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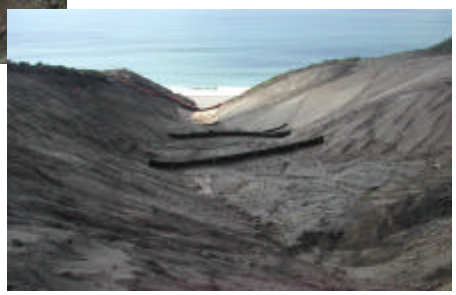
CONSTRUCTION COMPLETION REPORT
BAKER BEACH DISTURBED AREAS 3 AND 4



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August 2005

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Dorinda Shipman, P.G., C.HG., Treadwell & Rollo, Inc.

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CONSTRUCTION QUALITY ASSURANCE CERTIFICATION
BAKER BEACH DISTURBED AREAS 3 AND 4

The construction quality assurance (CQA) activities discussed and documented in this Construction Completion Report for Baker Beach Disturbed Areas 3 and 4 have been performed by and under the supervision of the CQA Officer, Mr. Wendell L. Minshew, P.E., a civil engineer registered in the State of California. The information presented in this report is accurate to the best of the CQA Officer's knowledge.

Based on the monitoring observations and test results presented in this report, the CQA program has been implemented as proposed and the site remediation activities have been constructed in compliance with the Remedial Action Plan, Construction Plans and Specifications, approved design changes, good engineering and construction practices, and the applicable requirements of Title 22, CCR Section 66264.19.

Wendell L. Minshew, P.E., Minshew Engineering
Project CQA Officer

August 23, 2005

Date

CONSTRUCTION COMPLETION REPORT
BAKER BEACH DISTURBED AREAS 3 AND 4

TABLE OF CONTENTS

LIST OF ACRONYMS AND ABBREVIATIONS ix
1.0 INTRODUCTION 1
1.1 Background 1
1.1.1 Site Background 2
1.2 Remedial Action Requirements 5
2.0 REMEDIAL ACTION APPROACH 7
2.1 Cleanup Levels 7
2.2 COCs 7
2.3 Sampling and Analyses 8
2.3.1 Soil Sampling and Analyses 8
2.3.2 Groundwater and Surface Water Sampling and Analyses 10
2.4 Data Validation 11
2.4.1 Data Validation Parameters and Data Qualifiers 11
2.4.2 Overall Data Quality 12
3.0 EXCAVATION ACTIVITIES 13
3.1 General Activities 13
3.1.1 Health & Safety 13
3.1.2 Site-Specific Training 14
3.1.3 Surveying 14
3.1.4 Site Earth Moving 15
3.1.5 Stockpiling, Loading, and Disposal 15
3.1.6 Decontamination 17
3.1.7 Dust Control 17
3.1.8 Construction Erosion Control and Storm Water Pollution Inspections 17
3.2 Baker Beach Disturbed Area 3 18
3.2.1 BBDA 3 Pre-excavation Activities 18
3.2.2 BBDA 3 Waste Fill Excavation and Segregation 19
3.2.3 Historical Battery Crosby Road Documentation 21
3.2.4 BBDA 3 Chemical Analysis and Results 23
3.2.5 BBDA 3 Waste Stream Disposal 32
3.2.6 BBDA 3 Surface Restoration 34

TABLE OF CONTENTS
(Continued)

3.3 Baker Beach Disturbed Area 4 35
3.3.1 BBDA 4 Excavation and Segregation 36
3.3.2 BBDA 4 Chemical Analysis and Results 36
3.3.3 BBDA 4 Waste Stream Disposal 39
3.3.4 BBDA 4 Surface Restoration 40
4.0 BBDA 3 GROUNDWATER AND SURFACE WATER MONITORING 42
4.1 BBDA 3 Geology and Hydrogeology 42
4.2 Monitoring Well and Surface Water Monitoring Point Installation, Development, and Sampling 43
4.3 Groundwater and Surface Water Sampling 45
4.3.1 Groundwater Level Measurements and Interpretation 46
4.3.2 Monitoring Well Purging and Sampling 46
4.3.3 Groundwater Analytical Program 47
4.4 Groundwater Analytical Results 47
4.4.1 Dissolved Oxygen and General Chemistry Results 48
4.4.2 TPH Results 48
4.4.3 Total and Dissolved Metals Results 48
4.4.4 BBDA 3 Groundwater Sample Data Validation 49
5.0 VARIANCES FROM WORK PLAN 51
5.1 Increase in Excavation Volume at BBDA 3 and 4 51
5.2 Actual Limits of Waste Differ from Limits Indicated in RAP 51
5.3 BBDA 3 Combined Perimeter and Grid Sampling Locations 51
5.4 Additional Sampling Requested by DTSC 52
5.5 Erosion Control Measures and Re-vegetation at BBDA 3 52
5.6 Slope Stability Monitoring for Lincoln Boulevard 53
5.7 Steeper Post-Excavation Slopes at BBDA 3 53
5.8 Changes to the BBDA 3 Groundwater and Surface Water Monitoring Network 53
5.9 Stockpiling of Excavated Material from BBDA 4 54
6.0 SUMMARY AND CONCLUSIONS 55
7.0 REFERENCES 56

TABLES

FIGURES

PHOTOGRAPHS

APPENDICES

LIST OF TABLES

Table 1A	Soil Cleanup Levels BBDA 3
Table 1B	Groundwater and Surface Water Cleanup Levels BBDA 3
Table 2	Soil Cleanup Levels BBDA 4
Table 3A	Confirmation Soil Sampling and Analysis Program BBDA 3
Table 3B	Confirmation Soil Sampling and Analysis Program BBDA 4
Table 4	Construction Completion Timeline BBDAs 3 and 4
Table 5	Slope Stability Monitoring Survey Data BBDA 3
Table 6	Summary of Metals Results in Soil Confirmation Samples BBDA 3
Table 7	Summary OCP Results in Soil Confirmation Samples BBDA 3
Table 8	Summary of PCB Results in Soil Confirmation Samples BBDA 3
Table 9	Remaining Metals Exceedances Rationale BBDA 3
Table 10	Summary of TPH Results in Soil Confirmation Samples BBDA 3
Table 11	Summary of SVOC and VOC Results in Soil Confirmation Samples BBDA 3
Table 12	Summary of Chlorinated Herbicide Results in Soil Confirmation Samples BBDA 3
Table 13	Trip Blank Sample Results BBDAs 3 and 4
Table 14	Summary of Waste Streams and Quantities BBDAs 3 and 4
Table 15	Summary of Metals Results in Soil Confirmation Samples BBDA 4
Table 16	Summary of OCP Results in Soil Confirmation Samples BBDA 4
Table 17	Summary of PCB and TPH Results in Soil Confirmation Samples BBDA 4
Table 18	Summary of SVOC and VOC Results in Soil Confirmation Samples BBDA 4
Table 19	Summary of Chlorinated Herbicide Results in Soil Confirmation Samples BBDA 4

LIST OF TABLES
(Continued)

Table 20	Monitoring Well, Piezometer, and Fixed Water Monitoring Point Construction Details BBDA 3
Table 21	Results of Dissolved Oxygen Measurements and General Chemistry Analyses BBDA 3
Table 22	Results of OCP and VOC Analyses BBDA 3
Table 23	Results of TPH Analyses BBDA 3
Table 24	Results of Total and Dissolved Metals Analyses BBDA 3
Table A-1	Sample Delivery Group Index, Confirmation Soil Sampling Program Analytical Data, BBDAs 3 and 4
Table A-2	Sample Delivery Group Index, Surface Water and Groundwater Data, BBDA 3
Table F-1	Waste Characterization Analytical Results BBDAs 3 and 4
Table F-2	Submittal/Sample Delivery Group Index, Waste Characterization Data, BBDAs 3 and 4
Table G-1	Calculation of 95% Upper Confidence Limits for Nickel, Selenium, and Vanadium Confirmation Sampling Data, BBDA 3
Table J-1	Sampling Schedule Fourth Quarter 2004, BBDA 3

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	BBDAs 3 and 4 Site Vicinity Map
Figure 3	BBDA 3 Pre-Excavation Topography and Sampling Grid
Figure 4	BBDA 3 Post-Excavation Topography and Confirmation Sampling Locations
Figure 5	BBDA 3 Post-Construction Topography and Groundwater and Surface Water Monitoring Network
Figure 6	BBDA 4 Pre-Excavation Topography
Figure 7	BBDA 4 Final Topography and Confirmation Sampling Locations
Figure 8	BBDA 3 Post-Construction Topography and Volume Survey
Figure 9	BBDA 4 Post-Construction Topography and Volume Survey
Figure 10	BBDA 3 Historical Battery Crosby Road Investigation
Figure 11	BBDA 3 Generalized Geologic Cross Section A-A’
Figure 12	BBDA 3 Site Plan and 13 December 2004 Groundwater Elevation Map
Figure F-1	BBDA 3 In-Situ Waste Profile Sample Locations
Figure G-1A	Histogram of Nickel Results, BBDA 3
Figure G-1B	Histogram of Selenium Results, BBDA 3
Figure G-1C	Histogram of Vanadium Results, BBDA 3

LIST OF PHOTOGRAPHS

Photo 1	Caterpillar 330 Excavator
Photo 2	Caterpillar Long Reach Excavator
Photo 3	Caterpillar Articulated Truck
Photo 4	Bowley Road Truck Staging Area
Photo 5	Traffic Control on Lincoln Boulevard
Photo 6	Trucks Exiting BBDA 3 onto Lincoln Boulevard
Photo 7	Truck Decontamination Knock-off Plates
Photo 8	Dust Control Operations at BBDA 3
Photo 9	Temporary Construction Erosion Controls at BBDA 3
Photo 10	Lincoln Boulevard Following Daily Cleanup
Photo 11	BBDA 3 Tree Cutting Prior to Excavation
Photo 12	Location of Temporary Piezometer BB3PZ100A
Photo 13	Slope Stability Surveyors on Lincoln Boulevard
Photo 14	Tree Stumps and Green Waste Removal Prior to BBDA 3 Excavation
Photo 15	BBDA 3 Excavation
Photo 16	BBDA 3 Demolition Debris Fill
Photo 17	Breaking Concrete During Excavation Activities
Photo 18	Typical Tires Recovered from Excavation
Photo 19	Historical Battery Crosby Road Exploration Trenches
Photo 20	Battery Crosby Road Retaining Wall Structure
Photo 21	Soil Sampling Following Excavation Activities
Photo 22	Overexcavation at BBDA 3
Photo 23	BBDA 3 Ravine Following Excavation
Photo 24	Final Erosion Control Sand Bag Check Dams
Photo 25	Seep Diversion Pipe
Photo 26	Diversion Pipe Outfall

LIST OF PHOTOGRAPHS
(continued)

Photo 27 Willow Mattress Installation

Photo 28 BBDA 4 Excavation

Photo 29 BBDA 4 Fill Stockpile at BBDA 3

Photo 30 BBDA 4 Fill

Photo 31 BBDA 4 Erosion Control Set up

Photo 32 Installation of Monitoring Well BB3GW100

Photo 33 BBDA 3 Fixed Water Monitoring Point BB3SW100

LIST OF APPENDICES

Appendix A	Laboratory Reports for Soil Confirmation Samples and Groundwater and Surface Water Samples (CD 1)
Appendix B	Data Validation Reports for Soil Confirmation Samples and Groundwater and Surface Water Samples
Appendix C	Construction Daily Report Forms (CD 2)
Appendix D	Storm Water Inspection Forms
Appendix E	*Results of the Baker Beach Disturbed Areas 3 and 4 Bird Survey*
Appendix F	Waste Characterization Sample Results and Laboratory Reports (CD 3)
Appendix G	95% UCL Calculations for Nickel, Selenium, and Vanadium
Appendix H	Trucking and Hazardous Waste Manifests (CD 4)
Appendix I	Boring Logs and Well Construction Details
Appendix J	Monitoring Well Development and Groundwater Sampling Forms
Appendix K	*Slope Stability Evaluation of Final Slope Configurations, Baker Beach Disturbed Area 3*

CONSTRUCTION COMPLETION REPORT
BAKER BEACH DISTURBED AREAS 3 AND 4

List of Acronyms and Abbreviations

Altamont	Waste Management Altamont Landfill
ARAR	applicable or relevant and appropriate requirement
Army	United States Army
BBDA 3	Baker Beach Disturbed Area 3
BBDA 4	Baker Beach Disturbed Area 4
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
Buttonwillow	Buttonwillow Landfill
C&T	Curtis & Tompkins, Ltd.
CalHaz	Class I California Hazardous Waste
Cleanup Levels Document	*Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water*
CCV	Continuing Calibration Verification
CL	cleanup level
COCs	contaminants of concern
CQA	Construction Quality Assurance
cy	cubic yards
4,4'-DDT	1,1,1-trichloro-2,2-di(4-chlorophenyl)ethene
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
EKI	Erler & Kalinowski, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act

List of Acronyms and Abbreviations
(continued)

GC/MS	Gas Chromatograph/Mass Spectrometry
GGNRA	Golden Gate National Recreation Area
GMPA	General Management Plan Amendment
GPS	global positioning system
Gregg Drilling	Gregg Drilling and Testing, Inc.
HASP	Health & Safety Plan
ICP	inductively coupled plasma
LCS	Laboratory Control Samples
MCL	Maximum Contaminant Level
MCPP	2-(2-Methyl-4-chlorophenoxy) propionic acid
MDL	Method Detection Limit
mg/kg	milligrams per kilogram
MOA	Memorandum of Agreement
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAD27	North American Datum of 1927
NGVD29	North American Geodetic Vertical Datum of 1929
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
OCPs	organochlorine pesticides
Ox Mountain	BFI Ox Mountain Sanitary Landfill
PCB	polychlorinated biphenyl
PEM	Performance Evaluation Mix
Perf-Ex	Performance Excavators, Inc.
PLLW	Presidio Lower Low Water datum of 1907
Plans and Specs	*Construction Plans and Specifications, Baker Beach Disturbed Areas 3 and 4*
Presidio	The Presidio of San Francisco

List of Acronyms and Abbreviations
(continued)

PQL	Practical Quantitation Limit
PVC	polyvinyl chloride
QAPP	*Presidio-wide Quality Assurance Project Plan*
QC	quality control
RAP	*Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4*
RCRA	Federal Resource Conservation and Recovery Act
RI	Remedial Investigation
RME	Reasonable Maximum Exposure
RPD	relative percent difference
RWQCB	California Regional Water Quality Control Board
RW Davis	R.W. Davis & Associates
SOP	Standard Operating Procedure
STLC	soluble threshold limit concentration
SVOC	semi-volatile organic compound
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	California Environmental Protection Agency, State Water Resources Control Board
TBCs	"to be considered"
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TPH	total petroleum hydrocarbons
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHfo	total petroleum hydrocarbons as fuel oil

List of Acronyms and Abbreviations
(continued)

Treadwell & Rollo	Treadwell & Rollo, Inc.
Trust	The Presidio Trust
Trust Act	Section 103 of the Omnibus Parks and Public Lands Management Act of 1996, Public Law 104-333, 110 Stat. 4097
TTLC	total threshold limit concentrations
UCL	upper confidence limit
μg/kg	micrograms per kilogram
μg/L	micrograms per liter
UXO	unexploded ordnance
VOCs	volatile organic compounds
WET	California Waste Extraction Test
Work Plan	*Work Plan to Implement the Remedial Action Plan for Baker Beach Disturbed Areas 3 and 4*

1.0 INTRODUCTION

On behalf of The Presidio Trust (Trust), Treadwell & Rollo, Inc. (Treadwell & Rollo) has prepared this report, which summarizes the remedial action activities performed at former Baker Beach Disturbed Area 3 (BBDA 3) and Baker Beach Disturbed Area 4 (BBDA 4) located in the Presidio of San Francisco, California (Figure 1). The remedial action consisted of excavating and removing non-native waste fill materials (artificial fill soils, tree stumps and wood waste, construction debris, and municipal waste), disposing of the waste fill material, and preparing the resulting slopes for re-vegetation planting.

The work was performed in accordance with the *Work Plan to Implement the Remedial Action Plan for Baker Beach Disturbed Areas 3 and 4* (Work Plan) (Treadwell & Rollo, 2004d), which outlines the technical scope of work required to implement the recommended remedial alternative for BBDA 3 and BBDA 4 described in the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4* (RAP) (Treadwell & Rollo, 2004a). *The Construction Plans and Specifications* (Minshew Engineering and Treadwell & Rollo, 2004), which included the *Construction Quality Assurance (CQA) Plan* for the project, were prepared concurrently with the Work Plan and the *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004b). The remediation documents were reviewed and approved by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) and the California Regional Water Quality Control Board (RWQCB).

1.1 Background

The Presidio of San Francisco (Presidio) is located in the City of San Francisco, at the northern tip of the San Francisco peninsula. The Presidio occupies approximately 1,480 acres and is bounded by San Francisco Bay on the north and the Pacific Ocean on the west. Densely populated residential areas of San Francisco border the Presidio to the south and east.

The Presidio was a United States Army (Army) installation from 1848 through 1994, serving as a mobilization and embarkation point during several overseas conflicts, a medical debarkation center, and a coastal defense for the San Francisco Bay area. Industrial operations formerly performed at the Presidio were associated with maintenance and repair of vehicles, aircraft and base facilities. The Presidio also contains landfills used by the Army for the disposal of municipal waste and construction debris.

In December 1988, the U.S. Secretary of Defense's Commission on Base Realignments and Closure recommended closure of the Presidio. Under Public Law 92-589, the Presidio was transferred to the National Park Service (NPS) on October 1, 1994 and became part of the Golden Gate National Recreation Area (GGNRA). In accordance with the Base Realignments and Closure Act, the Army initiated environmental studies in conjunction with the transfer of the Presidio to the NPS. The NPS operated the Presidio between 1994 and 1998. In 1996,

Section 103 of the Omnibus Parks and Public Lands Management Act of 1996, Public Law 104-333, 110 Stat. 4097 (Trust Act) created the Presidio Trust. The Trust assumed responsibility for managing the leasing, maintenance, rehabilitation, and improvement of Area B (the non-coastal portions of the Presidio) in 1998. The NPS retained administrative responsibility for Area A of the Presidio (the coastal portions of the Presidio). Figure 1 indicates the locations of Area A and Area B of the Presidio. As shown on Figure 1, BBDA 3 and BBDA 4 are both located within Area A.

On 24 May 1999, the Army, the Trust, and NPS entered into a Memorandum of Agreement (MOA). Pursuant to this MOA, the Army delegated to the Trust its authority and responsibility for the remediation of contamination at the Presidio (both Areas A and B).

BBDA 3 and BBDA 4 are located in Area A of the Presidio, and therefore are subject to land uses established by the General Management Plan Amendment (GMPA) (NPS, 1994). Based on principles contained in the GMPA, land use at both BBDA 3 and BBDA 4 is designated as open-space recreational (Erler & Kalinowski, Inc.(EKI), 2003). BBDA 3 and BBDA 4 are located within the Coastal Bluffs planning zone of the GMPA. Federally endangered and rare plant species are located in the serpentinite outcrops east of Battery Crosby (Figure 2). Therefore, as presented in the RAP, land uses for both BBDA 3 and BBDA 4 are open-space recreational and ecological special status.

The “clean closure” remedy selected in the RAP and implemented at BBDA 3 and BBDA 4 is intended to be the final, permanent remedy for these areas. The RAP was prepared in consultation with the stakeholders, including:

- The Presidio Trust;
- Department of the Interior, NPS;
- DTSC;
- RWQCB;
- Community members of the Restoration Advisory Board; and
- Public comment.

1.1.1 Site Background

This section presents the site physical settings and a brief summary of previous investigation results. A detailed discussion of site history and previous investigation results is presented in the RAP (Treadwell & Rollo, 2004a).

1.1.1.1 Baker Beach Disturbed Area 3

The area in the vicinity of BBDA 3 and BBDA 4 is a steeply sloping bluff with a narrow beach (Baker Beach) at its base. Surface drainage in the area is toward the west to the Pacific Ocean. Vegetation in the area consists of grasses, shrubs, and trees.

BBDA 3 is located along the western edge of the Presidio within the ravine south of Battery Crosby (Figure 2). Battery Crosby is north of the site, and, prior to remedial activities, the access road for the battery off Lincoln Boulevard bisected the site (Figure 3). The material in BBDA 3 is composed primarily of soil and debris fill containing concrete, asphalt, and metal debris. Buttress fill material, consisting mainly of sand (fill sand) was initially placed in BBDA 3 along Lincoln Boulevard and along the access road to Battery Crosby (Dames & Moore, 1997). As presented in the RAP, based on initial review of aerial photographs, BBDA 3 received fill material intermittently between 1948 and 1973. However, recently identified areal photographs show additional dumping of debris until at least 1979 (California Coastal Records Project, 2005).

BBDA 3 lies at the boundary of two geologic regimes. The northern portion is predominantly Franciscan Formation overlain by landslide deposits on the bluff faces, with Colma and Dune Sand at the bluff tops. South of BBDA 3, the bluffs are covered almost entirely by Quaternary dune sand (Schlocker, 1974). BBDA 3 is located near the southern boundary of the Coastal Bluffs Groundwater Basin (Figure 2).

Geologic data were initially obtained from shallow hand-augured borings during the Army's Remedial Investigation (RI) and later from additional, deeper borings as part of an additional investigation by the Trust (EKI, 2000). Additional physical and chemical characterization of the waste was performed by the Trust in 2003 by means of a test pit program documented in *Technical Memorandum: Historical Battery Crosby Road and Lead Exploratory Test Pit Excavation Observations and Results* (Treadwell & Rollo, 2004e). Waste fill at BBDA 3 was estimated in the RAP to vary in thickness from less than one foot to a maximum depth of approximately 20 feet, and the volume of fill material in BBDA 3 prior to remedial excavation was estimated to be 33,000 cubic yards (cy).

Analytical results for soil testing associated with previous investigations are presented in the RAP. In general, these results indicated that primary chemicals detected within BBDA 3 included metals, pesticides, and polychlorinated biphenyls (PCBs).

An ephemeral seep flowed at the bottom of the ravine below BBDA 3. Historical surface water monitoring data for BBDA 3 are presented in the RAP. In May 2000, the Trust collected water samples from the shallow subsurface of the area and analyzed the samples for inorganics, total petroleum hydrocarbons (TPH) as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene, and xylenes (BTEX), volatile organic compounds

(VOCs), organochlorine pesticides (OCPs), PCBs, and chlorinated herbicides. One of the seep samples was found to contain TPHd at 77 micrograms per liter (μg/L) (EKI, 2000).

Prior to excavation activities and at the request of DTSC, the Trust performed a slope stability analysis at BBDA 3 in early 2004 to determine whether removal of the waste fill material at the site might undermine the structural fill buttress supporting Lincoln Boulevard east of Battery Crosby Road. The findings of this investigation are documented in the *Slope Stability Evaluation Report, Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004b). As recommended in that report, the stability of the slope supporting Lincoln Boulevard was monitored during excavation of waste materials at BBDA 3 as described in Section 3.2.1.

A pair of temporary piezometers were installed and monitored as part of the slope stability evaluation. Groundwater was found to be present in dune sand and weathered serpentinite bedrock (Treadwell & Rollo, 2004b). Surface water drainage and groundwater flow appears to follow the general topographic trend, to the west and toward the Pacific Ocean. As documented in the RAP, it was anticipated that removal of the fill material could alter the location(s) of the freshwater seep(s) located at the western boundary of BBDA 3.

1.1.1.2 Baker Beach Disturbed Area 4

The material in BBDA 4 is composed primarily of artificial fill containing concrete rubble and masonry debris that was used to stabilize a portion of Lincoln Boulevard. Fill material was apparently placed in BBDA 4 until 1955. Some erosion of the fill material downslope into the drainage channel has apparently occurred since then (EKI, 2003).

BBDA 4 is located in the northwestern corner of the Lobos Groundwater Basin (Figure 2). BBDA 4 is covered entirely by Quaternary dune sand (Schlocker, 1974). At BBDA 4, artificial fill was previously estimated to range between 1 and 5 feet in thickness. The estimated volume of impacted fill material in BBDA 4 prior to remedial excavation was approximately 180 cy.

Analytical results for BBDA 4 soil testing summarized in the RAP indicate that primary chemicals detected within BBDA 4 included metals, pesticides, and TPHd.

No groundwater was encountered in any of the Army or Trust borings at BBDA 4 and no freshwater seeps are present (EKI, 2003). Surface water drainage and groundwater flow is assumed to follow the general topographic trend, to the west and toward the Pacific Ocean.

No surface water or groundwater samples have been collected at BBDA 4 because soil sampling results and hydrogeologic conditions at the site were determined not to warrant further groundwater investigation or monitoring.

1.2 Remedial Action Requirements

The RAP was prepared and implemented in accordance with the terms of the Consent Agreement between the Trust, DTSC, and NPS (DTSC, Trust, and NPS, 1999).

As outlined in the RAP, the remedial action objectives for the remedy to be conducted at BBDA 3 and BBDA 4 were:

- Protection of human health and the environment;
- Cost-effective cleanup of the sites consistent with their intended reuse for open space, recreation, and protection of special status species;
- Consistency of the selected remedial alternative for each site with the overall transformation of the Presidio into a national park;
- Recycling or reuse of landfilled materials from BBDA 3 to the extent practicable;
- Compliance with applicable or relevant and appropriate requirements (ARARs) and "to be considered" requirements (TBCs); and
- Preference for permanent ("clean closure") remedies wherever practicable, cost-effective, and consistent with future land use.

Excavation, recycling, and off-site disposal of waste fill and contaminated soil was the selected remedial alternative to be implemented at BBDAs 3 and 4, with three years of post-closure groundwater and surface water monitoring at BBDA 3. In order for the remedial action for the site to be achieved and to comply with ARARs, the remediation had to meet the applicable cleanup levels developed for the contaminants of concern (COCs). ARARs are laws, requirements, or other cleanup standards that pertain to the chemical release at a site. The RAP provides a detailed explanation of the process used to develop cleanup levels for the two sites. For any given site, the applicable cleanup level incorporates the planned human use (residential, recreational, or institutional), the predominant soil or sediment lithology, potential ecological species present (including the presence of special status species), regulatory requirements, and in limited cases, laboratory detection limits. Site-specific soil and groundwater cleanup levels for BBDA 3 and BBDA 4 are discussed in Section 2.0.

In accordance with the Work Plan and CQA Plan, confirmation sampling was performed to ensure that the material left in place meets applicable cleanup levels for each COC relative to the planned land uses and protection of ecological receptors (Tables 1A, 1B, and 2). During construction, if a particular confirmation sample result exceeded a soil cleanup level, one of the following occurred:

- Soil was excavated in the area of elevated concentration(s) and resampled in the newly excavated area in accordance with the sampling strategy in the RAP and outlined in Section 3.0 of this document; or

- The 95% upper confidence limit (UCL) calculation was performed in cases where cleanup goals could not be achieved through further excavation and only for limited metals exceedances (see Section 3.2.4.3).

Site excavation and soil confirmation sampling continued until the cleanup levels were achieved or remaining exceedances were determined to be within the 95% UCL. Confirmation sampling results are presented and discussed in detail in Section 3.0.

The vegetation restoration at both sites is continuing. To stabilize the slopes prior to the establishment of plant communities, temporary surface drainage and erosion control measures were required. Such measures included the installation of straw wattles, silt fences, erosion control mats, and, in the case of BBDA 3, sand bag check dams. Surface water pollution prevention measures were also implemented, including erosion control, as described in the *Storm Water Pollution Prevention Plan* (SWPPP), *Baker Beach Disturbed Areas 3 and 4* (Treadwell & Rollo, 2004c) and in accordance with the California Environmental Protection Agency, State Water Resources Control Board (SWRCB) general discharge permit (Water Quality Order 99-08-DWQ, National Pollutant Discharge Elimination System [NPDES] General Permit for Storm Water Discharges Associated with Construction Activity).

In accordance with the RAP and Work Plan, three years of post-closure groundwater monitoring are required under the selected remedial alternative for BBDA 3. Upon completion of the excavation and soil confirmation sampling, two groundwater monitoring wells, one piezometer, and three fixed water monitoring points were installed to enable monitoring of groundwater and surface water conditions at BBDA 3. The groundwater monitoring well, piezometer, and fixed water monitoring point sampling results for the initial sampling event are included in this document and presented in the *Semi-Annual Groundwater Monitoring Report, Third and Fourth Quarters 2004, Presidio-wide Groundwater Monitoring Program* (Treadwell & Rollo, 2005a). Subsequent sampling events will be documented in future Semi-Annual Groundwater Monitoring Reports.

2.0 REMEDIAL ACTION APPROACH

2.1 Cleanup Levels

Cleanup levels for native soils at BBDA 3 and BBDA 4 were established in the RAP and are shown in Tables 1A, 1B, and 2 of this document. The cleanup levels for soil, groundwater, and surface water at BBDA 3 and BBDA 4 presented in the RAP are based on the process presented in the *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water* (Cleanup Levels Document) (EKI, 2002). The applicable cleanup levels incorporate the planned human land use (recreational), the predominant soil or sediment lithology, potential ecological species present (including the presence of special status species), and RWQCB Order R2-2003-0080 requirements (RWQCB, 2003).

BBDA 3 and BBDA 4 standards are generally based on cleanup levels that are protective of human health (recreational use) or of special status species ecological receptors, whichever standard is more stringent. However, because the applicable ecological cleanup levels are generally quite stringent, the RAP identified the residential (as opposed to the slightly less stringent recreational) criteria as the "target" cleanup levels for the protection of human health. In the event that post-excavation confirmation sampling had revealed that residential cleanup levels could not be met, the recreational cleanup levels would have applied, and appropriate land use controls would have been developed and implemented.

During the course of the remedial fieldwork at BBDA 3, it became necessary to collect confirmation samples in materials not anticipated during the preparation of the RAP. The RAP assumed that all confirmation samples would be collected in native soil, which was anticipated to include beach/dune sand, Colma formation soils, and serpentinite lithologies. In actuality, samples were also collected from material classified as "engineered road fill" and from a road bed constructed of imported (non-native) chert. For the engineered road fill, laboratory analytical data for metals were compared to the cleanup criteria for serpentinite because serpentinite fragments were present in these samples. For the roadbed chert samples, applicable cleanup levels were determined using the Cleanup Levels Document cleanup criteria for chert. These cleanup levels are also included in Table 1A.

2.2 COCs

As presented in the RAP, the chemicals retained as COCs in soil at BBDA 3 were cadmium, cobalt, lead, zinc, 4,4'-DDT (1,1,1-trichloro-2,2-di(4-chlorophenyl)ethane), chlordane (including chlordane, alpha-chlordane, and gamma-chlordane), dieldrin, and PCB1254. Although no compounds were identified as COCs for groundwater at BBDA 3, the RAP committed to monitoring groundwater for potential impacts from metals and TPH (including diesel, gasoline, and fuel oil components).

Lead, zinc, 4,4'-DDT and chlordane (including chlordane and gamma-chlordane) are the COCs for BBDA 4 soil identified in the RAP. No groundwater COCs were identified in the RAP for BBDA 4.

2.3 Sampling and Analyses

Soil confirmation samples were collected to ensure that material left in place at BBDAs 3 and 4 meets the applicable site cleanup levels.

2.3.1 Soil Sampling and Analyses

In accordance with the Work Plan, soil confirmation samples were collected from the bottom of the excavations on a site-specific grid spacing. Perimeter samples were collected at a rate of one per approximately every 75 linear feet. Because the excavations were situated in ravines, generally no excavation "sidewalls" existed. All sampling was performed in accordance with the RAP, CQA Plan, and *Presidio-wide Quality Assurance Project Plan and Sampling and Analysis Plan* (QAPP) (Tetra Tech EM, Inc., 2001). Sample designations refer to the site, the sequential soil sample number, and the sample depth. For example, sample BB3EX100[0.5] refers to BBDA 3, first excavation sample location, collected from 0.0 to 0.5 feet below ground surface (bgs), and BB4EX104[0.5] refers to BBDA 4, fifth excavation sample location, collected from 0.0 to 0.5 feet bgs. Table 3A and 3B present the confirmation soil sampling and analyses performed during remedial activities at BBDA 3 and BBDA 4, respectively.

Soil confirmation samples were collected in one of two ways. The majority of the samples were collected by pushing a new 2-inch-diameter by 6-inch-long, stainless steel sample tube into the native sand by hand. The filled sample tube was retrieved and sealed with Teflon™, capped, labeled, and placed on ice in an insulated container. The second method of sample collection was used to sample hard materials such as the engineered fill or chert roadway material. As outlined in the Trust's Standard Operating Procedure (SOP) No. 001, Soil Sampling, these samples were collected by pushing a 2-inch-diameter by 6-inch-long, stainless steel, sample tube into the material excavated in the excavator bucket. The sample tube was then sealed and labeled as noted above and placed on ice. Duplicate soil samples were collected by pushing a new sample tube into the material adjacent to the prime sample location or from the same excavator bucket, depending upon the sampling method used. All samples were delivered to Curtis & Tompkins, Ltd. (C&T) in Berkeley, California, a California-certified laboratory, under chain-of-custody protocol for analysis.

In accordance with the RAP, all soil confirmation samples for BBDA 3 were analyzed for:

- Metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc) by U.S. Environmental Protection Agency (EPA) Method 6010B;

- OCPs by EPA Method 8081; and
- PCBs by EPA Method 8082.

Additionally, ten percent of all samples collected were analyzed for a broader range of compounds to protect against uncertainties resulting from the limited site characterization. The expanded analytical suite included:

- Mercury by EPA Method 7471;
- VOCs by EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C;
- Chlorinated herbicides by EPA Method 8150; and
- TPHd (carbon range C_{12}-C_{24}) and total petroleum hydrocarbons as fuel oil (TPHfo) (carbon range C_{24}-C_{36}) by EPA Method 8015 modified, prepared using silica gel cleanup (EPA Method SW3630A).

All soil confirmation samples at BBDA 4 were analyzed for:

- Metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc) by EPA Method 6010B; and
- OCPs by EPA Method 8081.

Additionally, ten percent of all samples collected were analyzed for a broader range of compounds to protect against uncertainties resulting from the limited site characterization. The expanded analytical suite included:

- Mercury by EPA Method 7471;
- VOCs by EPA Method 8260B;
- SVOCs by EPA Method 8270C;
- PCBs by EPA Method 8082;
- Chlorinated herbicides by EPA Method 8150; and
- TPHd (carbon range C_{12}-C_{24}) and TPHfo (carbon range C_{24}-C_{36}) by EPA Method 8015 modified, prepared using silica gel clean-up (EPA Method SW3630A).

To fulfill the requirements of the QAPP, duplicate soil confirmation samples were collected and analyzed at a rate of ten percent. The laboratory provided EPA Level III data report packages with ten percent at Level IV documentation. The analytical results of soil confirmation samples were validated in a manner consistent with the QAPP for parameters such as accuracy, precision, and representativeness as discussed Section 2.4.

2.3.2 Groundwater and Surface Water Sampling and Analyses

Two groundwater monitoring wells, one piezometer, and three fixed water monitoring points were installed at BBDA 3. In accordance with the RAP, wells or monitoring points were not installed at BBDA 4. Groundwater monitoring and sampling at BBDA 3 was conducted as part of the Presidio-wide Groundwater Monitoring Program for the Fourth Quarter 2004. Groundwater level monitoring was performed at BBDA 3 on 13 December 2004, groundwater sampling was conducted on 14 December 2004, and surface water sampling on 16 and 17 December 2004. All sampling was performed in accordance with the QAPP. Sampling methods and analytical results are presented in Section 4.0.

All samples were delivered to Curtis & Tompkins, Ltd. (C&T) in Berkeley, California, a California-certified laboratory, under chain-of-custody protocol for analysis.

Groundwater sample analysis was performed in accordance with the RAP and included:

- TPHg (carbon range C_7-C_{12}), TPHd (carbon range C_{12}-C_{24}) and TPHfo (carbon range C_{24}-C_{36}) by EPA Method 8015 modified, prepared using silica gel clean-up (EPA Method SW3630A);
- 23 Metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc) by EPA Method 6010B;
- Mercury by EPA Method 7470;
- General Chemistry Analyses including: total alkalinity, bicarbonate, chloride, fluoride, nitrogen as nitrate, nitrogen as nitrite, sulfate, and Total Dissolved Solids (TDS) by EPA Methods 300.0, 310.1, and 160.1; and
- Dissolved oxygen by direct field measurement.

To fulfill the requirements of the QAPP, duplicate groundwater samples were collected and analyzed at a rate of ten percent. The laboratory provided EPA Level III data report packages with ten percent at Level IV documentation. The analytical results of groundwater samples were validated in a manner consistent with the QAPP for parameters such as accuracy, precision, and representativeness as discussed Section 2.4.

2.4 Data Validation

2.4.1 Data Validation Parameters and Data Qualifiers

DataVal of San Rafael, California, reviewed both the electronic data and paper laboratory reports for the soil confirmation samples and groundwater samples, which are included in Appendix A. The data validation reports for soil and groundwater samples are included in Appendix B. The report includes an evaluation of the relative percent differences (RPDs) for the duplicate samples as well as the following quality control (QC) data, as applicable, for each analytical method.

- Reporting Limits
- Holding Times
- Target Blanks
- Gas Chromatograph/Mass Spectrometry (GC/MS) Equipment Tunes
- Initial Equipment Calibration
- Continuing Calibration Verification (CCV) Standards
- Performance Evaluation Mix (PEM) Standards
- Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
- Laboratory Control Samples (LCS)
- Inductively coupled plasma (ICP) interference check standards
- ICP serial dilutions
- Compound identification and quantitation
- Field duplicates
- Surrogate Recoveries
- Internal Standards

The following data validation qualifiers used by DataVal and shown in the tables in this report are those recommended in the October 1999 document titled *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. A minus sign (-) indicates that the numerical value has a low bias. A plus sign (+) indicates that the numerical value has a high bias.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

2.4.2 Overall Data Quality

Data validation of Level III and Level IV laboratory data packages was performed according to the project-specific guidelines. The data validation process did not result in any soil or groundwater data being rejected, and the data as a whole are usable as reported with added qualifiers. Reporting limits for all soils were raised due to dry weight correction. Any problem areas in the data, such as elevated reporting limits and added data qualifiers, for each analysis are presented in Section 3.2.4.4 for BBDA 3 soil, Section 3.3.2.4 for BBDA 4 soil, and Section 4.4.4 for BBDA 3 groundwater, respectively.

3.0 EXCAVATION ACTIVITIES

With the exceptions noted in Section 5.0, the remedial excavation activities were conducted in general accordance with the Work Plan and Construction Plan and Specifications and as requested by the DTSC and RWQCB. The soil excavation activities at the two sites were performed within the same timeframe. BBDA 3 excavation activities were generally conducted between July and December 2004. BBDA 4 activities began in late September and were completed in early October 2004. Following the excavation activities at BBDA 3, groundwater monitoring wells and fixed water monitoring points were installed and quarterly groundwater monitoring began. Table 4 presents a timeline for the BBDA 3 and BBDA 4 remedial activities, which are described in detail below. In compliance with the CQA Plan, all significant site activities were documented using a Construction Daily Report Form. All Construction Daily Report forms for the project, including activities at both BBDA 3 and BBDA 4, are presented in Appendix C.

3.1 General Activities

The Trust began tree removal at BBDA 3 in February 2004 and completed the tree removal in March 2004. No tree removal activities were necessary at BBDA 4 (Table 4).

The Trust contracted with Performance Excavators, Inc. (Perf-Ex) of San Rafael, California, to provide construction services including excavation and earthmoving activities. Treadwell & Rollo and Minshew Engineering performed construction oversight and Treadwell & Rollo performed all confirmation soil sampling. Notice to Proceed was issued by the Trust to Perf-Ex on 9 June 2004.

Prior to excavation activities, the Trust obtained excavation permits for the sites. The utility location survey was performed by the Trust Utilities Department.

A pre-construction meeting was held on 12 June 2004, and subsequently weekly Construction Meetings were conducted throughout the construction phase of the project to update the team regarding project status and scheduling. The meetings were generally attended by Trust, NPS, Treadwell & Rollo, Minshew Engineering, Inc., and Perf-Ex personnel. Additionally, as analytical data became available, weekly Data Meetings were held to review and discuss the available data. These meetings were attended by Trust, NPS, and Treadwell & Rollo personnel.

3.1.1 Health & Safety

On 5 May 2004, Perf-Ex issued their Health & Safety Plan (HASP) for the remediation project. The HASP included the information pertaining to potential and identified hazards and protocols necessary to protect worker and public safety during the project.

3.1.2 Site-Specific Training

As outlined in the Work Plan, prior to work at BBDAs 3 and 4, all site personnel attended a training session on the Endangered Species Act (ESA). On 28 June 2004, Mr. Lewis Stringer and Ms. Johanna Rahman with the NPS conducted an ESA training session, which included identification of local sensitive and endangered species, compliance with the ESA, and outlined the areas adjacent to the site as off-limits to site personnel during the work at the sites.

An additional training session was conducted by the Trust outlining the protocols for the discovery of unexploded ordnance (UXO) and working on a historically sensitive site. Mr. Jim Schiller with the Trust conducted an awareness training which presented the history of UXO discoveries at the Presidio, typical UXO, and protocols to follow if UXOs are found. Ms. Jennifer Yata, Trust Project Manager, conducted an awareness training that discussed the historical nature of the site, the sensitivity to preservation of historical artifacts or features, and the Trust and NPS focus on the identification and preservation of the structure and alignment of the historical (chert-surfaced) Battery Crosby Road.

3.1.3 Surveying

As outlined in the Work Plan and *Construction Plans and Specifications, Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco* (Plans and Specs) (Minshew Engineering and Treadwell & Rollo, 2004), surveying of BBDA 3 and BBDA 4 topography was to be conducted prior to excavation, after completion of excavation (including soil confirmation sample locations), and at the completion of the final slope grading. Perf-Ex contracted R.W. Davis & Associates (RW Davis), a California-licensed land surveyor to provide the surveying services. The surveys were performed in accordance with the specification requirements and the QAPP. The horizontal coordinates are based on North American Datum of 1927 (NAD27), Zone 3. The elevations are referenced to the North American Geodetic Vertical Datum of 1929 (NGVD29).

RW Davis performed the pre-excavation topography survey for both sites on 21 June 2004. The pre-construction survey included the establishment of a 75 feet by 75 feet grid across the sites which was used as a guide for the confirmation soil sample collection. The post-excavation survey, including soil confirmation sample locations and the topography following grading at BBDA 3, was conducted in stages throughout the project between 21 June and 29 November 2004. The survey was performed in stages in order to have the survey site grid intersection re-established following excavation and prior to confirmation soil sample collection. The post-excavation and final topography surveys were performed at BBDA 4 on 21 October 2004. The BBDA 3 survey results are presented on Figures 4, 5, and 8. The BBDA 4 survey results are presented on Figures 7 and 9. *[Upon completion of the reconstruction of Battery Crosby Road, the BBDA 3 site topography, including the new road alignment, will be resurveyed.]*

3.1.4 Site Earth Moving

Perf-Ex mobilized heavy equipment to BBDA 3 on 9 June 2004 and to BBDA 4 on 5 October 2004 to provide excavating, earth moving, and truck loading functions. The primary excavation activities were performed using a Caterpillar 330B L excavator, Caterpillar EL300B long reach excavator (50 feet reach), Caterpillar D7 XL dozer, Caterpillar 966G loader, and Caterpillar D350E articulated 6-wheel dump truck (Photos 1 through 3). At BBDA 3, excavation was performed primarily by visually identifying the waste fill/native material contact and removing the waste fill and placing it into stockpiles. At BBDA 3, the waste fill/native lithologic contacts were readily apparent. Excavating and grading of the waste fill continued until all of it was removed. At BBDA 4, the objective was to remove impacted fill, as identified in the RAP. Following the exposure of the native material (BBDA 3) or the removal of suspected impacted fill material (BBDA 4), the Treadwell & Rollo field geologist (CQA Monitor) collected soil confirmation samples for chemical analysis in accordance with the RAP and Work Plan. Waste fill material observations and the volumes removed from each site are presented in Sections 3.2.5 and 3.3.3. The soil confirmation sample collection and results are presented in Sections 3.2.4 and 3.3.2.

3.1.5 Stockpiling, Loading, and Disposal

Waste fill material excavation at each site was performed to allow the segregation of different types of waste. In general, waste was segregated into:

- wood waste (trees, tree stumps) for recycling;
- tires for recycling;
- vegetation and soil for Class III disposal;
- concrete for Class II disposal; and
- contaminated soil for Class III, Class II, and Class I disposal.

Prior to the start of excavation activities at each site (Sections 3.2.1 and 3.3.1), Perf-Ex excavated potholes to collect soil samples for waste profiling and to visually observe the thickness of waste and fill materials across the sites. Additionally, prior to disposal/recycling, Perf-Ex conducted waste characterization sampling of the stockpiled wastes to establish a waste profile of the material for the disposal facilities. The samples were submitted to Severn Trent Services, a California-certified laboratory, under chain-of-custody protocol. A discussion of the waste characterization sampling and results are presented in Sections 3.2 and 3.3.

The segregated stockpiled materials were loaded out by Perf-Ex and transported to the appropriate landfill/recycler by appropriately licensed trucking firms using end dump trucks. The incoming and outgoing truck traffic pattern was in accordance with the authorized haul routes presented in the RAP and Work Plan. The loading out was accomplished using Bowley

Road as the truck staging area (Photo 4). The trucks arrived at the Bowley Road staging area to complete waste manifest paperwork. The north bound shoulder of Lincoln Boulevard was used to locally stage trucks prior to being loaded. As space became available, the lead traffic control flagman contacted the truck coordinator at Bowley Road to send a truck to the site. Two trucks were generally staged on the north bound shoulder of Lincoln Boulevard. After a truck was loaded onsite, flagmen would halt traffic (vehicle, bicycle, and pedestrian) in both directions on Lincoln Boulevard (Photo 5). The loaded truck would depart the site and an empty staged truck on Lincoln Boulevard would enter the site. The departing truck would stage on the south bound shoulder of Lincoln Boulevard to secure tarps to cover its load (Photo 6). The loaded, tarped, and manifested truck would then proceed back to Bowley Road to turn around and exit the Presidio on US Highway 101. Bowley Road was closed, with the exception of San Francisco MUNI bus service, to the public during working hours when truck loading and hauling activities were taking place. The road was open at all other times, including evenings, weekends, and workdays on which no hauling activities occurred. This section of Bowley Road was periodically closed between 9 July 2004 and 18 January 2005. Public access to Baker Beach was maintained throughout the project.

Waste materials for this project were transported to the following facilities for the indicated type of disposition.

- West Contra Costa Landfill, Richmond, California – wood waste recycling;
- Wilabrator Cogeneration Plant, Anderson, California – green waste recycling;
- Marin County FireSafe Projects, Marin County, California – green waste recycling;
- Recovery West, Livermore, California - tire recycling;
- BFI Ox Mountain Sanitary Landfill (Ox Mountain), Half Moon Bay, California - vegetation and soil mix Class III disposal;
- Ox Mountain Landfill – Class III contaminated soil disposal;
- Waste Management Altamont Landfill (Altamont), Livermore, California - Class II contaminated soil disposal; and
- Buttonwillow Landfill (Buttonwillow), Buttonwillow, California - Class I contaminated soil disposal.

A description of the observed waste types and documented volumes in each category disposed at BBDA 3 and BBDA 4 are presented in Section 3.2 and Section 3.3, respectively.

3.1.6 Decontamination

During the excavation and stockpiling of waste at the site, truck decontamination steel plates were placed at BBDA 3. The plates acted as a drive-through decontaminating area. The plates allowed loose dirt and other material to fall off the trucks and tires prior to entering the roadways (Photo 7). No decontamination procedures were required at BBDA 4 because the trucks were loaded while stopped on Battery Chamberlin Road.

3.1.7 Dust Control

Dust control for the project was performed as needed in accordance with general construction practices. In general, fugitive dust conditions were not present at the sites because of the naturally damp coastal environment. However, during dryer, sunnier periods, application of a water spray was used to control dust at BBDAs 3 and 4 (Photo 8).

3.1.8 Construction Erosion Control and Storm Water Pollution Inspections

In accordance with the SWPPP (Treadwell & Rollo, 2004c) and Construction Plans and Specifications, erosion control measures and pollution prevention management practices were implemented during remedial site construction. During excavation and grading activities, temporary engineered physical controls (barrier silt fence and straw wattles) were placed to minimize the potential erosion of bare slopes and prevent offsite migration of sediment (Photo 9). Upon completion of site excavating and grading, all temporary erosion controls were removed, and final erosion control measures installed at BBDA 3 and BBDA 4. The final erosion control measures are discussed in Sections 3.2.6.2 and 3.3.4.2.

As outlined in the SWPPP, potential sources of storm water pollutants include fuels released from site heavy equipment, excavation and grading released sediments, and soil stockpile run-off. No fuel releases from site equipment associated with refueling or active equipment use were observed at either site during the remediation action. In addition to the barrier silt fences, active sweeping of the road surfaces was conducted throughout the remediation action to control potential migration of sediment from the sites via roadway storm water run-off (Photo 10). To prevent migration of sediment from soil stockpiles during inclement weather, earthen berms were constructed and the stockpiles were covered with plastic sheeting.

As required by the SWPPP, following major rain events, conditions at each site were inspected and documented in the Construction Daily Report Forms (Appendix C). Post-construction stormwater inspections have been documented using Stormwater Inspection Forms, as required by the SWPPP. In accordance with the SWPPP, post-construction stormwater inspections occur at a minimum, monthly, or following major rain events. Copies of the completed Storm Water Inspection Forms for BBDA 3 and BBDA 4 are included in Appendix D.

3.2 Baker Beach Disturbed Area 3

The following sections present the observations and details of the activities performed at BBDA 3 during the waste fill removal and site restoration.

3.2.1 BBDA 3 Pre-excavation Activities

Tree and brush removal at BBDA 3 was performed in February 2004 to avoid the bird nesting season, which occurs from 1 March through 15 August. The Trust Forestry Manager inspected the work area and tagged the trees that required removal. A survey to locate nesting birds was performed by Jeffrey Steinman, consulting ornithologist, from 4 to 6 February 2004. Mr. Steinman's *Results of the Baker Beach Disturbed Areas 3 and 4 Bird Survey* report dated February 2004 is included as Appendix E. The conclusions presented in that report indicated that no special status bird species were found to be nesting within the work area. On completion of the bird survey, the Trust contracted a tree service to cut and remove the trees and brush in the work area. The vegetative material was taken off-site for recycling. A total of 780 tons (approximately 522 cy) of vegetative material (trees and brush) was removed.

At BBDA 3, the Plans and Specs called for the phased removal of vegetation to decrease the likelihood of any off-site surface water runoff during the remedial excavation work (Photo 11). At the completion of the tree removal by the Trust, approximately 60 stumps remained in the ground near the toe of the excavation area to enhance slope (waste fill) stability and to serve as an added erosion and surface water runoff control measure. The stumps were removed by the contractor as late as feasible during the remedial excavation work.

As described in the *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004b), two temporary piezometers, BB3PZ100A and BB3PZ100B, were installed between 29 January and 5 February 2004 (Figure 3). These piezometers were originally for the purpose of monitoring groundwater levels, but groundwater sampling and chemical analysis was subsequently also performed. The development and sampling, as well as laboratory analytical results, are presented in the Slope Stability Evaluation Report. The two piezometers required proper abandonment prior to the beginning of excavation work at BBDA 3. The abandonments were performed on 16 June 2004. However, during the course of the abandonment of BB3PZ100A, the drill bit became entangled in chain-link fencing contained within the fill material. During the removal of the augers to clear the drill bit, the drill rod and well casing both parted at approximately 30 feet bgs. Reconnecting the drill rod was not possible and the abandonment was temporarily suspended.

During the remedial excavation, on 21 September 2004, a limited access drill rig was remobilized to remove the drill rod and well casing to complete the well abandonment at BB3PZ100A. Using the Trust's GPS unit and survey coordinates of the piezometer, the top of the remaining casing was located and exposed (Photo 12). A hollow-stem auger equipped drill

rig over-drilled the casing and removed the remaining rod and casing. The resulting boring was filled with a neat cement grout. All 25 feet of drilling rod and well casing were recovered during this abandonment. Subsequently, the upper 5 feet of the grout column was excavated, removed and the area backfilled with local native sand.

In accordance with the recommendations of the Slope Stability Evaluation Report, survey control points were established along the eastern edge of Lincoln Boulevard, directly upslope of BBDA 3 on 16 June 2004 (Figure 2 and Photo 13). They were re-surveyed for slope stability monitoring approximately every two weeks during active excavation work and approximately every 4 weeks after excavation was completed and while additional site work was being performed. The survey data, specifically the accumulative horizontal and vertical movement, were examined each time to assess whether any movement had taken place. The slope stability monitoring survey data are presented in Table 5. The data indicate that no meaningful movement has occurred. The magnitude of the net movement observed (-0.011 to 0.016 feet) was within the margin of acceptable measurement variability and/or road conditions such as thermal expansion or vibration from passing vehicles during surveying.

3.2.2 BBDA 3 Waste Fill Excavation and Segregation

Between 1 July 2004 and 13 January 2005, a total of 57,595 tons (approximately 38,005 cy) of waste material was removed from BBDA 3. A discussion of the quantity and disposal location for the individual waste streams is presented in Section 3.2.5. The pre-excavation topography and confirmation sampling grid for BBDA 3 is shown on Figure 3. The pre- and post-excavation topographic surveys were used to determine the total volume of waste removed from BBDA 3 (Figure 8).

As required by the DTSC and presented in the Plan and Specs, site excavation was conducted in a phased approach. The material load on the upper slope was to be reduced before the lower toe of the slope was removed. This phased approach was proposed to reduce the potential for slope instabilities during construction by reducing the mass of waste fill in the upper portion of the site while maintaining a plug of soil at the toe of the slope. Thus, between 1 July and 27 July 2004, excavation was limited to the area within the upper slope to reduce the slope surcharge. As construction progressed, excavated material from the slope was continually moved up-slope for stockpiling prior to load out and offsite disposal. On 27 July 2004, with concurrence from DTSC, excavation of the toe or “Phase II Area” of the slope began. On 3 August 2004, DTSC representatives Mr. Robert Boggs and Mr. Ram Ramanujam visited the site to observe site excavation and slope stability conditions.

After the initial grading of the surface and removal of vegetation cover was completed, removal of tree stumps was performed. Using a Caterpillar 330BL excavator, approximately 60 tree stumps (up to approximately 2 feet in diameter) were removed and stockpiled for recycling (Photo 14).

While the excavation of the tree stumps was being performed, excavation and stockpiling of the waste fill was conducted to prepare for off-site disposal. The excavation of fill material at BBDA 3 was performed primarily by using a 330BL excavator and an EL300B long reach excavator (50 feet reach) to excavate and move the material into stockpiles on the upper bench area (Photo 15). Initial samples for waste characterization reported concentrations for lead that required disposal as Class I California Hazardous (CalHaz)Waste. As work progressed, periodic additional waste characterization samples were collected and analyzed (Appendix F, Table F-1). The locations of in-situ waste characterization samples are shown on Figure F-1. Waste samples collected and analyzed after 5 August 2004 indicated that the remaining waste fill did not contain concentrations of lead exceeding the CalHaz waste criteria. The remainder of the waste fill removed from the site was acceptable for Class II and Class III waste disposal. The waste fill was removed until the native dune sand or buttress fill (supporting Battery Crosby Road) was exposed and confirmation samples collected. Excavated waste fill was comprised primarily of fill soil (including chert and serpentinite fragments) and building demolition debris. The demolition debris included broken wooden lumber, concrete and asphalt fragments, chain-link fence and poles, and other small sized construction waste (Photo 16). Several large pieces of building debris (concrete foundation, brick walls, etc.) were also removed during the BBDA 3 excavation activities (Photo 17). Over 200 automobile tires were recovered from the waste fill (Photo 18).

The amount of municipal waste (aluminum cans, glass bottles, plastic and paper waste, etc.) found was limited and observed generally in the shallow fill (less than 3 feet bgs). The limited amount and dispersed distribution of municipal waste made segregation unfeasible. The municipal waste appeared to be of fairly recent origin. A small stack of San Francisco Chronicle newspapers dated 19, 20, and 21 August 1967 were found buried in the waste fill and appeared to be generally representative of the age of the municipal waste. Most cans observed were made of aluminum, and very few steel cans were found. Generally, recovered glass bottles were labeled with current brand names, but with a 1960's vintage design. No other objects of historical or cultural significance were observed during excavation and segregation.

As presented in the RAP, if soil confirmation sample results indicted the presence of contaminant concentrations exceeding the cleanup levels, over-excavation was performed followed by re-sampling in the same area. During construction, over-excavation of 10 areas, including the removal of a portion of the historical Battery Crosby Road, was conducted based on cleanup level exceedances in soil confirmation samples (Figure 4). The over-excavation limits were defined as a point one-half the distance from the exceedance location to the next soil confirmation sample location in each direction. This "box" was excavated to a depth of approximately 1 foot below the depth of the exceedance. Following over-excavation, the original exceedance location (northing and easting) was surveyed, re-established, and then resampled. At two locations (BB3EX128 and BB3EX129), multiple over-excavations were performed to achieve acceptable soil confirmation sample results. The over-excavated material from those locations was disposed of as Class II and Class III waste.

At the request of DTSC, some additional over-excavation of surface material, to a depth of approximately 1 foot in the vicinity of samples BB3EX110[0.5], BB3EX121[0.5], and BB3EX134[0.5] was performed (Figure 4). As agreed in the field walk with DTSC on 21 December 2004, no additional sampling was required after the over-excavation was completed. This excavated material was disposed off-site as Class III soil at Ox Mountain Landfill.

The fill sand, which supports Lincoln Boulevard and was not observed to contain debris, is believed to be free of contaminated material (Treadwell & Rollo, 2004a). Buttress fill sand was placed to support Lincoln Boulevard between 1948 and 1958 (Figure 5). This fill sand was not excavated. Two other areas of known fill were also left in place. These two areas of placed fill are related to the construction of the historical Battery Crosby Road (Figure 5). The fills are distinctly different from each other and likely represent the age of placement.

As shown on Figure 5, a wedge of material, consisting primarily of weathered serpentine and Colma, was left near the northern end of Battery Crosby Road (pre-1958 road fill). This material was placed to bridge a historical ravine to allow the construction of the original road (pre-1958 construction). Based on visual inspection and confirmation sampling results, this material was deemed not to contain any waste material. Because of the lack of waste material, the historical and structural nature of the fill, and the confirmation sampling results, the pre-1958 road fill was left in place.

A second area of fill is located at the head of the new ravine (Figure 5). This material is comprised of mainly chert and was placed as a buttress for the construction of the younger Battery Crosby Road (1958-1973 alignment). Based on visual inspection and confirmation sampling results for the chert roadbed, this material was deemed not to contain any waste material. Because of the lack of waste material, the historical and structurally-supporting nature of the fill, and the confirmation sampling results, the 1958-1973 road fill was left in place.

3.2.3 Historical Battery Crosby Road Documentation

Prior to remediation at the site, the Trust conducted exploratory test pits on the upper bench area of BBDA 3 to attempt to verify and delineate the limits of the historical Battery Crosby Road. Historical aerial photographs had shown that over time, the Battery Crosby Road alignment was modified. As presented in the *Technical Memorandum: Historical Battery Crosby Road and Lead Exploratory Test Pit Excavation Observations and Results* (Treadwell & Rollo, 2004e), the presence of a chert road surface was observed at depths between 1 and 3 feet below the pre-construction ground surface. As a requirement of the NPS 5X project review, the investigation, documentation, and preservation of the historical Battery Crosby Road was to be conducted throughout the remediation construction. The work was coordinated with Mr. Leo Barker, NPS archeologist.

On 30 June 2004, Treadwell & Rollo excavated three test pits (BB3SS100 through BB3SS102) to expose a cross-section of the historical chert roadbed. Samples of the chert roadbed and underlying dune sand were collected and analyzed for site COCs to provide a preliminary waste characterization data (Appendix F, Table F-1). The data indicated detections of PCBs and 4,4'-DDT at concentrations below RAP cleanup levels in two of the three chert roadbed samples analyzed. No exceedances for any of the analyzed compounds in the three samples collected from the underlying dune sand were reported. Based on these data, it appeared that the chert roadbed material was salvageable for reuse or could remain in place. Therefore, subsequent excavation in the vicinity of the historic road alignment was conducted so as to preserve the historic road alignments.

As excavation proceeded, on 18 October 2004, Perf-Ex began to expose the historical Battery Crosby Road. A continuous layer of compacted chert was exposed from Battery Crosby to the truck ramp near Lincoln Boulevard. This alignment appeared to be similar to the 1958-1973 road alignment (Figure 2). The surface was buried up to 4 feet (in the northeast corner) below the pre-construction ground surface. The road alignment was photographed and approximate limits surveyed by the Trust using GPS. A site meeting was conducted on 27 October 2004 with the Trust, NPS, and Treadwell & Rollo. Mr. Barker was shown the exposed historical road surface and alignment. He requested that the roadbed be trenched to attempt to identify the approximate limits of the roadway.

On 3 November 2004, Treadwell & Rollo supervised and logged two trenches to identify the limits of the chert roadbed (Figure 10). A backhoe from the Trust was used to excavate two trenches bisecting the roadway (Photo 19). A trench oriented north to south exposed a road bed comprised of varying thicknesses of red-brown chert overlying, golden-yellow weathered serpentine on dune sand. The apparent width of the roadway was approximately 20 feet. The second trench, oriented east to west, exposed red-brown chert on dune sand. The thickness of the chert road bed varied from approximately 3 feet thick on the eastern end, thinning to a veneer to the west. The apparent width of the roadway was approximately 50 feet. The differences observed in the roadbed construction are likely because the trenches expose two separate roadways. The north to south trench exposes the original, pre-1958 road alignment, while the east to west trench exposes the newer 1958-1973 roadway alignment (Figure 2).

Additionally, on 3 November 2004, while excavating fill material, an apparent metal retaining wall, a support for the historical Battery Crosby Road, was exposed (Figure 10). The retaining wall is constructed of vertical placed, corrugated metal sheets. The sheets are tie-backed with wire ropes and "deadman" stakes. The southern side of the retaining wall is buttressed with a large wedge of weathered serpentine gravel (Figure 10 and Photo 20). The total depth of the metal sheets and buttress gravel wedge was not identified. However, a test pit excavated adjacent to the retaining wall to a depth of approximately 9 feet was terminated in weathered serpentine gravel without exposing the bottom end of the corrugated metal sheets. The total length of wall exposed was approximately 25 feet. The exposed end points of the retaining wall

and road bed trenches were surveyed by the Trust using a global positioning system (GPS) device.

On 4 November 2004, Mr. Barker visited the site. The trenches and retaining wall excavation from the previous day was left open for his observation. Mr. Barker observed and photographed the excavations. Upon completion, Mr. Barker suggested that the retaining wall excavation be filled in and allowed to be left in place and the two trenches across the road bed backfilled.

As excavation continued, the eastern portion of the Battery Crosby Road was narrowed to 20 feet wide to match the older, pre-1958 dimensions. The chert roadbed was excavated exposing dune sand. The excavated chert was stockpiled separately for potential reuse for resurfacing of the Battery Crosby Road at the completion of construction. On 17 November 2004, a waste characterization sample of the stockpiled chert was collected. The results of the analyses indicated no exceedances for the site COCs.

During the soil confirmation sampling to document clean closure, a number of soil confirmation samples were collected from or adjacent to the chert roadway. Analytical results from soil confirmation samples BB3EX146 through BB3EX148 detected exceedances for one or more COCs. Based on these results, a portion of the historical Battery Crosby roadway was excavated and removed. Once overexcavation was completed, the area was re-sampled. The results from subsequent sampling indicated that the contaminants had been removed. The removed section of the historical Battery Crosby Road will be reconstructed.

3.2.4 BBDA 3 Chemical Analysis and Results

Soil samples were collected and analyzed to characterize the waste fill materials for disposal profiling and confirmation sampling to ensure that the material left in place meets the applicable cleanup levels intended for the planned land uses and protection of ecological receptors. The following section presents the sampling and analyses performed at BBDA 3. The locations of the soil confirmation samples collected at former BBDA 3 are presented on Figure 4.

3.2.4.1 Waste Characterization Sampling and Results

As specified in the construction contract, waste characterization was conducted by Perf-Ex to identify the types of waste material present and obtain waste profiles for off-site disposal or recycling at appropriate facilities. Waste characterization sampling protocols are not specified in the QAPP. However, the waste characterization sampling and analysis were conducted using protocols required by the individual waste disposal facilities. Generally, stockpiled material was discretely sampled and then composited prior to analysis. Additionally, to assist with the waste profiling of materials generated during over-excavation activities, the Trust provided Perf-Ex with analytical results from the soil confirmation samples that exceeded cleanup levels prior to over-excavation. Perf-Ex submitted the soil confirmation sample data as waste characterization

data for these materials. Table F-1 presents the analytical results of samples used for waste characterization collected from BBDA 3. The locations of in-situ waste characterization samples are shown on Figure F-1. Copies of the laboratory reports for the waste characterization sample results are included in Appendix F.

Prior to the implementation of the BBDA 3 RAP activities, the Trust performed initial waste characterization activities to evaluate the potential presence of hazardous levels of lead in the fill material. As presented in Treadwell & Rollo's *Technical Memorandum: Historical Battery Crosby Road and Lead Exploratory Test Pit Excavation Observations and Results* dated March 2004 (Treadwell & Rollo, 2004e), analytical results from soil test pit samples indicated the presence of soluble lead exceeding CalHaz waste criteria for two of six test pits. These exceedances were not adjacent to each other.

Three hazardous waste criteria have been established by State and Federal regulators with respect to metals. The State has two criteria based on total and soluble metal concentrations: the total threshold limit concentrations (TTLC) based on total metals analysis, and the soluble threshold limit concentration (STLC) based on the California Waste Extraction Test (WET). The WET test involves a ten times dilution of the sample extract. Soil with concentrations meeting or exceeding these values is considered a State hazardous waste.

The Federal hazardous waste criteria are based on the soluble metal levels determined by the Toxicity Characteristic Leaching Procedure (TCLP) test method. Soil with metal concentrations exceeding the Federal criteria is considered a Federal hazardous waste and must be treated to reduce soluble metal levels either on-site prior to transport or at a Class I hazardous waste landfill prior to disposal.

Further soluble metals analyses using the WET and TCLP indicated that soluble lead concentrations classified the majority of the fill as Class I CalHaz waste. No reported concentrations of lead indicated the waste would meet or exceed Federal Resource Conservation and Recovery Act (RCRA) hazardous waste criteria.

On 14 June 2004, Perf-Ex performed their initial waste characterization sampling to profile the fill materials encountered at BBDA 3. An excavator was used to excavate "potholes" through the fill material. A total of nine potholes were excavated at BBDA 3. The pothole locations were randomly selected to obtain sufficiently representative samples for total and soluble lead chemical analyses. The soil samples were collected, composited into seven samples, and analyzed. These analytical results obtained by Perf-Ex were used to augment the initial waste characterization data collected by the Trust (Treadwell & Rollo, 2004e).

The Perf-Ex analytical results for total lead indicated elevated concentrations (>50 milligrams per kilogram (mg/kg)) in each of the seven samples. Subsequent WET analysis for lead indicated that four of the seven samples contained concentration for soluble lead that exceeded the Class I CalHaz (non-RCRA) Waste limits. Consistent with the earlier Trust waste characterization

results, the distribution of the exceedances appeared to be random across the site and did not represent a pattern.

Because of the random distribution of the exceedance for CalHaz limits throughout the site, the waste material stockpiles were sampled and analyzed to determine whether waste concentrations warranted Class I CalHaz disposal. Samples of the soil stockpiled onsite were periodically collected and analyzed by Perf-Ex. This periodic analysis was performed as a verification check or if a visual change in the excavated material was observed to determine if the soluble lead levels continued to exceed the concentrations acceptable at Class II disposal facilities (Appendix F, Table F-1). In total, 11 stockpile sampling events were performed between June and October 2004. Waste characterization samples from the stockpiled material indicate that the fill remaining onsite as of September 2004 did not exceed CalHaz waste criteria.

Beginning in September 2004, excavated waste material was accepted at either Class II or Class III disposal facilities or recycled. Samples were submitted for chemical analyses in accordance with the waste profiling requirements of each individual waste disposal facility. A breakdown of the disposal facilities and quantity of material is presented in Section 3.2.5.

3.2.4.2 Soil Confirmation Sampling

Soil confirmation samples were collected at BBDA 3 between 30 July and 23 November 2004 (Photo 21). As indicated on Figure 4, excavation "bottom" samples were collected on a pre-marked 75-foot by 75-foot sampling grid. Excavation "perimeter" samples were collected approximately every 75 feet along the limits of the excavation. Along the northwestern boundary of the excavation, a single "combined" sample served as both a "bottom" and "perimeter" sample (BB3EX103[0.5], BB3EX107[0.5], and BB3EX121[0.5]). Also indicated on Figure 4 are sample locations that were removed by over-excavation, based on cleanup level exceedances identified by laboratory analytical results. Additionally, confirmation samples were collected north of the western limits of the excavation to verify that soil in the area was not impacted.

A series of three sites walks were conducted with representatives from the DTSC, Trust, NPS and Treadwell & Rollo. On 27 October 2004, a site walk was conducted to discuss the confirmation sample locations and analytical results obtained to date, as well as proposed groundwater and surface water monitoring locations. Based on discussions during that site walk and on the fact that grid samples were located only along the edges of the ravine in this area, additional soil confirmation samples (BB3EX116[0.5], BB3EX130[0.5], BB3EX138[0.5] and BB3EX139[0.5]) were collected in November 2004 along the approximate centerline of the ravine created by the excavation of the waste fill material. A follow-up site walk was conducted on 21 December 2004 and a final site walk including a senior representative of DTSC was conducted on 5 January 2005 to discuss all confirmation sample locations and data obtained, and to observe the locations of the recently installed groundwater monitoring wells and fixed water

monitoring points. No additional soil confirmation sampling was required as a result of either of these two site walks.

3.2.4.3 Soil Confirmation Sample Results

The analytical results and effective soil cleanup levels for BBDA 3 soil confirmation samples are presented in Tables 6 through 12. Results for samples collected from beach/dune sand, Colma soils, or serpentinite are compared to RAP cleanup levels presented in Table 1A. Results for chert samples, which were all collected from the historical Battery Crosby Road alignment, are compared to cleanup levels derived from the Cleanup Levels Document (EKI, 2002). Copies of the laboratory reports for soil confirmation samples are included in Appendix A. The data validation report is included in Appendix B.

COCs

As presented in Section 2.2, COCs in soil at BBDA 3 included:

- cadmium, cobalt, lead, and zinc;
- dieldrin, chlordane (including alpha-chlordane, gamma-chlordane, and chlordane), and 4,4'-DDT; and
- PCB Aroclor-1254.

Metals results are summarized in Table 6. Cobalt and zinc were detected in all soil confirmation samples; lead was detected in all but one sample; and cadmium was detected in 26 out of a total of 66 samples. Cadmium concentrations ranged between less than 0.15 mg/kg to 1.0 mg/kg, all below applicable cleanup levels. At sample location BB3EX122[0.5], cobalt was detected at 61 mg/kg, exceeding the cleanup level for Colma soils of 21 mg/kg; this area was subsequently over-excavated and re-sampled (Photo 22). For all other samples, cobalt concentrations were below applicable cleanup levels and ranged between 3.5 mg/kg to 25 mg/kg. Lead concentrations ranged between 0.14 mg/kg to 83 mg/kg, well below the applicable cleanup level of 160 mg/kg for all lithologies. At sample locations BB3EX100[0.5], BB3EX116[0.5], and BB3EX120[0.5], zinc was detected at concentrations of 72, 87, and 71 mg/kg, respectively, exceeding the cleanup levels for beach/dune sand of 66 mg/kg. These three areas were subsequently over-excavated (Photo 22) and re-sampled. For all other samples, zinc concentrations were below applicable cleanup levels and ranged between 11 mg/kg to 49 mg/kg.

Pesticide results are presented in Table 7. Dieldrin was not detected in any samples at concentrations exceeding the cleanup level of 30 micrograms per kilogram (µg/kg). 4,4'-DDT was detected above the cleanup level of 8.2 µg/kg in samples BB3EX115[0.5], BB3EX120[0.5], BB3EX145[0.5], BB3EX146[0.5], and BB3EX148[0.5]. All six of these areas were subsequently over-excavated and re-sampled. All other samples had 4,4'-DDT concentrations below detectable levels or below the cleanup level. Neither alpha-chlordane nor gamma-

chlordane was present above cleanup levels in any samples. For those samples that contained detectable amounts of either of the two chlordane isomers, the concentrations were added together and compared to the cleanup level of 9 μg/kg. The highest combined chlordane isomer concentration was 6.9 μg/kg and the highest combined reporting limit was less than 7.4 μg/kg, both below the cleanup level of 9 μg/kg.

Exceedances of PCBs (Arochlor-1248 and Arochlor-1254) were found in samples BB3EX100[0.5], BB3EX115[0.5], BB3EX120[0.5] and its duplicate DUP083004A, BB3EX145[0.5], BB3EX147[0.5], and BB3EX148[0.5], ranging in concentrations from 36 to 180 μg/kg, above the applicable cleanup level of 33 μg/kg. These areas were all subsequently over-excavated and re-sampled. PCB concentrations in all other samples and for the re-sampled areas were below detectable levels (Table 8).

Other Compounds

Among the non-COC pesticides, the pesticide gamma-BHC was detected at concentrations exceeding the cleanup level of 10 μg/kg in samples BB3EX145[0.5], BB3EX145[1.0], and BB3EX148[0.5]. All three areas were subsequently over-excavated and re-sampled, and gamma-BHC was not detected in any other samples (Table 7). Several samples had reporting limits elevated above applicable cleanup levels for 4,4'-DDT, aldrin, endrin, endrin ketone, and/or the combined isomers of alpha- and gamma-chlordane. Samples BB3EX100[0.5], BB3EX116[0.5], and BB3EX118[0.5] were over-excavated and re-sampled, and no further exceedances were found. For sample DUP110504[0.5], the elevated reporting limits of 7.2 μg/kg for endrin and endrin ketone were found only in the duplicate and not in the primary sample (BB3EX143[0.5]). Endrin and endrine ketone were not present above the 3.6 μg/kg detection limit in the primary sample and no OCPs were detected in either sample. Therefore, this sampling location is considered to meet cleanup requirements.

Of the non-COC metals, residual concentrations for nickel, selenium, and vanadium exceeded cleanup levels in a total of five locations (Table 6). The rationale for leaving these exceedances in place is presented below and summarized in Table 9.

BB3EX128[0.5] contains selenium at a concentration of 0.7 mg/kg, which exceeds the cleanup level for Colma soils (0.5 mg/kg), but is below the cleanup level for beach/dune sand (0.75 mg/kg). Although the sample was logged as Colma, it is located near the Colma and beach/dune sand contact and actually contains a mixture of Colma soil and beach/dune sand. This explains the slightly elevated selenium concentration when compared to the Colma cleanup levels. The result meets the beach/dune sand cleanup level and is considered acceptable for this sample.

The evaluation of all other metals exceedances involved an assessment of overall risk posed by the residual concentrations, which was done by calculating the 95% upper confidence limit of the mean (95% UCL) of the residual soil confirmation results. The 95% UCL of a mean is defined as a value that, when calculated repeatedly for randomly drawn subset of data, equals or exceeds

the true mean 95 percent of the time. U.S. EPA's *Risk Assessment Guidance for Superfund* (EPA,1989) indicates that the exposure concentration of a given chemical for evaluating exposure and associated risks under an assumed Reasonable Maximum Exposure (RME) will be based on the 95% UCL. The RME represents the area-wide concentration to which a receptor would be exposed. The use of the 95% UCL represents the fact that receptors would not be exposed to isolated locations where there are cleanup level exceedances, but would be exposed to area-wide concentrations, and the 95% UCL represents an upperbound estimate of the average area-wide residual exposure concentration. The 95% UCL calculations are described in Appendix G and presented in Table G-1.

- BB3EX128[0.5] has a nickel concentration of 150 mg/kg, which exceeds the cleanup level for Colma soils of 110 mg/kg. To evaluate the level of residual risk posed by this result, the 95% UCL of the mean was calculated for nickel using the analytical results for all sampling locations that had not been removed (over-excavated). The procedures used in the calculations are described in detail in Appendix G. The data distribution for nickel is shown on Figure G-1A and the calculations are presented in Table G-1. As indicated in Table G-1, the 95% UCL of the mean for nickel equals 32 mg/kg, which is below the RAP cleanup levels of 70, 110, and 4,500 mg/kg for native beach/dune sand, Colma, and serpentinite, respectively. Therefore, the remaining levels of nickel at BBDA 3 are not considered to pose an unacceptable risk to human health or the environment.

- BB3EX141[2.5] and BB3EX141[5.5] contain vanadium at 91 mg/kg and 100 mg/kg, respectively. Both samples were collected from pre-1958 road fill underlying Battery Crosby Road. Based on visual inspection in the field, the road fill consists of a mixture of beach/dune sand, Colma soil, and serpentinite, resulting in elevated vanadium concentrations relative to the 74 mg/kg cleanup level for serpentinite. However, the 91 mg/kg result for BB3EX141[2.5] meets the 92 mg/kg cleanup level for beach/dune sand. Therefore, the result is considered acceptable for this sample. To evaluate the level of residual risk posed by the 100 mg/kg result for BB3EX141[5.5], the 95% UCL of the mean was calculated for vanadium using the analytical results for all sampling locations that had not been removed (over-excavated). The procedures used in the calculations are described in detail in Appendix G. The data distribution for vanadium is shown on Figure G-1C and the calculations are presented in Table G-1. As indicated in Table G-1, the 95% UCL of the mean for vanadium equals 45 mg/kg, which is below the RAP cleanup levels of 92, 90, and 74 mg/kg for native beach/dune sand, Colma, and serpentinite, respectively. Therefore, the remaining levels of vanadium at BBDA 3 are not considered to pose an unacceptable risk to human health or the environment.

- BB3EX151[0.5] and BB3EX152[0.5] contain selenium at 0.72 and 1.3 mg/kg, respectively. Both samples were collected from the non-native chert road surface material on Battery Crosby Road. The detected concentrations exceed the cleanup level for chert of 0.5 mg/kg. To evaluate the level of residual risk posed by these results, the 95% UCL of the mean was calculated for selenium. The procedures used in the calculations are described in detail in Appendix G. The data distribution for selenium is shown on Figure G-1B, and the calculations are presented in Table G-1. As indicated in Table G-1, the 95% UCL of the mean for selenium equals 0.38 mg/kg, which is below the chert cleanup level of 0.5 mg/kg. Therefore, the remaining levels of selenium at BBDA 3 are not considered to pose an unacceptable risk to human health or the environment.

Therefore, the remaining levels of the non-COC metals (nickel, selenium, and vanadium) are not considered to pose an unacceptable risk to human health or the environment. Based on the rationale presented above and in Table 9, BBDA 3 is suitable for unrestricted land use.

In accordance with the RAP, 10 percent of the soil confirmation samples were analyzed for an expanded suite of chemical analyses, which included TPHd, TPHfo, VOCs, SVOCs, and chlorinated herbicides.

Detections of TPHd ranged between <1 mg/kg and 36 mg/kg, well below the cleanup level of 700 mg/kg (Table 10). Detections of TPHfo ranged between <5 mg/kg and 87 mg/kg, also well below the cleanup level of 980 mg/kg.

Sample BB3EX116[0.5] had the following concentrations of SVOCs (Table 11): benzo(a)anthracene at 580 µg/kg, benzo(a)pyrene at 620 µg/kg, benzo(b)fluoranthene at 450 µg/kg, benzo(k)fluoranthene at 690 µg/kg, and indeno(1,2,3-c,d)pyrene at 300 µg/kg, which exceeded applicable cleanup levels of 270, 27, 270, 270, and 270 µg/kg, respectively. This area was subsequently over-excavated and re-sampled. For all other samples, the standard laboratory reporting limits were above applicable cleanup levels for 1,4-dichlorobenzene and benzo(a)pyrene. No SVOCs were detected in the remaining BBDA 3 samples, and the instances of elevated reporting limits do not pose a concern. SVOCs are not COCs for BBDA 3 and it appears that SVOCs are not present at levels that may pose an unacceptable risk to human health or the environment.

No VOCs were present at detectable levels, and all laboratory reporting limits were below applicable cleanup levels (Table 11).

No chlorinated herbicides were detected in any of the seven samples submitted (Table 12). One sample (BB3EX116[0.5]) was over-excavated due to exceedances of other compounds. The remaining six samples had slightly elevated reporting limits for 2,4-D (<0.029 mg/kg versus cleanup level of 0.025 mg/kg) and MCPP (2-(2-Methyl-4-chlorophenoxy) propionic acid)

(<5.3 mg/kg versus cleanup level of 5 mg/kg), and two samples also had slightly elevated reporting limits of <0.011 mg/kg for dicamba (versus cleanup level of 0.010 mg/kg). The absence of detectable pesticides in all samples indicates that they were generally free of chlorinated herbicides. Therefore, these minor elevations of reporting limits are unlikely to mask the presence of herbicides exceeding cleanup levels. It appears that chlorinated herbicides are not present in site soils at levels that may present an unacceptable risk to human health or the environment.

QA/QC Field Samples

In accordance with the QAPP, duplicate soil samples were collected and analyzed at a rate of 10 percent of the primary samples. Laboratory prepared trip blank samples were included in sample shipments containing samples for VOC analysis. The analytical results for the seven soil confirmation sample duplicate samples are included in Tables 6 through 12. The analytical results for the trip samples are presented in Table 13. No VOCs were detected in the trip blanks.

All confirmation samples at BBDA 3 were collected by pushing the sampling tubes into the soil material, thus no sampling equipment was used. Therefore, no equipment rinsate blank samples were required.

3.2.4.4 BBDA 3 Soil Confirmation Sample Data Validation

VOCs

Reporting Limits: Reporting limits were somewhat elevated for acetone and methylene chloride, as well as bromoform, bromomethane, chloroethane, and chloromethane. For all other samples, the laboratory reporting limits met the project required reporting limits.

SVOCs

Reporting Limits: Reporting limits were somewhat elevated for 2-nitrophenol and acenaphthene. For all other samples, the laboratory reporting limits met the project required reporting limits.

MS/MSD: The detected result for pyrene in sample BB3EX116[0.5] was qualified as estimated with a low bias (J-) due to percent recovery failure.

TPH Diesel/Fuel Oil Range

The laboratory reporting limit met the project-required reporting limit, and qualification was not required for any results.

Sample BB3EX139[0.5] did not receive silica gel cleanup procedure. Since the sample was non-detect for TPH-diesel and fuel oil, the anomaly would not affect the usability of the data. All other samples were silica gel cleaned.

Organochlorine Pesticides

Reporting Limits: The results for all compounds in sample BB3EX100[0.5] were reported as non-detect at a five-fold dilution due to the nature of the sample matrix. The results for all compounds in samples BB3EX116[0.5] and DUP110504A were reported as non-detect at a two-fold dilution due to the nature of the sample matrix. For all other samples, the laboratory reporting limits met the project required reporting limits.

Initial Calibration: Sample BB3EX111[0.5] was non-detect for beta-BHC, delta-BHC, and endosulfan sulfate, and the results were qualified as estimated (UJ). Samples BB3EX112[0.5] through BB3EX115[0.5] were non-detect for endosulfan sulfate and endrin ketone and were qualified as estimated (UJ).

Continuing Calibration: Samples BB3EX101[0.5] through BB3EX105[0.5] were non-detect for delta-BHC and 4-4'-DDT and were qualified as estimated (UJ). Samples BB3EX107[0.5], BB3EX109[0.5], and BB3EX110[0.5] were non-detect for endrin and were qualified as estimated (UJ). Sample BB3EX111[0.5] was non-detect for 4,4'-DDT and methoxychlor and were qualified as estimated (UJ). Samples BB3EX120[0.5] and DUP083004A were non-detect for 4,4'-DDT and were qualified as estimated with a low bias (J-). Sample BB3EX130[0.5] was non-detect for endrin ketone and was qualified as estimated (UJ). Sample BB3EX139[0.5] was non-detect for 4,4'-DDT and was qualified as estimated (UJ).

Surrogate Recoveries: Samples BB3EX124[0.5], BB3EX137[0.5], BB3EX138[0.5], BB3EX141[5.5], and BB3EX146[1.0] were non-detect for alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, aldrin, heptachlor, heptachlor epoxide and endosulfan I were qualified as estimated (UJ).

Polychlorinated Biphenyls

Reporting Limits: The laboratory reporting limits met the project-required reporting limit.

MS/MSD: Sample BB3EX118[0.5] was non-detect for Arochlors-1016 and -1260 and was qualified as estimated (UJ).

Surrogate Recoveries: Samples BB3EX118[0.5] and BB3EX130[0.5] were non-detect for PCB Arochlors-1248, -1254, and -1260 and were qualified as estimated (UJ). Sample BB3EX118[0.5] was also non-detect for PCB Arochlors-1016, -1221, -1232, and -1242 and was qualified as estimated (UJ).

Chlorinated Herbicides

The laboratory reporting limits met the project-required reporting limits, and qualification was not required for any results.

Metals

Reporting Limits: The laboratory reporting limits met the project-required reporting limits.

Initial and Continuing Calibrations: Sample BB3EX153[0.5] had a value of selenium between the reporting limit and two times the reporting limit and was qualified as estimated with a high bias (J+).

MS/MSD: The detected results for antimony and vanadium in samples BB3EX111[0.5] through BB3EX115[0.5] were qualified as estimated with a low bias (J-/UJ). The detected result for antimony and nickel in sample BB3EX116[0.5] was qualified as estimated with a low bias (J-/UJ). The detected results for antimony, chromium, and vanadium in sample BB3EX118[0.5] were qualified as estimated with a low bias (J-/UJ). Samples BB3EX117[0.5], BB3EX120[0.5], BB3EX121[0.5], and DUP083004A were non-detect for antimony and were qualified as estimated (UJ). The detected results for barium and cobalt in samples BB3EX128[0.5] through BB3EX136[0.5] and DUP100104A were qualified as estimated with a high bias (J+), and the non-detect results for antimony in the same group of samples were qualified as estimated (UJ). The detected results for barium in samples BB3EX151[0.5] through BB3EX154[0.5] and DUP112204A were qualified as estimated with a low bias (J-), and the detected results for antimony, arsenic, beryllium, chromium, cobalt, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc in the same group of samples were qualified as estimated with a low bias (J-/UJ) for percent recovery failure.

ICP Serial Dilution: The detected results for copper in samples BB3EX111[0.5] through BB3EX115[0.5] and BB3EX122[0.5] through BB3EX127[0.5] were qualified as estimated (J). The detected results for beryllium in samples BB3EX128[0.5] through BB3EX136 and DUP1000104A were qualified as estimated (J).

Field Duplicate Samples

Seven samples were collected in duplicate at the BBDA 3 site. The calculated RPD in the result for zinc was above project criteria in one pair of samples and for lead in two pairs of samples. The imprecision in the results in the field duplicate pairs may be due to sample matrix, sample non-homogeneity, sampling or laboratory technique, or method defects. Since the effect on the quality of data is not known, no data were qualified.

3.2.5 BBDA 3 Waste Stream Disposal

The total quantity of waste removed from BBDA 3 is 57,595 tons (Table 14). The materials were either recycled or disposed at appropriate off-site facilities. The following sections present the quantities and final disposition for each waste stream. The reported tonnages for all excavated waste are compiled from the waste manifests and weight tickets received from each waste facility, which are included in Appendix H. The volumes are estimated based upon an

overall conversion factor of 1.495 tons per bank cubic yard, which was calculated by dividing the total tonnage excavated prior to the post-construction survey (56,049 tons) by the total bank cubic yards excavated (37,493 cy), as documented by the post-construction survey. Additional details regarding the calculation of the conversion factor are presented in Table 14. The conversion factor represents an average unit weight (tons per bank cubic yard) for all excavated material. The actual unit weights cannot be determined, as individual waste stream volumes could not be measured in-place, prior to excavation.

3.2.5.1 Pre-excavation Tree and Brush Removal

Prior to the beginning of waste excavation activities, the Trust contracted with a tree removal service to clear tress and brush from BBDA 3. Approximately 780 tons (approximately 522 cy) of green waste were chipped and recycled off-site.

3.2.5.2 Recycled Green Waste (Logs and Tree Stumps)

Approximately 88 tons (approximately 59 cy) of green waste, primarily logs and tree stumps, were excavated and transported to West Contra Costa Landfill for recycling.

3.2.5.3 Recycled Material

The recovered auto tires (4 tons, or 3 cy) were recycled at Recovery West. A small quantity of metal pipe was recovered during the removal of waste fill at BBDA 3. The quantity of metal was not a sufficient quantity to recycle and was disposed with the Class II waste soil.

3.2.5.4 Contaminated Soil, Class III Disposal

Approximately 1,891 tons (approximately 1,265 cy) of Class III soil were removed and disposed at Ox Mountain Landfill.

3.2.5.4 Contaminated Soil, Class II Disposal

Approximately 12,062 tons (approximately 8,068 cy) of Class II soil were removed and disposed at Altamont Landfill.

3.2.5.5 Contaminated Soil, Class I Disposal

Approximately 42,770 tons (approximately 28,610 cy) of CalHaz waste was disposed at the Class I facility at Buttonwillow.

3.2.6 BBDA 3 Surface Restoration

Following a 5 January 2005 onsite meeting with representatives of the DTSC, Trust, and NPS, concurrence that the final results from the soil confirmation sampling documented clean closure was received and site restoration activities began.

3.2.6.1 Final Grading

After completion of the confirmation sampling program, the site was re-graded in several areas, mostly in the immediate vicinity of Battery Crosby Road, to facilitate proper drainage, mitigate surface erosion during storm events, and achieve an acceptable appearance (Photo 23). Post-construction topography after re-grading is shown on Figures 5, 8, and 10.

3.2.6.2 Erosion Control

As presented in the Plans and Specs, the final finished surface of the site required certain erosion control features to stabilize it prior to the establishment of vegetation. Following the contouring of the slope, the temporary erosion control devices were installed (Photo 23). These devices included straw wattle placed on topographic contours across the upper, northern slope and silt fences and straw wattles placed across the centerline of the ravine along 10-foot contour intervals at the upper edge of the slope (Figure 5).

The erosion control materials were installed in accordance with the Plans and Specs. The straw wattles were placed along pre-determined topographic contours. The positions of the straw wattles were fixed in the field using a hand level to maintain the line of topographic contour. The straw wattles were then installed and staked into place.

The installation of the sand bag check dams were added as a modification to the original final erosion control measures presented in the Plans and Specs (Photo 24). Because the dune sand has little cohesion, the constant flow of water from the seeps caused locally severe erosion including incising and movement of the sand. The sand bag check dams positioned at regular intervals slowed the flow of water and facilitated deposition and retention of mobilized sand. Sand bag check dams were constructed using burlap sand bags filled with locally derived sand, and the areas between the check dams were covered with an erosion control mat.

This modification was required due to the presence of groundwater seeps exposed during excavation. The seeps originally were observed as localized wet areas located mid-slope and near the lower portion of the slope on the northern flank of the ravine. These seeps appeared as damp to wet sand approximately 2 feet thick. The flow of the seeps during construction was initially not measurable. As the construction proceeded, unusually heavy winter storms delivered multiple inches of measurable precipitation, and seeps were observed along the entire portion of the northern flank of the ravine from mid-slope to the toe. Currently, the main source of the surface water seep is a localized area near fixed water monitoring point BB3SW102 (Figure 5).

The flow rate of this main seep area appears to be directly related to rainfall. During high seep flow periods, which generally occur in the days immediately following heavy rainfall, total flow of up to 5 to 7 gallons per minute have been measured. Because of this high flow, the final erosion control measures have been modified to include a diversion pipe to contain and direct the main seep flow to the beach. The flow is being temporarily diverted via a discharge pipe to a vegetated area in the sand dunes immediately below the site in an effort to protect the exposed on-site dune sand slope from severe erosion (Photos 25 and 26).

On 14 February 2005, a final site inspection and approval of the erosion control installation was conducted by the Project Engineer and CQA Officer, Mr. Wendell Minshew.

3.2.6.4 Re-vegetation

To assist with erosion control measures, NPS established a willow mattress after remedial excavation had begun near the toe of the slope, and willow shoots were planted by NPS in the area beginning 27 August 2004 (Photo 27). As evidenced during heavy rainfall events in the late fall and early winter of 2004, these willow shoots tend to become partially buried by wind- and water-borne sand and will require periodic maintenance until they become established. Once established, the willow mattress will aid in stabilizing the toe of the slope.

Full native vegetation restoration planting at BBDA 3 is being performed by NPS. These activities are ongoing and will continue periodically as needed and at the discretion of NPS..

3.2.6.5 Battery Crosby Road Realignment

[As of the date of publication of this draft, the final design of the Battery Crosby Road realignment was still pending. All activities associated with the reconstruction of the road, including a final site survey, will be documented in a future addendum to this report.]

3.2.6.6 Post-Construction Erosion Control Monitoring

The Trust will continue storm water inspections and prepare annual compliance reports in accordance with the Work Plan, the SWPPP, and the SWRCB general permit.

3.3 Baker Beach Disturbed Area 4

The following sections present the observations and details of the remedial activities performed at BBDA 4 during the removal of impacted fill and site restoration. The BBDA 4 pre-excavation topography is shown on Figure 6. No other pre-excavation activities, such as tree removal, were required at this site.

3.3.1 BBDA 4 Excavation and Segregation

Between 5 and 7 October 2004, a total of approximately 600 tons (452 bank cubic yards, as measured by surveying) of waste material were removed from the site. A discussion of the quantity and disposal location for the individual waste streams is presented in Section 3.3.3. The pre- and post-excavation topographic surveys were used to determine the volume of waste removed from BBDA 4 (Figure 9).

As presented in the RAP and Plans and Specs, excavation at BBDA 4 was conducted in one mobilization. Public access to Battery Chamberlin Road and the Lincoln Boulevard footpath was maintained during all site construction activities.

On 5 October 2004, the excavator was mobilized to BBDA 4 and off-site removal of green wastes began. As presented in Section 3.3.2.1, waste characterizations samples identified the impacted fill as Class II and Class III waste material. These materials were excavated and temporarily placed in two separate stockpiles at BBDA 3. The fill was removed until the native or non-impacted fill material was exposed and confirmation samples collected. The native material at the site consisted of beach/dune sand.

The excavation of fill material at BBDA 4 (Photo 28) was performed using the EL300B long reach excavator. The excavator loaded the material into 10-wheel dump trucks which transferred the material to stockpiles at BBDA 3 (Photo 29). Observations of the fill exposed during the excavation indicated that it was comprised primarily of uniformly sized fragments of concrete with random fragments of asphalt debris. The concrete debris was roughly 1 to 2 feet square (Photo 30). The vegetation/soil mixture indicated in Table 14 was comprised of scraped surface ice plant and dirt. It was not cost effective to segregate the green waste. The small quantity of green waste was added to the existing soil stockpile at BBDA 3. No municipal waste (aluminum cans, glass bottles, plastic and paper waste, etc.) was observed at BBDA 4.

No objects of historical or cultural significance were observed or collected during the course of excavation and segregation activities.

3.3.2 BBDA 4 Chemical Analysis and Results

3.3.2.1 Waste Characterization Sampling and Results

Waste characterization sampling was performed by Perf-Ex to profile the non-native waste and fill materials encountered at BBDA 4. On 20 July 2004, four hand-dug “potholes” were excavated in the fill material to collect samples for waste profiling. The pothole locations were randomly selected to try to obtain sufficiently representative samples for chemical analyses. Table F-1 presents the analytical results for waste characterization of samples collected from BBDA 4. Copies of the laboratory reports for the waste characterization sample results are included in Appendix F.

The waste profiling samples were submitted for chemical analyses as required by the individual waste disposal facilities. The waste characterization results for the samples indicated concentrations acceptable for Class II and Class III disposal facilities.

3.3.2.2 Soil Confirmation Sampling

Soil confirmation samples were collected on 7 October 2004. At BBDA 4, confirmation samples were to be collected on a 50-foot by 50-foot sampling grid in accordance with the RAP. However, due to the limited areal extent of the actual excavation, samples were collected at a greater density than required by the RAP. As shown on Figure 7, "bottom" samples were collected every 20 feet across the width of the center of the excavation and "perimeter" samples were collected approximately every 50 feet along the edge of the excavation.

On 20 October 2004, a meeting and site walk were conducted with representatives from the DTSC, Trust, NPS and Treadwell & Rollo to discuss confirmation sample locations and analytical data collected to date. No further action was required as a result of the final site walk.

3.3.2.3 Soil Confirmation Sample Results

The analytical results for BBDA 4 soil confirmation samples and effective soil cleanup levels are presented in Tables 15 through 19. Copies of the laboratory reports for soil confirmation sample results are included in Appendix A. The data validation report is included in Appendix B.

COCs

As presented in Section 2.2, lead, zinc, 4,4'-DDT and chlordane (including chlordane and gamma-chlordane) are the COCs for soil identified in the RAP for BBDA 4.

Detected concentrations for lead reported in the confirmation samples ranged between 1.7 mg/kg to 31 mg/kg, well below the cleanup level of 160 mg/kg (Table 15). Similarly, detected concentrations for zinc ranged between 16 and 35 mg/kg, well below the cleanup level of 66 mg/kg.

Neither 4,4'-DDT nor either of the chlordane isomers (alpha-chlordane and gamma-chlordane) were detected in any of the samples (Table 16). The laboratory reporting limits for one of the nine samples, BB4EX104[0.5], were above cleanup levels for several OCPs, including the COCs. Based on the observation that no OCPs were detected in any of the other eight confirmation samples collected at BBDA 4 and that samples were collected at a much higher density at BBDA 4 than required in the RAP, the elevated reporting limits for this one sample were judged not to provide a basis for any further action.

Other Compounds

No non-COC metals were detected above associated cleanup levels (Table 15).

In accordance with the RAP, 10 percent of the soil confirmation samples were analyzed for an expanded suite of chemical analyses which included PCBs, TPHd, TPHfo, VOCs, SVOCs, and chlorinated herbicides. Since only seven confirmation samples were collected, only one sample (BB4EX100[0.5]) and its duplicate (DUP100704A) were analyzed for these parameters.

No PCBs were detected and all laboratory reporting limits were below applicable cleanup levels (Table 17).

Detections of TPHd ranged between < 1 mg/kg and 2.1 mg/kg, well below the cleanup level of 700 mg/kg (Table 17). Detections of TPHfo ranged between < 5.1 mg/kg and 7.1 mg/kg, also well below the cleanup level of 980 mg/kg.

No SVOCs were detected at BBDA 4 (Table 18). For the two samples, the standard laboratory reporting limits were above applicable cleanup levels for two compounds, 1,4-dichlorobenzene and benzo(a)pyrene. Based on the observations that no other SVOCs (including 22 with RAP-based cleanup levels) were detected in either sample, the elevated reporting limits for these two compounds were judged not to provide a basis for any further action.

For VOCs, no compounds were detected, and all laboratory reporting limits were below applicable cleanup levels (Table 18).

No chlorinated herbicides were detected in the BBDA 4 samples (Table 19).

QA/QC Samples

In accordance with the QAPP, duplicate soil samples were collected and analyzed at a rate of 10 percent of the primary samples. Laboratory prepared trip blank samples were included in sample shipments containing samples for VOC analysis. The analytical results for the one soil confirmation sample duplicate are included in Tables 15 through 19. The analytical results for the trip blank samples are presented in Table 13. One trip blank sample for the BBDA 4 sample batch was submitted for VOC analyses with no VOCs detected.

All soil confirmation samples at BBDA 4 were collected by pushing the sample tube into the native material; thus no sampling equipment was used. Therefore, no equipment rinsate blank samples were required.

3.3.2.4 BBDA 4 Soil Confirmation Sample Data Validation

VOCs

Reporting Limits: Reporting limits were somewhat elevated for acetone, methylene chloride, and vinyl acetate, as well as bromoform, bromomethane, chloroethane, and chloromethane. For all other samples, the laboratory reporting limits met the project required reporting limits.

SVOCs

Reporting Limits: Reporting limits were somewhat elevated for 2-nitrophenol and acenaphthene. For all other samples, the laboratory reporting limits met the project required reporting limits.

TPH Diesel/Fuel Oil Range

The laboratory reporting limit met the project-required reporting limit, and qualification was not required for any results.

Organochlorine Pesticides

Reporting Limits: The results for all compounds in samples BB4EX104[0.5] were reported as non-detect at a twenty-fold dilution due to the nature of the sample matrix. For all other samples, the laboratory reporting limits met the project required reporting limits.

Continuing Calibration: Samples BB4EX104[0.5], BB4EX106[0.5] and BB4EX107[0.5] were non-detect for 4,4'-DDT and endrin ketone and were qualified as estimated (UJ).

Polychlorinated Biphenyls

The laboratory reporting limits met the project-required reporting limits, and qualification was not required for any results.

Chlorinated Herbicides

The laboratory reporting limits met the project-required reporting limits, and qualification was not required for any results.

Metals

The laboratory reporting limits met the project-required reporting limits, and qualification was not required for any results.

Field Duplicate Samples

One sample was collected in duplicate at the BBDA 4 site. The calculated RPDs met the 50% precision control requirement.

3.3.3 BBDA 4 Waste Stream Disposal

Only two types of wastes were removed from BBDA 4 during the remedial action, which were disposed at appropriate off-site facilities. The following sections present the quantities and final disposition for the waste materials removed from BBDA 4. The total quantity of waste removed

from BBDA 4 is 736 tons (Table 14). The reported waste tonnages are compiled from the waste manifests and weight tickets received from each waste facility and are included in Appendix H. The volumes are estimated based upon an overall conversion factor of 1.63, which was calculated by dividing the total tonnage (736 tons) by the total bank cubic yards excavated (452 cy). The conversion factor represents an average unit weight (tons per bank cubic yard) for all excavated material. The actual unit weights cannot be determined, as individual waste stream volumes could not be measured in-place, prior to excavation.

3.3.3.1 Recycled Material

No recyclable materials were found at BBDA 4.

3.3.3.2 Green Waste (Vegetation and Soil), Class III Disposal

Approximately 85 tons (approximately 52 cy) of mixed vegetation and soil were disposed at the Ox Mountain Landfill.

3.3.3.3 Contaminated Soil, Class II Disposal

A total of approximately 651 tons (approximately 400 cy) of Class II contaminated soil and concrete were removed to Altamont for disposal.

3.3.4 BBDA 4 Surface Restoration

3.3.4.1 Final Grading

After completion of the confirmation sampling program, the excavated area was only minimally re-graded to facilitate proper drainage of the site and achieve an acceptable appearance. Final topography of BBDA 4 is shown on Figure 7 and Figure 9.

3.3.4.2 Final Erosion Control

As presented in the Plans and Specs, the final finished surface of the site required certain erosion control features to stabilize the site prior to the establishment of vegetation. Following the contouring of the slope, the planned erosion control devices were installed (Photo 31). These devices include a bio-degradable erosion control mat placed across the excavated slope, a silt fence at the lower edges of the slope, and straw wattles placed along topographic contours at several locations across the slope (Figure 7).

The erosion control materials were installed in accordance with the Plans and Specs. The straw wattle was placed along a pre-determined topographic contour. The position of the straw wattle was fixed using a surveyor to mark the specific line of topographic contour, and wattle was then installed and staked into place. The wattle is positioned along the 138-foot topographic contour across the site (Figure 7). Additionally, a run of wattle was placed along the northern edge of

Battery Chamberlin Road to prevent rainwater runoff from the road across that slope of the site. On 16 November 2004, a final site inspection and approval of the erosion control installation was conducted by the Project Engineer and CQA Officer, Mr. Wendell Minshew.

Observations during the excavation work indicated that an existing storm drain outfall from Lincoln Boulevard once discharged directly onto BBDA 4, but is currently filled in with soil (Figure 7). If it were to be cleaned out and returned to service, discharge from the storm drain during rains would potentially cause concentrated run-off through the swale, resulting in considerable erosion of the excavated area of BBDA 4. The Trust, in consultation with NPS, decided to abandon the subject storm drain in place. The work was performed in April 2005. This was accomplished by sealing the storm drain invert with asphalt.

3.3.4.3 Re-vegetation

Native vegetation restoration planting began in January 2005 and continued through Spring 2005. Additional planting and maintenance work may continue on an intermittent basis, at the discretion of NPS, and all work will be performed by NPS.

3.3.4.4 Post-Construction Erosion Control Monitoring

The Trust will continue to perform storm water inspections, prepare annual compliance reports, and monitor erosion control in accordance with the SWPPP, the SWRCB general permit, and the Trust's Erosion Monitoring Plan (Treadwell & Rollo, 2004d).

4.0 BBDA 3 GROUNDWATER AND SURFACE WATER MONITORING

As described in the Work Plan, two temporary piezometers were installed and sampled during the January 2004 slope stability field investigation. Boring and piezometer installation logs as well as sampling results are presented in the *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004b). As discussed previously, these piezometers were abandoned prior to the initiation of remedial excavation work. As outlined in the RAP and Work Plan, three new groundwater monitoring wells and one surface water monitoring point were to be installed at BBDA 3 to monitor for potential contaminant migration from the site following clean closure remedial activities. The information obtained from the installation and sampling of the two temporary piezometers was used to guide the selection of the monitoring well locations and estimated completion depths.

On 27 October 2004, a site walk was conducted with representatives from the DTSC, Trust, NPS, and Treadwell & Rollo to discuss the proposed groundwater and seep monitoring locations for BBDA 3. As agreed among all the parties present during this site walk, two groundwater monitoring wells (BB3GW100 and BB3GW101) and four seep monitoring locations including one piezometer (BB3PZ101) and three fixed water monitoring points (BB3SW100, BB3SW101, and BB3SW102) were installed at BBDA 3 (Figure 5). Details on the site geology and hydrogeology and the new monitoring well and fixed water monitoring point locations, development, and sampling are presented in the following sections.

4.1 BBDA 3 Geology and Hydrogeology

A geologic cross section of the site is shown in Figure 11. As indicated in cross section A-A', prior to excavation the site was overlain by a layer of waste fill material up to 35 feet thick, consisting largely of sand mixed with construction debris and some municipal waste. This material was removed during remedial excavation. Near Lincoln Boulevard, a wedge of fill sand, which was placed to stabilize the road, is present. The upper portion of former BBDA 3 is now overlain by an exposed native beach/dune sand layer, approximately 10 to 20 feet thick and underlain by Colma formation soils. Approximately mid-way down the centerline of the excavated area, the beach/dune sand layer pinches out, and Colma soils are exposed. The Colma Formation is underlain by Franciscan complex bedrock, consisting of serpentinite and shale. Based on information collected to date, groundwater at the site flows generally westward. The groundwater has a surface water expression at the Colma/dune sand contact, along the northern flank of the ravine. It emerges as surface water seeps between the fixed water monitoring points BB3SW100 and BB3SW102.

As outlined above, following remedial excavation, two new groundwater monitoring wells, one piezometer, and three fixed water monitoring points were installed in the vicinity of former BBDA 3. Boring logs and well completion details are presented in Appendix I. Figure 11 presents a generalized geologic cross section based upon the boring logs of the recently installed monitoring

wells and existing data from the remedial excavation as well as historical site investigation activities. Materials encountered at monitoring wells BB3GW100 and BB3GW101 consisted of fill sand and native beach/dune sand to depths ranging from 21 feet to 36 feet bgs over stiff clays of the Colma Formation. At BB3GW101, Colma soils were present to a depth of 31 feet bgs, but BB3GW100 was terminated in the Colma Formation at a depth of 36.5 feet. Boring BB3GW101 was terminated in Franciscan complex shales and serpentine at a depth of 31.5 feet bgs. Saturated soils were encountered at approximately 30.5 feet bgs in the boring for BB3GW100 but were not encountered in the soil boring for BB3GW101.

Materials encountered while hand augering for piezometer BB3PZ101 consisted generally of dune sand to a depth of 17.5 feet bgs over sandy clay of the Colma Formation. Piezometer BB3PZ101 was terminated in the Colma Formation at 18 feet bgs, and saturated soils were encountered at approximately 16.5 feet bgs.

Well BB3GW100 is located immediately upgradient of the excavated area, at the toe of the buttress fill supporting Lincoln Boulevard and at the edge of Battery Crosby Road (Figure 5). Well BB3GW101 is located within the northern portion of the excavated area of former BBDA 3. Piezometer BB3PZ101 and fixed water monitoring points BB3SW100 through BB3SW102 are located generally along the centerline of the ravine than runs east-west across the excavated area. At well BB3GW100, the groundwater surface is located within dune sand at 30.5 feet bgs and approximately 5.5 feet above the Colma Formation contact (Figure 5 and Appendix I). At well BB3GW101, the groundwater was not present at the time of well installation to a depth of approximately 31 feet bgs but is likely located within the Franciscan complex, deeper than the bottom of the well (Appendix I). At piezometer BB3PZ101, water was encountered at a depth of 16.5 feet in dune sand, approximately 1.5 feet above the Colma Formation contact. At fixed water monitoring points BB3SW100 and BB3SW101, water was not encountered during installation. At monitoring point BB3SW102, water was encountered in dune sand within a few inches of the ground surface.

4.2 Monitoring Well, Piezometer, and Fixed Water Monitoring Point Installation, Development, and Sampling

Drilling and monitoring well installation was performed at former BBDA 3 on 6 December 2004. Treadwell & Rollo supervised the drilling of the soil borings performed by Gregg Drilling and Testing, Inc. (Gregg Drilling) of Martinez, California. A track-driven, limited access drill rig equipped with 8-inch-diameter hollow-stem augers was used for drilling at the site (Photo 32). Soil borings were advanced below the water table to total depths of 37 feet bgs and 32 feet bgs for installation of wells BB3GW100 and BB3GW101, respectively. Soil samples were collected at 5-foot intervals in each boring for lithologic description. As outlined in the RAP, no soil samples were retained for chemical analyses. The materials encountered at each boring were logged according to the Unified Soil Classification System by a Treadwell & Rollo

field geologist under the supervision of a California-registered geologist. The boring and well completion logs are included in Appendix I.

Drilling and sampling equipment were cleaned between borings. The soil cuttings were placed in the existing on-site waste soil stockpiles prior to off-site disposal as part of the site remediation activities.

A groundwater monitoring well was installed in each of the two soil borings in accordance with the QAPP and Trust SOPs. The groundwater monitoring wells were constructed of 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) casing with flush threads and 0.020-inch-slot well screen. A 10-foot length of well screen was installed for each well. Blank well casing was installed from the top of the screened casing to 3 feet above the ground surface. A sand filter pack (No. 2/12 sand) was installed in the borehole annulus from the bottom to approximately 1/2 foot to 1 foot above the screened casing. A 1-foot-thick seal of hydrated bentonite pellets was placed above the sand filter pack. The remainder of the borehole annulus was sealed with a neat cement grout. A locking water-tight well cap was placed on the well casing. The wells were completed with a monument ("stovepipe") surface box to protect the wellhead and to prevent water from entering the well. Well construction details are shown in Table 20 and on the boring logs (Appendix I).

On 13 December 2004, piezometer BB3PZ101 was installed in a hand-augered boring to a total depth of 18 feet. The materials encountered in the boring were logged according to the Unified Soil Classification System by a Treadwell & Rollo field geologist under the supervision of a California-registered geologist. The piezometer was constructed of 2-inch-diameter Schedule 40 PVC casing with flush threads and a 15-foot length of 0.020-inch-slot well screen. Blank well casing was installed from the top of the screened casing to 3 feet above the ground surface. The borehole annulus was backfilled to ground level with the local native dune sand. A locking water-tight well cap was placed on the well casing. A protective metal surface completion to prevent surface water from entering the well was not installed. The boring and well completion logs are included in Appendix I.

Three fixed water monitoring points were also installed at former BBDA 3 on 8 December 2004. Treadwell & Rollo performed the hand-augering and installation of the fixed water monitoring points (Photo 33). To install the fixed water monitoring points, a borehole was hand-augered to a depth of approximately 2.5 feet bgs for points BB3SW100, BB3SW101, and BB3SW102. The materials encountered at each boring were logged according to the Unified Soil Classification System by a Treadwell & Rollo field geologist under the supervision of a California-registered geologist. No soil samples were collected for chemical analyses. Augering equipment was cleaned between borings according to SOPs. The soil cuttings were used as backfill. The boring and well completion logs are included in Appendix I.

A fixed water monitoring point was installed in each of the three hand-augered borings. The QAPP and Trust SOPs do not provide any guidance for this type of installation. The monitoring points were constructed of 2-inch-diameter, 5-foot length Schedule 40 PVC casing with 0.020-inch-slot well screen. The top of the screened casing extends approximately 2 feet above the ground surface for all monitoring points. The native dune sand was placed in the borehole annulus from the bottom of the screened casing to the ground surface. A locking water-tight well cap was placed on the well casing. The fixed water monitoring point was finished without outer protective metal casings (Photo 28). Fixed water monitoring point construction details are shown in Table 20 and on the boring logs (Appendix I).

On 14 December 2004, well BB3GW100 was developed by Blaine Tech Services using surge and purge bailing methods in accordance with the QAPP and Trust SOPs. Groundwater field parameters (temperature, pH, conductivity, and turbidity) were measured and recorded throughout development. Development continued until the water removed from the monitoring well showed stabilization of field parameters, was relatively free of suspended sediments, or dry. Development was performed to enhance hydraulic connection between the well and the native formation. The purged water was stored in temporary water storage tanks located at the Central Magazine pending testing and disposal to the sanitary sewer under the Trust's industrial wastewater discharge permit. The well development log is included in Appendix J. A water level measurement in new monitoring well BB3GW101 indicated that the well was dry.

On 23 December 2004, Chaudhary & Associates, in conjunction with periodic slope stability monitoring, surveyed the top of casing elevations of the newly installed monitoring wells and surface water monitoring points. In accordance with the QAPP, the horizontal values are based on NAD27, Zone 3, and the elevations are referenced to Presidio Lower Low Water datum of 1907 (PLLW). The surveyed locations and elevations for wells BB3GW100 and BB3GW101, piezometer BB3PZ101 and fixed water monitoring points BB3SW100 through BB3SW102 are included on the boring logs (Appendix I). Top of casing elevations are also shown in Table 20.

4.3 Groundwater and Surface Water Sampling

No groundwater monitoring activities took place at BBDA 3 during the Third Quarter 2004 because the remedial action was in progress and no groundwater monitoring well, piezometer, or fixed water monitoring point locations had yet been established. During the Fourth Quarter 2004, groundwater elevations were measured and groundwater sampling was attempted at BBDA 3 within the two new groundwater monitoring wells (BB3GW100 and BB3GW101) and the four seep monitoring locations, including the one piezometer (BB3PZ101) and the three fixed water monitoring points (BB3SW100 through BB3SW102). BBDA 3 sampling locations BB3GW101 and BB3SW100 were dry during the Fourth Quarter 2004 and therefore no groundwater elevations or samples were collected at these locations.

Water level meters were calibrated on 13 December 2004. The calibration logs can be found in Appendix J. Groundwater elevation field forms can also be found in Appendix J.

4.3.1 Groundwater Level Measurements and Interpretation

As stated above, no groundwater elevation measurements were collected during the Third Quarter 2004. Groundwater elevation measurements during the Fourth Quarter 2004 were collected on 13 December 2004 at monitoring well BB3GW100, piezometer BB3PZ101, and fixed water monitoring point locations BB3SW101 and BB3SW102. Monitoring well BB3GW101 and fixed water monitoring point location BB3SW100 were dry on 13 December 2004 and therefore no groundwater elevation data were collected.

During the Fourth Quarter 2004, groundwater elevations were 161.04 and 140.17 feet above PLLW in monitoring well BB3GW100 and BB3PZ101 piezometer, respectively. Groundwater elevations were also measured at BB3SW101 (75.76 feet above PLLW) and BB3SW102 (112.66 feet above PLLW) during the Fourth Quarter 2004. Groundwater elevations are illustrated on Figure 12.

To gain a broader understanding of groundwater gradients and flow directions in the BBDA 3 area, the groundwater elevations were evaluated with Fill Site 5 measurements. During the Fourth Quarter 2004, the groundwater flow direction across BBDA 3 was observed to be in a southwesterly direction toward the Pacific Ocean following the general topographic trend. The groundwater gradient at BBDA 3 between BB3GW100 and BB3PZ101 was calculated to be approximately 0.16 feet per foot during the Fourth Quarter 2004. Additionally, the groundwater gradient between LF5GW101 and BB3PZ101 was calculated to be approximately 0.25 feet per foot during the Fourth Quarter 2004.

4.3.2 Monitoring Well Purging and Sampling

During the Fourth Quarters 2004, BBDA 3 monitoring well BB3GW100 was purged and sampled on 14 December 2004. Monitoring well BB3GW101 was dry during the Fourth Quarter 2004 and therefore could not be purged or sampled. The piezometer BB3PZ101 and fixed water monitoring points BB3SW101 and BB3SW102 were sampled on 16 and 17 December 2004. Fixed water monitoring points BB3SW100 was dry during the Fourth Quarter 2004 and could not be sampled. Fixed water monitoring point BB3SW101 did contain water, but dewatered during sampling activities and did not recharge sufficiently for a complete sample suite to be collected. All sampling locations were sampled in accordance with methods shown in Table J-1 and procedures described in the *Field Sampling Plan* (Treadwell & Rollo, 2001). As noted, the monitoring wells are listed as “modified” (purged and sampled); the piezometer and fixed water monitoring points as “surface” (no purge, sample only).

Purging equipment, purging volumes, purge water parameters, and sampling equipment for each sampling location are described in the purge records at the conclusion of this section. Purge water was stored for future disposal in one of two 2,800-gallon aboveground polyethylene storage tanks, which are located at the Central Magazine.

4.3.3 Groundwater Analytical Program

As presented in Section 2.3.2, all groundwater samples were submitted to the project laboratory for the following analyses: TPHg, TPHd, and TPHfo, 22 total (seep samples only) and dissolved metals, general chemistry analyses, and dissolved oxygen.

QA/QC samples were collected as part of this program. Section 2.3 discusses the QA/QC sampling and analysis performed for the Fourth Quarter.

4.4 Groundwater Analytical Results

No groundwater samples were collected at BBDA 3 during the Third Quarter 2004 because the remedial action was in progress and no groundwater monitoring wells or seep locations had yet been established. During the Fourth Quarter 2004, groundwater samples were collected from one new monitoring well (BB3GW100), the one piezometer (BB3PZ101) and two fixed water monitoring points (BB3SW101 and BB3SW102). Monitoring well BB3GW101 and fixed water monitoring point BB3SW100 were observed to be dry during the Fourth Quarter 2004 and therefore could not be purged and/or sampled. As noted above, fixed water monitoring point BB3SW101 dewatered during sampling and did not recharge water sufficiently, and therefore a complete sample suite could not be collected. With the exception of fixed water monitoring point BB3SW101, all samples were analyzed for dissolved oxygen, general chemistry parameters, TDS, TPHg, TPHd, TPHfo, and dissolved metals. In addition, piezometer BB3PZ101 and fixed water monitoring point BB3SW102 were analyzed for total metals.

During evaluation of the preliminary groundwater data results from BB3PZ101 and BB3SW102 for dissolved metals, high concentrations prompted a call to the project laboratory. The laboratory identified a sample preparation error for the initial analytical run in December 2004 from BB3PZ101 and BB3SW102 of dissolved metals, which produced erroneous results. The samples were subsequently correctly prepared and re-analyzed in March 2005. The results of dissolved metals for BB3PZ101 and BB3SW102 presented in this report reflect the March 2005 analytical run.

A sufficient amount of data has not yet been collected to evaluate concentration trends and therefore, a discussion of relative concentrations of the detected analyses between the wells and fixed water monitoring points is provided below.

Current and historical groundwater and seep analytical results are presented in Tables 21 through 24.

4.4.1 Dissolved Oxygen and General Chemistry Results

Dissolved oxygen results are presented in Table 21. During the Fourth Quarter 2004 dissolved oxygen ranged from 2.2 and 8 mg/L in monitoring wells BB3GW100 and fixed water monitoring point BB3SW101, respectively. A sufficient amount of dissolved oxygen data has not yet been collected from these locations to develop trends, but higher concentrations of dissolved oxygen are observed in the shallower fixed water monitoring points and the piezometer versus the monitoring well. This initial trend may be a result of the sampling methodology differences (purge and sample verses no purge, sample only) between the monitoring well and fixed water monitoring point locations.

General chemistry analytical results are presented in Table 21. In general, nitrate and sulfate concentrations were slightly higher in piezometer BB3PZ101 and fixed water monitoring point BB3SW102 than in monitoring well BB3GW100. Conversely, the chloride concentration detected in monitoring well BB3GW100 is higher than those detected in BB3PZ101 and BB3SW102. This trend will continue to be monitored during future sampling events.

4.4.2 TPH Results

The analytical results for TPHg, TPHd, and TPHfo, along with the RAP-specified cleanup levels, are presented in Table 23. No TPH compounds were detected above laboratory limits within any groundwater or seep (fixed water monitoring point and piezometer) samples collected from BBDA 3 during the Fourth Quarter 2004.

4.4.3 Total and Dissolved Metals Results

The total and dissolved metals results for Fourth Quarter 2004, along with RAP-specified cleanup levels, are presented in Table 24. All BBDA 3 groundwater and seep (fixed water monitoring point and piezometer) samples collected during the Fourth Quarter 2004 were analyzed for dissolved metals. At the request of DTSC, seep samples (BB3PZ101 and BB3SW102) were also analyzed for total metals using unfiltered samples in order to collect data that can be used in ecological risk comparisons.

No dissolved metals were reported in excess of RAP-specified cleanup levels in either groundwater or seep samples.

Two seep samples had total metals results that exceeded RAP-specified cleanup levels for dissolved metals. Total copper was detected above the RAP-specified cleanup level for dissolved copper of 11.8 microgram per liter (µg/L) within BB3PZ101 and BB3SW102 during the Fourth Quarter 2004. Additionally, total nickel was detected above the RAP-specified cleanup level for dissolved nickel of 100 µg/L within BB3SW102 (150 µg/L) during the Fourth Quarter 2004.

As noted previously, the unfiltered samples for total metals analyses were collected at the request of DTSC for use in ecological risk comparisons. However, for the protection of ecological receptors, the RAP-specified cleanup levels for copper are from the Basin Plan, which states that objectives for metals are expressed in terms of the dissolved fraction of the metal in the water column (RWQCB, 1995). Because the surface water criteria from the Basin Plan are expressed in terms of dissolved concentrations rather than total concentrations, it is more appropriate to compare the dissolved concentrations to the RAP-specified cleanup levels for the purposes of assessing the potential for water quality impacts for ecological receptors. Because dissolved copper concentrations in BBDA 3 seep samples did not exceed the RAP-specified cleanup level for dissolved copper, ecological impacts from copper in the seep water are not expected.

The RAP-specified cleanup level for nickel is a drinking water maximum contaminant level (MCL). While the MCL is based on a total nickel concentration, unfiltered seep samples from the site are not representative of metals concentrations at the point of exposure for dinking water purposes or within a drinking water supply system. The total nickel concentrations of 59 μg/L at BB3PZ101 and 150 μg/L at BB3SW102, as well as the dissolved nickel concentrations (<20 μg/L at both locations), do not exceed the surface water quality criterion from the Basin Plan of 158 μg/L for dissolved nickel (EKI, 2002). Therefore, ecological impacts from nickel in BBDA 3 seep water are also not expected.

Clear trends are not yet apparent for BBDA 3 total and dissolved metal concentrations. Future total and dissolved metal results will be collected at BBDA 3 as part of the Presidio-wide Groundwater Monitoring Program in accordance with the RAP and trends will be identified as they become apparent.

4.4.4 BBDA 3 Groundwater Sample Data Validation

VOCs

Reporting Limits: Reporting limits for the trip blank sample were somewhat elevated for bromoform, bromomethane, chloroethane, and chloromethane. For all other samples, the laboratory reporting limits met the project-required reporting limits.

TPH Gasoline Range

The laboratory reporting limit met the project-required reporting limit, and qualification was not required for any results.

TPH Diesel/Fuel Oil Range

The laboratory reporting limit met the project-required reporting limit, and qualification was not required for any results.

Metals

The laboratory reporting limits met the project-required reporting limits, and qualification was required for one sample result. Sample LF4GW103 was the parent sample used for the QC batch. The serial dilution for dissolved calcium failed in this parent sample at 14%, which is outside the 10% difference acceptance criteria. All samples in the same QC batch were qualified as a result of the failure. Sample BB3GW100 was in the QC batch, and was qualified (J) due to this failure.

General Chemistry and TDS

The laboratory reporting limit met the project-required reporting limit, and qualification was not required for any results.

Field Duplicate Samples

Field duplicate samples were collected in accordance with the Presidio-wide Monitoring and Sampling Program. Groundwater duplicates samples were collected and submitted to two separate analytical laboratories for a QC check. No field duplicates were collected at the BBDA 3 site. However, a total of nine field duplicate samples were collected and sent to the primary analytical laboratory (Curtis & Tompkins) and five field duplicates were collected and sent to a separate analytical laboratory (Columbia Analytical) as a QC check. The results of the field duplicate analyses are reported in the *Semi-Annual Groundwater Monitoring Report, Third and Fourth Quarters 2004* (Treadwell & Rollo, 2005a).

5.0 VARIANCES FROM WORK PLAN

Based on technical and practical considerations, certain aspects of the BBDA 3 and BBDA 4 remedial work deviated from the Work Plan (Treadwell & Rollo, 2004d) and Construction Plans and Specifications (Minshew Engineering and Treadwell & Rollo, 2004). Variances from these documents are described below.

5.1 Increase in Excavation Volume at BBDA 3 and 4

As stated in the RAP and noted in Sections 1.1.1.1 and 1.1.1.2, the pre-construction estimated volume of fill material at BBDA 3 was 33,000 cy, and the estimated volume of impacted fill material at BBDA 4 was 180 cy. The actual volumes excavated from BBDA 3 and BBDA 4 were 37,493 and 452 bank cubic yards, respectively, as calculated from field surveys performed before and after excavation (Figures 8 and 9).

5.2 Actual Limits of Waste Differ from Limits Indicated in RAP

The estimated limit of fill outlined in the RAP for the northwestern quadrant of BBDA 3 was found to be located farther south and downslope. A visual field inspection of the slope indicated that the material present did not consist of fill. This conclusion was based on the presence of native beach/dune sand revealed by potholing the area and verified by confirmation sampling. Sampling locations BB3EX102[0.5], BB3EX105[0.5], BB3EX110[0.5], and BB3EX135[0.5] are located on the slope, and analytical results for these samples meet all applicable cleanup levels. Therefore, the actual limits of waste were adjusted such that this slope was not excavated. As indicated on Figure 4, the remediation contractor, at the direction of NPS personnel, removed non-native vegetation growing on the slope while not disturbing remaining native vegetation. As the excavation progressed upslope (eastward), visual cues were used to determine the interface between fill and native soil which were then verified by confirmation sampling and analysis. The limits of fill estimated in the RAP and the actual limits of fill are both indicated on Figure 4.

5.3 BBDA 3 Combined Perimeter and Grid Sampling Locations

Section 2.9.2 of the Work Plan states that bottom samples will be collected on a 75- by 75-foot sampling grid, and that perimeter samples will be collected at a rate of one sample per 75 feet of the perimeter extent. No sidewall sampling was found to be necessary, as no sidewalls in excess of 1 foot in height were created by the remedial excavation. During confirmation sampling, it was noted that some of the bottom/grid samples were located along or very close to the perimeter of the excavation. During the site walk on 27 October 2004, DTSC accepted the suggestion to allow, where appropriate, the same sample to serve as both a “bottom” and a “perimeter” sample; all such sampling locations were approved by DTSC during the final site walk of 5 January 2005. The “combined” sampling locations are indicated on Figure 4 with a unique symbol.

5.4 Additional Sampling Requested by DTSC

During the 27 October 2004 site walk with DTSC, the Trust, and Treadwell & Rollo representatives to discuss BBDA 3 and BBDA 4 confirmation sample results, it was agreed that several additional sampling locations along the approximate centerline of the ravine excavated east-west across the site were needed. A visual inspection of the sampling grid indicated that existing bottom/grid sample locations would not provide coverage along the lowest points (the bottom of the ravine) across the site. Therefore, sampling locations BB3EX116[0.5], BB3EX130[0.5], BB3EX138[0.5], and BB3EX139[0.5] were added to fill this data gap. All confirmation sampling locations are shown on Figure 4.

5.5 Erosion Control Measures and Re-vegetation at BBDA 3

With the onset of rains in December 2004, it became apparent that erosion control measures would need to be augmented across the BBDA 3 site to decrease the rate of erosion that was taking place. Thus, some of the final erosion control measures for BBDA 3 indicated on Figure 5 differ, in localized areas, from those shown in the project plans. It should be noted that although the final erosion control plan for BBDA 3 showed that the entire site would be covered by erosion control fabric, NPS had indicated during design consultations that blanket coverage over exposed dune sand would be highly undesirable. A dynamic, open sand dune environment was preferred by the NPS for implementing the site re-vegetation plan. Since it was not known in advance what portion of the native material exposed by waste excavation would be dune sand (as opposed to Colma formation clays or serpentinite), it was decided that for bidding purposes the drawings would show erosion control fabric across the entire site, but a note was added explaining that field adjustments to the location and type of erosion control materials would be made in consultations among the Trust, NPS, and design engineer to accommodate conditions actually encountered. Since the native material actually exposed was largely dune sand, only a limited amount of erosion control fabric was installed in the lower portion of BBDA 3 in conjunction with the sand bag check dams and silt fencing.

The installation of sand bag check dams and a pipe to collect and divert seep water flow to the beach were added as a modification to the original final erosion control measures presented in the Plans and Specs. Periodic rainfall is effectively managed by the straw wattle and silt fence erosion control measures. However, because the dune sand has little cohesion, the constant flow of water from the seeps caused severe erosion including incising and movement of the sand. The water flow was reduced by diverting the water. The sand bag check dams positioned at regular intervals near the bottom of the slope successfully slowed the flow of water and facilitated deposition of mobilized sand. An additional erosion control measure that was not included in the Plans and Specs but was installed by the NPS is the willow mattress located at the toe of the slope.

5.6 Slope Stability Monitoring for Lincoln Boulevard

The Work Plan did not call for any slope stability monitoring. However, at the request of DTSC and as recommended in the *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004b), three slope stability monitoring points were established along Lincoln Boulevard, at the top of the engineered fill embankment supporting the road. These points were surveyed approximately every two weeks, and the results forwarded to the Trust. As noted in Section 3.2.1, the survey data, specifically the accumulative horizontal and vertical movement, were examined each time to assess whether any movement had taken place. The magnitude of the net movement observed during the last surveying event (-0.011 to 0.016 feet) was within the margin of acceptable measurement variability and/or road conditions such as thermal expansion or vibration from passing vehicles during surveying. Thus all measurements indicated that site excavation activities had no adverse impact on the slope that supports Lincoln Boulevard (Table 5).

5.7 Steeper Post-Excavation Slopes at BBDA 3

Although the areal extent of the waste was not as large as had been anticipated in the RAP, it was found that the depth of waste at BBDA 3 was greater than anticipated. Consequently, the final slopes at BBDA 3, particularly at the eastern end of the exposed ravine immediately below Battery Crosby Road, are somewhat steeper than anticipated in the project plans. A post-construction analysis preformed by Treadwell & Rollo and documented in the *Slope Stability Evaluation of Final Slope Configurations, Baker Beach Disturbed Area 3* memorandum (Treadwell & Rollo, 2005b) indicates that these slopes will likely be prone to localized shallow raveling-type erosional failures (Appendix K). These types of failures will likely continue on the steep slopes on the north and south sides of the ravine. Furthermore, the steep slopes at the western boundary of BBDA 3 will continue to be marginally stable, as the Factor of Safety is approximately 1.3.

5.8 Changes to the BBDA 3 Groundwater and Surface Water Monitoring Network

Section 2.5 of the Work Plan calls for the installation and monitoring of three new groundwater monitoring wells and the monitoring of at least one surface water seep at BBDA 3. The post-construction topography of the BBDA 3 site made it infeasible to access the center of the former landfill footprint with even a limited-access drill rig. Therefore, in consultation with representatives of the DTSC, Trust, NPS, and Treadwell & Rollo during a site walk on 27 October 2004, it was agreed to locate fixed water monitoring points not only at the downgradient edge of the excavated area (BB3SW100), but also in three locations along the approximate centerline of the ravine that bisects the site east to west (BB3SW101, BB3SW102, and BB3PZ101). Two groundwater monitoring wells, BB3GW100 and BB3GW101, were installed in general accordance with the Work Plan. Final groundwater monitoring well and fixed water monitoring point locations are shown on Figure 12.

5.9 Stockpiling of Excavated Material from BBDA 4

Section 2.7.2 of the Work Plan anticipated that some stockpiling and segregation of material may occur on the portion of Battery Chamberlin Road immediately adjacent to the site at BBDA 4. All the material excavated from BBDA 4 was classified as Class II waste, whereas a relatively small portion of BBDA 3 material was Class II. It was therefore more expedient to stockpile the BBDA 4 material alongside the Class II BBDA 3 material within the footprint of BBDA 3 so that all of the material could be off-hauled at the same time using the same fleet of trucks.

6.0 SUMMARY AND CONCLUSIONS

Between 8 July 2004 and 13 January 2005, a total of 57,914 tons (approximately 37,493 cy) of waste material was removed from former BBDA 3. The majority of the material (75 percent) was disposed as Class I CalHaz waste based on the soluble lead concentrations. Soil confirmation sample concentrations, 95% UCL calculations, or other data evaluation methods determined that the site conditions meet the goals presented in the RAP for all compounds tested (both COC and non-COC compounds). All waste material has been removed from BBDA 3. As anticipated in the RAP and as documented in this report, BBDA 3 meets the "target" human health criteria for residential land use in addition to being protective of special status species ecological receptors. BBDA 3 is therefore suitable for unrestricted land use.

Between 5 and 7 October 2004, a total of 600 tons (approximately 452 cy) of waste material was removed from the former BBDA 4 site. Approximately 86 percent of the fill material was disposed as Class II waste, and the remainder was disposed as Class III waste. Soil confirmation sample concentrations for all compounds tested (both COC and non-COC compounds) determined that the site soil conditions meet the goals presented in the RAP. All impacted fill material has been removed from BBDA 4. As anticipated in the RAP and as documented in this report, BBDA 4 meets the "target" human health criteria for residential land use in addition to being protective of special status species ecological receptors. BBDA 4 is therefore suitable for unrestricted land use.

Both BBDA 3 temporary piezometers were abandoned in June 2004, prior to commencement of remedial construction activities. No groundwater monitoring activities took place at BBDA 3 during the Third Quarter 2004 because the remedial action was in progress and no groundwater monitoring wells or seep monitoring locations had yet been established. Following the excavation activities, two groundwater monitoring wells and four seep monitoring points (one piezometer and three fixed water monitoring points) were installed and included in the Presidio-wide Groundwater Monitoring Program. Due to limited data collected to date, no significant trends were identified during the Fourth Quarter 2004 at BBDA 3. Future detections and trends will continue to be monitored and evaluated in accordance with the RAP. Groundwater and seep monitoring will continue per the RAP for three years as part of the Presidio-wide Groundwater Monitoring Program. The data will then be reviewed to determine whether applicable cleanup levels have been achieved and monitoring is considered complete.

Based on the remedial activities conducted, field observations, established cleanup levels, and a review and evaluation of the confirmation sampling results, BBDA 3 and BBDA 4 are recommended for construction completion.

7.0 REFERENCES

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TABLES

Table 1A
Soil Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Soil (mg/kg)	Laboratory Detection Limit Soil (mg/kg)	Soil Cleanup Level (mg/kg)				Soil Cleanup Level (mg/kg)			
			Recreational - Serpentine Ecological - Special Status	Recreational - Colma Ecological - Special Status	Recreational - Beach/Dune Ecological - Special Status	Recreational - Chert Ecological - Special Status	Residential - Serpentinite Ecological - Special Status[1]	Residential - Colma Ecological - Special Status[1]	Residential - Beach/Dune Ecological - Special Status[1]	Residential - Chert Ecological - Special Status[2]
Inorganic Chemicals (Methods 6010/6020)										
Antimony	0.2	3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Arsenic	0.2	0.25	5.4	6.2	5.9	3.2	5.4	6.2	5.9	3.2
Barium	0.1	1	320	320	320	900	320	320	320	900
Beryllium	0.1	0.1	10	10	10	10	10	10	10	10
Cadmium	0.1	0.25	1.9	0.8	1.7	1.7	1.9	0.8	1.7	1.7
Chloride	--	--	--	--	--	--	--	--	--	--
Chromium (Cr(VI) & Cr(III))	0.2	0.5	1,700	140	120	41	1,700	140	120	41
Cobalt	0.1	1	170	21	20	37	170	21	20	37
Copper	0.2	0.5	85	49	43	360	85	49	43	360
Lead	0.1	0.15	160	160	160	160	160	160	160	160
Tetraethyl Lead	--	--	0.013	0.013	0.013	0.013	0.0052	0.0052	0.0052	0.0052
Molybdenum	0.1	1	12	12	12	12	12	12	12	12
Nickel	0.2	1	4,500	110	70	71	4,500	110	70	71
Selenium	0.2	0.25	0.5	0.5	0.75	0.5	0.5	0.5	0.75	0.5
Silver	0.1	0.25	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Thallium	0.1	0.25	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Vanadium	1.0	0.5	74	90	92	61	74	90	92	61
Zinc	0.2	1	160	60	66	120	160	60	66	120
Semivolatile Organic Compounds (Method 8270C)										
Acenaphthene	0.33	0.05	30	30	30	30	30	30	30	30
Acenaphthylene	0.33	0.05	30	30	30	30	30	30	30	30
Anthracene	0.33	0.05	30	30	30	30	30	30	30	30
Benzo(a)anthracene	0.33	0.05	0.65	0.65	0.65	0.65	0.27	0.27	0.27	0.27
Benzo(a)pyrene	0.33	0.05	0.065	0.065	0.065	0.065	0.027	0.027	0.027	0.027
Benzo(b)fluoranthene	0.33	0.05	0.65	0.65	0.65	0.65	0.27	0.27	0.27	0.27
Benzo(g,h,i)perylene	0.33	0.05	30	30	30	30	30	30	30	30
Benzo(k)fluoranthene	0.33	0.05	0.65	0.65	0.65	0.65	0.27	0.27	0.27	0.27
Benzyl Alcohol	0.33	0.33	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Bis(2-ethylhexyl)phthalate			--	--	--	--	--	--	--	--
Chrysene	0.33	0.05	6.5	6.5	6.5	6.5	2.7	2.7	2.7	2.7
Dibenzo(a,h)anthracene	0.33	0.05	0.19	0.19	0.19	0.19	0.078	0.078	0.078	0.078
Dibenzofuran	0.33	0.33	2,200	2,200	2,200	2,200	910	910	910	910
Fluoranthene	0.33	0.05	30	30	30	30	30	30	30	30
Fluorene	0.33	0.05	30	30	30	30	30	30	30	30
Indeno(1,2,3-c,d)pyrene	0.33	0.05	0.65	0.65	0.65	0.65	0.27	0.27	0.27	0.27
2-methylnaphthalene	0.33	0.33	30	30	30	30	30	30	30	30
2-methylphenol (o-Cresol)	--	--	--	--	--	--	--	--	--	--
4-methylphenol (p-Cresol)	0.33	0.33	50	50	50	50	50	50	50	50
Naphthalene	0.33	0.05	30	30	30	30	30	30	30	30
n-dotriacontane	--	--	--	--	--	--	--	--	--	--
n-hentriacontane	--	--	--	--	--	--	--	--	--	--
n-nitrosodiphenylamine	0.33	0.33	20	20	20	20	20	20	20	20
n-triacontane	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	1.6	1.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Phenanthrene	0.33	0.05	30	30	30	30	30	30	30	30
Phenol	0.33	0.33	30	30	30	30	30	30	30	30
Polycyclic Aromatic Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Pyrene	0.33	0.05	30	30	30	30	30	30	30	30

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Volatile Organic Compounds (Method 8260B)										
Acetone	0.01	0.02	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--
2-butanone (MEK)	0.01	0.01	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Carbon disulfide	0.005	0.005	200	200	200	200	200	200	200	200
Carbon Tetrachloride	--	--	--	--	--	--	--	--	--	--
Chlorodibromomethane	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	--	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--	--	--
1,4-dichlorobenzene	--	0.005	0.59	0.59	0.59	0.59	0.13	0.13	0.13	0.13
1,2-dichloroethane	--	--	--	--	--	--	--	--	--	--
1,1-dichloroethane	--	--	--	--	--	--	--	--	--	--
cis 1,2-dichloroethane	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (p-cymene)	--	--	130	130	130	130	130	130	130	130
Methylene Chloride	0.005	0.02	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
Tetrachloroethene	--	--	--	--	--	--	--	--	--	--
1,2,3-trichloroethane	--	--	--	--	--	--	--	--	--	--
1,2,4-trichloroethane	--	--	--	--	--	--	--	--	--	--
1,1,1-trichloroethane	0.01	0.005	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Trichloroethene	0.01	0.05	--	--	--	--	--	--	--	--
Trichlorofluoromethane	--	0.005	80	80	80	80	40	40	40	40
PCBs, Pesticides, and Herbicides (Methods 8081, 8082 & 8150)										
PCBs (Aroclor 1254)	0.033	0.012	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
Aldrin	0.002	0.002	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
alpha-BHC	0.002	0.002	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
beta-BHC	0.002	0.002	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
delta-BHC	0.002	0.002	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
Chlordane	0.002	0.002	0.0090	0.0090	0.0090	0.0090	0.0090	0.0090	0.0090	0.0090
2,4-D	0.025	--	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
4,4'-DDD	0.004	0.002	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
4,4'-DDE	0.004	0.002	0.098	0.098	0.098	0.098	0.098	0.098	0.098	0.098
4,4'-DDT	0.004	0.002	0.0082	0.0082	0.0082	0.0082	0.0082	0.0082	0.0082	0.0082
Dicamba	0.01	--	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Dieldrin	0.004	0.002	0.039	0.039	0.039	0.039	0.030	0.030	0.030	0.030
Endosulfan	0.002	0.002	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Endosulfan Sulfate	0.004	0.002	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Endrin	0.004	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Endrin Aldehyde	--	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Endrin Ketone	0.004	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
gamma-BHC (Lindane)	0.002	0.002	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Heptachlor	0.002	0.002	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Heptachlor Epoxide	0.002	0.002	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Isodrin	--	--	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039
MCPP	5.0	--	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Methoxychlor	0.02	0.02	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44

Table 1A
Soil Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Soil (mg/kg)	Laboratory Detection Limit Soil (mg/kg)	Soil Cleanup Level (mg/kg)				Soil Cleanup Level (mg/kg)			
			Recreational - Serpentine Ecological - Special Status	Recreational - Colma Ecological - Special Status	Recreational - Beach/Dune Ecological - Special Status	Recreational - Chert Ecological - Special Status	Residential - Serpentinite Ecological - Special Status[1]	Residential - Colma Ecological - Special Status[1]	Residential - Beach/Dune Ecological - Special Status[1]	Residential - Chert Ecological - Special Status[2]
Petroleum Hydrocarbons (Method 8015 Modified)										
TPH as gasoline (C7 - C12)	1.0	1	610	610	610	610	610	610	610	610
TPH as diesel (C12 - C24)	10	1	700	700	700	700	700	700	700	700
TPH as fuel oil (C24 - C36)	10	5	980	980	980	980	980	980	980	980
BTEX Compounds (Method 8260B)										
Benzene	0.005	0.005	1.5	1.5	1.5	1.5	0.6	0.6	0.6	0.6
Ethylbenzene	0.005	0.005	60	60	60	60	60	60	60	60
Toluene	0.010	0.005	270	270	270	270	270	270	270	270
Total Xylenes	0.005	0.005	55	55	55	55	55	55	55	55

Notes
mg/kg - milligrams per kilogram
Shading indicates target cleanup levels.

[1] Cleanup levels for soil are based on the most stringent of the values for protection of human health (recreational or residential land use), protection of ecological receptors (ecological special status species and terrestrial receptors), and maintaining drinking water standards in groundwater (soils greater than 5 feet above groundwater). In the case of metals, if the background concentration for a particular lithology (Serpentinite, Colma, or Beach/Dune Sand, as noted) is greater than the most stringent cleanup level, then the background concentration applies as the cleanup level. Source: Table 7-2 (non-petroleum compounds) and Table 7-5 (petroleum hydrocarbons and constituents) in the Cleanup Levels Document (EKI, 2002).

[2] Cleanup levels for serpentinite, Colma, and beach/dune sand have been approved in the RAP (Treadwell & Rollo, 2004a). Cleanup levels for chert have been derived from the Clean Levels Document (EKI, 2002).

Table 1B
Groundwater and Surface Water Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Water (mg/L)	Laboratory Detection Limit Water (M108)	Groundwater and Surface Water Seep Cleanup Level (mg/L)
			Drinking Water Freshwater Seep[1]
Inorganic Chemicals (Methods 6010/6020)			
Antimony	2.0	1.0	6
Arsenic	2.0	1.0	10
Barium	1.0	1	1,000
Beryllium	1.0	1.0	4
Cadmium	1.0	1.0	1.1
Chloride	--	100	250000
Chromium (Cr(VI) & Cr(III))	2.0	1.0	50
Cobalt	1.0	1.0	--
Copper	2.0	1.0	11.8
Lead	1.0	3	3.2
Tetraethyl Lead	--	--	--
Molybdenum	1.0	20	--
Nickel	2.0	1.0	100
Selenium	2.0	5	5
Silver	1.0	1.0	4.1
Thallium	1.0	1.0	2
Vanadium	10	10	--
Zinc	2.0	1.0	106
Semivolatile Organic Compounds (Method 8270C)			
Acenaphthene	10	5	--
Acenaphthylene	10	10	--
Anthracene	10	0.5	770
Benzo(a)anthracene	10	0.1	0.1
Benzo(a)pyrene	10	0.1	0.2
Benzo(b)fluoranthene	10	0.2	0.2
Benzo(g,h,i)perylene	10	0.2	150
Benzo(k)fluoranthene	10	0.1	2
Benzyl Alcohol	10	10	--
Bis(2-ethylhexyl)phthalate	10	10	4
Chrysene	10	0.1	20
Dibenzo(a,h)anthracene	10	0.2	--
Dibenzofuran	10	10	--
Fluoranthene	10	0.4	300
Fluorene	10	1.0	300
Indeno(1,2,3-c,d)pyrene	10	0.14	--
2-methylnaphthalene	10	10	--
2-methylphenol (o-Cresol)	--	10	--
4-methylphenol (p-Cresol)	--	10	--

Table 1B
Groundwater and Surface Water Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Water (mg/L)	Laboratory Detection Limit Water (M108)	Groundwater and Surface Water Seep Cleanup Level (mg/L) Drinking Water Freshwater Seep[1]
Semivolatile Organic Compounds (cont.)			
Naphthalene	10	5	300
n-dotriacontane	--	--	--
n-hentriacontane	--	--	--
n-nitrosodiphenylamine	10	10	--
n-triacontane	--	--	--
Pentachlorophenol	50	10	1
Phenanthrene	10	0.5	230
Phenol	10	10	1
Polycyclic Aromatic Hydrocarbons	--	--	--
Pyrene	10	0.2	230
Volatile Organic Compounds (Method 8260B)			
Acetone	10	10	--
Bromodichloromethane	0.5	0.5	80
2-butanone (MEK)	10	10	--
Carbon disulfide	5.0	0.5	--
Carbon Tetrachloride	0.5	0.5	0.5
Chlorodibromomethane	0.5	0.5	0.4
Chlorobenzene	0.5	0.5	70
Chloroform	0.5	0.5	80
Chloromethane	0.5	1.0	--
1,4-dichlorobenzene	2.4	0.5	5
1,2-dichloroethane	0.5	0.5	0.5
1,1-dichloroethane	--	--	6
cis 1,2-dichloroethane	--	--	6
p-Isopropyltoluene (p-cymene)	--	--	--
Methylene Chloride	4.5	5	5
Tetrachloroethene	0.5	0.5	5
1,2,3-trichloroethane	--	--	7
1,2,4-trichloroethane	--	--	7
1,1,1-trichloroethane	0.5	0.5	200
Trichloroethene	0.5	0.5	5
Trichlorofluoromethane	--	0.5	150
PCBs, Pesticides, and Herbicides (Methods 8081, 8082 & 8150)			
PCBs (Aroclor 1254)	--	0.5	0.014
Aldrin	0.05	0.025	--
alpha-BHC	--	--	--
beta-BHC	--	--	0.3

Table 1B
Groundwater and Surface Water Cleanup Levels
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit Water (mg/L)	Laboratory Detection Limit Water (M108)	Groundwater and Surface Water Seep Cleanup Level (mg/L) Drinking Water Freshwater Seep[1]
PCBs, Pesticides, and Herbicides (cont.)			
delta-BHC	--	--	--
Chlordane	0.5	0.25	0.0043
2,4-D	0.25	1.0	70
4,4'-DDD	0.1	0.05	--
4,4'-DDE	0.1	0.05	--
4,4'-DDT	0.1	0.05	0.001
Dicamba	0.25	1.0	--
Dieldrin	0.1	0.05	0.056
Endosulfan	0.05	0.025	0.056
Endosulfan Sulfate	0.1	0.05	0.056
Endrin	0.1	0.05	0.036
Endrin Aldehyde	--	0.05	0.036
Endrin Ketone	0.1	0.05	0.036
gamma-BHC (Lindane)	0.05	0.025	
gamma-BHC (Lindane)	0.05	0.025	0.2
Heptachlor	0.05	0.025	0.0038
Heptachlor Epoxide	0.05	0.025	0.0038
Isodrin	--	0.05	--
MCPP	100	500	--
Methoxychlor	0.5	0.25	40
Petroleum Hydrocarbons (Method 8015 Modified)			
TPH as gasoline (C7 - C12)	50	50	443
TPH as diesel (C12 - C24)	50	50	880
TPH as fuel oil (C24 - C36)	300	300	1,200
Benzene	0.01	0.5	1
Ethylbenzene	0.05	0.5	700
Toluene	0.5	0.5	150
Total Xylenes	0.5	0.5	318

Notes
µg/L - micrograms per liter
Shading indicates target cleanup levels.

[1] Cleanup levels for groundwater and surface water seeps are based on the most stringent of the values for maintaining water quality criteria for drinking water and freshwater seeps. Source: Table 7-6 in Cleanup Levels Document (EKI, 2002). These cleanup levels have been approved in the RAP (Treadwell & Rollo, 2004a).

Table 2
Soil Cleanup Levels
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit (mg/kg)	Laboratory Detection Limit (mg/kg)	Soil Cleanup Levels (mg/kg)
			Residential - Beach/Dune Ecological - Special Status[1]
Inorganic Chemicals (Methods 6010/6020)			
Antimony	0.2	3	5.0
Arsenic	0.2	0.25	5.9
Barium	0.1	1	320
Beryllium	0.1	0.1	10
Cadmium	0.1	0.25	1.7
Chloride	--		--
Chromium (Cr(VI) & Cr(III))	0.2	0.5	120
Cobalt	0.1	1	20
Copper	0.2	0.5	43
Lead	0.1	0.15	160
Tetraethyl Lead	--		0.0052
Molybdenum	0.1	1	12
Nickel	0.2	1	70
Selenium	0.2	0.25	0.75
Silver	0.1	0.25	2.0
Thallium	0.1	0.25	1.0
Vanadium	1.0	0.5	92
Zinc	0.2	1	66
Semivolatile Organic Compounds (Method 8270C)			
Acenaphthene	0.33	0.05	30
Acenaphthylene	0.33	0.05	30
Anthracene	0.33	0.05	30
Benzo(a)anthracene	0.33	0.05	0.27
Benzo(a)pyrene	0.33	0.05	0.027
Benzo(b)fluoranthene	0.33	0.05	0.27
Benzo(g,h,i)perylene	0.33	0.05	30
Benzo(k)fluoranthene	0.33	0.05	0.27
Benzyl Alcohol	0.33	0.33	1.0
Bis(2-ethylhexyl)phthalate	--	--	--
Chrysene	0.33	0.05	2.7
Dibenzo(a,h)anthracene	0.33	0.05	0.078
Dibenzofuran	0.33	0.33	910
Fluoranthene	0.33	0.05	30
Fluorene	0.33	0.05	30
Indeno(1,2,3-c,d)pyrene	0.33	0.05	0.27
2-methylnaphthalene	0.33	0.33	30
2-methylphenol (o-Cresol)	--	--	--
4-methylphenol (p-Cresol)	0.33	0.33	50

Table 2
Soil Cleanup Levels
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit (mg/kg)	Laboratory Detection Limit (mg/kg)	Soil Cleanup Levels (mg/kg)
			Residential - Beach/Dune Ecological - Special Status[1]
Semivolatile Organic Compounds (cont.)			
Naphthalene	0.33	0.05	30
n-dotriacontane	--	--	--
n-hentriacontane	--	--	--
n-nitrosodiphenylamine	0.33	0.33	20
n-triacontane	--	--	--
Pentachlorophenol	1.6	1.7	3.0
Phenanthrene	0.33	0.05	30
Phenol	0.33	0.33	30
Polycyclic Aromatic Hydrocarbons	--	--	--
Pyrene	0.33	0.05	30
Volatile Organic Compounds (Method 8260B)			
Acetone	0.01	0.02	0.24
Bromodichloromethane	--	--	--
2-butanone (MEK)	0.01	0.01	3.8
Carbon disulfide	0.005	0.005	200
Carbon Tetrachloride	--	--	--
Chlorodibromomethane	--	--	--
Chlorobenzene	--	--	--
Chloroform	--	--	--
Chloromethane	--	--	--
1,4-dichlorobenzene	--	0.005	0.13
1,2-dichloroethane	--	--	--
1,1-dichloroethane	--	--	--
cis 1,2-dichloroethane	--	--	--
p-Isopropyltoluene (p-cymene)	--	--	130
Methylene Chloride	0.005	0.02	0.076
Tetrachloroethene	--	--	--
1,2,3-trichloroethane	--	--	--
1,2,4-trichloroethane	--	--	--
1,1,1-trichloroethane	0.01	0.005	8.0
Trichloroethene	0.01	0.05	--
Trichlorofluoromethane	--	0.005	40
PCBs, Pesticides, and Herbicides (Methods 8081, 8082 & 8150)			
PCBs (Aroclor 1254)	0.033	0.012	0.033
Aldrin	0.002	0.002	0.0039
alpha-BHC	0.002	0.002	0.062
beta-BHC	0.002	0.002	0.062
delta-BHC	0.002	0.002	0.062

Table 2
Soil Cleanup Levels
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Potential Contaminant of Concern	QAPP Analytical Reporting Limit (mg/kg)	Laboratory Detection Limit (mg/kg)	Soil Cleanup Levels (mg/kg) Residential - Beach/Dune Ecological - Special Status[1]
PCBs, Pesticides, and Herbicides (cont.)			
Chlordane	0.002	0.002	0.0090
2,4-D	0.025	--	0.025
4,4'-DDD	0.004	0.002	0.049
4,4'-DDE	0.004	0.002	0.098
4,4'-DDT	0.004	0.002	0.0082
Dicamba	0.01	--	0.01
Dieldrin	0.004	0.002	0.030
Endosulfan	0.002	0.002	1.1
Endosulfan Sulfate	0.004	0.002	1.1
Endrin	0.004	0.002	0.004
Endrin Aldehyde	--	0.002	0.004
Endrin Ketone	0.004	0.002	0.004
gamma-BHC (Lindane)	0.002	0.002	0.010
Heptachlor	0.002	0.002	0.017
Heptachlor Epoxide	0.002	0.002	0.017
Isodrin	--	--	0.0039
MCPP	5.0	--	5.0
Methoxychlor	0.02	0.02	0.44
Petroleum Hydrocarbons (Method 8015 Modified)			
TPH as gasoline (C7 - C12)	1.0	1	610
TPH as diesel (C12 - C24)	10	1	700
TPH as fuel oil (C24 - C36)	10	5	980
BTEX Compounds (Method 8260B)			
Benzene	0.005	0.005	0.6
Ethylbenzene	0.005	0.005	60
Toluene	0.01	0.005	270
Total Xylenes	0.005	0.005	55

Notes
mg/kg - milligrams per kilogram
Shading indicates target cleanup levels.

[1] Cleanup levels for soil are based on the most stringent of the values for protection of human health (recreational or residential land use), protection of ecological receptors (ecological special status species and terrestrial receptors), and maintaining drinking water standards in groundwater (soils greater than 5 feet above groundwater). Source: Table 7-2 (non-petroleum compounds) and Table 7-5 (petroleum, hydrocarbons and constituents) in Cleanup Levels Document (EKI, 2002). These cleanup levels have been approved in the RAP (Treadwell & Rollo, 2004a).

Table 3A
Confirmation Soil Sampling and Analysis Program
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Sampling Sequence[1]	Sample Type	Lithology	Metals -EPA 6010[2]	PCBs-8082	Pesticides EPA Method 8081A	SVOCs EPA Method 8270	Chlorinated Herbicides-	VOCs 8260	TPH as Diesel and Motor Oil EPA 8015M	Notes
BB3EX100[0.5]	7/30/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded zinc, PCB, 4,4'-DDT, aldrin, endrin, and endrin ketone cleanup levels
BB3EX106[0.5]	8/4/04	2	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX101[0.5]	8/2/04	1	Confirmation	Colma	X	X	X					
BB3EX102[0.5]	8/2/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX103[0.5]	8/2/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX104[0.5]	8/2/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX105[0.5]	8/2/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX107[0.5]	8/5/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX108[0.5]	8/5/04	1	Confirmation	Beach/Dune Sand	X	X	X	X	X	X	X	
BB3EX108[0.5]-DUP080504A	8/5/04	1	Quality Control	Beach/Dune Sand	X	X	X	X	X	X	X	
BB3EX109[0.5]	8/6/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded chromium cleanup level
BB3EX135[0.5]	10/1/04	2	Confirmation	Beach/Dune Sand	X							
BB3EX110[0.5]	8/6/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX111[0.5]	8/18/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded selenium cleanup level
BB3EX117[0.5]	8/30/04	2	Confirmation	Beach/Dune Sand	X							
BB3EX112[0.5]	8/18/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX113[0.5]	8/18/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX114[0.5]	8/18/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX115[0.5]	8/18/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded zinc, 4,4'-DDT, and PCB cleanup levels
BB3EX118[0.5]	8/30/04	2	Confirmation	Colma	X		X					Results exceeded chromium, nickel, endrin and endrin ketone cleanup levels
BB3EX122[0.5]	9/14/04	3	Confirmation	Colma	X							Results exceeded cobalt, nickel and selenium cleanup levels
BB3EX128[0.5]	10/1/04	4	Confirmation	Colma	X							
BB3EX116[0.5]	8/18/04	1	Confirmation	Beach/Dune Sand	X	X	X	X	X	X	X	Results exceeded zinc, B(a)P, B(b)F, B(k)F, and I(1,2,3-cd)P cleanup levels
BB3EX119[0.5]	8/30/04	2	Confirmation	Beach/Dune Sand	X			X				
BB3EX120[0.5]	8/30/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded zinc, 4,4'-DDT, and PCB cleanup levels
BB3EX120[0.5]-DUP083004A	8/30/04	1	Quality Control	Beach/Dune Sand	X	X	X					Results exceeded PCB cleanup levels
BB3EX123[0.5]	9/14/04	2	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded selenium cleanup level
BB3EX129[0.5]	10/1/04	3	Confirmation	Beach/Dune Sand	X							
BB3EX121[0.5]	8/30/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX124[0.5]	9/14/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX125[0.5]	9/14/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded selenium cleanup level
BB3EX136[0.5]	10/1/04	2	Confirmation	Beach/Dune Sand	X							
BB3EX126[0.5]	9/14/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded selenium cleanup level
BB3EX133[0.5]	10/1/04	2	Confirmation	Beach/Dune Sand	X							
BB3EX127[0.5]	9/14/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded selenium cleanup level
BB3EX134[0.5]	10/1/04	2	Confirmation	Beach/Dune Sand	X							
BB3EX130[0.5]	10/1/04	1	Confirmation	Beach/Dune Sand	X	X	X	X	X	X	X	
BB3EX131[0.5]	10/1/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX131[0.5]-DUP100104A	10/1/04	1	Quality Control	Beach/Dune Sand	X	X	X					
BB3EX132[0.5]	10/1/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX137[0.5]	11/5/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX138[0.5]	11/5/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX139[0.5]	11/5/04	1	Confirmation	Beach/Dune Sand	X	X	X	X	X	X	X	
BB3EX140[0.5]	11/5/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX141[2.5][3]	11/5/04	1	Confirmation	Pre-1958 Road Fill	X	X	X					
BB3EX141[5.5][3]	11/5/04	1	Confirmation	Pre-1958 Road Fill	X	X	X					
BB3EX142[0.5]	11/5/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX143[0.5]	11/5/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX143[0.5]-DUP110504A	11/5/04	1	Quality Control	Beach/Dune Sand	X	X	X					
BB3EX144[0.5]	11/5/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX145[0.5]	11/22/04	1	Confirmation	Chert	X	X	X					Results exceeded arsenic, 4,4'-DDT, gamma BHC, and PCB cleanup level
BB3EX145[1.0]	11/22/04	1	Confirmation	Beach/Dune Sand	X	X	X					Results exceeded gamma BHC cleanup level
BB3EX155[0.5]	12/15/04	2	Confirmation	Beach/Dune Sand			X					
BB3EX146[0.5]	11/22/04	1	Confirmation	Chert	X	X	X					Results exceeded chromium, 4,4'-DDT cleanup level
BB3EX146[1.0]	11/22/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX147[0.5]	11/22/04	1	Confirmation	Chert	X	X	X					Results exceeded PCB cleanup levels
BB3EX147[1.5]	11/22/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX148[0.5]	11/22/04	1	Confirmation	Chert	X	X	X					Results exceeded 4,4'-DDT, gamma BHC, and PCB cleanup levels
BB3EX156[0.5]	12/16/04	2	Confirmation	Beach/Dune Sand		X	X					
BB3EX149[0.5]	11/22/04	1	Confirmation	Beach/Dune Sand	X	X	X	X	X	X	X	
BB3EX150[0.5]	11/22/04	1	Confirmation	Chert	X	X	X					
BB3EX150[2.5]	11/22/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX150[2.5]-DUP112204A	11/22/04	1	Quality Control	Beach/Dune Sand	X	X	X					
BB3EX151[0.5]	11/23/04	1	Confirmation	Chert	X	X	X					
BB3EX152[0.5]	11/23/04	1	Confirmation	Chert	X	X	X					
BB3EX153[0.5]	11/23/04	1	Confirmation	Beach/Dune Sand	X	X	X	X	X	X	X	
BB3EX154[0.5]	11/23/04	1	Confirmation	Beach/Dune Sand	X	X	X					
BB3EX154[0.5]-DUP112304A	11/23/04	1	Quality Control	Beach/Dune Sand	X	X	X					
BB3EX156[0.5]-DUP121604A	12/16/04	1	Quality Control	Beach/Dune Sand			X					

Notes

1 - Sampling sequence indicates that if the initial confirmation sample exceeded a cleanup level, the area was overexcavated and a subsequent sample was collected at the current ground surface at the same location and reanalyzed for compounds exceeding cleanup levels.

2 - Metals include Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

3 Pre-1958 Road Fill consists of a mixture of Colma, beach/dune Beach/Dune Sand, and serpentinite. Analytical results are compared against the cleanup level for serpentinite.

Green indicates area was overexcavated.

DUP prefix indicates a blind duplicate sample.
4,4'-DDT - 4,4'-Dichlorodiphenyltrichloroethane
gamma BHC - gamma isomer of lindane (BHC)
PCB - Polychlorinated biphenyls
B(a)A - Benzo(a)anthracene
B(a)P - Benzo(a)pyrene
B(b)F - Benzo(b)fluoranthene
B(k)F - Benzo(k)fluoranthene
I(1,2.3)cd-P - Indeno 1,2,3-cd pyrene
TPH - Total petroleum hydrocarbons
SVOCs - Semivolatile organic compounds
VOCs - Volatile organic compounds

Table 3B
Confirmation Soil Sampling and Analysis Program
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Sample ID	Sample Date	Sample Type	Lithology	Metals -EPA 6010 [1]	PCBs-8082	Pesticides EPA Method 8081A	SVOCs EPA Method 8270	Chlorinated Herbicides-	VOCs 8260	TPH as Diesel and Motor Oil EPA 8015M
BB4EX100[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X	X	X	X	X	X	X
BB4EX100[0.5]-DUP100704A	10/7/2004	Quality Control	Beach/Dune Sand	X	X	X	X	X	X	X
BB4EX101[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X		X				
BB4EX102[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X		X				
BB4EX103[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X		X				
BB4EX104[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X		X				
BB4EX105[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X		X				
BB4EX106[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X		X				
BB4EX107[0.5]	10/7/2004	Confirmation	Beach/Dune Sand	X		X				

Notes
[1] Metals include Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.
DUP Prefix indicates a blind duplicate sample.
PCBs - Polychlorinated biphenyls
TPH - Total petroleum hydrocarbons
SVOCs - Semivolatile organic compounds
VOCs - Volatile organic compounds

Table 4
Construction Completion Timeline
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

Date	Action/Event
29-Jan to 5-Feb-04	Temporary piezometers installed at BBDA 3
4 to 6-Feb-04	Jeffrey Steinman conducts survey to locate nesting birds at BBDAs 3 and 4
10-Feb-04	BBDA 3 Tree clearing
18-Mar-04	Remedial Action Plan approved by DTSC
9-Jun-04	Notice to Proceed issued to Perf-Ex
	Pre-excavation Activities
5-May-04	Perf-Ex issues Health Safety Plan.
4-Jun-04	Over-drill and abandon piezometer BB3PZ1B; Partial abandonment of piezometer BB3PZ1A.
9-Jun-04	Perf-Ex mobilize to BBDA 3, install construction fencing.
14-Jun-04	Potholing at BBDA3 to profile fill. PerfEx collects waste characterization samples from test pits.
16-Jun-04	Chaudhary Associates set slope movement monitoring points on Lincoln Boulevard.
21-Jun-04	RW Davis shoots pre-construction topographic survey for BBDAs 3 and 4.
22-Jun-04	BBDA 3 waste characterization analytical results indicate CA HAZ for lead.
28-Jun-04	NPS gives sensitive habitat awareness training at BBDA 3. Trust gives UXO awareness training.
30-Jun-04	Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard. T&R collects preliminary chert road and native sand samples BB3SS100-BB3SS102 from historical chert road.
2-Jul-04	RW Davis shoots pre-construction topographic survey for BBDA 4.
	BBDA 3 Excavation
1-Jul-04	Begin removing green waste from slope of BBDA 3.
6-Jul-04	Begin to excavate and stockpile BBDA 3 fill soil. Import aggregate baserock and build up entrance ramp for trucks.
8-Jul-04	First truck tests site entry and exist, 1st load out Class I to Buttonwillow.
9-Jul-04	Bowley Road work hour closure for truck staging begins for daily Class I offhaul.
7-Jul-04	Test stockpile for Class II material.
13-Jul-04	Stockpile results show CA Class I material.
15-Jul-04	Test stockpile for Class II material.
16-Jul-04	Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard.
19-Jul-04	Stockpile result show CA Class I material.
21-Jul-04	Mobilize long-reach excavator to site.
27-Jul-04	Following discussions with DTSC, Trust gives PerfEx approval to begin excavation in BBDA 3 Phase II area.
29-Jul-04	Results for Phase II area material indicate CA Class I waste.
30-Jul-04	T&R collects bottom confirmation sample BB3EX100[0.5]. Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard.
2-Aug-04	T&R collects confirmation samples BB3EX101[0.5] through BB3EX105[0.5].
3-Aug-04	DTSC representatives Robert Boggs and Ram Ramanujam visit site.
4-Aug-04	Over excavate BB3EX100[0.5], T&R collects confirmation resample BB3EX106[0.5].
5-Aug-04	T&R collects confirmation samples BB3EX107[0.5] and BB3EX108[0.5].
6-Aug-04	T&R collects confirmation samples BB3EX109[0.5] and BB3EX110[0.5].

Table 4
Construction Completion Timeline
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

16-Aug-04	Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard.
17-Aug-04	DTSC, Trust, NPS perform site walk, discuss confirmation sampling. DTSC requests additional samples from bottom of ravine.
18-Aug-04	T&R collects confirmation samples BB3EX111[0.5] through BB3EX116[0.5].
20-Aug-04	Begin Class II waste offhaul to Altamont, continue CA Class I offhaul.
23-Aug-04	End Class II waste offhaul to Altamont and continue CA Class I offhaul.
25-Aug-04	Perform vegetation removal outside work limits at NPS direction.
26-Aug-04	Over excavate BB3EX111, BB3EX115, and BB3EX116.
27-Aug-04	NPS constructs willow mat at toe of slope for erosion control.
	RW Davis shoots partial post-construction topographic survey, sample locations.
30-Aug-04	T&R collects confirmation samples BB3EX117[0.5] through BB3EX121[0.5].
31-Aug-04	Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard.
7-Sep-04	Begin breaking large concrete prior to Class II offhaul.
9-Sep-04	End Class II concrete offhaul, continue CA Class I offhaul.
13-Sep-04	Resume Class II waste offhaul to Altamont, continue CA Class I offhaul.
	Over excavate BB3EX118 and BB3EX120.
	Groundwater seep noticed at former sampling location BB3EX118.
14-Sep-04	RW Davis shoots partial post-construction topographic survey, sample locations.
	Begin tree stump offhaul.
	T&R collects confirmation samples BB3EX122[0.5] through BB3EX127[0.5].
15-Sep-04	Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard.
	End tree stump offhaul.
21-Sep-04	Over-drill and complete Piezometer BB3PZ1A abandonment.
	End Class II waste offhaul to Altamont and continue CA Class I offhaul.
24-Sep-04	Test stockpile for Class II and Class III material.
28-Sep-04	Stockpile result show Class II material.
	Last CA Class I material offhaul.
	Resume Class II waste offhaul to Altamont, and begin Class III offhaul to Ox Mountain.
29-Sep-04	Over excavate BB3EX122, BB3EX123, and BB3EX125 through BB3EX127.
	End Class III offhaul to Ox Mt.
1-Oct-04	RW Davis shoots partial post-construction topographic survey, sample locations.
	T&R collects confirmation samples BB3EX128[0.5] through BB3EX136[0.5].
	Groundwater seep noted near sample BB3EX130.
5-Oct-04	Halt activity at BBDA 3, work BBDA 4.
8-Oct-04	Resume Class II waste offhaul to Altamont and Class III to Ox Mt.
11-Oct-04	Test stockpile for Class II material.
13-Oct-04	Stockpile result show Class II material.
18-Oct-04	First rain over weekend, no affect on site.
	Begin exposing historical Battery Crosby Rd.
19-Oct-04	Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard.
22-Oct-04	Resume Class II waste offhaul to Altamont, and begin Class III offhaul to Ox Mt. after recent rains.
	Begin erosion control installation from toe up.
25-Oct-04	Test stockpile for Class II material. No site work until 11/03/04.
27-Oct-04	DTSC, Trust, NPS perform site walk, discuss confirmation sampling and select groundwater monitoring locations.
2-Nov-04	Stockpile material Class II.
3-Nov-04	Excavate 2 trenches to map limits of historical Battery Crosby Rd.

Table 4
Construction Completion Timeline
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

5-Nov-04	RW Davis shoots partial post-construction topographic survey, sample locations. T&R collects confirmation samples BB3EX127[0.5] through BB3EX144[0.5].
22-Nov-04	RW Davis shoots partial post-construction topographic survey, sample locations. T&R collects confirmation samples BB3EX145[0.5] through BB3EX150[2.5].
23-Nov-04	T&R collects confirmation samples BB3EX151[0.5] through BB3EX154[0.5]
6-Dec-04	Drill and install groundwater monitoring wells BB3GW100 and BB3GW101.
9-Dec-04	Hand-auger and install fixed water monitoring points BB3SW100 through BB3SW102.
13-Dec-04	Hand-auger and install piezometer BB3PZ101.
14-Dec-04	Well BB3GW100 developed, BB3GW101 dry. Begin groundwater sampling at site.
15-Dec-04	Excavate and remove section of historical Battery Crosby Rd which failed cleanup criteria. T&R collects confirmation sample BB3EX155[0.5].
16-Dec-04	T&R collects confirmation sample BB3EX156[0.5], last confirmation sample. Tires offhauled for recycling.
17-Dec-04	End Class II waste offhaul.
21-Dec-04	DTSC, Trust, NPS site meeting, confirmation sample results review. DTSC requests additional surface cleanup (scraping) at one location.
23-Dec-04	Chaudhary Associates surveys slope monitoring points on Lincoln Boulevard.
4-Jan-05	Scrape and remove surface material in the vicinity of samples BB3EX110, BB3EX121, and BB3EX127 and stockpile.
5-Jan-05	DTSC, Trust, NPS, T&R walk site to decide confirmation sampling results document site cleanup criteria met. Sampling complete.
11-Jan-05	Groundwater flow from seeps along toe of northern slope approximately 7 gpm, localized piping noted.
18-Jan-05	Load out last waste material, Class III from scraping. Bowley Road reopened.
	BBDA 3 Site Restoration
6-Dec-04	Submit preliminary Battery Crosby Road design to NPS for 5X Review.
24-Jan-05	Begin removal of temporary erosion control and construct final erosion control.
25-Jan-05	Install main seep collection dam and diversion pipe.
11-Feb-05	Submit three design alternatives for Battery Crosby Road to NPS for review and comment.
14-Feb-05	Final erosion control check dams complete.
15-Feb-05	Monitor erosion control following rains. Main seep pipes again.
22-Feb-05	Repair erosion control.
28-Feb-05	Monitor erosion control following rains. Main seep pipes again.
4-Mar-05	Monitor erosion control following rains. Main seep pipes again.
7-Mar-05	Repair Battery Crosby Road entrance guard rail.
14-Mar-05	Monitor erosion control following rains. Main seep pipes again.
16-Mar-05	Repair erosion control.
21-Mar-05	Monitor erosion control following rains.
23-Mar-05	Monitor erosion control following rains.
5-Apr-05	Monitor erosion control following rains.
14-Apr-05	Submit two design alternatives for Battery Crosby Road to NPS for review and comment.

Table 4
Construction Completion Timeline
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

25-Apr-05	Monitor erosion control following rains.
9-May-05	Monitor erosion control following rains
16-May-05	Submit one revised design alternative for Battery Crosby Road to NPS for review and comment
19-May-05	Monitor erosion control following rains
9-Jun-05	Monitor erosion control following rains
17-Jun-05	Monitor erosion control following rains
29-Jun-05	*As of this date, Battery Crosby Road design has not been finalized.*
BBDA 4 Excavation and Site Restoration	
5-Oct-04	Mobilize equipment to BBDA 4 and begin grubbing, stockpile material at BBDA 3.
7-Oct-04	Complete excavation at BBDA 4, de-mobilize equipment.
	T&R collects confirmation samples BB4EX100[0.5] through BB4EX107[0.5].
8-Oct-04	Loadout all BBDA 4 waste, Class II waste offhaul to Altamont, and Class III offhaul to Ox Mt.
11-Oct-04	Installation of final erosion control.
27-Oct-04	DTSC, NPS, Trust discuss site confirmation sample results.
4-Nov-05	BBDA 4 Complete.
15-Feb-05	Monitor erosion control following rains
28-Feb-05	Monitor erosion control following rains
4-Mar-05	Monitor erosion control following rains
14-Mar-05	Monitor erosion control following rains.
21-Mar-05	Monitor erosion control following rains
23-Mar-05	Monitor erosion control following rains
5-Apr-05	Monitor erosion control following rains
6-Apr-05	Seal surfacewater drainage invert at Battery Chamberlin Road, install asphalt "speed bump" for runoff diversion.
25-Apr-05	Monitor erosion control following rains
9-May-05	Monitor erosion control following rains
19-May-05	Monitor erosion control following rains
9-Jun-05	Monitor erosion control following rains
17-Jun-05	Monitor erosion control following rains

Table 5
Slope Stability Monitoring Survey Data
Baker Beach Disturbed Area 3
Presidio of San Francisco

Date of Survey	Northing	Easting	Elevation	Accumulative Movement North (feet)	Accumulative Movement East (feet)	Accumulative Movement Vertical (feet)	Accumulative Horizontal Movement (feet)
POINT #10 BB3GT2							
6/16/2004	478353.013	1428602.273	220.900	0.000	0.000	0.000	0.000
6/30/2004	478353.005	1428602.286	220.894	-0.008	0.013	-0.006	0.015
7/16/2004	478353.002	1428602.261	220.892	-0.011	-0.012	-0.008	0.016
7/30/2004	478353.013	1428602.247	220.894	0.000	-0.026	-0.006	0.026
8/16/2004	478352.989	1428602.257	220.888	-0.024	-0.016	-0.012	0.029
8/31/2004	478353.006	1428602.282	220.894	-0.007	0.009	-0.006	0.011
9/15/2004	478353.019	1428602.269	220.894	0.006	-0.004	-0.006	0.007
10/19/2004	478353.036	1428602.284	220.880	0.023	0.011	-0.020	0.025
12/23/2004	478353.000	1428602.263	220.895	-0.013	-0.010	-0.005	0.016
POINT #11 BB3GT1							
6/16/2004	478410.103	1428638.415	225.872	0.000	0.000	0.000	0.000
6/30/2004	478410.073	1428638.431	225.866	-0.030	0.016	-0.006	0.015
7/16/2004	478410.081	1428638.429	225.865	-0.022	0.014	-0.007	0.016
7/30/2004	478410.087	1428638.397	225.869	-0.016	-0.018	-0.003	0.026
8/16/2004	478410.075	1428638.415	225.859	-0.028	0.000	-0.013	0.029
8/31/2004	478410.088	1428638.441	225.865	-0.015	0.026	-0.007	0.011
9/15/2004	478410.096	1428638.424	225.865	-0.007	0.009	-0.007	0.007
10/19/2004	478410.093	1428638.431	225.857	-0.010	0.016	-0.015	0.025
12/23/2004	478410.079	1428638.407	225.870	-0.024	-0.008	-0.002	0.016
POINT #12 BB3GT3							
6/16/2004	478463.082	1428641.119	231.011	0.000	0.000	0.000	0.000
6/30/2004	478463.095	1428641.129	231.005	0.013	0.010	-0.006	0.016
7/16/2004	478463.093	1428641.125	231.004	0.011	0.006	-0.007	0.013
7/30/2004	478463.097	1428641.100	231.008	0.015	-0.019	-0.003	0.024
8/16/2004	478463.098	1428641.121	231.002	0.016	0.002	-0.009	0.016
8/31/2004	478463.088	1428641.138	231.005	0.006	0.019	-0.006	0.020
9/15/2004	478463.092	1428641.140	231.009	0.010	0.021	-0.002	0.023
10/19/2004	478463.104	1428641.132	230.998	0.022	0.013	-0.013	0.026
12/23/2004	478463.086	1428641.106	231.000	0.004	-0.013	-0.011	0.014

All "Accumulative Movement" listed are net change calculated between the original survey measurment (6/16/04) and the date of individual survey.

Sign Convention: Movement North +
Movement East +
Increase in Elevation +

Note: Movement of .01' or less is considered within the margin of acceptable measurement variability.

Table 6
Summary of Metals Results in Soil Confirmation Samples
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Lithology	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Cleanup Levels		**Colma**	**5**	**6.2**	**320**	**10**	**0.8**	**140**	**21**	**49**	**--**	**160**	**--**	**0.4**	**12**	**110**	**0.5**	**2**	**1**	**90**	**60**
		Sand	**5**	**5.9**	**320**	**10**	**1.7**	**120**	**20**	**43**	**--**	**160**	**--**	**0.4**	**12**	**70**	**0.75**	**2**	**1**	**92**	**66**
		Serpentinite	**5**	**5.4**	**320**	**10**	**1.9**	**1700**	**170**	**85**	**--**	**160**	**--**	**0.4**	**12**	**4500**	**0.5**	**2**	**1**	**74**	**160**
		Chert [1]	**5**	**3.2**	**900**	**10**	**1.7**	**41**	**37**	**360**	**--**	**160**	**--**	**0.4**	**12**	**71**	**0.5**	**2**	**1**	**61**	**120**
BB3EX100[0.5]		Sand	< 3	2.9	34	0.11	0.31	49	6	8.3	NA	26	NA	NA	< 0.99	30	< 0.25	< 0.25	< 0.25	42	**72**
BB3EX101[0.5]	8/2/2004	Colma	< 3.2	4.7	190	0.47	0.38	90	9.6	19	NA	4.8	NA	NA	< 1.1	69	0.42	< 0.27	< 0.27	68	46
BB3EX102[0.5]	8/2/2004	Sand	< 2.1	2.5	14	0.12	0.2	50	5.1	4.2	NA	8.7	NA	NA	< 0.71	21	0.31	< 0.18	< 0.18	36	26
BB3EX103[0.5]	8/2/2004	Sand	< 1.8	2.5	11	0.12	< 0.15	37	5	3	NA	2.1	NA	NA	< 0.61	20	0.26	< 0.15	< 0.15	27	20
BB3EX104[0.5]	8/2/2004	Sand	< 2.4	2.8	11	0.15	< 0.2	42	4.8	2.9	NA	1.5	NA	NA	< 0.8	17	< 0.2	< 0.2	< 0.2	37	15
BB3EX105[0.5]	8/2/2004	Sand	< 3.4	3	12	0.16	< 0.28	46	5	3.6	NA	5.5	NA	NA	< 1.1	24	0.45	< 0.28	< 0.28	39	19
BB3EX106[0.5]	8/4/2004	Sand	< 2.8	2.9	11	< 0.093	< 0.23	44	5.4	4.2	NA	8.3	NA	NA	< 0.93	21	< 0.23	< 0.23	< 0.23	44	22
BB3EX107[0.5]	8/5/2004	Sand	< 2.8	2.8	15	0.12	< 0.24	41	6.1	3.7	NA	3	NA	NA	< 0.95	22	< 0.24	< 0.24	< 0.24	35	18
BB3EX108[0.5]	8/5/2004	Sand	< 2.1	2.1	9.6	0.084	< 0.17	25	3.5	2.3	NA	1.4	NA	< 0.019	< 0.69	15	< 0.17	< 0.17	< 0.17	20	11
BB3EX108[0.5]-DUP080504A	8/5/2004	Sand	< 2.5	2.5	9.8	0.11	< 0.21	32	4.8	3.1	NA	1.7	NA	< 0.02	< 0.83	20	< 0.21	< 0.21	< 0.21	27	14
BB3EX109[0.5]	8/6/2004	Sand	< 3.4	4.5	30	< 0.11	< 0.29	**170**	10	17	NA	23	NA	NA	< 1.1	31	< 0.29	< 0.29	< 0.29	57	52
BB3EX110[0.5]	8/6/2004	Sand	< 3	2.6	29	< 0.099	< 0.25	57	6.8	5.8	NA	9.4	NA	NA	< 0.99	42	< 0.25	< 0.25	< 0.25	39	28
BB3EX111[0.5]	8/18/2004	Sand	< 2.8 UJ	3.5	12	< 0.093	< 0.23	45	6.2	3.7 J	NA	1.7	NA	NA	< 0.93	21	**1.3**	< 0.23	< 0.23	43 J-	16
BB3EX112[0.5]	8/18/2004	Sand	< 2.7 UJ	2.6	13	0.11	< 0.22	46	5.6	4.1 J	NA	8.6	NA	NA	< 0.89	22	0.37	< 0.22	< 0.22	44 J-	23
BB3EX113[0.5]	8/18/2004	Sand	< 2 UJ	2.3	8.5	0.095	0.25	61	5.1	3.4 J	NA	2	NA	NA	< 0.68	20	0.56	< 0.17	< 0.17	51 J-	16
BB3EX114[0.5]	8/18/2004	Sand	< 2.1 UJ	2.4	19	0.12	0.26	50	5.6	5 J	NA	4.2	NA	NA	< 0.71	26	0.4	< 0.18	< 0.18	47 J-	26
BB3EX115[0.5]	8/18/2004	Sand	< 3 UJ	2.2	22	0.13	0.39	52	5.3	12 J	NA	32	NA	NA	< 1	26	0.39	< 0.25	< 0.25	42 J-	61
BB3EX116[0.5]	8/18/2004	Sand	< 3.1 UJ	4	58	0.2	0.42	67	9.3	16	NA	83	NA	0.18	< 1	56 J-	0.52	< 0.26	< 0.26	51	**87**
BB3EX117[0.5]	8/30/2004	Sand	< 2.7 UJ	3.1	9.7	0.21	< 0.22	54	5.3	2.8	NA	1.6	NA	NA	< 0.89	20	< 0.22	< 0.22	< 0.22	56	16
BB3EX118[0.5]	8/30/2004	Colma	< 2.9 UJ	3	110	0.55	< 0.24	**160 J-**	11	20	NA	5.2	NA	NA	< 0.97	**180**	< 0.24	< 0.24	< 0.24	63 J-	42
BB3EX119[0.5]	8/30/2004	Sand	< 2.6	2.6	17	0.097	0.25	46	5.5	5.6	11000	6.6	120	NA	< 0.86	28	0.6	< 0.22	< 0.22	34	20
BB3EX120[0.5]	8/30/2004	Sand	< 2.6 UJ	2.7	14	0.21	< 0.22	47	5.2	4.3	NA	20	NA	NA	< 0.87	22	< 0.22	< 0.22	< 0.22	45	**71**
BB3EX120[0.5]-DUP083004A	8/30/2004	Sand	< 3.1 UJ	2.8	18	0.22	< 0.26	51	5.5	4.3	NA	8.9	NA	NA	< 1	24	< 0.26	< 0.26	< 0.26	49	30
BB3EX121[0.5]	8/30/2004	Sand	< 3 UJ	3	13	0.17	< 0.25	27	3.5	2.6	NA	1.5	NA	NA	< 0.99	18	< 0.25	< 0.25	< 0.25	26	12
BB3EX122[0.5]	9/14/2004	Colma	< 2.7	4.6	150	0.43	< 0.22	130	**61**	18 J	NA	4.4	NA	NA	< 0.89	**270**	**2**	< 0.22	< 0.22	53	39
BB3EX123[0.5]	9/14/2004	Sand	< 2.1	2.7	8.8	0.11	< 0.17	46	5.1	3 J	NA	1.4	NA	NA	< 0.69	22	**1.1**	< 0.17	< 0.17	43	14
BB3EX124[0.5]	9/14/2004	Sand	< 2.8	3.1	10	0.12	< 0.23	45	5.6	2.9 J	NA	1.6	NA	NA	< 0.92	23	0.75	< 0.23	< 0.23	33	14
BB3EX125[0.5]	9/14/2004	Sand	< 2.8	2.5	13	0.11	< 0.23	42	5	3 J	NA	1.4	NA	NA	< 0.94	20	**0.85**	< 0.23	< 0.23	34	13
BB3EX126[0.5]	9/14/2004	Sand	< 2.4	3.1	15	0.1	< 0.2	38	4.8	2.9 J	NA	2.1	NA	NA	< 0.81	19	**0.86**	< 0.2	< 0.2	37	14
BB3EX127[0.5]	9/14/2004	Sand	< 2.8	3.2	17	0.11	< 0.23	41	4.9	3.8 J	NA	2.5	NA	NA	< 0.92	20	**0.88**	< 0.23	< 0.23	36	16
BB3EX128[0.5]	10/1/2004	Colma	< 2.4 UJ	4.2	120 J+	0.41 J	< 0.2	110	18 J+	18	28000	4.7	550	NA	< 0.8	**150**	**0.7**	< 0.2	< 0.2	58	41
BB3EX129[0.5]	10/1/2004	Sand	< 3 UJ	2.7	8.8 J+	0.12 J	< 0.25	29	4.1 J+	2.6	8500	1.3	99	NA	< 1	22	< 0.25	< 0.25	< 0.25	20	13
BB3EX130[0.5]	10/1/2004	Sand	< 2.1 UJ	3.3	16 J+	0.11 J	< 0.17	42	5.2 J+	3.7	14000	2.8	160	< 0.018	< 0.68	24	0.32	< 0.17	< 0.17	36	17
BB3EX131[0.5]	10/1/2004	Sand	< 3.3 UJ	2.7	8.7 J+	0.13 J	< 0.27	41	4.9 J+	2.9	12000	1.3	130	NA	< 1.1	22	0.31	< 0.27	< 0.27	32	14
BB3EX131[0.5]-DUP100104A	10/1/2004	Sand	< 3.1 UJ	2.6	9.4 J+	0.14 J	< 0.26	35	4.4 J+	2.9	11000	1.3	120	NA	< 1	21	0.43	< 0.26	< 0.26	28	13
BB3EX132[0.5]	10/1/2004	Sand	< 3.4 UJ	3.2	18 J+	0.14 J	< 0.28	38	5.2 J+	3.9	14000	3.5	160	NA	< 1.1	22	0.35	< 0.28	< 0.28	39	18
BB3EX133[0.5]	10/1/2004	Sand	< 2.6 UJ	2.8	36 J+	0.12 J	< 0.22	35	4.6 J+	4.1	12000	2.6	150	NA	< 0.87	18	0.39	< 0.22	< 0.22	32	15
BB3EX134[0.5]	10/1/2004	Sand	< 2.4 UJ	2.8	16 J+	0.12 J	< 0.2	29	4.3 J+	2.9	12000	2	120	NA	< 0.81	17	0.41	< 0.2	< 0.2	31	14
BB3EX135[0.5]	10/1/2004	Sand	< 2.3 UJ	2.6	20 J+	0.14 J	< 0.19	48	5.1 J+	3	15000	3	130	NA	< 0.77	22	0.25	< 0.19	< 0.19	41	19
BB3EX136[0.5]	10/1/2004	Sand	< 2.3 UJ	2.6	9.8 J+	0.15 J	< 0.2	31	4.6 J+	3	11000	1.4	130	NA	< 0.78	21	0.26	< 0.2	< 0.2	30	13
BB3EX137[0.5]	11/5/2004	Sand	< 2.3	3.2	11	0.2	0.25	36	5	2.8	12000	1.2	120	NA	< 0.76	22	< 0.19	< 0.19	< 0.19	32	12
BB3EX138[0.5]	11/5/2004	Sand	< 3	2.5	11	0.18	0.25	34	4.1	2.4	13000	0.82	120	NA	< 1	18	< 0.25	< 0.25	< 0.25	37	11
BB3EX139[0.5]	11/5/2004	Sand	< 3.3	2.8	6.2	0.15	0.48	58	5.2	3	15000	1.1	110	0.032	< 1.1	22	< 0.27	< 0.27	< 0.27	49	14
BB3EX140[0.5]	11/5/2004	Sand	< 3.1	2.4	13	0.21	< 0.26	43	5.3	3.4	14000	1.3	150	NA	< 1	21	< 0.26	< 0.26	< 0.26	41	14
BB3EX141[2.5] [2]	11/5/2004	Pre-1958 Road Fill	< 2.9	2.8	270	0.4	0.8	110	20	39	35000	4.3	640	NA	< 0.96	82	< 0.24	< 0.24	< 0.24	**91**	49
BB3EX141[5.5] [2]	11/5/2004	Pre-1958 Road Fill	2.9	2.2	94	0.4	1	130	25	53	46000	< 0.14	1000	NA	< 0.9	68	< 0.23	< 0.23	< 0.23	**100**	45
BB3EX142[0.5]	11/5/2004	Sand	< 2.5	3.4	32	0.26	0.4	65	6.8	6.9	19000	2.3	200	NA	< 0.84	31	< 0.21	< 0.21	< 0.21	55	19
BB3EX143[0.5]	11/5/2004	Sand	< 2.7	2.9	57	0.21	0.29	35	5.1	5	14000	2.3	190	NA	< 0.88	19	< 0.22	< 0.22	< 0.22	38	17
BB3EX143[0.5]-DUP110504A	11/5/2004	Sand	< 3.4	3	26	0.23	< 0.28	38	5.1	4.4	13000	5	170	NA	< 1.1	21	< 0.28	< 0.28	< 0.28	39	20
BB3EX144[0.5]	11/5/2004	Sand	< 2.9	3	12	0.19	< 0.24	39	5.1	3.4	12000	2.1	140	NA	< 0.97	23	< 0.24	< 0.24	< 0.24	35	15
BB3EX145[0.5]	11/22/2004	Chert	< 2.6	**3.8**	150	0.48	0.34	39	11	62	24000	18	1200	NA	< 0.86	31	< 0.21	< 0.21	< 0.21	40	47
BB3EX145[1.0]	11/22/2004	Sand	< 2.8	2.9	14	0.15	< 0.23	41	5.3	3.4	12000	3.5	140	NA	< 0.93	24	< 0.23	< 0.23	< 0.23	31	16
BB3EX146[0.5]	11/22/2004	Chert	< 2.9	1.8	230	0.41	0.41	**72**	14	92	22000	30	1500	NA	< 0.96	53	< 0.24	< 0.24	< 0.24	25	58
BB3EX146[1.0]	11/22/2004	Sand	< 2.5	2.7	14	0.15	< 0.21	42	5	3.5	11000	1.9	140	NA	< 0.84	23	< 0.21	< 0.21	< 0.21	28	15
BB3EX147[0.5]	11/22/2004	Chert	< 3	2.9	170	0.37	0.43	36	12	57	20000	26	1300	NA	< 1	36	< 0.25	< 0.25	< 0.25	34	43
BB3EX147[1.5]	11/22/2004	Sand	< 3.1	2.9	20	0.16	0.27	52	5.9	3.8	14000	1.8	200	NA	< 1	23	< 0.26	< 0.26	< 0.26	38	16
BB3EX148[0.5]	11/22/2004	Chert	< 3	2.4	330	0.56	0.49	26	10	97	26000	33	2000	NA	< 1	32	< 0.25	< 0.25	< 0.25	33	71
BB3EX149[0.5]	11/22/2004	Sand	< 2.7	3.3	12	0.13	< 0.22	36	4.5	6.2	12000	3	120	< 0.02	< 0.9	20	< 0.22	< 0.22	< 0.22	30	16
BB3EX150[0.5]	11/22/2004	Chert	< 2.7	1.4	91	0.31	0.27	18	7.1	50	17000	20	680	NA	< 0.91	13	< 0.23	< 0.23	< 0.23	23	18
BB3EX150[2.5]	11/22/2004	Sand	< 2.8	2.7	30	0.16	0.31	43	6.4	8	15000	5.3	200	NA	< 0.92	25	< 0.23	< 0.23	< 0.23	37	20
BB3EX150[2.5]-DUP112204A	11/22/2004	Sand	< 2.9	3.3	23	0.15	< 0.24	33	5.4	5	14000	3	170	NA	< 0.98	21	< 0.24	< 0.24	< 0.24	34	18
BB3EX151[0.5]	11/23/2004	Chert	< 2.6 UJ	1.3 J-	160 J-	0.52 J-	0.41	11 J-	20 J-	100	25000	8.4 J-	1900	NA	< 0.86 UJ	14 J-	**0.72 J-**	< 0.21 UJ	< 0.21 UJ	28 J-	13 J-
BB3EX152[0.5]	11/23/2004	Chert	< 2.7 UJ	2.1 J-	210 J-	0.64 J-	< 0.23	13 J-	19 J-	120	30000	11 J-	2200	NA	< 0.91 UJ	17 J-	**1.3 J-**	< 0.23 UJ	< 0.23 UJ	36 J-	21 J-
BB3EX153[0.5]	11/23/2004	Sand	< 2.2 UJ	2.7 J-	21 J-	0.092 J-	0.24	36 J-	5.1 J-	4.1	11000	2.5 J-	170	< 0.02	< 0.74 UJ	19 J-	0.32 J+	< 0.18 UJ	< 0.18 UJ	30 J-	16 J-
BB3EX154[0.5]	11/23/2004	Sand	< 2.6 UJ	3 J-	17 J-	0.11 J-	0.25	33 J-	4.9 J-	4.5	11000	6 J-	140	NA	< 0.87 UJ	19 J-	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	30 J-	17 J-
BB3EX154[0.5]-DUP112304A	11/23/2004	Sand	< 2.6 UJ	2.8 J-	21 J-	0.097 J-	0.25	30 J-	4.8 J-	5	10000	6.8 J-	170	NA	< 0.87 UJ	19 J-	< 0.22 UJ	< 0.22 UJ	< 0.22 UJ	29 J-	17 J-

NOTES:
mg/kg - milligrams per kilogram
NA - Not Analyzed
Values in red/bold typeface indicate cleanup level exceedances.
Green shading indicates area was overexcavated.
1 Cleanup level from Cleanup Levels Document.
2 Pre-1958 Road Fill consists of a mixture of Colma, beach/dune sand, and serpentinite. Analytical results are compared against the cleanup level for serpentinite.
J : The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J- : The analyte was positively identified; the associated numerical value is biased low due to a low surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
J+ : The analyte was positively identified; the associated numerical value is biased high due to a high surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
2,4-D - 2,4-Dichlorophenoxyacetic acid
2,4 DB - 4-(2,4-dichlorophenoxy) butyric acid
MCPA - (4-chloro-2-methylphenoxy) acetic acid
MCPP - 2-(2-Methyl-4-chlorophenoxy) propionic acid
2,4,5-T - (2,4,5-trichlorophenoxy) acetic acid

Table 7
Summary of OCP Results in Soil Confirmation Samples
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Lithology	4,4'-DDD	4,4'-DDE	4,4'-DDT [1]	Aldrin [1]	alpha-Chlordane	alpha-BHC	beta-BHC	Chlordane (Technical)	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin [1]	Endrin ketone [1]	gamma-Chlordane	alpha & gamma Chlordane [1,2]	gamma-BHC	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Cleanup Levels		**Colma**	**49**	**98**	**8.2**	**3.9**	**--**	**62**	**62**	**--**	**62**	**30**	**1100**	**1100**	**1100**	**4**	**4**	**--**	**9**	**10**	**17**	**17**	**440**	**--**
		Sand	**49**	**98**	**8.2**	**3.9**	**--**	**62**	**62**	**--**	**62**	**30**	**1100**	**1100**	**1100**	**4**	**4**	**--**	**9**	**10**	**17**	**17**	**440**	**--**
		Serpentinite	**49**	**98**	**8.2**	**3.9**	**--**	**62**	**62**	**--**	**62**	**30**	**1100**	**1100**	**1100**	**4**	**4**	**--**	**9**	**10**	**17**	**17**	**440**	**--**
		Chert [3]	**49**	**98**	**8.2**	**3.9**	**--**	**62**	**62**	**--**	**62**	**30**	**1100**	**1100**	**1100**	**4**	**4**	**--**	**9**	**10**	**17**	**17**	**440**	**--**
BB3EX100[0.5]	7/30/2004	Sand	< 17	< 17	**< 17**	**< 8.6**	< 8.6	< 8.6	< 8.6	< 150	< 8.6	< 17	< 8.6	< 17	< 17	**< 17**	**< 17**	< 8.6	**< 17.2**	< 8.6	< 8.6	< 8.6	< 86	< 300
BB3EX101[0.5]	8/2/2004	Colma	< 3.6	< 3.6	< 3.6 b UJ	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8 b UJ	< 3.6	< 1.8	< 3.6	< 3.6	< 3.6	< 3.6	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 65
BB3EX102[0.5]	8/2/2004	Sand	< 3.4	< 3.4	< 3.4 b UJ	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7 b UJ	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX103[0.5]	8/2/2004	Sand	< 3.5	< 3.5	< 3.5 b UJ	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8 b UJ	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX104[0.5]	8/2/2004	Sand	< 3.4	< 3.4	< 3.4 b UJ	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8 b UJ	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX105[0.5]	8/2/2004	Sand	< 3.4	< 3.4	< 3.4 b UJ	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8 b UJ	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX106[0.5]	8/4/2004	Sand	< 3.4	3.7	6.2	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX107[0.5]	8/5/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4 b UJ	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX108[0.5]	8/5/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.4	< 1.8	< 1.8	< 1.8	< 18	< 64
BB3EX108[0.5]-DUP080504A	8/5/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.4	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX109[0.5]	8/6/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4 b UJ	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX110[0.5]	8/6/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4 b UJ	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX111[0.5]	8/18/2004	Sand	< 3.4	< 3.4	< 3.4 # UJ	< 1.8	< 1.8	< 1.8	< 1.8 UJ	< 31	< 1.8 UJ	< 3.4	< 1.8	< 3.4	< 3.4 UJ	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18 # UJ	< 62
BB3EX112[0.5]	8/18/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4 UJ	< 3.4	< 3.4 UJ	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX113[0.5]	8/18/2004	Sand	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	1.7 C	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3 UJ	< 3.3	< 3.3 UJ	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 60
BB3EX114[0.5]	8/18/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5 UJ	< 3.5	< 3.5 UJ	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX115[0.5]	8/18/2004	Sand	3.9	15	**15**	< 1.8	3.7 C	< 1.8	< 1.8	< 31	< 1.8	6.8	< 1.8	< 3.4	< 3.4 UJ	< 3.4	< 3.4 UJ	3.2	6.9	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX116[0.5]	8/18/2004	Sand	< 7.4	< 7.4	< 7.4	< 3.8	< 3.8	< 3.8	< 3.8	< 68	< 3.8	< 7.4	< 3.8	< 7.4	< 7.4 UJ	**< 7.4**	**< 7.4**	< 3.8	< 3.6	< 3.8	< 3.8	< 3.8	< 38	< 140
BB3EX118[0.5]	8/30/2004	Colma	< 4.2	< 4.2	< 4.2	< 2.1	< 2.1	< 2.1	< 2.1	< 38	< 2.1	< 4.2	< 2.1	< 4.2	< 4.2 UJ	**< 4.2**	**< 4.2**	< 2.1	< 4.2	< 2.1	< 2.1	< 2.1	< 21	< 76
BB3EX120[0.5]	8/30/2004	Sand	5.7	< 3.4	**11 # J-**	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4 UJ	< 3.4	< 3.4	1.1 J	< 2.8	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX120[0.5]-DUP083004A	8/30/2004	Sand	< 3.4	< 3.4	4.8[5] # J-	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4 UJ	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX121[0.5]	8/30/2004	Sand	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3 UJ	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 60
BB3EX123[0.5]	9/14/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX124[0.5]	9/14/2004	Sand	< 3.3	< 3.3	< 3.3	< 1.7 UJ	< 1.7	< 1.7 UJ	< 1.7 UJ	< 30	< 1.7 UJ	< 3.3	< 1.7 UJ	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7 UJ	< 1.7 UJ	< 1.7 UJ	< 17	< 60
BB3EX125[0.5]	9/14/2004	Sand	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX126[0.5]	9/14/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 62
BB3EX127[0.5]	9/14/2004	Sand	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX130[0.5]	10/1/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4 # UJ	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX131[0.5]	10/1/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX131[0.5]-DUP100104A	10/1/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 64
BB3EX132[0.5]	10/1/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX137[0.5]	11/5/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8 UJ	< 1.8	< 1.8 UJ	< 1.8 UJ	< 31	< 1.8 UJ	< 3.4	< 1.8 UJ	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8 UJ	< 1.8 UJ	< 1.8 UJ	< 18	< 62
BB3EX138[0.5]	11/5/2004	Sand	< 3.6	< 3.6	< 3.6	< 1.8 UJ	< 1.8	< 1.8 UJ	< 1.8 UJ	< 33	< 1.8 UJ	< 3.6	< 1.8 UJ	< 3.6	< 3.6	< 3.6	< 3.6	< 1.8	< 3.6	< 1.8 UJ	< 1.8 UJ	< 1.8 UJ	< 18	< 65
BB3EX139[0.5]	11/5/2004	Sand	< 3.4	< 3.4	< 3.4 # UJ	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX140[0.5] [4]	11/5/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX141[2.5] [2]	11/5/2004	Pre-1958 Road Fill	< 3.7	< 3.7	< 3.7	< 1.9	< 1.9	< 1.9	< 1.9	< 33	< 1.9	< 3.7	< 1.9	< 3.7	< 3.7	< 3.7	< 3.7	< 1.9	< 3.8	< 1.9	< 1.9	< 1.9	< 19	< 66
BB3EX141[5.5] [2]	11/5/2004	Pre-1958 Road Fill	< 3.5	< 3.5	< 3.5	< 1.8 UJ	< 1.8	< 1.8 UJ	< 1.8 UJ	< 32	< 1.8 UJ	< 3.5	< 1.8 UJ	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8 UJ	< 1.8 UJ	< 1.8 UJ	< 18	< 64
BB3EX142[0.5] [4]	11/5/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX143[0.5]	11/5/2004	Sand	< 3.6	< 3.6	< 3.6	< 1.8	< 1.8	< 1.8	< 1.8	< 33	< 1.8	< 3.6	< 1.8	< 3.6	< 3.6	< 3.6	< 3.6	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 65
BB3EX143[0.5]-DUP110504A	11/5/2004	Sand	< 7.2	< 7.2	< 7.2	< 3.7	< 3.7	< 3.7	< 3.7	< 65	< 3.7	< 7.2	< 3.7	< 7.2	< 7.2	**< 7.2**	**< 7.2**	< 3.7	< 7.4	< 3.7	< 3.7	< 3.7	< 37	< 130
BB3EX144[0.5]	11/5/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX145[0.5]	11/22/2004	Chert	4.2	< 3.4	**10 C**	< 1.7	2.3	< 1.7	< 1.7	< 31	< 1.7	9.8	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	3.5 C	5.8	**18**	< 1.7	< 1.7	< 17	< 62
BB3EX145[1.0]	11/22/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	**15**	< 1.8	< 1.8	< 18	< 63
BB3EX146[0.5]	11/22/2004	Chert	< 3.3	4.2	**11**	< 1.7	1.9	< 1.7	< 1.7	< 30	< 1.7	6.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	2.1	4	2.7	< 1.7	< 1.7	< 17	< 60
BB3EX146[1.0]	11/22/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8 UJ	< 1.8	< 1.8 UJ	< 1.8 UJ	< 31	< 1.8 UJ	< 3.4	< 1.8 UJ	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8 UJ	< 1.8 UJ	< 1.8 UJ	< 18	< 63
BB3EX147[0.5]	11/22/2004	Chert	< 3.5	< 3.5	7	< 1.8	1.6 J	< 1.8	< 1.8	< 32	< 1.8	4.8 C	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	1.7 CJ	3.3	4.4	< 1.8	< 1.8	< 18	< 64
BB3EX147[1.5]	11/22/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX148[0.5]	11/22/2004	Chert	< 3.6	3.9	**15**	< 1.9	2.6	< 1.9	< 1.9	< 33	< 1.9	8.4	< 1.9	< 3.6	< 3.6	< 3.6	< 3.6	3.1	5.7	**14**	< 1.9	< 1.9	< 19	< 66
BB3EX149[0.5]	11/22/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX150[0.5]	11/22/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX150[2.5]	11/22/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 64
BB3EX150[2.5]-DUP112204A	11/22/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 64
BB3EX151[0.5]	11/23/2004	Chert	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 64
BB3EX152[0.5]	11/23/2004	Chert	< 3.6	< 3.6	< 3.6	< 1.8	< 1.8	< 1.8	< 1.8	< 33	< 1.8	< 3.6	< 1.8	< 3.6	< 3.6	< 3.6	< 3.6	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 65
BB3EX153[0.5]	11/23/2004	Sand	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 60
BB3EX154[0.5]	11/23/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 32	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 64
BB3EX154[0.5]-DUP112304A	11/23/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB3EX155[0.5]	12/15/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.4	< 1.8	< 1.8	< 1.8	< 18	< 62
BB3EX156[0.5]	12/16/2004	Sand	< 3.5	< 3.5	< 3.5	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.5	< 1.8	< 3.5	< 3.5	< 3.5	< 3.5	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 63
BB3EX156[0.5]-DUP121604A	12/16/2004	Sand	< 3.4	< 3.4	< 3.4	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 62

NOTES:
µg/kg - micrograms per kilogram
Values in red/bold typeface indicate cleanup level exceedances.
Green shading indicates area was overexcavated.
1 For this compound, in cases where the detection limit exceeds the cleanup level, the laboratory verified that the compound was not present between the Practical Quantification Limit (PQL) and the lower Method Detection Limit (MDL).
Therefore, if a detected or an estimated concentration is not reported, it can be assumed that the compound is not present at concentrations exceeding the MDL or the cleanup level.
2 Results for alpha-chlordane and gamma-chlordane are summed for comparison to the RAP cleanup level of 9 µg/kg.
3 Cleanup levels from Cleanup Levels Document.
4 Pre-1958 Road Fill consists of a mixture of Colma, beach/dune sand, and serpentinite. Analytical results are compared against the cleanup level for serpentinite.
5 Continuing Calibration Verification (CCV) drift outside limits; average CCV drift within limits per method requirements
b : The %D of the continuing calibration standards were outside acceptance limits
C : Presence confirmed, but RPD between columns exceeds 40%
J : Estimated Value
J- : The analyte was positively identified; the associated numerical value is biased low due to a low surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
: CCV drift outside limits; average CCV drift within limits per method requirements

Table 8
Summary of PCB Results in Soil Confirmation Samples
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Lithology	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Cleanup Levels		**Colma**	**33**	**33**	**33**	**33**	**33**	**33**	**33**
		Sand	**33**	**33**	**33**	**33**	**33**	**33**	**33**
		Serpentinite	**33**	**33**	**33**	**33**	**33**	**33**	**33**
		Chert [1]	**33**	**33**	**33**	**33**	**33**	**33**	**33**
BB3EX100[0.5]	7/30/2004	Sand	< 12	< 24	< 12	< 12	< 12	**39**	< 12
BB3EX101[0.5]	8/2/2004	Colma	< 13	< 26	< 13	< 13	< 13	< 13	< 13
BB3EX102[0.5]	8/2/2004	Sand	< 12	< 24	< 12	< 12	< 12	< 12	< 12
BB3EX103[0.5]	8/2/2004	Sand	< 13	< 25	< 13	< 13	< 13	< 13	< 13
BB3EX104[0.5]	8/2/2004	Sand	< 12	< 25	< 12	< 12	< 12	< 12	< 12
BB3EX105[0.5]	8/2/2004	Sand	< 12	< 25	< 12	< 12	< 12	< 12	< 12
BB3EX106[0.5]	8/4/2004	Sand	< 12	< 24	< 12	< 12	< 12	< 12	< 12
BB3EX107[0.5]	8/5/2004	Sand	< 13	< 25	< 13	< 13	< 13	< 13	< 13
BB3EX108[0.5]	8/5/2004	Sand	< 13	< 25	< 13	< 13	< 13	< 13	< 13
BB3EX108[0.5]-DUP080504A	8/5/2004	Sand	< 13	< 25	< 13	< 13	< 13	< 13	< 13
BB3EX109[0.5]	8/6/2004	Sand	< 12	< 25	< 12	< 12	< 12	< 12	< 12
BB3EX110[0.5]	8/6/2004	Sand	< 12	< 24	< 12	< 12	< 12	< 12	< 12
BB3EX111[0.5]	8/18/2004	Sand	< 9.9	< 20	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
BB3EX112[0.5]	8/18/2004	Sand	< 9.7	< 19	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
BB3EX113[0.5]	8/18/2004	Sand	< 9.7	< 19	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
BB3EX114[0.5]	8/18/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX115[0.5]	8/18/2004	Sand	< 10	< 20	< 10	< 10	< 10	**36**	20
BB3EX116[0.5]	8/18/2004	Sand	< 11	< 22	< 11	< 11	< 11	< 11	< 11
BB3EX118[0.5]	8/30/2004	Colma	< 12 UJ	< 24 UJ	< 12 UJ	< 12 UJ	< 12 UJ	< 12 UJ	< 12 UJ
BB3EX120[0.5]	8/30/2004	Sand	< 9.9	< 20	< 9.9	< 9.9	**180**	< 9.9	< 9.9
BB3EX120[0.5]-DUP083004A	8/30/2004	Sand	< 10	< 20	< 10	< 10	**110**	< 10	< 10
BB3EX121[0.5]	8/30/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX123[0.5]	9/14/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX124[0.5]	9/14/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX125[0.5]	9/14/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX126[0.5]	9/14/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX127[0.5]	9/14/2004	Sand	< 9.7	< 19	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
BB3EX130[0.5]	10/1/2004	Sand	< 9.6	< 19	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
BB3EX131[0.5]	10/1/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX131[0.5]-DUP100104A	10/1/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX132[0.5]	10/1/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX137[0.5]	11/5/2004	Sand	< 9.9	< 20	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
BB3EX138[0.5]	11/5/2004	Sand	< 10	< 21	< 10	< 10	< 10	< 10	< 10
BB3EX139[0.5]	11/5/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX140[0.5]	11/5/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX141[2.5] [2]	11/5/2004	Pre-1958 Road Fill	< 11	< 21	< 11	< 11	< 11	< 11	< 11
BB3EX141[5.5] [2]	11/5/2004	Pre-1958 Road Fill	< 10	< 21	< 10	< 10	< 10	< 10	< 10
BB3EX142[0.5]	11/5/2004	Sand	< 9.8	< 20	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
BB3EX143[0.5]	11/5/2004	Sand	< 10	< 21	< 10	< 10	< 10	< 10	< 10
BB3EX143[0.5]-DUP110504A	11/5/2004	Sand	< 11	< 21	< 11	< 11	< 11	< 11	< 11
BB3EX144[0.5]	11/5/2004	Sand	< 9.7	< 19	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
BB3EX145[0.5]	11/22/2004	Chert	< 9.7	< 19	< 9.7	< 9.7	< 9.7	**83**	< 9.7
BB3EX145[1.0]	11/22/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX146[0.5]	11/22/2004	Chert	< 9.9	< 20	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
BB3EX146[1.0]	11/22/2004	Sand	< 9.9	< 20	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
BB3EX147[0.5]	11/22/2004	Chert	< 10	< 21	< 10	< 10	**45**	< 10	< 10
BB3EX147[1.5]	11/22/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX148[0.5]	11/22/2004	Chert	< 11	< 21	< 11	< 11	**92**	< 11	< 11
BB3EX149[0.5]	11/22/2004	Sand	< 9.9	< 20	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9
BB3EX150[0.5]	11/22/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX150[2.5]	11/22/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX150[2.5]-DUP112204A	11/22/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX151[0.5]	11/23/2004	Chert	< 10	< 21	< 10	< 10	< 10	< 10	< 10
BB3EX152[0.5]	11/23/2004	Chert	< 10	< 21	< 10	< 10	< 10	< 10	< 10
BB3EX153[0.5]	11/23/2004	Sand	< 9.8	< 20	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8
BB3EX154[0.5]	11/23/2004	Sand	< 10	< 21	< 10	< 10	< 10	< 10	< 10
BB3EX154[0.5]-DUP112304A	11/23/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX156[0.5]	12/16/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10
BB3EX156[0.5]-DUP121604A	12/16/2004	Sand	< 10	< 20	< 10	< 10	< 10	< 10	< 10

NOTES:
µg/kg - micrograms per kilogram
Values in red/bold typeface indicate cleanup level exceedances.
Green shading indicates area was overexcavated.
1 Cleanup levels from Cleanup Levels Document.
2 Pre-1958 Road Fill consists of a mixture of Colma, beach/dune sand, and serpentinite. Analytical results are compared against the cleanup level for serpentinite.
UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 9
Remaining Metals Exceedances Rationale
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID and Lithology	Metal and Exceedance Concentration	Cleanup Level	Rationale
BB3EX128[0.5] *Colma*	Nickel: 150 mg/kg	Colma: 110 mg/kg	Based on a calculation of the 95% UCL of the mean, the remaining nickel concentrations at BBDA 3 as a whole, including this point, do not pose an unacceptable risk to human health or the environment. The result is considered acceptable for this sample.
BB3EX128[0.5] *Colma*	Selenium: 0.7 mg/kg	Colma: 0.5 mg/kg Sand: 0.75 mg/kg	This sample likely contains a mixture of sand and Colma soil, which results in an elevated selenium concentration relative to the cleanup level (CL) for Colma, but below the CL for sand. The result is considered acceptable for this sample.
BB3EX141 [2.5] *Pre-1958 Road Fill*	Vanadium: 91 mg/kg	Serpentinite: 74 mg/kg Sand: 92 mg/kg	This sample was collected from engineered fill underlying Battery Crosby Road. Based on visual inspection in the field, it likely contains a mixture of sand, Colma soil, and serpentinite, resulting in an elevated vanadium concentration relative to the CL for serpentinite, but below the CL for sand. The result is considered acceptable for this sample (95% Upper confidence limit [UCL] calculation also applies).
BB3EX141 [5.5] *Pre-1958 Road Fill*	Vanadium: 100 mg/kg	Serpentinite: 74 mg/kg Sand: 92 mg/kg	Based on a calculation of the 95% UCL of the mean, the remaining vanadium concentrations at BBDA 3 as a whole, including this point, do not pose an unacceptable risk to human health or the environment. The result is considered acceptable for this sample.
BB3EX151[0.5] *Chert*	Selenium: 0.72 mg/kg	Chert: 0.5 mg/kg	Based on a calculation of the 95% UCL of the mean, the remaining selenium concentrations at BBDA 3 as a whole, including this point, do not pose an unacceptable risk to human health or the environment. The result is considered acceptable for this sample.
BB3EX152[0.5] *Chert*	Selenium: 1.3 mg/kg	Chert: 0.5 mg/kg	Based on a calculation of the 95% UCL of the mean, the remaining selenium concentrations at BBDA 3 as a whole, including this point, do not pose an unacceptable risk to human health or the environment. The result is considered acceptable for this sample.

Notes
1) Samples BB3EX141[2.5] and BB3EX141[5.5] were logged as "Engineered Fill" and representative of pre-1958 road fill and consist of a mixture of beach/dune sand, Colma soil, and serpentinite.
2) Cleanup levels for chert presented in these tables were derived from the Cleanup Levels Document. Cleanup levels for beach/dune sand, Colma soil, and serpentinite are presented in the Remedial Action Plan (RAP) (Treadwell & Rollo, 2004a).

Table 10
Summary of TPH Results in Soil Confirmation Samples
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Lithology	TPH Diesel	TPH Fuel Oil
			mg/kg	mg/kg
Cleanup Levels		**Sand**	**700**	**980**
BB3EX108[0.5]	8/5/2004	Sand	2.3 Y	< 5.3
BB3EX108[0.5]-DUP080504A	8/5/2004	Sand	1.8 Y	< 5.2
BB3EX116[0.5]	8/18/2004	Sand	36 H	87 L
BB3EX130[0.5]	10/1/2004	Sand	10 HY	32
BB3EX139[0.5]	11/5/2004	Sand	< 1	< 5.2
BB3EX149[0.5]	11/22/2004	Sand	9.4 HY	18
BB3EX153[0.5]	11/23/2004	Sand	10 HY	25

NOTES:
mg/kg - milligrams per kilogram
TPH - Total petroleum hydrocarbons
Green shading indicates area was overexcavated.
H : Heavier hydrocarbons contributed to the quantitation
L : Lighter hydrocarbons contributed to the quantitation
Y : Sample exhibits chromagraphic pattern which does not resemble standard

Table 11
Summary of SVOC and VOC Results in Soil Confirmation Samples
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Lithology	1,4-Dichloro-benzene	2-Methylnaph-thalene	4-Methyl-phenol	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene[1]	Benzo(a) pyrene[1]	Benzo(b) fluoranthene[1]	Benzo(g,h,i) perylene	Benzo(k) fluoranthene[1]	Benzyl alcohol	Chrysene	Dibenz(a,h) anthracene[1]	Dibenzo-furan	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene[1]	Naphthalene	N-Nitroso-diphenyl-amine	Pentachloro-phenol	Phenanthrene	Phenol	Pyrene	All Other SVOCs	1,1,1-Tri-chloroethane	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Carbon Disulfide	Ethyl-benzene	Naphthalene	Toluene	Trichloro-fluoromethane	All Other VOCs
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Cleanup Levels		**Sand**	**130**	**30,000**	**50,000**	**30,000**	**30,000**	**30,000**	**270**	**27**	**270**	**30,000**	**270**	**1,000**	**2,700**	**78**	**910,000**	**30,000**	**30,000**	**270**	**30,000**	**20,000**	**3,000**	**30,000**	**30,000**	**30,000**	**--**	**8,000**	**130**	**3,800**	**240**	**600**	**200,000**	**60,000**	**30,000**	**270,000**	**40,000**	**--**
BB3EX108[0.5]	8/5/2004	Sand	**< 360**	< 360	< 360	< 710	< 360	< 360	< 71	< 71	< 71	< 360	< 71	< 360	< 360	< 71	< 360	< 360	< 360	< 71	< 360	< 360	< 710	< 360	< 360	< 360	ND	< 5.2	< 5.2	< 10	< 21	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	< 5.2	ND
BB3EX108[0.5]-DUP080504A	8/5/2004	Sand	**< 350**	< 350	< 350	< 700	< 350	< 350	< 70	< 70	< 70	< 350	< 70	< 350	< 350	< 70	< 350	< 350	< 350	< 70	< 350	< 350	< 700	< 350	< 350	< 350	ND	< 4.9	< 4.9	< 9.8	< 20	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	ND
BB3EX116[0.5]	8/18/2004	Sand	**< 380**	< 380	< 380	< 760	< 380	< 380	**580**	**620**	**450**	< 380	**690**	< 380	790	27 J	< 380	1600	< 380	**300**	< 380	< 380	< 760	1500	< 380	1500 J-	ND	< 5.4	< 5.4	14	72	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	ND
BB3EX119[0.5]	8/30/2004	Sand	**< 360**	< 360	< 360	< 720	< 360	< 360	< 72	**< 72**	< 72	< 360	< 72	< 360	< 360	< 72	< 360	< 360	< 360	< 72	< 360	< 360	< 720	< 360	< 360	< 360	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB3EX130[0.5]	10/1/2004	Sand	**< 340**	< 340	< 340	< 670	< 340	< 340	< 67	**< 67**	< 67	< 340	< 67	< 340	< 340	< 67	< 340	< 340	< 340	< 67	< 340	< 340	< 670	< 340	< 340	< 340	ND	< 5.1	< 5.1	< 10	< 20	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	ND
BB3EX139[0.5]	11/5/2004	Sand	**< 340**	< 340	< 340	< 690	< 340	< 340	< 69	**< 69**	< 69	< 340	< 69	< 340	< 340	< 69	< 340	< 340	< 340	< 69	< 340	< 340	< 690	< 340	< 340	< 340	ND	< 5	< 5	< 10	< 20	< 5	< 5	< 5	< 5	< 5	< 5	ND
BB3EX149[0.5]	11/22/2004	Sand	**< 340**	< 340	< 340	< 690	< 340	< 340	< 69	**< 69**	< 69	< 340	< 69	< 340	< 340	< 69	< 340	< 340	< 340	< 69	< 340	< 340	< 690	< 340	< 340	< 340	ND	< 4.7	< 4.7	< 9.5	< 19	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	ND
BB3EX153[0.5]	11/23/2004	Sand	**< 340**	< 340	< 340	< 680	< 340	< 340	< 68	**< 68**	< 68	< 340	< 68	< 340	< 340	< 68	< 340	< 340	< 340	< 68	< 340	< 340	< 680	< 340	< 340	< 340	ND	< 4.7	< 4.7	< 9.4	< 19	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	ND

NOTES:
µg/kg - micrograms per kilogram
ND - Not detected; detection limits vary
NA - Not analyzed
VOC - Volatile organic compound
SVOC - Semi-volatile organic compound
Values in red/bold typeface indicate cleanup level exceedances.
Green shading indicates area was overexcavated.
1 For this compound, in cases where the detection limit exceed the cleanup level, the laboratory verified that the compound was not present between the Practical Quantification Limit (PQL) and the lower Method Detection Limit (MDL).
J : The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J- : The analyte was positively identified; the associated numerical value is biased low due to a low surrogate recovery and should be considered an approximate concentration of the analyte in the sample.

Table 12
Summary of Chlorinated Herbicide Results in Soil Confirmation Samples
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Lithology	2,4-D [1]	2,4 DB	Dalapon	Dicamba [1]	Dichloroprop	Dinoseb (DNBP)	MCPA	MCPP [1]	2,4,5-T	2,4,5-TP (SILVEX)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Cleanup Levels		**Sand**	**0.025**	**--**	**--**	**0.01**	**--**	**--**	**--**	**5**	**--**	**--**
BB3EX108[0.5]	8/5/2004	Sand	**< 0.026**	< 0.10	< 0.10	< 0.010	< 0.026	< 0.026	< 5.2	**< 5.2**	< 0.010	< 0.010
BB3EX108[0.5]-DUP080504A	8/5/2004	Sand	**< 0.026**	< 0.10	< 0.10	< 0.010	< 0.026	< 0.026	< 5.2	**< 5.2**	< 0.010	< 0.010
BB3EX116[0.5]	8/18/2004	Sand	**< 0.029 U**	< 0.12 U	< 0.12 U	**< 0.012 U**	< 0.029 U	< 0.029 U	< 5.9 U	**< 5.9 U**	< 0.012 U	< 0.012 U
BB3EX130[0.5]	10/1/2004	Sand	**< 0.027 U**	< 0.11 U	< 0.11 U	**< 0.011 U**	< 0.027 U	< 0.027 U	< 5.3 U	**< 5.3 U**	< 0.011 U	< 0.011 U
BB3EX139[0.5]	11/5/2004	Sand	**< 0.026 U**	< 0.11 U	< 0.11 U	**< 0.011 U**	< 0.026 U	< 0.026 U	< 5.3 U	**< 5.3 U**	< 0.011 U	< 0.011 U
BB3EX149[0.5]	11/22/2004	Sand	**< 0.026 U**	< 0.10 U	< 0.10 U	< 0.010 U	< 0.026 U	< 0.026 U	< 5.2 U	**< 5.2 U**	< 0.010 U	< 0.010 U
BB3EX153[0.5]	11/23/2004	Sand	**< 0.026 U**	< 0.10 U	< 0.10 U	< 0.010 U	< 0.026 U	< 0.026 U	< 5.1 U	**< 5.1 U**	< 0.010 U	< 0.010 U

NOTES:
mg/kg - milligrams per kilogram
Values in red/bold typeface indicate cleanup level exceedances.
Green shading indicates area was overexcavated.
1 For this compound, in cases where the detection limit exceed the cleanup level, the laboratory verified that the compound was not present between the Practical Quantification Limit (PQL) and the lower Method Detection Limit (MDL). Therefore, if a detected or an estimated concentration is not reported, it can be assumed that the compound is not present at concentrations exceeding the MDL or the cleanup level.
U : The analyte was analyzed for, but was not detected above, the reported sample quantitation limit
2,4-D - 2,4-Dichlorophenoxyacetic acid
2,4 DB - 4-(2,4-dichlorophenoxy) butyric acid
MCPA - (4-chloro-2-methylphenoxy) acetic acid
MCPP - 2-(2-Methyl-4-chlorophenoxy) propionic acid
2,4,5-T - (2,4,5-trichlorophenoxy) acetic acid

Table 13
Trip Blank Sample Results
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

Sample ID	Sample Date	Bromoform	Bromomethane	CFC-12	All Other VOCs
	Analytical Method	SW8260M	SW8260M	SW8260M	SW8260M
	Units	µg/L	µg/L	µg/L	µg/L
TB081804A	8/18/2004	< 1	< 1 UJ	< 1 UJ	ND
TB100104A	10/1/2004	< 1	< 1	< 1	ND
TB100704A	10/7/2004	< 1	< 1	< 1	ND
TB110504A	11/5/2004	< 1 UJ	< 1	< 1	ND
TB112204A	11/22/2004	< 1	< 1	< 1	ND
TB112304A	11/23/2004	< 1	< 1	< 1	ND

NOTES:
µg/L - micrograms per Liter
VOCs - Volatile organic compounds
ND - Not detected
UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 14
Summary of Waste Streams and Quantities
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

Waste Stream	BBDA 3 Quantity (tons)[1]		BBDA 3 Quantity (cubic yards)[2]		BBDA 4 Quantity (tons)[1]	BBDA 4 Quantity (cubic yards)[3]
	Excavated Prior to 29 November 2004[4]	Excavated After 29 November 2004[5]	Excavated Prior to 29 November 2004	Excavated After 29 November 2004	Excavated Prior to 21 October 2004	Excavated Prior to 21 October 2004
Wood Waste Recycling						
Wilabrator Cogeneration Plant Anderson, CA	663[6]	--	444[6]	--	--	--
Marin County FireSafe Projects Marin County, CA	117[6]	--	78[6]	--	--	--
West Contra Costa Landfill Richmond CA	88	--	59	--	--	--
Tire Recycling						
Recovery West Livermore, CA	4	--	3	--	--	--
Class III Vegetation/Soil Mix						
BFI Ox Mountain Sanitary Landfill Half Moon Bay, CA	--	--	--	--	85	52
Class III Soil						
BFI Ox Mountain Sanitary Landfill Half Moon Bay, CA	1,740	151	1,164	101	--	--
Class II Soil/Concrete						
Waste Management Altamont Landfill Livermore, CA	11,447	615	7,657	411	651	400
Class I Soil						
California Hazardous Waste						
CleanAmerica Buttonwillow Landfill Buttonwillow CA	42,770	--	28,610	--	--	--
Subotals	**56,829**	**766**	**37,493**[7]	**512**	--	--
Totals	**57,595**		**38,005**		**736**	**452**[7]

Notes

[1] Weight, in tons, for each waste stream and each site is based on weight tickets or manifests (included in Appendix H).

[2] Volume, in cubic yards, for each waste stream is calculated by using a conversion factor. For BBDA 3, the conversion factor (units of tons per bank cubic yard) is calculated by dividing the total weight of materials excavated prior to the survey taken on 29 November 2004 (i.e., 88 tons of excavated wood waste; 4 tons of excavated tires; 1,740 tons of Class III waste; 11,447 tons of Class II waste; and 42,770 tons of Class I waste; a total of 56,049 tons) by the total volume of excavated materials (37,493 bank cy), as determined by the 29 November 2004 survey (shown as Figure 8). For BBDA 3, the conversion factor is therefore 1.495 tons/cy.

[3] Volume, in cubic yards, for each waste stream is calculated by using a conversion factor. For BBDA 4, the conversion factor (units of tons per bank cubic yard) is calcualted by dividing the total weight of materials excavated prior to the survey taken on 21 October 2004 (i.e., 85 tons of Class III waste; and 651 tons of Class II waste; a total of 736 tons) by the total volume of excavated material (452 bank cy), as determined by the 21 October 2004 survey (shown as Figure 9). For BBDA 4, the conversion factor is therefore 1.628 tons/cy. No materials were excavated or removed from BBDA 4 after the 21 October 2004 survey.

[4] The post-construction survey for BBDA 3 was completed on 29 November 2004; the final survey is pending the reconstruction of Battery Crosby Road. The final survey for BBDA 4 was completed on 21 October 2004.

[5] Two categories of material were removed from BBDA 3 after the 29 November 2004 survey: 615 tons of impacted Battery Crosby Road material which was excavated on 15 December 2004 and offhauled for Class II disposal on 16 and 17 December 2004 and 151 tons of surface soils overexcavated at the request of DTSC on 4 January 2005 and offhauled for Class III disposal on 18 January 2005.

[6] Prior to the commencement of remedial exavation, tree and brush removal activities were performed at BBDA 3. A total of 780 tons of green waste was chipped and recycled. This tonnage has not been included in the caluclation of the BBDA 3 conversion factor (Footnote 2), as it was not part of the 37,493 bank cy of material excavated according to the 29 November 2004 survey. However, the conversion factor of 1.495 tons/cy has been applied to provide an estimate of the volume of the recycled green waste (444 cy + 78 cy = 522 cy).

[7] Volume (bank cubic yards) of fill material removed, based on surveys dated 29 November 2004 (BBDA 3) and 21 October 2004 (BBDA 4) (Figures 8 and 9).

Table 15
Summary of Metals Results in Soil Confirmation Samples
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Sample ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Cleanup Levels	**Sand**	**5**	**5.9**	**320**	**10**	**1.7**	**120**	**20**	**43**	**--**	**160**	**--**	**--**	**12**	**70**	**0.75**	**2**	**1**	**92**	**66**
BB4EX100[0.5]	10/7/2004	< 2.1	3	11	0.13	0.78	51	5.3	3.7	14,000	2.5	150	< 0.019	< 0.7	22	< 0.17	< 0.17	< 0.17	44	20
BB4EX100[0.5]-DUP100704A	10/7/2004	< 2.5	3.1	12	0.14	0.68	50	5.2	3.2	13,000	2.2	140	< 0.018	< 0.85	23	< 0.21	< 0.21	< 0.21	39	19
BB4EX101[0.5]	10/7/2004	< 2.9	3.1	18	0.13	0.74	40	5.5	5	14,000	10	160	NA	< 0.97	22	< 0.24	< 0.24	< 0.24	41	24
BB4EX102[0.5]	10/7/2004	< 2.1	3.2	17	0.11	0.75	39	5.1	3.7	14,000	2.2	150	NA	< 0.72	20	< 0.18	< 0.18	< 0.18	42	16
BB4EX103[0.5]	10/7/2004	< 2.6	3.1	17	0.11	0.72	41	5.2	3.8	13,000	2.6	140	NA	< 0.87	21	< 0.22	< 0.22	< 0.22	42	17
BB4EX104[0.5]	10/7/2004	< 3.1	3.5	24	0.13	0.86	47	5.6	6.2	15,000	31	190	NA	< 1	23	< 0.26	< 0.26	< 0.26	42	35
BB4EX105[0.5]	10/7/2004	< 2.9	3.7	19	0.14	0.91	57	6.2	4.7	16,000	3.3	170	NA	< 0.98	25	< 0.25	< 0.25	< 0.25	54	23
BB4EX106[0.5]	10/7/2004	< 2.1	2.9	16	0.14	0.85	53	5.8	4.5	16,000	10	170	NA	< 0.72	24	< 0.18	< 0.18	< 0.18	48	28
BB4EX107[0.5]	10/7/2004	< 2.7	2.5	18	0.13	0.53	34	4.6	3.4	9,900	1.7	180	NA	< 0.9	19	< 0.23	< 0.23	< 0.23	29	21

NOTES:
mg/kg - milligrams per kilogram
NA - Not Analyzed

Table 16
Summary of OCP Results in Soil Confirmation Samples
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Sample ID	Sample Date	4,4'-DDD [1]	4,4'-DDE	4,4'-DDT [1]	Aldrin [1]	alpha-Chlordane	alpha-BHC	beta-BHC	Chlordane (Technical)	delta-BHC	Dieldrin [1]	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin [1]	Endrin ketone [1]	gamma-Chlordane	alpha & gamma Chlordane [1,2]	gamma-BHC [1]	Heptachlor [1]	Heptachlor epoxide [1]	Methoxychlor	Toxaphene
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Cleanup Levels	**Sand**	**49**	**98**	**8.2**	**3.9**	**--**	**62**	**62**	**--**	**62**	**30**	**1100**	**1100**	**1100**	**4**	**4**	**--**	**9**	**10**	**17**	**17**	**440**	**--**
BB4EX100[0.5]	10/7/2004	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 60
BB4EX100[0.5]-DUP100704A	10/7/2004	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 60
BB4EX101[0.5]	10/7/2004	< 3.4	< 3.4	< 3.4	< 1.8	< 1.8	< 1.8	< 1.8	< 31	< 1.8	< 3.4	< 1.8	< 3.4	< 3.4	< 3.4	< 3.4	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 18	< 62
BB4EX102[0.5]	10/7/2004	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB4EX103[0.5]	10/7/2004	< 3.3	< 3.3	< 3.3 [3]	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3 [3]	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 60
BB4EX104[0.5]	10/7/2004	**< 67**	< 67	**< 67 # UJ**	**< 34**	< 34	< 34	< 34	< 610	< 34	**< 67**	< 34	< 67	< 67	**< 67**	**< 67 # UJ**	< 34	**< 68**	**< 34**	**< 34**	**< 34**	< 340	< 1200
BB4EX105[0.5]	10/7/2004	< 3.4	< 3.4	< 3.4	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61
BB4EX106[0.5]	10/7/2004	< 3.3	< 3.3	< 3.3 # UJ	< 1.7	< 1.7	< 1.7	< 1.7	< 30	< 1.7	< 3.3	< 1.7	< 3.3	< 3.3	< 3.3	< 3.3 # UJ	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 60
BB4EX107[0.5]	10/7/2004	< 3.4	< 3.4	< 3.4 # UJ	< 1.7	< 1.7	< 1.7	< 1.7	< 31	< 1.7	< 3.4	< 1.7	< 3.4	< 3.4	< 3.4	< 3.4 # UJ	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 17	< 61

Notes
µg/kg - micrograms per kilogram
Values in red/bold typeface indicate cleanup level exceedances.
1 For this compound, in cases where the detection limit exceeds the cleanup level, the laboratory verified that the compound was not present between the Practical Quantification Limit (PQL) and the lower Method Detection Limit (MDL). Therefore, if a detected or an estimated concentration is not reported, it can be assumed that the compound is not present at concentrations exceeding the MDL or the cleanup level.
2 Results for alpha-chlordane and gamma-chlordane are summed for comparison to the RAP cleanup level of 9 µg/kg.
3 Continuing calibration verification (CCV) drift outside limits; average CCV drift within limits per method requirements
UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 17
Summary of PCB and TPH Results in Soil Confirmation Samples
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Sample ID	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	TPH Diesel	TPH Fuel Oil
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg
Cleanup Levels	**Sand**	**33**	**33**	**33**	**33**	**33**	**33**	**33**	**700**	**980**
BB4EX100[0.5]	10/7/2004	< 9.8	< 20	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	2.1 HY	7.1 Y
BB4EX100[0.5]-DUP100704A	10/7/2004	< 9.6	< 19	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 1	< 5.1

Notes

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

H : Heavier hydrocarbons contributed to the quantitation.

Y : Sample exhibits chromagraphic pattern which does not resemble standard.

Table 18
Summary of SVOC and VOC Results in Soil Confirmation Samples
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Sample ID	Sample Date	1,4-Dichloro-benzene[1]	2-Methylnaph-thalene	4-Methyl-phenol	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene[1]	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzyl alcohol	Chrysene	Dibenz(a,h) anthracene	Dibenzo-furan	Fluor-anthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	N-Nitroso-diphenyl-amine	Pentachloro-phenol	Phenanthrene	Phenol	Pyrene	All Other SVOCs	1,1,1-Tri-chloroethane	1,4-Dichloro-benzene	2-Butanone	Acetone	Benzene	Carbon Disulfide	Ethyl-benzene	Naphthalene	Toluene	Trichloro-fluoromethane	All Other VOCs
		µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Cleanup Levels	**Sand**	**130**	**30,000**	**50,000**	**30,000**	**30,000**	**30,000**	**270**	**27**	**270**	**30,000**	**270**	**1,000**	**2,700**	**78**	**910,000**	**30,000**	**30,000**	**270**	**30,000**	**20,000**	**3,000**	**30,000**	**30,000**	**30,000**	**--**	**8,000**	**130**	**3,800**	**240**	**600**	**200,000**	**60,000**	**30,000**	**270,000**	**40,000**	**--**
BB4EX100[0.5]	10/7/2004	**< 330**	< 330	< 330	< 660	< 330	< 330	< 66	**< 66**	< 66	< 330	< 66	< 330	< 330	< 66	< 330	< 330	< 330	< 66	< 330	< 330	< 660	< 330	< 330	< 330	ND	< 5.1	< 5.1	< 10	< 20	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	ND
BB4EX100[0.5]-DUP100704A	10/7/2004	**< 340**	< 340	< 340	< 680	< 340	< 340	< 68	**< 68**	< 68	< 340	< 68	< 340	< 340	< 68	< 340	< 340	< 340	< 68	< 340	< 340	< 680	< 340	< 340	< 340	ND	< 4.8	< 4.8	< 9.5	< 19	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	ND

NOTES:
µg/kg - micrograms per kilogram
ND - Not detected; detection limits vary.
Values in red/bold typeface indicate cleanup level exceedances.
1 For this compound, in cases where the detection limit exceeding the cleanup level, the laboratory verified that the compound was not present between the Practical Quantification Limit (PQL) and the lower Method Detection Limit (MDL). Therefore, if a detected or an estimated concentration is not reported, it can be assumed that the compound is not present at concentrations exceeding the MDL or the cleanup level.

Table 19
Summary of Chlorinated Herbicide Results in Soil Confirmation Samples
Baker Beach Disturbed Area 4
Presidio of San Francisco, California

Sample ID	Sample Date	2,4-D	2,4 DB	Dalapon	Dicamba	Dichloroprop	Dinoseb (DNBP)	MCPA	MCPP	2,4,5-T	2,4,5-TP (SILVEX)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Cleanup Levels	**Sand**	**0.025**		**--**	**0.01**	**--**	**--**	**--**	**5**	**--**	**--**
BB4EX100[0.5]	10/7/2004	< 0.025 U	< 0.1 U	< 0.1 U	< 0.01 U	< 0.025 U	< 0.025 U	< 5 U	< 5 U	< 0.01 U	< 0.01 U
BB4EX100[0.5]-DUP100704A	10/7/2004	< 0.025 U	< 0.1 U	< 0.1 U	< 0.01 U	< 0.025 U	< 0.025 U	< 5 U	< 5 U	< 0.01 U	< 0.01 U

Notes
mg/kg - milligrams per kilogram
U : The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.
2,4-D - 2,4-Dichlorophenoxyacetic acid
2,4 DB - 4-(2,4-dichlorophenoxy) butyric acid
MCPA - (4-chloro-2-methylphenoxy) acetic acid
MCPP - 2-(2-Methyl-4-chlorophenoxy) propionic acid
2,4,5-T - (2,4,5-trichlorophenoxy) acetic acid

Table 20
Monitoring Well, Piezometer, and Fixed Water Monitoring Point Construction Details
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Well ID	Installation Date	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)	Top of Casing Elevation (feet PLLW)
LF5GW100	07/13/00	28	8	2	20.5	10.0	20.0	229.74
LF5GW101	07/13/00	21	8	2	21.0	10.0	20.0	234.36
BB3GW100	12/06/04	36.5	8	2	36.0	26.0	36.0	193.84
BB3GW101	12/06/04	31.25	8	2	25.0	15.0	25.0	158.28
BB3PF100A	*04/30/03*	*57.5*	*8*	*2*	*57.5*	*47.5*	*57.5*	*177.56*
BB3PZ100B	*04/22/03*	*43*	*8*	*2*	*43.0*	*23.0*	*43.0*	*179.26*
BB3PZ101	12/13/04	48	8	2	17.0	2.0	17.0	156.97
BB3SW100	12/08/04	2.5	8	2	2.5	-1.89	2.5	67.34
BB3SW101	12/08/04	3	8	2	3.0	-1.00	3.0	78.98
BB3SW102	12/08/04	2.5	8	2	2.5	-2.19	2.5	115.39

Notes
feet PLLW - feet above Presidio Lower Low Water vertical datum
BB3PZ100A, BB3PZ100B - Temporary piezometers were abandoned on 4 June 2004 as part of excavation activities and on 21 September 2004 during excavation activities. Installation details and data are presented in *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3* (Treadwell & Rollo, 2004b).

Table 21
Results of Dissolved Oxygen Measurements and General Chemistry Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	Alkalinity, Total	Bicarbonate	Chloride	Dissolved Oxygen	Fluoride	Nitrate as N	Nitrite as N	Sulfate
	Analytical Method[1]	E310.1	E310.1	E300.0	Field	E300.0	E300.0	E300.0	E300.0
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cleanup Levels [4]		--	--	**250,000**	--	--	--	--	--
BB3GW100	12/14/04	330	330	260	2.2	< 0.1	7.3	< 0.05	56
BB3GW101	12/13/04	NA	NA	NA	NM	NA	NA	NA	NA
BB3PZ100A [2]	05/25/04	300	300	210	0.3	< 0.1	8.1	< 0.05	71
	03/18/04	430	430	230	0.2	0.18	6.7	0.18	85
	02/10/04	380	380	200	3.3	0.37	6	0.42 J-	64
BB3PZ100B [2]	05/25/04	320	320	180	0.3	< 0.1	15	< 0.05	46
	03/18/04	150	150	200	0.7	< 0.1	18	< 0.05	49
	02/10/04	180	180	200	1.16	< 0.1	15	< 0.05 UJ	47
DUP021004	02/10/04	180	180	200	--	< 0.1	15	< 0.05	47
BB3PZ101 [3]	12/16/04	490	490	120	5.8	< 0.1	17	< 0.05	89
BB3SW100	12/17/04	NA	NA	NA	NM	NA	NA	NA	NA
BB3SW101	12/17/04	NA	NA	NA	8	NA	NA	NA	NA
BB3SW102	12/17/04	370	370	130	6.7	< 0.1	25	< 0.05	77

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Piezometer was abandoned prior to the remedial action following Second Quarter 2004 in preparation for the remedial action.
3 - BB3PZ101 was formerly named BB3SW103.
4 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2004a).
mg/L - milligrams per liter
NA - not analyzed
NM - not measured
J- : The analyte was positively identified; the associated numerical value is biased low due to a low surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
UJ : The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 22
Results of OCP and VOC Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	All OCPs	VOCs			
			Bromo-dichloro-methane	Bromoform	Dibromo-chloro-methane	All Other VOCs
	Analytical Method[1]	SW8081A	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M	SW8260B/ SW8260M
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**--**	**80**	**--**	**0.4**	**--**
BB3PZ100A [2]	05/25/04	ND	< 0.5	< 1	< 0.5	ND
	03/18/04	ND	0.7	0.6 J	1.1	ND
BB3PZ100B [2]	05/25/04	ND	< 0.5	< 1	< 0.5	ND
	03/18/04	ND	< 0.5	< 1	< 0.5	ND
BB3SP100	05/01/00	ND	< 0.5 U	< 0.5 U	< 0.5 U	ND

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Piezometer was abandoned prior to the remedial action following Second Quarter 2004 in preparation for the remedial action.
3 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2004a).
OCPs - organochlorine pesticides
VOCs - volatile organic compounds
µg/L - micrograms per liter
ND - not detected
U : The analyte was analyzed for, but was not detected above, the reported sample quantitation limit

Table 23
Results of TPH Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	TPH as Gasoline (Carbon Range C_7-C_{12})	TPH as Diesel (Carbon Range C_{12}-C_{24})	TPH as Fuel Oil (Carbon Range C_{24}-C_{36})
	Analytical Method[1]	SW8015B/ SW8015M	SW8015B/ SW8015M	SW8015B/ SW8015M
		(µg/L)	(µg/L)	(µg/L)
Cleanup Levels [3]		**443**	**880**	**1,200**
BB3GW100	12/14/04	< 50	< 50	< 300
BB3PZ101 [2]	12/16/04	< 50	< 50	< 300
BB3SW101	12/17/04	< 50	NA	NA
BB3SW102	12/17/04	< 50	< 50	< 300

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - BB3PZ101 was formerly named BB3SW103.
3 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2004a).
µg/L - micrograms per liter
TPH - total petroleum hydrocarbons
NA - not analyzed

Table 24
Results of Total and Dissolved Metals Analyses
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Total Dissolved Solids
	Analytical Method[1]	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6020	SW7470	SW6010	SW6010/ SW6020	SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	SW6010/ SW6020	E160.1
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
Cleanup Levels [2]		**--**	**6**	**10**	**1,000**	**4**	**1.1**	**--**	**50**	**--**	**11.8**	**--**	**--**	**--**	**--**	**--**	**--**	**100**	**--**	**5**	**4.1**	**--**	**2**	**--**	**106**	**--**
BB3GW100	12/14/04	< 100	< 1	< 5	68	< 2	< 1	32,000 J	14	< 10	< 1	< 100	< 3	98,000	< 10	NA	NA	22	1,400	< 5	< 1	130,000	< 1	< 10	< 20	2,280
BB3PZ100A [3]	05/25/04	< 100	< 1	< 5	98	< 2	< 1	32,000	< 10	< 10	1.5	100	< 3	130,000	210	NA	NA	21	1,400	< 5	< 1	120,000	< 1	< 10	< 20	890
	03/18/04	< 100	< 1	< 5	110	< 2	< 1	36,000	< 10	< 10	1.5	< 100	< 3	130,000	32	NA	NA	20	1,800	< 5	< 1 UJ	130,000	< 1	< 10	< 20	960 J
	02/10/04	< 100	1.6	< 5	91	< 2	< 1	41,000	< 10	< 10	3	< 100	< 3	110,000	40	NA	NA	< 20	4,300	< 5	< 1	110,000	< 1	< 10	< 20	720 J+
BB3PZ100B [3]	05/25/04	< 100	< 1	< 5	23	< 2	< 1	35,000	17	< 10	1.4	130	< 3	74,000	32	NA	NA	33	1,800	< 5	< 1	86,000	< 1	< 10	< 20	670
	03/18/04	< 100	< 1	< 5	57	< 2	< 1	31,000	19	< 10	< 1	< 100	< 3	73,000	< 10	NA	NA	22	1,100	< 5	< 1 UJ	88,000	< 1	< 10	< 20	680 J
	02/10/04	< 100	2.1	< 5	33	< 2	< 1	35,000	18	< 10	1.7	< 100	< 3	77,000	26	NA	NA	25	3,200	< 5	< 1	83,000	< 1	< 10	< 20	690 J+
DUP021004	02/10/04	< 100	2.2	< 5	45	< 2	< 1	32000	19	< 10	1.3	< 100	< 3	79000	20	NA	NA	24	2400	< 5	< 1	81000	< 1	< 10	< 20	680 J+
BB3PZ101 [4]	12/16/04	< 100	< 1	< 5	74	< 2	< 1	31,000	< 10	< 10	3.3	260	< 3	87,000	49	NA	NA	< 20	1,500	< 5	< 1	92,000	< 1	< 10	< 20	870
(Total) [5]	12/16/04	8,400	< 1	7.5	190	< 2	< 1	32,000	< 100	10	17	17,000	11	98,000	440	NA	NA	59	2,400	< 5	< 1	100,000	< 1	38	41	NA
BB3SP100	05/01/00	NA	< 5 U	< 5 U	140	**< 5 U**	**< 2 U**	NA	< 5 U	< 5 U	< 5 U	NA	< 5 U	NA	NA	< 0.2 U	< 5 U	17	NA	< 5 U	**< 5 U**	NA	**< 5 U**	< 5 U	64	NA
BB3SW102	12/17/04	< 100	< 1	< 5	37	< 2	< 1	24,000	36	< 10	3	< 100	< 3	83,000	18	NA	NA	< 20	1,100	< 5	< 1	59,000	< 1	< 10	35	< 20
(Total) [5]	12/17/04	9,600	< 1	6.3	140	< 2	< 1	23,000	100	24	30	16,000	23	95,000	780	NA	NA	150	1,700	< 5	< 1	61,000	< 1	49	63	NA

Notes
1 - The identified analytical method(s) are for analyses performed beginning in the Second Quarter 2001.
2 - Groundwater cleanup levels were taken from the *Remedial Action Plan for Fill Site 6A and Baker Beach Disturbed Areas 3 and 4, Presidio of San Francisco, California* (Treadwell & Rollo, 2004a).
3 - Piezometer was abandoned prior to the remedial action following Second Quarter 2004 in preparation for the remedial action.
4 - BB3PZ101 was formerly named BB3SW103.
5 - **Bold** numbers indicate concentrations which exceed RAP cleanup criteria. However, RAP cleanup criteria apply only to dissolved metals concentrations.
mg/L - milligrams per liter
µg/L - micrograms per liter
NA - not analyzed
All metal results represent dissolved metals, unless indicated as "total" in the left-hand column, for total metal results.
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ : The analyte was positively identified; the associated numerical value is biased high due to a high surrogate recovery and should be considered an approximate concentration of the analyte in the sample.
U: The analyte was analyzed for, but was not detected above, the reported sample quantitation limit

FIGURES

N

1000 0 1000 Feet

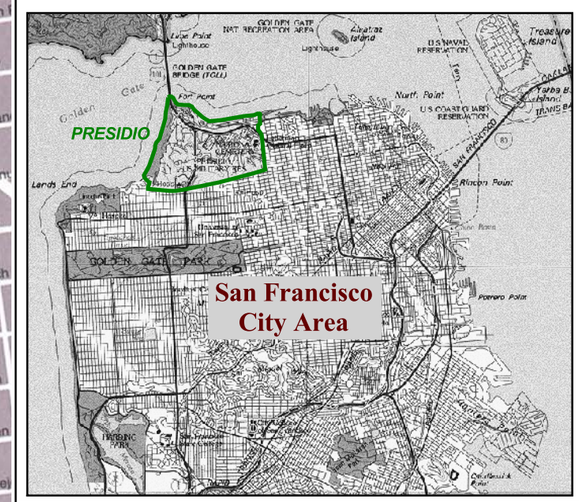
LEGEND

Area A and B Boundary

Approximate Site Boundary

Notes:
Area A Stewardship by the National Park Service.

Area B Stewardship by the Presidio Trust.



SITE LOCATION MAP

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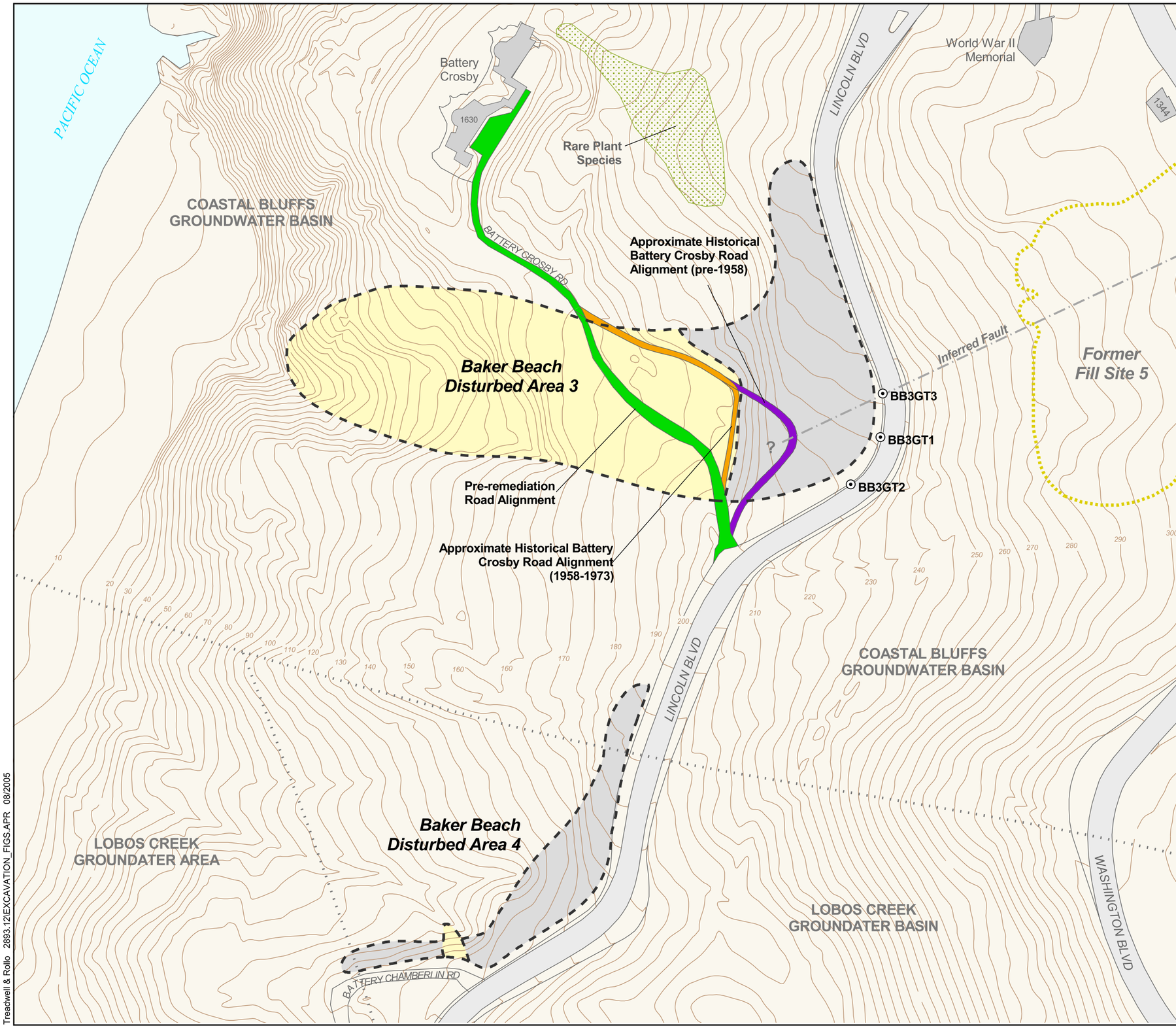
FIGURE 1

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005



N

60 0 60 Feet

LEGEND

- BB3GT1 Temporary Slope Stability Monitoring Point
- Estimated Limits of Fill
- Groundwater Area and Basin Boundaries
- Inferred Fault
- Topographic Contour Pre-Excavation (Contour Interval : 5 ft)
- Generalized Disturbed Area Assumed to Have Chemicals of Concern in Soil (Excavation Area)
- Generalized Disturbed Area Suspected to Have No Chemicals of Concern in Soil
- Rare Plant Species
- 1630 Building and Number

Notes:
Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003) and Estimated Limits of Fill from Remedial Action Plan (Treadwell&Rollo, 2004a).

Former Fill Site 5 was excavated in Spring 2003 and documented in Treadwell & Rollo's Draft Construction Completion Report Landfill 4 and Fill Site 5, November 2004.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) North American Vertical Datum, NAVD88.

BAKER BEACH DISTURBED AREAS 3 AND 4 SITE VICINITY MAP

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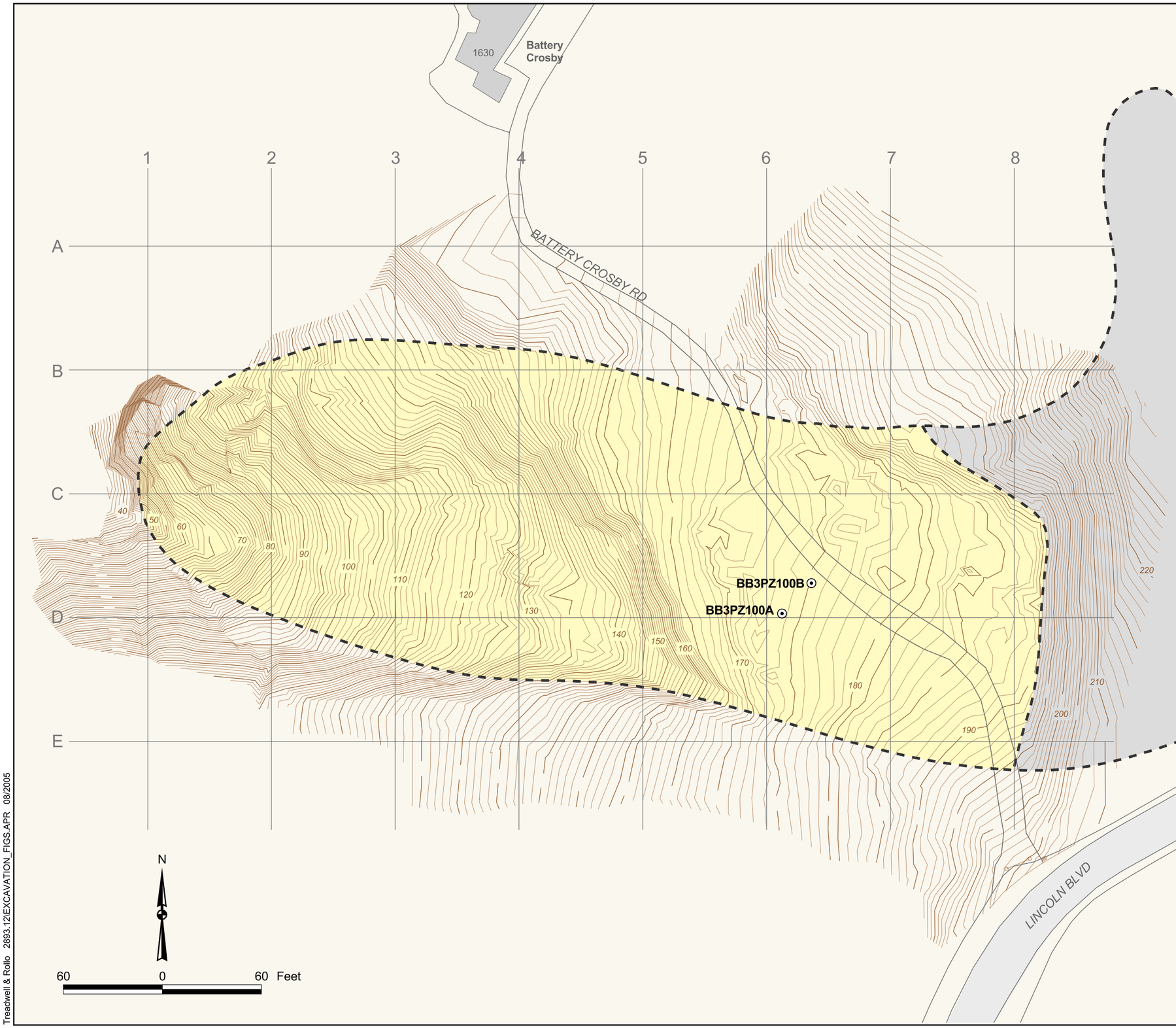
FIGURE 2

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005



LEGEND

- **BB3PZ100A** Temporary Piezometer
- Estimated Limits of Fill
- Topographic Contour Pre-Excavation
  (Contour Interval : 5 ft)
  (Contour Interval : 1 ft)
- Generalized Disturbed Area Assumed to Have Chemicals of Concern in Soil (Excavation Area)
- Generalized Disturbed Area Suspected to Have No Chemicals of Concern in Soil
- 1630 Building and Number
- 5 / B Sampling Grid

Notes:
Estimated Limits of Fill from Remedial Action Plan (Treadwell&Rollo, 2004a).

Pre-excavation topography surveyed by R.W. Davis & Associates on June 21, 2004.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) National Geodetic Vertical Datum, NGVD 29.

BAKER BEACH DISTURBED AREA 3 PRE-EXCAVATION TOPOGRAPHY AND SAMPLING GRID

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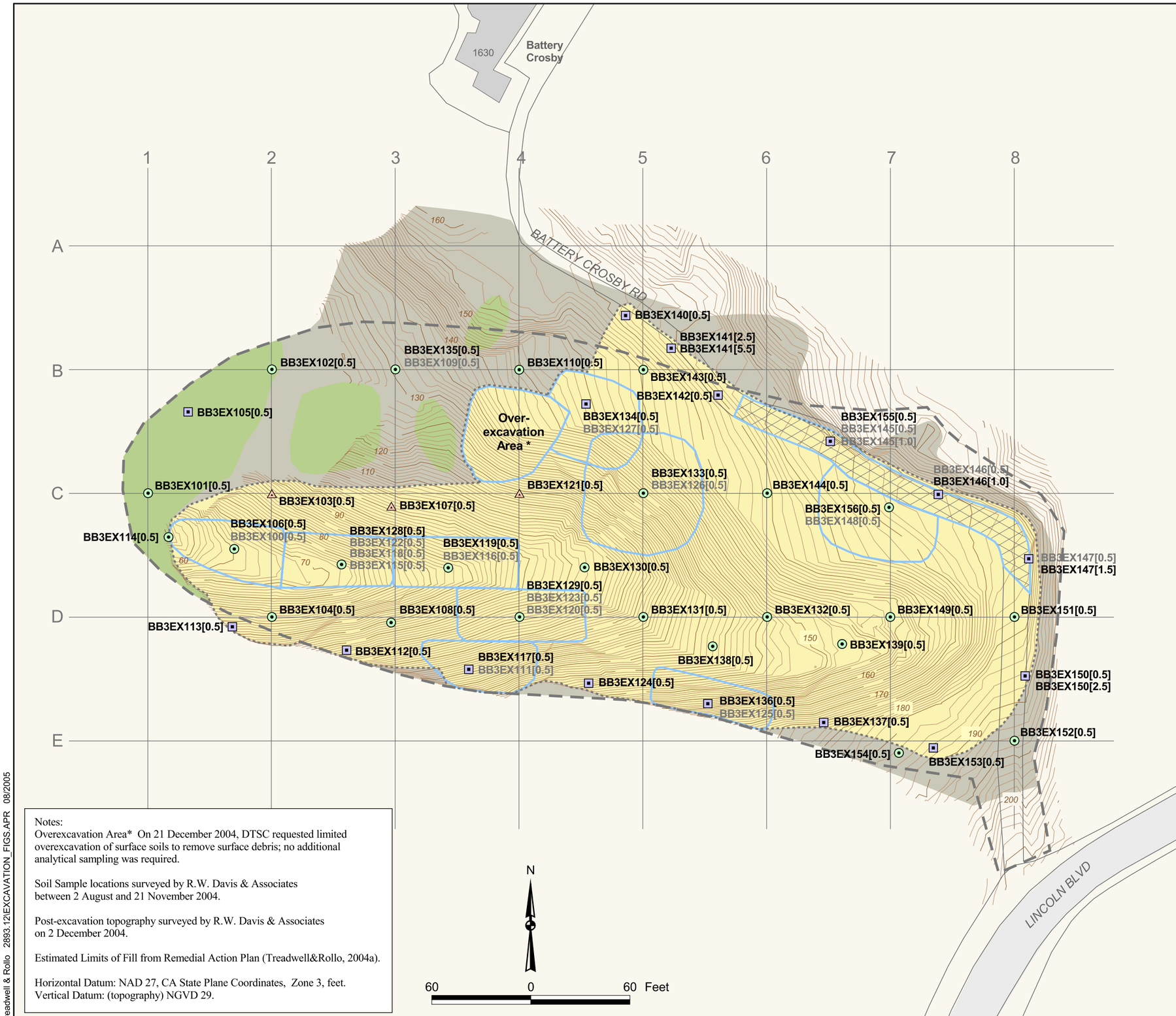
FIGURE 3

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005



Notes:
Overexcavation Area* On 21 December 2004, DTSC requested limited overexcavation of surface soils to remove surface debris; no additional analytical sampling was required.

Soil Sample locations surveyed by R.W. Davis & Associates between 2 August and 21 November 2004.

Post-excavation topography surveyed by R.W. Davis & Associates on 2 December 2004.

Estimated Limits of Fill from Remedial Action Plan (Treadwell&Rollo, 2004a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) NGVD 29.

LEGEND

- BB3EX105[0.5] Confirmation soil sample, perimeter location
- BB3EX106[0.5] Confirmation soil sample, grid/bottom location
- BB3EX103[0.5] Confirmation soil sample, combined perimeter and grid/bottom location
- BB3EX100[0.5] Sample location removed during overexcavation
- Limits of Excavation
- Estimated Limits of Fill
- Topographic Contour Post-Excavation (Contour Interval : 5 ft) (Contour Interval : 1 ft)
- Section of removed Historical Battery Crosby Road
- Approximate Areas of Overexcavation
- Limits of Excavated Fill
- Approximate limits of remaining native vegetation; delineated in field by NPS representative.
- Approximate limits of stripped vegetation
- 1630 Building and Number
- 5 B Sampling Grid

BAKER BEACH DISTURBED AREA 3 POST-EXCAVATION TOPOGRAPHY AND CONFIRMATION SAMPLING LOCATIONS

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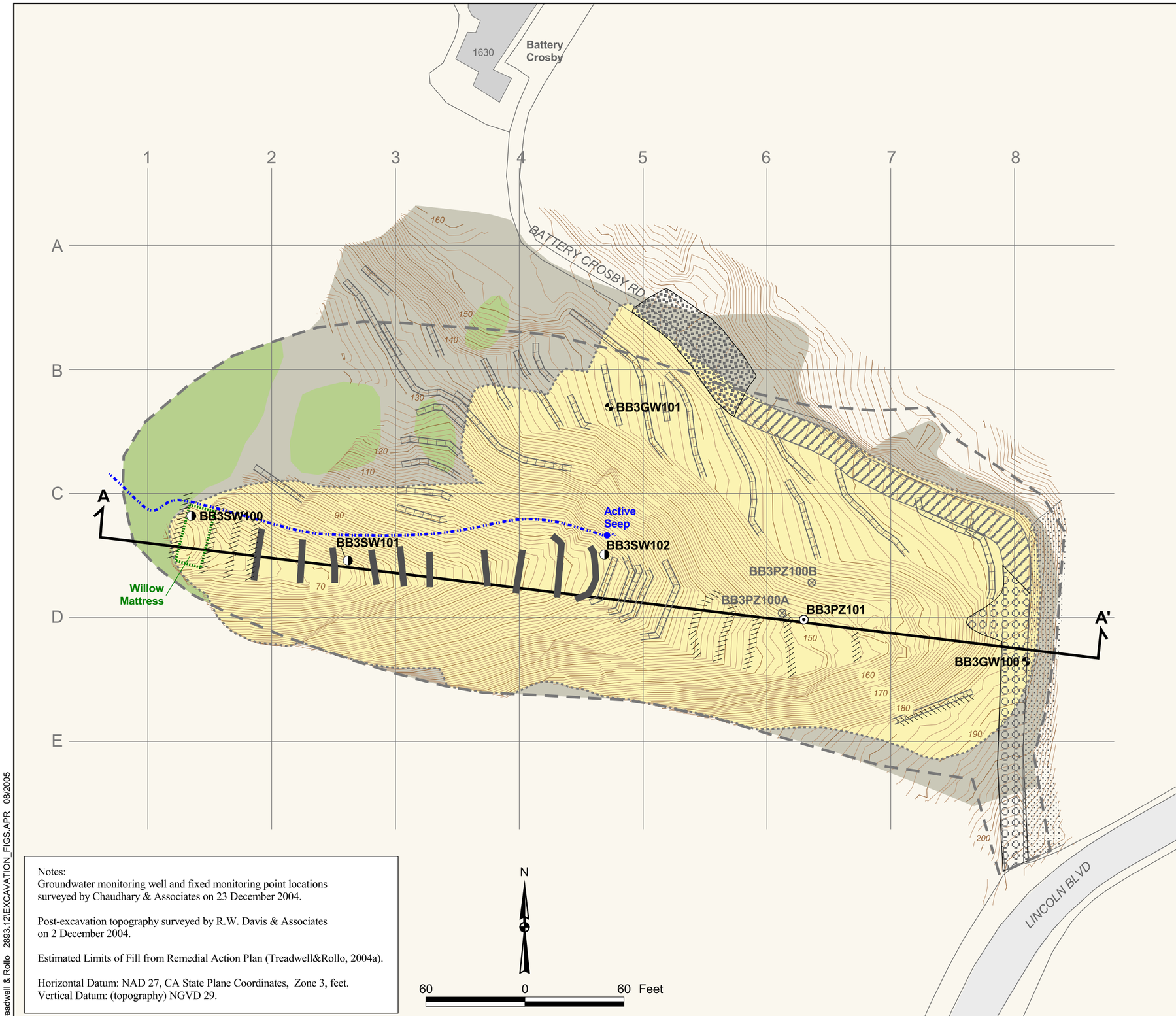
FIGURE 4

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005



Notes:
Groundwater monitoring well and fixed monitoring point locations surveyed by Chaudhary & Associates on 23 December 2004.

Post-excavation topography surveyed by R.W. Davis & Associates on 2 December 2004.

Estimated Limits of Fill from Remedial Action Plan (Treadwell&Rollo, 2004a).

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) NGVD 29.

LEGEND

- BB3GW100 Groundwater monitoring well
- BB3PZ101 Piezometer
- BB3SW100 Fixed surface water monitoring point
- BB3PZ100A Abandoned Temporary Piezometer
- Limits of Excavation (approximate)
- Estimated Limits of Fill
- Straw Wattle
- Silt Fence
- Temporary 4" Diameter PVC Drain Pipe
- Sand Bag Check Dam
- Topographic Contour Post-Excavation (Contour Interval : 5 ft) (Contour Interval : 1 ft)
- Section of removed Historical Battery Crosby Road
- Fill Sand
- Pre-1958 Road Fill
- 1958-1973 Road Fill
- Limits of Excavated Fill
- Approximate limits of remaining native vegetation; delineated in field by NPS representative.
- Approximate limits of stripped vegetation
- 1630 Building and Number
- 5 B Sampling Grid
- A A' Location of Cross Section A- A'

BAKER BEACH DISTURBED AREA 3 POST-CONSTRUCTION TOPOGRAPHY AND GROUNDWATER AND SURFACE WATER MONITORING NETWORK

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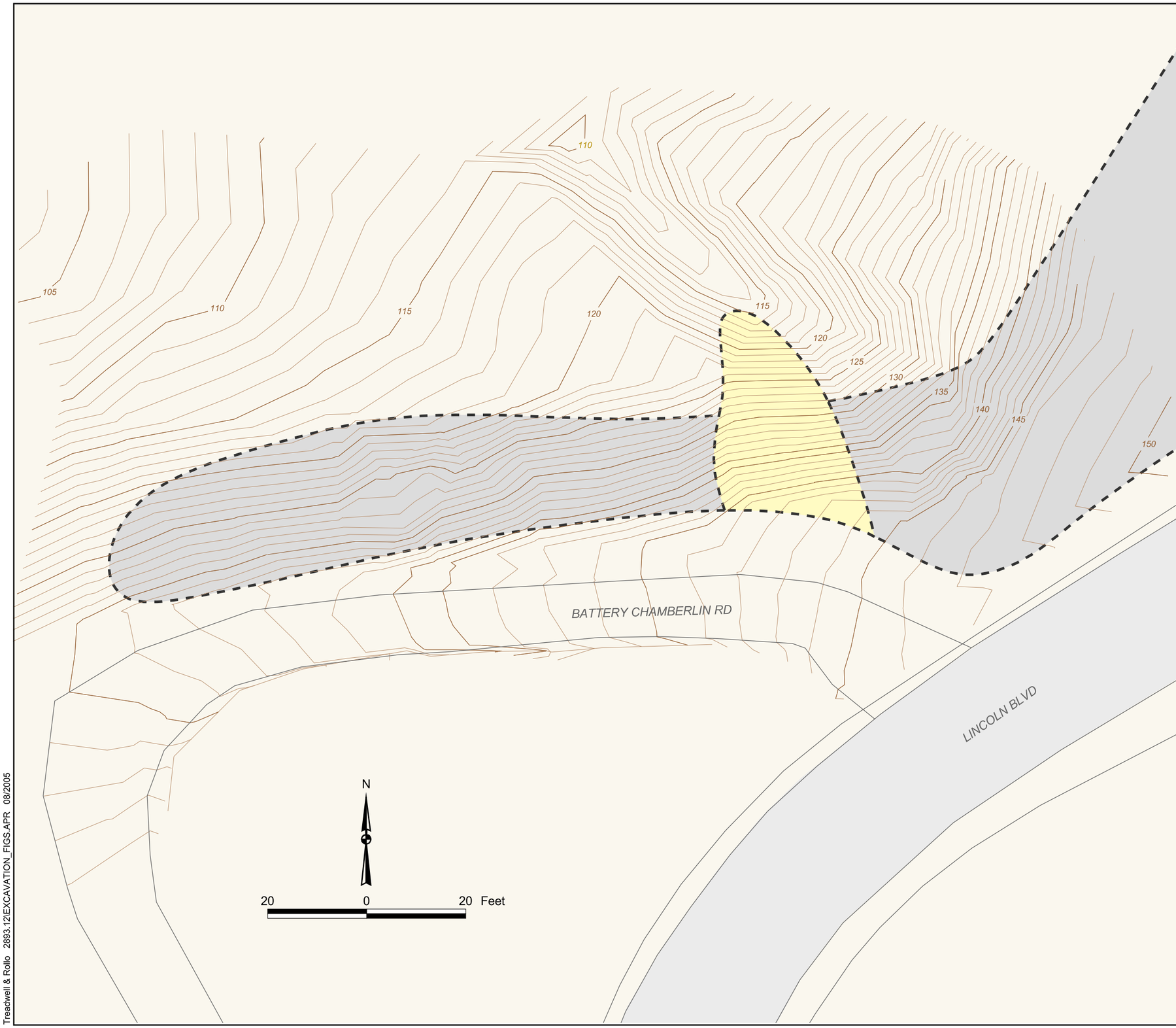
FIGURE 5

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005



LEGEND

- Estimated Limits of Fill
- Topographic Contour Pre-Excavation
  - (Contour Interval : 5 ft)
  - (Contour Interval : 1 ft)
- Generalized Disturbed Area Assumed to Have Chemicals of Concern in Soil (Excavation Area)
- Generalized Disturbed Area Suspected to Have No Chemicals of Concern in Soil

Notes:
Pre-excavation topography surveyed by R.W. Davis & Associates on 21 June 2004.

Estimated Limits of Fill from Remedial Action Plan (Treadwell&Rollo, 2004a).

Base map was provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) National Geodetic Vertical Datum, NGVD 29.

BAKER BEACH DISTURBED AREA 4
PRE-EXCAVATION TOPOGRAPHY

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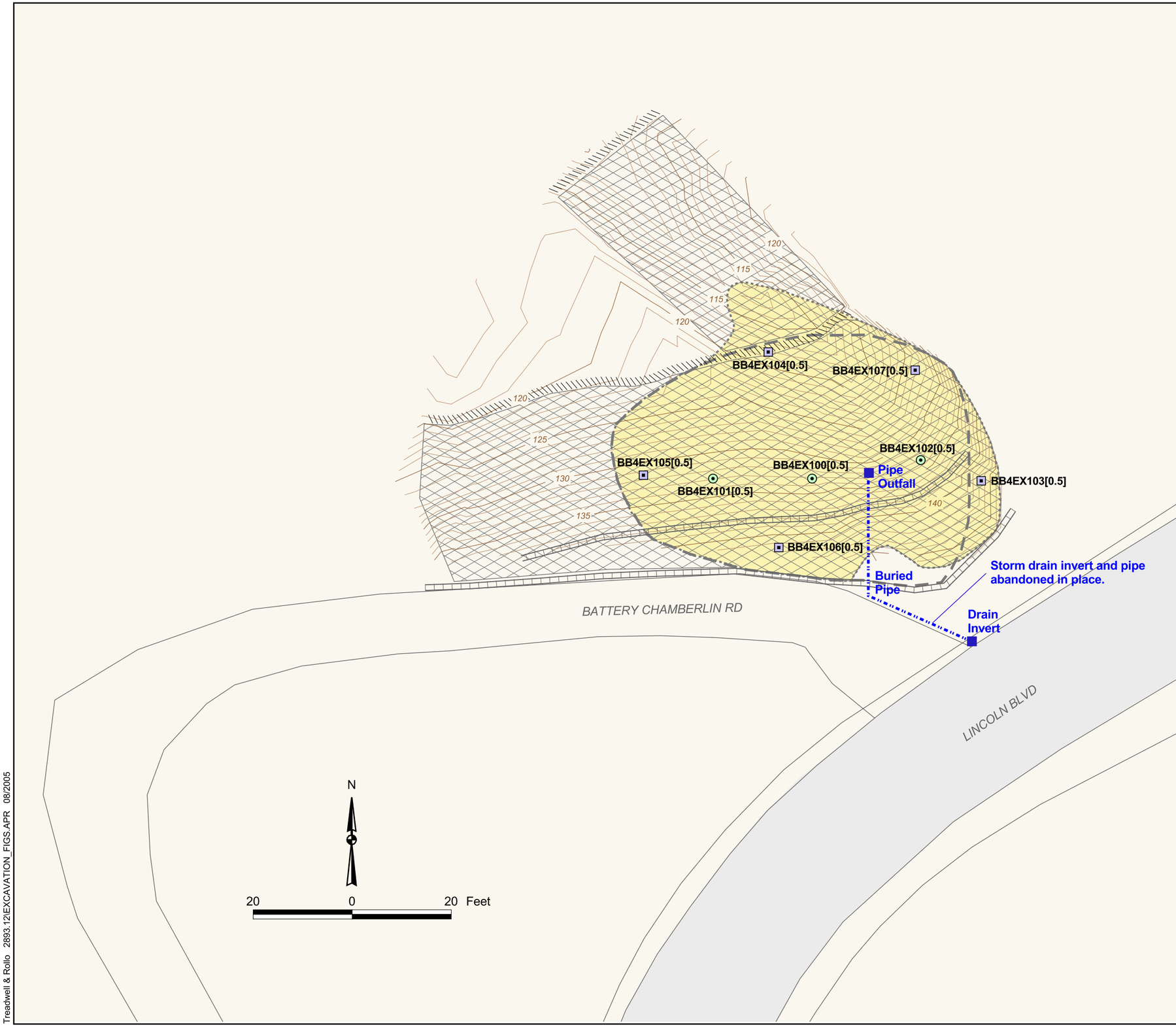
FIGURE 6

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005



LEGEND

- BB4EX104[0.5] Confirmation soil sample, perimeter location
- BB4EX102[0.5] Confirmation soil sample, grid/bottom location
- Limits of Excavation
- Pre-Construction Estimated Limits of Work Area (Construction Plans)
- Straw Wattle
- Silt Fence
- Topographic Contour Post-Excavation (Contour Interval : 5 ft) (Contour Interval : 1 ft)
- Limits of Excavated Fill
- Erosion Control Mat

Notes:
Soil Sample locations surveyed by R.W. Davis & Associates on 5 November 2004.

Post-excavation topography surveyed by R.W. Davis & Associates on 21 October 2004.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) National Geodetic Vertical Datum, NGVD 29.

BAKER BEACH DISTURBED AREA 4
FINAL TOPOGRAPHY AND CONFIRMATION SAMPLING LOCATIONS

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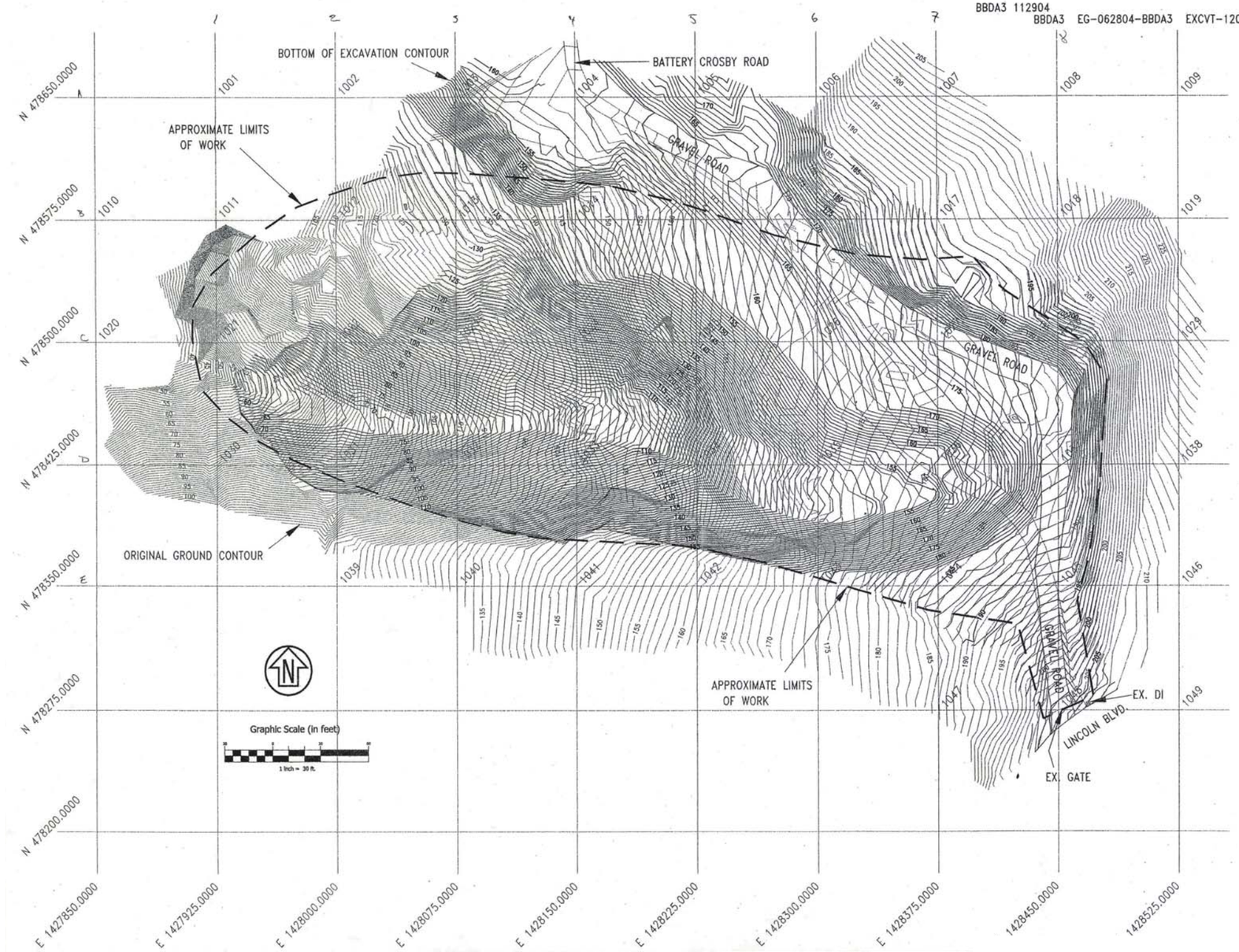
FIGURE 7

SITE VOLUME ESTIMATES TABLE

Site	Stratum	Surf1	Surf2	Cut yards	Fill yards	Net yards	Method
BBDA3 112904	BBDA3	EG-062804-BBDA3	EXCVT-120204-BBDA3	37493	00	37493 (C)	Grid



GRID POINTS
BBDA 3

NUMBER	NORTHING	EASTING	OG ELEVATION
1001	478650.0000	1427925.0000	X
1002	478650.0000	1428000.0000	X
1003	478650.0000	1428075.0000	148.6
1004	478650.0000	1428150.0000	157.7
1005	478650.0000	1428225.0000	X
1006	478650.0000	1428300.0000	X
1007	478650.0000	1428375.0000	202.0
1008	478650.0000	1428450.0000	X
1009	478650.0000	1428525.0000	X
1010	478575.0000	1427850.0000	X
1011	478575.0000	1427925.0000	X
1012	478575.0000	1428000.0000	110.4
1013	478575.0000	1428075.0000	131.3
1014	478575.0000	1428150.0000	146.4
1015	478575.0000	1428225.0000	163.6
1016	478575.0000	1428300.0000	172.6
1017	478575.0000	1428375.0000	192.9
1018	478575.0000	1428450.0000	203.7
1019	478575.0000	1428525.0000	X
1020	478500.0000	1427850.0000	X
1021	478500.0000	1427925.0000	56.0
1022	478500.0000	1428000.0000	88.6
1023	478500.0000	1428075.0000	107.65
1024	478500.0000	1428150.0000	127.3
1025	478500.0000	1428225.0000	162.7
1026	478500.0000	1428300.0000	171.4
1027	478500.0000	1428375.0000	179.4
1028	478500.0000	1428450.0000	193.3
1029	478500.0000	1428525.0000	224.2
1030	478425.0000	1427925.0000	84.6
1031	478425.0000	1428000.0000	89.4
1032	478425.0000	1428075.0000	109.9
1033	478425.0000	1428150.0000	127.7
1034	478425.0000	1428225.0000	146.1
1035	478425.0000	1428300.0000	173.0
1036	478425.0000	1428375.0000	180.2
1037	478425.0000	1428450.0000	187.0
1038	478425.0000	1428525.0000	216.3
1039	478350.0000	1428000.0000	X
1040	478350.0000	1428075.0000	132.1
1041	478350.0000	1428150.0000	147.1
1042	478350.0000	1428225.0000	160.6
1043	478350.0000	1428300.0000	174.3
1044	478350.0000	1428375.0000	186.3
1045	478350.0000	1428450.0000	193.3
1046	478350.0000	1428525.0000	X
1047	478275.0000	1428375.0000	186.8
1048	478275.0000	1428450.0000	204.5
1049	478275.0000	1428525.0000	X

NUMBER	DATE	DESCRIPTION	BY
8			
7			
6			
5			
4			
3			
2			
1			

REVISION BLK.

DRAWN BY:	TWP
DESIGNED BY:	RWD
CHECKED BY:	RWD
SCALE:	1" =30'
DATE:	12/02/04

R.W. DAVIS & ASSOCIATES
LAND SURVEYORS
790 DeLong Ave. Suite 2
Novato CA 94945
L.S. 6330
Tel. (415) 898-9099
Fax (415) 898-2499
Email:
RWD@CSWST2.COM

BAKER BEACH DISTURBED AREA 3
POST-CONSTRUCTION TOPOGRAPHY AND VOLUME SURVEY

THE PRESIDIO TRUST

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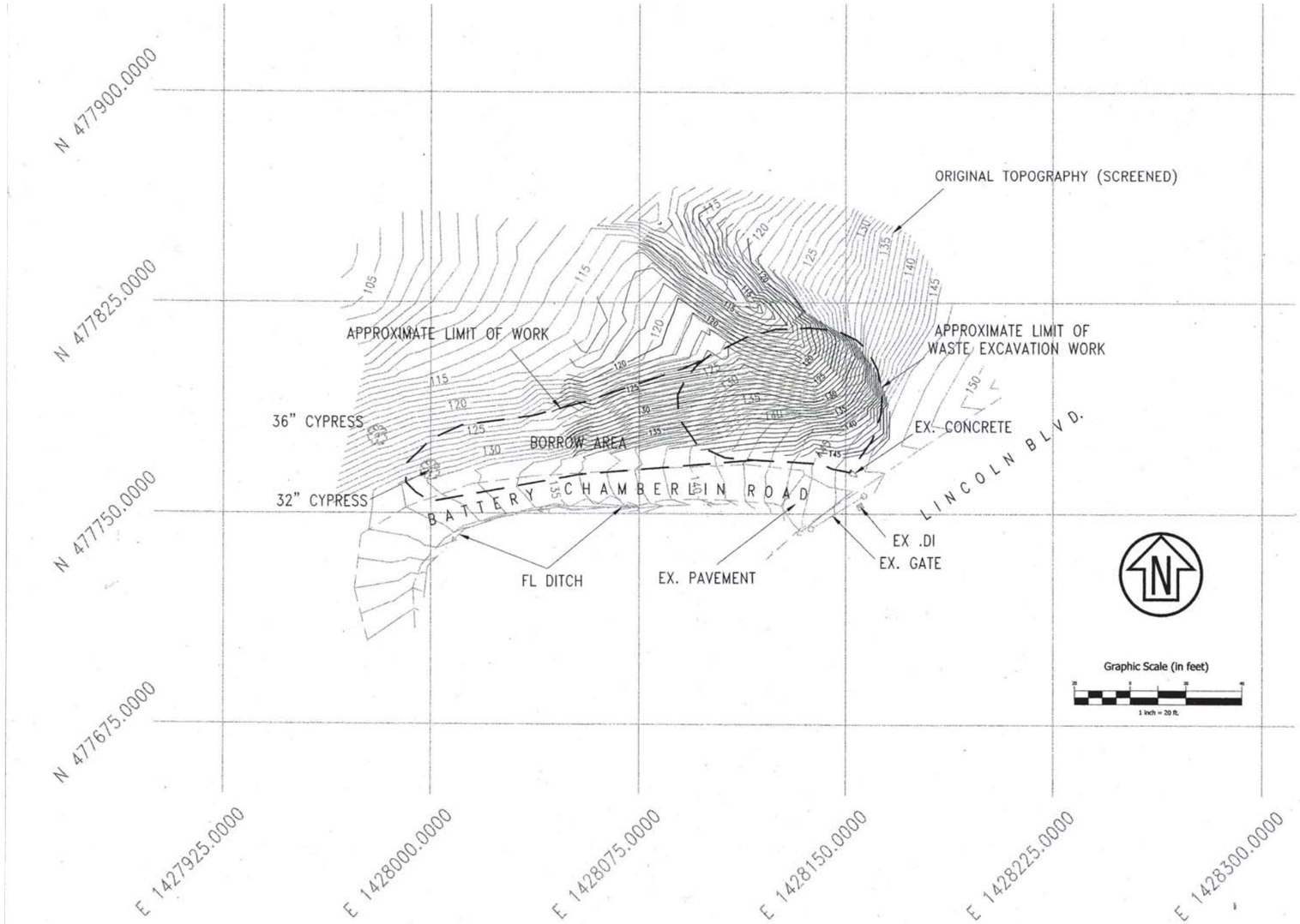
fax 561-5315

August 2005

FIGURE 8



GRID POINTS
BBDA 4

NUMBER	NORTHING	EASTING	EG ELEVATION
1050	477900.0000	1428000.0000	X
1051	477900.0000	1428075.0000	X
1052	477900.0000	1428150.0000	X
1053	477900.0000	1428225.0000	X
1054	477825.0000	1427925.0000	X
1055	477825.0000	1428000.0000	108.9
1056	477825.0000	1428075.0000	119.1
1057	477825.0000	1428150.0000	131.7
1058	477825.0000	1428225.0000	X
1059	477750.0000	1427925.0000	X
1060	477750.0000	1428000.0000	131.3
1061	477750.0000	1428075.0000	138.0
1062	477750.0000	1428150.0000	146.3
1063	477750.0000	1428225.0000	X
1064	477675.0000	1428000.0000	X
1065	477675.0000	1428075.0000	X
1066	477675.0000	1428150.0000	X

SITE VOLUME ESTIMATES TABLE

SITE	STRATUM	SURF1	SURF2	CUT YARDS	FILL YARDS	NET YARDS
BBDA-4	102104					
	BBDA4	EG-070204-BBDA4	EXCVT-102104-BBDA4			
				452	00	452 (C)

NUMBER	DATE	DESCRIPTION	BY
8			
7			
6			
5			
4			
3			
2			
1			

REVISION BLK

DRAWN BY:	TWP
DESIGNED BY:	RWD
CHECKED BY:	RWD
SCALE:	1"=20'
DATE:	10/21/04

R.W. DAVIS & ASSOCIATES
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BAKER BEACH DISTURBED AREA 4
POST-CONSTRUCTION TOPOGRAPHY AND VOLUME SURVEY

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FIGURE 9

BAKER BEACH DISTURBED AREA 3
HISTORICAL BATTERY
CROSBY ROAD INVESTIGATION

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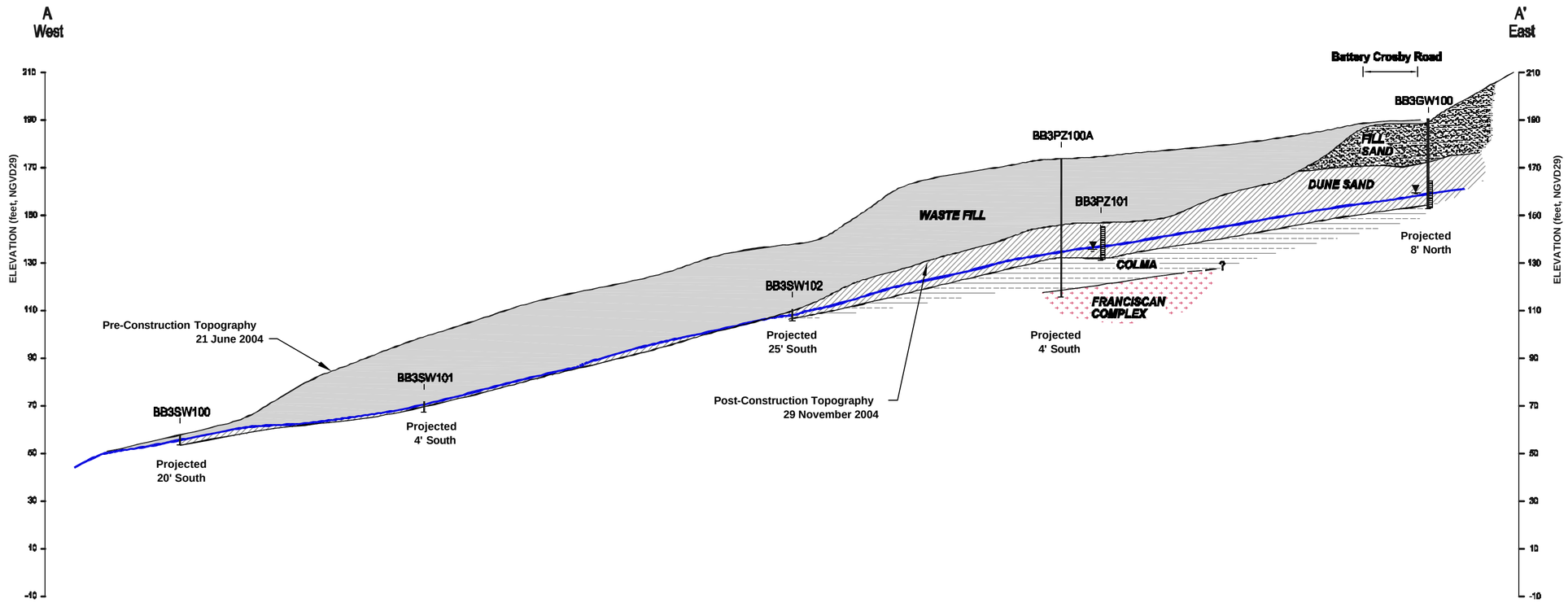
FIGURE 10

Source: Benjamin Jones, Presidio Trust GIS Department, 10 November 2004.



LEGEND

- Artificial fill (Removed)
- Fill Sand
- Dune Sand
- Colma Formation (Silty Sand - Clayey Sand)
- Franciscan Complex (Shale & Serpentine)
- Former Surface Topography
- Current Surface Topography
- Groundwater Surface, 13 December 2004
- Screen Interval

Notes:
1. All elevations are in National Geodetic Vertical Datum of 1929, NGVD 29.
2. Former surface topography taken from site surveys performed on 21 June 2004 by RW Davis Land Surveyors.
3. Current surface topography taken from site survey performed on 29 November 2004 by RW Davis Land Surveyors.
4. The above profile represents a generalized geologic cross section from widely spaced borings. Geologic units may vary between points of exploration.
5. Figure 5 shows location of cross section.

40 Feet
0
0
40 Feet
Approximate Scale

BAKER BEACH DISTURBED AREA 3 GENERALIZED GEOLOGIC CROSS SECTION A-A'

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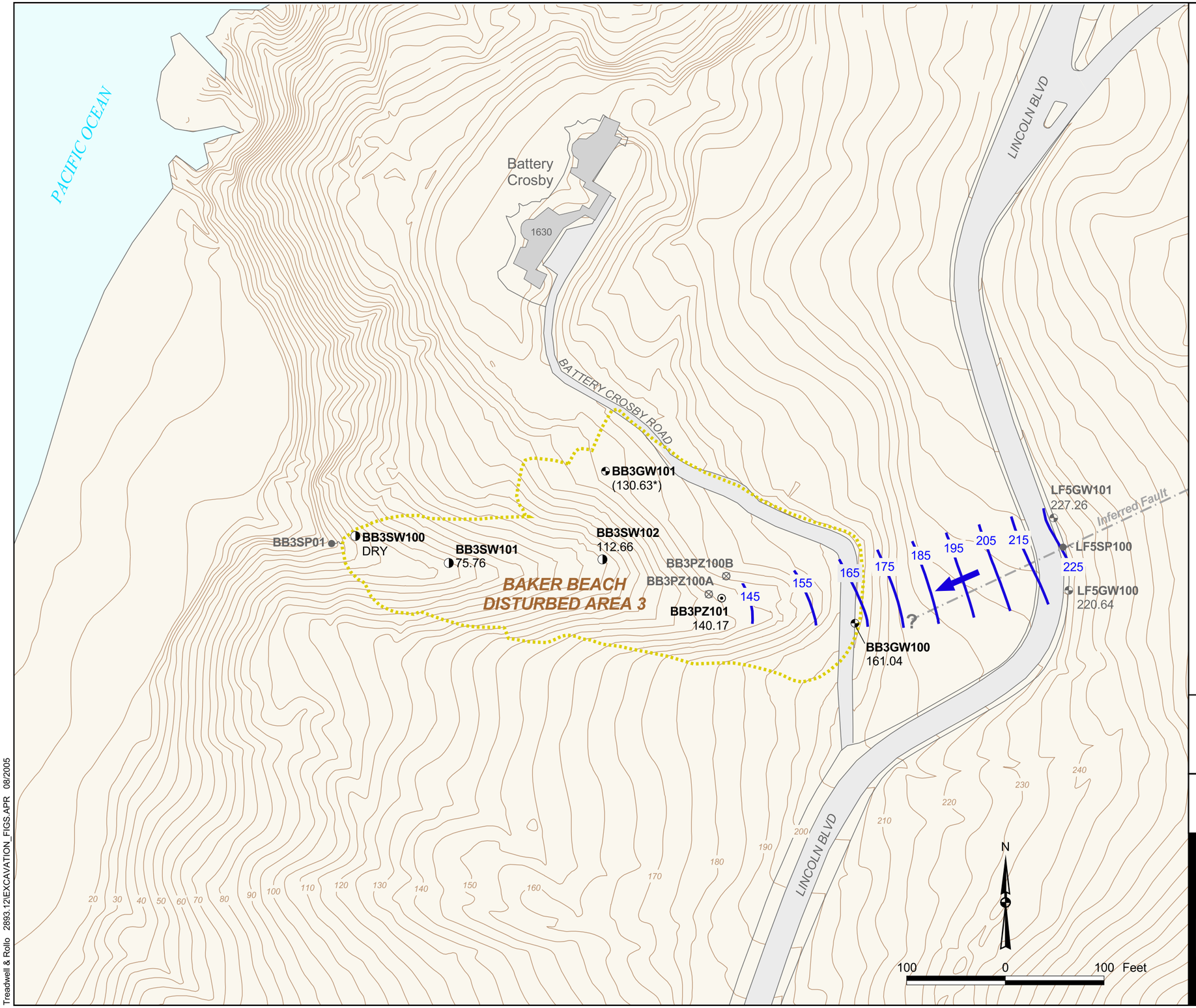
FIGURE 11

2893.12/SECTION.DWG



LEGEND

BB3GW100 161.04	Groundwater Monitoring Well December 2004 Groundwater Elevation
BB3PZ101 140.17	Piezometer December 2004 Groundwater Elevation
BB3SW100	Fixed Water Monitoring Point
BB3PZ100A	Abandoned Temporary Piezometer
LF5GW100 220.64	Adjacent Study Area Well December 2004 Groundwater Elevation
LF5SW100	Approximate Surface Water Sample Location
(130.63*)	Value Indicates Bottom of Casing Elevation in PLLW.
	Approximate Direction of Groundwater Flow
	Groundwater Elevation Contour (Contour Interval : 10 ft)
	Limits of Excavated Fill
	Inferred Fault
	Topographic Contour (Contour Interval : 5 ft)
1630	Building and Number

Notes:
Groundwater elevation data collected 13 December 2004.

The Fixed Water Monitoring Points were not used in groundwater contouring.

Location of inferred fault from Revised Feasibility Study Main Installation Sites (EKI, 2003).

Base map provided by the Presidio Trust in June 2003.

Post-excavation topography within limits of excavation fill surveyed by R.W. Davis & Associates on 2 December 2004.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet

Vertical Datums: (groundwater) Presidio Lower Low Water (ft. PLLW) (topography) North American Vertical Datum, NAVD88. Vertical difference between datums is NAVD88 0.37 ft lower than PLLW.

BAKER BEACH DISTURBED AREA 3 SITE PLAN AND 13 DECEMBER 2004 GROUNDWATER ELEVATION MAP

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FIGURE 12

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005

PHOTOGRAPHS

Photo 1: Caterpillar 330 Excavator

Photo 2: Caterpillar Long Reach Excavator

Photo 3: Caterpillar Articulated Truck

Photo 4: Bowley Road Truck Staging Area

Photo 5: Traffic Control on Lincoln Boulevard

Photo 6: Trucks Exiting BBDA 3 onto Lincoln Boulevard

Photo 7: Truck Decontamination Knock-off Plates

Photo 8: Dust Control Operations at BBDA 3

Photo 9: Temporary Construction Erosion Controls at BBDA 3

Photo 10: Lincoln Boulevard Following Daily Cleanup

Photo 11: BBDA 3 Tree Cutting Prior to Excavation

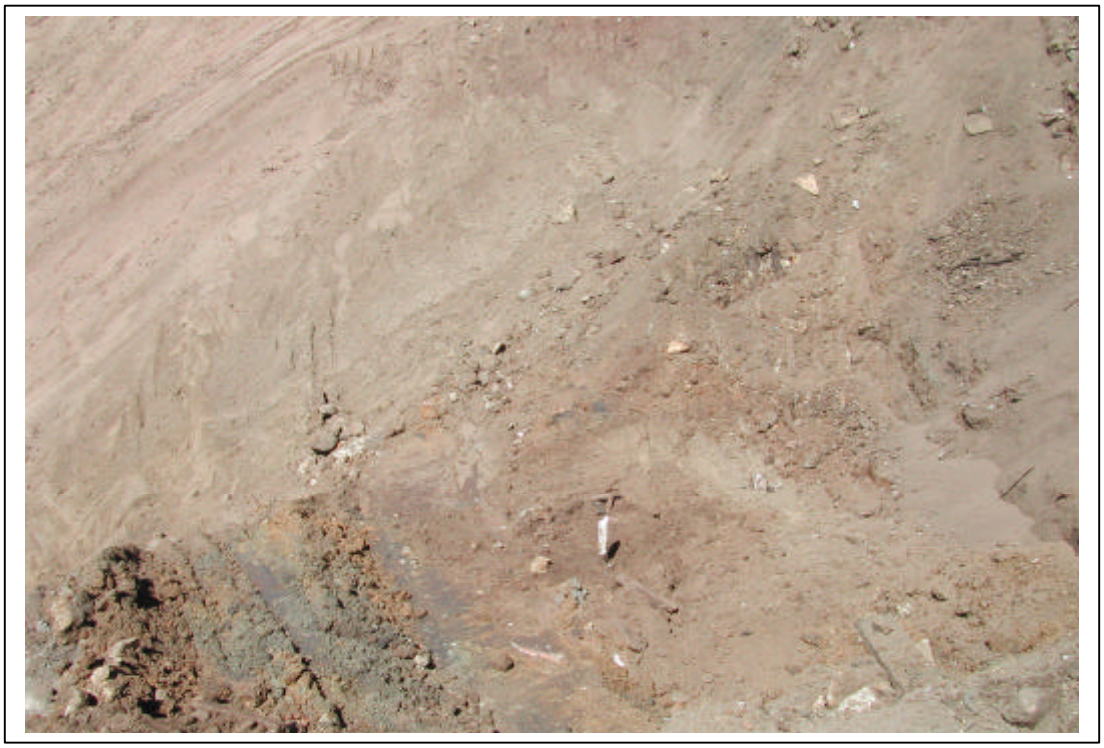

Photo 12: Location of Temporary Piezometer BB3PZ100A

Photo 13: Slope Stability Surveyors on Lincoln Boulevard

Photo 14: Tree Stumps and Green Waste Removal Prior to BBDA 3 Excavation

Photo 15: BBDA 3 Excavation

Photograph 16: BBDA 3 Demolition Debris Fill

Photo 17: Breaking Concrete During Excavation Activities

Photo 18: Typical Tires Recovered from Excavation

Photo 19: Historical Battery Crosby Road Exploration Trenches

Photo 20: Battery Crosby Road Retaining Wall Structure

Photo 21: Soil Sampling Following Excavation Activities

Photo 22: Overexcavation at BBDA 3

Photo 23: BBDA 3 Ravine Following Excavation

Photo 24: Final Erosion Control Sand Bag Check Dams

Photo 25: Seep Diversion Pipe

Photo 26: Diversion Pipe Outfall

Photo 27: Willow Mattress Installation

Photo 28: BBDA 4 Excavation

Photo 29: BBDA 4 Fill Stockpile at BBDA 3

Photo 30: BBDA 4 Fill

Photo 31: BBDA 4 Erosion Control Set up

Photo 32: Installation of Monitoring Well BB3GW100

Photo 33: BBDA 3 Fixed Water Monitoring Point BB3SW100

APPENDIX A
Laboratory Reports for Soil Confirmation Samples and Groundwater and Surface Water Samples

Table A-1
Sample Delivery Group Index
Confirmation Soil Sampling Program Analytical Data
Baker Beach Disturbed Areas 3 & 4
Presidio of San Francisco, California

Sample Number	Sample Date	SDG Number
Baker Beach Disturbed Area 3 Confirmation Samples		
BB3EX100[0.5]	7/30/2004	173741
BB3EX101[0.5]	8/2/2004	173773
BB3EX102[0.5]	8/2/2004	173773
BB3EX103[0.5]	8/2/2004	173773
BB3EX104[0.5]	8/2/2004	173773
BB3EX105[0.5]	8/2/2004	173773
BB3EX106[0.5]	8/4/2004	173825
BB3EX107[0.5]	8/5/2004	173859
BB3EX108[0.5]	8/5/2004	173857
BB3EX108[0.5]- DUP080504A	8/5/2004	173857
BB3EX109[0.5]	8/6/2004	173875
BB3EX110[0.5]	8/6/2004	173875
BB3EX111[0.5]	8/18/2004	174073
BB3EX112[0.5]	8/18/2004	174073
BB3EX113[0.5]	8/18/2004	174073
BB3EX114[0.5]	8/18/2004	174073
BB3EX115[0.5]	8/18/2004	174073
BB3EX116[0.5]	8/18/2004	174074
BB3EX117[0.5]	8/30/2004	174320
BB3EX118[0.5]	8/30/2004	174320
BB3EX119[0.5]	8/30/2004	174830 / 174320
BB3EX120[0.5]	8/30/2004	174320
BB3EX120[0.5]- DUP083004A	8/30/2004	174320
BB3EX121[0.5]	8/30/2004	174320
BB3EX122[0.5]	9/14/2004	174631
BB3EX123[0.5]	9/14/2004	174631
BB3EX124[0.5]	9/14/2004	174631
BB3EX125[0.5]	9/14/2004	174631
BB3EX126[0.5]	9/14/2004	174631
BB3EX127[0.5]	9/14/2004	174631
BB3EX128[0.5]	10/1/2004	175037
BB3EX129[0.5]	10/1/2004	175037
BB3EX130[0.5]	10/1/2004	175037
BB3EX131[0.5]	10/1/2004	175037
BB3EX131[0.5]- DUP100104A	10/1/2004	175037
BB3EX132[0.5]	10/1/2004	175037
BB3EX133[0.5]	10/1/2004	175037
BB3EX134[0.5]	10/1/2004	175037
BB3EX135[0.5]	10/1/2004	175037
BB3EX136[0.5]	10/1/2004	175037
BB3EX137[0.5]	11/5/2004	175836
BB3EX138[0.5]	11/5/2004	175836
BB3EX139[0.5]	11/5/2004	175836 / 175838
BB3EX140[0.5]	11/5/2004	175836
BB3EX141[2.5]	11/5/2004	175836
BB3EX141[5.5]	11/5/2004	175836
BB3EX142[0.5]	11/5/2004	175836
BB3EX143[0.5]	11/5/2004	175836
BB3EX143[0.5]- DUP110504A	11/5/2004	175836
BB3EX144[0.5]	11/5/2004	175836
BB3EX145[0.5]	11/22/2004	176210
BB3EX145[1.0]	11/22/2004	176210
BB3EX146[0.5]	11/22/2004	176210

Table A-1
Sample Delivery Group Index
Confirmation Soil Sampling Program Analytical Data
Baker Beach Disturbed Areas 3 & 4
Presidio of San Francisco, California

Sample Number	Sample Date	SDG Number
BB3EX146[1.0]	11/22/2004	176210
BB3EX147[0.5]	11/22/2004	176210
BB3EX147[1.5]	11/22/2004	176210
BB3EX148[0.5]	11/22/2004	176210
BB3EX149[0.5]	11/22/2004	176210
BB3EX150[0.5]	11/22/2004	176210
BB3EX150[2.5]	11/22/2004	176210
BB3EX150[2.5]- DUP112204A	11/22/2004	176210
BB3EX151[0.5]	11/23/2004	176248
BB3EX152[0.5]	11/23/2004	176248
BB3EX153[0.5]	11/23/2004	176248
BB3EX154[0.5]	11/23/2004	176248
BB3EX154[0.5]- DUP112304A	11/23/2004	176248
BB3EX155[0.5]	12/15/2004	176656[1]
BB3EX156[0.5]	12/16/2004	176702
BB3EX156[0.5]- DUP121604A	12/16/2004	176702
Baker Beach Disturbed Area 4 Confirmation Samples		
BB4EX100[0.5]	10/7/2004	175141
BB4EX100[0.5]- DUP100704A	10/7/2004	175141
BB4EX101[0.5]	10/7/2004	175141
BB4EX102[0.5]	10/7/2004	175141
BB4EX103[0.5]	10/7/2004	175141
BB4EX104[0.5]	10/7/2004	175141
BB4EX105[0.5]	10/7/2004	175141
BB4EX106[0.5]	10/7/2004	175141
BB4EX106[0.5]- DUP100704A	10/7/2004	175141
BB4EX107[0.5]	10/7/2004	175141
Trip Blanks		
TB081804A	8/18/2004	174074
TB100104A	10/1/2004	175037
TB100704A (Water)	10/7/2004	175141
TB110504A	11/5/2004	175836 / 175838
TB112204A	11/22/2004	176210
TB112304A	11/23/2004	176248

Notes

[1] The laboratory report for Sample Delivery Group 176656 also contains analytical results for sample BB3-CLLAB, which is not a confirmation soil sample. BB3-CLLAB is a characterization sample that was collected from an off-site quarried lava rock material that may be used in the future for road reconstruction efforts, therefore the analytical results for this sample are not formally presented in this report.

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173741

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX100[0.5]	173741-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 8/12/04
Operations Manager

Signature: _____ Date: 8/10/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

Laboratory Number: **173741**
Client: **Treadwell & Rollo**
Project Name: **Presidio – Baker Beach 3**

Order Date: **07/30/04**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one soil sample received from the above referenced project. The sample was received cold and intact.

Organochlorine Pesticides: Sample BB3EX100[0.5] (173741-001) required a five-fold dilution due to the dark and oily nature of the sample extract. No target compounds were detected at the dilution.

The matrix spike recoveries for gamma-BHC and dieldrin, and the matrix spike duplicate recoveries for all compounds except heptachlor, were outside acceptance limits. The associated laboratory control sample (LCS) recoveries were acceptable and the spiked sample was not from this site.

The %RSD of the initial calibration of GC16 on 7/29/04 for alpha-BHC from channel A was outside acceptance limits. The associated average %RSD for all compounds was acceptable on both channels, therefore, there is no affect on the quality of the sample results.

The %D of the continuing calibration standard (CCS) 212_022 was outside acceptance limits for several individual compounds. The affected compounds have been flagged with a "b" as per the method. The associated average %D for all compounds was acceptable on both channels, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

PCBs: No analytical problems were encountered.

Metals: The matrix spike recoveries for antimony were below acceptance limits. The associated blank spike recoveries were acceptable and the spiked sample was not from this site.

The serial dilution sample analyzed on 8/2/04 at 07:40 was outside acceptance limits for selenium. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

173741

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Rieris
Samplers: Mike Chamberlain
Recorder (Signature Required):

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	metals	Silica gel clean-up	Hold	Remarks
BB3EX100[0.5]	7/30/04	1035		X						1		X	X	X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	7/30/04	1150	Karen Gorman	7/30/04	1150
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: send login to Carole Nettle, Oakland office

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 003484

00004

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: Treadwell & Rolb Date Received: 7-30-04 Number of Coolers: 1
Client: 173741 Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 7-30-04 By (print): Troy Windsor (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Blue Temperature: Cold

B. Login Phase
Date Logged In: 7-30-04 By (print): Troy Windsor (sign) [signature]

1. Describe type of packing in cooler: In plastic Ziploc type bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX100[0.5]	Batch#:	93347
Lab ID:	173741-001	Sampled:	07/30/04
Matrix:	Soil	Received:	07/30/04
Units:	ug/Kg	Prepared:	07/30/04
Basis:	dry	Analyzed:	07/30/04
Diln Fac:	5.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	8.6
beta-BHC	ND	8.6
gamma-BHC	ND	8.6
delta-BHC	ND	8.6
Heptachlor	ND	8.6
Aldrin	ND	8.6
Heptachlor epoxide	ND	8.6
Endosulfan I	ND	8.6
Dieldrin	ND	17
4,4'-DDE	ND	17
Endrin	ND	17
Endosulfan II	ND	17
Endosulfan sulfate	ND	17
4,4'-DDD	ND	17
Endrin ketone	ND	17
4,4'-DDT	ND	17
Chlordane (Technical)	ND	150
alpha-Chlordane	ND	8.6
gamma-Chlordane	ND	8.6
Methoxychlor	ND	86
Toxaphene	ND	300

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	107	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC259622	Batch#:	93347
Matrix:	Soil	Prepared:	07/30/04
Units:	ug/Kg	Analyzed:	07/30/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	98	65-135
Decachlorobiphenyl	91	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC259623	Batch#:	93347
Matrix:	Soil	Prepared:	07/30/04
Units:	ug/Kg	Analyzed:	07/30/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.63	11.26	68	65-135
Heptachlor	16.63	12.29	74	65-135
Aldrin	16.63	11.58	70	65-135
Dieldrin	16.63	10.96	66	65-135
Endrin	16.63	12.13 b	73	65-135
4,4'-DDT	16.63	12.22	74	65-135

Surrogate	%REC	Limits
TCMX	98	65-135
Decachlorobiphenyl	92	65-135

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	93347
MSS Lab ID:	173711-001	Sampled:	07/28/04
Matrix:	Soil	Received:	07/29/04
Units:	ug/Kg	Prepared:	07/30/04
Basis:	as received	Analyzed:	08/02/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC259624

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.7600	16.48	10.56	64 *	65-135
Heptachlor	<1.300	16.48	11.45	69	65-135
Aldrin	<0.9100	16.48	11.45	69	65-135
Dieldrin	<2.000	16.48	10.16	62 *	65-135
Endrin	<2.200	16.48	10.95	66	65-135
4,4'-DDT	<2.700	16.48	10.89	66	65-135

Surrogate	%REC	Limits
TCMX	107	65-135
Decachlorobiphenyl	95	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC259625

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.59	10.24	62 *	65-135	4	35
Heptachlor	16.59	10.84	65	65-135	6	35
Aldrin	16.59	10.64	64 *	65-135	8	35
Dieldrin	16.59	9.763	59 *	65-135	5	35
Endrin	16.59	10.57	64 *	65-135	4	35
4,4'-DDT	16.59	10.45	63 *	65-135	5	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	77	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

11.0

00010

INITIAL CALIBRATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: RH
Calnum: 234303916001 Name: Type: (normal) Date: 29-JUL-2004 01:16 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	210_015	234303916015	pest_1	29-JUL-2004 01:16	04WS0929
2	210_016	234303916016	pest_2	29-JUL-2004 01:47	04WS0928
3	210_017	234303916017	pest_3	29-JUL-2004 02:17	04WS0927
4	210_018	234303916018	pest_4	29-JUL-2004 02:48	04WS0926
5	210_019	234303916019	pest_5	29-JUL-2004 03:18	04WS0925
6	210_020	234303916020	pest_6	29-JUL-2004 03:49	04WS0924
7	210_021	234303916021	pest_7	29-JUL-2004 04:20	04WS0923

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	8622.5	9267.3	12251	14627	11904	14604	14438	AVRG	R		8.167E-5		pg	12245	21	0.995	20	rsd ***
gamma-BHC	A	9003.6	9580.7	12329	14253	11387	13738	13296	AVRG	R		8.375E-5		pg	11941	17	0.995	20	
beta-BHC	A	7380.4	6643.6	7330.2	7703.7	5956.9	6841.3	6446.7	AVRG	R		1.449E-4		pg	6900.4	9	0.995	20	
delta-BHC	A	11739	10039	12062	14051	10915	13454	13007	AVRG	R		8.210E-5		pg	12181	12	0.995	20	
Heptachlor	A	11406	11332	13219	14207	11173	12785	11645	AVRG	R		8.161E-5		pg	12253	10	0.995	20	
Aldrin	A	9610.6	9546.0	11502	12860	10219	12020	11083	AVRG	R		9.110E-5		pg	10977	11	0.995	20	
Heptachlor epoxide	A	11433	11026	12592	13320	10510	11660	10054	AVRG	R		8.685E-5		pg	11513	10	0.995	20	
gamma-Chlordane	A	11413	10776	12531	13617	10637	12199	10703	AVRG	R		8.550E-5		pg	11697	10	0.995	20	
alpha-Chlordane	A	11165	10691	12519	13388	10426	11866	10320	AVRG	R		8.709E-5		pg	11482	10	0.995	20	
4,4'-DDE	A	10901	10574	12244	12995	10001	11194	9364.6	AVRG	R		9.059E-5		pg	11039	11	0.995	20	
Endosulfan I	A	10932	10532	12240	13180	10198	11680	9991.0	AVRG	R		8.889E-5		pg	11250	10	0.995	20	
Dieldrin	A	9991.3	9937.8	11943	12847	9933.8	11036	9213.9	AVRG	R		9.345E-5		pg	10700	12	0.995	20	
Endrin	A	9286.6	8948.5	10600	11323	8635.4	9584.1	7885.2	AVRG	R		1.056E-4		pg	9466.1	12	0.995	20	
4,4'-DDD	A	6774.3	6918.2	8559.9	9825.6	7449.9	8740.2	7466.6	AVRG	R		1.256E-4		pg	7962.1	14	0.995	20	
Endosulfan II	A	10305	9918.0	11385	12045	9222.3	10200	8475.5	AVRG	R		9.783E-5		pg	10222	12	0.995	20	
4,4'-DDT	A	6266.1	7002.3	8772.6	10321	7599.5	9272.9	8005.7	AVRG	R		1.223E-4		pg	8177.2	17	0.995	20	
Endrin aldehyde	A	9840.7	8714.3	9364.8	9765.7	7407.8	8210.8	6905.1	AVRG	R		1.163E-4		pg	8601.3	13	0.995	20	
Methoxychlor	A	4350.7	4264.0	4283.6	4248.1	3166.1	3371.0	2894.7	AVRG	R		2.634E-4		pg	3796.9	17	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: RH
Calnum: 234303916001 Name: Type: (normal) Date: 29-JUL-2004 01:16 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Endosulfan sulfate	A	10612	9586.2	10372	10859	8271.9	9107.7	7671.9	AVRG	R		1.053E-4		pg	9497.3	13	0.995	20	
Endrin ketone	A	10243	10404	11813	12613	9512.9	10578	9033.4	AVRG	R		9.434E-5		pg	10599	12	0.995	20	
TCMX	A	10491	10164	11250	11349	9471.0	10025	9284.3	AVRG	R		9.718E-5		pg	10291	8	0.995	20	
Decachlorobiphenyl	A	14172	13559	12793	12327	9289.3	9747.7	8658.9	AVRG	R		8.691E-5		pg	11507	19	0.995	20	
alpha-BHC	B	24700	25846	32049	35538	28850	34076	33862	AVRG	R		3.257E-5		pg	30703	14	0.995	20	
gamma-BHC	B	25818	25490	30584	33096	26431	31065	30418	AVRG	R		3.450E-5		pg	28986	10	0.995	20	
beta-BHC	B	20421	16747	17296	17137	13274	14681	13824	AVRG	R		6.174E-5		pg	16197	15	0.995	20	
delta-BHC	B	33342	27613	31014	33224	25909	30789	29639	AVRG	R		3.309E-5		pg	30219	9	0.995	20	
Heptachlor	B	24761	23190	25714	26675	21210	24068	22549	AVRG	R		4.163E-5		pg	24024	8	0.995	20	
Aldrin	B	24065	23569	27688	30000	23809	27560	25586	AVRG	R		3.840E-5		pg	26040	9	0.995	20	
Heptachlor epoxide	B	26814	24531	27263	28056	22151	24573	21709	AVRG	R		3.998E-5		pg	25014	10	0.995	20	
gamma-Chlordane	B	28325	25614	28719	30507	23983	27667	24803	AVRG	R		3.692E-5		pg	27088	9	0.995	20	
alpha-Chlordane	B	28151	25713	28807	30273	23614	27076	23950	AVRG	R		3.732E-5		pg	26798	9	0.995	20	
4,4'-DDE	B	20854	21077	25363	27937	21420	25123		AVRG	R		4.232E-5		pg	23629	12	0.995	20	
Endosulfan I	B	25403	23169	25976	27360	21303	24062	20851	AVRG	R		4.164E-5		pg	24018	10	0.995	20	
Dieldrin	B	23158	22408	26184	27809	21515	24349		AVRG	R		4.126E-5		pg	24237	10	0.995	20	
Endrin	B	20553	19503	22433	23908	18183	20841	17256	AVRG	R		4.906E-5		pg	20383	11	0.995	20	
4,4'-DDD	B	15386	14984	17651	19697	14928	17778	15341	AVRG	R		6.047E-5		pg	16538	11	0.995	20	
Endosulfan II	B	23422	20921	23097	24187	18502	20847	17213	AVRG	R		4.724E-5		pg	21170	12	0.995	20	
4,4'-DDT	B	12142	12484	15082	17740	13067	16613	14887	AVRG	R		6.862E-5		pg	14574	15	0.995	20	
Endrin aldehyde	B	19947	17236	18239	19118	14438	16359	14282	AVRG	R		5.852E-5		pg	17088	13	0.995	20	
Methoxychlor	B	7046.2	6746.0	7032.2	7597.6	5557.6	6354.6		AVRG	R		1.488E-4		pg	6722.4	10	0.995	20	
Endosulfan sulfate	B	22858	19513	20596	21572	16277	18520	16151	AVRG	R		5.167E-5		pg	19355	13	0.995	20	
Endrin ketone	B	21521	20516	22329	23801	17755	20651	17885	AVRG	R		4.846E-5		pg	20637	11	0.995	20	
TCMX	B	24097	22334	24005	23945	20004	21393	20337	AVRG	R		4.484E-5		pg	22302	8	0.995	20	
Decachlorobiphenyl	B	21022	19375	18292	18430	13781	15555	14954	AVRG	R		5.766E-5		pg	17344	15	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	13	20	
EPA 8081A	B	22	11	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234306102002 Run Name: Injected: 30-JUL-2004 13:42
Filename: 212_002 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	687230.59
4,4'-DDE	A	12077.21
4,4'-DDD	A	19329.85

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	414645.68
Endrin aldehyde	A	4253.94
Endrin ketone	A	8588.29

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1149035.85
4,4'-DDE	B	26167.84
4,4'-DDD	B	33619.33

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	837967.65
Endrin aldehyde	B	8861.77
Endrin ketone	B	20228.45

Endrin Breakdown %: 3
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234306102020 Run Name: Injected: 31-JUL-2004 01:00
Filename: 212_020 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	685164.94
4,4'-DDE	A	8977.34
4,4'-DDD	A	30894.79

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	421863.86
Endrin aldehyde	A	2330.5
Endrin ketone	A	7264.63

Endrin Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1322613.89
4,4'-DDE	B	19545.71
4,4'-DDD	B	57491.5

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	893995.44
Endrin aldehyde	B	6284.49
Endrin ketone	B	18831.39

Endrin Breakdown %: 3
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234310564010 Run Name: Injected: 02-AUG-2004 16:04
Filename: 215_010 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	762798.82
4,4'-DDE	A	6327.55
4,4'-DDD	A	26009.26

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	451302.52
Endrin aldehyde	A	12011.25
Endrin ketone	A	9158.21

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1279146.15
4,4'-DDE	B	12912.74
4,4'-DDD	B	49386.89

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	934205.5
Endrin aldehyde	B	28676.09
Endrin ketone	B	21966.8

Endrin Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234310564026 Run Name: Injected: 03-AUG-2004 01:34
Filename: 215_026 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	768491.19
4,4'-DDE	A	5126.51
4,4'-DDD	A	36249.53

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	462780.77
Endrin aldehyde	A	6943.89
Endrin ketone	A	14395.52

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1400836.66
4,4'-DDE	B	11687.02
4,4'-DDD	B	64623.52

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	990664.26
Endrin aldehyde	B	16875.61
Endrin ketone	B	37826.04

Endrin Breakdown %: 5
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234306102003
Calnum : 234303916001
Standards: 04WS0926

Run Name : pest_4
Filename : 212_003
Caldate : 29-JUL-2004

IDF : 1.0
Injected : 30-JUL-2004 14:12
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12245	13769	20.00000	22.48961	pg	12	15	rsd ***
gamma-BHC	A	11941	13410	20.00000	22.46070	pg	12	15	
beta-BHC	A	6900.4	7146.7	20.00000	20.71382	pg	4	15	
delta-BHC	A	12181	11833	20.00000	19.42950	pg	-3	15	
Heptachlor	A	12253	13335	20.00000	21.76638	pg	9	15	
Aldrin	A	10977	11999	20.00000	21.86268	pg	9	15	
Heptachlor epoxide	A	11513	12329	20.00000	21.41591	pg	7	15	
gamma-Chlordane	A	11697	12049	20.00000	20.60349	pg	3	15	
alpha-Chlordane	A	11482	12218	20.00000	21.28136	pg	6	15	
4,4'-DDE	A	11039	11798	40.00000	42.74998	pg	7	15	
Endosulfan I	A	11250	12047	20.00000	21.41581	pg	7	15	
Dieldrin	A	10700	11666	40.00000	43.60946	pg	9	15	
Endrin	A	9466.1	10270	40.00000	43.39708	pg	8	15	
4,4'-DDD	A	7962.1	8789.1	40.00000	44.15450	pg	10	15	
Endosulfan II	A	10222	11098	40.00000	43.42943	pg	9	15	
4,4'-DDT	A	8177.2	9084.0	40.00000	44.43544	pg	11	15	
Endrin aldehyde	A	8601.3	8760.1	40.00000	40.73827	pg	2	15	
Methoxychlor	A	3796.9	3840.4	200.0000	202.2935	pg	1	15	
Endosulfan sulfate	A	9497.3	9848.7	40.00000	41.48034	pg	4	15	
Endrin ketone	A	10599	11796	40.00000	44.51684	pg	11	15	
TCMX	A	10291	10981	40.00000	42.68355	pg	7	15	
Decachlorobiphenyl	A	11507	11099	40.00000	38.58373	pg	-4	15	
alpha-BHC	B	30703	33476	20.00000	21.80621	pg	9	15	
gamma-BHC	B	28986	30803	20.00000	21.25376	pg	6	15	
beta-BHC	B	16197	15778	20.00000	19.48243	pg	-3	15	
delta-BHC	B	30219	28080	20.00000	18.58421	pg	-7	15	
Heptachlor	B	24024	24712	20.00000	20.57305	pg	3	15	
Aldrin	B	26040	27832	20.00000	21.37697	pg	7	15	
Heptachlor epoxide	B	25014	25687	20.00000	20.53786	pg	3	15	
gamma-Chlordane	B	27088	27604	20.00000	20.38119	pg	2	15	
alpha-Chlordane	B	26798	27502	20.00000	20.52546	pg	3	15	
4,4'-DDE	B	23629	25107	40.00000	42.50219	pg	6	15	
Endosulfan I	B	24018	24798	20.00000	20.64943	pg	3	15	
Dieldrin	B	24237	24974	40.00000	41.21550	pg	3	15	
Endrin	B	20383	21136	40.00000	41.47791	pg	4	15	
4,4'-DDD	B	16538	17502	40.00000	42.33158	pg	6	15	
Endosulfan II	B	21170	22291	40.00000	42.11855	pg	5	15	
4,4'-DDT	B	14574	15324	40.00000	42.05871	pg	5	15	
Endrin aldehyde	B	17088	17309	40.00000	40.51634	pg	1	15	
Methoxychlor	B	6722.4	6809.8	200.0000	202.6006	pg	1	15	
Endosulfan sulfate	B	19355	18996	40.00000	39.25667	pg	-2	15	
Endrin ketone	B	20637	21196	40.00000	41.08414	pg	3	15	
TCMX	B	22302	22504	40.00000	40.36193	pg	1	15	
Decachlorobiphenyl	B	17344	17716	40.00000	40.85721	pg	2	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				4	15	

rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234306102022 Filename : 212_022 Injected : 31-JUL-2004 02:01
Calnum : 234303916001 Caldate : 29-JUL-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12245	11625	10.00000	9.493894	pg	-5	15	rsd ***
gamma-BHC	A	11941	12248	10.00000	10.25717	pg	3	15	
beta-BHC	A	6900.4	7287.4	10.00000	10.56079	pg	6	15	
delta-BHC	A	12181	10898	10.00000	8.946646	pg	-11	15	
Heptachlor	A	12253	13194	10.00000	10.76832	pg	8	15	
Aldrin	A	10977	11601	10.00000	10.56788	pg	6	15	
Heptachlor epoxide	A	11513	12821	10.00000	11.13582	pg	11	15	
gamma-Chlordane	A	11697	12602	10.00000	10.77444	pg	8	15	
alpha-Chlordane	A	11482	12634	10.00000	11.00310	pg	10	15	
4,4'-DDE	A	11039	12640	20.00000	22.90110	pg	15	15	
Endosulfan I	A	11250	12510	10.00000	11.11979	pg	11	15	
Dieldrin	A	10700	12183	20.00000	22.77023	pg	14	15	
Endrin	A	9466.1	10984	20.00000	23.20700	pg	**16**	15	c+ ***
4,4'-DDD	A	7962.1	9112.5	20.00000	22.88971	pg	14	15	
Endosulfan II	A	10222	11702	20.00000	22.89666	pg	14	15	
4,4'-DDT	A	8177.2	8744.7	20.00000	21.38804	pg	7	15	
Endrin aldehyde	A	8601.3	9560.9	20.00000	22.23134	pg	11	15	
Methoxychlor	A	3796.9	4383.9	100.0000	115.4613	pg	15	15	
Endosulfan sulfate	A	9497.3	10196	20.00000	21.47102	pg	7	15	
Endrin ketone	A	10599	12037	20.00000	22.71310	pg	14	15	
TCMX	A	10291	11117	20.00000	21.60661	pg	8	15	
Decachlorobiphenyl	A	11507	12754	20.00000	22.16861	pg	11	15	
alpha-BHC	B	30703	32198	10.00000	10.48689	pg	5	15	
gamma-BHC	B	28986	31343	10.00000	10.81320	pg	8	15	
beta-BHC	B	16197	17598	10.00000	10.86473	pg	9	15	
delta-BHC	B	30219	28914	10.00000	9.568342	pg	-4	15	
Heptachlor	B	24024	27788	10.00000	11.56670	pg	**16**	15	c+ ***
Aldrin	B	26040	28225	10.00000	10.83935	pg	8	15	
Heptachlor epoxide	B	25014	27937	10.00000	11.16841	pg	12	15	
gamma-Chlordane	B	27088	29563	10.00000	10.91374	pg	9	15	
alpha-Chlordane	B	26798	29573	10.00000	11.03562	pg	10	15	
4,4'-DDE	B	23629	26541	20.00000	22.46473	pg	12	15	
Endosulfan I	B	24018	26721	10.00000	11.12561	pg	11	15	
Dieldrin	B	24237	27010	20.00000	22.28788	pg	11	15	
Endrin	B	20383	23938	20.00000	23.48861	pg	**17**	15	c+ ***
4,4'-DDD	B	16538	20188	20.00000	24.41422	pg	**22**	15	c+ ***
Endosulfan II	B	21170	24119	20.00000	22.78623	pg	14	15	
4,4'-DDT	B	14574	16742	20.00000	22.97618	pg	15	15	
Endrin aldehyde	B	17088	18957	20.00000	22.18744	pg	11	15	
Methoxychlor	B	6722.4	8125.8	100.0000	120.8769	pg	**21**	15	c+ ***
Endosulfan sulfate	B	19355	20554	20.00000	21.23900	pg	6	15	
Endrin ketone	B	20637	23564	20.00000	22.83666	pg	14	15	
TCMX	B	22302	24108	20.00000	21.61937	pg	8	15	
Decachlorobiphenyl	B	17344	18617	20.00000	21.46800	pg	7	15	
Average EPA 8081A	A		(count=22)				10	15	
Average EPA 8081A	B		(count=22)				11	15	

+=high bias c=CCV rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234310564013
Calnum : 234303916001
Standards: 04WS0926

Run Name : ccv
Filename : 215_013
Caldate : 29-JUL-2004

IDF : 1.0
Injected : 02-AUG-2004 18:58
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12245	13848	20.00000	22.61777	pg	13	15	rsd ***
gamma-BHC	A	11941	13533	20.00000	22.66680	pg	13	15	
beta-BHC	A	6900.4	7306.7	20.00000	21.17756	pg	6	15	
delta-BHC	A	12181	12979	20.00000	21.31030	pg	7	15	
Heptachlor	A	12253	13175	20.00000	21.50569	pg	8	15	
Aldrin	A	10977	12052	20.00000	21.95925	pg	10	15	
Heptachlor epoxide	A	11513	12503	20.00000	21.71947	pg	9	15	
gamma-Chlordane	A	11697	12755	20.00000	21.80987	pg	9	15	
alpha-Chlordane	A	11482	12544	20.00000	21.84901	pg	9	15	
4,4'-DDE	A	11039	12252	40.00000	44.39462	pg	11	15	
Endosulfan I	A	11250	12226	20.00000	21.73505	pg	9	15	
Dieldrin	A	10700	11730	40.00000	43.84676	pg	10	15	
Endrin	A	9466.1	10624	40.00000	44.89301	pg	12	15	
4,4'-DDD	A	7962.1	9171.1	40.00000	46.07350	pg	15	15	
Endosulfan II	A	10222	11191	40.00000	43.79212	pg	9	15	
4,4'-DDT	A	8177.2	9312.5	40.00000	45.55316	pg	14	15	
Endrin aldehyde	A	8601.3	8027.9	40.00000	37.33347	pg	-7	15	
Methoxychlor	A	3796.9	3775.5	200.0000	198.8743	pg	-1	15	
Endosulfan sulfate	A	9497.3	10020	40.00000	42.20363	pg	6	15	
Endrin ketone	A	10599	11743	40.00000	44.31644	pg	11	15	
TCMX	A	10291	10818	40.00000	42.05036	pg	5	15	
Decachlorobiphenyl	A	11507	11009	40.00000	38.26910	pg	-4	15	
alpha-BHC	B	30703	34622	20.00000	22.55332	pg	13	15	
gamma-BHC	B	28986	31705	20.00000	21.87627	pg	9	15	
beta-BHC	B	16197	16321	20.00000	20.15323	pg	1	15	
delta-BHC	B	30219	30919	20.00000	20.46310	pg	2	15	
Heptachlor	B	24024	24992	20.00000	20.80594	pg	4	15	
Aldrin	B	26040	28944	20.00000	22.23065	pg	11	15	
Heptachlor epoxide	B	25014	26383	20.00000	21.09464	pg	5	15	
gamma-Chlordane	B	27088	28897	20.00000	21.33531	pg	7	15	
alpha-Chlordane	B	26798	28699	20.00000	21.41859	pg	7	15	
4,4'-DDE	B	23629	26308	40.00000	44.53434	pg	11	15	
Endosulfan I	B	24018	25399	20.00000	21.14990	pg	6	15	
Dieldrin	B	24237	26085	40.00000	43.05028	pg	8	15	
Endrin	B	20383	22005	40.00000	43.18423	pg	8	15	
4,4'-DDD	B	16538	17097	40.00000	41.35255	pg	3	15	
Endosulfan II	B	21170	23078	40.00000	43.60501	pg	9	15	
4,4'-DDT	B	14574	15371	40.00000	42.18978	pg	5	15	
Endrin aldehyde	B	17088	18006	40.00000	42.14765	pg	5	15	
Methoxychlor	B	6722.4	6476.3	200.0000	192.6784	pg	-4	15	
Endosulfan sulfate	B	19355	19975	40.00000	41.28040	pg	3	15	
Endrin ketone	B	20637	21923	40.00000	42.49385	pg	6	15	
TCMX	B	22302	25020	40.00000	44.87498	pg	12	15	
Decachlorobiphenyl	B	17344	17120	40.00000	39.48396	pg	-1	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				6	15	

rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_5 IDF : 1.0
Seqnum : 234310564027 Filename : 215_027 Injected : 03-AUG-2004 02:04
Calnum : 234303916001 Caldate : 29-JUL-2004 Caltype :
Standards: 04WS1375

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12245	12470	25.00000	25.46078	pg	2	15	rsd ***
gamma-BHC	A	11941	11898	25.00000	24.91026	pg	0	15	
beta-BHC	A	6900.4	6306.8	25.00000	22.84948	pg	-9	15	
delta-BHC	A	12181	11500	25.00000	23.60169	pg	-6	15	
Heptachlor	A	12253	11286	25.00000	23.02683	pg	-8	15	
Aldrin	A	10977	10766	25.00000	24.51822	pg	-2	15	
Heptachlor epoxide	A	11513	11057	25.00000	24.00858	pg	-4	15	
gamma-Chlordane	A	11697	11297	25.00000	24.14616	pg	-3	15	
alpha-Chlordane	A	11482	11164	25.00000	24.30617	pg	-3	15	
4,4'-DDE	A	11039	10801	50.00000	48.92336	pg	-2	15	
Endosulfan I	A	11250	10938	25.00000	24.30680	pg	-3	15	
Dieldrin	A	10700	10584	50.00000	49.45717	pg	-1	15	
Endrin	A	9466.1	9119.8	50.00000	48.17085	pg	-4	15	
4,4'-DDD	A	7962.1	8418.6	50.00000	52.86635	pg	6	15	
Endosulfan II	A	10222	9899.2	50.00000	48.42298	pg	-3	15	
4,4'-DDT	A	8177.2	7641.5	50.00000	46.72442	pg	-7	15	
Endrin aldehyde	A	8601.3	8005.9	50.00000	46.53900	pg	-7	15	
Methoxychlor	A	3796.9	3251.1	250.0000	214.0637	pg	-14	15	
Endosulfan sulfate	A	9497.3	8784.6	50.00000	46.24805	pg	-8	15	
Endrin ketone	A	10599	10261	50.00000	48.40321	pg	-3	15	
TCMX	A	10291	9754.0	50.00000	47.39320	pg	-5	15	
Decachlorobiphenyl	A	11507	9739.1	50.00000	42.32011	pg	-15	15	
alpha-BHC	B	30703	30536	25.00000	24.86454	pg	-1	15	
gamma-BHC	B	28986	28015	25.00000	24.16296	pg	-3	15	
beta-BHC	B	16197	14170	25.00000	21.87125	pg	-13	15	
delta-BHC	B	30219	27110	25.00000	22.42814	pg	-10	15	
Heptachlor	B	24024	21859	25.00000	22.74721	pg	-9	15	
Aldrin	B	26040	25247	25.00000	24.23853	pg	-3	15	
Heptachlor epoxide	B	25014	23556	25.00000	23.54277	pg	-6	15	
gamma-Chlordane	B	27088	25586	25.00000	23.61395	pg	-6	15	
alpha-Chlordane	B	26798	25133	25.00000	23.44671	pg	-6	15	
4,4'-DDE	B	23629	23348	50.00000	49.40459	pg	-1	15	
Endosulfan I	B	24018	22739	25.00000	23.66913	pg	-5	15	
Dieldrin	B	24237	23032	50.00000	47.51345	pg	-5	15	
Endrin	B	20383	19522	50.00000	47.88848	pg	-4	15	
4,4'-DDD	B	16538	17394	50.00000	52.58831	pg	5	15	
Endosulfan II	B	21170	20441	50.00000	48.27792	pg	-3	15	
4,4'-DDT	B	14574	13715	50.00000	47.05502	pg	-6	15	
Endrin aldehyde	B	17088	15879	50.00000	46.46127	pg	-7	15	
Methoxychlor	B	6722.4	5841.2	250.0000	217.2295	pg	-13	15	
Endosulfan sulfate	B	19355	17599	50.00000	45.46155	pg	-9	15	
Endrin ketone	B	20637	19607	50.00000	47.50391	pg	-5	15	
TCMX	B	22302	20834	50.00000	46.70858	pg	-7	15	
Decachlorobiphenyl	B	17344	14866	50.00000	42.85611	pg	-14	15	
Average EPA 8081A	A		(count=22)				5	15	
Average EPA 8081A	B		(count=22)				6	15	

rsd=ICAL %RSD failure

SEQUENCE SUMMARY FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234303916 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 28-JUL-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
012	210_012	PEM				28-JUL-2004 23:45	1.0			1			1	
014	210_014	X	hex			29-JUL-2004 00:46	1.0							
015	210_015	ICAL	pest_1			29-JUL-2004 01:16	1.0						2	
016	210_016	ICAL	pest_2			29-JUL-2004 01:47	1.0						3	
017	210_017	ICAL	pest_3			29-JUL-2004 02:17	1.0						4	
018	210_018	ICAL	pest_4			29-JUL-2004 02:48	1.0						5	
019	210_019	ICAL	pest_5			29-JUL-2004 03:18	1.0						6	
020	210_020	ICAL	pest_6			29-JUL-2004 03:49	1.0						7	
021	210_021	ICAL	pest_7			29-JUL-2004 04:20	1.0						8	
023	210_023	ICV	accu_pest			29-JUL-2004 05:20	1.0	1		1			9	
024	210_024	X	icv			29-JUL-2004 05:51	1.0						9	

Stds used: 1=04WS0930 2=04WS0929 3=04WS0928 4=04WS0927 5=04WS0926 6=04WS0925 7=04WS0924 8=04WS0923 9=04WS1240

SEQUENCE SUMMARY FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234306102 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 30-JUL-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	212_002	PEM				30-JUL-2004 13:42	1.0	1.0			1	1	
003	212_003	CCV	pest_4			30-JUL-2004 14:12	1.0	1.0	1		1	2	
004	212_004	X	ccv			30-JUL-2004 14:43	1.0					2	
005	212_005	X	diagnostic			30-JUL-2004 16:22	1.0						
006	212_006	X	diagnostic			30-JUL-2004 16:53	1.0						
007	212_007	X	diagnostic			30-JUL-2004 17:34	1.0						
009	212_009	BLANK	QC259622	93347	Soil	30-JUL-2004 19:25	1.0	0.6673			1		
010	212_010	LCS	QC259623	93347	Soil	30-JUL-2004 19:55	1.0	0.6651	6		1		
011	212_011	MSS	173711-001	93347	Soil	30-JUL-2004 20:26	1.0	0.6592			1		
012	212_012	MS	QC259624	93347	Soil	30-JUL-2004 20:56	1.0	0.6592	6		1		
013	212_013	MSD	QC259625	93347	Soil	30-JUL-2004 21:27	1.0	0.6638	6		1		
014	212_014	SAMPLE	173694-009	93347	Soil	30-JUL-2004 21:57	1.0	0.6566			1		
015	212_015	SAMPLE	173694-010	93347	Soil	30-JUL-2004 22:27	1.0	0.6682			1		
016	212_016	SAMPLE	173711-002	93347	Soil	30-JUL-2004 22:58	4.0	0.6676			1		
017	212_017	SAMPLE	173711-003	93347	Soil	30-JUL-2004 23:29	5.0	0.6656			1		
018	212_018	SAMPLE	173741-001	93347	Soil	30-JUL-2004 23:59	5.0	0.6607			1	spk	
020	212_020	PEM				31-JUL-2004 01:00	1.0	1.0			1	1	
021	212_021	X	pest_3			31-JUL-2004 01:30	1.0					3	
022	212_022	CCV	ccv			31-JUL-2004 02:01	1.0	1.0	6		1	3	
023	212_023	X	ccv			31-JUL-2004 02:31	1.0					4	
025	212_025	SAMPLE	173719-001	93347	Soil	31-JUL-2004 03:32	1.0	0.6754	1		1		
026	212_026	SAMPLE	173719-002	93347	Soil	31-JUL-2004 04:02	1.0	0.6743			1		
027	212_027	SAMPLE	173719-003	93347	Soil	31-JUL-2004 04:33	1.0	0.6736			1		
028	212_028	SAMPLE	173719-004	93347	Soil	31-JUL-2004 05:03	1.0	0.6682			1		
029	212_029	SAMPLE	173719-005	93347	Soil	31-JUL-2004 05:34	1.0	0.6709			1		
030	212_030	SAMPLE	173719-006	93347	Soil	31-JUL-2004 06:04	1.0	0.6725		3	1		
031	212_031	SAMPLE	173719-007	93347	Soil	31-JUL-2004 06:35	1.0	0.6664	2		1		2:DIELDR=200.435
032	212_032	SAMPLE	173719-008	93347	Soil	31-JUL-2004 07:05	5.0	0.6734			1		
033	212_033	SAMPLE	173719-009	93347	Soil	31-JUL-2004 07:36	1.0	0.6676			1		
034	212_034	SAMPLE	173719-010	93347	Soil	31-JUL-2004 08:06	1.0	0.67			1		

Stds used: 1=04WS1389 2=04WS0926 3=04WS1385 4=04WS1375
Flags used: spk=5% spike rule

220022

SEQUENCE SUMMARY FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234306102 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 30-JUL-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	212_036	PEM				31-JUL-2004 09:07	1.0	1.0			1	1	
037	212_037	CCV	pest_4			31-JUL-2004 09:38	1.0	1.0	1		1	2	
038	212_038	X	ccv			31-JUL-2004 10:08	1.0					2	
040	212_040	SAMPLE	173727-001	93347	Soil	31-JUL-2004 11:09	1.0	0.6671	9		1		8:GCHLOR=508.389
041	212_041	SAMPLE	173728-001	93347	Soil	31-JUL-2004 11:39	5.0	0.6649			1		
043	212_043	PEM				31-JUL-2004 12:40	1.0	1.0			1	1	
044	212_044	CCV	pest_3			31-JUL-2004 13:11	1.0	1.0	5		1	3	
045	212_045	X	ccv			31-JUL-2004 13:42	1.0					3	
046	212_046	X	ccv			31-JUL-2004 14:12	1.0					4	

Stds used: 1=04WS1389 2=04WS0926 3=04WS1385 4=04WS1375
Flags used: spk=5% spike rule

00023

SEQUENCE SUMMARY FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234310564 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
010	215_010	PEM				02-AUG-2004 16:04	1.0	1.0			1	1	
011	215_011	X	pest_4			02-AUG-2004 16:34	1.0					2	
012	215_012	X	ccv			02-AUG-2004 17:05	1.0					2	
013	215_013	CCV	ccv			02-AUG-2004 18:58	1.0	1.0	1		1	2	
015	215_015	BLANK	QC259856	93406	Soil	02-AUG-2004 19:59	1.0	0.662			1		
016	215_016	LCS	QC259857	93406	Soil	02-AUG-2004 20:30	1.0	0.6662	1		1		
017	215_017	SAMPLE	173727-001	93347	Soil	02-AUG-2004 21:00	10.0						
018	215_018	SAMPLE	173746-005	93406	Soil	02-AUG-2004 21:31	1.0	0.6601			1		
019	215_019	SAMPLE	173746-010	93406	Soil	02-AUG-2004 22:01	1.0	0.6693			1		
020	215_020	SAMPLE	173746-015	93406	Soil	02-AUG-2004 22:32	1.0	0.6696			1		
021	215_021	MS	QC259624	93347	Soil	02-AUG-2004 23:02	1.0	0.6592	1		1		
022	215_022	MSD	QC259625	93347	Soil	02-AUG-2004 23:32	1.0	0.6638	1		1		
023	215_023	SAMPLE	173719-007	93347	Soil	03-AUG-2004 00:02	4.0	0.6664			1		
024	215_024	SAMPLE	173728-001	93347	Soil	03-AUG-2004 00:33	5.0	0.6649			1		
026	215_026	PEM				03-AUG-2004 01:34	1.0	1.0			1	1	
027	215_027	CCV	pest_5			03-AUG-2004 02:04	1.0	1.0	1		1	3	
028	215_028	X	ccv			03-AUG-2004 02:35	1.0					3	
029	215_029	X	ccv			03-AUG-2004 03:05	1.0					4	
031	215_031	SAMPLE	173724-002	93406	Soil	03-AUG-2004 04:06	1.0	0.6616			1		
032	215_032	SAMPLE	173762-001	93406	Soil	03-AUG-2004 04:37	5.0	0.6585			1		
033	215_033	SAMPLE	173762-002	93406	Soil	03-AUG-2004 05:07	10.0	0.6714			1		
034	215_034	SAMPLE	173762-003	93406	Soil	03-AUG-2004 05:38	4.0	0.6653			1		
036	215_036	PEM				03-AUG-2004 06:39	1.0	1.0			1	1	
037	215_037	X	pest_4			03-AUG-2004 07:09	1.0					2	
038	215_038	CCV	ccv			03-AUG-2004 07:39	1.0	1.0	3		1	2	
040	215_040	SAMPLE	173727-001	93347	Soil	03-AUG-2004 11:22	20.0	0.6671	15		1	>ac	
051	215_051	PEM				03-AUG-2004 18:16	1.0	1.0			1	1	
052	215_052	X	pest_5			03-AUG-2004 18:57	1.0					3	
053	215_053	X	ccv			03-AUG-2004 19:28	1.0					3	
054	215_054	CCV	ccv			03-AUG-2004 19:58	1.0	1.0	18		1	4 ac	

Stds used: 1=04WS1389 2=04WS0926 3=04WS1375 4=04WS1385
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 173741 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234310564 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
067	215_067	PEM				04-AUG-2004 02:34	1.0	1.0			1	1	
068	215_068	CCV	pest_4			04-AUG-2004 03:04	1.0	1.0	3		1	2	
069	215_069	X	ccv			04-AUG-2004 03:35	1.0					2	

Stds used: 1=04WS1389 2=04WS0926 3=04WS1375 4=04WS1385
Flags used: >=closing ac=average CCV drift out

0025

Reporting Summary for 173741 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173741-001	alpha-BHC	GC16	B	07/30/04 23:59
173741-001	beta-BHC	GC16	A	07/30/04 23:59
173741-001	gamma-BHC	GC16	B	07/30/04 23:59
173741-001	delta-BHC	GC16	A	07/30/04 23:59
173741-001	Heptachlor	GC16	A	07/30/04 23:59
173741-001	Aldrin	GC16	A	07/30/04 23:59
173741-001	Heptachlor epoxide	GC16	A	07/30/04 23:59
173741-001	Endosulfan I	GC16	A	07/30/04 23:59
173741-001	Dieldrin	GC16	A	07/30/04 23:59
173741-001	4,4'-DDE	GC16	A	07/30/04 23:59
173741-001	Endrin	GC16	A	07/30/04 23:59
173741-001	Endosulfan II	GC16	A	07/30/04 23:59
173741-001	Endosulfan sulfate	GC16	A	07/30/04 23:59
173741-001	4,4'-DDD	GC16	A	07/30/04 23:59
173741-001	Endrin ketone	GC16	A	07/30/04 23:59
173741-001	4,4'-DDT	GC16	A	07/30/04 23:59
173741-001	Chlordane (Technical)	GC16	B	07/30/04 23:59
173741-001	alpha-Chlordane	GC16	A	07/30/04 23:59
173741-001	gamma-Chlordane	GC16	A	07/30/04 23:59
173741-001	Methoxychlor	GC16	A	07/30/04 23:59
173741-001	Toxaphene	GC16	B	07/30/04 23:59
173741-001	TCMX	GC16	A	07/30/04 23:59
173741-001	Decachlorobiphenyl	GC16	A	07/30/04 23:59
QC259622	alpha-BHC	GC16	B	07/30/04 19:25
QC259622	beta-BHC	GC16	A	07/30/04 19:25
QC259622	gamma-BHC	GC16	B	07/30/04 19:25
QC259622	delta-BHC	GC16	A	07/30/04 19:25
QC259622	Heptachlor	GC16	A	07/30/04 19:25
QC259622	Aldrin	GC16	A	07/30/04 19:25
QC259622	Heptachlor epoxide	GC16	A	07/30/04 19:25
QC259622	Endosulfan I	GC16	A	07/30/04 19:25
QC259622	Dieldrin	GC16	A	07/30/04 19:25
QC259622	4,4'-DDE	GC16	A	07/30/04 19:25
QC259622	Endrin	GC16	A	07/30/04 19:25
QC259622	Endosulfan II	GC16	A	07/30/04 19:25
QC259622	Endosulfan sulfate	GC16	A	07/30/04 19:25
QC259622	4,4'-DDD	GC16	A	07/30/04 19:25
QC259622	Endrin ketone	GC16	A	07/30/04 19:25
QC259622	4,4'-DDT	GC16	A	07/30/04 19:25
QC259622	Chlordane (Technical)	GC16	B	07/30/04 19:25
QC259622	alpha-Chlordane	GC16	A	07/30/04 19:25
QC259622	gamma-Chlordane	GC16	A	07/30/04 19:25
QC259622	Methoxychlor	GC16	A	07/30/04 19:25
QC259622	Toxaphene	GC16	B	07/30/04 19:25
QC259622	TCMX	GC16	A	07/30/04 19:25
QC259622	Decachlorobiphenyl	GC16	A	07/30/04 19:25
QC259623	gamma-BHC	GC16	B	07/30/04 19:55
QC259623	Heptachlor	GC16	A	07/30/04 19:55
QC259623	Aldrin	GC16	A	07/30/04 19:55
QC259623	Dieldrin	GC16	A	07/30/04 19:55
QC259623	Endrin	GC16	A	07/30/04 19:55
QC259623	4,4'-DDT	GC16	A	07/30/04 19:55

Reporting Summary for 173741 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC259623	TCMX	GC16	A	07/30/04 19:55
QC259623	Decachlorobiphenyl	GC16	A	07/30/04 19:55
QC259624	gamma-BHC	GC16	B	08/02/04 23:02
QC259624	Heptachlor	GC16	B	08/02/04 23:02
QC259624	Aldrin	GC16	B	08/02/04 23:02
QC259624	Dieldrin	GC16	B	08/02/04 23:02
QC259624	Endrin	GC16	B	08/02/04 23:02
QC259624	4,4'-DDT	GC16	B	08/02/04 23:02
QC259624	TCMX	GC16	B	08/02/04 23:02
QC259624	Decachlorobiphenyl	GC16	B	08/02/04 23:02
QC259625	gamma-BHC	GC16	B	08/02/04 23:32
QC259625	Heptachlor	GC16	B	08/02/04 23:32
QC259625	Aldrin	GC16	B	08/02/04 23:32
QC259625	Dieldrin	GC16	B	08/02/04 23:32
QC259625	Endrin	GC16	B	08/02/04 23:32
QC259625	4,4'-DDT	GC16	B	08/02/04 23:32
QC259625	TCMX	GC16	B	08/02/04 23:32
QC259625	Decachlorobiphenyl	GC16	B	08/02/04 23:32

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-JUL-2004 18:03**

Batch Number : 93347
Date Extracted: 30-JUL-2004
Extracted by : Coral E. Weese
Prep Method : 3550

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993A
Spike #2 ID : 04WS0840D
Spike #3 ID :
SOP Version : 8081s_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173694-009			PES Environmental, Inc.	Soil	30.46	g	20	0.656599	1	.02	0		8081	3620B	
173694-010			PES Environmental, Inc.	Soil	29.93	g	20	0.668226	1	.02	0		8081	3620B	
173711-001			URS Corporation	Soil	30.34	g	20	0.659196	1	.02	0		8081	3620B	mss
173711-002			URS Corporation	Soil	29.96	g	20	0.667557	1	.02	0		8081	3620B	
173711-003			URS Corporation	Soil	30.05	g	20	0.665557	1	.02	0		8081	3620B	
173719-001			Geomatrix Consultants	Soil	29.61	g	20	0.675447	1	.02	0		8081	3620B	
173719-002			Geomatrix Consultants	Soil	29.66	g	20	0.674309	1	.02	0		8081	3620B	
173719-003			Geomatrix Consultants	Soil	29.69	g	20	0.673627	1	.02	0		8081	3620B	
173719-004			Geomatrix Consultants	Soil	29.93	g	20	0.668226	1	.02	0		8081	3620B	
173719-005			Geomatrix Consultants	Soil	29.81	g	20	0.670916	1	.02	0		8081	3620B	
173719-006			Geomatrix Consultants	Soil	29.74	g	20	0.672495	1	.02	0		8081	3620B	
173719-007			Geomatrix Consultants	Soil	30.01	g	20	0.666445	1	.02	0		8081	3620B	
173719-008			Geomatrix Consultants	Soil	29.7	g	20	0.673401	1	.02	0		8081	3620B	
173719-009			Geomatrix Consultants	Soil	29.96	g	20	0.667557	1	.02	0		8081	3620B	
173719-010			Geomatrix Consultants	Soil	29.85	g	20	0.670017	1	.02	0		8081	3620B	
173727-001			CH2M Hill Constructors Inc.	Soil	29.98	g	20	0.667111	1	.02	0		8081	3620B	
173728-001			CH2M Hill Constructors Inc.	Soil	30.08	g	20	0.664894	1	.02	0		8081	3620B	
173741-001			Treadwell & Rollo	Soil	30.27	g	20	0.660720	1	.02	0		8081	3620B	
QC259622	MB			Soil	29.97	g	20	0.667334	1	.02	0		8081	3620B	
QC259623	LCS			Soil	30.07	g	20	0.665115	1	.02	1		8081	3620B	
QC259624	MS	of 173711-001		Soil	30.34	g	20	0.659196	1	.02	1		8081	3620B	
QC259625	MSD	of 173711-001		Soil	30.13	g	20	0.663790	1	.02	1		8081	3620B	

Prep Chemist: Coral Weese Reviewed By: Jennifer Dell Date: 7/30/04

Relinquished By: Coral Weese Received By: [illegible] Date: 7/30/04

00028

Curtis & Tompkins, Ltd.

8081 SOIL PREP LOG

BK 1965

Page 12

LIMS Batch No: 93347
LIMS Analysis: 8081
Extracted by: CW
Date Extracted: 7/30/04

Extraction Method:
- ☑ EPA 3550b Sonication
- ☐ EPA 3545 PFE (Mth#_____)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
173694-009	30.46	20.0	X	
-010	29.93			
173711-001	30.34			MSS
-002	29.96			
-003	30.05			
173719-001	29.61			
-002	29.66			
-003	29.69			
-004	29.93			noticed small hole in 2nd chamber of Snyder column
-005	29.81			
-006	29.74			
-007	30.01			
-008	29.70			
-009	29.96			
-010	29.85			
173727-001	29.98			
173728-001	30.08			
MBQC259622	29.97			
LCS 3	30.07			
MS 4	30.34			
MSD 5	30.13			
~~173741-001~~	~~30.27~~	~~20.0~~	~~X~~	~~added later 3rd ext prep~~
		CW 7/30/04		

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM43310410	CW 7/30/04
dried with CH_2Cl_2-rinsed ☑ granular Na_2SO_4 ☐ diatomaceous earth	JTBA17H50	
0.02 mL of surrogate solution was added to all samples	04WS0993A	
1.0 mL of spike solution was added to all spikes	04WS0840D	
1:1 CH_2Cl_2 (lot# EM44161):Acetone(lot# EM14085) was added to all	✓	1:1
☑ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	NA	
Soxhlets on at:	↓	
Soxhlets off at:	✓	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	JTBA17H50	
Exchanged 2x with Hexane	✓ BJC 8998	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	✓

CW 7/30/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jennifer Wall 7/30/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: CEW
Cleanup Date: 7/30/04

Benchbook # **BK 1851**
Page 76

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
173694-009	93347	1.0	1.0	
-010				
173711-001				
-002				
-003				
173719-001				MGS
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
-010				
173727-001				
173728-001				
~~173~~ JPD 7/30/04				
MB QC259622				
LCS 23				
MS 24				
MSD 25				
173741-001	93347	1.0	1.0	~~Added after 3x rinsing~~

7/30/04

	Mfg & Lot # / Time / Program	Initials / Date
☑ Extracts were cleaned up using Florisil cartridges	Resprep 204120-A	JPD 7/30/04
Florisil cartridges/ columns rinsed 3x with Hexane	BI CK898	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	↓	
Acetone	EM43350	
Concentrated to volumes as noted above	✓	

00030

Extraction Chemist / Date 7/30/04

Continued from page —
Continued on page —

Reviewed by / Date 7/30/04

PROJECT Soil Aliquot

Notebook No. 1964

Continued From Page

Sample ID	Weight	Analysis	Comments
173694-009	30.46	8081	Comp (001-004)A
010	29.93		(005-008)A
173711-001	30.34		(A-D), MSS
002	29.96		
003	30.05		
173719-001A	29.61		
002	29.66		
003	29.69		
004	29.93		
005	29.81		
006	29.74		
007	30.01		
008	29.70		
009	29.96		
010	29.85		
MB	29.97		EM4 3310410
LCS	30.07		
MS	30.34		173711-001
MSD	30.13		

RJS 7/29/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 7/29/04 Signed: Date:

Sample ID	Weight	Analysis	Comments
173724-002	30.25	8081	Comp (A-H)
↓ ↓	30.01	PCB	↓
173727-001A	29.98	8081	
↓ ↓	30.31	PCB	
173728-001A	30.08	8081	
↓ ↓	29.94	PCB	

RSS 7/30/04

Continued on Page

Read and Understood By

Signed 7/30/04 Date Signed Date

PROJECT Soil Aliquot

Continued From Page

Sample ID	Weight	Analysis	Comments
173741-001A	30.27	8081	
↓ ↓	30.01	PCB	

RSS 7/30/04

Continued on Page

Read and Understood By

Signed: [illegible] Date: 7/30/04 Signed: Date:

Pesticides by EPA 8081	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
EPA 3550 Soil MDLs (ug/Kg)	5/08/03	5/08/03	4/16/04	4/16/04	4/28/04	4/28/04
Aldrin	0.56	0.60	0.93	0.94	0.70	0.74
a-BHC	0.55	0.56	0.87	0.77	0.37	0.65
b-BHC	0.74	0.60	0.68	0.90	0.42	0.65
d-BHC	0.59	0.61	1.0	0.93	0.53	1.2
g-BHC (Lindane)	0.64	0.48	0.95	0.78	0.30	0.65
4,4'-DDD	0.66	0.63	1.9	1.8	0.72	0.71
4,4'-DDE	0.54	0.50	2.0	2.0	0.86	0.72
4,4'-DDT	1.2	0.74	2.7	2.2	1.8	0.58
alpha-Chlordane	0.61	0.57	0.99	1.0	0.71	0.55
gamma-Chlordane	0.57	0.55	0.97	1.0	0.78	0.63
Dieldrin	0.57	0.51	2.0	2.0	0.67	0.75
Endosulfan I	0.50	0.55	1.0	1.0	1.4	1.2
Endosulfan II	0.67	0.62	1.9	1.7	1.5	1.4
Endosulfan sulfate	0.68	0.66	1.8	1.8	1.2	0.69
Endrin	0.65	0.54	2.2	2.0	0.74	0.68
Endrin aldehyde	0.50	0.56	1.9	1.8	0.87	0.79
Endrin ketone	0.83	0.65	1.9	1.7	1.2	0.79
Heptachlor	0.76	0.67	1.3	1.1	0.30	0.64
Heptachlor epoxide	0.60	0.62	1.1	1.1	0.73	0.80
Methoxychlor	1.1	3.1	11	10	4.2	1.6

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/17/04	4/17/04	4/09/04	4/09/04	4/30/04	4/30/04
Chlordane (technical)	15	13	4.8	3.8	6.1	6.2

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/19/04	4/19/04	4/10/04	4/10/04	4/30/04	4/30/04
Toxaphene	25	18	29	12	36	15

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX100[0.5]	Batch#:	93346
Matrix:	Soil	Sampled:	07/30/04
Units:	ug/Kg	Received:	07/30/04
Diln Fac:	1.000	Prepared:	07/30/04

Type:	SAMPLE	Moisture:	2%
Lab ID:	173741-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	Analyzed
Aroclor-1016	ND	12	08/02/04
Aroclor-1221	ND	24	08/02/04
Aroclor-1232	ND	12	08/02/04
Aroclor-1242	ND	12	08/02/04
Aroclor-1248	ND	12	08/02/04
Aroclor-1254	39	12	07/31/04
Aroclor-1260	ND	12	08/02/04

Surrogate	%REC	Limits	Analyzed
TCMX	135	65-135	07/31/04
Decachlorobiphenyl	110	65-135	07/31/04

Type:	BLANK	Analyzed:	07/31/04
Lab ID:	QC259618	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	125	65-135
Decachlorobiphenyl	123	65-135

ND= Not Detected
RL= Reporting Limit

9.1

00036

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC259619	Batch#:	93346
Matrix:	Soil	Prepared:	07/30/04
Units:	ug/Kg	Analyzed:	08/04/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	169.4	168.0	99	80-129
Aroclor-1260	169.4	193.6	114	80-131

Surrogate	%REC	Limits
TCMX	135	65-135
Decachlorobiphenyl	120	65-135

10.1

00037

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	93346
MSS Lab ID:	173688-015	Sampled:	07/28/04
Matrix:	Soil	Received:	07/28/04
Units:	ug/Kg	Prepared:	07/30/04
Basis:	dry	Analyzed:	08/04/04
Diln Fac:	1.000		

Type: MS Moisture: 1%
Lab ID: QC259620 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<4.040	168.6	164.1	97	65-155
Aroclor-1260	<4.040	168.6	173.7	103	63-127

Surrogate	%REC	Limits
TCMX	126	65-135
Decachlorobiphenyl	104	65-135

Type: MSD Moisture: 1%
Lab ID: QC259621 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	169.9	159.9	94	65-155	3	27
Aroclor-1260	169.9	176.3	104	63-127	1	34

Surrogate	%REC	Limits
TCMX	122	65-135
Decachlorobiphenyl	103	65-135

RPD= Relative Percent Difference

12.0

00038

INITIAL CALIBRATION REPORT FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204300202001 Name: Type: (normal) Date: 26-JUL-2004 22:42 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	208_015	204300202015	pcb10_2	26-JUL-2004 22:42	04WS0970
2	208_016	204300202016	pcb25_5	26-JUL-2004 23:15	04WS0960
3	208_017	204300202017	pcb100_20	26-JUL-2004 23:48	04WS0961
4	208_018	204300202018	pcb250_50	27-JUL-2004 00:21	04WS0962
5	208_019	204300202019	pcb500_100	27-JUL-2004 00:54	04WS0963
6	208_020	204300202020	pcb750_150	27-JUL-2004 01:28	04WS0964
7	208_021	204300202021	pcb1K_200	27-JUL-2004 02:01	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	227.63	225.65	233.71	223.10	188.34	178.05	186.98	AVRG	R		0.004783		pg	209.06	11	.99	20	
Aroclor-1016 Peak # 2	A	459.52	465.47	489.92	431.34	370.03	358.71	367.34	AVRG	R		0.002379		pg	420.33	13	.99	20	
Aroclor-1016 Peak # 3	A	470.02	483.04	513.49	472.04	416.02	410.56	427.25	AVRG	R		0.002193		pg	456.06	8	.99	20	
Aroclor-1016 Peak # 4	A	280.17	284.83	323.72	298.81	272.46	266.71	280.17	AVRG	R		0.003488		pg	286.70	7	.99	20	
Aroclor-1016 Peak # 5	A	268.30	277.85	296.17	262.85	233.76	223.39	238.38	AVRG	R		0.003887		pg	257.24	10	.99	20	
Aroclor-1260 Peak # 1	A	563.76	538.12	571.55	491.40	424.93	412.98	420.79	AVRG	R		0.002045		pg	489.08	14	.99	20	
Aroclor-1260 Peak # 2	A	844.03	861.96	899.73	765.87	669.78	656.79	672.07	AVRG	R		0.001303		pg	767.18	13	.99	20	
Aroclor-1260 Peak # 3	A	415.67	380.99	474.30	398.16	357.37	342.72	358.32	AVRG	R		0.002566		pg	389.65	12	.99	20	
Aroclor-1260 Peak # 4	A	381.15	360.84	454.40	384.72	348.84	347.01	364.05	AVRG	R		0.002651		pg	377.29	10	.99	20	
Aroclor-1260 Peak # 5	A	766.81	806.70	978.34	848.23	778.82	768.83	788.86	AVRG	R		0.001220		pg	819.51	9	.99	20	
TCMX	A	9214.3	9366.4	9893.1	9136.1	8140.4	8142.4	8437.9	AVRG	R		1.123E-4		pg	8904.4	8	.99	20	
Decachlorobiphenyl	A	11681	10082	11102	8891.8	7718.4	7349.9	7388.2	AVRG	R		1.090E-4		pg	9173.4	20	.99	20	
Aroclor-1016 Peak # 1	B	275.83	266.99	285.52	250.88	218.84	219.49	223.87	AVRG	R		0.004020		pg	248.77	11	.99	20	
Aroclor-1016 Peak # 2	B	368.59	372.45	367.18	331.27	293.32	288.53	303.90	AVRG	R		0.003010		pg	332.18	11	.99	20	
Aroclor-1016 Peak # 3	B	1263.7	1287.5	1285.1	1148.0	989.86	945.04	978.98	AVRG	R		8.863E-4		pg	1128.3	14	.99	20	
Aroclor-1016 Peak # 4	B	560.34	518.67	523.04	472.60	416.75	396.04	414.28	AVRG	R		0.002120		pg	471.67	14	.99	20	
Aroclor-1016 Peak # 5	B	329.43	338.50	362.36	334.83	286.73	281.05	289.44	AVRG	R		0.003150		pg	317.48	10	.99	20	
Aroclor-1260 Peak # 1	B	820.91	782.66	917.17	845.80	748.57	732.60	734.00	AVRG	R		0.001254		pg	797.39	9	.99	20	
Aroclor-1260 Peak # 2	B	1301.1	1301.0	1413.1	1189.1	1075.5	1058.0	1072.3	AVRG	R		8.323E-4		pg	1201.4	12	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204300202001 Name: Type: (normal) Date: 26-JUL-2004 22:42 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	1192.6	790.58	942.20	840.49	772.88	776.17	793.19	AVRG	R		0.001146		pg	872.58	18	.99	20	
Aroclor-1260 Peak # 4	B	773.77	695.69	770.38	657.43	614.01	619.47	634.09	AVRG	R		0.001469		pg	680.69	10	.99	20	
Aroclor-1260 Peak # 5	B	1661.4	1702.3	1902.7	1595.2	1564.1	1577.3	1558.2	AVRG	R		6.055E-4		pg	1651.6	7	.99	20	
TCMX	B	10751	11228	12431	11424	9983.4	9952.7	10187	AVRG	R		9.216E-5		pg	10851	8	.99	20	
Decachlorobiphenyl	B	13357	11974	13947	11640	10244	9949.1	9988.7	AVRG	R		8.631E-5		pg	11586	14	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204306083001 Name: Type: (normal) Date: 30-JUL-2004 18:01 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	212_005	204306083005	ar1254	30-JUL-2004 18:01	04WS0546

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	380.07	AVRG	R		0.002631		pg	380.07	0	.99	20	
Aroclor-1254 Peak # 2	A	685.67	AVRG	R		0.001458		pg	685.67	0	.99	20	
Aroclor-1254 Peak # 3	A	679.17	AVRG	R		0.001472		pg	679.17	0	.99	20	
Aroclor-1254 Peak # 4	A	493.02	AVRG	R		0.002028		pg	493.02	0	.99	20	
Aroclor-1254 Peak # 5	A	657.00	AVRG	R		0.001522		pg	657.00	0	.99	20	
Aroclor-1254 Peak # 1	B	666.38	AVRG	R		0.001501		pg	666.38	0	.99	20	
Aroclor-1254 Peak # 2	B	1018.0	AVRG	R		9.824E-4		pg	1018.0	0	.99	20	
Aroclor-1254 Peak # 3	B	1080.3	AVRG	R		9.257E-4		pg	1080.3	0	.99	20	
Aroclor-1254 Peak # 4	B	703.54	AVRG	R		0.001421		pg	703.54	0	.99	20	
Aroclor-1254 Peak # 5	B	1090.8	AVRG	R		9.168E-4		pg	1090.8	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	215_013	204310220013	pcb10_2	02-AUG-2004 21:40	04WS0970
2	215_014	204310220014	pcb25_5	02-AUG-2004 22:13	04WS0960
3	215_015	204310220015	pcb100_20	02-AUG-2004 22:46	04WS0961
4	215_016	204310220016	pcb250_50	02-AUG-2004 23:19	04WS0962
5	215_017	204310220017	pcb500_100	02-AUG-2004 23:52	04WS0963
6	215_018	204310220018	pcb750_150	03-AUG-2004 00:25	04WS0964
7	215_019	204310220019	pcb1K_200	03-AUG-2004 00:59	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	222.19	249.72	232.92	240.39	205.76	174.68	193.06	AVRG	R		0.004609		pg	216.96	12	.99	20	
Aroclor-1016 Peak # 2	A	562.53	501.92	460.15	463.25	377.78	318.34	349.18	AVRG	R		0.002308		pg	433.31	20	.99	20	
Aroclor-1016 Peak # 3	A	484.79	515.26	522.06	533.70	436.50	367.63	418.20	AVRG	R		0.002135		pg	468.31	13	.99	20	
Aroclor-1016 Peak # 4	A	311.49	350.77	348.34	364.70	297.87	262.44	298.62	AVRG	R		0.003133		pg	319.17	11	.99	20	
Aroclor-1016 Peak # 5	A	272.20	286.48	281.40	288.62	237.23	198.13	226.63	AVRG	R		0.003909		pg	255.81	14	.99	20	
Aroclor-1260 Peak # 1	A	534.49	557.25	558.61	543.99	422.20	344.29	396.21	AVRG	R		0.002085		pg	479.58	19	.99	20	
Aroclor-1260 Peak # 2	A	904.42	888.70	849.86	860.45	672.00	546.32	638.04	AVRG	R		0.001306		pg	765.68	19	.99	20	
Aroclor-1260 Peak # 3	A	480.31	419.58	458.34	454.57	367.56	297.31	349.09	AVRG	R		0.002476		pg	403.82	17	.99	20	
Aroclor-1260 Peak # 4	A	363.33	365.28	397.28	433.25	344.26	284.33	341.69	AVRG	R		0.002767		pg	361.35	13	.99	20	
Aroclor-1260 Peak # 5	A	868.22	928.30	936.04	985.95	789.30	648.83	768.31	AVRG	R		0.001181		pg	846.42	14	.99	20	
TCMX	A	9152.2	9977.5	9263.6	9902.9	8412.0	7286.0	8156.7	AVRG	R		1.126E-4		pg	8878.7	11	.99	20	
Decachlorobiphenyl	A	10877	10709	9872.1	12832	7437.8			AVRG	R		9.666E-5		pg	10346	19	.99	20	
Aroclor-1016 Peak # 1	B	242.83	242.17	239.76	258.59	221.85	183.59	206.89	AVRG	R		0.004387		pg	227.95	11	.99	20	
Aroclor-1016 Peak # 2	B	301.07	317.39	329.13	342.65	279.81	238.92	270.55	AVRG	R		0.003366		pg	297.07	12	.99	20	
Aroclor-1016 Peak # 3	B	1225.7	1232.9	1179.3	1198.8	944.96	806.07	890.17	AVRG	R		9.361E-4		pg	1068.3	17	.99	20	
Aroclor-1016 Peak # 4	B	465.77	502.61	466.00	483.84	385.83	333.37	369.79	AVRG	R		0.002328		pg	429.60	15	.99	20	
Aroclor-1016 Peak # 5	B	322.46	326.55	314.99	326.70	268.97	229.90	262.36	AVRG	R		0.003411		pg	293.13	13	.99	20	
Aroclor-1260 Peak # 1	B	804.92	843.20	864.53	921.86	729.59	623.19	723.59	AVRG	R		0.001270		pg	787.27	13	.99	20	
Aroclor-1260 Peak # 2	B	1254.5	1305.5	1297.8	1345.0	1066.2	886.63	1041.3	AVRG	R		8.540E-4		pg	1171.0	15	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

042

INITIAL CALIBRATION REPORT FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	836.14	872.35	845.26	901.05	740.38	622.22	753.05	AVRG	R		0.001257		pg	795.78	12	.99	20	
Aroclor-1260 Peak # 4	B	708.28	658.49	677.16	709.83	592.01	499.26	605.88	AVRG	R		0.001573		pg	635.85	12	.99	20	
Aroclor-1260 Peak # 5	B	1689.9	1627.7	1611.2	1813.1	1468.9	1232.9	1501.8	AVRG	R		6.395E-4		pg	1563.6	12	.99	20	
TCMX	B	10333	11533	11102	11785	9884.1	8500.3	9395.7	AVRG	R		9.651E-5		pg	10362	12	.99	20	
Decachlorobiphenyl	B	12402	11918	11586	15972	9357.4			AVRG	R		8.165E-5		pg	12247	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254304934001 Name: Type: (normal) Date: 29-JUL-2004 18:14 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	211_005	254304934005	pcb10_2	29-JUL-2004 18:14	04WS0970
2	211_006	254304934006	pcb25_5	29-JUL-2004 18:42	04WS0960
3	211_007	254304934007	pcb100_20	29-JUL-2004 19:10	04WS0961
4	211_008	254304934008	pcb250_50	29-JUL-2004 19:39	04WS0962
5	211_009	254304934009	pcb500_100	29-JUL-2004 20:07	04WS0963
6	211_011	254304934011	pcb1K200	29-JUL-2004 21:04	04WS0967
7	211_017	254304934017	pcb750_150	30-JUL-2004 12:51	04WS0964

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	292.55	278.51	295.02	282.27	308.69	314.52	285.01	AVRG	R		0.003404		pg	293.80	5	.99	20	
Aroclor-1016 Peak # 2	A	742.30	717.64	681.30	654.37	668.93	670.47	645.96	AVRG	R		0.001464		pg	683.00	5	.99	20	
Aroclor-1016 Peak # 3	A	802.56	846.04	854.62	880.61	932.48	1032.2	973.82	AVRG	R		0.001107		pg	903.19	9	.99	20	
Aroclor-1016 Peak # 4	A	507.72	577.66	478.79	535.03	494.51	512.04	557.55	AVRG	R		0.001911		pg	523.33	7	.99	20	
Aroclor-1016 Peak # 5	A	396.32	378.18	378.71	363.16	388.57	402.87	385.21	AVRG	R		0.002599		pg	384.72	3	.99	20	
Aroclor-1260 Peak # 1	A	854.50	782.64	729.07	662.20	690.45	804.28	681.77	AVRG	R		0.001345		pg	743.56	10	.99	20	
Aroclor-1260 Peak # 2	A	1139.6	1043.2	1001.8	965.97	1028.7	1310.5	1063.5	AVRG	R		9.267E-4		pg	1079.1	11	.99	20	
Aroclor-1260 Peak # 3	A	628.17	594.47	556.15	529.26	538.94	599.39	512.53	AVRG	R		0.001768		pg	565.56	8	.99	20	
Aroclor-1260 Peak # 4	A	676.75	602.87	549.15	535.51	554.39	637.28	532.00	AVRG	R		0.001712		pg	583.99	10	.99	20	
Aroclor-1260 Peak # 5	A	1670.8	1540.7	1301.9	1284.4	1370.1	2009.9	1508.0	AVRG	R		6.551E-4		pg	1526.5	17	.99	20	
TCMX	A	22280	21913	20983	23299	33010	26979	30374	AVRG	R		3.914E-5		pg	25548	18	.99	20	
Decachlorobiphenyl	A	12975	11006	10154	15423	14252	13112	14114	AVRG	R		7.689E-5		pg	13005	14	.99	20	
Aroclor-1016 Peak # 1	B	326.92	317.09	297.49	333.56	298.51	356.84	291.81	AVRG	R		0.003150		pg	317.46	7	.99	20	
Aroclor-1016 Peak # 2	B	506.88	467.84	435.73	476.74	424.95	483.29	375.81	AVRG	R		0.002207		pg	453.03	10	.99	20	
Aroclor-1016 Peak # 3	B	557.30	511.14	487.77	582.71	505.09	599.60	431.23	AVRG	R		0.001905		pg	524.98	11	.99	20	
Aroclor-1016 Peak # 4	B	386.58	371.88	343.44	369.05	330.61	396.78	281.10	AVRG	R		0.002823		pg	354.20	11	.99	20	
Aroclor-1016 Peak # 5	B	433.35	396.33	380.59	433.07	390.73	475.23	326.48	AVRG	R		0.002468		pg	405.11	12	.99	20	
Aroclor-1260 Peak # 1	B	606.30	600.88	602.06	658.09	583.01	785.77	471.36	AVRG	R		0.001625		pg	615.35	15	.99	20	
Aroclor-1260 Peak # 2	B	494.62	500.02	546.54	618.16	573.50		461.84	AVRG	R		0.001878		pg	532.45	11	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254304934001 Name: Type: (normal) Date: 29-JUL-2004 18:14 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	317.25	339.17	407.23	455.97	406.08	519.62	319.29	AVRG	R		0.002532		pg	394.94	19	.99	20	
Aroclor-1260 Peak # 4	B	325.69	333.74	416.62	448.53	396.73	509.07	309.58	AVRG	R		0.002555		pg	391.42	19	.99	20	
Aroclor-1260 Peak # 5	B	1040.8	1050.7	1195.7	1197.2	1044.6	1461.0	794.36	AVRG	R		8.992E-4		pg	1112.1	18	.99	20	
TCMX	B	22344	20500	18808	23887	26346	24423	25869	AVRG	R		4.316E-5		pg	23168	12	.99	20	
Decachlorobiphenyl	B	9846.5	10002	8807.3	11384	7717.8	11075	6457.5	AVRG	R		1.072E-4		pg	9327.1	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

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CONTINUING CALIBRATION SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004			250.00	269.10	pg	8	15	
GC06	B	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004			250.00	243.09	pg	-3	15	
GC06	A	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004			500.00	459.61	pg	-8	15	
GC06	B	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004			500.00	404.43	pg	-19	15	c- *** Ch. A used
GC06	A	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004			250.00	261.33	pg	5	15	
GC06	B	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004			250.00	230.85	pg	-8	15	
GC06	A	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004			250.00	231.90	pg	-7	15	
GC06	B	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004			250.00	236.99	pg	-5	15	
GC06	A	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004			500.00	483.77	pg	-3	15	
GC06	B	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004			500.00	472.91	pg	-5	15	
GC06	A	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004			250.00	222.68	pg	-11	15	
GC06	B	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004			250.00	212.63	pg	-15	15	
GC06	A	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004			500.00	530.16	pg	6	15	
GC06	B	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004			500.00	531.94	pg	6	15	
GC22	A	254310347002	02-AUG-2004 12:27	254304934001	29-JUL-2004			250.00	245.12	pg	-2	15	
GC22	B	254310347002	02-AUG-2004 12:27	254304934001	29-JUL-2004			250.00	243.24	pg	-3	15	
GC22	A	254310347010	02-AUG-2004 16:37	254304934001	29-JUL-2004			500.00	438.73	pg	-12	15	
GC22	B	254310347010	02-AUG-2004 16:37	254304934001	29-JUL-2004			500.00	539.28	pg	8	15	

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CONTINUING CALIBRATION SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204306083037	31-JUL-2004 12:17	204306083001	30-JUL-2004			250.00	267.33	pg	7	15	
GC06	B	204306083037	31-JUL-2004 12:17	204306083001	30-JUL-2004			250.00	262.05	pg	5	15	
GC06	A	204306083052	31-JUL-2004 20:35	204306083001	30-JUL-2004			250.00	205.63	pg	-18	15	c- *** Ch. B used
GC06	B	204306083052	31-JUL-2004 20:35	204306083001	30-JUL-2004			250.00	215.07	pg	-14	15	

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CONTINUING CALIBRATION SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004			250.00	259.76	pg	4	15	
GC06	B	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004			250.00	257.44	pg	3	15	
GC06	A	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004			500.00	426.10	pg	-15	15	
GC06	B	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004			500.00	418.47	pg	-16	15	c- *** Ch. A used
GC06	A	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004			250.00	235.86	pg	-6	15	
GC06	B	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004			250.00	226.37	pg	-9	15	
GC06	A	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004			250.00	237.73	pg	-5	15	
GC06	B	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004			250.00	234.77	pg	-6	15	
GC06	A	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004			500.00	488.90	pg	-2	15	
GC06	B	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004			500.00	488.95	pg	-2	15	
GC06	A	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004			250.00	220.19	pg	-12	15	
GC06	B	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004			250.00	214.38	pg	-14	15	
GC06	A	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004			500.00	540.75	pg	8	15	
GC06	B	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004			500.00	542.78	pg	9	15	
GC22	A	254310347002	02-AUG-2004 12:27	254304934001	29-JUL-2004			250.00	211.00	pg	-16	15	c- *** Ch B used
GC22	B	254310347002	02-AUG-2004 12:27	254304934001	29-JUL-2004			250.00	264.58	pg	6	15	
GC22	A	254310347010	02-AUG-2004 16:37	254304934001	29-JUL-2004			500.00	430.07	pg	-14	15	
GC22	B	254310347010	02-AUG-2004 16:37	254304934001	29-JUL-2004			500.00	564.14	pg	13	15	

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-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	RF/CF	Avg RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004	8904.4	9214.2	50.000	51.740	pg	3	15	
GC06	B	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004	10851	10975	50.000	50.570	pg	1	15	
GC06	A	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004	8904.4	7946.3	100.00	89.241	pg	-11	15	
GC06	B	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004	10851	9199.1	100.00	84.778	pg	-15	15	
GC06	A	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004	8904.4	8973.8	50.000	50.390	pg	1	15	
GC06	B	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004	10851	10447	50.000	48.138	pg	-4	15	
GC06	A	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004	8878.7	8688.6	50.000	48.930	pg	-2	15	
GC06	B	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004	10362	10304	50.000	49.720	pg	-1	15	
GC06	A	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004	8878.7	8986.2	100.00	101.21	pg	1	15	
GC06	B	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004	10362	10246	100.00	98.877	pg	-1	15	
GC06	A	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004	8878.7	8080.3	50.000	45.504	pg	-9	15	
GC06	B	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004	10362	9352.5	50.000	45.129	pg	-10	15	
GC06	A	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004	8878.7	10079	100.00	113.52	pg	14	15	
GC06	B	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004	10362	11352	100.00	109.56	pg	10	15	

CONTINUING CALIBRATION SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004	9173.4	11980	50.000	65.295	pg	31	15	c+
GC06	B	204306083035	31-JUL-2004 11:11	204300202001	26-JUL-2004	11586	15054	50.000	64.970	pg	30	15	c+
GC06	A	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004	9173.4	6990.8	100.00	76.207	pg	-24	15	c-
GC06	B	204306083050	31-JUL-2004 19:29	204300202001	26-JUL-2004	11586	8679.5	100.00	74.916	pg	-25	15	c-
GC06	A	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004	9173.4	10906	50.000	59.441	pg	19	15	c+
GC06	B	204306083066	01-AUG-2004 04:20	204300202001	26-JUL-2004	11586	13247	50.000	57.168	pg	14	15	
GC06	A	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004	10346	11378	50.000	54.990	pg	10	15	
GC06	B	204311979007	03-AUG-2004 17:28	204310220001	02-AUG-2004	12247	13982	50.000	57.083	pg	14	15	
GC06	A	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004	10346	8106.4	100.00	78.356	pg	-22	15	c-
GC06	B	204311979025	04-AUG-2004 03:25	204310220001	02-AUG-2004	12247	9828.3	100.00	80.250	pg	-20	15	c-
GC06	A	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004	10346	10432	50.000	50.416	pg	1	15	
GC06	B	204311979043	04-AUG-2004 13:46	204310220001	02-AUG-2004	12247	12244	50.000	49.989	pg	0	15	
GC06	A	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004	10346	8818.9	100.00	85.244	pg	-15	15	
GC06	B	204311979058	04-AUG-2004 23:34	204310220001	02-AUG-2004	12247	10414	100.00	85.035	pg	-15	15	

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SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204310220 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
002	215_002	X	ccv			02-AUG-2004 10:20	1.0						1	
003	215_003	CCV	pcb250_50			02-AUG-2004 10:53	1.0			1			1	
012	215_012	X	hex			02-AUG-2004 21:06	1.0							
013	215_013	ICAL	pcb10_2			02-AUG-2004 21:40	1.0						2	
014	215_014	ICAL	pcb25_5			02-AUG-2004 22:13	1.0						3	
015	215_015	ICAL	pcb100_20			02-AUG-2004 22:46	1.0						4	
016	215_016	ICAL	pcb250_50			02-AUG-2004 23:19	1.0						1	
017	215_017	ICAL	pcb500_100			02-AUG-2004 23:52	1.0						5	
018	215_018	ICAL	pcb750_150			03-AUG-2004 00:25	1.0						6	
019	215_019	ICAL	pcb1K_200			03-AUG-2004 00:59	1.0						7	
021	215_021	ICV	accu_1660			03-AUG-2004 02:05	1.0			1			8	
022	215_022	X	icv			03-AUG-2004 02:38	1.0						8	
023	215_023	X	icv			03-AUG-2004 03:11	1.0						9	
026	215_026	ICAL	pcb250_50			03-AUG-2004 12:25	1.0						1	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204300202 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 26-JUL-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
002	208_002	CCV	pcb250_50			26-JUL-2004 11:22	1.0					1	
003	208_003	X	ccv			26-JUL-2004 11:56	1.0					1	
004	208_004	X	ccv			26-JUL-2004 12:34	1.0					1	
006	208_006	X	primer			26-JUL-2004 16:52	1.0						
008	208_008	X	primer			26-JUL-2004 17:59	1.0						
014	208_014	X	hex			26-JUL-2004 22:09	1.0						
015	208_015	ICAL	pcb10_2			26-JUL-2004 22:42	1.0					2	
016	208_016	ICAL	pcb25_5			26-JUL-2004 23:15	1.0					3	
017	208_017	ICAL	pcb100_20			26-JUL-2004 23:48	1.0					4	
018	208_018	ICAL	pcb250_50			27-JUL-2004 00:21	1.0					1	
019	208_019	ICAL	pcb500_100			27-JUL-2004 00:54	1.0					5	
020	208_020	ICAL	pcb750_150			27-JUL-2004 01:28	1.0					6	
021	208_021	ICAL	pcb1K_200			27-JUL-2004 02:01	1.0					7	
023	208_023	X	accu_1660			27-JUL-2004 03:07	1.0		1			8	
024	208_024	ICV	icv			27-JUL-2004 03:40	1.0		1			8	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254304934 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 29-JUL-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
004	211_004	X	hex			29-JUL-2004 17:45	1.0						
005	211_005	ICAL	pcb10_2			29-JUL-2004 18:14	1.0					1	
006	211_006	ICAL	pcb25_5			29-JUL-2004 18:42	1.0					2	
007	211_007	ICAL	pcb100_20			29-JUL-2004 19:10	1.0					3	
008	211_008	ICAL	pcb250_50			29-JUL-2004 19:39	1.0					4	
009	211_009	ICAL	pcb500_100			29-JUL-2004 20:07	1.0					5	
010	211_010	X	pcb750_150			29-JUL-2004 20:35	1.0					6	
011	211_011	ICAL	pcb1K200			29-JUL-2004 21:04	1.0					7	
012	211_012	X	hexane			29-JUL-2004 21:32	1.0						
017	211_017	ICAL	pcb750_150			30-JUL-2004 12:51	1.0					6	
019	211_019	X	ccv			30-JUL-2004 13:48	1.0					8	
020	211_020	X	ccv			30-JUL-2004 14:16	1.0		1			8	
021	211_021	ICV	accu_1660			30-JUL-2004 14:44	1.0		1			9	
022	211_022	X	hex			30-JUL-2004 15:13	1.0						

Stds used: 1=04WS0970 2=04WS0960 3=04WS0961 4=04WS0962 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204306083 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-JUL-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	212_002	X	pcb250_50			30-JUL-2004 13:23	1.0					1	
003	212_003	CCV	pcb250_50			30-JUL-2004 13:56	1.0	1.0			1	1	
004	212_004	X	ccv			30-JUL-2004 17:28	1.0					2	
005	212_005	CCV	ar1254			30-JUL-2004 18:01	1.0	1.0			1	2	
007	212_007	BLANK	QC259509	93318	Soil	30-JUL-2004 19:42	1.0	0.8443		2	1		
008	212_008	LCS	QC259510	93318	Soil	30-JUL-2004 20:15	1.0	0.8389		3	1		
009	212_009	MS	QC259511	93318	Soil	30-JUL-2004 20:48	1.0	0.8273			1		
010	212_010	MSD	QC259512	93318	Soil	30-JUL-2004 21:21	1.0	0.8361			1		
011	212_011	SAMPLE	173651-001	93318	Soil	30-JUL-2004 21:54	1.0	0.8372			1		
012	212_012	SAMPLE	173651-002	93318	Soil	30-JUL-2004 22:28	1.0	0.8392			1		
013	212_013	X	173688-001	93318	Soil	30-JUL-2004 23:01	1.0	0.8381			1	spk	
014	212_014	SAMPLE	173688-002	93318	Soil	30-JUL-2004 23:34	1.0	0.8232			1	spk	
015	212_015	SAMPLE	173688-003	93318	Soil	31-JUL-2004 00:07	1.0	0.8314		2	1	spk	
016	212_016	SAMPLE	173688-004	93318	Soil	31-JUL-2004 00:40	1.0	0.8237		2	1	spk	
018	212_018	CCV	pcb500_100			31-JUL-2004 01:47	1.0	1.0			1	3	
019	212_019	X	ccv			31-JUL-2004 02:20	1.0					3	
020	212_020	X	ccv			31-JUL-2004 02:53	1.0					4	
021	212_021	X	ccv			31-JUL-2004 03:26	1.0					2	
022	212_022	CCV	ar1254			31-JUL-2004 04:00	1.0	1.0			1	2	
024	212_024	SAMPLE	173688-005	93318	Soil	31-JUL-2004 05:06	1.0	0.8364		2	1	spk	
025	212_025	SAMPLE	173688-006	93318	Soil	31-JUL-2004 05:39	1.0	0.8398		2	1	spk	
026	212_026	SAMPLE	173688-007	93318	Soil	31-JUL-2004 06:12	1.0	0.8273		2	1	spk	
027	212_027	SAMPLE	173688-008	93318	Soil	31-JUL-2004 06:45	1.0	0.8245		2	1	spk	
028	212_028	SAMPLE	173688-009	93318	Soil	31-JUL-2004 07:19	1.0	0.8398		2	1	spk	
029	212_029	SAMPLE	173688-010	93318	Soil	31-JUL-2004 07:52	1.0	0.8437		2	1	spk	
030	212_030	SAMPLE	173688-011	93318	Soil	31-JUL-2004 08:25	1.0	0.8243		2	1	spk	
031	212_031	SAMPLE	173688-012	93318	Soil	31-JUL-2004 08:58	1.0	0.8289		2	1	spk	
032	212_032	SAMPLE	173688-013	93318	Soil	31-JUL-2004 09:31	1.0	0.8401		2	1	spk	
033	212_033	SAMPLE	173688-014	93318	Soil	31-JUL-2004 10:05	1.0	0.8415		2	1	spk	
035	212_035	CCV	pcb250_50			31-JUL-2004 11:11	1.0	1.0			1	1	

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963 4=04WS1424
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204306083 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-JUL-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	212_036	X	ccv			31-JUL-2004 11:44	1.0					1	
037	212_037	CCV	ar1254			31-JUL-2004 12:17	1.0	1.0			1	2	
038	212_038	X	ccv			31-JUL-2004 12:50	1.0					2	
040	212_040	SAMPLE	173688-020	93318	Soil	31-JUL-2004 13:57	1.0	0.8403	2		1	spk	
041	212_041	SAMPLE	173688-025	93318	Soil	31-JUL-2004 14:30	1.0	0.8339	2	2	1	spk	
042	212_042	SAMPLE	173688-030	93318	Soil	31-JUL-2004 15:03	1.0	0.8353	2	3	1	spk	
043	212_043	SAMPLE	173688-035	93318	Soil	31-JUL-2004 15:36	1.0	0.8262	2		1	spk	
044	212_044	MSS	173688-015	93346	Soil	31-JUL-2004 16:09	1.0	0.8364	2	2	1		
045	212_045	SAMPLE	173688-040	93346	Soil	31-JUL-2004 16:43	1.0	0.827	2	2	1		
046	212_046	SAMPLE	173688-045	93346	Soil	31-JUL-2004 17:16	1.0	0.8381	2		1		
047	212_047	SAMPLE	173688-050	93346	Soil	31-JUL-2004 17:49	1.0	0.8224	2	1	1		
048	212_048	SAMPLE SS	173741-001 1254	93346	Soil	31-JUL-2004 18:22	1.0	0.8331	3	1	1		
050	212_050	CCV	pcb500_100 1016 B ↓			31-JUL-2004 19:29	1.0	1.0	2		1	3	
051	212_051	X	ccv 1260 B ↓			31-JUL-2004 20:02	1.0					3	
052	212_052	CCV	ar1254 A ↓			31-JUL-2004 20:35	1.0	1.0	1		1	2	
053	212_053	X	ccv			31-JUL-2004 21:08	1.0					2	
055	212_055	BLANK	QC259618	93346	Soil	31-JUL-2004 22:15	1.0	0.8403	2		1		
056	212_056	LCS	QC259619	93346	Soil	31-JUL-2004 22:48	1.0	0.8472	2	2	1		
057	212_057	MS	QC259620	93346	Soil	31-JUL-2004 23:21	1.0	0.8344	2		1		
058	212_058	MSD	QC259621	93346	Soil	31-JUL-2004 23:54	1.0	0.8412	2	3	1		
059	212_059	SAMPLE	173694-001	93346	Soil	01-AUG-2004 00:28	1.0	0.8264	2		1		
060	212_060	SAMPLE	173694-002	93346	Soil	01-AUG-2004 01:01	1.0	0.8292	2		1		
061	212_061	SAMPLE	173694-003	93346	Soil	01-AUG-2004 01:34	1.0	0.8216	2		1		
062	212_062	SAMPLE	173694-004	93346	Soil	01-AUG-2004 02:07	1.0	0.8415	2		1		
063	212_063	SAMPLE	173694-005	93346	Soil	01-AUG-2004 02:41	1.0	0.8226	2		1		
064	212_064	SAMPLE	173694-006	93346	Soil	01-AUG-2004 03:14	1.0	0.8317	2		1		
066	212_066	CCV	pcb250_50			01-AUG-2004 04:20	1.0	1.0			1	1	
067	212_067	X	ccv			01-AUG-2004 04:54	1.0					1	
071	212_071	SAMPLE	173694-007	93346	Soil	01-AUG-2004 07:07	1.0	0.8358			1		
072	212_072	SAMPLE	173694-008	93346	Soil	01-AUG-2004 07:40	1.0	0.8284		2	1		

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963 4=04WS1424
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204306083 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-JUL-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
073	212_073	SAMPLE	173711-001	93346	Soil	01-AUG-2004 08:13	1.0	0.8403			1		
074	212_074	SAMPLE	173711-002	93346	Soil	01-AUG-2004 08:47	1.0	0.8199			1		
075	212_075	SAMPLE	173711-003	93346	Soil	01-AUG-2004 09:20	1.0	0.8207			1		
076	212_076	SAMPLE	173727-001	93346	Soil	01-AUG-2004 09:53	1.0	0.8248	2		1		4:PCB126=2946.19
077	212_077	SAMPLE	173728-001	93346	Soil	01-AUG-2004 10:26	1.0						
079	212_079	CCV	pcb500_100			01-AUG-2004 11:33	1.0	1.0	4		1	3	
080	212_080	X	ccv			01-AUG-2004 12:06	1.0					3	

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963 4=04WS1424
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254310347 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	215_002	CCV	pcb250_50			02-AUG-2004 12:27	1.0	1.0			1	1	
003	215_003	X	ccv			02-AUG-2004 12:56	1.0					1	
005	215_005	LCS	QC259510	93318	Soil	02-AUG-2004 14:05	1.0	0.8389	1	4	1	spk	
006	215_006	LCS	QC259619	93346	Soil	02-AUG-2004 14:40	1.0	0.8472	1		1		
007	215_007	SAMPLE	173741-001	93346	Soil	02-AUG-2004 15:10	1.0	0.8331	1	1	1		
009	215_009	LCS	QC259510	93318	Soil	02-AUG-2004 16:09	1.0						
010	215_010	CCV	pcb500_100			02-AUG-2004 16:37	1.0	1.0			1	2	
011	215_011	X	ccv			02-AUG-2004 17:11	1.0					2	
012	215_012	X	ccv			02-AUG-2004 18:12	1.0	1.0			1	3	
013	215_013	CCV	ar1254			02-AUG-2004 18:41	1.0	1.0			1	3	
015	215_015	BLANK	QC259814	93396	Soil	02-AUG-2004 19:37	1.0	0.8452			1		
016	215_016	LCS	QC259815	93396	Soil	02-AUG-2004 20:06	1.0	0.827		2	1		
017	215_017	SAMPLE	173746-005	93396	Soil	02-AUG-2004 20:34	1.0	0.8254			1		
018	215_018	MSS	173746-010	93396	Soil	02-AUG-2004 21:02	1.0	0.8333		1	1		
019	215_019	SAMPLE	173746-015	93396	Soil	02-AUG-2004 21:31	1.0	0.8378			1		
020	215_020	MSS	173688-001	93318	Soil	02-AUG-2004 21:59	1.0	0.8381		3	1	spk	
021	215_021	SAMPLE	173688-002	93318	Soil	02-AUG-2004 22:27	1.0	0.8232			1	spk	
022	215_022	SAMPLE	173688-003	93318	Soil	02-AUG-2004 22:56	1.0	0.8314		1	1	spk	
023	215_023	SAMPLE	173688-004	93318	Soil	02-AUG-2004 23:24	1.0	0.8237		2	1	spk	
024	215_024	SAMPLE	173688-005	93318	Soil	02-AUG-2004 23:52	1.0	0.8364		1	1	spk	
026	215_026	CCV	pcb250_50			03-AUG-2004 00:49	1.0	1.0			1	1	
027	215_027	X	ccv			03-AUG-2004 01:17	1.0					1	
028	215_028	X	ccv			03-AUG-2004 01:46	1.0					3	
029	215_029	CCV	ar1254			03-AUG-2004 02:14	1.0	1.0			1	3	
031	215_031	SAMPLE	173688-006	93318	Soil	03-AUG-2004 03:10	1.0	0.8398			1	spk	
032	215_032	SAMPLE	173688-007	93318	Soil	03-AUG-2004 03:39	1.0	0.8273		2	1	spk	
033	215_033	SAMPLE	173688-008	93318	Soil	03-AUG-2004 04:07	1.0	0.8245			1	spk	
034	215_034	SAMPLE	173688-009	93318	Soil	03-AUG-2004 04:35	1.0	0.8398		1	1	spk	
035	215_035	SAMPLE	173688-010	93318	Soil	03-AUG-2004 05:04	1.0	0.8437			1	spk	
036	215_036	SAMPLE	173688-011	93318	Soil	03-AUG-2004 05:32	1.0	0.8243			1	spk	

Stds used: 1=04WS0962 2=04WS0963 3=04WS0546
Flags used: spk=5% spike rule

00057

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254310347 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
037	215_037	SAMPLE	173688-012	93318	Soil	03-AUG-2004 06:00	1.0	0.8289			1	spk	
038	215_038	SAMPLE	173688-013	93318	Soil	03-AUG-2004 06:29	1.0	0.8401			1	spk	
039	215_039	SAMPLE	173688-014	93318	Soil	03-AUG-2004 06:57	1.0	0.8415		1	1	spk	
040	215_040	SAMPLE	173688-020	93318	Soil	03-AUG-2004 07:25	1.0	0.8403			1	spk	
042	215_042	X	ccv			03-AUG-2004 08:22	1.0	1.0			1	2	2:PCB126=757.162
043	215_043	CCV	pcb500_100			03-AUG-2004 08:50	1.0	1.0			1	2	
044	215_044	CCV	ar1254			03-AUG-2004 09:19	1.0	1.0			1	3	
045	215_045	X	ccv			03-AUG-2004 09:47	1.0					3	
047	215_047	LCS	QC259510	93318	Soil	03-AUG-2004 10:43	1.0						
049	215_049	SAMPLE	173688-025	93318	Soil	03-AUG-2004 11:40	1.0						
050	215_050	SAMPLE	173688-030	93318	Soil	03-AUG-2004 12:08	1.0						
051	215_051	SAMPLE	173688-035	93318	Soil	03-AUG-2004 12:37	1.0						
052	215_052	SAMPLE	173688-040	93346	Soil	03-AUG-2004 13:05	1.0						
053	215_053	SAMPLE	173688-045	93346	Soil	03-AUG-2004 13:33	1.0						
054	215_054	SAMPLE	173688-050	93346	Soil	03-AUG-2004 14:02	1.0						
055	215_055	SAMPLE	173728-001	93346	Soil	03-AUG-2004 14:30	1.0						
057	215_057	X	ccv			03-AUG-2004 15:27	1.0					1	
058	215_058	CCV	pcb250_50			03-AUG-2004 15:55	1.0	1.0	2		1	1	

Stds used: 1=04WS0962 2=04WS0963 3=04WS0546
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
005	216_005	X	pcb250_50			03-AUG-2004 15:39	1.0					1	
006	216_006	X	ccv			03-AUG-2004 16:13	1.0					1	
007	216_007	CCV	ccv			03-AUG-2004 17:28	1.0	1.0			1	1	
009	216_009	CCV	ar1254			03-AUG-2004 18:34	1.0	1.0			1	2	
010	216_010	X	ccv			03-AUG-2004 19:07	1.0					2	
011	216_011	CCV	ar1232			03-AUG-2004 19:40	1.0	1.0			1	3	
012	216_012	X	ccv			03-AUG-2004 20:13	1.0					3	
014	216_014	BLANK	QC259712	93370	Water	03-AUG-2004 21:20	1.0	0.025			1		
015	216_015	BS	QC259713	93370	Water	03-AUG-2004 21:53	1.0	0.025			1		
016	216_016	BSD	QC259714	93370	Water	03-AUG-2004 22:26	1.0	0.025			1		
017	216_017	MS	QC259816	93396	Soil	03-AUG-2004 22:59	1.0	0.8273		1	1		
018	216_018	MSD	QC259817	93396	Soil	03-AUG-2004 23:33	1.0	0.8325			1		
019	216_019	MS	QC259620	93346	Soil	04-AUG-2004 00:06	1.0	0.8344			1		
020	216_020	MSD	QC259621	93346	Soil	04-AUG-2004 00:39	1.0	0.8412			1		
021	216_021	SAMPLE	173688-013	93318	Soil	04-AUG-2004 01:12	1.0	0.8401			1	spk	
022	216_022	SAMPLE	173701-001	93370	Water	04-AUG-2004 01:45	1.0	0.02404			1		
023	216_023	SAMPLE	173703-001	93370	Water	04-AUG-2004 02:19	1.0	0.02404			1		
025	216_025	CCV	pcb500_100			04-AUG-2004 03:25	1.0	1.0			1	4	
026	216_026	X	ccv			04-AUG-2004 03:58	1.0					4	
027	216_027	CCV	ar1254			04-AUG-2004 04:31	1.0	1.0			1	2	
028	216_028	X	ccv			04-AUG-2004 05:04	1.0					2	
029	216_029	CCV	ar1232			04-AUG-2004 05:38	1.0	1.0			1	3	
030	216_030	X	ccv			04-AUG-2004 06:11	1.0					3	
032	216_032	SAMPLE	173704-001	93370	Water	04-AUG-2004 07:17	1.0	0.02427			1		
033	216_033	SAMPLE	173724-001	93370	Water	04-AUG-2004 07:50	1.0	0.02451		4	1		
034	216_034	SAMPLE	173735-012	93370	Water	04-AUG-2004 08:23	1.0	0.02381			1		
035	216_035	SAMPLE	173735-013	93370	Water	04-AUG-2004 08:57	1.0	0.02381			1		
036	216_036	SAMPLE	173748-006	93370	Water	04-AUG-2004 09:30	1.0	0.02381			1		
037	216_037	SAMPLE	173752-001	93370	Water	04-AUG-2004 10:03	1.0	0.02381			1		
038	216_038	SAMPLE	173752-002	93370	Water	04-AUG-2004 10:36	1.0	0.02451			1		

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	216_039	MS	QC259816	93396	Soil	04-AUG-2004 11:33	1.0	0.8273			1		
040	216_040	MSD	QC259817	93396	Soil	04-AUG-2004 12:06	1.0	0.8325			1		
041	216_041	SAMPLE	173724-002	93396	Soil	04-AUG-2004 12:39	1.0	0.8331			1		
043	216_043	CCV	pcb250_50			04-AUG-2004 13:46	1.0	1.0			1	1	
048	216_048	SAMPLE	173724-001	93370	Water	04-AUG-2004 16:37	1.0	0.02451		3	1		
049	216_049	LCS	QC259619	93346	Soil	04-AUG-2004 18:35	1.0	0.8472			1		
050	216_050	SAMPLE	173728-001	93346	Soil	04-AUG-2004 19:09	1.0	0.835		1	1		
051	216_051	BLANK	QC260156	93482	Soil	04-AUG-2004 19:42	1.0	0.8378		2	1		
052	216_052	LCS	QC260157	93482	Soil	04-AUG-2004 20:15	1.0	0.8297		2	1		
053	216_053	MS	QC260158	93482	Soil	04-AUG-2004 20:48	1.0	0.8475		2	1		
054	216_054	MSD	QC260159	93482	Soil	04-AUG-2004 21:21	1.0	0.821		2	1		
055	216_055	MSS	173824-001	93482	Soil	04-AUG-2004 21:54	1.0	0.8317		2	1		
056	216_056	SAMPLE	173825-001	93482	Soil	04-AUG-2004 22:27	1.0	0.842		2	1		
058	216_058	CCV	pcb500_100			04-AUG-2004 23:34	1.0	1.0			1	4	
059	216_059	X	ccv			05-AUG-2004 00:07	1.0					4	
063	216_063	BLANK	QC259936	93426	Soil	05-AUG-2004 02:20	1.0	0.8289		2	1		
064	216_064	LCS	QC259937	93426	Soil	05-AUG-2004 02:53	1.0	0.8207		1	1		
065	216_065	MS	QC259938	93426	Soil	05-AUG-2004 03:26	1.0	0.8403		2	1		
066	216_066	MSD	QC259939	93426	Soil	05-AUG-2004 03:59	1.0	0.8437		2	1		
067	216_067	SAMPLE	173773-001	93426	Soil	05-AUG-2004 04:33	1.0	0.8443		2	1		
068	216_068	MSS	173773-002	93426	Soil	05-AUG-2004 05:06	1.0	0.8314		2	1		
069	216_069	SAMPLE	173773-003	93426	Soil	05-AUG-2004 05:39	1.0	0.8463		2	1		
070	216_070	SAMPLE	173773-004	93426	Soil	05-AUG-2004 06:12	1.0	0.8466		2	1		
071	216_071	SAMPLE	173773-005	93426	Soil	05-AUG-2004 06:46	1.0	0.8426		2	1		
073	216_073	CCV	pcb250_50			05-AUG-2004 07:52	1.0	1.0			1	1	
074	216_074	X	ccv			05-AUG-2004 08:25	1.0					1	
075	216_075	CCV	ar1254			05-AUG-2004 08:58	1.0					2	
076	216_076	X	ccv			05-AUG-2004 09:32	1.0					2	
080	216_080	SAMPLE	173762-001	93426	Soil	05-AUG-2004 11:45	1.0	0.8384		2	1		
081	216_081	SAMPLE	173762-002	93426	Soil	05-AUG-2004 12:18	1.0	0.8463			1		

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173741 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
082	216_082	SAMPLE	173762-003	93426	Soil	05-AUG-2004 12:51	1.0	0.8333		2	1		
083	216_083	LCS	QC259510	93318	Soil	05-AUG-2004 14:00	1.0	0.8389		6	1	spk	
084	216_084	SAMPLE	173718-017	93426	Soil	05-AUG-2004 14:33	5.0						
085	216_085	SAMPLE	173718-020	93426	Soil	05-AUG-2004 15:06	5.0						
087	216_087	CCV	pcb500_100			05-AUG-2004 16:13	1.0	1.0			1	4	
088	216_088	X	ccv			05-AUG-2004 16:46	1.0					4	
089	216_089	CCV	ar1254			05-AUG-2004 17:19	1.0					2	

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963
Flags used: spk=5% spike rule

Reporting Summary for 173741 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173741-001	Aroclor-1016	GC22	B	08/02/04 15:10
173741-001	Aroclor-1221	GC22	B	08/02/04 15:10
173741-001	Aroclor-1232	GC22	B	08/02/04 15:10
173741-001	Aroclor-1242	GC22	B	08/02/04 15:10
173741-001	Aroclor-1248	GC22	B	08/02/04 15:10
173741-001	Aroclor-1254	GC06	B	07/31/04 18:22
173741-001	Aroclor-1260	GC22	B	08/02/04 15:10
173741-001	TCMX	GC06	B	07/31/04 18:22
173741-001	Decachlorobiphenyl	GC06	B	07/31/04 18:22
QC259618	Aroclor-1016	GC06	A	07/31/04 22:15
QC259618	Aroclor-1221	GC06	A	07/31/04 22:15
QC259618	Aroclor-1232	GC06	A	07/31/04 22:15
QC259618	Aroclor-1242	GC06	A	07/31/04 22:15
QC259618	Aroclor-1248	GC06	A	07/31/04 22:15
QC259618	Aroclor-1254	GC06	A	07/31/04 22:15
QC259618	Aroclor-1260	GC06	A	07/31/04 22:15
QC259618	TCMX	GC06	A	07/31/04 22:15
QC259618	Decachlorobiphenyl	GC06	A	07/31/04 22:15
QC259619	Aroclor-1016	GC06	A	08/04/04 18:35
QC259619	Aroclor-1260	GC06	A	08/04/04 18:35
QC259619	TCMX	GC06	A	08/04/04 18:35
QC259619	Decachlorobiphenyl	GC06	A	08/04/04 18:35
QC259620	Aroclor-1016	GC06	A	08/04/04 00:06
QC259620	Aroclor-1260	GC06	A	08/04/04 00:06
QC259620	TCMX	GC06	A	08/04/04 00:06
QC259620	Decachlorobiphenyl	GC06	A	08/04/04 00:06
QC259621	Aroclor-1016	GC06	A	08/04/04 00:39
QC259621	Aroclor-1260	GC06	A	08/04/04 00:39
QC259621	TCMX	GC06	A	08/04/04 00:39
QC259621	Decachlorobiphenyl	GC06	A	08/04/04 00:39

Curtis & Tompkins Laboratories Sample Preparation Summary 30-JUL-2004 18:00

Batch Number : 93346
Date Extracted: 30-JUL-2004
Extracted by : Jennifer R Dell
Prep Method : 3550

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993A
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173688-015		Innovative Technical Solutions	Soil	29.89	g	25	0.836400	1		.05	0		PCB	3665A	mss
173688-040		Innovative Technical Solutions	Soil	30.23	g	25	0.826993	1		.05	0		PCB	3665A	
173688-045		Innovative Technical Solutions	Soil	29.83	g	25	0.838082	1		.05	0		PCB	3665A	
173688-050		Innovative Technical Solutions	Soil	30.4	g	25	0.822368	1		.05	0		PCB	3665A	
173694-001		PES Environmental, Inc.	Soil	30.25	g	25	0.826446	1		.05	0		PCB	3665A	
173694-002		PES Environmental, Inc.	Soil	30.15	g	25	0.829187	1		.05	0		PCB	3665A	
173694-003		PES Environmental, Inc.	Soil	30.43	g	25	0.821558	1		.05	0		PCB	3665A	
173694-004		PES Environmental, Inc.	Soil	29.71	g	25	0.841468	1		.05	0		PCB	3665A	
173694-005		PES Environmental, Inc.	Soil	30.39	g	25	0.822639	1		.05	0		PCB	3665A	
173694-006		PES Environmental, Inc.	Soil	30.06	g	25	0.831670	1		.05	0		PCB	3665A	
173694-007		PES Environmental, Inc.	Soil	29.91	g	25	0.835841	1		.05	0		PCB	3665A	
173694-008		PES Environmental, Inc.	Soil	30.18	g	25	0.828363	1		.05	0		PCB	3665A	
173711-001		URS Corporation	Soil	29.75	g	25	0.840336	1		.05	0		PCB	3665A	
173711-002		URS Corporation	Soil	30.49	g	25	0.819941	1		.05	0		PCB	3665A	
173711-003		URS Corporation	Soil	30.46	g	25	0.820749	1		.05	0		PCB	3665A	
173727-001		CH2M Hill Constructors Inc.	Soil	30.31	g	25	0.824810	1		.05	0		PCB	3665A	
173728-001		CH2M Hill Constructors Inc.	Soil	29.94	g	25	0.835003	1		.05	0		PCB	3665A	
173741-001		Treadwell & Rollo	Soil	30.01	g	25	0.833056	1		.05	0		PCB	3665A	
QC259618	MB		Soil	29.75	g	25	0.840336	1		.05	0		PCB	3665A	
QC259619	LCS		Soil	29.51	g	25	0.847170	1		.05	.05		PCB	3665A	
QC259620	MS	of 173688-015	Soil	29.96	g	25	0.834446	1		.05	.05		PCB	3665A	
QC259621	MSD	of 173688-015	Soil	29.72	g	25	0.841184	1		.05	.05		PCB	3665A	

Prep Chemist: Jennifer Dell Reviewed By: [illegible] Date: 7/30/04

Relinquished By: Jennifer Dell Received By: [illegible] Date: 8/1/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

LIMS Batch No: 93346
LIMS Analysis: PCB
Extracted by: JRD
Date Extracted: 7/30/04

☒ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ EPA 3545 PFE (ASE Method# ____)
☐ Other ____

	Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
	1731088-015	29.89	25.0	MSS
	-040	30.23		
	-045	29.83		
	-050	30.40		
5	1731094-001	30.25		
	-002	30.15		
	-003	30.43		
	-004	29.71		
	-005	30.39		
10	-006	30.06		
	-007	29.91		
	-008	30.18		
	173711-001	29.75		
	-002	30.49		
15	-003	30.46		
	173727-001	30.31		
	173728-001	29.94		
	MB QC259618	29.75		
	LCS 19	29.51		
20	MS 20	29.96		
	MSD 21	29.72		
	173741-001	30.01		
			JRD 7/30/04	

s / Date		Mfg & Lot # / LIMS # / Time	Initials / Date
29/04	Sand weighed out for QC samples	EM433 10410	JRD 7/30/04
	dried with CH_2Cl_2-rinsed ☒ ~~granular~~ powder Na_2SO_4 ☐ diatomaceous earth	JTB A17H50	
	0.05 mL of surrogate solution was added to all samples	04W50993A	
	0.05 mL of spike solution 16600 was added to all spikes	04W51320A	
	1:1 CH_2Cl_2 (lot# EM44161):Acetone(lot# EM44085) was added to all	✓	
	☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
	ASE Cellulose Filters used:	N/A	
	PFE (ASE) / soxhlets on at:		
	PFE (ASE) / soxhlets off at:	✓	
	Extracts filtered through baked, CH_2Cl_2-rinsed ~~granular~~ powder Na_2SO_4	JTB A17H50	
	Concentrated to volumes noted above after exchange to Hexane Lot#	✓ CK89Q	
29/04	**EPA 3665A Clean-up**: vortexed w/ 10mL H_2SO_4 Lot#	✓ JTB X260946	
✓	Centrifuged for 1 min; 10mL transferred to labelled vial	✓	✓

29/04 Jennifer Lucci 7/29/04 JRD 7/30/04 7/30/04 Continued from page ____ Continued on page ____ Carol Weese 7/30/04

PROJECT Soil Aliquot

Continued From Page

Sample ID	Weight	Analysis	Comments
173688-001A	29.83	PCB	MSS
002	30.37		
003	30.07		
004	30.35		
005	29.89		
006	29.77		
007	30.22		
008	30.32		
009	29.77		
010	29.63		
011 ~~010~~	30.33		
RJS 7/29 012	30.16		
013	29.76		
014	29.71		
015	29.89		MSS
020	29.75		Comp (016-019)A
025	29.98		(021-024)
030	29.93		(026-029)
035	30.26		(031-034)
040	30.23		(036-039)
045	29.83		(041-044)
050	30.40		(046-049)
MB	29.61	PCB	EM433104 10
LCS	29.80		
MS	30.22		173688-001A
MSD	29.90		
MB	29.75	PCB	EM433104 10
LCS	29.51		
MS	29.96		173688-015A
MSD	29.72		

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
[signature]	7/29/04		00065

PROJECT Soil Aliquot

Notebook No. 1964

Continued From Page

Sample ID	Weight	Analysis	Comments
173651-001A	29.86	PCB	
002A	29.79		
173694-001A	30.25	PCB	
002	30.15		
003	30.43		
004	29.7		
005	30.39		
006	30.06		
007	29.91		
008	30.18		

RJS 7/29/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 7/29/04 Signed: Date:

PROJECT Soil Aliquot

Continued From Page —

SAMPLE ID	WEIGHT	ANALYSIS	COMMENTS
173711-001	30.12	8100	MSS COMP A-D
002	30.12		
003	29.71		
MB	29.75		GM43310410
LCS	29.54		
MS	29.97		173711-001
MSD	30.04		
173711-001	29.75	PCB	COMP(A-D)
002	30.49		
003	30.46		
001	49.81	TEH	
002	49.86		
003	49.85		
173709-001	50.16		
	29.90	8270	

RDS 7/29/04

Continued on Page

Read and Understood By

Signed 7/29/04 Date Signed Date

PROJECT Soil Aliquot

Continued From Page —

Sample ID	Weight	Analysis	Comments
173724-002	30.25	8081	Comp (A-H)
↓ ↓	30.01	PCB	↓
173727-001A	29.98	8081	
↓ ↓	30.31	PCB	
173728-001A	30.08	8081	
↓ ↓	29.94	PCB	

RES 7/30/04

Continued on Page

Read and Understood By

Signed 7/30/04 Date Signed Date

00008

PROJECT Soil Aliquot

Continued From Page

SAMPLE ID	WEIGHT	ANALYSIS	COMMENTS
173741-001A	30.27	SC81	
↓ ↓	30.01	PCB	

RSS 7/30/04

Continued on Page

Read and Understood By

Signed: [illegible] Date: 7/30/04 Signed: Date:

PCBs	GC_06a	GC_06b	GC_22a	GC_22b
Soil MDLs (ug/Kg)	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1016	3.9	9.0	2.2	2.4

	GC_06a	GC_06b	GC_22a	GC_22b
	4/10/04	4/10/04	4/19/04	4/19/04
Aroclor 1221	18	15	12	12

	GC_06a	GC_06b	GC_22a	GC_22b
	2/18/04	2/18/04	2/17/04	2/17/04
Aroclor 1232	4.0	4.8	8.5	8.8

	GC_06a	GC_06b	GC_14a	GC_14b	GC_22a	GC_22b
	2/18/04	2/18/04	5/04/04	5/04/04	1/15/04	1/15/04
Aroclor 1242	5.5	5.1	4.1	3.5	3.2	1.9

	GC_06a	GC_06b	GC_22a	GC_22b
	12/11/03	12/11/03	1/23/04	1/23/04
Aroclor 1248	3.1	3.4	3.2	7.8

	GC_06a	GC_06b	GC_22a	GC_22b
	8/12/03	8/12/03	7/26/03	7/26/03
Aroclor 1254	5.4	3.2	2.6	1.8

	GC_06a	GC_06b	GC_22a	GC_22b
	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1260	3.9	3.9	1.7	4.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX100[0.5]	Batch#:	93374
Lab ID:	173741-001	Sampled:	07/30/04
Matrix:	Soil	Received:	07/30/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	dry	Analyzed:	08/02/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	2.9	0.25
Barium	34	0.50
Beryllium	0.11	0.099
Cadmium	0.31	0.25
Chromium	49	0.50
Cobalt	6.0	0.99
Copper	8.3	0.50
Lead	26	0.15
Molybdenum	ND	0.99
Nickel	30	0.99
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	42	0.50
Zinc	72	0.99

ND= Not Detected
RL= Reporting Limit

5.0

00072

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC259725	Batch#:	93374
Matrix:	Soil	Prepared:	08/02/04
Units:	mg/Kg	Analyzed:	08/02/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

6.0

00073

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93374
Units:	mg/Kg	Prepared:	08/02/04
Basis:	as received	Analyzed:	08/02/04
Diln Fac:	1.000		

Type: BS Lab ID: QC259726

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	102.0	102	75-125
Arsenic	50.00	51.50	103	75-125
Barium	100.0	97.00	97	75-125
Beryllium	2.500	2.610	104	75-125
Cadmium	10.00	10.00	100	75-125
Chromium	100.0	101.0	101	75-125
Cobalt	25.00	25.20	101	75-125
Copper	12.50	12.85	103	75-125
Lead	100.0	102.5	103	75-125
Molybdenum	20.00	20.55	103	75-125
Nickel	25.00	25.20	101	75-125
Selenium	50.00	51.00	102	75-125
Silver	10.00	10.30	103	75-125
Thallium	50.00	49.45	99	75-125
Vanadium	25.00	25.55	102	75-125
Zinc	25.00	26.90	108	75-125

Type: BSD Lab ID: QC259727

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	101.0	101	75-125	1	30
Arsenic	50.00	51.00	102	75-125	1	30
Barium	100.0	95.50	96	75-125	2	30
Beryllium	2.500	2.575	103	75-125	1	30
Cadmium	10.00	9.850	99	75-125	2	30
Chromium	100.0	99.50	100	75-125	1	30
Cobalt	25.00	24.85	99	75-125	1	30
Copper	12.50	12.65	101	75-125	2	30
Lead	100.0	101.0	101	75-125	1	30
Molybdenum	20.00	20.40	102	75-125	1	30
Nickel	25.00	24.85	99	75-125	1	30
Selenium	50.00	50.50	101	75-125	1	30
Silver	10.00	10.10	101	75-125	2	30
Thallium	50.00	48.80	98	75-125	1	30
Vanadium	25.00	25.20	101	75-125	1	30
Zinc	25.00	26.65	107	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173741	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	93374
MSS Lab ID:	173729-004	Sampled:	07/29/04
Matrix:	Soil	Received:	07/29/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	as received	Analyzed:	08/02/04
Diln Fac:	1.000		

Type: MS Lab ID: QC259728

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.602	93.46	38.60	40 *	75-125
Arsenic	9.796	46.73	51.40	89	75-125
Barium	143.4	93.46	234.1	97	75-125
Beryllium	0.4321	2.336	2.500	89	75-125
Cadmium	0.1709	9.346	8.598	90	75-125
Chromium	25.20	93.46	105.6	86	75-125
Cobalt	7.806	23.36	27.99	86	75-125
Copper	69.90	11.68	78.04	70 NM	75-125
Lead	165.8	93.46	241.1	81	75-125
Molybdenum	0.5408	18.69	15.05	78	75-125
Nickel	26.73	23.36	46.54	85	75-125
Selenium	0.6071	46.73	40.47	85	75-125
Silver	<0.02800	9.346	8.598	92	75-125
Thallium	<0.1500	46.73	37.90	81	75-125
Vanadium	39.29	23.36	59.81	88	75-125
Zinc	133.7	23.36	154.7 >LR	90 NM	75-125

Type: MSD Lab ID: QC259729

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	43.20	42 *	75-125	5	30
Arsenic	50.00	55.50	91	75-125	2	30
Barium	100.0	255.0	112	75-125	6	30
Beryllium	2.500	2.700	91	75-125	2	30
Cadmium	10.00	9.350	92	75-125	2	30
Chromium	100.0	114.5	89	75-125	3	30
Cobalt	25.00	30.65	91	75-125	4	30
Copper	12.50	86.50	133 NM	75-125	9	30
Lead	100.0	258.5	93	75-125	4	30
Molybdenum	20.00	16.65	81	75-125	4	30
Nickel	25.00	49.30	90	75-125	3	30
Selenium	50.00	44.40	88	75-125	3	30
Silver	10.00	9.300	93	75-125	1	30
Thallium	50.00	42.25	85	75-125	4	30
Vanadium	25.00	62.50	93	75-125	2	30
Zinc	25.00	157.0 >LR	93 NM	75-125	NC	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

8.0

00075

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74310009010	Seqnum	: 74310009011
Filename	: tr243948	Filename	: tr243949
IDF	: 1.0	IDF	: 5.0
PDF	: 51.02	PDF	: 51.02
Run type	: MSS	Run type	: SER
Samplenum	: 173729-004	Samplenum	: QC259730
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93374	Batchnum	: 93374
Inj	: 02-AUG-2004 07:32	Inj	: 02-AUG-2004 07:40
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	3.06	ND	15.3	--	10	u
Arsenic	9.80	0.255	9.52	1.28	3	10	u
Barium	143	0.510	141	2.55	1	10	u
Beryllium	0.432	0.102	ND	0.510	--	10	u
Cadmium	ND	0.255	ND	1.28	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	25.2	0.510	26.3	2.55	4	10	u
Cobalt	7.81	1.02	8.24	5.10	6	10	u
Copper	69.9	0.510	69.6	2.55	0	10	u
Iron	*** usable MSS data not found ***						
Lead	166	0.153	174	0.765	5	10	u
Magnesium	3620	25.5	3740	128	3	10	
Manganese	318	0.510	319	2.55	0	10	
Molybdenum	ND	1.02	ND	5.10	--	10	u
Nickel	26.7	1.02	28.1	5.10	5	10	u
Selenium	0.607	0.255	1.37	1.28	--	10	r
Silver	ND	0.255	ND	1.28	--	10	u
Thallium	ND	0.255	ND	1.28	--	10	u
Vanadium	39.3	0.510	40.3	2.55	3	10	u
	134	1.02	139	5.10	4	10	u
Titanium	*** usable MSS data not found ***						

r=RSD out u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74310009010
Filename : tr243948
IDF : 1.0
PDF : 51.02
Run type : MSS
Samplenum: 173729-004
Matrix : Soil
Batchnum : 93374
Inj : 02-AUG-2004 07:32

Instid : MET07
Seqnum : 74310009013
Filename : tr243951
IDF : 5.0
PDF : 51.02
Run type : SER
Samplenum: QC259730
Matrix : Soil
Batchnum : 93374
Inj : 02-AUG-2004 07:49

Units : mg/Kg

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	3.06	ND	15.3	--	10	
Arsenic	9.80	0.255	9.85	1.28	1	10	
Barium	143	0.510	140	2.55	2	10	
Beryllium	0.432	0.102	ND	0.510	--	10	
Cadmium	ND	0.255	ND	1.28	--	10	
Calcium	*** usable MSS data not found ***						
Chromium	25.2	0.510	26.0	2.55	3	10	
Cobalt	7.81	1.02	8.14	5.10	4	10	
Copper	69.9	0.510	69.4	2.55	1	10	
Iron	*** usable MSS data not found ***						
Lead	166	0.153	174	0.765	5	10	
Magnesium	3620	25.5	3750	128	4	10	
Manganese	318	0.510	321	2.55	1	10	
Molybdenum	ND	1.02	ND	5.10	--	10	
Nickel	26.7	1.02	28.1	5.10	5	10	
Selenium	0.607	0.255	ND	1.28	--	10	u
Silver	ND	0.255	ND	1.28	--	10	
Thallium	ND	0.255	ND	1.28	--	10	
Vanadium	39.3	0.510	40.1	2.55	2	10	
Zinc	134	1.02	139	5.10	4	10	
Titanium	*** usable MSS data not found ***						

u=use

Method: 6010B Standard: blank
Run Time: 08/02/04 06:27:38

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.003	.003	.001	.001	-.254	.004	.000
SDev	.001	.001	.001	.001	.004	.002	.000
%RSD	37.1	22.8	71.5	61.6	1.75	45.4	4.80
#1	-.004	.002	.002	.002	-.250	.005	.000
#2	-.002	.003	.001	.001	-.257	.003	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.005	.005	-.003	.001	.003	-.012
SDev	.000	.000	.001	.000	.000	.002	.001
%RSD	25.6	7.97	10.4	15.5	17.0	63.7	4.93
#1	-.001	.006	.005	-.002	.002	.004	-.011
#2	-.001	.005	.005	-.003	.001	.002	-.012

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	.001	-.006	.001	.033	.0531	-.0024
SDev	.004	.001	.001	.000	.001	.0010	.0004
%RSD	60.3	141.	11.0	11.2	1.99	1.867	14.81
#1	.004	.000	-.005	.001	.033	.0524	-.0021
#2	.009	.001	-.006	.001	.034	.0538	-.0026

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0013	.0003	.001	.191
SDev	.0002	.0002	.000	.004
%RSD	14.70	55.17	5.36	1.82
#1	-.0011	.0004	.001	.188
#2	-.0014	.0002	.001	.193

Method: 6010B Standard: cst hi
Run Time: 08/02/04 06:31:02

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.40	.753	.307	15.1	2.84	1.16	.245
SDev	.06	.038	.013	.9	.15	.06	.012
%RSD	4.25	5.04	4.29	5.69	5.19	5.05	4.83
#1	1.36	.726	.298	14.5	2.73	1.12	.237
#2	1.44	.780	.316	15.7	2.94	1.20	.254

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.793	.505	.919	.942	2.38	1.95	.333
SDev	.036	.027	.028	.041	.15	.09	.012
%RSD	4.59	5.36	3.00	4.39	6.13	4.87	3.57
#1	.767	.486	.900	.912	2.27	1.88	.324
#2	.819	.524	.939	.971	2.48	2.01	.341

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.377	.282	.220	.879	.212	.1640	.3092
SDev	.016	.012	.012	.044	.010	.0088	.0150
%RSD	4.21	4.14	5.37	5.01	4.55	5.349	4.864
#1	.366	.274	.212	.848	.205	.1578	.2985
#2	.389	.290	.229	.910	.219	.1702	.3198

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1277	.1791	1.13	7.01
SDev	.0092	.0094	.06	.37
%RSD	7.230	5.237	5.11	5.24
#1	.1212	.1725	1.09	6.75
#2	.1343	.1857	1.18	7.27

Standardization Report 08/02/04 06:34:57 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	708.472	2.04411	08/02/04 06:31:02
Sb206A	206.832	Multiple	Standards	1306.45	-3.53568	08/02/04 06:31:02
As1890	189.042	Multiple	Standards	1635.84	-1.67862	08/02/04 06:31:02
Ba4934	493.409	Multiple	Standards	66.2570	-.087123	08/02/04 06:31:02
Be3130	313.042	Multiple	Standards	31.2298	7.91692	08/02/04 06:31:02
Cd2265	226.502	Multiple	Standards	86.6650	-.358990	08/02/04 06:31:02
Cr2677	267.716	Multiple	Standards	817.257	-.354929	08/02/04 06:31:02
Co2286	228.616	Multiple	Standards	631.367	.632106	08/02/04 06:31:02
Cu3247	324.754	Multiple	Standards	400.441	-2.15129	08/02/04 06:31:02
Pb2203	220.351	Multiple	Standards	547.570	-2.73396	08/02/04 06:31:02
Pb220A	220.352	Multiple	Standards	524.896	1.39432	08/02/04 06:31:02
Mo2020	202.030	Multiple	Standards	421.003	-.616473	08/02/04 06:31:02
Ni2316	231.604	Multiple	Standards	257.177	-.703368	08/02/04 06:31:02
Se1960	196.021	Multiple	Standards	1452.45	16.9614	08/02/04 06:31:02
Se196A	196.022	Multiple	Standards	1346.71	-8.95730	08/02/04 06:31:02
Ag3280	328.068	Multiple	Standards	355.624	-.225650	08/02/04 06:31:02
Tl1908	190.864	Multiple	Standards	2232.40	12.3731	08/02/04 06:31:02
V_2924	292.402	Multiple	Standards	569.395	-.362202	08/02/04 06:31:02
Zn2138	213.856	Multiple	Standards	576.840	-19.1462	08/02/04 06:31:02
Al3082	308.215	Multiple	Standards	9188.77	-488.333	08/02/04 06:31:02
Ca3179	317.933	Multiple	Standards	6419.49	15.3154	08/02/04 06:31:02
Fe2714	271.441	Multiple	Standards	8115.02	10.1897	08/02/04 06:31:02
Mg2790	279.079	Multiple	Standards	11179.6	-3.22076	08/02/04 06:31:02
Mn2576	257.610	Multiple	Standards	88.2563	-.119997	08/02/04 06:31:02
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/02/04 06:31:02
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/02/04 06:31:02
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/02/04 06:31:02
Ti3349	334.941	Multiple	Standards	146.682	-27.9828	08/02/04 06:31:02

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009001

Run Name :
Filename : tr243939

Injected : 02-AUG-2004 06:49
Caltype :

Standards: 04WS1252

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1022.000	ug/L	2	5	
Antimony	1000.000	1020.000	ug/L	2	5	
Arsenic	500.0000	511.0000	ug/L	2	5	
Barium	1000.000	1020.000	ug/L	2	5	
Beryllium	100.0000	102.0000	ug/L	2	5	
Cadmium	100.0000	102.0000	ug/L	2	5	
Calcium	2000.000	2048.000	ug/L	2	5	
Chromium	200.0000	204.0000	ug/L	2	5	
Cobalt	500.0000	511.0000	ug/L	2	5	
Copper	200.0000	205.0000	ug/L	3	5	
Iron	1000.000	990.6000	ug/L	-1	5	
Lead	500.0000	512.0000	ug/L	2	5	
Magnesium	2000.000	2037.000	ug/L	2	5	
Manganese	100.0000	102.0000	ug/L	2	5	
Molybdenum	1000.000	1020.000	ug/L	2	5	
Nickel	500.0000	512.0000	ug/L	2	5	
Selenium	500.0000	512.0000	ug/L	2	5	
Silver	100.0000	102.0000	ug/L	2	5	
Thallium	500.0000	507.0000	ug/L	1	5	
Titanium	1000.000	1020.000	ug/L	2	5	
Vanadium	500.0000	512.0000	ug/L	2	5	
Zinc	100.0000	102.0000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009002

Run Name :
Filename : tr243940

Injected : 02-AUG-2004 06:53
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	512.1000	ug/L	2	10	
Antimony	500.0000	504.0000	ug/L	1	10	
Arsenic	250.0000	246.0000	ug/L	-2	10	
Barium	500.0000	480.0000	ug/L	-4	10	
Beryllium	50.00000	49.40000	ug/L	-1	10	
Cadmium	50.00000	50.30000	ug/L	1	10	
Calcium	1000.000	1032.000	ug/L	3	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	244.0000	ug/L	-2	10	
Copper	100.0000	99.80000	ug/L	0	10	
Iron	500.0000	511.1000	ug/L	2	10	
Lead	250.0000	253.0000	ug/L	1	10	
Magnesium	1000.000	1021.000	ug/L	2	10	
Manganese	50.00000	49.20000	ug/L	-2	10	
Molybdenum	500.0000	505.0000	ug/L	1	10	
Nickel	250.0000	249.0000	ug/L	0	10	
Selenium	250.0000	250.0000	ug/L	0	10	
Silver	50.00000	49.20000	ug/L	-2	10	
Thallium	250.0000	242.0000	ug/L	-3	10	
Titanium	500.0000	498.0000	ug/L	0	10	
Vanadium	250.0000	245.0000	ug/L	-2	10	
Zinc	50.00000	49.50000	ug/L	-1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009004
Run Name :
Filename : tr243942
Injected : 02-AUG-2004 07:01
Caltype :

Standards: 04WS1044

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	107.4000	ug/L	7	50	
Antimony	60.00000	59.00000	ug/L	-2	50	
Arsenic	5.000000	3.430000	ug/L	-31	50	
Barium	10.00000	9.810000	ug/L	-2	50	
Beryllium	2.000000	1.920000	ug/L	-4	50	
Cadmium	5.000000	5.240000	ug/L	5	50	
Calcium	200.0000	217.7000	ug/L	9	50	
Chromium	10.00000	10.30000	ug/L	3	50	
Cobalt	20.00000	19.90000	ug/L	-1	50	
Copper	10.00000	10.40000	ug/L	4	50	
Iron	100.0000	112.0000	ug/L	12	50	
Lead	3.000000	3.230000	ug/L	8	50	
Magnesium	200.0000	206.4000	ug/L	3	50	
Manganese	10.00000	9.960000	ug/L	0	50	
Molybdenum	20.00000	21.80000	ug/L	9	50	
Nickel	20.00000	20.30000	ug/L	2	50	
Selenium	5.000000	7.400000	ug/L	48	50	
Silver	5.000000	4.450000	ug/L	-11	50	
Thallium	5.000000	6.130000	ug/L	23	50	
Vanadium	10.00000	10.30000	ug/L	3	50	
Zinc	20.00000	19.10000	ug/L	-5	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009014

Run Name :
Filename : tr243952

IDF : 1.0
Injected : 02-AUG-2004 08:02
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	519.6000	ug/L	4	10	
Antimony		500.0000	509.0000	ug/L	2	10	
Arsenic		250.0000	249.0000	ug/L	0	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	49.60000	ug/L	-1	10	
Cadmium		50.00000	50.30000	ug/L	1	10	
Calcium		1000.000	1031.000	ug/L	3	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	486.5000	ug/L	-3	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1026.000	ug/L	3	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	512.0000	ug/L	2	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	49.50000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009026

Run Name :
Filename : tr243964

IDF : 1.0
Injected : 02-AUG-2004 08:57
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	771.9000	ug/L	3	10	
Antimony		750.0000	762.0000	ug/L	2	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	74.20000	ug/L	-1	10	
Cadmium		75.00000	74.20000	ug/L	-1	10	
Calcium		1500.000	1494.000	ug/L	0	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	730.0000	ug/L	-3	10	
Lead		375.0000	371.0000	ug/L	-1	10	
Magnesium		1500.000	1517.000	ug/L	1	10	
Manganese		75.00000	72.70000	ug/L	-3	10	
Molybdenum		750.0000	751.0000	ug/L	0	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	370.0000	ug/L	-1	10	
Silver		75.00000	75.20000	ug/L	0	10	
Thallium		375.0000	362.0000	ug/L	-3	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	369.0000	ug/L	-2	10	
Zinc		75.00000	74.60000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009038
Run Name :
Filename : tr243976
IDF : 1.0
Injected : 02-AUG-2004 09:52
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	567.2000	ug/L	**13**	10	c+ **
Antimony		500.0000	508.0000	ug/L	2	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	49.70000	ug/L	-1	10	
Cadmium		50.00000	50.90000	ug/L	2	10	
Calcium		1000.000	1022.000	ug/L	2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	555.9000	ug/L	**11**	10	c+ **
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1041.000	ug/L	4	10	
Manganese		50.00000	49.80000	ug/L	0	10	
Molybdenum		500.0000	499.0000	ug/L	0	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	49.50000	ug/L	-1	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	52.10000	ug/L	4	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009050
Run Name :
Filename : tr243988
IDF : 1.0
Injected : 02-AUG-2004 11:27
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	748.1000	ug/L	0	10	
Antimony		750.0000	744.0000	ug/L	-1	10	
Arsenic		375.0000	369.0000	ug/L	-2	10	
Barium		750.0000	722.0000	ug/L	-4	10	
Beryllium		75.00000	73.10000	ug/L	-3	10	
Cadmium		75.00000	73.90000	ug/L	-1	10	
Calcium		1500.000	1440.000	ug/L	-4	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	710.7000	ug/L	-5	10	
Lead		375.0000	366.0000	ug/L	-2	10	
Magnesium		1500.000	1564.000	ug/L	4	10	
Manganese		75.00000	70.70000	ug/L	-6	10	
Molybdenum		750.0000	729.0000	ug/L	-3	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	364.0000	ug/L	-3	10	
Silver		75.00000	72.40000	ug/L	-3	10	
Thallium		375.0000	355.0000	ug/L	-5	10	
Titanium		750.0000	736.0000	ug/L	-2	10	
Vanadium		375.0000	358.0000	ug/L	-5	10	
Zinc		75.00000	74.90000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009062
Run Name :
Filename : tr244000
IDF : 1.0
Injected : 02-AUG-2004 12:26
Caltype :

Standards: 04WS1318

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	246.7000	ug/L	-1	10	
Antimony		250.0000	251.0000	ug/L	0	10	
Arsenic		125.0000	125.0000	ug/L	0	10	
Barium		250.0000	243.0000	ug/L	-3	10	
Beryllium		25.00000	24.70000	ug/L	-1	10	
Cadmium		25.00000	25.20000	ug/L	1	10	
Calcium		500.0000	564.0000	ug/L	**13**	10	c+ **
Chromium		50.00000	49.60000	ug/L	-1	10	
Cobalt		125.0000	120.0000	ug/L	-4	10	
Copper		50.00000	49.30000	ug/L	-1	10	
Iron		250.0000	242.6000	ug/L	-3	10	
Lead		125.0000	124.0000	ug/L	-1	10	
Magnesium		500.0000	512.0000	ug/L	2	10	
Manganese		25.00000	23.90000	ug/L	-4	10	
Molybdenum		250.0000	247.0000	ug/L	-1	10	
Nickel		125.0000	124.0000	ug/L	-1	10	
Selenium		125.0000	126.0000	ug/L	1	10	
Silver		25.00000	24.00000	ug/L	-4	10	
Thallium		125.0000	120.0000	ug/L	-4	10	
Titanium		250.0000	247.0000	ug/L	-1	10	
Vanadium		125.0000	120.0000	ug/L	-4	10	
Zinc		25.00000	25.10000	ug/L	0	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009074

Run Name :
Filename : tr244012

IDF : 1.0
Injected : 02-AUG-2004 13:21
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	528.5000	ug/L	6	10	
Antimony		500.0000	499.0000	ug/L	0	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	487.0000	ug/L	-3	10	
Beryllium		50.00000	48.60000	ug/L	-3	10	
Cadmium		50.00000	50.00000	ug/L	0	10	
Calcium		1000.000	965.6000	ug/L	-3	10	
Chromium		100.0000	97.70000	ug/L	-2	10	
Cobalt		250.0000	236.0000	ug/L	-6	10	
Copper		100.0000	95.90000	ug/L	-4	10	
Iron		500.0000	479.5000	ug/L	-4	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	1018.000	ug/L	2	10	
Manganese		50.00000	46.60000	ug/L	-7	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	47.00000	ug/L	-6	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	489.0000	ug/L	-2	10	
Vanadium		250.0000	236.0000	ug/L	-6	10	
Zinc		50.00000	50.70000	ug/L	1	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009003 Run Name:
Filename: tr243941 Run Type: ICB

Injected: 02-AUG-2004 06:57

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[6.1500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.0700]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009015 Run Name: Injected: 02-AUG-2004 08:09
Filename: tr243953 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.700]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[18.800]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[20.990]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.4500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.5800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009027 Run Name:
Filename: tr243965 Run Type: CCB

Injected: 02-AUG-2004 09:00

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.980]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[38.180]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[21.410]	500.0000	ug/L	<RL
Manganese	[0.4570]	10.00000	ug/L	<RL
Molybdenum	[5.5600]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.3100]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009039 Run Name: Injected: 02-AUG-2004 09:56
Filename: tr243977 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[31.760]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[38.090]	100.0000	ug/L	<RL
Lead	[2.0500]	3.000000	ug/L	<RL
Magnesium	[19.490]	500.0000	ug/L	<RL
Manganese	[0.5550]	10.00000	ug/L	<RL
Molybdenum	[4.5500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.1000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009051 Run Name:
Filename: tr243989 Run Type: CCB

Injected: 02-AUG-2004 11:32

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.4180]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[28.790]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[28.590]	100.0000	ug/L	<RL
Lead	[2.8900]	3.000000	ug/L	<RL
Magnesium	[56.440]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.9800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.9500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009063 Run Name: Injected: 02-AUG-2004 12:29
Filename: tr244001 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.6110]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[67.900]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[22.470]	100.0000	ug/L	<RL
Lead	[1.5300]	3.000000	ug/L	<RL
Magnesium	[25.630]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.8700]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009075 Run Name:
Filename: tr244013 Run Type: CCB

Injected: 02-AUG-2004 13:25

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.9480]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[29.340]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[26.980]	100.0000	ug/L	<RL
Lead	[1.1500]	3.000000	ug/L	<RL
Magnesium	[37.170]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.5900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.5500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74310009005 Run Name: Injected: 02-AUG-2004 07:11
Filename: tr243943 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[3.0200]	60.00000	ug/L	<RL	
Arsenic	[4.9900]	5.000000	ug/L	<RL	
Barium	[0.1050]	10.00000	ug/L	<RL	
Beryllium	[-0.936]	2.000000	ug/L	<RL	
Cadmium	[0.5280]	5.000000	ug/L	<RL	
Chromium	[3.0600]	10.00000	ug/L	<RL	
Cobalt	[0.6910]	10.00000	ug/L	<RL	
Copper	[-1.210]	10.00000	ug/L	<RL	
Lead	[-0.362]	3.000000	ug/L	<RL	
Manganese	[3.4300]	10.00000	ug/L	<RL	
Molybdenum	[0.5290]	20.00000	ug/L	<RL	
Nickel	[2.0500]	20.00000	ug/L	<RL	
Selenium	[-2.460]	5.000000	ug/L	<RL	
Silver	[-0.379]	5.000000	ug/L	<RL	
Thallium	[2.1400]	5.000000	ug/L	<RL	
Titanium	23.30000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-2.840]	10.00000	ug/L	<RL	
Zinc	[-0.320]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	513700	ug/L	103
Calcium	500000	465500.	ug/L	93
Iron	200000	182000	ug/L	91
Magnesium	500000	531700	ug/L	106

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74310009006

Run Name :
Filename : tr243944

Injected : 02-AUG-2004 07:14
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D Flags
Aluminum	500000.0	529200.0	ug/L	6	
Antimony	500.0000	543.0000	ug/L	9	20
Arsenic	500.0000	528.0000	ug/L	6	20
Barium	500.0000	484.0000	ug/L	-3	20
Beryllium	500.0000	506.0000	ug/L	1	20
Cadmium	1000.000	942.0000	ug/L	-6	20
Calcium	500000.0	477000.0	ug/L	-5	
Chromium	500.0000	479.0000	ug/L	-4	20
Cobalt	500.0000	485.0000	ug/L	-3	20
Copper	500.0000	519.0000	ug/L	4	20
Iron	200000.0	187400.0	ug/L	-6	
Lead	1000.000	989.0000	ug/L	-1	20
Magnesium	500000.0	548100.0	ug/L	10	
Manganese	500.0000	477.0000	ug/L	-5	20
Molybdenum	500.0000	505.0000	ug/L	1	20
Nickel	1000.000	925.0000	ug/L	-8	20
Selenium	500.0000	538.0000	ug/L	8	20
Silver	1000.000	890.0000	ug/L	-11	20
Thallium	500.0000	498.0000	ug/L	0	20
Titanium	20000.00	21500.00	ug/L	8	
Vanadium	500.0000	485.0000	ug/L	-3	20
Zinc	1000.000	1040.000	ug/L	4	20

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74310009073 Filename : tr244011 Injected : 02-AUG-2004 13:13
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	483900.0	ug/L	-3		
Antimony	500.0000	501.0000	ug/L	0	20	
Arsenic	500.0000	488.0000	ug/L	-2	20	
Barium	500.0000	458.0000	ug/L	-8	20	
Beryllium	500.0000	444.0000	ug/L	-11	20	
Cadmium	1000.000	875.0000	ug/L	-13	20	
Calcium	500000.0	401400.0	ug/L	-20		
Chromium	500.0000	433.0000	ug/L	-13	20	
Cobalt	500.0000	431.0000	ug/L	-14	20	
Copper	500.0000	459.0000	ug/L	-8	20	
Iron	200000.0	154700.0	ug/L	-23		
Lead	1000.000	890.0000	ug/L	-11	20	
Magnesium	500000.0	492800.0	ug/L	-1		
Manganese	500.0000	415.0000	ug/L	-17	20	
Molybdenum	500.0000	453.0000	ug/L	-9	20	
Nickel	1000.000	848.0000	ug/L	-15	20	
Selenium	500.0000	483.0000	ug/L	-3	20	
Silver	1000.000	798.0000	ug/L	-20	20	
Thallium	500.0000	461.0000	ug/L	-8	20	
Titanium	20000.00	19400.00	ug/L	-3		
Vanadium	500.0000	430.0000	ug/L	-14	20	
Zinc	1000.000	967.0000	ug/L	-3	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74310009 Instrument: MET07 TJA Trace ICP Begun: 02-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	tr243939	CS				02-AUG-2004 06:49	1.0	1.0		1	
002	tr243940	ICV				02-AUG-2004 06:53	1.0	1.0		2	
003	tr243941	ICB				02-AUG-2004 06:57	1.0	1.0			
004	tr243942	CRI				02-AUG-2004 07:01	1.0	1.0		3	
005	tr243943	ICSA				02-AUG-2004 07:11	1.0	1.0	1	4	4:MG=531700
006	tr243944	ICSAB				02-AUG-2004 07:14	1.0	1.0		5	5:MG=548100
007	tr243945	BLANK	QC259725	93374	Soil	02-AUG-2004 07:19	1.0	50.0	1		
008	tr243946	BS	QC259726	93374	Soil	02-AUG-2004 07:23	1.0	50.0	1		
009	tr243947	BSD	QC259727	93374	Soil	02-AUG-2004 07:27	1.0	50.0	1		
010	tr243948	MSS	173729-004	93374	Soil	02-AUG-2004 07:32	1.0	51.02	4		3:FE=399300
011	tr243949	SER	QC259730	93374	Soil	02-AUG-2004 07:40	5.0	51.02			
012	tr243950	MSS	173729-004	93374	Soil	02-AUG-2004 07:44	1.0	51.02	4		3:FE=397600
013	tr243951	SER	QC259730	93374	Soil	02-AUG-2004 07:49	5.0	51.02			
014	tr243952	CCV				02-AUG-2004 08:02	1.0	1.0		6	
015	tr243953	CCB				02-AUG-2004 08:09	1.0	1.0			
016	tr243954	MS	QC259728	93374	Soil	02-AUG-2004 08:12	1.0	46.73			4:FE=494200
017	tr243955	MSD	QC259729	93374	Soil	02-AUG-2004 08:16	1.0	50.0			4:FE=411500
018	tr243956	SAMPLE	173724-002	93374	Soil	02-AUG-2004 08:22	1.0	43.48			5:FE=414900
019	tr243957	SAMPLE	173727-001	93374	Soil	02-AUG-2004 08:26	1.0	50.0	1		4:FE=330400
020	tr243958	SAMPLE	173729-001	93374	Soil	02-AUG-2004 08:30	1.0	39.68			3:FE=420100
021	tr243959	SAMPLE	173729-002	93374	Soil	02-AUG-2004 08:34	1.0	43.48			3:FE=303100
022	tr243960	SAMPLE	173729-003	93374	Soil	02-AUG-2004 08:38	1.0	48.54			3:FE=258200
023	tr243961	SAMPLE	173727-001	93374	Soil	02-AUG-2004 08:43	5.0	50.0			
024	tr243962	SAMPLE	173729-005	93374	Soil	02-AUG-2004 08:47	1.0	50.0			2:FE=276900
025	tr243963	SAMPLE	173729-007	93374	Soil	02-AUG-2004 08:51	1.0	47.62			2:FE=318400
026	tr243964	CCV				02-AUG-2004 08:57	1.0	1.0		7	
027	tr243965	CCB				02-AUG-2004 09:00	1.0	1.0			
028	tr243966	SAMPLE	173729-008	93374	Soil	02-AUG-2004 09:08	1.0	51.02			2:FE=323900
029	tr243967	SAMPLE	173730-001	93374	Soil	02-AUG-2004 09:12	1.0	40.32			2:AL=421100
030	tr243968	SAMPLE	173730-002	93374	Soil	02-AUG-2004 09:16	1.0	48.08			2:AL=324800
031	tr243969	SAMPLE	173730-003	93374	Soil	02-AUG-2004 09:20	1.0	33.11	1		8:CA=619400

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: [illegible] Date: 8/4/04

100

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74310009 Instrument: MET07 TJA Trace ICP Begun: 02-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	tr243970	SAMPLE	173730-003	93374	Soil	02-AUG-2004 09:26	5.0	33.11	1			5:CA=152800
033	tr243971	SAMPLE	173730-003	93374	Soil	02-AUG-2004 09:30	25.0	33.11				1:ZN=8860.00
034	tr243972	SAMPLE	173730-004	93374	Soil	02-AUG-2004 09:34	1.0	51.02				2:AL=370300
035	tr243973	SAMPLE	173730-005	93374	Soil	02-AUG-2004 09:38	1.0	43.10				3:FE=379600
036	tr243974	SAMPLE	173741-001	93374	Soil	02-AUG-2004 09:42	1.0	48.54				3:FE=274600
037	tr243975	SAMPLE	173746-005	93374	Soil	02-AUG-2004 09:47	1.0	46.30				1:FE=190600
038	tr243976	CCV				02-AUG-2004 09:52	1.0	1.0	2		6	
039	tr243977	CCB				02-AUG-2004 09:56	1.0	1.0				
040	tr243978	SAMPLE	173746-010	93374	Soil	02-AUG-2004 10:00	1.0	55.56				1:FE=166000
041	tr243979	SAMPLE	173746-015	93374	Soil	02-AUG-2004 10:04	1.0	49.02				1:FE=198300
042	tr243980	BLANK	QC259731	93375	Soil	02-AUG-2004 10:44	1.0	50.0	1			
043	tr243981	BS	QC259732	93375	Soil	02-AUG-2004 10:48	1.0	50.0	3			
044	tr243982	BSD	QC259733	93375	Soil	02-AUG-2004 10:52	1.0	50.0	3			
045	tr243983	MSS	173690-005	93375	Soil	02-AUG-2004 10:59	1.0	36.50	5			5:MG=2288000
046	tr243984	MS	QC259734	93375	Soil	02-AUG-2004 11:04	1.0	45.45				5:MG=1735000
047	tr243985	MSD	QC259735	93375	Soil	02-AUG-2004 11:08	1.0	37.59		1		6:MG=2404000
048	tr243986	SER	QC259736	93375	Soil	02-AUG-2004 11:16	5.0	36.50	1	2		2:MG=452000
049	tr243987	SER	QC259736	93375	Soil	02-AUG-2004 11:20	5.0	36.50		2		2:MG=453300
050	tr243988	CCV				02-AUG-2004 11:27	1.0	1.0			7	
051	tr243989	CCB				02-AUG-2004 11:32	1.0	1.0				
052	tr243990	PDS	QC259737	93375	Soil	02-AUG-2004 11:36	1.0	36.50			8 9	5:MG=2263000
053	tr243991	SAMPLE	173690-001	93375	Soil	02-AUG-2004 11:41	1.0	40.65				5:MG=1925000
054	tr243992	SAMPLE	173690-002	93375	Soil	02-AUG-2004 11:45	1.0	42.02				5:MG=1535000
055	tr243993	SAMPLE	173690-003	93375	Soil	02-AUG-2004 11:49	1.0	48.08				5:MG=1308000
056	tr243994	SAMPLE	173690-004	93375	Soil	02-AUG-2004 11:54	1.0	51.55				5:MG=1777000
057	tr243995	SAMPLE	173735-001	93375	Soil	02-AUG-2004 11:58	1.0	50.51				4:FE=286200
058	tr243996	SAMPLE	173735-002	93375	Soil	02-AUG-2004 12:02	1.0	55.56				4:CA=326600
059	tr243997	SAMPLE	173735-003	93375	Soil	02-AUG-2004 12:07	1.0	41.32	1			5:CA=442200
060	tr243998	SAMPLE	173735-006	93375	Soil	02-AUG-2004 12:11	1.0	32.89				4:CA=1450000
061	tr243999	SAMPLE	173735-007	93375	Soil	02-AUG-2004 12:18	1.0	49.50				3:CA=974700
062	tr244000	CCV				02-AUG-2004 12:26	1.0	1.0	1		10	

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: MerWu Date: 8/4/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74310009 Instrument: MET07 TJA Trace ICP Begun: 02-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	tr244001	CCB				02-AUG-2004 12:29	1.0	1.0			
064	tr244002	SAMPLE	173735-003	93375	Soil	02-AUG-2004 12:33	10.0	41.32			
065	tr244003	SAMPLE	173735-008	93375	Soil	02-AUG-2004 12:37	1.0	51.02			3:FE=193800
066	tr244004	SAMPLE	173735-009	93375	Soil	02-AUG-2004 12:42	1.0	48.08			4:CA=816000
067	tr244005	SAMPLE	173735-010	93375	Soil	02-AUG-2004 12:46	1.0	35.71			4:CA=1227000
068	tr244006	SAMPLE	173735-011	93375	Soil	02-AUG-2004 12:50	1.0	50.0			4:FE=250000
069	tr244007	SAMPLE	173740-001	93375	Miscel	02-AUG-2004 12:55	1.0	48.08	1		1:V=23700.0
070	tr244008	SAMPLE	173740-002	93375	Miscel	02-AUG-2004 12:59	1.0	54.95			
071	tr244009	SAMPLE	173748-007	93375	Soil	02-AUG-2004 13:04	1.0	42.02			4:FE=369000
072	tr244010	SAMPLE	173740-001	93375	Miscel	02-AUG-2004 13:09	10.0	48.08			
073	tr244011	ICSAB				02-AUG-2004 13:13	1.0	1.0		5	5:MG=492800
074	tr244012	CCV				02-AUG-2004 13:21	1.0	1.0		6	
075	tr244013	CCB				02-AUG-2004 13:25	1.0	1.0			

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: [illegible] Date: 8/4/04

REPORTING SUMMARY FOR 173741 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN	
173741-001	MET07	08/02/04 09:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC259725	MET07	08/02/04 07:19	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC259726	MET07	08/02/04 07:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC259727	MET07	08/02/04 07:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC259728	MET07	08/02/04 08:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC259729	MET07	08/02/04 08:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC259730	MET07	08/02/04 07:40	5.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	
QC259730	MET07	08/02/04 07:49	5.0												+					

Curtis & Tompkins Laboratories Sample Preparation Summary 02-AUG-2004 07:44

Batch Number : 93374
Date Extracted: 02-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173724-002			Innovative Technical Solutions	Soil	1.15	g	50	43.478261	1					T26/ICP		
173727-001			CH2M Hill Constructors Inc.	Soil	1	g	50	50.000000	1					T26/ICP		
173729-001			CH2M Hill Constructors Inc.	Soil	1.26	g	50	39.682540	1					PB		
173729-002			CH2M Hill Constructors Inc.	Soil	1.15	g	50	43.478261	1					PB		
173729-003			CH2M Hill Constructors Inc.	Soil	1.03	g	50	48.543689	1					PB		
173729-004			CH2M Hill Constructors Inc.	Soil	.98	g	50	51.020408	1					PB		mss
173729-005			CH2M Hill Constructors Inc.	Soil	1	g	50	50.000000	1					PB		
173729-007			CH2M Hill Constructors Inc.	Soil	1.05	g	50	47.619048	1					PB		
173729-008			CH2M Hill Constructors Inc.	Soil	.98	g	50	51.020408	1					PB		
173730-001			CH2M Hill Constructors Inc.	Soil	1.24	g	50	40.322581	1					PB		
173730-002			CH2M Hill Constructors Inc.	Soil	1.04	g	50	48.076923	1					PB		
173730-003			CH2M Hill Constructors Inc.	Soil	1.51	g	50	33.112583	1					PB		
173730-004			CH2M Hill Constructors Inc.	Soil	.98	g	50	51.020408	1					PB		
173730-005			CH2M Hill Constructors Inc.	Soil	1.16	g	50	43.103448	1					PB		
173741-001			Treadwell & Rollo	Soil	1.03	g	50	48.543689	1					T26/ICP		
173746-005			Geologica	Soil	1.08	g	50	46.296296	1					PB		
173746-010			Geologica	Soil	.9	g	50	55.555556	1					PB		
173746-015			Geologica	Soil	1.02	g	50	49.019608	1					PB		
QC259725	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC259726	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC259727	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC259728	MS	of 173729-004		Soil	1.07	g	50	46.728972	1		.5	.5		ICAP		
QC259729	MSD	of 173729-004		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC259730	SER	of 173729-004		Soil	.98	g	50	51.020408	1					ICAP		

Prep Chemist: _____ Reviewed By: _____ Date: 8/02/04

Relinquished By: _____ Received By: _____ Date: 8/02/04

00104

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 93374
Date Digested: 7/26/04
Digested by: W

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 20

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BK-QC 259725		Ø	50.0	Y	
*	BS 259726					
*	BSD 259727					
*	173729-004 MS	A	1.07			
*	004 MSD		1.00			
	173724-002		1.15			Comp 8 jars.
	173727-001	A	1.00			
	173729-001	A	1.26			
	-002		1.15			
10	-003		1.03			
	-004	A	0.98			MSS
	-005		1.00			
	-007		1.05			
	-008		0.98			
15	173730-001	A	1.24			
	-002		1.04			
	-003		1.51			
	-004		0.98			
	-005		1.16			
20	173741-001	A	1.03			
	173746-005		1.08			Comp 1-4
	-010		0.90			6-9
	-015		1.02			11-14

0.5 mL of spike solution was added to all spikes

	Reagent ID or LIMS #	Initials / Date
	045171*	VV 8/2/04
	045172*	
digestion temperature (90 - 95 degrees C)	95°C	
1:1 HNO3	A02056 072604	
concentrated HNO3	A02056- JTBaker	
3mL 30% hydrogen peroxide	43287349- V.W.R	
concentrated HCl	A16039- JTBaker	
☒ filtered thru' Whatman # 541	E1566057	

8/2/04
Extraction Chemist / Date

Continued from page –
Continued on page –

8/02/04
Reviewed by / Date

TAL/ ICP Metals	Trace ICP MET-07	Vertical ICP MET-01	ICP-MS* MET-05
Soil MDLs (mg/Kg)	6/23/03	7/20/04	5/26/04
Antimony	0.40	1.3	0.82
Arsenic	0.12	2.8	0.082
Barium	0.039	0.098	0.20
Beryllium	0.015	0.029	0.052
Cadmium	0.019	0.14	0.011
Chromium	0.054	0.29	0.052
Cobalt	0.071	0.39	0.0035
Copper	0.033	0.11	0.097
Lead	0.050	7.9	0.0082
Molybdenum	0.045	0.43	0.0052
Nickel	0.32	0.64	0.30
Selenium	0.17	8.1	0.097
Silver	0.027	0.18	0.0032
Thallium	0.15	9.5	0.013
Vanadium	0.067	0.14	0.15
Zinc	0.13	0.17	0.056
Aluminum	1.0	1.5	0.58
Calcium	0.52	2.8	2.8
Iron	0.79	1.5	0.93
Magnesium	0.48	1.5	0.34
Manganese	0.016	0.11	0.019
Potassium	- -	18	1.1
Sodium	- -	2.8	4.2

* MDL calculation includes the 5x dilution which is standard for ICP-MS soils.

CVAA / Flame AA

Soil MDLs (mg/Kg)	MDL	Analyzed	Instrument
Mercury (EPA 7471A)	0.004	3/30/04	MET-04
	0.005	5/15/03	MET-03
Organic Lead (CA LUFT)	0.22	4/04/03	JE 4000

Miscellaneous Metals (EPA 6010B)	Vertical ICP MET-01
Soil MDLs (mg/Kg)	5/14/03
Boron	1.7
Tin	0.89
Titanium	0.14

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93390
Date: 08/02/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173741-001	15.4280	23.4018	23.2714	98	2
QC259803	15.5148	23.4964	23.3479	98	2
of 173741-001			RPD:	0.2%	12.9%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93390
Date Started: 02-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
173741-001			Treadwell & Rollo	Soil	MOISTURE	02-AUG-2004
QC259803	SDUP	of 173741-001		Soil	MOISTURE	

PROJECT MOISTURE

Notebook No. 1942

Continued From Page 9

8/2/94

93390

Sample	B.C.	DIGIT	Tare wt	Init. wt.	(4 Hrs.) Fin wt.	(1 Hr.) Fin. wt.	Comments
Blank	1	24	15.4072	—	15.4072	15.4073	
173741-1	A	99	15.4280	23.4014	23.2712	23.2714	
DUP ↓ 1	↓	101	15.5146	23.4964	23.3476	23.3479	

OVEN TEMP: 103°C
TIME IN: 9:07 A.M.
TIME OUT: 1:07 P.M.

TIME IN: 1:14 P.M.
TIME OUT: 2:14 P.M.

QUICK ANALYSIS METHOD!

Continued on Page

Read and Understood By:

R. Mcnally — Signed — 8/2/94 — Date

M.K. — Signed — 8/2/94 — Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173773

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX101[0.5]	173773-001
BB3EX102[0.5]	173773-002
BB3EX103[0.5]	173773-003
BB3EX104[0.5]	173773-004
BB3EX105[0.5]	173773-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 8/13/04
Operations Manager

Signature: _____ Date: 8/12/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

Laboratory Number: **173773**
Client: **Treadwell & Rollo**
Project Name: **Presidio – Baker Beach 3**

Order Date: **08/02/04**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for five soil samples received from the above referenced project. The samples were received cold and intact.

Organochlorine Pesticides: The %RSD of the initial calibration of GC16 on 7/29/04 for alpha-BHC from channel A was outside acceptance limits. The associated average %RSD for all compounds was acceptable on both channels, therefore, there is no affect on the quality of the sample results.

The %D of the continuing calibration standard (CCS) 217_030 was outside acceptance limits for several individual compounds. The affected compounds have been flagged with a "b" as per the method. The associated average %D for all compounds was acceptable on both channels, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

PCBs: The TCMX surrogate recoveries for all samples were above acceptance limits. The associated decachlorobiphenyl surrogate recoveries were acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Metals: The matrix spike recoveries for antimony, barium, copper, and vanadium, and the matrix spike duplicate recoveries for antimony, barium, and chromium, were outside acceptance limits. The associated blank spike recoveries were acceptable and the spiked sample was not from this site.

The serial dilution sample analyzed on 8/3/04 at 10:41 was outside acceptance limits for arsenic. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

173773

Treadwell & Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-9930 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Chamberlain
Recorder (Signature Required): [signature] (MAC)

Turnaround Time: 72 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	Metals										Silica gel clean-up	Hold	Remarks
-1 BB3EX101 [0.5]	8/2/04	0946		X						1		X	X	X												Sample Group: Pesticides and Metals
-2 BB3EX102 [0.5]	↓	0956		X						1		X	X	X												
-3 BB3EX103 [0.5]	↓	1157		X						1		X	X	X												
-4 BB3EX104 [0.5]	↓	1203		X						1		X	X	X												
-5 BB3EX105 [0.5]	8/2/04	1221		X						1		X	X	X												

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/2/04	1233	[signature]	8/2/04	12:33
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Send login to Carole Nuttal - Oakland Office

Method of Shipment: [X] Courier [ ] Mail [ ] Other [ ] UPS [ ] Hand Carried [ ] Private Vehicle

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 003483

rec'd intact cold RG

10004

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173773 Date Received: 8/2/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/2/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 8/2/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Zip Lockbag
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX101[0.5]	Batch#:	93420
Lab ID:	173773-001	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	ug/Kg	Prepared:	08/03/04
Basis:	dry	Analyzed:	08/04/04
Diln Fac:	1.000		

Moisture: 6%

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.8
beta-BHC	ND	1.8
gamma-BHC	ND	1.8
delta-BHC	ND b	1.8
Heptachlor	ND	1.8
Aldrin	ND	1.8
Heptachlor epoxide	ND	1.8
Endosulfan I	ND	1.8
Dieldrin	ND	3.6
4,4'-DDE	ND	3.6
Endrin	ND	3.6
Endosulfan II	ND	3.6
Endosulfan sulfate	ND	3.6
4,4'-DDD	ND	3.6
Endrin ketone	ND	3.6
4,4'-DDT	ND b	3.6
Chlordane (Technical)	ND	32
alpha-Chlordane	ND	1.8
gamma-Chlordane	ND	1.8
Methoxychlor	ND	18
Toxaphene	ND	65

Surrogate	%REC	Limits
TCMX	117	65-135
Decachlorobiphenyl	113	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

13.0

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX102[0.5]	Batch#:	93420
Lab ID:	173773-002	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	ug/Kg	Prepared:	08/03/04
Basis:	dry	Analyzed:	08/04/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND b	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND b	3.4
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	101	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

14.0

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX103[0.5]	Batch#:	93420
Lab ID:	173773-003	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	ug/Kg	Prepared:	08/03/04
Basis:	dry	Analyzed:	08/04/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.8
beta-BHC	ND	1.8
gamma-BHC	ND	1.8
delta-BHC	ND b	1.8
Heptachlor	ND	1.8
Aldrin	ND	1.8
Heptachlor epoxide	ND	1.8
Endosulfan I	ND	1.8
Dieldrin	ND	3.5
4,4'-DDE	ND	3.5
Endrin	ND	3.5
Endosulfan II	ND	3.5
Endosulfan sulfate	ND	3.5
4,4'-DDD	ND	3.5
Endrin ketone	ND	3.5
4,4'-DDT	ND b	3.5
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.8
gamma-Chlordane	ND	1.8
Methoxychlor	ND	18
Toxaphene	ND	63

Surrogate	%REC	Limits
TCMX	118	65-135
Decachlorobiphenyl	108	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

15.0

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX104[0.5]	Batch#:	93420
Lab ID:	173773-004	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	ug/Kg	Prepared:	08/03/04
Basis:	dry	Analyzed:	08/04/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.8
beta-BHC	ND	1.8
gamma-BHC	ND	1.8
delta-BHC	ND b	1.8
Heptachlor	ND	1.8
Aldrin	ND	1.8
Heptachlor epoxide	ND	1.8
Endosulfan I	ND	1.8
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND b	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.8
gamma-Chlordane	ND	1.8
Methoxychlor	ND	18
Toxaphene	ND	62

Surrogate	%REC	Limits
TCMX	125	65-135
Decachlorobiphenyl	111	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

16.0

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX105[0.5]	Batch#:	93420
Lab ID:	173773-005	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	ug/Kg	Prepared:	08/03/04
Basis:	dry	Analyzed:	08/05/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.8
beta-BHC	ND	1.8
gamma-BHC	ND	1.8
delta-BHC	ND b	1.8
Heptachlor	ND	1.8
Aldrin	ND	1.8
Heptachlor epoxide	ND	1.8
Endosulfan I	ND	1.8
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND b	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.8
gamma-Chlordane	ND	1.8
Methoxychlor	ND	18
Toxaphene	ND	62

Surrogate	%REC	Limits
TCMX	97	65-135
Decachlorobiphenyl	96	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

17.0

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC259906	Batch#:	93420
Matrix:	Soil	Prepared:	08/03/04
Units:	ug/Kg	Analyzed:	08/04/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND b	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND b	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	109	65-135
Decachlorobiphenyl	101	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

18.0

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC259907	Batch#:	93420
Matrix:	Soil	Prepared:	08/03/04
Units:	ug/Kg	Analyzed:	08/04/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.48	14.82	90	65-135
Heptachlor	16.48	15.74	95	65-135
Aldrin	16.48	15.42	94	65-135
Dieldrin	16.48	14.66	89	65-135
Endrin	16.48	15.83	96	65-135
4,4'-DDT	16.48	13.72 b	83	65-135

Surrogate	%REC	Limits
TCMX	121	65-135
Decachlorobiphenyl	105	65-135

b= See narrative

19.0

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	93420
MSS Lab ID:	173735-007	Sampled:	07/27/04
Matrix:	Soil	Received:	07/29/04
Units:	ug/Kg	Prepared:	08/03/04
Basis:	as received	Analyzed:	08/05/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC259908

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.9600	16.74	14.91	89	65-135
Heptachlor	<1.300	16.74	13.90	83	65-135
Aldrin	<0.9300	16.74	13.76	82	65-135
Dieldrin	<2.100	16.74	13.90	83	65-135
Endrin	<2.200	16.74	15.55	93	65-135
4,4'-DDT	<2.700	16.74	13.79 b	82	65-135

Surrogate	%REC	Limits
TCMX	112	65-135
Decachlorobiphenyl	97	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC259909

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.70	14.90	89	65-135	0	35
Heptachlor	16.70	13.80	83	65-135	0	35
Aldrin	16.70	13.63	82	65-135	1	35
Dieldrin	16.70	13.74	82	65-135	1	35
Endrin	16.70	14.99	90	65-135	3	35
4,4'-DDT	16.70	13.18 b	79	65-135	4	35

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	96	65-135

b= See narrative
RPD= Relative Percent Difference

20.0

INITIAL CALIBRATION REPORT FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: RH
Calnum: 234303916001 Name: Type: (normal) Date: 29-JUL-2004 01:16 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	210_015	234303916015	pest_1	29-JUL-2004 01:16	04WS0929
2	210_016	234303916016	pest_2	29-JUL-2004 01:47	04WS0928
3	210_017	234303916017	pest_3	29-JUL-2004 02:17	04WS0927
4	210_018	234303916018	pest_4	29-JUL-2004 02:48	04WS0926
5	210_019	234303916019	pest_5	29-JUL-2004 03:18	04WS0925
6	210_020	234303916020	pest_6	29-JUL-2004 03:49	04WS0924
7	210_021	234303916021	pest_7	29-JUL-2004 04:20	04WS0923

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	8622.5	9267.3	12251	14627	11904	14604	14438	AVRG	R		8.167E-5		pg	12245	21	0.995	20	rsd ***
gamma-BHC	A	9003.6	9580.7	12329	14253	11387	13738	13296	AVRG	R		8.375E-5		pg	11941	17	0.995	20	
beta-BHC	A	7380.4	6643.6	7330.2	7703.7	5956.9	6841.3	6446.7	AVRG	R		1.449E-4		pg	6900.4	9	0.995	20	
delta-BHC	A	11739	10039	12062	14051	10915	13454	13007	AVRG	R		8.210E-5		pg	12181	12	0.995	20	
Heptachlor	A	11406	11332	13219	14207	11173	12785	11645	AVRG	R		8.161E-5		pg	12253	10	0.995	20	
Aldrin	A	9610.6	9546.0	11502	12860	10219	12020	11083	AVRG	R		9.110E-5		pg	10977	11	0.995	20	
Heptachlor epoxide	A	11433	11026	12592	13320	10510	11660	10054	AVRG	R		8.685E-5		pg	11513	10	0.995	20	
gamma-Chlordane	A	11413	10776	12531	13617	10637	12199	10703	AVRG	R		8.550E-5		pg	11697	10	0.995	20	
alpha-Chlordane	A	11165	10691	12519	13388	10426	11866	10320	AVRG	R		8.709E-5		pg	11482	10	0.995	20	
4,4'-DDE	A	10901	10574	12244	12995	10001	11194	9364.6	AVRG	R		9.059E-5		pg	11039	11	0.995	20	
Endosulfan I	A	10932	10532	12240	13180	10198	11680	9991.0	AVRG	R		8.889E-5		pg	11250	10	0.995	20	
Dieldrin	A	9991.3	9937.8	11943	12847	9933.8	11036	9213.9	AVRG	R		9.345E-5		pg	10700	12	0.995	20	
Endrin	A	9286.6	8948.5	10600	11323	8635.4	9584.1	7885.2	AVRG	R		1.056E-4		pg	9466.1	12	0.995	20	
4,4'-DDD	A	6774.3	6918.2	8559.9	9825.6	7449.9	8740.2	7466.6	AVRG	R		1.256E-4		pg	7962.1	14	0.995	20	
Endosulfan II	A	10305	9918.0	11385	12045	9222.3	10200	8475.5	AVRG	R		9.783E-5		pg	10222	12	0.995	20	
4,4'-DDT	A	6266.1	7002.3	8772.6	10321	7599.5	9272.9	8005.7	AVRG	R		1.223E-4		pg	8177.2	17	0.995	20	
Endrin aldehyde	A	9840.7	8714.3	9364.8	9765.7	7407.8	8210.8	6905.1	AVRG	R		1.163E-4		pg	8601.3	13	0.995	20	
Methoxychlor	A	4350.7	4264.0	4283.6	4248.1	3166.1	3371.0	2894.7	AVRG	R		2.634E-4		pg	3796.9	17	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: RH
Calnum: 234303916001 Name: Type: (normal) Date: 29-JUL-2004 01:16 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	10612	9586.2	10372	10859	8271.9	9107.7	7671.9	AVRG	R		1.053E-4		pg	9497.3	13	0.995	20	
Endrin ketone	A	10243	10404	11813	12613	9512.9	10578	9033.4	AVRG	R		9.434E-5		pg	10599	12	0.995	20	
TCMX	A	10491	10164	11250	11349	9471.0	10025	9284.3	AVRG	R		9.718E-5		pg	10291	8	0.995	20	
Decachlorobiphenyl	A	14172	13559	12793	12327	9289.3	9747.7	8658.9	AVRG	R		8.691E-5		pg	11507	19	0.995	20	
alpha-BHC	B	24700	25846	32049	35538	28850	34076	33862	AVRG	R		3.257E-5		pg	30703	14	0.995	20	
gamma-BHC	B	25818	25490	30584	33096	26431	31065	30418	AVRG	R		3.450E-5		pg	28986	10	0.995	20	
beta-BHC	B	20421	16747	17296	17137	13274	14681	13824	AVRG	R		6.174E-5		pg	16197	15	0.995	20	
delta-BHC	B	33342	27613	31014	33224	25909	30789	29639	AVRG	R		3.309E-5		pg	30219	9	0.995	20	
Heptachlor	B	24761	23190	25714	26675	21210	24068	22549	AVRG	R		4.163E-5		pg	24024	8	0.995	20	
Aldrin	B	24065	23569	27688	30000	23809	27560	25586	AVRG	R		3.840E-5		pg	26040	9	0.995	20	
Heptachlor epoxide	B	26814	24531	27263	28056	22151	24573	21709	AVRG	R		3.998E-5		pg	25014	10	0.995	20	
gamma-Chlordane	B	28325	25614	28719	30507	23983	27667	24803	AVRG	R		3.692E-5		pg	27088	9	0.995	20	
alpha-Chlordane	B	28151	25713	28807	30273	23614	27076	23950	AVRG	R		3.732E-5		pg	26798	9	0.995	20	
4,4'-DDE	B	20854	21077	25363	27937	21420	25123		AVRG	R		4.232E-5		pg	23629	12	0.995	20	
Endosulfan I	B	25403	23169	25976	27360	21303	24062	20851	AVRG	R		4.164E-5		pg	24018	10	0.995	20	
Dieldrin	B	23158	22408	26184	27809	21515	24349		AVRG	R		4.126E-5		pg	24237	10	0.995	20	
Endrin	B	20553	19503	22433	23908	18183	20841	17256	AVRG	R		4.906E-5		pg	20383	11	0.995	20	
4,4'-DDD	B	15386	14984	17651	19697	14928	17778	15341	AVRG	R		6.047E-5		pg	16538	11	0.995	20	
Endosulfan II	B	23422	20921	23097	24187	18502	20847	17213	AVRG	R		4.724E-5		pg	21170	12	0.995	20	
4,4'-DDT	B	12142	12484	15082	17740	13067	16613	14887	AVRG	R		6.862E-5		pg	14574	15	0.995	20	
Endrin aldehyde	B	19947	17236	18239	19118	14438	16359	14282	AVRG	R		5.852E-5		pg	17088	13	0.995	20	
Methoxychlor	B	7046.2	6746.0	7032.2	7597.6	5557.6	6354.6		AVRG	R		1.488E-4		pg	6722.4	10	0.995	20	
Endosulfan sulfate	B	22858	19513	20596	21572	16277	18520	16151	AVRG	R		5.167E-5		pg	19355	13	0.995	20	
Endrin ketone	B	21521	20516	22329	23801	17755	20651	17885	AVRG	R		4.846E-5		pg	20637	11	0.995	20	
TCMX	B	24097	22334	24005	23945	20004	21393	20337	AVRG	R		4.484E-5		pg	22302	8	0.995	20	
Decachlorobiphenyl	B	21022	19375	18292	18430	13781	15555	14954	AVRG	R		5.766E-5		pg	17344	15	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	13	20	
EPA 8081A	B	22	11	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

16

PERFORMANCE EVALUATION REPORT FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234313480010 Run Name: Injected: 04-AUG-2004 16:40
Filename: 217_010 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	695872.07
4,4'-DDE	A	3938.24
4,4'-DDD	A	18133.73

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	456119.55
Endrin aldehyde	A	13672.84
Endrin ketone	A	9289.26

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1168627.84
4,4'-DDE	B	8914.91
4,4'-DDD	B	41663.44

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	934048.06
Endrin aldehyde	B	31003.07
Endrin ketone	B	23706.91

Endrin Breakdown %: 6
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234313480029 Run Name: Injected: 05-AUG-2004 02:34
Filename: 217_029 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	667209.8
4,4'-DDE	A	4137.38
4,4'-DDD	A	19925.43

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	437591.98
Endrin aldehyde	A	5999.37
Endrin ketone	A	9445.27

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1133313.93
4,4'-DDE	B	8077.72
4,4'-DDD	B	50166.76

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	894529.77
Endrin aldehyde	B	17882.05
Endrin ketone	B	23420.54

Endrin Breakdown %: 4
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234313480015 Filename : 217_015 Injected : 04-AUG-2004 19:27
Calnum : 234303916001 Caldate : 29-JUL-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12245	13969	20.00000	22.81583	pg	14	15	rsd ***
gamma-BHC	A	11941	13448	20.00000	22.52406	pg	13	15	
beta-BHC	A	6900.4	7308.8	20.00000	21.18367	pg	6	15	
delta-BHC	A	12181	13252	20.00000	21.75798	pg	9	15	
Heptachlor	A	12253	12179	20.00000	19.87937	pg	-1	15	
Aldrin	A	10977	12194	20.00000	22.21757	pg	11	15	
Heptachlor epoxide	A	11513	12570	20.00000	21.83488	pg	9	15	
gamma-Chlordane	A	11697	12694	20.00000	21.70620	pg	9	15	
alpha-Chlordane	A	11482	12378	20.00000	21.55981	pg	8	15	
4,4'-DDE	A	11039	12151	40.00000	44.02845	pg	10	15	
Endosulfan I	A	11250	12407	20.00000	22.05573	pg	10	15	
Dieldrin	A	10700	11642	40.00000	43.52012	pg	9	15	
Endrin	A	9466.1	10337	40.00000	43.68139	pg	9	15	
4,4'-DDD	A	7962.1	9100.9	40.00000	45.72129	pg	14	15	
Endosulfan II	A	10222	11082	40.00000	43.36600	pg	8	15	
4,4'-DDT	A	8177.2	7622.0	40.00000	37.28385	pg	-7	15	
Endrin aldehyde	A	8601.3	7928.6	40.00000	36.87135	pg	-8	15	
Methoxychlor	A	3796.9	3575.0	200.0000	188.3121	pg	-6	15	
Endosulfan sulfate	A	9497.3	9747.9	40.00000	41.05564	pg	3	15	
Endrin ketone	A	10599	10716	40.00000	40.43962	pg	1	15	
TCMX	A	10291	10965	40.00000	42.62175	pg	7	15	
Decachlorobiphenyl	A	11507	10688	40.00000	37.15582	pg	-7	15	
alpha-BHC	B	30703	33317	20.00000	21.70284	pg	9	15	
gamma-BHC	B	28986	30252	20.00000	20.87347	pg	4	15	
beta-BHC	B	16197	15511	20.00000	19.15265	pg	-4	15	
delta-BHC	B	30219	29997	20.00000	19.85347	pg	-1	15	
Heptachlor	B	24024	21899	20.00000	18.23151	pg	-9	15	
Aldrin	B	26040	28799	20.00000	22.11938	pg	11	15	
Heptachlor epoxide	B	25014	26182	20.00000	20.93414	pg	5	15	
gamma-Chlordane	B	27088	28700	20.00000	21.19029	pg	6	15	
alpha-Chlordane	B	26798	28492	20.00000	21.26433	pg	6	15	
4,4'-DDE	B	23629	24856	40.00000	42.07747	pg	5	15	
Endosulfan I	B	24018	25449	20.00000	21.19148	pg	6	15	
Dieldrin	B	24237	26036	40.00000	42.96918	pg	7	15	
Endrin	B	20383	21501	40.00000	42.19444	pg	5	15	
4,4'-DDD	B	16538	16110	40.00000	38.96631	pg	-3	15	
Endosulfan II	B	21170	22699	40.00000	42.88861	pg	7	15	
4,4'-DDT	B	14574	12433	40.00000	34.12546	pg	-15	15	
Endrin aldehyde	B	17088	17631	40.00000	41.26987	pg	3	15	
Methoxychlor	B	6722.4	5692.5	200.0000	169.3585	pg	-15	15	
Endosulfan sulfate	B	19355	19944	40.00000	41.21646	pg	3	15	
Endrin ketone	B	20637	20989	40.00000	40.68214	pg	2	15	
TCMX	B	22302	23664	40.00000	42.44182	pg	6	15	
Decachlorobiphenyl	B	17344	16358	40.00000	37.72661	pg	-6	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				6	15	

rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_3 IDF : 1.0
Seqnum : 234313480030 Filename : 217_030 Injected : 05-AUG-2004 03:04
Calnum : 234303916001 Caldate : 29-JUL-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12245	10603	10.00000	8.659488	pg	-13	15	rsd ***
gamma-BHC	A	11941	10448	10.00000	8.749733	pg	-13	15	
beta-BHC	A	6900.4	6213.6	10.00000	9.004740	pg	-10	15	
delta-BHC	A	12181	9974.3	10.00000	8.188469	pg	**-18**	15	c- ***
Heptachlor	A	12253	10524	10.00000	8.588852	pg	-14	15	
Aldrin	A	10977	10238	10.00000	9.326707	pg	-7	15	
Heptachlor epoxide	A	11513	11301	10.00000	9.815211	pg	-2	15	
gamma-Chlordane	A	11697	11175	10.00000	9.554389	pg	-4	15	
alpha-Chlordane	A	11482	11208	10.00000	9.760679	pg	-2	15	
4,4'-DDE	A	11039	11254	20.00000	20.39002	pg	2	15	
Endosulfan I	A	11250	10947	10.00000	9.730643	pg	-3	15	
Dieldrin	A	10700	10725	20.00000	20.04553	pg	0	15	
Endrin	A	9466.1	9519.7	20.00000	20.11315	pg	1	15	
4,4'-DDD	A	7962.1	7976.2	20.00000	20.03546	pg	0	15	
Endosulfan II	A	10222	10376	20.00000	20.30155	pg	2	15	
4,4'-DDT	A	8177.2	6150.7	20.00000	15.04346	pg	**-25**	15	c- ***
Endrin aldehyde	A	8601.3	8490.4	20.00000	19.74214	pg	-1	15	
Methoxychlor	A	3796.9	3601.0	100.0000	94.83998	pg	-5	15	
Endosulfan sulfate	A	9497.3	9330.7	20.00000	19.64916	pg	-2	15	
Endrin ketone	A	10599	9995.7	20.00000	18.86069	pg	-6	15	
TCMX	A	10291	10210	20.00000	19.84343	pg	-1	15	
Decachlorobiphenyl	A	11507	11238	20.00000	19.53399	pg	-2	15	
alpha-BHC	B	30703	28046	10.00000	9.134839	pg	-9	15	
gamma-BHC	B	28986	25695	10.00000	8.864571	pg	**-11**	15	
beta-BHC	B	16197	14566	10.00000	8.992885	pg	-10	15	
delta-BHC	B	30219	25480	10.00000	8.431974	pg	**-16**	15	c- ***
Heptachlor	B	24024	18724	10.00000	7.793771	pg	**-22**	15	c- ***
Aldrin	B	26040	25209	10.00000	9.680905	pg	-3	15	
Heptachlor epoxide	B	25014	24279	10.00000	9.706350	pg	-3	15	
gamma-Chlordane	B	27088	26375	10.00000	9.736606	pg	-3	15	
alpha-Chlordane	B	26798	26367	10.00000	9.839253	pg	-2	15	
4,4'-DDE	B	23629	23410	20.00000	19.81489	pg	-1	15	
Endosulfan I	B	24018	23969	10.00000	9.979780	pg	0	15	
Dieldrin	B	24237	23976	20.00000	19.78436	pg	-1	15	
Endrin	B	20383	19827	20.00000	19.45456	pg	-3	15	
4,4'-DDD	B	16538	15139	20.00000	18.30829	pg	-8	15	
Endosulfan II	B	21170	21352	20.00000	20.17230	pg	1	15	
4,4'-DDT	B	14574	10668	20.00000	14.64039	pg	**-27**	15	c- ***
Endrin aldehyde	B	17088	16720	20.00000	19.56934	pg	-2	15	
Methoxychlor	B	6722.4	5420.8	100.0000	80.63867	pg	**-19**	15	c- ***
Endosulfan sulfate	B	19355	19341	20.00000	19.98478	pg	0	15	
Endrin ketone	B	20637	19616	20.00000	19.01034	pg	-5	15	
TCMX	B	22302	22427	20.00000	20.11158	pg	1	15	
Decachlorobiphenyl	B	17344	16816	20.00000	19.39145	pg	-3	15	
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				7	15	

-=low bias c=CCV rsd=ICAL %RSD failure

SEQUENCE SUMMARY FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234303916 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 28-JUL-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
012	210_012	PEM				28-JUL-2004 23:45	1.0			1			1	
014	210_014	X	hex			29-JUL-2004 00:46	1.0							
015	210_015	ICAL	pest_1			29-JUL-2004 01:16	1.0						2	
016	210_016	ICAL	pest_2			29-JUL-2004 01:47	1.0						3	
017	210_017	ICAL	pest_3			29-JUL-2004 02:17	1.0						4	
018	210_018	ICAL	pest_4			29-JUL-2004 02:48	1.0						5	
019	210_019	ICAL	pest_5			29-JUL-2004 03:18	1.0						6	
020	210_020	ICAL	pest_6			29-JUL-2004 03:49	1.0						7	
021	210_021	ICAL	pest_7			29-JUL-2004 04:20	1.0						8	
023	210_023	ICV	accu_pest			29-JUL-2004 05:20	1.0	1		1			9	
024	210_024	X	icv			29-JUL-2004 05:51	1.0						9	

Stds used: 1=04WS0930 2=04WS0929 3=04WS0928 4=04WS0927 5=04WS0926 6=04WS0925 7=04WS0924 8=04WS0923 9=04WS1240

SEQUENCE SUMMARY FOR 173773 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234313480 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 04-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
010	217_010	PEM				04-AUG-2004 16:40	1.0	1.0			1	1	
011	217_011	X	pest_4			04-AUG-2004 17:11	1.0					2	
012	217_012	X	ccv			04-AUG-2004 17:41	1.0					2	
013	217_013	X	ccv			04-AUG-2004 18:17	1.0					2	
014	217_014	X	ccv			04-AUG-2004 18:57	1.0					2	
015	217_015	CCV	ccv			04-AUG-2004 19:27	1.0	1.0	1		1	2	
016	217_016	X	ccv			04-AUG-2004 19:58	1.0					2	
018	217_018	BLANK	QC259906	93420	Soil	04-AUG-2004 20:59	1.0	0.6745	6		1		
019	217_019	LCS	QC259907	93420	Soil	04-AUG-2004 21:29	1.0	0.6592	7		1		
020	217_020	SAMPLE	173773-001	93420	Soil	04-AUG-2004 22:00	1.0	0.6777	6		1		
021	217_021	SAMPLE	173773-002	93420	Soil	04-AUG-2004 22:30	1.0	0.6702	6		1		
022	217_022	SAMPLE	173773-003	93420	Soil	04-AUG-2004 23:01	1.0	0.6766	6		1		
023	217_023	SAMPLE	173773-004	93420	Soil	04-AUG-2004 23:31	1.0	0.6754	6		1		
024	217_024	SAMPLE	173773-005	93420	Soil	05-AUG-2004 00:02	1.0	0.6773	6		1		
025	217_025	MSS	173735-007	93420	Soil	05-AUG-2004 00:32	1.0	0.6709	6		1		
026	217_026	MS	QC259908	93420	Soil	05-AUG-2004 01:02	1.0	0.6698	7		1		
027	217_027	MSD	QC259909	93420	Soil	05-AUG-2004 01:33	1.0	0.668	7		1		
029	217_029	PEM				05-AUG-2004 02:34	1.0	1.0			1	1	
030	217_030	CCV	pest_3			05-AUG-2004 03:04	1.0	1.0	7		1	3	
031	217_031	X	ccv			05-AUG-2004 03:34	1.0					3	
032	217_032	X	ccv			05-AUG-2004 04:05	1.0					4	
034	217_034	SAMPLE	173735-006	93420	Soil	05-AUG-2004 05:06	1.0	0.6716	8		1		
035	217_035	SAMPLE	173735-008	93420	Soil	05-AUG-2004 05:36	1.0	0.6562	6		1		
036	217_036	SAMPLE	173735-009	93420	Soil	05-AUG-2004 06:07	1.0	0.6764	6		1		
037	217_037	SAMPLE	173735-010	93420	Soil	05-AUG-2004 06:37	5.0	0.6741	6	1	1		
038	217_038	SAMPLE	173735-011	93420	Soil	05-AUG-2004 07:08	1.0	0.6759	6		1		
040	217_040	PEM				05-AUG-2004 08:09	1.0	1.0			1	1	
041	217_041	X	pest_4			05-AUG-2004 08:39	1.0					2	
042	217_042	CCV	ccv			05-AUG-2004 09:09	1.0	1.0	12		1	2	

Stds used: 1=04WS1389 2=04WS0926 3=04WS1385 4=04WS1375

Reporting Summary for 173773 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173773-001	alpha-BHC	GC16	A	08/04/04 22:00
173773-001	beta-BHC	GC16	A	08/04/04 22:00
173773-001	gamma-BHC	GC16	A	08/04/04 22:00
173773-001	delta-BHC	GC16	A	08/04/04 22:00
173773-001	Heptachlor	GC16	A	08/04/04 22:00
173773-001	Aldrin	GC16	A	08/04/04 22:00
173773-001	Heptachlor epoxide	GC16	A	08/04/04 22:00
173773-001	Endosulfan I	GC16	A	08/04/04 22:00
173773-001	Dieldrin	GC16	A	08/04/04 22:00
173773-001	4,4'-DDE	GC16	A	08/04/04 22:00
173773-001	Endrin	GC16	A	08/04/04 22:00
173773-001	Endosulfan II	GC16	A	08/04/04 22:00
173773-001	Endosulfan sulfate	GC16	A	08/04/04 22:00
173773-001	4,4'-DDD	GC16	A	08/04/04 22:00
173773-001	Endrin ketone	GC16	A	08/04/04 22:00
173773-001	4,4'-DDT	GC16	A	08/04/04 22:00
173773-001	Chlordane (Technical)	GC16	A	08/04/04 22:00
173773-001	alpha-Chlordane	GC16	A	08/04/04 22:00
173773-001	gamma-Chlordane	GC16	A	08/04/04 22:00
173773-001	Methoxychlor	GC16	A	08/04/04 22:00
173773-001	Toxaphene	GC16	A	08/04/04 22:00
173773-001	TCMX	GC16	A	08/04/04 22:00
173773-001	Decachlorobiphenyl	GC16	A	08/04/04 22:00
173773-002	alpha-BHC	GC16	A	08/04/04 22:30
173773-002	beta-BHC	GC16	A	08/04/04 22:30
173773-002	gamma-BHC	GC16	A	08/04/04 22:30
173773-002	delta-BHC	GC16	A	08/04/04 22:30
173773-002	Heptachlor	GC16	A	08/04/04 22:30
173773-002	Aldrin	GC16	A	08/04/04 22:30
173773-002	Heptachlor epoxide	GC16	A	08/04/04 22:30
173773-002	Endosulfan I	GC16	A	08/04/04 22:30
173773-002	Dieldrin	GC16	A	08/04/04 22:30
173773-002	4,4'-DDE	GC16	A	08/04/04 22:30
173773-002	Endrin	GC16	A	08/04/04 22:30
173773-002	Endosulfan II	GC16	A	08/04/04 22:30
173773-002	Endosulfan sulfate	GC16	A	08/04/04 22:30
173773-002	4,4'-DDD	GC16	A	08/04/04 22:30
173773-002	Endrin ketone	GC16	A	08/04/04 22:30
173773-002	4,4'-DDT	GC16	A	08/04/04 22:30
173773-002	Chlordane (Technical)	GC16	A	08/04/04 22:30
173773-002	alpha-Chlordane	GC16	A	08/04/04 22:30
173773-002	gamma-Chlordane	GC16	A	08/04/04 22:30
173773-002	Methoxychlor	GC16	A	08/04/04 22:30
173773-002	Toxaphene	GC16	A	08/04/04 22:30
173773-002	TCMX	GC16	A	08/04/04 22:30
173773-002	Decachlorobiphenyl	GC16	A	08/04/04 22:30
173773-003	alpha-BHC	GC16	A	08/04/04 23:01
173773-003	beta-BHC	GC16	A	08/04/04 23:01
173773-003	gamma-BHC	GC16	A	08/04/04 23:01
173773-003	delta-BHC	GC16	A	08/04/04 23:01
173773-003	Heptachlor	GC16	A	08/04/04 23:01
173773-003	Aldrin	GC16	A	08/04/04 23:01

Reporting Summary for 173773 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173773-003	Heptachlor epoxide	GC16	A	08/04/04 23:01
173773-003	Endosulfan I	GC16	A	08/04/04 23:01
173773-003	Dieldrin	GC16	A	08/04/04 23:01
173773-003	4,4'-DDE	GC16	A	08/04/04 23:01
173773-003	Endrin	GC16	A	08/04/04 23:01
173773-003	Endosulfan II	GC16	A	08/04/04 23:01
173773-003	Endosulfan sulfate	GC16	A	08/04/04 23:01
173773-003	4,4'-DDD	GC16	A	08/04/04 23:01
173773-003	Endrin ketone	GC16	A	08/04/04 23:01
173773-003	4,4'-DDT	GC16	A	08/04/04 23:01
173773-003	Chlordane (Technical)	GC16	A	08/04/04 23:01
173773-003	alpha-Chlordane	GC16	A	08/04/04 23:01
173773-003	gamma-Chlordane	GC16	A	08/04/04 23:01
173773-003	Methoxychlor	GC16	A	08/04/04 23:01
173773-003	Toxaphene	GC16	A	08/04/04 23:01
173773-003	TCMX	GC16	A	08/04/04 23:01
173773-003	Decachlorobiphenyl	GC16	A	08/04/04 23:01
173773-004	alpha-BHC	GC16	A	08/04/04 23:31
173773-004	beta-BHC	GC16	A	08/04/04 23:31
173773-004	gamma-BHC	GC16	A	08/04/04 23:31
173773-004	delta-BHC	GC16	A	08/04/04 23:31
173773-004	Heptachlor	GC16	A	08/04/04 23:31
173773-004	Aldrin	GC16	A	08/04/04 23:31
173773-004	Heptachlor epoxide	GC16	A	08/04/04 23:31
173773-004	Endosulfan I	GC16	A	08/04/04 23:31
173773-004	Dieldrin	GC16	A	08/04/04 23:31
173773-004	4,4'-DDE	GC16	A	08/04/04 23:31
173773-004	Endrin	GC16	A	08/04/04 23:31
173773-004	Endosulfan II	GC16	A	08/04/04 23:31
173773-004	Endosulfan sulfate	GC16	A	08/04/04 23:31
173773-004	4,4'-DDD	GC16	A	08/04/04 23:31
173773-004	Endrin ketone	GC16	A	08/04/04 23:31
173773-004	4,4'-DDT	GC16	A	08/04/04 23:31
173773-004	Chlordane (Technical)	GC16	A	08/04/04 23:31
173773-004	alpha-Chlordane	GC16	A	08/04/04 23:31
173773-004	gamma-Chlordane	GC16	A	08/04/04 23:31
173773-004	Methoxychlor	GC16	A	08/04/04 23:31
173773-004	Toxaphene	GC16	A	08/04/04 23:31
173773-004	TCMX	GC16	A	08/04/04 23:31
173773-004	Decachlorobiphenyl	GC16	A	08/04/04 23:31
173773-005	alpha-BHC	GC16	A	08/05/04 00:02
173773-005	beta-BHC	GC16	A	08/05/04 00:02
173773-005	gamma-BHC	GC16	A	08/05/04 00:02
173773-005	delta-BHC	GC16	A	08/05/04 00:02
173773-005	Heptachlor	GC16	A	08/05/04 00:02
173773-005	Aldrin	GC16	A	08/05/04 00:02
173773-005	Heptachlor epoxide	GC16	A	08/05/04 00:02
173773-005	Endosulfan I	GC16	A	08/05/04 00:02
173773-005	Dieldrin	GC16	A	08/05/04 00:02
173773-005	4,4'-DDE	GC16	A	08/05/04 00:02
173773-005	Endrin	GC16	A	08/05/04 00:02
173773-005	Endosulfan II	GC16	A	08/05/04 00:02

Reporting Summary for 173773 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173773-005	Endosulfan sulfate	GC16	A	08/05/04 00:02
173773-005	4,4'-DDD	GC16	A	08/05/04 00:02
173773-005	Endrin ketone	GC16	A	08/05/04 00:02
173773-005	4,4'-DDT	GC16	A	08/05/04 00:02
173773-005	Chlordane (Technical)	GC16	A	08/05/04 00:02
173773-005	alpha-Chlordane	GC16	A	08/05/04 00:02
173773-005	gamma-Chlordane	GC16	A	08/05/04 00:02
173773-005	Methoxychlor	GC16	A	08/05/04 00:02
173773-005	Toxaphene	GC16	A	08/05/04 00:02
173773-005	TCMX	GC16	A	08/05/04 00:02
173773-005	Decachlorobiphenyl	GC16	A	08/05/04 00:02
QC259906	alpha-BHC	GC16	A	08/04/04 20:59
QC259906	beta-BHC	GC16	A	08/04/04 20:59
QC259906	gamma-BHC	GC16	A	08/04/04 20:59
QC259906	delta-BHC	GC16	A	08/04/04 20:59
QC259906	Heptachlor	GC16	A	08/04/04 20:59
QC259906	Aldrin	GC16	A	08/04/04 20:59
QC259906	Heptachlor epoxide	GC16	A	08/04/04 20:59
QC259906	Endosulfan I	GC16	A	08/04/04 20:59
QC259906	Dieldrin	GC16	A	08/04/04 20:59
QC259906	4,4'-DDE	GC16	A	08/04/04 20:59
QC259906	Endrin	GC16	A	08/04/04 20:59
QC259906	Endosulfan II	GC16	A	08/04/04 20:59
QC259906	Endosulfan sulfate	GC16	A	08/04/04 20:59
QC259906	4,4'-DDD	GC16	A	08/04/04 20:59
QC259906	Endrin ketone	GC16	A	08/04/04 20:59
QC259906	4,4'-DDT	GC16	A	08/04/04 20:59
QC259906	Chlordane (Technical)	GC16	A	08/04/04 20:59
QC259906	alpha-Chlordane	GC16	A	08/04/04 20:59
QC259906	gamma-Chlordane	GC16	A	08/04/04 20:59
QC259906	Methoxychlor	GC16	A	08/04/04 20:59
QC259906	Toxaphene	GC16	A	08/04/04 20:59
QC259906	TCMX	GC16	A	08/04/04 20:59
QC259906	Decachlorobiphenyl	GC16	A	08/04/04 20:59
QC259907	gamma-BHC	GC16	A	08/04/04 21:29
QC259907	Heptachlor	GC16	A	08/04/04 21:29
QC259907	Aldrin	GC16	A	08/04/04 21:29
QC259907	Dieldrin	GC16	A	08/04/04 21:29
QC259907	Endrin	GC16	A	08/04/04 21:29
QC259907	4,4'-DDT	GC16	A	08/04/04 21:29
QC259907	TCMX	GC16	A	08/04/04 21:29
QC259907	Decachlorobiphenyl	GC16	A	08/04/04 21:29
QC259908	gamma-BHC	GC16	A	08/05/04 01:02
QC259908	Heptachlor	GC16	A	08/05/04 01:02
QC259908	Aldrin	GC16	A	08/05/04 01:02
QC259908	Dieldrin	GC16	A	08/05/04 01:02
QC259908	Endrin	GC16	A	08/05/04 01:02
QC259908	4,4'-DDT	GC16	A	08/05/04 01:02
QC259908	TCMX	GC16	A	08/05/04 01:02
QC259908	Decachlorobiphenyl	GC16	A	08/05/04 01:02

Reporting Summary for 173773 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC259909	gamma-BHC	GC16	A	08/05/04 01:33
QC259909	Heptachlor	GC16	A	08/05/04 01:33
QC259909	Aldrin	GC16	A	08/05/04 01:33
QC259909	Dieldrin	GC16	A	08/05/04 01:33
QC259909	Endrin	GC16	A	08/05/04 01:33
QC259909	4,4'-DDT	GC16	A	08/05/04 01:33
QC259909	TCMX	GC16	A	08/05/04 01:33
QC259909	Decachlorobiphenyl	GC16	A	08/05/04 01:33

Curtis & Tompkins Laboratories **Sample Preparation Summary** **03-AUG-2004 14:08**

Batch Number : 93420
Date Extracted: 03-AUG-2004
Extracted by : Brook N. Buswell
Prep Method : 3550

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993B
Spike #2 ID : 04WS0840C
Spike #3 ID :
SOP Version : 8081s_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173735-006			Tetra Tech FW	Soil	29.78	g	20	0.671592	1		.02	0		8081	3620B	
173735-007			Tetra Tech FW	Soil	29.81	g	20	0.670916	1		.02	0		8081	3620B	mss
173735-008			Tetra Tech FW	Soil	30.48	g	20	0.656168	1		.02	0		8081	3620B	
173735-009			Tetra Tech FW	Soil	29.57	g	20	0.676361	1		.02	0		8081	3620B	
173735-010			Tetra Tech FW	Soil	29.67	g	20	0.674082	1		.02	0		8081	3620B	
173735-011			Tetra Tech FW	Soil	29.59	g	20	0.675904	1		.02	0		8081	3620B	
173773-001			Treadwell & Rollo	Soil	29.51	g	20	0.677736	1		.02	0		8081	3620B	
173773-002			Treadwell & Rollo	Soil	29.84	g	20	0.670241	1		.02	0		8081	3620B	
173773-003			Treadwell & Rollo	Soil	29.56	g	20	0.676590	1		.02	0		8081	3620B	
173773-004			Treadwell & Rollo	Soil	29.61	g	20	0.675447	1		.02	0		8081	3620B	
173773-005			Treadwell & Rollo	Soil	29.53	g	20	0.677277	1		.02	0		8081	3620B	
QC259906	MB			Soil	29.65	g	20	0.674536	1		.02	0		8081	3620B	
QC259907	LCS			Soil	30.34	g	20	0.659196	1		.02	1		8081	3620B	
QC259908	MS	of 173735-007		Soil	29.86	g	20	0.669792	1		.02	1		8081	3620B	
QC259909	MSD	of 173735-007		Soil	29.94	g	20	0.668003	1		.02	1		8081	3620B	

CW 8/5/04

Prep Chemist: [signature] 8/3/04 Reviewed By: Cora Weese Date: 8/3/04

Relinquished By: [signature] 8/3/04 Received By: CW Date: 8/3/04

10027

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 93420
LIMS Analysis: 8081
Extracted by: BB
Date Extracted: 8/3/04

Extraction Method:
☒ EPA 3550b Sonication
☐ EPA 3545 PFE (Mth#_____)
☐ EPA 3540c Soxhlet
☐ _____

Cleanup Method:
☐ EPA 3640a GPC
☒ EPA 3620b Florisil
☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
173755-006 A	29.78	20.0	X	
-007	29.81			MSS
-008	30.48			
-009	29.57			
-010	29.67			
-011	29.59			
173773-001 A	~~29.65~~ 29.51			
-002	~~30.34~~ 29.84			
-003	29.56			
-004	29.61			
-005	29.53			
MBQC259906	29.65			
LCS 07	30.34			
MS 08	29.86			
MSD 09	29.94			
		BB 8/3/04		

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM331046	BB 8/3/04
dried with CH_2Cl_2-rinsed ☒ granular Na_2SO_4 ☐ diatomaceous earth	EM 44044416	
0.02 mL of surrogate solution was added to all samples	04WS0993B	
1.0 mL of spike solution was added to all spikes	04WS0840C	
1:1 CH_2Cl_2 (lot# EM 44161):Acetone(lot# EM 44148) was added to all	✓	
☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	NA	
Soxhlets on at:	NA	
Soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4 (BB 8/3/04) (granular)	✓	
Exchanged 2x with Hexane	BJCK898	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil	✓	

00028

8/3/04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

8/3/04

Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: BB

Cleanup Date: 8/3/04

Benchbook # **BK 1851**

Page 78

BB 8/3/04 Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
173773-001	93420	1.0	1.0	
173773-002				
-003				
-004				
-005				
173735-006				
-007				MS
-008				
-009				
-010				
-011				
MB QC25990G				
LCS 07				
MS 08				
MSD 09				

BB 8/3/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	Resprep 204120-AQ	BB 8/3/04
Florisil cartridges/ columns rinsed 3x with Hexane	✓ RJCK 898	
Extracts were eluted with 9 mL 9:1 Hexane/Acetone — Hexane	✓	
Acetone	EM43350	
Concentrated to volumes as noted above	✓	

Continued from page ____

Continued on page ____

Reviewed by / Date 8/3/04

PROJECT SOIL ALIQUOT

Continued From Page —

Sample ID	Analysis	Weight (g)	Comments
173773-0011A	PCB	29.61	
2		30.07	MSS
3		29.54	
4		29.53	
5		29.67	
173773-0015A	8081	29.51	
2		29.84	
3		29.56	
4		29.61	
5		29.53	
173735-0091A	PCB	30.22	
5		29.79	
MS	PCB	29.75	
MSD		29.63	

Continued on Page

Read and Understood By

Signed: [signature] Date: 8 3 04 Signed: Date:

PROJECT SOIL ALIQUOT

Notebook No. BK1964

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
173735-006A	29.78	8281	
-007	29.81		MSS
-008	30.48		
-009	29.57		
-010	29.67		
-011	29.59		
MB	29.65		EM433 10410
LCS	30.34		
MS	29.86		173735-007A
MSD	29.94		

JM 5/12/04

Continued on Page

Read and Understood By

Signed

Date

Pesticides by EPA 8081	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
EPA 3550 Soil MDLs (ug/Kg)	5/08/03	5/08/03	4/16/04	4/16/04	4/28/04	4/28/04
Aldrin	0.56	0.60	0.93	0.94	0.70	0.74
a-BHC	0.55	0.56	0.87	0.77	0.37	0.65
b-BHC	0.74	0.60	0.68	0.90	0.42	0.65
d-BHC	0.59	0.61	1.0	0.93	0.53	1.2
g-BHC (Lindane)	0.64	0.48	0.95	0.78	0.30	0.65
4,4'-DDD	0.66	0.63	1.9	1.8	0.72	0.71
4,4'-DDE	0.54	0.50	2.0	2.0	0.86	0.72
4,4'-DDT	1.2	0.74	2.7	2.2	1.8	0.58
alpha-Chlordane	0.61	0.57	0.99	1.0	0.71	0.55
gamma-Chlordane	0.57	0.55	0.97	1.0	0.78	0.63
Dieldrin	0.57	0.51	2.0	2.0	0.67	0.75
Endosulfan I	0.50	0.55	1.0	1.0	1.4	1.2
Endosulfan II	0.67	0.62	1.9	1.7	1.5	1.4
Endosulfan sulfate	0.68	0.66	1.8	1.8	1.2	0.69
Endrin	0.65	0.54	2.2	2.0	0.74	0.68
Endrin aldehyde	0.50	0.56	1.9	1.8	0.87	0.79
Endrin ketone	0.83	0.65	1.9	1.7	1.2	0.79
Heptachlor	0.76	0.67	1.3	1.1	0.30	0.64
Heptachlor epoxide	0.60	0.62	1.1	1.1	0.73	0.80
Methoxychlor	1.1	3.1	11	10	4.2	1.6

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/17/04	4/17/04	4/09/04	4/09/04	4/30/04	4/30/04
Chlordane (technical)	15	13	4.8	3.8	6.1	6.2

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/19/04	4/19/04	4/10/04	4/10/04	4/30/04	4/30/04
Toxaphene	25	18	29	12	36	15

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/02/04
Units:	ug/Kg	Received:	08/02/04
Diln Fac:	1.000	Prepared:	08/03/04
Batch#:	93426	Analyzed:	08/05/04

Field ID:	BB3EX101[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	6%
Lab ID:	173773-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	26
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	151 *	65-135
Decachlorobiphenyl	116	65-135

Field ID:	BB3EX102[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	1%
Lab ID:	173773-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	153 *	65-135
Decachlorobiphenyl	111	65-135

Field ID:	BB3EX103[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	3%
Lab ID:	173773-003	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	25
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	148 *	65-135
Decachlorobiphenyl	116	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/02/04
Units:	ug/Kg	Received:	08/02/04
Diln Fac:	1.000	Prepared:	08/03/04
Batch#:	93426	Analyzed:	08/05/04

Field ID:	BB3EX104[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	2%
Lab ID:	173773-004	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	25
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	141 *	65-135
Decachlorobiphenyl	110	65-135

Field ID:	BB3EX105[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	2%
Lab ID:	173773-005	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	25
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	148 *	65-135
Decachlorobiphenyl	108	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC259936	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	141 *	65-135
Decachlorobiphenyl	113	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC259937	Batch#:	93426
Matrix:	Soil	Prepared:	08/03/04
Units:	ug/Kg	Analyzed:	08/05/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.1	174.2	106	80-129
Aroclor-1260	164.1	175.1	107	80-131

Surrogate	%REC	Limits
TCMX	140 *	65-135
Decachlorobiphenyl	106	65-135

*= Value outside of QC limits; see narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX102[0.5]	Batch#:	93426
MSS Lab ID:	173773-002	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	ug/Kg	Prepared:	08/03/04
Basis:	dry	Analyzed:	08/05/04
Diln Fac:	1.000		

Type:	MS	Moisture:	1%
Lab ID:	QC259938	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<9.091	169.8	193.9	114	65-155
Aroclor-1260	<4.040	169.8	191.4	113	63-127

Surrogate	%REC	Limits
TCMX	146 *	65-135
Decachlorobiphenyl	103	65-135

Type:	MSD	Moisture:	1%
Lab ID:	QC259939	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	170.5	188.1	110	65-155	3	27
Aroclor-1260	170.5	180.3	106	63-127	6	34

Surrogate	%REC	Limits
TCMX	141 *	65-135
Decachlorobiphenyl	96	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

12.0

INITIAL CALIBRATION REPORT FOR 173773 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	215_013	204310220013	pcb10_2	02-AUG-2004 21:40	04WS0970
2	215_014	204310220014	pcb25_5	02-AUG-2004 22:13	04WS0960
3	215_015	204310220015	pcb100_20	02-AUG-2004 22:46	04WS0961
4	215_016	204310220016	pcb250_50	02-AUG-2004 23:19	04WS0962
5	215_017	204310220017	pcb500_100	02-AUG-2004 23:52	04WS0963
6	215_018	204310220018	pcb750_150	03-AUG-2004 00:25	04WS0964
7	215_019	204310220019	pcb1K_200	03-AUG-2004 00:59	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	222.19	249.72	232.92	240.39	205.76	174.68	193.06	AVRG	R		0.004609		pg	216.96	12	.99	20	
Aroclor-1016 Peak # 2	A	562.53	501.92	460.15	463.25	377.78	318.34	349.18	AVRG	R		0.002308		pg	433.31	20	.99	20	
Aroclor-1016 Peak # 3	A	484.79	515.26	522.06	533.70	436.50	367.63	418.20	AVRG	R		0.002135		pg	468.31	13	.99	20	
Aroclor-1016 Peak # 4	A	311.49	350.77	348.34	364.70	297.87	262.44	298.62	AVRG	R		0.003133		pg	319.17	11	.99	20	
Aroclor-1016 Peak # 5	A	272.20	286.48	281.40	288.62	237.23	198.13	226.63	AVRG	R		0.003909		pg	255.81	14	.99	20	
Aroclor-1260 Peak # 1	A	534.49	557.25	558.61	543.99	422.20	344.29	396.21	AVRG	R		0.002085		pg	479.58	19	.99	20	
Aroclor-1260 Peak # 2	A	904.42	888.70	849.86	860.45	672.00	546.32	638.04	AVRG	R		0.001306		pg	765.68	19	.99	20	
Aroclor-1260 Peak # 3	A	480.31	419.58	458.34	454.57	367.56	297.31	349.09	AVRG	R		0.002476		pg	403.82	17	.99	20	
Aroclor-1260 Peak # 4	A	363.33	365.28	397.28	433.25	344.26	284.33	341.69	AVRG	R		0.002767		pg	361.35	13	.99	20	
Aroclor-1260 Peak # 5	A	868.22	928.30	936.04	985.95	789.30	648.83	768.31	AVRG	R		0.001181		pg	846.42	14	.99	20	
TCMX	A	9152.2	9977.5	9263.6	9902.9	8412.0	7286.0	8156.7	AVRG	R		1.126E-4		pg	8878.7	11	.99	20	
Decachlorobiphenyl	A	10877	10709	9872.1	12832	7437.8			AVRG	R		9.666E-5		pg	10346	19	.99	20	
Aroclor-1016 Peak # 1	B	242.83	242.17	239.76	258.59	221.85	183.59	206.89	AVRG	R		0.004387		pg	227.95	11	.99	20	
Aroclor-1016 Peak # 2	B	301.07	317.39	329.13	342.65	279.81	238.92	270.55	AVRG	R		0.003366		pg	297.07	12	.99	20	
Aroclor-1016 Peak # 3	B	1225.7	1232.9	1179.3	1198.8	944.96	806.07	890.17	AVRG	R		9.361E-4		pg	1068.3	17	.99	20	
Aroclor-1016 Peak # 4	B	465.77	502.61	466.00	483.84	385.83	333.37	369.79	AVRG	R		0.002328		pg	429.60	15	.99	20	
Aroclor-1016 Peak # 5	B	322.46	326.55	314.99	326.70	268.97	229.90	262.36	AVRG	R		0.003411		pg	293.13	13	.99	20	
Aroclor-1260 Peak # 1	B	804.92	843.20	864.53	921.86	729.59	623.19	723.59	AVRG	R		0.001270		pg	787.27	13	.99	20	
Aroclor-1260 Peak # 2	B	1254.5	1305.5	1297.8	1345.0	1066.2	886.63	1041.3	AVRG	R		8.540E-4		pg	1171.0	15	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173773 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	836.14	872.35	845.26	901.05	740.38	622.22	753.05	AVRG	R		0.001257		pg	795.78	12	.99	20	
Aroclor-1260 Peak # 4	B	708.28	658.49	677.16	709.83	592.01	499.26	605.88	AVRG	R		0.001573		pg	635.85	12	.99	20	
Aroclor-1260 Peak # 5	B	1689.9	1627.7	1611.2	1813.1	1468.9	1232.9	1501.8	AVRG	R		6.395E-4		pg	1563.6	12	.99	20	
TCMX	B	10333	11533	11102	11785	9884.1	8500.3	9395.7	AVRG	R		9.651E-5		pg	10362	12	.99	20	
Decachlorobiphenyl	B	12402	11918	11586	15972	9357.4			AVRG	R		8.165E-5		pg	12247	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT FOR 173773 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb500_100 IDF : 1.0
Seqnum : 204311979058 Filename : 216_058 Injected : 04-AUG-2004 23:34
Calnum : 204310220001 Caldate : 02-AUG-2004 Caltype :
Standards: 04WS0963

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	530.1607	pg	6	15	
Aroclor-1260	A			500.0000	540.7498	pg	8	15	
TCMX	A	8878.7	10079	100.0000	113.5160	pg	14	15	
Decachlorobiphenyl	A	10346	8818.9	100.0000	85.24363	pg	-15	15	
Aroclor-1016	B			500.0000	531.9387	pg	6	15	
Aroclor-1260	B			500.0000	542.7793	pg	9	15	
TCMX	B	10362	11352	100.0000	109.5583	pg	10	15	
Decachlorobiphenyl	B	12247	10414	100.0000	85.03536	pg	-15	15	

CONTINUING CALIBRATION REPORT FOR 173773 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb250_50 IDF : 1.0
Seqnum : 204311979073 Filename : 216_073 Injected : 05-AUG-2004 07:52
Calnum : 204310220001 Caldate : 02-AUG-2004 Caltype :
Standards: 04WS0962

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags	
Aroclor-1016	A			250.0000	275.1438	pg	10	15		
Aroclor-1260	A			250.0000	284.6446	pg	14	15		
TCMX	A	8878.7	10188	50.00000	57.37115	pg	15	15		
Decachlorobiphenyl	A	10346	13462	50.00000	65.06169	pg	30	15	c+	pass
Aroclor-1016	B			250.0000	263.7062	pg	5	15		
Aroclor-1260	B			250.0000	265.6116	pg	6	15		
TCMX	B	10362	11277	50.00000	54.41661	pg	9	15		
Decachlorobiphenyl	B	12247	15500	50.00000	63.27997	pg	27	15	c+	pass

Meet client specific limits 65-135%

+=high bias c=CCV

SEQUENCE SUMMARY FOR 173773 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204310220 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
002	215_002	X	ccv			02-AUG-2004 10:20	1.0					1	
003	215_003	CCV	pcb250_50			02-AUG-2004 10:53	1.0		1			1	
012	215_012	X	hex			02-AUG-2004 21:06	1.0						
013	215_013	ICAL	pcb10_2			02-AUG-2004 21:40	1.0					2	
014	215_014	ICAL	pcb25_5			02-AUG-2004 22:13	1.0					3	
015	215_015	ICAL	pcb100_20			02-AUG-2004 22:46	1.0					4	
016	215_016	ICAL	pcb250_50			02-AUG-2004 23:19	1.0					1	
017	215_017	ICAL	pcb500_100			02-AUG-2004 23:52	1.0					5	
018	215_018	ICAL	pcb750_150			03-AUG-2004 00:25	1.0					6	
019	215_019	ICAL	pcb1K_200			03-AUG-2004 00:59	1.0					7	
021	215_021	ICV	accu_1660			03-AUG-2004 02:05	1.0		1			8	
022	215_022	X	icv			03-AUG-2004 02:38	1.0					8	
023	215_023	X	icv			03-AUG-2004 03:11	1.0					9	
026	215_026	ICAL	pcb250_50			03-AUG-2004 12:25	1.0					1	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173773 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
005	216_005	X	pcb250_50			03-AUG-2004 15:39	1.0					1	
006	216_006	X	ccv			03-AUG-2004 16:13	1.0					1	
007	216_007	CCV	ccv			03-AUG-2004 17:28	1.0	1.0			1	1	
009	216_009	CCV	ar1254			03-AUG-2004 18:34	1.0	1.0			1	2	
010	216_010	X	ccv			03-AUG-2004 19:07	1.0					2	
011	216_011	CCV	ar1232			03-AUG-2004 19:40	1.0	1.0			1	3	
012	216_012	X	ccv			03-AUG-2004 20:13	1.0					3	
014	216_014	BLANK	QC259712	93370	Water	03-AUG-2004 21:20	1.0	0.025			1		
015	216_015	BS	QC259713	93370	Water	03-AUG-2004 21:53	1.0	0.025			1		
016	216_016	BSD	QC259714	93370	Water	03-AUG-2004 22:26	1.0	0.025			1		
017	216_017	MS	QC259816	93396	Soil	03-AUG-2004 22:59	1.0	0.8273		1	1		
018	216_018	MSD	QC259817	93396	Soil	03-AUG-2004 23:33	1.0	0.8325			1		
019	216_019	MS	QC259620	93346	Soil	04-AUG-2004 00:06	1.0	0.8344			1		
020	216_020	MSD	QC259621	93346	Soil	04-AUG-2004 00:39	1.0	0.8412			1		
021	216_021	SAMPLE	173688-013	93318	Soil	04-AUG-2004 01:12	1.0	0.8401			1	spk	
022	216_022	SAMPLE	173701-001	93370	Water	04-AUG-2004 01:45	1.0	0.02404			1		
023	216_023	SAMPLE	173703-001	93370	Water	04-AUG-2004 02:19	1.0	0.02404			1		
025	216_025	CCV	pcb500_100			04-AUG-2004 03:25	1.0	1.0			1	4	
026	216_026	X	ccv			04-AUG-2004 03:58	1.0					4	
027	216_027	CCV	ar1254			04-AUG-2004 04:31	1.0	1.0			1	2	
028	216_028	X	ccv			04-AUG-2004 05:04	1.0					2	
029	216_029	CCV	ar1232			04-AUG-2004 05:38	1.0	1.0			1	3	
030	216_030	X	ccv			04-AUG-2004 06:11	1.0					3	
032	216_032	SAMPLE	173704-001	93370	Water	04-AUG-2004 07:17	1.0	0.02427			1		
033	216_033	SAMPLE	173724-001	93370	Water	04-AUG-2004 07:50	1.0	0.02451		4	1		
034	216_034	SAMPLE	173735-012	93370	Water	04-AUG-2004 08:23	1.0	0.02381			1		
035	216_035	SAMPLE	173735-013	93370	Water	04-AUG-2004 08:57	1.0	0.02381			1		
036	216_036	SAMPLE	173748-006	93370	Water	04-AUG-2004 09:30	1.0	0.02381			1		
037	216_037	SAMPLE	173752-001	93370	Water	04-AUG-2004 10:03	1.0	0.02381			1		
038	216_038	SAMPLE	173752-002	93370	Water	04-AUG-2004 10:36	1.0	0.02451			1		

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173773 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	216_039	MS	QC259816	93396	Soil	04-AUG-2004 11:33	1.0	0.8273			1		
040	216_040	MSD	QC259817	93396	Soil	04-AUG-2004 12:06	1.0	0.8325			1		
041	216_041	SAMPLE	173724-002	93396	Soil	04-AUG-2004 12:39	1.0	0.8331			1		
043	216_043	CCV	pcb250_50			04-AUG-2004 13:46	1.0	1.0			1	1	
048	216_048	SAMPLE	173724-001	93370	Water	04-AUG-2004 16:37	1.0	0.02451		3	1		
049	216_049	LCS	QC259619	93346	Soil	04-AUG-2004 18:35	1.0	0.8472			1		
050	216_050	SAMPLE	173728-001	93346	Soil	04-AUG-2004 19:09	1.0	0.835		1	1		
051	216_051	BLANK	QC260156	93482	Soil	04-AUG-2004 19:42	1.0	0.8378		2	1		
052	216_052	LCS	QC260157	93482	Soil	04-AUG-2004 20:15	1.0	0.8297		2	1		
053	216_053	MS	QC260158	93482	Soil	04-AUG-2004 20:48	1.0	0.8475		2	1		
054	216_054	MSD	QC260159	93482	Soil	04-AUG-2004 21:21	1.0	0.821		2	1		
055	216_055	MSS	173824-001	93482	Soil	04-AUG-2004 21:54	1.0	0.8317		2	1		
056	216_056	SAMPLE	173825-001	93482	Soil	04-AUG-2004 22:27	1.0	0.842		2	1		
058	216_058	CCV	pcb500_100			04-AUG-2004 23:34	1.0	1.0			1	4	
059	216_059	X	ccv			05-AUG-2004 00:07	1.0					4	
063	216_063	BLANK	QC259936	93426	Soil	05-AUG-2004 02:20	1.0	0.8289		2	1		
064	216_064	LCS	QC259937	93426	Soil	05-AUG-2004 02:53	1.0	0.8207		1	1		
065	216_065	MS	QC259938	93426	Soil	05-AUG-2004 03:26	1.0	0.8403		2	1		
066	216_066	MSD	QC259939	93426	Soil	05-AUG-2004 03:59	1.0	0.8437		2	1		
067	216_067	SAMPLE	173773-001	93426	Soil	05-AUG-2004 04:33	1.0	0.8443		2	1		
068	216_068	MSS	173773-002	93426	Soil	05-AUG-2004 05:06	1.0	0.8314		2	1		
069	216_069	SAMPLE	173773-003	93426	Soil	05-AUG-2004 05:39	1.0	0.8463		2	1		
070	216_070	SAMPLE	173773-004	93426	Soil	05-AUG-2004 06:12	1.0	0.8466		2	1		
071	216_071	SAMPLE	173773-005	93426	Soil	05-AUG-2004 06:46	1.0	0.8426		2	1		
073	216_073	CCV	pcb250_50			05-AUG-2004 07:52	1.0	1.0			1	1	
074	216_074	X	ccv			05-AUG-2004 08:25	1.0					1	

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963
Flags used: spk=5% spike rule

Reporting Summary for 173773 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173773-001	Aroclor-1016	GC06	B	08/05/04 04:33
173773-001	Aroclor-1221	GC06	A	08/05/04 04:33
173773-001	Aroclor-1232	GC06	A	08/05/04 04:33
173773-001	Aroclor-1242	GC06	A	08/05/04 04:33
173773-001	Aroclor-1248	GC06	A	08/05/04 04:33
173773-001	Aroclor-1254	GC06	A	08/05/04 04:33
173773-001	Aroclor-1260	GC06	B	08/05/04 04:33
173773-001	TCMX	GC06	B	08/05/04 04:33
173773-001	Decachlorobiphenyl	GC06	B	08/05/04 04:33
173773-002	Aroclor-1016	GC06	B	08/05/04 05:06
173773-002	Aroclor-1221	GC06	A	08/05/04 05:06
173773-002	Aroclor-1232	GC06	A	08/05/04 05:06
173773-002	Aroclor-1242	GC06	A	08/05/04 05:06
173773-002	Aroclor-1248	GC06	A	08/05/04 05:06
173773-002	Aroclor-1254	GC06	A	08/05/04 05:06
173773-002	Aroclor-1260	GC06	B	08/05/04 05:06
173773-002	TCMX	GC06	B	08/05/04 05:06
173773-002	Decachlorobiphenyl	GC06	B	08/05/04 05:06
173773-003	Aroclor-1016	GC06	B	08/05/04 05:39
173773-003	Aroclor-1221	GC06	A	08/05/04 05:39
173773-003	Aroclor-1232	GC06	A	08/05/04 05:39
173773-003	Aroclor-1242	GC06	A	08/05/04 05:39
173773-003	Aroclor-1248	GC06	A	08/05/04 05:39
173773-003	Aroclor-1254	GC06	A	08/05/04 05:39
173773-003	Aroclor-1260	GC06	B	08/05/04 05:39
173773-003	TCMX	GC06	B	08/05/04 05:39
173773-003	Decachlorobiphenyl	GC06	B	08/05/04 05:39
173773-004	Aroclor-1016	GC06	B	08/05/04 06:12
173773-004	Aroclor-1221	GC06	A	08/05/04 06:12
173773-004	Aroclor-1232	GC06	A	08/05/04 06:12
173773-004	Aroclor-1242	GC06	A	08/05/04 06:12
173773-004	Aroclor-1248	GC06	A	08/05/04 06:12
173773-004	Aroclor-1254	GC06	A	08/05/04 06:12
173773-004	Aroclor-1260	GC06	B	08/05/04 06:12
173773-004	TCMX	GC06	B	08/05/04 06:12
173773-004	Decachlorobiphenyl	GC06	B	08/05/04 06:12
173773-005	Aroclor-1016	GC06	B	08/05/04 06:46
173773-005	Aroclor-1221	GC06	A	08/05/04 06:46
173773-005	Aroclor-1232	GC06	A	08/05/04 06:46
173773-005	Aroclor-1242	GC06	A	08/05/04 06:46
173773-005	Aroclor-1248	GC06	A	08/05/04 06:46
173773-005	Aroclor-1254	GC06	A	08/05/04 06:46
173773-005	Aroclor-1260	GC06	B	08/05/04 06:46
173773-005	TCMX	GC06	B	08/05/04 06:46
173773-005	Decachlorobiphenyl	GC06	B	08/05/04 06:46
QC259936	Aroclor-1016	GC06	B	08/05/04 02:20
QC259936	Aroclor-1221	GC06	B	08/05/04 02:20
QC259936	Aroclor-1232	GC06	B	08/05/04 02:20
QC259936	Aroclor-1242	GC06	B	08/05/04 02:20

Reporting Summary for 173773 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC259936	Aroclor-1248	GC06	B	08/05/04 02:20
QC259936	Aroclor-1254	GC06	B	08/05/04 02:20
QC259936	Aroclor-1260	GC06	B	08/05/04 02:20
QC259936	TCMX	GC06	B	08/05/04 02:20
QC259936	Decachlorobiphenyl	GC06	B	08/05/04 02:20
QC259937	Aroclor-1016	GC06	B	08/05/04 02:53
QC259937	Aroclor-1260	GC06	B	08/05/04 02:53
QC259937	TCMX	GC06	B	08/05/04 02:53
QC259937	Decachlorobiphenyl	GC06	B	08/05/04 02:53
QC259938	Aroclor-1016	GC06	B	08/05/04 03:26
QC259938	Aroclor-1260	GC06	B	08/05/04 03:26
QC259938	TCMX	GC06	B	08/05/04 03:26
QC259938	Decachlorobiphenyl	GC06	B	08/05/04 03:26
QC259939	Aroclor-1016	GC06	B	08/05/04 03:59
QC259939	Aroclor-1260	GC06	B	08/05/04 03:59
QC259939	TCMX	GC06	B	08/05/04 03:59
QC259939	Decachlorobiphenyl	GC06	B	08/05/04 03:59

Curtis & Tompkins Laboratories **Sample Preparation Summary** **03-AUG-2004 19:22**

Batch Number : 93426
Date Extracted: 03-AUG-2004
Extracted by : Kevin Riley
Prep Method : 3550

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993A
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173718-011			Basland, Bouck & Lee, Inc.	Soil	29.66	g	25	0.842886	1	.05	0		PCB	3665A	
173718-012			Basland, Bouck & Lee, Inc.	Soil	29.83	g	25	0.838082	1	.05	0		PCB	3665A	
173718-013			Basland, Bouck & Lee, Inc.	Soil	29.6	g	25	0.844595	1	.05	0		PCB	3665A	
173718-014			Basland, Bouck & Lee, Inc.	Soil	29.73	g	25	0.840901	1	.05	0		PCB	3665A	
173718-015			Basland, Bouck & Lee, Inc.	Soil	29.65	g	25	0.843170	1	.05	0		PCB	3665A	
173718-016			Basland, Bouck & Lee, Inc.	Soil	29.63	g	25	0.843739	1	.05	0		PCB	3665A	
173718-017			Basland, Bouck & Lee, Inc.	Soil	29.97	g	25	0.834168	1	.05	0		PCB	3665A	
173718-018			Basland, Bouck & Lee, Inc.	Soil	30.03	g	25	0.832501	1	.05	0		PCB	3665A	
173718-019			Basland, Bouck & Lee, Inc.	Soil	29.69	g	25	0.842034	1	.05	0		PCB	3665A	
173718-020			Basland, Bouck & Lee, Inc.	Soil	29.87	g	25	0.836960	1	.05	0		PCB	3665A	
173735-004			Tetra Tech FW	Soil	30.22	g	25	0.827267	1	.05	0		PCB	3665A	
173735-005			Tetra Tech FW	Soil	29.79	g	25	0.839208	1	.05	0		PCB	3665A	
173762-001			URS Corporation	Soil	29.82	g	25	0.838364	1	.05	0		PCB	3665A	
173762-002			URS Corporation	Soil	29.54	g	25	0.846310	1	.05	0		PCB	3665A	
173762-003			URS Corporation	Soil	30	g	25	0.833333	1	.05	0		PCB	3665A	
173773-001			Treadwell & Rollo	Soil	29.61	g	25	0.844309	1	.05	0		PCB	3665A	
173773-002			Treadwell & Rollo	Soil	30.07	g	25	0.831393	1	.05	0		PCB	3665A	mss
173773-003			Treadwell & Rollo	Soil	29.54	g	25	0.846310	1	.05	0		PCB	3665A	
173773-004			Treadwell & Rollo	Soil	29.53	g	25	0.846597	1	.05	0		PCB	3665A	
173773-005			Treadwell & Rollo	Soil	29.67	g	25	0.842602	1	.05	0		PCB	3665A	
QC259936	MB			Soil	30.16	g	25	0.828912	1	.05	0		PCB	3665A	
QC259937	LCS			Soil	30.46	g	25	0.820749	1	.05	.05		PCB	3665A	
QC259938	MS	of 173773-002		Soil	29.75	g	25	0.840336	1	.05	.05		PCB	3665A	
QC259939	MSD	of 173773-002		Soil	29.63	g	25	0.843739	1	.05	.05		PCB	3665A	

Prep Chemist: Kevin Riley Reviewed By: [signature] Date: 8/3/04

Relinquished By: Kevin Riley Received By: [signature] Date: 8/4/04

00047

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

LIMS Batch No: 93426
LIMS Analysis PCB
Extracted by: KR
Date Extracted: 8.3.04

☑ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ EPA 3545 PFE (ASE Method# _____)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
MB QC 259936	30.16	25.0	
LCS 37	30.46	↓	
MS 38	29.75	↓	
MSD 39	29.63	↓	
173718-011:A	29.66	↓	
12	29.83	↓	
13	29.60	↓	
14	29.73	↓	
15	29.65	↓	
16	29.63	↓	
17	29.97	↓	
18	30.03	↓	
19	29.69	↓	
20	29.87	↓	
173735-004:A	30.22	↓	
5	29.79	↓	
173762-001:comp A-D	29.82	↓	
2	29.54	↓	
3	30.00	↓	
173773-001:A	29.61	↓	
2	30.07	↓	MSS
3	29.54	↓	
4	29.53	↓	
5	29.67	↓	

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM433104 16	KR 8.3.04
dried with CH_2Cl_2-rinsed ☑ ~~granular~~ POWDER Na_2SO_4 ☐ diatomaceous earth	JTB A17450	↓
0.05 mL of surrogate solution was added to all samples	04WS0993 A	↓
0.05 mL of spike solution 1660_SPK was added to all spikes	04WS1320 A	↓
1:1 CH_2Cl_2 (lot# EM44161):Acetone(lot# EM44148) was added to all	✓	↓
☑ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	↓
ASE Cellulose Filters used:	NA	↓
PFE (ASE) / soxhlets on at:	↓	↓
PFE (ASE) / soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	EM44044910	↓
Concentrated to volumes noted above after exchange to Hexane Lot#	B&J CK898	↓
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTB X26046	↓
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	↓

Kr 8/3/04
Extraction Chemist / Date

Continued from page —
Continued on page —

8/3/04
Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. BK1964

Continued From Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	COMMENTS
173718-001A	30.07	PCB	
-002	29.67		
-003	29.78		
-004	29.84		
-005	29.82		
-006	29.56		
-007	29.75		
-008	30.22		
-009	29.88		
-010	29.79		
-011	29.66		
-012	29.83		
-013	29.60		
-014	29.73		
-015	29.65		
-016	29.63		
-017	29.97		
-018	30.03		
-019	29.69		
-020	29.87		MSS
-021	29.74		
-022	30.44		
-023	29.70		
-024	29.75		
-025	30.01		
-026	29.98		
MB	30.16		EM43310410
LCS	30.46		↓
MS	30.06		173718-020A
MSD	29.82		↓

JPD
8/1/04

Continued on Page

Read and Understood By

Jennifer Dell
Signed

8/1/04
Date

Signed

PROJECT SOIL ALIQUOT

Continued From Page —

Sample ID	Analysis	Weight (g)	Comments
173773-001:A	PCB	29.61	
2		30.07	MSS
3		29.54	
4		29.53	
5		29.67	
173773-001:A	8081	29.51	
2		29.84	
3		29.56	
4		29.61	
5		29.53	
173735-004:A	PCB	30.22	
5		29.79	
MS	PCB	29.75	
MSD		29.63	
173762-001 comp	PCB	29.82	
2		29.59	
3		30.00	

Continued on Page

Read and Understood By

Signed: [signature] Date: 8 3 04 Signed: Date:

10050

PCBs	GC_06a	GC_06b	GC_22a	GC_22b
Soil MDLs (ug/Kg)	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1016	3.9	9.0	2.2	2.4

	GC_06a	GC_06b	GC_22a	GC_22b
	4/10/04	4/10/04	4/19/04	4/19/04
Aroclor 1221	18	15	12	12

	GC_06a	GC_06b	GC_22a	GC_22b
	2/18/04	2/18/04	2/17/04	2/17/04
Aroclor 1232	4.0	4.8	8.5	8.8

	GC_06a	GC_06b	GC_14a	GC_14b	GC_22a	GC_22b
	2/18/04	2/18/04	5/04/04	5/04/04	1/15/04	1/15/04
Aroclor 1242	5.5	5.1	4.1	3.5	3.2	1.9

	GC_06a	GC_06b	GC_22a	GC_22b
	12/11/03	12/11/03	1/23/04	1/23/04
Aroclor 1248	3.1	3.4	3.2	7.8

	GC_06a	GC_06b	GC_22a	GC_22b
	8/12/03	8/12/03	7/26/03	7/26/03
Aroclor 1254	5.4	3.2	2.6	1.8

	GC_06a	GC_06b	GC_22a	GC_22b
	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1260	3.9	3.9	1.7	4.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX101[0.5]	Batch#:	93417
Lab ID:	173773-001	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	dry	Analyzed:	08/03/04
Diln Fac:	1.000		

Moisture: 6%

Analyte	Result	RL
Antimony	ND	3.2
Arsenic	4.7	0.27
Barium	190	0.54
Beryllium	0.47	0.11
Cadmium	0.38	0.27
Chromium	90	0.54
Cobalt	9.6	1.1
Copper	19	0.54
Lead	4.8	0.16
Molybdenum	ND	1.1
Nickel	69	1.1
Selenium	0.42	0.27
Silver	ND	0.27
Thallium	ND	0.27
Vanadium	68	0.54
Zinc	46	1.1

ND= Not Detected
RL= Reporting Limit

2.1

00053

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX102[0.5]	Batch#:	93417
Lab ID:	173773-002	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	dry	Analyzed:	08/03/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL
Antimony	ND	2.1
Arsenic	2.5	0.18
Barium	14	0.35
Beryllium	0.12	0.071
Cadmium	0.20	0.18
Chromium	50	0.35
Cobalt	5.1	0.71
Copper	4.2	0.35
Lead	8.7	0.11
Molybdenum	ND	0.71
Nickel	21	0.71
Selenium	0.31	0.18
Silver	ND	0.18
Thallium	ND	0.18
Vanadium	36	0.35
Zinc	26	0.71

ND= Not Detected
RL= Reporting Limit

3.1

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX103[0.5]	Batch#:	93417
Lab ID:	173773-003	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	dry	Analyzed:	08/03/04
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL
Antimony	ND	1.8
Arsenic	2.5	0.15
Barium	11	0.30
Beryllium	0.12	0.061
Cadmium	ND	0.15
Chromium	37	0.30
Cobalt	5.0	0.61
Copper	3.0	0.30
Lead	2.1	0.091
Molybdenum	ND	0.61
Nickel	20	0.61
Selenium	0.26	0.15
Silver	ND	0.15
Thallium	ND	0.15
Vanadium	27	0.30
Zinc	20	0.61

ND= Not Detected
RL= Reporting Limit

4.1

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX104[0.5]	Batch#:	93417
Lab ID:	173773-004	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	dry	Analyzed:	08/03/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL
Antimony	ND	2.4
Arsenic	2.8	0.20
Barium	11	0.40
Beryllium	0.15	0.080
Cadmium	ND	0.20
Chromium	42	0.40
Cobalt	4.8	0.80
Copper	2.9	0.40
Lead	1.5	0.12
Molybdenum	ND	0.80
Nickel	17	0.80
Selenium	ND	0.20
Silver	ND	0.20
Thallium	ND	0.20
Vanadium	37	0.40
Zinc	15	0.80

ND= Not Detected
RL= Reporting Limit

5.1

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX105[0.5]	Batch#:	93417
Lab ID:	173773-005	Sampled:	08/02/04
Matrix:	Soil	Received:	08/02/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	dry	Analyzed:	08/03/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL
Antimony	ND	3.4
Arsenic	3.0	0.28
Barium	12	0.57
Beryllium	0.16	0.11
Cadmium	ND	0.28
Chromium	46	0.57
Cobalt	5.0	1.1
Copper	3.6	0.57
Lead	5.5	0.17
Molybdenum	ND	1.1
Nickel	24	1.1
Selenium	0.45	0.28
Silver	ND	0.28
Thallium	ND	0.28
Vanadium	39	0.57
Zinc	19	1.1

ND= Not Detected
RL= Reporting Limit

6.1

90057

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC259891	Batch#:	93417
Matrix:	Soil	Prepared:	08/02/04
Units:	mg/Kg	Analyzed:	08/03/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

7.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93417
Units:	mg/Kg	Prepared:	08/02/04
Basis:	as received	Analyzed:	08/03/04
Diln Fac:	1.000		

Type: BS Lab ID: QC259892

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.0	101	75-125
Arsenic	50.00	51.50	103	75-125
Barium	100.0	96.00	96	75-125
Beryllium	2.500	2.635	105	75-125
Cadmium	10.00	9.750	98	75-125
Chromium	100.0	103.0	103	75-125
Cobalt	25.00	25.55	102	75-125
Copper	12.50	12.95	104	75-125
Lead	100.0	103.0	103	75-125
Molybdenum	20.00	20.45	102	75-125
Nickel	25.00	24.95	100	75-125
Selenium	50.00	51.00	102	75-125
Silver	10.00	10.40	104	75-125
Thallium	50.00	49.40	99	75-125
Vanadium	25.00	25.75	103	75-125
Zinc	25.00	25.35	101	75-125

Type: BSD Lab ID: QC259893

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.5	101	75-125	0	30
Arsenic	50.00	50.50	101	75-125	2	30
Barium	100.0	95.00	95	75-125	1	30
Beryllium	2.500	2.575	103	75-125	2	30
Cadmium	10.00	9.500	95	75-125	3	30
Chromium	100.0	100.5	101	75-125	2	30
Cobalt	25.00	24.90	100	75-125	3	30
Copper	12.50	12.70	102	75-125	2	30
Lead	100.0	100.0	100	75-125	3	30
Molybdenum	20.00	20.30	102	75-125	1	30
Nickel	25.00	24.35	97	75-125	2	30
Selenium	50.00	50.00	100	75-125	2	30
Silver	10.00	10.20	102	75-125	2	30
Thallium	50.00	48.10	96	75-125	3	30
Vanadium	25.00	25.15	101	75-125	2	30
Zinc	25.00	24.80	99	75-125	2	30

RPD= Relative Percent Difference

8.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173773	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	93417
MSS Lab ID:	173676-005	Sampled:	07/27/04
Matrix:	Soil	Received:	07/27/04
Units:	mg/Kg	Prepared:	08/02/04
Basis:	dry	Analyzed:	08/03/04
Diln Fac:	1.000		

Type: MS Moisture: 10%
Lab ID: QC259894

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	3.359	112.2	30.02	24 *	75-125
Arsenic	2.665	56.12	53.42	90	75-125
Barium	143.4	112.2	221.7	70 *	75-125
Beryllium	0.1797	2.806	2.694	90	75-125
Cadmium	1.336	11.22	10.10	78	75-125
Chromium	198.3	112.2	291.8	83	75-125
Cobalt	34.39	28.06	57.80	83	75-125
Copper	52.29	14.03	70.15	127 *	75-125
Lead	3.591	112.2	98.77	85	75-125
Molybdenum	0.5628	22.45	18.80	81	75-125
Nickel	350.8	28.06	305.3	-162 NM	75-125
Selenium	<0.1222	56.12	49.10	88	75-125
Silver	<0.02000	11.22	10.61	95	75-125
Thallium	<0.1089	56.12	44.11	79	75-125
Vanadium	75.16	28.06	110.5	126 *	75-125
Zinc	58.82	28.06	88.10	104	75-125

Type: MSD Moisture: 10%
Lab ID: QC259895

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	105.8	28.73	24 *	75-125	1	30
Arsenic	52.91	51.16	92	75-125	1	30
Barium	105.8	221.7	74 *	75-125	3	30
Beryllium	2.646	2.587	91	75-125	1	30
Cadmium	10.58	9.630	78	75-125	0	30
Chromium	105.8	275.7	73 *	75-125	4	30
Cobalt	26.46	56.08	82	75-125	0	30
Copper	13.23	67.20	113	75-125	3	30
Lead	105.8	95.77	87	75-125	3	30
Molybdenum	21.16	18.25	84	75-125	3	30
Nickel	26.46	284.7	-250 NM	75-125	7	30
Selenium	52.91	48.10	91	75-125	4	30
Silver	10.58	10.26	97	75-125	3	30
Thallium	52.91	43.86	83	75-125	5	30
Vanadium	26.46	100.5	96	75-125	8	30
Zinc	26.46	83.60	94	75-125	3	30

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

9.0

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74311440046
Filename : tr244097
IDF : 1.0
PDF : 32.68
Run type : MSS
Samplenum: 173676-005
Matrix : Soil
Batchnum : 93417
Inj : 03-AUG-2004 10:30
Units : mg/Kg

Instid : MET07
Seqnum : 74311440047
Filename : tr244099
IDF : 5.0
PDF : 32.68
Run type : SER
Samplenum: QC259896
Matrix : Soil
Batchnum : 93417
Inj : 03-AUG-2004 10:41

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	3.02	1.96	ND	9.80	--	10	u
Arsenic	2.40	0.163	2.06	0.817	--	10	r b*
Barium	129	0.327	119	1.63	8	10	u
Beryllium	0.162	0.0654	ND	0.327	--	10	u
Cadmium	1.20	0.163	ND	0.817	42	10	u
Calcium	*** usable MSS data not found ***						
Chromium	178	0.327	183	1.63	3	10	u
Cobalt	30.9	0.654	32.2	3.27	4	10	u
Copper	47.1	0.327	43.3	1.63	8	10	u
Iron	*** usable MSS data not found ***						
Lead	3.23	0.0980	3.27	0.490	1	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	*** usable MSS data not found ***						
Molybdenum	ND	0.654	ND	3.27	--	10	u
Nickel	316	0.654	335	3.27	6	10	u
Selenium	ND	0.163	ND	0.817	--	10	u
Silver	ND	0.163	ND	0.817	--	10	u
Thallium	ND	0.163	ND	0.817	--	10	u
Vanadium	67.6	0.327	67.6	1.63	0	10	u
Zinc	52.9	0.654	52.5	3.27	1	10	u
Titanium	*** usable MSS data not found ***						

b=noncompliant r=RSD out u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74311440046	Seqnum	: 74311440050
Filename	: tr244097	Filename	: tr244102
IDF	: 1.0	IDF	: 5.0
PDF	: 32.68	PDF	: 32.68
Run type	: MSS	Run type	: SER
Samplenum	: 173676-005	Samplenum	: QC259896
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93417	Batchnum	: 93417
Inj	: 03-AUG-2004 10:30	Inj	: 03-AUG-2004 10:56
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	3.02	1.96	ND	9.80	--	10	
Arsenic	2.40	0.163	2.16	0.817	--	10	u
Barium	129	0.327	118	1.63	8	10	
Beryllium	0.162	0.0654	ND	0.327	--	10	
Cadmium	1.20	0.163	ND	0.817	39	10	
Calcium	*** usable MSS data not found ***						
Chromium	178	0.327	178	1.63	0	10	
Cobalt	30.9	0.654	31.4	3.27	1	10	
Copper	47.1	0.327	42.8	1.63	9	10	
Iron	*** usable MSS data not found ***						
Lead	3.23	0.0980	3.27	0.490	1	10	
Magnesium	*** usable MSS data not found ***						
Manganese	*** usable MSS data not found ***						
Molybdenum	ND	0.654	ND	3.27	--	10	
Nickel	316	0.654	327	3.27	4	10	
Selenium	ND	0.163	ND	0.817	--	10	
Silver	ND	0.163	ND	0.817	--	10	
Thallium	ND	0.163	ND	0.817	--	10	
Vanadium	67.6	0.327	66.3	1.63	2	10	
Zinc	52.9	0.654	51.5	3.27	3	10	
Titanium	*** usable MSS data not found ***						

u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74311440046
Filename : tr244097
IDF : 1.0
PDF : 32.68
Run type : MSS
Samplenum: 173676-005
Matrix : Soil
Batchnum : 93417
Inj : 03-AUG-2004 10:30
Units : ug/L

Instid : MET07
Seqnum : 74311440053
Filename : tr244105
IDF : 1.0
PDF : 32.68
Run type : PDS
Samplenum: QC259897
Matrix : Soil
Batchnum : 93417
Inj : 03-AUG-2004 11:08

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	92.50	2000	2100	100	1-120	u
Arsenic	73.40	1000	1050	98	57-120	u
Barium	3950	2000	5900	98	52-134	u
Beryllium	4.950	49.999999999999	50.50	91	65-120	u
Cadmium	36.80	200	196.0	80	57-120	u
Calcium	*** usable MSS data not found ***					
Chromium	5460	2000	7120	83	55-120	u
Cobalt	947.0	499.999999999999	1350	81	52-120	u
Copper	1440	250	1670	92	47-143	: u
Iron	*** usable MSS data not found ***					
Lead	98.90	2000	1880	89	42-125	u
Magnesium	*** usable MSS data not found ***					
Manganese	*** usable MSS data not found ***					
Molybdenum	15.50	400	393.0	94	45-120	u
Nickel	9660	499.999999999999	9920	52	36-138	: u
Selenium	ND	1000	985.0	99	42-120	u
Silver	ND	200	203.0	102	66-120	u
Thallium	ND	1000	858.0	86	48-120	u
Vanadium	2070	499.999999999999	2480	82	45-136	: u
Zinc	1620	499.999999999999	2060	88	34-139	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

Method: 6010B Standard: blank
Run Time: 08/03/04 06:33:02

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.005	.001	-.000	.001	-.273	.004	.000
SDev	.002	.001	.000	.001	.001	.000	.000
%RSD	40.3	112.	396.	55.7	.193	10.3	41.9
#1	-.003	.000	-.000	.001	-.273	.004	.000
#2	-.006	.002	.000	.001	-.273	.003	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.005	.006	-.002	.001	.003	-.010
SDev	.000	.000	.001	.002	.001	.000	.001
%RSD	17.3	2.92	12.8	121.	151.	11.2	12.1
#1	-.001	.005	.005	-.000	-.000	.003	-.011
#2	-.001	.005	.007	-.003	.001	.003	-.009

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.005	-.000	-.004	.001	.030	.0545	-.0025
SDev	.002	.001	.000	.000	.000	.0001	.0001
%RSD	41.2	123.	3.45	6.82	.321	.2106	5.880
#1	.007	-.001	-.004	.001	.031	.0546	-.0024
#2	.004	-.000	-.004	.001	.030	.0544	-.0026

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0013	.0001	.001	.172
SDev	.0004	.0001	.000	.000
%RSD	31.94	235.0	29.3	.233
#1	-.0010	.0002	.001	.171
#2	-.0016	-.0000	.001	.172

Method: 6010B Standard: cst hi
Run Time: 08/03/04 06:36:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.37	.772	.299	15.2	2.68	1.11	.233
SDev	.01	.000	.001	.0	.01	.00	.000
%RSD	.494	.020	.246	.205	.271	.147	.064
#1	1.37	.772	.298	15.2	2.67	1.12	.233
#2	1.38	.772	.299	15.2	2.68	1.11	.233

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.755	.498	.914	.882	2.31	1.88	.343
SDev	.001	.001	.003	.004	.02	.00	.001
%RSD	.111	.242	.280	.400	1.02	.136	.224
#1	.754	.499	.916	.879	2.30	1.88	.343
#2	.756	.497	.912	.884	2.33	1.88	.344

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.370	.280	.212	.852	.206	.1589	.2908
SDev	.002	.001	.003	.000	.001	.0010	.0003
%RSD	.501	.209	1.26	.027	.225	.6202	.1032
#1	.369	.281	.210	.852	.206	.1596	.2906
#2	.372	.280	.214	.852	.206	.1582	.2911

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1179	.1667	1.09	6.69
SDev	.0000	.0003	.00	.00
%RSD	.0041	.1782	.066	.051
#1	.1179	.1665	1.09	6.70
#2	.1179	.1670	1.10	6.69

Standardization Report 08/03/04 06:40:02 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	721.078	3.50718	08/03/04 06:36:30
Sb206A	206.832	Multiple	Standards	1271.66	-1.49276	08/03/04 06:36:30
As1890	189.042	Multiple	Standards	1675.71	.188291	08/03/04 06:36:30
Ba4934	493.409	Multiple	Standards	65.7285	-.061382	08/03/04 06:36:30
Be3130	313.042	Multiple	Standards	32.7528	8.94186	08/03/04 06:36:30
Cd2265	226.502	Multiple	Standards	89.9804	-.339492	08/03/04 06:36:30
Cr2677	267.716	Multiple	Standards	861.365	-.297207	08/03/04 06:36:30
Co2286	228.616	Multiple	Standards	663.006	.672533	08/03/04 06:36:30
Cu3247	324.754	Multiple	Standards	405.625	-2.09374	08/03/04 06:36:30
Pb2203	220.351	Multiple	Standards	551.307	-3.30321	08/03/04 06:36:30
Pb220A	220.352	Multiple	Standards	561.034	.953646	08/03/04 06:36:30
Mo2020	202.030	Multiple	Standards	432.641	-.262500	08/03/04 06:36:30
Ni2316	231.604	Multiple	Standards	266.705	-.759809	08/03/04 06:36:30
Se1960	196.021	Multiple	Standards	1416.55	14.1665	08/03/04 06:36:30
Se196A	196.022	Multiple	Standards	1367.67	-6.91190	08/03/04 06:36:30
Ag3280	328.068	Multiple	Standards	356.802	.163185	08/03/04 06:36:30
Tl1908	190.864	Multiple	Standards	2337.72	8.77047	08/03/04 06:36:30
V_2924	292.402	Multiple	Standards	587.207	-.351274	08/03/04 06:36:30
Zn2138	213.856	Multiple	Standards	588.230	-17.9127	08/03/04 06:36:30
Al3082	308.215	Multiple	Standards	9753.50	-531.319	08/03/04 06:36:30
Ca3179	317.933	Multiple	Standards	6816.96	17.2108	08/03/04 06:36:30
Fe2714	271.441	Multiple	Standards	8780.66	11.3014	08/03/04 06:36:30
Mg2790	279.079	Multiple	Standards	11992.8	-.732847	08/03/04 06:36:30
Mn2576	257.610	Multiple	Standards	91.4336	-.075061	08/03/04 06:36:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/03/04 06:36:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/03/04 06:36:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/03/04 06:36:30
Ti3349	334.941	Multiple	Standards	153.331	-26.3389	08/03/04 06:36:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440001

Run Name :
Filename : tr244052

Injected : 03-AUG-2004 06:40
Caltype :

Standards: 04WS1252

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	994.3000	ug/L	-1	5	
Antimony	1000.000	987.0000	ug/L	-1	5	
Arsenic	500.0000	497.0000	ug/L	-1	5	
Barium	1000.000	986.0000	ug/L	-1	5	
Beryllium	100.0000	99.20000	ug/L	-1	5	
Cadmium	100.0000	99.20000	ug/L	-1	5	
Calcium	2000.000	1986.000	ug/L	-1	5	
Chromium	200.0000	198.0000	ug/L	-1	5	
Cobalt	500.0000	496.0000	ug/L	-1	5	
Copper	200.0000	197.0000	ug/L	-2	5	
Iron	1000.000	993.5000	ug/L	-1	5	
Lead	500.0000	496.0000	ug/L	-1	5	
Magnesium	2000.000	1990.000	ug/L	-1	5	
Manganese	100.0000	99.00000	ug/L	-1	5	
Molybdenum	1000.000	986.0000	ug/L	-1	5	
Nickel	500.0000	496.0000	ug/L	-1	5	
Selenium	500.0000	494.0000	ug/L	-1	5	
Silver	100.0000	99.00000	ug/L	-1	5	
Thallium	500.0000	489.0000	ug/L	-2	5	
Titanium	1000.000	989.0000	ug/L	-1	5	
Vanadium	500.0000	495.0000	ug/L	-1	5	
Zinc	100.0000	99.30000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440002

Run Name :
Filename : tr244053

Injected : 03-AUG-2004 06:44
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	495.2000	ug/L	-1	10	
Antimony	500.0000	506.0000	ug/L	1	10	
Arsenic	250.0000	249.0000	ug/L	0	10	
Barium	500.0000	486.0000	ug/L	-3	10	
Beryllium	50.00000	49.80000	ug/L	0	10	
Cadmium	50.00000	50.40000	ug/L	1	10	
Calcium	1000.000	1023.000	ug/L	2	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	245.0000	ug/L	-2	10	
Copper	100.0000	100.0000	ug/L	0	10	
Iron	500.0000	475.9000	ug/L	-5	10	
Lead	250.0000	250.0000	ug/L	0	10	
Magnesium	1000.000	1015.000	ug/L	2	10	
Manganese	50.00000	48.90000	ug/L	-2	10	
Molybdenum	500.0000	510.0000	ug/L	2	10	
Nickel	250.0000	249.0000	ug/L	0	10	
Selenium	250.0000	249.0000	ug/L	0	10	
Silver	50.00000	49.80000	ug/L	0	10	
Thallium	250.0000	239.0000	ug/L	-4	10	
Titanium	500.0000	502.0000	ug/L	0	10	
Vanadium	250.0000	246.0000	ug/L	-2	10	
Zinc	50.00000	49.80000	ug/L	0	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440004
Run Name :
Filename : tr244055
Injected : 03-AUG-2004 06:52
Caltype :

Standards: 04WS1044

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	106.1000	ug/L	6	50	
Antimony	60.00000	64.30000	ug/L	7	50	
Arsenic	5.000000	4.300000	ug/L	-14	50	
Barium	10.00000	9.840000	ug/L	-2	50	
Beryllium	2.000000	2.010000	ug/L	1	50	
Cadmium	5.000000	5.190000	ug/L	4	50	
Calcium	200.0000	218.0000	ug/L	9	50	
Chromium	10.00000	10.50000	ug/L	5	50	
Cobalt	20.00000	19.90000	ug/L	-1	50	
Copper	10.00000	10.60000	ug/L	6	50	
Iron	100.0000	113.7000	ug/L	14	50	
Lead	3.000000	2.810000	ug/L	-6	50	
Magnesium	200.0000	208.6000	ug/L	4	50	
Manganese	10.00000	9.980000	ug/L	0	50	
Molybdenum	20.00000	21.80000	ug/L	9	50	
Nickel	20.00000	20.30000	ug/L	2	50	
Selenium	5.000000	6.710000	ug/L	34	50	
Silver	5.000000	5.250000	ug/L	5	50	
Thallium	5.000000	2.680000	ug/L	-46	50	
Vanadium	10.00000	10.30000	ug/L	3	50	
Zinc	20.00000	19.80000	ug/L	-1	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440013

Run Name :
Filename : tr244064

IDF : 1.0
Injected : 03-AUG-2004 07:45
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	490.3000	ug/L	-2	10	
Antimony		500.0000	524.0000	ug/L	5	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	502.0000	ug/L	0	10	
Beryllium		50.00000	49.90000	ug/L	0	10	
Cadmium		50.00000	51.80000	ug/L	4	10	
Calcium		1000.000	1115.000	ug/L	**12**	10	c+ **
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	548.6000	ug/L	10	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	50.20000	ug/L	0	10	
Molybdenum		500.0000	510.0000	ug/L	2	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.20000	ug/L	2	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	513.0000	ug/L	3	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	51.60000	ug/L	3	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440024

Run Name :
Filename : tr244075

IDF : 1.0
Injected : 03-AUG-2004 08:35
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	735.8000	ug/L	-2	10	
Antimony		750.0000	761.0000	ug/L	1	10	
Arsenic		375.0000	378.0000	ug/L	1	10	
Barium		750.0000	730.0000	ug/L	-3	10	
Beryllium		75.00000	76.90000	ug/L	3	10	
Cadmium		75.00000	74.80000	ug/L	0	10	
Calcium		1500.000	1706.000	ug/L	**14**	10	c+ **
Chromium		150.0000	155.0000	ug/L	3	10	
Cobalt		375.0000	376.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	848.8000	ug/L	**13**	10	c+ **
Lead		375.0000	380.0000	ug/L	1	10	
Magnesium		1500.000	1584.000	ug/L	6	10	
Manganese		75.00000	77.00000	ug/L	3	10	
Molybdenum		750.0000	767.0000	ug/L	2	10	
Nickel		375.0000	375.0000	ug/L	0	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	76.40000	ug/L	2	10	
Thallium		375.0000	354.0000	ug/L	-6	10	
Titanium		750.0000	773.0000	ug/L	3	10	
Vanadium		375.0000	379.0000	ug/L	1	10	
Zinc		75.00000	77.10000	ug/L	3	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440036

Run Name :
Filename : tr244087

IDF : 1.0
Injected : 03-AUG-2004 09:39
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	516.3000	ug/L	3	10	
Antimony		500.0000	511.0000	ug/L	2	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	476.0000	ug/L	-5	10	
Beryllium		50.00000	51.40000	ug/L	3	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	1148.000	ug/L	**15**	10	c+ **
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	587.0000	ug/L	**17**	10	c+ **
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1061.000	ug/L	6	10	
Manganese		50.00000	51.60000	ug/L	3	10	
Molybdenum		500.0000	512.0000	ug/L	2	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	50.70000	ug/L	1	10	
Thallium		250.0000	234.0000	ug/L	-6	10	
Titanium		500.0000	518.0000	ug/L	4	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	52.10000	ug/L	4	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440048
Run Name :
Filename : tr244100
IDF : 1.0
Injected : 03-AUG-2004 10:47
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	742.1000	ug/L	-1	10	
Antimony		750.0000	764.0000	ug/L	2	10	
Arsenic		375.0000	375.0000	ug/L	0	10	
Barium		750.0000	717.0000	ug/L	-4	10	
Beryllium		75.00000	77.10000	ug/L	3	10	
Cadmium		75.00000	72.50000	ug/L	-3	10	
Calcium		1500.000	1707.000	ug/L	**14**	10	c+ **
Chromium		150.0000	155.0000	ug/L	3	10	
Cobalt		375.0000	375.0000	ug/L	0	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	820.4000	ug/L	9	10	
Lead		375.0000	380.0000	ug/L	1	10	
Magnesium		1500.000	1640.000	ug/L	9	10	
Manganese		75.00000	75.50000	ug/L	1	10	
Molybdenum		750.0000	763.0000	ug/L	2	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	76.60000	ug/L	2	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	777.0000	ug/L	4	10	
Vanadium		375.0000	378.0000	ug/L	1	10	
Zinc		75.00000	77.30000	ug/L	3	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440060

Run Name :
Filename : tr244112

IDF : 1.0
Injected : 03-AUG-2004 11:38
Caltype :

Standards: 04WS1318

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	232.8000	ug/L	-7	10	
Antimony		250.0000	253.0000	ug/L	1	10	
Arsenic		125.0000	123.0000	ug/L	-2	10	
Barium		250.0000	233.0000	ug/L	-7	10	
Beryllium		25.00000	25.30000	ug/L	1	10	
Cadmium		25.00000	24.00000	ug/L	-4	10	
Calcium		500.0000	542.9000	ug/L	9	10	
Chromium		50.00000	50.10000	ug/L	0	10	
Cobalt		125.0000	121.0000	ug/L	-3	10	
Copper		50.00000	50.20000	ug/L	0	10	
Iron		250.0000	257.4000	ug/L	3	10	
Lead		125.0000	125.0000	ug/L	0	10	
Magnesium		500.0000	527.7000	ug/L	6	10	
Manganese		25.00000	24.10000	ug/L	-4	10	
Molybdenum		250.0000	252.0000	ug/L	1	10	
Nickel		125.0000	121.0000	ug/L	-3	10	
Selenium		125.0000	121.0000	ug/L	-3	10	
Silver		25.00000	24.10000	ug/L	-4	10	
Thallium		125.0000	116.0000	ug/L	-7	10	
Titanium		250.0000	248.0000	ug/L	-1	10	
Vanadium		125.0000	121.0000	ug/L	-3	10	
Zinc		25.00000	24.90000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440071

Run Name :
Filename : tr244123

IDF : 1.0
Injected : 03-AUG-2004 12:25
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	519.8000	ug/L	4	10	
Antimony		500.0000	507.0000	ug/L	1	10	
Arsenic		250.0000	255.0000	ug/L	2	10	
Barium		500.0000	488.0000	ug/L	-2	10	
Beryllium		50.00000	51.10000	ug/L	2	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	1097.000	ug/L	10	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	556.6000	ug/L	**11**	10	c+ **
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1052.000	ug/L	5	10	
Manganese		50.00000	49.90000	ug/L	0	10	
Molybdenum		500.0000	514.0000	ug/L	3	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	251.0000	ug/L	0	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	53.20000	ug/L	6	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440083

Run Name :
Filename : tr244135

IDF : 1.0
Injected : 03-AUG-2004 13:15
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	778.6000	ug/L	4	10	
Antimony		750.0000	775.0000	ug/L	3	10	
Arsenic		375.0000	390.0000	ug/L	4	10	
Barium		750.0000	750.0000	ug/L	0	10	
Beryllium		75.00000	76.70000	ug/L	2	10	
Cadmium		75.00000	77.40000	ug/L	3	10	
Calcium		1500.000	1611.000	ug/L	7	10	
Chromium		150.0000	156.0000	ug/L	4	10	
Cobalt		375.0000	375.0000	ug/L	0	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	854.4000	ug/L	**14**	10	c+ **
Lead		375.0000	385.0000	ug/L	3	10	
Magnesium		1500.000	1603.000	ug/L	7	10	
Manganese		75.00000	74.00000	ug/L	-1	10	
Molybdenum		750.0000	768.0000	ug/L	2	10	
Nickel		375.0000	386.0000	ug/L	3	10	
Selenium		375.0000	381.0000	ug/L	2	10	
Silver		75.00000	75.10000	ug/L	0	10	
Thallium		375.0000	373.0000	ug/L	-1	10	
Titanium		750.0000	777.0000	ug/L	4	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	79.70000	ug/L	6	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440095

Run Name :
Filename : tr244148

IDF : 1.0
Injected : 03-AUG-2004 14:12
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	510.1000	ug/L	2	10	
Antimony		500.0000	508.0000	ug/L	2	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	507.0000	ug/L	1	10	
Beryllium		50.00000	49.70000	ug/L	-1	10	
Cadmium		50.00000	51.30000	ug/L	3	10	
Calcium		1000.000	1018.000	ug/L	2	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	98.00000	ug/L	-2	10	
Iron		500.0000	487.3000	ug/L	-3	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1028.000	ug/L	3	10	
Manganese		50.00000	47.00000	ug/L	-6	10	
Molybdenum		500.0000	508.0000	ug/L	2	10	
Nickel		250.0000	255.0000	ug/L	2	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	48.40000	ug/L	-3	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	507.0000	ug/L	1	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	52.80000	ug/L	6	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440107

Run Name :
Filename : tr244162

IDF : 1.0
Injected : 03-AUG-2004 15:35
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	805.0000	ug/L	7	10	
Antimony		750.0000	780.0000	ug/L	4	10	
Arsenic		375.0000	382.0000	ug/L	2	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	76.40000	ug/L	2	10	
Cadmium		75.00000	77.40000	ug/L	3	10	
Calcium		1500.000	1547.000	ug/L	3	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	767.9000	ug/L	2	10	
Lead		375.0000	380.0000	ug/L	1	10	
Magnesium		1500.000	1554.000	ug/L	4	10	
Manganese		75.00000	75.10000	ug/L	0	10	
Molybdenum		750.0000	773.0000	ug/L	3	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	76.90000	ug/L	3	10	
Thallium		375.0000	376.0000	ug/L	0	10	
Titanium		750.0000	772.0000	ug/L	3	10	
Vanadium		375.0000	379.0000	ug/L	1	10	
Zinc		75.00000	76.90000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440003 Run Name: Injected: 03-AUG-2004 06:48
Filename: tr244054 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.5100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.7800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440014 Run Name:
Filename: tr244065 Run Type: CCB

Injected: 03-AUG-2004 07:52

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	[6.0600]	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	[0.4960]	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[39.180]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[18.970]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.4500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.3800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440025 Run Name:
Filename: tr244076 Run Type: CCB

Injected: 03-AUG-2004 08:39

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[47.970]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.2900]	10.00000	ug/L	<RL
Iron	[48.490]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[15.230]	500.0000	ug/L	<RL
Manganese	[1.1100]	10.00000	ug/L	<RL
Molybdenum	[4.3700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.5000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440037 Run Name:
Filename: tr244088 Run Type: CCB

Injected: 03-AUG-2004 09:48

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[39.930]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.5600]	10.00000	ug/L	<RL
Iron	[26.630]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[16.800]	500.0000	ug/L	<RL
Manganese	[0.6050]	10.00000	ug/L	<RL
Molybdenum	[1.4000]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[5.0100]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440049 Run Name:
Filename: tr244101 Run Type: CCB

Injected: 03-AUG-2004 10:51

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[59.770]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[48.080]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[61.820]	500.0000	ug/L	<RL
Manganese	[0.9680]	10.00000	ug/L	<RL
Molybdenum	[3.9400]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[4.3500]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.6500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440061 Run Name: Injected: 03-AUG-2004 11:43
Filename: tr244113 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.9160]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[35.160]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[29.120]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[24.060]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[1.4100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.3400]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440072 Run Name: Injected: 03-AUG-2004 12:30
Filename: tr244124 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	[0.4490]	10.00000	ug/L	<RL
Beryllium	[0.8950]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.190]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[27.210]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[14.810]	500.0000	ug/L	<RL
Manganese	[0.6870]	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.4300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440084 Run Name:
Filename: tr244136 Run Type: CCB

Injected: 03-AUG-2004 13:20

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[77.210]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.2950]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[30.050]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[58.920]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[27.860]	500.0000	ug/L	<RL
Manganese	[0.8190]	10.00000	ug/L	<RL
Molybdenum	[8.1400]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[5.9000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440096 Run Name: Injected: 03-AUG-2004 14:17
Filename: tr244149 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.8840]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[18.640]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[13.850]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[18.770]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[6.5500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.9800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440108 Run Name:
Filename: tr244163 Run Type: CCB

Injected: 03-AUG-2004 15:45

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	[4.5700]	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[13.970]	100.0000	ug/L	<RL
Lead	[1.1300]	3.000000	ug/L	<RL
Magnesium	[9.5200]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.9100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.8800]	5.000000	ug/L	<RL
Titanium	[0.7020]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74311440005 Run Name:
Filename: tr244056 Run Type: ICSA

Injected: 03-AUG-2004 07:00

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[7.7100]	60.00000	ug/L	<RL
Arsenic	[2.1900]	5.000000	ug/L	<RL
Barium	[0.1820]	10.00000	ug/L	<RL
Beryllium	[-0.971]	2.000000	ug/L	<RL
Cadmium	[-0.108]	5.000000	ug/L	<RL
Chromium	[3.4400]	10.00000	ug/L	<RL
Cobalt	[0.9360]	10.00000	ug/L	<RL
Copper	[-2.890]	10.00000	ug/L	<RL
Lead	[-1.360]	3.000000	ug/L	<RL
Manganese	[2.0400]	10.00000	ug/L	<RL
Molybdenum	[-0.479]	20.00000	ug/L	<RL
Nickel	[2.0600]	20.00000	ug/L	<RL
Selenium	[-0.854]	5.000000	ug/L	<RL
Silver	[-0.394]	5.000000	ug/L	<RL
Thallium	[1.6700]	5.000000	ug/L	<RL
Titanium	24.70000	10.00000	ug/L	<RL a+ ***
Vanadium	[-3.730]	10.00000	ug/L	<RL
Zinc	[0.1610]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	520000	ug/L	104
Calcium	500000	466500.	ug/L	93
Iron	200000	181100	ug/L	91
Magnesium	500000	534500	ug/L	107

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440006

Run Name :
Filename : tr244057

Injected : 03-AUG-2004 07:04
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	539200.0	ug/L	8		
Antimony	500.0000	543.0000	ug/L	9	20	
Arsenic	500.0000	526.0000	ug/L	5	20	
Barium	500.0000	480.0000	ug/L	-4	20	
Beryllium	500.0000	508.0000	ug/L	2	20	
Cadmium	1000.000	941.0000	ug/L	-6	20	
Calcium	500000.0	484800.0	ug/L	-3		
Chromium	500.0000	480.0000	ug/L	-4	20	
Cobalt	500.0000	487.0000	ug/L	-3	20	
Copper	500.0000	525.0000	ug/L	5	20	
Iron	200000.0	187300.0	ug/L	-6		
Lead	1000.000	989.0000	ug/L	-1	20	
Magnesium	500000.0	553300.0	ug/L	11		
Manganese	500.0000	481.0000	ug/L	-4	20	
Molybdenum	500.0000	505.0000	ug/L	1	20	
Nickel	1000.000	926.0000	ug/L	-7	20	
Selenium	500.0000	534.0000	ug/L	7	20	
Silver	1000.000	890.0000	ug/L	-11	20	
Thallium	500.0000	491.0000	ug/L	-2	20	
Titanium	20000.00	21500.00	ug/L	8		
Vanadium	500.0000	485.0000	ug/L	-3	20	
Zinc	1000.000	1020.000	ug/L	2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74311440109

Run Name :
Filename : tr244164

Injected : 03-AUG-2004 15:54
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	538000.0	ug/L	8		
Antimony	500.0000	536.0000	ug/L	7	20	
Arsenic	500.0000	519.0000	ug/L	4	20	
Barium	500.0000	499.0000	ug/L	0	20	
Beryllium	500.0000	488.0000	ug/L	-2	20	
Cadmium	1000.000	935.0000	ug/L	-7	20	
Calcium	500000.0	460800.0	ug/L	-8		
Chromium	500.0000	473.0000	ug/L	-5	20	
Cobalt	500.0000	472.0000	ug/L	-6	20	
Copper	500.0000	520.0000	ug/L	4	20	
Iron	200000.0	182100.0	ug/L	-9		
Lead	1000.000	954.0000	ug/L	-5	20	
Magnesium	500000.0	534200.0	ug/L	7		
Manganese	500.0000	469.0000	ug/L	-6	20	
Molybdenum	500.0000	493.0000	ug/L	-1	20	
Nickel	1000.000	910.0000	ug/L	-9	20	
Selenium	500.0000	522.0000	ug/L	4	20	
Silver	1000.000	887.0000	ug/L	-11	20	
Thallium	500.0000	511.0000	ug/L	2	20	
Titanium	20000.00	21500.00	ug/L	8		
Vanadium	500.0000	481.0000	ug/L	-4	20	
Zinc	1000.000	1030.000	ug/L	3	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74311440 Instrument: MET07 TJA Trace ICP Begun: 03-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr244052	CS				03-AUG-2004 06:40	1.0	1.0			1	
002	tr244053	ICV				03-AUG-2004 06:44	1.0	1.0			2	
003	tr244054	ICB				03-AUG-2004 06:48	1.0	1.0				
004	tr244055	CRI				03-AUG-2004 06:52	1.0	1.0			3	
005	tr244056	ICSA				03-AUG-2004 07:00	1.0	1.0	1		4	4:MG=534500
006	tr244057	ICSAB				03-AUG-2004 07:04	1.0	1.0			5	5:MG=553300
007	tr244058	BLANK	QC259898	93418	Soil	03-AUG-2004 07:14	1.0	50.0	1			
008	tr244059	BS	QC259899	93418	Soil	03-AUG-2004 07:18	1.0	50.0	2			
009	tr244060	BSD	QC259900	93418	Soil	03-AUG-2004 07:25	1.0	50.0	2			
010	tr244061	MSS	173766-001	93418	Soil	03-AUG-2004 07:30	1.0	54.35	4			2:FE=194300
011	tr244062	MS	QC259901	93418	Soil	03-AUG-2004 07:35	1.0	53.19	1			4:FE=243200
012	tr244063	MSD	QC259902	93418	Soil	03-AUG-2004 07:39	1.0	48.08	1			4:FE=228300
013	tr244064	CCV				03-AUG-2004 07:45	1.0	1.0	1		6	
014	tr244065	CCB				03-AUG-2004 07:52	1.0	1.0				
015	tr244066	SAMPLE	173766-002	93418	Soil	03-AUG-2004 07:58	1.0	49.02	1			3:FE=246300
016	tr244067	SAMPLE	173766-003	93418	Soil	03-AUG-2004 08:02	1.0	40.98	1			3:FE=235400
017	tr244068	SAMPLE	173766-004	93418	Soil	03-AUG-2004 08:06	1.0	48.54				2:FE=206300
018	tr244069	SAMPLE	173766-005	93418	Soil	03-AUG-2004 08:10	1.0	52.08	1			3:FE=175500
019	tr244070	SAMPLE	173766-006	93418	Soil	03-AUG-2004 08:14	1.0	50.51				2:FE=267800
020	tr244071	SAMPLE	173766-002	93418	Soil	03-AUG-2004 08:19	1.0	49.02				3:FE=246700
021	tr244072	SAMPLE	173766-003	93418	Soil	03-AUG-2004 08:23	2.0	40.98	1			2:FE=120900
022	tr244073	SAMPLE	173766-005	93418	Soil	03-AUG-2004 08:27	2.0	52.08	2			
023	tr244074	SAMPLE	173766-007	93418	Soil	03-AUG-2004 08:30	1.0	47.62				2:FE=336700
024	tr244075	CCV				03-AUG-2004 08:35	1.0	1.0	2		7	
025	tr244076	CCB				03-AUG-2004 08:39	1.0	1.0				
026	tr244077	SAMPLE	173766-008	93418	Soil	03-AUG-2004 08:46	1.0	49.02	1			2:FE=281400
027	tr244078	SAMPLE	173766-009	93418	Soil	03-AUG-2004 08:50	1.0	45.87				2:FE=310800
028	tr244079	SAMPLE	173766-010	93418	Soil	03-AUG-2004 08:54	1.0	51.55				2:FE=228300
029	tr244080	SAMPLE	173766-008	93418	Soil	03-AUG-2004 09:06	1.0	49.02				2:FE=279700
030	tr244081	SAMPLE	173766-010	93418	Soil	03-AUG-2004 09:10	1.0	51.55				2:FE=227000
031	tr244082	SAMPLE	173766-011	93418	Soil	03-AUG-2004 09:14	1.0	44.64				2:FE=301800

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: Mai Wu Date: 8/3/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74311440 Instrument: MET07 TJA Trace ICP Begun: 03-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	tr244083	SAMPLE	173766-012	93418	Soil	03-AUG-2004 09:18	1.0	45.45				2:FE=310000
033	tr244084	SAMPLE	173766-013	93418	Soil	03-AUG-2004 09:22	1.0	40.0				2:FE=338200
034	tr244085	SAMPLE	173766-014	93418	Soil	03-AUG-2004 09:26	1.0	51.02				2:FE=262500
035	tr244086	SAMPLE	173766-015	93418	Soil	03-AUG-2004 09:30	1.0	49.50				2:FE=297700
036	tr244087	CCV				03-AUG-2004 09:39	1.0	1.0	2		6	
037	tr244088	CCB				03-AUG-2004 09:48	1.0	1.0				
038	tr244089	SAMPLE	173766-016	93418	Soil	03-AUG-2004 09:53	1.0	47.17				2:FE=322000
039	tr244090	SAMPLE	173766-017	93418	Soil	03-AUG-2004 09:57	1.0	52.63				2:FE=291700
040	tr244091	SAMPLE	173766-018	93418	Soil	03-AUG-2004 10:01	1.0	38.76				2:FE=320700
041	tr244092	SAMPLE	173766-019	93418	Soil	03-AUG-2004 10:05	1.0	32.26				2:FE=461000
042	tr244093	SAMPLE	173766-020	93418	Soil	03-AUG-2004 10:09	1.0	44.25				2:FE=303900
043	tr244094	BLANK	QC259891	93417	Soil	03-AUG-2004 10:20	1.0	50.0	2			
044	tr244095	BS	QC259892	93417	Soil	03-AUG-2004 10:23	1.0	50.0	3			
045	tr244096	BSD	QC259893	93417	Soil	03-AUG-2004 10:27	1.0	50.0	3			
046	tr244097	MSS	173676-005	93417	Soil	03-AUG-2004 10:30	1.0	32.68	6			6:MG=1595000
047	tr244099	SER	QC259896	93417	Soil	03-AUG-2004 10:41	5.0	32.68	1	1		4:MG=304900
048	tr244100	CCV				03-AUG-2004 10:47	1.0	1.0	1		7	
049	tr244101	CCB				03-AUG-2004 10:51	1.0	1.0				
050	tr244102	SER	QC259896	93417	Soil	03-AUG-2004 10:56	5.0	32.68		1		4:MG=296800
051	tr244103	MS	QC259894	93417	Soil	03-AUG-2004 11:00	1.0	50.51				5:MG=979700
052	tr244104	MSD	QC259895	93417	Soil	03-AUG-2004 11:03	1.0	47.62				5:MG=912200
053	tr244105	PDS	QC259897	93417	Soil	03-AUG-2004 11:08	1.0	32.68			8 9	6:MG=1572000
054	tr244106	SAMPLE	173676-006	93417	Soil	03-AUG-2004 11:11	1.0	55.56				6:FE=733000
055	tr244107	SAMPLE	173676-007	93417	Soil	03-AUG-2004 11:15	1.0	52.63				5:MG=901200
056	tr244108	SAMPLE	173726-001	93417	Soil	03-AUG-2004 11:18	1.0	35.46				6:MG=2363000
057	tr244109	SAMPLE	173726-002	93417	Soil	03-AUG-2004 11:22	1.0	44.25				5:MG=1502000
058	tr244110	SAMPLE	173753-001	93417	Miscel	03-AUG-2004 11:25	1.0	40.0				1:FE=264600
059	tr244111	SAMPLE	173754-001	93417	Fuels	03-AUG-2004 11:29	1.0	76.92				
060	tr244112	CCV				03-AUG-2004 11:38	1.0	1.0			10	
061	tr244113	CCB				03-AUG-2004 11:43	1.0	1.0				
062	tr244114	SAMPLE	173754-002	93417	Fuels	03-AUG-2004 11:49	1.0	68.49				

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: Mei Wu Date: 8/3/04

093

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74311440 Instrument: MET07 TJA Trace ICP Begun: 03-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	tr244115	SAMPLE	173754-003	93417	Miscel	03-AUG-2004 11:53	1.0	45.05				1:FE=1584000
064	tr244116	SAMPLE	173762-001	93417	Soil	03-AUG-2004 11:56	1.0	51.02	1			2:FE=445200
065	tr244117	SAMPLE	173762-001	93417	Soil	03-AUG-2004 12:00	1.0	51.02				2:FE=440000
066	tr244118	SAMPLE	173762-002	93417	Soil	03-AUG-2004 12:04	1.0	51.55				3:FE=395800
067	tr244119	SAMPLE	173762-003	93417	Soil	03-AUG-2004 12:08	1.0	42.74	1			5:FE=519300
068	tr244120	SAMPLE	173762-003	93417	Soil	03-AUG-2004 12:12	1.0	42.74	1			5:FE=512900
069	tr244121	SAMPLE	173762-003	93417	Soil	03-AUG-2004 12:16	10.0	42.74				
070	tr244122	SAMPLE	173764-001	93417	Miscel	03-AUG-2004 12:20	1.0	51.02				
071	tr244123	CCV				03-AUG-2004 12:25	1.0	1.0	1		6	
072	tr244124	CCB				03-AUG-2004 12:30	1.0	1.0				
073	tr244125	SAMPLE	173773-001	93417	Soil	03-AUG-2004 12:34	1.0	50.51				4:FE=545900
074	tr244126	SAMPLE	173773-002	93417	Soil	03-AUG-2004 12:37	1.0	34.97	1			3:FE=346900
075	tr244127	SAMPLE	173773-001	93417	Soil	03-AUG-2004 12:43	1.0	50.51				4:FE=545000
076	tr244128	SAMPLE	173773-002	93417	Soil	03-AUG-2004 12:47	1.0	34.97				3:FE=348700
077	tr244129	SAMPLE	173773-003	93417	Soil	03-AUG-2004 12:50	1.0	29.41	4			3:FE=480600
078	tr244130	SAMPLE	173773-004	93417	Soil	03-AUG-2004 12:54	1.0	39.06				3:FE=310900
079	tr244131	SAMPLE	173773-005	93417	Soil	03-AUG-2004 12:57	1.0	55.56				2:FE=227400
080	tr244132	SAMPLE	173777-001	93417	Soil	03-AUG-2004 13:01	1.0	49.02	1			2:FE=295300
081	tr244133	SAMPLE	173777-001	93417	Soil	03-AUG-2004 13:06	1.0	49.02				2:FE=289200
082	tr244134	SAMPLE	173773-003	93417	Soil	03-AUG-2004 13:09	1.0	29.41				4:FE=342000
083	tr244135	CCV				03-AUG-2004 13:15	1.0	1.0	1		7	
084	tr244136	CCB				03-AUG-2004 13:20	1.0	1.0				
085	tr244137	BS	QC259950	93431	TCLP L	03-AUG-2004 13:28	1.0	1.0	2			
086	tr244138	BSD	QC259951	93431	TCLP L	03-AUG-2004 13:32	1.0	1.0	2			
087	tr244139	BLANK	QC259949	93431	TCLP L	03-AUG-2004 13:36	10.0	1.0	2			
088	tr244140	MSS	173727-001	93431	TCLP L	03-AUG-2004 13:39	10.0	1.0	1			
089	tr244141	SDUP	QC259952	93431	TCLP L	03-AUG-2004 13:43	10.0	1.0				
090	tr244142	SSPIKE	QC259953	93431	TCLP L	03-AUG-2004 13:46	10.0	1.0	1			
091	tr244143	SAMPLE	173728-001	93431	TCLP L	03-AUG-2004 13:50	10.0	1.0				
092	tr244144	SAMPLE	173731-001	93431	TCLP L	03-AUG-2004 13:54	10.0	1.0				
093	tr244145	SAMPLE	173731-002	93431	TCLP L	03-AUG-2004 13:57	10.0	1.0	1			

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: Mei Wu Date: 8/3/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 03-AUG-2004

Sequence: 74311440 Instrument: MET07 TJA Trace ICP
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	tr244146	SAMPLE	173731-003	93431	TCLP L	03-AUG-2004 14:01	10.0	1.0				
095	tr244148	CCV				03-AUG-2004 14:12	1.0	1.0			6	
096	tr244149	CCB				03-AUG-2004 14:17	1.0	1.0				
097	tr244150	SAMPLE	173731-002	93431	TCLP L	03-AUG-2004 14:22	10.0	1.0				
098	tr244151	SAMPLE	173731-003	93431	TCLP L	03-AUG-2004 14:26	10.0	1.0				
099	tr244152	SAMPLE	173731-004	93431	TCLP L	03-AUG-2004 14:29	10.0	1.0				
100	tr244153	BLANK	QC259910	93421	Soil	03-AUG-2004 14:44	1.0	50.0	1			
101	tr244156	BLANK	QC259923	93423	Air	03-AUG-2004 15:07	1.0	600.2	1			
102	tr244157	BS	QC259924	93423	Air	03-AUG-2004 15:11	1.0	600.2	1			
103	tr244158	BSD	QC259925	93423	Air	03-AUG-2004 15:15	1.0	600.2	1			
104	tr244159	MSS	173763-001	93423	Air	03-AUG-2004 15:20	1.0	600.2	1			
105	tr244160	MS	QC259926	93423	Air	03-AUG-2004 15:24	1.0	600.2		1		
106	tr244161	MSD	QC259927	93423	Air	03-AUG-2004 15:28	1.0	600.2				
107	tr244162	CCV				03-AUG-2004 15:35	1.0	1.0			7	
108	tr244163	CCB				03-AUG-2004 15:45	1.0	1.0				
109	tr244164	ICSAB				03-AUG-2004 15:54	1.0	1.0			5	5:AL=538000

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319 8=04SS171 9=04SS172 10=04WS1318

Analyst: Mei Wu Date: 8/3/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 173773 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN
173773-001	MET07	08/03/04 12:34	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+
173773-001	MET07	08/03/04 12:43	1.0												+				
173773-002	MET07	08/03/04 12:37	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+
173773-002	MET07	08/03/04 12:47	1.0												+				
173773-003	MET07	08/03/04 12:50	1.0	+		+	+		+	+			+	+		+	+	+	+
173773-003	MET07	08/03/04 13:09	1.0		+			+			+	+			+				
173773-004	MET07	08/03/04 12:54	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
173773-005	MET07	08/03/04 12:57	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC259891	MET07	08/03/04 10:20	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC259892	MET07	08/03/04 10:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC259893	MET07	08/03/04 10:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC259894	MET07	08/03/04 11:00	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC259895	MET07	08/03/04 11:03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC259896	MET07	08/03/04 10:41	5.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC259896	MET07	08/03/04 10:56	5.0		+														
QC259897	MET07	08/03/04 11:08	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 02-AUG-2004 23:55

Batch Number : 93417
Date Extracted: 02-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173676-005			Tan Phung Associates	Soil	1.53	g	50	32.679739	1					PB		mss
173676-006			Tan Phung Associates	Soil	.9	g	50	55.555556	1					PB		
173676-007			Tan Phung Associates	Soil	.95	g	50	52.631579	1					PB		
173726-001			Tan Phung Associates	Soil	1.41	g	50	35.460993	1					PB		
173726-002			Tan Phung Associates	Soil	1.13	g	50	44.247788	1					PB		
173753-001			MWH	Miscell.	1.25	g	50	40.000000	1					T26/ICP		
173754-001			MWH	Fuels	.65	g	50	76.923077	1					T26/ICP		
173754-002			MWH	Fuels	.73	g	50	68.493151	1					T26/ICP		
173754-003			MWH	Miscell.	1.11	g	50	45.045045	1					T26/ICP		
173762-001			URS Corporation	Soil	.98	g	50	51.020408	1					T26/ICP		
173762-002			URS Corporation	Soil	.97	g	50	51.546392	1					T26/ICP		
173762-003			URS Corporation	Soil	1.17	g	50	42.735043	1					T26/ICP		
173764-001			ConocoPhillips Company	Miscell.	.98	g	50	51.020408	1					V		
173773-001			Treadwell & Rollo	Soil	.99	g	50	50.505051	1					T26/ICP		
173773-002			Treadwell & Rollo	Soil	1.43	g	50	34.965035	1					T26/ICP		
173773-003			Treadwell & Rollo	Soil	1.7	g	50	29.411765	1					T26/ICP		
173773-004			Treadwell & Rollo	Soil	1.28	g	50	39.062500	1					T26/ICP		
173773-005			Treadwell & Rollo	Soil	.9	g	50	55.555556	1					T26/ICP		
173777-001			Questa Engineering Corporation	Soil	1.02	g	50	49.019608	1					T26/ICP		
QC259891	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC259892	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC259893	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC259894	MS	of 173676-005		Soil	.99	g	50	50.505051	1		.5	.5		ICAP		
QC259895	MSD	of 173676-005		Soil	1.05	g	50	47.619048	1		.5	.5		ICAP		
QC259896	SER	of 173676-005		Soil	1.53	g	50	32.679739	1					ICAP		
QC259897	PDS	of 173676-005		Soil	1.53	g	50	32.679739	1					ICAP		

Prep Chemist: _____ Reviewed By: MW Date: 8/3/04

Relinquished By: _____ Received By: MW Date: 8/3/04

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 93417
Date Digested: 8/2/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 22

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLKQC 259891			50.0	Y	
*	BS 259892					
*	BSD 259893					
*	173676-005MS	A	0.99			
*	-005MSD		1.05			
	-006		0.90			
	-007		0.95			
	-005		1.53			WKS
	173726-001	A	1.41			
10	-002		1.13			
	173753-001	B	1.25			
	173754-001	A	0.65			
	-002		0.73			
	-003		1.11			
15	173762-001		0.98			comp 4 cores
	-002		0.97			
	-003		1.17			
	173764-001		0.98			comp 3 jars.
	173773-001	A	0.99			
20	-002		1.43			
	-003		1.70			
	-004		1.28			
	-005		0.90			
	173777-001	A	1.02			

0.5 mL of spike solution was added to all spikes

	Reagent ID or LIMS #	Initials / Date
	0755171*	8/2/04 VV
	0755172*	
digestion temperature (90 - 95 degrees C)	95°C	
1:1 HNO3	A02056-072604	
concentrated HNO3	A02056 JBaker	
3mL 30% hydrogen peroxide	43287349 VWR	
concentrated HCl	A16039 - JBaker	
☒ filtered thru' Whatman # 541	E556057	

8/2/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

~ 8-2-04
Reviewed by / Date

10098

TAL/ ICP Metals	Trace ICP MET-07	Vertical ICP MET-01	ICP-MS* MET-05
Soil MDLs (mg/Kg)	6/23/03	7/20/04	5/26/04
Antimony	0.40	1.3	0.82
Arsenic	0.12	2.8	0.082
Barium	0.039	0.098	0.20
Beryllium	0.015	0.029	0.052
Cadmium	0.019	0.14	0.011
Chromium	0.054	0.29	0.052
Cobalt	0.071	0.39	0.0035
Copper	0.033	0.11	0.097
Lead	0.050	7.9	0.0082
Molybdenum	0.045	0.43	0.0052
Nickel	0.32	0.64	0.30
Selenium	0.17	8.1	0.097
Silver	0.027	0.18	0.0032
Thallium	0.15	9.5	0.013
Vanadium	0.067	0.14	0.15
Zinc	0.13	0.17	0.056
Aluminum	1.0	1.5	0.58
Calcium	0.52	2.8	2.8
Iron	0.79	1.5	0.93
Magnesium	0.48	1.5	0.34
Manganese	0.016	0.11	0.019
Potassium	- -	18	1.1
Sodium	- -	2.8	4.2

* MDL calculation includes the 5x dilution which is standard for ICP-MS soils.

CVAA / Flame AA

Soil MDLs (mg/Kg)	MDL	Analyzed	Instrument
Mercury (EPA 7471A)	0.004	3/30/04	MET-04
	0.005	5/15/03	MET-03
Organic Lead (CA LUFT)	0.22	4/04/03	JE 4000

Miscellaneous Metals (EPA 6010B)	Vertical ICP MET-01
Soil MDLs (mg/Kg)	5/14/03
Boron	1.7
Tin	0.89
Titanium	0.14

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93486
Date: 08/05/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173723-022	15.4653	22.6127	21.9839	91	9
173723-023	15.4931	22.2059	21.5277	90	10
173723-024	15.5142	22.3141	21.6607	90	10
173723-026	15.4964	22.3133	21.8438	93	7
173723-027	15.3599	22.4820	21.9891	93	7
173728-001	15.2768	22.6974	22.2065	93	7
173731-001	15.2835	22.3098	21.9828	95	5
173731-002	15.2709	22.3787	21.9779	94	6
173731-003	15.4306	22.3585	21.9740	94	6
173731-004	15.4163	22.3615	21.8340	92	8
173773-001	15.3137	22.5917	22.1188	94	6
173773-002	15.3841	22.7349	22.6323	99	1
173773-003	15.2751	22.2731	22.0511	97	3
173773-004	15.3478	22.7594	22.6045	98	2
173773-005	15.5225	22.5628	22.4525	98	2
173775-001	15.2190	22.2534	20.5931	76	24
173775-002	15.4401	22.5757	20.9245	77	23
173824-001	15.0927	22.3616	22.0276	95	5
173825-001	15.6429	22.4779	22.3769	99	1
QC260176	15.6529	22.3479	22.2523	99	1
of 173773-005			RPD:	0.1%	9.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93486
Date Started: 04-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
173723-022		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-023		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-024		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-026		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-027		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173728-001		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-001		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-002		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-003		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-004		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173773-001		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-002		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-003		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-004		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-005		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173775-001		Tan Phung Associat	Soil	MOISTURE	05-AUG-2004
173775-002		Tan Phung Associat	Soil	MOISTURE	05-AUG-2004
173824-001		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173825-001		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
QC260176	SDUP of 173773-005		Soil	MOISTURE	

8/4/04

93486

Sample		B.C.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	141	15.4226	—	15.4226	
173728-	1	A	44	15.2768	22.6974	22.2065	
173731-	1		78	15.2835	22.3096	21.9826	
	2		34	15.2709	22.3787	21.9779	
	3		32	15.4306	22.3585	21.9740	
	4		24	15.4163	22.3615	21.8340	
173773-	1		30	15.3137	22.5917	22.1188	
	2		37	15.3841	22.7349	22.6323	
	3		31	15.2751	22.2731	22.0511	
	4		A	15.3478	22.7594	22.6045	
	5		11	15.5225	22.5628	22.4525	
DUP	5		1976	15.6529	22.3479	22.2523	
173775-	1		71	15.2190	22.2534	20.5931	
	2		34	15.4481	22.5757	20.9245	
173723-	22		39	15.4653	22.6127	21.9839	
	23		106	15.4931	22.2059	21.5277	
	24		101	15.5142	22.3141	21.6607	
	26		38	15.4964	22.3133	21.8438	
	27		008	15.3599	22.4820	21.9891	
173824-	1		CEJ	15.0927	22.3616	22.0276	
173825-	1		41	15.6429	22.4779	22.3769	

OVEN TEMP: 104°C
TIME IN: 5:20 P.M.
TIME OUT: 9:41 A.M. ON: 8/5/04

Continued on Page /

Read and Understood By

Signed: [illegible] Date: 8/4/04 Signed: [illegible] Date: 8/05/04

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173825

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX106[0.5]	173825-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 8/13/04
Operations Manager

Signature: _____ for ST Date: 8/12/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

Laboratory Number: **173825**
Client: **Treadwell & Rollo**
Project Name: **Presidio – Baker Beach 3**

Order Date: **08/04/04**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one soil sample received from the above referenced project. The sample was received cold and intact.

Organochlorine Pesticides: The endrin breakdown % for the performance evaluation monitoring standards (PEMs) were above acceptance limits on channel A. Endrin and its associated breakdown products were not detected in the associated sample, therefore, there is no affect on the quality of the sample results.

The %D of the continuing calibration standard (CCS) 217_024 was outside acceptance limits for decachlorobiphenyl on channel B. The associated average %D for all compounds was acceptable on both channels, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

PCBs: The TCMX surrogate recoveries for all samples were above acceptance limits. The associated decachlorobiphenyl surrogate recoveries were acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Metals: The matrix spike recoveries for antimony, chromium, and nickel, the matrix spike duplicate recovery for antimony, and the matrix spike duplicate relative percent difference (RPD) for chromium, were outside acceptance limits. The associated blank spike recoveries and blank spike duplicate RPDs were acceptable for all target elements and the spiked sample was not from this site. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

173825

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: mike Chamberlin
Recorder (Signature Required): [signature]

Turnaround Time: 24 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	metals	Silica gel clean-up	Hold	Remarks
B33EX106[0.5]	8/4/04	1234		X						1		X	X	X			

Remove top 6" of soil in area of B33 for disposal

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/4/04	1334	[signature]	8/4/04	1334
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: send login to Colleen @ SF office

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002232

00004

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173825 Date Received: 8/4/04 Number of Coolers: 1
Client: Treadwell+Rollo Project: Presidio - Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/4/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... YES NO
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO N/A
4. Were custody papers dry and intact when received?..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO
7. Was project identifiable from custody papers?..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 8/4/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: zip loc bag
2. Did all bottles arrive unbroken?..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?.. YES NO
4. Did bottle labels agree with custody papers?..... YES NO
5. Were appropriate containers used for the tests indicated?..... YES NO
6. Were correct preservatives added to samples?..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated?..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO N/A
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX106[0.5]	Batch#:	93481
Lab ID:	173825-001	Sampled:	08/04/04
Matrix:	Soil	Received:	08/04/04
Units:	ug/Kg	Prepared:	08/04/04
Basis:	dry	Analyzed:	08/04/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.4
4,4'-DDE	3.7	3.4
Endrin	ND	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	6.2	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	119	65-135
Decachlorobiphenyl	115	65-135

ND= Not Detected
RL= Reporting Limit

9.0

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260152	Batch#:	93481
Matrix:	Soil	Prepared:	08/04/04
Units:	ug/Kg	Analyzed:	08/04/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	104	65-135
Decachlorobiphenyl	98	65-135

ND= Not Detected
RL= Reporting Limit

10.0

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260153	Batch#:	93481
Matrix:	Soil	Prepared:	08/04/04
Units:	ug/Kg	Analyzed:	08/04/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.86	13.01	77	65-135
Heptachlor	16.86	14.45	86	65-135
Aldrin	16.86	13.42	80	65-135
Dieldrin	16.86	13.33	79	65-135
Endrin	16.86	14.26	85	65-135
4,4'-DDT	16.86	14.31	85	65-135

Surrogate	%REC	Limits
TCMX	115	65-135
Decachlorobiphenyl	100	65-135

11.0

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX106[0.5]	Batch#:	93481
MSS Lab ID:	173825-001	Sampled:	08/04/04
Matrix:	Soil	Received:	08/04/04
Units:	ug/Kg	Prepared:	08/04/04
Basis:	dry	Analyzed:	08/05/04
Diln Fac:	1.000		

Type: MS Moisture: 1%
Lab ID: QC260154 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5960	16.68	12.57	75	65-135
Heptachlor	<0.5354	16.68	14.18	85	65-135
Aldrin	<0.5859	16.68	12.97	78	65-135
Dieldrin	<1.515	16.68	13.28	80	65-135
Endrin	<1.616	16.68	13.95	84	65-135
4,4'-DDT	6.209	16.68	18.97	77	65-135

Surrogate	%REC	Limits
TCMX	113	65-135
Decachlorobiphenyl	86	65-135

Type: MSD Moisture: 1%
Lab ID: QC260155 Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.90	11.64	69	65-135	9	35
Heptachlor	16.90	12.95	77	65-135	10	35
Aldrin	16.90	11.78	70	65-135	11	35
Dieldrin	16.90	12.47	74	65-135	8	35
Endrin	16.90	13.22	78	65-135	7	35
4,4'-DDT	16.90	18.33	72	65-135	4	35

Surrogate	%REC	Limits
TCMX	102	65-135
Decachlorobiphenyl	93	65-135

RPD= Relative Percent Difference

12.0

INITIAL CALIBRATION REPORT FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: CW
Calnum: 804312467001 Name: Type: (normal) Date: 04-AUG-2004 01:15 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	216_014	804312467014	pest_1	04-AUG-2004 01:15	04WS0929
2	216_015	804312467015	pest_2	04-AUG-2004 01:44	04WS0928
3	216_016	804312467016	pest_3	04-AUG-2004 02:13	04WS1385
4	216_017	804312467017	pest_4	04-AUG-2004 02:43	04WS0926
5	216_018	804312467018	pest_5	04-AUG-2004 03:12	04WS1375
6	216_019	804312467019	pest_6	04-AUG-2004 03:41	04WS0924
7	216_020	804312467020	pest_7	04-AUG-2004 04:10	04WS1374

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	19152	18772	16881	15896	16146	16969	17636	AVRG	R		5.764E-5		pg	17350	7	0.995	20	
gamma-BHC	A	17638	17169	15202	14318	14399	14969	15873	AVRG	R		6.389E-5		pg	15653	8	0.995	20	
beta-BHC	A	8202.0	7913.9	6777.1	6200.8	6147.9	5988.3	6315.8	AVRG	R		1.472E-4		pg	6792.3	13	0.995	20	
delta-BHC	A	19743	17646	15161	13937	14148	14836	15784	AVRG	R		6.292E-5		pg	15894	13	0.995	20	
Heptachlor	A	15533	14897	13174	12570	12524	12853	14126	AVRG	R		7.316E-5		pg	13668	9	0.995	20	
Aldrin	A	16398	15843	13813	12914	12962	13145	14209	AVRG	R		7.050E-5		pg	14184	10	0.995	20	
Heptachlor epoxide	A	15406	14777	12794	11935	11811	11721	12811	AVRG	R		7.671E-5		pg	13036	11	0.995	20	
gamma-Chlordane	A	16347	14654	12724	11882	11721	11789	13193	AVRG	R		7.583E-5		pg	13187	13	0.995	20	
alpha-Chlordane	A	14889	14210	12303	11398	11280	11248	12585	AVRG	R		7.962E-5		pg	12559	12	0.995	20	
4,4'-DDE	A	13894	13191	11569	11064	11096	11438	11354	AVRG	R		8.373E-5		pg	11944	9	0.995	20	
Endosulfan I	A	15381	13790	11719	10920	10666	10539	11729	AVRG	R		8.260E-5		pg	12106	15	0.995	20	
Dieldrin	A	14900	14063	12224	11627	11546	11851	11521	AVRG	R		7.979E-5		pg	12533	11	0.995	20	
Endrin	A	11096	10285	8772.6	8072.2	7722.6	8104.3	9142.7	AVRG	R		1.108E-4		pg	9027.9	14	0.995	20	
4,4'-DDD	A	11397	10876	9484.4	8655.6	8570.0	8939.2	9372.0	AVRG	R		1.040E-4		pg	9613.6	11	0.995	20	
Endosulfan II	A	13077	11945	10397	9582.4	9409.1	9719.4	9945.1	AVRG	R		9.450E-5		pg	10582	13	0.995	20	
4,4'-DDT	A	9929.9	9109.6	8045.1	7831.5	7435.2	8151.7	9080.9	AVRG	R		1.175E-4		pg	8512.0	10	0.995	20	
Endrin aldehyde	A	11349	9765.8	8400.2	7283.0	7250.5	7352.4	7838.9	AVRG	R		1.182E-4		pg	8462.8	18	0.995	20	
Methoxychlor	A	4311.7	3704.6	3342.6	3235.1	2993.6	3049.1	2920.0	AVRG	R		2.972E-4		pg	3365.2	15	0.995	20	
Endosulfan sulfate	A	11913	10122	8730.9	7768.8	7474.9	7871.3	8869.1	AVRG	R		1.116E-4		pg	8964.3	18	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: CW
Calnum: 804312467001 Name: Type: (normal) Date: 04-AUG-2004 01:15 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	13722	12071	10558	9525.8	9198.8	9615.0	9674.8	AVRG	R		9.413E-5		pg	10624	16	0.995	20	
TCMX	A	13152	12524	11265	10462	10561	10760	10889	AVRG	R		8.792E-5		pg	11373	9	0.995	20	
Decachlorobiphenyl	A	8483.9	7271.3	6364.6	5545.8	4978.3	5523.1	7141.8	AVRG	R		1.545E-4		pg	6472.7	19	0.995	20	
alpha-BHC	B	20666	20016	18336	17739	17624	20006	18144	AVRG	R		5.282E-5		pg	18933	7	0.995	20	
gamma-BHC	B	18944	18350	16417	15836	15754	17868	16202	AVRG	R		5.864E-5		pg	17053	8	0.995	20	
beta-BHC	B	9006.6	8673.6	7431.7	6974.9	6862.1	7199.6	6889.6	AVRG	R		1.320E-4		pg	7576.9	12	0.995	20	
delta-BHC	B	20616	18686	16185	15372	15546	17821	16068	AVRG	R		5.819E-5		pg	17185	11	0.995	20	
Heptachlor	B	12815	12598	11326	11512	11376	12937	12874	AVRG	R		8.193E-5		pg	12206	6	0.995	20	
Aldrin	B	17437	16859	14778	14279	14215	15758	14510	AVRG	R		6.491E-5		pg	15405	8	0.995	20	
Heptachlor epoxide	B	15960	15273	13318	12898	12694	13813	12890	AVRG	R		7.228E-5		pg	13835	9	0.995	20	
gamma-Chlordane	B	16030	15421	13290	12886	12717	14030	13223	AVRG	R		7.172E-5		pg	13943	9	0.995	20	
alpha-Chlordane	B	15430	14976	12704	12249	12098	13296	12567	AVRG	R		7.501E-5		pg	13331	10	0.995	20	
4,4'-DDE	B	14081	13783	11781	11753	11780	12688	11068	AVRG	R		8.052E-5		pg	12419	9	0.995	20	
Endosulfan I	B	14590	14088	12008	11535	11401	12272	11768	AVRG	R		7.985E-5		pg	12523	10	0.995	20	
Dieldrin	B	14956	14422	12302	12148	12066	12984	11194	AVRG	R		7.771E-5		pg	12868	11	0.995	20	
Endrin	B	11024	10733	8933.9	8921.6	8629.3	9821.8	9204.9	AVRG	R		1.041E-4		pg	9609.8	10	0.995	20	
4,4'-DDD	B	11053	10833	9108.8	8872.7	8844.2	9816.7	8914.4	AVRG	R		1.038E-4		pg	9634.7	10	0.995	20	
Endosulfan II	B	12719	12148	10107	9863.6	9719.7	10779	9594.0	AVRG	R		9.342E-5		pg	10704	12	0.995	20	
4,4'-DDT	B	8420.5	8574.6	7108.9	7504.2	7258.0	8601.8	8169.6	AVRG	R		1.258E-4		pg	7948.2	8	0.995	20	
Endrin aldehyde	B	10422	9479.1	7739.7	7167.9	7162.6	8004.2	7425.5	AVRG	R		1.219E-4		pg	8200.1	15	0.995	20	
Methoxychlor	B	3551.4	3576.5	2891.1	3104.8	3015.7	3196.9	2769.8	AVRG	R		3.167E-4		pg	3158.0	10	0.995	20	
Endosulfan sulfate	B	11341	10433	8436.6	8209.4	8066.3	9345.6	8782.7	AVRG	R		1.083E-4		pg	9230.6	13	0.995	20	
Endrin ketone	B	12201	11549	9384.0	9020.6	8791.9	9808.2	8622.7	AVRG	R		1.009E-4		pg	9911.0	14	0.995	20	
TCMX	B	14341	13434	12308	11782	11585	12583	11290	AVRG	R		8.016E-5		pg	12475	9	0.995	20	
Decachlorobiphenyl	B	7361.8	7273.1	5509.3	5454.2	4819.9	5644.9	5902.6	AVRG	R		1.668E-4		pg	5995.1	16	0.995	20	

Method	Ch	Count	Avg	%RSD Limit	Flags
EPA 8081A	A	22	13	20	
EPA 8081A	B	22	10	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804313382010 Run Name: pem Injected: 04-AUG-2004 19:49
Filename: 217_010 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	853244.77
4,4'-DDE	A	9154.77
4,4'-DDD	A	39750.03

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	424657.97
Endrin aldehyde	A	43576.1
Endrin ketone	A	47660.38

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	638713.06
4,4'-DDE	B	7207
4,4'-DDD	B	23207.34

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	383696.68
Endrin aldehyde	B	29871.67
Endrin ketone	B	31308.63

Endrin Breakdown %: 14
Breakdown Limit %: 15

P=PEM failure

PERFORMANCE EVALUATION REPORT FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804313382022 Run Name: Injected: 05-AUG-2004 01:39
Filename: 217_022 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	817400.23
4,4'-DDE	A	6126.88
4,4'-DDD	A	50071.39

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	415024.04
Endrin aldehyde	A	44826
Endrin ketone	A	53811.22

Endrin Breakdown %: **19 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	736730.43
4,4'-DDE	B	5584
4,4'-DDD	B	30448.37

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	445563.55
Endrin aldehyde	B	27262.26
Endrin ketone	B	32996.49

Endrin Breakdown %: 12
Breakdown Limit %: 15

P=PEM failure

CONTINUING CALIBRATION REPORT FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804313382009 Filename : 217_009 Injected : 04-AUG-2004 19:20
Calnum : 804312467001 Caldate : 04-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17350	18497	20.00000	21.32172	pg	7	15	
gamma-BHC	A	15653	16671	20.00000	21.30085	pg	7	15	
beta-BHC	A	6792.3	7255.1	20.00000	21.36292	pg	7	15	
delta-BHC	A	15894	16442	20.00000	20.69015	pg	3	15	
Heptachlor	A	13668	14449	20.00000	21.14318	pg	6	15	
Aldrin	A	14184	14865	20.00000	20.96154	pg	5	15	
Heptachlor epoxide	A	13036	13589	20.00000	20.84832	pg	4	15	
gamma-Chlordane	A	13187	13503	20.00000	20.47892	pg	2	15	
alpha-Chlordane	A	12559	12984	20.00000	20.67683	pg	3	15	
4,4'-DDE	A	11944	12618	40.00000	42.25653	pg	6	15	
Endosulfan I	A	12106	12320	20.00000	20.35381	pg	2	15	
Dieldrin	A	12533	13261	40.00000	42.32139	pg	6	15	
Endrin	A	9027.9	9640.7	40.00000	42.71508	pg	7	15	
4,4'-DDD	A	9613.6	9703.2	40.00000	40.37291	pg	1	15	
Endosulfan II	A	10582	10723	40.00000	40.53123	pg	1	15	
4,4'-DDT	A	8512.0	8486.3	40.00000	39.87897	pg	0	15	
Endrin aldehyde	A	8462.8	7930.1	40.00000	37.48239	pg	-6	15	
Methoxychlor	A	3365.2	3412.0	200.0000	202.7771	pg	1	15	
Endosulfan sulfate	A	8964.3	8611.5	40.00000	38.42563	pg	-4	15	
Endrin ketone	A	10624	10321	40.00000	38.86058	pg	-3	15	
TCMX	A	11373	11791	40.00000	41.47049	pg	4	15	
Decachlorobiphenyl	A	6472.7	5678.0	40.00000	35.08937	pg	-12	15	
alpha-BHC	B	18933	18391	20.00000	19.42794	pg	-3	15	
gamma-BHC	B	17053	16476	20.00000	19.32395	pg	-3	15	
beta-BHC	B	7576.9	7361.8	20.00000	19.43239	pg	-3	15	
delta-BHC	B	17185	16269	20.00000	18.93416	pg	-5	15	
Heptachlor	B	12206	11867	20.00000	19.44574	pg	-3	15	
Aldrin	B	15405	14682	20.00000	19.06082	pg	-5	15	
Heptachlor epoxide	B	13835	13173	20.00000	19.04326	pg	-5	15	
gamma-Chlordane	B	13943	13169	20.00000	18.89100	pg	-6	15	
alpha-Chlordane	B	13331	12596	20.00000	18.89695	pg	-6	15	
4,4'-DDE	B	12419	11969	40.00000	38.55025	pg	-4	15	
Endosulfan I	B	12523	11857	20.00000	18.93580	pg	-5	15	
Dieldrin	B	12868	12426	40.00000	38.62698	pg	-3	15	
Endrin	B	9609.8	9425.9	40.00000	39.23453	pg	-2	15	
4,4'-DDD	B	9634.7	8981.1	40.00000	37.28668	pg	-7	15	
Endosulfan II	B	10704	10034	40.00000	37.49707	pg	-6	15	
4,4'-DDT	B	7948.2	7413.3	40.00000	37.30777	pg	-7	15	
Endrin aldehyde	B	8200.1	7439.6	40.00000	36.29022	pg	-9	15	
Methoxychlor	B	3158.0	3037.4	200.0000	192.3615	pg	-4	15	
Endosulfan sulfate	B	9230.6	8388.4	40.00000	36.35051	pg	-9	15	
Endrin ketone	B	9911.0	9036.2	40.00000	36.46949	pg	-9	15	
TCMX	B	12475	11883	40.00000	38.10404	pg	-5	15	
Decachlorobiphenyl	B	5995.1	5241.1	40.00000	34.96899	pg	-13	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				5	15	

CONTINUING CALIBRATION REPORT FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804313382024 Filename : 217_024 Injected : 05-AUG-2004 02:38
Calnum : 804312467001 Caldate : 04-AUG-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17350	17235	10.00000	9.933262	pg	-1	15	
gamma-BHC	A	15653	15533	10.00000	9.923342	pg	-1	15	
beta-BHC	A	6792.3	6912.7	10.00000	10.17730	pg	2	15	
delta-BHC	A	15894	15295	10.00000	9.623095	pg	-4	15	
Heptachlor	A	13668	13312	10.00000	9.739234	pg	-3	15	
Aldrin	A	14184	14165	10.00000	9.986804	pg	0	15	
Heptachlor epoxide	A	13036	13078	10.00000	10.03210	pg	0	15	
gamma-Chlordane	A	13187	13032	10.00000	9.882253	pg	-1	15	
alpha-Chlordane	A	12559	12527	10.00000	9.974412	pg	0	15	
4,4'-DDE	A	11944	11895	20.00000	19.91874	pg	0	15	
Endosulfan I	A	12106	11923	10.00000	9.848457	pg	-2	15	
Dieldrin	A	12533	12455	20.00000	19.87463	pg	-1	15	
Endrin	A	9027.9	8331.7	20.00000	18.45749	pg	-8	15	
4,4'-DDD	A	9613.6	9686.7	20.00000	20.15218	pg	1	15	
Endosulfan II	A	10582	10417	20.00000	19.68714	pg	-2	15	
4,4'-DDT	A	8512.0	7618.5	20.00000	17.90060	pg	-10	15	
Endrin aldehyde	A	8462.8	8458.1	20.00000	19.98899	pg	0	15	
Methoxychlor	A	3365.2	3246.1	100.0000	96.46110	pg	-4	15	
Endosulfan sulfate	A	8964.3	8637.7	20.00000	19.27132	pg	-4	15	
Endrin ketone	A	10624	10613	20.00000	19.98062	pg	0	15	
TCMX	A	11373	11330	20.00000	19.92326	pg	0	15	
Decachlorobiphenyl	A	6472.7	6139.4	20.00000	18.97024	pg	-5	15	
alpha-BHC	B	18933	18827	10.00000	9.943958	pg	-1	15	
gamma-BHC	B	17053	16972	10.00000	9.952785	pg	0	15	
beta-BHC	B	7576.9	7653.5	10.00000	10.10113	pg	1	15	
delta-BHC	B	17185	16394	10.00000	9.539878	pg	-5	15	
Heptachlor	B	12206	12027	10.00000	9.853876	pg	-1	15	
Aldrin	B	15405	15145	10.00000	9.831129	pg	-2	15	
Heptachlor epoxide	B	13835	13672	10.00000	9.881970	pg	-1	15	
gamma-Chlordane	B	13943	13509	10.00000	9.689045	pg	-3	15	
alpha-Chlordane	B	13331	13098	10.00000	9.825279	pg	-2	15	
4,4'-DDE	B	12419	11890	20.00000	19.14802	pg	-4	15	
Endosulfan I	B	12523	12338	10.00000	9.852454	pg	-1	15	
Dieldrin	B	12868	12531	20.00000	19.47700	pg	-3	15	
Endrin	B	9609.8	9149.2	20.00000	19.04135	pg	-5	15	
4,4'-DDD	B	9634.7	9216.3	20.00000	19.13158	pg	-4	15	
Endosulfan II	B	10704	10033	20.00000	18.74577	pg	-6	15	
4,4'-DDT	B	7948.2	7040.7	20.00000	17.71654	pg	-11	15	
Endrin aldehyde	B	8200.1	7726.5	20.00000	18.84488	pg	-6	15	
Methoxychlor	B	3158.0	2856.0	100.0000	90.43742	pg	-10	15	
Endosulfan sulfate	B	9230.6	8272.3	20.00000	17.92370	pg	-10	15	
Endrin ketone	B	9911.0	9130.5	20.00000	18.42498	pg	-8	15	
TCMX	B	12475	12602	20.00000	20.20494	pg	1	15	
Decachlorobiphenyl	B	5995.1	4694.1	20.00000	15.65973	pg	**-22**	15	c-
Average EPA 8081A	A		(count=22)				2	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV

SEQUENCE SUMMARY FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804312467 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
011	216_011	PEM				03-AUG-2004 23:47	1.0			1			1	
013	216_013	X	hex			04-AUG-2004 00:46	1.0							
014	216_014	ICAL	pest_1			04-AUG-2004 01:15	1.0						2	
015	216_015	ICAL	pest_2			04-AUG-2004 01:44	1.0						3	
016	216_016	ICAL	pest_3			04-AUG-2004 02:13	1.0						4	
017	216_017	ICAL	pest_4			04-AUG-2004 02:43	1.0						5	
018	216_018	ICAL	pest_5			04-AUG-2004 03:12	1.0						6	
019	216_019	ICAL	pest_6			04-AUG-2004 03:41	1.0						7	
020	216_020	ICAL	pest_7			04-AUG-2004 04:10	1.0						8	
022	216_022	X	accpst_icv			04-AUG-2004 05:09	1.0						9	
023	216_023	ICV	icv			04-AUG-2004 05:38	1.0	2		1			9	
024	216_024	PEM				04-AUG-2004 06:08	1.0						1	

Stds used: 1=04WS0930 2=04WS0929 3=04WS0928 4=04WS1385 5=04WS0926 6=04WS1375 7=04WS0924 8=04WS1374 9=04WS1240

SEQUENCE SUMMARY FOR 173825 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804313382 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 04-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
003	217_003	X				04-AUG-2004 15:02	1.0	1.0	1	1	
004	217_004	X	pest_4			04-AUG-2004 15:32	1.0			2	
005	217_005	X	ccv			04-AUG-2004 16:01	1.0			2	
006	217_006	X	ccv			04-AUG-2004 16:59	1.0			2	
007	217_007	X	ccv			04-AUG-2004 17:28	1.0			2	
008	217_008	X	ccv			04-AUG-2004 18:51	1.0			2	
009	217_009	CCV	ccv			04-AUG-2004 19:20	1.0	1.0	1	2	
010	217_010	PEM	pem			04-AUG-2004 19:49	1.0	1.0	1	1	
012	217_012	BLANK	QC260152	93481	Soil	04-AUG-2004 20:47	1.0	0.6764	1		
013	217_013	LCS	QC260153	93481	Soil	04-AUG-2004 21:17	1.0	0.6743	1		
014	217_014	MSS	173667-001	93227	Soil	04-AUG-2004 21:46	1.0	0.6642	1		
015	217_015	MS	QC259139	93227	Soil	04-AUG-2004 22:15	1.0	0.6773	1		
016	217_016	MSD	QC259140	93227	Soil	04-AUG-2004 22:44	1.0	0.6734	1		
017	217_017	SAMPLE	173824-001	93481	Soil	04-AUG-2004 23:13	1.0	0.6631	1	spk	
018	217_018	MSS	173825-001	93481	Soil	04-AUG-2004 23:43	1.0	0.6716	1	spk	
019	217_019	MS	QC260154	93481	Soil	05-AUG-2004 00:12	1.0	0.6605	1		
020	217_020	MSD	QC260155	93481	Soil	05-AUG-2004 00:41	1.0	0.6691	1		
022	217_022	PEM				05-AUG-2004 01:39	1.0	1.0	1	1	
023	217_023	X	pest_3			05-AUG-2004 02:09	1.0	1.0	1	3	
024	217_024	CCV	ccv			05-AUG-2004 02:38	1.0	1.0	1	3	
025	217_025	X	ccv			05-AUG-2004 03:07	1.0			4	
026	217_026	X	pem			05-AUG-2004 03:37	1.0	1.0	1	1	

Stds used: 1=04WS0930 2=04WS0926 3=04WS1385 4=04WS1375
Flags used: spk=5% spike rule

018

Reporting Summary for 173825 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173825-001	alpha-BHC	GC23	B	08/04/04 23:43
173825-001	beta-BHC	GC23	B	08/04/04 23:43
173825-001	gamma-BHC	GC23	B	08/04/04 23:43
173825-001	delta-BHC	GC23	B	08/04/04 23:43
173825-001	Heptachlor	GC23	B	08/04/04 23:43
173825-001	Aldrin	GC23	B	08/04/04 23:43
173825-001	Heptachlor epoxide	GC23	B	08/04/04 23:43
173825-001	Endosulfan I	GC23	B	08/04/04 23:43
173825-001	Dieldrin	GC23	B	08/04/04 23:43
173825-001	4,4'-DDE	GC23	B	08/04/04 23:43
173825-001	Endrin	GC23	B	08/04/04 23:43
173825-001	Endosulfan II	GC23	B	08/04/04 23:43
173825-001	Endosulfan sulfate	GC23	B	08/04/04 23:43
173825-001	4,4'-DDD	GC23	B	08/04/04 23:43
173825-001	Endrin ketone	GC23	B	08/04/04 23:43
173825-001	4,4'-DDT	GC23	B	08/04/04 23:43
173825-001	Chlordane (Technical)	GC23	B	08/04/04 23:43
173825-001	alpha-Chlordane	GC23	B	08/04/04 23:43
173825-001	gamma-Chlordane	GC23	B	08/04/04 23:43
173825-001	Methoxychlor	GC23	B	08/04/04 23:43
173825-001	Toxaphene	GC23	B	08/04/04 23:43
173825-001	TCMX	GC23	B	08/04/04 23:43
173825-001	Decachlorobiphenyl	GC23	B	08/04/04 23:43
QC260152	alpha-BHC	GC23	B	08/04/04 20:47
QC260152	beta-BHC	GC23	B	08/04/04 20:47
QC260152	gamma-BHC	GC23	B	08/04/04 20:47
QC260152	delta-BHC	GC23	B	08/04/04 20:47
QC260152	Heptachlor	GC23	B	08/04/04 20:47
QC260152	Aldrin	GC23	B	08/04/04 20:47
QC260152	Heptachlor epoxide	GC23	B	08/04/04 20:47
QC260152	Endosulfan I	GC23	B	08/04/04 20:47
QC260152	Dieldrin	GC23	B	08/04/04 20:47
QC260152	4,4'-DDE	GC23	B	08/04/04 20:47
QC260152	Endrin	GC23	B	08/04/04 20:47
QC260152	Endosulfan II	GC23	B	08/04/04 20:47
QC260152	Endosulfan sulfate	GC23	B	08/04/04 20:47
QC260152	4,4'-DDD	GC23	B	08/04/04 20:47
QC260152	Endrin ketone	GC23	B	08/04/04 20:47
QC260152	4,4'-DDT	GC23	B	08/04/04 20:47
QC260152	Chlordane (Technical)	GC23	B	08/04/04 20:47
QC260152	alpha-Chlordane	GC23	B	08/04/04 20:47
QC260152	gamma-Chlordane	GC23	B	08/04/04 20:47
QC260152	Methoxychlor	GC23	B	08/04/04 20:47
QC260152	Toxaphene	GC23	B	08/04/04 20:47
QC260152	TCMX	GC23	B	08/04/04 20:47
QC260152	Decachlorobiphenyl	GC23	B	08/04/04 20:47
QC260153	gamma-BHC	GC23	B	08/04/04 21:17
QC260153	Heptachlor	GC23	B	08/04/04 21:17
QC260153	Aldrin	GC23	B	08/04/04 21:17
QC260153	Dieldrin	GC23	B	08/04/04 21:17
QC260153	Endrin	GC23	B	08/04/04 21:17
QC260153	4,4'-DDT	GC23	B	08/04/04 21:17

Reporting Summary for 173825 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC260153	TCMX	GC23	B	08/04/04 21:17
QC260153	Decachlorobiphenyl	GC23	B	08/04/04 21:17
QC260154	gamma-BHC	GC23	B	08/05/04 00:12
QC260154	Heptachlor	GC23	B	08/05/04 00:12
QC260154	Aldrin	GC23	B	08/05/04 00:12
QC260154	Dieldrin	GC23	B	08/05/04 00:12
QC260154	Endrin	GC23	B	08/05/04 00:12
QC260154	4,4'-DDT	GC23	B	08/05/04 00:12
QC260154	TCMX	GC23	B	08/05/04 00:12
QC260154	Decachlorobiphenyl	GC23	B	08/05/04 00:12
QC260155	gamma-BHC	GC23	B	08/05/04 00:41
QC260155	Heptachlor	GC23	B	08/05/04 00:41
QC260155	Aldrin	GC23	B	08/05/04 00:41
QC260155	Dieldrin	GC23	B	08/05/04 00:41
QC260155	Endrin	GC23	B	08/05/04 00:41
QC260155	4,4'-DDT	GC23	B	08/05/04 00:41
QC260155	TCMX	GC23	B	08/05/04 00:41
QC260155	Decachlorobiphenyl	GC23	B	08/05/04 00:41

Curtis & Tompkins Laboratories **Sample Preparation Summary** **04-AUG-2004 16:30**

Batch Number : 93481
Date Extracted: 04-AUG-2004
Extracted by : Coral E. Weese
Prep Method : 3550

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993B
Spike #2 ID : 04WS0840D
Spike #3 ID :
SOP Version : 8081s_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173824-001			Treadwell & Rollo	Soil	30.16	g	20	0.663130	1		.02	0		8081	3620B	
173825-001			Treadwell & Rollo	Soil	29.78	g	20	0.671592	1		.02	0		8081	3620B	MSS
QC260152	MB			Soil	29.57	g	20	0.676361	1		.02	0		8081	3620B	
QC260153	LCS			Soil	29.66	g	20	0.674309	1		.02	1		8081	3620B	
QC260154	MS	of 173825-001		Soil	30.28	g	20	0.660502	1		.02	1		8081	3620B	
QC260155	MSD	of 173825-001		Soil	29.89	g	20	0.669120	1		.02	1		8081	3620B	

Prep Chemist: Coral Weese Reviewed By: [illegible] Date: 8/4/04

Relinquished By: Coral Weese Received By: [illegible] Date: 8/5/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 93481
LIMS Analysis: 8081
Extracted by: CW
Date Extracted: 8/4/04

Extraction Method:
- ☑ EPA 3550b Sonication
- ☐ EPA 3545 PFE (Mth#_____)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
173824-001	30.16	20.0	X	
173825-001	29.78			MSS
MB7QC260152	29.57			
LCS 3	29.66			
MS 4	30.28			
MSD 5	29.89			
		CW 8/4/04		

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	FM43310410	CW 8/4/04
dried with CH_2Cl_2-rinsed ☑ ~~granular~~ pinch Na_2SO_4 ☐ diatomaceous earth	FM4321941S	
0.02 mL of surrogate solution was added to all samples	04WS0993B	
1.0 mL of spike solution was added to all spikes	04WS0840D	
CH_2Cl_2 (lot# FM44166):Acetone(lot# FM44085) was added to all	✓	
☑ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	NA	
Soxhlets on at:		
Soxhlets off at:	✓	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	FM4321941S	
Exchanged 2x with Hexane	✓ BJCK898	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	✓

Carol Weaver 8/4/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

8/4/04
Reviewed by / Date

"C022"

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: CLW
Cleanup Date: 8/4/04

Benchbook # **BK 1851**
Page 79

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
173824-001	93481	1.0	1.0	
173825-001				
MB QC260152				
LCS 3				
MS 4				
MSD 5				

SK 8/4/04

	Mfg & Lot # / Time / Program	Initials / Date
☑ Extracts were cleaned up using Florisil cartridges	Lot# 204120-AQ	CLW 8/4/04
Florisil cartridges/ columns rinsed 3x with Hexane	BJCK898	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane		
Acetone	BM43350	
Concentrated to volumes as noted above		

Continued from page ____
Continued on page ____

Extraction Chemist / Date 8/4/04

Reviewed by / Date 8/4/04

00023

Sample ID	Weight (g)	Analysis	Comments
173824-001A	30.16	8081	
173825-001A	29.78		MSS
MB	29.57		EM43310410
LCS	29.66		~~173825-001A~~ JM 8/4/04
MS	30.28		173825-001A
MSD	29.89		
173824-001A	30.06	PCB	MSS
173825-001A	29.69		
MB	29.84		EM43310410
LCS	30.13		
MS	29.80		173824-001A
MSD	30.45		

JM 8/4/04

Continued on Page

Read and Understood By

Signed 8/4/04 Date Signed Date

Pesticides by EPA 8081	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
EPA 3550 Soil MDLs (ug/Kg)	5/08/03	5/08/03	4/16/04	4/16/04	4/28/04	4/28/04
Aldrin	0.56	0.60	0.93	0.94	0.70	0.74
a-BHC	0.55	0.56	0.87	0.77	0.37	0.65
b-BHC	0.74	0.60	0.68	0.90	0.42	0.65
d-BHC	0.59	0.61	1.0	0.93	0.53	1.2
g-BHC (Lindane)	0.64	0.48	0.95	0.78	0.30	0.65
4,4'-DDD	0.66	0.63	1.9	1.8	0.72	0.71
4,4'-DDE	0.54	0.50	2.0	2.0	0.86	0.72
4,4'-DDT	1.2	0.74	2.7	2.2	1.8	0.58
alpha-Chlordane	0.61	0.57	0.99	1.0	0.71	0.55
gamma-Chlordane	0.57	0.55	0.97	1.0	0.78	0.63
Dieldrin	0.57	0.51	2.0	2.0	0.67	0.75
Endosulfan I	0.50	0.55	1.0	1.0	1.4	1.2
Endosulfan II	0.67	0.62	1.9	1.7	1.5	1.4
Endosulfan sulfate	0.68	0.66	1.8	1.8	1.2	0.69
Endrin	0.65	0.54	2.2	2.0	0.74	0.68
Endrin aldehyde	0.50	0.56	1.9	1.8	0.87	0.79
Endrin ketone	0.83	0.65	1.9	1.7	1.2	0.79
Heptachlor	0.76	0.67	1.3	1.1	0.30	0.64
Heptachlor epoxide	0.60	0.62	1.1	1.1	0.73	0.80
Methoxychlor	1.1	3.1	11	10	4.2	1.6

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/17/04	4/17/04	4/09/04	4/09/04	4/30/04	4/30/04
Chlordane (technical)	15	13	4.8	3.8	6.1	6.2

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/19/04	4/19/04	4/10/04	4/10/04	4/30/04	4/30/04
Toxaphene	25	18	29	12	36	15

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX106(0.5)	Sampled:	08/04/04
Matrix:	Soil	Received:	08/04/04
Units:	ug/Kg	Prepared:	08/04/04
Diln Fac:	1.000	Analyzed:	08/04/04
Batch#:	93482		

Type:	SAMPLE	Moisture:	1%
Lab ID:	173825-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	160 *	65-135
Decachlorobiphenyl	111	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC260156	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	161 *	65-135
Decachlorobiphenyl	132	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

2.0

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260157	Batch#:	93482
Matrix:	Soil	Prepared:	08/04/04
Units:	ug/Kg	Analyzed:	08/04/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.9	172.9	104	80-129
Aroclor-1260	165.9	181.5	109	80-131

Surrogate	%REC	Limits
TCMX	152 *	65-135
Decachlorobiphenyl	121	65-135

*= Value outside of QC limits; see narrative

3.0

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3SS106(0.5)	Batch#:	93482
MSS Lab ID:	173824-001	Sampled:	08/04/04
Matrix:	Soil	Received:	08/04/04
Units:	ug/Kg	Prepared:	08/04/04
Basis:	dry	Analyzed:	08/04/04
Diln Fac:	1.000		

Type: MS Moisture: 5%
Lab ID: QC260158 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<4.105	178.4	232.3	130	65-155
Aroclor-1260	<4.105	178.4	206.4	116	63-127

Surrogate	%REC	Limits
TCMX	159 *	65-135
Decachlorobiphenyl	121	65-135

Type: MSD Moisture: 5%
Lab ID: QC260159 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	172.8	253.8	147	65-155	12	27
Aroclor-1260	172.8	175.4	101	63-127	13	34

Surrogate	%REC	Limits
TCMX	158 *	65-135
Decachlorobiphenyl	110	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

4.0

00029

INITIAL CALIBRATION REPORT FOR 173825 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	215_013	204310220013	pcb10_2	02-AUG-2004 21:40	04WS0970
2	215_014	204310220014	pcb25_5	02-AUG-2004 22:13	04WS0960
3	215_015	204310220015	pcb100_20	02-AUG-2004 22:46	04WS0961
4	215_016	204310220016	pcb250_50	02-AUG-2004 23:19	04WS0962
5	215_017	204310220017	pcb500_100	02-AUG-2004 23:52	04WS0963
6	215_018	204310220018	pcb750_150	03-AUG-2004 00:25	04WS0964
7	215_019	204310220019	pcb1K_200	03-AUG-2004 00:59	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	222.19	249.72	232.92	240.39	205.76	174.68	193.06	AVRG	R		0.004609		pg	216.96	12	.99	20	
Aroclor-1016 Peak # 2	A	562.53	501.92	460.15	463.25	377.78	318.34	349.18	AVRG	R		0.002308		pg	433.31	20	.99	20	
Aroclor-1016 Peak # 3	A	484.79	515.26	522.06	533.70	436.50	367.63	418.20	AVRG	R		0.002135		pg	468.31	13	.99	20	
Aroclor-1016 Peak # 4	A	311.49	350.77	348.34	364.70	297.87	262.44	298.62	AVRG	R		0.003133		pg	319.17	11	.99	20	
Aroclor-1016 Peak # 5	A	272.20	286.48	281.40	288.62	237.23	198.13	226.63	AVRG	R		0.003909		pg	255.81	14	.99	20	
Aroclor-1260 Peak # 1	A	534.49	557.25	558.61	543.99	422.20	344.29	396.21	AVRG	R		0.002085		pg	479.58	19	.99	20	
Aroclor-1260 Peak # 2	A	904.42	888.70	849.86	860.45	672.00	546.32	638.04	AVRG	R		0.001306		pg	765.68	19	.99	20	
Aroclor-1260 Peak # 3	A	480.31	419.58	458.34	454.57	367.56	297.31	349.09	AVRG	R		0.002476		pg	403.82	17	.99	20	
Aroclor-1260 Peak # 4	A	363.33	365.28	397.28	433.25	344.26	284.33	341.69	AVRG	R		0.002767		pg	361.35	13	.99	20	
Aroclor-1260 Peak # 5	A	868.22	928.30	936.04	985.95	789.30	648.83	768.31	AVRG	R		0.001181		pg	846.42	14	.99	20	
TCMX	A	9152.2	9977.5	9263.6	9902.9	8412.0	7286.0	8156.7	AVRG	R		1.126E-4		pg	8878.7	11	.99	20	
Decachlorobiphenyl	A	10877	10709	9872.1	12832	7437.8			AVRG	R		9.666E-5		pg	10346	19	.99	20	
Aroclor-1016 Peak # 1	B	242.83	242.17	239.76	258.59	221.85	183.59	206.89	AVRG	R		0.004387		pg	227.95	11	.99	20	
Aroclor-1016 Peak # 2	B	301.07	317.39	329.13	342.65	279.81	238.92	270.55	AVRG	R		0.003366		pg	297.07	12	.99	20	
Aroclor-1016 Peak # 3	B	1225.7	1232.9	1179.3	1198.8	944.96	806.07	890.17	AVRG	R		9.361E-4		pg	1068.3	17	.99	20	
Aroclor-1016 Peak # 4	B	465.77	502.61	466.00	483.84	385.83	333.37	369.79	AVRG	R		0.002328		pg	429.60	15	.99	20	
Aroclor-1016 Peak # 5	B	322.46	326.55	314.99	326.70	268.97	229.90	262.36	AVRG	R		0.003411		pg	293.13	13	.99	20	
Aroclor-1260 Peak # 1	B	804.92	843.20	864.53	921.86	729.59	623.19	723.59	AVRG	R		0.001270		pg	787.27	13	.99	20	
Aroclor-1260 Peak # 2	B	1254.5	1305.5	1297.8	1345.0	1066.2	886.63	1041.3	AVRG	R		8.540E-4		pg	1171.0	15	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

0030

INITIAL CALIBRATION REPORT FOR 173825 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	836.14	872.35	845.26	901.05	740.38	622.22	753.05	AVRG	R		0.001257		pg	795.78	12	.99	20	
Aroclor-1260 Peak # 4	B	708.28	658.49	677.16	709.83	592.01	499.26	605.88	AVRG	R		0.001573		pg	635.85	12	.99	20	
Aroclor-1260 Peak # 5	B	1689.9	1627.7	1611.2	1813.1	1468.9	1232.9	1501.8	AVRG	R		6.395E-4		pg	1563.6	12	.99	20	
TCMX	B	10333	11533	11102	11785	9884.1	8500.3	9395.7	AVRG	R		9.651E-5		pg	10362	12	.99	20	
Decachlorobiphenyl	B	12402	11918	11586	15972	9357.4			AVRG	R		8.165E-5		pg	12247	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT FOR 173825 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb250_50 IDF : 1.0
Seqnum : 204311979043 Filename : 216_043 Injected : 04-AUG-2004 13:46
Calnum : 204310220001 Caldate : 02-AUG-2004 Caltype :
Standards: 04WS0962

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	222.6836	pg	-11	15	
Aroclor-1260	A			250.0000	220.1855	pg	-12	15	
TCMX	A	8878.7	8080.3	50.00000	45.50414	pg	-9	15	
Decachlorobiphenyl	A	10346	10432	50.00000	50.41570	pg	1	15	
Aroclor-1016	B			250.0000	212.6277	pg	-15	15	
Aroclor-1260	B			250.0000	214.3779	pg	-14	15	
TCMX	B	10362	9352.5	50.00000	45.12913	pg	-10	15	
Decachlorobiphenyl	B	12247	12244	50.00000	49.98908	pg	0	15	

CONTINUING CALIBRATION REPORT FOR 173825 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb500_100 IDF : 1.0
Seqnum : 204311979058 Filename : 216_058 Injected : 04-AUG-2004 23:34
Calnum : 204310220001 Caldate : 02-AUG-2004 Caltype :
Standards: 04WS0963

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	530.1607	pg	6	15	
Aroclor-1260	A			500.0000	540.7498	pg	8	15	
TCMX	A	8878.7	10079	100.0000	113.5160	pg	14	15	
Decachlorobiphenyl	A	10346	8818.9	100.0000	85.24363	pg	-15	15	
Aroclor-1016	B			500.0000	531.9387	pg	6	15	
Aroclor-1260	B			500.0000	542.7793	pg	9	15	
TCMX	B	10362	11352	100.0000	109.5583	pg	10	15	
Decachlorobiphenyl	B	12247	10414	100.0000	85.03536	pg	-15	15	

SEQUENCE SUMMARY FOR 173825 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204310220 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
002	215_002	X	ccv			02-AUG-2004 10:20	1.0						1	
003	215_003	CCV	pcb250_50			02-AUG-2004 10:53	1.0			1			1	
012	215_012	X	hex			02-AUG-2004 21:06	1.0							
013	215_013	ICAL	pcb10_2			02-AUG-2004 21:40	1.0						2	
014	215_014	ICAL	pcb25_5			02-AUG-2004 22:13	1.0						3	
015	215_015	ICAL	pcb100_20			02-AUG-2004 22:46	1.0						4	
016	215_016	ICAL	pcb250_50			02-AUG-2004 23:19	1.0						1	
017	215_017	ICAL	pcb500_100			02-AUG-2004 23:52	1.0						5	
018	215_018	ICAL	pcb750_150			03-AUG-2004 00:25	1.0						6	
019	215_019	ICAL	pcb1K_200			03-AUG-2004 00:59	1.0						7	
021	215_021	ICV	accu_1660			03-AUG-2004 02:05	1.0			1			8	
022	215_022	X	icv			03-AUG-2004 02:38	1.0						8	
023	215_023	X	icv			03-AUG-2004 03:11	1.0						9	
026	215_026	ICAL	pcb250_50			03-AUG-2004 12:25	1.0						1	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173825 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
005	216_005	X	pcb250_50			03-AUG-2004 15:39	1.0					1	
006	216_006	X	ccv			03-AUG-2004 16:13	1.0					1	
007	216_007	CCV	ccv			03-AUG-2004 17:28	1.0	1.0			1	1	
009	216_009	CCV	ar1254			03-AUG-2004 18:34	1.0	1.0			1	2	
010	216_010	X	ccv			03-AUG-2004 19:07	1.0					2	
011	216_011	CCV	ar1232			03-AUG-2004 19:40	1.0	1.0			1	3	
012	216_012	X	ccv			03-AUG-2004 20:13	1.0					3	
014	216_014	BLANK	QC259712	93370	Water	03-AUG-2004 21:20	1.0	0.025			1		
015	216_015	BS	QC259713	93370	Water	03-AUG-2004 21:53	1.0	0.025			1		
016	216_016	BSD	QC259714	93370	Water	03-AUG-2004 22:26	1.0	0.025			1		
017	216_017	MS	QC259816	93396	Soil	03-AUG-2004 22:59	1.0	0.8273		1	1		
018	216_018	MSD	QC259817	93396	Soil	03-AUG-2004 23:33	1.0	0.8325			1		
019	216_019	MS	QC259620	93346	Soil	04-AUG-2004 00:06	1.0	0.8344			1		
020	216_020	MSD	QC259621	93346	Soil	04-AUG-2004 00:39	1.0	0.8412			1		
021	216_021	SAMPLE	173688-013	93318	Soil	04-AUG-2004 01:12	1.0	0.8401			1	spk	
022	216_022	SAMPLE	173701-001	93370	Water	04-AUG-2004 01:45	1.0	0.02404			1		
023	216_023	SAMPLE	173703-001	93370	Water	04-AUG-2004 02:19	1.0	0.02404			1		
025	216_025	CCV	pcb500_100			04-AUG-2004 03:25	1.0	1.0			1	4	
026	216_026	X	ccv			04-AUG-2004 03:58	1.0					4	
027	216_027	CCV	ar1254			04-AUG-2004 04:31	1.0	1.0			1	2	
028	216_028	X	ccv			04-AUG-2004 05:04	1.0					2	
029	216_029	CCV	ar1232			04-AUG-2004 05:38	1.0	1.0			1	3	
030	216_030	X	ccv			04-AUG-2004 06:11	1.0					3	
032	216_032	SAMPLE	173704-001	93370	Water	04-AUG-2004 07:17	1.0	0.02427			1		
033	216_033	SAMPLE	173724-001	93370	Water	04-AUG-2004 07:50	1.0	0.02451		4	1		
034	216_034	SAMPLE	173735-012	93370	Water	04-AUG-2004 08:23	1.0	0.02381			1		
035	216_035	SAMPLE	173735-013	93370	Water	04-AUG-2004 08:57	1.0	0.02381			1		
036	216_036	SAMPLE	173748-006	93370	Water	04-AUG-2004 09:30	1.0	0.02381			1		
037	216_037	SAMPLE	173752-001	93370	Water	04-AUG-2004 10:03	1.0	0.02381			1		
038	216_038	SAMPLE	173752-002	93370	Water	04-AUG-2004 10:36	1.0	0.02451			1		

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173825 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204311979 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 03-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	216_039	MS	QC259816	93396	Soil	04-AUG-2004 11:33	1.0	0.8273			1		
040	216_040	MSD	QC259817	93396	Soil	04-AUG-2004 12:06	1.0	0.8325			1		
041	216_041	SAMPLE	173724-002	93396	Soil	04-AUG-2004 12:39	1.0	0.8331			1		
043	216_043	CCV	pcb250_50			04-AUG-2004 13:46	1.0	1.0			1	1	
048	216_048	SAMPLE	173724-001	93370	Water	04-AUG-2004 16:37	1.0	0.02451		3	1		
049	216_049	LCS	QC259619	93346	Soil	04-AUG-2004 18:35	1.0	0.8472			1		
050	216_050	SAMPLE	173728-001	93346	Soil	04-AUG-2004 19:09	1.0	0.835		1	1		
051	216_051	BLANK	QC260156	93482	Soil	04-AUG-2004 19:42	1.0	0.8378		2	1		
052	216_052	LCS	QC260157	93482	Soil	04-AUG-2004 20:15	1.0	0.8297		2	1		
053	216_053	MS	QC260158	93482	Soil	04-AUG-2004 20:48	1.0	0.8475		2	1		
054	216_054	MSD	QC260159	93482	Soil	04-AUG-2004 21:21	1.0	0.821		2	1		
055	216_055	MSS	173824-001	93482	Soil	04-AUG-2004 21:54	1.0	0.8317		2	1		
056	216_056	SAMPLE	173825-001	93482	Soil	04-AUG-2004 22:27	1.0	0.842		2	1		
058	216_058	CCV	pcb500_100			04-AUG-2004 23:34	1.0	1.0			1	4	
059	216_059	X	ccv			05-AUG-2004 00:07	1.0					4	
063	216_063	BLANK	QC259936	93426	Soil	05-AUG-2004 02:20	1.0	0.8289		2	1		
064	216_064	LCS	QC259937	93426	Soil	05-AUG-2004 02:53	1.0	0.8207		1	1		
065	216_065	MS	QC259938	93426	Soil	05-AUG-2004 03:26	1.0	0.8403		2	1		
066	216_066	MSD	QC259939	93426	Soil	05-AUG-2004 03:59	1.0	0.8437		2	1		
067	216_067	SAMPLE	173773-001	93426	Soil	05-AUG-2004 04:33	1.0	0.8443		2	1		
068	216_068	MSS	173773-002	93426	Soil	05-AUG-2004 05:06	1.0	0.8314		2	1		
069	216_069	SAMPLE	173773-003	93426	Soil	05-AUG-2004 05:39	1.0	0.8463		2	1		
070	216_070	SAMPLE	173773-004	93426	Soil	05-AUG-2004 06:12	1.0	0.8466		2	1		
071	216_071	SAMPLE	173773-005	93426	Soil	05-AUG-2004 06:46	1.0	0.8426		2	1		
073	216_073	CCV	pcb250_50			05-AUG-2004 07:52	1.0	1.0			1	1	
074	216_074	X	ccv			05-AUG-2004 08:25	1.0					1	

Stds used: 1=04WS0962 2=04WS0546 3=04WS1445 4=04WS0963
Flags used: spk=5% spike rule

Reporting Summary for 173825 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173825-001	Aroclor-1016	GC06	A	08/04/04 22:27
173825-001	Aroclor-1221	GC06	A	08/04/04 22:27
173825-001	Aroclor-1232	GC06	A	08/04/04 22:27
173825-001	Aroclor-1242	GC06	A	08/04/04 22:27
173825-001	Aroclor-1248	GC06	A	08/04/04 22:27
173825-001	Aroclor-1254	GC06	A	08/04/04 22:27
173825-001	Aroclor-1260	GC06	A	08/04/04 22:27
173825-001	TCMX	GC06	A	08/04/04 22:27
173825-001	Decachlorobiphenyl	GC06	A	08/04/04 22:27
QC260156	Aroclor-1016	GC06	A	08/04/04 19:42
QC260156	Aroclor-1221	GC06	A	08/04/04 19:42
QC260156	Aroclor-1232	GC06	A	08/04/04 19:42
QC260156	Aroclor-1242	GC06	A	08/04/04 19:42
QC260156	Aroclor-1248	GC06	A	08/04/04 19:42
QC260156	Aroclor-1254	GC06	A	08/04/04 19:42
QC260156	Aroclor-1260	GC06	A	08/04/04 19:42
QC260156	TCMX	GC06	A	08/04/04 19:42
QC260156	Decachlorobiphenyl	GC06	A	08/04/04 19:42
QC260157	Aroclor-1016	GC06	A	08/04/04 20:15
QC260157	Aroclor-1260	GC06	A	08/04/04 20:15
QC260157	TCMX	GC06	A	08/04/04 20:15
QC260157	Decachlorobiphenyl	GC06	A	08/04/04 20:15
QC260158	Aroclor-1016	GC06	A	08/04/04 20:48
QC260158	Aroclor-1260	GC06	A	08/04/04 20:48
QC260158	TCMX	GC06	A	08/04/04 20:48
QC260158	Decachlorobiphenyl	GC06	A	08/04/04 20:48
QC260159	Aroclor-1016	GC06	A	08/04/04 21:21
QC260159	Aroclor-1260	GC06	A	08/04/04 21:21
QC260159	TCMX	GC06	A	08/04/04 21:21
QC260159	Decachlorobiphenyl	GC06	A	08/04/04 21:21

Curtis & Tompkins Laboratories Sample Preparation Summary 04-AUG-2004 16:44

Batch Number : 93482
Date Extracted: 04-AUG-2004
Extracted by : Coral E. Weese
Prep Method : 3550

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993B
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173824-001			Treadwell & Rollo	Soil	30.06	g	25	0.831670	1		.05	0		PCB	3665A	mss
173825-001			Treadwell & Rollo	Soil	29.69	g	25	0.842034	1		.05	0		PCB	3665A	
QC260156	MB			Soil	29.84	g	25	0.837802	1		.05	0		PCB	3665A	
QC260157	LCS			Soil	30.13	g	25	0.829738	1		.05	.05		PCB	3665A	
QC260158	MS	of 173824-001		Soil	29.5	g	25	0.847458	1		.05	.05		PCB	3665A	
QC260159	MSD	of 173824-001		Soil	30.45	g	25	0.821018	1		.05	.05		PCB	3665A	

Prep Chemist: Coral Weese Reviewed By: [illegible] Date: 8/4/04

Relinquished By: Coral Weese Received By: [illegible] Date: 8/4/04

00038

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

LIMS Batch No: 93482
LIMS Analysis PCB
Extracted by: CW
Date Extracted: 8/4/04

☑ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ EPA 3545 PFE (ASE Method# _____)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
173824-001	30.06	25.0	MS
173825-001	29.69	↓	
MB QC210156	29.84	↓	
LCS 57	30.13	↓	
MS 58	29.50	↓	
MSD 59	30.45	↓	

CW 8/4/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM432104 10	CW 8/4/04
dried with CH_2Cl_2-rinsed ☑ ~~granular~~ powder Na_2SO_4 ☐ diatomaceous earth	EM432194 15	↓
0.05 mL of surrogate solution was added to all samples	D4W50993B	
0.05 mL of spike solution 16660 was added to all spikes	D4W51320A	
1:1 CH_2Cl_2 (lot# EM44161): Acetone (lot# EM44148) was added to all	✓	
☑ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	NA	
PFE (ASE) / soxhlets on at:	↓	
PFE (ASE) / soxhlets off at:	✓	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~granular~~ powder Na_2SO_4	EM432194 15	
Concentrated to volumes noted above after exchange to Hexane Lot#	✓ BJC1898	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTB426046	
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	↓

Continued from page ____
Continued on page ____

Extraction Chemist / Date — 8/4/04

Reviewed by / Date — 8/4/04

PROJECT Soil Aliquot

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
173824-001A	30.16	8081	
173825-001A	29.78		MSS
MB	29.57		EM4331040
LCS	29.66		~~173825-001A~~ JM 8/4/04
MS	30.28		173825-001A
MSD	29.89		
173824-001A	30.06	PCB	MSS
173825-001A	29.69		
MB	29.84		EM4331040
LCS	30.13		
MS	29.80		173824-001A
MSD	30.45		

JM 8/4/04

Continued on Page

Read and Understood By

Signed 8/4/04 Date Signed Date

0040

PCBs	GC_06a	GC_06b	GC_22a	GC_22b
Soil MDLs (ug/Kg)	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1016	3.9	9.0	2.2	2.4

	GC_06a	GC_06b	GC_22a	GC_22b
	4/10/04	4/10/04	4/19/04	4/19/04
Aroclor 1221	18	15	12	12

	GC_06a	GC_06b	GC_22a	GC_22b
	2/18/04	2/18/04	2/17/04	2/17/04
Aroclor 1232	4.0	4.8	8.5	8.8

	GC_06a	GC_06b	GC_14a	GC_14b	GC_22a	GC_22b
	2/18/04	2/18/04	5/04/04	5/04/04	1/15/04	1/15/04
Aroclor 1242	5.5	5.1	4.1	3.5	3.2	1.9

	GC_06a	GC_06b	GC_22a	GC_22b
	12/11/03	12/11/03	1/23/04	1/23/04
Aroclor 1248	3.1	3.4	3.2	7.8

	GC_06a	GC_06b	GC_22a	GC_22b
	8/12/03	8/12/03	7/26/03	7/26/03
Aroclor 1254	5.4	3.2	2.6	1.8

	GC_06a	GC_06b	GC_22a	GC_22b
	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1260	3.9	3.9	1.7	4.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX106[0.5]	Batch#:	93498
Lab ID:	173825-001	Sampled:	08/04/04
Matrix:	Soil	Received:	08/04/04
Units:	mg/Kg	Prepared:	08/05/04
Basis:	dry	Analyzed:	08/05/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL
Antimony	ND	2.8
Arsenic	2.9	0.23
Barium	11	0.46
Beryllium	ND	0.093
Cadmium	ND	0.23
Chromium	44	0.46
Cobalt	5.4	0.93
Copper	4.2	0.46
Lead	8.3	0.14
Molybdenum	ND	0.93
Nickel	21	0.93
Selenium	ND	0.23
Silver	ND	0.23
Thallium	ND	0.23
Vanadium	44	0.46
Zinc	22	0.93

ND= Not Detected
RL= Reporting Limit

5.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260212	Batch#:	93498
Matrix:	Soil	Prepared:	08/05/04
Units:	mg/Kg	Analyzed:	08/05/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

6.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93498
Units:	mg/Kg	Prepared:	08/05/04
Basis:	as received	Analyzed:	08/05/04
Diln Fac:	1.000		

Type: BS Lab ID: QC260213

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.00	95	75-125
Arsenic	50.00	49.90	100	75-125
Barium	100.0	97.00	97	75-125
Beryllium	2.500	2.480	99	75-125
Cadmium	10.00	9.800	98	75-125
Chromium	100.0	97.50	98	75-125
Cobalt	25.00	24.20	97	75-125
Copper	12.50	12.60	101	75-125
Lead	100.0	98.50	99	75-125
Molybdenum	20.00	19.80	99	75-125
Nickel	25.00	24.35	97	75-125
Selenium	50.00	48.75	98	75-125
Silver	10.00	9.900	99	75-125
Thallium	50.00	48.40	97	75-125
Vanadium	25.00	24.75	99	75-125
Zinc	25.00	23.85	95	75-125

Type: BSD Lab ID: QC260214

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	98.50	99	75-125	4	30
Arsenic	50.00	50.50	101	75-125	1	30
Barium	100.0	97.50	98	75-125	1	30
Beryllium	2.500	2.535	101	75-125	2	30
Cadmium	10.00	9.950	100	75-125	2	30
Chromium	100.0	99.50	100	75-125	2	30
Cobalt	25.00	24.70	99	75-125	2	30
Copper	12.50	12.80	102	75-125	2	30
Lead	100.0	99.50	100	75-125	1	30
Molybdenum	20.00	20.35	102	75-125	3	30
Nickel	25.00	24.70	99	75-125	1	30
Selenium	50.00	48.85	98	75-125	0	30
Silver	10.00	10.10	101	75-125	2	30
Thallium	50.00	48.75	98	75-125	1	30
Vanadium	25.00	25.25	101	75-125	2	30
Zinc	25.00	24.20	97	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173825	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	93498
MSS Lab ID:	173819-004	Sampled:	08/03/04
Matrix:	Soil	Received:	08/04/04
Units:	mg/Kg	Prepared:	08/05/04
Basis:	as received	Analyzed:	08/05/04
Diln Fac:	1.000		

Type: MS Lab ID: QC260215

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.719	74.63	40.30	52 *	75-125
Arsenic	2.224	37.31	38.06	96	75-125
Barium	60.42	74.63	127.2	90	75-125
Beryllium	0.06302	1.866	1.896	98	75-125
Cadmium	0.1250	7.463	6.940	91	75-125
Chromium	16.82	74.63	148.1	176 *	75-125
Cobalt	6.146	18.66	27.84	116	75-125
Copper	7.344	9.328	16.75	101	75-125
Lead	2.438	74.63	72.01	93	75-125
Molybdenum	0.2802	14.93	13.99	92	75-125
Nickel	17.24	18.66	41.42	130 *	75-125
Selenium	<0.1800	37.31	35.78	96	75-125
Silver	0.07031	7.463	7.537	100	75-125
Thallium	<0.1600	37.31	33.69	90	75-125
Vanadium	27.50	18.66	45.90	99	75-125
Zinc	19.69	18.66	36.83	92	75-125

Type: MSD Lab ID: QC260216

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	87.72	52.19	58 *	75-125	10	30
Arsenic	43.86	44.74	97	75-125	1	30
Barium	87.72	151.8	104	75-125	8	30
Beryllium	2.193	2.215	98	75-125	0	30
Cadmium	8.772	8.158	92	75-125	0	30
Chromium	87.72	97.37	92	75-125	54 *	30
Cobalt	21.93	26.97	95	75-125	16	30
Copper	10.96	18.60	103	75-125	1	30
Lead	87.72	84.65	94	75-125	0	30
Molybdenum	17.54	16.71	94	75-125	2	30
Nickel	21.93	37.76	94	75-125	18	30
Selenium	43.86	41.84	95	75-125	1	30
Silver	8.772	8.816	100	75-125	0	30
Thallium	43.86	39.82	91	75-125	1	30
Vanadium	21.93	48.25	95	75-125	2	30
Zinc	21.93	40.70	96	75-125	2	30

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

8.0

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74314384010
Filename : tr244321
IDF : 1.0
PDF : 52.08
Run type : MSS
Samplenum: 173819-004
Matrix : Soil
Batchnum : 93498
Inj : 05-AUG-2004 09:01
Units : mg/Kg

Instid : MET07
Seqnum : 74314384011
Filename : tr244322
IDF : 5.0
PDF : 52.08
Run type : SER
Samplenum: QC260217
Matrix : Soil
Batchnum : 93498
Inj : 05-AUG-2004 09:06

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	4590	5.21	4350	26.0	5	10	
Antimony	ND	3.13	ND	15.6	--	10	u
Arsenic	2.22	0.260	2.47	1.30	--	10	u
Barium	60.4	0.521	57.6	2.60	5	10	u
Beryllium	ND	0.104	ND	0.521	--	10	u
Cadmium	ND	0.260	ND	1.30	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	16.8	0.521	16.8	2.60	0	10	u
Cobalt	6.15	1.04	6.20	5.21	1	10	u
Copper	7.34	0.521	7.55	2.60	3	10	u
Iron	*** usable MSS data not found ***						
Lead	2.44	0.156	2.31	0.781	--	10	u
Magnesium	2160	26.0	2150	130	0	10	
Manganese	149	0.521	146	2.60	2	10	
Molybdenum	ND	1.04	ND	5.21	--	10	u
Nickel	17.2	1.04	17.5	5.21	2	10	u
Selenium	ND	0.260	ND	1.30	--	10	u
Silver	ND	0.260	ND	1.30	--	10	u
Thallium	ND	0.260	ND	1.30	--	10	u
Vanadium	27.5	0.521	27.1	2.60	2	10	u
Zinc	19.7	1.04	19.6	5.21	1	10	u
Titanium	*** usable MSS data not found ***						

u=use

Method: 6010B Standard: blank
Run Time: 08/05/04 07:36:57

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.002	.001	.001	-.268	.005	.000
SDev	.001	.000	.001	.001	.012	.001	.000
%RSD	100.	23.8	117.	78.8	4.67	13.4	141.
#1	-.000	.001	.000	.000	-.276	.005	.000
#2	-.001	.002	.002	.001	-.259	.004	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.006	.005	-.001	.000	.001	-.009
SDev	.000	.001	.002	.002	.001	.001	.002
%RSD	52.0	12.9	44.5	280.	208.	74.7	21.9
#1	-.001	.006	.003	.001	.001	.000	-.010
#2	-.001	.007	.006	-.003	-.000	.001	-.007

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	-.002	-.005	.000	.028	.0553	-.0037
SDev	.000	.001	.001	.001	.001	.0029	.0004
%RSD	6.00	78.9	21.1	157.	4.51	5.209	12.14
#1	.007	-.003	-.004	-.000	.029	.0573	-.0040
#2	.007	-.001	-.005	.001	.027	.0533	-.0034

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0020	-.0001	.001	.172
SDev	.0002	.0001	.001	.008
%RSD	12.06	98.53	94.3	4.54
#1	-.0018	-.0000	.001	.178
#2	-.0021	-.0001	.000	.167

Method: 6010B Standard: cst hi
Run Time: 08/05/04 07:40:39

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.29	.724	.283	14.3	2.54	1.05	.215
SDev	.01	.001	.002	.0	.01	.00	.001
%RSD	1.12	.138	.568	.093	.415	.013	.470
#1	1.28	.724	.282	14.3	2.53	1.05	.215
#2	1.30	.725	.284	14.3	2.55	1.05	.216

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.703	.467	.848	.824	2.14	1.79	.327
SDev	.002	.000	.001	.009	.03	.00	.001
%RSD	.322	.086	.113	1.07	1.44	.013	.414
#1	.702	.467	.847	.818	2.12	1.79	.326
#2	.705	.467	.848	.830	2.16	1.79	.328

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.356	.263	.197	.791	.195	.1527	.2706
SDev	.002	.000	.001	.001	.000	.0007	.0010
%RSD	.685	.099	.258	.147	.101	.4708	.3552
#1	.354	.263	.196	.790	.194	.1532	.2700
#2	.358	.263	.197	.792	.195	.1522	.2713

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1082	.1575	1.02	6.23
SDev	.0013	.0004	.00	.01
%RSD	1.168	.2470	.171	.164
#1	.1073	.1573	1.02	6.22
#2	.1091	.1578	1.02	6.24

Standardization Report 08/05/04 07:44:06 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	772.073	.654853	08/05/04 07:40:39
Sb206A	206.832	Multiple	Standards	1356.25	-2.23755	08/05/04 07:40:39
As1890	189.042	Multiple	Standards	1777.91	-2.08242	08/05/04 07:40:39
Ba4934	493.409	Multiple	Standards	69.7361	-.041892	08/05/04 07:40:39
Be3130	313.042	Multiple	Standards	34.4248	9.20889	08/05/04 07:40:39
Cd2265	226.502	Multiple	Standards	95.4803	-.442879	08/05/04 07:40:39
Cr2677	267.716	Multiple	Standards	930.428	-.177597	08/05/04 07:40:39
Co2286	228.616	Multiple	Standards	712.050	.576382	08/05/04 07:40:39
Cu3247	324.754	Multiple	Standards	434.349	-2.77684	08/05/04 07:40:39
Pb2203	220.351	Multiple	Standards	593.670	-2.69719	08/05/04 07:40:39
Pb220A	220.352	Multiple	Standards	600.939	.527350	08/05/04 07:40:39
Mo2020	202.030	Multiple	Standards	467.174	-.150849	08/05/04 07:40:39
Ni2316	231.604	Multiple	Standards	279.686	-.254983	08/05/04 07:40:39
Se1960	196.021	Multiple	Standards	1489.85	13.1550	08/05/04 07:40:39
Se196A	196.022	Multiple	Standards	1432.29	-10.2284	08/05/04 07:40:39
Ag3280	328.068	Multiple	Standards	378.481	.636815	08/05/04 07:40:39
Tl1908	190.864	Multiple	Standards	2500.68	11.9183	08/05/04 07:40:39
V_2924	292.402	Multiple	Standards	632.578	-.228537	08/05/04 07:40:39
Zn2138	213.856	Multiple	Standards	621.533	-17.6222	08/05/04 07:40:39
Al3082	308.215	Multiple	Standards	10457.8	-578.432	08/05/04 07:40:39
Ca3179	317.933	Multiple	Standards	7290.15	26.9424	08/05/04 07:40:39
Fe2714	271.441	Multiple	Standards	9502.12	18.7170	08/05/04 07:40:39
Mg2790	279.079	Multiple	Standards	12683.7	.856146	08/05/04 07:40:39
Mn2576	257.610	Multiple	Standards	98.1632	-.050638	08/05/04 07:40:39
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/05/04 07:40:39
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/05/04 07:40:39
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/05/04 07:40:39
Ti3349	334.941	Multiple	Standards	165.103	-28.4446	08/05/04 07:40:39

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384001
Run Name :
Filename : tr244312
Injected : 05-AUG-2004 07:44
Caltype :

Standards: 04WS1252

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1001.000	ug/L	0	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	501.0000	ug/L	0	5	
Barium	1000.000	1000.000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2025.000	ug/L	1	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	504.0000	ug/L	1	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1005.000	ug/L	1	5	
Lead	500.0000	503.0000	ug/L	1	5	
Magnesium	2000.000	2012.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1020.000	ug/L	2	5	
Nickel	500.0000	503.0000	ug/L	1	5	
Selenium	500.0000	503.0000	ug/L	1	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	500.0000	ug/L	0	5	
Titanium	1000.000	1010.000	ug/L	1	5	
Vanadium	500.0000	504.0000	ug/L	1	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74314384002 Filename : tr244313 Injected : 05-AUG-2004 08:01
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	466.2000	ug/L	-7	10	
Antimony	500.0000	487.0000	ug/L	-3	10	
Arsenic	250.0000	239.0000	ug/L	-4	10	
Barium	500.0000	469.0000	ug/L	-6	10	
Beryllium	50.00000	47.80000	ug/L	-4	10	
Cadmium	50.00000	48.10000	ug/L	-4	10	
Calcium	1000.000	967.4000	ug/L	-3	10	
Chromium	100.0000	96.00000	ug/L	-4	10	
Cobalt	250.0000	234.0000	ug/L	-6	10	
Copper	100.0000	97.00000	ug/L	-3	10	
Iron	500.0000	469.7000	ug/L	-6	10	
Lead	250.0000	241.0000	ug/L	-4	10	
Magnesium	1000.000	955.2000	ug/L	-4	10	
Manganese	50.00000	46.70000	ug/L	-7	10	
Molybdenum	500.0000	491.0000	ug/L	-2	10	
Nickel	250.0000	238.0000	ug/L	-5	10	
Selenium	250.0000	237.0000	ug/L	-5	10	
Silver	50.00000	48.00000	ug/L	-4	10	
Thallium	250.0000	234.0000	ug/L	-6	10	
Titanium	500.0000	481.0000	ug/L	-4	10	
Vanadium	250.0000	236.0000	ug/L	-6	10	
Zinc	50.00000	47.80000	ug/L	-4	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384004
Run Name :
Filename : tr244315
Injected : 05-AUG-2004 08:11
Caltype :

Standards: 04WS1044

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	115.1000	ug/L	15	50	
Antimony	60.00000	59.30000	ug/L	-1	50	
Arsenic	5.000000	5.880000	ug/L	18	50	
Barium	10.00000	9.810000	ug/L	-2	50	
Beryllium	2.000000	1.840000	ug/L	-8	50	
Cadmium	5.000000	5.090000	ug/L	2	50	
Calcium	200.0000	222.8000	ug/L	11	50	
Chromium	10.00000	10.20000	ug/L	2	50	
Cobalt	20.00000	19.30000	ug/L	-4	50	
Copper	10.00000	11.00000	ug/L	10	50	
Iron	100.0000	113.6000	ug/L	14	50	
Lead	3.000000	2.950000	ug/L	-2	50	
Magnesium	200.0000	203.2000	ug/L	2	50	
Manganese	10.00000	9.770000	ug/L	-2	50	
Molybdenum	20.00000	22.40000	ug/L	12	50	
Nickel	20.00000	19.80000	ug/L	-1	50	
Selenium	5.000000	3.230000	ug/L	-35	50	
Silver	5.000000	5.480000	ug/L	10	50	
Thallium	5.000000	2.950000	ug/L	-41	50	
Vanadium	10.00000	10.20000	ug/L	2	50	
Zinc	20.00000	20.00000	ug/L	0	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384014
Run Name :
Filename : tr244325
IDF : 1.0
Injected : 05-AUG-2004 09:23
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	473.0000	ug/L	-5	10	
Antimony		500.0000	507.0000	ug/L	1	10	
Arsenic		250.0000	245.0000	ug/L	-2	10	
Barium		500.0000	476.0000	ug/L	-5	10	
Beryllium		50.00000	49.60000	ug/L	-1	10	
Cadmium		50.00000	48.70000	ug/L	-3	10	
Calcium		1000.000	1095.000	ug/L	10	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	561.8000	ug/L	**12**	10	c+ **
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	1003.000	ug/L	0	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	243.0000	ug/L	-3	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	228.0000	ug/L	-9	10	
Titanium		500.0000	501.0000	ug/L	0	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	49.70000	ug/L	-1	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384026
Run Name :
Filename : tr244337
IDF : 1.0
Injected : 05-AUG-2004 10:20
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	696.2000	ug/L	-7	10	
Antimony		750.0000	748.0000	ug/L	0	10	
Arsenic		375.0000	365.0000	ug/L	-3	10	
Barium		750.0000	701.0000	ug/L	-7	10	
Beryllium		75.00000	74.60000	ug/L	-1	10	
Cadmium		75.00000	71.20000	ug/L	-5	10	
Calcium		1500.000	1588.000	ug/L	6	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	776.9000	ug/L	4	10	
Lead		375.0000	369.0000	ug/L	-2	10	
Magnesium		1500.000	1503.000	ug/L	0	10	
Manganese		75.00000	72.80000	ug/L	-3	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	361.0000	ug/L	-4	10	
Selenium		375.0000	363.0000	ug/L	-3	10	
Silver		75.00000	75.10000	ug/L	0	10	
Thallium		375.0000	337.0000	ug/L	-10	10	
Titanium		750.0000	747.0000	ug/L	0	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	73.70000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384038
Run Name :
Filename : tr244350
IDF : 1.0
Injected : 05-AUG-2004 11:22
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	491.5000	ug/L	-2	10	
Antimony		500.0000	500.0000	ug/L	0	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	487.0000	ug/L	-3	10	
Beryllium		50.00000	49.20000	ug/L	-2	10	
Cadmium		50.00000	49.80000	ug/L	0	10	
Calcium		1000.000	1059.000	ug/L	6	10	
Chromium		100.0000	99.90000	ug/L	0	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	508.7000	ug/L	2	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	999.5000	ug/L	0	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	242.0000	ug/L	-3	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	233.0000	ug/L	-7	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	50.40000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384050
Run Name :
Filename : tr244362
IDF : 1.0
Injected : 05-AUG-2004 12:14
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	746.3000	ug/L	0	10	
Antimony		750.0000	734.0000	ug/L	-2	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	726.0000	ug/L	-3	10	
Beryllium		75.00000	72.60000	ug/L	-3	10	
Cadmium		75.00000	74.10000	ug/L	-1	10	
Calcium		1500.000	1524.000	ug/L	2	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	771.3000	ug/L	3	10	
Lead		375.0000	363.0000	ug/L	-3	10	
Magnesium		1500.000	1483.000	ug/L	-1	10	
Manganese		75.00000	70.90000	ug/L	-5	10	
Molybdenum		750.0000	720.0000	ug/L	-4	10	
Nickel		375.0000	368.0000	ug/L	-2	10	
Selenium		375.0000	360.0000	ug/L	-4	10	
Silver		75.00000	73.50000	ug/L	-2	10	
Thallium		375.0000	348.0000	ug/L	-7	10	
Titanium		750.0000	735.0000	ug/L	-2	10	
Vanadium		375.0000	359.0000	ug/L	-4	10	
Zinc		75.00000	73.90000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384062
Run Name :
Filename : tr244374
IDF : 1.0
Injected : 05-AUG-2004 13:24
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	525.7000	ug/L	5	10	
Antimony		500.0000	510.0000	ug/L	2	10	
Arsenic		250.0000	257.0000	ug/L	3	10	
Barium		500.0000	508.0000	ug/L	2	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	52.10000	ug/L	4	10	
Calcium		1000.000	1015.000	ug/L	2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	483.6000	ug/L	-3	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	47.40000	ug/L	-5	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	52.20000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384071
Run Name :
Filename : tr244383
IDF : 1.0
Injected : 05-AUG-2004 14:05
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	811.6000	ug/L	8	10	
Antimony		750.0000	773.0000	ug/L	3	10	
Arsenic		375.0000	388.0000	ug/L	3	10	
Barium		750.0000	777.0000	ug/L	4	10	
Beryllium		75.00000	73.90000	ug/L	-1	10	
Cadmium		75.00000	78.40000	ug/L	5	10	
Calcium		1500.000	1526.000	ug/L	2	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	366.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	748.1000	ug/L	0	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1538.000	ug/L	3	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	750.0000	ug/L	0	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	74.50000	ug/L	-1	10	
Thallium		375.0000	375.0000	ug/L	0	10	
Titanium		750.0000	765.0000	ug/L	2	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	77.50000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384003 Run Name: Injected: 05-AUG-2004 08:07
Filename: tr244314 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.3300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.2000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384015 Run Name: Injected: 05-AUG-2004 09:27
Filename: tr244326 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	[4.5700]	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[51.490]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[36.500]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[12.490]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.8900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.7700]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384027 Run Name: Injected: 05-AUG-2004 10:28
Filename: tr244338 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[39.990]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[33.510]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[8.7730]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[7.7000]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.4500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384039 Run Name: Injected: 05-AUG-2004 11:26
Filename: tr244351 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[35.540]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[27.570]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[8.3990]	500.0000	ug/L	<RL
Manganese	[0.5140]	10.00000	ug/L	<RL
Molybdenum	[2.4500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.3000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384051 Run Name: Injected: 05-AUG-2004 12:18
Filename: tr244363 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[29.590]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[51.720]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[14.980]	500.0000	ug/L	<RL
Manganese	[0.6030]	10.00000	ug/L	<RL
Molybdenum	[5.5100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.4000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384063 Run Name: Injected: 05-AUG-2004 13:29
Filename: tr244375 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[4.2300]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.7070]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[21.140]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[26.330]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[10.600]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.8000]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.5300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384072 Run Name: Injected: 05-AUG-2004 14:09
Filename: tr244384 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[92.690]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.6180]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[28.980]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[27.830]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[24.740]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[10.900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.3900]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74314384005 Run Name: Injected: 05-AUG-2004 08:34
Filename: tr244316 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[3.8300]	60.00000	ug/L	<RL
Arsenic	[3.7800]	5.000000	ug/L	<RL
Barium	[0.1020]	10.00000	ug/L	<RL
Beryllium	[-1.000]	2.000000	ug/L	<RL
Cadmium	[0.3790]	5.000000	ug/L	<RL
Chromium	[3.2000]	10.00000	ug/L	<RL
Cobalt	[0.8540]	10.00000	ug/L	<RL
Copper	[-1.670]	10.00000	ug/L	<RL
Lead	-3.33000	3.000000	ug/L	<RL
Manganese	[2.1000]	10.00000	ug/L	<RL
Molybdenum	[-0.204]	20.00000	ug/L	<RL
Nickel	[2.2200]	20.00000	ug/L	<RL
Selenium	[-1.900]	5.000000	ug/L	<RL
Silver	[-0.101]	5.000000	ug/L	<RL
Thallium	[-3.900]	5.000000	ug/L	<RL
Titanium	23.60000	10.00000	ug/L	<RL a+ ***
Vanadium	[-3.780]	10.00000	ug/L	<RL
Zinc	[0.3890]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	496100	ug/L	99
Calcium	500000	452600.	ug/L	91
Iron	200000	176100	ug/L	88
Magnesium	500000	512000	ug/L	102

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384006
Run Name :
Filename : tr244317
Injected : 05-AUG-2004 08:38
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	510800.0	ug/L	2		
Antimony	500.0000	515.0000	ug/L	3	20	
Arsenic	500.0000	497.0000	ug/L	-1	20	
Barium	500.0000	462.0000	ug/L	-8	20	
Beryllium	500.0000	487.0000	ug/L	-3	20	
Cadmium	1000.000	873.0000	ug/L	-13	20	
Calcium	500000.0	463300.0	ug/L	-7		
Chromium	500.0000	460.0000	ug/L	-8	20	
Cobalt	500.0000	465.0000	ug/L	-7	20	
Copper	500.0000	510.0000	ug/L	2	20	
Iron	200000.0	179800.0	ug/L	-10		
Lead	1000.000	939.0000	ug/L	-6	20	
Magnesium	500000.0	523800.0	ug/L	5		
Manganese	500.0000	461.0000	ug/L	-8	20	
Molybdenum	500.0000	477.0000	ug/L	-5	20	
Nickel	1000.000	867.0000	ug/L	-13	20	
Selenium	500.0000	501.0000	ug/L	0	20	
Silver	1000.000	858.0000	ug/L	-14	20	
Thallium	500.0000	455.0000	ug/L	-9	20	
Titanium	20000.00	20800.00	ug/L	4		
Vanadium	500.0000	468.0000	ug/L	-6	20	
Zinc	1000.000	956.0000	ug/L	-4	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74314384070
Run Name :
Filename : tr244382
Injected : 05-AUG-2004 13:59
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	516100.0	ug/L	3		
Antimony	500.0000	555.0000	ug/L	11	20	
Arsenic	500.0000	537.0000	ug/L	7	20	
Barium	500.0000	512.0000	ug/L	2	20	
Beryllium	500.0000	481.0000	ug/L	-4	20	
Cadmium	1000.000	966.0000	ug/L	-3	20	
Calcium	500000.0	458700.0	ug/L	-8		
Chromium	500.0000	476.0000	ug/L	-5	20	
Cobalt	500.0000	472.0000	ug/L	-6	20	
Copper	500.0000	507.0000	ug/L	1	20	
Iron	200000.0	181900.0	ug/L	-9		
Lead	1000.000	976.0000	ug/L	-2	20	
Magnesium	500000.0	536800.0	ug/L	7		
Manganese	500.0000	453.0000	ug/L	-9	20	
Molybdenum	500.0000	497.0000	ug/L	-1	20	
Nickel	1000.000	932.0000	ug/L	-7	20	
Selenium	500.0000	538.0000	ug/L	8	20	
Silver	1000.000	873.0000	ug/L	-13	20	
Thallium	500.0000	510.0000	ug/L	2	20	
Titanium	20000.00	21400.00	ug/L	7		
Vanadium	500.0000	474.0000	ug/L	-5	20	
Zinc	1000.000	1020.000	ug/L	2	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74314384 Instrument: MET07 TJA Trace ICP Begun: 05-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr244312	CS				05-AUG-2004 07:44	1.0	1.0			1	
002	tr244313	ICV				05-AUG-2004 08:01	1.0	1.0			2	
003	tr244314	ICB				05-AUG-2004 08:07	1.0	1.0				
004	tr244315	CRI				05-AUG-2004 08:11	1.0	1.0			3	
005	tr244316	ICSA				05-AUG-2004 08:34	1.0	1.0	1		4	4:MG=512000
006	tr244317	ICSAB				05-AUG-2004 08:38	1.0	1.0			5	5:MG=523800
007	tr244318	BLANK	QC260212	93498	Soil	05-AUG-2004 08:47	1.0	50.0	1			
008	tr244319	BS	QC260213	93498	Soil	05-AUG-2004 08:51	1.0	50.0	2			
009	tr244320	BSD	QC260214	93498	Soil	05-AUG-2004 08:55	1.0	50.0	2			
010	tr244321	MSS	173819-004	93498	Soil	05-AUG-2004 09:01	1.0	52.08	3			2:CA=237700
011	tr244322	SER	QC260217	93498	Soil	05-AUG-2004 09:06	5.0	52.08				
012	tr244323	MS	QC260215	93498	Soil	05-AUG-2004 09:11	1.0	37.31		2		4:FE=291000
013	tr244324	MSD	QC260216	93498	Soil	05-AUG-2004 09:15	1.0	43.86		1		3:CA=279600
014	tr244325	CCV				05-AUG-2004 09:23	1.0	1.0	1		6	
015	tr244326	CCB				05-AUG-2004 09:27	1.0	1.0				
016	tr244327	BLANK	QC260218	93499	Water	05-AUG-2004 09:34	1.0	1.0	2			
017	tr244328	BS	QC260219	93499	Water	05-AUG-2004 09:38	1.0	1.0	2			
018	tr244329	BSD	QC260220	93499	Water	05-AUG-2004 09:42	1.0	1.0	2			
019	tr244330	MSS	173798-001	93499	Water	05-AUG-2004 09:48	1.0	1.0	2			
020	tr244331	MS	QC260221	93499	Water	05-AUG-2004 09:52	1.0	1.0				
021	tr244332	MSD	QC260222	93499	Water	05-AUG-2004 09:56	1.0	1.0				
022	tr244333	SAMPLE	173820-001	93499	Water	05-AUG-2004 10:01	1.0	1.0				2:MG=674400
023	tr244334	SAMPLE	173823-001	93499	Water	05-AUG-2004 10:05	1.0	1.0				
024	tr244335	SAMPLE	173825-001	93498	Soil	05-AUG-2004 10:11	1.0	45.87				2:FE=307500
025	tr244336	SAMPLE	173824-001	93498	Soil	05-AUG-2004 10:15	1.0	48.54				2:FE=303400
026	tr244337	CCV				05-AUG-2004 10:20	1.0	1.0			7	
027	tr244338	CCB				05-AUG-2004 10:28	1.0	1.0				
028	tr244339	SAMPLE	173802-001	93498	Soil	05-AUG-2004 10:35	1.0	46.30				4:FE=380200
029	tr244340	SAMPLE	173802-002	93498	Soil	05-AUG-2004 10:39	1.0	43.86	1			5:FE=936400
030	tr244341	SAMPLE	173802-001	93498	Soil	05-AUG-2004 10:44	1.0	46.30				4:FE=383900
031	tr244343	SAMPLE	173804-001	93498	Soil	05-AUG-2004 10:53	1.0	45.05				3:FE=558300

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319

Analyst: Date:

170

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74314384 Instrument: MET07 TJA Trace ICP Begun: 05-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr244344	SAMPLE	173804-002	93498	Soil	05-AUG-2004 10:57	1.0	45.45			4:CA=855700
033	tr244345	SAMPLE	173815-001	93498	Miscel	05-AUG-2004 11:01	1.0	42.74			
034	tr244346	SAMPLE	173815-002	93498	Miscel	05-AUG-2004 11:05	1.0	43.48			
035	tr244347	SAMPLE	173815-003	93498	Miscel	05-AUG-2004 11:09	1.0	39.37	1		1:V=24100.0
036	tr244348	SAMPLE	173802-002	93498	Soil	05-AUG-2004 11:14	5.0	43.86			1:FE=196000
037	tr244349	SAMPLE	173815-003	93498	Miscel	05-AUG-2004 11:18	2.0	39.37			
038	tr244350	CCV				05-AUG-2004 11:22	1.0	1.0		6	
039	tr244351	CCB				05-AUG-2004 11:26	1.0	1.0			
040	tr244352	SAMPLE	173819-003	93498	Soil	05-AUG-2004 11:30	1.0	40.0			3:FE=339500
041	tr244353	SAMPLE	173819-005	93498	Soil	05-AUG-2004 11:34	1.0	39.06			2:FE=295900
042	tr244354	SAMPLE	173819-003	93498	Soil	05-AUG-2004 11:38	1.0	40.0			3:FE=340400
043	tr244355	SAMPLE	173819-005	93498	Soil	05-AUG-2004 11:42	1.0	39.06			3:FE=299300
044	tr244356	SAMPLE	173819-007	93498	Soil	05-AUG-2004 11:46	1.0	35.46			2:FE=301900
045	tr244357	SAMPLE	173819-008	93498	Soil	05-AUG-2004 11:50	1.0	52.63			2:FE=237100
046	tr244358	SAMPLE	173819-009	93498	Soil	05-AUG-2004 11:54	1.0	45.05			2:FE=279500
047	tr244359	SAMPLE	173819-012	93498	Soil	05-AUG-2004 11:58	1.0	49.02			1:FE=236600
048	tr244360	SAMPLE	173819-013	93498	Soil	05-AUG-2004 12:02	1.0	47.17			2:FE=274500
049	tr244361	SAMPLE	173783-004	93498	Soil	05-AUG-2004 12:06	1.0	40.0			3:FE=626300
050	tr244362	CCV				05-AUG-2004 12:14	1.0	1.0		7	
051	tr244363	CCB				05-AUG-2004 12:18	1.0	1.0			
052	tr244364	SAMPLE	173783-004	93498	Soil	05-AUG-2004 12:22	1.0	40.0			3:FE=627900
053	tr244365	BLANK	QC260273	93513	WET DI	05-AUG-2004 12:30	1.0	1.0	1		
054	tr244366	BS	QC260274	93513	WET DI	05-AUG-2004 12:34	1.0	1.0	1		
055	tr244367	BSD	QC260275	93513	WET DI	05-AUG-2004 12:38	1.0	1.0	1		
056	tr244368	MSS	173738-007	93513	WET DI	05-AUG-2004 12:44	1.0	1.0	1		
057	tr244369	SDUP	QC260276	93513	WET DI	05-AUG-2004 12:48	1.0	1.0			
058	tr244370	SSPIKE	QC260277	93513	WET DI	05-AUG-2004 12:52	1.0	1.0			
059	tr244371	SAMPLE	173738-008	93513	WET DI	05-AUG-2004 12:57	1.0	1.0			
060	tr244372	SAMPLE	173738-009	93513	WET DI	05-AUG-2004 13:01	1.0	1.0			
061	tr244373	SAMPLE	173738-010	93513	WET DI	05-AUG-2004 13:09	1.0	1.0			
062	tr244374	CCV				05-AUG-2004 13:24	1.0	1.0		6	

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319

Analyst: Date: 8/05/04

0071

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74314384 Instrument: MET07 TJA Trace ICP Begun: 05-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	tr244375	CCB				05-AUG-2004 13:29	1.0	1.0			
064	tr244376	SAMPLE	173738-011	93513	WET DI	05-AUG-2004 13:33	1.0	1.0			
065	tr244377	SAMPLE	173738-012	93513	WET DI	05-AUG-2004 13:37	1.0	1.0	1		
066	tr244378	SAMPLE	173738-013	93513	WET DI	05-AUG-2004 13:41	1.0	1.0			
067	tr244379	SAMPLE	173738-014	93513	WET DI	05-AUG-2004 13:45	1.0	1.0			
068	tr244380	SAMPLE	173738-015	93513	WET DI	05-AUG-2004 13:49	1.0	1.0			
069	tr244381	SAMPLE	173738-012	93513	WET DI	05-AUG-2004 13:53	1.0	1.0			
070	tr244382	ICSAB				05-AUG-2004 13:59	1.0	1.0		5	5:MG=536800
071	tr244383	CCV				05-AUG-2004 14:05	1.0	1.0		7	
072	tr244384	CCB				05-AUG-2004 14:09	1.0	1.0			

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319

Analyst: _____ Date: _____

172

REPORTING SUMMARY FOR 173825 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN	
173825-001	MET07	08/05/04 10:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260212	MET07	08/05/04 08:47	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260213	MET07	08/05/04 08:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260214	MET07	08/05/04 08:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260215	MET07	08/05/04 09:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260216	MET07	08/05/04 09:15	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260217	MET07	08/05/04 09:06	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary 05-AUG-2004 02:01

Batch Number : 93498
Date Extracted: 05-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173783-004			Clayton Group Services	Soil	1.25	g	50	40.000000	1					T26/ICP		
173802-001			URS Corporation	Soil	1.08	g	50	46.296296	1					T26/ICP		
173802-002			URS Corporation	Soil	1.14	g	50	43.859649	1					T26/ICP		
173804-001			URS Corporation	Soil	1.11	g	50	45.045045	1					T26/ICP		
173804-002			URS Corporation	Soil	1.1	g	50	45.454545	1					T26/ICP		
173815-001			ConocoPhillips Company	Miscell.	1.17	g	50	42.735043	1					V		
173815-002			ConocoPhillips Company	Miscell.	1.15	g	50	43.478261	1					V		
173815-003			ConocoPhillips Company	Miscell.	1.27	g	50	39.370079	1					V		
173819-003			Blasland, Bouck & Lee	Soil	1.25	g	50	40.000000	1					PP13/ICAP		
173819-004			Blasland, Bouck & Lee	Soil	.96	g	50	52.083333	1					PP13/ICAP		mss
173819-005			Blasland, Bouck & Lee	Soil	1.28	g	50	39.062500	1					PP13/ICAP		
173819-007			Blasland, Bouck & Lee	Soil	1.41	g	50	35.460993	1					PP13/ICAP		
173819-008			Blasland, Bouck & Lee	Soil	.95	g	50	52.631579	1					PP13/ICAP		
173819-009			Blasland, Bouck & Lee	Soil	1.11	g	50	45.045045	1					PP13/ICAP		
173819-012			Blasland, Bouck & Lee	Soil	1.02	g	50	49.019608	1					PP13/ICAP		
173819-013			Blasland, Bouck & Lee	Soil	1.06	g	50	47.169811	1					PP13/ICAP		
173824-001			Treadwell & Rollo	Soil	1.03	g	50	48.543689	1					T26/ICP		
173825-001			Treadwell & Rollo	Soil	1.09	g	50	45.871560	1					T26/ICP		
QC260212	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC260213	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260214	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260215	MS	of 173819-004		Soil	1.34	g	50	37.313433	1		.5	.5		ICAP		
QC260216	MSD	of 173819-004		Soil	1.14	g	50	43.859649	1		.5	.5		ICAP		
QC260217	SER	of 173819-004		Soil	.96	g	50	52.083333	1					ICAP		

Prep Chemist: [signature] Reviewed By: [signature] Date: 8/05/04

Relinquished By: [signature] Received By: [signature] Date: 8/05/04

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 93498
Date Digested: 8/4/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 28

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLKQC 260212		Ø	50.0	Y	
*	BS 260213					
*	BSD 260214					
*	173819-004MS	A	1.34			
*	-004 MSD		1.14			
	173802-001	A	1.08			
	-002		1.14			
	173804-001	A	1.11			
	-002		1.10			
10	173815-001		1.17			comp ABC
	-002		1.15			
	-003		1.27			
	173819-003	A	1.25			
	-004		0.96			MSS
15	-005		1.28			
	-007		1.11			
	-008		0.95			
	-009		1.11			
	-012		1.02			
20	~~-013~~ 8/4/04 -013		1.06			
	173824-001	A	1.03			
	173825-001	A	1.09			
	~~173819-010~~ VV 8/4/04					
	~~-011~~					
	173783-004		1.25		Y	comp 123

	Reagent ID or LIMS #	Initials / Date
0.5 mL of spike solution was added to all spikes	04SS171 *	8/4/04 VV
	04SS172 *	
digestion temperature (90 - 95 degrees C)	95°C	
1:1 HNO3	A070056 072604	
concentrated HNO3	A020056 JT Baker	
3mL 30% hydrogen peroxide	432287349 VWR	
concentrated HCl	A16039 JT Baker	
☒ filtered thru' Whatman # 541	E1566057	

8/4/04
Extraction Chemist / Date

Continued from page —
Continued on page —

8/05/04
Reviewed by / Date

TAL/ ICP Metals	Trace ICP MET-07	Vertical ICP MET-01	ICP-MS* MET-05
Soil MDLs (mg/Kg)	6/23/03	7/20/04	5/26/04
Antimony	0.40	1.3	0.82
Arsenic	0.12	2.8	0.082
Barium	0.039	0.098	0.20
Beryllium	0.015	0.029	0.052
Cadmium	0.019	0.14	0.011
Chromium	0.054	0.29	0.052
Cobalt	0.071	0.39	0.0035
Copper	0.033	0.11	0.097
Lead	0.050	7.9	0.0082
Molybdenum	0.045	0.43	0.0052
Nickel	0.32	0.64	0.30
Selenium	0.17	8.1	0.097
Silver	0.027	0.18	0.0032
Thallium	0.15	9.5	0.013
Vanadium	0.067	0.14	0.15
Zinc	0.13	0.17	0.056
Aluminum	1.0	1.5	0.58
Calcium	0.52	2.8	2.8
Iron	0.79	1.5	0.93
Magnesium	0.48	1.5	0.34
Manganese	0.016	0.11	0.019
Potassium	- -	18	1.1
Sodium	- -	2.8	4.2

* MDL calculation includes the 5x dilution which is standard for ICP-MS soils.

CVAA / Flame AA

Soil

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93486
Date: 08/05/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173723-022	15.4653	22.6127	21.9839	91	9
173723-023	15.4931	22.2059	21.5277	90	10
173723-024	15.5142	22.3141	21.6607	90	10
173723-026	15.4964	22.3133	21.8438	93	7
173723-027	15.3599	22.4820	21.9891	93	7
173728-001	15.2768	22.6974	22.2065	93	7
173731-001	15.2835	22.3098	21.9828	95	5
173731-002	15.2709	22.3787	21.9779	94	6
173731-003	15.4306	22.3585	21.9740	94	6
173731-004	15.4163	22.3615	21.8340	92	8
173773-001	15.3137	22.5917	22.1188	94	6
173773-002	15.3841	22.7349	22.6323	99	1
173773-003	15.2751	22.2731	22.0511	97	3
173773-004	15.3478	22.7594	22.6045	98	2
173773-005	15.5225	22.5628	22.4525	98	2
173775-001	15.2190	22.2534	20.5931	76	24
173775-002	15.4401	22.5757	20.9245	77	23
173824-001	15.0927	22.3616	22.0276	95	5
173825-001	15.6429	22.4779	22.3769	99	1
QC260176 of 173773-005	15.6529	22.3479	22.2523	99	1
			RPD:	0.1%	9.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93486
Date Started: 04-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
173723-022		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-023		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-024		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-026		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173723-027		Presidio Trust	Soil	MOISTURE	05-AUG-2004
173728-001		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-001		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-002		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-003		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173731-004		CH2M Hill Construc	Soil	MOISTURE	05-AUG-2004
173773-001		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-002		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-003		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-004		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173773-005		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173775-001		Tan Phung Associat	Soil	MOISTURE	05-AUG-2004
173775-002		Tan Phung Associat	Soil	MOISTURE	05-AUG-2004
173824-001		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
173825-001		Treadwell & Rollo	Soil	MOISTURE	05-AUG-2004
QC260176	SDUP of 173773-005		Soil	MOISTURE	

8/4/04

93486

Sample		B.C.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	141	15.4228	—	15.4226	
173728-	1	A	44	15.2768	22.4974	22.2065	
173731-	1		73	15.2835	22.3098	21.9828	
	2		34	15.2709	22.3787	21.9779	
	3		32	15.4306	22.3585	21.9740	
	4		24	15.4163	22.3615	21.8340	
173773-	1		30	15.3137	22.5917	22.1188	
	2		37	15.3841	22.7349	22.6323	
	3		31	15.2751	22.2731	22.0511	
	4		7	15.3478	22.7594	22.6045	
	5		11	15.5225	22.5628	22.4525	
DUP	5		1976	15.6529	22.3479	22.2523	
173775-	1		71	15.2190	22.2534	20.5931	
	2		34	15.4481	22.5757	20.9245	
173723-	22		39	15.4653	22.6127	21.9839	
	23		106	15.4931	22.2059	21.5277	
	24		101	15.5142	22.3141	21.6607	
	26		38	15.4964	22.3133	21.8438	
	27		008	15.3599	22.4820	21.9891	
173824-	1		SEJ	15.0927	22.3616	22.0276	
173825-	1		41	15.6429	22.4779	22.3769	

OVEN TEMP: 104°C
TIME IN: 5:20 P.M.
TIME OUT: 9:41 A.M. ON: 8/5/04

Continued on Page /

Read and Understood By

R. Manning 8/4/04 8/05/04

Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173857
Herbicides by GC/ECD

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio - Baker Beach 3

Sample ID	Lab ID
BB3EX108[0.5]	173857-001
DUP080504A	173857-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/7/04
Operations Manager

Signature: _____ Date: 8/30/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
CHLORINATED HERBICIDES (EPA 8151)

Laboratory number:	173857
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio - Baker Beach 3
Request Date:	08/05/04
Samples Received:	08/05/04

This hardcopy data package contains sample and batch QC results for two soil samples, requested for the above referenced project on 08/05/04. The samples were received cold and intact.

APCL in Chino, CA performed the analysis. Please see the APCL case narrative.

Curtis & Tompkins, Ltd

Chain of Custody

173857

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reiris
Samplers: Mike Chambers
Recorder (Signature Required): [signature]

Turnaround Time: 5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	Pesticides	PCBs	mercury	VOCs	SVOCs	pH diesel	TPH fuel oil	Chloride Acid				Silica gel clean-up	Hold	Remarks
1 BB3EX105[03]	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		
2 PO[illegible]A	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		

Sample type from end labeled with "B"
Level 4 data package

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/5/04	1415	John Kaylor	8/5	2:8
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Mark Cohen	Date 8-5-04	Time 15:30	Received by Lab: (Signature) Lavanna Cati	Date 8/5/04	Time 15:50

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Send Login to Colleen Hardin - SF Office

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☒ Private Courier (Co. Name) Ultra Ex

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002235

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173857 Date Received: 8-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 8-5-04 By (print): Tray Windsor (sign) Tray E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: wet Temperature: cold – no temp blank

B. Login Phase
Date Logged In: 8-5-04 By (print): Tray Windsor (sign) Tray E. Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Curtis & Tompkins
Attention: Steve Stanley
2323 Fifth Street
Berkeley CA 94710
Tel: (510)486-0900 Fax: (510)486-0532

Service ID #: 801-043977
Collected by:
Collected on: 08/05/04

Received: 08/06/04
Extracted: 08/09/04
Tested: 08/09-10/04
Reported: 08/25/04

Sample Description: Soil
Project Description: 173857 Presidio-Baker Beach 3

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result BB3EX108(0.5) 04-03977-1	Analysis Result EUP080504A 04-03977-2
MOISTURE, PERCENT IN SOIL	ASTM-D2216	%Moisture	0.5	0.042	4.5	3.8
CHLORINATED HERBICIDES						
Dilution Factor					1	1
2,4-D	8151A	mg/kg	0.025	9.E-4	<0.026	<0.026
2,4 DB	8151A	mg/kg	0.1	0.0029	<0.10	<0.10
DALAPON	8151A	mg/kg	0.1	0.0018	<0.10	<0.10
DICAMBA	8151A	mg/kg	0.01	3.E-4	<0.010	<0.010
DICHLOROPROP	8151A	mg/kg	0.025	4.E-4	<0.026	<0.026
DINOSEB (DNBP)	8151A	mg/kg	0.025	2.E-4	<0.026	<0.026
MCPA	8151A	mg/kg	5	4.E-5	<5.2	<5.2
MCPP	8151A	mg/kg	5	5.E-5	<5.2	<5.2
2,4,5-T	8151A	mg/kg	0.01	4.E-4	<0.010	<0.010
2,4,5-TP (SILVEX)	8151A	mg/kg	0.01	9.E-5	<0.010	<0.010

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Level D Data Package Deliverables

General Information

Project: 173857

APCL Service ID: 04-3977

Applied P & CH Laboratories
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: Presidio-Baker Beach 3/173857

For Curtis & Tompkins

APCL Service No: 04-3977

1. Sample Identification

The sample identifications are listed in the following table:

Curtis & Tompkins Sample ID	APCL Sample ID
BB3EX108(0.5)	04-03977-1
EUP080504A	04-03977-2

2. Analytical Methodology

Samples are analyzed by EPA methods

8151A (Chlorinated herbicides),
ASTM-D2216 (Moisture, percent in soil),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

RUSH

Project Number: 173857
Site: Presidio - Baker Beach 3

Subcontract Laboratory:
APCL
13760 Magnolia Ave.
Chino, CA 91710
(909) 590-1828
ATTN: Kenny Chan x163

LEVEL IV

3977

Results due: 08/12/04

Report Level: IV

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
BB3EX108[0.5]	08/05	Soil	8150	173857-001	
EUP080504A	08/05	Soil	8150	173857-002	

Notes:	Relinquished By:	Received By:
	Ricky Brown	[illegible]
	Date/Time: 8/5/04 16:15	Date/Time: 8/6/04 1000

Signature on this form constitutes a firm Purchase Order for the services requested above.
Page 1 of 1

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 3977 **Client Name/Project:** Curtis & Tompkins

1. Sample Arrival

Date/Time Received 8/6/04 1000 Date/Time Opened 8/6/04 1000 By (name): Ken Chan

Custody Transfer: ☐ Client ☑ ~~Golden State~~ California Overnite ☐ UPS ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 2
☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☑ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☐ Ice ☑ Blue Ice ☐ Dry Ice ☐ None

Temp °C 4.1 _____ _____ _____ _____ _____

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☐ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☑ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☑ RUSH TAT: 4 days ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☑ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: [signature] Printed: 6 Aug 2004 7:15 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

04-03977 (0900_ 111) (4860900_ 111)

08/06/04

Part 1: General Information

☐	Company Information	Name:	*Curtis & Tompkins*
		Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
☐	Project Information	Project Description:	*Presidio-Baker Beach 3*
		Project #:	*173857*
☐	Billing Information	P.O. #:	
		Bill Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
		Lab Project ID:	
		Client Database #:	*1*
☐	Receiving Information	Who Received Sample?	*Kenny Chan*
		Receiving Date/Time:	*08/06/04 1000*
		COC No.	
☐	Shipping Information	Shipping Company	*Express*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*4.1 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 4 working day(s)*
☐	QC Option:		*NEESA D*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	BB3EX108(0.5)		04-03977-1	S	J		125	1	G	080504	N	0	6	☐
2	EUP080504A		04-03977-2	S	J		125	1	G	080504	N	0	6	☐

Part 3: Analysis Information

Test Items:

- ☐ *8151A* Chlorinated herbicides
- ☐ *8141A* Organo-phosphorus
- ☐ *ASTM-D2216* Moisture, percent in soil
- ☐ *9040B/150.1* pH

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	HERBICIDE	ORGANO	moist	pH	
1	BB3EX108(0.5)		04-03977-1	S	X		X	X	☐
2	EUP080504A		04-03977-2	S	X		X	X	☐

☐ Client"s Requirement: **PLEASE USE CLIENTS CONTROL LIMITS**

Login By JASON M. NARIO

Check By

Level D Data Package Deliverables

Chlorinated Herbicides

Applied P & Ch Laboratory

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	173857	Collection Date:	08/09/2004
Project ID:	Presidio-Baker Beach 3	Service ID:	43977	Collected by:	
		Lab Sample ID:	04G3146-MB-01	Received Date:	08/09/2004
Sample ID:	**04G3146-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	08/09/04	Anal. Date:	08/09/04
Batch No:	04G3146	Prep. No:	1 of 1	Anal. Time:	17:33
Data File Name:	3146G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	95
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	72
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

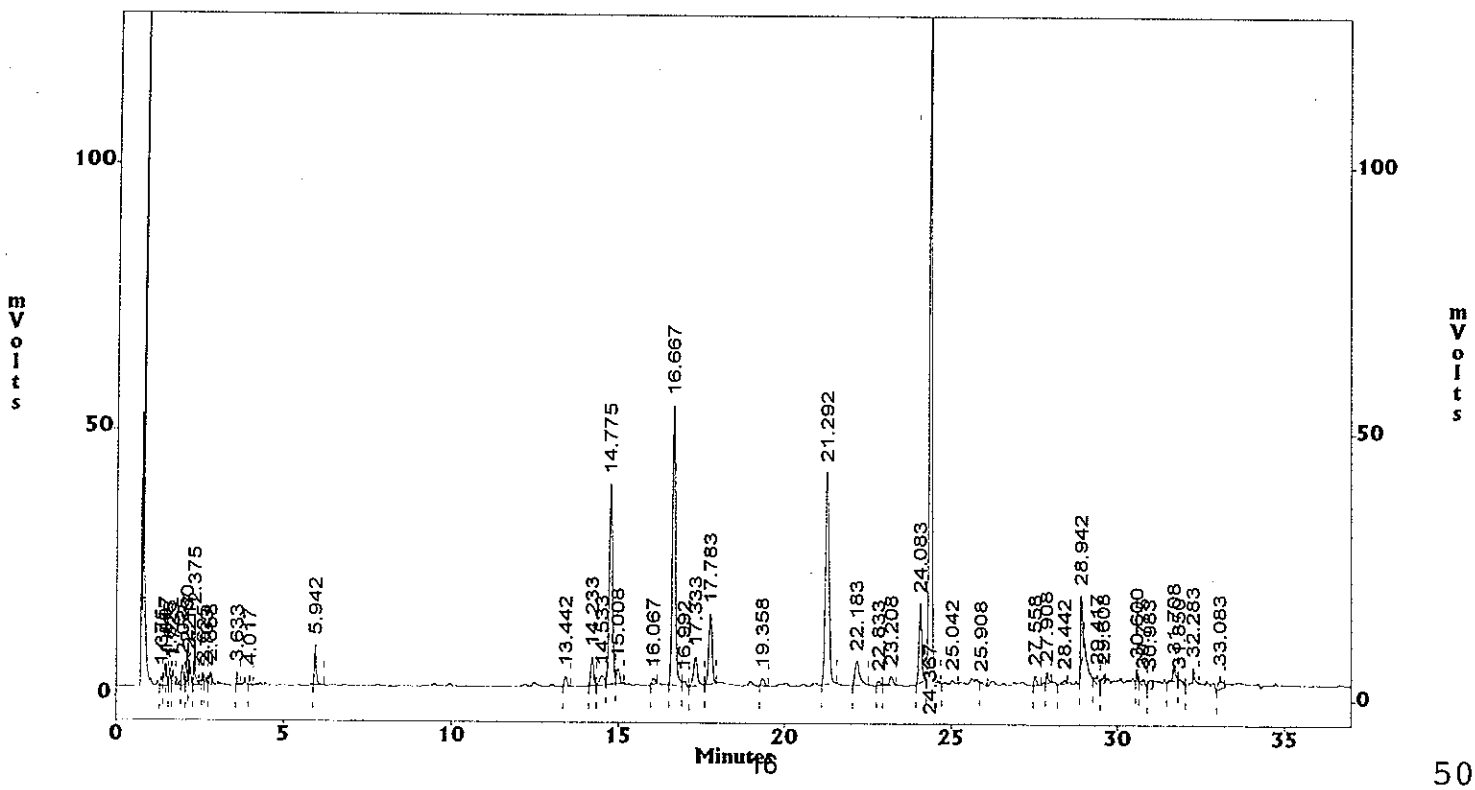
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.k01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : mb f=0.2
Acquired : Aug 09, 2004 17:33:01
Printed : Aug 10, 2004 16:44:03
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
--	1	Dalapon	1.65	0	0	0.000000	0.00
--	2	3,5-Di-Cl-Bz acid	11.72	0	0	0.000000	0.00
--	3	4-Nitrophenol	12.02	0	0	0.000000	0.00
22	4	DCAA(Surr)	16.67	352854	52520	0.073885	1891.78
--	5	Dicamba	17.13	0	0	0.000000	0.00
--	6	MCPP(ppm)	18.76	0	0	0.000000	0.00
--	7	MCPA(PPm)	19.71	0	0	0.000000	0.00
--	8	Dichloroprop	21.83	0	0	0.000000	0.00
--	9	2,4-D (m)	22.99	0	0	0.000000	0.00
32	10	DBOB (IS)	24.37	631114	124619	1.000000	250.00
--	11	Pentachlorphenol	25.28	0	0	0.000000	0.00
--	12	Silvex (m)	26.50	0	0	0.000000	0.00
--	13	Chloramben	26.70	0	0	0.000000	0.00
--	14	2,4,5-T (m)	27.22	0	0	0.000000	0.00
--	15	Dinoseb	28.37	0	0	0.000000	0.00
--	16	2,4-DB	28.52	0	0	0.000000	0.00
--	17	Bentazon	28.84	0	0	0.000000	0.00
--	18	Picloram	29.43	0	0	0.000000	0.00
--	19	DCPA	29.97	0	0	0.000000	0.00
--	20	Acifluorfen	31.69	0	0	0.000000	0.00

c:\data\2004\0408\8151t\04g3146\3146g.k01 -- Channel A

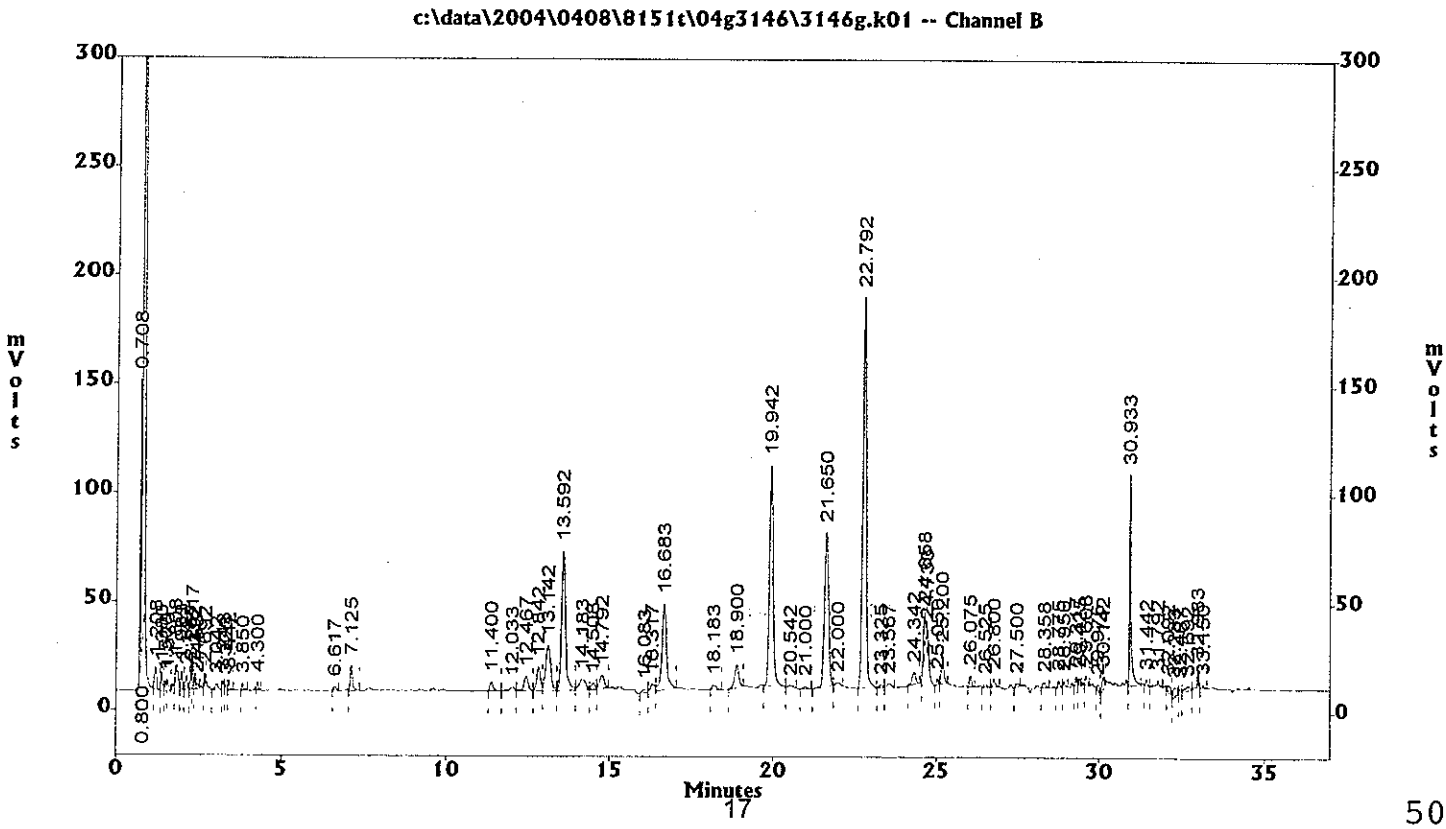


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.k01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : mb f=0.2
Acquired : Aug 09, 2004 17:33:01
Printed : Aug 10, 2004 16:44:04
User : Bao Quan Zhang

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
--	1 Dalapon	1.68	0	0	0.000000	0.00
--	2 3,5-Di-Cl-Bz acid	12.24	0	0	0.000000	0.00
--	3 4-Nitrophenol	16.19	0	0	0.000000	0.00
37	4 DCAA (surr)	19.94	812498	101312	0.085575	1762.75
--	5 Dicamba	21.23	0	0	0.000000	0.00
--	6 MCPP (ppm)	21.43	0	0	0.000000	0.00
42	7 DBOB (IS)	22.79	1346551	179907	1.000000	250.00
--	8 MCPA (ppm)	23.48	0	0	0.000000	0.00
--	9 Dichloroprop	24.62	0	0	0.000000	0.00
--	10 2,4-D (m)	26.11	0	0	0.000000	0.00
51	11 Pentachlorphenol	26.52	9834	1544	1.620643	1.13
--	12 Silvex (m)	27.83	0	0	0.000000	0.00
--	13 2,4,5-T (m)	28.88	0	0	0.000000	0.00
--	14 Dinoseb	29.05	0	0	0.000000	0.00
--	15 Chloramben	29.35	0	0	0.000000	0.00
--	16 2,4-DB	29.52	0	0	0.000000	0.00
--	17 Bentazon	30.62	0	0	0.000000	0.00
--	18 DCPA	30.69	0	0	0.000000	0.00
--	19 Picloram	31.27	0	0	0.000000	0.00
65	20 Acifluorfen	32.09	26019	3112	0.718754	6.72



Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	173857	Collection Date:	08/05/2004
Project ID:	Presidio-Baker Beach 3	Service ID:	43977	Collected by:	
		Lab Sample ID:	04-3977-1	Received Date:	08/06/2004
Sample ID:	**BB3EX108(0.5)**	Sample Matrix	Soil	Moisture %:	4.5
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	08/09/04	Anal. Date:	08/10/04
Batch No:	04G3146	Prep. No:	1 of 1	Anal. Time:	21:00
Data File Name:	3977.101	Sample Amount:	25.0 g	Dilution Factor:	1
Extract Vol.	5.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.026	<0.026	U
2	2,4 DB	94-82-6	mg/kg	0.10	<0.10	U
3	DALAPON	75-99-0	mg/kg	0.10	<0.10	U
4	DICAMBA	1918-00-9	mg/kg	0.010	<0.010	U
5	DICHLOROPROP	120-36-5	mg/kg	0.026	<0.026	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.026	<0.026	U
7	MCPA	94-74-6	mg/kg	5.2	<5.2	U
8	MCPP	93-65-2	mg/kg	5.2	<5.2	U
9	2,4,5-T	93-76-5	mg/kg	0.010	<0.010	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.010	<0.010	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	79
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	104
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

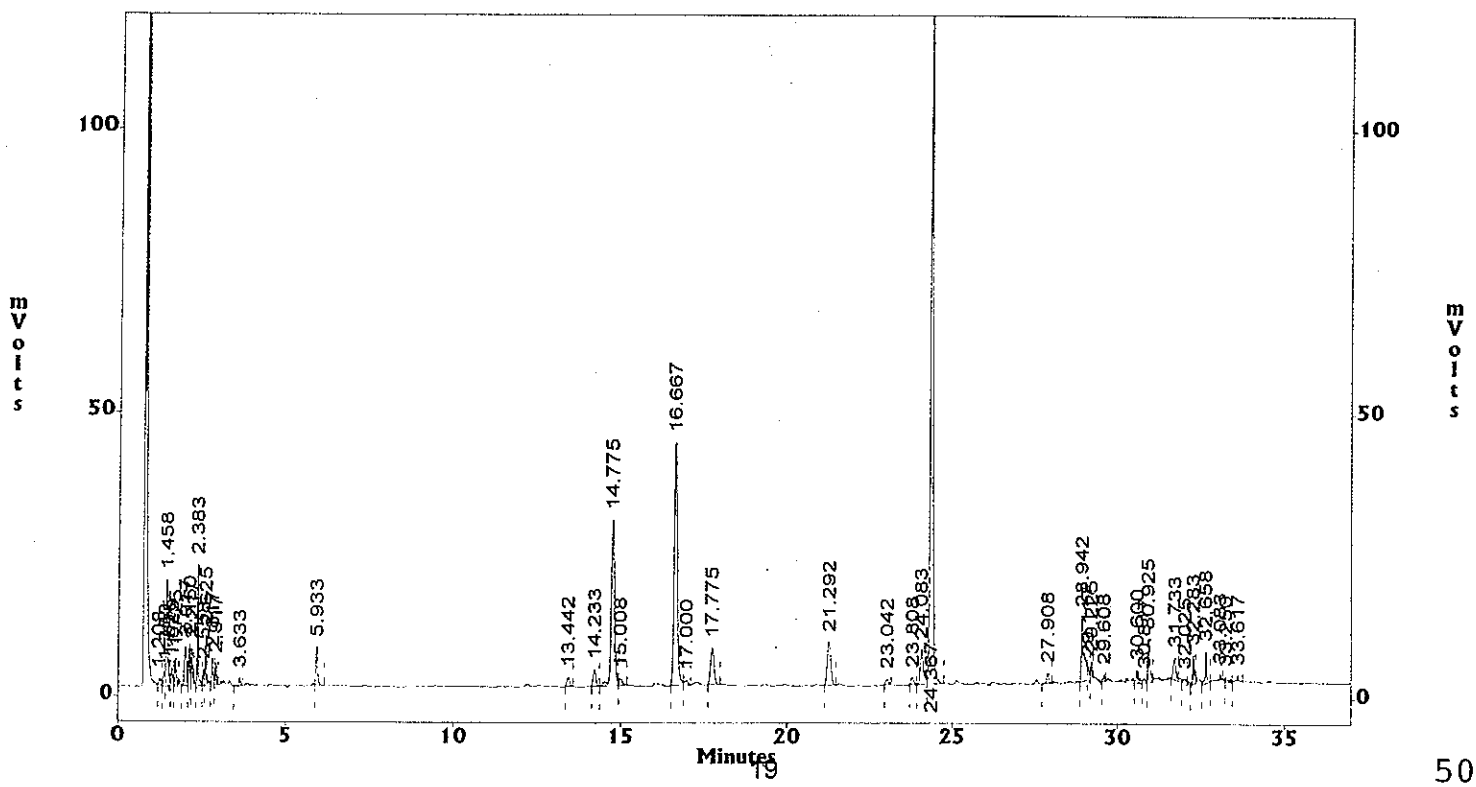
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3977.101
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 3977-1 f=0.2
Acquired : Aug 10, 2004 21:00:19
Printed : Aug 11, 2004 10:00:10
User : Bao Quan Zhang

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
-- 1	Dalapon	1.61	0	0	0.000000	0.00
-- 2	3,5-Di-Cl-Bz acid	11.70	0	0	0.000000	0.00
-- 3	4-Nitrophenol	12.06	0	0	0.000000	0.00
21 4	DCAA(Surr)	16.67	286216	42701	0.073885	1582.47
-- 5	Dicamba	17.12	0	0	0.000000	0.00
-- 6	MCPP(ppm)	18.74	0	0	0.000000	0.00
-- 7	MCPA(PPm)	19.70	0	0	0.000000	0.00
-- 8	Dichloroprop	21.82	0	0	0.000000	0.00
-- 9	2,4-D (m)	22.98	0	0	0.000000	0.00
28 10	DBOB (IS)	24.37	611985	117717	1.000000	250.00
-- 11	Pentachlorphenol	25.27	0	0	0.000000	0.00
-- 12	Silvex (m)	26.50	0	0	0.000000	0.00
-- 13	Chloramben	26.70	0	0	0.000000	0.00
-- 14	2,4,5-T (m)	27.22	0	0	0.000000	0.00
-- 15	Dinoseb	28.37	0	0	0.000000	0.00
-- 16	2,4-DB	28.52	0	0	0.000000	0.00
-- 17	Bentazon	28.84	0	0	0.000000	0.00
-- 18	Picloram	29.43	0	0	0.000000	0.00
-- 19	DCPA	29.97	0	0	0.000000	0.00
-- 20	Acifluorfen	31.69	0	0	0.000000	0.00

c:\data\2004\0408\8151t\04g3146\3977.101 -- Channel A



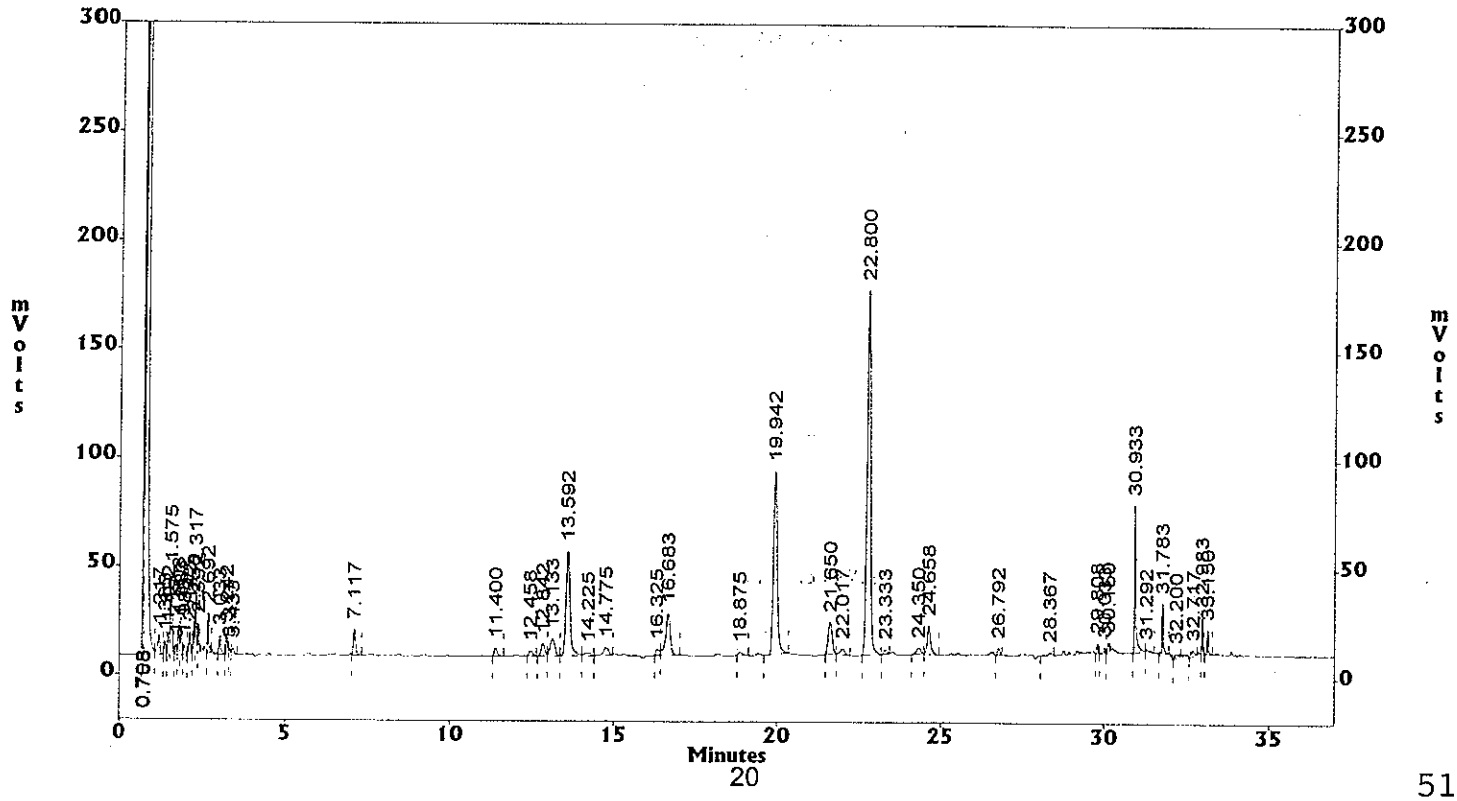
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3977.101
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 3977-1 f=0.2
Acquired : Aug 10, 2004 21:00:19
Printed : Aug 11, 2004 10:00:11
User : Bao Quan Zhang

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
-- 1	Dalapon	1.64	0	0	0.000000	0.00
-- 2	3,5-Di-Cl-Bz acid	12.23	0	0	0.000000	0.00
-- 3	4-Nitrophenol	16.20	0	0	0.000000	0.00
31 4	DCAA (surr)	19.94	678901	84102	0.085575	1576.25
-- 5	Dicamba	21.22	0	0	0.000000	0.00
-- 6	MCPP (ppm)	21.42	0	0	0.000000	0.00
34 7	DBOB (IS)	22.80	1258270	167986	1.000000	250.00
-- 8	MCPA (ppm)	23.48	0	0	0.000000	0.00
-- 9	Dichloroprop	24.62	0	0	0.000000	0.00
-- 10	2,4-D (m)	26.11	0	0	0.000000	0.00
-- 11	Pentachlorphenol	26.52	0	0	0.000000	0.00
-- 12	Silvex (m)	27.83	0	0	0.000000	0.00
-- 13	2,4,5-T (m)	28.88	0	0	0.000000	0.00
-- 14	Dinoseb	29.05	0	0	0.000000	0.00
-- 15	Chloramben	29.35	0	0	0.000000	0.00
-- 16	2,4-DB	29.52	0	0	0.000000	0.00
-- 17	Bentazon	30.62	0	0	0.000000	0.00
-- 18	DCPA	30.69	0	0	0.000000	0.00
-- 19	Picloram	31.27	0	0	0.000000	0.00
-- 20	Acifluorfen	32.09	0	0	0.000000	0.00

c:\data\2004\0408\8151t\04g3146\3977.101 -- Channel B



Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	173857	Collection Date:	08/05/2004
Project ID:	Presidio-Baker Beach 3	Service ID:	43977	Collected by:	
		Lab Sample ID:	04-3977-2	Received Date:	08/06/2004
Sample ID:	**EUP080504A**	Sample Matrix	Soil	Moisture %:	3.8
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	08/09/04	Anal. Date:	08/10/04
Batch No:	04G3146	Prep. No:	1 of 1	Anal. Time:	21:41
Data File Name:	3977.102	Sample Amount:	25.0 g	Dilution Factor:	1
Extract Vol.	5.0 mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.026	<0.026	U
2	2,4 DB	94-82-6	mg/kg	0.10	<0.10	U
3	DALAPON	75-99-0	mg/kg	0.10	<0.10	U
4	DICAMBA	1918-00-9	mg/kg	0.010	<0.010	U
5	DICHLOROPROP	120-36-5	mg/kg	0.026	<0.026	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.026	<0.026	U
7	MCPA	94-74-6	mg/kg	5.2	<5.2	U
8	MCPP	93-65-2	mg/kg	5.2	<5.2	U
9	2,4,5-T	93-76-5	mg/kg	0.010	<0.010	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.010	<0.010	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	68
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	96
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

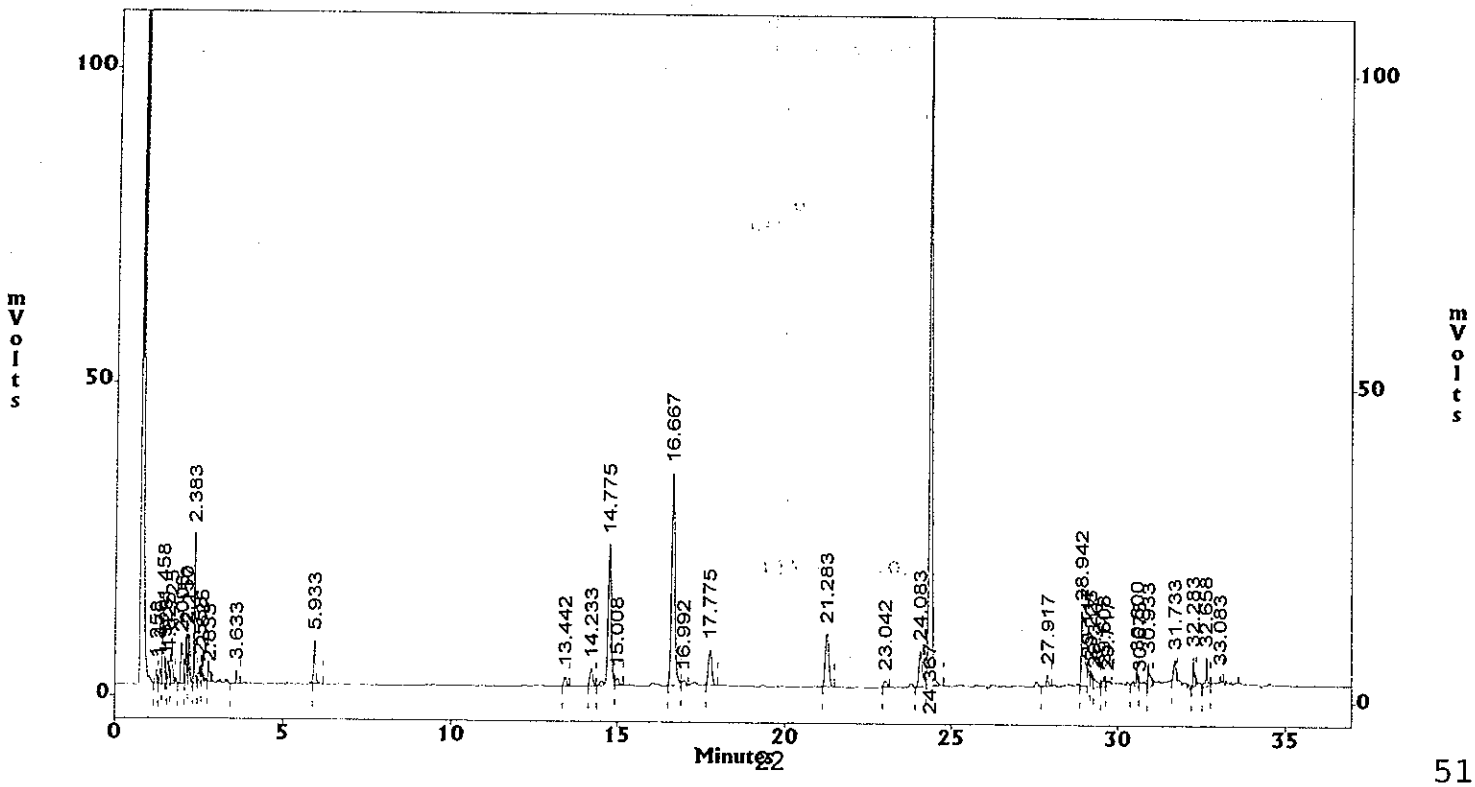
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3977.102
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 3977-2 f=0.2
Acquired : Aug 10, 2004 21:41:08
Printed : Aug 11, 2004 10:00:27
User : Bao Quan Zhang

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
-- 1	Dalapon	1.61	0	0	0.000000	0.00
-- 2	3,5-Di-Cl-Bz acid	11.70	0	0	0.000000	0.00
-- 3	4-Nitrophenol	12.06	0	0	0.000000	0.00
20 4	DCAA(Surr)	16.67	227328	33838	0.073885	1368.50
-- 5	Dicamba	17.12	0	0	0.000000	0.00
-- 6	MCPP(ppm)	18.74	0	0	0.000000	0.00
-- 7	MCPA(PPm)	19.70	0	0	0.000000	0.00
-- 8	Dichloroprop	21.82	0	0	0.000000	0.00
-- 9	2,4-D (m)	22.98	0	0	0.000000	0.00
26 10	DBOB (IS)	24.37	562069	106704	1.000000	250.00
-- 11	Pentachlorphenol	25.27	0	0	0.000000	0.00
-- 12	Silvex (m)	26.50	0	0	0.000000	0.00
-- 13	Chloramben	26.70	0	0	0.000000	0.00
-- 14	2,4,5-T (m)	27.22	0	0	0.000000	0.00
-- 15	Dinoseb	28.37	0	0	0.000000	0.00
-- 16	2,4-DB	28.52	0	0	0.000000	0.00
-- 17	Bentazon	28.84	0	0	0.000000	0.00
-- 18	Picloram	29.43	0	0	0.000000	0.00
-- 19	DCPA	29.97	0	0	0.000000	0.00
-- 20	Acifluorfen	31.69	0	0	0.000000	0.00

c:\data\2004\0408\8151t\04g3146\3977.102 -- Channel A

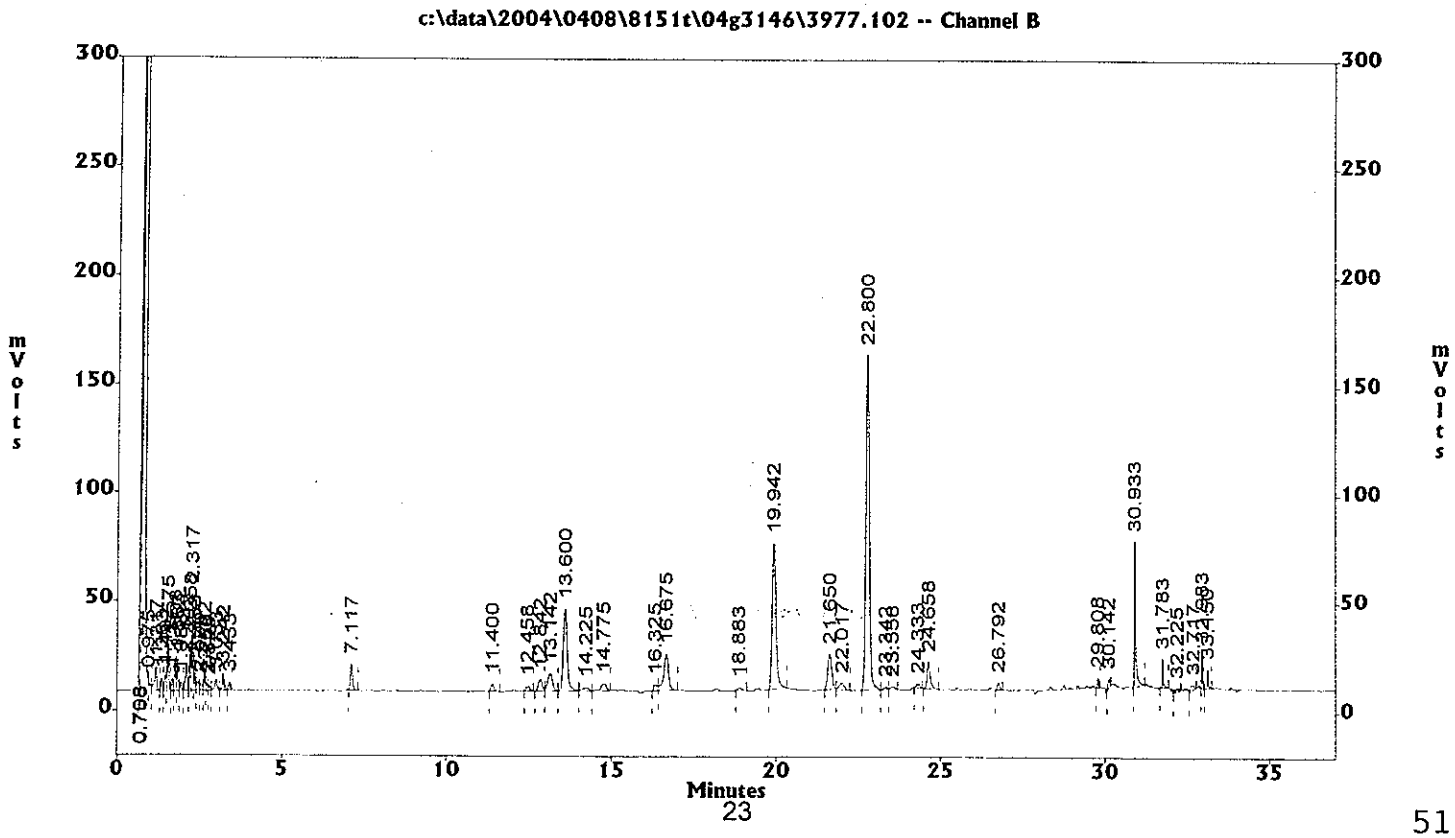


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3977.102
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 3977-2 f=0.2
Acquired : Aug 10, 2004 21:41:08
Printed : Aug 11, 2004 10:00:28
User : Bao Quan Zhang

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
--	1 Dalapon	1.64	0	0	0.000000	0.00
--	2 3,5-Di-Cl-Bz acid	12.23	0	0	0.000000	0.00
--	3 4-Nitrophenol	16.20	0	0	0.000000	0.00
35	4 DCAA (surr)	19.94	541323	66965	0.085575	1363.37
--	5 Dicamba	21.22	0	0	0.000000	0.00
--	6 MCPP (ppm)	21.42	0	0	0.000000	0.00
38	7 DBOB (IS)	22.80	1159932	154186	1.000000	250.00
--	8 MCPA (ppm)	23.48	0	0	0.000000	0.00
--	9 Dichloroprop	24.62	0	0	0.000000	0.00
--	10 2,4-D (m)	26.11	0	0	0.000000	0.00
--	11 Pentachlorphenol	26.52	0	0	0.000000	0.00
--	12 Silvex (m)	27.83	0	0	0.000000	0.00
--	13 2,4,5-T (m)	28.88	0	0	0.000000	0.00
--	14 Dinoseb	29.05	0	0	0.000000	0.00
--	15 Chloramben	29.35	0	0	0.000000	0.00
--	16 2,4-DB	29.52	0	0	0.000000	0.00
--	17 Bentazon	30.62	0	0	0.000000	0.00
--	18 DCPA	30.69	0	0	0.000000	0.00
--	19 Picloram	31.27	0	0	0.000000	0.00
--	20 Acifluorfen	32.09	0	0	0.000000	0.00



FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	043977
Project ID:	Presidio-Baker Beach 3	Project No:	173857	Sample Matrix:	Soil
		Batch No:	04G3146		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G3146-MB-01	04G3146-MB-01	95	0
2	04G3146-LCS-01	04G3146-LCS-01	91	0
3	04G3146-LSD-01	04G3146-LSD-01	90	0
4	BB3EX108(0.5)	04-3977-1	79	0
5	EUP080504A	04-3977-2	68	0
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	43977
Project ID:	Presidio-Baker Beach 3	Project No:	173857	Sample Matrix:	Soil
		Batch No:	04G3146		
LCS Filename:	3146G.L01	Date Analyzed:	080904	Time Analyzed:	18:54
LCSD Filename:	3146G.J01	Date Analyzed:	080904	Time Analyzed:	19:35

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0524	105	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0510	102	65-135
2,4,5-T	mg/kg	0.050	0	0.0462	92	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0454	91	14	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0517	103	1	35	65-135
2,4,5-T	mg/kg	0.050	0.0425	85	8	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

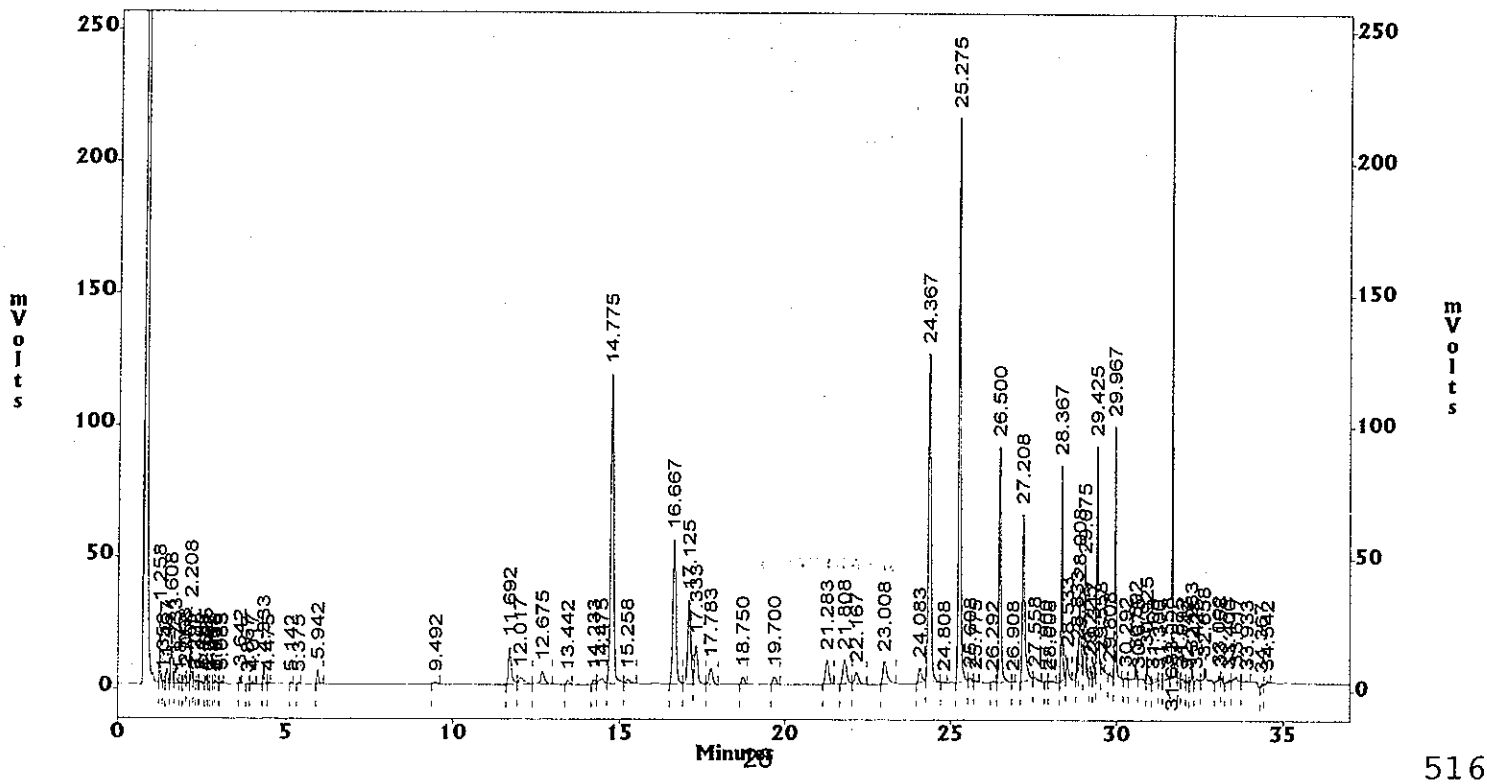
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.101
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcs f=0.2
Acquired : Aug 09, 2004 18:54:37
Printed : Aug 10, 2004 16:52:41
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
4	1	Dalapon	1.61	75915	24067	0.129749	218.86
28	2	3,5-Di-Cl-Bz acid	11.69	87134	14069	0.125046	260.65
29	3	4-Nitrophenol	12.02	29706	2489	0.070732	157.10
36	4	DCAA(Surr)	16.67	357407	54904	0.073885	1809.48
37	5	Dicamba	17.13	206241	31797	0.353447	218.27
40	6	MCPP(ppm)	18.75	16883	2721	0.179235	35.23
41	7	MCPA(PPm)	19.70	18341	2799	0.343572	19.97
43	8	Dichloroprop	21.81	70500	9098	0.099712	264.48
45	9	2,4-D (m)	23.01	70870	8382	0.101099	262.22
47	10	DBOB (IS)	24.37	668332	124300	1.000000	250.00
49	11	Pentachlorphenol	25.27	953081	214357	1.555308	229.22
53	12	Silvex (m)	26.50	380862	89515	0.558710	254.99
54	13	Chloramben	26.91	1022	317	0.444269	0.86
55	14	2,4,5-T (m)	27.21	330692	63621	0.534963	231.23
59	15	Dinoseb	28.37	254343	81825	0.419514	226.79
60	16	2,4-DB	28.53	30641	8096	0.056452	203.04
61	17	Bentazon	28.83	14962	7618	0.079392	70.50
66	18	Picloram	29.42	259274	86082	0.745522	130.09
69	19	DCPA	29.97	251376	95566	0.763057	123.23
77	20	Acifluorfen	31.68	451233	252066	0.710861	237.45

c:\data\2004\0408\8151t\04g3146\3146g.101 -- Channel A

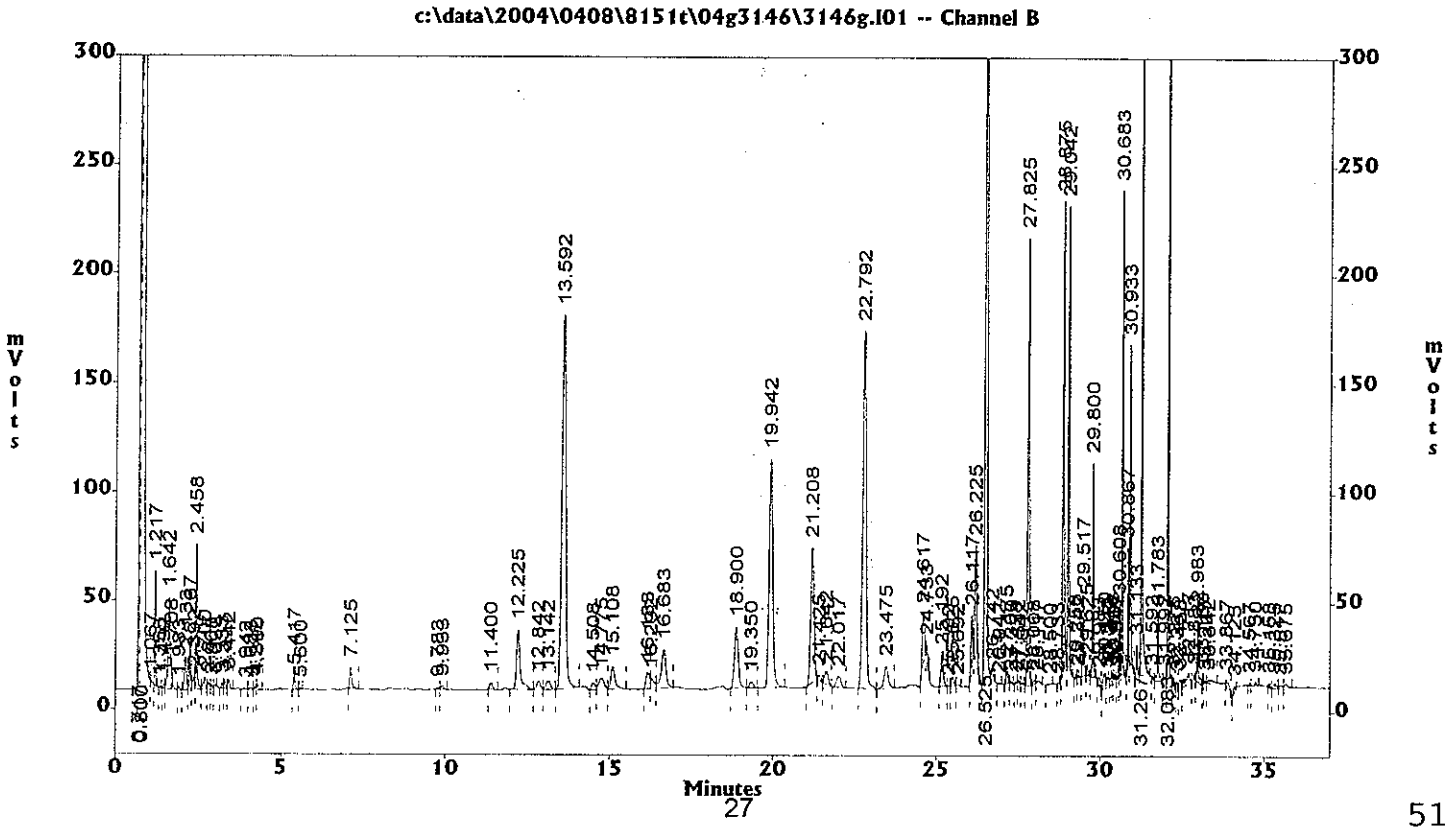


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.101
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcs f=0.2
Acquired : Aug 09, 2004 18:54:37
Printed : Aug 10, 2004 16:52:41
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
8	1	Dalapon	1.71	22905	10674	0.159073	29.81
31	2	3,5-Di-Cl-Bz acid	12.23	210507	27434	0.140157	310.95
38	3	4-Nitrophenol	16.18	55188	7493	0.073447	155.56
43	4	DCAA (surr)	19.94	823339	105344	0.085575	1991.90
44	5	Dicamba	21.21	457846	62164	0.377820	250.88
45	6	MCPP (ppm)	21.42	13775	2470	0.224210	12.72
48	7	DBOB (IS)	22.79	1207540	164156	1.000000	250.00
49	8	MCPA (ppm)	23.48	97262	10490	0.438923	45.88
50	9	Dichloroprop	24.62	114568	23720	0.112632	210.59
56	10	2,4-D (m)	26.12	76124	21863	0.105689	149.12
58	11	Pentachlorphenol	26.52	1893413	459083	1.620643	241.88
66	12	Silvex (m)	27.83	746290	205512	0.623829	247.67
71	13	2,4,5-T (m)	28.88	657907	217352	0.541272	251.64
72	14	Dinoseb	29.04	544737	211672	0.496953	226.94
74	15	Chloramben	29.34	1550	811	0.484770	0.66
75	16	2,4-DB	29.52	107928	35976	0.064394	347.00
85	17	Bentazon	30.61	58914	32745	0.068965	176.86
86	18	DCPA	30.68	407756	222243	0.782016	107.95
90	19	Picloram	31.27	774291	363226	0.820557	195.36
94	20	Acifluorfen	32.08	808525	448181	0.718754	232.89



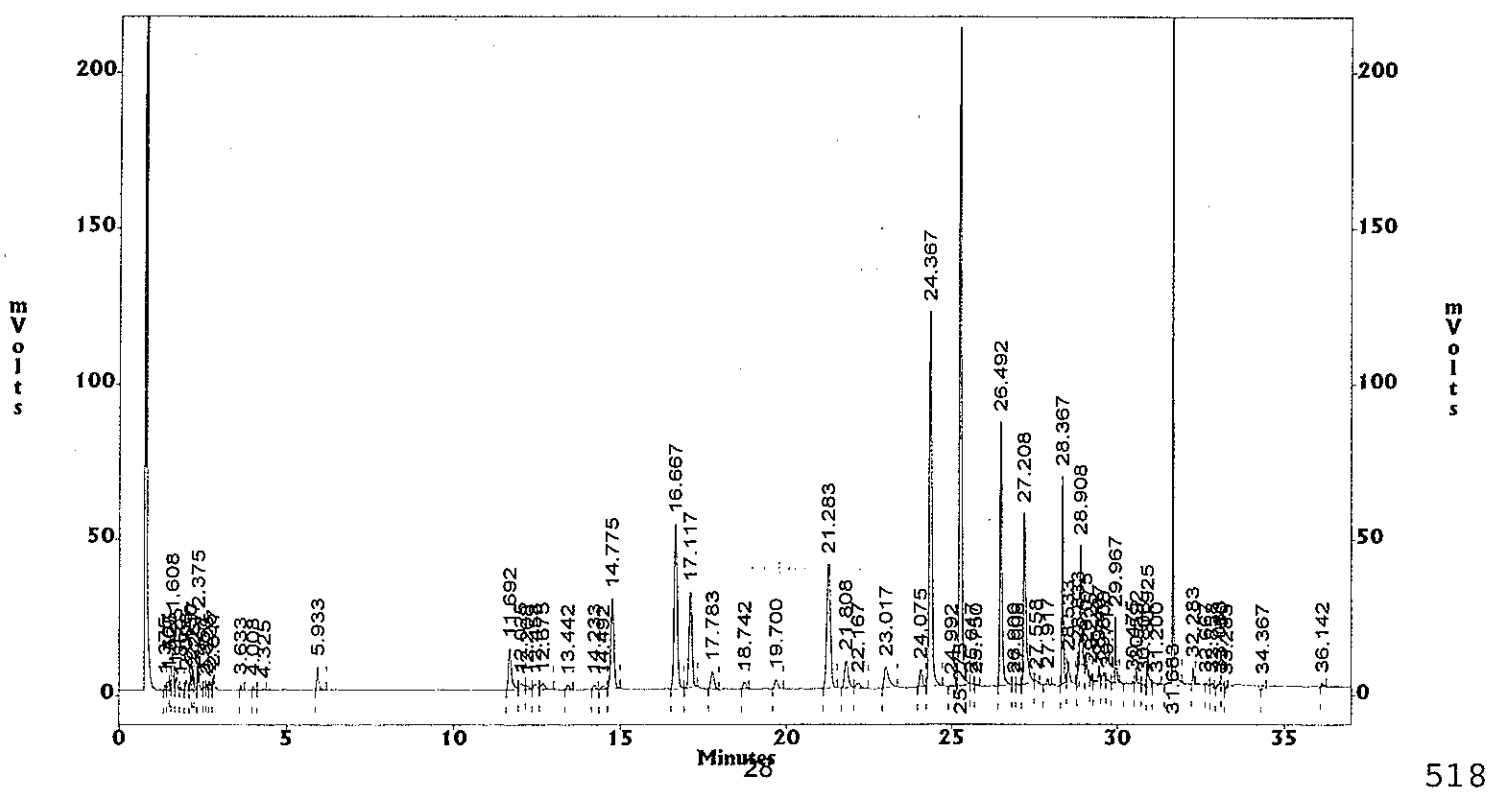
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.j01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcsd f=0.2
Acquired : Aug 09, 2004 19:35:23
Printed : Aug 10, 2004 16:53:44
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
4	1	Dalapon	1.61	64561	22062	0.129749	190.76
20	2	3,5-Di-Cl-Bz acid	11.69	84434	13191	0.125046	258.86
21	3	4-Nitrophenol	12.02	18572	1914	0.070732	100.66
29	4	DCAA(Surr)	16.67	347694	52831	0.073885	1804.10
30	5	Dicamba	17.12	190742	30499	0.353447	206.89
32	6	MCPP(ppm)	18.74	12663	2074	0.179235	27.09
33	7	MCPA(PPm)	19.70	19124	2835	0.343572	21.34
35	8	Dichloroprop	21.81	67374	8643	0.099712	259.04
37	9	2,4-D (m)	23.02	59813	6793	0.101099	226.81
39	10	DBOB (IS)	24.37	652107	120705	1.000000	250.00
41	11	Pentachlorphenol	25.27	972663	211666	1.555308	239.75
44	12	Silvex (m)	26.49	376575	84996	0.558710	258.40
45	13	Chloramben	26.90	1266	354	0.444269	1.09
47	14	2,4,5-T (m)	27.21	296337	55168	0.534963	212.37
50	15	Dinoseb	28.37	214338	66879	0.419514	195.87
51	16	2,4-DB	28.53	27300	6654	0.056452	185.40
52	17	Bentazon	28.83	11180	6012	0.079392	53.99
56	18	Picloram	29.47	15207	5183	0.745522	7.82
59	19	DCPA	29.97	54313	21161	0.763057	27.29
65	20	Acifluorfen	31.68	417251	214250	0.710861	225.03

c:\data\2004\0408\8151t\04g3146\3146g.j01 -- Channel A

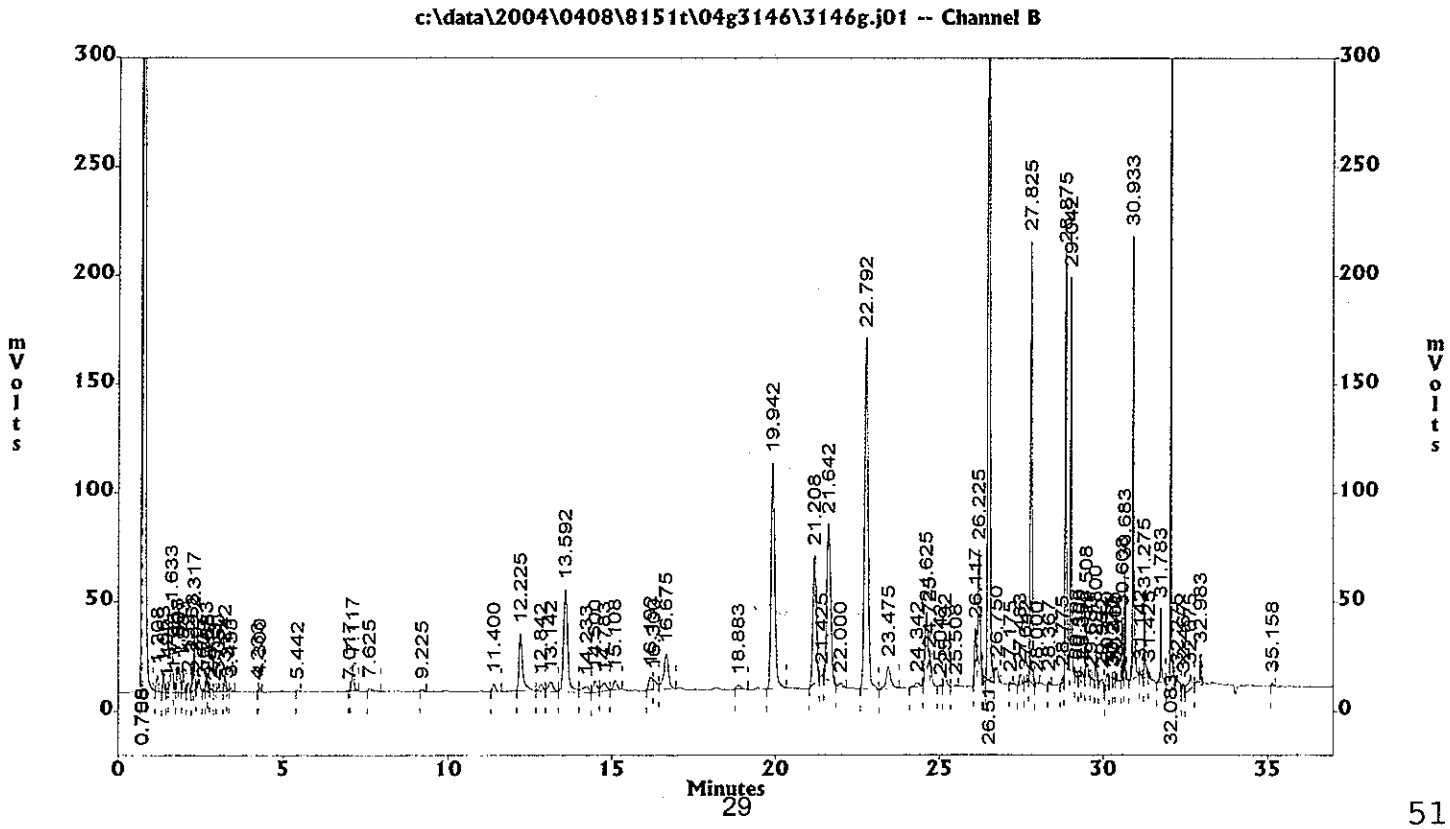


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.j01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcsd f=0.2
Acquired : Aug 09, 2004 19:35:23
Printed : Aug 10, 2004 16:53:45
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
7	1	Dalapon	1.71	14076	5188	0.159073	18.59
32	2	3,5-Di-Cl-Bz acid	12.23	201470	26007	0.140157	301.93
40	3	4-Nitrophenol	16.19	42017	5743	0.073447	120.16
44	4	DCAA (surr)	19.94	811685	103622	0.085575	1992.27
45	5	Dicamba	21.21	426539	58514	0.377820	237.13
46	6	MCPP (ppm)	21.42	6469	1547	0.224210	6.06
49	7	DBOB (IS)	22.79	1190232	161815	1.000000	250.00
50	8	MCPA (ppm)	23.48	101866	10120	0.438923	48.75
52	9	Dichloroprop	24.63	148918	26960	0.112632	277.71
57	10	2,4-D (m)	26.12	55570	16733	0.105689	110.44
59	11	Pentachlorphenol	26.52	1920934	465140	1.620643	248.96
64	12	Silvex (m)	27.83	728202	203081	0.623829	245.19
68	13	2,4,5-T (m)	28.88	594614	194279	0.541272	230.74
69	14	Dinoseb	29.04	465024	179274	0.496953	196.55
72	15	Chloramben	29.39	7124	2534	0.484770	3.09
73	16	2,4-DB	29.51	64589	23626	0.064394	210.68
81	17	Bentazon	30.61	52736	28666	0.068965	160.62
82	18	DCPA	30.68	91077	50150	0.782016	24.46
85	19	Picloram	31.27	95265	36180	0.820557	24.39
88	20	Acifluorfen	32.08	866734	465310	0.718754	253.29



FORM-4B

Applied P & CH Laboratories

Method Blank Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	43977
Project ID:	Presidio-Baker Beach 3	Project No:	173857	Analysis Date:	08/09/04
		Sample Matrix:	Soil	Analysis Time:	17:33
Sample ID:	**04G3146-MB-01**	Batch No:	04G3146	Instrument ID:	GC: T
Lab Sample ID:	04G3146-MB-01	Data File Name:	3146G.K01	GC Column:	DB-608
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	04G3146-LCS-01	04G3146-LCS-01	Lab Control Spike	3146G.L01	08/09/04	18:54
2	04G3146-LSD-01	04G3146-LSD-01	Lab Control Spike Duplicate	3146G.J01	08/09/04	19:35
3	BB3EX108(0.5)	04-3977-1	Field Sample	3977.101	08/10/04	21:00
4	EUP080504A	04-3977-2	Field Sample	3977.102	08/10/04	21:41
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

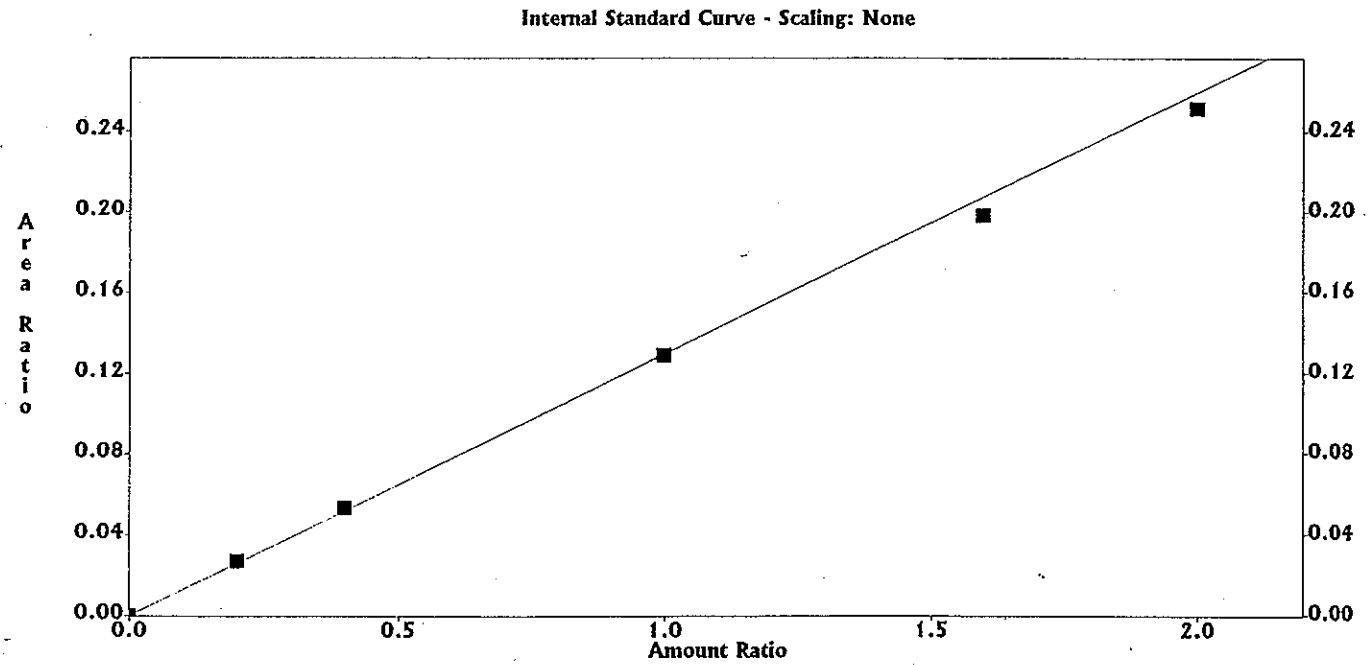
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 1 Dalapon

ıl	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0271	0.2	0.1355	0.0271							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1294	1	0.1294	0.1294							0
4	0.1985	1.6	0.124	0.1985							0
5	0.2517	2	0.1259	0.2517							0

Calib Flag: Replace

Average RF: 0.129749
RF StdDev: 0.00496077
RF %RSD: 3.823

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.129749



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

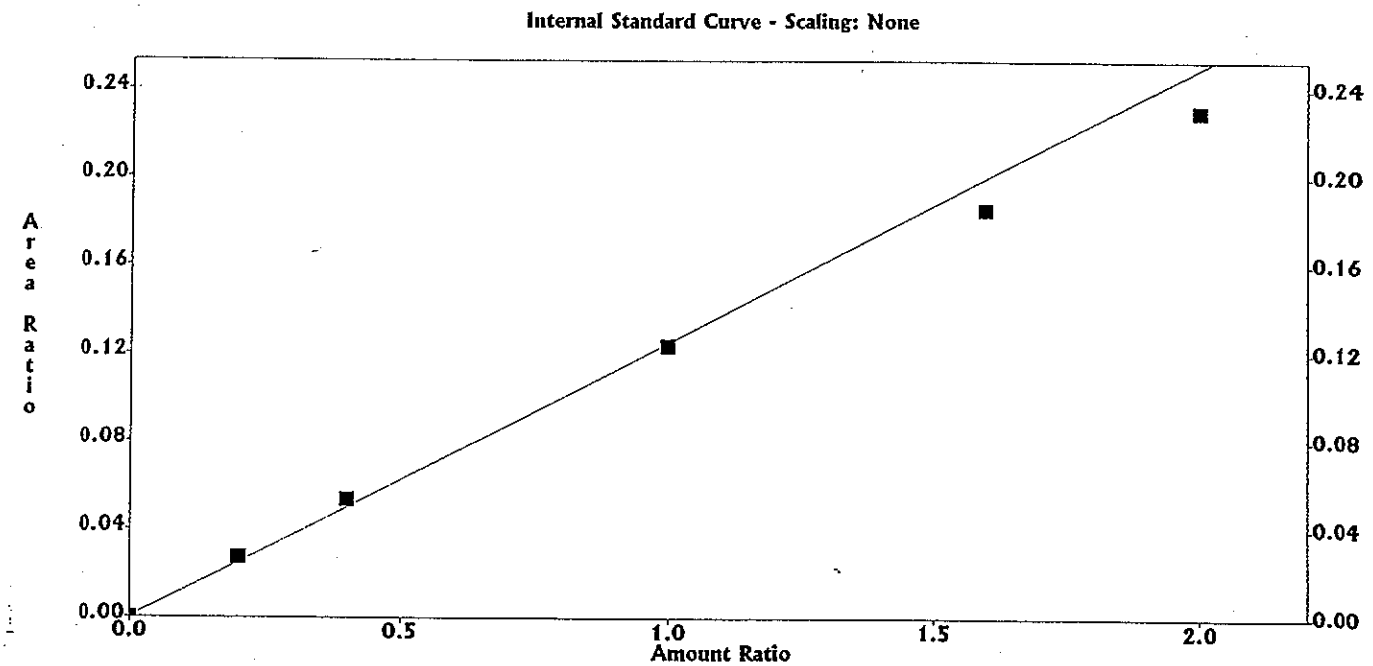
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0273	0.2	0.1364	0.0273							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1236	1	0.1236	0.1236							0
4	0.1858	1.6	0.1161	0.1858							0
5	0.2304	2	0.1152	0.2304							0

Calib Flag: Replace

Average RF: 0.125046
RF StdDev: 0.0098334
RF %RSD: 7.864

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.125046



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 3 4-Nitrophenol

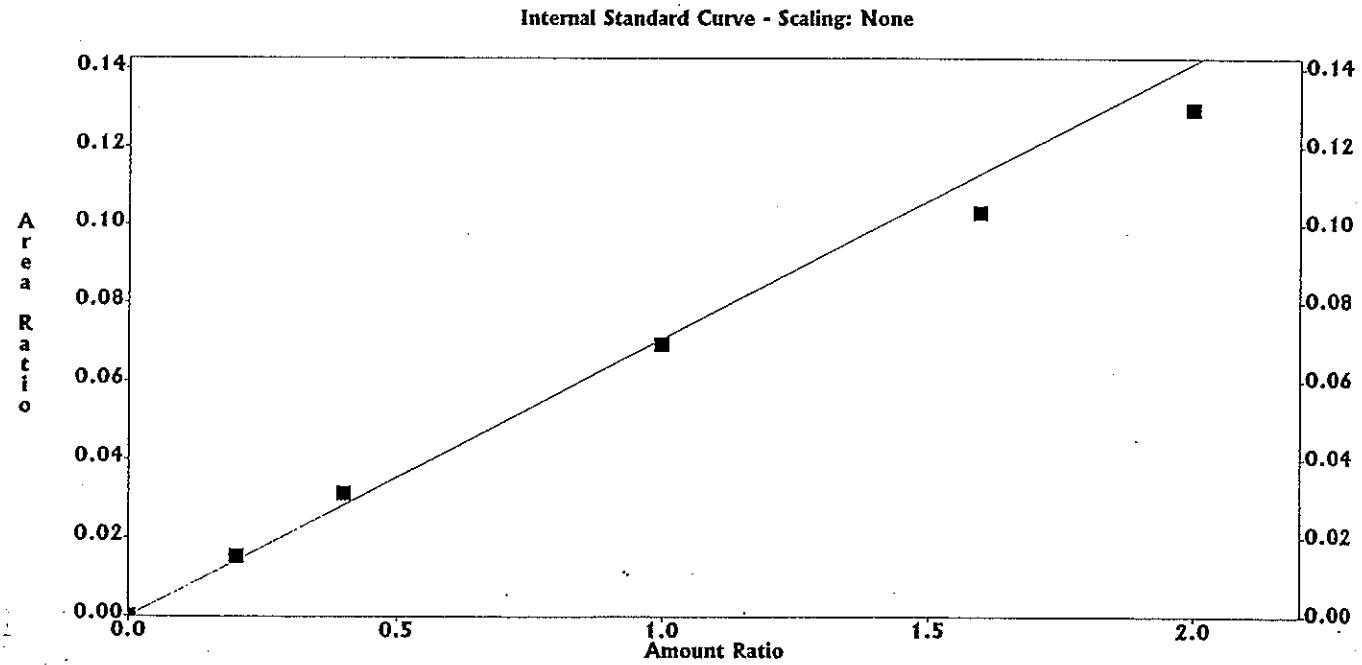
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0153	0.2	0.07642	0.0153							0
2	0.0314	0.4	0.07839	0.0314							0
3	0.0695	1	0.06947	0.0695							0
4	0.1032	1.6	0.06452	0.1032							0
5	0.1297	2	0.06487	0.1297							0

Calib Flag: Replace

Average RF: 0.0707316
RF StdDev: 0.00643509
RF %RSD: 9.098

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0707316



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 4 DCAA(Surr)

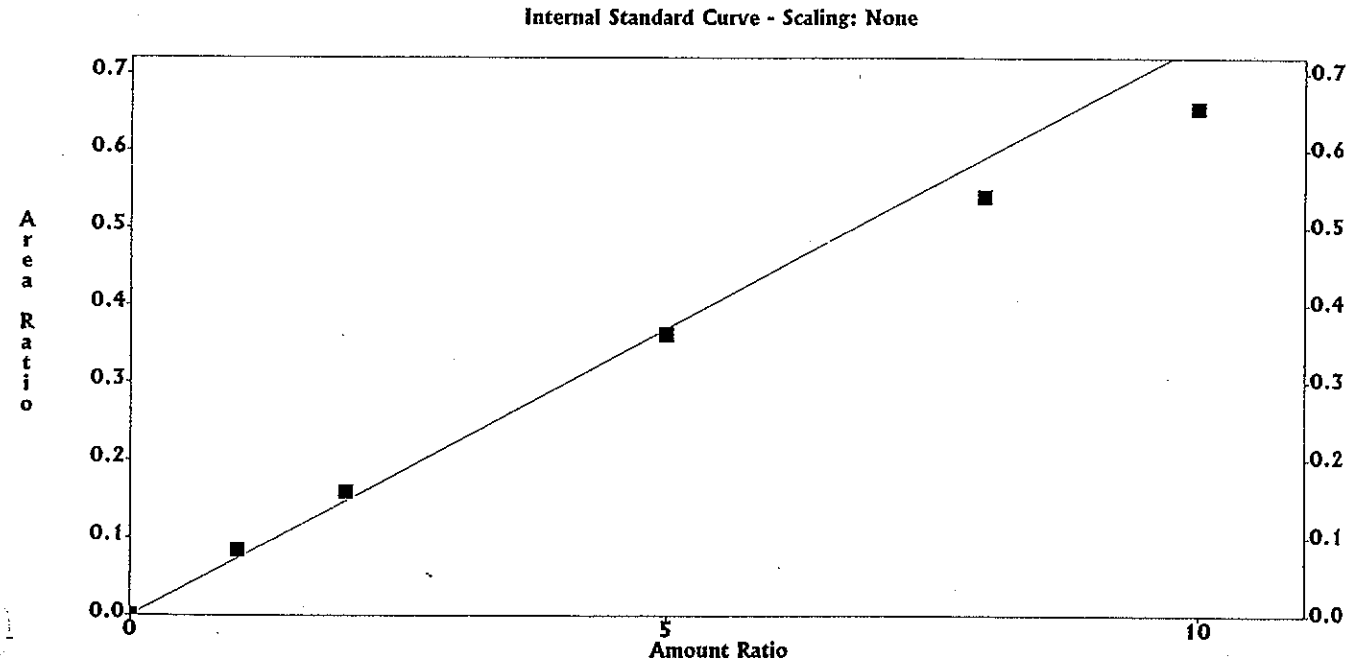
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0843	1	0.08426	0.0843							0
2	0.1594	2	0.07968	0.1594							0
3	0.3617	5	0.07235	0.3617							0
4	0.5408	8	0.06759	0.5408							0
5	0.6554	10	0.06554	0.6554							0

Calib Flag: Replace

Average RF: 0.0738852
RF StdDev: 0.0079487
RF %RSD: 10.758

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0738852



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 5 Dicamba

* - Replicate Not Used

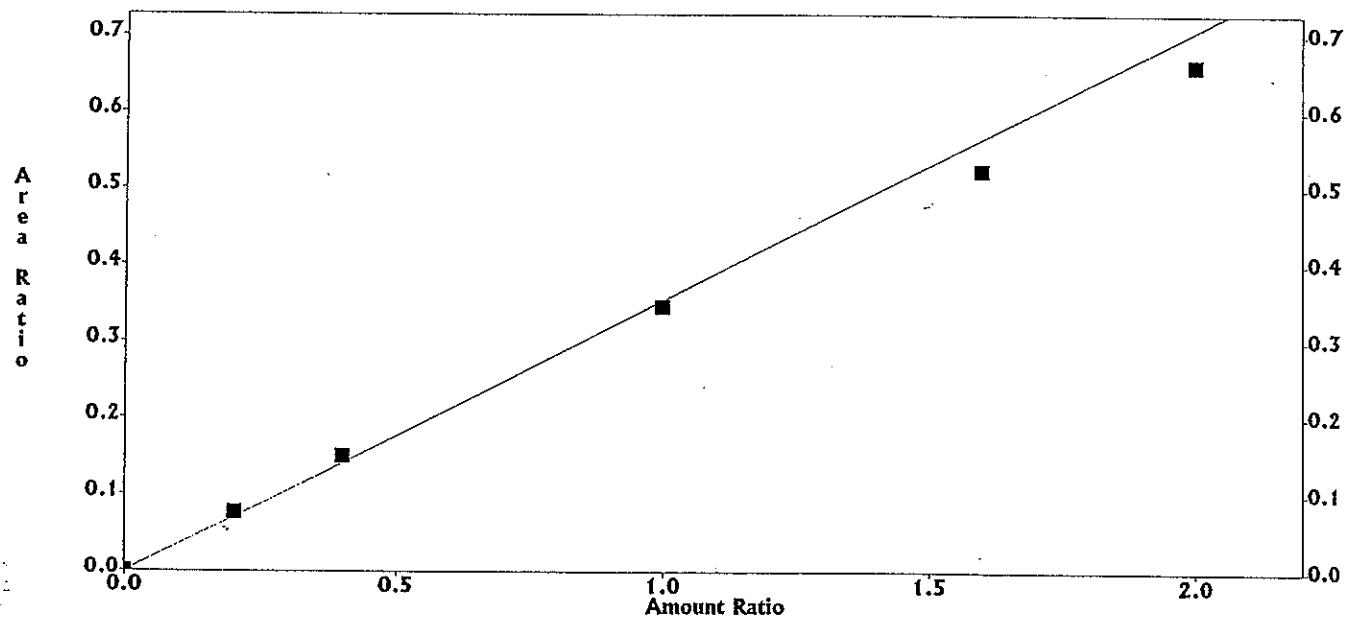
.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0773	0.2	0.3866	0.0773							0
2	0.1507	0.4	0.3767	0.1507							0
3	0.3455	1	0.3455	0.3455							0
4	0.5239	1.6	0.3275	0.5239							0
5	0.6620	2	0.331	0.6620							0

Calib Flag: Replace

Average RF: 0.353447
RF StdDev: 0.0268465
RF %RSD: 7.596

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.353447

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 6 MCPP(ppm)

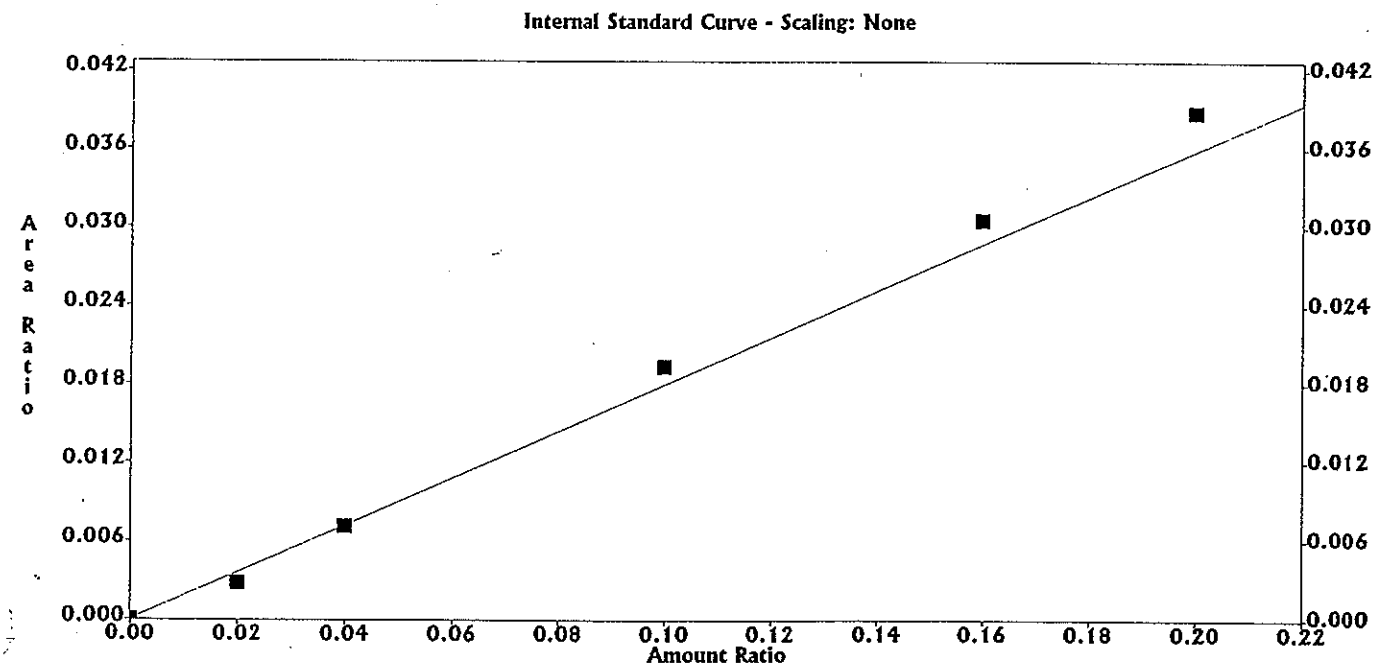
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0028	0.02	0.14	0.0028							0
2	0.0071	0.04	0.1782	0.0071							0
3	0.0193	0.1	0.1933	0.0193							0
4	0.0305	0.16	0.1908	0.0305							0
5	0.0388	0.2	0.194	0.0388							0

Calib Flag: Replace

Average RF: 0.179235
RF StdDev: 0.0228742
RF %RSD: 12.762

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.179235



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 7 MCPA(PPm)

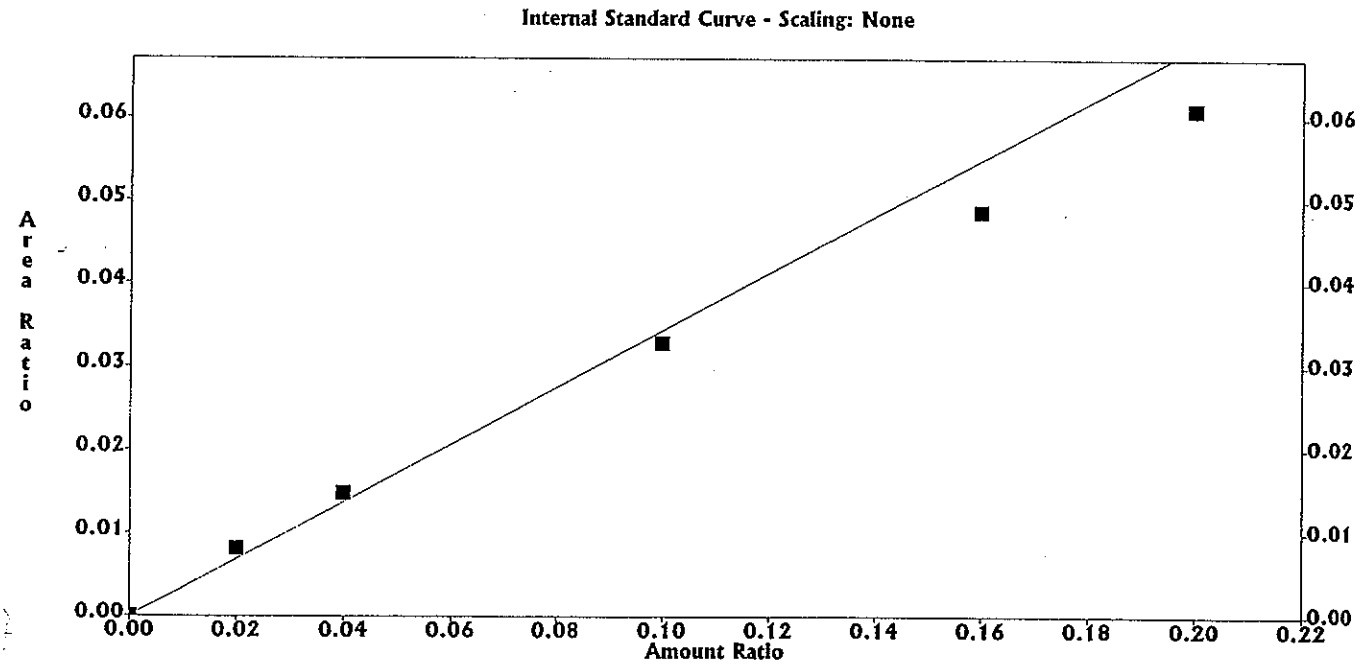
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0082	0.02	0.4079	0.0082							0
2	0.0149	0.04	0.3713	0.0149							0
3	0.0329	0.1	0.3285	0.0329							0
4	0.0487	0.16	0.3047	0.0487							0
5	0.0611	0.2	0.3054	0.0611							0

Calib Flag: Replace

Average RF: 0.343572
RF StdDev: 0.0450119
RF %RSD: 13.101

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.343572



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 8 Dichloroprop

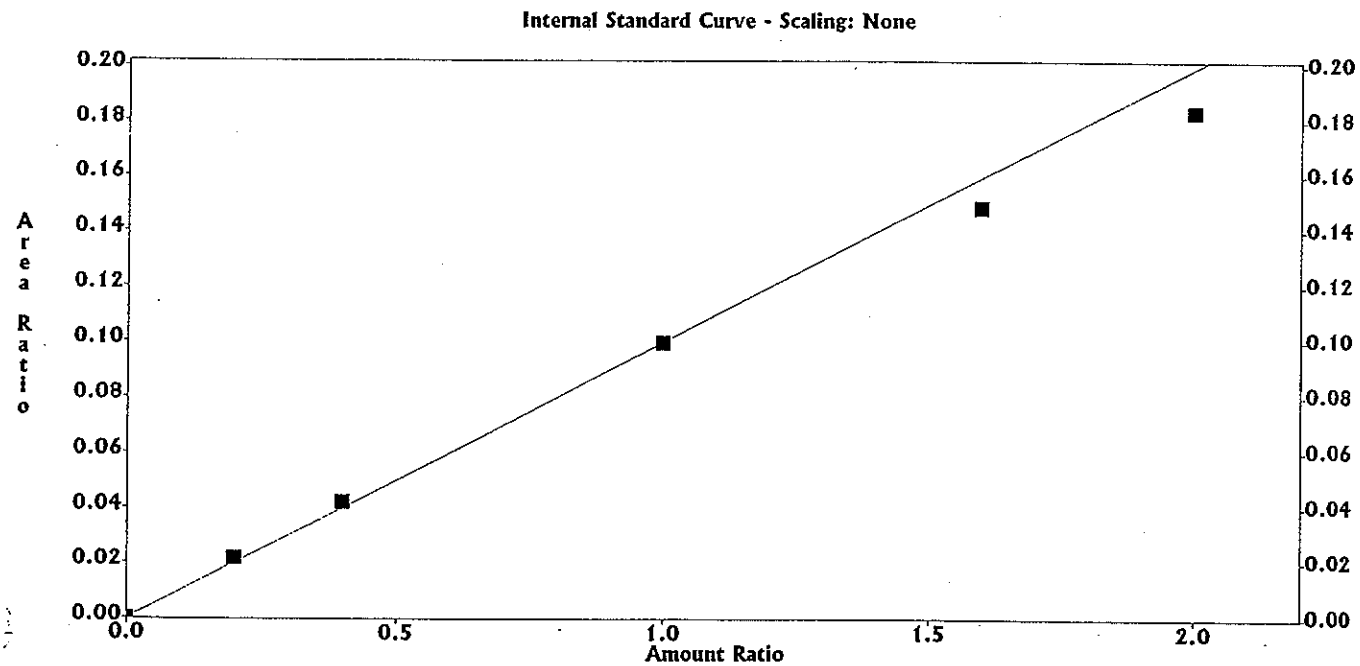
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0218	0.2	0.109	0.0218							0
2	0.0422	0.4	0.1054	0.0422							0
3	0.0996	1	0.09957	0.0996							0
4	0.1485	1.6	0.09284	0.1485							0
5	0.1836	2	0.0918	0.1836							0

Calib Flag: Replace

Average RF: 0.0997123
RF StdDev: 0.00754369
RF %RSD: 7.565

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0997123



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 9 2,4-D (m)

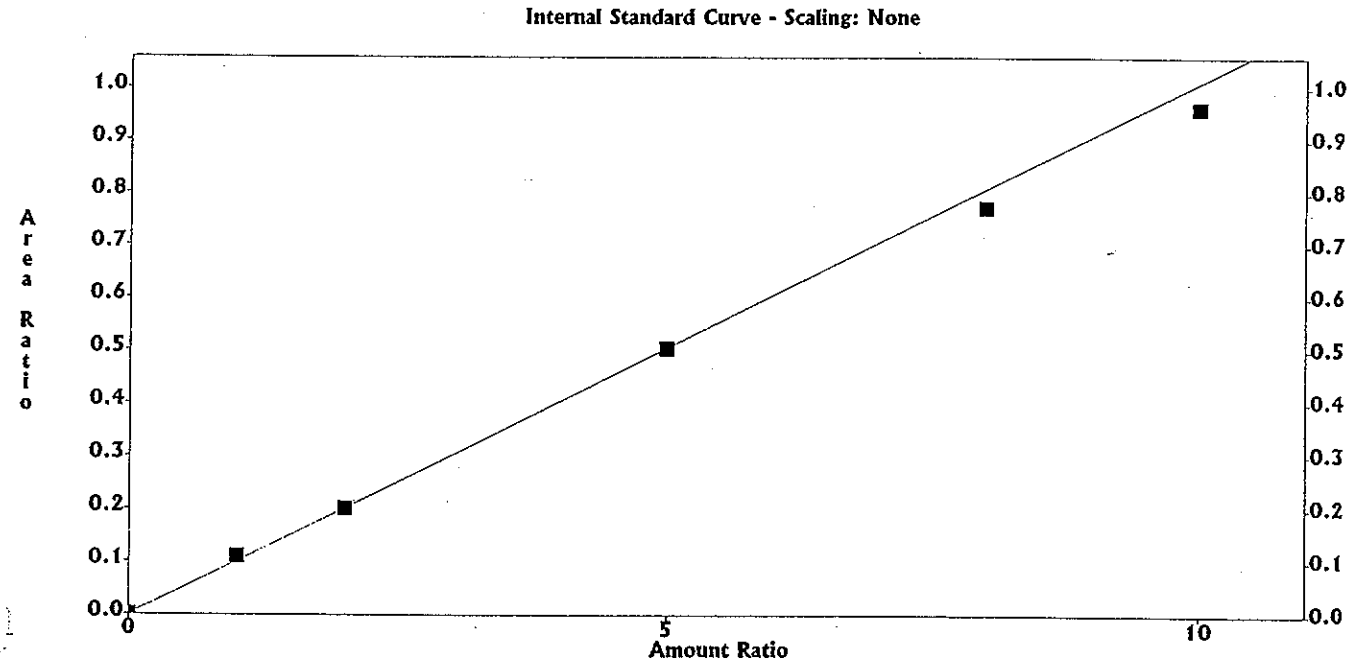
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1108	1	0.1108	0.1108							0
2	0.2020	2	0.101	0.2020							0
3	0.5042	5	0.1008	0.5042							0
4	0.7725	8	0.09656	0.7725							0
5	0.9628	10	0.09628	0.9628							0

Calib Flag: Replace

Average RF: 0.101099
RF StdDev: 0.00587927
RF %RSD: 5.815

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.101099



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 10 DBOB (IS)

* - Replicate Not Used

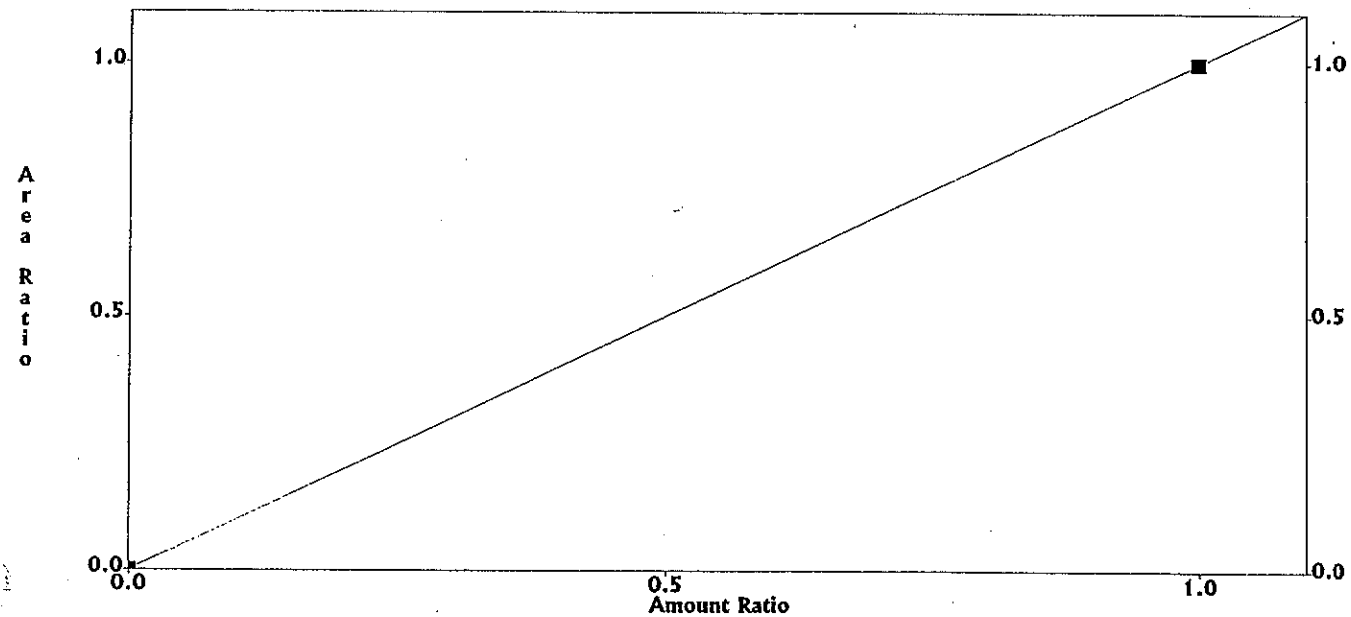
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 11 Pentachlorphenol

* - Replicate Not Used

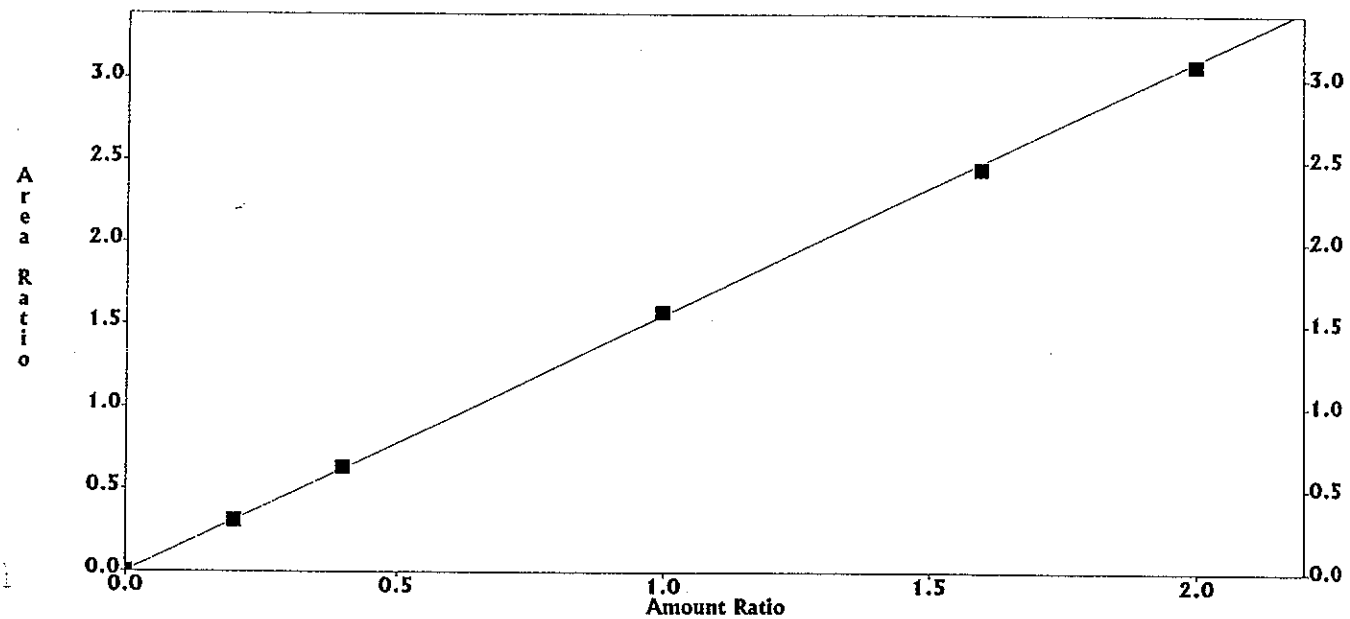
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3088	0.2	1.54	0.3088							0
2	0.6332	0.4	1.58	0.6332							0
3	1.5752	1	1.58	1.5752							0
4	2.4502	1.6	1.53	2.4502							0
5	3.0858	2	1.54	3.0858							0

Calib Flag: Replace

Average RF: 1.55531
RF StdDev: 0.0224793
RF %RSD: 1.445

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.55531

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 12 Silvex (m)

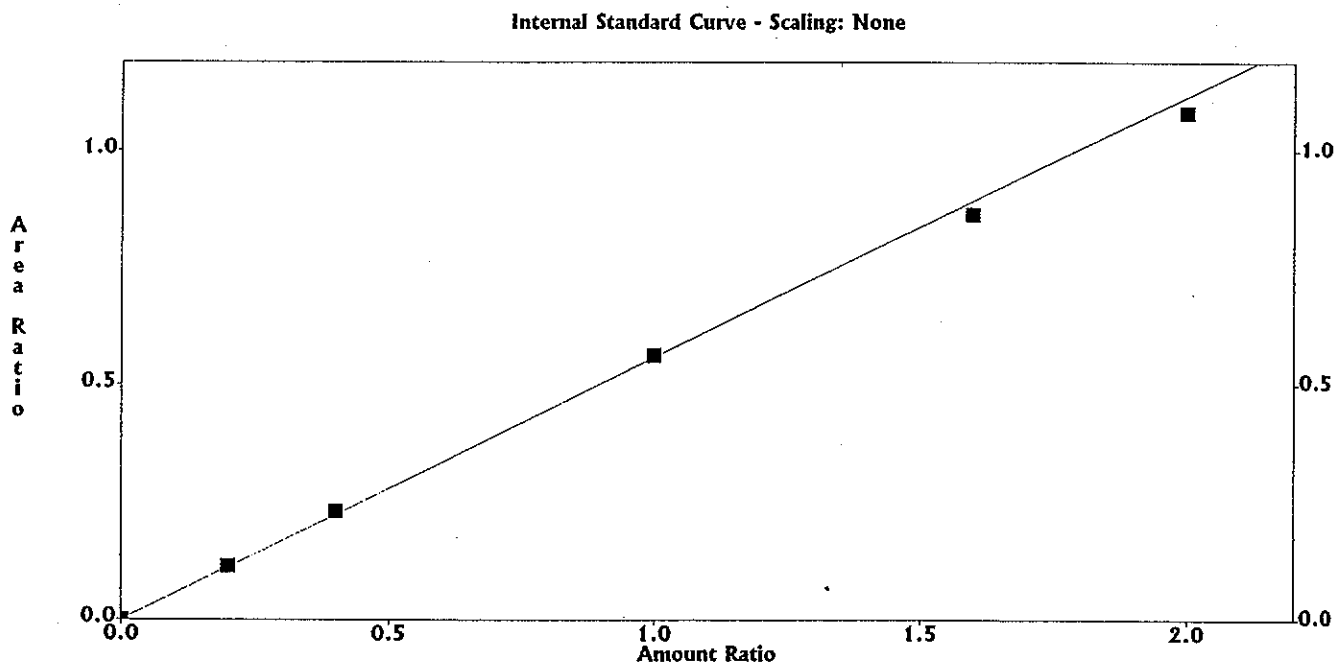
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1141	0.2	0.5705	0.1141							0
2	0.2311	0.4	0.5777	0.2311							0
3	0.5630	1	0.563	0.5630							0
4	0.8651	1.6	0.5407	0.8651							0
5	1.0833	2	0.5416	1.0833							0

Calib Flag: Replace

Average RF: 0.55871
RF StdDev: 0.016838
RF %RSD: 3.014

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.55871



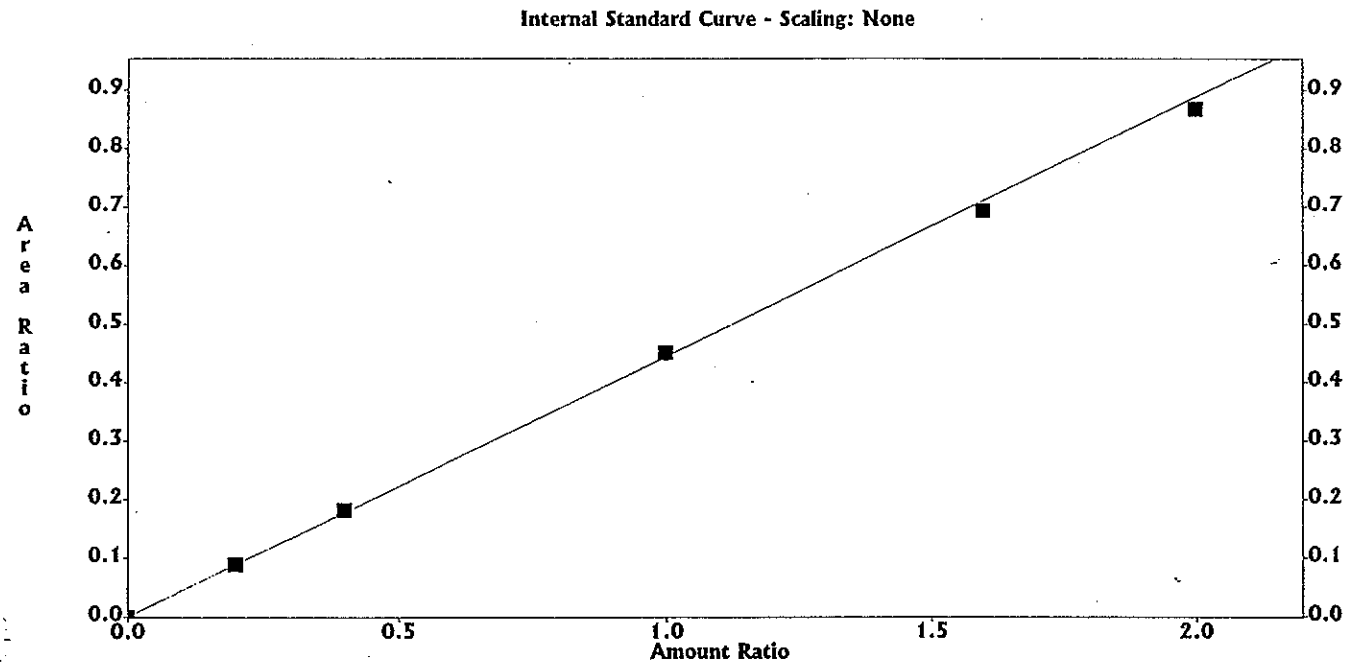
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 13 Chloramben

	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0891	0.2	0.4455	0.0891							0
2	0.1827	0.4	0.4568	0.1827							0
3	0.4514	1	0.4514	0.4514							0
4	0.6939	1.6	0.4337	0.6939							0
5	0.8681	2	0.434	0.8681							0

Calib Flag: Replace

Average RF: 0.444269
RF StdDev: 0.0103107
RF %RSD: 2.321

RF Definition: Area / Amount
Average RF fit: Amount = Area / 0.444269



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 14 2,4,5-T (m)

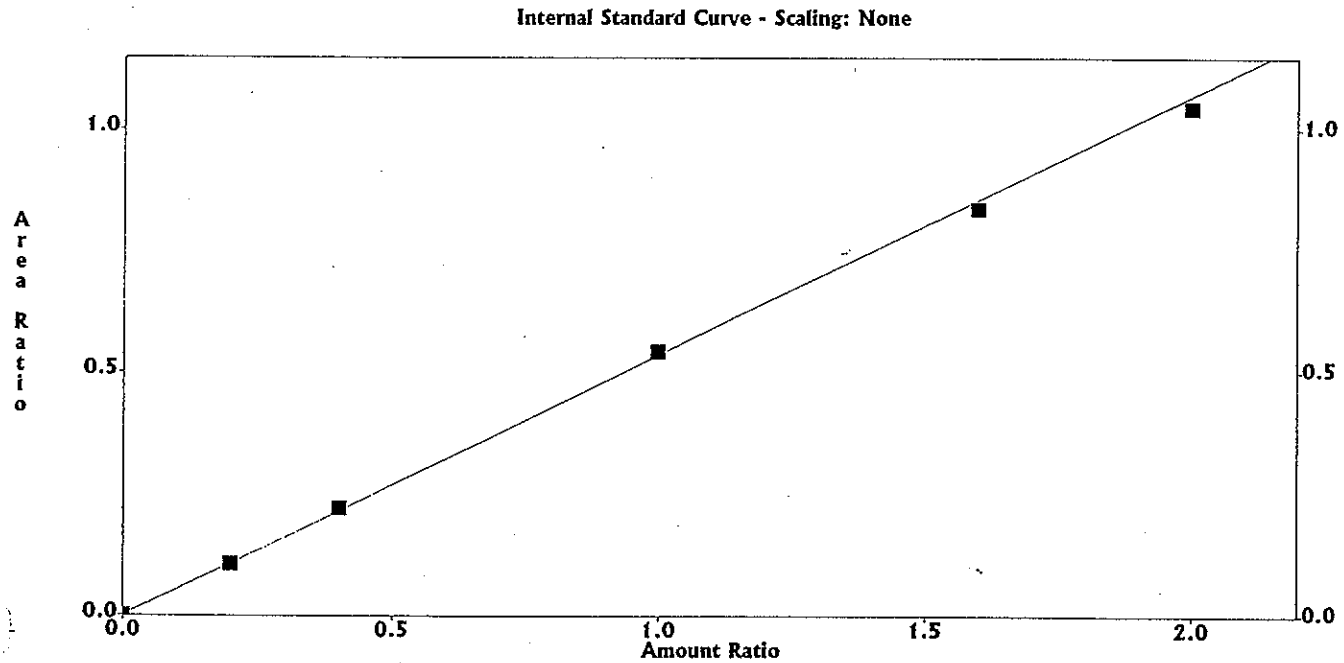
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1070	0.2	0.5352	0.1070							0
2	0.2206	0.4	0.5514	0.2206							0
3	0.5426	1	0.5426	0.5426							0
4	0.8372	1.6	0.5232	0.8372							0
5	1.0448	2	0.5224	1.0448							0

Calib Flag: Replace

Average RF: 0.534963
RF StdDev: 0.0124948
RF %RSD: 2.336

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.534963



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 15 Dinoseb

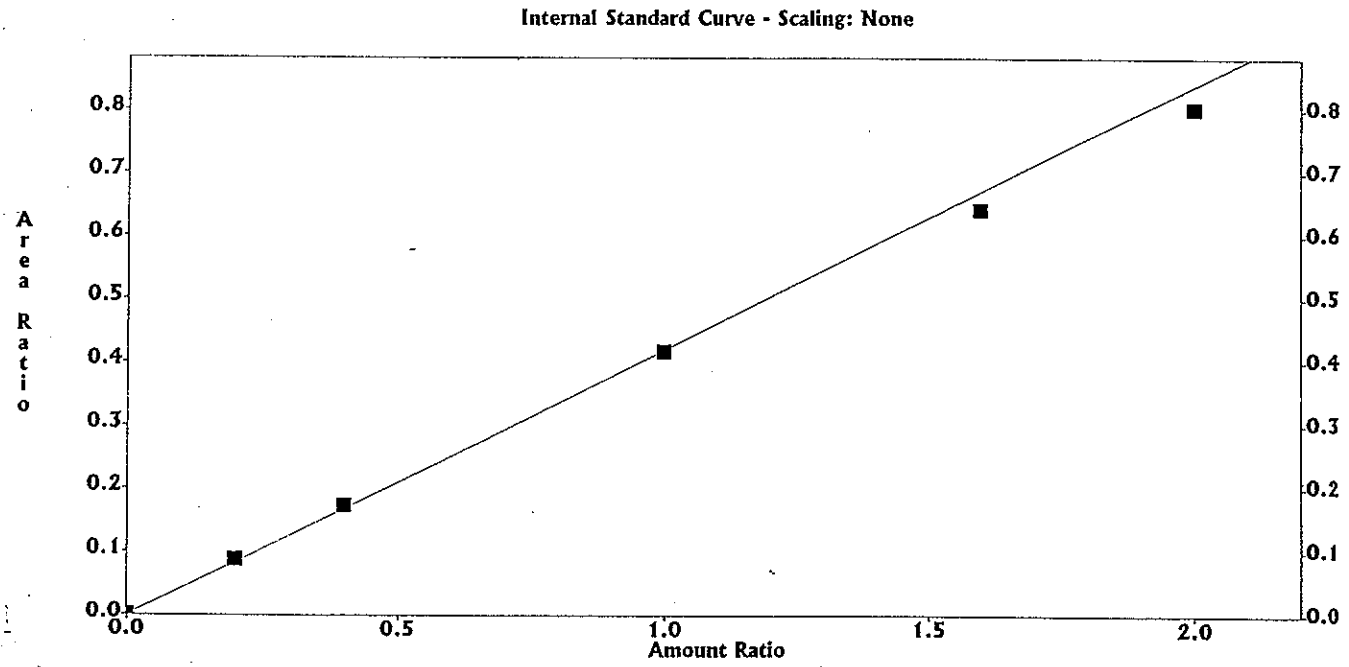
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0886	0.2	0.443	0.0886							0
2	0.1736	0.4	0.4341	0.1736							0
3	0.4173	1	0.4173	0.4173							0
4	0.6426	1.6	0.4016	0.6426							0
5	0.8032	2	0.4016	0.8032							0

Calib Flag: Replace

Average RF: 0.419514
RF StdDev: 0.018767
RF %RSD: 4.474

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.419514



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 16 2,4-DB

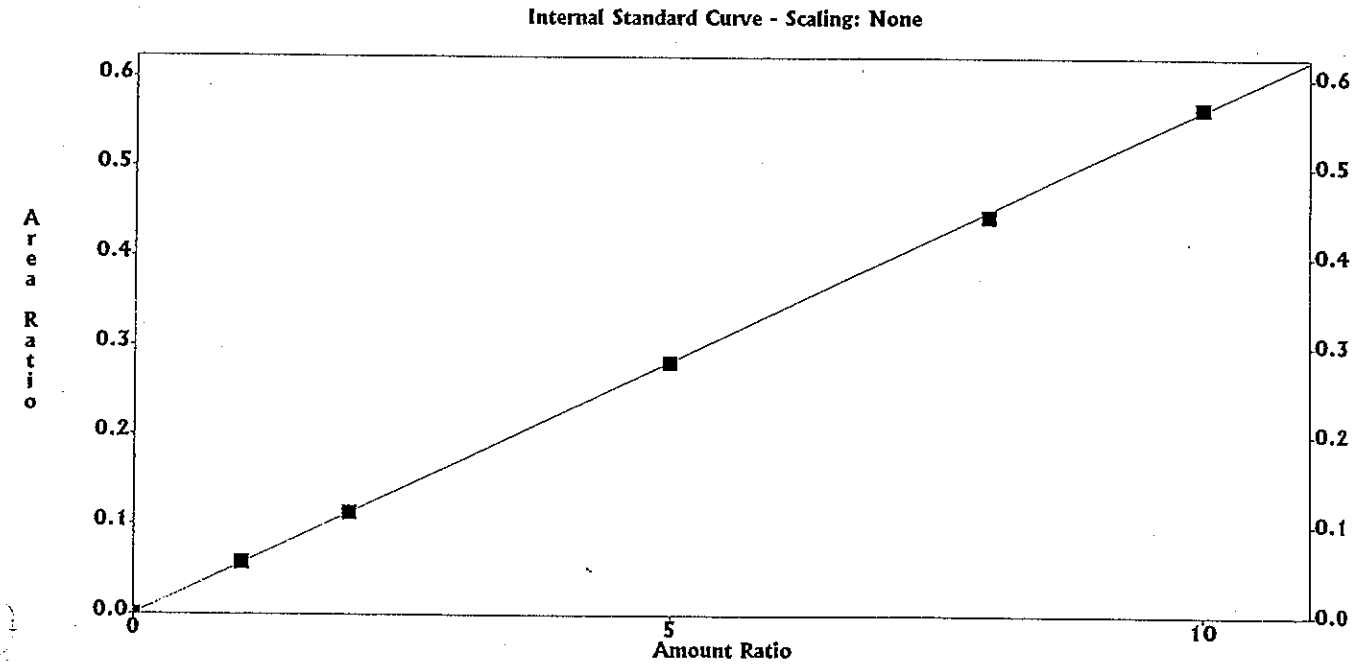
* - Replicate Not Used

al	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0573	1	0.05726	0.0573							0
2	0.1127	2	0.05635	0.1127							0
3	0.2812	5	0.05624	0.2812							0
4	0.4457	8	0.05571	0.4457							0
5	0.5670	10	0.0567	0.5670							0

Calib Flag: Replace

Average RF: 0.0564517
RF StdDev: 0.000575168
RF %RSD: 1.019

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0564517



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 17 Bentazon

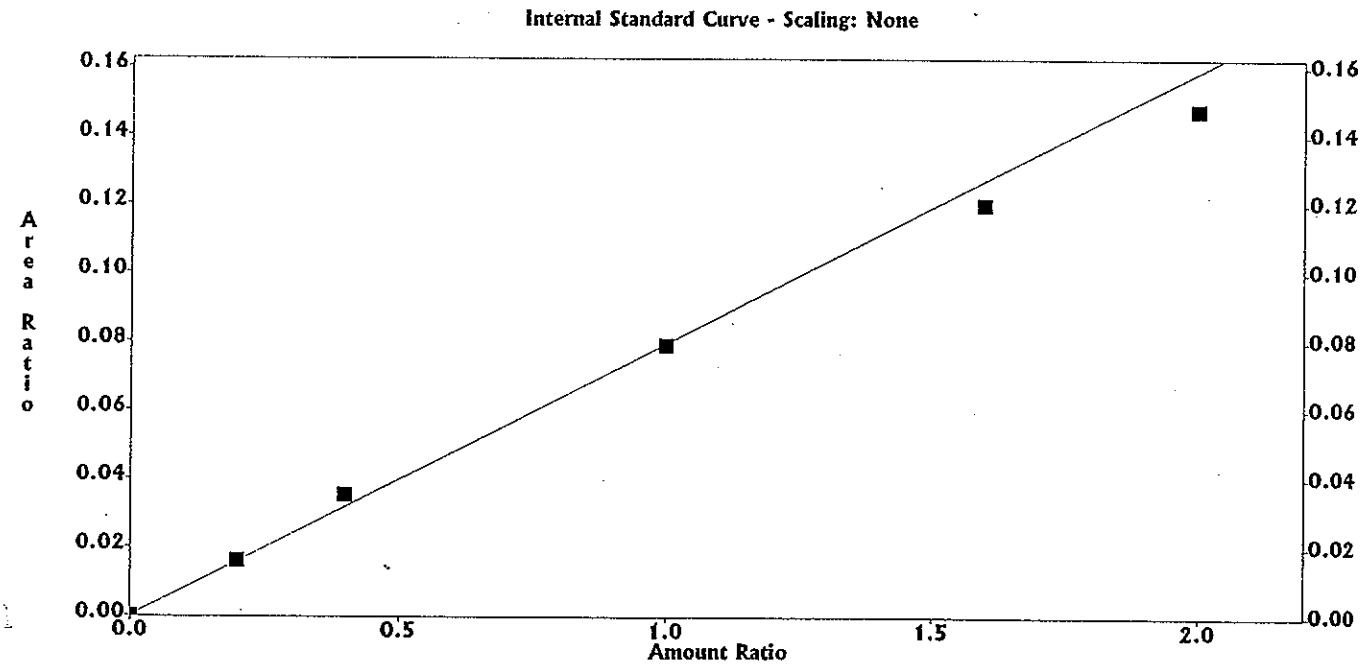
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0162	0.2	0.08079	0.0162							0
2	0.0354	0.4	0.08842	0.0354							0
3	0.0789	1	0.07893	0.0789							0
4	0.1199	1.6	0.07497	0.1199							0
5	0.1477	2	0.07386	0.1477							0

Calib Flag: Replace

Average RF: 0.0793922
RF StdDev: 0.00578699
RF %RSD: 7.289

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0793922



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 18 Picloram

* - Replicate Not Used

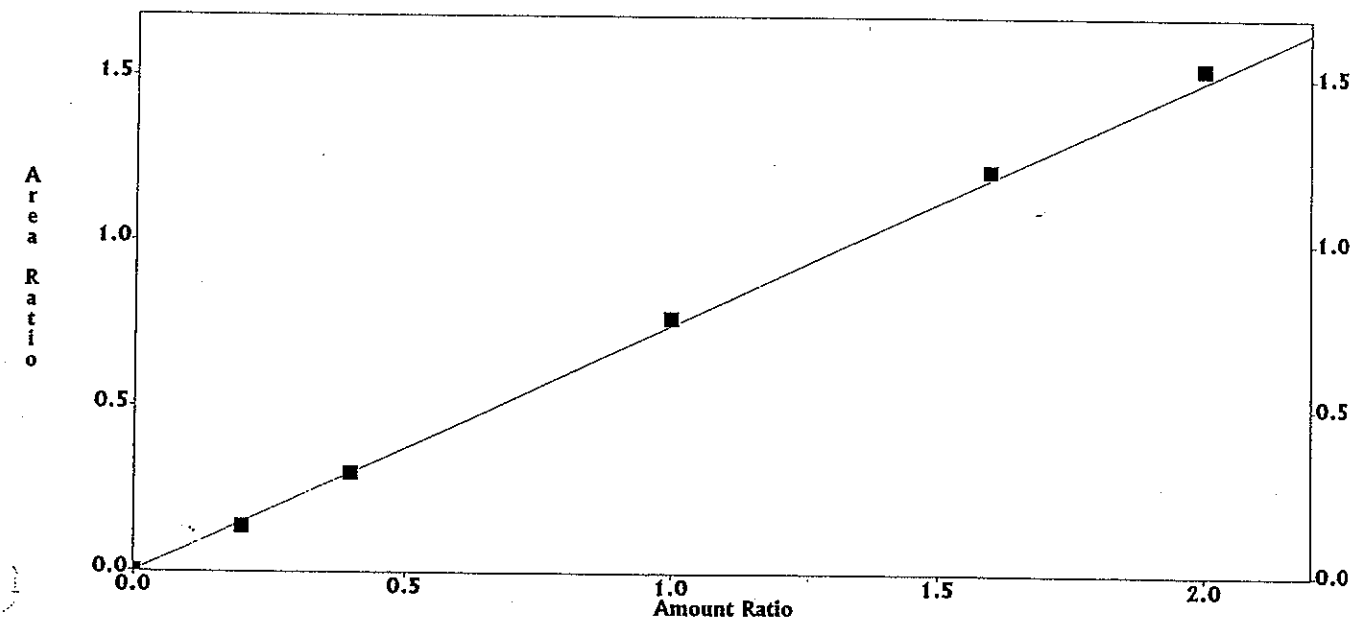
·l	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1373	0.2	0.6865	0.1373							0
2	0.2981	0.4	0.7453	0.2981							0
3	0.7690	1	0.769	0.7690							0
4	1.2179	1.6	0.7612	1.2179							0
5	1.5313	2	0.7656	1.5313							0

Calib Flag: Replace

Average RF: 0.745522
RF StdDev: 0.0342195
RF %RSD: 4.590

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.745522

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 19 DCPA

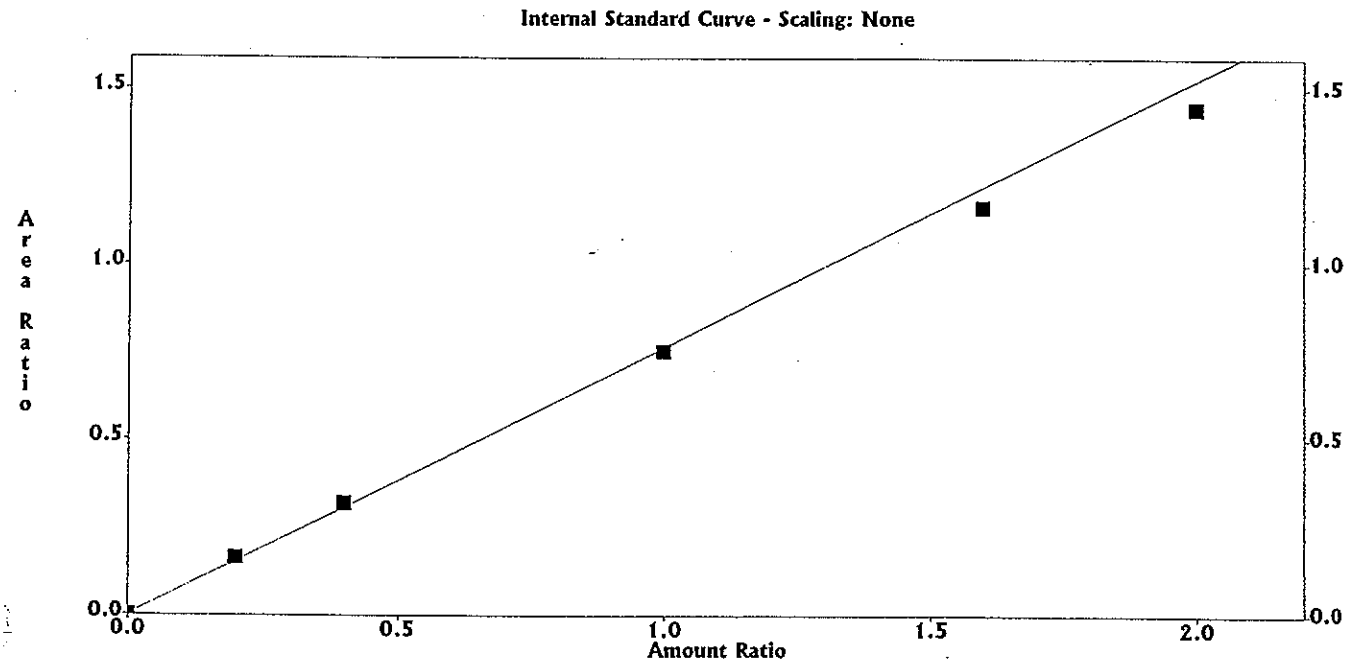
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1631	0.2	0.8156	0.1631							0
2	0.3183	0.4	0.7957	0.3183							0
3	0.7539	1	0.7539	0.7539							0
4	1.1638	1.6	0.7274	1.1638							0
5	1.4456	2	0.7228	1.4456							0

Calib Flag: Replace

Average RF: 0.763057
RF StdDev: 0.0412422
RF %RSD: 5.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.763057



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:37
Channel : A
Peak : 20 Acifluorfen

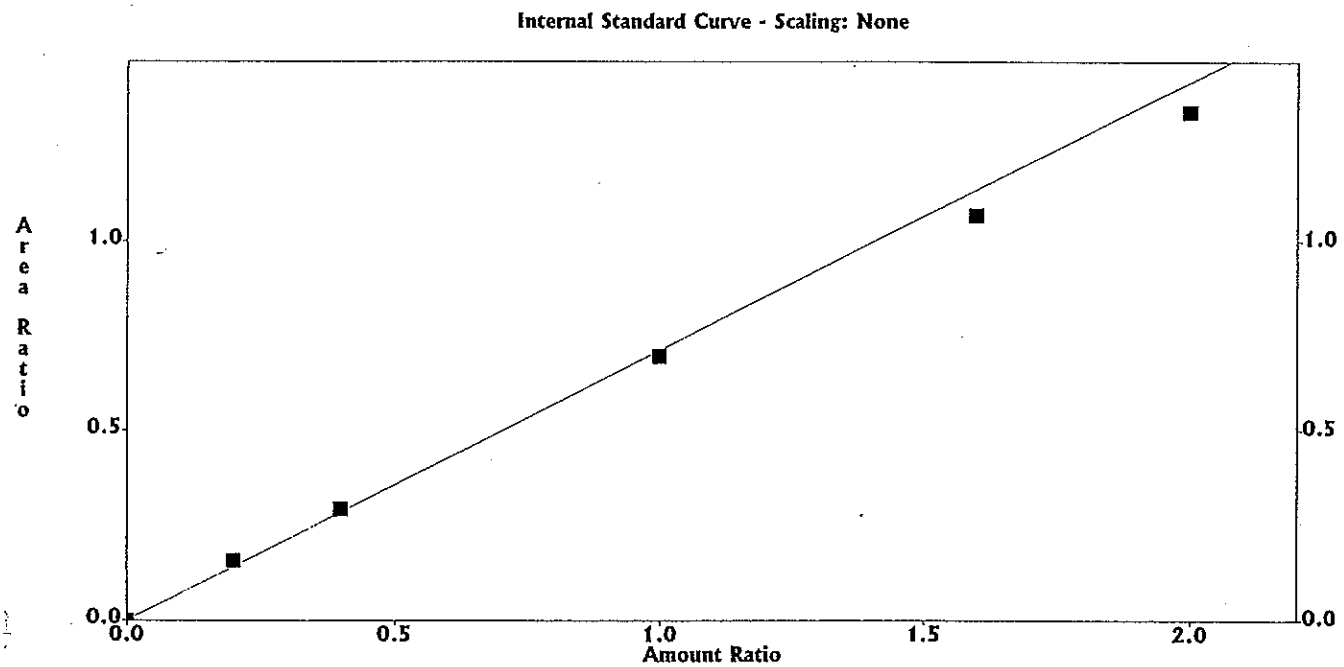
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1579	0.2	0.7895	0.1579							0
2	0.2921	0.4	0.7303	0.2921							0
3	0.6957	1	0.6957	0.6957							0
4	1.0683	1.6	0.6677	1.0683							0
5	1.3422	2	0.6711	1.3422							0

Calib Flag: Replace

Average RF: 0.710861
RF StdDev: 0.0506144
RF %RSD: 7.120

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.710861



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 1 Dalapon

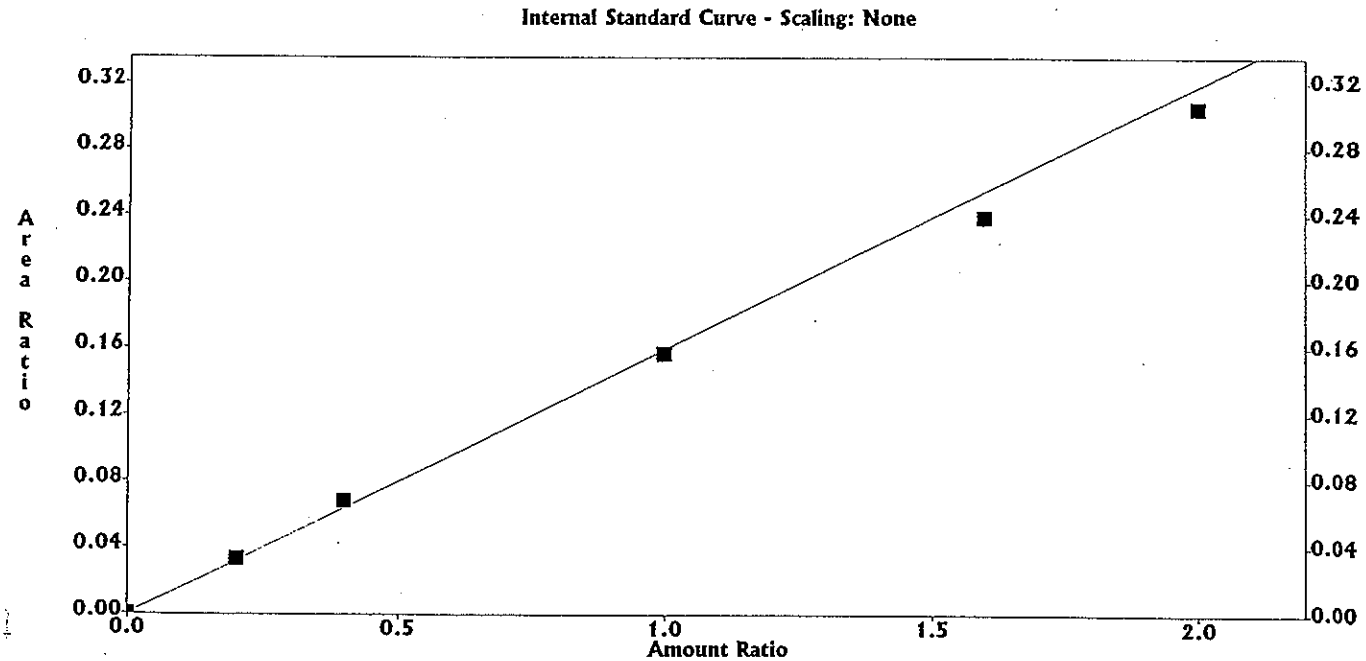
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0332	0.2	0.1659	0.0332							0
2	0.0683	0.4	0.1707	0.0683							0
3	0.1569	1	0.1569	0.1569							0
4	0.2390	1.6	0.1494	0.2390							0
5	0.3051	2	0.1525	0.3051							0

Calib Flag: Replace

Average RF: 0.159073
RF StdDev: 0.00900517
RF %RSD: 5.661

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.159073



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

* - Replicate Not Used

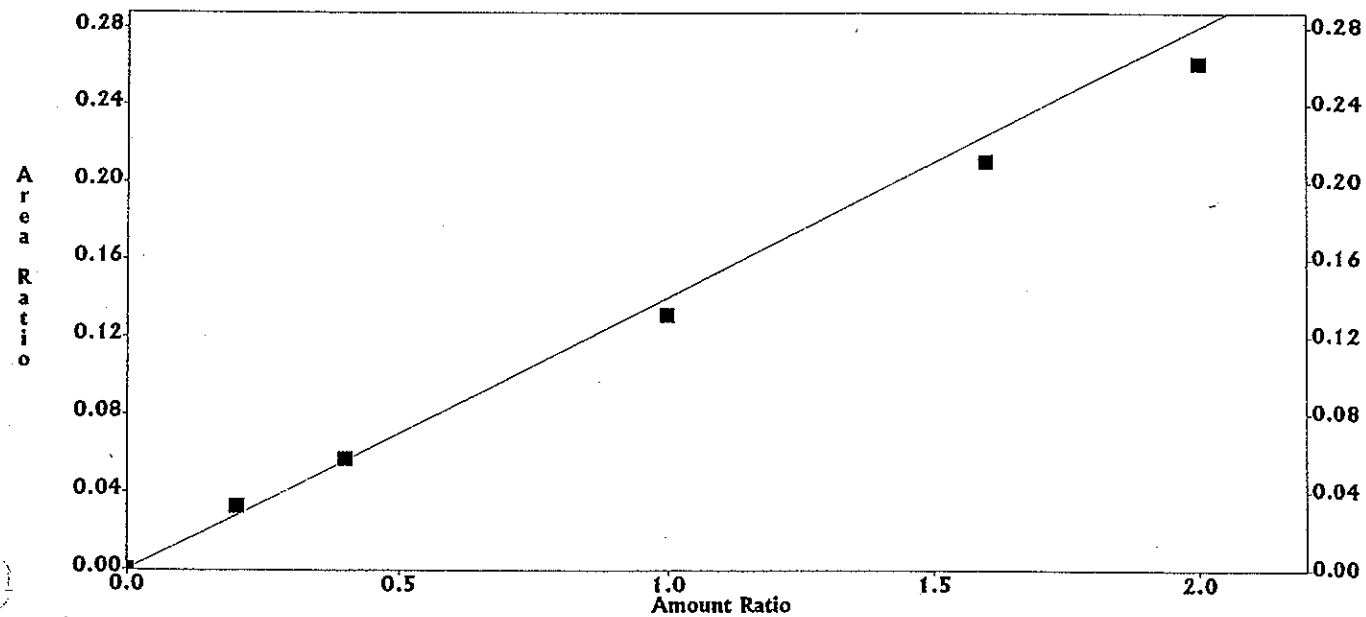
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0328	0.2	0.1638	0.0328							0
2	0.0571	0.4	0.1428	0.0571							0
3	0.1316	1	0.1316	0.1316							0
4	0.2108	1.6	0.1317	0.2108							0
5	0.2617	2	0.1309	0.2617							0

Calib Flag: Replace

Average RF: 0.140157
RF StdDev: 0.0141192
RF %RSD: 10.074

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.140157

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 3 4-Nitrophenol

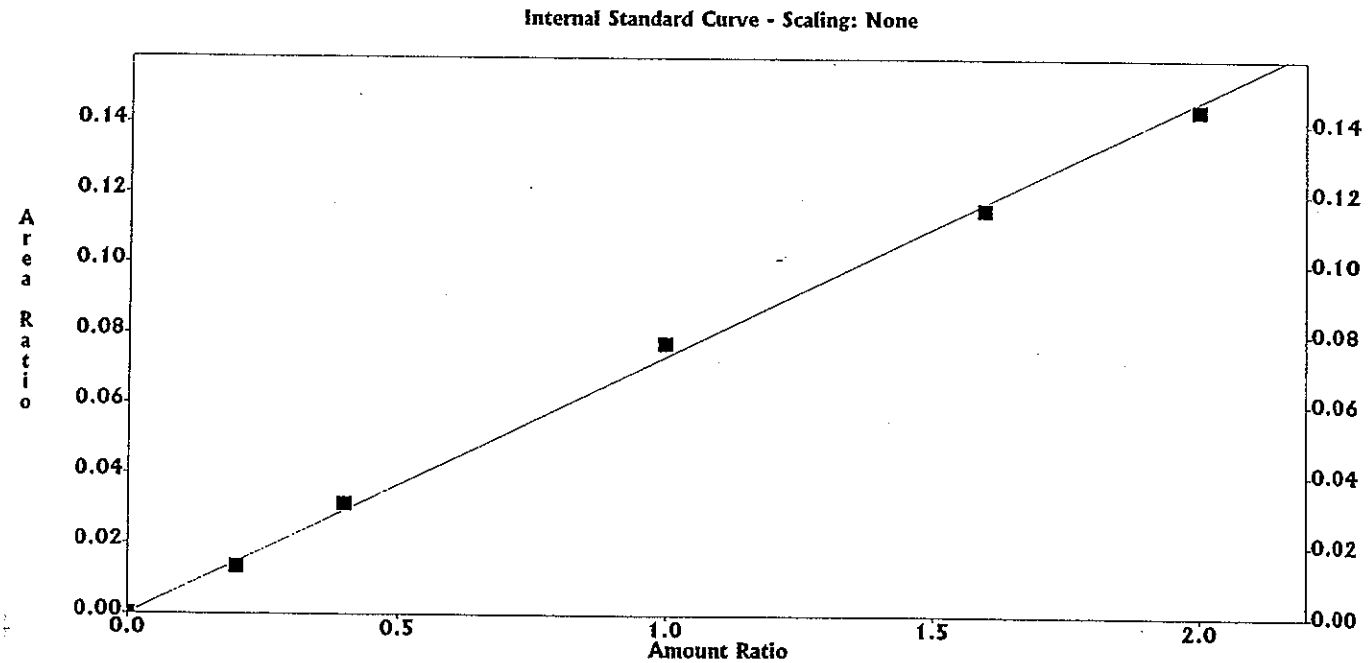
* - Replicate Not Used

ıl	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0134	0.2	0.0671	0.0134							0
2	0.0314	0.4	0.07844	0.0314							0
3	0.0773	1	0.07727	0.0773							0
4	0.1156	1.6	0.07227	0.1156							0
5	0.1443	2	0.07216	0.1443							0

Calib Flag: Replace

Average RF: 0.0734475
RF StdDev: 0.0045514
RF %RSD: 6.197

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0734475



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 4 DCAA (surr)

* - Replicate Not Used

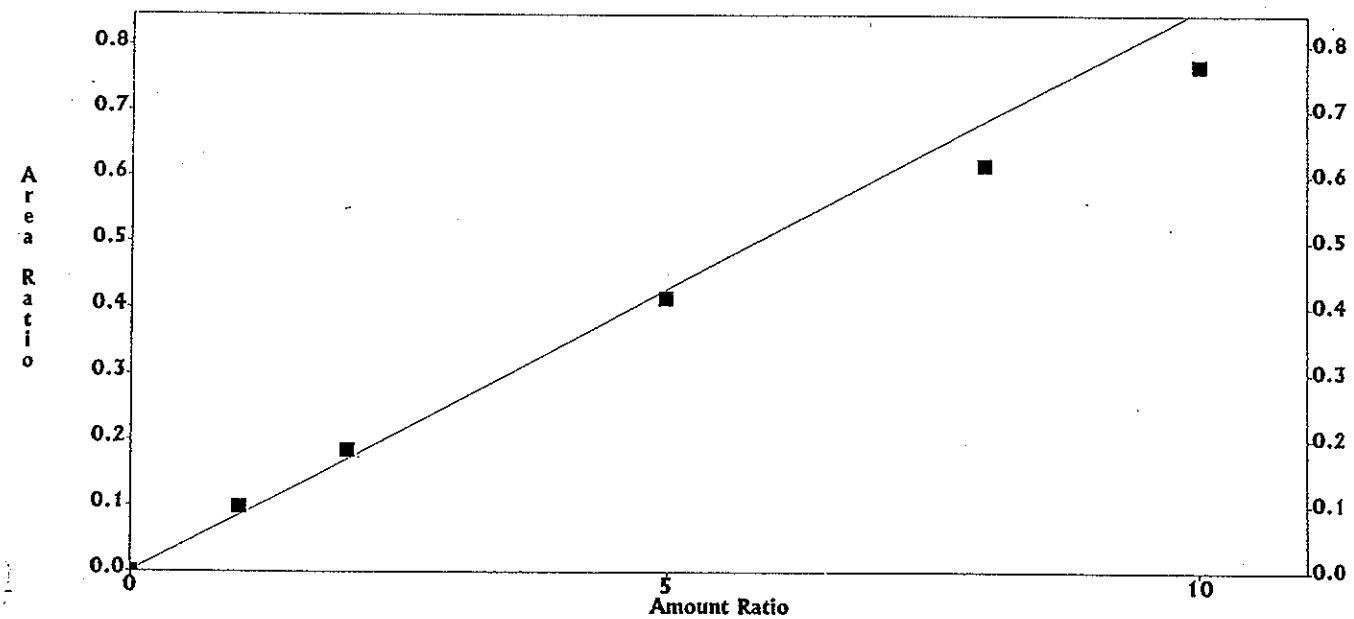
.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0983	1	0.09832	0.0983							0
2	0.1846	2	0.09231	0.1846							0
3	0.4149	5	0.08299	0.4149							0
4	0.6178	8	0.07722	0.6178							0
5	0.7704	10	0.07704	0.7704							0

Calib Flag: Replace

Average RF: 0.0855754
RF StdDev: 0.00944904
RF %RSD: 11.042

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0855754

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 5 Dicamba

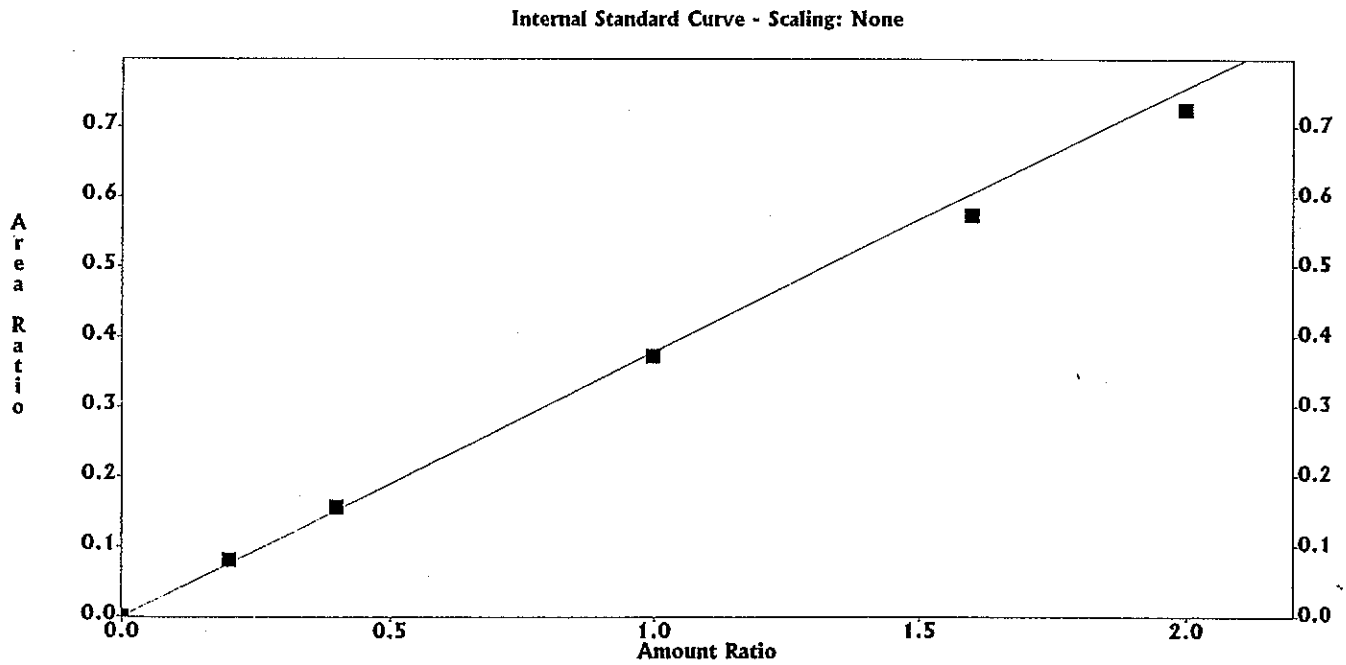
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0809	0.2	0.4047	0.0809							0
2	0.1564	0.4	0.3911	0.1564							0
3	0.3723	1	0.3723	0.3723							0
4	0.5733	1.6	0.3583	0.5733							0
5	0.7254	2	0.3627	0.7254							0

Calib Flag: Replace

Average RF: 0.37782
RF StdDev: 0.0196009
RF %RSD: 5.188

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.37782



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 6 MCPP (ppm)

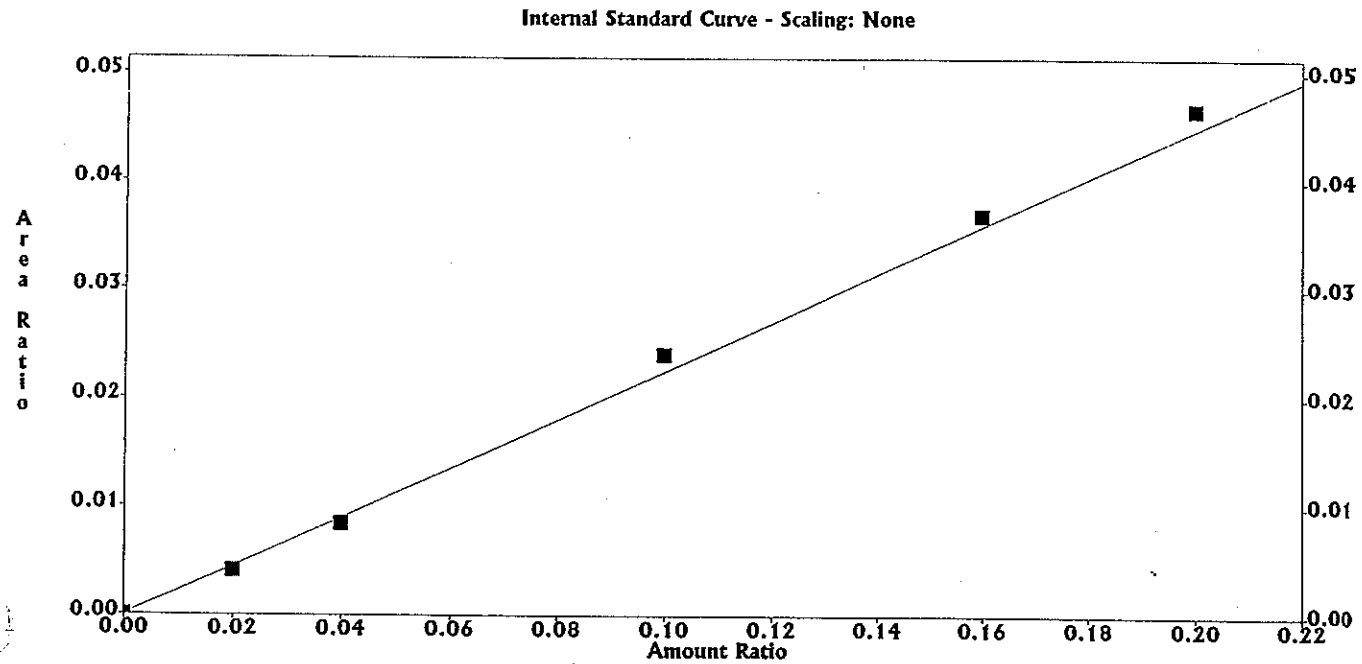
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	0.02	0.2051	0.0041							0
2	0.0085	0.04	0.2113	0.0085							0
3	0.0240	0.1	0.2405	0.0240							0
4	0.0369	0.16	0.2306	0.0369							0
5	0.0467	0.2	0.2336	0.0467							0

Calib Flag: Replace

Average RF: 0.22421
RF StdDev: 0.0152017
RF %RSD: 6.780

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.22421



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 7 DBOB (IS)

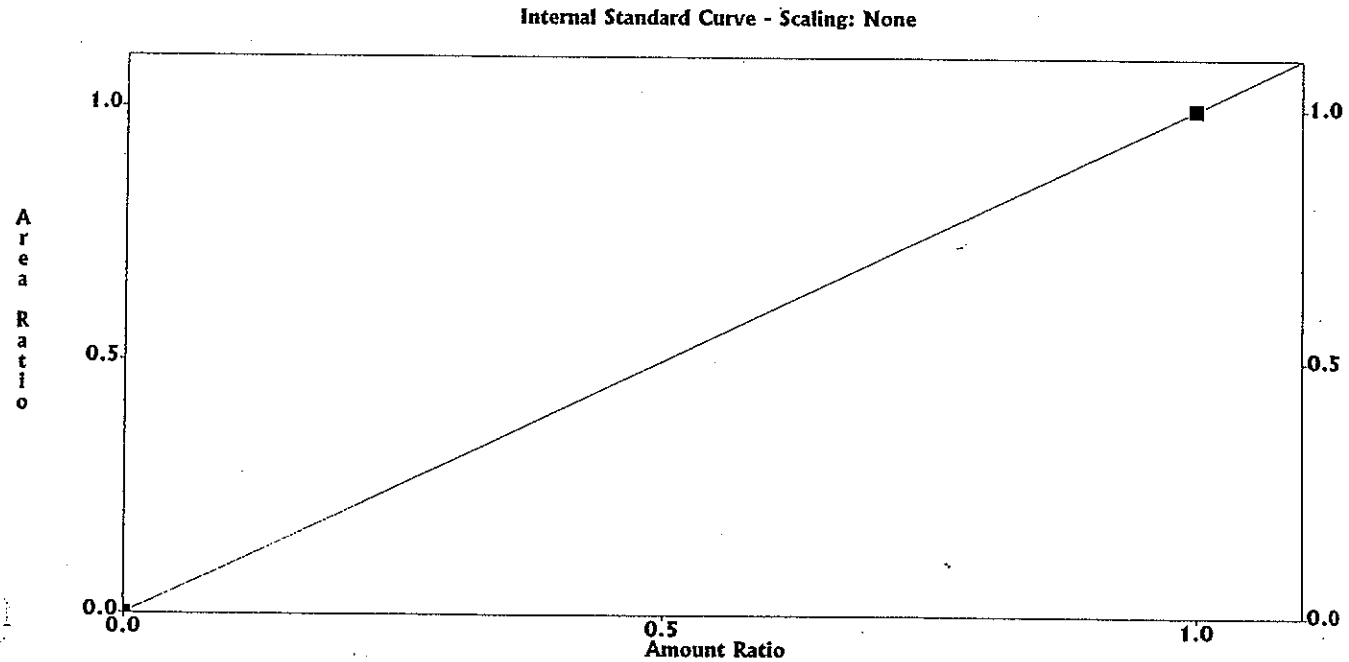
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 8 MCPA (ppm)

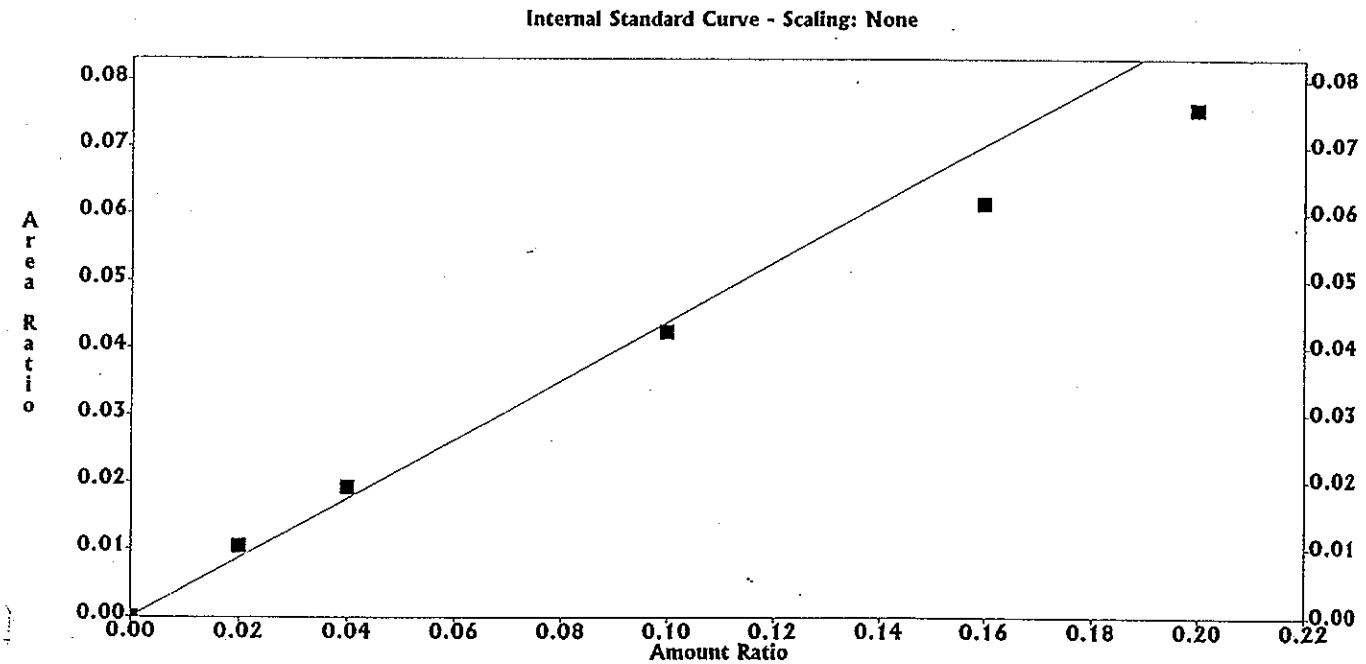
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0105	0.02	0.5256	0.0105							
2	0.0192	0.04	0.4812	0.0192							0
3	0.0425	0.1	0.4247	0.0425							0
4	0.0615	0.16	0.3845	0.0615							0
5	0.0757	0.2	0.3786	0.0757							0
											0

Calib Flag: Replace

Average RF: 0.438923
RF StdDev: 0.0634385
RF %RSD: 14.453

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.438923



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 9 Dichloroprop

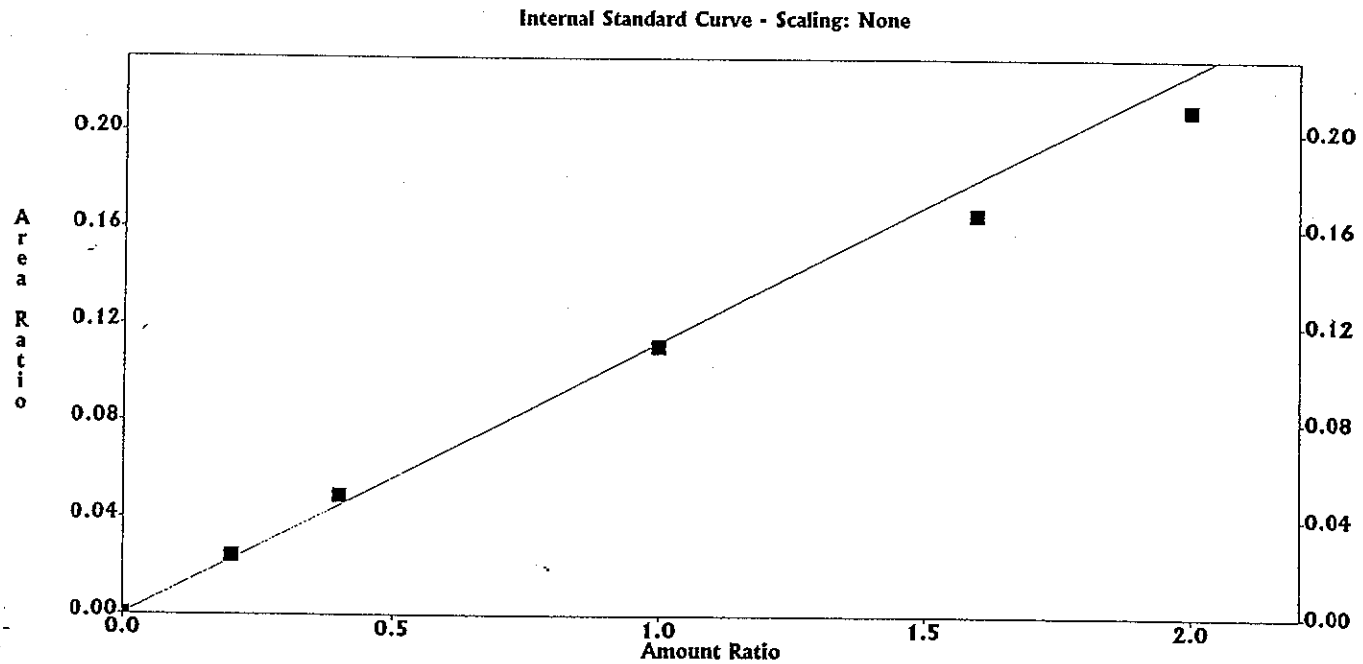
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0241	0.2	0.1206	0.0241							0
2	0.0492	0.4	0.123	0.0492							0
3	0.1111	1	0.1111	0.1111							0
4	0.1658	1.6	0.1036	0.1658							0
5	0.2097	2	0.1048	0.2097							0

Calib Flag: Replace

Average RF: 0.112632
RF StdDev: 0.00887648
RF %RSD: 7.881

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.112632



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 10 2,4-D (m)

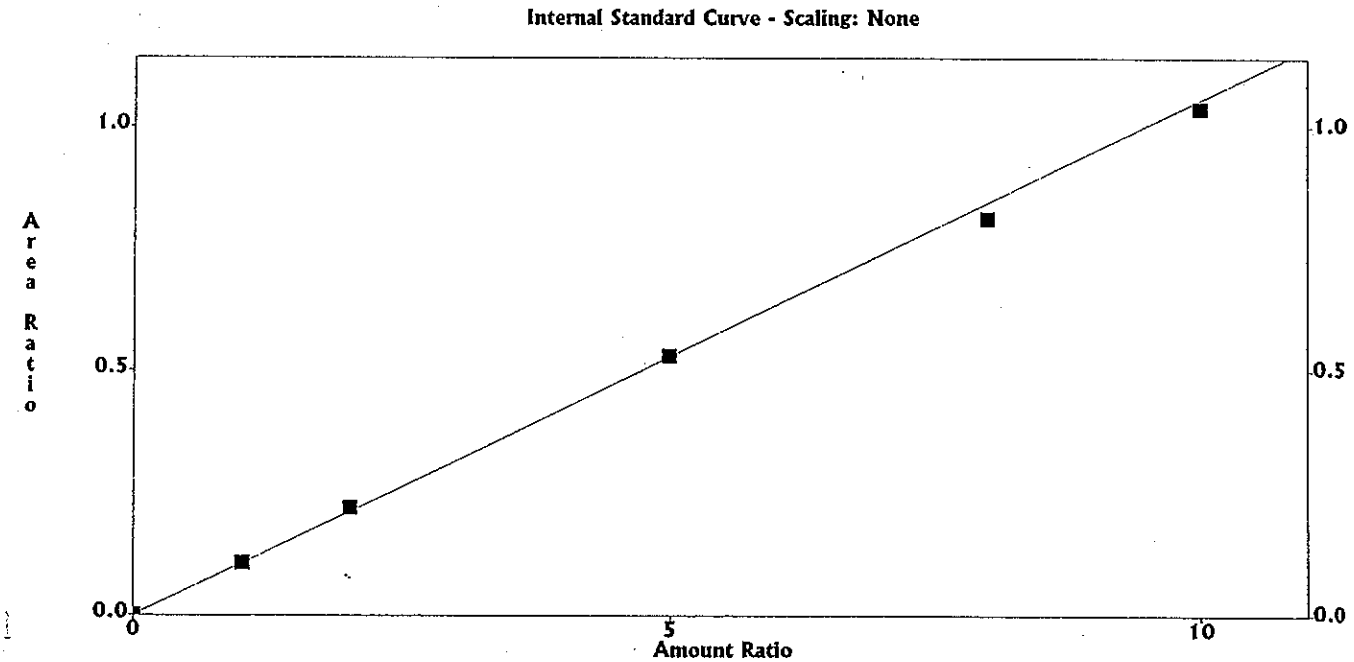
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1068	1	0.1068	0.1068							0
2	0.2199	2	0.1099	0.2199							0
3	0.5309	5	0.1062	0.5309							0
4	0.8125	8	0.1016	0.8125							0
5	1.0390	10	0.1039	1.0390							0

Calib Flag: Replace

Average RF: 0.105689
RF StdDev: 0.00315904
RF %RSD: 2.989

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.105689



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 11 Pentachlorphenol

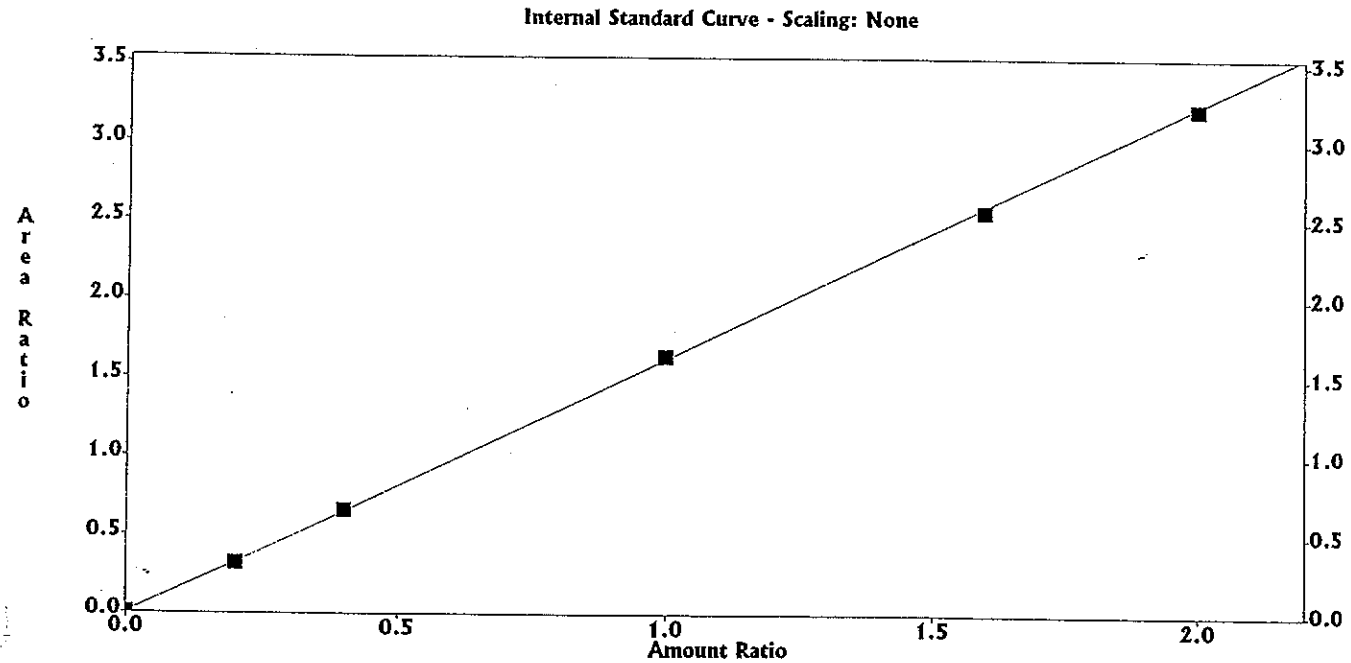
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3215	0.2	1.61	0.3215							0
2	0.6569	0.4	1.64	0.6569							0
3	1.6403	1	1.64	1.6403							0
4	2.5636	1.6	1.60	2.5636							0
5	3.2221	2	1.61	3.2221							0

Calib Flag: Replace

Average RF: 1.62064
RF StdDev: 0.0191153
RF %RSD: 1.179

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.62064



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 12 Silvex (m)

* - Replicate Not Used

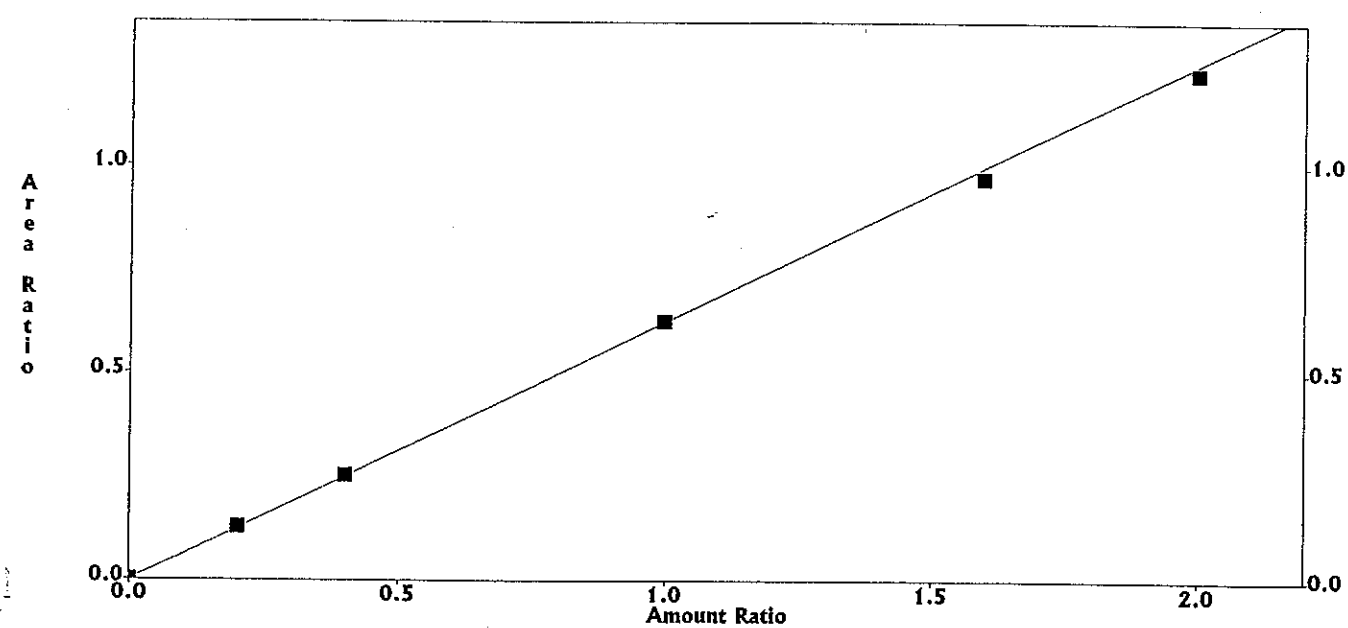
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1285	0.2	0.6423	0.1285							0
2	0.2527	0.4	0.6317	0.2527							0
3	0.6251	1	0.6251	0.6251							0
4	0.9710	1.6	0.6069	0.9710							0
5	1.2262	2	0.6131	1.2262							0

Calib Flag: Replace

Average RF: 0.623829
RF StdDev: 0.0142041
RF %RSD: 2.277

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.623829

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 13 2,4,5-T (m)

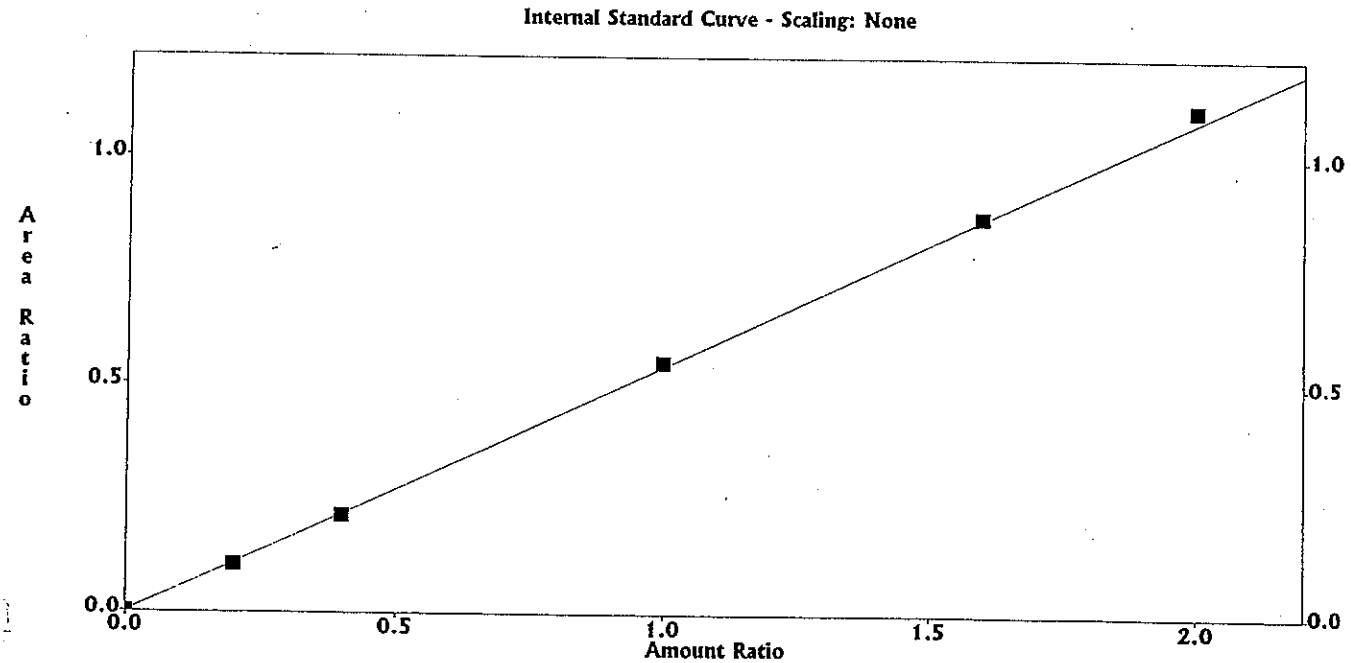
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1046	0.2	0.5232	0.1046							
2	0.2129	0.4	0.5322	0.2129							0
3	0.5507	1	0.5507	0.5507							0
4	0.8723	1.6	0.5452	0.8723							0
5	1.1102	2	0.5551	1.1102							0
											0

Calib Flag: Replace

Average RF: 0.541272
RF StdDev: 0.0132705
RF %RSD: 2.452

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.541272



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 14 Dinoseb

* - Replicate Not Used

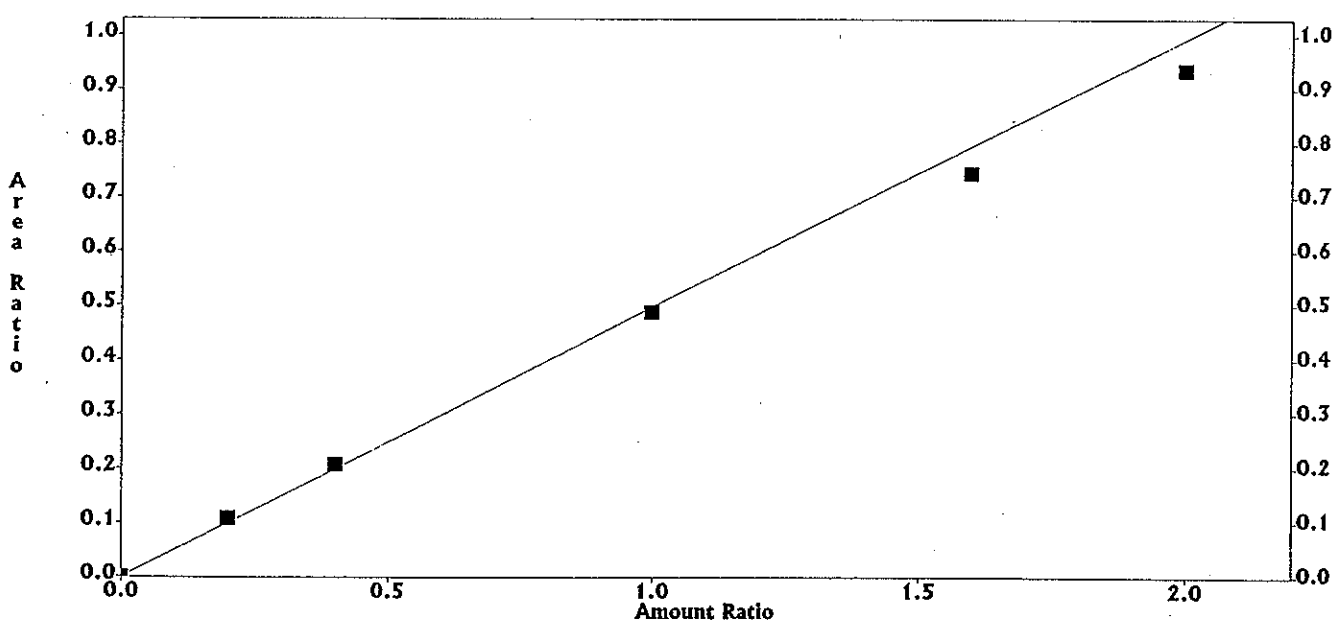
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1088	0.2	0.5442	0.1088							0
2	0.2074	0.4	0.5185	0.2074							0
3	0.4877	1	0.4877	0.4877							0
4	0.7450	1.6	0.4656	0.7450							0
5	0.9374	2	0.4687	0.9374							0

Calib Flag: Replace

Average RF: 0.496953
RF StdDev: 0.0337682
RF %RSD: 6.795

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.496953

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 15 Chloramben

* - Replicate Not Used

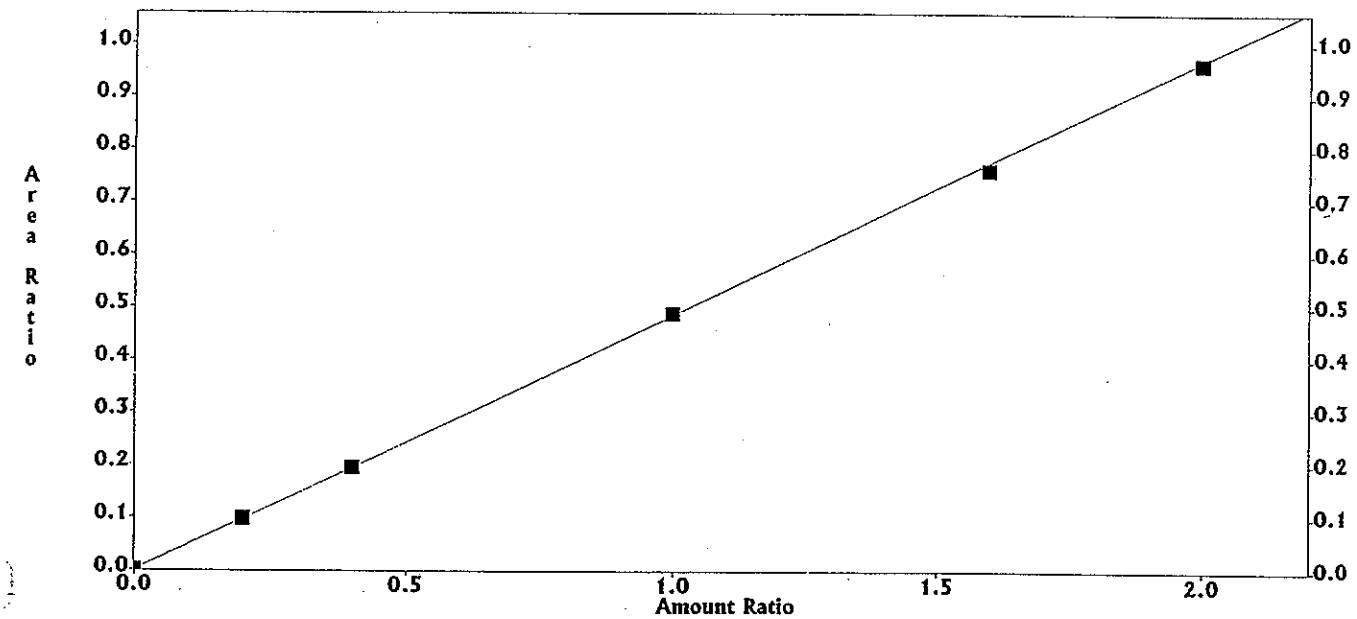
Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0984	0.2	0.4922	0.0984							0
2	0.1945	0.4	0.4862	0.1945							0
3	0.4885	1	0.4885	0.4885							0
4	0.7606	1.6	0.4754	0.7606							0
5	0.9633	2	0.4817	0.9633							0

Calib Flag: Replace

Average RF: 0.48477
RF StdDev: 0.00648515
RF %RSD: 1.338

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.48477

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 16 2,4-DB

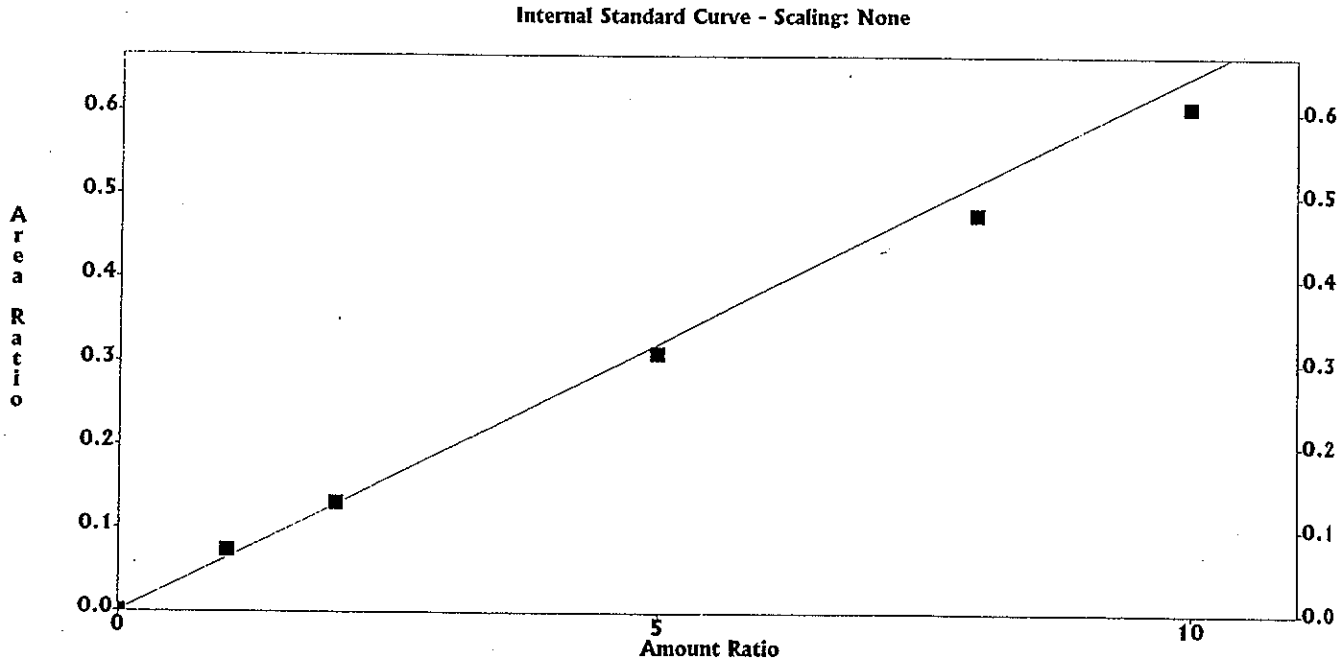
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0739	1	0.07388	0.0739							0
2	0.1309	2	0.06543	0.1309							0
3	0.3111	5	0.06223	0.3111							0
4	0.4774	8	0.05968	0.4774							0
5	0.6076	10	0.06076	0.6076							0

Calib Flag: Replace

Average RF: 0.0643943
RF StdDev: 0.00572644
RF %RSD: 8.893

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0643943



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 17 Bentazon

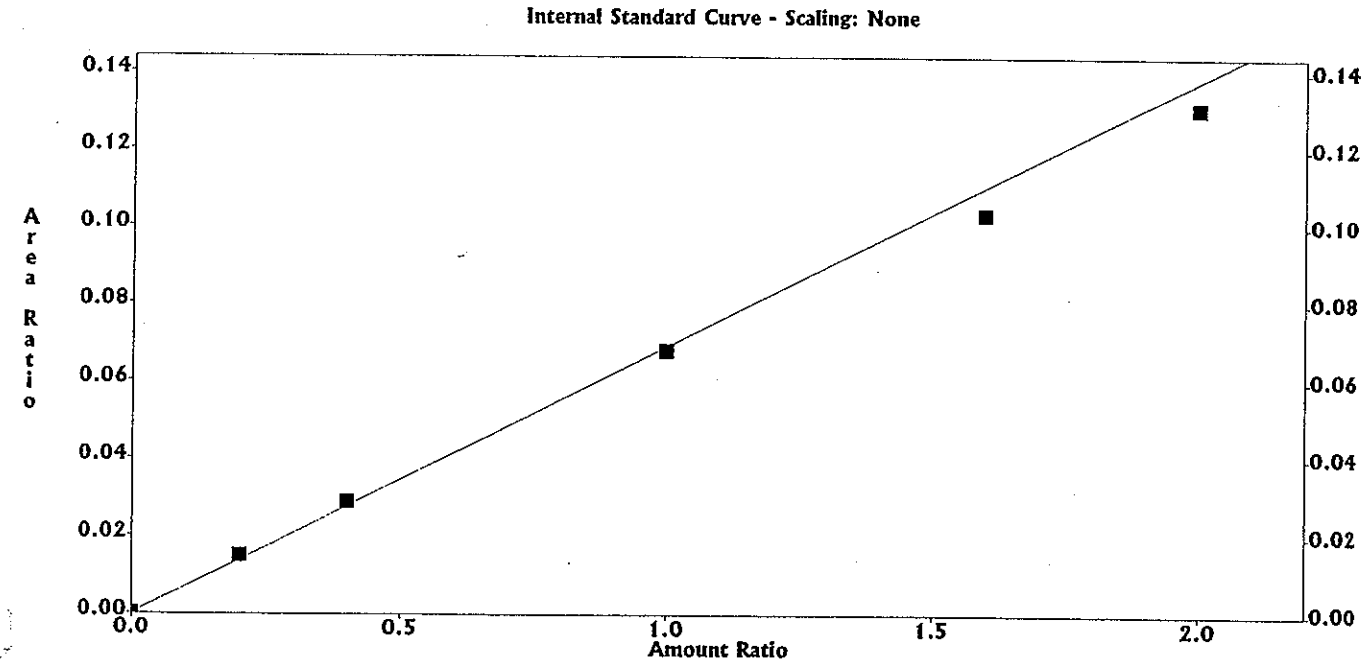
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0150	0.2	0.07504	0.0150							0
2	0.0287	0.4	0.07186	0.0287							0
3	0.0680	1	0.06797	0.0680							0
4	0.1032	1.6	0.06449	0.1032							0
5	0.1309	2	0.06547	0.1309							0

Calib Flag: Replace

Average RF: 0.0689651
RF StdDev: 0.00443058
RF %RSD: 6.424

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0689651



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 18 DCPA

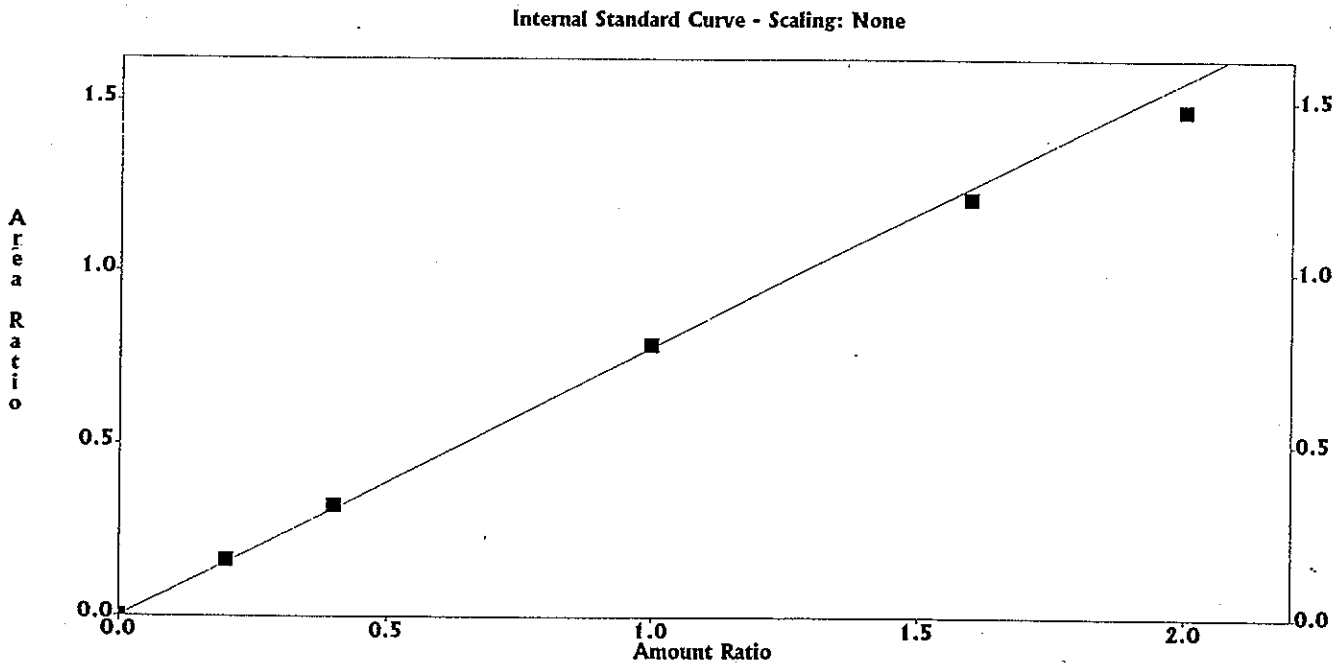
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1628	0.2	0.8142	0.1628							0
2	0.3226	0.4	0.8065	0.3226							0
3	0.7906	1	0.7906	0.7906							0
4	1.2167	1.6	0.7604	1.2167							0
5	1.4768	2	0.7384	1.4768							0

Calib Flag: Replace

Average RF: 0.782016
RF StdDev: 0.0319134
RF %RSD: 4.081

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.782016



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 19 Picloram

* - Replicate Not Used

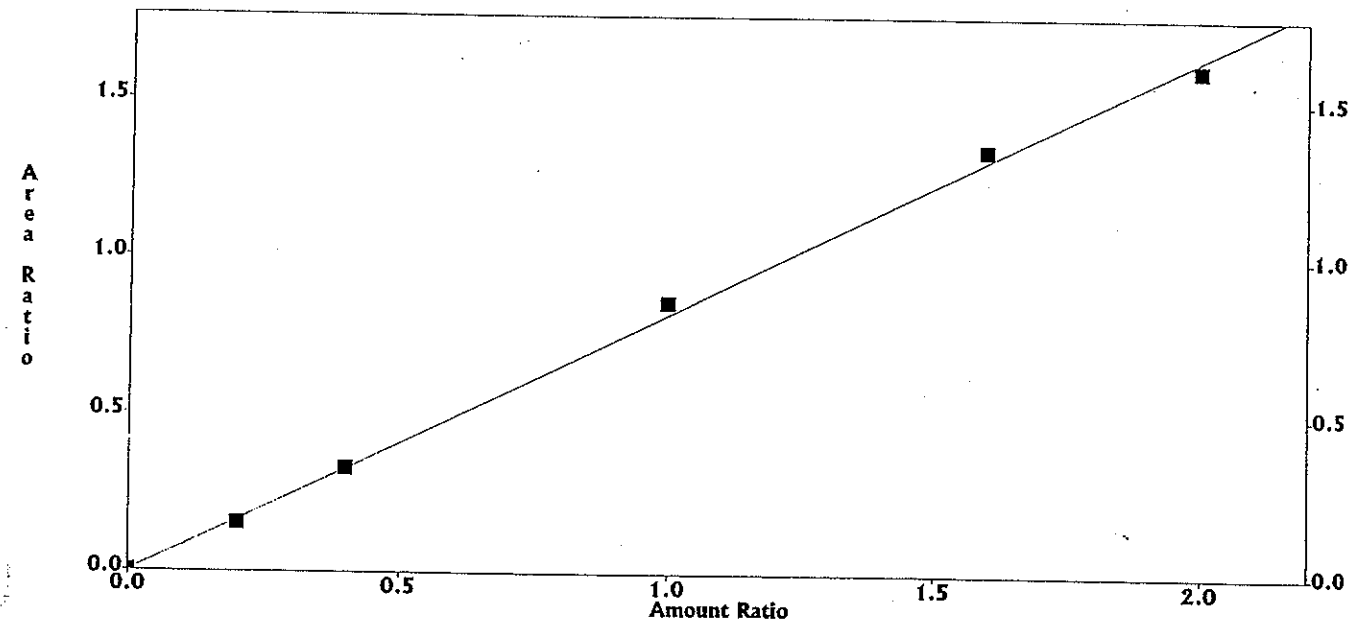
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1546	0.2	0.7728	0.1546							
2	0.3302	0.4	0.8255	0.3302							0
3	0.8587	1	0.8587	0.8587							0
4	1.3462	1.6	0.8414	1.3462							0
5	1.6088	2	0.8044	1.6088							0
											0

Calib Flag: Replace

Average RF: 0.820557
RF StdDev: 0.0333579
RF %RSD: 4.065

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.820557

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 20 Acifluorfen

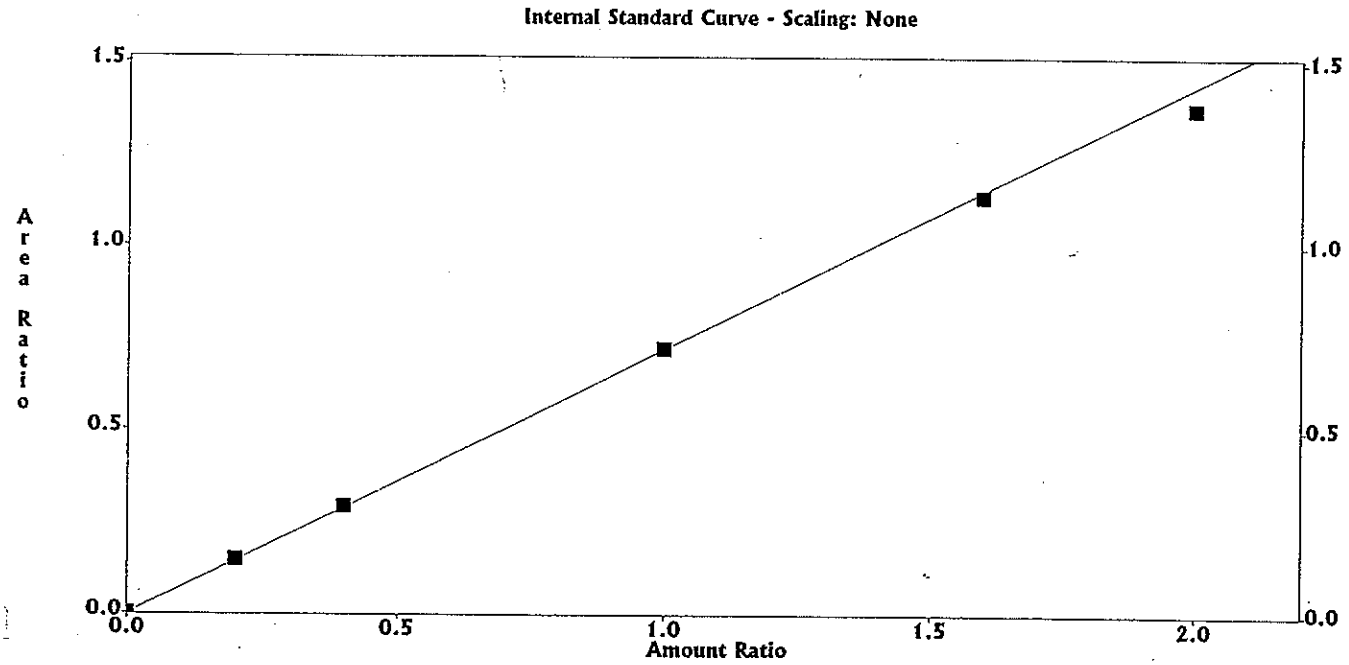
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1485	0.2	0.7425	0.1485							0
2	0.2930	0.4	0.7325	0.2930							0
3	0.7200	1	0.72	0.7200							0
4	1.1354	1.6	0.7096	1.1354							0
5	1.3782	2	0.6891	1.3782							0

Calib Flag: Replace

Average RF: 0.718754
RF StdDev: 0.020734
RF %RSD: 2.885

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.718754



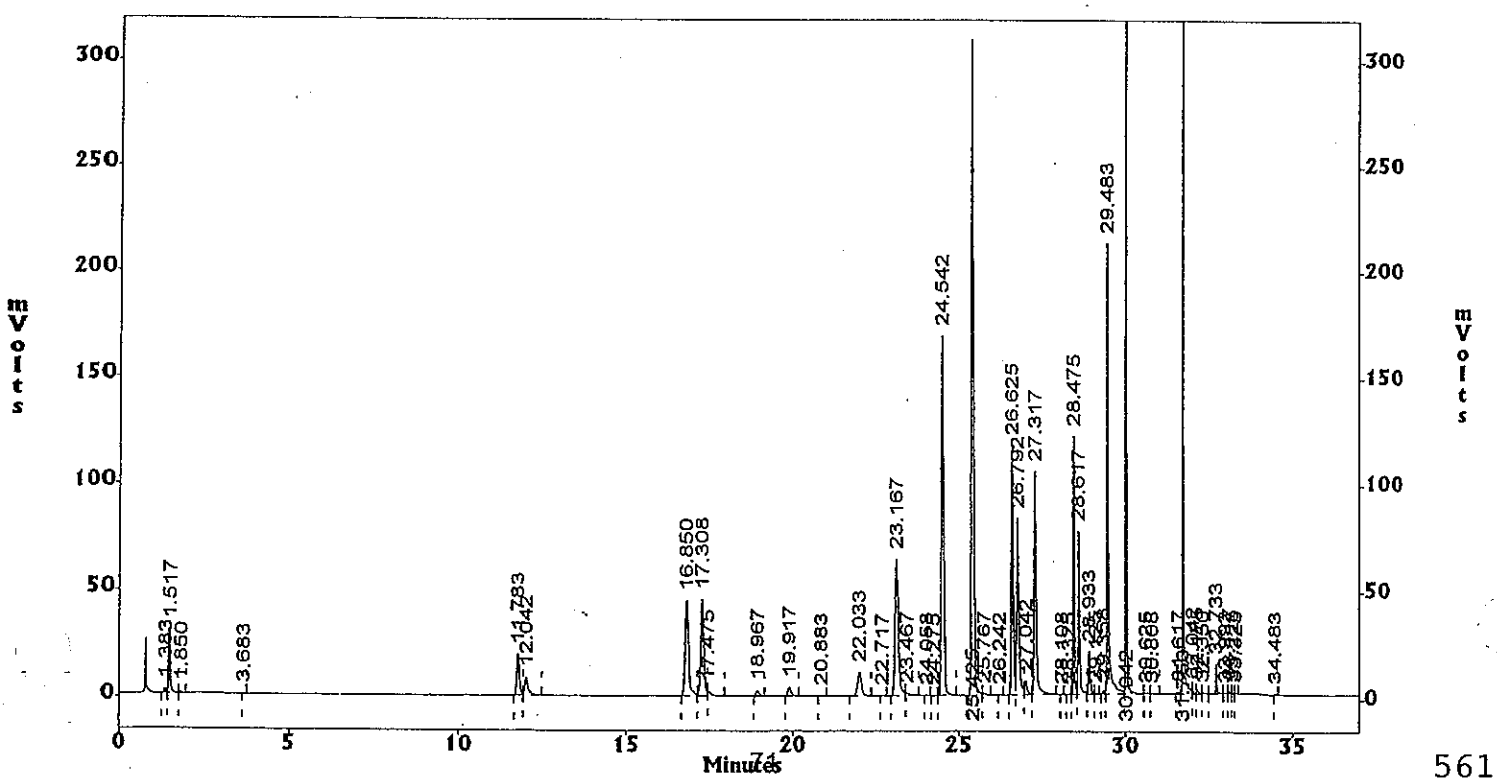
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
mple ID : ##03g3116,s GC14184
quired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.52	111475	29937	0.129749	251.15
5	2	3,5-Di-Cl-Bz acid	11.78	105410	19034	0.125046	246.42
6	3	4-Nitrophenol	12.04	59404	8280	0.070732	245.51
7	4	DCAA(Surr)	16.85	308684	44512	0.073885	1221.30
8	5	Dicamba	17.31	295593	45111	0.353447	244.48
10	6	MCPP(ppm)	18.97	16413	2582	0.179235	26.77
11	7	MCPA(PPm)	19.92	28134	3947	0.343572	23.94
13	8	Dichloroprop	22.03	87068	11009	0.099712	255.26
15	9	2,4-D (m)	23.17	431483	64067	0.101099	1247.61
19	10	DBOB (IS)	24.54	855215	168746	1.000000	250.00
20	11	Pentachlorphenol	25.42	1348189	309292	1.555308	253.40
23	12	Silvex (m)	26.63	484308	117189	0.558710	253.40
24	13	Chloramben	26.79	383702	82699	0.444269	252.47
26	14	2,4,5-T (m)	27.32	463950	104438	0.534963	253.52
29	15	Dinoseb	28.48	358769	121119	0.419514	250.00
30	16	2,4-DB	28.62	240558	76533	0.056452	1245.68
31	17	Bentazon	28.93	67993	19904	0.079392	250.35
34	18	Picloram	29.48	662747	211569	0.745522	259.87
35	19	DCPA	30.04	657205	316649	0.763057	251.77
39	20	Acifluorfen	31.75	609417	316960	0.710861	250.61

c:\data\2003\0307\8151t\03g3116\3116g.q01 -- Channel A

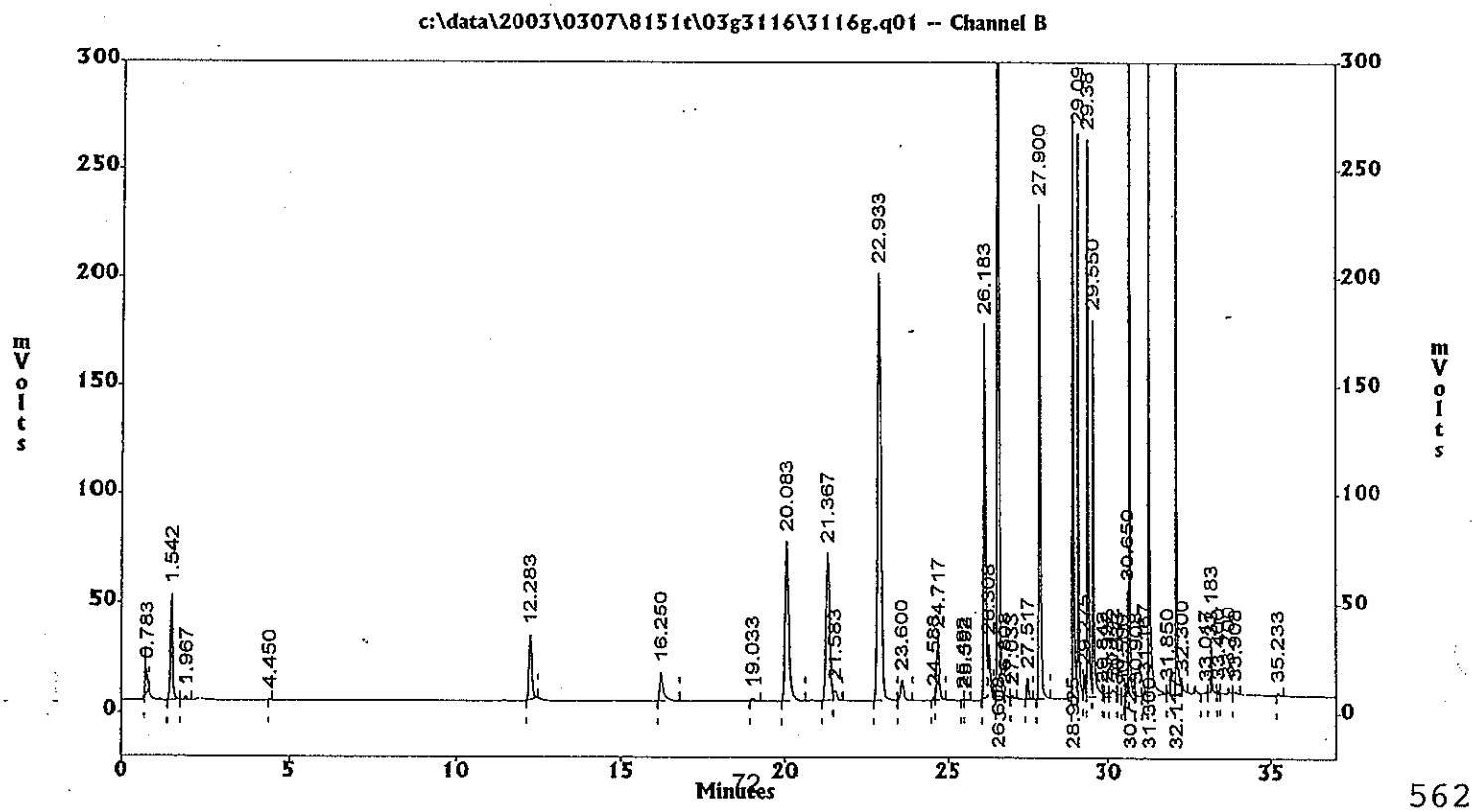


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##03g3116,s GC14184
Acquired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
2	1	Dalapon	1.54	223601	48562	0.159073	250.59
5	2	3,5-Di-Cl-Bz acid	12.28	183584	29171	0.140157	233.51
6	3	4-Nitrophenol	16.25	107834	12857	0.073447	261.74
8	4	DCAA (surr)	20.08	581042	73131	0.085575	1210.45
9	5	Dicamba	21.37	520623	67739	0.377820	245.65
10	6	MCPP (ppm)	21.58	32612	4461	0.224210	25.93
11	7	DBOB (IS)	22.93	1402341	196451	1.000000	250.00
12	8	MCPA (ppm)	23.60	59289	8943	0.438923	24.08
14	9	Dichloroprop	24.72	155810	27985	0.112632	246.62
17	10	2,4-D (m)	26.18	732906	172130	0.105689	1236.25
19	11	Pentachlorphenol	26.61	2276273	550193	1.620643	250.39
23	12	Silvex (m)	27.90	877925	227162	0.623829	250.89
24	13	2,4,5-T (m)	28.92	772896	266474	0.541272	254.56
25	14	Dinoseb	29.09	693676	259393	0.496953	248.84
27	15	Chloramben	29.38	693036	256621	0.484770	254.86
28	16	2,4-DB	29.55	456089	173518	0.064394	1262.67
34	17	Bentazon	30.65	95688	48518	0.068965	247.35
35	18	DCPA	30.73	1115576	570988	0.782016	254.31
38	19	Picloram	31.30	1209292	572608	0.820557	262.73
40	20	Acifluorfen	32.12	1025810	551982	0.718754	254.43



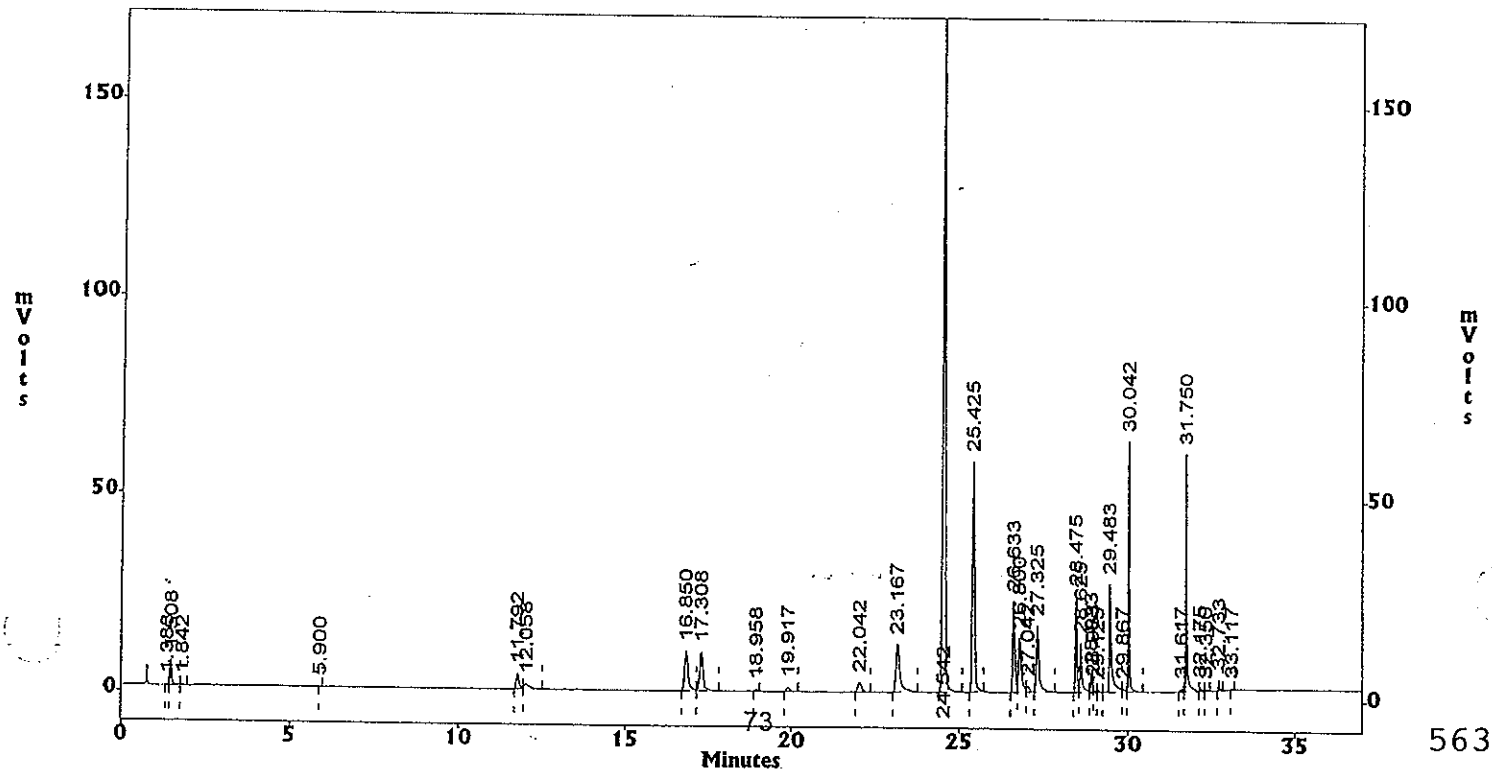
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.050
Method : c:\ezchrom\methods\8151-063.t00
mple ID : 50 ppb GC15411
cquired : Jul 08, 2003 13:43:06
Printed : Jul 09, 2003 09:52:01
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.51	23573	6342	0.129749	50.00
5	2	3,5-Di-Cl-Bz acid	11.79	23725	3760	0.125046	50.00
6	3	4-Nitrophenol	12.06	13296	1230	0.070732	50.00
7	4	DCAA(Surr)	16.85	73302	9866	0.073885	250.00
8	5	Dicamba	17.31	67260	9515	0.353447	50.00
9	6	MCPP(ppm)	18.96	2435	451	0.179235	5.00
10	7	MCPA(PPm)	19.92	7097	958	0.343572	5.00
11	8	Dichloroprop	22.04	18959	2388	0.099712	50.00
12	9	2,4-D (m)	23.17	96401	11876	0.101099	250.00
13	10	DBOB (IS)	24.54	869935	170873	1.000000	250.00
14	11	Pentachlorphenol	25.42	268629	57983	1.555308	50.00
15	12	Silvex (m)	26.63	99267	22833	0.558710	50.00
16	13	Chloramben	26.80	77517	13527	0.444269	50.00
18	14	2,4,5-T (m)	27.33	93116	16455	0.534963	50.00
19	15	Dinoseb	28.48	77072	24134	0.419514	50.00
20	16	2,4-DB	28.63	49814	12138	0.056452	250.00
21	17	Bentazon	28.93	14056	4384	0.079392	50.00
24	18	Picloram	29.48	119444	27055	0.745522	50.00
26	19	DCPA	30.04	141899	63027	0.763057	50.00
28	20	Acifluorfen	31.75	137371	59610	0.710861	50.00

c:\data\2003\0307\8151t\03g3116\8151-063.050 -- Channel A

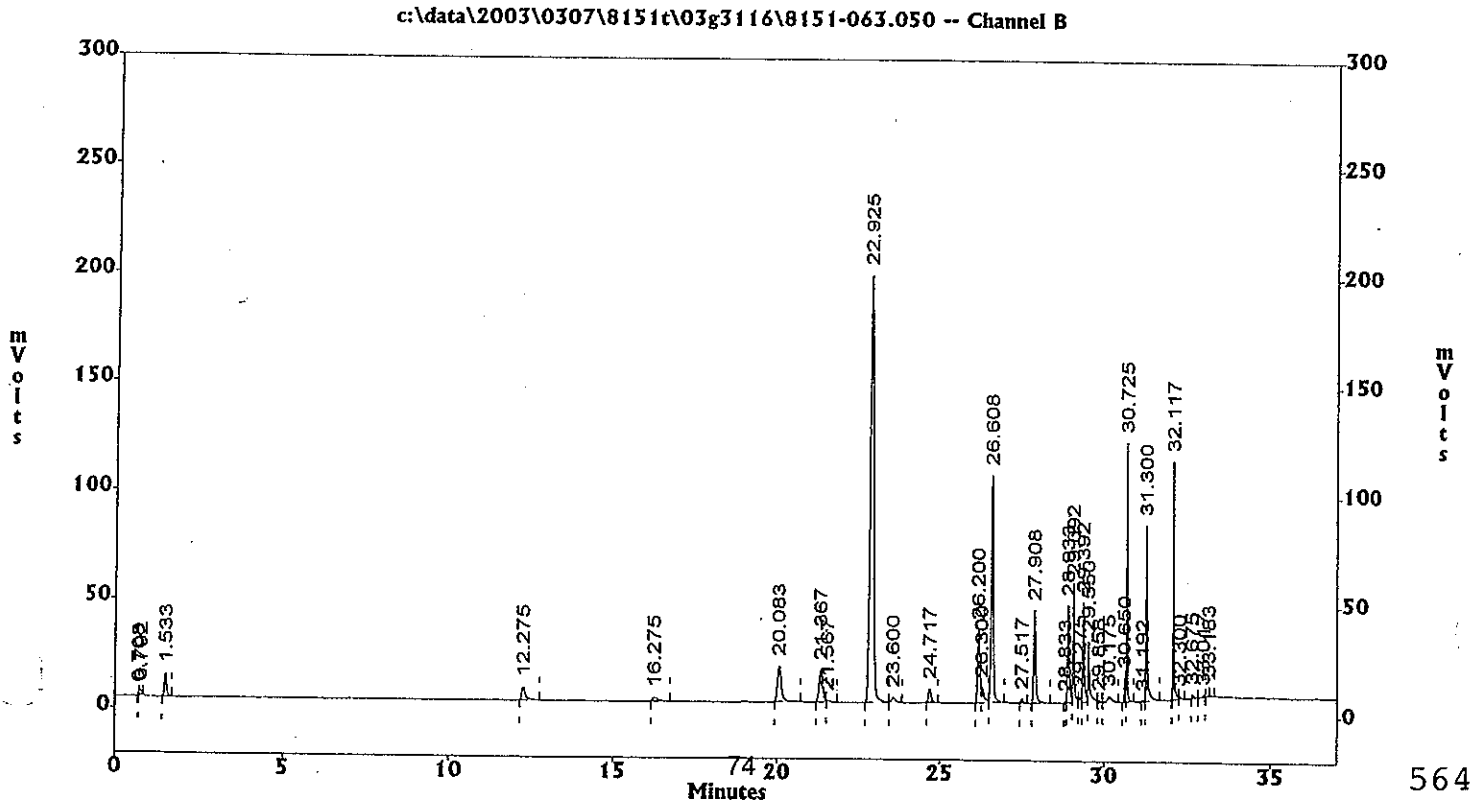


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.050
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 50 ppb GC15411
Acquired : Jul 08, 2003 13:43:06
Printed : Jul 09, 2003 09:52:02
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.53	47687	10580	0.159073	50.00
4	2	3,5-Di-Cl-Bz acid	12.27	47074	5952	0.140157	50.00
5	3	4-Nitrophenol	16.27	19284	1730	0.073447	50.00
6	4	DCAA (surr)	20.08	141275	16546	0.085575	250.00
7	5	Dicamba	21.37	116295	14679	0.377820	50.00
8	6	MCPP (ppm)	21.57	5895	839	0.224210	5.00
9	7	DBOB (IS)	22.92	1436921	195548	1.000000	250.00
10	8	MCPA (ppm)	23.60	15105	2308	0.438923	5.00
11	9	Dichloroprop	24.72	34671	6194	0.112632	50.00
12	10	2,4-D (m)	26.20	153530	33501	0.105689	250.00
14	11	Pentachlorphenol	26.61	461924	103812	1.620643	50.00
16	12	Silvex (m)	27.91	184585	42156	0.623829	50.00
18	13	2,4,5-T (m)	28.93	150365	44166	0.541272	50.00
19	14	Dinoseb	29.09	156392	53400	0.496953	50.00
21	15	Chloramben	29.39	141438	45438	0.484770	50.00
22	16	2,4-DB	29.55	106156	27624	0.064394	250.00
25	17	Bentazon	30.65	21565	11001	0.068965	50.00
26	18	DCPA	30.73	233984	118136	0.782016	50.00
28	19	Picloram	31.30	222095	80296	0.820557	50.00
29	20	Acifluorfen	32.12	213389	108544	0.718754	50.00



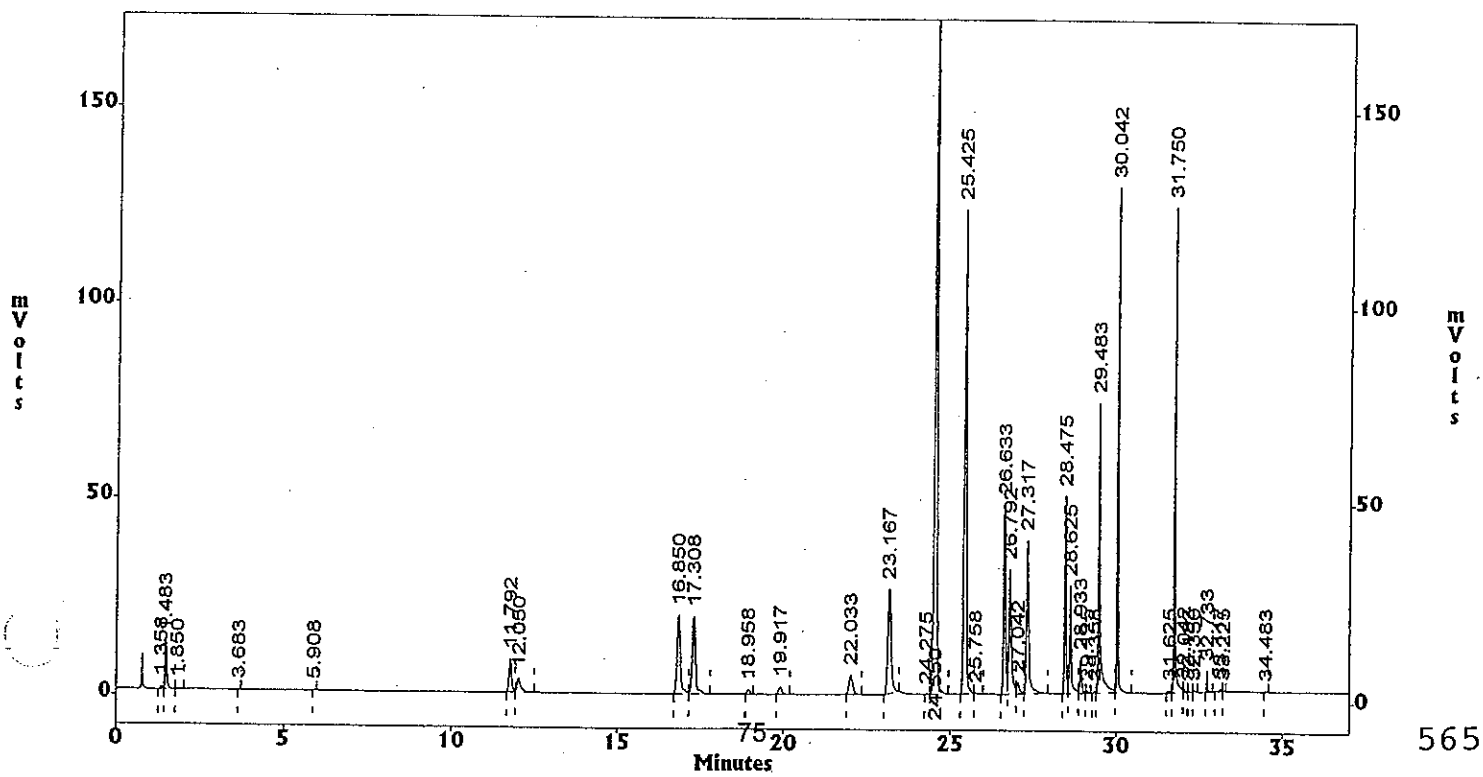
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.100
Method : c:\ezchrom\methods\8151-063.t00
mple ID : 100 ppb GC15412
..cquired : Jul 08, 2003 14:23:38
Printed : Jul 09, 2003 09:53:43
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.48	47140	11894	0.129749	100.00
6	2	3,5-Di-Cl-Bz acid	11.79	47149	8391	0.125046	100.00
7	3	4-Nitrophenol	12.05	27587	3542	0.070732	100.00
8	4	DCAA(Surr)	16.85	140200	19760	0.073885	500.00
9	5	Dicamba	17.31	132576	19526	0.353447	100.00
10	6	MCPP(ppm)	18.96	6270	1046	0.179235	10.00
11	7	MCPA(PPm)	19.92	13068	1784	0.343572	10.00
12	8	Dichloroprop	22.03	37086	4813	0.099712	100.00
13	9	2,4-D (m)	23.17	177723	26403	0.101099	500.00
15	10	DBOB (IS)	24.55	879800	172176	1.000000	250.00
16	11	Pentachlorphenol	25.42	557129	123458	1.555308	100.00
18	12	Silvex (m)	26.63	203296	48039	0.558710	100.00
19	13	Chloramben	26.79	160744	31580	0.444269	100.00
21	14	2,4,5-T (m)	27.32	194053	38776	0.534963	100.00
22	15	Dinoseb	28.48	152758	50095	0.419514	100.00
23	16	2,4-DB	28.63	99151	27216	0.056452	500.00
24	17	Bentazon	28.93	31118	8451	0.079392	100.00
27	18	Picloram	29.48	262275	73722	0.745522	100.00
28	19	DCPA	30.04	280020	128645	0.763057	100.00
30	20	Acifluorfen	31.75	257006	123527	0.710861	100.00

c:\data\2003\0307\8151t\03g3116\8151-063.100 -- Channel A



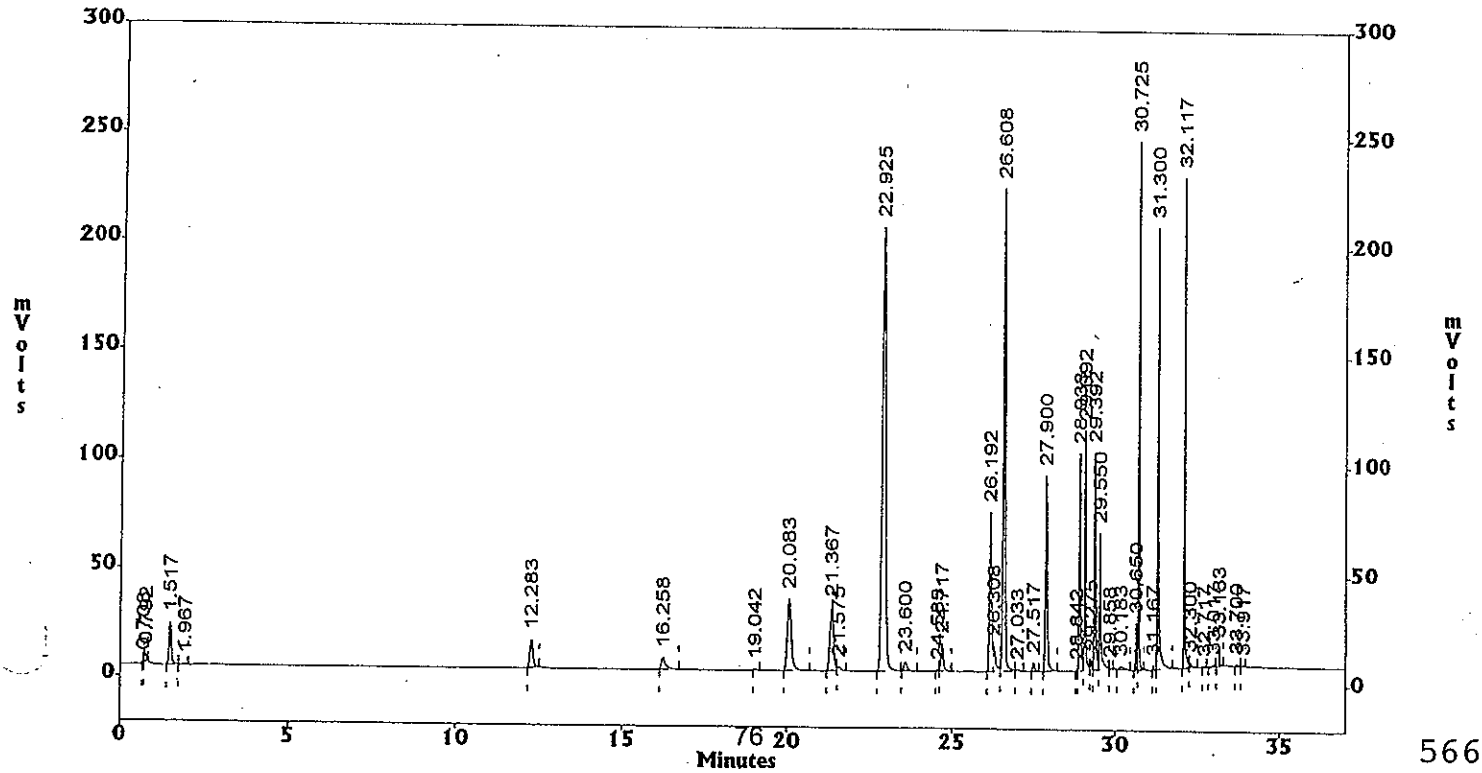
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.100
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 100 ppb GC15412
Acquired : Jul 08, 2003 14:23:38
Printed : Jul 09, 2003 09:53:44
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.52	99292	19556	0.159073	100.00
5	2	3,5-Di-Cl-Bz acid	12.28	83081	12876	0.140157	100.00
6	3	4-Nitrophenol	16.26	45627	5307	0.073447	100.00
8	4	DCAA (surr)	20.08	268486	32944	0.085575	500.00
9	5	Dicamba	21.37	227495	29541	0.377820	100.00
10	6	MCPP (ppm)	21.58	12290	1831	0.224210	10.00
11	7	DBOB (IS)	22.92	1454235	203402	1.000000	250.00
12	8	MCPA (ppm)	23.60	27990	4172	0.438923	10.00
14	9	Dichloroprop	24.72	71523	12834	0.112632	100.00
15	10	2,4-D (m)	26.19	319779	73285	0.105689	500.00
17	11	Pentachlorphenol	26.61	955279	221250	1.620643	100.00
20	12	Silvex (m)	27.90	367481	89935	0.623829	100.00
22	13	2,4,5-T (m)	28.93	309554	99648	0.541272	100.00
23	14	Dinoseb	29.09	301615	110059	0.496953	100.00
25	15	Chloramben	29.39	282827	99683	0.484770	100.00
26	16	2,4-DB	29.55	190305	62721	0.064394	500.00
29	17	Bentazon	30.65	41800	21494	0.068965	100.00
30	18	DCPA	30.73	469123	242162	0.782016	100.00
32	19	Picloram	31.30	480204	202458	0.820557	100.00
33	20	Acifluorfen	32.12	426097	224695	0.718754	100.00

c:\data\2003\0307\8151t\03g3116\8151-063.100 -- Channel B



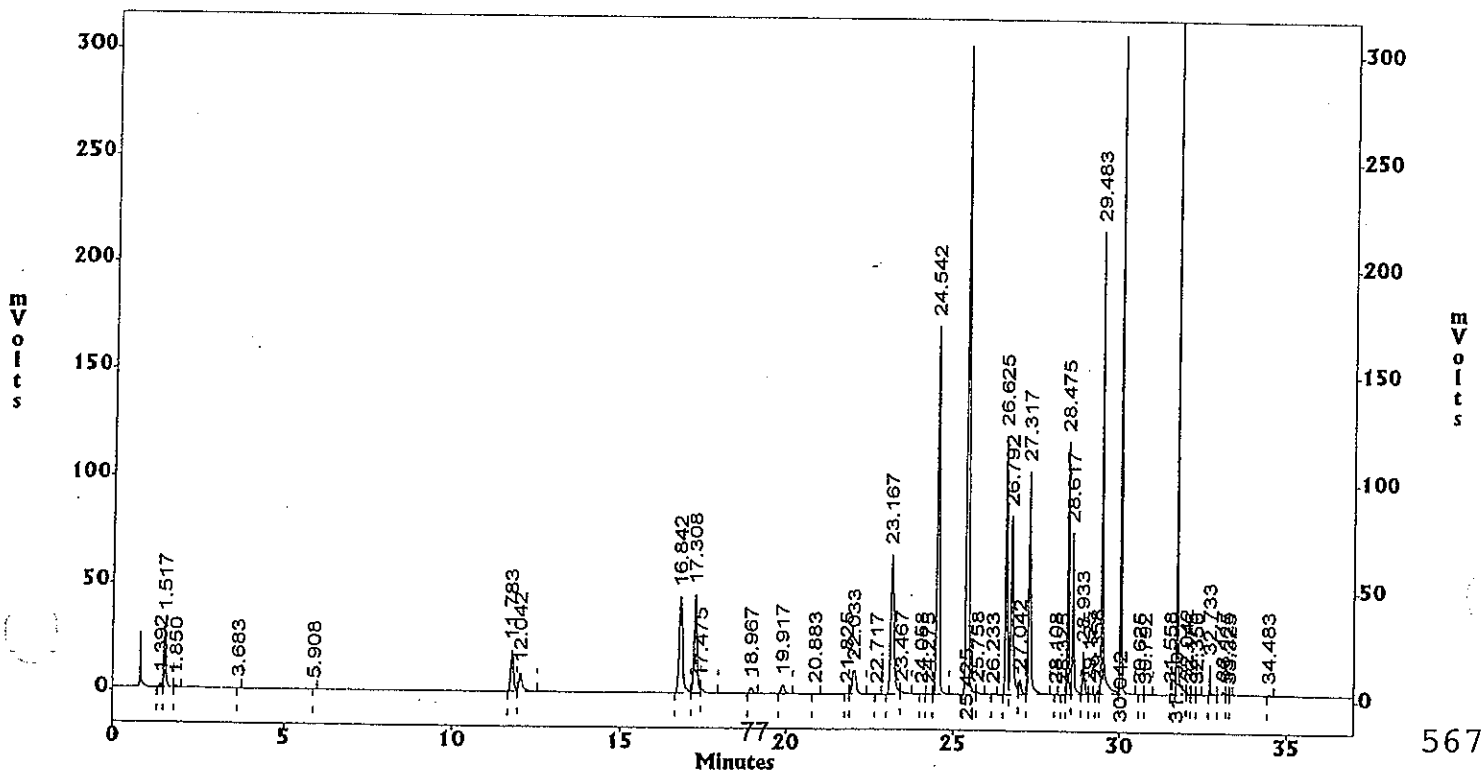
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.250
Method : c:\ezchrom\methods\8151-063.t00
mple ID : 250 ppb GC15413
cquired : Jul 08, 2003 15:04:06
Printed : Jul 09, 2003 09:54:03
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.52	111507	30647	0.129749	250.00
6	2	3,5-Di-Cl-Bz acid	11.78	106487	19152	0.125046	250.00
7	3	4-Nitrophenol	12.04	59855	8458	0.070732	250.00
8	4	DCAA(Surr)	16.84	311696	44867	0.073885	1250.00
9	5	Dicamba	17.31	297688	45968	0.353447	250.00
11	6	MCPP(ppm)	18.97	16652	2613	0.179235	25.00
12	7	MCPA(PPm)	19.92	28307	3992	0.343572	25.00
15	8	Dichloroprop	22.03	85793	11122	0.099712	250.00
17	9	2,4-D (m)	23.17	434435	65089	0.101099	1250.00
21	10	DBOB (IS)	24.54	861640	171392	1.000000	250.00
22	11	Pentachlorphenol	25.42	1357219	302645	1.555308	250.00
25	12	Silvex (m)	26.63	485101	120370	0.558710	250.00
26	13	Chloramben	26.79	388907	83104	0.444269	250.00
28	14	2,4,5-T (m)	27.32	467517	103836	0.534963	250.00
31	15	Dinoseb	28.48	359577	117811	0.419514	250.00
32	16	2,4-DB	28.62	242309	75397	0.056452	1250.00
33	17	Bentazon	28.93	68006	19876	0.079392	250.00
36	18	Picloram	29.48	662608	215572	0.745522	250.00
37	19	DCPA	30.04	649572	307144	0.763057	250.00
41	20	Acifluorfen	31.75	599456	313487	0.710861	250.00

c:\data\2003\0307\8151t\03g3116\8151-063.250 -- Channel A



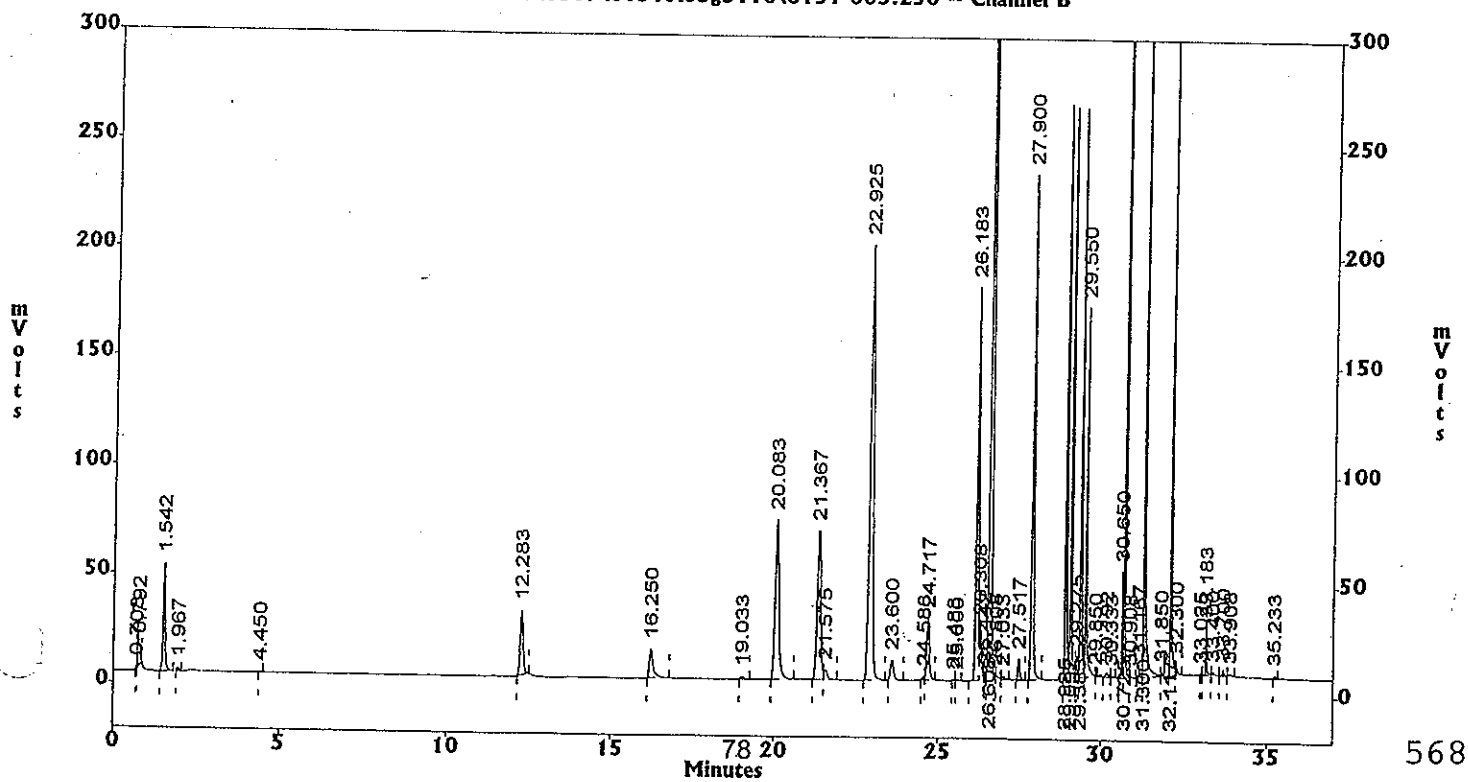
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.250
hod : c:\ezchrom\methods\8151-063.t00
Sample ID : 250 ppb GC15413
Acquired : Jul 08, 2003 15:04:06
Printed : Jul 09, 2003 09:54:03
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.54	221295	49146	0.159073	250.00
6	2	3,5-Di-Cl-Bz acid	12.28	185609	29476	0.140157	250.00
7	3	4-Nitrophenol	16.25	109019	13114	0.073447	250.00
9	4	DCAA (surr)	20.08	585422	73019	0.085575	1250.00
10	5	Dicamba	21.37	525325	68102	0.377820	250.00
11	6	MCPP (ppm)	21.58	33925	4570	0.224210	25.00
12	7	DBOB (IS)	22.92	1410839	199087	1.000000	250.00
13	8	MCPA (ppm)	23.60	59917	9131	0.438923	25.00
15	9	Dichloroprop	24.72	156758	28338	0.112632	250.00
18	10	2,4-D (m)	26.18	749046	179986	0.105689	1250.00
21	11	Pentachlorphenol	26.61	2314261	552841	1.620643	250.00
25	12	Silvex (m)	27.90	881935	231091	0.623829	250.00
26	13	2,4,5-T (m)	28.92	776929	262803	0.541272	250.00
27	14	Dinoseb	29.09	688129	261422	0.496953	250.00
29	15	Chloramben	29.38	689128	260281	0.484770	250.00
30	16	2,4-DB	29.55	438952	168792	0.064394	1250.00
34	17	Bentazon	30.65	95894	48529	0.068965	250.00
35	18	DCPA	30.73	1115386	569031	0.782016	250.00
38	19	Picloram	31.30	1211421	575518	0.820557	250.00
40	20	Acifluorfen	32.12	1015845	566746	0.718754	250.00

c:\data\2003\0307\8151t\03g3116\8151-063.250 -- Channel B



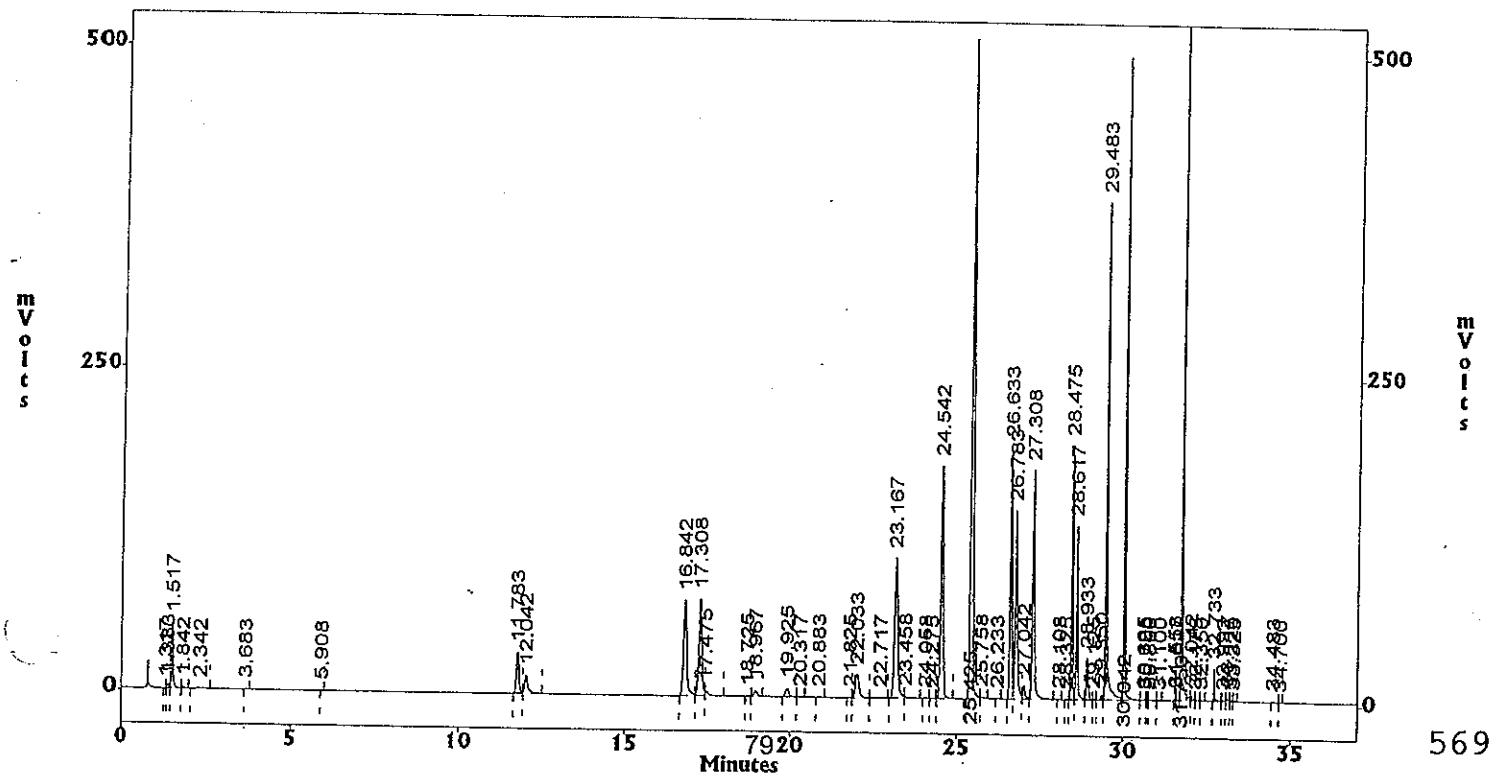
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.400
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 400 ppb GC15414
Acquired : Jul 08, 2003 15:44:37
Printed : Jul 09, 2003 09:54:24
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.52	180885	50176	0.129749	400.00
8	2	3,5-Di-Cl-Bz acid	11.78	169319	31046	0.125046	400.00
9	3	4-Nitrophenol	12.04	94083	13754	0.070732	400.00
10	4	DCAA(Surr)	16.84	492855	72706	0.073885	2000.00
11	5	Dicamba	17.31	477515	73633	0.353447	400.00
14	6	MCPP(ppm)	18.97	27817	4229	0.179235	40.00
15	7	MCPA(PPm)	19.92	44430	6398	0.343572	40.00
19	8	Dichloroprop	22.03	135384	17620	0.099712	400.00
21	9	2,4-D (m)	23.17	704046	107122	0.101099	2000.00
25	10	DBOB (IS)	24.54	911421	178623	1.000000	250.00
26	11	Pentachlorphenol	25.42	2233200	511384	1.555308	400.00
29	12	Silvex (m)	26.63	788495	193780	0.558710	400.00
30	13	Chloramben	26.78	632401	144503	0.444269	400.00
32	14	2,4,5-T (m)	27.31	763039	175693	0.534963	400.00
35	15	Dinoseb	28.48	585644	195316	0.419514	400.00
36	16	2,4-DB	28.62	406187	132800	0.056452	2000.00
37	17	Bentazon	28.93	109324	31397	0.079392	400.00
40	18	Picloram	29.48	1110009	384314	0.745522	400.00
41	19	DCPA	30.04	1060684	497358	0.763057	400.00
48	20	Acifluorfen	31.75	973633	522248	0.710861	400.00

c:\data\2003\0307\8151t\03g3116\8151-063.400 -- Channel A

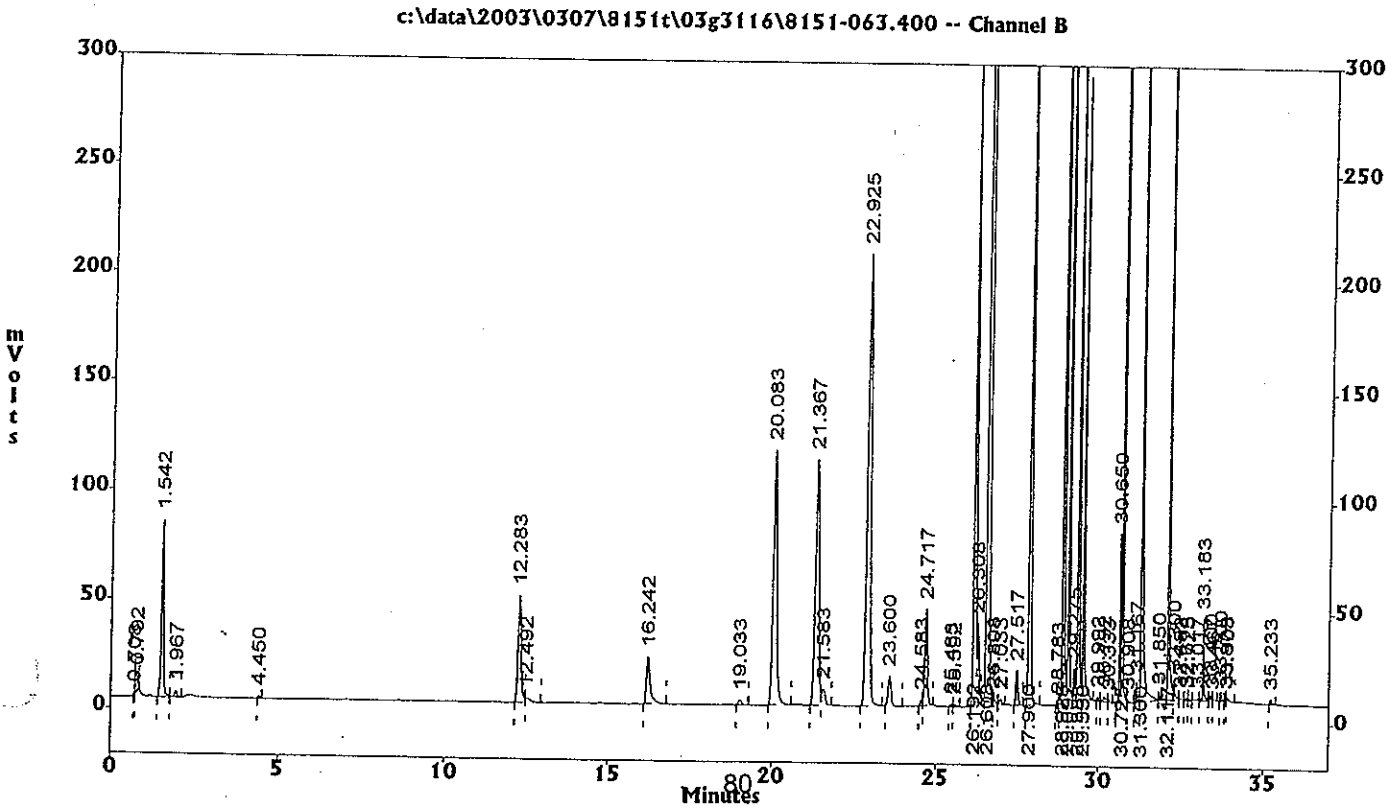


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.400
hod : c:\ezchrom\methods\8151-063.t00
Sample ID : 400 ppb GC15414
Acquired : Jul 08, 2003 15:44:37
Printed : Jul 09, 2003 09:54:25
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.54	352864	80925	0.159073	400.00
6	2	3,5-Di-Cl-Bz acid	12.28	311223	48669	0.140157	400.00
8	3	4-Nitrophenol	16.24	170740	21313	0.073447	400.00
10	4	DCAA (surr)	20.08	912229	116420	0.085575	2000.00
11	5	Dicamba	21.37	846506	112210	0.377820	400.00
12	6	MCPP (ppm)	21.58	54474	7343	0.224210	40.00
13	7	DBOB (IS)	22.92	1476649	206767	1.000000	250.00
14	8	MCPA (ppm)	23.60	90846	13604	0.438923	40.00
16	9	Dichloroprop	24.72	244822	44054	0.112632	400.00
19	10	2,4-D (m)	26.19	1199815	292645	0.105689	2000.00
21	11	Pentachlorphenol	26.61	3785564	919616	1.620643	400.00
25	12	Silvex (m)	27.90	1433882	376696	0.623829	400.00
27	13	2,4,5-T (m)	28.92	1288065	456034	0.541272	400.00
28	14	Dinoseb	29.09	1100133	425901	0.496953	400.00
30	15	Chloramben	29.38	1123133	439395	0.484770	400.00
31	16	2,4-DB	29.55	704983	285749	0.064394	2000.00
35	17	Bentazon	30.65	152359	77369	0.068965	400.00
36	18	DCPA	30.73	1796580	926678	0.782016	400.00
39	19	Picloram	31.30	1987925	997448	0.820557	400.00
41	20	Acifluorfen	32.12	1676601	933496	0.718754	400.00



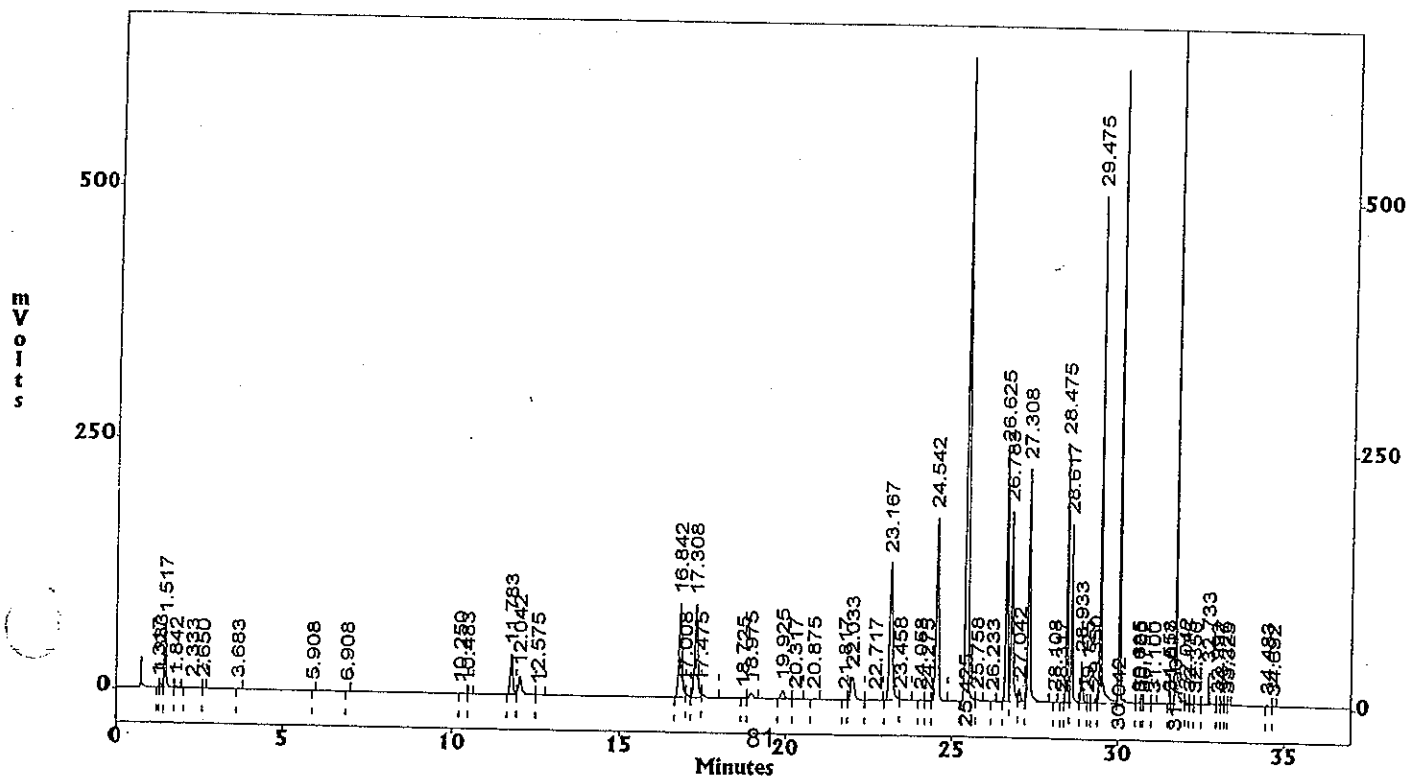
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.500
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 500 ppb GC15415
Acquired : Jul 08, 2003 16:25:05
Printed : Jul 09, 2003 09:54:53
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.52	230626	62723	0.129749	500.00
12	2	3,5-Di-Cl-Bz acid	11.78	211093	38670	0.125046	500.00
13	3	4-Nitrophenol	12.04	118863	17623	0.070732	500.00
15	4	DCAA(Surr)	16.84	600531	92330	0.073885	2500.00
17	5	Dicamba	17.31	606524	91668	0.353447	500.00
20	6	MCPP(ppm)	18.98	35558	5313	0.179235	50.00
21	7	MCPA(PPm)	19.92	55967	8053	0.343572	50.00
25	8	Dichloroprop	22.03	168226	21969	0.099712	500.00
27	9	2,4-D (m)	23.17	882175	136167	0.101099	2500.00
31	10	DBOB (IS)	24.54	916229	181019	1.000000	250.00
32	11	Pentachlorphenol	25.42	2827312	640370	1.555308	500.00
35	12	Silvex (m)	26.63	992513	248083	0.558710	500.00
36	13	Chloramben	26.78	795341	188278	0.444269	500.00
38	14	2,4,5-T (m)	27.31	957231	230649	0.534963	500.00
41	15	Dinoseb	28.48	735923	256290	0.419514	500.00
42	16	2,4-DB	28.62	519471	176817	0.056452	2500.00
43	17	Bentazon	28.93	135337	39774	0.079392	500.00
46	18	Picloram	29.48	1403005	503616	0.745522	500.00
47	19	DCPA	30.04	1324471	629277	0.763057	500.00
54	20	Acifluorfen	31.75	1229730	670291	0.710861	500.00

c:\data\2003\0307\8151t\03g3116\8151-063.500 -- Channel A

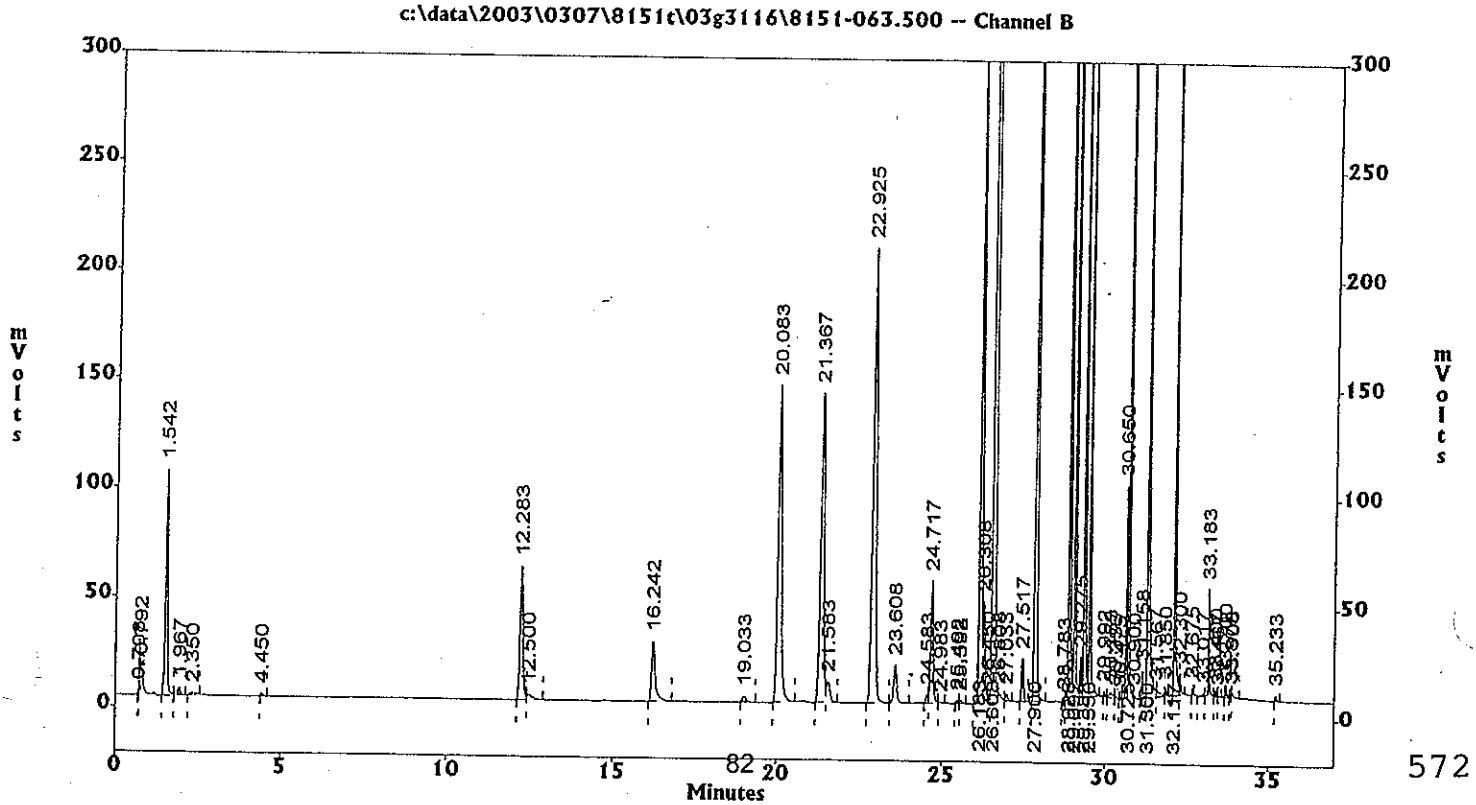


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.500
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 500 ppb GC15415
Acquired : Jul 08, 2003 16:25:05
Printed : Jul 09, 2003 09:54:54
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.54	447571	102906	0.159073	500.00
7	2	3,5-Di-Cl-Bz acid	12.28	384015	60487	0.140157	500.00
9	3	4-Nitrophenol	16.24	211734	26979	0.073447	500.00
11	4	DCAA (surr)	20.08	1130245	144636	0.085575	2500.00
12	5	Dicamba	21.37	1064283	141090	0.377820	500.00
13	6	MCPP (ppm)	21.58	68551	9200	0.224210	50.00
14	7	DBOB (IS)	22.92	1467149	207922	1.000000	250.00
15	8	MCPA (ppm)	23.61	111101	17309	0.438923	50.00
17	9	Dichloroprop	24.72	307597	55460	0.112632	500.00
21	10	2,4-D (m)	26.18	1524385	366869	0.105689	2500.00
24	11	Pentachlorphenol	26.61	4727257	1076172	1.620643	500.00
28	12	Silvex (m)	27.90	1799010	478563	0.623829	500.00
30	13	2,4,5-T (m)	28.92	1628869	575104	0.541272	500.00
31	14	Dinoseb	29.09	1375241	526940	0.496953	500.00
33	15	Chloramben	29.38	1413316	577338	0.484770	500.00
34	16	2,4-DB	29.55	891429	383391	0.064394	2500.00
39	17	Bentazon	30.65	192112	97264	0.068965	500.00
40	18	DCPA	30.73	2166747	1065193	0.782016	500.00
43	19	Picloram	31.30	2360325	1073038	0.820557	500.00
16	20	Acifluorfen	32.12	2021964	1070986	0.718754	500.00



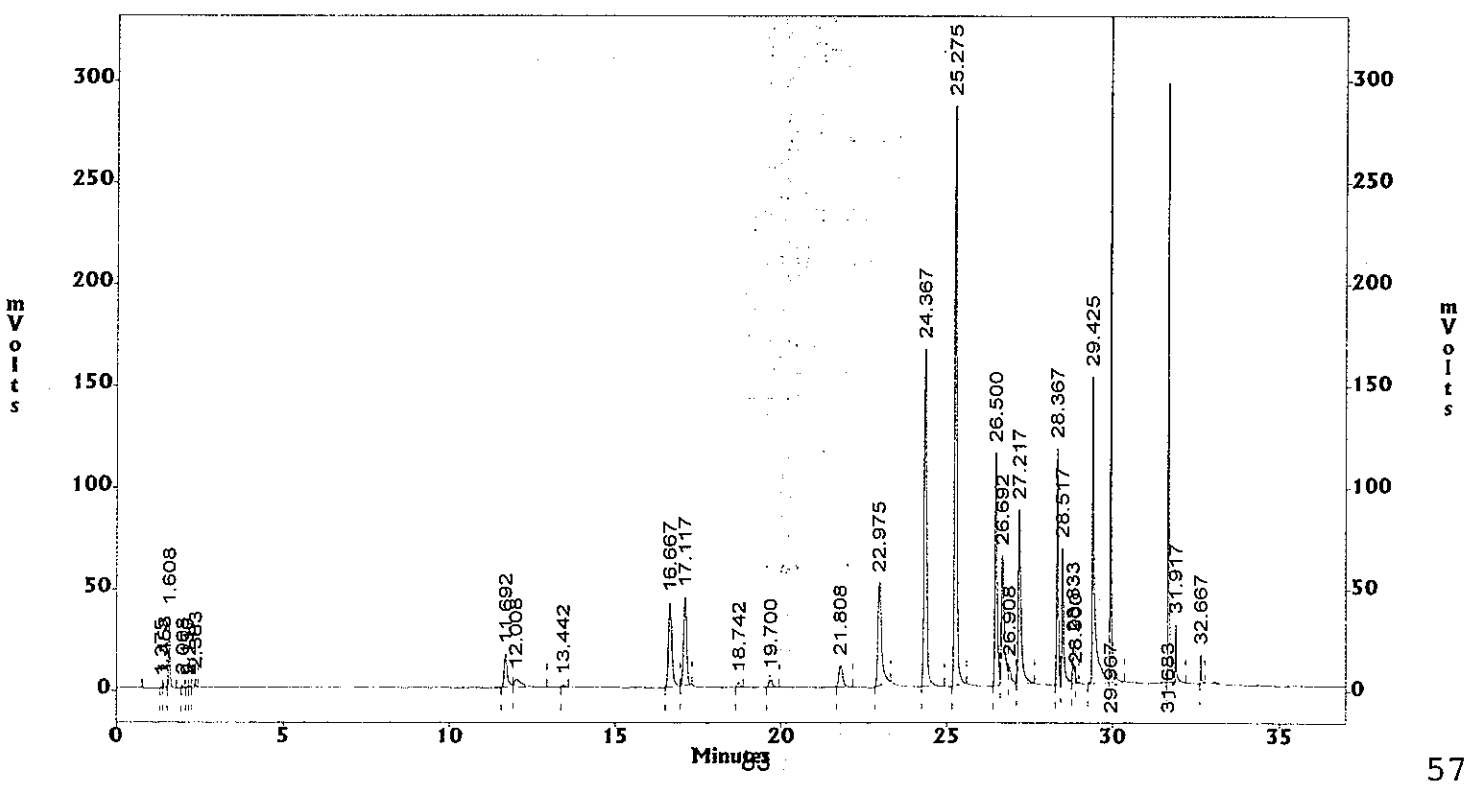
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##04G3146,S GC16249
Acquired : Aug 09, 2004 16:52:09
Printed : Aug 13, 2004 09:47:32
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.61	99412	35681	0.129749	218.91
8	2	3,5-Di-Cl-Bz acid	11.69	108924	16520	0.125046	248.87
9	3	4-Nitrophenol	12.01	63825	4244	0.070732	257.81
11	4	DCAA(Surr)	16.67	295190	41828	0.073885	1141.48
12	5	Dicamba	17.12	280632	43467	0.353447	226.85
13	6	MCPP(ppm)	18.74	15498	2470	0.179235	24.70
14	7	MCPA(PPm)	19.70	26151	3824	0.343572	21.75
15	8	Dichloroprop	21.81	82477	10472	0.099712	236.32
16	9	2,4-D (m)	22.98	389079	50784	0.101099	1099.54
17	10	DBOB (IS)	24.37	875018	166039	1.000000	250.00
18	11	Pentachlorphenol	25.27	1349005	285070	1:555308	247.81
19	12	Silvex (m)	26.50	510742	114847	0.558710	261.18
20	13	Chloramben	26.69	388407	64131	0.444269	249.78
22	14	2,4,5-T (m)	27.22	480452	86016	0.534963	256.60
23	15	Dinoseb	28.37	369508	116305	0.419514	251.65
24	16	2,4-DB	28.52	255446	67183	0.056452	1292.84
25	17	Bentazon	28.83	65330	20224	0.079392	235.10
27	18	Picloram	29.42	713398	151061	0.745522	273.40
28	19	DCPA	29.97	752018	327321	0.763057	281.58
29	20	Acifluorfen	31.68	647708	294354	0.710861	260.33

c:\data\2004\0408\8151t\04g3146\3146g.q01 -- Channel A

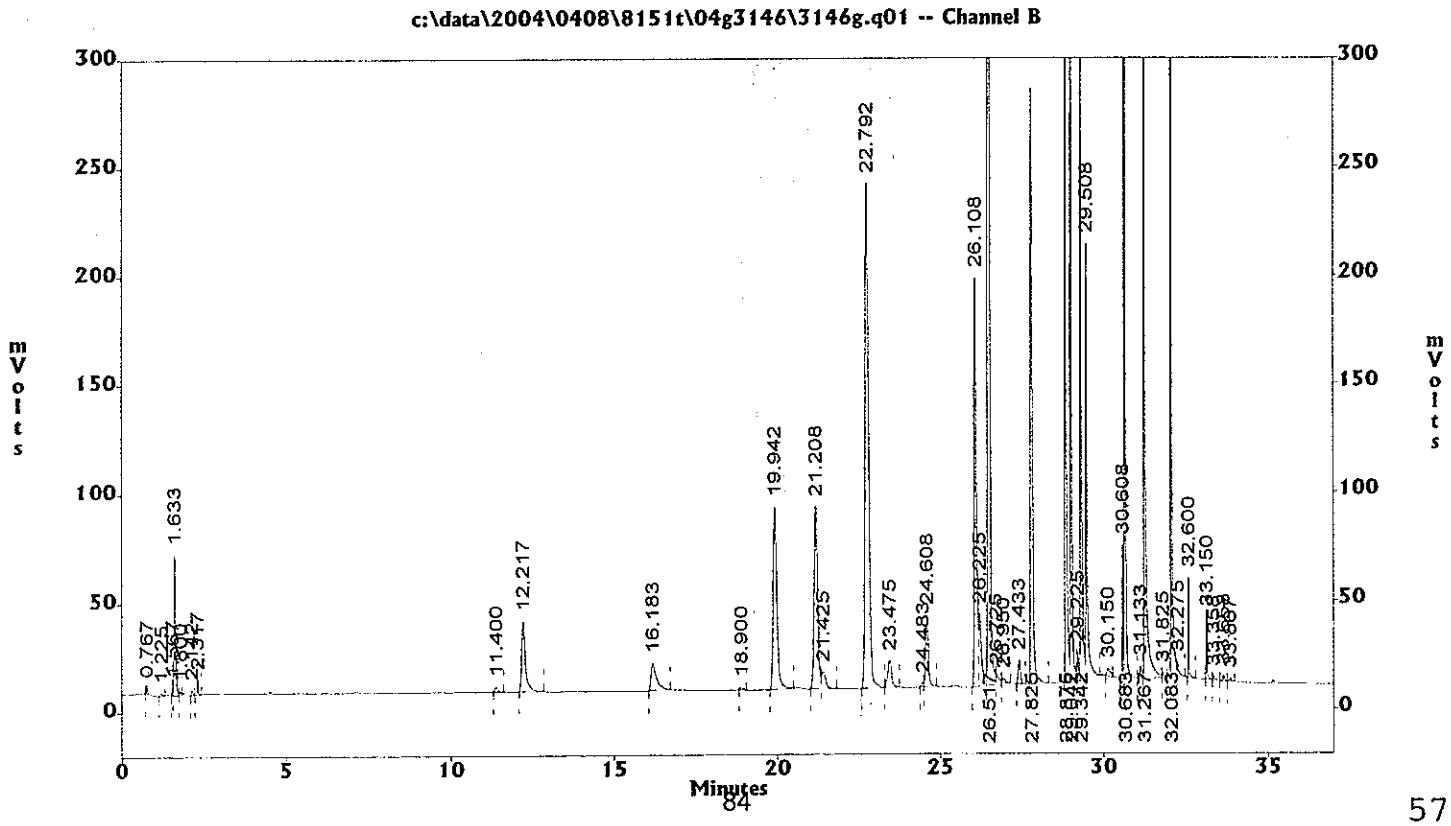


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##04G3146,S GC16249
Acquired : Aug 09, 2004 16:52:09
Printed : Aug 13, 2004 09:47:33
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
4	1	Dalapon	1.63	225117	64862	0.159073	202.65
9	2	3,5-Di-Cl-Bz acid	12.22	258022	32524	0.140157	263.62
10	3	4-Nitrophenol	16.18	143347	12773	0.073447	279.48
12	4	DCAA (surr)	19.94	683508	84109	0.085575	1143.75
13	5	Dicamba	21.21	630734	83791	0.377820	239.06
14	6	MCPP (ppm)	21.42	67825	7739	0.224210	43.32
15	7	DBOB (IS)	22.79	1745832	232489	1.000000	250.00
16	8	MCPA (ppm)	23.48	97543	12478	0.438923	31.82
18	9	Dichloroprop	24.61	189505	33175	0.112632	240.93
19	10	2,4-D (m)	26.11	859351	188574	0.105689	1164.34
21	11	Pentachlorphenol	26.52	2771197	635166	1.620643	244.86
25	12	Silvex (m)	27.83	1120262	274936	0.623829	257.15
26	13	2,4,5-T (m)	28.88	965571	304613	0.541272	255.45
27	14	Dinoseb	29.04	865844	298221	0.496953	249.50
29	15	Chloramben	29.34	874578	296394	0.484770	258.35
30	16	2,4-DB	29.51	590089	200284	0.064394	1312.22
32	17	Bentazon	30.61	121108	61909	0.068965	251.47
33	18	DCPA	30.68	1554268	771833	0.782016	284.61
35	19	Picloram	31.27	1588141	627528	0.820557	277.15
37	20	Acifluorfen	32.08	1320803	633166	0.718754	263.15



QC Check Standard Report
Batch : c:\ezchrom\sequence\2004\04g3946.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0408\8151t\04g3146\3146g.q01
ID: ##04G3146,S GC16249 -- Aug 09, 2004 16:52:09
Printed: Aug 13, 2004 9:48:09

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	218.905	12.438	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	248.873	0.451	15.000	Passed
3 4-Nitrophenol	250.000	257.810	3.124	15.000	Passed
4 DCAA (Surr)	1200.000	1141.476	4.877	15.000	Passed
5 Dicamba	250.000	226.849	9.261	15.000	Passed
6 MCPP (ppm)	25.000	24.704	1.182	15.000	Passed
7 MCPA (PPm)	25.000	21.747	13.013	15.000	Passed
8 Dichloroprop	250.000	236.324	5.471	15.000	Passed
9 2,4-D (m)	1250.000	1099.543	12.037	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	247.811	0.876	15.000	Passed
12 Silvex (m)	250.000	261.179	4.472	15.000	Passed
13 Chloramben	250.000	249.784	0.087	15.000	Passed
14 2,4,5-T (m)	250.000	256.596	2.638	15.000	Passed
15 Dinoseb	250.000	251.652	0.661	15.000	Passed
16 2,4-DB	1250.000	1292.840	3.427	15.000	Passed
17 Bentazon	250.000	235.103	5.959	15.000	Passed
18 Picloram	250.000	273.397	9.359	15.000	Passed
19 DCPA	250.000	281.575	12.630	15.000	Passed
20 Acifluorfen	250.000	260.326	4.130	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	202.651	18.940	15.000	Failed
2 3,5-Di-Cl-Bz acid	250.000	263.621	5.448	15.000	Passed
3 4-Nitrophenol	250.000	279.479	11.792	15.000	Passed
4 DCAA (surr)	1200.000	1143.753	4.687	15.000	Passed
5 Dicamba	250.000	239.056	4.378	15.000	Passed
6 MCPP (ppm)	25.000	43.318	73.274	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	31.823	27.293	15.000	Failed
9 Dichloroprop	250.000	240.933	3.627	15.000	Passed
10 2,4-D (m)	1250.000	1164.335	6.853	15.000	Passed
11 Pentachlorphenol	250.000	244.860	2.056	15.000	Passed
12 Silvex (m)	250.000	257.153	2.861	15.000	Passed
13 2,4,5-T (m)	250.000	255.450	2.180	15.000	Passed
14 Dinoseb	250.000	249.495	0.202	15.000	Passed
15 Chloramben	250.000	258.345	3.338	15.000	Passed

16 2,4-DB	1250.000	1312.224	4.978	15.000	Passed
17 Bentazon	250.000	251.467	0.587	15.000	Passed
18 DCPA	250.000	284.609	13.843	15.000	Passed
19 Picloram	250.000	277.152	10.861	15.000	Passed
20 Acifluorfen	250.000	263.145	5.258	15.000	Passed

Signature _____

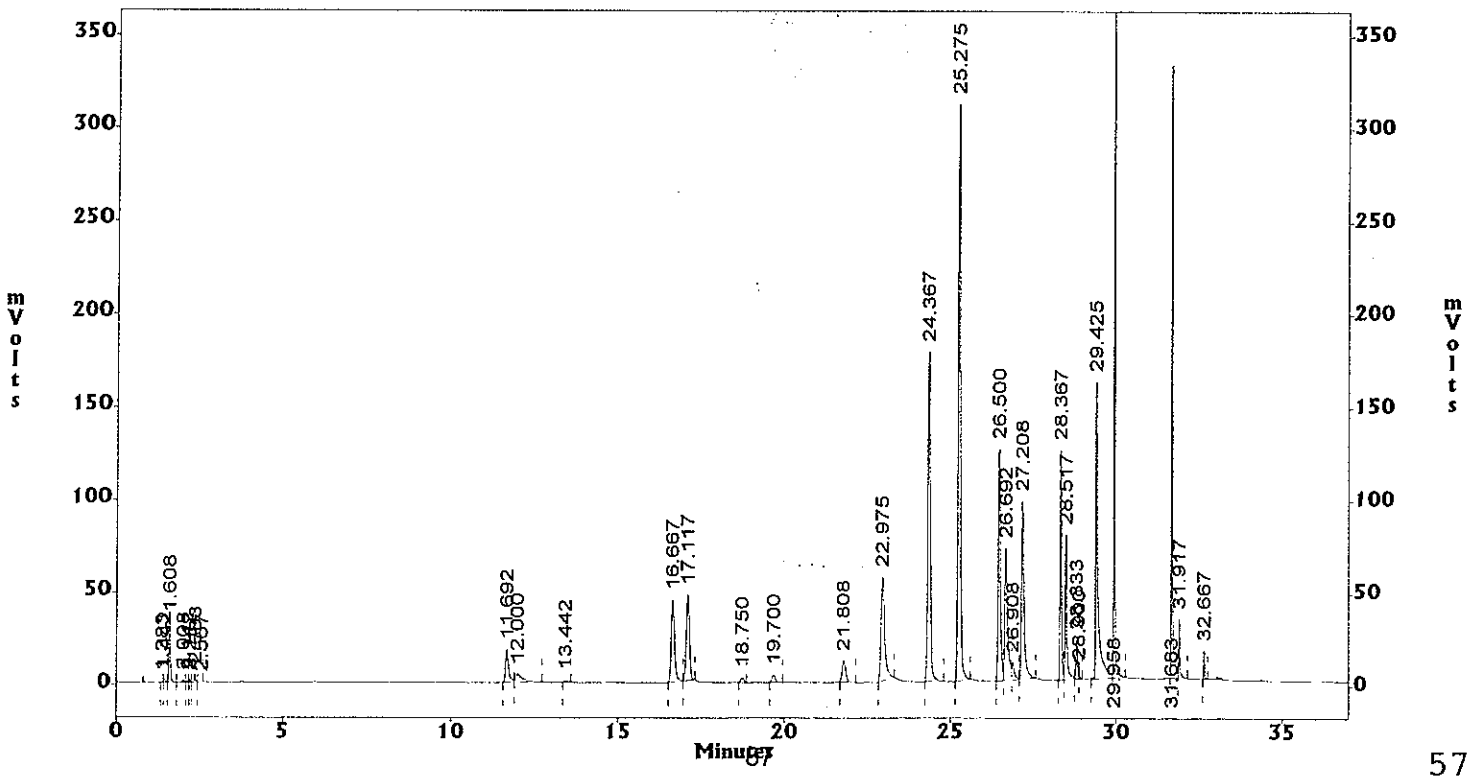
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q02
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ccv GC16249
Acquired : Aug 10, 2004 00:20:59
Printed : Aug 10, 2004 16:34:10
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.61	106272	32248	0.129749	219.49
9	2	3,5-Di-Cl-Bz acid	11.69	114526	17739	0.125046	245.43
10	3	4-Nitrophenol	12.00	64447	4739	0.070732	244.17
12	4	DCAA(Surr)	16.67	312847	44514	0.073885	1134.67
13	5	Dicamba	17.12	298153	46438	0.353447	226.05
14	6	MCPP(ppm)	18.75	16577	2644	0.179235	24.78
15	7	MCPA(PPm)	19.70	27739	4054	0.343572	21.64
16	8	Dichloroprop	21.81	86858	11304	0.099712	233.43
17	9	2,4-D (m)	22.98	418497	56371	0.101099	1109.27
18	10	DBOB (IS)	24.37	932921	177731	1.000000	250.00
19	11	Pentachlorphenol	25.27	1450077	310697	1.555308	249.84
20	12	Silvex (m)	26.50	546384	125135	0.558710	262.06
21	13	Chloramben	26.69	409600	71609	0.444269	247.06
23	14	2,4,5-T (m)	27.21	507421	96235	0.534963	254.18
24	15	Dinoseb	28.37	396248	124426	0.419514	253.11
25	16	2,4-DB	28.52	278155	78604	0.056452	1320.40
26	17	Bentazon	28.83	71200	21442	0.079392	240.32
28	18	Picloram	29.42	735278	160482	0.745522	264.29
29	19	DCPA	29.96	800279	358762	0.763057	281.05
30	20	Acifluorfen	31.68	697294	330282	0.710861	262.86

c:\data\2004\0408\8151t\04g3146\3146g.q02 -- Channel A



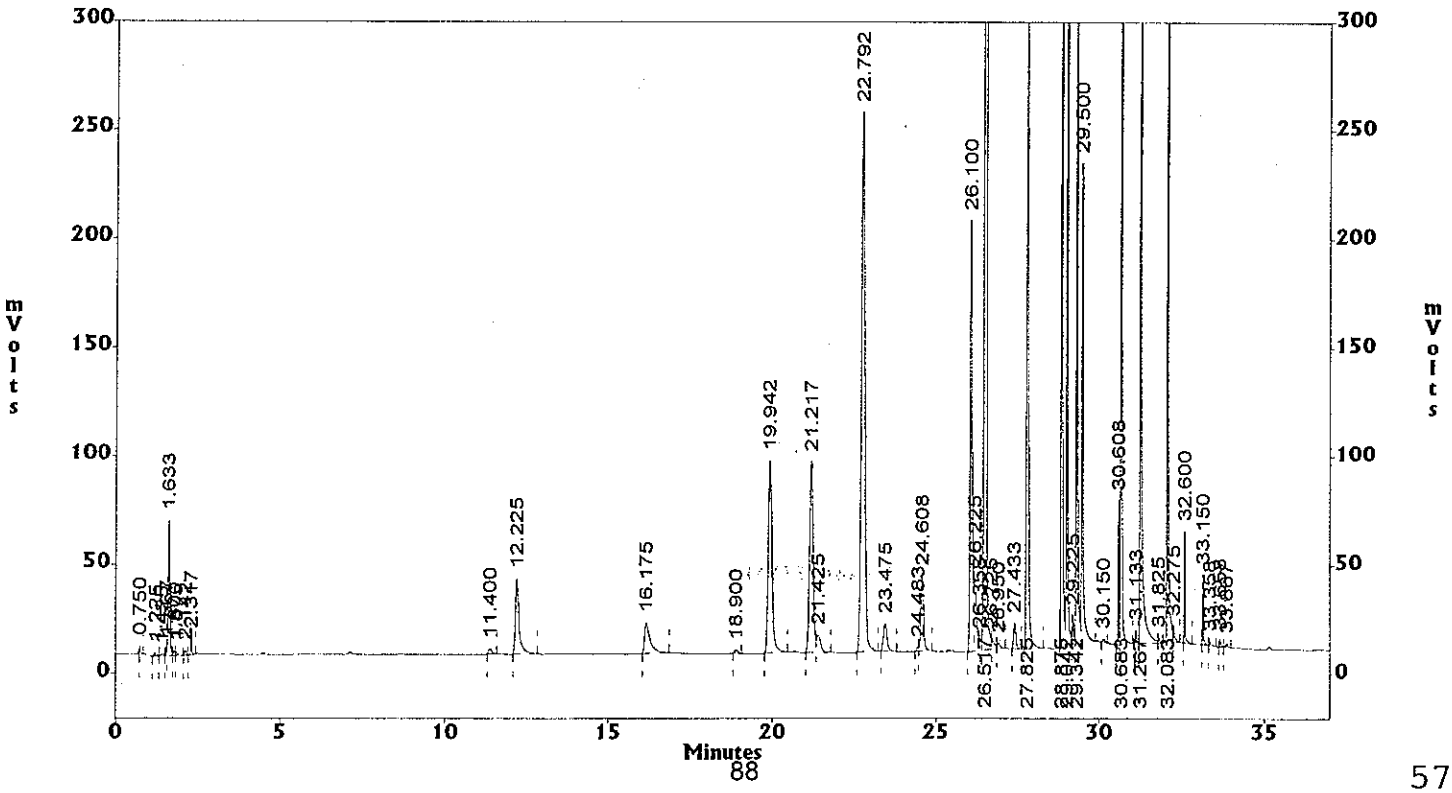
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q02
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ccv GC16249
Acquired : Aug 10, 2004 00:20:59
Printed : Aug 10, 2004 16:34:11
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.63	241677	62131	0.159073	205.09
11	2	3,5-Di-Cl-Bz acid	12.23	272739	34629	0.140157	262.69
12	3	4-Nitrophenol	16.17	163026	14137	0.073447	299.63
14	4	DCAA (surr)	19.94	722513	88748	0.085575	1139.73
15	5	Dicamba	21.22	667237	88014	0.377820	238.40
16	6	MCPP (ppm)	21.42	71756	8135	0.224210	43.20
17	7	DBOB (IS)	22.79	1851980	248440	1.000000	250.00
18	8	MCPA (ppm)	23.48	97884	12715	0.438923	30.10
20	9	Dichloroprop	24.61	201488	34834	0.112632	241.49
21	10	2,4-D (m)	26.10	917687	198663	0.105689	1172.11
24	11	Pentachlorphenol	26.52	2969496	677150	1.620643	247.34
28	12	Silvex (m)	27.83	1194172	290887	0.623829	258.41
29	13	2,4,5-T (m)	28.88	1037695	344009	0.541272	258.80
30	14	Dinoseb	29.04	920804	324002	0.496953	250.12
32	15	Chloramben	29.34	919054	315388	0.484770	255.92
33	16	2,4-DB	29.50	631304	221141	0.064394	1323.41
35	17	Bentazon	30.61	130206	66549	0.068965	254.86
36	18	DCPA	30.68	1674882	865177	0.782016	289.12
38	19	Picloram	31.27	1622248	678844	0.820557	266.88
40	20	Acifluorfen	32.08	1444966	733657	0.718754	271.38

c:\data\2004\0408\8151t\04g3146\3146g.q02 -- Channel B



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3946.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0408\8151t\04g3146\3146g.q02
ID: ccv GC16249 -- Aug 10, 2004 00:20:59
Printed: Aug 10, 2004 16:34:15

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	219.487	12.205	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	245.431	1.828	15.000	Passed
3 4-Nitrophenol	250.000	244.166	2.334	15.000	Passed
4 DCAA (Surr)	1200.000	1134.670	5.444	15.000	Passed
5 Dicamba	250.000	226.053	9.579	15.000	Passed
6 MCPP (ppm)	25.000	24.784	0.863	15.000	Passed
7 MCPA (PPm)	25.000	21.636	13.458	15.000	Passed
8 Dichloroprop	250.000	233.430	6.628	15.000	Passed
9 2,4-D (m)	1250.000	1109.274	11.258	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	249.845	0.062	15.000	Passed
12 Silvex (m)	250.000	262.064	4.825	15.000	Passed
13 Chloramben	250.000	247.064	1.175	15.000	Passed
14 2,4,5-T (m)	250.000	254.179	1.672	15.000	Passed
15 Dinoseb	250.000	253.114	1.246	15.000	Passed
16 2,4-DB	1250.000	1320.398	5.632	15.000	Passed
17 Bentazon	250.000	240.324	3.870	15.000	Passed
18 Picloram	250.000	264.293	5.717	15.000	Passed
19 DCPA	250.000	281.048	12.419	15.000	Passed
20 Acifluorfen	250.000	262.861	5.145	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	205.089	17.964	15.000	Failed
2 3,5-Di-Cl-Bz acid	250.000	262.686	5.074	15.000	Passed
3 4-Nitrophenol	250.000	299.629	19.852	15.000	Failed
4 DCAA (surr)	1200.000	1139.726	5.023	15.000	Passed
5 Dicamba	250.000	238.396	4.642	15.000	Passed
6 MCPP (ppm)	25.000	43.202	72.809	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	30.104	20.417	15.000	Failed
9 Dichloroprop	250.000	241.486	3.406	15.000	Passed
10 2,4-D (m)	1250.000	1172.110	6.231	15.000	Passed
11 Pentachlorphenol	250.000	247.343	1.063	15.000	Passed
12 Silvex (m)	250.000	258.407	3.363	15.000	Passed
13 2,4,5-T (m)	250.000	258.796	3.519	15.000	Passed
14 Dinoseb	250.000	250.124	0.050	15.000	Passed
15 Chloramben	250.000	255.923	2.369	15.000	Passed

16 2,4-DB	1250.000	1323.412	5.873	15.000	Passed
17 Bentazon	250.000	254.862	1.945	15.000	Passed
18 DCPA	250.000	289.116	15.646	15.000	Failed
19 Picloram	250.000	266.878	6.751	15.000	Passed
20 Acifluorfen	250.000	271.382	8.553	15.000	Passed

Signature _____

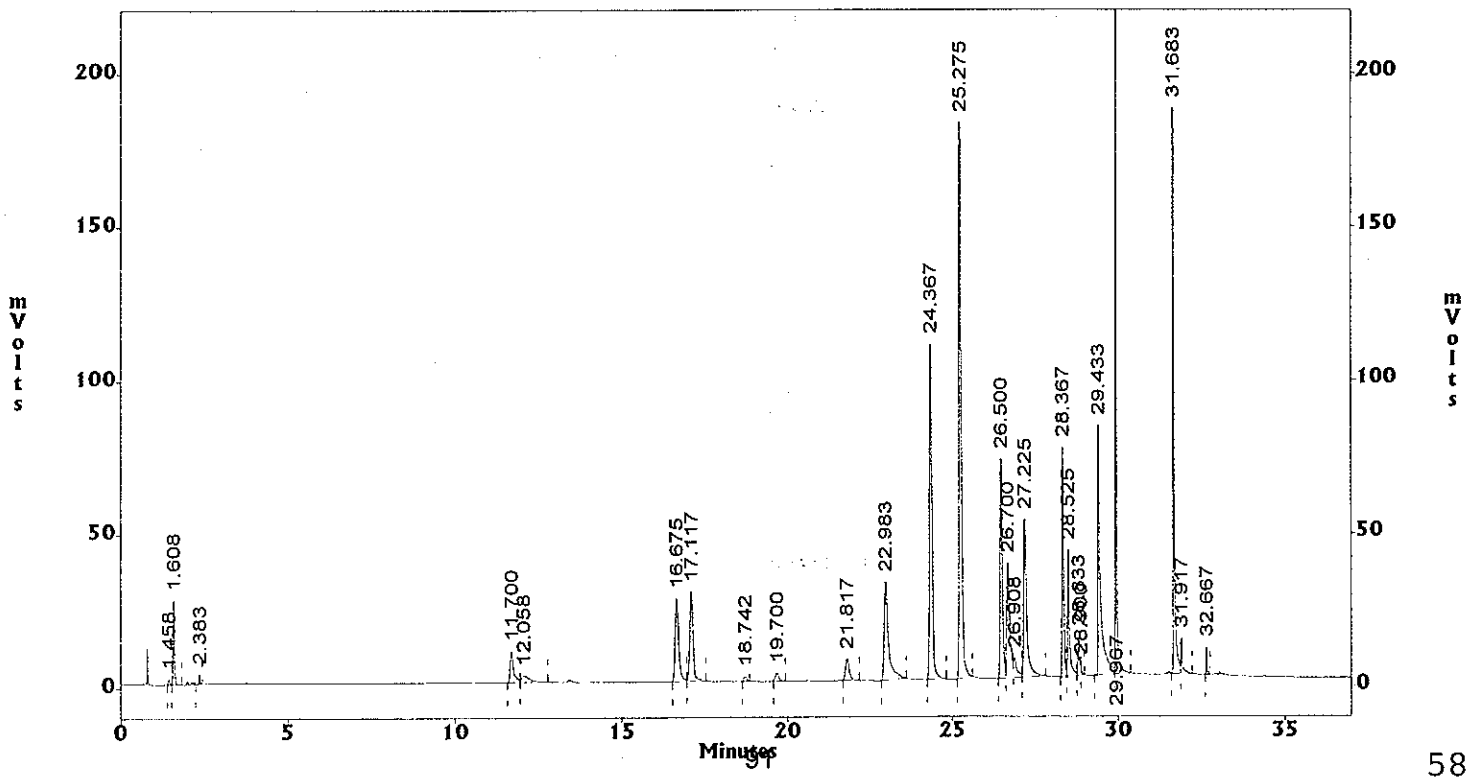
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q03
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ccv GC16249
Acquired : Aug 10, 2004 20:19:33
Printed : Aug 11, 2004 09:46:35
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.61	75464	27188	0.129749	247.25
4	2	3,5-Di-Cl-Bz acid	11.70	73329	10250	0.125046	249.29
5	3	4-Nitrophenol	12.06	38094	2222	0.070732	228.95
6	4	DCAA(Surr)	16.67	203051	27003	0.073885	1168.28
7	5	Dicamba	17.12	201468	29070	0.353447	242.31
8	6	MCPP(ppm)	18.74	9733	1603	0.179235	23.08
9	7	MCPA(PPm)	19.70	17740	2531	0.343572	21.95
10	8	Dichloroprop	21.82	54778	6925	0.099712	233.54
11	9	2,4-D (m)	22.98	290619	31981	0.101099	1222.01
12	10	DBOB (IS)	24.37	588088	109448	1.000000	250.00
13	11	Pentachlorphenol	25.27	869599	181373	1.555308	237.68
14	12	Silvex (m)	26.50	332957	71845	0.558710	253.34
15	13	Chloramben	26.70	241662	37737	0.444269	231.24
17	14	2,4,5-T (m)	27.23	322954	51562	0.534963	256.63
18	15	Dinoseb	28.37	244217	74915	0.419514	247.47
19	16	2,4-DB	28.52	163892	41444	0.056452	1234.18
20	17	Bentazon	28.83	43844	12852	0.079392	234.76
22	18	Picloram	29.43	447240	81673	0.745522	255.02
23	19	DCPA	29.97	500179	216722	0.763057	278.65
24	20	Acifluorfen	31.68	444599	184555	0.710861	265.88

c:\data\2004\0408\8151t\04g3146\3146g.q03 -- Channel A

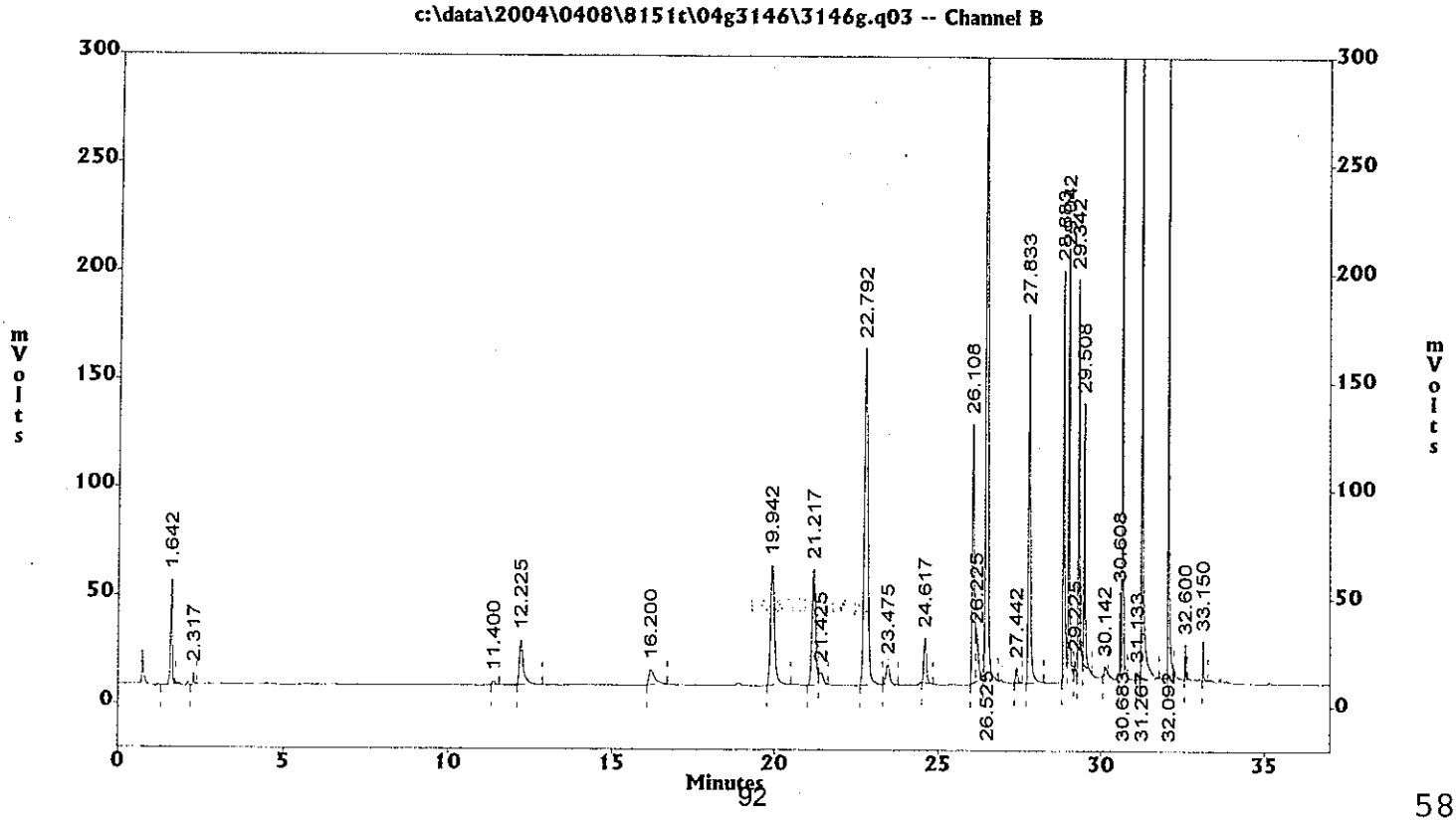


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q03
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ccv GC16249
Acquired : Aug 10, 2004 20:19:33
Printed : Aug 11, 2004 09:46:36
User : Bao Quan Zhang

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
1	1 Dalapon	1.64	177547	48672	0.159073	239.47
4	2 3,5-Di-Cl-Bz acid	12.23	173741	20761	0.140157	265.96
5	3 4-Nitrophenol	16.20	87810	7139	0.073447	256.50
6	4 DCAA (surr)	19.94	466181	55234	0.085575	1168.78
7	5 Dicamba	21.22	415358	53653	0.377820	235.87
8	6 MCPP (ppm)	21.42	49225	5788	0.224210	47.10
9	7 DBOB (IS)	22.79	1165230	156098	1.000000	250.00
10	8 MCPA (ppm)	23.48	75402	9392	0.438923	36.86
11	9 Dichloroprop	24.62	116695	21020	0.112632	222.29
12	10 2,4-D (m)	26.11	547637	120174	0.105689	1111.71
14	11 Pentachlorphenol	26.52	1750380	417772	1.620643	231.73
16	12 Silvex (m)	27.83	727109	170907	0.623829	250.07
17	13 2,4,5-T (m)	28.88	567815	186337	0.541272	225.07
18	14 Dinoseb	29.04	509698	189381	0.496953	220.05
20	15 Chloramben	29.34	513451	181550	0.484770	227.24
21	16 2,4-DB	29.51	312619	121281	0.064394	1041.59
23	17 Bentazon	30.61	70762	38336	0.068965	220.14
24	18 DCPA	30.68	993347	505627	0.782016	272.53
26	19 Picloram	31.27	1013567	369817	0.820557	265.02
27	20 Acifluorfen	32.09	851998	415495	0.718754	254.32



QC Check Standard Report
Batch : c:\ezchrom\sequence\2004\04g3946.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0408\8151t\04g3146\3146g.q03
ID: ccv GC16249 -- Aug 10, 2004 20:19:33
Printed: Aug 11, 2004 9:46:47

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	247.248	1.101	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	249.290	0.284	15.000	Passed
3 4-Nitrophenol	250.000	228.950	8.420	15.000	Passed
4 DCAA(Surr)	1200.000	1168.275	2.644	15.000	Passed
5 Dicamba	250.000	242.315	3.074	15.000	Passed
6 MCPP(ppm)	25.000	23.085	7.662	15.000	Passed
7 MCPA(PPm)	25.000	21.950	12.200	15.000	Passed
8 Dichloroprop	250.000	233.537	6.585	15.000	Passed
9 2,4-D (m)	1250.000	1222.005	2.240	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	237.684	4.926	15.000	Passed
12 Silvex (m)	250.000	253.337	1.335	15.000	Passed
13 Chloramben	250.000	231.238	7.505	15.000	Passed
14 2,4,5-T (m)	250.000	256.634	2.654	15.000	Passed
15 Dinoseb	250.000	247.473	1.011	15.000	Passed
16 2,4-DB	1250.000	1234.179	1.266	15.000	Passed
17 Bentazon	250.000	234.763	6.095	15.000	Passed
18 Picloram	250.000	255.022	2.009	15.000	Passed
19 DCPA	250.000	278.655	11.462	15.000	Passed
20 Acifluorfen	250.000	265.878	6.351	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	239.467	4.213	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	265.960	6.384	15.000	Passed
3 4-Nitrophenol	250.000	256.505	2.602	15.000	Passed
4 DCAA (surr)	1200.000	1168.784	2.601	15.000	Passed
5 Dicamba	250.000	235.866	5.653	15.000	Passed
6 MCPP (ppm)	25.000	47.104	88.417	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	36.857	47.429	15.000	Failed
9 Dichloroprop	250.000	222.289	11.084	15.000	Passed
10 2,4-D (m)	1250.000	1111.709	11.063	15.000	Passed
11 Pentachlorphenol	250.000	231.725	7.310	15.000	Passed
12 Silvex (m)	250.000	250.070	0.028	15.000	Passed
13 2,4,5-T (m)	250.000	225.071	9.972	15.000	Passed
14 Dinoseb	250.000	220.053	11.979	15.000	Passed
15 Chloramben	250.000	227.244	9.102	15.000	Passed

16 2,4-DB	1250.000	1041.590	16.673	15.000	Failed
17 Bentazon	250.000	220.140	11.944	15.000	Passed
18 DCPA	250.000	272.530	9.012	15.000	Passed
19 Picloram	250.000	265.016	6.006	15.000	Passed
20 Acifluorfen	250.000	254.324	1.729	15.000	Passed

Signature _____

Applied P & Ch Laboratory
T9/T8 Analysis by FPD Detector, Sys-E, 2 ul
Column: DB-5ms

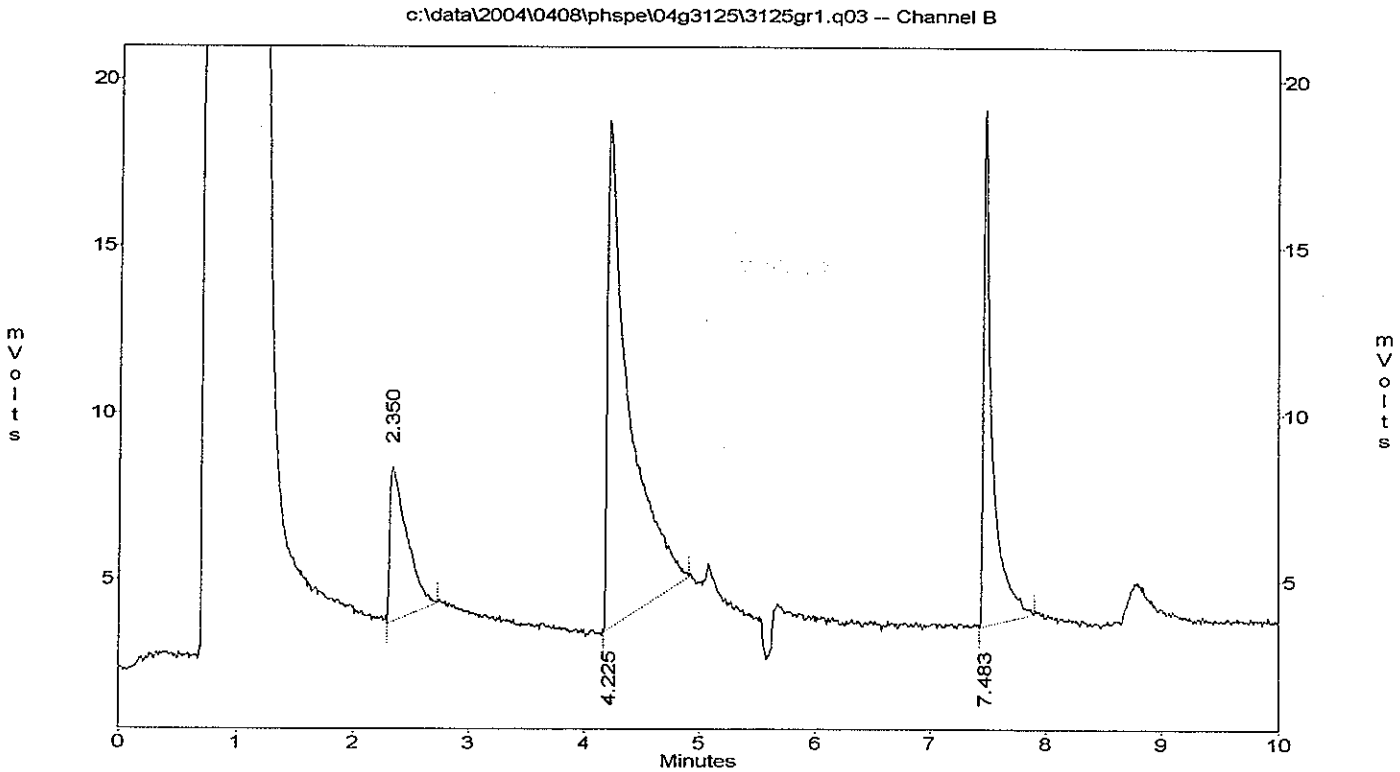
File : c:\data\2004\0408\phspe\04g3125\3125gr1.q03
Method : c:\class-vp\methods\Phsp-031.e00
Pretreatment : C:\EZCHROM\PRETREAT\Dsl.aoc
Sample ID : ccv GC16227r1

	Sample Amount	ISTD Amount	Mult. Factor
Calibration :	1.000	250.000	1.000
Run :	1.000	250.000	1.000

Acquired : Aug 11, 2004 09:46:32
Printed : Aug 11, 2004 09:56:36
User : System

Channel B Results

No.	Name	RT,min	Area	Height	Ave. RF	estd
--	1 Dimethyl metphs	1.44	0	0	0.000000	0.00
--	2 Diiosprop metphs	3.60	0	0	0.000000	0.00
--	3 Tributyl phos	7.11	0	0	0.000000	0.00



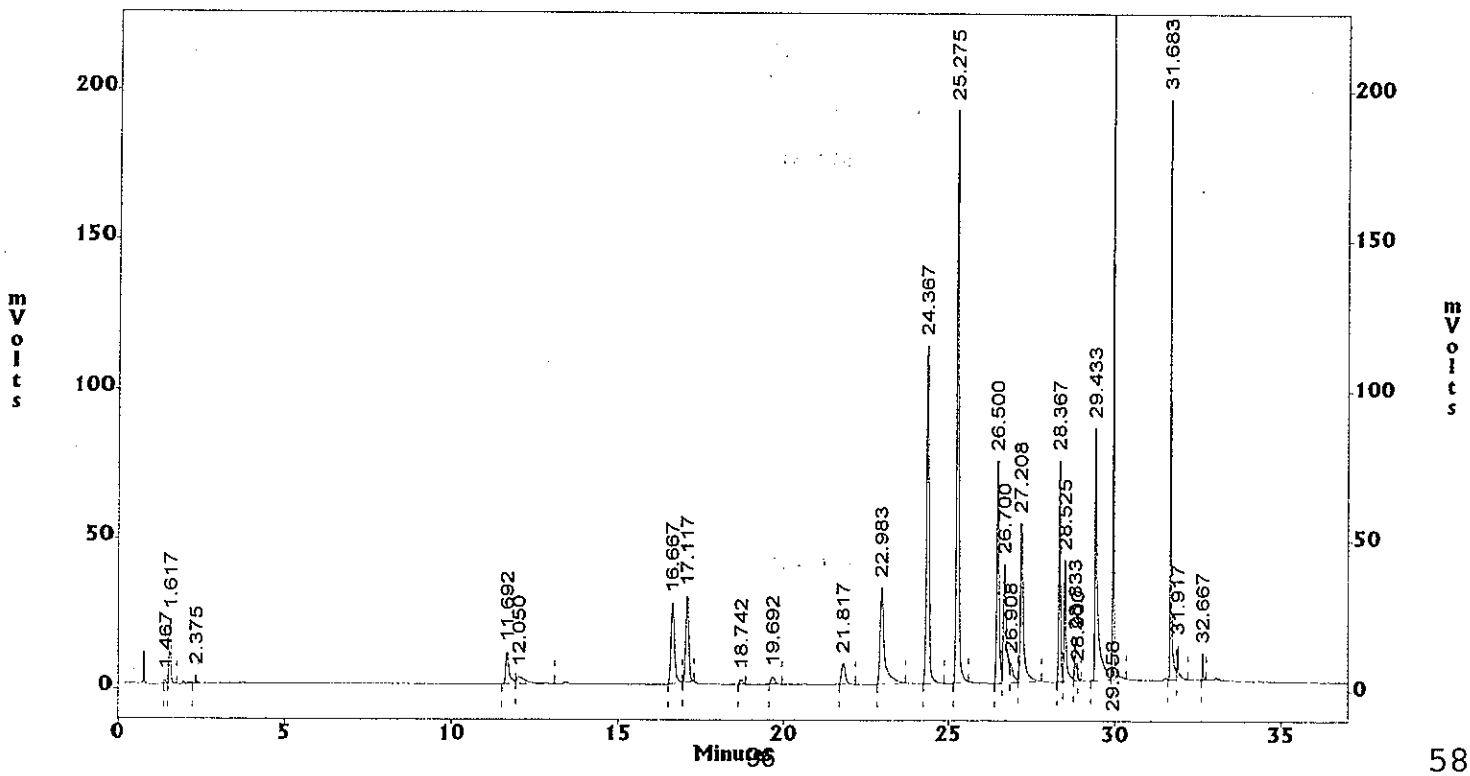
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q04
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ccv GC16249
Acquired : Aug 11, 2004 01:05:13
Printed : Aug 11, 2004 09:58:45
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.62	75665	21181	0.129749	245.25
4	2	3,5-Di-Cl-Bz acid	11.69	74583	10536	0.125046	250.84
5	3	4-Nitrophenol	12.05	42778	2382	0.070732	254.35
6	4	DCAA(Surr)	16.67	197620	26961	0.073885	1124.85
7	5	Dicamba	17.12	185519	28608	0.353447	220.74
8	6	MCPP(ppm)	18.74	9570	1581	0.179235	22.45
9	7	MCPA(PPm)	19.69	18090	2533	0.343572	22.14
10	8	Dichloroprop	21.82	55384	6939	0.099712	233.59
11	9	2,4-D (m)	22.98	298206	32411	0.101099	1240.47
12	10	DBOB (IS)	24.37	594456	112902	1.000000	250.00
13	11	Pentachlorphenol	25.27	880147	191231	1.555308	237.99
14	12	Silvex (m)	26.50	334689	74227	0.558710	251.93
15	13	Chloramben	26.70	246652	39725	0.444269	233.48
17	14	2,4,5-T (m)	27.21	325940	53235	0.534963	256.23
18	15	Dinoseb	28.37	243384	73927	0.419514	243.99
19	16	2,4-DB	28.52	166028	40616	0.056452	1236.87
20	17	Bentazon	28.83	44556	13515	0.079392	236.02
22	18	Picloram	29.43	451488	84283	0.745522	254.69
23	19	DCPA	29.96	498588	221886	0.763057	274.79
24	20	Acifluorfen	31.68	424671	193772	0.710861	251.24

c:\data\2004\0408\8151t\04g3146\3146g.q04 -- Channel A

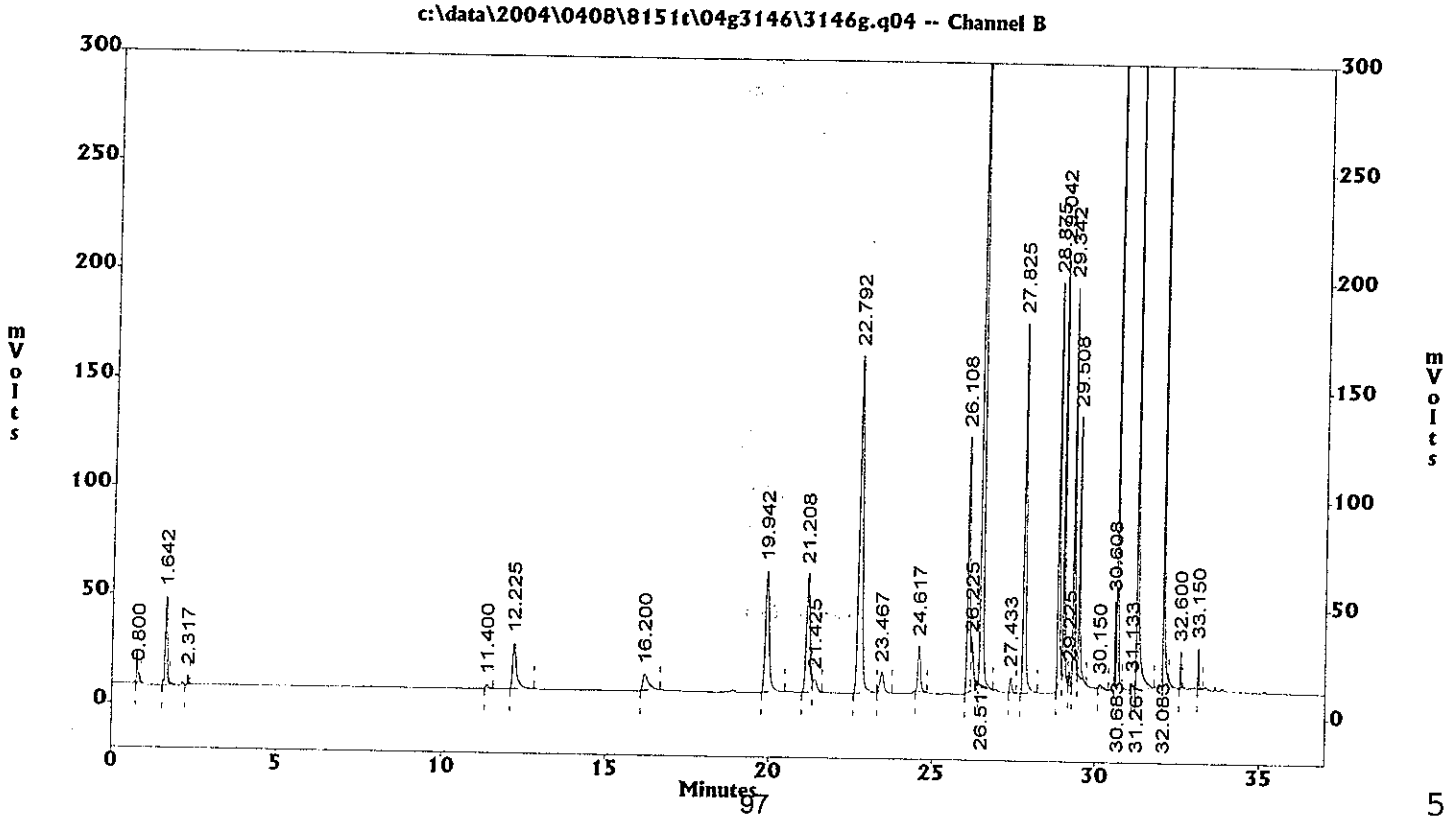


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0408\8151t\04g3146\3146g.q04
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ccv GC16249
Acquired : Aug 11, 2004 01:05:13
Printed : Aug 11, 2004 09:58:45
User : Bao Quan Zhang

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
2	1 Dalapon	1.64	176172	40415	0.159073	236.84
5	2 3,5-Di-Cl-Bz acid	12.23	173086	21025	0.140157	264.10
6	3 4-Nitrophenol	16.20	89277	7503	0.073447	259.94
7	4 DCAA (surr)	19.94	465939	55712	0.085575	1164.39
8	5 Dicamba	21.21	416014	54539	0.377820	235.47
9	6 MCPP (ppm)	21.42	51343	5823	0.224210	48.97
10	7 DBOB (IS)	22.79	1169022	155224	1.000000	250.00
11	8 MCPA (ppm)	23.47	75482	9300	0.438923	36.78
12	9 Dichloroprop	24.62	116399	20853	0.112632	221.01
13	10 2,4-D (m)	26.11	553234	117819	0.105689	1119.43
15	11 Pentachlorphenol	26.52	1758538	409948	1.620643	232.05
17	12 Silvex (m)	27.83	729270	170049	0.623829	250.00
18	13 2,4,5-T (m)	28.88	574760	184958	0.541272	227.09
19	14 Dinoseb	29.04	510873	195677	0.496953	219.84
21	15 Chloramben	29.34	516701	181541	0.484770	227.94
22	16 2,4-DB	29.51	313254	119305	0.064394	1040.32
24	17 Bentazon	30.61	71405	38728	0.068965	221.42
25	18 DCPA	30.68	996593	513818	0.782016	272.53
27	19 Picloram	31.27	1007179	391988	0.820557	262.49
28	20 Acifluorfen	32.08	851545	433762	0.718754	253.36



QC Check Standard Report
Batch : c:\ezchrom\sequence\2004\04g3946.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0408\8151t\04g3146\3146g.q04
ID: ccv GC16249 -- Aug 11, 2004 01:05:13
Printed: Aug 11, 2004 9:59:00

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	245.250	1.900	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	250.836	0.335	15.000	Passed
3 4-Nitrophenol	250.000	254.347	1.739	15.000	Passed
4 DCAA(Surr)	1200.000	1124.847	6.263	15.000	Passed
5 Dicamba	250.000	220.742	11.703	15.000	Passed
6 MCPP(ppm)	25.000	22.455	10.181	15.000	Passed
7 MCPA(PPm)	25.000	22.143	11.427	15.000	Passed
8 Dichloroprop	250.000	233.591	6.564	15.000	Passed
9 2,4-D (m)	1250.000	1240.475	0.762	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	237.990	4.804	15.000	Passed
12 Silvex (m)	250.000	251.927	0.771	15.000	Passed
13 Chloramben	250.000	233.485	6.606	15.000	Passed
14 2,4,5-T (m)	250.000	256.233	2.493	15.000	Passed
15 Dinoseb	250.000	243.987	2.405	15.000	Passed
16 2,4-DB	1250.000	1236.871	1.050	15.000	Passed
17 Bentazon	250.000	236.020	5.592	15.000	Passed
18 Picloram	250.000	254.687	1.875	15.000	Passed
19 DCPA	250.000	274.793	9.917	15.000	Passed
20 Acifluorfen	250.000	251.240	0.496	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	236.841	5.263	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	264.098	5.639	15.000	Passed
3 4-Nitrophenol	250.000	259.944	3.978	15.000	Passed
4 DCAA (surr)	1200.000	1164.388	2.968	15.000	Passed
5 Dicamba	250.000	235.473	5.811	15.000	Passed
6 MCPP (ppm)	25.000	48.972	95.886	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	36.777	47.107	15.000	Failed
9 Dichloroprop	250.000	221.006	11.597	15.000	Passed
10 2,4-D (m)	1250.000	1119.428	10.446	15.000	Passed
11 Pentachlorphenol	250.000	232.050	7.180	15.000	Passed
12 Silvex (m)	250.000	250.000	0.000	15.000	Passed
13 2,4,5-T (m)	250.000	227.085	9.166	15.000	Passed
14 Dinoseb	250.000	219.844	12.062	15.000	Passed
15 Chloramben	250.000	227.940	8.824	15.000	Passed

16	2,4-DB	1250.000	1040.320	16.774	15.000	Failed
17	Bentazon	250.000	221.420	11.432	15.000	Passed
18	DCPA	250.000	272.533	9.013	15.000	Passed
19	Picloram	250.000	262.491	4.997	15.000	Passed
20	Acifluorfen	250.000	253.364	1.346	15.000	Passed

Signature _____

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation Logbook

Batch # 04G3146 Matrix: S Target method: 8151A EXT Method: 8151A Date: 8-9-04

Solvent: Ether Lot # 031271-15; Exchange Solvent: Hexane Lot # C-1870; Analyst: KT

Lot #: Surr.: GC-16435 Conc.: 20.0ppm Na_2SO_4: SP 1232 ☐ Sonicator Tune

Op. #	Sample Type	Sample ID #	Smpl Amnt (mL or g)	Surr. Vol mL	Extract sub-ID	Final Vol. mL	Dilution $F=V/X$	pH	Note & Anomaly
3041	MB	04G3146/101	50.00	1.00	8151A	10.00	0.20		
3042	LCS	-101	50.01						
3043	LCSD	-101	50.00						
3044	Sample-1	04-3977-1	25.00	0.50	8151A	5.00	0.20		
3045	MS		8-9-04						
3046	MSD			KT					
3047	Sample-2	04-3977-2	25.01	0.50	8151A	5.00	0.20		
3048	Sample-3	04-3983-1	25.00						
3049	Sample-4	-2	25.00						
3050	Sample-5	-3	25.01						
3051	Sample-6								
3052	Sample-7								
3053	Sample-8								
3054	Sample-9								
3055	Sample-10								
3056	Sample-11								
3057	Sample-12								
3058	Sample-13								
3059	Sample-14								
3060	Sample-15								
3061	Sample-16								
3062	Sample-17								
3063	Sample-18								
3064	Sample-19								
3065	Sample-20								
3066	MTX Dup.								
3067	LCS′								
3068	LCSD′								
3069	MS′								
3070	MSD′								

Type	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$
LCS/LCSD	3042	GC-16441	1000 × 2.5 × 1.00 /X= ppb	3043	GC-16441	1000 × 2.5 × 1.00 /X= ppb
MS/MSD		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
LCS′/LCSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
MS′/MSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb

FILE: [CUST.DOC.GC]PREP_LOG .TEX Root-File: PREP_LOG_ROOT.TEX 1-Page-File: PREP_LOG1.TEX
APCL form 5-128, Nov. 2002; Ver 6.0 No pencil. Use blue pen for record. Use red pen for correction.

Supervisor Initial

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation

Extraction method: 1 3510–separate funnel; 2 3520–L-L continue extraction; 3 3550–Ultrasonic; 4 LUFT–Shaker; 5 3540–Soxhlet; 6 Solid phase Extraction; 7 Microextraction; 8 SFE; 9 Dilution; 10 Concentration; 11 Other, specify.

Service ID: 04-3977 Batch # 0463146 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by LE Date 8/9/04 Surro Lot GC-16435 Conc. 20.0 pp
LCS Lot GC-16441 Conc. 2.5 pp MS Lot GC-16441 Conc. 2.5 pp
Ext. solv. Ether Lot # 03 1271.15 Exchage solv. Hexane Lot # C-1870

Sample ID	-100	-101	-101	-1	-2			
Sample Matrix	S	→	→	→	→			
Sample Amount, X (g/mL)	50.00	50.01	10.00	25.00	25.01			
Any TCLP, EP, WET, SPLP ?								
Surr. STD used, mL	1.00	→	→	0.50	→			
Spike STD used, mL		1.00	→					
[Extracted at pH]	2<1>12	→	→	→	→	/	/	/ *
Solvent amount, mL	3×60	×	×	×	×	×	×	×
Final volume, V, mL	10.00	→	→	5.00	→			
Extraction DF $f_e = V/X$	0.20	→	→	→	→			
Sub-ID of extracts	8151A	→	→	→	→			
Anomaly Footnote† :								

Sample Cleanup

Op. by ____ Date / / (For details, see Cleanup worksheet)

Cleanup method:								
Cleanup DF, f_c								
Preparation DF, $f_1 = f_e\ f_c$								

Pre-injection*:

Op. by LE Date 8/9/04 IS Lot : GC-(630) Conc. 25 ppm

2nd dilution, f_2	(1)	1	→	→	→	→		
V_t, μL	(40)							
Single Extract GC, GC/MS Analysis:								
$V_2 = V_t/f_2$, μL	($40/f_2$)							
$V_{solvent} = V_t - V_2$, μL								
Double Extract GC, GC/MS Analysis:								
$V_> = \frac{1}{2}V_t/f_2$, μL	($20/f_2$)							
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL	($\frac{20}{f_2}\frac{f_<}{f_>}$)							
$V_{solvent} = V_t - V_> - V_<$								
IS volume, μL	(10)	10	→	→	→	→		
Final Conc. of IS	(40 ppm)							
Total $F = 2\ f_1\ f_>$ or $f_1\ f_2$		0.20	→	→	→	→		

† Extraction Anomaly Footnote:
1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

APCL form 7-122 (old 5-110), Ver. 3.0 April 5, 1996. No pencil. Use blue pen for record. Use red pen for correction.

File: [CUST.DOC.GC]EXTRACTION.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Analysis Anomaly Record

Batch #: 0404 3146 Method: 8251 Matrix: S Date: 8-9-4

Samples Involved: 3977 . 3983

- **Anomaly for MS/MSD/MD**
  - ☐ 1. MS/MSD out of control limit, sample matrix interference suspected
  - ☐ 2. MS or MSD out of control limit, but $\overline{MS}$ is O.K.
  - ☐ 3. One of MS/MSD, and $\overline{MS}$ out of control limit, but not enough sample for re-analysis
  - ☒ 4. Not enough sample for MS/MSD, LCS/LCSD may be used
  - ☐ 5. Spiked samples contain high concentration of analytes (>4 × spiked concentration)
  - ☐ 6. MS/MSD out of control limit, but post spike is O.K.
  - ☐ 7. MS/MSD out of control limit, due to the heterogenous matrix
  - ☐ 8. MS/MSD out of control limit, due to the very special matrix
  - ☐ 9. Not enough sample for matrix duplicate (MD)
- **Anomaly for Holding time (HT)**
  - ☐ 10. HT has been exceeded when received, authorized by the Client to carry on with the analyses
  - ☐ 11. Extraction HT was passed, authorized by the Client to carry on with the analyses
  - ☐ 12. Analysis HT was passed, authorized by the Client to carry on with the analyses
- **Surrogates Anomaly**
  - ☐ 13. Surrogate recovery out of control limit (see Level-1 Part III), sample matrix interference suspected
  - ☐ 14. Surrogate recovery out of control limit (see Level-1 Part III), but not enough sample for re-analysis
  - ☐ 15. Surrogate recovery out of control limit, due to very special matrix
  - ☐ 16. Surrogate diluted out (for highly contaminated samples)
  - ☐ 17. Lower surrogate recovery due to cleanup process
- **Chromatogram Pattern Anomaly**
  - ☐ 18. Not a typical gasoline chromatogram pattern
  - ☐ 19. Not a typical diesel chromatogram pattern
  - ☐ 20. Not a typical diesel chromatogram pattern, but similar to heavy-oil or motor oil
  - ☐ 21. Not a typical kerosene chromatogram pattern
  - ☐ 22. Not a typical jet fuel chromatogram pattern
  - ☐ 23. Not a complete PCB chromatogram pattern, interference/degration suspected
- **Other anomaly**

Problem Description: _____

Reason: _____

Analyst: [illegible] Date: 8-9-4

Note: _____

Applied P & Ch Laboratory
3760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Sequence # 04663146 Starting Date: 8/9/04 Time 16:52 Analyst: CB

Seq. type: ☐ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path: C:\data\2004\08\8157\04663146

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
4169	04663146	S	CCV	3146g.801	8157-063.t10		1		3146g.801	✓	GC16249
4170			mb	601			0.2		601	✓	
4171			lcs	601					601		
4172			lcsd	701					701		
4173				3977-1					3977.001	X	need rerun
4174				-2					002	X	
4175				3983-1					3983.001	✓	
4176				-2					002		
4177				-3					003		
4178			CCV	3146g.802			1		3146g.802	✓	GC16249
4179				803			1		803	✓	
4180				3977-1			0.2		3977.101		
4181				-2					102		
4182				3983-1					3983.101		
4183				-2					102		
4184				-3					103		
4185			CCV	3146g.804			1		3146g.804	✓	GC16249
4186											
4187											
4188											
4189											
4190											
4191											
4192											
4193											
4194											
4195											
4196											
4197											
4198											

8/13/04

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

FILE: [CUST.DOC.GC]GC_LOG .TEX Root-File: GC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]GC_LOG1.TEX
APCL form 7-101, Nov 29, 1999; Ver 4.2 No pencil. Use blue pen for record. Use red pen for correction.

Supervisor Initial 593

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Sequence # 0363116 Starting Date: 7/8/03 Time 13:43 Analyst: RCB

Seq. type: ☒ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path C:\bdata\2003\0307\8151C\0363116

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
3369			Ical	50 ppb	8151-063.050		1		8151-063.050	✓	GC15411
3370				100					100		GC15412
3371				250					250		GC15413
3372				400					400		GC15414
3373				500					500		GC15415
3374	0363116	S	ICV/CCV	3116g.S01					3116g.S01		GC14184
3375			mb	K01			0.2		K01		
3376				3888-1					3888.001		
3377				-2					002		
3378				-4					004		
3379				-5					005		
3380				-6					006		
3381			CCV	3116g.S02			1		3116g.S02		GC15413
3382				3888-8			0.2		3888.008		
				-9					009		
3384				-10					010		
3385				-11					011		
3386				-12					012		
3387				-13					013		
3388				-3					003		
3389			CCV	3116g.S03			1		3116g.S03		GC15413
3390				3888-7			0.2		3888.007		
3391			Lcsd	3116g.J01					3116g.J01		
3392			Lcs	L01					L01		
3393	0363260	S	mb	3264g.K01			0.2		3264g.K01		
3394			Lcs	L01					L01		
3395			Lcsd	J01					J01		
3396				4049-1					4049.001		
3397				-2					002		
3398			CCV	3116g.S04			1		3116g.S04		GC15413

Footnote/Anomaly: END RCB 7/9/03

*Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.
Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

Level D Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

Applied P & CH Laboratories

Wet Analysis Results for Method ASTM-D2216

Client Name:	Curtis & Tompkins	Project No:	173857	Anal. Method	ASTM-D2216
Project ID:	Presidio-Baker Beach 3	Service ID:	43977	Collected by:	

Component Name: Moisture
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
04-3977-1	BB3EX108(0.5)	Soil	08/05/04	08/06/04	08/09/04	04W3570	%Moisture	0.5	4.5	
04-3977-2	EUP080504A	Soil	08/05/04	08/06/04	08/09/04	04W3570	%Moisture	0.5	3.8	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 04-3977

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	04W3570	08/09/2004	04-3976-01	%Moisture	6.09	5.58	9	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

ed P & Ch Laboratory
d Magnolia Ave. Chino CA 91710
l: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 04W3557 SOP: G-86
Date 8/6/04 Analyst GH

Batch # 04W3570 SOP: G-86
Date 8/10/04 Analyst GH

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times 100\%$		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times 100\%$
K Smpl-1	3962-2	20.97	46.28	41.70	18.03	96 Smpl-1	3963-32	21.64	25.56	24.49	27.30
L Smpl-2	3	22.18	41.77	38.02	19.14	T Smpl-2	3977-1	22.35	38.86	38.12	4.48
M Smpl-3	5	22.39	45.51	35.69	42.47	M45 Smpl-3	-2	22.40	39.39	38.75	3.77
N Smpl-4	7	22.39	46.39	42.60	15.79	M33 Smpl-4	3986-1	23.44	45.86	44.94	4.10
O Smpl-5	8	22.59	41.10	37.32	20.42	H35 Smpl-5	-3	22.80	44.29	43.91	1.77
8 Smpl-6	10	21.29	41.08	37.30	19.02	B2 Smpl-6	-5	21.09	40.53	40.31	1.13
P Smpl-7	12	23.17	44.90	40.78	18.96	77 Smpl-7	-7	21.22	33.99	33.51	3.45
X Smpl-8	13	22.79	27.60	26.72	18.30	X7 Smpl-8	3978-4	22.01	47.01	42.88	16.51
Smpl-9	16	No	Smpl			TS Smpl-9	-7	22.42	44.47	40.79	16.69
9 Smpl-10	17	23.88	45.78	41.02	21.74	V Smpl-10	-10	21.34	38.01	35.85	12.96
TL Smpl-11	19	20.72	24.31	22.33	55.15	C Smpl-11	-12	22.44	43.98	39.42	21.17
A Smpl-12	21	22.65	25.47	23.84	57.80	TL Smpl-12	3976-1	20.71	39.77	38.61	6.09
I Smpl-13	23	21.04	34.03	30.05	30.64	HQ Smpl-13	-2	23.62	47.13	45.40	7.36
t Smpl-14	25	22.56	45.22	40.95	18.84	CP Smpl-14	-7	22.77	48.51	43.20	20.63
U Smpl-15	26	23.30	47.32	41.99	22.19	J7 Smpl-15	-8	24.14	41.70	37.84	21.98
V Smpl-16	27	22.56	46.03	40.63	23.01	96 Smpl-16	-10	21.59	39.61	35.96	20.26
θ Smpl-17	28	21.26	45.99	40.14	23.66	E Smpl-17	-9	23.82	43.67	40.54	15.78
62 Smpl-18	29	23.00	26.51	25.02	42.45	74 Smpl-18	-6	23.31	48.43	46.46	7.84
Ω Smpl-19	30	22.37	39.94	36.68	18.58	9 Smpl-19	-5	22.31	41.88	40.89	5.06
Φ Smpl-20	31	21.41	46.29	39.50	27.29	B Smpl-20	-11	21.35	44.64	43.51	4.85
Ω1 MD	-28	22.37	39.94	35.68	24.25	62 MD	3976-1	22.95	43.22	42.09	5.58

Footnote/Anomaly:

APCL form 5-163 Ver. 1.1 Apr. 22, 1996 No pencil. Use blue pen for record. Use red pen for correction.
File: {CUST.DOC.WET}MOIS.TEX Root-File: MOIS_ROOT.TEX 1-Page-File: MOIS1.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Balance Daily Calibration Worksheet

Weight Set S/N: 12006

Calib. Date	Lab Balance Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
8/4/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	0.9999	9.9998	199.9997	✓✓✓	
	A-02					B-03	0.99	10.01	200.00	✓✓✓	C-02	1.0000	10.0001	200.0000	✓✓✓	
	A-03					B-06	1.01	10.00	200.02	✓✓✓	C-					
	A-04		8/4/04			B-07	0.99	9.99	199.99	✓✓✓	C-		8/4/04			
	A-					B-					C-					
	A-					B-		8/4/04			C-					
8/5/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.03	✓✓✓	C-01	1.0000	10.0001	200.0002	✓✓✓	
	A-02					B-03	0.98	9.97	199.95	✓✓✓	C-02	1.0001	10.0002	200.0003	✓✓✓	
	A-03					B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-07	1.00	10.01	200.03	✓✓✓	C-		8/5/04			
	A-		8/5/04			B-					C-					
	A-					B-		8/5/04			C-					
8/6/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.03	✓✓✓	C-01	1.0000	10.0001	200.0002	✓✓✓	
	A-02					B-03	0.99	9.99	199.97	✓✓✓	C-02	1.0001	10.0002	200.0003	✓✓✓	
	A-03					B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-04		8/6/04			B-07	1.00	10.00	200.00	✓✓✓	C-		8/6/04			
	A-					B-					C-					
	A-					B-		8/6/04			C-					
8/9/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.03	✓✓✓	C-01	1.0000	10.0001	200.0002	✓✓✓	
	A-02					B-03	0.99	9.99	199.97	✓✓✓	C-02	1.0001	10.0002	200.0003	✓✓✓	
	A-03					B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-04		8/9/04			B-07	1.01	10.00	200.00	✓✓✓	C-		8/9/04			
	A-					B-					C-					
	A-					B-		8/9/04			C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

599

109

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173857
Metals

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio - Baker Beach 3

Sample ID	Lab ID
BB3EX108[0.5]	173857-001
DUP080504A	173857-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/7/04
Operations Manager

Signature: _____ Date: 8/30/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
METALS (EPA 6010B AND EPA 7470A)

Laboratory number:	173857
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio - Baker Beach 3
Request Date:	08/05/04
Samples Received:	08/05/04

This hardcopy data package contains sample and batch QC results for two soil samples, requested for the above referenced project on 08/05/04. The samples were received cold and intact.

Low recoveries were observed for a number of analytes in the MS/MSD for batch 93529; the parent sample was not a project sample, and the BS/BSD were within limits. High recoveries were observed for chromium; the BS/BSD were within limits. High RPD was observed for copper; the RPD was acceptable in the BS/BSD.

No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

173857

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2993.12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Chambers
Recorder (Signature Required): [signature]

Turnaround Time: 5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	Pesticides	PCBs	mercury	VOCs	SVOCs	TPH diesel	TPH fuel oil	Chlorinated Herb	Silica gel clean-up	Hold	Remarks
BB3EXIOS[03]	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X	X		Sample tube from "B" and labeled 3 with a Level 4 data package
DUPBB3S04A	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/5/04	1415	John Payton	8/5	2:8
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Mark Cohen	Date 8-5-04	Time 15:30	Received by Lab: (Signature) Savanna Cuti	Date 8/5/04	Time 15:50

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Send Login to Colleen Harden - SF Office

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [X] Private Courier (Co. Name) Ultra Ex

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002235

4

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173857 Date Received: 8-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 8-5-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C ..... YES NO
   Type of ice: wet Temperature: cold – no temp blank

B. Login Phase
Date Logged In: 8-5-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Results & QC Summary

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX108[0.5]	Batch#:	93529
Lab ID:	173857-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	mg/Kg	Prepared:	08/05/04
Basis:	dry	Analyzed:	08/06/04
Diln Fac:	1.000		

Moisture: 5%

Analyte	Result	RL
Antimony	ND	2.1
Arsenic	2.1	0.17
Barium	9.6	0.35
Beryllium	0.084	0.069
Cadmium	ND	0.17
Chromium	25	0.35
Cobalt	3.5	0.69
Copper	2.3	0.35
Lead	1.4	0.10
Molybdenum	ND	0.69
Nickel	15	0.69
Selenium	ND	0.17
Silver	ND	0.17
Thallium	ND	0.17
Vanadium	20	0.35
Zinc	11	0.69

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

15.1

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	DUP080504A	Batch#:	93529
Lab ID:	173857-002	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	mg/Kg	Prepared:	08/05/04
Basis:	dry	Analyzed:	08/06/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL
Antimony	ND	2.5
Arsenic	2.5	0.21
Barium	9.8	0.42
Beryllium	0.11	0.083
Cadmium	ND	0.21
Chromium	32	0.42
Cobalt	4.8	0.83
Copper	3.1	0.42
Lead	1.7	0.13
Molybdenum	ND	0.83
Nickel	20	0.83
Selenium	ND	0.21
Silver	ND	0.21
Thallium	ND	0.21
Vanadium	27	0.42
Zinc	14	0.83

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260328	Batch#:	93529
Matrix:	Soil	Prepared:	08/05/04
Units:	mg/Kg	Analyzed:	08/06/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471
Analyte:	Mercury	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	mg/Kg	Prepared:	08/09/04
Diln Fac:	1.000	Analyzed:	08/10/04
Batch#:	93611		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture
BB3EX108[0.5]	SAMPLE	173857-001	ND	0.019	dry	5%
DUP080504A	SAMPLE	173857-002	ND	0.020	dry	4%
	BLANK	QC260648	ND	0.020	as received	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93529
Units:	mg/Kg	Prepared:	08/05/04
Basis:	as received	Analyzed:	08/06/04
Diln Fac:	1.000		

Type: BS Lab ID: QC260329

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	97.50	98	75-125
Arsenic	50.00	49.40	99	75-125
Barium	100.0	97.50	98	75-125
Beryllium	2.500	2.505	100	75-125
Cadmium	10.00	9.700	97	75-125
Chromium	100.0	98.00	98	75-125
Cobalt	25.00	24.35	97	75-125
Copper	12.50	12.70	102	75-125
Lead	100.0	98.50	99	75-125
Molybdenum	20.00	20.15	101	75-125
Nickel	25.00	24.30	97	75-125
Selenium	50.00	48.95	98	75-125
Silver	10.00	10.00	100	75-125
Thallium	50.00	48.90	98	75-125
Vanadium	25.00	24.95	100	75-125
Zinc	25.00	23.90	96	75-125

Type: BSD Lab ID: QC260330

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.50	100	75-125	2	30
Arsenic	50.00	49.90	100	75-125	1	30
Barium	100.0	98.50	99	75-125	1	30
Beryllium	2.500	2.530	101	75-125	1	30
Cadmium	10.00	9.800	98	75-125	1	30
Chromium	100.0	99.50	100	75-125	2	30
Cobalt	25.00	24.60	98	75-125	1	30
Copper	12.50	12.85	103	75-125	1	30
Lead	100.0	99.00	99	75-125	1	30
Molybdenum	20.00	20.45	102	75-125	1	30
Nickel	25.00	24.50	98	75-125	1	30
Selenium	50.00	49.20	98	75-125	1	30
Silver	10.00	10.05	101	75-125	0	30
Thallium	50.00	49.40	99	75-125	1	30
Vanadium	25.00	25.15	101	75-125	1	30
Zinc	25.00	24.15	97	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	93611
MSS Lab ID:	173867-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/06/04
Units:	mg/Kg	Prepared:	08/09/04
Basis:	as received	Analyzed:	08/10/04

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC260649		0.5000	0.4890	98	75-125		
BSD	QC260650		0.5000	0.4860	97	75-125	1	35
MS	QC260653	0.2010	0.4808	0.6442	92	75-125		
MSD	QC260654		0.4630	0.5917	84	75-125	6	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	93529
MSS Lab ID:	173840-001	Sampled:	08/04/04
Matrix:	Soil	Received:	08/04/04
Units:	mg/Kg	Prepared:	08/05/04
Basis:	dry	Analyzed:	08/06/04
Diln Fac:	1.000		

Type: MS Moisture: 4%
Lab ID: QC260331

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	3.195	103.1	31.71	28 *	75-125
Arsenic	3.667	51.57	50.85	91	75-125
Barium	129.4	103.1	210.4	79	75-125
Beryllium	0.1901	2.578	2.506	90	75-125
Cadmium	1.176	10.31	9.643	82	75-125
Chromium	227.7	103.1	368.2	136 *	75-125
Cobalt	33.29	25.78	59.82	103	75-125
Copper	48.92	12.89	55.69	53 *	75-125
Lead	11.11	103.1	95.92	82	75-125
Molybdenum	0.3989	20.63	18.46	88	75-125
Nickel	455.9	25.78	593.0	532 NM	75-125
Selenium	<0.1875	51.57	46.72	91	75-125
Silver	<0.02917	10.31	9.953	97	75-125
Thallium	<0.1667	51.57	43.06	84	75-125
Vanadium	56.92	25.78	76.84	77	75-125
Zinc	69.80	25.78	82.51	49 *	75-125

Type: MSD Moisture: 4%
Lab ID: QC260332

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	89.03	25.73	25 *	75-125	7	30
Arsenic	44.52	43.22	89	75-125	3	30
Barium	89.03	201.7	81	75-125	2	30
Beryllium	2.226	2.146	88	75-125	2	30
Cadmium	8.903	8.324	80	75-125	2	30
Chromium	89.03	357.5	146 *	75-125	1	30
Cobalt	22.26	51.19	80	75-125	9	30
Copper	11.13	86.36	336 NM	75-125	46 *	30
Lead	89.03	97.93	98	75-125	15	30
Molybdenum	17.81	15.63	86	75-125	2	30
Nickel	22.26	443.8	-54 NM	75-125	28	30
Selenium	44.52	39.22	88	75-125	3	30
Silver	8.903	8.502	96	75-125	1	30
Thallium	44.52	36.41	82	75-125	2	30
Vanadium	22.26	72.12	68 *	75-125	2	30
Zinc	22.26	93.93	108	75-125	17	30

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74315873020	Seqnum	: 74315873021
Filename	: tr244406	Filename	: tr244407
IDF	: 1.0	IDF	: 5.0
PDF	: 51.55	PDF	: 51.55
Run type	: MSS	Run type	: SER
Samplenum	: 173840-001	Samplenum	: QC260333
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93529	Batchnum	: 93529
Inj	: 06-AUG-2004 10:49	Inj	: 06-AUG-2004 10:56
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	3.09	ND	15.5	--	10	u
Arsenic	3.52	0.258	3.22	1.29	--	10	u
Barium	124	0.515	117	2.58	6	10	u
Beryllium	0.182	0.103	ND	0.515	--	10	u
Cadmium	1.13	0.258	ND	1.29	43	10	u
Calcium	*** usable MSS data not found ***						
Chromium	219	0.515	221	2.58	1	10	u
Cobalt	32.0	1.03	32.7	5.15	2	10	u
Copper	47.0	0.515	43.6	2.58	7	10	u
Iron	*** usable MSS data not found ***						
Lead	10.7	0.155	10.6	0.773	0	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	758	0.515	711	2.58	6	10	
Molybdenum	ND	1.03	ND	5.15	--	10	u
Nickel	438	1.03	459	5.15	5	10	u
Selenium	ND	0.258	ND	1.29	--	10	u
Silver	ND	0.258	ND	1.29	--	10	u
Thallium	ND	0.258	ND	1.29	--	10	u
Vanadium	54.6	0.515	54.1	2.58	1	10	u
Zinc	67.0	1.03	66.5	5.15	1	10	u
Titanium	*** usable MSS data not found ***						

u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74315873020	Seqnum	: 74315873023
Filename	: tr244406	Filename	: tr244409
IDF	: 1.0	IDF	: 1.0
PDF	: 51.55	PDF	: 51.55
Run type	: MSS	Run type	: PDS
Samplenum	: 173840-001	Samplenum	: QC260334
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93529	Batchnum	: 93529
Inj	: 06-AUG-2004 10:49	Inj	: 06-AUG-2004 11:28
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	59.50	2000	1920	93	1-120	u
Arsenic	68.30	1000	971.0	90	57-120	u
Barium	2410	2000	4180	89	52-134	u
Beryllium	3.540	50	48.50	90	65-120	u
Cadmium	21.90	200	182.0	80	57-120	u
Calcium	*** usable MSS data not found ***					
Chromium	4240	2000	5920	84	55-120	u
Cobalt	620.0	500	1030	82	52-120	u
Copper	911.0	250	1130	88	47-143	u
Iron	*** usable MSS data not found ***					
Lead	207.0	2000	1930	86	42-125	u
Magnesium	*** usable MSS data not found ***					
Manganese	14700	500	15000	60	34-141	:
Molybdenum	7.430	400	372.0	91	45-120	u
Nickel	8490	500	8810	64	36-138	: u
Selenium	ND	1000	919.0	92	42-120	u
Silver	ND	200	190.0	95	66-120	u
Thallium	ND	1000	865.0	87	48-120	u
Vanadium	1060	500	1490	86	45-136	u
Zinc	1300	500	1720	84	34-139	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

Method: 6010B Standard: blank
Run Time: 08/06/04 08:24:54

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.005	.004	-.000	.001	-.287	.006	.000
SDev	.001	.002	.000	.001	.005	.000	.000
%RSD	13.6	37.7	141.	50.6	1.63	3.53	71.6
#1	-.005	.005	.000	.001	-.284	.006	.000
#2	-.006	.003	-.000	.001	-.290	.006	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.008	.003	-.001	.002	.003	-.007
SDev	.000	.000	.002	.002	.001	.001	.000
%RSD	5.98	4.02	48.9	269.	57.9	30.4	3.15
#1	-.001	.007	.004	.001	.003	.004	-.007
#2	-.001	.008	.002	-.002	.001	.003	-.007

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.006	-.001	-.005	.001	.029	.0571	-.0027
SDev	.001	.002	.001	.001	.001	.0007	.0000
%RSD	19.8	267.	17.6	63.7	2.10	1.270	1.772
#1	.007	.001	-.006	.001	.028	.0566	-.0027
#2	.005	-.002	-.004	.000	.029	.0576	-.0027

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0016	.0000	.001	.170
SDev	.0000	.0001	.000	.003
%RSD	.6682	286.6	14.5	1.53
#1	-.0016	.0001	.001	.168
#2	-.0016	-.0000	.002	.171

Method: 6010B Standard: cst hi
Run Time: 08/06/04 08:28:38

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.44	.809	.308	16.3	2.81	1.14	.239
SDev	.02	.004	.002	.1	.03	.01	.002
%RSD	1.69	.469	.618	.345	.984	.603	.853
#1	1.42	.807	.306	16.2	2.79	1.13	.238
#2	1.45	.812	.309	16.3	2.83	1.14	.241

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.773	.534	.927	.909	2.37	1.96	.355
SDev	.006	.003	.003	.012	.06	.02	.001
%RSD	.777	.536	.323	1.32	2.43	.813	.402
#1	.769	.532	.924	.901	2.33	1.95	.354
#2	.777	.536	.929	.918	2.41	1.97	.356

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.387	.298	.216	.886	.211	.1690	.3013
SDev	.004	.000	.003	.006	.002	.0010	.0026
%RSD	1.03	.133	1.27	.658	.732	.6201	.8502
#1	.384	.297	.214	.882	.210	.1683	.2995
#2	.390	.298	.218	.891	.213	.1698	.3032

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1202	.1727	1.13	7.01
SDev	.0008	.0014	.01	.05
%RSD	.7047	.8343	.826	.680
#1	.1196	.1716	1.12	6.97
#2	.1208	.1737	1.14	7.04

Standardization Report 08/06/04 08:32:43 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	689.275	3.58971	08/06/04 08:28:38
Sb206A	206.832	Multiple	Standards	1217.42	-4.84701	08/06/04 08:28:38
As1890	189.042	Multiple	Standards	1625.77	.139605	08/06/04 08:28:38
Ba4934	493.409	Multiple	Standards	61.4225	-.067768	08/06/04 08:28:38
Be3130	313.042	Multiple	Standards	31.1654	8.95059	08/06/04 08:28:38
Cd2265	226.502	Multiple	Standards	88.1796	-.517142	08/06/04 08:28:38
Cr2677	267.716	Multiple	Standards	837.168	-.071581	08/06/04 08:28:38
Co2286	228.616	Multiple	Standards	647.277	.812477	08/06/04 08:28:38
Cu3247	324.754	Multiple	Standards	379.913	-2.86939	08/06/04 08:28:38
Pb2203	220.351	Multiple	Standards	542.069	-1.72537	08/06/04 08:28:38
Pb220A	220.352	Multiple	Standards	544.799	.383098	08/06/04 08:28:38
Mo2020	202.030	Multiple	Standards	422.463	-.967633	08/06/04 08:28:38
Ni2316	231.604	Multiple	Standards	255.534	-.838689	08/06/04 08:28:38
Se1960	196.021	Multiple	Standards	1382.79	9.53333	08/06/04 08:28:38
Se196A	196.022	Multiple	Standards	1310.45	-7.78583	08/06/04 08:28:38
Ag3280	328.068	Multiple	Standards	335.536	.246812	08/06/04 08:28:38
Tl1908	190.864	Multiple	Standards	2278.38	11.5041	08/06/04 08:28:38
V_2924	292.402	Multiple	Standards	564.595	-.418940	08/06/04 08:28:38
Zn2138	213.856	Multiple	Standards	565.606	-16.3432	08/06/04 08:28:38
Al3082	308.215	Multiple	Standards	9099.59	-519.447	08/06/04 08:28:38
Ca3179	317.933	Multiple	Standards	6577.29	17.8497	08/06/04 08:28:38
Fe2714	271.441	Multiple	Standards	8592.43	13.7147	08/06/04 08:28:38
Mg2790	279.079	Multiple	Standards	11578.6	-.242200	08/06/04 08:28:38
Mn2576	257.610	Multiple	Standards	88.6385	-.120840	08/06/04 08:28:38
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/06/04 08:28:38
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/06/04 08:28:38
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/06/04 08:28:38
Ti3349	334.941	Multiple	Standards	146.234	-24.7992	08/06/04 08:28:38

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873001
Run Name :
Filename : tr244387
Injected : 06-AUG-2004 08:33
Caltype :

Standards: 04WS1252

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1002.000	ug/L	0	5	
Antimony	1000.000	1000.000	ug/L	0	5	
Arsenic	500.0000	509.0000	ug/L	2	5	
Barium	1000.000	996.0000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2031.000	ug/L	2	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	506.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1016.000	ug/L	2	5	
Lead	500.0000	502.0000	ug/L	0	5	
Magnesium	2000.000	2026.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	506.0000	ug/L	1	5	
Selenium	500.0000	504.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	503.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873002

Run Name :
Filename : tr244388

Injected : 06-AUG-2004 08:38
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	485.8000	ug/L	-3	10	
Antimony	500.0000	511.0000	ug/L	2	10	
Arsenic	250.0000	253.0000	ug/L	1	10	
Barium	500.0000	487.0000	ug/L	-3	10	
Beryllium	50.00000	50.20000	ug/L	0	10	
Cadmium	50.00000	50.90000	ug/L	2	10	
Calcium	1000.000	1018.000	ug/L	2	10	
Chromium	100.0000	101.0000	ug/L	1	10	
Cobalt	250.0000	247.0000	ug/L	-1	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	489.4000	ug/L	-2	10	
Lead	250.0000	251.0000	ug/L	0	10	
Magnesium	1000.000	1014.000	ug/L	1	10	
Manganese	50.00000	49.10000	ug/L	-2	10	
Molybdenum	500.0000	513.0000	ug/L	3	10	
Nickel	250.0000	252.0000	ug/L	1	10	
Selenium	250.0000	249.0000	ug/L	0	10	
Silver	50.00000	50.30000	ug/L	1	10	
Thallium	250.0000	240.0000	ug/L	-4	10	
Titanium	500.0000	505.0000	ug/L	1	10	
Vanadium	250.0000	248.0000	ug/L	-1	10	
Zinc	50.00000	50.70000	ug/L	1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74315873004 Filename : tr244390 Injected : 06-AUG-2004 08:47
Caltype :

Standards: 04WS1044

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	98.52000	ug/L	-1	50	
Antimony	60.00000	61.60000	ug/L	3	50	
Arsenic	5.000000	6.630000	ug/L	33	50	
Barium	10.00000	9.810000	ug/L	-2	50	
Beryllium	2.000000	1.620000	ug/L	-19	50	
Cadmium	5.000000	5.110000	ug/L	2	50	
Calcium	200.0000	221.1000	ug/L	11	50	
Chromium	10.00000	10.50000	ug/L	5	50	
Cobalt	20.00000	20.00000	ug/L	0	50	
Copper	10.00000	10.70000	ug/L	7	50	
Iron	100.0000	136.8000	ug/L	37	50	
Lead	3.000000	2.740000	ug/L	-9	50	
Magnesium	200.0000	209.6000	ug/L	5	50	
Manganese	10.00000	10.10000	ug/L	1	50	
Molybdenum	20.00000	20.70000	ug/L	4	50	
Nickel	20.00000	20.10000	ug/L	1	50	
Selenium	5.000000	6.570000	ug/L	31	50	
Silver	5.000000	5.230000	ug/L	5	50	
Thallium	5.000000	6.180000	ug/L	24	50	
Vanadium	10.00000	10.20000	ug/L	2	50	
Zinc	20.00000	21.10000	ug/L	6	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873014

Run Name :
Filename : tr244400

IDF : 1.0
Injected : 06-AUG-2004 10:09
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	430.5000	ug/L	**-14**	10	c- **
Antimony		500.0000	515.0000	ug/L	3	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	50.00000	ug/L	0	10	
Cadmium		50.00000	51.10000	ug/L	2	10	
Calcium		1000.000	1018.000	ug/L	2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	498.8000	ug/L	0	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1009.000	ug/L	1	10	
Manganese		50.00000	49.10000	ug/L	-2	10	
Molybdenum		500.0000	511.0000	ug/L	2	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.40000	ug/L	3	10	

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873027
Run Name :
Filename : tr244413
IDF : 1.0
Injected : 06-AUG-2004 11:50
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	775.7000	ug/L	3	10	
Antimony		750.0000	763.0000	ug/L	2	10	
Arsenic		375.0000	373.0000	ug/L	-1	10	
Barium		750.0000	732.0000	ug/L	-2	10	
Beryllium		75.00000	75.60000	ug/L	1	10	
Cadmium		75.00000	74.50000	ug/L	-1	10	
Calcium		1500.000	1522.000	ug/L	1	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	765.1000	ug/L	2	10	
Lead		375.0000	376.0000	ug/L	0	10	
Magnesium		1500.000	1578.000	ug/L	5	10	
Manganese		75.00000	73.80000	ug/L	-2	10	
Molybdenum		750.0000	759.0000	ug/L	1	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	75.60000	ug/L	1	10	
Thallium		375.0000	359.0000	ug/L	-4	10	
Titanium		750.0000	763.0000	ug/L	2	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	76.30000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873039

Run Name :
Filename : tr244425

IDF : 1.0
Injected : 06-AUG-2004 12:46
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	524.7000	ug/L	5	10	
Antimony		500.0000	501.0000	ug/L	0	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	483.0000	ug/L	-3	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	50.10000	ug/L	0	10	
Calcium		1000.000	1009.000	ug/L	1	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	98.40000	ug/L	-2	10	
Iron		500.0000	504.9000	ug/L	1	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	999.8000	ug/L	0	10	
Manganese		50.00000	47.60000	ug/L	-5	10	
Molybdenum		500.0000	499.0000	ug/L	0	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	242.0000	ug/L	-3	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873051

Run Name :
Filename : tr244437

IDF : 1.0
Injected : 06-AUG-2004 13:50
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	846.4000	ug/L	**13**	10	c+ **
Antimony		750.0000	761.0000	ug/L	1	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	74.00000	ug/L	-1	10	
Cadmium		75.00000	78.30000	ug/L	4	10	
Calcium		1500.000	1467.000	ug/L	-2	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	794.4000	ug/L	6	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1573.000	ug/L	5	10	
Manganese		75.00000	70.10000	ug/L	-7	10	
Molybdenum		750.0000	752.0000	ug/L	0	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	375.0000	ug/L	0	10	
Silver		75.00000	72.60000	ug/L	-3	10	
Thallium		375.0000	375.0000	ug/L	0	10	
Titanium		750.0000	761.0000	ug/L	1	10	
Vanadium		375.0000	362.0000	ug/L	-3	10	
Zinc		75.00000	79.20000	ug/L	6	10	

+=high bias c=CCV

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873003 Run Name:
Filename: tr244389 Run Type: ICB

Injected: 06-AUG-2004 08:42

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.9800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.9500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873015 Run Name: Injected: 06-AUG-2004 10:24
Filename: tr244401 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[26.050]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[11.790]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.9200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873028 Run Name: Injected: 06-AUG-2004 11:54
Filename: tr244414 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[25.760]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[24.810]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[33.190]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.4900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.3700]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873040 Run Name: Injected: 06-AUG-2004 12:51
Filename: tr244426 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.4800]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[37.300]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.6900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.8300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873052 Run Name:
Filename: tr244438 Run Type: CCB

Injected: 06-AUG-2004 13:59

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[95.810]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[1.2600]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[41.430]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[20.710]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[105.70]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.4600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873005 Run Name:
Filename: tr244391 Run Type: ICSA

Injected: 06-AUG-2004 08:58

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[6.7900]	60.00000	ug/L	<RL
Arsenic	[4.2400]	5.000000	ug/L	<RL
Barium	[0.1090]	10.00000	ug/L	<RL
Beryllium	[-1.450]	2.000000	ug/L	<RL
Cadmium	[0.8600]	5.000000	ug/L	<RL
Chromium	[3.5700]	10.00000	ug/L	<RL
Cobalt	[1.0700]	10.00000	ug/L	<RL
Copper	[-2.640]	10.00000	ug/L	<RL
Lead	[-0.569]	3.000000	ug/L	<RL
Manganese	[2.1000]	10.00000	ug/L	<RL
Molybdenum	[-0.592]	20.00000	ug/L	<RL
Nickel	[1.9400]	20.00000	ug/L	<RL
Selenium	[-3.300]	5.000000	ug/L	<RL
Silver	[0.1170]	5.000000	ug/L	<RL
Thallium	[-2.210]	5.000000	ug/L	<RL
Titanium	25.20000	10.00000	ug/L	<RL a+ ***
Vanadium	[-3.360]	10.00000	ug/L	<RL
Zinc	[1.1200]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	519800	ug/L	104
Calcium	500000	466600.	ug/L	93
Iron	200000	182700	ug/L	91
Magnesium	500000	533800	ug/L	107

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873006

Run Name :
Filename : tr244392

Injected : 06-AUG-2004 09:07
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	504400.0	ug/L	1		
Antimony	500.0000	501.0000	ug/L	0	20	
Arsenic	500.0000	497.0000	ug/L	-1	20	
Barium	500.0000	441.0000	ug/L	-12	20	
Beryllium	500.0000	483.0000	ug/L	-3	20	
Cadmium	1000.000	886.0000	ug/L	-11	20	
Calcium	500000.0	458300.0	ug/L	-8		
Chromium	500.0000	453.0000	ug/L	-9	20	
Cobalt	500.0000	462.0000	ug/L	-8	20	
Copper	500.0000	488.0000	ug/L	-2	20	
Iron	200000.0	178500.0	ug/L	-11		
Lead	1000.000	923.0000	ug/L	-8	20	
Magnesium	500000.0	522600.0	ug/L	5		
Manganese	500.0000	453.0000	ug/L	-9	20	
Molybdenum	500.0000	477.0000	ug/L	-5	20	
Nickel	1000.000	869.0000	ug/L	-13	20	
Selenium	500.0000	496.0000	ug/L	-1	20	
Silver	1000.000	828.0000	ug/L	-17	20	
Thallium	500.0000	464.0000	ug/L	-7	20	
Titanium	20000.00	20100.00	ug/L	1		
Vanadium	500.0000	458.0000	ug/L	-8	20	
Zinc	1000.000	951.0000	ug/L	-5	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873050
Run Name :
Filename : tr244436
Injected : 06-AUG-2004 13:44
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	502200.0	ug/L	0		
Antimony	500.0000	549.0000	ug/L	10	20	
Arsenic	500.0000	541.0000	ug/L	8	20	
Barium	500.0000	504.0000	ug/L	1	20	
Beryllium	500.0000	479.0000	ug/L	-4	20	
Cadmium	1000.000	967.0000	ug/L	-3	20	
Calcium	500000.0	430100.0	ug/L	-14		
Chromium	500.0000	474.0000	ug/L	-5	20	
Cobalt	500.0000	471.0000	ug/L	-6	20	
Copper	500.0000	504.0000	ug/L	1	20	
Iron	200000.0	180400.0	ug/L	-10		
Lead	1000.000	958.0000	ug/L	-4	20	
Magnesium	500000.0	534500.0	ug/L	7		
Manganese	500.0000	449.0000	ug/L	-10	20	
Molybdenum	500.0000	496.0000	ug/L	-1	20	
Nickel	1000.000	932.0000	ug/L	-7	20	
Selenium	500.0000	526.0000	ug/L	5	20	
Silver	1000.000	862.0000	ug/L	-14	20	
Thallium	500.0000	504.0000	ug/L	1	20	
Titanium	20000.00	21400.00	ug/L	7		
Vanadium	500.0000	471.0000	ug/L	-6	20	
Zinc	1000.000	1030.000	ug/L	3	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74315873 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr244387	CS				06-AUG-2004 08:33	1.0	1.0			1	
002	tr244388	ICV				06-AUG-2004 08:38	1.0	1.0			2	
003	tr244389	ICB				06-AUG-2004 08:42	1.0	1.0				
004	tr244390	CRI				06-AUG-2004 08:47	1.0	1.0			3	
005	tr244391	ICSA				06-AUG-2004 08:58	1.0	1.0	1		4	4:MG=533800
006	tr244392	ICSAB				06-AUG-2004 09:07	1.0	1.0			5	5:MG=522600
007	tr244393	BLANK	QC260325	93528	Wipe	06-AUG-2004 09:29	1.0	50.0	2			
008	tr244394	BS	QC260326	93528	Wipe	06-AUG-2004 09:33	1.0	50.0	2			
009	tr244395	BSD	QC260327	93528	Wipe	06-AUG-2004 09:38	1.0	50.0	2	1		
010	tr244396	SAMPLE	173780-001	93528	Wipe	06-AUG-2004 09:44	1.0	50.0				
011	tr244397	SAMPLE	173780-002	93528	Wipe	06-AUG-2004 09:48	1.0	50.0				
012	tr244398	SAMPLE	173844-001	93528	Wipe	06-AUG-2004 09:52	1.0	50.0				
013	tr244399	SAMPLE	173844-002	93528	Wipe	06-AUG-2004 09:56	1.0	50.0				
014	tr244400	CCV				06-AUG-2004 10:09	1.0	1.0	1		6	
015	tr244401	CCB				06-AUG-2004 10:24	1.0	1.0				
016	tr244402	SAMPLE	173844-003	93528	Wipe	06-AUG-2004 10:30	1.0	50.0				
017	tr244403	BLANK	QC260328	93529	Soil	06-AUG-2004 10:35	1.0	50.0	2			
018	tr244404	BS	QC260329	93529	Soil	06-AUG-2004 10:39	1.0	50.0	2			
019	tr244405	BSD	QC260330	93529	Soil	06-AUG-2004 10:43	1.0	50.0	2			
020	tr244406	MSS	173840-001	93529	Soil	06-AUG-2004 10:49	1.0	51.55	5			5:MG=1267000
021	tr244407	SER	QC260333	93529	Soil	06-AUG-2004 10:56	5.0	51.55		1		2:MG=240900
022	tr244408	X	QC260334	93529	Soil	06-AUG-2004 11:08	1.0	51.55			7 8	5:MG=1271000
023	tr244409	PDS	QC260334	93529	Soil	06-AUG-2004 11:28	1.0	51.55			7 8	5:MG=1277000
024	tr244410	MS	QC260331	93529	Soil	06-AUG-2004 11:33	1.0	49.50		1		5:MG=1551000
025	tr244411	MSD	QC260332	93529	Soil	06-AUG-2004 11:38	1.0	42.74		3		5:MG=1574000
026	tr244412	SAMPLE	173848-001	93529	Miscel	06-AUG-2004 11:44	1.0	40.65				
027	tr244413	CCV				06-AUG-2004 11:50	1.0	1.0			9	
028	tr244414	CCB				06-AUG-2004 11:54	1.0	1.0				
029	tr244415	SAMPLE	173848-002	93529	Miscel	06-AUG-2004 12:01	1.0	39.37	1			1:V=20800.0
030	tr244416	SAMPLE	173854-001	93529	Soil	06-AUG-2004 12:05	1.0	47.17				2:FE=347300
031	tr244417	SAMPLE	173854-002	93529	Soil	06-AUG-2004 12:09	1.0	45.45				3:FE=476000

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04SS171 8=04SS172 9=04WS1319

Analyst: K Carlyn Date: 8/6/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74315873 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr244418	SAMPLE	173854-003	93529	Soil	06-AUG-2004 12:13	1.0	50.0			3:CA=301200
033	tr244419	SAMPLE	173854-004	93529	Soil	06-AUG-2004 12:18	1.0	38.17			4:CA=486700
034	tr244420	SAMPLE	173857-001	93529	Soil	06-AUG-2004 12:22	1.0	32.89			1:FE=204100
035	tr244421	SAMPLE	173857-002	93529	Soil	06-AUG-2004 12:26	1.0	40.0			2:FE=229700
036	tr244422	SAMPLE	173859-001	93529	Soil	06-AUG-2004 12:30	1.0	45.87			2:FE=259300
037	tr244423	SAMPLE	173848-002	93529	Miscel	06-AUG-2004 12:35	2.0	39.37			
038	tr244424	SAMPLE	173863-001	93529	Miscel	06-AUG-2004 12:41	1.0	53.76	1		4:CA=777000
039	tr244425	CCV				06-AUG-2004 12:46	1.0	1.0		6	
040	tr244426	CCB				06-AUG-2004 12:51	1.0	1.0			
041	tr244427	SAMPLE	173863-001	93529	Miscel	06-AUG-2004 12:55	2.0	53.76			1:CA=421600
042	tr244428	SAMPLE	173865-001	93529	Miscel	06-AUG-2004 12:59	1.0	62.50			2:FE=1096000
043	tr244429	SAMPLE	173865-002	93529	Miscel	06-AUG-2004 13:04	1.0	106.4			2:FE=716400
044	tr244430	SAMPLE	173865-003	93529	Miscel	06-AUG-2004 13:08	1.0	416.7			2:FE=192500
045	tr244431	SAMPLE	173865-004	93529	Miscel	06-AUG-2004 13:12	1.0	227.3			2:FE=154500
046	tr244432	SAMPLE	173865-005	93529	Miscel	06-AUG-2004 13:17	1.0	57.47			2:FE=853600
047	tr244433	SAMPLE	173865-006	93529	Miscel	06-AUG-2004 13:21	1.0	43.86			2:FE=1291000
048	tr244434	SAMPLE	173865-007	93529	Miscel	06-AUG-2004 13:25	1.0	75.76			5:FE=536500
049	tr244435	SAMPLE	173865-008	93529	Miscel	06-AUG-2004 13:29	1.0	46.30			5:FE=1218000
050	tr244436	ICSAB				06-AUG-2004 13:44	1.0	1.0		5	5:MG=534500
051	tr244437	CCV				06-AUG-2004 13:50	1.0	1.0	1	9	
052	tr244438	CCB				06-AUG-2004 13:59	1.0	1.0			

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04SS171 8=04SS172 9=04WS1319

Analyst: K Carlyn Date: 8/6/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 173857 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
173857-001	MET07	08/06/04 12:22	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
173857-001	MET04	08/10/04 11:44	1.0										+							
173857-002	MET07	08/06/04 12:26	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
173857-002	MET04	08/10/04 11:50	1.0										+							
QC260328	MET07	08/06/04 10:35	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC260329	MET07	08/06/04 10:39	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC260330	MET07	08/06/04 10:43	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC260331	MET07	08/06/04 11:33	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC260332	MET07	08/06/04 11:38	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC260333	MET07	08/06/04 10:56	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC260334	MET07	08/06/04 11:28	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC260648	MET04	08/10/04 10:49	1.0										+							
QC260649	MET04	08/10/04 11:06	1.0										+							
QC260650	MET04	08/10/04 11:08	1.0										+							
QC260653	MET04	08/10/04 11:46	1.0										+							
QC260654	MET04	08/10/04 11:48	1.0										+							

Curtis & Tompkins Laboratories **Sample Preparation Summary** **05-AUG-2004 23:37**

Batch Number : 93529
Date Extracted: 05-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173840-001			Tan Phung Associates	Soil	.97	g	50	51.546392	1					T26/ICP		mss
173848-001			ConocoPhillips Company	Miscell.	1.23	g	50	40.650407	1					V		
173848-002			ConocoPhillips Company	Miscell.	1.27	g	50	39.370079	1					V		
173854-001			CH2M Hill Constructors Inc.	Soil	1.06	g	50	47.169811	1					PB		
173854-002			CH2M Hill Constructors Inc.	Soil	1.1	g	50	45.454545	1					PB		
173854-003			CH2M Hill Constructors Inc.	Soil	1	g	50	50.000000	1					PB		
173854-004			CH2M Hill Constructors Inc.	Soil	1.31	g	50	38.167939	1					PB		
173857-001			Treadwell & Rollo	Soil	1.52	g	50	32.894737	1					T26/ICP		
173857-002			Treadwell & Rollo	Soil	1.25	g	50	40.000000	1					T26/ICP		
173859-001			Treadwell & Rollo	Soil	1.09	g	50	45.871560	1					T26/ICP		
173863-001			Burns & McDonnell	Miscell.	.93	g	50	53.763441	1					T26/ICP		
173865-001			URS Corporation	Miscell.	.8	g	50	62.500000	1					PB		
173865-002			URS Corporation	Miscell.	.47	g	50	106.382979	1					PB		
173865-003			URS Corporation	Miscell.	.12	g	50	416.666667	1					PB		
173865-004			URS Corporation	Miscell.	.22	g	50	227.272727	1					PB		
173865-005			URS Corporation	Miscell.	.87	g	50	57.471264	1					PB		
173865-006			URS Corporation	Miscell.	1.14	g	50	43.859649	1					PB		
173865-007			URS Corporation	Miscell.	.66	g	50	75.757576	1					PB		
173865-008			URS Corporation	Miscell.	1.08	g	50	46.296296	1					PB		
QC260328	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC260329	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260330	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260331	MS	of 173840-001		Soil	1.01	g	50	49.504950	1		.5	.5		ICAP		
QC260332	MSD	of 173840-001		Soil	1.17	g	50	42.735043	1		.5	.5		ICAP		
QC260333	SER	of 173840-001		Soil	.97	g	50	51.546392	1					ICAP		
QC260334	PDS	of 173840-001		Soil	.97	g	50	51.546392	1					ICAP		

Prep Chemist: _____ Reviewed By: K Carlyn Date: 8/6/04

Relinquished By: _____ Received By: K Carlyn Date: 8/6/04

td.

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 93529
Date Digested: 8/4/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 29

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK QC 260328	Ø	50.0	Y	
* BS 260329				
* BSD 260330	*			
* 173840-001 MS A	1.01			
* -001 MSD	1.17			
173840-001 A	0.97			MSS
173848-001	1.23			comp A&C
-002	1.27			
173854-001 A	1.06			
-002	1.10			
-003	1.00			
-004	1.31			
173857-001 A	1.52			
-002	1.25			
173859-001 A	1.09			
173863-001 A	0.93			
173865-001 A	0.80			
-002	0.47			
-003	0.12			
-004	0.22			
-005	0.87			
-006	1.14			
-007	0.66			
-008	1.08			

0.5 mL of spike solution was added to all spikes

	Reagent ID or LIMS #	Initials / Date
	OHSS171 *	VV 8/5/04
	OHSS172 *	
digestion temperature (90 - 95 degrees C)	95C	
1:1 HNO3	A16051-080504	
concentrated HNO3	A16051-JTBaker	
3mL 30% hydrogen peroxide	43287349-VWR	
concentrated HCl	A16039-JTBaker	
☒ filtered thru' Whatman # 541	E156057	

8/5/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

8/6/04
Reviewed by / Date

Folder: 081004
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       09:28:39 10 Aug 04   HG

Hg     .000    ppb      2561                                                =

*** Standard: 2 Rep: 1              Seq:  2       09:30:34 10 Aug 04   HG

Hg     .200    ppb      16838                                               =

*** Standard: 3 Rep: 1              Seq:  3       09:32:21 10 Aug 04   HG

Hg     .500    ppb      30838                                               =

*** Standard: 4 Rep: 1              Seq:  4       09:34:11 10 Aug 04   HG

Hg     2.00    ppb      127998                                              =

*** Standard: 5 Rep: 1              Seq:  5       09:36:00 10 Aug 04   HG

Hg     5.00    ppb      323091                                              =

*** Standard: 6 Rep: 1              Seq:  6       09:38:18 10 Aug 04   HG

Hg     10.0    ppb      685286                                              =

*** Check Standard: 2  Ck2WS1491    Seq:  7       10:44:54 10 Aug 04   HG
Line   Flag  %Rcv.   Found    True  Units      SD/RSD
Hg           95.0    4.75    5.00  ppb         .000  %                     =

*** Check Standard: 1  Ck1ICB       Seq:  8       10:47:02 10 Aug 04   HG
Line   Flag  Found Range(+/-) Units      SD/RSD
Hg           .048    .000     ppb        .000  %                           =

*** Sample ID: QC260648             Seq:  9       10:49:29 10 Aug 04   HG
                          93611,1
Hg     .075    ppb       .000  %   .075                                     =
=============================================================================
*** Sample ID: QC260649             Seq:  17      11:06:22 10 Aug 04   HG
                          93611,1
Hg     4.89    ppb       .000  %   4.89                                     =
=============================================================================
*** Sample ID: QC260650             Seq:  18      11:08:13 10 Aug 04   HG
                          93611,1
Hg     4.86    ppb       .000  %   4.86                                     =
=============================================================================
```

WinHg Database 1.3

File Utility Help

Protocol: hgppb

Dataset/Proto: 081004 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A:

B: 1.46870e-5

C: 4.53714e-2

Rho: .999500

Type: Linear

☑ Calibrated

☑ Accepted

Accept

Rel. Abs.

685286

Accepted

New

Include: S1 Rep 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Conc. 20.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.083	.083	2562	0	2561		
02	.20000	.293	.093	16838	0%	16838		
03	.50000	.498	-.002	30839	0%	30838		
04	2.0000	1.93	-.075	127998	0%	127998		
05	5.0000	4.79	-.209	323091	0%	323091		
06	10.000	10.1	.110	685286	0%	685286		

Ready NUM

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44321688 Instrument: MET04 HydraAA HG Analyzer Begun: 10-AUG-2004
Analytical Method: EPA 7470 SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	93611	ICALBLK	Std01Rep1				10-AUG-2004 09:28	1.0	1.0									
002	93611	ICAL	Std02Rep1				10-AUG-2004 09:30	1.0	1.0									
003	93611	ICAL	Std03Rep1				10-AUG-2004 09:32	1.0	1.0									
004	93611	ICAL	Std04Rep1				10-AUG-2004 09:34	1.0	1.0									
005	93611	ICAL	Std05Rep1				10-AUG-2004 09:36	1.0	1.0									
006	93611	ICAL	Std06Rep1				10-AUG-2004 09:38	1.0	1.0									
007	93611	ICV					10-AUG-2004 10:44	1.0	1.0	2	5.000	44321688001	4.750		ug/L	95		
008	93611	ICB					10-AUG-2004 10:47	1.0	1.0			44321688001	[0.04800]	0.20	ug/L			
009	93611	BLANK	QC260648		93611	Soil	10-AUG-2004 10:49	1.0	100.0			44321688001	0.0075 J	0.020	mg/Kg			u
010	93611	BS	QC260649		93611	Soil	10-AUG-2004 11:06	1.0	100.0		0.5000	44321688001	0.4890	0.020	mg/Kg	98		u
011	93611	BSD	QC260650		93611	Soil	10-AUG-2004 11:08	1.0	100.0		0.5000	44321688001	0.4860	0.020	mg/Kg	97	1	u
012	93611	MSS	173840-001		93611	Soil	10-AUG-2004 11:10	1.0	86.21			44321688001	0.59	0.017	mg/Kg			u
013	93611	SAMPLE	173852-001		93611	Soil	10-AUG-2004 11:22	1.0	96.15			44321688001	0.041	0.019	mg/Kg			u
014	93611	SAMPLE	173852-002		93611	Soil	10-AUG-2004 11:24	1.0	100.0			44321688001	ND	0.020	mg/Kg			u
015	93611	SAMPLE	173852-004		93611	Soil	10-AUG-2004 11:26	1.0	94.34			44321688001	0.020	0.019	mg/Kg			u
016	93611	SAMPLE	173852-005		93611	Soil	10-AUG-2004 11:28	1.0	100.0			44321688001	0.025	0.020	mg/Kg			u
017	93611	CCV					10-AUG-2004 11:30	1.0	1.0	3	2.500	44321688001	2.690		ug/L	108		
018	93611	CCB					10-AUG-2004 11:32	1.0	1.0			44321688001	[0.03900]	0.20	ug/L			
019	93611	SAMPLE	173852-008		93611	Soil	10-AUG-2004 11:34	1.0	89.29			44321688001	0.18	0.018	mg/Kg			u
020	93611	SAMPLE	173852-009		93611	Soil	10-AUG-2004 11:35	1.0	87.72			44321688001	ND	0.018	mg/Kg			u
021	93611	SAMPLE	173852-014		93611	Soil	10-AUG-2004 11:37	1.0	98.04			44321688001	0.16	0.020	mg/Kg			u
022	93611	SAMPLE	173852-015		93611	Soil	10-AUG-2004 11:40	1.0	92.59			44321688001	ND	0.019	mg/Kg			u
023	93611	SAMPLE	173852-016		93611	Soil	10-AUG-2004 11:42	1.0	94.34			44321688001	ND	0.019	mg/Kg			u
024	93611	SAMPLE	173857-001		93611	Soil	10-AUG-2004 11:44	1.0	89.29			44321688001	ND	0.018	mg/Kg			u
025	93611	MS	QC260653	173867-001	93611	Soil	10-AUG-2004 11:46	1.0	96.15		0.4808	44321688001	0.6442	0.019	mg/Kg	92		u
026	93611	MSD	QC260654	173867-001	93611	Soil	10-AUG-2004 11:48	1.0	92.59		0.4630	44321688001	0.5917	0.019	mg/Kg	84	6	u
027	93611	SAMPLE	173857-002		93611	Soil	10-AUG-2004 11:50	1.0	98.04			44321688001	ND	0.020	mg/Kg			u
028	93611	MSS	173867-001		93611	Soil	10-AUG-2004 11:52	1.0	98.04			44321688001	0.20	0.098	mg/Kg			u
029	93611	CCV					10-AUG-2004 11:54	1.0	1.0	4	5.000	44321688001	5.370		ug/L	107		
030	93611	CCB					10-AUG-2004 11:55	1.0	1.0			44321688001	[0.05700]	0.20	ug/L			
031	93611	SAMPLE	173867-002		93611	Soil	10-AUG-2004 11:57	1.0	92.59			44321688001	0.20	0.093	mg/Kg			u
032	93611	SAMPLE	173869-001		93611	Soil	10-AUG-2004 11:59	1.0	96.15			44321688001	0.059	0.019	mg/Kg			u
033	93611	SAMPLE	173869-002		93611	Soil	10-AUG-2004 12:01	1.0	94.34			44321688001	0.094	0.019	mg/Kg			u
034	93611	SAMPLE	173885-001		93611	Miscel	10-AUG-2004 12:03	1.0	98.04			44321688001	0.52	0.020	mg/Kg			u
035	93611	SAMPLE	173885-002		93611	Miscel	10-AUG-2004 12:05	1.0	87.72			44321688001	0.081	0.018	mg/Kg			u
036	93611	SAMPLE	173894-004		93611	Soil	10-AUG-2004 12:07	1.0	96.15			44321688001	0.042	0.019	mg/Kg			u
037	93611	SAMPLE	173894-005		93611	Soil	10-AUG-2004 12:09	1.0	100.0			44321688001	0.048	0.020	mg/Kg			u
038	93611	CCV					10-AUG-2004 12:11	1.0	1.0	5	7.500	44321688001	7.610		ug/L	101		
039	93611	CCB					10-AUG-2004 12:13	1.0	1.0			44321688001	[0.009000]	0.20	ug/L			

Stds used: 1=04WS1489 2=04WS1491 3=04WS1492 4=04WS1493 5=04WS1494
Flags used: u=use

Analyst: [signature] Date: 08/10/04

Curtis & Tompkins Laboratories **Sample Preparation Summary** **10-AUG-2004 14:17**

Batch Number : 93611
Date Extracted: 09-AUG-2004
Extracted by : Kristen Ann Carlyon
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : 04WS1489
Spike #2 ID :
Spike #3 ID :

Sample	Type	Client	Matrix	Init w/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173852-001		Blasland, Bouck & Lee	Soil	.52	g	50	96.153846	1					PP13/HG		
173852-002		Blasland, Bouck & Lee	Soil	.5	g	50	100.000000	1					PP13/HG		
173852-004		Blasland, Bouck & Lee	Soil	.53	g	50	94.339623	1					PP13/HG		
173852-005		Blasland, Bouck & Lee	Soil	.5	g	50	100.000000	1					PP13/HG		
173852-008		Blasland, Bouck & Lee	Soil	.56	g	50	89.285714	1					PP13/HG		
173852-009		Blasland, Bouck & Lee	Soil	.57	g	50	87.719298	1					PP13/HG		
173852-014		Blasland, Bouck & Lee	Soil	.51	g	50	98.039216	1					PP13/HG		
173852-015		Blasland, Bouck & Lee	Soil	.54	g	50	92.592593	1					PP13/HG		
173852-016		Blasland, Bouck & Lee	Soil	.53	g	50	94.339623	1					PP13/HG		
173857-001		Treadwell & Rollo	Soil	.56	g	50	89.285714	1					HG		
173857-002		Treadwell & Rollo	Soil	.51	g	50	98.039216	1					HG		
173867-001		Tetra Tech FW	Soil	.51	g	50	98.039216	1					T26/HG		
173867-002		Tetra Tech FW	Soil	.54	g	50	92.592593	1					T26/HG		
173869-001		Blasland, Bouck & Lee	Soil	.52	g	50	96.153846	1					PP13/HG		
173869-002		Blasland, Bouck & Lee	Soil	.53	g	50	94.339623	1					PP13/HG		
173885-001		MWH	Miscell.	.51	g	50	98.039216	1					T26/HG		
173885-002		MWH	Miscell.	.57	g	50	87.719298	1					T26/HG		
173894-004		Northgate Environmental Manage	Soil	.52	g	50	96.153846	1					T26/HG		
173894-005		Northgate Environmental Manage	Soil	.5	g	50	100.000000	1					T26/HG		
QC260648	BLANK		Soil	.5	g	50	100.000000	1					HG		
QC260649	BS		Soil	.5	g	50	100.000000	1		2.5			HG		
QC260650	BSD		Soil	.5	g	50	100.000000	1		2.5			HG		
QC260653	MS	of 173867-001	Soil	.52	g	50	96.153846	1		2.5			HG		
QC260654	MSD	of 173867-001	Soil	.54	g	50	92.592593	1		2.5			HG		

Prep Chemist: K Carlyon Reviewed By: _____ Date: _____

Relinquished By: K Carlyon Received By: _____ Date: _____

Soil Digestion for Mercury

Curtis & Tompkins, Ltd

LIMS Batch #: 93611
Date Digested: 8/9/04
Digested by: KAC

Digestion Method
☒ EPA 7471A
☐ _____

BK 1930
Page 52

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
~~173840-001 KC 8/9~~	~~0.58~~	~~50 mL~~	~~Y~~	~~(MSS)~~
173852-001	0.52			
-002	0.50			
-004	0.53			
-005	0.50			
-008	0.56			
-009	0.57			
-014	0.51			
-015	0.54			
-016	0.53			
173857-001	0.56			
-002	0.51			
173867-001	0.51			(MSS)
-002	0.54			
173869-001	0.52			
-002	0.53			
173885-001	0.51			
-002	0.57			
173894-004	0.52			
-005	0.50			
MB QC260648	0.50			
★ BS QC260649	0.50			
★ BSD QC260650	0.50			
KC 8/9 ~~173840-001 MS~~	~~0.52~~			
KC 8/9 ~~-001 MSD~~	~~0.50~~			
★ ~~173867-001 KC~~ ~~173857-001 BS~~	0.52		Y	
★ ~~173867-001 KC~~ ~~173857-001 MSD~~	0.54		Y	

~~0.5~~ mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
	04WS1489	KC 08/09/04
ICAL Source WS#	04WS1489	
ICV / CCV WS#	04WS1491/92/93/94	
Digestion of Samples & Standards: Time ON / Temperature ON	935 / 95°C	
Time OFF/ Temperature OFF	1005 / 95°C	
Aqua Regia	AR080904	
5% $KMnO_4$	K080404	
NaCl.hydroxylamine hydrochloride	H080804	MS 8/10
Stannous Chloride	Snell/081004	
☒ filtered thru' 0.45 um syringe filter	R3NN60036 Millipore	

K Carlyon 8/9/04
Prep Chemist / Date

Continued from page ~~0~~

Continued on page ~~0~~

08/10/04
Reviewed by / Date

TAL/ ICP Metals	Trace ICP MET-07	Vertical ICP MET-01	ICP-MS* MET-05
Soil MDLs (mg/Kg)	7/20/04	7/20/04	5/26/04
Antimony	0.20	1.3	0.060
Arsenic	0.10	2.8	0.082
Barium	0.013	0.098	0.025
Beryllium	0.006	0.029	0.052
Cadmium	0.028	0.14	0.011
Chromium	0.033	0.29	0.052
Cobalt	0.076	0.39	0.004
Copper	0.057	0.11	0.097
Lead	0.065	7.9	0.008
Molybdenum	0.062	0.43	0.005
Nickel	0.067	0.64	0.30
Selenium	0.17	8.1	0.097
Silver	0.098	0.18	0.003
Thallium	0.21	9.5	0.013
Vanadium	0.045	0.14	0.15
Zinc	0.17	0.17	0.056
Aluminum	0.52	1.5	0.58
Calcium	0.58	2.8	2.8
Iron	0.80	1.5	0.93
Magnesium	0.52	1.5	0.34
Manganese	0.11	0.11	0.019
Potassium	- -	18	1.1
Sodium	- -	2.8	4.2

* MDL calculation includes the 5x dilution which is standard for ICP-MS soils.

CVAA / Flame AA

Soil MDLs (mg/Kg)	MDL	Analyzed	Instrument
Mercury (EPA 7471A)	0.004	3/30/04	MET-04
	0.005	5/15/03	MET-03
Organic Lead (CA LUFT)	0.22	4/04/03	JE 4000

Miscellaneous Metals (EPA 6010B)	Vertical ICP MET-01
Soil MDLs (mg/Kg)	5/14/03
Boron	1.7
Tin	0.89
Titanium	0.14

ICP Raw Data

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74315873 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr244387	CS				06-AUG-2004 08:33	1.0	1.0			1	
002	tr244388	ICV				06-AUG-2004 08:38	1.0	1.0			2	
003	tr244389	ICB				06-AUG-2004 08:42	1.0	1.0				
004	tr244390	CRI				06-AUG-2004 08:47	1.0	1.0			3	
005	tr244391	ICSA				06-AUG-2004 08:58	1.0	1.0	1		4	4:MG=533800
006	tr244392	ICSAB				06-AUG-2004 09:07	1.0	1.0			5	5:MG=522600
007	tr244393	BLANK	QC260325	93528	Wipe	06-AUG-2004 09:29	1.0	50.0	2			
008	tr244394	BS	QC260326	93528	Wipe	06-AUG-2004 09:33	1.0	50.0	2			
009	tr244395	BSD	QC260327	93528	Wipe	06-AUG-2004 09:38	1.0	50.0	2	1		
010	tr244396	SAMPLE	173780-001	93528	Wipe	06-AUG-2004 09:44	1.0	50.0				
011	tr244397	SAMPLE	173780-002	93528	Wipe	06-AUG-2004 09:48	1.0	50.0				
012	tr244398	SAMPLE	173844-001	93528	Wipe	06-AUG-2004 09:52	1.0	50.0				
013	tr244399	SAMPLE	173844-002	93528	Wipe	06-AUG-2004 09:56	1.0	50.0				
014	tr244400	CCV				06-AUG-2004 10:09	1.0	1.0	1		6	
015	tr244401	CCB				06-AUG-2004 10:24	1.0	1.0				
016	tr244402	SAMPLE	173844-003	93528	Wipe	06-AUG-2004 10:30	1.0	50.0				
017	tr244403	BLANK	QC260328	93529	Soil	06-AUG-2004 10:35	1.0	50.0	2			
018	tr244404	BS	QC260329	93529	Soil	06-AUG-2004 10:39	1.0	50.0	2			
019	tr244405	BSD	QC260330	93529	Soil	06-AUG-2004 10:43	1.0	50.0	2			
020	tr244406	MSS	173840-001	93529	Soil	06-AUG-2004 10:49	1.0	51.55	5			5:MG=1267000
021	tr244407	SER	QC260333	93529	Soil	06-AUG-2004 10:56	5.0	51.55		1		2:MG=240900
022	tr244408	X	QC260334	93529	Soil	06-AUG-2004 11:08	1.0	51.55			7 8	5:MG=1271000
023	tr244409	PDS	QC260334	93529	Soil	06-AUG-2004 11:28	1.0	51.55			7 8	5:MG=1277000
024	tr244410	MS	QC260331	93529	Soil	06-AUG-2004 11:33	1.0	49.50		1		5:MG=1551000
025	tr244411	MSD	QC260332	93529	Soil	06-AUG-2004 11:38	1.0	42.74		3		5:MG=1574000
026	tr244412	SAMPLE	173848-001	93529	Miscel	06-AUG-2004 11:44	1.0	40.65				
027	tr244413	CCV				06-AUG-2004 11:50	1.0	1.0			9	
028	tr244414	CCB				06-AUG-2004 11:54	1.0	1.0				
029	tr244415	SAMPLE	173848-002	93529	Miscel	06-AUG-2004 12:01	1.0	39.37	1			1:V=20800.0
030	tr244416	SAMPLE	173854-001	93529	Soil	06-AUG-2004 12:05	1.0	47.17				2:FE=347300
031	tr244417	SAMPLE	173854-002	93529	Soil	06-AUG-2004 12:09	1.0	45.45				3:FE=476000

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04SS171 8=04SS172 9=04WS1319

Analyst: K Carlyn Date: 8/6/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74315873 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr244418	SAMPLE	173854-003	93529	Soil	06-AUG-2004 12:13	1.0	50.0			3:CA=301200
033	tr244419	SAMPLE	173854-004	93529	Soil	06-AUG-2004 12:18	1.0	38.17			4:CA=486700
034	tr244420	SAMPLE	173857-001	93529	Soil	06-AUG-2004 12:22	1.0	32.89			1:FE=204100
035	tr244421	SAMPLE	173857-002	93529	Soil	06-AUG-2004 12:26	1.0	40.0			2:FE=229700
036	tr244422	SAMPLE	173859-001	93529	Soil	06-AUG-2004 12:30	1.0	45.87			2:FE=259300
037	tr244423	SAMPLE	173848-002	93529	Miscel	06-AUG-2004 12:35	2.0	39.37			
038	tr244424	SAMPLE	173863-001	93529	Miscel	06-AUG-2004 12:41	1.0	53.76	1		4:CA=777000
039	tr244425	CCV				06-AUG-2004 12:46	1.0	1.0		6	
040	tr244426	CCB				06-AUG-2004 12:51	1.0	1.0			
041	tr244427	SAMPLE	173863-001	93529	Miscel	06-AUG-2004 12:55	2.0	53.76			1:CA=421600
042	tr244428	SAMPLE	173865-001	93529	Miscel	06-AUG-2004 12:59	1.0	62.50			2:FE=1096000
043	tr244429	SAMPLE	173865-002	93529	Miscel	06-AUG-2004 13:04	1.0	106.4			2:FE=716400
044	tr244430	SAMPLE	173865-003	93529	Miscel	06-AUG-2004 13:08	1.0	416.7			2:FE=192500
045	tr244431	SAMPLE	173865-004	93529	Miscel	06-AUG-2004 13:12	1.0	227.3			2:FE=154500
046	tr244432	SAMPLE	173865-005	93529	Miscel	06-AUG-2004 13:17	1.0	57.47			2:FE=853600
047	tr244433	SAMPLE	173865-006	93529	Miscel	06-AUG-2004 13:21	1.0	43.86			2:FE=1291000
048	tr244434	SAMPLE	173865-007	93529	Miscel	06-AUG-2004 13:25	1.0	75.76			5:FE=536500
049	tr244435	SAMPLE	173865-008	93529	Miscel	06-AUG-2004 13:29	1.0	46.30			5:FE=1218000
050	tr244436	ICSAB				06-AUG-2004 13:44	1.0	1.0		5	5:MG=534500
051	tr244437	CCV				06-AUG-2004 13:50	1.0	1.0	1	9	
052	tr244438	CCB				06-AUG-2004 13:59	1.0	1.0			

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04SS171 8=04SS172 9=04WS1319

Analyst: K Carlyn Date: 8/6/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 74315873034	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr244420	Batchnum	: 93529	Injected	: 06-AUG-2004 12:22
IDF	: 1.0			Units	: mg/Kg

Prep: 1.52 g --> 50.0 ml = 32.89 ml/g PDF

Analyte	Result	RL	B=tr244403	Flags
Antimony	ND	2.0		u
Arsenic	2.0	0.16		u
Barium	9.1	0.33		u
Beryllium	0.080	0.066		u
Cadmium	ND	0.16		u
Chromium	23	0.33		u
Cobalt	3.3	0.66		u
Copper	2.2	0.33	0.13	u
Lead	1.4	0.099		u
Molybdenum	ND	0.66		u
Nickel	14	0.66		u
Selenium	ND	0.16		u
Silver	ND	0.16		u
Thallium	ND	0.16		u
Vanadium	19	0.33		u
Zinc	10	0.66	0.16	u

u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 74315873035	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr244421	Batchnum	: 93529	Injected	: 06-AUG-2004 12:26
IDF	: 1.0			Units	: mg/Kg

Prep: 1.25 g --> 50.0 ml = 40.0 ml/g PDF

Analyte	Result	RL	B=tr244403	Flags
Antimony	ND	2.4		u
Arsenic	2.4	0.20		u
Barium	9.4	0.40		u
Beryllium	0.10	0.080		u
Cadmium	ND	0.20		u
Chromium	30	0.40		u
Cobalt	4.6	0.80		u
Copper	3.0	0.40	0.13	u
Lead	1.6	0.12		u
Molybdenum	ND	0.80		u
Nickel	19	0.80		u
Selenium	ND	0.20		u
Silver	ND	0.20		u
Thallium	ND	0.20		u
Vanadium	26	0.40		u
Zinc	13	0.80	0.16	u

u=use

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	QC260328	Cident	:
Seqnum	: 74315873017	Matrix	: Soil	Acctnum	:
Filename	: tr244403	Batchnum	: 93529	Injected	: 06-AUG-2004 10:35
IDF	: 1.0			Units	: mg/Kg

Prep: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Result	RL	Flags
Aluminum	ND	5.0	<c- b*
Antimony	ND	3.0	u
Arsenic	ND	0.25	u
Barium	ND	0.50	u
Beryllium	ND	0.10	u
Cadmium	ND	0.25	u
Calcium	3.4 J	25	
Chromium	ND	0.50	u
Cobalt	ND	1.0	u
Copper	0.13 J	0.50	u
Iron	0.85 J	5.0	
Lead	ND	0.15	u
Magnesium	ND	25	
Manganese	ND	0.50	
Molybdenum	ND	1.0	u
Nickel	ND	1.0	u
Selenium	ND	0.25	u
Silver	ND	0.25	u
Thallium	ND	0.25	u
Vanadium	ND	0.50	u
Zinc	0.16 J	1.0	u
Titanium	ND	0.50	a+ b*

+=high bias -=low bias <=opening a=ICSA b=noncompliant c=CCV u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74315873018	Seqnum	: 74315873019
Filename	: tr244404	Filename	: tr244405
IDF	: 1.0	IDF	: 1.0
Run type	: BS	Run type	: BSD
Samplenum	: QC260329	Samplenum	: QC260330
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93529	Batchnum	: 93529
Inj	: 06-AUG-2004 10:39	Inj	: 06-AUG-2004 10:43
Units	: mg/Kg		

BS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
BSD: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Spike Conc	BS	%Rec	BSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	990.0	99	1002	100	73-120	1	20	<c- b*
Antimony	100.0	97.50	98	99.50	100	79-128	2	20	u
Arsenic	50.00	49.40	99	49.90	100	79-120	1	20	u
Barium	100.0	97.50	98	98.50	99	80-120	1	20	u
Beryllium	2.500	2.505	100	2.530	101	80-120	1	20	u
Cadmium	10.00	9.700	97	9.800	98	79-120	1	20	u
Calcium	1000	980.0	98	991.5	99	75-120	1	20	
Chromium	100.0	98.00	98	99.50	100	80-120	2	20	u
Cobalt	25.00	24.35	97	24.60	98	77-120	1	20	u
Copper	12.50	12.70	102	12.85	103	80-120	1	20	u
Iron	1000	948.5	95	960.0	96	78-120	1	20	
Lead	100.0	98.50	99	99.00	99	78-120	1	20	u
Magnesium	1000	999.5	100	1012	101	78-120	1	20	
Manganese	25.00	24.25	97	24.50	98	76-120	1	20	
Molybdenum	20.00	20.15	101	20.45	102	80-120	1	20	u
Nickel	25.00	24.30	97	24.50	98	79-120	1	20	u
Selenium	50.00	48.95	98	49.20	98	71-120	1	20	u
Silver	10.00	10.00	100	10.05	101	78-120	0	20	u
Thallium	50.00	48.90	98	49.40	99	73-120	1	20	u
Vanadium	25.00	24.95	100	25.15	101	80-120	1	20	u
Zinc	25.00	23.90	96	24.15	97	76-120	1	20	u
Titanium	50.00	50.50	101	51.00	102	77-120	1	20	a+ b*

+=high bias -=low bias <=opening a=ICSA b=noncompliant c=CCV u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74315873020	Seqnum : 74315873024	Seqnum : 74315873025
Filename : tr244406	Filename : tr244410	Filename : tr244411
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173840-001	Samplenum: QC260331	Samplenum: QC260332
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 93529	Batchnum : 93529	Batchnum : 93529
Inj : 06-AUG-2004 10:49	Inj : 06-AUG-2004 11:33	Inj : 06-AUG-2004 11:38
Units : mg/Kg		

MSS: 0.97 g --> 50.0 ml = 51.55 ml/g PDF
MS: 1.01 g --> 50.0 ml = 49.50 ml/g PDF
MSD: 1.17 g --> 50.0 ml = 42.74 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***									
Antimony	3.067	85.47	30.45	28	24.70	25	1-120	7	44	u
Arsenic	3.521	42.74	48.81	91	41.50	89	57-120	3	28	u
Barium	124.2	85.47	202.0	79	193.6	81	52-134	2	20	u
Beryllium	0.1825	2.137	2.406	90	2.060	88	65-120	2	20	u
Cadmium	1.129	8.547	9.257	82	7.991	80	57-120	2	20	u
Calcium	*** usable MSS data not found ***									
Chromium	218.6	85.47	353.5	136*	343.2	146*	55-120	1	20	u
Cobalt	31.96	21.37	57.43	103	49.15	80	52-120	9	20	u
Copper	46.96	10.68	53.47	53	82.91	336	47-143	46*	21	: u
Iron	*** usable MSS data not found ***									
Lead	10.67	85.47	92.08	82	94.02	98	42-125	15	30	u
Magnesium	*** usable MSS data not found ***									
Manganese	757.7	21.37	722.8	-141	756.4	-6	34-141	5	20	:
Molybdenum	0.3830	17.09	17.72	88	15.00	86	45-120	2	20	u
Nickel	437.6	21.37	569.3	532	426.1	-54	36-138	28*	24	: u
Selenium	ND	42.74	44.85	91	37.65	88	42-120	3	23	u
Silver	ND	8.547	9.554	97	8.162	96	66-120	1	20	u
Thallium	ND	42.74	41.34	84	34.96	82	48-120	2	25	u
Vanadium	54.64	21.37	73.76	77	69.23	68	45-136	2	20	u
Zinc	67.01	21.37	79.21	49	90.17	108	34-139	17	24	u
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful u=use
Page 1 of 1

Analysis Report 08/06/04 08:37:55 AM page 1

Method: 6010B Sample Name: 04ws1252 Operator: hdd
Run Time: 08/06/04 08:33:29
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	998.	1000.	509.	996.	101.	101.	202.
SDev	18.	8.	.	1.	.	.	.
%RSD	1.82	.755	.055	.076	.447	.367	.066
#1	985.	997.	509.	996.	101.	101.	202.
#2	1010.	1010.	509.	995.	101.	102.	202.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	506.	200.	506.	500.	1010.	506.	509.
SDev	1.	.	1.	8.	20.	1.	3.
%RSD	.295	.176	.163	1.69	2.01	.253	.577
#1	505.	200.	506.	494.	997.	505.	511.
#2	507.	200.	507.	506.	1030.	507.	507.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	501.	100.	501.	503.	101.	1002.	2031.
SDev	7.	.	4.	1.	.	7.	10.
%RSD	1.43	.004	.785	.194	.261	.6523	.4990
#1	496.	100.	498.	503.	101.	1007.	2023.
#2	506.	100.	504.	504.	101.	997.3	2038.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1016.	2026.	101.	502.	1000.	504.	1000.
SDev	3.	11.	.	6.	11.	4.	3.
%RSD	.2572	.5192	.324	1.18	1.11	.754	.288
#1	1014.	2018.	101.	498.	993.	501.	1000.
#2	1018.	2033.	101.	506.	1010.	506.	1010.

Analysis Report 08/06/04 08:42:05 AM page 1

Method: 6010B Sample Name: 04ws1316 Operator: hdd
Run Time: 08/06/04 08:38:50
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.	512.	253.	487.	50.2	50.9	101.
SDev	8.	2.	3.	1.	.4	.2	1.
%RSD	1.55	.297	1.11	.229	.756	.380	.570
#1	502.	511.	251.	486.	49.9	50.8	101.
#2	513.	513.	255.	487.	50.4	51.1	102.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	101.	256.	249.	513.	252.	250.
SDev	1.	.	1.	2.	10.	1.	2.
%RSD	.353	.121	.210	.838	1.86	.470	.780
#1	246.	100.	256.	248.	506.	251.	248.
#2	247.	101.	256.	251.	520.	252.	251.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249.	50.3	240.	248.	50.7	485.8	1018.
SDev	.	.1	7.	1.	.4	4.4	6.
%RSD	.054	.180	3.10	.480	.693	.9136	.5559
#1	249.	50.3	235.	247.	50.5	489.0	1014.
#2	249.	50.2	246.	249.	51.0	482.7	1022.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	489.4	1014.	49.1	251.	511.	249.	505.
SDev	.7	6.	.3	1.	4.	1.	2.
%RSD	.1375	.6056	.570	.482	.714	.296	.338
#1	489.0	1010.	48.9	251.	508.	249.	504.
#2	489.9	1019.	49.3	252.	513.	250.	506.

Analysis Report 08/06/04 08:46:11 AM page 1

Method: 6010B Sample Name: icb Operator: hdd
Run Time: 08/06/04 08:42:41
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.30	-3.13	1.84	.076	-.298	-.153	.129
SDev	.86	1.11	1.02	.015	.102	.080	.088
%RSD	16.2	35.5	55.3	19.2	34.4	52.2	67.8
#1	5.91	-3.92	1.12	.087	-.226	-.209	.067
#2	4.70	-2.34	2.56	.066	-.370	-.096	.191

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.169	.377	.362	-.156	2.98	-.345	-6.69
SDev	.216	.367	.654	.229	.48	.210	2.49
%RSD	128.	97.5	181.	147.	16.1	60.9	37.2
#1	.016	.117	.825	-.318	3.32	-.493	-4.93
#2	.322	.636	-.101	.006	2.64	-.196	-8.45

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.27	-.257	1.43	-.166	1.05	-.7676	4.259
SDev	.98	.235	2.57	.090	.07	1.3252	.847
%RSD	76.7	91.5	180.	54.4	6.69	172.7	19.88
#1	.582	-.423	-.386	-.102	.998	-1.705	4.857
#2	1.96	-.091	3.25	-.229	1.10	.1695	3.660

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.555	2.059	.010	.017	-.320	-1.38	1.95
SDev	1.208	1.550	.006	.066	.455	.18	.17
%RSD	26.52	75.29	61.8	393.	142.	13.0	8.95
#1	3.701	.9628	.014	.063	-.641	-1.26	1.82
#2	5.409	3.155	.005	-.030	.002	-1.51	2.07

Method: 6010B Sample Name: 04ws1044 Operator: hdd
Run Time: 08/06/04 08:47:38
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	62.8	61.0	6.63	9.81	1.62	5.11	10.5
SDev	1.0	1.4	1.76	.16	.01	.12	.4
%RSD	1.55	2.35	26.6	1.66	.765	2.43	3.66
#1	63.5	60.0	7.87	9.69	1.61	5.03	10.2
#2	62.1	62.1	5.38	9.92	1.63	5.20	10.7

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.0	10.7	4.47	1.87	20.7	20.1	1.17
SDev	.7	.2	.33	1.66	.5	.3	1.48
%RSD	3.34	1.83	7.46	88.5	2.56	1.31	127.
#1	19.5	10.5	4.23	3.04	20.3	19.9	2.22
#2	20.5	10.8	4.71	.701	21.1	20.3	.120

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.27	5.23	6.18	10.2	21.1	98.52	221.1
SDev	.66	.10	3.33	.5	.2	.58	1.0
%RSD	7.12	1.84	54.0	4.45	.944	.5890	.4414
#1	8.80	5.17	8.54	9.90	20.9	98.11	220.4
#2	9.74	5.30	3.82	10.5	21.2	98.93	221.8

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	136.8	209.6	10.1	2.74	61.6	6.57	2.28
SDev	4.3	4.1	.1	.99	.6	.05	.23
%RSD	3.147	1.974	1.36	36.2	1.03	.815	10.2
#1	133.8	206.6	9.97	3.44	61.2	6.61	2.12
#2	139.9	212.5	10.2	2.04	62.1	6.53	2.45

Analysis Report 08/06/04 09:01:39 AM page 1

Method: 6010B Sample Name: 04ws1124 Operator: kac
Run Time: 08/06/04 08:58:08
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.74	8.31	4.24	.109	-1.45	.860	3.57
SDev	1.24	2.90	3.92	.011	.07	.196	.21
%RSD	33.2	34.8	92.4	10.3	4.91	22.8	5.75
#1	2.86	10.4	7.01	.117	-1.40	.721	3.43
#2	4.62	6.27	1.47	.101	-1.50	.999	3.72

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.07	-2.64	-20.5	9.38	-.592	1.94	-7.50
SDev	.54	.27	1.3	.66	.328	.47	3.27
%RSD	50.0	10.4	6.36	7.05	55.4	24.1	43.6
#1	1.45	-2.45	-19.5	8.91	-.360	2.27	-9.82
#2	.694	-2.84	-21.4	9.84	-.823	1.61	-5.19

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.19	.117	-2.21	-3.36	1.12	519800.	466600.
SDev	2.41	.532	8.39	.24	.09	9707.	7571.
%RSD	202.	455.	380.	7.05	8.27	1.867	1.623
#1	-2.90	.494	-8.14	-3.19	1.06	513000.	461300.
#2	.515	-.259	3.73	-3.52	1.19	526700.	472000.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	182700.	533800.	2.10	-.569	6.79	-3.30	25.2
SDev	3203.	9079.	.03	.007	1.52	2.70	.5
%RSD	1.754	1.701	1.32	1.23	22.3	81.9	2.00
#1	180400.	527400.	2.12	-.574	7.86	-5.21	24.8
#2	184900.	540200.	2.08	-.564	5.72	-1.39	25.5

Analysis Report 08/06/04 09:11:44 AM page 1

Method: 6010B Sample Name: 04ws1256 Operator: kac
Run Time: 08/06/04 09:07:21
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503.	500.	497.	441.	483.	886.	453.
SDev	.	23.	3.	2.	2.	1.	1.
%RSD	.034	4.65	.689	.400	.318	.113	.273
#1	503.	484.	494.	443.	482.	885.	452.
#2	503.	517.	499.	440.	484.	887.	454.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	462.	488.	921.	924.	477.	869.	510.
SDev	1.	.	28.	.	8.	2.	16.
%RSD	.139	.080	3.09	.044	1.67	.259	3.10
#1	461.	488.	901.	925.	471.	867.	499.
#2	462.	488.	941.	924.	483.	870.	521.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	489.	828.	464.	458.	951.	504400.	458300.
SDev	4.	.	14.	.	2.	339.	2500.
%RSD	.901	.018	3.10	.109	.178	.0672	.5455
#1	492.	828.	474.	458.	950.	504200.	456500.
#2	486.	828.	454.	459.	952.	504600.	460000.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	178500.	522600.	453.	923.	501.	496.	20100.
SDev	748.	1958.	2.	9.	15.	2.	25.
%RSD	.4191	.3746	.342	.997	3.08	.473	.124
#1	178000.	521200.	452.	917.	490.	494.	20100.
#2	179000.	524000.	454.	930.	512.	498.	20100.

Method: 6010B Sample Name: 04ws1317 Operator: kac
Run Time: 08/06/04 10:09:38
Comment: 93528,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	514.	515.	250.	496.	50.0	51.1	101.
SDev	6.	1.	4.	2.	.0	.2	.
%RSD	1.17	.141	1.51	.421	.059	.387	.132
#1	509.	515.	247.	498.	49.9	51.3	101.
#2	518.	514.	253.	495.	50.0	51.0	102.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246.	103.	253.	252.	511.	253.	250.
SDev	1.	.	1.	3.	7.	1.	4.
%RSD	.224	.219	.220	.997	1.30	.346	1.54
#1	247.	103.	253.	251.	507.	253.	248.
#2	246.	103.	253.	254.	516.	252.	253.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	50.1	246.	249.	51.4	430.5	1018.
SDev	5.	.1	5.	1.	.5	10.2	2.
%RSD	1.98	.270	1.90	.214	1.06	2.377	.1555
#1	244.	50.0	242.	249.	51.7	437.7	1019.
#2	251.	50.2	249.	248.	51.0	423.2	1017.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	498.8	1009.	49.1	253.	515.	248.	508.
SDev	5.8	1.	.0	1.	2.	5.	1.
%RSD	1.171	.1144	.071	.591	.296	1.83	.132
#1	502.9	1010.	49.1	252.	513.	245.	508.
#2	494.6	1008.	49.1	254.	516.	251.	507.

Method: 6010B Sample Name: ccb Operator: kac
Run Time: 08/06/04 10:24:01
Comment: 93528,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.62	-1.97	.429	.043	-.361	-.226	.396
SDev	2.94	.59	2.12	.045	.020	.013	.335
%RSD	81.3	30.1	495.	105.	5.43	5.78	84.6
#1	1.54	-1.55	1.93	.075	-.375	-.217	.632
#2	5.70	-2.39	-1.07	.011	-.347	-.235	.159

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.545	2.09	.053	.158	1.02	-.451	-1.15
SDev	.018	.22	.972	2.60	.26	.072	2.50
%RSD	3.34	10.8	1850.	1650.	26.1	15.9	218.
#1	.532	2.25	.740	-1.68	1.20	-.400	.621
#2	.558	1.93	-.635	2.00	.829	-.502	-2.92

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.66	.269	2.57	-.059	1.19	23.41	26.05
SDev	5.21	.493	.22	.074	.09	.65	1.97
%RSD	142.	183.	8.52	125.	7.87	2.772	7.564
#1	-7.34	.618	2.72	-.007	1.26	22.95	27.44
#2	.023	-.079	2.41	-.111	1.13	23.86	24.65

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.79	2.918	.015	.123	-.106	-2.82	1.92
SDev	3.12	1.600	.025	1.41	.586	2.64	.20
%RSD	26.43	54.83	163.	1150.	556.	93.4	10.3
#1	13.99	4.050	.033	-.875	-.520	-4.69	2.06
#2	9.587	1.787	-.002	1.12	.309	-.958	1.78

Analysis Report 08/06/04 10:39:01 AM page 1

Method: 6010B Sample Name: qc260328 Operator: kac
Run Time: 08/06/04 10:35:12
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.481	-3.90	-1.81	.149	-.462	.231	.812
SDev	.883	.47	.53	.159	.285	.171	.313
%RSD	184.	12.1	29.5	107.	61.7	74.0	38.6
#1	-.143	-4.23	-2.19	.261	-.664	.110	1.03
#2	1.11	-3.56	-1.43	.037	-.260	.351	.591

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.192	2.56	2.33	-.917	-.172	.478	-4.50
SDev	.356	.30	2.13	.830	.267	.439	.84
%RSD	185.	11.7	91.5	90.5	156.	91.9	18.7
#1	.443	2.77	3.83	-1.50	.017	.788	-5.09
#2	-.059	2.35	.822	-.330	-.360	.167	-3.91

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.90	.389	-2.94	.097	3.24	15.73	67.39
SDev	2.29	.708	.16	.336	.20	7.91	3.26
%RSD	120.	182.	5.33	345.	6.24	50.30	4.836
#1	.286	.889	-2.83	.335	3.38	21.33	69.70
#2	3.52	-.112	-3.05	-.140	3.09	10.14	65.09

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.05	2.406	.114	.163	-2.44	-.231	2.45
SDev	3.78	.189	.047	.155	.61	1.805	.25
%RSD	22.16	7.866	40.8	95.0	24.9	782.	10.2
#1	19.72	2.539	.147	.273	-2.87	-1.51	2.63
#2	14.38	2.272	.081	.054	-2.01	1.05	2.28

Analysis Report 08/06/04 10:43:17 AM page 1

Method: 6010B Sample Name: qc260329 Operator: kac
Run Time: 08/06/04 10:39:28
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1930.	1950.	988.	1950.	50.1	194.	1960.
SDev	29.	52.	24.	69.	1.0	6.	52.
%RSD	1.50	2.67	2.47	3.53	1.94	3.16	2.66
#1	1910.	1990.	1000.	2000.	50.8	198.	2000.
#2	1950.	1920.	970.	1900.	49.5	190.	1930.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	487.	254.	1990.	1960.	403.	486.	973.
SDev	13.	8.	65.	5.	3.	15.	30.
%RSD	2.70	3.20	3.25	.277	.719	3.03	3.12
#1	496.	260.	2040.	1960.	405.	496.	994.
#2	478.	249.	1950.	1960.	401.	475.	951.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	982.	200.	978.	499.	478.	19800.	19600.
SDev	4.	6.	5.	14.	14.	580.	499.
%RSD	.415	3.00	.556	2.80	2.85	2.927	2.549
#1	979.	204.	982.	508.	488.	20210.	19950.
#2	985.	196.	974.	489.	468.	19390.	19240.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18970.	19990.	485.	1970.	1950.	979.	1010.
SDev	498.	520.	13.	18.	25.	7.	28.
%RSD	2.625	2.603	2.66	.910	1.29	.757	2.76
#1	19320.	20360.	494.	1980.	1960.	984.	1030.
#2	18620.	19620.	475.	1960.	1930.	974.	991.

Analysis Report 08/06/04 10:47:33 AM page 1

Method: 6010B Sample Name: qc260330 Operator: kac
Run Time: 08/06/04 10:43:44
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1960.	2000.	998.	1970.	50.6	196.	1990.
SDev	63.	16.	1.	6.	.3	.	10.
%RSD	3.19	.804	.118	.304	.516	.052	.490
#1	1920.	1990.	999.	1970.	50.5	196.	1980.
#2	2010.	2010.	997.	1960.	50.8	196.	1990.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	492.	257.	2010.	1960.	409.	490.	982.
SDev	1.	1.	4.	44.	7.	.	4.
%RSD	.257	.269	.220	2.22	1.80	.054	.408
#1	491.	257.	2010.	1930.	404.	490.	985.
#2	493.	258.	2010.	2000.	414.	490.	979.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	985.	201.	988.	503.	483.	20040.	19830.
SDev	16.	.	26.	2.	2.	81.	92.
%RSD	1.59	.141	2.67	.357	.400	.4036	.4621
#1	974.	201.	969.	502.	481.	19980.	19770.
#2	996.	201.	1010.	505.	484.	20090.	19900.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19200.	20230.	490.	1980.	1990.	984.	1020.
SDev	110.	98.	2.	31.	32.	9.	4.
%RSD	.5722	.4821	.375	1.54	1.59	.924	.396
#1	19120.	20160.	489.	1960.	1970.	978.	1020.
#2	19270.	20300.	491.	2000.	2010.	990.	1030.

Analysis Report 08/06/04 10:53:22 AM page 1

Method: 6010B Sample Name: 173840-001 Operator: kac
Run Time: 08/06/04 10:49:33
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	59.7	59.4	68.3	2410.	3.54	21.9	4240.
SDev	19.1	15.1	4.5	7.	.04	1.1	27.
%RSD	32.0	25.3	6.56	.283	1.06	5.13	.640
#1	46.2	70.1	71.5	2420.	3.52	22.6	4220.
#2	73.2	48.8	65.2	2410.	3.57	21.1	4260.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	620.	911.	206.	207.	7.43	8490.	-12.6
SDev	2.	2.	13.	16.	1.77	14.	15.8
%RSD	.370	.206	6.31	7.61	23.9	.164	125.
#1	619.	910.	215.	196.	8.69	8480.	-1.50
#2	622.	913.	197.	218.	6.18	8500.	-23.8

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.66	-1.17	-24.8	1060.	1300.	341900.	227500.
SDev	11.4	1.05	.9	.	6.	1975.	1562.
%RSD	244.	89.3	3.57	.017	.488	.5777	.6866
#1	-3.39	-.432	-25.4	1060.	1290.	340500.	226400.
#2	12.7	-1.91	-24.2	1060.	1300.	343300.	228600.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	597000.	1267000.	14700.	207.	59.5	-1.10	19400.
SDev	4530.	9046.	134.	6.	3.7	2.35	140.
%RSD	.7588	.7142	.915	2.99	6.18	213.	.722
#1	593800.	1260000.	14600.	202.	62.1	-2.76	19300.
#2	600200.	1273000.	14800.	211.	56.9	.557	19500.

Analysis Report 08/06/04 10:59:59 AM page 1

Method: 6010B Sample Name: qc260333 Operator: kac
Run Time: 08/06/04 10:56:21
Comment: 93529,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.1	7.84	12.5	455.	.442	2.50	858.
SDev	2.3	3.57	1.1	1.	.016	.16	5.
%RSD	12.1	45.5	9.13	.316	3.59	6.35	.639
#1	17.5	10.4	11.7	454.	.454	2.61	854.
#2	20.8	5.32	13.3	456.	.431	2.39	862.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	127.	169.	40.4	41.7	.713	1780.	-5.43
SDev	1.	1.	2.0	1.2	1.29	6.	2.22
%RSD	.861	.692	5.00	2.78	182.	.354	40.9
#1	126.	169.	41.9	40.9	1.63	1780.	-7.00
#2	128.	170.	39.0	42.5	-.202	1790.	-3.86

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.68	.035	-2.00	210.	258.	64430.	47080.
SDev	.91	.573	2.05	.	2.	573.	291.
%RSD	13.6	1620.	103.	.205	.791	.8888	.6191
#1	7.32	.440	-3.46	210.	256.	64020.	46880.
#2	6.03	-.370	-.550	211.	259.	64830.	47290.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	119200.	240900.	2760.	41.3	11.6	2.64	3560.
SDev	1023.	1739.	20.	.1	1.6	.13	30.
%RSD	.8585	.7217	.730	.236	13.8	5.10	.852
#1	118500.	239700.	2740.	41.2	12.7	2.55	3530.
#2	119900.	242200.	2770.	41.3	10.5	2.74	3580.

Analysis Report 08/06/04 11:31:48 AM page 1

Method: 6010B Sample Name: qc260334 Operator: kac
Run Time: 08/06/04 11:28:46
Comment: 93529,04ss171,0.1/10,04ss172,0.1/10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1920.	1920.	971.	4180.	48.5	182.	5920.
SDev	8.	3.	6.	32.	.6	1.	32.
%RSD	.418	.174	.624	.776	1.14	.664	.547
#1	1920.	1920.	967.	4160.	48.1	181.	5900.
#2	1930.	1920.	976.	4210.	48.8	183.	5950.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1030.	1130.	1910.	1940.	372.	8810.	882.
SDev	5.	7.	4.	8.	4.	38.	4.
%RSD	.481	.578	.195	.405	.980	.427	.474
#1	1030.	1130.	1910.	1930.	369.	8790.	879.
#2	1040.	1140.	1920.	1940.	375.	8840.	885.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	937.	190.	865.	1490.	1720.	355100.	240800.
SDev	3.	.	6.	9.	8.	2210.	1186.
%RSD	.343	.101	.642	.574	.473	.6224'	.4924
#1	940.	190.	861.	1480.	1710.	353500.	240000.
#2	935.	190.	869.	1490.	1720.	356600.	241600.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	609100.	1277000.	15000.	1930.	1920.	919.	20300.
SDev	3722.	7426.	102.	6.	5.	1.	150.
%RSD	.6110	.5815	.680	.335	.255	.082	.742
#1	606500.	1272000.	14900.	1920.	1920.	919.	20200.
#2	611800.	1282000.	15100.	1930.	1920.	918.	20400.

Analysis Report 08/06/04 11:37:47 AM page 1

Method: 6010B Sample Name: qc260331 Operator: kac
Run Time: 08/06/04 11:33:58
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	594.	625.	986.	4080.	48.6	187.	7140.
SDev	47.	13.	7.	10.	.1	1.	40.
%RSD	7.86	2.05	.689	.238	.215	.641	.560
#1	561.	634.	991.	4080.	48.5	188.	7110.
#2	627.	616.	982.	4070.	48.7	187.	7170.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1160.	1080.	1880.	1850.	358.	11500.	899.
SDev	4.	2.	16.	68.	5.	7.	32.
%RSD	.341	.207	.858	3.68	1.39	.063	3.59
#1	1160.	1070.	1900.	1810.	354.	11500.	922.
#2	1160.	1080.	1870.	1900.	361.	11500.	877.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	910.	193.	835.	1490.	1600.	367700.	200600.
SDev	37.	.	31.	1.	6.	1628.	1003.
%RSD	4.06	.202	3.70	.070	.381	.4428	.5000
#1	884.	193.	813.	1490.	1590.	366500.	199900.
#2	936.	192.	857.	1490.	1600.	368900.	201300.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	659700.	1551000.	14600.	1860.	615.	906.	23000.
SDev	3401.	10733.	95.	40.	7.	14.	141.
%RSD	.5156	.6922	.651	2.15	1.14	1.53	.614
#1	657300.	1543000.	14500.	1840.	610.	896.	22900.
#2	662100.	1558000.	14700.	1890.	620.	916.	23100.

Analysis Report 08/06/04 11:42:04 AM page 1

Method: 6010B Sample Name: qc260332 Operator: kac
Run Time: 08/06/04 11:38:15
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	564.	585.	971.	4530.	48.2	187.	8030.
SDev	26.	.	3.	10.	.1	1.	5.
%RSD	4.55	.021	.327	.216	.166	.530	.062
#1	546.	585.	973.	4530.	48.2	187.	8030.
#2	583.	585.	969.	4520.	48.3	186.	8040.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1150.	1940.	2210.	2190.	351.	9970.	866.
SDev	1.	3.	4.	32.	2.	5.	9.
%RSD	.067	.171	.197	1.45	.683	.051	.990
#1	1150.	1950.	2210.	2170.	349.	9980.	872.
#2	1150.	1940.	2200.	2220.	352.	9970.	860.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	888.	191.	818.	1620.	2110.	429300.	260400.
SDev	10.	1.	10.	4.	.	96.	106.
%RSD	1.08	.382	1.28	.252	.022	.0223	.0406
#1	881.	191.	811.	1620.	2110.	429300.	260400.
#2	895.	190.	825.	1610.	2110.	429200.	260500.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	715900.	1574000.	17700.	2200.	578.	881.	24400.
SDev	466.	2226.	24.	20.	9.	4.	45.
%RSD	.0651	.1414	.136	.898	1.50	.403	.184
#1	715500.	1572000.	17700.	2180.	572.	878.	24400.
#2	716200.	1575000.	17700.	2210.	584.	883.	24500.

Analysis Report 08/06/04 11:53:44 AM page 1

Method: 6010B Sample Name: 04ws1319 Operator: kac
Run Time: 08/06/04 11:50:15
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	767.	761.	373.	732.	75.6	74.5	153.
SDev	24.	18.	8.	13.	1.6	1.6	4.
%RSD	3.15	2.40	2.14	1.80	2.18	2.19	2.37
#1	750.	748.	368.	723.	74.5	73.3	151.
#2	784.	774.	379.	741.	76.8	75.6	156.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	370.	153.	379.	374.	759.	374.	373.
SDev	8.	3.	5.	7.	39.	8.	1.
%RSD	2.21	1.94	1.26	1.87	5.11	2.20	.211
#1	365.	151.	375.	369.	731.	368.	372.
#2	376.	155.	382.	379.	786.	380.	374.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	372.	75.6	359.	374.	76.3	775.7	1522.
SDev	16.	1.2	18.	8.	1.8	14.9	30.
%RSD	4.22	1.53	4.98	2.16	2.42	1.921	1.995
#1	361.	74.8	346.	368.	75.0	765.2	1500.
#2	383.	76.4	372.	380.	77.6	786.2	1543.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	765.1	1578.	73.8	376.	763.	372.	763.
SDev	10.0	18.	1.3	6.	20.	11.	17.
%RSD	1.311	1.150	1.78	1.66	2.65	2.88	2.25
#1	758.0	1565.	72.9	371.	749.	365.	751.
#2	772.2	1591.	74.7	380.	777.	380.	776.

Analysis Report 08/06/04 11:58:15 AM page 1

Method: 6010B Sample Name: ccb Operator: kac
Run Time: 08/06/04 11:54:40
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.94	-3.54	.526	.052	.148	-.273	-.131
SDev	6.68	1.80	.527	.115	.067	.253	.643
%RSD	84.2	50.9	100.	220.	45.3	92.5	491.
#1	12.7	-4.82	.153	-.029	.195	-.452	-.585
#2	3.21	-2.27	.898	.134	.100	-.095	.324

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.378	1.59	-1.46	2.15	5.49	-.428	-3.23
SDev	.257	.31	4.40	1.34	3.27	.439	2.95
%RSD	67.8	19.5	301.	62.4	59.5	102.	91.3
#1	.197	1.37	-4.58	3.10	7.80	-.739	-5.32
#2	.560	1.81	1.65	1.20	3.18	-.118	-1.15

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.841	-.315	.634	-.345	1.24	32.92	25.76
SDev	2.86	.600	4.27	.551	.15	7.21	1.33
%RSD	340.	190.	673.	160.	12.5	21.90	5.145
#1	2.86	-.740	3.65	-.735	1.35	38.02	26.70
#2	-1.18	.109	-2.39	.045	1.13	27.82	24.82

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	24.81	33.19	.312	.947	.284	-.517	3.37
SDev	10.08	8.29	.073	.573	1.02	.922	.43
%RSD	40.62	24.99	23.3	60.5	360.	178.	12.7
#1	31.93	39.05	.363	.542	1.01	.135	3.68
#2	17.68	27.32	.261	1.35	-.440	-1.17	3.07

Analysis Report 08/06/04 12:26:14 PM page 1

Method: 6010B Sample Name: 173857-001 Operator: kac
Run Time: 08/06/04 12:22:25
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.1	6.37	61.1	278.	2.43	3.90	713.
SDev	8.7	5.10	.4	2.	.14	.19	.
%RSD	57.6	80.1	.630	.734	5.79	4.83	.042
#1	8.96	9.98	61.4	280.	2.33	4.04	713.
#2	21.3	2.76	60.8	277.	2.53	3.77	713.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	101.	67.1	42.9	40.4	2.46	437.	-14.6
SDev	1.	.8	4.7	1.8	.79	2.	3.2
%RSD	.745	1.26	10.9	4.50	32.3	.380	22.2
#1	101.	67.7	46.2	41.6	3.02	438.	-12.3
#2	100.	66.5	39.6	39.1	1.90	436.	-16.9

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.6	-1.57	-8.17	581.	304.	91660.	53410.
SDev	6.7	.91	2.67	2.	1.	23.	12.
%RSD	63.4	58.1	32.6	.309	.310	.0253	.0217
#1	5.83	-.924	-10.1	582.	305.	91680.	53400.
#2	15.3	-2.21	-6.28	579.	303.	91650.	53420.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	204100.	42460.	2770.	41.2	9.29	2.19	9820.
SDev	50.	21.	1.	2.8	.50	3.39	3.
%RSD	.0245	.0502	.027	6.73	5.39	155.	.027
#1	204000.	42450.	2770.	43.2	9.64	-.209	9820.
#2	204100.	42480.	2770.	39.2	8.93	4.58	9820.

Analysis Report 08/06/04 12:30:31 PM page 1

Method: 6010B Sample Name: 173857-002 Operator: kac
Run Time: 08/06/04 12:26:42
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21.2	5.32	60.2	234.	2.61	3.96	757.
SDev	3.4	7.03	1.1	.	.21	.24	2.
%RSD	16.0	132.	1.84	.079	8.02	5.97	.257
#1	18.8	10.3	61.0	234.	2.46	4.13	755.
#2	23.6	.350	59.5	234.	2.76	3.79	758.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	116.	73.9	44.7	37.7	1.53	473.	-14.4
SDev	1.	.3	4.6	3.5	.38	.	4.6
%RSD	.521	.426	10.2	9.16	24.8	.047	32.2
#1	116.	74.2	47.9	35.3	1.79	473.	-11.1
#2	115.	73.7	41.5	40.2	1.26	473.	-17.6

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.5	-1.09	-8.29	652.	335.	94120.	52670.
SDev	2.2	1.74	2.34	1.	.	495.	146.
%RSD	17.4	159.	28.3	.153	.093	.5255	.2775
#1	10.9	.135	-9.94	651.	335.	93770.	52570.
#2	14.0	-2.32	-6.63	652.	335.	94470.	52770.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	229700.	45020.	2970.	40.1	10.6	3.53	11000.
SDev	807.	151.	9.	.8	3.6	.10	59.
%RSD	.3516	.3345	.297	1.97	33.6	2.83	.536
#1	229100.	44910.	2960.	39.5	13.1	3.60	10900.
#2	230200.	45130.	2970.	40.6	8.08	3.46	11000.

Method: 6010B Sample Name: 04ws1317 Operator: kac
Run Time: 08/06/04 12:46:43
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	505.	499.	250.	483.	49.5	50.1	101.
SDev	12.	2.	3.	2.	.1	.2	1.
%RSD	2.28	.386	1.14	.429	.142	.452	.786
#1	497.	500.	252.	485.	49.5	50.3	101.
#2	513.	498.	248.	482.	49.6	50.0	100.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	242.	98.4	247.	247.	499.	249.	246.
SDev	1.	.5	4.	2.	10.	1.	8.
%RSD	.427	.556	1.44	.774	1.95	.285	3.16
#1	243.	98.8	250.	246.	492.	250.	252.
#2	241.	98.0	245.	249.	506.	249.	241.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	49.3	245.	242.	51.5	524.7	1009.
SDev	3.	.9	3.	1.	.1	7.6	11.
%RSD	1.36	1.78	1.36	.227	.160	1.442	1.135
#1	245.	50.0	243.	243.	51.5	530.1	1018.
#2	250.	48.7	247.	242.	51.4	519.4	1001.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	504.9	999.8	47.6	247.	501.	247.	502.
SDev	15.1	2.0	.1	.	3.	.	2.
%RSD	2.994	.1999	.241	.034	.509	.146	.338
#1	515.6	1001.	47.7	247.	499.	247.	503.
#2	494.2	998.4	47.5	247.	503.	247.	501.

Analysis Report 08/06/04 12:55:09 PM page 1

Method: 6010B Sample Name: ccb Operator: kac
Run Time: 08/06/04 12:51:29
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.98	-3.10	.123	.138	.480	-.235	.232
SDev	1.11	.97	1.91	.143	.007	.138	.582
%RSD	27.8	31.2	1550.	104.	1.39	58.6	250.
#1	3.20	-2.42	1.47	.238	.476	-.137	.644
#2	4.76	-3.79	-1.23	.037	.485	-.332	-.179

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.451	.759	-.532	-.166	2.69	-.250	-1.67
SDev	.243	.320	1.387	2.065	.93	.204	.52
%RSD	53.9	42.2	261.	1240.	34.5	81.6	31.3
#1	.623	.985	.449	-1.63	3.34	-.106	-1.30
#2	.279	.532	-1.51	1.29	2.03	-.394	-2.04

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.56	.253	1.45	-.131	1.46	60.02	37.30
SDev	3.75	.755	1.26	.587	.06	1.54	7.42
%RSD	106.	299.	87.2	447.	4.23	2.572	19.91
#1	-6.21	.786	2.34	.284	1.50	61.11	42.55
#2	-.902	-.281	.554	-.546	1.42	58.93	32.05

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.31	6.035	.146	-.288	-.740	-2.93	2.83
SDev	7.09	4.135	.106	.915	.276	2.33	.26
%RSD	68.81	68.51	72.5	318.	37.3	79.5	9.24
#1	15.33	8.959	.221	-.935	-.545	-4.57	3.01
#2	5.294	3.112	.071	.359	-.936	-1.28	2.64

Analysis Report 08/06/04 01:48:10 PM page 1

Method: 6010B Sample Name: 04ws1256 Operator: kac
Run Time: 08/06/04 13:44:51
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	526.	561.	541.	504.	479.	967.	474.
SDev	54.	20.	7.	4.	1.	3.	2.
%RSD	10.2	3.64	1.26	.742	.239	.308	.370
#1	488.	575.	546.	506.	478.	969.	473.
#2	564.	547.	537.	501.	479.	965.	475.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	471.	504.	959.	957.	496.	932.	535.
SDev	1.	1.	15.	42.	11.	.	20.
%RSD	.270	.184	1.55	4.34	2.19	.035	3.66
#1	470.	505.	969.	928.	488.	932.	549.
#2	472.	503.	948.	987.	504.	932.	521.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	522.	862.	504.	471.	1030.	502200.	430100.
SDev	35.	3.	19.	1.	2.	897.	1292.
%RSD	6.79	.290	3.85	.162	.209	.1787	.3003
#1	497.	861.	490.	472.	1030.	501500.	429200.
#2	547.	864.	518.	471.	1030.	502800.	431000.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	180400.	534500.	449.	958.	549.	526.	21400.
SDev	524.	2241.	1.	23.	4.	17.	90.
%RSD	.2904	.4192	.197	2.37	.780	3.25	.422
#1	180000.	532900.	448.	942.	546.	514.	21300.
#2	180800.	536100.	450.	974.	552.	538.	21400.

Method: 6010B Sample Name: 04ws1319 Operator: kac
Run Time: 08/06/04 13:50:10
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	755.	763.	387.	755.	74.0	78.3	151.
SDev	.	13.	5.	13.	1.0	1.8	3.
%RSD	.063	1.70	1.37	1.75	1.30	2.27	2.07
#1	755.	773.	391.	764.	74.7	79.6	153.
#2	756.	754.	383.	746.	73.3	77.0	149.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	363.	146.	368.	376.	752.	385.	368.
SDev	7.	3.	9.	.	8.	8.	9.
%RSD	1.80	1.78	2.55	.111	1.03	2.11	2.42
#1	368.	148.	375.	376.	747.	391.	374.
#2	359.	145.	361.	375.	758.	379.	362.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	379.	72.6	375.	362.	79.2	846.4	1467.
SDev	2.	2.4	3.	6.	1.7	29.8	27.
%RSD	.600	3.26	.674	1.76	2.13	3.525	1.828
#1	381.	74.3	373.	367.	80.3	867.5	1486.
#2	378.	71.0	376.	358.	78.0	825.3	1448.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	794.4	1573.	70.1	373.	761.	375.	761.
SDev	20.2	28.	1.2	3.	8.	4.	15.
%RSD	2.547	1.794	1.70	.913	1.12	1.19	2.03
#1	808.7	1593.	71.0	375.	767.	379.	772.
#2	780.1	1553.	69.3	371.	755.	372.	750.

Analysis Report 08/06/04 02:03:40 PM page 1

Method: 6010B Sample Name: ccb Operator: kac
Run Time: 08/06/04 13:59:55
Comment: 93529,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.09	-3.43	.745	.370	1.26	-.164	.324
SDev	.53	.72	.974	.073	.02	.096	.497
%RSD	17.2	20.8	131.	19.7	1.91	58.5	154.
#1	2.71	-3.94	.056	.422	1.24	-.096	.676
#2	3.46	-2.93	1.43	.319	1.28	-.232	-.028

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.498	-.151	.370	.190	.352	-.197	1.59
SDev	.232	.515	1.73	.464	.371	.126	5.49
%RSD	46.5	342.	468.	244.	106.	63.9	345.
#1	.662	.214	1.59	-.138	.089	-.108	5.48
#2	.334	-.515	-.853	.518	.614	-.286	-2.29

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.60	.365	.193	-.095	1.33	95.81	41.43
SDev	2.48	.178	.172	.442	.08	4.66	14.91
%RSD	156.	48.9	89.2	464.	6.28	4.864	35.99
#1	-3.35	.491	.315	.217	1.39	99.10	51.97
#2	.161	.239	.071	-.408	1.27	92.51	30.88

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.71	105.7	.055	.250	-1.26	-.533	2.46
SDev	8.28	34.5	.017	.267	.65	.175	.67
%RSD	39.96	32.60	31.2	107.	51.9	32.8	27.3
#1	26.56	130.1	.043	.439	-1.72	-.409	2.94
#2	14.86	81.36	.067	.061	-.798	-.656	1.99

CVAA Raw Data

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44321688 Instrument: MET04 HydraAA HG Analyzer Begun: 10-AUG-2004
Analytical Method: EPA 7470 SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	93611	ICALBLK	Std01Rep1				10-AUG-2004 09:28	1.0	1.0									
002	93611	ICAL	Std02Rep1				10-AUG-2004 09:30	1.0	1.0									
003	93611	ICAL	Std03Rep1				10-AUG-2004 09:32	1.0	1.0									
004	93611	ICAL	Std04Rep1				10-AUG-2004 09:34	1.0	1.0									
005	93611	ICAL	Std05Rep1				10-AUG-2004 09:36	1.0	1.0									
006	93611	ICAL	Std06Rep1				10-AUG-2004 09:38	1.0	1.0									
007	93611	ICV					10-AUG-2004 10:44	1.0	1.0	2	5.000	44321688001	4.750		ug/L	95		
008	93611	ICB					10-AUG-2004 10:47	1.0	1.0			44321688001	[0.04800]	0.20	ug/L			
009	93611	BLANK	QC260648		93611	Soil	10-AUG-2004 10:49	1.0	100.0			44321688001	0.0075 J	0.020	mg/Kg			u
010	93611	BS	QC260649		93611	Soil	10-AUG-2004 11:06	1.0	100.0		0.5000	44321688001	0.4890	0.020	mg/Kg	98		u
011	93611	BSD	QC260650		93611	Soil	10-AUG-2004 11:08	1.0	100.0		0.5000	44321688001	0.4860	0.020	mg/Kg	97	1	u
012	93611	MSS	173840-001		93611	Soil	10-AUG-2004 11:10	1.0	86.21			44321688001	0.59	0.017	mg/Kg			u
013	93611	SAMPLE	173852-001		93611	Soil	10-AUG-2004 11:22	1.0	96.15			44321688001	0.041	0.019	mg/Kg			u
014	93611	SAMPLE	173852-002		93611	Soil	10-AUG-2004 11:24	1.0	100.0			44321688001	ND	0.020	mg/Kg			u
015	93611	SAMPLE	173852-004		93611	Soil	10-AUG-2004 11:26	1.0	94.34			44321688001	0.020	0.019	mg/Kg			u
016	93611	SAMPLE	173852-005		93611	Soil	10-AUG-2004 11:28	1.0	100.0			44321688001	0.025	0.020	mg/Kg			u
017	93611	CCV					10-AUG-2004 11:30	1.0	1.0	3	2.500	44321688001	2.690		ug/L	108		
018	93611	CCB					10-AUG-2004 11:32	1.0	1.0			44321688001	[0.03900]	0.20	ug/L			
019	93611	SAMPLE	173852-008		93611	Soil	10-AUG-2004 11:34	1.0	89.29			44321688001	0.18	0.018	mg/Kg			u
020	93611	SAMPLE	173852-009		93611	Soil	10-AUG-2004 11:35	1.0	87.72			44321688001	ND	0.018	mg/Kg			u
021	93611	SAMPLE	173852-014		93611	Soil	10-AUG-2004 11:37	1.0	98.04			44321688001	0.16	0.020	mg/Kg			u
022	93611	SAMPLE	173852-015		93611	Soil	10-AUG-2004 11:40	1.0	92.59			44321688001	ND	0.019	mg/Kg			u
023	93611	SAMPLE	173852-016		93611	Soil	10-AUG-2004 11:42	1.0	94.34			44321688001	ND	0.019	mg/Kg			u
024	93611	SAMPLE	173857-001		93611	Soil	10-AUG-2004 11:44	1.0	89.29			44321688001	ND	0.018	mg/Kg			u
025	93611	MS	QC260653	173867-001	93611	Soil	10-AUG-2004 11:46	1.0	96.15		0.4808	44321688001	0.6442	0.019	mg/Kg	92		u
026	93611	MSD	QC260654	173867-001	93611	Soil	10-AUG-2004 11:48	1.0	92.59		0.4630	44321688001	0.5917	0.019	mg/Kg	84	6	u
027	93611	SAMPLE	173857-002		93611	Soil	10-AUG-2004 11:50	1.0	98.04			44321688001	ND -	0.020	mg/Kg			u
028	93611	MSS	173867-001		93611	Soil	10-AUG-2004 11:52	1.0	98.04			44321688001	0.20	0.098	mg/Kg			u
029	93611	CCV					10-AUG-2004 11:54	1.0	1.0	4	5.000	44321688001	5.370		ug/L	107		
030	93611	CCB					10-AUG-2004 11:55	1.0	1.0			44321688001	[0.05700]	0.20	ug/L			
031	93611	SAMPLE	173867-002		93611	Soil	10-AUG-2004 11:57	1.0	92.59			44321688001	0.20	0.093	mg/Kg			u
032	93611	SAMPLE	173869-001		93611	Soil	10-AUG-2004 11:59	1.0	96.15			44321688001	0.059	0.019	mg/Kg			u
033	93611	SAMPLE	173869-002		93611	Soil	10-AUG-2004 12:01	1.0	94.34			44321688001	0.094	0.019	mg/Kg			u
034	93611	SAMPLE	173885-001		93611	Miscel	10-AUG-2004 12:03	1.0	98.04			44321688001	0.52	0.020	mg/Kg			u
035	93611	SAMPLE	173885-002		93611	Miscel	10-AUG-2004 12:05	1.0	87.72			44321688001	0.081	0.018	mg/Kg			u
036	93611	SAMPLE	173894-004		93611	Soil	10-AUG-2004 12:07	1.0	96.15			44321688001	0.042	0.019	mg/Kg			u
037	93611	SAMPLE	173894-005		93611	Soil	10-AUG-2004 12:09	1.0	100.0			44321688001	0.048	0.020	mg/Kg			u
038	93611	CCV					10-AUG-2004 12:11	1.0	1.0	5	7.500	44321688001	7.610		ug/L	101		
039	93611	CCB					10-AUG-2004 12:13	1.0	1.0			44321688001	[0.009000]	0.20	ug/L			

Stds used: 1=04WS1489 2=04WS1491 3=04WS1492 4=04WS1493 5=04WS1494
Flags used: u=use

Analyst: _____ Date: 08/10/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MET04 HydraAA HG Analyzer Reviewed By: ---
Calnum: 44321688001 Name: Type: SOIL Date: 10-AUG-2004 09:28 Inj Vol (uL): 2000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	93611	44321688001	Std01Rep1	10-AUG-2004 09:28	
2	93611	44321688002	Std02Rep1	10-AUG-2004 09:30	04WS1489 (500X)
3	93611	44321688003	Std03Rep1	10-AUG-2004 09:32	04WS1489 (200X)
4	93611	44321688004	Std04Rep1	10-AUG-2004 09:34	04WS1489 (50X)
5	93611	44321688005	Std05Rep1	10-AUG-2004 09:36	04WS1489 (20X)
6	93611	44321688006	Std06Rep1	10-AUG-2004 09:38	04WS1489 (10X)

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Mercury		84190	61676	63999	64618	68529	LINR	R	0.045371	1.469E-5		ug/L	68602	0.999	.99	

08

Curves: LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

WinHg Database 1.3

File Utility Help

RN⇩ RN⇧ ?

Protocol hgppb

Dataset/Proto 081004 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.46870e-5

C 4.53714e-2

Rho .999500

Type Linear

☑ Calibrated

☑ Accepted

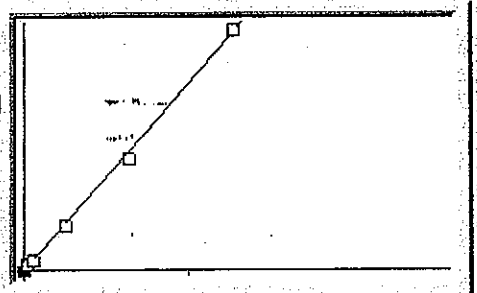
Accept

Rel. Abs.
685286

Accepted

New

Include S1 Rep 1☑ 2☐ 3☐ 4☐ 5☐



Conc. 20.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.083	.083	2562	0	2561		
02	.20000	.293	.093	16838	0%	16838		
03	.50000	.498	-.002	30839	0%	30838		
04	2.0000	1.93	-.075	127998	0%	127998		
05	5.0000	4.79	-.209	323091	0%	323091		
06	10.000	10.1	.110	685286	0%	685286		

Ready NUM

Folder: 081004
Protocol: hgppb
POST-RUN REPORT

```
Line    Conc.   Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  1       09:28:39 10 Aug 04    HG

Hg      .000    ppb       2561                                                =

*** Standard: 2 Rep: 1                Seq:  2       09:30:34 10 Aug 04    HG

Hg      .200    ppb       16838                                               =

*** Standard: 3 Rep: 1                Seq:  3       09:32:21 10 Aug 04    HG

Hg      .500    ppb       30838                                               =

*** Standard: 4 Rep: 1                Seq:  4       09:34:11 10 Aug 04    HG

Hg      2.00    ppb       127998                                              =

*** Standard: 5 Rep: 1                Seq:  5       09:36:00 10 Aug 04    HG

Hg      5.00    ppb       323091                                              =

*** Standard: 6 Rep: 1                Seq:  6       09:38:18 10 Aug 04    HG

Hg      10.0    ppb       685286                                              =

*** Check Standard: 2  Ck2WS1491      Seq:  7       10:44:54 10 Aug 04    HG
Line    Flag    %Rcv.     Found     True    Units       SD/RSD
Hg              95.0      4.75      5.00    ppb         .000  %
                                                                              =

*** Check Standard: 1  Ck1ICB         Seq:  8       10:47:02 10 Aug 04    HG
Line    Flag    Found Range(+/-)  Units       SD/RSD
Hg              .048      .000    ppb         .000  %
                                                                              =

*** Sample ID: QC260648               Seq:  9       10:49:29 10 Aug 04    HG
                                93611,1
Hg      .075    ppb       .000  %   .075                                     =
=============================================================================
*** Sample ID: QC260649               Seq:  17      11:06:22 10 Aug 04    HG
                                93611,1
Hg      4.89    ppb       .000  %   4.89                                     =
=============================================================================
*** Sample ID: QC260650               Seq:  18      11:08:13 10 Aug 04    HG
                                93611,1
Hg      4.86    ppb       .000  %   4.86                                     =
=============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: 173840-001            Seq:  19     11:10:03 10 Aug 04   HG
                          93611,1
Hg    6.87    ppb       .000  %   6.87
                                                                          =
=============================================================================
*** Sample ID: 173852-001            Seq:  22     11:22:47 10 Aug 04   HG
                          93611,1
Hg    .429    ppb       .000  %   .429
                                                                          =
=============================================================================
*** Sample ID: 173852-002            Seq:  23     11:24:39 10 Aug 04   HG
                          93611,1
Hg    .146    ppb       .000  %   .146
                                                                          =
=============================================================================
*** Sample ID: 173852-004            Seq:  24     11:26:27 10 Aug 04   HG
                          93611,1
Hg    .212    ppb       .000  %   .212
                                                                          =
=============================================================================
*** Sample ID: 173852-005            Seq:  25     11:28:29 10 Aug 04   HG
                          93611,1
Hg    .253    ppb       .000  %   .253
                                                                          =
*** Check Standard: 3  Ck3WS1492     Seq:  26     11:30:17 10 Aug 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          108.     2.69    2.50  ppb        .000  %
                                                                          =
*** Check Standard: 6  Ck6ccb        Seq:  27     11:32:18 10 Aug 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^   .039    .000  ppb        .000  %
                                                                          =
*** Sample ID: 173852-008            Seq:  28     11:34:05 10 Aug 04   HG
                          93611,1
Hg    2.04    ppb       .000  %   2.04
                                                                          =
=============================================================================
*** Sample ID: 173852-009            Seq:  29     11:35:54 10 Aug 04   HG
                          93611,1
Hg    .117    ppb       .000  %   .117
                                                                          =
=============================================================================
*** Sample ID: 173852-014            Seq:  30     11:37:42 10 Aug 04   HG
                          93611,1
Hg    1.63    ppb       .000  %   1.63
                                                                          =
=============================================================================
```

Folder: 081004
Protocol: hgppb
POST-RUN REPORT

```
Line    Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID: 173852-015              Seq:  31     11:40:02 10 Aug 04   HG
                            93611,1
Hg     .178    ppb        .000  %   .178                                    =
=============================================================================
*** Sample ID: 173852-016              Seq:  32     11:42:24 10 Aug 04   HG
                            93611,1
Hg     .169    ppb        .000  %   .169                                    =
=============================================================================
*** Sample ID: 173857-001              Seq:  33     11:44:21 10 Aug 04   HG
                            93611,1
Hg     .164    ppb        .000  %   .164                                    =
=============================================================================
*** Sample ID: QC260653                Seq:  34     11:46:14 10 Aug 04   HG
                            93611,1
Hg     6.70    ppb        .000  %   6.70                                    =
=============================================================================
*** Sample ID: QC260654                Seq:  35     11:48:13 10 Aug 04   HG
                            93611,1
Hg     6.39    ppb        .000  %   6.39                                    =
=============================================================================
*** Sample ID: 173857-002              Seq:  36     11:50:06 10 Aug 04   HG
                            93611,1
Hg     .099    ppb        .000  %   .099                                    =
=============================================================================
*** Sample ID: 173867-001              Seq:  37     11:52:11 10 Aug 04   HG
                            93611,1
Hg     2.05    ppb        .000  %   2.05                                    =

*** Check Standard: 5  Ck5WS1493      Seq:  38     11:54:00 10 Aug 04   HG
Line   Flag  %Rcv.   Found    True   Units      SD/RSD
Hg           107.     5.37    5.00   ppb        .000  %                    =

*** Check Standard: 6  Ck6ccb         Seq:  39     11:55:49 10 Aug 04   HG
Line   Flag  %Rcv.   Found    True   Units      SD/RSD
Hg           ^^^^^^   .057    .000   ppb        .000  %                    =

*** Sample ID: 173867-002              Seq:  40     11:57:50 10 Aug 04   HG
                            93611,1
Hg     2.12    ppb        .000  %   2.12                                    =
=============================================================================
```

Folder: 081004
Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 173869-001 Seq: 41 11:59:43 10 Aug 04 HG
93611,1
Hg .615 ppb .000 % .615 =

*** Sample ID: 173869-002 Seq: 42 12:01:30 10 Aug 04 HG
93611,1
Hg .999 ppb .000 % .999 =

*** Sample ID: 173885-001 Seq: 43 12:03:39 10 Aug 04 HG
93611,1
Hg 5.29 ppb .000 % 5.29 =

*** Sample ID: 173885-002 Seq: 44 12:05:25 10 Aug 04 HG
93611,1
Hg .927 ppb .000 % .927 =

*** Sample ID: 173894-004 Seq: 45 12:07:17 10 Aug 04 HG
93611,1
Hg .434 ppb .000 % .434 =

*** Sample ID: 173894-005 Seq: 46 12:09:25 10 Aug 04 HG
93611,1
Hg .477 ppb .000 % .477 =

*** Check Standard: 4 Ck4WS1494 Seq: 47 12:11:23 10 Aug 04 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	7.61	7.50	ppb	.000 %

=

*** Check Standard: 6 Ck6ccb Seq: 48 12:13:13 10 Aug 04 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		^^^^^^	.009	.000	ppb	.000 %

=

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93677
Date: 08/12/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173857-001	15.4365	22.8128	22.4789	95	5
173857-002	15.2825	22.2745	21.9924	96	4
173881-025	15.2216	22.6951	22.3870	96	4
173881-026	15.5389	22.8794	22.5438	95	5
173881-028	15.6512	22.8394	22.5465	96	4
173881-029	15.2827	22.6613	22.4821	98	2
173881-030	15.5933	22.3822	22.1381	96	4
173895-001	15.4115	22.8971	22.4930	95	5
173895-002	15.4235	22.3865	21.5073	87	13
173895-003	15.4641	22.5407	21.6587	88	12
173895-004	15.4109	22.6418	20.7659	74	26
173895-005	15.2925	22.9394	21.8503	86	14
173895-006	15.2137	22.3705	21.8531	93	7
QC260907	15.7376	22.6171	22.2460	95	5
of 173857-001			RPD:	0.9%	17.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93677
Date Started: 11-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
173857-001		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
173857-002		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
173881-025		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-026		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-028		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-029		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-030		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173895-001		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-002		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-003		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-004		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-005		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-006		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
QC260907	SDUP of 173857-001		Soil	MOISTURE	

8/11/04

93677

Sample		Dil.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	3	15.3476	—	15.3477	
173881	-25	A	80	15.2216	22.6951	22.3870	
	26		112	15.5389	22.8794	22.5438	
	28		1976	15.6512	22.8364	22.5465	
	29		73	15.2827	22.6613	22.4821	
	30		29	15.5933	22.3822	22.1381	
173857	-1		32	15.4365	22.8128	22.4789	
DUP	1		33	15.7376	22.6171	22.2460	
	2		26	15.2825	22.2745	21.9824	
173859	-1		6	15.4115	22.8971	22.4930	
	2		34	15.4235	22.3865	21.5873	
	3		HIDEL	15.4641	22.5407	21.6587	
	4		24	15.4109	22.6418	20.7659	
	5		44	15.2925	22.9394	21.8503	
	6		146	15.2137	22.3705	21.8531	

95 2m 8/11

OVEN TEMP: 103°C
TIME IN: 4:45 P.M.
TIME OUT: 9:38 A.M. OV: 8/12/04

Continued on Page

Read and Understood By

Signed: R. Manning Date: 8/11/04 Signed: [illegible] Date: 8-12

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173857
Polychlorinated Biphenyls (PCBs)

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio - Baker Beach 3

Sample ID	Lab ID
BB3EX108[0.5]	173857-001
DUP080504A	173857-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 8/7/04
Operations Manager

Signature: _____ Date: 8/30/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PCBS (EPA 8082)

Laboratory number:	173857
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio - Baker Beach 3
Request Date:	08/05/04
Samples Received:	08/05/04

This hardcopy data package contains sample and batch QC results for two soil samples, requested for the above referenced project on 08/05/04. The samples were received cold and intact.

No analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

173857

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2393.12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Cambelle
Recorder (Signature Required): [signature] (MAY)

Turnaround Time: 5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	pesticides	PCBs	mercury	VOCs	SVOCs	PAH diesel	TPH fuel oil	Chlorinated Herb				Silica gel clean-up	Hold	Remarks
1 BB3EX104[03]	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		Send tube from "B" end loaded with Level 4 data package
2 DUP03050104A	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/5/04	1415	John Peyton	8/5	2:8
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Mark Cohen	Date 8-5-04	Time 15:30	Received by Lab: (Signature) Lavanna Curti	Date 8/5/04	Time 15:50

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Send Login to Colleen Haradin - SF Office

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [X] Private Courier (Co. Name) Ultra Ex

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002235

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173857 Date Received: 8-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 8-5-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C ..... (YES) NO
   Type of ice: wet Temperature: cold – no temp blank

B. Login Phase
Date Logged In: 8-5-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/05/04
Units:	ug/Kg	Received:	08/05/04
Diln Fac:	1.000	Prepared:	08/06/04
Batch#:	93532	Analyzed:	08/06/04

Field ID:	BB3EX108[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	5%
Lab ID:	173857-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	25
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	69	65-135

Field ID:	DUP080504A	Basis:	dry
Type:	SAMPLE	Moisture:	4%
Lab ID:	173857-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	25
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	73	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC260344	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	70	65-135

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

7.2

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260345	Batch#:	93532
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/06/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	169.1	192.4	114	80-129
Aroclor-1260	169.1	203.2	120	80-131

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	87	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX108[0.5]	Batch#:	93532
MSS Lab ID:	173857-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	dry	Analyzed:	08/06/04
Diln Fac:	1.000		

Type: MS
Lab ID: QC260346

Moisture: 5%
Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<9.474	177.7	173.1	97	65-155
Aroclor-1260	<4.105	177.7	196.1	110	63-127

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	82	65-135

Type: MSD
Lab ID: QC260347

Moisture: 5%
Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	175.8	177.3	101	65-155	3	27
Aroclor-1260	175.8	166.5	95	63-127	15	34

Surrogate	%REC	Limits
TCMX	100	65-135
Decachlorobiphenyl	69	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	215_013	204310220013	pcb10_2	02-AUG-2004 21:40	04WS0970
2	215_014	204310220014	pcb25_5	02-AUG-2004 22:13	04WS0960
3	215_015	204310220015	pcb100_20	02-AUG-2004 22:46	04WS0961
4	215_016	204310220016	pcb250_50	02-AUG-2004 23:19	04WS0962
5	215_017	204310220017	pcb500_100	02-AUG-2004 23:52	04WS0963
6	215_018	204310220018	pcb750_150	03-AUG-2004 00:25	04WS0964
7	215_019	204310220019	pcb1K_200	03-AUG-2004 00:59	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	222.19	249.72	232.92	240.39	205.76	174.68	193.06	AVRG	R		0.004609		pg	216.96	12	.99	20	
Aroclor-1016 Peak # 2	A	562.53	501.92	460.15	463.25	377.78	318.34	349.18	AVRG	R		0.002308		pg	433.31	20	.99	20	
Aroclor-1016 Peak # 3	A	484.79	515.26	522.06	533.70	436.50	367.63	418.20	AVRG	R		0.002135		pg	468.31	13	.99	20	
Aroclor-1016 Peak # 4	A	311.49	350.77	348.34	364.70	297.87	262.44	298.62	AVRG	R		0.003133		pg	319.17	11	.99	20	
Aroclor-1016 Peak # 5	A	272.20	286.48	281.40	288.62	237.23	198.13	226.63	AVRG	R		0.003909		pg	255.81	14	.99	20	
Aroclor-1260 Peak # 1	A	534.49	557.25	558.61	543.99	422.20	344.29	396.21	AVRG	R		0.002085		pg	479.58	19	.99	20	
Aroclor-1260 Peak # 2	A	904.42	888.70	849.86	860.45	672.00	546.32	638.04	AVRG	R		0.001306		pg	765.68	19	.99	20	
Aroclor-1260 Peak # 3	A	480.31	419.58	458.34	454.57	367.56	297.31	349.09	AVRG	R		0.002476		pg	403.82	17	.99	20	
Aroclor-1260 Peak # 4	A	363.33	365.28	397.28	433.25	344.26	284.33	341.69	AVRG	R		0.002767		pg	361.35	13	.99	20	
Aroclor-1260 Peak # 5	A	868.22	928.30	936.04	985.95	789.30	648.83	768.31	AVRG	R		0.001181		pg	846.42	14	.99	20	
TCMX	A	9152.2	9977.5	9263.6	9902.9	8412.0	7286.0	8156.7	AVRG	R		1.126E-4		pg	8878.7	11	.99	20	
Decachlorobiphenyl	A	10877	10709	9872.1	12832	7437.8			AVRG	R		9.666E-5		pg	10346	19	.99	20	
Aroclor-1016 Peak # 1	B	242.83	242.17	239.76	258.59	221.85	183.59	206.89	AVRG	R		0.004387		pg	227.95	11	.99	20	
Aroclor-1016 Peak # 2	B	301.07	317.39	329.13	342.65	279.81	238.92	270.55	AVRG	R		0.003366		pg	297.07	12	.99	20	
Aroclor-1016 Peak # 3	B	1225.7	1232.9	1179.3	1198.8	944.96	806.07	890.17	AVRG	R		9.361E-4		pg	1068.3	17	.99	20	
Aroclor-1016 Peak # 4	B	465.77	502.61	466.00	483.84	385.83	333.37	369.79	AVRG	R		0.002328		pg	429.60	15	.99	20	
Aroclor-1016 Peak # 5	B	322.46	326.55	314.99	326.70	268.97	229.90	262.36	AVRG	R		0.003411		pg	293.13	13	.99	20	
Aroclor-1260 Peak # 1	B	804.92	843.20	864.53	921.86	729.59	623.19	723.59	AVRG	R		0.001270		pg	787.27	13	.99	20	
Aroclor-1260 Peak # 2	B	1254.5	1305.5	1297.8	1345.0	1066.2	886.63	1041.3	AVRG	R		8.540E-4		pg	1171.0	15	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	836.14	872.35	845.26	901.05	740.38	622.22	753.05	AVRG	R		0.001257		pg	795.78	12	.99	20	
Aroclor-1260 Peak # 4	B	708.28	658.49	677.16	709.83	592.01	499.26	605.88	AVRG	R		0.001573		pg	635.85	12	.99	20	
Aroclor-1260 Peak # 5	B	1689.9	1627.7	1611.2	1813.1	1468.9	1232.9	1501.8	AVRG	R		6.395E-4		pg	1563.6	12	.99	20	
TCMX	B	10333	11533	11102	11785	9884.1	8500.3	9395.7	AVRG	R		9.651E-5		pg	10362	12	.99	20	
Decachlorobiphenyl	B	12402	11918	11586	15972	9357.4			AVRG	R		8.165E-5		pg	12247	19	.99	20	

11

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204315074031
Calnum : 204310220001
Standards: 04WS0962

Run Name : pcb250_50
Filename : 218_031
Caldate : 02-AUG-2004

IDF : 1.0
Injected : 06-AUG-2004 11:17
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	262.7496	pg	5	15	
Aroclor-1260	A			250.0000	258.7410	pg	3	15	
TCMX	A	8878.7	9641.9	50.00000	54.29812	pg	9	15	
Decachlorobiphenyl	A	10346	11856	50.00000	57.29851	pg	15	15	
Aroclor-1016	B			250.0000	243.2813	pg	-3	15	
Aroclor-1260	B			250.0000	243.1013	pg	-3	15	
TCMX	B	10362	10830	50.00000	52.25729	pg	5	15	
Decachlorobiphenyl	B	12247	13654	50.00000	55.74576	pg	11	15	

CONTINUING CALIBRATION REPORT FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204315074047
Calnum : 204310220001
Standards: 04WS0963

Run Name : pcb500_100
Filename : 218_047
Caldate : 02-AUG-2004

IDF : 1.0
Injected : 06-AUG-2004 23:02
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	532.8402	pg	7	15	
Aroclor-1260	A			500.0000	536.7771	pg	7	15	
TCMX	A	8878.7	9331.2	100.0000	105.0970	pg	5	15	
Decachlorobiphenyl	A	10346	8681.1	100.0000	83.91172	pg	-16	15	c-
Aroclor-1016	B			500.0000	482.4728	pg	-4	15	
Aroclor-1260	B			500.0000	510.2568	pg	2	15	
TCMX	B	10362	10417	100.0000	100.5340	pg	1	15	
Decachlorobiphenyl	B	12247	10053	100.0000	82.08120	pg	-18	15	c-

DCB - Soil
In-House
QC Limits
46-151 %R
mcu 8/12/04

-=low bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204310220 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
002	215_002	X	ccv			02-AUG-2004 10:20	1.0						1	
003	215_003	CCV	pcb250_50			02-AUG-2004 10:53	1.0			1			1	
012	215_012	X	hex			02-AUG-2004 21:06	1.0							
013	215_013	ICAL	pcb10_2			02-AUG-2004 21:40	1.0						2	
014	215_014	ICAL	pcb25_5			02-AUG-2004 22:13	1.0						3	
015	215_015	ICAL	pcb100_20			02-AUG-2004 22:46	1.0						4	
016	215_016	ICAL	pcb250_50			02-AUG-2004 23:19	1.0						1	
017	215_017	ICAL	pcb500_100			02-AUG-2004 23:52	1.0						5	
018	215_018	ICAL	pcb750_150			03-AUG-2004 00:25	1.0						6	
019	215_019	ICAL	pcb1K_200			03-AUG-2004 00:59	1.0						7	
021	215_021	ICV	accu_1660			03-AUG-2004 02:05	1.0			1			8	
022	215_022	X	icv			03-AUG-2004 02:38	1.0						8	
023	215_023	X	icv			03-AUG-2004 03:11	1.0						9	
026	215_026	ICAL	pcb250_50			03-AUG-2004 12:25	1.0						1	

14

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204315074 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 05-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
002	218_002	CCV	pcb250_50			05-AUG-2004 19:14	1.0	1.0			1	1	
003	218_003	X	ccv			05-AUG-2004 19:47	1.0					1	
004	218_004	CCV	ar1254			05-AUG-2004 20:20	1.0	1.0			1	2	
005	218_005	X	ccv			05-AUG-2004 20:54	1.0	-				2	
007	218_007	BLANK	QC260127	93474	Soil	05-AUG-2004 22:00	1.0	0.8275			1		
008	218_008	BLANK	QC260197	93492	Water	05-AUG-2004 22:33	1.0	0.025			1		
009	218_009	BS	QC260198	93492	Water	05-AUG-2004 23:07	1.0	0.025			1		
010	218_010	BSD	QC260199	93492	Water	05-AUG-2004 23:40	1.0	0.025		1	1		
011	218_011	SAMPLE	173724-001	93492	Water	06-AUG-2004 00:13	1.0	0.02381		2	1		
012	218_012	LCS	QC260128	93474	Soil	06-AUG-2004 00:46	1.0	0.8389			1		
013	218_013	MS	QC260129	93474	Soil	06-AUG-2004 01:19	1.0	0.8437			1		
014	218_014	MSD	QC260130	93474	Soil	06-AUG-2004 01:53	1.0	0.8347			1		
015	218_015	MSS	173766-013	93474	Soil	06-AUG-2004 02:26	1.0	0.8463			1		
016	218_016	SAMPLE	173766-001	93474	Soil	06-AUG-2004 02:59	1.0	0.8311			1		
018	218_018	CCV	pcb500_100			06-AUG-2004 04:05	1.0	1.0			1	3	
019	218_019	X	ccv			06-AUG-2004 04:38	1.0					3	
020	218_020	CCV	ar1254			06-AUG-2004 05:12	1.0	1.0			1	2	
021	218_021	X	ccv			06-AUG-2004 05:45	1.0					2	
023	218_023	SAMPLE	173766-002	93474	Soil	06-AUG-2004 06:51	2.0	0.8395		1	1		
024	218_024	SAMPLE	173766-003	93474	Soil	06-AUG-2004 07:24	2.0	0.842		1	1		
025	218_025	SAMPLE	173766-004	93474	Soil	06-AUG-2004 07:58	5.0	0.8449	1	1	1		2:PCB126=2748.46
026	218_026	SAMPLE	173766-005	93474	Soil	06-AUG-2004 08:31	1.0	0.8406		1	1		
027	218_027	SAMPLE	173718-017	93426	Soil	06-AUG-2004 09:04	5.0	0.8342			1		
028	218_028	SAMPLE	173718-020	93426	Soil	06-AUG-2004 09:37	5.0	0.837			1		
030	218_030	X	ccv			06-AUG-2004 10:44	1.0					1	
031	218_031	CCV	pcb250_50			06-AUG-2004 11:17	1.0	1.0			1	1	
032	218_032	X	ccv			06-AUG-2004 11:50	1.0					2	
033	218_033	CCV	ar1254			06-AUG-2004 12:23	1.0	1.0			1	2	
035	218_035	BLANK	QC260344	93532	Soil	06-AUG-2004 13:53	1.0	0.8275			1		
036	218_036	LCS	QC260345	93532	Soil	06-AUG-2004 14:26	1.0	0.8455		1	1		
037	218_037	MS	QC260346	93532	Soil	06-AUG-2004 14:59	1.0	0.844			1		

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963

SEQUENCE SUMMARY FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204315074 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 05-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
038	218_038	MSD	QC260347	93532	Soil	06-AUG-2004 15:33	1.0	0.835			1		
039	218_039	MSS	173857-001	93532	Soil	06-AUG-2004 16:06	1.0	0.8273			1		
040	218_040	SAMPLE	173857-002	93532	Soil	06-AUG-2004 19:10	1.0	0.8395			1		
041	218_041	SAMPLE	173859-001	93532	Soil	06-AUG-2004 19:43	1.0	0.8426			1		
042	218_042	SAMPLE	173766-006	93474	Soil	06-AUG-2004 20:16	1.0	0.8446			1		
043	218_043	SAMPLE	173875-001	93532	Soil	06-AUG-2004 20:49	1.0	0.8435		4	1		
044	218_044	SAMPLE	173875-002	93532	Soil	06-AUG-2004 21:22	1.0	0.8138		4	1		
046	218_046	X	ccv			06-AUG-2004 22:29	1.0					3	
047	218_047	CCV	pcb500_100			06-AUG-2004 23:02	1.0	1.0			1	3	
051	218_051	BLANK	QC259994	93443	Filtra	07-AUG-2004 01:15	1.0	0.025			1		
052	218_052	LCS	QC259995	93443	Filtra	07-AUG-2004 01:48	1.0	0.025	1	1	1		
053	218_053	MS	QC259996	93443	Filtra	07-AUG-2004 02:21	1.0	0.025	1		1		
054	218_054	MSD	QC259997	93443	Filtra	07-AUG-2004 02:54	1.0	0.025	1		1		
055	218_055	BLANK	QC260321	93527	Soil	07-AUG-2004 03:28	1.0	0.6784			1		
056	218_056	LCS	QC260322	93527	Soil	07-AUG-2004 04:01	1.0	0.6859	1		1		
057	218_057	MS	QC260323	93527	Soil	07-AUG-2004 04:34	1.0	0.6835	1		1		
058	218_058	MSD	QC260324	93527	Soil	07-AUG-2004 05:07	1.0	0.6863	1	2	1		
059	218_059	SAMPLE	173735-012	93443	Filtra	07-AUG-2004 05:41	1.0	0.025			1		
060	218_060	MSS	173735-013	93443	Filtra	07-AUG-2004 06:14	1.0	0.025			1		
062	218_062	CCV	pcb250_50			07-AUG-2004 07:20	1.0	1.0	1		1	1	
063	218_063	X	ccv			07-AUG-2004 07:54	1.0					1	
067	218_067	SAMPLE	173766-009	93474	Soil	07-AUG-2004 10:07	1.0	0.8423		1	1		
068	218_068	SAMPLE	173766-010	93474	Soil	07-AUG-2004 10:40	1.0	0.8435		2	1		
069	218_069	SAMPLE	173766-011	93474	Soil	07-AUG-2004 11:13	1.0	0.8367			1		
070	218_070	SAMPLE	173766-012	93474	Soil	07-AUG-2004 11:46	1.0	0.837		2	1		
071	218_071	SAMPLE	173766-014	93474	Soil	07-AUG-2004 12:20	1.0	0.8437		1	1		
072	218_072	SAMPLE	173766-015	93474	Soil	07-AUG-2004 12:53	1.0	0.842			1		
073	218_073	SAMPLE	173766-016	93474	Soil	07-AUG-2004 13:26	1.0	0.8429			1		
074	218_074	SAMPLE	173766-017	93474	Soil	07-AUG-2004 13:59	1.0	0.8466		3	1		
075	218_075	SAMPLE	173766-018	93474	Soil	07-AUG-2004 14:33	1.0	0.846		1	1		
077	218_077	X	ccv			07-AUG-2004 15:39	1.0					3	

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963

SEQUENCE SUMMARY FOR 173857 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204315074 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 05-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	218_078	CCV	pcb500_100			07-AUG-2004 16:12	1.0	1.0			1	3	
082	218_082	SAMPLE	173766-007	93474	Soil	07-AUG-2004 18:26	1.0	0.8333	1	1	1		
083	218_083	SAMPLE	173766-008	93474	Soil	07-AUG-2004 18:59	1.0	0.844	1	1	1		
084	218_084	SAMPLE	173766-019	93474	Soil	07-AUG-2004 19:32	1.0	0.8375	1	1	1		
085	218_085	SAMPLE	173766-020	93474	Soil	07-AUG-2004 20:05	1.0	0.8455	1	2	1		
086	218_086	SAMPLE	173735-001	93527	Soil	07-AUG-2004 20:39	1.0						
087	218_087	SAMPLE	173735-002	93527	Soil	07-AUG-2004 21:12	1.0						
088	218_088	SAMPLE	173735-003	93527	Soil	07-AUG-2004 21:45	1.0						
089	218_089	SAMPLE	173735-006	93527	Soil	07-AUG-2004 22:18	1.0						
090	218_090	SAMPLE	173735-007	93527	Soil	07-AUG-2004 22:52	1.0						
091	218_091	SAMPLE	173735-009	93527	Soil	07-AUG-2004 23:25	1.0						
093	218_093	CCV	pcb250_50			08-AUG-2004 00:32	1.0	1.0	1		1	1	
094	218_094	X	ccv			08-AUG-2004 01:05	1.0					1	
098	218_098	SAMPLE	173735-010	93527	Soil	08-AUG-2004 03:18	1.0	0.6878	1		1		
099	218_099	SAMPLE	173735-011	93527	Soil	08-AUG-2004 03:51	1.0	0.6887	1		1		
100	218_100	SAMPLE	173759-001	93527	Soil	08-AUG-2004 04:24	1.0	0.6826	1		1		
101	218_101	SAMPLE	173759-002	93527	Soil	08-AUG-2004 04:58	1.0	0.6707	1		1		
102	218_102	SAMPLE	173759-003	93527	Soil	08-AUG-2004 05:31	1.0	0.6873	1		1		
103	218_103	SAMPLE	173759-004	93527	Soil	08-AUG-2004 06:04	1.0	0.6623	1		1		
104	218_104	SAMPLE	173759-005	93527	Soil	08-AUG-2004 06:37	1.0	0.6636	1		1		
105	218_105	MSS	173760-001	93527	Soil	08-AUG-2004 07:10	1.0	0.6826	1		1		
106	218_106	SAMPLE	173783-004	93527	Soil	08-AUG-2004 07:44	1.0	0.6793	1		1		
107	218_107	SAMPLE	173804-001	93527	Soil	08-AUG-2004 08:17	1.0	0.6882	1		1		
109	218_109	X	ccv			08-AUG-2004 09:23	1.0					3	
110	218_110	CCV	pcb500_100			08-AUG-2004 09:57	1.0	1.0			1	3	
114	218_114	SAMPLE	173804-002	93527	Soil	08-AUG-2004 12:09	1.0						
115	218_115	SAMPLE	173755-001	93527	Soil	08-AUG-2004 12:43	1.0						
116	218_116	SAMPLE	173755-002	93527	Soil	08-AUG-2004 13:16	1.0						
117	218_117	SAMPLE	173755-003	93527	Soil	08-AUG-2004 13:49	1.0						
119	218_119	X	ccv			08-AUG-2004 14:55	1.0					1	
120	218_120	CCV	pcb250_50			08-AUG-2004 15:29	1.0	1.0	2		1	1	

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963

Reporting Summary for 173857 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173857-001	Aroclor-1016	GC06	B	08/06/04 16:06
173857-001	Aroclor-1221	GC06	B	08/06/04 16:06
173857-001	Aroclor-1232	GC06	B	08/06/04 16:06
173857-001	Aroclor-1242	GC06	B	08/06/04 16:06
173857-001	Aroclor-1248	GC06	B	08/06/04 16:06
173857-001	Aroclor-1254	GC06	B	08/06/04 16:06
173857-001	Aroclor-1260	GC06	B	08/06/04 16:06
173857-001	TCMX	GC06	B	08/06/04 16:06
173857-001	Decachlorobiphenyl	GC06	B	08/06/04 16:06
173857-002	Aroclor-1016	GC06	B	08/06/04 19:10
173857-002	Aroclor-1221	GC06	B	08/06/04 19:10
173857-002	Aroclor-1232	GC06	B	08/06/04 19:10
173857-002	Aroclor-1242	GC06	B	08/06/04 19:10
173857-002	Aroclor-1248	GC06	B	08/06/04 19:10
173857-002	Aroclor-1254	GC06	B	08/06/04 19:10
173857-002	Aroclor-1260	GC06	B	08/06/04 19:10
173857-002	TCMX	GC06	B	08/06/04 19:10
173857-002	Decachlorobiphenyl	GC06	B	08/06/04 19:10
QC260344	Aroclor-1016	GC06	B	08/06/04 13:53
QC260344	Aroclor-1221	GC06	B	08/06/04 13:53
QC260344	Aroclor-1232	GC06	B	08/06/04 13:53
QC260344	Aroclor-1242	GC06	B	08/06/04 13:53
QC260344	Aroclor-1248	GC06	B	08/06/04 13:53
QC260344	Aroclor-1254	GC06	B	08/06/04 13:53
QC260344	Aroclor-1260	GC06	B	08/06/04 13:53
QC260344	TCMX	GC06	B	08/06/04 13:53
QC260344	Decachlorobiphenyl	GC06	B	08/06/04 13:53
QC260345	Aroclor-1016	GC06	B	08/06/04 14:26
QC260345	Aroclor-1260	GC06	B	08/06/04 14:26
QC260345	TCMX	GC06	B	08/06/04 14:26
QC260345	Decachlorobiphenyl	GC06	B	08/06/04 14:26
QC260346	Aroclor-1016	GC06	B	08/06/04 14:59
QC260346	Aroclor-1260	GC06	B	08/06/04 14:59
QC260346	TCMX	GC06	B	08/06/04 14:59
QC260346	Decachlorobiphenyl	GC06	B	08/06/04 14:59
QC260347	Aroclor-1016	GC06	B	08/06/04 15:33
QC260347	Aroclor-1260	GC06	B	08/06/04 15:33
QC260347	TCMX	GC06	B	08/06/04 15:33
QC260347	Decachlorobiphenyl	GC06	B	08/06/04 15:33

Curtis & Tompkins Laboratories Sample Preparation Summary 06-AUG-2004 12:22

Batch Number : 93532
Date Extracted: 06-AUG-2004
Extracted by : Amy Silverberg
Prep Method : 3550B

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343C
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version : PCB_s_rv7

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173857-001			Treadwell & Rollo	Soil	30.22	g	25	0.827267	1		.05	0		PCB	3665A	MSS
173857-002			Treadwell & Rollo	Soil	29.78	g	25	0:839490	1		.05	0		PCB	3665A	
173859-001			Treadwell & Rollo	Soil	29.67	g	25	0.842602	1		.05	0		PCB	3665A	
QC260344	MB			Soil	30.21	g	25	0.827541	1		.05	0		PCB	3665A	
QC260345	LCS			Soil	29.57	g	25	0.845451	1		.05	.05		PCB	3665A	
QC260346	MS	of 173857-001		Soil	29.62	g	25	0.844024	1		.05	.05		PCB	3665A	
QC260347	MSD	of 173857-001		Soil	29.94	g	25	0.835003	1		.05	.05		PCB	3665A	

Prep Chemist: A Silverberg Reviewed By: [signature] Date: 8/6/04

Relinquished By: A Silverberg Received By: [signature] Date: 08/06/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

LIMS Batch No: 93532
LIMS Analysis PCB
Extracted by: AMS
Date Extracted: 8/6/04

☑ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ EPA 3545 PFE (ASE Method# ____)
☐ Other ____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
173857-001 A	30.22	25.0	MSS
-002 A	29.78	↓	
173859-001 A	29.67	↓	
MB QC260344	30.21	↓	
LCS 45	29.57	↓	
MS 46	29.62	↓	
MSD 47	29.94	↓	

8/6/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM43310410	AMS 8/6/04
dried with CH_2Cl_2-rinsed ☑ ~~granular~~ powder Na_2SO_4 ☐ diatomaceous earth	EM43219415	↓
.05 mL of surrogate solution was added to all samples	04WS1343C	↓
.05 mL of spike solution 1660 was added to all spikes	04WS1320A	↓
1:1 CH_2Cl_2 (lot# EM44161):Acetone(lot# EM44179) was added to all	✓	↓
☑ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	↓
ASE Cellulose Filters used:	N/A	↓
PFE (ASE) / soxhlets on at:	↓	↓
PFE (ASE) / soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed ~~granular~~ powdered Na_2SO_4	EM43219415	↓
Concentrated to volumes noted above after exchange to Hexane Lot#	BJ CK898	↓
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTB X26046	↓
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	↓

Wilverberg 8/6/04

Continued from page ____
Continued on page ____

8/6/04
Reviewed by / Date

Sample ID	Weight(g)	Analyses	Comments
173853-001A	29.76	8310	MSS, in plastic bag
MB	30.09		EM433104 10
LCS	29.68		↓
MS	30.12		173853-001
MSD	30.16		↓
173859-001A	30.37	8081	
173857-001	29.81		
↓ -002 ↓	29.81		MSS
MB	30.46		EM433104 10
LCS	29.63		↓
MS	29.61		173857-002
MSD	29.60		↓
173859-001 A	29.67	PCB	
173857-001	30.22		MSS
↓ -002 ↓	29.78		
MB	30.21		EM433104 10
LCS	29.57		↓
MS	29.62		173857-001
MSD	29.94		↓

SCK 8/5/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 8/5/04

Signed: Date:

Sample ID	Weight(g)	Analyses	Comments
173853-001A	29.76	8310	MSS, in plastic bag
MB	30.09	↓	EM433104 10
LCS	29.68	↓	↓
MS	30.12	↓	173853-001
MSD	30.16	↓	↓
173859-001A	30.37	8081	
173857-001 ↓	29.81	↓	
↓ -002 ↓	29.81	↓	MSS
MB	30.46	↓	EM433104 10
LCS	29.63	↓	↓
MS	29.61	↓	173857-002
MSD	29.60	↓	↓
173859-001 A	29.67	PCB	
173857-001 ↓	30.22	↓	MSS
↓ -002 ↓	29.78	↓	
MB	30.21	↓	EM433104 10
LCS	29.57	↓	↓
MS	29.62	↓	173857-001
MSD	29.94	↓	↓

SCC 8/5/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 8/5/04 Signed: Date:

PCBs	GC_06a	GC_06b	GC_22a	GC_22b
Soil MDLs (ug/Kg)	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1016	3.9	9.0	2.2	2.4

	GC_06a	GC_06b	GC_22a	GC_22b
	4/10/04	4/10/04	4/19/04	4/19/04
Aroclor 1221	18	15	12	12

	GC_06a	GC_06b	GC_22a	GC_22b
	2/18/04	2/18/04	2/17/04	2/17/04
Aroclor 1232	4.0	4.8	8.5	8.8

	GC_06a	GC_06b	GC_14a	GC_14b	GC_22a	GC_22b
	2/18/04	2/18/04	5/04/04	5/04/04	1/15/04	1/15/04
Aroclor 1242	5.5	5.1	4.1	3.5	3.2	1.9

	GC_06a	GC_06b	GC_22a	GC_22b
	12/11/03	12/11/03	1/23/04	1/23/04
Aroclor 1248	3.1	3.4	3.2	7.8

	GC_06a	GC_06b	GC_22a	GC_22b
	8/12/03	8/12/03	7/26/03	7/26/03
Aroclor 1254	5.4	3.2	2.6	1.8

	GC_06a	GC_06b	GC_22a	GC_22b
	12/19/03	12/19/03	12/19/03	12/19/03
Aroclor 1260	3.9	3.9	1.7	4.5

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC06	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 204315074039	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 218_039	Batchnum	: 93532	Injected	: 06-AUG-2004 16:06
IDF	: 1.0			Units	: ug/Kg

Prep: 30.22 g --> 25.0 ml = 0.8273 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=218_035	Flags
Aroclor-1016	B	204310220001	ND			12		
Aroclor-1016 Peak # 1.....	B	204310220001	1.97	ND				
Aroclor-1016 Peak # 2.....	B	204310220001	7.52	ND				
Aroclor-1016 Peak # 3	B	204310220001	ND	ND				
Aroclor-1016 Peak # 4	B	204310220001	ND	3.41				
Aroclor-1016 Peak # 5.....	B	204310220001	2.39	ND				
Aroclor-1221	B		ND			24		
Aroclor-1232	B		ND			12		
Aroclor-1242	B		ND			12		
Aroclor-1248	B		ND			12		
Aroclor-1254	B		ND			12		
Aroclor-1260	B	204310220001	ND			12		
Aroclor-1260 Peak # 1	B	204310220001	ND	29.46				
Aroclor-1260 Peak # 2	B	204310220001	ND	ND				
Aroclor-1260 Peak # 3	B	204310220001	ND	ND				
Aroclor-1260 Peak # 4.....	B	204310220001	0.93	ND				
Aroclor-1260 Peak # 5.....	B	204310220001	1.33	ND				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	204310220001	33.09	31.40	95	65-135	
Decachlorobiphenyl	B	204310220001	33.09	22.89	69	65-135	>c-

-=low bias >=closing c=CCV

Analyst: [signature] Date: 08/09/04 Reviewer: [signature] Date: 8/9/04

Page 1 of 1

Software Version	: 6.1.2.0.1:D19	Date	: 8/9/04 11:03:16 AM
Sample Name	: 173857-001,93532,mss	Data Acquisition Time	: 8/6/04 4:06:15 PM
Instrument Name	: gc06	Channel	: B
Rack/Vial	: 1/39	Operator	: pc_pest01
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 39		

Result File : G:\gc06\chb\218b039p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.653	393325.55	37.96	0.8273	1	31.40	6.28
Aroclor-1016	9.002	4089.77	1.77	0.8273	1	1.46	0.29
Aroclor-1260	17.053	3237.93	0.65	0.8273	1	0.54	0.11
Decachlorobiphenyl	20.867	338816.30	27.67	0.8273	1	22.89	4.58
		739469.54	68.04			56.29	11.26

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.491	543.10	2.38	0.8273	1	1.97	0.39
PCB1016#2	9.002	2699.00	9.09	0.8273	1	7.52	1.50
PCB1016#3	9.666	0.00	0.00	0.8273	1	0.00	0.00
PCB1016#4	9.920	0.00	0.00	0.8273	1	0.00	0.00
PCB1016#5	11.067	847.66	2.89	0.8273	1	2.39	0.48
		4089.77	14.36			11.88	2.38

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.189	0.00	0.00	0.8273	1	0.00	0.00
PCB1260#2	14.774	0.00	0.00	0.8273	1	0.00	0.00
PCB1260#3	15.867	0.00	0.00	0.8273	1	0.00	0.00
PCB1260#4	16.467	715.76	1.13	0.8273	1	0.93	0.19
PCB1260#5	17.053	2522.16	1.61	0.8273	1	1.33	0.27
		3237.93	2.74			2.27	0.45

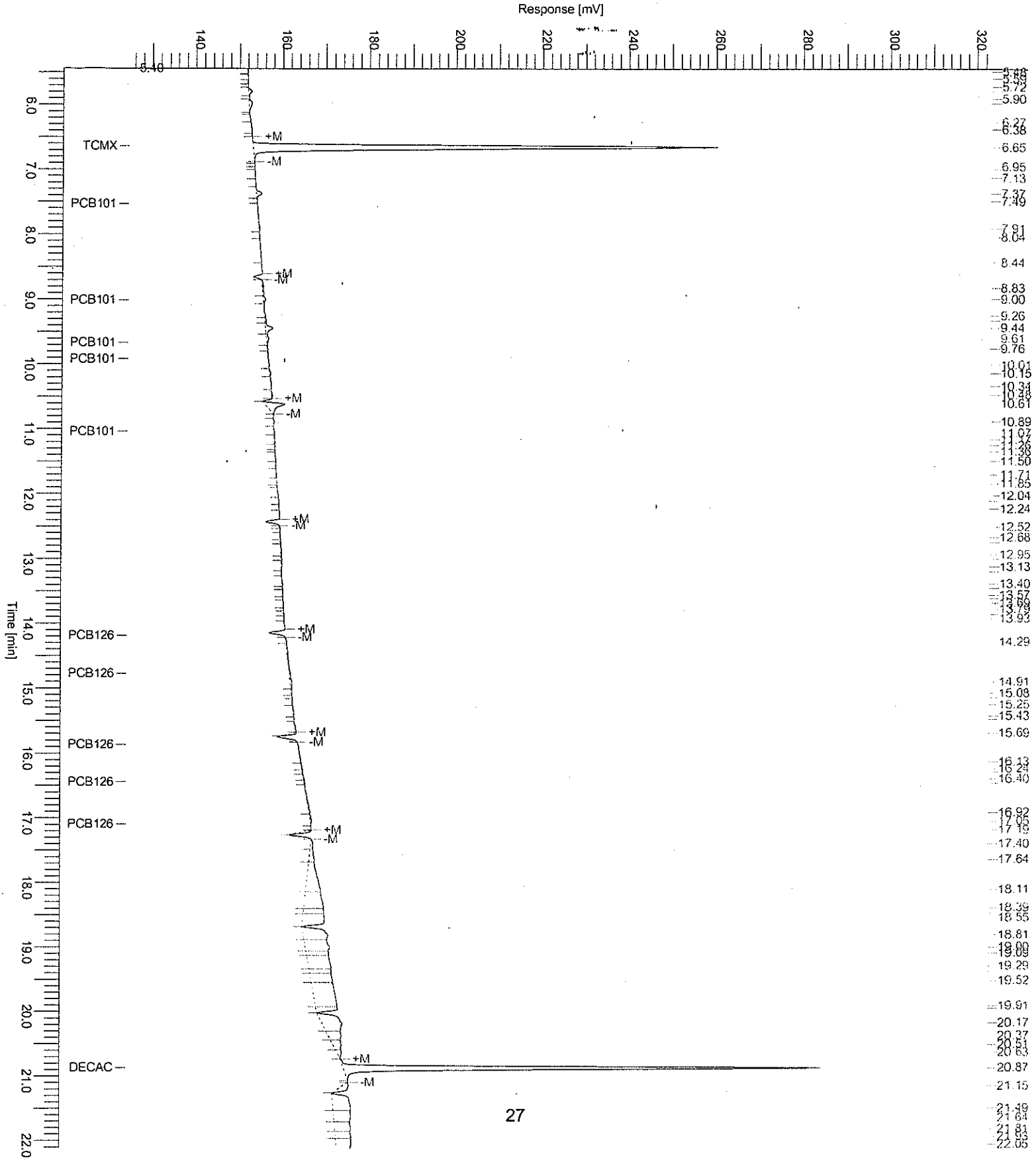
PA 8/9/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\218b039p.TX0

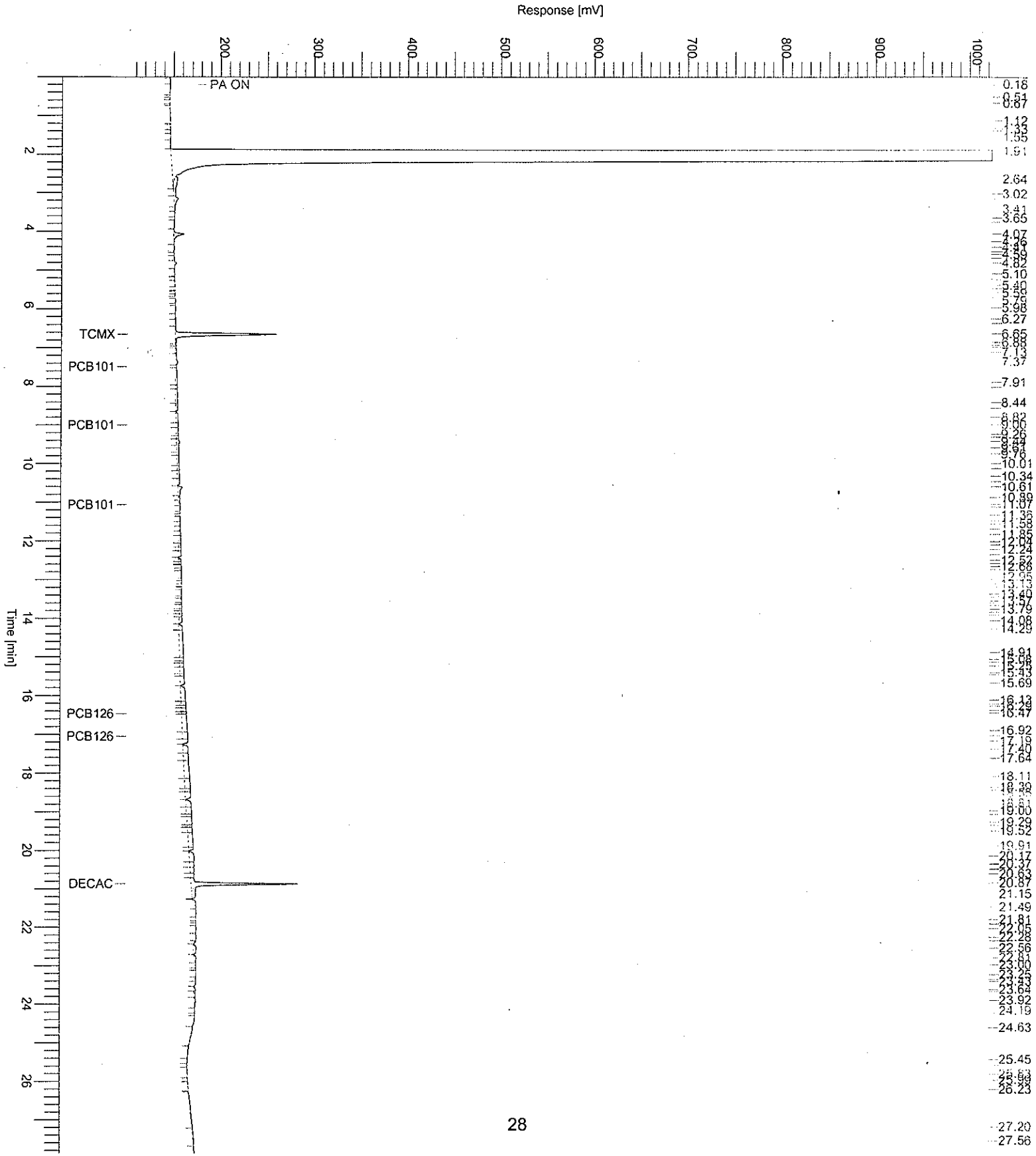
GC 06 Rtx-5

Sample Name : 173857-001,93532,mss Sample #: 93532 Page 1 of 1
FileName : G:\gc06\chb\218b039.raw
Date : 8/9/04 11:03:22 AM
Method : Time of Injection: 8/6/04 4:06:15 PM
Start Time : 5.44 min End Time : 22.12 min Low Point : 124.59 mV High Point : 323.28 mV
Plot Offset: 124.59 mV Plot Scale: 198.7 mV



GC 06 Rtx-5

Sample Name : 173857-001,93532,mss Sample #: 93532 Page 1 of 1
FileName : G:\gc06\chb\218b039
Date : 8/9/04 9:01:45 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 4:06:15 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 101.43 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 101.43 mV Plot Scale: 922.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 173857-001,93532,mss
Instrument Name : gc06
Rack/Vial : 1/39
Sample Amount : 1.000000
Cycle : 39

Date : 8/9/04 11:12:18 AM
Data Acquisition Time : 8/6/04 4:06:15 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a039p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	354890.62	39.97	0.8273	1	33.07	6.61
Aroclor-1016	11.503	1313.97	0.78	0.8273	1	0.64	0.13
Aroclor-1260	15.679	17081.21	5.98	0.8273	1	4.95	0.99
Decachlorobiphenyl	22.013	310962.57	30.06	0.8273	1	24.87	4.97
		684248.37	76.78			63.52	12.70

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.951	0.00	0.00	0.8273	1	0.00	0.00
PCB1016#2	9.928	0.00	0.00	0.8273	1	0.00	0.00
PCB1016#3	11.178	0.00	0.00	0.8273	1	0.00	0.00
PCB1016#4	11.503	1313.97	4.12	0.8273	1	3.41	0.68
PCB1016#5	12.588	0.00	0.00	0.8273	1	0.00	0.00
		1313.97	4.12			3.41	0.68

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.679	17081.21	35.62	0.8273	1	29.46	5.89
PCB1260#2	16.336	0.00	0.00	0.8273	1	0.00	0.00
PCB1260#3	17.305	0.00	0.00	0.8273	1	0.00	0.00
PCB1260#4	17.915	0.00	0.00	0.8273	1	0.00	0.00
PCB1260#5	18.665	0.00	0.00	0.8273	1	0.00	0.00
		17081.21	35.62			29.46	5.89

FA 8/9/04

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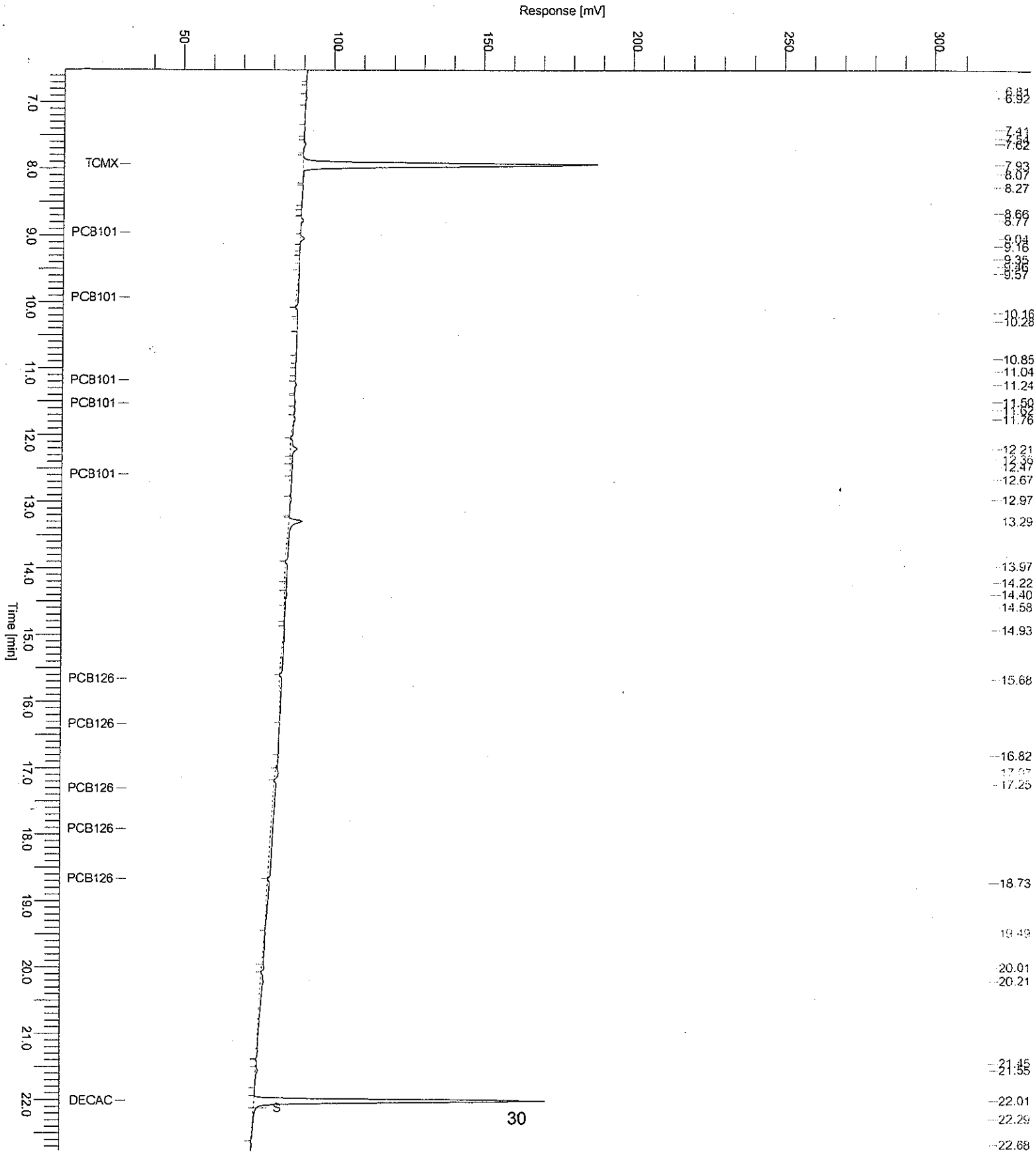
Report stored in ASCII file: G:\gc06\cha\218a039p.TX0

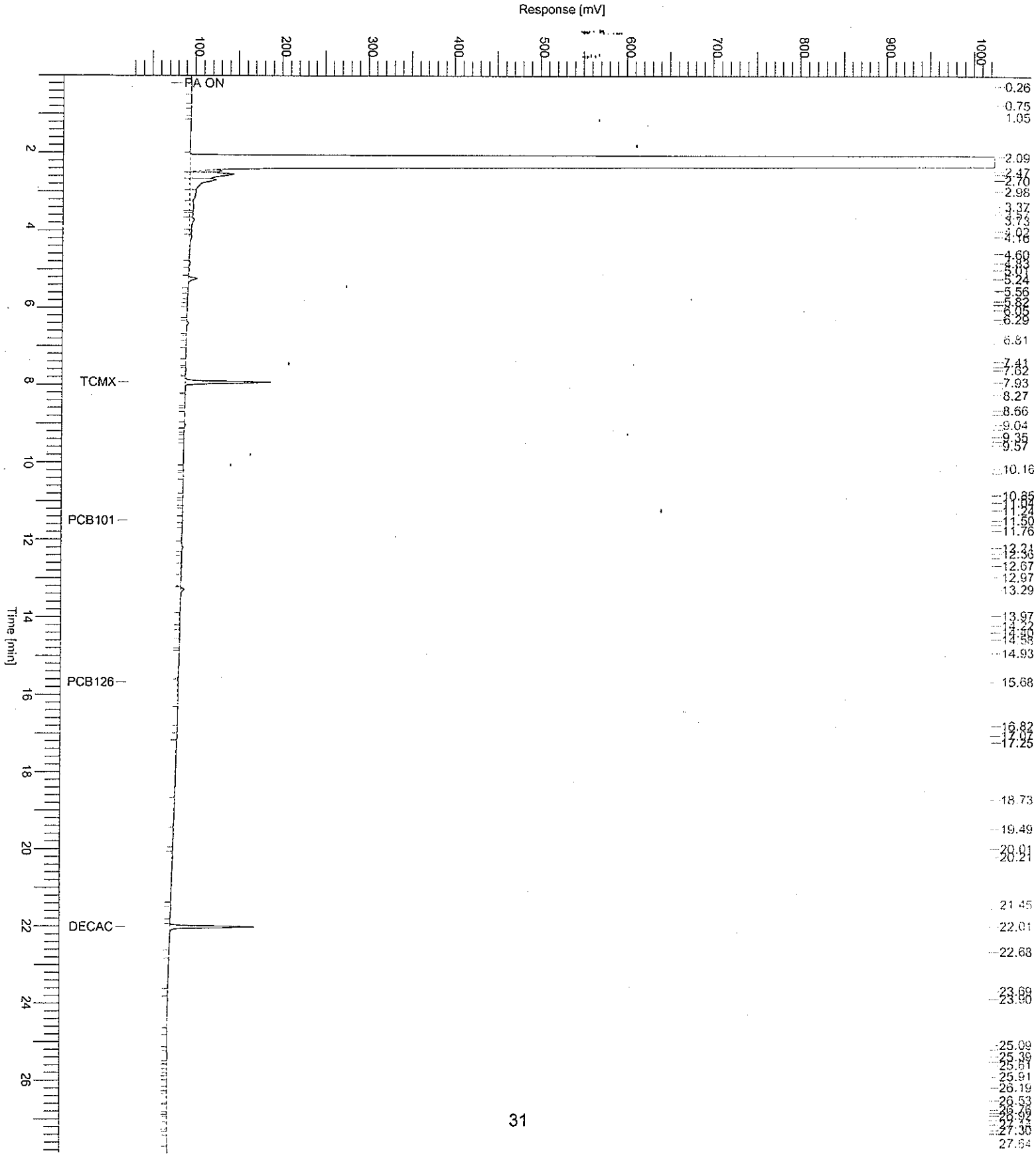
GC 06 Rtx-CLPesticides

Sample Name : 173857-001,93532,mss Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a039.raw
Date : 8/9/04 11:12:25 AM
Method : Time of Injection: 8/6/04 4:06:15 PM
Start Time : 6.51 min End Time : 22.76 min Low Point : 32.21 mV High Point : 319.54 mV
Plot Offset: 32.21 mV Plot Scale: 287.3 mV



GC 06 Rtx-CLPesticides

Sample Name : 173857-001,93532,mss Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a039.raw
Date : 8/9/04 9:00:48 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 4:06:15 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 23.61 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 23.61 mV Plot Scale: 1000.4 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC06	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 204315074040	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 218_040	Batchnum	: 93532	Injected	: 06-AUG-2004 19:10
IDF	: 1.0			Units	: ug/Kg

Prep: 29.78 g --> 25.0 ml = 0.8395 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=218_035	Flags
Aroclor-1016	B	204310220001	ND			12		
Aroclor-1016 Peak # 1	B	204310220001	ND	0.30				
Aroclor-1016 Peak # 2.....	B	204310220001	36.31	ND				
Aroclor-1016 Peak # 3	B	204310220001	ND	ND				
Aroclor-1016 Peak # 4.....	B	204310220001	1.90	5.07	91%			
Aroclor-1016 Peak # 5.....	B	204310220001	0.73	ND				
Aroclor-1221	B		ND			24		
Aroclor-1232	B		ND			12		
Aroclor-1242	B		ND			12		
Aroclor-1248	B		ND			12		
Aroclor-1254	B		ND			12		
Aroclor-1260	B	204310220001	ND			12		
Aroclor-1260 Peak # 1	B	204310220001	ND	20.67				
Aroclor-1260 Peak # 2	B	204310220001	ND	ND				
Aroclor-1260 Peak # 3	B	204310220001	ND	ND				
Aroclor-1260 Peak # 4.....	B	204310220001	26.27	ND				
Aroclor-1260 Peak # 5	B	204310220001	ND	5.81				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	204310220001	33.58	31.56	94	65-135	
Decachlorobiphenyl	B	204310220001	33.58	24.66	73	65-135	>c-

-=low bias >=closing c=CCV

Analyst: [signature] Date: 08/12/04 Reviewer: [signature] Date: 8/12/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 173857-002,93532
Instrument Name : gc06
Rack/Vial : 1/40
Sample Amount : 1.000000
Cycle : 40

Date : 8/9/04 10:34:49 AM
Data Acquisition Time : 8/6/04 7:10:19 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\218b040p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	389604.47	37.60	0.8395	1	31.56	6.31
Aroclor-1016	8.987	14073.32	6.08	0.8395	1	5.10	1.02
Aroclor-1260	16.427	19899.11	4.02	0.8395	1	3.37	0.67
Decachlorobiphenyl	20.853	359714.21	29.37	0.8395	1	24.66	4.93
		783291.11	77.06			64.70	12.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	0.00	0.00	0.8395	1	0.00	0.00
PCB1016#2	8.987	12848.03	43.25	0.8395	1	36.31	7.26
PCB1016#3	9.666	0.00	0.00	0.8395	1	0.00	0.00
PCB1016#4	9.880	970.60	2.26	0.8395	1	1.90	0.38
PCB1016#5	11.040	254.68	0.87	0.8395	1	0.73	0.15
		14073.32	46.38			38.93	7.79

PA 8/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.189	0.00	0.00	0.8395	1	0.00	0.00
PCB1260#2	14.774	0.00	0.00	0.8395	1	0.00	0.00
PCB1260#3	15.867	0.00	0.00	0.8395	1	0.00	0.00
PCB1260#4	16.427	19899.11	31.30	0.8395	1	26.27	5.25
PCB1260#5	17.094	0.00	0.00	0.8395	1	0.00	0.00
		19899.11	31.30			26.27	5.25

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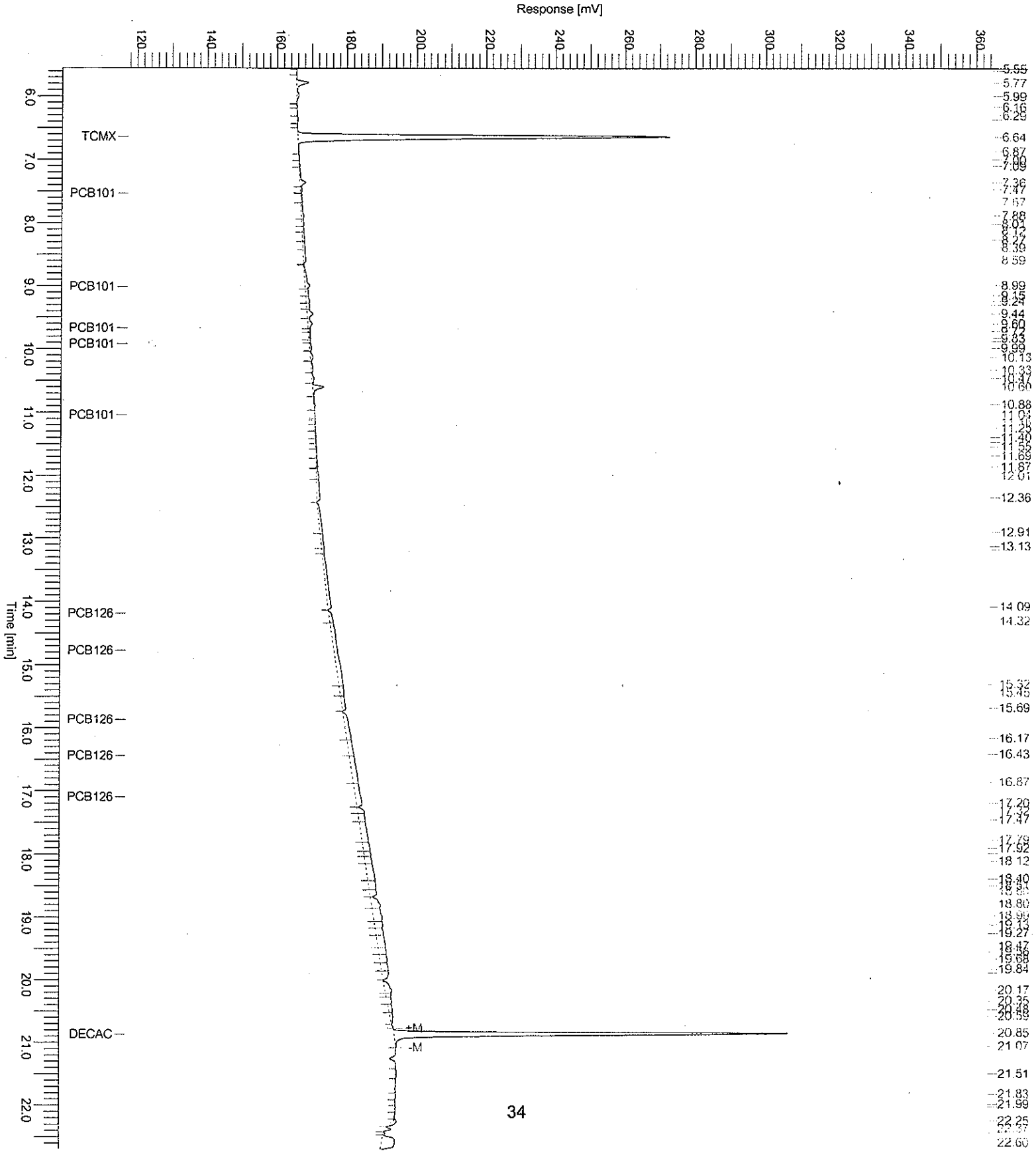
Report stored in ASCII file: G:\gc06\chb\218b040p.TX0

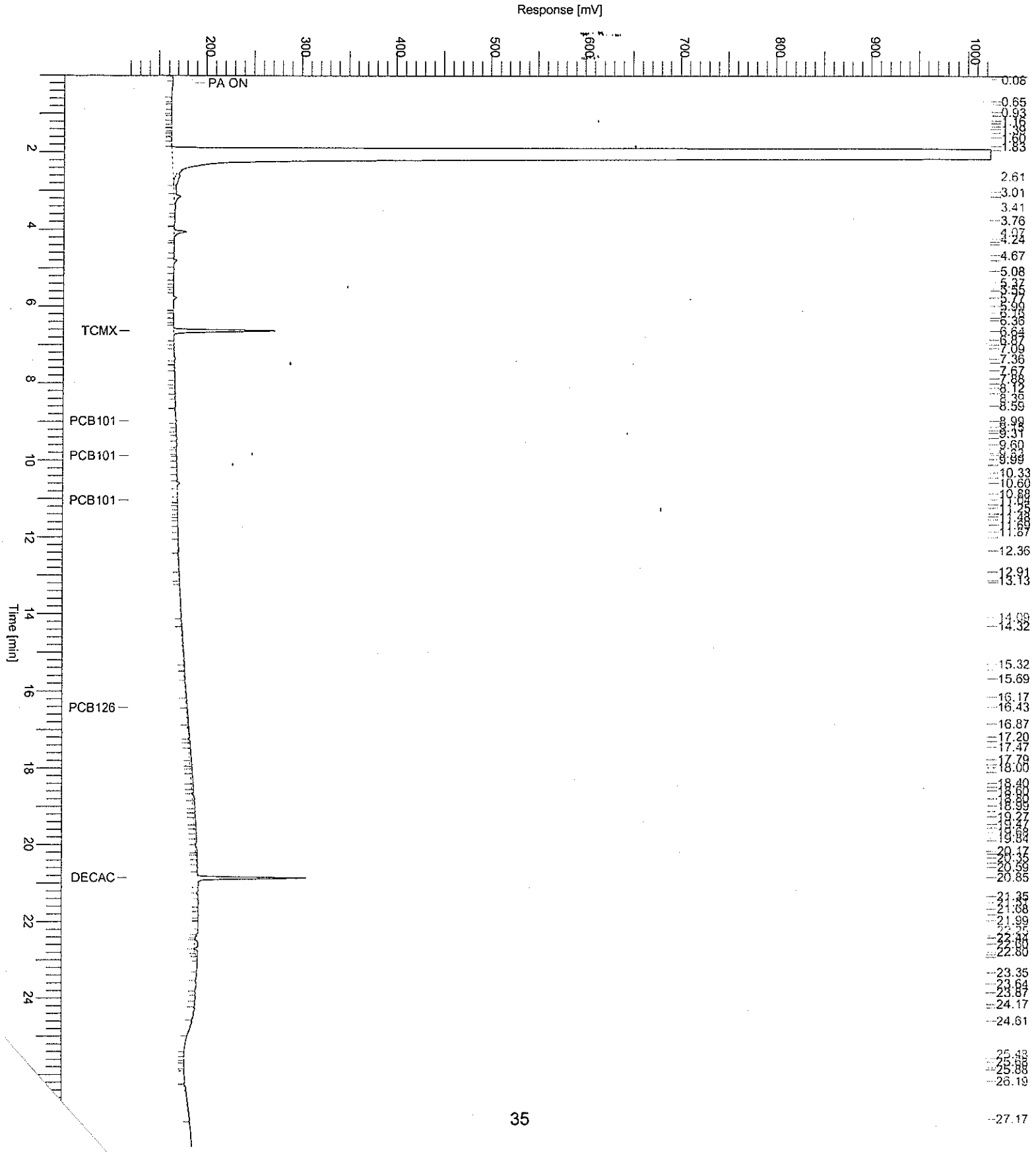
GC 06 Rtx-5

Sample Name : 173857-002,93532 Sample #: 93532 Page 1 of 1
FileName : G:\gc06\chb\218b040.raw
Date : 8/9/04 10:34:55 AM
Method :
Time of Injection: 8/6/04 7:10:19 PM
Start Time : 5.55 min End Time : 22.69 min Low Point : 117.30 mV High Point : 364.63 mV
Plot Offset: 117.30 mV Plot Scale: 247.3 mV



GC 06 Rtx-5

Sample Name : 173857-002,93532 Sample #: 93532
FileName : G:\gc06\chb\218b040
Date : 8/9/04 9:01:52 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 7:10:19 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 119.57 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 119.57 mV Plot Scale: 904.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 173857-002,93532
Instrument Name : gc06
Rack/Vial : 1/40
Sample Amount : 1.000000
Cycle : 40

Date : 8/9/04 10:27:17 AM
Data Acquisition Time : 8/6/04 7:10:19 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a040p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.947	345017.05	38.86	0.8395	1	32.62	6.52
Aroclor-1016	11.507	2005.88	1.18	0.8395	1	0.99	0.20
Aroclor-1260	18.712	17669.86	6.19	0.8395	1	5.19	1.04
Decachlorobiphenyl	22.013	332532.55	32.14	0.8395	1	26.98	5.40
		697225.34	78.37			65.79	13.16

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.904	78.56	0.36	0.8395	1	0.30	0.06
PCB1016#2	9.928	0.00	0.00	0.8395	1	0.00	0.00
PCB1016#3	11.178	0.00	0.00	0.8395	1	0.00	0.00
PCB1016#4	11.507	1927.32	6.04	0.8395	1	5.07	1.01
PCB1016#5	12.588	0.00	0.00	0.8395	1	0.00	0.00
		2005.88	6.40			5.37	1.07

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.655	11806.96	24.62	0.8395	1	20.67	4.13
PCB1260#2	16.336	0.00	0.00	0.8395	1	0.00	0.00
PCB1260#3	17.305	0.00	0.00	0.8395	1	0.00	0.00
PCB1260#4	17.915	0.00	0.00	0.8395	1	0.00	0.00
PCB1260#5	18.712	5862.90	6.93	0.8395	1	5.81	1.16
		17669.86	31.55			26.48	5.30

FA 8/9/04

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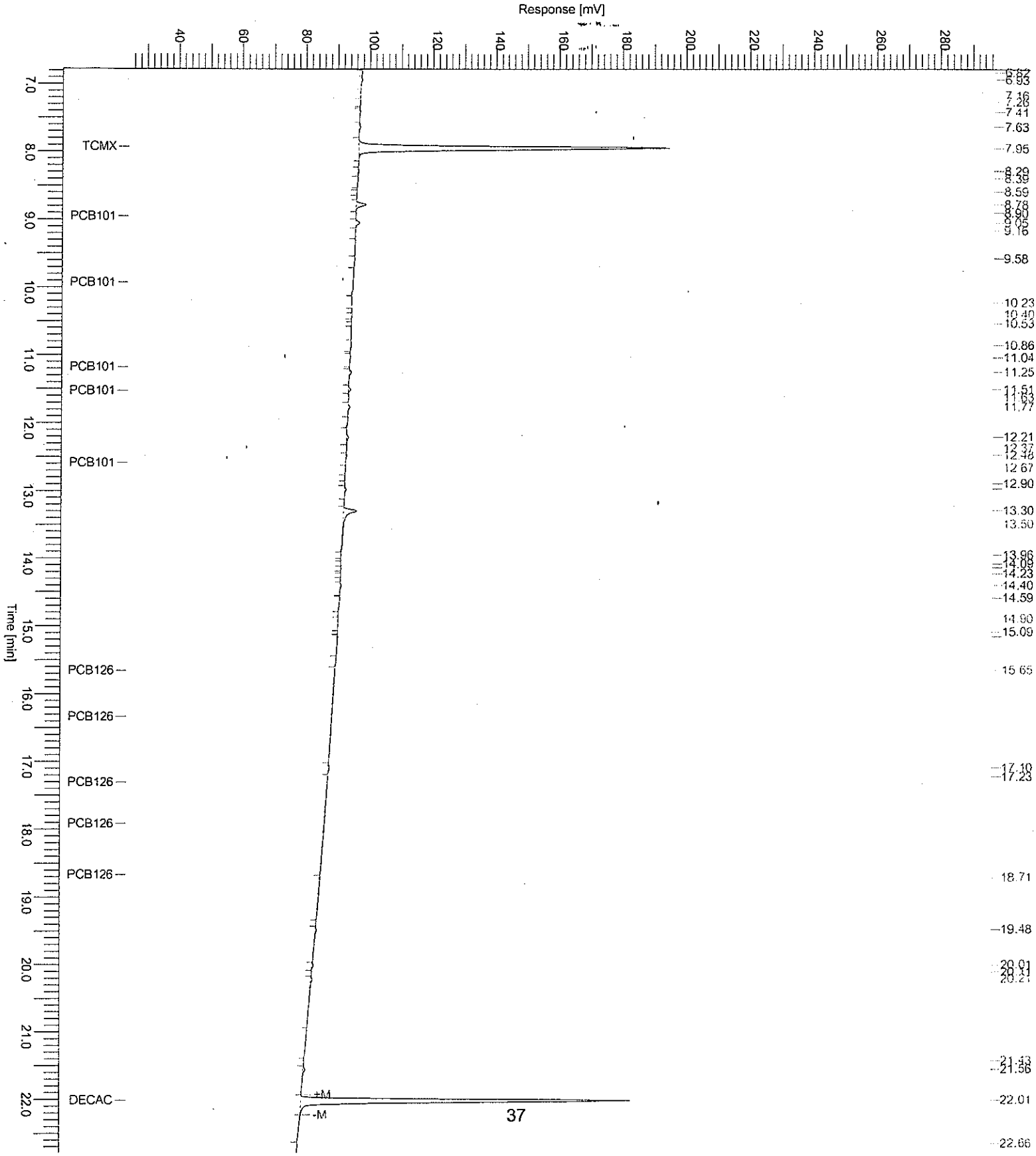
Report stored in ASCII file: G:\gc06\cha\218a040p.TX0

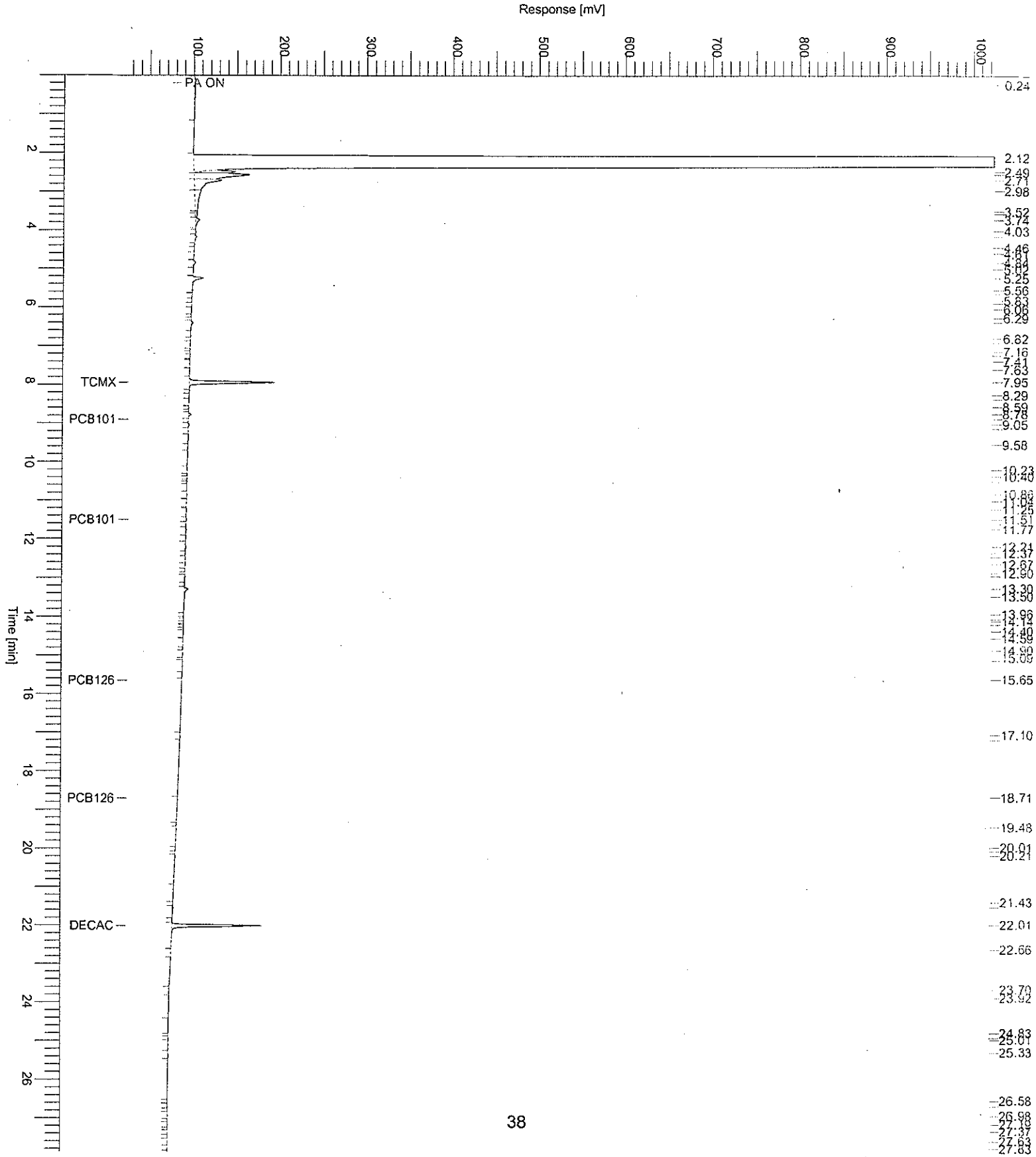
GC 06 Rtx-CLPesticides

Sample Name : 173857-002,93532 Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a040.raw
Date : 8/9/04 10:27:23 AM
Method : Time of Injection: 8/6/04 7:10:19 PM
Start Time : 6.77 min End Time : 22.79 min Low Point : 24.02 mV High Point : 296.83 mV
Plot Offset: 24.02 mV Plot Scale: 272.8 mV



GC 06 Rtx-CLPesticides

Sample Name : 173857-002,93532 Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a040.raw
Date : 8/9/04 9:00:55 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 7:10:19 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 26.52 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 26.52 mV Plot Scale: 997.5 mV



QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204315074035
Filename : 218_035
IDF : 1.0

Samplenum: QC260344
Matrix : Soil
Batchnum : 93532

Cident :
Acctnum : QC
Injected : 06-AUG-2004 13:53
Units : ug/Kg

Prep: 30.21 g --> 25.0 ml = 0.8275 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	Flags
Aroclor-1016	B	204310220001	20	1.3	175%	12	x
Aroclor-1016 Peak # 1	B	204310220001	ND	0.53			
Aroclor-1016 Peak # 2.....	B	204310220001	42.80	ND			
Aroclor-1016 Peak # 3	B	204310220001	ND	0.09			
Aroclor-1016 Peak # 4	B	204310220001	ND	5.77			
Aroclor-1016 Peak # 5.....	B	204310220001	54.77	ND			
Aroclor-1221	B		ND			24	
Aroclor-1232	B		ND			12	
Aroclor-1242	B		ND			12	
Aroclor-1248	B		ND			12	
Aroclor-1254	B		ND			12	
Aroclor-1260	B	204310220001	ND			12	
Aroclor-1260 Peak # 1	B	204310220001	ND	70.38			
Aroclor-1260 Peak # 2	B	204310220001	ND	ND			
Aroclor-1260 Peak # 3	B	204310220001	ND	ND			
Aroclor-1260 Peak # 4	B	204310220001	ND	ND			
Aroclor-1260 Peak # 5.....	B	204310220001	12.75	ND			

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	204310220001	33.10	30.04	91	63-140	
Decachlorobiphenyl	B	204310220001	33.10	23.22	70	46-151	>c-

mm 8/9/04

-=low bias >=closing c=CCV x=false positive

Software Version : 6.1.2.0.1:D19
Sample Name : qc260344,93532,mb
Instrument Name : gc06
Rack/Vial : 1/35
Sample Amount : 1.000000
Cycle : 35

Date : 8/6/04 3:03:39 PM
Data Acquisition Time : 8/6/04 1:53:45 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\218b035p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	376087.03	36.30	0.8275	1	30.04	6.01
Aroclor-1016	11.040	34767.28	15.01	0.8275	1	12.42	2.48
Aroclor-1260	17.080	24095.71	4.86	0.8275	1	4.03	0.81
Decachlorobiphenyl	20.867	343670.11	28.06	0.8275	1	23.22	4.64
		778620.12	84.23			69.71	13.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	0.00	0.00	0.8275	1	0.00	0.00
PCB1016#2	9.000	15365.21	51.72	0.8275	1	42.80	8.56
PCB1016#3	9.666	0.00	0.00	0.8275	1	0.00	0.00
PCB1016#4	9.920	0.00	0.00	0.8275	1	0.00	0.00
PCB1016#5	11.040	19402.07	66.19	0.8275	1	54.77	10.95
		34767.28	117.91			97.58	19.52

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.189	0.00	0.00	0.8275	1	0.00	0.00
PCB1260#2	14.774	0.00	0.00	0.8275	1	0.00	0.00
PCB1260#3	15.867	0.00	0.00	0.8275	1	0.00	0.00
PCB1260#4	16.440	0.00	0.00	0.8275	1	0.00	0.00
PCB1260#5	17.080	24095.71	15.41	0.8275	1	12.75	2.55
		24095.71	15.41			12.75	2.55

PA 8/6/04

----------CURTIS & TOMPKINS LTD----------

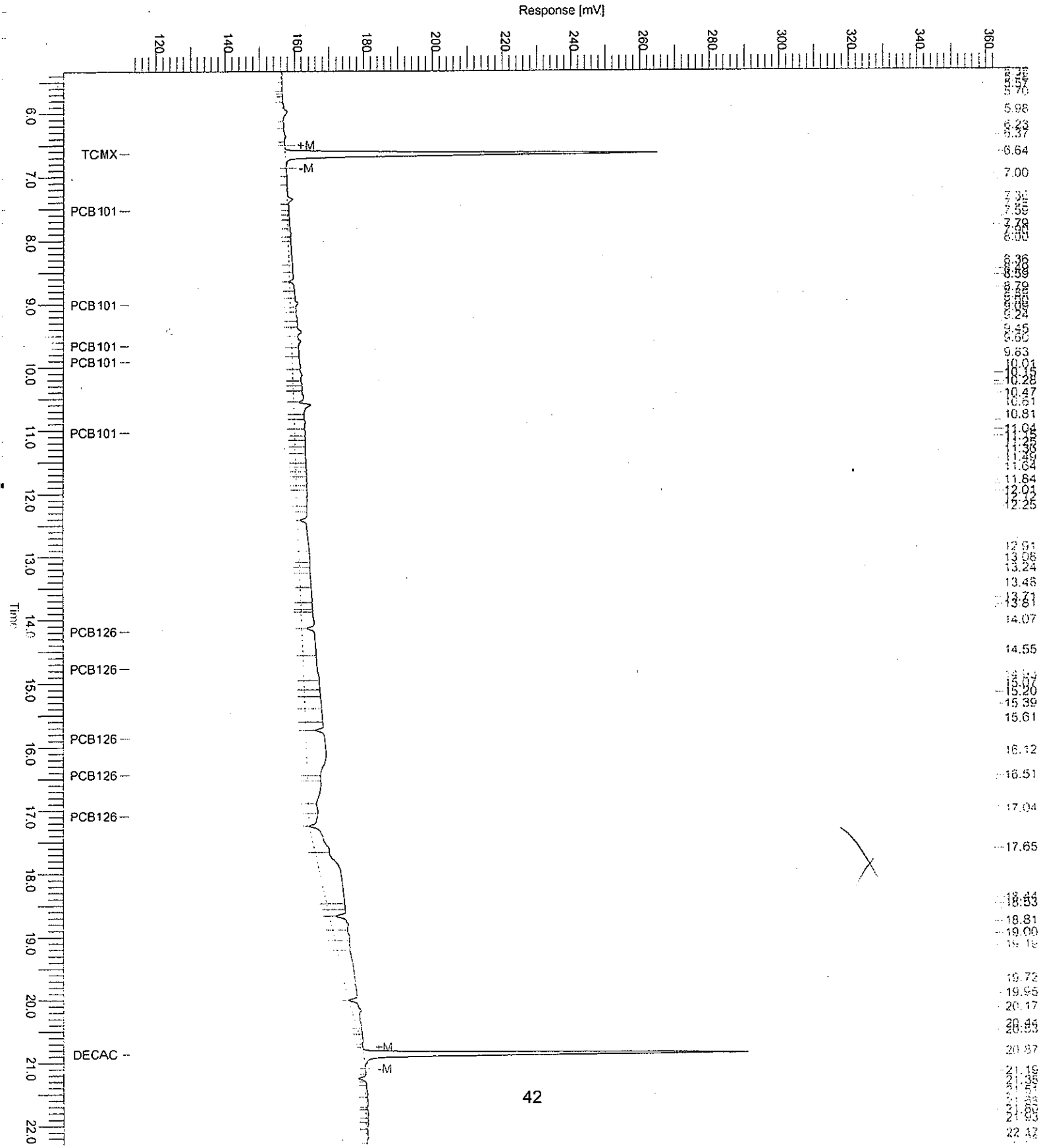
Report stored in ASCII file: G:\gc06\chb\218b035p.TX0

GC 06 Rtx-5

Sample Name : qc260344,93532,mb
FileName : G:\gc06\chb\218b035.raw
Date : 8/6/04 3:03:45 PM
Method :
Start Time : 5.33 min
Plot Offset: 112.42 mV

Sample #: 93532
Time of Injection: 8/6/04 1:53:45 PM
End Time : 22.29 min
Plot Scale: 249.9 mV

Page 1 of 1
Low Point : 112.42 mV
High Point : 362.35 mV

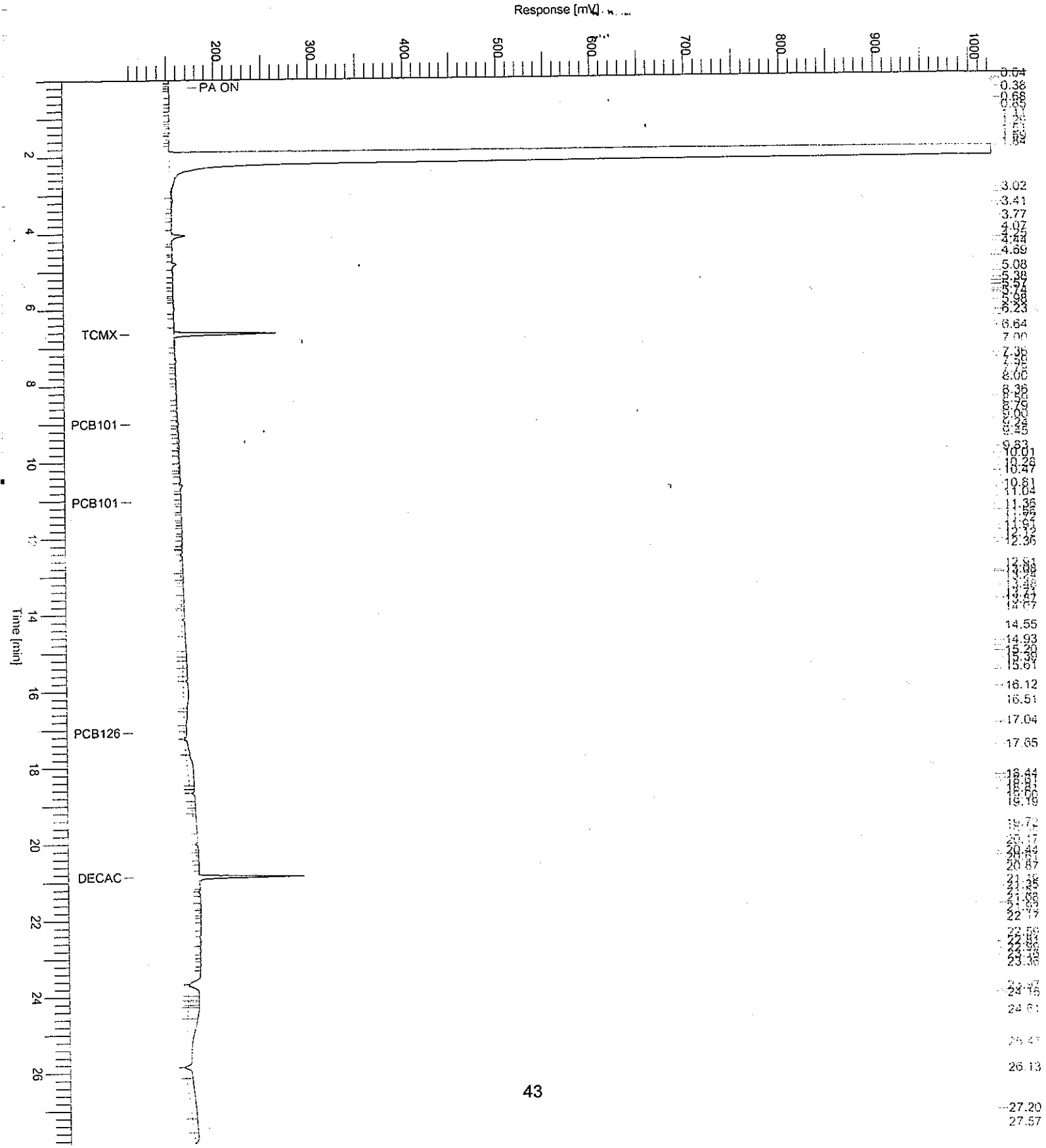


GC 06 Rtx-5

ample Name : qc260344,93532,mb
leName : G:\gc06\chb\218b035
ate : 8/6/04 2:57:57 PM
ethod : gc06fsa1ul
tart Time : 0.00 min End Time : 27.88 min
cale Factor: 1.0 Plot Offset: 109.65 mV

Sample #: 93532 Page 1 of 1

Time of Injection: 8/6/04 1:53:45 PM
Low Point : 109.65 mV High Point : 1024.00 mV
Plot Scale: 914.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc260344,93532,mb
Instrument Name : gc06
Rack/Vial : 1/35
Sample Amount : 1.000000
Cycle : 35

Date : 8/6/04 2:59:54 PM
Data Acquisition Time : 8/6/04 1:53:45 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a035p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.947	336021.98	37.85	0.8275	1	31.32	6.26
Aroclor-1016	11.511	2414.39	1.43	0.8275	1	1.18	0.24
Aroclor-1260	15.672	40789.72	14.28	0.8275	1	11.82	2.36
Decachlorobiphenyl	22.013	313040.75	30.26	0.8275	1	25.04	5.01
		692266.84	83.81			69.35	13.87

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.918	140.03	0.65	0.8275	1	0.53	0.11
PCB1016#2	9.928	0.00	0.00	0.8275	1	0.00	0.00
PCB1016#3	11.151	48.21	0.10	0.8275	1	0.09	0.02
PCB1016#4	11.511	2226.15	6.97	0.8275	1	5.77	1.15
PCB1016#5	12.588	0.00	0.00	0.8275	1	0.00	0.00
		2414.39	7.72			6.39	1.28

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.672	40789.72	85.05	0.8275	1	70.38	14.08
PCB1260#2	16.336	0.00	0.00	0.8275	1	0.00	0.00
PCB1260#3	17.305	0.00	0.00	0.8275	1	0.00	0.00
PCB1260#4	17.915	0.00	0.00	0.8275	1	0.00	0.00
PCB1260#5	18.665	0.00	0.00	0.8275	1	0.00	0.00
		40789.72	85.05			70.38	14.08

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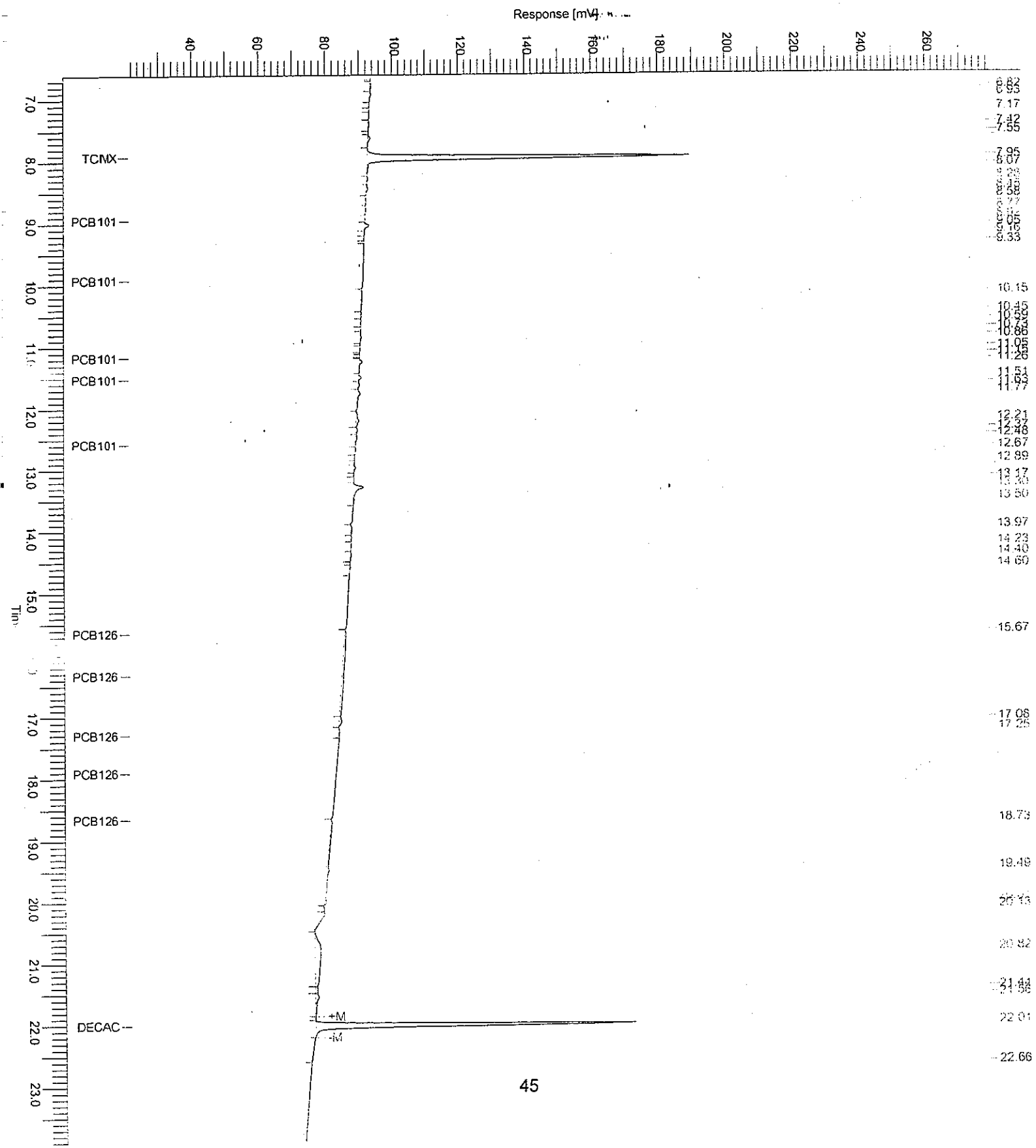
Report stored in ASCII file: G:\gc06\cha\218a035p.TX0

GC 06 Rtx-CLPesticides

Sample Name : qt260344,93532,mb
FileName : G:\gc06\cha\218a035.raw
Date : 8/6/04 3:00:00 PM
Method :
Start Time : 6.61 min
Plot Offset: 21.31 mV

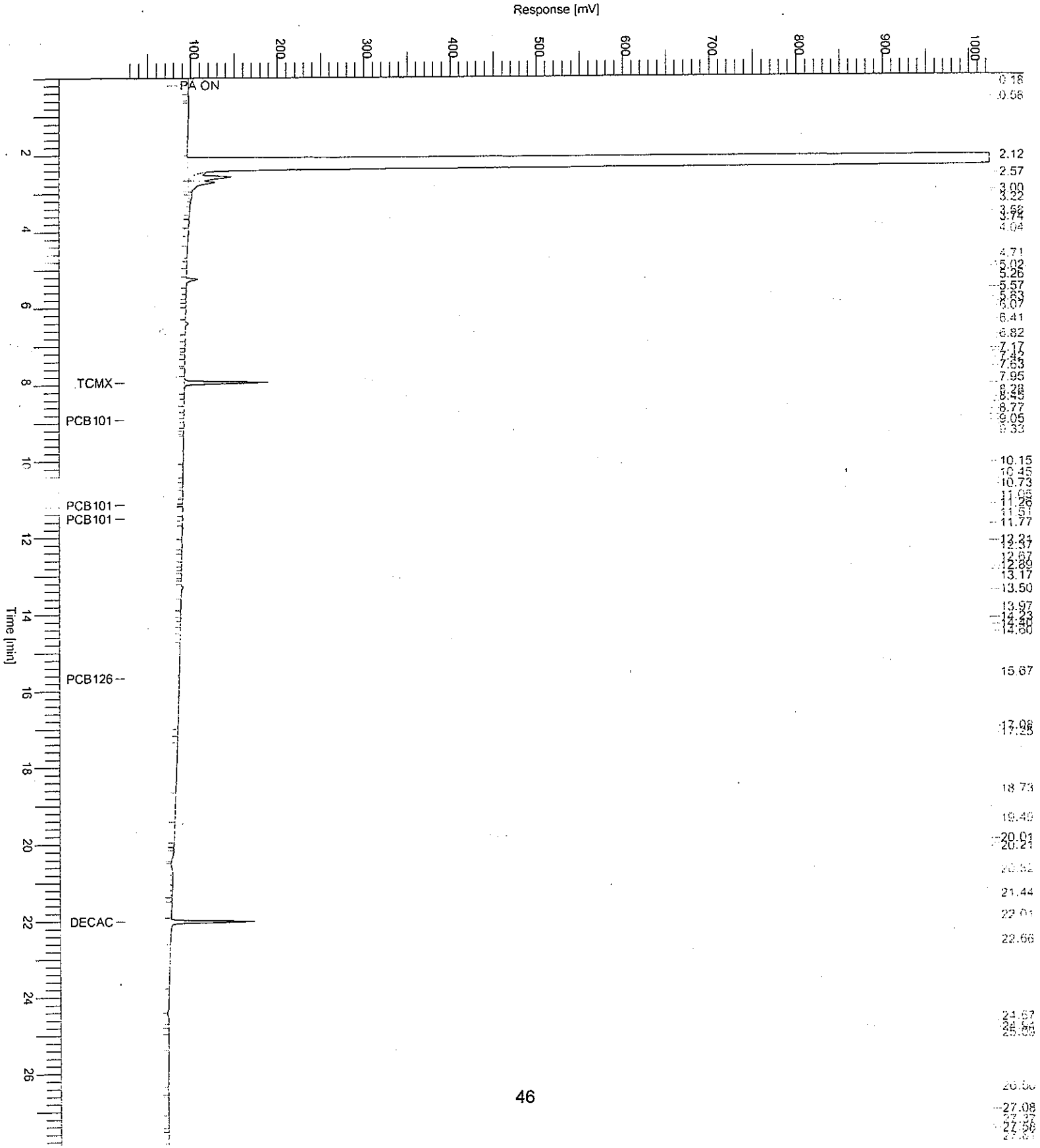
Sample #: 93532
Page 1 of 1

Time of Injection: 8/6/04 1:53:45 PM
End Time : 23.91 min
Low Point : 21.31 mV
High Point : 278.27 mV
Plot Scale: 257.0 mV



GC 06 Rtx-CLPesticides

Sample Name : qc260344,93532,mb Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a035.raw
Date : 8/6/04 2:57:43 PM
Method : gc06fsa1ul Time of Injection: 8/6/04 1:53:45 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 23.81 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 23.81 mV Plot Scale: 1000.2 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204315074036
Filename : 218_036
IDF : 1.0
Run type : LCS
Samplenum: QC260345
Matrix : Soil
Batchnum : 93532
Inj : 06-AUG-2004 14:26
Units : ug/Kg

LCS: 29.57 g --> 25.0 ml = 0.8455 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
Aroclor-1016	169.1	192.4	B	114	80-129	
Aroclor-1016 Peak # 1		187.8	B			
Aroclor-1016 Peak # 2		206.7	B			
Aroclor-1016 Peak # 3		185.7	B			
Aroclor-1016 Peak # 4		186.6	B			
Aroclor-1016 Peak # 5		195.3	B			
Aroclor-1260	169.1	203.2	B	120	80-131	
Aroclor-1260 Peak # 1		204.7	B			
Aroclor-1260 Peak # 2		200.9	B			
Aroclor-1260 Peak # 3		201.2	B			
Aroclor-1260 Peak # 4		205.4	B			
Aroclor-1260 Peak # 5		203.7	B			
TCMX	33.82	37.33	B	110	63-140	
Decachlorobiphenyl	33.82	29.43	B	87	46-151	>c-

mar 8/9/04

-=low bias >=closing c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : qc260345,93532,lcs
Instrument Name : gc06
Rack/Vial : 1/36
Sample Amount : 1.000000
Cycle : 36

Date : 8/6/04 3:05:59 PM
Data Acquisition Time : 8/6/04 2:26:51 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\218b036p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	457478.05	44.15	0.8455	1	37.33	7.47
Aroclor-1016	9.680	520476.68	224.73	0.8455	1	190.00	38.00
Aroclor-1260	17.107	1189566.58	240.15	0.8455	1	203.03	40.61
Decachlorobiphenyl	20.867	426279.17	34.81	0.8455	1	29.43	5.89
		2593800.48	543.83			459.78	91.96

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	50644.59	222.17	0.8455	1	187.83	37.57
PCB1016#2	9.013	72644.55	244.53	0.8455	1	206.74	41.35
PCB1016#3	9.680	234652.78	219.66	0.8455	1	185.71	37.14
PCB1016#4	9.920	94828.51	220.74	0.8455	1	186.62	37.32
PCB1016#5	11.053	67706.26	230.98	0.8455	1	195.28	39.06
		520476.68	1138.07			962.19	192.44

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.200	190630.09	242.14	0.8455	1	204.72	40.94
PCB1260#2	14.787	278316.60	237.68	0.8455	1	200.94	40.19
PCB1260#3	15.867	189367.11	237.97	0.8455	1	201.19	40.24
PCB1260#4	16.440	154510.83	243.00	0.8455	1	205.44	41.09
PCB1260#5	17.107	376741.95	240.94	0.8455	1	203.70	40.74
		1189566.58	1201.72			1016.00	203.20

FA 8/6/04

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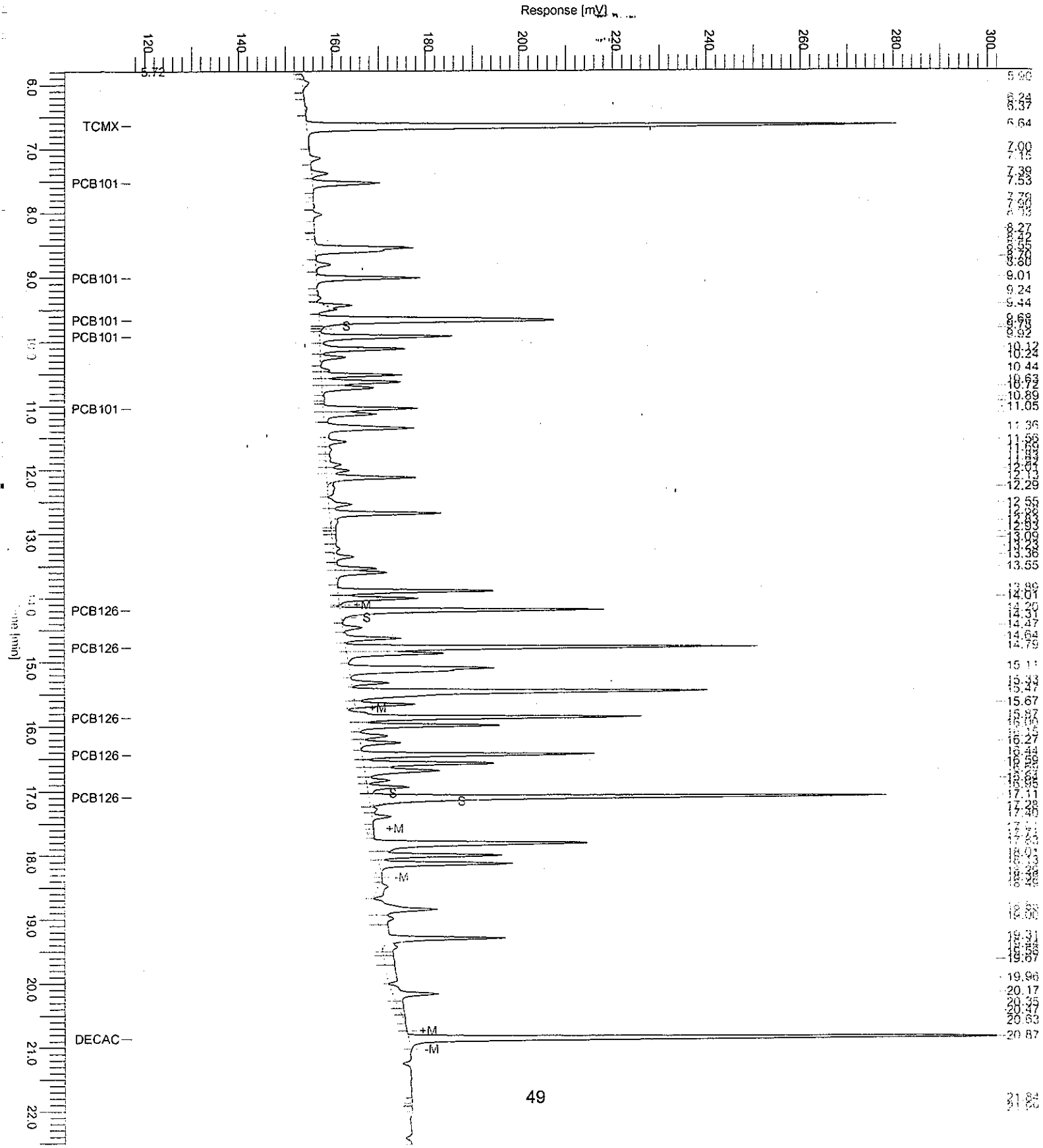
Report stored in ASCII file: G:\gc06\chb\218b036p.TX0

GC 06 Rtx-5

Sample Name : qc260345,93532,lcs Sample #: 93532 Page 1 of 1
FileName : G:\gc06\chb\218b036.raw
Date : 8/6/04 3:06:05 PM
Method : Time of Injection: 8/6/04 2:26:51 PM
Start Time : 5.79 min End Time : 22.53 min Low Point : 117.01 mV High Point : 302.13 mV
Plot Offset: 117.01 mV Plot Scale: 185.1 mV

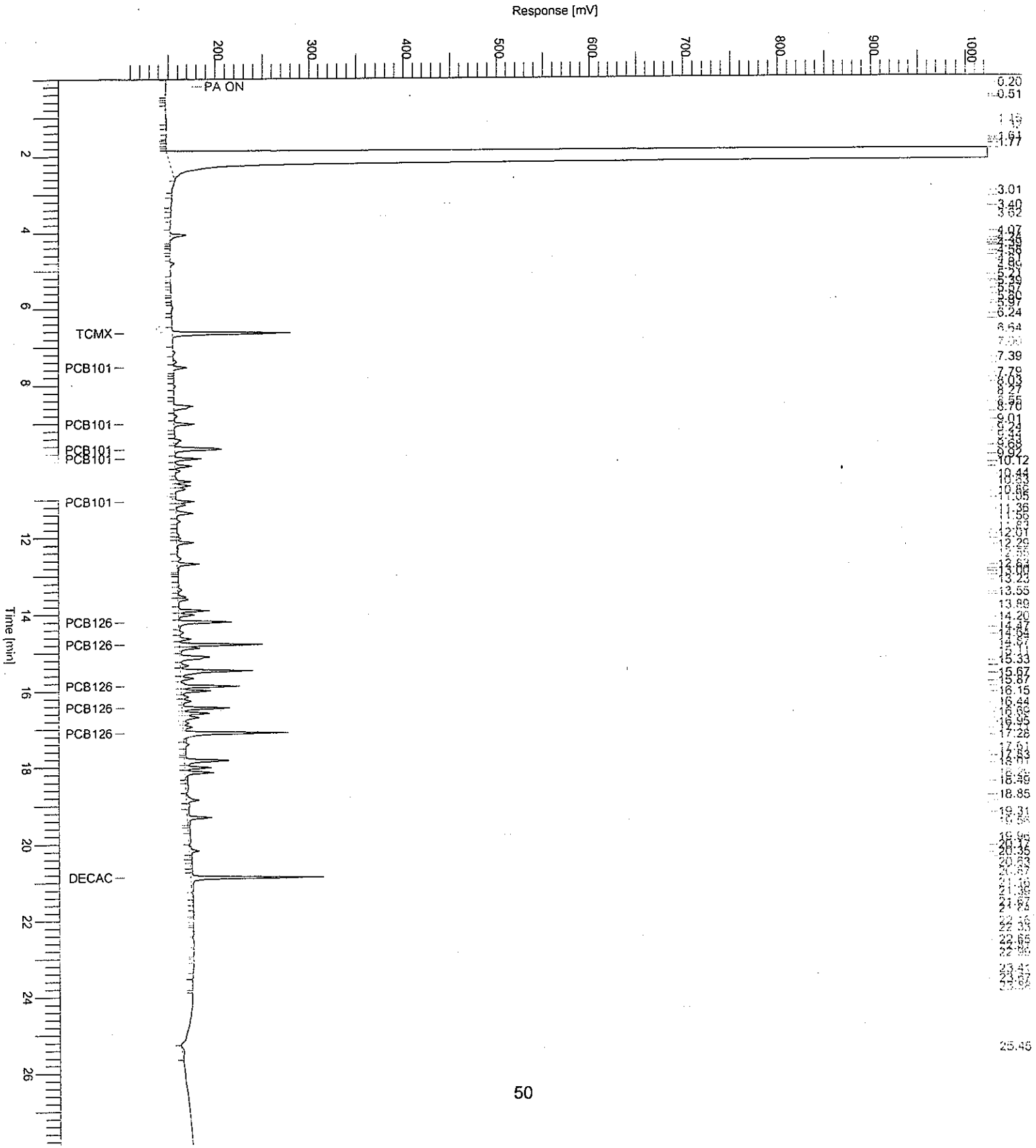


GC 06 Rtx-5

Sample Name : qc260345,93532,lcs
FileName : G:\gc06\chb\218b036
Date : 8/6/04 2:58:04 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 93532
Page 1 of 1

Time of Injection: 8/6/04 2:26:51 PM
End Time : 27.88 min
Low Point : 103.16 mV
High Point : 1024.00 mV
Plot Offset: 103.16 mV
Plot Scale: 920.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc260345,93532,lcs
Instrument Name : gc06
Rack/Vial : 1/36
Sample Amount : 1.000000
Cycle : 36

Date : 8/6/04 3:01:20 PM
Data Acquisition Time : 8/6/04 2:26:51 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a036p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	409158.16	46.08	0.8455	1	38.96	7.79
Aroclor-1016	11.182	416501.93	245.93	0.8455	1	207.92	41.58
Aroclor-1260	18.669	758857.07	265.63	0.8455	1	224.57	44.91
Decachlorobiphenyl	22.013	386413.33	37.35	0.8455	1	31.58	6.32
		1970930.49	594.99			503.04	100.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.958	52236.54	240.76	0.8455	1	203.55	40.71
PCB1016#2	9.934	101031.96	233.16	0.8455	1	197.13	39.43
PCB1016#3	11.182	125109.93	267.15	0.8455	1	225.87	45.17
PCB1016#4	11.532	75138.24	235.41	0.8455	1	199.03	39.81
PCB1016#5	12.592	62985.26	246.22	0.8455	1	208.17	41.63
		416501.93	1222.72			1033.75	206.75

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.662	120062.13	250.35	0.8455	1	211.66	42.33
PCB1260#2	16.345	195037.66	254.72	0.8455	1	215.36	43.07
PCB1260#3	17.308	107886.40	267.16	0.8455	1	225.87	45.17
PCB1260#4	17.919	97719.87	270.43	0.8455	1	228.64	45.73
PCB1260#5	18.669	238151.01	281.36	0.8455	1	237.88	47.58
		758857.07	1324.03			1119.40	223.88

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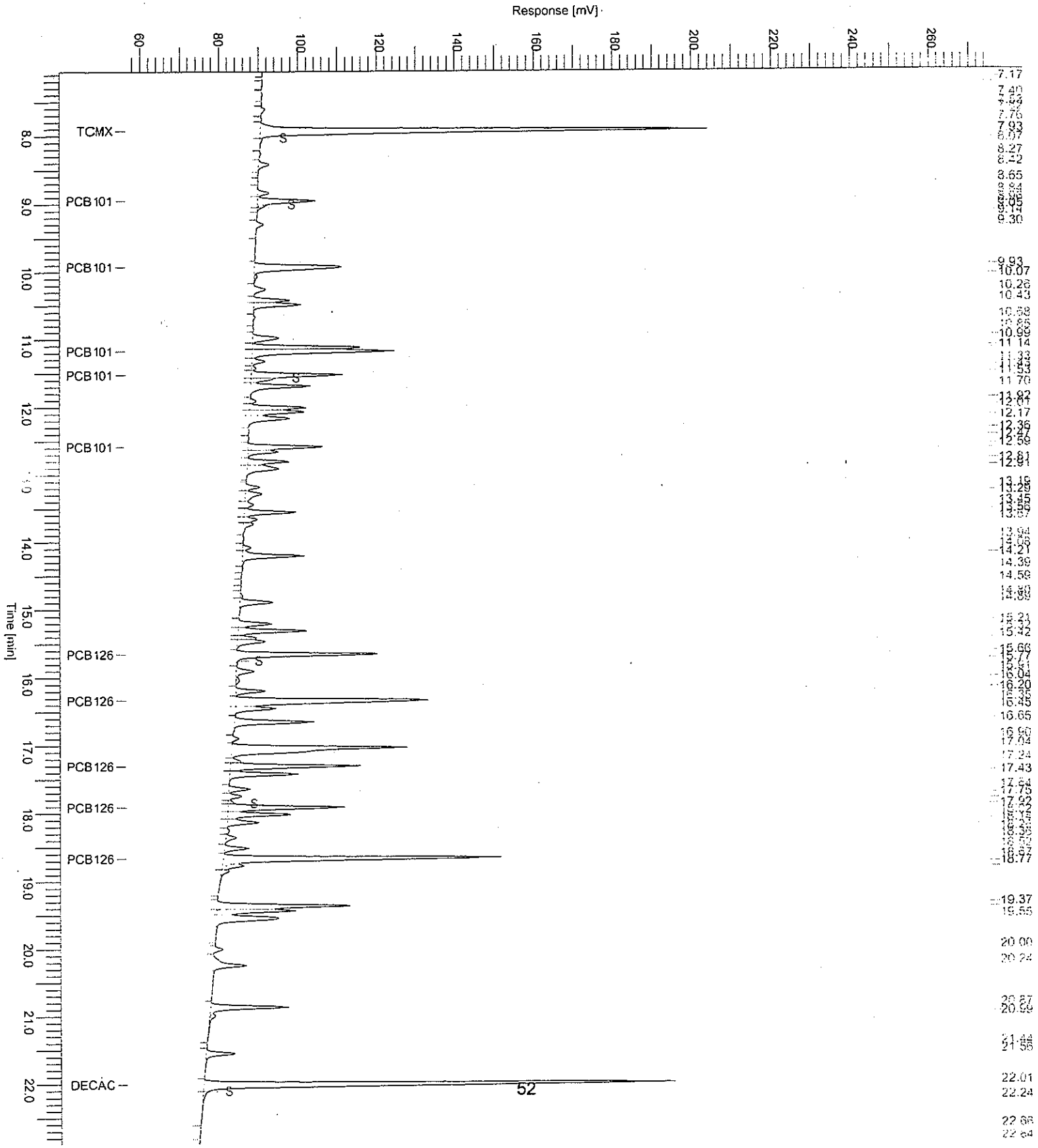
Report stored in ASCII file: G:\gc06\cha\218a036p.TX0

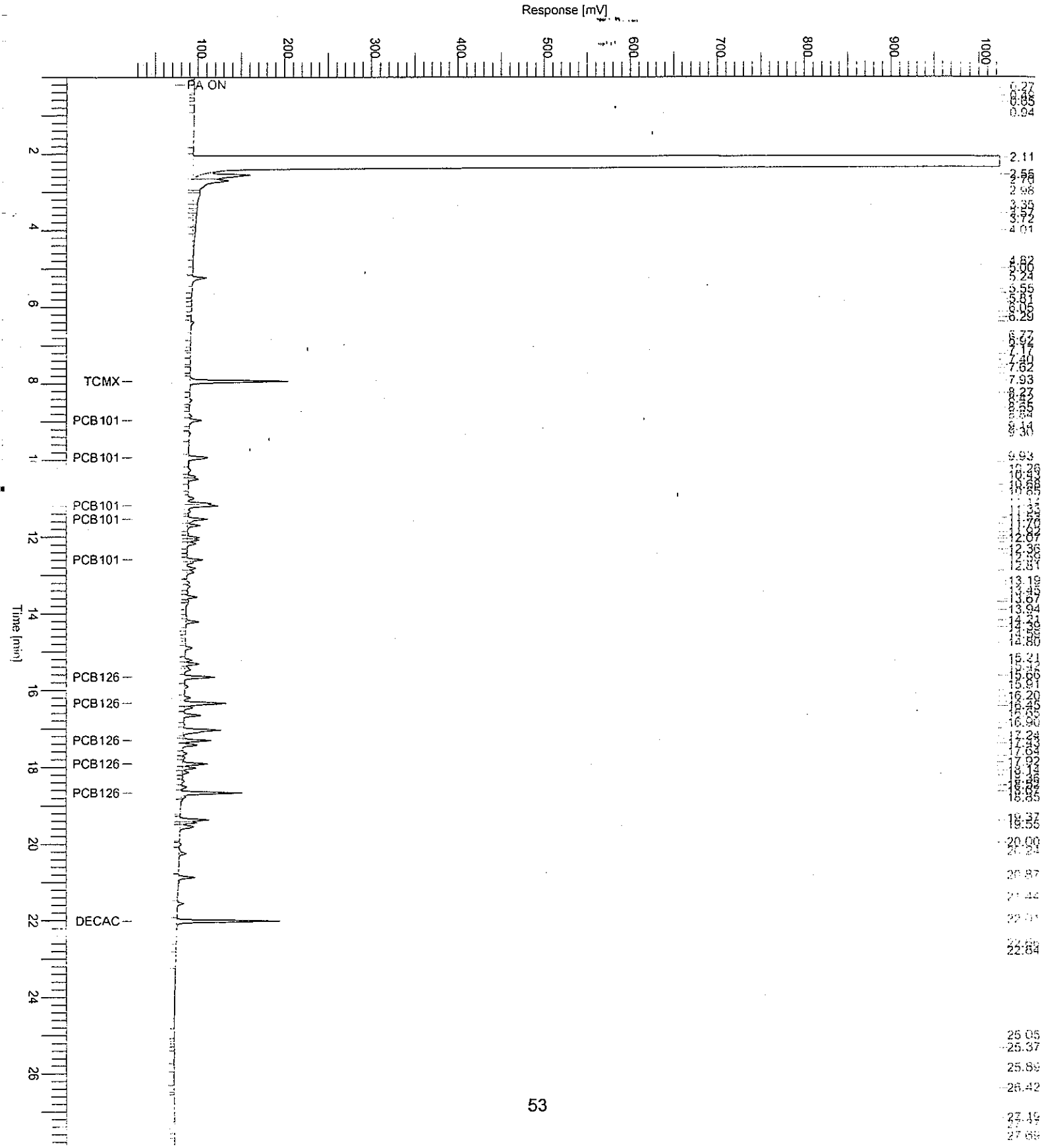
GC 06 Rtx-CLPesticides

Sample Name : qc260345,93532,lcs Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a036.raw
Date : 8/6/04 3:01:28 PM
Method : Time of Injection: 8/6/04 2:26:51 PM
Start Time : 7.05 min End Time : 22.89 min Low Point : 56.25 mV High Point : 275.00 mV
Plot Offset: 56.25 mV Plot Scale: 218.8 mV



GC 06 Rtx-CLPesticides

Sample Name : qc260345,93532,lcs Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a036.raw
Date : 8/6/04 2:57:50 PM
Method : gc06fsa1ul Time of Injection: 8/6/04 2:26:51 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 23.82 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 23.82 mV Plot Scale: 1000.2 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06	Instid : GC06	Instid : GC06
Seqnum : 204315074039	Seqnum : 204315074037	Seqnum : 204315074038
Filename : 218_039	Filename : 218_037	Filename : 218_038
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173857-001	Samplenum: QC260346	Samplenum: QC260347
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 93532	Batchnum : 93532	Batchnum : 93532
Inj : 06-AUG-2004 16:06	Inj : 06-AUG-2004 14:59	Inj : 06-AUG-2004 15:33
Units : ug/Kg		

MSS: 30.22 g --> 25.0 ml = 0.8273 ml/g PDF
MS: 29.62 g --> 25.0 ml = 0.844 ml/g PDF
MSD: 29.94 g --> 25.0 ml = 0.835 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
Aroclor-1016	ND	B	167.0	164.5	B	97	168.4	B	101	65-155	3	27	u
Aroclor-1016 Peak # 1				162.3	B		169.2	B					
Aroclor-1016 Peak # 2				169.7	B		174.8	B					
Aroclor-1016 Peak # 3				163.0	B		162.9	B					
Aroclor-1016 Peak # 4				163.4	B		166.8	B					
Aroclor-1016 Peak # 5				163.9	B		168.2	B					
Aroclor-1260	ND	B	167.0	186.3	B	110	158.2	B	95	63-127	15	34	u
Aroclor-1260 Peak # 1				176.2	B		158.5	B					
Aroclor-1260 Peak # 2				181.8	B		161.5	B					
Aroclor-1260 Peak # 3				190.7	B		159.1	B					
Aroclor-1260 Peak # 4				189.2	B		156.5	B					
Aroclor-1260 Peak # 5				193.6	B		155.5	B					
TCMX			33.40	33.26	B	99	33.29	B	100	63-140	--		u
Decachlorobiphenyl			33.40	27.53	B	82	23.11	B	69	46-151	--		>c- u

-=low bias >=closing c=CCV u=use

mcs 8/12/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc260346,93532,ms
Instrument Name : gc06
Rack/Vial : 1/37
Sample Amount : 1.000000
Cycle : 37

Date : 8/9/04 10:56:59 AM
Data Acquisition Time : 8/6/04 2:59:57 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\218b037p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	408354.54	39.41	0.8440	1	33.26	6.65
Aroclor-1016	9.680	449907.64	194.26	0.8440	1	163.96	32.79
Aroclor-1260	17.107	1097579.47	221.58	0.8440	1	187.02	37.40
Decachlorobiphenyl	20.867	399470.34	32.62	0.8440	1	27.53	5.51
		2355311.98	487.86			411.77	82.35

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	43829.00	192.27	0.8440	1	162.28	32.46
PCB1016#2	9.013	59735.68	201.08	0.8440	1	169.72	33.94
PCB1016#3	9.680	206245.67	193.07	0.8440	1	162.95	32.59
PCB1016#4	9.920	83159.97	193.58	0.8440	1	163.38	32.68
PCB1016#5	11.040	56937.32	194.24	0.8440	1	163.94	32.79
		449907.64	974.23			822.27	164.45

PA 8/9/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.200	164370.60	208.79	0.8440	1	176.22	35.24
PCB1260#2	14.787	252244.60	215.41	0.8440	1	181.81	36.36
PCB1260#3	15.867	179771.86	225.91	0.8440	1	190.67	38.13
PCB1260#4	16.440	142531.05	224.16	0.8440	1	189.20	37.84
PCB1260#5	17.107	358661.35	229.38	0.8440	1	193.60	38.72
		1097579.47	1103.64			931.50	186.30

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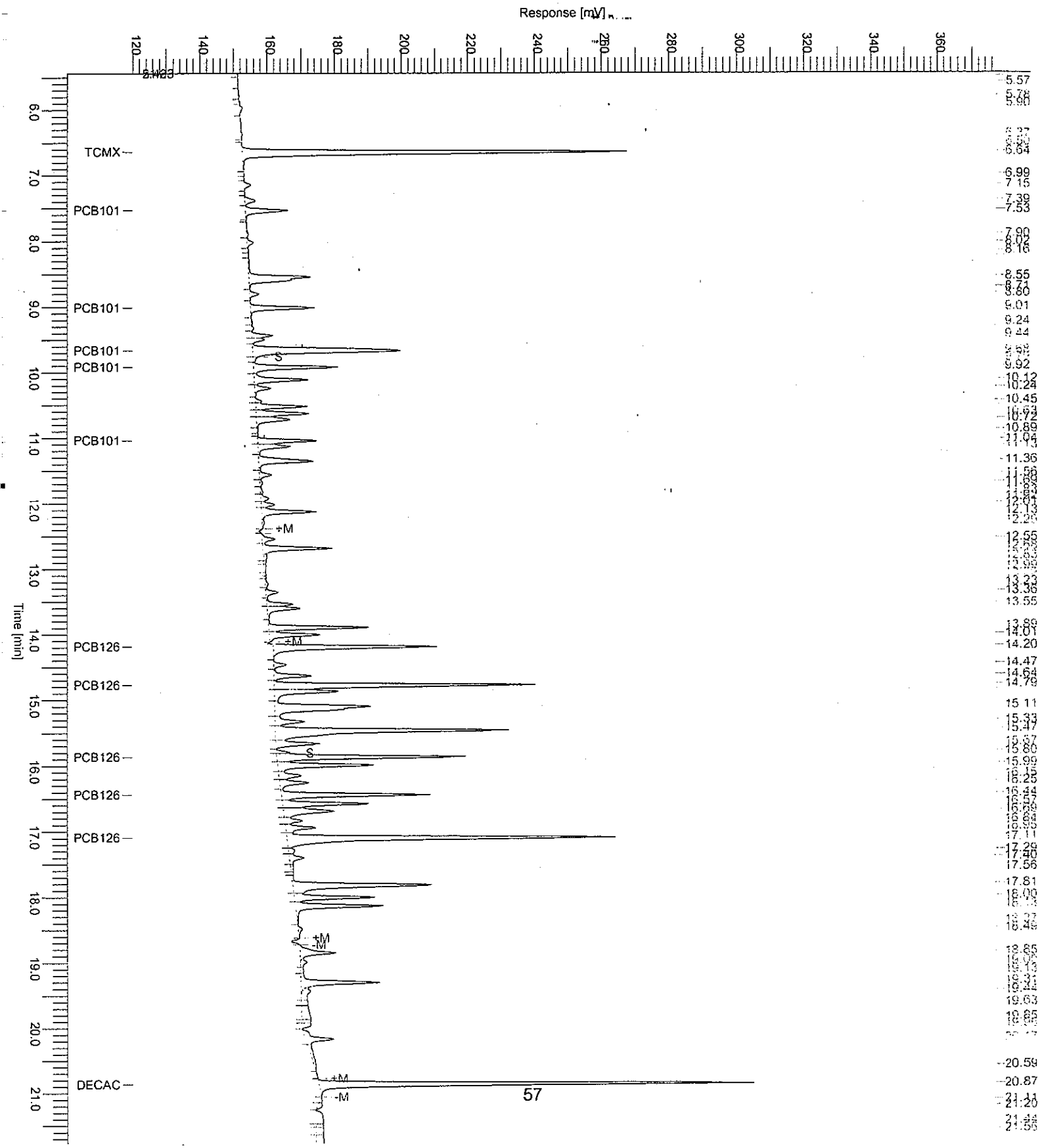
Report stored in ASCII file: G:\gc06\chb\218b037p.TX0

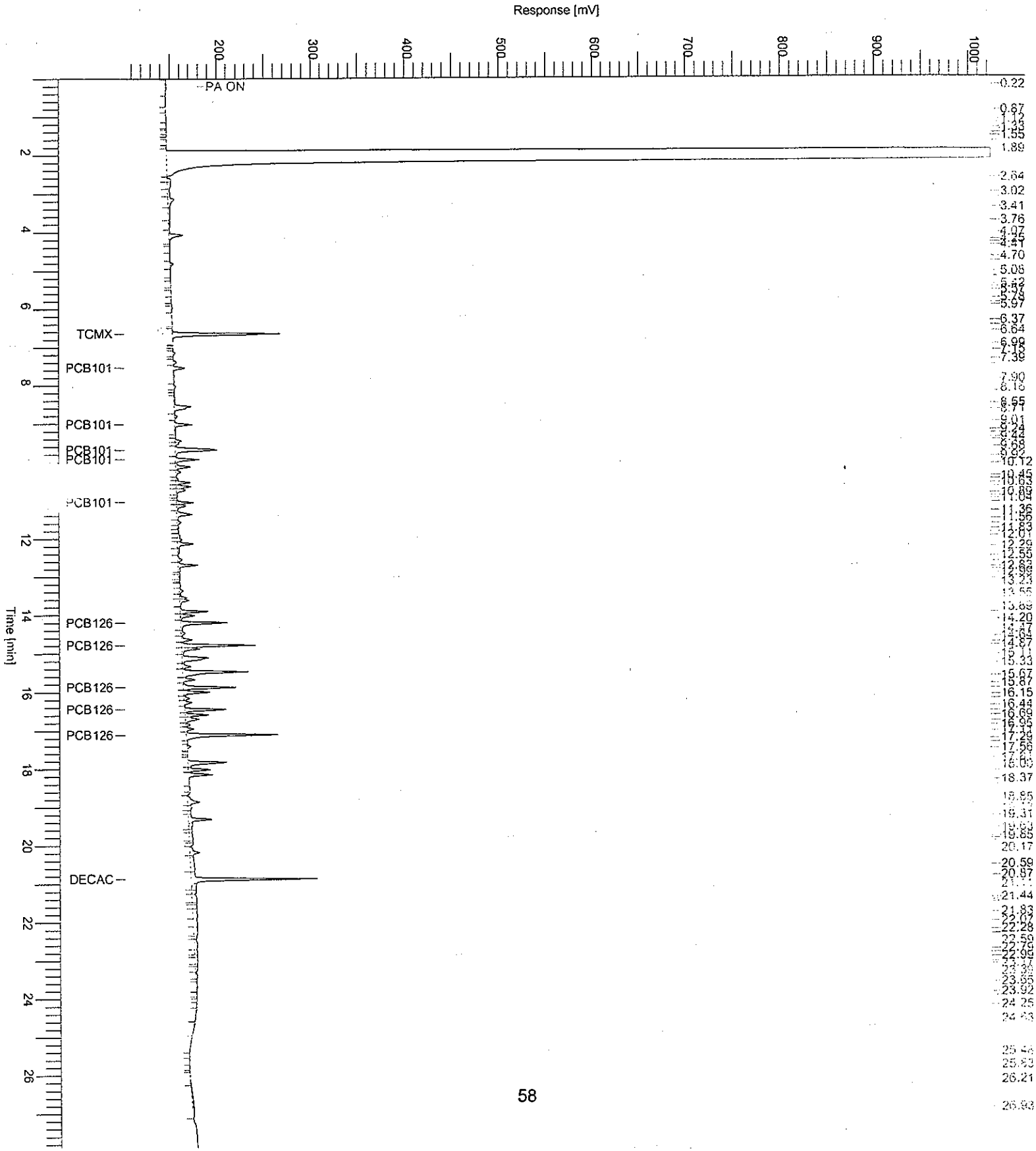
GC 06 Rtx-5

Sample Name : qc260346,93532,ms Sample #: 93532 Page 1 of 1
FileName : G:\gc06\chb\218b037.raw
Date : 8/9/04 10:57:05 AM
Method : Time of Injection: 8/6/04 2:59:57 PM
Start Time : 5.44 min End Time : 21.77 min Low Point : 119.86 mV High Point : 377.16 mV
Plot Offset: 119.86 mV Plot Scale: 257.3 mV



GC 06 Rtx-5

Sample Name : qc260346,93532,ms Sample #: 93532 Page 1 of 1
FileName : G:\gc06\chb\218b037
Date : 8/9/04 9:01:31 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 2:59:57 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 101.93 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 101.93 mV Plot Scale: 922.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc260346,93532,ms
Instrument Name : gc06
Rack/Vial : 1/37
Sample Amount : 1.000000
Cycle : 37

Date : 8/9/04 11:06:26 AM
Data Acquisition Time : 8/6/04 2:59:57 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a037p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	365041.03	41.11	0.8440	1	34.70	6.94
Aroclor-1016	11.182	354338.52	209.23	0.8440	1	176.59	35.32
Aroclor-1260	18.669	677950.49	237.31	0.8440	1	200.29	40.06
Decachlorobiphenyl	22.013	362008.96	34.99	0.8440	1	29.53	5.91
		1759339.00	522.64			441.12	88.22

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.958	43351.71	199.81	0.8440	1	168.65	33.73
PCB1016#2	9.933	86803.40	200.33	0.8440	1	169.08	33.82
PCB1016#3	11.182	105848.23	226.02	0.8440	1	190.77	38.15
PCB1016#4	11.531	63923.92	200.28	0.8440	1	169.04	33.81
PCB1016#5	12.592	54411.25	212.70	0.8440	1	179.53	35.91
		354338.52	1039.14			877.06	175.41

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.662	105952.66	220.93	0.8440	1	186.47	37.29
PCB1260#2	16.345	174958.92	228.50	0.8440	1	192.86	38.57
PCB1260#3	17.308	95201.49	235.75	0.8440	1	198.98	39.80
PCB1260#4	17.918	87941.41	243.37	0.8440	1	205.41	41.08
PCB1260#5	18.669	213896.01	252.71	0.8440	1	213.29	42.66
		677950.49	1181.26			997.01	199.40

PA 81

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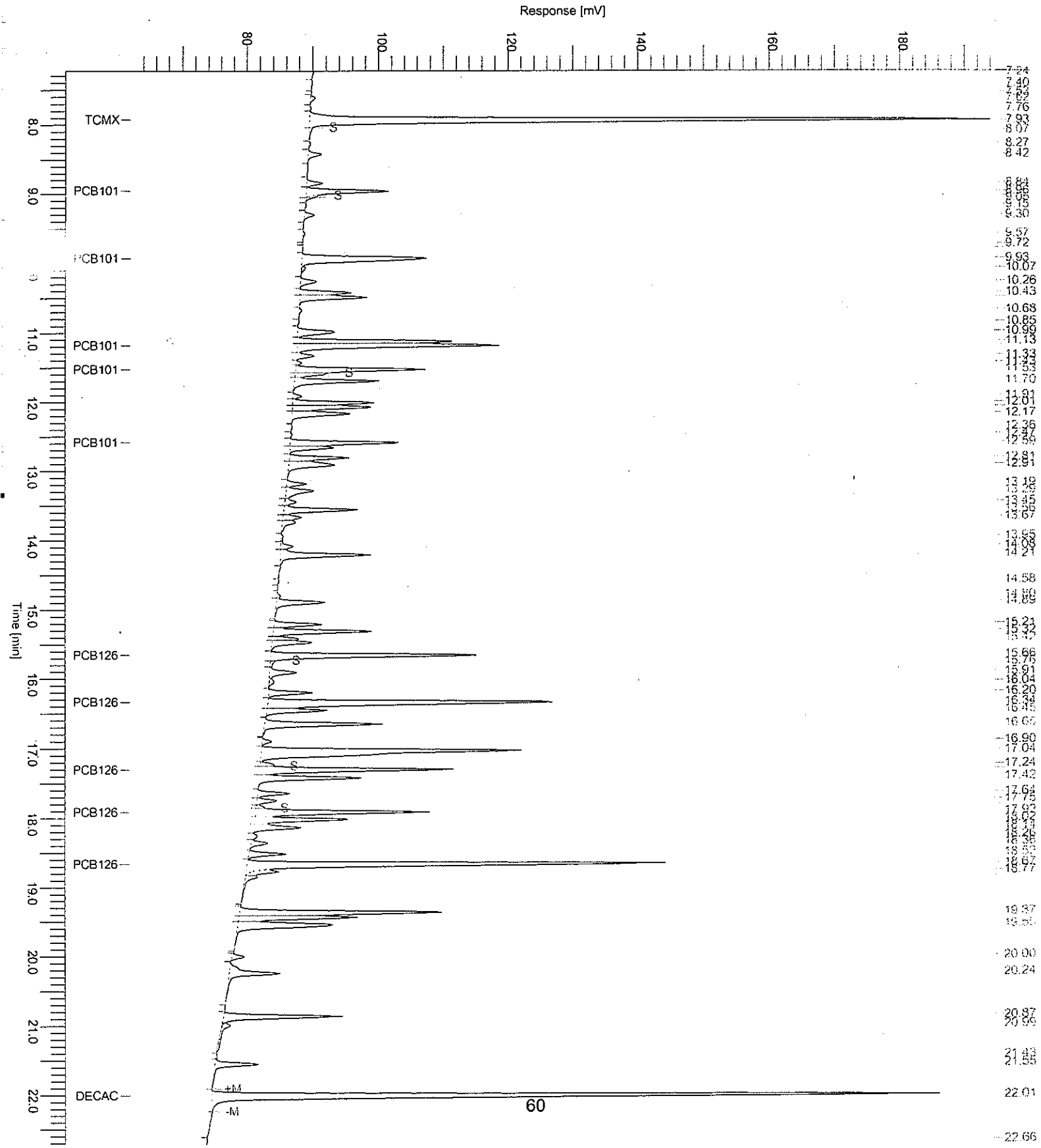
Report stored in ASCII file: G:\gc06\cha\218a037p.TX0

GC 06 Rtx-CLPesticides

Sample Name : qc260346,93532,ms Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a037.raw
Date : 8/9/04 11:06:33 AM
Method : Time of Injection: 8/6/04 2:59:57 PM
Start Time : 7.23 min End Time : 22.72 min Low Point : 62.07 mV High Point : 194.80 mV
Plot Offset: 62.07 mV Plot Scale: 132.7 mV

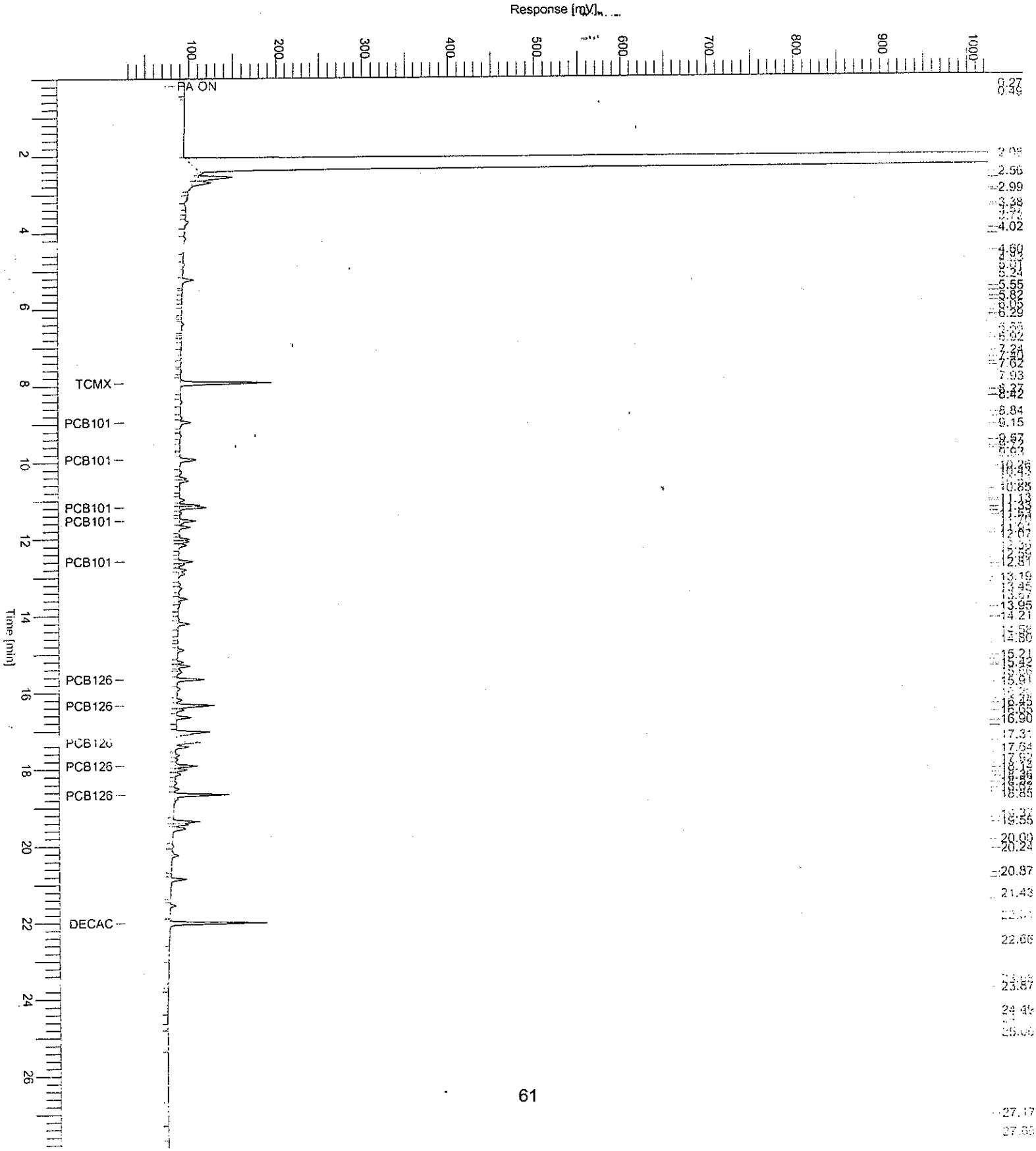


GC 06 Rtx-CLPesticides

Sample Name : qc260346,93532,ms
FileName : G:\gc06\cha\218a037.raw
Date : 8/9/04 9:00:34 AM
Method : gc06fsa1ul
Start Time : 0.00 min End Time : 27.88 min
Scale Factor: 1.0 Plot Offset: 23.76 mV

Sample #: 93532 Page 1 of 1

Time of Injection: 8/6/04 2:59:57 PM
Low Point : 23.76 mV High Point : 1024.00 mV
Plot Scale: 1000.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc260347,93532,msd
Instrument Name : gc06
Rack/Vial : 1/38
Sample Amount : 1.000000
Cycle : 38

Date : 8/9/04 11:01:04 AM
Data Acquisition Time : 8/6/04 3:33:09 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\218b038p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.653	413065.40	39.86	0.8350	1	33.29	6.66
Aroclor-1016	9.680	461690.65	199.35	0.8350	1	166.45	33.29
Aroclor-1260	17.107	937849.11	189.33	0.8350	1	158.09	31.62
Decachlorobiphenyl	20.867	338987.18	27.68	0.8350	1	23.11	4.62
		2151592.34	456.22			380.94	76.19

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	46188.75	202.62	0.8350	1	169.19	33.84
PCB1016#2	9.013	62195.43	209.36	0.8350	1	174.82	34.96
PCB1016#3	9.680	208438.40	195.12	0.8350	1	162.93	32.59
PCB1016#4	9.920	85805.69	199.73	0.8350	1	166.78	33.36
PCB1016#5	11.053	59062.38	201.49	0.8350	1	168.24	33.65
		461690.65	1008.32			841.95	168.39

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.200	149419.15	189.79	0.8350	1	158.48	31.70
PCB1260#2	14.787	226538.29	193.46	0.8350	1	161.54	32.31
PCB1260#3	15.867	151609.49	190.52	0.8350	1	159.08	31.82
PCB1260#4	16.440	119141.49	187.37	0.8350	1	156.46	31.29
PCB1260#5	17.107	291140.68	186.19	0.8350	1	155.47	31.09
		937849.11	947.34			791.03	158.21

PA 8/9/04

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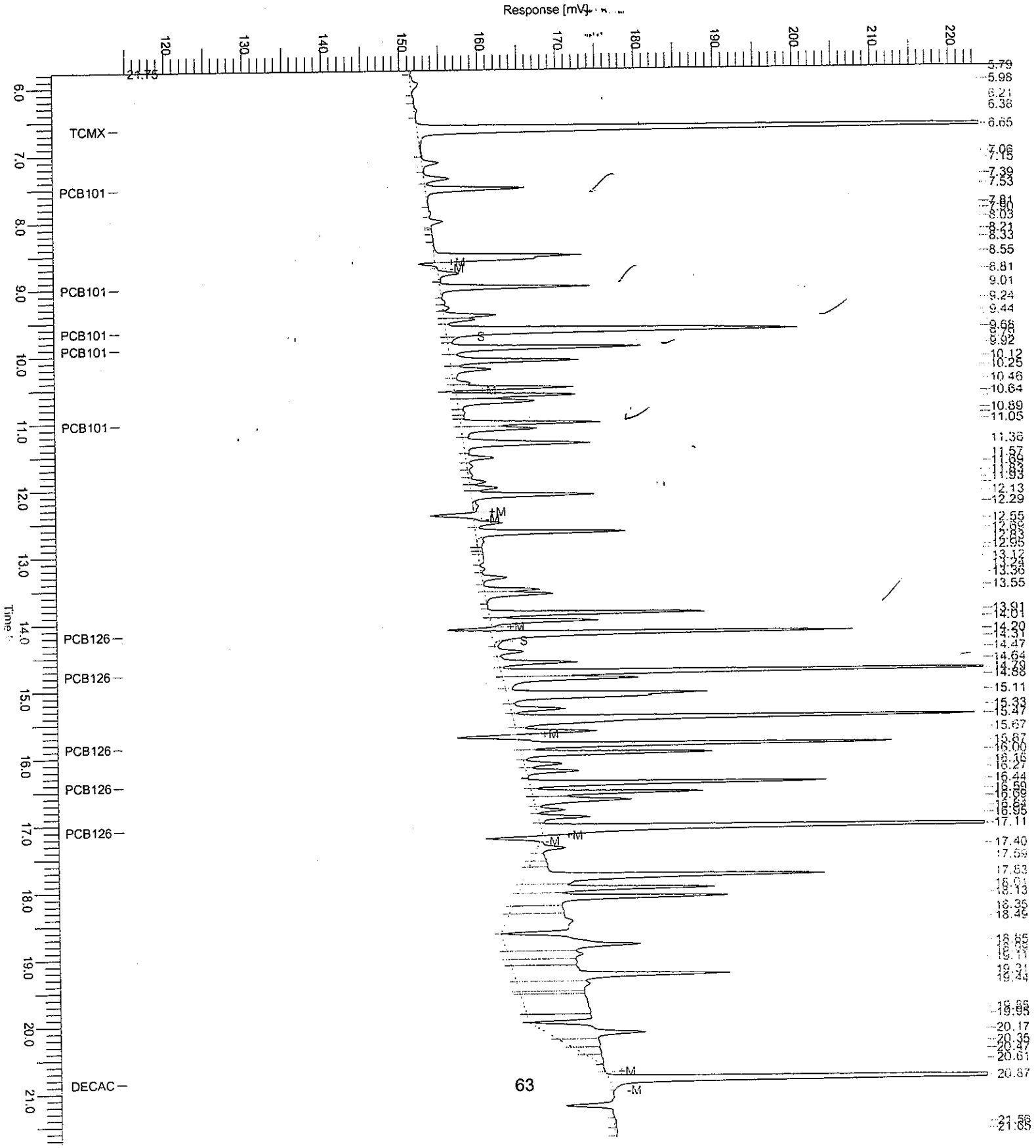
Report stored in ASCII file: G:\gc06\chb\218b038p.TX0

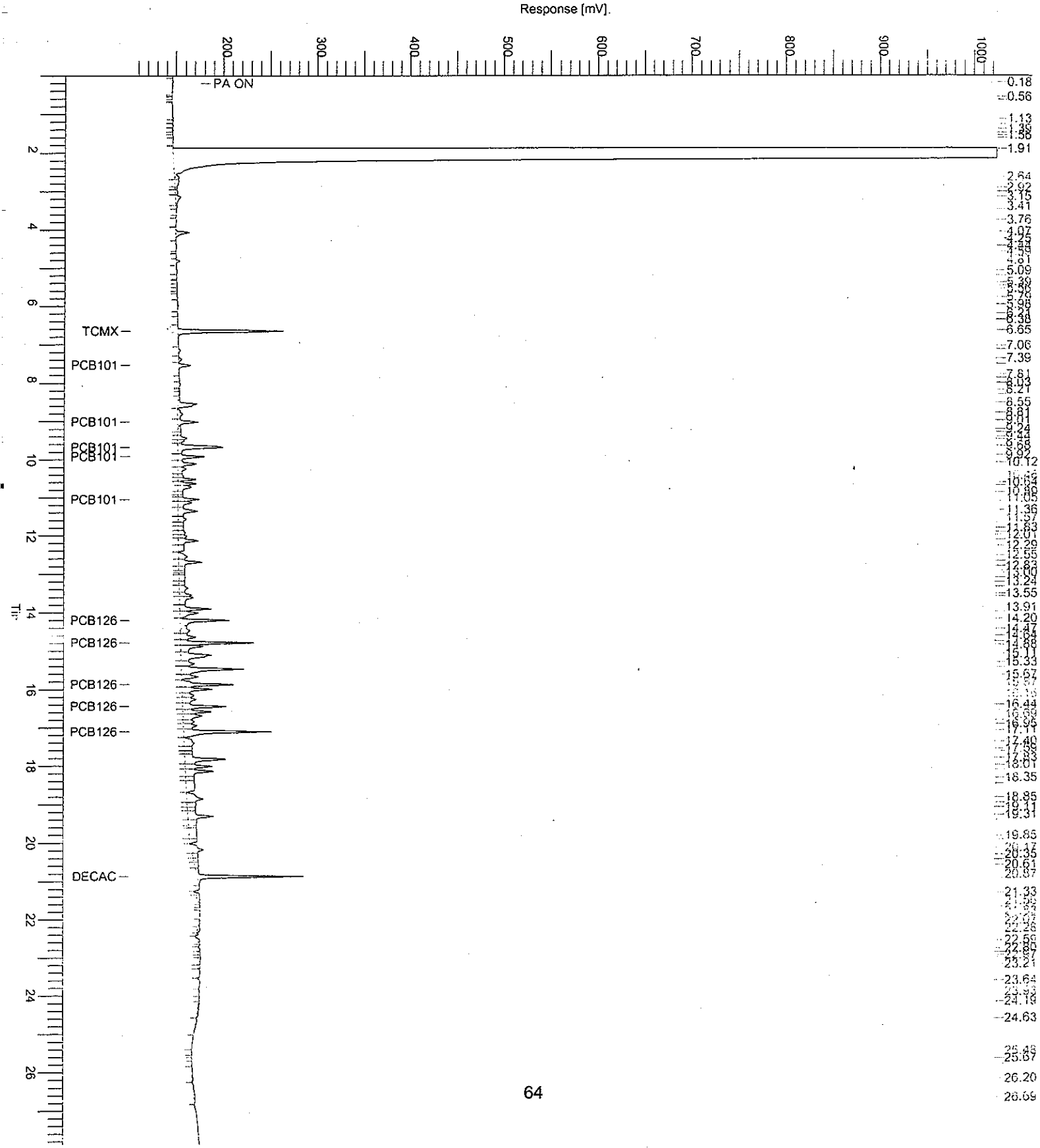
GC 06 Rtx-5

ample Name : qc260347,93532,msd Sample #: 93532 Page 1 of 1
leName : G:\gc06\chb\218b038.raw
ate : 8/9/04 11:01:11 AM
ethod : Time of Injection: 8/6/04 3:33:09 PM
tart Time : 5.77 min End Time : 21.75 min Low Point : 114.12 mV High Point : 223.83 mV
lot Offset: 114.12 mV Plot Scale: 109.7 mV



GC 06 Rtx-5

Sample Name : qc260347,93532,msd Sample #: 93532 Page 1 of 1
FileName : G:\gc06\chb\218b038
Date : 8/9/04 9:01:38 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 3:33:09 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 101.25 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 101.25 mV Plot Scale: 922.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc260347,93532,msd
Instrument Name : gc06
Rack/Vial : 1/38
Sample Amount : 1.000000
Cycle : 38

Date : 8/9/04 11:11:07 AM
Data Acquisition Time : 8/6/04 3:33:09 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a038p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	375153.57	42.25	0.8350	1	35.28	7.06
Aroclor-1016	11.184	368697.81	217.71	0.8350	1	181.78	36.36
Aroclor-1260	18.670	616571.87	215.82	0.8350	1	180.21	36.04
Decachlorobiphenyl	22.013	308922.47	29.86	0.8350	1	24.93	4.99
		1669345.73	505.64			422.21	84.44

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.960	46504.94	214.35	0.8350	1	178.98	35.80
PCB1016#2	9.935	90939.22	209.87	0.8350	1	175.24	35.05
PCB1016#3	11.184	107179.69	228.87	0.8350	1	191.10	38.22
PCB1016#4	11.533	70924.04	222.21	0.8350	1	185.55	37.11
PCB1016#5	12.596	53149.93	207.77	0.8350	1	173.49	34.70
		368697.81	1083.07			904.36	180.87

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.663	103607.65	216.04	0.8350	1	180.39	36.08
PCB1260#2	16.346	165573.89	216.24	0.8350	1	180.56	36.11
PCB1260#3	17.310	89872.13	222.55	0.8350	1	185.83	37.17
PCB1260#4	17.919	78241.04	216.53	0.8350	1	180.80	36.16
PCB1260#5	18.670	179277.16	211.81	0.8350	1	176.86	35.37
		616571.87	1083.17			904.45	180.89

PA 8/9/04

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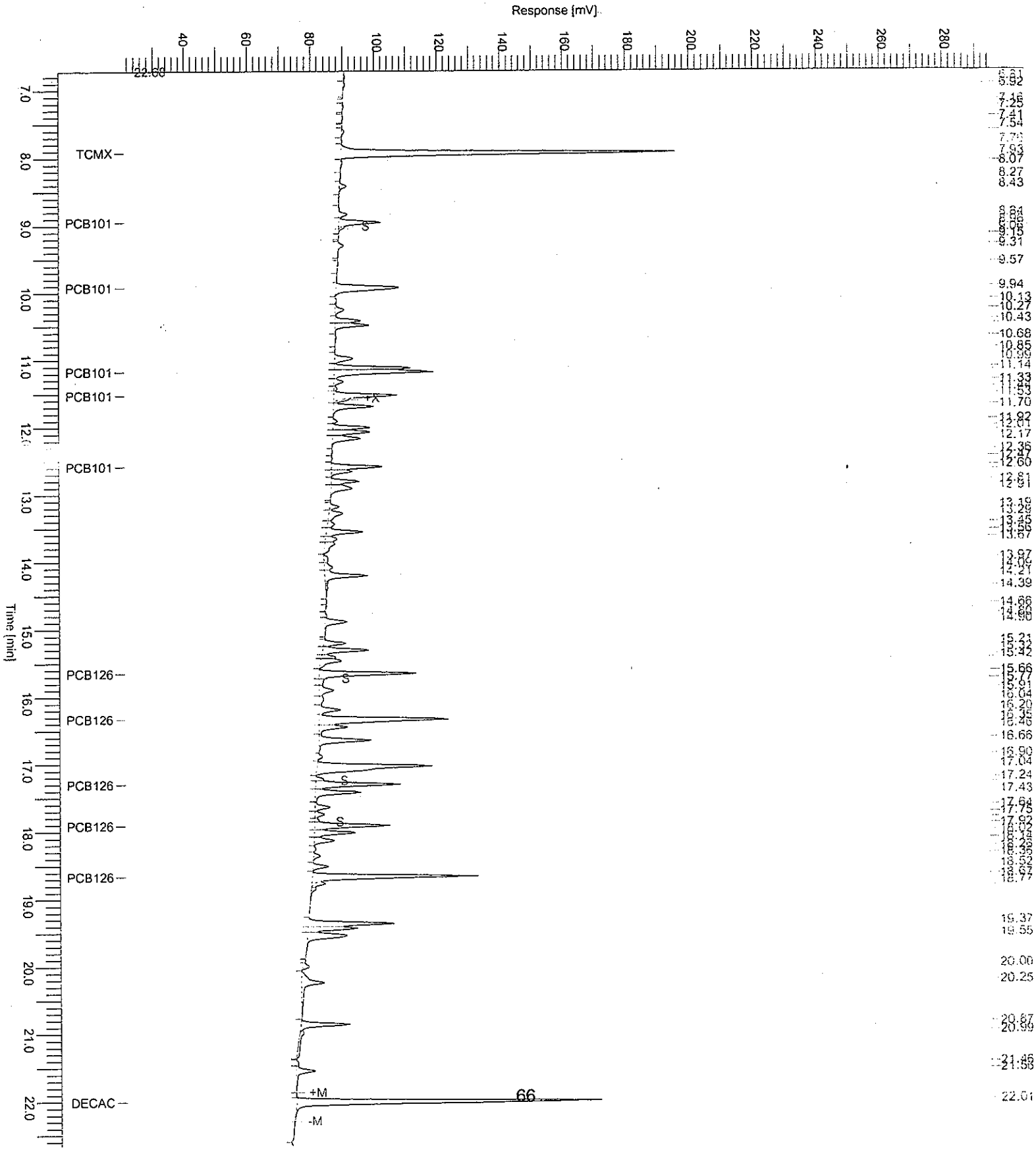
Report stored in ASCII file: G:\gc06\cha\218a038p.TX0

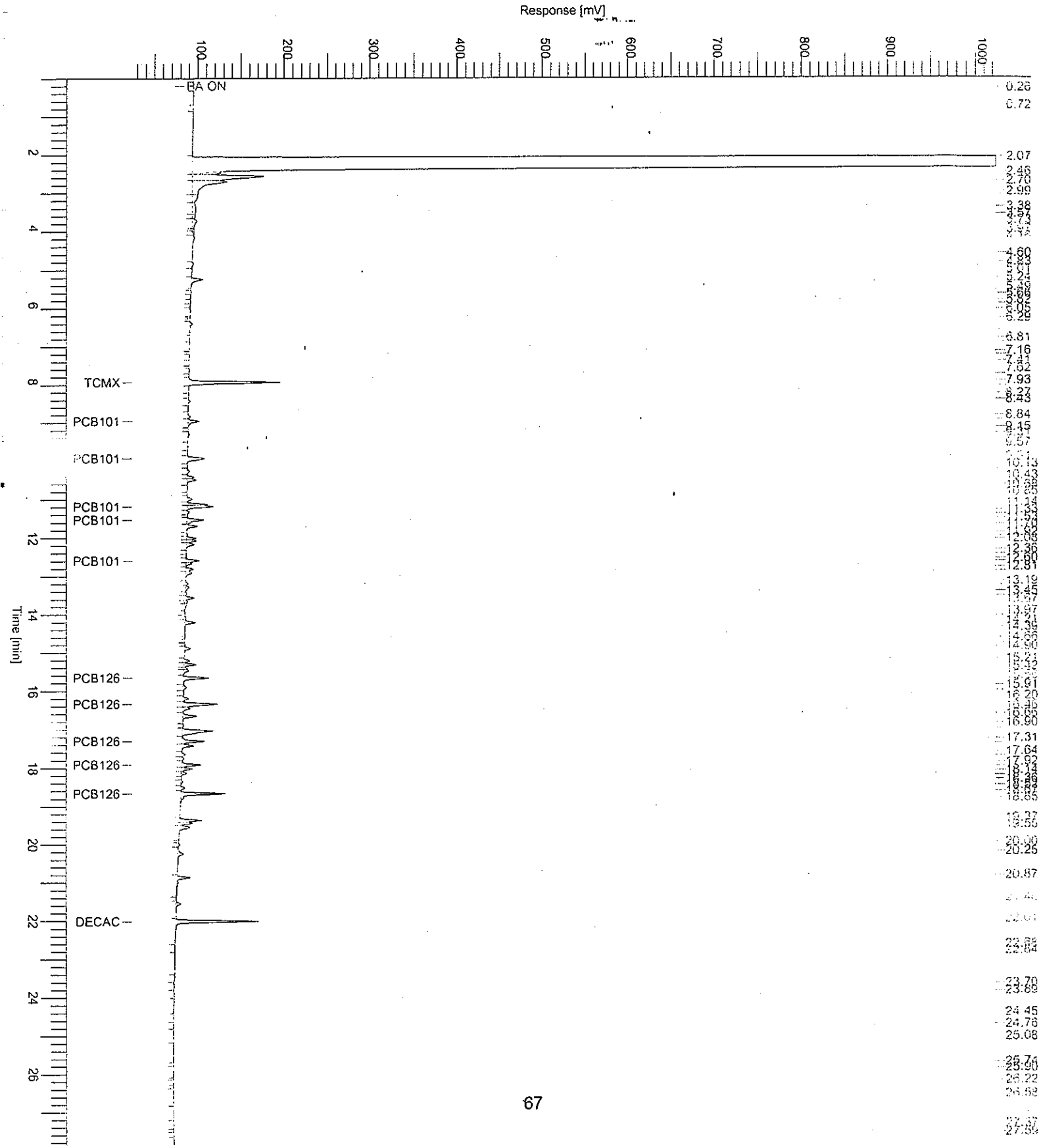
GC 06 Rtx-CLPesticides

Sample Name : qc260347,93532,msd Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a038.raw
Date : 8/9/04 11:11:14 AM
Method : Time of Injection: 8/6/04 3:33:09 PM
Start Time : 6.72 min End Time : 22.67 min Low Point : 21.18 mV High Point : 294.61 mV
Plot Offset: 21.18 mV Plot Scale: 273.4 mV



GC 06 Rtx-CLPesticides

Sample Name : qc260347,93532,msd Sample #: 93532 Page 1 of 1
FileName : G:\gc06\cha\218a038.raw
Date : 8/9/04 9:00:42 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 3:33:09 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 23.68 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 23.68 mV Plot Scale: 1000.3 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By:
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	215_013	204310220013	pcb10_2	02-AUG-2004 21:40	04WS0970
2	215_014	204310220014	pcb25_5	02-AUG-2004 22:13	04WS0960
3	215_015	204310220015	pcb100_20	02-AUG-2004 22:46	04WS0961
4	215_016	204310220016	pcb250_50	02-AUG-2004 23:19	04WS0962
5	215_017	204310220017	pcb500_100	02-AUG-2004 23:52	04WS0963
6	215_018	204310220018	pcb750_150	03-AUG-2004 00:25	04WS0964
7	215_019	204310220019	pcb1K_200	03-AUG-2004 00:59	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	222.19	249.72	232.92	240.39	205.76	174.68	193.06	AVRG	R		0.004609		pg	216.96	12	.99	20	
Aroclor-1016 Peak # 2	A	562.53	501.92	460.15	463.25	377.78	318.34	349.18	AVRG	R		0.002308		pg	433.31	20	.99	20	
Aroclor-1016 Peak # 3	A	484.79	515.26	522.06	533.70	436.50	367.63	418.20	AVRG	R		0.002135		pg	468.31	13	.99	20	
Aroclor-1016 Peak # 4	A	311.49	350.77	348.34	364.70	297.87	262.44	298.62	AVRG	R		0.003133		pg	319.17	11	.99	20	
Aroclor-1016 Peak # 5	A	272.20	286.48	281.40	288.62	237.23	198.13	226.63	AVRG	R		0.003909		pg	255.81	14	.99	20	
Aroclor-1260 Peak # 1	A	534.49	557.25	558.61	543.99	422.20	344.29	396.21	AVRG	R		0.002085		pg	479.58	19	.99	20	
Aroclor-1260 Peak # 2	A	904.42	888.70	849.86	860.45	672.00	546.32	638.04	AVRG	R		0.001306		pg	765.68	19	.99	20	
Aroclor-1260 Peak # 3	A	480.31	419.58	458.34	454.57	367.56	297.31	349.09	AVRG	R		0.002476		pg	403.82	17	.99	20	
Aroclor-1260 Peak # 4	A	363.33	365.28	397.28	433.25	344.26	284.33	341.69	AVRG	R		0.002767		pg	361.35	13	.99	20	
Aroclor-1260 Peak # 5	A	868.22	928.30	936.04	985.95	789.30	648.83	768.31	AVRG	R		0.001181		pg	846.42	14	.99	20	
TCMX	A	9152.2	9977.5	9263.6	9902.9	8412.0	7286.0	8156.7	AVRG	R		1.126E-4		pg	8878.7	11	.99	20	
Decachlorobiphenyl	A	10877	10709	9872.1	12832	7437.8			AVRG	R		9.666E-5		pg	10346	19	.99	20	
Aroclor-1016 Peak # 1	B	242.83	242.17	239.76	258.59	221.85	183.59	206.89	AVRG	R		0.004387		pg	227.95	11	.99	20	
Aroclor-1016 Peak # 2	B	301.07	317.39	329.13	342.65	279.81	238.92	270.55	AVRG	R		0.003366		pg	297.07	12	.99	20	
Aroclor-1016 Peak # 3	B	1225.7	1232.9	1179.3	1198.8	944.96	806.07	890.17	AVRG	R		9.361E-4		pg	1068.3	17	.99	20	
Aroclor-1016 Peak # 4	B	465.77	502.61	466.00	483.84	385.83	333.37	369.79	AVRG	R		0.002328		pg	429.60	15	.99	20	
Aroclor-1016 Peak # 5	B	322.46	326.55	314.99	326.70	268.97	229.90	262.36	AVRG	R		0.003411		pg	293.13	13	.99	20	
Aroclor-1260 Peak # 1	B	804.92	843.20	864.53	921.86	729.59	623.19	723.59	AVRG	R		0.001270		pg	787.27	13	.99	20	
Aroclor-1260 Peak # 2	B	1254.5	1305.5	1297.8	1345.0	1066.2	886.63	1041.3	AVRG	R		8.540E-4		pg	1171.0	15	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CW 8/3/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By:
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	836.14	872.35	845.26	901.05	740.38	622.22	753.05	AVRG	R		0.001257		pg	795.78	12	.99	20	
Aroclor-1260 Peak # 4	B	708.28	658.49	677.16	709.83	592.01	499.26	605.88	AVRG	R		0.001573		pg	635.85	12	.99	20	
Aroclor-1260 Peak # 5	B	1689.9	1627.7	1611.2	1813.1	1468.9	1232.9	1501.8	AVRG	R		6.395E-4		pg	1563.6	12	.99	20	
TCMX	B	10333	11533	11102	11785	9884.1	8500.3	9395.7	AVRG	R		9.651E-5		pg	10362	12	.99	20	
Decachlorobiphenyl	B	12402	11918	11586	15972	9357.4			AVRG	R		8.165E-5		pg	12247	19	.99	20	

CW 8/3/04

69

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Turbochrom Method File G:\gc06\files\1260a215.mth
Printed by : analyst on: 8/3/04 1:46:39 PM
Created by : analyst on: 8/3/04 9:28:46 AM
Edited by : analyst on: 8/3/04 1:46:35 PM
Number of Times Edited : 6
Number of Times Calibrated : 174
Description: gc06

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

DM 8/3/04

CW 8/3/04

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 7.927 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	185272.00	50609.41	----------	----------	1
4	50.0000	495145.55	138754.95	----------	----------	1
5	100.0000	841200.20	226721.44	----------	----------	1
6	150.0000	1092893.25	285317.06	----------	----------	1
7	200.0000	1631332.56	424942.65	----------	----------	1
1	2.0000	18304.33	5234.21	----------	----------	1
2	5.0000	49887.54	13418.39	----------	----------	1

Average Calibration Factor = 8878.686176 (%RSD = 11.03)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 8.951 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2221.94	629.18	----------	----------	1
2	25.0000	6242.97	1688.62	----------	----------	1
3	100.0000	23292.46	6442.80	----------	----------	1
4	250.0000	60096.61	16563.17	----------	----------	1
5	500.0000	102881.91	27042.49	----------	----------	1
6	750.0000	131010.09	33647.11	----------	----------	1
7	1000.0000	193058.05	49469.53	----------	----------	1

Average Calibration Factor = 216.960796 (%RSD = 12.47)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 9.928 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5625.34	1119.34	----------	----------	1
2	25.0000	12547.94	2776.12	----------	----------	1
3	100.0000	46015.06	10336.96	----------	----------	1
4	250.0000	115813.11	25772.71	----------	----------	1
5	500.0000	188890.28	41470.50	----------	----------	1
6	750.0000	238757.22	51137.17	----------	----------	1
7	1000.0000	349182.99	74347.51	----------	----------	1

Average Calibration Factor = 433.308746 (%RSD = 20.30)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 11.178 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4847.93	1448.26	----------	----------	1
2	25.0000	12881.58	3842.28	----------	----------	1
3	100.0000	52205.94	15133.91	----------	----------	1
4	250.0000	133424.95	38362.39	----------	----------	1
5	500.0000	218251.16	62774.21	----------	----------	1
6	750.0000	275724.20	79094.14	----------	----------	1
7	1000.0000	418202.75	119351.68	----------	----------	1

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Average Calibration Factor = 468.307534 (%RSD = 13.31)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18532.02	4949.71	----------	----------	1
2	25.0000	47603.56	12960.21	----------	----------	1
3	100.0000	184487.21	50357.36	----------	----------	1
4	250.0000	472663.53	127873.77	----------	----------	1
5	500.0000	777569.24	207361.82	----------	----------	1
6	750.0000	990915.87	258723.96	----------	----------	1
7	1000.0000	1485695.02	388412.30	----------	----------	1

Average Calibration Factor = 1693.560786 (%RSD = 13.90)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 11.527 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3114.87	930.05	----------	----------	1
2	25.0000	8769.14	2463.95	----------	----------	1
3	100.0000	34834.22	9823.09	----------	----------	1
4	250.0000	91174.39	25152.30	----------	----------	1
5	500.0000	148932.91	40622.10	----------	----------	1
6	750.0000	196829.44	50727.63	----------	----------	1
7	1000.0000	298617.84	78293.99	----------	----------	1

Average Calibration Factor = 319.173644 (%RSD = 11.49)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 12.588 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2721.95	822.87	----------	----------	1
2	25.0000	7161.92	2189.25	----------	----------	1
3	100.0000	28139.54	8620.61	----------	----------	1
4	250.0000	72154.46	22023.21	----------	----------	1
5	500.0000	118612.98	35452.52	----------	----------	1
6	750.0000	148594.92	44117.91	----------	----------	1
7	1000.0000	226633.39	66949.59	----------	----------	1

Average Calibration Factor = 255.810066 (%RSD = 13.79)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 15.656 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5344.94	1699.48	----------	----------	1
2	25.0000	13931.26	4309.36	----------	----------	1
3	100.0000	55861.16	16531.22	----------	----------	1
4	250.0000	135998.74	40895.29	----------	----------	1
5	500.0000	211097.54	63561.58	----------	----------	1
6	750.0000	258220.05	77274.14	----------	----------	1
7	1000.0000	396214.56	122969.88	----------	----------	1

Average Calibration Factor = 479.579088 (%RSD = 18.65)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 16.336 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	9044.16	2225.43	----------	----------	1
2	25.0000	22217.54	5631.00	----------	----------	1
3	100.0000	84986.09	21628.89	----------	----------	1
4	250.0000	215111.78	54302.61	----------	----------	1
5	500.0000	335998.37	84030.59	----------	----------	1
6	750.0000	409737.15	101645.23	----------	----------	1
7	1000.0000	638041.37	159561.39	----------	----------	1

Average Calibration Factor = 765.682888 (%RSD = 18.75)

PCB1260#3

Component Type : Single Peak Component
Retention Time : 17.305 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4803.08	1377.70	----------	----------	1
2	25.0000	10489.45	3366.08	----------	----------	1
3	100.0000	45833.81	13557.78	----------	----------	1
4	250.0000	113643.59	34320.81	----------	----------	1
5	500.0000	183779.29	54794.39	----------	----------	1
6	750.0000	222979.16	66930.86	----------	----------	1
7	1000.0000	349092.79	108667.08	----------	----------	1

Average Calibration Factor = 403.822156 (%RSD = 16.70)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 17.915 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3633.27	1156.61	----------	----------	1
2	25.0000	9132.04	2896.18	----------	----------	1
3	100.0000	39727.99	11845.35	----------	----------	1
4	250.0000	108313.58	31626.79	----------	----------	1
5	500.0000	172129.50	50862.09	----------	----------	1
6	750.0000	213249.29	63017.17	----------	----------	1
7	1000.0000	341692.14	102633.89	----------	----------	1

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Average Calibration Factor = 361.346600 (%RSD = 12.93)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 18.665 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8682.16	2506.06	----------	----------	1
2	25.0000	23207.62	6852.07	----------	----------	1
3	100.0000	93604.20	27413.80	----------	----------	1
4	250.0000	246486.59	73100.24	----------	----------	1
5	500.0000	394648.84	121966.96	----------	----------	1
6	750.0000	486625.00	151399.51	----------	----------	1
7	1000.0000	768310.01	237897.51	----------	----------	1

Average Calibration Factor = 846.421498 (%RSD = 13.90)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	31507.61	8965.28	----------	----------	1
2	25.0000	78977.90	23054.69	----------	----------	1
3	100.0000	320013.26	90977.04	----------	----------	1
4	250.0000	819554.28	234245.73	----------	----------	1
5	500.0000	1297653.54	375215.62	----------	----------	1
6	750.0000	1590810.64	460266.91	----------	----------	1
7	1000.0000	2493350.87	731729.75	----------	----------	1

Average Calibration Factor = 2856.852230 (%RSD = 15.75)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.011 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	197442.82	58458.79	----------	----------	1
4	50.0000	641586.53	188518.60	----------	----------	1
5	100.0000	743784.68	221318.75	----------	----------	1
1	2.0000	21753.16	6640.71	----------	----------	1
2	5.0000	53546.93	16122.12	----------	----------	1

Average Calibration Factor = 10345.536995 (%RSD = 18.89)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185272.00	50609.41	20.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
495145.55	138754.95	50.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
841200.20	226721.44	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1092893.25	285317.06	150.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1631332.56	424942.65	200.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18304.33	5234.21	2.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49887.54	13418.39	5.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2221.94	629.18	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6242.97	1688.62	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23292.46	6442.80	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60096.61	16563.17	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102881.91	27042.49	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
131010.09	33647.11	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
193058.05	49469.53	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5625.34	1119.34	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12547.94	2776.12	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46015.06	10336.96	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115813.11	25772.71	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188890.28	41470.50	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
238757.22	51137.17	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
349182.99	74347.51	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4847.93	1448.26	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12881.58	3842.28	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52205.94	15133.91	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133424.95	38362.39	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
218251.16	62774.21	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
275724.20	79094.14	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
418202.75	119351.68	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : Aroclor-1016

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18532.02	4949.71	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47603.56	12960.21	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184487.21	50357.36	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
472663.53	127873.77	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
777569.24	207361.82	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
990915.87	258723.96	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1485695.02	388412.30	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3114.87	930.05	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8769.14	2463.95	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34834.22	9823.09	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91174.39	25152.30	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
148932.91	40622.10	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
196829.44	50727.63	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
298617.84	78293.99	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2721.95	822.87	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7161.92	2189.25	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28139.54	8620.61	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72154.46	22023.21	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118612.98	35452.52	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
148594.92	44117.91	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226633.39	66949.59	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5344.94	1699.48	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13931.26	4309.36	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55861.16	16531.22	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
135998.74	40895.29	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
211097.54	63561.58	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
258220.05	77274.14	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
396214.56	122969.88	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1260#2
Level : 1

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9044.16	2225.43	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22217.54	5631.00	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84986.09	21628.89	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
215111.78	54302.61	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
335998.37	84030.59	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
409737.15	101645.23	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
638041.37	159561.39	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4803.08	1377.70	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10489.45	3366.08	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45833.81	13557.78	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
113643.59	34320.81	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
183779.29	54794.39	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
222979.16	66930.86	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
349092.79	108667.08	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1260#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3633.27	1156.61	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9132.04	2896.18	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39727.99	11845.35	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
108313.58	31626.79	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
172129.50	50862.09	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
213249.29	63017.17	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
341692.14	102633.89	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : PCB1260#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8682.16	2506.06	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23207.62	6852.07	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93604.20	27413.80	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
246486.59	73100.24	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
394648.84	121966.96	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
486625.00	151399.51	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
768310.01	237897.51	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31507.61	8965.28	10.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78977.90	23054.69	25.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
320013.26	90977.04	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
819554.28	234245.73	250.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1297653.54	375215.62	500.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1590810.64	460266.91	750.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2493350.87	731729.75	1000.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a019p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
197442.82	58458.79	20.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a015p.rst

Level : 4

8/3/04 1:46:39 PM Method: G:\gc06\files\1260a215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
641586.53	188518.60	50.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
743784.68	221318.75	100.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a017p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21753.16	6640.71	2.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53546.93	16122.12	5.0000	----------	----------	8/3/04	1:46:23 PM	G:\gc06\cha\215a014p.rst

Turbochrom Method File G:\gc06\files\1260b215.mth
Printed by : analyst on: 8/3/04 1:47:25 PM
Created by : analyst on: 8/3/04 9:30:54 AM
Edited by : analyst on: 8/3/04 10:07:29 AM
Number of Times Edited : 7
Number of Times Calibrated : 172
Description: gc 06

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

AB 8/3/04

CW 8/3/04

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 6.640 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	222041.07	63354.01	----------	----------	1
4	50.0000	589265.41	167170.12	----------	----------	1
5	100.0000	988412.23	274669.83	----------	----------	1
1	2.0000	20665.02	6133.50	----------	----------	1
2	5.0000	57666.60	16442.11	----------	----------	1
6	150.0000	1275052.07	339902.10	----------	----------	1
7	200.0000	1879132.35	499600.53	----------	----------	1

Average Calibration Factor = 10361.903225 (%RSD = 11.54)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 7.533 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2428.28	650.49	----------	----------	1
2	25.0000	6054.14	1717.28	----------	----------	1
3	100.0000	23976.46	6745.83	----------	----------	1
4	250.0000	64646.54	18056.05	----------	----------	1
5	500.0000	110926.27	30585.16	----------	----------	1
6	750.0000	137689.92	37957.43	----------	----------	1
7	1000.0000	206891.92	56321.15	----------	----------	1

Average Calibration Factor = 227.953643 (%RSD = 11.26)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 9.012 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3010.73	923.26	----------	----------	1
2	25.0000	7934.76	2485.02	----------	----------	1
3	100.0000	32912.76	10004.76	----------	----------	1
4	250.0000	85663.31	26502.86	----------	----------	1
5	500.0000	139905.13	44308.26	----------	----------	1
6	750.0000	179189.30	55665.83	----------	----------	1
7	1000.0000	270545.52	83554.96	----------	----------	1

Average Calibration Factor = 297.074128 (%RSD = 12.23)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 9.666 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	12256.64	2506.12	----------	----------	1
2	25.0000	30822.75	6504.29	----------	----------	1
3	100.0000	117928.00	25501.79	----------	----------	1
4	250.0000	299696.12	64570.99	----------	----------	1
5	500.0000	472478.44	101006.73	----------	----------	1
6	750.0000	604549.25	125677.93	----------	----------	1
7	1000.0000	890168.28	186664.12	----------	----------	1

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Average Calibration Factor = 1068.261357 (%RSD = 16.96)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	25577.98	6341.27	----------	----------	1
2	25.0000	65540.52	16725.81	----------	----------	1
3	100.0000	252915.40	66545.23	----------	----------	1
4	250.0000	652639.81	171997.49	----------	----------	1
5	500.0000	1050711.66	276674.98	----------	----------	1
6	750.0000	1343880.57	345669.43	----------	----------	1
7	1000.0000	1999756.96	517140.93	----------	----------	1

Average Calibration Factor = 2316.021919 (%RSD = 14.80)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 9.920 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4657.72	1295.78	----------	----------	1
2	25.0000	12565.15	3513.11	----------	----------	1
3	100.0000	46599.63	14069.93	----------	----------	1
4	250.0000	120959.65	36341.28	----------	----------	1
5	500.0000	192916.11	58499.65	----------	----------	1
6	750.0000	250027.67	73963.14	----------	----------	1
7	1000.0000	369788.47	110671.07	----------	----------	1

Average Calibration Factor = 429.600508 (%RSD = 15.22)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 11.041 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3224.62	965.62	----------	----------	1
2	25.0000	8163.71	2506.10	----------	----------	1
3	100.0000	31498.55	10222.91	----------	----------	1
4	250.0000	81674.19	26526.30	----------	----------	1
5	500.0000	134485.71	42275.19	----------	----------	1
6	750.0000	172424.43	52405.10	----------	----------	1
7	1000.0000	262362.78	79929.63	----------	----------	1

Average Calibration Factor = 293.132284 (%RSD = 13.29)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.189 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8049.23	2615.72	----------	----------	1
2	25.0000	21080.07	6679.00	----------	----------	1
3	100.0000	86452.50	26926.47	----------	----------	1
4	250.0000	230464.46	69846.17	----------	----------	1
5	500.0000	364794.72	107013.02	----------	----------	1
6	750.0000	467394.27	130666.65	----------	----------	1
7	1000.0000	723588.84	203091.04	----------	----------	1

Average Calibration Factor = 787.268511 (%RSD = 12.89)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 14.774 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	12545.02	3913.99	----------	----------	1
2	25.0000	32637.51	10342.68	----------	----------	1
3	100.0000	129782.28	42099.48	----------	----------	1
4	250.0000	336247.08	110498.68	----------	----------	1
5	500.0000	533085.61	170716.31	----------	----------	1
6	750.0000	664975.89	208299.18	----------	----------	1
7	1000.0000	1041327.26	332929.32	----------	----------	1

Average Calibration Factor = 1170.992291 (%RSD = 14.79)

PCB1260#3

Component Type : Single Peak Component
Retention Time : 15.867 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8361.43	2660.45	----------	----------	1
2	25.0000	21808.64	6975.72	----------	----------	1
3	100.0000	84525.91	28700.17	----------	----------	1
4	250.0000	225262.31	77107.49	----------	----------	1
5	500.0000	370188.68	125679.22	----------	----------	1
6	750.0000	466661.26	156030.26	----------	----------	1
7	1000.0000	753048.00	251206.21	----------	----------	1

Average Calibration Factor = 795.776773 (%RSD = 12.14)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 16.440 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	7082.84	2186.60	----------	----------	1
2	25.0000	16462.37	5290.27	----------	----------	1
3	100.0000	67716.14	22779.36	----------	----------	1
4	250.0000	177457.88	61203.22	----------	----------	1
5	500.0000	296004.87	100082.49	----------	----------	1
6	750.0000	374448.24	123410.32	----------	----------	1
7	1000.0000	605882.81	201377.39	----------	----------	1

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Average Calibration Factor = 635.846950 (%RSD = 11.91)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	52937.04	16020.52	----------	----------	1
2	25.0000	132681.06	41046.20	----------	----------	1
3	100.0000	529596.95	169445.48	----------	----------	1
4	250.0000	1422708.59	456665.37	----------	----------	1
5	500.0000	2298528.45	724410.10	----------	----------	1
6	750.0000	2898141.34	891053.95	----------	----------	1
7	1000.0000	4625650.30	1.44e+06	----------	----------	1

Average Calibration Factor = 4953.520915 (%RSD = 12.56)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 17.094 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	16898.52	4643.76	----------	----------	1
2	25.0000	40692.48	11758.53	----------	----------	1
3	100.0000	161120.12	48939.98	----------	----------	1
4	250.0000	453276.85	138009.82	----------	----------	1
5	500.0000	734454.57	220919.05	----------	----------	1
6	750.0000	924661.68	272647.53	----------	----------	1
7	1000.0000	1501803.39	452055.22	----------	----------	1

Average Calibration Factor = 1563.636392 (%RSD = 11.87)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.867 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	231714.30	75836.53	----------	----------	1
4	50.0000	798609.93	253247.46	----------	----------	1
5	100.0000	935736.87	301485.68	----------	----------	1
1	2.0000	24803.79	8010.17	----------	----------	1
2	5.0000	59590.34	19639.69	----------	----------	1

Average Calibration Factor = 12247.048987 (%RSD = 19.49)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
222041.07	63354.01	20.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
589265.41	167170.12	50.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
988412.23	274669.83	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20665.02	6133.50	2.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57666.60	16442.11	5.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1275052.07	339902.10	150.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1879132.35	499600.53	200.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2428.28	650.49	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6054.14	1717.28	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23976.46	6745.83	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64646.54	18056.05	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
110926.27	30585.16	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137689.92	37957.43	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
206891.92	56321.15	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3010.73	923.26	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7934.76	2485.02	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32912.76	10004.76	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85663.31	26502.86	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
139905.13	44308.26	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
179189.30	55665.83	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
270545.52	83554.96	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12256.64	2506.12	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30822.75	6504.29	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117928.00	25501.79	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299696.12	64570.99	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
472478.44	101006.73	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
604549.25	125677.93	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
890168.28	186664.12	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : Aroclor-1016

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25577.98	6341.27	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65540.52	16725.81	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
252915.40	66545.23	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
652639.81	171997.49	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1050711.66	276674.98	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1343880.57	345669.43	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1999756.96	517140.93	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4657.72	1295.78	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12565.15	3513.11	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46599.63	14069.93	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
120959.65	36341.28	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
192916.11	58499.65	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
250027.67	73963.14	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
369788.47	110671.07	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3224.62	965.62	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8163.71	2506.10	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31498.55	10222.91	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81674.19	26526.30	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
134485.71	42275.19	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
172424.43	52405.10	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
262362.78	79929.63	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8049.23	2615.72	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21080.07	6679.00	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86452.50	26926.47	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
230464.46	69846.17	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
364794.72	107013.02	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
467394.27	130666.65	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
723588.84	203091.04	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1260#2
Level : 1

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12545.02	3913.99	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32637.51	10342.68	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129782.28	42099.48	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
336247.08	110498.68	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
533085.61	170716.31	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
664975.89	208299.18	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1041327.26	332929.32	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8361.43	2660.45	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21808.64	6975.72	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84525.91	28700.17	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
225262.31	77107.49	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
370188.68	125679.22	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
466661.26	156030.26	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
753048.00	251206.21	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1260#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7082.84	2186.60	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16462.37	5290.27	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67716.14	22779.36	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
177457.88	61203.22	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
296004.87	100082.49	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
374448.24	123410.32	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
605882.81	201377.39	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52937.04	16020.52	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132681.06	41046.20	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
529596.95	169445.48	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1422708.59	456665.37	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2298528.45	724410.10	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2898141.34	891053.95	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4625650.30	1.44066e+006	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : PCB1260#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16898.52	4643.76	10.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40692.48	11758.53	25.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
161120.12	48939.98	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
453276.85	138009.82	250.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
734454.57	220919.05	500.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
924661.68	272647.53	750.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b018p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1501803.39	452055.22	1000.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b019p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
231714.30	75836.53	20.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b015p.rst

Level : 4

8/3/04 1:47:25 PM Method: G:\gc06\files\1260b215.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
798609.93	253247.46	50.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b016p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
935736.87	301485.68	100.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b017p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24803.79	8010.17	2.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59590.34	19639.69	5.0000	----------	----------	8/3/04	10:03:15 AM	G:\gc06\chb\215b014p.rst

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0970,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 8/3/04 10:13:59 AM
Data Acquisition Time : 8/2/04 9:40:07 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a013p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.920	18304.33	2.06	1.0000	1	2.06	0.41
Aroclor-1016	11.173	18532.02	11.37	1.0000	1	11.37	2.27
Aroclor-1260	18.664	31507.61	11.08	1.0000	1	11.08	2.22
Decachlorobiphenyl	22.006	21753.16	2.37	1.0000	1	2.37	0.47
		90097.12	26.88			26.88	5.38

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.948	2221.94	10.63	1.0000	1	10.63	2.13
PCB1016#2	9.925	5625.34	13.38	1.0000	1	13.38	2.68
PCB1016#3	11.173	4847.93	10.63	1.0000	1	10.63	2.13
PCB1016#4	11.523	3114.87	10.86	1.0000	1	10.86	2.17
PCB1016#5	12.586	2721.95	10.58	1.0000	1	10.58	2.12
		18532.02	56.09			56.09	11.22

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.655	5344.94	10.93	1.0000	1	10.93	2.19
PCB1260#2	16.338	9044.16	11.79	1.0000	1	11.79	2.36
PCB1260#3	17.303	4803.08	12.33	1.0000	1	12.33	2.47
PCB1260#4	17.911	3633.27	9.63	1.0000	1	9.63	1.93
PCB1260#5	18.664	8682.16	10.59	1.0000	1	10.59	2.12
		31507.61	55.27			55.27	11.05

8/3/04

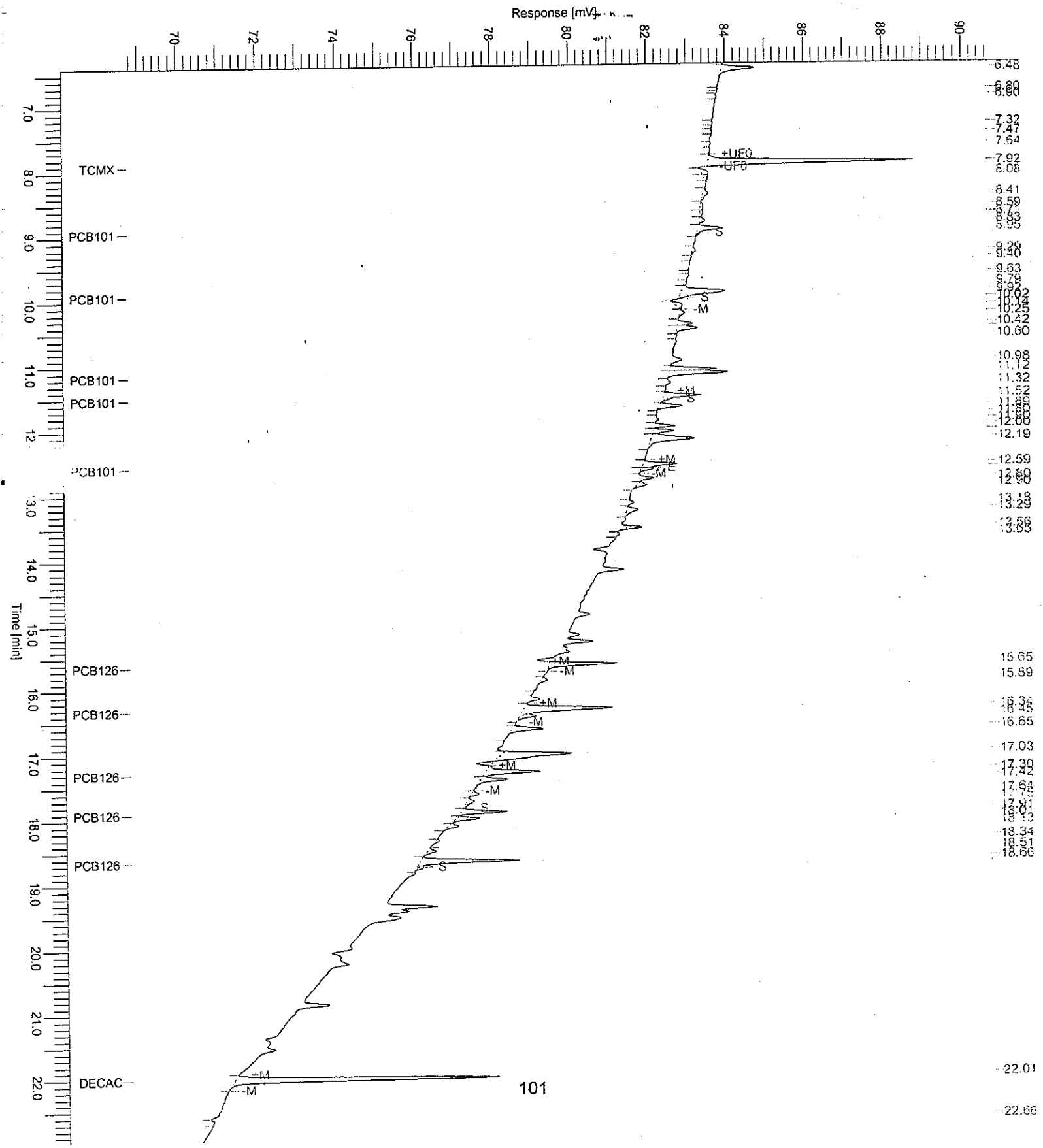
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a013p.TX0

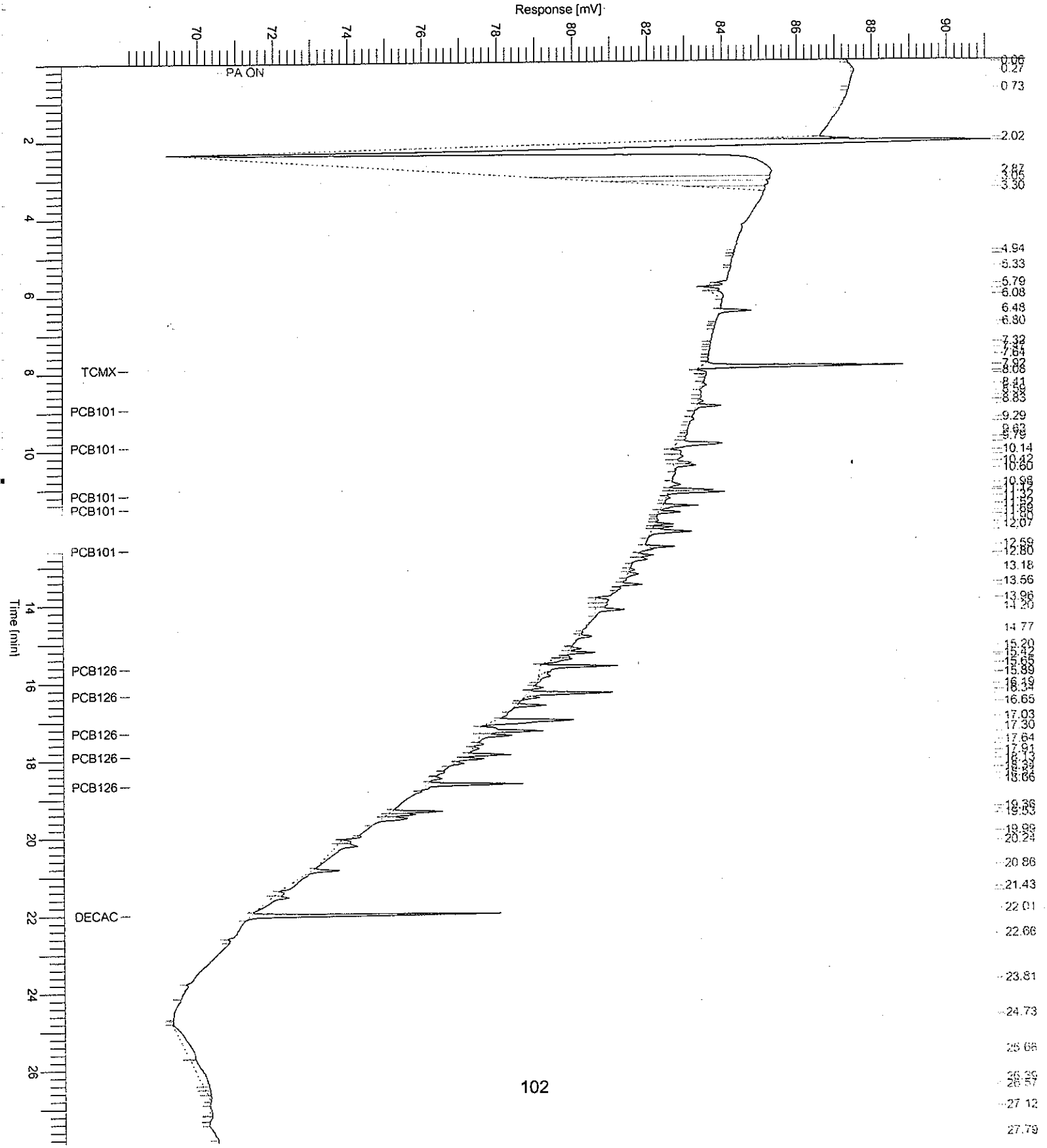
GC 06 Rtx-CLPesticides

ample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
leName : G:\gc06\CHa\215a013.raw
ate : 8/3/04 10:14:03 AM
ethod :
Time of Injection: 8/2/04 9:40:07 PM
lart Time : 6.40 min End Time : 22.97 min Low Point : 68.74 mV High Point : 90.63 mV
lot Offset: 68.74 mV Plot Scale: 21.9 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc06\CHa\215a013.raw
Date : 8/3/04 9:36:20 AM
Method : gc06fsa1ul Time of Injection: 8/2/04 9:40:07 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 68.15 mV High Point : 91.17 mV
Scale Factor: 1.0 Plot Offset: 68.15 mV Plot Scale: 23.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0970,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 8/3/04 9:41:42 AM
Data Acquisition Time : 8/2/04 9:40:07 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b013p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.637	20665.02	1.90	1.0000	1	1.90	0.38
Aroclor-1016	9.664	25577.98	10.24	1.0000	1	10.24	2.05
Aroclor-1260	17.098	52937.04	10.17	1.0000	1	10.17	2.03
Decachlorobiphenyl	20.867	24803.79	2.14	1.0000	1	2.14	0.43
		123983.84	24.46			24.46	4.89

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	2428.28	9.76	1.0000	1	9.76	1.95
PCB1016#2	9.010	3010.73	9.06	1.0000	1	9.06	1.81
PCB1016#3	9.664	12256.64	10.86	1.0000	1	10.86	2.17
PCB1016#4	9.920	4657.72	9.87	1.0000	1	9.87	1.97
PCB1016#5	11.043	3224.62	10.16	1.0000	1	10.16	2.03
		25577.98	49.72			49.72	9.94

8/3/04
CW 8/3/04

Group Report For : Aroclor-1260

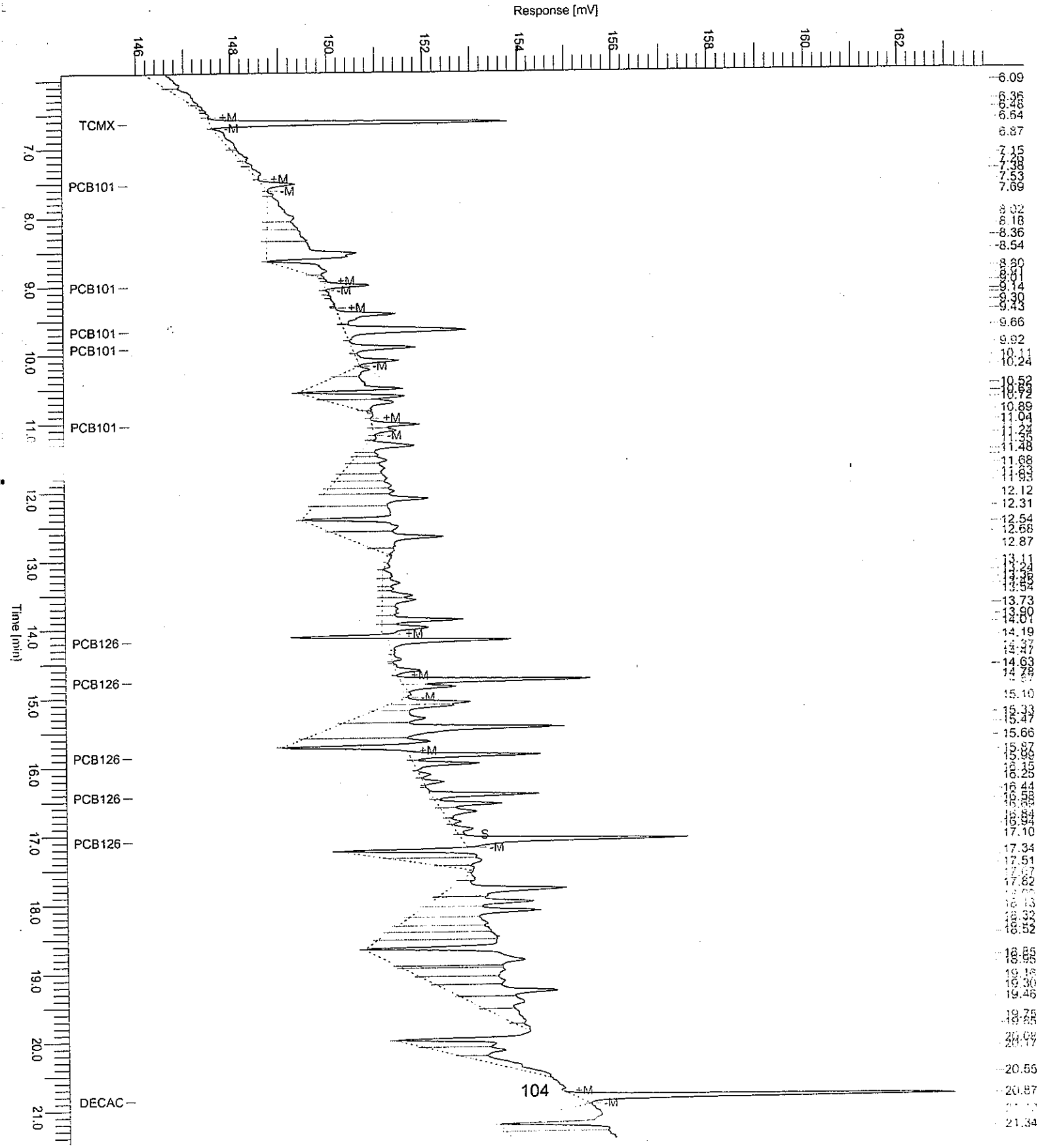
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.194	8049.23	10.09	1.0000	1	10.09	2.02
PCB1260#2	14.778	12545.02	10.44	1.0000	1	10.44	2.09
PCB1260#3	15.867	8361.43	9.58	1.0000	1	9.58	1.92
PCB1260#4	16.441	7082.84	10.41	1.0000	1	10.41	2.08
PCB1260#5	17.098	16898.52	10.23	1.0000	1	10.23	2.05
		52937.04	50.76			50.76	10.15

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\215b013p.TX0

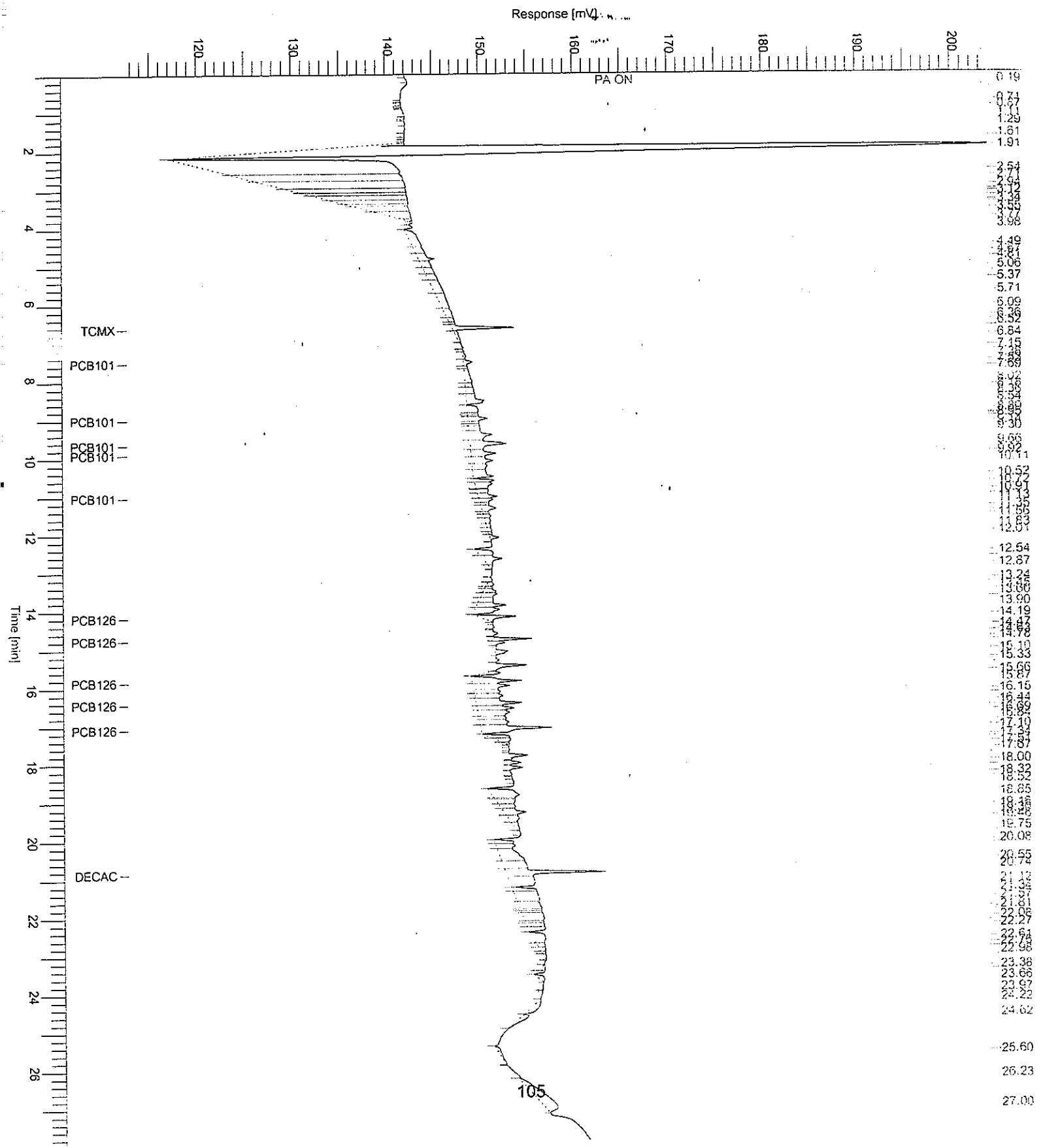
GC 06 Rtx-5

ample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
ileName : G:\gc06\CHb\215b013.raw
ate : 8/3/04 9:41:46 AM
lethod :
Time of Injection: 8/2/04 9:40:07 PM
tart Time : 5.91 min End Time : 21.48 min Low Point : 145.81 mV High Point : 163.92 mV
lot Offset: 145.81 mV Plot Scale: 18.1 mV



GC 06 Rtx-5

ample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
ileName : G:\gc06\CHb\215b013
ate : 8/3/04 9:35:38 AM
lethod : gc06fsa1ul Time of Injection: 8/2/04 9:40:07 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 112.62 mV High Point : 203.94 mV
cale Factor: 1.0 Plot Offset: 112.62 mV Plot Scale: 91.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0960,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 8/3/04 10:16:56 AM
Data Acquisition Time : 8/2/04 10:13:13 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a014p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.924	49887.54	5.60	1.0000	1	5.60	1.12
Aroclor-1016	11.174	47603.56	29.22	1.0000	1	29.22	5.84
Aroclor-1260	18.665	78977.90	27.78	1.0000	1	27.78	5.56
Decachlorobiphenyl	22.009	53546.93	5.84	1.0000	1	5.84	1.17
		230015.94	68.44			68.44	13.69

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.951	6242.97	29.86	1.0000	1	29.86	5.97
PCB1016#2	9.927	12547.94	29.85	1.0000	1	29.85	5.97
PCB1016#3	11.174	12881.58	28.25	1.0000	1	28.25	5.65
PCB1016#4	11.525	8769.14	30.59	1.0000	1	30.59	6.12
PCB1016#5	12.588	7161.92	27.84	1.0000	1	27.84	5.57
		47603.56	146.39			146.39	29.28

MB 8/3/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.656	13931.26	28.48	1.0000	1	28.48	5.70
PCB1260#2	16.339	22217.54	28.96	1.0000	1	28.96	5.79
PCB1260#3	17.305	10489.45	26.92	1.0000	1	26.92	5.38
PCB1260#4	17.915	9132.04	24.20	1.0000	1	24.20	4.84
PCB1260#5	18.665	23207.62	28.32	1.0000	1	28.32	5.66
		78977.90	136.89			136.89	27.38

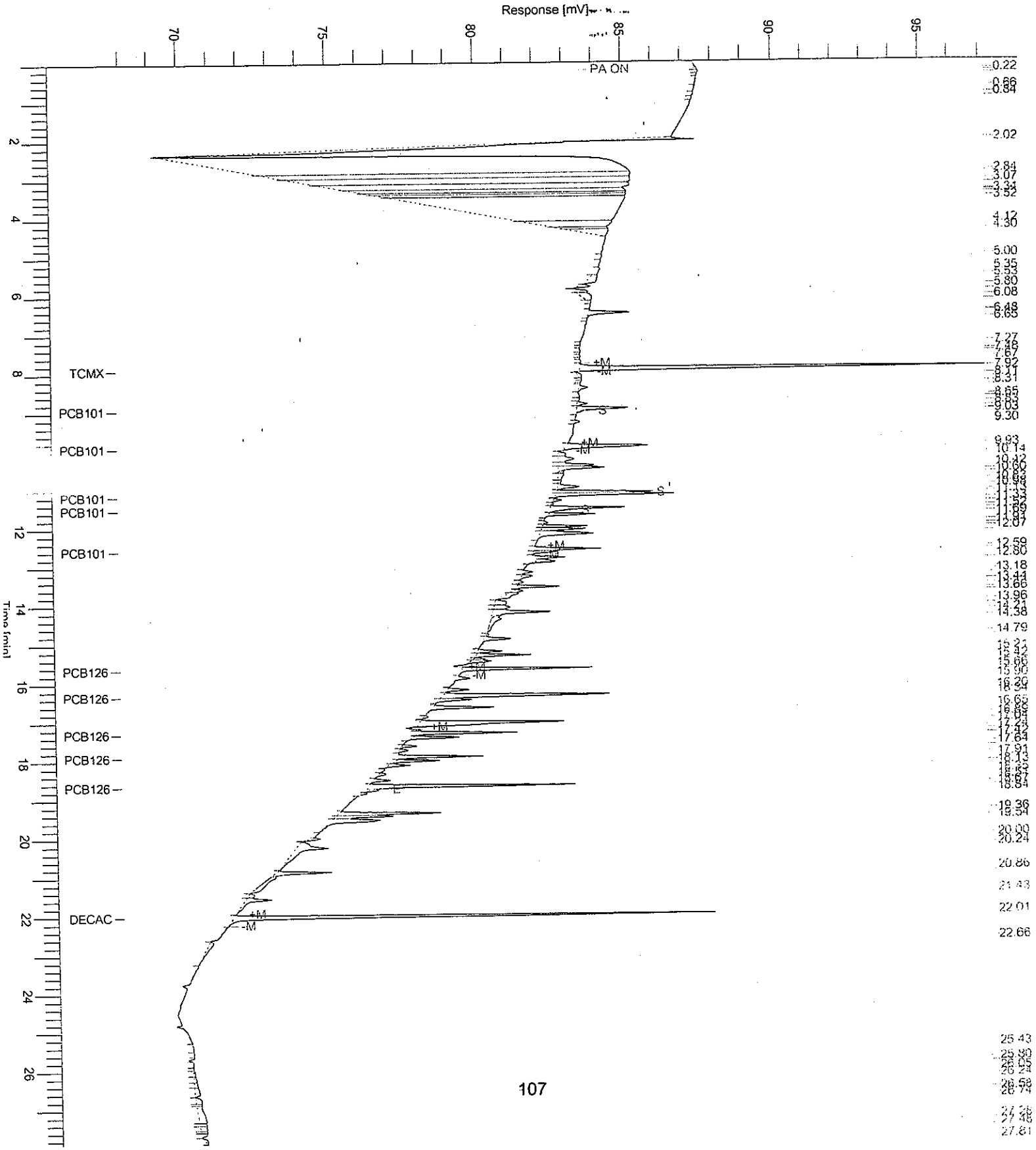
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a014p.TX0

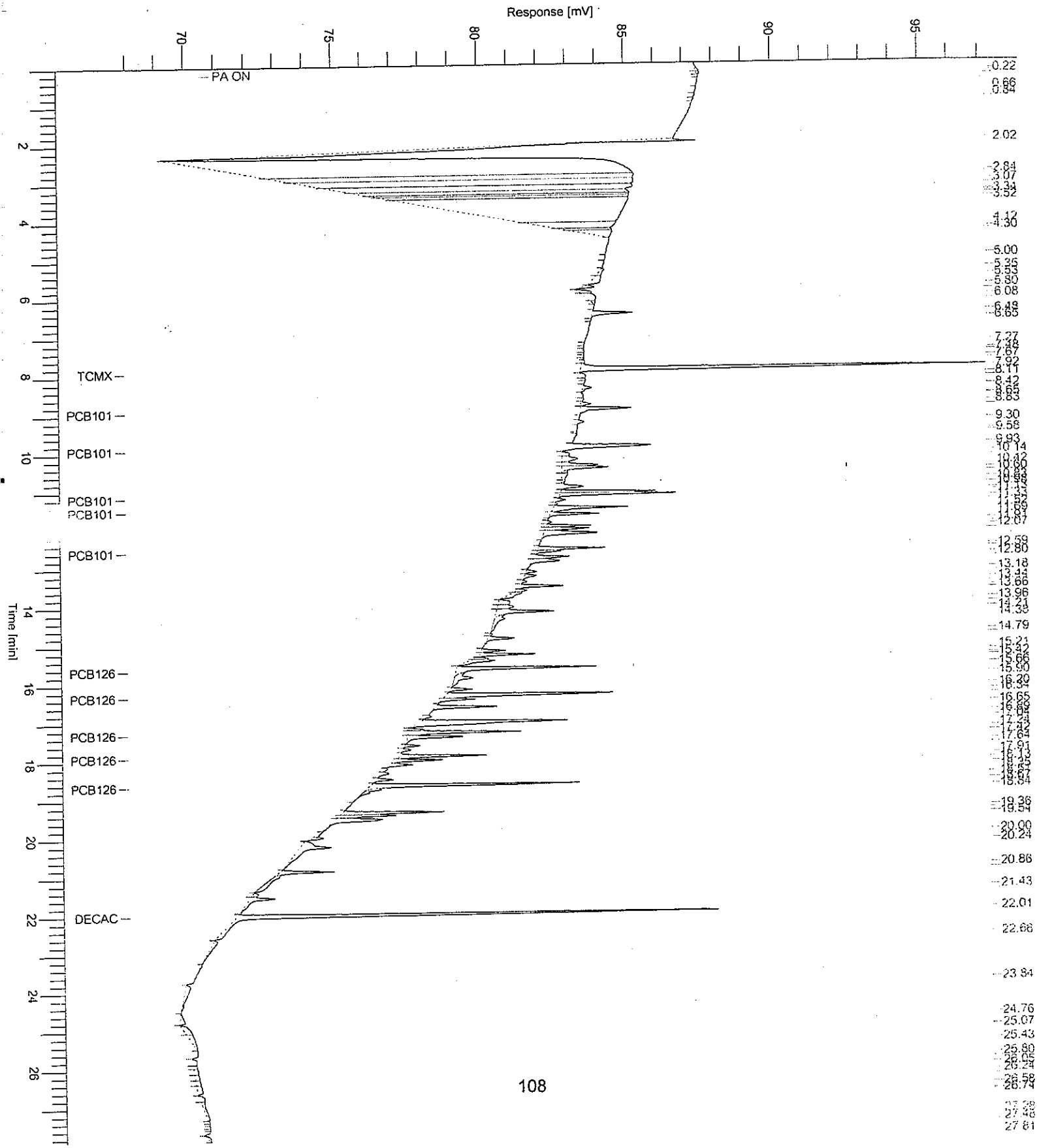
GC 06 Rtx-CLPesticides

nple Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
:Name : G:\gc06\CHa\215a014.raw
e : 8/3/04 10:17:01 AM
thod :
Time of Injection: 8/2/04 10:13:13 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 67.84 mV High Point : 97.21 mV
t Offset: 67.84 mV Plot Scale: 29.4 mV



GC 06 Rtx-CLPesticides

ımple Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
eName : G:\gc06\CHa\215a014.raw
ıte : 8/3/04 9:36:26 AM
ethod : gc06fsa1ul Time of Injection: 8/2/04 10:13:13 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 67.92 mV High Point : 97.21 mV
cale Factor: 1.0 Plot Offset: 67.92 mV Plot Scale: 29.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0960,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 8/3/04 9:47:50 AM
Data Acquisition Time : 8/2/04 10:13:13 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b014p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	57666.60	5.31	1.0000	1	5.31	1.06
Aroclor-1016	9.665	65540.52	26.23	1.0000	1	26.23	5.25
Aroclor-1260	17.093	132681.06	25.50	1.0000	1	25.50	5.10
Decachlorobiphenyl	20.867	59590.34	5.14	1.0000	1	5.14	1.03
		315478.52	62.19			62.19	12.44

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.534	6054.14	24.34	1.0000	1	24.34	4.87
PCB1016#2	9.012	7934.76	23.89	1.0000	1	23.89	4.78
PCB1016#3	9.665	30822.75	27.32	1.0000	1	27.32	5.46
PCB1016#4	9.920	12565.15	26.64	1.0000	1	26.64	5.33
PCB1016#5	11.043	8163.71	25.71	1.0000	1	25.71	5.14
		65540.52	127.89			127.89	25.58

BB 8/3/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.193	21080.07	26.44	1.0000	1	26.44	5.29
PCB1260#2	14.773	32637.51	27.17	1.0000	1	27.17	5.43
PCB1260#3	15.867	21808.64	24.99	1.0000	1	24.99	5.00
PCB1260#4	16.441	16462.37	24.18	1.0000	1	24.18	4.84
PCB1260#5	17.093	40692.48	24.64	1.0000	1	24.64	4.93
		132681.06	127.42			127.42	25.48

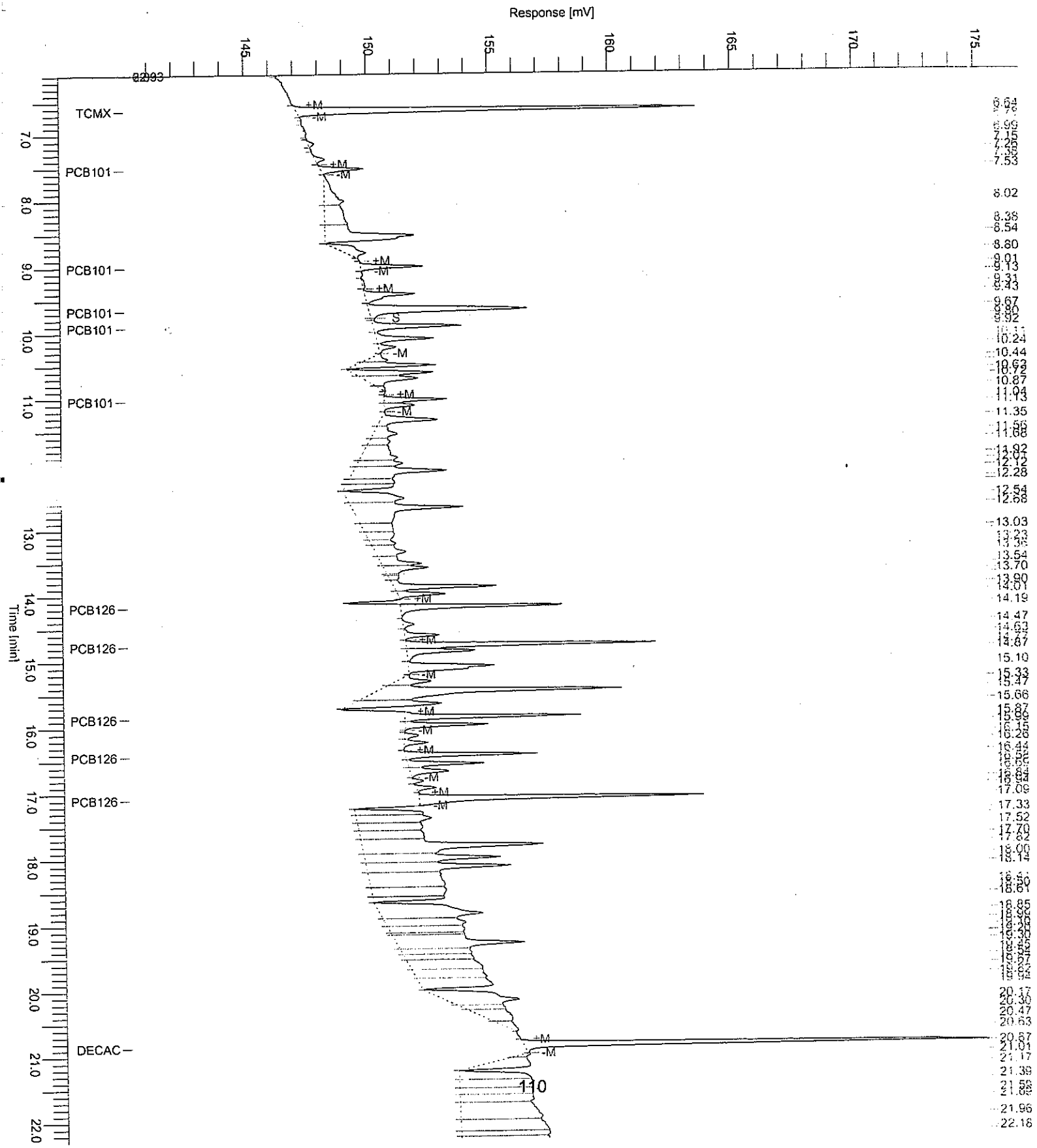
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\215b014p.TX0

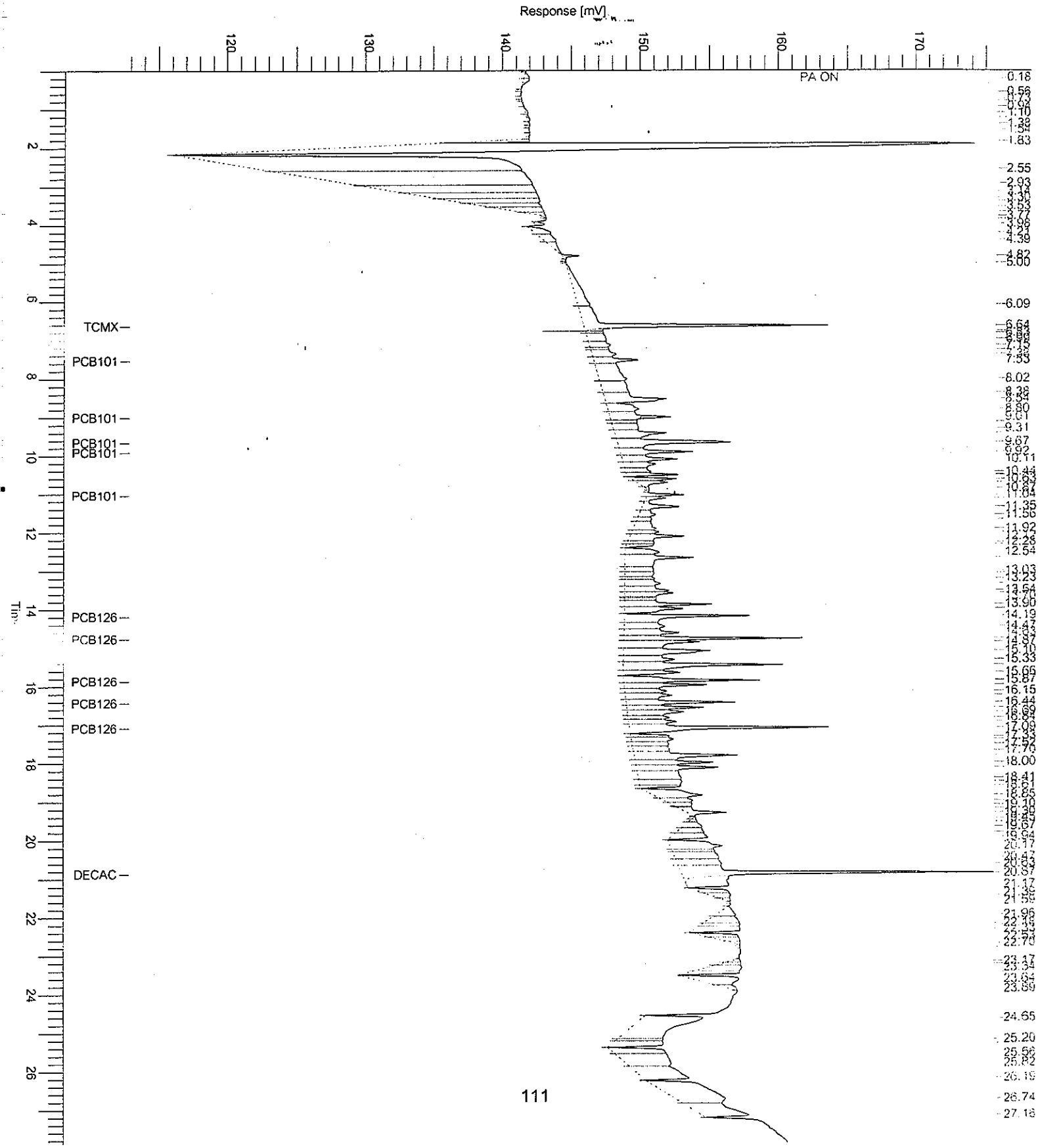
GC 06 Rtx-5

ample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
leName : G:\gc06\CHb\215b014.raw
ate : 8/3/04 9:47:55 AM
ethod :
Time of Injection: 8/2/04 10:13:13 PM
:art Time : 6.09 min End Time : 22.29 min Low Point : 140.04 mV High Point : 175.47 mV
ot Offset: 140.04 mV Plot Scale: 35.4 mV



GC 06 Rtx-5

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc06\CHb\215b014
Date : 8/3/04 9:35:43 AM
Method : gc06fsa1ul Time of Injection: 8/2/04 10:13:13 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 112.99 mV High Point : 175.79 mV
Scale Factor: 1.0 Plot Offset: 112.99 mV Plot Scale: 62.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0961,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 8/3/04 10:17:58 AM
Data Acquisition Time : 8/2/04 10:46:25 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a015p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.925	185272.00	20.81	1.0000	1	20.81	4.16
Aroclor-1016	11.174	184487.21	113.22	1.0000	1	113.22	22.64
Aroclor-1260	18.664	320013.26	112.57	1.0000	1	112.57	22.51
Decachlorobiphenyl	22.009	197442.82	21.52	1.0000	1	21.52	4.30
		887215.29	268.13			268.13	53.63

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.951	23292.46	111.41	1.0000	1	111.41	22.28
PCB1016#2	9.927	46015.06	109.47	1.0000	1	109.47	21.89
PCB1016#3	11.174	52205.94	114.47	1.0000	1	114.47	22.89
PCB1016#4	11.525	34834.22	121.50	1.0000	1	121.50	24.30
PCB1016#5	12.587	28139.54	109.39	1.0000	1	109.39	21.88
		184487.21	566.25			566.25	113.25

MB 8/3/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.656	55861.16	114.22	1.0000	1	114.22	22.84
PCB1260#2	16.339	84986.09	110.78	1.0000	1	110.78	22.16
PCB1260#3	17.305	45833.81	117.63	1.0000	1	117.63	23.53
PCB1260#4	17.914	39727.99	105.30	1.0000	1	105.30	21.06
PCB1260#5	18.664	93604.20	114.22	1.0000	1	114.22	22.84
		320013.26	562.14			562.14	112.43

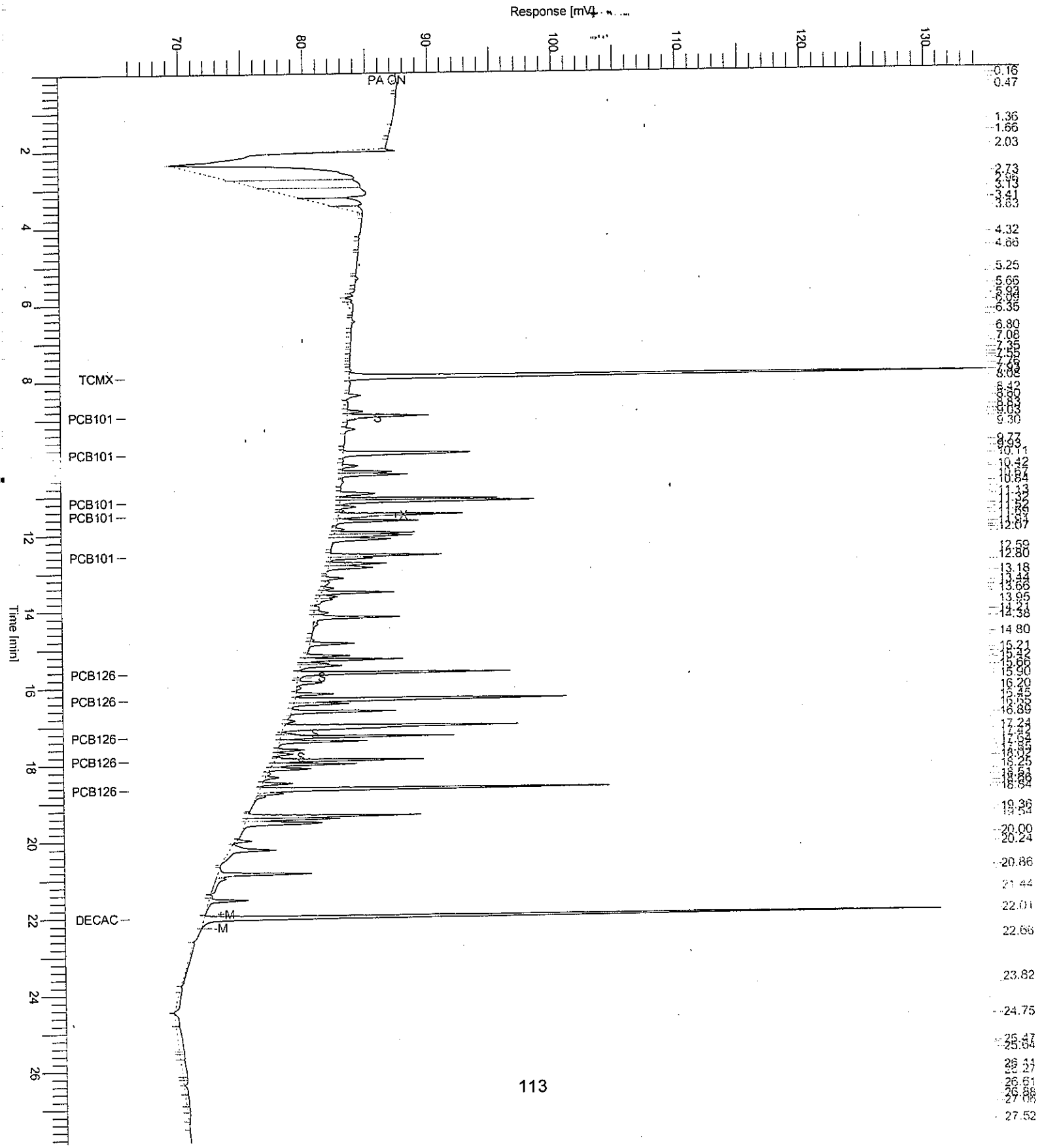
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a015p.TX0

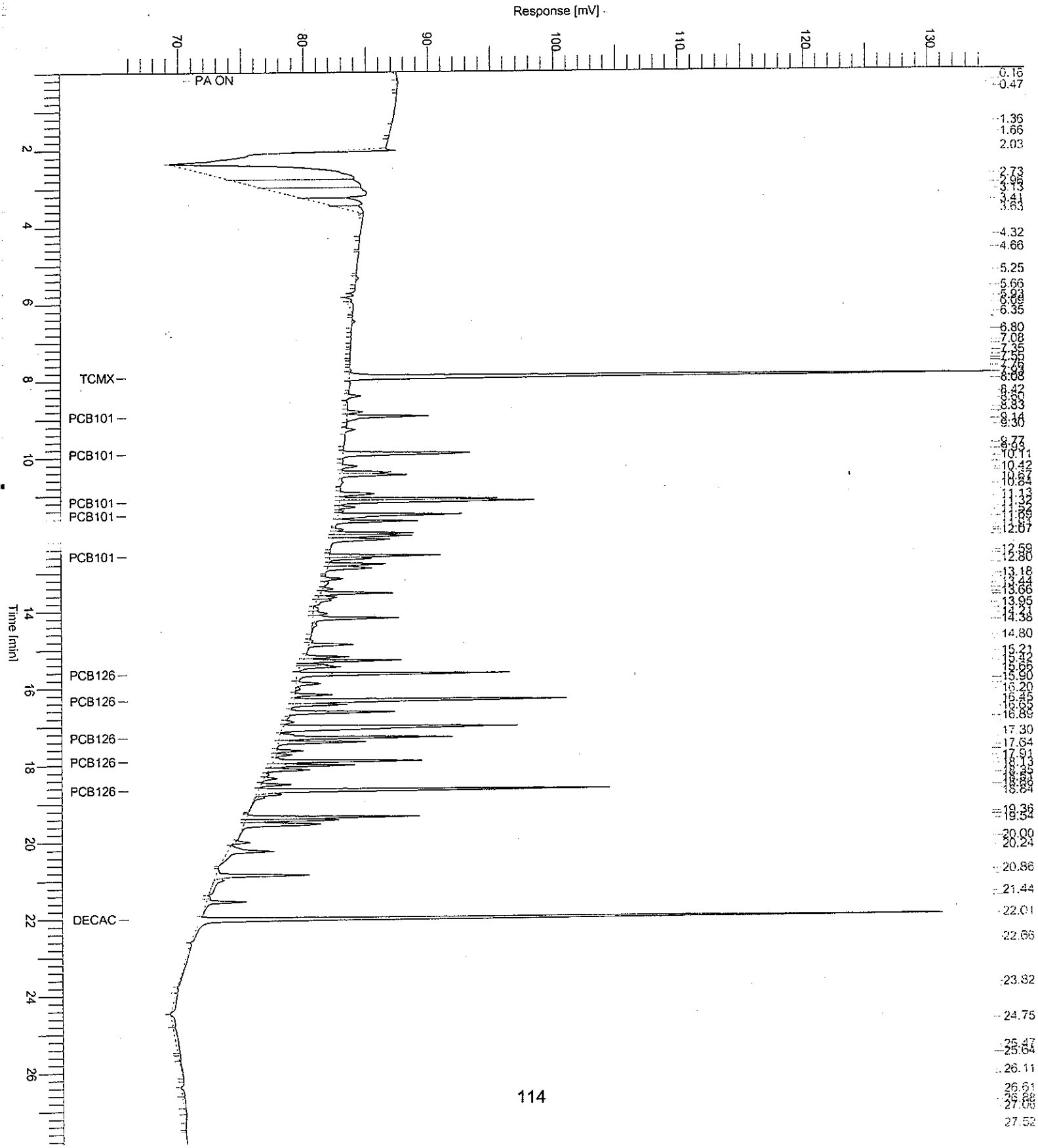
GC 06 Rtx-CLPesticides

ample Name : ical,04ws0961,pcb100_20 Sample #: level 3 Page 1 of 1
leName : G:\gc06\CHa\215a015.raw
ate : 8/3/04 10:18:04 AM
ethod :
Time of Injection: 8/2/04 10:46:25 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 65.63 mV High Point : 134.92 mV
ot Offset: 65.63 mV Plot Scale: 69.3 mV



GC 06 Rtx-CLPesticides

ample Name : ical,04ws0961,pcb100_20 Sample #: level 3 Page 1 of 1
leName : G:\gc06\CHa\215a015.raw
ate : 8/3/04 9:36:33 AM
ethod : gc06fsa1ul Time of Injection: 8/2/04 10:46:25 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 65.80 mV High Point : 134.92 mV
cale Factor: 1.0 Plot Offset: 65.80 mV Plot Scale: 69.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0961,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 8/3/04 9:53:23 AM
Data Acquisition Time : 8/2/04 10:46:25 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b015p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	222041.07	20.46	1.0000	1	20.46	4.09
Aroclor-1016	9.667	252915.40	101.23	1.0000	1	101.23	20.25
Aroclor-1260	17.093	529596.95	101.77	1.0000	1	101.77	20.35
Decachlorobiphenyl	20.867	231714.30	20.00	1.0000	1	20.00	4.00
		1236267.71	243.47			243.47	48.69

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.532	23976.46	96.38	1.0000	1	96.38	19.28
PCB1016#2	9.011	32912.76	99.08	1.0000	1	99.08	19.82
PCB1016#3	9.667	117928.00	104.52	1.0000	1	104.52	20.90
PCB1016#4	9.920	46599.63	98.80	1.0000	1	98.80	19.76
PCB1016#5	11.040	31498.55	99.22	1.0000	1	99.22	19.84
		252915.40	497.99			497.99	99.60

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.187	86452.50	108.42	1.0000	1	108.42	21.68
PCB1260#2	14.773	129782.28	108.02	1.0000	1	108.02	21.60
PCB1260#3	15.867	84525.91	96.87	1.0000	1	96.87	19.37
PCB1260#4	16.440	67716.14	99.48	1.0000	1	99.48	19.90
PCB1260#5	17.093	161120.12	97.55	1.0000	1	97.55	19.51
		529596.95	510.35			510.35	102.07

SB 8/3/04

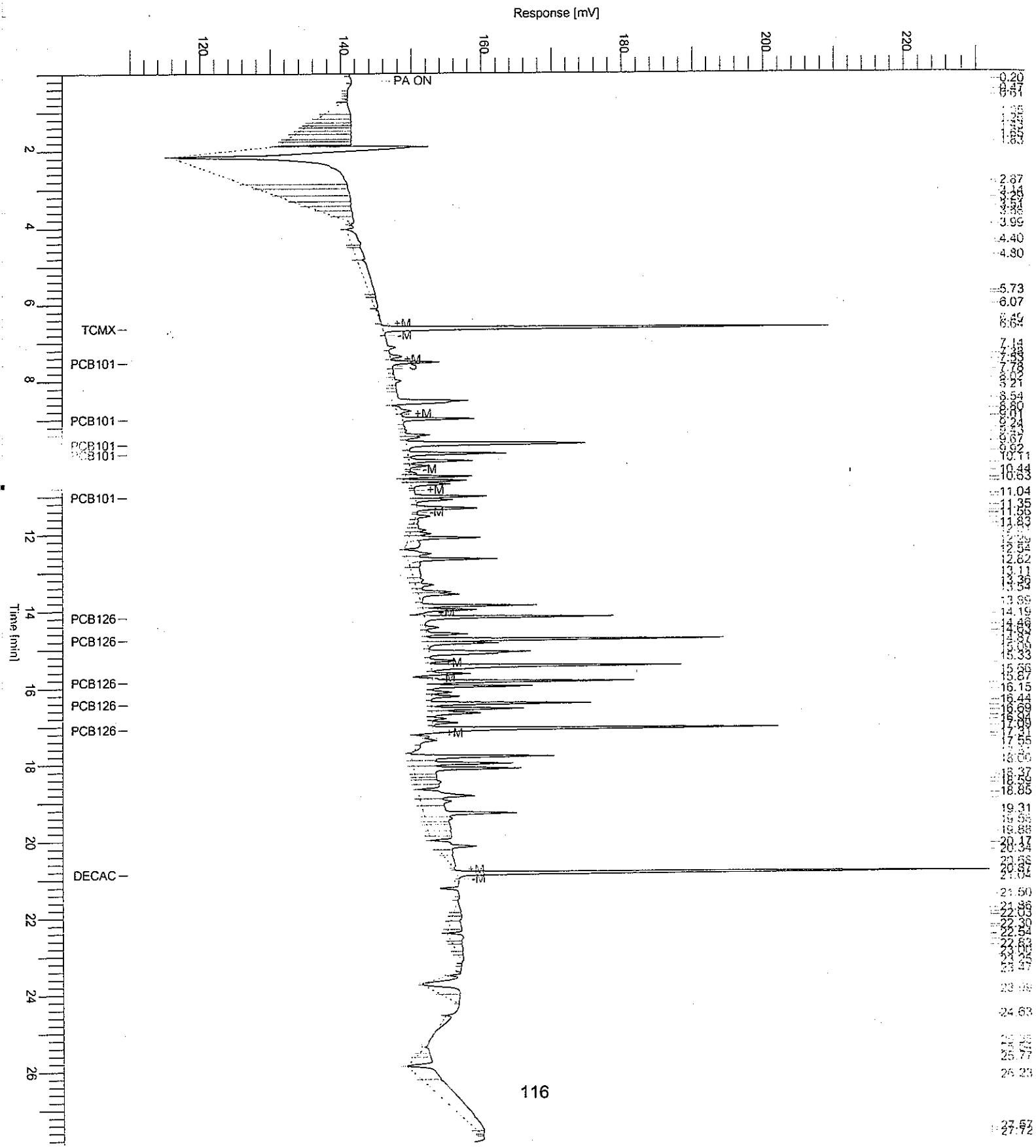
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\215b015p.TX0

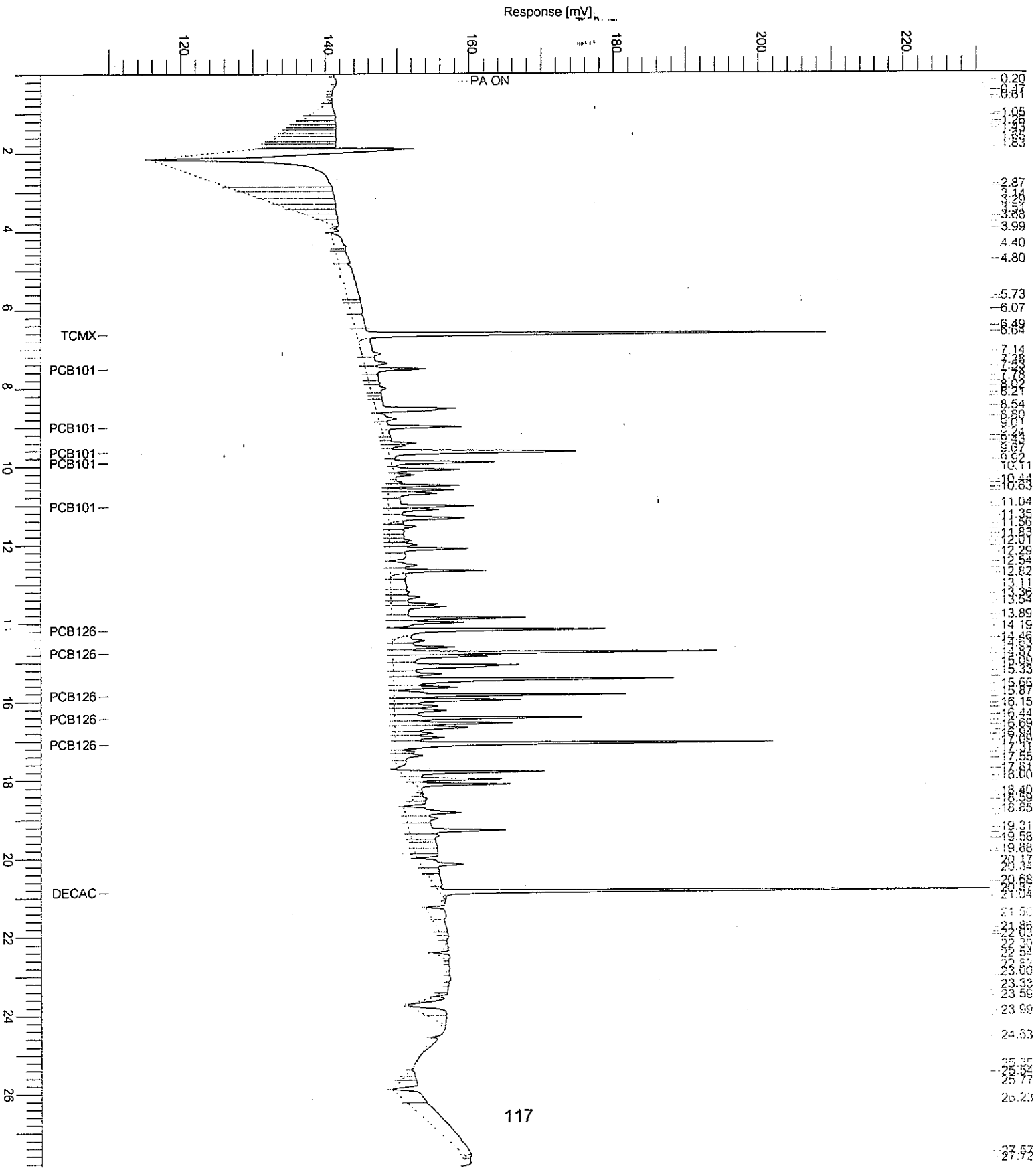
GC 06 Rtx-5

Sample Name : ical,04ws0961,pcb100_20 Sample #: level 3 Page 1 of 1
FileName : G:\gc06\CHb\215b015.raw
Date : 8/3/04 9:53:28 AM
Method :
Time of Injection: 8/2/04 10:46:25 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 109.61 mV High Point : 232.00 mV
Plot Offset: 109.61 mV Plot Scale: 122.4 mV



GC 06 Rtx-5

Sample Name : ical,04ws0961,pcb100_20 Sample #: level 3 Page 1 of 1
FileName : G:\gc06\CHb\215b015
Date : 8/3/04 9:35:49 AM
Method : gc06fsa1ul Time of Injection: 8/2/04 10:46:25 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 109.92 mV High Point : 232.00 mV
Scale Factor: 1.0 Plot Offset: 109.92 mV Plot Scale: 122.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0962,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/16
Sample Amount : 1.000000
Cycle : 16

Date : 8/3/04 10:19:16 AM
Data Acquisition Time : 8/2/04 11:19:38 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a016p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.920	495145.55	55.61	1.0000	1	55.61	11.12
Aroclor-1016	11.174	472663.53	290.09	1.0000	1	290.09	58.02
Aroclor-1260	18.665	819554.28	288.30	1.0000	1	288.30	57.66
Decachlorobiphenyl	22.013	641586.53	69.94	1.0000	1	69.94	13.99
		2428949.88	703.93			703.93	140.79

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.950	60096.61	287.46	1.0000	1	287.46	57.49
PCB1016#2	9.927	115813.11	275.53	1.0000	1	275.53	55.11
PCB1016#3	11.174	133424.95	292.56	1.0000	1	292.56	58.51
PCB1016#4	11.525	91174.39	318.02	1.0000	1	318.02	63.60
PCB1016#5	12.588	72154.46	280.49	1.0000	1	280.49	56.10
		472663.53	1454.05			1454.05	290.81

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.656	135998.74	278.07	1.0000	1	278.07	55.61
PCB1260#2	16.339	215111.78	280.39	1.0000	1	280.39	56.08
PCB1260#3	17.305	113643.59	291.66	1.0000	1	291.66	58.33
PCB1260#4	17.915	108313.58	287.09	1.0000	1	287.09	57.42
PCB1260#5	18.665	246486.59	300.77	1.0000	1	300.77	60.15
		819554.28	1437.98			1437.98	287.60

PB 8/3/04

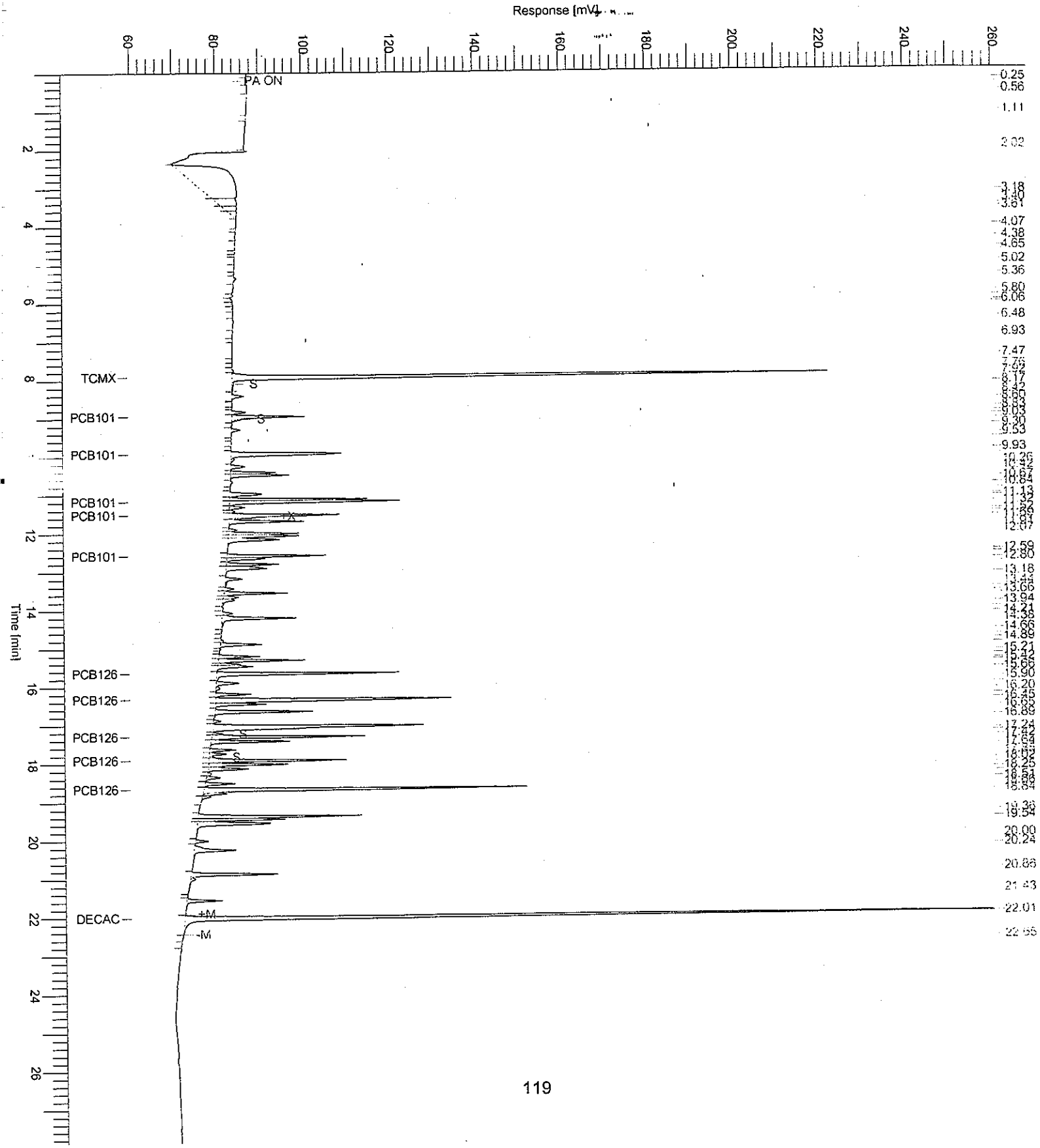
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a016p.TX0

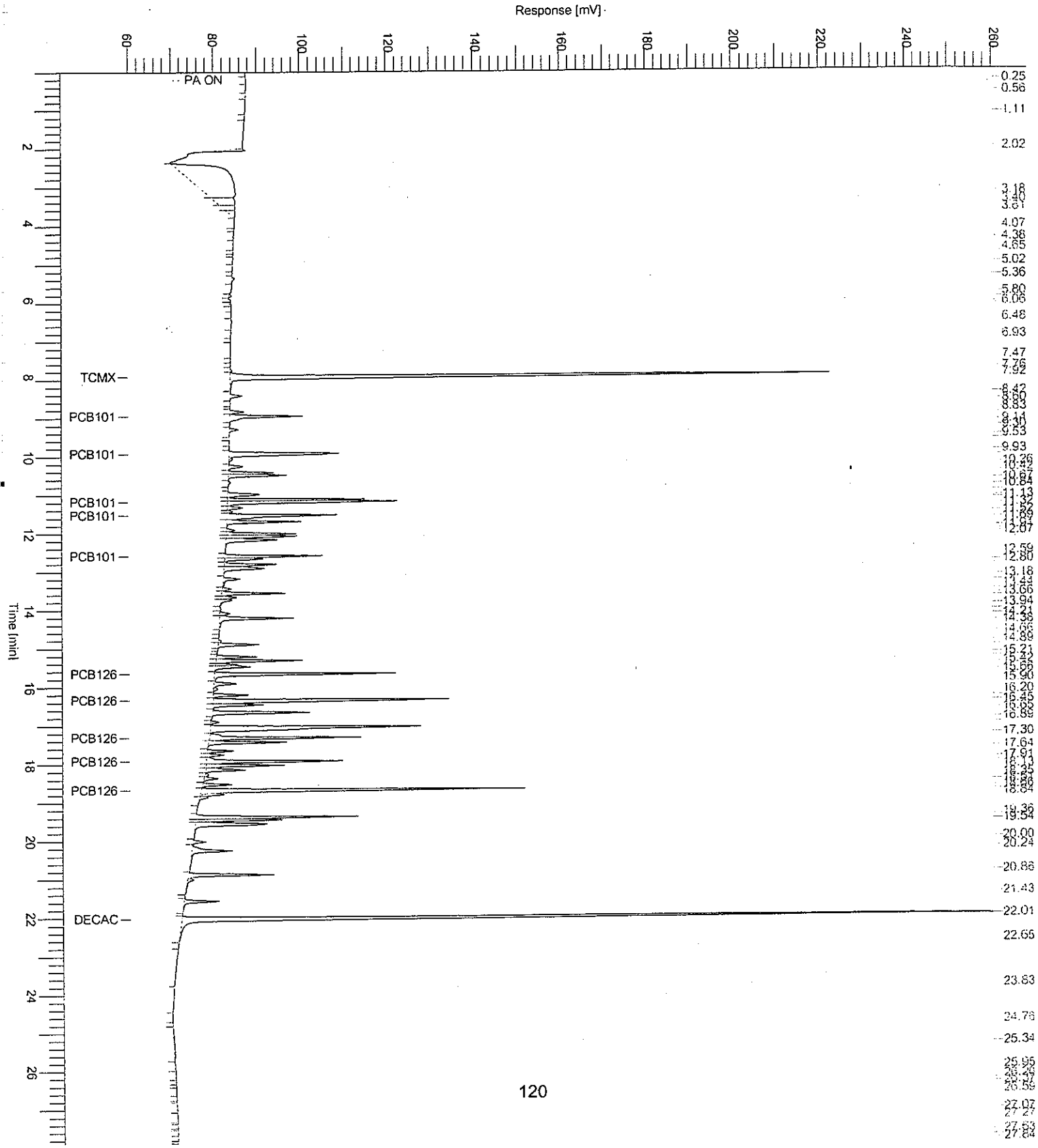
GC 06 Rtx-CLPesticides

ample Name : ical,04ws0962,pcb250_50 Sample #: level 4 Page 1 of 1
leName : G:\gc06\CHa\215a016.raw
ate : 8/3/04 10:19:21 AM
ethod :
Time of Injection: 8/2/04 11:19:38 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 59.34 mV High Point : 260.27 mV
lot Offset: 59.34 mV Plot Scale: 200.9 mV



GC 06 Rtx-CLPesticides

ample Name : ical,04ws0962,pcb250_50 Sample #: level 4
leName : G:\gc06\CHa\215a016.raw
ate : 8/3/04 9:36:40 AM
ethod : gc06fsa1ul Time of Injection: 8/2/04 11:19:38 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 59.84 mV High Point : 260.27 mV
cale Factor: 1.0 Plot Offset: 59.84 mV Plot Scale: 200.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0962,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/16
Sample Amount : 1.000000
Cycle : 16

Date : 8/3/04 9:56:25 AM
Data Acquisition Time : 8/2/04 11:19:38 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b016p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	589265.41	54.31	1.0000	1	54.31	10.86
Aroclor-1016	9.667	652639.81	261.22	1.0000	1	261.22	52.24
Aroclor-1260	17.093	1422708.59	273.40	1.0000	1	273.40	54.68
Decachlorobiphenyl	20.867	798609.93	68.93	1.0000	1	68.93	13.79
		3463223.75	657.86			657.86	131.57

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	64646.54	259.86	1.0000	1	259.86	51.97
PCB1016#2	9.013	85663.31	257.89	1.0000	1	257.89	51.58
PCB1016#3	9.667	299696.12	265.61	1.0000	1	265.61	53.12
PCB1016#4	9.920	120959.65	256.45	1.0000	1	256.45	51.29
PCB1016#5	11.040	81674.19	257.26	1.0000	1	257.26	51.45
		652639.81	1297.07			1297.07	259.41

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.187	230464.46	289.03	1.0000	1	289.03	57.81
PCB1260#2	14.773	336247.08	279.87	1.0000	1	279.87	55.97
PCB1260#3	15.867	225262.31	258.16	1.0000	1	258.16	51.63
PCB1260#4	16.440	177457.88	260.70	1.0000	1	260.70	52.14
PCB1260#5	17.093	453276.85	274.45	1.0000	1	274.45	54.89
		1422708.59	1362.20			1362.20	272.44

JB 8/3/04

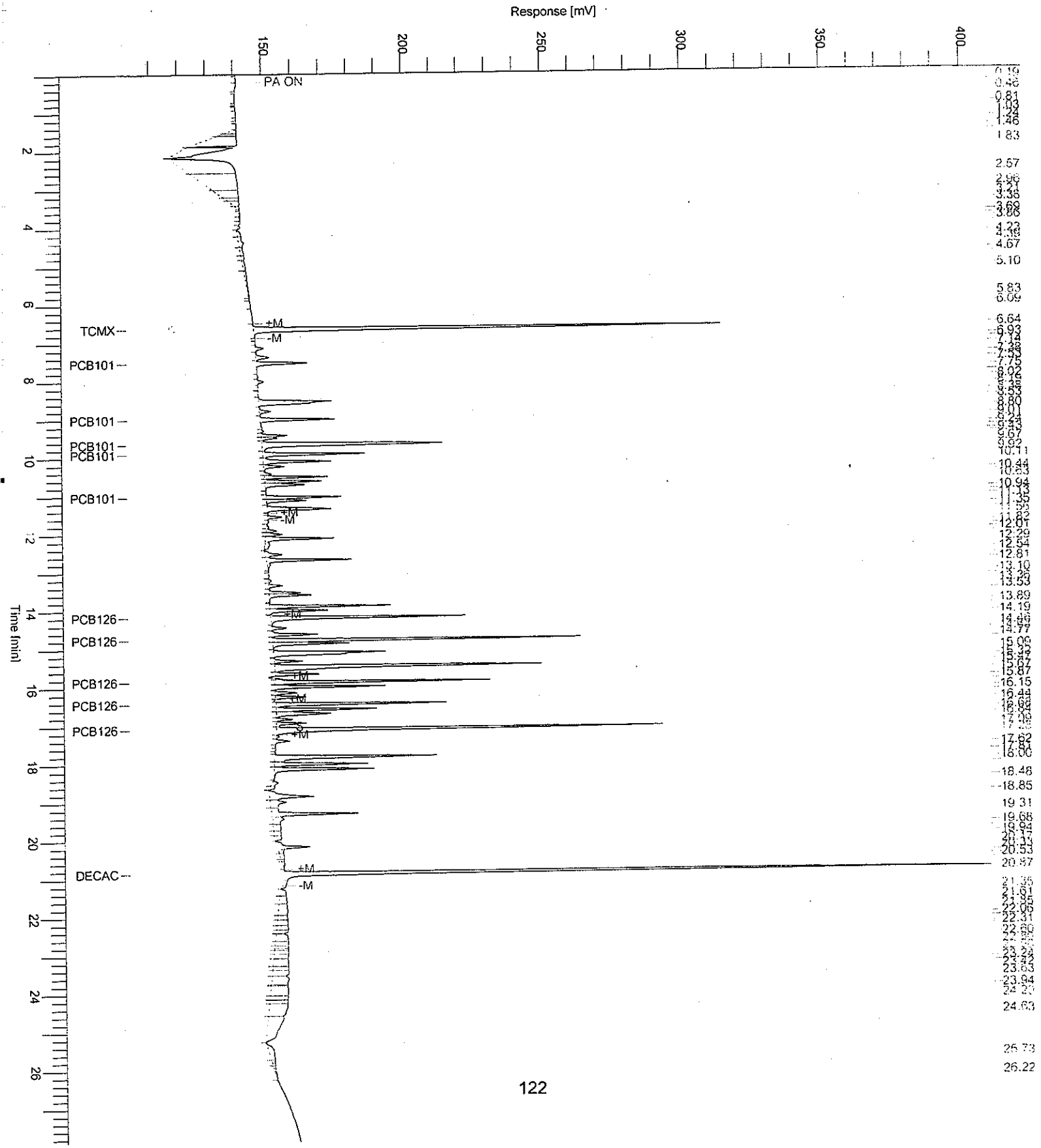
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\215b016p.TX0

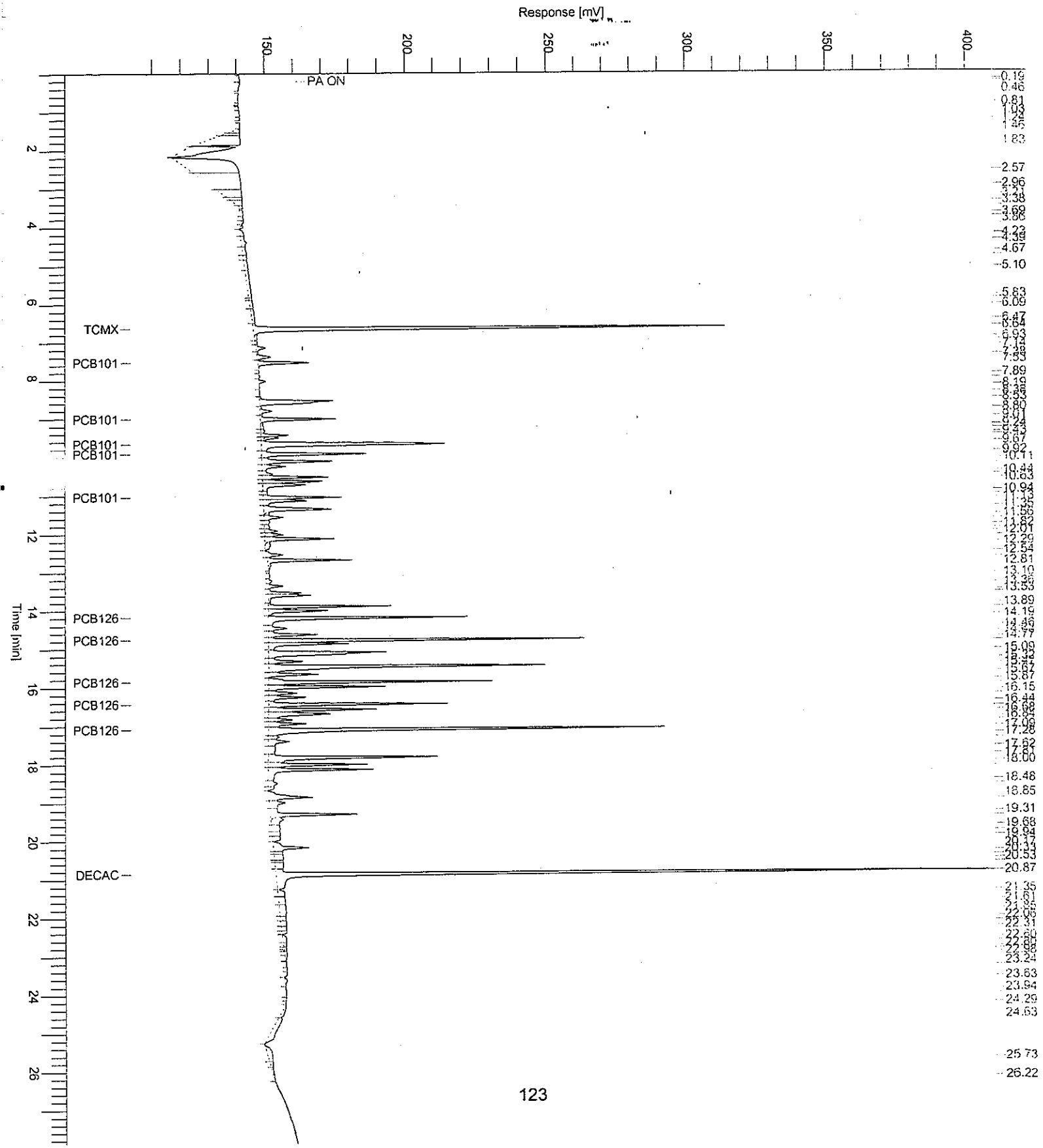
GC 06 Rtx-5

ample Name : ical,04ws0962,pcb250_50 Sample #: level 4 Page 1 of 1
leName : G:\gc06\CHb\215b016.raw
ate : 8/3/04 9:56:31 AM
ethod :
Time of Injection: 8/2/04 11:19:38 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 101.66 mV High Point : 409.63 mV
ot Offset: 101.66 mV Plot Scale: 308.0 mV



GC 06 Rtx-5

Sample Name : ical,04ws0962,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc06\CHb\215b016
Date : 8/3/04 9:35:55 AM
Method : gc06fsa1ul Time of Injection: 8/2/04 11:19:38 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 102.43 mV High Point : 409.63 mV
Scale Factor: 1.0 Plot Offset: 102.43 mV Plot Scale: 307.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0963,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/17
Sample Amount : 1.000000
Cycle : 17

Date : 8/3/04 10:20:33 AM
Data Acquisition Time : 8/2/04 11:52:44 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a017p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	841200.20	94.47	1.0000	1	94.47	18.89
Aroclor-1016	11.180	777569.24	477.21	1.0000	1	477.21	95.44
Aroclor-1260	18.667	1297653.54	456.49	1.0000	1	456.49	91.30
Decachlorobiphenyl	22.013	743784.68	81.08	1.0000	1	81.08	16.22
		3660207.65	1109.25			1109.25	221.85

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.953	102881.91	492.11	1.0000	1	492.11	98.42
PCB1016#2	9.929	188890.28	449.38	1.0000	1	449.38	89.88
PCB1016#3	11.180	218251.16	478.56	1.0000	1	478.56	95.71
PCB1016#4	11.529	148932.91	519.48	1.0000	1	519.48	103.90
PCB1016#5	12.589	118612.98	461.09	1.0000	1	461.09	92.22
		777569.24	2400.62			2400.62	480.12

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.657	211097.54	431.62	1.0000	1	431.62	86.32
PCB1260#2	16.333	335998.37	437.97	1.0000	1	437.97	87.59
PCB1260#3	17.306	183779.29	471.66	1.0000	1	471.66	94.33
PCB1260#4	17.916	172129.50	456.23	1.0000	1	456.23	91.25
PCB1260#5	18.667	394648.84	481.57	1.0000	1	481.57	96.31
		1297653.54	2279.04			2279.04	455.81

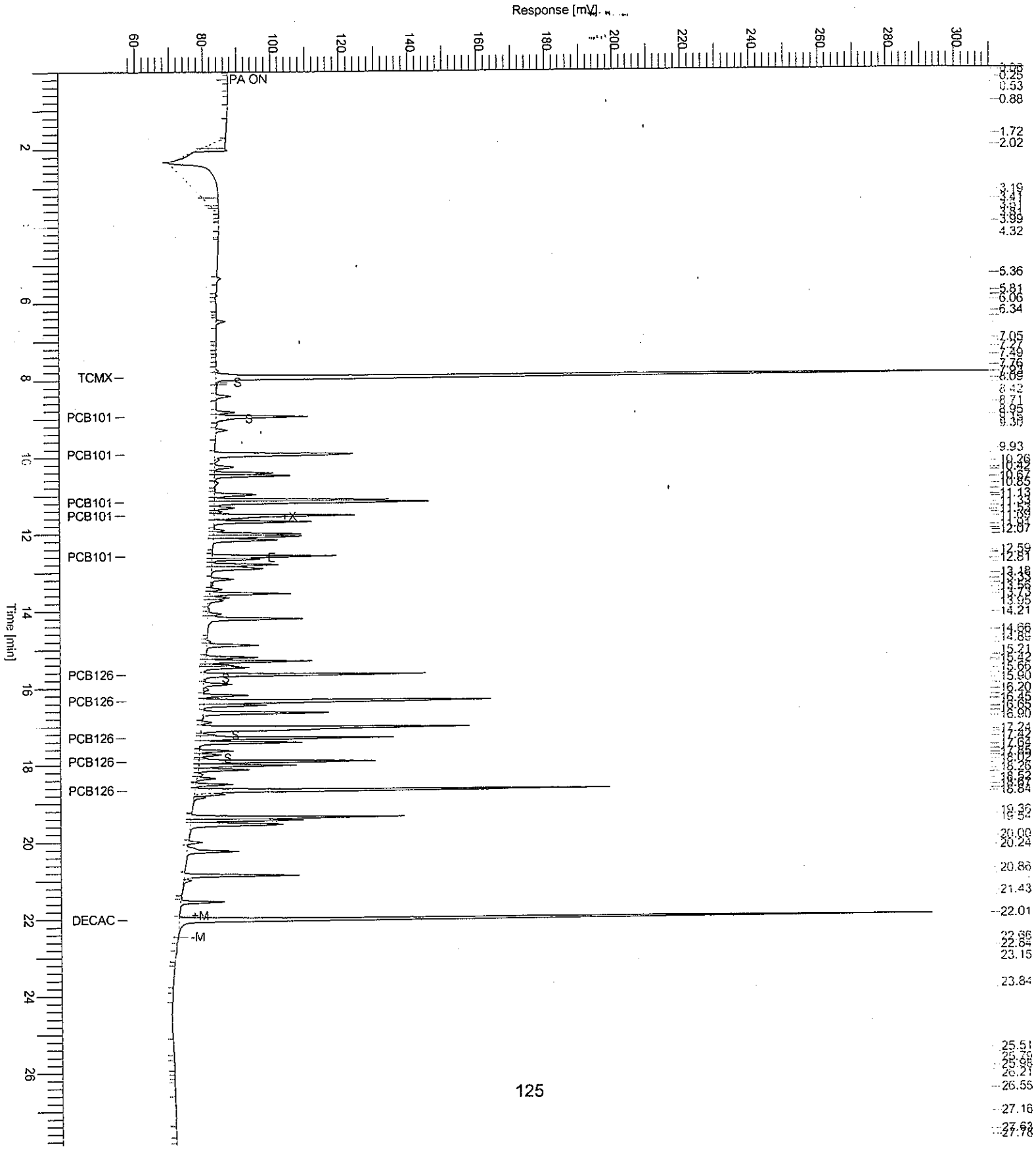
MB 8/3/04
CT 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a017p.TX0

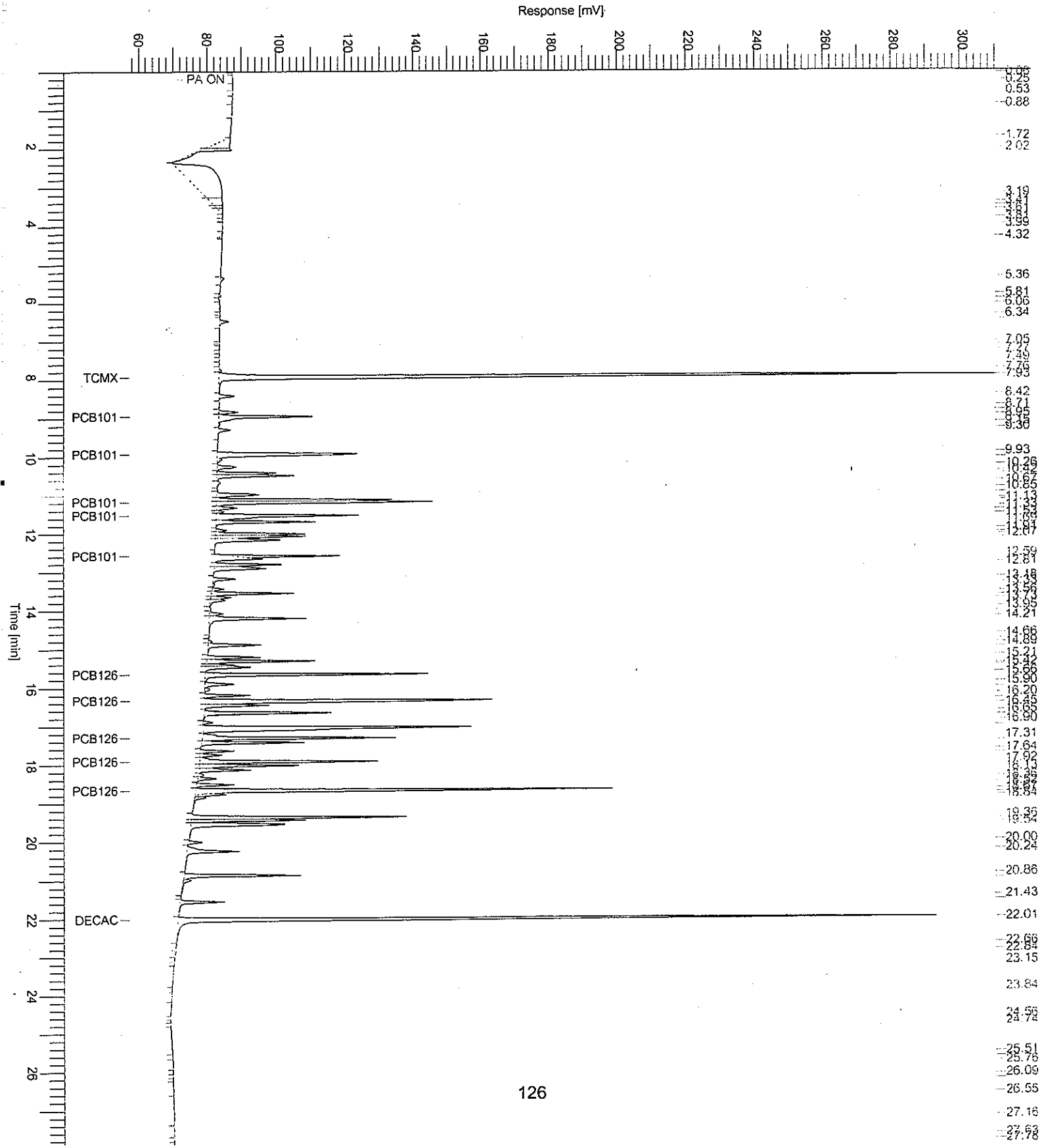
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0963,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\CHa\215a017.raw
Date : 8/3/04 10:20:39 AM
Method : Time of Injection: 8/2/04 11:52:44 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 56.66 mV High Point : 310.43 mV
Plot Offset: 56.66 mV Plot Scale: 253.8 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0963,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\CHa\215a017.raw
Date : 8/3/04 9:36:46 AM
Method : gc06fsa1ul Time of Injection: 8/2/04 11:52:44 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 57.29 mV High Point : 310.43 mV
Scale Factor: 1.0 Plot Offset: 57.29 mV Plot Scale: 253.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0963,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/17
Sample Amount : 1.000000
Cycle : 17

Date : 8/3/04 9:59:08 AM
Data Acquisition Time : 8/2/04 11:52:44 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b017p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	988412.23	91.09	1.0000	1	91.09	18.22
Aroclor-1016	9.667	1050711.66	420.55	1.0000	1	420.55	84.11
Aroclor-1260	17.093	2298528.45	441.71	1.0000	1	441.71	88.34
Decachlorobiphenyl	20.867	935736.87	80.77	1.0000	1	80.77	16.15
		5273389.21	1034.12			1034.12	206.82

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	110926.27	445.89	1.0000	1	445.89	89.18
PCB1016#2	9.013	139905.13	421.18	1.0000	1	421.18	84.24
PCB1016#3	9.667	472478.44	418.75	1.0000	1	418.75	83.75
PCB1016#4	9.920	192916.11	409.00	1.0000	1	409.00	81.80
PCB1016#5	11.040	134485.71	423.61	1.0000	1	423.61	84.72
		1050711.66	2118.43			2118.43	423.69

8/3/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.187	364794.72	457.49	1.0000	1	457.49	91.50
PCB1260#2	14.773	533085.61	443.70	1.0000	1	443.70	88.74
PCB1260#3	15.867	370188.68	424.25	1.0000	1	424.25	84.85
PCB1260#4	16.440	296004.87	434.86	1.0000	1	434.86	86.97
PCB1260#5	17.093	734454.57	444.69	1.0000	1	444.69	88.94
		2298528.45	2204.99			2204.99	441.00

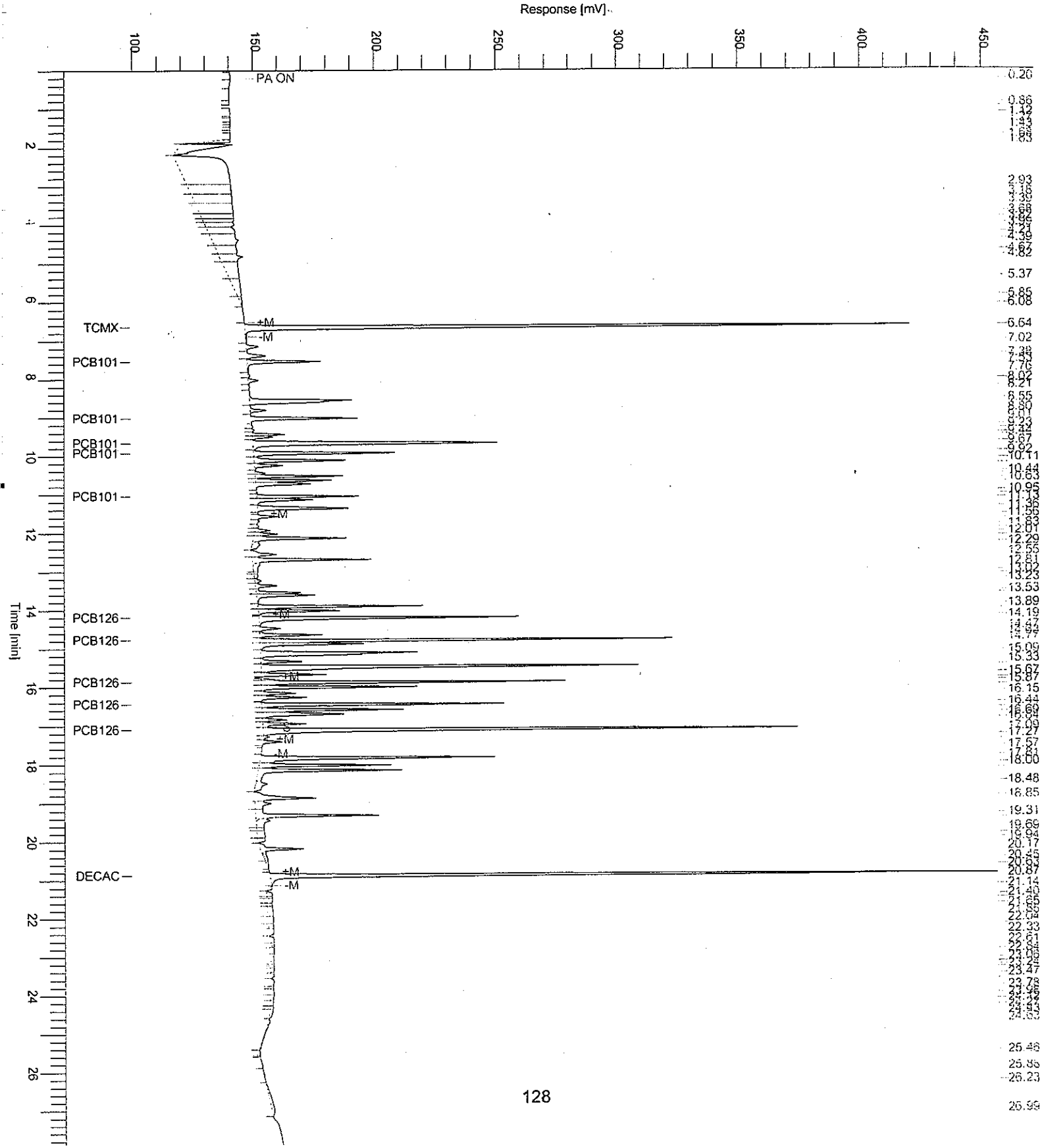
8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\215b017p.TX0

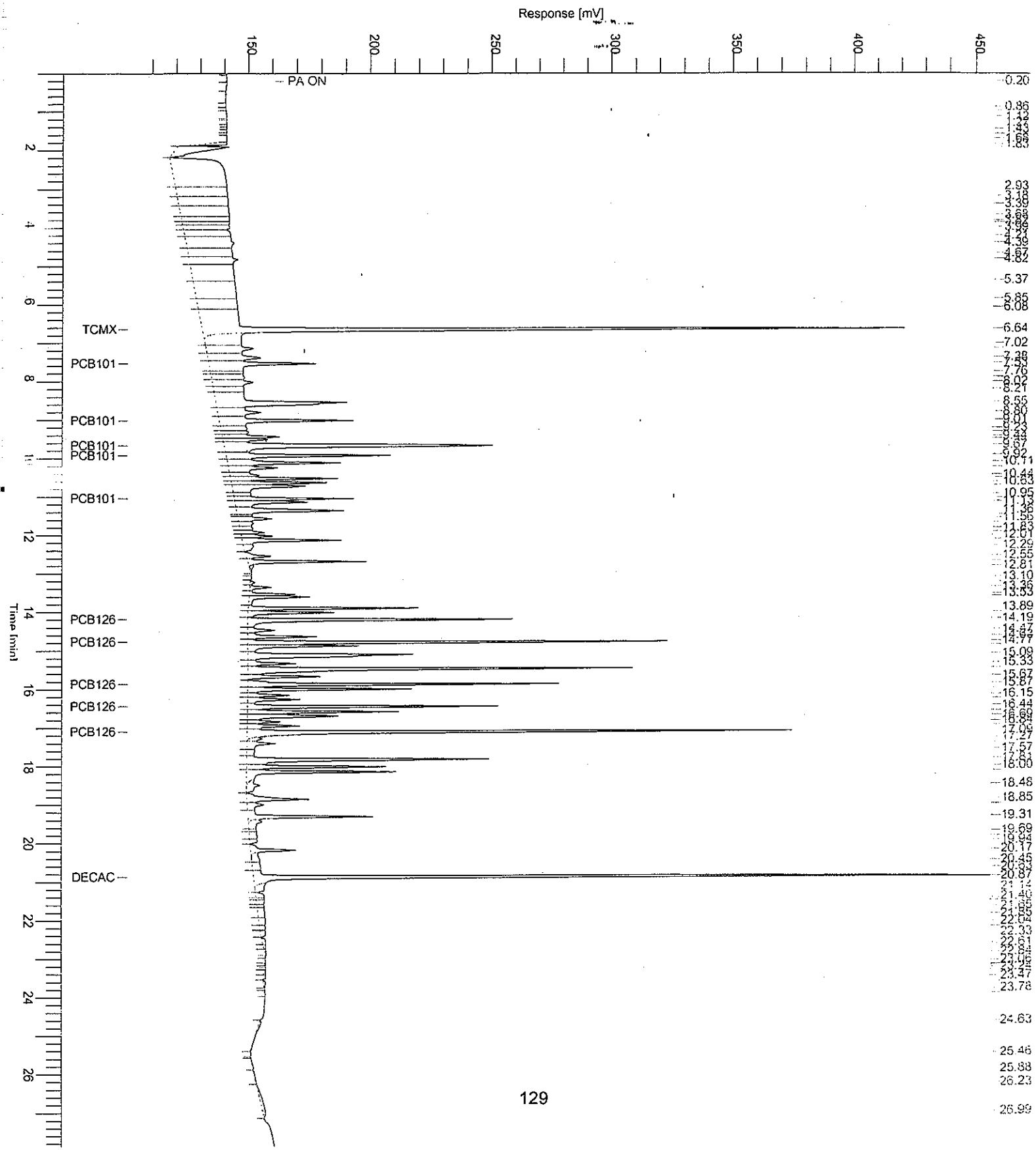
GC 06 Rtx-5

Sample Name : ical,04ws0963,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\CHb\215b017.raw
Date : 8/3/04 9:59:14 AM
Method : Time of Injection: 8/2/04 11:52:44 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 99.15 mV High Point : 457.55 mV
Plot Offset: 99.15 mV Plot Scale: 358.4 mV



GC 06 Rtx-5

Sample Name : ical,04ws0963,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\CHb\215b017
Date : 8/3/04 9:36:00 AM
Method : gc06fsa1ul Time of Injection: 8/2/04 11:52:44 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 100.04 mV High Point : 457.55 mV
Scale Factor: 1.0 Plot Offset: 100.04 mV Plot Scale: 357.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0964,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 8/3/04 10:21:38 AM
Data Acquisition Time : 8/3/04 12:25:57 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a018p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	1092893.25	122.74	1.0000	1	122.74	24.55
Aroclor-1016	11.187	990915.87	608.15	1.0000	1	608.15	121.63
Aroclor-1260	18.667	1590810.64	559.61	1.0000	1	559.61	111.92
Decachlorobiphenyl	22.013	911065.75	99.32	1.0000	1	99.32	19.86
		4585685.51	1389.81			1389.81	277.96

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.953	131010.09	626.65	1.0000	1	626.65	125.33
PCB1016#2	9.931	238757.22	568.02	1.0000	1	568.02	113.60
PCB1016#3	11.187	275724.20	604.58	1.0000	1	604.58	120.92
PCB1016#4	11.530	196829.44	686.54	1.0000	1	686.54	137.31
PCB1016#5	12.590	148594.92	577.64	1.0000	1	577.64	115.53
		990915.87	3063.44			3063.44	612.69

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.658	258220.05	527.97	1.0000	1	527.97	105.59
PCB1260#2	16.333	409737.15	534.08	1.0000	1	534.08	106.82
PCB1260#3	17.306	222979.16	572.26	1.0000	1	572.26	114.45
PCB1260#4	17.916	213249.29	565.22	1.0000	1	565.22	113.04
PCB1260#5	18.667	486625.00	593.80	1.0000	1	593.80	118.76
		1590810.64	2793.33			2793.33	558.67

MG 8/3/04

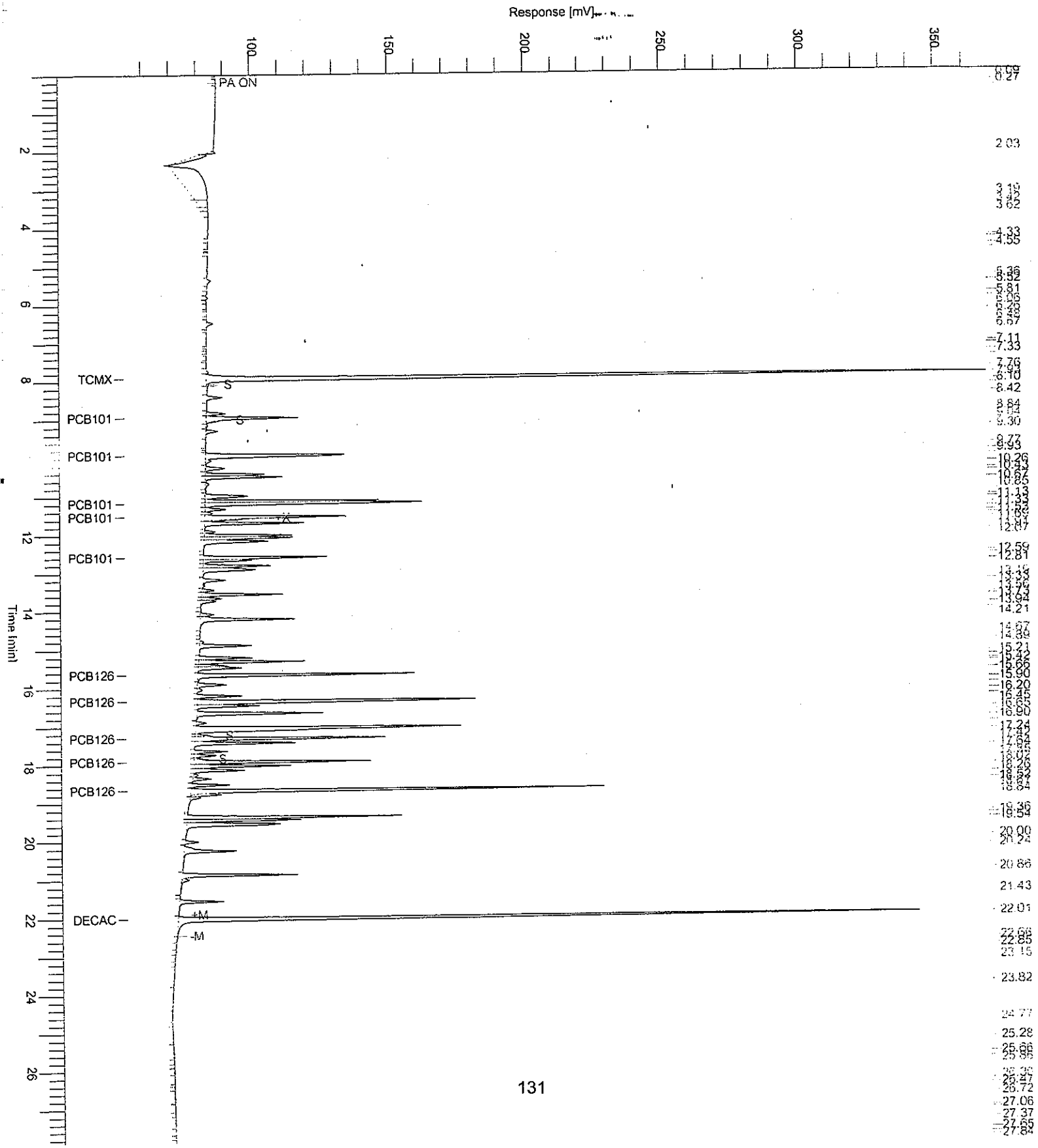
CW 8/5/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a018p.TX0

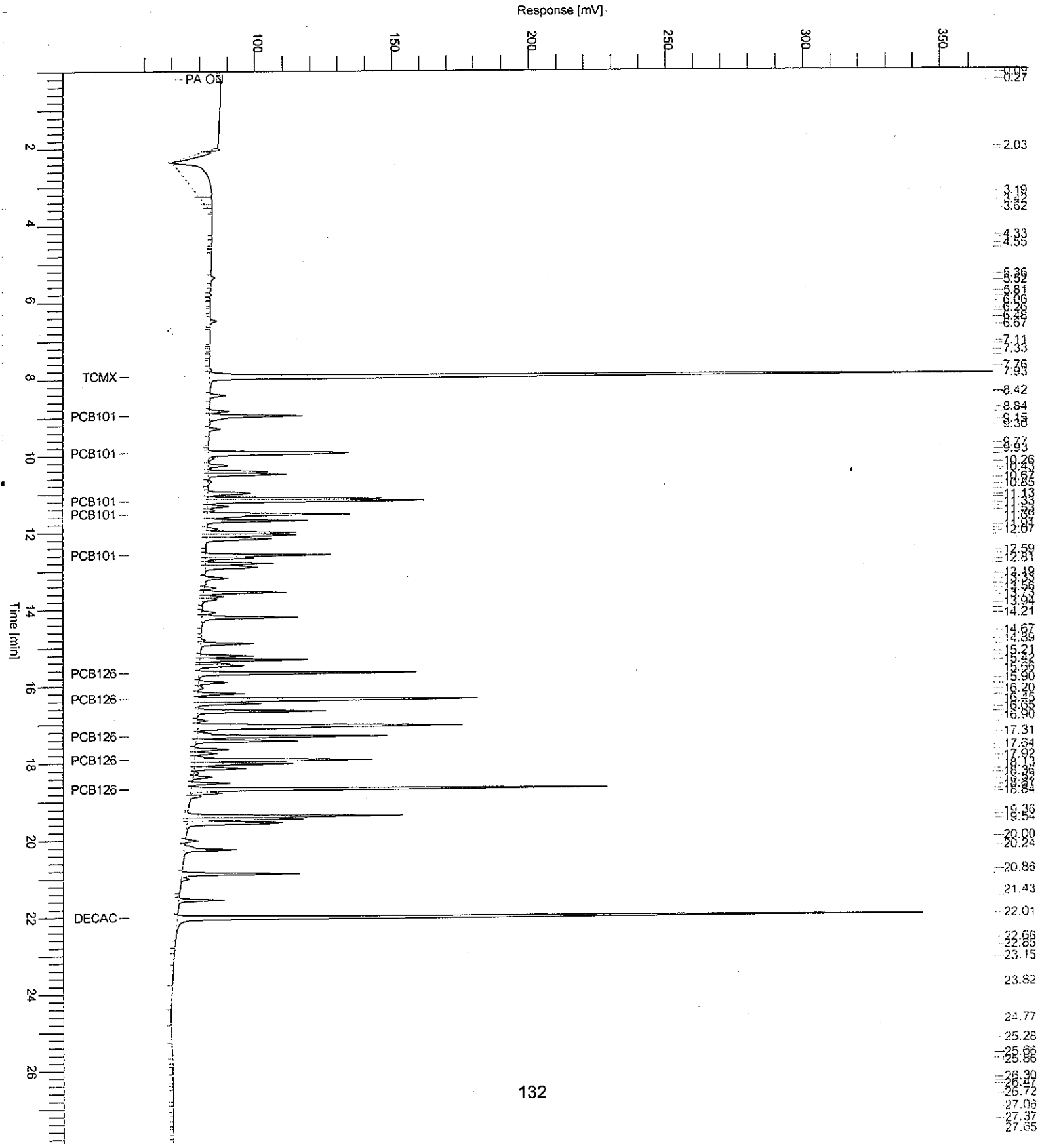
GC 06 Rtx-CLPesticides

ımple Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
eName : G:\gc06\CHa\215a018.raw
ıte : 8/3/04 10:21:42 AM
ethod :
Time of Injection: 8/3/04 12:25:57 AM
art Time : 0.00 min End Time : 27.88 min Low Point : 53.54 mV High Point : 369.08 mV
ot Offset: 53.54 mV Plot Scale: 315.5 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0964,pcb750_150 Sample #: level 6
FileName : G:\gc06\CHa\215a018.raw
Date : 8/3/04 9:36:51 AM
Method : gc06fsa1ul Time of Injection: 8/3/04 12:25:57 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 54.33 mV High Point : 369.08 mV
Scale Factor: 1.0 Plot Offset: 54.33 mV Plot Scale: 314.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0964,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 8/3/04 10:00:32 AM
Data Acquisition Time : 8/3/04 12:25:57 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b018p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	1275052.07	117.51	1.0000	1	117.51	23.50
Aroclor-1016	9.667	1343880.57	537.89	1.0000	1	537.89	107.58
Aroclor-1260	17.093	2898141.34	556.94	1.0000	1	556.94	111.39
Decachlorobiphenyl	20.867	1156319.05	99.81	1.0000	1	99.81	19.96
		6673393.03	1312.14			1312.14	262.43

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	137689.92	553.47	1.0000	1	553.47	110.69
PCB1016#2	9.013	179189.30	539.44	1.0000	1	539.44	107.89
PCB1016#3	9.667	604549.25	535.80	1.0000	1	535.80	107.16
PCB1016#4	9.920	250027.67	530.09	1.0000	1	530.09	106.02
PCB1016#5	11.040	172424.43	543.11	1.0000	1	543.11	108.62
		1343880.57	2701.91			2701.91	540.38

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.187	467394.27	586.16	1.0000	1	586.16	117.23
PCB1260#2	14.773	664975.89	553.48	1.0000	1	553.48	110.70
PCB1260#3	15.867	466661.26	534.81	1.0000	1	534.81	106.96
PCB1260#4	16.440	374448.24	550.10	1.0000	1	550.10	110.02
PCB1260#5	17.093	924661.68	559.86	1.0000	1	559.86	111.97
		2898141.34	2784.40			2784.40	556.88

8/3/04

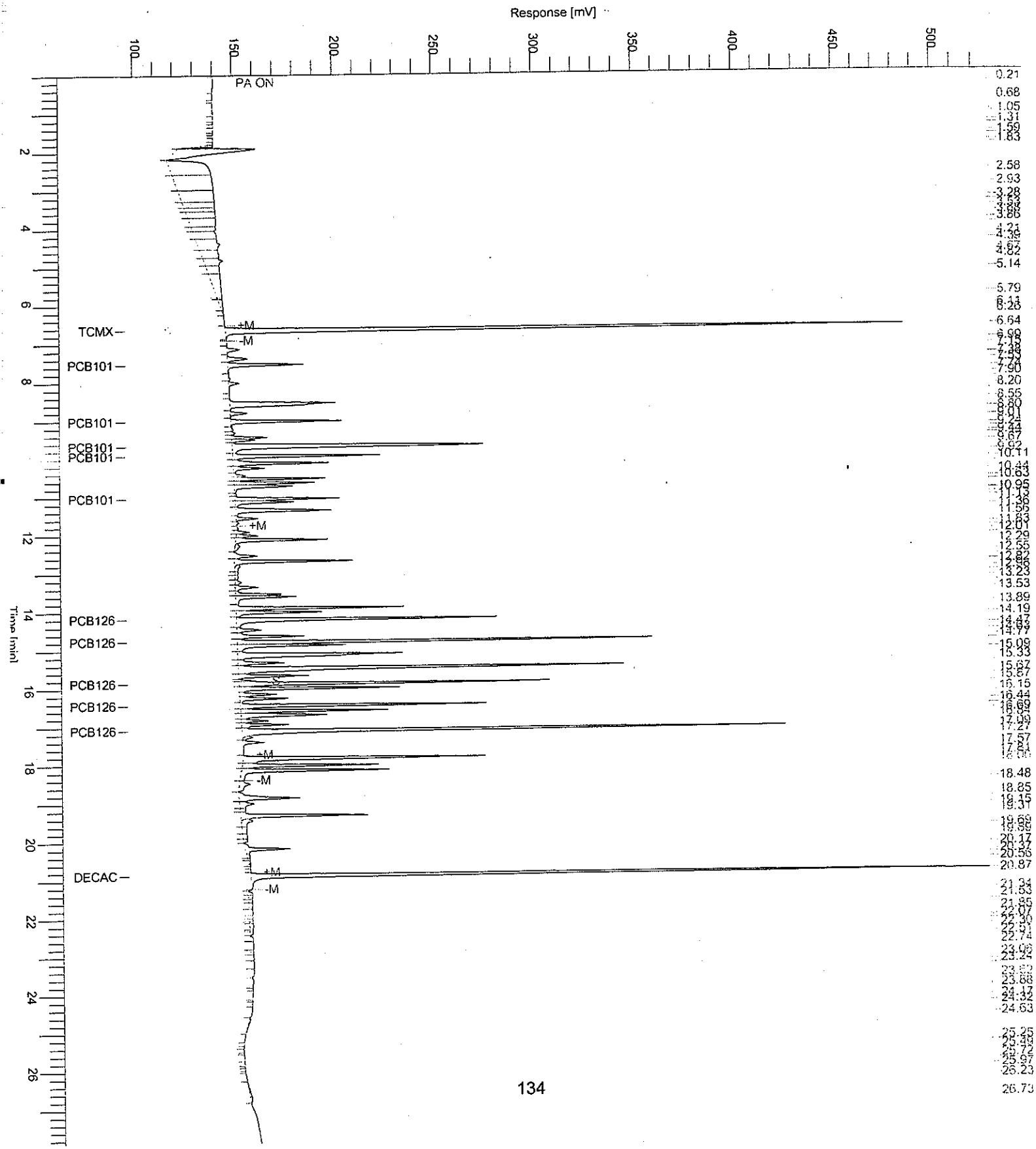
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\215b018p.TX0

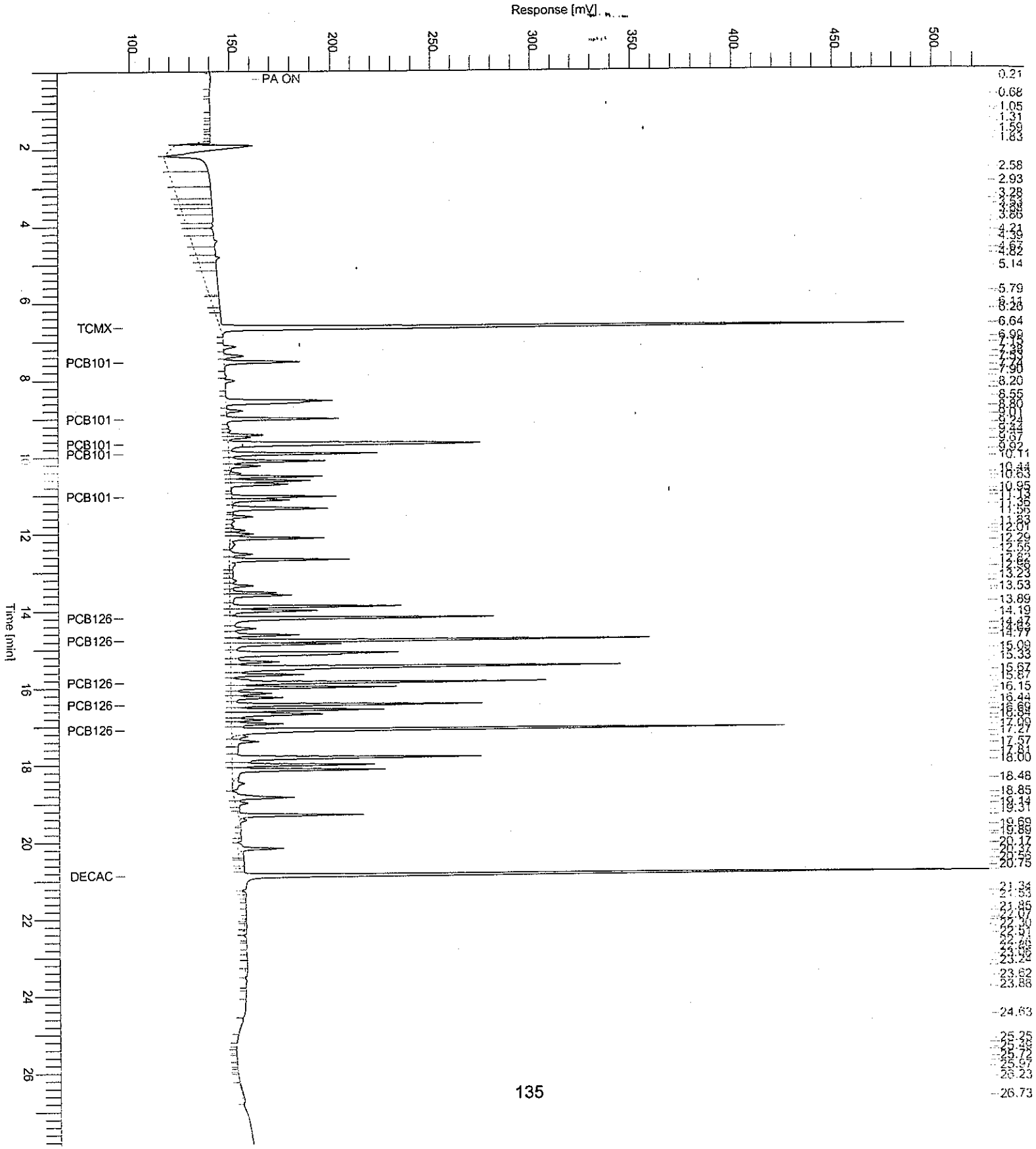
GC 06 Rtx-5

ımple Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
eName : G:\gc06\CHb\215b018.raw
ıte : 8/3/04 10:00:37 AM
ethod :
Time of Injection: 8/3/04 12:25:57 AM
art Time : 0.00 min End Time : 27.88 min Low Point : 95.68 mV High Point : 528.40 mV
ot Offset: 95.68 mV Plot Scale: 432.7 mV



GC 06 Rtx-5

Sample Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
FileName : G:\gc06\CHb\215b018
Date : 8/3/04 9:36:08 AM
Method : gc06fsa1ul Time of Injection: 8/3/04 12:25:57 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 96.77 mV High Point : 528.40 mV
Scale Factor: 1.0 Plot Offset: 96.77 mV Plot Scale: 431.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0967,pcb1K_200
Instrument Name : gc06
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 8/3/04 10:23:01 AM
Data Acquisition Time : 8/3/04 12:59:02 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a019p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	1631332.56	183.21	1.0000	1	183.21	36.64
Aroclor-1016	11.187	1485695.02	911.81	1.0000	1	911.81	182.36
Aroclor-1260	18.667	2493350.87	877.11	1.0000	1	877.11	175.42
Decachlorobiphenyl	22.013	1399899.67	152.60	1.0000	1	152.60	30.52
		7010278.12	2124.72			2124.72	424.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.953	193058.05	923.44	1.0000	1	923.44	184.69
PCB1016#2	9.931	349182.99	830.73	1.0000	1	830.73	166.15
PCB1016#3	11.187	418202.75	916.99	1.0000	1	916.99	183.40
PCB1016#4	11.533	298617.84	1041.58	1.0000	1	1041.58	208.32
PCB1016#5	12.590	226633.39	881.01	1.0000	1	881.01	176.20
		1485695.02	4593.75			4593.75	918.75

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.653	396214.56	810.13	1.0000	1	810.13	162.03
PCB1260#2	16.333	638041.37	831.67	1.0000	1	831.67	166.33
PCB1260#3	17.307	349092.79	895.92	1.0000	1	895.92	179.18
PCB1260#4	17.920	341692.14	905.66	1.0000	1	905.66	181.13
PCB1260#5	18.667	768310.01	937.52	1.0000	1	937.52	187.50
		2493350.87	4380.90			4380.90	876.18

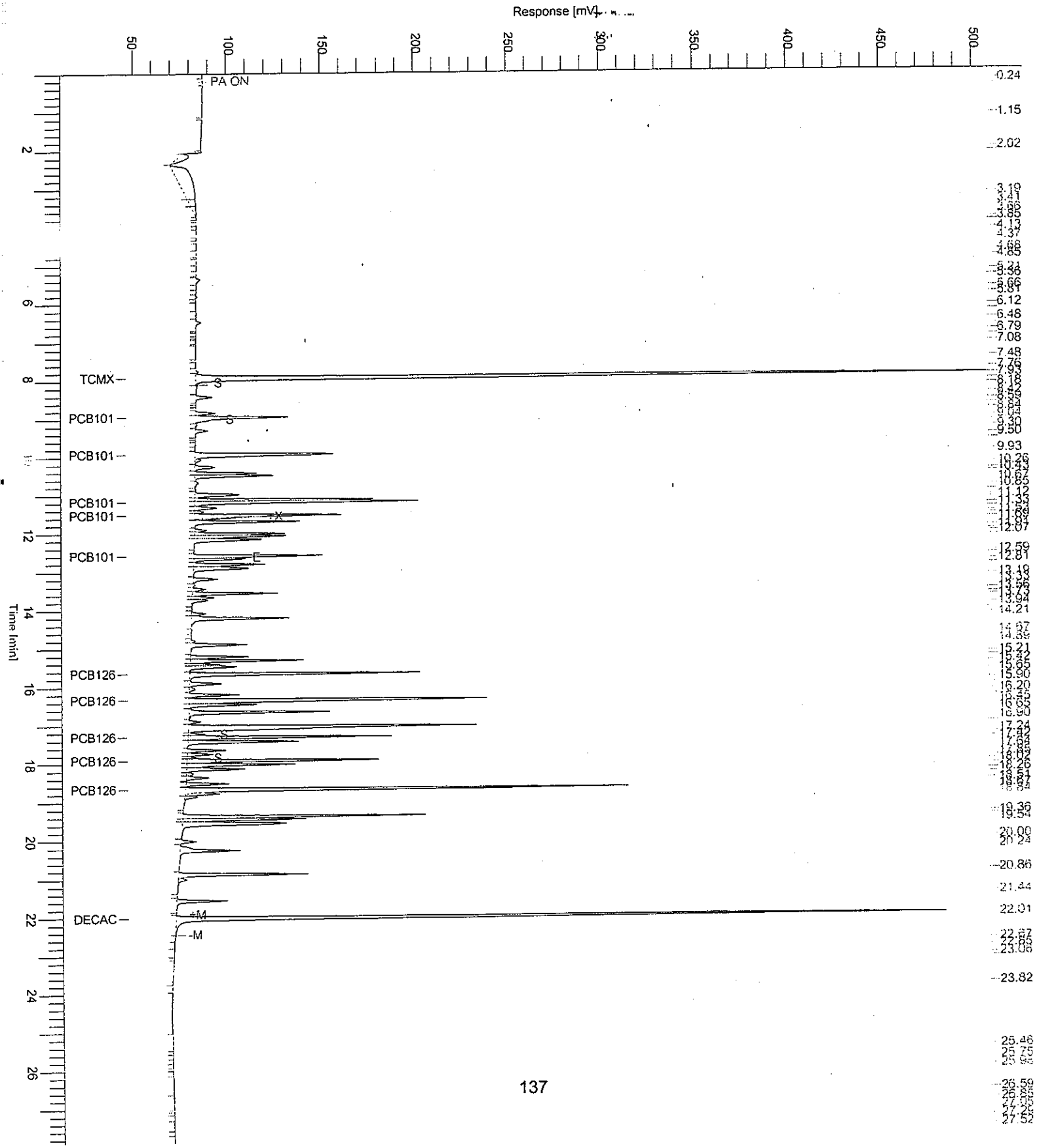
AB 8/3/04
CW 8/3/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a019p.TX0

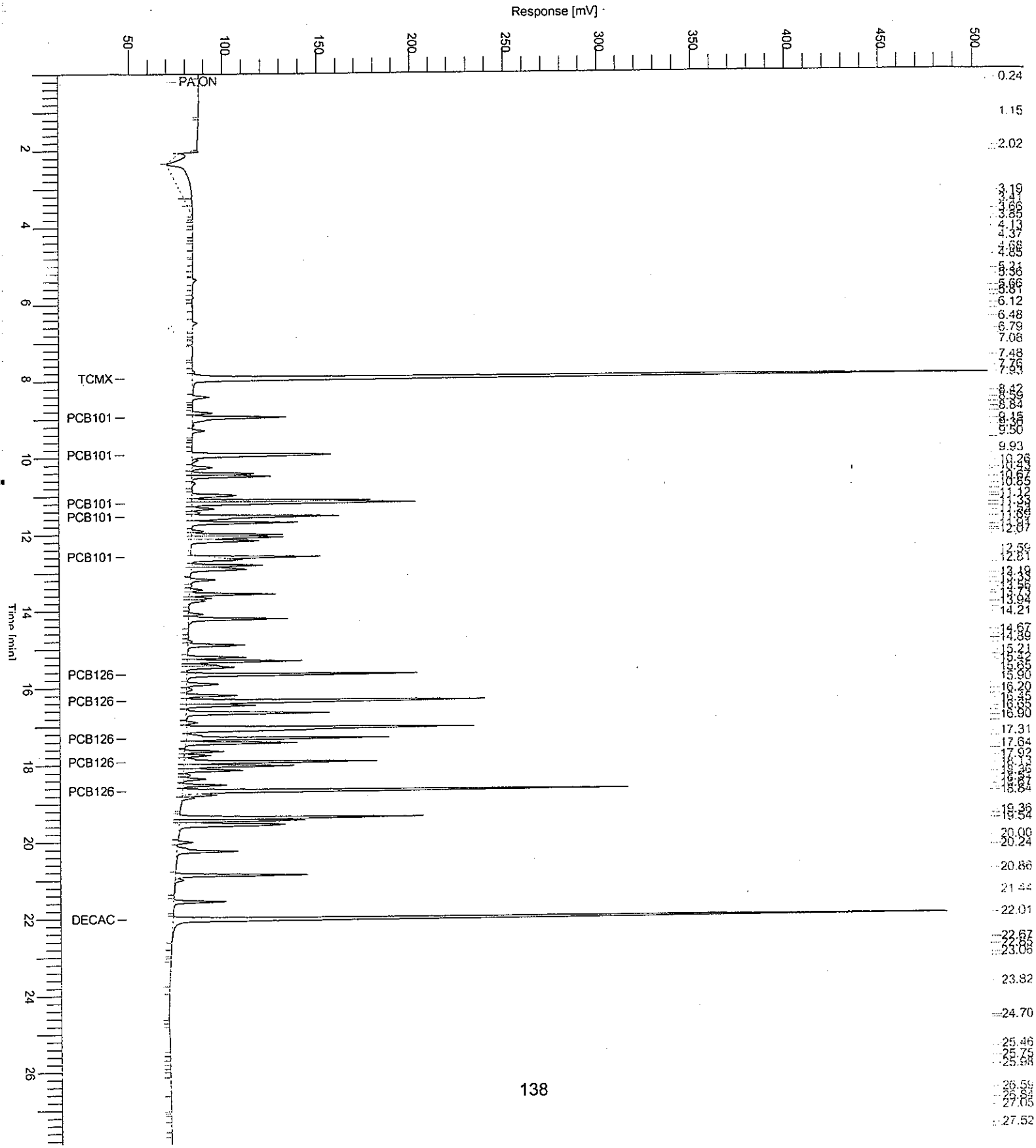
GC 06 Rtx-CLPesticides

ample Name : ical,04ws0967,pcb1K_200 Sample #: level 7 Page 1 of 1
leName : G:\gc06\CHa\215a019.raw
ate : 8/3/04 10:23:06 AM
ethod :
Time of Injection: 8/3/04 12:59:02 AM
lart Time : 0.00 min End Time : 27.88 min Low Point : 46.24 mV High Point : 508.75 mV
lot Offset: 46.24 mV Plot Scale: 462.5 mV



GC 06 Rtx-CLPesticides

ample Name : ical,04ws0967,pcb1K_200 Sample #: level 7
leName : G:\gc06\CHa\215a019.raw
ate : 8/3/04 9:36:57 AM
ethod : gc06fsa1ul Time of Injection: 8/3/04 12:59:02 AM
art Time : 0.00 min End Time : 27.88 min Low Point : 47.40 mV High Point : 508.75 mV
cale Factor: 1.0 Plot Offset: 47.40 mV Plot Scale: 461.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0967,pcb1K_200
Instrument Name : gc06
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 8/3/04 10:01:49 AM
Data Acquisition Time : 8/3/04 12:59:02 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b019p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	1879132.35	173.18	1.0000	1	173.18	34.64
Aroclor-1016	9.667	1999756.96	800.41	1.0000	1	800.41	160.08
Aroclor-1260	17.093	4625650.30	888.91	1.0000	1	888.91	177.78
Decachlorobiphenyl	20.867	1821897.64	157.26	1.0000	1	157.26	31.45
		10326437.24	2019.76			2019.76	403.95

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	206891.92	831.65	1.0000	1	831.65	166.33
PCB1016#2	9.013	270545.52	814.46	1.0000	1	814.46	162.89
PCB1016#3	9.667	890168.28	788.94	1.0000	1	788.94	157.79
PCB1016#4	9.920	369788.47	783.99	1.0000	1	783.99	156.80
PCB1016#5	11.040	262362.78	826.40	1.0000	1	826.40	165.28
		1999756.96	4045.44			4045.44	809.09

8/3/04

CW 8/3/04

Group Report For : Aroclor-1260

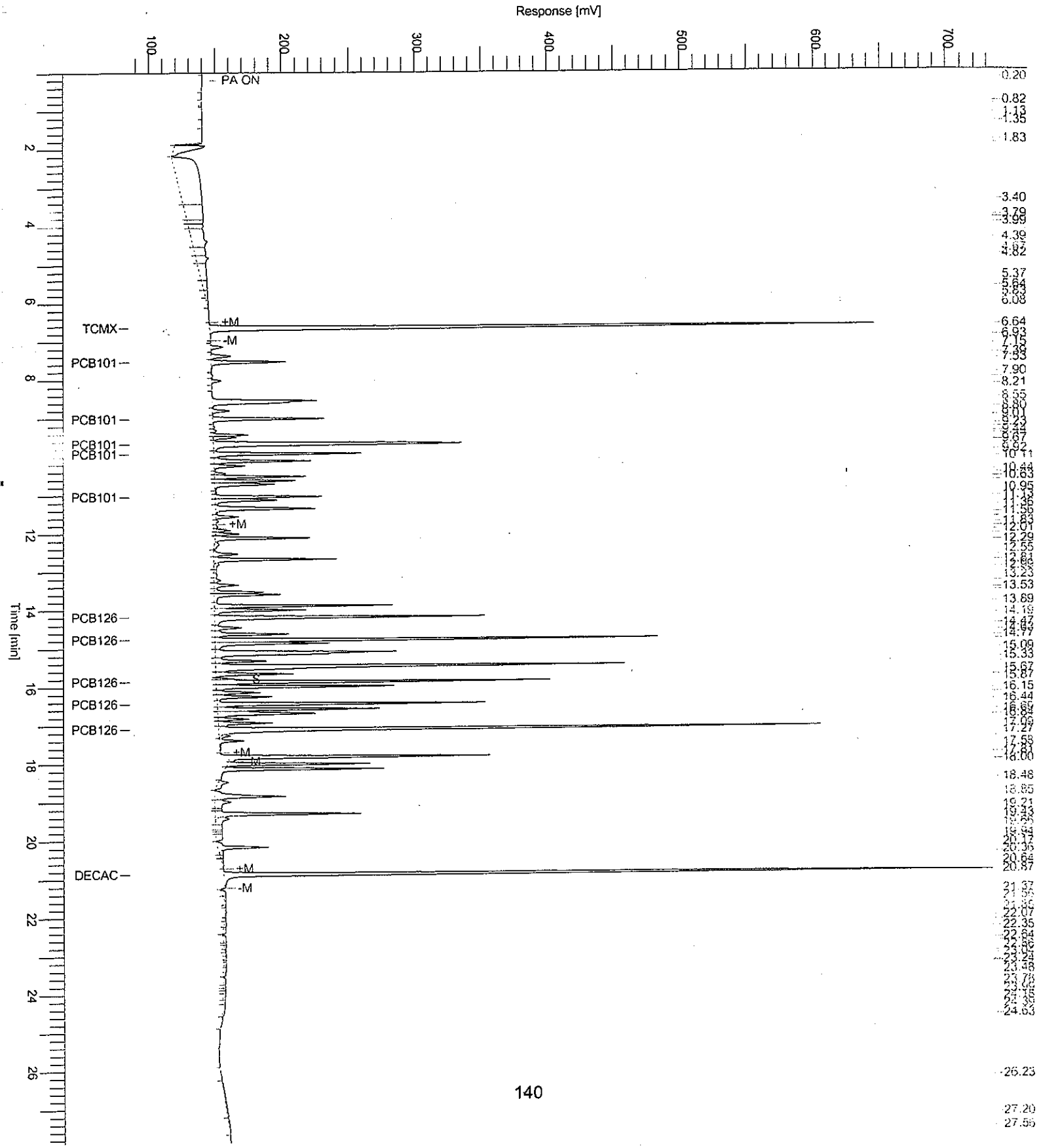
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.187	723588.84	907.45	1.0000	1	907.45	181.49
PCB1260#2	14.773	1041327.26	866.73	1.0000	1	866.73	173.35
PCB1260#3	15.867	753048.00	863.01	1.0000	1	863.01	172.60
PCB1260#4	16.440	605882.81	890.10	1.0000	1	890.10	178.02
PCB1260#5	17.093	1501803.39	909.30	1.0000	1	909.30	181.86
		4625650.30	4436.59			4436.59	887.32

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\215b019p.TX0

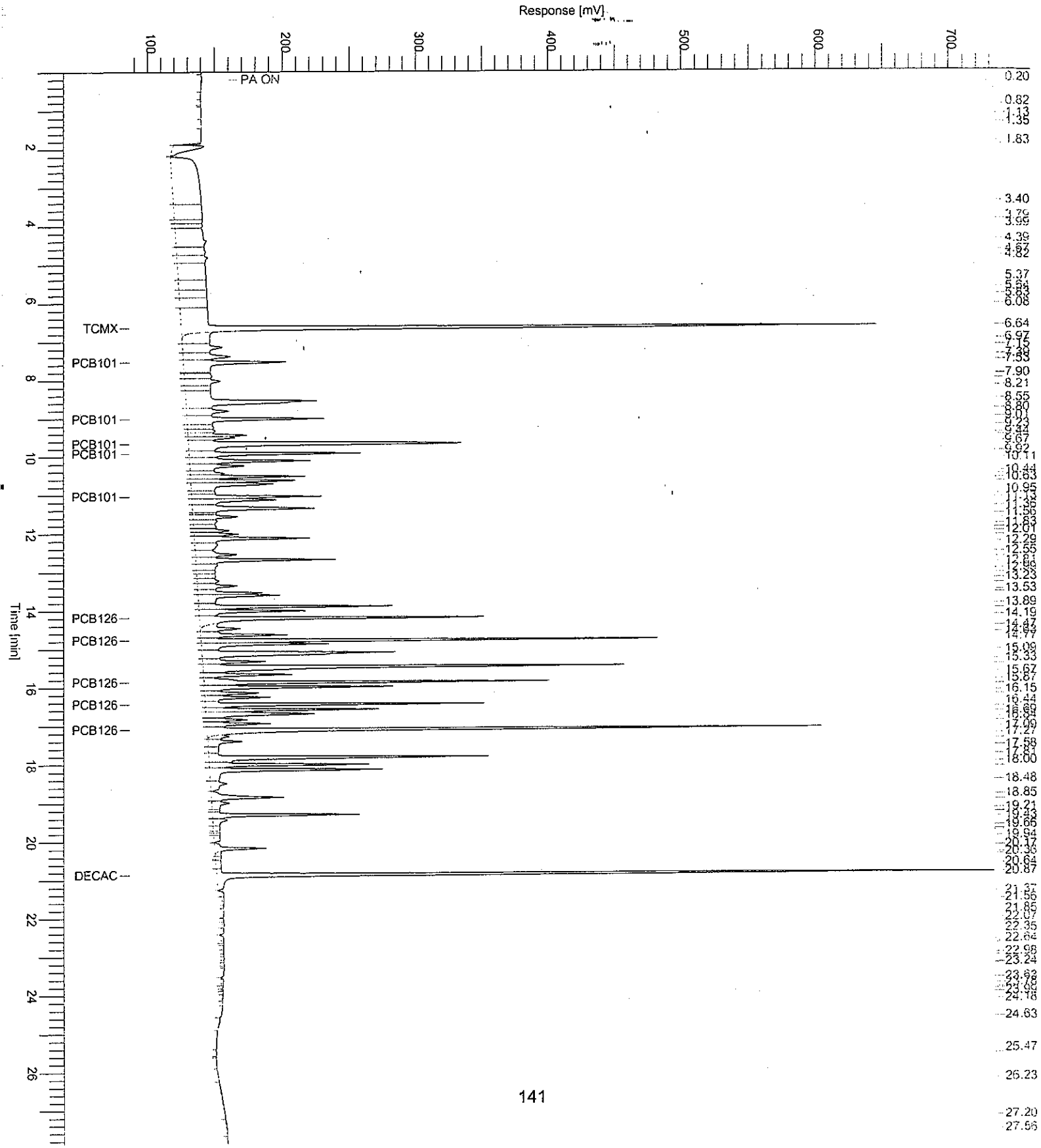
GC 06 Rtx-5

ample Name : ical,04ws0967,pcb1K_200 Sample #: level 7 Page 1 of 1
ileName : G:\gc06\CHb\215b019.raw
ate : 8/3/04 10:01:55 AM
ethod :
Time of Injection: 8/3/04 12:59:02 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 84.84 mV High Point : 734.58 mV
lot Offset: 84.84 mV Plot Scale: 649.7 mV



GC 06 Rtx-5

Sample Name : ical,04ws0967,pcb1K_200 Sample #: level 7 Page 1 of 1
FileName : G:\gc06\CHb\215b019
Date : 8/3/04 9:36:13 AM
Method : gc06fsa1ul Time of Injection: 8/3/04 12:59:02 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 86.46 mV High Point : 734.58 mV
Scale Factor: 1.0 Plot Offset: 86.46 mV Plot Scale: 648.1 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204310220021
Calnum : 204310220001
Standards: 04WS1303

Run Name : accu_1660
Filename : 215_021
Caldate : 02-AUG-2004

Injected : 03-AUG-2004 02:05
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aroclor-1016	A	250.0000	270.8959	pg	8	15	
Aroclor-1260	A	250.0000	267.3647	pg	7	15	
TCMX	A	50.00000	49.31020	pg	-1	15	
Decachlorobiphenyl	A	50.00000	39.07168	pg	-22	15	
Aroclor-1016	B	250.0000	262.7031	pg	5	15	
Aroclor-1260	B	250.0000	265.6052	pg	6	15	
TCMX	B	50.00000	49.60469	pg	-1	15	
Decachlorobiphenyl	B	50.00000	41.04261	pg	-18	15	

CW 8/3/04

Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1303,accu_1660
Instrument Name : gc06
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 8/3/04 1:53:49 PM
Data Acquisition Time : 8/3/04 2:05:21 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\215a021p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	437809.81	49.31	1.0000	1	49.31	9.86
Aroclor-1016	11.180	457634.52	270.22	1.0000	1	270.22	54.04
Aroclor-1260	18.666	759383.76	265.81	1.0000	1	265.81	53.16
Decachlorobiphenyl	22.013	404217.50	39.07	1.0000	1	39.07	7.81
		2059045.58	624.41			624.41	124.88

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.953	59405.27	273.81	1.0000	1	273.81	54.76
PCB1016#2	9.929	111923.56	258.30	1.0000	1	258.30	51.66
PCB1016#3	11.180	127591.88	272.45	1.0000	1	272.45	54.49
PCB1016#4	11.529	90864.41	284.69	1.0000	1	284.69	56.94
PCB1016#5	12.589	67849.41	265.23	1.0000	1	265.23	53.05
		457634.52	1354.48			1354.48	270.90

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.657	130210.43	271.51	1.0000	1	271.51	54.30
PCB1260#2	16.340	199248.37	260.22	1.0000	1	260.22	52.04
PCB1260#3	17.306	108422.97	268.49	1.0000	1	268.49	53.70
PCB1260#4	17.916	98842.33	273.54	1.0000	1	273.54	54.71
PCB1260#5	18.666	222659.66	263.06	1.0000	1	263.06	52.61
		759383.76	1336.82			1336.82	267.36

JB 8/3/04
59405.27
÷
216.96 =
273.81

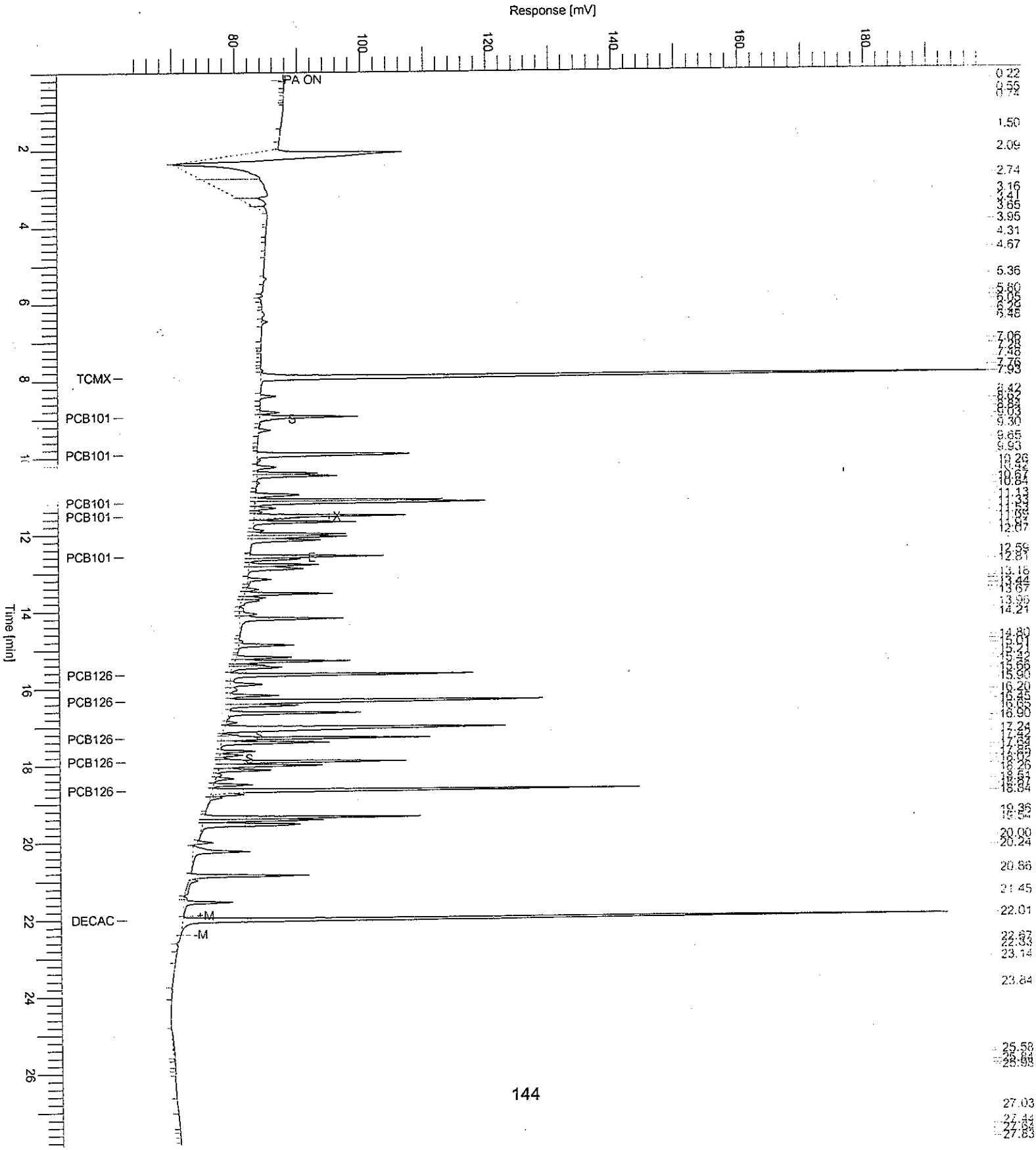
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\215a021p.TX0

aw 8/13/04

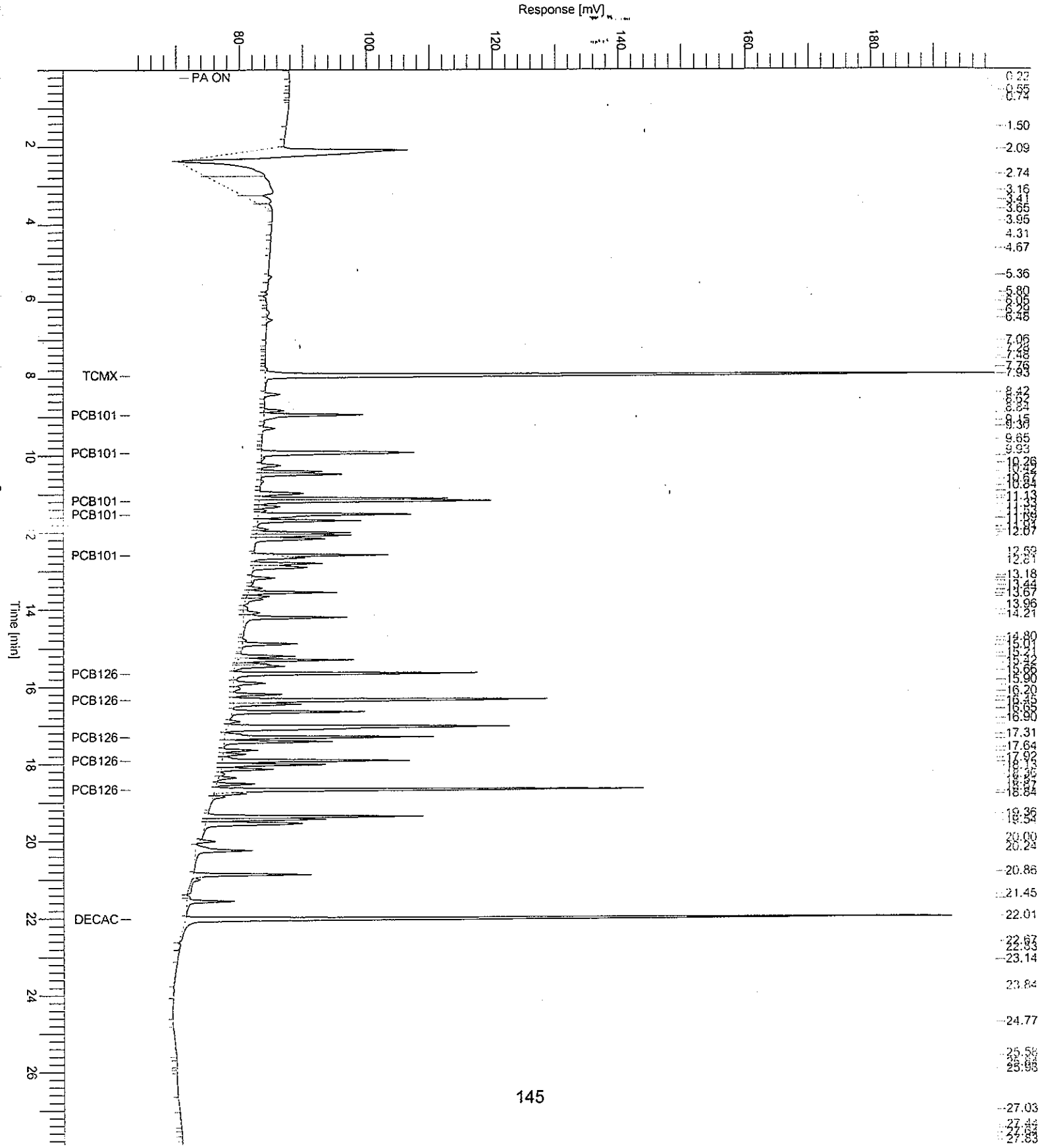
GC 06 Rtx-CLPesticides

Sample Name : icv,04ws1303,accu_1660 Sample #: 250 ug/l
FileName : G:\gc06\CHa\215a021.raw
Date : 8/3/04 1:53:54 PM
Method :
Time of Injection: 8/3/04 2:05:21 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 62.16 mV High Point : 199.64 mV
Plot Offset: 62.16 mV Plot Scale: 137.5 mV



GC 06 Rtx-CLPesticides

Sample Name : icv,04ws1303,accu_1660 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\CHa\215a021.raw
Date : 8/3/04 10:26:45 AM
Method : gc06fsa1ul Time of Injection: 8/3/04 2:05:21 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 62.50 mV High Point : 199.64 mV
Scale Factor: 1.0 Plot Offset: 62.50 mV Plot Scale: 137.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1303,accu_1660
Instrument Name : gc06
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 8/3/04 1:52:34 PM
Data Acquisition Time : 8/3/04 2:05:21 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\215b021p.rst
Sequence File : G:\gc06\files\215.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	513998.98	49.60	1.0000	1	49.60	9.92
Aroclor-1016	9.667	605304.82	261.36	1.0000	1	261.36	52.27
Aroclor-1260	17.093	1319180.88	266.31	1.0000	1	266.31	53.26
Decachlorobiphenyl	20.867	502650.81	41.04	1.0000	1	41.04	8.21
		2941135.49	618.31			618.31	123.66

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	60055.75	263.46	1.0000	1	263.46	52.69
PCB1016#2	9.013	80217.25	270.02	1.0000	1	270.02	54.00
PCB1016#3	9.667	277342.27	259.62	1.0000	1	259.62	51.92
PCB1016#4	9.920	110617.75	257.49	1.0000	1	257.49	51.50
PCB1016#5	11.040	77071.81	262.93	1.0000	1	262.93	52.59
		605304.82	1313.52			1313.52	262.70

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.200	215882.19	274.22	1.0000	1	274.22	54.84
PCB1260#2	14.787	309911.34	264.66	1.0000	1	264.66	52.93
PCB1260#3	15.867	198911.45	249.96	1.0000	1	249.96	49.99
PCB1260#4	16.440	170392.47	267.98	1.0000	1	267.98	53.60
PCB1260#5	17.093	424083.43	271.22	1.0000	1	271.22	54.24
		1319180.88	1328.03			1328.03	265.61

BB 8/3/04

309911.34
÷
1171.0 =
264.655

OW 8/3/04

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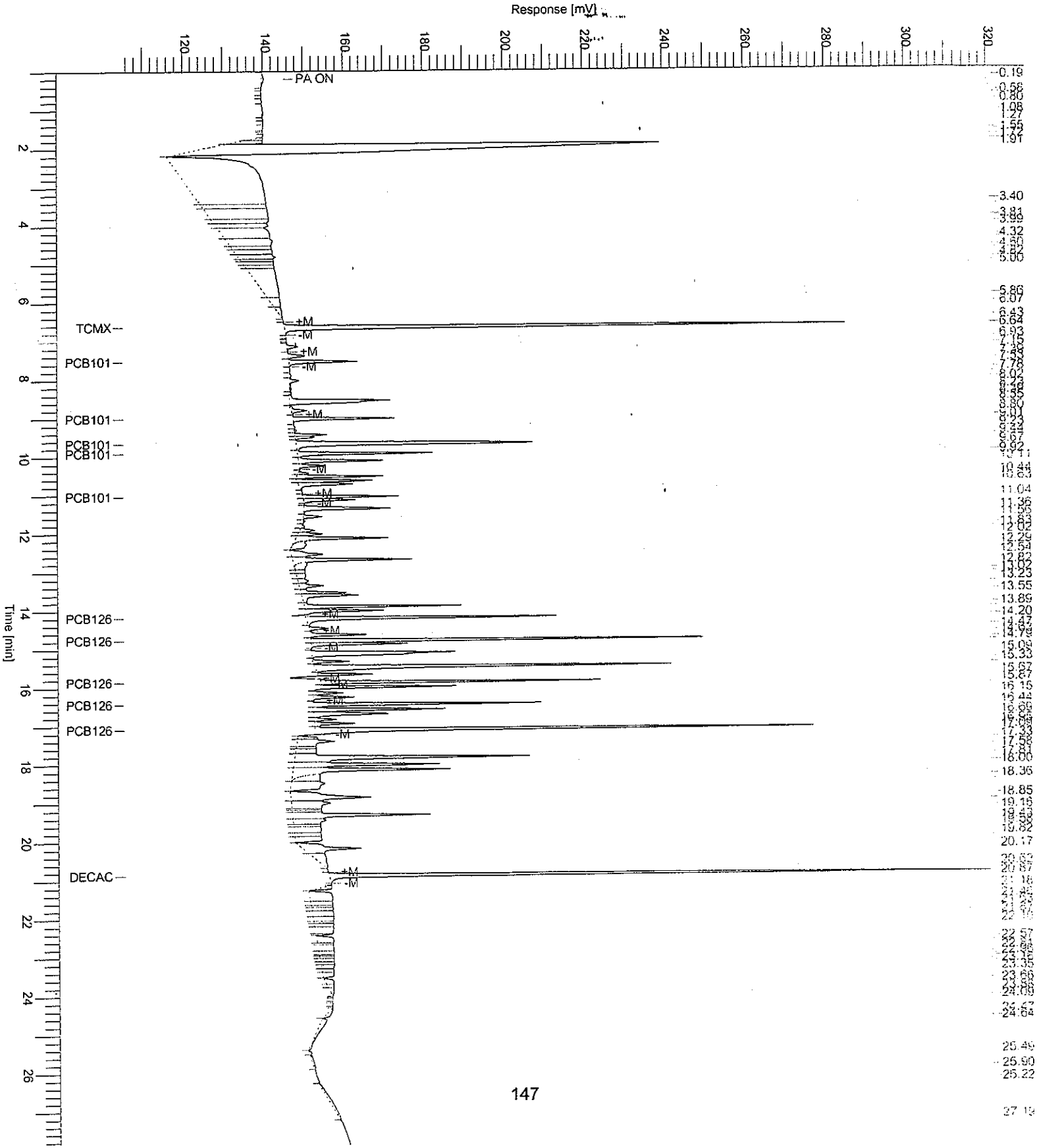
Report stored in ASCII file: G:\gc06\chb\215b021p.TX0

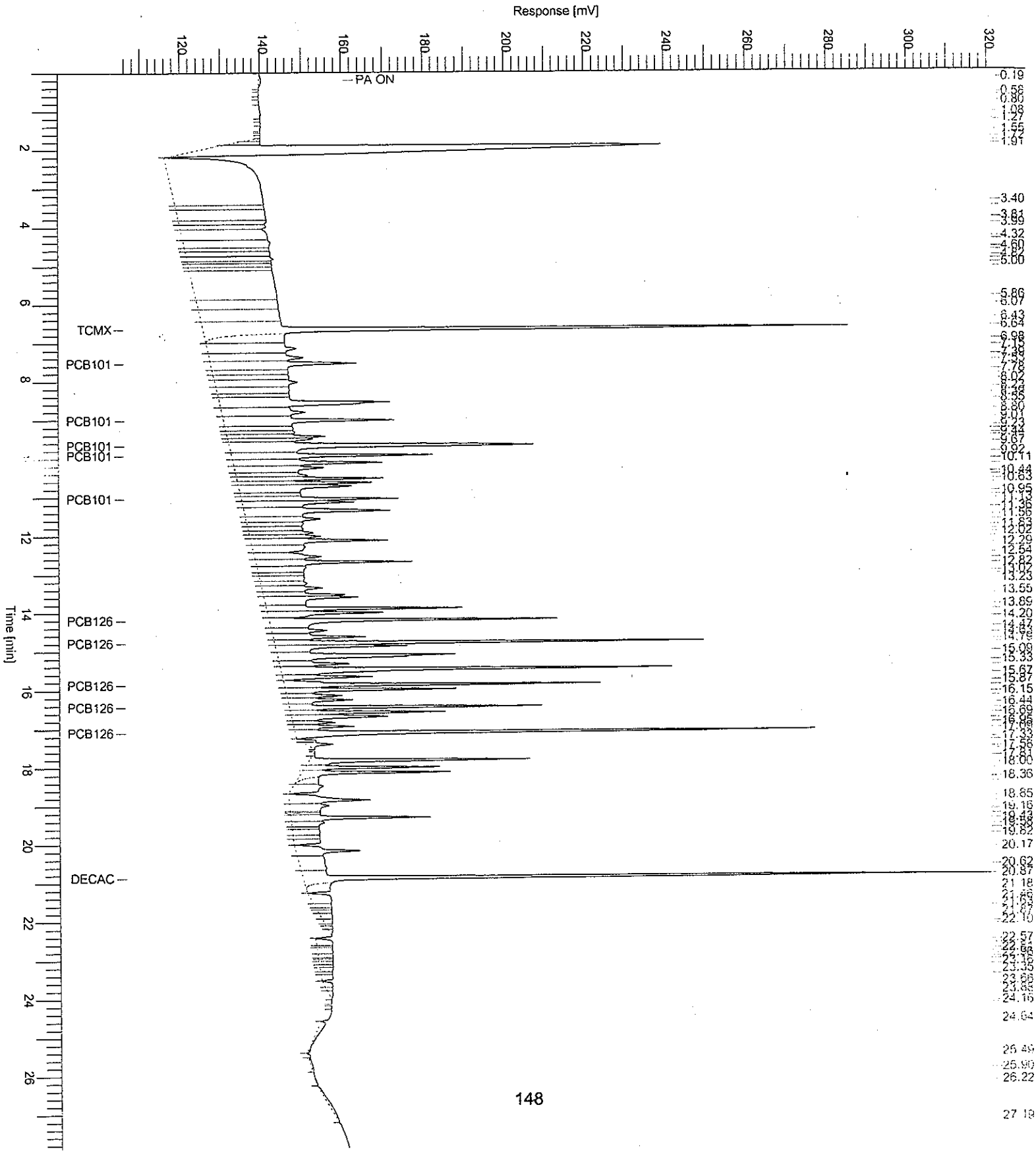
GC 06 Rtx-5

ample Name : icv,04ws1303,accu_1660 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc06\CHb\215b021.raw
ate : 8/3/04 1:52:39 PM
ethod :
Time of Injection: 8/3/04 2:05:21 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 105.36 mV High Point : 320.99 mV
lot Offset: 105.36 mV Plot Scale: 215.6 mV



GC 06 Rtx-5

Sample Name : icv,04ws1303,accu_1660 Sample #: 250 ug/l
FileName : G:\gc06\CHb\215b021
Date : 8/3/04 10:27:01 AM
Method : gc06fsa1ul Time of Injection: 8/3/04 2:05:21 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 105.90 mV High Point : 320.99 mV
Scale Factor: 1.0 Plot Offset: 105.90 mV Plot Scale: 215.1 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204315074031
Calnum : 204310220001
Standards: 04WS0962

Run Name : pcb250_50
Filename : 218_031
Caldate : 02-AUG-2004

IDF : 1.0
Injected : 06-AUG-2004 11:17
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	262.7496	pg	5	15	
Aroclor-1260	A			250.0000	258.7410	pg	3	15	
TCMX	A	8878.7	9641.9	50.00000	54.29812	pg	9	15	
Decachlorobiphenyl	A	10346	11856	50.00000	57.29851	pg	15	15	
Aroclor-1016	B			250.0000	243.2813	pg	-3	15	
Aroclor-1260	B			250.0000	243.1013	pg	-3	15	
TCMX	B	10362	10830	50.00000	52.25729	pg	5	15	
Decachlorobiphenyl	B	12247	13654	50.00000	55.74576	pg	11	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0962,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/31
Sample Amount : 1.000000
Cycle : 31

Date : 8/6/04 11:42:40 AM
Data Acquisition Time : 8/6/04 11:17:26 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a031p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	482095.98	54.30	1.0000	1	54.30	10.86
Aroclor-1016	11.181	445302.60	262.94	1.0000	1	262.94	52.59
Aroclor-1260	18.668	740987.36	259.37	1.0000	1	259.37	51.87
Decachlorobiphenyl	22.013	592783.83	57.30	1.0000	1	57.30	11.46
		2261169.77	633.91			633.91	126.78

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.955	57556.09	265.28	1.0000	1	265.28	53.06
PCB1016#2	9.929	108576.85	250.58	1.0000	1	250.58	50.12
PCB1016#3	11.181	128473.17	274.34	1.0000	1	274.34	54.87
PCB1016#4	11.530	84454.26	264.60	1.0000	1	264.60	52.92
PCB1016#5	12.590	66242.22	258.95	1.0000	1	258.95	51.79
		445302.60	1313.75			1313.75	262.75

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.658	118152.32	246.37	1.0000	1	246.37	49.27
PCB1260#2	16.343	193062.83	252.14	1.0000	1	252.14	50.43
PCB1260#3	17.307	104632.96	259.11	1.0000	1	259.11	51.82
PCB1260#4	17.917	95810.18	265.15	1.0000	1	265.15	53.03
PCB1260#5	18.668	229329.08	270.94	1.0000	1	270.94	54.19
		740987.36	1293.71			1293.71	258.74

PA 8/6/04

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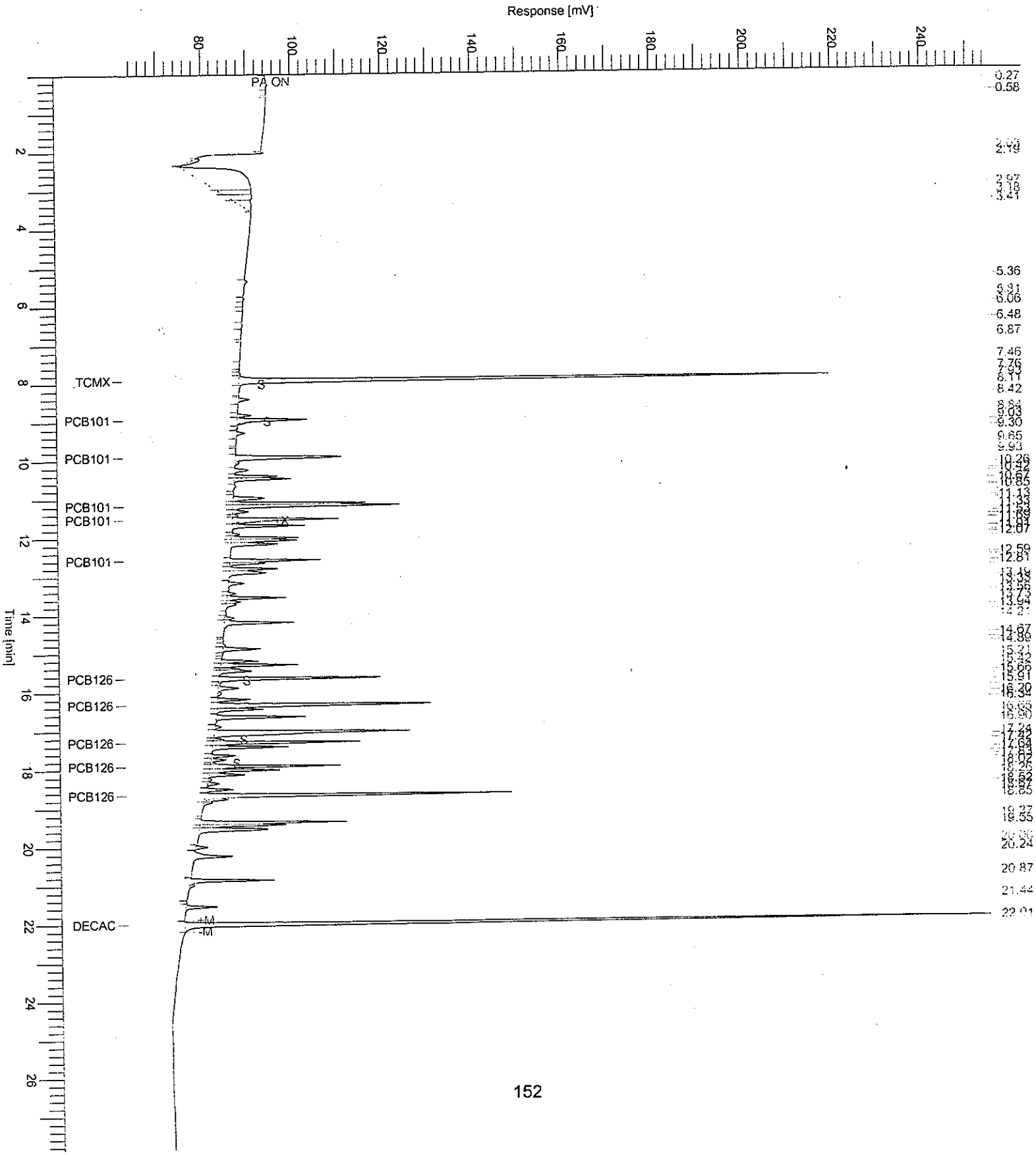
Report stored in ASCII file: G:\gc06\cha\218a031p.TX0

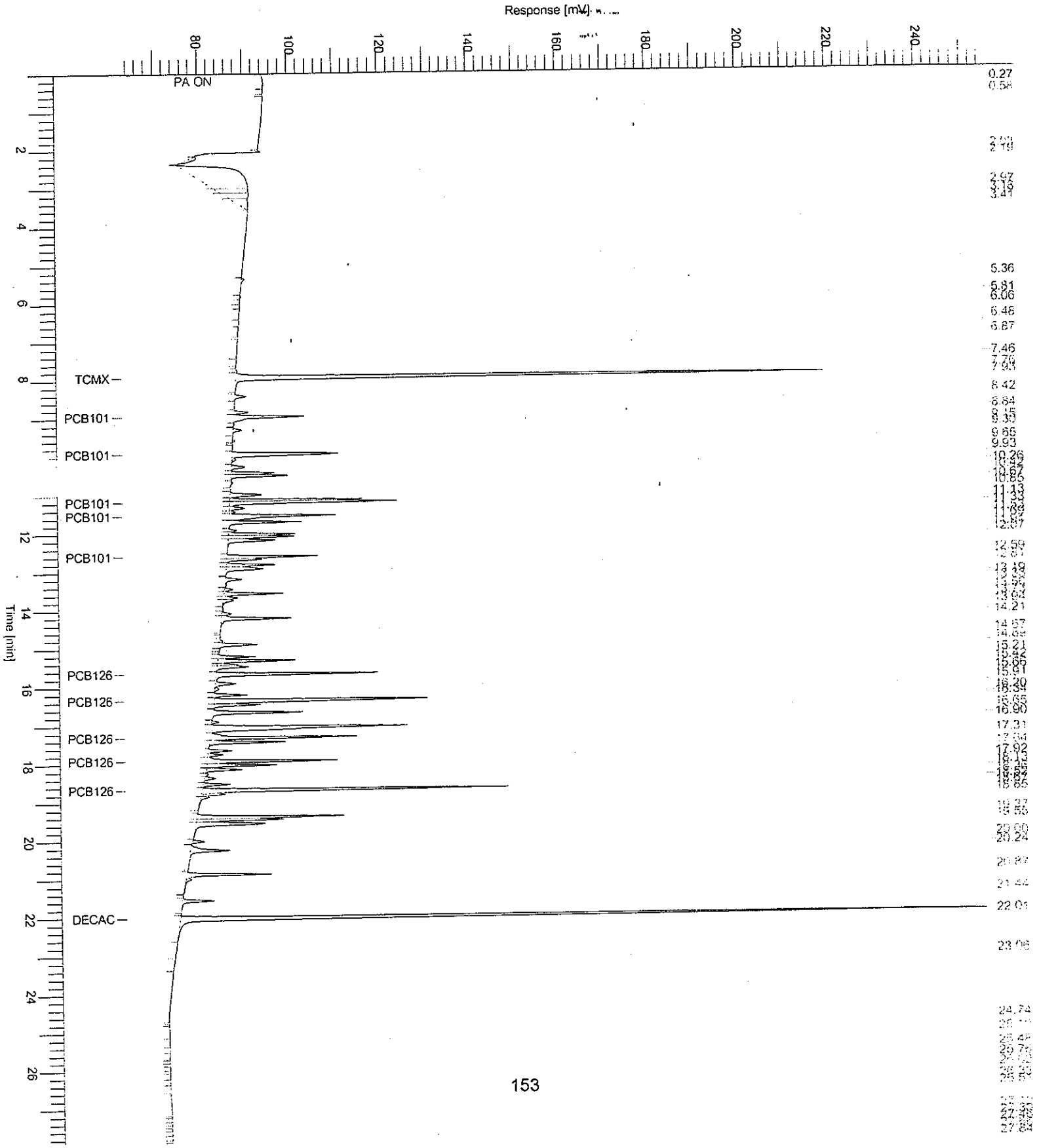
GC 06 Rtx-CLPesticides

ample Name : x,ccv,04ws0962,pcb250_50 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc06\cha\218a031.raw
ate : 8/6/04 11:42:47 AM
lethod :
Time of Injection: 8/6/04 11:17:26 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 62.10 mV High Point : 254.78 mV
lot Offset: 62.10 mV Plot Scale: 192.7 mV



GC 06 Rtx-CLPesticides

ample Name : x,ccv,04ws0962,pcb250_50 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc06\cha\218a031.raw
ate : 8/6/04 11:36:38 AM
lethod : gc06fsa1ul Time of Injection: 8/6/04 11:17:26 AM
lart Time : 0.00 min End Time : 27.88 min Low Point : 62.58 mV High Point : 254.78 mV
cale Factor: 1.0 Plot Offset: 62.58 mV Plot Scale: 192.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0962,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/31
Sample Amount : 1.000000
Cycle : 31

Date : 8/6/04 11:40:25 AM
Data Acquisition Time : 8/6/04 11:17:26 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\218b031p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	541485.03	52.26	1.0000	1	52.26	10.45
Aroclor-1016	9.667	559360.52	241.52	1.0000	1	241.52	48.30
Aroclor-1260	17.107	1200199.03	242.29	1.0000	1	242.29	48.46
Decachlorobiphenyl	20.867	682721.08	55.75	1.0000	1	55.75	11.15
		2983765.67	591.81			591.81	118.36

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	56778.15	249.08	1.0000	1	249.08	49.82
PCB1016#2	9.013	75168.03	253.03	1.0000	1	253.03	50.61
PCB1016#3	9.667	255629.58	239.29	1.0000	1	239.29	47.86
PCB1016#4	9.920	102451.93	238.48	1.0000	1	238.48	47.70
PCB1016#5	11.040	69332.83	236.52	1.0000	1	236.52	47.30
		559360.52	1216.41			1216.41	243.28

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.200	190702.07	242.23	1.0000	1	242.23	48.45
PCB1260#2	14.787	282701.13	241.42	1.0000	1	241.42	48.28
PCB1260#3	15.867	195310.83	245.43	1.0000	1	245.43	49.09
PCB1260#4	16.440	157009.28	246.93	1.0000	1	246.93	49.39
PCB1260#5	17.107	374475.74	239.49	1.0000	1	239.49	47.90
		1200199.03	1215.51			1215.51	243.10

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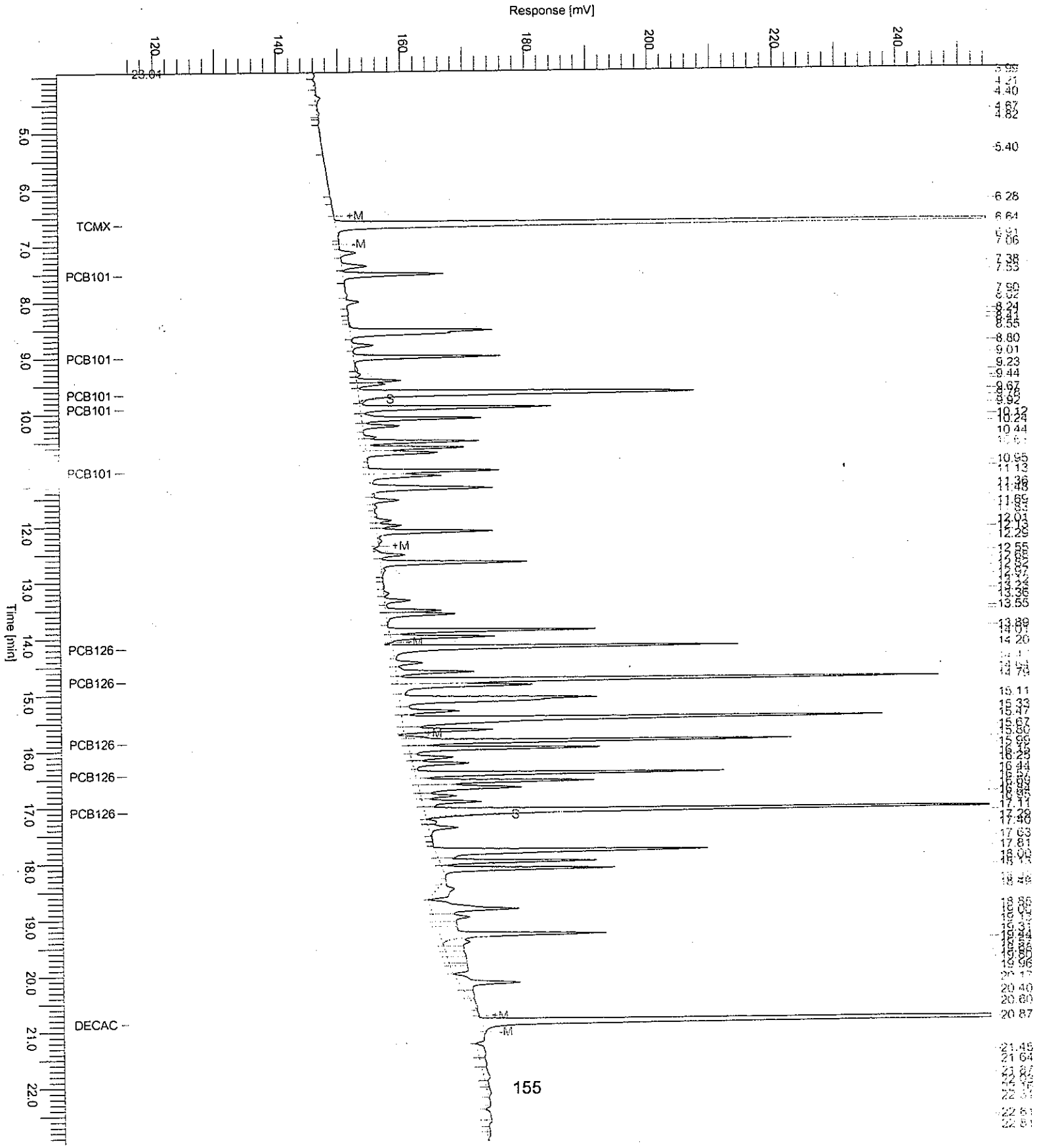
Report stored in ASCII file: G:\gc06\chb\218b031p.TX0

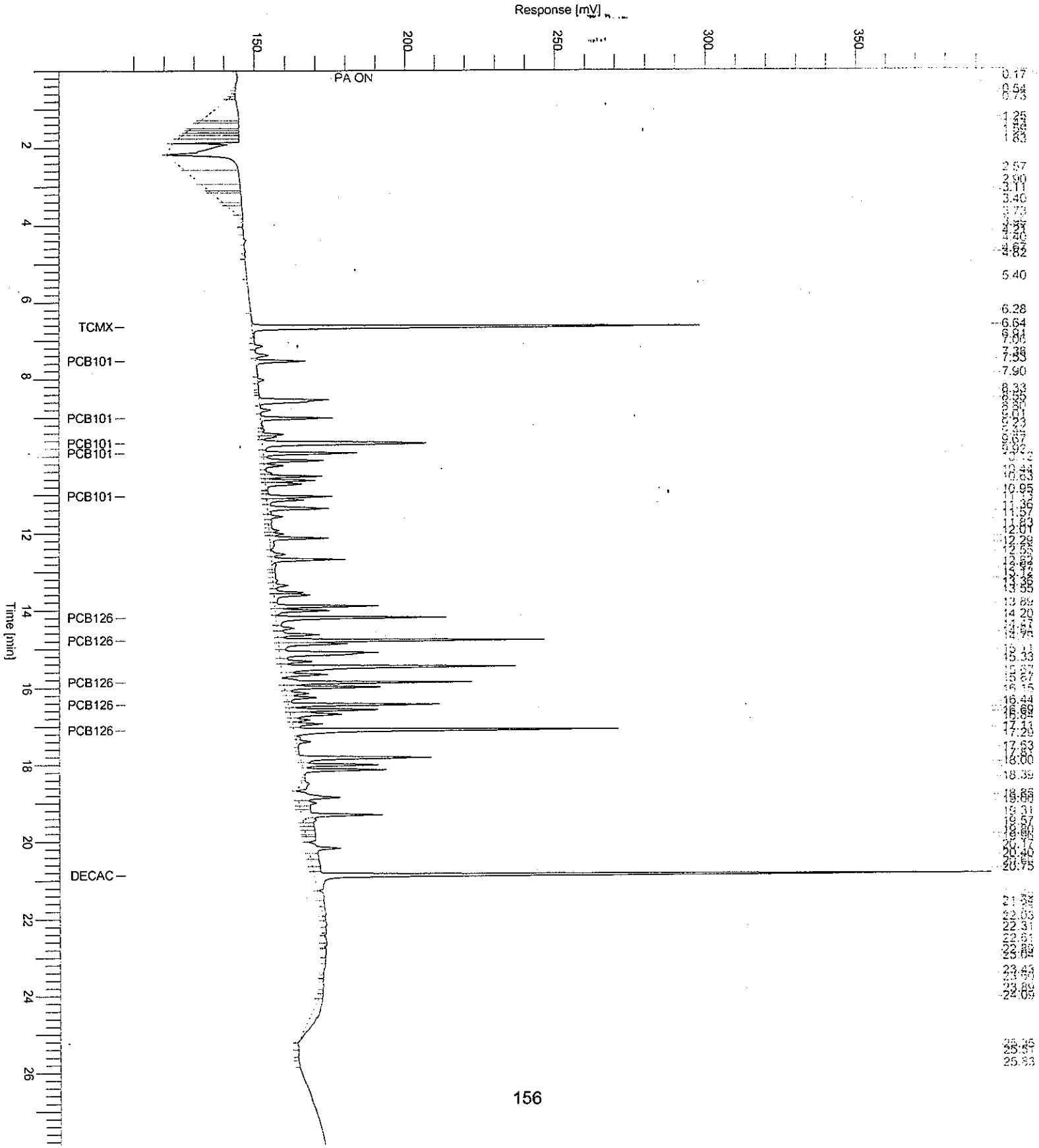
GC 06 Rtx-5

ample Name : x,ccv,04ws0962,pcb250_50 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc06\chb\218b031.raw
ate : 8/6/04 11:40:36 AM
ethod :
Time of Injection: 8/6/04 11:17:26 AM
tart Time : 3.93 min End Time : 23.00 min Low Point : 115.07 mV High Point : 254.41 mV
lot Offset: 115.07 mV Plot Scale: 139.3 mV



GC 06 Rtx-5

Sample Name : x,ccv,04ws0962,pcb250_50 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\chb\218b031
Date : 8/6/04 11:36:45 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 11:17:26 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 107.02 mV High Point : 395.39 mV
Scale Factor: 1.0 Plot Offset: 107.02 mV Plot Scale: 288.4 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204315074047
Calnum : 204310220001
Standards: 04WS0963

Run Name : pcb500_100
Filename : 218_047
Caldate : 02-AUG-2004

IDF : 1.0
Injected : 06-AUG-2004 23:02
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	532.8402	pg	7	15	
Aroclor-1260	A			500.0000	536.7771	pg	7	15	
TCMX	A	8878.7	9331.2	100.0000	105.0970	pg	5	15	
Decachlorobiphenyl	A	10346	8681.1	100.0000	83.91172	pg	-16	15	c-
Aroclor-1016	B			500.0000	482.4728	pg	-4	15	
Aroclor-1260	B			500.0000	510.2568	pg	2	15	
TCMX	B	10362	10417	100.0000	100.5340	pg	1	15	
Decachlorobiphenyl	B	12247	10053	100.0000	82.08120	pg	-18	15	c-

-=low bias c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0963,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/47
Sample Amount : 1.000000
Cycle : 47

Date : 8/9/04 8:36:19 AM
Data Acquisition Time : 8/6/04 11:02:35 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\218a047p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.933	933123.11	105.10	1.0000	1	105.10	21.02
Aroclor-1016	11.187	901619.66	532.38	1.0000	1	532.38	106.48
Aroclor-1260	18.667	1539452.93	538.86	1.0000	1	538.86	107.77
Decachlorobiphenyl	22.013	868111.79	83.91	1.0000	1	83.91	16.78
		4242307.48	1260.25			1260.25	252.05

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.957	113204.92	521.78	1.0000	1	521.78	104.36
PCB1016#2	9.933	211010.96	486.98	1.0000	1	486.98	97.40
PCB1016#3	11.187	259362.55	553.83	1.0000	1	553.83	110.77
PCB1016#4	11.532	182526.46	571.87	1.0000	1	571.87	114.37
PCB1016#5	12.591	135514.77	529.75	1.0000	1	529.75	105.95
		901619.66	2664.20			2664.20	532.84

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.659	240490.51	501.46	1.0000	1	501.46	100.29
PCB1260#2	16.347	398386.67	520.30	1.0000	1	520.30	104.06
PCB1260#3	17.308	218042.67	539.95	1.0000	1	539.95	107.99
PCB1260#4	17.918	199119.25	551.05	1.0000	1	551.05	110.21
PCB1260#5	18.667	483413.83	571.13	1.0000	1	571.13	114.23
		1539452.93	2683.89			2683.89	536.78

FA 8/9/04

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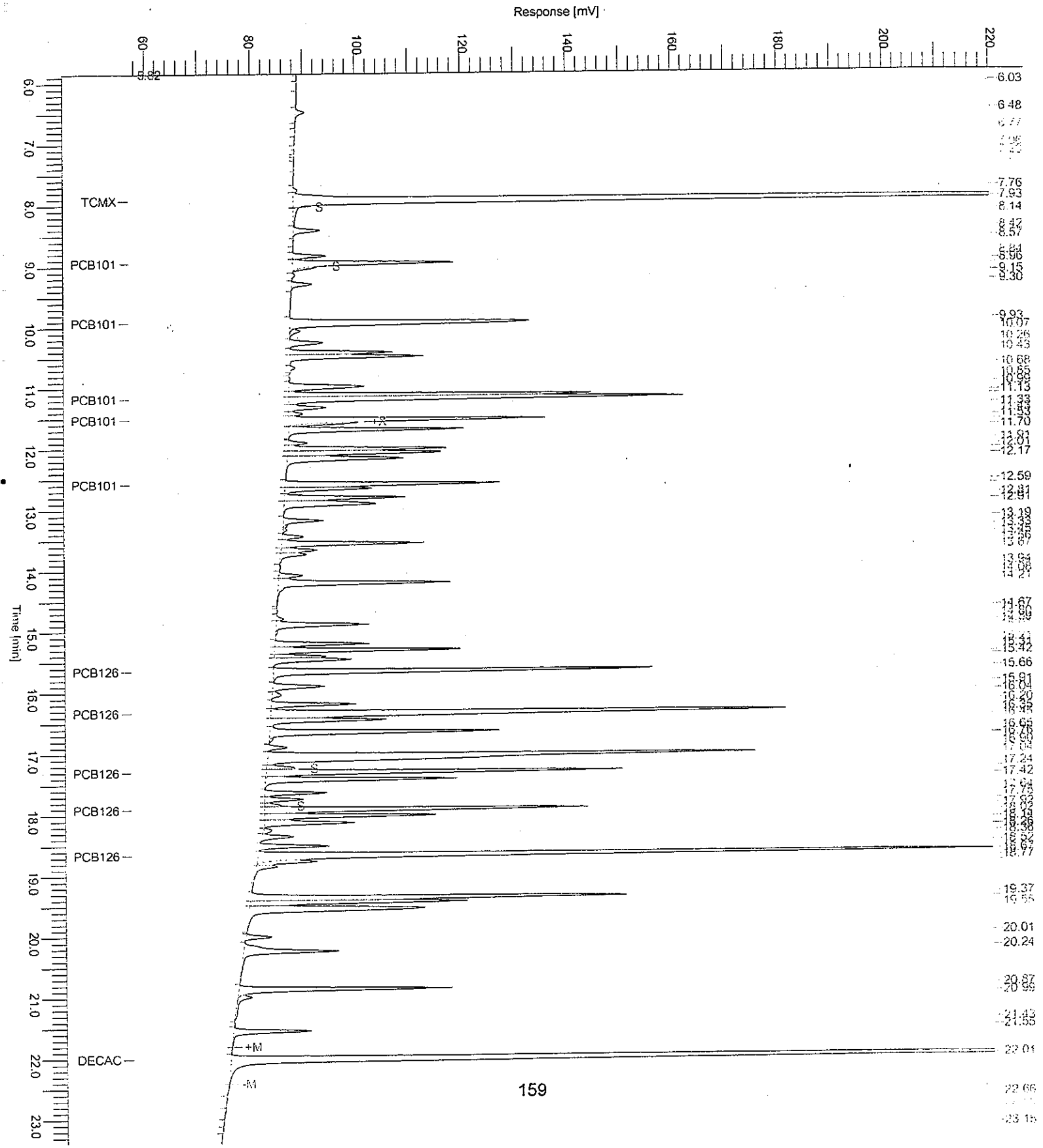
Report stored in ASCII file: G:\gc06\cha\218a047p.TX0

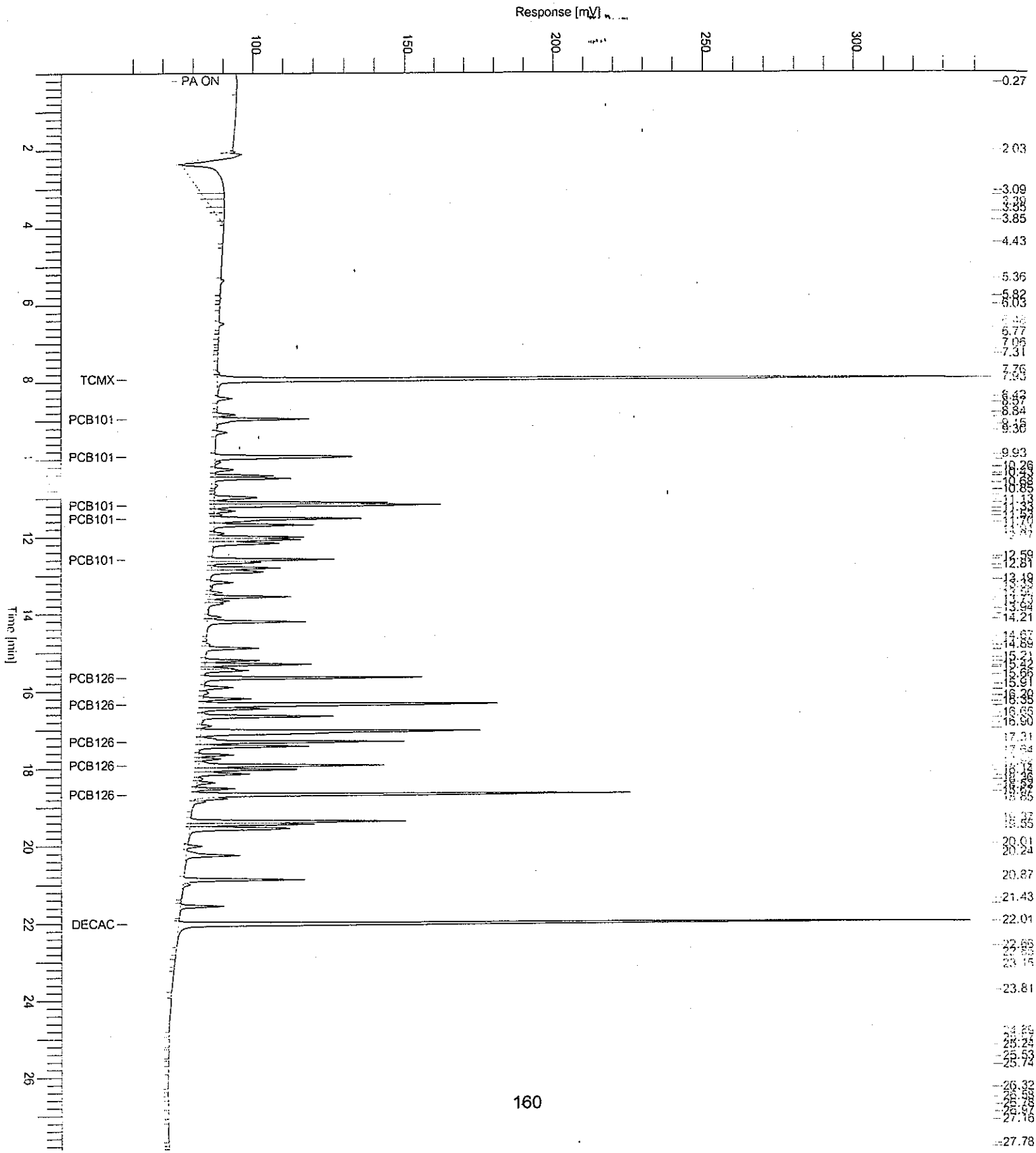
GC 06 Rtx-CLPesticides

ample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
ileName : G:\gc06\cha\218a047.raw
ate : 8/9/04 8:36:25 AM
lethod :
Time of Injection: 8/6/04 11:02:35 PM
tart Time : 5.85 min End Time : 23.40 min Low Point : 56.95 mV High Point : 220.16 mV
lot Offset: 56.95 mV Plot Scale: 163.2 mV



GC 06 Rtx-CLPesticides

Sample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc06\cha\218a047.raw
Date : 8/9/04 8:29:11 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 11:02:35 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 57.67 mV High Point : 345.99 mV
Scale Factor: 1.0 Plot Offset: 57.67 mV Plot Scale: 288.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0963,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/47
Sample Amount : 1.000000
Cycle : 47

Date : 8/9/04 8:39:06 AM
Data Acquisition Time : 8/6/04 11:02:35 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\218b047p.rst
Sequence File : G:\gc06\files\218.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.640	1041723.49	100.53	1.0000	1	100.53	20.11
Aroclor-1016	9.680	1105134.00	477.17	1.0000	1	477.17	95.43
Aroclor-1260	17.107	2517579.81	508.24	1.0000	1	508.24	101.65
Decachlorobiphenyl	20.867	1005252.44	82.08	1.0000	1	82.08	16.42
		5669689.74	1168.02			1168.02	233.60

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.533	109906.81	482.15	1.0000	1	482.15	96.43
PCB1016#2	9.013	146591.06	493.45	1.0000	1	493.45	98.69
PCB1016#3	9.680	499929.62	467.98	1.0000	1	467.98	93.60
PCB1016#4	9.920	203751.87	474.28	1.0000	1	474.28	94.86
PCB1016#5	11.053	144954.64	494.50	1.0000	1	494.50	98.90
		1105134.00	2412.36			2412.36	482.47

Group Report For : Aroclor-1260

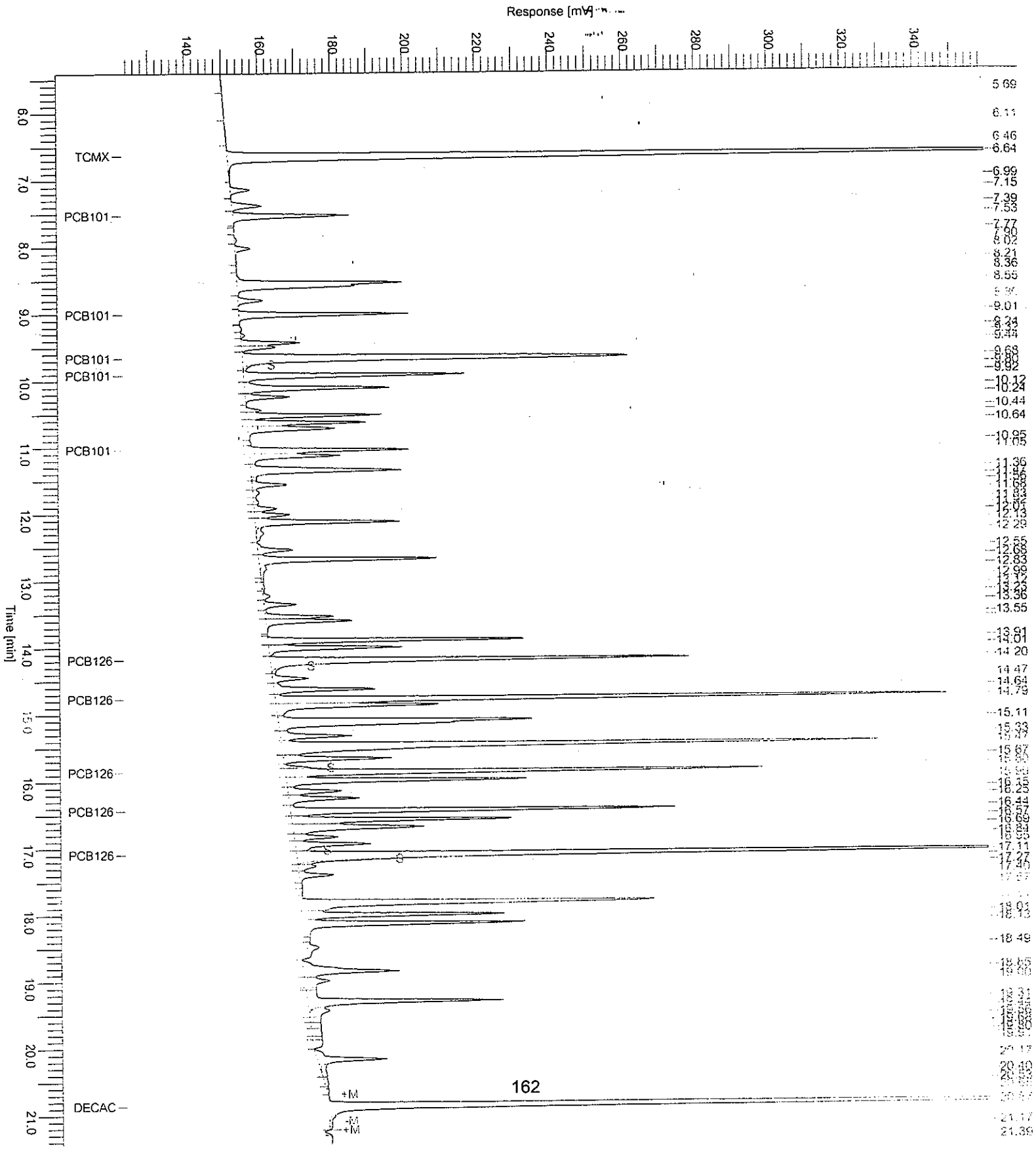
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.200	398713.32	506.45	1.0000	1	506.45	101.29
PCB1260#2	14.787	589165.95	503.13	1.0000	1	503.13	100.63
PCB1260#3	15.867	409574.57	514.69	1.0000	1	514.69	102.94
PCB1260#4	16.440	332901.25	523.56	1.0000	1	523.56	104.71
PCB1260#5	17.107	787224.72	503.46	1.0000	1	503.46	100.69
		2517579.81	2551.28			2551.28	510.26

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\218b047p.TX0

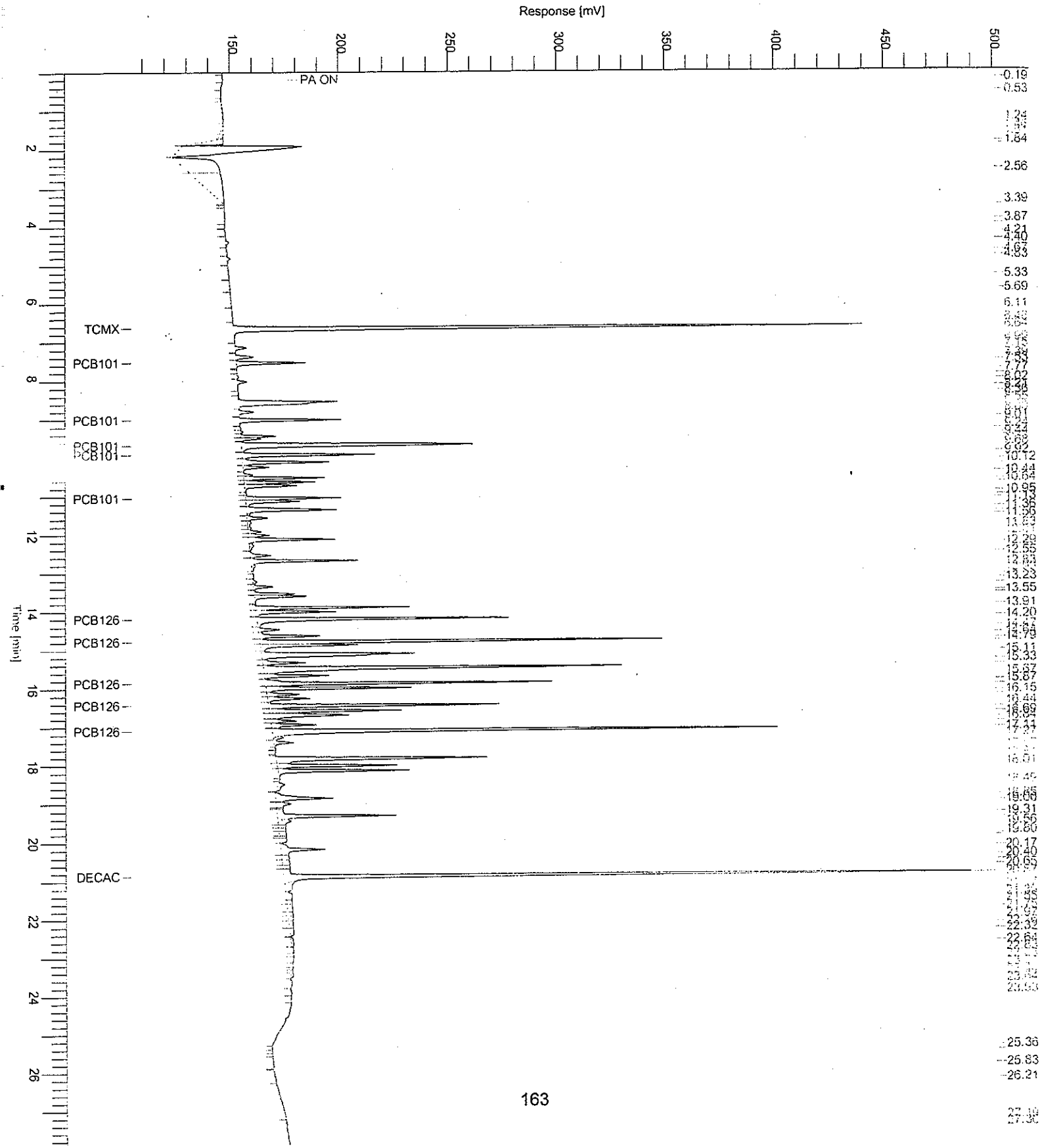
GC 06 Rtx-5

ample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
ileName : G:\gc06\chb\218b047.raw
ate : 8/9/04 8:39:12 AM
lethod :
Time of Injection: 8/6/04 11:02:35 PM
tart Time : 5.41 min End Time : 21.44 min Low Point : 122.73 mV High Point : 359.48 mV
lot Offset: 122.73 mV Plot Scale: 236.7 mV



GC 06 Rtx-5

Sample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc06\chb\218b047
Date : 8/9/04 8:28:56 AM
Method : gc06fsa1ul Time of Injection: 8/6/04 11:02:35 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 104.95 mV High Point : 501.03 mV
Scale Factor: 1.0 Plot Offset: 104.95 mV Plot Scale: 396.1 mV



MOISTURE DATA

Percent Moisture Summary Report

Batch: 93677
Date: 08/12/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173857-001	15.4365	22.8128	22.4789	95	5
173857-002	15.2825	22.2745	21.9924	96	4
173881-025	15.2216	22.6951	22.3870	96	4
173881-026	15.5389	22.8794	22.5438	95	5
173881-028	15.6512	22.8394	22.5465	96	4
173881-029	15.2827	22.6613	22.4821	98	2
173881-030	15.5933	22.3822	22.1381	96	4
173895-001	15.4115	22.8971	22.4930	95	5
173895-002	15.4235	22.3865	21.5073	87	13
173895-003	15.4641	22.5407	21.6587	88	12
173895-004	15.4109	22.6418	20.7659	74	26
173895-005	15.2925	22.9394	21.8503	86	14
173895-006	15.2137	22.3705	21.8531	93	7
QC260907	15.7376	22.6171	22.2460	95	5
of 173857-001			RPD:	0.9%	17.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93677
Date Started: 11-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
173857-001			Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
173857-002			Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
173881-025			Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-026			Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-028			Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-029			Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-030			Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173895-001			Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-002			Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-003			Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-004			Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-005			Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-006			Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
QC260907	SDUP	of 173857-001		Soil	MOISTURE	

8/11/04

#93677

Sample	Bk	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	3	15.3476	—	15.3477	
173881-25	A	80	15.2216	22.6951	22.3870	
26		112	15.5389	22.8794	22.5438	
28		1976	15.6512	22.8364	22.5465	
29		73	15.2827	22.6613	22.4821	
30		29	15.5933	22.3822	22.1381	
173857-1		32	15.4365	22.8128	22.4789	
DUP 1		33	15.7376	22.6171	22.2460	
95 2		26	15.2825	22.2745	21.9824	
173859-1		6	15.4115	22.8971	22.4930	
8/11 2		34	15.4235	22.3865	21.5873	
3		HIDEL	15.4641	22.5407	21.6587	
4		24	15.4706	22.6418	20.7659	
5		44	15.2925	22.9394	21.8503	
6		146	15.2137	22.3705	21.8531	

OVEN TEMP: 103°C
TIME IN: 4:45 P.M.
TIME OUT: 9:38 A.M. OV: 8/12/04

Continued on Page

Read and Understood By

Z. Manning 8/11/04 167 [illegible] 8-11
Signed Date Signed Date

Curtis & Tompkins, Ltd.

Initial Calibration Data

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: /mm 8/9/04
Calnum: 804316738001 Name: Type: (normal) Date: 06-AUG-2004 23:27 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	219_010	804316738010	pest_1	06-AUG-2004 23:27	04WS0929
2	219_011	804316738011	pest_2	06-AUG-2004 23:57	04WS0928
3	219_012	804316738012	pest_3	07-AUG-2004 00:26	04WS1385
4	219_013	804316738013	pest_4	07-AUG-2004 00:55	04WS0926
5	219_014	804316738014	pest_5	07-AUG-2004 01:25	04WS1375
6	219_015	804316738015	pest_6	07-AUG-2004 01:54	04WS0924
7	219_016	804316738016	pest_7	07-AUG-2004 02:23	04WS1374

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	18599	17066	15890	16599	15788	15734	17384	AVRG	R		5.980E-5		pg	16723	6	0.995	20	
gamma-BHC	A	17020	15689	14239	14961	14044	13992	15469	AVRG	R		6.640E-5		pg	15059	7	0.995	20	
beta-BHC	A	7990.1	7142.6	6234.2	6478.9	5933.9	5596.8	5979.2	AVRG	R		1.543E-4		pg	6479.4	13	0.995	20	
delta-BHC	A	21550	16760	14405	14916	13913	14069	15343	AVRG	R		6.309E-5		pg	15851	17	0.995	20	
Heptachlor	A	15129	14001	12770	13370	12565	12550	13951	AVRG	R		7.420E-5		pg	13477	7	0.995	20	
Aldrin	A	15492	14657	13008	13367	12587	12441	13695	AVRG	R		7.349E-5		pg	13606	8	0.995	20	
Heptachlor epoxide	A	14493	13317	11949	12102	11467	11167	12120	AVRG	R		8.082E-5		pg	12374	9	0.995	20	
gamma-Chlordane	A	14200	13168	11732	12021	11386	11262	12417	AVRG	R		8.122E-5		pg	12312	9	0.995	20	
alpha-Chlordane	A	13756	12770	11322	11492	10848	10750	11736	AVRG	R		8.467E-5		pg	11811	9	0.995	20	
4,4'-DDE	A	12415	11653	10368	10934	10504	10920	10514	AVRG	R		9.055E-5		pg	11044	7	0.995	20	
Endosulfan I	A	13435	12368	10759	10927	10275	10057	10860	AVRG	R		8.897E-5		pg	11240	11	0.995	20	
Dieldrin	A	13503	12607	11104	11715	11152	11416	10813	AVRG	R		8.505E-5		pg	11758	8	0.995	20	
Endrin	A	10921	10064	8807.4	9201.0	8724.1	9027.3	9073.1	AVRG	R		1.064E-4		pg	9402.5	9	0.995	20	
4,4'-DDD	A	9858.8	9159.0	7889.3	8171.9	7945.4	8371.9	8280.5	AVRG	R		1.173E-4		pg	8525.3	8	0.995	20	
Endosulfan II	A	12312	10707	9108.4	9359.6	8953.7	9287.5	8944.0	AVRG	R		1.019E-4		pg	9810.2	13	0.995	20	
4,4'-DDT	A	9825.6	8987.6	7732.5	8359.9	7854.5	8474.6	8389.6	AVRG	R		1.174E-4		pg	8517.8	8	0.995	20	
Endrin aldehyde	A	12460	9031.8	7195.0	7004.1	6742.8	6733.4	6827.5	AVRG	R		1.250E-4		pg	7999.2	27	0.995	20	rsd ***
Methoxychlor	A	3923.8	3644.2	3027.4	3265.6	3238.3	3152.3	2725.0	AVRG	R		3.047E-4		pg	3282.4	12	0.995	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By:
Calnum: 804316738001 Name: Type: (normal) Date: 06-AUG-2004 23:27 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	12231	9434.4	7648.1	7653.7	7420.6	7639.4	7888.6	AVRG	R		1.168E-4		pg	8559.3	21	0.995	20	rsd ***
Endrin ketone	A	12749	10750	8789.6	9083.8	8788.5	9157.3	8406.4	AVRG	R		1.034E-4		pg	9674.9	16	0.995	20	
TCMX	A	12481	11597	10533	10701	10328	10065	10847	AVRG	R		9.144E-5		pg	10936	8	0.995	20	
Decachlorobiphenyl	A	6799.2	6354.3	5276.0	5331.1	4977.2	5562.2	5981.1	AVRG	R		1.738E-4		pg	5754.4	11	0.995	20	
alpha-BHC	B	19269	18984	18180	19465	17115	16660	18037	AVRG	R		5.481E-5		pg	18244	6	0.995	20	
gamma-BHC	B	17944	17490	16494	17603	15293	14612	16123	AVRG	R		6.057E-5		pg	16509	8	0.995	20	
beta-BHC	B	8620.5	8301.9	7492.1	7850.8	6664.1	5994.3	6704.7	AVRG	R		1.356E-4		pg	7375.5	13	0.995	20	
delta-BHC	B	22674	18864	17205	18178	15663	14805	16211	AVRG	R		5.663E-5		pg	17657	15	0.995	20	
Heptachlor	B	13539	13347	12928	13858	11984	11340	13295	AVRG	R		7.753E-5		pg	12899	7	0.995	20	
Aldrin	B	16826	16624	15487	16210	14231	13135	14671	AVRG	R		6.531E-5		pg	15312	9	0.995	20	
Heptachlor epoxide	B	15727	15576	14451	14833	13062	11644	13044	AVRG	R		7.118E-5		pg	14048	11	0.995	20	
gamma-Chlordane	B	15809	15515	14622	15116	13368	11848	13694	AVRG	R		7.002E-5		pg	14282	10	0.995	20	
alpha-Chlordane	B	15432	15119	14084	14447	12717	11203	12870	AVRG	R		7.301E-5		pg	13696	11	0.995	20	
4,4'-DDE	B	14288	14278	13655	14312	13028	11253	11540	AVRG	R		7.580E-5		pg	13193	10	0.995	20	
Endosulfan I	B	14535	14250	13250	13576	11995	10461	12010	AVRG	R		7.771E-5		pg	12868	11	0.995	20	
Dieldrin	B	15217	15008	14070	14781	13297	11545	11601	AVRG	R		7.328E-5		pg	13646	11	0.995	20	
Endrin	B	12468	12373	11492	11616	10514	9310.4	9793.9	AVRG	R		9.024E-5		pg	11081	11	0.995	20	
4,4'-DDD	B	11176	11172	10906	11002	10065	8643.0	9282.1	AVRG	R		9.689E-5		pg	10321	10	0.995	20	
Endosulfan II	B	13918	12872	12239	12243	11056	9583.2	9936.8	AVRG	R		8.552E-5		pg	11693	13	0.995	20	
4,4'-DDT	B	9979.3	10131	9921.6	10033	9320.2	7972.6	8802.2	AVRG	R		1.058E-4		pg	9451.4	9	0.995	20	
Endrin aldehyde	B	14166	10878	9818.5	9130.3	8500.1	6905.4	7620.7	AVRG	R		1.044E-4		pg	9574.2	25	0.995	20	rsd ***
Methoxychlor	B	4431.9	4355.3	4293.2	4357.8	4090.3	3037.3	2838.7	AVRG	R		2.554E-4		pg	3914.9	17	0.995	20	
Endosulfan sulfate	B	14342	11843	10843	10665	9818.3	8289.1	9172.7	AVRG	R		9.337E-5		pg	10710	18	0.995	20	
Endrin ketone	B	13972	12436	11975	11668	10882	8749.1	8878.7	AVRG	R		8.910E-5		pg	11223	17	0.995	20	
TCMX	B	13249	12774	12049	12467	11195	10696	11134	AVRG	R		8.377E-5		pg	11938	8	0.995	20	
Decachlorobiphenyl	B	8222.4	8060.9	7530.4	6917.1	6909.5	5127.0	5787.9	AVRG	R		1.442E-4		pg	6936.5	17	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	11		20	
EPA 8081A	B	22	12		20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Turbochrom Method File G:\gc23\Files\8081a219.mth
Printed by : analyst on: 8/9/04 9:42:25 AM
Created by : analyst on: 8/9/04 9:02:09 AM
Edited by : analyst on: 8/9/04 9:39:49 AM
Number of Times Edited : 4
Number of Times Calibrated : 126
Description: GC23

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

Mcs 8/8/04

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 8.452 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	49923.50	12810.01	----------	----------	1
2	10.0000	115965.05	28141.73	----------	----------	1
3	20.0000	210658.00	53835.55	----------	----------	1
4	40.0000	428037.00	105916.00	----------	----------	1
5	50.0000	516420.00	129599.60	----------	----------	1
6	100.0000	1006536.18	260278.96	----------	----------	1
7	200.0000	2169495.00	537243.83	----------	----------	1

Average Calibration Factor = 10936.063137 (%RSD = 7.63)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 10.096 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	37198.00	10830.06	----------	----------	1
2	5.0000	85331.00	24165.68	----------	----------	1
3	10.0000	158903.06	44542.53	----------	----------	1
4	20.0000	331986.00	93553.10	----------	----------	1
5	25.0000	394689.71	109744.26	----------	----------	1
6	50.0000	786693.00	223764.63	----------	----------	1
7	100.0000	1738410.00	512363.59	----------	----------	1

Average Calibration Factor = 16722.907756 (%RSD = 6.29)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.997 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	34040.84	10295.37	----------	----------	1
2	5.0000	78444.89	23119.33	----------	----------	1
3	10.0000	142391.00	41399.10	----------	----------	1
4	20.0000	299221.82	87634.46	----------	----------	1
5	25.0000	351096.22	101592.32	----------	----------	1
6	50.0000	699596.37	205519.88	----------	----------	1
7	100.0000	1546900.28	472647.42	----------	----------	1

Average Calibration Factor = 15059.195259 (%RSD = 7.31)

beta-BHC

Component Type : Single Peak Component
Retention Time : 11.252 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	15980.16	4783.53	----------	----------	1
2	5.0000	35713.05	10788.97	----------	----------	1
3	10.0000	62341.89	19025.21	----------	----------	1
4	20.0000	129578.47	38635.06	----------	----------	1
5	25.0000	148347.38	44607.35	----------	----------	1
6	50.0000	279837.98	84551.58	----------	----------	1
7	100.0000	597915.29	178372.64	----------	----------	1

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Average Calibration Factor = 6479.373194 (%RSD = 12.77)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.747 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	43099.14	13248.23	----------	----------	1
2	5.0000	83798.59	25271.48	----------	----------	1
3	10.0000	144048.59	43000.56	----------	----------	1
4	20.0000	298319.44	90163.25	----------	----------	1
5	25.0000	347829.57	103705.72	----------	----------	1
6	50.0000	703435.50	213077.76	----------	----------	1
7	100.0000	1534341.36	479832.15	----------	----------	1

Average Calibration Factor = 15850.775021 (%RSD = 16.98)

Heptachlor
Component Type : Single Peak Component
Retention Time : 12.312 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	30258.26	9343.34	----------	----------	1
2	5.0000	70003.00	21114.02	----------	----------	1
3	10.0000	127703.00	38150.60	----------	----------	1
4	20.0000	267405.12	80383.11	----------	----------	1
5	25.0000	314132.00	93208.87	----------	----------	1
6	50.0000	627497.94	188861.51	----------	----------	1
7	100.0000	1395089.88	437533.38	----------	----------	1

Average Calibration Factor = 13476.632202 (%RSD = 7.06)

Aldrin
Component Type : Single Peak Component
Retention Time : 13.121 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	30983.56	9357.85	----------	----------	1
2	5.0000	73282.97	22237.77	----------	----------	1
3	10.0000	130082.78	40432.83	----------	----------	1
4	20.0000	267334.75	81918.15	----------	----------	1
5	25.0000	314664.00	98461.66	----------	----------	1
6	50.0000	622026.14	195341.11	----------	----------	1
7	100.0000	1369451.71	426663.21	----------	----------	1

Average Calibration Factor = 13606.426653 (%RSD = 8.21)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 14.729 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	28986.64	9231.07	----------	----------	1
2	5.0000	66583.02	20982.67	----------	----------	1
3	10.0000	119489.00	36722.15	----------	----------	1
4	20.0000	242034.26	75352.52	----------	----------	1
5	25.0000	286674.89	88334.15	----------	----------	1
6	50.0000	558335.85	172733.53	----------	----------	1
7	100.0000	1212044.70	393208.67	----------	----------	1

Average Calibration Factor = 12373.528069 (%RSD = 9.32)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 15.048 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	28400.44	9145.85	----------	----------	1
2	5.0000	65838.73	21139.88	----------	----------	1
3	10.0000	117319.53	36996.59	----------	----------	1
4	20.0000	240424.50	76371.94	----------	----------	1
5	25.0000	284652.00	88115.94	----------	----------	1
6	50.0000	563098.00	179531.76	----------	----------	1
7	100.0000	1241682.00	406507.25	----------	----------	1

Average Calibration Factor = 12312.285798 (%RSD = 8.58)

alpha-Chlordane
Component Type : Single Peak Component
Retention Time : 15.385 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27512.00	8764.70	----------	----------	1
2	5.0000	63852.00	20505.97	----------	----------	1
3	10.0000	113215.00	36369.55	----------	----------	1
4	20.0000	229835.92	73801.52	----------	----------	1
5	25.0000	271200.00	87097.87	----------	----------	1
6	50.0000	537517.00	175318.32	----------	----------	1
7	100.0000	1173565.00	376610.27	----------	----------	1

Average Calibration Factor = 11810.526537 (%RSD = 9.21)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 15.579 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	49659.50	16637.24	----------	----------	1
2	10.0000	116532.00	38250.12	----------	----------	1
3	20.0000	207352.00	66175.69	----------	----------	1
4	40.0000	437344.50	142532.54	----------	----------	1
5	50.0000	525195.00	171367.17	----------	----------	1
6	100.0000	1091953.00	354859.53	----------	----------	1
7	200.0000	2102879.50	691374.95	----------	----------	1

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Average Calibration Factor = 11043.873571 (%RSD = 6.72)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 15.739 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	26869.00	8189.85	----------	----------	1
2	5.0000	61837.50	18759.72	----------	----------	1
3	10.0000	107591.00	33731.80	----------	----------	1
4	20.0000	218534.00	67617.18	----------	----------	1
5	25.0000	256863.00	81627.42	----------	----------	1
6	50.0000	502858.50	158659.22	----------	----------	1
7	100.0000	1086041.00	346756.87	----------	----------	1

Average Calibration Factor = 11239.985714 (%RSD = 10.83)

Dieldrin
Component Type : Single Peak Component
Retention Time : 16.349 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	54011.32	17319.87	----------	----------	1
2	10.0000	126066.00	40259.52	----------	----------	1
3	20.0000	222073.09	70408.54	----------	----------	1
4	40.0000	468585.29	150763.95	----------	----------	1
5	50.0000	557603.14	174701.10	----------	----------	1
6	100.0000	1141599.56	369308.76	----------	----------	1
7	200.0000	2162536.55	673260.00	----------	----------	1

Average Calibration Factor = 11758.351233 (%RSD = 8.20)

Endrin
Component Type : Single Peak Component
Retention Time : 16.934 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	43682.08	13694.21	----------	----------	1
2	10.0000	100638.50	32114.44	----------	----------	1
3	20.0000	176148.50	55922.28	----------	----------	1
4	40.0000	368039.00	117456.88	----------	----------	1
5	50.0000	436203.00	138407.89	----------	----------	1
6	100.0000	902734.50	293538.30	----------	----------	1
7	200.0000	1814628.50	561723.26	----------	----------	1

Average Calibration Factor = 9402.474030 (%RSD = 8.52)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 17.088 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	39435.28	12487.23	----------	----------	1
2	10.0000	91590.00	29730.07	----------	----------	1
3	20.0000	157786.00	51892.83	----------	----------	1
4	40.0000	326877.50	107854.55	----------	----------	1
5	50.0000	397271.00	133629.25	----------	----------	1
6	100.0000	837194.50	284163.53	----------	----------	1
7	200.0000	1656106.50	531598.80	----------	----------	1

Average Calibration Factor = 8525.279121 (%RSD = 8.47)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 17.502 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	49248.49	15240.02	----------	----------	1
2	10.0000	107065.00	33624.39	----------	----------	1
3	20.0000	182167.00	57194.06	----------	----------	1
4	40.0000	374383.00	118247.29	----------	----------	1
5	50.0000	447683.00	141114.79	----------	----------	1
6	100.0000	928745.00	300730.82	----------	----------	1
7	200.0000	1788797.00	547670.45	----------	----------	1

Average Calibration Factor = 9810.234662 (%RSD = 12.84)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.782 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	39302.51	12209.78	----------	----------	1
2	10.0000	89875.53	29105.09	----------	----------	1
3	20.0000	154650.00	50040.99	----------	----------	1
4	40.0000	334395.00	106919.20	----------	----------	1
5	50.0000	392727.00	124320.36	----------	----------	1
6	100.0000	847464.00	284757.62	----------	----------	1
7	200.0000	1677924.50	552161.18	----------	----------	1

Average Calibration Factor = 8517.765392 (%RSD = 8.34)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 18.552 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	49840.68	15530.85	----------	----------	1
2	10.0000	90317.69	28178.78	----------	----------	1
3	20.0000	143900.17	44825.24	----------	----------	1
4	40.0000	280163.91	86585.30	----------	----------	1
5	50.0000	337141.39	104933.98	----------	----------	1
6	100.0000	673338.16	213085.66	----------	-------88----	1
7	200.0000	1365493.61	420368.05	----------	----------	1

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Average Calibration Factor = 7999.245957 (%RSD = 26.60)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 18.978 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	78476.99	26109.87	----------	----------	1
2	50.0000	182208.13	59566.12	----------	----------	1
3	100.0000	302738.30	97872.15	----------	----------	1
4	200.0000	653122.26	214528.58	----------	----------	1
5	250.0000	809564.42	270712.49	----------	----------	1
6	500.0000	1576155.16	501739.72	----------	----------	1
7	1000.0000	2724970.33	867109.50	----------	----------	1

Average Calibration Factor = 3282.363560 (%RSD = 12.04)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 19.640 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	48922.16	15032.96	----------	----------	1
2	10.0000	94343.92	28734.41	----------	----------	1
3	20.0000	152962.36	46970.17	----------	----------	1
4	40.0000	306148.68	93352.80	----------	----------	1
5	50.0000	371029.09	116649.53	----------	----------	1
6	100.0000	763939.65	239875.03	----------	----------	1
7	200.0000	1577719.84	497310.64	----------	----------	1

Average Calibration Factor = 8559.334874 (%RSD = 20.51)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 20.300 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	50997.47	17468.75	----------	----------	1
2	10.0000	107495.72	36833.02	----------	----------	1
3	20.0000	175791.73	60373.80	----------	----------	1
4	40.0000	363352.71	124952.88	----------	----------	1
5	50.0000	439425.28	148844.31	----------	----------	1
6	100.0000	915729.38	320818.12	----------	----------	1
7	200.0000	1681285.00	575976.87	----------	----------	1

Average Calibration Factor = 9674.938400 (%RSD = 16.01)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.153 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	63542.90	22479.54	----------	----------	1
3	20.0000	105520.86	36770.92	----------	----------	1
4	40.0000	213243.55	73315.75	----------	----------	1
5	50.0000	248859.86	89567.05	----------	----------	1
6	100.0000	556220.04	200135.23	----------	----------	1
7	200.0000	1196213.77	428257.92	----------	----------	1
1	4.0000	27196.94	9774.41	----------	----------	1

Average Calibration Factor = 5754.446191 (%RSD = 11.33)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49923.50	12810.01	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115965.05	28141.73	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
210658.00	53835.55	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
428037.00	105916.00	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
516420.00	129599.60	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1006536.18	260278.96	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2169495.00	537243.83	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37198.00	10830.06	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85331.00	24165.68	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
158903.06	44542.53	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
331986.00	93553.10	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
394689.71	109744.26	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
786693.00	223764.63	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1738410.00	512363.59	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : gamma-BHC
Level : 1

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34040.84	10295.37	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78444.89	23119.33	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
142391.00	41399.10	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299221.82	87634.46	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
351096.22	101592.32	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
699596.37	205519.88	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1546900.28	472647.42	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15980.16	4783.53	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35713.05	10788.97	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62341.89	19025.21	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129578.47	38635.06	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
148347.38	44607.35	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
279837.98	84551.58	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
597915.29	178372.64	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : delta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43099.14	13248.23	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83798.59	25271.48	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
144048.59	43000.56	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
298319.44	90163.25	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
347829.57	103705.72	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
703435.50	213077.76	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1534341.36	479832.15	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Heptachlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30258.26	9343.34	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70003.00	21114.02	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127703.00	38150.60	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
267405.12	80383.11	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314132.00	93208.87	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
627497.94	188861.51	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1395089.88	437533.38	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30983.56	9357.85	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73282.97	22237.77	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
130082.78	40432.83	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
267334.75	81918.15	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314664.00	98461.66	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
622026.14	195341.11	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1369451.71	426663.21	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28986.64	9231.07	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66583.02	20982.67	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119489.00	36722.15	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
242034.26	75352.52	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
286674.89	88334.15	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
558335.85	172733.53	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1212044.70	393208.67	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28400.44	9145.85	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65838.73	21139.88	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117319.53	36996.59	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
240424.50	76371.94	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
284652.00	88115.94	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
563098.00	179531.76	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1241682.00	406507.25	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27512.00	8764.70	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63852.00	20505.97	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
113215.00	36369.55	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229835.92	73801.52	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
271200.00	87097.87	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
537517.00	175318.32	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1173565.00	376610.27	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49659.50	16637.24	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116532.00	38250.12	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
207352.00	66175.69	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
437344.50	142532.54	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
525195.00	171367.17	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1091953.00	354859.53	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2102879.50	691374.95	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Endosulfan I
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26869.00	8189.85	2.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61837.50	18759.72	5.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107591.00	33731.80	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
218534.00	67617.18	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
256863.00	81627.42	25.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
502858.50	158659.22	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1086041.00	346756.87	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54011.32	17319.87	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126066.00	40259.52	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
222073.09	70408.54	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
468585.29	150763.95	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
557603.14	174701.10	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1141599.56	369308.76	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2162536.55	673260.00	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43682.08	13694.21	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
100638.50	32114.44	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
176148.50	55922.28	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
368039.00	117456.88	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
436203.00	138407.89	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
902734.50	293538.30	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1814628.50	561723.26	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : 4,4'-DDD
Level : 1

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39435.28	12487.23	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91590.00	29730.07	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157786.00	51892.83	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
326877.50	107854.55	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
397271.00	133629.25	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
837194.50	284163.53	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1656106.50	531598.80	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Endosulfan II
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49248.49	15240.02	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107065.00	33624.39	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182167.00	57194.06	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
374383.00	118247.29	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
447683.00	141114.79	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
928745.00	300730.82	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1788797.00	547670.45	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39302.51	12209.78	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
89875.53	29105.09	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154650.00	50040.99	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
334395.00	106919.20	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
392727.00	124320.36	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
847464.00	284757.62	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1677924.50	552161.18	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49840.68	15530.85	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
90317.69	28178.78	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
143900.17	44825.24	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
280163.91	86585.30	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
337141.39	104933.98	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
673338.16	213085.66	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1365493.61	420368.05	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78476.99	26109.87	20.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182208.13	59566.12	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
302738.30	97872.15	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
653122.26	214528.58	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
809564.42	270712.49	250.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1576155.16	501739.72	500.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2724970.33	867109.50	1000.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48922.16	15032.96	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94343.92	28734.41	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
152962.36	46970.17	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
306148.68	93352.80	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371029.09	116649.53	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
763939.65	239875.03	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1577719.84	497310.64	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Endrin ketone

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50997.47	17468.75	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107495.72	36833.02	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175791.73	60373.80	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
363352.71	124952.88	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
439425.28	148844.31	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
915729.38	320818.12	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

8/9/04 9:42:25 AM Method: G:\gc23\Files\8081a219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1681285.00	575976.87	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Component : Decachlorobiphenyl

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63542.90	22479.54	10.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
105520.86	36770.92	20.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
213243.55	73315.75	40.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
248859.86	89567.05	50.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
556220.04	200135.23	100.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1196213.77	428257.92	200.0000	---------	---------	8/9/04	9:31:05 AM	G:\gc23\CHA\219a016p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27196.94	9774.41	4.0000	---------	---------	8/9/04	9:39:07 AM	G:\gc23\CHA\219a010p.rst

Turbochrom Method File G:\gc23\Files\8081b219.mth
Printed by : analyst on: 8/9/04 9:42:03 AM
Created by : analyst on: 8/9/04 8:55:49 AM
Edited by : analyst on: 8/9/04 9:41:10 AM
Number of Times Edited : 3
Number of Times Calibrated : 116
Description: GC 23

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

JMW 8/9/04

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 8.423 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	52996.00	14636.99	----------	----------	1
2	10.0000	127737.73	36175.18	----------	----------	1
3	20.0000	240971.50	68508.67	----------	----------	1
4	40.0000	498667.34	136181.43	----------	----------	1
5	50.0000	559747.00	159659.44	----------	----------	1
6	100.0000	1069647.00	292910.38	----------	----------	1
7	200.0000	2226777.00	609270.25	----------	----------	1

Average Calibration Factor = 11937.618042 (%RSD = 7.98)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 10.137 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	38537.00	11655.55	----------	----------	1
2	5.0000	94922.00	29826.11	----------	----------	1
3	10.0000	181801.50	57166.99	----------	----------	1
4	20.0000	389302.45	119811.41	----------	----------	1
5	25.0000	427864.00	134740.34	----------	----------	1
6	50.0000	833015.00	257052.90	----------	----------	1
7	100.0000	1803652.00	533374.81	----------	----------	1

Average Calibration Factor = 18244.221797 (%RSD = 5.89)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 11.115 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	35888.27	11541.87	----------	----------	1
2	5.0000	87448.19	27977.97	----------	----------	1
3	10.0000	164941.37	51907.78	----------	----------	1
4	20.0000	352062.56	111861.07	----------	----------	1
5	25.0000	382329.33	118570.81	----------	----------	1
6	50.0000	730611.77	230871.81	----------	----------	1
7	100.0000	1612320.95	514636.34	----------	----------	1

Average Calibration Factor = 16508.522014 (%RSD = 7.60)

beta-BHC

Component Type : Single Peak Component
Retention Time : 11.323 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	17241.00	5463.56	----------	----------	1
2	5.0000	41509.34	13177.54	----------	----------	1
3	10.0000	74921.00	24020.75	----------	----------	1
4	20.0000	157016.50	49197.36	----------	----------	1
5	25.0000	166602.50	53438.94	----------	----------	1
6	50.0000	299717.00	93307.99	----------	---------105	1
7	100.0000	670471.00	213275.13	----------	----------	1

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Average Calibration Factor = 7375.491795 (%RSD = 12.99)

delta-BHC
Component Type : Single Peak Component
Retention Time : 12.119 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	45348.46	14642.33	----------	----------	1
2	5.0000	94322.00	31203.82	----------	----------	1
3	10.0000	172047.00	56924.35	----------	----------	1
4	20.0000	363560.50	119459.59	----------	----------	1
5	25.0000	391568.00	129522.79	----------	----------	1
6	50.0000	740274.00	246394.78	----------	----------	1
7	100.0000	1621093.50	511676.33	----------	----------	1

Average Calibration Factor = 17657.213075 (%RSD = 14.86)

Heptachlor
Component Type : Single Peak Component
Retention Time : 12.311 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27077.00	8455.89	----------	----------	1
2	5.0000	66734.00	20652.74	----------	----------	1
3	10.0000	129281.00	38703.67	----------	----------	1
4	20.0000	277162.50	85313.19	----------	----------	1
5	25.0000	299595.13	93090.97	----------	----------	1
6	50.0000	567006.17	175047.17	----------	----------	1
7	100.0000	1329485.79	429838.64	----------	----------	1

Average Calibration Factor = 12898.615895 (%RSD = 7.05)

Aldrin
Component Type : Single Peak Component
Retention Time : 13.162 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	33651.00	11032.98	----------	----------	1
2	5.0000	83119.15	26772.80	----------	----------	1
3	10.0000	154870.50	48767.24	----------	----------	1
4	20.0000	324191.00	103611.25	----------	----------	1
5	25.0000	355778.00	112425.62	----------	----------	1
6	50.0000	656767.00	207977.56	----------	----------	1
7	100.0000	1467115.00	481086.79	----------	----------	1

Average Calibration Factor = 15311.934232 (%RSD = 8.91)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 14.640 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	31453.00	10333.02	----------	----------	1
2	5.0000	77882.00	24588.98	----------	----------	1
3	10.0000	144505.77	46619.60	----------	----------	1
4	20.0000	296657.00	94872.00	----------	----------	1
5	25.0000	326555.50	107922.81	----------	----------	1
6	50.0000	582211.36	189644.42	----------	----------	1
7	100.0000	1304435.54	429055.14	----------	----------	1

Average Calibration Factor = 14048.161444 (%RSD = 10.75)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 15.118 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	31618.06	10406.94	----------	----------	1
2	5.0000	77574.50	26146.45	----------	----------	1
3	10.0000	146223.86	49289.57	----------	----------	1
4	20.0000	302310.88	101183.47	----------	----------	1
5	25.0000	334191.54	112140.95	----------	----------	1
6	50.0000	592375.08	199587.38	----------	----------	1
7	100.0000	1369354.93	446267.32	----------	----------	1

Average Calibration Factor = 14281.510407 (%RSD = 9.81)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 15.494 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	30864.00	10445.82	----------	----------	1
2	5.0000	75594.00	24894.57	----------	----------	1
3	10.0000	140839.00	45200.20	----------	----------	1
4	20.0000	288930.00	94197.21	----------	----------	1
5	25.0000	317925.00	105444.77	----------	----------	1
6	50.0000	560158.00	180204.49	----------	----------	1
7	100.0000	1286998.50	435117.33	----------	----------	1

Average Calibration Factor = 13695.906429 (%RSD = 11.00)

Endosulfan I

Component Type : Single Peak Component
Retention Time : 15.631 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	29070.50	9805.04	----------	----------	1
2	5.0000	71252.00	23764.24	----------	----------	1
3	10.0000	132497.00	43654.04	----------	----------	1
4	20.0000	271515.00	90063.54	----------	----------	1
5	25.0000	299884.00	95702.52	----------	----------	1
6	50.0000	523035.50	172779.55	----------	---108---	1
7	100.0000	1201022.00	400065.05	----------	----------	1

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Average Calibration Factor = 12868.198571 (%RSD = 11.27)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 15.936 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	57152.00	18925.03	----------	----------	1
2	10.0000	142775.00	48683.17	----------	----------	1
3	20.0000	273094.50	94531.94	----------	----------	1
4	40.0000	572463.37	197985.82	----------	----------	1
5	50.0000	651419.50	228060.94	----------	----------	1
6	100.0000	1125250.00	389685.47	----------	----------	1
7	200.0000	2307984.50	738247.29	----------	----------	1

Average Calibration Factor = 13193.231685 (%RSD = 9.96)

Dieldrin
Component Type : Single Peak Component
Retention Time : 16.319 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	60869.14	19555.61	----------	----------	1
2	10.0000	150078.00	49248.92	----------	----------	1
3	20.0000	281404.00	93593.36	----------	----------	1
4	40.0000	591251.89	196257.60	----------	----------	1
5	50.0000	664828.00	223065.50	----------	----------	1
6	100.0000	1154528.64	386239.81	----------	----------	1
7	200.0000	2320271.74	719040.75	----------	----------	1

Average Calibration Factor = 13645.683990 (%RSD = 11.40)

Endrin
Component Type : Single Peak Component
Retention Time : 17.079 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	49871.76	16623.40	----------	----------	1
2	10.0000	123730.63	39855.77	----------	----------	1
3	20.0000	229833.68	72617.83	----------	----------	1
4	40.0000	464636.32	150220.04	----------	----------	1
5	50.0000	525708.81	169199.65	----------	----------	1
6	100.0000	931040.20	298340.66	----------	----------	1
7	200.0000	1958783.94	629789.76	----------	----------	1

Average Calibration Factor = 11081.013343 (%RSD = 11.15)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 17.369 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	44704.00	14842.23	----------	----------	1
2	10.0000	111716.66	38072.09	----------	----------	1
3	20.0000	218123.19	74622.47	----------	----------	1
4	40.0000	440090.32	150781.96	----------	----------	1
5	50.0000	503229.19	173718.01	----------	----------	1
6	100.0000	864299.93	301271.50	----------	----------	1
7	200.0000	1856423.39	598646.77	----------	----------	1

Average Calibration Factor = 10320.826222 (%RSD = 9.87)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 17.596 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	55671.28	18585.93	----------	----------	1
2	10.0000	128722.00	42048.32	----------	----------	1
3	20.0000	244782.55	78526.77	----------	----------	1
4	40.0000	489722.99	160255.21	----------	----------	1
5	50.0000	552819.43	177642.41	----------	----------	1
6	100.0000	958323.57	311658.24	----------	----------	1
7	200.0000	1987362.38	641812.56	----------	----------	1

Average Calibration Factor = 11692.665518 (%RSD = 13.47)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 18.150 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	39917.34	13724.64	----------	----------	1
2	10.0000	101312.03	34846.60	----------	----------	1
3	20.0000	198432.21	68091.79	----------	----------	1
4	40.0000	401313.61	138595.59	----------	----------	1
5	50.0000	466008.37	156527.21	----------	----------	1
6	100.0000	797258.53	277584.51	----------	----------	1
7	200.0000	1760430.46	588292.55	----------	----------	1

Average Calibration Factor = 9451.413207 (%RSD = 8.56)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 18.434 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	56664.24	18119.88	----------	----------	1
2	10.0000	108784.57	34539.51	----------	----------	1
3	20.0000	196369.04	61855.94	----------	----------	1
4	40.0000	365211.56	118146.33	----------	----------	1
5	50.0000	425006.92	132811.97	----------	----------	1
6	100.0000	690538.43	222718.12	----------	----------	1
7	200.0000	1524138.32	481667.81	----------	----------	1

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Average Calibration Factor = 9574.210355 (%RSD = 25.28)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 19.116 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	57367.60	19055.74	----------	----------	1
2	10.0000	118434.40	39021.87	----------	----------	1
3	20.0000	216851.00	71473.67	----------	----------	1
4	40.0000	426618.33	140388.77	----------	----------	1
5	50.0000	490914.03	155762.47	----------	----------	1
6	100.0000	828914.47	276255.33	----------	----------	1
7	200.0000	1834532.85	599404.68	----------	----------	1

Average Calibration Factor = 10710.491076 (%RSD = 18.48)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 19.862 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	88638.00	30508.79	----------	----------	1
2	50.0000	217762.71	73906.88	----------	----------	1
3	100.0000	429324.39	144412.03	----------	----------	1
4	200.0000	871559.37	297424.62	----------	----------	1
5	250.0000	1022586.90	350618.95	----------	----------	1
6	500.0000	1518641.31	495716.92	----------	----------	1
7	1000.0000	2838656.91	917185.57	----------	----------	1

Average Calibration Factor = 3914.926001 (%RSD = 17.32)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 20.385 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	55887.50	20142.84	----------	----------	1
2	10.0000	124357.09	44126.80	----------	----------	1
3	20.0000	239506.72	85696.99	----------	----------	1
4	40.0000	466716.19	165226.04	----------	----------	1
5	50.0000	544121.89	196143.82	----------	----------	1
6	100.0000	874907.48	318467.06	----------	----------	1
7	200.0000	1775734.90	609765.04	----------	----------	1

Average Calibration Factor = 11223.001648 (%RSD = 16.88)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.748 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	80609.03	27801.48	----------	----------	1
3	20.0000	150608.92	52190.17	----------	----------	1
4	40.0000	276682.67	96627.98	----------	----------	1
5	50.0000	345472.97	115318.20	----------	----------	1
1	4.0000	32889.62	11462.70	----------	----------	1
6	100.0000	512701.50	174302.69	----------	----------	1
7	200.0000	1157587.02	402148.67	----------	----------	1

Average Calibration Factor = 6936.461508 (%RSD = 16.51)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52996.00	14636.99	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127737.73	36175.18	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
240971.50	68508.67	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
498667.34	136181.43	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
559747.00	159659.44	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1069647.00	292910.38	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2226777.00	609270.25	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38537.00	11655.55	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94922.00	29826.11	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
181801.50	57166.99	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
389302.45	119811.41	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
427864.00	134740.34	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
833015.00	257052.90	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1803652.00	533374.81	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : gamma-BHC
Level : 1

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35888.27	11541.87	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
87448.19	27977.97	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
164941.37	51907.78	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
352062.56	111861.07	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
382329.33	118570.81	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
730611.77	230871.81	50,0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1612320.95	514636.34	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17241.00	5463.56	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41509.34	13177.54	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74921.00	24020.75	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157016.50	49197.36	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
166602.50	53438.94	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299717.00	93307.99	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
670471.00	213275.13	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : delta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45348.46	14642.33	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94322.00	31203.82	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
172047.00	56924.35	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
363560.50	119459.59	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
391568.00	129522.79	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
740274.00	246394.78	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1621093.50	511676.33	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Heptachlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27077.00	8455.89	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66734.00	20652.74	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129281.00	38703.67	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
277162.50	85313.19	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299595.13	93090.97	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
567006.17	175047.17	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1329485.79	429838.64	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33651.00	11032.98	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83119.15	26772.80	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154870.50	48767.24	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
324191.00	103611.25	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
355778.00	112425.62	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
656767.00	207977.56	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1467115.00	481086.79	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31453.00	10333.02	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77882.00	24588.98	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
144505.77	46619.60	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
296657.00	94872.00	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
326555.50	107922.81	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
582211.36	189644.42	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1304435.54	429055.14	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31618.06	10406.94	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77574.50	26146.45	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
146223.86	49289.57	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
302310.88	101183.47	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
334191.54	112140.95	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
592375.08	199587.38	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1369354.93	446267.32	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : alpha-Chlordane

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30864.00	10445.82	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75594.00	24894.57	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140839.00	45200.20	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
288930.00	94197.21	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
317925.00	105444.77	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
560158.00	180204.49	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1286998.50	435117.33	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Endosulfan I

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29070.50	9805.04	2.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71252.00	23764.24	5.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132497.00	43654.04	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
271515.00	90063.54	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299884.00	95702.52	25.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
523035.50	172779.55	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1201022.00	400065.05	100.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57152.00	18925.03	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
142775.00	48683.17	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
273094.50	94531.94	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
572463.37	197985.82	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
651419.50	228060.94	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1125250.00	389685.47	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2307984.50	738247.29	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60869.14	19555.61	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
150078.00	49248.92	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
281404.00	93593.36	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
591251.89	196257.60	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
664828.00	223065.50	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1154528.64	386239.81	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2320271.74	719040.75	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49871.76	16623.40	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123730.63	39855.77	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229833.68	72617.83	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
464636.32	150220.04	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
525708.81	169199.65	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
931040.20	298340.66	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1958783.94	629789.76	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : 4,4'-DDD
Level : 1

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44704.00	14842.23	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
111716.66	38072.09	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
218123.19	74622.47	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
440090.32	150781.96	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
503229.19	173718.01	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
864299.93	301271.50	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1856423.39	598646.77	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Endosulfan II
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55671.28	18585.93	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128722.00	42048.32	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
244782.55	78526.77	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
489722.99	160255.21	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
552819.43	177642.41	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
958323.57	311658.24	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1987362.38	641812.56	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39917.34	13724.64	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101312.03	34846.60	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
198432.21	68091.79	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
401313.61	138595.59	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
466008.37	156527.21	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
797258.53	277584.51	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1760430.46	588292.55	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56664.24	18119.88	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
108784.57	34539.51	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
196369.04	61855.94	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
365211.56	118146.33	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
425006.92	132811.97	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
690538.43	222718.12	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1524138.32	481667.81	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57367.60	19055.74	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118434.40	39021.87	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216851.00	71473.67	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
426618.33	140388.77	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
490914.03	155762.47	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
828914.47	276255.33	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1834532.85	599404.68	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
88638.00	30508.79	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
217762.71	73906.88	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
429324.39	144412.03	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
871559.37	297424.62	200.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1022586.90	350618.95	250.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1518641.31	495716.92	500.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2838656.91	917185.57	1000.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Endrin ketone

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55887.50	20142.84	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124357.09	44126.80	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
239506.72	85696.99	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
466716.19	165226.04	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
544121.89	196143.82	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
874907.48	318467.06	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

8/9/04 9:42:03 AM Method: G:\gc23\Files\8081b219.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1775734.90	609765.04	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Component : Decachlorobiphenyl

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80609.03	27801.48	10.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b011p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
150608.92	52190.17	20.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b012p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
276682.67	96627.98	40.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b013p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
345472.97	115318.20	50.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b014p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32889.62	11462.70	4.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
512701.50	174302.69	100.0000	---------	---------	8/9/04	9:40:53 AM	G:\gc23\CHB\219b015p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1157587.02	402148.67	200.0000	---------	---------	8/9/04	9:40:54 AM	G:\gc23\CHB\219b016p.rst

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0929,pest_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 8/9/04 9:38:23 AM
Data Acquisition Time : 8/6/04 11:27:45 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a010p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.455	49923.50	4.3895	1.000	1	4.39
alpha-BHC	10.099	37198.00	2.1439	1.000	1	2.14
gamma-BHC	10.999	34040.84	2.1748	1.000	1	2.17
beta-BHC	11.254	15980.16	2.3527	1.000	1	2.35
delta-BHC	11.749	43099.14	2.7117	1.000	1	2.71
Heptachlor	12.315	30258.26	2.2138	1.000	1	2.21
Aldrin	13.123	30983.56	2.1845	1.000	1	2.18
Heptachlor epoxide	14.732	28986.64	2.2235	1.000	1	2.22
gamma-Chlordane	15.050	28400.44	2.1536	1.000	1	2.15
alpha-Chlordane	15.387	27512.00	2.1906	1.000	1	2.19
4,4'-DDE	15.582	49659.50	4.1578	1.000	1	4.16
Endosulfan I	15.745	26869.00	2.2194	1.000	1	2.22
Dieldrin	16.352	54011.32	4.3095	1.000	1	4.31
Endrin	16.937	43682.08	4.8385	1.000	1	4.84
4,4'-DDD	17.094	39435.28	4.1021	1.000	1	4.10
Endosulfan II	17.504	49248.49	4.6539	1.000	1	4.65
4,4'-DDT	17.785	39302.51	4.6173	1.000	1	4.62
Endrin aldehyde	18.555	49840.68	5.8894	1.000	1	5.89
Methoxychlor	18.981	78476.99	23.3200	1.000	1	23.32
Endosulfan sulfate	19.645	48922.16	5.4574	1.000	1	5.46
Endrin ketone	20.300	50997.47	4.8004	1.000	1	4.80
Decachlorobiphenyl	22.152	27196.94	4.2018	1.000	1	4.20
		884024.96	97.3062			97.31

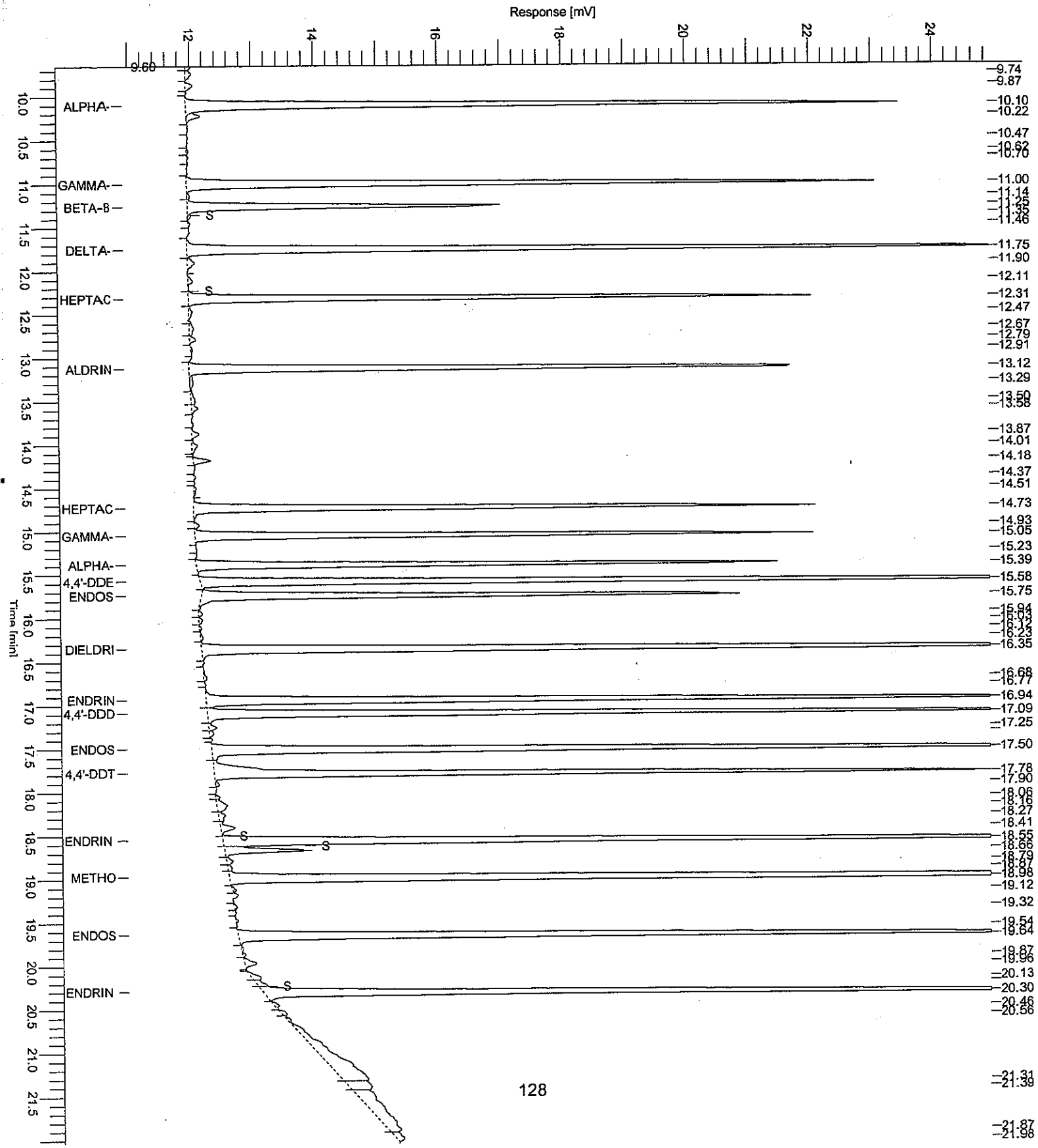
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\219a010p.TX0

RNO
8/9/04

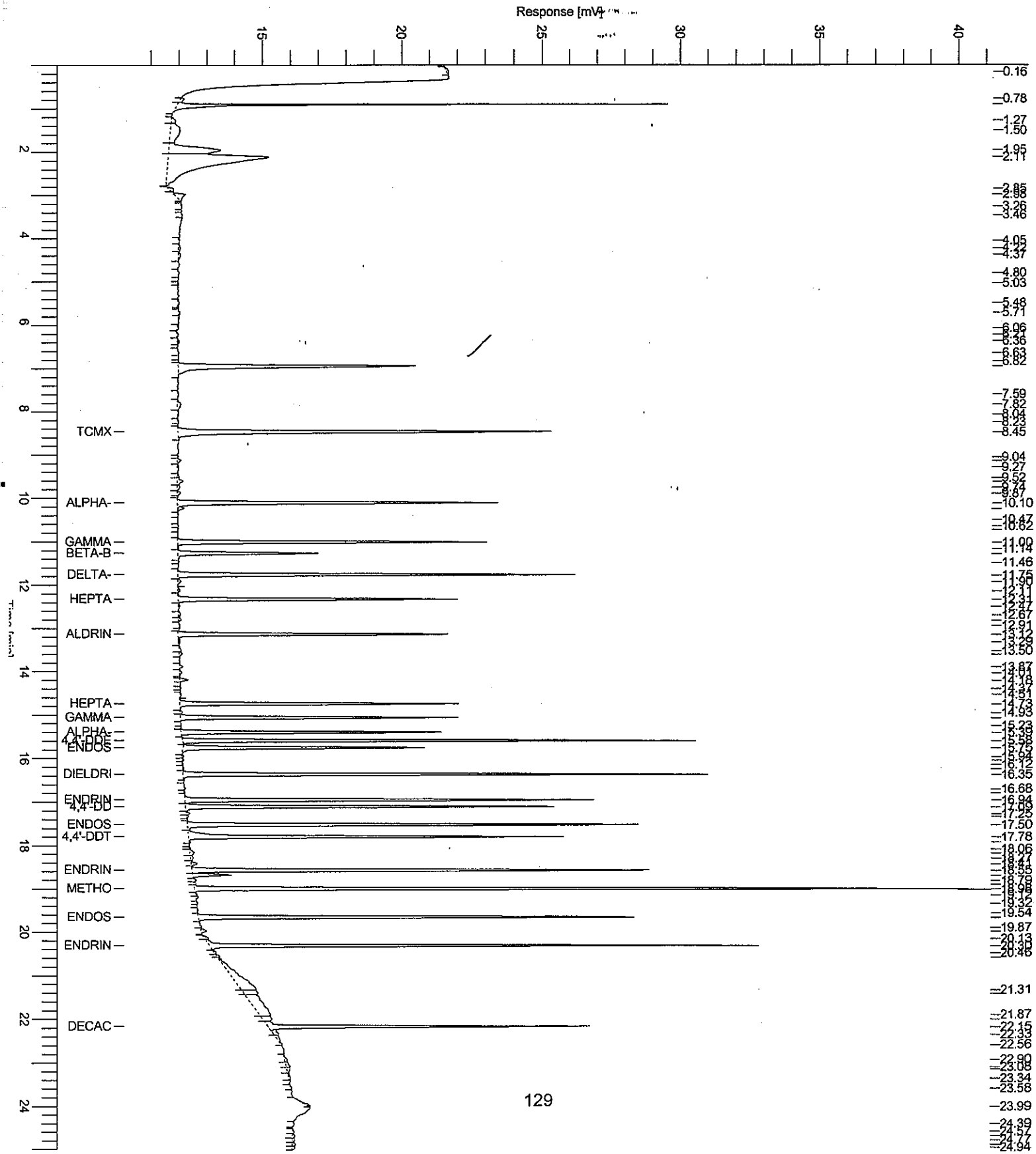
GC23 Rtx-CLPesticides

mple Name : ical04ws0929,pest_1 Sample #: level 1 Page 1 of 1
eName : G:\gc23\CHA\219a010.raw
te : 8/9/04 9:38:27 AM
ethod :
Time of Injection: 8/6/04 11:27:45 PM
art Time : 9.65 min End Time : 22.03 min Low Point : 10.91 mV High Point : 24.88 mV
ot Offset: 10.91 mV Plot Scale: 14.0 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws0929,pest_1 Sample #: level 1 Page 1 of 1
leName : G:\gc23\CHA\219a010.raw
ate : 8/9/04 9:05:39 AM
ethod : gc23ins Time of Injection: 8/6/04 11:27:45 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 10.04 mV High Point : 41.25 mV
cale Factor: 1.0 Plot Offset: 10.04 mV Plot Scale: 31.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0929;pest_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 8/9/04 9:35:47 AM
Data Acquisition Time : 8/6/04 11:27:45 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b010p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

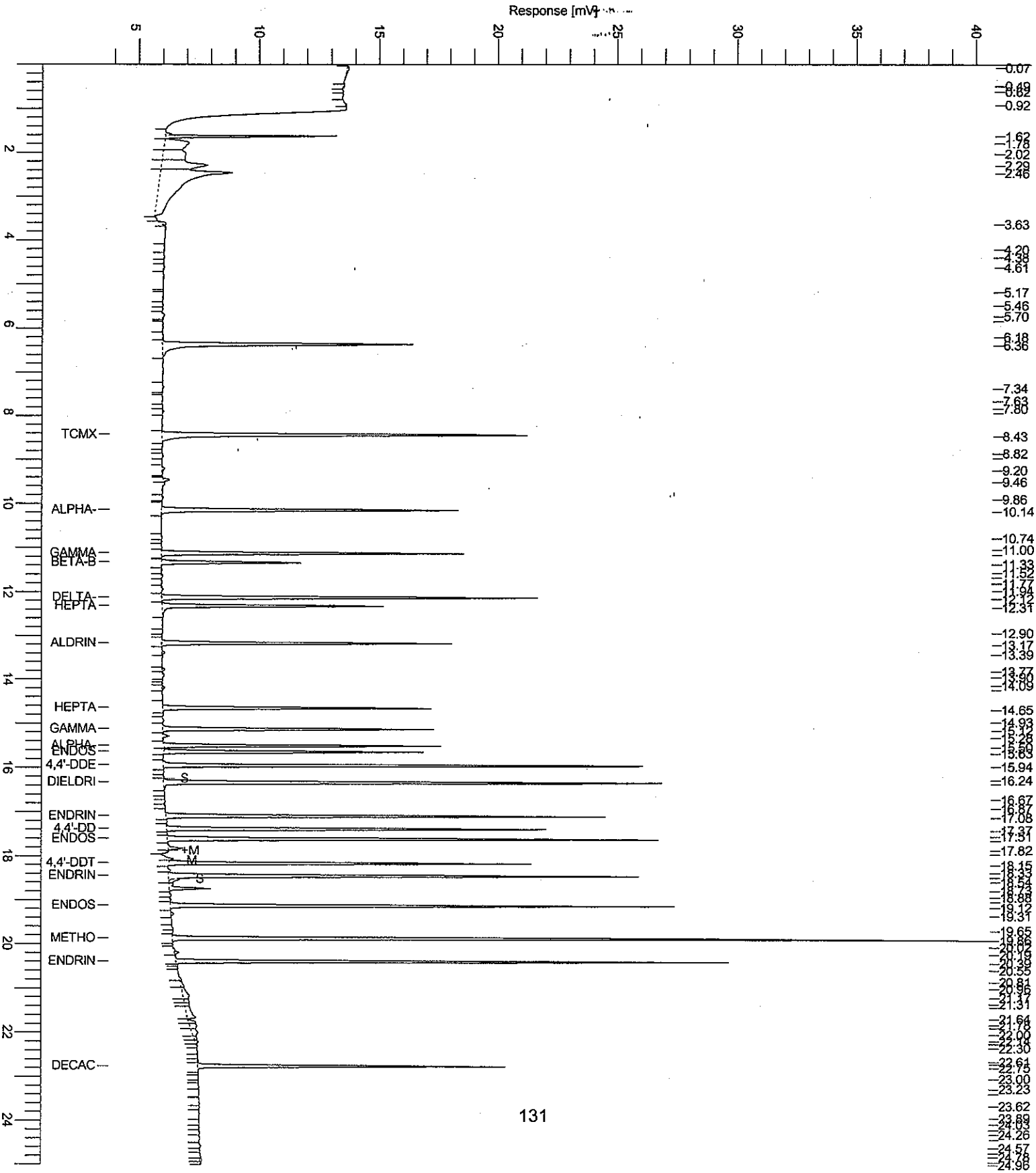
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.429	52996.00	4.2483	1.000	1	4.25
alpha-BHC	10.139	38537.00	2.0355	1.000	1	2.04
gamma-BHC	11.117	35888.27	2.1045	1.000	1	2.10
beta-BHC	11.329	17241.00	2.2755	1.000	1	2.28
delta-BHC	12.121	45348.46	2.6389	1.000	1	2.64
Heptachlor	12.315	27077.00	2.2184	1.000	1	2.22
Aldrin	13.165	33651.00	2.1844	1.000	1	2.18
Heptachlor epoxide	14.646	31453.00	2.2734	1.000	1	2.27
gamma-Chlordane	15.121	31618.06	2.2677	1.000	1	2.27
alpha-Chlordane	15.499	30864.00	2.3151	1.000	1	2.32
Endosulfan I	15.634	29070.50	2.3213	1.000	1	2.32
4,4'-DDE	15.939	57152.00	4.6019	1.000	1	4.60
Dieldrin	16.322	60869.14	4.7304	1.000	1	4.73
Endrin	17.082	49871.76	5.1897	1.000	1	5.19
4,4'-DDD	17.372	44704.00	4.6399	1.000	1	4.64
Endosulfan II	17.600	55671.28	5.2008	1.000	1	5.20
4,4'-DDT	18.153	39917.34	5.0222	1.000	1	5.02
Endrin aldehyde	18.436	56664.24	6.9102	1.000	1	6.91
Endosulfan sulfate	19.118	57367.60	6.2149	1.000	1	6.21
Methoxychlor	19.865	88638.00	28.0675	1.000	1	28.07
Endrin ketone	20.385	55887.50	5.6389	1.000	1	5.64
Decachlorobiphenyl	22.748	32889.62	5.4861	1.000	1	5.49
		973376.77	108.5857			108.59

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\219b010p.TX0

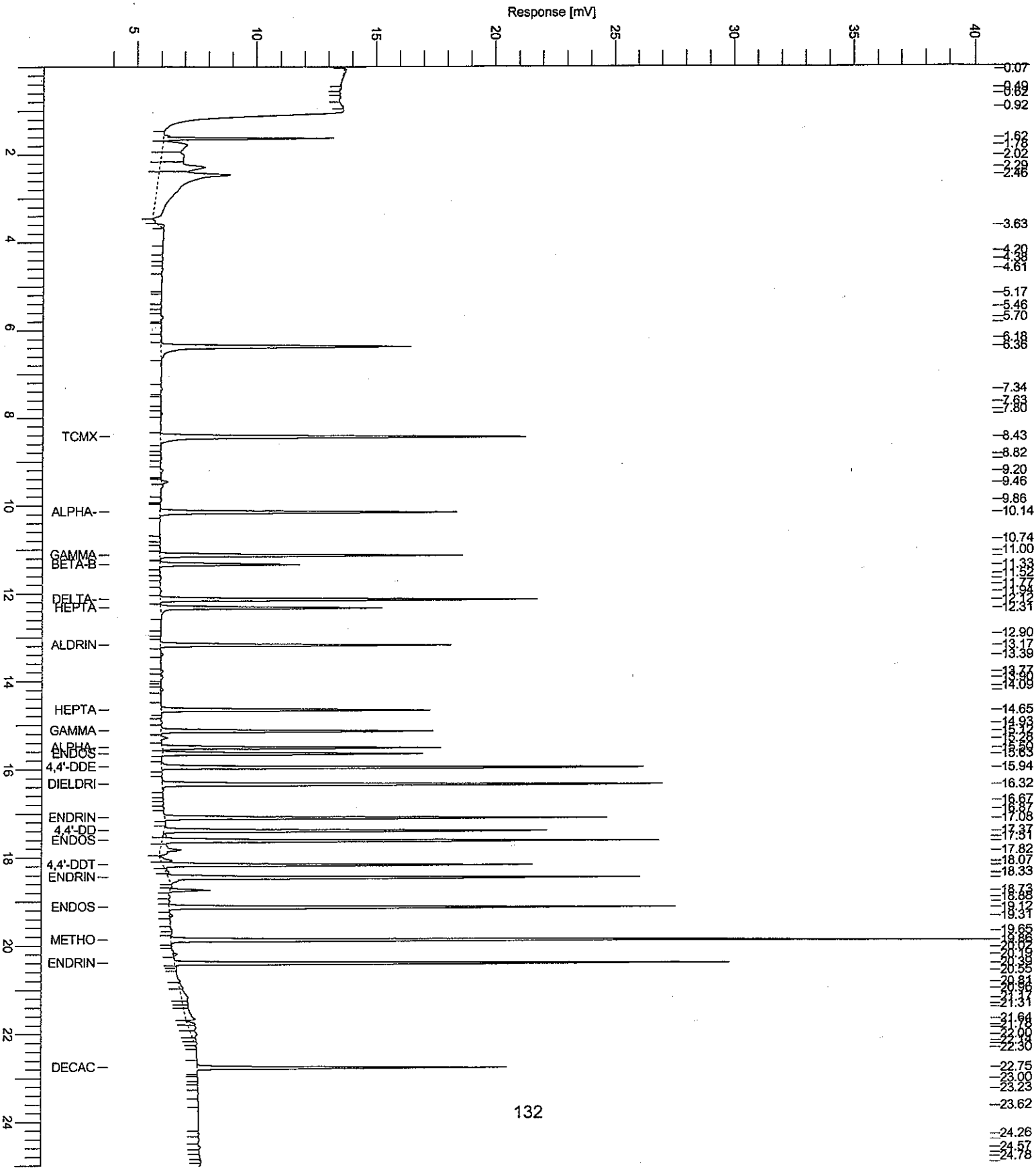
GC23 Rtx-CLPesticides2

ample Name : ical,04ws0929,pest_1 Sample #: level 1 Page 1 of 1
leName : G:\gc23\CHb\219b010.raw
ate : 8/9/04 9:35:51 AM
ethod :
Time of Injection: 8/6/04 11:27:45 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 3.78 mV High Point : 40.79 mV
ot Offset: 3.78 mV Plot Scale: 37.0 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws0929,pest_1 Sample #: level 1 Page 1 of 1
ileName : G:\gc23\CHb\219b010
ate : 8/9/04 9:06:37 AM
lethod : gc23ins Time of Injection: 8/6/04 11:27:45 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.87 mV High Point : 40.79 mV
cale Factor: 1.0 Plot Offset: 3.87 mV Plot Scale: 36.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0928,pest_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 8/9/04 9:13:36 AM
Data Acquisition Time : 8/6/04 11:57:04 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a011p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.453	115965.05	10.1962	1.000	1	10.20
alpha-BHC	10.097	85331.00	4.9181	1.000	1	4.92
gamma-BHC	10.997	78444.89	5.0116	1.000	1	5.01
beta-BHC	11.253	35713.05	5.2579	1.000	1	5.26
delta-BHC	11.747	83798.59	5.2725	1.000	1	5.27
Heptachlor	12.313	70003.00	5.1216	1.000	1	5.12
Aldrin	13.121	73282.97	5.1668	1.000	1	5.17
Heptachlor epoxide	14.730	66583.02	5.1075	1.000	1	5.11
gamma-Chlordane	15.048	65838.73	4.9926	1.000	1	4.99
alpha-Chlordane	15.385	63852.00	5.0842	1.000	1	5.08
4,4'-DDE	15.580	116532.00	9.7568	1.000	1	9.76
Endosulfan I	15.738	61837.50	5.1079	1.000	1	5.11
Dieldrin	16.349	126066.00	10.0586	1.000	1	10.06
Endrin	16.934	100638.50	11.1475	1.000	1	11.15
4,4'-DDD	17.087	91590.00	9.5272	1.000	1	9.53
Endosulfan II	17.502	107065.00	10.1175	1.000	1	10.12
4,4'-DDT	17.783	89875.53	10.5587	1.000	1	10.56
Endrin aldehyde	18.553	90317.69	10.6723	1.000	1	10.67
Methoxychlor	18.980	182208.13	54.1444	1.000	1	54.14
Endosulfan sulfate	19.644	94343.92	10.5244	1.000	1	10.52
Endrin ketone	20.301	107495.72	10.1185	1.000	1	10.12
Decachlorobiphenyl	22.153	63542.90	9.8171	1.000	1	9.82
		1970325.19	217.6799			217.68

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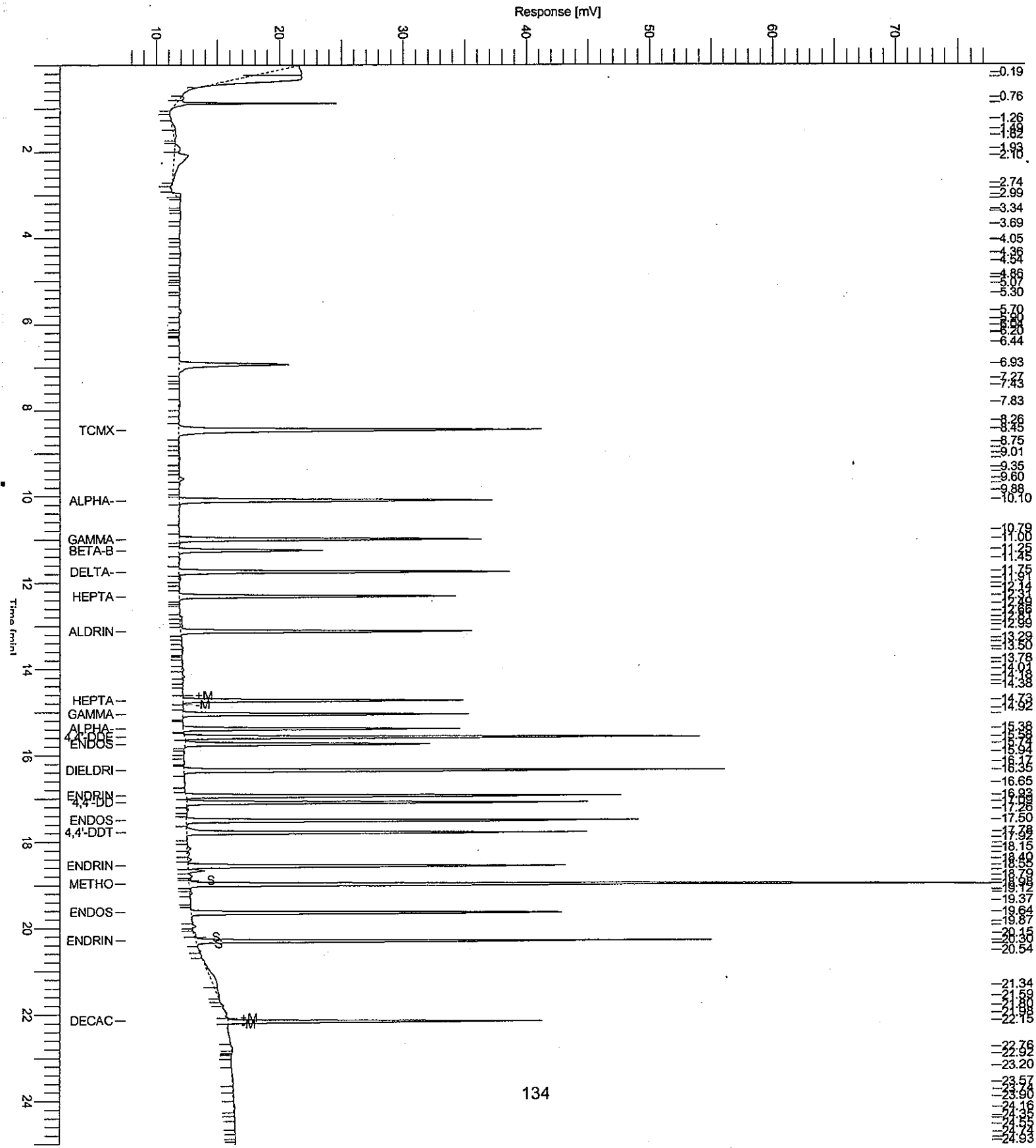
Report stored in ASCII file: G:\gc23\CHA\219a011p.TX0

RA
9/9/04

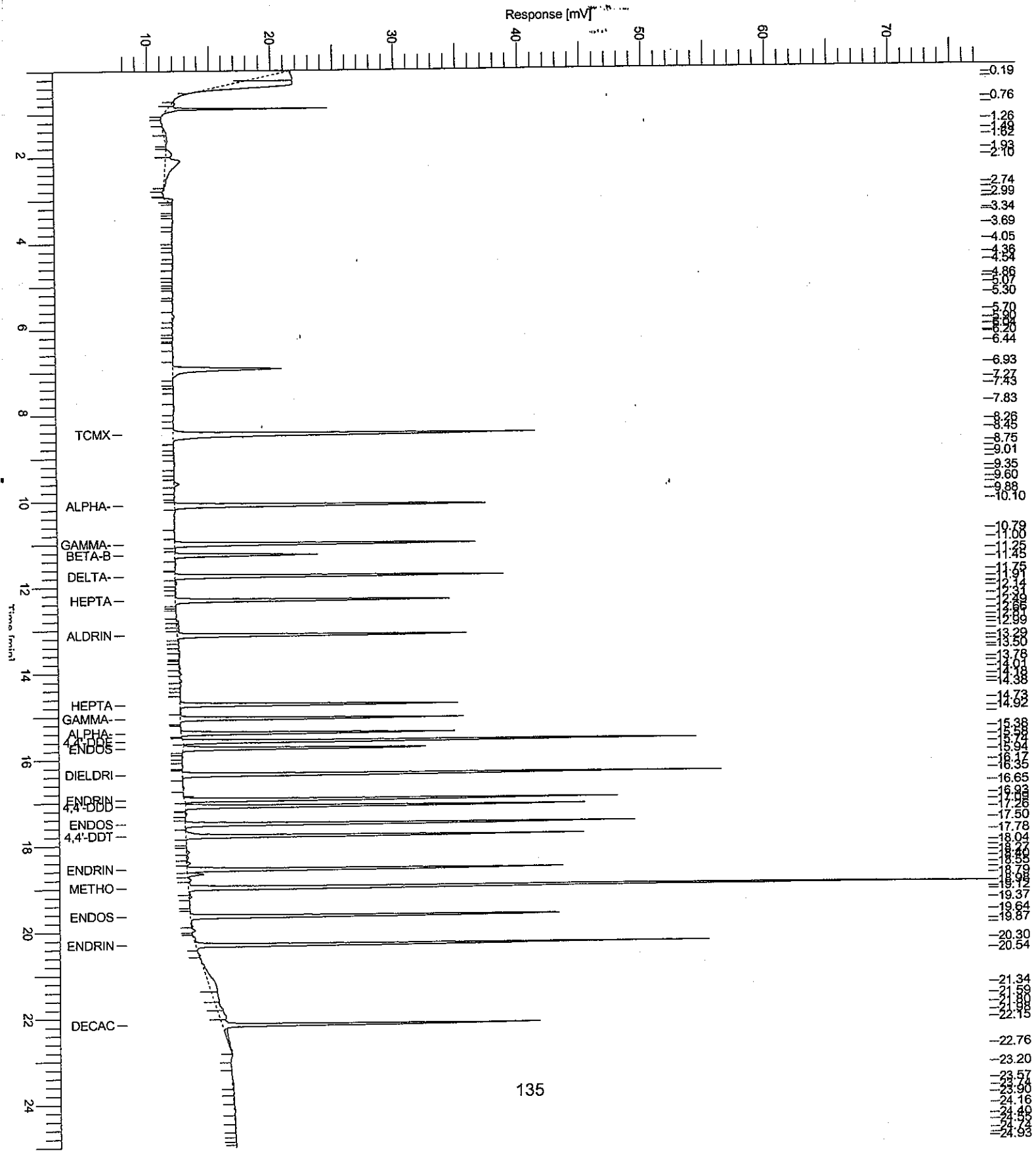
GC23 Rtx-CLPesticides

ample Name : ical,04ws0928,pest_2 Sample #: level 2 Page 1 of 1
leName : G:\gc23\CHA\219a011.raw
ate : 8/9/04 9:13:41 AM
ethod : Time of Injection: 8/6/04 11:57:04 PM
lart Time : 0.00 min End Time : 25.00 min Low Point : 7.55 mV High Point : 77.56 mV
lot Offset: 7.55 mV Plot Scale: 70.0 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws0928,pest_2 Sample #: level 2 Page 1 of 1
eName : G:\gc23\CHA\219a011.raw
te : 8/9/04 9:05:44 AM
thod : gc23ins Time of Injection: 8/6/04 11:57:04 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : 7.73 mV High Point : 77.56 mV
ale Factor: 1.0 Plot Offset: 7.73 mV Plot Scale: 69.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0928,pest_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 8/9/04 9:21:38 AM
Data Acquisition Time : 8/6/04 11:57:04 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b011p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.421	127737.73	10.2399	1.000	1	10.24
alpha-BHC	10.136	94922.00	5.0136	1.000	1	5.01
gamma-BHC	11.115	87448.19	5.1281	1.000	1	5.13
beta-BHC	11.321	41509.34	5.4784	1.000	1	5.48
delta-BHC	12.118	94322.00	5.4887	1.000	1	5.49
Heptachlor	12.312	66734.00	5.4675	1.000	1	5.47
Aldrin	13.163	83119.15	5.3956	1.000	1	5.40
Heptachlor epoxide	14.639	77882.00	5.6293	1.000	1	5.63
gamma-Chlordane	15.118	77574.50	5.5639	1.000	1	5.56
alpha-Chlordane	15.496	75594.00	5.6704	1.000	1	5.67
Endosulfan I	15.631	71252.00	5.6896	1.000	1	5.69
4,4'-DDE	15.936	142775.00	11.4964	1.000	1	11.50
Dieldrin	16.319	150078.00	11.6633	1.000	1	11.66
Endrin	17.080	123730.63	12.8754	1.000	1	12.88
4,4'-DDD	17.369	111716.66	11.5953	1.000	1	11.60
Endosulfan II	17.598	128722.00	12.0253	1.000	1	12.03
4,4'-DDT	18.151	101312.03	12.7465	1.000	1	12.75
Endrin aldehyde	18.435	108784.57	13.2663	1.000	1	13.27
Endosulfan sulfate	19.116	118434.40	12.8306	1.000	1	12.83
Methoxychlor	19.864	217762.71	68.9553	1.000	1	68.96
Endrin ketone	20.386	124357.09	12.5474	1.000	1	12.55
Decachlorobiphenyl	22.750	80609.03	13.4458	1.000	1	13.45
		2306377.02	258.2123			258.21

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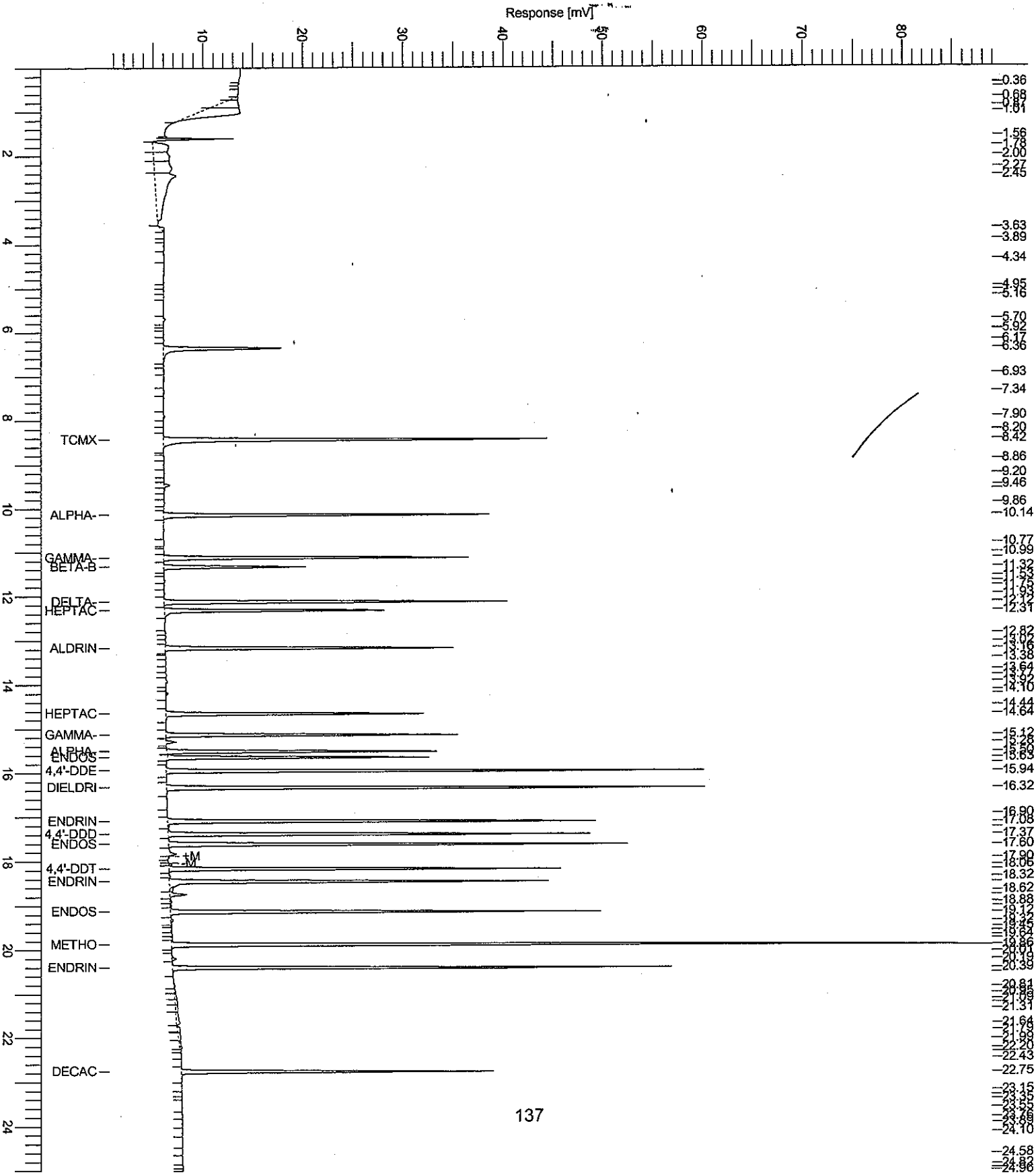
Report stored in ASCII file: G:\gc23\CHB\219b011p.TX0

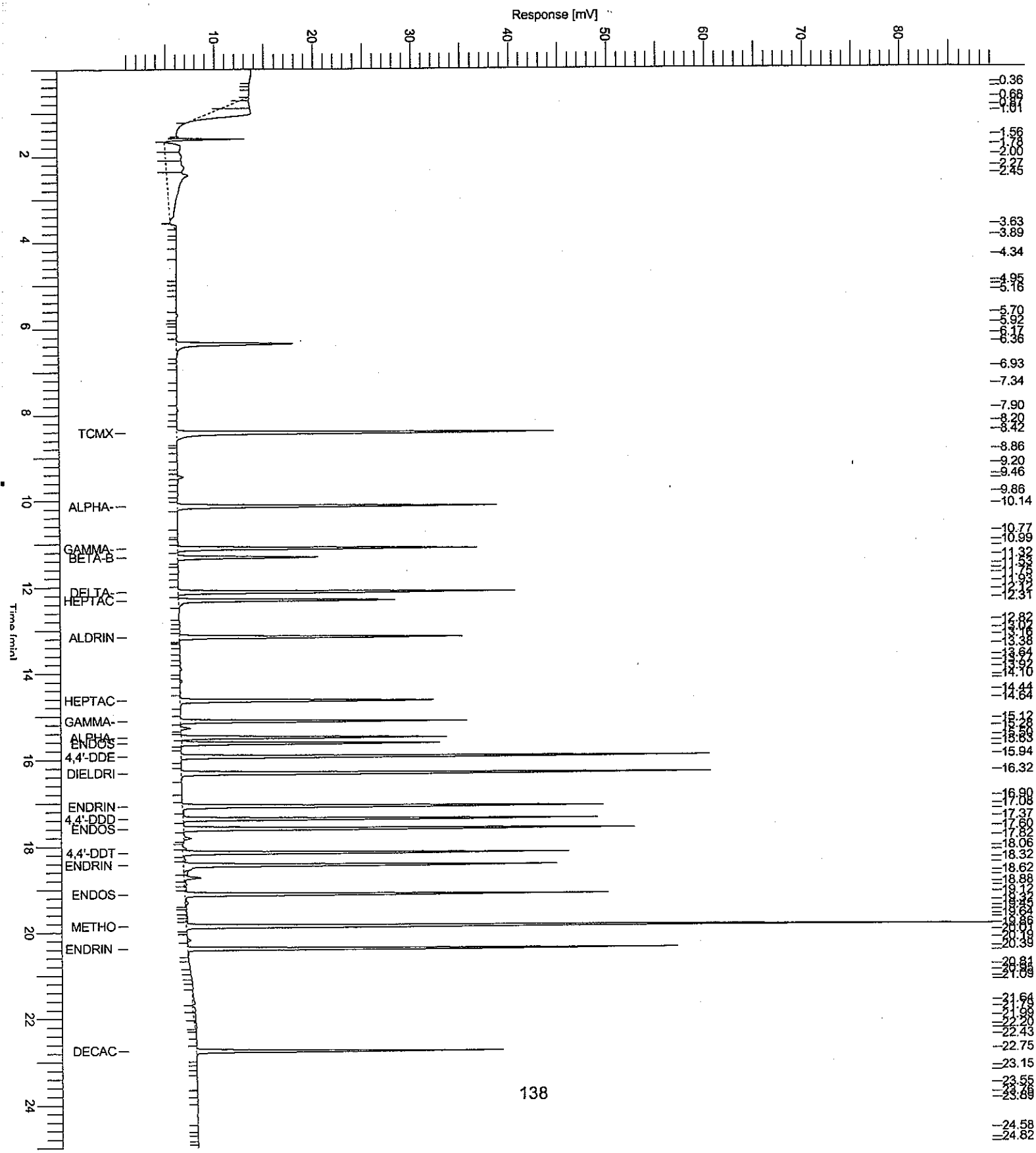
GC23 Rtx-CLPesticides2

ımple Name : ical,04ws0928,pest_2 Sample #: level 2 Page 1 of 1
eName : G:\gc23\CHb\219b011.raw
ate : 8/9/04 9:21:42 AM
ethod : Time of Injection: 8/6/04 11:57:04 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 0.48 mV High Point : 89.02 mV
ot Offset: 0.48 mV Plot Scale: 88.5 mV



GC23 Rtx-CLPesticides2

ımple Name : ical,04ws0928,pest_2 Sample #: level 2 Page 1 of 1
eName : G:\gc23\CHb\219b011
ıte : 8/9/04 9:06:42 AM
ethod : gc23ins Time of Injection: 8/6/04 11:57:04 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 0.70 mV High Point : 89.02 mV
ale Factor: 1.0 Plot Offset: 0.70 mV Plot Scale: 88.3 mV



Software Version	: 6.1.2.0.1:D19	Date	: 8/9/04 9:15:33 AM
Sample Name	: ical,04ws1385,pest_3	Data Acquisition Time	: 8/7/04 12:26:22 AM
Instrument Name	: GC23	Channel	: A
Rack/Vial	: 0/0	Operator	: analyst
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 12		

Result File : G:\gc23\CHA\219a012p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.450	210658.00	18.5221	1.000	1	18.52
alpha-BHC	10.090	158903.06	9.1585	1.000	1	9.16
gamma-BHC	10.994	142391.00	9.0969	1.000	1	9.10
beta-BHC	11.250	62341.89	9.1784	1.000	1	9.18
delta-BHC	11.745	144048.59	9.0633	1.000	1	9.06
Heptachlor	12.311	127703.00	9.3431	1.000	1	9.34
Aldrin	13.119	130082.78	9.1714	1.000	1	9.17
Heptachlor epoxide	14.728	119489.00	9.1659	1.000	1	9.17
gamma-Chlordane	15.047	117319.53	8.8964	1.000	1	8.90
alpha-Chlordane	15.383	113215.00	9.0147	1.000	1	9.01
4,4'-DDE	15.578	207352.00	17.3607	1.000	1	17.36
Endosulfan I	15.737	107591.00	8.8873	1.000	1	8.89
Dieldrin	16.348	222073.09	17.7188	1.000	1	17.72
Endrin	16.933	176148.50	19.5115	1.000	1	19.51
4,4'-DDD	17.086	157786.00	16.4129	1.000	1	16.41
Endosulfan II	17.501	182167.00	17.2146	1.000	1	17.21
4,4'-DDT	17.782	154650.00	18.1685	1.000	1	18.17
Endrin aldehyde	18.552	143900.17	17.0039	1.000	1	17.00
Methoxychlor	18.979	302738.30	89.9607	1.000	1	89.96
Endosulfan sulfate	19.638	152962.36	17.0635	1.000	1	17.06
Endrin ketone	20.299	175791.73	16.5472	1.000	1	16.55
Decachlorobiphenyl	22.153	105520.86	16.3025	1.000	1	16.30
		3414832.85	372.7628			372.76

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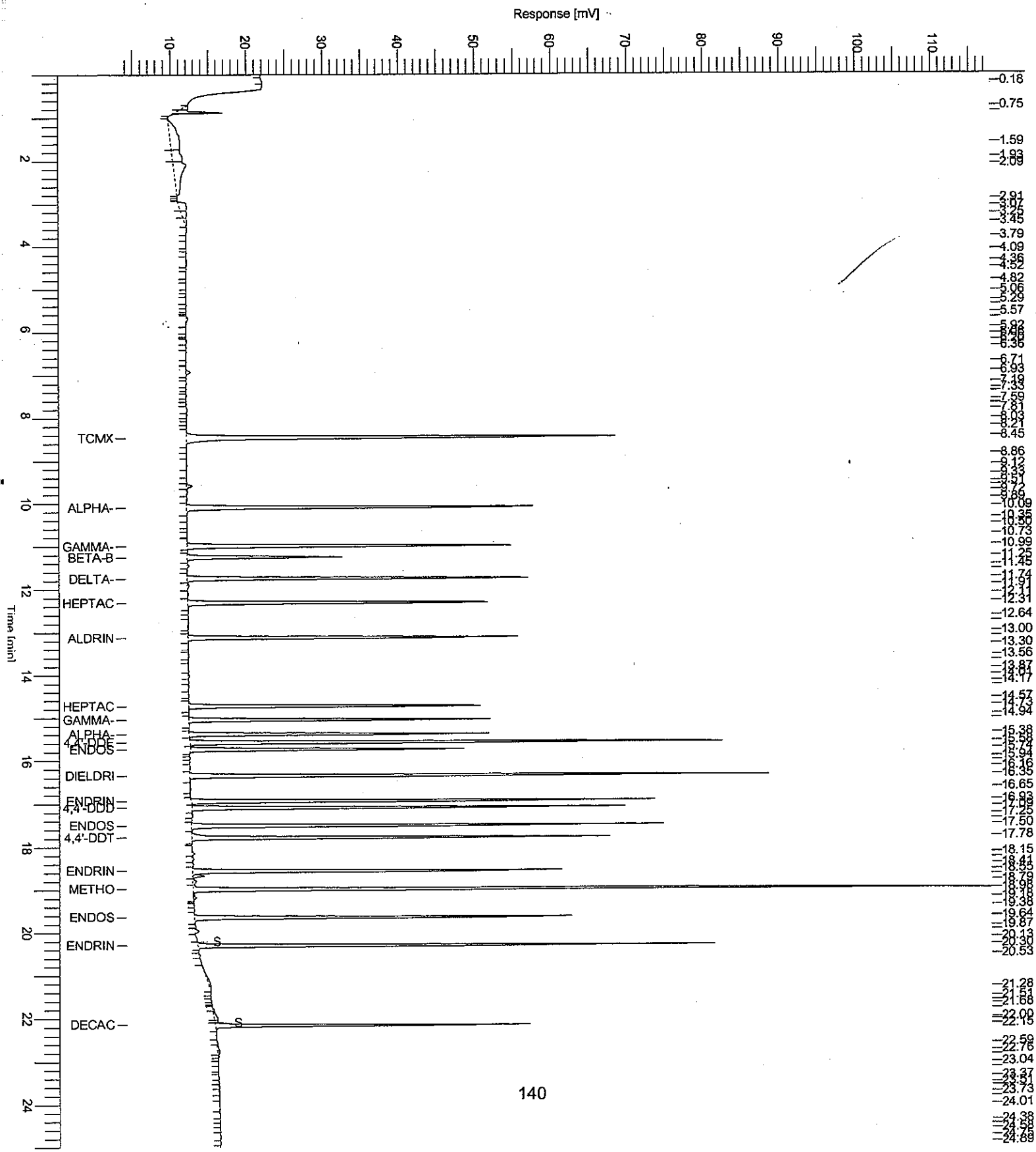
Report stored in ASCII file: G:\gc23\CHA\219a012p.TX0

RA
8/9/04

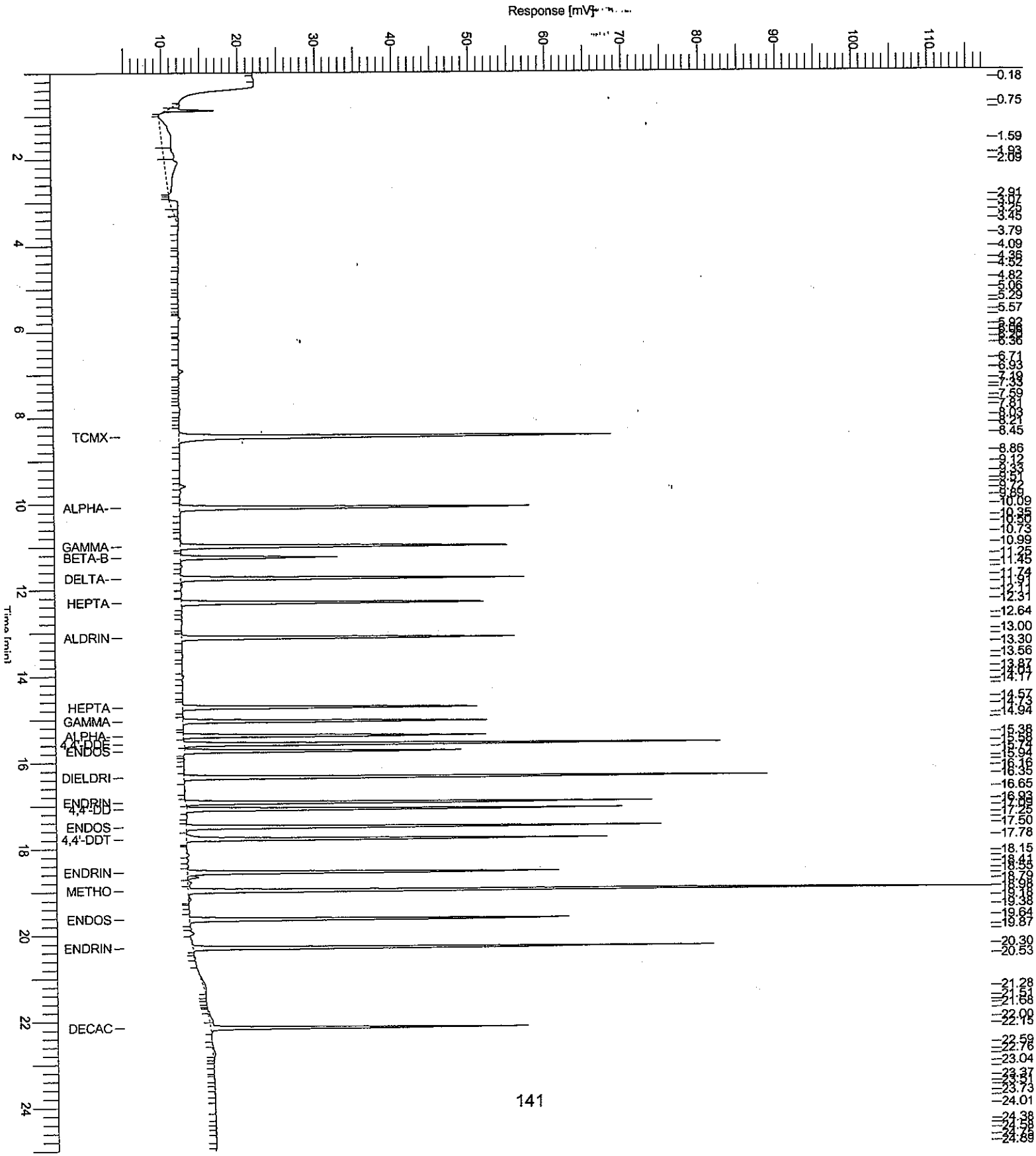
GC23 Rtx-CLPesticides

ample Name : ic-al,04ws1385,pest_3 Sample #: level 3 Page 1 of 1
leName : G:\gc23\CHA\219a012.raw
ate : 8/9/04 9:15:38 AM
ethod : Time of Injection: 8/7/04 12:26:22 AM
lart Time : 0.00 min End Time : 25.00 min Low Point : 3.97 mV High Point : 117.90 mV
lot Offset: 3.97 mV Plot Scale: 113.9 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws1385,pest_3 Sample #: level 3 Page 1 of 1
eName : G:\gc23\CHA\219a012.raw
te : 8/9/04 9:05:49 AM
thod : gc23ins Time of Injection: 8/7/04 12:26:22 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 4.26 mV High Point : 117.90 mV
ale Factor: 1.0 Plot Offset: 4.26 mV Plot Scale: 113.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1385,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 8/9/04 9:22:30 AM
Data Acquisition Time : 8/7/04 12:26:22 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b012p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

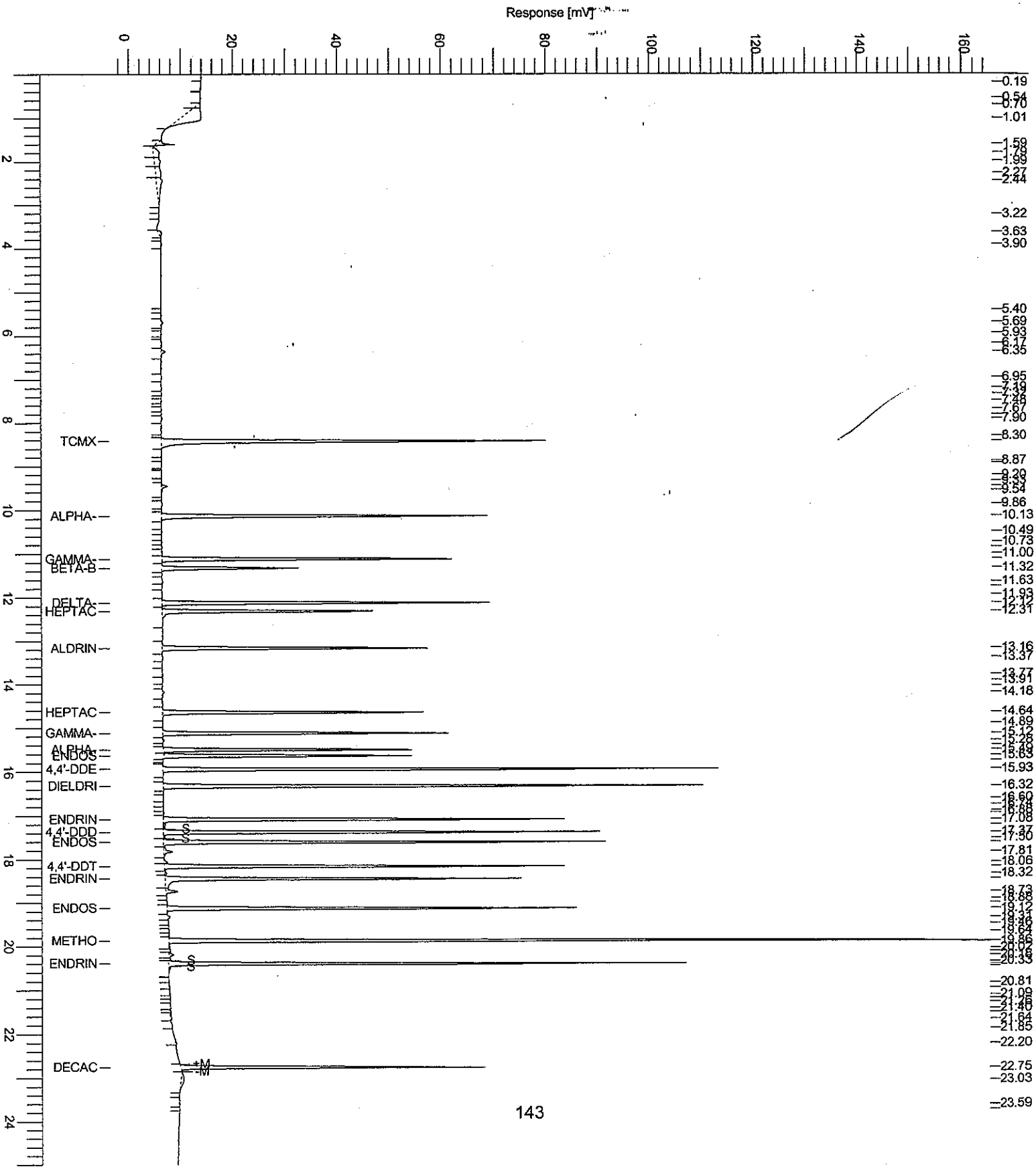
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.419	240971.50	19.3171	1.000	1	19.32
alpha-BHC	10.134	181801.50	9.6024	1.000	1	9.60
gamma-BHC	11.113	164941.37	9.6724	1.000	1	9.67
beta-BHC	11.319	74921.00	9.8881	1.000	1	9.89
delta-BHC	12.117	172047.00	10.0115	1.000	1	10.01
Heptachlor	12.306	129281.00	10.5920	1.000	1	10.59
Aldrin	13.161	154870.50	10.0532	1.000	1	10.05
Heptachlor epoxide	14.637	144505.77	10.4449	1.000	1	10.44
gamma-Chlordane	15.117	146223.86	10.4876	1.000	1	10.49
alpha-Chlordane	15.494	140839.00	10.5645	1.000	1	10.56
Endosulfan I	15.630	132497.00	10.5801	1.000	1	10.58
4,4'-DDE	15.935	273094.50	21.9899	1.000	1	21.99
Dieldrin	16.317	281404.00	21.8693	1.000	1	21.87
Endrin	17.079	229833.68	23.9165	1.000	1	23.92
4,4'-DDD	17.368	218123.19	22.6394	1.000	1	22.64
Endosulfan II	17.596	244782.55	22.8677	1.000	1	22.87
4,4'-DDT	18.150	198432.21	24.9656	1.000	1	24.97
Endrin aldehyde	18.434	196369.04	23.9472	1.000	1	23.95
Endosulfan sulfate	19.115	216851.00	23.4926	1.000	1	23.49
Methoxychlor	19.863	429324.39	135.9469	1.000	1	135.95
Endrin ketone	20.384	239506.72	24.1658	1.000	1	24.17
Decachlorobiphenyl	22.748	150608.92	25.1219	1.000	1	25.12
		4361229.72	492.1365			492.14

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\219b012p.TX0

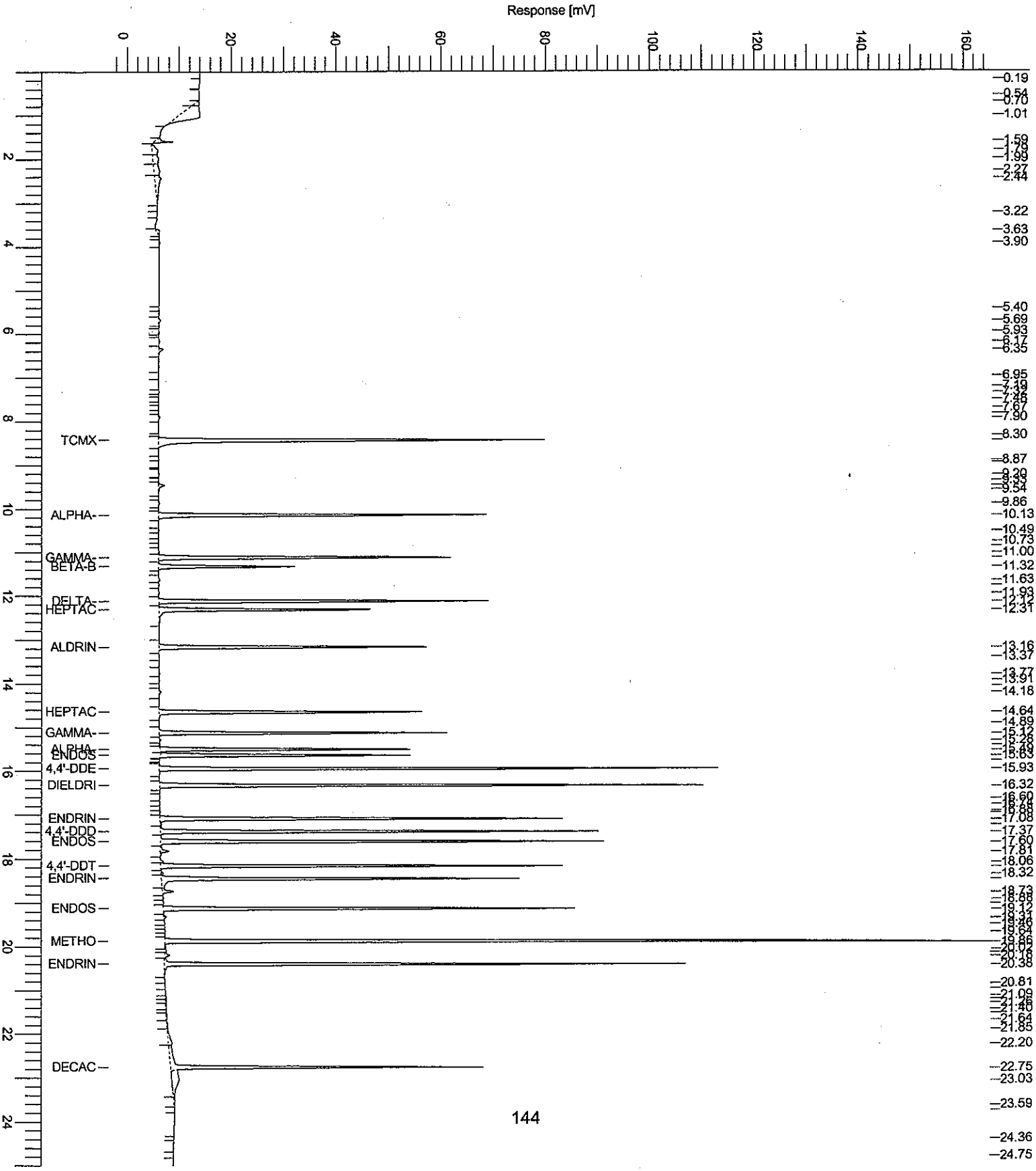
GC23 Rtx-CLPesticides2

mple Name : ical,04ws1385,pest_3 Sample #: level 3 Page 1 of 1
eName : G:\gc23\CHb\219b012.raw
ıte : 8/9/04 9:22:34 AM
ıthod : Time of Injection: 8/7/04 12:26:22 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -3.88 mV High Point : 165.89 mV
ot Offset: -3.88 mV Plot Scale: 169.8 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1385,pest_3 Sample #: level 3 Page 1 of 1
leName : G:\gc23\CHb\219b012
ate : 8/9/04 9:06:47 AM
ethod : gc23ins Time of Injection: 8/7/04 12:26:22 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.46 mV High Point : 165.89 mV
cale Factor: 1.0 Plot Offset: -3.46 mV Plot Scale: 169.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 8/9/04 9:16:30 AM
Data Acquisition Time : 8/7/04 12:55:43 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a013p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.452	428037.00	37.6351	1.000	1	37.64
alpha-BHC	10.097	331986.00	19.1343	1.000	1	19.13
gamma-BHC	10.997	299221.82	19.1164	1.000	1	19.12
beta-BHC	11.252	129578.47	19.0773	1.000	1	19.08
delta-BHC	11.747	298319.44	18.7699	1.000	1	18.77
Heptachlor	12.313	267405.12	19.5642	1.000	1	19.56
Aldrin	13.121	267334.75	18.8483	1.000	1	18.85
Heptachlor epoxide	14.729	242034.26	18.5662	1.000	1	18.57
gamma-Chlordane	15.047	240424.50	18.2316	1.000	1	18.23
alpha-Chlordane	15.384	229835.92	18.3005	1.000	1	18.30
4,4'-DDE	15.579	437344.50	36.6171	1.000	1	36.62
Endosulfan I	15.738	218534.00	18.0515	1.000	1	18.05
Dieldrin	16.349	468585.29	37.3876	1.000	1	37.39
Endrin	16.934	368039.00	40.7667	1.000	1	40.77
4,4'-DDD	17.086	326877.50	34.0017	1.000	1	34.00
Endosulfan II	17.501	374383.00	35.3788	1.000	1	35.38
4,4'-DDT	17.782	334395.00	39.2851	1.000	1	39.29
Endrin aldehyde	18.552	280163.91	33.1054	1.000	1	33.11
Methoxychlor	18.980	653122.26	194.0796	1.000	1	194.08
Endosulfan sulfate	19.639	306148.68	34.1520	1.000	1	34.15
Endrin ketone	20.300	363352.71	34.2022	1.000	1	34.20
Decachlorobiphenyl	22.155	213243.55	32.9452	1.000	1	32.95
		7078366.70	777.2166			777.22

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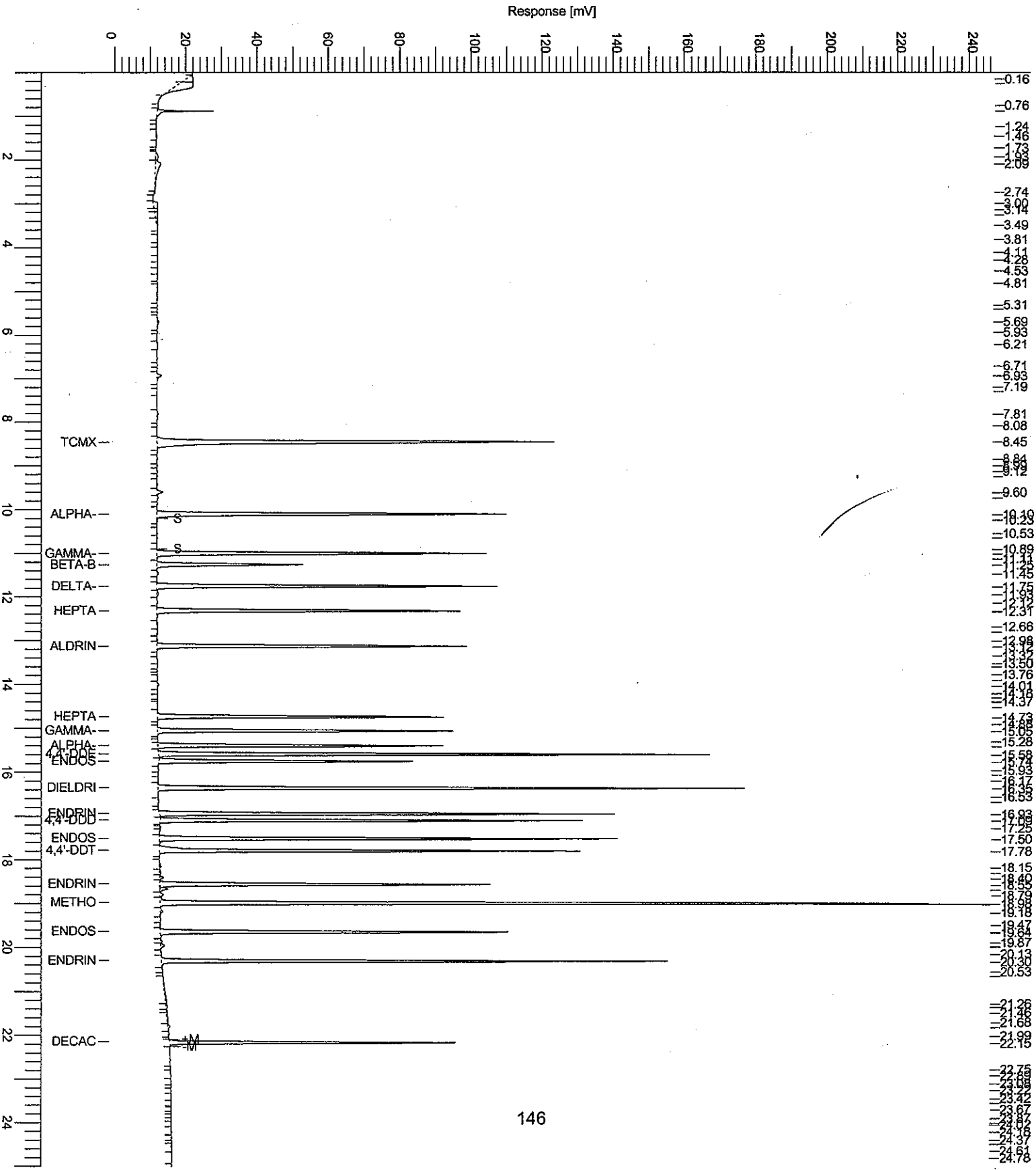
Report stored in ASCII file: G:\gc23\CHA\219a013p.TX0

RA
8/9/04

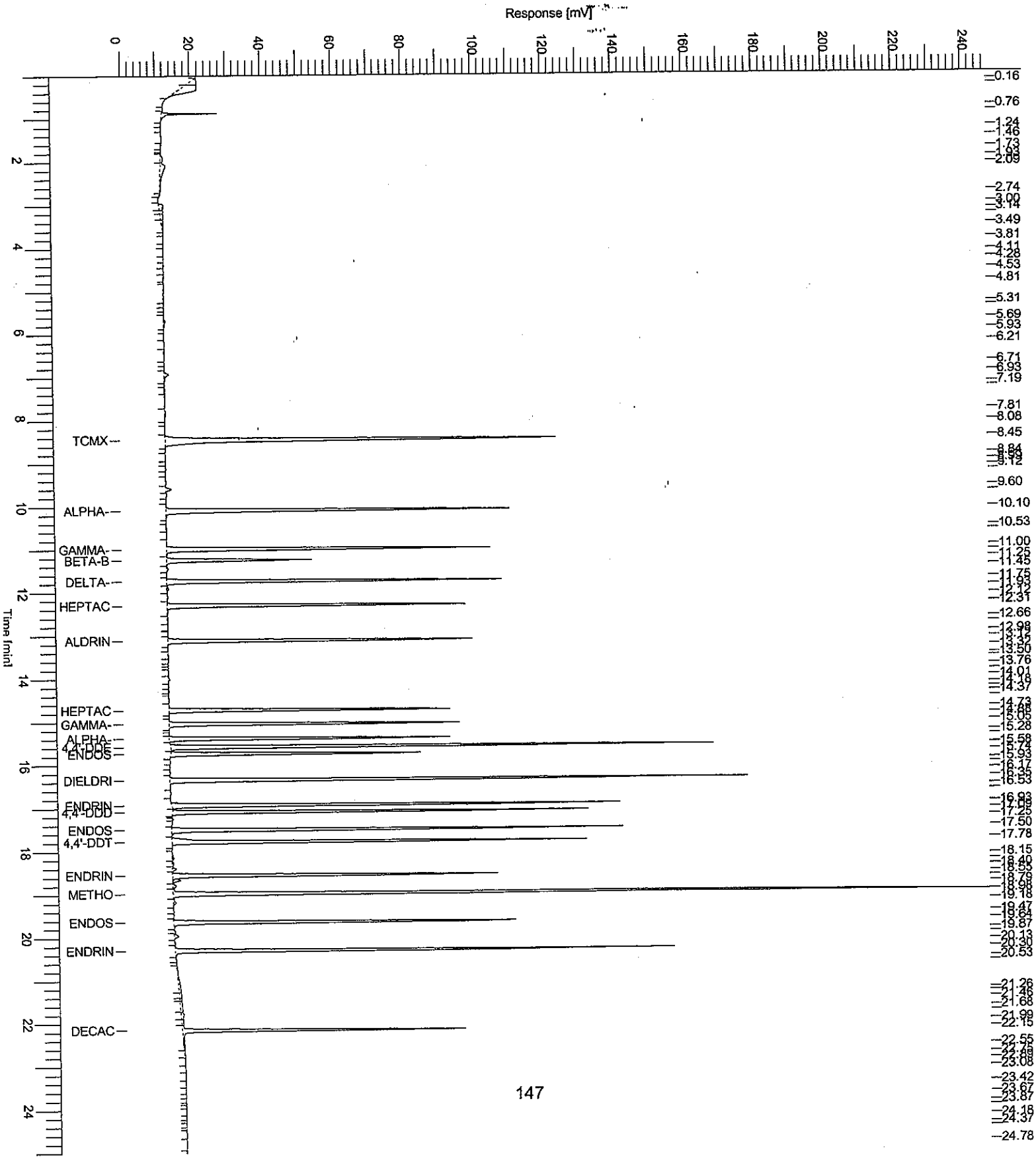
GC23 Rtx-CLPesticides

ımple Name : ical,04ws0926,pest_4 Sample #: level 4 Page 1 of 1
eName : G:\gc23\CHA\219a013.raw
ıte : 8/9/04 9:16:35 AM
ethod :
Time of Injection: 8/7/04 12:55:43 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -1.71 mV High Point : 247.24 mV
ot Offset: -1.71 mV Plot Scale: 248.9 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws0926,pest_4 Sample #: level 4 Page 1 of 1
eName : G:\gc23\CHA\219a013.raw
te : 8/9/04 9:05:54 AM
thod : gc23ins Time of Injection: 8/7/04 12:55:43 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -1.09 mV High Point : 247.24 mV
ale Factor: 1.0 Plot Offset: -1.09 mV Plot Scale: 248.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 8/9/04 9:23:58 AM
Data Acquisition Time : 8/7/04 12:55:43 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b013p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.422	498667.34	39.9748	1.000	1	39.97
alpha-BHC	10.136	389302.45	20.5623	1.000	1	20.56
gamma-BHC	11.115	352062.56	20.6454	1.000	1	20.65
beta-BHC	11.321	157016.50	20.7231	1.000	1	20.72
delta-BHC	12.118	363560.50	21.1558	1.000	1	21.16
Heptachlor	12.313	277162.50	22.7079	1.000	1	22.71
Aldrin	13.163	324191.00	21.0444	1.000	1	21.04
Heptachlor epoxide	14.639	296657.00	21.4424	1.000	1	21.44
gamma-Chlordane	15.118	302310.88	21.6826	1.000	1	21.68
alpha-Chlordane	15.495	288930.00	21.6729	1.000	1	21.67
Endosulfan I	15.631	271515.00	21.6809	1.000	1	21.68
4,4'-DDE	15.935	572463.37	46.0954	1.000	1	46.10
Dieldrin	16.318	591251.89	45.9490	1.000	1	45.95
Endrin	17.080	464636.32	48.3500	1.000	1	48.35
4,4'-DDD	17.369	440090.32	45.6777	1.000	1	45.68
Endosulfan II	17.597	489722.99	45.7502	1.000	1	45.75
4,4'-DDT	18.150	401313.61	50.4911	1.000	1	50.49
Endrin aldehyde	18.434	365211.56	44.5375	1.000	1	44.54
Endosulfan sulfate	19.116	426618.33	46.2177	1.000	1	46.22
Methoxychlor	19.864	871559.37	275.9821	1.000	1	275.98
Endrin ketone	20.386	466716.19	47.0907	1.000	1	47.09
Decachlorobiphenyl	22.750	276682.67	46.1513	1.000	1	46.15
		8887642.34	995.5854			995.59

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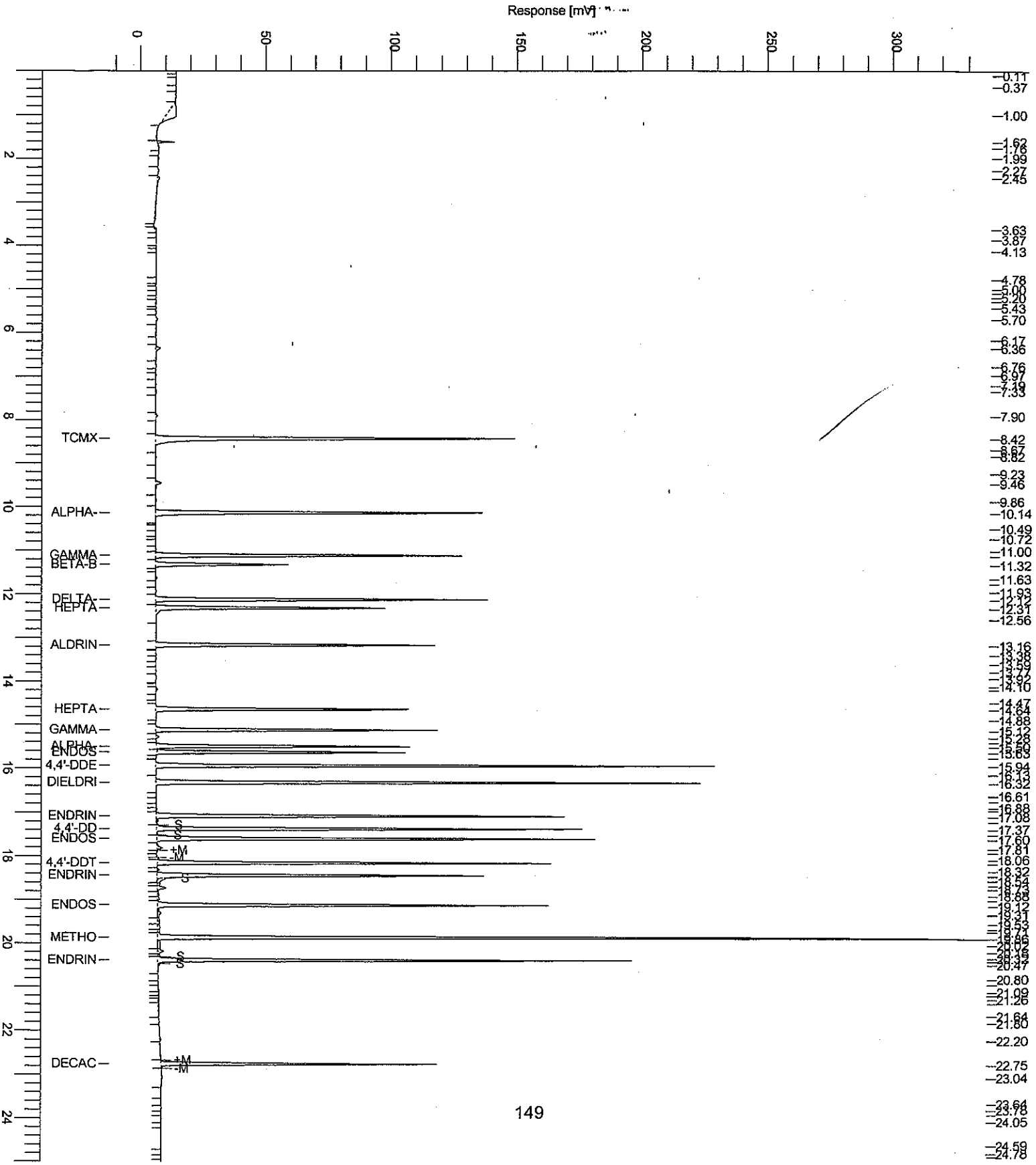
Report stored in ASCII file: G:\gc23\CHB\219b013p.TX0

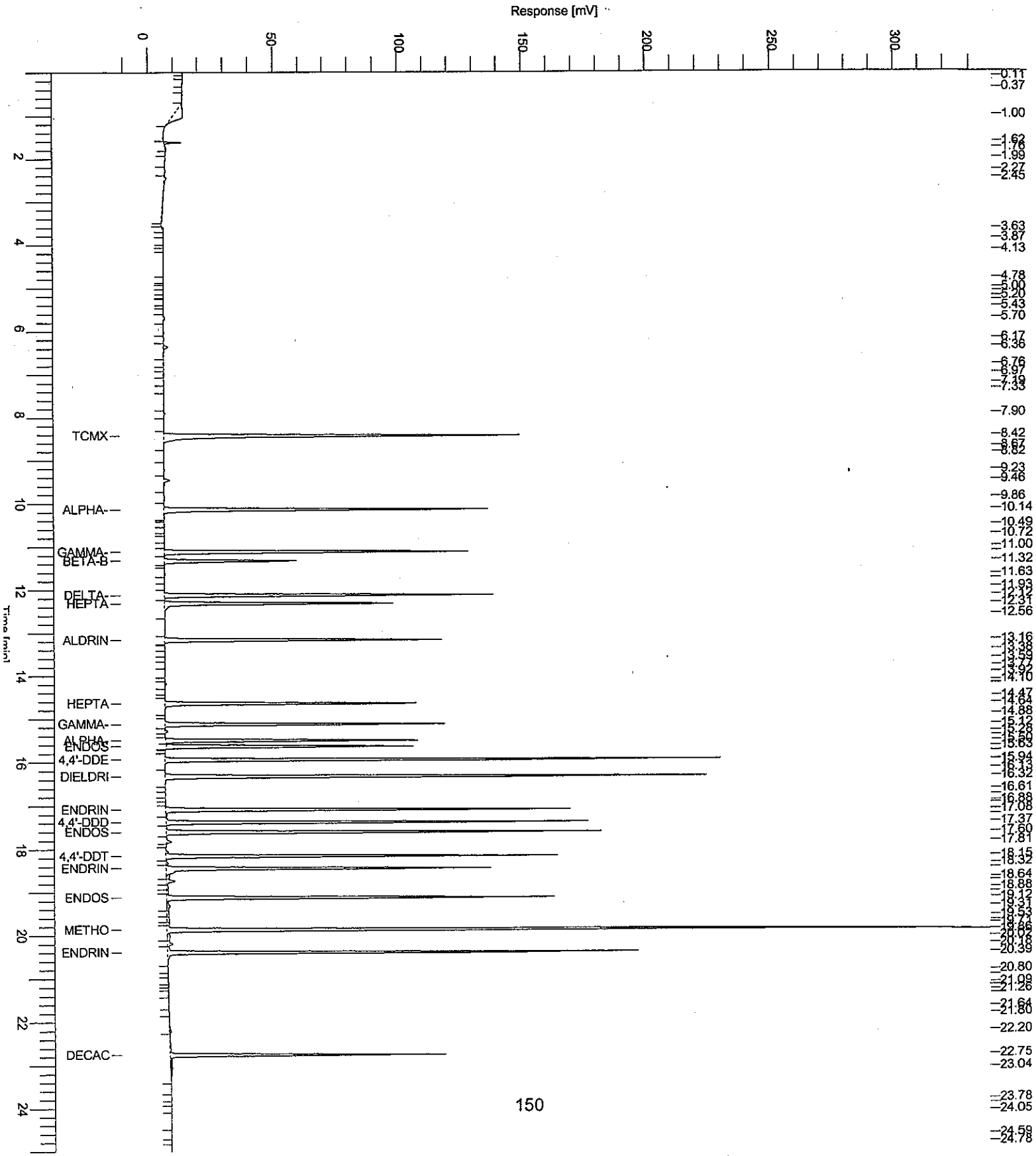
GC23 Rtx-CLPesticides2

ımple Name : ical,04ws0926,pest_4 Sample #: level 4 Page 1 of 1
eName : G:\gc23\CHb\219b013.raw
ıte : 8/9/04 9:24:03 AM
ethod : Time of Injection: 8/7/04 12:55:43 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -12.35 mV High Point : 339.50 mV
ot Offset: -12.35 mV Plot Scale: 351.8 mV



GC23 Rtx-CLPesticides2

ımple Name : ical,04ws0926,pest_4 Sample #: level 4 Page 1 of 1
eName : G:\gc23\CHb\219b013
ıte : 8/9/04 9:06:52 AM
ethod : gc23ins Time of Injection: 8/7/04 12:55:43 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -11.47 mV High Point : 339.50 mV
ale Factor: 1.0 Plot Offset: -11.47 mV Plot Scale: 351.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1375,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 8/9/04 9:17:23 AM
Data Acquisition Time : 8/7/04 1:25:01 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a014p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.450	516420.00	45.4062	1.000	1	45.41
alpha-BHC	10.094	394689.71	22.7483	1.000	1	22.75
gamma-BHC	10.994	351096.22	22.4305	1.000	1	22.43
beta-BHC	11.250	148347.38	21.8406	1.000	1	21.84
delta-BHC	11.744	347829.57	21.8850	1.000	1	21.88
Heptachlor	12.306	314132.00	22.9829	1.000	1	22.98
Aldrin	13.118	314664.00	22.1852	1.000	1	22.19
Heptachlor epoxide	14.722	286674.89	21.9905	1.000	1	21.99
gamma-Chlordane	15.045	284652.00	21.5854	1.000	1	21.59
alpha-Chlordane	15.382	271200.00	21.5941	1.000	1	21.59
4,4'-DDE	15.571	525195.00	43.9725	1.000	1	43.97
Endosulfan I	15.735	256863.00	21.2175	1.000	1	21.22
Dieldrin	16.345	557603.14	44.4902	1.000	1	44.49
Endrin	16.930	436203.00	48.3170	1.000	1	48.32
4,4'-DDD	17.083	397271.00	41.3241	1.000	1	41.32
Endosulfan II	17.498	447683.00	42.3055	1.000	1	42.31
4,4'-DDT	17.778	392727.00	46.1380	1.000	1	46.14
Endrin aldehyde	18.548	337141.39	39.8381	1.000	1	39.84
Methoxychlor	18.970	809564.42	240.5674	1.000	1	240.57
Endosulfan sulfate	19.634	371029.09	41.3897	1.000	1	41.39
Endrin ketone	20.297	439425.28	41.3628	1.000	1	41.36
Decachlorobiphenyl	22.151	248859.86	38.4478	1.000	1	38.45
		8449270.94	934.0193			934.02

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Report stored in ASCII file: G:\gc23\CHA\219a014p.TX0

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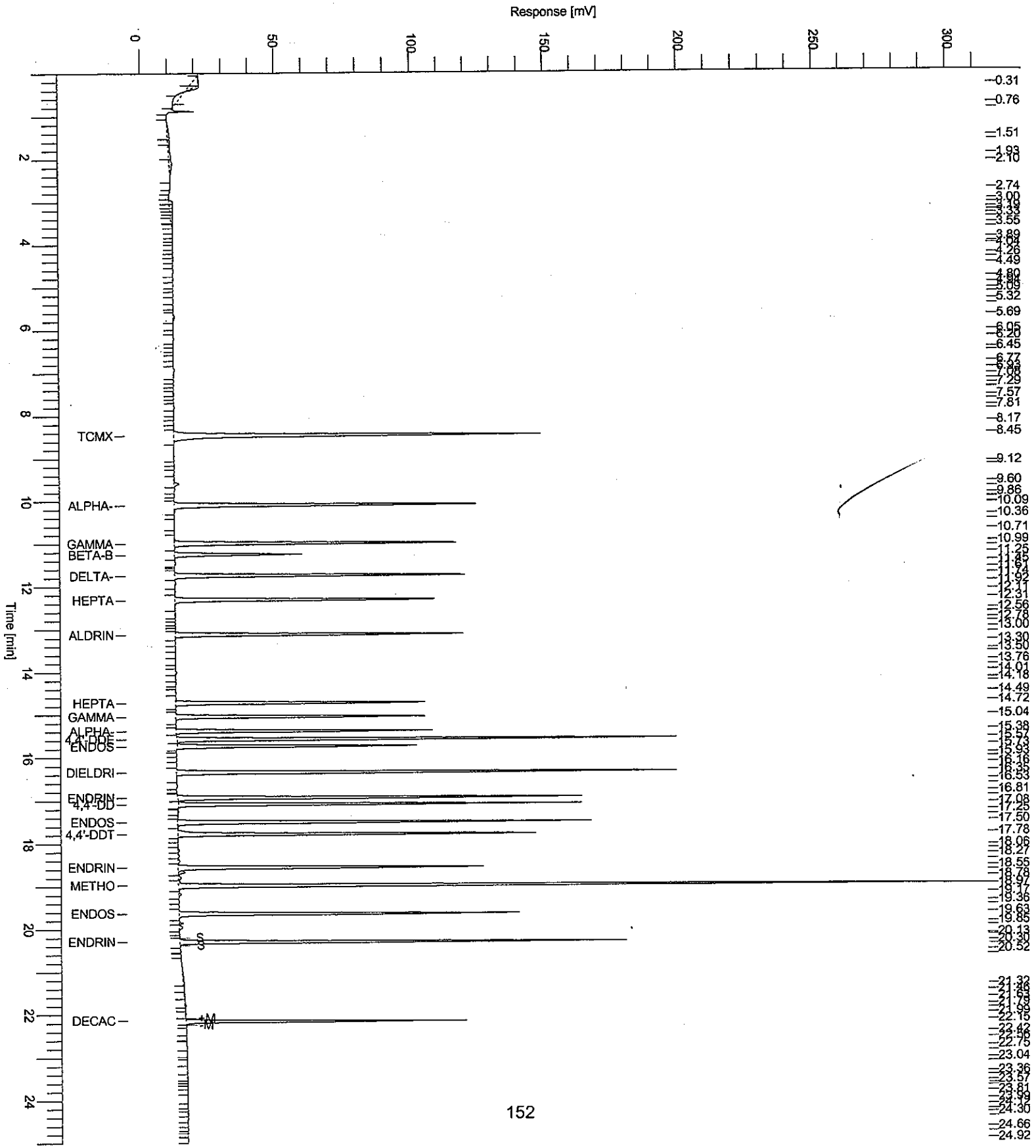
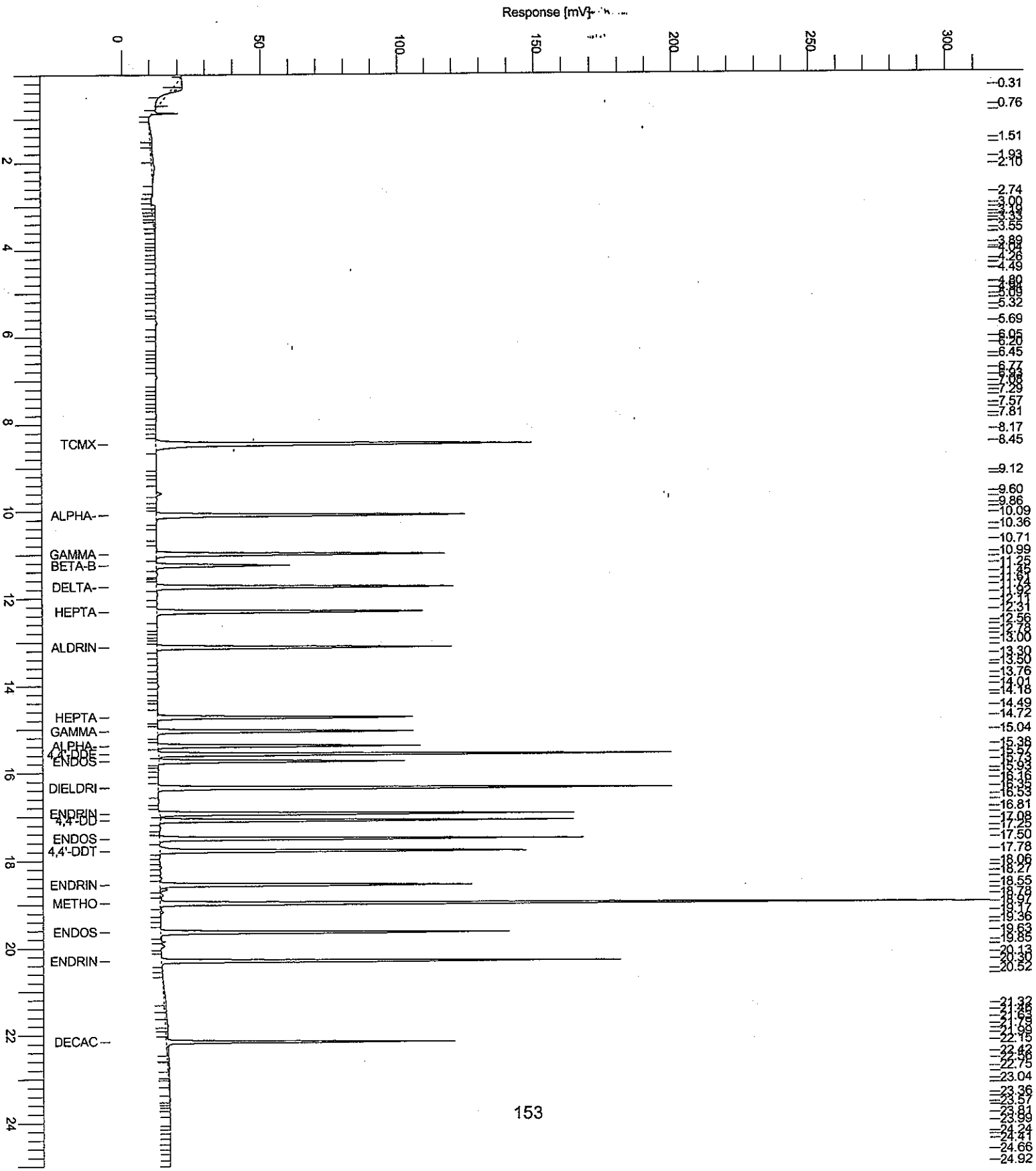
8/9/04

Sample Name : ical,04ws1375,pest_5 Sample #: level 5 Page 1 of 1
FileName : G:\gc23\CHA\219a014.raw
Date : 8/9/04 9:17:27 AM
Method : Time of Injection: 8/7/04 1:25:01 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -6.32 mV High Point : 315.51 mV
Plot Offset: -6.32 mV Plot Scale: 321.8 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws1375,pest_5 Sample #: level 5 Page 1 of 1
eName : G:\gc23\CHA\219a014.raw
ate : 8/9/04 9:06:00 AM
ethod : gc23ins Time of Injection: 8/7/04 1:25:01 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -5.51 mV High Point : 315.51 mV
ale Factor: 1.0 Plot Offset: -5.51 mV Plot Scale: 321.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1375,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 8/9/04 9:25:35 AM
Data Acquisition Time : 8/7/04 1:25:01 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b014p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.418	559747.00	44.8711	1.000	1	44.87
alpha-BHC	10.134	427864.00	22.5990	1.000	1	22.60
gamma-BHC	11.112	382329.33	22.4203	1.000	1	22.42
beta-BHC	11.319	166602.50	21.9883	1.000	1	21.99
delta-BHC	12.116	391568.00	22.7856	1.000	1	22.79
Heptachlor	12.305	299595.13	24.5458	1.000	1	24.55
Aldrin	13.155	355778.00	23.0949	1.000	1	23.09
Heptachlor epoxide	14.635	326555.50	23.6035	1.000	1	23.60
gamma-Chlordane	15.115	334191.54	23.9691	1.000	1	23.97
alpha-Chlordane	15.487	317925.00	23.8478	1.000	1	23.85
Endosulfan I	15.628	299884.00	23.9463	1.000	1	23.95
4,4'-DDE	15.932	651419.50	52.4531	1.000	1	52.45
Dieldrin	16.315	664828.00	51.6670	1.000	1	51.67
Endrin	17.071	525708.81	54.7052	1.000	1	54.71
4,4'-DDD	17.365	503229.19	52.2310	1.000	1	52.23
Endosulfan II	17.588	552819.43	51.6447	1.000	1	51.64
4,4'-DDT	18.146	466008.37	58.6306	1.000	1	58.63
Endrin aldehyde	18.430	425006.92	51.8295	1.000	1	51.83
Endosulfan sulfate	19.111	490914.03	53.1832	1.000	1	53.18
Methoxychlor	19.853	1022586.90	323.8054	1.000	1	323.81
Endrin ketone	20.382	544121.89	54.9008	1.000	1	54.90
Decachlorobiphenyl	22.745	345472.97	57.6256	1.000	1	57.63
		10054156.01	1140.3480			1140.35

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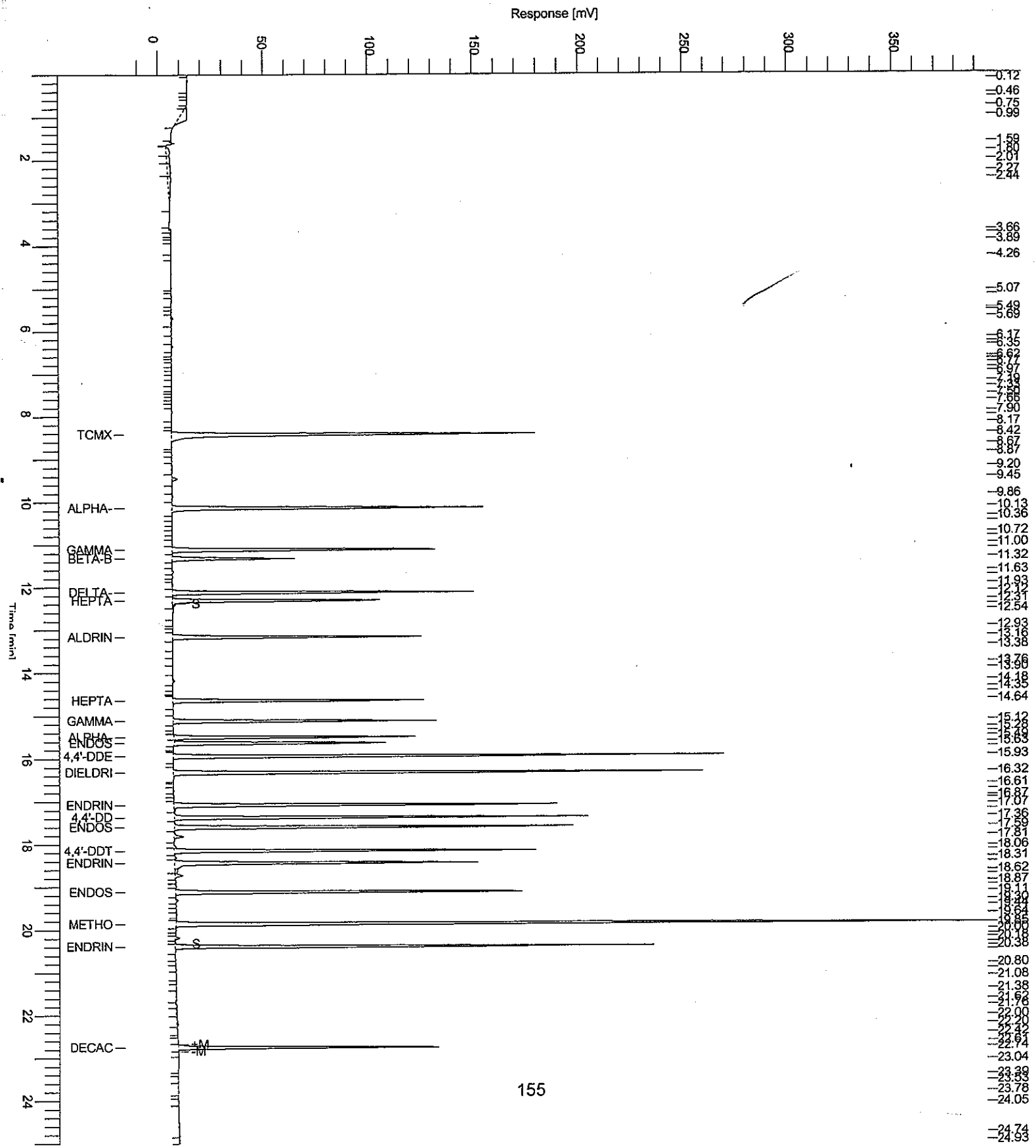
Report stored in ASCII file: G:\gc23\CHB\219b014p.TX0

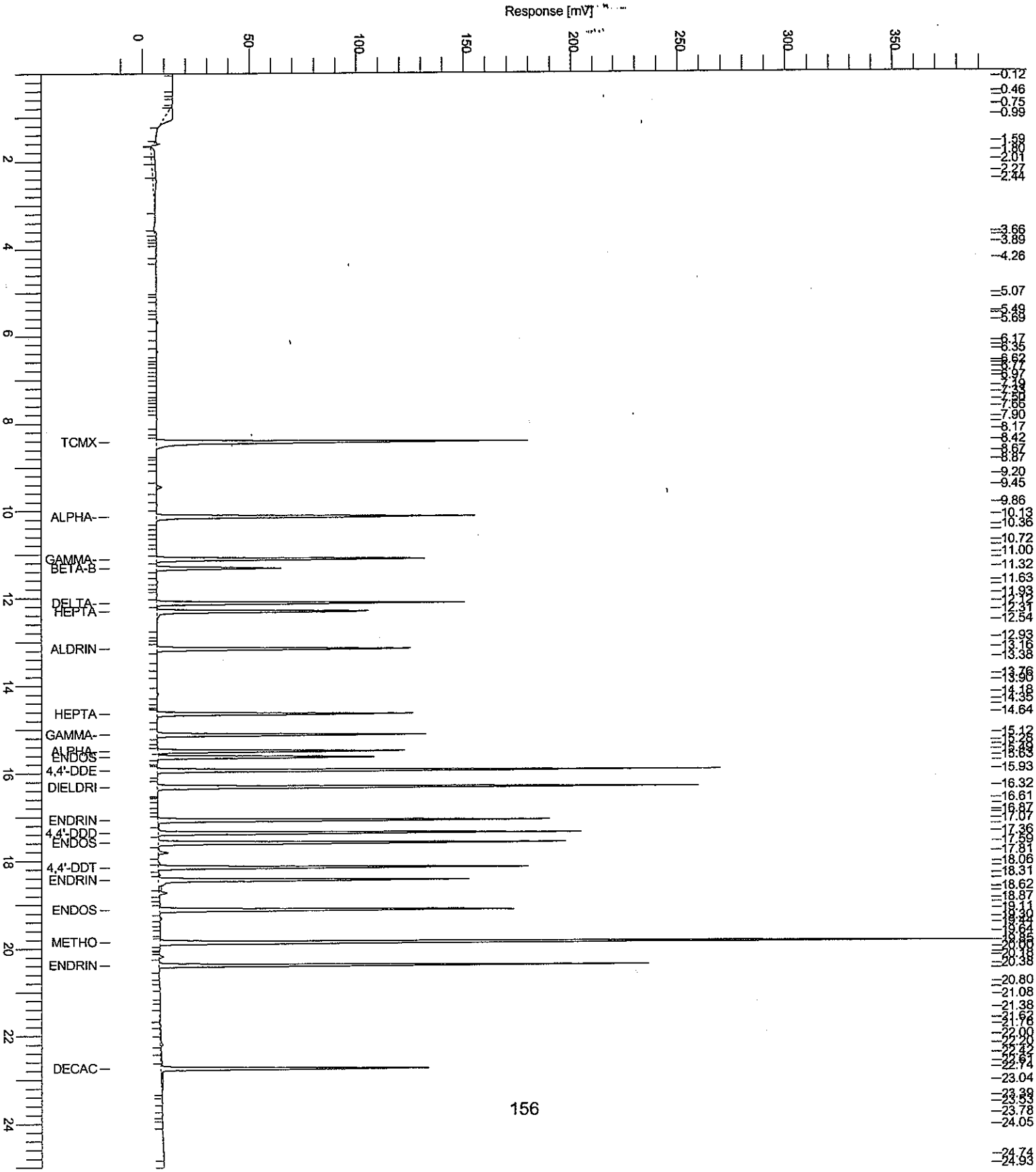
GC23 Rtx-CLPesticides2

ımple Name : ical,04ws1375,pest_5 Sample #: level 5 Page 1 of 1
eName : G:\gc23\CHb\219b014.raw
ate : 8/9/04 9:25:39 AM
ethod : Time of Injection: 8/7/04 1:25:01 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -16.65 mV High Point : 396.08 mV
ot Offset: -16.65 mV Plot Scale: 412.7 mV



GC23 Rtx-CLPesticides2

ımple Name : ical,04ws1375,pest_5 Sample #: level 5 Page 1 of 1
eName : G:\gc23\CHb\219b014
ıte : 8/9/04 9:06:58 AM
ethod : gc23ins Time of Injection: 8/7/04 1:25:01 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -15.62 mV High Point : 396.08 mV
ale Factor: 1.0 Plot Offset: -15.62 mV Plot Scale: 411.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0924;pest_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 8/9/04 9:18:07 AM
Data Acquisition Time : 8/7/04 1:54:22 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a015p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.450	1006536.18	88.4996	1.000	1	88.50
alpha-BHC	10.095	786693.00	45.3418	1.000	1	45.34
gamma-BHC	10.995	699596.37	44.6952	1.000	1	44.70
beta-BHC	11.251	279837.98	41.1995	1.000	1	41.20
delta-BHC	11.745	703435.50	44.2592	1.000	1	44.26
Heptachlor	12.311	627497.94	45.9097	1.000	1	45.91
Aldrin	13.119	622026.14	43.8556	1.000	1	43.86
Heptachlor epoxide	14.728	558335.85	42.8293	1.000	1	42.83
gamma-Chlordane	15.047	563098.00	42.7001	1.000	1	42.70
alpha-Chlordane	15.383	537517.00	42.7994	1.000	1	42.80
4,4'-DDE	15.578	1091953.00	91.4248	1.000	1	91.42
Endosulfan I	15.736	502858.50	41.5374	1.000	1	41.54
Dieldrin	16.348	1141599.56	91.0863	1.000	1	91.09
Endrin	16.933	902734.50	99.9935	1.000	1	99.99
4,4'-DDD	17.085	837194.50	87.0848	1.000	1	87.08
Endosulfan II	17.500	928745.00	87.7653	1.000	1	87.77
4,4'-DDT	17.781	847464.00	99.5610	1.000	1	99.56
Endrin aldehyde	18.551	673338.16	79.5645	1.000	1	79.56
Methoxychlor	18.978	1576155.16	468.3650	1.000	1	468.36
Endosulfan sulfate	19.637	763939.65	85.2203	1.000	1	85.22
Endrin ketone	20.299	915729.38	86.1971	1.000	1	86.20
Decachlorobiphenyl	22.152	556220.04	85.9337	1.000	1	85.93
		17122505.40	1885.8230			1885.82

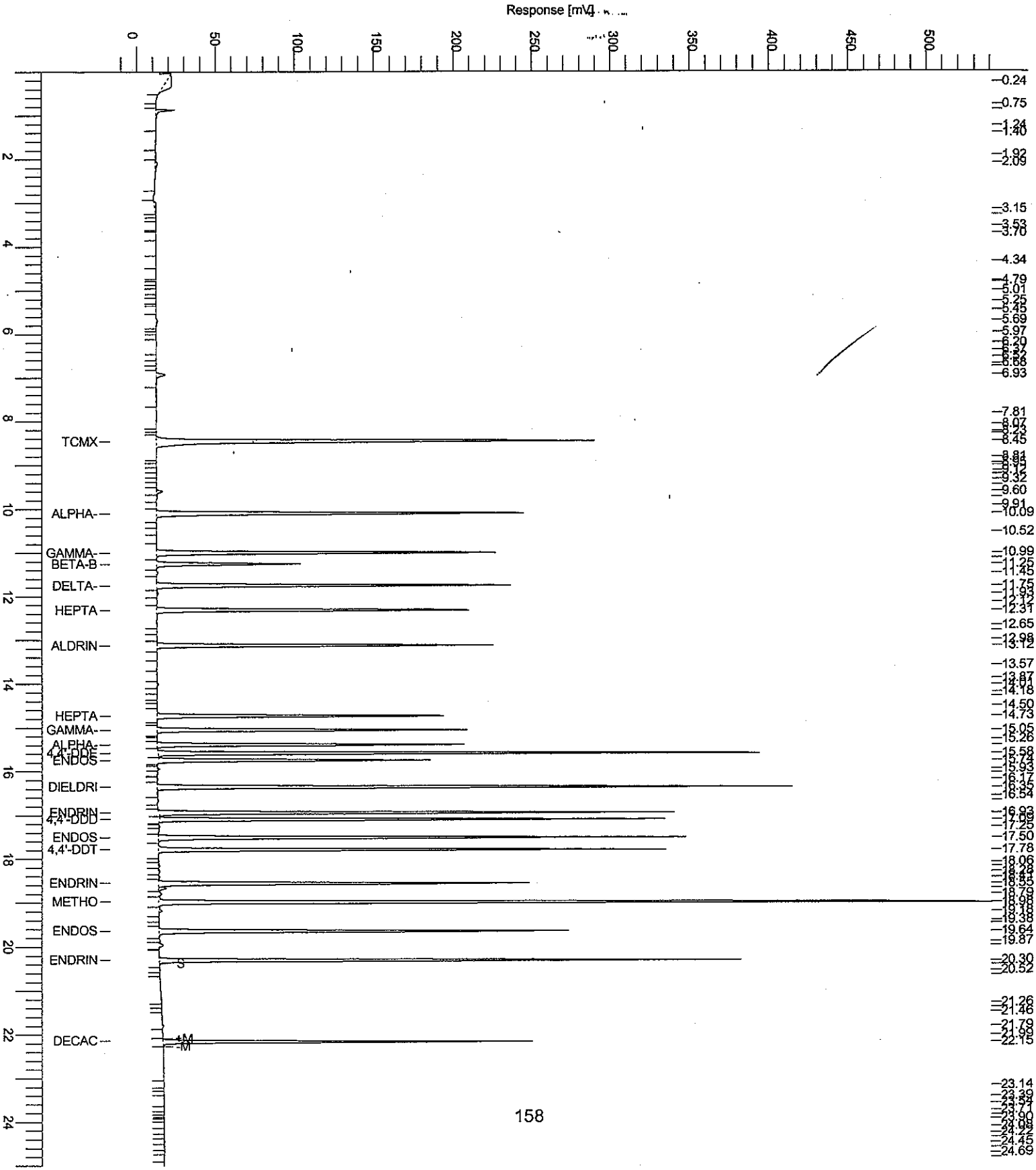
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\219a015p.TX0

RA
8/9/04

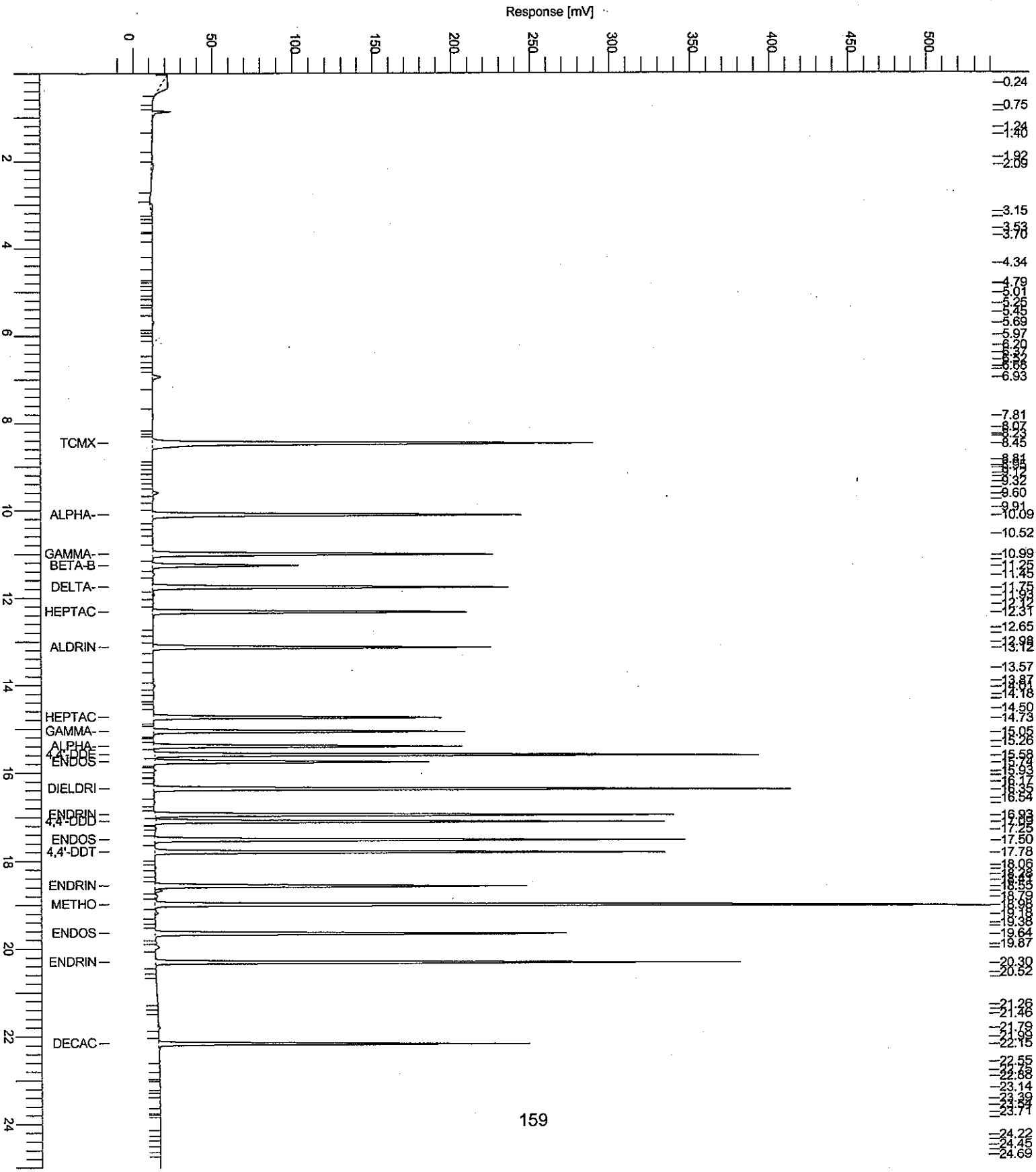
GC23 Rtx-CLPesticides

ample Name : ical,04ws0924,pest_6 Sample #: level 6 Page 1 of 1
leName : G:\gc23\CHA\219a015.raw
ate : 8/9/04 9:18:11 AM
ethod : Time of Injection: 8/7/04 1:54:22 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -17.54 mV High Point : 541.71 mV
ot Offset: -17.54 mV Plot Scale: 559.3 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws0924,pest_6 Sample #: level 6 Page 1 of 1
eName : G:\gc23\CHA\219a015.raw
te : 8/9/04 9:06:05 AM
thod : gc23ins Time of Injection: 8/7/04 1:54:22 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : -16.14 mV High Point : 541.71 mV
ale Factor: 1.0 Plot Offset: -16.14 mV Plot Scale: 557.9 mV



Software Version	: 6.1.2.0.1:D19	Date	: 8/9/04 9:27:20 AM
Sample Name	: ical,04ws0924,pest_6	Data Acquisition Time	: 8/7/04 1:54:22 AM
Instrument Name	: GC23	Channel	: B
Rack/Vial	: 0/0	Operator	: analyst
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 15		

Result File : G:\gc23\CHB\219b015p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.422	1069647.00	85.7464	1.000	1	85.75
alpha-BHC	10.136	833015.00	43.9984	1.000	1	44.00
gamma-BHC	11.115	730611.77	42.8440	1.000	1	42.84
beta-BHC	11.321	299717.00	39.5568	1.000	1	39.56
delta-BHC	12.117	740274.00	43.0770	1.000	1	43.08
Heptachlor	12.311	567006.17	46.4548	1.000	1	46.45
Aldrin	13.162	656767.00	42.6332	1.000	1	42.63
Heptachlor epoxide	14.637	582211.36	42.0823	1.000	1	42.08
gamma-Chlordane	15.117	592375.08	42.4868	1.000	1	42.49
alpha-Chlordane	15.489	560158.00	42.0179	1.000	1	42.02
Endosulfan I	15.630	523035.50	41.7653	1.000	1	41.77
4,4'-DDE	15.934	1125250.00	90.6065	1.000	1	90.61
Dieldrin	16.317	1154528.64	89.7240	1.000	1	89.72
Endrin	17.078	931040.20	96.8840	1.000	1	96.88
4,4'-DDD	17.367	864299.93	89.7072	1.000	1	89.71
Endosulfan II	17.596	958323.57	89.5272	1.000	1	89.53
4,4'-DDT	18.149	797258.53	100.3066	1.000	1	100.31
Endrin aldehyde	18.433	690538.43	84.2111	1.000	1	84.21
Endosulfan sulfate	19.115	828914.47	89.8005	1.000	1	89.80
Methoxychlor	19.862	1518641.31	480.8826	1.000	1	480.88
Endrin ketone	20.384	874907.48	88.2764	1.000	1	88.28
Decachlorobiphenyl	22.746	512701.50	85.5197	1.000	1	85.52
		17411221.95	1898.1087			1898.11

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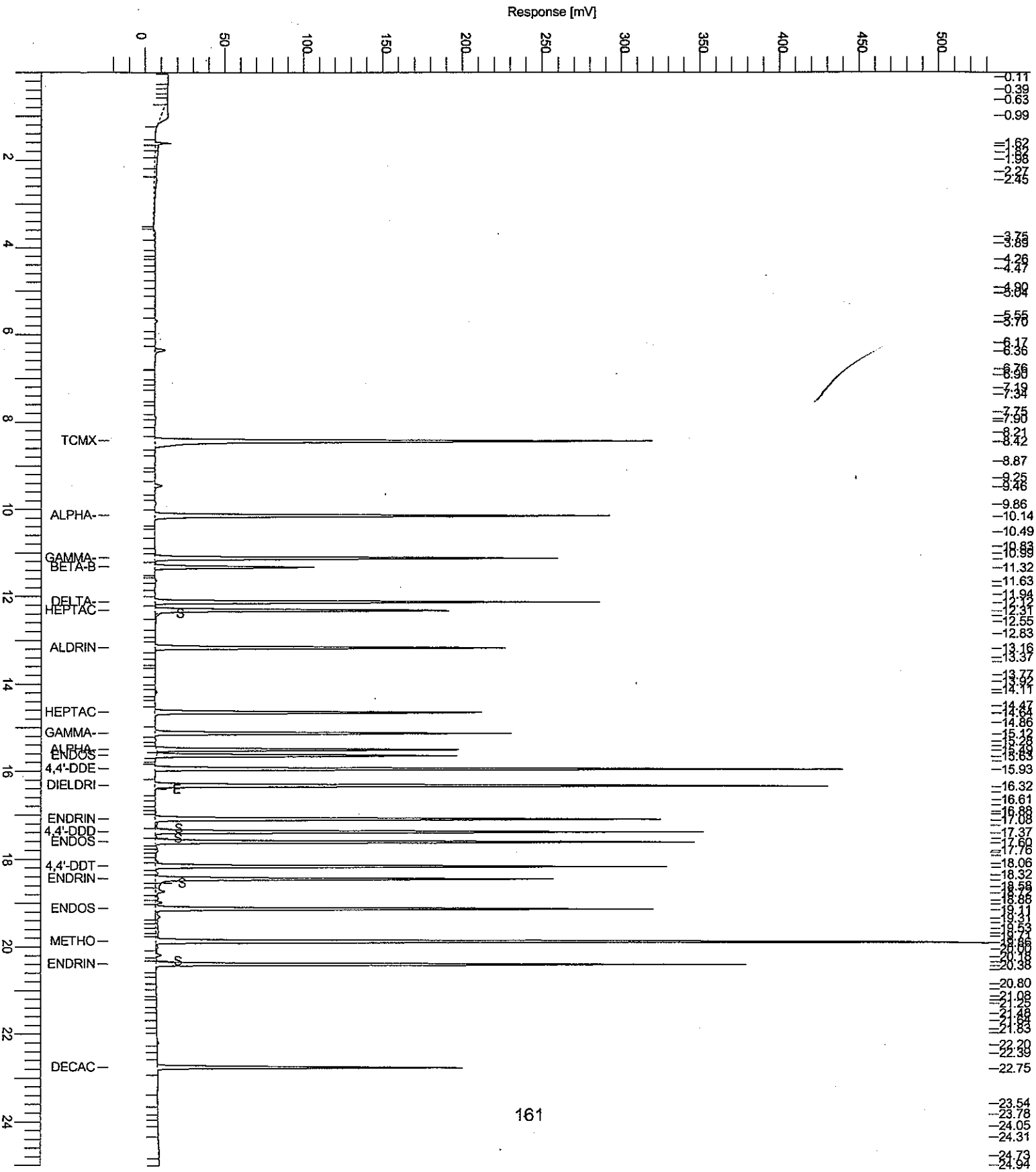
Report stored in ASCII file: G:\gc23\CHB\219b015p.TX0

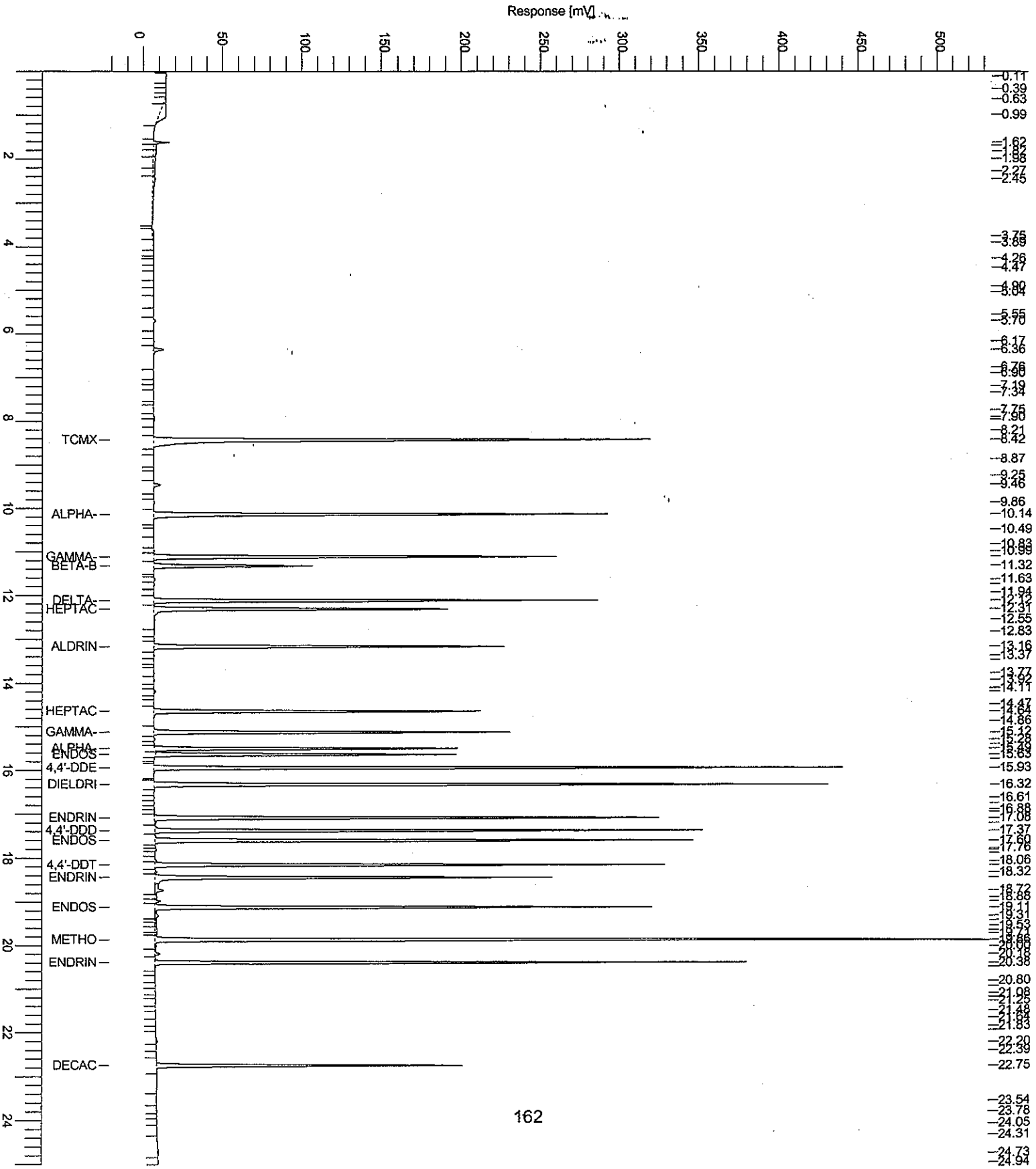
GC23 Rtx-CLPesticides2

ımple Name : ical,04ws0924,pest_6 Sample #: level 6 Page 1 of 1
eName : G:\gc23\CHb\219b015.raw
ıte : 8/9/04 9:27:25 AM
ethod : Time of Injection: 8/7/04 1:54:22 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -22.76 mV High Point : 535.06 mV
ot Offset: -22.76 mV Plot Scale: 557.8 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws0924,pest_6 Sample #: level 6 Page 1 of 1
leName : G:\gc23\CHb\219b015
ate : 8/9/04 9:07:03 AM
ethod : gc23ins Time of Injection: 8/7/04 1:54:22 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -21.37 mV High Point : 535.06 mV
cale Factor: 1.0 Plot Offset: -21.37 mV Plot Scale: 556.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1374,pest_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 8/9/04 9:19:02 AM
Data Acquisition Time : 8/7/04 2:23:29 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a016p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.457	2169495.00	190.7526	1.000	1	190.75
alpha-BHC	10.100	1738410.00	100.1949	1.000	1	100.19
gamma-BHC	11.000	1546900.28	98.8270	1.000	1	98.83
beta-BHC	11.256	597915.29	88.0288	1.000	1	88.03
delta-BHC	11.750	1534341.36	96.5387	1.000	1	96.54
Heptachlor	12.316	1395089.88	102.0690	1.000	1	102.07
Aldrin	13.129	1369451.71	96.5523	1.000	1	96.55
Heptachlor epoxide	14.733	1212044.70	92.9746	1.000	1	92.97
gamma-Chlordane	15.051	1241682.00	94.1576	1.000	1	94.16
alpha-Chlordane	15.388	1173565.00	93.4443	1.000	1	93.44
4,4'-DDE	15.582	2102879.50	176.0656	1.000	1	176.07
Endosulfan I	15.746	1086041.00	89.7098	1.000	1	89.71
Dieldrin	16.352	2162536.55	172.5451	1.000	1	172.55
Endrin	16.937	1814628.50	201.0015	1.000	1	201.00
4,4'-DDD	17.095	1656106.50	172.2679	1.000	1	172.27
Endosulfan II	17.505	1788797.00	169.0393	1.000	1	169.04
4,4'-DDT	17.785	1677924.50	197.1245	1.000	1	197.12
Endrin aldehyde	18.555	1365493.61	161.3526	1.000	1	161.35
Methoxychlor	18.982	2724970.33	809.7430	1.000	1	809.74
Endosulfan sulfate	19.646	1577719.84	176.0005	1.000	1	176.00
Endrin ketone	20.302	1681285.00	158.2583	1.000	1	158.26
Decachlorobiphenyl	22.154	1196213.77	184.8100	1.000	1	184.81
		34813491.30	3721.4579			3721.46

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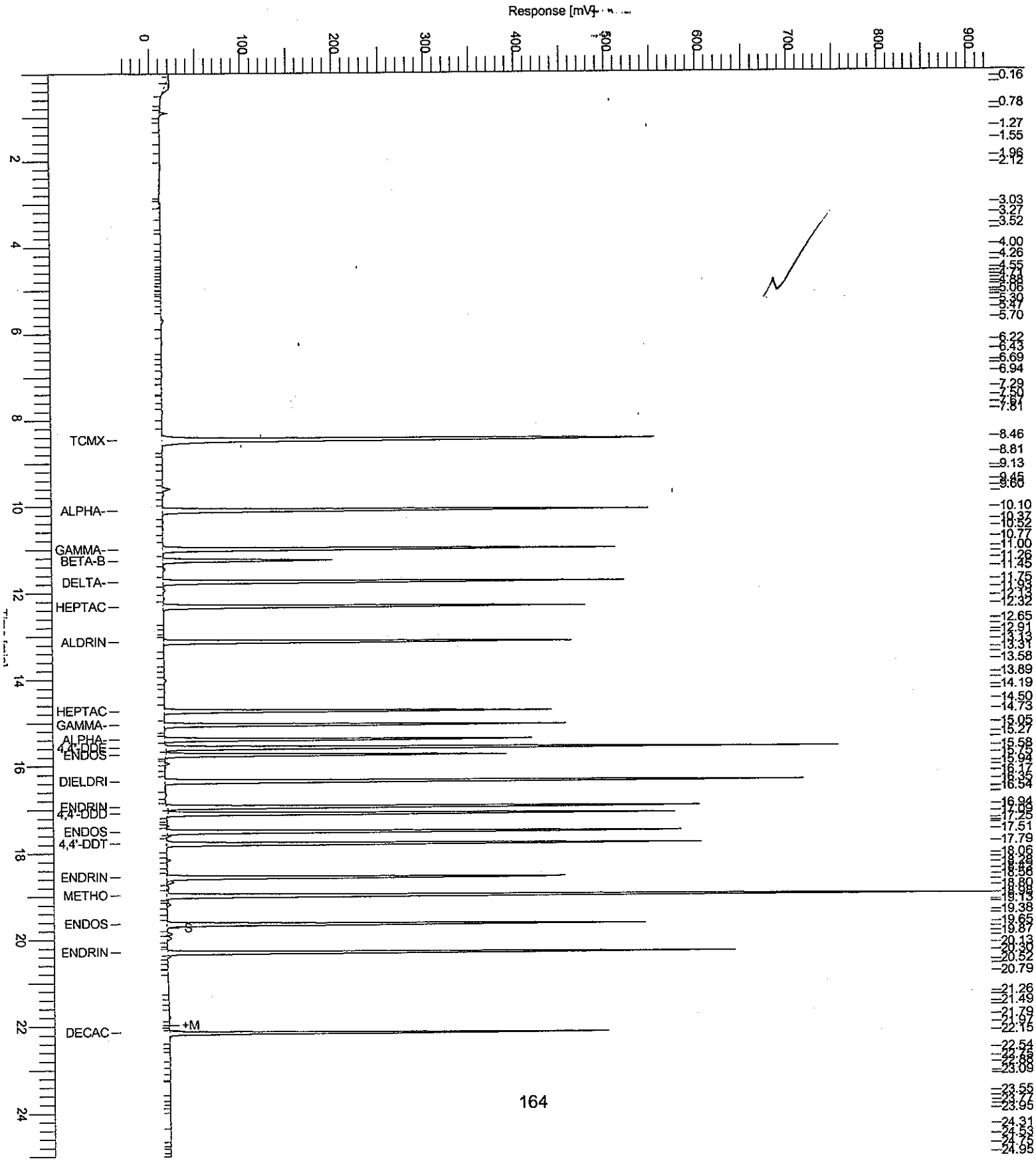
Report stored in ASCII file: G:\gc23\CHA\219a016p.TX0

RA
8/9/04

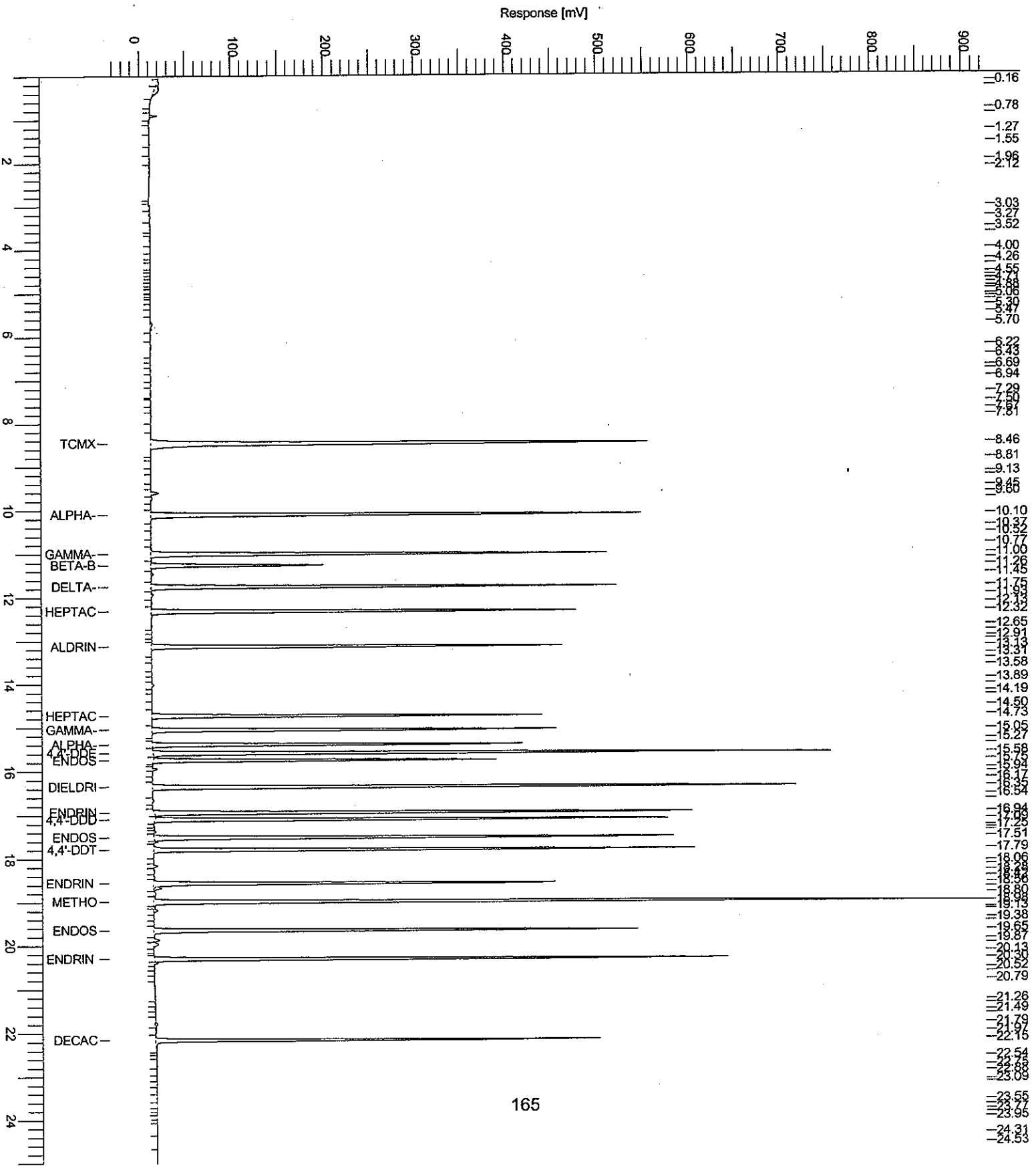
GC23 Rtx-CLPesticides

mple Name : ical,04ws1374,pest_7 Sample #: level 7 Page 1 of 1
eName : G:\gc23\CHA\219a016.raw
te : 8/9/04 9:19:07 AM
thod : Time of Injection: 8/7/04 2:23:29 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : -37.97 mV High Point : 926.28 mV
t Offset: -37.97 mV Plot Scale: 964.2 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws1374,pest_7 Sample #: level 7 Page 1 of 1
eName : G:\gc23\CHA\219a016.raw
ıte : 8/9/04 9:06:10 AM
ethod : gc23ins Time of Injection: 8/7/04 2:23:29 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -35.55 mV High Point : 926.28 mV
ale Factor: 1.0 Plot Offset: -35.55 mV Plot Scale: 961.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1374,pest_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 8/9/04 9:29:19 AM
Data Acquisition Time : 8/7/04 2:23:29 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b016p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.430	2226777.00	178.5057	1.000	1	178.51
alpha-BHC	10.144	1803652.00	95.2658	1.000	1	95.27
gamma-BHC	11.118	1612320.95	94.5486	1.000	1	94.55
beta-BHC	11.329	670471.00	88.4891	1.000	1	88.49
delta-BHC	12.122	1621093.50	94.3324	1.000	1	94.33
Heptachlor	12.316	1329485.79	108.9247	1.000	1	108.92
Aldrin	13.166	1467115.00	95.2359	1.000	1	95.24
Heptachlor epoxide	14.647	1304435.54	94.2848	1.000	1	94.28
gamma-Chlordane	15.121	1369354.93	98.2139	1.000	1	98.21
alpha-Chlordane	15.499	1286998.50	96.5388	1.000	1	96.54
Endosulfan I	15.634	1201022.00	95.9037	1.000	1	95.90
4,4'-DDE	15.940	2307984.50	185.8417	1.000	1	185.84
Dieldrin	16.322	2320271.74	180.3195	1.000	1	180.32
Endrin	17.083	1958783.94	203.8309	1.000	1	203.83
4,4'-DDD	17.372	1856423.39	192.6814	1.000	1	192.68
Endosulfan II	17.600	1987362.38	185.6606	1.000	1	185.66
4,4'-DDT	18.153	1760430.46	221.4876	1.000	1	221.49
Endrin aldehyde	18.437	1524138.32	185.8684	1.000	1	185.87
Endosulfan sulfate	19.119	1834532.85	198.7443	1.000	1	198.74
Methoxychlor	19.866	2838656.91	898.8698	1.000	1	898.87
Endrin ketone	20.387	1775734.90	179.1682	1.000	1	179.17
Decachlorobiphenyl	22.748	1157587.02	193.0880	1.000	1	193.09
		37214632.63	3965.8037			3965.80

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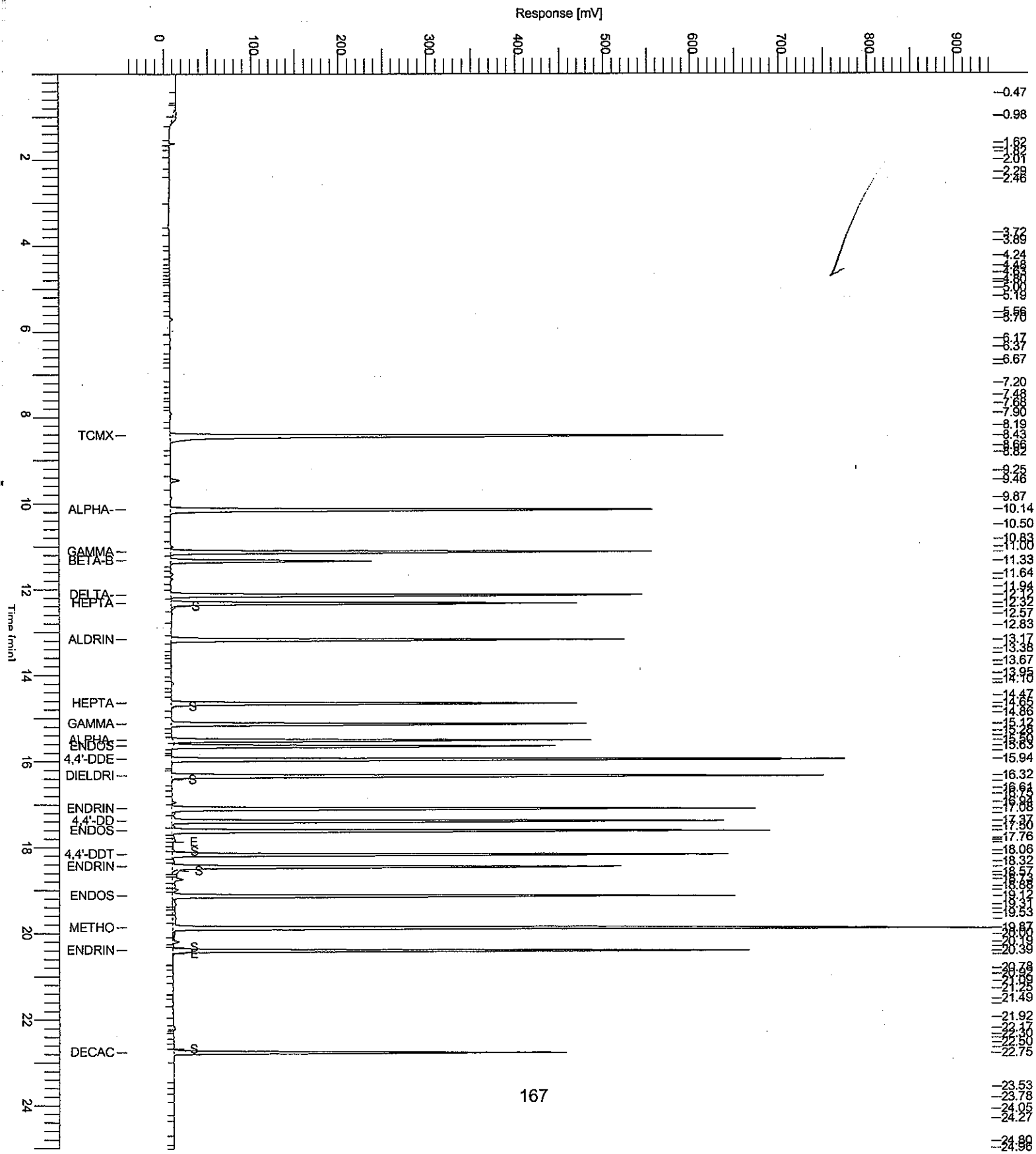
Report stored in ASCII file: G:\gc23\CHB\219b016p.TX0

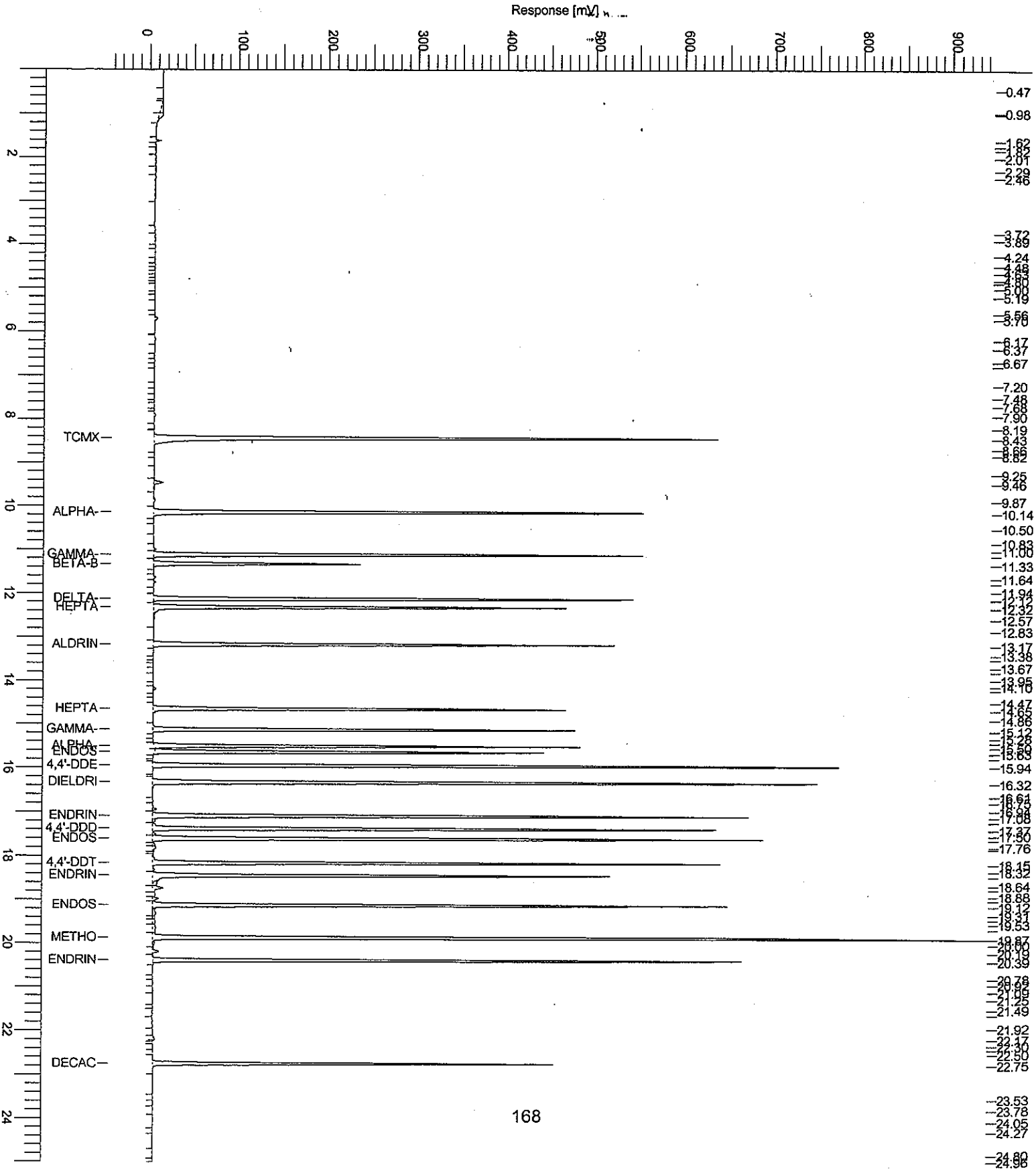
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1374,pest_7 Sample #: level 7 Page 1 of 1
leName : G:\gc23\CHb\219b016.raw
ate : 8/9/04 9:29:24 AM
ethod : Time of Injection: 8/7/04 2:23:29 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -44.42 mV High Point : 946.26 mV
ot Offset: -44.42 mV Plot Scale: 990.7 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1374,pest_7 Sample #: level 7 Page 1 of 1
leName : G:\gc23\CHb\219b016
ate : 8/9/04 9:07:08 AM
ethod : gc23ins Time of Injection: 8/7/04 2:23:29 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -41.94 mV High Point : 946.26 mV
cale Factor: 1.0 Plot Offset: -41.94 mV Plot Scale: 988.2 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804316738020 Run Name: Injected: 07-AUG-2004 04:20
Filename: 219_020 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	816306.84
4,4'-DDE	A	5844.09
4,4'-DDD	A	17955.07

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	392171.1
Endrin aldehyde	A	45683.83
Endrin ketone	A	52376.5

Endrin Breakdown %: **20 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	885684.75
4,4'-DDE	B	4601
4,4'-DDD	B	8210.14

4,4'-DDT Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	477300.86
Endrin aldehyde	B	28800.05
Endrin ketone	B	30016.31

Endrin Breakdown %: 11
Breakdown Limit %: 15

Ru
8/9/04
/mcs 8/9/04

P=PEM failure

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/9/04 9:06:29 AM
Data Acquisition Time : 8/7/04 4:20:29 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a020.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.450	651.14	0.0573	1.000	1	0.06
alpha-BHC	10.097	166923.50	9.6208	1.000	1	9.62
gamma-BHC	10.997	152139.40	9.7197	1.000	1	9.72
beta-BHC	11.252	66904.99	9.8502	1.000	1	9.85
delta-BHC	11.747	3065.50	0.1929	1.000	1	0.19
Heptachlor	12.306	1177.14	0.0861	1.000	1	0.09
Aldrin	13.120	874.00	0.0616	1.000	1	0.06
Heptachlor epoxide	14.720	1284.50	0.0985	1.000	1	0.10
gamma-Chlordane	15.059	1932.53	0.1465	1.000	1	0.15
alpha-Chlordane	15.384	1513.78	0.1205	1.000	1	0.12
4,4'-DDE	15.580	5844.09	0.4893	1.000	1	0.49
Endosulfan I	15.738	1466.36	0.1211	1.000	1	0.12
Dieldrin	16.350	991.50	0.0791	1.000	1	0.08
Endrin	16.933	392171.10	43.4397	1.000	1	43.44
4,4'-DDD	17.087	17955.07	1.8677	1.000	1	1.87
Endosulfan II	17.538	18281.62	1.7276	1.000	1	1.73
4,4'-DDT	17.782	816306.84	95.9006	1.000	1	95.90
Endrin aldehyde	18.551	45683.83	5.3982	1.000	1	5.40
Methoxychlor	18.978	754851.54	224.3091	1.000	1	224.31
Endosulfan sulfate	19.637	2621.64	0.2925	1.000	1	0.29
Endrin ketone	20.297	52376.50	4.9302	1.000	1	4.93
Decachlorobiphenyl	22.165	2435.79	0.3763	1.000	1	0.38
		2507452.37	408.8857			408.89

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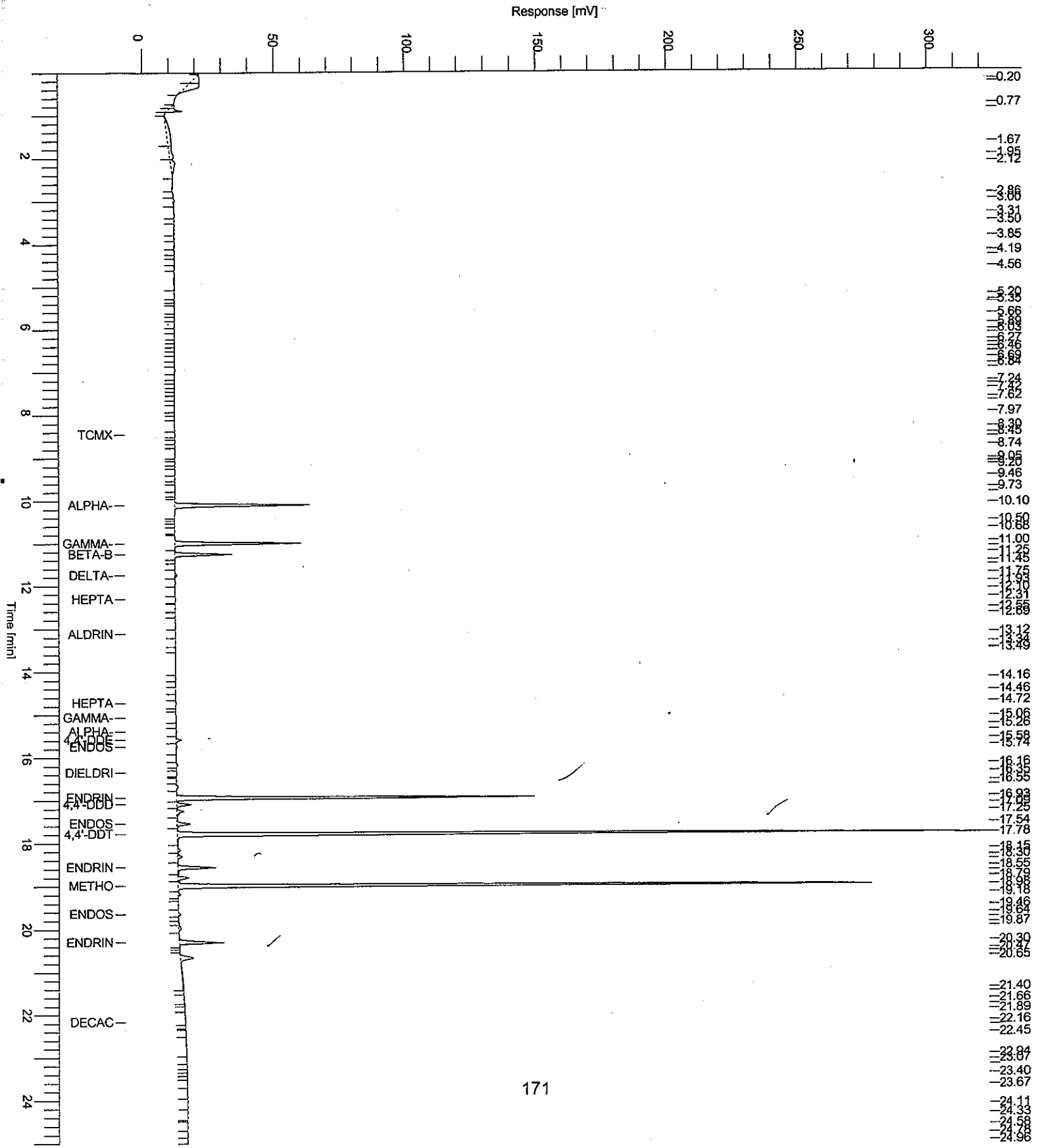
Report stored in ASCII file: G:\gc23\CHA\219a020.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1389 Sample #: 10-250 ug/l Page 1 of 1
ileName : G:\gc23\CHA\219a020.raw
late : 8/9/04 9:06:31 AM
lethod : gc23ins Time of Injection: 8/7/04 4:20:29 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -7.21 mV High Point : 323.02 mV
cale Factor: 1.0 Plot Offset: -7.21 mV Plot Scale: 330.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/9/04 9:07:25 AM
Data Acquisition Time : 8/7/04 4:20:29 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b020.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.419	222.00	0.0178	1.000	1	0.02
alpha-BHC	10.136	174425.00	9.2128	1.000	1	9.21
gamma-BHC	11.115	159065.58	9.3278	1.000	1	9.33
beta-BHC	11.321	72161.00	9.5238	1.000	1	9.52
delta-BHC	12.118	1897.00	0.1104	1.000	1	0.11
Heptachlor	12.318	147.26	0.0121	1.000	1	0.01
Aldrin	13.164	140.50	0.0091	1.000	1	0.01
Heptachlor epoxide	14.639	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	15.131	438.30	0.0314	1.000	1	0.03
alpha-Chlordane	15.494	203.59	0.0153	1.000	1	0.02
Endosulfan I	15.606	1084.41	0.0866	1.000	1	0.09
4,4'-DDE	15.935	4601.00	0.3705	1.000	1	0.37
Dieldrin	16.312	234.66	0.0182	1.000	1	0.02
Endrin	17.078	477300.86	49.6679	1.000	1	49.67
4,4'-DDD	17.370	8210.14	0.8521	1.000	1	0.85
Endosulfan II	17.596	2977.36	0.2781	1.000	1	0.28
4,4'-DDT	18.150	885684.75	111.4319	1.000	1	111.43
Endrin aldehyde	18.434	28800.05	3.5122	1.000	1	3.51
Endosulfan sulfate	19.110	5877.83	0.6368	1.000	1	0.64
Methoxychlor	19.862	894026.59	283.0964	1.000	1	283.10
Endrin ketone	20.383	30016.31	3.0286	1.000	1	3.03
Decachlorobiphenyl	22.750	0.00	0.0000	1.000	1	0.00
		2747514.20	481.2399			481.24

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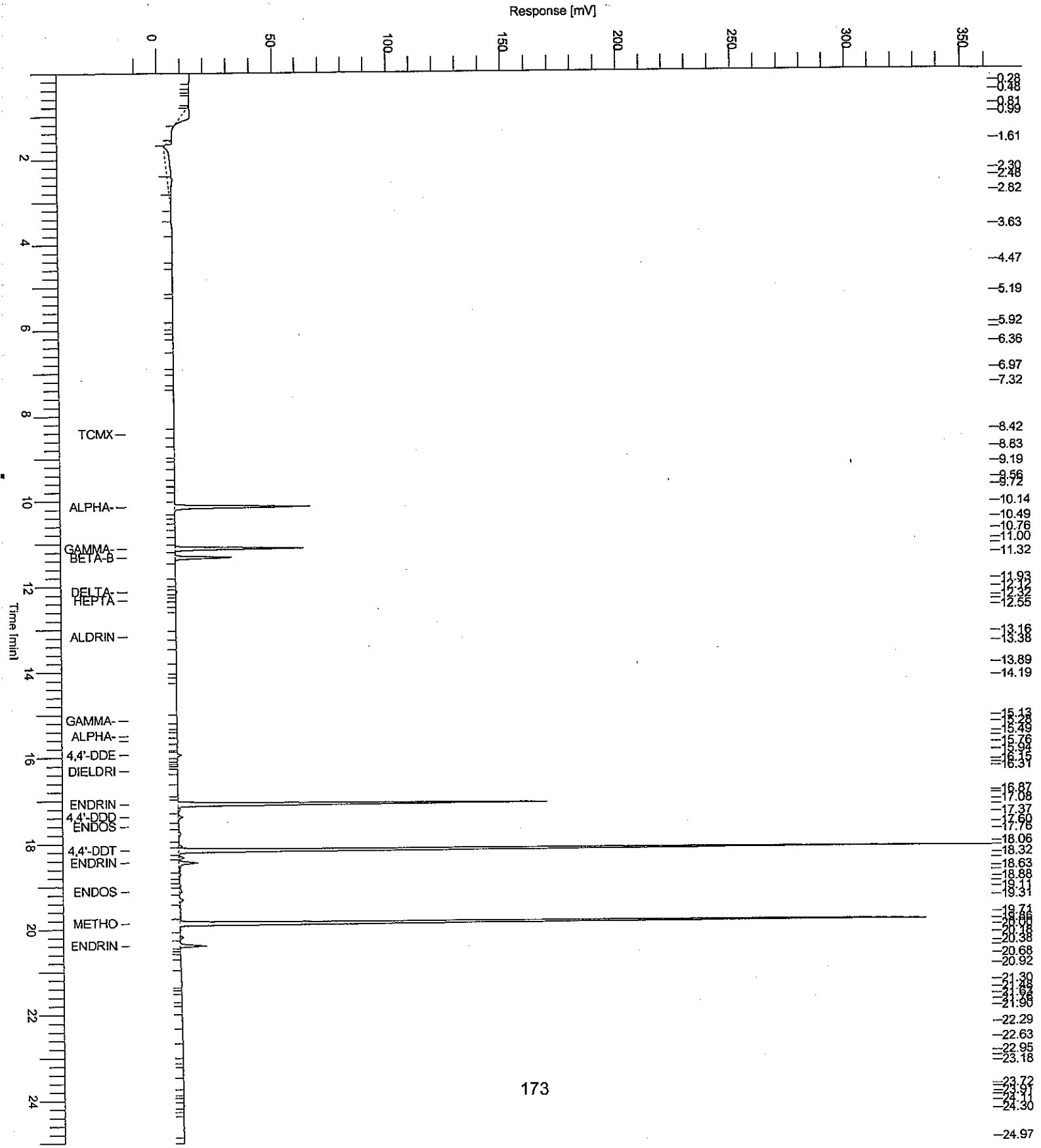
Report stored in ASCII file: G:\gc23\CHB\219b020.TX0

GC23 Rtx-CLPesticides2

ımple Name : pem,04ws1389 Sample #: 10-250 ug/l Page 1 of 1
eName : G:\gc23\CHb\219b020
ıte : 8/9/04 9:07:28 AM
ethod : gc23ins Time of Injection: 8/7/04 4:20:29 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -14.94 mV High Point : 361.76 mV
ale Factor: 1.0 Plot Offset: -14.94 mV Plot Scale: 376.7 mV



INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
alpha-BHC	A	804316738018	07-AUG-2004	25.000	25.300	pg	1	15	
gamma-BHC	A	804316738018	07-AUG-2004	25.000	25.234	pg	1	15	
beta-BHC	A	804316738018	07-AUG-2004	25.000	24.648	pg	-1	15	
delta-BHC	A	804316738018	07-AUG-2004	25.000	24.270	pg	-3	15	
Heptachlor	A	804316738018	07-AUG-2004	25.000	25.546	pg	2	15	
Aldrin	A	804316738018	07-AUG-2004	25.000	25.563	pg	2	15	
Heptachlor epoxide	A	804316738018	07-AUG-2004	25.000	24.657	pg	-1	15	
gamma-Chlordane	A	804316738018	07-AUG-2004	25.000	24.480	pg	-2	15	
alpha-Chlordane	A	804316738018	07-AUG-2004	25.000	24.777	pg	-1	15	
4,4'-DDE	A	804316738018	07-AUG-2004	25.000	25.193	pg	1	15	
Endosulfan I	A	804316738018	07-AUG-2004	25.000	24.807	pg	-1	15	
Dieldrin	A	804316738018	07-AUG-2004	25.000	25.295	pg	1	15	
Endrin	A	804316738018	07-AUG-2004	25.000	23.524	pg	-6	15	
4,4'-DDD	A	804316738018	07-AUG-2004	25.000	25.223	pg	1	15	
Endosulfan II	A	804316738018	07-AUG-2004	25.000	25.017	pg	0	15	
4,4'-DDT	A	804316738018	07-AUG-2004	25.000	24.618	pg	-2	15	
Endrin aldehyde	A	804316738018	07-AUG-2004	25.000	23.615	pg	-6	15	
Methoxychlor	A	804316738018	07-AUG-2004	25.000	28.141	pg	13	15	
Endosulfan sulfate	A	804316738018	07-AUG-2004	25.000	23.983	pg	-4	15	
Endrin ketone	A	804316738018	07-AUG-2004	25.000	25.105	pg	0	15	
TCMX	A	804316738018	07-AUG-2004	26.000	27.467	pg	6	15	
Decachlorobiphenyl	A	804316738018	07-AUG-2004	26.000	22.920	pg	-12	15	
alpha-BHC	B	804316738018	07-AUG-2004	25.000	25.415	pg	2	15	
gamma-BHC	B	804316738018	07-AUG-2004	25.000	25.305	pg	1	15	
beta-BHC	B	804316738018	07-AUG-2004	25.000	24.825	pg	-1	15	
delta-BHC	B	804316738018	07-AUG-2004	25.000	24.671	pg	-1	15	
Heptachlor	B	804316738018	07-AUG-2004	25.000	25.633	pg	3	15	
Aldrin	B	804316738018	07-AUG-2004	25.000	25.843	pg	3	15	
Heptachlor epoxide	B	804316738018	07-AUG-2004	25.000	25.023	pg	0	15	
gamma-Chlordane	B	804316738018	07-AUG-2004	25.000	24.895	pg	0	15	
alpha-Chlordane	B	804316738018	07-AUG-2004	25.000	25.251	pg	1	15	
4,4'-DDE	B	804316738018	07-AUG-2004	25.000	26.261	pg	5	15	
Endosulfan I	B	804316738018	07-AUG-2004	25.000	25.679	pg	3	15	
Dieldrin	B	804316738018	07-AUG-2004	25.000	26.129	pg	5	15	
Endrin	B	804316738018	07-AUG-2004	25.000	24.700	pg	-1	15	
4,4'-DDD	B	804316738018	07-AUG-2004	25.000	26.191	pg	5	15	
Endosulfan II	B	804316738018	07-AUG-2004	25.000	26.024	pg	4	15	
4,4'-DDT	B	804316738018	07-AUG-2004	25.000	26.810	pg	7	15	
Endrin aldehyde	B	804316738018	07-AUG-2004	25.000	24.078	pg	-4	15	
Methoxychlor	B	804316738018	07-AUG-2004	25.000	30.335	pg	21	15	v ***
Endosulfan sulfate	B	804316738018	07-AUG-2004	25.000	24.972	pg	0	15	
Endrin ketone	B	804316738018	07-AUG-2004	25.000	26.254	pg	5	15	
TCMX	B	804316738018	07-AUG-2004	26.000	27.529	pg	6	15	
Decachlorobiphenyl	B	804316738018	07-AUG-2004	26.000	24.597	pg	-5	15	

Method	Ch	Count	Avg	%D Limit	Flags
EPA 8081A	A	22	3	15	
EPA 8081A	B	22	4	15	

DR 8/9/04

v=ICV out

TFAcers 8/9/04

Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1240,accpst_icv
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 8/9/04 9:48:26 AM
Data Acquisition Time : 8/7/04 3:21:59 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a018p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.456	300378.00	27.4667	1.000	1	27.47
alpha-BHC	10.099	423085.00	25.2997	1.000	1	25.30
gamma-BHC	10.999	380000.73	25.2338	1.000	1	25.23
beta-BHC	11.255	159704.43	24.6481	1.000	1	24.65
delta-BHC	11.749	384693.87	24.2697	1.000	1	24.27
Heptachlor	12.315	344269.96	25.5457	1.000	1	25.55
Aldrin	13.123	347827.00	25.5634	1.000	1	25.56
Heptachlor epoxide	14.731	305099.00	24.6574	1.000	1	24.66
gamma-Chlordane	15.049	301399.00	24.4795	1.000	1	24.48
alpha-Chlordane	15.386	292633.50	24.7773	1.000	1	24.78
4,4'-DDE	15.581	278228.00	25.1930	1.000	1	25.19
Endosulfan I	15.744	278825.00	24.8065	1.000	1	24.81
Dieldrin	16.350	297423.47	25.2947	1.000	1	25.29
Endrin	16.935	221179.67	23.5236	1.000	1	23.52
4,4'-DDD	17.088	215037.16	25.2235	1.000	1	25.22
Endosulfan II	17.503	245426.00	25.0173	1.000	1	25.02
4,4'-DDT	17.783	209690.00	24.6180	1.000	1	24.62
Endrin aldehyde	18.553	188903.12	23.6151	1.000	1	23.62
Methoxychlor	18.980	92368.21	28.1408	1.000	1	28.14
Endosulfan sulfate	19.644	205274.42	23.9825	1.000	1	23.98
Endrin ketone	20.301	242887.07	25.1048	1.000	1	25.10
Decachlorobiphenyl	22.155	131893.02	22.9202	1.000	1	22.92
		5846225.64	549.3814			549.38

159704/6479.4 =
24.647

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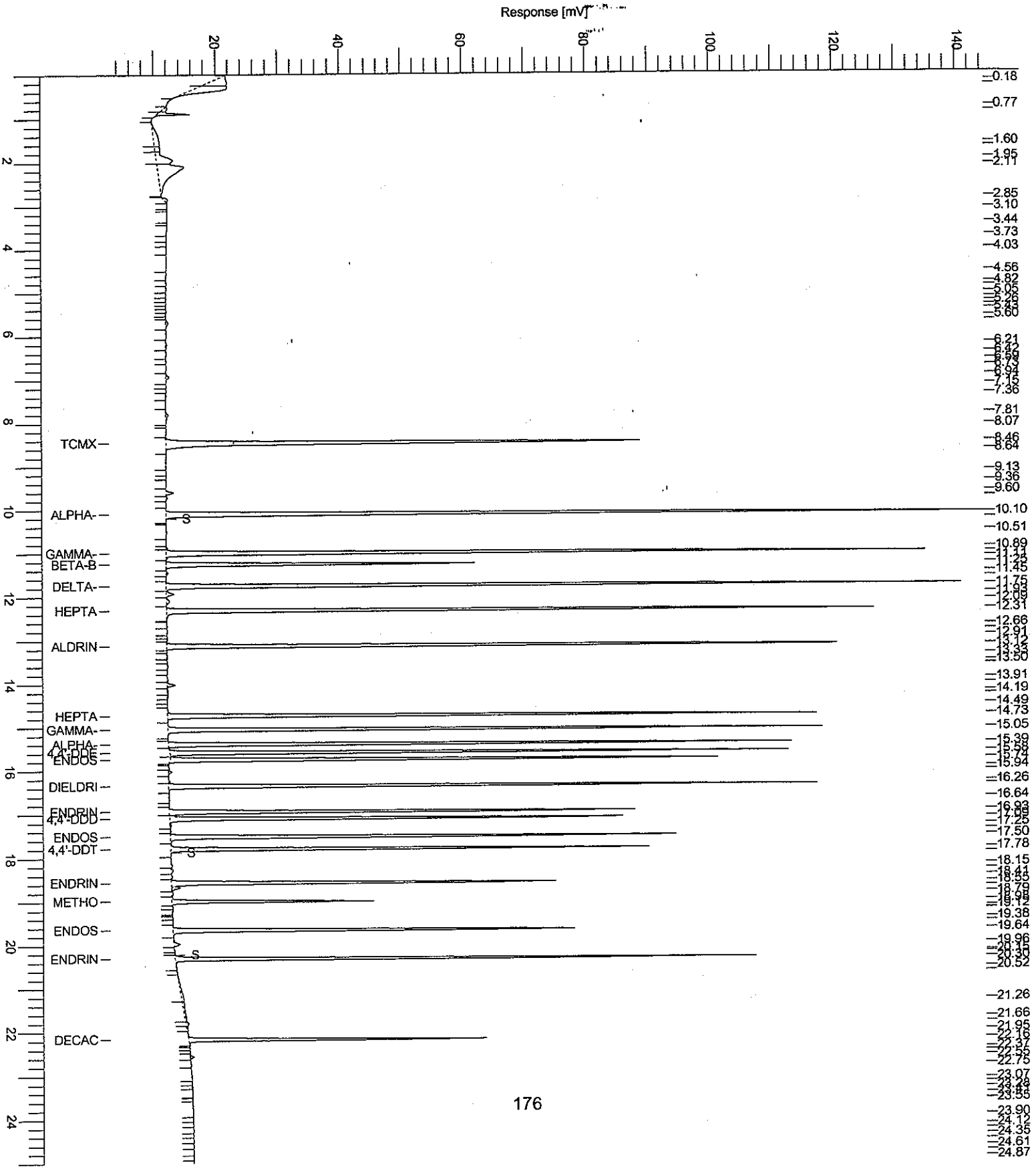
Report stored in ASCII file: G:\gc23\CHA\219a018p.TX0

DM
8/9/04

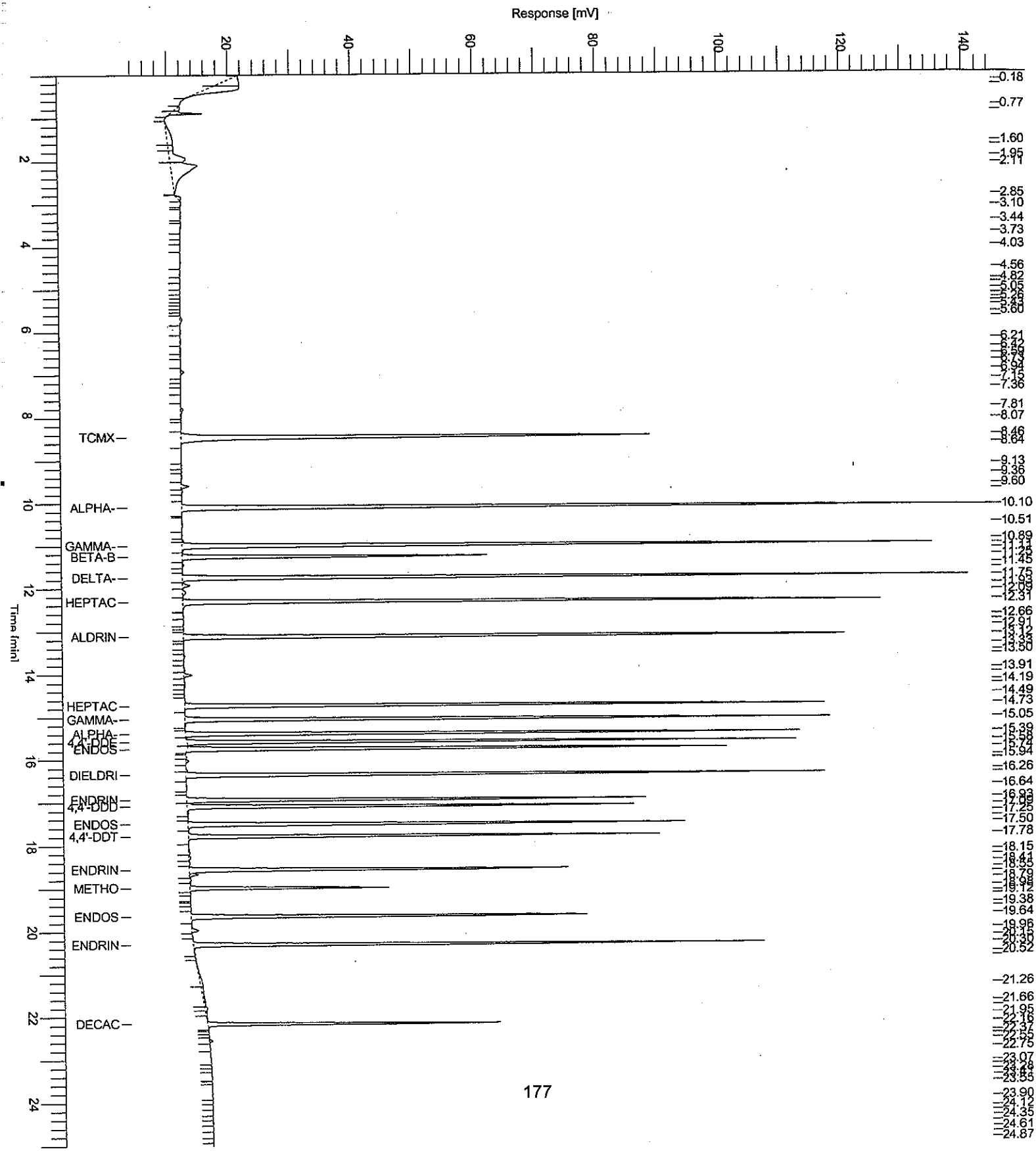
GC23 Rtx-CLPesticides

ımple Name : icv,04ws1240,accpst_icv Sample #: 25 ug/l Page 1 of 1
eName : G:\gc23\CHa\219a018.raw
ıte : 8/9/04 9:48:31 AM
ethod : Time of Injection: 8/7/04 3:21:59 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.61 mV High Point : 144.73 mV
ot Offset: 2.61 mV Plot Scale: 142.1 mV



GC23 Rtx-CLPesticides

mple Name : icv,04ws1240,accpst_icv Sample #: 25 ug/l Page 1 of 1
eName : G:\gc23\CHA\219a018.raw
te : 8/9/04 9:06:21 AM
thod : gc23ins Time of Injection: 8/7/04 3:21:59 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : 2.97 mV High Point : 144.73 mV
ale Factor: 1.0 Plot Offset: 2.97 mV Plot Scale: 141.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1240,accpst_icv
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 8/9/04 9:49:38 AM
Data Acquisition Time : 8/7/04 3:21:59 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b018p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.423	328627.00	27.5287	1.000	1	27.53
alpha-BHC	10.138	463679.00	25.4151	1.000	1	25.42
gamma-BHC	11.116	417746.12	25.3049	1.000	1	25.30
beta-BHC	11.323	183097.50	24.8251	1.000	1	24.83
delta-BHC	12.119	435613.00	24.6705	1.000	1	24.67
Heptachlor	12.314	330636.65	25.6335	1.000	1	25.63
Aldrin	13.164	395710.00	25.8432	1.000	1	25.84
Heptachlor epoxide	14.645	351526.00	25.0229	1.000	1	25.02
gamma-Chlordane	15.119	355532.45	24.8946	1.000	1	24.89
alpha-Chlordane	15.497	345837.00	25.2511	1.000	1	25.25
Endosulfan I	15.632	330442.00	25.6790	1.000	1	25.68
4,4'-DDE	15.936	346469.00	26.2611	1.000	1	26.26
Dieldrin	16.319	356542.05	26.1286	1.000	1	26.13
Endrin	17.081	273700.76	24.7000	1.000	1	24.70
4,4'-DDD	17.369	270312.37	26.1910	1.000	1	26.19
Endosulfan II	17.598	304288.88	26.0239	1.000	1	26.02
4,4'-DDT	18.151	253394.87	26.8103	1.000	1	26.81
Endrin aldehyde	18.435	230523.09	24.0775	1.000	1	24.08
Endosulfan sulfate	19.117	267467.67	24.9725	1.000	1	24.97
Methoxychlor	19.864	118757.63	30.3346	1.000	1	30.33
Endrin ketone	20.386	294644.57	26.2536	1.000	1	26.25
Decachlorobiphenyl	22.750	170612.72	24.5965	1.000	1	24.60
		6825160.34	566.4182			566.42

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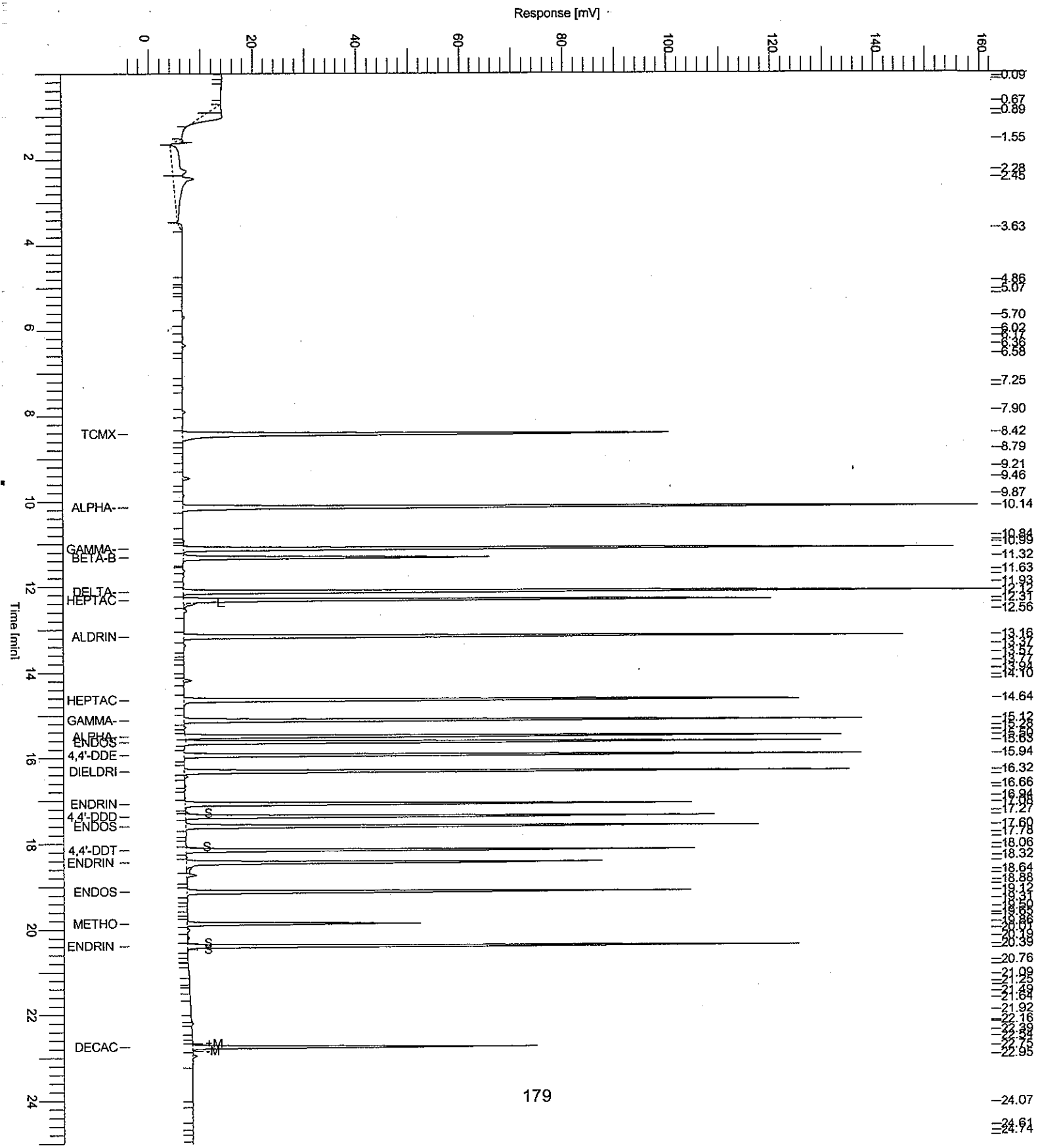
Report stored in ASCII file: G:\gc23\CHB\219b018p.TX0

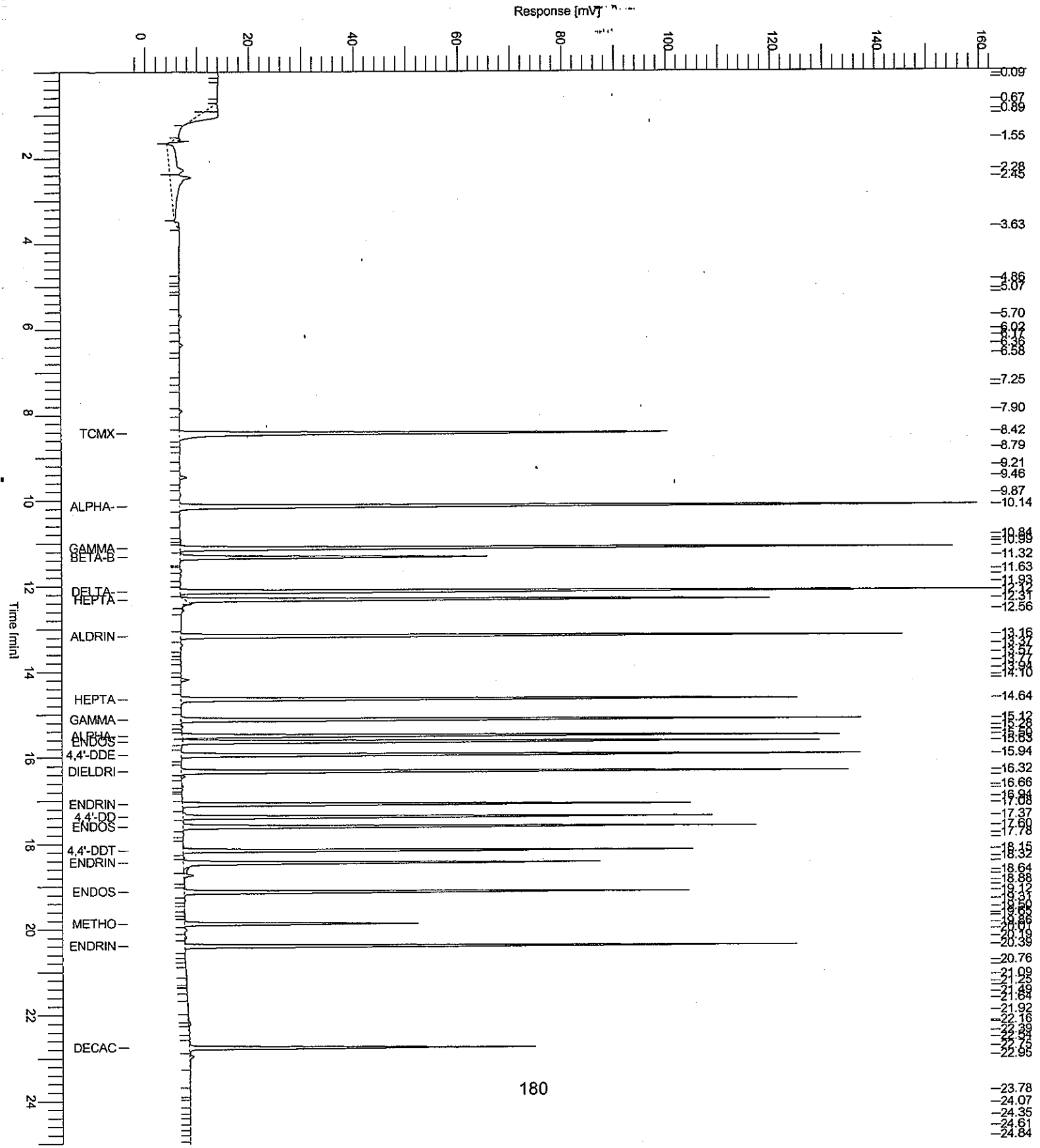
GC23 Rtx-CLPesticides2

ample Name : icv,04ws1240,accpst_icv Sample #: 25 ug/l Page 1 of 1
leName : G:\gc23\CHb\219b018.raw
ate : 8/9/04 9:49:43 AM
lethod : Time of Injection: 8/7/04 3:21:59 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -4.22 mV High Point : 162.50 mV
lot Offset: -4.22 mV Plot Scale: 166.7 mV



GC23 Rtx-CLPesticides2

ample Name : icv,04ws1240,accpst_icv Sample #: 25 ug/l Page 1 of 1
leName : G:\gc23\CHb\219b018
ate : 8/9/04 9:07:18 AM
ethod : gc23ins Time of Injection: 8/7/04 3:21:59 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -3.81 mV High Point : 162.50 mV
cale Factor: 1.0 Plot Offset: -3.81 mV Plot Scale: 166.3 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804316738033 Run Name: Injected: 07-AUG-2004 10:40
Filename: 219_033 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	754234.17
4,4'-DDE	A	3585.23
4,4'-DDD	A	20089.88

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	410482.2
Endrin aldehyde	A	20320.5
Endrin ketone	A	30007.61

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	848800.4
4,4'-DDE	B	3798
4,4'-DDD	B	15137.87

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	510522.87
Endrin aldehyde	B	11825.67
Endrin ketone	B	14693.86

Endrin Breakdown %: 5
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 33

Date : 8/9/04 10:30:38 AM
Data Acquisition Time : 8/7/04 10:40:14 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b033p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.423	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.135	182825.92	10.0210	1.000	1	10.02
gamma-BHC	11.114	169099.30	10.2432	1.000	1	10.24
beta-BHC	11.321	76341.00	10.3506	1.000	1	10.35
delta-BHC	12.132	1068.00	0.0605	1.000	1	0.06
Heptachlor	12.311	0.00	0.0000	1.000	1	0.00
Aldrin	13.162	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.689	338.63	0.0241	1.000	1	0.02
gamma-Chlordane	15.118	0.00	0.0000	1.000	1	0.00
alpha-Chlordane	15.494	0.00	0.0000	1.000	1	0.00
Endosulfan I	15.606	990.00	0.0769	1.000	1	0.08
4,4'-DDE	15.936	3798.00	0.2879	1.000	1	0.29
Dieldrin	16.339	36.00	0.0026	1.000	1	0.00
Endrin	17.080	510522.87	46.0719	1.000	1	46.07
4,4'-DDD	17.370	15137.87	1.4667	1.000	1	1.47
Endosulfan II	17.594	1719.00	0.1470	1.000	1	0.15
4,4'-DDT	18.151	848800.40	89.8067	1.000	1	89.81
Endrin aldehyde	18.436	11825.67	1.2352	1.000	1	1.24
Endosulfan sulfate	19.116	0.00	0.0000	1.000	1	0.00
Methoxychlor	19.864	891191.35	227.6394	1.000	1	227.64
Endrin ketone	20.386	14693.86	1.3093	1.000	1	1.31
Decachlorobiphenyl	22.793	1530.30	0.2206	1.000	1	0.22
		2729918.17	398.9636			398.96

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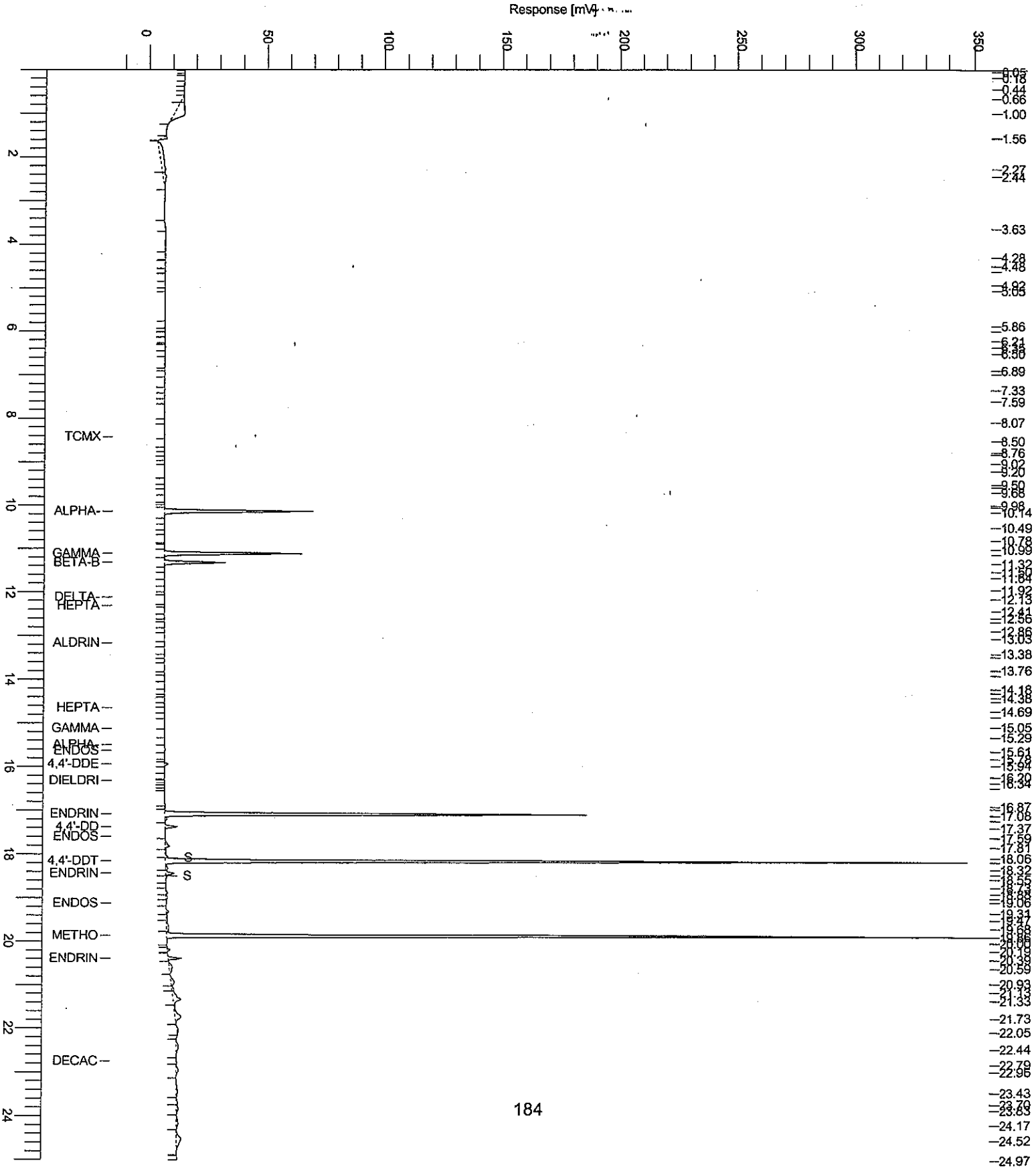
Report stored in ASCII file: G:\gc23\CHB\219b033p.TX0

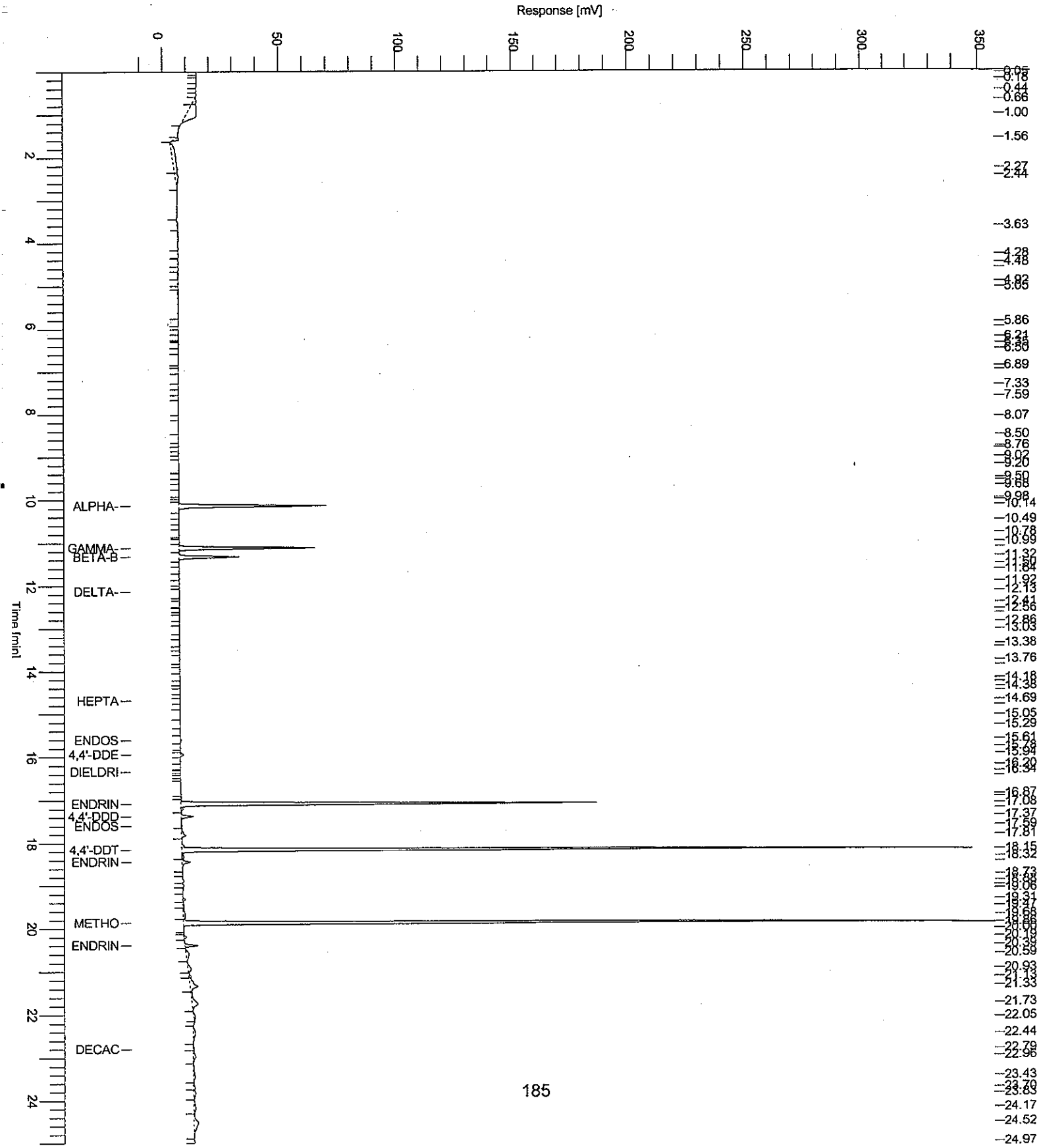
GC23 Rtx-CLPesticides2

ample Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
leName : G:\gc23\CHb\219b033.raw
ate : 8/9/04 10:30:43 AM
ethod : Time of Injection: 8/7/04 10:40:14 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -15.23 mV High Point : 357.44 mV
lot Offset: -15.23 mV Plot Scale: 372.7 mV



GC23 Rtx-CLPesticides2

ample Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
leName : G:\gc23\CHb\219b033
ate : 8/9/04 10:18:16 AM
ethod : gc23ins Time of Injection: 8/7/04 10:40:14 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -14.30 mV High Point : 357.44 mV
cale Factor: 1.0 Plot Offset: -14.30 mV Plot Scale: 371.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 33

Date : 8/9/04 10:19:01 AM
Data Acquisition Time : 8/7/04 10:40:14 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a033.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.452	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.096	158276.31	9.4646	1.000	1	9.46
gamma-BHC	10.996	145202.00	9.6421	1.000	1	9.64
beta-BHC	11.252	63613.00	9.8178	1.000	1	9.82
delta-BHC	11.749	611.00	0.0385	1.000	1	0.04
Heptachlor	12.289	205.50	0.0152	1.000	1	0.02
Aldrin	13.150	91.90	0.0068	1.000	1	0.01
Heptachlor epoxide	14.716	471.07	0.0381	1.000	1	0.04
gamma-Chlordane	15.003	657.56	0.0534	1.000	1	0.05
alpha-Chlordane	15.393	296.59	0.0251	1.000	1	0.03
4,4'-DDE	15.581	3585.23	0.3246	1.000	1	0.32
Endosulfan I	15.739	0.00	0.0000	1.000	1	0.00
Dieldrin	16.349	0.00	0.0000	1.000	1	0.00
Endrin	16.935	410482.20	43.6568	1.000	1	43.66
4,4'-DDD	17.094	20089.88	2.3565	1.000	1	2.36
Endosulfan II	17.547	4368.22	0.4453	1.000	1	0.45
4,4'-DDT	17.784	754234.17	88.5484	1.000	1	88.55
Endrin aldehyde	18.553	20320.50	2.5403	1.000	1	2.54
Methoxychlor	18.981	793296.73	241.6846	1.000	1	241.68
Endosulfan sulfate	19.643	2254.63	0.2634	1.000	1	0.26
Endrin ketone	20.296	30007.61	3.1016	1.000	1	3.10
Decachlorobiphenyl	22.153	0.00	0.0000	1.000	1	0.00
		2408064.10	412.0231			412.02

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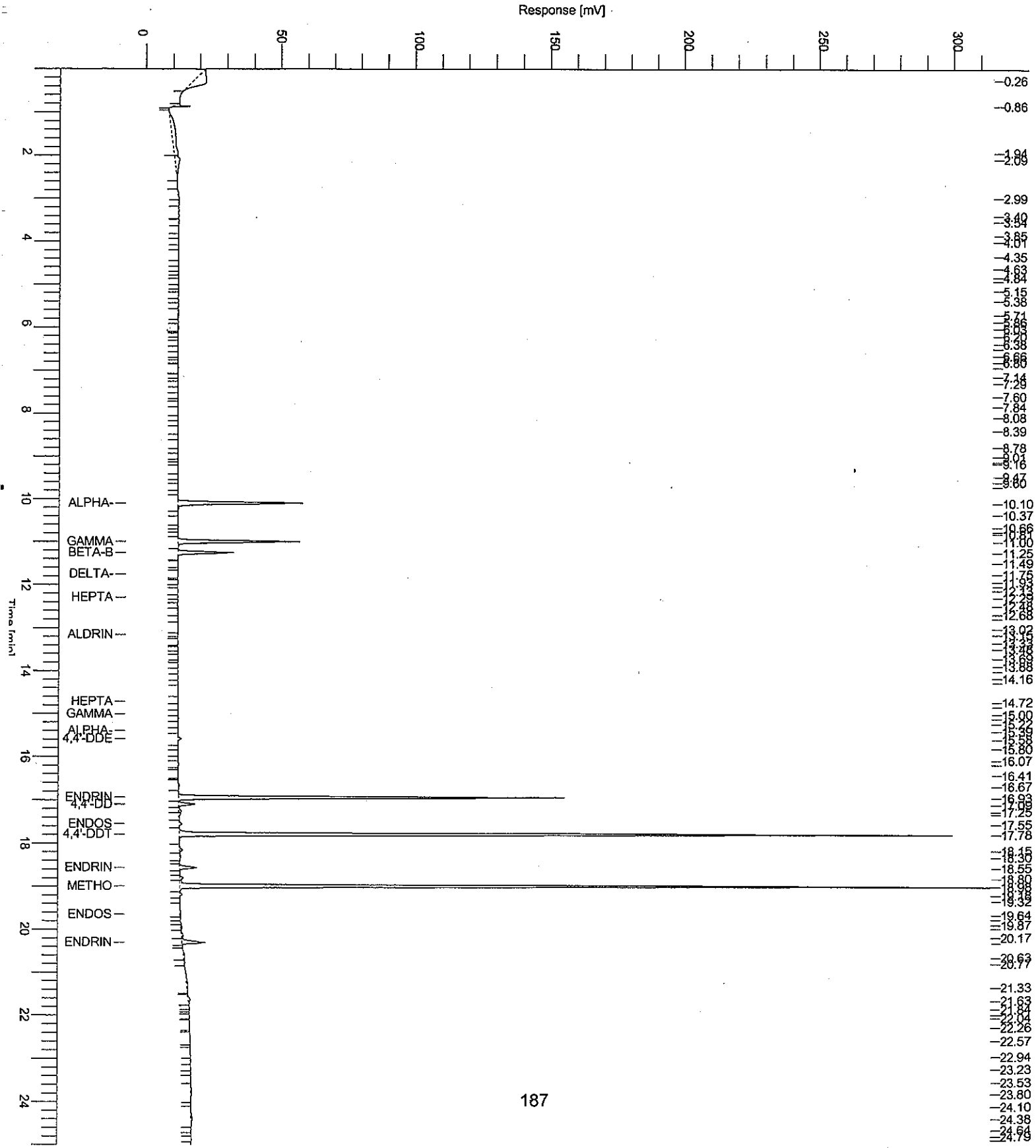
Report stored in ASCII file: G:\gc23\CHA\219a033.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
ileName : G:\gc23\CHa\219a033.raw
ate : 8/9/04 10:19:04 AM
lethod : gc23ins Time of Injection: 8/7/04 10:40:14 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -7.14 mV High Point : 314.82 mV
cale Factor: 1.0 Plot Offset: -7.14 mV Plot Scale: 322.0 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804316738048 Run Name: Injected: 07-AUG-2004 17:58
Filename: 219_048 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	743591.4
4,4'-DDE	A	3636.04
4,4'-DDD	A	22988

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	379937
Endrin aldehyde	A	33353.41
Endrin ketone	A	38227.17

Endrin Breakdown %: **16 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	833576.27
4,4'-DDE	B	3794.35
4,4'-DDD	B	9729.34

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	477680.62
Endrin aldehyde	B	14226.05
Endrin ketone	B	17716.01

Endrin Breakdown %: 6
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 48

Date : 8/9/04 10:31:20 AM
Data Acquisition Time : 8/7/04 5:58:41 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b048p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

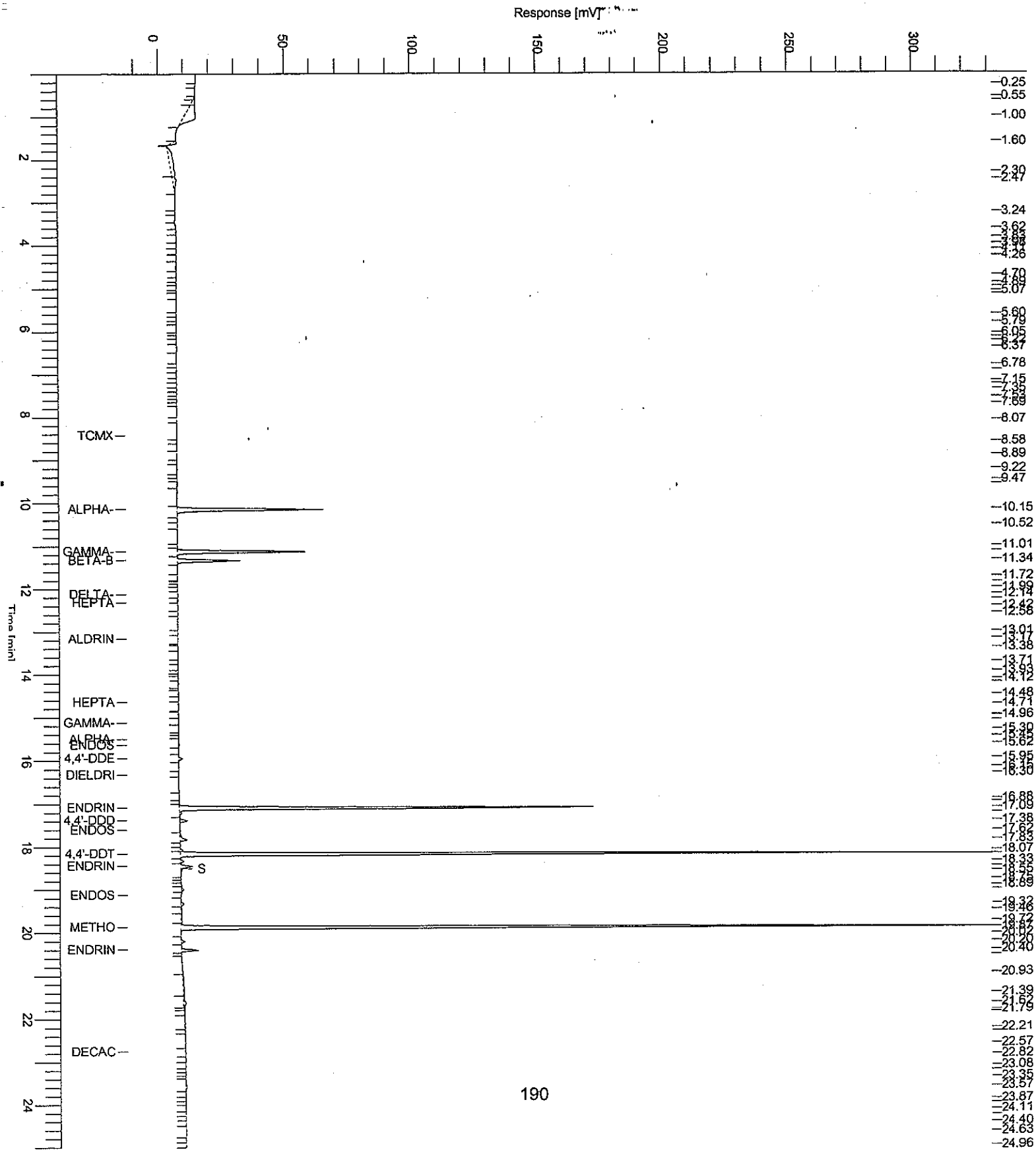
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.423	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.150	172325.00	9.4455	1.000	1	9.45
gamma-BHC	11.128	158707.94	9.6137	1.000	1	9.61
beta-BHC	11.335	71782.00	9.7325	1.000	1	9.73
delta-BHC	12.138	618.47	0.0350	1.000	1	0.04
Heptachlor	12.311	0.00	0.0000	1.000	1	0.00
Aldrin	13.168	218.00	0.0142	1.000	1	0.01
Heptachlor epoxide	14.640	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	15.075	285.51	0.0200	1.000	1	0.02
alpha-Chlordane	15.449	94.00	0.0069	1.000	1	0.01
Endosulfan I	15.619	987.00	0.0767	1.000	1	0.08
4,4'-DDE	15.949	3794.35	0.2876	1.000	1	0.29
Dieldrin	16.297	173.68	0.0127	1.000	1	0.01
Endrin	17.088	477680.62	43.1080	1.000	1	43.11
4,4'-DDD	17.383	9729.34	0.9427	1.000	1	0.94
Endosulfan II	17.615	768.00	0.0657	1.000	1	0.07
4,4'-DDT	18.164	833576.27	88.1959	1.000	1	88.20
Endrin aldehyde	18.449	14226.05	1.4859	1.000	1	1.49
Endosulfan sulfate	19.116	0.00	0.0000	1.000	1	0.00
Methoxychlor	19.871	863786.96	220.6394	1.000	1	220.64
Endrin ketone	20.398	17716.01	1.5785	1.000	1	1.58
Decachlorobiphenyl	22.748	0.00	0.0000	1.000	1	0.00
		2626469.19	385.2610			385.26

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\219b048p.TX0

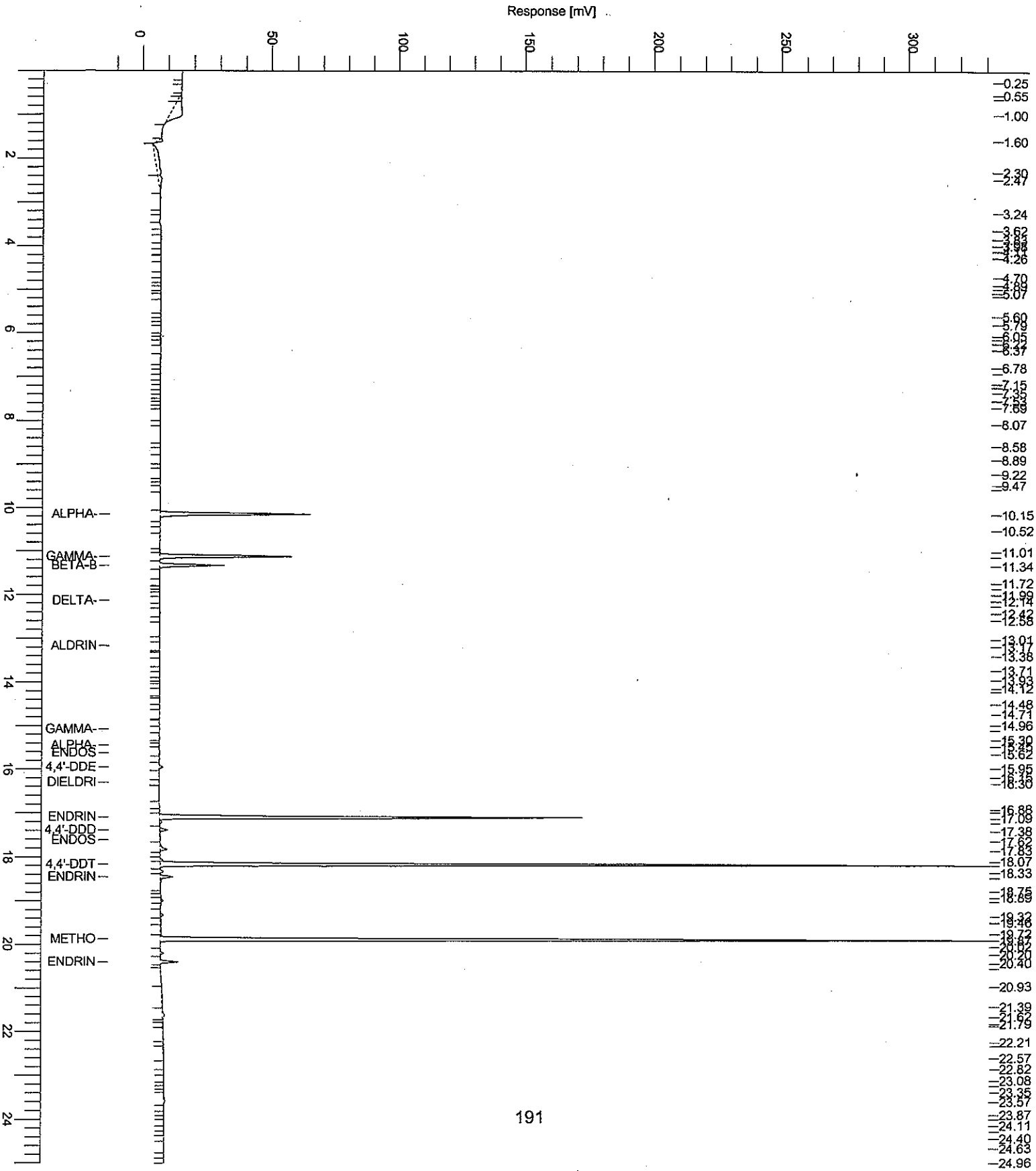
GC23 Rtx-CLPesticides2

ımple Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
eName : G:\gc23\CHb\219b048.raw
ıte : 8/9/04 10:3 1:25 AM
ethod : Time of Injection: 8/7/04 5:58:41 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -13.63 mV High Point : 332.21 mV
ot Offset: -13.63 mV Plot Scale: 345.8 mV



GC23 Rtx-CLPesticides2

ımple Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
eName : G:\gc23\CHb\219b048
ıte : 8/9/04 10:18:37 AM
ethod : gc23ins Time of Injection: 8/7/04 5:58:41 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -12.77 mV High Point : 332.21 mV
cale Factor: 1.0 Plot Offset: -12.77 mV Plot Scale: 345.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 48

Date : 8/9/04 10:28:04 AM
Data Acquisition Time : 8/7/04 5:58:41 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a048p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

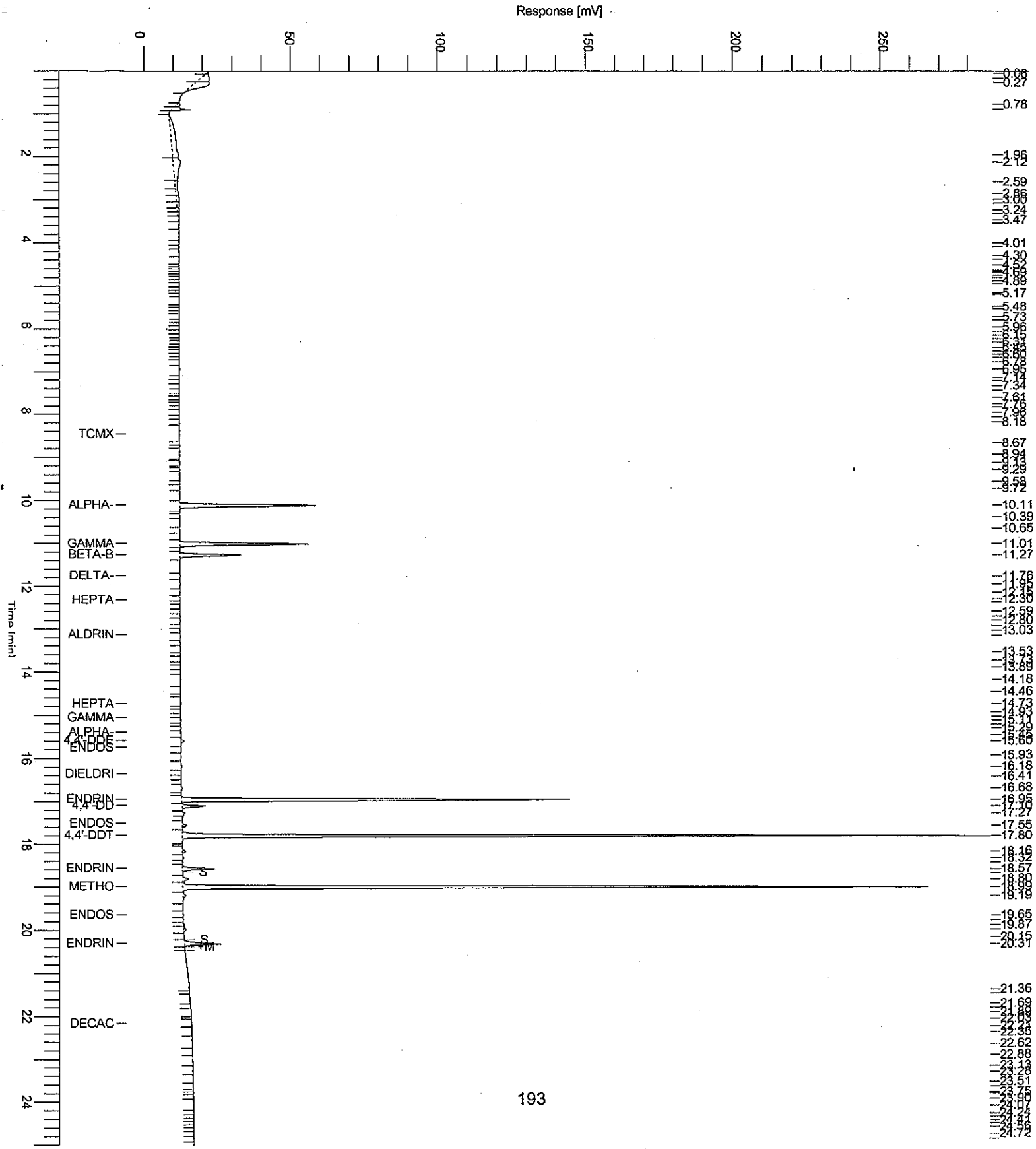
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.452	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.112	157371.00	9.4105	1.000	1	9.41
gamma-BHC	11.012	144724.50	9.6104	1.000	1	9.61
beta-BHC	11.268	63740.00	9.8374	1.000	1	9.84
delta-BHC	11.763	546.00	0.0344	1.000	1	0.03
Heptachlor	12.295	276.45	0.0205	1.000	1	0.02
Aldrin	13.153	308.00	0.0226	1.000	1	0.02
Heptachlor epoxide	14.731	528.00	0.0427	1.000	1	0.04
gamma-Chlordane	15.030	468.01	0.0380	1.000	1	0.04
alpha-Chlordane	15.385	0.00	0.0000	1.000	1	0.00
4,4'-DDE	15.595	3636.04	0.3292	1.000	1	0.33
Endosulfan I	15.739	0.00	0.0000	1.000	1	0.00
Dieldrin	16.349	0.00	0.0000	1.000	1	0.00
Endrin	16.949	379937.00	40.4082	1.000	1	40.41
4,4'-DDD	17.103	22988.00	2.6965	1.000	1	2.70
Endosulfan II	17.502	0.00	0.0000	1.000	1	0.00
4,4'-DDT	17.797	743591.40	87.2989	1.000	1	87.30
Endrin aldehyde	18.568	33353.41	4.1696	1.000	1	4.17
Methoxychlor	18.989	748263.37	227.9648	1.000	1	227.96
Endosulfan sulfate	19.647	289.31	0.0338	1.000	1	0.03
Endrin ketone	20.312	38227.17	3.9512	1.000	1	3.95
Decachlorobiphenyl	22.153	0.00	0.0000	1.000	1	0.00
		2338247.67	395.8686			395.87

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\219a048p.TX0

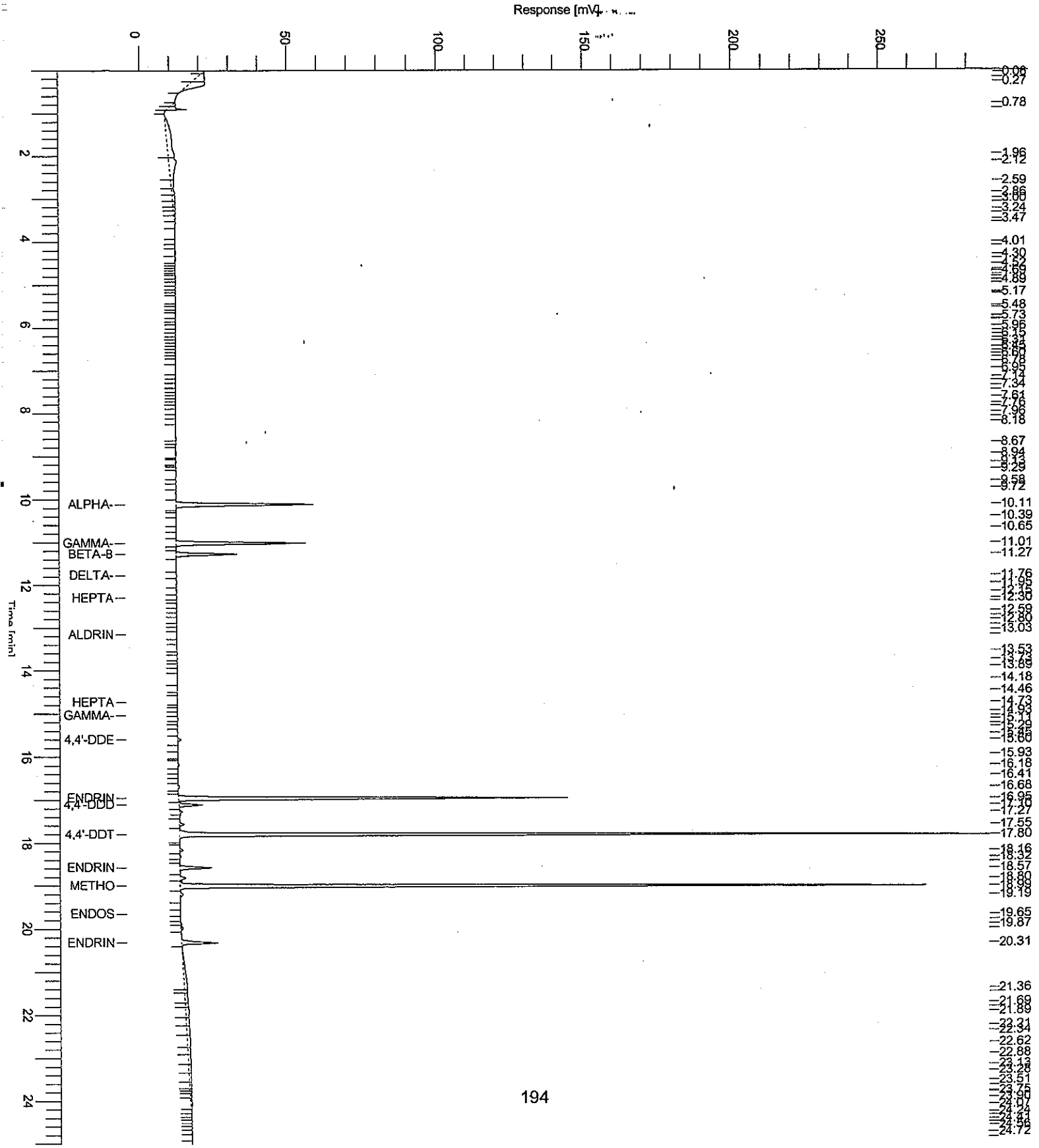
GC23 Rtx-CLPesticides

ample Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
leName : G:\gc23\CHa\219a048.raw
ate : 8/9/04 10:28:09 AM
ethod : Time of Injection: 8/7/04 5:58:41 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -6.24 mV High Point : 288.99 mV
ot Offset: -6.24 mV Plot Scale: 295.2 mV



GC23 Rtx-CLPesticides

ımple Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
eName : G:\gc23\CHa\219a048.raw
ıte : 8/9/04 10:19:25 AM
ethod : gc23ins Time of Injection: 8/7/04 5:58:41 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -5.50 mV High Point : 288.99 mV
cale Factor: 1.0 Plot Offset: -5.50 mV Plot Scale: 294.5 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804320349007 Run Name: Injected: 09-AUG-2004 12:24
Filename: 222_007 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	694489.04
4,4'-DDE	A	3895.21
4,4'-DDD	A	16800.05

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	348454.95
Endrin aldehyde	A	38350.84
Endrin ketone	A	39221.83

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	871433.5
4,4'-DDE	B	5067
4,4'-DDD	B	12597.22

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	462116
Endrin aldehyde	B	44547.3
Endrin ketone	B	38922.7

Endrin Breakdown %: 15
Breakdown Limit %: 15

P=PEM failure

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 8/9/04 1:05:14 PM
Data Acquisition Time : 8/9/04 12:24:03 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\222a007.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL A METH. 8081

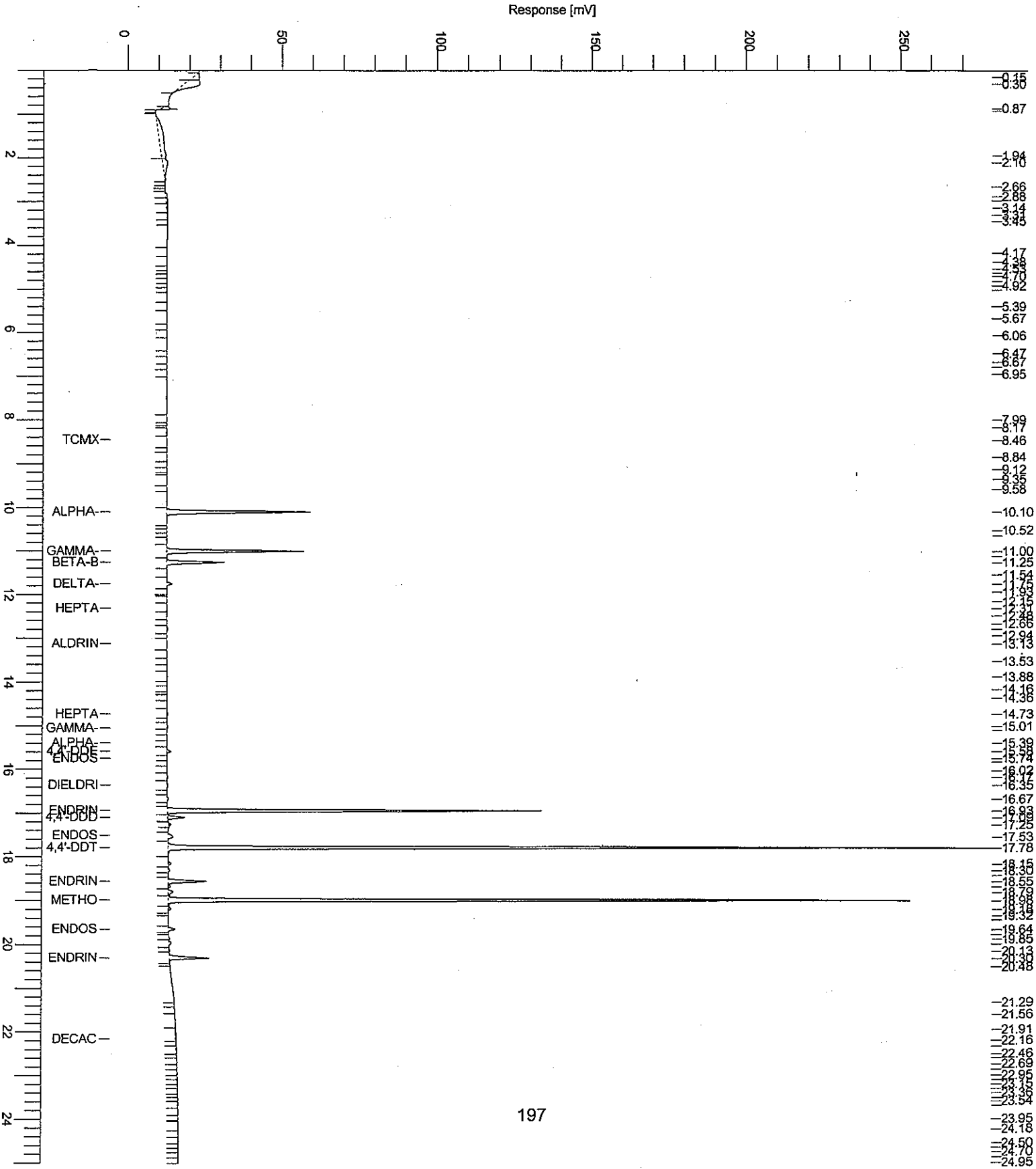
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.461	660.00	0.0604	1.000	1	0.06
alpha-BHC	10.100	149903.00	8.9639	1.000	1	8.96
gamma-BHC	10.999	137420.03	9.1253	1.000	1	9.13
beta-BHC	11.255	60306.31	9.3074	1.000	1	9.31
delta-BHC	11.749	5836.28	0.3682	1.000	1	0.37
Heptachlor	12.310	846.23	0.0628	1.000	1	0.06
Aldrin	13.125	941.50	0.0692	1.000	1	0.07
Heptachlor epoxide	14.726	850.00	0.0687	1.000	1	0.07
gamma-Chlordane	15.008	1772.64	0.1440	1.000	1	0.14
alpha-Chlordane	15.386	666.68	0.0564	1.000	1	0.06
4,4'-DDE	15.581	3895.21	0.3527	1.000	1	0.35
Endosulfan I	15.741	514.95	0.0458	1.000	1	0.05
Dieldrin	16.350	1368.87	0.1164	1.000	1	0.12
Endrin	16.934	348454.95	37.0599	1.000	1	37.06
4,4'-DDD	17.088	16800.05	1.9706	1.000	1	1.97
Endosulfan II	17.528	7379.00	0.7522	1.000	1	0.75
4,4'-DDT	17.783	694489.04	81.5342	1.000	1	81.53
Endrin aldehyde	18.552	38350.84	4.7943	1.000	1	4.79
Methoxychlor	18.979	663515.25	202.1456	1.000	1	202.15
Endosulfan sulfate	19.638	6574.23	0.7681	1.000	1	0.77
Endrin ketone	20.297	39221.83	4.0540	1.000	1	4.05
Decachlorobiphenyl	22.155	3986.68	0.6928	1.000	1	0.69
		2183753.57	362.5129			362.51

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\222a007.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
leName : G:\gc23\CHA\222a007.raw
ate : 8/9/04 1:05:19 PM
ethod : Time of Injection: 8/9/04 12:24:03 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -5.42 mV High Point : 279.39 mV
ot Offset: -5.42 mV Plot Scale: 284.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 8/9/04 1:05:30 PM
Data Acquisition Time : 8/9/04 12:24:03 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\222b007.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL B METH. 8081

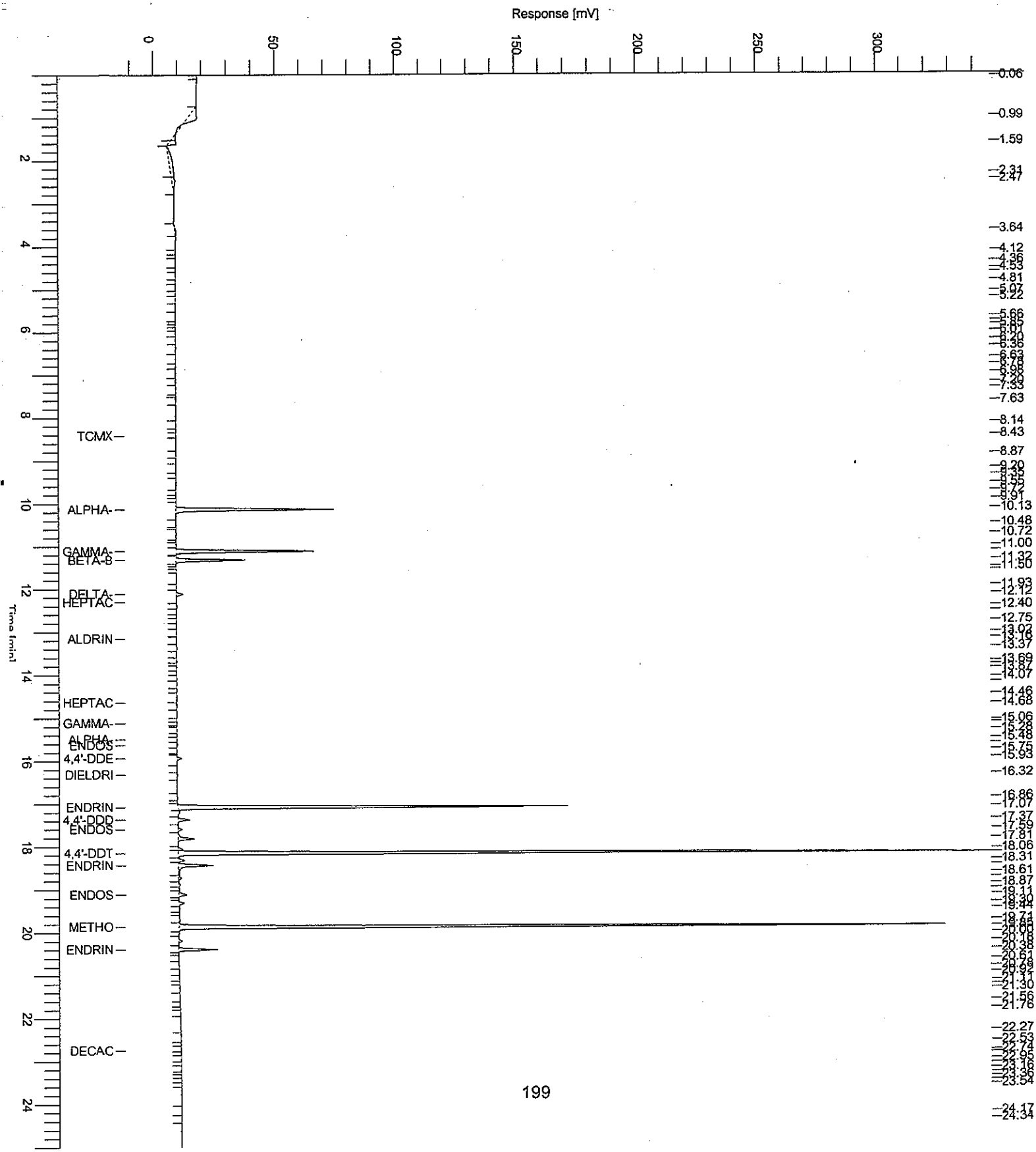
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.426	112.00	0.0094	1.000	1	0.01
alpha-BHC	10.134	187379.29	10.2706	1.000	1	10.27
gamma-BHC	11.112	172776.05	10.4659	1.000	1	10.47
beta-BHC	11.319	79113.50	10.7265	1.000	1	10.73
delta-BHC	12.118	8940.97	0.5064	1.000	1	0.51
Heptachlor	12.311	0.00	0.0000	1.000	1	0.00
Aldrin	13.158	483.48	0.0316	1.000	1	0.03
Heptachlor epoxide	14.684	710.00	0.0505	1.000	1	0.05
gamma-Chlordane	15.112	239.36	0.0168	1.000	1	0.02
alpha-Chlordane	15.484	243.00	0.0177	1.000	1	0.02
Endosulfan I	15.604	1093.50	0.0850	1.000	1	0.08
4,4'-DDE	15.933	5067.00	0.3841	1.000	1	0.38
Dieldrin	16.316	652.00	0.0478	1.000	1	0.05
Endrin	17.070	462116.00	41.7034	1.000	1	41.70
4,4'-DDD	17.366	12597.22	1.2206	1.000	1	1.22
Endosulfan II	17.588	4809.86	0.4114	1.000	1	0.41
4,4'-DDT	18.147	871433.50	92.2014	1.000	1	92.20
Endrin aldehyde	18.431	44547.30	4.6528	1.000	1	4.65
Endosulfan sulfate	19.111	11166.47	1.0426	1.000	1	1.04
Methoxychlor	19.854	849321.36	216.9444	1.000	1	216.94
Endrin ketone	20.382	38922.70	3.4681	1.000	1	3.47
Decachlorobiphenyl	22.740	254.01	0.0366	1.000	1	0.04
		2751978.57	394.2935			394.29

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\222b007.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
leName : G:\gc23\CHB\222b007.raw
ate : 8/9/04 1:05:35 PM
ethod :
Time of Injection: 8/9/04 12:24:03 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -12.30 mV High Point : 347.37 mV
ot Offset: -12.30 mV Plot Scale: 359.7 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804320349022 Run Name: Injected: 09-AUG-2004 22:25
Filename: 222_022 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	648215.5
4,4'-DDE	A	3591.12
4,4'-DDD	A	34117.53

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	348426.96
Endrin aldehyde	A	33002.69
Endrin ketone	A	42704.75

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1062435.1
4,4'-DDE	B	4496
4,4'-DDD	B	20829.73

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	594974.1
Endrin aldehyde	B	24799.55
Endrin ketone	B	29952.69

Endrin Breakdown %: 8
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 8/10/04 10:18:16 AM
Data Acquisition Time : 8/9/04 10:25:16 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\222b022.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL B METH. 8081

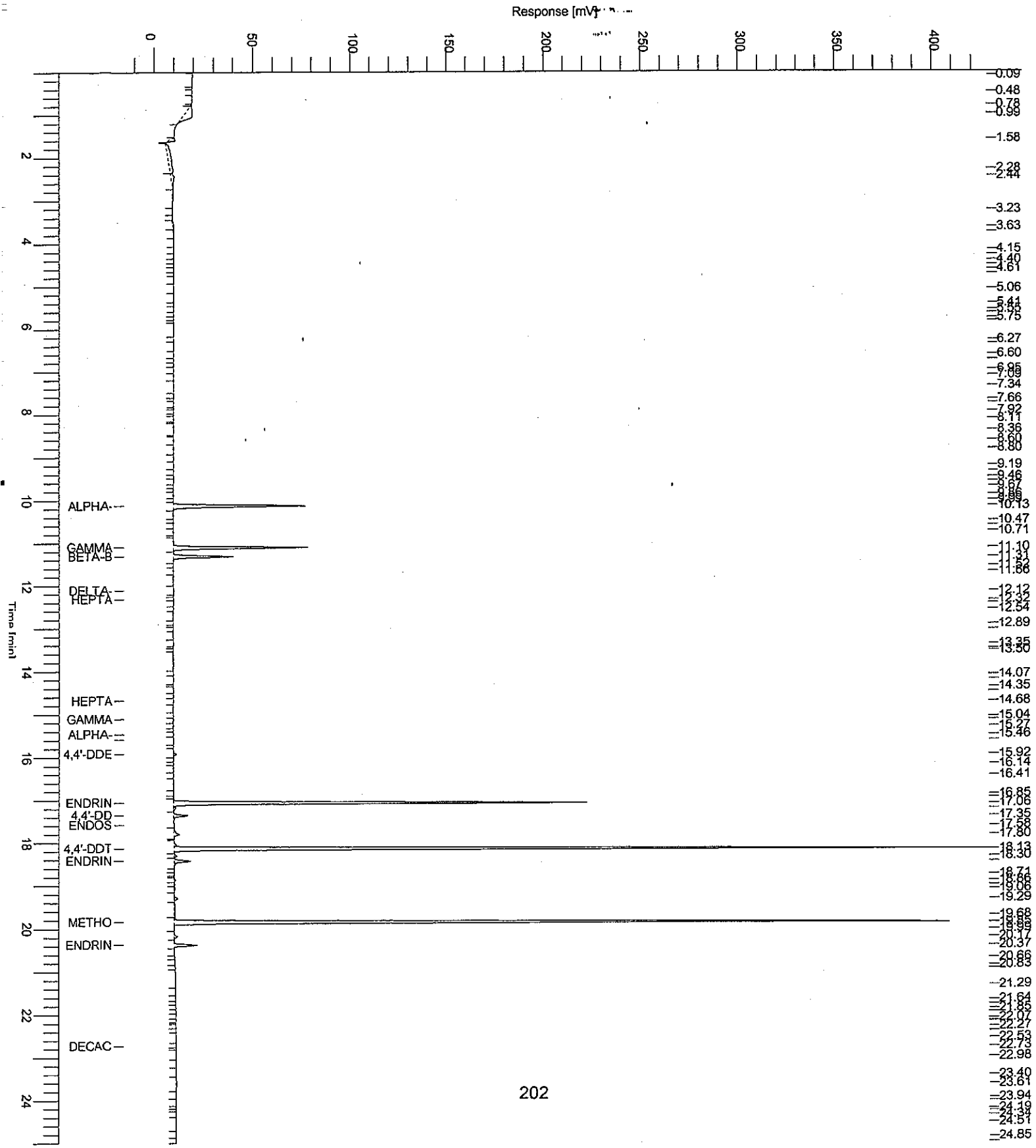
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.423	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.129	212441.50	11.6443	1.000	1	11.64
gamma-BHC	11.102	197837.00	11.9839	1.000	1	11.98
beta-BHC	11.314	89414.00	12.1231	1.000	1	12.12
delta-BHC	12.115	1352.00	0.0766	1.000	1	0.08
Heptachlor	12.323	184.21	0.0143	1.000	1	0.01
Aldrin	13.162	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.684	396.00	0.0282	1.000	1	0.03
gamma-Chlordane	15.110	256.53	0.0180	1.000	1	0.02
alpha-Chlordane	15.463	149.00	0.0109	1.000	1	0.01
Endosulfan I	15.591	1181.00	0.0918	1.000	1	0.09
4,4'-DDE	15.920	4496.00	0.3408	1.000	1	0.34
Dieldrin	16.319	0.00	0.0000	1.000	1	0.00
Endrin	17.064	594974.10	53.6931	1.000	1	53.69
4,4'-DDD	17.353	20829.73	2.0182	1.000	1	2.02
Endosulfan II	17.582	2767.00	0.2366	1.000	1	0.24
4,4'-DDT	18.133	1062435.10	112.4102	1.000	1	112.41
Endrin aldehyde	18.419	24799.55	2.5902	1.000	1	2.59
Endosulfan sulfate	19.116	0.00	0.0000	1.000	1	0.00
Methoxychlor	19.845	1094366.10	279.5369	1.000	1	279.54
Endrin ketone	20.370	29952.69	2.6689	1.000	1	2.67
Decachlorobiphenyl	22.730	229.60	0.0331	1.000	1	0.03
		3338061.11	489.5190			489.52

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\222b022.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1389 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHB\222b022
ate : 8/10/04 10:18:18 AM
lethod : gc23ins Time of Injection: 8/9/04 10:25:16 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -15.23 mV High Point : 427.94 mV
cale Factor: 1.0 Plot Offset: -15.23 mV Plot Scale: 443.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 8/10/04 10:19:22 AM
Data Acquisition Time : 8/9/04 10:25:16 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\222a022.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL A METH. 8081

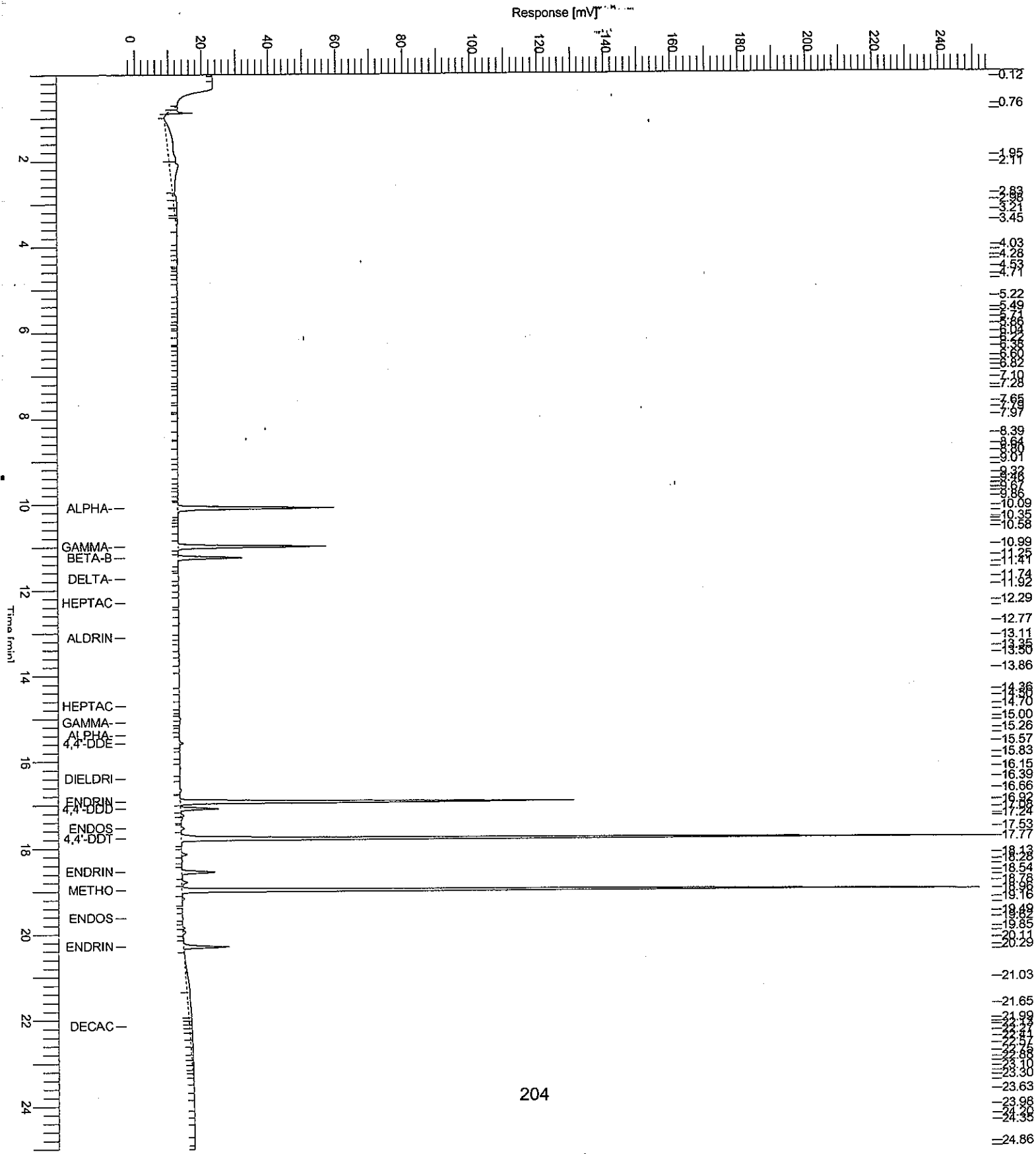
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.452	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.086	154256.21	9.2242	1.000	1	9.22
gamma-BHC	10.986	140803.00	9.3500	1.000	1	9.35
beta-BHC	11.246	61999.00	9.5687	1.000	1	9.57
delta-BHC	11.735	678.00	0.0428	1.000	1	0.04
Heptachlor	12.288	443.30	0.0329	1.000	1	0.03
Aldrin	13.105	104.00	0.0076	1.000	1	0.01
Heptachlor epoxide	14.702	419.00	0.0339	1.000	1	0.03
gamma-Chlordane	15.087	616.98	0.0501	1.000	1	0.05
alpha-Chlordane	15.379	663.88	0.0562	1.000	1	0.06
4,4'-DDE	15.567	3591.12	0.3252	1.000	1	0.33
Endosulfan I	15.739	0.00	0.0000	1.000	1	0.00
Dieldrin	16.389	136.40	0.0116	1.000	1	0.01
Endrin	16.920	348426.96	37.0569	1.000	1	37.06
4,4'-DDD	17.079	34117.53	4.0019	1.000	1	4.00
Endosulfan II	17.532	2982.50	0.3040	1.000	1	0.30
4,4'-DDT	17.768	648215.50	76.1016	1.000	1	76.10
Endrin aldehyde	18.539	33002.69	4.1257	1.000	1	4.13
Methoxychlor	18.965	633872.88	193.1148	1.000	1	193.11
Endosulfan sulfate	19.622	696.58	0.0814	1.000	1	0.08
Endrin ketone	20.285	42704.75	4.4140	1.000	1	4.41
Decachlorobiphenyl	22.133	3778.06	0.6565	1.000	1	0.66
		2111508.35	348.5600			348.56

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\222a022.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1389 Sample #: 10-250ug/L Page 1 of 1
leName : G:\gc23\CHa\222a022.raw
ate : 8/10/04 10:19:27 AM
ethod : gc23irs Time of Injection: 8/9/04 10:25:16 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.42 mV High Point : 255.08 mV
cale Factor: 1.0 Plot Offset: -3.42 mV Plot Scale: 258.5 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804322003004 Run Name: Injected: 10-AUG-2004 14:43
Filename: 223_004 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	685420.7
4,4'-DDE	A	3481.5
4,4'-DDD	A	25697.03

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	355726.47
Endrin aldehyde	A	33408.13
Endrin ketone	A	41548.24

Endrin Breakdown %: **17 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	888771.24
4,4'-DDE	B	4967.97
4,4'-DDD	B	21661.66

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	492642.09
Endrin aldehyde	B	34448.00
Endrin ketone	B	36055.23

Endrin Breakdown %: 13
Breakdown Limit %: 15

P=PEM failure

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 4

Date : 8/10/04 5:15:33 PM
Data Acquisition Time : 8/10/04 2:43:49 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\223a004.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL A METH. 8081

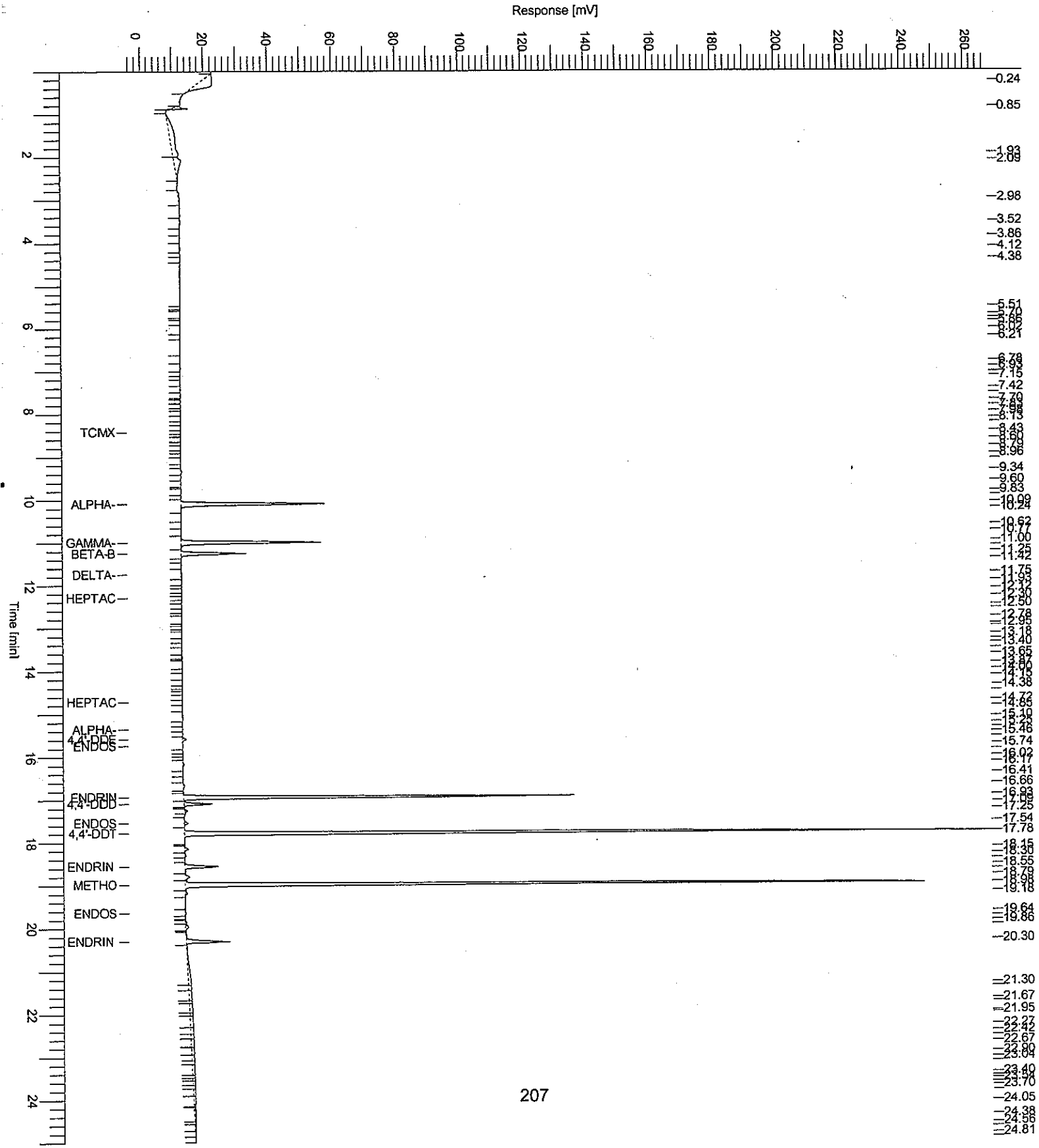
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.426	100.00	0.0091	1.000	1	0.01
alpha-BHC	10.095	158003.00	9.4483	1.000	1	9.45
gamma-BHC	10.995	145428.68	9.6571	1.000	1	9.66
beta-BHC	11.251	63513.23	9.8024	1.000	1	9.80
delta-BHC	11.747	644.66	0.0407	1.000	1	0.04
Heptachlor	12.297	226.50	0.0168	1.000	1	0.02
Aldrin	13.121	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.721	380.26	0.0307	1.000	1	0.03
gamma-Chlordane	15.048	0.00	0.0000	1.000	1	0.00
alpha-Chlordane	15.356	156.24	0.0132	1.000	1	0.01
4,4'-DDE	15.580	3481.50	0.3152	1.000	1	0.32
Endosulfan I	15.736	374.00	0.0333	1.000	1	0.03
Dieldrin	16.349	0.00	0.0000	1.000	1	0.00
Endrin	16.933	355726.47	37.8333	1.000	1	37.83
4,4'-DDD	17.088	25697.03	3.0142	1.000	1	3.01
Endosulfan II	17.540	3730.30	0.3802	1.000	1	0.38
4,4'-DDT	17.782	685420.70	80.4695	1.000	1	80.47
Endrin aldehyde	18.552	33408.13	4.1764	1.000	1	4.18
Methoxychlor	18.979	659282.38	200.8560	1.000	1	200.86
Endosulfan sulfate	19.642	536.12	0.0626	1.000	1	0.06
Endrin ketone	20.298	41548.24	4.2944	1.000	1	4.29
Decachlorobiphenyl	22.153	0.00	0.0000	1.000	1	0.00
		2177657.45	360.4536			360.45

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\223a004.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
leName : G:\gc23\CHA\223a004.raw
ate : 8/10/04 5:15:35 PM
ethod : gc23ins Time of Injection: 8/10/04 2:43:49 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -4.67 mV High Point : 267.77 mV
cale Factor: 1.0 Plot Offset: -4.67 mV Plot Scale: 272.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 4

Date : 8/10/04 5:15:48 PM
Data Acquisition Time : 8/10/04 2:43:49 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\223b004.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL B METH. 8081

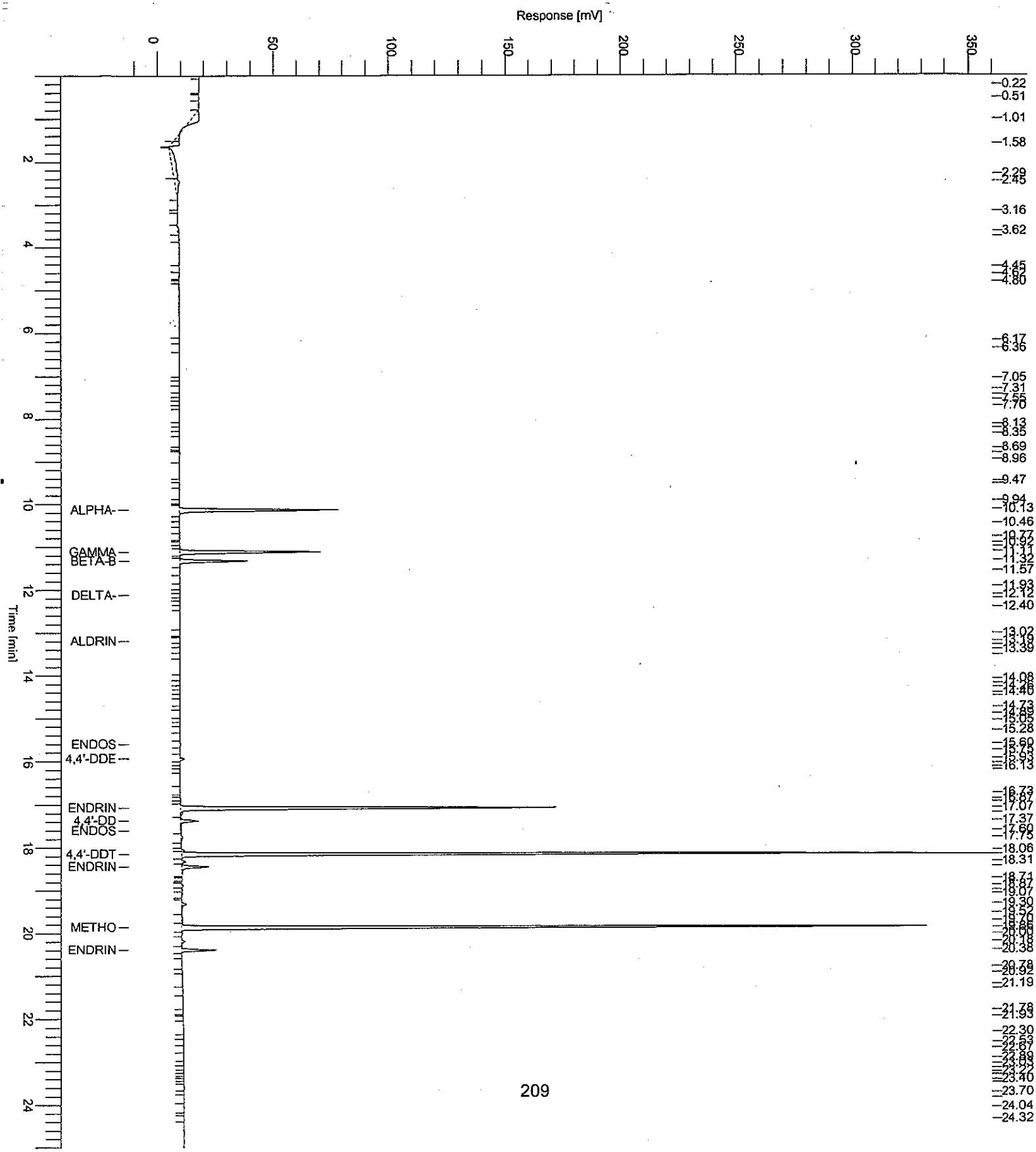
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.423	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.134	198436.00	10.8766	1.000	1	10.88
gamma-BHC	11.113	183287.91	11.1026	1.000	1	11.10
beta-BHC	11.319	83277.00	11.2910	1.000	1	11.29
delta-BHC	12.120	649.50	0.0368	1.000	1	0.04
Heptachlor	12.311	0.00	0.0000	1.000	1	0.00
Aldrin	13.191	187.85	0.0123	1.000	1	0.01
Heptachlor epoxide	14.640	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	15.118	0.00	0.0000	1.000	1	0.00
alpha-Chlordane	15.494	0.00	0.0000	1.000	1	0.00
Endosulfan I	15.602	1032.48	0.0802	1.000	1	0.08
4,4'-DDE	15.934	4967.97	0.3766	1.000	1	0.38
Dieldrin	16.319	0.00	0.0000	1.000	1	0.00
Endrin	17.072	492642.09	44.4582	1.000	1	44.46
4,4'-DDD	17.367	21661.66	2.0988	1.000	1	2.10
Endosulfan II	17.598	1706.00	0.1459	1.000	1	0.15
4,4'-DDT	18.148	888771.24	94.0358	1.000	1	94.04
Endrin aldehyde	18.433	34448.00	3.5980	1.000	1	3.60
Endosulfan sulfate	19.116	0.00	0.0000	1.000	1	0.00
Methoxychlor	19.855	892980.87	228.0965	1.000	1	228.10
Endrin ketone	20.384	36055.23	3.2126	1.000	1	3.21
Decachlorobiphenyl	22.748	0.00	0.0000	1.000	1	0.00
		2840103.81	409.4220			409.42

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\223b004.TX0

GC23 Rtx-CLPesticides2

ample Name : p-en,04ws1389 Sample #: 10-250 ug/L Page 1 of 1
leName : G:\gc23\CHb\223b004
ate : 8/10/04 5:15:51 PM
ethod : gc23ins Time of Injection: 8/10/04 2:43:49 PM
lart Time : 0.00 min End Time : 25.00 min Low Point : -12.89 mV High Point : 360.35 mV
cale Factor: 1.0 Plot Offset: -12.89 mV Plot Scale: 373.2 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804322003020 Run Name: Injected: 11-AUG-2004 00:33
Filename: 223_020 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	668272.43
4,4'-DDE	A	3535.58
4,4'-DDD	A	52465.06

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	384643.58
Endrin aldehyde	A	27449.36
Endrin ketone	A	42687.45

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	991559.94
4,4'-DDE	B	4546.29
4,4'-DDD	B	48001.41

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	591410.09
Endrin aldehyde	B	23219.76
Endrin ketone	B	33552.5

Endrin Breakdown %: 9
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/11/04 10:38:49 AM
Data Acquisition Time : 8/11/04 12:33:04 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File: G:\gc23\CHA\223a020.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL A METH. 8081

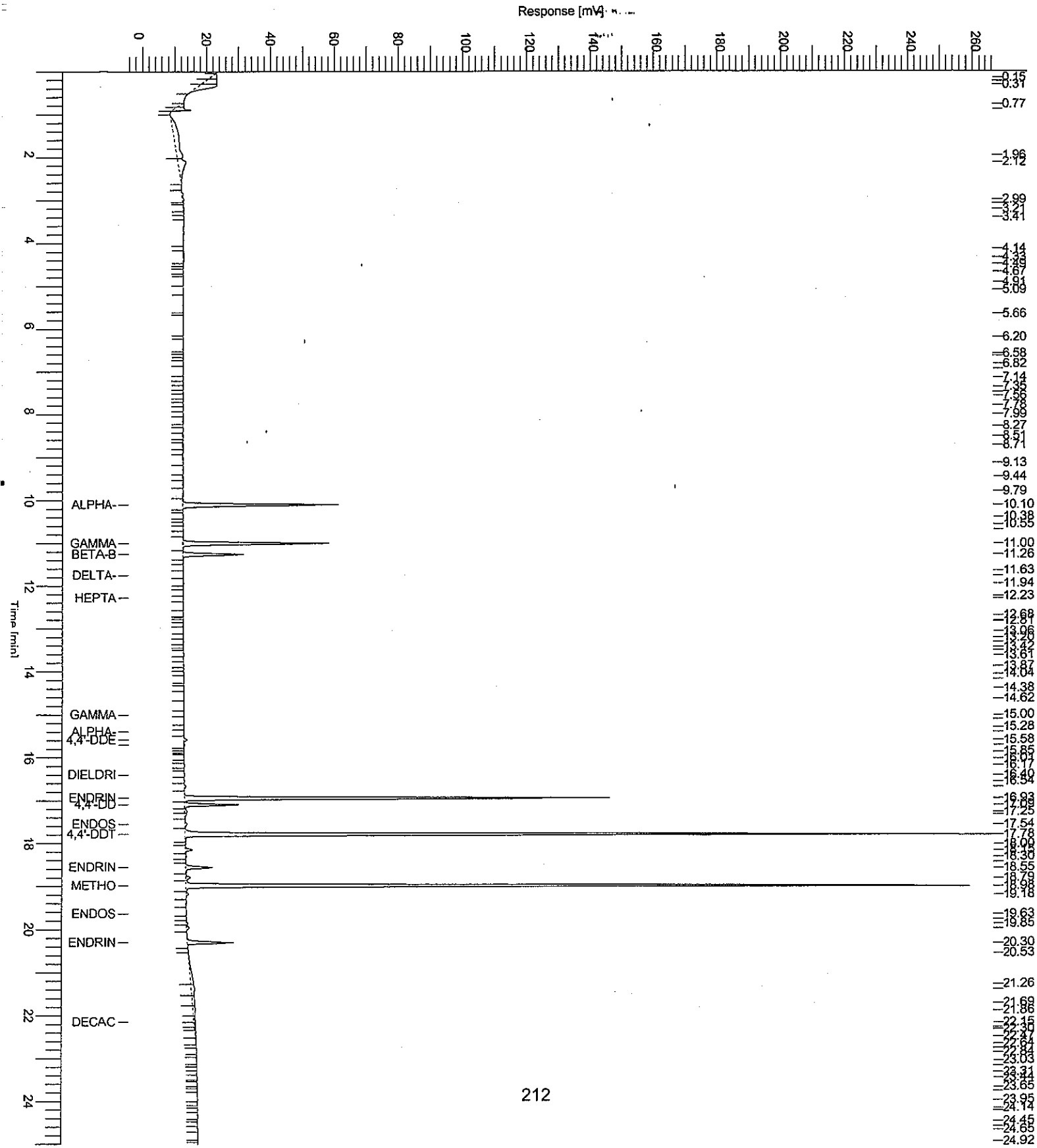
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.452	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.101	157459.50	9.4158	1.000	1	9.42
gamma-BHC	11.001	145444.00	9.6582	1.000	1	9.66
beta-BHC	11.256	63214.00	9.7562	1.000	1	9.76
delta-BHC	11.749	650.17	0.0410	1.000	1	0.04
Heptachlor	12.281	413.38	0.0307	1.000	1	0.03
Aldrin	13.121	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.729	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	15.000	336.60	0.0273	1.000	1	0.03
alpha-Chlordane	15.393	438.50	0.0371	1.000	1	0.04
4,4'-DDE	15.581	3535.58	0.3201	1.000	1	0.32
Endosulfan I	15.703	803.00	0.0714	1.000	1	0.07
Dieldrin	16.397	472.00	0.0401	1.000	1	0.04
Endrin	16.935	384643.58	40.9088	1.000	1	40.91
4,4'-DDD	17.089	52465.06	6.1541	1.000	1	6.15
Endosulfan II	17.544	4564.04	0.4652	1.000	1	0.47
4,4'-DDT	17.783	668272.43	78.4563	1.000	1	78.46
Endrin aldehyde	18.553	27449.36	3.4315	1.000	1	3.43
Methoxychlor	18.979	683431.16	208.2131	1.000	1	208.21
Endosulfan sulfate	19.633	482.00	0.0563	1.000	1	0.06
Endrin ketone	20.298	42687.45	4.4122	1.000	1	4.41
Decachlorobiphenyl	22.145	4138.61	0.7192	1.000	1	0.72
		2240900.42	372.2147			372.21

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\223a020.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1389 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHA\223a020.raw
ate : 8/11/04 10:38:51 AM
lethod : gc23ins Time of Injection: 8/11/04 12:33:04 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -4.51 mV High Point : 266.29 mV
cale Factor: 1.0 Plot Offset: -4.51 mV Plot Scale: 270.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1389
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/11/04 10:39:15 AM
Data Acquisition Time : 8/11/04 12:33:04 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\223b020.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL B METH. 8081

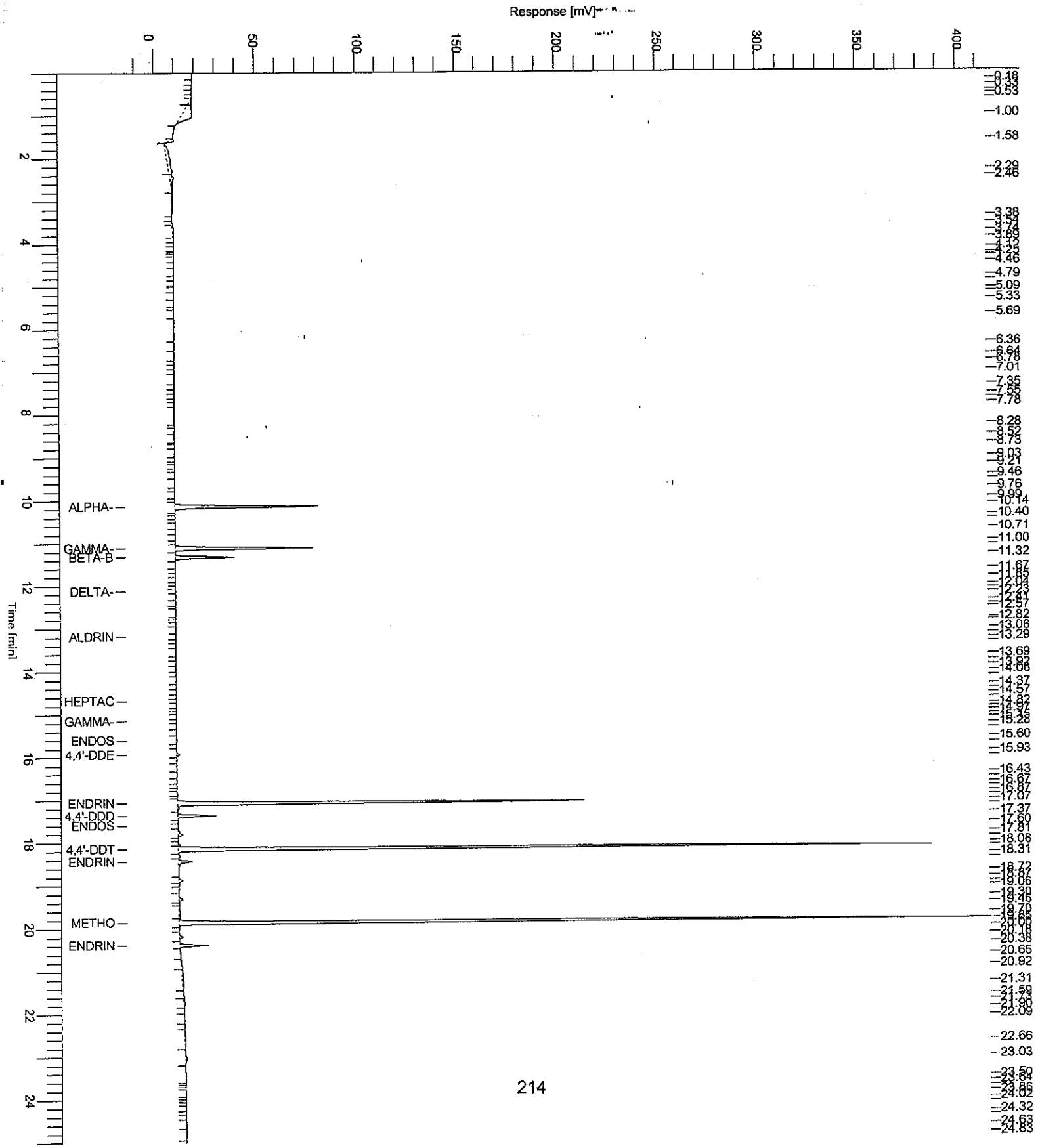
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.423	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.137	211589.86	11.5976	1.000	1	11.60
gamma-BHC	11.115	195285.14	11.8294	1.000	1	11.83
beta-BHC	11.322	87704.50	11.8913	1.000	1	11.89
delta-BHC	12.129	486.61	0.0276	1.000	1	0.03
Heptachlor	12.311	0.00	0.0000	1.000	1	0.00
Aldrin	13.185	251.43	0.0164	1.000	1	0.02
Heptachlor epoxide	14.680	294.96	0.0210	1.000	1	0.02
gamma-Chlordane	15.149	193.91	0.0136	1.000	1	0.01
alpha-Chlordane	15.494	0.00	0.0000	1.000	1	0.00
Endosulfan I	15.603	1431.57	0.1112	1.000	1	0.11
4,4'-DDE	15.933	4546.29	0.3446	1.000	1	0.34
Dieldrin	16.319	0.00	0.0000	1.000	1	0.00
Endrin	17.071	591410.09	53.3715	1.000	1	53.37
4,4'-DDD	17.366	48001.41	4.6509	1.000	1	4.65
Endosulfan II	17.598	515.60	0.0441	1.000	1	0.04
4,4'-DDT	18.146	991559.94	104.9113	1.000	1	104.91
Endrin aldehyde	18.432	23219.76	2.4252	1.000	1	2.43
Endosulfan sulfate	19.116	0.00	0.0000	1.000	1	0.00
Methoxychlor	19.853	1054298.90	269.3024	1.000	1	269.30
Endrin ketone	20.382	33552.50	2.9896	1.000	1	2.99
Decachlorobiphenyl	22.748	0.00	0.0000	1.000	1	0.00
		3244342.47	473.5478			473.55

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\223b020.TX0

GC23 Rtx-CLPesticides2

.mple Name : pem,04ws1389 Sample #: 10-250ug/L Page 1 of 1
eName : G:\gc23\CHb\223b020
ıte : 8/11/04 10:39:17 AM
ethod : gc23ins Time of Injection: 8/11/04 12:33:04 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -15.05 mV High Point : 415.28 mV
ale Factor: 1.0 Plot Offset: -15.05 mV Plot Scale: 430.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804316738034
Calnum : 804316738001
Standards: 04WS0926

Run Name : pest_4
Filename : 219_034
Caldate : 06-AUG-2004

IDF : 1.0
Injected : 07-AUG-2004 11:09
Caltype :

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15780	20.00000	18.87246	pg	-6	15	
gamma-BHC	A	15059	13976	20.00000	18.56075	pg	-7	15	
beta-BHC	A	6479.4	5938.6	20.00000	18.33068	pg	-8	15	
delta-BHC	A	15851	13640	20.00000	17.21087	pg	-14	15	
Heptachlor	A	13477	12135	20.00000	18.00851	pg	-10	15	
Aldrin	A	13606	12442	20.00000	18.28821	pg	-9	15	
Heptachlor epoxide	A	12374	11211	20.00000	18.12131	pg	-9	15	
gamma-Chlordane	A	12312	11040	20.00000	17.93345	pg	-10	15	
alpha-Chlordane	A	11811	10448	20.00000	17.69189	pg	-12	15	
4,4'-DDE	A	11044	9881.7	40.00000	35.79061	pg	-11	15	
Endosulfan I	A	11240	9919.3	20.00000	17.65002	pg	-12	15	
Dieldrin	A	11758	10592	40.00000	36.03384	pg	-10	15	
Endrin	A	9402.5	7633.7	40.00000	32.47544	pg	**-19**	15	c- ***
4,4'-DDD	A	8525.3	7528.9	40.00000	35.32494	pg	-12	15	
Endosulfan II	A	9810.2	8511.1	40.00000	34.70294	pg	-13	15	
4,4'-DDT	A	8517.8	6873.8	40.00000	32.27971	pg	**-19**	15	c- ***
Endrin aldehyde	A	7999.2	6491.7	40.00000	32.46176	pg	**-19**	15	c- rsd ***
Methoxychlor	A	3282.4	2925.6	200.0000	178.2634	pg	-11	15	
Endosulfan sulfate	A	8559.3	6963.8	40.00000	32.54357	pg	**-19**	15	c- rsd ***
Endrin ketone	A	9674.9	8317.8	40.00000	34.38906	pg	-14	15	
TCMX	A	10936	10434	40.00000	38.16203	pg	-5	15	
Decachlorobiphenyl	A	5754.4	4385.7	40.00000	30.48541	pg	**-24**	15	c-
alpha-BHC	B	18244	17985	20.00000	19.71596	pg	-1	15	
gamma-BHC	B	16509	16116	20.00000	19.52394	pg	-2	15	
beta-BHC	B	7375.5	7129.1	20.00000	19.33173	pg	-3	15	
delta-BHC	B	17657	16378	20.00000	18.55082	pg	-7	15	
Heptachlor	B	12899	11554	20.00000	17.91498	pg	-10	15	
Aldrin	B	15312	15023	20.00000	19.62257	pg	-2	15	
Heptachlor epoxide	B	14048	13736	20.00000	19.55594	pg	-2	15	
gamma-Chlordane	B	14282	13891	20.00000	19.45294	pg	-3	15	
alpha-Chlordane	B	13696	13365	20.00000	19.51719	pg	-2	15	
4,4'-DDE	B	13193	12975	40.00000	39.33737	pg	-2	15	
Endosulfan I	B	12868	12659	20.00000	19.67468	pg	-2	15	
Dieldrin	B	13646	13425	40.00000	39.35420	pg	-2	15	
Endrin	B	11081	10623	40.00000	38.34686	pg	-4	15	
4,4'-DDD	B	10321	9893.4	40.00000	38.34349	pg	-4	15	
Endosulfan II	B	11693	10925	40.00000	37.37282	pg	-7	15	
4,4'-DDT	B	9451.4	8689.3	40.00000	36.77464	pg	-8	15	
Endrin aldehyde	B	9574.2	8018.6	40.00000	33.50102	pg	**-16**	15	c- rsd ***
Methoxychlor	B	3914.9	3751.0	200.0000	191.6276	pg	-4	15	
Endosulfan sulfate	B	10710	9284.4	40.00000	34.67400	pg	-13	15	
Endrin ketone	B	11223	10000	40.00000	35.64158	pg	-11	15	
TCMX	B	11938	11812	40.00000	39.58068	pg	-1	15	
Decachlorobiphenyl	B	6936.5	5584.5	40.00000	32.20398	pg	**-19**	15	c-
Average EPA 8081A	A			(count=22)			12	15	
Average EPA 8081A	B			(count=22)			6	15	

-=low bias c=CCV rsd=ICAL %RSD failure

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 34

Date : 8/9/04 10:29:48 AM
Data Acquisition Time : 8/7/04 11:09:33 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b034p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

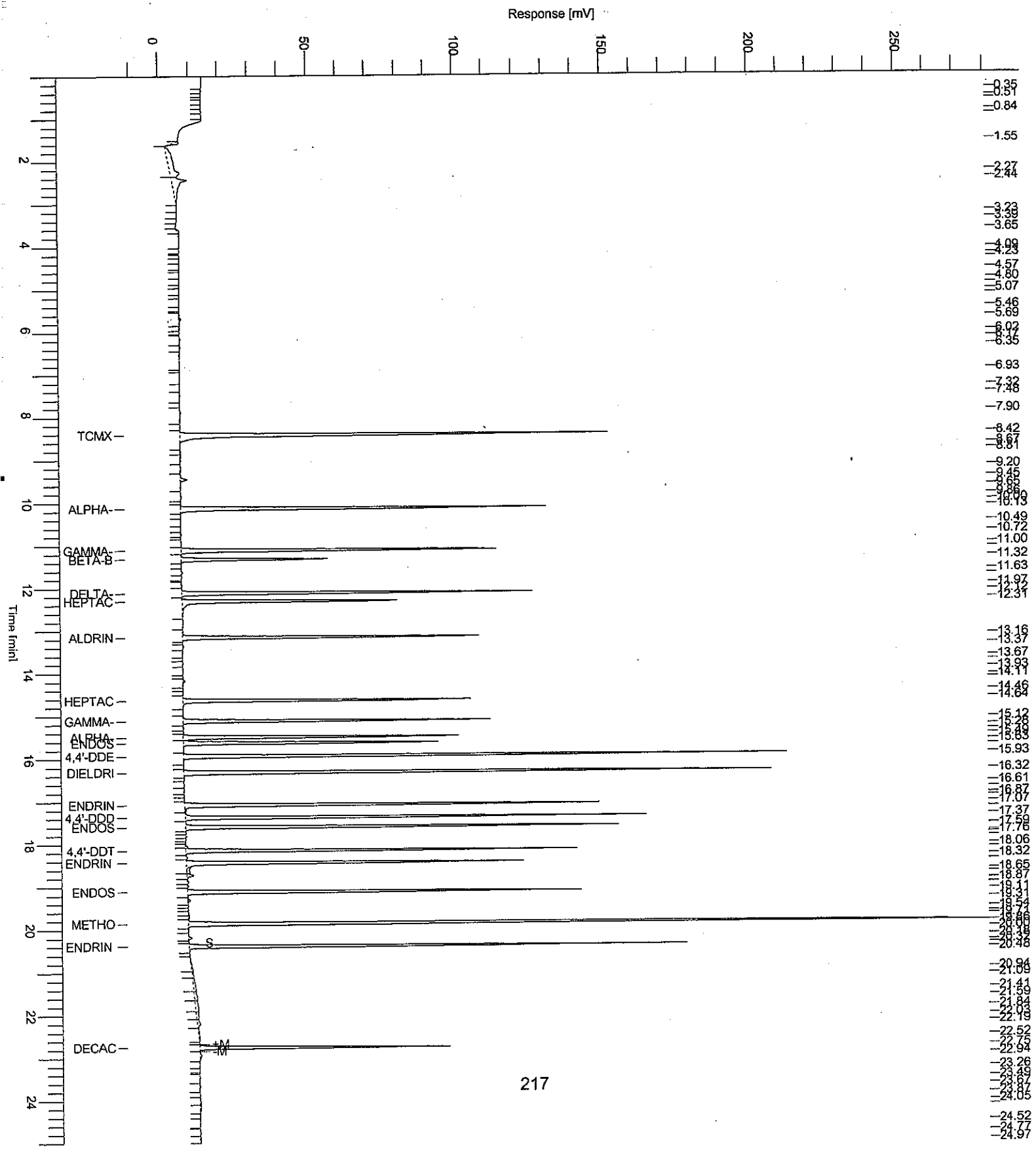
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.419	472499.00	39.5807	1.000	1	39.58
alpha-BHC	10.134	359702.38	19.7160	1.000	1	19.72
gamma-BHC	11.113	322311.46	19.5239	1.000	1	19.52
beta-BHC	11.319	142581.00	19.3317	1.000	1	19.33
delta-BHC	12.116	327555.83	18.5508	1.000	1	18.55
Heptachlor	12.306	231078.50	17.9150	1.000	1	17.91
Aldrin	13.155	300459.50	19.6226	1.000	1	19.62
Heptachlor epoxide	14.636	274725.00	19.5559	1.000	1	19.56
gamma-Chlordane	15.116	277817.42	19.4529	1.000	1	19.45
alpha-Chlordane	15.488	267305.54	19.5172	1.000	1	19.52
Endosulfan I	15.629	253177.68	19.6747	1.000	1	19.67
4,4'-DDE	15.933	518987.00	39.3374	1.000	1	39.34
Dieldrin	16.316	537015.00	39.3542	1.000	1	39.35
Endrin	17.073	424922.01	38.3469	1.000	1	38.35
4,4'-DDD	17.367	395736.49	38.3435	1.000	1	38.34
Endosulfan II	17.595	436987.85	37.3728	1.000	1	37.37
4,4'-DDT	18.148	347572.37	36.7746	1.000	1	36.77
Endrin aldehyde	18.432	320745.85	33.5010	1.000	1	33.50
Endosulfan sulfate	19.114	371375.62	34.6740	1.000	1	34.67
Methoxychlor	19.862	750208.01	191.6276	1.000	1	191.63
Endrin ketone	20.384	400005.47	35.6416	1.000	1	35.64
Decachlorobiphenyl	22.747	223381.67	32.2040	1.000	1	32.20
		7956150.66	789.6190			789.62

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\219b034p.TX0

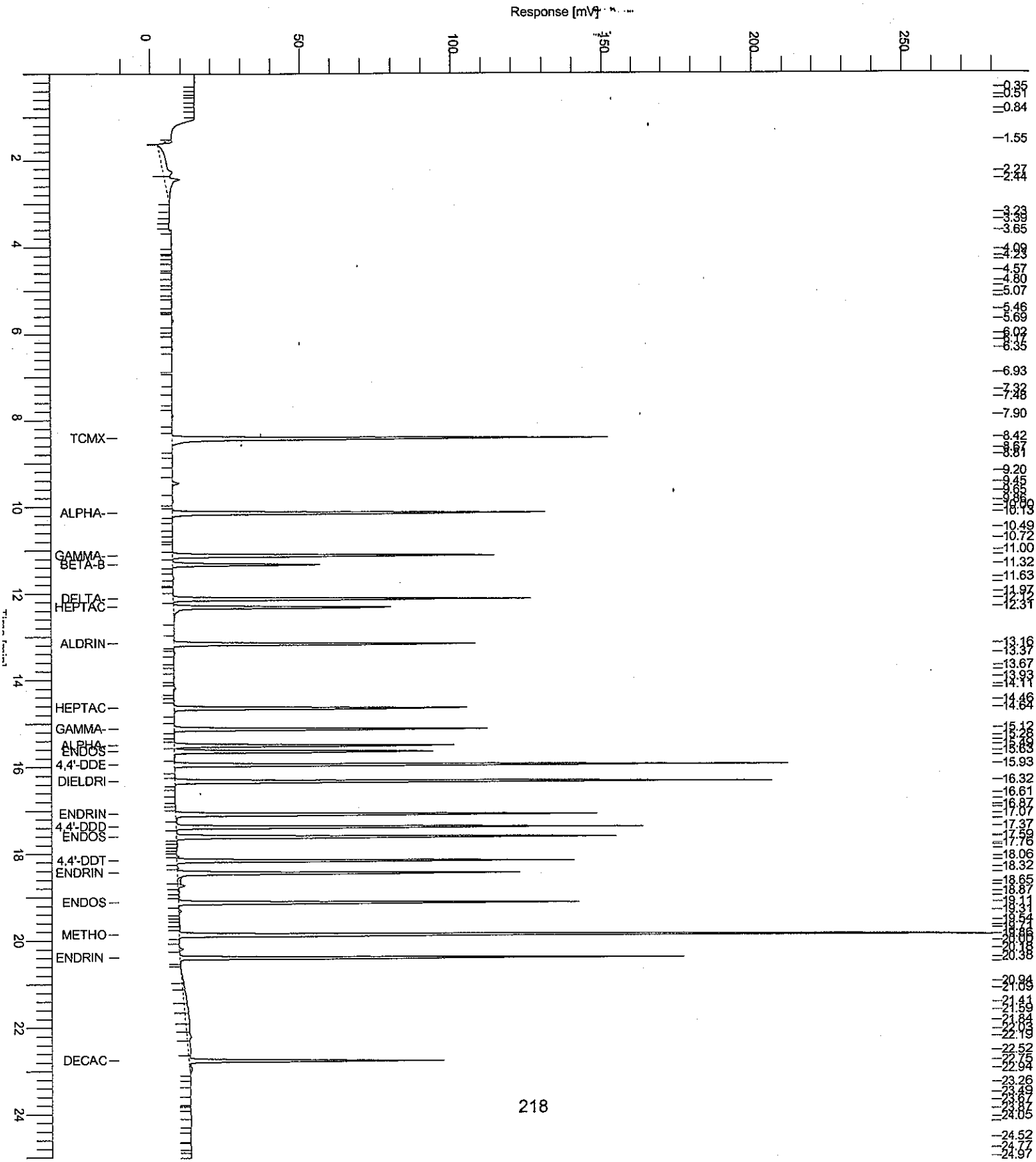
GC23 Rtx-CLPesticides2

ımple Name : ccv,04ws0926,pest_4 Sample #: 20/40 ug/L Page 1 of 1
eName : G:\gc23\CHb\219b034.raw
ıte : 8/9/04 10:29:53 AM
ethod :
Time of Injection: 8/7/04 11:09:33 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -12.19 mV High Point : 280.94 mV
ot Offset: -12.19 mV Plot Scale: 293.1 mV



GC23 Rtx-CLPesticides2

mple Name : ccv,04ws0926,pest_4 Sample #: 20/40 ug/L Page 1 of 1
eName : G:\gc23\CHb\219b034
ite : 8/9/04 10:18:21 AM
ethod : gc23ins Time of Injection: 8/7/04 11:09:33 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -11.46 mV High Point : 280.94 mV
cale Factor: 1.0 Plot Offset: -11.46 mV Plot Scale: 292.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 34

Date : 8/9/04 10:26:48 AM
Data Acquisition Time : 8/7/04 11:09:33 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a034p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.452	417342.34	38.1620	1.000	1	38.16
alpha-BHC	10.096	315602.37	18.8725	1.000	1	18.87
gamma-BHC	10.996	279510.00	18.5608	1.000	1	18.56
beta-BHC	11.252	118771.29	18.3307	1.000	1	18.33
delta-BHC	11.746	272805.61	17.2109	1.000	1	17.21
Heptachlor	12.312	242694.06	18.0085	1.000	1	18.01
Aldrin	13.120	248837.20	18.2882	1.000	1	18.29
Heptachlor epoxide	14.728	224224.52	18.1213	1.000	1	18.12
gamma-Chlordane	15.047	220801.71	17.9334	1.000	1	17.93
alpha-Chlordane	15.384	208950.50	17.6919	1.000	1	17.69
4,4'-DDE	15.578	395267.00	35.7906	1.000	1	35.79
Endosulfan I	15.737	198386.00	17.6500	1.000	1	17.65
Dieldrin	16.348	423698.58	36.0338	1.000	1	36.03
Endrin	16.933	305349.50	32.4754	1.000	1	32.48
4,4'-DDD	17.085	301155.00	35.3249	1.000	1	35.32
Endosulfan II	17.501	340444.00	34.7029	1.000	1	34.70
4,4'-DDT	17.782	274951.00	32.2797	1.000	1	32.28
Endrin aldehyde	18.551	259669.62	32.4618	1.000	1	32.46
Methoxychlor	18.979	585125.39	178.2634	1.000	1	178.26
Endosulfan sulfate	19.638	278551.28	32.5436	1.000	1	32.54
Endrin ketone	20.299	332712.00	34.3891	1.000	1	34.39
Decachlorobiphenyl	22.151	175426.63	30.4854	1.000	1	30.49
		6420275.60	733.5809			733.58

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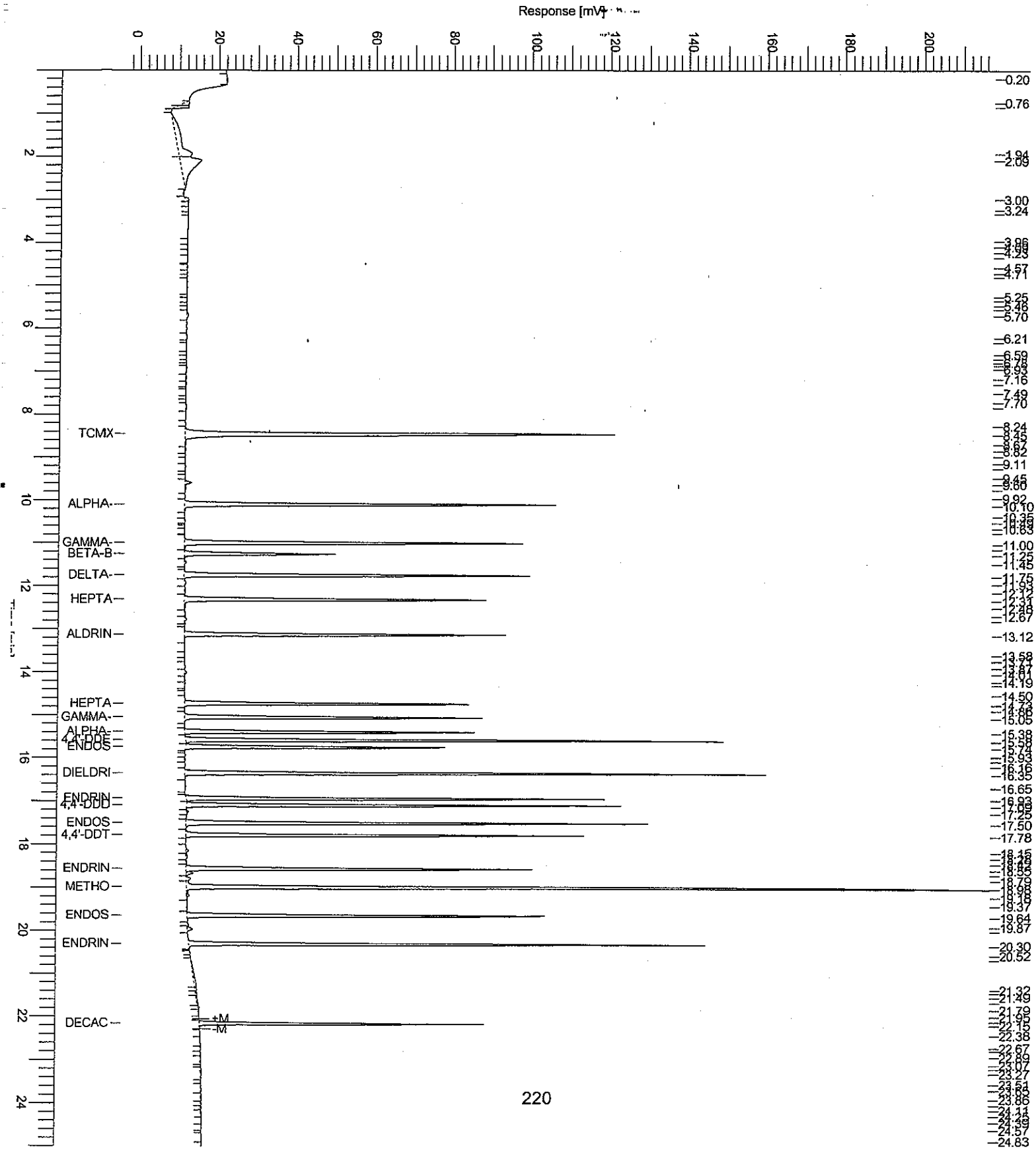
Report stored in ASCII file: G:\gc23\CHA\219a034p.TX0

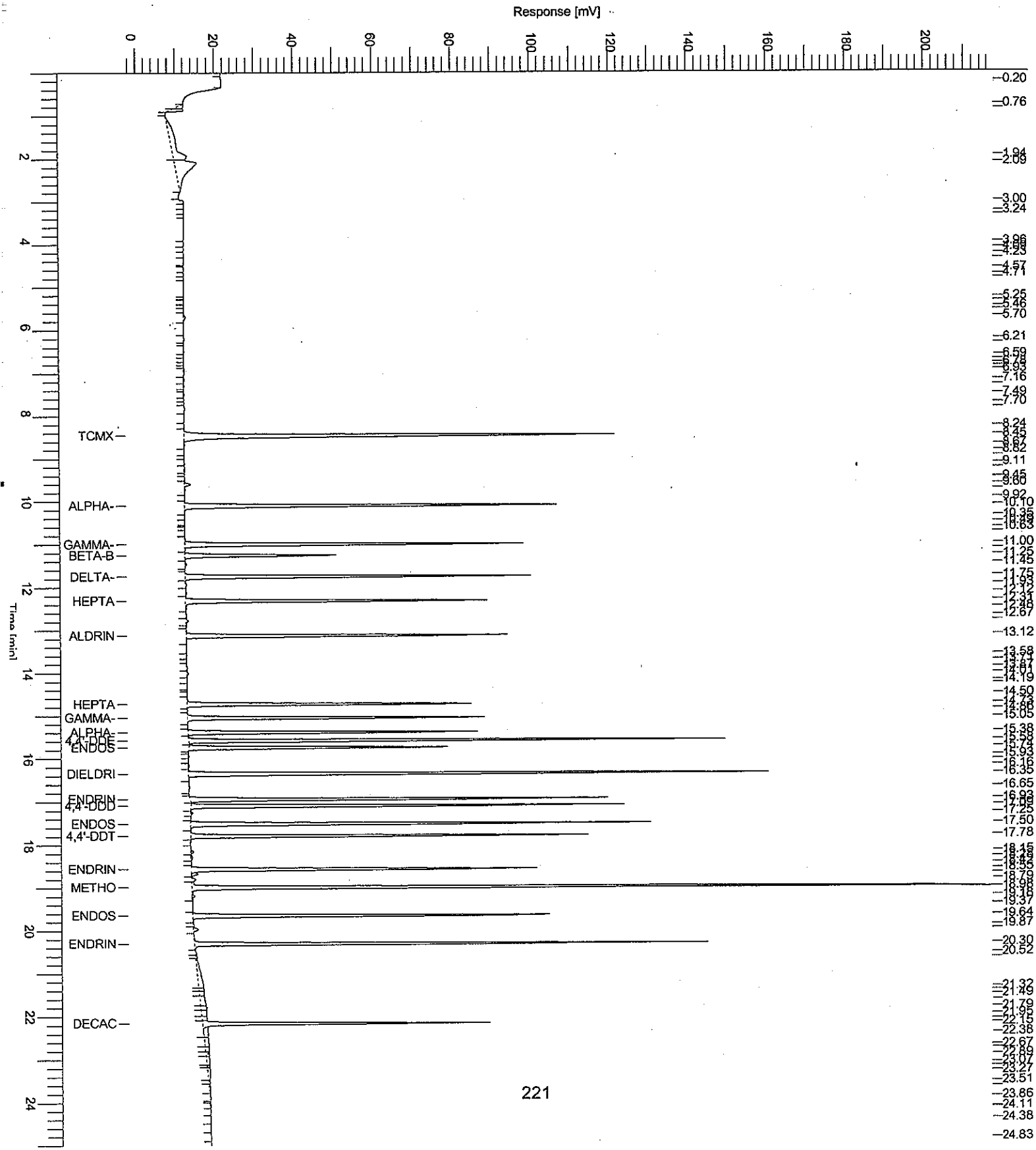
GC23 Rtx-CLPesticides

ample Name : cov,04ws0926,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHa\219a034.raw
ate : 8/9/04 10:26:53 AM
lethod : Time of Injection: 8/7/04 11:09:33 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.45 mV High Point : 217.73 mV
lot Offset: -3.45 mV Plot Scale: 221.2 mV



GC23 Rtx-CLPesticides

mple Name : ccv,04ws0926,pest_4 Sample #: 20/40 ug/L Page 1 of 1
eName : G:\gc23\CHa\219a034.raw
ate : 8/9/04 10:19:09 AM
ethod : gc23ins Time of Injection: 8/7/04 11:09:33 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.89 mV High Point : 217.73 mV
cale Factor: 1.0 Plot Offset: -2.89 mV Plot Scale: 220.6 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804316738050
Calnum : 804316738001
Standards: 04WS1385

Run Name : pest_3
Filename : 219_050
Caldate : 06-AUG-2004

IDF : 1.0
Injected : 07-AUG-2004 18:57
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15953	10.00000	9.539665	pg	-5	15	
gamma-BHC	A	15059	14240	10.00000	9.455795	pg	-5	15	
beta-BHC	A	6479.4	6309.5	10.00000	9.737748	pg	-3	15	
delta-BHC	A	15851	14146	10.00000	8.924231	pg	-11	15	
Heptachlor	A	13477	12273	10.00000	9.107108	pg	-9	15	
Aldrin	A	13606	12874	10.00000	9.461779	pg	-5	15	
Heptachlor epoxide	A	12374	11775	10.00000	9.516526	pg	-5	15	
gamma-Chlordane	A	12312	11870	10.00000	9.641101	pg	-4	15	
alpha-Chlordane	A	11811	11070	10.00000	9.372571	pg	-6	15	
4,4'-DDE	A	11044	10262	20.00000	18.58315	pg	-7	15	
Endosulfan I	A	11240	10534	10.00000	9.372254	pg	-6	15	
Dieldrin	A	11758	10965	20.00000	18.65058	pg	-7	15	
Endrin	A	9402.5	7896.8	20.00000	16.79717	pg	-16	15	c- ***
4,4'-DDD	A	8525.3	8102.2	20.00000	19.00747	pg	-5	15	
Endosulfan II	A	9810.2	9096.6	20.00000	18.54512	pg	-7	15	
4,4'-DDT	A	8517.8	7096.8	20.00000	16.66354	pg	-17	15	c- ***
Endrin aldehyde	A	7999.2	7220.9	20.00000	18.05390	pg	-10	15	rsd ***
Methoxychlor	A	3282.4	2966.6	100.0000	90.38113	pg	-10	15	
Endosulfan sulfate	A	8559.3	7595.9	20.00000	17.74885	pg	-11	15	rsd ***
Endrin ketone	A	9674.9	9078.9	20.00000	18.76782	pg	-6	15	
TCMX	A	10936	10649	20.00000	19.47505	pg	-3	15	
Decachlorobiphenyl	A	5754.4	4998.4	20.00000	17.37223	pg	-13	15	
alpha-BHC	B	18244	19511	10.00000	10.69440	pg	7	15	
gamma-BHC	B	16509	17628	10.00000	10.67816	pg	7	15	
beta-BHC	B	7375.5	8019.3	10.00000	10.87290	pg	9	15	
delta-BHC	B	17657	17760	10.00000	10.05807	pg	1	15	
Heptachlor	B	12899	12358	10.00000	9.580873	pg	-4	15	
Aldrin	B	15312	16407	10.00000	10.71504	pg	7	15	
Heptachlor epoxide	B	14048	15136	10.00000	10.77404	pg	8	15	
gamma-Chlordane	B	14282	15206	10.00000	10.64747	pg	6	15	
alpha-Chlordane	B	13696	14507	10.00000	10.59222	pg	6	15	
4,4'-DDE	B	13193	13967	20.00000	21.17230	pg	6	15	
Endosulfan I	B	12868	13740	10.00000	10.67780	pg	7	15	
Dieldrin	B	13646	14519	20.00000	21.28024	pg	6	15	
Endrin	B	11081	11512	20.00000	20.77745	pg	4	15	
4,4'-DDD	B	10321	10868	20.00000	21.05959	pg	5	15	
Endosulfan II	B	11693	12084	20.00000	20.66997	pg	3	15	
4,4'-DDT	B	9451.4	9656.1	20.00000	20.43309	pg	2	15	
Endrin aldehyde	B	9574.2	9232.9	20.00000	19.28693	pg	-4	15	rsd ***
Methoxychlor	B	3914.9	4104.9	100.0000	104.8534	pg	5	15	
Endosulfan sulfate	B	10710	10386	20.00000	19.39406	pg	-3	15	
Endrin ketone	B	11223	11499	20.00000	20.49154	pg	2	15	
TCMX	B	11938	12994	20.00000	21.77047	pg	9	15	
Decachlorobiphenyl	B	6936.5	6979.2	20.00000	20.12335	pg	1	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1385,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 50

Date : 8/9/04 10:32:17 AM
Data Acquisition Time : 8/7/04 6:57:15 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\219b050p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.435	259887.50	21.7705	1.000	1	21.77
alpha-BHC	10.150	195111.00	10.6944	1.000	1	10.69
gamma-BHC	11.128	176280.61	10.6782	1.000	1	10.68
beta-BHC	11.335	80193.00	10.8729	1.000	1	10.87
delta-BHC	12.132	177597.50	10.0581	1.000	1	10.06
Heptachlor	12.321	123580.00	9.5809	1.000	1	9.58
Aldrin	13.171	164068.00	10.7150	1.000	1	10.72
Heptachlor epoxide	14.651	151355.50	10.7740	1.000	1	10.77
gamma-Chlordane	15.131	152062.00	10.6475	1.000	1	10.65
alpha-Chlordane	15.503	145070.00	10.5922	1.000	1	10.59
Endosulfan I	15.644	137404.00	10.6778	1.000	1	10.68
4,4'-DDE	15.949	279331.00	21.1723	1.000	1	21.17
Dieldrin	16.332	290383.46	21.2802	1.000	1	21.28
Endrin	17.087	230235.18	20.7774	1.000	1	20.78
4,4'-DDD	17.382	217352.41	21.0596	1.000	1	21.06
Endosulfan II	17.605	241687.00	20.6700	1.000	1	20.67
4,4'-DDT	18.163	193121.54	20.4331	1.000	1	20.43
Endrin aldehyde	18.447	184657.17	19.2869	1.000	1	19.29
Endosulfan sulfate	19.129	207719.96	19.3941	1.000	1	19.39
Methoxychlor	19.870	410493.12	104.8534	1.000	1	104.85
Endrin ketone	20.397	229976.63	20.4915	1.000	1	20.49
Decachlorobiphenyl	22.755	139584.87	20.1234	1.000	1	20.12
		4387151.46	436.6033			436.60

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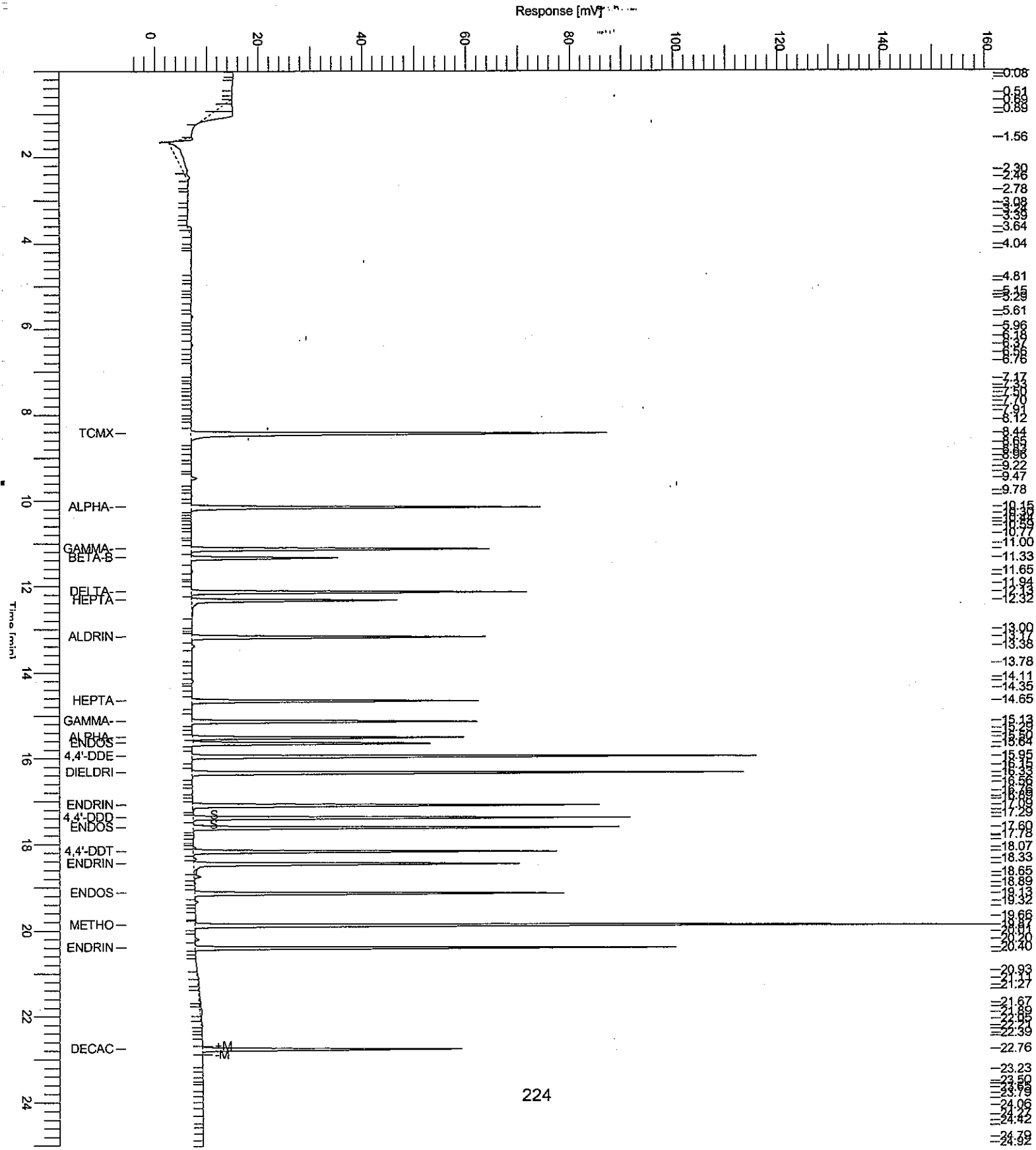
Report stored in ASCII file: G:\gc23\CHB\219b050p.TX0

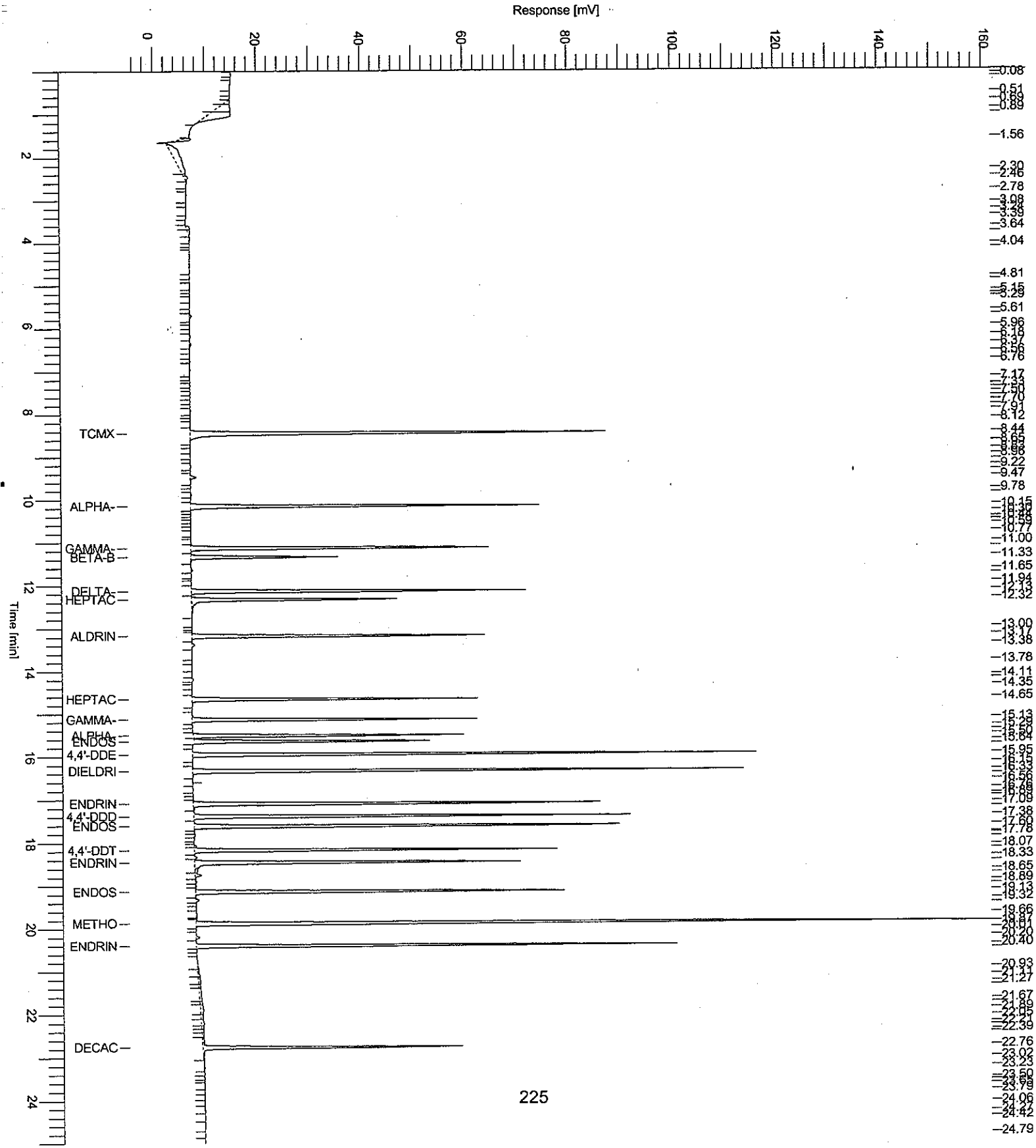
GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1385,pest_3 Sample #: 10/20 ug/L Page 1 of 1
leName : G:\gc23\CHb\219b050.raw
ate : 8/9/04 10:32:22 AM
ethod : Time of Injection: 8/7/04 6:57:15 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -5.70 mV High Point : 161.88 mV
ot Offset: -5.70 mV Plot Scale: 167.6 mV



GC23 Rtx-CLPesticides2

ımple Name : ccv,04ws1385,pest_3 Sample #: 10/20 ug/L Page 1 of 1
eName : G:\gc23\CHb\219b050
ate : 8/9/04 10:18:48 AM
ethod : gc23ins Time of Injection: 8/7/04 6:57:15 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -5.28 mV High Point : 161.88 mV
cale Factor: 1.0 Plot Offset: -5.28 mV Plot Scale: 167.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1385,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 50

Date : 8/9/04 10:28:56 AM
Data Acquisition Time : 8/7/04 6:57:15 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\219a050p.rst
Sequence File : G:\gc23\Files\219.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.469	212980.40	19.4751	1.000	1	19.48
alpha-BHC	10.112	159530.93	9.5397	1.000	1	9.54
gamma-BHC	11.012	142396.66	9.4558	1.000	1	9.46
beta-BHC	11.268	63094.50	9.7377	1.000	1	9.74
delta-BHC	11.762	141455.98	8.9242	1.000	1	8.92
Heptachlor	12.327	122733.14	9.1071	1.000	1	9.11
Aldrin	13.136	128741.00	9.4618	1.000	1	9.46
Heptachlor epoxide	14.744	117753.00	9.5165	1.000	1	9.52
gamma-Chlordane	15.063	118704.00	9.6411	1.000	1	9.64
alpha-Chlordane	15.399	110695.00	9.3726	1.000	1	9.37
4,4'-DDE	15.589	205230.00	18.5832	1.000	1	18.58
Endosulfan I	15.753	105344.00	9.3723	1.000	1	9.37
Dieldrin	16.364	219300.09	18.6506	1.000	1	18.65
Endrin	16.949	157935.00	16.7972	1.000	1	16.80
4,4'-DDD	17.101	162044.00	19.0075	1.000	1	19.01
Endosulfan II	17.517	181932.00	18.5451	1.000	1	18.55
4,4'-DDT	17.797	141936.09	16.6635	1.000	1	16.66
Endrin aldehyde	18.567	144417.57	18.0539	1.000	1	18.05
Methoxychlor	18.988	296663.74	90.3811	1.000	1	90.38
Endosulfan sulfate	19.653	151918.32	17.7488	1.000	1	17.75
Endrin ketone	20.313	181577.51	18.7678	1.000	1	18.77
Decachlorobiphenyl	22.165	99967.57	17.3722	1.000	1	17.37
		3366350.50	384.1748			384.17

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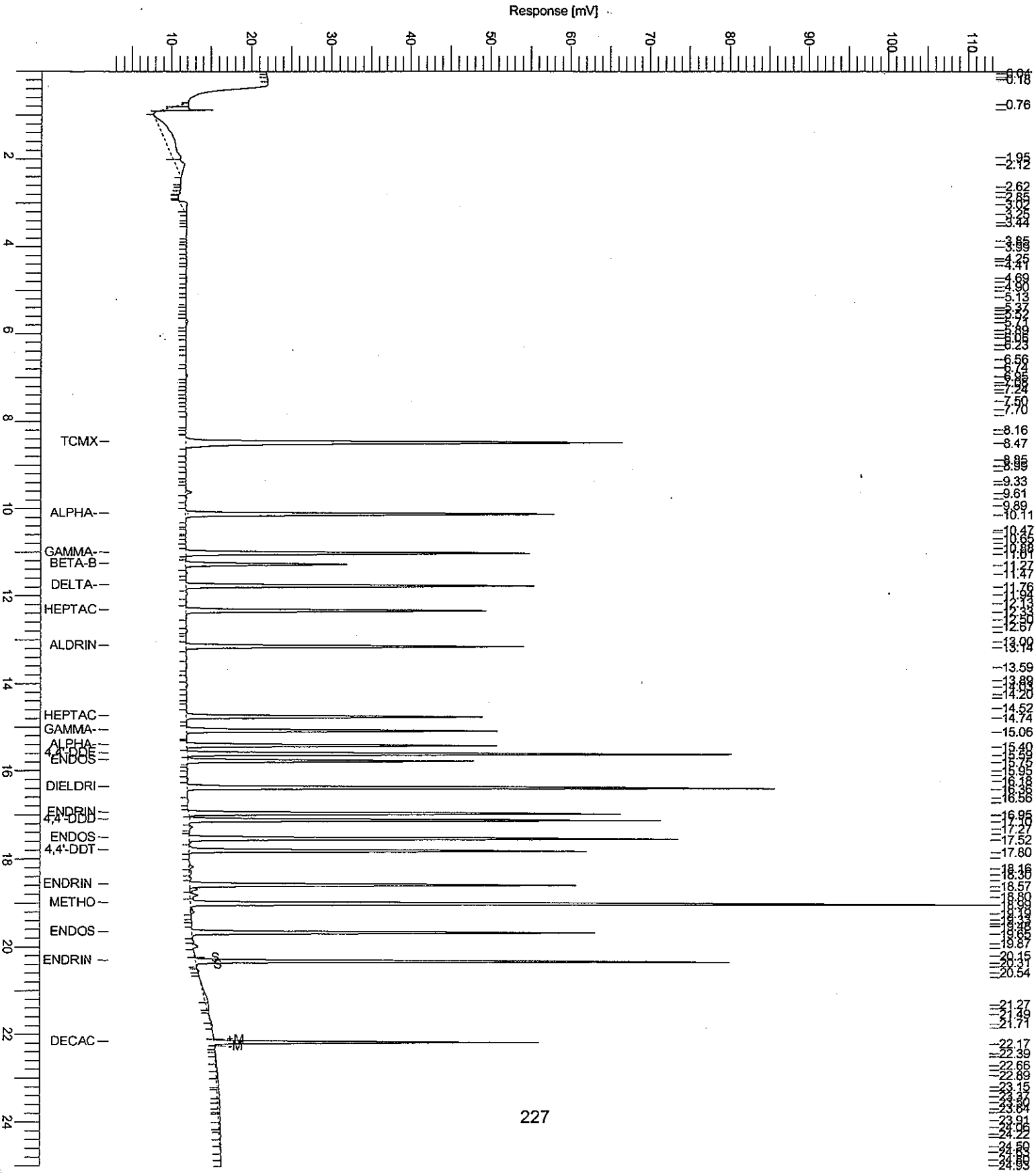
Report stored in ASCII file: G:\gc23\CHA\219a050p.TX0

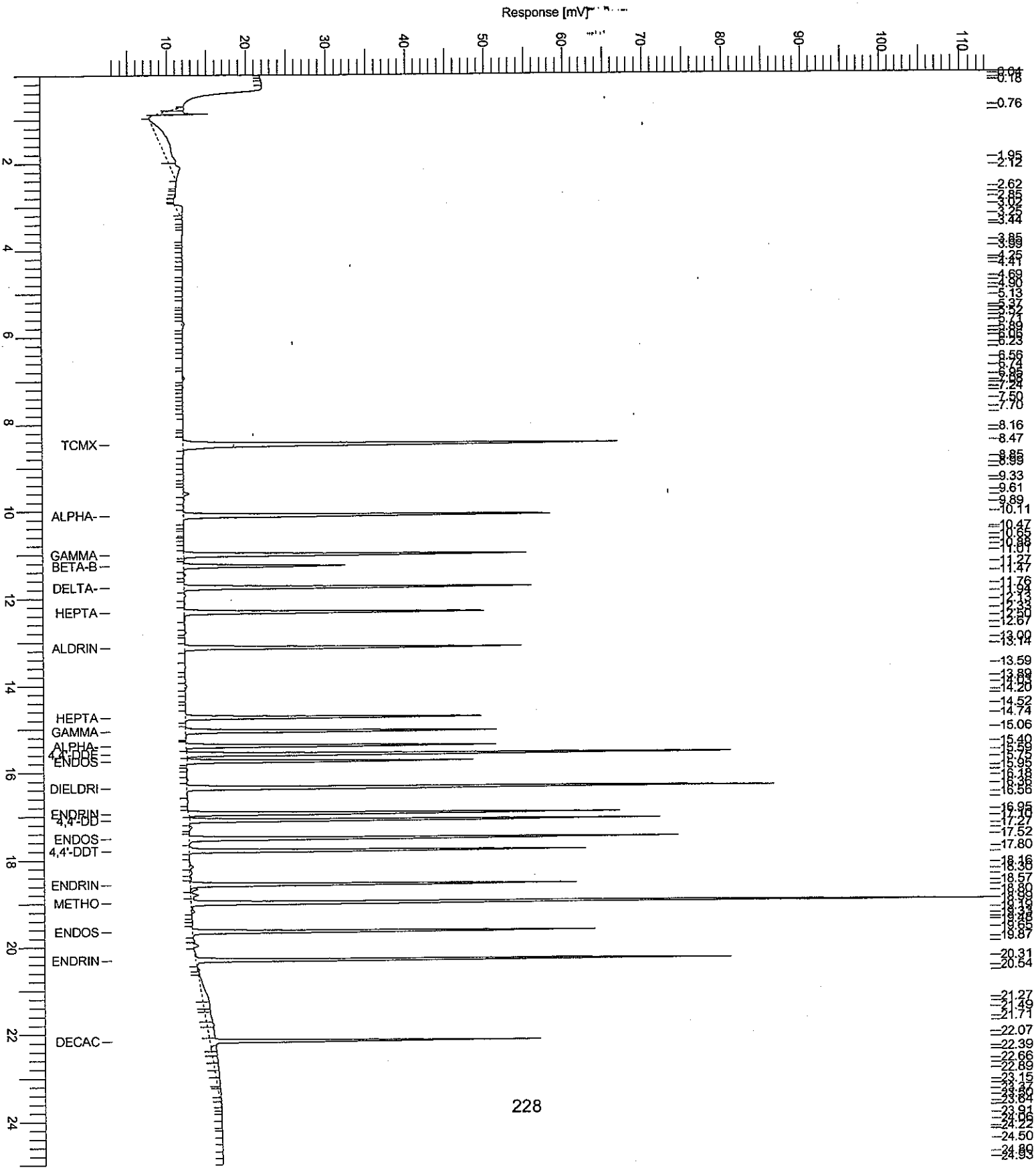
GC23 Rtx-CLPesticides

ımple Name : ccv,04ws1385,pest_3 Sample #: 10/20 ug/L Page 1 of 1
eName : G:\gc23\CHa\219a050.raw
ıte : 8/9/04 10:29:00 AM
ethod : Time of Injection: 8/7/04 6:57:15 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.17 mV High Point : 113.45 mV
ot Offset: 2.17 mV Plot Scale: 111.3 mV



GC23 Rtx-CLPesticides

ımple Name : ccv,04ws1385,pest_3 Sample #: 10/20 ug/L Page 1 of 1
eName : G:\gc23\CHa\219a050.raw
ıte : 8/9/04 10:19:36 AM
ethod : gc23ins Time of Injection: 8/7/04 6:57:15 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.45 mV High Point : 113.45 mV
cale Factor: 1.0 Plot Offset: 2.45 mV Plot Scale: 111.0 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804320349009
Calnum : 804316738001
Standards: 04WS0926

Run Name : pest_4
Filename : 222_009
Caldate : 06-AUG-2004

IDF : 1.0
Injected : 09-AUG-2004 13:22
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	14457	20.00000	17.29059	pg	-14	15	
gamma-BHC	A	15059	12846	20.00000	17.06024	pg	-15	15	
beta-BHC	A	6479.4	5565.0	20.00000	17.17767	pg	-14	15	
delta-BHC	A	15851	12914	20.00000	16.29467	pg	-19	15	c- ***
Heptachlor	A	13477	10927	20.00000	16.21629	pg	-19	15	c- ***
Aldrin	A	13606	11512	20.00000	16.92097	pg	-15	15	
Heptachlor epoxide	A	12374	10455	20.00000	16.89953	pg	-16	15	c- ***
gamma-Chlordane	A	12312	10393	20.00000	16.88273	pg	-16	15	c- ***
alpha-Chlordane	A	11811	9873.1	20.00000	16.71915	pg	-16	15	c- ***
4,4'-DDE	A	11044	9368.6	40.00000	33.93221	pg	-15	15	
Endosulfan I	A	11240	9313.4	20.00000	16.57195	pg	-17	15	c- ***
Dieldrin	A	11758	9804.1	40.00000	33.35211	pg	-17	15	c- ***
Endrin	A	9402.5	6193.0	40.00000	26.34626	pg	-34	15	c- ***
4,4'-DDD	A	8525.3	7042.6	40.00000	33.04314	pg	-17	15	c- ***
Endosulfan II	A	9810.2	8181.8	40.00000	33.36016	pg	-17	15	c- ***
4,4'-DDT	A	8517.8	6423.1	40.00000	30.16331	pg	-25	15	c- ***
Endrin aldehyde	A	7999.2	6315.1	40.00000	31.57830	pg	-21	15	c- rsd ***
Methoxychlor	A	3282.4	2460.0	200.0000	149.8927	pg	-25	15	c- ***
Endosulfan sulfate	A	8559.3	6683.6	40.00000	31.23422	pg	-22	15	c- rsd ***
Endrin ketone	A	9674.9	8154.2	40.00000	33.71257	pg	-16	15	c- ***
TCMX	A	10936	9508.1	40.00000	34.77701	pg	-13	15	
Decachlorobiphenyl	A	5754.4	4176.3	40.00000	29.03004	pg	-27	15	c-
alpha-BHC	B	18244	18437	20.00000	20.21122	pg	1	15	
gamma-BHC	B	16509	16410	20.00000	19.88054	pg	-1	15	
beta-BHC	B	7375.5	7279.8	20.00000	19.74038	pg	-1	15	
delta-BHC	B	17657	16678	20.00000	18.89038	pg	-6	15	
Heptachlor	B	12899	11509	20.00000	17.84533	pg	-11	15	
Aldrin	B	15312	15231	20.00000	19.89370	pg	-1	15	
Heptachlor epoxide	B	14048	13643	20.00000	19.42290	pg	-3	15	
gamma-Chlordane	B	14282	13966	20.00000	19.55872	pg	-2	15	
alpha-Chlordane	B	13696	13256	20.00000	19.35754	pg	-3	15	
4,4'-DDE	B	13193	13070	40.00000	39.62699	pg	-1	15	
Endosulfan I	B	12868	12431	20.00000	19.32065	pg	-3	15	
Dieldrin	B	13646	13116	40.00000	38.44774	pg	-4	15	
Endrin	B	11081	9064.1	40.00000	32.71930	pg	-18	15	c- ***
4,4'-DDD	B	10321	9599.3	40.00000	37.20371	pg	-7	15	
Endosulfan II	B	11693	10945	40.00000	37.44086	pg	-6	15	
4,4'-DDT	B	9451.4	8362.0	40.00000	35.38921	pg	-12	15	
Endrin aldehyde	B	9574.2	8359.8	40.00000	34.92641	pg	-13	15	rsd ***
Methoxychlor	B	3914.9	3396.2	200.0000	173.4976	pg	-13	15	
Endosulfan sulfate	B	10710	9275.4	40.00000	34.64024	pg	-13	15	
Endrin ketone	B	11223	10366	40.00000	36.94546	pg	-8	15	
TCMX	B	11938	12131	40.00000	40.64755	pg	2	15	
Decachlorobiphenyl	B	6936.5	6117.5	40.00000	35.27728	pg	-12	15	
Average EPA 8081A	A		(count=22)				19	15	ac
Average EPA 8081A	B		(count=22)				6	15	

-=low bias ac=average CCV drift out c=CCV rsd=ICAL %RSD failure

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 8/9/04 4:05:53 PM
Data Acquisition Time : 8/9/04 1:22:16 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\222b009.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL B METH. 8081

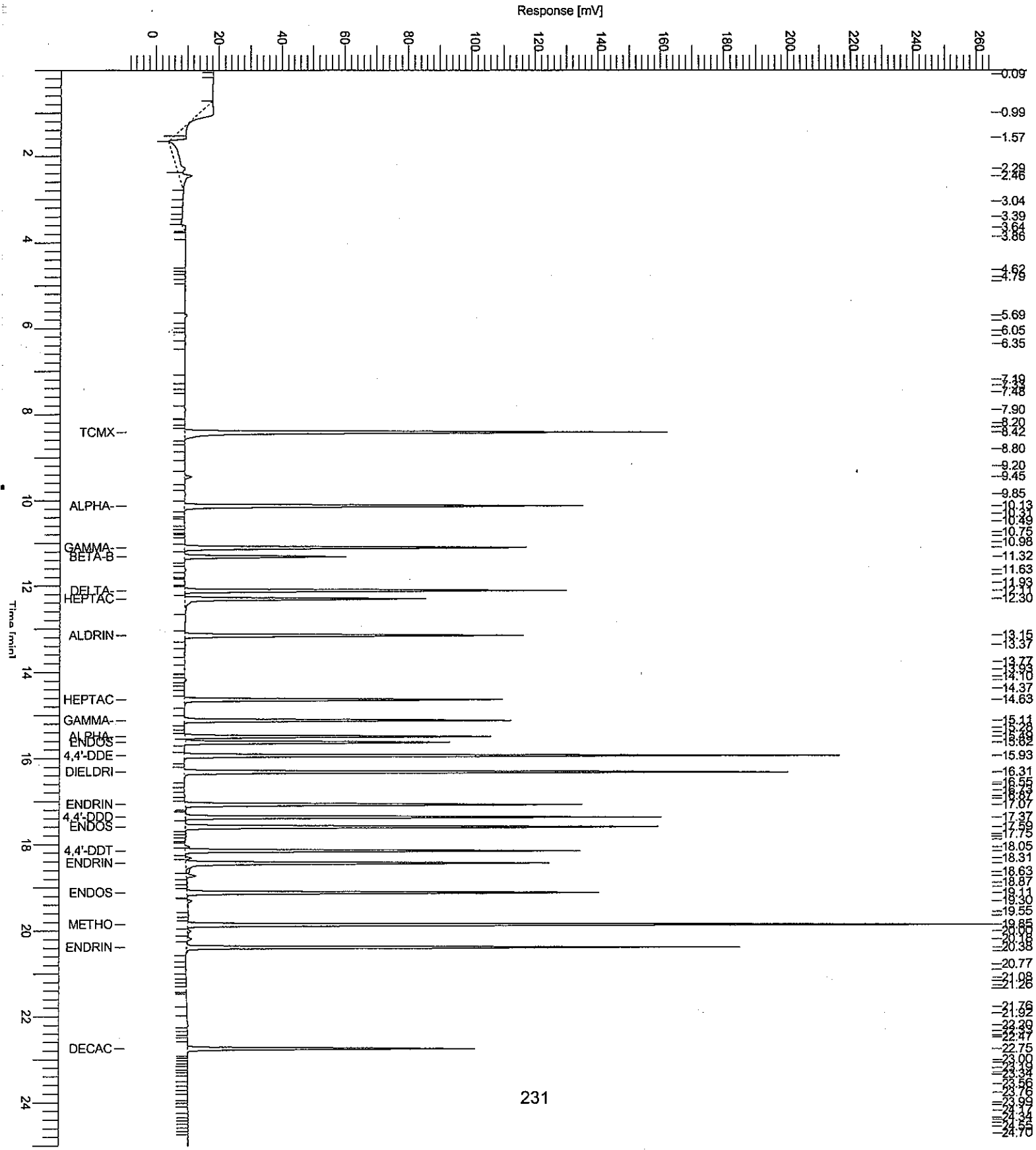
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.417	485234.87	40.6475	1.000	1	40.65
alpha-BHC	10.132	368738.00	20.2112	1.000	1	20.21
gamma-BHC	11.105	328198.36	19.8805	1.000	1	19.88
beta-BHC	11.317	145595.00	19.7404	1.000	1	19.74
delta-BHC	12.115	333551.50	18.8904	1.000	1	18.89
Heptachlor	12.303	230180.00	17.8453	1.000	1	17.85
Aldrin	13.153	304611.00	19.8937	1.000	1	19.89
Heptachlor epoxide	14.634	272856.00	19.4229	1.000	1	19.42
gamma-Chlordane	15.114	279328.00	19.5587	1.000	1	19.56
alpha-Chlordane	15.486	265119.00	19.3575	1.000	1	19.36
Endosulfan I	15.622	248622.00	19.3207	1.000	1	19.32
4,4'-DDE	15.932	522808.00	39.6270	1.000	1	39.63
Dieldrin	16.314	524645.74	38.4477	1.000	1	38.45
Endrin	17.071	362563.00	32.7193	1.000	1	32.72
4,4'-DDD	17.365	383973.00	37.2037	1.000	1	37.20
Endosulfan II	17.588	437783.51	37.4409	1.000	1	37.44
4,4'-DDT	18.147	334478.09	35.3892	1.000	1	35.39
Endrin aldehyde	18.431	334392.79	34.9264	1.000	1	34.93
Endosulfan sulfate	19.113	371014.00	34.6402	1.000	1	34.64
Methoxychlor	19.854	679230.37	173.4976	1.000	1	173.50
Endrin ketone	20.383	414639.00	36.9455	1.000	1	36.95
Decachlorobiphenyl	22.746	244699.50	35.2773	1.000	1	35.28
		7872260.73	770.8837			770.88

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\222b009.TX0

GC23 Rtx-CLPesticides2

ample Name : ccv,04ws0926,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHB\222b009
ate : 8/9/04 4:05:56 PM
lethod : gc23ins Time of Injection: 8/9/04 1:22:16 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -9.07 mV High Point : 264.90 mV
cale Factor: 1.0 Plot Offset: -9.07 mV Plot Scale: 274.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 8/9/04 4:06:20 PM
Data Acquisition Time : 8/9/04 1:22:16 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\222a009.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL A METH. 8081

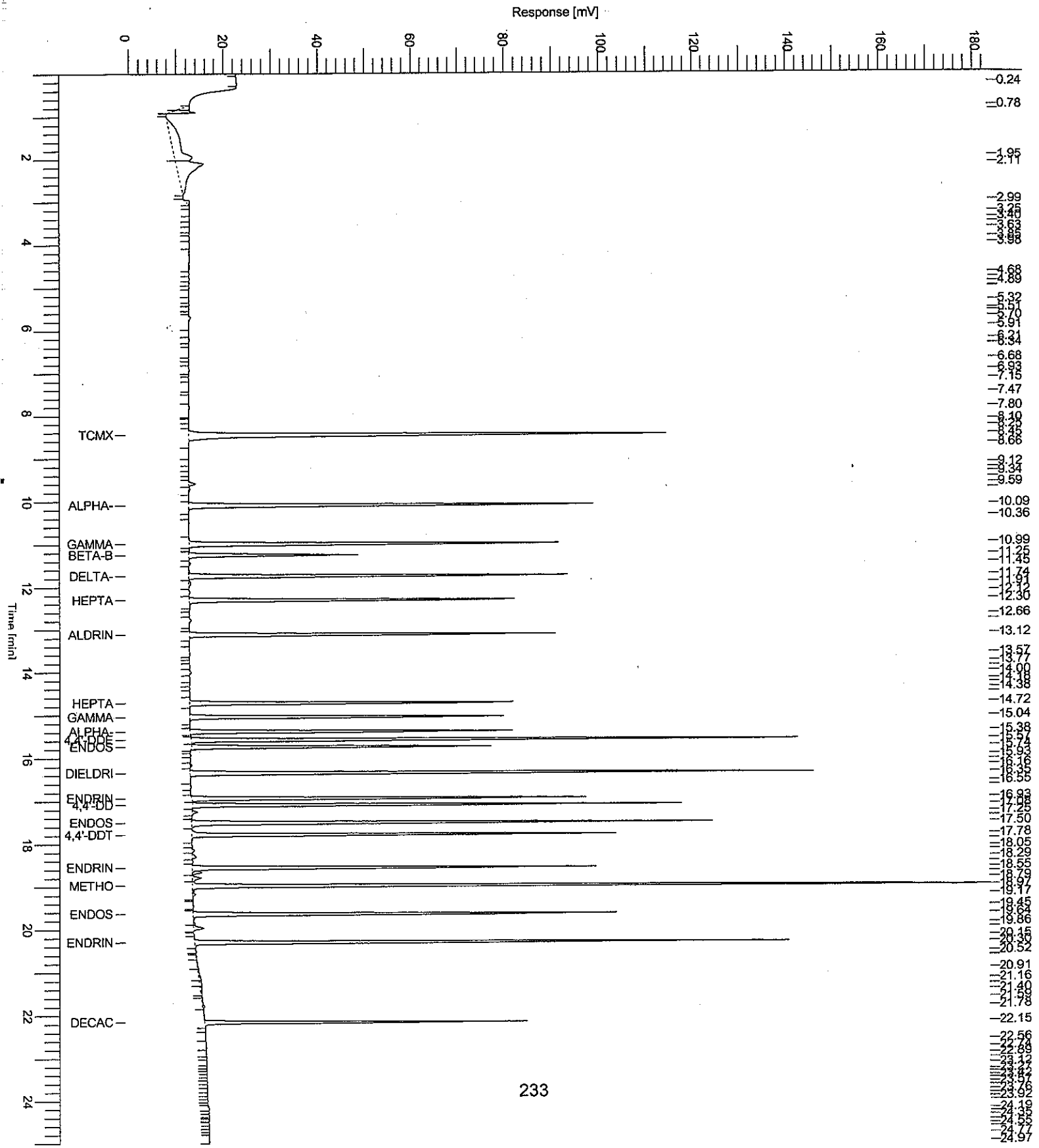
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.449	380323.58	34.7770	1.000	1	34.78
alpha-BHC	10.089	289149.00	17.2906	1.000	1	17.29
gamma-BHC	10.989	256913.50	17.0602	1.000	1	17.06
beta-BHC	11.249	111300.53	17.1777	1.000	1	17.18
delta-BHC	11.739	258283.17	16.2947	1.000	1	16.29
Heptachlor	12.305	218541.00	16.2163	1.000	1	16.22
Aldrin	13.117	230234.00	16.9210	1.000	1	16.92
Heptachlor epoxide	14.721	209106.85	16.8995	1.000	1	16.90
gamma-Chlordane	15.044	207865.00	16.8827	1.000	1	16.88
alpha-Chlordane	15.382	197462.00	16.7192	1.000	1	16.72
4,4'-DDE	15.572	374743.00	33.9322	1.000	1	33.93
Endosulfan I	15.735	186268.50	16.5720	1.000	1	16.57
Dieldrin	16.346	392165.82	33.3521	1.000	1	33.35
Endrin	16.931	247720.00	26.3463	1.000	1	26.35
4,4'-DDD	17.084	281702.00	33.0431	1.000	1	33.04
Endosulfan II	17.499	327271.00	33.3602	1.000	1	33.36
4,4'-DDT	17.780	256924.00	30.1633	1.000	1	30.16
Endrin aldehyde	18.550	252602.63	31.5783	1.000	1	31.58
Methoxychlor	18.972	492002.29	149.8927	1.000	1	149.89
Endosulfan sulfate	19.636	267344.13	31.2342	1.000	1	31.23
Endrin ketone	20.298	326167.04	33.7126	1.000	1	33.71
Decachlorobiphenyl	22.150	167051.83	29.0300	1.000	1	29.03
		5931140.87	668.4558			668.46

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\222a009.TX0

GC23 Rtx-CLPesticides

ample Name : ccv,04ws0926,pest_4 Sample #: 20/40 ug/L Page 1 of 1
leName : G:\gc23\CHa\222a009.raw
ate : 8/9/04 4:06:23 PM
ethod : gc23ins Time of Injection: 8/9/04 1:22:16 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.85 mV High Point : 183.20 mV
cale Factor: 1.0 Plot Offset: -0.85 mV Plot Scale: 184.1 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804320349023
Calnum : 804316738001
Standards: 04WS1385

Run Name : ccv
Filename : 222_023
Caldate : 06-AUG-2004

IDF : 1.0
Injected : 09-AUG-2004 22:54
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15610	10.00000	9.334381	pg	-7	15	
gamma-BHC	A	15059	13996	10.00000	9.293923	pg	-7	15	
beta-BHC	A	6479.4	6119.4	10.00000	9.444355	pg	-6	15	
delta-BHC	A	15851	13706	10.00000	8.647081	pg	-14	15	
Heptachlor	A	13477	12101	10.00000	8.978875	pg	-10	15	
Aldrin	A	13606	12523	10.00000	9.203371	pg	-8	15	
Heptachlor epoxide	A	12374	11430	10.00000	9.237708	pg	-8	15	
gamma-Chlordane	A	12312	11248	10.00000	9.135527	pg	-9	15	
alpha-Chlordane	A	11811	10782	10.00000	9.128721	pg	-9	15	
4,4'-DDE	A	11044	9914.5	20.00000	17.95475	pg	-10	15	
Endosulfan I	A	11240	10218	10.00000	9.090359	pg	-9	15	
Dieldrin	A	11758	10597	20.00000	18.02523	pg	-10	15	
Endrin	A	9402.5	7722.6	20.00000	16.42679	pg	-18	15	c- ***
4,4'-DDD	A	8525.3	7781.0	20.00000	18.25395	pg	-9	15	
Endosulfan II	A	9810.2	8722.5	20.00000	17.78245	pg	-11	15	
4,4'-DDT	A	8517.8	6909.1	20.00000	16.22280	pg	-19	15	c- ***
Endrin aldehyde	A	7999.2	6901.7	20.00000	17.25599	pg	-14	15	rsd ***
Methoxychlor	A	3282.4	2846.7	100.0000	86.72816	pg	-13	15	
Endosulfan sulfate	A	8559.3	7333.4	20.00000	17.13536	pg	-14	15	rsd ***
Endrin ketone	A	9674.9	8759.0	20.00000	18.10652	pg	-9	15	
TCMX	A	10936	10389	20.00000	18.99997	pg	-5	15	
Decachlorobiphenyl	A	5754.4	4848.7	20.00000	16.85186	pg	-16	15	c-
alpha-BHC	B	18244	21113	10.00000	11.57235	pg	16	15	c+ ***
gamma-BHC	B	16509	19089	10.00000	11.56328	pg	16	15	c+ ***
beta-BHC	B	7375.5	8633.6	10.00000	11.70580	pg	17	15	c+ ***
delta-BHC	B	17657	19239	10.00000	10.89580	pg	9	15	
Heptachlor	B	12899	14023	10.00000	10.87202	pg	9	15	
Aldrin	B	15312	17676	10.00000	11.54425	pg	15	15	
Heptachlor epoxide	B	14048	16250	10.00000	11.56717	pg	16	15	c+ ***
gamma-Chlordane	B	14282	16352	10.00000	11.44952	pg	14	15	
alpha-Chlordane	B	13696	15601	10.00000	11.39092	pg	14	15	
4,4'-DDE	B	13193	15043	20.00000	22.80340	pg	14	15	
Endosulfan I	B	12868	14737	10.00000	11.45203	pg	15	15	
Dieldrin	B	13646	15470	20.00000	22.67330	pg	13	15	
Endrin	B	11081	11900	20.00000	21.47901	pg	7	15	
4,4'-DDD	B	10321	11740	20.00000	22.75058	pg	14	15	
Endosulfan II	B	11693	12869	20.00000	22.01184	pg	10	15	
4,4'-DDT	B	9451.4	10052	20.00000	21.26996	pg	6	15	
Endrin aldehyde	B	9574.2	10135	20.00000	21.17124	pg	6	15	rsd ***
Methoxychlor	B	3914.9	4324.4	100.0000	110.4584	pg	10	15	
Endosulfan sulfate	B	10710	11049	20.00000	20.63186	pg	3	15	
Endrin ketone	B	11223	12311	20.00000	21.93814	pg	10	15	
TCMX	B	11938	13976	20.00000	23.41451	pg	17	15	c+
Decachlorobiphenyl	B	6936.5	7356.1	20.00000	21.20986	pg	6	15	
Average EPA 8081A	A		(count=22)				11	15	
Average EPA 8081A	B		(count=22)				12	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1385,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 8/10/04 10:18:21 AM
Data Acquisition Time : 8/9/04 10:54:23 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\222b023.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.419	279513.52	23.4145	1.000	1	23.41
alpha-BHC	10.132	211128.50	11.5723	1.000	1	11.57
gamma-BHC	11.105	190892.59	11.5633	1.000	1	11.56
beta-BHC	11.317	86336.00	11.7058	1.000	1	11.71
delta-BHC	12.114	192389.50	10.8958	1.000	1	10.90
Heptachlor	12.302	140234.00	10.8720	1.000	1	10.87
Aldrin	13.151	176764.87	11.5443	1.000	1	11.54
Heptachlor epoxide	14.632	162497.50	11.5672	1.000	1	11.57
gamma-Chlordane	15.111	163516.50	11.4495	1.000	1	11.45
alpha-Chlordane	15.483	156009.00	11.3909	1.000	1	11.39
Endosulfan I	15.619	147367.00	11.4520	1.000	1	11.45
4,4'-DDE	15.928	300850.50	22.8034	1.000	1	22.80
Dieldrin	16.306	309392.70	22.6733	1.000	1	22.67
Endrin	17.067	238009.14	21.4790	1.000	1	21.48
4,4'-DDD	17.356	234804.76	22.7506	1.000	1	22.75
Endosulfan II	17.584	257377.04	22.0118	1.000	1	22.01
4,4'-DDT	18.136	201031.19	21.2700	1.000	1	21.27
Endrin aldehyde	18.421	202697.94	21.1712	1.000	1	21.17
Endosulfan sulfate	19.102	220977.37	20.6319	1.000	1	20.63
Methoxychlor	19.849	432436.55	110.4584	1.000	1	110.46
Endrin ketone	20.378	246211.80	21.9381	1.000	1	21.94
Decachlorobiphenyl	22.733	147121.37	21.2099	1.000	1	21.21
		4697559.32	465.8253			465.83

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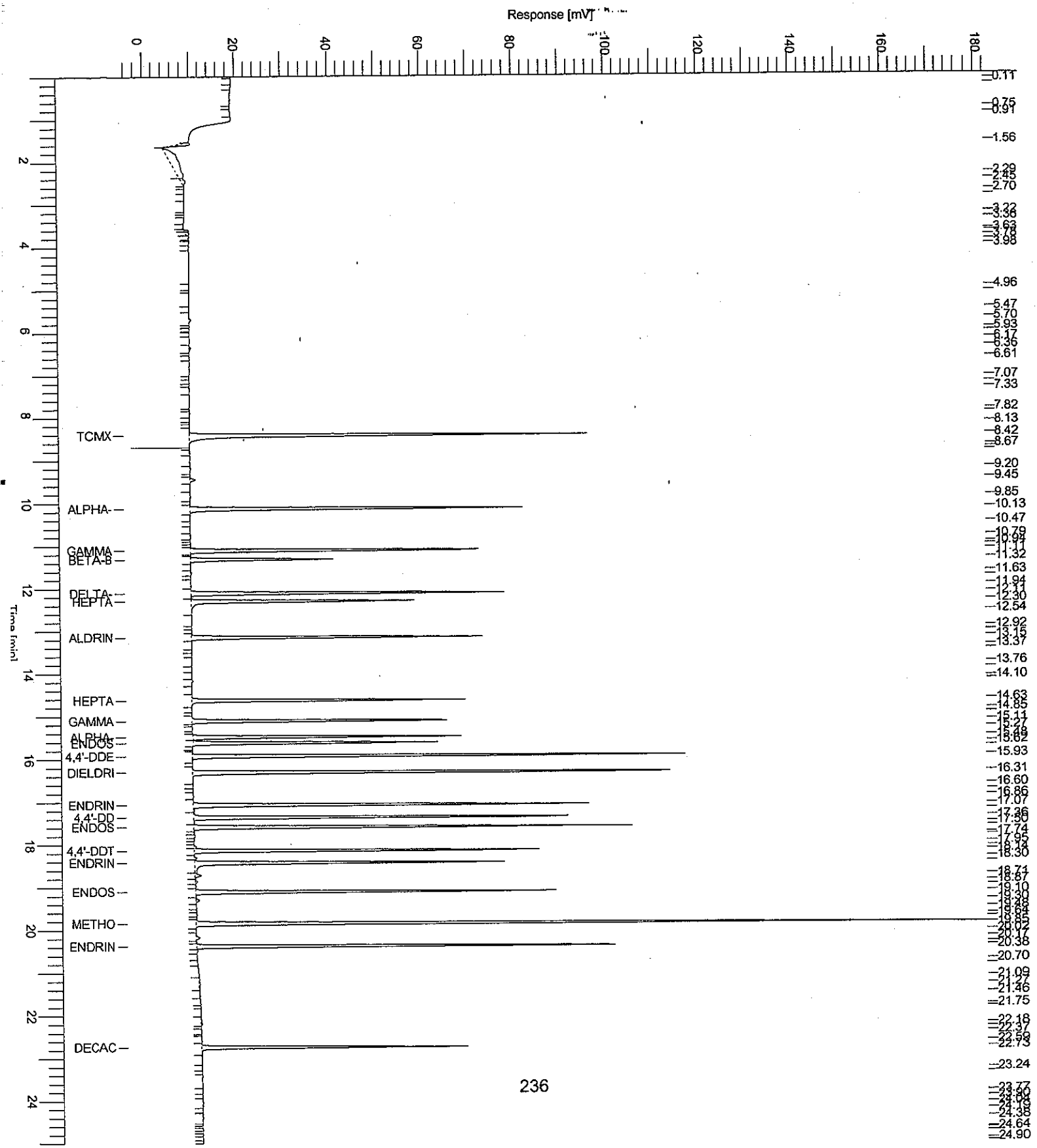
Report stored in ASCII file: G:\gc23\CHB\222b023.TX0

GC23 Rtx-CLPesticides2

ımple Name : x,ccv,04ws1385,pest_3 Sample #: 10/20ug/L Page 1 of 1
eName : G:\gc23\CHB\222b023
ıte : 8/10/04 10: 18:24 AM
ethod : gc23ins Time of Injection: 8/9/04 10:54:23 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -4.36 mV High Point : 182.28 mV
cale Factor: 1.0 Plot Offset: -4.36 mV Plot Scale: 186.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1385,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 8/10/04 10:27:29 AM
Data Acquisition Time : 8/9/04 10:54:23 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\222a023p.rst
Sequence File : G:\gc23\Files\222.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.450	207784.84	19.0000	1.000	1	19.00
alpha-BHC	10.089	156098.00	9.3344	1.000	1	9.33
gamma-BHC	10.989	139959.00	9.2939	1.000	1	9.29
beta-BHC	11.249	61193.50	9.4444	1.000	1	9.44
delta-BHC	11.738	137062.94	8.6471	1.000	1	8.65
Heptachlor	12.304	121005.00	8.9789	1.000	1	8.98
Aldrin	13.116	125225.00	9.2034	1.000	1	9.20
Heptachlor epoxide	14.720	114303.04	9.2377	1.000	1	9.24
gamma-Chlordane	15.038	112479.22	9.1355	1.000	1	9.14
alpha-Chlordane	15.380	107815.00	9.1287	1.000	1	9.13
4,4'-DDE	15.569	198290.00	17.9548	1.000	1	17.95
Endosulfan I	15.733	102175.50	9.0904	1.000	1	9.09
Dieldrin	16.339	211947.00	18.0252	1.000	1	18.03
Endrin	16.928	154452.50	16.4268	1.000	1	16.43
4,4'-DDD	17.081	155620.00	18.2539	1.000	1	18.25
Endosulfan II	17.496	174450.00	17.7824	1.000	1	17.78
4,4'-DDT	17.772	138182.00	16.2228	1.000	1	16.22
Endrin aldehyde	18.546	138034.89	17.2560	1.000	1	17.26
Methoxychlor	18.968	284673.34	86.7282	1.000	1	86.73
Endosulfan sulfate	19.633	146667.25	17.1354	1.000	1	17.14
Endrin ketone	20.294	175179.44	18.1065	1.000	1	18.11
Decachlorobiphenyl	22.148	96973.15	16.8519	1.000	1	16.85
		3259570.62	371.2381			371.24

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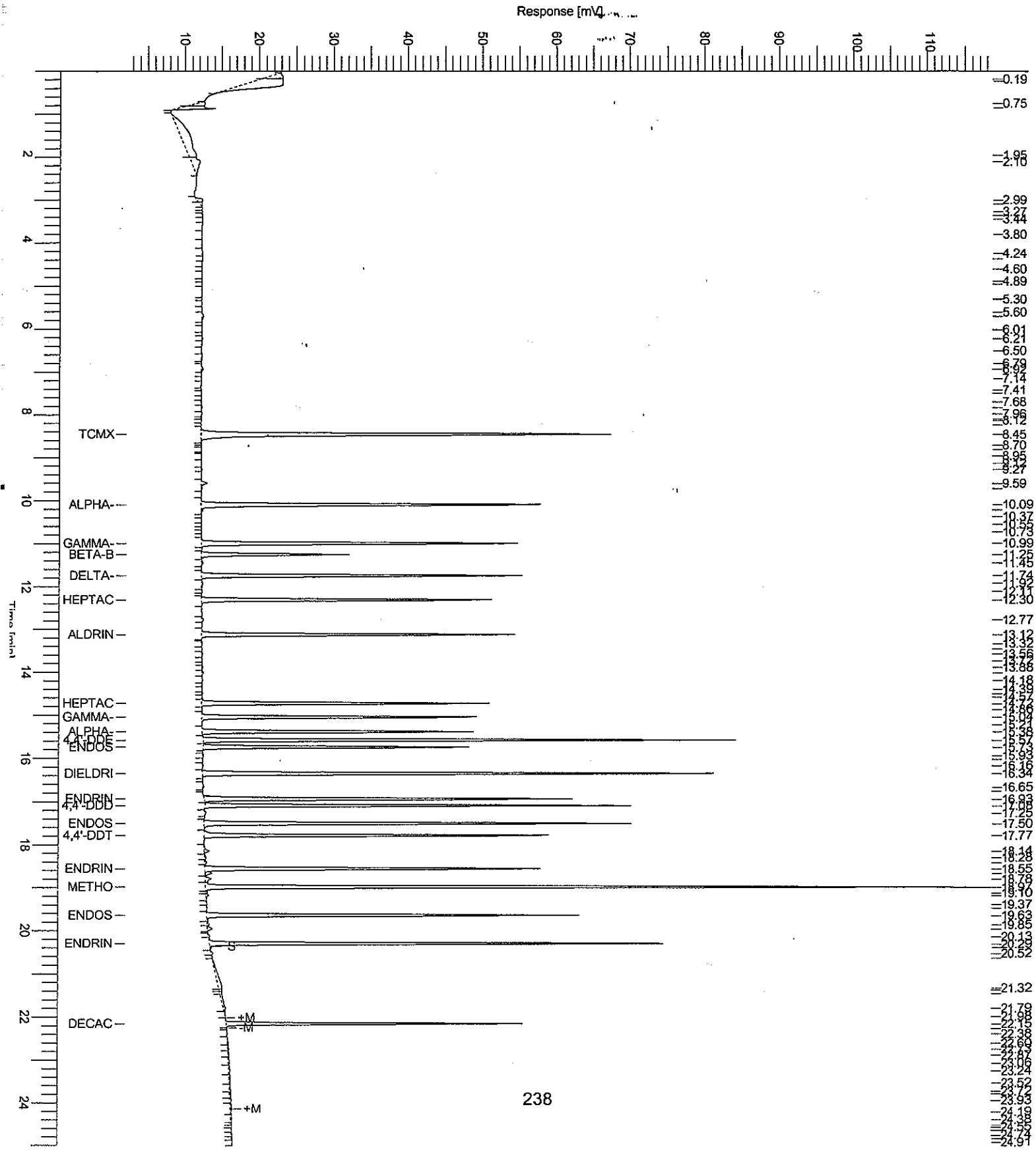
Report stored in ASCII file: G:\gc23\CHA\222a023p.TX0

GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1385,pest_3 Sample #: 10/20ug/L Page 1 of 1
ileName : G:\gc23\CHa\222a023.raw
ate : 8/10/04 10:27:35 AM
lethod : Time of Injection: 8/9/04 10:54:23 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.13 mV High Point : 118.72 mV
lot Offset: 2.13 mV Plot Scale: 116.6 mV



GC23 Rtx-CLPesticides

Sample Name : x,ccv,04ws1385,pest_3 Sample #: 10/20ug/L Page 1 of 1
FileName : G:\gc23\CHa\222a023.raw
Date : 8/10/04 10:19:33 AM
Method : gc23ins Time of Injection: 8/9/04 10:54:23 PM
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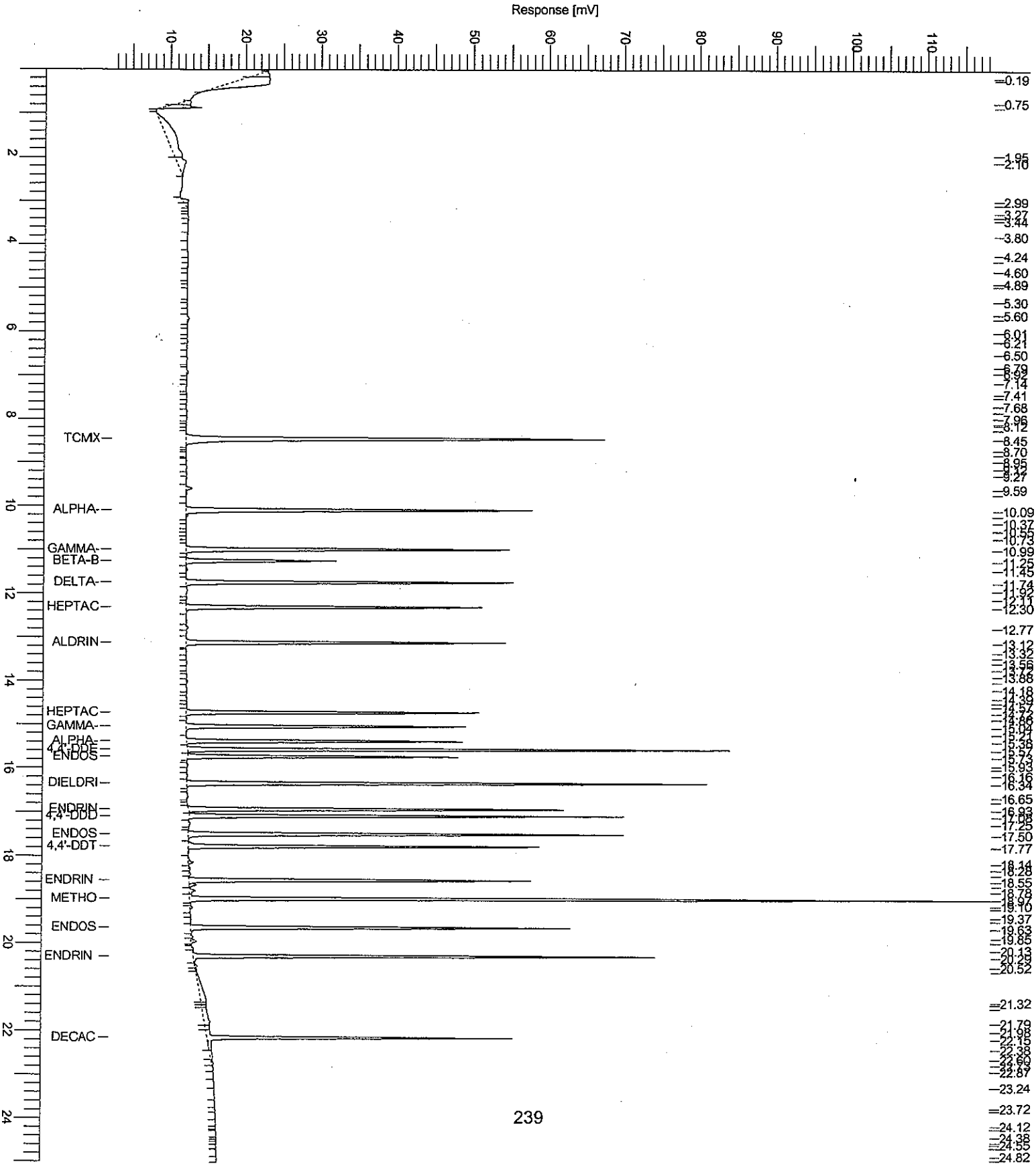
Scale Factor: 1.0 Plot Offset: 2.42 mV Plot Scale: 116.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804322003005 Filename : 223_005 Injected : 10-AUG-2004 15:13
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15342	20.00000	18.34874	pg	-8	15	
gamma-BHC	A	15059	13689	20.00000	18.17974	pg	-9	15	
beta-BHC	A	6479.4	5907.2	20.00000	18.23378	pg	-9	15	
delta-BHC	A	15851	13559	20.00000	17.10825	pg	-14	15	
Heptachlor	A	13477	11796	20.00000	17.50573	pg	-12	15	
Aldrin	A	13606	12137	20.00000	17.84025	pg	-11	15	
Heptachlor epoxide	A	12374	11038	20.00000	17.84092	pg	-11	15	
gamma-Chlordane	A	12312	10895	20.00000	17.69842	pg	-12	15	
alpha-Chlordane	A	11811	10368	20.00000	17.55743	pg	-12	15	
4,4'-DDE	A	11044	9946.2	40.00000	36.02427	pg	-10	15	
Endosulfan I	A	11240	9854.4	20.00000	17.53450	pg	-12	15	
Dieldrin	A	11758	10413	40.00000	35.42283	pg	-11	15	
Endrin	A	9402.5	7058.0	40.00000	30.02630	pg	-25	15	c- ***
4,4'-DDD	A	8525.3	7546.0	40.00000	35.40541	pg	-11	15	
Endosulfan II	A	9810.2	8549.4	40.00000	34.85916	pg	-13	15	
4,4'-DDT	A	8517.8	6867.2	40.00000	32.24883	pg	-19	15	c- ***
Endrin aldehyde	A	7999.2	6531.6	40.00000	32.66102	pg	-18	15	c- rsd ***
Methoxychlor	A	3282.4	2710.4	200.0000	165.1514	pg	-17	15	c- ***
Endosulfan sulfate	A	8559.3	7002.6	40.00000	32.72488	pg	-18	15	c- rsd ***
Endrin ketone	A	9674.9	8452.3	40.00000	34.94493	pg	-13	15	
TCMX	A	10936	10134	40.00000	37.06814	pg	-7	15	
Decachlorobiphenyl	A	5754.4	4386.7	40.00000	30.49260	pg	-24	15	c-
alpha-BHC	B	18244	19808	20.00000	21.71397	pg	9	15	
gamma-BHC	B	16509	17702	20.00000	21.44562	pg	7	15	
beta-BHC	B	7375.5	7863.7	20.00000	21.32387	pg	7	15	
delta-BHC	B	17657	17838	20.00000	20.20509	pg	1	15	
Heptachlor	B	12899	12894	20.00000	19.99284	pg	0	15	
Aldrin	B	15312	16357	20.00000	21.36497	pg	7	15	
Heptachlor epoxide	B	14048	14806	20.00000	21.07849	pg	5	15	
gamma-Chlordane	B	14282	15027	20.00000	21.04392	pg	5	15	
alpha-Chlordane	B	13696	14304	20.00000	20.88865	pg	4	15	
4,4'-DDE	B	13193	14169	40.00000	42.95957	pg	7	15	
Endosulfan I	B	12868	13414	20.00000	20.84868	pg	4	15	
Dieldrin	B	13646	14277	40.00000	41.85088	pg	5	15	
Endrin	B	11081	10310	40.00000	37.21516	pg	-7	15	
4,4'-DDD	B	10321	10679	40.00000	41.38945	pg	3	15	
Endosulfan II	B	11693	11914	40.00000	40.75763	pg	2	15	
4,4'-DDT	B	9451.4	9238.4	40.00000	39.09833	pg	-2	15	
Endrin aldehyde	B	9574.2	8947.6	40.00000	37.38188	pg	-7	15	rsd ***
Methoxychlor	B	3914.9	3901.9	200.0000	199.3362	pg	0	15	
Endosulfan sulfate	B	10710	10142	40.00000	37.87693	pg	-5	15	
Endrin ketone	B	11223	11423	40.00000	40.71210	pg	2	15	
TCMX	B	11938	13021	40.00000	43.63048	pg	9	15	
Decachlorobiphenyl	B	6936.5	6833.3	40.00000	39.40507	pg	-1	15	
Average EPA 8081A	A		(count=22)				14	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 8/10/04 5:15:53 PM
Data Acquisition Time : 8/10/04 3:13:04 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\223b005.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.421	520844.00	43.6305	1.000	1	43.63
alpha-BHC	10.135	396154.54	21.7140	1.000	1	21.71
gamma-BHC	11.114	354035.54	21.4456	1.000	1	21.45
beta-BHC	11.320	157274.00	21.3239	1.000	1	21.32
delta-BHC	12.117	356765.50	20.2051	1.000	1	20.21
Heptachlor	12.306	257880.00	19.9928	1.000	1	19.99
Aldrin	13.156	327139.00	21.3650	1.000	1	21.36
Heptachlor epoxide	14.637	296114.00	21.0785	1.000	1	21.08
gamma-Chlordane	15.116	300539.00	21.0439	1.000	1	21.04
alpha-Chlordane	15.489	286089.00	20.8887	1.000	1	20.89
Endosulfan I	15.630	268285.00	20.8487	1.000	1	20.85
4,4'-DDE	15.934	566775.50	42.9596	1.000	1	42.96
Dieldrin	16.317	571083.83	41.8509	1.000	1	41.85
Endrin	17.078	412381.64	37.2152	1.000	1	37.22
4,4'-DDD	17.367	427173.36	41.3895	1.000	1	41.39
Endosulfan II	17.596	476565.28	40.7576	1.000	1	40.76
4,4'-DDT	18.149	369534.45	39.0983	1.000	1	39.10
Endrin aldehyde	18.433	357902.00	37.3819	1.000	1	37.38
Endosulfan sulfate	19.115	405680.57	37.8769	1.000	1	37.88
Methoxychlor	19.861	780386.55	199.3362	1.000	1	199.34
Endrin ketone	20.384	456912.00	40.7121	1.000	1	40.71
Decachlorobiphenyl	22.749	273331.76	39.4051	1.000	1	39.41
		8618846.53	851.5198			851.52

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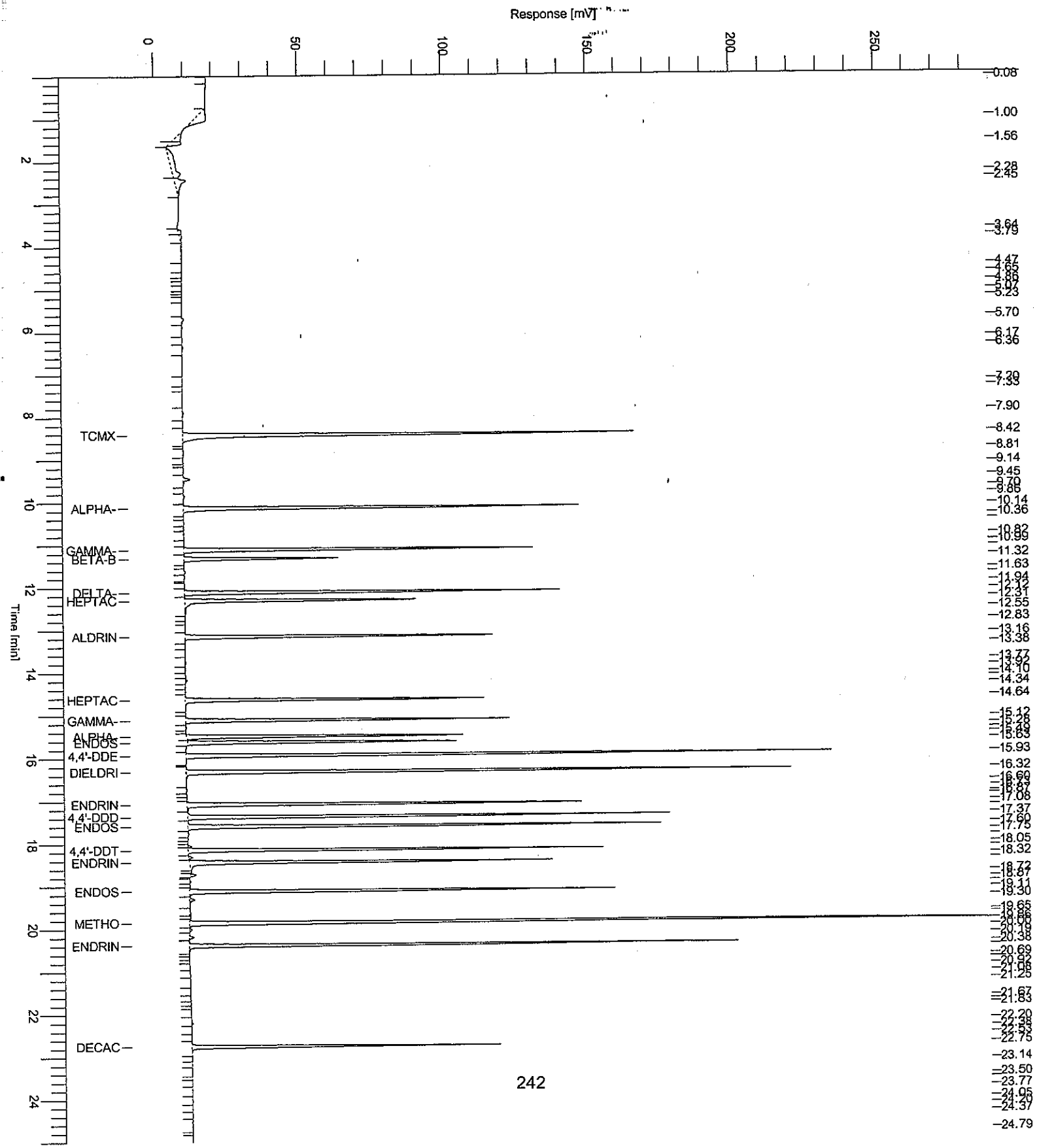
Report stored in ASCII file: G:\gc23\CHB\223b005.TX0

GC23 Rtx-CLPesticides2

mple Name : ccv,04ws0926,pest_4 Sample #: 20/40 ug/L Page 1 of 1
eName : G:\gc23\CHb\223b005
ıte : 8/10/04 5:15:56 PM
ethod : gc23ins Time of Injection: 8/10/04 3:13:04 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -9.74 mV High Point : 288.84 mV
ale Factor: 1.0 Plot Offset: -9.74 mV Plot Scale: 298.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0926,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 8/10/04 5:15:38 PM
Data Acquisition Time : 8/10/04 3:13:04 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\223a005.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.452	405379.53	37.0681	1.000	1	37.07
alpha-BHC	10.096	306844.26	18.3487	1.000	1	18.35
gamma-BHC	10.997	273772.25	18.1797	1.000	1	18.18
beta-BHC	11.252	118143.47	18.2338	1.000	1	18.23
delta-BHC	11.747	271179.05	17.1083	1.000	1	17.11
Heptachlor	12.313	235918.29	17.5057	1.000	1	17.51
Aldrin	13.121	242742.00	17.8402	1.000	1	17.84
Heptachlor epoxide	14.730	220755.13	17.8409	1.000	1	17.84
gamma-Chlordane	15.049	217908.00	17.6984	1.000	1	17.70
alpha-Chlordane	15.385	207362.50	17.5574	1.000	1	17.56
4,4'-DDE	15.580	397847.50	36.0243	1.000	1	36.02
Endosulfan I	15.739	197087.50	17.5345	1.000	1	17.53
Dieldrin	16.350	416514.06	35.4228	1.000	1	35.42
Endrin	16.934	282321.50	30.0263	1.000	1	30.03
4,4'-DDD	17.087	301841.00	35.4054	1.000	1	35.41
Endosulfan II	17.503	341976.50	34.8592	1.000	1	34.86
4,4'-DDT	17.783	274688.00	32.2488	1.000	1	32.25
Endrin aldehyde	18.553	261263.50	32.6610	1.000	1	32.66
Methoxychlor	18.980	542087.00	165.1514	1.000	1	165.15
Endosulfan sulfate	19.644	280103.22	32.7249	1.000	1	32.72
Endrin ketone	20.301	338090.00	34.9449	1.000	1	34.94
Decachlorobiphenyl	22.154	175468.00	30.4926	1.000	1	30.49
		6309292.26	714.8775			714.88

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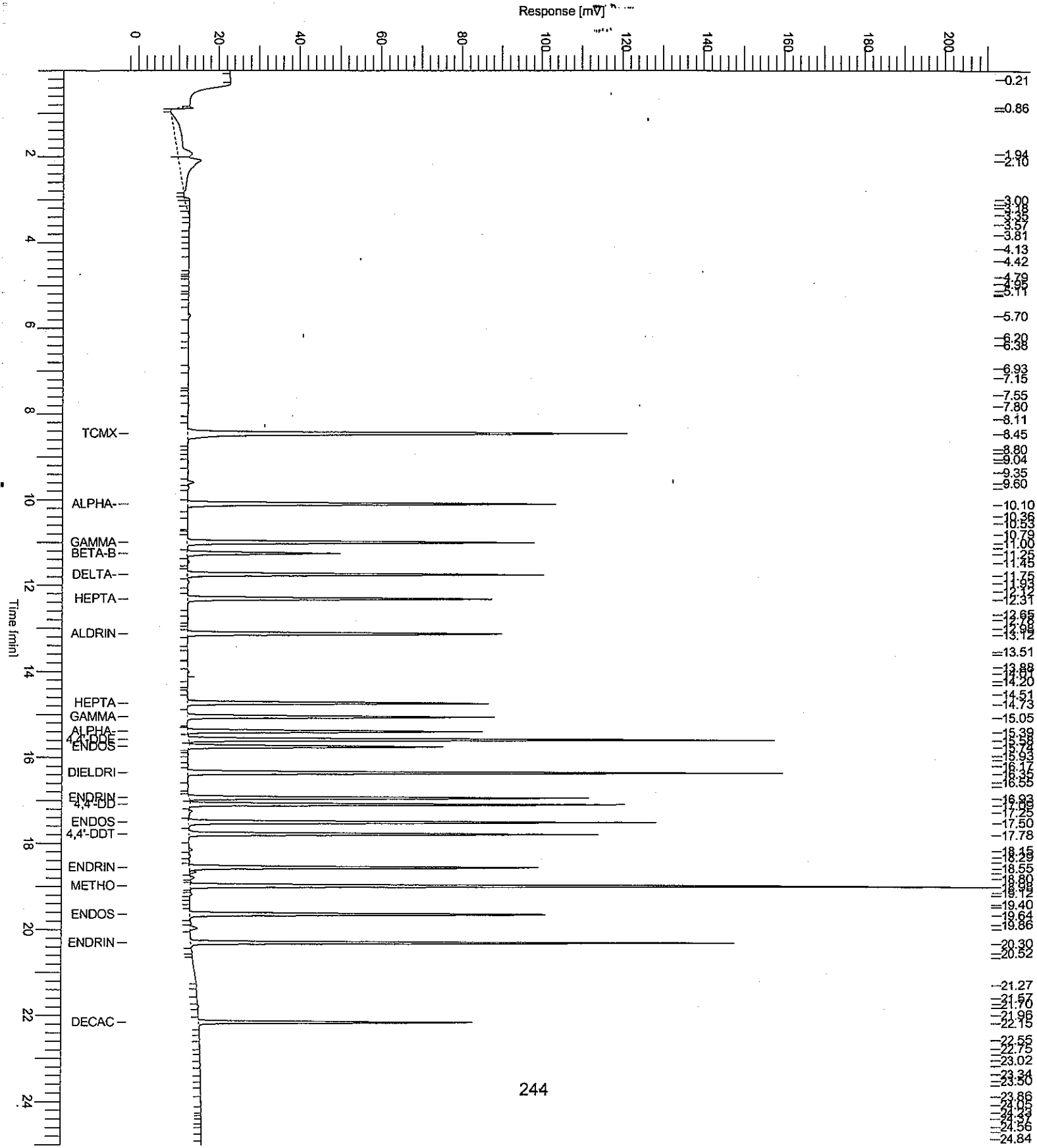
Report stored in ASCII file: G:\gc23\CHA\223a005.TX0

GC23 Rtx-CLPesticides

Sample Name : ccv,04ws0926,pest_4 Sample #: 20/40 ug/L
FileName : G:\gc23\CHA\223a005.raw
Date : 8/10/04 5:15:40 PM
Method : gc23ins Time of Injection: 8/10/04 3:13:04 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -2.29 mV High Point : 211.87 mV
Scale Factor: 1.0 Plot Offset: -2.29 mV Plot Scale: 214.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804322003021 Filename : 223_021 Injected : 11-AUG-2004 01:02
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	16232	10.00000	9.706386	pg	-3	15	
gamma-BHC	A	15059	14581	10.00000	9.682689	pg	-3	15	
beta-BHC	A	6479.4	6332.5	10.00000	9.773322	pg	-2	15	
delta-BHC	A	15851	14178	10.00000	8.944483	pg	-11	15	
Heptachlor	A	13477	12352	10.00000	9.165421	pg	-8	15	
Aldrin	A	13606	12970	10.00000	9.531973	pg	-5	15	
Heptachlor epoxide	A	12374	11853	10.00000	9.579581	pg	-4	15	
gamma-Chlordane	A	12312	11616	10.00000	9.434802	pg	-6	15	
alpha-Chlordane	A	11811	11124	10.00000	9.418293	pg	-6	15	
4,4'-DDE	A	11044	10230	20.00000	18.52602	pg	-7	15	
Endosulfan I	A	11240	10589	10.00000	9.421142	pg	-6	15	
Dieldrin	A	11758	10957	20.00000	18.63763	pg	-7	15	
Endrin	A	9402.5	7974.2	20.00000	16.96192	pg	-15	15	
4,4'-DDD	A	8525.3	8153.0	20.00000	19.12665	pg	-4	15	
Endosulfan II	A	9810.2	8947.5	20.00000	18.24115	pg	-9	15	
4,4'-DDT	A	8517.8	6636.6	20.00000	15.58284	pg	**-22**	15	c- ***
Endrin aldehyde	A	7999.2	7006.7	20.00000	17.51828	pg	-12	15	rsd ***
Methoxychlor	A	3282.4	2740.5	100.0000	83.49172	pg	**-17**	15	c- ***
Endosulfan sulfate	A	8559.3	7470.8	20.00000	17.45652	pg	-13	15	rsd ***
Endrin ketone	A	9674.9	8744.7	20.00000	18.07708	pg	-10	15	
TCMX	A	10936	10849	20.00000	19.84050	pg	-1	15	
Decachlorobiphenyl	A	5754.4	4593.7	20.00000	15.96574	pg	**-20**	15	c-
alpha-BHC	B	18244	21728	10.00000	11.90930	pg	**19**	15	c+ ***
gamma-BHC	B	16509	19523	10.00000	11.82620	pg	**18**	15	c+ ***
beta-BHC	B	7375.5	8729.3	10.00000	11.83555	pg	**18**	15	c+ ***
delta-BHC	B	17657	19232	10.00000	10.89204	pg	9	15	
Heptachlor	B	12899	13592	10.00000	10.53760	pg	5	15	
Aldrin	B	15312	17568	10.00000	11.47350	pg	15	15	
Heptachlor epoxide	B	14048	15965	10.00000	11.36444	pg	14	15	
gamma-Chlordane	B	14282	15793	10.00000	11.05863	pg	11	15	
alpha-Chlordane	B	13696	15035	10.00000	10.97781	pg	10	15	
4,4'-DDE	B	13193	14275	20.00000	21.63913	pg	8	15	
Endosulfan I	B	12868	14293	10.00000	11.10715	pg	11	15	
Dieldrin	B	13646	14922	20.00000	21.87051	pg	9	15	
Endrin	B	11081	11133	20.00000	20.09416	pg	0	15	
4,4'-DDD	B	10321	11131	20.00000	21.57079	pg	8	15	
Endosulfan II	B	11693	12126	20.00000	20.74189	pg	4	15	
4,4'-DDT	B	9451.4	8670.2	20.00000	18.34687	pg	-8	15	
Endrin aldehyde	B	9574.2	9383.6	20.00000	19.60184	pg	-2	15	rsd ***
Methoxychlor	B	3914.9	3669.0	100.0000	93.71795	pg	-6	15	
Endosulfan sulfate	B	10710	10252	20.00000	19.14374	pg	-4	15	
Endrin ketone	B	11223	11304	20.00000	20.14492	pg	1	15	
TCMX	B	11938	14516	20.00000	24.31976	pg	**22**	15	c+
Decachlorobiphenyl	B	6936.5	6088.2	20.00000	17.55414	pg	-12	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				10	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1385,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 8/11/04 11:59:03 AM
Data Acquisition Time : 8/11/04 1:02:13 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\223b021p.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.423	290320.01	24.3198	1.000	1	24.32
alpha-BHC	10.136	217276.00	11.9093	1.000	1	11.91
gamma-BHC	11.114	195233.11	11.8262	1.000	1	11.83
beta-BHC	11.321	87293.00	11.8355	1.000	1	11.84
delta-BHC	12.118	192323.00	10.8920	1.000	1	10.89
Heptachlor	12.311	135920.50	10.5376	1.000	1	10.54
Aldrin	13.156	175681.50	11.4735	1.000	1	11.47
Heptachlor epoxide	14.636	159649.50	11.3644	1.000	1	11.36
gamma-Chlordane	15.115	157934.00	11.0586	1.000	1	11.06
alpha-Chlordane	15.487	150351.00	10.9778	1.000	1	10.98
Endosulfan I	15.627	142929.00	11.1071	1.000	1	11.11
4,4'-DDE	15.932	285490.00	21.6391	1.000	1	21.64
Dieldrin	16.315	298438.00	21.8705	1.000	1	21.87
Endrin	17.071	222663.64	20.0942	1.000	1	20.09
4,4'-DDD	17.365	222628.40	21.5708	1.000	1	21.57
Endosulfan II	17.588	242528.00	20.7419	1.000	1	20.74
4,4'-DDT	18.145	173403.81	18.3469	1.000	1	18.35
Endrin aldehyde	18.431	187672.16	19.6018	1.000	1	19.60
Endosulfan sulfate	19.111	205038.90	19.1437	1.000	1	19.14
Methoxychlor	19.852	366898.85	93.7180	1.000	1	93.72
Endrin ketone	20.382	226086.48	20.1449	1.000	1	20.14
Decachlorobiphenyl	22.745	121763.62	17.5541	1.000	1	17.55
		4457522.47	431.7279			431.73

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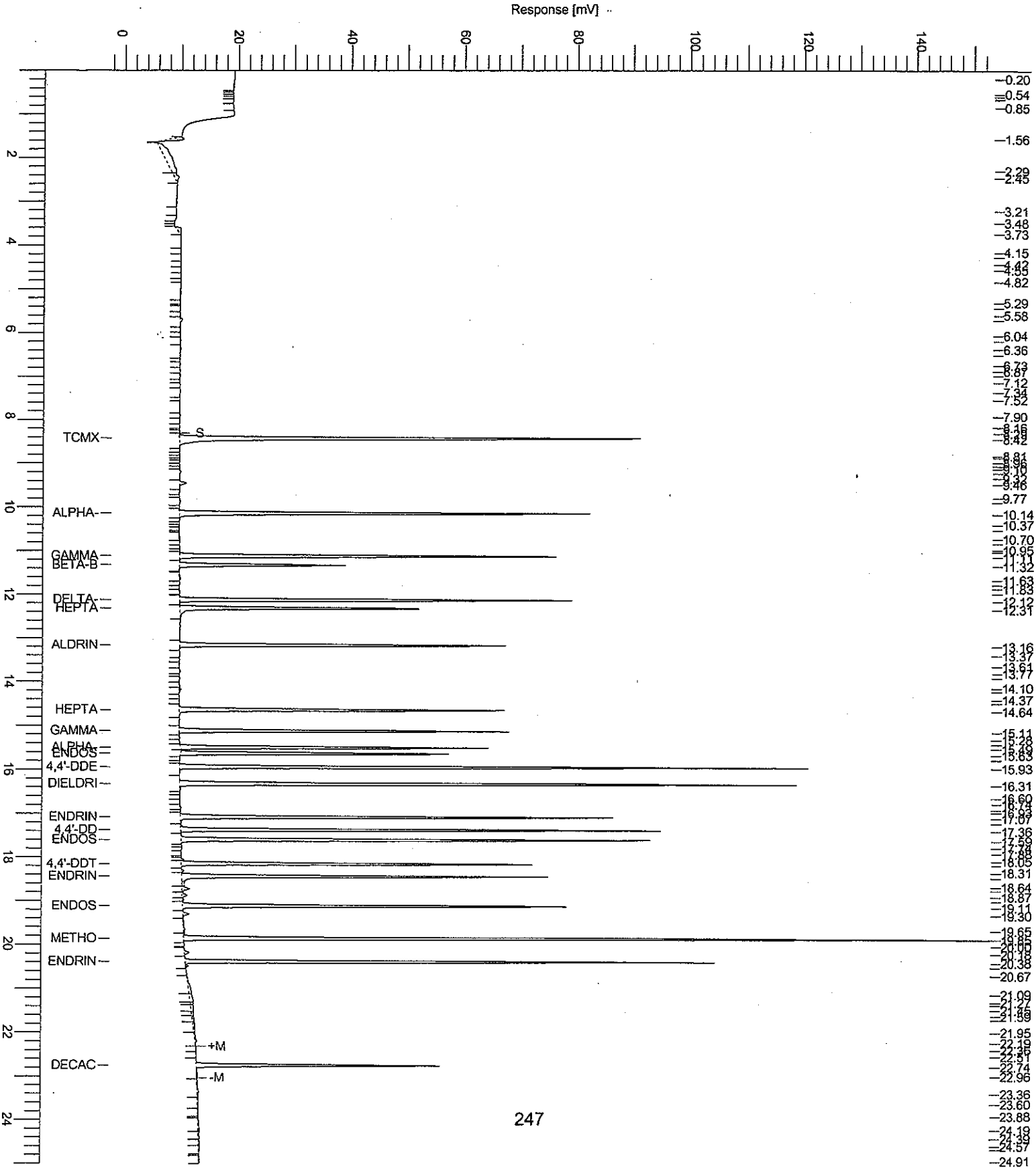
Report stored in ASCII file: G:\gc23\CHB\223b021p.TX0

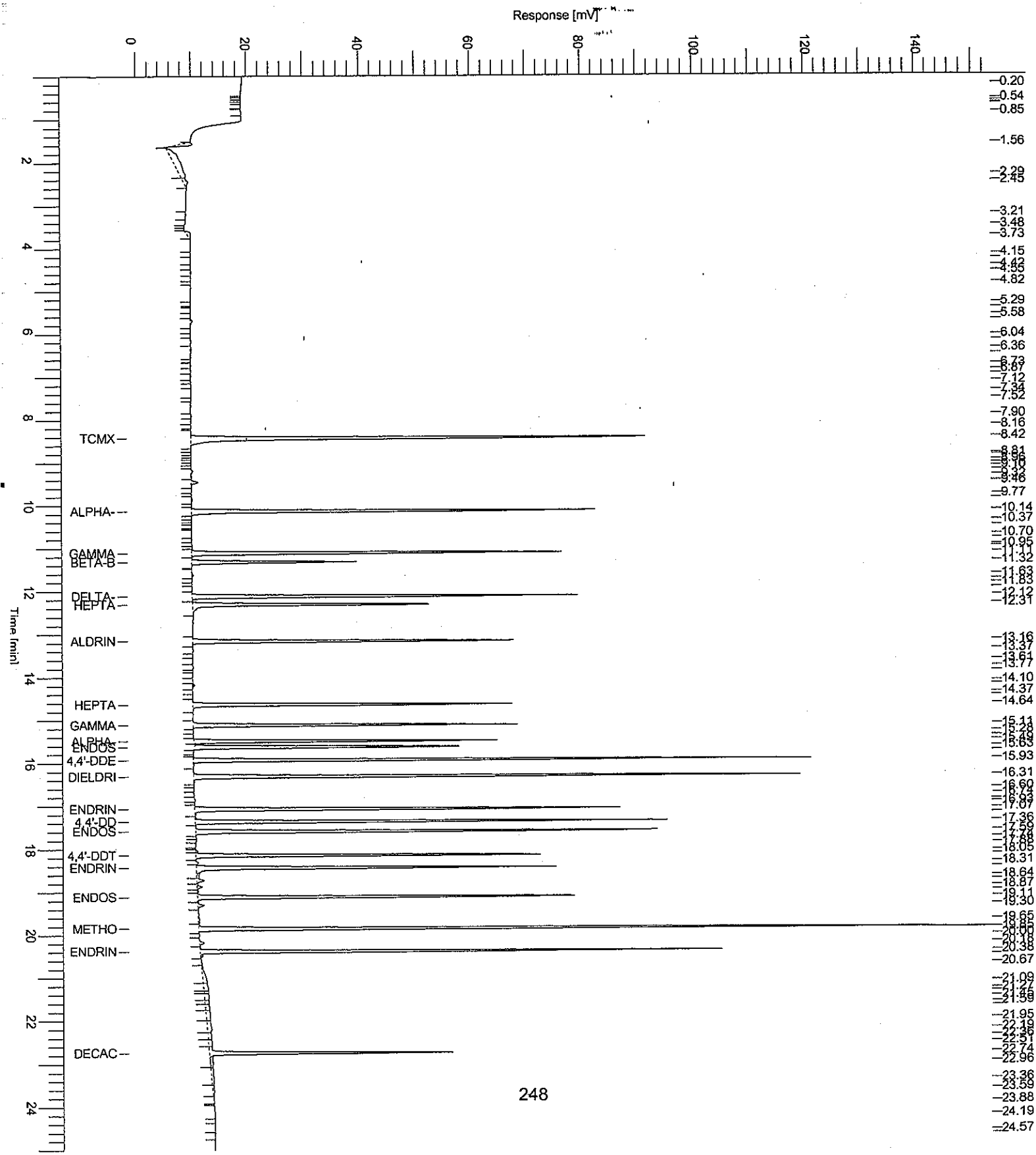
GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1385,pest_3 Sample #: 10/20ug/L Page 1 of 1
leName : G:\gc23\CHb\223b021.raw
ate : 8/11/04 11:59:07 AM
ethod : Time of Injection: 8/11/04 1:02:13 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.23 mV High Point : 153.62 mV
ot Offset: -2.23 mV Plot Scale: 155.8 mV



GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1385,pest_3 Sample #: 10/20ug/L Page 1 of 1
eName : G:\gc23\CHb\223b021
ate : 8/11/04 10:39:22 AM
ethod : gc23ins Time of Injection: 8/11/04 1:02:13 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -1.84 mV High Point : 153.62 mV
cale Factor: 1.0 Plot Offset: -1.84 mV Plot Scale: 155.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1385,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 8/11/04 11:57:07 AM
Data Acquisition Time : 8/11/04 1:02:13 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\223a021p.rst
Sequence File : G:\gc23\Files\223.seq

PEST GC23 CHANNEL A METH. 8081

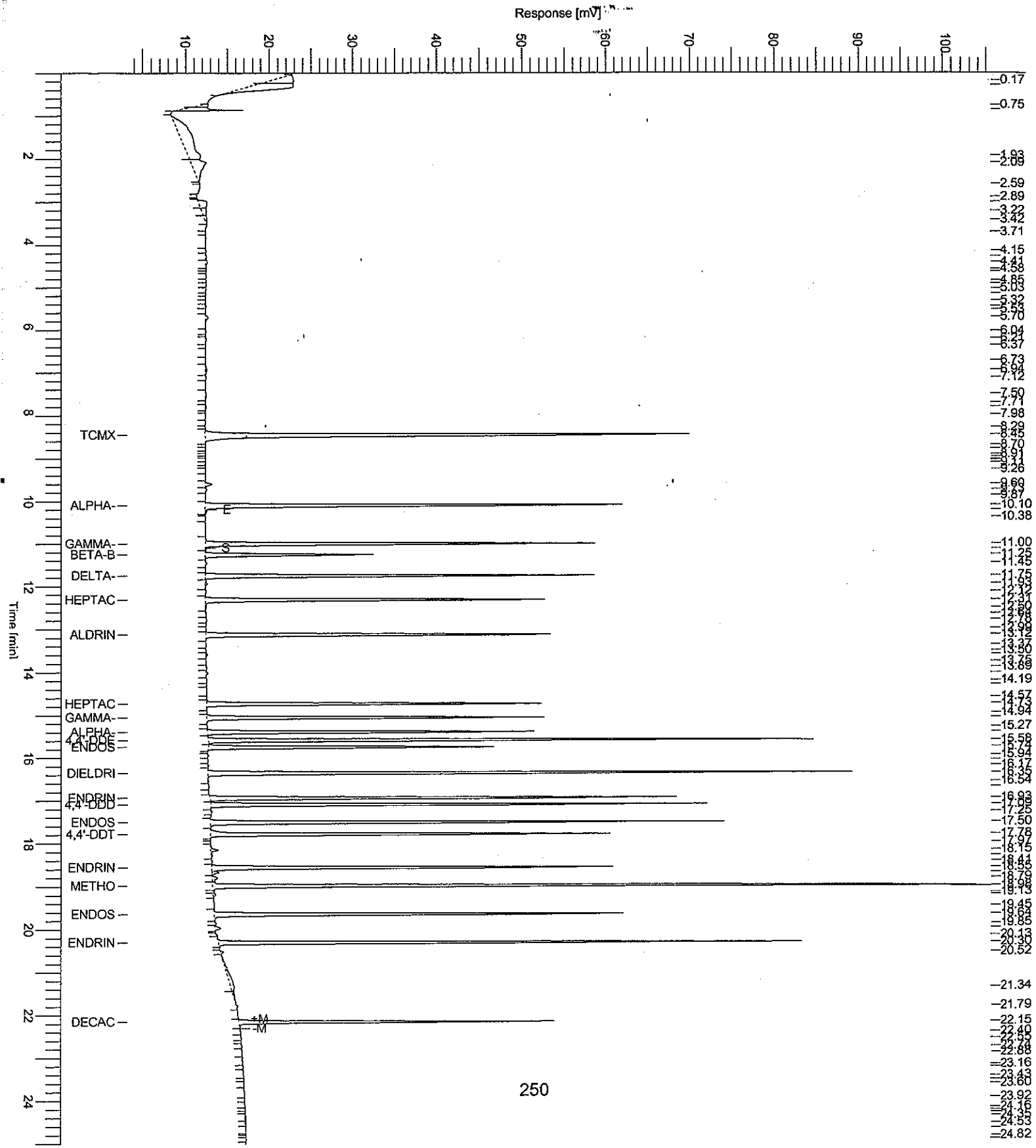
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.454	216977.01	19.8405	1.000	1	19.84
alpha-BHC	10.098	162319.00	9.7064	1.000	1	9.71
gamma-BHC	10.998	145813.50	9.6827	1.000	1	9.68
beta-BHC	11.254	63325.00	9.7733	1.000	1	9.77
delta-BHC	11.748	141776.99	8.9445	1.000	1	8.94
Heptachlor	12.314	123519.00	9.1654	1.000	1	9.17
Aldrin	13.122	129696.09	9.5320	1.000	1	9.53
Heptachlor epoxide	14.730	118533.22	9.5796	1.000	1	9.58
gamma-Chlordane	15.048	116163.98	9.4348	1.000	1	9.43
alpha-Chlordane	15.385	111235.00	9.4183	1.000	1	9.42
4,4'-DDE	15.579	204599.00	18.5260	1.000	1	18.53
Endosulfan I	15.739	105893.50	9.4211	1.000	1	9.42
Dieldrin	16.349	219147.84	18.6376	1.000	1	18.64
Endrin	16.933	159484.00	16.9619	1.000	1	16.96
4,4'-DDD	17.086	163060.00	19.1266	1.000	1	19.13
Endosulfan II	17.501	178950.00	18.2412	1.000	1	18.24
4,4'-DDT	17.782	132731.00	15.5828	1.000	1	15.58
Endrin aldehyde	18.552	140133.04	17.5183	1.000	1	17.52
Methoxychlor	18.978	274050.18	83.4917	1.000	1	83.49
Endosulfan sulfate	19.638	149416.16	17.4565	1.000	1	17.46
Endrin ketone	20.300	174894.65	18.0771	1.000	1	18.08
Decachlorobiphenyl	22.152	91873.97	15.9657	1.000	1	15.97
		3323592.13	374.0841			374.08

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\223a021p.TX0

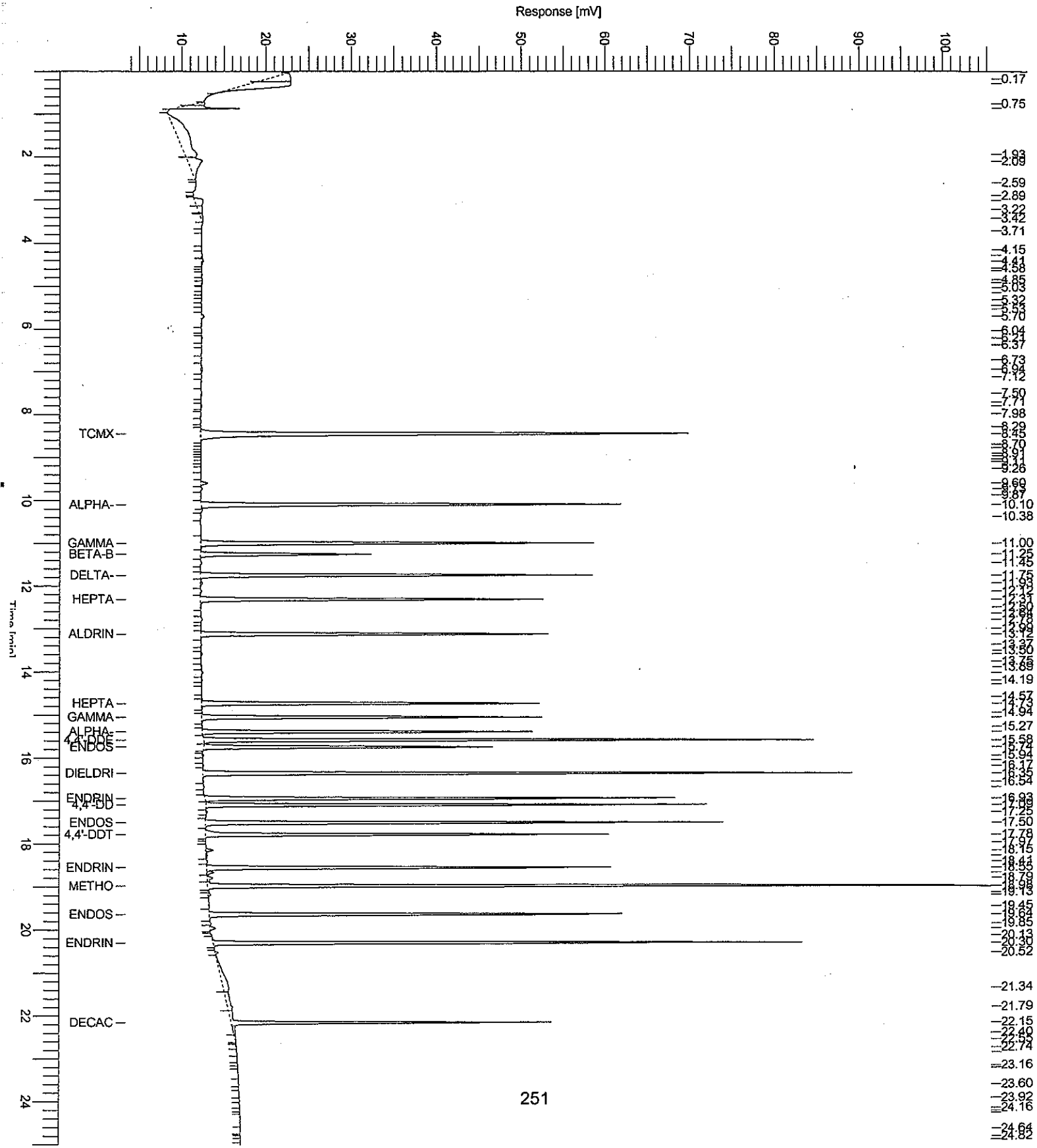
GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1385,pest_3 Sample #: 10/20ug/L Page 1 of 1
ileName : G:\gc23\CHA\223a021.raw
ate : 8/11/04 11:57:12 AM
lethod : Time of Injection: 8/11/04 1:02:13 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.14 mV High Point : 105.58 mV
lot Offset: 3.14 mV Plot Scale: 102.4 mV



GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1385,pest_3 Sample #: 10/20ug/L Page 1 of 1
iteName : G:\gc23\CHA\223a021.raw
ate : 8/11/04 10:38:57 AM
lethod : gc23ins Time of Injection: 8/11/04 1:02:13 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.40 mV High Point : 105.58 mV
cale Factor: 1.0 Plot Offset: 3.40 mV Plot Scale: 102.2 mV



MOISTURE DATA

Percent Moisture Summary Report

Batch: 93677
Date: 08/12/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173857-001	15.4365	22.8128	22.4789	95	5
173857-002	15.2825	22.2745	21.9924	96	4
173881-025	15.2216	22.6951	22.3870	96	4
173881-026	15.5389	22.8794	22.5438	95	5
173881-028	15.6512	22.8394	22.5465	96	4
173881-029	15.2827	22.6613	22.4821	98	2
173881-030	15.5933	22.3822	22.1381	96	4
173895-001	15.4115	22.8971	22.4930	95	5
173895-002	15.4235	22.3865	21.5073	87	13
173895-003	15.4641	22.5407	21.6587	88	12
173895-004	15.4109	22.6418	20.7659	74	26
173895-005	15.2925	22.9394	21.8503	86	14
173895-006	15.2137	22.3705	21.8531	93	7
QC260907	15.7376	22.6171	22.2460	95	5
of 173857-001			RPD:	0.9%	17.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93677
Date Started: 11-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
L73857-001		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
L73857-002		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
L73881-025		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-026		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-028		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
.73881-029		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
.73881-030		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
.73895-001		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-002		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-003		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-004		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-005		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-006		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
)C260907	SDUP of 173857-001		Soil	MOISTURE	

8/11/04

#93677

Sample	Bk	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	3	15.3476	—	15.3477	
173881-25	A	80	15.2216	22.6951	22.3870	
26		112	15.5389	22.8794	22.5438	
28		1976	15.6512	22.8364	22.5465	
29		713	15.2827	22.6613	22.4821	
30		29	15.5933	22.3822	22.1381	
173857-1		32	15.4365	22.8128	22.4789	
DUP 1		33	15.7376	22.6171	22.2460	
95 2		26	15.2825	22.2745	21.9824	
173859-1		6	15.4115	22.8971	22.4530	
8/11 2		34	15.4235	22.3865	21.5873	
3		HIDEL	15.4641	22.5407	21.6587	
4		24	15.4109	22.6418	20.7659	
5		44	15.2925	22.4394	21.8503	
6		146	15.2137	22.3705	21.8531	

OVEN TEMP: 103°C
TIME IN: 4:45 P.M.
TIME OUT: 9:38 A.M. OV: 8/12/04

Continued on Page

Read and Understood By

Signed: R. Manning Date: 8/11/04 Signed: [illegible] Date: 8-11

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173857
Purgeable Organics by GC/MS

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio - Baker Beach 3

Sample ID	Lab ID
BB3EX108[0.5]	173857-001
DUP080504A	173857-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/7/04
Operations Manager

Signature: _____ Date: 8/30/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Laboratory number:	173857
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio - Baker Beach 3
Request Date:	08/05/04
Samples Received:	08/05/04

This hardcopy data package contains sample and batch QC results for two soil samples, requested for the above referenced project on 08/05/04. The samples were received cold and intact.

No analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

173857

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2393.12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Chambers
Recorder (Signature Required): [signature]

Turnaround Time: 5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	pesticides	PCBs	mercury	VOCs	SVOCs	TPH diesel	TPH fuel oil	Chlorinated Herb				Silica gel clean-up	Hold	Remarks
-1 BB3EX10Y[0-3]	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		
-2 DUP080504A	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		"B"

Send tube from "B" and labeled 3 times
Level 4 data
Package

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/5/04	1415	John Peyton	8/5	2:8
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Mark Cohen	Date 8-5-04	Time 15:30	Received by Lab: (Signature) Lavanna Cuti	Date 8/5/04	Time 15:50

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Send Login to Colleen Haradin - SF Office

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☒ Private Courier (Co. Name) Ultra Ex

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002235

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173857 Date Received: 8-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 8-5-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C ..... (YES) NO
   Type of ice: wet Temperature: cold – no temp blank

B. Login Phase
Date Logged In: 8-5-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX108[0.5]	Diln Fac:	0.9804
Lab ID:	173857-001	Batch#:	93511
Matrix:	Soil	Sampled:	08/05/04
Units:	ug/Kg	Received:	08/05/04
Basis:	dry	Analyzed:	08/05/04

Moisture: 5%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.09
Chloromethane	ND	10	0.1
Vinyl Chloride	ND	10	0.3
Bromomethane	ND	10	0.3
Chloroethane	ND	10	0.3
Trichlorofluoromethane	ND	5.2	0.2
Acetone	ND	21	1.1
Freon 113	ND	5.2	0.1
1,1-Dichloroethene	ND	5.2	0.5
Methylene Chloride	ND	21	0.7
Carbon Disulfide	ND	5.2	0.1
MTBE	ND	5.2	0.1
trans-1,2-Dichloroethene	ND	5.2	0.2
Vinyl Acetate	ND	52	0.08
1,1-Dichloroethane	ND	5.2	0.09
2-Butanone	ND	10	0.1
cis-1,2-Dichloroethene	ND	5.2	0.1
2,2-Dichloropropane	ND	5.2	0.06
Chloroform	ND	5.2	0.1
Bromochloromethane	ND	5.2	0.1
1,1,1-Trichloroethane	ND	5.2	0.1
1,1-Dichloropropene	ND	5.2	0.08
Carbon Tetrachloride	ND	5.2	0.4
1,2-Dichloroethane	ND	5.2	0.09
Benzene	ND	5.2	0.06
Trichloroethene	ND	5.2	0.1
1,2-Dichloropropane	ND	5.2	0.1
Bromodichloromethane	ND	5.2	0.1
Dibromomethane	ND	5.2	0.2
4-Methyl-2-Pentanone	ND	10	0.3
cis-1,3-Dichloropropene	ND	5.2	0.3
Toluene	ND	5.2	0.1
trans-1,3-Dichloropropene	ND	5.2	0.09
1,1,2-Trichloroethane	ND	5.2	0.3
2-Hexanone	ND	10	0.1
1,3-Dichloropropane	ND	5.2	0.05
Tetrachloroethene	ND	5.2	0.09
Dibromochloromethane	ND	5.2	0.08
1,2-Dibromoethane	ND	5.2	0.1
Chlorobenzene	ND	5.2	0.08
1,1,1,2-Tetrachloroethane	ND	5.2	0.1
Ethylbenzene	ND	5.2	0.07
m,p-Xylenes	ND	5.2	0.2
o-Xylene	ND	5.2	0.09
Styrene	ND	5.2	0.06
Bromoform	ND	5.2	0.2
Isopropylbenzene	ND	5.2	0.1
1,1,2,2-Tetrachloroethane	ND	5.2	0.08
1,2,3-Trichloropropane	ND	5.2	0.2
Propylbenzene	ND	5.2	0.08
Bromobenzene	ND	5.2	0.2
1,3,5-Trimethylbenzene	ND	5.2	0.07

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX108[0.5]	Diln Fac:	0.9804
Lab ID:	173857-001	Batch#:	93511
Matrix:	Soil	Sampled:	08/05/04
Units:	ug/Kg	Received:	08/05/04
Basis:	dry	Analyzed:	08/05/04

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.2	0.09
4-Chlorotoluene	ND	5.2	0.1
tert-Butylbenzene	ND	5.2	0.07
1,2,4-Trimethylbenzene	ND	5.2	0.07
sec-Butylbenzene	ND	5.2	0.07
para-Isopropyl Toluene	ND	5.2	0.1
1,3-Dichlorobenzene	ND	5.2	0.1
1,4-Dichlorobenzene	ND	5.2	0.1
n-Butylbenzene	ND	5.2	0.1
1,2-Dichlorobenzene	ND	5.2	0.1
1,2-Dibromo-3-Chloropropane	ND	5.2	0.6
1,2,4-Trichlorobenzene	ND	5.2	0.2
Hexachlorobutadiene	ND	5.2	0.08
Naphthalene	ND	5.2	0.1
1,2,3-Trichlorobenzene	ND	5.2	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-113
1,2-Dichloroethane-d4	93	70-121
Toluene-d8	96	84-138
Bromofluorobenzene	94	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	DUP080504A	Diln Fac:	0.9434
Lab ID:	173857-002	Batch#:	93511
Matrix:	Soil	Sampled:	08/05/04
Units:	ug/Kg	Received:	08/05/04
Basis:	dry	Analyzed:	08/05/04

Moisture: 4%

Analyte	Result	RL	MDL
Freon 12	ND	9.8	0.08
Chloromethane	ND	9.8	0.1
Vinyl Chloride	ND	9.8	0.3
Bromomethane	ND	9.8	0.3
Chloroethane	ND	9.8	0.3
Trichlorofluoromethane	ND	4.9	0.1
Acetone	ND	20	1.0
Freon 113	ND	4.9	0.1
1,1-Dichloroethene	ND	4.9	0.4
Methylene Chloride	ND	20	0.6
Carbon Disulfide	ND	4.9	0.1
MTBE	ND	4.9	0.1
trans-1,2-Dichloroethene	ND	4.9	0.2
Vinyl Acetate	ND	49	0.07
1,1-Dichloroethane	ND	4.9	0.08
2-Butanone	ND	9.8	0.1
cis-1,2-Dichloroethene	ND	4.9	0.09
2,2-Dichloropropane	ND	4.9	0.06
Chloroform	ND	4.9	0.1
Bromochloromethane	ND	4.9	0.1
1,1,1-Trichloroethane	ND	4.9	0.1
1,1-Dichloropropene	ND	4.9	0.08
Carbon Tetrachloride	ND	4.9	0.4
1,2-Dichloroethane	ND	4.9	0.09
Benzene	ND	4.9	0.05
Trichloroethene	ND	4.9	0.1
1,2-Dichloropropane	ND	4.9	0.09
Bromodichloromethane	ND	4.9	0.1
Dibromomethane	ND	4.9	0.2
4-Methyl-2-Pentanone	ND	9.8	0.3
cis-1,3-Dichloropropene	ND	4.9	0.3
Toluene	ND	4.9	0.1
trans-1,3-Dichloropropene	ND	4.9	0.09
1,1,2-Trichloroethane	ND	4.9	0.3
2-Hexanone	ND	9.8	0.1
1,3-Dichloropropane	ND	4.9	0.05
Tetrachloroethene	ND	4.9	0.08
Dibromochloromethane	ND	4.9	0.07
1,2-Dibromoethane	ND	4.9	0.1
Chlorobenzene	ND	4.9	0.08
1,1,1,2-Tetrachloroethane	ND	4.9	0.1
Ethylbenzene	ND	4.9	0.06
m,p-Xylenes	ND	4.9	0.2
o-Xylene	ND	4.9	0.09
Styrene	ND	4.9	0.06
Bromoform	ND	4.9	0.2
Isopropylbenzene	ND	4.9	0.1
1,1,2,2-Tetrachloroethane	ND	4.9	0.08
1,2,3-Trichloropropane	ND	4.9	0.2
Propylbenzene	ND	4.9	0.08
Bromobenzene	ND	4.9	0.2
1,3,5-Trimethylbenzene	ND	4.9	0.07

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	DUP080504A	Diln Fac:	0.9434
Lab ID:	173857-002	Batch#:	93511
Matrix:	Soil	Sampled:	08/05/04
Units:	ug/Kg	Received:	08/05/04
Basis:	dry	Analyzed:	08/05/04

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	4.9	0.09
4-Chlorotoluene	ND	4.9	0.1
tert-Butylbenzene	ND	4.9	0.07
1,2,4-Trimethylbenzene	ND	4.9	0.07
sec-Butylbenzene	ND	4.9	0.07
para-Isopropyl Toluene	ND	4.9	0.1
1,3-Dichlorobenzene	ND	4.9	0.1
1,4-Dichlorobenzene	ND	4.9	0.1
n-Butylbenzene	ND	4.9	0.1
1,2-Dichlorobenzene	ND	4.9	0.1
1,2-Dibromo-3-Chloropropane	ND	4.9	0.5
1,2,4-Trichlorobenzene	ND	4.9	0.2
Hexachlorobutadiene	ND	4.9	0.08
Naphthalene	ND	4.9	0.1
1,2,3-Trichlorobenzene	ND	4.9	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	102	59-113
1,2-Dichloroethane-d4	93	70-121
Toluene-d8	98	84-138
Bromofluorobenzene	95	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC260268	Diln Fac:	1.000
Matrix:	Soil	Batch#:	93511
Units:	ug/Kg	Analyzed:	08/05/04

Analyte	Result	RL	MDL
Freon 12	ND	10	0.08
Chloromethane	ND	10	0.1
Vinyl Chloride	ND	10	0.3
Bromomethane	ND	10	0.3
Chloroethane	ND	10	0.3
Trichlorofluoromethane	ND	5.0	0.2
Acetone	ND	20	1.0
Freon 113	ND	5.0	0.1
1,1-Dichloroethene	ND	5.0	0.5
Methylene Chloride	ND	20	0.7
Carbon Disulfide	ND	5.0	0.1
MTBE	ND	5.0	0.1
trans-1,2-Dichloroethene	ND	5.0	0.2
Vinyl Acetate	ND	50	0.07
1,1-Dichloroethane	ND	5.0	0.09
2-Butanone	ND	10	0.1
cis-1,2-Dichloroethene	ND	5.0	0.1
2,2-Dichloropropane	ND	5.0	0.06
Chloroform	ND	5.0	0.1
Bromochloromethane	ND	5.0	0.1
1,1,1-Trichloroethane	ND	5.0	0.1
1,1-Dichloropropene	ND	5.0	0.08
Carbon Tetrachloride	ND	5.0	0.4
1,2-Dichloroethane	ND	5.0	0.09
Benzene	ND	5.0	0.06
Trichloroethene	ND	5.0	0.1
1,2-Dichloropropane	ND	5.0	0.1
Bromodichloromethane	ND	5.0	0.1
Dibromomethane	ND	5.0	0.2
4-Methyl-2-Pentanone	ND	10	0.3
cis-1,3-Dichloropropene	ND	5.0	0.3
Toluene	ND	5.0	0.1
trans-1,3-Dichloropropene	ND	5.0	0.09
1,1,2-Trichloroethane	ND	5.0	0.3
2-Hexanone	ND	10	0.1
1,3-Dichloropropane	ND	5.0	0.05
Tetrachloroethene	ND	5.0	0.09
Dibromochloromethane	ND	5.0	0.07
1,2-Dibromoethane	ND	5.0	0.1
Chlorobenzene	ND	5.0	0.08
1,1,1,2-Tetrachloroethane	ND	5.0	0.1
Ethylbenzene	ND	5.0	0.07
m,p-Xylenes	ND	5.0	0.2
o-Xylene	ND	5.0	0.09
Styrene	ND	5.0	0.06
Bromoform	ND	5.0	0.2
Isopropylbenzene	ND	5.0	0.1
1,1,2,2-Tetrachloroethane	ND	5.0	0.08
1,2,3-Trichloropropane	ND	5.0	0.2
Propylbenzene	ND	5.0	0.08
Bromobenzene	ND	5.0	0.2
1,3,5-Trimethylbenzene	ND	5.0	0.07
2-Chlorotoluene	ND	5.0	0.09
4-Chlorotoluene	ND	5.0	0.1

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC260268	Diln Fac:	1.000
Matrix:	Soil	Batch#:	93511
Units:	ug/Kg	Analyzed:	08/05/04

Analyte	Result	RL	MDL
tert-Butylbenzene	ND	5.0	0.07
1,2,4-Trimethylbenzene	ND	5.0	0.07
sec-Butylbenzene	ND	5.0	0.07
para-Isopropyl Toluene	ND	5.0	0.1
1,3-Dichlorobenzene	ND	5.0	0.1
1,4-Dichlorobenzene	ND	5.0	0.1
n-Butylbenzene	ND	5.0	0.1
1,2-Dichlorobenzene	ND	5.0	0.1
1,2-Dibromo-3-Chloropropane	ND	5.0	0.6
1,2,4-Trichlorobenzene	ND	5.0	0.2
Hexachlorobutadiene	ND	5.0	0.08
Naphthalene	ND	5.0	0.2
1,2,3-Trichlorobenzene	ND	5.0	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-113
1,2-Dichloroethane-d4	94	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	97	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC260267	Diln Fac:	1.000
Matrix:	Soil	Batch#:	93511
Units:	ug/Kg	Analyzed:	08/05/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	51.22	102	65-135
Benzene	50.00	51.76	104	65-135
Trichloroethene	50.00	50.62	101	65-135
Toluene	50.00	50.46	101	65-135
Chlorobenzene	50.00	50.37	101	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	96	59-113
1,2-Dichloroethane-d4	97	70-121
Toluene-d8	97	84-138
Bromofluorobenzene	89	59-113

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	93511
MSS Lab ID:	173765-001	Sampled:	07/30/04
Matrix:	TCLP Leachate	Received:	08/02/04
Units:	ug/L	Analyzed:	08/05/04
Diln Fac:	0.9200		

Type: MS Lab ID: QC260269

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1300	46.00	41.85	91	65-135
Benzene	<0.1900	46.00	44.26	96	65-135
Trichloroethene	<0.1500	46.00	42.91	93	65-135
Toluene	<0.2000	46.00	43.85	95	65-135
Chlorobenzene	<0.2000	46.00	42.12	92	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	93	59-113
1,2-Dichloroethane-d4	91	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	89	59-113

Type: MSD Lab ID: QC260270

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	46.00	40.97	89	65-135	2	35
Benzene	46.00	43.54	95	65-135	2	35
Trichloroethene	46.00	42.19	92	65-135	2	35
Toluene	46.00	42.85	93	65-135	2	35
Chlorobenzene	46.00	43.23	94	65-135	3	35

Surrogate	%REC	Limits
Dibromofluoromethane	91	59-113
1,2-Dichloroethane-d4	89	70-121
Toluene-d8	96	84-138
Bromofluorobenzene	89	59-113

RPD= Relative Percent Difference

8260S / 8260W ICAL

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF11.D

Date : 15-JUL-2004 16:30

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

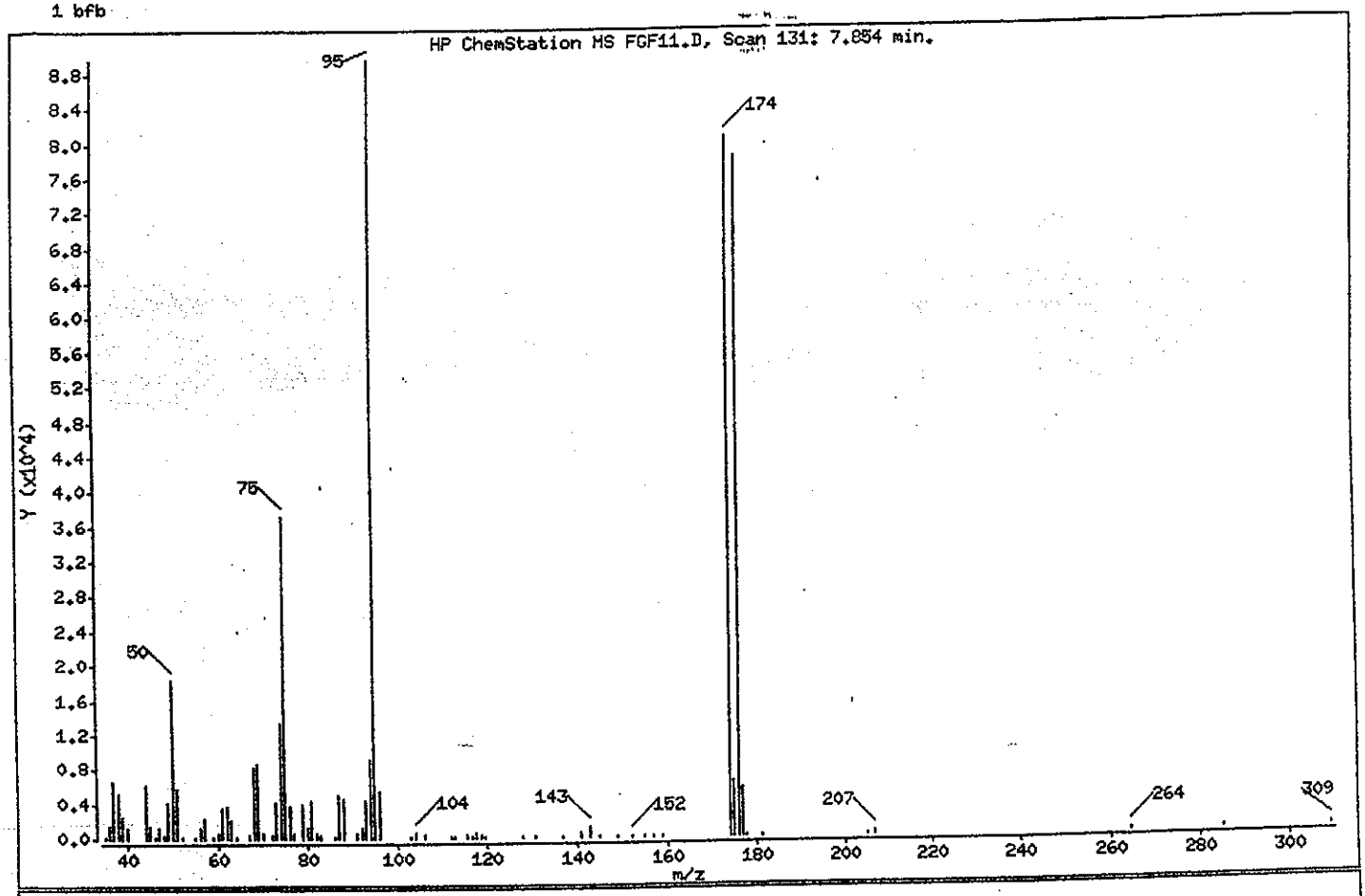
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.51
75	30.00 - 60.00% of mass 95	41.46
96	5.00 - 9.00% of mass 95	5.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	89.87
175	5.00 - 9.00% of mass 174	7.10 (7.90)
176	95.01 - 100.99% of mass 174	87.22 (97.05)
177	5.00 - 9.00% of mass 176	6.22 (7.13)

7/16/04

7/16/04

7/16/04

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH501.D

Date : 05-AUG-2004 09:41

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

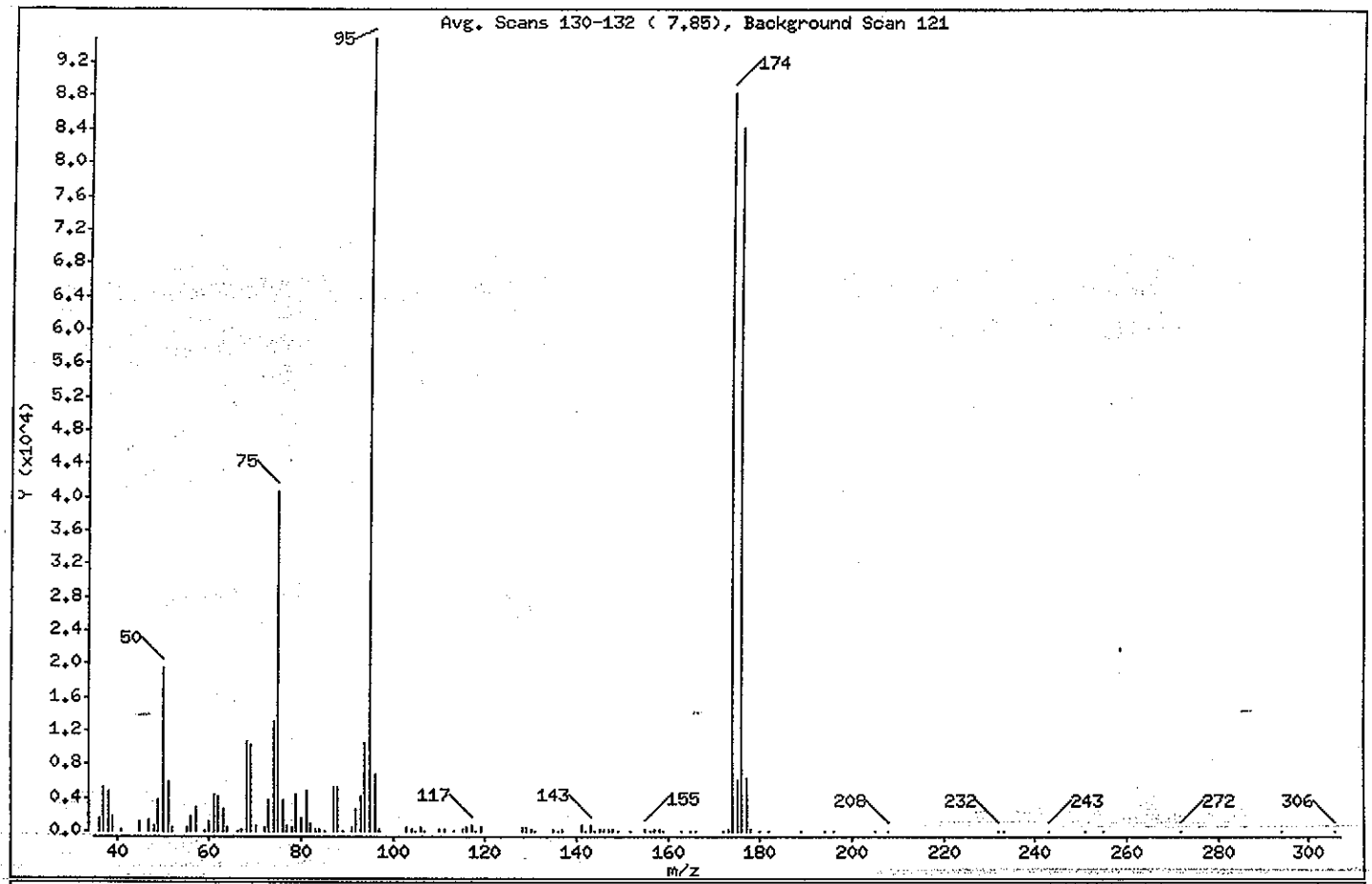
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.53
75	30.00 - 60.00% of mass 95	42.66
96	5.00 - 9.00% of mass 95	7.17
173	Less than 2.00% of mass 174	0.17 (0.18)
174	50.00 - 99.99% of mass 95	93.04
175	5.00 - 9.00% of mass 174	6.54 (7.03)
176	95.01 - 100.99% of mass 174	88.82 (95.46)
177	5.00 - 9.00% of mass 176	6.73 (7.57)

MD 8/5/04

AL 08/04/04

8260 S ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By: [illegible] 7/16/04

Instrument: MSVOA06 HP GCMS VOA 06 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000
Calnum: 454284216002 Name: I6M826

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	fgf24	454284216024	5PPB	15-JUL-2004 23:42	04SS242 (100000X), 04WS1132B (50000X), 04WS1255 (1000X)
2	fgf25	454284216025	10PPB	16-JUL-2004 00:17	04SS242 (50000X), 04WS1132B (25000X), 04WS1255 (1000X)
3	fgf26	454284216026	20PPB	16-JUL-2004 00:52	04SS242 (25000X), 04WS1132B (12500X), 04WS1255 (1000X)
4	fgf27	454284216027	50PPB	16-JUL-2004 01:27	04SS242 (10000X), 04WS1132B (5000X), 04WS1255 (1000X)
5	fgf28	454284216028	62.5PPB	16-JUL-2004 02:02	04SS242 (8000X), 04WS1132B (4000X), 04WS1255 (1000X)
6	fgf29	454284216029	75PPB	16-JUL-2004 02:37	04SS242 (6667X), 04WS1132B (3333X), 04WS1255 (1000X)
7	fgf30	454284216030	100PPB	16-JUL-2004 03:11	04SS242 (5000X), 04WS1132B (2500X), 04WS1255 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	Units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	1.0737	1.0726	1.1622	1.3631	1.0851	1.2536	1.1696	AVRG	R		0.855758		ug/L	1.1686	9	0.0500	0.99	15	
Chloromethane	0.8807	0.8411	0.8114	0.8546	0.7490	0.8427	0.8072	AVRG	R		1.209695		ug/L	0.8267	5	0.1000	0.99	15	
Vinyl Chloride	0.3619m	0.3329	0.3340	0.3519	0.2915	0.3127	0.2761	AVRG	R		3.095962		ug/L	0.3230	10	0.0500	0.99	15	
Bromomethane	0.4982m	0.4582m	0.4163	0.5222	0.5050	0.5606	0.5219	AVRG	R		2.010061		ug/L	0.4975	9	0.0500	0.99	15	
Chloroethane	0.4051m	0.4033	0.3644	0.4374	0.3653	0.4250	0.3948	AVRG	R		2.504112		ug/L	0.3993	7	0.0500	0.99	15	
Trichlorofluoromethane	0.9010m	0.9386	0.9164	1.1064	0.9068	1.0129	0.9449	AVRG	R		1.040581		ug/L	0.9610	8	0.0500	0.99	15	
Acetone		0.5023	0.4328	0.3888	0.3670	0.3535	0.3407	AVRG	R		2.515613		ug/L	0.3975	15	0.0500	0.99	15	
Freon 113	0.4308m	0.5603	0.6513	0.7056	0.6284	0.6726	0.6587	AVRG	R		1.624983		ug/L	0.6154	15	0.0500	0.99	15	
1,1-Dichloroethene	0.4760m	0.5249m	0.5830m	0.6196	0.5483	0.5803	0.5705	AVRG	R		1.793716		ug/L	0.5575	8	0.0500	0.99	15	
Methylene Chloride		0.8081	0.7674	0.7708	0.7220	0.7209	0.7076	AVRG	R		1.334296		ug/L	0.7495	5	0.0500	0.99	15	
Carbon Disulfide	2.4801	2.3878	2.1515	2.1350	1.9489	1.9697	1.8868	AVRG	R		0.467920		ug/L	2.1371	11	0.0500	0.99	15	
MTBE	1.6948	1.7704	1.7659	1.7795	1.7050	1.7176	1.6823	AVRG	R		0.577778		ug/L	1.7308	2	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.6400m	0.6753	0.6910	0.7014	0.6542	0.6758	0.6666	AVRG	R		1.488003		ug/L	0.6720	3	0.0500	0.99	15	
Vinyl Acetate		1.9434	1.9911	1.9492	1.8471	1.7916	1.7456	AVRG	R		0.532480		ug/L	1.8780	5	0.0500	0.99	15	
1,1-Dichloroethane	1.2682	1.3421	1.3307	1.3621	1.2809	1.2726	1.2447	AVRG	R		0.769121		ug/L	1.3002	3	0.1000	0.99	15	
2-Butanone		0.6597	0.6495	0.6206	0.6013	0.5997	0.5777	AVRG	R		1.617971		ug/L	0.6181	5	0.0500	0.99	15	
2,2-Dichloropropane	0.6794	0.7671	0.8161	0.8814	0.7944	0.8449	0.8317	AVRG	R		1.246665		ug/L	0.8021	8	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.7155	0.7632	0.7341	0.7608	0.7188	0.7327	0.7304	AVRG	R		1.357808		ug/L	0.7365	3	0.0500	0.99	15	

* ICAL - OK
* ICV - OK

Flags used: m=manual integration for incomplete integration in Target
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

8260 S 1 CA

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By:

Instrument: MSVOA06 HP GCMS VOA 06 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Calnum: 454284216002 Name: I6M826

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 XRSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	1.2044	1.1872	1.2242	1.2381	1.1624	1.1752	1.1456	AVRG	R		0.839627		ug/L	1.1910	3	0.0500	0.99	15	
Bromochloromethane	0.4140	0.4087	0.4195	0.4338	0.4134	0.4238	0.4200	AVRG	R		2.386530		ug/L	0.4190	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.7169	0.8411	0.9135	0.9623	0.8845	0.9213	0.9009	AVRG	R		1.139978		ug/L	0.8772	9	0.0500	0.99	15	
1,1-Dichloropropene	0.4109	0.4714	0.5058	0.5503	0.4962	0.5342	0.5333	AVRG	R		1.998818		ug/L	0.5003	10	0.0500	0.99	15	
Carbon Tetrachloride	0.3309	0.4232	0.4832	0.5232	0.4793	0.5232	0.5235	AVRG	R		2.129874		ug/L	0.4695	15	0.0500	0.99	15	
1,2-Dichloroethane	0.5874	0.5676	0.5784	0.6056	0.5662	0.5833	0.5762	AVRG	R		1.722145		ug/L	0.5807	2	0.0500	0.99	15	
Benzene	1.3347	1.3943	1.4233	1.4308	1.3219	1.3601	1.3320	AVRG	R		0.729394		ug/L	1.3710	3	0.0500	0.99	15	
Trichloroethene	0.3858m	0.3940m	0.4166m	0.4390m	0.4072m	0.4344m	0.4337m	AVRG	R		2.404941		ug/L	0.4158	5	0.0500	0.99	15	
1,2-Dichloropropane	0.4183	0.4445	0.4563	0.4718	0.4425	0.4546	0.4636	AVRG	R		2.221042		ug/L	0.4502	4	0.0500	0.99	15	
Bromodichloromethane	0.5009	0.4898	0.5020	0.5304	0.5001	0.5148	0.5188	AVRG	R		1.968003		ug/L	0.5081	3	0.0500	0.99	15	
Dibromomethane	0.3565	0.3575	0.3664	0.3915	0.3713	0.3830	0.3859	AVRG	R		2.679937		ug/L	0.3731	4	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.6866	0.6974	0.7014	0.6592	0.6754	0.6682	AVRG	R		1.467630		ug/L	0.6814	2	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.5956	0.6229	0.6236	0.6645	0.6169	0.6295	0.6372	AVRG	R		1.594518		ug/L	0.6271	3	0.0500	0.99	15	
Toluene	0.8236	0.8592	0.8771	0.8957	0.8215	0.8405	0.8421	AVRG	R		1.174558		ug/L	0.8514	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.5184	0.5460	0.5520	0.5946	0.5562	0.5694	0.5651	AVRG	R		1.794067		ug/L	0.5574	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2191m	0.2322m	0.2352	0.2510	0.2387	0.2452	0.2466	AVRG	R		4.196727		ug/L	0.2383	5	0.0500	0.99	15	
2-Hexanone		0.6624	0.6888	0.6698	0.6609	0.6693	0.6554	AVRG	R		1.497544		ug/L	0.6678	2	0.0500	0.99	15	
1,3-Dichloropropane	0.7018	0.7537	0.7301	0.7442	0.7095	0.7350	0.7269	AVRG	R		1.372171		ug/L	0.7288	3	0.0500	0.99	15	
Tetrachloroethene	0.3721	0.4166	0.4408	0.4638	0.4326	0.4800	0.4710	AVRG	R		2.275089		ug/L	0.4395	8	0.0500	0.99	15	
Dibromochloromethane	0.5257	0.5542	0.5716	0.6062	0.5796	0.6110	0.6123	AVRG	R		1.723902		ug/L	0.5801	6	0.0500	0.99	15	
1,2-Dibromoethane	0.4289	0.4385	0.4496	0.4715	0.4436	0.4533	0.4547	AVRG	R		2.229218		ug/L	0.4486	3	0.0500	0.99	15	
Chlorobenzene	1.2533	1.2501	1.2517	1.2392	1.1899	1.2404	1.1911	AVRG	R		0.812470		ug/L	1.2308	2	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3862	0.4146	0.4245	0.4445	0.4294	0.4574	0.4510	AVRG	R		2.327466		ug/L	0.4297	6	0.0500	0.99	15	
Ethylbenzene	1.7496	1.8670	1.9405	1.9127	1.8064	1.8650	1.7843	AVRG	R		0.541564		ug/L	1.8465	4	0.0500	0.99	15	
m,p-Xylenes	0.6791	0.7408	0.7537	0.7609	0.7209	0.7596	0.7330	AVRG	R		1.359724		ug/L	0.7354	4	0.0500	0.99	15	
o-Xylene	0.6829	0.7170	0.7432	0.7653	0.7354	0.7618	0.7534	AVRG	R		1.356850		ug/L	0.7370	4	0.0500	0.99	15	
Styrene	1.1673	1.2334	1.2882	1.3187	1.2477	1.3020	1.2629	AVRG	R		0.793631		ug/L	1.2600	4	0.0500	0.99	15	
Bromoform	0.3500	0.3626	0.3930	0.4278	0.4115	0.4419	0.4417	AVRG	R		2.474934		ug/L	0.4041	9	0.1000	0.99	15	
Isopropylbenzene	3.1892	3.4905	3.6783	3.5764	3.3053	3.4583	3.3263	AVRG	R		0.291372		ug/L	3.4320	5	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	1.3992	1.4922	1.5127	1.4423	1.3807	1.4369	1.4146	AVRG	R		0.694547		ug/L	1.4398	3	0.3000	0.99	15	
1,2,3-Trichloropropane	0.3509	0.3736	0.3548	0.3551	0.3477	0.3564	0.3493	AVRG	R		2.813768		ug/L	0.3554	2	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

8260 S 1CAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06 Reviewed By:
Calnum: 454284216002 Name: I6M826 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Propylbenzene	4.1419	4.4670	4.6170	4.4260	4.1095	4.2583	3.9836	AVRG	R		0.233308		ug/L	4.2862	5	0.0500	0.99	15	
Bromobenzene	1.0713	1.0329	1.0727	1.0945	1.0468	1.1134	1.0959	AVRG	R		0.929913		ug/L	1.0754	3	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.7473	2.9449	3.0347	2.9773	2.8162	2.9464	2.8263	AVRG	R		0.344946		ug/L	2.8990	4	0.0500	0.99	15	
2-Chlorotoluene	3.0055	3.0507	3.1128	2.9545	2.8000	2.8977	2.8092	AVRG	R		0.339304		ug/L	2.9472	4	0.0500	0.99	15	
4-Chlorotoluene	2.7113	2.8898	2.8159	2.7390	2.5997	2.7022	2.5417	AVRG	R		0.368428		ug/L	2.7142	4	0.0500	0.99	15	
tert-Butylbenzene	2.1462m	2.3747	2.5766	2.5673m	2.4057	2.5399	2.4861	AVRG	R		0.409440		ug/L	2.4424	6	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.8163	2.9539	3.0174	2.9726	2.8257	2.9265	2.7801	AVRG	R		0.344955		ug/L	2.8989	3	0.0500	0.99	15	
sec-Butylbenzene	3.3429	3.8365	4.0691	3.9479	3.6873	3.9006	3.6516	AVRG	R		0.264791		ug/L	3.7766	6	0.0500	0.99	15	
para-Isopropyl Toluene	2.6210	2.9215	3.0915	3.0673	2.8824	3.0366	2.8655	AVRG	R		0.341699		ug/L	2.9265	6	0.0500	0.99	15	
1,3-Dichlorobenzene	1.7407	1.7699	1.7463	1.7473	1.6689	1.7247	1.6851	AVRG	R		0.579330		ug/L	1.7261	2	0.0500	0.99	15	
1,4-Dichlorobenzene	1.7991	1.8694	1.8235	1.7825	1.6881	1.7666	1.7242	AVRG	R		0.562093		ug/L	1.7791	3	0.0500	0.99	15	
n-Butylbenzene	2.7518	2.9491	3.0526	2.9539	2.7369	2.8695	2.6818	AVRG	R		0.350079		ug/L	2.8565	5	0.0500	0.99	15	
1,2-Dichlorobenzene	1.6342	1.6772	1.6991	1.6645	1.6108	1.6653	1.6137	AVRG	R		0.605280		ug/L	1.6521	2	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.2378	0.2591	0.2643	0.2569	0.2516	0.2595	0.2547	AVRG	R		3.924089		ug/L	0.2548	3	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.9295	0.9356	0.9119	0.9215	0.8979	0.9476	0.9077	AVRG	R		1.084986		ug/L	0.9217	2	0.0500	0.99	15	
Hexachlorobutadiene	0.4693	0.5047	0.5061	0.5313	0.5052	0.5561	0.5528	AVRG	R		1.930730		ug/L	0.5179	6	0.0500	0.99	15	
Naphthalene	1.8444	2.0165	2.1501	2.2121	2.1438	2.2348	2.1354	AVRG	R		0.474993		ug/L	2.1053	6	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8722	0.8967	0.8996	0.9473	0.9063	0.9748	0.9495	AVRG	R		1.085867		ug/L	0.9209	4	0.0500	0.99	15	
Dibromofluoromethane	0.7853	0.7830	0.7769	0.7718	0.7652	0.7432	0.7552	AVRG	R		1.300967		ug/L	0.7687	2	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4027	0.4115	0.4153	0.4146	0.4064	0.4110	0.4218	AVRG	R		2.427697		ug/L	0.4119	2	0.0500	0.99	15	
Toluene-d8	1.0139	1.0177	0.9981	1.0194	0.9912	0.9855	1.0002	AVRG	R		0.996292		ug/L	1.0037	1	0.0500	0.99	15	
Bromofluorobenzene	1.1015	1.1171	1.1022	1.0920	1.0566	1.0702	1.0765	AVRG	R		0.919121		ug/L	1.0880	2	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

8260 S ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB Injected : 16-JUL-2004 03:46
Seqnum : 454284216031 Filename : fgf31 Caltype : SOIL
Calnum : 454284216002 Caldate : 15-JUL-2004
Standards: 04WS1304A (5000X), 04WS1255 (1000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Freon 12	50.00000	42.88800	ug/L	-14	30
Chloromethane	50.00000	51.40060	ug/L	3	30
Vinyl Chloride	50.00000	52.57370	ug/L	5	20
Bromomethane	50.00000	53.19530	ug/L	6	30
Chloroethane	50.00000	52.77740	ug/L	6	30
Trichlorofluoromethane	50.00000	56.91360	ug/L	14	30
Dibromofluoromethane	50.00000	49.49890	ug/L	-1	30
1,2-Dichloroethane-d4	50.00000	49.18370	ug/L	-2	30
Toluene-d8	50.00000	48.87250	ug/L	-2	30
Bromofluorobenzene	50.00000	51.54410	ug/L	3	30

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1289103	0.64	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2173973	2.35	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1711419	-1.40	15.53	15.52	-0.01
1,4-Dichlorobenzene-d4	863989	784241	-9.23	19.83	19.83	0.00

MW 7/16/04

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MW 7/16/04

82605 ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB Injected : 16-JUL-2004 04:21
Seqnum : 454284216032 Filename : fgf32 Caltype : SOIL

Standards: 04WS1032D (5000X), 04WS1255 (1000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max Flags	
Acetone	454284216002	15-JUL-2004	50.00000	44.07880	ug/L	-12	40	
Freon 113	454284216002	15-JUL-2004	50.00000	58.00470	ug/L	16	30	
1,1-Dichloroethene	454284216002	15-JUL-2004	50.00000	50.26440	ug/L	1	20	
Methylene Chloride	454284216002	15-JUL-2004	50.00000	49.74400	ug/L	-1	30	
Carbon Disulfide	454284216002	15-JUL-2004	50.00000	46.53060	ug/L	-7	30	
MTBE	454284216002	15-JUL-2004	50.00000	55.12340	ug/L	10	30	
trans-1,2-Dichloroethene	454284216002	15-JUL-2004	50.00000	50.69130	ug/L	1	30	
Vinyl Acetate	454284216002	15-JUL-2004	50.00000	51.46700	ug/L	3	40	
1,1-Dichloroethane	454284216002	15-JUL-2004	50.00000	50.87750	ug/L	2	30	
2-Butanone	454284216002	15-JUL-2004	50.00000	47.53560	ug/L	-5	40	
2,2-Dichloropropane	454284216002	15-JUL-2004	50.00000	54.04750	ug/L	8	30	
cis-1,2-Dichloroethene	454284216002	15-JUL-2004	50.00000	51.17650	ug/L	2	30	
Chloroform	454284216002	15-JUL-2004	50.00000	50.61250	ug/L	1	20	
Bromochloromethane	454284216002	15-JUL-2004	50.00000	51.22050	ug/L	2	30	
1,1,1-Trichloroethane	454284216002	15-JUL-2004	50.00000	54.16150	ug/L	8	30	
1,1-Dichloropropene	454284216002	15-JUL-2004	50.00000	54.04810	ug/L	8	30	
Carbon Tetrachloride	454284216002	15-JUL-2004	50.00000	57.60700	ug/L	15	30	
1,2-Dichloroethane	454284216002	15-JUL-2004	50.00000	52.44180	ug/L	5	30	
Benzene	454284216002	15-JUL-2004	50.00000	53.54930	ug/L	7	30	
Trichloroethene	454284216002	15-JUL-2004	50.00000	50.60650	ug/L	1	30	
1,2-Dichloropropane	454284216002	15-JUL-2004	50.00000	51.36140	ug/L	3	20	
Bromodichloromethane	454284216002	15-JUL-2004	50.00000	57.29990	ug/L	15	30	
Dibromomethane	454284216002	15-JUL-2004	50.00000	52.84400	ug/L	6	30	
2-Chloroethylvinylether	453472922001	24-NOV-2003	50.00000	54.03690	ug/L	8	40 !	(NOT USED) NT/NJ
4-Methyl-2-Pentanone	454284216002	15-JUL-2004	50.00000	49.17190	ug/L	-2	40	
cis-1,3-Dichloropropene	454284216002	15-JUL-2004	50.00000	52.91370	ug/L	6	30	
Toluene	454284216002	15-JUL-2004	50.00000	53.43480	ug/L	7	20	
trans-1,3-Dichloropropene	454284216002	15-JUL-2004	50.00000	50.50110	ug/L	1	30	
1,1,2-Trichloroethane	454284216002	15-JUL-2004	50.00000	52.94790	ug/L	6	30	
2-Hexanone	454284216002	15-JUL-2004	50.00000	48.75190	ug/L	-2	40	
1,3-Dichloropropane	454284216002	15-JUL-2004	50.00000	52.21420	ug/L	4	30	
Tetrachloroethene	454284216002	15-JUL-2004	50.00000	54.33470	ug/L	9	30	
Dibromochloromethane	454284216002	15-JUL-2004	50.00000	51.55190	ug/L	3	30	
1,2-Dibromoethane	454284216002	15-JUL-2004	50.00000	53.48800	ug/L	7	30	
Chlorobenzene	454284216002	15-JUL-2004	50.00000	50.49870	ug/L	1	30	
1,1,1,2-Tetrachloroethane	454284216002	15-JUL-2004	50.00000	52.25390	ug/L	5	30	
Ethylbenzene	454284216002	15-JUL-2004	50.00000	52.97010	ug/L	6	20	
m,p-Xylenes	454284216002	15-JUL-2004	100.0000	104.6006	ug/L	5	30	
o-Xylene	454284216002	15-JUL-2004	50.00000	52.86860	ug/L	6	30	
Styrene	454284216002	15-JUL-2004	50.00000	53.70610	ug/L	7	30	
Bromoform	454284216002	15-JUL-2004	50.00000	53.67550	ug/L	7	30	
Isopropylbenzene	454284216002	15-JUL-2004	50.00000	47.02620	ug/L	-6	30	
1,1,2,2-Tetrachloroethane	454284216002	15-JUL-2004	50.00000	49.53570	ug/L	-1	30	
1,2,3-Trichloropropane	454284216002	15-JUL-2004	50.00000	49.62080	ug/L	-1	30	
Propylbenzene	454284216002	15-JUL-2004	50.00000	50.84610	ug/L	2	30	
Bromobenzene	454284216002	15-JUL-2004	50.00000	51.34630	ug/L	3	30	
1,3,5-Trimethylbenzene	454284216002	15-JUL-2004	50.00000	52.33650	ug/L	5	30	

NO 716604

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Page 1 of 2

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8260 5 ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB Injected : 16-JUL-2004 04:21
Seqnum : 454284216032 Filename : fgf32 Caltype : SOIL

Standards: 04WS1032D (5000X), 04WS1255 (1000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max Flags	
2-Chlorotoluene	454284216002	15-JUL-2004	50.00000	50.47540	ug/L	1	30	
4-Chlorotoluene	454284216002	15-JUL-2004	50.00000	51.23060	ug/L	2	30	
tert-Butylbenzene	454284216002	15-JUL-2004	50.00000	53.95090	ug/L	8	30	
1,2,4-Trimethylbenzene	454284216002	15-JUL-2004	50.00000	52.42190	ug/L	5	30	
sec-Butylbenzene	454284216002	15-JUL-2004	50.00000	53.12120	ug/L	6	30	
para-Isopropyl Toluene	454284216002	15-JUL-2004	50.00000	51.72850	ug/L	3	30	
1,3-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.20300	ug/L	2	30	
1,4-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.25420	ug/L	3	30	
n-Butylbenzene	454284216002	15-JUL-2004	50.00000	54.13300	ug/L	8	30	
1,2-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.07620	ug/L	2	30	
1,2-Dibromo-3-Chloropropane	454284216002	15-JUL-2004	50.00000	51.67830	ug/L	3	30	
1,2,4-Trichlorobenzene	454284216002	15-JUL-2004	50.00000	54.32950	ug/L	9	30	
Hexachlorobutadiene	454284216002	15-JUL-2004	50.00000	54.79390	ug/L	10	30	
Naphthalene	454284216002	15-JUL-2004	50.00000	56.70500	ug/L	13	30	
1,2,3-Trichlorobenzene	454284216002	15-JUL-2004	50.00000	55.73370	ug/L	11	30	
Dibromofluoromethane	454284216002	15-JUL-2004	50.00000	48.83090	ug/L	-2	30	(NOT USED)
1,2-Dichloroethane-d4	454284216002	15-JUL-2004	50.00000	49.96750	ug/L	0	30	(NOT USED)
Toluene-d8	454284216002	15-JUL-2004	50.00000	50.67480	ug/L	1	30	(NOT USED)
Bromofluorobenzene	454284216002	15-JUL-2004	50.00000	48.14140	ug/L	-4	30	(NOT USED)

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1352725	5.61	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2194753	3.33	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1773604	2.18	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	901108	4.30	19.83	19.83	0.00

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CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 40PPB IDF : 1.0
Seqnum : 454314501002 Filename : fh502 Injected : 05-AUG-2004 09:57
Calnum : 454284216002 Caldate : 15-JUL-2004 Caltype : SOIL
Standards: 04SS250 (12500X), 04WS1422A (6250X), 04WS1255 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	1.1686	1.3583	40.00000	46.49460	ug/L	16	30	0.0500	
Chloromethane	0.8267	0.8771	40.00000	42.44000	ug/L	6	30	0.1000	
Vinyl Chloride	0.3230	0.3204	40.00000	39.68380	ug/L	-1	20	0.0500	
Bromomethane	0.4975	0.4684	40.00000	37.65830	ug/L	-6	30	0.0500	
Chloroethane	0.3993	0.3928	40.00000	39.34720	ug/L	-2	30	0.0500	
Trichlorofluoromethane	0.9610	1.0801	40.00000	44.95870	ug/L	12	30	0.0500	
Acetone	0.3975	0.3372	40.00000	33.92590	ug/L	-15	40	0.0500	
Freon 113	0.6154	0.6039	40.00000	39.25000	ug/L	-2	30	0.0500	
1,1-Dichloroethene	0.5575	0.5465	40.00000	39.21260	ug/L	-2	20	0.0500	
Methylene Chloride	0.7495	0.6753	40.00000	36.04320	ug/L	-10	30	0.0500	
Carbon Disulfide	2.1371	1.9155	40.00000	35.85160	ug/L	-10	30	0.0500	
MTBE	1.7308	1.3453	40.00000	31.09080	ug/L	-22	30	0.0500	!c-
trans-1,2-Dichloroethene	0.6720	0.6322	40.00000	37.62810	ug/L	-6	30	0.0500	
Vinyl Acetate	1.8780	1.5241	40.00000	32.46260	ug/L	-19	40	0.0500	
1,1-Dichloroethane	1.3002	1.1260	40.00000	34.64050	ug/L	-13	30	0.1000	
2-Butanone	0.6181	0.4639	40.00000	30.02560	ug/L	-25	40	0.0500	
2,2-Dichloropropane	0.8021	0.7669	40.00000	38.24190	ug/L	-4	30	0.0500	
cis-1,2-Dichloroethene	0.7365	0.6702	40.00000	36.40100	ug/L	-9	30	0.0500	
Chloroform	1.1910	1.0503	40.00000	35.27580	ug/L	-12	20	0.0500	
Bromochloromethane	0.4190	0.3870	40.00000	36.94350	ug/L	-8	30	0.0500	
1,1,1-Trichloroethane	0.8772	0.7976	40.00000	36.36970	ug/L	-9	30	0.0500	
1,1-Dichloropropene	0.5003	0.4963	40.00000	39.67930	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.4695	0.4741	40.00000	40.39430	ug/L	1	30	0.0500	
1,2-Dichloroethane	0.5807	0.4905	40.00000	33.79110	ug/L	-16	30	0.0500	
Benzene	1.3710	1.3148	40.00000	38.36110	ug/L	-4	30	0.0500	
Trichloroethene	0.4158	0.3920	40.00000	37.70800	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.4502	0.3953	40.00000	35.11810	ug/L	-12	20	0.0500	
Bromodichloromethane	0.5081	0.4809	40.00000	37.86040	ug/L	-5	30	0.0500	
Dibromomethane	0.3731	0.3419	40.00000	36.65350	ug/L	-8	30	0.0500	
4-Methyl-2-Pentanone	0.6814	0.5127	40.00000	30.09880	ug/L	-25	40	0.0500	
cis-1,3-Dichloropropene	0.6271	0.5777	40.00000	36.84460	ug/L	-8	30	0.0500	
Toluene	0.8514	0.8065	40.00000	37.88990	ug/L	-5	20	0.0500	
trans-1,3-Dichloropropene	0.5574	0.4992	40.00000	35.82640	ug/L	-10	30	0.0500	
1,1,2-Trichloroethane	0.2383	0.2151	40.00000	36.10520	ug/L	-10	30	0.0500	
2-Hexanone	0.6678	0.5041	40.00000	30.19440	ug/L	-25	40	0.0500	
1,3-Dichloropropane	0.7288	0.6368	40.00000	34.94980	ug/L	-13	30	0.0500	
Tetrachloroethene	0.4395	0.4839	40.00000	44.03420	ug/L	10	30	0.0500	
Dibromochloromethane	0.5801	0.5201	40.00000	35.86710	ug/L	-10	30	0.0500	
1,2-Dibromoethane	0.4486	0.4038	40.00000	36.00390	ug/L	-10	30	0.0500	
Chlorobenzene	1.2308	1.1881	40.00000	38.61150	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4297	0.4142	40.00000	38.55960	ug/L	-4	30	0.0500	
Ethylbenzene	1.8465	1.8004	40.00000	39.00140	ug/L	-2	20	0.0500	
m,p-Xylenes	0.7354	0.7342	80.00000	79.86810	ug/L	0	30	0.0500	
o-Xylene	0.7370	0.7110	40.00000	38.58750	ug/L	-4	30	0.0500	
Styrene	1.2600	1.2049	40.00000	38.25030	ug/L	-4	30	0.0500	
Bromoform	0.4041	0.3913	40.00000	38.73440	ug/L	-3	30	0.1000	

!=warning -=low bias c=CCV

AL 08/23/04

MW 8/5/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 40PPB IDF : 1.0
Seqnum : 454314501002 Filename : fh502 Injected : 05-AUG-2004 09:57
Calnum : 454284216002 Caldate : 15-JUL-2004 Caltype : SOIL
Standards: 04SS250 (12500X), 04WS1422A (6250X), 04WS1255 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Isopropylbenzene	3.4320	3.2985	40.00000	38.44350	ug/L	-4	30	0.0500	
1,1,2,2-Tetrachloroethane	1.4398	1.2292	40.00000	34.14840	ug/L	-15	30	0.3000	
1,2,3-Trichloropropane	0.3554	0.2965	40.00000	33.36880	ug/L	-17	30	0.0500	
Propylbenzene	4.2862	4.1236	40.00000	38.48320	ug/L	-4	30	0.0500	
Bromobenzene	1.0754	1.0163	40.00000	37.80190	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	2.8990	2.7243	40.00000	37.58930	ug/L	-6	30	0.0500	
2-Chlorotoluene	2.9472	2.7030	40.00000	36.68540	ug/L	-8	30	0.0500	
4-Chlorotoluene	2.7142	2.4815	40.00000	36.57030	ug/L	-9	30	0.0500	
tert-Butylbenzene	2.4424	2.6097	40.00000	42.74030	ug/L	7	30	0.0500	
1,2,4-Trimethylbenzene	2.8989	2.6523	40.00000	36.59680	ug/L	-9	30	0.0500	
sec-Butylbenzene	3.7766	3.6609	40.00000	38.77540	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	2.9265	2.8203	40.00000	38.54720	ug/L	-4	30	0.0500	
1,3-Dichlorobenzene	1.7261	1.6939	40.00000	39.25310	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	1.7791	1.7608	40.00000	39.58950	ug/L	-1	30	0.0500	
n-Butylbenzene	2.8565	2.6871	40.00000	37.62830	ug/L	-6	30	0.0500	
1,2-Dichlorobenzene	1.6521	1.5938	40.00000	38.58900	ug/L	-4	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2548	0.1978	40.00000	31.04330	ug/L	-22	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.9217	0.9108	40.00000	39.52740	ug/L	-1	30	0.0500	
Hexachlorobutadiene	0.5179	0.5558	40.00000	42.92550	ug/L	7	30	0.0500	
Naphthalene	2.1053	1.6819	40.00000	31.95560	ug/L	-20	30	0.0500	
1,2,3-Trichlorobenzene	0.9209	0.8660	40.00000	37.61480	ug/L	-6	30	0.0500	
Dibromofluoromethane	0.7687	0.7179	50.00000	46.69650	ug/L	-7	30	0.0500	
1,2-Dichloroethane-d4	0.4119	0.3680	50.00000	44.66880	ug/L	-11	30	0.0500	
Toluene-d8	1.0037	0.9903	50.00000	49.33110	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.0880	0.9869	50.00000	45.35180	ug/L	-9	30	0.0500	

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1416203	10.56	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2245517	5.72	10.51	10.50	-0.01
Chlorobenzene-d5	1735753	1825744	5.18	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	938025	8.57	19.83	19.82	-0.01

!=warning -=low bias c=CCV
Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 05-AUG-2004
Sequence: 454314501 (fh5)
Instrument ID: MSVOA06

ICAL Filename: fgf27
Date Analyzed: 16-JUL-2004
Time Analyzed: 01:27

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1280892	9.02	2124066	10.51	1735753	15.53	863989	19.83
LOWER LIMIT	640446	8.52	1062033	10.01	867877	15.03	431995	19.33
UPPER LIMIT	2561784	9.52	4248132	11.01	3471506	16.03	1727978	20.33

TYPE	SAMPLE	#								
CCV	40PPB	002	1416203	9.02	2245517	10.50	1825744	15.53	938025	19.82
LCS	QC260267	003	1551285	9.02	2448439	10.50	2002717	15.53	1077899	19.82
BLANK	QC260268	005	1342735	9.01	2255491	10.50	1841343	15.52	876852	19.82
PREPBLK	QC260287	006	1339176	9.01	2255531	10.50	1929146	15.52	892143	19.82
SAMPLE	173840-001	007	1282854	9.02	2201854	10.50	1803170	15.53	831246	19.83
MSS	173765-001	008	1509457	9.01	2362691	10.50	1942504	15.53	1018367	19.82
MS	QC260269	009	1733403	9.02	2664387	10.51	2268599	15.53	1173067	19.83
MSD	QC260270	010	1792436	9.02	2765322	10.51	2251417	15.53	1171103	19.82
SAMPLE	173852-010	012	1588408	9.02	2563593	10.51	2030020	15.53	958923	19.82
SAMPLE	173852-011	013	1482563	9.01	2465864	10.50	1948819	15.52	944040	19.83
SAMPLE	173852-015	014	1486150	9.02	2440893	10.51	1986944	15.53	960789	19.82
SAMPLE	173852-016	015	1331220	9.02	2137665	10.51	1665416	15.53	784898	19.83
SAMPLE	173857-001	016	1414578	9.02	2340975	10.51	1897601	15.53	919452	19.83
SAMPLE	173857-002	017	1372030	9.02	2326547	10.51	1897269	15.53	904722	19.83

8260S ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 454284216 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 15-JUL-2004

Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch Matrix Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	fgf01	X	IB	15-JUL-2004 08:56	1.0					1	
002	fgf02	TUN	BFB	15-JUL-2004 09:32	1.0	1				2 not used	
003	fgf03	CCV	25PPB	15-JUL-2004 09:56	1.0	1	5000			3 4 5 1 cc-	
004	fgf04	TUN	BFB	15-JUL-2004 11:05	1.0					6	
005	fgf05	CCV	25PPB	15-JUL-2004 11:24	1.0	2	5000			3 4 5 1 cc-	
006	fgf06	TUN	BFB adj tune	15-JUL-2004 12:44	1.0					6	
007	fgf07	CCV	25PPB	15-JUL-2004 13:03	1.0	1	5000			3 4 5 1 cc-	
008	fgf08	TUN	BFB did trip	15-JUL-2004 14:21	1.0					6	
009	fgf09	CCV	25PPB	15-JUL-2004 14:42	1.0	2	5000			3 4 5 1 cc-	
010	fgf10	X	IB	15-JUL-2004 15:48	1.0					1	
011	fgf11	TUN	BFB	15-JUL-2004 16:30	1.0					6	
012	fgf12	X	IB	15-JUL-2004 16:46	1.0					1	
013	fgf13	X	CALIB IB H_2O	15-JUL-2004 17:20	1.0					1	
014	fgf14	ICAL	0.5/1PPB H_2O	15-JUL-2004 17:55	1.0					3 4 5 1 t	
015	fgf15	ICAL	5PPB H_2O	15-JUL-2004 18:30	1.0					3 4 5 1 t	
016	fgf16	ICAL	10PPB	15-JUL-2004 19:05	1.0					3 4 5 1 t	
017	fgf17	ICAL	20PPB	15-JUL-2004 19:40	1.0					3 4 5 1 t	
018	fgf18	ICAL	50PPB	15-JUL-2004 20:15	1.0					3 4 5 1 t	
019	fgf19	ICAL	75PPB	15-JUL-2004 20:49	1.0					3 4 5 1 t	
020	fgf20	ICAL	100PPB	15-JUL-2004 21:24	1.0					3 4 5 1 t	
021	fgf21	ICV	50PPB	15-JUL-2004 21:59	1.0		5000			7 1	
022	fgf22	ICV	50PPB	15-JUL-2004 22:34	1.0		5000			8 1	
023	fgf23	X	CALIB IB Soil	15-JUL-2004 23:08	1.0					1	
024	fgf24	ICAL	5PPB Soil	15-JUL-2004 23:42	1.0					3 4 1	
025	fgf25	ICAL	10PPB	16-JUL-2004 00:17	1.0					3 4 1	
026	fgf26	ICAL	20PPB	16-JUL-2004 00:52	1.0					3 4 1	
027	fgf27	ICAL	50PPB	16-JUL-2004 01:27	1.0					3 4 1	
028	fgf28	ICAL	62.5PPB	16-JUL-2004 02:02	1.0					3 4 1	
029	fgf29	ICAL	75PPB	16-JUL-2004 02:37	1.0					3 4 1	
030	fgf30	ICAL	100PPB	16-JUL-2004 03:11	1.0					3 4 1	

Stds used: 1=04WS1255 2=04WS0483 3=04SS242 4=04WS1132B 5=04WS1278A 6=04WS1238 7=04WS1304A 8=04WS1032C 9=04WS1032D

Flags used: -=low bias cc=CCV CCC failure t=tune failure * ICAL - OK

* ICV - OK

Analyst: BLO Date: 7/16/04

Page 1 of 2

7/16/04

8260S ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 454284216 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 15-JUL-2004

Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
031	fgf31	ICV	50PPB		Soil	16-JUL-2004 03:46	1.0	5000			7 1	
032	fgf32	ICV	50PPB		↓	16-JUL-2004 04:21	1.0	5000			9 1	
033	fgf33	X	IB			16-JUL-2004 04:56	1.0				1	
034	fgf34	X	IB			16-JUL-2004 05:31	1.0				1	
035	fgf35	X	IB			16-JUL-2004 06:06	1.0				1	

Stds used: 1=04WS1255 2=04WS0483 3=04SS242 4=04WS1132B 5=04WS1278A 6=04WS1238 7=04WS1304A 8=04WS1032C 9=04WS1032D

Flags used: -=low bias cc=CCV CCC failure t=tune failure

Analyst: RLQ Date: 7/16/04

Page 2 of 2

1 - 2

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 454314501 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 05-AUG-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	fh501	TUN	BFB			05-AUG-2004 09:41	1.0						1	
002	fh502	CCV	40PPB			05-AUG-2004 09:57	1.0			5000			2 3 4	
003	fh503	LCS	QC260267	93511	Soil	05-AUG-2004 10:46	1.0	1		5000			5 6 4	
004	fh504	X	IB			05-AUG-2004 11:21	1.0						4	
005	fh505	BLANK	QC260268	93511	Soil	05-AUG-2004 11:56	1.0	1		5000			4	
006	fh506	PREPBLK	QC260287	93511	TCLP L	05-AUG-2004 12:31	1.0	1		5000			4 8/4Low	
007	fh507	SAMPLE	173840-001	93511	Soil	05-AUG-2004 13:06	1.515			5000	B		4	
008	fh508	MSS	173765-001	93511	TCLP L	05-AUG-2004 13:41	0.92	1		5000	A		4	
009	fh509	MS	QC260269	93511	TCLP L	05-AUG-2004 14:16	0.92	1	5	5000			5 6 4	
010	fh510	MSD	QC260270	93511	TCLP L	05-AUG-2004 14:51	0.92	1	4	5000			5 6 4	
011	fh511	X	IB			05-AUG-2004 15:26	1.0						4	
012	fh512	SAMPLE	173852-010	93511	Soil	05-AUG-2004 16:01	0.9259			5000	A		4	
013	fh513	SAMPLE	173852-011	93511	Soil	05-AUG-2004 16:36	0.9434			5000	B		4	
014	fh514	SAMPLE	173852-015	93511	Soil	05-AUG-2004 17:10	0.9259			5000			4	
015	fh515	SAMPLE	173852-016	93511	Soil	05-AUG-2004 17:46	0.7813			5000			4	
016	fh516	SAMPLE	173857-001	93511	Soil	05-AUG-2004 18:21	0.9804			5000	A		4	
017	fh517	SAMPLE	173857-002	93511	Soil	05-AUG-2004 18:55	0.9434			5000			4	
018	fh518	X	IB			05-AUG-2004 19:30	1.0						4	
019	fh519	X	821-001			05-AUG-2004 20:05	1.0				A		4 Screen run, RR 25x high HC	
020	fh520	X	IB			05-AUG-2004 21:40	1.0						4	
021	fh521	X	IB			05-AUG-2004 21:14	1.0						4	
022	fh522	X	IB			05-AUG-2004 21:49	1.0						4	
023	fh523	X	6A			05-AUG-2004 22:24	1.0						4	
024	fh524	X	6B			05-AUG-2004 22:59	1.0						4	

* ICAL - OK, ICV - OK
* CCV - OK, USACE - MTBE ↓, 12DBCIP ↓

Stds used: 1=04WS1238 2=04SS250 3=04WS1422A 4=04WS1255 5=04WS1387A 6=04WS1384A

Analyst: TKD Date: 8/6/04

Page 1 of 1

08/04/04

REPORTING SUMMARY FOR 173857 8260 Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F2	C1	V2	B1	C1	F1	A1	F1	D1	M1	C1	M1	D1	V2	D1	M1	D1	D1	T1	B1	T1	D1	C1	D1	B1	T1	D1	B1	D1	M1	D1	B1	D1	T1	H1	D1	P1	D1	E1	C1	T1	E1	X1	X1	S1	T1	I1	P1	T1	P1	B1	T1	C1	C1	B1	T1	B1	C1	D1	D1	B1	D1	D1	T1	H1	N1
				C1	L1	C1	R1	L1	C1	C1	C1	C1	T1	D1	T1	C1	A1	C1	E1	C1	C1	C1	R1	C1	C1	T1	C1	Z1	C1	C1	D1	B1	I1	C1	Z1	C1	C1	X1	C1	C1	B1	D1	L1	C1	B1	Y1	Y1	T1	B1	P1	C1	C1	B1	R1	M1	L1	L1	T1	M1	T1	Y1	C1	C1	T1	C1	B1	C1	C1	A1
				1M1		M1	E1	1E1	E1	1E1	L1	S1	B1	E1		A1	K1	E1	P1	L1	C1	A1	P1	C1	A1		E1	P1	C1	M1	B1	P1	M1	P1	A1	O1	P1	E1	C1	B1	B1	1Z1	L1	L1	Y1	M1	B1	A1	P1	Z1	B1	B1	B1	B1	B1	B1	M1	B1	B1	B1	B1	C1	B1	B1	P1
				2E1		E1	A1	1	1	1N1		E1	1		1		1A1	M1	L1	1	1L1	1			A1	M1	A1	K1	1E1	1	1	2A1		M1		Z1	1		M1	O1		E1	Z1		R1	N1	Z1	1	Z1	Z1	Z1	1	Z1	P1	Z1	Z1	Z1	P1	1	U1	H1
										2				2			3						2		2			2	3	2		3																											2	3		2	2			2	3	3			
173857-001	MSVOA06	08/05/04	18:21	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
173857-002	MSVOA06	08/05/04	18:55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260267	MSVOA06	08/05/04	10:46		+	+	+	+		+		+	+	+	+	+		+	+	+		+		+		+	+	+	+	+	+		+	+	+	+	+	+		+		+		+	+	+	+	+	+		+		+	+	+	+	+	+	+													
QC260268	MSVOA06	08/05/04	11:56	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260269	MSVOA06	08/05/04	14:16		+	+	+	+		+		+	+	+	+	+		+	+	+		+		+		+	+	+	+	+	+		+	+	+	+	+	+		+		+		+	+	+	+	+	+		+		+	+	+	+	+	+	+													
QC260270	MSVOA06	08/05/04	14:51		+	+	+	+		+		+	+	+	+	+		+	+	+		+		+		+	+	+	+	+	+		+	+	+	+	+	+		+		+		+	+	+	+	+	+		+		+	+	+	+	+	+	+													
QC260287	MSVOA06	08/05/04	12:31																																																																								

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 8/5/04

Prepped by: Zc

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	173765-1		A		6	TCLP Leachate MSS/MS/MSD 1x	8/13	8/6
2	PREP BLK TCLP 8/4/04					1X		
3	173852-10	5.4	A					
4	173857-1	5.1						
5	-2	5.3						
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	173840-1	3.3	B		6		8/6	8/16 RUSH
2	173852-11	3.8	B					
3	-15	5.4	B					
4	-16	6.4	B					
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet

EPA 8260	VOA_02	VOA_03	VOA_05	VOA_06
Soil MDLs (ug/Kg)	6/02/04	1/07/04	8/16/04	2/13/04
1,1,1,2-Tetrachloroethane	0.19	0.67	1.1	0.11
1,1,1-Trichloroethane	0.15	0.50	0.41	0.13
1,1,2,2-Tetrachloroethane	0.37	0.48	0.51	0.08
1,1,2-Trichloroethane	0.36	0.55	0.87	0.25
1,1-Dichloroethane	0.27	0.45	1.1	0.09
1,1-Dichloroethene	0.32	0.71	0.85	0.45
1,1-Dichloropropene	0.18	0.90	0.62	0.08
1,2,3-Trichlorobenzene	0.13	2.5	0.73	0.16
1,2,3-Trichloropropane	0.48	0.91	0.56	0.18
1,2,4-Trichlorobenzene	0.31	2.7	0.61	0.07
1,2,4-Trimethylbenzene	0.15	1.8	0.50	0.23
1,2-Dibromo-3-chloropropane	0.33	0.57	0.92	0.56
1,2-Dibromoethane (EDB)	0.22	0.35	0.30	0.10
1,2-Dichlorobenzene	0.15	0.49	0.56	0.11
1,2-Dichloroethane	0.26	0.66	0.58	0.09
1,2-Dichloropropane	0.28	0.44	0.61	0.10
1,3,5-Trimethylbenzene	0.19	1.2	0.53	0.07
1,3-Dichlorobenzene	0.19	0.32	0.61	0.13
1,3-Dichloropropane	0.22	0.41	0.64	0.05
1,4-Dichlorobenzene	0.22	0.57	0.71	0.12
2-Butanone	0.51	1.6	1.4	0.12
2,2-Dichloropropane	0.24	0.86	0.83	0.06
2-Chloroethylvinylether	- -	- -	- -	- -
2-Chlorotoluene	0.14	0.60	0.62	0.09
2-Hexanone	0.24	0.50	0.77	0.12
4-Chlorotoluene	0.20	0.62	0.72	0.10
4-Methyl-2-pentanone	0.37	0.73	0.77	0.25
Acetone	1.2	2.9	5.2	1.0
Benzene	0.14	0.43	0.94	0.06
Bromobenzene	0.29	0.37	0.51	0.18
Bromochloromethane	0.23	0.74	0.46	0.13
Bromodichloromethane	0.13	0.41	0.66	0.13
Bromoform	0.21	0.38	0.64	0.18

EPA 8260 (continued)	**VOA_02**	**VOA_03**	**VOA_05**	**VOA_06**
Soil MDLs (ug/Kg)	6/02/04	1/07/04	8/16/04	2/13/04
Bromomethane	0.44	0.87	1.4	0.27
Carbon disulfide	1.1	0.92	0.84	0.10
Carbon tetrachloride	0.38	0.45	0.75	0.36
Chlorobenzene	0.14	0.39	0.60	0.08
Chloroethane	0.44	0.86	1.2	0.26
Chloroform	0.26	0.44	0.74	0.12
Chloromethane	0.34	0.90	1.7	0.12
cis-1,2-DCE	0.30	0.31	0.49	0.10
cis-1,3-Dichloropropene	0.22	0.41	0.76	0.26
Dibromochloromethane	0.15	0.40	0.69	0.07
Dibromomethane	0.22	0.69	0.98	0.16
Ethylbenzene	0.12	0.49	0.58	0.07
Freon 12	0.12	1.4	1.0	0.08
Freon 113	0.13	0.73	0.66	0.11
Hexachlorobutadiene	0.27	0.89	1.3	0.08
Isopropylbenzene	0.18	0.58	0.42	0.10
m,p-Xylenes	0.37	1.3	1.4	0.18
MTBE	0.21	0.58	0.70	0.12
Methylene chloride	0.63	1.1	0.71	0.65
n-Butylbenzene	0.18	2.2	0.52	0.11
Naphthalene	0.19	2.5	0.34	0.15
o-Xylene	0.23	0.77	0.38	0.09
para-Isopropyltoluene	0.16	1.2	0.47	0.12
Propylbenzene	0.16	0.53	0.59	0.08
sec-Butylbenzene	0.21	0.83	0.56	0.07
Styrene	0.21	0.46	0.30	0.06
TCE	0.22	1.1	1.3	0.11
tert-Butylbenzene	0.26	0.56	0.65	0.07
Tetrachloroethene	0.42	0.58	0.77	0.09
Toluene	0.16	0.59	0.52	0.13
trans-1,2-DCE	0.30	0.54	0.78	0.20
trans-1,3-Dichloropropene	0.27	0.54	0.54	0.09
Trichlorofluoromethane	0.15	0.73	1.4	0.15
Vinyl acetate	0.43	0.68	0.50	0.07
Vinyl chloride	0.30	1.9	0.47	0.32

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA06	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 454314501016	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: fh516	Batchnum	: 93511	Injected	: 05-AUG-2004 18:21
IDF	: 0.9804	PDF	: 1.0	Units	: ug/Kg
Calnum	: 454284216002	Caldate	: 15-JUL-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=fh505	Flags
Freon 12	ND		9.8		
Chloromethane	ND		9.8	0.21	
Vinyl Chloride	ND		9.8		
Bromomethane	ND		9.8		
Chloroethane	ND		9.8		
Trichlorofluoromethane	ND		4.9		
Acetone	ND		20	1.3	
Freon 113	ND		4.9		
1,1-Dichloroethene	ND		4.9		
Methylene Chloride	ND		20	0.81	
Carbon Disulfide	ND		4.9		
MTBE	ND		4.9		
trans-1,2-Dichloroethene	ND		4.9		
Vinyl Acetate	ND		49		
1,1-Dichloroethane	ND		4.9		
2-Butanone	ND		9.8		
cis-1,2-Dichloroethene	ND		4.9		
2,2-Dichloropropane	ND		4.9		
Chloroform	ND		4.9		
Bromochloromethane	ND		4.9		
1,1,1-Trichloroethane	ND		4.9		
1,1-Dichloropropene	ND		4.9		
Carbon Tetrachloride	ND		4.9		
1,2-Dichloroethane	ND		4.9		
Benzene	ND		4.9		
Trichloroethene	ND		4.9		
1,2-Dichloropropane	ND		4.9		
Bromodichloromethane	ND		4.9		
Dibromomethane	ND		4.9		
4-Methyl-2-Pentanone	ND		9.8		
cis-1,3-Dichloropropene	ND		4.9		
Toluene	ND		4.9		
trans-1,3-Dichloropropene	ND		4.9		
1,1,2-Trichloroethane	ND		4.9		
2-Hexanone	ND		9.8		
1,3-Dichloropropane	ND		4.9		
Tetrachloroethene	ND		4.9		
Dibromochloromethane	ND		4.9		
1,2-Dibromoethane	ND		4.9		
Chlorobenzene	ND		4.9		
1,1,1,2-Tetrachloroethane	ND		4.9		
Ethylbenzene	ND		4.9		
m,p-Xylenes	ND		4.9		

Analyst: TBD Date: 8/6/04 Reviewer: LW Date: 8-6-04
Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA06	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 454314501016	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: fh516	Batchnum	: 93511	Injected	: 05-AUG-2004 18:21
IDF	: 0.9804	PDF	: 1.0	Units	: ug/Kg
Calnum	: 454284216002	Caldate	: 15-JUL-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=fh505	Flags
o-Xylene	ND		4.9		
Styrene	ND		4.9		
Bromoform	ND		4.9		
Isopropylbenzene	ND		4.9		
1,1,2,2-Tetrachloroethane	ND		4.9		
1,2,3-Trichloropropane	ND		4.9		
Propylbenzene	ND		4.9		
Bromobenzene	ND		4.9		
1,3,5-Trimethylbenzene	ND		4.9		
2-Chlorotoluene	ND		4.9		
4-Chlorotoluene	ND		4.9		
tert-Butylbenzene	ND		4.9		
1,2,4-Trimethylbenzene	ND		4.9		
sec-Butylbenzene	ND		4.9		
para-Isopropyl Toluene	ND		4.9		
1,3-Dichlorobenzene	ND		4.9		
1,4-Dichlorobenzene	ND		4.9		
n-Butylbenzene	ND		4.9		
1,2-Dichlorobenzene	ND		4.9		
1,2-Dibromo-3-Chloropropane	ND		4.9		
1,2,4-Trichlorobenzene	ND		4.9		
Hexachlorobutadiene	ND		4.9		
Naphthalene	ND		4.9	0.16	
1,2,3-Trichlorobenzene	ND		4.9		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	49.02	48.49	99	80-120	
1,2-Dichloroethane-d4	49.02	45.75	93	80-120	
Toluene-d8	49.02	47.30	96	80-120	
Bromofluorobenzene	49.02	46.23	94	80-123	

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1414578	10.44	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2340975	10.21	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1897601	9.32	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	919452	6.42	19.83	19.83	0.00

Analyst: BLO Date: 8/6/04 Reviewer: LW Date: 8-6-04
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D
Report Date: 05-Aug-2004 19:24

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 18:21 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : S,173857-001
Misc Info : 93511,5.1/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	4.522	4.502	(0.501)	1427	0.10145	0.1014(a)
7 Acetone	43	5.655	5.645	(0.627)	13217	1.17529	1.1752
10 Methylene Chloride	84	6.590	6.590	(0.730)	66981	3.15901	3.1590
11 Carbon Disulfide	76	6.807	6.679	(0.754)	6499	0.10750	0.1074(a)
16 2-Butanone	43	8.255	8.235	(0.915)	3888	0.22240	0.2223(a)
* 20 Pentafluorobenzene	168	9.023	9.023	(1.000)	1414578	50.0000	
$ 22 Dibromofluoromethane	113	9.121	9.111	(1.011)	1075590	49.4602	49.4602
$ 25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	899925	46.6632	46.6631
* 29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	2340975	50.0000	
34 2-Chloroethylvinylether	63	13.011	13.129	(1.238)	4026	0.63672	0.6367
$ 37 Toluene-d8	98	13.001	13.001	(1.237)	2267101	48.2426	48.2426
* 46 Chlorobenzene-d5	117	15.532	15.532	(1.000)	1897601	50.0000	
$ 57 Bromofluorobenzene	95	17.660	17.659	(0.891)	943424	47.1542	47.1541
58 1,2,3-Trichloropropane	110	17.650	17.699	(0.890)	792	0.12133	0.1213(a)
* 69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	919452	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D
Report Date: 05-Aug-2004 19:24

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D
Report Date: 05-Aug-2004 19:24

Curtis & Tompkins, Ltd.

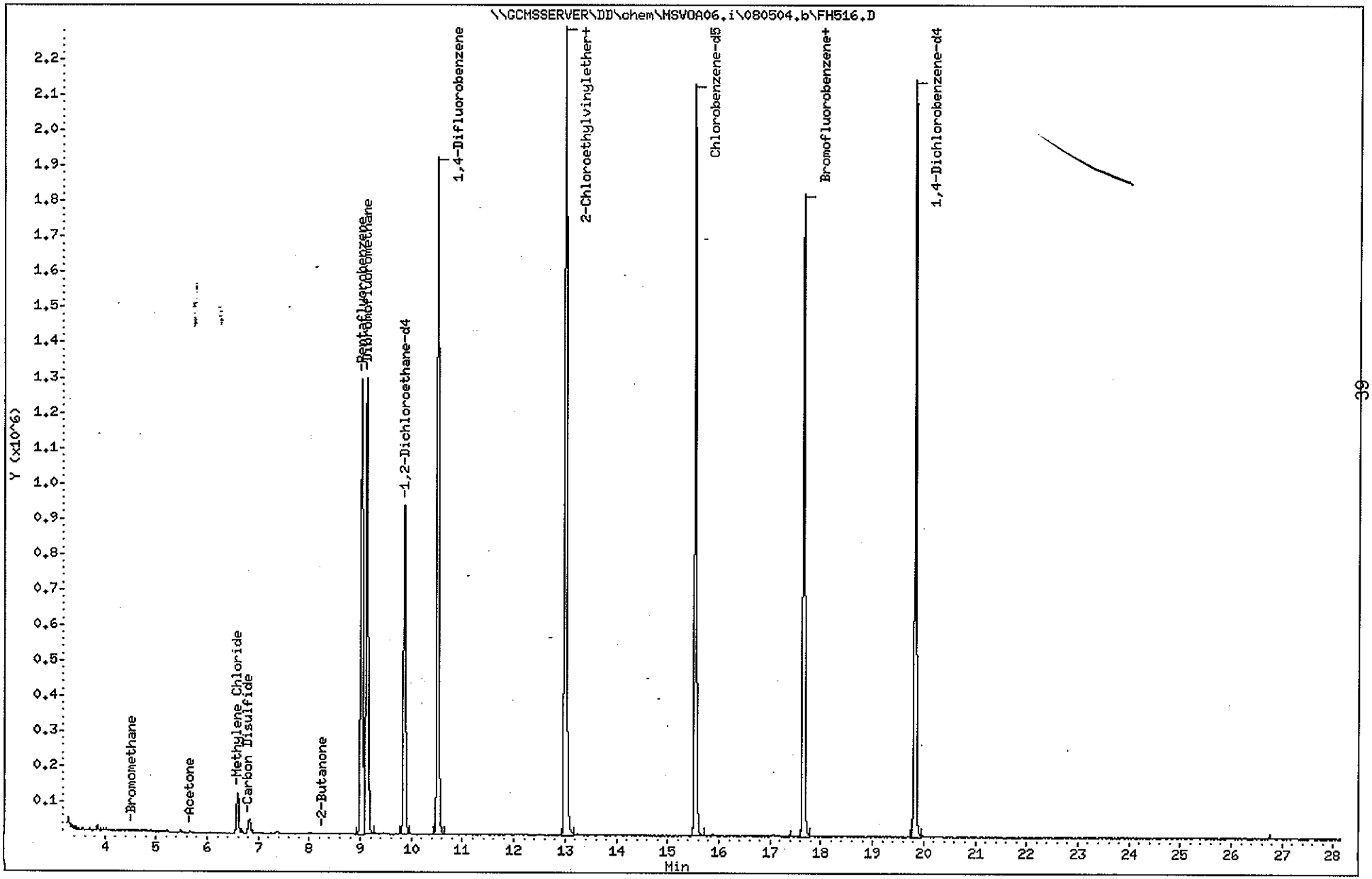
Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 18:21 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : S,173857-001
Misc Info : 93511,5.1/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D
Date : 05-AUG-2004 18:21
Client ID: DYNA P&T
Sample Info: S,173857-001
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i

Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D

Date : 05-AUG-2004 18:21

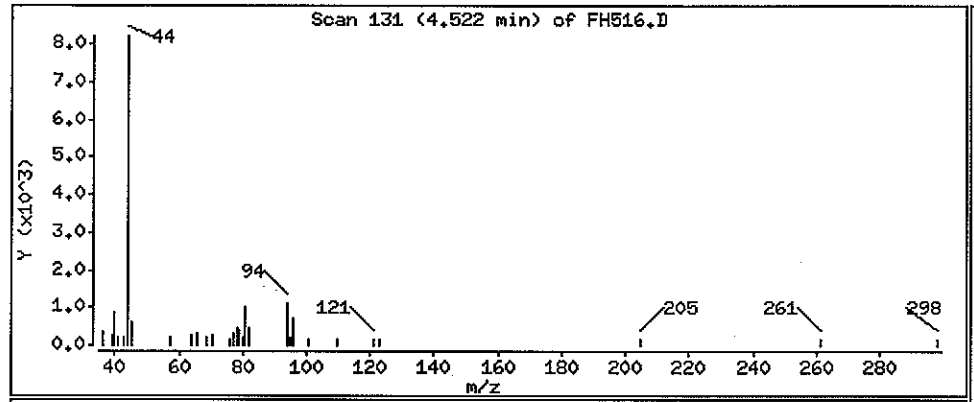
Client ID: DYNA P&T | Instrument: MSVOA06.i

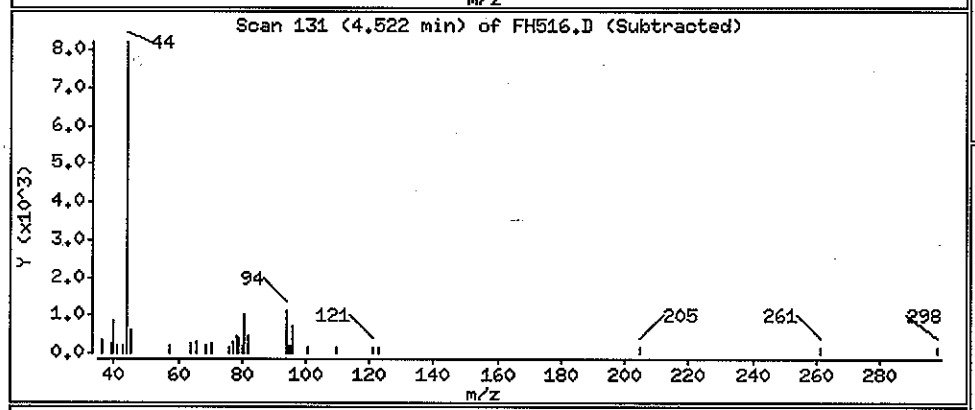
Sample Info: S,173857-001

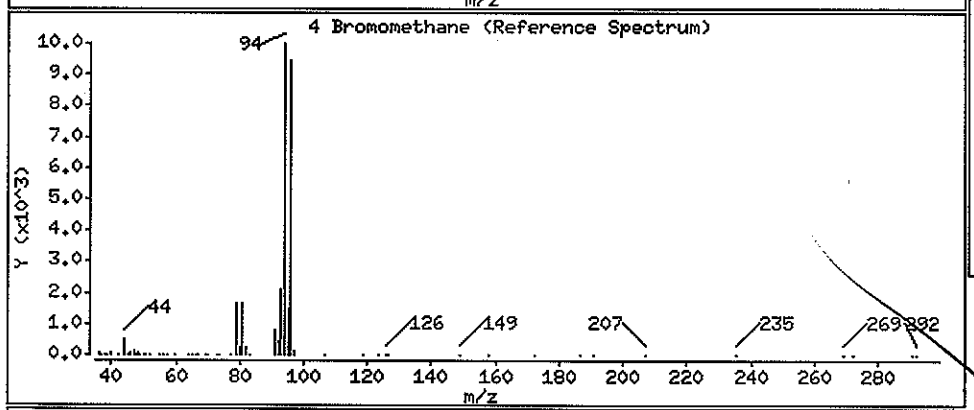
Purge Volume: 5.0 | Operator: VOA

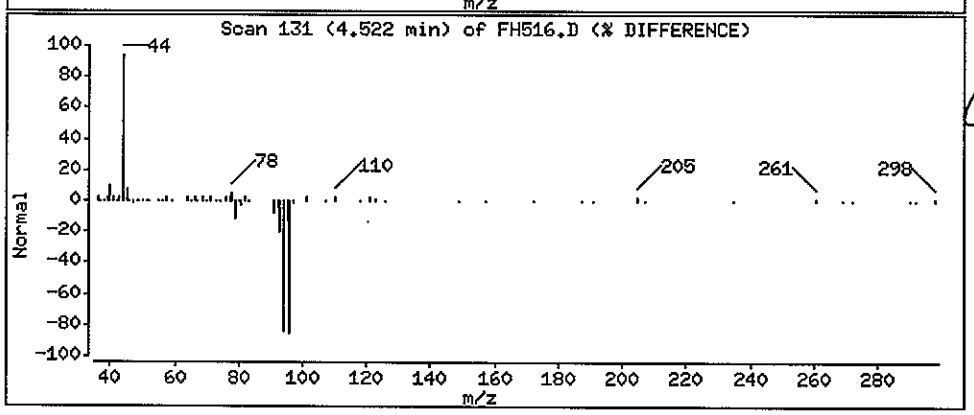
Column phase: RTx Volatiles | Column diameter: 0.32

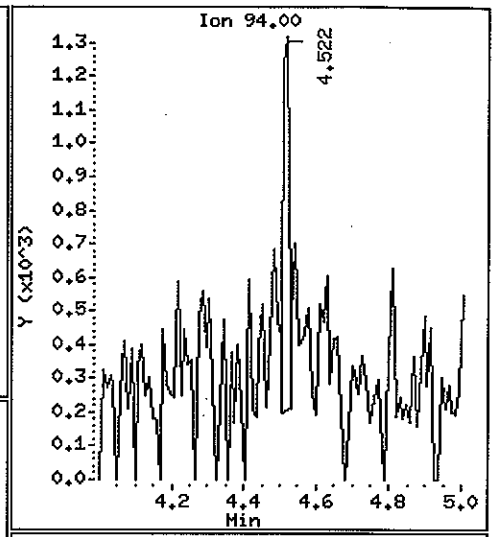
4 Bromomethane | Concentration: 0.1014 UG/L

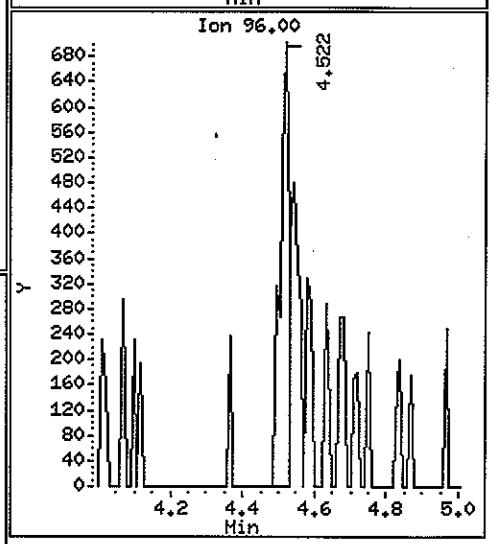












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D

Date : 05-AUG-2004 18:21

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: S,173857-001

Purge Volume: 5.0

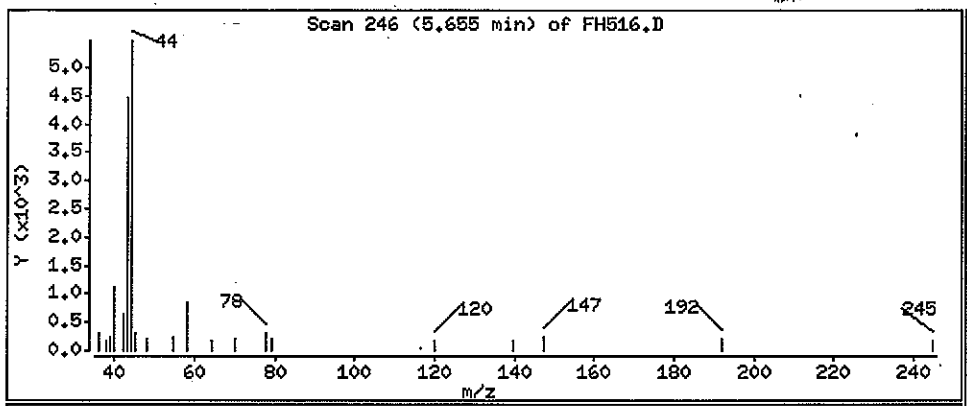
Operator: VOA

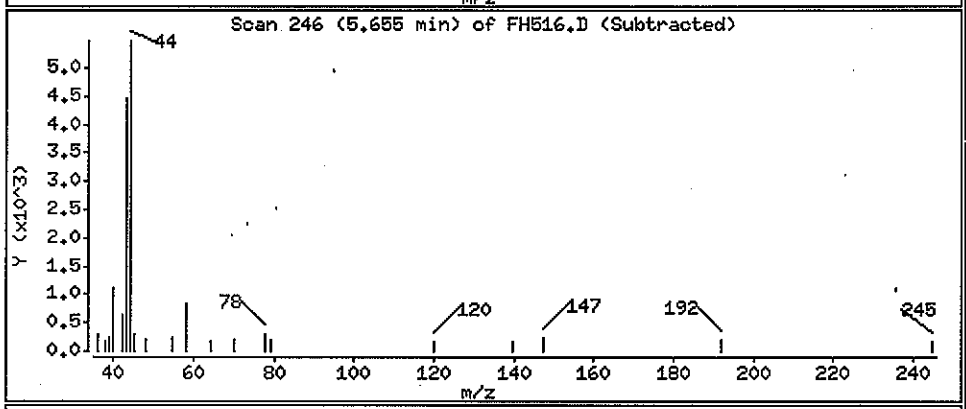
Column phase: RTx Volatiles

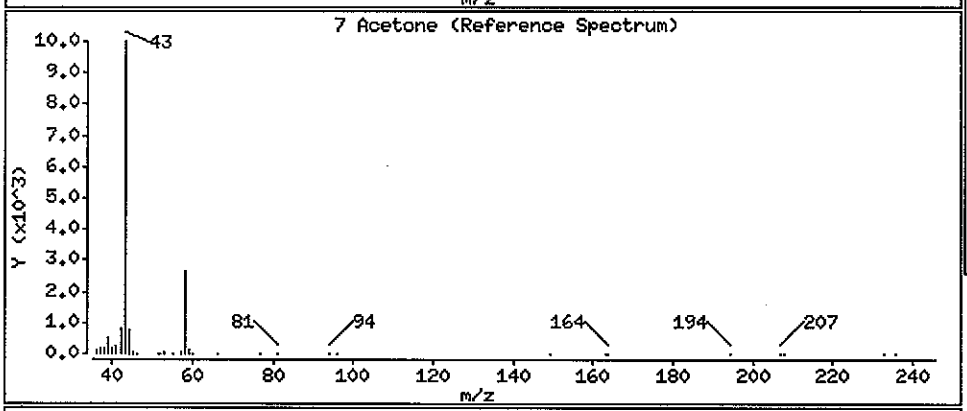
Column diameter: 0.32

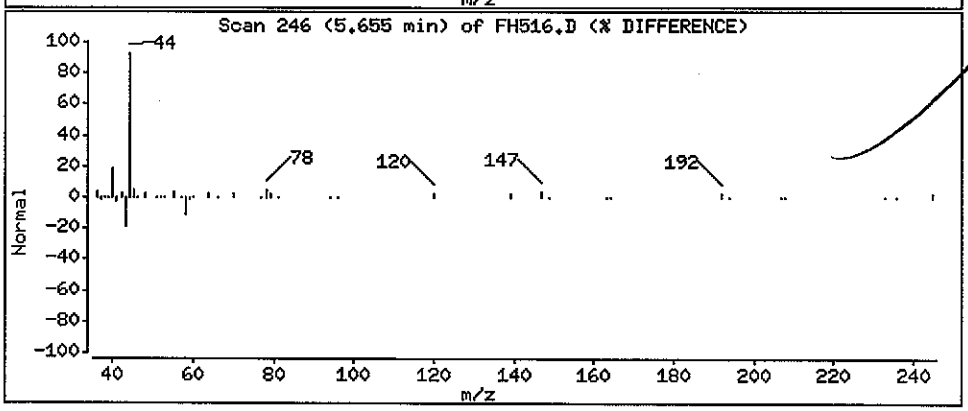
7 Acetone

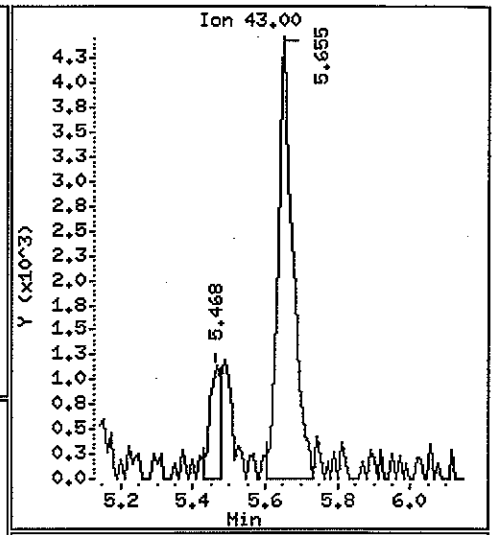
Concentration: 1.1752 UG/L

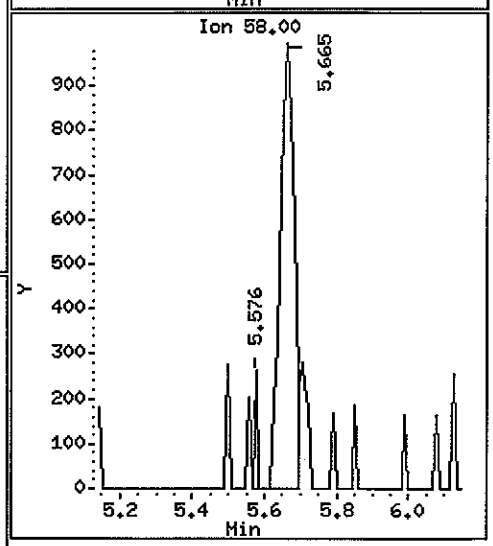












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D

Date : 05-AUG-2004 18:21

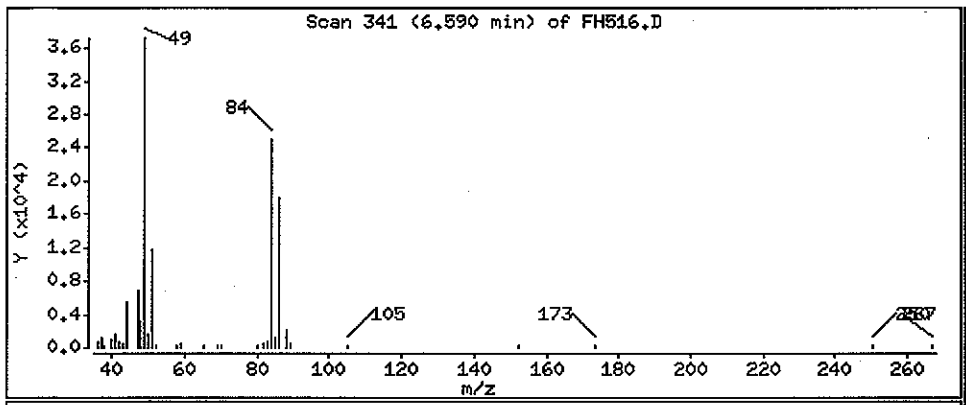
Client ID: DYNA P&T | Instrument: MSVOA06.i

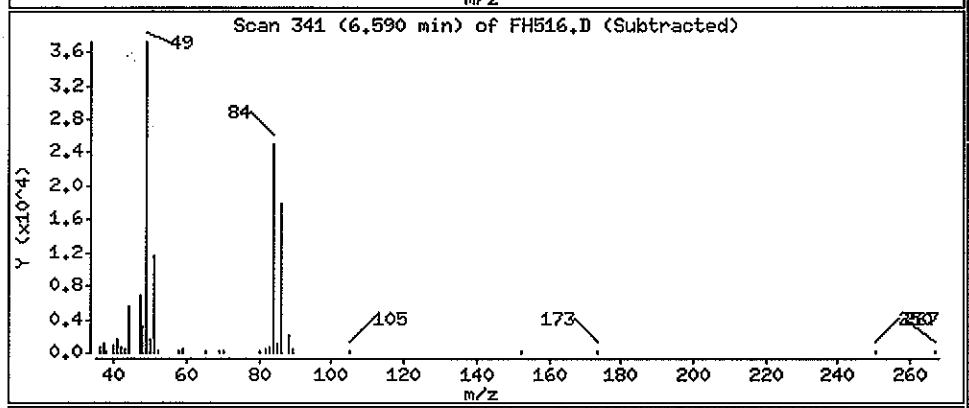
Sample Info: S,173857-001

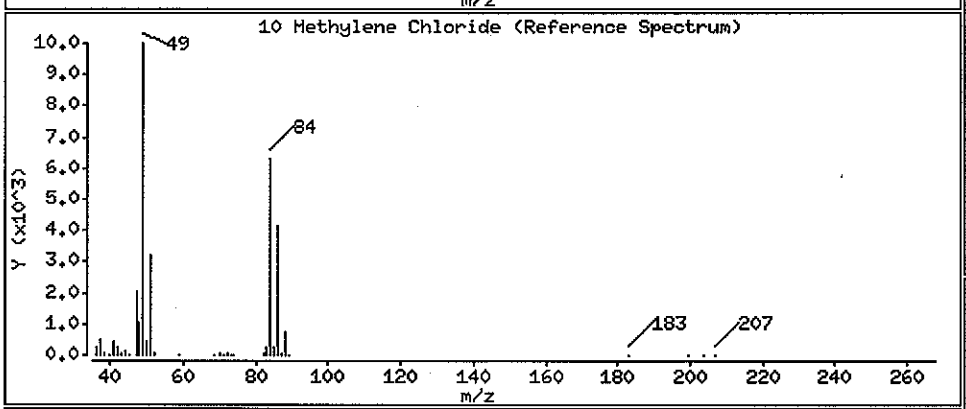
Purge Volume: 5.0 | Operator: VOA

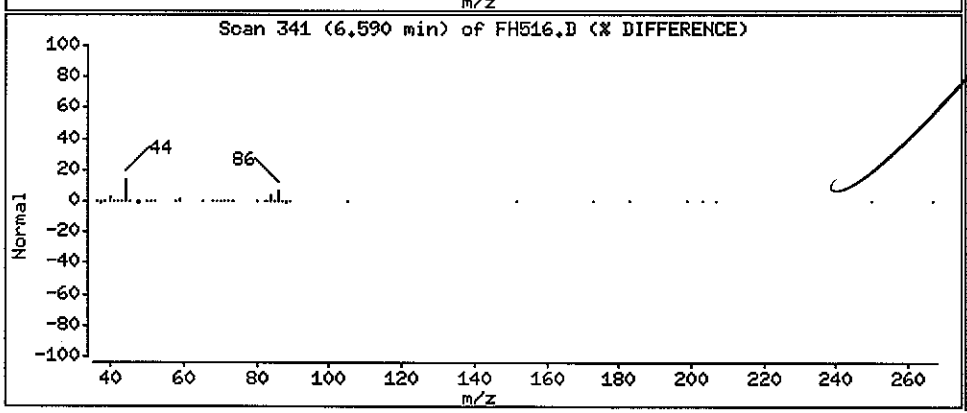
Column phase: RTx Volatiles | Column diameter: 0.32

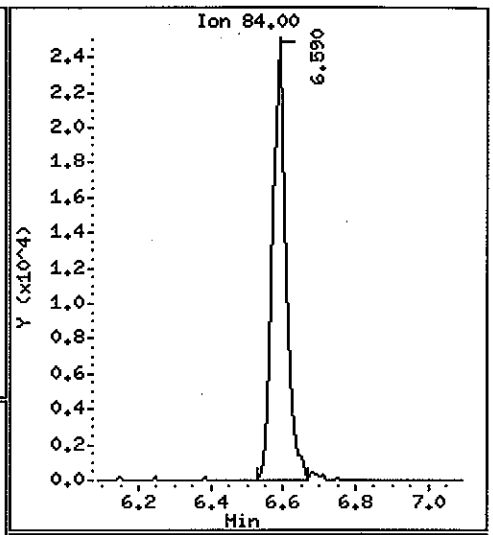
10 Methylene Chloride | Concentration: 3.1590 UG/L

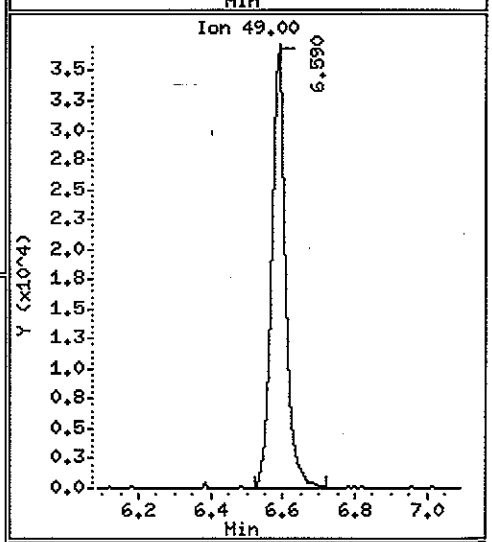


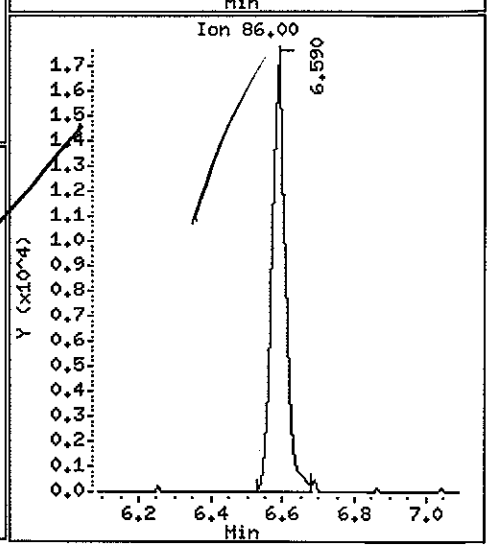












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D

Date : 05-AUG-2004 18:21

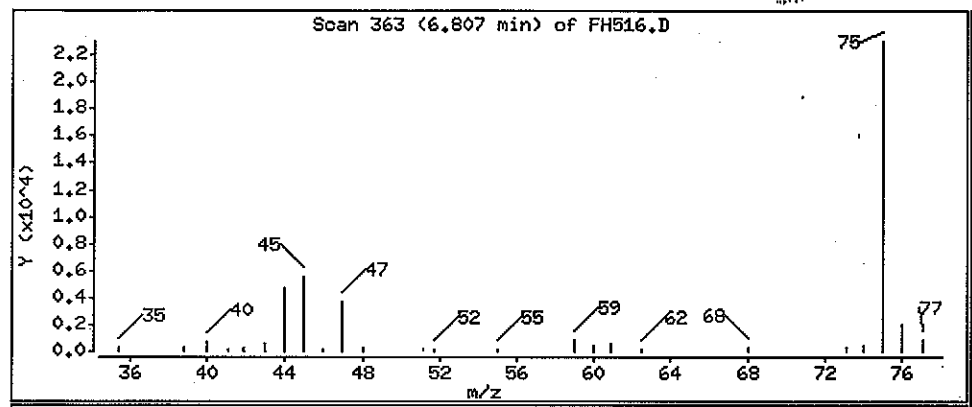
Client ID: DYNA P&T | Instrument: MSVOA06.i

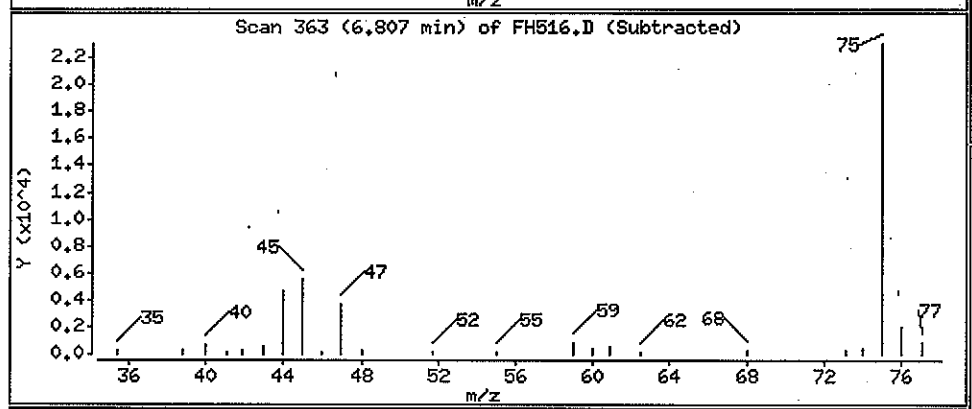
Sample Info: S,173857-001

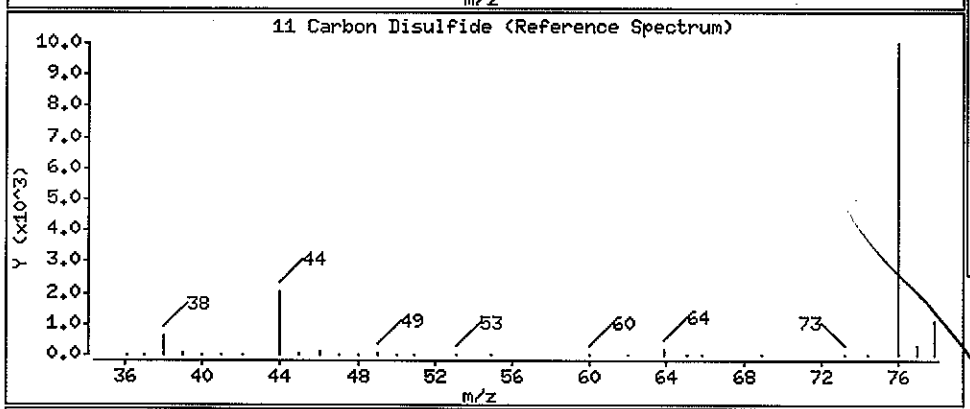
Purge Volume: 5.0 | Operator: VOA

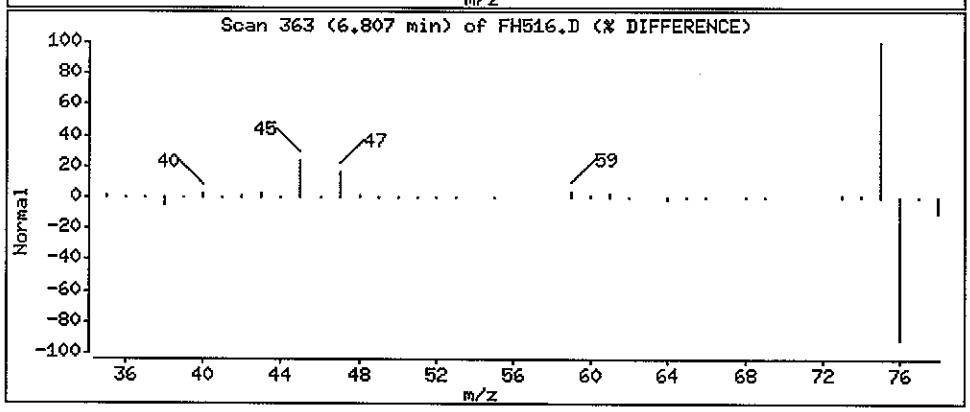
Column phase: RTx Volatiles | Column diameter: 0.32

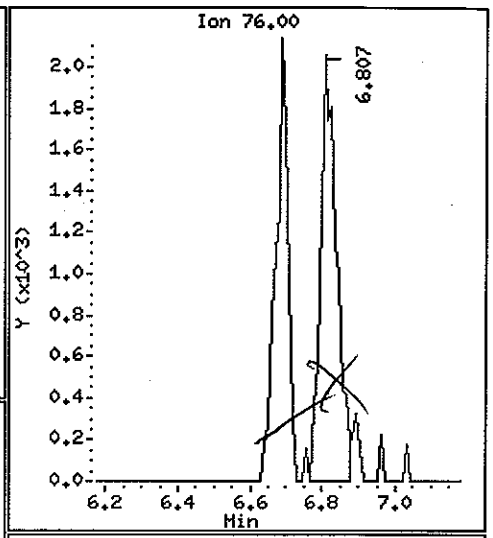
11 Carbon Disulfide | Concentration: 0.1074 UG/L

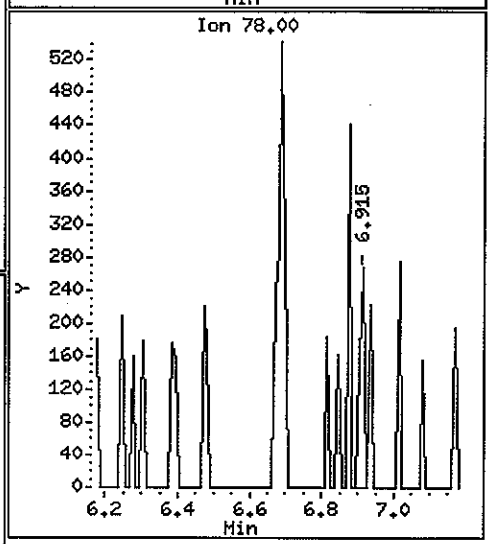












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D

Date : 05-AUG-2004 18:21

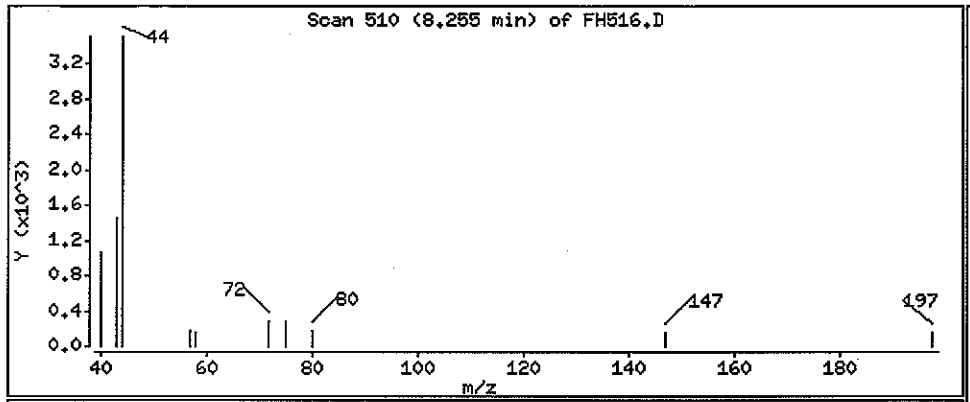
Client ID: DYNA P&T | Instrument: MSVOA06.i

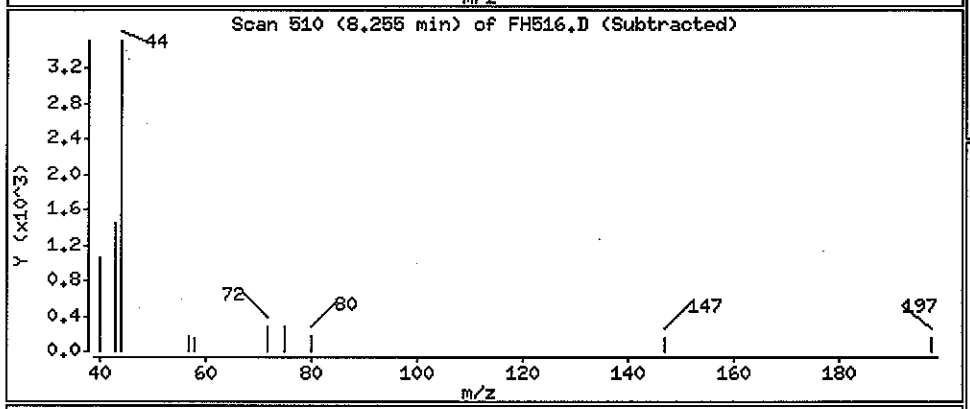
Sample Info: S,173857-001

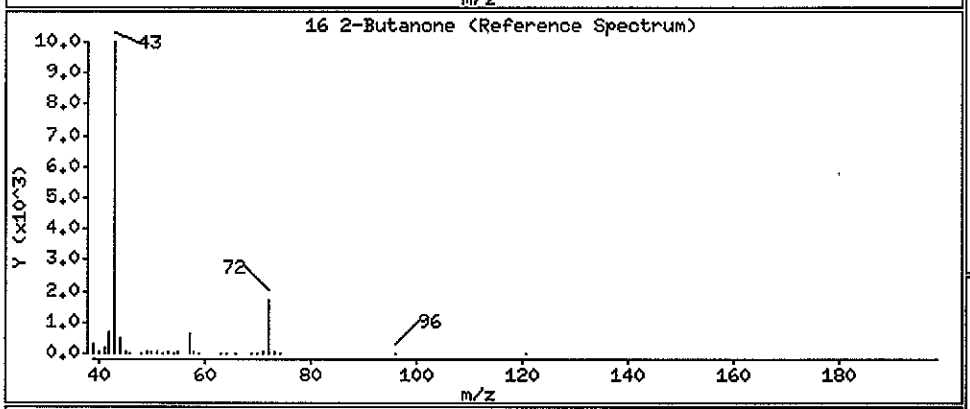
Purge Volume: 5.0 | Operator: VOA

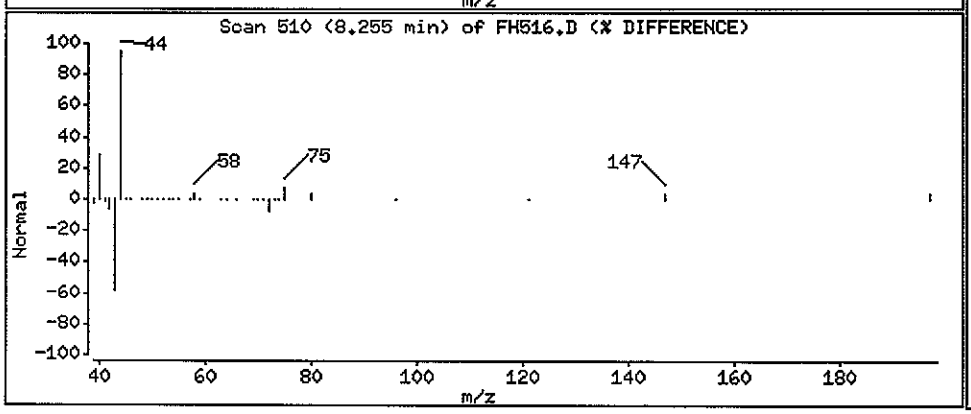
Column phase: RTx Volatiles | Column diameter: 0.32

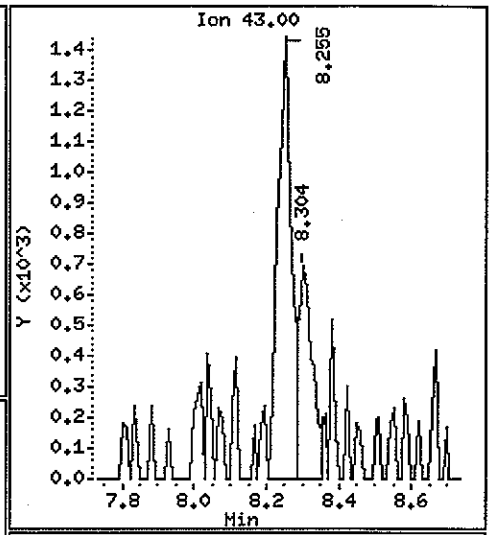
16 2-Butanone | Concentration: 0.2223 UG/L

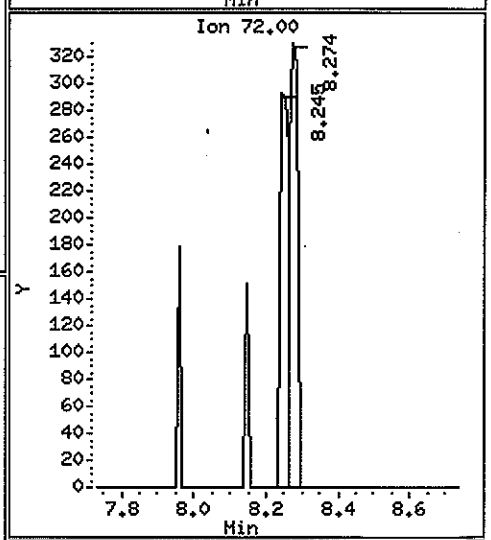


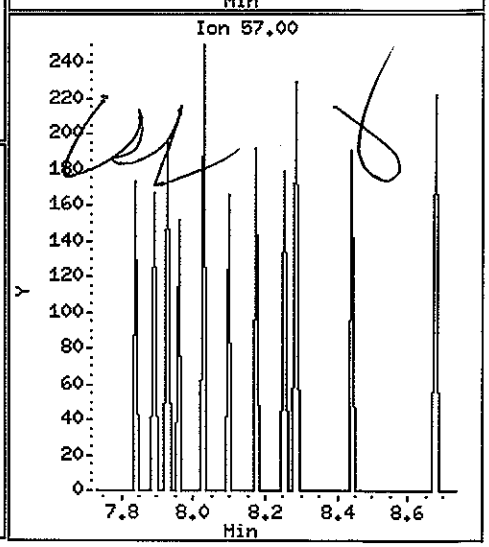












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D

Date : 05-AUG-2004 18:21

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: S,173857-001

Purge Volume: 5.0

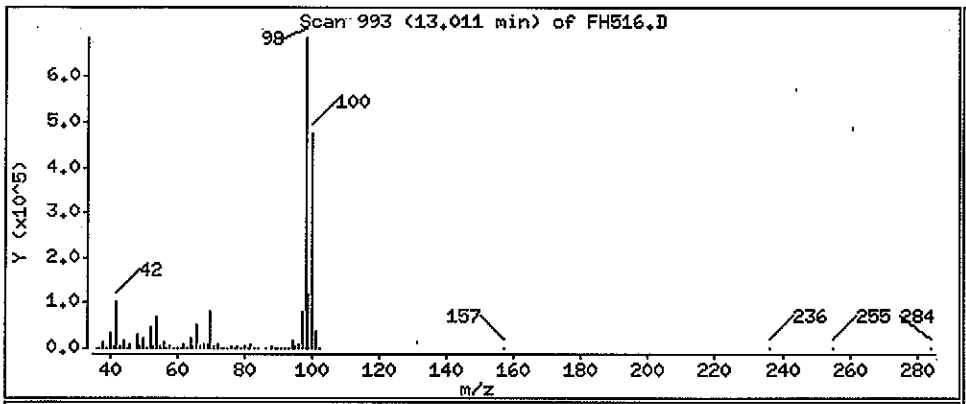
Operator: VOA

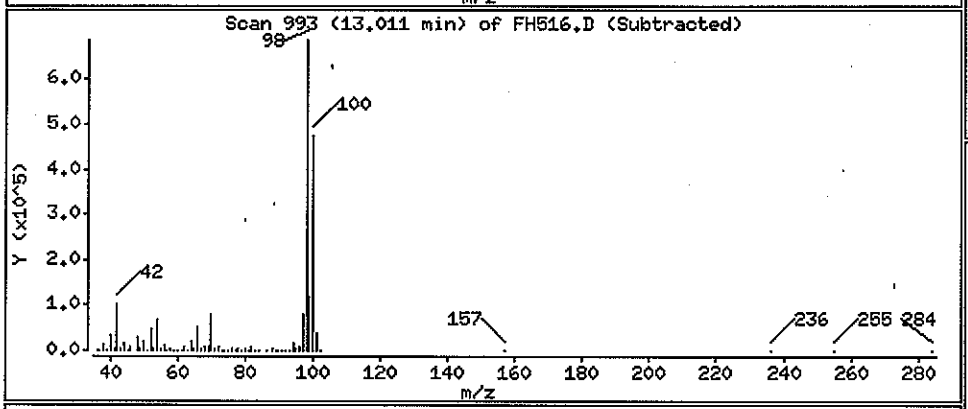
Column phase: RTx Volatiles

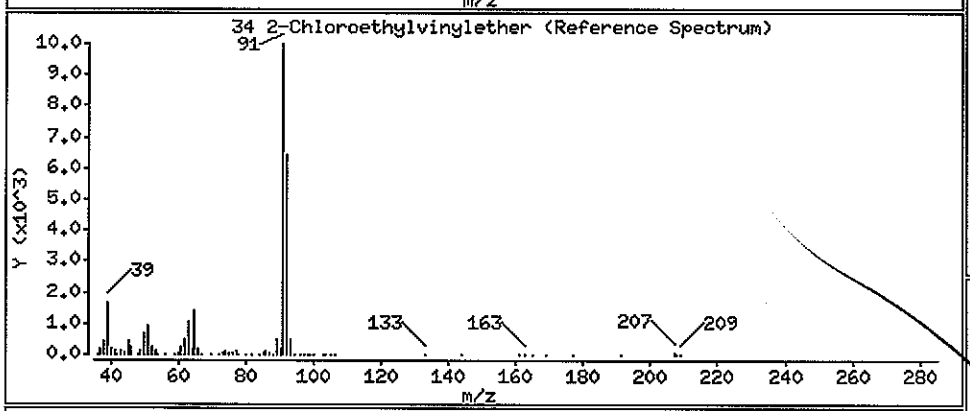
Column diameter: 0.32

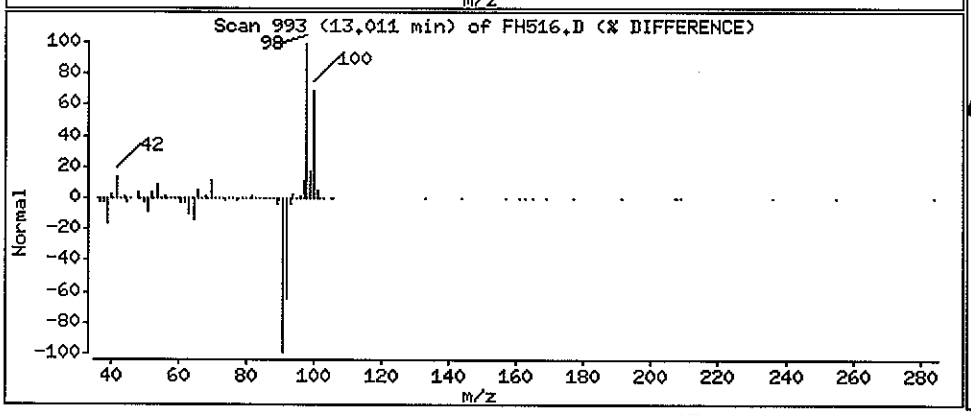
34 2-Chloroethylvinylether

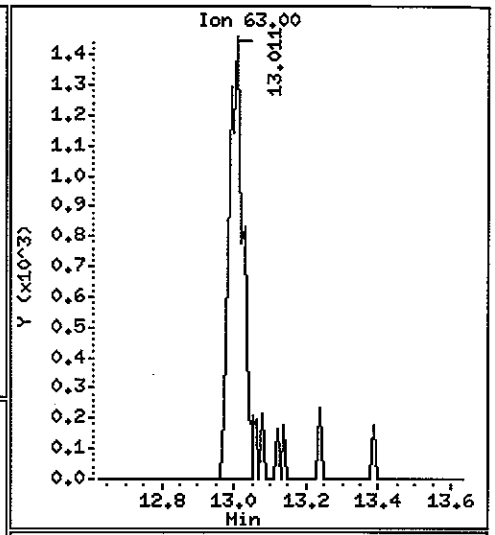
Concentration: 0.6367 UG/L

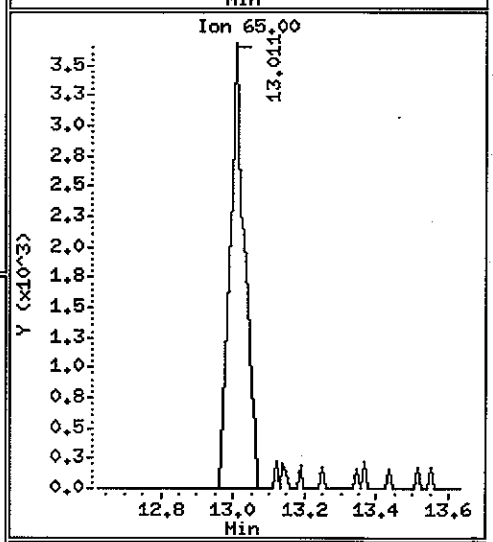


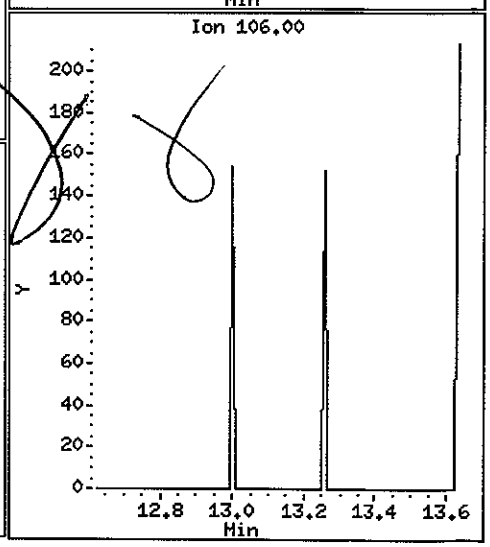












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH516.D

Date : 05-AUG-2004 18:21

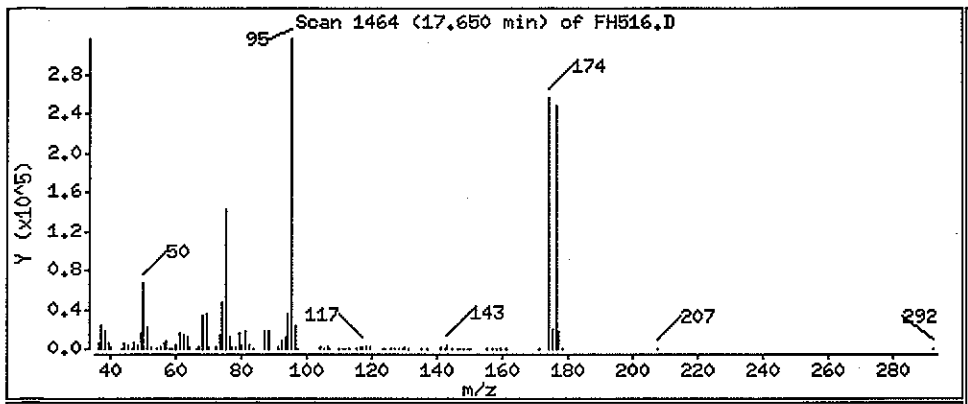
Client ID: DYNA P&T | Instrument: MSVOA06.i

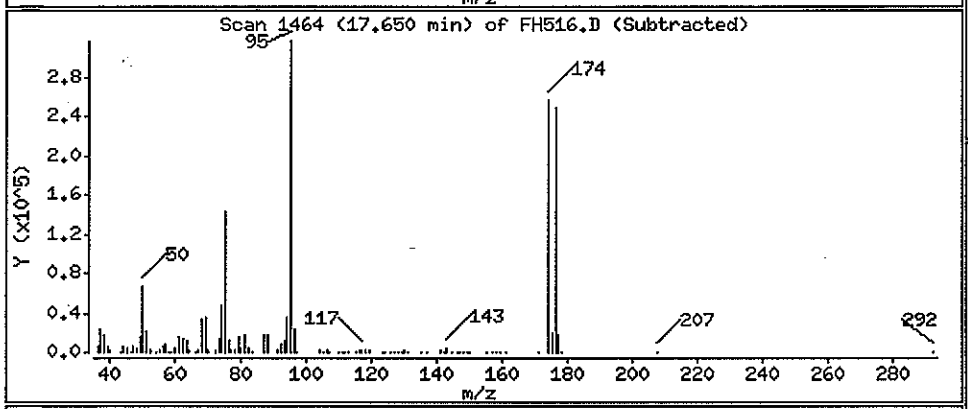
Sample Info: S,173857-001

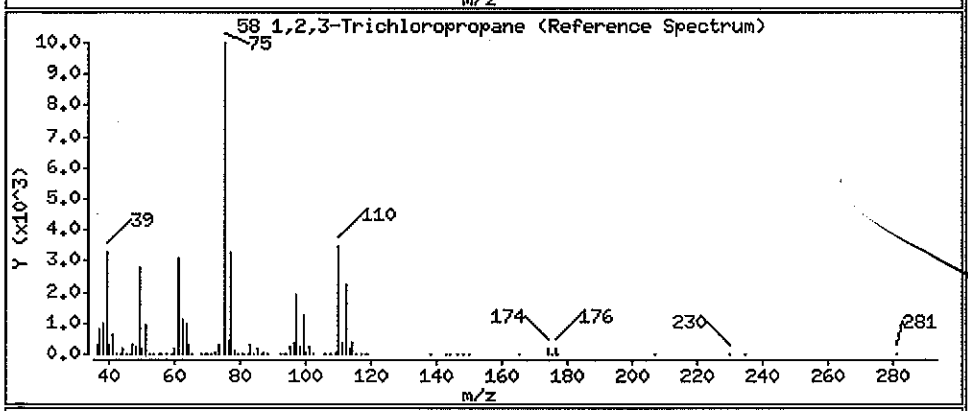
Purge Volume: 5.0 | Operator: VOA

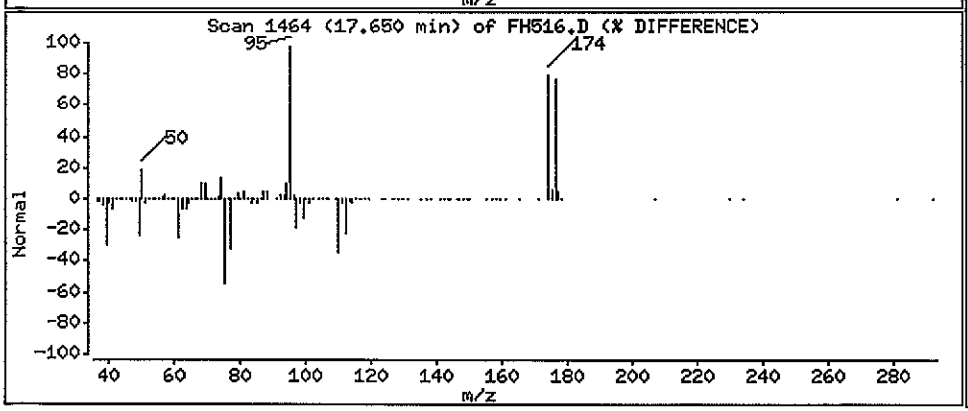
Column phase: RTx Volatiles | Column diameter: 0.32

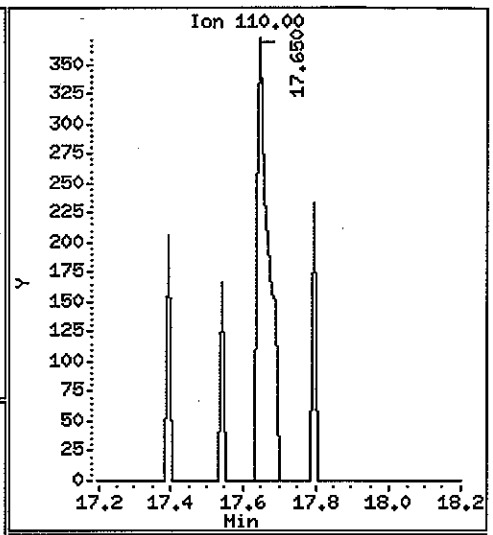
58 1,2,3-Trichloropropane | Concentration: 0.1213 UG/L

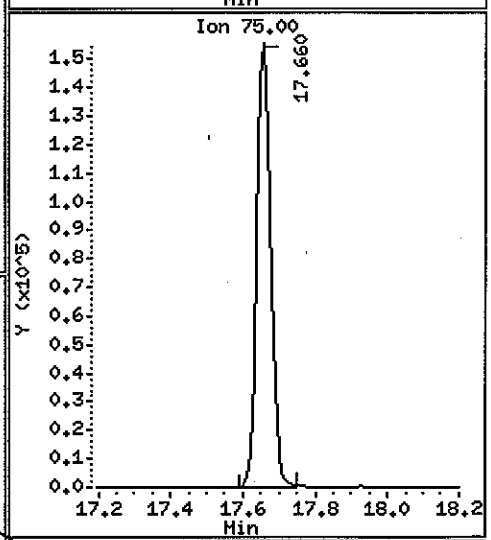


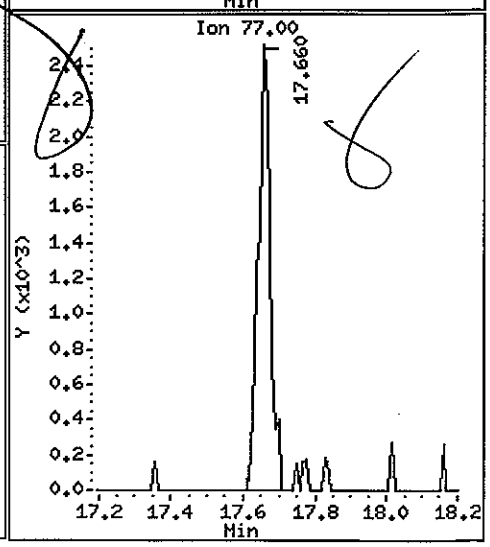












SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA06	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 454314501017	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: fh517	Batchnum	: 93511	Injected	: 05-AUG-2004 18:55
IDF	: 0.9434	PDF	: 1.0	Units	: ug/Kg
Calnum	: 454284216002	Caldate	: 15-JUL-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=fh505	Flags
Freon 12	ND		9.4		
Chloromethane	ND		9.4	0.20	
Vinyl Chloride	ND		9.4		
Bromomethane	ND		9.4		
Chloroethane	ND		9.4		
Trichlorofluoromethane	ND		4.7		
Acetone	ND		19	1.2	
Freon 113	ND		4.7		
1,1-Dichloroethene	ND		4.7		
Methylene Chloride	ND		19	0.78	
Carbon Disulfide	ND		4.7		
MTBE	ND		4.7		
trans-1,2-Dichloroethene	ND		4.7		
Vinyl Acetate	ND		47		
1,1-Dichloroethane	ND		4.7		
2-Butanone	ND		9.4		
cis-1,2-Dichloroethene	ND		4.7		
2,2-Dichloropropane	ND		4.7		
Chloroform	ND		4.7		
Bromochloromethane	ND		4.7		
1,1,1-Trichloroethane	ND		4.7		
1,1-Dichloropropene	ND		4.7		
Carbon Tetrachloride	ND		4.7		
1,2-Dichloroethane	ND		4.7		
Benzene	ND		4.7		
Trichloroethene	ND		4.7		
1,2-Dichloropropane	ND		4.7		
Bromodichloromethane	ND		4.7		
Dibromomethane	ND		4.7		
4-Methyl-2-Pentanone	ND		9.4		
cis-1,3-Dichloropropene	ND		4.7		
Toluene	ND		4.7		
trans-1,3-Dichloropropene	ND		4.7		
1,1,2-Trichloroethane	ND		4.7		
2-Hexanone	ND		9.4		
1,3-Dichloropropane	ND		4.7		
Tetrachloroethene	ND		4.7		
Dibromochloromethane	ND		4.7		
1,2-Dibromoethane	ND		4.7		
Chlorobenzene	ND		4.7		
1,1,1,2-Tetrachloroethane	ND		4.7		
Ethylbenzene	ND		4.7		
m,p-Xylenes	ND		4.7		

Analyst: RAQ Date: 8/6/04 Reviewer: LW Date: 8-6-04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA06	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 454314501017	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: fh517	Batchnum	: 93511	Injected	: 05-AUG-2004 18:55
IDF	: 0.9434	PDF	: 1.0	Units	: ug/Kg
Calnum	: 454284216002	Caldate	: 15-JUL-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=fh505	Flags
o-Xylene	ND		4.7		
Styrene	ND		4.7		
Bromoform	ND		4.7		
Isopropylbenzene	ND		4.7		
1,1,2,2-Tetrachloroethane	ND		4.7		
1,2,3-Trichloropropane	ND		4.7		
Propylbenzene	ND		4.7		
Bromobenzene	ND		4.7		
1,3,5-Trimethylbenzene	ND		4.7		
2-Chlorotoluene	ND		4.7		
4-Chlorotoluene	ND		4.7		
tert-Butylbenzene	ND		4.7		
1,2,4-Trimethylbenzene	ND		4.7		
sec-Butylbenzene	ND		4.7		
para-Isopropyl Toluene	ND		4.7		
1,3-Dichlorobenzene	ND		4.7		
1,4-Dichlorobenzene	ND		4.7		
n-Butylbenzene	ND		4.7		
1,2-Dichlorobenzene	ND		4.7		
1,2-Dibromo-3-Chloropropane	ND		4.7		
1,2,4-Trichlorobenzene	ND		4.7		
Hexachlorobutadiene	ND		4.7		
Naphthalene	ND		4.7	0.15	
1,2,3-Trichlorobenzene	ND		4.7		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	47.17	47.89	102	80-120	
1,2-Dichloroethane-d4	47.17	43.90	93	80-120	
Toluene-d8	47.17	46.04	98	80-120	
Bromofluorobenzene	47.17	44.84	95	80-123	

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1372030	7.12	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2326547	9.53	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1897269	9.31	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	904722	4.71	19.83	19.83	0.00

Analyst: RLO Date: 8/6/04 Reviewer: LW Date: 8-6-04
Page 2 of 2

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D
Report Date: 06-Aug-2004 09:41

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 18:55
Operator : VOC Inst ID: MSVOA06.i
Smp Info : S,173857-002
Misc Info : 93511,5.3/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
2 Chloromethane	50	3.685	3.675	(0.408)	3451	0.15213	0.1521(a)
4 Bromomethane	94	4.502	4.502	(0.499)	1387	0.10160	0.1015(a)
7 Acetone	43	5.655	5.645	(0.627)	16781	1.53840	1.5383
10 Methylene Chloride	84	6.580	6.590	(0.729)	56635	2.75387	2.7538
16 2-Butanone	43	8.255	8.234	(0.915)	5518	0.32536	0.3253(a)
* 20 Pentafluorobenzene	168	9.023	9.023	(1.000)	1372030	50.0000	
$ 22 Dibromofluoromethane	113	9.121	9.111	(1.011)	1070779	50.7660	50.7659
$ 25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	891950	46.5364	46.5364
* 29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	2326547	50.0000	
34 2-Chloroethylvinylether	63	13.021	13.129	(1.239)	1400	0.22277	0.2227(a)
$ 37 Toluene-d8	98	13.001	13.001	(1.237)	2279413	48.8054	48.8053
* 46 Chlorobenzene-d5	117	15.532	15.532	(1.000)	1897269	50.0000	
$ 57 Bromofluorobenzene	95	17.650	17.659	(0.890)	935686	47.5289	47.5288
* 69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	904722	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D
Report Date: 06-Aug-2004 09:41

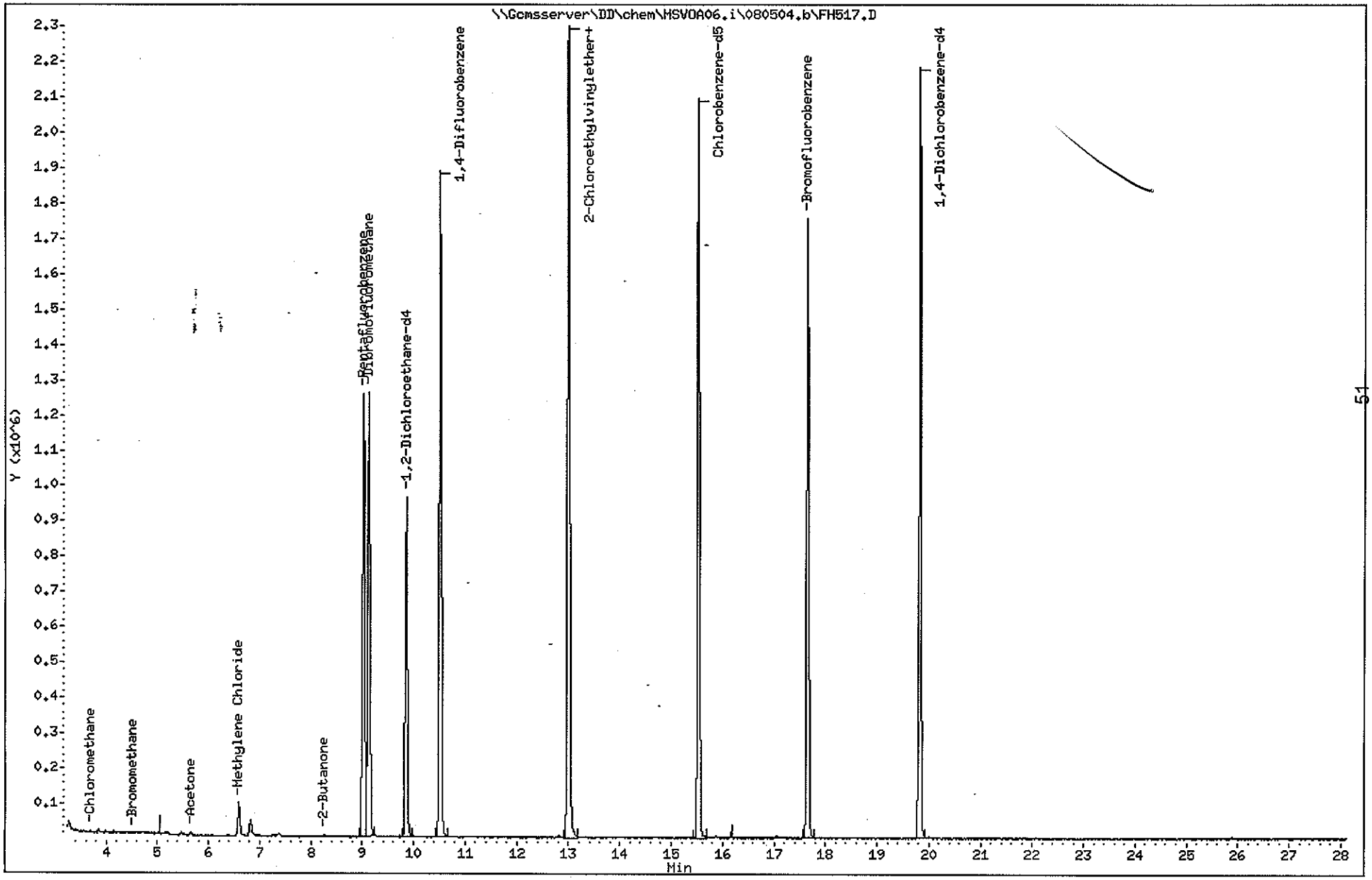
Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 18:55
Operator : VOC Inst ID: MSVOA06.i
Smp Info : S,173857-002
Misc Info : 93511,5.3/5
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D
Date : 05-AUG-2004 18:55
Client ID: DYNA P&T
Sample Info: S,173857-002
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOC
Column diameter: 0.32



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Date : 05-AUG-2004 18:55

Client ID: DYNA P&T .

Instrument: MSVOA06.i

Sample Info: S,173857-002

Purge Volume: 5.0

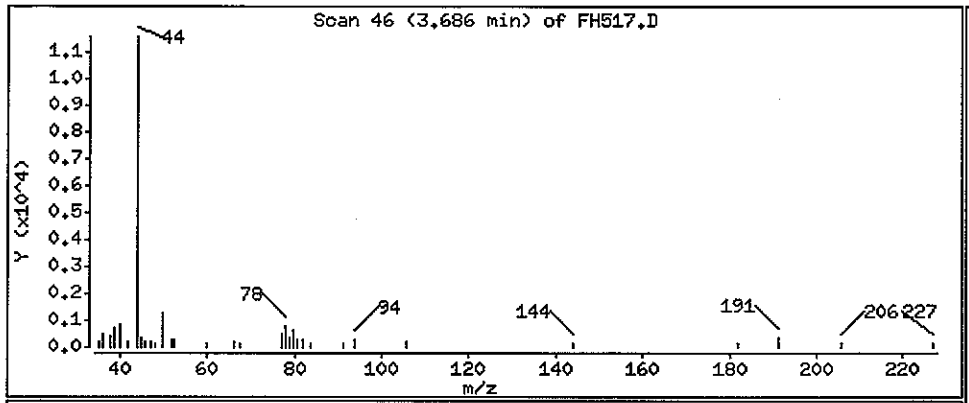
Operator: VOC

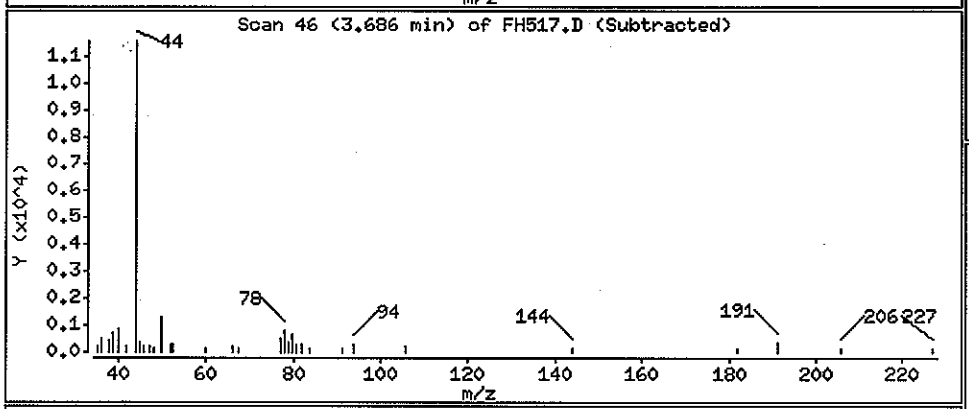
Column phase: RTx Volatiles

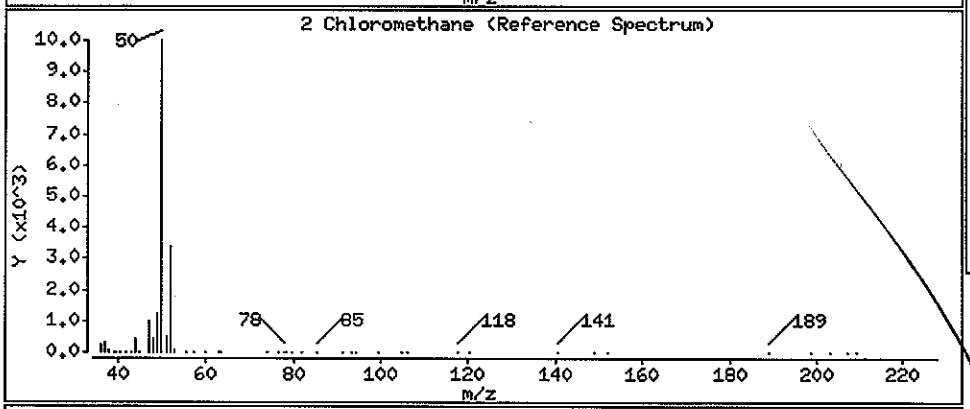
Column diameter: 0.32

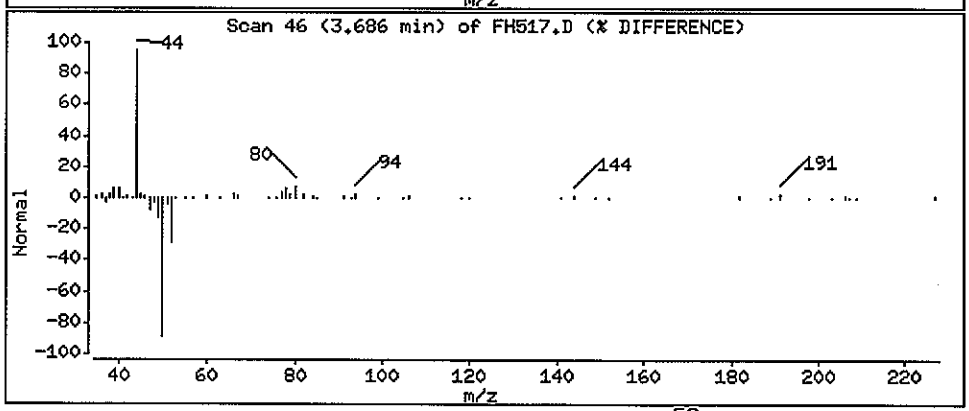
2 Chloromethane

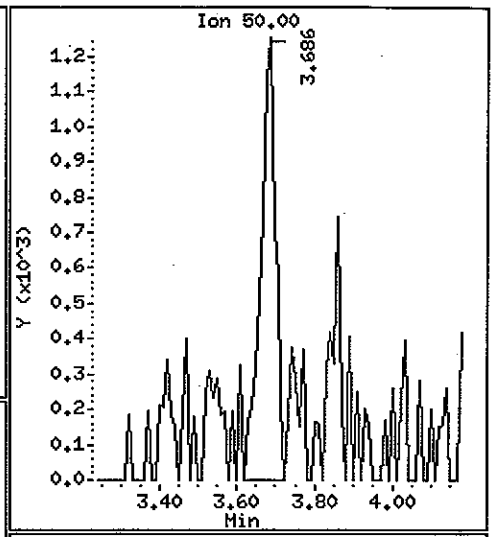
Concentration: 0.1521 UG/L

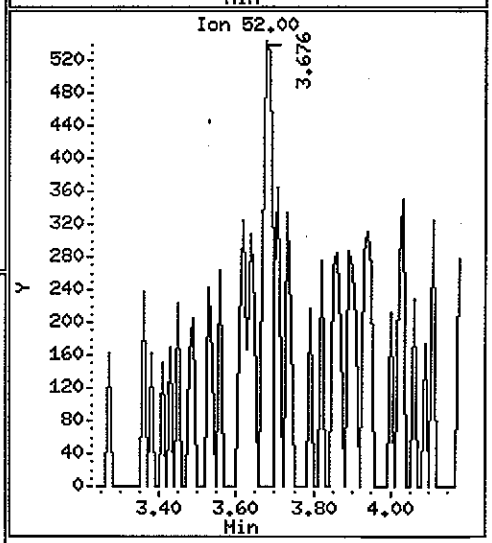












Data File: \\Gomsserver\DD\chem\MSVOA06.i\080504.b\FH517.D

Date : 05-AUG-2004 18:55

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: S,173857-002

Purge Volume: 5.0

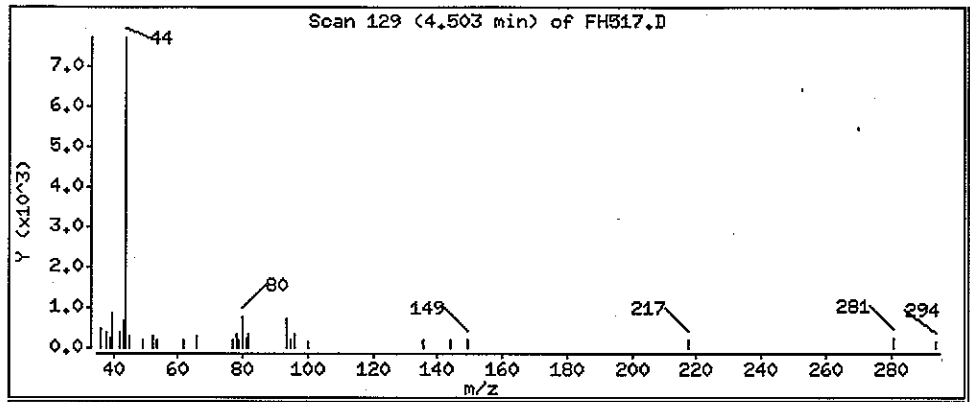
Operator: VOC

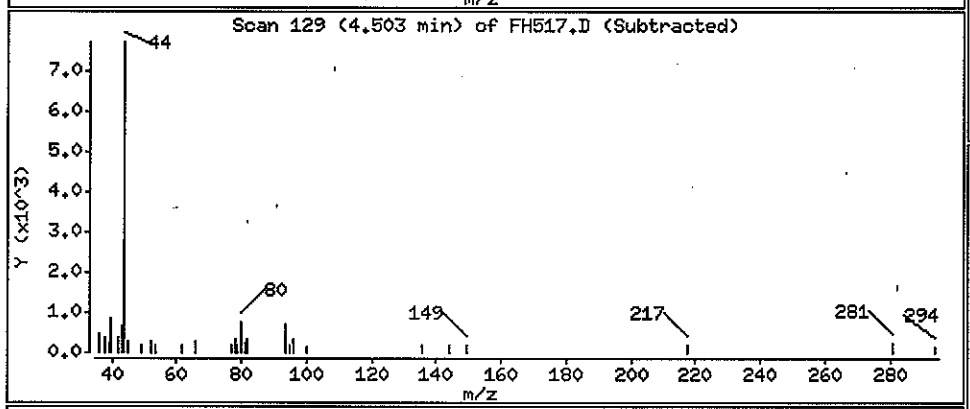
Column phase: RTx Volatiles

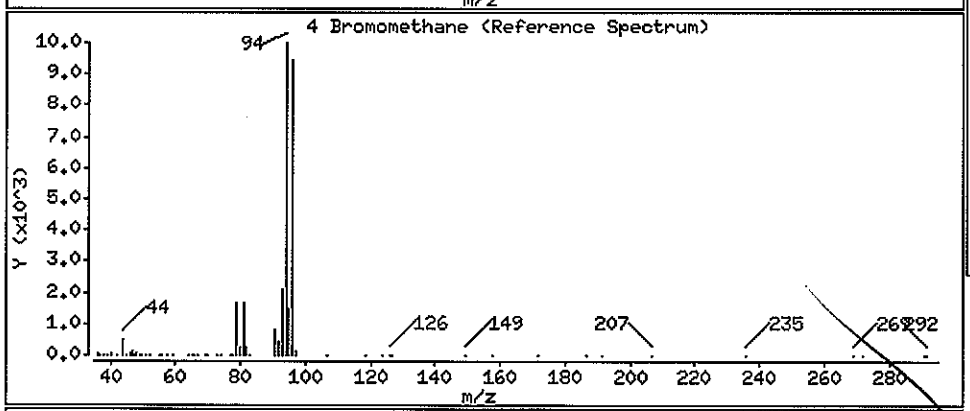
Column diameter: 0.32

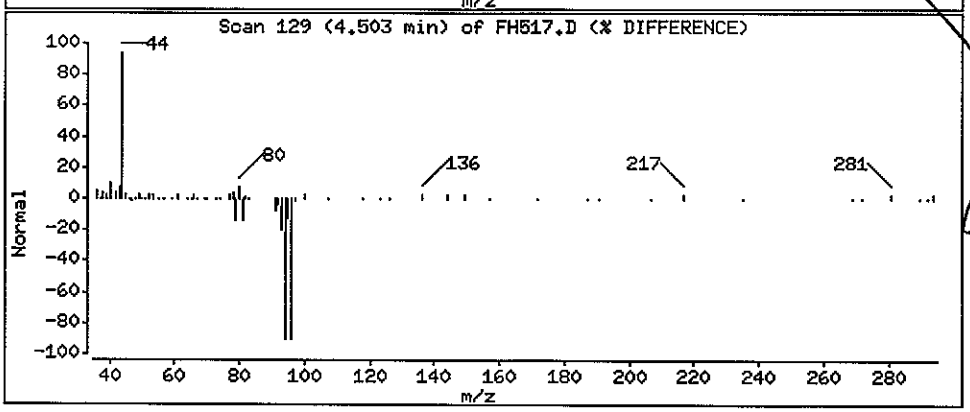
4 Bromomethane

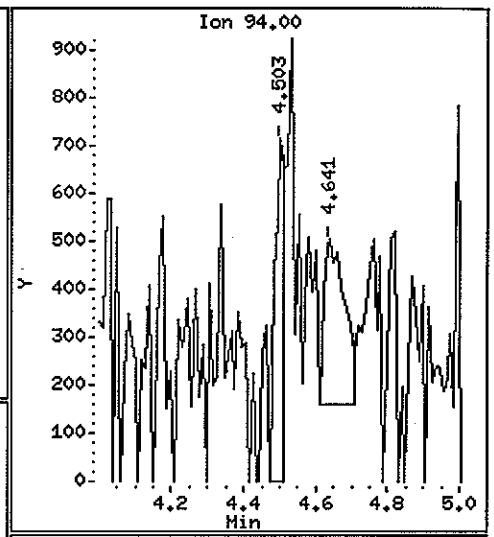
Concentration: 0.1015 UG/L

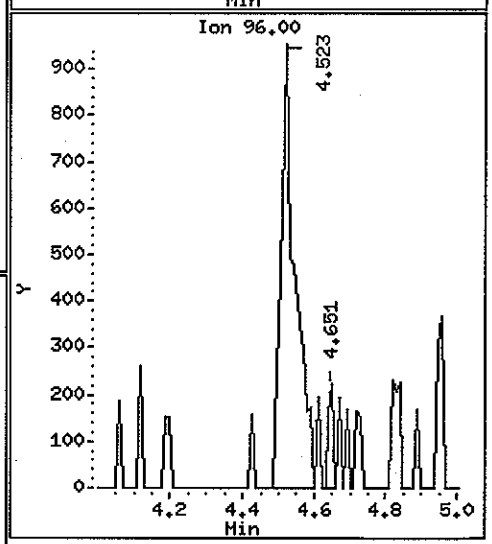












Data File: \\Gomsserver\DD\chem\MSVOA06.i\080504.b\FH517.D

Date : 05-AUG-2004 18:55

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: S,173857-002

Purge Volume: 5.0

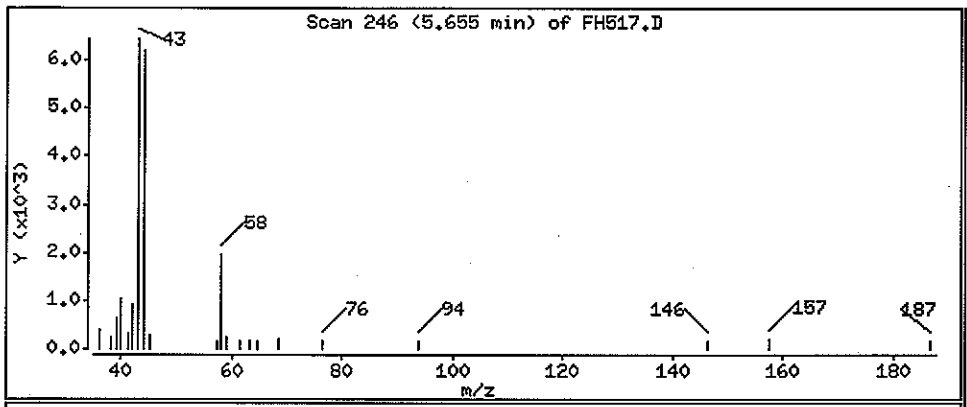
Operator: VOC

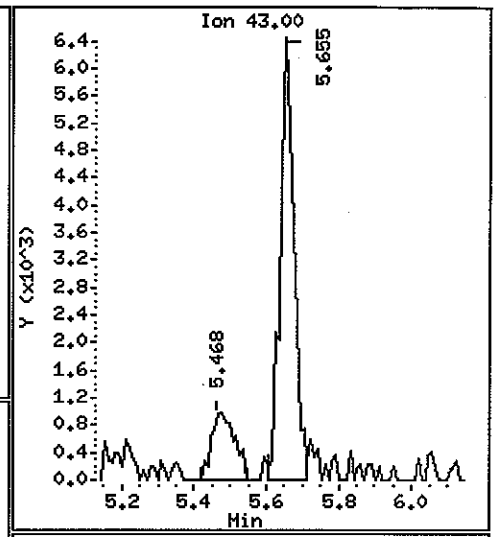
Column phase: RTx Volatiles

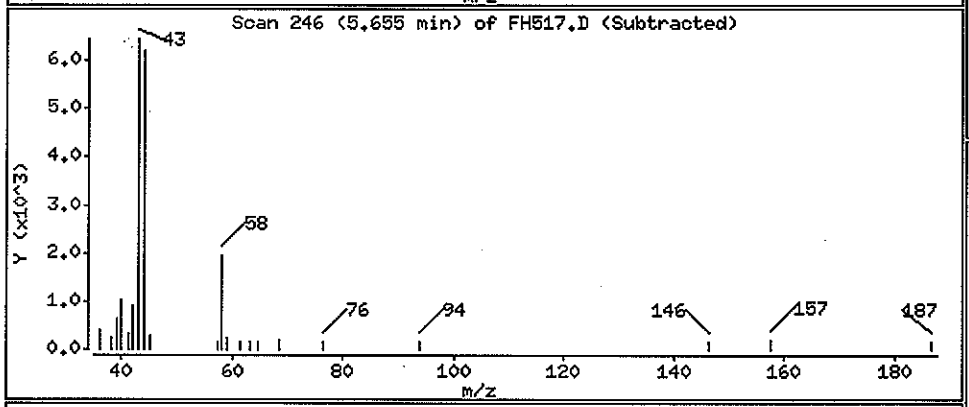
Column diameter: 0.32

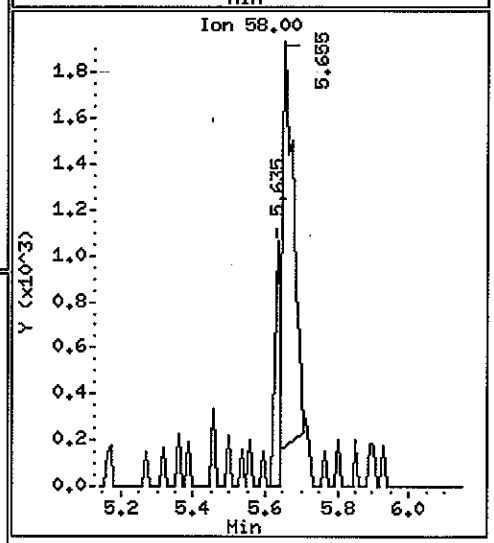
7 Acetone

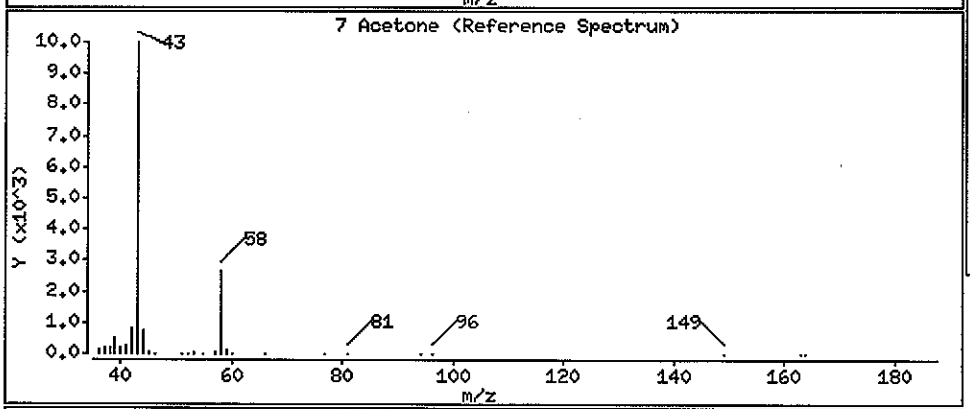
Concentration: 1.5383 UG/L

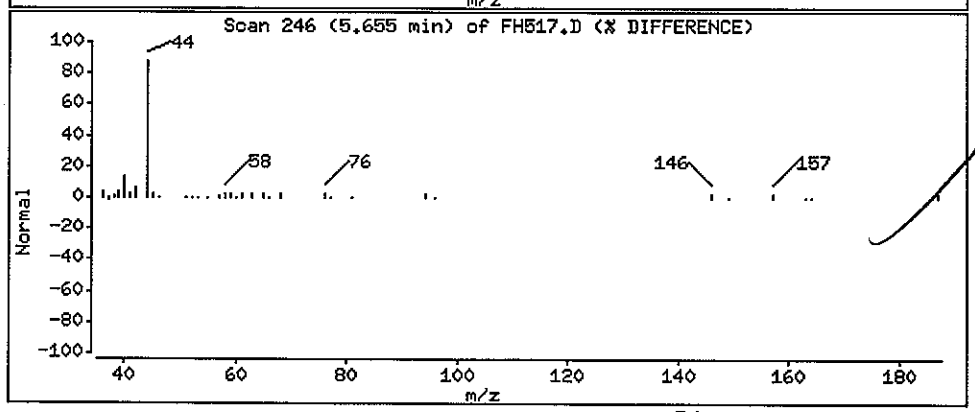












Data File: \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D

Date : 05-AUG-2004 18:55

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: S,173857-002

Purge Volume: 5.0

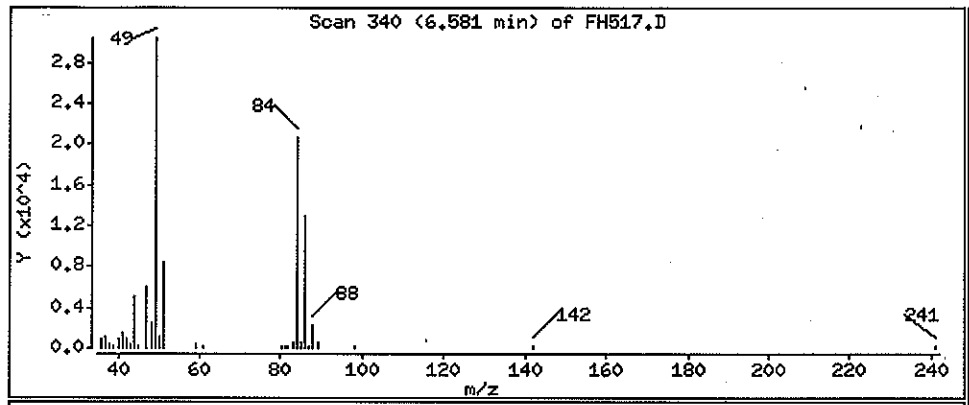
Operator: VOC

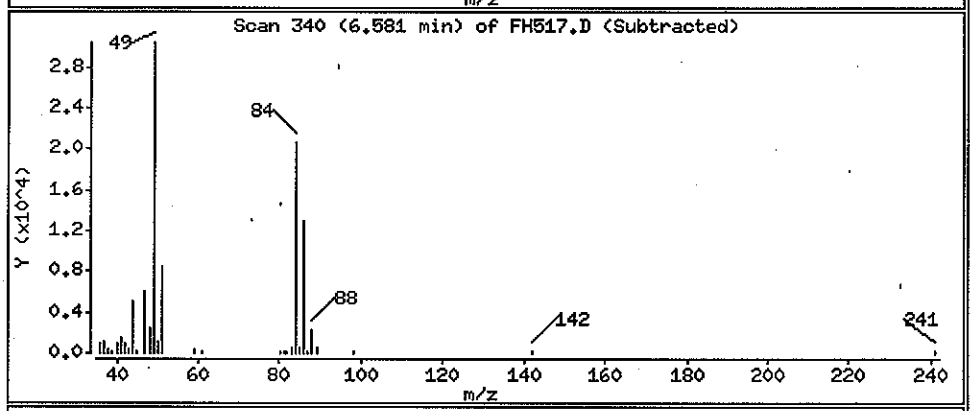
Column phase: RTx Volatiles

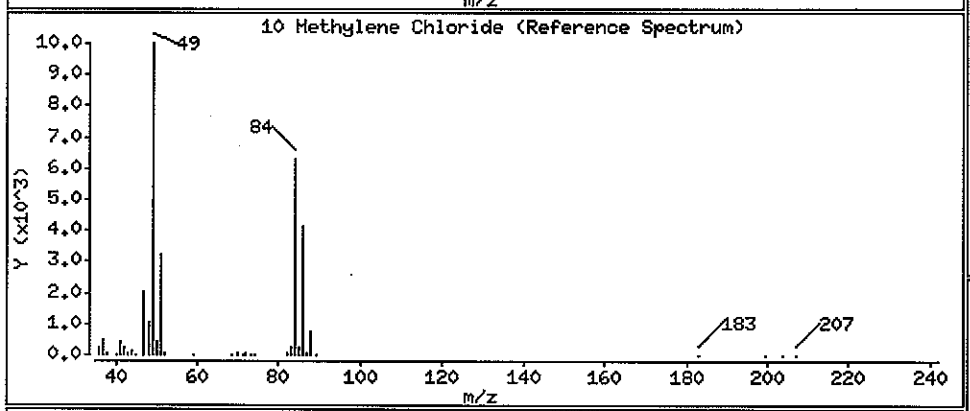
Column diameter: 0.32

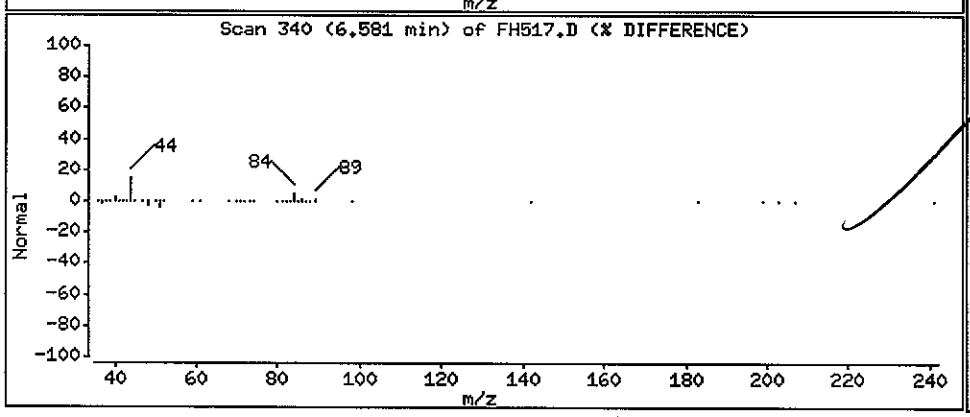
10 Methylene Chloride

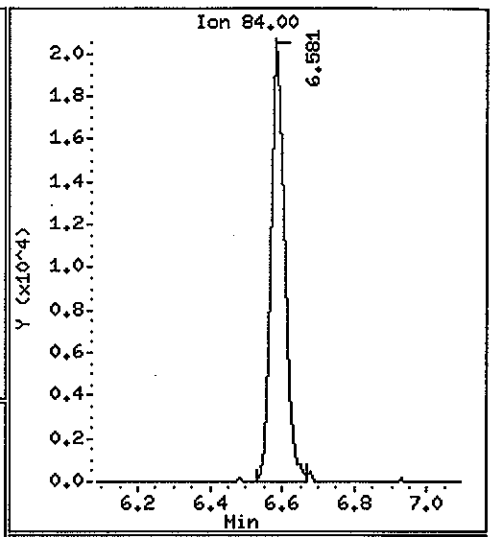
Concentration: 2.7538 UG/L

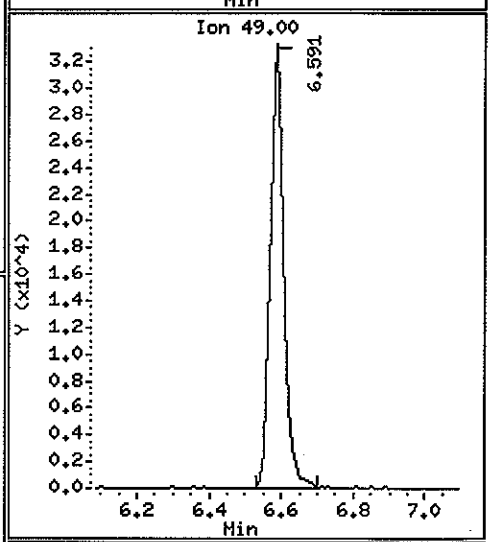


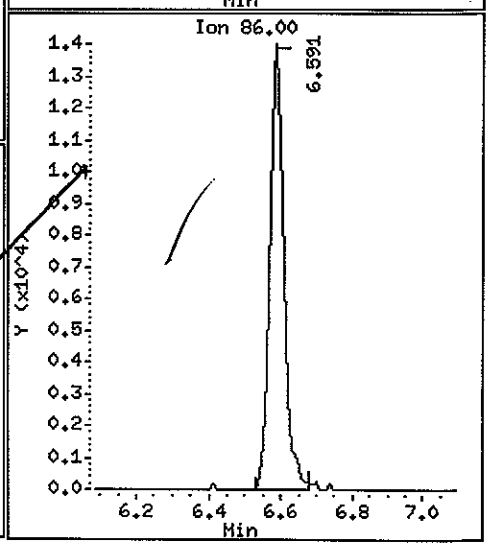












Data File: \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D

Date : 05-AUG-2004 18:55

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: S,173857-002

Purge Volume: 5.0

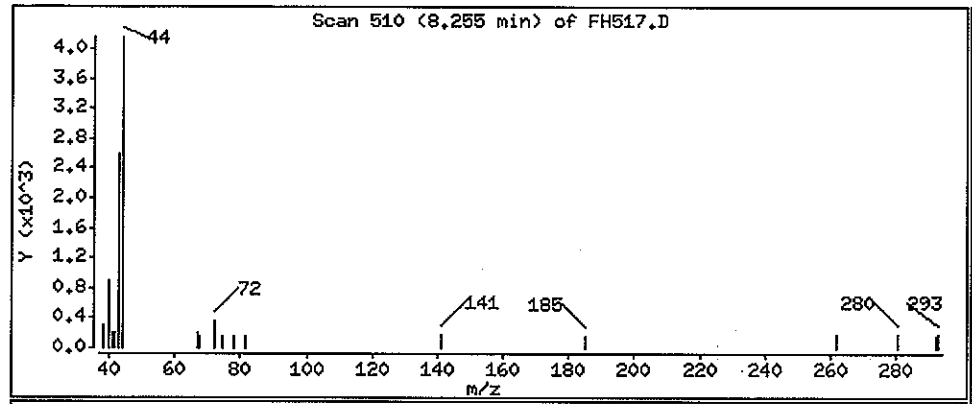
Operator: VOC

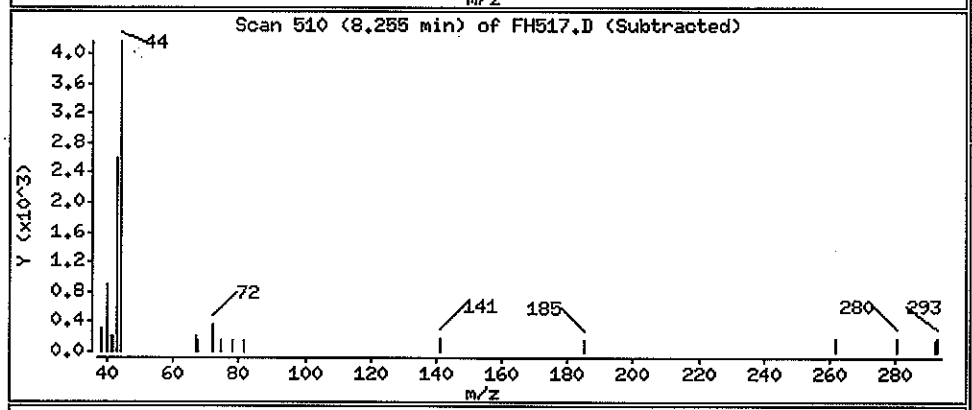
Column phase: RTx Volatiles

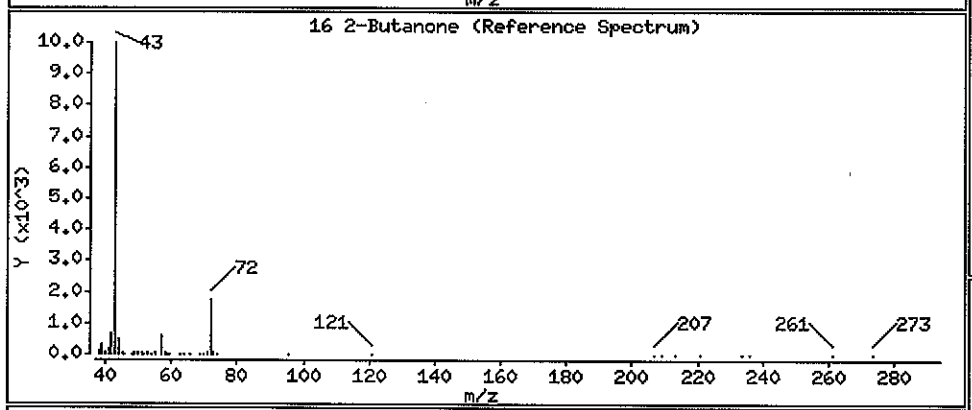
Column diameter: 0.32

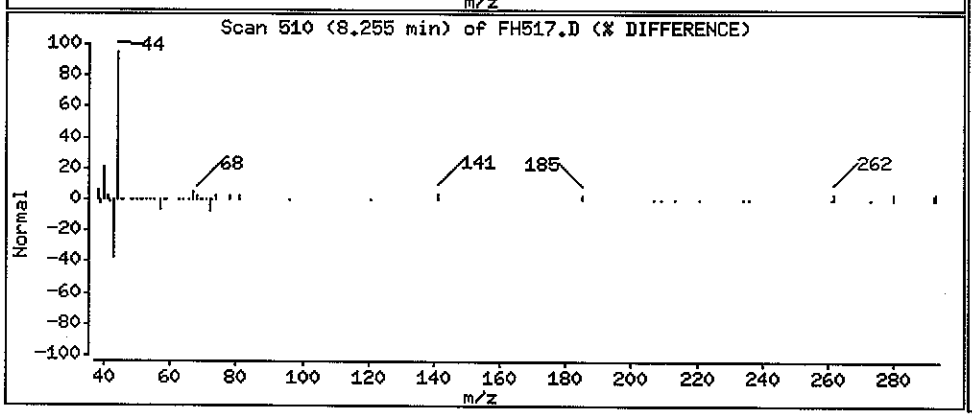
16 2-Butanone

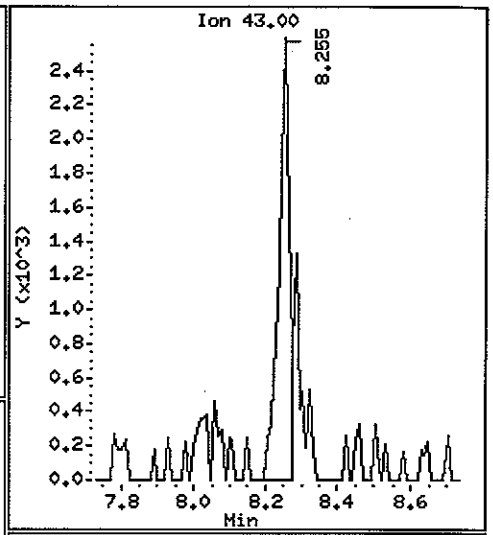
Concentration: 0.3253 UG/L

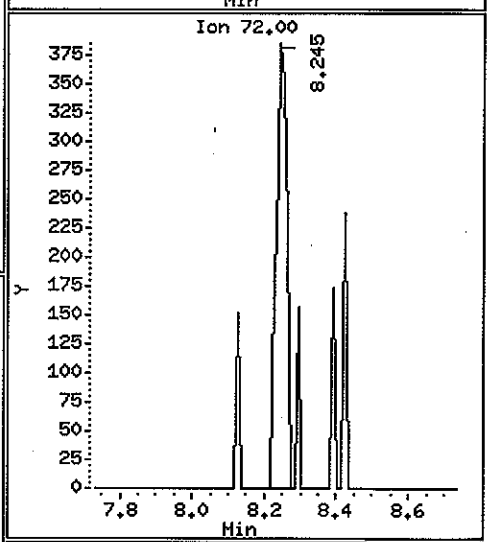


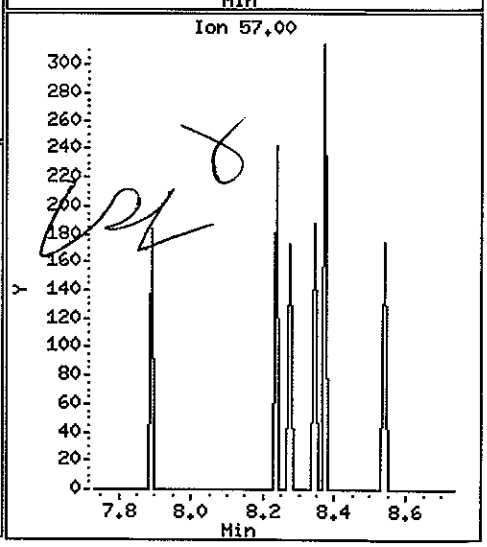












Data File: \\Gcmsserver\DD\chem\MSVOA06.i\080504.b\FH517.D

Date : 05-AUG-2004 18:55

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: S,173857-002

Purge Volume: 5.0

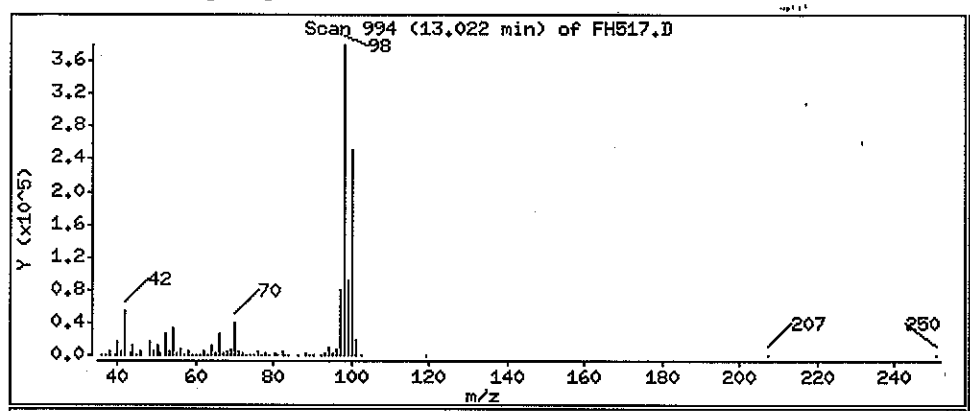
Operator: VOC

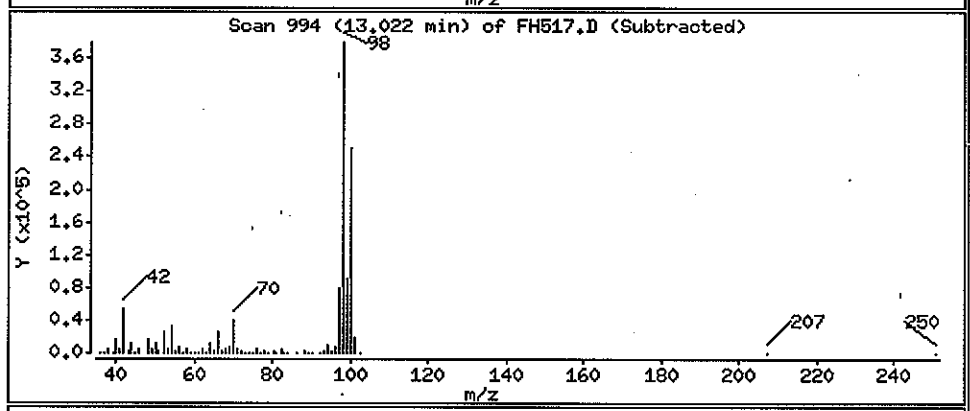
Column phase: RTx Volatiles

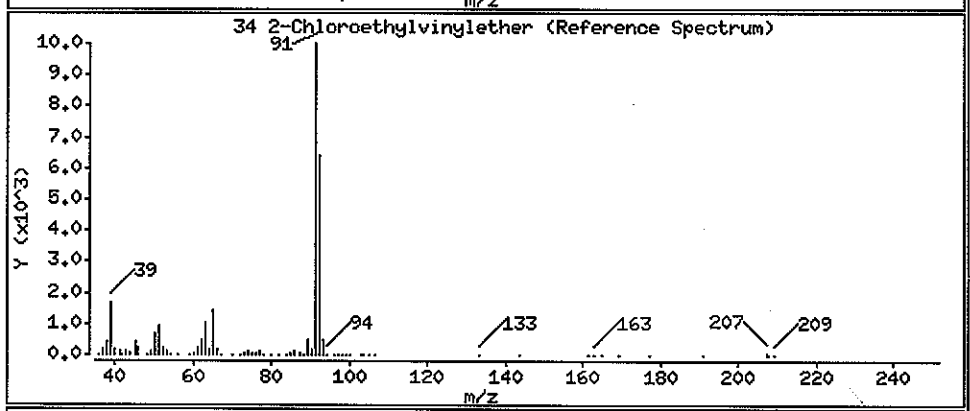
Column diameter: 0.32

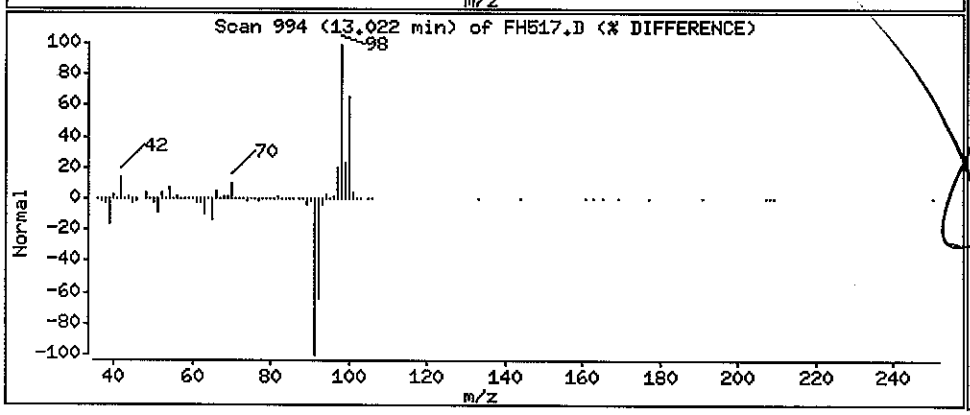
34 2-Chloroethylvinylether

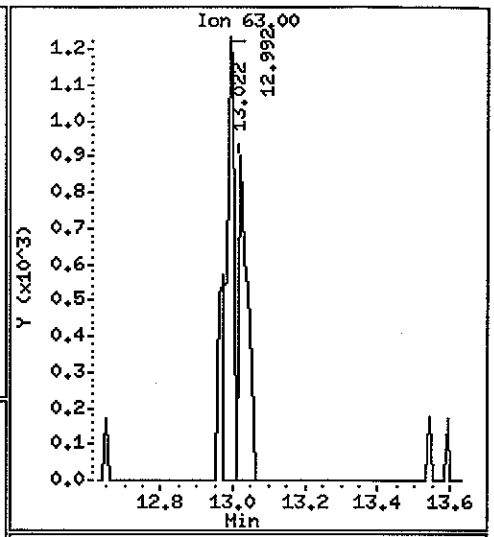
Concentration: 0.2227 UG/L

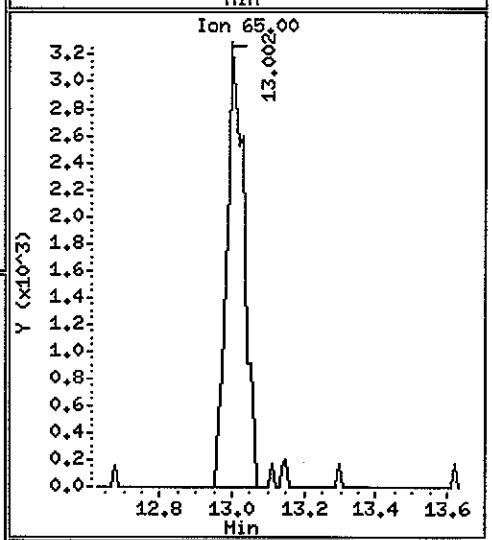


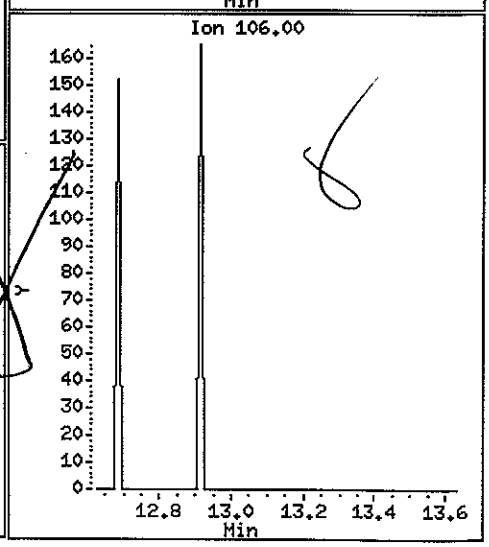












QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA06	Samplenum:	QC260268	Cident	:
Seqnum	: 454314501005	Matrix	: Soil	Acctnum	: QC
Filename	: fh505	Batchnum	: 93511	Injected	: 05-AUG-2004 11:56
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
				Caltype	: SOIL

Analyte	Calibration	Result	RTS	RL	Flags
1,1-Dichloroethene	454284216002	ND		5.0	
Benzene	454284216002	ND		5.0	
Trichloroethene	454284216002	ND		5.0	
Toluene	454284216002	ND		5.0	
Chlorobenzene	454284216002	ND		5.0	
Freon 12	454284216002	ND		5.0	
Chloromethane	454284216002	0.21 J		5.0	
Vinyl Chloride	454284216002	ND		5.0	
Bromomethane	454284216002	~~0.21~~ J NO Result NO		5.0	
Chloroethane	454284216002	ND		5.0	
Trichlorofluoromethane	454284216002	ND		5.0	
Acetone	454284216002	1.3 J		10	
Freon 113	454284216002	ND		5.0	
Methylene Chloride	454284216002	0.83 J		10	
MTBE	454284216002	ND		5.0	!c-
Carbon Disulfide	454284216002	~~0.10~~ J NO Result NO		5.0	
trans-1,2-Dichloroethene	454284216002	ND		5.0	
Vinyl Acetate	454284216002	~~1.0~~ J NO	-0.280	10	x
1,1-Dichloroethane	454284216002	ND		5.0	
2-Butanone	454284216002	~~0.25~~ J NO Result NO		10	
cis-1,2-Dichloroethene	454284216002	ND		5.0	
2,2-Dichloropropane	454284216002	ND		5.0	
Chloroform	454284216002	ND		5.0	
Bromochloromethane	454284216002	ND		5.0	
1,1,1-Trichloroethane	454284216002	ND		5.0	
1,1-Dichloropropene	454284216002	ND		5.0	
Carbon Tetrachloride	454284216002	ND		5.0	
1,2-Dichloroethane	454284216002	ND		5.0	
1,2-Dichloropropane	454284216002	ND		5.0	
Bromodichloromethane	454284216002	ND		5.0	
Dibromomethane	454284216002	ND		5.0	
2-Chloroethylvinylether	453472922001	ND		10	! ?c irf rsd b*
4-Methyl-2-Pentanone	454284216002	ND		10	
cis-1,3-Dichloropropene	454284216002	ND		5.0	
trans-1,3-Dichloropropene	454284216002	ND		5.0	
1,1,2-Trichloroethane	454284216002	ND		5.0	
2-Hexanone	454284216002	ND		10	
1,3-Dichloropropane	454284216002	ND		5.0	
Tetrachloroethene	454284216002	ND		5.0	
Dibromochloromethane	454284216002	ND		5.0	
1,2-Dibromoethane	454284216002	ND		5.0	
1,1,1,2-Tetrachloroethane	454284216002	ND		5.0	
Ethylbenzene	454284216002	ND		5.0	
m,p-Xylenes	454284216002	ND		5.0	
o-Xylene	454284216002	ND		5.0	

!=warning -=low bias ?=missing b=noncompliant c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure x=false positive

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA06	Samplenum:	QC260268	Cident	:
Seqnum	: 454314501005	Matrix	: Soil	Acctnum	: QC
Filename	: fh505	Batchnum	: 93511	Injected	: 05-AUG-2004 11:56
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
				Caltype	: SOIL

Analyte	Calibration	Result	RTS	RL	Flags
Styrene	454284216002	ND		5.0	
Bromoform	454284216002	ND		5.0	
Isopropylbenzene	454284216002	ND		5.0	
1,1,2,2-Tetrachloroethane	454284216002	ND		5.0	
1,2,3-Trichloropropane	454284216002	ND		5.0	
Propylbenzene	454284216002	ND		5.0	
Bromobenzene	454284216002	ND		5.0	
1,3,5-Trimethylbenzene	454284216002	ND		5.0	
2-Chlorotoluene	454284216002	ND		5.0	
4-Chlorotoluene	454284216002	ND		5.0	
tert-Butylbenzene	454284216002	ND		5.0	
1,2,4-Trimethylbenzene	454284216002	ND		5.0	
sec-Butylbenzene	454284216002	ND		5.0	
para-Isopropyl Toluene	454284216002	ND		5.0	
1,3-Dichlorobenzene	454284216002	ND		5.0	
1,4-Dichlorobenzene	454284216002	ND		5.0	
n-Butylbenzene	454284216002	ND		5.0	
1,2-Dichlorobenzene	454284216002	ND		5.0	
1,2-Dibromo-3-Chloropropane	454284216002	ND		5.0	!c-
1,2,4-Trichlorobenzene	454284216002	ND		5.0	
Hexachlorobutadiene	454284216002	ND		5.0	
Naphthalene.....	454284216002	0.16 J		5.0	
1,2,3-Trichlorobenzene	454284216002	ND		5.0	

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	454284216002	50.00	49.47	99	80-120	
1,2-Dichloroethane-d4	454284216002	50.00	46.96	94	80-120	
Toluene-d8	454284216002	50.00	49.45	99	80-120	
Bromofluorobenzene	454284216002	50.00	48.69	97	80-123	

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1342735	4.83	9.02	9.01	-0.01
1,4-Difluorobenzene	2124066	2255491	6.19	10.51	10.50	-0.01
Chlorobenzene-d5	1735753	1841343	6.08	15.53	15.52	-0.01
1,4-Dichlorobenzene-d4	863989	876852	1.49	19.83	19.82	-0.01

!=warning -=low bias ?=missing b=noncompliant c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure x=false positive

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D
Report Date: 05-Aug-2004 13:00

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 11:56 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : MB,QC260268
Misc Info : 93511,5/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
2 Chloromethane	50	3.666	3.675	(0.407)	4756	0.21425	0.2142(a)
4 Bromomethane	94	4.532	4.502	(0.503)	4094	0.30648	0.3064(a)
7 Acetone	43	5.655	5.645	(0.627)	13821	1.29475	1.2947
10 Methylene Chloride	84	6.581	6.590	(0.730)	16679	0.82874	0.8287
11 Carbon Disulfide	76	6.679	6.679	(0.741)	5782	0.10076	0.1007(a)
14 Vinyl Acetate	43	7.369	7.654	(0.818)	52921	1.04935	1.0493
16 2-Butanone	43	8.245	8.235	(0.915)	4159	0.25060	0.2506(a)
* 20 Pentafluorobenzene	168	9.013	9.023	(1.000)	1342735	50.0000	
$ 22 Dibromofluoromethane	113	9.112	9.111	(1.011)	1021229	49.4731	49.4731
$ 25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.938)	872546	46.9582	46.9582
* 29 1,4-Difluorobenzene	114	10.500	10.510	(1.000)	2255491	50.0000	
34 2-Chloroethylvinylether	63	13.021	13.129	(1.240)	1030	0.16908	0.1690(a)
$ 37 Toluene-d8	98	12.992	13.001	(1.237)	2239072	49.4520	49.4519
* 46 Chlorobenzene-d5	117	15.523	15.532	(1.000)	1841343	50.0000	
$ 57 Bromofluorobenzene	95	17.650	17.659	(0.891)	929014	48.6899	48.6898
* 69 1,4-Dichlorobenzene-d4	152	19.817	19.826	(1.000)	876852	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D
Report Date: 05-Aug-2004 13:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
76 Naphthalene	128	23.854	23.854	(1.204)	5907	0.15999	0.1599(a)
77 1,2,3-Trichlorobenzene	180	24.278	24.277	(1.225)	1671	0.10353	0.1035(a)

QC Flag Legend

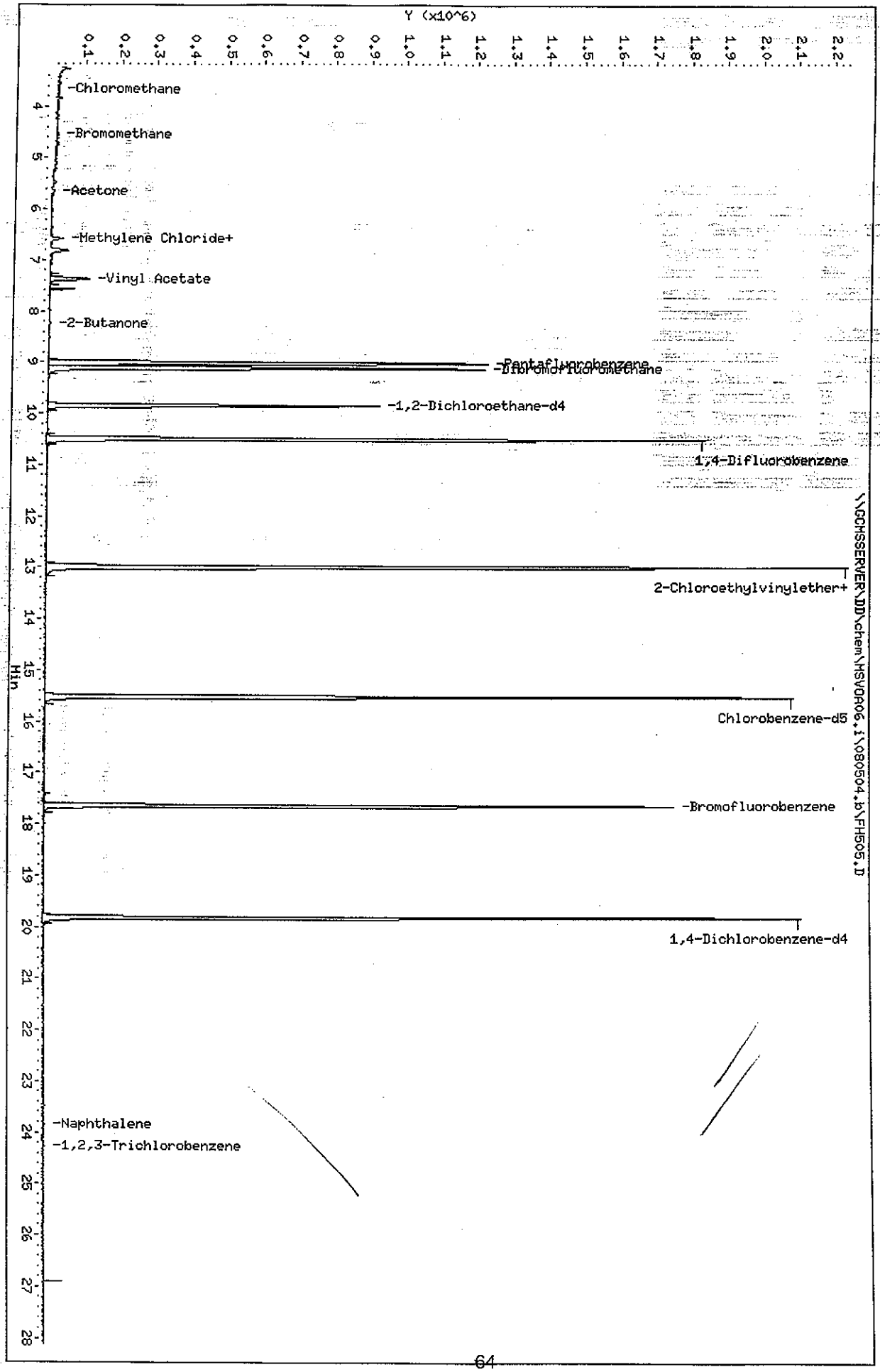
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D
Report Date: 05-Aug-2004 13:00

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 11:56 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : MB,QC260268
Misc Info : 93511,5/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -


Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D
Date : 05-AUG-2004 11:56
Client ID: DYNA P&T
Sample Info: MB,QC260268
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32
Y (x10^6)
Min
-Chloromethane
-Bromomethane
-Acetone
-Methylene Chloride+
-Vinyl Acetate
-2-Butanone
-Pentafluorobenzene
-Dibromofluoromethane
-1,2-Dichloroethane-d4
1,4-Difluorobenzene
2-Chloroethylvinylether+
Chlorobenzene-d5
-Bromofluorobenzene
1,4-Dichlorobenzene-d4
-Naphthalene
-1,2,3-Trichlorobenzene
\\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

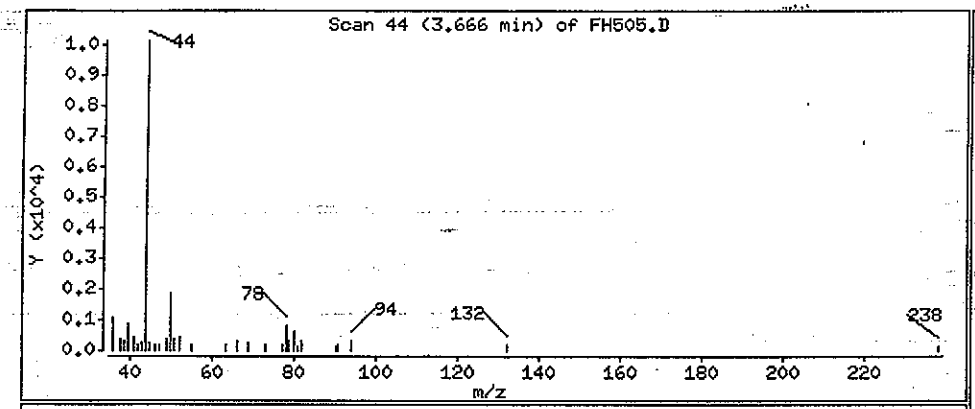
Client ID: DYNA P&T | Instrument: MSVOA06.i

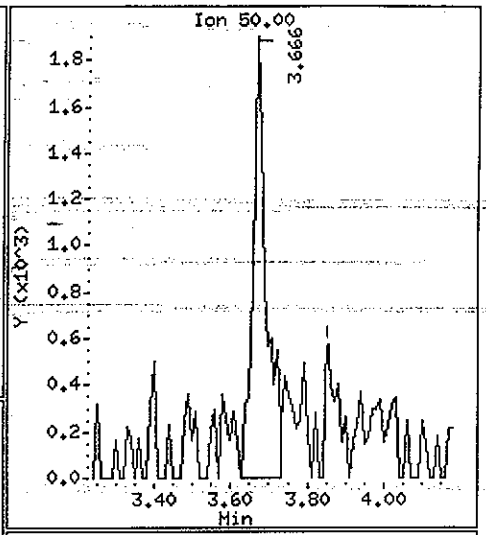
Sample Info: MB,QC260268

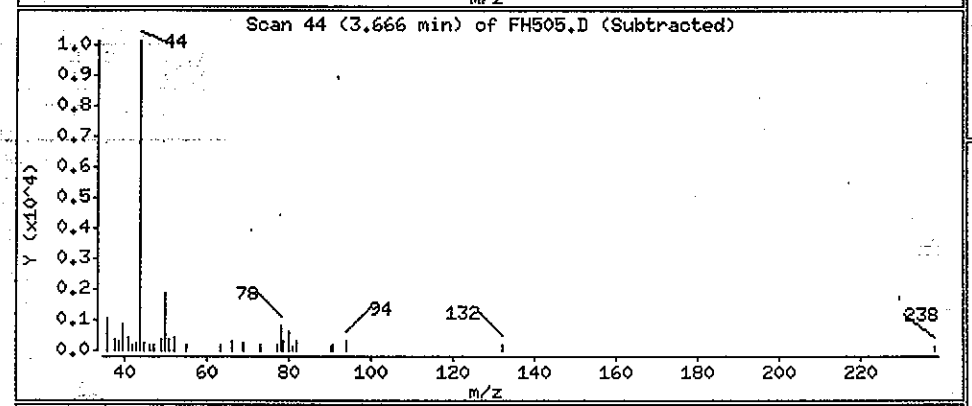
Purge Volume: 5.0 | Operator: VOA

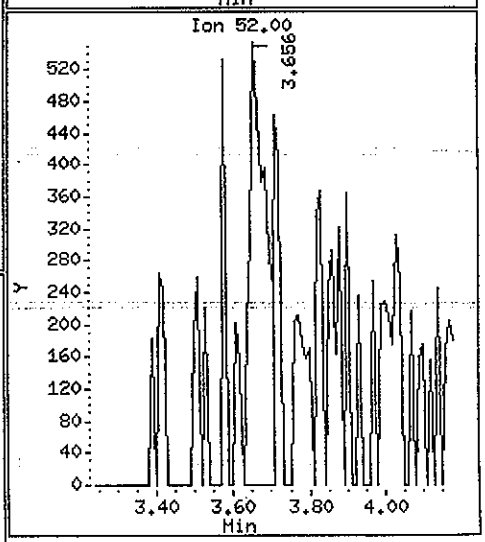
Column phase: RTx Volatiles | Column diameter: 0.32

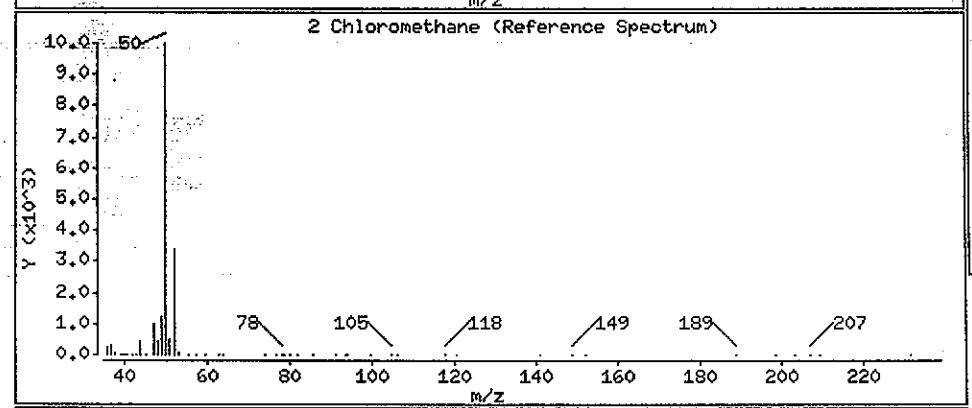
2 Chloromethane | Concentration: 0.2142 UG/L

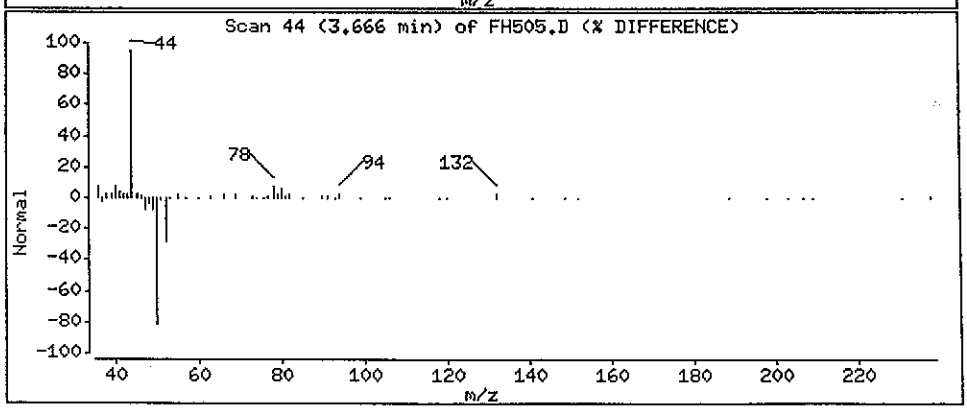












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: MB,QC260268

Purge Volume: 5.0

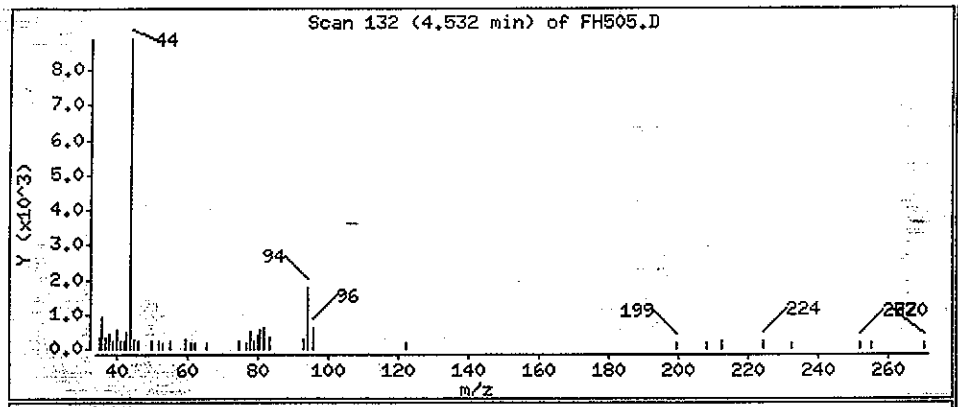
Operator: VOA

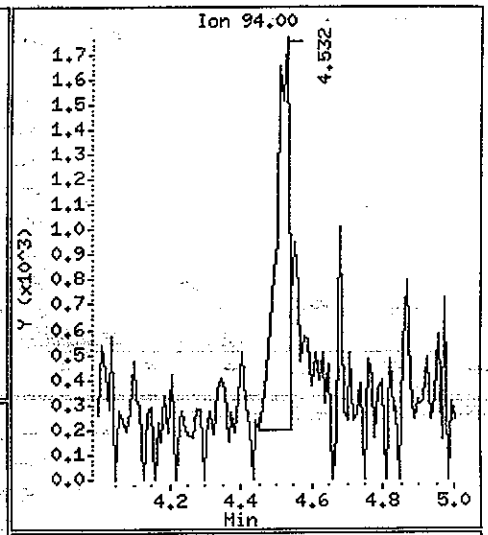
Column phase: RTx Volatiles

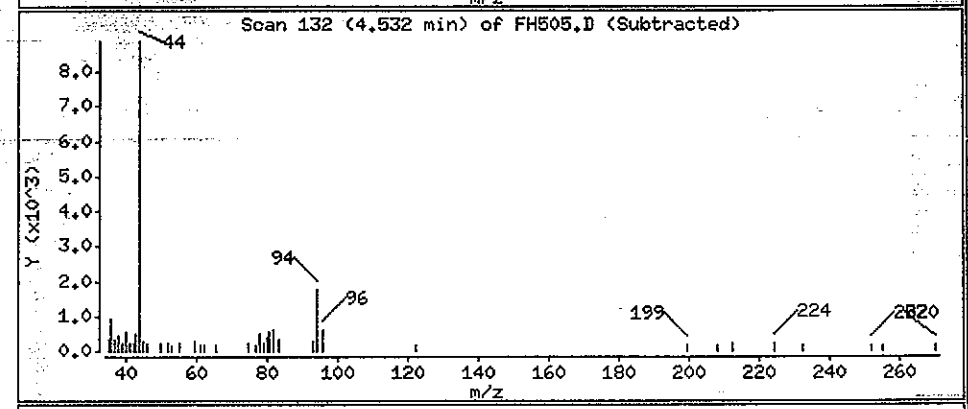
Column diameter: 0.32

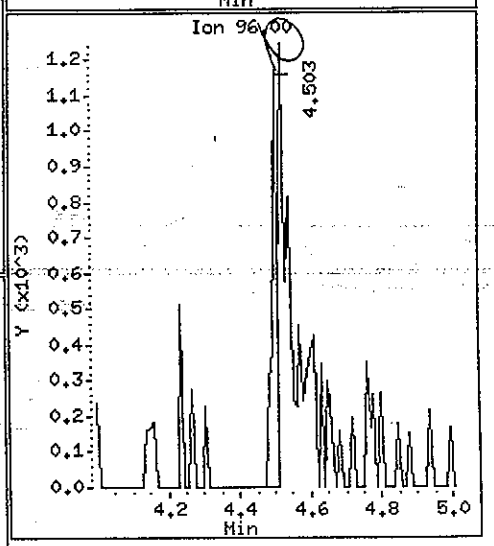
4 Bromomethane

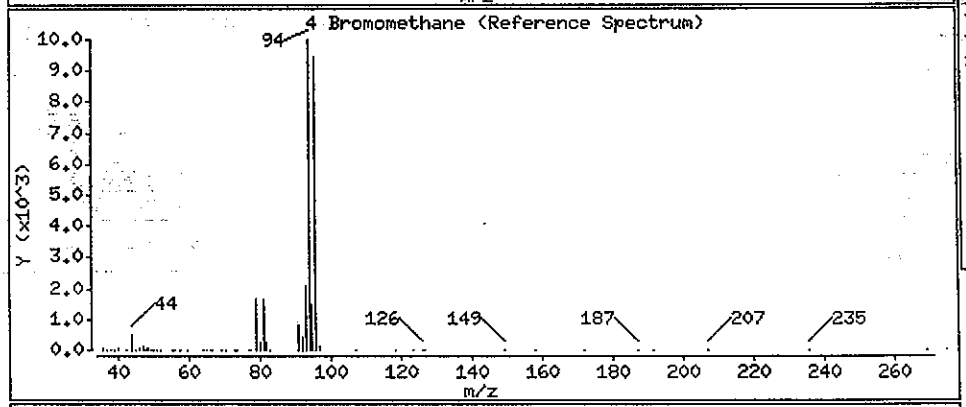
Concentration: 0.3064 UG/L

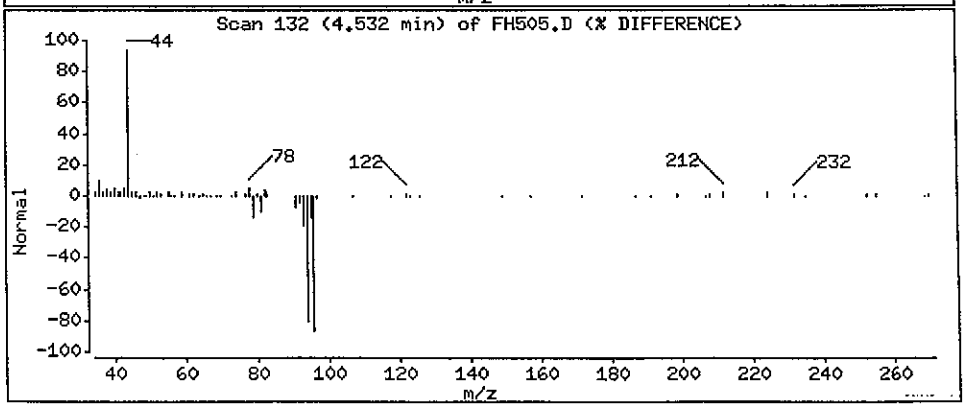












Data File: \\GCMSSERVER\DD\chem\MS.JA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: MB,QC260268

Purge Volume: 5.0

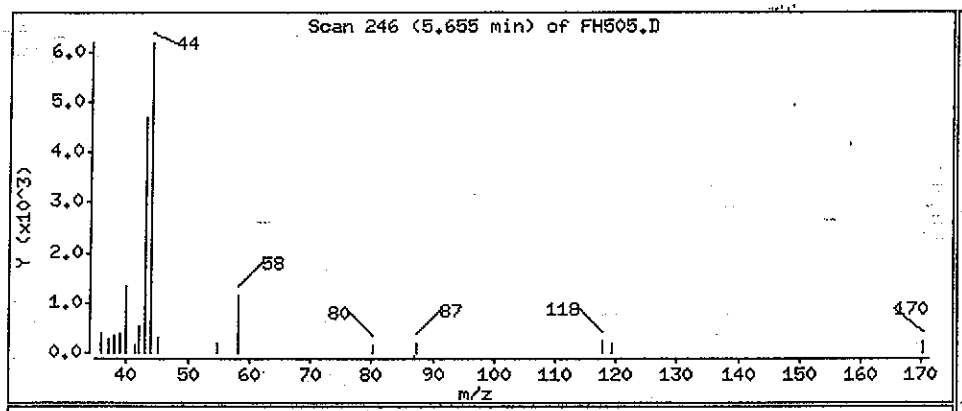
Operator: VOA

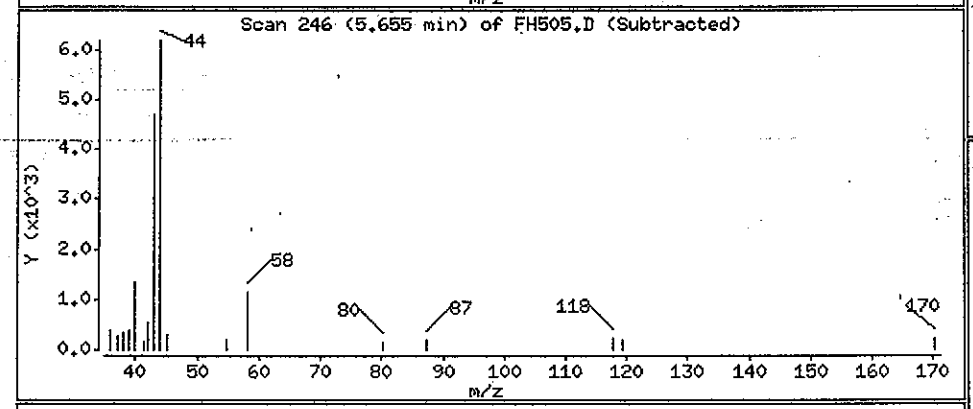
Column phase: RTx Volatiles

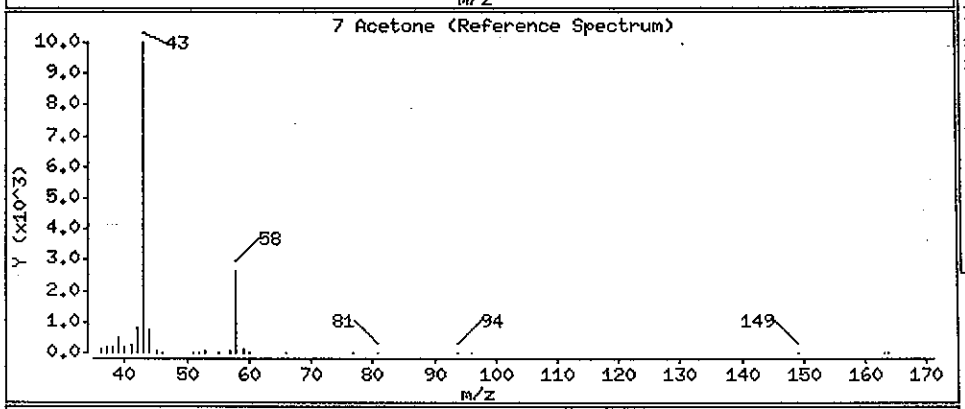
Column diameter: 0.32

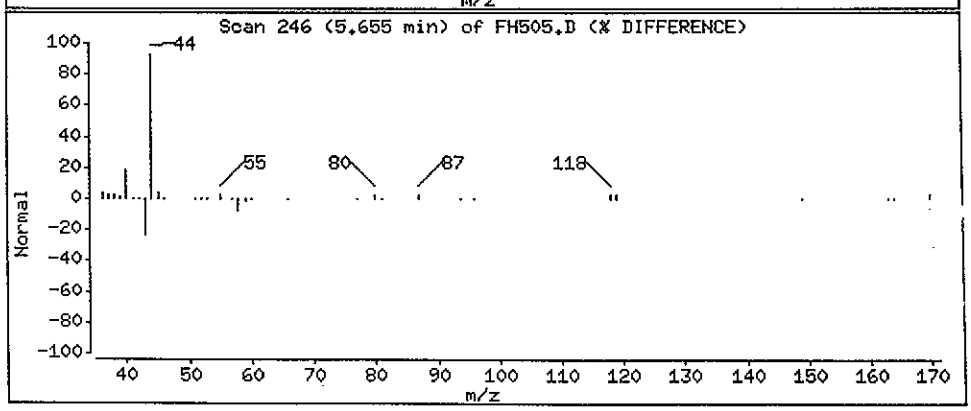
7 Acetone

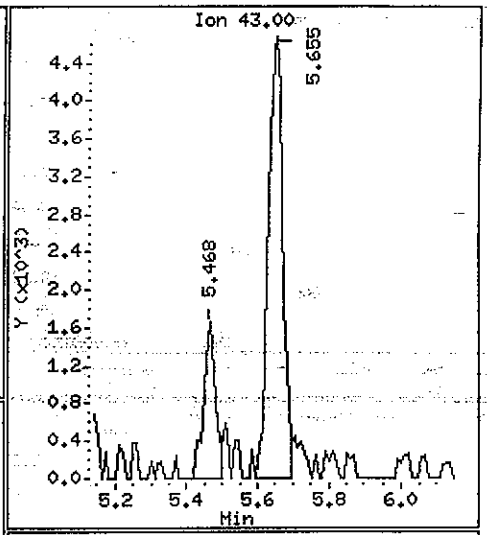
Concentration: 1.2947 UG/L

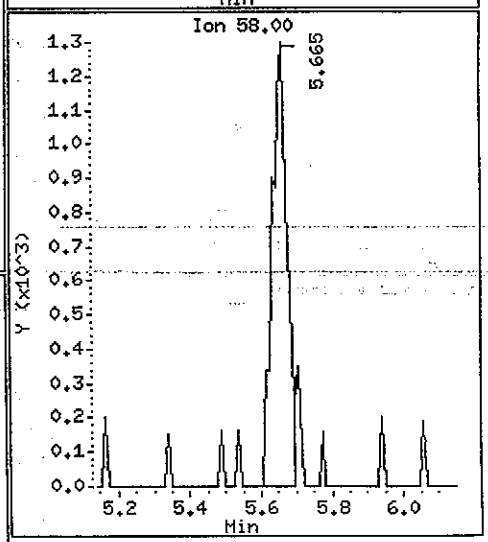












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: MB,QC260268

Purge Volume: 5.0

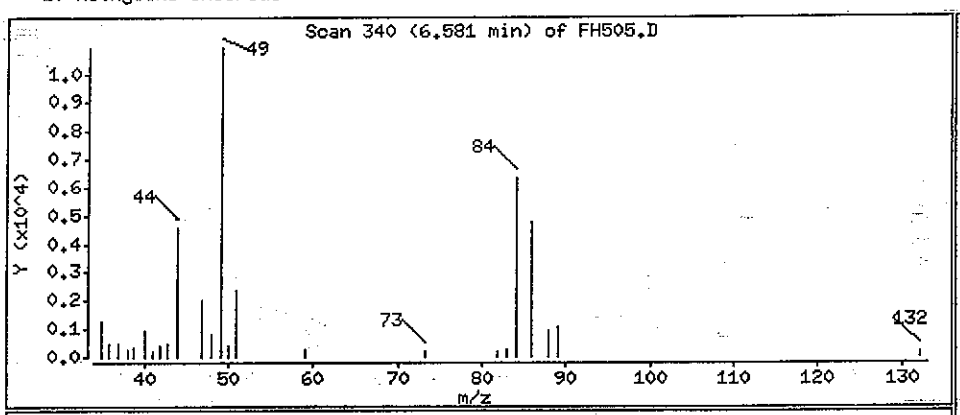
Operator: VOA

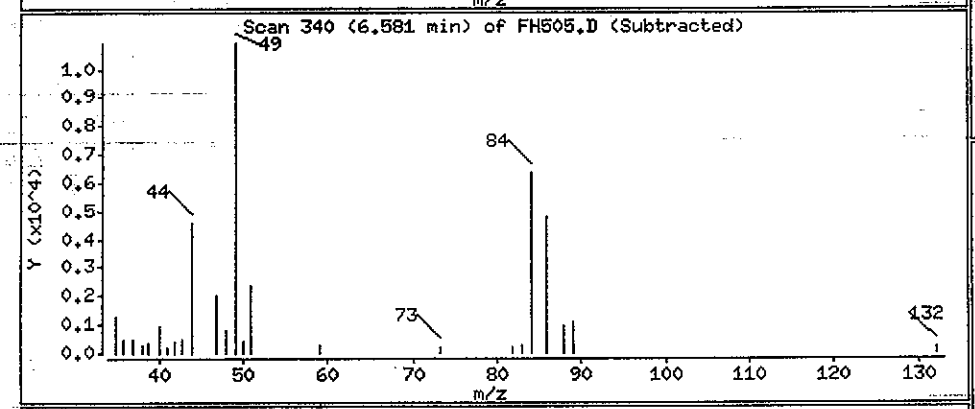
Column phase: RTx Volatiles

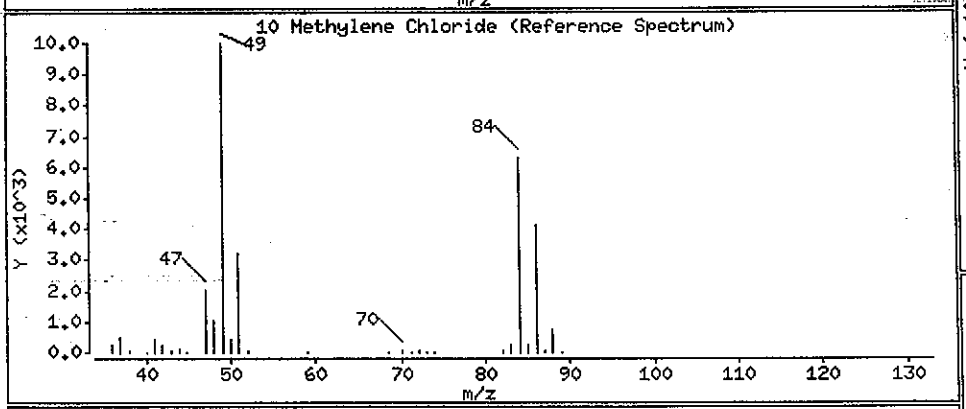
Column diameter: 0.32

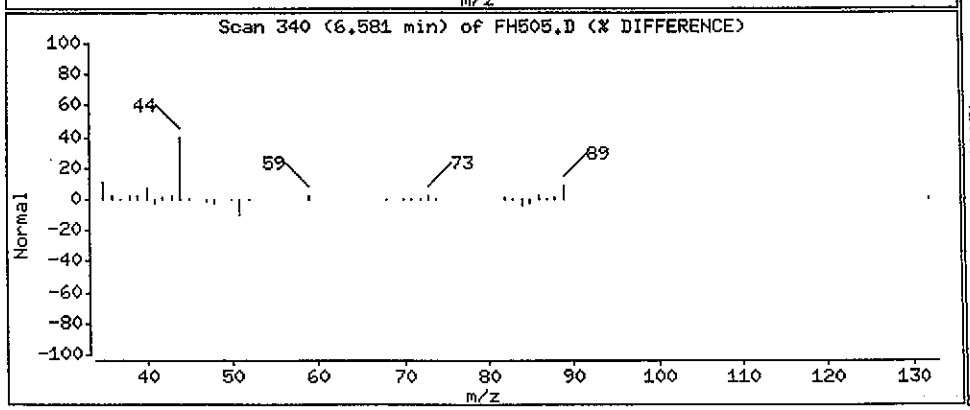
10 Methylene Chloride

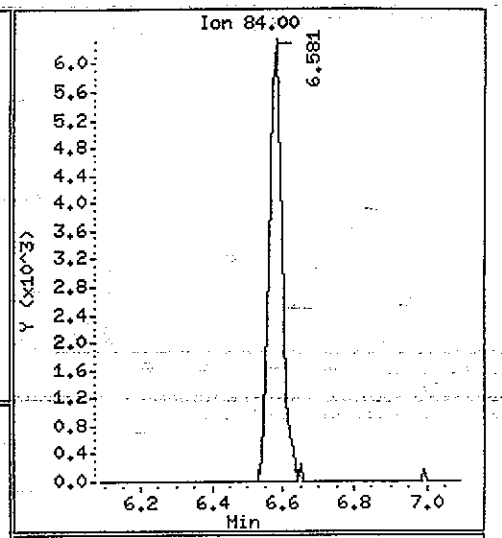
Concentration: 0.8287 UG/L

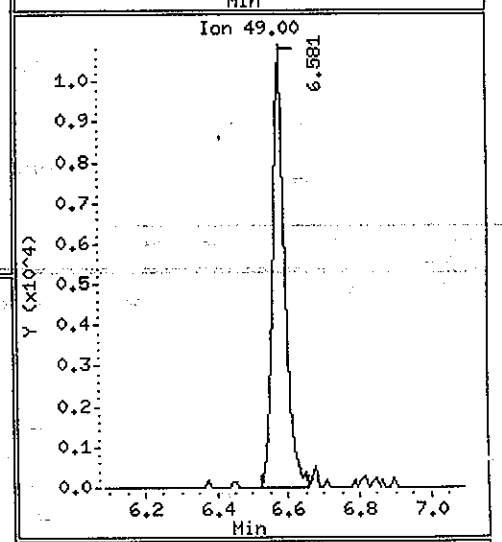


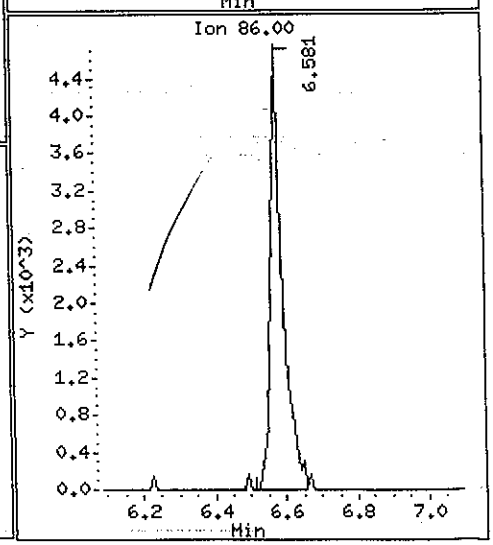












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

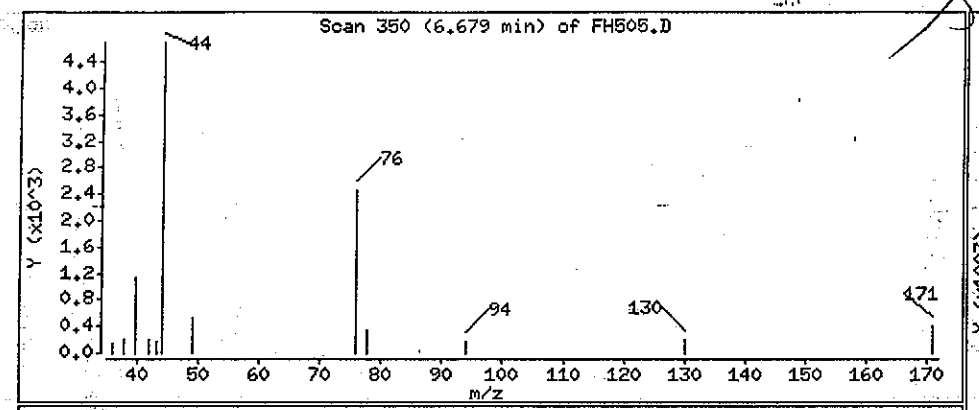
Client ID: DYNA P&T | Instrument: MSVOA06.i

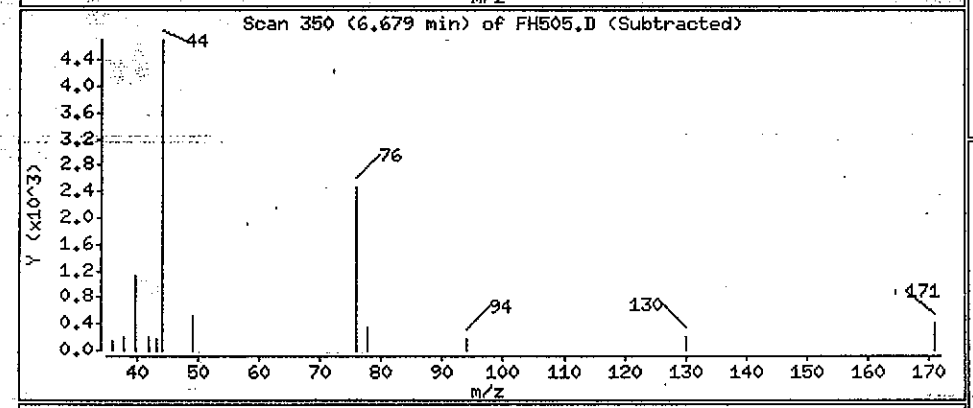
Sample Info: MB,QC260268

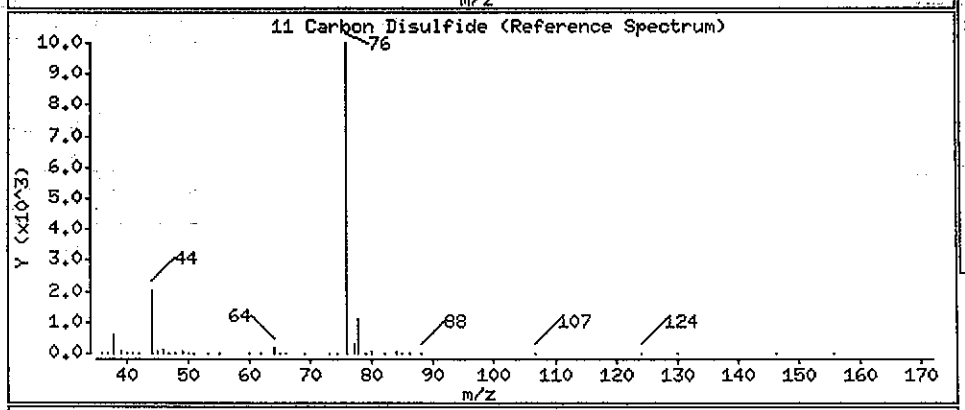
Purge Volume: 5.0 | Operator: VOA

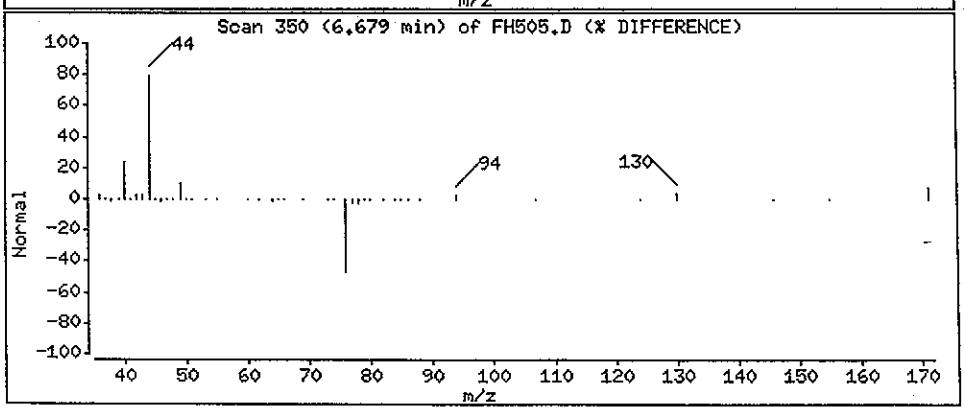
Column phase: RTx Volatiles | Column diameter: 0.32

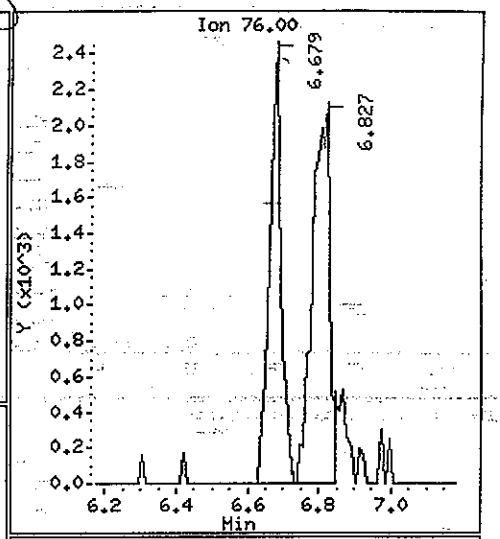
11 Carbon Disulfide | Concentration: 0.1007 UG/L

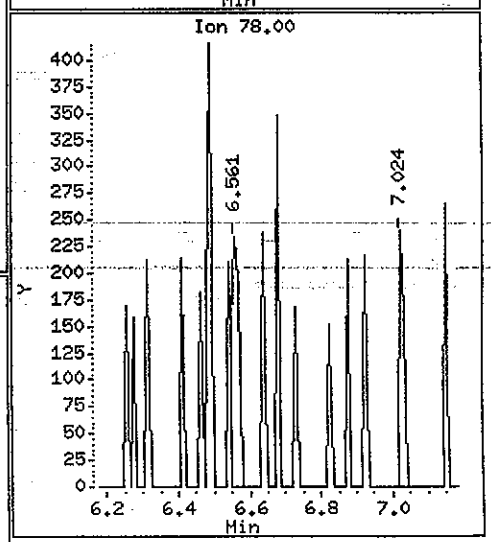












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: MB,QC260268

Purge Volume: 5.0

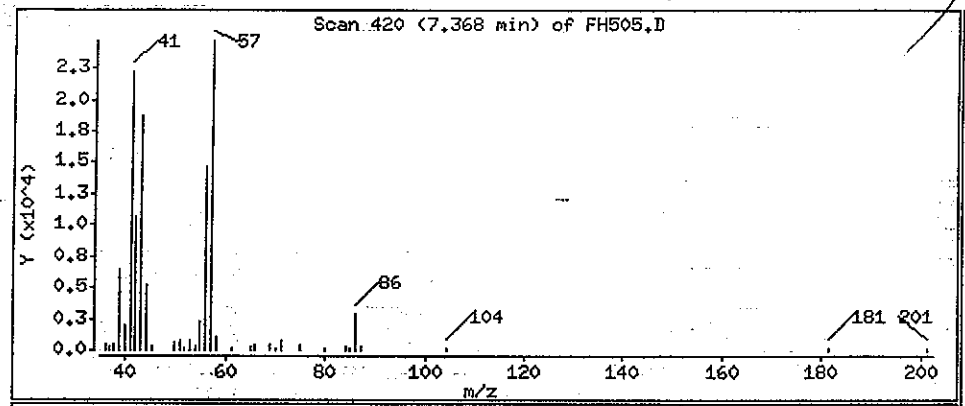
Operator: VOA

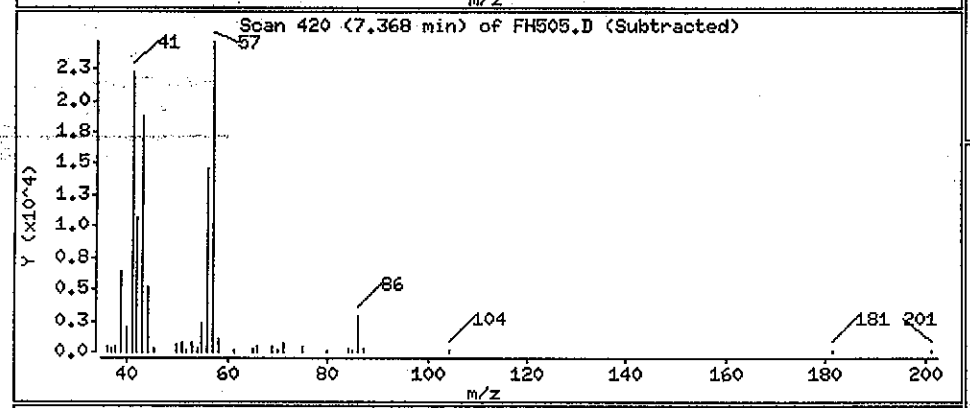
Column phase: RTx Volatiles

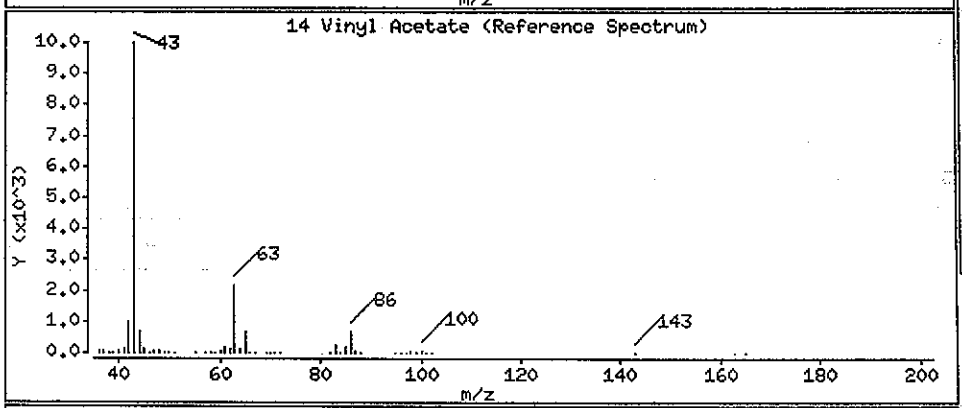
Column diameter: 0.32

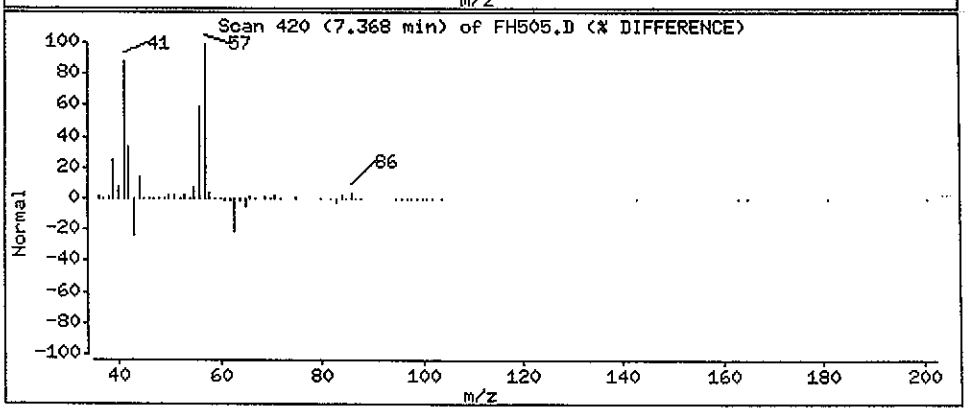
14 Vinyl Acetate

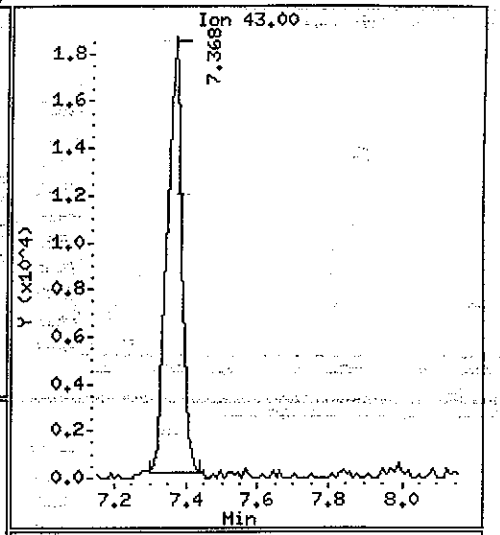
Concentration: 1.0493 UG/L

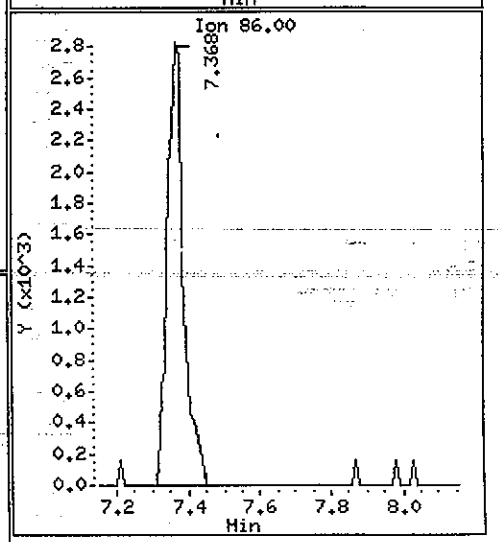












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: MB,QC260268

Purge Volume: 5.0

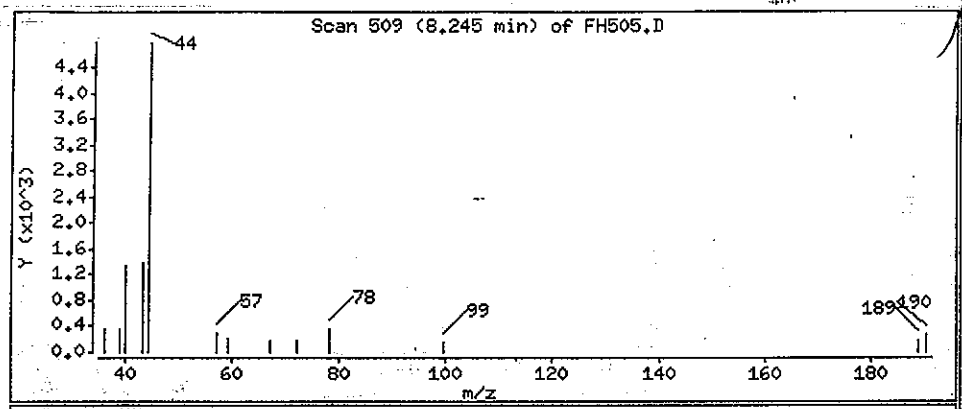
Operator: VOA

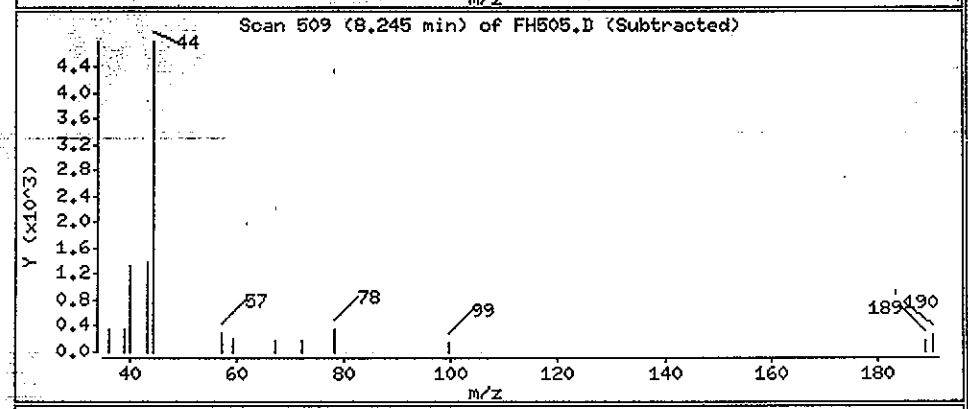
Column phase: RTx Volatiles

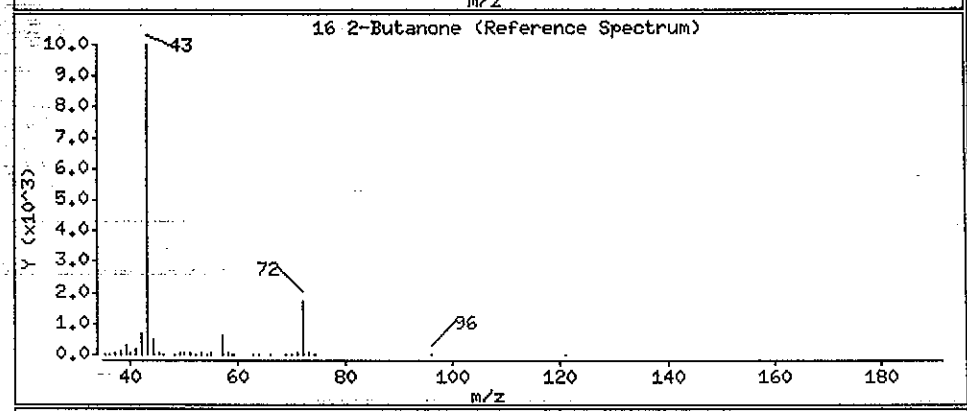
Column diameter: 0.32

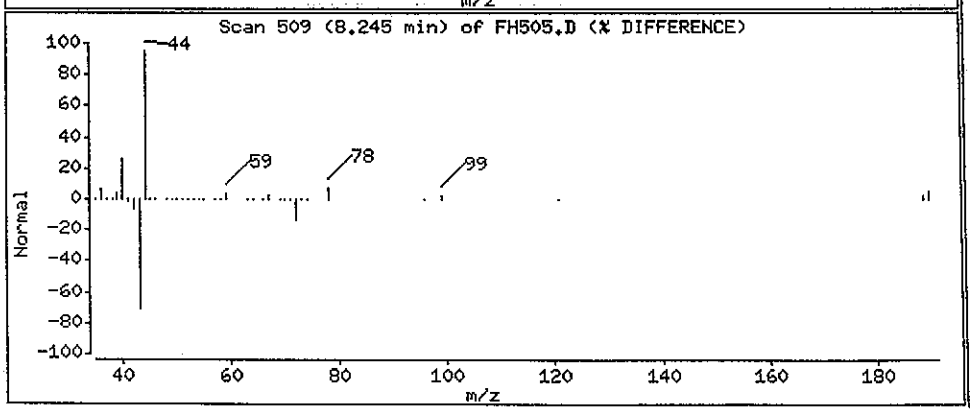
16 2-Butanone

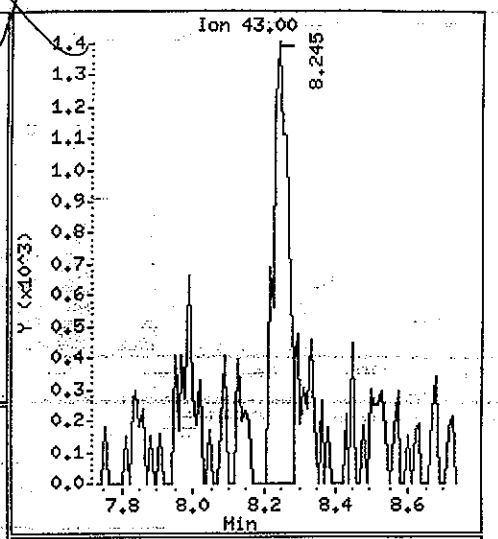
Concentration: 0.2506 UG/L

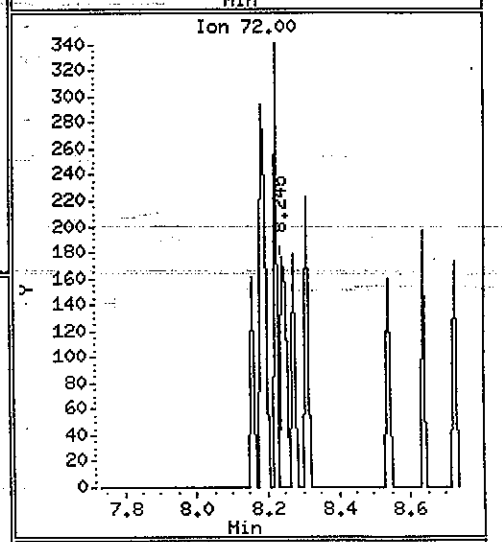


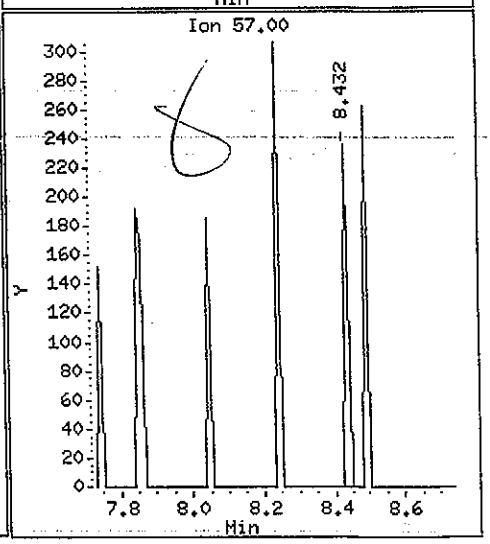












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: MB,QC260268

Purge Volume: 5.0

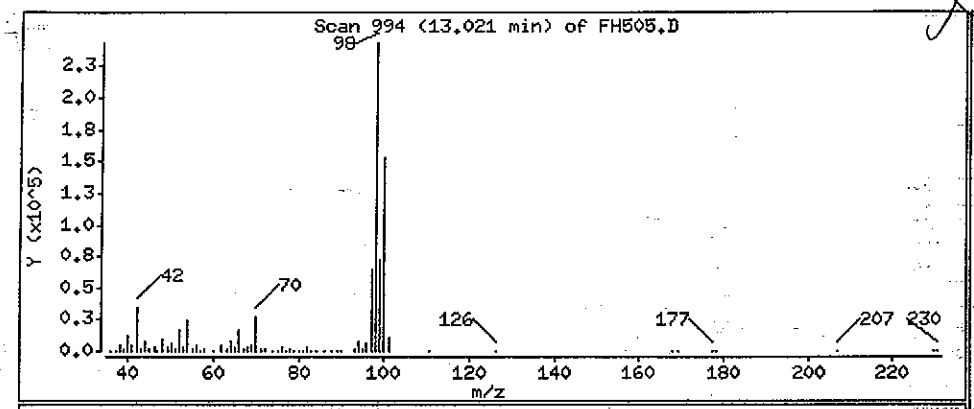
Operator: VOA

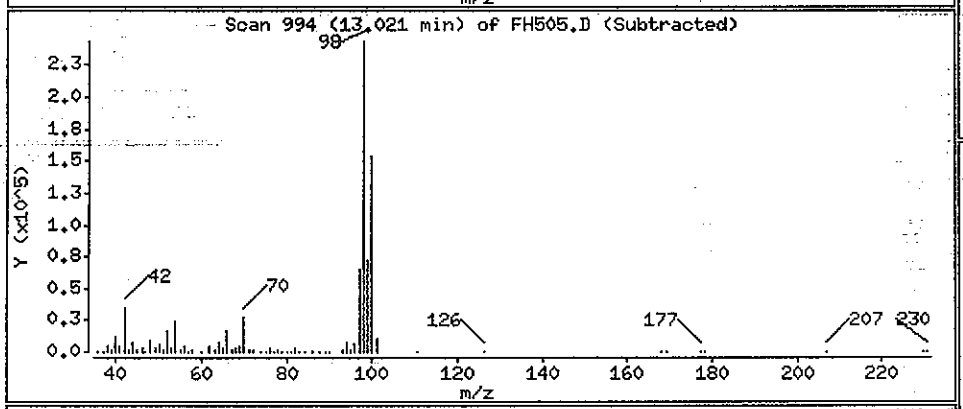
Column phase: RTx Volatiles

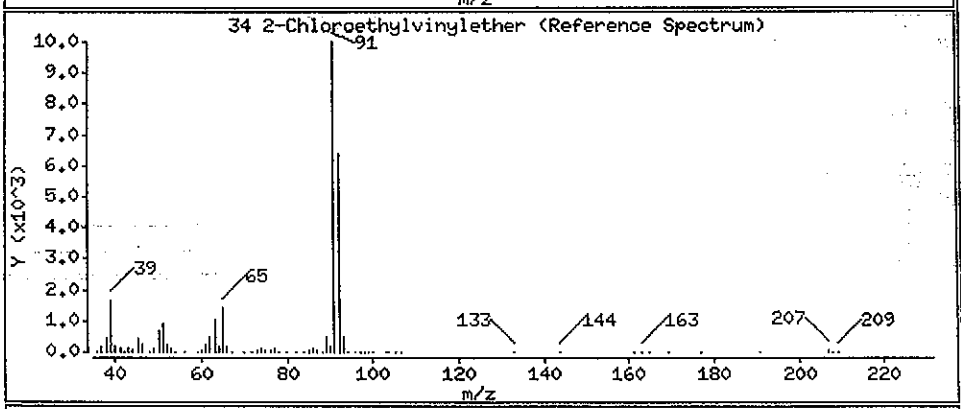
Column diameter: 0.32

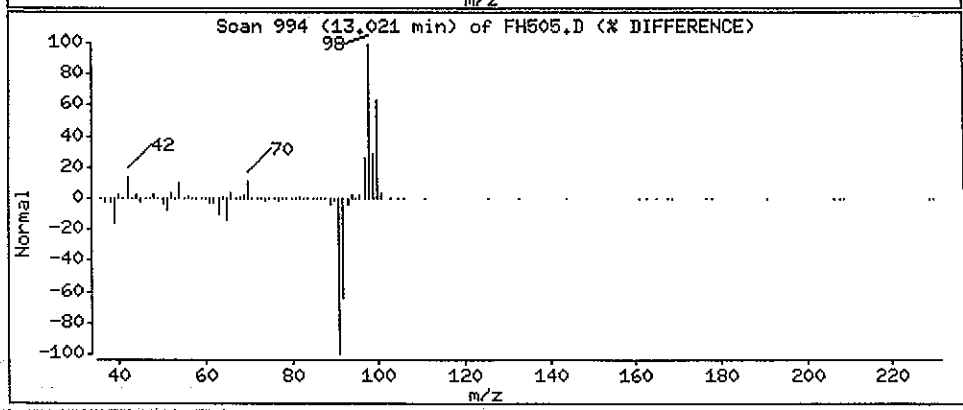
34 2-Chloroethylvinylether

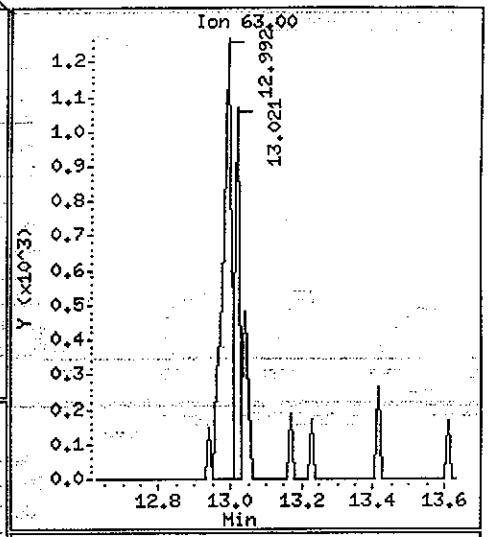
Concentration: 0.1690 UG/L

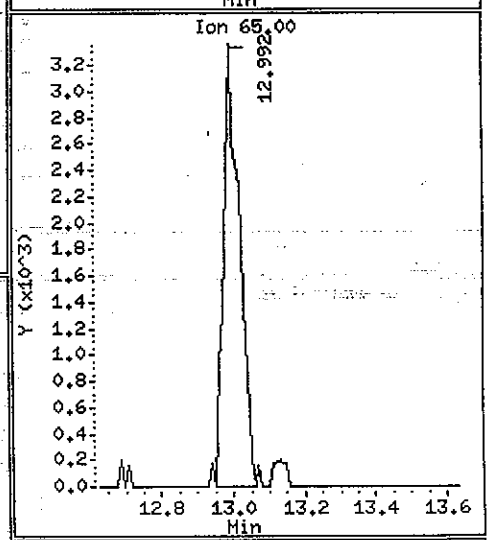


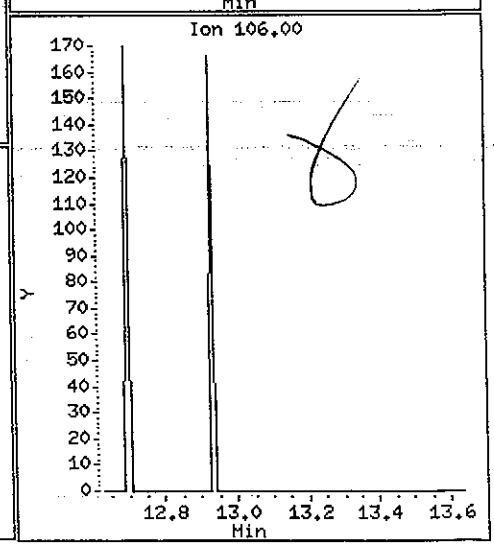












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

Client ID: DYNA P&T

Instrument: MSVOA06.i

Sample Info: MB,QC260268

Purge Volume: 5.0

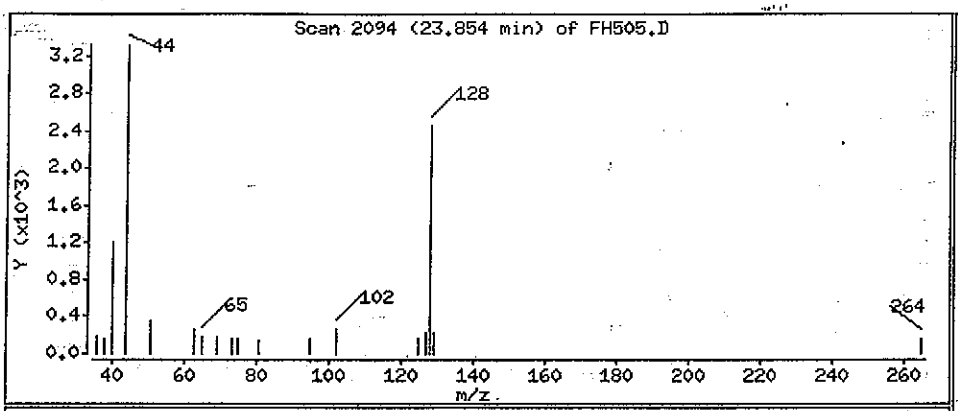
Operator: VOA

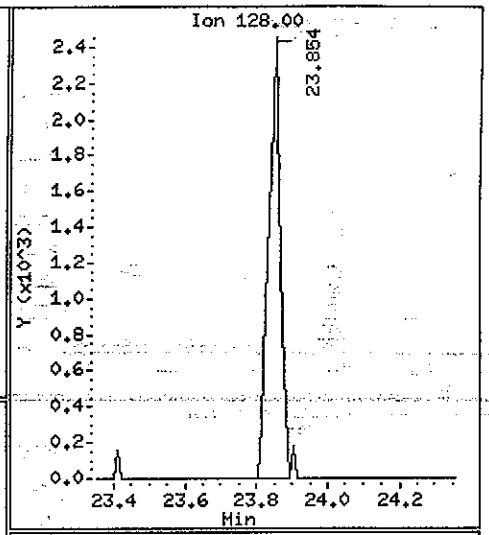
Column phase: RTx Volatiles

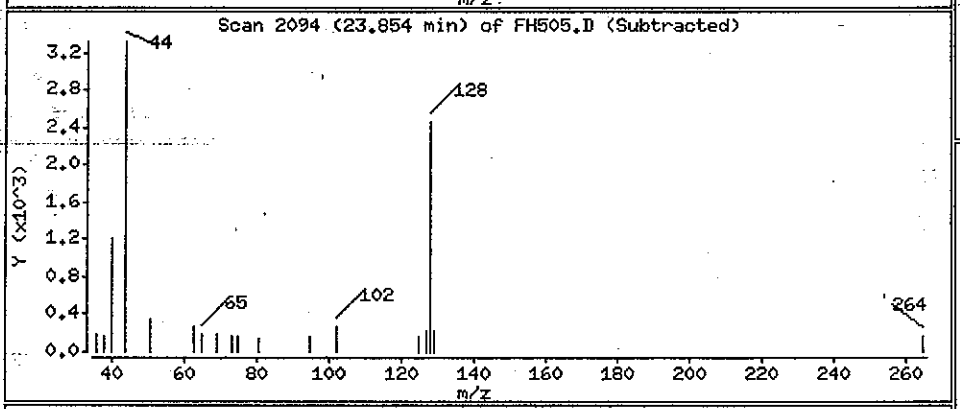
Column diameter: 0.32

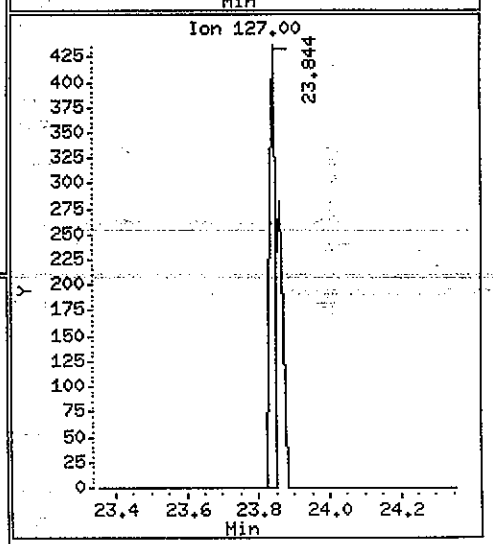
76 Naphthalene

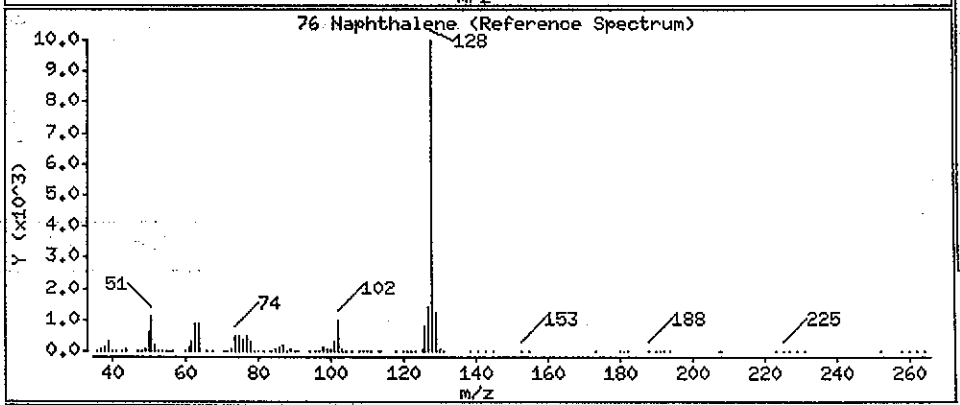
Concentration: 0.1599 UG/L

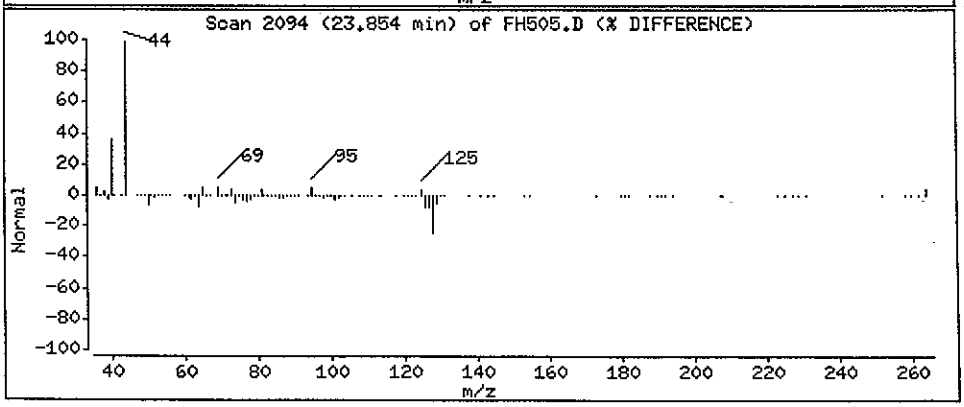












Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH505.D

Date : 05-AUG-2004 11:56

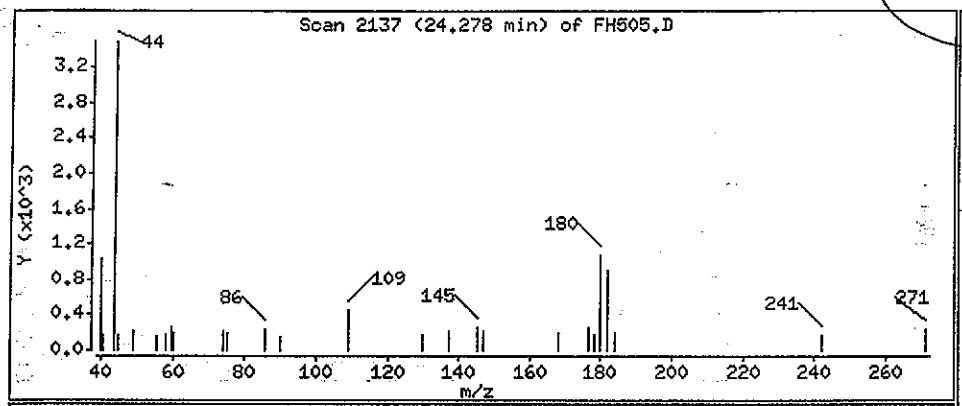
Client ID: DYNA P&T | Instrument: MSVOA06.i

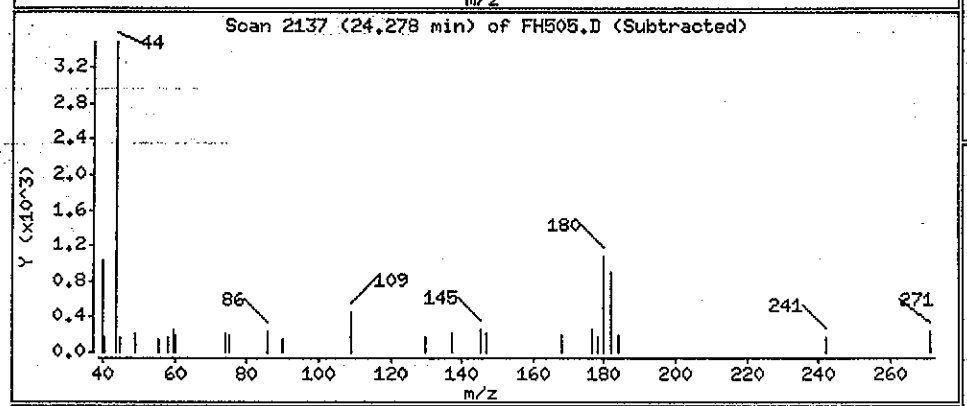
Sample Info: MB,QC260268

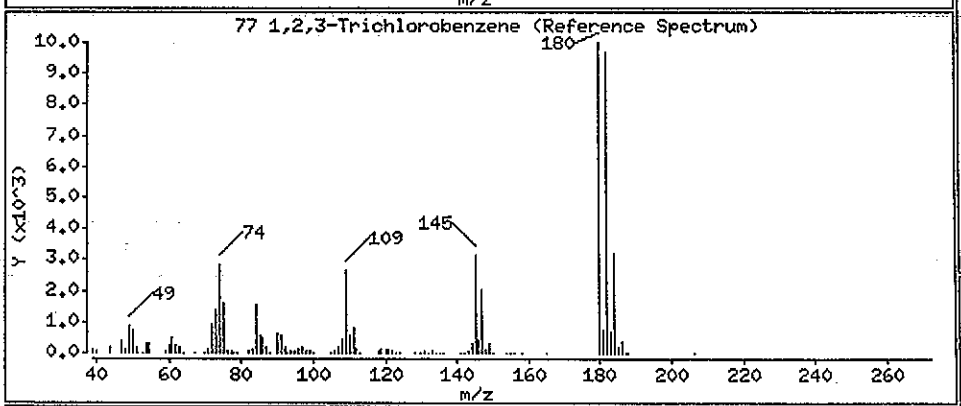
Purge Volume: 5.0 | Operator: VOA

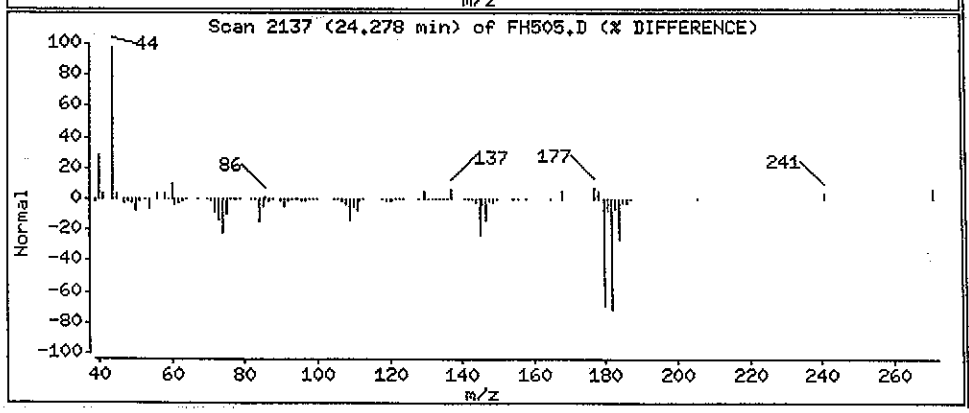
Column phase: RTx Volatiles | Column diameter: 0.32

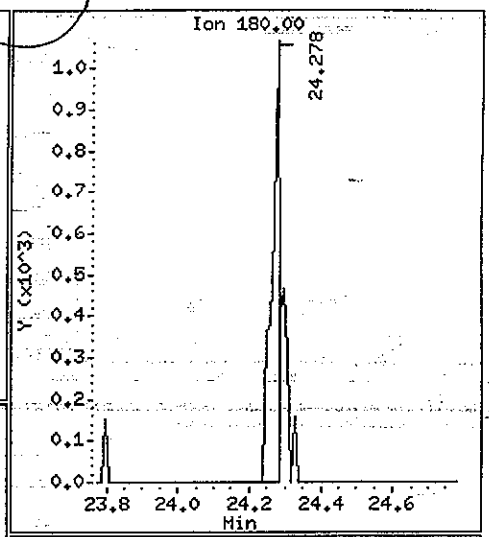
77 1,2,3-Trichlorobenzene | Concentration: 0.1035 UG/L

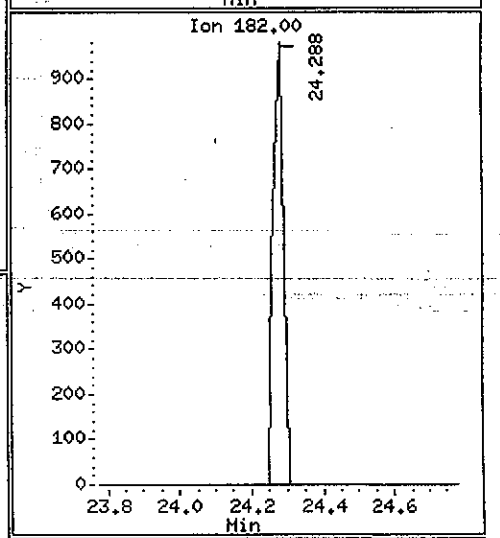


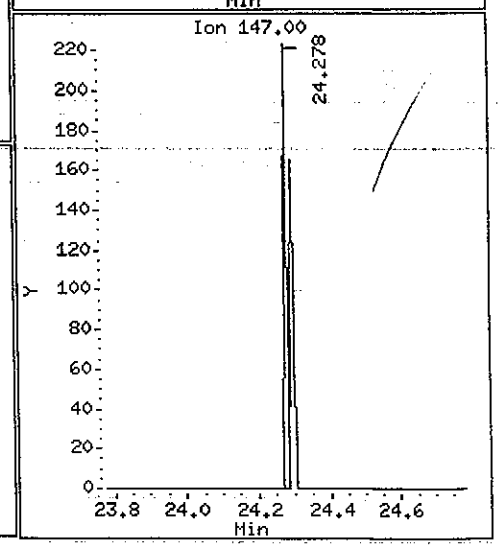












SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA06
Seqnum : 454314501003
Filename : fh503
IDF : 1.0
PDF : 1.0
Run type : LCS
Samplenum: QC260267
Matrix : Soil
Batchnum : 93511
Inj : 05-AUG-2004 10:46
Caltype : SOIL

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
1,1-Dichloroethene	50.00	51.22	102	78-120	ug/Kg	
Benzene	50.00	51.76	104	80-120	ug/Kg	
Trichloroethene	50.00	50.62	101	80-120	ug/Kg	
Toluene	50.00	50.46	101	80-120	ug/Kg	
Chlorobenzene	50.00	50.37	101	80-120	ug/Kg	
Freon 12	50.00	35.10	70	44-120	ug/Kg	
Chloromethane	50.00	40.87	82	48-120	ug/Kg	
Vinyl Chloride	50.00	39.62	79	46-120	ug/Kg	
Bromomethane	50.00	54.82	110	66-133	ug/Kg	
Chloroethane	50.00	42.77	86	68-120	ug/Kg	
Trichlorofluoromethane	50.00	51.51	103	74-127	ug/Kg	
Acetone	50.00	53.77	108	56-181	ug/Kg	
Freon 113	50.00	58.40	117	80-123	ug/Kg	
Methylene Chloride	50.00	48.40	97	71-120	ug/Kg	
MTBE	50.00	48.11	96	74-120	ug/Kg	!c-
Carbon Disulfide	50.00	45.28	91	70-120	ug/Kg	
trans-1,2-Dichloroethene	50.00	49.34	99	79-120	ug/Kg	
Vinyl Acetate	50.00	40.83	82	50-120	ug/Kg	
1,1-Dichloroethane	50.00	46.17	92	75-120	ug/Kg	
2-Butanone	50.00	40.34	81	63-149	ug/Kg	
cis-1,2-Dichloroethene	50.00	49.65	99	80-120	ug/Kg	
2,2-Dichloropropane	50.00	51.81	104	80-124	ug/Kg	
Chloroform	50.00	46.84	94	77-120	ug/Kg	
Bromochloromethane	50.00	51.22	102	80-120	ug/Kg	
1,1,1-Trichloroethane	50.00	49.94	100	80-120	ug/Kg	
1,1-Dichloropropene	50.00	51.22	102	80-120	ug/Kg	
Carbon Tetrachloride	50.00	54.87	110	80-124	ug/Kg	
1,2-Dichloroethane	50.00	47.08	94	77-120	ug/Kg	
1,2-Dichloropropane	50.00	47.75	95	80-120	ug/Kg	
Bromodichloromethane	50.00	54.12	108	80-120	ug/Kg	
Dibromomethane	50.00	52.05	104	80-120	ug/Kg	
4-Methyl-2-Pentanone	50.00	37.05	74	73-128	ug/Kg	
cis-1,3-Dichloropropene	50.00	50.89	102	80-120	ug/Kg	
trans-1,3-Dichloropropene	50.00	47.95	96	79-120	ug/Kg	
1,1,2-Trichloroethane	50.00	50.65	101	80-120	ug/Kg	
2-Hexanone	50.00	38.27	77	72-133	ug/Kg	
1,3-Dichloropropane	50.00	47.82	96	80-120	ug/Kg	
Tetrachloroethene	50.00	58.07	116	80-123	ug/Kg	
Dibromochloromethane	50.00	49.71	99	80-120	ug/Kg	

!=warning -=low bias c=CCV

08/09/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA06
Seqnum : 454314501003
Filename : fh503
IDF : 1.0
PDF : 1.0
Run type : LCS
Samplenum: QC260267
Matrix : Soil
Batchnum : 93511
Inj : 05-AUG-2004 10:46
Caltype : SOIL

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
1,2-Dibromoethane	50.00	50.87	102	80-120	ug/Kg	
1,1,1,2-Tetrachloroethane	50.00	52.14	104	80-120	ug/Kg	
Ethylbenzene	50.00	50.19	100	80-120	ug/Kg	
m,p-Xylenes	100.0	102.4	102	80-120	ug/Kg	
o-Xylene	50.00	49.73	99	80-120	ug/Kg	
Styrene	50.00	50.76	102	80-121	ug/Kg	
Bromoform	50.00	53.11	106	80-120	ug/Kg	
Isopropylbenzene	50.00	42.15	84	76-120	ug/Kg	
1,1,2,2-Tetrachloroethane	50.00	42.63	85	70-120	ug/Kg	
1,2,3-Trichloropropane	50.00	42.28	85	72-120	ug/Kg	
Propylbenzene	50.00	45.89	92	80-121	ug/Kg	
Bromobenzene	50.00	49.38	99	75-120	ug/Kg	
1,3,5-Trimethylbenzene	50.00	46.64	93	78-121	ug/Kg	
2-Chlorotoluene	50.00	45.22	90	80-120	ug/Kg	
4-Chlorotoluene	50.00	45.38	91	80-120	ug/Kg	
tert-Butylbenzene	50.00	47.89	96	80-125	ug/Kg	
1,2,4-Trimethylbenzene	50.00	46.39	93	75-126	ug/Kg	
sec-Butylbenzene	50.00	47.25	94	80-124	ug/Kg	
para-Isopropyl Toluene	50.00	46.54	93	79-122	ug/Kg	
1,3-Dichlorobenzene	50.00	49.60	99	80-120	ug/Kg	
1,4-Dichlorobenzene	50.00	49.82	100	80-120	ug/Kg	
n-Butylbenzene	50.00	46.52	93	72-133	ug/Kg	
1,2-Dichlorobenzene	50.00	48.57	97	80-120	ug/Kg	
1,2-Dibromo-3-Chloropropane	50.00	37.92	76	72-127	ug/Kg	!c-
1,2,4-Trichlorobenzene	50.00	51.71	103	65-143	ug/Kg	
Hexachlorobutadiene	50.00	55.15	110	79-134	ug/Kg	
Naphthalene	50.00	43.66	87	56-150	ug/Kg	
1,2,3-Trichlorobenzene	50.00	50.19	100	64-143	ug/Kg	
Dibromofluoromethane	50.00	47.86	96	80-120	ug/Kg	
1,2-Dichloroethane-d4	50.00	48.28	97	80-120	ug/Kg	
Toluene-d8	50.00	48.64	97	80-120	ug/Kg	
Bromofluorobenzene	50.00	44.54	89	80-123	ug/Kg	

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1551285	21.11	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2448439	15.27	10.51	10.50	-0.01
Chlorobenzene-d5	1735753	2002717	15.38	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	1077899	24.76	19.83	19.82	-0.01

!=warning -=low bias c=CCV

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH503.D
Report Date: 05-Aug-2004 11:51

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH503.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 10:46 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : LCS,QC260267
Misc Info : 93511,5/5,04WS1387A,5000X,04WS1384A,5000X, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.326	3.321	(0.369)	1272727	35.1046	35.1046
2 Chloromethane	50	3.670	3.675	(0.407)	1048231	40.8706	40.8705
3 Vinyl Chloride	62	3.838	3.833	(0.426)	397026	39.6180	39.6180
4 Bromomethane	94	4.498	4.502	(0.499)	846104	54.8165	54.8164
5 Chloroethane	64	4.626	4.630	(0.513)	529875	42.7667	42.7666
6 Trichlorofluoromethane	101	5.079	5.083	(0.563)	1535747	51.5079	51.5079
7 Acetone	43	5.650	5.645	(0.627)	663208	53.7740	53.7739
8 Freon 113	101	5.778	5.783	(0.641)	1115073	58.4023	58.4023
9 1,1-Dichloroethene	96	5.955	5.960	(0.660)	885897	51.2171	51.2171
10 Methylene Chloride	84	6.585	6.590	(0.730)	1125361	48.3974	48.3974
11 Carbon Disulfide	76	6.674	6.679	(0.740)	3002413	45.2814	45.2814
12 MTBE	73	6.940	6.935	(0.770)	2583215	48.1060	48.1060
13 trans-1,2-Dichloroethene	96	7.098	7.102	(0.787)	1028849	49.3439	49.3439
14 Vinyl Acetate	43	7.649	7.654	(0.848)	2378802	40.8263	40.8262
15 1,1-Dichloroethane	63	7.678	7.673	(0.851)	1862302	46.1661	46.1660
16 2-Butanone	43	8.230	8.235	(0.913)	773582	40.3418	40.3418

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH503.D
Report Date: 05-Aug-2004 11:51

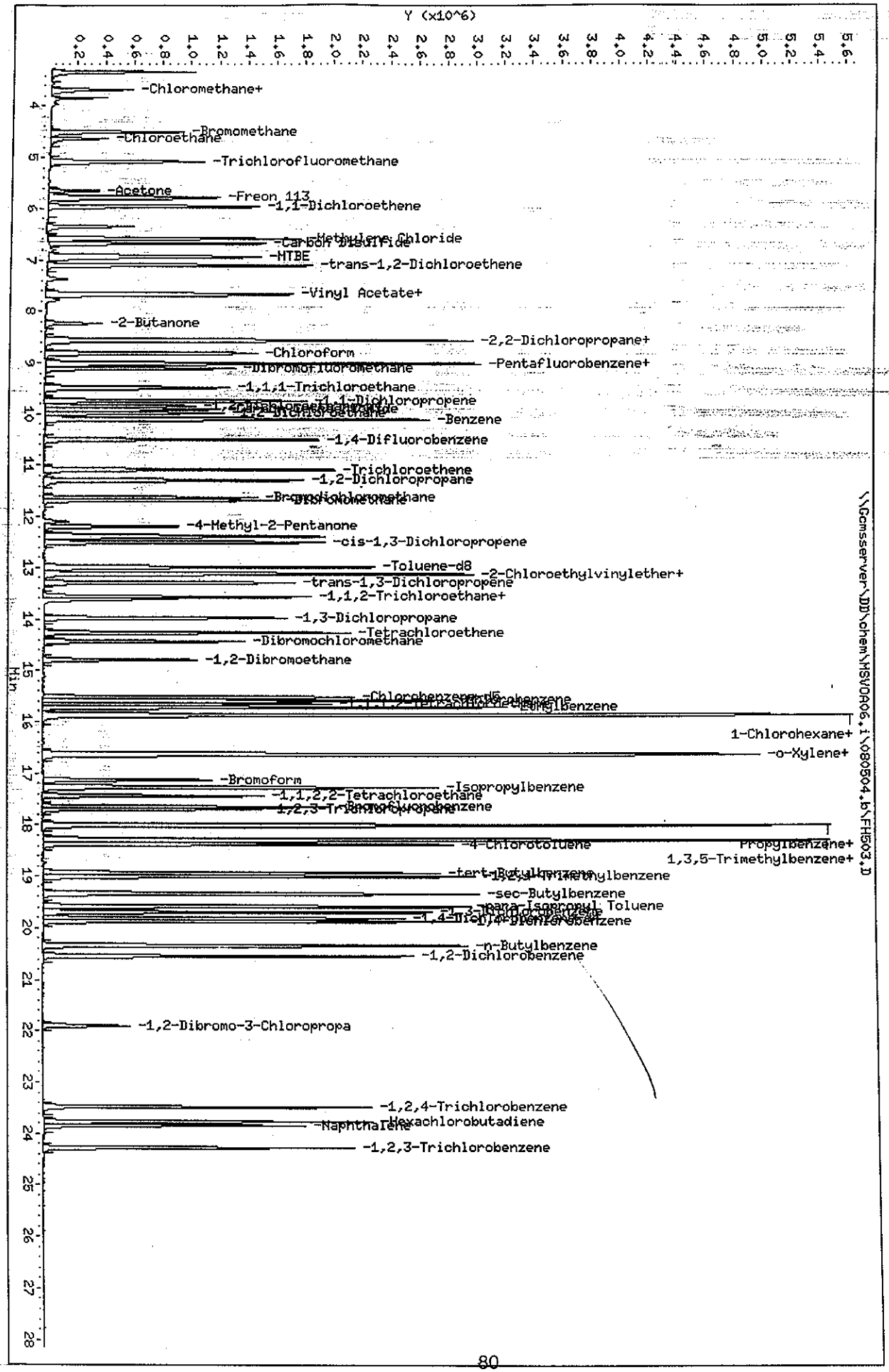
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17	2,2-Dichloropropane	77	8.565	8.570	(0.950)	1289349	51.8082	51.8082
	18	cis-1,2-Dichloroethene	96	8.565	8.570	(0.950)	1134525	49.6513	49.6512
	19	Chloroform	83	8.821	8.826	(0.978)	1730717	46.8372	46.8371
*	20	Pentafluorobenzene	168	9.018	9.023	(1.000)	1551285	50.0000	
	21	Bromochloromethane	128	9.018	9.023	(1.000)	665929	51.2240	51.2239
$	22	Dibromofluoromethane	113	9.107	9.111	(1.010)	1141368	47.8597	47.8597
	23	1,1,1-Trichloroethane	97	9.491	9.495	(1.052)	1359260	49.9433	49.9433
	24	1,1-Dichloropropene	75	9.737	9.742	(0.927)	1254711	51.2151	51.2150
$	25	1,2-Dichloroethane-d4	65	9.845	9.850	(0.937)	973761	48.2756	48.2756
	26	Carbon Tetrachloride	117	9.914	9.919	(0.944)	1261541	54.8701	54.8701
	27	1,2-Dichloroethane	62	9.983	9.988	(0.950)	1338594	47.0760	47.0759
	28	Benzene	78	10.101	10.106	(0.962)	3474700	51.7559	51.7559
*	29	1,4-Difluorobenzene	114	10.505	10.510	(1.000)	2448439	50.0000	
	30	Trichloroethene	95	11.076	11.091	(1.054)	1030700	50.6194	50.6194
	31	1,2-Dichloropropane	63	11.293	11.298	(1.075)	1052765	47.7495	47.7495
	32	Bromodichloromethane	83	11.628	11.642	(1.107)	1346555	54.1166	54.1166
	33	Dibromomethane	93	11.677	11.692	(1.112)	951094	52.0510	52.0509
	34	2-Chloroethylvinylether	63	13.125	13.129	(1.249)	313587	47.4142	47.4141
	35	4-Methyl-2-Pentanone	43	12.189	12.204	(1.160)	1236066	37.0458	37.0458
	36	cis-1,3-Dichloropropene	75	12.504	12.509	(1.190)	1562892	50.8908	50.8907
$	37	Toluene-d8	98	12.987	13.001	(1.236)	2390824	48.6424	48.6423
	38	Toluene	92	13.125	13.129	(1.249)	2103746	50.4602	50.4601
	39	trans-1,3-Dichloropropene	75	13.302	13.307	(1.266)	1308757	47.9489	47.9488
	40	1,1,2-Trichloroethane	85	13.568	13.573	(1.292)	591045	50.6538	50.6537
	41	2-Hexanone	43	13.617	13.622	(0.877)	1023468	38.2652	38.2652
	42	1,3-Dichloropropane	76	13.981	13.986	(0.900)	1395989	47.8234	47.8234
	43	Tetrachloroethene	166	14.267	14.282	(0.919)	1022379	58.0712	58.0711
	44	Dibromochloromethane	129	14.444	14.449	(0.930)	1155092	49.7141	49.7141
	45	1,2-Dibromoethane	107	14.799	14.804	(1.409)	1117427	50.8689	50.8689
*	46	Chlorobenzene-d5	117	15.527	15.532	(1.000)	2002717	50.0000	
	47	Chlorobenzene	112	15.587	15.601	(1.004)	2483116	50.3680	50.3679
	48	1,1,1,2-Tetrachloroethane	131	15.646	15.660	(1.008)	897268	52.1382	52.1382
	49	1-Chlorohexane	91	15.862	15.877	(1.022)	5397254	49.0126	49.0126
	50	Ethylbenzene	91	15.715	15.719	(1.012)	3711798	50.1862	50.1862
	51	m,p-Xylenes	106	15.872	15.877	(1.022)	3017630	102.439	102.4394
	52	o-Xylene	106	16.621	16.625	(1.070)	1468065	49.7311	49.7310
	53	Styrene	104	16.640	16.645	(1.072)	2562072	50.7646	50.7645
	54	Bromoform	173	17.133	17.138	(1.103)	859524	53.1095	53.1094
	55	Isopropylbenzene	105	17.271	17.275	(0.871)	3118750	42.1521	42.1521
	56	1,1,2,2-Tetrachloroethane	83	17.438	17.443	(0.880)	1323332	42.6346	42.6345
$	57	Bromofluorobenzene	95	17.645	17.659	(0.890)	1044794	44.5446	44.5446
	58	1,2,3-Trichloropropane	110	17.694	17.699	(0.893)	323958	42.2833	42.2832
	59	Propylbenzene	91	17.999	18.004	(0.908)	4240433	45.8915	45.8914
	60	Bromobenzene	156	17.999	18.004	(0.908)	1144845	49.3834	49.3833
	61	1,3,5-Trimethylbenzene	105	18.295	18.300	(0.923)	2914554	46.6354	46.6353
	62	2-Chlorotoluene	91	18.285	18.290	(0.922)	2873086	45.2199	45.2199
	63	4-Chlorotoluene	91	18.374	18.378	(0.927)	2655310	45.3795	45.3794

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH503.D
Report Date: 05-Aug-2004 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	64 tert-Butylbenzene	119	18.935	18.950	(0.955)	2521348	47.8867	47.8867
	65 1,2,4-Trimethylbenzene	105	19.004	19.009	(0.959)	2898910	46.3863	46.3862
	66 sec-Butylbenzene	105	19.339	19.344	(0.976)	3846576	47.2465	47.2464
	67 para-Isopropyl Toluene	119	19.585	19.590	(0.988)	2936155	46.5387	46.5387
	68 1,3-Dichlorobenzene	146	19.703	19.708	(0.994)	1845647	49.5983	49.5982
*	69 1,4-Dichlorobenzene-d4	152	19.821	19.826	(1.000)	1077899	50.0000	
	70 1,4-Dichlorobenzene	146	19.880	19.885	(1.003)	1910700	49.8187	49.8187
	71 n-Butylbenzene	91	20.343	20.348	(1.026)	2864455	46.5157	46.5157
	72 1,2-Dichlorobenzene	146	20.540	20.555	(1.036)	1729920	48.5706	48.5706
	73 1,2-Dibromo-3-Chloropropane	75	21.899	21.904	(1.105)	208324	37.9202	37.9202
	74 1,2,4-Trichlorobenzene	180	23.485	23.490	(1.185)	1027387	51.7071	51.7070
	75 Hexachlorobutadiene	225	23.770	23.775	(1.199)	615835	55.1541	55.1541
	76 Naphthalene	128	23.839	23.854	(1.203)	1981716	43.6637	43.6636
	77 1,2,3-Trichlorobenzene	180	24.273	24.277	(1.225)	996490	50.1928	50.1928

Data File: \\Comsserver\DD\chem\MSVOA06.i\080504.b\FH503.D
Date : 05-AUG-2004 10:46
Client ID: DYNA P&T
Sample Info: LCS,QC260267
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA06	Instid : MSVOA06	Instid : MSVOA06
Seqnum : 454314501008	Seqnum : 454314501009	Seqnum : 454314501010
Filename : fh508	Filename : fh509	Filename : fh510
IDF : 0.92	IDF : 0.92	IDF : 0.92
PDF : 1.0	PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173765-001	Samplenum: QC260269	Samplenum: QC260270
Matrix : TCLP Leachate	Matrix : TCLP Leachate	Matrix : TCLP Leachate
Batchnum : 93511	Batchnum : 93511	Batchnum : 93511
Inj : 05-AUG-2004 13:41	Inj : 05-AUG-2004 14:16	Inj : 05-AUG-2004 14:51
Caltype : SOIL	Caltype : SOIL	Caltype : SOIL

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,1-Dichloroethene	ND	46.00	41.85	91	40.97	89	77-120	ug/L	2	20	y
Benzene	ND	46.00	44.26	96	43.54	95	80-120	ug/L	2	20	y
Trichloroethene	ND	46.00	42.91	93	42.19	92	74-121	ug/L	2	20	y
Toluene	ND	46.00	43.85	95	42.85	93	80-120	ug/L	2	20	y
Chlorobenzene	ND	46.00	42.12	92	43.23	94	80-120	ug/L	3	20	y
Freon 12	ND	46.00	25.59	56	25.89	56	51-120	ug/L	1	20	y
Chloromethane	0.4500	46.00	30.61	66	30.36	65	58-120	ug/L	1	20	y
Vinyl Chloride	ND	46.00	21.40	47*	21.20	46*	64-120	ug/L	1	21	
Bromomethane	0.9522	46.00	34.87	74	35.86	76	49-128	ug/L	3	29	y
Chloroethane	ND	46.00	31.24	68*	31.26	68*	69-120	ug/L	0	20	y
Trichlorofluoromethane	ND	46.00	36.07	78	36.49	79	76-121	ug/L	1	20	
Acetone	17.28	46.00	44.06	58*	43.64	57*	63-122	ug/L	1	20	y
Freon 113	ND	46.00	47.32	103	46.89	102	74-122	ug/L	1	20	y
Methylene Chloride	3.199	46.00	44.97	91	43.73	88	76-120	ug/L	3	20	
MTBE	ND	46.00	41.65	91	41.35	90	77-120	ug/L	1	20	!c- y
Carbon Disulfide	0.1137	46.00	36.99	80	36.15	78	72-120	ug/L	2	20	y
trans-1,2-Dichloroethene	ND	46.00	40.71	89	40.29	88	78-120	ug/L	1	20	y
Vinyl Acetate	ND	46.00	34.69	75	34.11	74	51-120	ug/L	2	20	
1,1-Dichloroethane	ND	46.00	37.99	83	37.65	82	77-120	ug/L	1	20	y
2-Butanone	0.8959	46.00	31.92	67*	31.68	67*	70-126	ug/L	1	20	y
cis-1,2-Dichloroethene	ND	46.00	41.41	90	41.20	90	79-120	ug/L	1	20	y
2,2-Dichloropropane	ND	46.00	42.19	92	41.49	90	66-132	ug/L	2	20	y
Chloroform	ND	46.00	39.39	86	39.45	86	79-120	ug/L	0	20	y
Bromochloromethane	ND	46.00	43.84	95	43.69	95	80-120	ug/L	0	20	y
1,1,1-Trichloroethane	ND	46.00	40.84	89	40.05	87	78-122	ug/L	2	20	y
1,1-Dichloropropene	ND	46.00	43.35	94	42.44	92	80-120	ug/L	2	20	y
Carbon Tetrachloride	ND	46.00	46.76	102	46.06	100	79-125	ug/L	2	20	y
1,2-Dichloroethane	ND	46.00	39.62	86	39.02	85	80-120	ug/L	2	20	y
1,2-Dichloropropane	ND	46.00	41.78	91	40.67	88	80-120	ug/L	3	20	y
Bromodichloromethane	ND	46.00	46.60	101	45.73	99	80-122	ug/L	2	20	y
Dibromomethane	ND	46.00	43.51	95	43.59	95	80-120	ug/L	0	20	y
4-Methyl-2-Pentanone	1.481	46.00	37.30	78	36.22	76	73-126	ug/L	3	20	y
cis-1,3-Dichloropropene	ND	46.00	43.08	94	43.06	94	80-120	ug/L	0	20	y
trans-1,3-Dichloropropene	ND	46.00	40.31	88	39.87	87	78-120	ug/L	1	20	y
1,1,2-Trichloroethane	ND	46.00	44.25	96	43.77	95	80-120	ug/L	1	20	y
2-Hexanone	ND	46.00	41.42	90	41.84	91	70-135	ug/L	1	20	y
1,3-Dichloropropane	ND	46.00	39.93	87	41.55	90	80-120	ug/L	4	20	y
Tetrachloroethene	ND	46.00	48.96	106	49.73	108	80-123	ug/L	2	20	y
Dibromochloromethane	ND	46.00	41.97	91	43.97	96	80-121	ug/L	5	20	y

!=warning -=low bias c=CCV y=RL raised

SPIKE USER REPORT
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EPA 8260B

Instid : MSVOA06	Instid : MSVOA06	Instid : MSVOA06
Seqnum : 454314501008	Seqnum : 454314501009	Seqnum : 454314501010
Filename : fh508	Filename : fh509	Filename : fh510
IDF : 0.92	IDF : 0.92	IDF : 0.92
PDF : 1.0	PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173765-001	Samplenum: QC260269	Samplenum: QC260270
Matrix : TCLP Leachate	Matrix : TCLP Leachate	Matrix : TCLP Leachate
Batchnum : 93511	Batchnum : 93511	Batchnum : 93511
Inj : 05-AUG-2004 13:41	Inj : 05-AUG-2004 14:16	Inj : 05-AUG-2004 14:51
Caltype : SOIL	Caltype : SOIL	Caltype : SOIL

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,2-Dibromoethane	ND	46.00	45.13	98	43.99	96	80-120	ug/L	3	20	y
1,1,1,2-Tetrachloroethane	ND	46.00	44.43	97	45.85	100	80-120	ug/L	3	20	y
Ethylbenzene	ND	46.00	41.82	91	42.47	92	80-120	ug/L	2	20	y
m,p-Xylenes	ND	92.00	85.27	93	86.40	94	80-120	ug/L	1	20	
o-Xylene	ND	46.00	41.65	91	42.87	93	80-120	ug/L	3	20	y
Styrene	ND	46.00	42.28	92	43.31	94	78-120	ug/L	2	20	y
Bromoform	ND	46.00	44.63	97	46.26	101	80-123	ug/L	4	20	y
Isopropylbenzene	ND	46.00	36.05	78*	37.10	81	79-120	ug/L	3	20	y
1,1,2,2-Tetrachloroethane	ND	46.00	38.05	83	38.19	83	79-120	ug/L	0	20	y
1,2,3-Trichloropropane	ND	46.00	37.94	82	39.19	85	80-120	ug/L	3	20	y
Propylbenzene	ND	46.00	38.82	84	39.11	85	80-120	ug/L	1	20	y
Bromobenzene	ND	46.00	42.78	93	44.10	96	80-120	ug/L	3	20	y
1,3,5-Trimethylbenzene	0.3425	46.00	40.39	87	41.12	89	80-120	ug/L	2	20	y
2-Chlorotoluene	ND	46.00	38.62	84	39.24	85	80-120	ug/L	2	20	y
4-Chlorotoluene	ND	46.00	38.71	84	39.65	86	80-120	ug/L	2	20	y
tert-Butylbenzene	ND	46.00	41.54	90	42.14	92	80-122	ug/L	1	20	y
1,2,4-Trimethylbenzene	0.2564	46.00	40.58	88	41.08	89	80-123	ug/L	1	20	y
sec-Butylbenzene	ND	46.00	40.41	88	40.36	88	80-120	ug/L	0	20	y
para-Isopropyl Toluene	ND	46.00	40.44	88	40.72	89	78-120	ug/L	1	20	y
1,3-Dichlorobenzene	ND	46.00	42.97	93	44.22	96	80-120	ug/L	3	20	y
1,4-Dichlorobenzene	ND	46.00	42.62	93	44.23	96	80-120	ug/L	4	20	y
n-Butylbenzene	ND	46.00	40.93	89	41.18	90	74-126	ug/L	1	20	y
1,2-Dichlorobenzene	ND	46.00	42.60	93	43.71	95	80-120	ug/L	3	20	y
1,2-Dibromo-3-Chloropropane	ND	46.00	35.01	76	36.02	78	74-129	ug/L	3	20	!c- y
1,2,4-Trichlorobenzene	ND	46.00	48.86	106	49.05	107	72-133	ug/L	0	24	y
Hexachlorobutadiene	ND	46.00	49.80	108	50.43	110	80-127	ug/L	1	20	y
Naphthalene	0.1654	46.00	42.73	93	42.94	93	57-153	ug/L	0	36	y
1,2,3-Trichlorobenzene	ND	46.00	47.40	103	48.06	104	69-138	ug/L	1	31	y
Dibromofluoromethane		46.00	42.81	93	41.73	91	80-120	ug/L	--		
1,2-Dichloroethane-d4		46.00	41.88	91	40.81	89	80-124	ug/L	--		
Toluene-d8		46.00	45.57	99	44.13	96	80-120	ug/L	--		
Bromofluorobenzene		46.00	40.85	89	40.80	89	80-120	ug/L	--		

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1733403	35.33	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2664387	25.44	10.51	10.51	0.00
Chlorobenzene-d5	1735753	2268599	30.70	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	1173067	35.77	19.83	19.83	0.00

!=warning -=low bias c=CCV y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA06	Instid : MSVOA06	Instid : MSVOA06
Seqnum : 454314501008	Seqnum : 454314501009	Seqnum : 454314501010
Filename : fh508	Filename : fh509	Filename : fh510
IDF : 0.92	IDF : 0.92	IDF : 0.92
PDF : 1.0	PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173765-001	Samplenum: QC260269	Samplenum: QC260270
Matrix : TCLP Leachate	Matrix : TCLP Leachate	Matrix : TCLP Leachate
Batchnum : 93511	Batchnum : 93511	Batchnum : 93511
Inj : 05-AUG-2004 13:41	Inj : 05-AUG-2004 14:16	Inj : 05-AUG-2004 14:51
Caltype : SOIL	Caltype : SOIL	Caltype : SOIL

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1792436	39.94	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2765322	30.19	10.51	10.51	0.00
Chlorobenzene-d5	1735753	2251417	29.71	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	1171103	35.55	19.83	19.82	-0.01

!=warning -=low bias c=CCV y=RL raised
Page 3 of 3

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH509.D
Report Date: 05-Aug-2004 15:20

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH509.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 14:16 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : MS,QC260269,93511,
Misc Info : 0.92:5/5,04WS1387A,5000X,04WS1384A,5000X, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.322	3.321	(0.368)	1126866	27.8159	27.8159
2 Chloromethane	50	3.677	3.675	(0.407)	953530	33.2722	33.2721
3 Vinyl Chloride	62	3.834	3.833	(0.425)	260440	23.2582	23.2581
4 Bromomethane	94	4.494	4.502	(0.498)	653730	37.9034	37.9034
5 Chloroethane	64	4.632	4.630	(0.513)	470105	33.9562	33.9562
6 Trichlorofluoromethane	101	5.075	5.083	(0.562)	1306244	39.2077	39.2076
7 Acetone	43	5.646	5.645	(0.626)	659937	47.8869	47.8869
8 Freon 113	101	5.784	5.783	(0.641)	1097385	51.4373	51.4373
9 1,1-Dichloroethene	96	5.961	5.960	(0.661)	879234	45.4914	45.4913
10 Methylene Chloride	84	6.582	6.590	(0.729)	1270162	48.8857	48.8856
11 Carbon Disulfide	76	6.680	6.679	(0.740)	2979226	40.2111	40.2110
12 MTBE	73	6.936	6.935	(0.769)	2716499	45.2732	45.2731
13 trans-1,2-Dichloroethene	96	7.104	7.102	(0.787)	1031077	44.2553	44.2553
14 Vinyl Acetate	43	7.645	7.654	(0.847)	2454825	37.7046	37.7045
15 1,1-Dichloroethane	63	7.675	7.673	(0.850)	1861063	41.2882	41.2882
16 2-Butanone	43	8.236	8.235	(0.913)	743345	34.6922	34.6921

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH509.D
Report Date: 05-Aug-2004 15:20

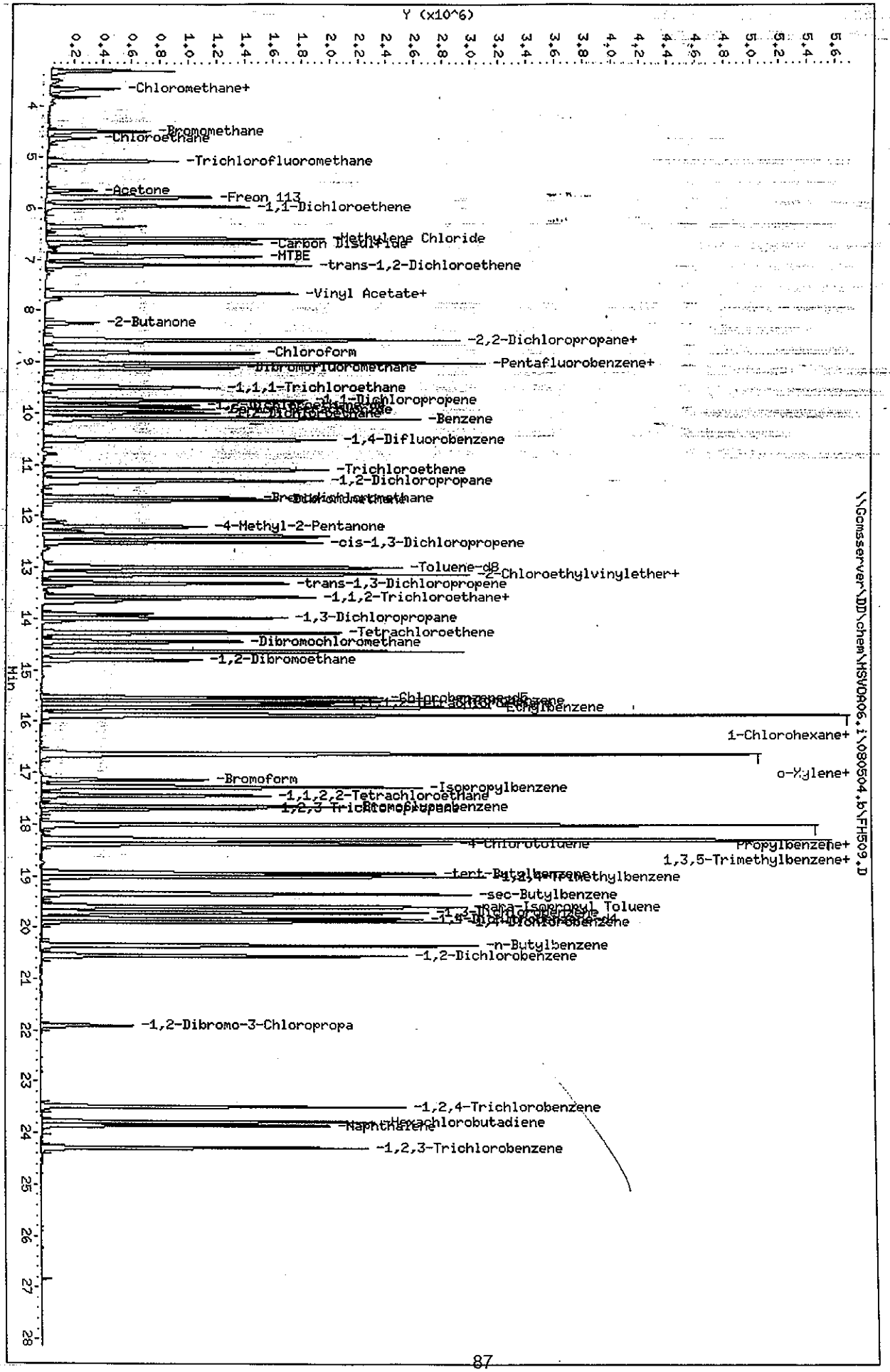
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 2,2-Dichloropropane	77	8.561	8.570	(0.949)	1275326	45.8608	45.8607
	18 cis-1,2-Dichloroethene	96	8.571	8.570	(0.950)	1149114	45.0062	45.0061
	19 Chloroform	83	8.817	8.826	(0.977)	1767839	42.8154	42.8153
*	20 Pentafluorobenzene	168	9.024	9.023	(1.000)	1733403	50.0000	
	21 Bromochloromethane	128	9.024	9.023	(1.000)	692157	47.6477	47.6477
$	22 Dibromofluoromethane	113	9.113	9.111	(1.010)	1240122	46.5373	46.5373
	23 1,1,1-Trichloroethane	97	9.497	9.495	(1.052)	1350042	44.3930	44.3929
	24 1,1-Dichloropropene	75	9.743	9.742	(0.927)	1256304	47.1239	47.1238
$	25 1,2-Dichloroethane-d4	65	9.851	9.850	(0.937)	999227	45.5231	45.5230
	26 Carbon Tetrachloride	117	9.920	9.919	(0.944)	1271597	50.8249	50.8248
	27 1,2-Dichloroethane	62	9.989	9.988	(0.950)	1332459	43.0622	43.0622
	28 Benzene	78	10.107	10.106	(0.962)	3514347	48.1038	48.1037
*	29 1,4-Difluorobenzene	114	10.511	10.510	(1.000)	2664387	50.0000	
	30 Trichloroethene	95	11.082	11.091	(1.054)	1033547	46.6453	46.6452
	31 1,2-Dichloropropane	63	11.299	11.298	(1.075)	1089633	45.4161	45.4161
	32 Bromodichloromethane	83	11.634	11.642	(1.107)	1371469	50.6506	50.6506
	33 Dibromomethane	93	11.683	11.692	(1.111)	940427	47.2958	47.2957
	34 2-Chloroethylvinylether	63	13.131	13.129	(1.249)	306185	42.5429	42.5429
	35 4-Methyl-2-Pentanone	43	12.205	12.204	(1.161)	1472081	40.5435	40.5435
	36 cis-1,3-Dichloropropene	75	12.510	12.509	(1.190)	1565026	46.8300	46.8299
$	37 Toluene-d8	98	13.003	13.001	(1.237)	2649519	49.5366	49.5366
	38 Toluene	92	13.131	13.129	(1.249)	2162448	47.6643	47.6642
	39 trans-1,3-Dichloropropene	75	13.308	13.307	(1.266)	1301534	43.8195	43.8194
	40 1,1,2-Trichloroethane	85	13.574	13.573	(1.291)	610786	48.1031	48.1031
	41 2-Hexanone	43	13.623	13.622	(0.877)	1363902	45.0169	45.0168
	42 1,3-Dichloropropane	76	13.988	13.986	(0.900)	1435166	43.4033	43.4032
	43 Tetrachloroethene	166	14.283	14.282	(0.919)	1061262	53.2149	53.2149
	44 Dibromochloromethane	129	14.450	14.449	(0.930)	1200649	45.6185	45.6184
	45 1,2-Dibromoethane	107	14.805	14.804	(1.408)	1172547	49.0519	49.0518
*	46 Chlorobenzene-d5	117	15.534	15.532	(1.000)	2268599	50.0000	
	47 Chlorobenzene	112	15.593	15.601	(1.004)	2556902	45.7861	45.7860
	48 1,1,1,2-Tetrachloroethane	131	15.662	15.660	(1.008)	941542	48.2987	48.2986
	49 1-Chlorohexane	91	15.878	15.877	(1.022)	5520167	44.2536	44.2536
	50 Ethylbenzene	91	15.721	15.719	(1.012)	3807894	45.4514	45.4513
	51 m,p-Xylenes	106	15.878	15.877	(1.022)	3092762	92.6851	92.6850
	52 o-Xylene	106	16.627	16.625	(1.070)	1513906	45.2734	45.2734
	53 Styrene	104	16.647	16.645	(1.072)	2627150	45.9532	45.9532
	54 Bromoform	173	17.139	17.138	(1.103)	889297	48.5091	48.5090
	55 Isopropylbenzene	105	17.277	17.275	(0.871)	3155158	39.1846	39.1845
	56 1,1,2,2-Tetrachloroethane	83	17.444	17.443	(0.880)	1397090	41.3593	41.3592
$	57 Bromofluorobenzene	95	17.651	17.659	(0.890)	1133518	44.4066	44.4066
	58 1,2,3-Trichloropropane	110	17.700	17.699	(0.893)	343875	41.2417	41.2416
	59 Propylbenzene	91	18.006	18.004	(0.908)	4243226	42.1962	42.1961
	60 Bromobenzene	156	18.006	18.004	(0.908)	1173156	46.4992	46.4991
	61 1,3,5-Trimethylbenzene	105	18.301	18.300	(0.923)	2986300	43.9068	43.9068
	62 2-Chlorotoluene	91	18.291	18.290	(0.923)	2902825	41.9814	41.9814
	63 4-Chlorotoluene	91	18.380	18.378	(0.927)	2679343	42.0754	42.0753

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH509.D
Report Date: 05-Aug-2004 15:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	64 tert-Butylbenzene	119	18.951	18.950	(0.956)	2587474	45.1558	45.1558
	65 1,2,4-Trimethylbenzene	105	19.010	19.009	(0.959)	2999856	44.1073	44.1072
	66 sec-Butylbenzene	105	19.345	19.344	(0.976)	3891550	43.9211	43.9210
	67 para-Isopropyl Toluene	119	19.601	19.590	(0.989)	3018058	43.9560	43.9560
	68 1,3-Dichlorobenzene	146	19.709	19.708	(0.994)	1891292	46.7016	46.7015
*	69 1,4-Dichlorobenzene-d4	152	19.827	19.826	(1.000)	1173067	50.0000	
	70 1,4-Dichlorobenzene	146	19.887	19.885	(1.003)	1933785	46.3301	46.3301
	71 n-Butylbenzene	91	20.349	20.348	(1.026)	2981412	44.4872	44.4872
	72 1,2-Dichlorobenzene	146	20.556	20.555	(1.037)	1794787	46.3037	46.3037
	73 1,2-Dibromo-3-Chloropropane	75	21.905	21.904	(1.105)	227496	38.0506	38.0505
	74 1,2,4-Trichlorobenzene	180	23.491	23.490	(1.185)	1148396	53.1083	53.1083
	75 Hexachlorobutadiene	225	23.777	23.775	(1.199)	657758	54.1296	54.1295
	76 Naphthalene	128	23.855	23.854	(1.203)	2294021	46.4442	46.4441
	77 1,2,3-Trichlorobenzene	180	24.289	24.277	(1.225)	1113178	51.5215	51.5214

Data File: \\Gcmsserver\DD\chem\HSVOA06.i\080504.b\FH509.D
Date : 05-AUG-2004 14:16
Client ID: DYNA P&T
Sample Info: MS,QC260269,93511,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH510.D
Report Date: 05-Aug-2004 15:55

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH510.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 14:51 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : MSD,QC260270,93511,
Misc Info : 0.92:5/5,04WS1387A,5000X,04WS1384A,5000X, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.317	3.321	(0.368)	1178807	28.1397	28.1397
2 Chloromethane	50	3.671	3.675	(0.407)	978000	33.0021	33.0020
3 Vinyl Chloride	62	3.829	3.833	(0.425)	266797	23.0411	23.0411
4 Bromomethane	94	4.498	4.502	(0.499)	695132	38.9765	38.9764
5 Chloroethane	64	4.626	4.630	(0.513)	486421	33.9776	33.9775
6 Trichlorofluoromethane	101	5.079	5.083	(0.563)	1366445	39.6638	39.6638
7 Acetone	43	5.641	5.645	(0.625)	675924	47.4317	47.4316
8 Freon 113	101	5.779	5.783	(0.641)	1124499	50.9723	50.9722
9 1,1-Dichloroethene	96	5.956	5.960	(0.660)	889945	44.5290	44.5290
10 Methylene Chloride	84	6.586	6.590	(0.730)	1277136	47.5352	47.5352
11 Carbon Disulfide	76	6.675	6.679	(0.740)	3010070	39.2893	39.2893
12 MTBE	73	6.931	6.935	(0.768)	2788988	44.9504	44.9504
13 trans-1,2-Dichloroethene	96	7.098	7.102	(0.787)	1054955	43.7889	43.7889
14 Vinyl Acetate	43	7.650	7.654	(0.848)	2496341	37.0795	37.0794
15 1,1-Dichloroethane	63	7.669	7.673	(0.850)	1907452	40.9237	40.9236
16 2-Butanone	43	8.231	8.235	(0.913)	762936	34.4338	34.4338

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH510.D
Report Date: 05-Aug-2004 15:55

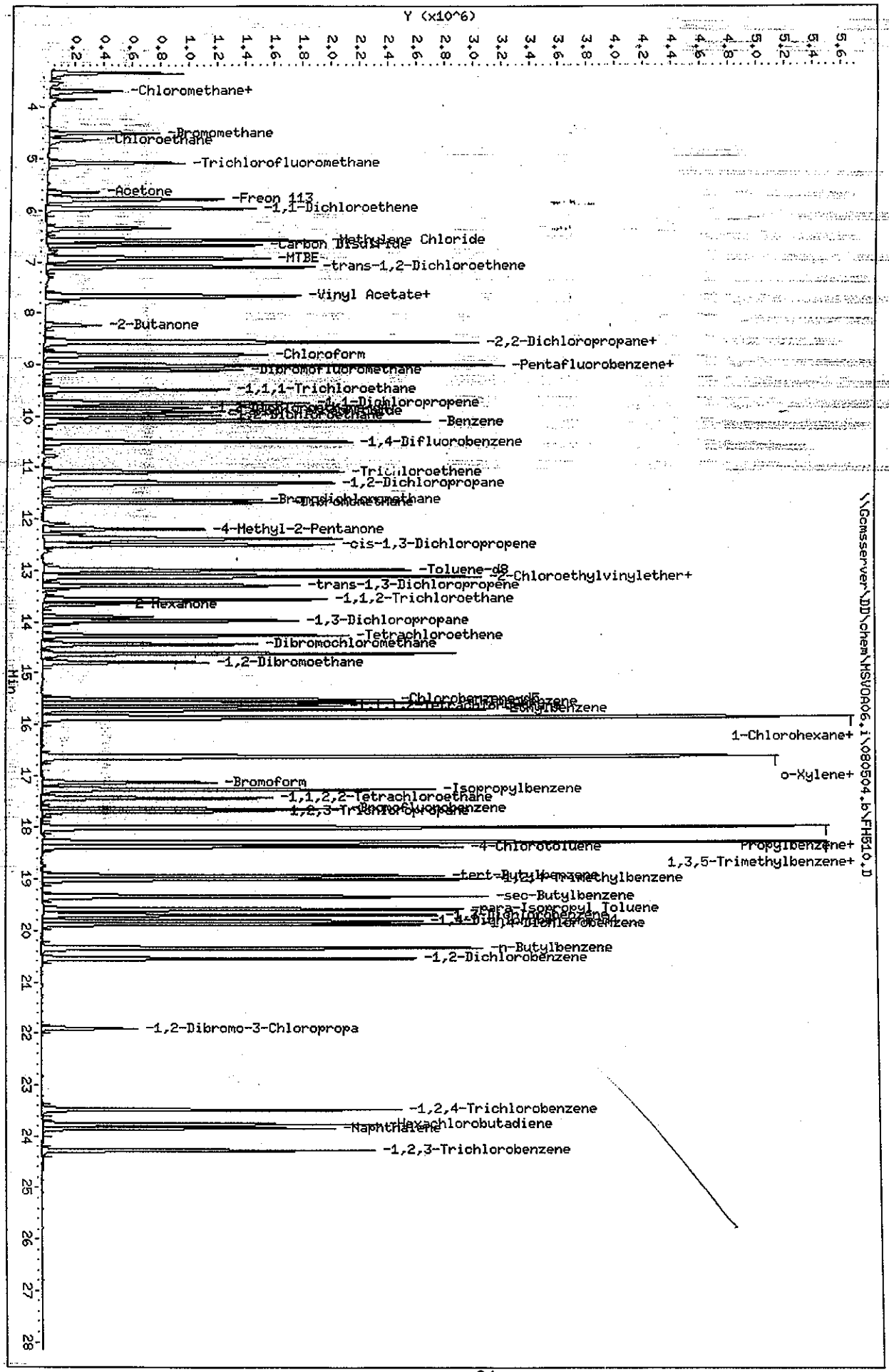
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 2,2-Dichloropropane	77	8.566	8.570	(0.950)	1296832	45.0983	45.0982
	18 cis-1,2-Dichloroethene	96	8.566	8.570	(0.950)	1182263	44.7794	44.7794
	19 Chloroform	83	8.812	8.826	(0.977)	1830873	42.8816	42.8815
*	20 Pentafluorobenzene	168	9.019	9.023	(1.000)	1792436	50.0000	
	21 Bromochloromethane	128	9.019	9.023	(1.000)	713392	47.4922	47.4921
$	22 Dibromofluoromethane	113	9.117	9.111	(1.011)	1249821	45.3566	45.3565
	23 1,1,1-Trichloroethane	97	9.491	9.495	(1.052)	1368798	43.5273	43.5273
	24 1,1-Dichloropropene	75	9.738	9.742	(0.927)	1276527	46.1347	46.1346
$	25 1,2-Dichloroethane-d4	65	9.846	9.850	(0.937)	1010619	44.3615	44.3614
	26 Carbon Tetrachloride	117	9.915	9.919	(0.944)	1299998	50.0635	50.0634
	27 1,2-Dichloroethane	62	9.984	9.988	(0.950)	1362260	42.4184	42.4183
	28 Benzene	78	10.102	10.106	(0.962)	3588109	47.3208	47.3207
*	29 1,4-Difluorobenzene	114	10.506	10.510	(1.000)	2765322	50.0000	
	30 Trichloroethene	95	11.087	11.091	(1.055)	1054528	45.8550	45.8550
	31 1,2-Dichloropropane	63	11.293	11.298	(1.075)	1100682	44.2021	44.2021
	32 Bromodichloromethane	83	11.628	11.642	(1.107)	1397017	49.7109	49.7109
	33 Dibromomethane	93	11.687	11.692	(1.112)	977905	47.3855	47.3854
	34 2-Chloroethylvinylether	63	13.125	13.129	(1.249)	320659	42.9277	42.9277
	35 4-Methyl-2-Pentanone	43	12.200	12.204	(1.161)	1483505	39.3668	39.3667
	36 cis-1,3-Dichloropropene	75	12.505	12.509	(1.190)	1623424	46.8043	46.8043
$	37 Toluene-d8	98	12.997	13.001	(1.237)	2662726	47.9664	47.9664
	38 Toluene	92	13.125	13.129	(1.249)	2192978	46.5729	46.5728
	39 trans-1,3-Dichloropropene	75	13.302	13.307	(1.266)	1336070	43.3403	43.3403
	40 1,1,2-Trichloroethane	85	13.568	13.573	(1.292)	627010	47.5784	47.5784
	41 2-Hexanone	43	13.618	13.622	(0.877)	1367600	45.4834	45.4833
	42 1,3-Dichloropropane	76	13.982	13.986	(0.900)	1482059	45.1635	45.1635
	43 Tetrachloroethene	166	14.277	14.282	(0.919)	1069742	54.0495	54.0495
	44 Dibromochloromethane	129	14.445	14.449	(0.930)	1248249	47.7890	47.7889
	45 1,2-Dibromoethane	107	14.799	14.804	(1.409)	1186310	47.8162	47.8162
*	46 Chlorobenzene-d5	117	15.528	15.532	(1.000)	2251417	50.0000	
	47 Chlorobenzene	112	15.587	15.601	(1.004)	2604353	46.9917	46.9916
	48 1,1,1,2-Tetrachloroethane	131	15.656	15.660	(1.008)	964150	49.8359	49.8358
	49 1-Chlorohexane	91	15.873	15.877	(1.022)	5531119	44.6798	44.6798
	50 Ethylbenzene	91	15.715	15.719	(1.012)	3838342	46.1644	46.1644
	51 m,p-Xylenes	106	15.873	15.877	(1.022)	3110128	93.9168	93.9167
	52 o-Xylene	106	16.621	16.625	(1.070)	1546384	46.5976	46.5975
	53 Styrene	104	16.641	16.645	(1.072)	2670720	47.0718	47.0718
	54 Bromoform	173	17.133	17.138	(1.103)	914745	50.2780	50.2779
	55 Isopropylbenzene	105	17.271	17.275	(0.871)	3241551	40.3250	40.3250
	56 1,1,2,2-Tetrachloroethane	83	17.439	17.443	(0.880)	1399703	41.5061	41.5061
$	57 Bromofluorobenzene	95	17.646	17.659	(0.890)	1130040	44.3447	44.3446
	58 1,2,3-Trichloropropane	110	17.695	17.699	(0.893)	354595	42.5987	42.5987
	59 Propylbenzene	91	18.000	18.004	(0.908)	4268050	42.5142	42.5142
	60 Bromobenzene	156	18.000	18.004	(0.908)	1207486	47.9402	47.9401
	61 1,3,5-Trimethylbenzene	105	18.295	18.300	(0.923)	3035106	44.6992	44.6992
	62 2-Chlorotoluene	91	18.286	18.290	(0.922)	2944153	42.6505	42.6505
	63 4-Chlorotoluene	91	18.374	18.378	(0.927)	2739835	43.0975	43.0974

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH510.D
Report Date: 05-Aug-2004 15:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	64 tert-Butylbenzene	119	18.945	18.950	(0.956)	2620521	45.8092	45.8092
	65 1,2,4-Trimethylbenzene	105	19.005	19.009	(0.959)	3031582	44.6485	44.6485
	66 sec-Butylbenzene	105	19.339	19.344	(0.976)	3880665	43.8717	43.8716
	67 para-Isopropyl Toluene	119	19.586	19.590	(0.988)	3033993	44.2622	44.2622
	68 1,3-Dichlorobenzene	146	19.704	19.708	(0.994)	1943418	48.0692	48.0692
*	69 1,4-Dichlorobenzene-d4	152	19.822	19.826	(1.000)	1171103	50.0000	
	70 1,4-Dichlorobenzene	146	19.881	19.885	(1.003)	2003173	48.0730	48.0730
	71 n-Butylbenzene	91	20.344	20.348	(1.026)	2994610	44.7591	44.7590
	72 1,2-Dichlorobenzene	146	20.551	20.555	(1.037)	1838665	47.5153	47.5153
	73 1,2-Dibromo-3-Chloropropane	75	21.900	21.904	(1.105)	233682	39.1507	39.1507
	74 1,2,4-Trichlorobenzene	180	23.485	23.490	(1.185)	1150951	53.3158	53.3157
	75 Hexachlorobutadiene	225	23.771	23.775	(1.199)	664949	54.8131	54.8131
	76 Naphthalene	128	23.850	23.854	(1.203)	2301345	46.6706	46.6706
	77 1,2,3-Trichlorobenzene	180	24.273	24.277	(1.225)	1126906	52.2443	52.2443

Data File: \\Gcmsserver\DD\chem\HSVOA06.i\080504.b\FH510.D
Date : 05-AUG-2004 14:51
Client ID: DYNA P&T
Sample Info: HSD,QC260270,93511,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Initial Calibration Data

8260S / 8260W ICAL

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF11.D

Date : 15-JUL-2004 16:30

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

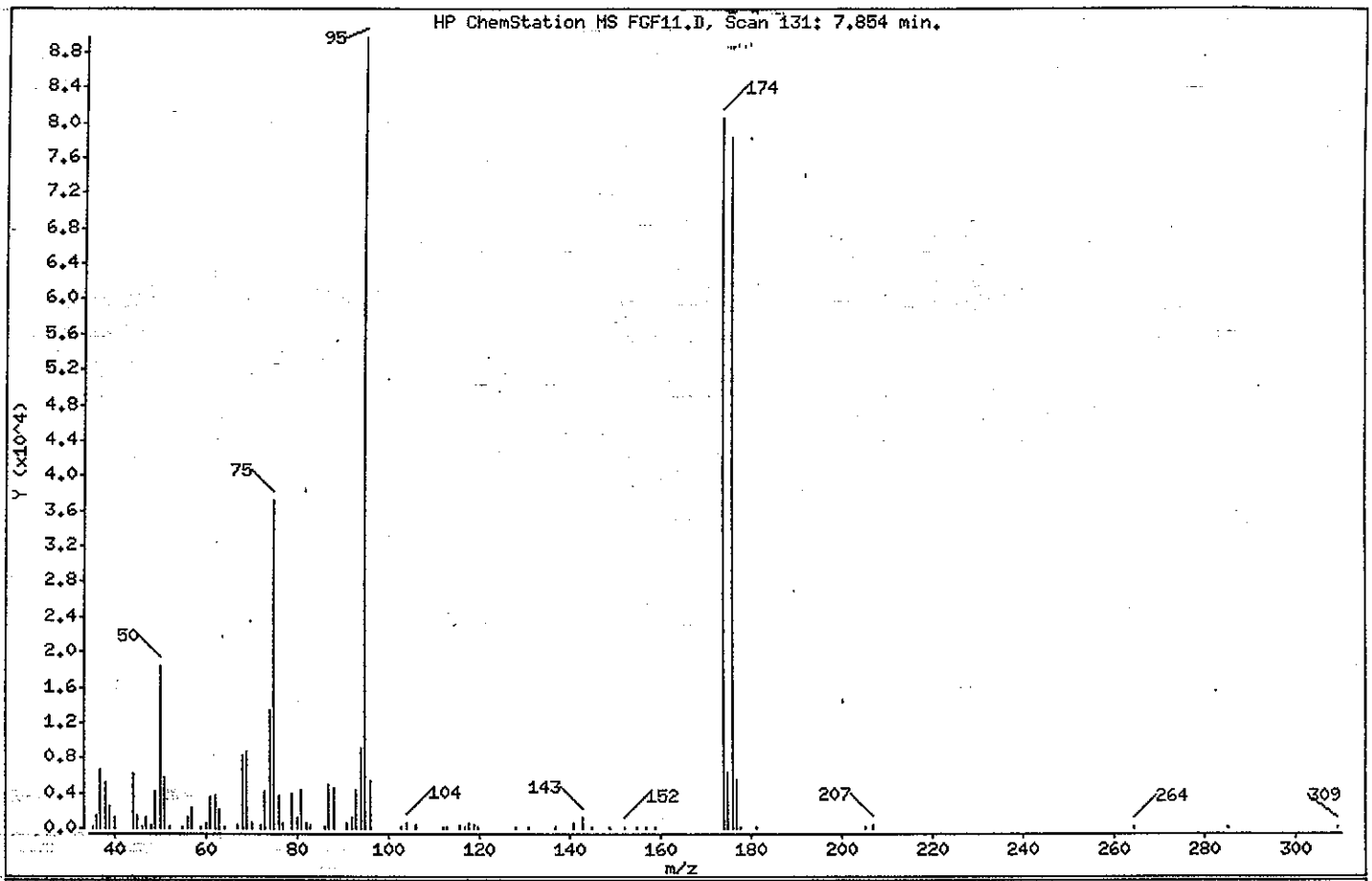
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.51
75	30.00 - 60.00% of mass 95	41.46
96	5.00 - 9.00% of mass 95	5.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	89.87
175	5.00 - 9.00% of mass 174	7.10 (7.90)
176	95.01 - 100.99% of mass 174	87.22 (97.05)
177	5.00 - 9.00% of mass 176	6.22 (7.13)

MS 7/16/04

AH 07/16/04

7/16/04

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF11.D

Date : 15-JUL-2004 16:30

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

Data File: FGF11.D
Spectrum:
Location of Maximum: 94.95
Number of points: 80

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35.35	161	61.95	3735	90.75	592	144.85	166
35.95	1458	62.95	2051	91.95	1208	148.85	152
36.95	6515	63.95	254	92.95	4256	151.95	303
37.95	5173	66.85	347	93.95	9036	154.85	241
38.95	2410	67.95	8208	94.95	89616	156.75	284
39.85	1311	68.95	8594	95.95	5320	158.95	186
43.95	6146	69.95	566	102.65	251	173.95	80536
44.95	1375	71.85	476	103.85	588	174.85	6366
45.95	296	72.95	4178	105.85	484	175.95	78160
46.95	1316	73.95	13482	111.85	162	176.85	5572
47.95	388	74.95	37152	112.95	168	177.85	173
48.95	4157	76.05	3618	115.75	412	181.25	185
49.95	18376	76.95	574	116.85	207	205.25	174
50.95	5707	78.85	3863	117.75	557	206.95	449
51.85	197	79.85	1298	118.85	480	264.50	248
54.85	237	80.85	4282	119.65	160	285.20	164
55.95	1237	81.95	699	127.85	279	309.20	200
56.95	2312	82.95	404	130.75	231		
58.65	191	85.95	180	136.85	208		
60.15	642	86.95	4862	140.75	534		
60.85	3564	87.85	4550	142.95	1152		

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF11.D

Date : 15-JUL-2004 16:30

Client ID: bfb tune std

Instrument: MSVOA06.i

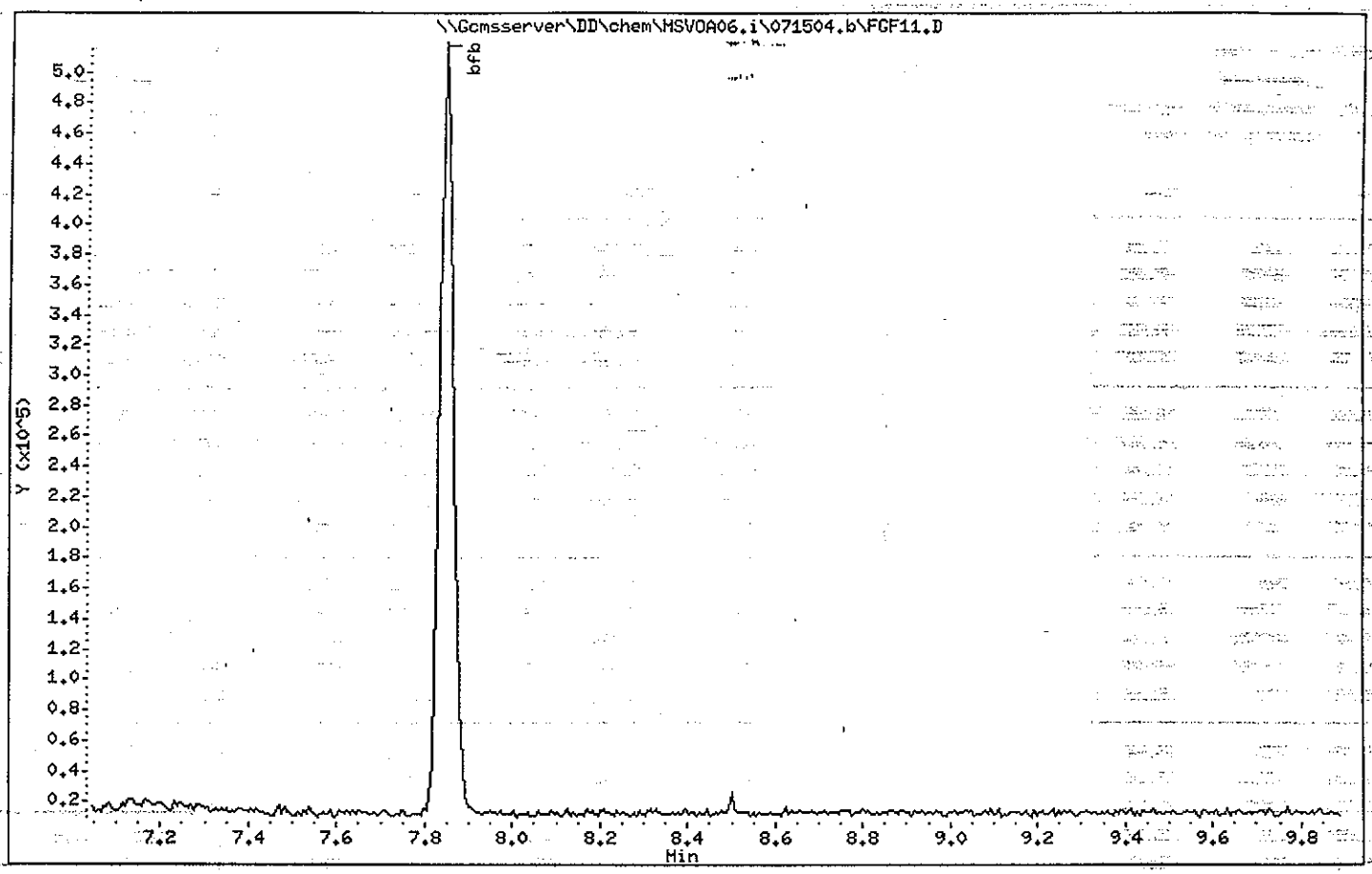
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH501.D

Date : 05-AUG-2004 09:41

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

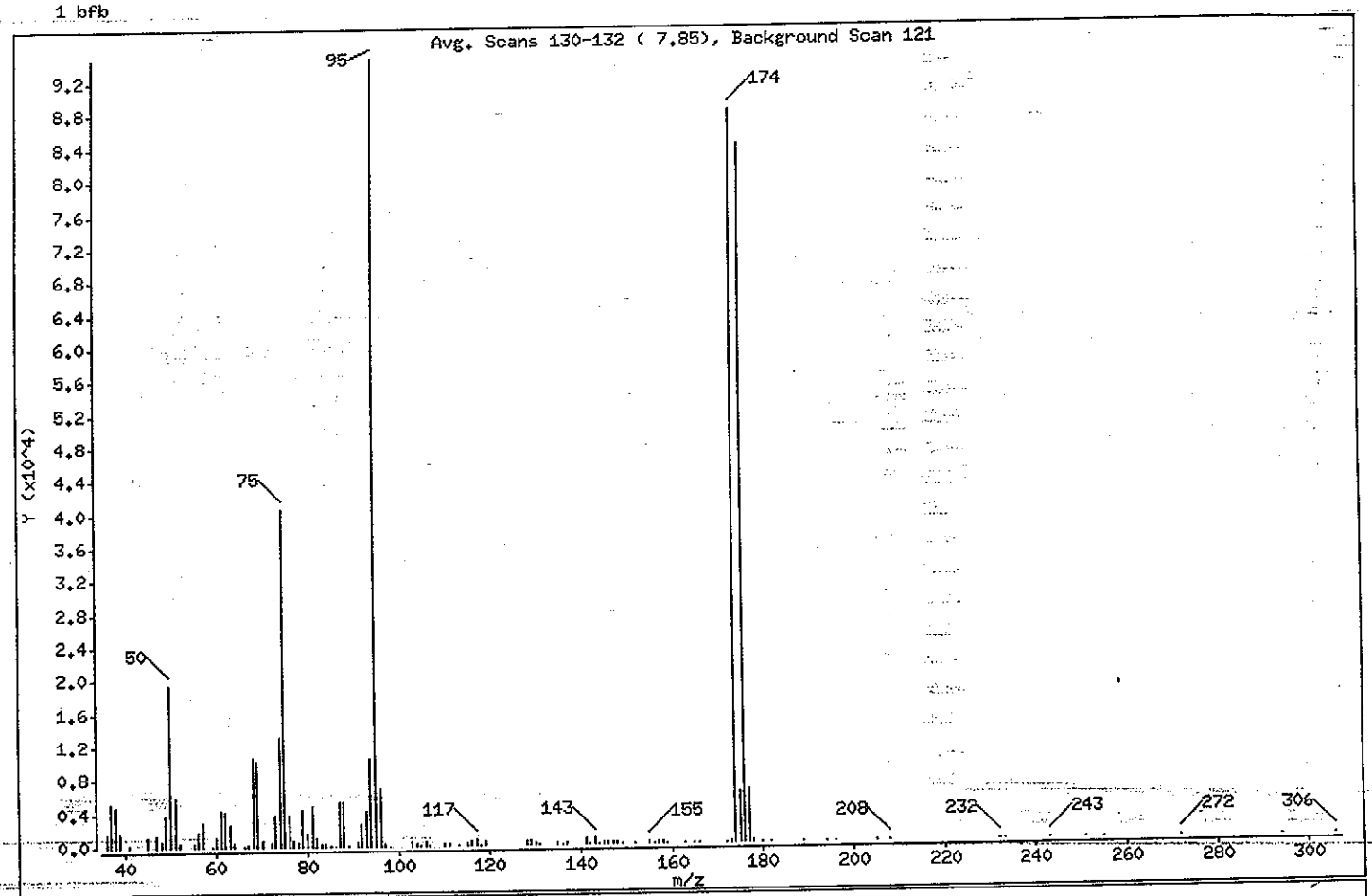
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.53
75	30.00 - 60.00% of mass 95	42.66
96	5.00 - 9.00% of mass 95	7.17
173	Less than 2.00% of mass 174	0.17 (0.18)
174	50.00 - 99.99% of mass 95	93.04
175	5.00 - 9.00% of mass 174	6.54 (7.03)
176	95.01 - 100.99% of mass 174	88.82 (95.46)
177	5.00 - 9.00% of mass 176	6.73 (7.57)

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH501.D

Date : 05-AUG-2004 09:41

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

Data File: FH501.D

Spectrum: Avg. Scans 130-132 (7.85), Background Scan 121

Location of Maximum: 95.00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1438	74.00	13032	111.00	307	159.00	56
37.00	5129	75.00	40472	113.00	59	163.00	55
38.00	4722	76.00	3601	115.00	164	165.00	64
39.00	1769	77.00	678	116.00	506	166.00	51
41.00	128	78.00	415	117.00	639	172.00	51
45.00	988	79.00	4288	118.00	66	173.00	157
47.00	1208	80.00	1456	119.00	358	174.00	88264
48.00	695	81.00	4766	128.00	364	175.00	6207
49.00	3761	82.00	822	129.00	357	176.00	84256
50.00	19480	83.00	215	130.00	147	177.00	6381
51.00	5846	84.00	113	131.00	52	178.00	160
52.00	404	85.00	57	135.00	159	180.00	52
55.00	365	87.00	5167	136.00	57	182.00	51
56.00	1788	88.00	5322	137.00	131	189.00	65
57.00	2829	89.00	73	141.00	637	194.00	74
59.00	52	91.00	429	142.00	70	196.00	59
60.00	1153	92.00	2568	143.00	713	205.00	52
61.00	4298	93.00	4232	144.00	79	208.00	81
62.00	4113	94.00	10471	145.00	116	232.00	70
63.00	2642	95.00	94864	146.00	135	233.00	60
64.00	502	96.00	6802	147.00	161	243.00	75
66.00	63	97.00	155	148.00	123	251.00	59
67.00	204	103.00	445	149.00	59	255.00	53
68.00	10621	104.00	191	152.00	54	272.00	63
69.00	10322	105.00	63	155.00	160	294.00	77
70.00	619	106.00	444	156.00	56	306.00	84
72.00	435	107.00	89	157.00	138		
73.00	3642	110.00	238	158.00	137		

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH501.D

Date : 05-AUG-2004 09:41

Client ID: bfb tune std

Sample Info: BFB,04WS1238

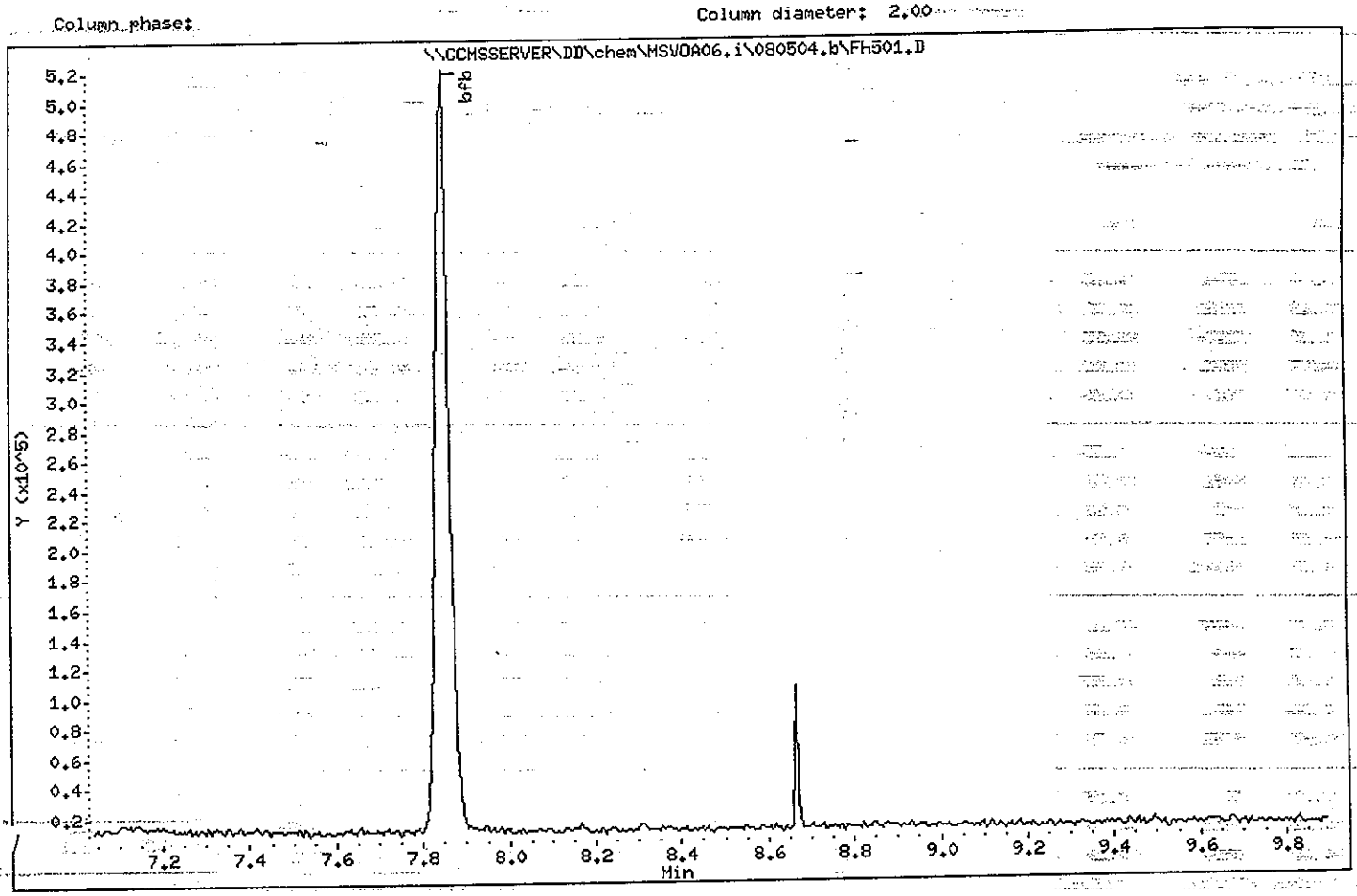
Volume Injected (uL): 1.0

Column phase:

Instrument: MSVOA06.i

Operator: VOA

Column diameter: 2.00



8260 5 ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06 Reviewed By: [illegible]
Calnum: 454284216002 Name: I6M826 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	fgf24	454284216024	5PPB	15-JUL-2004 23:42	04SS242 (100000X), 04WS1132B (50000X), 04WS1255 (1000X)
2	fgf25	454284216025	10PPB	16-JUL-2004 00:17	04SS242 (50000X), 04WS1132B (25000X), 04WS1255 (1000X)
3	fgf26	454284216026	20PPB	16-JUL-2004 00:52	04SS242 (25000X), 04WS1132B (12500X), 04WS1255 (1000X)
4	fgf27	454284216027	50PPB	16-JUL-2004 01:27	04SS242 (10000X), 04WS1132B (5000X), 04WS1255 (1000X)
5	fgf28	454284216028	62.5PPB	16-JUL-2004 02:02	04SS242 (8000X), 04WS1132B (4000X), 04WS1255 (1000X)
6	fgf29	454284216029	75PPB	16-JUL-2004 02:37	04SS242 (6667X), 04WS1132B (3333X), 04WS1255 (1000X)
7	fgf30	454284216030	100PPB	16-JUL-2004 03:11	04SS242 (5000X), 04WS1132B (2500X), 04WS1255 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	1.0737	1.0726	1.1622	1.3631	1.0851	1.2536	1.1696	AVRG	R		0.855758		ug/L	1.1686	9	0.0500	0.99	15	
Chloromethane	0.8807	0.8411	0.8114	0.8546	0.7490	0.8427	0.8072	AVRG	R		1.209695		ug/L	0.8267	5	0.1000	0.99	15	
Vinyl Chloride	0.3619m	0.3329	0.3340	0.3519	0.2915	0.3127	0.2761	AVRG	R		3.095962		ug/L	0.3230	10	0.0500	0.99	15	
Bromomethane	0.4982m	0.4582m	0.4163	0.5222	0.5050	0.5606	0.5219	AVRG	R		2.010061		ug/L	0.4975	9	0.0500	0.99	15	
Chloroethane	0.4051m	0.4033	0.3644	0.4374	0.3653	0.4250	0.3948	AVRG	R		2.504112		ug/L	0.3993	7	0.0500	0.99	15	
Trichlorofluoromethane	0.9010m	0.9386	0.9164	1.1064	0.9068	1.0129	0.9449	AVRG	R		1.040581		ug/L	0.9610	8	0.0500	0.99	15	
Acetone		0.5023	0.4328	0.3888	0.3670	0.3535	0.3407	AVRG	R		2.515613		ug/L	0.3975	15	0.0500	0.99	15	
Freon 113	0.4308m	0.5603	0.6513	0.7056	0.6284	0.6726	0.6587	AVRG	R		1.624983		ug/L	0.6154	15	0.0500	0.99	15	
1,1-Dichloroethene	0.4760m	0.5249m	0.5830m	0.6196	0.5483	0.5803	0.5705	AVRG	R		1.793716		ug/L	0.5575	8	0.0500	0.99	15	
Methylene Chloride		0.8081	0.7674	0.7708	0.7220	0.7209	0.7076	AVRG	R		1.334296		ug/L	0.7495	5	0.0500	0.99	15	
Carbon Disulfide	2.4801	2.3878	2.1515	2.1350	1.9489	1.9697	1.8868	AVRG	R		0.467920		ug/L	2.1371	11	0.0500	0.99	15	
MTBE	1.6948	1.7704	1.7659	1.7795	1.7050	1.7176	1.6823	AVRG	R		0.577778		ug/L	1.7308	2	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.6400m	0.6753	0.6910	0.7014	0.6542	0.6758	0.6666	AVRG	R		1.488003		ug/L	0.6720	3	0.0500	0.99	15	
Vinyl Acetate		1.9434	1.9911	1.9492	1.8471	1.7916	1.7456	AVRG	R		0.532480		ug/L	1.8780	5	0.0500	0.99	15	
1,1-Dichloroethane	1.2682	1.3421	1.3307	1.3621	1.2809	1.2726	1.2447	AVRG	R		0.769121		ug/L	1.3002	3	0.1000	0.99	15	
2-Butanone		0.6597	0.6495	0.6206	0.6013	0.5997	0.5777	AVRG	R		1.617971		ug/L	0.6181	5	0.0500	0.99	15	
2,2-Dichloropropane	0.6794	0.7671	0.8161	0.8814	0.7944	0.8449	0.8317	AVRG	R		1.246665		ug/L	0.8021	8	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.7155	0.7632	0.7341	0.7608	0.7188	0.7327	0.7304	AVRG	R		1.357808		ug/L	0.7365	3	0.0500	0.99	15	

* ICAL - OK
* ICV - OK

Flags used: m=manual integration for incomplete integration in Target
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

8260 S/CA

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06 Reviewed By:
Calnum: 454284216002 Name: I6M826 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Chloroform	1.2044	1.1872	1.2242	1.2381	1.1624	1.1752	1.1456	AVRG	R		0.839627		ug/L	1.1910	3	0.0500	0.99	15	
Bromochloromethane	0.4140	0.4087	0.4195	0.4338	0.4134	0.4238	0.4200	AVRG	R		2.386530		ug/L	0.4190	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.7169	0.8411	0.9135	0.9623	0.8845	0.9213	0.9009	AVRG	R		1.139978		ug/L	0.8772	9	0.0500	0.99	15	
1,1-Dichloropropene	0.4109	0.4714	0.5058	0.5503	0.4962	0.5342	0.5333	AVRG	R		1.998818		ug/L	0.5003	10	0.0500	0.99	15	
Carbon Tetrachloride	0.3309	0.4232	0.4832	0.5232	0.4793	0.5232	0.5235	AVRG	R		2.129874		ug/L	0.4695	15	0.0500	0.99	15	
1,2-Dichloroethane	0.5874	0.5676	0.5784	0.6056	0.5662	0.5833	0.5762	AVRG	R		1.722145		ug/L	0.5807	2	0.0500	0.99	15	
Benzene	1.3347	1.3943	1.4233	1.4308	1.3219	1.3601	1.3320	AVRG	R		0.729394		ug/L	1.3710	3	0.0500	0.99	15	
Trichloroethene	0.3858m	0.3940m	0.4166m	0.4390m	0.4072m	0.4344m	0.4337m	AVRG	R		2.404941		ug/L	0.4158	5	0.0500	0.99	15	
1,2-Dichloropropane	0.4183	0.4445	0.4563	0.4718	0.4425	0.4546	0.4636	AVRG	R		2.221042		ug/L	0.4502	4	0.0500	0.99	15	
Bromodichloromethane	0.5009	0.4898	0.5020	0.5304	0.5001	0.5148	0.5188	AVRG	R		1.968003		ug/L	0.5081	3	0.0500	0.99	15	
Dibromomethane	0.3565	0.3575	0.3664	0.3915	0.3713	0.3830	0.3859	AVRG	R		2.679937		ug/L	0.3731	4	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.6866	0.6974	0.7014	0.6592	0.6754	0.6682	AVRG	R		1.467630		ug/L	0.6814	2	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.5956	0.6229	0.6236	0.6645	0.6169	0.6295	0.6372	AVRG	R		1.594518		ug/L	0.6271	3	0.0500	0.99	15	
Toluene	0.8236	0.8592	0.8771	0.8957	0.8215	0.8405	0.8421	AVRG	R		1.174558		ug/L	0.8514	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.5184	0.5460	0.5520	0.5946	0.5562	0.5694	0.5651	AVRG	R		1.794067		ug/L	0.5574	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2191m	0.2322m	0.2352	0.2510	0.2387	0.2452	0.2466	AVRG	R		4.196727		ug/L	0.2383	5	0.0500	0.99	15	
2-Hexanone		0.6624	0.6888	0.6698	0.6609	0.6693	0.6554	AVRG	R		1.497544		ug/L	0.6678	2	0.0500	0.99	15	
1,3-Dichloropropane	0.7018	0.7537	0.7301	0.7442	0.7095	0.7350	0.7269	AVRG	R		1.372171		ug/L	0.7288	3	0.0500	0.99	15	
Tetrachloroethene	0.3721	0.4166	0.4408	0.4638	0.4326	0.4800	0.4710	AVRG	R		2.275089		ug/L	0.4395	8	0.0500	0.99	15	
Dibromochloromethane	0.5257	0.5542	0.5716	0.6062	0.5796	0.6110	0.6123	AVRG	R		1.723902		ug/L	0.5801	6	0.0500	0.99	15	
1,2-Dibromoethane	0.4289	0.4385	0.4496	0.4715	0.4436	0.4533	0.4547	AVRG	R		2.229218		ug/L	0.4486	3	0.0500	0.99	15	
Chlorobenzene	1.2533	1.2501	1.2517	1.2392	1.1899	1.2404	1.1911	AVRG	R		0.812470		ug/L	1.2308	2	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3862	0.4146	0.4245	0.4445	0.4294	0.4574	0.4510	AVRG	R		2.327466		ug/L	0.4297	6	0.0500	0.99	15	
Ethylbenzene	1.7496	1.8670	1.9405	1.9127	1.8064	1.8650	1.7843	AVRG	R		0.541564		ug/L	1.8465	4	0.0500	0.99	15	
m,p-Xylenes	0.6791	0.7408	0.7537	0.7609	0.7209	0.7596	0.7330	AVRG	R		1.359724		ug/L	0.7354	4	0.0500	0.99	15	
o-Xylene	0.6829	0.7170	0.7432	0.7653	0.7354	0.7618	0.7534	AVRG	R		1.356850		ug/L	0.7370	4	0.0500	0.99	15	
Styrene	1.1673	1.2334	1.2882	1.3187	1.2477	1.3020	1.2629	AVRG	R		0.793631		ug/L	1.2600	4	0.0500	0.99	15	
Bromoform	0.3500	0.3626	0.3930	0.4278	0.4115	0.4419	0.4417	AVRG	R		2.474934		ug/L	0.4041	9	0.1000	0.99	15	
Isopropylbenzene	3.1892	3.4905	3.6783	3.5764	3.3053	3.4583	3.3263	AVRG	R		0.291372		ug/L	3.4320	5	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	1.3992	1.4922	1.5127	1.4423	1.3807	1.4369	1.4146	AVRG	R		0.694547		ug/L	1.4398	3	0.3000	0.99	15	
1,2,3-Trichloropropane	0.3509	0.3736	0.3548	0.3551	0.3477	0.3564	0.3493	AVRG	R		2.813768		ug/L	0.3554	2	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

8260 S ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06 Reviewed By:
Calnum: 454284216002 Name: I6M826 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Propylbenzene	4.1419	4.4670	4.6170	4.4260	4.1095	4.2583	3.9836	AVRG	R		0.233308		ug/L	4.2862	5	0.0500	0.99	15	
Bromobenzene	1.0713	1.0329	1.0727	1.0945	1.0468	1.1134	1.0959	AVRG	R		0.929913		ug/L	1.0754	3	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.7473	2.9449	3.0347	2.9773	2.8162	2.9464	2.8263	AVRG	R		0.344946		ug/L	2.8990	4	0.0500	0.99	15	
2-Chlorotoluene	3.0055	3.0507	3.1128	2.9545	2.8000	2.8977	2.8092	AVRG	R		0.339304		ug/L	2.9472	4	0.0500	0.99	15	
4-Chlorotoluene	2.7113	2.8898	2.8159	2.7390	2.5997	2.7022	2.5417	AVRG	R		0.368428		ug/L	2.7142	4	0.0500	0.99	15	
tert-Butylbenzene	2.1462m	2.3747	2.5766	2.5673m	2.4057	2.5399	2.4861	AVRG	R		0.409440		ug/L	2.4424	6	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.8163	2.9539	3.0174	2.9726	2.8257	2.9265	2.7801	AVRG	R		0.344955		ug/L	2.8989	3	0.0500	0.99	15	
sec-Butylbenzene	3.3429	3.8365	4.0691	3.9479	3.6873	3.9006	3.6516	AVRG	R		0.264791		ug/L	3.7766	6	0.0500	0.99	15	
para-Isopropyl Toluene	2.6210	2.9215	3.0915	3.0673	2.8824	3.0366	2.8655	AVRG	R		0.341699		ug/L	2.9265	6	0.0500	0.99	15	
1,3-Dichlorobenzene	1.7407	1.7699	1.7463	1.7473	1.6689	1.7247	1.6851	AVRG	R		0.579330		ug/L	1.7261	2	0.0500	0.99	15	
1,4-Dichlorobenzene	1.7991	1.8694	1.8235	1.7825	1.6881	1.7666	1.7242	AVRG	R		0.562093		ug/L	1.7791	3	0.0500	0.99	15	
n-Butylbenzene	2.7518	2.9491	3.0526	2.9539	2.7369	2.8695	2.6818	AVRG	R		0.350079		ug/L	2.8565	5	0.0500	0.99	15	
1,2-Dichlorobenzene	1.6342	1.6772	1.6991	1.6645	1.6108	1.6653	1.6137	AVRG	R		0.605280		ug/L	1.6521	2	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.2378	0.2591	0.2643	0.2569	0.2516	0.2595	0.2547	AVRG	R		3.924089		ug/L	0.2548	3	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.9295	0.9356	0.9119	0.9215	0.8979	0.9476	0.9077	AVRG	R		1.084986		ug/L	0.9217	2	0.0500	0.99	15	
Hexachlorobutadiene	0.4693	0.5047	0.5061	0.5313	0.5052	0.5561	0.5528	AVRG	R		1.930730		ug/L	0.5179	6	0.0500	0.99	15	
Naphthalene	1.8444	2.0165	2.1501	2.2121	2.1438	2.2348	2.1354	AVRG	R		0.474993		ug/L	2.1053	6	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8722	0.8967	0.8996	0.9473	0.9063	0.9748	0.9495	AVRG	R		1.085867		ug/L	0.9209	4	0.0500	0.99	15	
Dibromofluoromethane	0.7853	0.7830	0.7769	0.7718	0.7652	0.7432	0.7552	AVRG	R		1.300967		ug/L	0.7687	2	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4027	0.4115	0.4153	0.4146	0.4064	0.4110	0.4218	AVRG	R		2.427697		ug/L	0.4119	2	0.0500	0.99	15	
Toluene-d8	1.0139	1.0177	0.9981	1.0194	0.9912	0.9855	1.0002	AVRG	R		0.996292		ug/L	1.0037	1	0.0500	0.99	15	
Bromofluorobenzene	1.1015	1.1171	1.1022	1.0920	1.0566	1.0702	1.0765	AVRG	R		0.919121		ug/L	1.0880	2	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-JUL-2004 23:42 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.001/100,04WS1132B,0.002/100
Misc Info : 5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 29 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.321	3.321	(0.368)	124529	5.00000	4.5943
2 Chloromethane	50	3.675	3.675	(0.408)	102137	5.00000	5.3267
3 Vinyl Chloride	62	3.843	3.843	(0.426)	41975	5.00000	5.6025(M)
4 Bromomethane	94	4.503	4.503	(0.500)	57780	5.00000	5.0335(M)
5 Chloroethane	64	4.631	4.631	(0.514)	46980	5.00000	5.0718(M)
6 Trichlorofluoromethane	101	5.074	5.074	(0.563)	104495	5.00000	4.6878(M)
7 Acetone	43	5.645	5.645	(0.626)	67456	5.00000	7.3158
8 Freon 113	101	5.783	5.783	(0.642)	49967	5.00000	3.5005(M)
9 1,1-Dichloroethene	96	5.960	5.960	(0.661)	55202	5.00000	4.2855(M)
10 Methylene Chloride	84	6.590	6.590	(0.731)	102534	5.00000	5.8982
11 Carbon Disulfide	76	6.679	6.679	(0.741)	287629	5.00000	5.8023
12 MTBE	73	6.935	6.935	(0.769)	196556	5.00000	4.8960
13 trans-1,2-Dichloroethene	96	7.103	7.103	(0.788)	74223	5.00000	4.7615(M)
14 Vinyl Acetate	43	7.654	7.654	(0.849)	219414	5.00000	5.0369
15 1,1-Dichloroethane	63	7.674	7.674	(0.851)	147079	5.00000	4.8769
16 2-Butanone	43	8.235	8.235	(0.914)	74413	5.00000	5.1906

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.560	8.560	(0.950)	78794	5.00000	4.2349
	18 cis-1,2-Dichloroethene	96	8.570	8.570	(0.951)	82977	5.00000	4.8573
	19 Chloroform	83	8.826	8.826	(0.979)	139679	5.00000	5.0561
*	20 Pentafluorobenzene	168	9.013	9.013	(1.000)	1159758	50.0000	
	21 Bromochloromethane	128	9.023	9.023	(1.001)	48018	5.00000	4.9405
$	22 Dibromofluoromethane	113	9.112	9.112	(1.011)	910702	50.0000	51.0793
	23 1,1,1-Trichloroethane	97	9.486	9.486	(1.052)	83140	5.00000	4.0861
	24 1,1-Dichloropropene	75	9.742	9.742	(0.927)	81973	5.00000	4.1068
$	25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	803283	50.0000	48.8797
	26 Carbon Tetrachloride	117	9.909	9.909	(0.943)	66009	5.00000	3.5238
	27 1,2-Dichloroethane	62	9.988	9.988	(0.950)	117178	5.00000	5.0580
	28 Benzene	78	10.106	10.106	(0.962)	266244	5.00000	4.8675
*	29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	1994824	50.0000	
	30 Trichloroethene	95	11.081	11.081	(1.054)	76964	5.00000	4.8837(M)
	31 1,2-Dichloropropane	63	11.298	11.298	(1.075)	83444	5.00000	4.6453
	32 Bromodichloromethane	83	11.633	11.633	(1.107)	99919	5.00000	4.9287
	33 Dibromomethane	93	11.682	11.682	(1.111)	71115	5.00000	4.7769
	34 2-Chloroethylvinylether	63	13.120	13.120	(1.248)	23339	5.00000	4.3312
	35 4-Methyl-2-Pentanone	43	12.204	12.204	(1.161)	122689	5.00000	4.5132
	36 cis-1,3-Dichloropropene	75	12.509	12.509	(1.190)	118802	5.00000	4.7480
$	37 Toluene-d8	98	12.992	12.992	(1.236)	2022584	50.0000	50.5078
	38 Toluene	92	13.130	13.130	(1.249)	164296	5.00000	4.8368
	39 trans-1,3-Dichloropropene	75	13.307	13.307	(1.266)	103420	5.00000	4.6505
	40 1,1,2-Trichloroethane	85	13.573	13.573	(1.291)	43703	5.00000	4.6386(M)
	41 2-Hexanone	43	13.632	13.632	(0.878)	92893	5.00000	4.3412
	42 1,3-Dichloropropane	76	13.986	13.986	(0.901)	112451	5.00000	4.8152
	43 Tetrachloroethene	166	14.272	14.272	(0.919)	59622	5.00000	4.2330
	44 Dibromochloromethane	129	14.449	14.449	(0.931)	84233	5.00000	4.5315
	45 1,2-Dibromoethane	107	14.804	14.804	(1.409)	85562	5.00000	4.7807
*	46 Chlorobenzene-d5	117	15.523	15.523	(1.000)	1602210	50.0000	
	47 Chlorobenzene	112	15.592	15.592	(1.004)	200808	5.00000	5.0914
	48 1,1,1,2-Tetrachloroethane	131	15.661	15.661	(1.009)	61872	5.00000	4.4939
	49 1-Chlorohexane	91	15.867	15.867	(1.022)	433785	5.00000	4.9239
	50 Ethylbenzene	91	15.720	15.720	(1.013)	280320	5.00000	4.7375
	51 m,p-Xylenes	106	15.867	15.867	(1.022)	217602	10.0000	9.2334
	52 o-Xylene	106	16.626	16.626	(1.071)	109422	5.00000	4.6332
	53 Styrene	104	16.645	16.645	(1.072)	187030	5.00000	4.6321
	54 Bromoform	173	17.138	17.138	(1.104)	56085	5.00000	4.3317
	55 Isopropylbenzene	105	17.276	17.276	(0.872)	242015	5.00000	4.6461
	56 1,1,2,2-Tetrachloroethane	83	17.443	17.443	(0.880)	106180	5.00000	4.8590
$	57 Bromofluorobenzene	95	17.650	17.650	(0.891)	835855	50.0000	50.6185
	58 1,2,3-Trichloropropane	110	17.699	17.699	(0.893)	26628	5.00000	4.9366
	59 Propylbenzene	91	18.004	18.004	(0.909)	314312	5.00000	4.8316
	60 Bromobenzene	156	18.004	18.004	(0.909)	81297	5.00000	4.9810
	61 1,3,5-Trimethylbenzene	105	18.290	18.290	(0.923)	208479	5.00000	4.7382
	62 2-Chlorotoluene	91	18.290	18.290	(0.923)	228074	5.00000	5.0988
	63 4-Chlorotoluene	91	18.369	18.369	(0.927)	205751	5.00000	4.9946

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Report Date: 16-Jul-2004 10:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 tert-Butylbenzene	119	18.940	18.940	(0.956)	162869	5.00000	4.3248(M)
65 1,2,4-Trimethylbenzene	105	19.009	19.009	(0.959)	213716	5.00000	4.8574
66 sec-Butylbenzene	105	19.344	19.344	(0.976)	253684	5.00000	4.4259
67 para-Isopropyl Toluene	119	19.590	19.590	(0.989)	198898	5.00000	4.4779
68 1,3-Dichlorobenzene	146	19.698	19.698	(0.994)	132097	5.00000	5.0422
* 69 1,4-Dichlorobenzene-d4	152	19.816	19.816	(1.000)	758863	50.0000	
70 1,4-Dichlorobenzene	146	19.876	19.876	(1.003)	136528	5.00000	5.0563
71 n-Butylbenzene	91	20.348	20.348	(1.027)	208821	5.00000	4.8166
72 1,2-Dichlorobenzene	146	20.545	20.545	(1.037)	124017	5.00000	4.9458
73 1,2-Dibromo-3-Chloropropane	75	21.904	21.904	(1.105)	18049	5.00000	4.6665
74 1,2,4-Trichlorobenzene	180	23.490	23.490	(1.185)	70535	5.00000	5.0423
75 Hexachlorobutadiene	225	23.775	23.775	(1.200)	35615	5.00000	4.5306
76 Naphthalene	128	23.844	23.844	(1.203)	139968	5.00000	4.3804
77 1,2,3-Trichlorobenzene	180	24.278	24.278	(1.225)	66189	5.00000	4.7355

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA06.i\071504.b\FGF24.D
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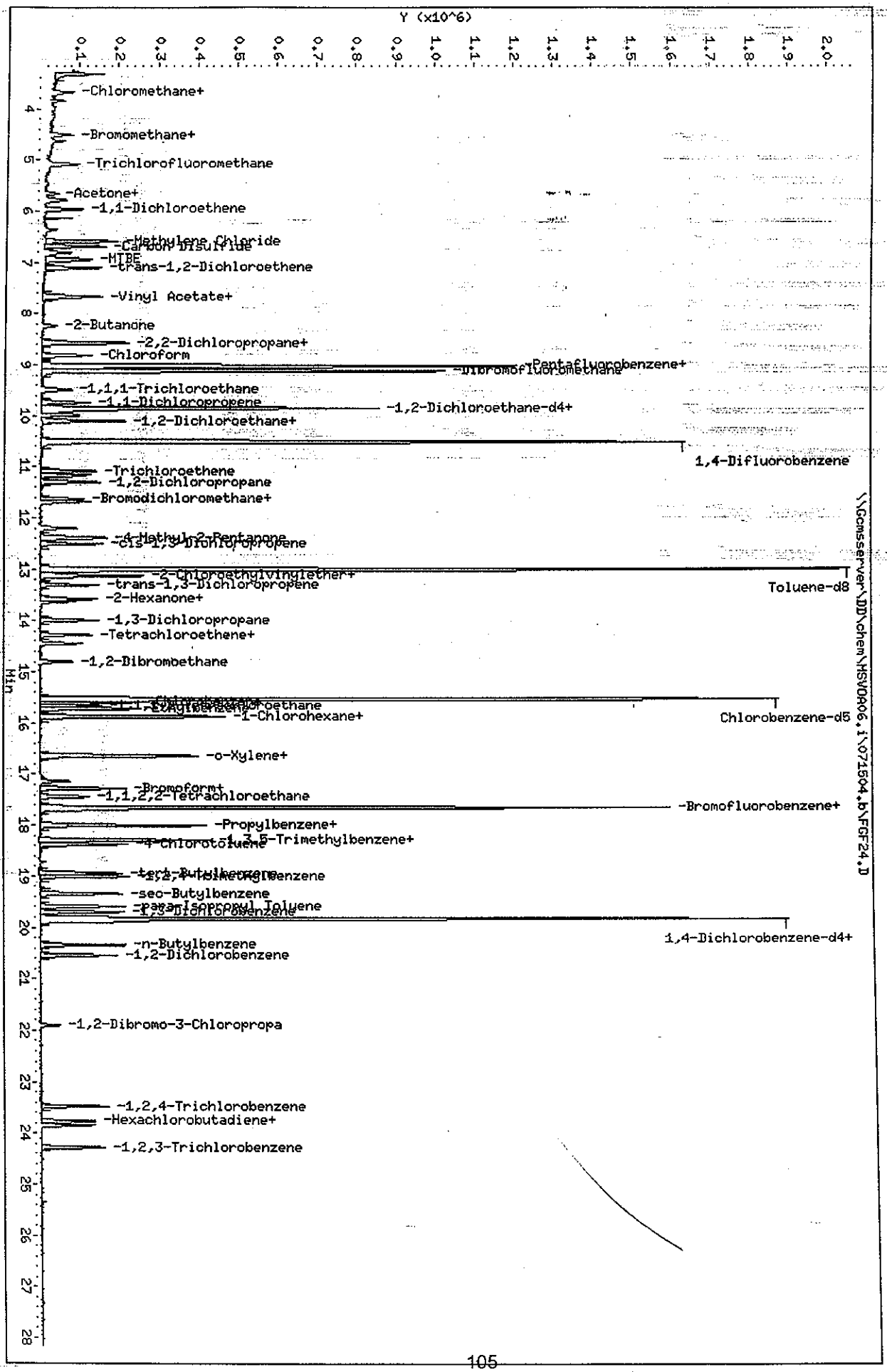
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.001/100,04NS1132B,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 00:17 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.002/100,04WS1132B,0.004/100
Misc Info : 10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 30 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.317	3.317	(0.368)	250216	10.0000	9.1786
2 Chloromethane	50	3.681	3.681	(0.408)	196219	10.0000	10.1749
3 Vinyl Chloride	62	3.839	3.839	(0.426)	77651	10.0000	10.3052
4 Bromomethane	94	4.498	4.498	(0.499)	106894	10.0000	9.2103(M)
5 Chloroethane	64	4.636	4.636	(0.514)	94095	10.0000	10.1002
6 Trichlorofluoromethane	101	5.080	5.080	(0.563)	218952	10.0000	9.7664
7 Acetone	43	5.651	5.651	(0.627)	117175	10.0000	12.6355
8 Freon 113	101	5.779	5.779	(0.641)	130711	10.0000	9.1048
9 1,1-Dichloroethene	96	5.956	5.956	(0.660)	122458	10.0000	9.4231(M)
10 Methylene Chloride	84	6.586	6.586	(0.730)	188522	10.0000	10.7827
11 Carbon Disulfide	76	6.685	6.685	(0.741)	557032	10.0000	11.1728
12 MTBE	73	6.941	6.941	(0.770)	412996	10.0000	10.2287
13 trans-1,2-Dichloroethene	96	7.098	7.098	(0.787)	157527	10.0000	10.0478
14 Vinyl Acetate	43	7.650	7.650	(0.848)	453371	10.0000	10.3483
15 1,1-Dichloroethane	63	7.679	7.679	(0.852)	313099	10.0000	10.3226
16 2-Butanone	43	8.241	8.241	(0.914)	153895	10.0000	10.6735

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.566	8.566	(0.950)	178956	10.0000	9.5633
	18 cis-1,2-Dichloroethene	96	8.576	8.576	(0.951)	178042	10.0000	10.3627
	19 Chloroform	83	8.822	8.822	(0.978)	276953	10.0000	9.9679
*	20 Pentafluorobenzene	168	9.019	9.019	(1.000)	1166423	50.0000	
	21 Bromochloromethane	128	9.019	9.019	(1.000)	95333	10.0000	9.7526
$	22 Dibromofluoromethane	113	9.117	9.117	(1.011)	913285	50.0000	50.9315
	23 1,1,1-Trichloroethane	97	9.491	9.491	(1.052)	196222	10.0000	9.5886
	24 1,1-Dichloropropene	75	9.748	9.748	(0.928)	189003	10.0000	9.4222
$	25 1,2-Dichloroethane-d4	65	9.846	9.846	(0.937)	824919	50.0000	49.9478
	26 Carbon Tetrachloride	117	9.915	9.915	(0.944)	169701	10.0000	9.0146
	27 1,2-Dichloroethane	62	9.994	9.994	(0.951)	227573	10.0000	9.7746
	28 Benzene	78	10.102	10.102	(0.962)	559026	10.0000	10.1696
*	29 1,4-Difluorobenzene	114	10.506	10.506	(1.000)	2004743	50.0000	
	30 Trichloroethene	95	11.087	11.087	(1.055)	157960	10.0000	9.9060(M)
	31 1,2-Dichloropropane	63	11.294	11.294	(1.075)	178234	10.0000	9.8732
	32 Bromodichloromethane	83	11.638	11.638	(1.108)	196370	10.0000	9.6385
	33 Dibromomethane	93	11.688	11.688	(1.112)	143343	10.0000	9.5810
	34 2-Chloroethylvinylether	63	13.116	13.116	(1.248)	55158	10.0000	10.1856
	35 4-Methyl-2-Pentanone	43	12.200	12.200	(1.161)	275295	10.0000	10.0768
	36 cis-1,3-Dichloropropene	75	12.505	12.505	(1.190)	249731	10.0000	9.9314
$	37 Toluene-d8	98	12.997	12.997	(1.237)	2040303	50.0000	50.6981
	38 Toluene	92	13.125	13.125	(1.249)	344497	10.0000	10.0918
	39 trans-1,3-Dichloropropene	75	13.303	13.303	(1.266)	218898	10.0000	9.7947
	40 1,1,2-Trichloroethane	85	13.569	13.569	(1.292)	93119	10.0000	9.7467(M)
	41 2-Hexanone	43	13.618	13.618	(0.877)	209877	10.0000	9.9196
	42 1,3-Dichloropropane	76	13.982	13.982	(0.900)	238822	10.0000	10.3426
	43 Tetrachloroethene	166	14.278	14.278	(0.919)	131996	10.0000	9.4778
	44 Dibromochloromethane	129	14.445	14.445	(0.930)	175599	10.0000	9.5539
	45 1,2-Dibromoethane	107	14.800	14.800	(1.409)	175818	10.0000	9.7752
*	46 Chlorobenzene-d5	117	15.528	15.528	(1.000)	1584237	50.0000	
	47 Chlorobenzene	112	15.587	15.587	(1.004)	396088	10.0000	10.1566
	48 1,1,1,2-Tetrachloroethane	131	15.656	15.656	(1.008)	131350	10.0000	9.6485
	49 1-Chlorohexane	91	15.873	15.873	(1.022)	910555	10.0000	10.4529
	50 Ethylbenzene	91	15.715	15.715	(1.012)	591545	10.0000	10.1108
	51 m,p-Xylenes	106	15.873	15.873	(1.022)	469465	20.0000	20.1467
	52 o-Xylene	106	16.631	16.631	(1.071)	227188	10.0000	9.7289
	53 Styrene	104	16.641	16.641	(1.072)	390800	10.0000	9.7886
	54 Bromoform	173	17.134	17.134	(1.103)	114876	10.0000	8.9731
	55 Isopropylbenzene	105	17.271	17.271	(0.871)	519497	10.0000	10.1703
	56 1,1,2,2-Tetrachloroethane	83	17.439	17.439	(0.880)	222090	10.0000	10.3642
$	57 Bromofluorobenzene	95	17.646	17.646	(0.890)	831272	50.0000	51.3358
	58 1,2,3-Trichloropropane	110	17.705	17.705	(0.893)	55610	10.0000	10.5134
	59 Propylbenzene	91	18.000	18.000	(0.908)	664835	10.0000	10.4219
	60 Bromobenzene	156	18.000	18.000	(0.908)	153729	10.0000	9.6051
	61 1,3,5-Trimethylbenzene	105	18.296	18.296	(0.923)	438290	10.0000	10.1582
	62 2-Chlorotoluene	91	18.286	18.286	(0.922)	454047	10.0000	10.3513
	63 4-Chlorotoluene	91	18.374	18.374	(0.927)	430095	10.0000	10.6468

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Report Date: 16-Jul-2004 10:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 tert-Butylbenzene	119	18.946	18.946	(0.956)	353437	10.0000	9.5706
65 1,2,4-Trimethylbenzene	105	19.005	19.005	(0.959)	439629	10.0000	10.1895
66 sec-Butylbenzene	105	19.340	19.340	(0.976)	570996	10.0000	10.1587
67 para-Isopropyl Toluene	119	19.586	19.586	(0.988)	434816	10.0000	9.9828
68 1,3-Dichlorobenzene	146	19.704	19.704	(0.994)	263419	10.0000	10.2536
* 69 1,4-Dichlorobenzene-d4	152	19.822	19.822	(1.000)	744157	50.0000	
70 1,4-Dichlorobenzene	146	19.881	19.881	(1.003)	278224	10.0000	10.5077
71 n-Butylbenzene	91	20.344	20.344	(1.026)	438920	10.0000	10.3242
72 1,2-Dichlorobenzene	146	20.541	20.541	(1.036)	249621	10.0000	10.1517
73 1,2-Dibromo-3-Chloropropane	75	21.900	21.900	(1.105)	38556	10.0000	10.1656
74 1,2,4-Trichlorobenzene	180	23.486	23.486	(1.185)	139249	10.0000	10.1512
75 Hexachlorobutadiene	225	23.771	23.771	(1.199)	75122	10.0000	9.7452
76 Naphthalene	128	23.850	23.850	(1.203)	300112	10.0000	9.5780
77 1,2,3-Trichlorobenzene	180	24.273	24.273	(1.225)	133459	10.0000	9.7371

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\071504.b\FGF25.D
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Client ID: DYNA P&T
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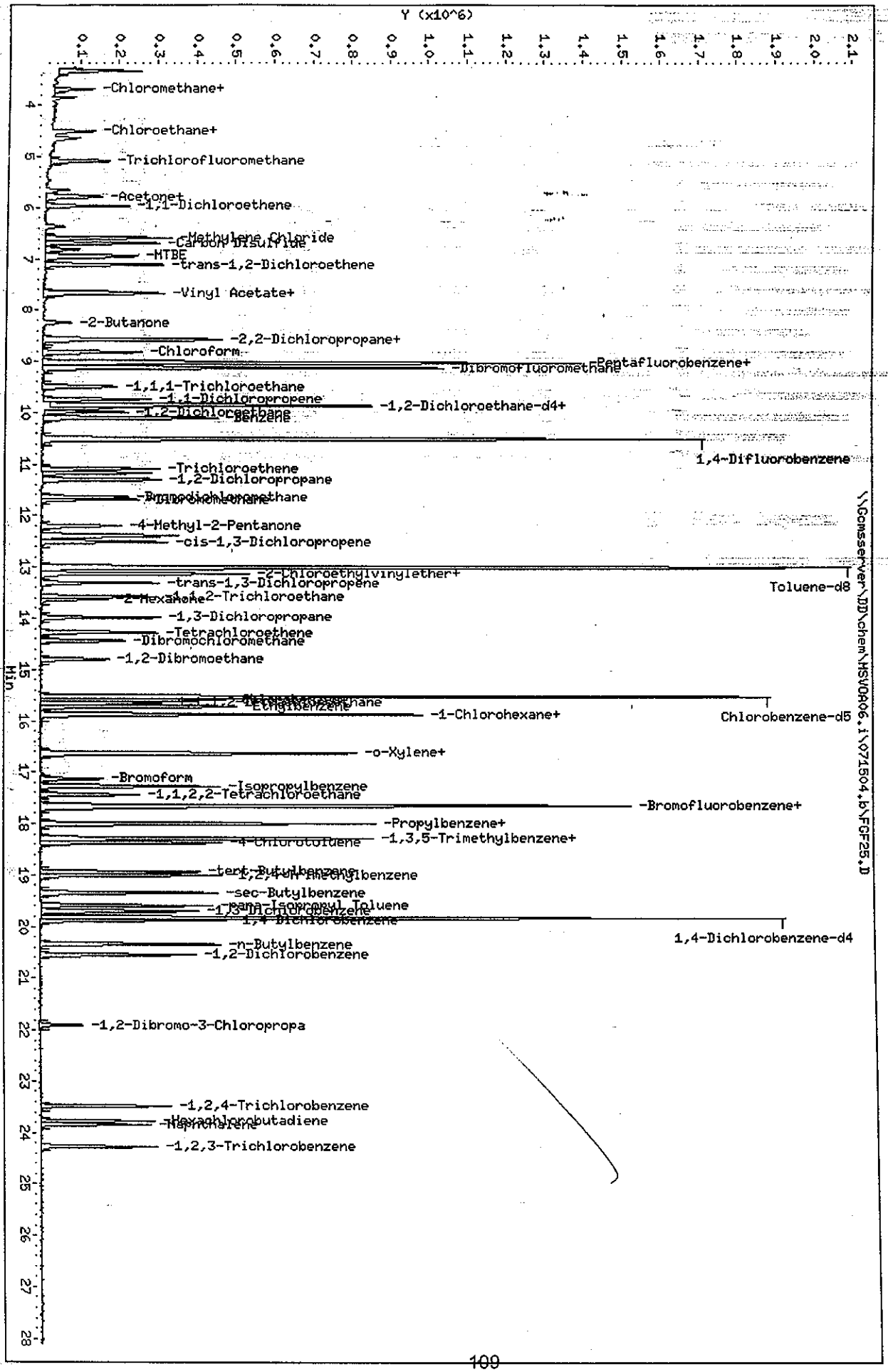
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



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Report Date: 16-Jul-2004 10:04

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Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF26.D
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Inj Date : 16-JUL-2004 00:52 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
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Misc Info : 20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 31 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.318	3.318	(0.368)	564815	20.0000	19.8910
2 Chloromethane	50	3.682	3.682	(0.408)	394310	20.0000	19.6297
3 Vinyl Chloride	62	3.840	3.840	(0.426)	162320	20.0000	20.6808
4 Bromomethane	94	4.499	4.499	(0.499)	202335	20.0000	16.7371
5 Chloroethane	64	4.637	4.637	(0.514)	177107	20.0000	18.2511
6 Trichlorofluoromethane	101	5.080	5.080	(0.563)	445370	20.0000	19.0720
7 Acetone	43	5.652	5.652	(0.627)	210354	20.0000	21.7768
8 Freon 113	101	5.780	5.780	(0.641)	316529	20.0000	21.1671
9 1,1-Dichloroethene	96	5.967	5.967	(0.662)	283335	20.0000	20.9148(M)
10 Methylene Chloride	84	6.587	6.587	(0.730)	372937	20.0000	20.4780
11 Carbon Disulfide	76	6.676	6.676	(0.740)	1045592	20.0000	20.1342
12 MTBE	73	6.942	6.942	(0.770)	858208	20.0000	20.4058
13 trans-1,2-Dichloroethene	96	7.099	7.099	(0.787)	335831	20.0000	20.5648
14 Vinyl Acetate	43	7.651	7.651	(0.848)	967681	20.0000	21.2049
15 1,1-Dichloroethane	63	7.680	7.680	(0.852)	646732	20.0000	20.4701
16 2-Butanone	43	8.232	8.232	(0.913)	315630	20.0000	21.0159

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF26.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.567	8.567	(0.950)	396635	20.0000	20.3489
	18 cis-1,2-Dichloroethene	96	8.567	8.567	(0.950)	356758	20.0000	19.9348
	19 Chloroform	83	8.823	8.823	(0.978)	594972	20.0000	20.5581
*	20 Pentafluorobenzene	168	9.020	9.020	(1.000)	1214980	50.0000	
	21 Bromochloromethane	128	9.020	9.020	(1.000)	203852	20.0000	20.0208
$	22 Dibromofluoromethane	113	9.118	9.118	(1.011)	943903	50.0000	50.5352
	23 1,1,1-Trichloroethane	97	9.492	9.492	(1.052)	443937	20.0000	20.8266
	24 1,1-Dichloropropene	75	9.748	9.748	(0.928)	414427	20.0000	20.2193
$	25 1,2-Dichloroethane-d4	65	9.847	9.847	(0.937)	850815	50.0000	50.4167
	26 Carbon Tetrachloride	117	9.916	9.916	(0.944)	395964	20.0000	20.5851
	27 1,2-Dichloroethane	62	9.995	9.995	(0.951)	473923	20.0000	19.9215
	28 Benzene	78	10.103	10.103	(0.962)	1166251	20.0000	20.7634
*	29 1,4-Difluorobenzene	114	10.507	10.507	(1.000)	2048449	50.0000	
	30 Trichloroethene	95	11.088	11.088	(1.055)	341350	20.0000	20.7611(M) Not Filed by
	31 1,2-Dichloropropane	63	11.295	11.295	(1.075)	373885	20.0000	20.2693
	32 Bromodichloromethane	83	11.639	11.639	(1.108)	411355	20.0000	19.7600
	33 Dibromomethane	93	11.688	11.688	(1.112)	300202	20.0000	19.6373
	34 2-Chloroethylvinylether	63	13.126	13.126	(1.249)	107872	20.0000	19.4949
	35 4-Methyl-2-Pentanone	43	12.201	12.201	(1.161)	571424	20.0000	20.4701
	36 cis-1,3-Dichloropropene	75	12.506	12.506	(1.190)	510962	20.0000	19.8867
$	37 Toluene-d8	98	12.998	12.998	(1.237)	2044481	50.0000	49.7180
	38 Toluene	92	13.126	13.126	(1.249)	718691	20.0000	20.6044
	39 trans-1,3-Dichloropropene	75	13.304	13.304	(1.266)	452328	20.0000	19.8078
	40 1,1,2-Trichloroethane	85	13.569	13.569	(1.291)	192699	20.0000	19.7394
	41 2-Hexanone	43	13.619	13.619	(0.877)	444730	20.0000	20.6296
	42 1,3-Dichloropropane	76	13.983	13.983	(0.900)	471417	20.0000	20.0368
	43 Tetrachloroethene	166	14.279	14.279	(0.919)	284584	20.0000	20.0551
	44 Dibromochloromethane	129	14.446	14.446	(0.930)	369043	20.0000	19.7063
	45 1,2-Dibromoethane	107	14.800	14.800	(1.409)	368362	20.0000	20.0434
*	46 Chlorobenzene-d5	117	15.529	15.529	(1.000)	1614185	50.0000	
	47 Chlorobenzene	112	15.588	15.588	(1.004)	808192	20.0000	20.3394
	48 1,1,1,2-Tetrachloroethane	131	15.657	15.657	(1.008)	274081	20.0000	19.7596
	49 1-Chlorohexane	91	15.874	15.874	(1.022)	1888824	20.0000	21.2810
	50 Ethylbenzene	91	15.716	15.716	(1.012)	1252931	20.0000	21.0181
	51 m,p-Xylenes	106	15.874	15.874	(1.022)	973239	40.0000	40.9908
	52 o-Xylene	106	16.622	16.622	(1.070)	479852	20.0000	20.1676
	53 Styrene	104	16.642	16.642	(1.072)	831747	20.0000	20.4468
	54 Bromoform	173	17.134	17.134	(1.103)	253725	20.0000	19.4510
	55 Isopropylbenzene	105	17.272	17.272	(0.871)	1144278	20.0000	21.4352
	56 1,1,2,2-Tetrachloroethane	83	17.440	17.440	(0.880)	470578	20.0000	21.0127
$	57 Bromofluorobenzene	95	17.647	17.647	(0.890)	857159	50.0000	50.6505
	58 1,2,3-Trichloropropane	110	17.696	17.696	(0.893)	110371	20.0000	19.9661
	59 Propylbenzene	91	18.001	18.001	(0.908)	1436267	20.0000	21.5434
	60 Bromobenzene	156	18.001	18.001	(0.908)	333700	20.0000	19.9502
	61 1,3,5-Trimethylbenzene	105	18.297	18.297	(0.923)	944041	20.0000	20.9359
	62 2-Chlorotoluene	91	18.287	18.287	(0.923)	968337	20.0000	21.1235
	63 4-Chlorotoluene	91	18.375	18.375	(0.927)	875996	20.0000	20.7493

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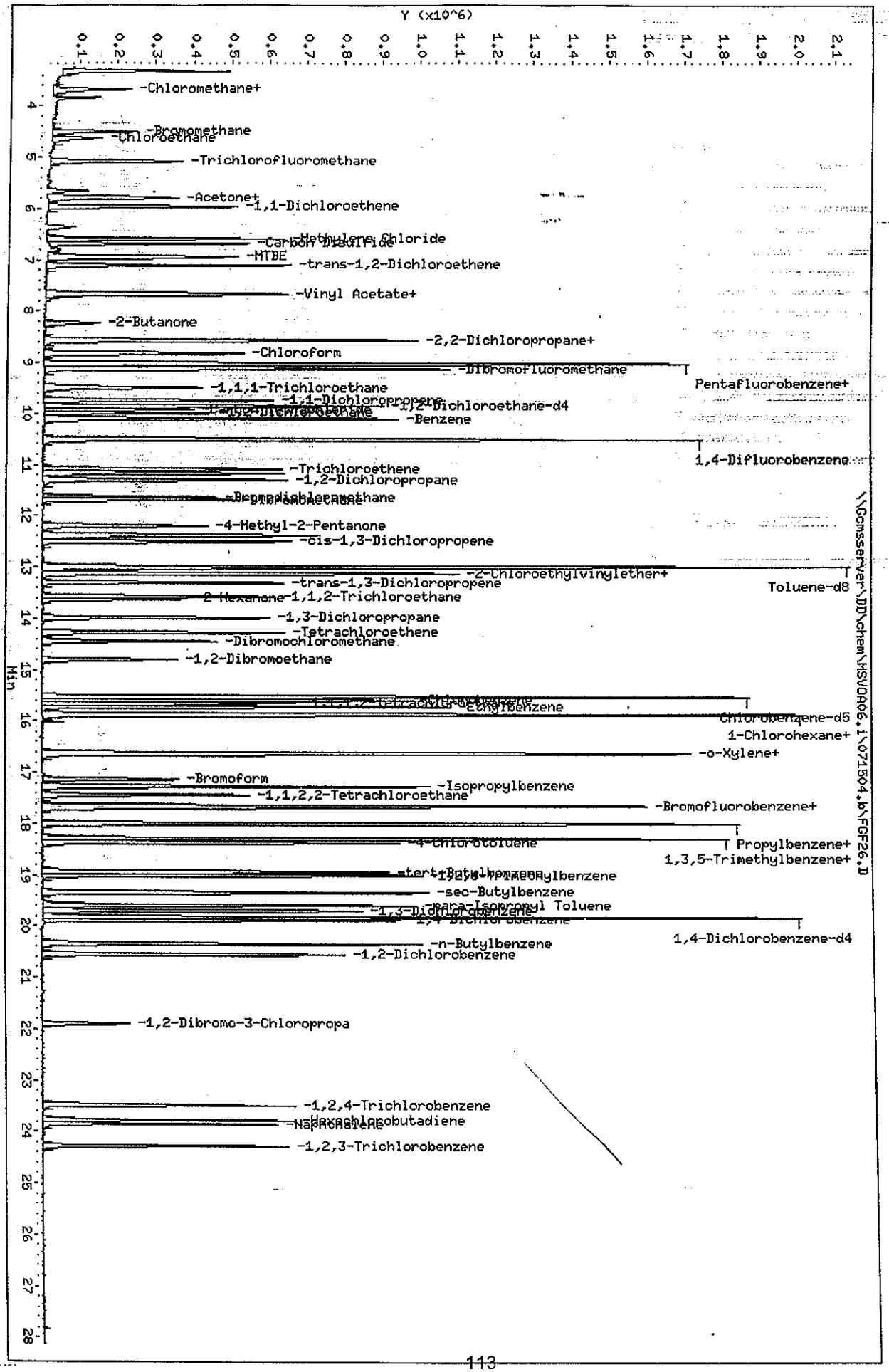
Report Date: 16-Jul-2004 10:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 tert-Butylbenzene	119	18.947	18.947	(0.956)	801545	20.0000	20.7683
65 1,2,4-Trimethylbenzene	105	19.006	19.006	(0.959)	938680	20.0000	20.8176
66 sec-Butylbenzene	105	19.340	19.340	(0.976)	1265833	20.0000	21.5491
67 para-Isopropyl Toluene	119	19.587	19.587	(0.988)	961720	20.0000	21.1272
68 1,3-Dichlorobenzene	146	19.705	19.705	(0.994)	543247	20.0000	20.2336
* 69 1,4-Dichlorobenzene-d4	152	19.823	19.823	(1.000)	777714	50.0000	
70 1,4-Dichlorobenzene	146	19.882	19.882	(1.003)	567269	20.0000	20.4996
71 n-Butylbenzene	91	20.345	20.345	(1.026)	949605	20.0000	21.3726
72 1,2-Dichlorobenzene	146	20.552	20.552	(1.037)	528556	20.0000	20.5682
73 1,2-Dibromo-3-Chloropropane	75	21.901	21.901	(1.105)	82221	20.0000	20.7430
74 1,2,4-Trichlorobenzene	180	23.486	23.486	(1.185)	283688	20.0000	19.7886
75 Hexachlorobutadiene	225	23.772	23.772	(1.199)	157442	20.0000	19.5430
76 Naphthalene	128	23.851	23.851	(1.203)	668859	20.0000	20.4254
77 1,2,3-Trichlorobenzene	180	24.274	24.274	(1.225)	279845	20.0000	19.5363

QC Flag Legend

M - Compound response manually integrated.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Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32
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Min
-Chloromethane+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acetone+
-1,1-Dichloroethene
-Carbon Disulfide
-Methylene Chloride
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-2-Butanone
-2,2-Dichloropropane+
-Chloroform
-Dibromofluoromethane
Pentafluorobenzene+
-1,1,1-Trichloroethane
-1,1-Dichloropropene
-1,2-Dichloroethane-d4
-Benzene
1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane
-Bromodichloromethane
-Bromoethane
-4-Methyl-2-Pentanone
-cis-1,3-Dichloropropene
-2-Chloroethylvinylether+
-trans-1,3-Dichloropropene
Toluene-d8
-2-Hexanone
-1,1,2-Trichloroethane
-1,3-Dichloropropane
-Tetrachloroethene
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene
-1,1,1,2-Tetrachloroethane
-Ethylbenzene
Chlorobenzene-d5
1-Chlorohexane+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane
-Bromofluorobenzene+
-4-Chlorotoluene
Propylbenzene+
1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene
1,4-Dichlorobenzene-d4
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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Report Date: 16-Jul-2004 10:04

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Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF27.D
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Smp Info : ICAL,04SS242,0.0005/5,04WS1132B,0.001/5
Misc Info : 50PPB, NP NL
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Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.320	3.320	(0.368)	1745973	50.0000	58.3237
2 Chloromethane	50	3.675	3.675	(0.407)	1094666	50.0000	51.6909
3 Vinyl Chloride	62	3.842	3.842	(0.426)	450787	50.0000	54.4784
4 Bromomethane	94	4.502	4.502	(0.499)	668859	50.0000	52.4809
5 Chloroethane	64	4.630	4.630	(0.513)	560316	50.0000	54.7701
6 Trichlorofluoromethane	101	5.083	5.083	(0.563)	1417146	50.0000	57.5636
7 Acetone	43	5.645	5.645	(0.626)	498062	50.0000	48.9085
8 Freon 113	101	5.782	5.782	(0.641)	903736	50.0000	57.3254
9 1,1-Dichloroethene	96	5.960	5.960	(0.661)	793577	50.0000	55.5648
10 Methylene Chloride	84	6.590	6.590	(0.730)	987327	50.0000	51.4245
11 Carbon Disulfide	76	6.689	6.689	(0.741)	2734736	50.0000	49.9510
12 MTBE	73	6.935	6.935	(0.769)	2279387	50.0000	51.4086
13 trans-1,2-Dichloroethene	96	7.112	7.112	(0.788)	898443	50.0000	52.1857
14 Vinyl Acetate	43	7.654	7.654	(0.848)	2496663	50.0000	51.8944
15 1,1-Dichloroethane	63	7.683	7.683	(0.852)	1744676	50.0000	52.3801
16 2-Butanone	43	8.235	8.235	(0.913)	794895	50.0000	50.2039

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF27.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.570	8.570	(0.950)	1128918	50.0000	54.9376
	18 cis-1,2-Dichloroethene	96	8.570	8.570	(0.950)	974543	50.0000	51.6531
	19 Chloroform	83	8.826	8.826	(0.978)	1585831	50.0000	51.9757
*	20 Pentafluorobenzene	168	9.023	9.023	(1.000)	1280892	50.0000	
	21 Bromochloromethane	128	9.023	9.023	(1.000)	555688	50.0000	51.7672
$	22 Dibromofluoromethane	113	9.121	9.121	(1.011)	988633	50.0000	50.2063
	23 1,1,1-Trichloroethane	97	9.495	9.495	(1.052)	1232639	50.0000	54.8516
	24 1,1-Dichloropropene	75	9.751	9.751	(0.928)	1168953	50.0000	55.0012
$	25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	880673	50.0000	50.3281
	26 Carbon Tetrachloride	117	9.919	9.919	(0.944)	1111264	50.0000	55.7151
	27 1,2-Dichloroethane	62	9.997	9.997	(0.951)	1286405	50.0000	52.1494
	28 Benzene	78	10.106	10.106	(0.962)	3039028	50.0000	52.1793
*	29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	2124066	50.0000	
	30 Trichloroethene	95	11.091	11.091	(1.055)	932396	50.0000	54.2277(M)
	31 1,2-Dichloropropane	63	11.307	11.307	(1.076)	1002166	50.0000	52.3960
	32 Bromodichloromethane	83	11.642	11.642	(1.108)	1126680	50.0000	52.1949
	33 Dibromomethane	93	11.691	11.691	(1.112)	831532	50.0000	52.4572
	34 2-Chloroethylvinylether	63	13.129	13.129	(1.249)	301671	50.0000	52.5781
	35 4-Methyl-2-Pentanone	43	12.203	12.203	(1.161)	1489727	50.0000	51.4665
	36 cis-1,3-Dichloropropene	75	12.509	12.509	(1.190)	1411357	50.0000	52.9746
$	37 Toluene-d8	98	13.001	13.001	(1.237)	2165373	50.0000	50.7833
	38 Toluene	92	13.129	13.129	(1.249)	1902428	50.0000	52.5998
	39 trans-1,3-Dichloropropene	75	13.306	13.306	(1.266)	1263069	50.0000	53.3418
	40 1,1,2-Trichloroethane	85	13.572	13.572	(1.291)	533176	50.0000	52.6724
	41 2-Hexanone	43	13.622	13.622	(0.877)	1162601	50.0000	50.1524
	42 1,3-Dichloropropane	76	13.986	13.986	(0.900)	1291700	50.0000	51.0566
	43 Tetrachloroethene	166	14.281	14.281	(0.919)	804995	50.0000	52.7562
	44 Dibromochloromethane	129	14.449	14.449	(0.930)	1052177	50.0000	52.2496
	45 1,2-Dibromoethane	107	14.803	14.803	(1.409)	1001558	50.0000	52.5570
*	46 Chlorobenzene-d5	117	15.532	15.532	(1.000)	1735753	50.0000	
	47 Chlorobenzene	112	15.601	15.601	(1.004)	2150977	50.0000	50.3413
	48 1,1,1,2-Tetrachloroethane	131	15.660	15.660	(1.008)	771600	50.0000	51.7318
	49 1-Chlorohexane	91	15.877	15.877	(1.022)	4924025	50.0000	51.5925
	50 Ethylbenzene	91	15.729	15.729	(1.013)	3320049	50.0000	51.7936
	51 m,p-Xylenes	106	15.877	15.877	(1.022)	2641596	100.000	103.4664
	52 o-Xylene	106	16.625	16.625	(1.070)	1328331	50.0000	51.9182
	53 Styrene	104	16.655	16.655	(1.072)	2288960	50.0000	52.3285
	54 Bromoform	173	17.147	17.147	(1.104)	742557	50.0000	52.9389
	55 Isopropylbenzene	105	17.285	17.285	(0.872)	3089936	50.0000	52.1025
	56 1,1,2,2-Tetrachloroethane	83	17.443	17.443	(0.880)	1246104	50.0000	50.0861
$	57 Bromofluorobenzene	95	17.659	17.659	(0.891)	943462	50.0000	50.1832
	58 1,2,3-Trichloropropane	110	17.709	17.709	(0.893)	306777	50.0000	49.9543
	59 Propylbenzene	91	18.004	18.004	(0.908)	3823980	50.0000	51.6306
	60 Bromobenzene	156	18.004	18.004	(0.908)	945622	50.0000	50.8887
	61 1,3,5-Trimethylbenzene	105	18.299	18.299	(0.923)	2572374	50.0000	51.3508
	62 2-Chlorotoluene	91	18.290	18.290	(0.923)	2552697	50.0000	50.1245
	63 4-Chlorotoluene	91	18.378	18.378	(0.927)	2366433	50.0000	50.4555

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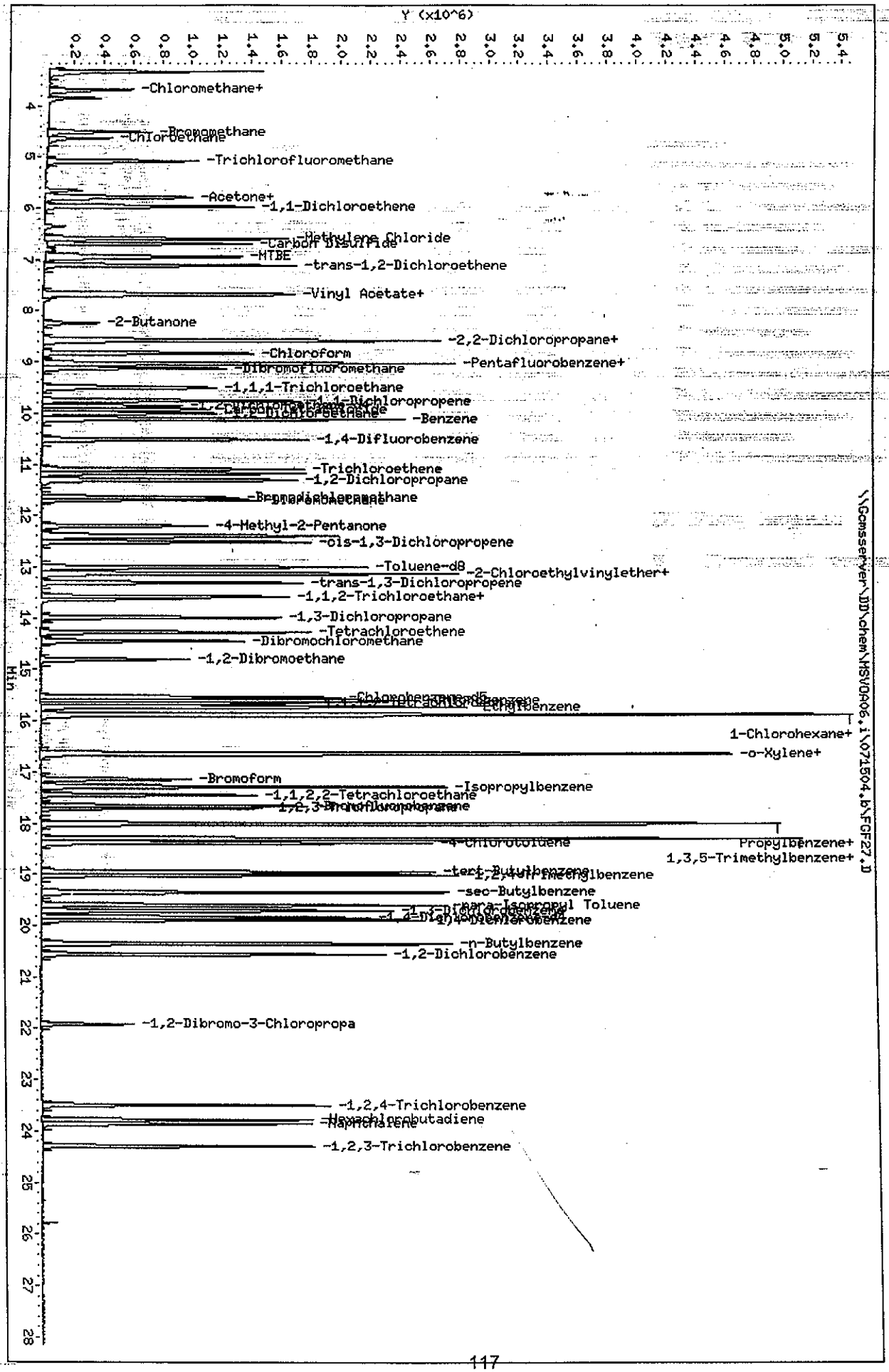
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.949	18.949	(0.956)	2218079	50.0000	52.5568(M) No flag
	65 1,2,4-Trimethylbenzene	105	19.009	19.009	(0.959)	2568318	50.0000	51.2712
	66 sec-Butylbenzene	105	19.343	19.343	(0.976)	3410914	50.0000	52.2680
	67 para-Isopropyl Toluene	119	19.599	19.599	(0.989)	2650143	50.0000	52.4052
	68 1,3-Dichlorobenzene	146	19.708	19.708	(0.994)	1509673	50.0000	50.6140
*	69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	863989	50.0000	
	70 1,4-Dichlorobenzene	146	19.885	19.885	(1.003)	1540062	50.0000	50.0966
	71 n-Butylbenzene	91	20.348	20.348	(1.026)	2552103	50.0000	51.7042
	72 1,2-Dichlorobenzene	146	20.555	20.555	(1.037)	1438137	50.0000	50.3753
	73 1,2-Dibromo-3-Chloropropane	75	21.904	21.904	(1.105)	221964	50.0000	50.4061
	74 1,2,4-Trichlorobenzene	180	23.489	23.489	(1.185)	796146	50.0000	49.9894
	75 Hexachlorobutadiene	225	23.775	23.775	(1.199)	459020	50.0000	51.2878
	76 Naphthalene	128	23.854	23.854	(1.203)	1911221	50.0000	52.5363
	77 1,2,3-Trichlorobenzene	180	24.287	24.287	(1.225)	818457	50.0000	51.4321

QC Flag Legend

M - Compound response manually integrated.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Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32
Y (x10^6)
Min
-Chloromethane+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acetone+
-1,1-Dichloroethene
-Methylene Chloride
-Carbon Disulfide
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-2-Butanone
-2,2-Dichloropropane+
-Chloroform
-Pentafluorobenzene+
-Dibromofluoromethane
-1,1,1-Trichloroethane
-1,1-Dichloropropene
-Benzene
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane
-Bromodichloromethane
-4-Methyl-2-Pentanone
-cis-1,3-Dichloropropene
-Toluene-d8
-2-Chloroethylvinylether+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-Tetrachloroethene
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Ethylbenzene
1-Chlorohexane+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane
-4-Chlorotoluene
Propylbenzene+
1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-sec-Butylbenzene
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF28.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 02:02 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.0125/100,04WS1132B,0.025/100
Misc Info : 62.5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 33 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.321	3.321	(0.368)	1799046	62.5000	58.0369
2 Chloromethane	50	3.685	3.685	(0.408)	1241807	62.5000	56.6292
3 Vinyl Chloride	62	3.843	3.843	(0.426)	483272	62.5000	56.4025
4 Bromomethane	94	4.503	4.503	(0.499)	837313	62.5000	63.4465
5 Chloroethane	64	4.631	4.631	(0.513)	605686	62.5000	57.1758
6 Trichlorofluoromethane	101	5.084	5.084	(0.563)	1503482	62.5000	58.9773
7 Acetone	43	5.655	5.655	(0.627)	608403	62.5000	57.6960
8 Freon 113	101	5.783	5.783	(0.641)	1041932	62.5000	63.8262
9 1,1-Dichloroethene	96	5.960	5.960	(0.661)	908977	62.5000	61.4635
10 Methylene Chloride	84	6.590	6.590	(0.730)	1196989	62.5000	60.2078
11 Carbon Disulfide	76	6.689	6.689	(0.741)	3231201	62.5000	56.9963
12 MTBE	73	6.935	6.935	(0.769)	2826769	62.5000	61.5690
13 trans-1,2-Dichloroethene	96	7.112	7.112	(0.788)	1084628	62.5000	60.8409
14 Vinyl Acetate	43	7.654	7.654	(0.848)	3062302	62.5000	61.4699
15 1,1-Dichloroethane	63	7.684	7.684	(0.852)	2123702	62.5000	61.5743
16 2-Butanone	43	8.235	8.235	(0.913)	996843	62.5000	60.8007

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF28.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.570	8.570	(0.950)	1317068	62.5000	61.8969
	18 cis-1,2-Dichloroethene	96	8.570	8.570	(0.950)	1191652	62.5000	60.9956
	19 Chloroform	83	8.826	8.826	(0.978)	1927131	62.5000	60.9970
*	20 Pentafluorobenzene	168	9.023	9.023	(1.000)	1326352	50.0000	
	21 Bromochloromethane	128	9.023	9.023	(1.000)	685413	62.5000	61.6638
$	22 Dibromofluoromethane	113	9.121	9.121	(1.011)	1014963	50.0000	49.7768
	23 1,1,1-Trichloroethane	97	9.496	9.496	(1.052)	1466449	62.5000	63.0194
	24 1,1-Dichloropropene	75	9.752	9.752	(0.928)	1380912	62.5000	61.9827
$	25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	904958	50.0000	49.3349
	26 Carbon Tetrachloride	117	9.919	9.919	(0.944)	1334028	62.5000	63.8043
	27 1,2-Dichloroethane	62	9.998	9.998	(0.951)	1575779	62.5000	60.9391
	28 Benzene	78	10.106	10.106	(0.962)	3679102	62.5000	60.2608
*	29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	2226580	50.0000	
	30 Trichloroethene	95	11.091	11.091	(1.055)	1133429	62.5000	62.3938(M) no file log
	31 1,2-Dichloropropane	63	11.298	11.298	(1.075)	1231496	62.5000	61.4216
	32 Bromodichloromethane	83	11.643	11.643	(1.108)	1391981	62.5000	61.5163
	33 Dibromomethane	93	11.692	11.692	(1.112)	1033418	62.5000	62.1916
	34 2-Chloroethylvinylether	63	13.130	13.130	(1.249)	358701	62.5000	59.6394
	35 4-Methyl-2-Pentanone	43	12.204	12.204	(1.161)	1834744	62.5000	60.4677
	36 cis-1,3-Dichloropropene	75	12.509	12.509	(1.190)	1716974	62.5000	61.4787
$	37 Toluene-d8	98	13.002	13.002	(1.237)	2207031	50.0000	49.3772
	38 Toluene	92	13.130	13.130	(1.249)	2286369	62.5000	60.3049
	39 trans-1,3-Dichloropropene	75	13.307	13.307	(1.266)	1548065	62.5000	62.3676
	40 1,1,2-Trichloroethane	85	13.573	13.573	(1.291)	664345	62.5000	62.6089
	41 2-Hexanone	43	13.622	13.622	(0.877)	1461334	62.5000	61.8559
	42 1,3-Dichloropropane	76	13.986	13.986	(0.900)	1568911	62.5000	60.8498
	43 Tetrachloroethene	166	14.282	14.282	(0.919)	956460	62.5000	61.5060
	44 Dibromochloromethane	129	14.449	14.449	(0.930)	1281514	62.5000	62.4437
	45 1,2-Dibromoethane	107	14.804	14.804	(1.409)	1234637	62.5000	61.8049
*	46 Chlorobenzene-d5	117	15.533	15.533	(1.000)	1768957	50.0000	
	47 Chlorobenzene	112	15.601	15.601	(1.004)	2631136	62.5000	60.4231
	48 1,1,1,2-Tetrachloroethane	131	15.661	15.661	(1.008)	949504	62.5000	62.4644
	49 1-Chlorohexane	91	15.877	15.877	(1.022)	5855783	62.5000	60.2035
	50 Ethylbenzene	91	15.729	15.729	(1.013)	3994385	62.5000	61.1438
	51 m,p-Xylenes	106	15.877	15.877	(1.022)	3188201	125.000	122.5319
	52 o-Xylene	106	16.626	16.626	(1.070)	1626148	62.5000	62.3655
	53 Styrene	104	16.645	16.645	(1.072)	2758966	62.5000	61.8896
	54 Bromoform	173	17.148	17.148	(1.104)	909858	62.5000	63.6487
	55 Isopropylbenzene	105	17.285	17.285	(0.872)	3677042	62.5000	60.1912
	56 1,1,2,2-Tetrachloroethane	83	17.443	17.443	(0.880)	1535962	62.5000	59.9335
$	57 Bromofluorobenzene	95	17.660	17.660	(0.891)	940349	50.0000	48.5567
	58 1,2,3-Trichloropropane	110	17.699	17.699	(0.893)	386776	62.5000	61.1414
	59 Propylbenzene	91	18.004	18.004	(0.908)	4571748	62.5000	59.9239
	60 Bromobenzene	156	18.004	18.004	(0.908)	1164594	62.5000	60.8421
	61 1,3,5-Trimethylbenzene	105	18.300	18.300	(0.923)	3132938	62.5000	60.7143
	62 2-Chlorotoluene	91	18.290	18.290	(0.923)	3114946	62.5000	59.3783
	63 4-Chlorotoluene	91	18.379	18.379	(0.927)	2892065	62.5000	59.8616

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF28.D
Report Date: 16-Jul-2004 10:04

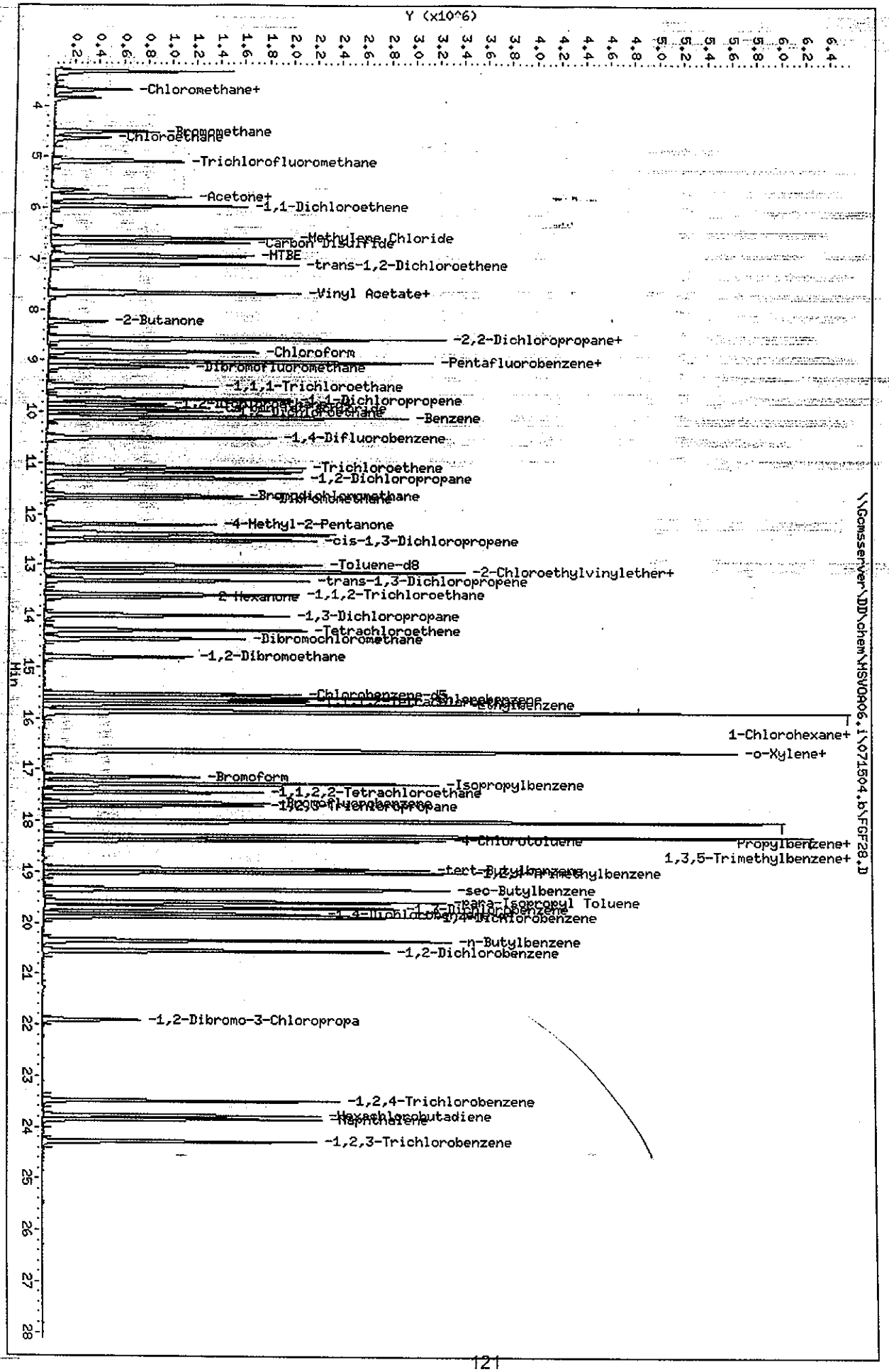
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.950	18.950	(0.956)	2676315	62.5000	61.5624
	65 1,2,4-Trimethylbenzene	105	19.009	19.009	(0.959)	3143493	62.5000	60.9204
	66 sec-Butylbenzene	105	19.344	19.344	(0.976)	4102046	62.5000	61.0227
	67 para-Isopropyl Toluene	119	19.600	19.600	(0.989)	3206642	62.5000	61.5576
	68 1,3-Dichlorobenzene	146	19.708	19.708	(0.994)	1856569	62.5000	60.4261
*	69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	889984	50.0000	
	70 1,4-Dichlorobenzene	146	19.885	19.885	(1.003)	1877975	62.5000	59.3042
	71 n-Butylbenzene	91	20.348	20.348	(1.026)	3044794	62.5000	59.8841
	72 1,2-Dichlorobenzene	146	20.555	20.555	(1.037)	1792024	62.5000	60.9379
	73 1,2-Dibromo-3-Chloropropane	75	21.914	21.914	(1.105)	279886	62.5000	61.7032
	74 1,2,4-Trichlorobenzene	180	23.490	23.490	(1.185)	998870	62.5000	60.8864
	75 Hexachlorobutadiene	225	23.775	23.775	(1.199)	562008	62.5000	60.9609
	76 Naphthalene	128	23.854	23.854	(1.203)	2384913	62.5000	63.6425
	77 1,2,3-Trichlorobenzene	180	24.287	24.287	(1.225)	1008264	62.5000	61.5090

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\071504.b\FGF28.D
Date : 16-JUL-2004 02:02
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.0125/100,04WS11328,0.025/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 02:37 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.00075/5,04WS1132B,0.0015/5
Misc Info : 75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 34 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.324	3.324	(0.369)	2577216	75.0000	80.4561
2 Chloromethane	50	3.679	3.679	(0.408)	1732420	75.0000	76.4516
3 Vinyl Chloride	62	3.836	3.836	(0.426)	642894	75.0000	72.6093
4 Bromomethane	94	4.506	4.506	(0.500)	1152522	75.0000	84.5115
5 Chloroethane	64	4.634	4.634	(0.514)	873806	75.0000	79.8226
6 Trichlorofluoromethane	101	5.077	5.077	(0.563)	2082419	75.0000	79.0500
7 Acetone	43	5.648	5.648	(0.626)	726710	75.0000	66.6902
8 Freon 113	101	5.786	5.786	(0.642)	1382739	75.0000	81.9684
9 1,1-Dichloroethene	96	5.964	5.964	(0.661)	1192996	75.0000	78.0639
10 Methylene Chloride	84	6.584	6.584	(0.730)	1482074	75.0000	72.1405
11 Carbon Disulfide	76	6.682	6.682	(0.741)	4049546	75.0000	69.1250
12 MTBE	73	6.938	6.938	(0.770)	3531148	75.0000	74.4276
13 trans-1,2-Dichloroethene	96	7.106	7.106	(0.788)	1389295	75.0000	75.4146
14 Vinyl Acetate	43	7.648	7.648	(0.848)	3683384	75.0000	71.5497
15 1,1-Dichloroethane	63	7.677	7.677	(0.851)	2616272	75.0000	73.4066
16 2-Butanone	43	8.238	8.238	(0.914)	1232948	75.0000	72.7734

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.563	8.563	(0.950)	1736994	75.0000	78.9961
	18 cis-1,2-Dichloroethene	96	8.573	8.573	(0.951)	1506317	75.0000	74.6126
	19 Chloroform	83	8.819	8.819	(0.978)	2416102	75.0000	74.0046
*	20 Pentafluorobenzene	168	9.016	9.016	(1.000)	1370605	50.0000	
	21 Bromochloromethane	128	9.026	9.026	(1.001)	871233	75.0000	75.8505
$	22 Dibromofluoromethane	113	9.115	9.115	(1.011)	1018625	50.0000	48.3435
	23 1,1,1-Trichloroethane	97	9.489	9.489	(1.052)	1894028	75.0000	78.7663
	24 1,1-Dichloropropene	75	9.745	9.745	(0.928)	1790396	75.0000	80.0798
$	25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.938)	918453	50.0000	49.8944
	26 Carbon Tetrachloride	117	9.922	9.922	(0.945)	1753658	75.0000	83.5794
	27 1,2-Dichloroethane	62	9.991	9.991	(0.951)	1954925	75.0000	75.3356
	28 Benzene	78	10.110	10.110	(0.962)	4558755	75.0000	74.4062
*	29 1,4-Difluorobenzene	114	10.503	10.503	(1.000)	2234442	50.0000	
	30 Trichloroethene	95	11.085	11.085	(1.055)	1455983	75.0000	79.1410(M) MOHLOT
	31 1,2-Dichloropropane	63	11.301	11.301	(1.076)	1523812	75.0000	75.7336
	32 Bromodichloromethane	83	11.636	11.636	(1.108)	1725477	75.0000	75.9864
	33 Dibromomethane	93	11.685	11.685	(1.113)	1283599	75.0000	76.9759
	34 2-Chloroethylvinylether	63	13.123	13.123	(1.249)	460506	75.0000	76.2967
	35 4-Methyl-2-Pentanone	43	12.197	12.197	(1.161)	2263831	75.0000	74.3466
	36 cis-1,3-Dichloropropene	75	12.512	12.512	(1.191)	2109795	75.0000	75.2784
$	37 Toluene-d8	98	12.995	12.995	(1.237)	2201965	50.0000	49.0905
	38 Toluene	92	13.123	13.123	(1.249)	2817229	75.0000	74.0453
	39 trans-1,3-Dichloropropene	75	13.300	13.300	(1.266)	1908318	75.0000	76.6108
	40 1,1,2-Trichloroethane	85	13.576	13.576	(1.293)	821819	75.0000	77.1769
	41 2-Hexanone	43	13.615	13.615	(0.877)	1762493	75.0000	75.1719
	42 1,3-Dichloropropane	76	13.990	13.990	(0.901)	1935647	75.0000	75.6455
	43 Tetrachloroethene	166	14.275	14.275	(0.919)	1264029	75.0000	81.9038
	44 Dibromochloromethane	129	14.443	14.443	(0.930)	1609088	75.0000	79.0026
	45 1,2-Dibromoethane	107	14.807	14.807	(1.410)	1519261	75.0000	75.7854
*	46 Chlorobenzene-d5	117	15.526	15.526	(1.000)	1755581	50.0000	
	47 Chlorobenzene	112	15.595	15.595	(1.004)	3266307	75.0000	75.5811
	48 1,1,1,2-Tetrachloroethane	131	15.654	15.654	(1.008)	1204531	75.0000	79.8454
	49 1-Chlorohexane	91	15.871	15.871	(1.022)	7177247	75.0000	74.3518
	50 Ethylbenzene	91	15.723	15.723	(1.013)	4911284	75.0000	75.7520
	51 m,p-Xylenes	106	15.871	15.871	(1.022)	4000804	150.000	154.9342
	52 o-Xylene	106	16.629	16.629	(1.071)	2006056	75.0000	77.5218
	53 Styrene	104	16.649	16.649	(1.072)	3428627	75.0000	77.4975
	54 Bromoform	173	17.141	17.141	(1.104)	1163567	75.0000	82.0170
	55 Isopropylbenzene	105	17.279	17.279	(0.872)	4589589	75.0000	75.5740
	56 1,1,2,2-Tetrachloroethane	83	17.437	17.437	(0.880)	1906919	75.0000	74.8488
$	57 Bromofluorobenzene	95	17.653	17.653	(0.891)	946893	50.0000	49.1841
	58 1,2,3-Trichloropropane	110	17.702	17.702	(0.893)	472968	75.0000	75.2092
	59 Propylbenzene	91	18.008	18.008	(0.909)	5651271	75.0000	74.5122
	60 Bromobenzene	156	18.008	18.008	(0.909)	1477664	75.0000	77.6550
	61 1,3,5-Trimethylbenzene	105	18.293	18.293	(0.923)	3910268	75.0000	76.2271
	62 2-Chlorotoluene	91	18.293	18.293	(0.923)	3845657	75.0000	73.7414
	63 4-Chlorotoluene	91	18.372	18.372	(0.927)	3586202	75.0000	74.6687

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Report Date: 16-Jul-2004 10:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 tert-Butylbenzene	119	18.943	18.943	(0.956)	3370751	75.0000	77.9953
65 1,2,4-Trimethylbenzene	105	19.002	19.002	(0.959)	3883847	75.0000	75.7140
66 sec-Butylbenzene	105	19.347	19.347	(0.976)	5176542	75.0000	77.4630
67 para-Isopropyl Toluene	119	19.593	19.593	(0.989)	4029938	75.0000	77.8204
68 1,3-Dichlorobenzene	146	19.702	19.702	(0.994)	2288911	75.0000	74.9387
* 69 1,4-Dichlorobenzene-d4	152	19.820	19.820	(1.000)	884746	50.0000	
70 1,4-Dichlorobenzene	146	19.879	19.879	(1.003)	2344502	75.0000	74.4749
71 n-Butylbenzene	91	20.342	20.342	(1.026)	3808139	75.0000	75.3408
72 1,2-Dichlorobenzene	146	20.549	20.549	(1.037)	2210001	75.0000	75.5962
73 1,2-Dibromo-3-Chloropropane	75	21.908	21.908	(1.105)	344343	75.0000	76.3627
74 1,2,4-Trichlorobenzene	180	23.483	23.483	(1.185)	1257591	75.0000	77.1107
75 Hexachlorobutadiene	225	23.769	23.769	(1.199)	738070	75.0000	80.5323
76 Naphthalene	128	23.848	23.848	(1.203)	2965859	75.0000	79.6139
77 1,2,3-Trichlorobenzene	180	24.281	24.281	(1.225)	1293688	75.0000	79.3884

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\071504.b\FGF29.D
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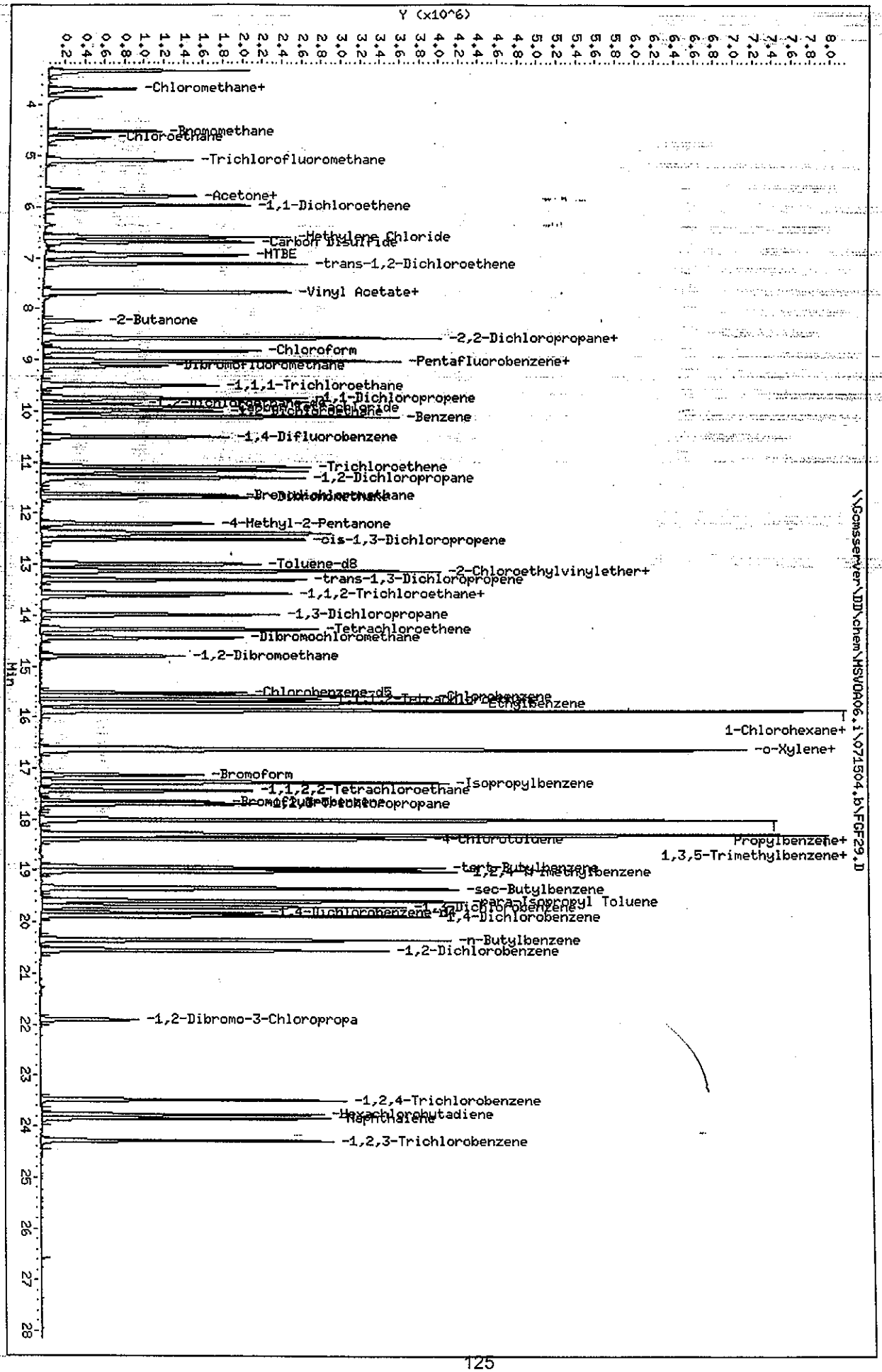
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0,00075/5,04MS1132B,0,0015/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 03:11 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.001/5,04WS1132B,0.002/5
Misc Info : 100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 35 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.320	3.320	(0.368)	3348258	100.000	100.0895
2 Chloromethane	50	3.675	3.675	(0.407)	2310717	100.000	97.6430
3 Vinyl Chloride	62	3.832	3.832	(0.425)	790391	100.000	85.4784
4 Bromomethane	94	4.502	4.502	(0.499)	1494124	100.000	104.9095
5 Chloroethane	64	4.630	4.630	(0.513)	1130085	100.000	98.8516
6 Trichlorofluoromethane	101	5.083	5.083	(0.563)	2705050	100.000	98.3264
7 Acetone	43	5.644	5.644	(0.626)	975362	100.000	85.7094
8 Freon 113	101	5.782	5.782	(0.641)	1885729	100.000	107.0402
9 1,1-Dichloroethene	96	5.959	5.959	(0.661)	1633239	100.000	102.3345
10 Methylene Chloride	84	6.590	6.590	(0.730)	2025644	100.000	94.4135
11 Carbon Disulfide	76	6.678	6.678	(0.740)	5401532	100.000	88.2892
12 MTBE	73	6.934	6.934	(0.769)	4815858	100.000	97.1971
13 trans-1,2-Dichloroethene	96	7.102	7.102	(0.787)	1908436	100.000	99.1973
14 Vinyl Acetate	43	7.653	7.653	(0.848)	4997287	100.000	92.9515
15 1,1-Dichloroethane	63	7.673	7.673	(0.850)	3563128	100.000	95.7293
16 2-Butanone	43	8.234	8.234	(0.913)	1653692	100.000	93.4640

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Report Date: 16-Jul-2004 10:04

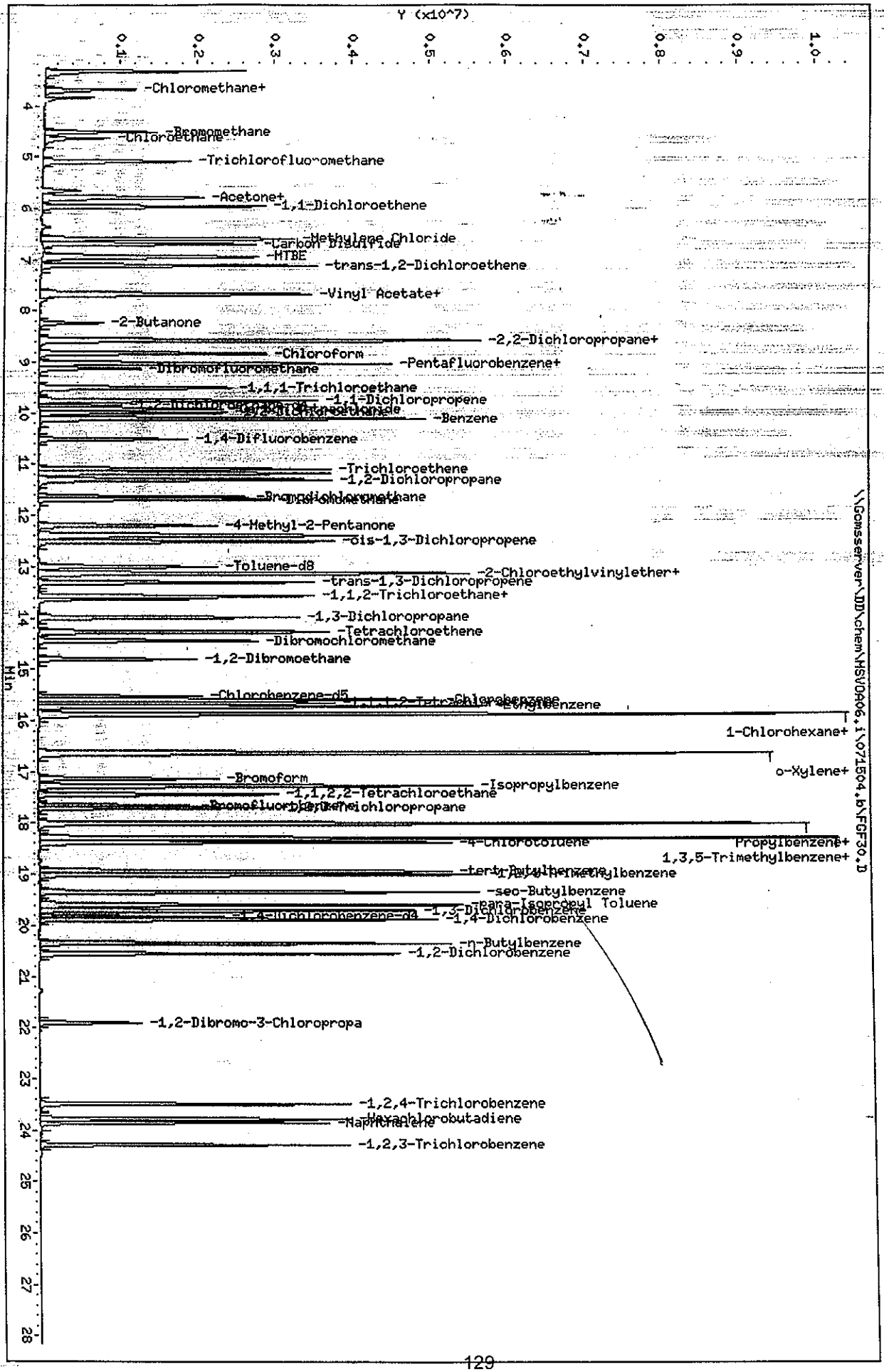
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.569	8.569	(0.950)	2380925	100.000	103.6846
	18 cis-1,2-Dichloroethene	96	8.569	8.569	(0.950)	2090823	100.000	99.1686
	19 Chloroform	83	8.825	8.825	(0.978)	3279530	100.000	96.1871
*	20 Pentafluorobenzene	168	9.022	9.022	(1.000)	1431367	50.0000	
	21 Bromochloromethane	128	9.022	9.022	(1.000)	1202266	100.000	100.2274
$	22 Dibromofluoromethane	113	9.111	9.111	(1.010)	1081024	50.0000	49.1270
	23 1,1,1-Trichloroethane	97	9.495	9.495	(1.052)	2579072	100.000	102.7020
	24 1,1-Dichloropropene	75	9.741	9.741	(0.927)	2439295	100.000	106.5961
$	25 1,2-Dichloroethane-d4	65	9.849	9.849	(0.937)	964618	50.0000	51.1980
	26 Carbon Tetrachloride	117	9.918	9.918	(0.944)	2394367	100.000	111.4931
	27 1,2-Dichloroethane	62	9.987	9.987	(0.950)	2635702	100.000	99.2361
	28 Benzene	78	10.105	10.105	(0.962)	6092353	100.000	97.1518
*	29 1,4-Difluorobenzene	114	10.509	10.509	(1.000)	2287000	50.0000	
	30 Trichloroethene	95	11.090	11.090	(1.055)	1983676	100.000	104.2987(M) MOFHGLW
	31 1,2-Dichloropropane	63	11.297	11.297	(1.075)	2120548	100.000	102.9695
	32 Bromodichloromethane	83	11.642	11.642	(1.108)	2373161	100.000	102.1073
	33 Dibromomethane	93	11.691	11.691	(1.112)	1764925	100.000	103.4081
	34 2-Chloroethylvinylether	63	13.129	13.129	(1.249)	619108	100.000	100.2166
	35 4-Methyl-2-Pentanone	43	12.203	12.203	(1.161)	3056443	100.000	98.0701
	36 cis-1,3-Dichloropropene	75	12.508	12.508	(1.190)	2914574	100.000	101.6034
$	37 Toluene-d8	98	13.001	13.001	(1.237)	2287468	50.0000	49.8247
	38 Toluene	92	13.129	13.129	(1.249)	3851635	100.000	98.9062
	39 trans-1,3-Dichloropropene	75	13.306	13.306	(1.266)	2584750	100.000	101.3820
	40 1,1,2-Trichloroethane	85	13.572	13.572	(1.291)	1127724	100.000	103.4706
	41 2-Hexanone	43	13.621	13.621	(0.877)	2392875	100.000	98.1517
	42 1,3-Dichloropropane	76	13.986	13.986	(0.900)	2654022	100.000	99.7495
	43 Tetrachloroethene	166	14.281	14.281	(0.919)	1719590	100.000	107.1572
	44 Dibromochloromethane	129	14.448	14.448	(0.930)	2235394	100.000	105.5516
	45 1,2-Dibromoethane	107	14.803	14.803	(1.409)	2079858	100.000	101.3654
*	46 Chlorobenzene-d5	117	15.532	15.532	(1.000)	1825457	50.0000	
	47 Chlorobenzene	112	15.601	15.601	(1.004)	4348636	100.000	96.7739
	48 1,1,1,2-Tetrachloroethane	131	15.660	15.660	(1.008)	1646578	100.000	104.9697
	49 1-Chlorohexane	91	15.876	15.876	(1.022)	9228320	100.000	91.9402
	50 Ethylbenzene	91	15.719	15.719	(1.012)	6514214	100.000	96.6296
	51 m,p-Xylenes	106	15.876	15.876	(1.022)	5352536	200.000	199.3466
	52 o-Xylene	106	16.625	16.625	(1.070)	2750532	100.000	102.2226
	53 Styrene	104	16.645	16.645	(1.072)	4610650	100.000	100.2257
	54 Bromoform	173	17.137	17.137	(1.103)	1612450	100.000	109.3070
	55 Isopropylbenzene	105	17.275	17.275	(0.871)	6151854	100.000	96.9201
	56 1,1,2,2-Tetrachloroethane	83	17.442	17.442	(0.880)	2616166	100.000	98.2488
$	57 Bromofluorobenzene	95	17.659	17.659	(0.891)	995443	50.0000	49.4708
	58 1,2,3-Trichloropropane	110	17.698	17.698	(0.893)	646024	100.000	98.2873
	59 Propylbenzene	91	18.004	18.004	(0.908)	7367386	100.000	92.9403
	60 Bromobenzene	156	18.004	18.004	(0.908)	2026824	100.000	101.9105
	61 1,3,5-Trimethylbenzene	105	18.299	18.299	(0.923)	5227018	100.000	97.4914
	62 2-Chlorotoluene	91	18.289	18.289	(0.923)	5195364	100.000	95.3160
	63 4-Chlorotoluene	91	18.378	18.378	(0.927)	4700742	100.000	93.6439

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.949	18.949	(0.956)	4597801	100.000	101.7891
	65 1,2,4-Trimethylbenzene	105	19.008	19.008	(0.959)	5141594	100.000	95.9006
	66 sec-Butylbenzene	105	19.343	19.343	(0.976)	6753424	100.000	96.6914
	67 para-Isopropyl Toluene	119	19.589	19.589	(0.988)	5299470	100.000	97.9122
	68 1,3-Dichlorobenzene	146	19.707	19.707	(0.994)	3116455	100.000	97.6219
*	69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	924718	50.0000	
	70 1,4-Dichlorobenzene	146	19.885	19.885	(1.003)	3188845	100.000	96.9175
	71 n-Butylbenzene	91	20.348	20.348	(1.026)	4959772	100.000	93.8833
	72 1,2-Dichlorobenzene	146	20.554	20.554	(1.037)	2984520	100.000	97.6767
	73 1,2-Dibromo-3-Chloropropane	75	21.904	21.904	(1.105)	471031	100.000	99.9422
	74 1,2,4-Trichlorobenzene	180	23.489	23.489	(1.185)	1678744	100.000	98.4848
	75 Hexachlorobutadiene	225	23.775	23.775	(1.199)	1022353	100.000	106.7291
	76 Naphthalene	128	23.853	23.853	(1.203)	3949294	100.000	101.4301
	77 1,2,3-Trichlorobenzene	180	24.277	24.277	(1.225)	1756095	100.000	103.1063

QC Flag Legend

M - Compound response manually integrated.


Data File: \\Comsserver\DD\chem\MSVOA06.i\071504.b\FGF30.D
Date : 16-JUL-2004 03:11
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.001/5,04WS11323,0.002/5
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32
Y (x10^7)
Min
-Chloromethane+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acetone+
-1,1-Dichloroethene
-Carbon Disulfide
-Methylene Chloride
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-2-Butanone
-2,2-Dichloropropane+
-Chloroform
-Pentafluorobenzene+
-Dibromofluoromethane
-1,1,1-Trichloroethane
-1,1-Dichloropropene
-Benzene
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane
-Bromodichloromethane
-4-Methyl-2-Pentanone
-cis-1,3-Dichloropropene
-Toluene-d8
-2-Chloroethylvinylether+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-Tetrachloroethene
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Chlorobenzene
-Ethylbenzene
1-Chlorohexane+
o-Xylene+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane
-1,2,3-Trichloropropane
-4-Chlorotoluene
Propylbenzene+
1,3,5-Trimethylbenzene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-trans-Isopropyl Toluene
-1,4-Dichlorobenzene-d4
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\Comsserver\DD\chem\MSVOA06.i\071504.b\FGF30.D

8260 S ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB
Seqnum : 454284216031 Filename : fgf31 Injected : 16-JUL-2004 03:46
Calnum : 454284216002 Caldate : 15-JUL-2004 Caltype : SOIL
Standards: 04WS1304A (5000X), 04WS1255 (1000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Freon 12	50.00000	42.88800	ug/L	-14	30
Chloromethane	50.00000	51.40060	ug/L	3	30
Vinyl Chloride	50.00000	52.57370	ug/L	5	20
Bromomethane	50.00000	53.19530	ug/L	6	30
Chloroethane	50.00000	52.77740	ug/L	6	30
Trichlorofluoromethane	50.00000	56.91360	ug/L	14	30
Dibromofluoromethane	50.00000	49.49890	ug/L	-1	30
1,2-Dichloroethane-d4	50.00000	49.18370	ug/L	-2	30
Toluene-d8	50.00000	48.87250	ug/L	-2	30
Bromofluorobenzene	50.00000	51.54410	ug/L	3	30

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1289103	0.64	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2173973	2.35	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1711419	-1.40	15.53	15.52	-0.01
1,4-Dichlorobenzene-d4	863989	784241	-9.23	19.83	19.83	0.00

MJ 7/16/04

AU 07/16/04

MJ 7/16/04

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF31.D
Report Date: 16-Jul-2004 10:07

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF31.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 03:46 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICV,04WS1304A,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:06 target Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.322	3.321	(0.368)	1292120	42.8880	42.8880
2 Chloromethane	50	3.676	3.675	(0.407)	1095493	51.4006	51.4005
3 Vinyl Chloride	62	3.844	3.833	(0.426)	437814	52.5737	52.5736
4 Bromomethane	94	4.503	4.502	(0.499)	682309	53.1953	53.1953
5 Chloroethane	64	4.631	4.630	(0.513)	543390	52.7774	52.7774
6 Trichlorofluoromethane	101	5.075	5.083	(0.562)	1410125	56.9136	56.9136
7 Acetone	43	5.656	5.645	(0.627)	21368	2.08496	2.0849
8 Freon 113	101	5.784	5.783	(0.641)	1872	0.11801	0.1180(a)
9 1,1-Dichloroethene	96	5.961	5.960	(0.661)	3651	0.25407	0.2540(a)
10 Methylene Chloride	84	6.581	6.590	(0.729)	11935	0.61771	0.6177
11 Carbon Disulfide	76	6.690	6.679	(0.741)	20277	0.36801	0.3680(a)
13 trans-1,2-Dichloroethene	96	7.113	7.102	(0.788)	2949	0.17024	0.1702(a)
16 2-Butanone	43	8.246	8.234	(0.914)	11089	0.69594	0.6959
18 cis-1,2-Dichloroethene	96	8.571	8.570	(0.950)	2062	0.10860	0.1086(a)
* 20 Pentafluorobenzene	168	9.024	9.023	(1.000)	1289103	50.0000	
$ 22 Dibromofluoromethane	113	9.112	9.111	(1.010)	980950	49.4989	49.4989

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF31.D
Report Date: 16-Jul-2004 10:07

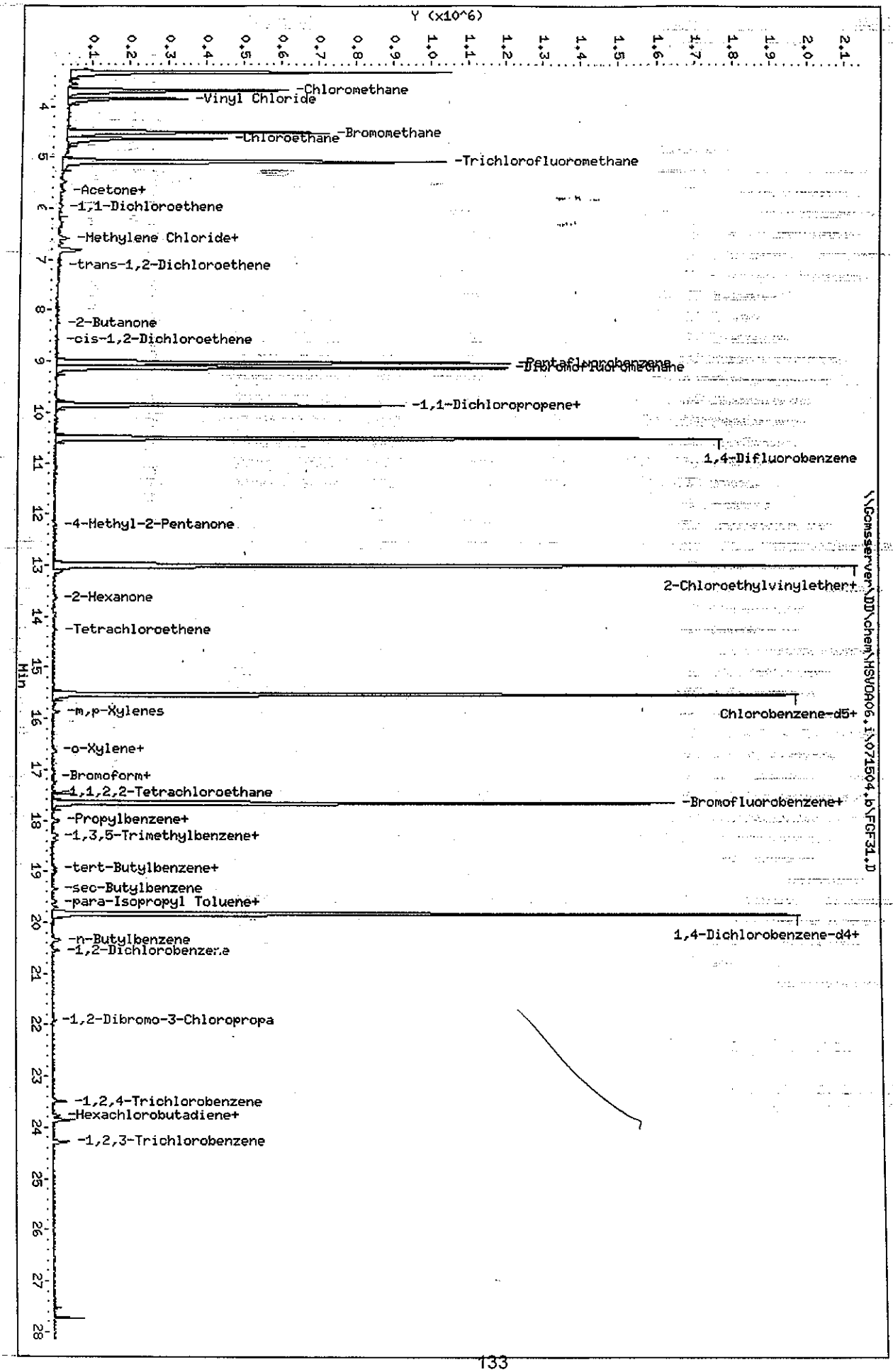
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	24	1,1-Dichloropropene	75	9.743	9.742	(0.927)	2564	0.11789	0.1178(a)
$	25	1,2-Dichloroethane-d4	65	9.851	9.850	(0.937)	880867	49.1837	49.1836
*	29	1,4-Difluorobenzene	114	10.511	10.510	(1.000)	2173973	50.0000	
	34	2-Chloroethylvinylether	63	13.140	13.129	(1.250)	1515	0.25808	0.2580(a)
	35	4-Methyl-2-Pentanone	43	12.205	12.204	(1.161)	7585	0.25603	0.2560(a)
$	37	Toluene-d8	98	12.993	13.001	(1.236)	2132859	48.8725	48.8724
	38	Toluene	92	13.130	13.129	(1.249)	7424	0.20056	0.2005(a)
	41	2-Hexanone	43	13.642	13.622	(0.879)	10975	0.48020	0.4801(a)
	43	Tetrachloroethene	166	14.273	14.282	(0.919)	2214	0.14717	0.1471(a)
*	46	Chlorobenzene-d5	117	15.523	15.532	(1.000)	1711419	50.0000	
	47	Chlorobenzene	112	15.592	15.601	(1.004)	6039	0.14335	0.1433(a)
	50	Ethylbenzene	91	15.720	15.719	(1.013)	8274	0.13092	0.1309(a)
	51	m,p-Xylenes	106	15.868	15.877	(1.022)	6082	0.24161	0.2416(a)
	52	o-Xylene	106	16.617	16.625	(1.070)	2809	0.11136	0.1113(a)
	53	Styrene	104	16.656	16.645	(1.073)	5965	0.13831	0.1383(a)
	54	Bromoform	173	17.148	17.138	(1.105)	1441	0.10420	0.1041(a)
	55	Isopropylbenzene	105	17.276	17.274	(0.871)	7354	0.13661	0.1366(a)
	56	1,1,2,2-Tetrachloroethane	83	17.444	17.443	(0.880)	3594	0.15916	0.1591(a)
$	57	Bromofluorobenzene	95	17.651	17.659	(0.890)	879603	51.5441	51.5441
	58	1,2,3-Trichloropropane	110	17.690	17.699	(0.892)	1431	0.25672	0.2567(a)
	59	Propylbenzene	91	17.995	18.004	(0.908)	14172	0.21082	0.2108(a)
	60	Bromobenzene	156	18.015	18.004	(0.909)	3671	0.21766	0.2176(a)
	61	1,3,5-Trimethylbenzene	105	18.310	18.300	(0.924)	6629	0.14579	0.1457(a)
	62	2-Chlorotoluene	91	18.291	18.290	(0.923)	8443	0.18265	0.1826(a)
	63	4-Chlorotoluene	91	18.379	18.378	(0.927)	11069	0.26001	0.2600(a)
	64	tert-Butylbenzene	119	18.941	18.950	(0.955)	6841	0.17859	0.1785(a)
	65	1,2,4-Trimethylbenzene	105	19.000	19.009	(0.958)	10509	0.23114	0.2311(a)
	66	sec-Butylbenzene	105	19.335	19.344	(0.975)	14471	0.24431	0.2443(a)
	67	para-Isopropyl Toluene	119	19.591	19.590	(0.988)	12291	0.26778	0.2677(a)
	68	1,3-Dichlorobenzene	146	19.699	19.708	(0.994)	9621	0.35536	0.3553(a)
*	69	1,4-Dichlorobenzene-d4	152	19.827	19.826	(1.000)	784241	50.0000	
	70	1,4-Dichlorobenzene	146	19.876	19.885	(1.002)	11347	0.40667	0.4066(a)
	71	n-Butylbenzene	91	20.339	20.348	(1.026)	21308	0.47559	0.4755(a)
	72	1,2-Dichlorobenzene	146	20.546	20.555	(1.036)	8717	0.33642	0.3364(a)
	73	1,2-Dibromo-3-Chloropropane	75	21.895	21.904	(1.104)	1255	0.31420	0.3141(a)
	74	1,2,4-Trichlorobenzene	180	23.491	23.490	(1.185)	16642	1.15126	1.1512
	75	Hexachlorobutadiene	225	23.766	23.775	(1.199)	4726	0.58183	0.5818
	76	Naphthalene	128	23.855	23.854	(1.203)	61413	1.85983	1.8598
	77	1,2,3-Trichlorobenzene	180	24.278	24.277	(1.225)	17538	1.21420	1.2141

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\Gcmsserver\DD\chem\HSVOA06.i\071504.b\FCF31.D
Date : 16-JUL-2004 03:46
Client ID: DYNA P&T
Sample Info: ICV,04WS13044,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32



82605 ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB
Seqnum : 454284216032 Filename : fgf32 Injected : 16-JUL-2004 04:21
Caltype : SOIL

Standards: 04WS1032D (5000X), 04WS1255 (1000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	454284216002	15-JUL-2004	50.00000	44.07880	ug/L	-12	40	
Freon 113	454284216002	15-JUL-2004	50.00000	58.00470	ug/L	16	30	
1,1-Dichloroethene	454284216002	15-JUL-2004	50.00000	50.26440	ug/L	1	20	
Methylene Chloride	454284216002	15-JUL-2004	50.00000	49.74400	ug/L	-1	30	
Carbon Disulfide	454284216002	15-JUL-2004	50.00000	46.53060	ug/L	-7	30	
MTBE	454284216002	15-JUL-2004	50.00000	55.12340	ug/L	10	30	
trans-1,2-Dichloroethene	454284216002	15-JUL-2004	50.00000	50.69130	ug/L	1	30	
Vinyl Acetate	454284216002	15-JUL-2004	50.00000	51.46700	ug/L	3	40	
1,1-Dichloroethane	454284216002	15-JUL-2004	50.00000	50.87750	ug/L	2	30	
2-Butanone	454284216002	15-JUL-2004	50.00000	47.53560	ug/L	-5	40	
2,2-Dichloropropane	454284216002	15-JUL-2004	50.00000	54.04750	ug/L	8	30	
cis-1,2-Dichloroethene	454284216002	15-JUL-2004	50.00000	51.17650	ug/L	2	30	
Chloroform	454284216002	15-JUL-2004	50.00000	50.61250	ug/L	1	20	
Bromochloromethane	454284216002	15-JUL-2004	50.00000	51.22050	ug/L	2	30	
1,1,1-Trichloroethane	454284216002	15-JUL-2004	50.00000	54.16150	ug/L	8	30	
1,1-Dichloropropene	454284216002	15-JUL-2004	50.00000	54.04810	ug/L	8	30	
Carbon Tetrachloride	454284216002	15-JUL-2004	50.00000	57.60700	ug/L	15	30	
1,2-Dichloroethane	454284216002	15-JUL-2004	50.00000	52.44180	ug/L	5	30	
Benzene	454284216002	15-JUL-2004	50.00000	53.54930	ug/L	7	30	
Trichloroethene	454284216002	15-JUL-2004	50.00000	50.60650	ug/L	1	30	
1,2-Dichloropropane	454284216002	15-JUL-2004	50.00000	51.36140	ug/L	3	20	
Bromodichloromethane	454284216002	15-JUL-2004	50.00000	57.29990	ug/L	15	30	
Dibromomethane	454284216002	15-JUL-2004	50.00000	52.84400	ug/L	6	30	
2-Chloroethylvinylether	453472922001	24-NOV-2003	50.00000	54.03690	ug/L	8	40	! (NOT USED) NT /NJ
4-Methyl-2-Pentanone	454284216002	15-JUL-2004	50.00000	49.17190	ug/L	-2	40	
cis-1,3-Dichloropropene	454284216002	15-JUL-2004	50.00000	52.91370	ug/L	6	30	
Toluene	454284216002	15-JUL-2004	50.00000	53.43480	ug/L	7	20	
trans-1,3-Dichloropropene	454284216002	15-JUL-2004	50.00000	50.50110	ug/L	1	30	
1,1,2-Trichloroethane	454284216002	15-JUL-2004	50.00000	52.94790	ug/L	6	30	
2-Hexanone	454284216002	15-JUL-2004	50.00000	48.75190	ug/L	-2	40	
1,3-Dichloropropane	454284216002	15-JUL-2004	50.00000	52.21420	ug/L	4	30	
Tetrachloroethene	454284216002	15-JUL-2004	50.00000	54.33470	ug/L	9	30	
Dibromochloromethane	454284216002	15-JUL-2004	50.00000	51.55190	ug/L	3	30	
1,2-Dibromoethane	454284216002	15-JUL-2004	50.00000	53.48800	ug/L	7	30	
Chlorobenzene	454284216002	15-JUL-2004	50.00000	50.49870	ug/L	1	30	
1,1,1,2-Tetrachloroethane	454284216002	15-JUL-2004	50.00000	52.25390	ug/L	5	30	
Ethylbenzene	454284216002	15-JUL-2004	50.00000	52.97010	ug/L	6	20	
m,p-Xylenes	454284216002	15-JUL-2004	100.0000	104.6006	ug/L	5	30	
o-Xylene	454284216002	15-JUL-2004	50.00000	52.86860	ug/L	6	30	
Styrene	454284216002	15-JUL-2004	50.00000	53.70610	ug/L	7	30	
Bromoform	454284216002	15-JUL-2004	50.00000	53.67550	ug/L	7	30	
Isopropylbenzene	454284216002	15-JUL-2004	50.00000	47.02620	ug/L	-6	30	
1,1,2,2-Tetrachloroethane	454284216002	15-JUL-2004	50.00000	49.53570	ug/L	-1	30	
1,2,3-Trichloropropane	454284216002	15-JUL-2004	50.00000	49.62080	ug/L	-1	30	
Propylbenzene	454284216002	15-JUL-2004	50.00000	50.84610	ug/L	2	30	
Bromobenzene	454284216002	15-JUL-2004	50.00000	51.34630	ug/L	3	30	
1,3,5-Trimethylbenzene	454284216002	15-JUL-2004	50.00000	52.33650	ug/L	5	30	

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Page 1 of 2

AK 07/16/04

8260 5 ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB
Seqnum : 454284216032 Filename : fgf32 Injected : 16-JUL-2004 04:21
Caltype : SOIL

Standards: 04WS1032D (5000X), 04WS1255 (1000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max	Flags
2-Chlorotoluene	454284216002	15-JUL-2004	50.00000	50.47540	ug/L	1	30	
4-Chlorotoluene	454284216002	15-JUL-2004	50.00000	51.23060	ug/L	2	30	
tert-Butylbenzene	454284216002	15-JUL-2004	50.00000	53.95090	ug/L	8	30	
1,2,4-Trimethylbenzene	454284216002	15-JUL-2004	50.00000	52.42190	ug/L	5	30	
sec-Butylbenzene	454284216002	15-JUL-2004	50.00000	53.12120	ug/L	6	30	
para-Isopropyl Toluene	454284216002	15-JUL-2004	50.00000	51.72850	ug/L	3	30	
1,3-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.20300	ug/L	2	30	
1,4-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.25420	ug/L	3	30	
n-Butylbenzene	454284216002	15-JUL-2004	50.00000	54.13300	ug/L	8	30	
1,2-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.07620	ug/L	2	30	
1,2-Dibromo-3-Chloropropane	454284216002	15-JUL-2004	50.00000	51.67830	ug/L	3	30	
1,2,4-Trichlorobenzene	454284216002	15-JUL-2004	50.00000	54.32950	ug/L	9	30	
Hexachlorobutadiene	454284216002	15-JUL-2004	50.00000	54.79390	ug/L	10	30	
Naphthalene	454284216002	15-JUL-2004	50.00000	56.70500	ug/L	13	30	
1,2,3-Trichlorobenzene	454284216002	15-JUL-2004	50.00000	55.73370	ug/L	11	30	
Dibromofluoromethane	454284216002	15-JUL-2004	50.00000	48.83090	ug/L	-2	30	(NOT USED)
1,2-Dichloroethane-d4	454284216002	15-JUL-2004	50.00000	49.96750	ug/L	0	30	(NOT USED)
Toluene-d8	454284216002	15-JUL-2004	50.00000	50.67480	ug/L	1	30	(NOT USED)
Bromofluorobenzene	454284216002	15-JUL-2004	50.00000	48.14140	ug/L	-4	30	(NOT USED)

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1352725	5.61	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2194753	3.33	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1773604	2.18	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	901108	4.30	19.83	19.83	0.00

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Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF32.D
Report Date: 16-Jul-2004 10:07

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF32.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 04:21 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICV,04WS1032D,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:06 target Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.323	3.321	(0.369)	3725	0.11784	0.1178(a)
2 Chloromethane	50	3.657	3.675	(0.406)	62621	2.80002	2.8000
3 Vinyl Chloride	62	3.845	3.833	(0.427)	1020	0.11676	0.1167(a)
4 Bromomethane	94	4.494	4.502	(0.499)	299901	22.2817	22.2816
7 Acetone	43	5.647	5.645	(0.626)	474051	44.0788	44.0788
8 Freon 113	101	5.775	5.783	(0.641)	965726	58.0047	58.0046
9 1,1-Dichloroethene	96	5.962	5.960	(0.661)	758134	50.2644	50.2643
10 Methylene Chloride	84	6.582	6.590	(0.730)	1008622	49.7440	49.7440
11 Carbon Disulfide	76	6.681	6.679	(0.741)	2690336	46.5306	46.5305
12 MTBE	73	6.937	6.935	(0.770)	2581157	55.1234	55.1233
13 trans-1,2-Dichloroethene	96	7.104	7.102	(0.788)	921656	50.6913	50.6912
14 Vinyl Acetate	43	7.646	7.654	(0.848)	2614959	51.4670	51.4669
15 1,1-Dichloroethane	63	7.675	7.673	(0.851)	1789661	50.8775	50.8775
16 2-Butanone	43	8.237	8.234	(0.914)	794854	47.5356	47.5355
17 2,2-Dichloropropane	77	8.562	8.570	(0.950)	1172912	54.0475	54.0475
18 cis-1,2-Dichloroethene	96	8.572	8.570	(0.951)	1019698	51.1765	51.1764

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF32.D
Report Date: 16-Jul-2004 10:07

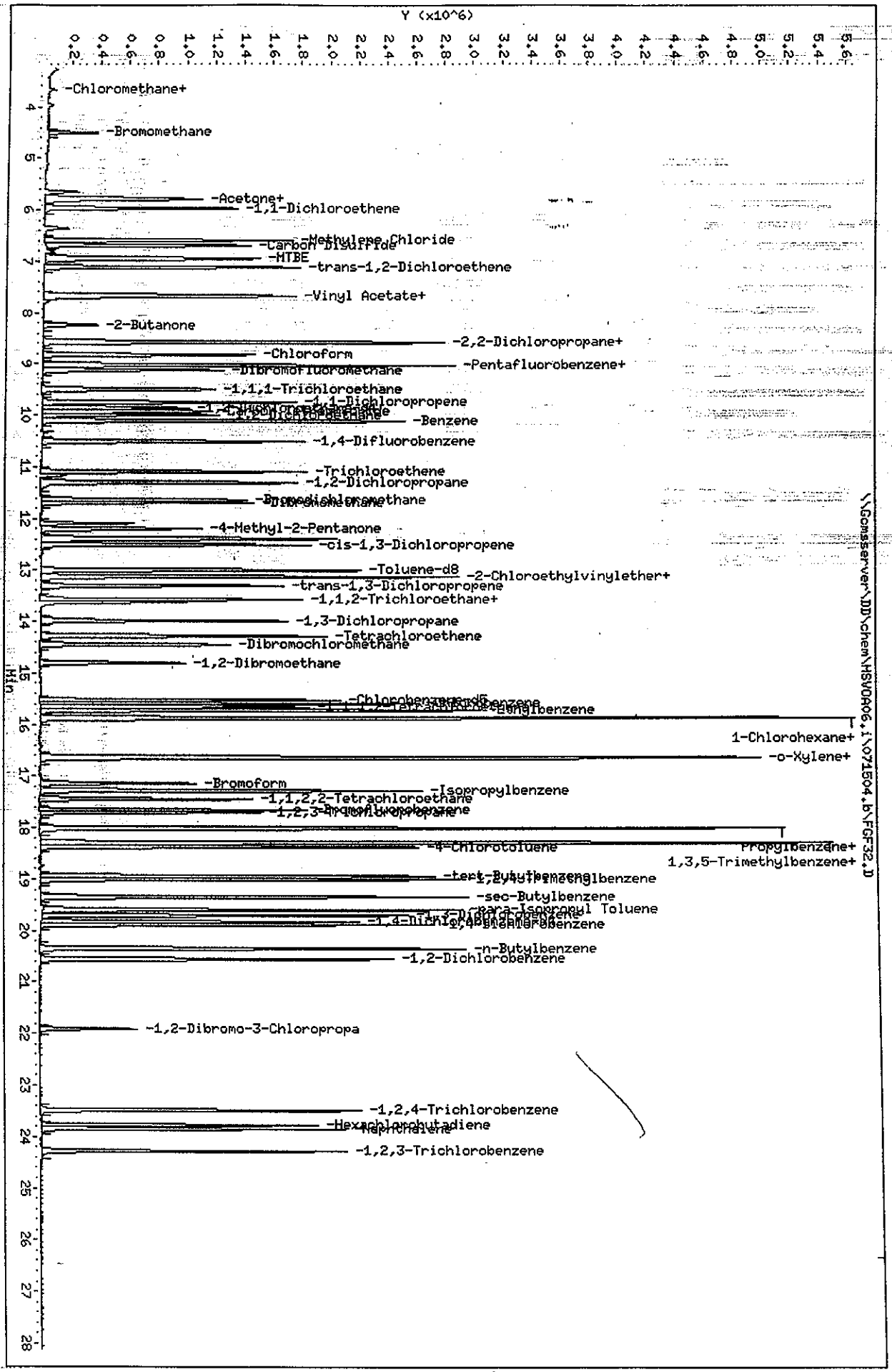
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	19 Chloroform	83	8.818	8.826	(0.978)	1630837	50.6125	50.6124
*	20 Pentafluorobenzene	168	9.015	9.023	(1.000)	1352725	50.0000	
	21 Bromochloromethane	128	9.025	9.023	(1.001)	580652	51.2205	51.2204
$	22 Dibromofluoromethane	113	9.113	9.111	(1.011)	1015471	48.8309	48.8308
	23 1,1,1-Trichloroethane	97	9.497	9.495	(1.054)	1285386	54.1615	54.1615
	24 1,1-Dichloropropene	75	9.744	9.742	(0.927)	1186923	54.0481	54.0480
$	25 1,2-Dichloroethane-d4	65	9.852	9.850	(0.937)	903460	49.9675	49.9675
	26 Carbon Tetrachloride	117	9.921	9.919	(0.944)	1187237	57.6070	57.6070
	27 1,2-Dichloroethane	62	9.990	9.988	(0.950)	1336669	52.4418	52.4418
	28 Benzene	78	10.108	10.106	(0.962)	3222608	53.5493	53.5492
*	29 1,4-Difluorobenzene	114	10.512	10.510	(1.000)	2194753	50.0000	
	30 Trichloroethene	95	11.083	11.091	(1.054)	923672	50.6065	50.6065
	31 1,2-Dichloropropane	63	11.300	11.298	(1.075)	1015070	51.3614	51.3614
	32 Bromodichloromethane	83	11.634	11.642	(1.107)	1278038	57.2999	57.2999
	33 Dibromomethane	93	11.684	11.692	(1.111)	865539	52.8440	52.8439
	34 2-Chloroethylvinylether	63	13.131	13.129	(1.249)	320359	54.0369	54.0369
	35 4-Methyl-2-Pentanone	43	12.196	12.204	(1.160)	1470671	49.1719	49.1718
	36 cis-1,3-Dichloropropene	75	12.511	12.509	(1.190)	1456646	52.9137	52.9136
$	37 Toluene-d8	98	12.993	13.001	(1.236)	2232654	50.6748	50.6748
	38 Toluene	92	13.131	13.129	(1.249)	1996943	53.4348	53.4348
	39 trans-1,3-Dichloropropene	75	13.299	13.307	(1.265)	1235599	50.5011	50.5010
	40 1,1,2-Trichloroethane	85	13.574	13.573	(1.291)	553801	52.9479	52.9479
	41 2-Hexanone	43	13.624	13.622	(0.878)	1154779	48.7519	48.7519
	42 1,3-Dichloropropane	76	13.988	13.986	(0.901)	1349792	52.2142	52.2141
	43 Tetrachloroethene	166	14.274	14.282	(0.919)	847161	54.3347	54.3347
	44 Dibromochloromethane	129	14.451	14.449	(0.931)	1060763	51.5519	51.5518
	45 1,2-Dibromoethane	107	14.805	14.804	(1.408)	1053220	53.4880	53.4879
*	46 Chlorobenzene-d5	117	15.524	15.532	(1.000)	1773604	50.0000	
	47 Chlorobenzene	112	15.593	15.601	(1.004)	2204751	50.4987	50.4986
	48 1,1,1,2-Tetrachloroethane	131	15.652	15.660	(1.008)	796383	52.2539	52.2538
	49 1-Chlorohexane	91	15.869	15.877	(1.022)	5073646	52.0257	52.0256
	50 Ethylbenzene	91	15.721	15.719	(1.013)	3469506	52.9701	52.9700
	51 m,p-Xylenes	106	15.869	15.877	(1.022)	2728789	104.601	104.6005
	52 o-Xylene	106	16.627	16.625	(1.071)	1382140	52.8686	52.8685
	53 Styrene	104	16.647	16.645	(1.072)	2400445	53.7061	53.7061
	54 Bromoform	173	17.139	17.138	(1.104)	769306	53.6755	53.6755
	55 Isopropylbenzene	105	17.277	17.274	(0.871)	2908704	47.0262	47.0261
	56 1,1,2,2-Tetrachloroethane	83	17.445	17.443	(0.880)	1285358	49.5357	49.5357
$	57 Bromofluorobenzene	95	17.652	17.659	(0.890)	943959	48.1414	48.1413
	58 1,2,3-Trichloropropane	110	17.701	17.699	(0.893)	317820	49.6208	49.6207
	59 Propylbenzene	91	18.006	18.004	(0.908)	3927666	50.8461	50.8460
	60 Bromobenzene	156	18.006	18.004	(0.908)	995116	51.3463	51.3463
	61 1,3,5-Trimethylbenzene	105	18.302	18.300	(0.923)	2734389	52.3365	52.3365
	62 2-Chlorotoluene	91	18.292	18.290	(0.923)	2681006	50.4754	50.4754
	63 4-Chlorotoluene	91	18.380	18.378	(0.927)	2506018	51.2306	51.2306
	64 tert-Butylbenzene	119	18.942	18.950	(0.955)	2374736	53.9509	53.9509
	65 1,2,4-Trimethylbenzene	105	19.011	19.009	(0.959)	2738780	52.4219	52.4219

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF32.D
Report Date: 16-Jul-2004 10:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
66 sec-Butylbenzene	105	19.345	19.344	(0.976)	3615527	53.1212	53.1212
67 para-Isopropyl Toluene	119	19.592	19.590	(0.988)	2728305	51.7285	51.7284
68 1,3-Dichlorobenzene	146	19.700	19.708	(0.994)	1592857	51.2030	51.2030
* 69 1,4-Dichlorobenzene-d4	152	19.828	19.826	(1.000)	901108	50.0000	
70 1,4-Dichlorobenzene	146	19.877	19.885	(1.002)	1643343	51.2542	51.2542
71 n-Butylbenzene	91	20.340	20.348	(1.026)	2786783	54.1330	54.1330
72 1,2-Dichlorobenzene	146	20.547	20.555	(1.036)	1520789	51.0762	51.0761
73 1,2-Dibromo-3-Chloropropane	75	21.906	21.904	(1.105)	237343	51.6783	51.6783
74 1,2,4-Trichlorobenzene	180	23.482	23.490	(1.184)	902441	54.3295	54.3295
75 Hexachlorobutadiene	225	23.777	23.775	(1.199)	511467	54.7939	54.7939
76 Naphthalene	128	23.846	23.854	(1.203)	2151501	56.7050	56.7050
77 1,2,3-Trichlorobenzene	180	24.279	24.277	(1.224)	925013	55.7337	55.7336

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).


Data File: \\Gcmsserver\DD\chem\HSVOA06.i\071504.b\FGF32.D
Date : 16-JUL-2004 04:21
Client ID: DYNA P&T
Sample Info: ICV,04WS1032D,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32
Y (x10^6)
Min
-Chloromethane+
-Bromomethane
-Acetone+
-1,1-Dichloroethene
-Methylene Chloride
-Carbon Disulfide
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-2-Butanone
-2,2-Dichloropropane+
-Chloroform
-Pentafluorobenzene+
-Dibromofluoromethane
-1,1,1-Trichloroethane
-1,1-Dichloropropene
-Carbon Tetrachloride
-Benzene
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane
-Bromodichloromethane
-Dibromomethane
-4-Methyl-2-Pentanone
-cis-1,3-Dichloropropene
-Toluene-d8
-2-Chloroethylvinylether+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-Tetrachloroethene
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Ethylbenzene
1-Chlorohexane+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane
-1,2,3-Trichloropropane
-4-Chlorotoluene
Propylbenzene+
1,3,5-Trimethylbenzene+
-tert-Butylbenzene
1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,4-Dichlorobenzene
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\Gcmsserver\DD\chem\HSVOA06.i\071504.b\FGF32.D

Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 40PPB IDF : 1.0
Seqnum : 454314501002 Filename : fh502 Injected : 05-AUG-2004 09:57
Calnum : 454284216002 Caldate : 15-JUL-2004 Caltype : SOIL
Standards: 04SS250 (12500X), 04WS1422A (6250X), 04WS1255 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	1.1686	1.3583	40.00000	46.49460	ug/L	16	30	0.0500	
Chloromethane	0.8267	0.8771	40.00000	42.44000	ug/L	6	30	0.1000	
Vinyl Chloride	0.3230	0.3204	40.00000	39.68380	ug/L	-1	20	0.0500	
Bromomethane	0.4975	0.4684	40.00000	37.65830	ug/L	-6	30	0.0500	
Chloroethane	0.3993	0.3928	40.00000	39.34720	ug/L	-2	30	0.0500	
Trichlorofluoromethane	0.9610	1.0801	40.00000	44.95870	ug/L	12	30	0.0500	
Acetone	0.3975	0.3372	40.00000	33.92590	ug/L	-15	40	0.0500	
Freon 113	0.6154	0.6039	40.00000	39.25000	ug/L	-2	30	0.0500	
1,1-Dichloroethene	0.5575	0.5465	40.00000	39.21260	ug/L	-2	20	0.0500	
Methylene Chloride	0.7495	0.6753	40.00000	36.04320	ug/L	-10	30	0.0500	
Carbon Disulfide	2.1371	1.9155	40.00000	35.85160	ug/L	-10	30	0.0500	
MTBE	1.7308	1.3453	40.00000	31.09080	ug/L	-22	30	0.0500	!c-
trans-1,2-Dichloroethene	0.6720	0.6322	40.00000	37.62810	ug/L	-6	30	0.0500	
Vinyl Acetate	1.8780	1.5241	40.00000	32.46260	ug/L	-19	40	0.0500	
1,1-Dichloroethane	1.3002	1.1260	40.00000	34.64050	ug/L	-13	30	0.1000	
2-Butanone	0.6181	0.4639	40.00000	30.02560	ug/L	-25	40	0.0500	
2,2-Dichloropropane	0.8021	0.7669	40.00000	38.24190	ug/L	-4	30	0.0500	
cis-1,2-Dichloroethene	0.7365	0.6702	40.00000	36.40100	ug/L	-9	30	0.0500	
Chloroform	1.1910	1.0503	40.00000	35.27580	ug/L	-12	20	0.0500	
Bromochloromethane	0.4190	0.3870	40.00000	36.94350	ug/L	-8	30	0.0500	
1,1,1-Trichloroethane	0.8772	0.7976	40.00000	36.36970	ug/L	-9	30	0.0500	
1,1-Dichloropropene	0.5003	0.4963	40.00000	39.67930	ug/L	-1	30	0.0500	
Carbon Tetrachloride	0.4695	0.4741	40.00000	40.39430	ug/L	1	30	0.0500	
1,2-Dichloroethane	0.5807	0.4905	40.00000	33.79110	ug/L	-16	30	0.0500	
Benzene	1.3710	1.3148	40.00000	38.36110	ug/L	-4	30	0.0500	
Trichloroethene	0.4158	0.3920	40.00000	37.70800	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.4502	0.3953	40.00000	35.11810	ug/L	-12	20	0.0500	
Bromodichloromethane	0.5081	0.4809	40.00000	37.86040	ug/L	-5	30	0.0500	
Dibromomethane	0.3731	0.3419	40.00000	36.65350	ug/L	-8	30	0.0500	
4-Methyl-2-Pentanone	0.6814	0.5127	40.00000	30.09880	ug/L	-25	40	0.0500	
cis-1,3-Dichloropropene	0.6271	0.5777	40.00000	36.84460	ug/L	-8	30	0.0500	
Toluene	0.8514	0.8065	40.00000	37.88990	ug/L	-5	20	0.0500	
trans-1,3-Dichloropropene	0.5574	0.4992	40.00000	35.82640	ug/L	-10	30	0.0500	
1,1,2-Trichloroethane	0.2383	0.2151	40.00000	36.10520	ug/L	-10	30	0.0500	
2-Hexanone	0.6678	0.5041	40.00000	30.19440	ug/L	-25	40	0.0500	
1,3-Dichloropropane	0.7288	0.6368	40.00000	34.94980	ug/L	-13	30	0.0500	
Tetrachloroethene	0.4395	0.4839	40.00000	44.03420	ug/L	10	30	0.0500	
Dibromochloromethane	0.5801	0.5201	40.00000	35.86710	ug/L	-10	30	0.0500	
1,2-Dibromoethane	0.4486	0.4038	40.00000	36.00390	ug/L	-10	30	0.0500	
Chlorobenzene	1.2308	1.1881	40.00000	38.61150	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4297	0.4142	40.00000	38.55960	ug/L	-4	30	0.0500	
Ethylbenzene	1.8465	1.8004	40.00000	39.00140	ug/L	-2	20	0.0500	
m,p-Xylenes	0.7354	0.7342	80.00000	79.86810	ug/L	0	30	0.0500	
o-Xylene	0.7370	0.7110	40.00000	38.58750	ug/L	-4	30	0.0500	
Styrene	1.2600	1.2049	40.00000	38.25030	ug/L	-4	30	0.0500	
Bromoform	0.4041	0.3913	40.00000	38.73440	ug/L	-3	30	0.1000	

!=warning -=low bias c=CCV

141 08/06/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 40PPB IDF : 1.0
Seqnum : 454314501002 Filename : fh502 Injected : 05-AUG-2004 09:57
Calnum : 454284216002 Caldate : 15-JUL-2004 Caltype : SOIL
Standards: 04SS250 (12500X), 04WS1422A (6250X), 04WS1255 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Isopropylbenzene	3.4320	3.2985	40.00000	38.44350	ug/L	-4	30	0.0500	
1,1,2,2-Tetrachloroethane	1.4398	1.2292	40.00000	34.14840	ug/L	-15	30	0.3000	
1,2,3-Trichloropropane	0.3554	0.2965	40.00000	33.36880	ug/L	-17	30	0.0500	
Propylbenzene	4.2862	4.1236	40.00000	38.48320	ug/L	-4	30	0.0500	
Bromobenzene	1.0754	1.0163	40.00000	37.80190	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	2.8990	2.7243	40.00000	37.58930	ug/L	-6	30	0.0500	
2-Chlorotoluene	2.9472	2.7030	40.00000	36.68540	ug/L	-8	30	0.0500	
4-Chlorotoluene	2.7142	2.4815	40.00000	36.57030	ug/L	-9	30	0.0500	
tert-Butylbenzene	2.4424	2.6097	40.00000	42.74030	ug/L	7	30	0.0500	
1,2,4-Trimethylbenzene	2.8989	2.6523	40.00000	36.59680	ug/L	-9	30	0.0500	
sec-Butylbenzene	3.7766	3.6609	40.00000	38.77540	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	2.9265	2.8203	40.00000	38.54720	ug/L	-4	30	0.0500	
1,3-Dichlorobenzene	1.7261	1.6939	40.00000	39.25310	ug/L	-2	30	0.0500	
1,4-Dichlorobenzene	1.7791	1.7608	40.00000	39.58950	ug/L	-1	30	0.0500	
n-Butylbenzene	2.8565	2.6871	40.00000	37.62830	ug/L	-6	30	0.0500	
1,2-Dichlorobenzene	1.6521	1.5938	40.00000	38.58900	ug/L	-4	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2548	0.1978	40.00000	31.04330	ug/L	-22	30	0.0500	!c-
1,2,4-Trichlorobenzene	0.9217	0.9108	40.00000	39.52740	ug/L	-1	30	0.0500	
Hexachlorobutadiene	0.5179	0.5558	40.00000	42.92550	ug/L	7	30	0.0500	
Naphthalene	2.1053	1.6819	40.00000	31.95560	ug/L	-20	30	0.0500	
1,2,3-Trichlorobenzene	0.9209	0.8660	40.00000	37.61480	ug/L	-6	30	0.0500	
Dibromofluoromethane	0.7687	0.7179	50.00000	46.69650	ug/L	-7	30	0.0500	
1,2-Dichloroethane-d4	0.4119	0.3680	50.00000	44.66880	ug/L	-11	30	0.0500	
Toluene-d8	1.0037	0.9903	50.00000	49.33110	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.0880	0.9869	50.00000	45.35180	ug/L	-9	30	0.0500	

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1416203	10.56	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2245517	5.72	10.51	10.50	-0.01
Chlorobenzene-d5	1735753	1825744	5.18	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	938025	8.57	19.83	19.82	-0.01

!=warning -=low bias c=CCV
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH502.D
Report Date: 05-Aug-2004 11:01

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH502.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 05-AUG-2004 09:57 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : CCV,04SS250,0.0004/5,04WS1422A,0.0008/5
Misc Info : 40PPB
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\I6M826.m
Meth Date : 05-Aug-2004 11:01 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.325	3.321	(0.369)	1538887	62.5000	46.4945
2 Chloromethane	50	3.680	3.675	(0.408)	993700	62.5000	42.4400
3 Vinyl Chloride	62	3.837	3.833	(0.426)	363055	62.5000	39.6838
4 Bromomethane	94	4.507	4.502	(0.500)	530648	62.5000	37.6583
5 Chloroethane	64	4.635	4.630	(0.514)	445057	62.5000	39.3472
6 Trichlorofluoromethane	101	5.078	5.083	(0.563)	1223750	62.5000	44.9586
7 Acetone	43	5.649	5.645	(0.626)	381982	62.5000	33.9259
8 Freon 113	101	5.777	5.783	(0.641)	684142	62.5000	39.2499
9 1,1-Dichloroethene	96	5.964	5.960	(0.661)	619194	62.5000	39.2125
10 Methylene Chloride	84	6.585	6.590	(0.730)	765114	62.5000	36.0431
11 Carbon Disulfide	76	6.683	6.679	(0.741)	2170166	62.5000	35.8516
12 MTBE	73	6.939	6.935	(0.770)	1524145	62.5000	31.0907
13 trans-1,2-Dichloroethene	96	7.107	7.102	(0.788)	716249	62.5000	37.6281
14 Vinyl Acetate	43	7.648	7.654	(0.848)	1726771	62.5000	32.4625
15 1,1-Dichloroethane	63	7.678	7.673	(0.851)	1275688	62.5000	34.6404
16 2-Butanone	43	8.239	8.235	(0.914)	525625	62.5000	30.0256

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH502.D
Report Date: 05-Aug-2004 11:01

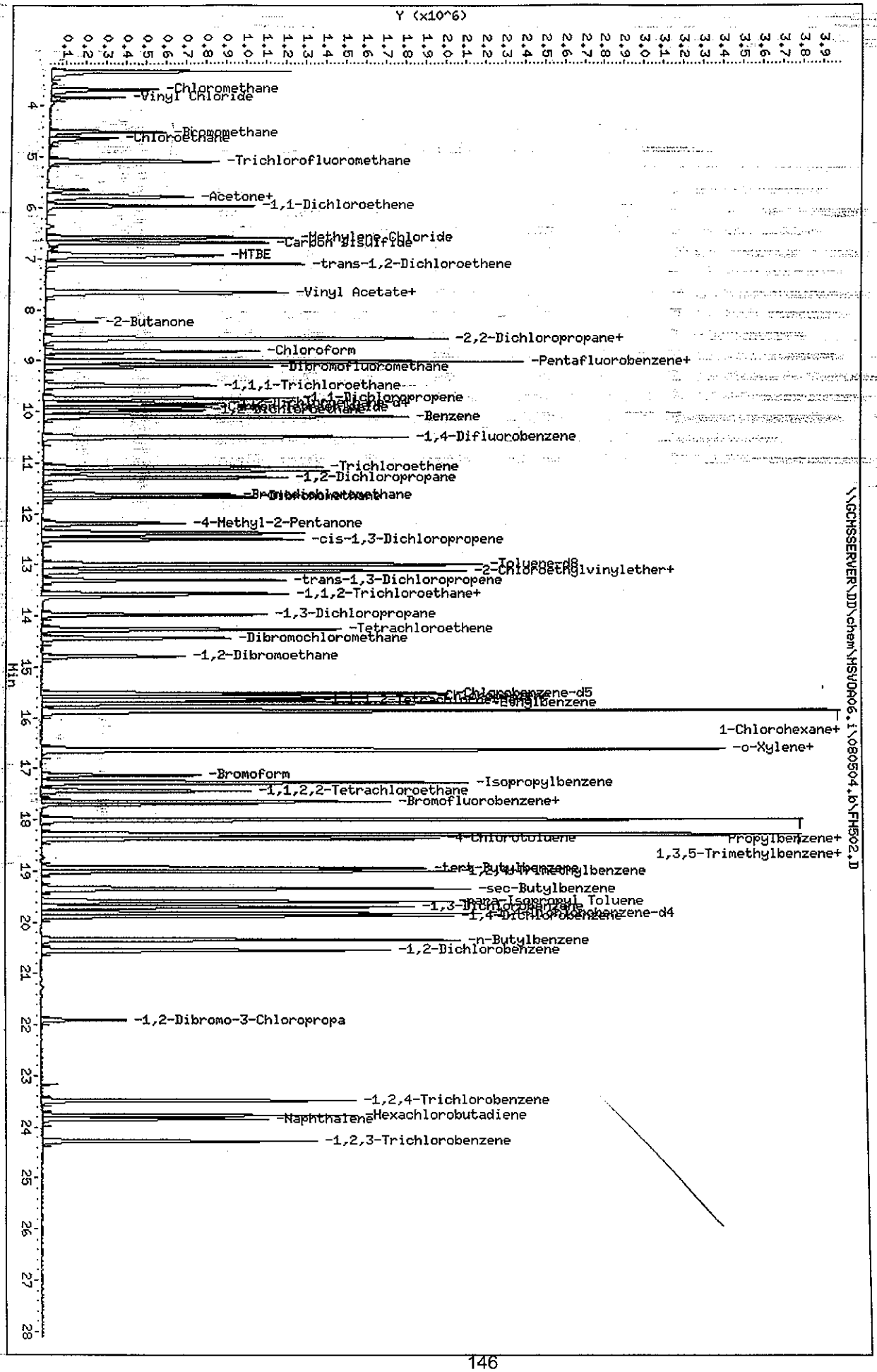
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.564	8.570	(0.950)	868850	62.5000	38.2419
	18 cis-1,2-Dichloroethene	96	8.574	8.570	(0.951)	759330	62.5000	36.4010
	19 Chloroform	83	8.820	8.826	(0.978)	1189997	62.5000	35.2757
*	20 Pentafluorobenzene	168	9.017	9.023	(1.000)	1416203	50.0000	
	21 Bromochloromethane	128	9.017	9.023	(1.000)	438456	62.5000	36.9435
$	22 Dibromofluoromethane	113	9.116	9.111	(1.011)	1016654	50.0000	46.6964
	23 1,1,1-Trichloroethane	97	9.490	9.495	(1.052)	903646	62.5000	36.3696
	24 1,1-Dichloropropene	75	9.736	9.742	(0.927)	891531	62.5000	39.6792
$	25 1,2-Dichloroethane-d4	65	9.844	9.850	(0.937)	826334	50.0000	44.6687
	26 Carbon Tetrachloride	117	9.913	9.919	(0.944)	851750	62.5000	40.3942
	27 1,2-Dichloroethane	62	9.992	9.988	(0.951)	881209	62.5000	33.7911
	28 Benzene	78	10.100	10.106	(0.962)	2361976	62.5000	38.3610
*	29 1,4-Difluorobenzene	114	10.504	10.510	(1.000)	2245517	50.0000	
	30 Trichloroethene	95	11.085	11.091	(1.055)	704167	62.5000	37.7080
	31 1,2-Dichloropropane	63	11.292	11.298	(1.075)	710102	62.5000	35.1181
	32 Bromodichloromethane	83	11.637	11.642	(1.108)	863984	62.5000	37.8604
	33 Dibromomethane	93	11.686	11.692	(1.113)	614238	62.5000	36.6534
	34 2-Chloroethylvinylether	63	13.124	13.129	(1.249)	216264	62.5000	35.6540
	35 4-Methyl-2-Pentanone	43	12.198	12.204	(1.161)	921040	62.5000	30.0987
	36 cis-1,3-Dichloropropene	75	12.503	12.509	(1.190)	1037744	62.5000	36.8445
$	37 Toluene-d8	98	12.996	13.001	(1.237)	2223724	50.0000	49.3311
	38 Toluene	92	13.124	13.129	(1.249)	1448757	62.5000	37.8899
	39 trans-1,3-Dichloropropene	75	13.301	13.307	(1.266)	896830	62.5000	35.8263
	40 1,1,2-Trichloroethane	85	13.567	13.573	(1.292)	386371	62.5000	36.1051
	41 2-Hexanone	43	13.616	13.622	(0.877)	736236	62.5000	30.1944
	42 1,3-Dichloropropane	76	13.981	13.986	(0.900)	930051	62.5000	34.9498
	43 Tetrachloroethene	166	14.276	14.282	(0.919)	706743	62.5000	44.0341
	44 Dibromochloromethane	129	14.443	14.449	(0.930)	759720	62.5000	35.8671
	45 1,2-Dibromoethane	107	14.798	14.804	(1.409)	725343	62.5000	36.0039
*	46 Chlorobenzene-d5	117	15.527	15.532	(1.000)	1825744	50.0000	
	47 Chlorobenzene	112	15.586	15.601	(1.004)	1735318	62.5000	38.6114
	48 1,1,1,2-Tetrachloroethane	131	15.655	15.660	(1.008)	604949	62.5000	38.5595
	49 1-Chlorohexane	91	15.871	15.877	(1.022)	3923710	62.5000	39.0851
	50 Ethylbenzene	91	15.724	15.719	(1.013)	2629665	62.5000	39.0014
	51 m,p-Xylenes	106	15.871	15.877	(1.022)	2144828	125.000	79.8681
	52 o-Xylene	106	16.620	16.625	(1.070)	1038447	62.5000	38.5874
	53 Styrene	104	16.640	16.645	(1.072)	1759892	62.5000	38.2503
	54 Bromoform	173	17.132	17.138	(1.103)	571483	62.5000	38.7344
	55 Isopropylbenzene	105	17.270	17.275	(0.871)	2475254	62.5000	38.4434
	56 1,1,2,2-Tetrachloroethane	83	17.437	17.443	(0.880)	922388	62.5000	34.1484
$	57 Bromofluorobenzene	95	17.644	17.659	(0.890)	925692	50.0000	45.3518
	58 1,2,3-Trichloropropane	110	17.693	17.699	(0.893)	222483	62.5000	33.3688
	59 Propylbenzene	91	17.999	18.004	(0.908)	3094469	62.5000	38.4832
	60 Bromobenzene	156	17.999	18.004	(0.908)	762633	62.5000	37.8018
	61 1,3,5-Trimethylbenzene	105	18.294	18.300	(0.923)	2044360	62.5000	37.5893
	62 2-Chlorotoluene	91	18.284	18.290	(0.922)	2028374	62.5000	36.6853
	63 4-Chlorotoluene	91	18.373	18.378	(0.927)	1862172	62.5000	36.5702

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH502.D
Report Date: 05-Aug-2004 11:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.944	18.950	(0.956)	1958356	62.5000	42.7403
	65 1,2,4-Trimethylbenzene	105	19.003	19.009	(0.959)	1990330	62.5000	36.5968
	66 sec-Butylbenzene	105	19.338	19.344	(0.976)	2747245	62.5000	38.7753
	67 para-Isopropyl Toluene	119	19.594	19.590	(0.989)	2116381	62.5000	38.5472
	68 1,3-Dichlorobenzene	146	19.702	19.708	(0.994)	1271138	62.5000	39.2531
*	69 1,4-Dichlorobenzene-d4	152	19.821	19.826	(1.000)	938025	50.0000	
	70 1,4-Dichlorobenzene	146	19.880	19.885	(1.003)	1321344	62.5000	39.5894
	71 n-Butylbenzene	91	20.342	20.348	(1.026)	2016475	62.5000	37.6282
	72 1,2-Dichlorobenzene	146	20.549	20.555	(1.037)	1196056	62.5000	38.5889
	73 1,2-Dibromo-3-Chloropropane	75	21.898	21.904	(1.105)	148413	62.5000	31.0432
	74 1,2,4-Trichlorobenzene	180	23.484	23.490	(1.185)	683468	62.5000	39.5273
	75 Hexachlorobutadiene	225	23.770	23.775	(1.199)	417099	62.5000	42.9255
	76 Naphthalene	128	23.848	23.854	(1.203)	1262133	62.5000	31.9556
	77 1,2,3-Trichlorobenzene	180	24.282	24.277	(1.225)	649870	62.5000	37.6148

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\080504.b\FH502.D
Date : 05-AUG-2004 09:57
Client ID: DYNA P&T
Sample Info: CCV,04SS250,0.0004/5,04WS14422A,0.0008/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93677
Date: 08/12/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173857-001	15.4365	22.8128	22.4789	95	5
173857-002	15.2825	22.2745	21.9924	96	4
173881-025	15.2216	22.6951	22.3870	96	4
173881-026	15.5389	22.8794	22.5438	95	5
173881-028	15.6512	22.8394	22.5465	96	4
173881-029	15.2827	22.6613	22.4821	98	2
173881-030	15.5933	22.3822	22.1381	96	4
173895-001	15.4115	22.8971	22.4930	95	5
173895-002	15.4235	22.3865	21.5073	87	13
173895-003	15.4641	22.5407	21.6587	88	12
173895-004	15.4109	22.6418	20.7659	74	26
173895-005	15.2925	22.9394	21.8503	86	14
173895-006	15.2137	22.3705	21.8531	93	7
QC260907	15.7376	22.6171	22.2460	95	5
of 173857-001			RPD:	0.9%	17.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93677
Date Started: 11-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
L73857-001		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
L73857-002		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
L73881-025		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-026		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-028		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-029		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-030		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73895-001		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
L73895-002		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
L73895-003		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
L73895-004		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
L73895-005		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
L73895-006		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
QC260907	SDUP of 173857-001		Soil	MOISTURE	

8/11/04

#93677

Sample		BL	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	3	15.3479	—	15.3477	
173881	-25	A	80	15.2216	22.6951	22.3870	
	26		112	15.5389	22.8794	22.5438	
	28		1976	15.6512	22.8394	22.5465	
	29		73	15.2827	22.6613	22.4821	
	30		29	15.5933	22.3822	22.1381	
173857	-1		32	15.4365	22.8128	22.4789	
DUP	1		33	15.7376	22.6171	22.2460	
	95 2		26	15.2825	22.2745	21.9924	
173859	-1		6	15.4115	22.8971	22.4930	
	2m 8/11 2		54	15.4235	22.3865	21.5873	
	3		HiDEL	15.4641	22.5407	21.6587	
	4		24	15.4109	22.6418	20.7659	
	5		44	15.2925	22.9394	21.8503	
	6		146	15.2137	22.3705	21.8531	

OVEN TEMP: 103°C
TIME IN: 4:45 P.M.
TIME OUT: 9:38 A.M. ON: 8/12/04

Continued on Page

Read and Understood By

Z. Manning 8/11/04 150 [illegible] 8-12

Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173857
Semivolatile Organics by GC/MS

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio - Baker Beach 3

Sample ID	Lab ID
BB3EX108[0.5]	173857-001
DUP080504A	173857-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/7/04
Operations Manager

Signature: _____ Date: 8/30/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS (EPA 8270C)

Laboratory number:	173857
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio - Baker Beach 3
Request Date:	08/05/04
Samples Received:	08/05/04

This hardcopy data package contains sample and batch QC results for two soil samples, requested for the above referenced project on 08/05/04. The samples were received cold and intact.

Low response was observed for 4-nitroaniline in the ICV analyzed 07/16/04 14:14; this analyte was not detected in the associated samples.

No other analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

173857

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2393.12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Chambers
Recorder (Signature Required): [signature]

Turnaround Time: 5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	pesticides	PCBs	mercury	VOCs	SVOCs	PAH diesel	TPH fuel oil	Chlorinated Hrb				Silica gel clean-up	Hold	Remarks
1 BBBEX105[03]	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		Send tube from "B" and labeled with Level 4 data Package
2 DUP080504A	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/5/04	1415	John Kayton	8/5	2:8
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Mark Cohen	Date 8-5-04	Time 15:30	Received by Lab: (Signature) Lavanna Cati	Date 8/5/04	Time 15:50

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: send login to Colleen Haradon - SF Office

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☒ Private Courier (Co. Name) Ultra Ex

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002235

4

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173857 Date Received: 8-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 8-5-04 By (print): Troy Windsor (sign) Troy E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C ..... (YES) NO
   Type of ice: wet Temperature: cold – no temp blank

B. Login Phase
Date Logged In: 8-5-04 By (print): Troy Windsor (sign) Troy E. Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX108[0.5]	Batch#:	93643
Lab ID:	173857-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/10/04
Basis:	dry	Analyzed:	08/11/04
Diln Fac:	1.000		

Moisture: 5%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	360
Phenol	ND	360
bis(2-Chloroethyl)ether	ND	360
2-Chlorophenol	ND	360
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
Benzyl alcohol	ND	360
1,2-Dichlorobenzene	ND	360
2-Methylphenol	ND	360
bis(2-Chloroisopropyl) ether	ND	360
4-Methylphenol	ND	360
N-Nitroso-di-n-propylamine	ND	360
Hexachloroethane	ND	360
Nitrobenzene	ND	360
Isophorone	ND	360
2-Nitrophenol	ND	710
2,4-Dimethylphenol	ND	360
Benzoic acid	ND	1,800
bis(2-Chloroethoxy)methane	ND	360
2,4-Dichlorophenol	ND	360
1,2,4-Trichlorobenzene	ND	360
Naphthalene	ND	360
4-Chloroaniline	ND	360
Hexachlorobutadiene	ND	360
4-Chloro-3-methylphenol	ND	360
2-Methylnaphthalene	ND	360
Hexachlorocyclopentadiene	ND	1,800
2,4,6-Trichlorophenol	ND	360
2,4,5-Trichlorophenol	ND	360
2-Chloronaphthalene	ND	360
2-Nitroaniline	ND	710
Dimethylphthalate	ND	360
Acenaphthylene	ND	360
2,6-Dinitrotoluene	ND	360
3-Nitroaniline	ND	710
Acenaphthene	ND	710
2,4-Dinitrophenol	ND	1,800
4-Nitrophenol	ND	710
Dibenzofuran	ND	360
2,4-Dinitrotoluene	ND	360
Diethylphthalate	ND	360
Fluorene	ND	360
4-Chlorophenyl-phenylether	ND	360
4-Nitroaniline	ND	710
4,6-Dinitro-2-methylphenol	ND	1,800
N-Nitrosodiphenylamine	ND	360
Azobenzene	ND	360
4-Bromophenyl-phenylether	ND	360
Hexachlorobenzene	ND	360
Pentachlorophenol	ND	710
Phenanthrene	ND	360
Anthracene	ND	360

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX108[0.5]	Batch#:	93643
Lab ID:	173857-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/10/04
Basis:	dry	Analyzed:	08/11/04
Diln Fac:	1.000		

Analyte	Result	RL
Di-n-butylphthalate	ND	360
Fluoranthene	ND	360
Pyrene	ND	360
Butylbenzylphthalate	ND	360
3,3'-Dichlorobenzidine	ND	710
Benzo(a)anthracene	ND	71
Chrysene	ND	360
bis(2-Ethylhexyl)phthalate	ND	360
Di-n-octylphthalate	ND	360
Benzo(b)fluoranthene	ND	71
Benzo(k)fluoranthene	ND	71
Benzo(a)pyrene	ND	71
Indeno(1,2,3-cd)pyrene	ND	71
Dibenz(a,h)anthracene	ND	71
Benzo(g,h,i)perylene	ND	360

Surrogate	%REC	Limits
2-Fluorophenol	61	25-121
Phenol-d5	59	24-113
2,4,6-Tribromophenol	45	19-122
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	66	30-115
Terphenyl-d14	51	18-137

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	DUP080504A	Batch#:	93643
Lab ID:	173857-002	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/10/04
Basis:	dry	Analyzed:	08/11/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	350
Phenol	ND	350
bis(2-Chloroethyl)ether	ND	350
2-Chlorophenol	ND	350
1,3-Dichlorobenzene	ND	350
1,4-Dichlorobenzene	ND	350
Benzyl alcohol	ND	350
1,2-Dichlorobenzene	ND	350
2-Methylphenol	ND	350
bis(2-Chloroisopropyl) ether	ND	350
4-Methylphenol	ND	350
N-Nitroso-di-n-propylamine	ND	350
Hexachloroethane	ND	350
Nitrobenzene	ND	350
Isophorone	ND	350
2-Nitrophenol	ND	700
2,4-Dimethylphenol	ND	350
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	350
2,4-Dichlorophenol	ND	350
1,2,4-Trichlorobenzene	ND	350
Naphthalene	ND	350
4-Chloroaniline	ND	350
Hexachlorobutadiene	ND	350
4-Chloro-3-methylphenol	ND	350
2-Methylnaphthalene	ND	350
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	350
2,4,5-Trichlorophenol	ND	350
2-Chloronaphthalene	ND	350
2-Nitroaniline	ND	700
Dimethylphthalate	ND	350
Acenaphthylene	ND	350
2,6-Dinitrotoluene	ND	350
3-Nitroaniline	ND	700
Acenaphthene	ND	700
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	700
Dibenzofuran	ND	350
2,4-Dinitrotoluene	ND	350
Diethylphthalate	ND	350
Fluorene	ND	350
4-Chlorophenyl-phenylether	ND	350
4-Nitroaniline	ND	700
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	350
Azobenzene	ND	350
4-Bromophenyl-phenylether	ND	350
Hexachlorobenzene	ND	350
Pentachlorophenol	ND	700
Phenanthrene	ND	350
Anthracene	ND	350

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	DUP080504A	Batch#:	93643
Lab ID:	173857-002	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/10/04
Basis:	dry	Analyzed:	08/11/04
Diln Fac:	1.000		

Analyte	Result	RL
Di-n-butylphthalate	ND	350
Fluoranthene	ND	350
Pyrene	ND	350
Butylbenzylphthalate	ND	350
3,3'-Dichlorobenzidine	ND	700
Benzo(a)anthracene	ND	70
Chrysene	ND	350
bis(2-Ethylhexyl)phthalate	ND	350
Di-n-octylphthalate	ND	350
Benzo(b)fluoranthene	ND	70
Benzo(k)fluoranthene	ND	70
Benzo(a)pyrene	ND	70
Indeno(1,2,3-cd)pyrene	ND	70
Dibenz(a,h)anthracene	ND	70
Benzo(g,h,i)perylene	ND	350

Surrogate	%REC	Limits
2-Fluorophenol	70	25-121
Phenol-d5	68	24-113
2,4,6-Tribromophenol	49	19-122
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	73	30-115
Terphenyl-d14	59	18-137

ND= Not Detected
RL= Reporting Limit

26.1

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260755	Batch#:	93643
Matrix:	Soil	Prepared:	08/10/04
Units:	ug/Kg	Analyzed:	08/10/04
Basis:	as received		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	340
Phenol	ND	340
bis(2-Chloroethyl)ether	ND	340
2-Chlorophenol	ND	340
1,3-Dichlorobenzene	ND	340
1,4-Dichlorobenzene	ND	340
Benzyl alcohol	ND	340
1,2-Dichlorobenzene	ND	340
2-Methylphenol	ND	340
bis(2-Chloroisopropyl) ether	ND	340
4-Methylphenol	ND	340
N-Nitroso-di-n-propylamine	ND	340
Hexachloroethane	ND	340
Nitrobenzene	ND	340
Isophorone	ND	340
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	340
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	340
2,4-Dichlorophenol	ND	340
1,2,4-Trichlorobenzene	ND	340
Naphthalene	ND	340
4-Chloroaniline	ND	340
Hexachlorobutadiene	ND	340
4-Chloro-3-methylphenol	ND	340
2-Methylnaphthalene	ND	340
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2-Chloronaphthalene	ND	340
2-Nitroaniline	ND	670
Dimethylphthalate	ND	340
Acenaphthylene	ND	340
2,6-Dinitrotoluene	ND	340
3-Nitroaniline	ND	670
Acenaphthene	ND	670
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	670
Dibenzofuran	ND	340
2,4-Dinitrotoluene	ND	340
Diethylphthalate	ND	340
Fluorene	ND	340
4-Chlorophenyl-phenylether	ND	340
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	340
Azobenzene	ND	340
4-Bromophenyl-phenylether	ND	340
Hexachlorobenzene	ND	340
Pentachlorophenol	ND	670
Phenanthrene	ND	340
Anthracene	ND	340
Di-n-butylphthalate	ND	340
Fluoranthene	ND	340

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260755	Batch#:	93643
Matrix:	Soil	Prepared:	08/10/04
Units:	ug/Kg	Analyzed:	08/10/04
Basis:	as received		

Analyte	Result	RL
Pyrene	ND	340
Butylbenzylphthalate	ND	340
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	340
bis(2-Ethylhexyl)phthalate	ND	340
Di-n-octylphthalate	ND	340
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	340

Surrogate	%REC	Limits
2-Fluorophenol	66	25-121
Phenol-d5	62	24-113
2,4,6-Tribromophenol	43	19-122
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	72	30-115
Terphenyl-d14	55	18-137

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260756	Batch#:	93643
Matrix:	Soil	Prepared:	08/10/04
Units:	ug/Kg	Analyzed:	08/10/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,382	2,190	65	40-119
2-Chlorophenol	3,382	2,225	66	39-119
1,4-Dichlorobenzene	1,691	1,087	64	36-111
N-Nitroso-di-n-propylamine	1,691	1,163	69	35-117
1,2,4-Trichlorobenzene	1,691	1,007	60	36-107
4-Chloro-3-methylphenol	3,382	2,044	60	41-122
Acenaphthene	1,691	1,058	63	36-111
4-Nitrophenol	3,382	1,889	56	45-130
2,4-Dinitrotoluene	1,691	945.9	56	43-114
Pentachlorophenol	3,382	1,789	53	39-119
Pyrene	1,691	1,062	63	35-142

Surrogate	%REC	Limits
2-Fluorophenol	65	25-121
Phenol-d5	62	24-113
2,4,6-Tribromophenol	55	19-122
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	67	30-115
Terphenyl-d14	60	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX108[0.5]	Batch#:	93643
MSS Lab ID:	173857-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/10/04
Basis:	dry	Analyzed:	08/11/04
Diln Fac:	1.000		

Type: MS Moisture: 5%
Lab ID: QC260757

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<29.47	3,553	2,045	58	26-100
2-Chlorophenol	<23.16	3,553	2,218	62	25-102
1,4-Dichlorobenzene	<27.37	1,776	1,075	61	28-104
N-Nitroso-di-n-propylamine	<21.05	1,776	1,116	63	41-126
1,2,4-Trichlorobenzene	<23.16	1,776	983.5	55	38-107
4-Chloro-3-methylphenol	<36.84	3,553	1,991	56	26-103
Acenaphthene	<14.74	1,776	1,020	57	31-137
4-Nitrophenol	<38.95	3,553	1,853	52	11-114
2,4-Dinitrotoluene	<23.16	1,776	957.5	54	28-100
Pentachlorophenol	<50.53	3,553	1,611	45	17-109
Pyrene	<11.58	1,776	1,020	57	35-142

Surrogate	%REC	Limits
2-Fluorophenol	60	25-121
Phenol-d5	57	24-113
2,4,6-Tribromophenol	50	19-122
Nitrobenzene-d5	56	23-120
2-Fluorobiphenyl	64	30-115
Terphenyl-d14	54	18-137

Type: MSD Moisture: 5%
Lab ID: QC260758

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,467	1,838	53	26-100	8	35
2-Chlorophenol	3,467	1,939	56	25-102	11	50
1,4-Dichlorobenzene	1,734	942.6	54	28-104	11	27
N-Nitroso-di-n-propylamine	1,734	981.1	57	41-126	10	38
1,2,4-Trichlorobenzene	1,734	863.6	50	38-107	11	23
4-Chloro-3-methylphenol	3,467	1,775	51	26-103	9	33
Acenaphthene	1,734	902.9	52	31-137	10	19
4-Nitrophenol	3,467	1,613	47	11-114	11	50
2,4-Dinitrotoluene	1,734	828.3	48	28-100	12	47
Pentachlorophenol	3,467	1,168	34	17-109	29	48
Pyrene	1,734	893.2	52	35-142	11	36

Surrogate	%REC	Limits
2-Fluorophenol	54	25-121
Phenol-d5	53	24-113
2,4,6-Tribromophenol	44	19-122
Nitrobenzene-d5	51	23-120
2-Fluorobiphenyl	58	30-115
Terphenyl-d14	49	18-137

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGC02.D

Date : 16-JUL-2004 08:55

Client ID: dftpp tune std

Instrument: MSBNA03.i

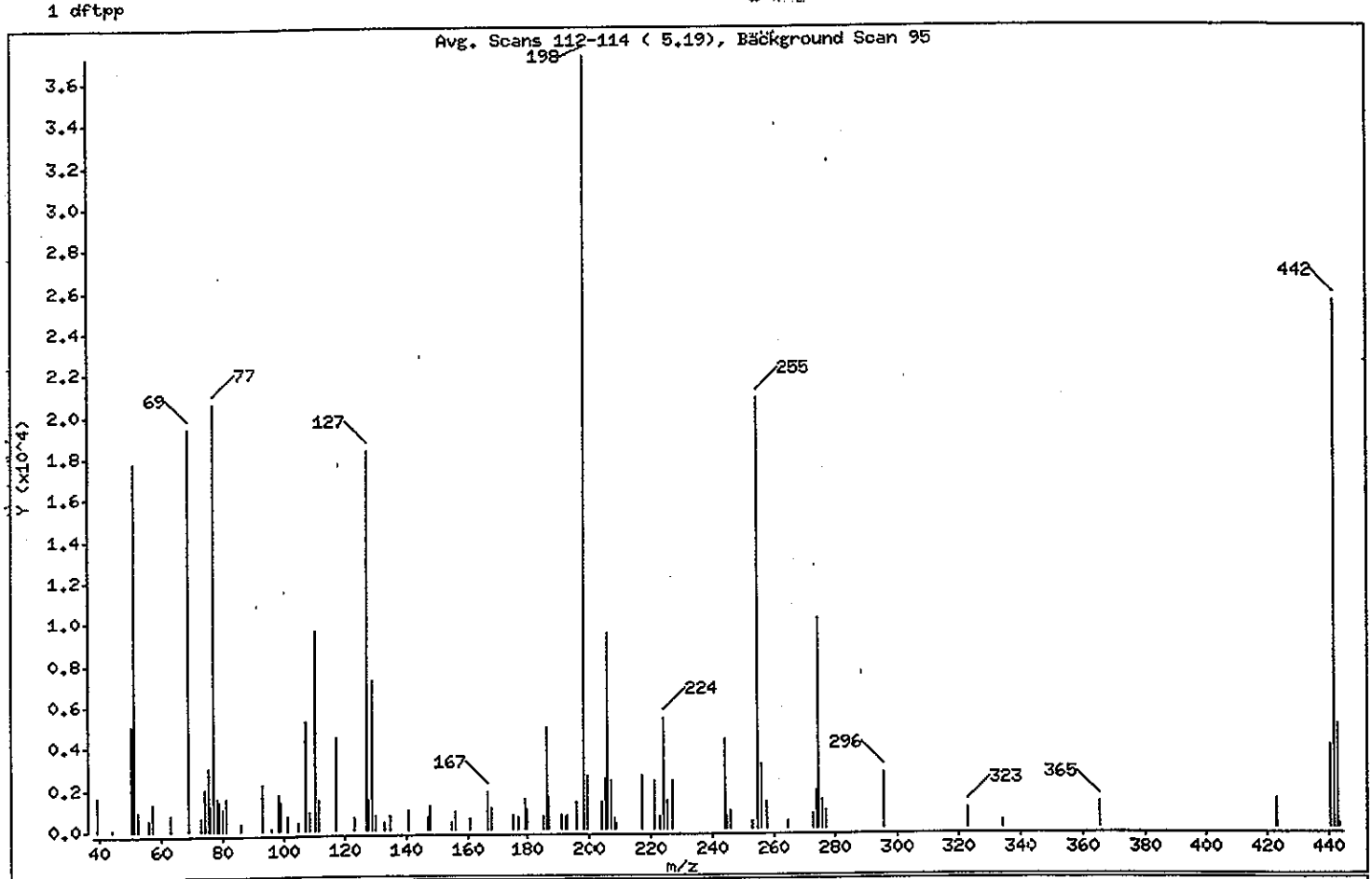
Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.63
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.07
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.18
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	27.29
365	Greater than 1.00% of mass 198	3.25
441	Present, but less than mass 443	10.66
442	40.00 - 99.99% of mass 198	68.22
443	17.00 - 23.00% of mass 442	13.37 (19.60)

8270 ICAL

7/16/04

/mm 7/19/=

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA04.D

Date : 10-AUG-2004 22:15

Client ID: dftpp tune std

Instrument: MSBNA03.i

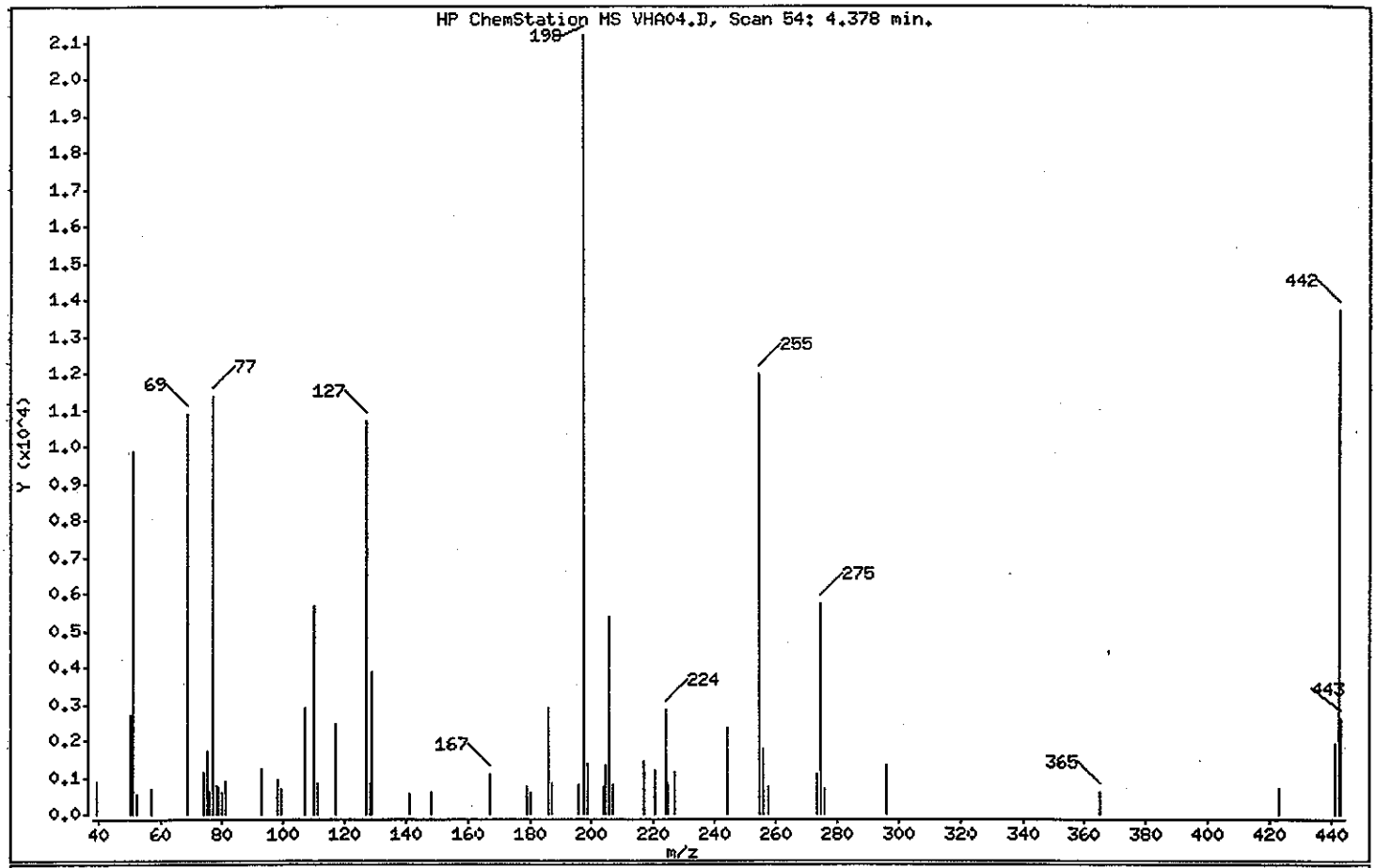
Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.55
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.31
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.40
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	26.96
365	Greater than 1.00% of mass 198	2.85
441	Present, but less than mass 443	9.09
442	40.00 - 99.99% of mass 198	64.66
443	17.00 - 23.00% of mass 442	12.15 (18.78)

08/10/04

(SNAO) OCW Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By: /mm 7/19/04
Calnum: 524285642001 Name: 6PTBNA3 Type: (normal) Date: 16-JUL-2004 09:58 Inj Vol (uL): 1

See grant reports for manual integration due to splitting/mis-identification

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	vgg04	524285642004	2ug/mL	16-JUL-2004 09:58	04WS1164
2	vgg05	524285642005	10ug/mL	16-JUL-2004 10:33	04WS1165
3	vgg06	524285642006	20ug/mL	16-JUL-2004 11:12	04WS1166
4	vgg07	524285642007	50ug/mL	16-JUL-2004 11:49	04WS1167
5	vgg08	524285642008	80ug/mL	16-JUL-2004 12:25	04WS1168
6	vgg09	524285642009	120ug/mL	16-JUL-2004 13:00	04WS1169
7	vgg10	524285642010	160ug/mL	16-JUL-2004 13:38	04WS1170

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.5966	0.5861	0.5813	0.5762	0.5793	0.5767	AVRG	R		1.716173		ng	0.5827	1	0.0500	0.99	15	
Pyridine		1.4413	1.3999	1.4210	1.4288	1.4417	1.4659	AVRG	R		0.697790		ng	1.4331	2	0.0500	0.99	15	
Phenol		1.7225	1.7651	1.7614	1.7483	1.7323	1.6866	AVRG	R		0.576024		ng	1.7360	2	0.0500	0.99	15	
Aniline		0.6617	0.7171	0.6946	0.6845	0.6660	0.6506	AVRG	R		1.472575		ng	0.6791	4	0.0500	0.99	15	
bis(2-Chloroethyl)ether		1.0879	1.0671	1.0577	1.0262	0.9818	0.8900	AVRG	R		0.981872		ng	1.0185	7	0.0500	0.99	15	
2-Chlorophenol		1.3162	1.3096	1.3473	1.3894	1.4057	1.4371	AVRG	R		0.731232		ng	1.3676	4	0.0500	0.99	15	
1,3-Dichlorobenzene		1.5269	1.4945	1.5479	1.5606	1.5907	1.4931	AVRG	R		0.651207		ng	1.5356	3	0.0500	0.99	15	
1,4-Dichlorobenzene		1.5923	1.5692	1.6319	1.6274	1.5695	1.3774	AVRG	R		0.640496		ng	1.5613	6	0.0500	0.99	15	
Benzyl alcohol		0.8032	0.8417	0.9092	0.9347	0.9349	0.9542	AVRG	R		1.115674		ng	0.8963	7	0.0500	0.99	15	
1,2-Dichlorobenzene		1.4715	1.4653	1.5136	1.4526	1.3546	1.1980	AVRG	R		0.709599		ng	1.4092	8	0.0500	0.99	15	
2-Methylphenol		1.0751	1.1134	1.1236	1.0467	0.9524	0.8844	AVRG	R		0.968450		ng	1.0326	9	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		1.9569	1.9126	1.8346	1.7154	1.6081	1.4896	AVRG	R		0.570492		ng	1.7529	10	0.0500	0.99	15	
4-Methylphenol		1.6033	1.5839	1.6617	1.6816	1.6595	1.6803	AVRG	R		0.607883		ng	1.6451	3	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.7383	0.7672	0.8079	0.8054	0.7846	0.8016	AVRG	R		1.275245		ng	0.7842	3	0.0500	0.99	15	
Hexachloroethane		0.5639	0.5675	0.5830	0.5819	0.5640	0.5044	AVRG	R		1.783244		ng	0.5608	5	0.0500	0.99	15	
Nitrobenzene		0.4351	0.4286	0.4434	0.4444	0.4236	0.3925	AVRG	R		2.336829		ng	0.4279	4	0.0500	0.99	15	
Isophorone		0.7278	0.7597	0.7918	0.7922	0.7964	0.8151	AVRG	R		1.281238		ng	0.7805	4	0.0500	0.99	15	
2-Nitrophenol		0.2088	0.2071	0.2183	0.2352	0.2407	0.2170	AVRG	R		4.520773		ng	0.2212	6	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response response LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL: Ok except Benzaldehyde fails %RSD + ↓ min RF
ICV: Ok except 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail %D
— Benzo(g,h,i)perylene ↓ fails recovery limits

7/16/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524285642001 Name: 6PTBNA3 Type: (normal) Date: 16-JUL-2004 09:58 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2803	0.2781	0.2970	0.3187	0.3181	0.2936	AVRG	R		3.359754		ng	0.2976	6	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4468	0.4467	0.4805	0.4846	0.4726	0.4362	AVRG	R		2.168095		ng	0.4612	4	0.0500	0.99	15	
Benzoic acid		0.1186	0.1530	0.1762	0.2129m	0.2148m	0.2298	QUAD	R	5.311060	4.872378	-0.01804	ng	0.1842	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3122	0.3114	0.3427	0.3594	0.3533	0.3449	AVRG	R		2.964532		ng	0.3373	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3465	0.3455	0.3738	0.3912	0.3846	0.3468	AVRG	R		2.741667		ng	0.3647	6	0.0500	0.99	15	
Naphthalene	1.0988	1.1140	1.1029	1.1441	1.1406	1.0902	0.9335	AVRG	R		0.918126		ng	1.0892	7	0.0500	0.99	15	
4-Chloroaniline		0.4125	0.4209	0.4575	0.4612	0.4648	0.4498	AVRG	R		2.249925		ng	0.4445	5	0.0500	0.99	15	
Hexachlorobutadiene		0.2071	0.2073	0.2192	0.2300	0.2164	0.1733	AVRG	R		4.787352		ng	0.2089	9	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.3256	0.3266	0.3499	0.3655	0.3571	0.3367	AVRG	R		2.910641		ng	0.3436	5	0.0500	0.99	15	
2-Methylnaphthalene	0.7102	0.7583	0.7738	0.8192	0.8132	0.7771	0.6787	AVRG	R		1.313160		ng	0.7615	7	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2670	0.2577	0.3045	0.3251	0.3233	0.2837	AVRG	R		3.406439		ng	0.2936	10	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3703	0.3671	0.4186	0.4327	0.4447	0.4105	AVRG	R		2.455263		ng	0.4073	8	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3967	0.3928	0.4312	0.4585	0.4611	0.3953	AVRG	R		2.366295		ng	0.4226	8	0.0500	0.99	15	
2-Chloronaphthalene		1.0899	1.0508	1.1693	1.1491	1.1570	0.9600	AVRG	R		0.912396		ng	1.0960	7	0.0500	0.99	15	
2-Nitroaniline		0.3934	0.3755	0.3967	0.3971	0.3967	0.3606	AVRG	R		2.586309		ng	0.3867	4	0.0500	0.99	15	
Dimethylphthalate		1.3302	1.3200	1.4784	1.4796	1.4712	1.2739	AVRG	R		0.718280		ng	1.3922	7	0.0500	0.99	15	
2,6-Dinitrotoluene		0.3102	0.3058	0.3493	0.3652	0.3800	0.3537	AVRG	R		2.906813		ng	0.3440	9	0.0500	0.99	15	
Acenaphthylene	1.7245	1.8119	1.7557	1.9057	1.8935	1.8145	1.5050	AVRG	R		0.564026		ng	1.7730	8	0.0500	0.99	15	
3-Nitroaniline		0.2899	0.2931	0.3344	0.3573	0.3687	0.3580	AVRG	R		2.997655		ng	0.3336	10	0.0500	0.99	15	
Acenaphthene	1.0926	1.1520	1.1486	1.2611	1.2250	1.1557	0.8958	AVRG	R		0.882639		ng	1.1330	10	0.0500	0.99	15	
2,4-Dinitrophenol		0.1498	0.1771	0.2220	0.2367	0.2460	0.2395	LINR	R	4.754286	3.998277		ng	0.2118	0.999	0.0500	0.99	15	
4-Nitrophenol		0.1503	0.1508	0.1537	0.1498	0.1509	0.1453	AVRG	R		6.660670		ng	0.1501	2	0.0500	0.99	15	
Dibenzofuran		1.6802	1.6536	1.7961	1.7288	1.6437	1.3239	AVRG	R		0.610601		ng	1.6377	10	0.0500	0.99	15	
2,4-Dinitrotoluene		0.4299	0.4407	0.4760	0.4690	0.4540	0.4071	AVRG	R		2.241596		ng	0.4461	6	0.0500	0.99	15	
Diethylphthalate		1.3116	1.3004	1.4130	1.3899	1.3333	1.1112	AVRG	R		0.763419		ng	1.3099	8	0.0500	0.99	15	
Fluorene	1.3430	1.3768	1.3704	1.4930	1.4369	1.3934	1.1165	AVRG	R		0.734519		ng	1.3614	9	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6848	0.6746	0.7786	0.7548	0.7128	0.5480	AVRG	R		1.444587		ng	0.6922	12	0.0500	0.99	15	
4-Nitroaniline		0.2391	0.2452	0.2522	0.2648	0.2938	0.2577	AVRG	R		3.863834		ng	0.2588	7	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1254	0.1309	0.1630	0.1773	0.1732		LINR	R	4.156339	5.515978		ng	0.1540	0.999	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.4987	0.4895	0.5678	0.5777	0.5707	0.4420	AVRG	R		1.907015		ng	0.5244	11	0.0500	0.99	15	
Azobenzene		0.8099	0.7744	0.8030	0.7625	0.7944	0.5778	AVRG	R		1.326855		ng	0.7537	12	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524285642001 Name: 6PTBNA3 Type: (normal) Date: 16-JUL-2004 09:58 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2240	0.2204	0.2659	0.2763	0.2726	0.2320	AVRG	R		4.023708		ng	0.2485	10	0.0500	0.99	15	
Hexachlorobenzene		0.2412	0.2444	0.2909	0.3171	0.2964	0.2463	AVRG	R		3.666921		ng	0.2727	12	0.0500	0.99	15	
Pentachlorophenol		0.1515	0.1550	0.1882	0.2075	0.2084	0.2033	AVRG	R		5.386626		ng	0.1856	14	0.0500	0.99	15	
Phenanthrene	1.1003	1.1040	1.0727	1.1666	1.1570	1.1209	0.9597	AVRG	R		0.911313		ng	1.0973	6	0.0500	0.99	15	
Anthracene	1.0859	1.1033	1.0816	1.1701	1.1292	1.0354	0.8929	AVRG	R		0.933538		ng	1.0712	8	0.0500	0.99	15	
Carbazole		0.6960	0.6521	0.7507	0.8807	0.9184	0.9152	AVRG	R		1.246570		ng	0.8022	15	0.0500	0.99	15	
Di-n-butylphthalate		1.3429	1.2959	1.3356	1.2668	1.1597	0.9263	AVRG	R		0.818863		ng	1.2212	13	0.0500	0.99	15	
Fluoranthene	1.3179	1.3460	1.2918	1.3907	1.3604	1.3309	1.1029	AVRG	R		0.765813		ng	1.3058	7	0.0500	0.99	15	
Benzidine			0.0535	0.0330	0.0327	0.0321	0.0280	AVRG	R		27.89432		ng	0.0358	28	0.0500	0.99	15	irf rsd ***
Pyrene	1.2222	1.3056	1.2848	1.5037	1.5804	1.4988	1.2969	AVRG	R		0.722220		ng	1.3846	10	0.0500	0.99	15	
Butylbenzylphthalate		0.5288	0.5513	0.6614	0.7152	0.6956	0.6139	AVRG	R		1.593126		ng	0.6277	12	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3790	0.3840	0.4792	0.5447	0.5825	0.5205	LINR	R	4.595648	1.776252		ng	0.4816	0.991	0.0500	0.99	15	
Benzo(a)anthracene	1.1776	1.2333	1.2206	1.3925	1.5047	1.5450	1.4550	AVRG	R		0.734617		ng	1.3613	11	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.7372	0.7819	0.9374	0.9738	0.9605	0.7880	AVRG	R		1.158582		ng	0.8631	12	0.0500	0.99	15	
Chrysene	1.1288	1.1347	1.1181	1.2772	1.3867	1.4266	1.2924	AVRG	R		0.798681		ng	1.2521	10	0.0500	0.99	15	
Di-n-octylphthalate		1.4069	1.5489	1.8699	2.0234	2.1092	2.0951	LINR	R	5.183317	0.460097		ng	1.8422	0.999	0.0500	0.99	15	- RSD < 30%
Benzo(b)fluoranthene	1.2820	1.4188	1.5207	1.6857	2.0908	2.4491	2.8584	QUAD	R	3.455734	0.527799	-0.00041	ng	1.9008	0.998	0.0500	0.99	15	mcw 7/19
Benzo(k)fluoranthene	1.2338	1.4746	1.4334	1.6330	1.5827	1.5073	1.4170m	AVRG	R		0.680808		ng	1.4688	9	0.0500	0.99	15	
Benzo(a)pyrene	1.0018	1.2085	1.2566	1.3999	1.5178	1.5895	1.7016	QUAD	R	1.487009	0.713649	-0.00048	ng	1.3822	1.000	0.0500	0.99	15	- RSD < 30%
Indeno(1,2,3-cd)pyrene	1.1997	1.4552	1.4772	1.5922	1.5410	1.5356	1.6379	AVRG	R		0.670575		ng	1.4913	10	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9382	1.1730	1.2199	1.3819	1.3716	1.3713	1.4451	AVRG	R		0.786431		ng	1.2716	14	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.0063	1.1828	1.1602	1.1399	1.0110	1.0184	1.0530	AVRG	R		0.924505		ng	1.0817	7	0.0500	0.99	15	
2-Fluorophenol		1.2146	1.2063	1.2224	1.2403	1.2580	1.2829	AVRG	R		0.808128		ng	1.2374	2	0.0500	0.99	15	
Phenol-d5		1.6276	1.6252	1.6592	1.6658	1.6585	1.6349	AVRG	R		0.607827		ng	1.6452	1	0.0500	0.99	15	
Nitrobenzene-d5		0.4350	0.4299	0.4414	0.4474	0.4419	0.4164	AVRG	R		2.297036		ng	0.4353	3	0.0500	0.99	15	
2-Fluorobiphenyl		1.2971	1.2358	1.3382	1.3176	1.2191	0.9311	AVRG	R		0.817553		ng	1.2232	12	0.0500	0.99	15	
2,4,6-Tribromophenol		0.1870	0.1924	0.2337	0.2720	0.2858		LINR	R	6.934640	3.339289		ng	0.2342	0.996	0.0500	0.99	15	
Terphenyl-d14		0.9802	1.0064	1.2198	1.2414	1.1280	0.9331	AVRG	R		0.921826		ng	1.0848	12	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA03 Run Name : 80ug/mL
Seqnum : 524285642011 Filename : vgg11 Injected : 16-JUL-2004 14:14
Calnum : 524285642001 Caldate : 16-JUL-2004 Caltype :
Standards: 04WS1163

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	72.76810	ng	-9	30	
Pyridine	80.00000	79.98490	ng	0	30	
Phenol	80.00000	73.86060	ng	-8	20	
Aniline	80.00000	69.72910	ng	-13	30	
bis(2-Chloroethyl)ether	80.00000	74.33190	ng	-7	30	
2-Chlorophenol	80.00000	75.36490	ng	-6	30	
1,3-Dichlorobenzene	80.00000	72.81370	ng	-9	30	
1,4-Dichlorobenzene	80.00000	72.57310	ng	-9	20	
Benzyl alcohol	80.00000	78.49880	ng	-2	30	
1,2-Dichlorobenzene	80.00000	70.46330	ng	-12	30	
2-Methylphenol	80.00000	67.89330	ng	-15	30	
bis(2-Chloroisopropyl) ether	80.00000	67.83710	ng	-15	30	
4-Methylphenol	80.00000	71.04730	ng	-11	30	
N-Nitroso-di-n-propylamine	80.00000	76.55830	ng	-4	30	
Hexachloroethane	80.00000	75.21190	ng	-6	30	
Nitrobenzene	80.00000	72.60250	ng	-9	30	
Isophorone	80.00000	73.55990	ng	-8	30	
2-Nitrophenol	80.00000	76.84300	ng	-4	20	
2,4-Dimethylphenol	80.00000	85.50370	ng	7	30	
bis(2-Chloroethoxy)methane	80.00000	71.54910	ng	-11	30	
Benzoic acid	80.00000	101.1511	ng	26	40	m
2,4-Dichlorophenol	80.00000	74.10350	ng	-7	20	
1,2,4-Trichlorobenzene	80.00000	75.32480	ng	-6	30	
Naphthalene	80.00000	73.93110	ng	-8	30	
4-Chloroaniline	80.00000	70.55260	ng	-12	30	
Hexachlorobutadiene	80.00000	72.21140	ng	-10	20	
4-Chloro-3-methylphenol	80.00000	78.19790	ng	-2	20	
2-Methylnaphthalene	80.00000	74.65260	ng	-7	30	
Hexachlorocyclopentadiene	80.00000	78.36880	ng	-2	40	
2,4,6-Trichlorophenol	80.00000	75.95100	ng	-5	20	
2,4,5-Trichlorophenol	80.00000	79.61460	ng	0	30	
2-Chloronaphthalene	80.00000	73.83470	ng	-8	30	
2-Nitroaniline	80.00000	71.78120	ng	-10	30	
Dimethylphthalate	80.00000	73.45750	ng	-8	30	
2,6-Dinitrotoluene	80.00000	73.72970	ng	-8	30	
Acenaphthylene	80.00000	74.42640	ng	-7	30	
3-Nitroaniline	80.00000	72.68850	ng	-9	30	
Acenaphthene	80.00000	74.09960	ng	-7	20	
2,4-Dinitrophenol	80.00000	72.95090	ng	-9	40	
4-Nitrophenol	80.00000	76.86750	ng	-4	40	
Dibenzofuran	80.00000	73.08390	ng	-9	30	
2,4-Dinitrotoluene	80.00000	72.01650	ng	-10	30	
Diethylphthalate	80.00000	74.55630	ng	-7	30	
Fluorene	80.00000	73.14900	ng	-9	30	
4-Chlorophenyl-phenylether	80.00000	74.08960	ng	-7	40	
4-Nitroaniline	80.00000	52.47520	ng	-34	30	v- ***
4,6-Dinitro-2-methylphenol	80.00000	76.24000	ng	-5	30	

!=warning -=low bias m=manual integration v=ICV

7/16/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : MSBNA03 Run Name : 80ug/mL
eqnum : 524285642011 Filename : vgg11 Injected : 16-JUL-2004 14:14
alnum : 524285642001 Caldate : 16-JUL-2004 Caltype :
tandards: 04WS1163

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	76.63900	ng	-4	20	
Azobenzene	80.00000	71.38160	ng	-11	30	
4-Bromophenyl-phenylether	80.00000	74.61160	ng	-7	30	
Hexachlorobenzene	80.00000	78.37140	ng	-2	30	
Pentachlorophenol	80.00000	82.97910	ng	4	20	
Phenanthrene	80.00000	73.58120	ng	-8	30	
Anthracene	80.00000	70.52770	ng	-12	30	
Carbazole	80.00000	54.49270	ng	-32	30	v- ***
Di-n-butylphthalate	80.00000	71.74140	ng	-10	30	
Fluoranthene	80.00000	72.76160	ng	-9	20	
Benzidine	80.00000	19.77740	ng	-75	40	v- *** NT
Pyrene	80.00000	73.10420	ng	-9	30	
Butylbenzylphthalate	80.00000	76.40350	ng	-4	30	
3,3'-Dichlorobenzidine	80.00000	62.88070	ng	-21	40	
Benzo(a)anthracene	80.00000	74.17050	ng	-7	30	
bis(2-Ethylhexyl)phthalate	80.00000	77.08630	ng	-4	30	
Chrysene	80.00000	73.64370	ng	-8	30	
Di-n-octylphthalate	80.00000	72.14520	ng	-10	20	
Benzo(b)fluoranthene	80.00000	77.64230	ng	-3	30	
Benzo(k)fluoranthene	80.00000	69.29250	ng	-13	30	
Benzo(a)pyrene	80.00000	74.14390	ng	-7	20	
Indeno(1,2,3-cd)pyrene	80.00000	69.84670	ng	-13	30	
Dibenz(a,h)anthracene	80.00000	76.80770	ng	-4	30	
Benzo(g,h,i)perylene	80.00000	61.03390	ng	-24	30	!v-
2-Fluorophenol	80.00000	73.08840	ng	-9	30	
Phenol-d5	80.00000	71.46760	ng	-11	30	
Nitrobenzene-d5	80.00000	72.65610	ng	-9	30	
2-Fluorobiphenyl	80.00000	75.98860	ng	-5	30	
2,4,6-Tribromophenol	80.00000	69.20070	ng	-13	30	
Terphenyl-d14	80.00000	72.44910	ng	-9	30	

ISTD (CCV=vgg03)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	127283	139971	9.97	7.18	7.18	0.00
Naphthalene-d8	467959	493131	5.38	8.71	8.71	0.00
Acenaphthene-d10	310622	326665	5.16	10.92	10.91	-0.01
Phenanthrene-d10	560710	588490	4.95	12.77	12.77	0.00
Chrysene-d12	517019	536690	3.80	16.76	16.76	0.00
Perylene-d12	400524	398018	-0.63	20.85	20.84	-0.01

7/16/04

/mcs 7/19/04

!=warning -=low bias m=manual integration v=ICV
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03 Run Name : IDF : 1.0
Seqnum : 524322155005 Filename : vha05 Injected : 10-AUG-2004 22:32
Calnum : 524285642001 Caldate : 16-JUL-2004 Caltype :
Standards: 04WS1380

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5827	0.6178	80.00000	84.81950	ng	6	30	0.0500	
Pyridine	1.4331	1.4258	80.00000	79.59260	ng	-1	30	0.0500	
Phenol	1.7360	1.7363	80.00000	80.01030	ng	0	20	0.0500	
Aniline	0.6791	0.7820	80.00000	92.11980	ng	15	30	0.0500	
bis(2-Chloroethyl)ether	1.0185	1.0114	80.00000	79.44790	ng	-1	30	0.0500	
2-Chlorophenol	1.3676	1.4087	80.00000	82.40380	ng	3	30	0.0500	
1,3-Dichlorobenzene	1.5356	1.5528	80.00000	80.89240	ng	1	30	0.0500	
1,4-Dichlorobenzene	1.5613	1.5906	80.00000	81.50150	ng	2	20	0.0500	
Benzyl alcohol	0.8963	0.9467	80.00000	84.50060	ng	6	30	0.0500	
1,2-Dichlorobenzene	1.4092	1.5250	80.00000	86.57290	ng	8	30	0.0500	
2-Methylphenol	1.0326	1.1701	80.00000	90.65610	ng	13	30	0.0500	
bis(2-Chloroisopropyl) ether	1.7529	1.7726	80.00000	80.89810	ng	1	30	0.0500	
4-Methylphenol	1.6451	1.7816	80.00000	86.63870	ng	8	30	0.0500	
N-Nitroso-di-n-propylamine	0.7842	0.8846	80.00000	90.24420	ng	13	30	0.0500	
Hexachloroethane	0.5608	0.5926	80.00000	84.54530	ng	6	30	0.0500	
Nitrobenzene	0.4279	0.4194	80.00000	78.40360	ng	-2	30	0.0500	
Isophorone	0.7805	0.7593	80.00000	77.82880	ng	-3	30	0.0500	
2-Nitrophenol	0.2212	0.2253	80.00000	81.48500	ng	2	20	0.0500	
2,4-Dimethylphenol	0.2976	0.3035	80.00000	81.57610	ng	2	30	0.0500	
bis(2-Chloroethoxy)methane	0.4612	0.4673	80.00000	81.04700	ng	1	30	0.0500	
Benzoic acid	0.1842	0.1397	80.00000	57.51530	ng	-28	40	0.0500	
2,4-Dichlorophenol	0.3373	0.3314	80.00000	78.59830	ng	-2	20	0.0500	
1,2,4-Trichlorobenzene	0.3647	0.3745	80.00000	82.13170	ng	3	30	0.0500	
Naphthalene	1.0892	1.0862	80.00000	79.77790	ng	0	30	0.0500	
4-Chloroaniline	0.4445	0.4714	80.00000	84.84160	ng	6	30	0.0500	
Hexachlorobutadiene	0.2089	0.2085	80.00000	79.85790	ng	0	20	0.0500	
4-Chloro-3-methylphenol	0.3436	0.3306	80.00000	76.97150	ng	-4	20	0.0500	
2-Methylnaphthalene	0.7615	0.7538	80.00000	79.18680	ng	-1	30	0.0500	
Hexachlorocyclopentadiene	0.2936	0.2979	80.00000	81.18750	ng	1	40	0.0500	
2,4,6-Trichlorophenol	0.4073	0.4210	80.00000	82.69580	ng	3	20	0.0500	
2,4,5-Trichlorophenol	0.4226	0.4255	80.00000	80.54880	ng	1	30	0.0500	
2-Chloronaphthalene	1.0960	1.1906	80.00000	86.90290	ng	9	30	0.0500	
2-Nitroaniline	0.3867	0.3900	80.00000	80.69080	ng	1	30	0.0500	
Dimethylphthalate	1.3922	1.4020	80.00000	80.56170	ng	1	30	0.0500	
2,6-Dinitrotoluene	0.3440	0.3593	80.00000	83.54390	ng	4	30	0.0500	
Acenaphthylene	1.7730	1.8442	80.00000	83.21210	ng	4	30	0.0500	
3-Nitroaniline	0.3336	0.3725	80.00000	89.31810	ng	12	30	0.0500	
Acenaphthene	1.1330	1.0805	80.00000	76.29620	ng	-5	20	0.0500	
2,4-Dinitrophenol	0.2118	0.1921	80.00000	66.20350	ng	-17	40	0.0500	
4-Nitrophenol	0.1501	0.1296	80.00000	69.04190	ng	-14	40	0.0500	
Dibenzofuran	1.6377	1.7160	80.00000	83.82220	ng	5	30	0.0500	
2,4-Dinitrotoluene	0.4461	0.4418	80.00000	79.22130	ng	-1	30	0.0500	
Diethylphthalate	1.3099	1.3290	80.00000	81.16710	ng	1	30	0.0500	
Fluorene	1.3614	1.3758	80.00000	80.84420	ng	1	30	0.0500	
4-Chlorophenyl-phenylether	0.6922	0.6954	80.00000	80.36210	ng	0	40	0.0500	
4-Nitroaniline	0.2588	0.3185	80.00000	98.43670	ng	23	30	0.0500	!c+

!=warning +=high bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

8/11/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03 Run Name : IDF : 1.0
Seqnum : 524322155005 Filename : vha05 Injected : 10-AUG-2004 22:32
Calnum : 524285642001 Caldate : 16-JUL-2004 Caltype :
Standards: 04WS1380

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1540	0.1637	80.00000	76.39660	ng	-5	30	0.0500	
N-Nitrosodiphenylamine	0.5244	0.5352	80.00000	81.65070	ng	2	20	0.0500	
Azobenzene	0.7537	0.8405	80.00000	89.21820	ng	12	30	0.0500	
4-Bromophenyl-phenylether	0.2485	0.2697	80.00000	86.83140	ng	9	30	0.0500	
Hexachlorobenzene	0.2727	0.2869	80.00000	84.15510	ng	5	30	0.0500	
Pentachlorophenol	0.1856	0.1591	80.00000	68.55220	ng	-14	20	0.0500	
Phenanthrene	1.0973	1.1475	80.00000	83.65920	ng	5	30	0.0500	
Anthracene	1.0712	1.1121	80.00000	83.05450	ng	4	30	0.0500	
Carbazole	0.8022	0.9459	80.00000	94.32770	ng	18	30	0.0500	
Di-n-butylphthalate	1.2212	1.2224	80.00000	80.07880	ng	0	30	0.0500	
Fluoranthene	1.3058	1.3046	80.00000	79.92770	ng	0	20	0.0500	
Benzidine	0.0358	0.0960	80.00000	214.2951	ng	168	40	0.0500	c+ irf
Pyrene	1.3846	1.3739	80.00000	79.38240	ng	-1	30	0.0500	
Butylbenzylphthalate	0.6277	0.6360	80.00000	81.06060	ng	1	30	0.0500	
3,3'-Dichlorobenzidine	0.4816	0.4385	80.00000	66.90790	ng	-16	40	0.0500	
Benzo(a)anthracene	1.3613	1.3985	80.00000	82.18710	ng	3	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.8631	0.7326	80.00000	67.89920	ng	-15	30	0.0500	
Chrysene	1.2521	1.2741	80.00000	81.41020	ng	2	30	0.0500	
Di-n-octylphthalate	1.8422	1.8126	80.00000	71.90100	ng	-10	20	0.0500	
Benzo(b)fluoranthene	1.9008	2.2043	80.00000	83.74860	ng	5	30	0.0500	
Benzo(k)fluoranthene	1.4688	1.3933	80.00000	75.88460	ng	-5	30	0.0500	
Benzo(a)pyrene	1.3822	1.5057	80.00000	80.42040	ng	1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4913	1.6430	80.00000	88.13900	ng	10	30	0.0500	
Dibenz(a,h)anthracene	1.2716	1.4100	80.00000	88.70840	ng	11	30	0.0500	
Benzo(g,h,i)perylene	1.0817	1.2001	80.00000	88.76310	ng	11	30	0.0500	
2-Fluorophenol	1.2374	1.2223	80.00000	79.02150	ng	-1	30	0.0500	
Phenol-d5	1.6452	1.6198	80.00000	78.76380	ng	-2	30	0.0500	
Nitrobenzene-d5	0.4353	0.4336	80.00000	79.67900	ng	0	30	0.0500	
2-Fluorobiphenyl	1.2232	1.3126	80.00000	85.85190	ng	7	30	0.0500	
2,4,6-Tribromophenol	0.2342	0.2324	80.00000	69.01460	ng	-14	30	0.0500	
Terphenyl-d14	1.0848	1.0505	80.00000	77.47350	ng	-3	30	0.0500	

!=warning +=high bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 10-AUG-2004
Sequence: 524322155 (vha)
Instrument ID: MSBNA03

CCV Filename: vha05
Date Analyzed: 10-AUG-2004
Time Analyzed: 22:32

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	56524	6.36	216443	7.87	131753	10.04	227010	11.89	220115	15.41	182792	18.66
LOWER LIMIT	28262	5.86	108222	7.37	65877	9.54	113505	11.39	110058	14.92	91396	18.16
UPPER LIMIT	113048	6.86	432886	8.37	263506	10.54	454020	12.39	440230	15.92	365584	19.16

TYPE	SAMPLE	#												
CCV		005	56524	6.36	216443	7.87	131753	10.04	227010	11.89	220115	15.42	182792	18.66
BLANK	QC260755	006	73872	6.36	267798	7.86	157543	10.04	273648	11.87	283527	15.39	246672	18.63
LCS	QC260756	007	72438	6.36	273619	7.87	170040	10.05	288062	11.88	291740	15.41	246016	18.64
MSS	173857-001	008	69284	6.36	255663	7.86	151841	10.04	262799	11.87	278050	15.39	235901	18.63
MS	QC260757	009	74438	6.36	281575	7.87	171640	10.04	293719	11.89	297904	15.41	249806	18.64
MSD	QC260758	010	74966	6.36	281228	7.87	171404	10.04	291821	11.88	300497	15.40	248037	18.64
SAMPLE	173857-002	011	73067	6.35	267431	7.86	161951	10.04	272289	11.88	289825	15.39	249582	18.63
SAMPLE	173868-001	012	71063	6.36	265476	7.86	156436	10.04	269972	11.87	285887	15.39	244170	18.63
SAMPLE	173868-003	013	72509	6.36	266200	7.86	157136	10.04	273605	11.87	288796	15.39	249874	18.63
SAMPLE	173868-007	014	73782	6.36	270164	7.86	159412	10.04	278542	11.87	293628	15.39	251313	18.63
SAMPLE	173868-009	015	73618	6.36	272398	7.86	159687	10.04	274396	11.87	299029	15.39	255784	18.63
SAMPLE	173868-011	016	71769	6.36	264099	7.86	159382	10.04	268735	11.88	288780	15.39	248827	18.63
SAMPLE	173868-013	017	72552	6.36	265910	7.86	158890	10.04	266543	11.87	290351	15.39	248645	18.63
SAMPLE	173881-016	018	73552	6.35	269923	7.86	161118	10.04	270618	11.88	288004	15.40	245582	18.64
SAMPLE	173881-017	019	71986	6.36	263239	7.86	157012	10.04	271048	11.87	281067	15.39	241754	18.63
SAMPLE	173881-018	020	75133	6.35	273928	7.86	166255	10.04	279831	11.88	308866	15.40	264943	18.62
SAMPLE	173881-019	021	70873	6.36	260941	7.86	154201	10.04	264479	11.87	285025	15.39	239246	18.62
SAMPLE	173868-023	022	72265	6.36	267322	7.86	156827	10.04	276135	11.87	289376	15.39	245728	18.63
SAMPLE	173868-017	023	74379	6.36	272111	7.86	161681	10.04	278946	11.87	305049	15.39	258211	18.63

1, 2 MB LCS MSS/MS/MSD

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 524322155 Instrument: MSBNA03 HP GCMS BNA 03 Begun: 10-AUG-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	vha01	TUN	NP NL			10-AUG-2004 17:15	1.0	1.0			1	
002	vha02	CCV				10-AUG-2004 17:49	1.0	1.0	2	1	2 cc-	1:BZD=199.786
003	vha03	CCV				10-AUG-2004 18:30	1.0	1.0	1	1	2	1:BZD=199.054
004	vha04	TUN	NP NL			10-AUG-2004 22:15	1.0	1.0			1	
005	vha05	CCV				10-AUG-2004 22:32	1.0	1.0	1	1	2	1:BZD=214.295
006	vha06	BLANK	QC260755	93643	Soil	10-AUG-2004 23:11	1.0	0.03374	1	1	3	
007	vha07	LCS	QC260756	93643	Soil	10-AUG-2004 23:48	1.0	0.03382	2	1	3	
008	vha08	MSS	173857-001	93643	Soil	11-AUG-2004 00:25	1.0	0.03373	1	1	3	
009	vha09	MS	QC260757	93643	Soil	11-AUG-2004 01:02	1.0	0.03375	2	1	3	
010	vha10	MSD	QC260758	93643	Soil	11-AUG-2004 01:38	1.0	0.03294	2	1	3	
011	vha11	SAMPLE	173857-002	93643	Soil	11-AUG-2004 02:14	1.0	0.03351		1	3	
012	vha12	SAMPLE	173868-001	93643	Soil	11-AUG-2004 02:50	1.0	0.03344		1	3	
013	vha13	SAMPLE	173868-003	93643	Soil	11-AUG-2004 03:26	1.0	0.03374		1	3	
014	vha14	SAMPLE	173868-007	93643	Soil	11-AUG-2004 04:02	1.0	0.03365		1	3	
015	vha15	SAMPLE	173868-009	93643	Soil	11-AUG-2004 04:38	1.0	0.03346		1	3	
016	vha16	SAMPLE	173868-011	93643	Soil	11-AUG-2004 05:14	1.0	0.03376		1	3	
017	vha17	SAMPLE	173868-013	93643	Soil	11-AUG-2004 05:51	1.0	0.03376		1	3	
018	vha18	SAMPLE	173881-016	93643	Soil	11-AUG-2004 06:28	1.0	0.03348		1	3	
019	vha19	SAMPLE	173881-017	93643	Soil	11-AUG-2004 07:05	1.0	0.03332		1	3	
020	vha20	SAMPLE	173881-018	93643	Soil	11-AUG-2004 07:43	1.0	0.03334		1	3	
021	vha21	SAMPLE	173881-019	93643	Soil	11-AUG-2004 08:20	1.0	0.03357		1	3	
022	vha22	SAMPLE	173868-023	93643	Soil	11-AUG-2004 08:56	1.0	0.03376		1	3	
023	vha23	SAMPLE	173868-017	93643	Soil	11-AUG-2004 09:32	1.0	0.03353		1	3	

CCV: Ok
- Butylbenzylphthalate outside working limits - ND
ICAL: Ok except Benzidine - ND
ICV: 4-Nitroaniline ↓; Carbazole ↓; Butylbenzylphthalate ↓ but ND
- Benzo(g,h,i)perylene ↓ but outside working limits

Stds used: 1=04WS1200 2=04WS1380 3=04SS113
Flags used: --=low bias cc=CCV CCC failure

Analyst: _____ Date: 8/11/04

8/11/04

Page 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 524285642 Instrument: MSBNA03 HP GCMS BNA 03 Begun: 16-JUL-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	vgg01	TUN	NP NL			16-JUL-2004 08:42	1.0	1.0				1	
002	vgg02	TUN	NP NL			16-JUL-2004 08:55	1.0	1.0				1	
003	vgg03	CCV				16-JUL-2004 09:12	1.0	1.0	7		1	2 cc-cc+	
004	vgg04	ICAL	2ug/mL			16-JUL-2004 09:58	1.0	1.0				3	
005	vgg05	ICAL	10ug/mL			16-JUL-2004 10:33	1.0	1.0				4	
006	vgg06	ICAL	20ug/mL			16-JUL-2004 11:12	1.0	1.0				5	
007	vgg07	ICAL	50ug/mL /mcw 7/19/04			16-JUL-2004 11:49	1.0	1.0				6	
008	vgg08	ICAL	80ug/mL			16-JUL-2004 12:25	1.0	1.0				2	
009	vgg09	ICAL	120ug/mL			16-JUL-2004 13:00	1.0	1.0				7	
010	vgg10	ICAL	160ug/mL			16-JUL-2004 13:38	1.0	1.0				8	
011	vgg11	ICV	80ug/mL			16-JUL-2004 14:14	1.0	1.0	3		1	9	
012	vgg12	TUN	DFTPP 50NG			16-JUL-2004 18:24	1.0	1.0				1	
013	vgg13	CCV	CCV 80NG			16-JUL-2004 18:39	1.0	1.0	1		1	2	
014	vgg14	SAMPLE	173400-001	92868	Water	16-JUL-2004 19:17	10.0	0.0009709		2	1	10	# 9.5SSL
015	vgg15	SAMPLE	173400-003	92868	Water	16-JUL-2004 19:54	10.0	0.0009804		3	1	10	# 12.5SSL
016	vgg16	SAMPLE	173400-004	92868	Water	16-JUL-2004 20:30	10.0	0.0009709		1	1	10	# 2SSL
017	vgg17	SAMPLE	173400-005	92868	Water	16-JUL-2004 21:09	10.0	0.0009524			1	10	
018	vgg18	SAMPLE	173400-006	92868	Water	16-JUL-2004 21:45	10.0	0.0009709		1	1	10	RR # 5SSL / # 4.5SL
019	vgg19	SAMPLE	173400-007	92868	Water	16-JUL-2004 22:21	10.0	0.0009615		1	1	10	# 3SSL = (NP)
020	vgg20	SAMPLE	173400-008	92868	Water	16-JUL-2004 22:57	10.0	0.0009524			1	10	
021	vgg21	SAMPLE	173400-009	92868	Water	16-JUL-2004 23:34	10.0	0.0009615			1	10	
022	vgg22	SAMPLE	173400-010	92868	Water	17-JUL-2004 00:12	10.0	0.0009804		1	1	10	# 1SSL
023	vgg23	SAMPLE	173400-011	92868	Water	17-JUL-2004 00:48	10.0	0.0009709		2	1	10	# 1.25SSL
024	vgg24	SAMPLE	173400-012	92868	Water	17-JUL-2004 01:25	10.0	0.0009524			1	10	
025	vgg25	SAMPLE	173400-013	92868	Water	17-JUL-2004 02:01	10.0	0.0009901		3	1	10	RR 20X 1:NNSPR=171.381
026	vgg26	SAMPLE	173449-001	92890	Soil	17-JUL-2004 02:37	1.0	0.03348			1	10	
027	vgg27	SAMPLE	173449-002	92890	Soil	17-JUL-2004 03:13	1.0	0.03295			1	10	

8270 ICAL
* ICAL = Benzidine failed = (NT)
* ICV = 4-Nitroaniline ↓ / Carbazole ↓ / Benzidine ↓ / Benzo(ghi)perylene ↓ warning limit

Stds used: 1=04WS1200 2=04WS1168 3=04WS1164 4=04WS1165 5=04WS1166 6=04WS1167 7=04WS1169 8=04WS1170 9=04WS1163 10=04SS113
Flags used: +=high bias -=low bias cc=CCV CCC failure

* CCV VGGB = Benzidine failed = (NT)

Analyst: UH Date: 7/19/04

REPORTING SUMMARY FOR 173857 8270 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | NPBCDDBDMBMNHNI | NDBBDTNCHCMHTTCN | DADNADNDDDFCNDN | ABHPPADFPBDBCBDBBBID | NHILCCZCEIENCOS | TMZECCALC4TCCCNO | MCNOCNTBNELPON | NZPCCHNNLYBBZHIN | ZZZNB | SESPBBLBPSPSL2O | PPACPBPABMNCPPP | 2PNT2NPPFTP | P24SBPLPATBAR | PZARSOBKAPA | MN2HZZAZH2HPEB | PH2CE21HNU3PP | 22HAHP2APP2H | 2H | EA6PZEB | NHP | DAY2PFFP1H | | |

Curtis & Tompkins Laboratories Sample Preparation Summary 10-AUG-2004 21:57

Batch Number : 93643
Date Extracted: 10-AUG-2004
Extracted by : Jennifer R Dell
Prep Method : 3550

Analysis : 8270
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1487B
Spike #2 ID : 04WS1454C
Spike #3 ID : 04WS1421B
SOP Version : 8270s_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173857-001			Treadwell & Rollo	Soil	29.65	g	1	0.033727	1		1	0	0	8270		mss
173857-002			Treadwell & Rollo	Soil	29.84	g	1	0.033512	1		1	0	0	8270		
173868-001			TRC Environmental Solutions, I	Soil	29.9	g	1	0.033445	1		1	0	0	8270		
173868-003			TRC Environmental Solutions, I	Soil	29.64	g	1	0.033738	1		1	0	0	8270		
173868-005			TRC Environmental Solutions, I	Soil	29.57	g	1	0.033818	1		1	0	0	8270		
173868-007			TRC Environmental Solutions, I	Soil	29.72	g	1	0.033647	1		1	0	0	8270		
173868-009			TRC Environmental Solutions, I	Soil	29.89	g	1	0.033456	1		1	0	0	8270		
173868-011			TRC Environmental Solutions, I	Soil	29.62	g	1	0.033761	1		1	0	0	8270		
173868-013			TRC Environmental Solutions, I	Soil	29.62	g	1	0.033761	1		1	0	0	8270		
173868-015			TRC Environmental Solutions, I	Soil	29.6	g	1	0.033784	1		1	0	0	8270		
173868-017			TRC Environmental Solutions, I	Soil	29.82	g	1	0.033535	1		1	0	0	8270		
173868-019			TRC Environmental Solutions, I	Soil	29.97	g	1	0.033367	1		1	0	0	8270		
173868-021			TRC Environmental Solutions, I	Soil	29.55	g	1	0.033841	1		1	0	0	8270		
173868-023			TRC Environmental Solutions, I	Soil	29.62	g	1	0.033761	1		1	0	0	8270		
173868-025			TRC Environmental Solutions, I	Soil	30.29	g	1	0.033014	1		1	0	0	8270		
173868-031			TRC Environmental Solutions, I	Soil	30.17	g	1	0.033146	1		1	0	0	8270		
173881-016			Blasland, Bouck & Lee	Soil	29.87	g	1	0.033478	1		1	0	0	8270		
173881-017			Blasland, Bouck & Lee	Soil	30.01	g	1	0.033322	1		1	0	0	8270		
173881-018			Blasland, Bouck & Lee	Soil	29.99	g	1	0.033344	1		1	0	0	8270		
173881-019			Blasland, Bouck & Lee	Soil	29.79	g	1	0.033568	1		1	0	0	8270		
QC260755	MB			Soil	29.64	g	1	0.033738	1		1	0	0	8270		
QC260756	LCS			Soil	29.57	g	1	0.033818	1		1	1	1	8270		
QC260757	MS	of 173857-001		Soil	29.63	g	1	0.033750	1		1	1	1	8270		
QC260758	MSD	of 173857-001		Soil	30.36	g	1	0.032938	1		1	1	1	8270		

Prep Chemist: Jennifer R Dell Reviewed By: [illegible] Date: 8/10/04

Relinquished By: Jennifer R Dell Received By: [illegible] Date: 08/10/04

Curtis & Tompkins, Ltd. **8270 SOIL PREP LOG**

LIMS Batch No: 931643
LIMS Analysis 8270
Extracted by: JRD
Date Extracted: 8/10/04

Extraction Method:
- ☒ EPA 3550b Sonication
- ☐ EPA 3540c Soxhlet
- ☐ Other _____

Cleanup Method (if necessary):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel
- ☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
173857-001	29.65	1.0		MSS
↓ -002	29.84			
173868-001	29.90			
-003	29.64			
-005	29.57			
-007	29.72			
-009	29.89			
-011	29.62			
-013	29.62			
-015	29.60			
-017	29.82			
-019	29.97			
-021	29.55			
-023	29.62			leaky column
-025	30.29			
↓ -031	30.17			
173881-016	29.87			
-017	30.01			
-018	29.99			
↓ -019	29.79			
MB QC260755	29.64			
LCS 56	29.57			
MS 57	29.63			
MSD ↓ 58	30.36	↓		
		JRD 8/10/04		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM433 10410	JRD 8/10/04
Samples were dried with baked, CH_2Cl_2-rinsed ~~granular~~ cake Na_2SO_4	JTB A17H50	
1.0 mL of surrogate solution was added to all samples	OAWS1487B	
1.0 mL of matrix spiking solution was added to all spikes	OAWS1454C/OAWS1421B	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM44199	
Acetone	EM44179	
Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	JTB A17H50	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	
Concentrated to final volumes as noted above	✓	↓

Jennifer L Dell 8/10/04
Extraction Chemist / Date

Continued from page —
Continued on page —

Ann Marie Cox 8/10/04
Reviewed by / Date

6
PROJECT SOIL ALIQUOT

Notebook No. BK1979
Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
173857-001A	29.65	8270	MSS
-002	29.84		
	~~29.90~~ JM 8/10/04		
173868-001A	29.90	8270	
-003	29.64		
-005	29.57		
-007	29.72		
-009	29.89		
-011	29.62		
-013	29.62		
-015	29.60		
-017	29.82		
-019	29.97		
-021	29.55		
-023	29.62		
-025	30.29		
-03	30.17		
173881-016A	29.87	8270	
-017	30.01		
-018	29.99		
-019	29.79		
MB	29.64		EM43310410
LCS	29.57		
MS	29.69		173857-001A
MSD	30.36		
173881-021A	30.37	8270	
-022	30.33		MSS
-023	29.89		
MB	29.76		EM43310410
LCS	29.72		
MS	30.39		173881-022A ~~173857-001~~ JM 8/10/04
MSD	29.77		

Continued on Page

JM 8/10/04
Read and Understood By

Signed 8/10/04 Date Signed Date

EPA 8270	BNA_01	BNA_02	BNA_03	BNA_04	BNA_05
Soil MDLs (ug/Kg)	4/28/03	4/16/03	4/25/03	4/16/03	4/24/03
Acenaphthene	23	23	14	28	10
Acenaphthylene	27	11	14	27	22
Anthracene	28	32	14	37	10
Azobenzene	19	26	29	46	28
Benzo(a)anthracene	23	28	11	26	29
Benzo(a)pyrene	21	32	11	32	9.8
Benzo(b)fluoranthene	21	26	12	28	35
Benzo(k)fluoranthene	27	32	9.2	35	10
Benzo(g,h,i)perylene	24	28	14	28	10
Benzoic acid	49	210	200	150	250
Benzyl alcohol	31	26	18	35	26
Bis(2-chloroethoxy)methane	30	25	22	37	24
Bis(2-chloroethyl)ether	37	37	24	46	23
Bis(2-chloroisopropyl)ether	34	24	21	37	28
Bis(2-ethylhexyl)phthalate	26	41	28	27	37
4-Bromophenyl phenyl ether	40	29	25	47	25
Butylbenzylphthalate	31	28	28	20	34
4-Chloroaniline	30	25	36	20	31
4-Chloro-3-methylphenol	38	27	35	41	27
2-Chloronaphthalene	29	22	20	28	18
2-Chlorophenol	32	32	22	34	25
4-Chlorophenyl phenyl ether	31	26	25	46	25
Chrysene	28	27	13	28	11
Dibenz(a,h)anthracene	21	33	14	27	10
Dibenzofuran	22	30	24	33	24
1,2-Dichlorobenzene	37	23	25	32	18
1,3-Dichlorobenzene	27	24	24	37	20
1,4-Dichlorobenzene	28	27	26	30	20
3,3'-Dichlorobenzidine	44	31	49	21	47
2,4-Dichlorophenol	31	24	25	38	28
Diethylphthalate	24	29	27	36	27
2,4-Dimethylphenol	63	51	72	81	64
Dimethylphthalate	34	28	26	37	26
Di-n-butylphthalate	33	26	37	42	31
4,6-Dinitro-2-methylphenol	240	230	230	360	260

EPA 8270 (continued)	**BNA_01**	**BNA_02**	**BNA_03**	**BNA_04**	**BNA_05**
Soil MDLs (ug/Kg)	4/28/03	4/16/03	4/25/03	4/16/03	4/24/03
2,4-Dinitrophenol	170	220	200	210	32
2,4-Dinitrotoluene	28	43	21	41	28
2,6-Dinitrotoluene	29	25	32	26	27
Di-n-octylphthalate	21	33	29	22	31
Fluoranthene	31	31	12	48	13
Fluorene	21	30	15	30	11
Hexachlorobenzene	24	25	25	43	24
Hexachlorobutadiene	29	32	23	42	24
Hexachlorocyclopentadiene	30	31	110	85	30
Hexachloroethane	26	26	24	32	19
Indeno(1,2,3-c,d)pyrene	31	31	14	24	9.7
Isophorone	19	27	18	30	21
2-Methylnaphthalene	27	26	24	33	22
2-Methylphenol	26	36	25	45	21
4-Methylphenol (coelutes w/ 3	27	36	25	38	24
Naphthalene	24	30	22	33	20
2-Nitroaniline	25	34	8.8	32	28
3-Nitroaniline	21	20	16	18	13
4-Nitroaniline	33	28	30	31	21
Nitrobenzene	31	41	20	34	27
2-Nitrophenol	27	24	26	44	21
4-Nitrophenol	25	36	36	46	39
n-Nitrosodimethylamine	41	41	22	36	24
n-Nitrosodiphenylamine	23	17	34	44	26
n-Nitrosodi-n-propylamine	24	25	20	25	21
Pentachlorophenol	32	24	47	43	43
Phenanthrene	24	27	13	40	10
Phenol	32	34	28	34	22
Pyrene	28	21	11	29	9.9
1,2,4-Trichlorobenzene	20	33	22	36	24
2,4,5-Trichlorophenol	20	43	33	40	29
2,4,6-Trichlorophenol	30	31	29	35	27

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 524322155008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha08	Batchnum	: 93643	Injected	: 11-AUG-2004 00:25
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Prep: 29.65 g --> 1.0 ml = 0.03373 ml/g PDF

Analyte	Result	RTS	RL	B=vha06	Flags
N-Nitrosodimethylamine	ND		340		u
Phenol	ND		340		u
bis(2-Chloroethyl)ether	ND		340		u
2-Chlorophenol	ND		340		u
1,3-Dichlorobenzene	ND		340		u
1,4-Dichlorobenzene	ND		340		u
Benzyl alcohol	ND		340		u
1,2-Dichlorobenzene	ND		340		u
2-Methylphenol	ND		340		u
bis(2-Chloroisopropyl) ether	ND		340		u
4-Methylphenol	ND		340		u
N-Nitroso-di-n-propylamine	ND		340		u
Hexachloroethane	ND		340		u
Nitrobenzene	ND		340		u
Isophorone.....	~~540~~ (ND)	-0.311	340		u x
2-Nitrophenol	ND		670		u
2,4-Dimethylphenol	ND		340		u
Benzoic acid	ND		1700		u
bis(2-Chloroethoxy)methane	ND		340		u
2,4-Dichlorophenol	ND		340		u
1,2,4-Trichlorobenzene	ND		340		u
Naphthalene	ND		340		u
4-Chloroaniline	ND		340		u
Hexachlorobutadiene	ND		340		u
4-Chloro-3-methylphenol	ND		340		u
2-Methylnaphthalene	ND		340		u
Hexachlorocyclopentadiene	ND		1700		u
2,4,6-Trichlorophenol	ND		340		u
2,4,5-Trichlorophenol	ND		340		u
2-Chloronaphthalene	ND		340		u
2-Nitroaniline	ND		670		u
Dimethylphthalate	ND		340		u
Acenaphthylene	ND		340		u
2,6-Dinitrotoluene.....	~~520~~ (ND)	0.195	340		u x
3-Nitroaniline	ND		670		u
Acenaphthene	ND		670		u
2,4-Dinitrophenol	ND		1700		u
4-Nitrophenol	ND		670		u
Dibenzofuran	ND		340		u
2,4-Dinitrotoluene.....	~~400~~ (ND)	-0.291	340		u x
Diethylphthalate	ND		340		u

-=low bias u=use v=ICV x=false positive

Analyst: [illegible] Date: 8/20/04 Reviewer: [illegible] Date: 8/20/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 524322155008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha08	Batchnum	: 93643	Injected	: 11-AUG-2004 00:25
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Analyte	Result	RTS	RL	B=vha06	Flags
Fluorene	ND		340		u
4-Chlorophenyl-phenylether	ND		340		u
4-Nitroaniline	ND		670		u v-
4,6-Dinitro-2-methylphenol	ND		1700		u
N-Nitrosodiphenylamine	ND		340		u
Azobenzene	ND		340		u
4-Bromophenyl-phenylether	ND		340		u
Hexachlorobenzene	ND		340		u
Pentachlorophenol	ND		670		u
Phenanthrene	ND		340		u
Anthracene	ND		340		u
Di-n-butylphthalate	ND		340		u
Fluoranthene	ND		340		u
Pyrene	ND		340		u
Butylbenzylphthalate	ND		340		u
3,3'-Dichlorobenzidine	ND		670		u
Benzo(a)anthracene	ND		67		u
Chrysene	ND		340		u
bis(2-Ethylhexyl)phthalate	ND		340		u
Di-n-octylphthalate	ND		340		u
Benzo(b)fluoranthene	ND		67		u
Benzo(k)fluoranthene	ND		67		u
Benzo(a)pyrene	ND		67		u
Indeno(1,2,3-cd)pyrene	ND		67		u
Dibenz(a,h)anthracene	ND		67		u
Benzo(g,h,i)perylene	ND		340		u

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3373	2044	61	25-121	u
Phenol-d5	3373	1983	59	24-113	u
2,4,6-Tribromophenol	3373	1518	45	19-122	u
Nitrobenzene-d5	1686	966.1	57	23-120	u
2-Fluorobiphenyl	1686	1108	66	30-115	u
Terphenyl-d14	1686	853.4	51	18-137	u

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	69284	22.57	6.36	6.36	0.00
Naphthalene-d8	216443	255663	18.12	7.87	7.86	-0.01
Acenaphthene-d10	131753	151841	15.25	10.04	10.04	0.00
Phenanthrene-d10	227010	262799	15.77	11.89	11.87	-0.02
Chrysene-d12	220115	278050	26.32	15.42	15.39	-0.03
Perylene-d12	182792	235901	29.05	18.66	18.63	-0.03

-=low bias u=use v=ICV x=false positive

Analyst: _____ Date: 8/20/04 Reviewer: _____ Date: 8/20/04

Page 2 of 2

MSS

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 524322155008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha08	Batchnum	: 93643	Injected	: 11-AUG-2004 00:25
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Prep: 29.65 g --> 1.0 ml = 0.03373 ml/g PDF

Analyte	Result	RTS	RL	B=vha06	Flags
N-Nitrosodimethylamine	ND		340		
Phenol	ND		340		
bis(2-Chloroethyl)ether	ND		340		
2-Chlorophenol	ND		340		
1,3-Dichlorobenzene	ND		340		
1,4-Dichlorobenzene	ND		340		
Benzyl alcohol	ND		340		
1,2-Dichlorobenzene	ND		340		
2-Methylphenol	ND		340		
bis(2-Chloroisopropyl) ether	ND		340		
4-Methylphenol	ND		340		
N-Nitroso-di-n-propylamine	ND		340		
Hexachloroethane	ND		340		
Nitrobenzene	ND		340		
Isophorone.....	~~540~~ ND	-0.311	340		x
2-Nitrophenol	ND		670		
2,4-Dimethylphenol	ND		340		
Benzoic acid	ND		1700		
bis(2-Chloroethoxy)methane	ND		340		
2,4-Dichlorophenol	ND		340		
1,2,4-Trichlorobenzene	ND		340		
Naphthalene	ND		340		
4-Chloroaniline	ND		340		
Hexachlorobutadiene	ND		340		
4-Chloro-3-methylphenol	ND		340		
2-Methylnaphthalene	ND		340		
Hexachlorocyclopentadiene	ND		1700		
2,4,6-Trichlorophenol	ND		340		
2,4,5-Trichlorophenol	ND		340		
2-Chloronaphthalene	ND		340		
2-Nitroaniline	ND		670		
Dimethylphthalate	ND		340		
Acenaphthylene	ND		340		
2,6-Dinitrotoluene.....	~~520~~ ND	0.195	340		x
3-Nitroaniline	ND		670		
Acenaphthene	ND		670		
2,4-Dinitrophenol	ND		1700		
4-Nitrophenol	ND		670		
Dibenzofuran	ND		340		
2,4-Dinitrotoluene.....	~~400~~ ND	-0.291	340		x
Diethylphthalate	ND		340		

-=low bias v=ICV x=false positive

Analyst: _____ Date: 28/10/04 Reviewer: _____ Date: _____

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 524322155008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha08	Batchnum	: 93643	Injected	: 11-AUG-2004 00:25
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Analyte	Result	RTS	RL	B=vha06	Flags
Fluorene	ND		340		
4-Chlorophenyl-phenylether	ND		340		
4-Nitroaniline	ND		670		v-
4,6-Dinitro-2-methylphenol	ND		1700		
N-Nitrosodiphenylamine	ND		340		
Azobenzene	ND		340		
4-Bromophenyl-phenylether	ND		340		
Hexachlorobenzene	ND		340		
Pentachlorophenol	ND		670		
Phenanthrene	ND		340		
Anthracene	ND		340		
Di-n-butylphthalate	ND		340		
Fluoranthene	ND		340		
Pyrene	ND		340		
Butylbenzylphthalate	ND		340		
3,3'-Dichlorobenzidine	ND		670		
Benzo(a)anthracene	ND		340		
Chrysene	ND		340		
bis(2-Ethylhexyl)phthalate	ND		340		
Di-n-octylphthalate	ND		340		
Benzo(b)fluoranthene	ND		340		
Benzo(k)fluoranthene	ND		340		
Benzo(a)pyrene	ND		340		
Indeno(1,2,3-cd)pyrene	ND		340		
Dibenz(a,h)anthracene	ND		340		
Benzo(g,h,i)perylene	ND		340		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3373	2044	61	25-121	
Phenol-d5	3373	1983	59	24-113	
2,4,6-Tribromophenol	3373	1518	45	19-122	
Nitrobenzene-d5	1686	966.1	57	23-120	
2-Fluorobiphenyl	1686	1108	66	30-115	
Terphenyl-d14	1686	853.4	51	18-137	

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	69284	22.57	6.36	6.36	0.00
Naphthalene-d8	216443	255663	18.12	7.87	7.86	-0.01
Acenaphthene-d10	131753	151841	15.25	10.04	10.04	0.00
Phenanthrene-d10	227010	262799	15.77	11.89	11.87	-0.02
Chrysene-d12	220115	278050	26.32	15.42	15.39	-0.03
Perylene-d12	182792	235901	29.05	18.66	18.63	-0.03

-=low bias v=ICV x=false positive

Analyst: _____ Date: 08/11/04 Reviewer: _____ Date: 8/12/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D
Report Date: 11-Aug-2004 01:19

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 11-AUG-2004 00:25 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MSS,173857-001
Misc Info : 93643,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.023	4.992	(0.790)	129917	60.6134	60.6134
$ 4 Phenol-d5	99	5.964	5.965	(0.938)	167543	58.7933	58.7932
6 Aniline	66	5.964	6.048	(0.938)	8299	7.05564	7.0556
* 10 1,4-Dichlorobenzene-d4	152	6.358	6.359	(1.000)	69284	40.0000	
17 N-Nitroso-di-n-propylamine	70	7.020	6.876	(1.104)	10683	7.86521	~~7.8652~~
$ 19 Nitrobenzene-d5	82	7.020	7.042	(0.893)	79704	28.6446	28.6445
21 Isophorone	82	7.020	7.332	(0.893)	79704	15.9773	~~15.9773~~
* 28 Naphthalene-d8	136	7.859	7.870	(1.000)	255663	40.0000	
$ 37 2-Fluorobiphenyl	172	9.173	9.184	(0.913)	152595	32.8645	32.8645
40 Dimethylphthalate	163	10.042	9.733	(1.000)	32557	6.16051	~~6.1605~~
41 2,6-Dinitrotoluene	165	10.042	9.847	(1.000)	20112	15.4012	15.4011
* 44 Acenaphthene-d10	164	10.042	10.043	(1.000)	151841	40.0000	
51 Fluorene	166	11.026	10.716	(1.098)	2541	0.49170	~~0.4916~~
52 2,4-Dinitrotoluene	165	10.042	10.333	(1.000)	20112	11.8767	~~11.8766~~

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D
Report Date: 11-Aug-2004 01:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 57 2,4,6-Tribromophenol	330	11.036	11.047	(1.099)	43271	44.9999	44.9999
58 4-Bromophenyl-phenylether	248	11.026	11.296	(0.979)	2697	1.65213	~~1.6521~~
* 61 Phenanthrene-d10	188	11.874	11.886	(1.000)	262799	40.0000	
$ 69 Terphenyl-d14	244	13.830	13.842	(0.898)	190796	25.3021	25.3020
* 74 Chrysene-d12	240	15.393	15.415	(1.000)	278050	40.0000	
* 80 Perylene-d12	264	18.633	18.655	(1.000)	235901	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D
Report Date: 11-Aug-2004 01:19

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 11-AUG-2004 00:25 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MSS,173857-001
Misc Info : 93643,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

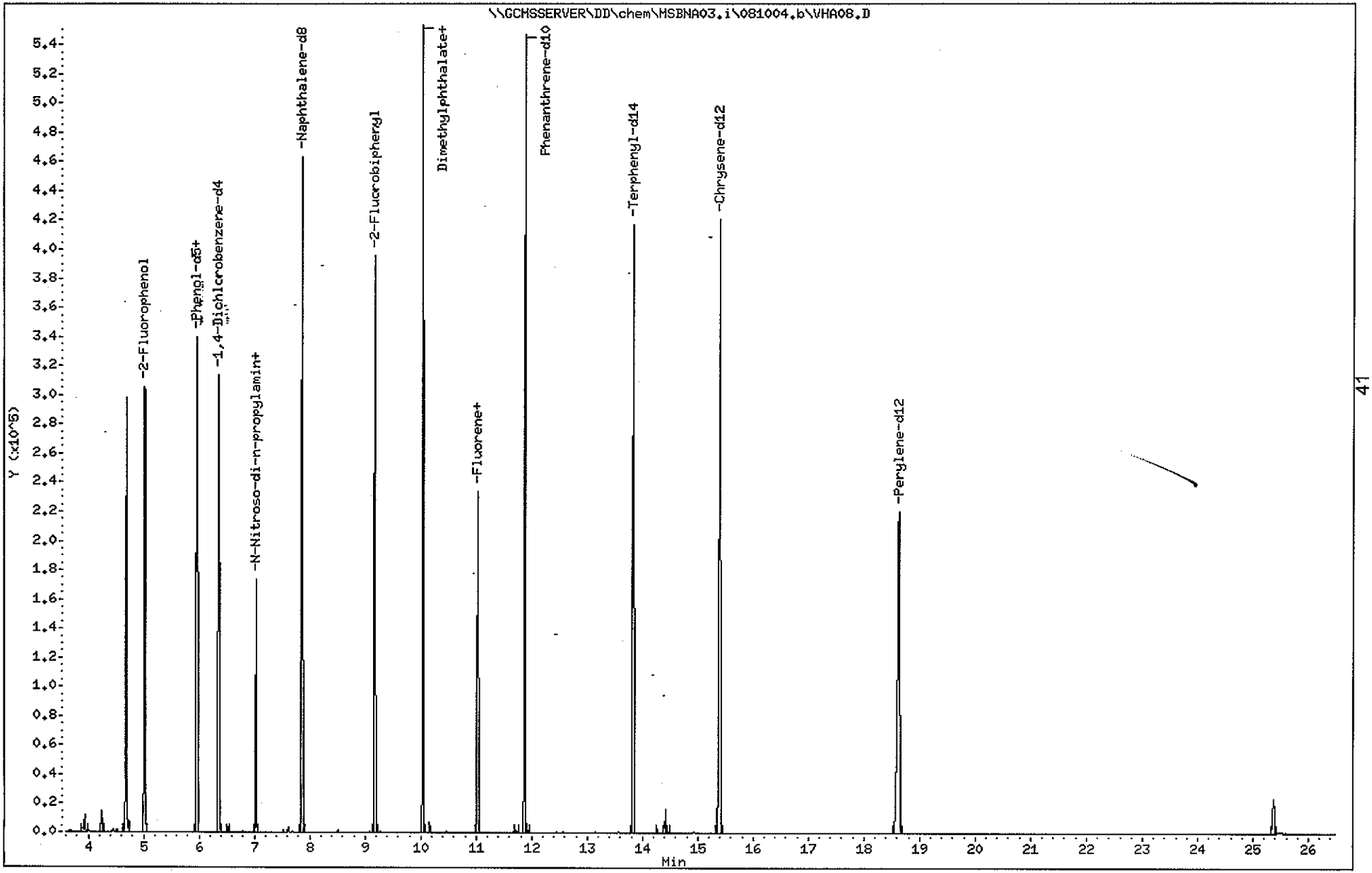
ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	6.358	402661	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-				CAS #: 123-42-2			
4.681	444806	44.1866483	44.1866	50	nbs75k.l	64274	10

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D
Date : 11-AUG-2004 00:25
Client ID: CURTIS&TOMPKINS
Sample Info: MSS,173857-001
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i

Operator: BVD
Column diameter: 0.25



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Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

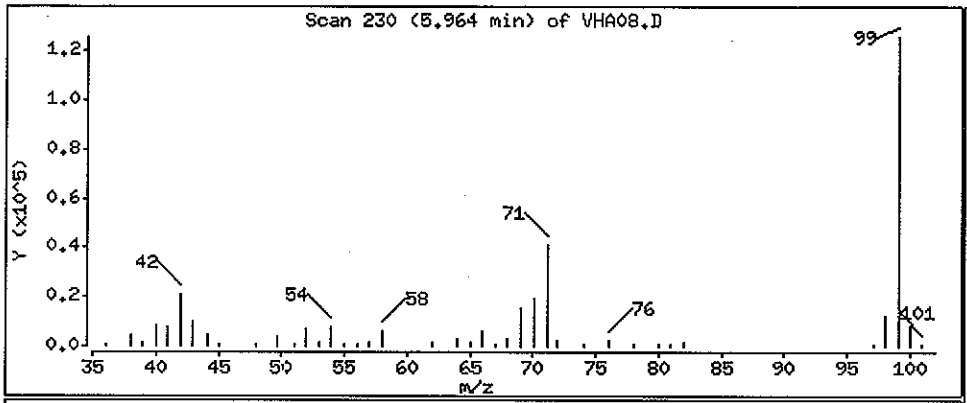
Operator: BVD

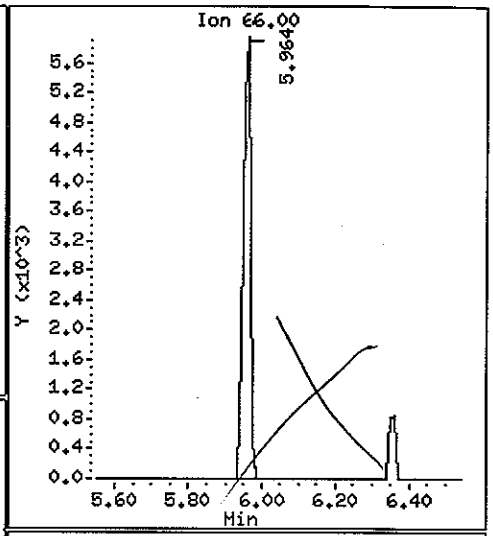
Column phase: Xti 5 x .5 u

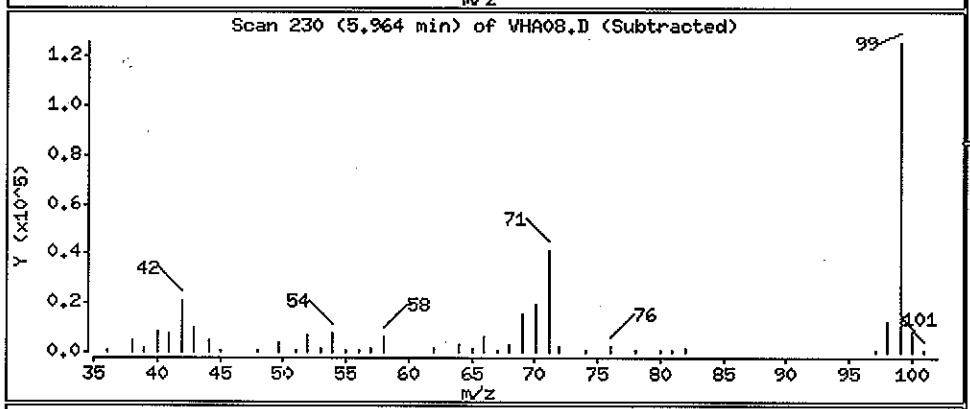
Column diameter: 0.25

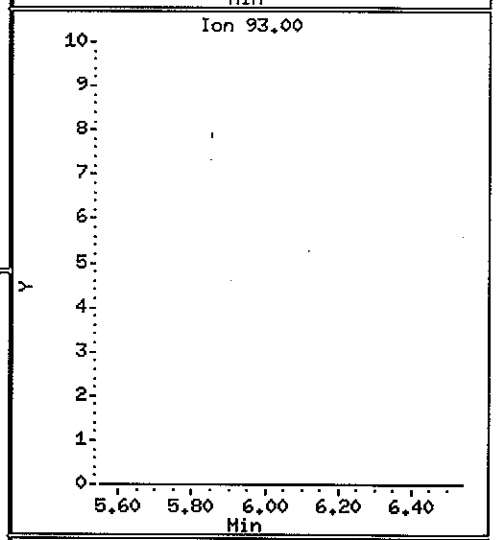
6 Aniline

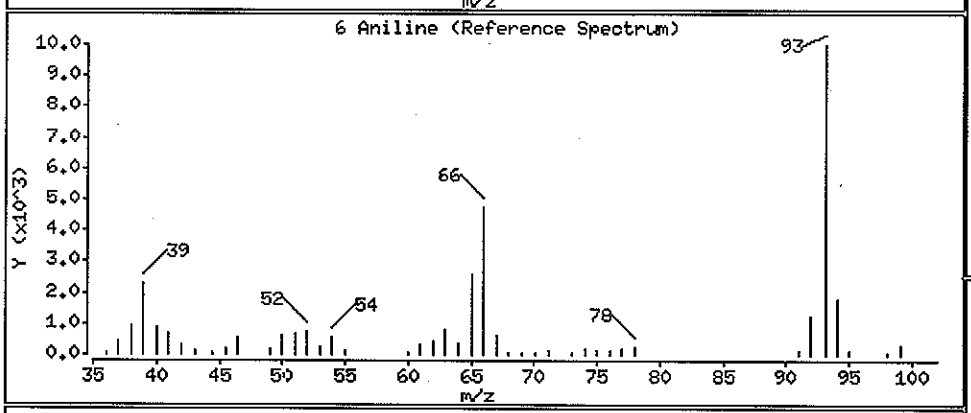
Concentration: 7.0556 ug/L

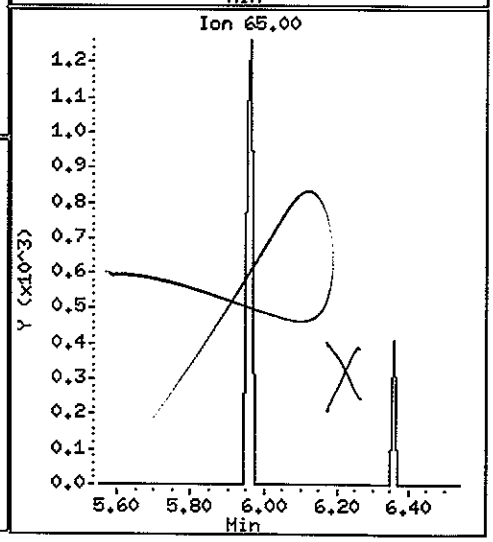


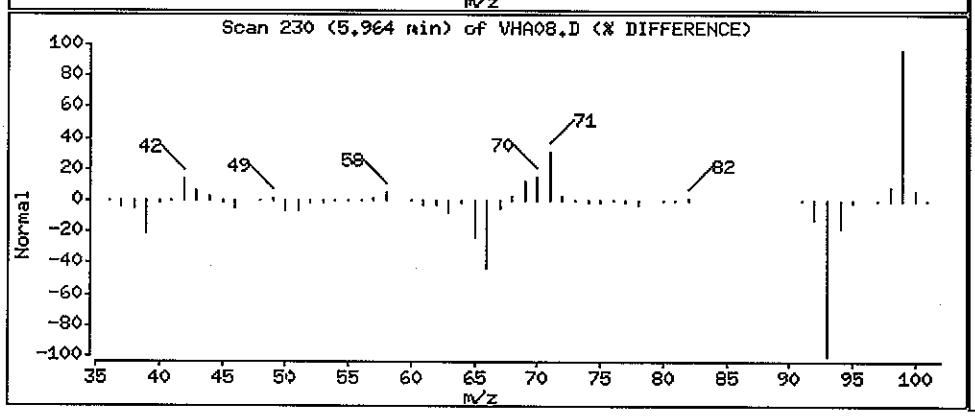












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

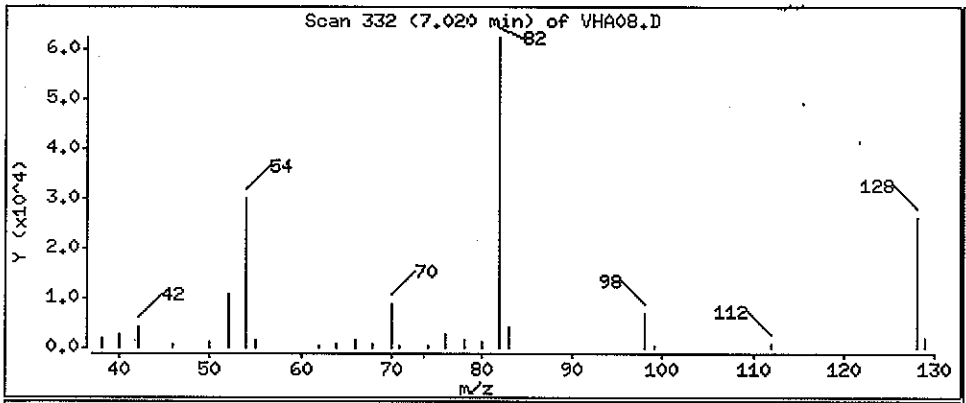
Operator: BVD

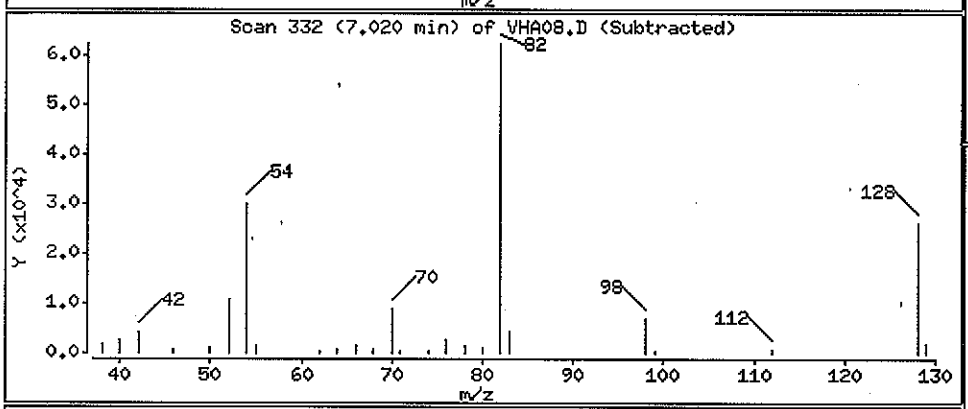
Column phase: Xti 5 x .5 u

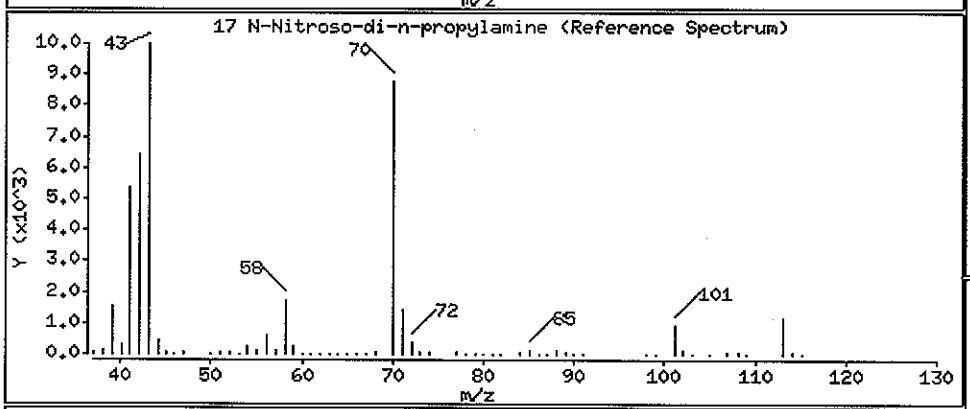
Column diameter: 0.25

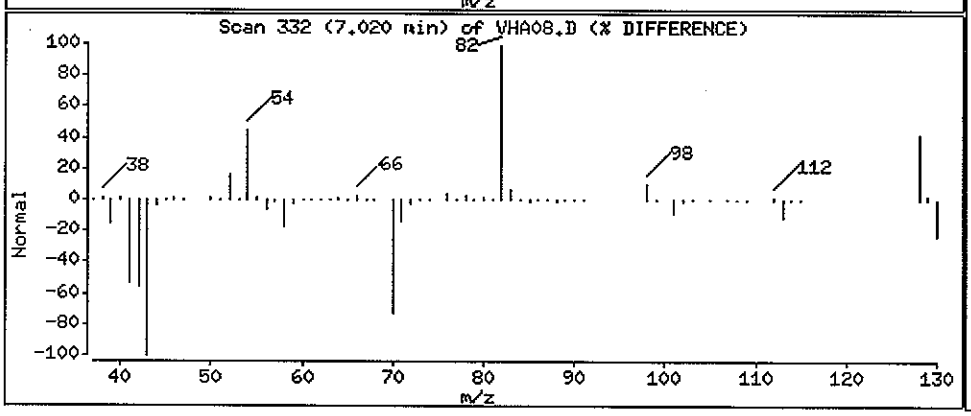
17 N-Nitroso-di-n-propylamine

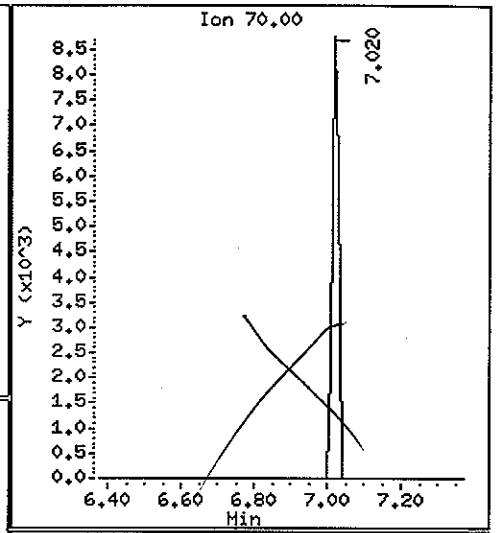
Concentration: 7.8652 ug/L

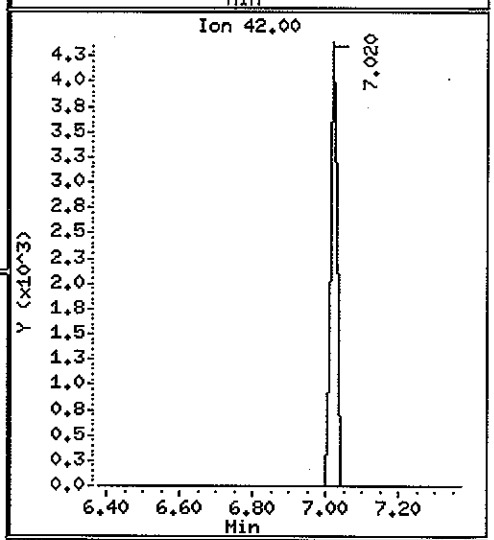


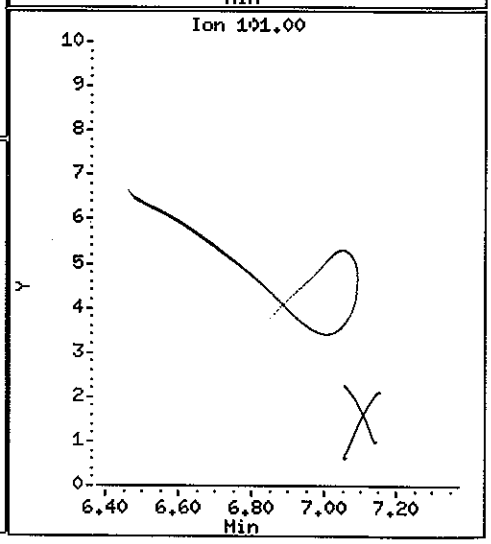












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

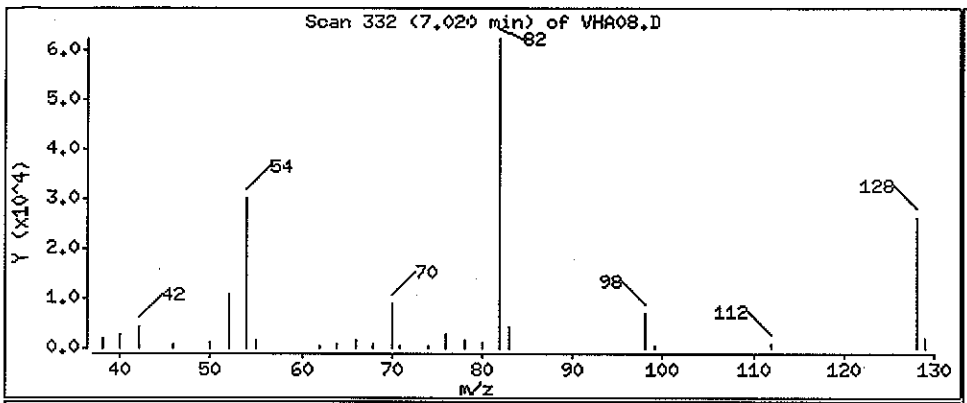
Operator: BVD

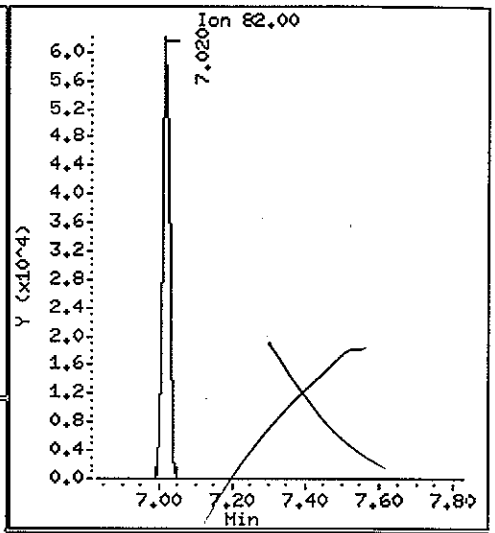
Column phase: Xti 5 x .5 u

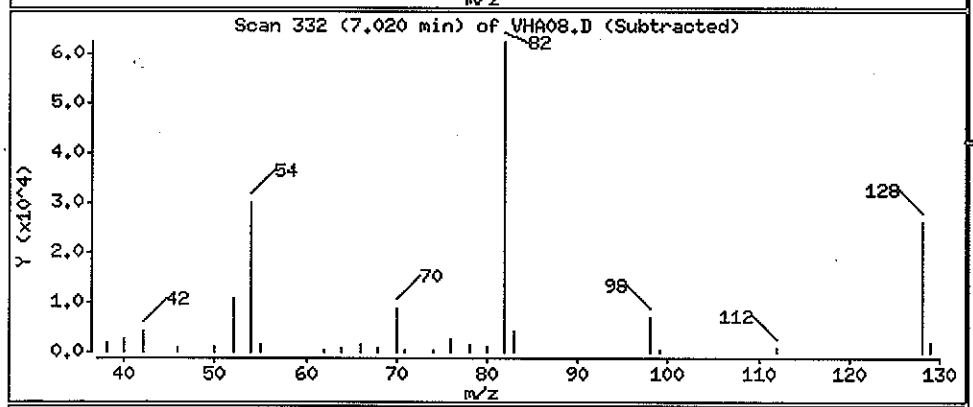
Column diameter: 0.25

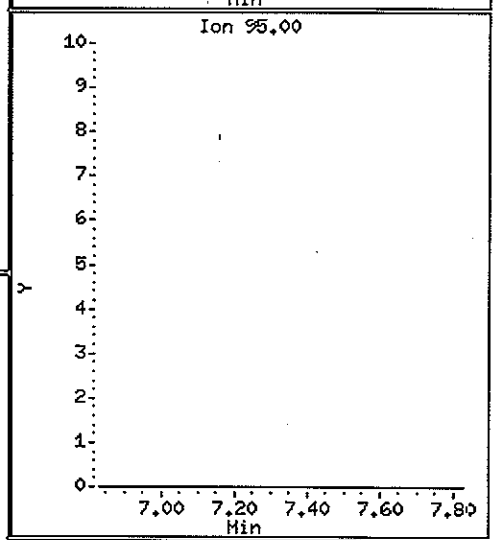
21 Isophorone

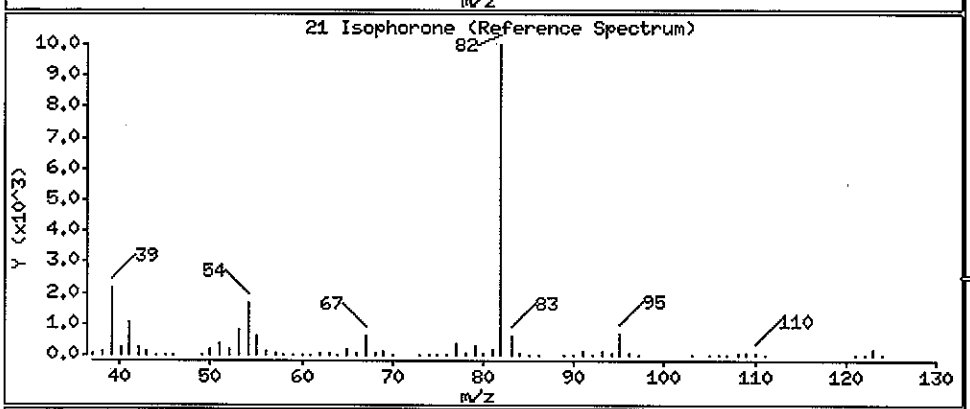
Concentration: 15.9773 ug/L

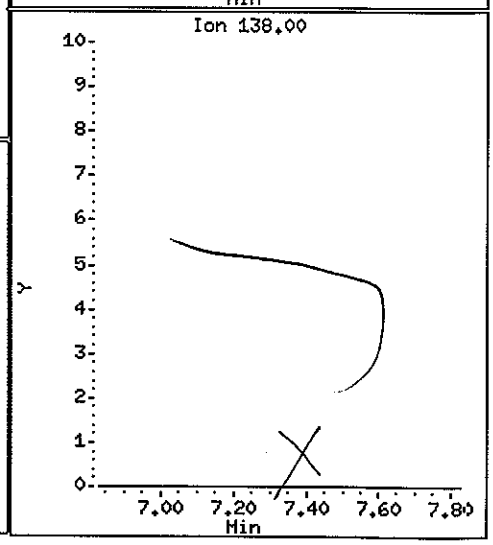


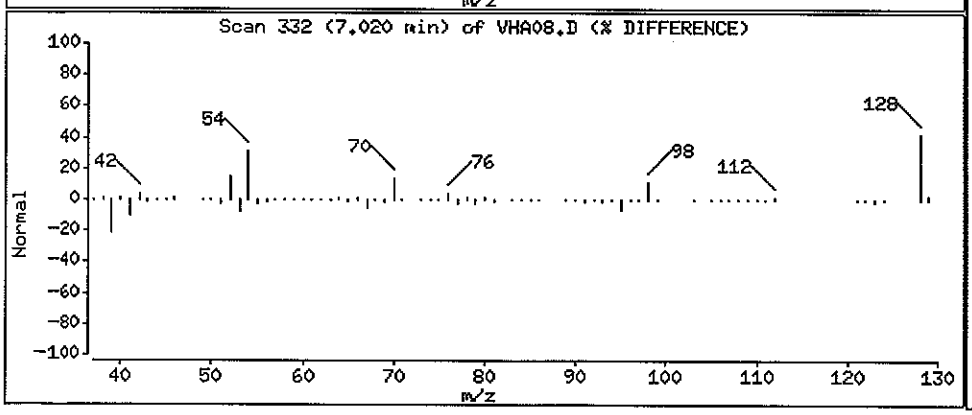












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

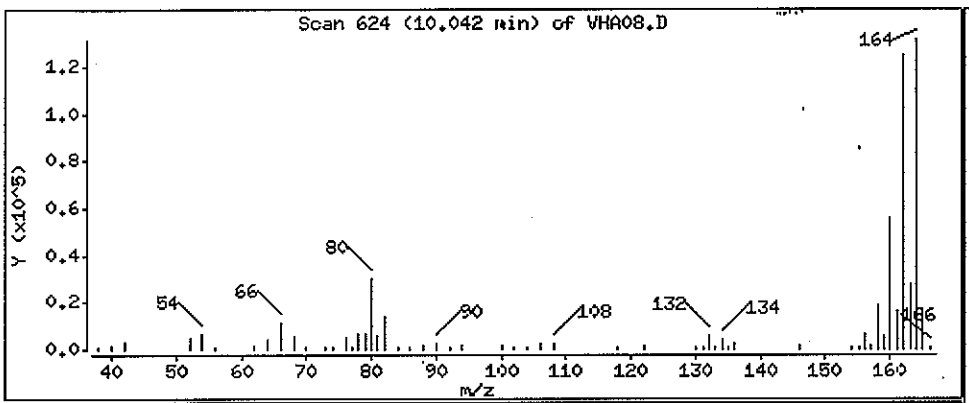
Operator: BVD

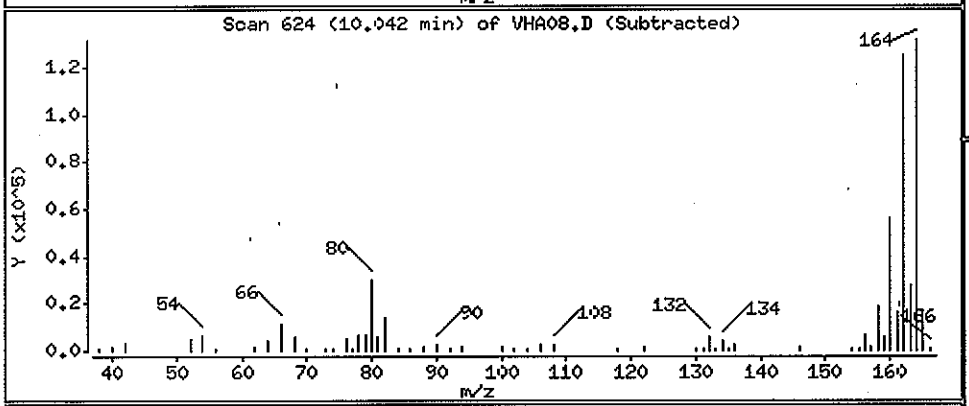
Column phase: Xti 5 x .5 u

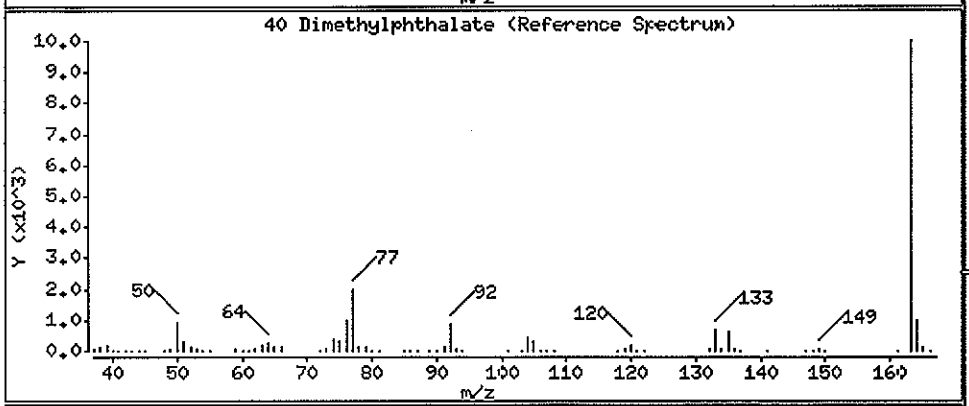
Column diameter: 0.25

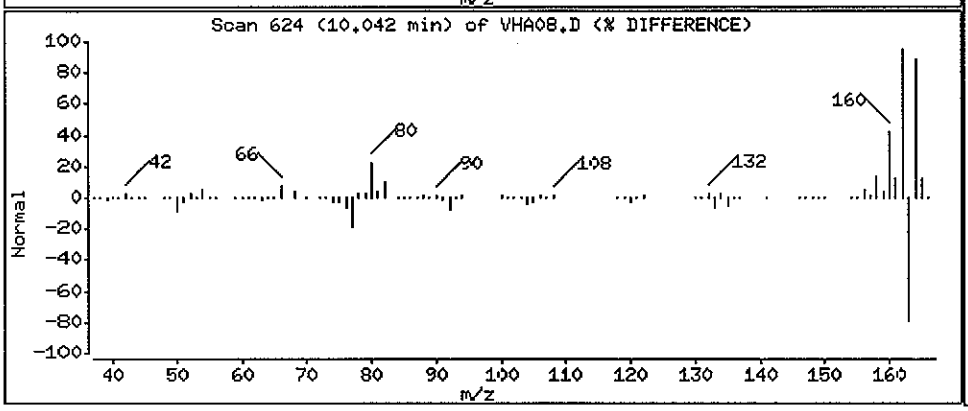
40 Dimethylphthalate

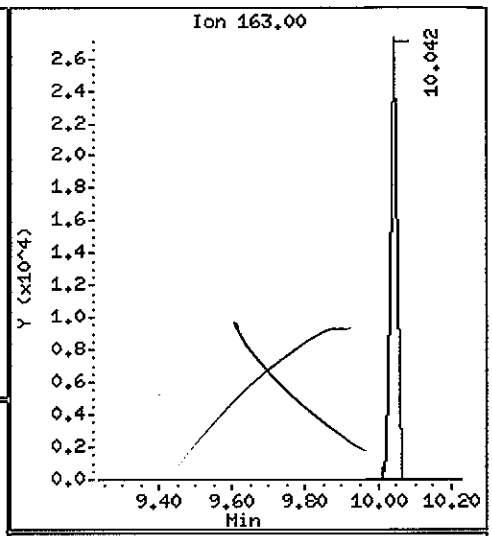
Concentration: 6.1605 ug/L

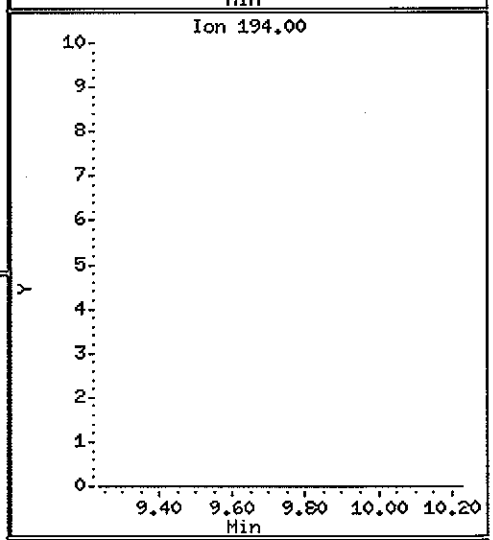


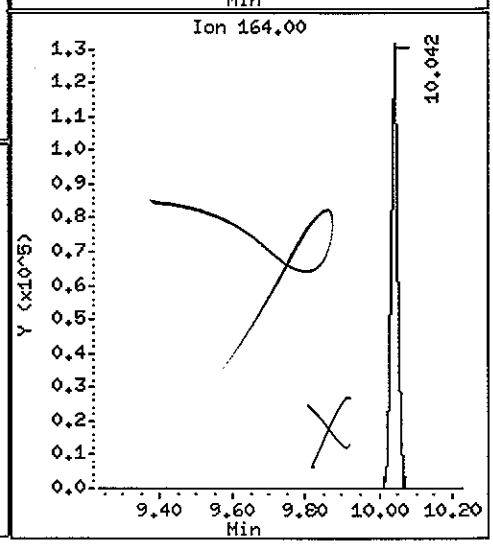












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

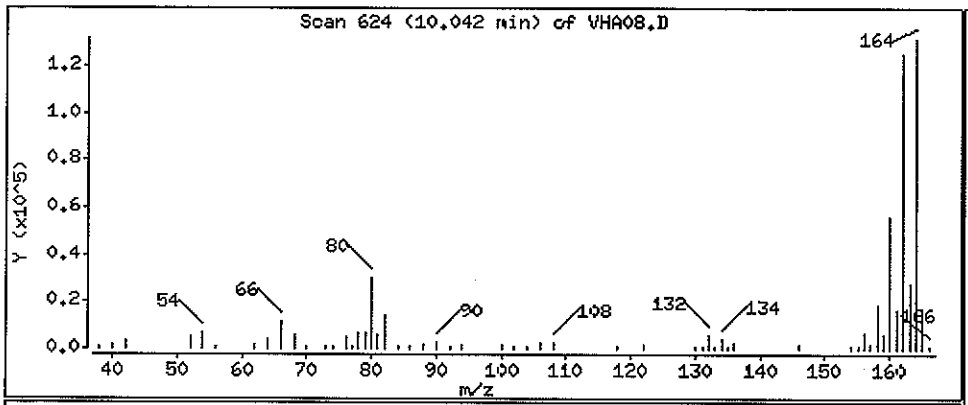
Operator: BVD

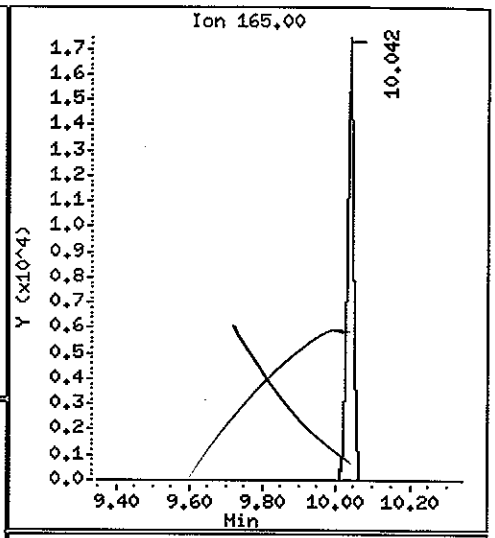
Column phase: Xti 5 x .5 u

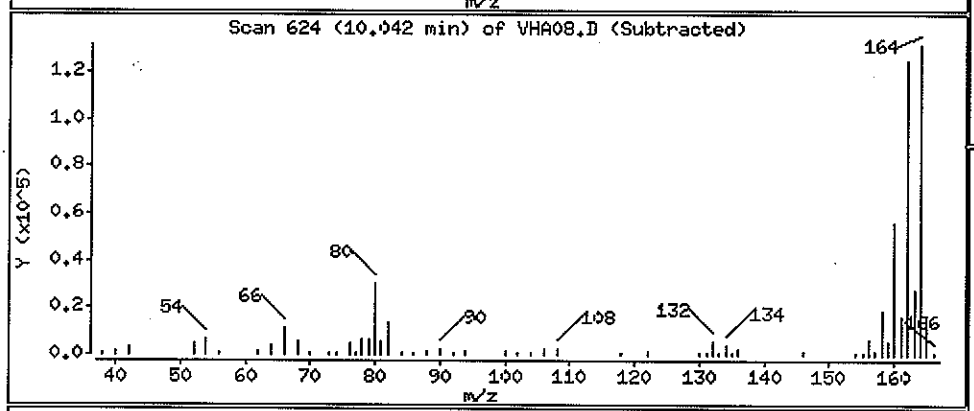
Column diameter: 0.25

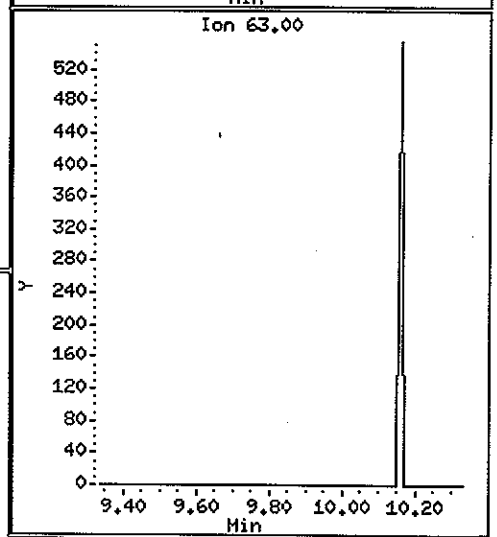
41 2,6-Dinitrotoluene

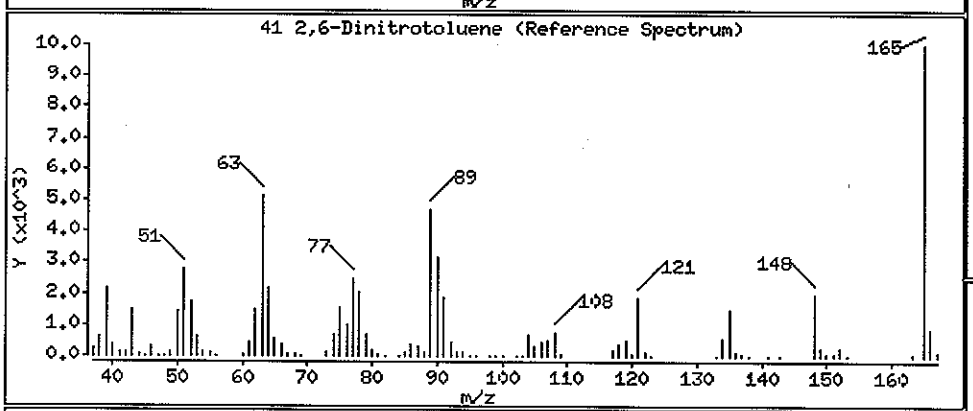
Concentration: 15.4011 ug/L

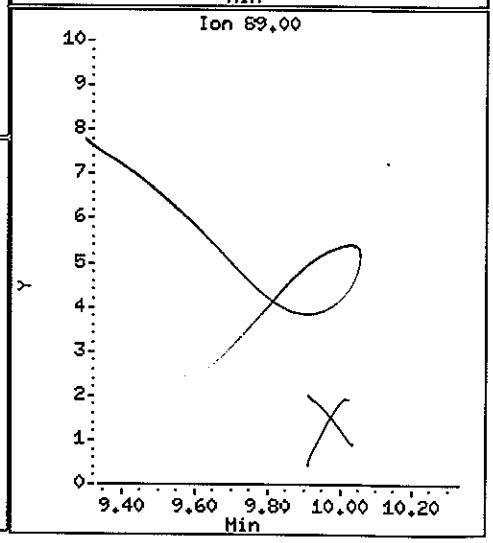


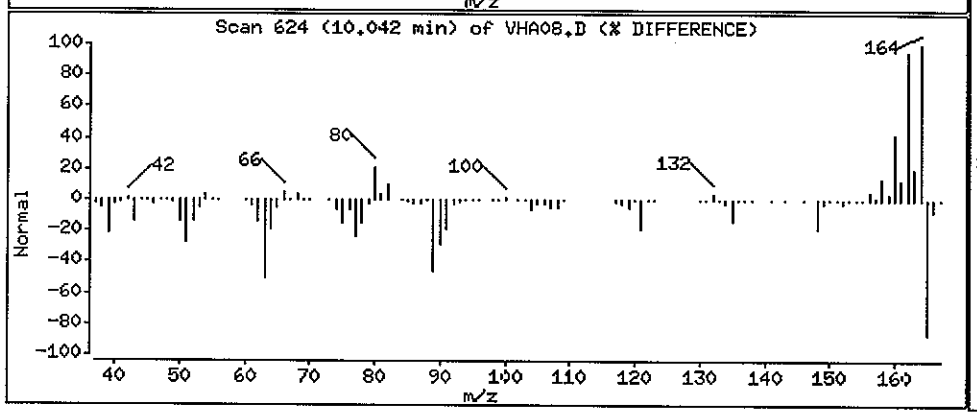












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

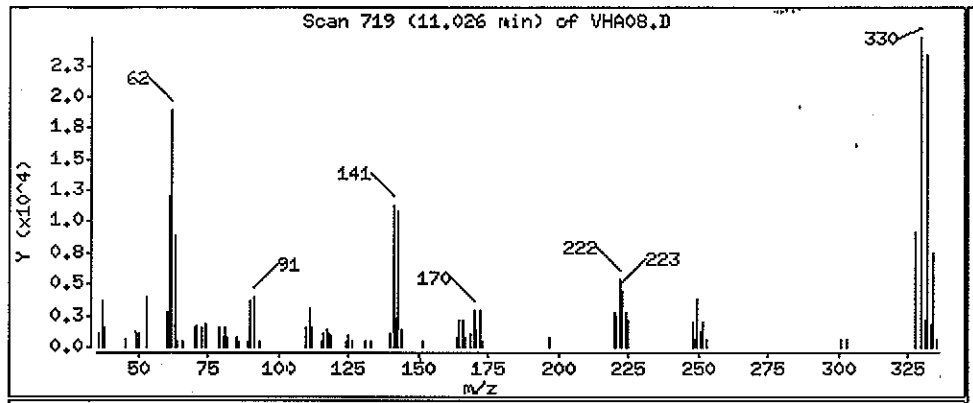
Operator: BVD

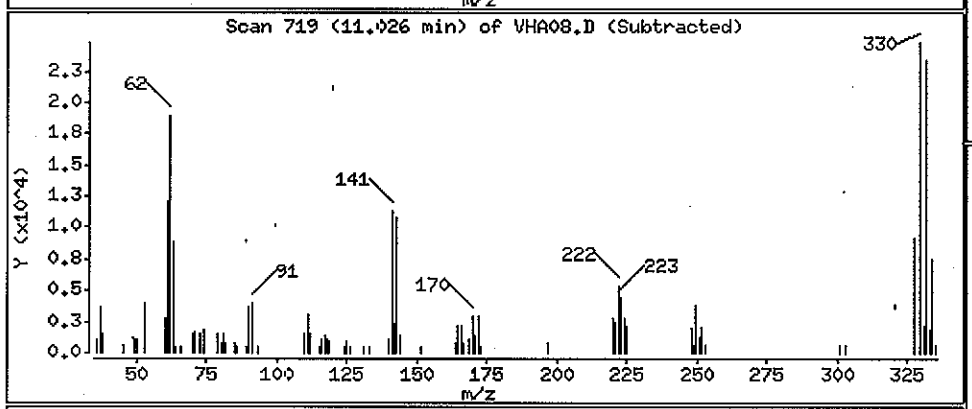
Column phase: Xti 5 x .5 u

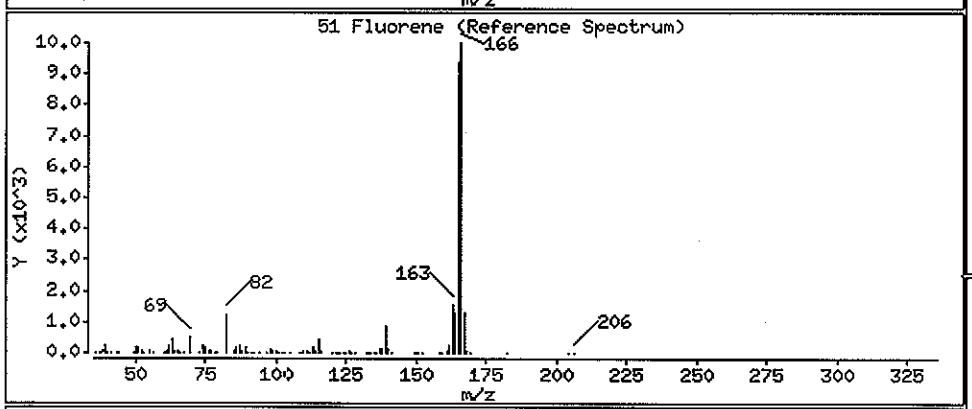
Column diameter: 0.25

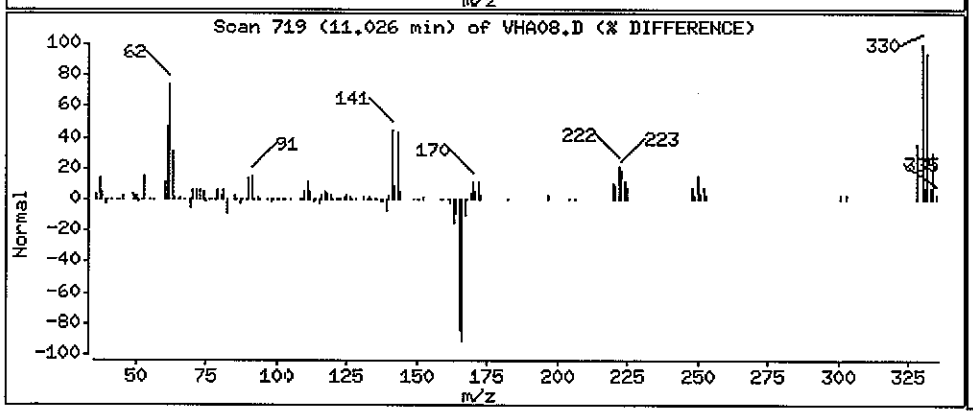
51 Fluorene

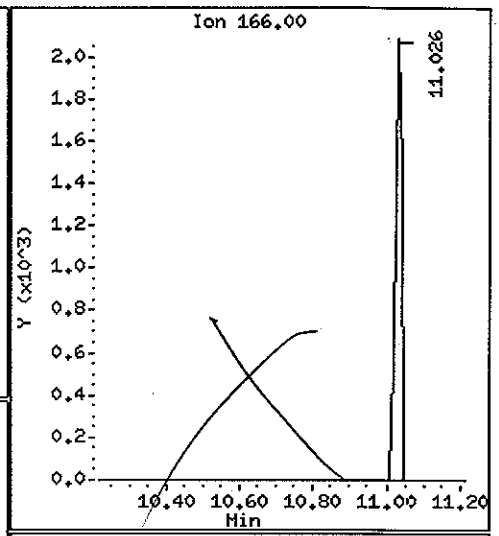
Concentration: 0.4916 ug/L

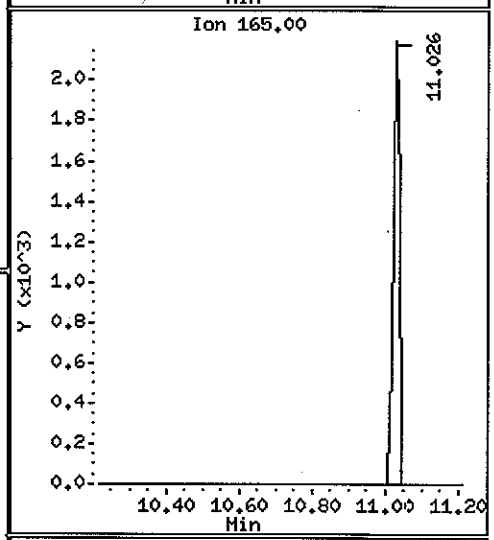


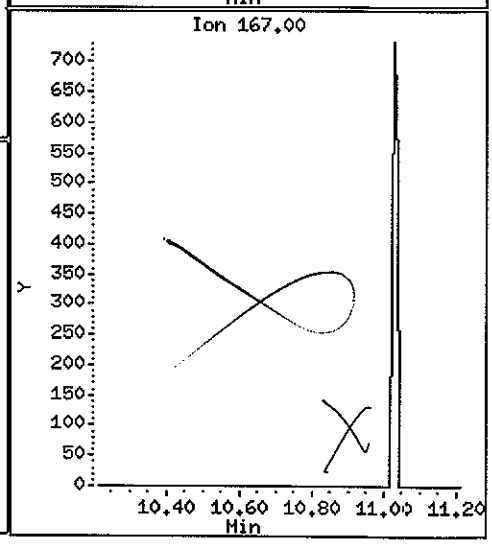












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

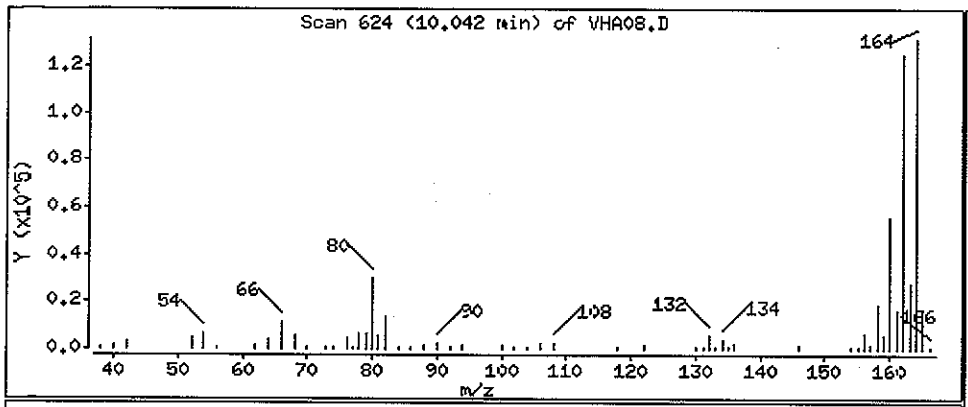
Operator: BVD

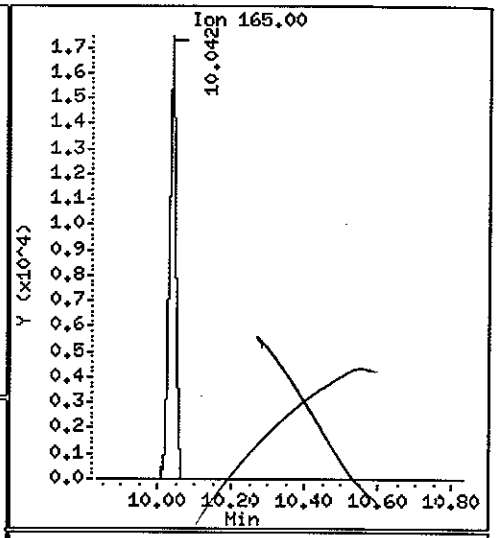
Column phase: Xti 5 x .5 u

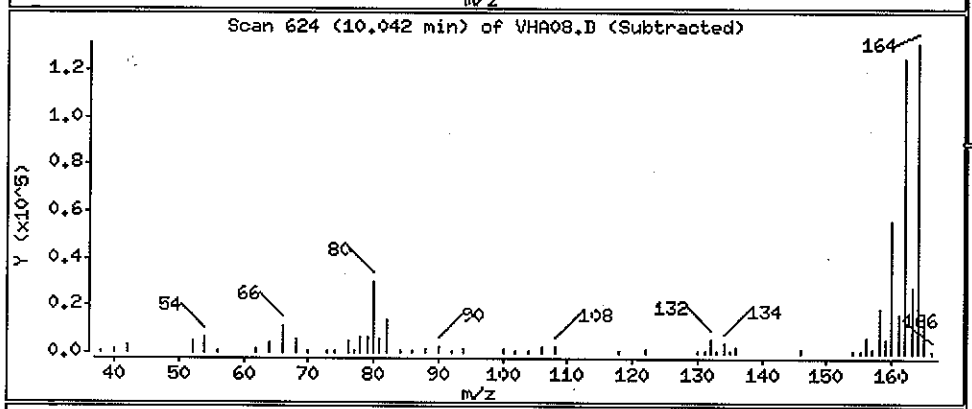
Column diameter: 0.25

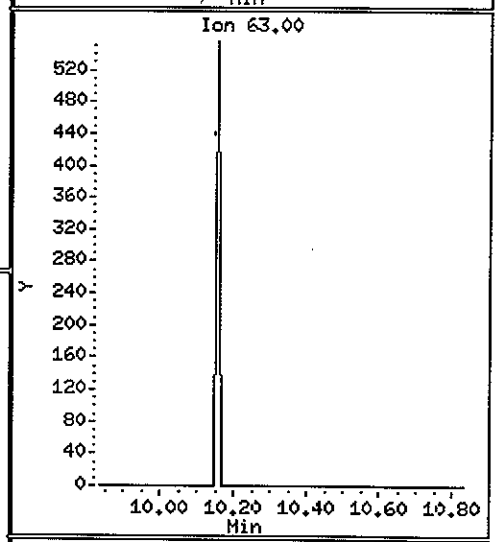
52 2,4-Dinitrotoluene

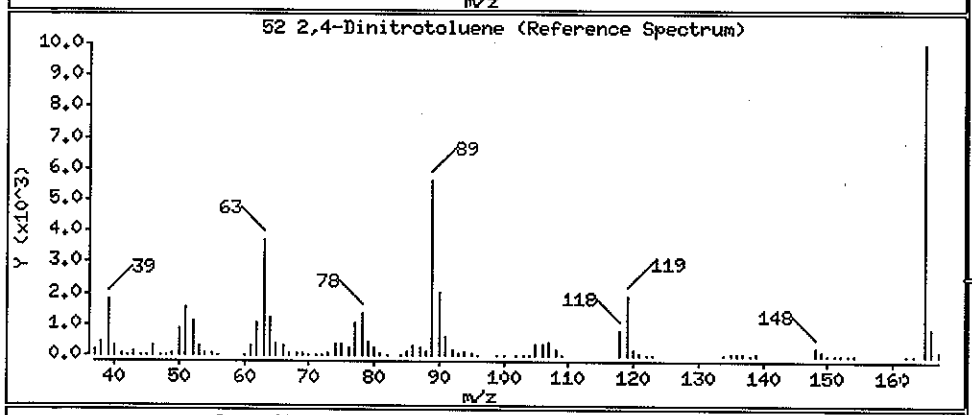
Concentration: 11.8766 ug/L

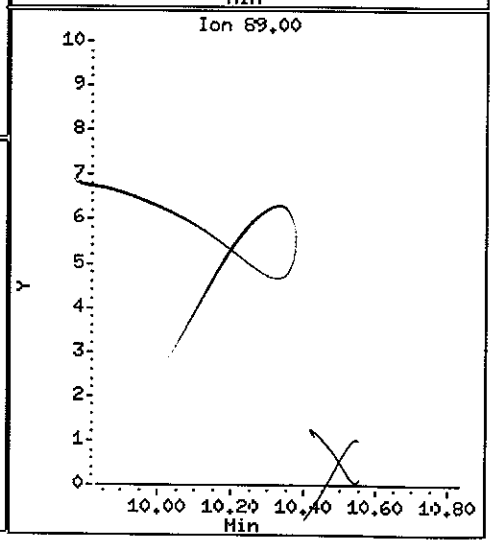


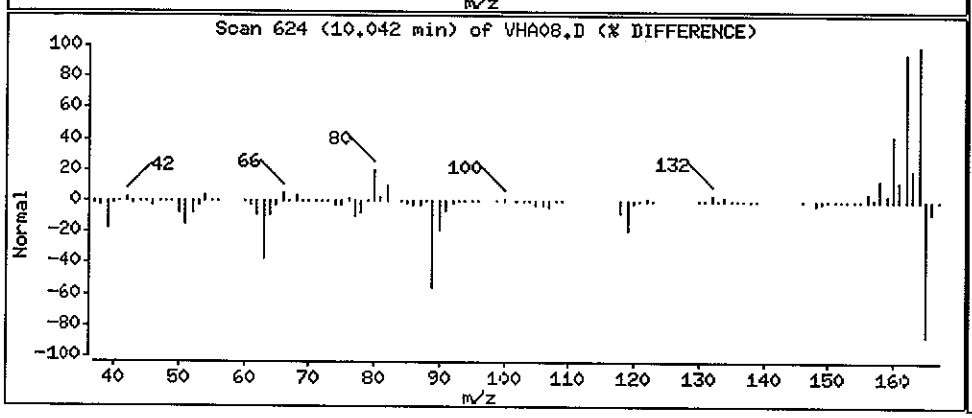












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

Volume Injected (uL): 1.0

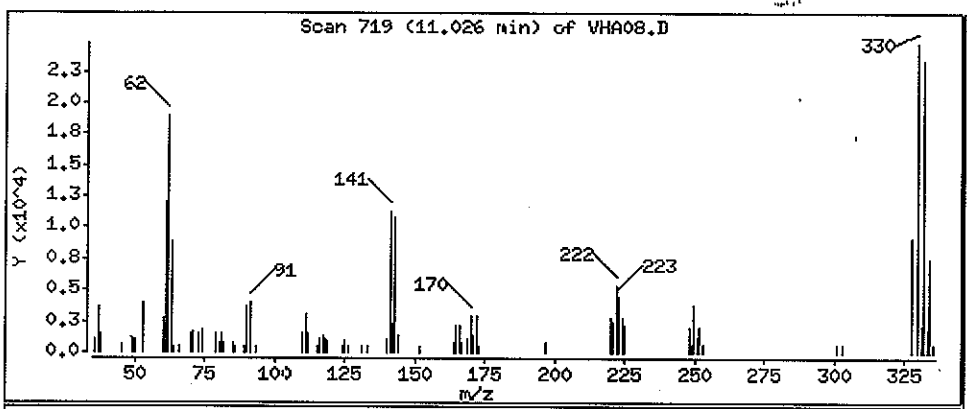
Operator: BVD

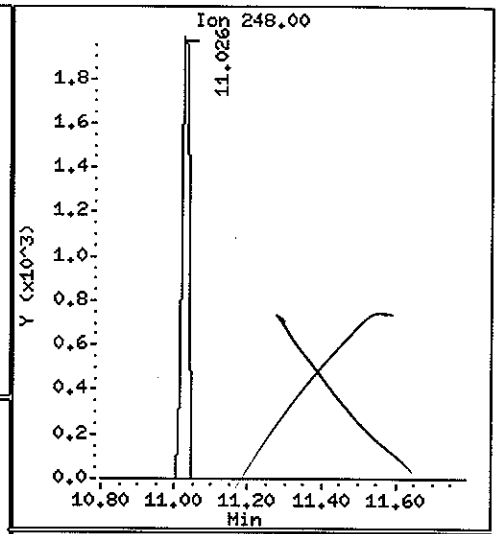
Column phase: Xti 5 x .5 u

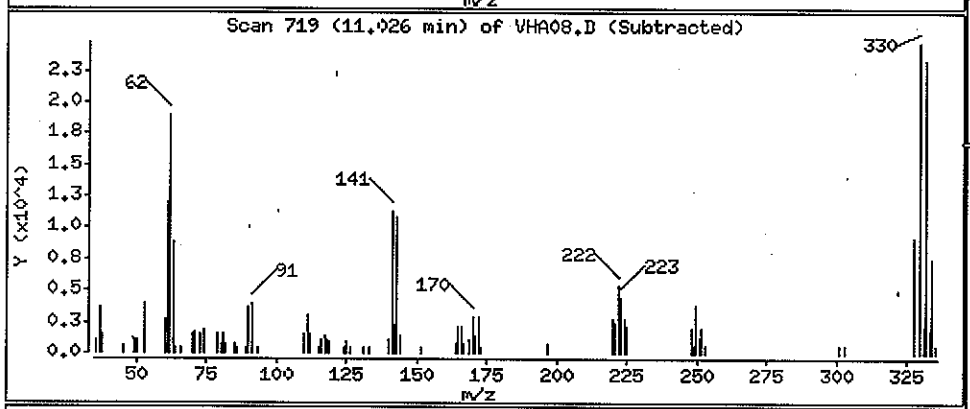
Column diameter: 0.25

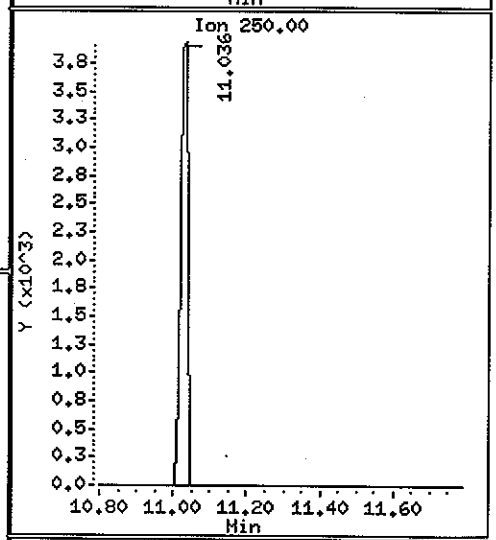
58 4-Bromophenyl-phenylether

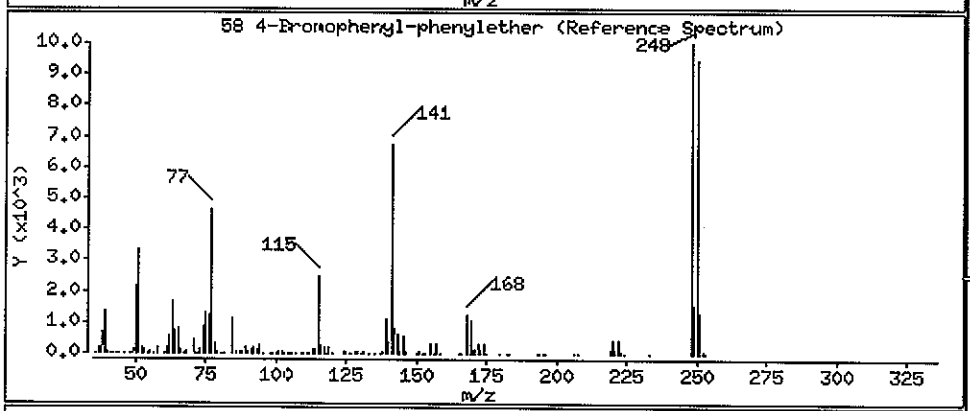
Concentration: 1.6521 ug/L

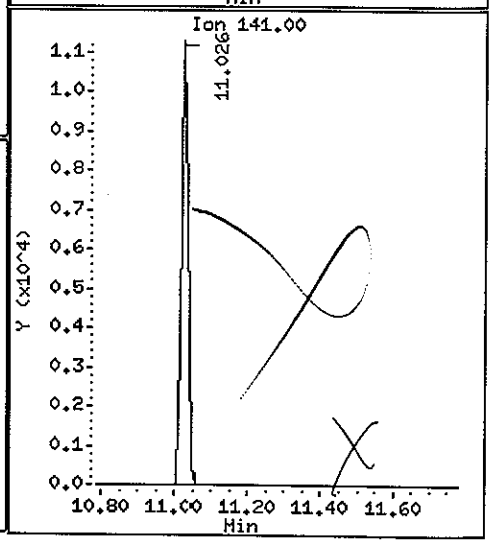


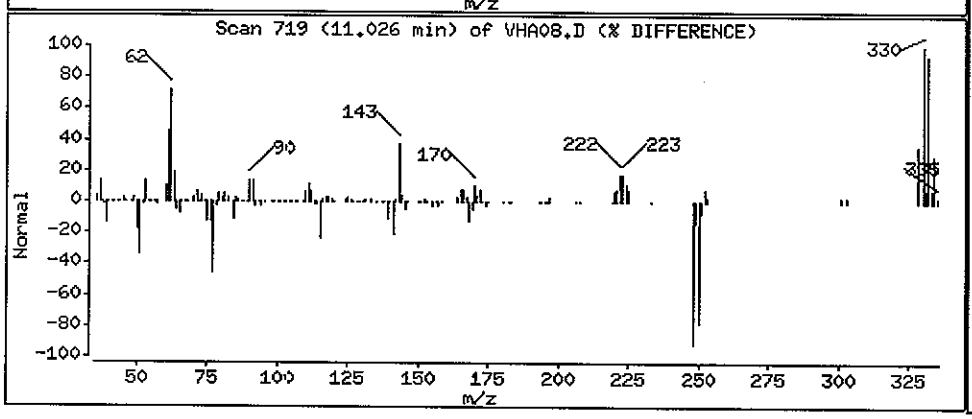












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA08.D

Date : 11-AUG-2004 00:25

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,173857-001

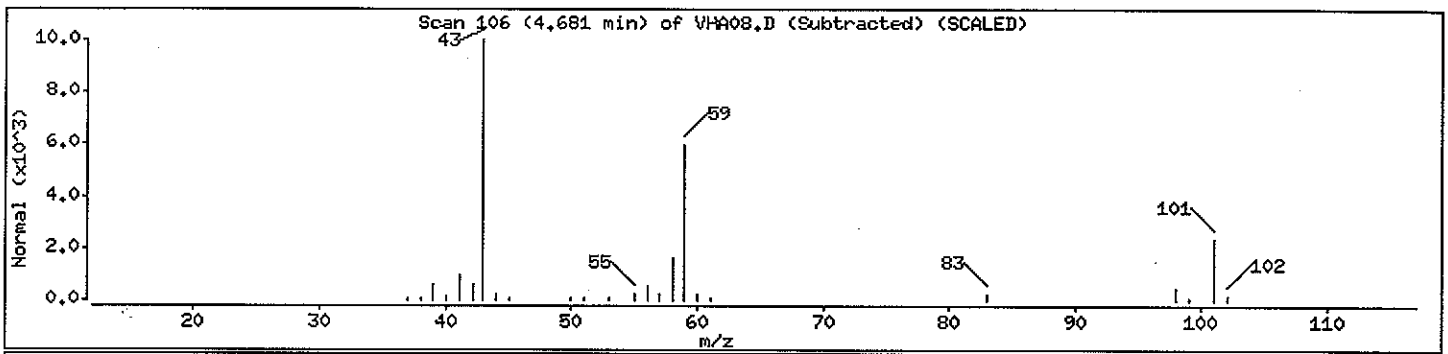
Volume Injected (uL): 1.0

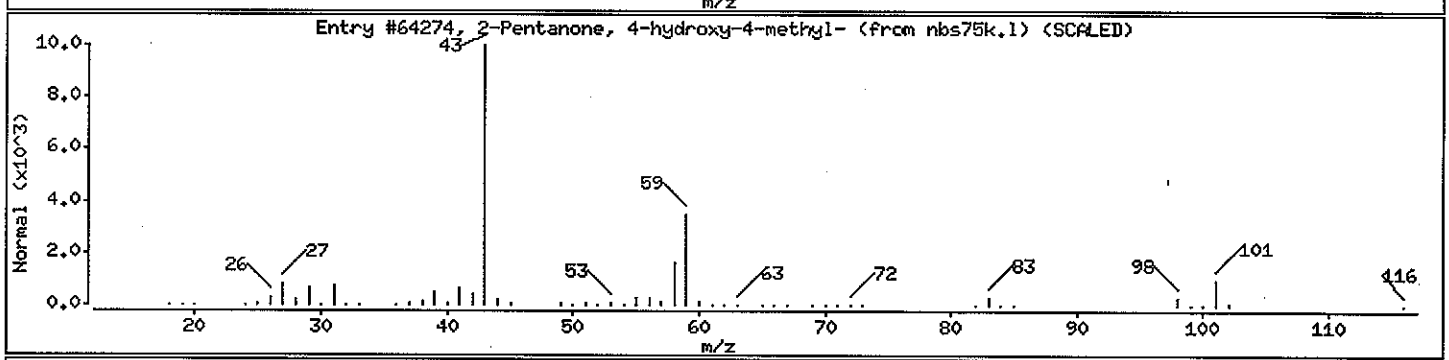
Operator: BVD

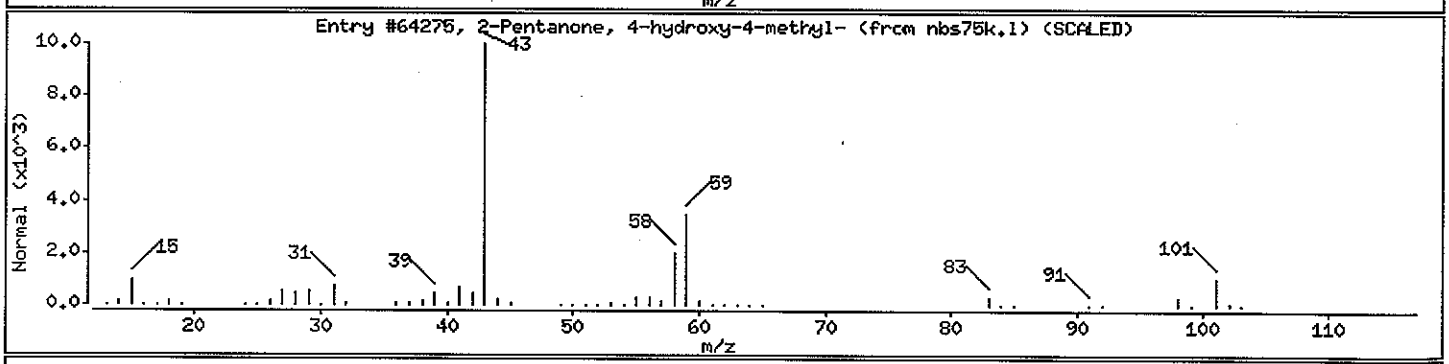
Column phase: Xti 5 x .5 u

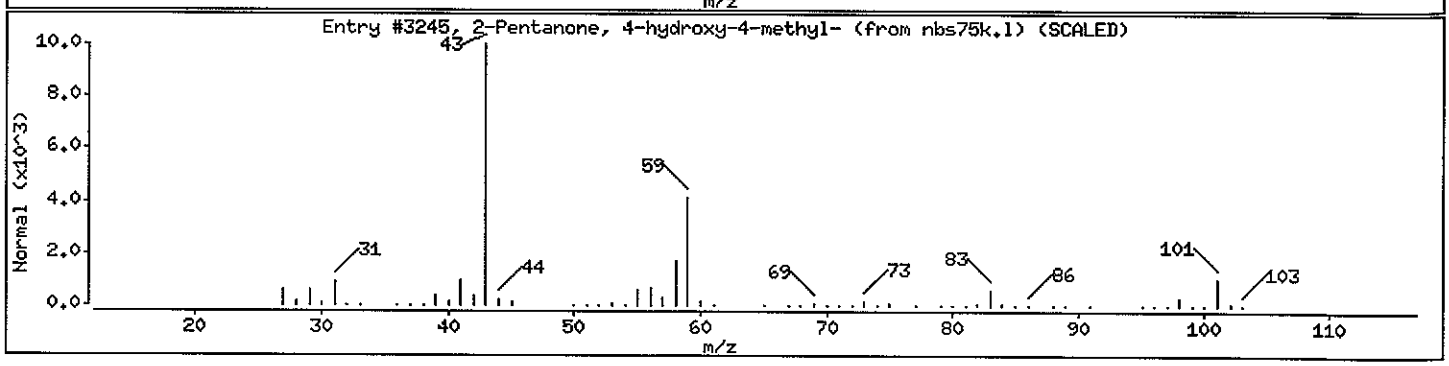
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	3245	33	C6H12O2	116









SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 524322155011	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha11	Batchnum	: 93643	Injected	: 11-AUG-2004 02:14
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Prep: 29.84 g --> 1.0 ml = 0.03351 ml/g PDF

Analyte	Result	RTS	RL	B=vha06	Flags
N-Nitrosodimethylamine	ND		340		u
Phenol	ND		340		u
bis(2-Chloroethyl)ether	ND		340		u
2-Chlorophenol	ND		340		u
1,3-Dichlorobenzene	ND		340		u
1,4-Dichlorobenzene	ND		340		u
Benzyl alcohol	ND		340		u
1,2-Dichlorobenzene	ND		340		u
2-Methylphenol	ND		340		u
bis(2-Chloroisopropyl) ether	ND		340		u
4-Methylphenol	ND		340		u
N-Nitroso-di-n-propylamine	ND		340		u
Hexachloroethane	ND		340		u
Nitrobenzene	ND		340		u
Isophorone.....	~~.620~~	-0.310	340		u x
2-Nitrophenol	ND		670		u
2,4-Dimethylphenol	ND		340		u
Benzoic acid	ND		1700		u
bis(2-Chloroethoxy)methane	ND		340		u
2,4-Dichlorophenol	ND		340		u
1,2,4-Trichlorobenzene	ND		340		u
Naphthalene	ND		340		u
4-Chloroaniline	ND		340		u
Hexachlorobutadiene	ND		340		u
4-Chloro-3-methylphenol	ND		340		u
2-Methylnaphthalene	ND		340		u
Hexachlorocyclopentadiene	ND		1700		u
2,4,6-Trichlorophenol	ND		340		u
2,4,5-Trichlorophenol	ND		340		u
2-Chloronaphthalene	ND		340		u
2-Nitroaniline	ND		670		u
Dimethylphthalate	ND		340		u
Acenaphthylene	ND		340		u
2,6-Dinitrotoluene.....	~~.510~~	0.197	340		u x
3-Nitroaniline	ND		670		u
Acenaphthene	ND		670		u
2,4-Dinitrophenol	ND		1700		u
4-Nitrophenol	ND		670		u
Dibenzofuran	ND		340		u
2,4-Dinitrotoluene.....	~~.390~~	-0.290	340		u x
Diethylphthalate	ND		340		u

-=low bias u=use v=ICV x=false positive

Analyst: _____ Date: 8/20/04 Reviewer: _____ Date: 08/20/04

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 524322155011	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha11	Batchnum	: 93643	Injected	: 11-AUG-2004 02:14
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Analyte	Result	RTS	RL	B=vha06	Flags
Fluorene	ND		340		u
4-Chlorophenyl-phenylether	ND		340		u
4-Nitroaniline	ND		670		u v-
4,6-Dinitro-2-methylphenol	ND		1700		u
N-Nitrosodiphenylamine	ND		340		u
Azobenzene	ND		340		u
4-Bromophenyl-phenylether	ND		340		u
Hexachlorobenzene	ND		340		u
Pentachlorophenol	ND		670		u
Phenanthrene	ND		340		u
Anthracene	ND		340		u
Di-n-butylphthalate	ND		340		u
Fluoranthene	ND		340		u
Pyrene	ND		340		u
Butylbenzylphthalate	ND		340		u
3,3'-Dichlorobenzidine	ND		670		u
Benzo(a)anthracene	ND		67		u
Chrysene	ND		340		u
bis(2-Ethylhexyl)phthalate	ND		340		u
Di-n-octylphthalate	ND		340		u
Benzo(b)fluoranthene	ND		67		u
Benzo(k)fluoranthene	ND		67		u
Benzo(a)pyrene	ND		67		u
Indeno(1,2,3-cd)pyrene	ND		67		u
Dibenz(a,h)anthracene	ND		67		u
Benzo(g,h,i)perylene	ND		340		u

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3351	2332	70	25-121	u
Phenol-d5	3351	2265	68	24-113	u
2,4,6-Tribromophenol	3351	1632	49	19-122	u
Nitrobenzene-d5	1676	1113	66	23-120	u
2-Fluorobiphenyl	1676	1228	73	30-115	u
Terphenyl-d14	1676	980.3	59	18-137	u

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	73067	29.27	6.36	6.35	-0.01
Naphthalene-d8	216443	267431	23.56	7.87	7.86	-0.01
Acenaphthene-d10	131753	161951	22.92	10.04	10.04	0.00
Phenanthrene-d10	227010	272289	19.95	11.89	11.88	-0.01
Chrysene-d12	220115	289825	31.67	15.42	15.39	-0.03
Perylene-d12	182792	249582	36.54	18.66	18.63	-0.03

-=low bias u=use v=ICV x=false positive

Analyst: _____ Date: 8/20/04 Reviewer: _____ Date: 08/20/04

Page 2 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 524322155011	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha11	Batchnum	: 93643	Injected	: 11-AUG-2004 02:14
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Prep: 29.84 g --> 1.0 ml = 0.03351 ml/g PDF

Analyte	Result	RTS	RL	B=vha06	Flags
N-Nitrosodimethylamine	ND		340		
Phenol	ND		340		
bis(2-Chloroethyl)ether	ND		340		
2-Chlorophenol	ND		340		
1,3-Dichlorobenzene	ND		340		
1,4-Dichlorobenzene	ND		340		
Benzyl alcohol	ND		340		
1,2-Dichlorobenzene	ND		340		
2-Methylphenol	ND		340		
bis(2-Chloroisopropyl) ether	ND		340		
4-Methylphenol	ND		340		
N-Nitroso-di-n-propylamine	ND		340		
Hexachloroethane	ND		340		
Nitrobenzene	ND		340		
Isophorone.....	~~620~~ ND	-0.310	340		x
2-Nitrophenol	ND		670		
2,4-Dimethylphenol	ND		340		
Benzoic acid	ND		1700		
bis(2-Chloroethoxy)methane	ND		340		
2,4-Dichlorophenol	ND		340		
1,2,4-Trichlorobenzene	ND		340		
Naphthalene	ND		340		
4-Chloroaniline	ND		340		
Hexachlorobutadiene	ND		340		
4-Chloro-3-methylphenol	ND		340		
2-Methylnaphthalene	ND		340		
Hexachlorocyclopentadiene	ND		1700		
2,4,6-Trichlorophenol	ND		340		
2,4,5-Trichlorophenol	ND		340		
2-Chloronaphthalene	ND		340		
2-Nitroaniline	ND		670		
Dimethylphthalate	ND		340		
Acenaphthylene	ND		340		
2,6-Dinitrotoluene.....	~~510~~ ND	0.197	340		x
3-Nitroaniline	ND		670		
Acenaphthene	ND		670		
2,4-Dinitrophenol	ND		1700		
4-Nitrophenol	ND		670		
Dibenzofuran	ND		340		
2,4-Dinitrotoluene.....	~~390~~ ND	-0.290	340		x
Diethylphthalate	ND		340		

-=low bias v=ICV x=false positive

Analyst: _____ Date: 08/11/04 Reviewer: _____ Date: 8/18/04

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 524322155011	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vha11	Batchnum	: 93643	Injected	: 11-AUG-2004 02:14
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Analyte	Result	RTS	RL	B=vha06	Flags
Fluorene	ND		340		
4-Chlorophenyl-phenylether	ND		340		
4-Nitroaniline	ND		670		v-
4,6-Dinitro-2-methylphenol	ND		1700		
N-Nitrosodiphenylamine	ND		340		
Azobenzene	ND		340		
4-Bromophenyl-phenylether	ND		340		
Hexachlorobenzene	ND		340		
Pentachlorophenol	ND		670		
Phenanthrene	ND		340		
Anthracene	ND		340		
Di-n-butylphthalate	ND		340		
Fluoranthene	ND		340		
Pyrene	ND		340		
Butylbenzylphthalate	ND		340		
3,3'-Dichlorobenzidine	ND		670		
Benzo(a)anthracene	ND		340		
Chrysene	ND		340		
bis(2-Ethylhexyl)phthalate	ND		340		
Di-n-octylphthalate	ND		340		
Benzo(b)fluoranthene	ND		340		
Benzo(k)fluoranthene	ND		340		
Benzo(a)pyrene	ND		340		
Indeno(1,2,3-cd)pyrene	ND		340		
Dibenz(a,h)anthracene	ND		340		
Benzo(g,h,i)perylene	ND		340		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3351	2332	70	25-121	
Phenol-d5	3351	2265	68	24-113	
2,4,6-Tribromophenol	3351	1632	49	19-122	
Nitrobenzene-d5	1676	1113	66	23-120	
2-Fluorobiphenyl	1676	1228	73	30-115	
Terphenyl-d14	1676	980.3	59	18-137	

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	73067	29.27	6.36	6.35	-0.01
Naphthalene-d8	216443	267431	23.56	7.87	7.86	-0.01
Acenaphthene-d10	131753	161951	22.92	10.04	10.04	0.00
Phenanthrene-d10	227010	272289	19.95	11.89	11.88	-0.01
Chrysene-d12	220115	289825	31.67	15.42	15.39	-0.03
Perylene-d12	182792	249582	36.54	18.66	18.63	-0.03

-=low bias v=ICV x=false positive

Analyst: _____ Date: 8/11/04 Reviewer: _____ Date: 8/12/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D
Report Date: 11-Aug-2004 03:08

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 11-AUG-2004 02:14 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : S,173857-002
Misc Info : 93643,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.013	4.992	(0.790)	157261	69.5726	69.5726
$ 4 Phenol-d5	99	5.965	5.965	(0.940)	203153	67.5991	67.5990
6 Aniline	66	5.965	6.048	(0.940)	9749	7.85970	~~7.8597~~
* 10 1,4-Dichlorobenzene-d4	152	6.348	6.359	(1.000)	73067	40.0000	
17 N-Nitroso-di-n-propylamine	70	7.021	6.876	(1.106)	13017	9.08751	~~9.0875~~
$ 19 Nitrobenzene-d5	82	7.021	7.042	(0.893)	96678	33.2159	33.2158
21 Isophorone	82	7.021	7.332	(0.893)	96678	18.5271	~~18.5271~~
* 28 Naphthalene-d8	136	7.860	7.870	(1.000)	267431	40.0000	
$ 37 2-Fluorobiphenyl	172	9.174	9.184	(0.913)	181419	36.6331	36.6331
40 Dimethylphthalate	163	10.043	9.733	(1.000)	34489	6.11867	~~6.1186~~
41 2,6-Dinitrotoluene	165	10.043	9.847	(1.000)	21246	15.2537	~~15.2536~~
* 44 Acenaphthene-d10	164	10.043	10.043	(1.000)	161951	40.0000	
51 Fluorene	166	11.027	10.716	(1.098)	2874	0.52150	~~0.5215~~
52 2,4-Dinitrotoluene	165	10.043	10.333	(1.000)	21246	11.7629	~~11.7628~~

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D
Report Date: 11-Aug-2004 03:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 57 2,4,6-Tribromophenol	330	11.027	11.047	(1.098)	50648	48.7078	48.7077
58 4-Bromophenyl-phenylether	248	11.027	11.296	(0.929)	3116	1.84231	~~1.8423~~
* 61 Phenanthrene-d10	188	11.875	11.886	(1.000)	272289	40.0000	
67 Benzidine	184	13.832	13.542	(0.898)	2552	9.82829	~~9.8282~~
$ 69 Terphenyl-d14	244	13.832	13.842	(0.898)	229924	29.2521	29.2520
* 74 Chrysene-d12	240	15.394	15.415	(1.000)	289825	40.0000	
* 80 Perylene-d12	264	18.634	18.655	(1.000)	249582	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D
Report Date: 11-Aug-2004 03:08

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 11-AUG-2004 02:14 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : S,173857-002
Misc Info : 93643,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

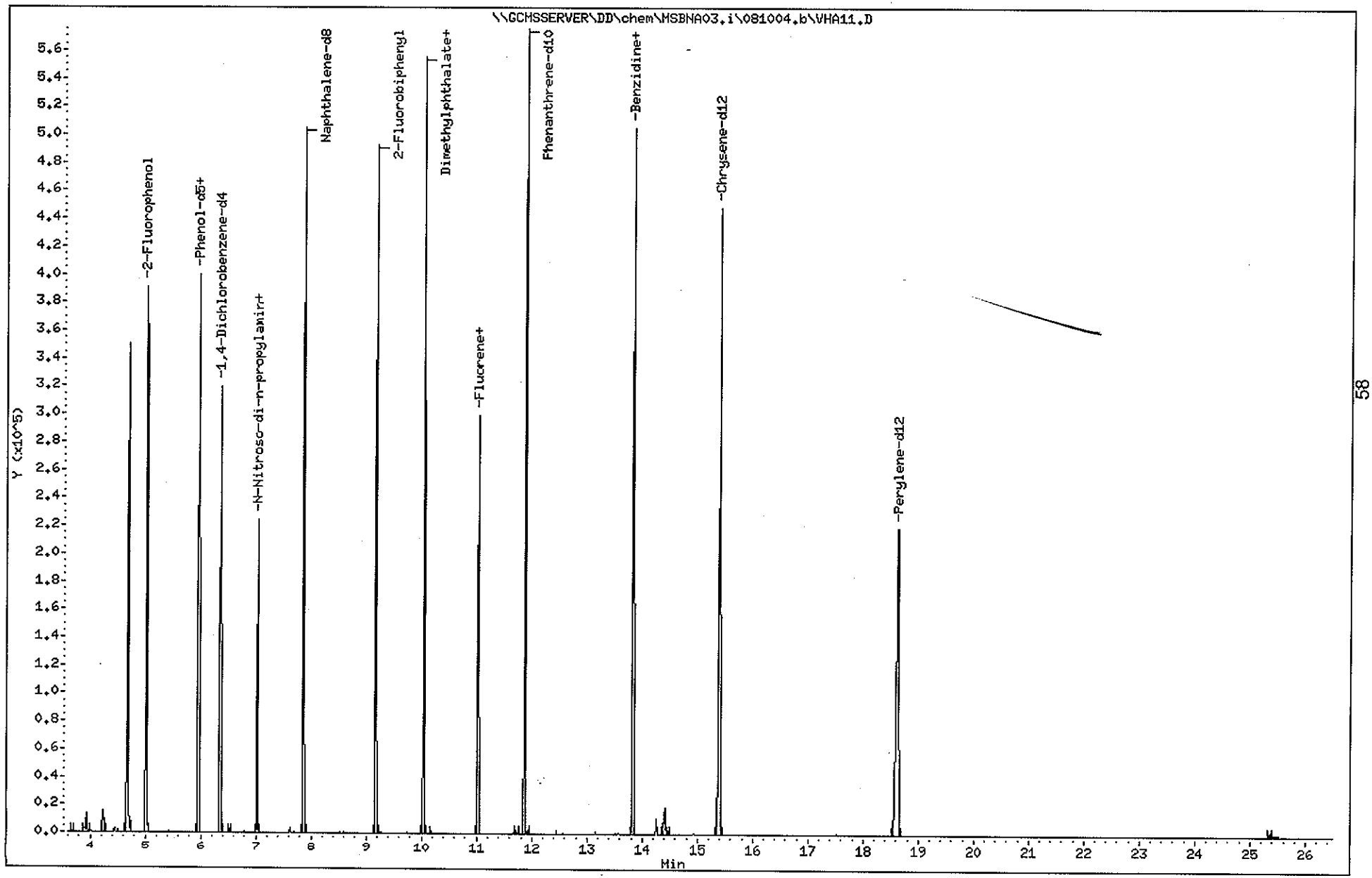
ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	6.348	421975	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-				CAS #: 123-42-2			
4.682	578543	54.8414480	54.8414	50	nbs75k.l	64274	10

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D
Date : 11-AUG-2004 02:14
Client ID: CURTIS&TOMPKINS
Sample Info: S,173857-002
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i

Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

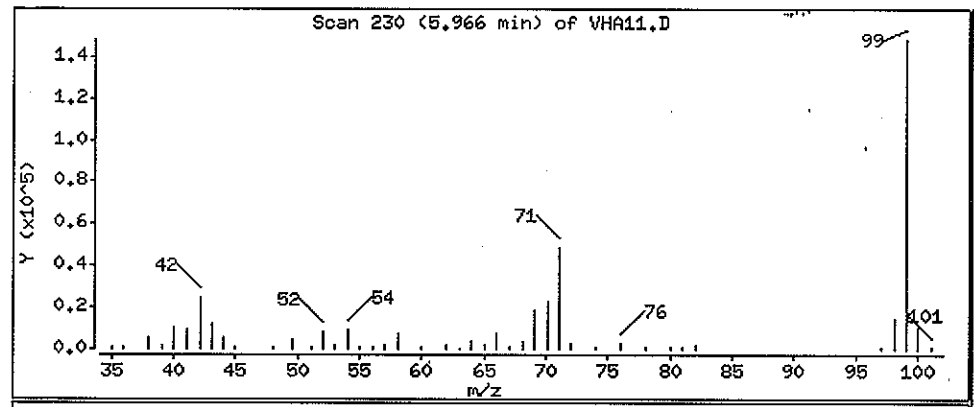
Operator: BVD

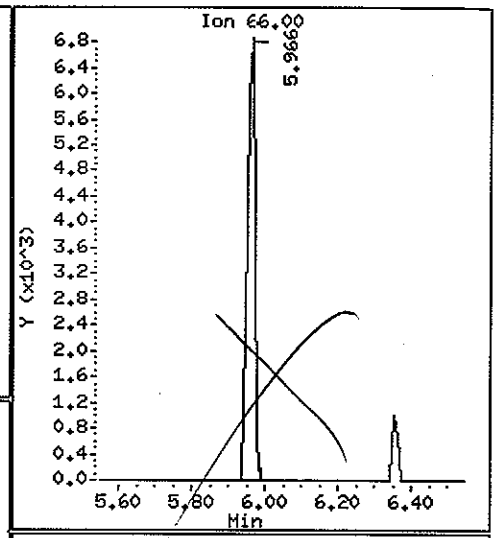
Column phase: Xti 5 x .5 u

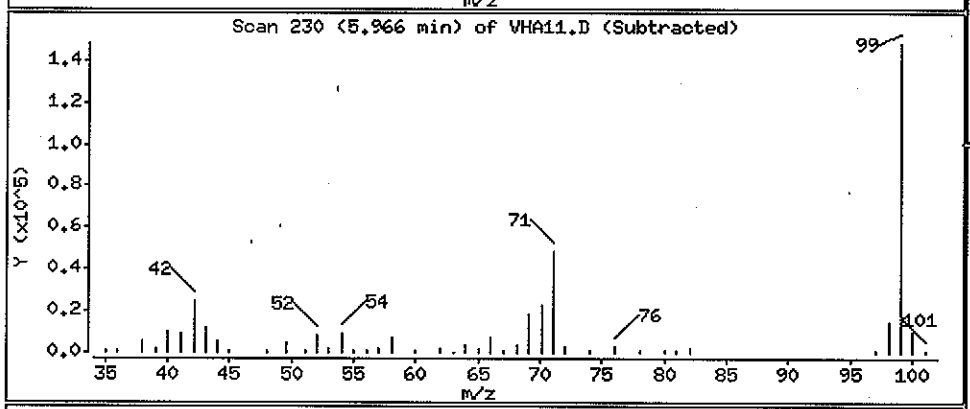
Column diameter: 0.25

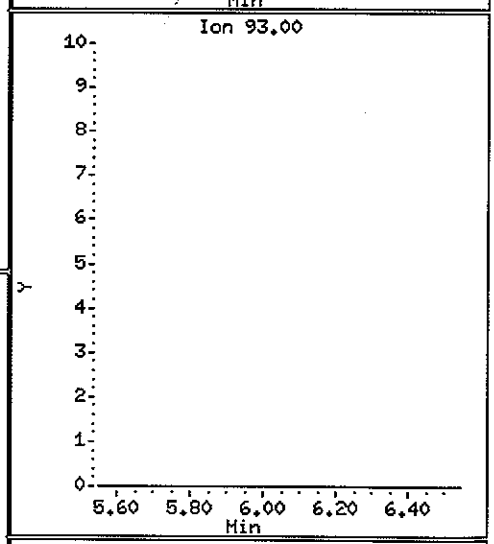
6 Aniline

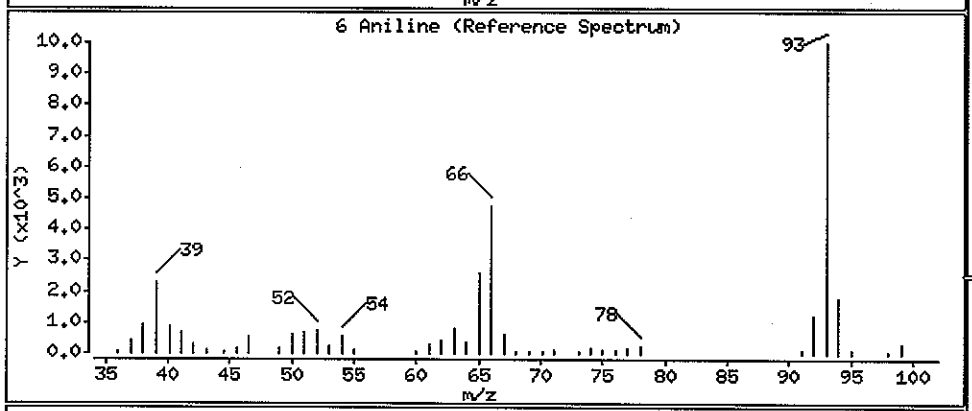
Concentration: 7.8597 ug/L

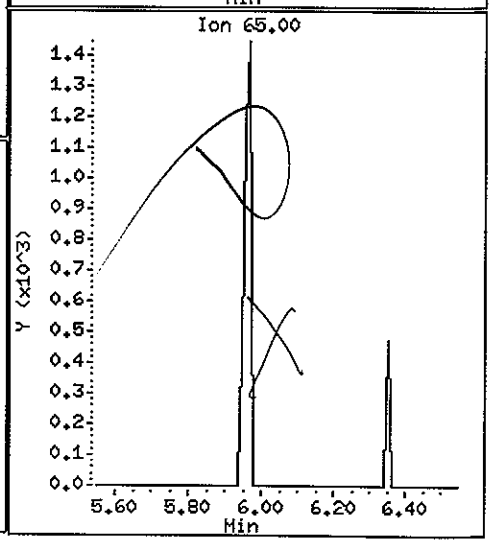


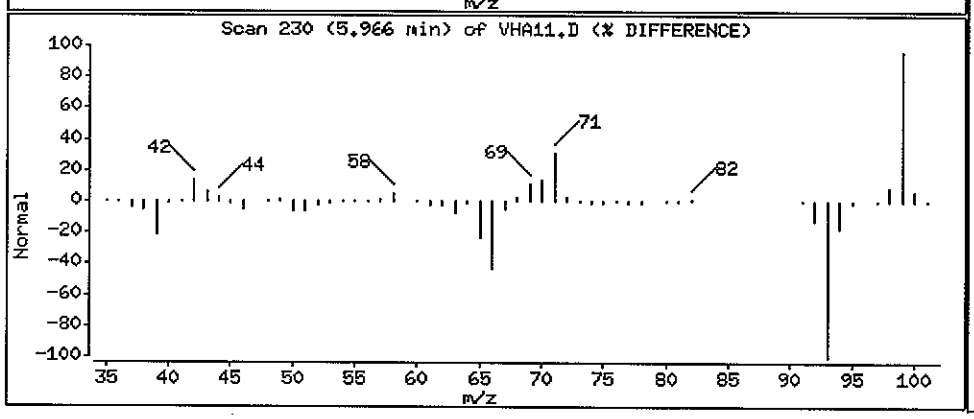












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

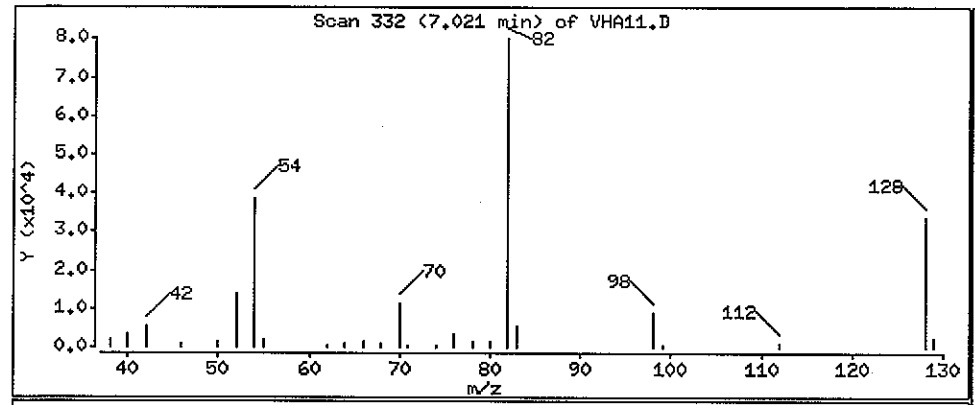
Operator: BVD

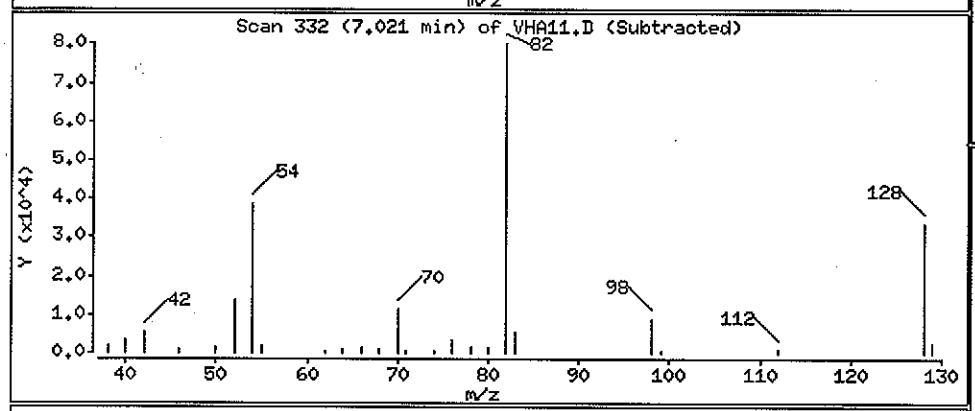
Column phase: Xti 5 x .5 u

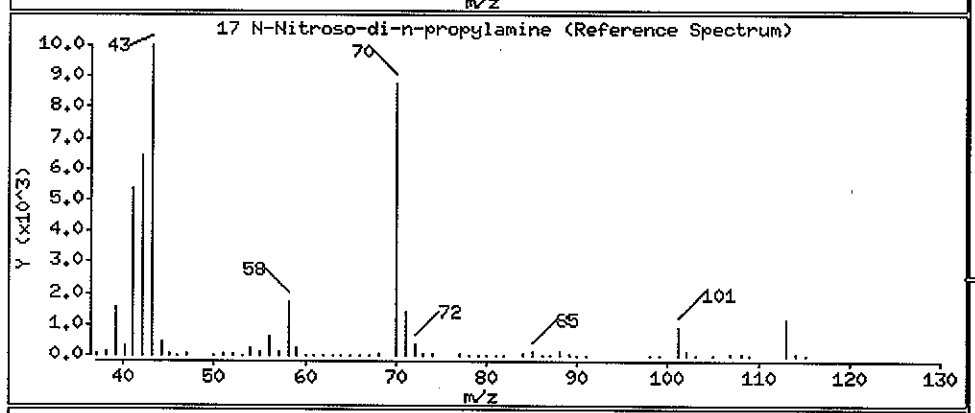
Column diameter: 0.25

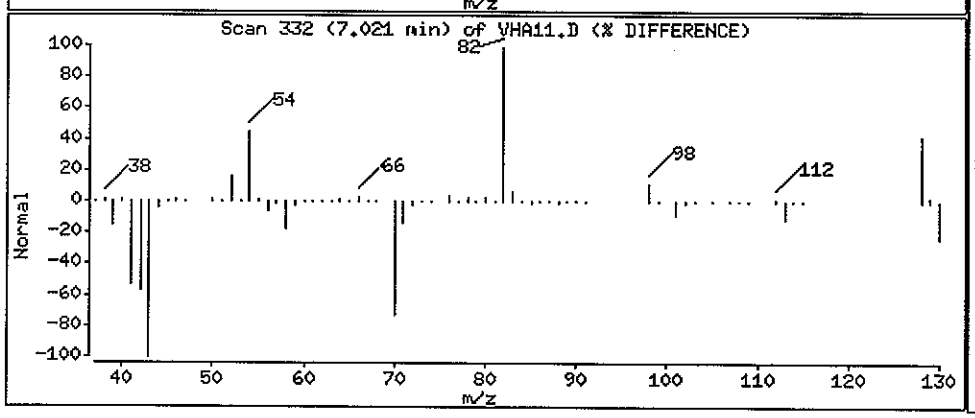
17 N-Nitroso-di-n-propylamine

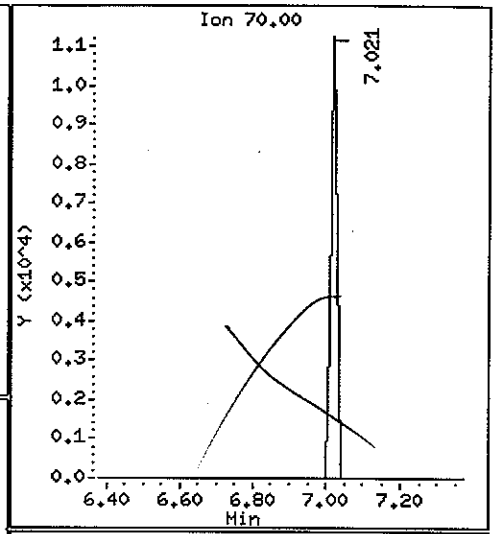
Concentration: 9.0875 ug/L

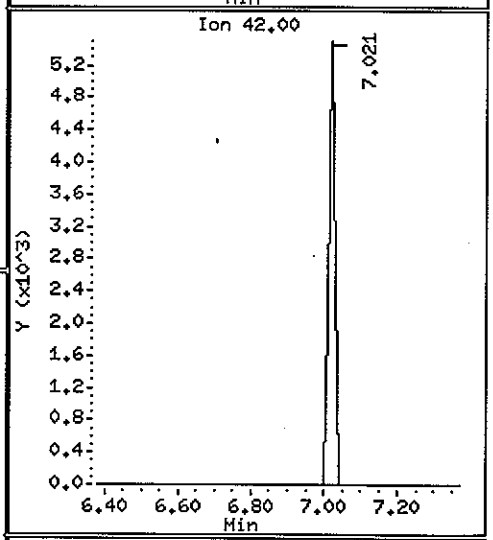


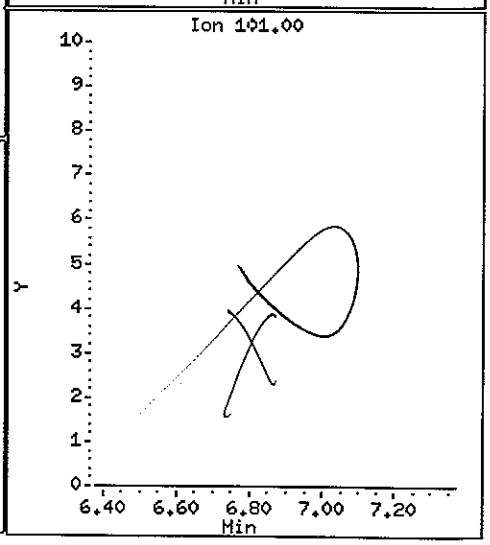












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

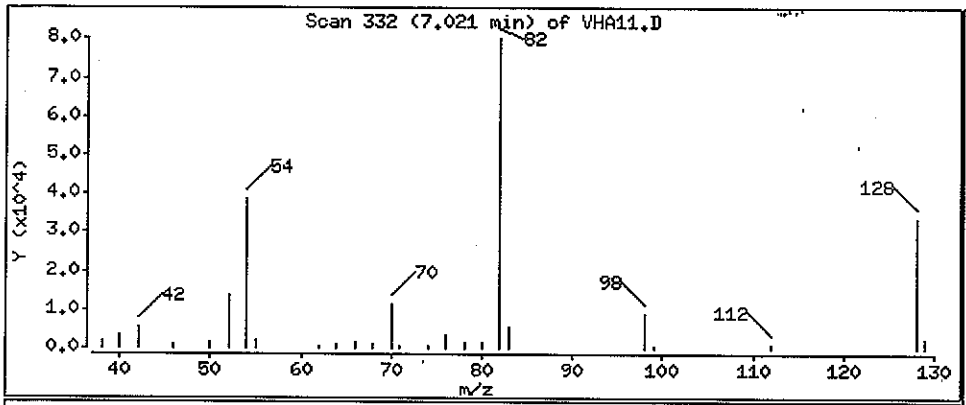
Operator: BVD

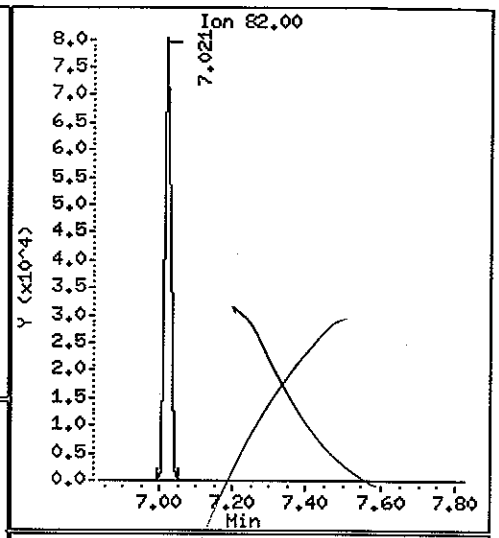
Column phase: Xti 5 x .5 u

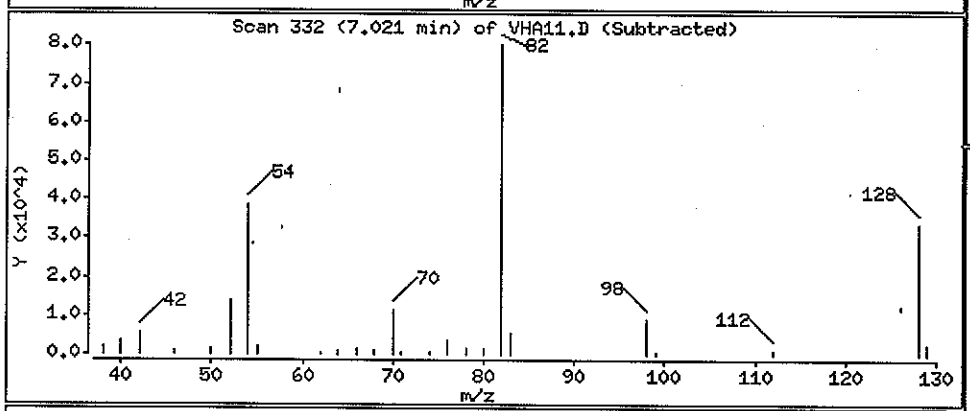
Column diameter: 0.25

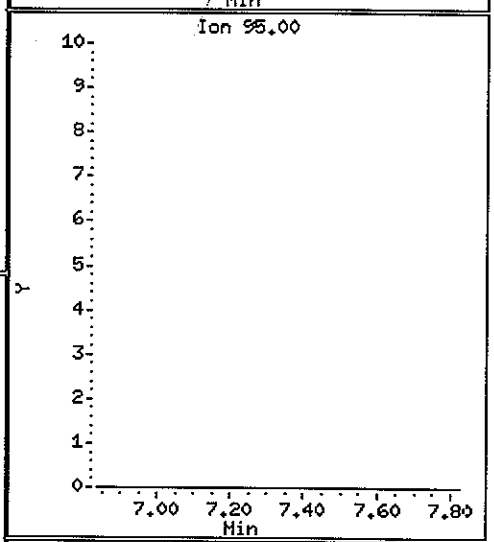
21 Isophorone

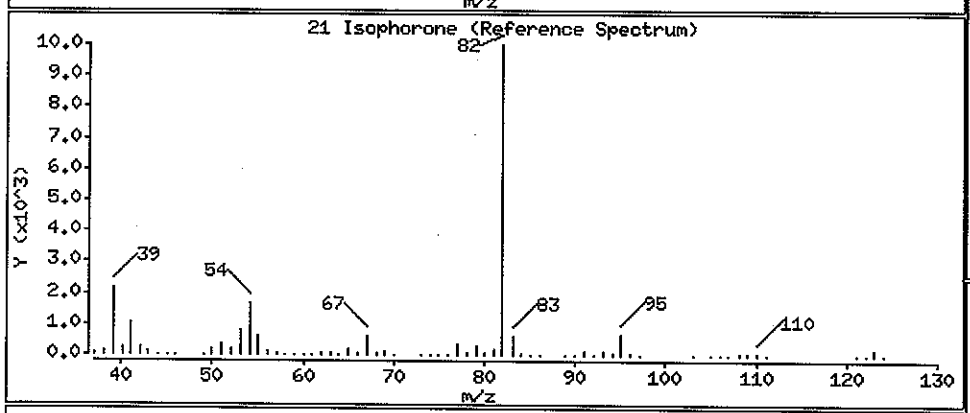
Concentration: 18.5271 ug/L

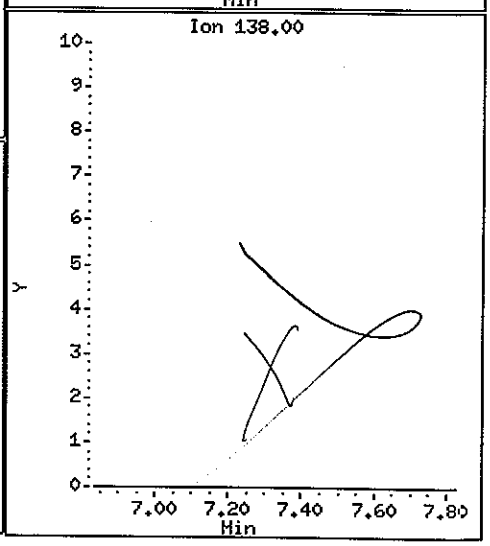


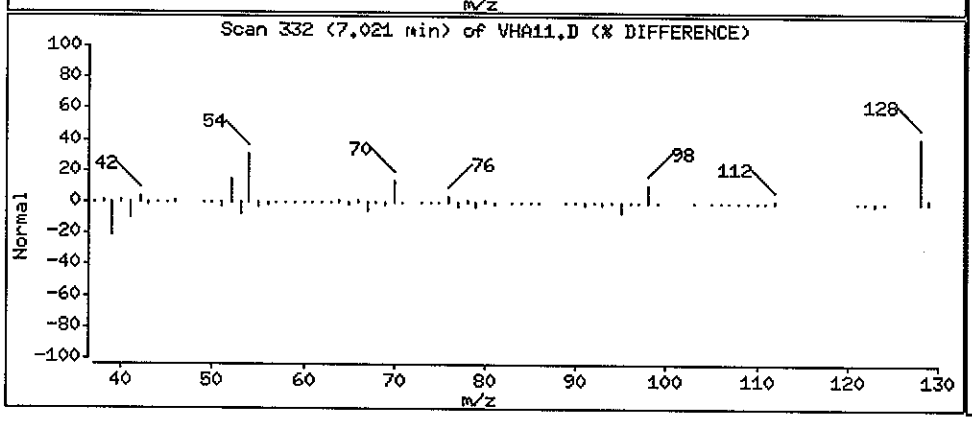












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

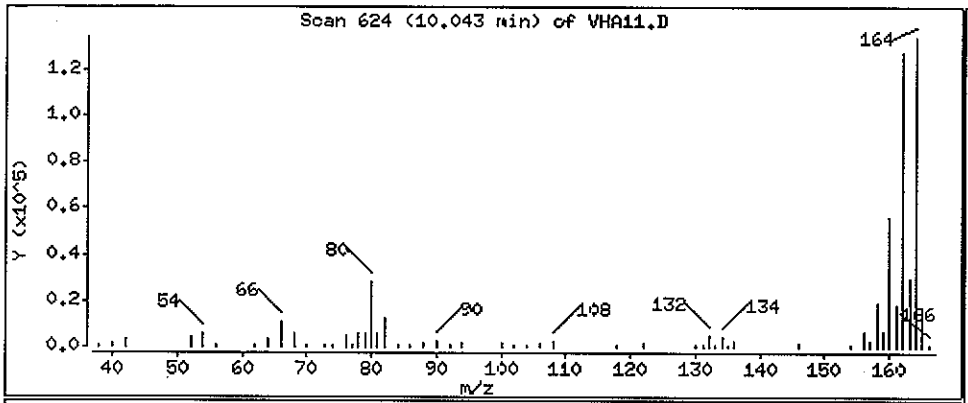
Operator: BVD

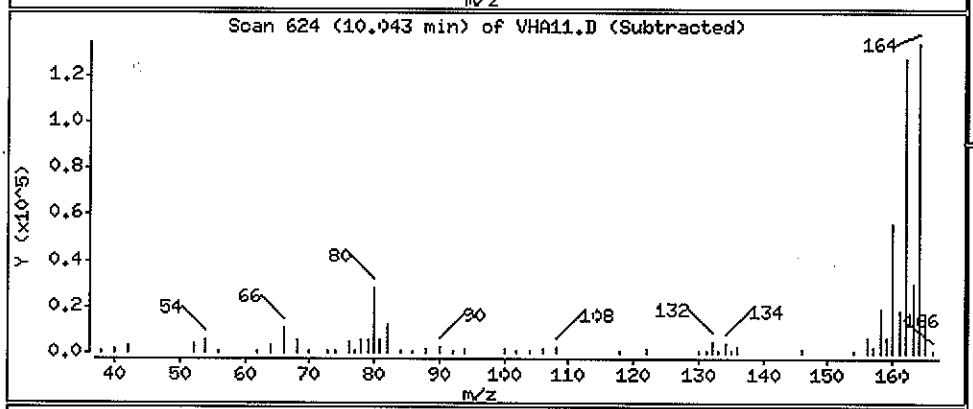
Column phase: Xti 5 x .5 u

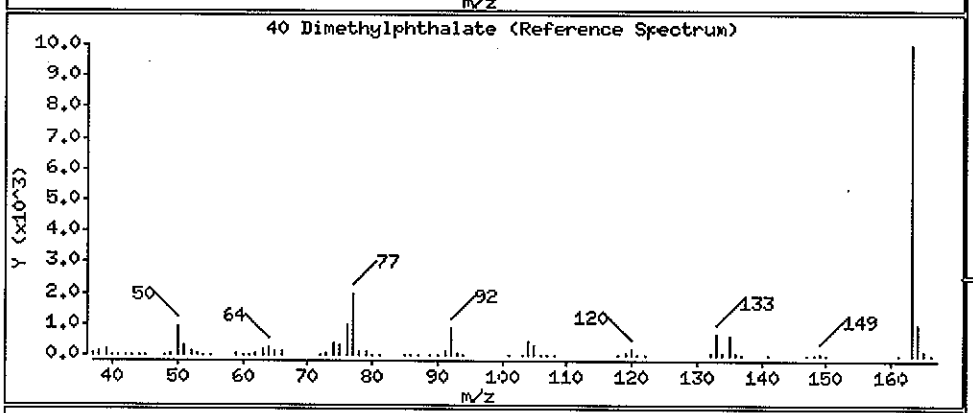
Column diameter: 0.25

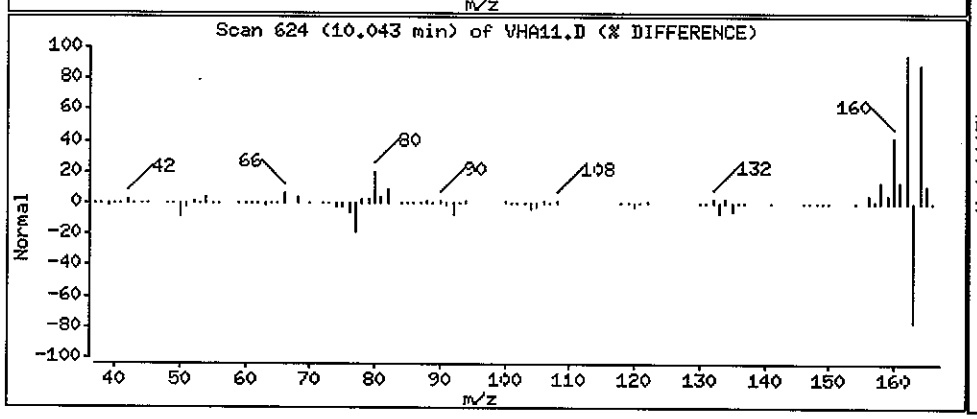
40 Dimethylphthalate

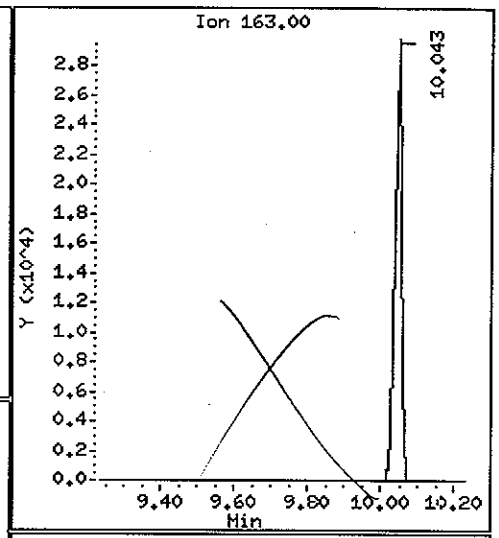
Concentration: 6.1186 ug/L

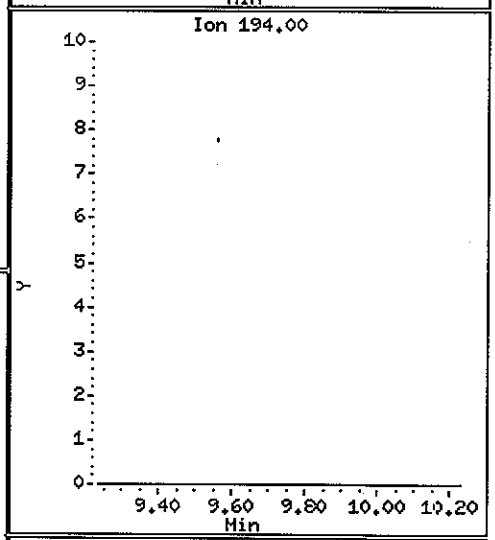


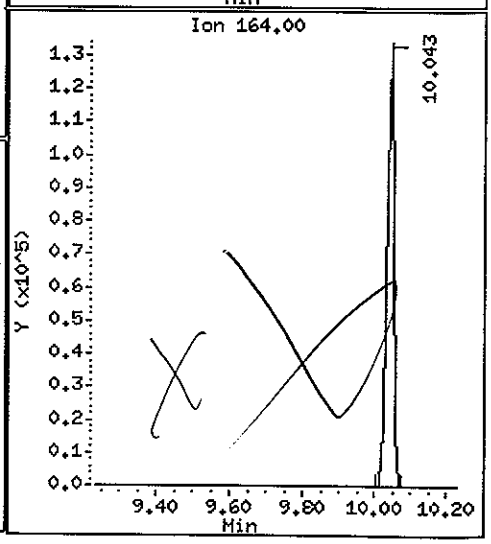












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

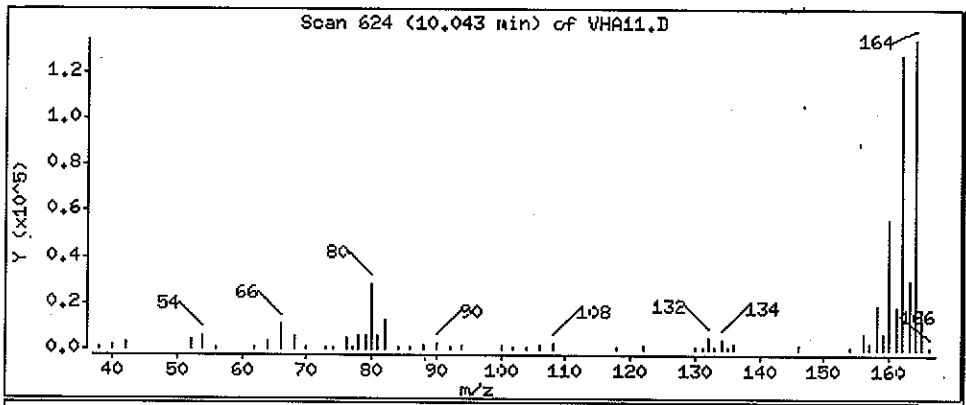
Operator: BVD

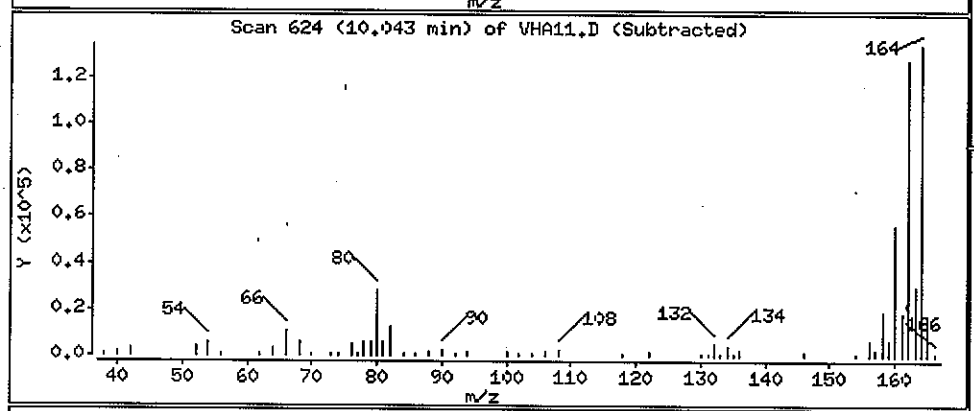
Column phase: Xti 5 x .5 u

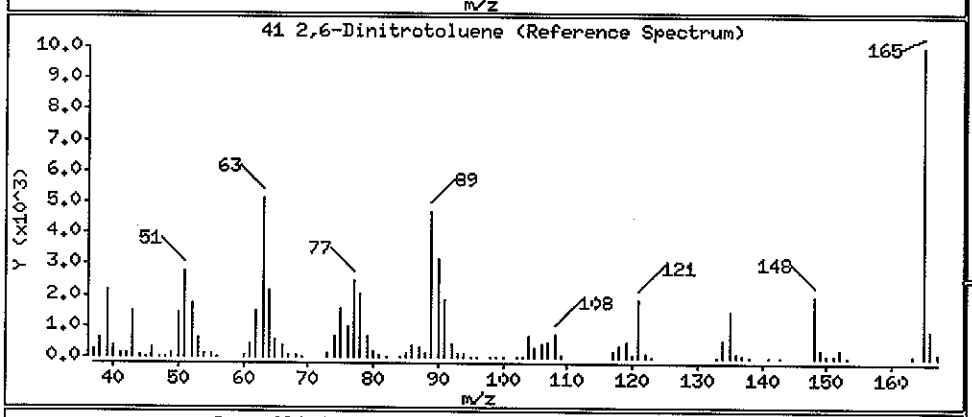
Column diameter: 0.25

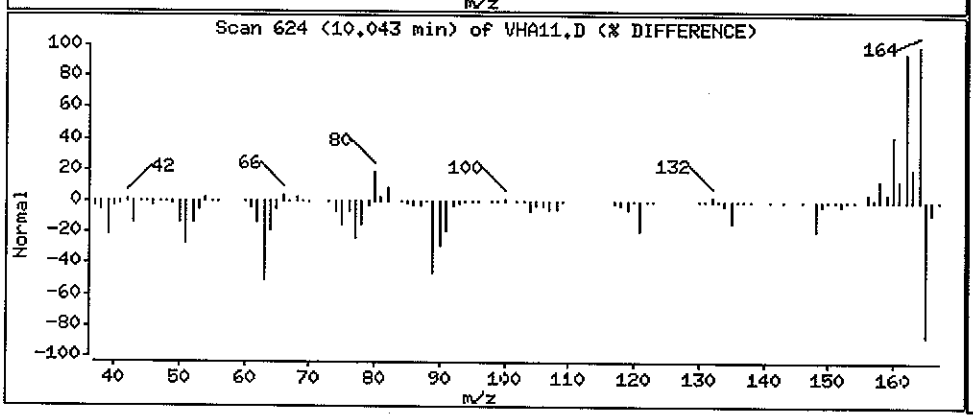
41 2,6-Dinitrotoluene

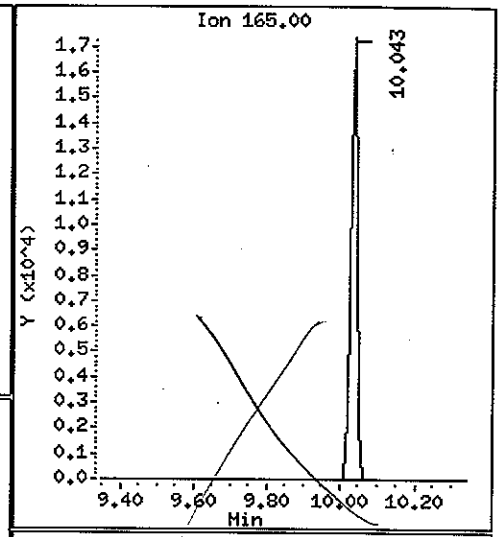
Concentration: 15.2536 ug/L

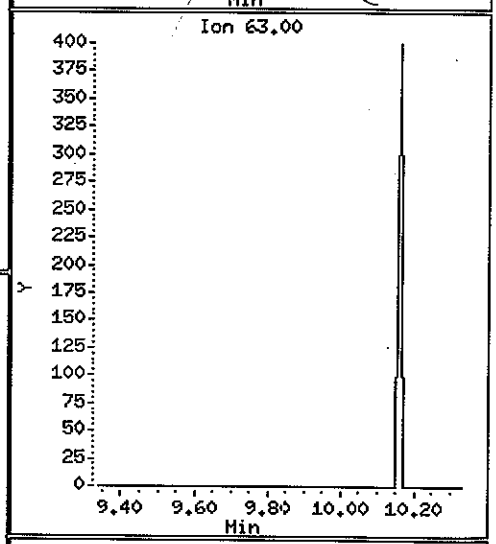


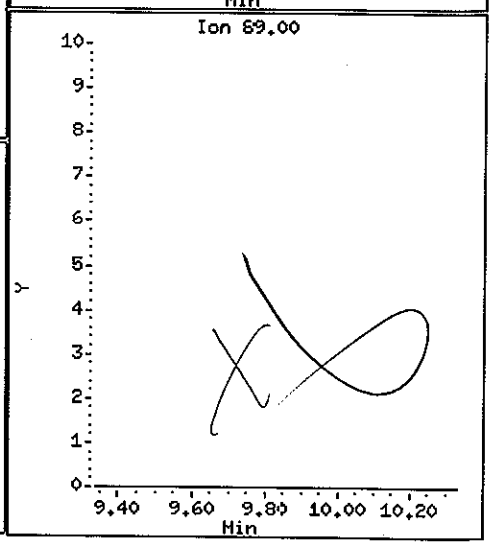












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

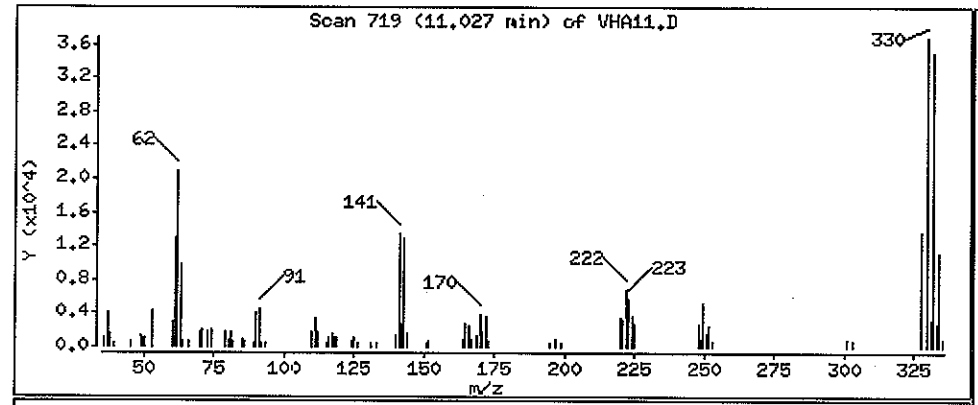
Operator: BVD

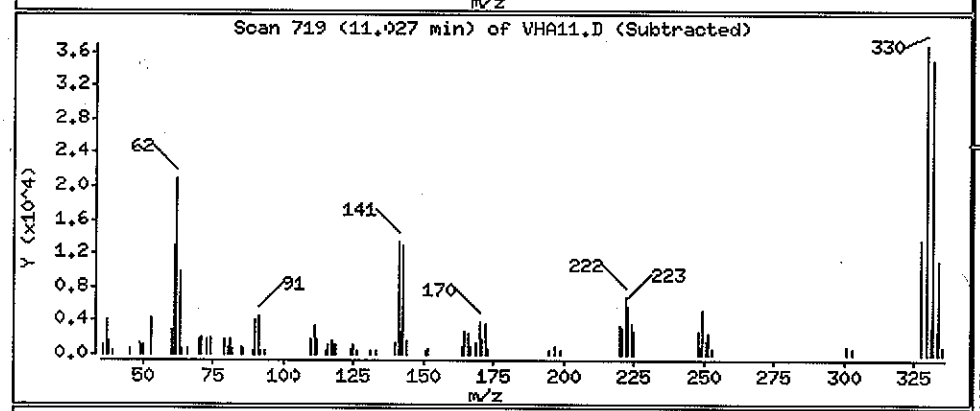
Column phase: Xti 5 x .5 u

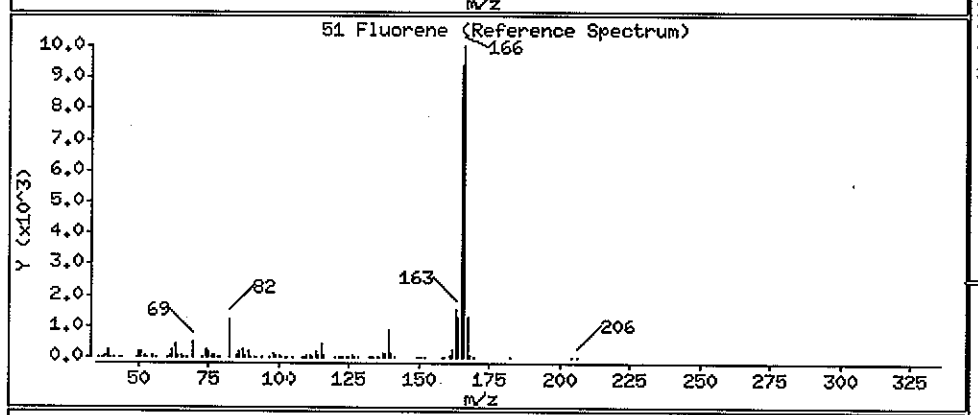
Column diameter: 0.25

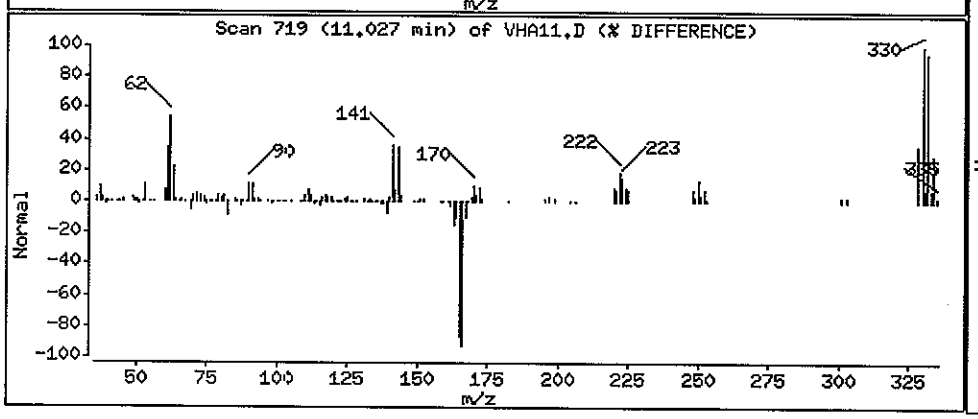
51 Fluorene

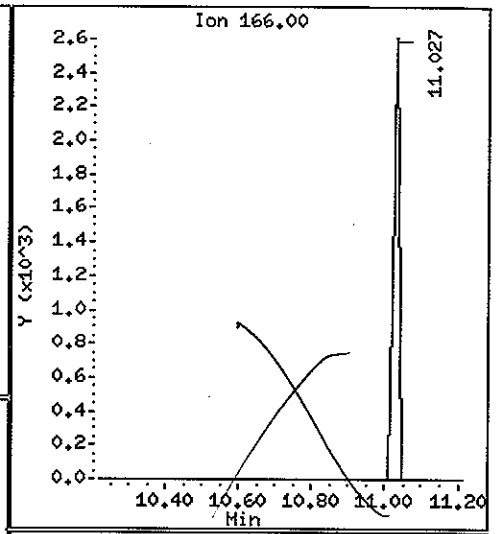
Concentration: 0.5215 ug/L

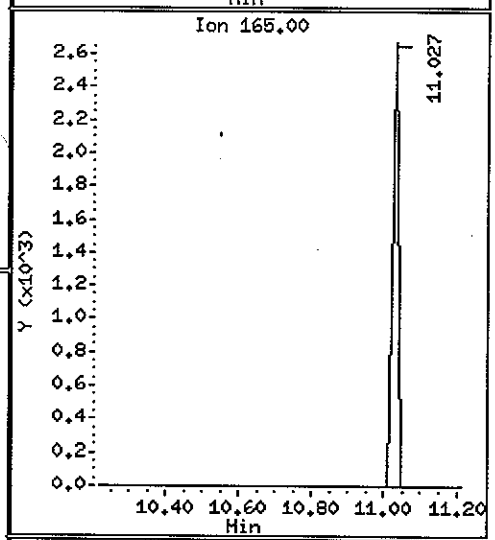


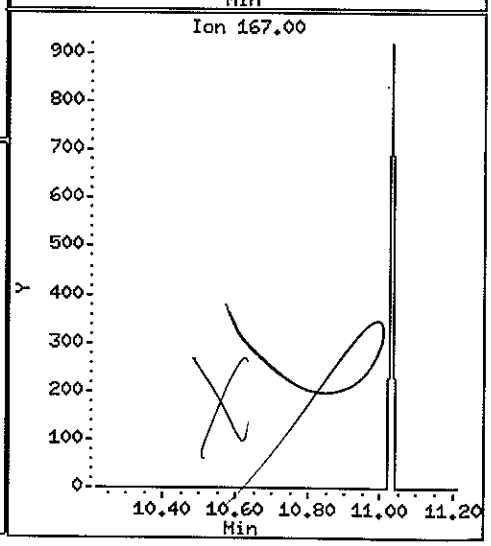












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

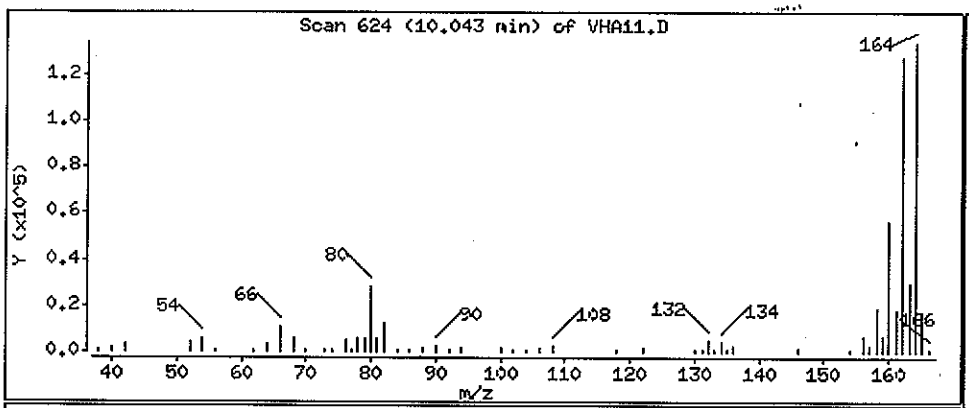
Operator: BVD

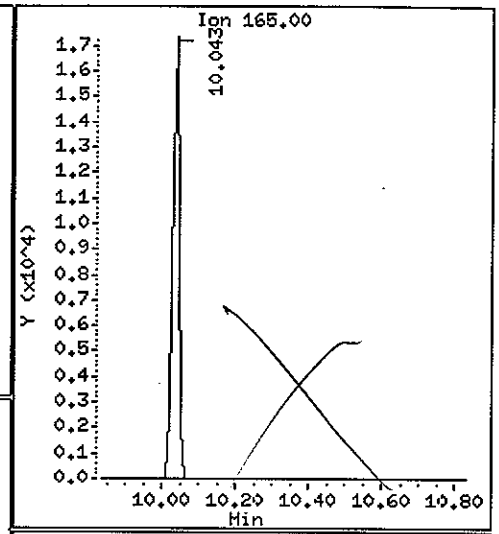
Column phase: Xti 5 x .5 u

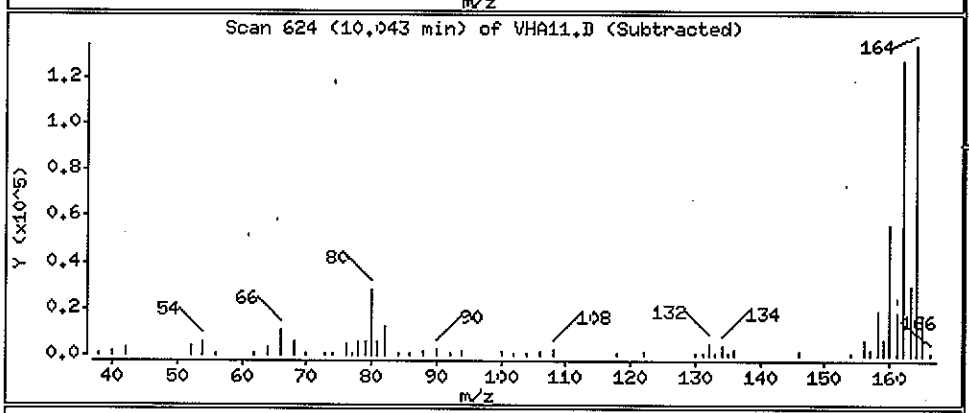
Column diameter: 0.25

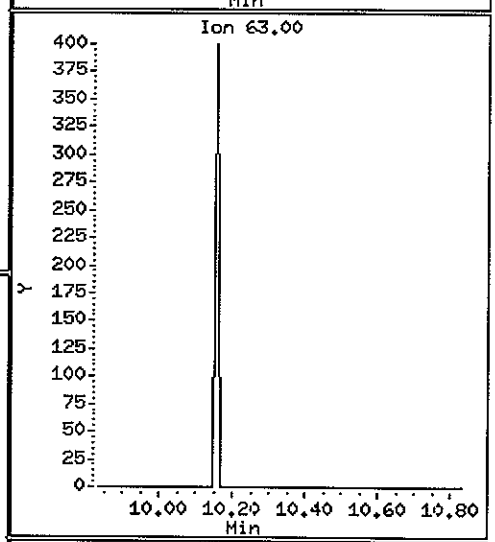
52 2,4-Dinitrotoluene

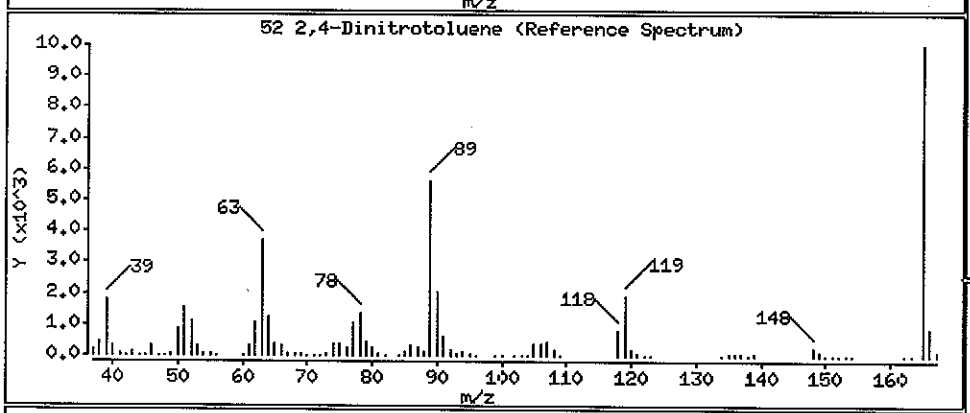
Concentration: 11.7628 ug/L

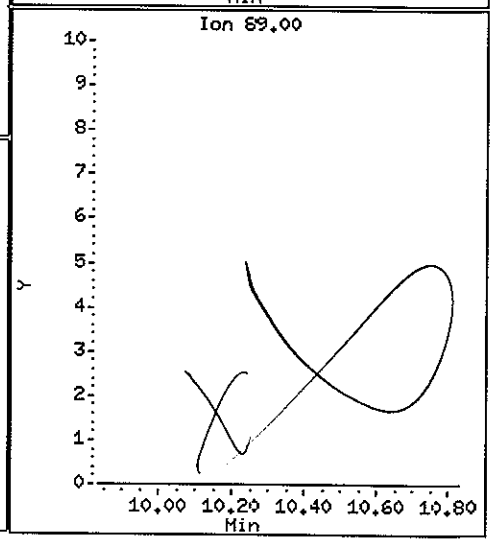


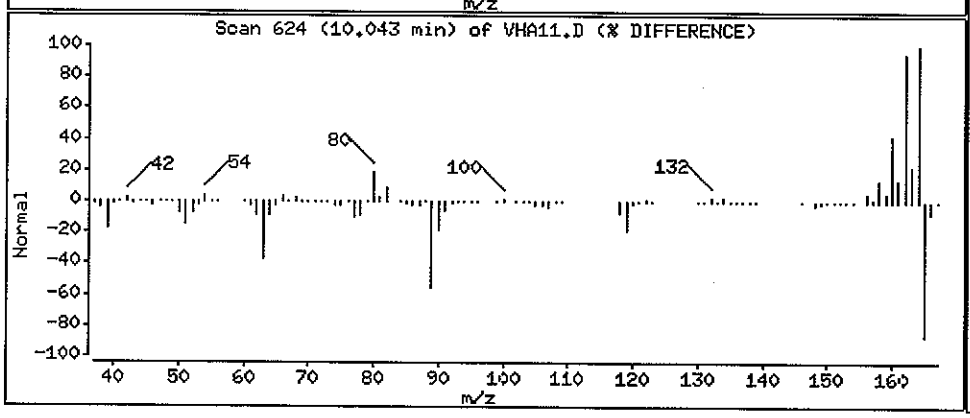












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

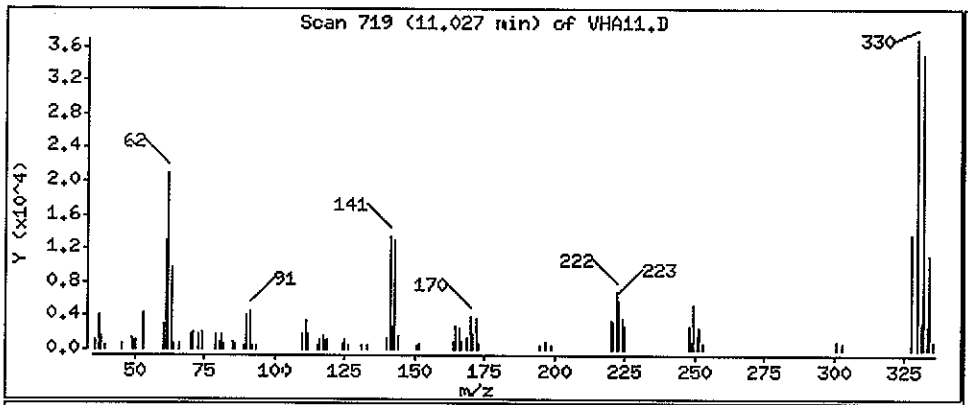
Operator: BVD

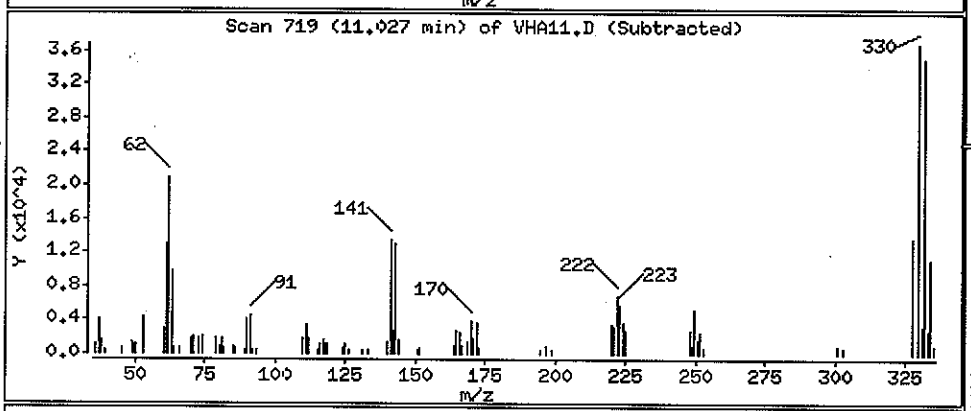
Column phase: Xti 5 x .5 u

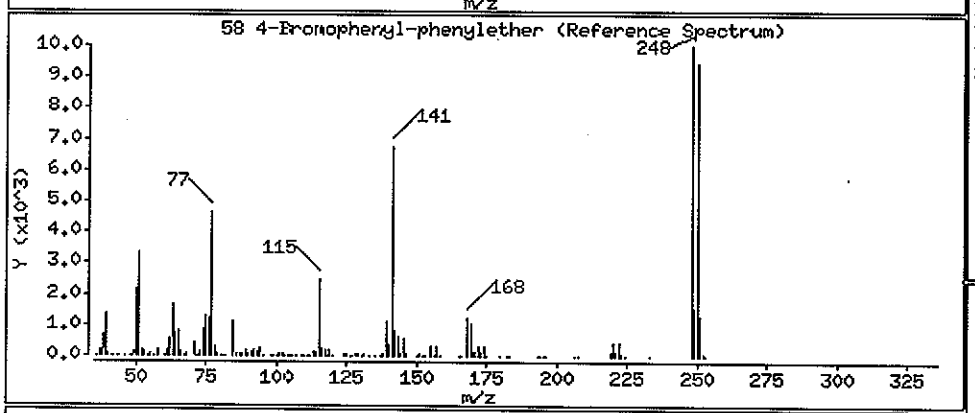
Column diameter: 0.25

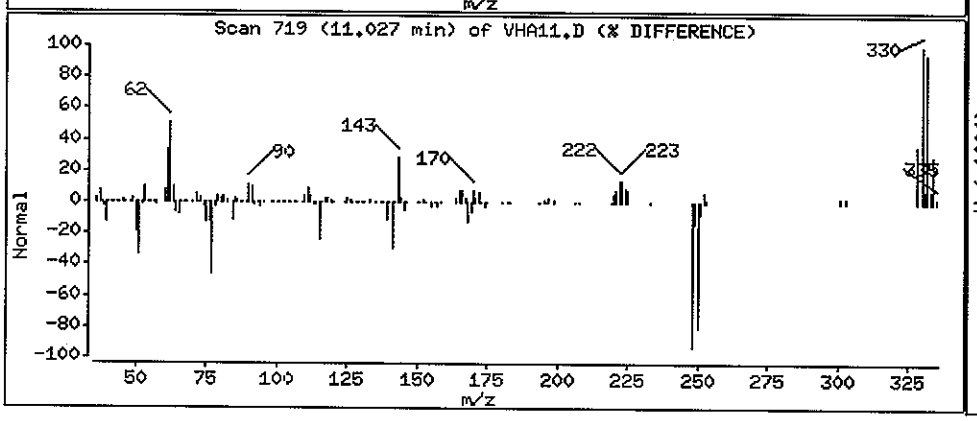
58 4-Bromophenyl-phenylether

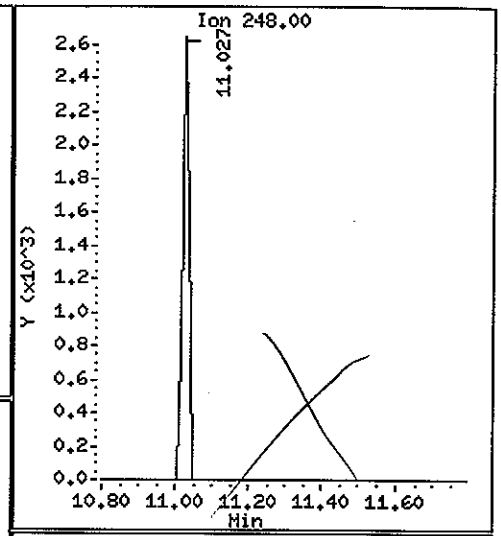
Concentration: 1.8423 ug/L

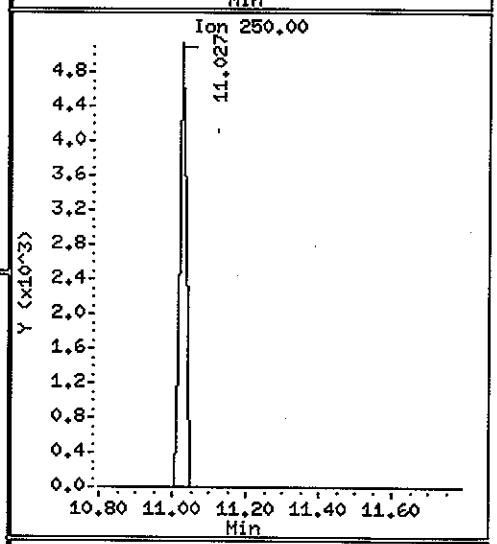


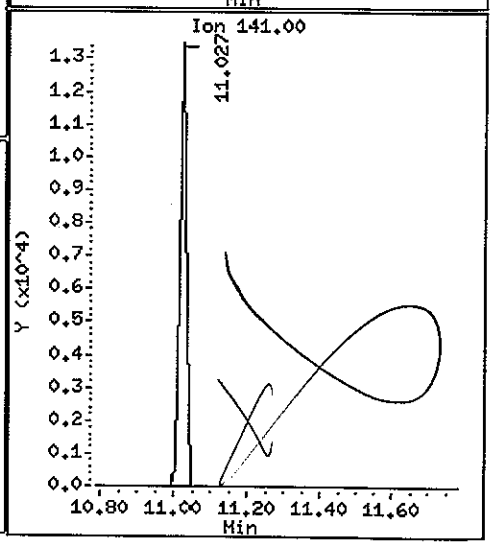












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

Volume Injected (uL): 1.0

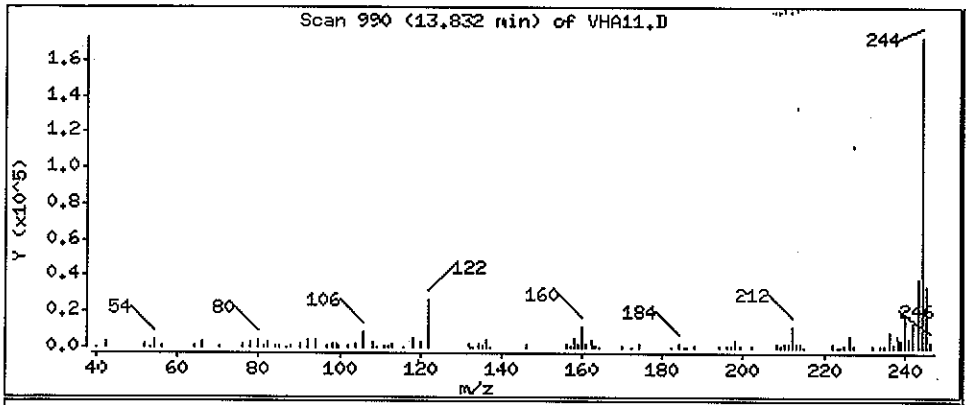
Operator: BVD

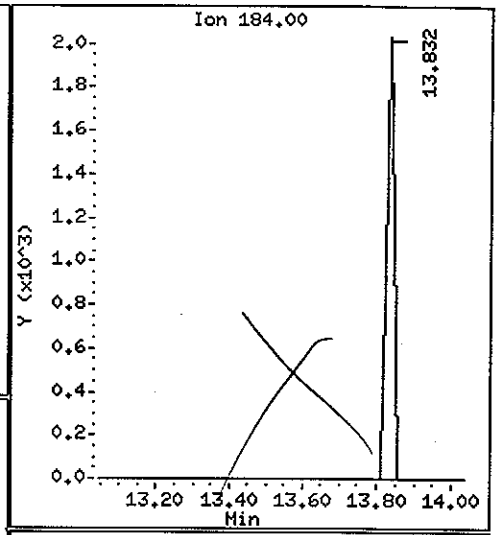
Column phase: Xti 5 x .5 u

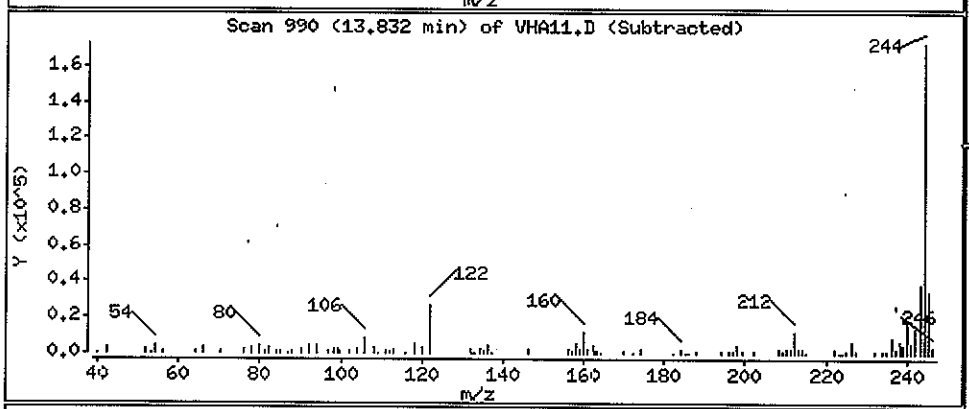
Column diameter: 0.25

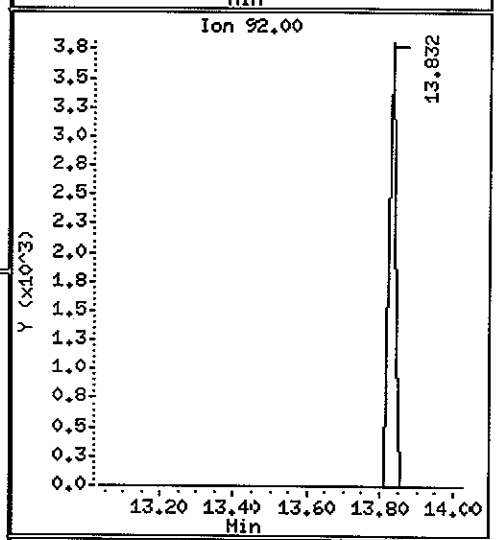
67 Benzidine

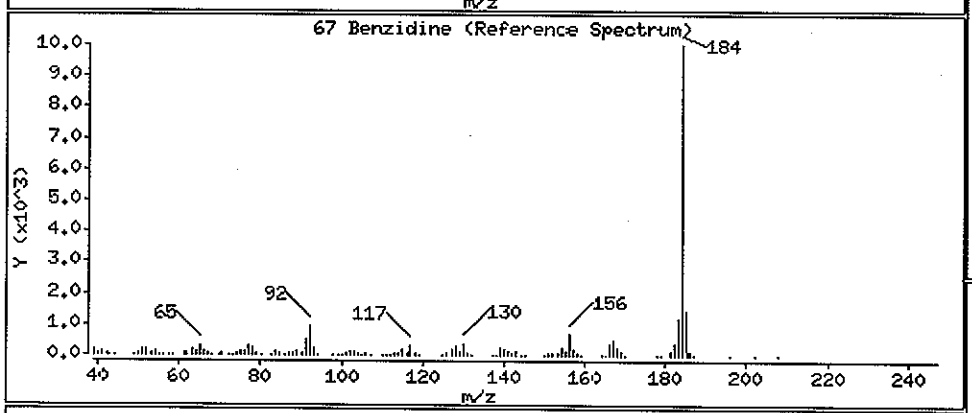
Concentration: 9.8282 ug/L

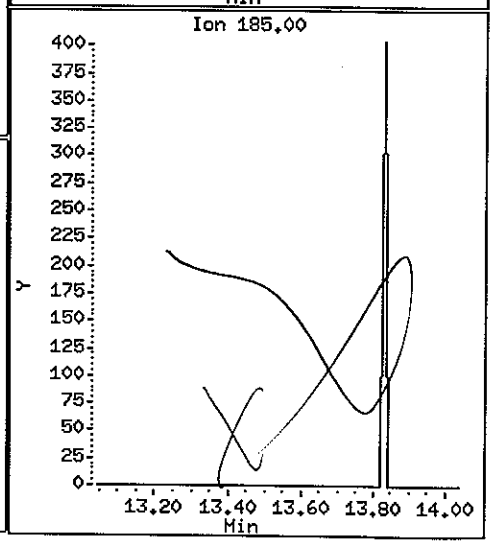


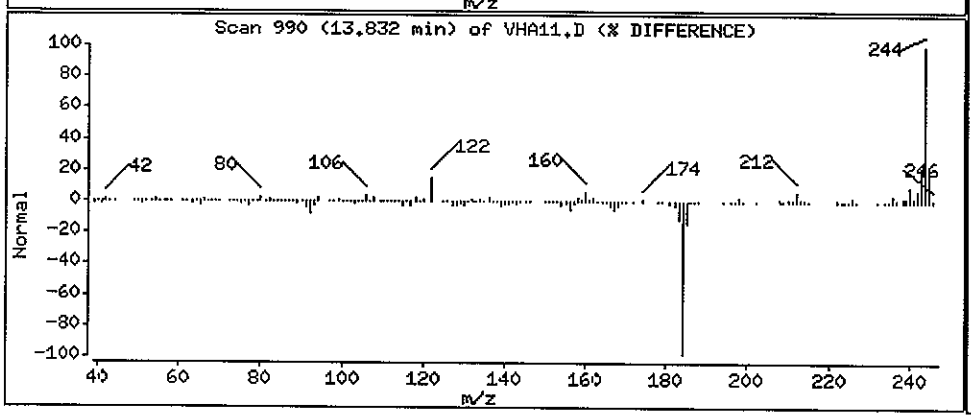












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA11.D

Date : 11-AUG-2004 02:14

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: S,173857-002

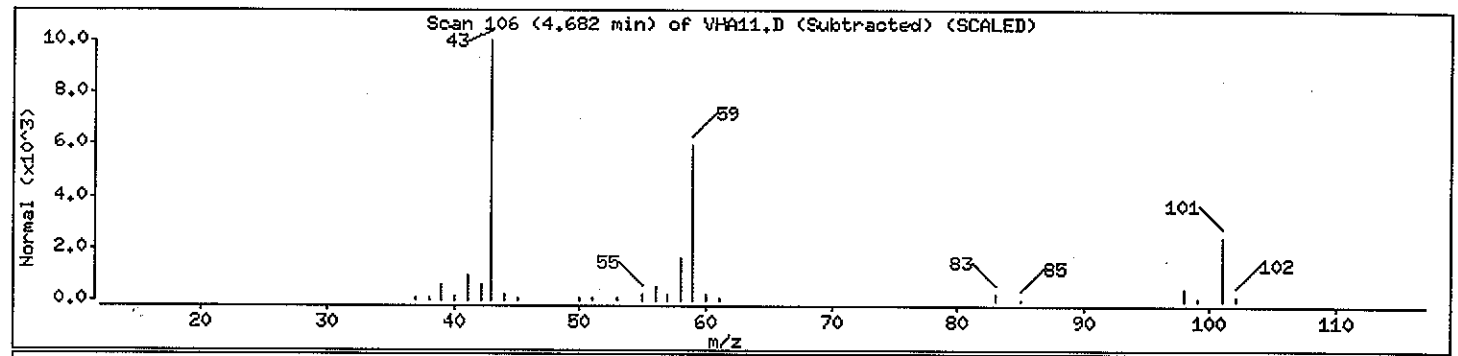
Volume Injected (uL): 1.0

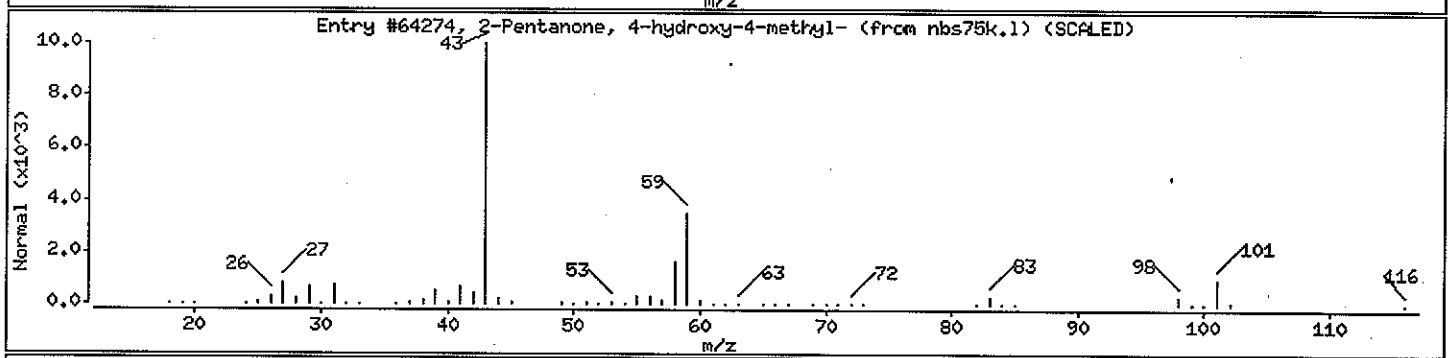
Operator: BVD

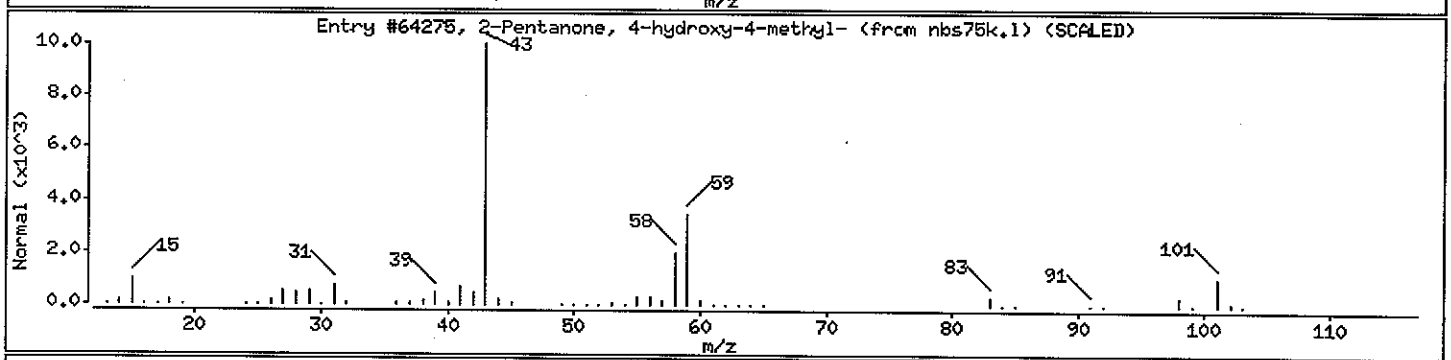
Column phase: Xti 5 x .5 u

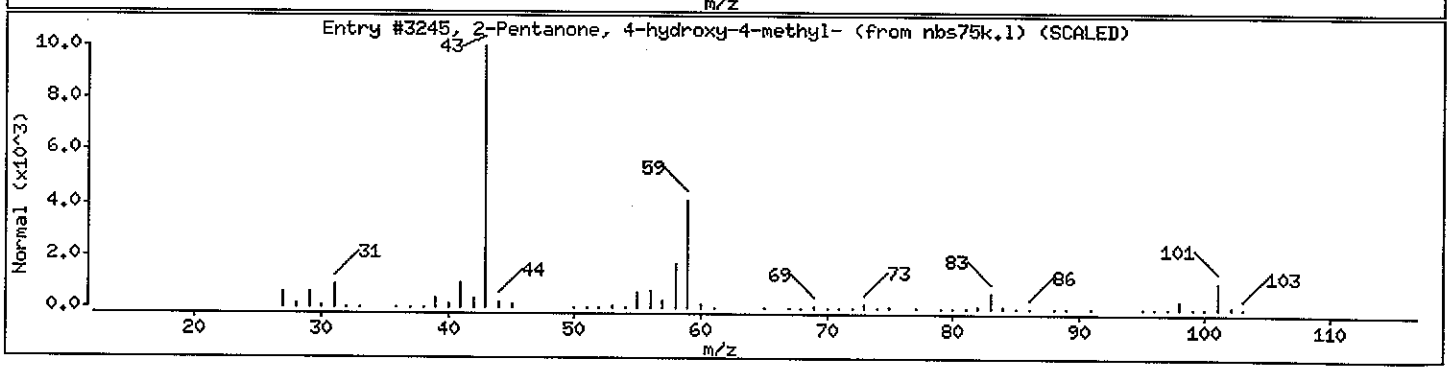
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	38	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	3245	33	C6H12O2	116









QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	QC260755	Cident	:
Seqnum	: 524322155006	Matrix	: Soil	Acctnum	: QC
Filename	: vha06	Batchnum	: 93643	Injected	: 10-AUG-2004 23:11
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Prep: 29.64 g --> 1.0 ml = 0.03374 ml/g PDF

Analyte	Result	RTS	RL	Flags
Phenol	ND		340	
2-Chlorophenol	ND		340	
1,4-Dichlorobenzene	ND		340	
N-Nitroso-di-n-propylamine...	~~290 J~~ ND	0.144	340	x
1,2,4-Trichlorobenzene	ND		340	
4-Chloro-3-methylphenol	ND		340	
Acenaphthene	ND		67	
4-Nitrophenol	ND		670	
2,4-Dinitrotoluene.....	~~400~~ ND	-0.291	340	x
Pentachlorophenol	ND		670	
Pyrene	ND		67	
N-Nitrosodimethylamine	ND		340	
Pyridine	ND		340	
Aniline.....	~~250 J~~ ND	redie	340	B
bis(2-Chloroethyl)ether	ND		340	
1,3-Dichlorobenzene	ND		340	
Benzyl alcohol	ND		340	
1,2-Dichlorobenzene	ND		340	
2-Methylphenol	ND		340	
bis(2-Chloroisopropyl) ether	ND		340	
4-Methylphenol	ND		670	
Hexachloroethane	ND		340	
Nitrobenzene	ND		340	
Isophorone.....	~~590~~ ND	-0.311	340	x
2-Nitrophenol	ND		670	
2,4-Dimethylphenol	ND		340	
Benzoic acid	ND		1700	
bis(2-Chloroethoxy)methane	ND		340	
2,4-Dichlorophenol	ND		340	
Naphthalene	ND		67	
4-Chloroaniline	ND		340	
Hexachlorobutadiene	ND		340	
2-Methylnaphthalene	ND		67	
Hexachlorocyclopentadiene	ND		1700	
2,4,6-Trichlorophenol	ND		340	
2,4,5-Trichlorophenol	ND		340	
2-Chloronaphthalene	ND		340	
2-Nitroaniline	ND		670	
Dimethylphthalate.....	~~210 J~~ ND	0.309	340	x
Acenaphthylene	ND		67	
2,6-Dinitrotoluene.....	~~520~~ ND	0.195	340	x
3-Nitroaniline	ND		670	

!=warning +=high bias -=low bias B=method blank contamination b=noncompliant c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

08/10/04

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	QC260755	Cident	:
Seqnum	: 524322155006	Matrix	: Soil	Acctnum	: QC
Filename	: vha06	Batchnum	: 93643	Injected	: 10-AUG-2004 23:11
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

Analyte	Result	RTS	RL	Flags
2,4-Dinitrophenol	ND		1700	
Dibenzofuran	ND		**340**	y
Diethylphthalate	ND		340	
Fluorene	ND		67	
4-Chlorophenyl-phenylether	ND		340	
4-Nitroaniline	ND		670	!c+ v-
4,6-Dinitro-2-methylphenol	ND		1700	
N-Nitrosodiphenylamine	ND		340	
Azobenzene	ND		340	
4-Bromophenyl-phenylether	ND		340	
Hexachlorobenzene	ND		340	
Phenanthrene	ND		67	
Anthracene	ND		67	
Carbazole	ND		1700	v-
Di-n-butylphthalate	ND		340	
Fluoranthene	ND		67	
Benzidine	ND		1700	c+ irf rsd v- b*
Butylbenzylphthalate	ND		340	
3,3'-Dichlorobenzidine	ND		670	
Benzo(a)anthracene	ND		67	
Chrysene	ND		67	
bis(2-Ethylhexyl)phthalate	ND		340	
Di-n-octylphthalate	ND		340	
Benzo(b)fluoranthene	ND		67	
Benzo(k)fluoranthene	ND		67	
Benzo(a)pyrene	ND		67	
Indeno(1,2,3-cd)pyrene	ND		67	
Dibenz(a,h)anthracene	ND		67	
Benzo(g,h,i)perylene	ND		67	!v-

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3374	2225	66	33-120	
Phenol-d5	3374	2103	62	31-120	
2,4,6-Tribromophenol	3374	1438	43	32-120	
Nitrobenzene-d5	1687	1056	63	43-120	
2-Fluorobiphenyl	1687	1207	72	48-120	
Terphenyl-d14	1687	922.1	55	37-120	

08/10/04

!=warning +=high bias -=low bias B=method blank contamination b=noncompliant c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	QC260755	Cident	:
Seqnum	: 524322155006	Matrix	: Soil	Acctnum	: QC
Filename	: vha06	Batchnum	: 93643	Injected	: 10-AUG-2004 23:11
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524285642001	Caldate	: 16-JUL-2004	Caltype	:

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	73872	30.69	6.36	6.36	0.00
Naphthalene-d8	216443	267798	23.73	7.87	7.86	-0.01
Acenaphthene-d10	131753	157543	19.57	10.04	10.04	0.00
Phenanthrene-d10	227010	273648	20.54	11.89	11.87	-0.02
Chrysene-d12	220115	283527	28.81	15.42	15.39	-0.03
Perylene-d12	182792	246672	34.95	18.66	18.63	-0.03

08/10/

!=warning +=high bias -=low bias B=method blank contamination b=noncompliant c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D
Report Date: 11-Aug-2004 00:05

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-AUG-2004 23:11 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MB,QC260755
Misc Info : 93643,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.023	4.992	(0.790)	150696	65.9421	65.9420
$ 4 Phenol-d5	99	5.964	5.965	(0.938)	189362	62.3235	62.3234
6 Aniline	66	5.964	6.048	(0.938)	9120	7.27196	7.2719
* 10 1,4-Dichlorobenzene-d4	152	6.358	6.359	(1.000)	73872	40.0000	
17 N-Nitroso-di-n-propylamine	70	7.020	6.876	(1.104)	12530	8.65251	8.6525
$ 19 Nitrobenzene-d5	82	7.020	7.042	(0.893)	91247	31.3071	31.3071
21 Isophorone	82	7.020	7.332	(0.893)	91247	17.4624	17.4624
* 28 Naphthalene-d8	136	7.858	7.870	(1.000)	267798	40.0000	
$ 37 2-Fluorobiphenyl	172	9.173	9.184	(0.913)	172384	35.7827	35.7826
40 Dimethylphthalate	163	10.042	9.733	(1.000)	34216	6.24004	6.2400
41 2,6-Dinitrotoluene	165	10.042	9.847	(1.000)	20803	15.3537	15.3536
* 44 Acenaphthene-d10	164	10.042	10.043	(1.000)	157543	40.0000	
52 2,4-Dinitrotoluene	165	10.042	10.333	(1.000)	20803	11.8400	11.8400
$ 57 2,4,6-Tribromophenol	330	11.036	11.047	(1.099)	42075	42.6081	42.6080

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D
Report Date: 11-Aug-2004 00:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 61 Phenanthrene-d10	188	11.874	11.886	(1.000)	273648	40.0000	
$ 69 Terphenyl-d14	244	13.830	13.842	(0.898)	210164	27.3321	27.3321
* 74 Chrysene-d12	240	15.393	15.415	(1.000)	283527	40.0000	
* 80 Perylene-d12	264	18.633	18.655	(1.000)	246672	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D
Report Date: 11-Aug-2004 00:05

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-AUG-2004 23:11 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MB,QC260755
Misc Info : 93643,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	6.358	423176	40.000

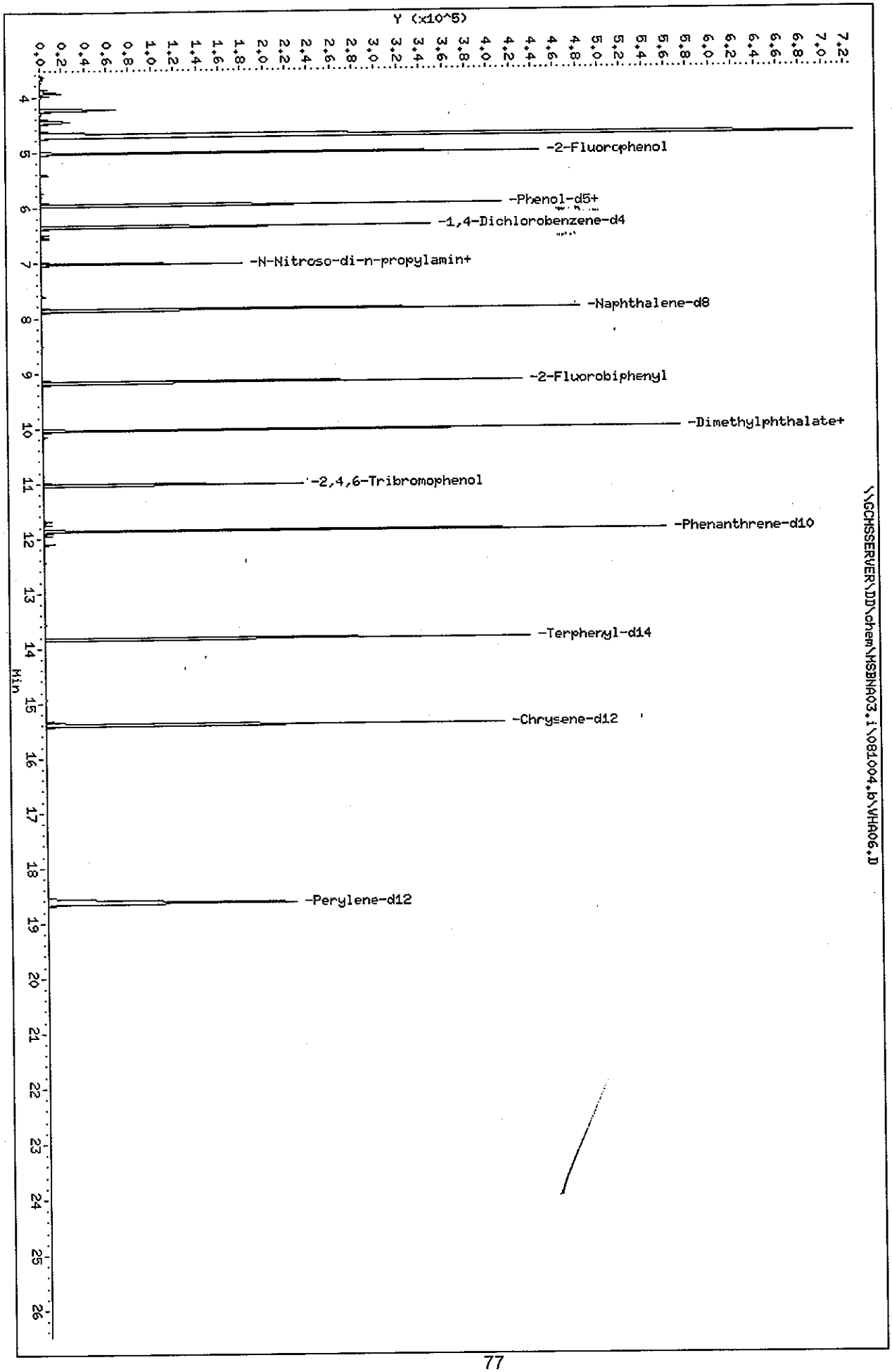
RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
3-Penten-2-one, 4-methyl-				CAS #: 141-79-7			
4.236	109355	10.3365975	10.3365	91	nbs75k.l	1302	10
Unknown				CAS #:			
4.443	55437	5.24008923	5.2400	0		0	10

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D
Report Date: 11-Aug-2004 00:05

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
4.722	2329847	220.224871	220.2248	39	nbs75k.l	64274	10

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D
Date : 10-AUG-2004 23:11
Client ID: CURTIS&TOMPKINS
Sample Info: MB,QC260755
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



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Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

Volume Injected (uL): 1.0

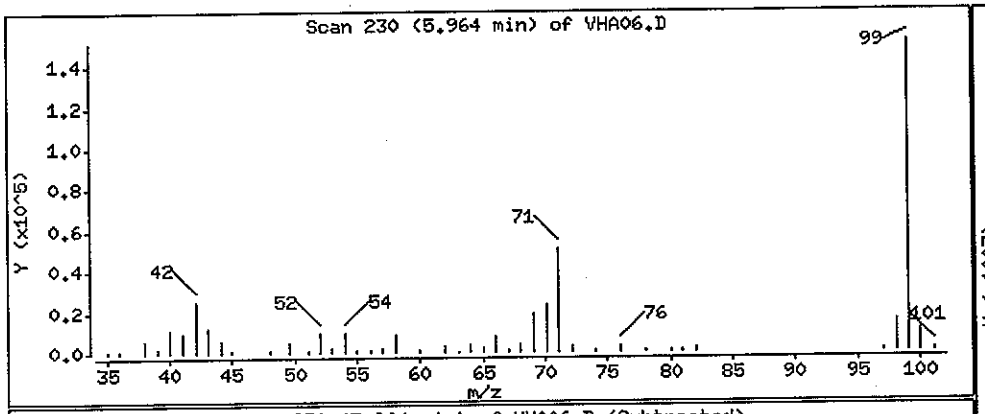
Operator: BVD

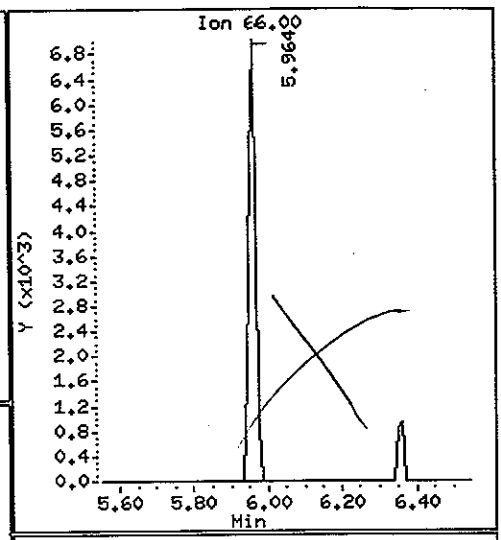
Column phase: Xti 5 x .5 u

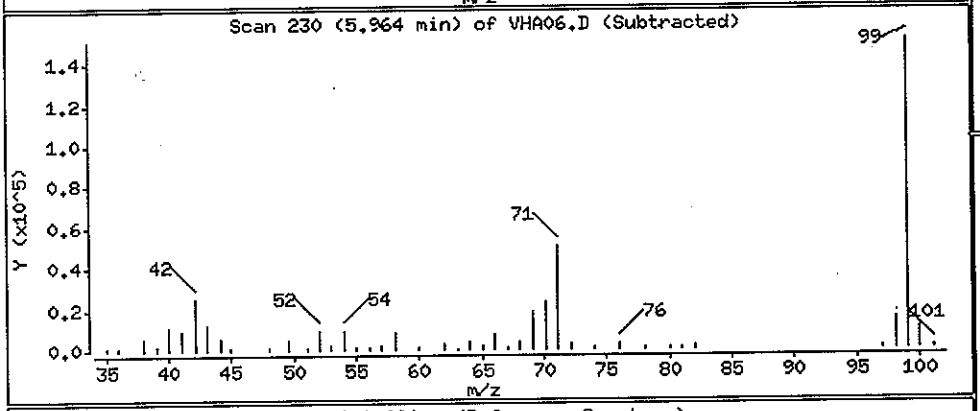
Column diameter: 0.25

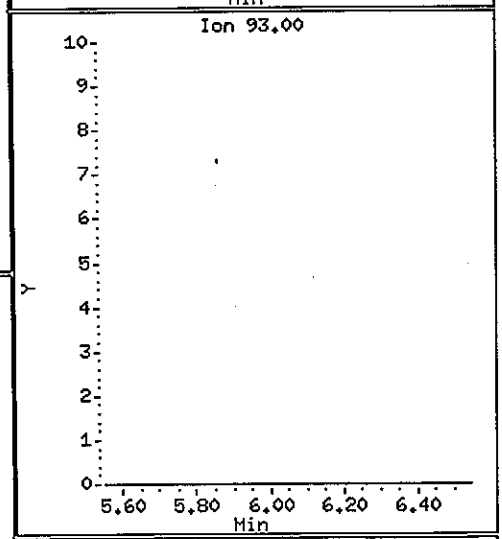
6 Aniline

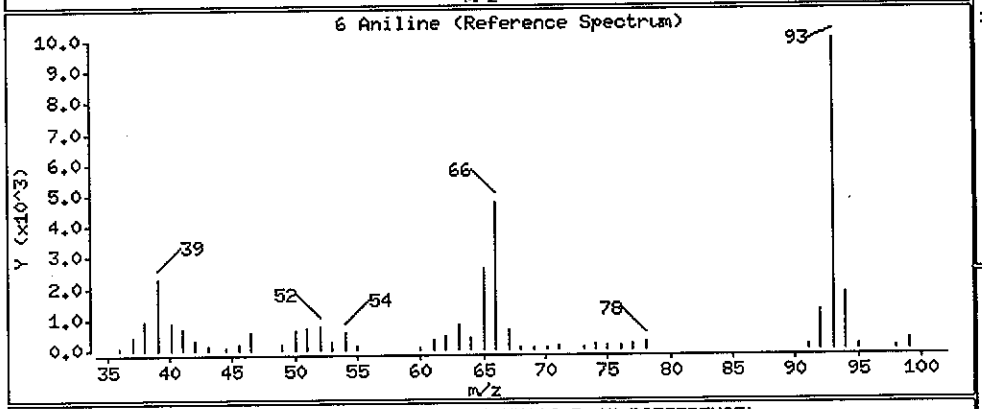
Concentration: 7.2719 ug/L

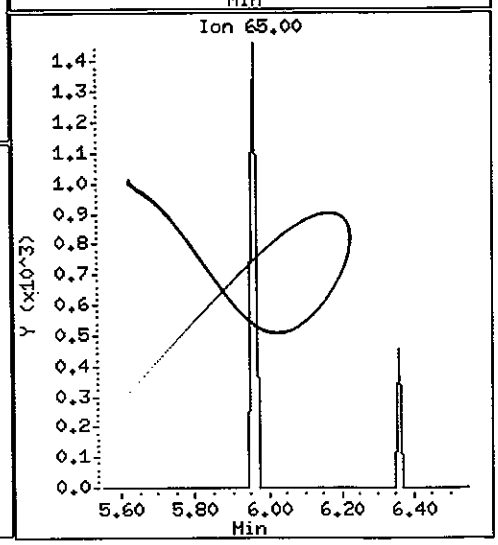


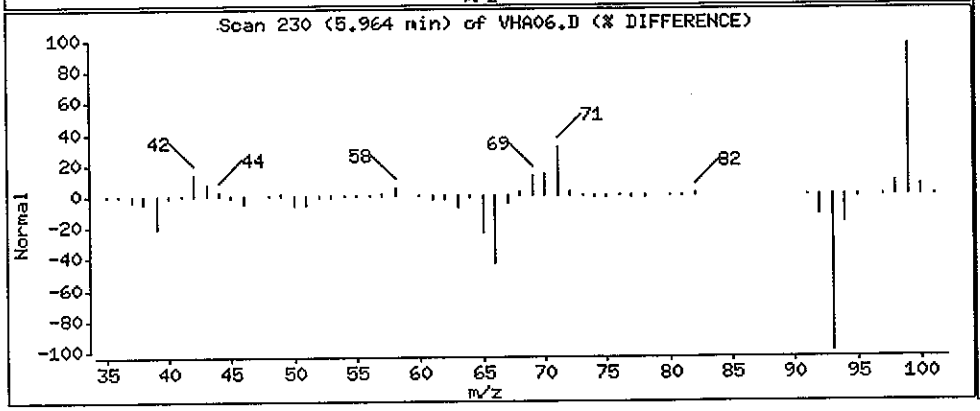












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

Volume Injected (uL): 1.0

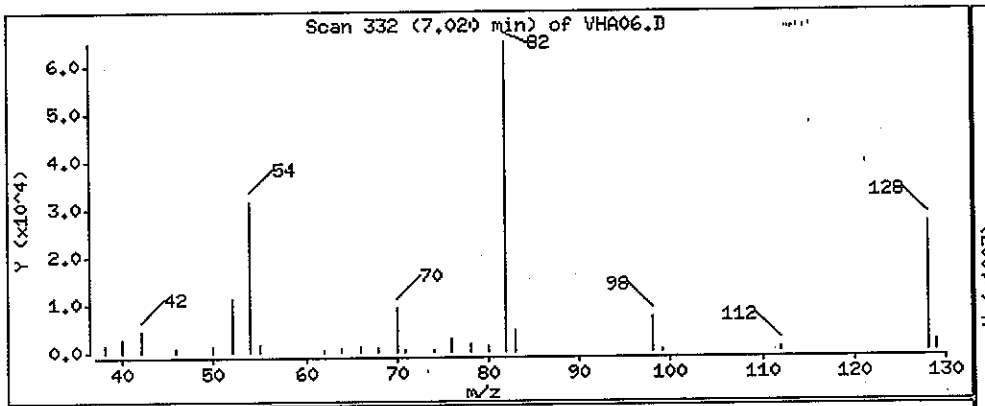
Operator: BVD

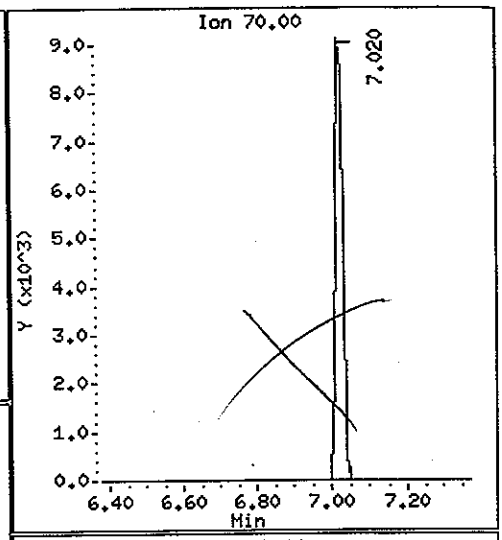
Column phase: Xti 5 x .5 u

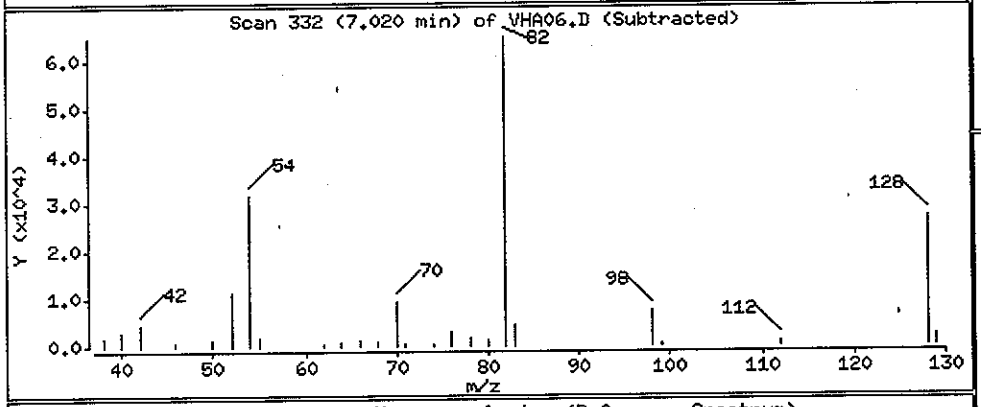
Column diameter: 0.25

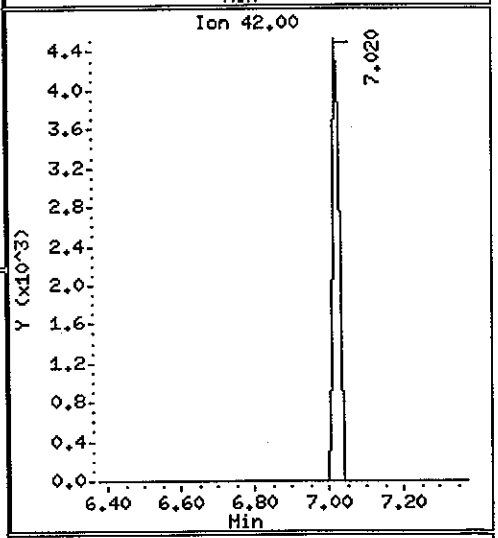
17 N-Nitroso-di-n-propylamine

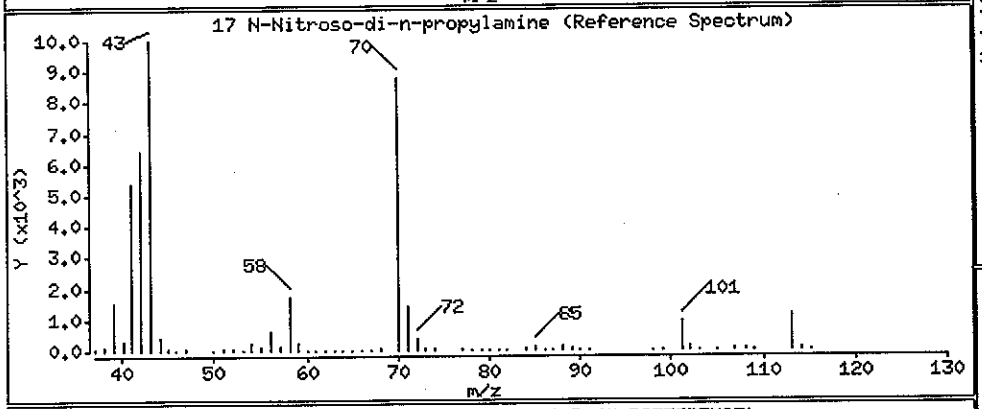
Concentration: 8.6525 ug/L

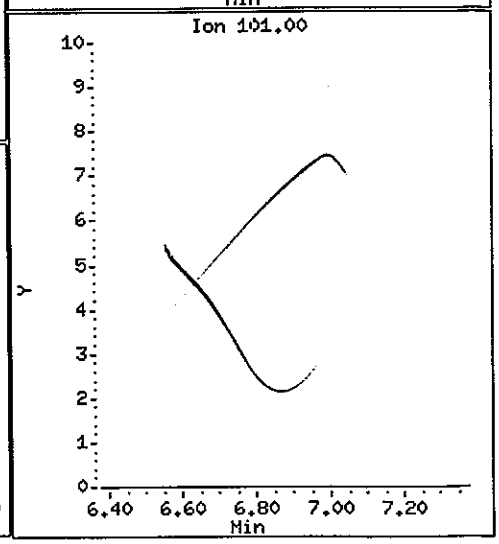


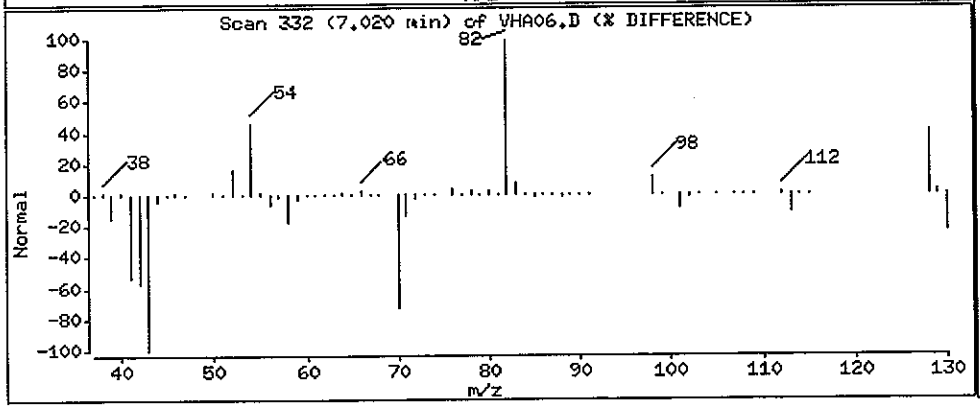












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

Volume Injected (uL): 1.0

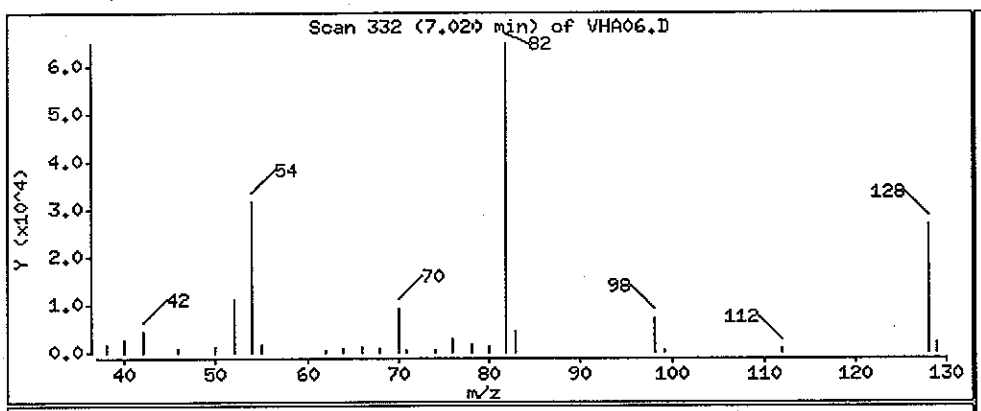
Operator: BVD

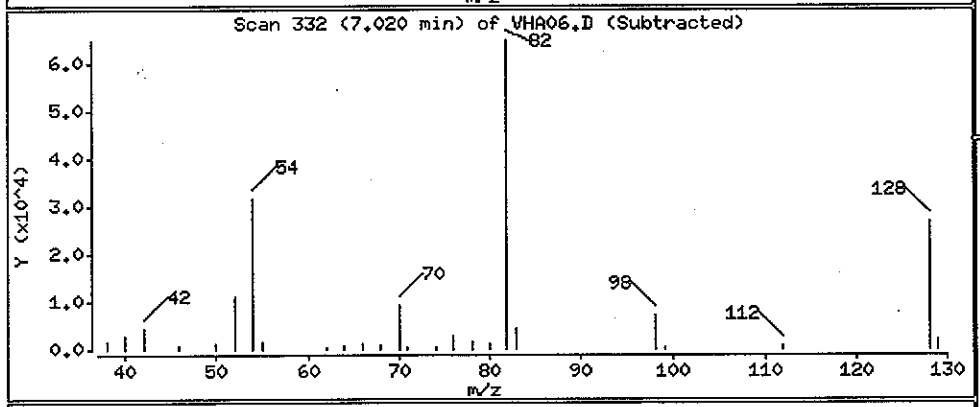
Column phase: Xti 5 x .5 u

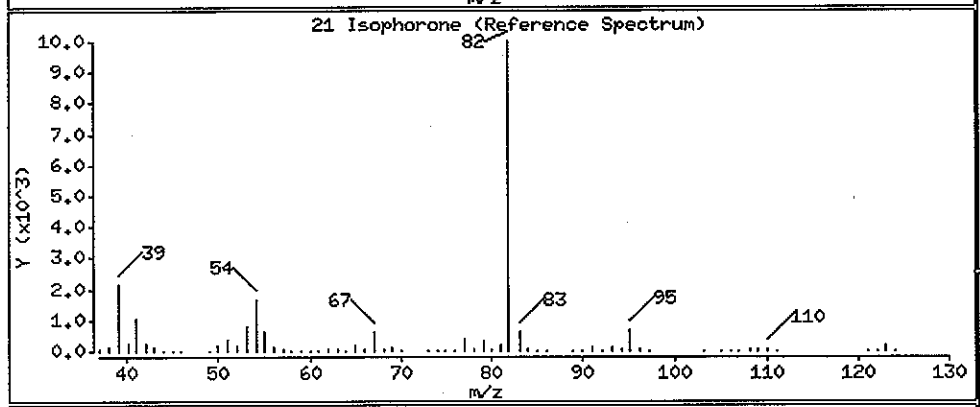
Column diameter: 0.25

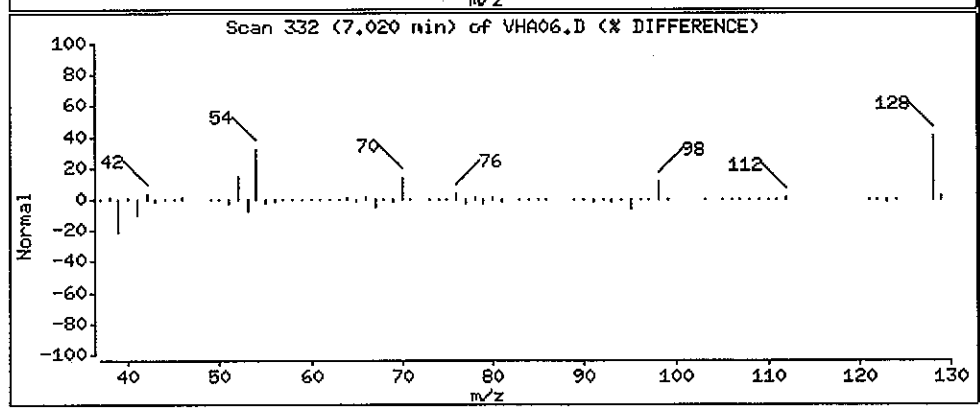
21 Isophorone

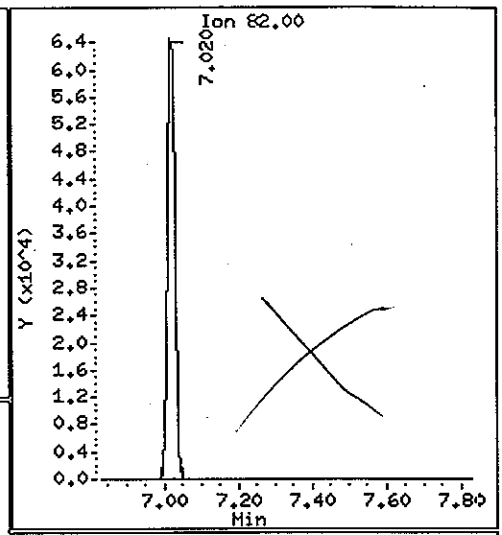
Concentration: 17.4624 ug/L

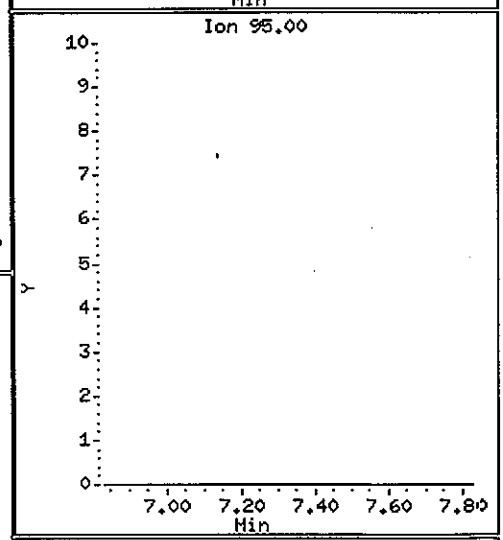


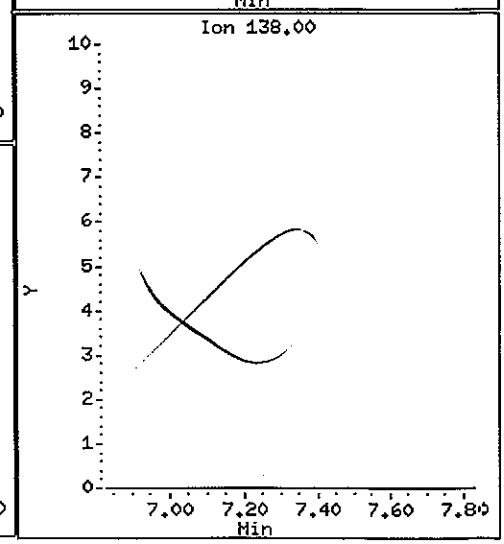












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

Volume Injected (uL): 1.0

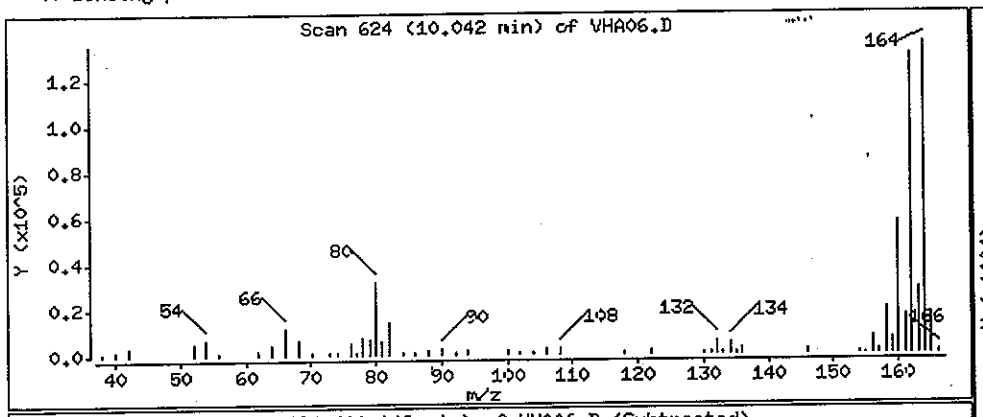
Operator: BVD

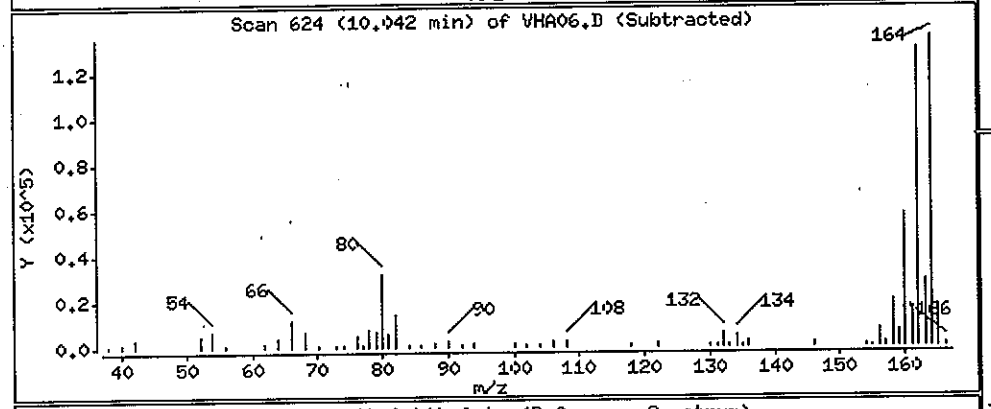
Column phase: Xti 5 x .5 u

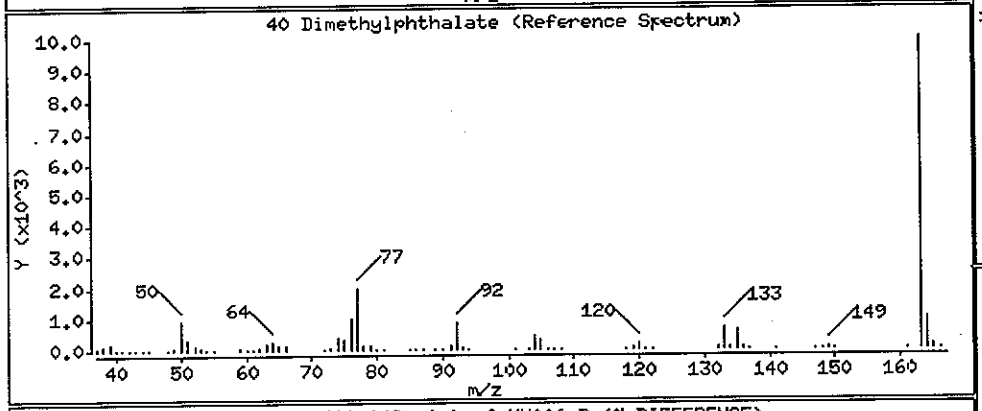
Column diameter: 0.25

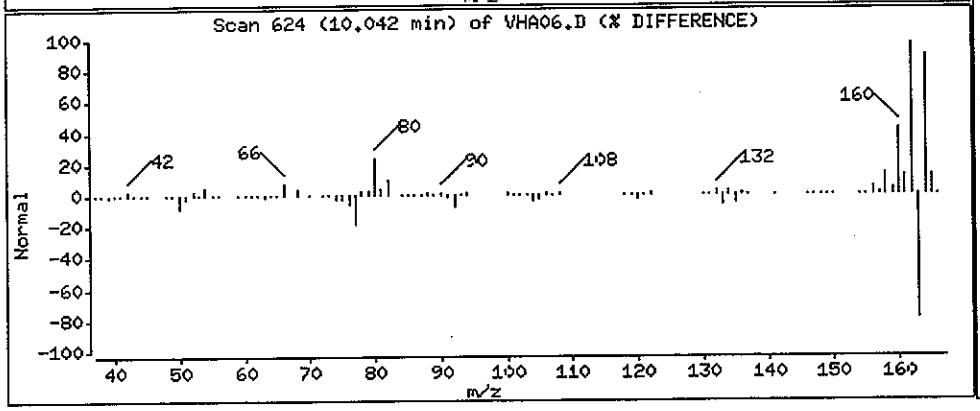
40 Dimethylphthalate

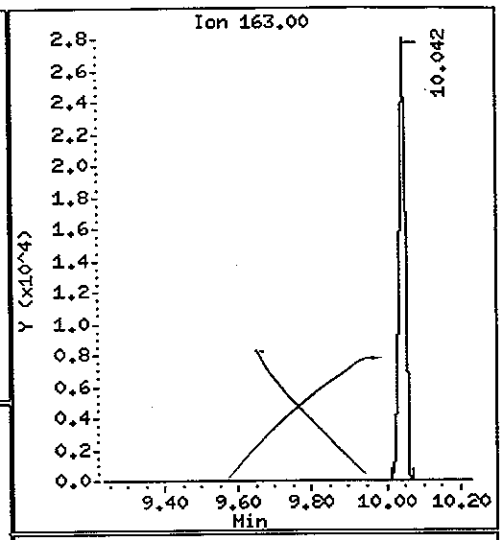
Concentration: 6.2400 ug/L

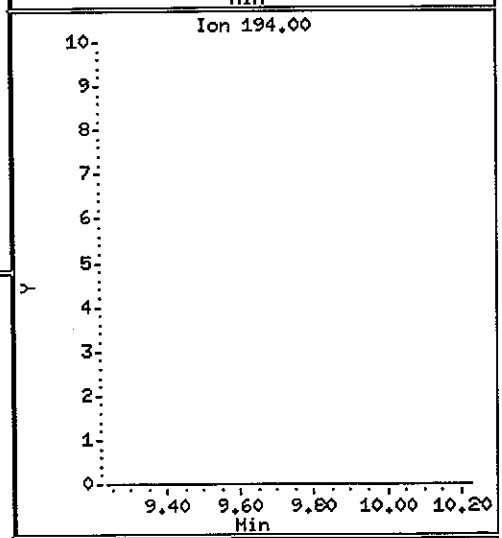


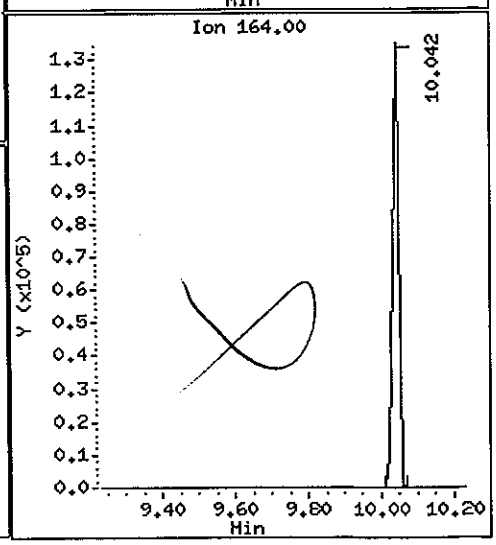












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

Volume Injected (uL): 1.0

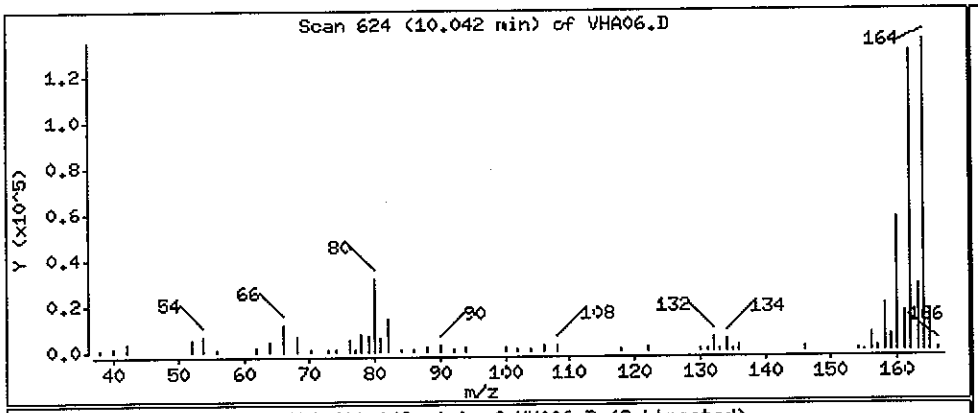
Operator: BVD

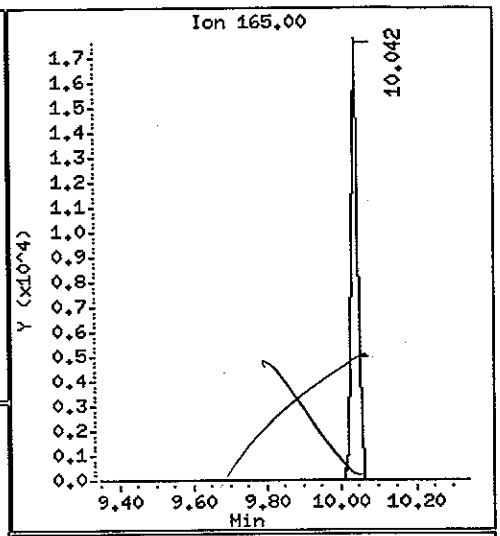
Column phase: Xti 5 x .5 u

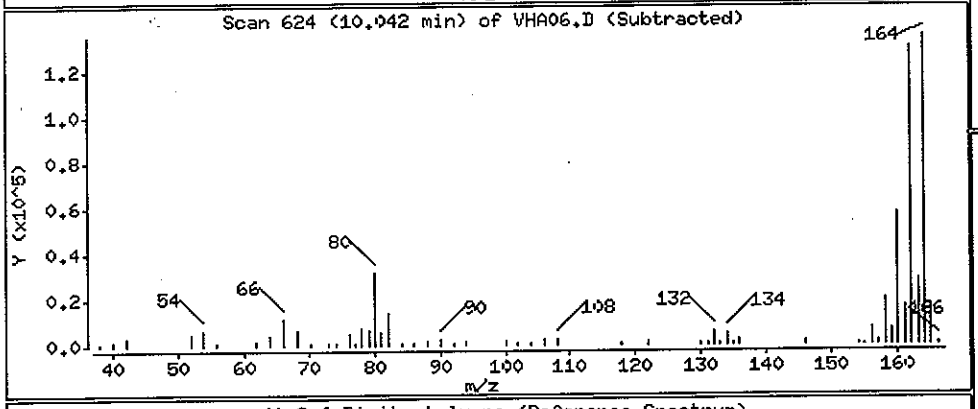
Column diameter: 0.25

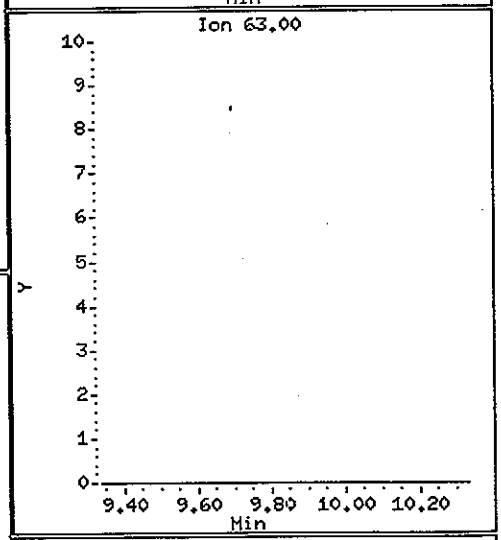
41 2,6-Dinitrotoluene

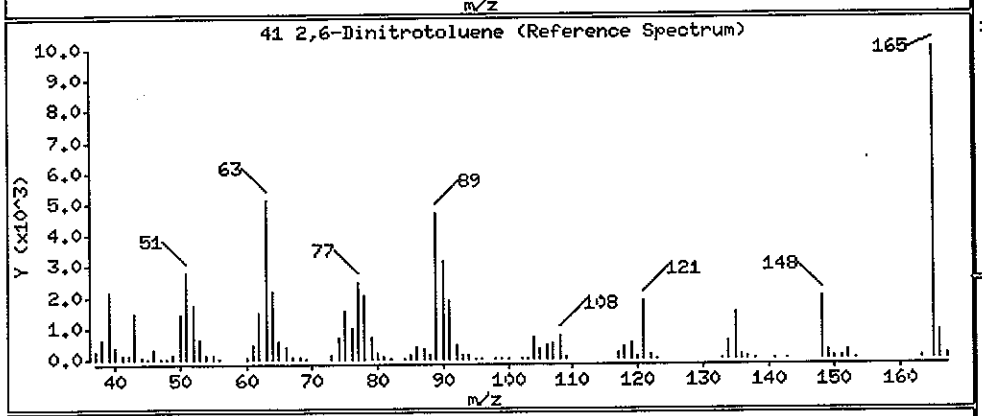
Concentration: 15.3536 ug/L

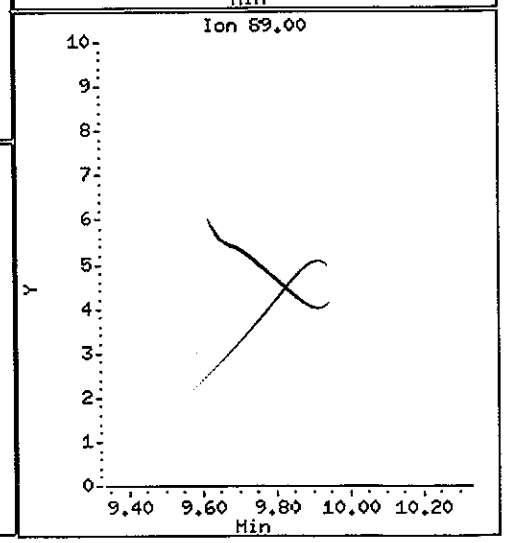


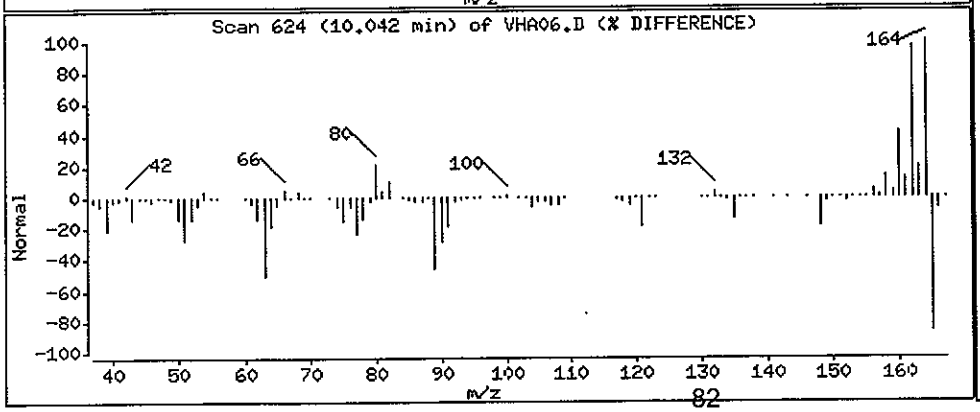












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

Volume Injected (uL): 1.0

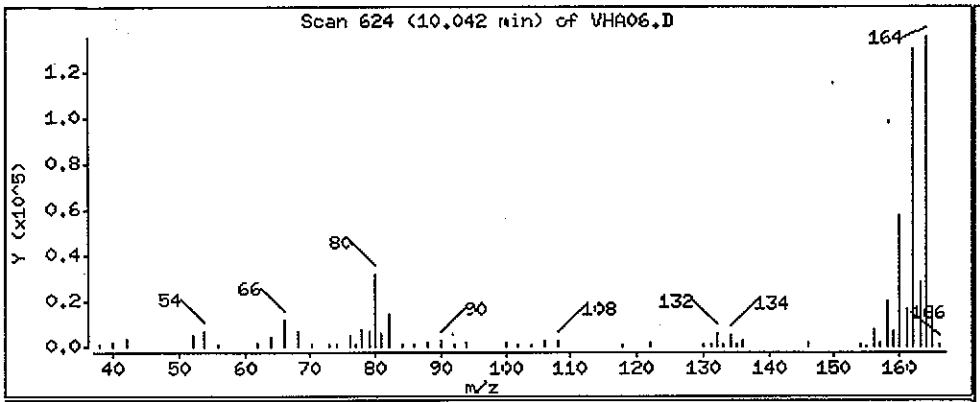
Operator: BVD

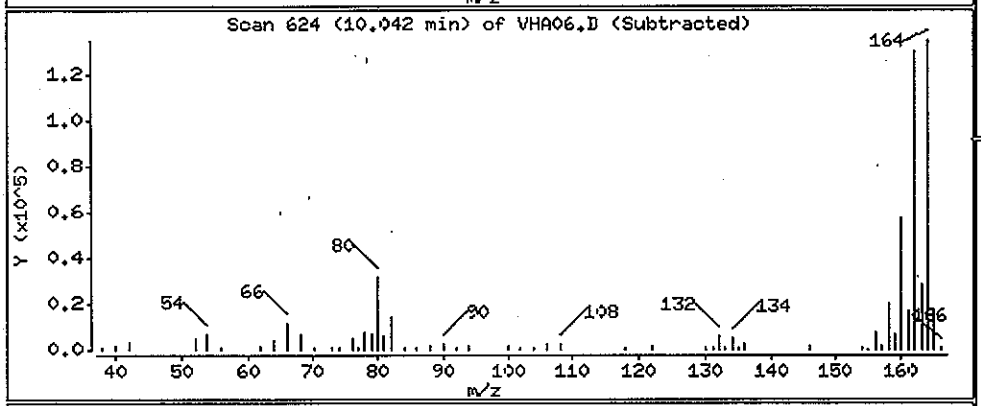
Column phase: Xti 5 x .5 u

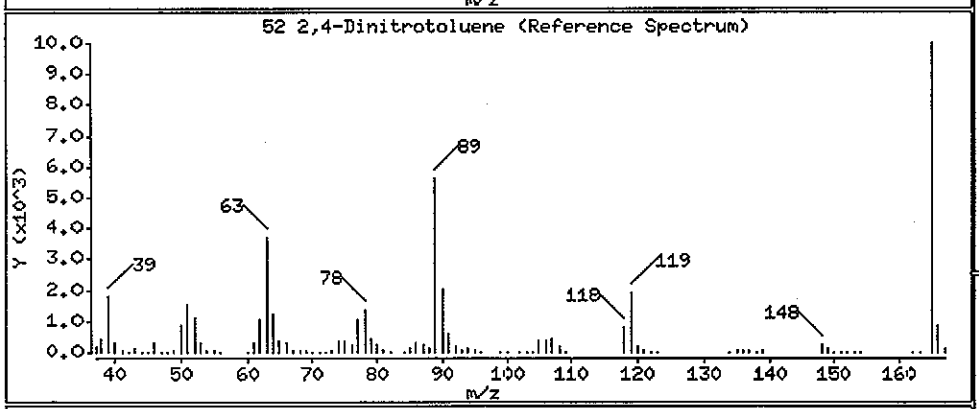
Column diameter: 0.25

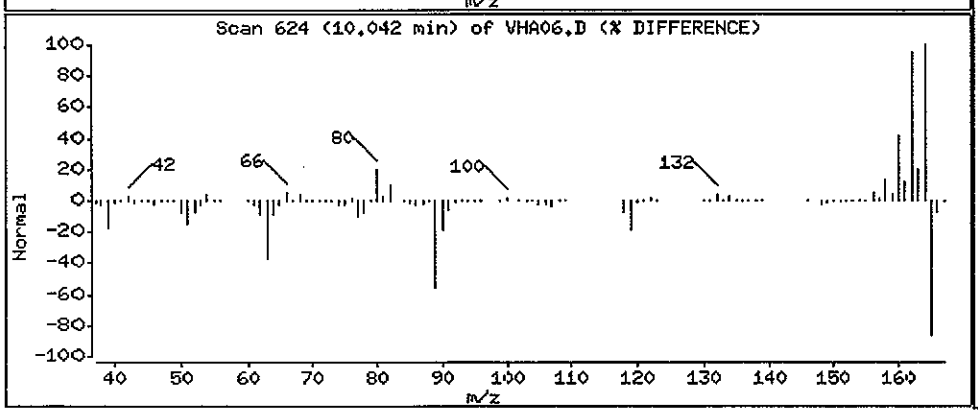
52 2,4-Dinitrotoluene

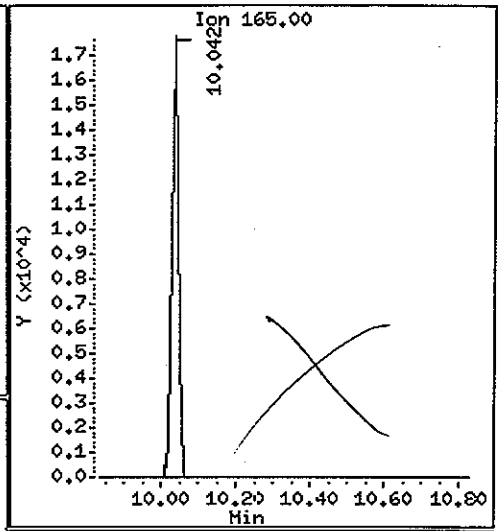
Concentration: 11.8400 ug/L

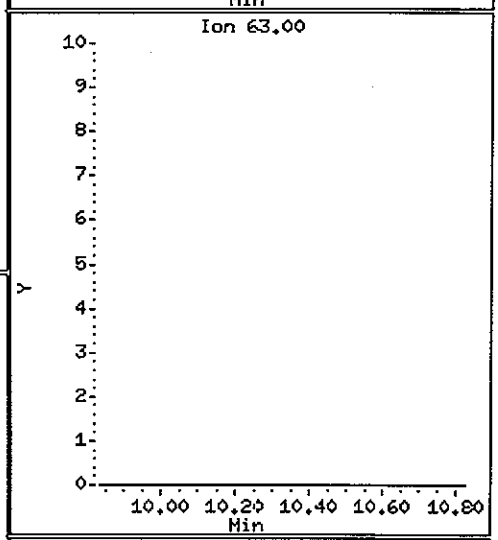


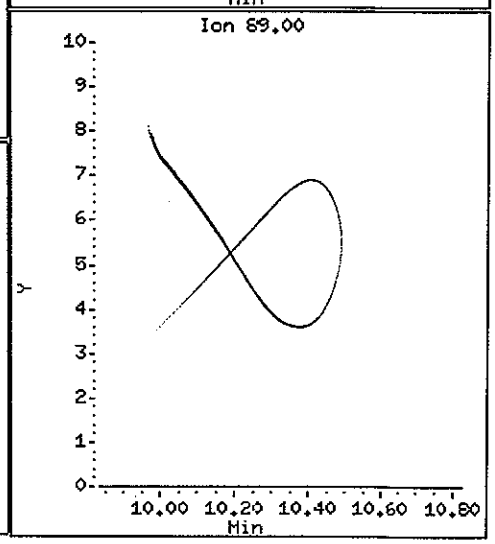












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

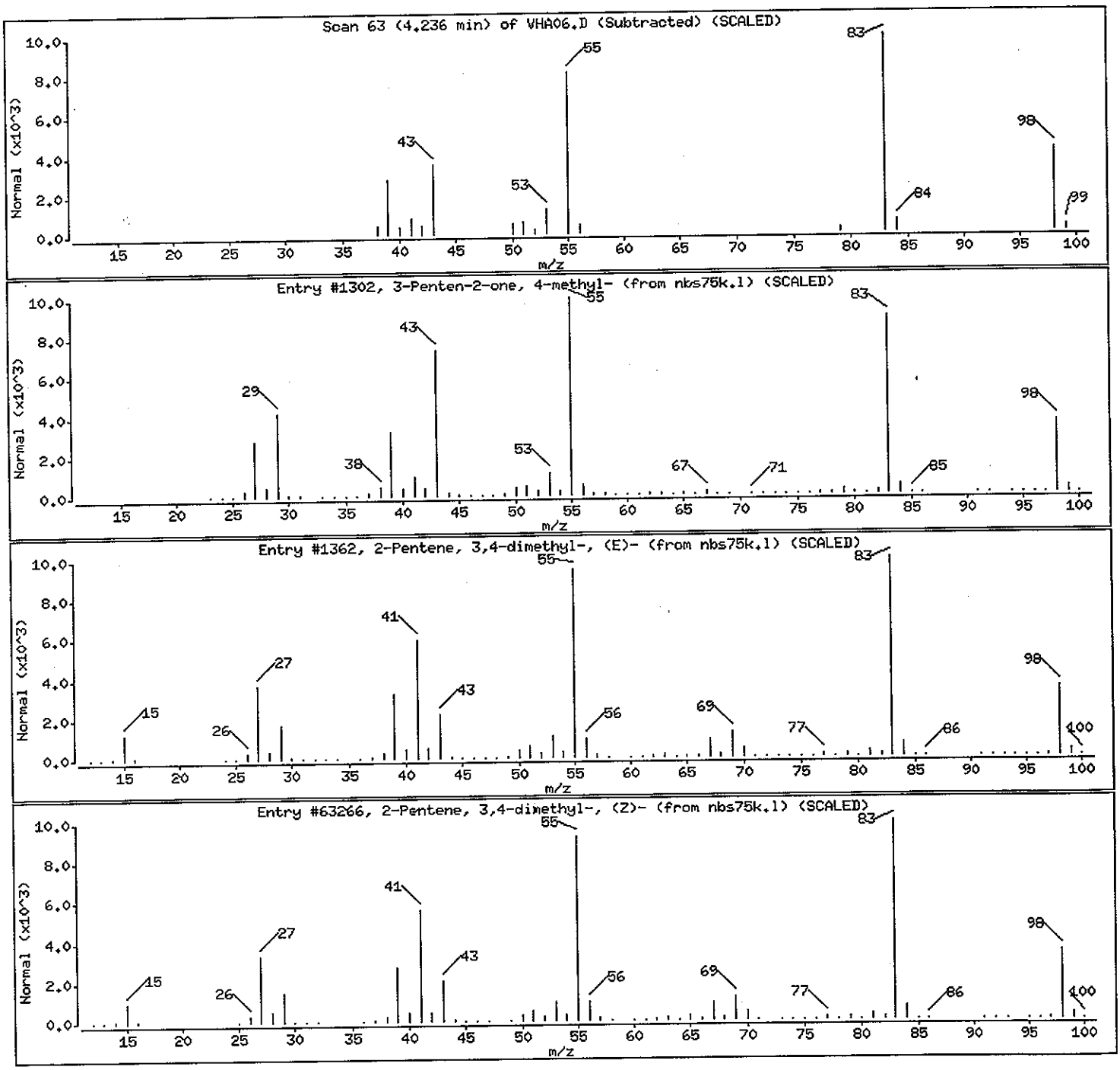
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Penten-2-one, 4-methyl-	141-79-7	nbs75k.l	1302	91	C6H10O	98
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-5	nbs75k.l	1362	91	C7H14	98
2-Pentene, 3,4-dimethyl-, (Z)-	4914-91-4	nbs75k.l	63266	90	C7H14	98



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

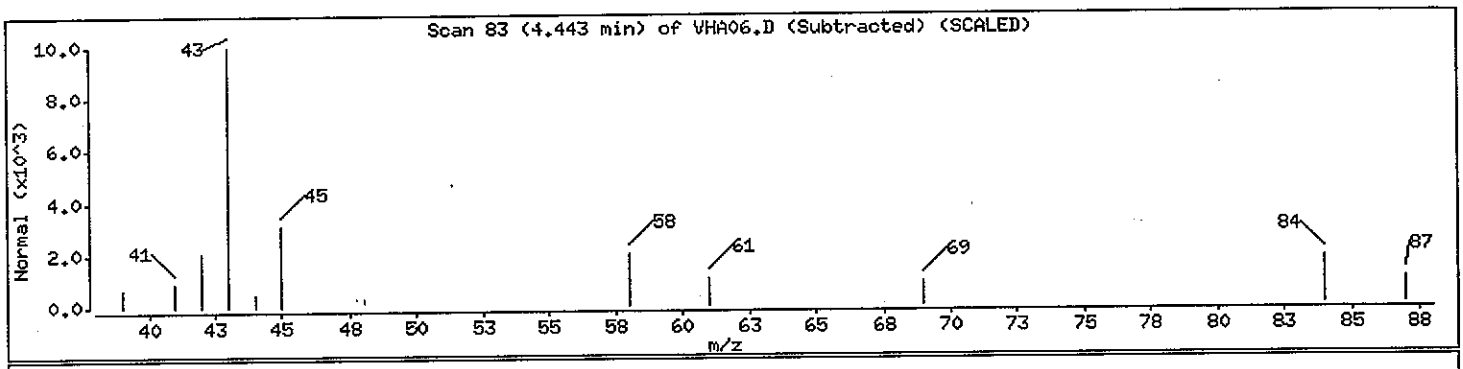
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA06.D

Date : 10-AUG-2004 23:11

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC260755

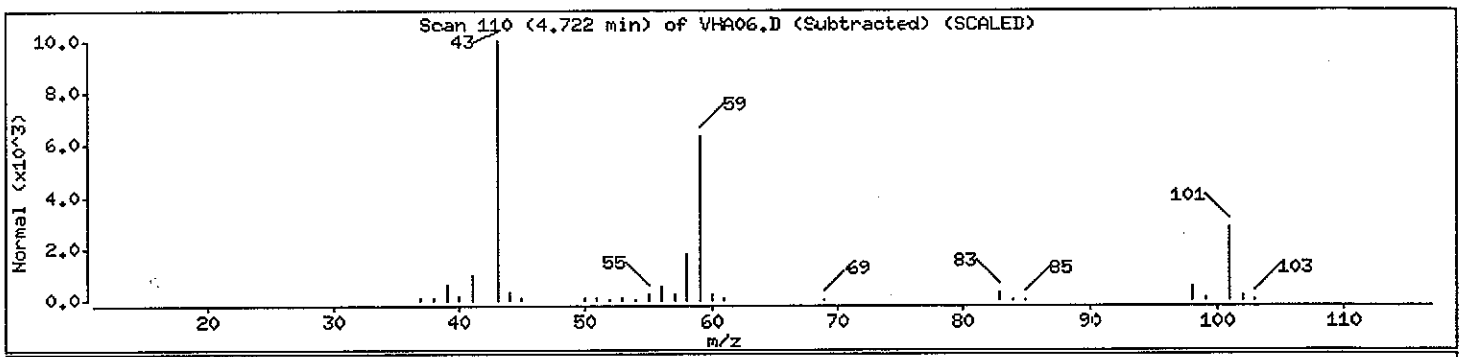
Volume Injected (uL): 1.0

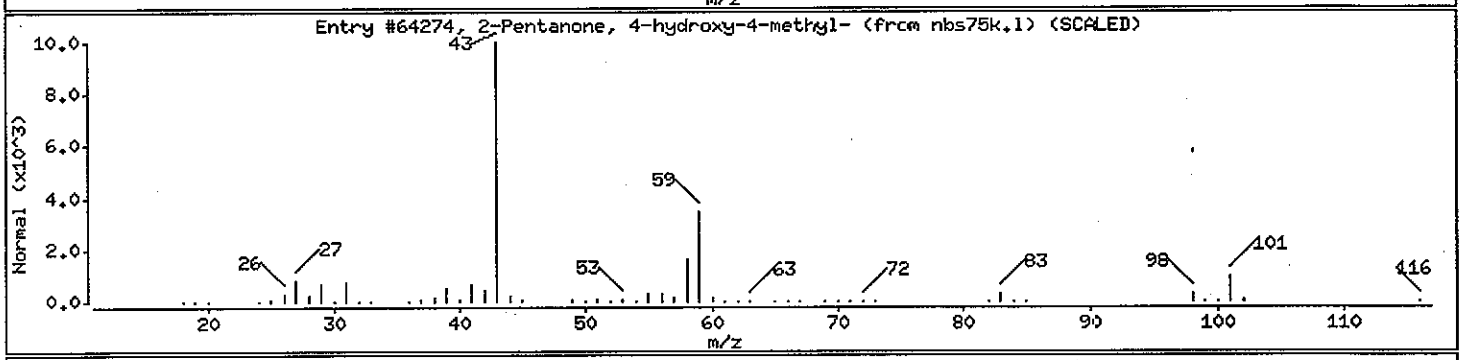
Operator: BVD

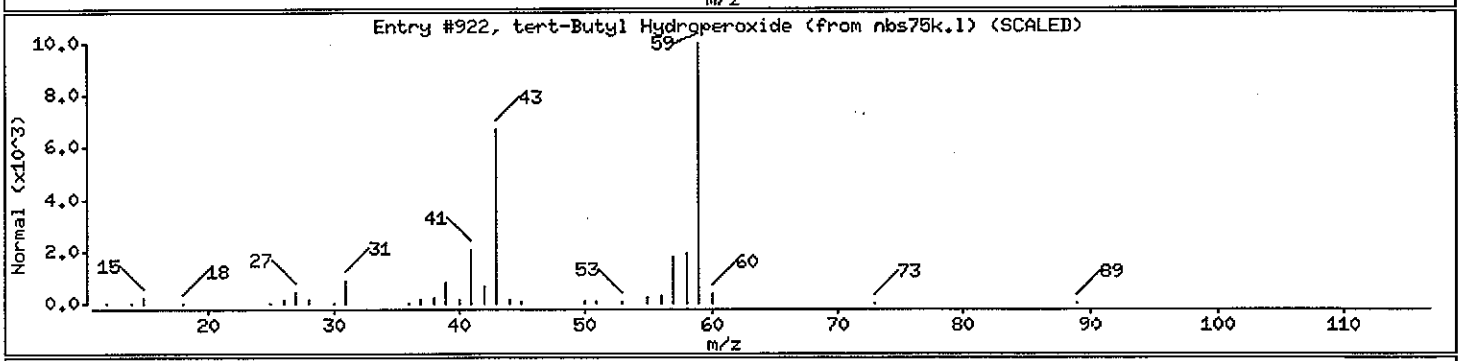
Column phase: Xti 5 x .5 u

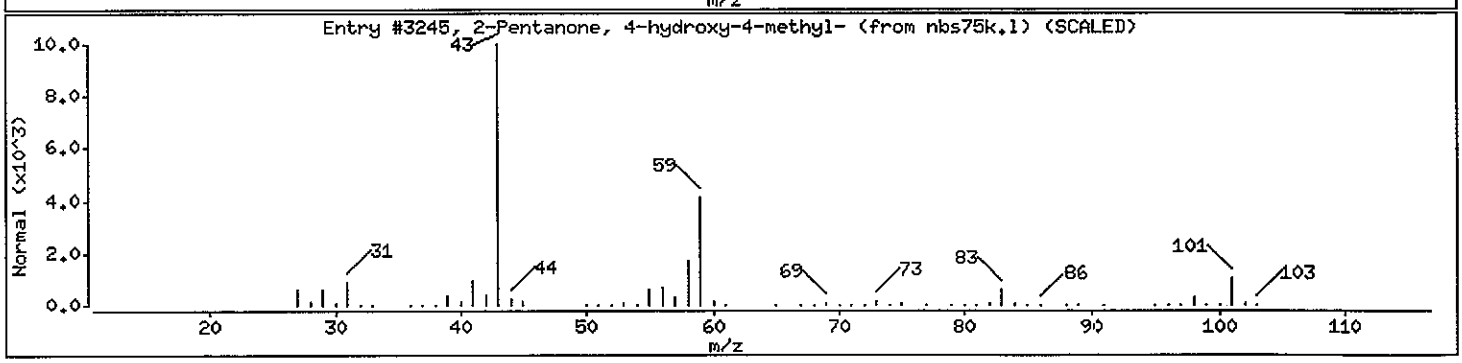
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	39	C6H12O2	116
tert-Butyl Hydroperoxide	75-91-2	nbs75k.l	922	36	C4H10O2	90
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	3245	28	C6H12O2	116









SPIKE USER REPORT FOR BATCH 93643
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524322155007
Filename : vha07
IDF : 1.0
Run type : LCS
Samplenum: QC260756
Matrix : Soil
Batchnum : 93643
Inj : 10-AUG-2004 23:48

LCS: 29.57 g --> 1.0 ml = 0.03382 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3382	2190	65	48-119	ug/Kg	
2-Chlorophenol	3382	2225	66	52-119	ug/Kg	
1,4-Dichlorobenzene	1691	1087	64	50-111	ug/Kg	
N-Nitroso-di-n-propylamine	1691	1163	69	48-117	ug/Kg	
1,2,4-Trichlorobenzene	1691	1007	60	51-107	ug/Kg	
4-Chloro-3-methylphenol	3382	2044	60	53-120	ug/Kg	
Acenaphthene	1691	1058	63	50-111	ug/Kg	
4-Nitrophenol	3382	1889	56	45-128	ug/Kg	
2,4-Dinitrotoluene	1691	945.9	56	49-114	ug/Kg	
Pentachlorophenol	3382	1789	53	39-119	ug/Kg	
Pyrene	1691	1062	63	46-120	ug/Kg	
2-Fluorophenol	3382	2190	65	41-120	ug/Kg	
Phenol-d5	3382	2091	62	39-113	ug/Kg	
2,4,6-Tribromophenol	3382	1845	55	33-120	ug/Kg	
Nitrobenzene-d5	1691	1010	60	44-120	ug/Kg	
2-Fluorobiphenyl	1691	1130	67	48-115	ug/Kg	
Terphenyl-d14	1691	1012	60	37-120	ug/Kg	

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	72438	28.15	6.36	6.36	0.00
Naphthalene-d8	216443	273619	26.42	7.87	7.87	0.00
Acenaphthene-d10	131753	170040	29.06	10.04	10.05	0.01
Phenanthrene-d10	227010	288062	26.89	11.89	11.88	-0.01
Chrysene-d12	220115	291740	32.54	15.42	15.41	-0.01
Perylene-d12	182792	246016	34.59	18.66	18.64	-0.02

08/11/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524322155007
Filename : vha07
IDF : 1.0
Run type : LCS
Samplenum: QC260756
Matrix : Soil
Batchnum : 93643
Inj : 10-AUG-2004 23:48

LCS: 29.57 g --> 1.0 ml = 0.03382 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3382	2190	65	37-120	ug/Kg	
2-Chlorophenol	3382	2225	66	43-120	ug/Kg	
1,4-Dichlorobenzene	1691	1087	64	47-120	ug/Kg	
N-Nitroso-di-n-propylamine	1691	1163	69	41-120	ug/Kg	
1,2,4-Trichlorobenzene	1691	1007	60	45-120	ug/Kg	
4-Chloro-3-methylphenol	3382	2044	60	43-120	ug/Kg	
Acenaphthene	1691	1058	63	42-120	ug/Kg	
4-Nitrophenol	3382	1889	56	28-124	ug/Kg	
2,4-Dinitrotoluene	1691	945.9	56	39-120	ug/Kg	
Pentachlorophenol	3382	1789	53	29-120	ug/Kg	
Pyrene	1691	1062	63	40-120	ug/Kg	
bis(2-Chloroethyl)ether	1691	1024	61	37-120	ug/Kg	
1,3-Dichlorobenzene	1691	1036	61	45-120	ug/Kg	
Benzyl alcohol	1691	1109	66	44-120	ug/Kg	
1,2-Dichlorobenzene	1691	1097	65	47-120	ug/Kg	
2-Methylphenol	3382	2412	71	45-122	ug/Kg	
bis(2-Chloroisopropyl) ether	1691	1045	62	29-128	ug/Kg	
4-Methylphenol	3382	2197	65	42-120	ug/Kg	
Hexachloroethane	1691	1044	62	45-120	ug/Kg	
Nitrobenzene	1691	1069	63	46-120	ug/Kg	
Isophorone	1691	918.5	54	39-120	ug/Kg	
2-Nitrophenol	3382	2050	61	45-120	ug/Kg	
2,4-Dimethylphenol	3382	2225	66	42-126	ug/Kg	
Benzoic acid	5073	1704	34	2-120	ug/Kg	
bis(2-Chloroethoxy)methane	1691	1046	62	44-120	ug/Kg	
2,4-Dichlorophenol	3382	1976	58	41-120	ug/Kg	
Naphthalene	1691	1093	65	45-120	ug/Kg	
4-Chloroaniline	1691	573.2	34	16-120	ug/Kg	
Hexachlorobutadiene	1691	1029	61	42-120	ug/Kg	
2-Methylnaphthalene	1691	1087	64	46-120	ug/Kg	
Hexachlorocyclopentadiene	3382	2009	59	22-121	ug/Kg	
2,4,6-Trichlorophenol	3382	2082	62	44-120	ug/Kg	
2,4,5-Trichlorophenol	3382	2125	63	45-120	ug/Kg	
2-Chloronaphthalene	1691	1100	65	46-120	ug/Kg	
2-Nitroaniline	1691	981.0	58	41-120	ug/Kg	
Dimethylphthalate	1691	1026	61	46-120	ug/Kg	
Acenaphthylene	1691	1077	64	43-120	ug/Kg	
2,6-Dinitrotoluene	1691	997.5	59	42-120	ug/Kg	
3-Nitroaniline	1691	488.7	29	16-120	ug/Kg	

!=warning +=high bias -=low bias b=noncompliant c=CCV v=ICV y=RL raised

88

08/10/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524322155007
Filename : vha07
IDF : 1.0
Run type : LCS
Samplenum: QC260756
Matrix : Soil
Batchnum : 93643
Inj : 10-AUG-2004 23:48

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
2,4-Dinitrophenol	3382	783.2	23	3-120	ug/Kg	
Dibenzofuran	1691	1099	65	45-120	ug/Kg	y
Diethylphthalate	1691	1011	60	44-120	ug/Kg	
Fluorene	1691	1087	64	44-120	ug/Kg	
4-Chlorophenyl-phenylether	1691	1096	65	44-120	ug/Kg	
4-Nitroaniline	1691	1140	67	37-120	ug/Kg	!c+ v- b*
4,6-Dinitro-2-methylphenol	3382	1700	50	19-120	ug/Kg	
N-Nitrosodiphenylamine	1691	1123	66	40-120	ug/Kg	
Azobenzene	1691	1188	70	42-120	ug/Kg	
4-Bromophenyl-phenylether	1691	1084	64	43-120	ug/Kg	
Hexachlorobenzene	1691	1079	64	39-120	ug/Kg	
Phenanthrene	1691	1122	66	43-120	ug/Kg	
Anthracene	1691	1142	68	41-120	ug/Kg	
Di-n-butylphthalate	1691	1223	72	43-121	ug/Kg	
Fluoranthene	1691	1106	65	43-120	ug/Kg	
Butylbenzylphthalate	1691	997.2	59	40-120	ug/Kg	
3,3'-Dichlorobenzidine	1691	512.1	30	11-120	ug/Kg	
Benzo(a)anthracene	1691	1044	62	43-120	ug/Kg	
Chrysene	1691	997.7	59	43-120	ug/Kg	
bis(2-Ethylhexyl)phthalate	1691	1091	65	36-137	ug/Kg	
Di-n-octylphthalate	1691	1000	59	34-122	ug/Kg	
Benzo(b)fluoranthene	1691	989.8	59	34-120	ug/Kg	
Benzo(k)fluoranthene	1691	1040	62	39-120	ug/Kg	
Benzo(a)pyrene	1691	1050	62	41-120	ug/Kg	
Indeno(1,2,3-cd)pyrene	1691	1081	64	27-125	ug/Kg	
Dibenz(a,h)anthracene	1691	1126	67	29-132	ug/Kg	
Benzo(g,h,i)perylene	1691	1135	67	20-134	ug/Kg	!v-
2-Fluorophenol	3382	2190	65	33-120	ug/Kg	
Phenol-d5	3382	2091	62	31-120	ug/Kg	
2,4,6-Tribromophenol	3382	1845	55	32-120	ug/Kg	
Nitrobenzene-d5	1691	1010	60	43-120	ug/Kg	
2-Fluorobiphenyl	1691	1130	67	48-120	ug/Kg	
Terphenyl-d14	1691	1012	60	37-120	ug/Kg	

08/12/04

!=warning +=high bias -=low bias b=noncompliant c=CCV v=ICV y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524322155007
Filename : vha07
IDF : 1.0
Run type : LCS
Samplenum: QC260756
Matrix : Soil
Batchnum : 93643
Inj : 10-AUG-2004 23:48

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	72438	28.15	6.36	6.36	0.00
Naphthalene-d8	216443	273619	26.42	7.87	7.87	0.00
Acenaphthene-d10	131753	170040	29.06	10.04	10.05	0.01
Phenanthrene-d10	227010	288062	26.89	11.89	11.88	-0.01
Chrysene-d12	220115	291740	32.54	15.42	15.41	-0.01
Perylene-d12	182792	246016	34.59	18.66	18.64	-0.02

08/10/04

!=warning +=high bias -=low bias b=noncompliant c=CCV v=ICV y=RL raised

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA07.D
Report Date: 11-Aug-2004 00:34

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-AUG-2004 23:48 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : LCS,QC260756
Misc Info : 93643,1,NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 N-Nitrosodimethylamine	42	3.697	3.698	(0.582)	32136	30.4541	30.4541
2 Pyridine	79	3.676	3.667	(0.578)	73723	28.4067	28.4067
$ 3 2-Fluorophenol	112	5.021	4.992	(0.790)	145113	64.7560	64.7560
$ 4 Phenol-d5	99	5.974	5.965	(0.940)	184228	61.8342	61.8342
5 Phenol	94	5.994	5.985	(0.943)	203606	64.7627	64.7627
6 Aniline	66	5.984	6.048	(0.941)	81767	66.4889	66.4888
7 bis(2-Chloroethyl)ether	63	6.077	6.079	(0.956)	55822	30.2659	30.2659
8 2-Chlorophenol	128	6.170	6.161	(0.971)	162954	65.7982	65.7981
9 1,3-Dichlorobenzene	146	6.315	6.317	(0.993)	85151	30.6198	30.6197
* 10 1,4-Dichlorobenzene-d4	152	6.357	6.358	(1.000)	72438	40.0000	
11 1,4-Dichlorobenzene	146	6.377	6.379	(1.003)	90849	32.1314	32.1314
12 Benzyl alcohol	108	6.522	6.534	(1.026)	53207	32.7793	32.7792
13 2-Methylphenol	107	6.646	6.648	(1.046)	133344	71.3090	71.3089
14 1,2-Dichlorobenzene	146	6.595	6.596	(1.037)	82813	32.4493	32.4492
15 bis(2-Chloroisopropyl) ether	45	6.677	6.689	(1.050)	98136	30.9152	30.9151
16 4-Methylphenol	107	6.812	6.824	(1.072)	193548	64.9685	64.9684
17 N-Nitroso-di-n-propylamine	70	6.874	6.876	(1.081)	48843	34.3945	34.3945
18 Hexachloroethane	117	6.947	6.948	(1.093)	31348	30.8684	30.8684
$ 19 Nitrobenzene-d5	82	7.029	7.041	(0.893)	88968	29.8755	29.8755
20 Nitrobenzene	77	7.050	7.062	(0.896)	92560	31.6202	31.6201

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA07.D
Report Date: 11-Aug-2004 00:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	7.330	7.331	(0.932)	145001	27.1590	27.1590
	22 2,4-Dimethylphenol	122	7.433	7.445	(0.945)	133940	65.7857	65.7856
	23 2-Nitrophenol	139	7.433	7.434	(0.945)	91714	60.6125	60.6124
	24 bis(2-Chloroethoxy)methane	93	7.557	7.559	(0.961)	97541	30.9157	30.9157
	25 Benzoic acid	122	7.650	7.631	(0.972)	65626	50.3953	50.3953
	26 2,4-Dichlorophenol	162	7.702	7.704	(0.979)	134798	58.4189	58.4188
	27 1,2,4-Trichlorobenzene	180	7.806	7.807	(0.992)	74288	29.7747	29.7746
*	28 Naphthalene-d8	136	7.868	7.869	(1.000)	273619	40.0000	
	29 Naphthalene	128	7.888	7.900	(1.003)	240885	32.3315	32.3314
	30 4-Chloroaniline	127	7.971	7.973	(1.013)	51531	16.9492	16.9492
	31 Hexachlorobutadiene	225	8.075	8.087	(1.026)	43457	30.4137	30.4136
	32 4-Chloro-3-methylphenol	107	8.520	8.521	(1.083)	142030	60.4342	60.4341
	33 2-Methylnaphthalene	142	8.716	8.728	(1.108)	167368	32.1295	32.1294
	34 Hexachlorocyclopentadiene	237	8.986	8.987	(0.894)	74145	59.4144	59.4143
	35 2,4,6-Trichlorophenol	196	9.099	9.101	(0.905)	106590	61.5635	61.5635
	36 2,4,5-Trichlorophenol	196	9.151	9.142	(0.910)	112859	62.8223	62.8223
$	37 2-Fluorobiphenyl	172	9.182	9.184	(0.914)	173688	33.4037	33.4036
	38 2-Chloronaphthalene	162	9.327	9.339	(0.928)	151506	32.5179	32.5178
	39 2-Nitroaniline	65	9.493	9.505	(0.944)	47680	29.0085	29.0085
	40 Dimethylphthalate	163	9.720	9.732	(0.967)	179574	30.3421	30.3421
	41 2,6-Dinitrotoluene	165	9.824	9.846	(0.977)	43135	29.4955	29.4955
	42 Acenaphthylene	152	9.855	9.867	(0.980)	240030	31.8474	31.8473
	43 3-Nitroaniline	138	10.010	10.022	(0.996)	20493	14.4509	14.4509
*	44 Acenaphthene-d10	164	10.052	10.043	(1.000)	170040	40.0000	
	45 Acenaphthene	154	10.083	10.094	(1.003)	150710	31.2920	31.2920
	46 2,4-Dinitrophenol	184	10.134	10.146	(1.008)	19568	23.1590	23.1589
	47 4-Nitrophenol	109	10.197	10.198	(1.014)	35655	55.8660	55.8659
	48 Dibenzofuran	168	10.279	10.291	(1.023)	226345	32.5115	32.5115
	49 Diethylphthalate	149	10.579	10.591	(1.053)	166519	29.9044	29.9044
	50 4-Chlorophenyl-phenylether	204	10.683	10.684	(1.063)	95347	32.4011	32.4010
	51 Fluorene	166	10.714	10.715	(1.066)	186052	32.1474	32.1474
	52 2,4-Dinitrotoluene	165	10.321	10.333	(1.027)	53046	27.9717	27.9716
	53 4-Nitroaniline	138	10.797	10.819	(1.074)	37087	33.7092	33.7092
	54 4,6-Dinitro-2-methylphenol	198	10.838	10.860	(0.912)	60206	50.2707	50.2707
	55 N-Nitrosodiphenylamine	169	10.849	10.860	(0.913)	125430	33.2146	33.2146
	56 Azobenzene	77	10.880	10.891	(0.916)	190645	35.1255	35.1255
$	57 2,4,6-Tribromophenol	330	11.045	11.047	(1.099)	60618	54.5519	54.5519
	58 4-Bromophenyl-phenylether	248	11.283	11.295	(0.949)	57379	32.0593	32.0592
	59 Hexachlorobenzene	284	11.501	11.502	(0.968)	62647	31.8989	31.8989
	60 Pentachlorophenol	266	11.718	11.719	(0.986)	70738	52.9107	52.9107
*	61 Phenanthrene-d10	188	11.884	11.885	(1.000)	288062	40.0000	
	62 Phenanthrene	178	11.915	11.916	(1.003)	262234	33.1841	33.1841
	63 Anthracene	178	11.966	11.978	(1.007)	260571	33.7778	33.7778
	64 Carbazole	167	11.718	12.165	(0.986)	23253	4.02503	4.0250
	65 Di-n-butylphthalate	149	12.567	12.579	(1.057)	318099	36.1699	36.1699
	66 Fluoranthene	202	13.395	13.407	(1.127)	307527	32.7024	32.7024
	67 Benzidine	184	13.529	13.541	(0.878)	29511	112.866	112.8661
	68 Pyrene	202	13.685	13.696	(0.888)	317236	31.4135	31.4134
$	69 Terphenyl-d14	244	13.840	13.841	(0.898)	236725	29.9197	29.9196
	70 Butylbenzylphthalate	149	14.461	14.473	(0.938)	134990	29.4860	29.4859
	71 bis(2-Ethylhexyl)phthalate	149	15.330	15.332	(0.995)	203116	32.2652	32.2652
	72 3,3'-Dichlorobenzidine	252	15.320	15.352	(0.994)	43309	15.1431	15.1430
	73 Benzo(a)anthracene	228	15.361	15.383	(0.997)	306454	30.8667	30.8666
*	74 Chrysene-d12	240	15.413	15.414	(1.000)	291740	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA07.D
Report Date: 11-Aug-2004 00:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	15.454	15.477	(1.003)	269401	29.5010	29.5009
76 Di-n-octylphthalate	149	16.510	16.522	(0.886)	326097	29.5779	29.5778
77 Benzo(b)fluoranthene	252	17.628	17.681	(0.946)	313209	29.2680	29.2680(AH)
78 Benzo(k)fluoranthene	252	17.690	17.733	(0.949)	277817	30.7525	30.7524(A)
79 Benzo(a)pyrene	252	18.477	18.519	(0.991)	262278	31.0390	31.0390
* 80 Perylene-d12	264	18.642	18.654	(1.000)	246016	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.871	21.935	(1.173)	293262	31.9742	31.9742
82 Dibenz(a,h)anthracene	278	21.903	21.956	(1.175)	260306	33.2844	33.2844
83 Benzo(g,h,i)perylene	276	22.617	22.670	(1.213)	223258	33.5593	33.5592

08/10/04

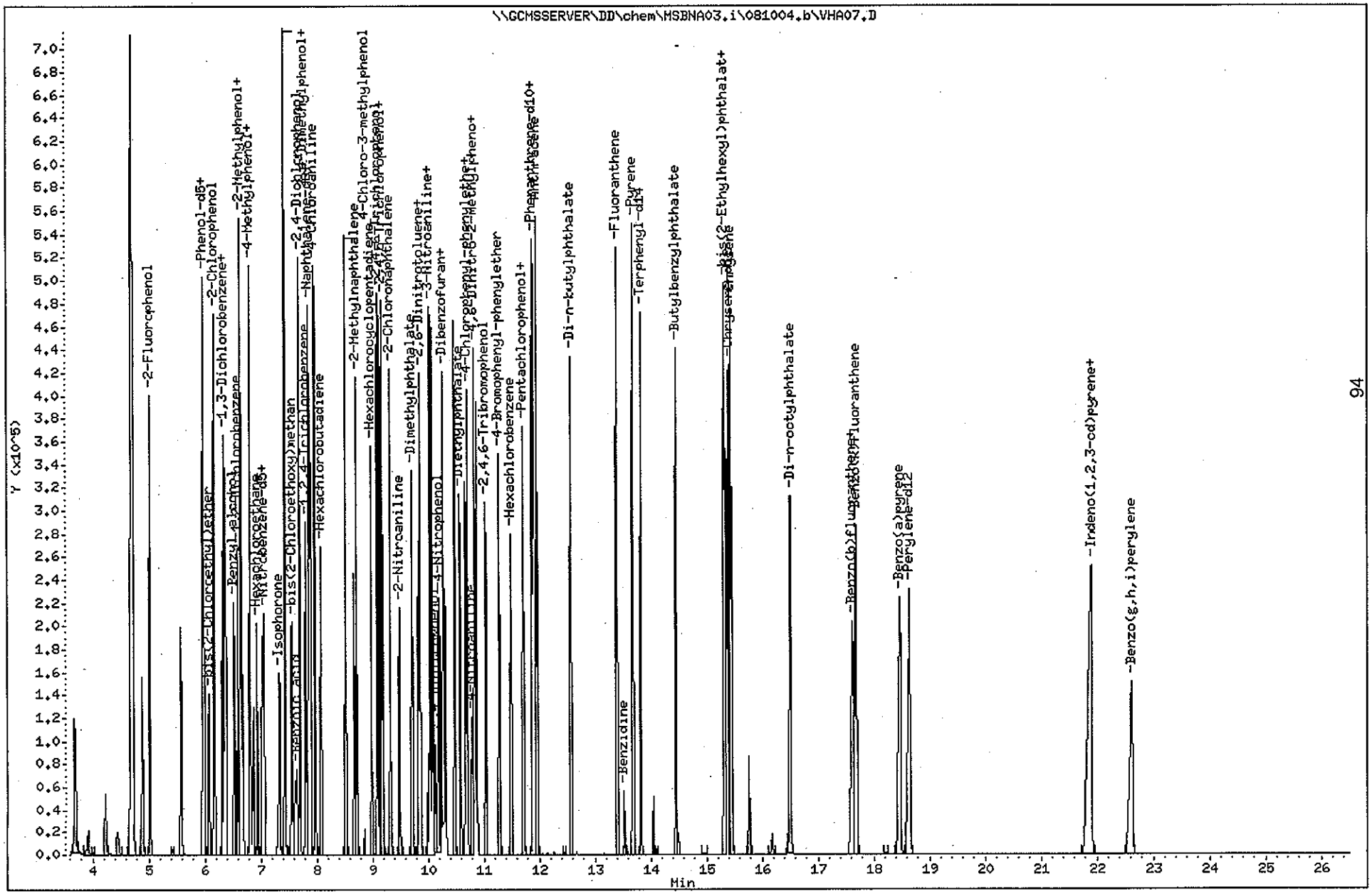
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA07.D
Date : 10-AUG-2004 23:48
Client ID: CURTIS&TOMPKINS
Sample Info: LCS,QC260756
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i

Operator: BVD
Column diameter: 0.25



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03	Instid : MSBNA03	Instid : MSBNA03
Seqnum : 524322155008	Seqnum : 524322155009	Seqnum : 524322155010
Filename : vha08	Filename : vha09	Filename : vha10
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173857-001	Samplenum: QC260757	Samplenum: QC260758
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 93643	Batchnum : 93643	Batchnum : 93643
Inj : 11-AUG-2004 00:25	Inj : 11-AUG-2004 01:02	Inj : 11-AUG-2004 01:38

MSS: 29.65 g --> 1.0 ml = 0.03373 ml/g PDF
MS: 29.63 g --> 1.0 ml = 0.03375 ml/g PDF
MSD: 30.36 g --> 1.0 ml = 0.03294 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Phenol	ND	3294	1943	58	1746	53	37-120	ug/Kg	8	34	
2-Chlorophenol	ND	3294	2107	62	1842	56	41-120	ug/Kg	11	34	
1,4-Dichlorobenzene	ND	1647	1021	61	895.4	54	49-120	ug/Kg	11	32	
N-Nitroso-di-n-propylamine	ND	1647	1061	63	932.1	57	45-120	ug/Kg	10	33	
1,2,4-Trichlorobenzene	ND	1647	934.3	55	820.5	50	46-120	ug/Kg	11	33	
4-Chloro-3-methylphenol	ND	3294	1891	56	1686	51	39-120	ug/Kg	9	32	
Acenaphthene	ND	1647	969.3	57	857.8	52	45-120	ug/Kg	10	32	
4-Nitrophenol	ND	3294	1760	52	1533	47	28-122	ug/Kg	11	37	
2,4-Dinitrotoluene	ND	1647	909.6	54	786.9	48	41-120	ug/Kg	12	35	
Pentachlorophenol	ND	3294	1530	45	1110	34	15-120	ug/Kg	29	48	
Pyrene	ND	1647	968.9	57	848.6	52	34-132	ug/Kg	11	36	
2-Fluorophenol		3294	2026	60	1793	54	33-120	ug/Kg	--		
Phenol-d5		3294	1931	57	1738	53	31-120	ug/Kg	--		
2,4,6-Tribromophenol		3294	1691	50	1460	44	32-120	ug/Kg	--		
Nitrobenzene-d5		1647	940.3	56	844.2	51	43-120	ug/Kg	--		
2-Fluorobiphenyl		1647	1084	64	956.1	58	48-120	ug/Kg	--		
Terphenyl-d14		1647	910.5	54	798.9	49	37-120	ug/Kg	--		

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	74438	31.69	6.36	6.36	0.00
Naphthalene-d8	216443	281575	30.09	7.87	7.87	0.00
Acenaphthene-d10	131753	171640	30.27	10.04	10.04	0.00
Phenanthrene-d10	227010	293719	29.39	11.89	11.89	0.00
Chrysene-d12	220115	297904	35.34	15.42	15.41	-0.01
Perylene-d12	182792	249806	36.66	18.66	18.65	-0.01

ISTD (CCV=vha05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	56524	74966	32.63	6.36	6.36	0.00
Naphthalene-d8	216443	281228	29.93	7.87	7.87	0.00
Acenaphthene-d10	131753	171404	30.09	10.04	10.04	0.00
Phenanthrene-d10	227010	291821	28.55	11.89	11.88	-0.01
Chrysene-d12	220115	300497	36.52	15.42	15.40	-0.02
Perylene-d12	182792	248037	35.69	18.66	18.64	-0.02

08/11/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA09.D
Report Date: 11-Aug-2004 11:41

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 11-AUG-2004 01:02 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MS,QC260757
Misc Info : 93643,1,NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 N-Nitrosodimethylamine	42	3.688	3.698	(0.580)	31389	28.9470	28.9470
2 Pyridine	79	3.668	3.667	(0.577)	70967	26.6101	26.6101
$ 3 2-Fluorophenol	112	5.023	4.992	(0.790)	138245	60.0337	60.0336
$ 4 Phenol-d5	99	5.976	5.965	(0.940)	175187	57.2199	57.2198
5 Phenol	94	5.986	5.985	(0.941)	186006	57.5749	57.5748
6 Aniline	66	5.986	6.048	(0.941)	75445	59.6999	59.6998
7 bis(2-Chloroethyl)ether	63	6.069	6.079	(0.954)	54222	28.6085	28.6085
8 2-Chlorophenol	128	6.172	6.161	(0.971)	158891	62.4338	62.4338
9 1,3-Dichlorobenzene	146	6.317	6.317	(0.993)	82650	28.9219	28.9219
* 10 1,4-Dichlorobenzene-d4	152	6.359	6.358	(1.000)	74438	40.0000	
11 1,4-Dichlorobenzene	146	6.379	6.379	(1.003)	87932	30.2641	30.2641
12 Benzyl alcohol	108	6.524	6.534	(1.026)	49622	29.7493	29.7492
13 2-Methylphenol	107	6.648	6.648	(1.046)	127614	66.4111	66.4111
14 1,2-Dichlorobenzene	146	6.597	6.596	(1.037)	79598	30.3515	30.3515
15 bis(2-Chloroisopropyl) ether	45	6.679	6.689	(1.050)	94770	29.0527	29.0526
16 4-Methylphenol	107	6.814	6.824	(1.072)	188568	61.5962	61.5961
17 N-Nitroso-di-n-propylamine	70	6.866	6.876	(1.080)	45860	31.4263	31.4262
18 Hexachloroethane	117	6.938	6.948	(1.091)	30017	28.7636	28.7636
$ 19 Nitrobenzene-d5	82	7.031	7.041	(0.893)	85378	27.8599	27.8599
20 Nitrobenzene	77	7.052	7.062	(0.896)	87942	29.1937	29.1936

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA09.D
Report Date: 11-Aug-2004 11:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	7.332	7.331	(0.932)	137597	25.0441	25.0440
	22 2,4-Dimethylphenol	122	7.435	7.445	(0.945)	130208	62.1457	62.1456
	23 2-Nitrophenol	139	7.435	7.434	(0.945)	88779	57.0150	57.0149
	24 bis(2-Chloroethoxy)methane	93	7.549	7.559	(0.959)	91996	28.3343	28.3343
	25 Benzoic acid	122	7.642	7.631	(0.971)	58959	44.8548	44.8547
	26 2,4-Dichlorophenol	162	7.704	7.704	(0.979)	132640	55.8594	55.8594
	27 1,2,4-Trichlorobenzene	180	7.808	7.807	(0.992)	71078	27.6832	27.6831
*	28 Naphthalene-d8	136	7.870	7.869	(1.000)	281575	40.0000	
	29 Naphthalene	128	7.890	7.900	(1.003)	227589	29.6838	29.6837
	30 4-Chloroaniline	127	7.973	7.973	(1.013)	44826	14.3273	14.3272
	31 Hexachlorobutadiene	225	8.077	8.087	(1.026)	41218	28.0316	28.0316
	32 4-Chloro-3-methylphenol	107	8.522	8.521	(1.083)	135544	56.0447	56.0447
	33 2-Methylnaphthalene	142	8.718	8.728	(1.108)	154506	28.8223	28.8223
	34 Hexachlorocyclopentadiene	237	8.988	8.987	(0.895)	69027	54.7975	54.7975
	35 2,4,6-Trichlorophenol	196	9.091	9.101	(0.905)	104165	59.6021	59.6020
	36 2,4,5-Trichlorophenol	196	9.143	9.142	(0.910)	104774	57.7782	57.7781
$	37 2-Fluorobiphenyl	172	9.184	9.184	(0.914)	168620	32.1267	32.1267
	38 2-Chloronaphthalene	162	9.329	9.339	(0.929)	144508	30.7268	30.7267
	39 2-Nitroaniline	65	9.495	9.505	(0.945)	45952	27.6966	27.6965
	40 Dimethylphthalate	163	9.722	9.732	(0.968)	174156	29.1524	29.1523
	41 2,6-Dinitrotoluene	165	9.826	9.846	(0.978)	40317	27.3116	27.3115
	42 Acenaphthylene	152	9.857	9.867	(0.981)	226001	29.7065	29.7064
	43 3-Nitroaniline	138	10.002	10.022	(0.996)	18258	12.7549	12.7548
*	44 Acenaphthene-d10	164	10.043	10.043	(1.000)	171640	40.0000	
	45 Acenaphthene	154	10.085	10.094	(1.004)	139622	28.7196	28.7195
	46 2,4-Dinitrophenol	184	10.136	10.146	(1.009)	18460	21.9550	21.9549
	47 4-Nitrophenol	109	10.188	10.198	(1.014)	33603	52.1600	52.1599
	48 Dibenzofuran	168	10.281	10.291	(1.024)	217287	30.9195	30.9195
	49 Diethylphthalate	149	10.581	10.591	(1.054)	155783	27.7156	27.7156
	50 4-Chlorophenyl-phenylether	204	10.675	10.684	(1.063)	88802	29.8956	29.8956
	51 Fluorene	166	10.706	10.715	(1.066)	172398	29.5105	29.5105
	52 2,4-Dinitrotoluene	165	10.323	10.333	(1.028)	51592	26.9514	26.9513
	53 4-Nitroaniline	138	10.788	10.819	(1.074)	34045	30.6558	30.6558
	54 4,6-Dinitro-2-methylphenol	198	10.840	10.860	(0.912)	55983	46.2103	46.2102
	55 N-Nitrosodiphenylamine	169	10.840	10.860	(0.912)	115907	30.1018	30.1017
	56 Azobenzene	77	10.882	10.891	(0.916)	179916	32.5103	32.5103
$	57 2,4,6-Tribromophenol	330	11.037	11.047	(1.099)	55489	50.1166	50.1166
	58 4-Bromophenyl-phenylether	248	11.285	11.295	(0.949)	55632	30.4845	30.4845
	59 Hexachlorobenzene	284	11.492	11.502	(0.967)	58218	29.0728	29.0727
	60 Pentachlorophenol	266	11.720	11.719	(0.986)	61805	45.3386	45.3386
*	61 Phenanthrene-d10	188	11.886	11.885	(1.000)	293719	40.0000	
	62 Phenanthrene	178	11.906	11.916	(1.002)	250753	31.1201	31.1201
	63 Anthracene	178	11.968	11.978	(1.007)	250412	31.8357	31.8357
	64 Carbazole	167	11.710	12.165	(0.985)	18892	3.20717	3.2071
	65 Di-n-butylphthalate	149	12.569	12.579	(1.057)	293432	32.7225	32.7224
	66 Fluoranthene	202	13.397	13.407	(1.127)	287114	29.9437	29.9436
	67 Benzidine	184	13.531	13.541	(0.878)	17708	66.3237	66.3237
	68 Pyrene	202	13.687	13.696	(0.888)	296050	28.7090	28.7090
$	69 Terphenyl-d14	244	13.831	13.841	(0.898)	217952	26.9770	26.9769
	70 Butylbenzylphthalate	149	14.463	14.473	(0.939)	130018	27.8123	27.8123
	71 bis(2-Ethylhexyl)phthalate	149	15.322	15.332	(0.995)	194418	30.2445	30.2445
	72 3,3'-Dichlorobenzidine	252	15.311	15.352	(0.994)	36811	13.3751	13.3750
	73 Benzo(a)anthracene	228	15.363	15.383	(0.997)	285272	28.1387	28.1386
*	74 Chrysene-d12	240	15.405	15.414	(1.000)	297904	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA09.D
Report Date: 11-Aug-2004 11:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	15.456	15.477	(1.003)	259583	27.8377	27.8376
76 Di-n-octylphthalate	149	16.502	16.522	(0.885)	307911	27.8679	27.8679
77 Benzo(b)fluoranthene	252	17.620	17.681	(0.945)	278551	26.1794	26.1793(AH)
78 Benzo(k)fluoranthene	252	17.692	17.733	(0.949)	274524	29.9269	29.9269(A)
79 Benzo(a)pyrene	252	18.479	18.519	(0.991)	246270	28.8757	28.8756
* 80 Perylene-d12	264	18.644	18.654	(1.000)	249806	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.853	21.935	(1.172)	279004	29.9582	29.9581
82 Dibenz(a,h)anthracene	278	21.894	21.956	(1.174)	246093	30.9897	30.9896
83 Benzo(g,h,i)perylene	276	22.619	22.670	(1.213)	212857	31.5104	31.5104

28/11/04

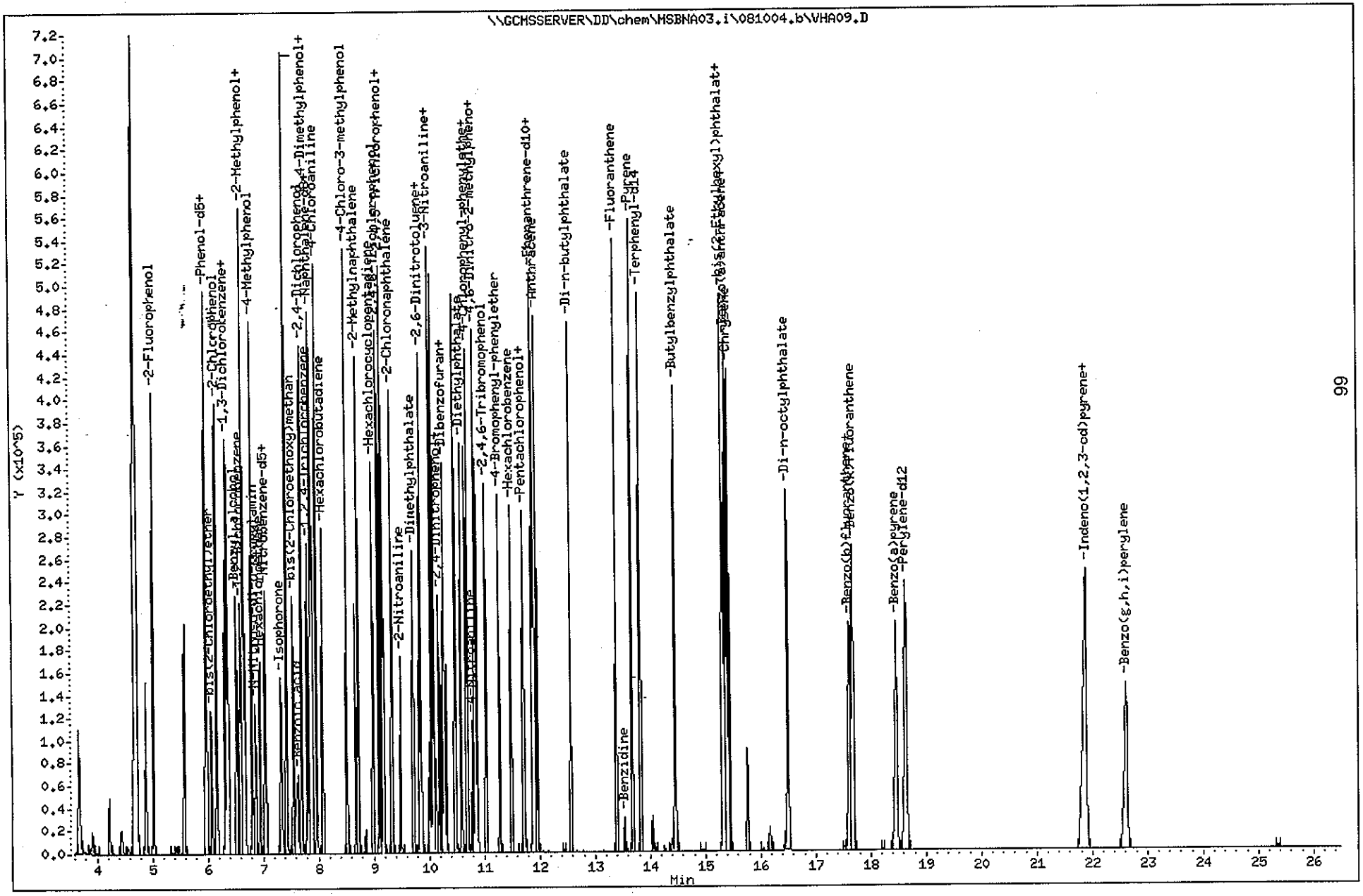
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA09.D
Date : 11-AUG-2004 01:02
Client ID: CURTIS&TOMPKINS
Sample Info: MS,QC260757
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i

Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA10.D
Report Date: 11-Aug-2004 11:42

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 11-AUG-2004 01:38 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MSD,QC260758
Misc Info : 93643,1,NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	42	3.696	3.698	(0.582)	28711	26.2909	26.2908
	2 Pyridine	79	3.675	3.667	(0.578)	64723	24.0979	24.0978
$	3 2-Fluorophenol	112	5.020	4.992	(0.790)	126225	54.4279	54.4278
$	4 Phenol-d5	99	5.973	5.965	(0.940)	162715	52.7719	52.7719
	5 Phenol	94	5.983	5.985	(0.941)	172472	53.0097	53.0096
	6 Aniline	66	5.983	6.048	(0.941)	70368	55.2902	55.2902
	7 bis(2-Chloroethyl)ether	63	6.076	6.079	(0.956)	49072	25.7089	25.7089
	8 2-Chlorophenol	128	6.169	6.161	(0.971)	143359	55.9340	55.9339
	9 1,3-Dichlorobenzene	146	6.314	6.317	(0.993)	72830	25.3061	25.3060
*	10 1,4-Dichlorobenzene-d4	152	6.356	6.358	(1.000)	74966	40.0000	
	11 1,4-Dichlorobenzene	146	6.376	6.379	(1.003)	79548	27.1857	27.1857
	12 Benzyl alcohol	108	6.521	6.534	(1.026)	45198	26.9062	26.9061
	13 2-Methylphenol	107	6.645	6.648	(1.046)	118335	61.1485	61.1485
	14 1,2-Dichlorobenzene	146	6.594	6.596	(1.037)	72296	27.3730	27.3730
	15 bis(2-Chloroisopropyl) ether	45	6.677	6.689	(1.050)	86789	26.4186	26.4186
	16 4-Methylphenol	107	6.811	6.824	(1.072)	173666	56.3288	56.3288
	17 N-Nitroso-di-n-propylamine	70	6.863	6.876	(1.080)	41588	28.2981	28.2981
	18 Hexachloroethane	117	6.946	6.948	(1.093)	27166	25.8483	25.8483
$	19 Nitrobenzene-d5	82	7.028	7.041	(0.893)	78446	25.6295	25.6294
	20 Nitrobenzene	77	7.049	7.062	(0.896)	79848	26.5395	26.5394

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA10.D
Report Date: 11-Aug-2004 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
	21 Isophorone	82	7.329	7.331	(0.932)	124385	22.6673	22.6672
	22 2,4-Dimethylphenol	122	7.432	7.445	(0.945)	121858	58.2322	58.2321
	23 2-Nitrophenol	139	7.432	7.434	(0.945)	80551	51.7947	51.7946
	24 bis(2-Chloroethoxy)methane	93	7.546	7.559	(0.959)	83957	25.8903	25.8902
	25 Benzoic acid	122	7.618	7.631	(0.968)	42675	34.2209	34.2208
	26 2,4-Dichlorophenol	162	7.701	7.704	(0.979)	121971	51.4297	51.4297
	27 1,2,4-Trichlorobenzene	180	7.805	7.807	(0.992)	63877	24.9093	24.9092
*	28 Naphthalene-d8	136	7.867	7.869	(1.000)	281228	40.0000	
	29 Naphthalene	128	7.887	7.900	(1.003)	207225	27.0611	27.0611
	30 4-Chloroaniline	127	7.970	7.973	(1.013)	45908	14.6912	14.6912
	31 Hexachlorobutadiene	225	8.074	8.087	(1.026)	37145	25.2928	25.2928
	32 4-Chloro-3-methylphenol	107	8.519	8.521	(1.083)	123651	51.1903	51.1903
	33 2-Methylnaphthalene	142	8.715	8.728	(1.108)	142277	26.5738	26.5737
	34 Hexachlorocyclopentadiene	237	8.985	8.987	(0.895)	58043	46.1413	46.1412
	35 2,4,6-Trichlorophenol	196	9.098	9.101	(0.906)	92994	53.2834	53.2834
	36 2,4,5-Trichlorophenol	196	9.140	9.142	(0.910)	94764	52.3301	52.3300
$	37 2-Fluorobiphenyl	172	9.181	9.184	(0.914)	152140	29.0267	29.0267
	38 2-Chloronaphthalene	162	9.326	9.339	(0.929)	129248	27.5199	27.5198
	39 2-Nitroaniline	65	9.492	9.505	(0.945)	42360	25.5667	25.5667
	40 Dimethylphthalate	163	9.719	9.732	(0.968)	155440	26.0553	26.0552
	41 2,6-Dinitrotoluene	165	9.823	9.846	(0.978)	36370	24.6717	24.6717
	42 Acenaphthylene	152	9.854	9.867	(0.981)	203752	26.8189	26.8188
	43 3-Nitroaniline	138	9.999	10.022	(0.996)	17235	12.0568	12.0567
*	44 Acenaphthene-d10	164	10.040	10.043	(1.000)	171404	40.0000	
	45 Acenaphthene	154	10.082	10.094	(1.004)	126430	26.0419	26.0418
	46 2,4-Dinitrophenol	184	10.123	10.146	(1.008)	8700	12.8720	12.8719
	47 4-Nitrophenol	109	10.185	10.198	(1.014)	29938	46.5350	46.5350
	48 Dibenzofuran	168	10.278	10.291	(1.024)	193360	27.5527	27.5526
	49 Diethylphthalate	149	10.579	10.591	(1.054)	139533	24.8587	24.8587
	50 4-Chlorophenyl-phenylether	204	10.672	10.684	(1.063)	80572	27.1623	27.1623
	51 Fluorene	166	10.703	10.715	(1.066)	157520	27.0009	27.0008
	52 2,4-Dinitrotoluene	165	10.320	10.333	(1.028)	45667	23.8890	23.8890
	53 4-Nitroaniline	138	10.786	10.819	(1.074)	30271	27.2951	27.2950
	54 4,6-Dinitro-2-methylphenol	198	10.827	10.860	(0.911)	34002	29.8645	29.8644
	55 N-Nitrosodiphenylamine	169	10.837	10.860	(0.912)	102314	26.7444	26.7443
	56 Azobenzene	77	10.879	10.891	(0.916)	161518	29.3757	29.3756
$	57 2,4,6-Tribromophenol	330	11.034	11.047	(1.099)	47965	44.3128	44.3127
	58 4-Bromophenyl-phenylether	248	11.282	11.295	(0.949)	49238	27.1563	27.1562
	59 Hexachlorobenzene	284	11.489	11.502	(0.967)	52139	26.2064	26.2064
	60 Pentachlorophenol	266	11.717	11.719	(0.986)	45636	33.6952	33.6951
*	61 Phenanthrene-d10	188	11.883	11.885	(1.000)	291821	40.0000	
	62 Phenanthrene	178	11.914	11.916	(1.003)	222214	27.7576	27.7576
	63 Anthracene	178	11.965	11.978	(1.007)	223260	28.5684	28.5684
	64 Carbazole	167	11.707	12.165	(0.985)	15303	2.61479	2.6147
	65 Di-n-butylphthalate	149	12.566	12.579	(1.057)	270688	30.3825	30.3824
	66 Fluoranthene	202	13.394	13.407	(1.127)	261291	27.4278	27.4277
	67 Benzidine	184	13.528	13.541	(0.878)	15660	58.1470	58.1470
	68 Pyrene	202	13.684	13.696	(0.888)	267977	25.7625	25.7624
$	69 Terphenyl-d14	244	13.828	13.841	(0.898)	197670	24.2555	24.2554
	70 Butylbenzylphthalate	149	14.460	14.473	(0.939)	117431	24.9031	24.9030
	71 bis(2-Ethylhexyl)phthalate	149	15.319	15.332	(0.995)	175958	27.1366	27.1366
	72 3,3'-Dichlorobenzidine	252	15.309	15.352	(0.994)	34802	12.8243	12.8243
	73 Benzo(a)anthracene	228	15.360	15.383	(0.997)	258065	25.2354	25.2353
*	74 Chrysene-d12	240	15.402	15.414	(1.000)	300497	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA10.D
Report Date: 11-Aug-2004 11:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	15.453	15.477	(1.003)	230876	24.5455	24.5454
76 Di-n-octylphthalate	149	16.499	16.522	(0.885)	277001	25.7363	25.7362
77 Benzo(b)fluoranthene	252	17.617	17.681	(0.945)	250952	24.1427	24.1426(AH)
78 Benzo(k)fluoranthene	252	17.679	17.733	(0.948)	242556	26.6305	26.6305(A)
79 Benzo(a)pyrene	252	18.465	18.519	(0.991)	219339	26.1241	26.1241
* 80 Perylene-d12	264	18.641	18.654	(1.000)	248037	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.839	21.935	(1.172)	250683	27.1092	27.1091
82 Dibenz(a,h)anthracene	278	21.891	21.956	(1.174)	222075	28.1646	28.1646
83 Benzo(g,h,i)perylene	276	22.616	22.670	(1.213)	192030	28.6300	28.6300

8/11/04

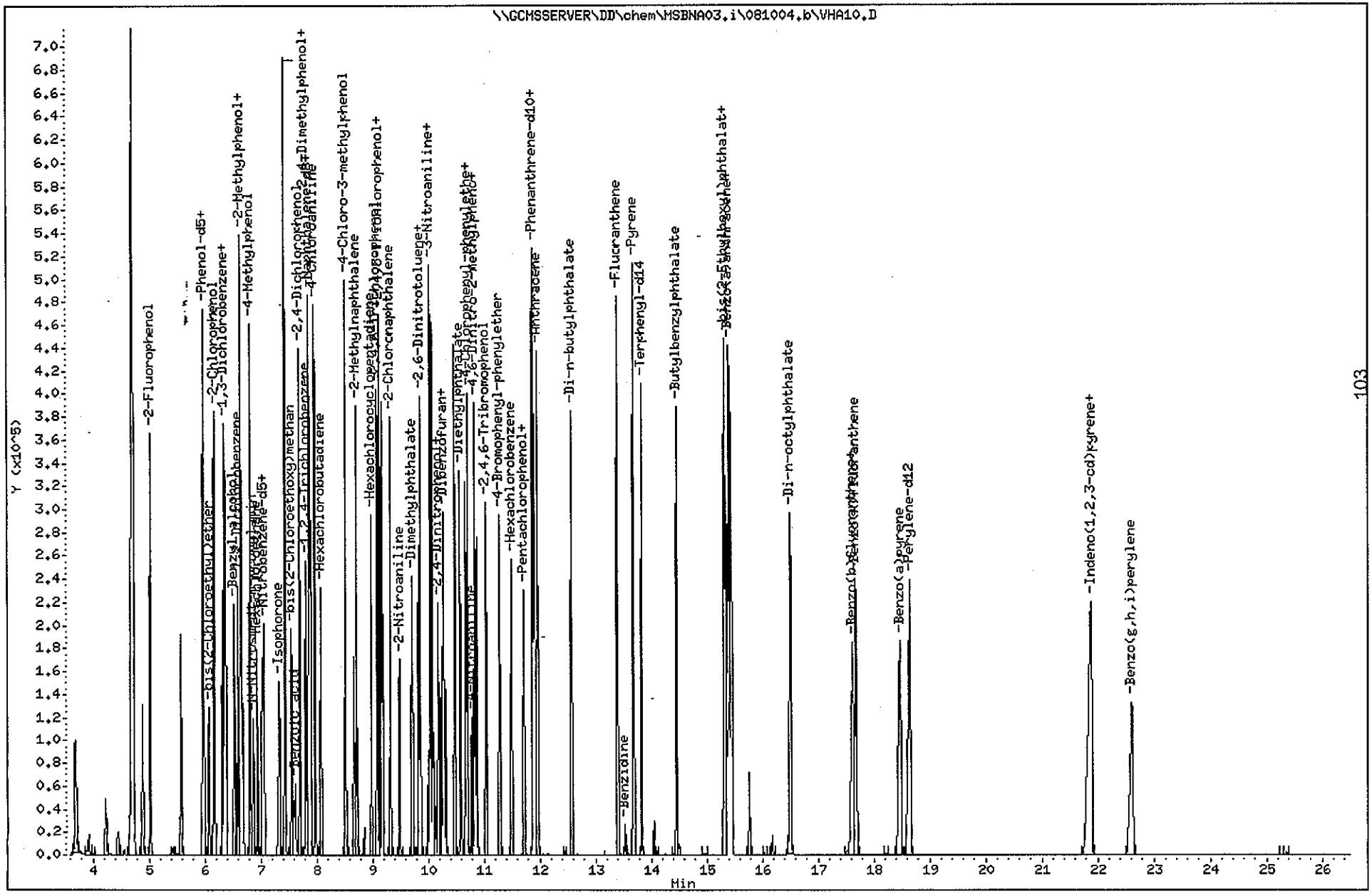
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA10.D
Date : 11-AUG-2004 01:38
Client ID: CURTIS&TOMPKINS
Sample Info: MSD,QC260758
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i

Operator: BVD
Column diameter: 0.25



Curtis & Tompkins, Ltd.

Initial Calibration Data

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG02.D

Date : 16-JUL-2004 08:55

Client ID: dftpp tune std

Instrument: MSBNA03.i

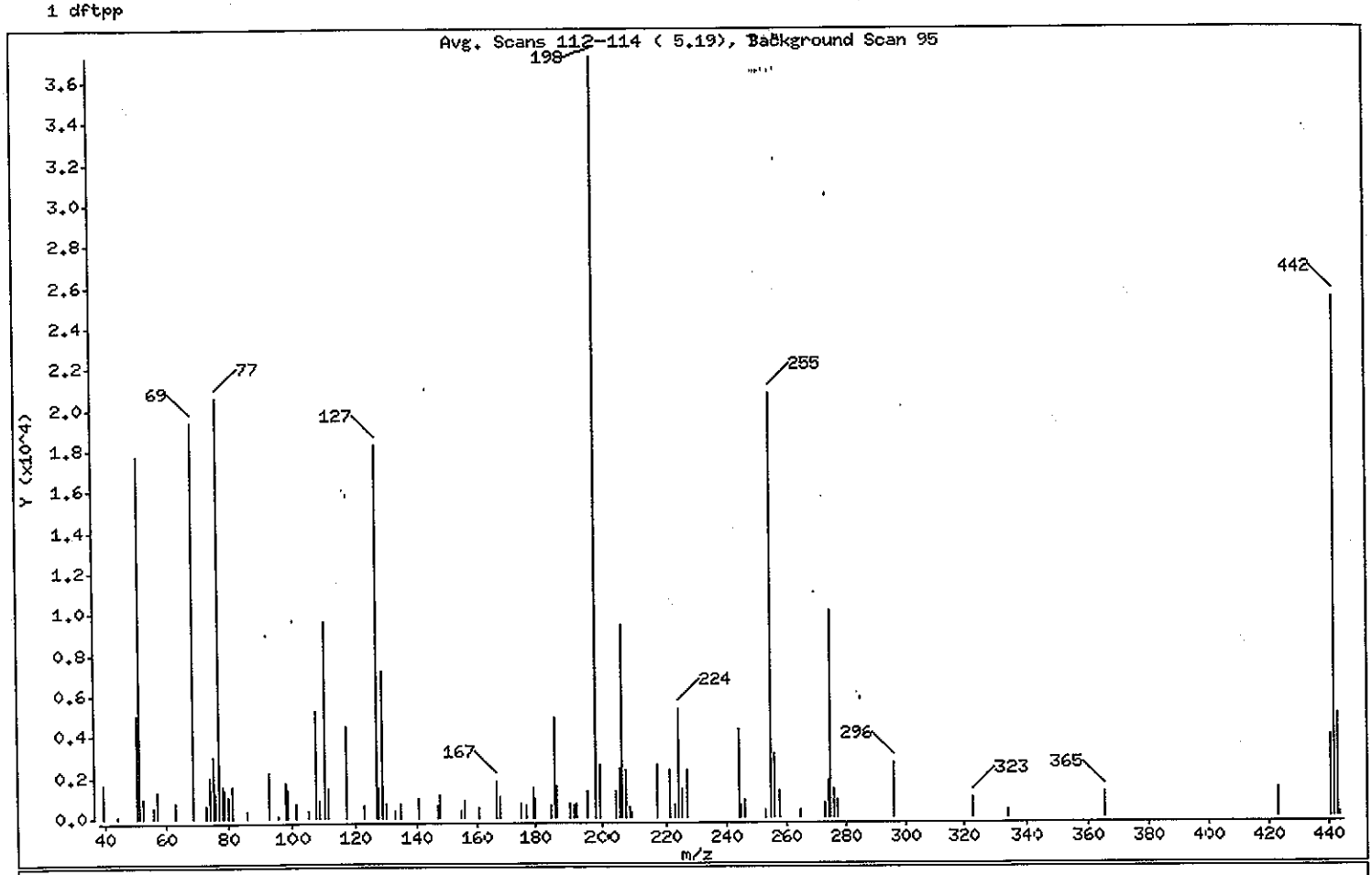
Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.63
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.07
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.18
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	27.29
365	Greater than 1.00% of mass 198	3.25
441	Present, but less than mass 443	10.66
442	40.00 - 99.99% of mass 198	68.22
443	17.00 - 23.00% of mass 442	13.37 (19.60)

8270 ICAL

7/16/04

mcm 7/19

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG02.D

Date : 16-JUL-2004 08:55

Client ID: dftpp tune std

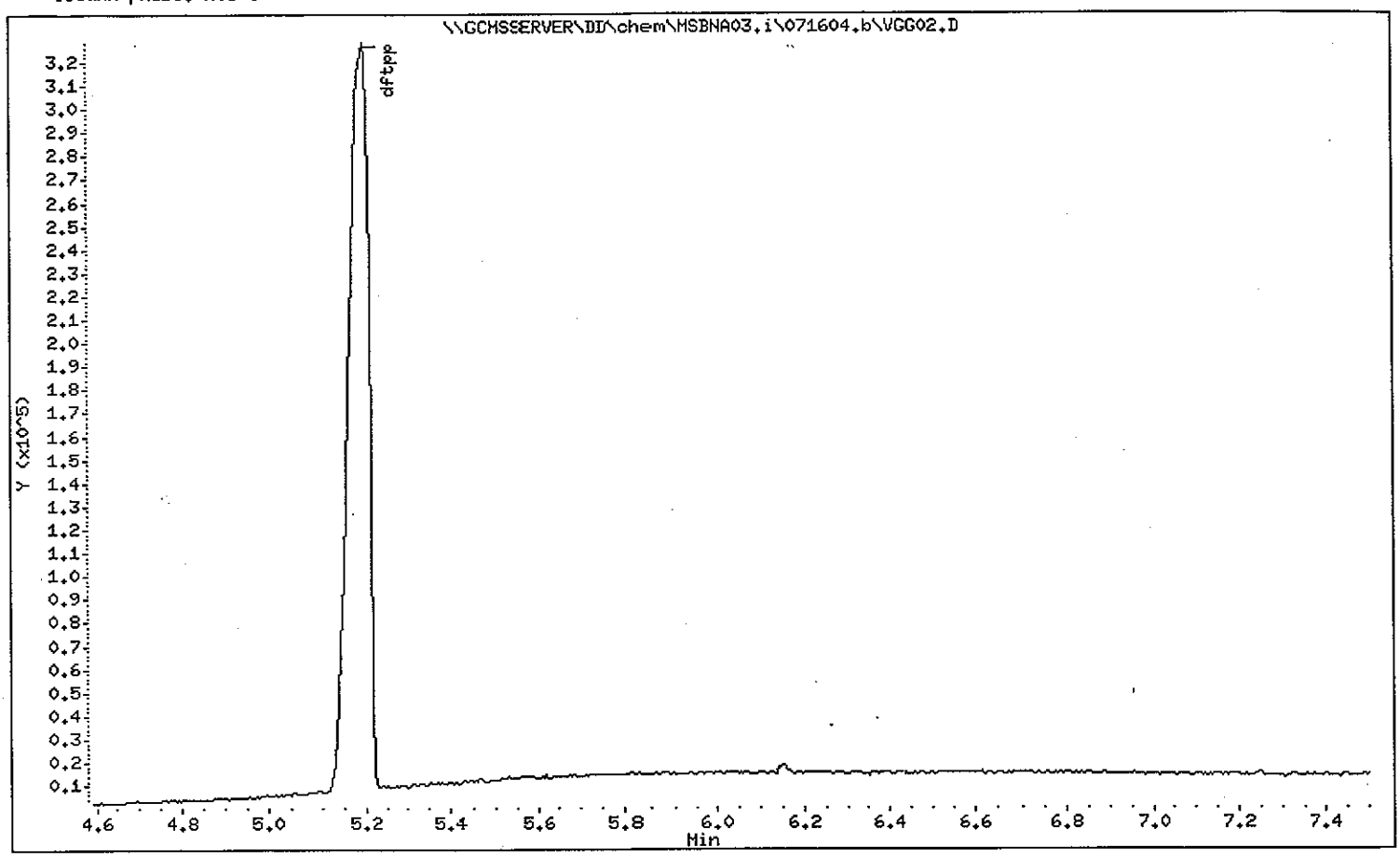
Instrument: MSBNA03.i

Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG02.D

Date : 16-JUL-2004 08:55

Client ID: dftpp tune std

Instrument: MSBNA03.i

Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: VGG02.D

Spectrum: Avg. Scans 112-114 (5.19), Background Scan 95

Location of Maximum: 198.00

Number of points: 92

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44.00	99	107.00	5256	185.00	630	253.00	339
50.00	5024	108.00	895	186.00	4864	255.00	20776
51.00	17712	110.00	9601	187.00	1501	256.00	3061
52.00	925	111.00	1479	191.00	669	258.00	1277
56.00	545	117.00	4473	192.00	602	265.00	379
57.00	1285	123.00	596	193.00	679	273.00	681
63.00	779	127.00	18288	196.00	1284	274.00	1770
69.00	19360	128.00	1420	198.00	37184	275.00	10148
73.00	638	129.00	7224	199.00	2542	276.00	1378
74.00	1949	130.00	643	204.00	1317	277.00	883
75.00	3002	133.00	375	205.00	2374	296.00	2665
76.00	1175	135.00	691	206.00	9467	323.00	910
77.00	20592	141.00	958	207.00	2331	334.00	359
78.00	1547	147.00	632	208.00	491	365.00	1209
79.00	1399	148.00	1138	209.00	248	423.00	1338
80.00	1062	155.00	373	217.00	2605	441.00	3965
81.00	1508	156.00	824	221.00	2285	442.00	25368
86.00	349	161.00	517	223.00	636	443.00	4973
93.00	2192	167.00	1830	224.00	5295	444.00	167
96.00	123	168.00	1017	225.00	1364		
98.00	1738	175.00	689	227.00	2327		
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101.00	716	179.00	1417	245.00	600		

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA04.D

Date : 10-AUG-2004 22:15

Client ID: dftpp tune std

Instrument: MSBNA03.i

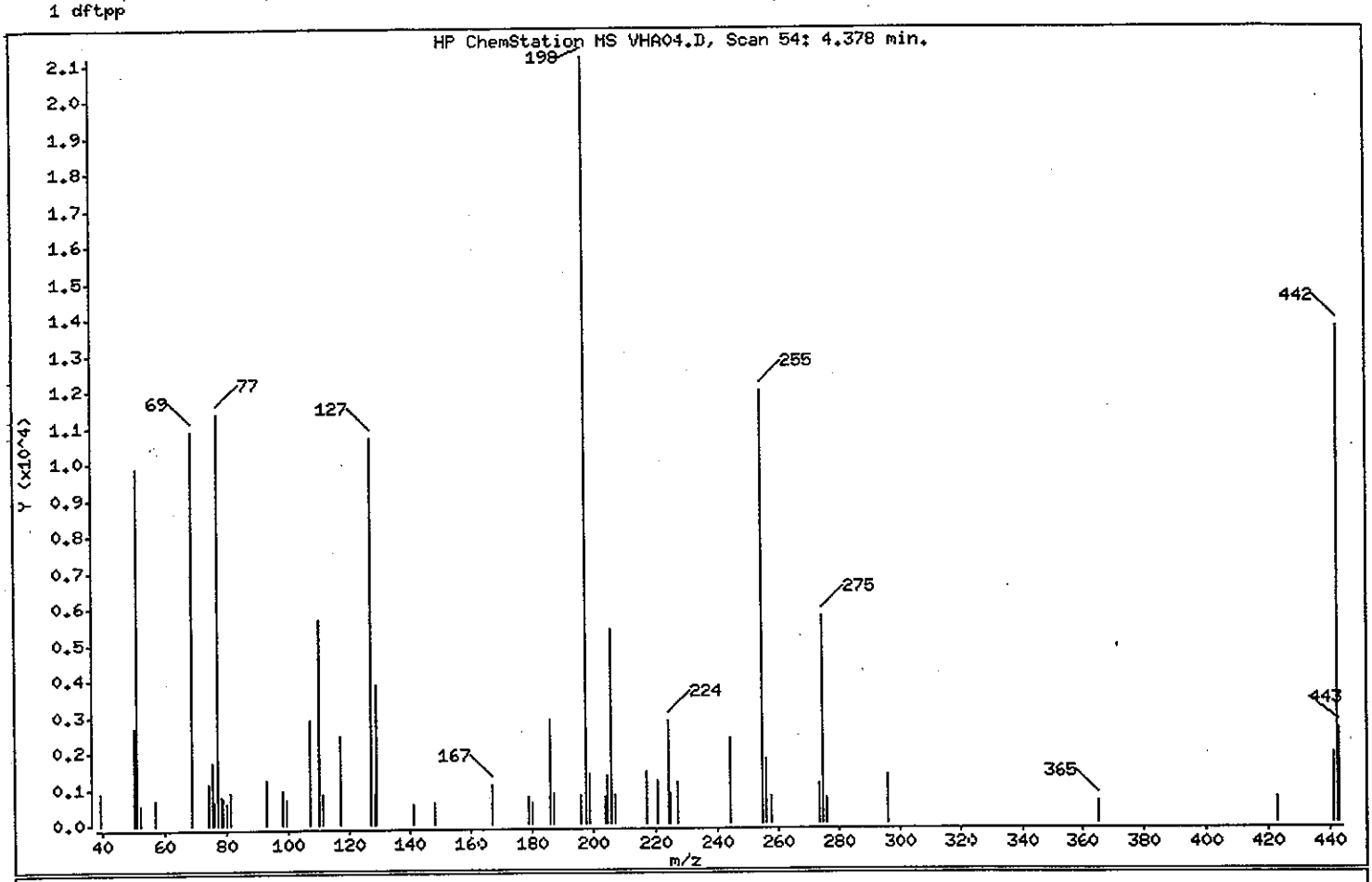
Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.55
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.31
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.40
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	26.96
365	Greater than 1.00% of mass 198	2.85
441	Present, but less than mass 443	9.09
442	40.00 - 99.99% of mass 198	64.66
443	17.00 - 23.00% of mass 442	12.15 (18.78)

08/10/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA04.D

Date : 10-AUG-2004 22:15

Client ID: dftpp tune std

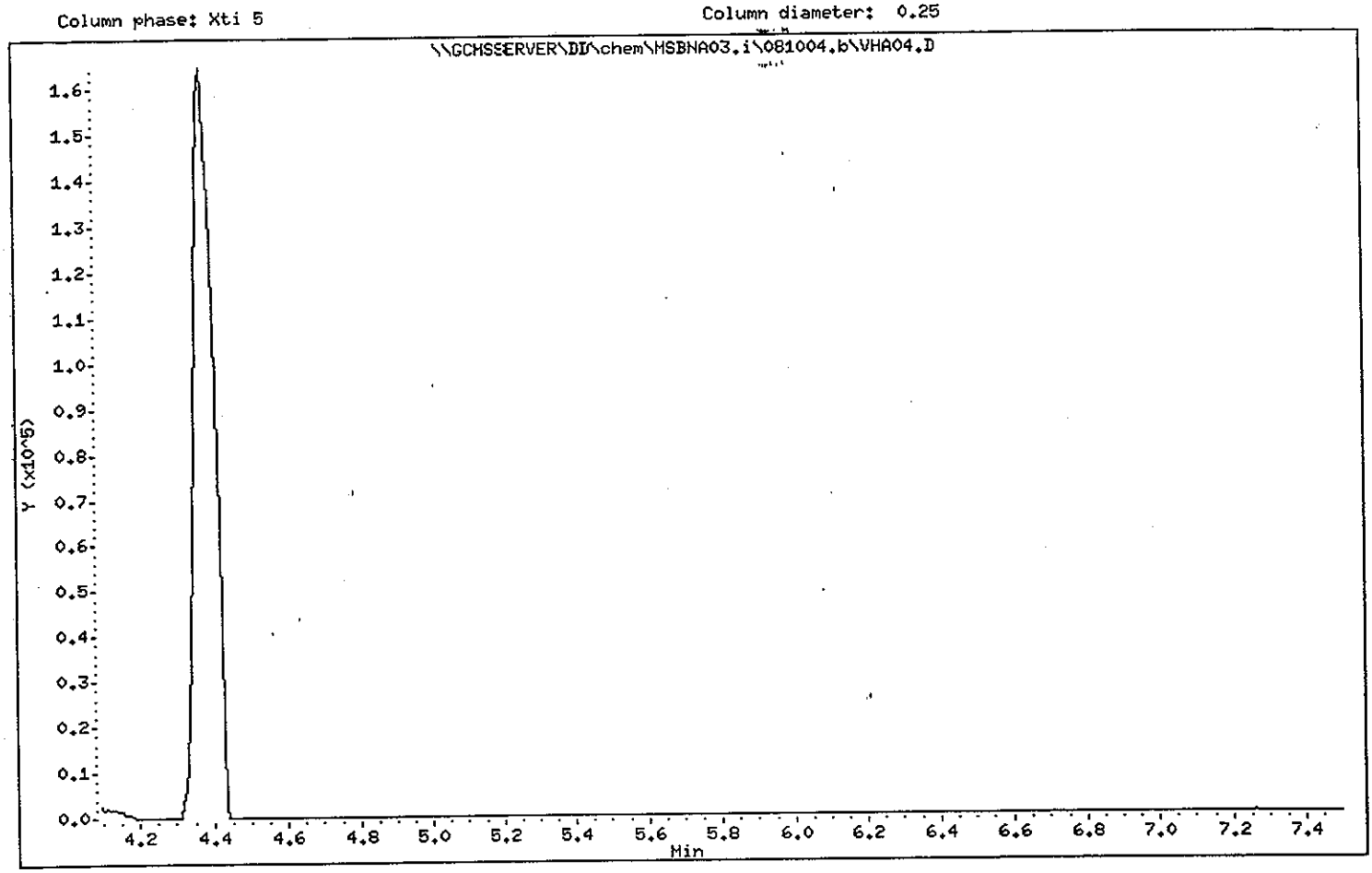
Instrument: MSBNA03.i

Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA04.D

Date : 10-AUG-2004 22:15

Client ID: dftpp tune std

Instrument: MSBNA03.i

Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: VHA04.D
Spectrum: HP ChemStation MS VHA04.D, Scan 54: 4.378 min.
Location of Maximum: 197.90
Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	692	98.00	937	186.90	853	255.90	1756
50.00	2708	99.00	679	195.90	778	257.90	709
51.00	9865	106.90	2905	197.90	21192	273.90	1095
52.00	514	109.90	5676	198.90	1391	275.00	5713
56.90	683	110.90	847	204.00	728	276.00	663
68.90	10874	117.00	2452	205.00	1321	295.90	1325
74.00	1111	127.00	10681	206.00	5360	364.90	603
74.90	1728	128.00	821	206.90	792	423.00	708
76.00	646	128.90	3881	216.90	1412	441.00	1927
77.00	11375	140.90	544	220.90	1196	442.00	13703
78.00	771	148.00	603	224.00	2827	443.00	2574
78.90	755	166.90	1070	225.00	821		
80.00	576	178.90	713	226.90	1109		
80.90	890	179.90	584	244.00	2347		
92.90	1229	186.00	2862	254.90	11943		

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By: /mm 7/19/04
Calnum: 524285642001 Name: 6PTBNA3 Type: (normal) Date: 16-JUL-2004 09:58 Inj Vol (uL): 1

see grant reports for manual integration due to splitting / mis-identification

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	vgg04	524285642004	2ug/mL	16-JUL-2004 09:58	04WS1164
2	vgg05	524285642005	10ug/mL	16-JUL-2004 10:33	04WS1165
3	vgg06	524285642006	20ug/mL	16-JUL-2004 11:12	04WS1166
4	vgg07	524285642007	50ug/mL	16-JUL-2004 11:49	04WS1167
5	vgg08	524285642008	80ug/mL	16-JUL-2004 12:25	04WS1168
6	vgg09	524285642009	120ug/mL	16-JUL-2004 13:00	04WS1169
7	vgg10	524285642010	160ug/mL	16-JUL-2004 13:38	04WS1170

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine	0.5966	0.5861	0.5813	0.5762	0.5793	0.5767	AVRG	R			1.716173		ng	0.5827	1	0.0500	0.99	15	
Pyridine	1.4413	1.3999	1.4210	1.4288	1.4417	1.4659	AVRG	R			0.697790		ng	1.4331	2	0.0500	0.99	15	
Phenol	1.7225	1.7651	1.7614	1.7483	1.7323	1.6866	AVRG	R			0.576024		ng	1.7360	2	0.0500	0.99	15	
Aniline	0.6617	0.7171	0.6946	0.6845	0.6660	0.6506	AVRG	R			1.472575		ng	0.6791	4	0.0500	0.99	15	
bis(2-Chloroethyl)ether	1.0879	1.0671	1.0577	1.0262	0.9818	0.8900	AVRG	R			0.981872		ng	1.0185	7	0.0500	0.99	15	
2-Chlorophenol	1.3162	1.3096	1.3473	1.3894	1.4057	1.4371	AVRG	R			0.731232		ng	1.3676	4	0.0500	0.99	15	
1,3-Dichlorobenzene	1.5269	1.4945	1.5479	1.5606	1.5907	1.4931	AVRG	R			0.651207		ng	1.5356	3	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5923	1.5692	1.6319	1.6274	1.5695	1.3774	AVRG	R			0.640496		ng	1.5613	6	0.0500	0.99	15	
Benzyl alcohol	0.8032	0.8417	0.9092	0.9347	0.9349	0.9542	AVRG	R			1.115674		ng	0.8963	7	0.0500	0.99	15	
1,2-Dichlorobenzene	1.4715	1.4653	1.5136	1.4526	1.3546	1.1980	AVRG	R			0.709599		ng	1.4092	8	0.0500	0.99	15	
2-Methylphenol	1.0751	1.1134	1.1236	1.0467	0.9524	0.8844	AVRG	R			0.968450		ng	1.0326	9	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether	1.9569	1.9126	1.8346	1.7154	1.6081	1.4896	AVRG	R			0.570492		ng	1.7529	10	0.0500	0.99	15	
4-Methylphenol	1.6033	1.5839	1.6617	1.6816	1.6595	1.6803	AVRG	R			0.607883		ng	1.6451	3	0.0500	0.99	15	
N-Nitroso-di-n-propylamine	0.7383	0.7672	0.8079	0.8054	0.7846	0.8016	AVRG	R			1.275245		ng	0.7842	3	0.0500	0.99	15	
Hexachloroethane	0.5639	0.5675	0.5830	0.5819	0.5640	0.5044	AVRG	R			1.783244		ng	0.5608	5	0.0500	0.99	15	
Nitrobenzene	0.4351	0.4286	0.4434	0.4444	0.4236	0.3925	AVRG	R			2.336829		ng	0.4279	4	0.0500	0.99	15	
Isophorone	0.7278	0.7597	0.7918	0.7922	0.7964	0.8151	AVRG	R			1.281238		ng	0.7805	4	0.0500	0.99	15	
2-Nitrophenol	0.2088	0.2071	0.2183	0.2352	0.2407	0.2170	AVRG	R			4.520773		ng	0.2212	6	0.0500	0.99	15	

ICAL: Ok except Benzaldehyde fails %RSD + r min RF
ICV: Ok except 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail %D
— Benzo(g,h,i)perylene ↓ fails accuracy in

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

7/16/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524285642001 Name: 6PTBNA3 Type: (normal) Date: 16-JUL-2004 09:58 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2803	0.2781	0.2970	0.3187	0.3181	0.2936	AVRG	R		3.359754		ng	0.2976	6	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4468	0.4467	0.4805	0.4846	0.4726	0.4362	AVRG	R		2.168095		ng	0.4612	4	0.0500	0.99	15	
Benzoic acid		0.1186	0.1530	0.1762	0.2129m	0.2148m	0.2298	QUAD	R	5.311060	4.872378	-0.01804	ng	0.1842	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3122	0.3114	0.3427	0.3594	0.3533	0.3449	AVRG	R		2.964532		ng	0.3373	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3465	0.3455	0.3738	0.3912	0.3846	0.3468	AVRG	R		2.741667		ng	0.3647	6	0.0500	0.99	15	
Naphthalene	1.0988	1.1140	1.1029	1.1441	1.1406	1.0902	0.9335	AVRG	R		0.918126		ng	1.0892	7	0.0500	0.99	15	
4-Chloroaniline		0.4125	0.4209	0.4575	0.4612	0.4648	0.4498	AVRG	R		2.249925		ng	0.4445	5	0.0500	0.99	15	
Hexachlorobutadiene		0.2071	0.2073	0.2192	0.2300	0.2164	0.1733	AVRG	R		4.787352		ng	0.2089	9	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.3256	0.3266	0.3499	0.3655	0.3571	0.3367	AVRG	R		2.910641		ng	0.3436	5	0.0500	0.99	15	
2-Methylnaphthalene	0.7102	0.7583	0.7738	0.8192	0.8132	0.7771	0.6787	AVRG	R		1.313160		ng	0.7615	7	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2670	0.2577	0.3045	0.3251	0.3233	0.2837	AVRG	R		3.406439		ng	0.2936	10	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3703	0.3671	0.4186	0.4327	0.4447	0.4105	AVRG	R		2.455263		ng	0.4073	8	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3967	0.3928	0.4312	0.4585	0.4611	0.3953	AVRG	R		2.366295		ng	0.4226	8	0.0500	0.99	15	
2-Chloronaphthalene		1.0899	1.0508	1.1693	1.1491	1.1570	0.9600	AVRG	R		0.912396		ng	1.0960	7	0.0500	0.99	15	
2-Nitroaniline		0.3934	0.3755	0.3967	0.3971	0.3967	0.3606	AVRG	R		2.586309		ng	0.3867	4	0.0500	0.99	15	
Dimethylphthalate		1.3302	1.3200	1.4784	1.4796	1.4712	1.2739	AVRG	R		0.718280		ng	1.3922	7	0.0500	0.99	15	
2,6-Dinitrotoluene		0.3102	0.3058	0.3493	0.3652	0.3800	0.3537	AVRG	R		2.906813		ng	0.3440	9	0.0500	0.99	15	
Acenaphthylene	1.7245	1.8119	1.7557	1.9057	1.8935	1.8145	1.5050	AVRG	R		0.564026		ng	1.7730	8	0.0500	0.99	15	
3-Nitroaniline		0.2899	0.2931	0.3344	0.3573	0.3687	0.3580	AVRG	R		2.997655		ng	0.3336	10	0.0500	0.99	15	
Acenaphthene	1.0926	1.1520	1.1486	1.2611	1.2250	1.1557	0.8958	AVRG	R		0.882639		ng	1.1330	10	0.0500	0.99	15	
2,4-Dinitrophenol		0.1498	0.1771	0.2220	0.2367	0.2460	0.2395	LINR	R	4.754286	3.998277		ng	0.2118	0.999	0.0500	0.99	15	
4-Nitrophenol		0.1503	0.1508	0.1537	0.1498	0.1509	0.1453	AVRG	R		6.660670		ng	0.1501	2	0.0500	0.99	15	
Dibenzofuran		1.6802	1.6536	1.7961	1.7288	1.6437	1.3239	AVRG	R		0.610601		ng	1.6377	10	0.0500	0.99	15	
2,4-Dinitrotoluene		0.4299	0.4407	0.4760	0.4690	0.4540	0.4071	AVRG	R		2.241596		ng	0.4461	6	0.0500	0.99	15	
Diethylphthalate		1.3116	1.3004	1.4130	1.3899	1.3333	1.1112	AVRG	R		0.763419		ng	1.3099	8	0.0500	0.99	15	
Fluorene	1.3430	1.3768	1.3704	1.4930	1.4369	1.3934	1.1165	AVRG	R		0.734519		ng	1.3614	9	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6848	0.6746	0.7786	0.7548	0.7128	0.5480	AVRG	R		1.444587		ng	0.6922	12	0.0500	0.99	15	
4-Nitroaniline		0.2391	0.2452	0.2522	0.2648	0.2938	0.2577	AVRG	R		3.863834		ng	0.2588	7	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1254	0.1309	0.1630	0.1773	0.1732		LINR	R	4.156339	5.515978		ng	0.1540	0.999	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.4987	0.4895	0.5678	0.5777	0.5707	0.4420	AVRG	R		1.907015		ng	0.5244	11	0.0500	0.99	15	
Azobenzene		0.8099	0.7744	0.8030	0.7625	0.7944	0.5778	AVRG	R		1.326855		ng	0.7537	12	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524285642001 Name: 6PTBNA3 Type: (normal) Date: 16-JUL-2004 09:58 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2240	0.2204	0.2659	0.2763	0.2726	0.2320	AVRG	R		4.023708		ng	0.2485	10	0.0500	0.99	15	
Hexachlorobenzene		0.2412	0.2444	0.2909	0.3171	0.2964	0.2463	AVRG	R		3.666921		ng	0.2727	12	0.0500	0.99	15	
Pentachlorophenol		0.1515	0.1550	0.1882	0.2075	0.2084	0.2033	AVRG	R		5.386626		ng	0.1856	14	0.0500	0.99	15	
Phenanthrene	1.1003	1.1040	1.0727	1.1666	1.1570	1.1209	0.9597	AVRG	R		0.911313		ng	1.0973	6	0.0500	0.99	15	
Anthracene	1.0859	1.1033	1.0816	1.1701	1.1292	1.0354	0.8929	AVRG	R		0.933538		ng	1.0712	8	0.0500	0.99	15	
Carbazole		0.6960	0.6521	0.7507	0.8807	0.9184	0.9152	AVRG	R		1.246570		ng	0.8022	15	0.0500	0.99	15	
Di-n-butylphthalate		1.3429	1.2959	1.3356	1.2668	1.1597	0.9263	AVRG	R		0.818863		ng	1.2212	13	0.0500	0.99	15	
Fluoranthene	1.3179	1.3460	1.2918	1.3907	1.3604	1.3309	1.1029	AVRG	R		0.765813		ng	1.3058	7	0.0500	0.99	15	
Benzidine			0.0535	0.0330	0.0327	0.0321	0.0280	AVRG	R		27.89432		ng	0.0358	28	0.0500	0.99	15	irf rsd ***
Pyrene	1.2222	1.3056	1.2848	1.5037	1.5804	1.4988	1.2969	AVRG	R		0.722220		ng	1.3846	10	0.0500	0.99	15	
Butylbenzylphthalate		0.5288	0.5513	0.6614	0.7152	0.6956	0.6139	AVRG	R		1.593126		ng	0.6277	12	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3790	0.3840	0.4792	0.5447	0.5825	0.5205	LINR	R	4.595648	1.776252		ng	0.4816	0.991	0.0500	0.99	15	
Benzo(a)anthracene	1.1776	1.2333	1.2206	1.3925	1.5047	1.5450	1.4550	AVRG	R		0.734617		ng	1.3613	11	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.7372	0.7819	0.9374	0.9738	0.9605	0.7880	AVRG	R		1.158582		ng	0.8631	12	0.0500	0.99	15	
Chrysene	1.1288	1.1347	1.1181	1.2772	1.3867	1.4266	1.2924	AVRG	R		0.798681		ng	1.2521	10	0.0500	0.99	15	
Di-n-octylphthalate		1.4069	1.5489	1.8699	2.0234	2.1092	2.0951	LINR	R	5.183317	0.460097		ng	1.8422	0.999	0.0500	0.99	15	- RSD < 30%
Benzo(b)fluoranthene	1.2820	1.4188	1.5207	1.6857	2.0908	2.4491	2.8584	QUAD	R	3.455734	0.527799	-0.00041	ng	1.9008	0.998	0.0500	0.99	15	
Benzo(k)fluoranthene	1.2338	1.4746	1.4334	1.6330	1.5827	1.5073	1.4170m	AVRG	R		0.680808		ng	1.4688	9	0.0500	0.99	15	
Benzo(a)pyrene	1.0018	1.2085	1.2566	1.3999	1.5178	1.5895	1.7016	QUAD	R	1.487009	0.713649	-0.00048	ng	1.3822	1.000	0.0500	0.99	15	- RSD < 30
Indeno(1,2,3-cd)pyrene	1.1997	1.4552	1.4772	1.5922	1.5410	1.5356	1.6379	AVRG	R		0.670575		ng	1.4913	10	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9382	1.1730	1.2199	1.3819	1.3716	1.3713	1.4451	AVRG	R		0.786431		ng	1.2716	14	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.0063	1.1828	1.1602	1.1399	1.0110	1.0184	1.0530	AVRG	R		0.924505		ng	1.0817	7	0.0500	0.99	15	
2-Fluorophenol		1.2146	1.2063	1.2224	1.2403	1.2580	1.2829	AVRG	R		0.808128		ng	1.2374	2	0.0500	0.99	15	
Phenol-d5		1.6276	1.6252	1.6592	1.6658	1.6585	1.6349	AVRG	R		0.607827		ng	1.6452	1	0.0500	0.99	15	
Nitrobenzene-d5		0.4350	0.4299	0.4414	0.4474	0.4419	0.4164	AVRG	R		2.297036		ng	0.4353	3	0.0500	0.99	15	
2-Fluorobiphenyl		1.2971	1.2358	1.3382	1.3176	1.2191	0.9311	AVRG	R		0.817553		ng	1.2232	12	0.0500	0.99	15	
2,4,6-Tribromophenol		0.1870	0.1924	0.2337	0.2720	0.2858		LINR	R	6.934640	3.339289		ng	0.2342	0.996	0.0500	0.99	15	
Terphenyl-d14		0.9802	1.0064	1.2198	1.2414	1.1280	0.9331	AVRG	R		0.921826		ng	1.0848	12	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG04.D
Report Date: 16-Jul-2004 15:11

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 09:58 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1164
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:11 target Quant Type: ISTD
Cal Date : 16-JUL-2004 09:58 Cal File: VGG04.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
2 Pyridine	79	4.556	4.525	(0.635)	4478	2.00000	1.3541
$ 3 2-Fluorophenol	112	5.777	5.777	(0.805)	5272	2.00000	1.8463
$ 4 Phenol-d5	99	6.709	6.730	(0.935)	6867	2.00000	1.8088
5 Phenol	94	6.719	6.750	(0.937)	7904	2.00000	1.9731
6 Aniline	66	6.833	6.854	(0.952)	2942	2.00000	1.8775
7 bis(2-Chloroethyl)ether	63	6.853	6.874	(0.955)	4869	2.00000	2.0718
8 2-Chlorophenol	128	6.967	6.978	(0.971)	5822	2.00000	1.8449
9 1,3-Dichlorobenzene	146	7.133	7.144	(0.994)	6839	2.00000	1.9300
* 10 1,4-Dichlorobenzene-d4	152	7.174	7.175	(1.000)	92298	40.0000	
11 1,4-Dichlorobenzene	146	7.185	7.195	(1.001)	7237	2.00000	2.0088
12 Benzyl alcohol	108	7.309	7.330	(1.019)	3286	2.00000	1.5888
13 2-Methylphenol	107	7.412	7.433	(1.033)	4728	2.00000	1.9843
14 1,2-Dichlorobenzene	146	7.412	7.423	(1.033)	6270	2.00000	1.9281
15 bis(2-Chloroisopropyl) ether	45	7.464	7.475	(1.040)	9011	2.00000	2.2278
16 4-Methylphenol	107	7.568	7.589	(1.055)	6770	2.00000	1.7835
17 N-Nitroso-di-n-propylamine	70	7.630	7.671	(1.063)	3125	2.00000	1.7270
$ 19 Nitrobenzene-d5	82	7.837	7.858	(0.901)	6703	2.00000	1.8865
20 Nitrobenzene	77	7.857	7.889	(0.904)	6969	2.00000	1.9954
21 Isophorone	82	8.106	8.137	(0.932)	10391	2.00000	1.6312
22 2,4-Dimethylphenol	122	8.209	8.230	(0.944)	4258	2.00000	1.7528

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG04.D
Report Date: 16-Jul-2004 15:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23 2-Nitrophenol	139	8.240	8.250	(0.948)	2873	2.00000	1.5914
24 bis(2-Chloroethoxy)methane	93	8.333	8.355	(0.958)	7141	2.00000	1.8970
25 Benzoic acid	122	8.251	8.396	(0.949)	1255	2.00000	6.0598
26 2,4-Dichlorophenol	162	8.499	8.520	(0.977)	4583	2.00000	1.6647
27 1,2,4-Trichlorobenzene	180	8.634	8.644	(0.993)	5297	2.00000	1.7794
* 28 Naphthalene-d8	136	8.696	8.706	(1.000)	326452	40.0000	
29 Naphthalene	128	8.716	8.738	(1.002)	17935	2.00000	2.0176
30 4-Chloroaniline	127	8.768	8.789	(1.008)	6010	2.00000	1.6568
31 Hexachlorobutadiene	225	8.903	8.903	(1.024)	3230	2.00000	1.8946
32 4-Chloro-3-methylphenol	107	9.306	9.317	(1.070)	4664	2.00000	1.6633
33 2-Methylnaphthalene	142	9.555	9.566	(1.099)	11593	2.00000	1.8653
34 Hexachlorocyclopentadiene	237	9.824	9.824	(0.901)	2167	2.00000	1.5421
35 2,4,6-Trichlorophenol	196	9.917	9.928	(0.910)	3197	2.00000	1.6398
36 2,4,5-Trichlorophenol	196	9.969	9.980	(0.915)	3302	2.00000	1.6323
$ 37 2-Fluorobiphenyl	172	10.000	10.021	(0.917)	12415	2.00000	2.1204
38 2-Chloronaphthalene	162	10.176	10.187	(0.934)	10331	2.00000	1.9692
39 2-Nitroaniline	65	10.310	10.342	(0.946)	3073	2.00000	1.6604
40 Dimethylphthalate	163	10.517	10.549	(0.965)	11774	2.00000	1.7668
41 2,6-Dinitrotoluene	165	10.642	10.673	(0.976)	2458	2.00000	1.4927(M)
42 Acenaphthylene	152	10.714	10.725	(0.983)	16509	2.00000	1.9453
43 3-Nitroaniline	138	10.828	10.859	(0.993)	2565	2.00000	1.6063
* 44 Acenaphthene-d10	164	10.900	10.911	(1.000)	191463	40.0000	
45 Acenaphthene	154	10.942	10.952	(1.004)	10460	2.00000	1.9288
48 Dibenzofuran	168	11.128	11.149	(1.021)	15427	2.00000	1.9679
49 Diethylphthalate	149	11.387	11.408	(1.045)	11626	2.00000	1.8542
50 4-Chlorophenyl-phenylether	204	11.511	11.532	(1.056)	6146	2.00000	1.8548
51 Fluorene	166	11.563	11.584	(1.061)	12857	2.00000	1.9729
52 2,4-Dinitrotoluene	165	11.128	11.159	(1.021)	2944	2.00000	1.3787
55 N-Nitrosodiphenylamine	169	11.666	11.698	(0.915)	8610	2.00000	1.8888
56 Azobenzene	77	11.708	11.739	(0.918)	14041	2.00000	2.1432
58 4-Bromophenyl-phenylether	248	12.132	12.143	(0.951)	3798	2.00000	1.7580
59 Hexachlorobenzene	284	12.360	12.381	(0.969)	4058	2.00000	1.7118
* 61 Phenanthrene-d10	188	12.753	12.764	(1.000)	347705	40.0000	
62 Phenanthrene	178	12.784	12.805	(1.002)	19129	2.00000	2.0054
63 Anthracene	178	12.836	12.857	(1.006)	18879	2.00000	2.0274
64 Carbazole	167	13.012	13.033	(1.020)	16205	2.00000	2.3238
65 Di-n-butylphthalate	149	13.384	13.405	(1.050)	22483	2.00000	2.1179
66 Fluoranthene	202	14.285	14.316	(1.120)	22912	2.00000	2.0185
68 Pyrene	202	14.616	14.637	(0.874)	23352	2.00000	1.7653
$ 69 Terphenyl-d14	244	14.740	14.761	(0.881)	17717	2.00000	1.7095
70 Butylbenzylphthalate	149	15.475	15.496	(0.925)	8291	2.00000	1.3825
71 bis(2-Ethylhexyl)phthalate	149	16.531	16.562	(0.988)	11045	2.00000	1.3394
72 3,3'-Dichlorobenzidine	252	16.583	16.635	(0.991)	6430	2.00000	5.7911
73 Benzo(a)anthracene	228	16.676	16.716	(0.997)	22501	2.00000	1.7302
* 74 Chrysene-d12	240	16.727	16.759	(1.000)	382141	40.0000	
75 Chrysene	228	16.779	16.831	(1.003)	21568	2.00000	1.8030
76 Di-n-octylphthalate	149	18.021	18.053	(0.867)	16372	2.00000	6.0907
77 Benzo(b)fluoranthene	252	19.501	19.616	(0.938)	21284	2.00000	4.8063(AH)
78 Benzo(k)fluoranthene	252	19.574	19.678	(0.941)	20483	2.00000	1.6799(A)
79 Benzo(a)pyrene	252	20.567	20.661	(0.989)	16632	2.00000	2.9149
* 80 Perylene-d12	264	20.795	20.837	(1.000)	332035	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.055	24.190	(1.157)	19917	2.00000	1.6089
82 Dibenz(a,h)anthracene	278	24.076	24.190	(1.158)	15575	2.00000	1.4755
83 Benzo(g,h,i)perylene	276	24.811	24.915	(1.193)	16706	2.00000	1.8606

7/16/04

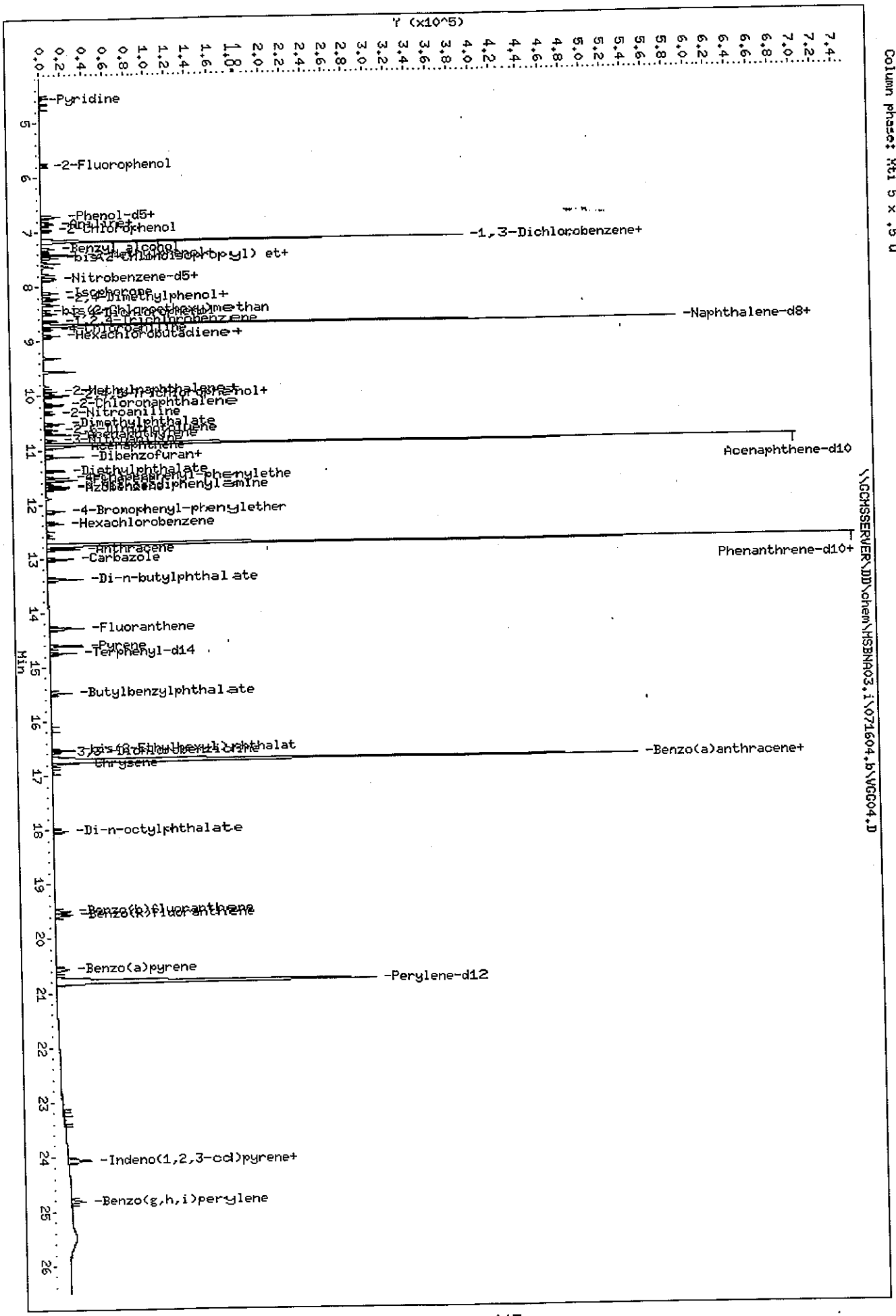
Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG04.D
Report Date: 16-Jul-2004 15:11

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\HSBNA03.i\071604.b\VGG04.D
Date : 16-JUL-2004 09:58
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1164
Volume Injected (uL): 1.0
Column phase: Rtl 5 x .5 u

Instrument: HSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG05.D
Report Date: 16-Jul-2004 15:11

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 10:33 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1165
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:11 target Quant Type: ISTD
Cal Date : 16-JUL-2004 10:33 Cal File: VGG05.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	4.527	4.535	(0.632)	15112	10.0000	10.2380
2 Pyridine	79	4.527	4.525	(0.632)	36511	10.0000	10.0573
$ 3 2-Fluorophenol	112	5.769	5.777	(0.805)	30769	10.0000	9.8158
$ 4 Phenol-d5	99	6.711	6.730	(0.936)	41229	10.0000	9.8927
5 Phenol	94	6.721	6.750	(0.938)	43633	10.0000	9.9218
6 Aniline	66	6.835	6.854	(0.954)	16763	10.0000	9.7446
7 bis(2-Chloroethyl)ether	63	6.856	6.874	(0.957)	27559	10.0000	10.6820
8 2-Chlorophenol	128	6.959	6.978	(0.971)	33342	10.0000	9.6245
9 1,3-Dichlorobenzene	146	7.135	7.144	(0.996)	38680	10.0000	9.9435
* 10 1,4-Dichlorobenzene-d4	152	7.166	7.175	(1.000)	101327	40.0000	
11 1,4-Dichlorobenzene	146	7.187	7.195	(1.003)	40337	10.0000	10.1989
12 Benzyl alcohol	108	7.301	7.330	(1.019)	20347	10.0000	8.9613
13 2-Methylphenol	107	7.414	7.433	(1.035)	27233	10.0000	10.4113
14 1,2-Dichlorobenzene	146	7.414	7.423	(1.035)	37275	10.0000	10.4415
15 bis(2-Chloroisopropyl) ether	45	7.466	7.475	(1.042)	49571	10.0000	11.1638
16 4-Methylphenol	107	7.570	7.589	(1.056)	40615	10.0000	9.7463
17 N-Nitroso-di-n-propylamine	70	7.632	7.671	(1.065)	18703	10.0000	9.4154
18 Hexachloroethane	117	7.777	7.785	(1.085)	14285	10.0000	10.0560
$ 19 Nitrobenzene-d5	82	7.839	7.858	(0.901)	39394	10.0000	9.9912
20 Nitrobenzene	77	7.859	7.889	(0.904)	39404	10.0000	10.1669

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG05.D
Report Date: 16-Jul-2004 15:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	8.108	8.137	(0.932)	65913	10.0000	9.3244
22 2,4-Dimethylphenol	122	8.211	8.230	(0.944)	25382	10.0000	9.4157
23 2-Nitrophenol	139	8.242	8.250	(0.948)	18913	10.0000	9.4404
24 bis(2-Chloroethoxy)methane	93	8.336	8.355	(0.958)	40467	10.0000	9.6872
25 Benzoic acid	122	8.273	8.396	(0.951)	10738	10.0000	11.0624
26 2,4-Dichlorophenol	162	8.501	8.520	(0.977)	28273	10.0000	9.2544
27 1,2,4-Trichlorobenzene	180	8.625	8.644	(0.992)	31385	10.0000	9.5007
* 28 Naphthalene-d8	136	8.698	8.706	(1.000)	362275	40.0000	
29 Naphthalene	128	8.719	8.738	(1.002)	100898	10.0000	10.2283
30 4-Chloroaniline	127	8.770	8.789	(1.008)	37360	10.0000	9.2810
31 Hexachlorobutadiene	225	8.905	8.903	(1.024)	18756	10.0000	9.9141
32 4-Chloro-3-methylphenol	107	9.308	9.317	(1.070)	29490	10.0000	9.4773
33 2-Methylnaphthalene	142	9.557	9.566	(1.099)	68682	10.0000	9.9582
34 Hexachlorocyclopentadiene	237	9.826	9.824	(0.901)	15013	10.0000	9.0968
35 2,4,6-Trichlorophenol	196	9.919	9.928	(0.910)	20816	10.0000	9.0911
36 2,4,5-Trichlorophenol	196	9.961	9.980	(0.914)	22303	10.0000	9.3876
$ 37 2-Fluorobiphenyl	172	10.002	10.021	(0.917)	72923	10.0000	10.6048
38 2-Chloronaphthalene	162	10.168	10.187	(0.933)	61272	10.0000	9.9442
39 2-Nitroaniline	65	10.312	10.342	(0.946)	22115	10.0000	10.1740
40 Dimethylphthalate	163	10.519	10.549	(0.965)	74781	10.0000	9.5545
41 2,6-Dinitrotoluene	165	10.644	10.673	(0.976)	17441	10.0000	9.0180
42 Acenaphthylene	152	10.706	10.725	(0.982)	101862	10.0000	10.2196
43 3-Nitroaniline	138	10.830	10.859	(0.993)	16299	10.0000	8.6909
* 44 Acenaphthene-d10	164	10.902	10.911	(1.000)	224872	40.0000	
45 Acenaphthene	154	10.933	10.952	(1.003)	64764	10.0000	10.1681
46 2,4-Dinitrophenol	184	10.954	10.984	(1.005)	8419	10.0000	10.7419
47 4-Nitrophenol	109	10.965	11.004	(1.006)	8451	10.0000	10.0126
48 Dibenzofuran	168	11.130	11.149	(1.021)	94460	10.0000	10.2595
49 Diethylphthalate	149	11.389	11.408	(1.045)	73735	10.0000	10.0129
50 4-Chlorophenyl-phenylether	204	11.513	11.532	(1.056)	38496	10.0000	9.8919
51 Fluorene	166	11.565	11.584	(1.061)	77399	10.0000	10.1126
52 2,4-Dinitrotoluene	165	11.130	11.159	(1.021)	24166	10.0000	9.6357
53 4-Nitroaniline	138	11.606	11.656	(1.065)	13441	10.0000	9.2379
54 4,6-Dinitro-2-methylphenol	198	11.648	11.698	(0.913)	13131	10.0000	11.0714
55 N-Nitrosodiphenylamine	169	11.668	11.698	(0.915)	52230	10.0000	9.5093
56 Azobenzene	77	11.710	11.739	(0.918)	84827	10.0000	10.7456
$ 57 2,4,6-Tribromophenol	330	11.896	11.915	(1.091)	10514	10.0000	13.1798
58 4-Bromophenyl-phenylether	248	12.134	12.143	(0.951)	23460	10.0000	9.0122
59 Hexachlorobenzene	284	12.362	12.381	(0.969)	25266	10.0000	8.8453
60 Pentachlorophenol	266	12.569	12.588	(0.985)	15870	10.0000	8.1615
* 61 Phenanthrene-d10	188	12.755	12.764	(1.000)	418970	40.0000	
62 Phenanthrene	178	12.776	12.805	(1.002)	115640	10.0000	10.0612
63 Anthracene	178	12.838	12.857	(1.006)	115567	10.0000	10.3001
64 Carbazole	167	13.014	13.033	(1.020)	72906	10.0000	8.6767
65 Di-n-butylphthalate	149	13.386	13.405	(1.049)	140662	10.0000	10.9967
66 Fluoranthene	202	14.287	14.316	(1.120)	140984	10.0000	10.3078
68 Pyrene	202	14.618	14.637	(0.874)	144225	10.0000	9.4290
$ 69 Terphenyl-d14	244	14.742	14.761	(0.881)	108279	10.0000	9.0354
70 Butylbenzylphthalate	149	15.477	15.496	(0.925)	58421	10.0000	8.4251
71 bis(2-Ethylhexyl)phthalate	149	16.533	16.562	(0.988)	81439	10.0000	8.5411
72 3,3'-Dichlorobenzidine	252	16.585	16.635	(0.991)	41865	10.0000	11.3271
73 Benzo(a)anthracene	228	16.667	16.716	(0.996)	136243	10.0000	9.0600
* 74 Chrysene-d12	240	16.730	16.759	(1.000)	441879	40.0000	
75 Chrysene	228	16.781	16.831	(1.003)	125349	10.0000	9.0625

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG05.D
Report Date: 16-Jul-2004 15:11

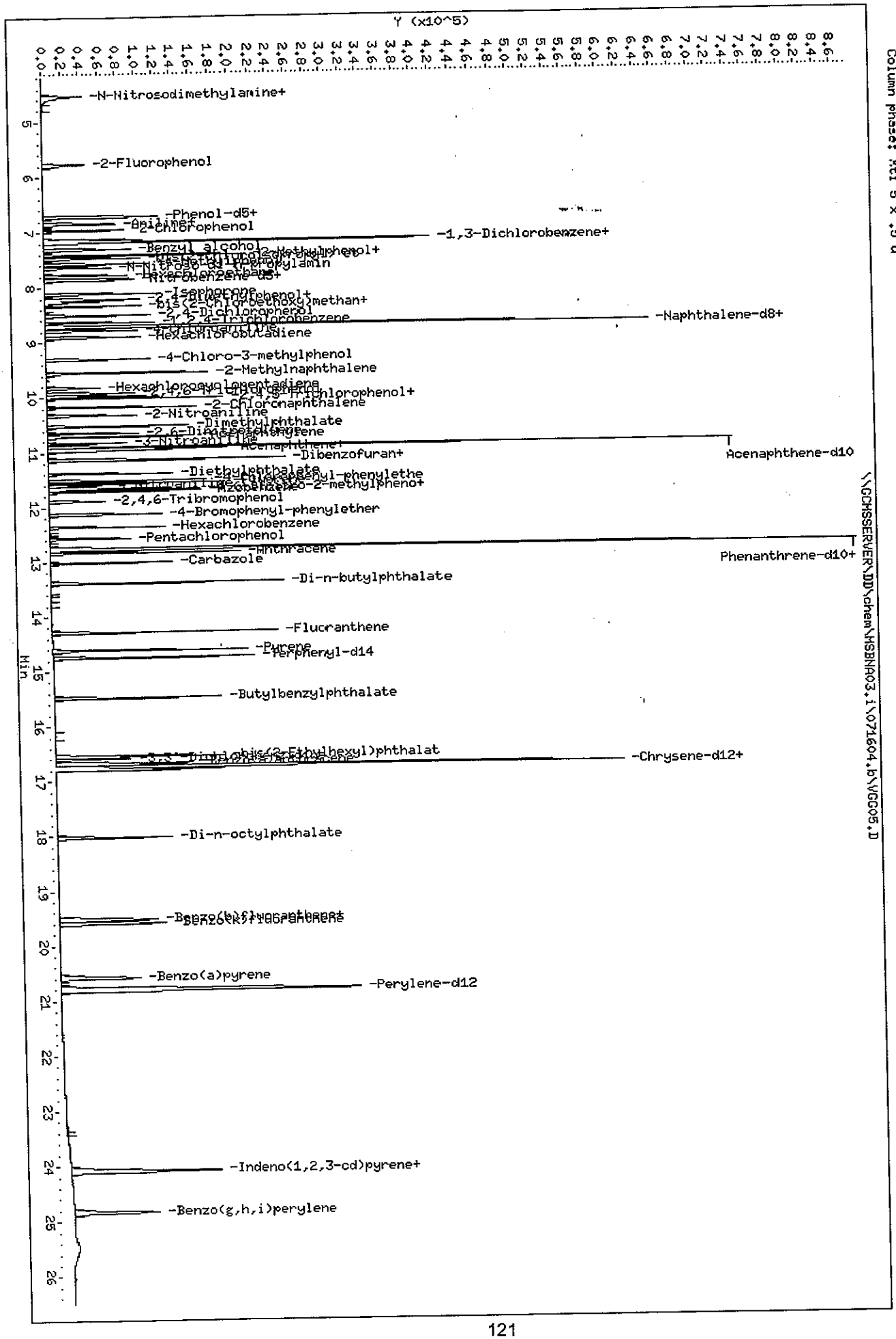
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
76 Di-n-octylphthalate	149	18.023	18.053	(0.867)	129108	10.0000	11.6562
77 Benzo(b)fluoranthene	252	19.514	19.616	(0.938)	130205	10.0000	10.8615(AH)
78 Benzo(k)fluoranthene	252	19.586	19.678	(0.942)	135327	10.0000	10.0394(A)
79 Benzo(a)pyrene	252	20.580	20.661	(0.990)	110907	10.0000	10.0409
* 80 Perylene-d12	264	20.797	20.837	(1.000)	367080	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.078	24.190	(1.158)	133547	10.0000	9.7584
82 Dibenz(a,h)anthracene	278	24.088	24.190	(1.158)	107647	10.0000	9.2249
83 Benzo(g,h,i)perylene	276	24.823	24.915	(1.194)	108547	10.0000	10.9351

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCHSSERVER\DD\chem\HSBNA03.i\071604.b\VGC05.D
Date : 16-JUL-2004 10:33
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1165
Volume Injected (uL): 1.0
Column phase: Rtl 5 x .5 u

Instrument: HSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG06.D
Report Date: 16-Jul-2004 15:11

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 11:12 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1166
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:11 target Quant Type: ISTD
Cal Date : 16-JUL-2004 11:12 Cal File: VGG06.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	4.527	4.535	(0.631)	29108	20.0000	20.1169
2 Pyridine	79	4.527	4.525	(0.631)	69526	20.0000	19.5371
$ 3 2-Fluorophenol	112	5.779	5.777	(0.805)	59910	20.0000	19.4970
$ 4 Phenol-d5	99	6.711	6.730	(0.935)	80714	20.0000	19.7568
5 Phenol	94	6.732	6.750	(0.938)	87660	20.0000	20.3343
6 Aniline	66	6.835	6.854	(0.952)	35614	20.0000	21.1196
7 bis(2-Chloroethyl)ether	63	6.856	6.874	(0.955)	52996	20.0000	20.9549
8 2-Chlorophenol	128	6.970	6.978	(0.971)	65039	20.0000	19.1521
9 1,3-Dichlorobenzene	146	7.135	7.144	(0.994)	74222	20.0000	19.4643
* 10 1,4-Dichlorobenzene-d4	152	7.177	7.175	(1.000)	99328	40.0000	
11 1,4-Dichlorobenzene	146	7.187	7.195	(1.001)	77931	20.0000	20.1008
12 Benzyl alcohol	108	7.311	7.330	(1.019)	41801	20.0000	18.7807
13 2-Methylphenol	107	7.415	7.433	(1.033)	55295	20.0000	21.5650
14 1,2-Dichlorobenzene	146	7.415	7.423	(1.033)	72773	20.0000	20.7955
15 bis(2-Chloroisopropyl) ether	45	7.466	7.475	(1.040)	94986	20.0000	21.8221
16 4-Methylphenol	107	7.570	7.589	(1.055)	78665	20.0000	19.2570
17 N-Nitroso-di-n-propylamine	70	7.642	7.671	(1.065)	38103	20.0000	19.5677
18 Hexachloroethane	117	7.777	7.785	(1.084)	28186	20.0000	20.2410
$ 19 Nitrobenzene-d5	82	7.839	7.858	(0.901)	76763	20.0000	19.7502
20 Nitrobenzene	77	7.870	7.889	(0.905)	76527	20.0000	20.0306

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG06.D
Report Date: 16-Jul-2004 15:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	8.119	8.137	(0.933)	135648	20.0000	19.4668
22 2,4-Dimethylphenol	122	8.212	8.230	(0.944)	49657	20.0000	18.6870
23 2-Nitrophenol	139	8.243	8.250	(0.948)	36988	20.0000	18.7295
24 bis(2-Chloroethoxy)methane	93	8.336	8.355	(0.958)	79759	20.0000	19.3691
25 Benzoic acid	122	8.294	8.396	(0.954)	27327	20.0000	20.0557
26 2,4-Dichlorophenol	162	8.501	8.520	(0.977)	55604	20.0000	18.4635
27 1,2,4-Trichlorobenzene	180	8.636	8.644	(0.993)	61688	20.0000	18.9438
* 28 Naphthalene-d8	136	8.698	8.706	(1.000)	357114	40.0000	
29 Naphthalene	128	8.719	8.738	(1.002)	196938	20.0000	20.2527
30 4-Chloroaniline	127	8.771	8.789	(1.008)	75151	20.0000	18.9389
31 Hexachlorobutadiene	225	8.905	8.903	(1.024)	37006	20.0000	19.8436
32 4-Chloro-3-methylphenol	107	9.309	9.317	(1.070)	58318	20.0000	19.0127
33 2-Methylnaphthalene	142	9.557	9.566	(1.099)	138175	20.0000	20.3235
34 Hexachlorocyclopentadiene	237	9.826	9.824	(0.901)	29564	20.0000	17.5593
35 2,4,6-Trichlorophenol	196	9.919	9.928	(0.910)	42103	20.0000	18.0242
36 2,4,5-Trichlorophenol	196	9.971	9.980	(0.915)	45052	20.0000	18.5878
$ 37 2-Fluorobiphenyl	172	10.002	10.021	(0.917)	141758	20.0000	20.2073
38 2-Chloronaphthalene	162	10.178	10.187	(0.934)	120532	20.0000	19.1748
39 2-Nitroaniline	65	10.313	10.342	(0.946)	43067	20.0000	19.4209
40 Dimethylphthalate	163	10.530	10.549	(0.966)	151408	20.0000	18.9621
41 2,6-Dinitrotoluene	165	10.644	10.673	(0.976)	35074	20.0000	17.7765
42 Acenaphthylene	152	10.716	10.725	(0.983)	201384	20.0000	19.8047
43 3-Nitroaniline	138	10.841	10.859	(0.994)	33624	20.0000	17.5742
* 44 Acenaphthene-d10	164	10.903	10.911	(1.000)	229411	40.0000	
45 Acenaphthene	154	10.944	10.952	(1.004)	131747	20.0000	20.2753
46 2,4-Dinitrophenol	184	10.954	10.984	(1.005)	20317	20.0000	18.9180
47 4-Nitrophenol	109	10.975	11.004	(1.007)	17297	20.0000	20.0878
48 Dibenzofuran	168	11.130	11.149	(1.021)	189676	20.0000	20.1936
49 Diethylphthalate	149	11.389	11.408	(1.045)	149158	20.0000	19.8543
50 4-Chlorophenyl-phenylether	204	11.513	11.532	(1.056)	77376	20.0000	19.4892
51 Fluorene	166	11.565	11.584	(1.061)	157196	20.0000	20.1321
52 2,4-Dinitrotoluene	165	11.141	11.159	(1.022)	50550	20.0000	19.7571
53 4-Nitroaniline	138	11.617	11.656	(1.065)	28122	20.0000	18.9456
54 4,6-Dinitro-2-methylphenol	198	11.658	11.698	(0.914)	28177	20.0000	18.6018
55 N-Nitrosodiphenylamine	169	11.669	11.698	(0.915)	105337	20.0000	18.6703
56 Azobenzene	77	11.720	11.739	(0.919)	166645	20.0000	20.5509
$ 57 2,4,6-Tribromophenol	330	11.896	11.915	(1.091)	22069	20.0000	19.7840
58 4-Bromophenyl-phenylether	248	12.134	12.143	(0.951)	47430	20.0000	17.7376
59 Hexachlorobenzene	284	12.362	12.381	(0.969)	52594	20.0000	17.9248
60 Pentachlorophenol	266	12.569	12.588	(0.985)	33362	20.0000	16.7026
* 61 Phenanthrene-d10	188	12.755	12.764	(1.000)	430371	40.0000	
62 Phenanthrene	178	12.786	12.805	(1.002)	230824	20.0000	19.5508
63 Anthracene	178	12.838	12.857	(1.006)	232740	20.0000	20.1938
64 Carbazole	167	13.014	13.033	(1.020)	140322	20.0000	16.2577
65 Di-n-butylphthalate	149	13.387	13.405	(1.049)	278863	20.0000	21.2235
66 Fluoranthene	202	14.298	14.316	(1.121)	277981	20.0000	19.7858
67 Benzidine	184	14.411	14.420	(0.861)	11649	20.0000	29.8420
68 Pyrene	202	14.618	14.637	(0.873)	279801	20.0000	18.5585
$ 69 Terphenyl-d14	244	14.753	14.761	(0.881)	219171	20.0000	18.5547
70 Butylbenzylphthalate	149	15.488	15.496	(0.925)	120053	20.0000	17.5649
71 bis(2-Ethylhexyl)phthalate	149	16.544	16.562	(0.988)	170275	20.0000	18.1176
72 3,3'-Dichlorobenzidine	252	16.585	16.635	(0.991)	83620	20.0000	18.2364
73 Benzo(a)anthracene	228	16.678	16.716	(0.996)	265816	20.0000	17.9335
* 74 Chrysene-d12	240	16.740	16.759	(1.000)	435548	40.0000	

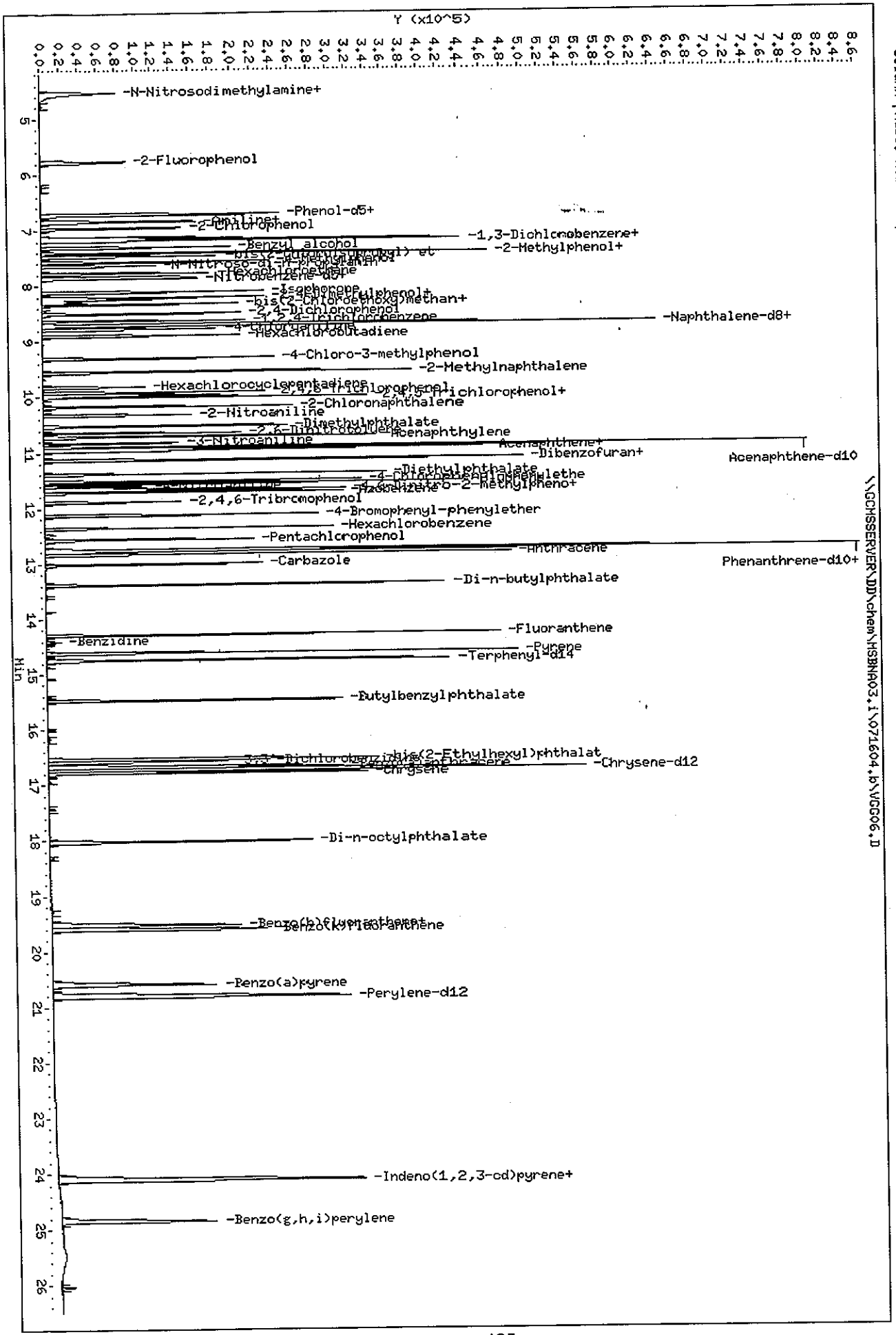
Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG06.D
Report Date: 16-Jul-2004 15:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.792	16.831	(1.003)	243494	20.0000	17.8601
76 Di-n-octylphthalate	149	18.024	18.053	(0.866)	274224	20.0000	19.4359
77 Benzo(b)fluoranthene	252	19.524	19.616	(0.938)	269234	20.0000	19.1279(AH)
78 Benzo(k)fluoranthene	252	19.607	19.678	(0.942)	253773	20.0000	19.5168(A)
79 Benzo(a)pyrene	252	20.590	20.661	(0.990)	222470	20.0000	19.1158
* 80 Perylene-d12	264	20.808	20.837	(1.000)	354095	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.099	24.190	(1.158)	261541	20.0000	19.8119
82 Dibenz(a,h)anthracene	278	24.109	24.190	(1.159)	215988	20.0000	19.1880
83 Benzo(g,h,i)perylene	276	24.844	24.915	(1.194)	205406	20.0000	21.4517

7/16/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.


Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG06.D
Date : 16-JUL-2004 11:12
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1166
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u
Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25
Y (x10^5)
Min
-N-Nitrosodimethylamine+
-2-Fluorophenol
-Phenol-d5+
-Aniline+
-2-Chlorophenol
-1,3-Dichlorobenzene+
-Benzyl alcohol
-2-Methylphenol+
-bis(2-Chloroisopropyl) et
-N-Nitroso-di-n-propylamine
-Hexachloroethane
-Nitrobenzene-d5+
-Isophorone
-2-Nitrophenol+
-bis(2-Chloroethoxy)methan+
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-Naphthalene-d8+
-4-Chloroaniline
-Hexachlorobutadiene
-4-Chloro-3-methylphenol
-2-Methylnaphthalene
-Hexachlorocyclopentadiene
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol+
-2-Chloronaphthalene
-2-Nitroaniline
-Dimethylphthalate
-2,6-Dinitrotoluene
-Acenaphthylene
-3-Nitroaniline
-Acenaphthene+
-Dibenzofuran+
Acenaphthene-d10
-Diethylphthalate
-4-Chlorophenyl-phenylethe
-4,6-Dinitro-2-methylpheno+
-Azobenzene
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene
-Pentachlorophenol
-Anthracene
-Carbazole
Phenanthrene-d10+
-Di-n-butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
-3,3'-Dichlorobenzidine
-bis(2-Ethylhexyl)phthalat
-Chrysene-d12
-Chrysene
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(k)fluoranthene
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG06.D

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG07.D
Report Date: 16-Jul-2004 15:11

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 11:49 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1167
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:11 target Quant Type: ISTD
Cal Date : 16-JUL-2004 11:49 Cal File: VGG07.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	4.524	4.535	(0.631)	77430	50.0000	49.8825
2 Pyridine	79	4.524	4.525	(0.631)	189271	50.0000	49.5777
$ 3 2-Fluorophenol	112	5.777	5.777	(0.805)	162821	50.0000	49.3933
$ 4 Phenol-d5	99	6.718	6.730	(0.937)	221000	50.0000	50.4254
5 Phenol	94	6.739	6.750	(0.939)	234616	50.0000	50.7313
6 Aniline	66	6.843	6.854	(0.954)	92515	50.0000	51.1408
7 bis(2-Chloroethyl)ether	63	6.863	6.874	(0.957)	140881	50.0000	51.9260
8 2-Chlorophenol	128	6.967	6.978	(0.971)	179454	50.0000	49.2590
9 1,3-Dichlorobenzene	146	7.143	7.144	(0.996)	206175	50.0000	50.4002
* 10 1,4-Dichlorobenzene-d4	152	7.174	7.175	(1.000)	106557	40.0000	
11 1,4-Dichlorobenzene	146	7.195	7.195	(1.003)	217369	50.0000	52.2626
12 Benzyl alcohol	108	7.319	7.330	(1.020)	121099	50.0000	50.7172
13 2-Methylphenol	107	7.422	7.433	(1.035)	149654	50.0000	54.4055
14 1,2-Dichlorobenzene	146	7.412	7.423	(1.033)	201606	50.0000	53.7024
15 bis(2-Chloroisopropyl) ether	45	7.474	7.475	(1.042)	244364	50.0000	52.3317
16 4-Methylphenol	107	7.577	7.589	(1.056)	221334	50.0000	50.5064
17 N-Nitroso-di-n-propylamine	70	7.650	7.671	(1.066)	107605	50.0000	51.5114
18 Hexachloroethane	117	7.774	7.785	(1.084)	77649	50.0000	51.9786
$ 19 Nitrobenzene-d5	82	7.847	7.858	(0.901)	209077	50.0000	50.7004
20 Nitrobenzene	77	7.878	7.889	(0.905)	210002	50.0000	51.8069

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG07.D
Report Date: 16-Jul-2004 15:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	8.126	8.137	(0.933)	375031	50.0000	50.7264
22 2,4-Dimethylphenol	122	8.219	8.230	(0.944)	140688	50.0000	49.9001
23 2-Nitrophenol	139	8.250	8.250	(0.948)	103402	50.0000	49.3491
24 bis(2-Chloroethoxy)methane	93	8.343	8.355	(0.958)	227597	50.0000	52.0933
25 Benzoic acid	122	8.354	8.396	(0.960)	83439	50.0000	46.8302
26 2,4-Dichlorophenol	162	8.509	8.520	(0.977)	162324	50.0000	50.8014
27 1,2,4-Trichlorobenzene	180	8.633	8.644	(0.992)	177039	50.0000	51.2414
* 28 Naphthalene-d8	136	8.706	8.706	(1.000)	378898	40.0000	
29 Naphthalene	128	8.726	8.738	(1.002)	541852	50.0000	52.5194
30 4-Chloroaniline	127	8.778	8.789	(1.008)	216693	50.0000	51.4695
31 Hexachlorobutadiene	225	8.902	8.903	(1.023)	103828	50.0000	52.4744
32 4-Chloro-3-methylphenol	107	9.316	9.317	(1.070)	165698	50.0000	50.9147
33 2-Methylnaphthalene	142	9.565	9.566	(1.099)	388009	50.0000	53.7894
34 Hexachlorocyclopentadiene	237	9.823	9.824	(0.901)	91866	50.0000	51.8595
35 2,4,6-Trichlorophenol	196	9.927	9.928	(0.911)	126284	50.0000	51.3829
36 2,4,5-Trichlorophenol	196	9.968	9.980	(0.915)	130109	50.0000	51.0210
$ 37 2-Fluorobiphenyl	172	10.010	10.021	(0.918)	403763	50.0000	54.7035
38 2-Chloronaphthalene	162	10.175	10.187	(0.934)	352804	50.0000	53.3445
39 2-Nitroaniline	65	10.331	10.342	(0.948)	119684	50.0000	51.2967
40 Dimethylphthalate	163	10.538	10.549	(0.967)	446052	50.0000	53.0948
41 2,6-Dinitrotoluene	165	10.662	10.673	(0.978)	105379	50.0000	50.7626
42 Acenaphthylene	152	10.724	10.725	(0.984)	574975	50.0000	53.7429
43 3-Nitroaniline	138	10.848	10.859	(0.995)	100901	50.0000	50.1245
* 44 Acenaphthene-d10	164	10.900	10.911	(1.000)	241372	40.0000	
45 Acenaphthene	154	10.952	10.952	(1.005)	380484	50.0000	55.6534
46 2,4-Dinitrophenol	184	10.972	10.984	(1.007)	66995	50.0000	49.1446
47 4-Nitrophenol	109	10.993	11.004	(1.009)	46388	50.0000	51.2031
48 Dibenzofuran	168	11.138	11.149	(1.022)	541913	50.0000	54.8353
49 Diethylphthalate	149	11.397	11.408	(1.046)	426335	50.0000	53.9370
50 4-Chlorophenyl-phenylether	204	11.521	11.532	(1.057)	234913	50.0000	56.2372
51 Fluorene	166	11.573	11.584	(1.062)	450475	50.0000	54.8336
52 2,4-Dinitrotoluene	165	11.148	11.159	(1.023)	143602	50.0000	53.3446
53 4-Nitroaniline	138	11.635	11.656	(1.067)	76104	50.0000	48.7302
54 4,6-Dinitro-2-methylphenol	198	11.676	11.698	(0.915)	89789	50.0000	49.0985
55 N-Nitrosodiphenylamine	169	11.686	11.698	(0.916)	312846	50.0000	54.1368
56 Azobenzene	77	11.728	11.739	(0.919)	442455	50.0000	53.2722
$ 57 2,4,6-Tribromophenol	330	11.904	11.915	(1.092)	70499	50.0000	45.9477
58 4-Bromophenyl-phenylether	248	12.142	12.143	(0.951)	146513	50.0000	53.4947
59 Hexachlorobenzene	284	12.370	12.381	(0.969)	160271	50.0000	53.3291
60 Pentachlorophenol	266	12.577	12.588	(0.985)	103675	50.0000	50.6756
* 61 Phenanthrene-d10	188	12.763	12.764	(1.000)	440810	40.0000	
62 Phenanthrene	178	12.794	12.805	(1.002)	642813	50.0000	53.1570
63 Anthracene	178	12.846	12.857	(1.006)	644719	50.0000	54.6148
64 Carbazole	167	13.022	13.033	(1.020)	413666	50.0000	46.7923
65 Di-n-butylphthalate	149	13.394	13.405	(1.049)	735938	50.0000	54.6840
66 Fluoranthene	202	14.305	14.316	(1.121)	766307	50.0000	53.2517
67 Benzidine	184	14.419	14.420	(0.861)	17073	50.0000	45.9736
68 Pyrene	202	14.626	14.637	(0.873)	778840	50.0000	54.3001
$ 69 Terphenyl-d14	244	14.760	14.761	(0.881)	631775	50.0000	56.2204
70 Butylbenzylphthalate	149	15.485	15.496	(0.925)	342548	50.0000	52.6811
71 bis(2-Ethylhexyl)phthalate	149	16.551	16.562	(0.988)	485515	50.0000	54.3016
72 3,3'-Dichlorobenzidine	252	16.613	16.635	(0.992)	248223	50.0000	47.1584
73 Benzo(a)anthracene	228	16.696	16.716	(0.997)	721269	50.0000	51.1494
* 74 Chrysene-d12	240	16.748	16.759	(1.000)	414359	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG07.D
Report Date: 16-Jul-2004 15:11

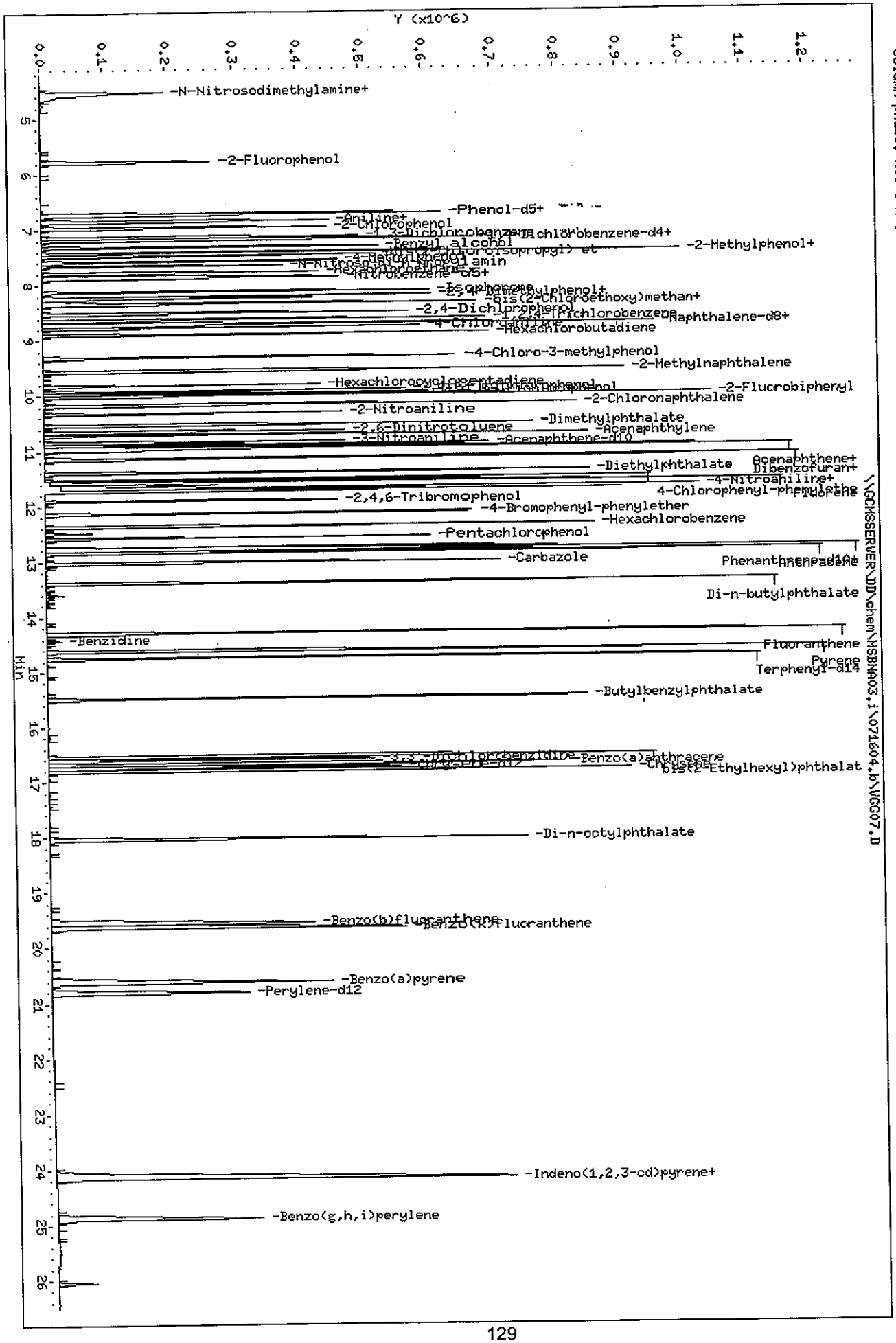
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.810	16.831	(1.004)	661542	50.0000	51.0051
76 Di-n-octylphthalate	149	18.041	18.053	(0.867)	786140	50.0000	48.1995
77 Benzo(b)fluoranthene	252	19.563	19.616	(0.940)	708717	50.0000	45.0219(A)
78 Benzo(k)fluoranthene	252	19.646	19.678	(0.944)	686571	50.0000	55.5894(A)
79 Benzo(a)pyrene	252	20.629	20.661	(0.991)	588549	50.0000	49.0655
* 80 Perylene-d12	264	20.815	20.837	(1.000)	336339	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.148	24.190	(1.160)	669378	50.0000	53.3828
82 Dibenz(a,h)anthracene	278	24.158	24.190	(1.161)	580966	50.0000	54.3367
83 Benzo(g,h,i)perylene	276	24.893	24.915	(1.196)	479248	50.0000	52.6929

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGC07.D
Date : 16-JUL-2004 11:49
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1167
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BWD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG08.D
Report Date: 16-Jul-2004 15:11

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 12:25 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1168
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:11 target Quant Type: ISTD
Cal Date : 16-JUL-2004 12:25 Cal File: VGG08.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	4.535	4.535	(0.632)	137816	80.0000	79.1036
2 Pyridine	79	4.525	4.525	(0.631)	341758	80.0000	79.7589
$ 3 2-Fluorophenol	112	5.777	5.777	(0.805)	296670	80.0000	80.1844
$ 4 Phenol-d5	99	6.729	6.729	(0.938)	398462	80.0000	81.0032
5 Phenol	94	6.750	6.750	(0.941)	418195	80.0000	80.5667
6 Aniline	66	6.853	6.853	(0.955)	163726	80.0000	80.6364
7 bis(2-Chloroethyl)ether	63	6.874	6.874	(0.958)	245471	80.0000	80.6103
8 2-Chlorophenol	128	6.977	6.977	(0.973)	332343	80.0000	81.2788
9 1,3-Dichlorobenzene	146	7.143	7.143	(0.996)	373295	80.0000	81.3031
* 10 1,4-Dichlorobenzene-d4	152	7.174	7.174	(1.000)	119598	40.0000	
11 1,4-Dichlorobenzene	146	7.195	7.195	(1.003)	389265	80.0000	83.3868
12 Benzyl alcohol	108	7.329	7.329	(1.022)	223584	80.0000	83.4284
13 2-Methylphenol	107	7.433	7.433	(1.036)	250356	80.0000	81.0907
14 1,2-Dichlorobenzene	146	7.423	7.423	(1.035)	347448	80.0000	82.4591
15 bis(2-Chloroisopropyl) ether	45	7.474	7.474	(1.042)	410323	80.0000	78.2910
16 4-Methylphenol	107	7.588	7.588	(1.058)	402224	80.0000	81.7757
17 N-Nitroso-di-n-propylamine	70	7.671	7.671	(1.069)	192650	80.0000	82.1672
18 Hexachloroethane	117	7.785	7.785	(1.085)	139178	80.0000	83.0075
$ 19 Nitrobenzene-d5	82	7.857	7.857	(0.903)	375641	80.0000	82.2112
20 Nitrobenzene	77	7.888	7.888	(0.906)	373161	80.0000	83.0833

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG08.D
Report Date: 16-Jul-2004 15:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	8.137	8.137	(0.935)	665145	80.0000	81.1963
22 2,4-Dimethylphenol	122	8.230	8.230	(0.945)	267588	80.0000	85.6573
23 2-Nitrophenol	139	8.251	8.251	(0.948)	197527	80.0000	85.0804
24 bis(2-Chloroethoxy)methane	93	8.354	8.354	(0.960)	406898	80.0000	84.0532
25 Benzoic acid	122	8.395	8.395	(0.964)	178802	80.0000	83.0809(M)
26 2,4-Dichlorophenol	162	8.520	8.520	(0.979)	301772	80.0000	85.2365
27 1,2,4-Trichlorobenzene	180	8.644	8.644	(0.993)	328491	80.0000	85.8082
* 28 Naphthalene-d8	136	8.706	8.706	(1.000)	419826	40.0000	
29 Naphthalene	128	8.737	8.737	(1.004)	957742	80.0000	83.7801
30 4-Chloroaniline	127	8.789	8.789	(1.010)	387278	80.0000	83.0197
31 Hexachlorobutadiene	225	8.903	8.903	(1.023)	193155	80.0000	88.1032
32 4-Chloro-3-methylphenol	107	9.317	9.317	(1.070)	306894	80.0000	85.1074
33 2-Methylnaphthalene	142	9.565	9.565	(1.099)	682806	80.0000	85.4290
34 Hexachlorocyclopentadiene	237	9.824	9.824	(0.900)	177782	80.0000	88.6007
35 2,4,6-Trichlorophenol	196	9.927	9.927	(0.910)	236591	80.0000	84.9855
36 2,4,5-Trichlorophenol	196	9.979	9.979	(0.915)	250723	80.0000	86.7984
$ 37 2-Fluorobiphenyl	172	10.020	10.020	(0.918)	720459	80.0000	86.1735
38 2-Chloronaphthalene	162	10.186	10.186	(0.934)	628368	80.0000	83.8776
39 2-Nitroaniline	65	10.341	10.341	(0.948)	217138	80.0000	82.1608
40 Dimethylphthalate	163	10.548	10.548	(0.967)	809090	80.0000	85.0236
41 2,6-Dinitrotoluene	165	10.672	10.672	(0.978)	199680	80.0000	84.9181
42 Acenaphthylene	152	10.724	10.724	(0.983)	1035387	80.0000	85.4379
43 3-Nitroaniline	138	10.859	10.859	(0.995)	195395	80.0000	85.6927
* 44 Acenaphthene-d10	164	10.911	10.911	(1.000)	273408	40.0000	
45 Acenaphthene	154	10.952	10.952	(1.004)	669868	80.0000	86.5009
46 2,4-Dinitrophenol	184	10.983	10.983	(1.007)	129444	80.0000	80.4730
47 4-Nitrophenol	109	11.004	11.004	(1.009)	81894	80.0000	79.8029
48 Dibenzofuran	168	11.149	11.149	(1.022)	945331	80.0000	84.4482
49 Diethylphthalate	149	11.407	11.407	(1.046)	760013	80.0000	84.8853
50 4-Chlorophenyl-phenylether	204	11.532	11.532	(1.057)	412722	80.0000	87.2268
51 Fluorene	166	11.583	11.583	(1.062)	785721	80.0000	84.4345
52 2,4-Dinitrotoluene	165	11.159	11.159	(1.023)	256447	80.0000	84.1014
53 4-Nitroaniline	138	11.656	11.656	(1.068)	144788	80.0000	81.8464
54 4,6-Dinitro-2-methylphenol	198	11.697	11.697	(0.916)	173173	80.0000	82.4032
55 N-Nitrosodiphenylamine	169	11.697	11.697	(0.916)	564181	80.0000	88.1326
56 Azobenzene	77	11.739	11.739	(0.920)	744641	80.0000	80.9347
$ 57 2,4,6-Tribromophenol	330	11.915	11.915	(1.092)	148759	80.0000	79.6098
58 4-Bromophenyl-phenylether	248	12.142	12.142	(0.951)	269842	80.0000	88.9406
59 Hexachlorobenzene	284	12.380	12.380	(0.970)	309693	80.0000	93.0244
60 Pentachlorophenol	266	12.587	12.587	(0.986)	202659	80.0000	89.4225
* 61 Phenanthrene-d10	188	12.763	12.763	(1.000)	488310	40.0000	
62 Phenanthrene	178	12.805	12.805	(1.003)	1129973	80.0000	84.3528
63 Anthracene	178	12.856	12.856	(1.007)	1102840	80.0000	84.3351
64 Carbazole	167	13.032	13.032	(1.021)	860132	80.0000	87.8306
65 Di-n-butylphthalate	149	13.405	13.405	(1.050)	1237160	80.0000	82.9853
66 Fluoranthene	202	14.316	14.316	(1.122)	1328568	80.0000	83.3433
67 Benzidine	184	14.419	14.419	(0.860)	29012	80.0000	72.9039
68 Pyrene	202	14.637	14.637	(0.873)	1403428	80.0000	91.3098
$ 69 Terphenyl-d14	244	14.761	14.761	(0.881)	1102432	80.0000	91.5499
70 Butylbenzylphthalate	149	15.496	15.496	(0.925)	635142	80.0000	91.1545
71 bis(2-Ethylhexyl)phthalate	149	16.562	16.562	(0.988)	864777	80.0000	90.2585
72 3,3'-Dichlorobenzidine	252	16.634	16.634	(0.993)	483692	80.0000	81.9938
73 Benzo(a)anthracene	228	16.717	16.717	(0.998)	1336196	80.0000	88.4277
* 74 Chrysene-d12	240	16.758	16.758	(1.000)	444020	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG08.D
Report Date: 16-Jul-2004 15:11

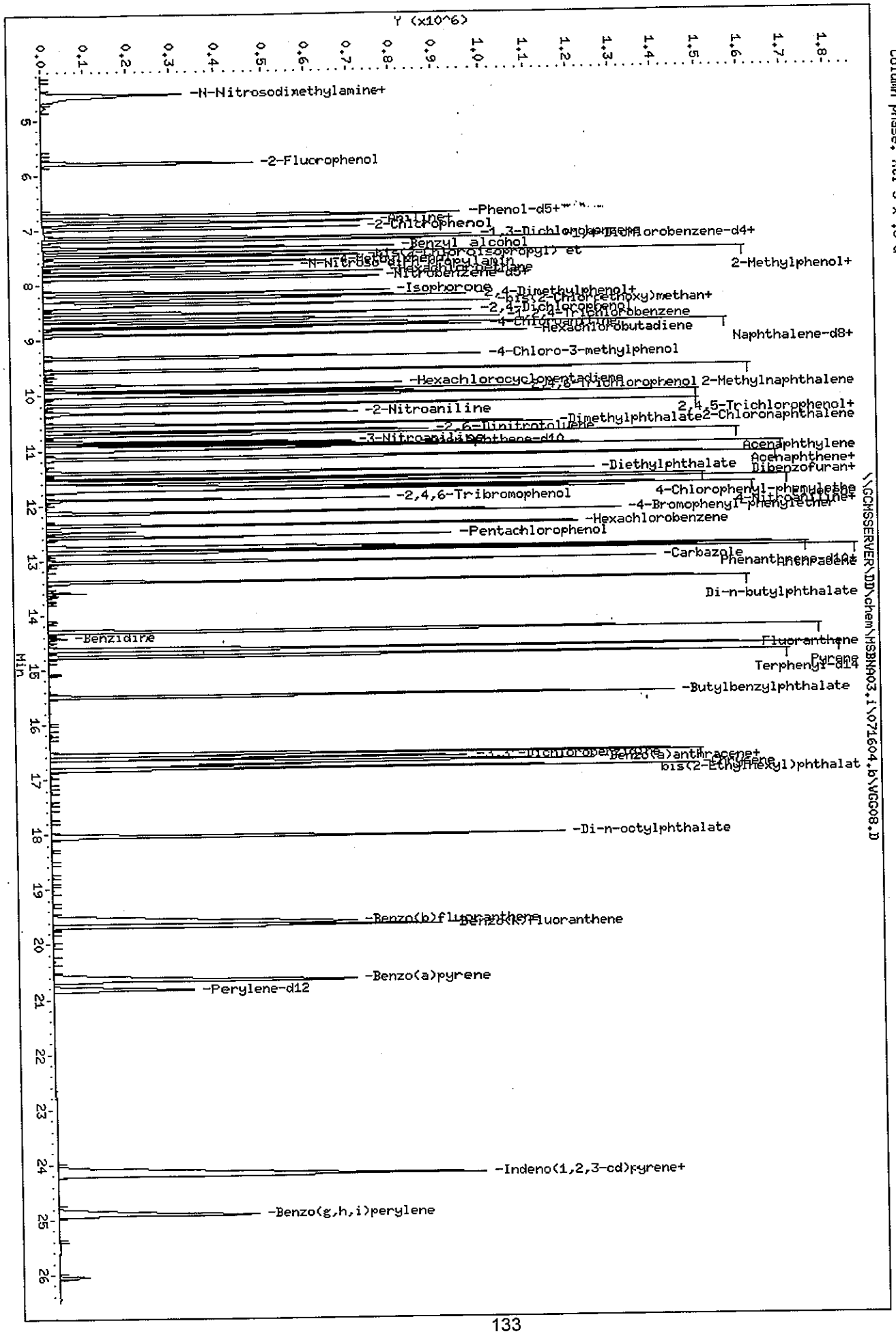
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.831	16.831	(1.004)	1231416	80.0000	88.6003
76 Di-n-octylphthalate	149	18.052	18.052	(0.866)	1423390	80.0000	79.6586
77 Benzo(b)fluoranthene	252	19.615	19.615	(0.941)	1470830	80.0000	80.2384 (A)
78 Benzo(k)fluoranthene	252	19.677	19.677	(0.944)	1113412	80.0000	86.2024 (A)
79 Benzo(a)pyrene	252	20.660	20.660	(0.992)	1067716	80.0000	80.9978
* 80 Perylene-d12	264	20.836	20.836	(1.000)	351739	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.190	24.190	(1.161)	1084065	80.0000	82.6689
82 Dibenz(a,h)anthracene	278	24.190	24.190	(1.161)	964875	80.0000	86.2920
83 Benzo(g,h,i)perylene	276	24.914	24.914	(1.196)	711207	80.0000	74.7729

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGC08.D
Date : 16-JUL-2004 12:25
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1168
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG09.D
Report Date: 16-Jul-2004 15:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 13:00 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1169
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:11 target Quant Type: ISTD
Cal Date : 16-JUL-2004 13:00 Cal File: VGG09.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	4.535	4.535	(0.632)	193790	120.000	119.2952
2 Pyridine	79	4.525	4.525	(0.631)	482297	120.000	120.7174
$ 3 2-Fluorophenol	112	5.777	5.777	(0.805)	420870	120.000	121.9997
$ 4 Phenol-d5	99	6.740	6.729	(0.939)	554853	120.000	120.9729
5 Phenol	94	6.761	6.750	(0.942)	579538	120.000	119.7439
6 Aniline	66	6.854	6.853	(0.955)	222806	120.000	117.6887
7 bis(2-Chloroethyl)ether	63	6.874	6.874	(0.958)	328455	120.000	115.6807
8 2-Chlorophenol	128	6.978	6.977	(0.973)	470281	120.000	123.3511
9 1,3-Dichlorobenzene	146	7.144	7.143	(0.996)	532143	120.000	124.3019
* 10 1,4-Dichlorobenzene-d4	152	7.175	7.174	(1.000)	111514	40.0000	
11 1,4-Dichlorobenzene	146	7.195	7.195	(1.003)	525075	120.000	120.6335
12 Benzyl alcohol	108	7.330	7.329	(1.022)	312762	120.000	125.1646
13 2-Methylphenol	107	7.433	7.433	(1.036)	318628	120.000	110.6857
14 1,2-Dichlorobenzene	146	7.423	7.423	(1.035)	453157	120.000	115.3432
15 bis(2-Chloroisopropyl) ether	45	7.485	7.474	(1.043)	537981	120.000	110.0898
16 4-Methylphenol	107	7.589	7.588	(1.058)	555160	120.000	121.0512
17 N-Nitroso-di-n-propylamine	70	7.682	7.671	(1.071)	262478	120.000	120.0652
18 Hexachloroethane	117	7.785	7.785	(1.085)	188691	120.000	120.6959
$ 19 Nitrobenzene-d5	82	7.868	7.857	(0.904)	514139	120.000	121.8205
20 Nitrobenzene	77	7.889	7.888	(0.906)	492831	120.000	118.7947

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG09.D
Report Date: 16-Jul-2004 15:12

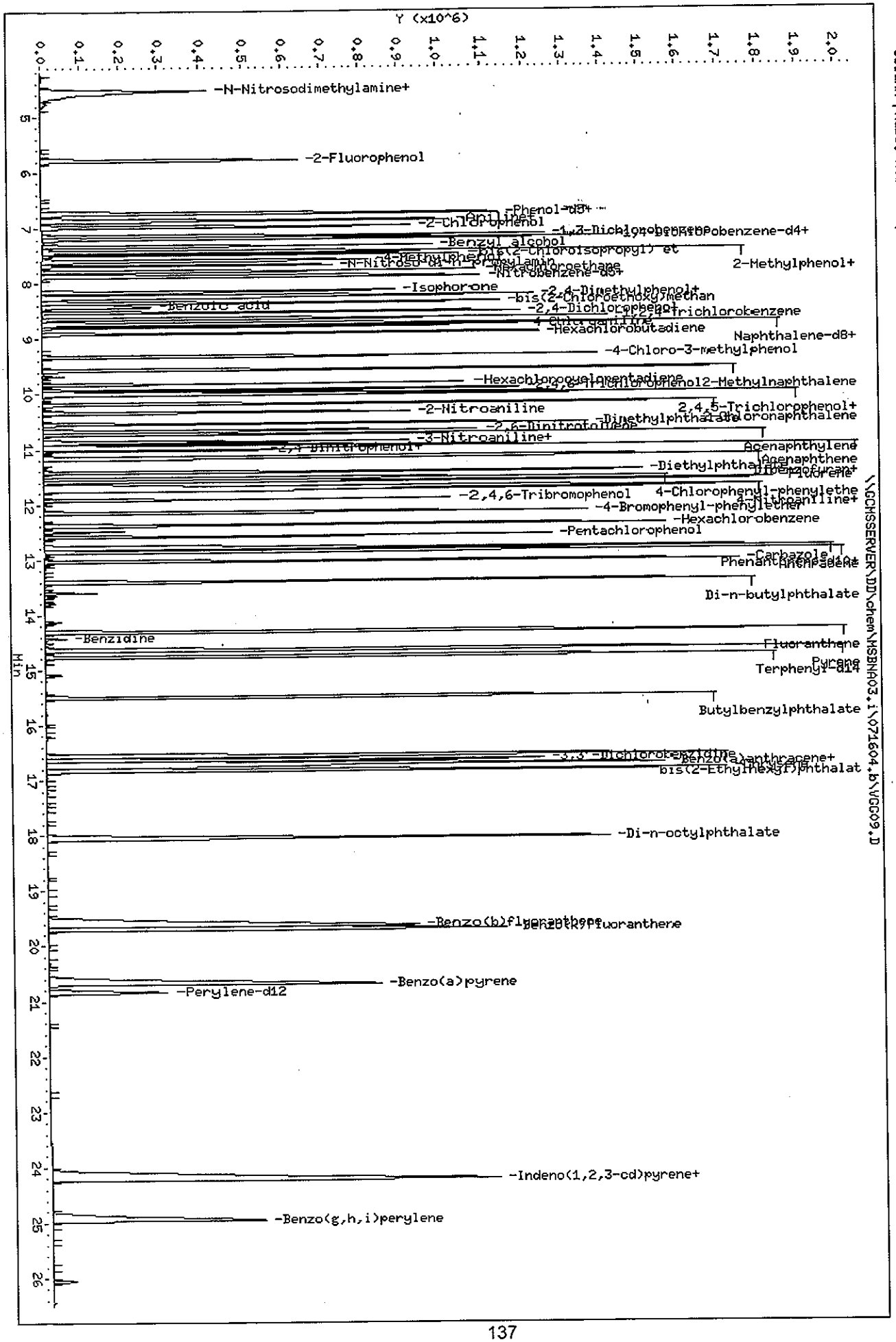
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	8.148	8.137	(0.936)	926499	120.000	122.4466
22 2,4-Dimethylphenol	122	8.241	8.230	(0.947)	370080	120.000	128.2553
23 2-Nitrophenol	139	8.261	8.251	(0.949)	280010	120.000	130.5745
24 bis(2-Chloroethoxy)methane	93	8.355	8.354	(0.960)	549751	120.000	122.9466
25 Benzoic acid	122	8.437	8.395	(0.969)	249898	120.000	118.9213(M)
26 2,4-Dichlorophenol	162	8.530	8.520	(0.980)	411026	120.000	125.6891
27 1,2,4-Trichlorobenzene	180	8.644	8.644	(0.993)	447451	120.000	126.5413
* 28 Naphthalene-d8	136	8.706	8.706	(1.000)	387782	40.0000	
29 Naphthalene	128	8.737	8.737	(1.004)	1268308	120.000	120.1155
30 4-Chloroaniline	127	8.789	8.789	(1.010)	540684	120.000	125.4827
31 Hexachlorobutadiene	225	8.913	8.903	(1.024)	251722	120.000	124.3050
32 4-Chloro-3-methylphenol	107	9.327	9.317	(1.071)	415440	120.000	124.7295
33 2-Methylnaphthalene	142	9.565	9.565	(1.099)	904077	120.000	122.4602
34 Hexachlorocyclopentadiene	237	9.824	9.824	(0.900)	243425	120.000	132.1438
35 2,4,6-Trichlorophenol	196	9.938	9.927	(0.911)	334848	120.000	131.0167
36 2,4,5-Trichlorophenol	196	9.990	9.979	(0.916)	347232	120.000	130.9392
$ 37 2-Fluorobiphenyl	172	10.021	10.020	(0.918)	917999	120.000	119.6021
38 2-Chloronaphthalene	162	10.186	10.186	(0.934)	871197	120.000	126.6720
39 2-Nitroaniline	65	10.342	10.341	(0.948)	298705	120.000	123.1130
40 Dimethylphthalate	163	10.549	10.548	(0.967)	1107791	120.000	126.8039
41 2,6-Dinitrotoluene	165	10.683	10.672	(0.979)	286136	120.000	132.5472
42 Acenaphthylene	152	10.735	10.724	(0.984)	1366318	120.000	122.8095
43 3-Nitroaniline	138	10.870	10.859	(0.996)	277648	120.000	132.6347
* 44 Acenaphthene-d10	164	10.911	10.911	(1.000)	251003	40.0000	
45 Acenaphthene	154	10.963	10.952	(1.005)	870238	120.000	122.4058
46 2,4-Dinitrophenol	184	10.994	10.983	(1.008)	185228	120.000	122.7756
47 4-Nitrophenol	109	11.025	11.004	(1.010)	113643	120.000	120.6262
48 Dibenzofuran	168	11.149	11.149	(1.022)	1237754	120.000	120.4406
49 Diethylphthalate	149	11.418	11.407	(1.046)	1004013	120.000	122.1471
50 4-Chlorophenyl-phenylether	204	11.542	11.532	(1.058)	536738	120.000	123.5625
51 Fluorene	166	11.584	11.583	(1.062)	1049214	120.000	122.8140
52 2,4-Dinitrotoluene	165	11.170	11.159	(1.024)	341892	120.000	122.1313
53 4-Nitroaniline	138	11.687	11.656	(1.071)	221269	120.000	136.2448
54 4,6-Dinitro-2-methylphenol	198	11.708	11.697	(0.917)	229322	120.000	118.8249
55 N-Nitrosodiphenylamine	169	11.708	11.697	(0.917)	755405	120.000	130.5901
56 Azobenzene	77	11.739	11.739	(0.920)	1051636	120.000	126.4926
$ 57 2,4,6-Tribromophenol	330	11.915	11.915	(1.092)	215247	120.000	121.4786
58 4-Bromophenyl-phenylether	248	12.153	12.142	(0.952)	360810	120.000	131.6076
59 Hexachlorobenzene	284	12.381	12.380	(0.970)	392336	120.000	130.4175
60 Pentachlorophenol	266	12.588	12.587	(0.986)	275862	120.000	134.7053
* 61 Phenanthrene-d10	188	12.764	12.763	(1.000)	441249	40.0000	
62 Phenanthrene	178	12.805	12.805	(1.003)	1483829	120.000	122.5822
63 Anthracene	178	12.867	12.856	(1.008)	1370551	120.000	115.9853
64 Carbazole	167	13.043	13.032	(1.022)	1215690	120.000	137.3775
65 Di-n-butylphthalate	149	13.405	13.405	(1.050)	1535100	120.000	113.9525
66 Fluoranthene	202	14.316	14.316	(1.122)	1761786	120.000	122.3072
67 Benzidine	184	14.420	14.419	(0.860)	38329	120.000	107.4628
68 Pyrene	202	14.647	14.637	(0.873)	1789384	120.000	129.8938
$ 69 Terphenyl-d14	244	14.772	14.761	(0.881)	1346701	120.000	124.7772
70 Butylbenzylphthalate	149	15.506	15.496	(0.925)	830506	120.000	132.9866
71 bis(2-Ethylhexyl)phthalate	149	16.573	16.562	(0.988)	1146742	120.000	133.5388
72 3,3'-Dichlorobenzidine	252	16.645	16.634	(0.993)	695498	120.000	128.7653
73 Benzo(a)anthracene	228	16.728	16.717	(0.998)	1844585	120.000	136.1991
* 74 Chrysene-d12	240	16.769	16.758	(1.000)	397965	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG09.D
Report Date: 16-Jul-2004 15:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.842	16.831	(1.004)	1703218	120.000	136.7283
76 Di-n-octylphthalate	149	18.063	18.052	(0.867)	1930189	120.000	121.6329
77 Benzo(b)fluoranthene	252	19.636	19.615	(0.942)	2241325	120.000	123.0725(A)
78 Benzo(k)fluoranthene	252	19.709	19.677	(0.946)	1379449	120.000	123.1456(A)
79 Benzo(a)pyrene	252	20.692	20.660	(0.993)	1454675	120.000	119.9885
* 80 Perylene-d12	264	20.837	20.836	(1.000)	305050	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.211	24.190	(1.162)	1405288	120.000	123.5668
82 Dibenz(a,h)anthracene	278	24.221	24.190	(1.162)	1254965	120.000	129.4139
83 Benzo(g,h,i)perylene	276	24.946	24.914	(1.197)	931993	120.000	112.9824

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.


Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGC09.D
Date : 16-JUL-2004 13:00
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1169
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u
Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25
Y (x10^6)
Min
-N-Nitrosodimethylamine+
-2-Fluorophenol
-Phenol-d5+
Aniline
-2-Chlorophenol
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl alcohol
-bis(2-Chloroisopropyl) et
-2-Methylphenol+
-N-Nitroso-di-n-propylamin
-Hexachloroethane
-Nitrobenzene-d5+
-Isophorone
-2,4-Dimethylphenol+
-bis(2-Chloroethoxy)methan
-Benzoic acid
-2,4-Dichlorophenol
-1,2,4-Trichlorobenzene
-4-Chloroaniline
-Hexachlorobutadiene
Naphthalene-d8+
-4-Chloro-3-methylphenol
-Hexachlorocyclopentadiene
-2,4,6-Trichlorophenol
2-Methylnaphthalene
-2-Nitroaniline
2,4,5-Trichlorophenol+
-Dimethylphthalate
-2,6-Dinitrotoluene
2-Chloronaphthalene
-3-Nitroaniline+
-2,4-Dinitrophenol+
Acenaphthylene
Acenaphthene
-Diethylphthalate
-Dibenzofuran+
Fluorene
-2,4,6-Tribromophenol
4-Chlorophenyl-phenylethe
4-Nitroaniline+
-4-Bromophenyl-phenylether
-Hexachlorobenzene
-Pentachlorophenol
-Carbazole
Phenanthrene-d10+
Phenanthrene
Di-n-butylphthalate
-Benzidine
Fluoranthene
Pyrene
Terphenyl-d14
Butylbenzylphthalate
-3,3'-Dichlorobenzidine
-Benzo(a)anthracene+
Chrysene
bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene
Benzo(k)fluoranthene
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGC09.D

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG10.D
Report Date: 16-Jul-2004 15:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 13:38 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1170
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:12 target Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	4.547	4.535	(0.633)	299380	160.000	158.3638
2 Pyridine	79	4.527	4.525	(0.630)	760942	160.000	163.6622
$ 3 2-Fluorophenol	112	5.789	5.777	(0.806)	665935	160.000	165.8763
$ 4 Phenol-d5	99	6.762	6.729	(0.941)	848661	160.000	158.9960
5 Phenol	94	6.773	6.750	(0.942)	875508	160.000	155.4437
6 Aniline	66	6.866	6.853	(0.955)	337720	160.000	153.2874
7 bis(2-Chloroethyl)ether	63	6.886	6.874	(0.958)	462011	160.000	139.8232
8 2-Chlorophenol	128	6.990	6.977	(0.973)	745984	160.000	168.1345
9 1,3-Dichlorobenzene	146	7.145	7.143	(0.994)	775037	160.000	155.5656
* 10 1,4-Dichlorobenzene-d4	152	7.187	7.174	(1.000)	129774	40.0000	
11 1,4-Dichlorobenzene	146	7.207	7.195	(1.003)	714983	160.000	141.1510
12 Benzyl alcohol	108	7.352	7.329	(1.023)	495329	160.000	170.3347
13 2-Methylphenol	107	7.445	7.433	(1.036)	459081	160.000	137.0372
14 1,2-Dichlorobenzene	146	7.425	7.423	(1.033)	621865	160.000	136.0132
15 bis(2-Chloroisopropyl) ether	45	7.487	7.474	(1.042)	773261	160.000	135.9716
16 4-Methylphenol	107	7.601	7.588	(1.058)	872238	160.000	163.4284
17 N-Nitroso-di-n-propylamine	70	7.694	7.671	(1.071)	416095	160.000	163.5529
18 Hexachloroethane	117	7.787	7.785	(1.084)	261807	160.000	143.9011
$ 19 Nitrobenzene-d5	82	7.880	7.857	(0.904)	772319	160.000	153.0466
20 Nitrobenzene	77	7.901	7.888	(0.906)	727897	160.000	146.7426

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG10.D
Report Date: 16-Jul-2004 15:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.170	8.137	(0.937)	1511725	160.000	167.0944
	22 2,4-Dimethylphenol	122	8.253	8.230	(0.947)	544597	160.000	157.8490
	23 2-Nitrophenol	139	8.273	8.251	(0.949)	402399	160.000	156.9383
	24 bis(2-Chloroethoxy)methane	93	8.377	8.354	(0.961)	808998	160.000	151.3161
	25 Benzoic acid	122	8.491	8.395	(0.974)	426120	160.000	160.0492
	26 2,4-Dichlorophenol	162	8.542	8.520	(0.980)	639677	160.000	163.5973
	27 1,2,4-Trichlorobenzene	180	8.646	8.644	(0.992)	643175	160.000	152.1259
*	28 Naphthalene-d8	136	8.718	8.706	(1.000)	463661	40.0000	
	29 Naphthalene	128	8.749	8.737	(1.004)	1731366	160.000	137.1356
	30 4-Chloroaniline	127	8.801	8.789	(1.009)	834305	160.000	161.9393
	31 Hexachlorobutadiene	225	8.915	8.903	(1.023)	321448	160.000	132.7594
	32 4-Chloro-3-methylphenol	107	9.339	9.317	(1.071)	624502	160.000	156.8129
	33 2-Methylnaphthalene	142	9.577	9.565	(1.099)	1258665	160.000	142.5893
	34 Hexachlorocyclopentadiene	237	9.836	9.824	(0.901)	360533	160.000	154.6310
	35 2,4,6-Trichlorophenol	196	9.950	9.927	(0.912)	521654	160.000	161.2617
	36 2,4,5-Trichlorophenol	196	10.002	9.979	(0.917)	502276	160.000	149.6450
$	37 2-Fluorobiphenyl	172	10.033	10.020	(0.919)	1183217	160.000	121.7954
	38 2-Chloronaphthalene	162	10.198	10.186	(0.935)	1219912	160.000	140.1402
	39 2-Nitroaniline	65	10.364	10.341	(0.950)	458262	160.000	149.2262
	40 Dimethylphthalate	163	10.571	10.548	(0.969)	1618890	160.000	146.4071
	41 2,6-Dinitrotoluene	165	10.695	10.672	(0.980)	449445	160.000	164.4919
	42 Acenaphthylene	152	10.747	10.724	(0.985)	1912563	160.000	135.8207
	43 3-Nitroaniline	138	10.892	10.859	(0.998)	454977	160.000	171.7204
*	44 Acenaphthene-d10	164	10.913	10.911	(1.000)	317694	40.0000	
	45 Acenaphthene	154	10.975	10.952	(1.006)	1138309	160.000	126.5010
	46 2,4-Dinitrophenol	184	11.016	10.983	(1.009)	304308	160.000	157.9466
	47 4-Nitrophenol	109	11.047	11.004	(1.012)	184591	160.000	154.8030
	48 Dibenzofuran	168	11.161	11.149	(1.023)	1682378	160.000	129.3398
	49 Diethylphthalate	149	11.440	11.407	(1.048)	1412048	160.000	135.7261
	50 4-Chlorophenyl-phenylether	204	11.554	11.532	(1.059)	696329	160.000	126.6511
	51 Fluorene	166	11.606	11.583	(1.064)	1418836	160.000	131.2158
	52 2,4-Dinitrotoluene	165	11.202	11.159	(1.027)	517383	160.000	146.0227
	53 4-Nitroaniline	138	11.720	11.656	(1.074)	327529	160.000	159.3379
	54 4,6-Dinitro-2-methylphenol	198	11.741	11.697	(0.918)	235585	160.000	102.2780
	55 N-Nitrosodiphenylamine	169	11.710	11.697	(0.916)	936585	160.000	134.8640
	56 Azobenzene	77	11.761	11.739	(0.920)	1224325	160.000	122.6633
$	57 2,4,6-Tribromophenol	330	11.937	11.915	(1.094)	306667	160.000	135.8700
	58 4-Bromophenyl-phenylether	248	12.155	12.142	(0.951)	491607	160.000	149.3617
	59 Hexachlorobenzene	284	12.393	12.380	(0.969)	521821	160.000	144.4833
	60 Pentachlorophenol	266	12.600	12.587	(0.985)	430698	160.000	175.1799
*	61 Phenanthrene-d10	188	12.786	12.763	(1.000)	529743	40.0000	
	62 Phenanthrene	178	12.817	12.805	(1.002)	2033473	160.000	139.9267
	63 Anthracene	178	12.879	12.856	(1.007)	1891933	160.000	133.3620
	64 Carbazole	167	13.055	13.032	(1.021)	1939345	160.000	182.5435
	65 Di-n-butylphthalate	149	13.407	13.405	(1.049)	1962881	160.000	121.3667
	66 Fluoranthene	202	14.328	14.316	(1.121)	2336968	160.000	135.1357
	67 Benzidine	184	14.432	14.419	(0.860)	55365	160.000	125.0564
	68 Pyrene	202	14.659	14.637	(0.874)	2562615	160.000	149.8677
$	69 Terphenyl-d14	244	14.773	14.761	(0.880)	1843637	160.000	137.6193
	70 Butylbenzylphthalate	149	15.518	15.496	(0.925)	1212935	160.000	156.4742
	71 bis(2-Ethylhexyl)phthalate	149	16.595	16.562	(0.989)	1556930	160.000	146.0665
	72 3,3'-Dichlorobenzidine	252	16.688	16.634	(0.994)	1028434	160.000	152.5187
	73 Benzo(a)anthracene	228	16.750	16.717	(0.998)	2874974	160.000	171.0210
*	74 Chrysene-d12	240	16.781	16.758	(1.000)	493975	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG10.D
Report Date: 16-Jul-2004 15:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.874	16.831	(1.006)	2553559	160.000	165.1483
76 Di-n-octylphthalate	149	18.075	18.052	(0.866)	2819715	160.000	159.4167
77 Benzo(b)fluoranthene	252	19.689	19.615	(0.943)	3846910	160.000	158.8712(A)
78 Benzo(k)fluoranthene	252	19.762	19.677	(0.947)	1907080	160.000	154.3537(AMH)
79 Benzo(a)pyrene	252	20.735	20.660	(0.994)	2290072	160.000	159.8763
* 80 Perylene-d12	264	20.869	20.836	(1.000)	336462	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.264	24.190	(1.163)	2204352	160.000	175.7326
82 Dibenz(a,h)anthracene	278	24.264	24.190	(1.163)	1944899	160.000	181.8366
83 Benzo(g,h,i)perylene	276	24.989	24.914	(1.197)	1417235	160.000	155.7668

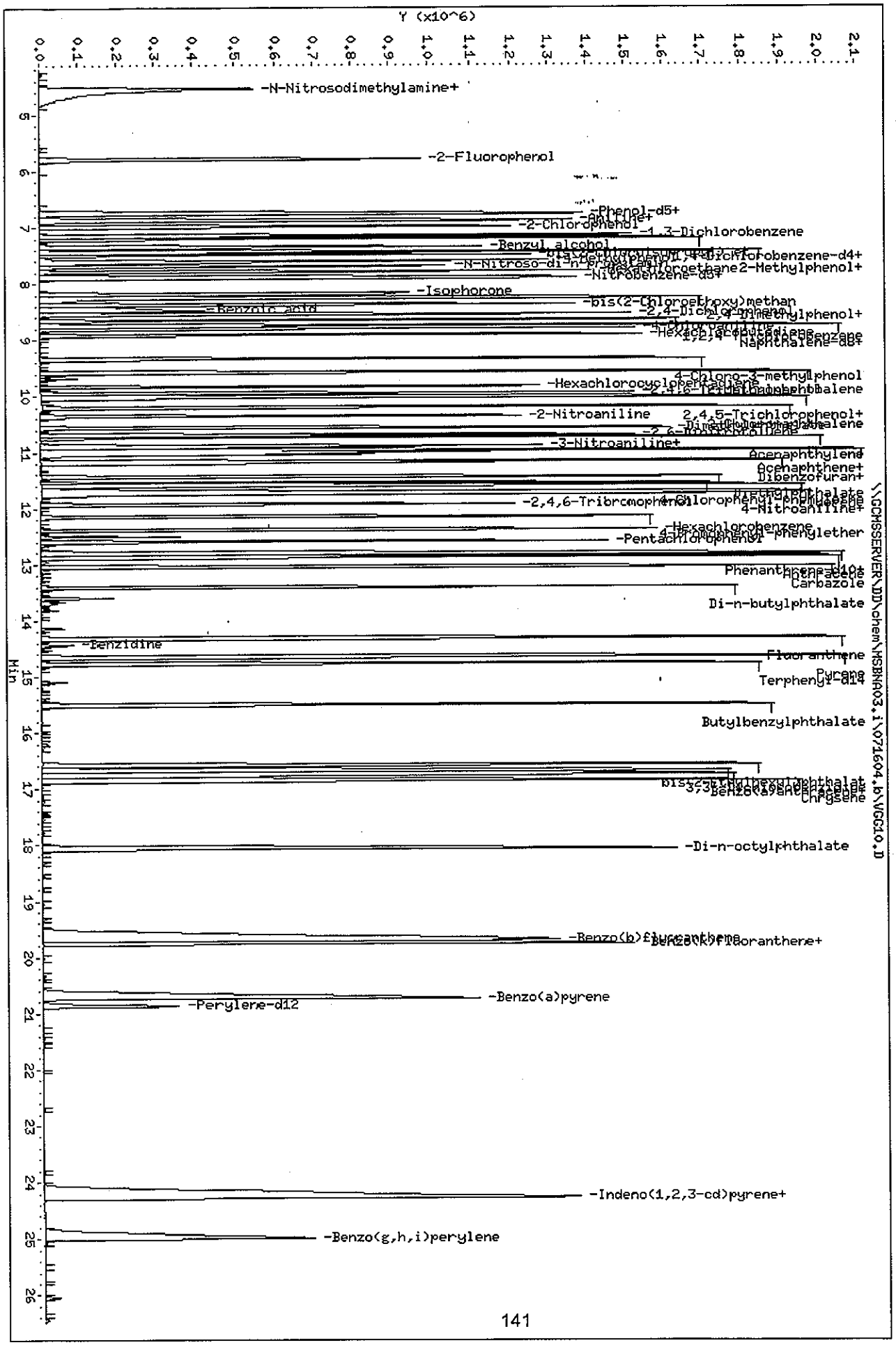
7/16/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGC10.D
Date : 16-JUL-2004 13:38
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1170
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524285642011
Calnum : 524285642001
Standards: 04WS1163

Run Name : 80ug/mL
Filename : vgg11
Caldate : 16-JUL-2004

Injected : 16-JUL-2004 14:14
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	72.76810	ng	-9	30	
Pyridine	80.00000	79.98490	ng	0	30	
Phenol	80.00000	73.86060	ng	-8	20	
Aniline	80.00000	69.72910	ng	-13	30	
bis(2-Chloroethyl)ether	80.00000	74.33190	ng	-7	30	
2-Chlorophenol	80.00000	75.36490	ng	-6	30	
1,3-Dichlorobenzene	80.00000	72.81370	ng	-9	30	
1,4-Dichlorobenzene	80.00000	72.57310	ng	-9	20	
Benzyl alcohol	80.00000	78.49880	ng	-2	30	
1,2-Dichlorobenzene	80.00000	70.46330	ng	-12	30	
2-Methylphenol	80.00000	67.89330	ng	-15	30	
bis(2-Chloroisopropyl) ether	80.00000	67.83710	ng	-15	30	
4-Methylphenol	80.00000	71.04730	ng	-11	30	
N-Nitroso-di-n-propylamine	80.00000	76.55830	ng	-4	30	
Hexachloroethane	80.00000	75.21190	ng	-6	30	
Nitrobenzene	80.00000	72.60250	ng	-9	30	
Isophorone	80.00000	73.55990	ng	-8	30	
2-Nitrophenol	80.00000	76.84300	ng	-4	20	
2,4-Dimethylphenol	80.00000	85.50370	ng	7	30	
bis(2-Chloroethoxy)methane	80.00000	71.54910	ng	-11	30	
Benzoic acid	80.00000	101.1511	ng	26	40	m
2,4-Dichlorophenol	80.00000	74.10350	ng	-7	20	
1,2,4-Trichlorobenzene	80.00000	75.32480	ng	-6	30	
Naphthalene	80.00000	73.93110	ng	-8	30	
4-Chloroaniline	80.00000	70.55260	ng	-12	30	
Hexachlorobutadiene	80.00000	72.21140	ng	-10	20	
4-Chloro-3-methylphenol	80.00000	78.19790	ng	-2	20	
2-Methylnaphthalene	80.00000	74.65260	ng	-7	30	
Hexachlorocyclopentadiene	80.00000	78.36880	ng	-2	40	
2,4,6-Trichlorophenol	80.00000	75.95100	ng	-5	20	
2,4,5-Trichlorophenol	80.00000	79.61460	ng	0	30	
2-Chloronaphthalene	80.00000	73.83470	ng	-8	30	
2-Nitroaniline	80.00000	71.78120	ng	-10	30	
Dimethylphthalate	80.00000	73.45750	ng	-8	30	
2,6-Dinitrotoluene	80.00000	73.72970	ng	-8	30	
Acenaphthylene	80.00000	74.42640	ng	-7	30	
3-Nitroaniline	80.00000	72.68850	ng	-9	30	
Acenaphthene	80.00000	74.09960	ng	-7	20	
2,4-Dinitrophenol	80.00000	72.95090	ng	-9	40	
4-Nitrophenol	80.00000	76.86750	ng	-4	40	
Dibenzofuran	80.00000	73.08390	ng	-9	30	
2,4-Dinitrotoluene	80.00000	72.01650	ng	-10	30	
Diethylphthalate	80.00000	74.55630	ng	-7	30	
Fluorene	80.00000	73.14900	ng	-9	30	
4-Chlorophenyl-phenylether	80.00000	74.08960	ng	-7	40	
4-Nitroaniline	80.00000	52.47520	ng	-34	30	v- ***
4,6-Dinitro-2-methylphenol	80.00000	76.24000	ng	-5	30	

!=warning -=low bias m=manual integration v=ICV

7/16/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524285642011
Calnum : 524285642001
Standards: 04WS1163

Run Name : 80ug/mL
Filename : vgg11
Caldate : 16-JUL-2004

Injected : 16-JUL-2004 14:14
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	76.63900	ng	-4	20	
Azobenzene	80.00000	71.38160	ng	-11	30	
4-Bromophenyl-phenylether	80.00000	74.61160	ng	-7	30	
Hexachlorobenzene	80.00000	78.37140	ng	-2	30	
Pentachlorophenol	80.00000	82.97910	ng	4	20	
Phenanthrene	80.00000	73.58120	ng	-8	30	
Anthracene	80.00000	70.52770	ng	-12	30	
Carbazole	80.00000	54.49270	ng	-32	30	v- ***
Di-n-butylphthalate	80.00000	71.74140	ng	-10	30	
Fluoranthene	80.00000	72.76160	ng	-9	20	
Benzidine	80.00000	19.77740	ng	-75	40	v- *** NT
Pyrene	80.00000	73.10420	ng	-9	30	
Butylbenzylphthalate	80.00000	76.40350	ng	-4	30	
3,3'-Dichlorobenzidine	80.00000	62.88070	ng	-21	40	
Benzo(a)anthracene	80.00000	74.17050	ng	-7	30	
bis(2-Ethylhexyl)phthalate	80.00000	77.08630	ng	-4	30	
Chrysene	80.00000	73.64370	ng	-8	30	
Di-n-octylphthalate	80.00000	72.14520	ng	-10	20	
Benzo(b)fluoranthene	80.00000	77.64230	ng	-3	30	
Benzo(k)fluoranthene	80.00000	69.29250	ng	-13	30	
Benzo(a)pyrene	80.00000	74.14390	ng	-7	20	
Indeno(1,2,3-cd)pyrene	80.00000	69.84670	ng	-13	30	
Dibenz(a,h)anthracene	80.00000	76.80770	ng	-4	30	
Benzo(g,h,i)perylene	80.00000	61.03390	ng	-24	30	!v-
2-Fluorophenol	80.00000	73.08840	ng	-9	30	
Phenol-d5	80.00000	71.46760	ng	-11	30	
Nitrobenzene-d5	80.00000	72.65610	ng	-9	30	
2-Fluorobiphenyl	80.00000	75.98860	ng	-5	30	
2,4,6-Tribromophenol	80.00000	69.20070	ng	-13	30	
Terphenyl-d14	80.00000	72.44910	ng	-9	30	

ISTD (CCV=vgg03)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	127283	139971	9.97	7.18	7.18	0.00
Naphthalene-d8	467959	493131	5.38	8.71	8.71	0.00
Acenaphthene-d10	310622	326665	5.16	10.92	10.91	-0.01
Phenanthrene-d10	560710	588490	4.95	12.77	12.77	0.00
Chrysene-d12	517019	536690	3.80	16.76	16.76	0.00
Perylene-d12	400524	398018	-0.63	20.85	20.84	-0.01

7/16/04

/mcs 7/19/04

!=warning -=low bias m=manual integration v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG11.D
Report Date: 16-Jul-2004 15:19

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 16-JUL-2004 14:14 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICV,04WS1163
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\6PTBNA3.m
Meth Date : 16-Jul-2004 15:12 target Quant Type: ISTD
Cal Date : 16-JUL-2004 13:38 Cal File: VGG10.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	42	4.526	4.535	(0.631)	148374	72.7681	72.7680
	2 Pyridine	79	4.536	4.525	(0.632)	401108	79.9849	79.9849
$	3 2-Fluorophenol	112	5.789	5.777	(0.807)	316480	73.0884	73.0883
$	4 Phenol-d5	99	6.741	6.729	(0.939)	411441	71.4676	71.4676
	5 Phenol	94	6.751	6.750	(0.941)	448694	73.8606	73.8606
	6 Aniline	66	6.845	6.853	(0.954)	165697	69.7291	69.7291
	7 bis(2-Chloroethyl)ether	63	6.876	6.874	(0.958)	264910	74.3319	74.3318
	8 2-Chlorophenol	128	6.979	6.977	(0.973)	360655	75.3649	75.3648
	9 1,3-Dichlorobenzene	146	7.145	7.143	(0.996)	391266	72.8137	72.8136
*	10 1,4-Dichlorobenzene-d4	152	7.176	7.174	(1.000)	139971	40.0000	
	11 1,4-Dichlorobenzene	146	7.196	7.195	(1.003)	396495	72.5731	72.5731
	12 Benzyl alcohol	108	7.331	7.329	(1.022)	246209	78.4988	78.4988
	13 2-Methylphenol	107	7.435	7.433	(1.036)	245317	67.8933	67.8932
	14 1,2-Dichlorobenzene	146	7.424	7.423	(1.035)	347479	70.4633	70.4633
	15 bis(2-Chloroisopropyl) ether	45	7.476	7.474	(1.042)	416098	67.8371	67.8371
	16 4-Methylphenol	107	7.590	7.588	(1.058)	408983	71.0473	71.0472
	17 N-Nitroso-di-n-propylamine	70	7.673	7.671	(1.069)	210076	76.5583	76.5582
	18 Hexachloroethane	117	7.776	7.785	(1.084)	147589	75.2119	75.2119
$	19 Nitrobenzene-d5	82	7.859	7.857	(0.903)	389948	72.6561	72.6561(R)
	20 Nitrobenzene	77	7.880	7.888	(0.905)	383025	72.6025	72.6025

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG11.D
Report Date: 16-Jul-2004 15:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
21 Isophorone	82	8.149	8.137	(0.936)	707805	73.5599	73.5598
22 2,4-Dimethylphenol	122	8.231	8.230	(0.945)	313747	85.5037	85.5036
23 2-Nitrophenol	139	8.252	8.251	(0.948)	209553	76.8430	76.8430
24 bis(2-Chloroethoxy)methane	93	8.356	8.354	(0.960)	406844	71.5491	71.5490
25 Benzoic acid	122	8.428	8.395	(0.968)	263320	101.151	101.1510(M)
26 2,4-Dichlorophenol	162	8.521	8.520	(0.979)	308166	74.1035	74.1034
27 1,2,4-Trichlorobenzene	180	8.635	8.644	(0.992)	338708	75.3248	75.3247
* 28 Naphthalene-d8	136	8.708	8.706	(1.000)	493131	40.0000	
29 Naphthalene	128	8.739	8.737	(1.004)	992722	73.9311	73.9311
30 4-Chloroaniline	127	8.790	8.789	(1.010)	386587	70.5526	70.5525
31 Hexachlorobutadiene	225	8.904	8.903	(1.023)	185957	72.2114	72.2113
32 4-Chloro-3-methylphenol	107	9.318	9.317	(1.070)	331214	78.1979	78.1978
33 2-Methylnaphthalene	142	9.567	9.565	(1.099)	700858	74.6526	74.6526
34 Hexachlorocyclopentadiene	237	9.825	9.824	(0.900)	187882	78.3688	78.3687
35 2,4,6-Trichlorophenol	196	9.929	9.927	(0.910)	252626	75.9510	75.9509
36 2,4,5-Trichlorophenol	196	9.981	9.979	(0.915)	274768	79.6146	79.6145
$ 37 2-Fluorobiphenyl	172	10.022	10.020	(0.918)	759058	75.9886	75.9885(R)
38 2-Chloronaphthalene	162	10.188	10.186	(0.934)	660876	73.8347	73.8347
39 2-Nitroaniline	65	10.333	10.341	(0.947)	226659	71.7812	71.7812
40 Dimethylphthalate	163	10.550	10.548	(0.967)	835189	73.4575	73.4574
41 2,6-Dinitrotoluene	165	10.674	10.672	(0.978)	207142	73.7297	73.7297
42 Acenaphthylene	152	10.726	10.724	(0.983)	1077631	74.4264	74.4263
43 3-Nitroaniline	138	10.860	10.859	(0.995)	198028	72.6885	72.6884
* 44 Acenaphthene-d10	164	10.912	10.911	(1.000)	326665	40.0000	
45 Acenaphthene	154	10.954	10.952	(1.004)	685608	74.0996	74.0996
46 2,4-Dinitrophenol	184	10.985	10.983	(1.007)	139294	72.9509	72.9508
47 4-Nitrophenol	109	11.016	11.004	(1.009)	94247	76.8675	76.8675
48 Dibenzofuran	168	11.150	11.149	(1.022)	977477	73.0839	73.0838
49 Diethylphthalate	149	11.419	11.407	(1.046)	797561	74.5563	74.5563
50 4-Chlorophenyl-phenylether	204	11.533	11.532	(1.057)	418848	74.0896	74.0896
51 Fluorene	166	11.585	11.583	(1.062)	813295	73.1490	73.1490
52 2,4-Dinitrotoluene	165	11.171	11.159	(1.024)	262372	72.0165	72.0165
53 4-Nitroaniline	138	11.657	11.656	(1.068)	110912	52.4752	52.4752
54 4,6-Dinitro-2-methylphenol	198	11.699	11.697	(0.916)	192262	76.2400	76.2400
55 N-Nitrosodiphenylamine	169	11.699	11.697	(0.916)	591255	76.6390	76.6390
56 Azobenzene	77	11.740	11.739	(0.920)	791484	71.3816	71.3816
$ 57 2,4,6-Tribromophenol	330	11.916	11.915	(1.092)	152279	69.2007	69.2007
58 4-Bromophenyl-phenylether	248	12.144	12.142	(0.951)	272809	74.6116	74.6115
59 Hexachlorobenzene	284	12.372	12.380	(0.969)	314438	78.3714	78.3713
60 Pentachlorophenol	266	12.579	12.587	(0.985)	226637	82.9791	82.9790
* 61 Phenanthrene-d10	188	12.765	12.763	(1.000)	588490	40.0000	
62 Phenanthrene	178	12.806	12.805	(1.003)	1187896	73.5812	73.5812
63 Anthracene	178	12.858	12.856	(1.007)	1111493	70.5277	70.5276
64 Carbazole	167	13.034	13.032	(1.021)	643133	54.4927	54.4926
65 Di-n-butylphthalate	149	13.407	13.405	(1.050)	1288955	71.7414	71.7413
66 Fluoranthene	202	14.317	14.316	(1.122)	1397844	72.7616	72.7616
67 Benzidine	184	14.421	14.419	(0.860)	9513	19.7774	19.7774
68 Pyrene	202	14.638	14.637	(0.873)	1358113	73.1042	73.1041
$ 69 Terphenyl-d14	244	14.762	14.761	(0.881)	1054502	72.4491	72.4490(R)
70 Butylbenzylphthalate	149	15.497	15.496	(0.925)	643467	76.4035	76.4034
71 bis(2-Ethylhexyl)phthalate	149	16.563	16.562	(0.988)	892717	77.0863	77.0862
72 3,3'-Dichlorobenzidine	252	16.636	16.634	(0.993)	440267	62.8807	62.8807
73 Benzo(a)anthracene	228	16.719	16.717	(0.998)	1354672	74.1705	74.1705
* 74 Chrysene-d12	240	16.760	16.758	(1.000)	536690	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGG11.D
Report Date: 16-Jul-2004 15:19

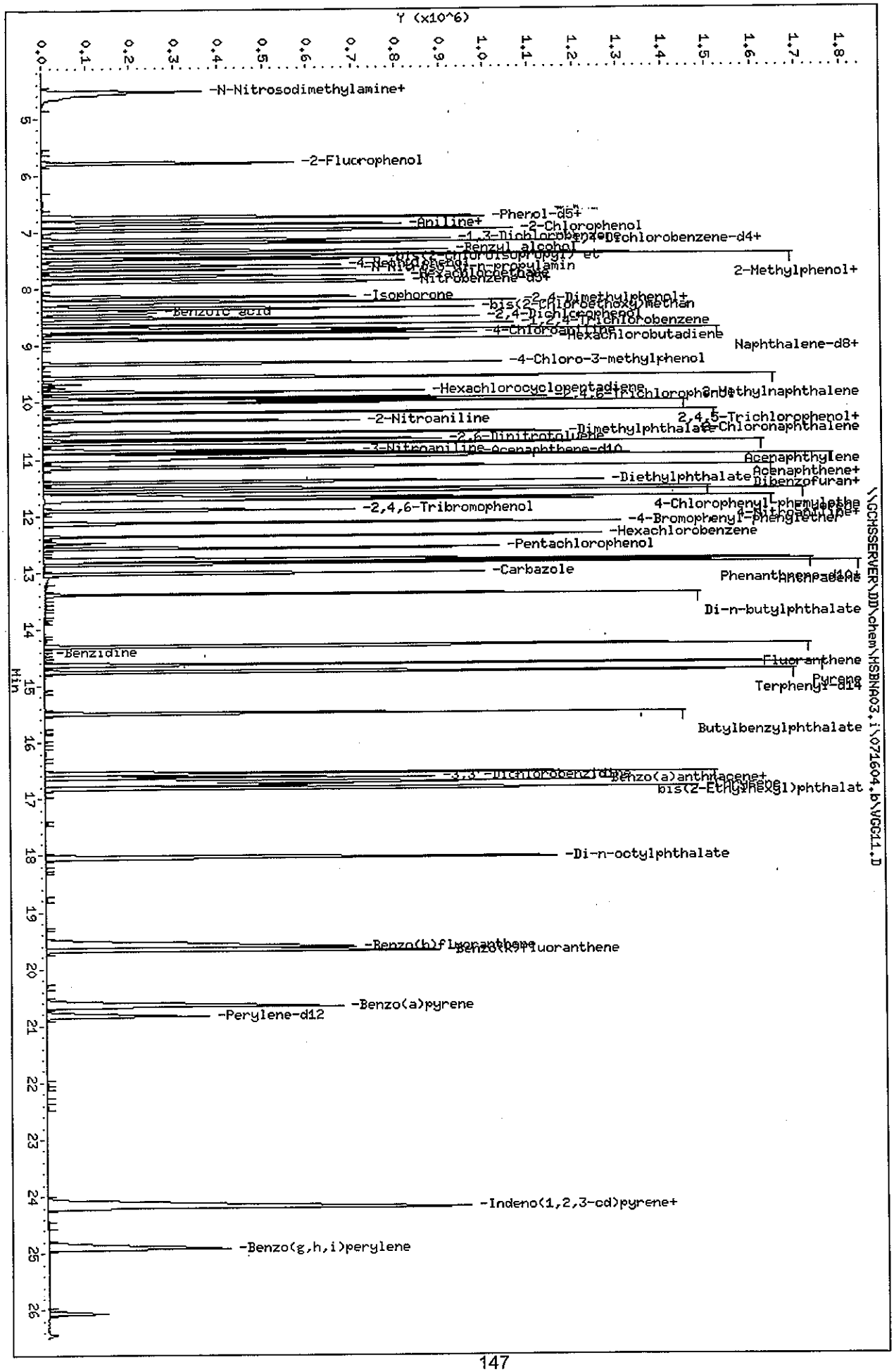
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	16.832	16.831	(1.004)	1237160	73.6437	73.6436
76 Di-n-octylphthalate	149	18.054	18.052	(0.866)	1448176	72.1452	72.1452
77 Benzo(b)fluoranthene	252	19.617	19.615	(0.941)	1598622	77.6423	77.6423(A)
78 Benzo(k)fluoranthene	252	19.689	19.677	(0.945)	1012755	69.2925	69.2924(A)
79 Benzo(a)pyrene	252	20.672	20.660	(0.992)	1094821	74.1439	74.1438
* 80 Perylene-d12	264	20.838	20.836	(1.000)	398018	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.191	24.190	(1.161)	1036433	69.8467	69.8467
82 Dibenz(a,h)anthracene	278	24.191	24.190	(1.161)	971823	76.8077	76.8077
83 Benzo(g,h,i)perylene	276	24.916	24.914	(1.196)	656908	61.0339	61.0338

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\071604.b\VGC11.D
Date : 16-JUL-2004 14:14
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,04WS1163
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524322155005
Calnum : 524285642001
Standards: 04WS1380

Run Name :
Filename : vha05
Caldate : 16-JUL-2004

IDF : 1.0
Injected : 10-AUG-2004 22:32
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5827	0.6178	80.00000	84.81950	ng	6	30	0.0500	
Pyridine	1.4331	1.4258	80.00000	79.59260	ng	-1	30	0.0500	
Phenol	1.7360	1.7363	80.00000	80.01030	ng	0	20	0.0500	
Aniline	0.6791	0.7820	80.00000	92.11980	ng	15	30	0.0500	
bis(2-Chloroethyl)ether	1.0185	1.0114	80.00000	79.44790	ng	-1	30	0.0500	
2-Chlorophenol	1.3676	1.4087	80.00000	82.40380	ng	3	30	0.0500	
1,3-Dichlorobenzene	1.5356	1.5528	80.00000	80.89240	ng	1	30	0.0500	
1,4-Dichlorobenzene	1.5613	1.5906	80.00000	81.50150	ng	2	20	0.0500	
Benzyl alcohol	0.8963	0.9467	80.00000	84.50060	ng	6	30	0.0500	
1,2-Dichlorobenzene	1.4092	1.5250	80.00000	86.57290	ng	8	30	0.0500	
2-Methylphenol	1.0326	1.1701	80.00000	90.65610	ng	13	30	0.0500	
bis(2-Chloroisopropyl) ether	1.7529	1.7726	80.00000	80.89810	ng	1	30	0.0500	
4-Methylphenol	1.6451	1.7816	80.00000	86.63870	ng	8	30	0.0500	
N-Nitroso-di-n-propylamine	0.7842	0.8846	80.00000	90.24420	ng	13	30	0.0500	
Hexachloroethane	0.5608	0.5926	80.00000	84.54530	ng	6	30	0.0500	
Nitrobenzene	0.4279	0.4194	80.00000	78.40360	ng	-2	30	0.0500	
Isophorone	0.7805	0.7593	80.00000	77.82880	ng	-3	30	0.0500	
2-Nitrophenol	0.2212	0.2253	80.00000	81.48500	ng	2	20	0.0500	
2,4-Dimethylphenol	0.2976	0.3035	80.00000	81.57610	ng	2	30	0.0500	
bis(2-Chloroethoxy)methane	0.4612	0.4673	80.00000	81.04700	ng	1	30	0.0500	
Benzoic acid	0.1842	0.1397	80.00000	57.51530	ng	-28	40	0.0500	
2,4-Dichlorophenol	0.3373	0.3314	80.00000	78.59830	ng	-2	20	0.0500	
1,2,4-Trichlorobenzene	0.3647	0.3745	80.00000	82.13170	ng	3	30	0.0500	
Naphthalene	1.0892	1.0862	80.00000	79.77790	ng	0	30	0.0500	
4-Chloroaniline	0.4445	0.4714	80.00000	84.84160	ng	6	30	0.0500	
Hexachlorobutadiene	0.2089	0.2085	80.00000	79.85790	ng	0	20	0.0500	
4-Chloro-3-methylphenol	0.3436	0.3306	80.00000	76.97150	ng	-4	20	0.0500	
2-Methylnaphthalene	0.7615	0.7538	80.00000	79.18680	ng	-1	30	0.0500	
Hexachlorocyclopentadiene	0.2936	0.2979	80.00000	81.18750	ng	1	40	0.0500	
2,4,6-Trichlorophenol	0.4073	0.4210	80.00000	82.69580	ng	3	20	0.0500	
2,4,5-Trichlorophenol	0.4226	0.4255	80.00000	80.54880	ng	1	30	0.0500	
2-Chloronaphthalene	1.0960	1.1906	80.00000	86.90290	ng	9	30	0.0500	
2-Nitroaniline	0.3867	0.3900	80.00000	80.69080	ng	1	30	0.0500	
Dimethylphthalate	1.3922	1.4020	80.00000	80.56170	ng	1	30	0.0500	
2,6-Dinitrotoluene	0.3440	0.3593	80.00000	83.54390	ng	4	30	0.0500	
Acenaphthylene	1.7730	1.8442	80.00000	83.21210	ng	4	30	0.0500	
3-Nitroaniline	0.3336	0.3725	80.00000	89.31810	ng	12	30	0.0500	
Acenaphthene	1.1330	1.0805	80.00000	76.29620	ng	-5	20	0.0500	
2,4-Dinitrophenol	0.2118	0.1921	80.00000	66.20350	ng	-17	40	0.0500	
4-Nitrophenol	0.1501	0.1296	80.00000	69.04190	ng	-14	40	0.0500	
Dibenzofuran	1.6377	1.7160	80.00000	83.82220	ng	5	30	0.0500	
2,4-Dinitrotoluene	0.4461	0.4418	80.00000	79.22130	ng	-1	30	0.0500	
Diethylphthalate	1.3099	1.3290	80.00000	81.16710	ng	1	30	0.0500	
Fluorene	1.3614	1.3758	80.00000	80.84420	ng	1	30	0.0500	
4-Chlorophenyl-phenylether	0.6922	0.6954	80.00000	80.36210	ng	0	40	0.0500	
4-Nitroaniline	0.2588	0.3185	80.00000	98.43670	ng	23	30	0.0500	!c+

!=warning +=high bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MSBNA03
eqnum : 524322155005
alnum : 524285642001
tandards: 04WS1380

Run Name :
Filename : vha05
Caldate : 16-JUL-2004

IDF : 1.0
Injected : 10-AUG-2004 22:32
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1540	0.1637	80.00000	76.39660	ng	-5	30	0.0500	
N-Nitrosodiphenylamine	0.5244	0.5352	80.00000	81.65070	ng	2	20	0.0500	
Azobenzene	0.7537	0.8405	80.00000	89.21820	ng	12	30	0.0500	
4-Bromophenyl-phenylether	0.2485	0.2697	80.00000	86.83140	ng	9	30	0.0500	
Hexachlorobenzene	0.2727	0.2869	80.00000	84.15510	ng	5	30	0.0500	
Pentachlorophenol	0.1856	0.1591	80.00000	68.55220	ng	-14	20	0.0500	
Phenanthrene	1.0973	1.1475	80.00000	83.65920	ng	5	30	0.0500	
Anthracene	1.0712	1.1121	80.00000	83.05450	ng	4	30	0.0500	
Carbazole	0.8022	0.9459	80.00000	94.32770	ng	18	30	0.0500	
Di-n-butylphthalate	1.2212	1.2224	80.00000	80.07880	ng	0	30	0.0500	
Fluoranthene	1.3058	1.3046	80.00000	79.92770	ng	0	20	0.0500	
Benzidine	0.0358	0.0960	80.00000	214.2951	ng	168	40	0.0500	c+ irf
Pyrene	1.3846	1.3739	80.00000	79.38240	ng	-1	30	0.0500	
Butylbenzylphthalate	0.6277	0.6360	80.00000	81.06060	ng	1	30	0.0500	
3,3'-Dichlorobenzidine	0.4816	0.4385	80.00000	66.90790	ng	-16	40	0.0500	
Benzo(a)anthracene	1.3613	1.3985	80.00000	82.18710	ng	3	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.8631	0.7326	80.00000	67.89920	ng	-15	30	0.0500	
Chrysene	1.2521	1.2741	80.00000	81.41020	ng	2	30	0.0500	
Di-n-octylphthalate	1.8422	1.8126	80.00000	71.90100	ng	-10	20	0.0500	
Benzo(b)fluoranthene	1.9008	2.2043	80.00000	83.74860	ng	5	30	0.0500	
Benzo(k)fluoranthene	1.4688	1.3933	80.00000	75.88460	ng	-5	30	0.0500	
Benzo(a)pyrene	1.3822	1.5057	80.00000	80.42040	ng	1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4913	1.6430	80.00000	88.13900	ng	10	30	0.0500	
Dibenz(a,h)anthracene	1.2716	1.4100	80.00000	88.70840	ng	11	30	0.0500	
Benzo(g,h,i)perylene	1.0817	1.2001	80.00000	88.76310	ng	11	30	0.0500	
2-Fluorophenol	1.2374	1.2223	80.00000	79.02150	ng	-1	30	0.0500	
Phenol-d5	1.6452	1.6198	80.00000	78.76380	ng	-2	30	0.0500	
Nitrobenzene-d5	0.4353	0.4336	80.00000	79.67900	ng	0	30	0.0500	
2-Fluorobiphenyl	1.2232	1.3126	80.00000	85.85190	ng	7	30	0.0500	
2,4,6-Tribromophenol	0.2342	0.2324	80.00000	69.01460	ng	-14	30	0.0500	
Terphenyl-d14	1.0848	1.0505	80.00000	77.47350	ng	-3	30	0.0500	

!=warning +=high bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA05.D
Report Date: 10-Aug-2004 23:26

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA05.D
Lab Smp Id:
Inj Date : 10-AUG-2004 22:32
Operator : BVD
Smp Info : CCV,04WS1380
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\6PTBNA3.m
Meth Date : 10-Aug-2004 23:26 tapsvc
Cal Date : 16-JUL-2004 13:38
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.03
Processing Host: GCMSSERVER

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 14-JAN-2002 17:05
Inst ID: MSBNA03.i

Quant Type: ISTD
Cal File: VGG10.D
Continuing Calibration Sample

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	3.699	3.699	(0.582)	69841	80.0000	84.8195
2 Pyridine	79	3.668	3.668	(0.577)	161185	80.0000	79.5926
$ 3 2-Fluorophenol	112	4.992	4.992	(0.785)	138179	80.0000	79.0215
$ 4 Phenol-d5	99	5.965	5.965	(0.938)	183115	80.0000	78.7638
5 Phenol	94	5.986	5.986	(0.941)	196283	80.0000	80.0103
6 Aniline	66	6.048	6.048	(0.951)	88400	80.0000	92.1198
7 bis(2-Chloroethyl)ether	63	6.079	6.079	(0.956)	114341	80.0000	79.4479
8 2-Chlorophenol	128	6.162	6.162	(0.969)	159246	80.0000	82.4037
9 1,3-Dichlorobenzene	146	6.317	6.317	(0.993)	175536	80.0000	80.8924
* 10 1,4-Dichlorobenzene-d4	152	6.359	6.359	(1.000)	56524	40.0000	
11 1,4-Dichlorobenzene	146	6.379	6.379	(1.003)	179815	80.0000	81.5014
12 Benzyl alcohol	108	6.535	6.535	(1.028)	107028	80.0000	84.5005
13 2-Methylphenol	107	6.648	6.648	(1.046)	132281	80.0000	90.6560
14 1,2-Dichlorobenzene	146	6.597	6.597	(1.037)	172403	80.0000	86.5728

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA05.D
Report Date: 10-Aug-2004 23:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	6.690	6.690	(1.052)	200385	80.0000	80.8980
	16 4-Methylphenol	107	6.824	6.824	(1.073)	201404	80.0000	86.6386
	17 N-Nitroso-di-n-propylamine	70	6.876	6.876	(1.081)	100000	80.0000	90.2442
	18 Hexachloroethane	117	6.949	6.949	(1.093)	66997	80.0000	84.5452
$	19 Nitrobenzene-d5	82	7.042	7.042	(0.895)	187698	80.0000	79.6789
	20 Nitrobenzene	77	7.062	7.062	(0.897)	181548	80.0000	78.4036
	21 Isophorone	82	7.332	7.332	(0.932)	328696	80.0000	77.8288
	22 2,4-Dimethylphenol	122	7.445	7.445	(0.946)	131383	80.0000	81.5760
	23 2-Nitrophenol	139	7.435	7.435	(0.945)	97532	80.0000	81.4849
	24 bis(2-Chloroethoxy)methane	93	7.559	7.559	(0.961)	202275	80.0000	81.0469
	25 Benzoic acid	122	7.632	7.632	(0.970)	60478	80.0000	57.5152
	26 2,4-Dichlorophenol	162	7.704	7.704	(0.979)	143463	80.0000	78.5982
	27 1,2,4-Trichlorobenzene	180	7.808	7.808	(0.992)	162099	80.0000	82.1317
*	28 Naphthalene-d8	136	7.870	7.870	(1.000)	216443	40.0000	
	29 Naphthalene	128	7.901	7.901	(1.004)	470180	80.0000	79.7779
	30 4-Chloroaniline	127	7.973	7.973	(1.013)	204044	80.0000	84.8415
	31 Hexachlorobutadiene	225	8.087	8.087	(1.028)	90262	80.0000	79.8578
	32 4-Chloro-3-methylphenol	107	8.522	8.522	(1.083)	143095	80.0000	76.9714
	33 2-Methylnaphthalene	142	8.729	8.729	(1.109)	326301	80.0000	79.1868
	34 Hexachlorocyclopentadiene	237	8.988	8.988	(0.895)	78503	80.0000	81.1875
	35 2,4,6-Trichlorophenol	196	9.101	9.101	(0.906)	110939	80.0000	82.6958
	36 2,4,5-Trichlorophenol	196	9.143	9.143	(0.910)	112122	80.0000	80.5487
$	37 2-Fluorobiphenyl	172	9.184	9.184	(0.914)	345888	80.0000	85.8519
	38 2-Chloronaphthalene	162	9.339	9.339	(0.930)	313727	80.0000	86.9028
	39 2-Nitroaniline	65	9.505	9.505	(0.946)	102764	80.0000	80.6907
	40 Dimethylphthalate	163	9.733	9.733	(0.969)	369433	80.0000	80.5616
	41 2,6-Dinitrotoluene	165	9.847	9.847	(0.980)	94667	80.0000	83.5439
	42 Acenaphthylene	152	9.867	9.867	(0.982)	485946	80.0000	83.2120
	43 3-Nitroaniline	138	10.023	10.023	(0.998)	98143	80.0000	89.3181
*	44 Acenaphthene-d10	164	10.043	10.043	(1.000)	131753	40.0000	
	45 Acenaphthene	154	10.095	10.095	(1.005)	284722	80.0000	76.2961
	46 2,4-Dinitrophenol	184	10.147	10.147	(1.010)	50622	80.0000	66.2035
	47 4-Nitrophenol	109	10.198	10.198	(1.015)	34142	80.0000	69.0418
	48 Dibenzofuran	168	10.292	10.292	(1.025)	452171	80.0000	83.8221
	49 Diethylphthalate	149	10.592	10.592	(1.055)	350201	80.0000	81.1670
	50 4-Chlorophenyl-phenylether	204	10.685	10.685	(1.064)	183235	80.0000	80.3620
	51 Fluorene	166	10.716	10.716	(1.067)	362532	80.0000	80.8442
	52 2,4-Dinitrotoluene	165	10.333	10.333	(1.029)	116408	80.0000	79.2213
	53 4-Nitroaniline	138	10.819	10.819	(1.077)	83915	80.0000	98.4366
	54 4,6-Dinitro-2-methylphenol	198	10.861	10.861	(0.914)	74326	80.0000	76.3965
	55 N-Nitrosodiphenylamine	169	10.861	10.861	(0.914)	242991	80.0000	81.6507
	56 Azobenzene	77	10.892	10.892	(0.916)	381606	80.0000	89.2182
$	57 2,4,6-Tribromophenol	330	11.047	11.047	(1.100)	61234	80.0000	69.0146
	58 4-Bromophenyl-phenylether	248	11.296	11.296	(0.950)	122471	80.0000	86.8314
	59 Hexachlorobenzene	284	11.503	11.503	(0.968)	130246	80.0000	84.1551
	60 Pentachlorophenol	266	11.720	11.720	(0.986)	72225	80.0000	68.5521
*	61 Phenanthrene-d10	188	11.886	11.886	(1.000)	227010	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA05.D
Report Date: 10-Aug-2004 23:26

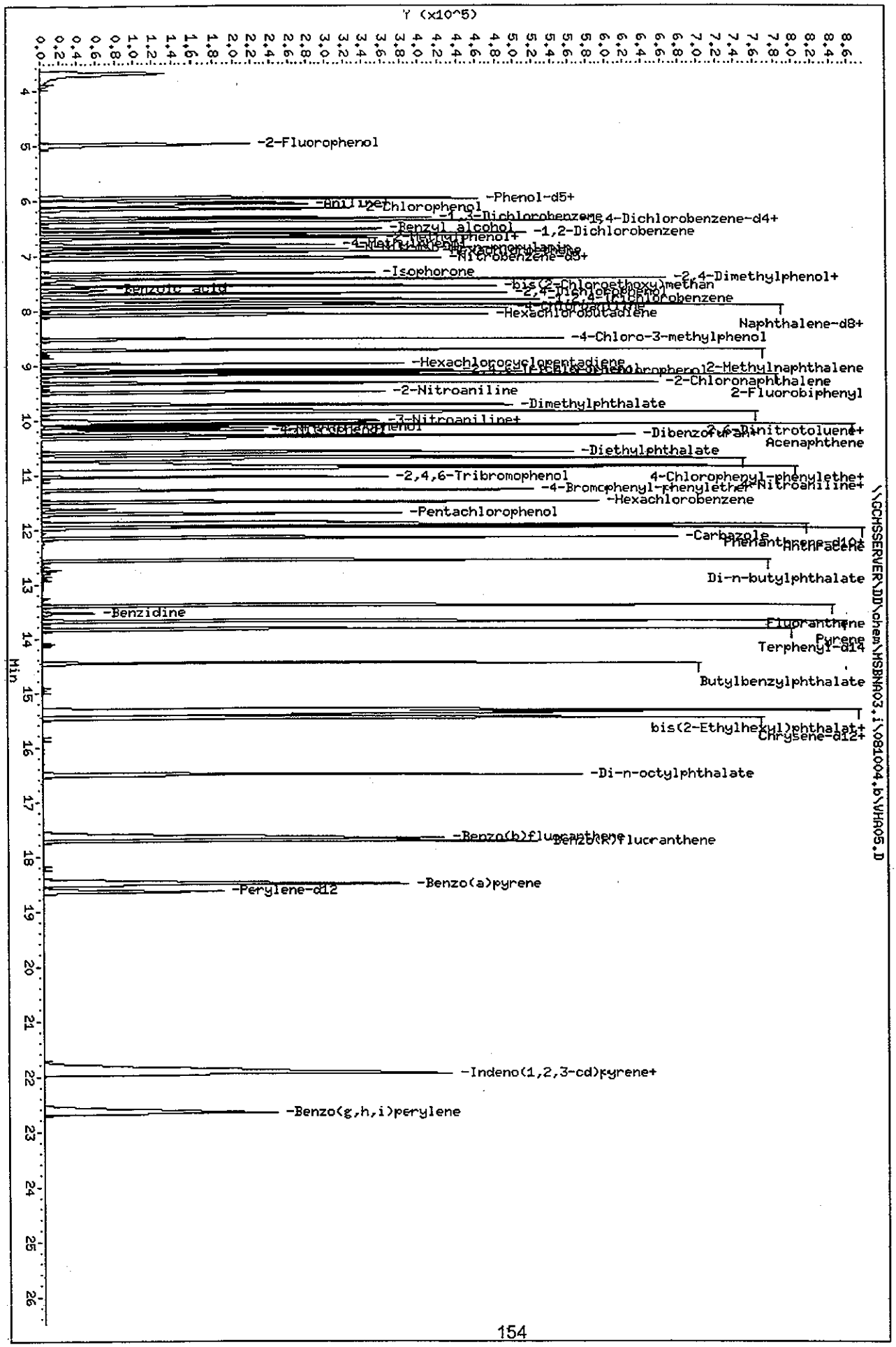
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	11.917	11.917	(1.003)	520992	80.0000	83.6592
63 Anthracene	178	11.979	11.979	(1.008)	504913	80.0000	83.0545
64 Carbazole	167	12.165	12.165	(1.024)	429445	80.0000	94.3277
65 Di-n-butylphthalate	149	12.579	12.579	(1.058)	554998	80.0000	80.0788
66 Fluoranthene	202	13.407	13.407	(1.128)	592324	80.0000	79.9276
67 Benzidine	184	13.542	13.542	(0.878)	42275	80.0000	214.2951(A)
68 Pyrene	202	13.697	13.697	(0.889)	604845	80.0000	79.3824
$ 69 Terphenyl-d14	244	13.842	13.842	(0.898)	462481	80.0000	77.4735
70 Butylbenzylphthalate	149	14.473	14.473	(0.939)	279994	80.0000	81.0605
71 bis(2-Ethylhexyl)phthalate	149	15.332	15.332	(0.995)	322498	80.0000	67.8992
72 3,3'-Dichlorobenzidine	252	15.353	15.353	(0.996)	193045	80.0000	66.9079
73 Benzo(a)anthracene	228	15.384	15.384	(0.998)	615648	80.0000	82.1870
* 74 Chrysene-d12	240	15.415	15.415	(1.000)	220115	40.0000	
75 Chrysene	228	15.477	15.477	(1.004)	560913	80.0000	81.4101
76 Di-n-octylphthalate	149	16.522	16.522	(0.886)	662657	80.0000	71.9009
77 Benzo(b)fluoranthene	252	17.682	17.682	(0.948)	805857	80.0000	83.7485
78 Benzo(k)fluoranthene	252	17.733	17.733	(0.951)	509362	80.0000	75.8845
79 Benzo(a)pyrene	252	18.520	18.520	(0.993)	550448	80.0000	80.4204
* 80 Perylene-d12	264	18.655	18.655	(1.000)	182792	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.936	21.936	(1.176)	600645	80.0000	88.1389
82 Dibenz(a,h)anthracene	278	21.956	21.956	(1.177)	515468	80.0000	88.7083
83 Benzo(g,h,i)perylene	276	22.670	22.670	(1.215)	438753	80.0000	88.7630

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\081004.b\VHA05.D
Date : 10-AUG-2004 22:32
Client ID: CURTIS&TOMPKINS
Sample Info: CCV,04WS1380
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93677
Date: 08/12/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173857-001	15.4365	22.8128	22.4789	95	5
173857-002	15.2825	22.2745	21.9924	96	4
173881-025	15.2216	22.6951	22.3870	96	4
173881-026	15.5389	22.8794	22.5438	95	5
173881-028	15.6512	22.8394	22.5465	96	4
173881-029	15.2827	22.6613	22.4821	98	2
173881-030	15.5933	22.3822	22.1381	96	4
173895-001	15.4115	22.8971	22.4930	95	5
173895-002	15.4235	22.3865	21.5073	87	13
173895-003	15.4641	22.5407	21.6587	88	12
173895-004	15.4109	22.6418	20.7659	74	26
173895-005	15.2925	22.9394	21.8503	86	14
173895-006	15.2137	22.3705	21.8531	93	7
QC260907	15.7376	22.6171	22.2460	95	5
of 173857-001			RPD:	0.9%	17.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93677
Date Started: 11-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
L73857-001		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
L73857-002		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
L73881-025		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-026		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
L73881-028		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
.73881-029		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
.73881-030		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
.73895-001		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-002		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-003		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-004		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-005		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
.73895-006		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
!C260907	SDUP of 173857-001		Soil	MOISTURE	

8/11/04

#93677

Sample	Bk	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	3	15.3476	—	15.3477	
173881-25	A	80	15.2216	22.6951	22.3870	
26		112	15.5389	22.8794	22.5438	
28		1976	15.6512	22.8394	22.5465	
29		73	15.2827	22.6613	22.4821	
30		29	15.5933	22.3822	22.1381	
173857-1		32	15.4365	22.8128	22.4789	
DUP 1		33	15.7376	22.6171	22.2460	
95 2		26	15.2825	22.2745	21.9824	
173859-1		6	15.4115	22.8971	22.4930	
8/11 2		34	15.4235	22.3865	21.5873	
3		HIDEL	15.4641	22.5407	21.6587	
4		24	15.4106	22.6418	20.7659	
5		44	15.2925	22.9394	21.8503	
6		146	15.2137	22.3705	21.8531	

OVEN TEMP: 103°C
TIME IN: 4:45 P.M.
TIME OUT: 9:38 A.M. OV: 8/12/04

Continued on Page

Read and Understood By

R. Manning 8/11/04 158 [illegible] 8-11
Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173857
Total Extractable Hydrocarbons

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio - Baker Beach 3

Sample ID	Lab ID
BB3EX108[0.5]	173857-001
DUP080504A	173857-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/7/04
Operations Manager

Signature: _____ Date: 8/30/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)

Laboratory number:	173857
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio - Baker Beach 3
Request Date:	08/05/04
Samples Received:	08/05/04

This hardcopy data package contains sample and batch QC results for two soil samples, requested for the above referenced project on 08/05/04. The samples were received cold and intact.

Low recoveries were observed for diesel C12-C24 in the MS/MSD for batch 93629; the parent sample was not a project sample, and the LCS was within limits.

No other analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

173857

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Miles Chambers
Recorder (Signature Required): [signature]

Turnaround Time: 5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	pesticides	PCBs	mercury	VOCs	SVOCs	TPH diesel	TPH fuel oil	chlorinated herb				Silica gel clean-up	Hold	Remarks
-1 BB3EX(05[0-3]	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		Sample tube from "B" end labeled 3 with 6 Level 4 data Package
-2 DUP0805041A	8/5/04	1217		X						1		X	X	X	X	X	X	X	X	X				X		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/5/04	1415	John Kaylor	8/5	2:8
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) Mark Cohen	Date 8-5-04	Time 15:30	Received by Lab: (Signature) Lavanna Cati	Date 8/5/04	Time 15:30

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Send Login to Colleen Harden - SF Office

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☒ Private Courier (Co. Name) Ultra Ex

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002235

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173857 Date Received: 8-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 8-5-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: wet Temperature: cold – no temp blank

B. Login Phase
Date Logged In: 8-5-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/05/04
Units:	mg/Kg	Received:	08/05/04
Diln Fac:	1.000	Prepared:	08/10/04
Batch#:	93629		

Field ID:	BB3EX108[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	5%
Lab ID:	173857-001	Analyzed:	08/10/04

Analyte	Result	RL	MDL
Diesel C12-C24	2.3 Y	1.1	0.35
Motor Oil C24-C36	ND	5.3	0.32

Surrogate	%REC	Limits
Hexacosane	98	65-135

Field ID:	DUP080504A	Basis:	dry
Type:	SAMPLE	Moisture:	4%
Lab ID:	173857-002	Analyzed:	08/10/04

Analyte	Result	RL	MDL
Diesel C12-C24	1.8 Y	1.0	0.34
Motor Oil C24-C36	ND	5.2	0.30

Surrogate	%REC	Limits
Hexacosane	88	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC260712	Analyzed:	08/11/04

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.34
Motor Oil C24-C36	ND	5.0	2.4

Surrogate	%REC	Limits
Hexacosane	110	65-135

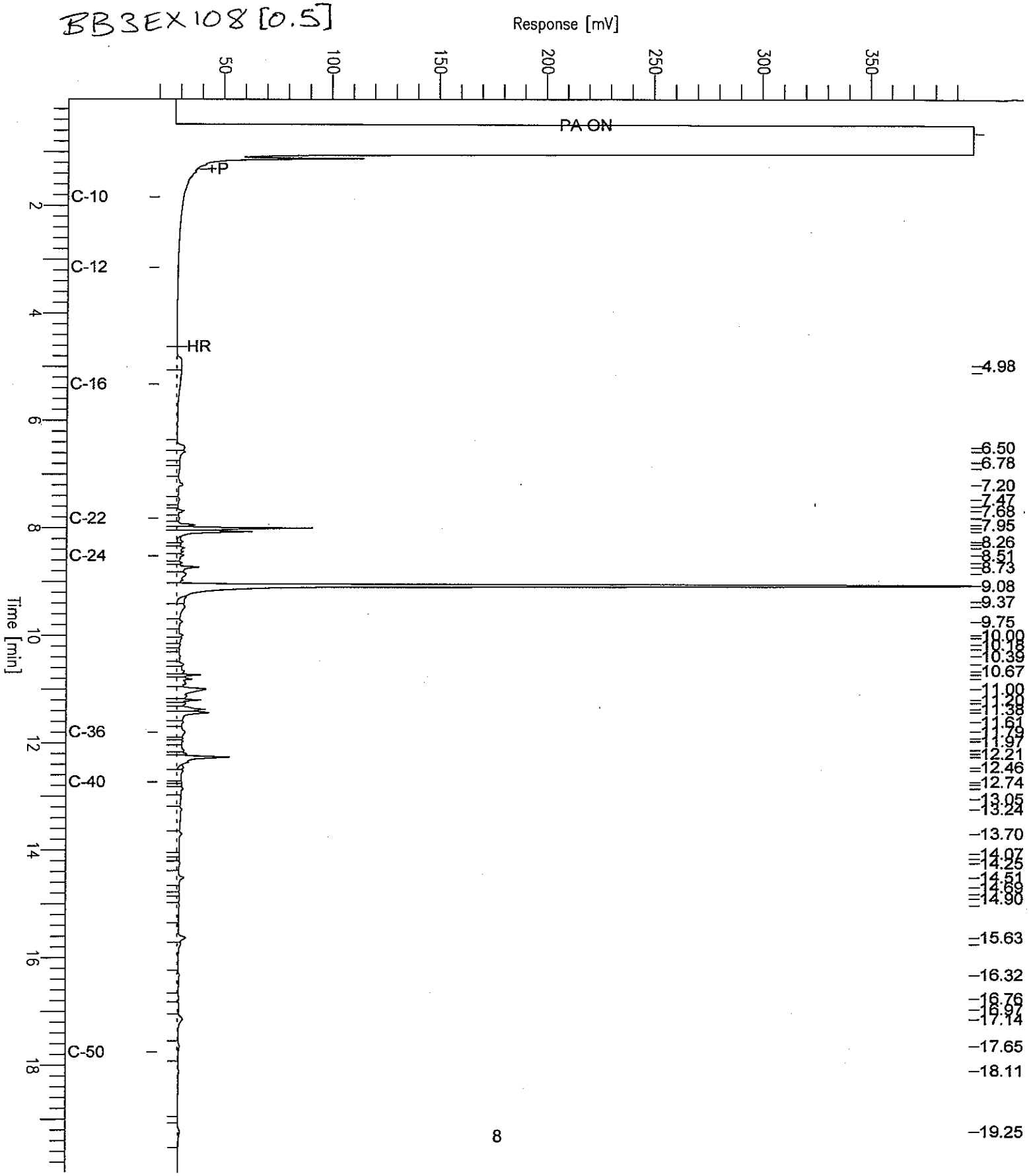
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Chromatogram

Sample Name : 173857-001,93629
FileName : G:\GC17\CHA\223A012.RAW
Method : ATEH212.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #: 93629
Date : 8/11/04 08:43 AM
Time of Injection: 8/10/04 08:20 PM
Low Point : 19.87 mV High Point : 397.46 mV
Plot Scale: 377.6 mV

BB3EX108 [0.5]

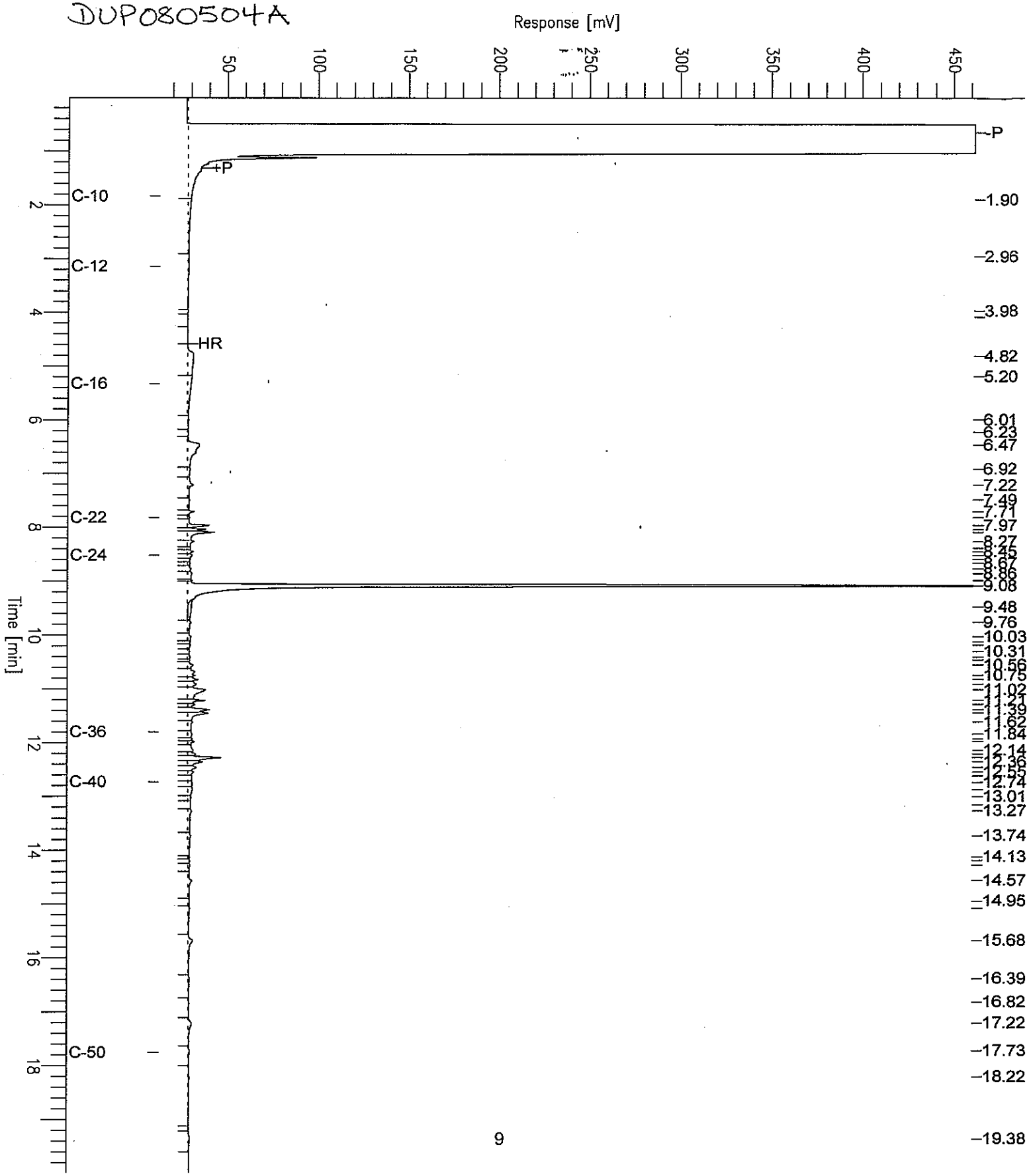


Chromatogram

Sample Name : 173857-002,93629
FileName : G:\GC17\CHA\223A011.RAW
Method : ATEH212.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #: 93629 Page 1 of 1
Date : 8/11/04 08:43 AM
Time of Injection: 8/10/04 07:52 PM
Low Point : 12.55 mV High Point : 461.63 mV
Plot Scale: 449.1 mV

DUP080504A

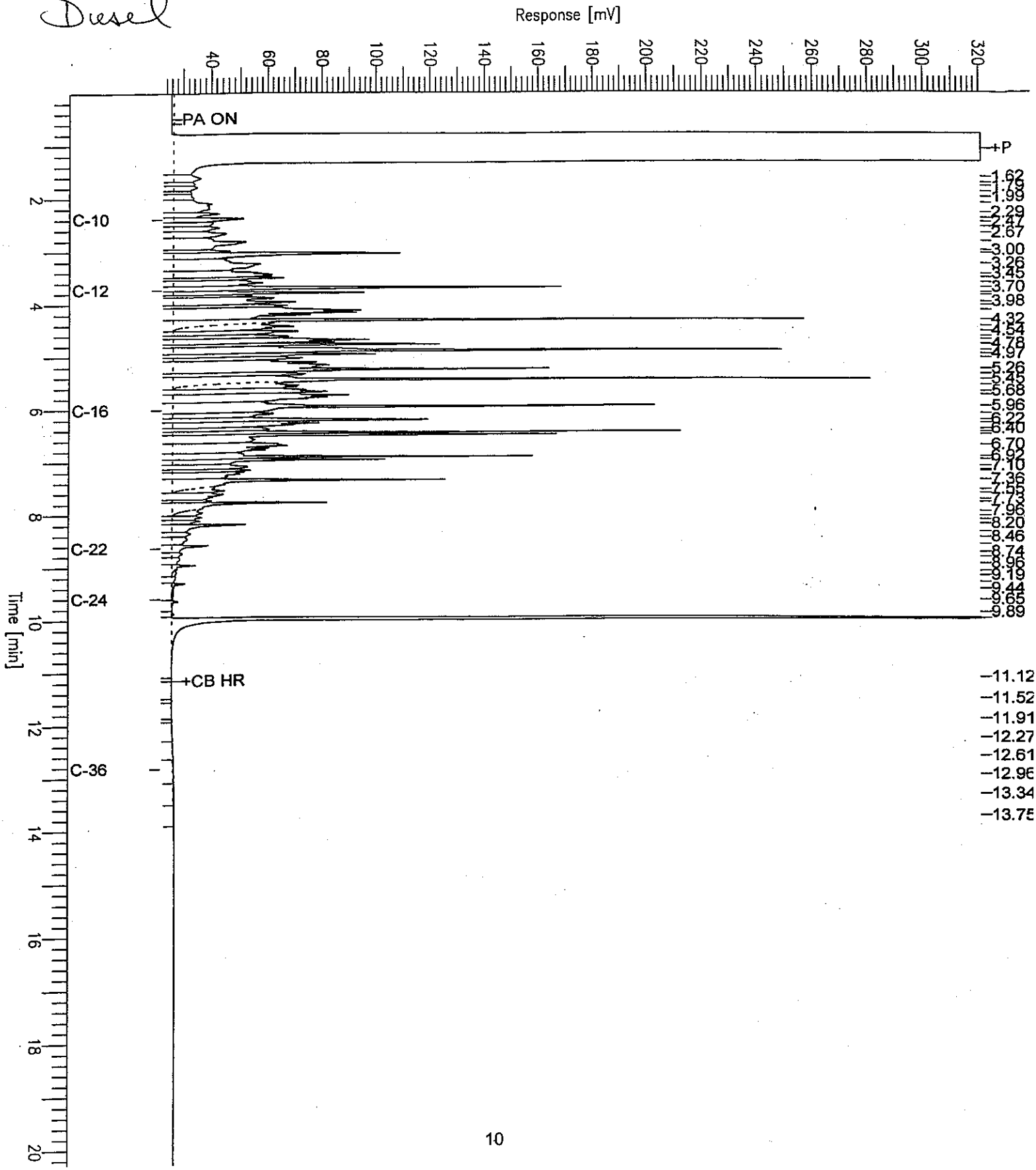


Chromatogram

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC11\CHA\223A003.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min End Time : 20.28 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 8/10/04 11:10 AM
Time of Injection: 8/10/04 10:21 AM
Low Point : 22.22 mV High Point : 320.83 mV
Plot Scale: 298.6 mV

Diesel

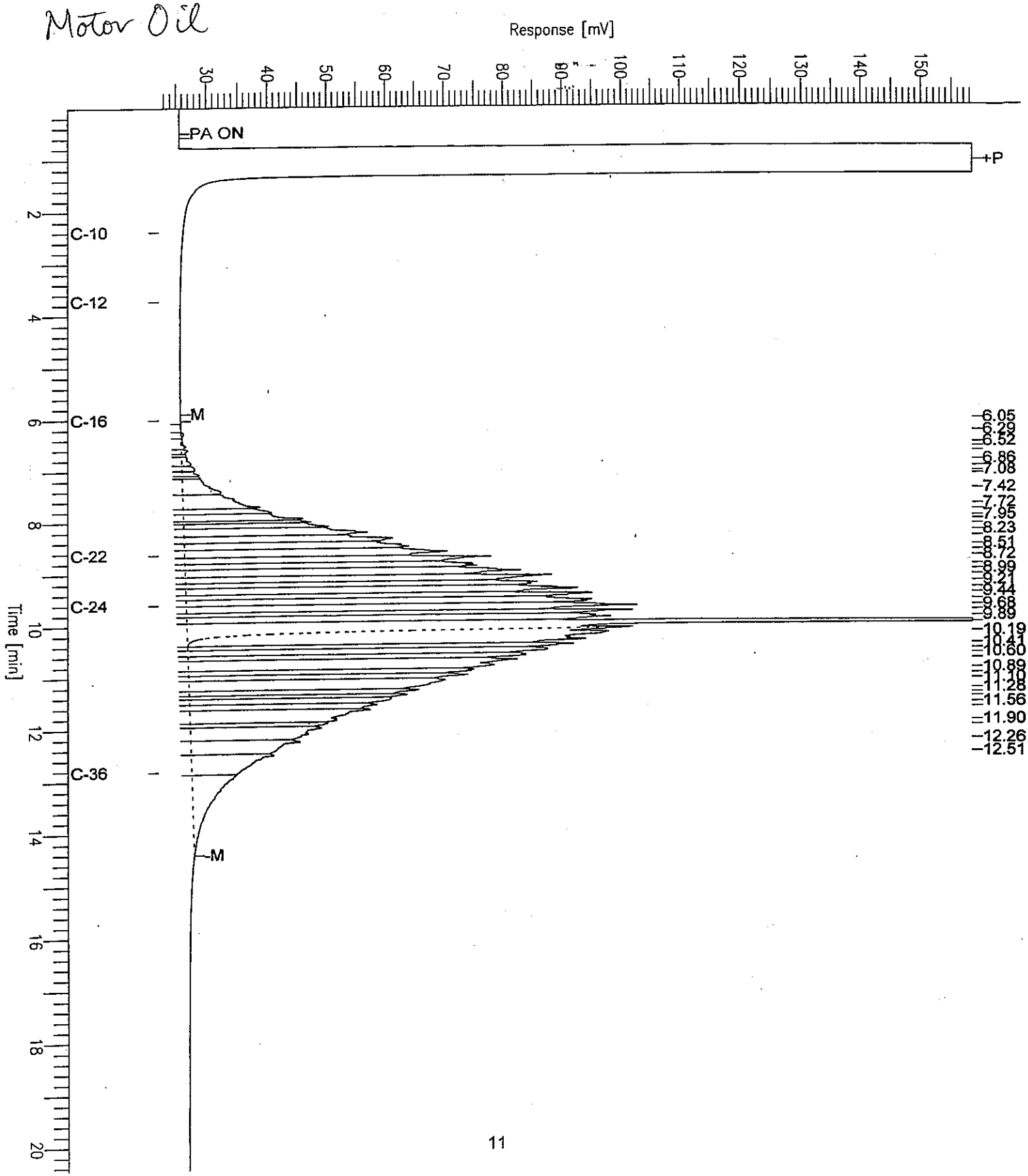


Chromatogram

Sample Name : ccv,04wsl425,mo
FileName : G:\GC11\CHA\223A004.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 8/10/04 11:13 AM
Time of Injection: 8/10/04 10:49 AM
Low Point : 22.21 mV High Point : 158.37 mV
Plot Scale: 136.2 mV

Motor Oil



Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260713	Batch#:	93629
Matrix:	Soil	Prepared:	08/10/04
Units:	mg/Kg	Analyzed:	08/10/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	50.19	44.31	88	65-135

Surrogate	%REC	Limits
Hexacosane	90	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	173857	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	93629
MSS Lab ID:	173881-004	Sampled:	08/05/04
Matrix:	Soil	Received:	08/06/04
Units:	mg/Kg	Prepared:	08/10/04
Basis:	dry	Analyzed:	08/11/04
Diln Fac:	1.000		

Type: MS Moisture: 14%
Lab ID: QC260714

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	76.31	58.61	93.40	29 *	65-135

Surrogate	%REC	Limits
Hexacosane	82	65-135

Type: MSD Moisture: 14%
Lab ID: QC260715

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	58.48	105.1	49 *	65-135	12	35

Surrogate	%REC	Limits
Hexacosane	114	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: CW
Calnum: 114295755001 Name: mo Type: (normal) Date: 23-JUL-2004 17:32 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	205a013	114295755013	mo	23-JUL-2004 17:32	04WS1208
2	205a014	114295755014	mo	23-JUL-2004 18:01	04WS1209
3	205a015	114295755015	mo	23-JUL-2004 18:30	04WS1210
4	205a016	114295755016	mo	23-JUL-2004 18:59	04WS1211
5	205a017	114295755017	mo	23-JUL-2004 19:28	04WS1212
6	205a018	114295755018	mo	23-JUL-2004 19:57	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C20-C36	21196	25173	24978	24873	25475	25510	AVRG	R		4.076E-5		mg/L	24534	7	0.995	20	
Motor Oil C22-C32	17291	19790	19639	19975	20922	21081	AVRG	R		5.055E-5		mg/L	19783	7	0.995	20	
Motor Oil C22-C36	18882	22345	22239	22221	22603	23146	AVRG	R		4.565E-5		mg/L	21906	7	0.995	20	
Motor Oil C24-C36	14945	17893	17883	17772	17977	18783	AVRG	R		5.701E-5		mg/L	17542	8	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: CW
Calnum: 114301759001 Name: Hexacosane Type: (normal) Date: 27-JUL-2004 17:53 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	209a010	114301759010	hex	27-JUL-2004 17:53	04WS0533
2	209a011	114301759011	hex	27-JUL-2004 18:22	04WS0534
3	209a012	114301759012	hex	27-JUL-2004 18:51	04WS0535
4	209a013	114301759013	hex	27-JUL-2004 19:20	04WS0536
5	209a014	114301759014	hex	27-JUL-2004 19:49	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	24923	25871	27071	30997	30546	AVRG R		3.587E-5		mg/L	27882	10	0.995	20	

15

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MMP
Calnum: 114306371001 Name: Diesel Type: (normal) Date: 30-JUL-2004 18:40 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	212a002	114306371002	dsl	30-JUL-2004 18:40	04WS1223
2	212a003	114306371003	dsl	30-JUL-2004 19:09	04WS1222
3	212a004	114306371004	dsl	30-JUL-2004 19:38	04WS1221
4	212a005	114306371005	dsl	30-JUL-2004 20:06	04WS1220
5	212a006	114306371006	dsl	30-JUL-2004 20:35	04WS1219
6	212a007	114306371007	dsl	30-JUL-2004 21:04	04WS1218
7	212a008	114306371008	dsl	30-JUL-2004 21:34	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MoR^2	MxRSD	Flags
Diesel C10-C22	18157	27618	27627	27314	28204	27618	26553	AVRG	R		3.823E-5		mg/L	26156	14	0.995	20	
Diesel C10-C24	18367	27618	27627	27618	28390	27847	26763	AVRG	R		3.800E-5		mg/L	26319	13	0.995	20	
Diesel C10-C28	18461	27624	27640	27660	28478	27891	26834	AVRG	R		3.792E-5		mg/L	26370	13	0.995	20	
Diesel C12-C22	14658	23061	23163	22884	23688	23929	22902	AVRG	R		4.537E-5		mg/L	22041	15	0.995	20	
Diesel C12-C24	14868	23061	23163	23188	23874	24159	23112	AVRG	R		4.504E-5		mg/L	22204	15	0.995	20	
Diesel C12-C36	15499	23101	23192	23246	23973	24212	23190	AVRG	R		4.475E-5		mg/L	22345	14	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: CW
Calnum: 164283116001 Name: diesel Type: (normal) Date: 14-JUL-2004 15:05 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b002	164283116002	dsl	14-JUL-2004 15:05	04WS1223
2	196b003	164283116003	dsl	14-JUL-2004 15:33	04WS1222
3	196b004	164283116004	dsl	14-JUL-2004 16:02	04WS1221
4	196b005	164283116005	dsl	14-JUL-2004 16:31	04WS1220
5	196b006	164283116006	dsl	14-JUL-2004 17:00	04WS1219
6	196b007	164283116007	dsl	14-JUL-2004 17:29	04WS1218
7	196b008	164283116008	dsl	14-JUL-2004 17:58	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	18446	21499	20824	20800	22542	21235	21471	AVRG	R		4.768E-5		mg/L	20974	6	0.995	20	
Diesel C10-C24	18446	21647	20984	20983	22719	21423	21646	AVRG	R		4.735E-5		mg/L	21121	6	0.995	20	
Diesel C10-C28	18446	21651	21007	21027	22770	21472	21698	AVRG	R		4.727E-5		mg/L	21153	6	0.995	20	
Diesel C10-C20	18446	20933	20228	20231	21906	20674	20874	AVRG	R		4.885E-5		mg/L	20470	5	0.995	20	
Diesel C12-C22	15496	18153	17621	17586	19118	18365	18507	AVRG	R		5.607E-5		mg/L	17835	6	0.995	20	
Diesel C12-C24	15496	18301	17781	17768	19295	18553	18683	AVRG	R		5.561E-5		mg/L	17983	7	0.995	20	
Diesel C12-C32	15496	18306	17804	17812	19346	18604	18740	AVRG	R		5.551E-5		mg/L	18016	7	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: CW
Calnum: 164283116004 Name: hxcs Type: (normal) Date: 14-JUL-2004 22:18 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b017	164283116017	hex	14-JUL-2004 22:18	04WS0533
2	196b018	164283116018	hex	14-JUL-2004 22:47	04WS0534
3	196b019	164283116019	hex	14-JUL-2004 23:16	04WS0535
4	196b020	164283116020	hex	14-JUL-2004 23:44	04WS0536
5	196b021	164283116021	hex	15-JUL-2004 00:13	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	22104	24448	23772	23458	24259	AVRG R		4.236E-5		mg/L	23609	4	0.995	20	

18

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: RH
Calnum: 174110421005 Name: mo Type: (normal) Date: 17-MAR-2004 03:10 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	076a023	174110421023	mo-50	17-MAR-2004 03:10	04WS0294
2	076a024	174110421024	mo-250	17-MAR-2004 03:39	04WS0293
3	076a025	174110421025	mo-500	17-MAR-2004 04:08	04WS0292
4	076a026	174110421026	mo-1000	17-MAR-2004 04:37	04WS0291
5	076a027	174110421027	mo-2500	17-MAR-2004 05:06	04WS0290
6	076a028	174110421028	mo-5000	17-MAR-2004 05:34	04WS0452

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Motor Oil C20-C36	25035	29252	28947	28729	31236	28882	AVRG	R		3.487E-5		mg/L	28680	7	0.995	20	
Motor Oil C22-C32	20977	24357	23277	23835	24740	23289	AVRG	R		4.271E-5		mg/L	23413	6	0.995	20	
Motor Oil C22-C36	22951	26791	26560	26258	28510	26396	AVRG	R		3.810E-5		mg/L	26244	7	0.995	20	
Motor Oil C24-C36	18835	22037	21985	21435	23510	21672	AVRG	R		4.634E-5		mg/L	21579	7	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: RH
Calnum: 174110421004 Name: hex Type: (normal) Date: 17-MAR-2004 13:50 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	076a033	174110421033	hex5	17-MAR-2004 13:50	04WS0533
2	076a034	174110421034	hex10	17-MAR-2004 14:19	04WS0534
3	076a035	174110421035	hex25	17-MAR-2004 14:48	04WS0535
4	076a036	174110421036	hex50	17-MAR-2004 15:16	04WS0536
5	076a037	174110421037	hex75	17-MAR-2004 15:45	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	31334	32010	31756	32289	30693	AVRG R		3.163E-5		mg/L	31616	2	0.995	20	

20

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MCH
Calnum: 174303334001 Name: Diesel Type: (normal) Date: 28-JUL-2004 16:02 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	210a002	174303334002	dsl	28-JUL-2004 16:02	04WS1223
2	210a003	174303334003	dsl	28-JUL-2004 16:30	04WS1222
3	210a004	174303334004	dsl	28-JUL-2004 16:59	04WS1221
4	210a005	174303334005	dsl	28-JUL-2004 17:27	04WS1220
5	210a006	174303334006	dsl	28-JUL-2004 17:56	04WS1219
6	210a007	174303334007	dsl	28-JUL-2004 18:24	04WS1218
7	210a015	174303334015	dsl5000	29-JUL-2004 09:35	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	20856	30931	31347	29739	33117	30379	29880	AVRG	R		3.394E-5		mg/L	29464	13	0.995	20	
Diesel C10-C24	21646	30931	31816	30175	33364	30649	30121	AVRG	R		3.354E-5		mg/L	29814	13	0.995	20	
Diesel C10-C28	21723	31035	31835	30201	33494	30709	30209	AVRG	R		3.346E-5		mg/L	29887	13	0.995	20	
Diesel C10-C20	19558	29284	30046	29007	32210	29445	29054	AVRG	R		3.525E-5		mg/L	28372	14	0.995	20	
Diesel C12-C22	16308	26436	26065	24730	27596	25215	25489	AVRG	R		4.074E-5		mg/L	24549	15	0.995	20	
Diesel C12-C24	17098	26436	26534	25167	27843	25485	25731	AVRG	R		4.016E-5		mg/L	24899	14	0.995	20	
Diesel C12-C32	17536	26567	26570	25209	27991	25560	25833	AVRG	R		3.994E-5		mg/L	25038	14	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114321683016	10-AUG-2004 22:46	114306371001	30-JUL-2004	22204	22828	1000.0	1028.1	mg/L	3	15	
GC11A	A	114321683030	11-AUG-2004 05:30	114306371001	30-JUL-2004	22204	22059	250.00	248.38	mg/L	-1	15	
GC11A	A	114321683041	11-AUG-2004 10:47	114306371001	30-JUL-2004	22204	22340	500.00	503.07	mg/L	1	15	
GC11A	A	114321683056	11-AUG-2004 21:20	114306371001	30-JUL-2004	22204	22898	1000.0	1031.3	mg/L	3	15	
GC15B	B	164321871003	10-AUG-2004 13:27	164283116001	14-JUL-2004	17983	16911	500.00	470.22	mg/L	-6	15	
GC15B	B	164321871012	10-AUG-2004 22:11	164283116001	14-JUL-2004	17983	18166	1000.0	1010.2	mg/L	1	15	
GC15B	B	164323165011	11-AUG-2004 15:36	164283116001	14-JUL-2004	17983	16915	500.00	470.31	mg/L	-6	15	
GC15B	B	164323165022	12-AUG-2004 00:08	164283116001	14-JUL-2004	17983	17901	1000.0	995.47	mg/L	0	15	
GC17A	A	174321682003	10-AUG-2004 10:19	174303334001	28-JUL-2004	24899	23329	500.00	468.48	mg/L	-6	15	
GC17A	A	174321682016	10-AUG-2004 22:15	174303334001	28-JUL-2004	24899	24902	1000.0	1000.1	mg/L	0	15	

CONTINUING CALIBRATION SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114321683017	10-AUG-2004 23:15	114295755001	23-JUL-2004	17542	18392	500.00	524.24	mg/L	5	15	
GC11A	A	114321683031	11-AUG-2004 05:59	114295755001	23-JUL-2004	17542	18032	500.00	513.95	mg/L	3	15	
GC17A	A	174321682004	10-AUG-2004 10:48	174110421005	17-MAR-2004	21579	20627	500.00	477.94	mg/L	-4	15	
GC17A	A	174321682017	10-AUG-2004 22:43	174110421005	17-MAR-2004	21579	21749	500.00	503.94	mg/L	1	15	

CONTINUING CALIBRATION SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114321683016	10-AUG-2004 22:46	114301759001	27-JUL-2004	27882	29626	50.000	53.128	mg/L	6	15	
GC11A	A	114321683030	11-AUG-2004 05:30	114301759001	27-JUL-2004	27882	28222	50.000	50.611	mg/L	1	15	
GC11A	A	114321683041	11-AUG-2004 10:47	114301759001	27-JUL-2004	27882	28778	50.000	51.607	mg/L	3	15	
GC11A	A	114321683056	11-AUG-2004 21:20	114301759001	27-JUL-2004	27882	28334	50.000	50.812	mg/L	2	15	
GC15B	B	164321871003	10-AUG-2004 13:27	164283116004	14-JUL-2004	23609	22509	50.000	47.671	mg/L	-5	15	
GC15B	B	164321871012	10-AUG-2004 22:11	164283116004	14-JUL-2004	23609	23584	50.000	49.947	mg/L	0	15	
GC15B	B	164323165010	11-AUG-2004 14:22	164283116004	14-JUL-2004	23609	24066	50.000	50.968	mg/L	2	15	
GC15B	B	164323165020	11-AUG-2004 23:11	164283116004	14-JUL-2004	23609	24882	50.000	52.697	mg/L	5	15	
GC17A	A	174321682003	10-AUG-2004 10:19	174110421004	17-MAR-2004	31616	31824	50.000	50.328	mg/L	1	15	
GC17A	A	174321682016	10-AUG-2004 22:15	174110421004	17-MAR-2004	31616	31809	50.000	50.306	mg/L	1	15	

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 174110421 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 16-MAR-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	076a001	X	hex75			16-MAR-2004 16:21	1.0					
002	076a002	X	dsl10			16-MAR-2004 17:01	1.0					
003	076a003	X	hex75			16-MAR-2004 17:32	1.0					
004	076a004	X	dsl10			16-MAR-2004 18:01	1.0					
005	076a005	X	primer			16-MAR-2004 18:37	1.0					
006	076a006	X	c10-16			16-MAR-2004 19:05	1.0					
007	076a007	X	c12-50			16-MAR-2004 19:34	1.0					
008	076a008	X	ib			16-MAR-2004 20:02	1.0					
009	076a009	ICAL	jp5-10			16-MAR-2004 20:31	1.0	1.0			1	
010	076a010	ICAL	jp5-100			16-MAR-2004 20:59	1.0	1.0			2	
011	076a011	ICAL	jp5-500			16-MAR-2004 21:28	1.0	1.0			3	
012	076a012	ICAL	jp5-1500			16-MAR-2004 21:56	1.0	1.0			4	
013	076a013	ICAL	jp5-3000			16-MAR-2004 22:25	1.0	1.0			5	
014	076a014	X	ib			16-MAR-2004 22:53	1.0					
015	076a015	ICAL	dsl-10			16-MAR-2004 23:21	1.0	1.0			6	
016	076a016	ICAL	dsl-100			16-MAR-2004 23:50	1.0	1.0			7	
017	076a017	ICAL	dsl-250			17-MAR-2004 00:18	1.0	1.0			8	
018	076a018	ICAL	dsl-500			17-MAR-2004 00:47	1.0	1.0			9	
019	076a019	ICAL	dsl-1000			17-MAR-2004 01:15	1.0	1.0			10	
020	076a020	ICAL	dsl-2500			17-MAR-2004 01:44	1.0	1.0			11	
021	076a021	ICAL	dsl-5000			17-MAR-2004 02:13	1.0	1.0			12	
022	076a022	X	ib			17-MAR-2004 02:41	1.0					
023	076a023	ICAL	mo-50			17-MAR-2004 03:10	1.0	1.0			13	
024	076a024	ICAL	mo-250			17-MAR-2004 03:39	1.0	1.0			14	
025	076a025	ICAL	mo-500			17-MAR-2004 04:08	1.0	1.0			15	
026	076a026	ICAL	mo-1000			17-MAR-2004 04:37	1.0	1.0			16	
027	076a027	ICAL	mo-2500			17-MAR-2004 05:06	1.0	1.0			17	
028	076a028	ICAL	mo-5000			17-MAR-2004 05:34	1.0	1.0			18	
029	076a029	X	ib			17-MAR-2004 06:03	1.0					
030	076a030	ICV	dsl			17-MAR-2004 06:32	1.0	1.0		3	19	

Stds used: 1=03WS1524 2=03WS1525 3=03WS1526 4=03WS1527 5=03WS1528 6=04WS0470 7=04WS0469 8=04WS0468 9=04WS0467 10=04WS0466 11=04WS0465 12=04WS0464 13=04WS0294 14=04WS0293 15=04WS0292 16=04WS0291 17=04WS0290 18=04WS0452 19=04WS0471 20=04WS0533 21=04WS0534 22=04WS0535 23=04WS0536 24=04WS0537 25=04WS0462 26=04WS0463 27=04WS0459

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 174110421 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 16-MAR-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	076a031	X	c50			17-MAR-2004 07:01	1.0						
032	076a032	X	ib			17-MAR-2004 13:22	1.0						
033	076a033	ICAL	hex5			17-MAR-2004 13:50	1.0	1.0				20	
034	076a034	ICAL	hex10			17-MAR-2004 14:19	1.0	1.0				21	
035	076a035	ICAL	hex25			17-MAR-2004 14:48	1.0	1.0				22	
036	076a036	ICAL	hex50			17-MAR-2004 15:16	1.0	1.0				23	
037	076a037	ICAL	hex75			17-MAR-2004 15:45	1.0	1.0				24	
038	076a038	X	ib			17-MAR-2004 18:44	1.0						
039	076a039	X	ccv			17-MAR-2004 19:13	1.0					25	
040	076a040	CCV	dsl			17-MAR-2004 19:41	1.0	1.0			3	25	
041	076a041	BLANK	QC244092	89287	Soil	17-MAR-2004 20:10	1.0	0.1003	7		3		
042	076a042	MDL	171067-001	89287	Soil	17-MAR-2004 20:39	1.0	0.09952			3		
043	076a043	MDL	171067-002	89287	Soil	17-MAR-2004 21:07	1.0	0.1009			3		
044	076a044	MDL	171067-003	89287	Soil	17-MAR-2004 21:35	1.0	0.1003			3		
045	076a045	MDL	171067-004	89287	Soil	17-MAR-2004 22:04	1.0	0.1007			3		
046	076a046	X	171067-005	89287	Soil	17-MAR-2004 22:33	1.0	0.09952			3		
047	076a047	MDL	171067-006	89287	Soil	17-MAR-2004 23:01	1.0	0.101			3		
048	076a048	MDL	171067-007	89287	Soil	17-MAR-2004 23:30	1.0	0.1003			3		
049	076a049	MDL	171067-008	89287	Soil	17-MAR-2004 23:58	1.0	0.1009			3		
050	076a050	X	ccv			18-MAR-2004 00:27	1.0					26	
051	076a051	CCV	dsl			18-MAR-2004 00:56	1.0	1.0			3	26	
052	076a052	CCV	mo			18-MAR-2004 01:24	1.0	1.0			3	27	
053	076a053	BLANK	QC241724	88671	Water	18-MAR-2004 01:53	1.0	0.005	8	1	3		
054	076a054	SAMPLE	170316-001	88671	Water	18-MAR-2004 02:21	1.0	0.005	5		3		1:HXCS=77.0518
055	076a055	SAMPLE	170316-002	88671	Water	18-MAR-2004 02:49	1.0	0.005	5		3		1:HXCS=107.328
056	076a056	SAMPLE	170316-003	88671	Water	18-MAR-2004 03:18	1.0	0.005	5		3		1:HXCS=82.4706
057	076a057	SAMPLE	170316-004	88671	Water	18-MAR-2004 03:46	1.0	0.005	5		3		
058	076a058	SAMPLE	170316-005	88671	Water	18-MAR-2004 04:15	1.0	0.005	5	1	3		
059	076a059	SAMPLE	170316-006	88671	Water	18-MAR-2004 04:43	1.0	0.005	5		3		1:HXCS=96.6537
060	076a060	SAMPLE	170316-007	88671	Water	18-MAR-2004 05:12	1.0	0.005	5		3		1:HXCS=76.4840

Stds used: 1=03WS1524 2=03WS1525 3=03WS1526 4=03WS1527 5=03WS1528 6=04WS0470 7=04WS0469 8=04WS0468 9=04WS0467 10=04WS0466 11=04WS0465 12=04WS0464 13=04WS0294 14=04WS0293 15=04WS0292 16=04WS0291 17=04WS0290 18=04WS0452 19=04WS0471 20=04WS0533 21=04WS0534 22=04WS0535 23=04WS0536 24=04WS0537 25=04WS0462 26=04WS0463 27=04WS0459

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 174110421 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 16-MAR-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
061	076a061	SAMPLE	170316-008	88671	Water	18-MAR-2004 05:40	1.0	0.005	5		3	1:HXCS=77.7580	
062	076a062	X	ccv			18-MAR-2004 06:09	1.0					27	
063	076a063	CCV	mo			18-MAR-2004 06:37	1.0	1.0			3	27	

27

Stds used: 1=03WS1524 2=03WS1525 3=03WS1526 4=03WS1527 5=03WS1528 6=04WS0470 7=04WS0469 8=04WS0468 9=04WS0467 10=04WS0466 11=04WS0465 12=04WS0464 13=04WS0294 14=04WS0293 15=04WS0292 16=04WS0291 17=04WS0290 18=04WS0452 19=04WS0471 20=04WS0533 21=04WS0534 22=04WS0535 23=04WS0536 24=04WS0537 25=04WS0462 26=04WS0463 27=04WS0459

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 164283116 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 14-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	196b001	X	ib			14-JUL-2004 14:36	1.0						
002	196b002	ICAL	dsl			14-JUL-2004 15:05	1.0					1	
003	196b003	ICAL	dsl			14-JUL-2004 15:33	1.0					2	
004	196b004	ICAL	dsl			14-JUL-2004 16:02	1.0					3	
005	196b005	ICAL	dsl			14-JUL-2004 16:31	1.0					4	
006	196b006	ICAL	dsl			14-JUL-2004 17:00	1.0					5	
007	196b007	ICAL	dsl			14-JUL-2004 17:29	1.0					6	
008	196b008	ICAL	dsl			14-JUL-2004 17:58	1.0					7	
009	196b009	X	ib			14-JUL-2004 18:28	1.0						
010	196b010	ICAL	mo			14-JUL-2004 18:57	1.0					8	
011	196b011	ICAL	mo			14-JUL-2004 19:25	1.0					9	
012	196b012	ICAL	mo			14-JUL-2004 19:54	1.0					10	
013	196b013	ICAL	mo			14-JUL-2004 20:23	1.0					11	
014	196b014	ICAL	mo			14-JUL-2004 20:52	1.0					12	
015	196b015	ICAL	mo			14-JUL-2004 21:21	1.0					13	
016	196b016	X	ib			14-JUL-2004 21:50	1.0						
017	196b017	ICAL	hex			14-JUL-2004 22:18	1.0					14	
018	196b018	ICAL	hex			14-JUL-2004 22:47	1.0					15	
019	196b019	ICAL	hex			14-JUL-2004 23:16	1.0					16	
020	196b020	ICAL	hex			14-JUL-2004 23:44	1.0					17	
021	196b021	ICAL	hex			15-JUL-2004 00:13	1.0					18	
022	196b022	X	ib			15-JUL-2004 00:42	1.0						
023	196b023	ICAL	jp5			15-JUL-2004 01:10	1.0					19	
024	196b024	ICAL	jp5			15-JUL-2004 01:39	1.0					20	
025	196b025	ICAL	jp5			15-JUL-2004 02:08	1.0					21	
026	196b026	ICAL	jp5			15-JUL-2004 02:36	1.0					22	
027	196b027	ICAL	jp5			15-JUL-2004 03:05	1.0					23	
028	196b028	X	ib			15-JUL-2004 03:34	1.0						
029	196b029	X	c12-16			15-JUL-2004 04:02	1.0						
030	196b030	X	c12-60			15-JUL-2004 04:31	1.0						

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533 15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0572 20=04WS0573 21=04WS0574 22=04WS0575 23=04WS0576 24=04WS0983 25=04WS1144 26=04WS1249 27=04WS0513

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 164283116 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 14-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	196b031	X	c50			15-JUL-2004 04:59	1.0							
032	196b032	X	ib			15-JUL-2004 05:28	1.0							
033	196b033	ICV	dsl			15-JUL-2004 05:57	1.0			3			24	
034	196b034	X	ib			15-JUL-2004 06:25	1.0							
035	196b035	CCV	dsl			15-JUL-2004 06:54	1.0			3			25	
036	196b036	X	ib			15-JUL-2004 07:22	1.0							
037	196b037	CCV	mo			15-JUL-2004 07:51	1.0			3			26	
038	196b038	X	ib			15-JUL-2004 08:20	1.0							
039	196b039	CCV	jp5			15-JUL-2004 08:48	1.0			3			27	

29

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533 15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0572 20=04WS0573 21=04WS0574 22=04WS0575 23=04WS0576 24=04WS0983 25=04WS1144 26=04WS1249 27=04WS0513

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 114295755 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	205a001	X	ib			23-JUL-2004 09:15	1.0					
002	205a002	CCV	dsl			23-JUL-2004 10:51	1.0	1.0		3	1	
003	205a003	CCV	mo			23-JUL-2004 11:19	1.0	1.0	4	3	2	
004	205a004	CCV	jp5			23-JUL-2004 12:01	1.0	1.0		3	3	
005	205a005	X	ib			23-JUL-2004 13:02	1.0					
006	205a006	CCV	dsl			23-JUL-2004 13:31	1.0	1.0		3	4	
007	205a007	CCV	mo			23-JUL-2004 14:00	1.0	1.0	4	3	2	
008	205a008	CCV	jp5			23-JUL-2004 14:29	1.0	1.0		3	3	
009	205a009	SAMPLE	173486-003	93011	Water	23-JUL-2004 15:04	1.0					
010	205a010	SAMPLE	173486-003	93011	Water	23-JUL-2004 15:48	1.0	0.005		3		
011	205a011	CCV	jp5			23-JUL-2004 16:17	1.0	1.0		3	3	
012	205a012	X	ib			23-JUL-2004 17:03	1.0					
013	205a013	ICAL	mo			23-JUL-2004 17:32	1.0	1.0			5	
014	205a014	ICAL	mo			23-JUL-2004 18:01	1.0	1.0			6	
015	205a015	ICAL	mo			23-JUL-2004 18:30	1.0	1.0			7	
016	205a016	ICAL	mo			23-JUL-2004 18:59	1.0	1.0			8	
017	205a017	ICAL	mo			23-JUL-2004 19:28	1.0	1.0			9	
018	205a018	ICAL	mo			23-JUL-2004 19:57	1.0	1.0			10	
019	205a019	X	ib			23-JUL-2004 20:26	1.0					
020	205a020	CCV	mo			23-JUL-2004 20:54	1.0	1.0		3	2	

Stds used: 1=04WS1144 2=04WS1249 3=04WS0513 4=04WS1011 5=04WS1208 6=04WS1209 7=04WS1210 8=04WS1211 9=04WS1212 10=04WS1012

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 114301759 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 27-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	209a001	X	ib			27-JUL-2004 13:19	1.0						
002	209a002	ICAL	dsl			27-JUL-2004 13:47	1.0					1	
003	209a003	ICAL	dsl			27-JUL-2004 14:31	1.0					2	
004	209a004	ICAL	dsl			27-JUL-2004 15:00	1.0					3	
005	209a005	ICAL	dsl			27-JUL-2004 15:28	1.0					4	
006	209a006	ICAL	dsl			27-JUL-2004 15:57	1.0					5	
007	209a007	ICAL	dsl			27-JUL-2004 16:26	1.0					6	
008	209a008	ICAL	dsl			27-JUL-2004 16:55	1.0					6	
009	209a009	X	ib			27-JUL-2004 17:24	1.0						
010	209a010	ICAL	hex			27-JUL-2004 17:53	1.0					7	
011	209a011	ICAL	hex			27-JUL-2004 18:22	1.0					8	
012	209a012	ICAL	hex			27-JUL-2004 18:51	1.0					9	
013	209a013	ICAL	hex			27-JUL-2004 19:20	1.0					10	
014	209a014	ICAL	hex			27-JUL-2004 19:49	1.0					11	
015	209a015	X	ib			27-JUL-2004 20:17	1.0						
016	209a016	ICV	dsl			27-JUL-2004 20:46	1.0					12	
017	209a017	X	ib			27-JUL-2004 21:15	1.0						
018	209a018	X	tankcheck1			27-JUL-2004 21:44	1.0						
019	209a019	X	tankcheck2			27-JUL-2004 22:13	1.0						
020	209a020	CHECK	teh surr			27-JUL-2004 22:42	1.0					13	

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS0533 8=04WS0534 9=04WS0535 10=04WS0536 11=04WS0537 12=04WS0983 13=04WS1409

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 174303334 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	210a001	X	ib			28-JUL-2004 15:34	1.0						
002	210a002	ICAL	dsl			28-JUL-2004 16:02	1.0					1	
003	210a003	ICAL	dsl			28-JUL-2004 16:30	1.0					2	
004	210a004	ICAL	dsl			28-JUL-2004 16:59	1.0					3	
005	210a005	ICAL	dsl			28-JUL-2004 17:27	1.0					4	
006	210a006	ICAL	dsl			28-JUL-2004 17:56	1.0					5	
007	210a007	ICAL	dsl			28-JUL-2004 18:24	1.0					6	
008	210a008	ICAL	dsl			28-JUL-2004 18:52	1.0					7	
009	210a009	X	ib			28-JUL-2004 19:21	1.0						
010	210a010	ICV	dsl			28-JUL-2004 19:49	1.0					8	
011	210a011	X	ib			28-JUL-2004 20:17	1.0						
012	210a012	CCV	dsl			28-JUL-2004 20:45	1.0					9	
013	210a013	CCV	mo			28-JUL-2004 21:13	1.0					10	
014	210a014	X	ib			29-JUL-2004 09:07	1.0						
015	210a015	ICAL	dsl5000			29-JUL-2004 09:35	1.0					7	
016	210a016	X	ib			29-JUL-2004 10:43	1.0						
017	210a017	ICV	dsl			29-JUL-2004 11:17	1.0		3			8	

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS0983 9=04WS1144 10=04WS1249

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 114306371 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 30-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	212a001	X	ib			30-JUL-2004 18:11	1.0						
002	212a002	ICAL	dsl			30-JUL-2004 18:40	1.0					1	
003	212a003	ICAL	dsl			30-JUL-2004 19:09	1.0					2	
004	212a004	ICAL	dsl			30-JUL-2004 19:38	1.0					3	
005	212a005	ICAL	dsl			30-JUL-2004 20:06	1.0					4	
006	212a006	ICAL	dsl			30-JUL-2004 20:35	1.0					5	
007	212a007	ICAL	dsl			30-JUL-2004 21:04	1.0					6	
008	212a008	ICAL	dsl			30-JUL-2004 21:34	1.0					7	
009	212a009	X	ib			30-JUL-2004 22:03	1.0						
010	212a010	ICV	dsl			30-JUL-2004 22:32	1.0		3			8	
011	212a011	X	ib			30-JUL-2004 23:01	1.0						
012	212a012	CCV	dsl			30-JUL-2004 23:30	1.0		3			9	

33

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS0983 9=04WS1410

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 114321683 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 10-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	223a001	X	primer			10-AUG-2004 09:23	1.0						
002	223a002	X	ib			10-AUG-2004 09:52	1.0						
003	223a003	CCV	dsl			10-AUG-2004 10:21	1.0	1.0			3	1	
004	223a004	CCV	mo			10-AUG-2004 10:49	1.0	1.0			3	2	
005	223a005	SAMPLE	173831-001 S	93564	Water	10-AUG-2004 11:20	1.0	0.005			3		
006	223a006	MSS	173862-002	93595	Soil	10-AUG-2004 11:48	5.0	0.1002	6		3		
007	223a007	CCV	dsl			10-AUG-2004 12:49	1.0	1.0			3	3	
008	223a008	CCV	mo			10-AUG-2004 13:18	1.0	1.0			3	2	
009	223a009	BLANK	QC260465	93564	Water	10-AUG-2004 14:11	1.0	0.005	6		3		
010	223a010	MSS	173895-001	93628	Soil	10-AUG-2004 19:53	5.0	0.09954	7	1	3		2:BUNKC:=17463.8
011	223a011	SAMPLE	173895-002	93628	Soil	10-AUG-2004 20:22	1.0	0.0993			3		
012	223a012	SAMPLE	173895-003	93628	Soil	10-AUG-2004 20:50	1.0	0.09934			3		
013	223a013	SAMPLE	173895-004	93628	Soil	10-AUG-2004 21:19	1.0	0.09954			3		
014	223a014	SAMPLE	173895-005	93628	Soil	10-AUG-2004 21:48	1.0	0.1000			3		
015	223a015	X	ccv			10-AUG-2004 22:17	1.0					3	
016	223a016	CCV	dsl			10-AUG-2004 22:46	1.0	1.0			3	3	
017	223a017	CCV	mo			10-AUG-2004 23:15	1.0	1.0			3	2	
018	223a018	CCV	tranfoil			10-AUG-2004 23:44	1.0	1.0			3	4	
019	223a019	BLANK	QC260708	93628	Soil	11-AUG-2004 00:12	1.0	0.09978	6		3		
020	223a020	BLANK	QC260712	93629	Soil	11-AUG-2004 00:41	1.0	0.1008	6		3		
021	223a021	SAMPLE	173868-021	93628	Soil	11-AUG-2004 01:10	1.0	0.1004			3		
022	223a022	SAMPLE	173868-001	93629	Soil	11-AUG-2004 01:39	1.0	0.1001			3		
023	223a023	SAMPLE	173868-013	93628	Soil	11-AUG-2004 02:08	1.0	0.1008			3		
024	223a024	SAMPLE	173868-023	93628	Soil	11-AUG-2004 02:37	1.0	0.1003			3		
025	223a025	SAMPLE	173868-011	93628	Soil	11-AUG-2004 03:06	1.0	0.1001			3		
026	223a026	SAMPLE	173868-007	93629	Soil	11-AUG-2004 03:35	1.0	0.0999			3		
027	223a027	SAMPLE	173868-005	93629	Soil	11-AUG-2004 04:03	1.0	0.1003			3		
028	223a028	SAMPLE	173868-003	93629	Soil	11-AUG-2004 04:32	1.0	0.09905			3		
029	223a029	X	ccv			11-AUG-2004 05:01	1.0					5	
030	223a030	CCV	dsl			11-AUG-2004 05:30	1.0	1.0			3	5	
031	223a031	CCV	mo			11-AUG-2004 05:59	1.0	1.0			3	2	

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1496 5=04WS1277 6=04WS1014

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 114321683 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 10-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	223a032	CCV	tranfoil			11-AUG-2004 06:28	1.0	1.0			3	4	
033	223a033	SAMPLE	173868-017	93628	Soil	11-AUG-2004 06:57	1.0	0.1000			3		
034	223a034	SAMPLE	173868-015	93628	Soil	11-AUG-2004 07:25	1.0	0.09968			3		
035	223a035	SAMPLE	173868-009	93628	Soil	11-AUG-2004 07:54	1.0	0.1008			3		
036	223a036	SAMPLE	173868-019	93628	Soil	11-AUG-2004 08:23	1.0	0.1008			3		
037	223a037	SAMPLE	173868-028	93628	Soil	11-AUG-2004 08:52	1.0	0.1005			3		
038	223a038	SAMPLE	173868-025	93628	Soil	11-AUG-2004 09:20	1.0	0.09917			3		1:BUNKC:=6606.79
039	223a039	SAMPLE	173868-027	93628	Soil	11-AUG-2004 09:49	1.0	0.09919			3		
040	223a040	SAMPLE	173895-006	93628	Soil	11-AUG-2004 10:18	5.0	0.1000			3		1:BUNKC:=11385.5
041	223a041	CCV	dsl			11-AUG-2004 10:47	1.0	1.0			3	1	
042	223a042	CCV	mo			11-AUG-2004 11:17	1.0	1.0			3	2	
043	223a043	CCV	transoil			11-AUG-2004 11:46	1.0	1.0			3	4	
044	223a044	MSS	173895-001	93628	Soil	11-AUG-2004 12:20	3.0	0.09954	10	1	3		5:BUNKC:=27253.4
045	223a045	MSS	173881-004	93629	Soil	11-AUG-2004 12:48	3.0	0.1008	6	1	3		
046	223a046	MSS	173895-001	93628	Soil	11-AUG-2004 13:17	10.0	0.09954	6		3		1:BUNKC:=9107.05
047	223a047	BS	QC260733 S	93634	Water	11-AUG-2004 14:23	1.0	0.005			3		
048	223a048	BSD	QC260734 S	93634	Water	11-AUG-2004 14:52	1.0	0.005			3		
049	223a049	BLANK	QC260732 S	93634	Water	11-AUG-2004 15:21	1.0	0.005	6		3		
050	223a050	SAMPLE	173887-001 S	93634	Water	11-AUG-2004 15:50	1.0	0.005	1		3		7:BUNKC:=45904.0
051	223a051	SAMPLE	173887-001 S	93634	Water	11-AUG-2004 16:22	25.0	0.005			3		1:BUNKC:=5320.05
052	223a052	X	ib			11-AUG-2004 19:25	1.0						
053	223a053	BLANK	QC260732 S	93634	Water	11-AUG-2004 19:54	1.0	0.005	6		3		
054	223a054	SAMPLE	173894-009 S	93634	Water	11-AUG-2004 20:22	1.0	0.005	1		3		
055	223a055	X	ccv			11-AUG-2004 20:51	1.0					3	
056	223a056	CCV	dsl			11-AUG-2004 21:20	1.0	1.0			3	3	
057	223a057	CCV	mo			11-AUG-2004 21:48	1.0	1.0			3	2	
058	223a058	CCV	transoil			11-AUG-2004 22:17	1.0	1.0			3	4	
059	223a059	CCV	hyfl			11-AUG-2004 22:48	1.0	1.0			3	6	
060	223a060	BLANK	QC260890 S	93671	Soil	11-AUG-2004 23:16	1.0	0.1004	4		3		
061	223a061	BLANK	QC260890	93671	Soil	11-AUG-2004 23:45	1.0	0.1004	4		3		
062	223a062	SAMPLE	173894-001 S	93671	Soil	12-AUG-2004 00:14	1.0	0.1006			3		

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1496 5=04WS1277 6=04WS1014

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 114321683 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 10-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	223a063	SAMPLE	173894-004 S	93671	Soil	12-AUG-2004 00:43	10.0	0.1002	3		
064	223a064	SAMPLE	173894-008 S	93671	Soil	12-AUG-2004 01:12	1.0	0.1002	3		
065	223a065	SAMPLE	173868-030	93671	Soil	12-AUG-2004 01:41	1.0	0.09974	3		
066	223a066	SAMPLE	173868-031	93671	Soil	12-AUG-2004 02:10	2.0	0.1003	3		1:BUNKC:=10452.4
067	223a067	SAMPLE	173868-032	93671	Soil	12-AUG-2004 02:39	1.0	0.1003	3		
068	223a068	SAMPLE	173868-033	93671	Soil	12-AUG-2004 03:08	1.0	0.09954	3		
069	223a069	SAMPLE	173868-034	93671	Soil	12-AUG-2004 03:37	1.0	0.1088	3		
070	223a070	X	ccv			12-AUG-2004 04:06	1.0			5	
071	223a071	CCV	dsl			12-AUG-2004 04:34	1.0	1.0	3	5	
072	223a072	CCV	mo			12-AUG-2004 05:03	1.0	1.0	3	2	
073	223a073	CCV	transoil			12-AUG-2004 05:32	1.0	1.0	3	4	1:BUNKC:=5146.79
074	223a074	CCV	hyfl			12-AUG-2004 06:01	1.0	1.0	3	6	

36

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1496 5=04WS1277 6=04WS1014

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 164321871 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 10-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	223b001	X	primer			10-AUG-2004 12:31	1.0						
002	223b002	X	ib			10-AUG-2004 12:59	1.0						
003	223b003	CCV	dsl			10-AUG-2004 13:27	1.0	1.0			3	1	
004	223b004	CCV	mo			10-AUG-2004 13:56	1.0	1.0	1		3	2	
005	223b005	MS	QC260587	93595	Soil	10-AUG-2004 17:16	5.0	0.09938			3		
006	223b006	MSD	QC260588	93595	Soil	10-AUG-2004 17:44	5.0	0.1001			3		
007	223b007	LCS	QC260713	93629	Soil	10-AUG-2004 19:49	1.0	0.1004			3		
008	223b008	LCS	QC260709	93628	Soil	10-AUG-2004 20:17	1.0	0.1002			3		
009	223b009	MS	QC260714	93629	Soil	10-AUG-2004 20:45	1.0	0.1008		2	3		
010	223b010	MSD	QC260715	93629	Soil	10-AUG-2004 21:14	1.0	0.1006		1	3		
011	223b011	X	ccv			10-AUG-2004 21:43	2.0					3	
012	223b012	CCV	dsl			10-AUG-2004 22:11	1.0	1.0			3	3	

37

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 174321682 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 10-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	223a001	X	primer			10-AUG-2004 09:22	1.0						
002	223a002	X	ib			10-AUG-2004 09:51	1.0						
003	223a003	CCV	dsl			10-AUG-2004 10:19	1.0	1.0			3	1	
004	223a004	CCV	mo			10-AUG-2004 10:48	1.0	1.0			3	2	
005	223a005	BS	QC260466 S	93564	Water	10-AUG-2004 12:28	1.0	0.005		1	3		
006	223a006	BSD	QC260467 S	93564	Water	10-AUG-2004 12:56	1.0	0.005		2	3		
007	223a007	BS	QC260466	93564	Water	10-AUG-2004 13:37	1.0	0.005			3		
008	223a008	BSD	QC260467	93564	Water	10-AUG-2004 14:06	1.0	0.005			3		
009	223a009	BS	QC260466 S	93564	Water	10-AUG-2004 16:17	1.0	0.005			3		
010	223a010	BSD	QC260467 S	93564	Water	10-AUG-2004 16:46	1.0	0.005			3		
011	223a011	SAMPLE	173857-002	93629	Soil	10-AUG-2004 19:52	1.0	0.09988			3		
012	223a012	SAMPLE	173857-001	93629	Soil	10-AUG-2004 20:20	1.0	0.1004			3		
013	223a013	SAMPLE	173871-002	93628	Soil	10-AUG-2004 20:49	1.0	0.09917			3		
014	223a014	SAMPLE	173871-006	93628	Soil	10-AUG-2004 21:17	1.0	0.09982			3		
015	223a015	X	ccv			10-AUG-2004 21:46	1.0					3	
016	223a016	CCV	dsl			10-AUG-2004 22:15	1.0	1.0			3	3	
017	223a017	CCV	mo			10-AUG-2004 22:43	1.0	1.0			3	2	
018	223a018	SAMPLE	173881-009	93629	Soil	10-AUG-2004 23:12	1.0	0.09994			3		
019	223a019	SAMPLE	173881-015	93629	Soil	10-AUG-2004 23:40	1.0	0.1005			3		
020	223a020	SAMPLE	173881-008	93629	Soil	11-AUG-2004 00:09	1.0	0.0997			3		
021	223a021	SAMPLE	173881-010	93629	Soil	11-AUG-2004 00:38	1.0	0.101			3		
022	223a022	SAMPLE	173881-003	93629	Soil	11-AUG-2004 01:06	1.0	0.09911			3		
023	223a023	X,MSS	173881-004	93629	Soil	11-AUG-2004 01:35	1.0	0.1008			3		
024	223a024	SAMPLE	173881-014	93629	Soil	11-AUG-2004 02:03	1.0	0.09956			3		
025	223a025	SAMPLE	173881-011	93629	Soil	11-AUG-2004 02:32	1.0	0.1009			3		
026	223a026	SAMPLE	173881-002	93629	Soil	11-AUG-2004 03:01	10.0	0.1008			3		
027	223a027	SAMPLE	173881-005	93629	Soil	11-AUG-2004 03:29	1.0	0.1009			3		
028	223a028	X	ccv			11-AUG-2004 03:58	1.0					4	
029	223a029	CCV	dsl			11-AUG-2004 04:27	1.0	1.0			3	4	
030	223a030	CCV	mo			11-AUG-2004 04:55	1.0	1.0			3	2	
031	223a031	SAMPLE	173881-012	93629	Soil	11-AUG-2004 05:24	2.0	0.1002			3		

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 174321682 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 10-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	223a032	SAMPLE	173881-006	93629	Soil	11-AUG-2004 05:53	2.0	0.1000		3		
033	223a033	SAMPLE	173881-013	93629	Soil	11-AUG-2004 06:21	1.0	0.09915		3		
034	223a034	SAMPLE	173881-007	93629	Soil	11-AUG-2004 06:50	5.0	0.09923		3		
035	223a035	X	ccv			11-AUG-2004 07:19	1.0				1	
036	223a036	CCV	dsl			11-AUG-2004 07:47	1.0	1.0		3	1	
037	223a037	CCV	mo			11-AUG-2004 08:16	1.0	1.0		3	2	

39

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277

SEQUENCE SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Sequence: 164323165 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 11-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	224b001	X	primer			11-AUG-2004 10:05	1.0						
002	224b002	X	ib			11-AUG-2004 10:33	1.0						
003	224b003	ICAL	mo			11-AUG-2004 11:02	1.0	1.0				1	
004	224b004	ICAL	mo			11-AUG-2004 11:30	1.0	1.0				2	
005	224b005	ICAL	mo			11-AUG-2004 11:59	1.0	1.0				3	
006	224b006	ICAL	mo			11-AUG-2004 12:27	1.0	1.0				4	
007	224b007	ICAL	mo			11-AUG-2004 12:56	1.0	1.0				5	
008	224b008	ICAL	mo			11-AUG-2004 13:25	1.0	1.0				6	
009	224b009	X	ib			11-AUG-2004 13:53	1.0						
010	224b010	CCV	mo			11-AUG-2004 14:22	1.0	1.0			3	7	
011	224b011	CCV	dsl			11-AUG-2004 15:36	1.0	1.0			3	8	
012	224b012	MS	QC260714	93629	Soil	11-AUG-2004 19:23	1.0	0.1008	1		3		
013	224b013	MSD	QC260715	93629	Soil	11-AUG-2004 19:51	1.0	0.1006	1		3		
014	224b014	SAMPLE	173892-001 S	93634	Water	11-AUG-2004 20:20	1.0	0.005			3		
015	224b015	SAMPLE	173892-002	93634	Water	11-AUG-2004 20:48	1.0	0.005			3		
016	224b016	SAMPLE	173892-003	93634	Water	11-AUG-2004 21:17	1.0	0.005			3		
017	224b017	SAMPLE	173926-001 S	93671	Soil	11-AUG-2004 21:45	1.0	0.09925			3		
018	224b018	MS	QC260892	93671	Soil	11-AUG-2004 22:14	2.0	0.1004	2		3		
019	224b019	MSD	QC260893	93671	Soil	11-AUG-2004 22:42	2.0	0.1000	2		3		
020	224b020	CCV	mo			11-AUG-2004 23:11	1.0	1.0			3	7	
021	224b021	X	ccv			11-AUG-2004 23:39	1.0					9	
022	224b022	CCV	dsl			12-AUG-2004 00:08	1.0	1.0			3	9	

Stds used: 1=04WS1208 2=04WS1209 3=04WS1210 4=04WS1211 5=04WS1212 6=04WS1012 7=04WS1425 8=04WS1410 9=04WS1324

REPORTING SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
173857-001	GC17A	08/10/04 20:20	1.0	+	+	+	
173857-002	GC17A	08/10/04 19:52	1.0	+	+	+	
QC260712	GC11A	08/11/04 00:41	1.0	+	+	+	
QC260713	GC15B	08/10/04 19:49	1.0	+		+	
QC260714	GC15B	08/10/04 20:45	1.0				
QC260714	GC15B	08/11/04 19:23	1.0	+		+	
QC260715	GC15B	08/10/04 21:14	1.0				
QC260715	GC15B	08/11/04 19:51	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 10-AUG-2004 17:01

Batch Number : 93629
Date Extracted: 10-AUG-2004
Extracted by : Amy Silverberg
Prep Method : SHAKER TABLE

Analysis : TEH
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1409C
Spike #2 ID : 04WS1464A
Spike #3 ID :
SOP Version : TEH1_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173857-001			Treadwell & Rollo	Soil	49.79	g	5	0.100422	1		1	0		TEH		
173857-002			Treadwell & Rollo	Soil	50.06	g	5	0.099880	1		1	0		TEH		
173868-001			TRC Environmental Solutions, I	Soil	49.93	g	5	0.100140	1		1	0		TEH		
173868-003			TRC Environmental Solutions, I	Soil	50.48	g	5	0.099049	1		1	0		TEH		
173868-005			TRC Environmental Solutions, I	Soil	49.84	g	5	0.100321	1		1	0		TEH		
173868-007			TRC Environmental Solutions, I	Soil	50.05	g	5	0.099900	1		1	0		TEH		
173881-002			Blasland, Bouck & Lee	Soil	49.58	g	5	0.100847	1		1	0		TEH		
173881-003			Blasland, Bouck & Lee	Soil	50.45	g	5	0.099108	1		1	0		TEH		
173881-004			Blasland, Bouck & Lee	Soil	49.59	g	5	0.100827	1		1	0		TEH		MSS
173881-005			Blasland, Bouck & Lee	Soil	49.56	g	5	0.100888	1		1	0		TEH		
173881-006			Blasland, Bouck & Lee	Soil	49.98	g	5	0.100040	1		1	0		TEH		
173881-007			Blasland, Bouck & Lee	Soil	50.39	g	5	0.099226	1		1	0		TEH		
173881-008			Blasland, Bouck & Lee	Soil	50.15	g	5	0.099701	1		1	0		TEH		
173881-009			Blasland, Bouck & Lee	Soil	50.03	g	5	0.099940	1		1	0		TEH		
173881-010			Blasland, Bouck & Lee	Soil	49.5	g	5	0.101010	1		1	0		TEH		
173881-011			Blasland, Bouck & Lee	Soil	49.53	g	5	0.100949	1		1	0		TEH		
173881-012			Blasland, Bouck & Lee	Soil	49.91	g	5	0.100180	1		1	0		TEH		
173881-013			Blasland, Bouck & Lee	Soil	50.43	g	5	0.099147	1		1	0		TEH		
173881-014			Blasland, Bouck & Lee	Soil	50.22	g	5	0.099562	1		1	0		TEH		
173881-015			Blasland, Bouck & Lee	Soil	49.77	g	5	0.100462	1		1	0		TEH		
QC260712	MB			Soil	49.61	g	5	0.100786	1		1	0		TEH		
QC260713	LCS			Soil	49.81	g	5	0.100381	1		1	1		TEH		
QC260714	MS	of 173881-004		Soil	49.6	g	5	0.100806	1		1	1		TEH		
QC260715	MSD	of 173881-004		Soil	49.71	g	5	0.100583	1		1	1		TEH		

Prep Chemist: ASilverberg Reviewed By: Jennifer Dell Date: 8/10/04

Relinquished By: ASilverberg Received By: Bryan Hutter Date: 8/10/04

Curtis & Tompkins, Ltd. **TEH 8015 SOIL PREP LOG** BK 1934

LIMS Batch No: 93629
LIMS Analysis TEH
Extracted by: AMS
Date Extracted: 8/10/04

Extraction Method:
☒ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
173857-001	49.79	5.0		
-002	50.06			
173881-002 AMS 8/10	~~29.46~~ 49.58			
-003	~~29.50~~ 50.45			
-004	~~30.35~~ 49.59			MSS
-005	~~29.61~~ 49.56			
-006	~~29.66~~ 49.98			
-007	~~30.19~~ 50.39			
-008	~~30.01~~ 50.15			
-009	~~29.66~~ 50.03			
-010	~~30.24~~ 49.50			
-011 ~~29.70~~ →	~~30.24~~ 49.53			
-012	~~29.67~~ 49.91			
-013	~~29.80~~ 50.43			
-014	~~29.63~~ 50.02			
-015	~~30.14~~ 49.77			
173868-001	49.93			
-003	50.48			
-005	49.84			
-007	50.05			
MB QC260712	49.61			
LCS 13	49.81			
MS 14	49.60			
MSD 15	49.71			
				AMS 8/10/04

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM433104 10	BB/AMS 8/10/04
Samples were dried with CH2Cl2-rinsed granular Na2SO4	BMB 08/10/04 5TBA17H50	
1.0 mL of TEH_SURR surrogate solution was added to all samples	04WS1409C	
1.0 mL of TEH_SP matrix spiking solution was added to all spikes	04WS1464A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	44199	
Acetone	44179	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1100	
taken off shaker table at:	1300	
Extracts filtered through baked, rinsed powdered Na_2SO_4	5TBA17H50	
Concentrated to volumes as noted above	✓	AMS 8/10/04

Extraction Chemist / Date: 8/10/04

Continued from page ___
Continued on page ___

Reviewed by / Date: 8/10/04

100
PROJECT Soil Aliquot

Notebook No. BK 1964

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
MB	49.61	TEH	EM433104 10
LCS BB 8/9/04	49.81		
~~173881~~ MS	Not enough sample		
MSD	for MS/MSD!!		
173881-015 A	49.77		
-014	50.22		
-013	50.43		
12	49.91		
11	49.53		
10	49.50		
9	50.03		
8	50.15		
7	50.39		
6	49.98		
5	49.56		
4	49.75		
3	50.45		
2	49.58		
		8270 Sim	
173881-15	30.14		
14	29.63		
13	29.80		
12	29.87		
11	29.70		
10	30.24		
9	29.66		
8	30.01		
7	30.19		
6	29.66		
5	29.61		
4	30.35		
3	29.50		
2	29.46	MSS	
MB	29.72		EM433104 10
LCS	30.15		
MS	29.59		
MSD	29.94		

Continued on Page

Read and Understood By

Signed: [illegible] Date: 8/9/04

Signed: Date:

PROJECT Soil Aliquot Logbook

Notebook No. BK1979

Continued From Page

Sample ID	weight(g)	ANALYSIS	comments
173857-001 A	49.79g	TEH	
-002 A	50.06g		
173881-002 A	49.58		
-003	50.45		
-004	49.59		MSS
-005	49.56		
-006	49.98		
-007	50.39		
-008	50.15		
-009	50.03		
~~-010~~			AMS 8/10/04
173881-010	49.50		
-011	49.53		
-012	49.91		
-013	50.43		
-014	50.22		
-015	49.77		
MB	49.61		
LCS	49.81		
MS	49.60		173881-004
MSD	49.91		

Continued on Page

Read and Understood By

Signed: [illegible] Date: 8/10/04

Signed: Date:

PROJECT Soil Aliquot Log

Notebook No. 1979

Continued From Page

Sample ID			Weight (g)	Analysis	Comment
173868	-001	A	49.93	TEH	
	-003		50.48		
	-005		49.84		
	-007		50.05		
	-009		49.59		
	-011		49.93		
	-013		49.61		
	-015		50.16		
	-017		49.98		
	-019		49.61		
	-021		49.79		
	-023		49.83		
	-025		50.42		
	-027		50.41		
	-028		49.73		
	-029		49.90		
173871	-002	A	50.42		
	-006		50.09		
173895	-001	A	50.23		MSS
	-002		50.35		
	-003		50.33		
	-004		50.23		
	-005		49.99		
	-006		50.00		
MB			50.11		
LCS			49.88		
MS			50.29		173895-001 A
MSD			50.32		

AMS 8/10/04

Continued on Page

Read and Understood By

Signed: Ahlberg

Date: 8/10/04

Signed

Date

TPH/ Extractables

Soil MDLs (mg/Kg)	**GC_11A**	**GC_13B**	**GC_15B**	**GC_17A**
	4/26/04	4/28/04	4/02/04	3/17/04
Diesel: C10-C24	0.11	0.51	0.40	0.33
	GC_11A	GC_13B	GC_15B	GC_17A
	4/06/04	4/10/04	4/10/04	3/30/04
Motor Oil: C24-C36	2.4	0.65	0.80	0.30

Alcohols	**GC_20a**	**GC_20b**
Soil MDLs (mg/Kg)	7/21/04	7/21/04
Methanol	0.48	0.42
Ethanol	0.45	0.52

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC17A	Samplenum:	173857-001	Cident	: BB3EX108[0.5]
Seqnum	: 174321682012	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 223a012	Batchnum	: 93629	Injected	: 10-AUG-2004 20:20
IDF	: 1.0			Units	: mg/Kg

Prep: 49.79 g --> 5.0 ml = 0.1004 ml/g PDF

Analyte	Calibration	Result	RL	B=???????	Flags
Diesel C12-C24.....	174303334001	2.2	1.0		?B
Motor Oil C24-C36	174110421005	ND	5.0		?B

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	174110421004	5.021	4.925	98	65-135	

?B=can't find method blank

Analyst: SV. Date: 8/11/04 Reviewer: mcu Date: 8/12/04

Page 1 of 1

Software Version: 4.1<2F12>
Date: 8/11/04 08:43 AM
Sample Name : 173857-001,93629
Data File : G:\GC17\CHA\223A012.RAW Date: 8/10/04 08:20 PM
Sequence File: G:\GC17\223.SEQ Cycle: 12 Channel : A
Instrument : GC17 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	106983	4.10	4.1031	1.00	1.00	4.1031
JP5:10-16	106983	5.77	5.7681	1.00	1.00	5.7681
JP8:10-16	106983	5.60	5.5966	1.00	1.00	5.5966
KER:10-16	106983	1.07e-08	1.0698e-08	1.00	1.00	1.0698e-08
DSL:10-20	180943	6.38	6.3775	1.00	1.00	6.3775
DSL:10-22	237615	8.06	8.0646	1.00	1.00	8.0646
DSL:10-24	537728	18.04	18.0358	1.00	1.00	18.0358
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	237615	2.38e-08	2.3761e-08	1.00	1.00	2.3761e-08
DSL:12-22	237615	9.68	9.6794	1.00	1.00	9.6794
DSL:10-28	2305941	77.16	77.1561	1.00	1.00	77.1561
DSL:12-24	537728	21.60	21.5964	1.00	1.00	21.5964
DSL:12-32	2462857	98.36	98.3650	1.00	1.00	98.3650
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	2952053	2.95e-07	2.9521e-07	1.00	1.00	2.9521e-07
HYFL:12-40	2952053	93.46	93.4592	1.00	1.00	93.4592
BUNKC:12-40	2952053	255.47	255.4705	1.00	1.00	255.4705
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	2225242	95.04	95.0443	1.00	1.00	95.0443
MO:20-36	2575993	89.82	89.8175	1.00	1.00	89.8175
MO:22-36	2519322	95.99	95.9947	1.00	1.00	95.9947
MO:24-36	2219209	102.84	102.8408	1.00	1.00	102.8408
BUNKC:12-50	3288158	258.70	258.6972	1.00	1.00	258.6972
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A012P.TX0

Software Version: 4.1<2F12>
Date: 8/10/04 08:40 PM
Sample Name : 173857-001,93629
Data File : G:\GC17\CHA\223A012.RAW Date: 8/10/04 08:20 PM
Sequence File: G:\GC17\223.SEQ Cycle: 12 Channel : A
Instrument : GC17 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1550606	49.04	49.0446			9.079	98.0892

CURTIS & TOMPKINS,LTD. BERKELEY

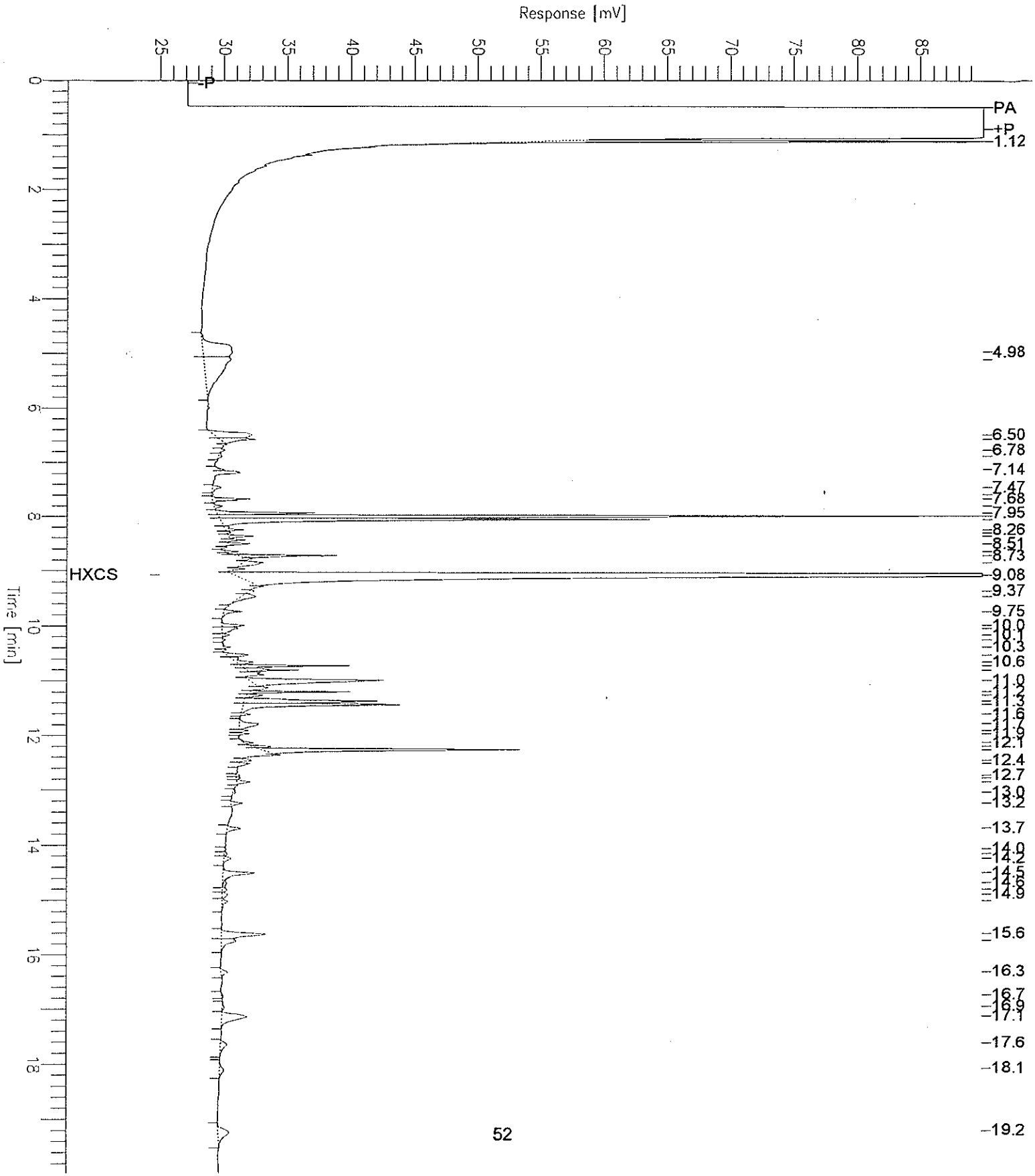
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A012.TX0

Chromatogram

Sample Name : 173857-001,93629
FileName : G:\GC17\CHA\223A012.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 93629 Page 1 of 1
Date : 8/10/04 08:40 PM
Time of Injection: 8/10/04 08:20 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC17A	Samplenum:	173857-002	Cident	: DUP080504A
Seqnum	: 174321682011	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 223a011	Batchnum	: 93629	Injected	: 10-AUG-2004 19:52
IDF	: 1.0			Units	: mg/Kg

Prep: 50.06 g --> 5.0 ml = 0.09988 ml/g PDF

Analyte	Calibration	Result	RL	B=???????	Flags
Diesel C12-C24.....	174303334001	1.8	1.0		?B
Motor Oil C24-C36	174110421005	ND	5.0		?B

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	174110421004	4.994	4.414	88	65-135	

?B=can't find method blank

Analyst: Cr. Date: 8/11/04 Reviewer: mcw Date: 8/12/04

Page 1 of 1

Software Version: 4.1<2F12>
Date: 8/11/04 08:43 AM
Sample Name : 173857-002,93629
Data File : G:\GC17\CHA\223A011.RAW Date: 8/10/04 07:52 PM
Sequence File: G:\GC17\223.SEQ Cycle: 11 Channel : A
Instrument : GC17 Rack/Vial: 0/11 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	204530	7.84	7.8443	1.00	1.00	7.8443
JP5:10-16	204530	11.03	11.0275	1.00	1.00	11.0275
JP8:10-16	204530	10.70	10.6996	1.00	1.00	10.6996
KER:10-16	204530	2.05e-08	2.0453e-08	1.00	1.00	2.0453e-08
DSL:10-20	323995	11.42	11.4195	1.00	1.00	11.4195
DSL:10-22	371409	12.61	12.6055	1.00	1.00	12.6055
DSL:10-24	506191	16.98	16.9780	1.00	1.00	16.9780
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	301626	3.02e-08	3.0163e-08	1.00	1.00	3.0163e-08
DSL:12-22	301626	12.29	12.2869	1.00	1.00	12.2869
DSL:10-28	2072193	69.33	69.3350	1.00	1.00	69.3350
DSL:12-24	436408	17.53	17.5271	1.00	1.00	17.5271
DSL:12-32	2097483	83.77	83.7722	1.00	1.00	83.7722
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	2529853	2.53e-07	2.5299e-07	1.00	1.00	2.5299e-07
HYFL:12-40	2529853	80.09	80.0927	1.00	1.00	80.0927
BUNKC:12-40	2529853	218.93	218.9333	1.00	1.00	218.9333
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1795857	76.70	76.7045	1.00	1.00	76.7045
MO:20-36	2082063	72.60	72.5956	1.00	1.00	72.5956
MO:22-36	2034650	77.53	77.5271	1.00	1.00	77.5271
MO:24-36	1899867	88.04	88.0421	1.00	1.00	88.0421
BUNKC:12-50	2783622	219.00	219.0026	1.00	1.00	219.0026
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A011P.TX0

Software Version: 4.1<2F12>
Date: 8/10/04 08:12 PM
Sample Name : 173857-002,93629
Data File : G:\GC17\CHA\223A011.RAW Date: 8/10/04 07:52 PM
Sequence File: G:\GC17\223.SEQ Cycle: 11 Channel : A
Instrument : GC17 Rack/Vial: 0/11 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1397121	44.19	44.1900			9.084	88.3800

CURTIS & TOMPKINS,LTD. BERKELEY

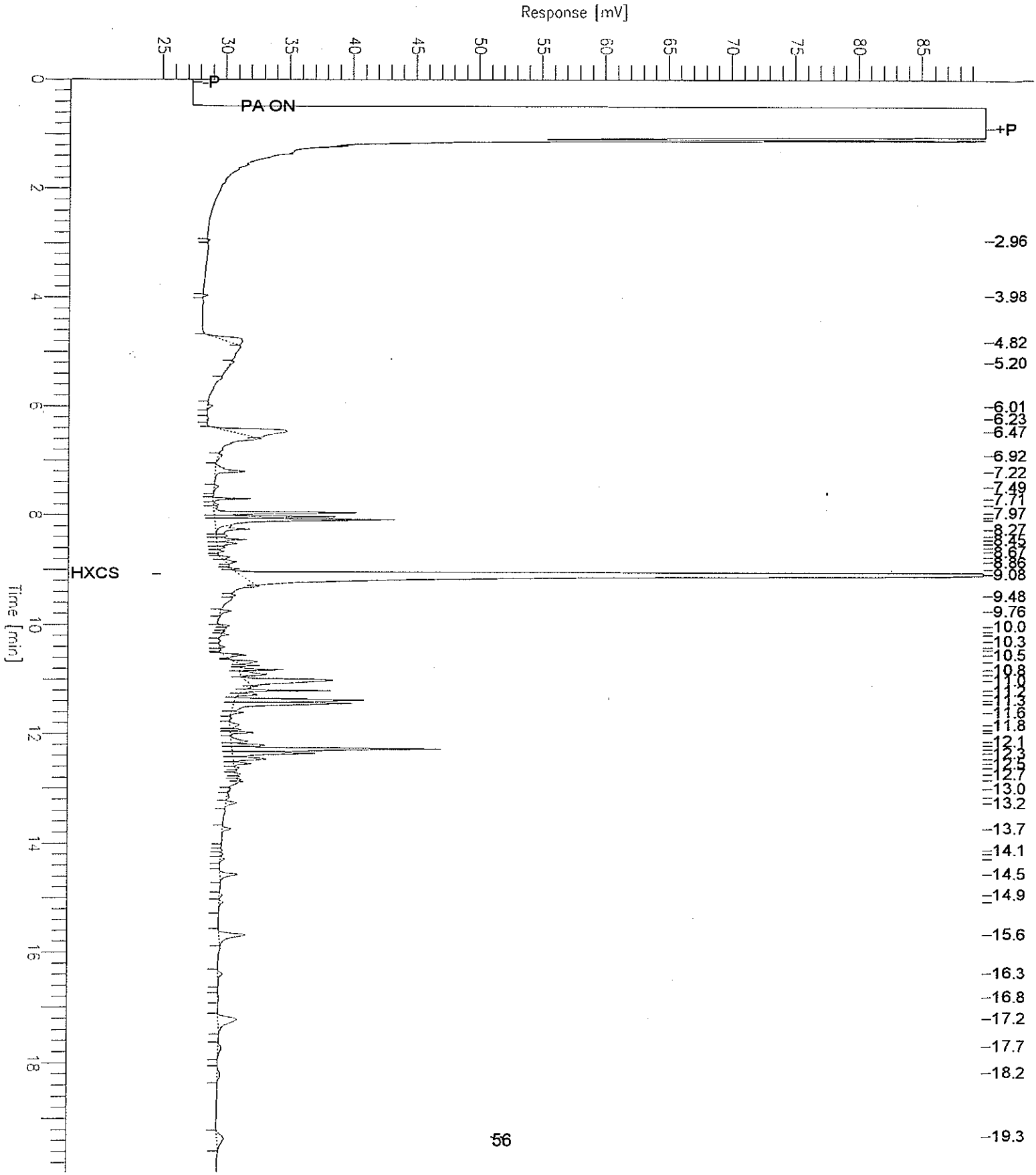
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A011.TX0

Chromatogram

Sample Name : 173857-002,93629
FileName : G:\GC17\CHA\223A011.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 93629 Page 1 of 1
Date : 8/10/04 08:12 PM
Time of Injection: 8/10/04 07:52 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



QC RAW DATA

BLANK USER REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC11A	Samplenum:	QC260712	Cident	:
Seqnum	: 114321683020	Matrix	: Soil	Acctnum	: TREADWELL
Filename	: 223a020	Batchnum	: 93629	Injected	: 11-AUG-2004 00:41
IDF	: 1.0			Units	: mg/Kg

Prep: 49.61 g --> 5.0 ml = 0.1008 ml/g PDF

Analyte	Calibration	Result	RL	Flags
Diesel C12-C24	114306371001	ND	1.0	u
Motor Oil C24-C36	114295755001	ND	5.0	u

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	114301759001	5.039	5.528	110	65-135	u

u=use

Software Version: 4.1<2F12>
Date: 8/11/04 08:16 AM
Sample Name : mb,qc260712,93629
Data File : G:\GC11\CHA\223A020.RAW Date: 8/11/04 12:41 AM
Sequence File: G:\GC11\223.SEQ Cycle: 20 Channel : A
Instrument : GC11 Rack/Vial: 0/20 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	51717	1.55	1.5465	1.00	1.00	1.5465
JP5:10-16	51717	2.48	2.4788	1.00	1.00	2.4788
JETA:10-16	51717	2.67	2.6674	1.00	1.00	2.6674
JP8:10-16	51717	2.72	2.7223	1.00	1.00	2.7223
DSL:10-22	78992	3.02	3.0201	1.00	1.00	3.0201
GAIAFP:10-24	81458	1.92	1.9243	1.00	1.00	1.9243
DSL:10-24	81458	3.10	3.0951	1.00	1.00	3.0951
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	27275	1.24	1.2375	1.00	1.00	1.2375
DSL:10-28	1616503	61.30	61.3015	1.00	1.00	61.3015
DSL:12-24	29741	1.34	1.3395	1.00	1.00	1.3395
RRFPLH:16-24	29741	4.30	4.3042	1.00	1.00	4.3042
CRUDE:10-40	1659347	1.66	1.6593	1.00	1.00	1.6593
TRIMSOL:12-36	1584645	64.40	64.4021	1.00	1.00	64.4021
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	1607630	81.07	81.0662	1.00	1.00	81.0662
BUNKC:12-40	1607630	208.07	208.0725	1.00	1.00	208.0725
TRANSOIL:12-40	1607630	34.50	34.4976	1.00	1.00	34.4976
MO:22-32	1550034	78.35	78.3516	1.00	1.00	78.3516
MO:20-36	1560506	63.61	63.6056	1.00	1.00	63.6056
MO:22-36	1557370	71.09	71.0937	1.00	1.00	71.0937
HYFL:24-36	1554904	108.80	108.8010	1.00	1.00	108.8010
TPHHF:24-36	1554904	1.55e-07	1.5549e-07	1.00	1.00	1.5549e-07
MO:24-36	1554904	88.64	88.6384	1.00	1.00	88.6384
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

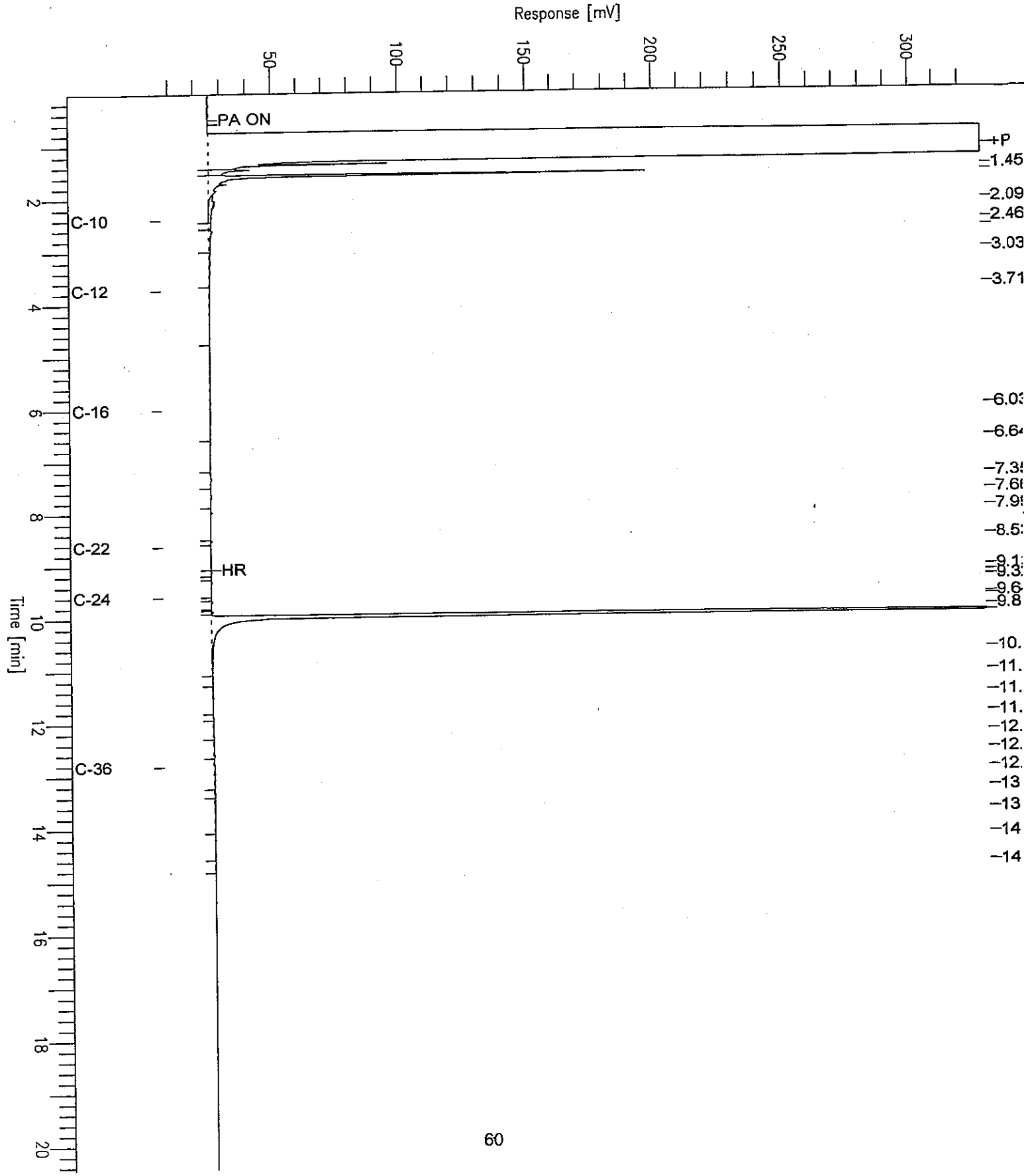
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A020P.TX0

Chromatogram

Sample Name : mb,qc260712,93629
FileName : G:\GC11\CHA\223A020.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min
End Time : 20.45 min
Scale Factor: 0.0
Plot Offset: 7 mV

Sample #: 93629
Date : 8/11/04 08:16 AM
Time of Injection: 8/11/04 12:41 AM
Low Point : 7.13 mV
High Point : 328.57 mV
Plot Scale: 321.4 mV



Software Version: 4.1<2F12>
Date: 8/11/04 01:02 AM
Sample Name : mb,qc260712,93629
Data File : G:\GC11\CHA\223A020.RAW Date: 8/11/04 12:41 AM
Sequence File: G:\GC11\223.SEQ Cycle: 20 Channel : A
Instrument : GC11 Rack/Vial: 0/20 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1529387	54.85	54.8530			10.000	109.7060

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A020.TXO

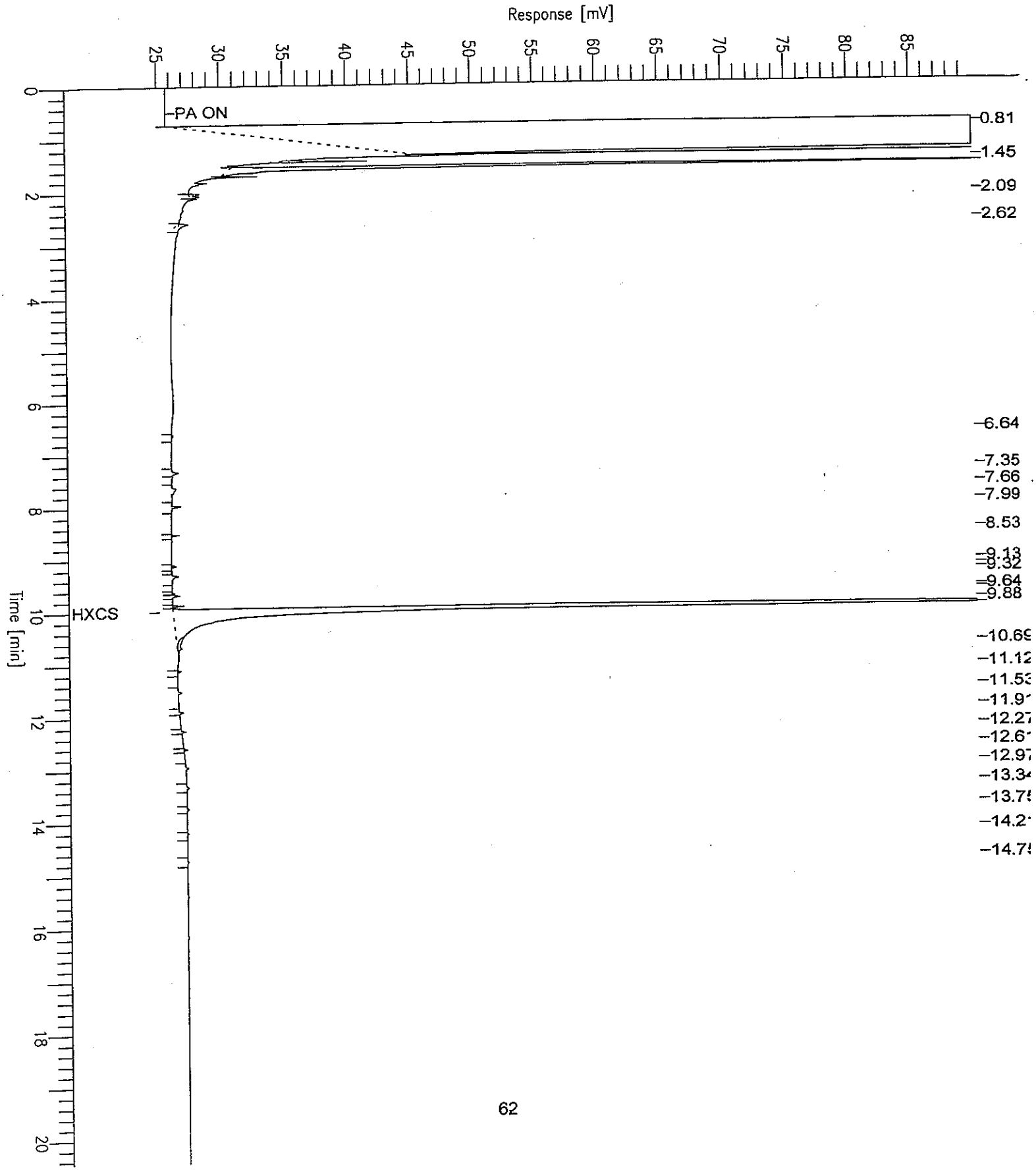
Chromatogram

Sample Name : mb,qc260712,93629
FileName : G:\GC11\CHA\223A020.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 93629
Date : 8/11/04 01:02 AM
Time of Injection: 8/11/04 12:41 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



SPIKE USER REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories
EPA 8015B

Instid : GC15B
Seqnum : 164321871007
Filename : 223b007
IDF : 1.0
Run type : LCS
Samplenum: QC260713
Matrix : Soil
Batchnum : 93629
Inj : 10-AUG-2004 19:49

LCS: 49.81 g --> 5.0 ml = 0.1004 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Diesel C12-C24	50.19	44.31	88	65-135	mg/Kg	u
Hexacosane	5.019	4.528	90	65-135	mg/Kg	u

u=use

Software Version: 4.1<2F12>
Date: 8/11/04 08:36 AM
Sample Name : lcs,qc260713,93629
Data File : G:\GC15\CHB\223B007.RAW Date: 8/10/04 07:49 PM
Sequence File: G:\GC15\223.SEQ Cycle: 7 Channel : B
Instrument : GC15 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.532	*VV	16092	0.02	1.0000	0.0161	1.0000	0.0161
JETA:10-16	4.305		6243377	346.81	1.0000	346.8107	1.0000	346.8107
JP8:10-16	4.305		6243377	400.47	1.0000	400.4679	1.0000	400.4679
JP5:10-16	4.305		6243377	308.88	1.0000	308.8815	1.0000	308.8815
KER:10-16	4.305		6243377	6.24e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.192		8777895	428.81	1.0000	428.8092	1.0000	428.8092
DSL:10-22	5.576		9015881	429.86	1.0000	429.8646	1.0000	429.8646
DSL:10-24	5.931		9075131	429.67	1.0000	429.6717	1.0000	429.6717
GAIAFP:10-24	5.931		9075131	9.08e-05	1.0000	0.0001	1.0000	0.0001
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		7877641	441.69	1.0000	441.6905	1.0000	441.6905
TROIL:12-22	6.226		7877641	7.88e-06	1.0000	7.8776e-06	1.0000	7.8776e-06
DSL:10-28	6.562		10146339	479.66	1.0000	479.6639	1.0000	479.6639
DSL:12-24	6.581		7936891	441.37	1.0000	441.3670	1.0000	441.3670
DSL:12-32	7.763		9010552	500.15	1.0000	500.1545	1.0000	500.1545
CRUDE:10-40	8.255		10152986	357.12	1.0000	357.1219	1.0000	357.1219
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		9014746	9.01e-06	1.0000	9.0147e-06	1.0000	9.0147e-06
HYFL:12-40	8.905		9014746	9.01e-05	1.0000	0.0001	1.0000	0.0001
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		1132911	75.17	1.0000	75.1690	1.0000	75.1690
MO:20-36	10.262		1373882	77.36	1.0000	77.3634	1.0000	77.3634
MO:22-36	10.646		1135896	72.57	1.0000	72.5748	1.0000	72.5748
MO:24-36	11.002		1076646	88.33	1.0000	88.3260	1.0000	88.3260
TPHHF:24-36	11.002		1076646	1.08e-06	1.0000	1.0766e-06	1.0000	1.0766e-06
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			137761161					4877.9528

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\223B007P.TXO

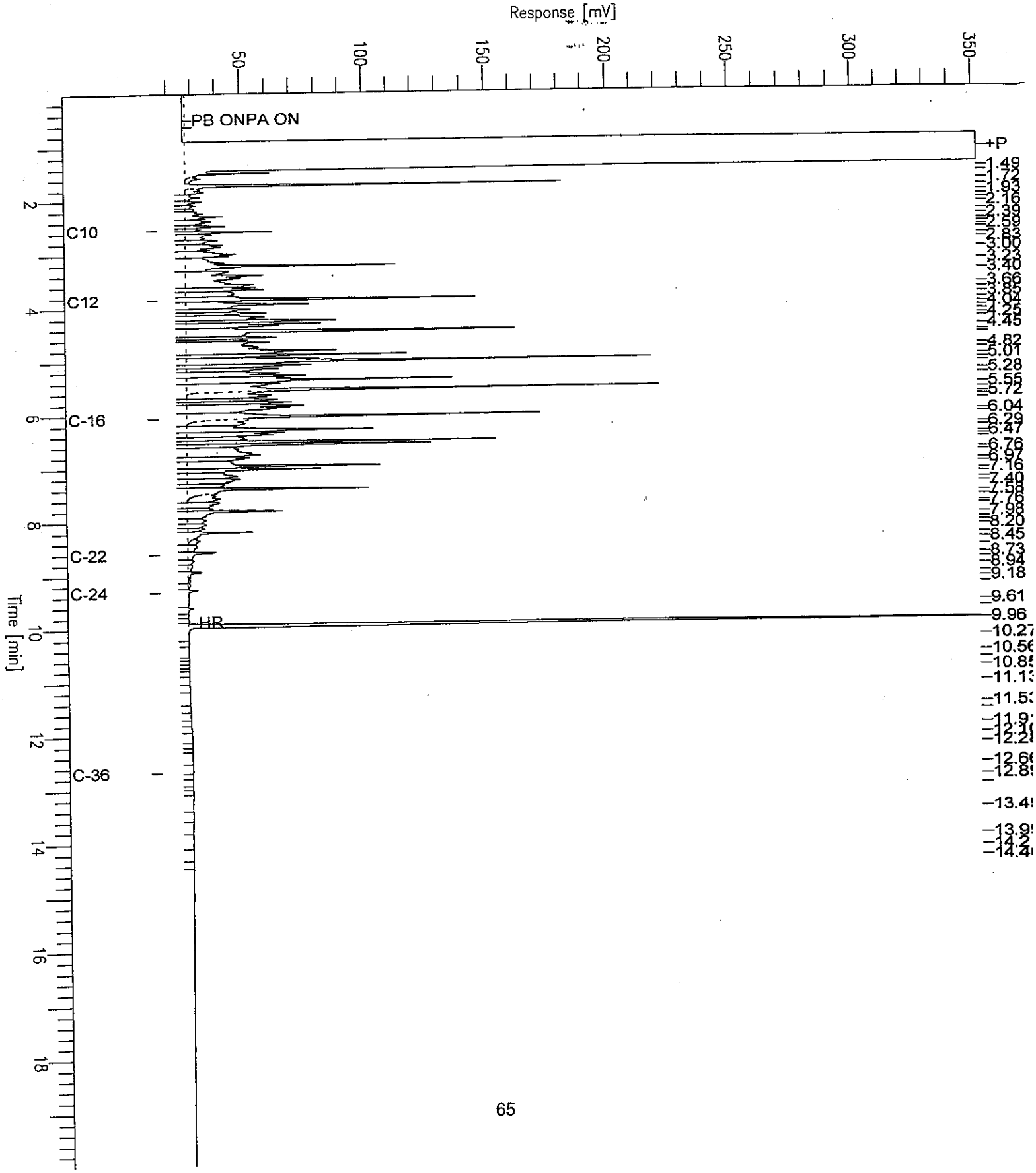
Chromatogram

Sample Name : lcs,qc260713,93629
FileName : G:\GC15\CHB\223B007.RAW
Method : BTEH221S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 16 mV

Sample #: 93629
Date : 8/11/04 08:36 AM
Time of Injection: 8/10/04 07:49 PM
Low Point : 15.76 mV
Plot Scale: 336.1 mV

High Point : 351.89 mV



Software Version: 4.1<2F12>
Date: 8/10/04 08:09 PM
Sample Name : lcs,qc260713,93629
Data File : G:\GC15\CHB\223B007.RAW Date: 8/10/04 07:49 PM
Sequence File: G:\GC15\223.SEQ Cycle: 7 Channel : B
Instrument : GC15 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1064840	45.10	45.1041			9.958	90.2081	1.0000
		45.10						

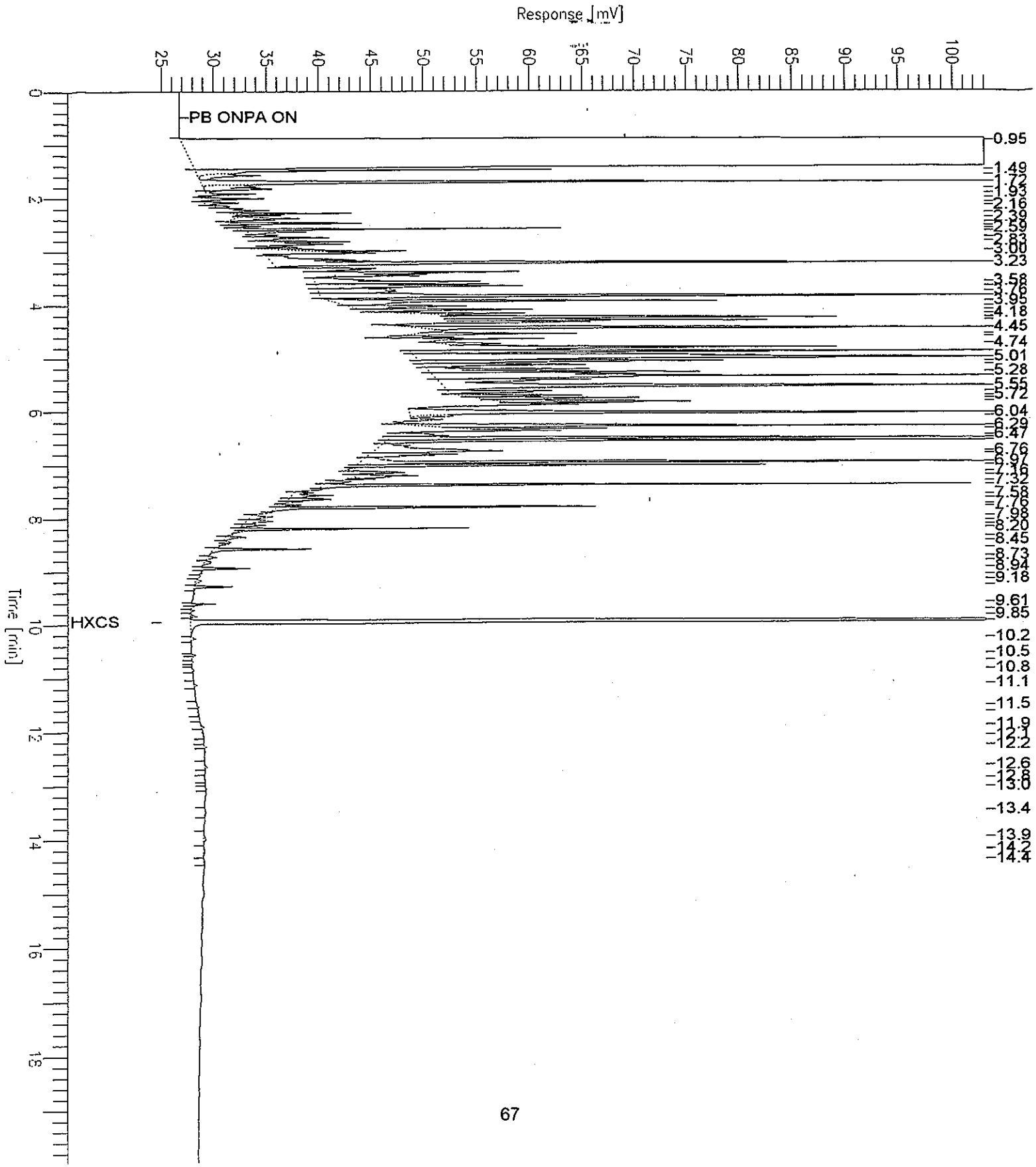
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\223B007.TXO

GC15 Channel B Surrogate

Sample Name : lcs,gc260713,93629
FileName : G:\GC15\CHB\223B007.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 93629 Page 1 of 1
Date : 8/10/04 08:09 PM
Time of Injection: 8/10/04 07:49 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



SPIKE USER REPORT FOR 173857 TEH Soil
Curtis & Tompkins Laboratories
EPA 8015B

Instid : GC11A	Instid : GC15B	Instid : GC15B
Seqnum : 114321683045	Seqnum : 164323165012	Seqnum : 164323165013
Filename : 223a045	Filename : 224b012	Filename : 224b013
IDF : 3.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173881-004	Samplenum: QC260714	Samplenum: QC260715
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 93629	Batchnum : 93629	Batchnum : 93629
Inj : 11-AUG-2004 12:48	Inj : 11-AUG-2004 19:23	Inj : 11-AUG-2004 19:51

MSS: 49.59 g --> 5.0 ml = 0.1008 ml/g PDF
MS: 49.60 g --> 5.0 ml = 0.1008 ml/g PDF
MSD: 49.71 g --> 5.0 ml = 0.1006 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Diesel C12-C24	65.63	50.29	80.33	29*	90.36	49*	65-135	mg/Kg	12	35	u
Hexacosane		5.029	4.113	82	5.742	114	65-135	mg/Kg	--		u

u=use

Software Version: 4.1<2F12>
Date: 8/12/04 08:36 AM
Sample Name : ms,qc260714,93629
Data File : G:\GC15\CHB\224B012.RAW Date: 8/11/04 07:23 PM
Sequence File: G:\GC15\224.SEQ Cycle: 12 Channel : B
Instrument : GC15 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.305		8257424	458.69	1.0000	458.6882	1.0000	458.6882
JP8:10-16	4.305		8257424	529.65	1.0000	529.6545	1.0000	529.6545
JP5:10-16	4.305		8257424	408.52	1.0000	408.5234	1.0000	408.5234
KER:10-16	4.305		8257424	8.26e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.192		12182926	595.15	1.0000	595.1484	1.0000	595.1484
DSL:10-22	5.576		13867377	661.18	1.0000	661.1771	1.0000	661.1771
DSL:10-24	5.931		16401095	776.53	1.0000	776.5273	1.0000	776.5273
GAIAFP:10-24	5.931		16401095	1.64e-04	1.0000	0.0002	1.0000	0.0002
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		11795185	661.34	1.0000	661.3427	1.0000	661.3427
TROIL:12-22	6.226		11795185	1.18e-05	1.0000	0.0000	1.0000	0.0000
DSL:10-28	6.562		29233947	1382.02	1.0000	1382.0225	1.0000	1382.0225
DSL:12-24	6.581		14328903	796.82	1.0000	796.8241	1.0000	796.8241
DSL:12-32	7.763		28678047	1591.85	1.0000	1591.8508	1.0000	1591.8508
CRUDE:10-40	8.255		31819110	1119.21	1.0000	1119.2077	1.0000	1119.2077
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		29746918	2.97e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.905		29746918	2.97e-04	1.0000	0.0003	1.0000	0.0003
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		16882863	1089.46	1.0000	1089.4594	1.0000	1089.4594
MO:20-36	10.262		19310585	1036.59	1.0000	1036.5948	1.0000	1036.5948
MO:22-36	10.646		17626134	1047.07	1.0000	1047.0733	1.0000	1047.0733
TPHHF:24-36	11.002		15092415	1.51e-05	1.0000	0.0000	1.0000	0.0000
MO:24-36	11.002		15092415	1136.20	1.0000	1136.2004	1.0000	1136.2004
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			363030814					13290.2950

CURTIS & TOMPKINS,LTD. BERKELEY

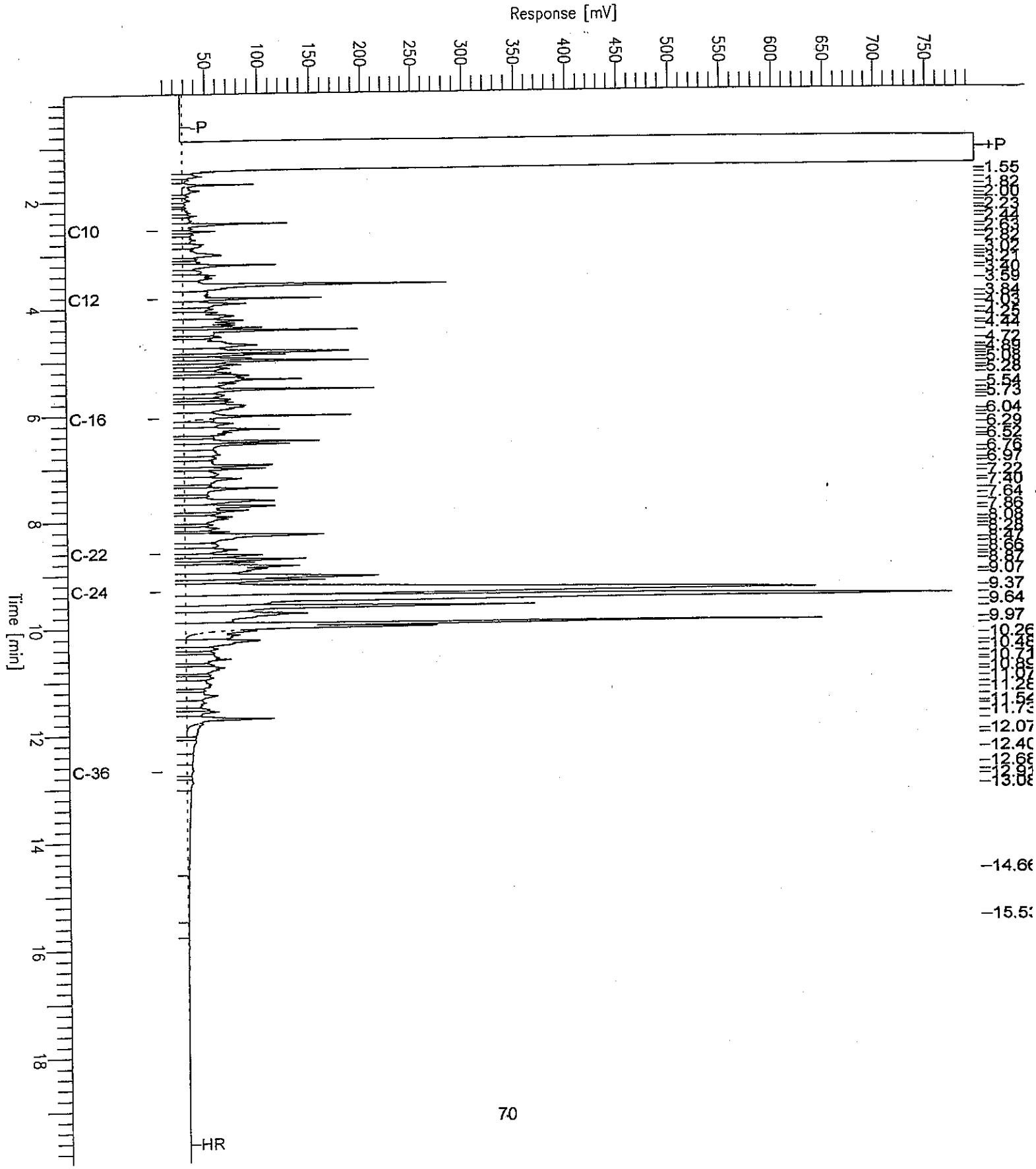
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\224B012P.TX0

Chromatogram

Sample Name : ms,qc260714,93629
FileName : G:\GC15\CHB\224B012.RAW
Method : BTEH224S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 4 mV

Sample #: 93629
Date : 8/12/04 08:36 AM
Time of Injection: 8/11/04 07:23 PM
Low Point : 4.40 mV High Point : 797.39 mV
Plot Scale: 793.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 07:43 PM
Sample Name : ms,qc260714,93629
Data File : G:\GC15\CHB\224B012.RAW Date: 8/11/04 07:23 PM
Sequence File: G:\GC15\224.SEQ Cycle: 12 Channel : B
Instrument : GC15 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	963189	40.80	40.7984		9.969	81.5967	1.0000
		40.80					

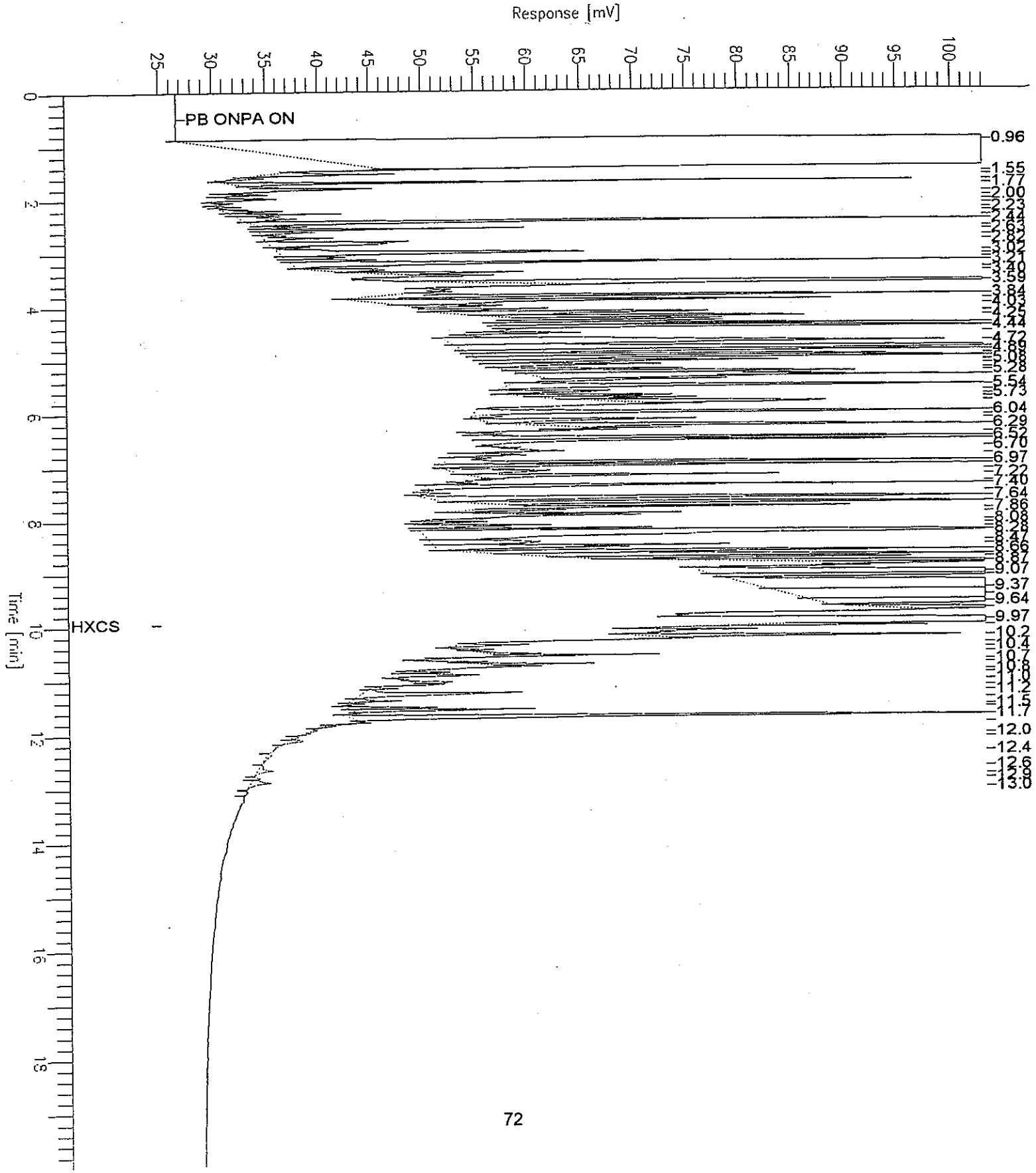
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\224B012.TXO

GC15 Channel B Surrogate

Sample Name : ms,qc260714,93629
FileName : G:\GC15\CHB\224B012.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 93629 Page 1 of 1
Date : 8/11/04 07:43 PM
Time of Injection: 8/11/04 07:23 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 8/12/04 08:37 AM
Sample Name : msd,qc260715,93629
Data File : G:\GC15\CHB\224B013.RAW Date: 8/11/04 07:51 PM
Sequence File: G:\GC15\224.SEQ Cycle: 13 Channel : B
Instrument : GC15 Rack/Vial: 0/13 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.305		9250046	513.83	1.0000	513.8269	1.0000	513.8269
JP8:10-16	4.305		9250046	593.32	1.0000	593.3241	1.0000	593.3241
JP5:10-16	4.305		9250046	457.63	1.0000	457.6318	1.0000	457.6318
KER:10-16	4.305		9250046	9.25e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.192		13774069	672.88	1.0000	672.8774	1.0000	672.8774
DSL:10-22	5.576		15530737	740.48	1.0000	740.4838	1.0000	740.4838
DSL:10-24	5.931		18476365	874.78	1.0000	874.7831	1.0000	874.7831
GAIAFP:10-24	5.931		18476365	1.85e-04	1.0000	0.0002	1.0000	0.0002
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		13209820	740.66	1.0000	740.6597	1.0000	740.6597
TROIL:12-22	6.226		13209820	1.32e-05	1.0000	0.0000	1.0000	0.0000
DSL:10-28	6.562		33245856	1571.68	1.0000	1571.6838	1.0000	1571.6838
DSL:12-24	6.581		16155448	898.40	1.0000	898.3975	1.0000	898.3975
DSL:12-32	7.763		32473680	1802.54	1.0000	1802.5375	1.0000	1802.5375
CRUDE:10-40	8.255		35827898	1260.21	1.0000	1260.2130	1.0000	1260.2130
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		33506981	3.35e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.905		33506981	3.35e-04	1.0000	0.0003	1.0000	0.0003
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		19263860	1243.11	1.0000	1243.1063	1.0000	1243.1063
MO:20-36	10.262		21772476	1168.75	1.0000	1168.7495	1.0000	1168.7495
MO:22-36	10.646		20015809	1189.03	1.0000	1189.0310	1.0000	1189.0310
TPHHF:24-36	11.002		17070181	1.71e-05	1.0000	0.0000	1.0000	0.0000
MO:24-36	11.002		17070181	1285.09	1.0000	1285.0923	1.0000	1285.0923
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			409586713					15012.3983

CURTIS & TOMPKINS,LTD. BERKELEY

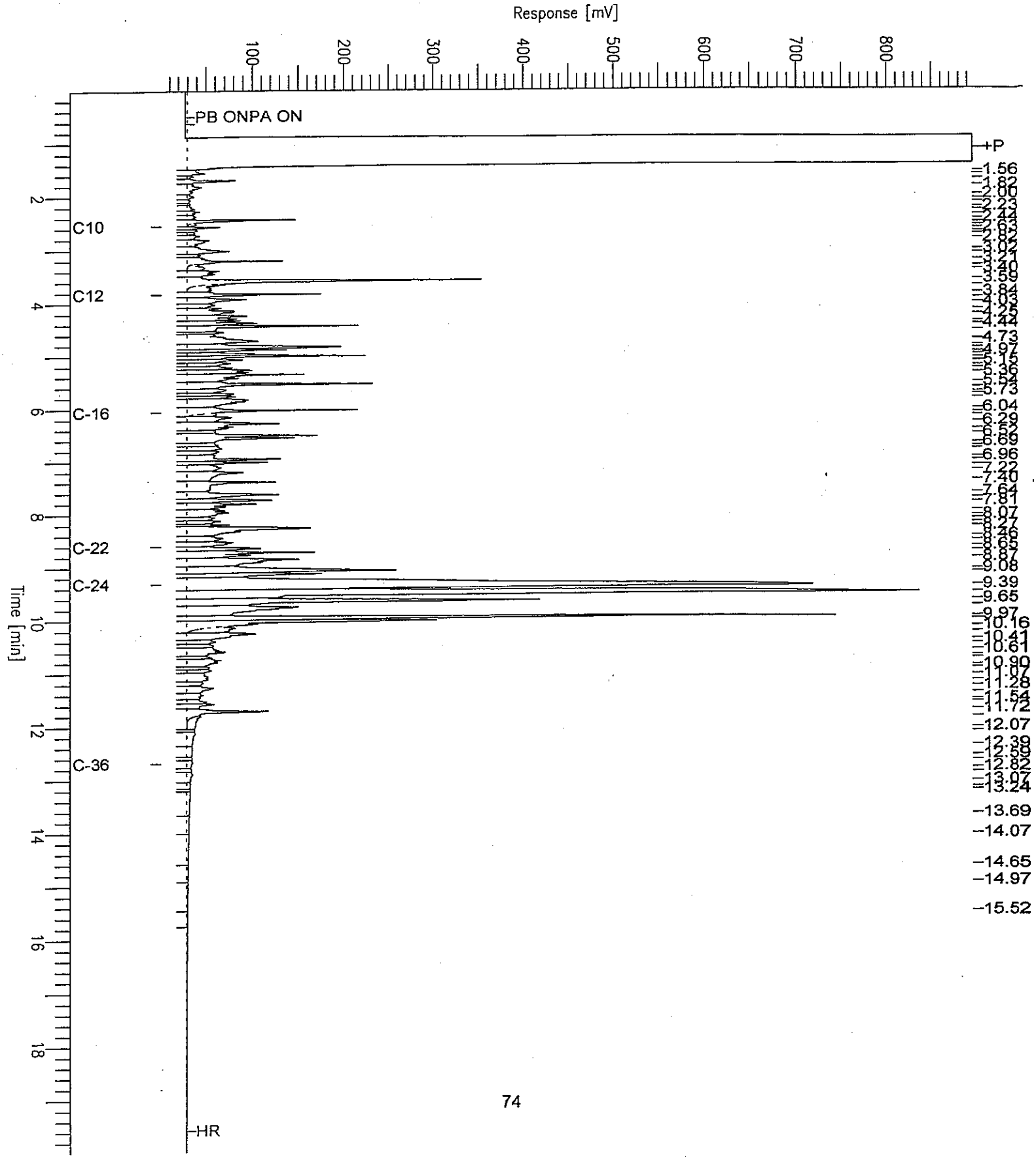
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\224B013P.TXO

Chromatogram

Sample Name : msd,qc260715,93629
FileName : G:\GC15\CHB\224B013.RAW
Method : BTEH224S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 1 mV

Sample #: 93629
Date : 8/12/04 08:37 AM
Time of Injection: 8/11/04 07:51 PM
Low Point : 0.79 mV High Point : 895.69 mV
Plot Scale: 894.9 mV



Software Version: 4.1<2F12>
Date: 8/11/04 08:11 PM
Sample Name : msd,qc260715,93629
Data File : G:\GC15\CHB\224B013.RAW Date: 8/11/04 07:51 PM
Sequence File: G:\GC15\224.SEQ Cycle: 13 Channel : B
Instrument : GC15 Rack/Vial: 0/13 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1347687	57.08	57.0848		9.970	114.1696	1.0000
		57.08					

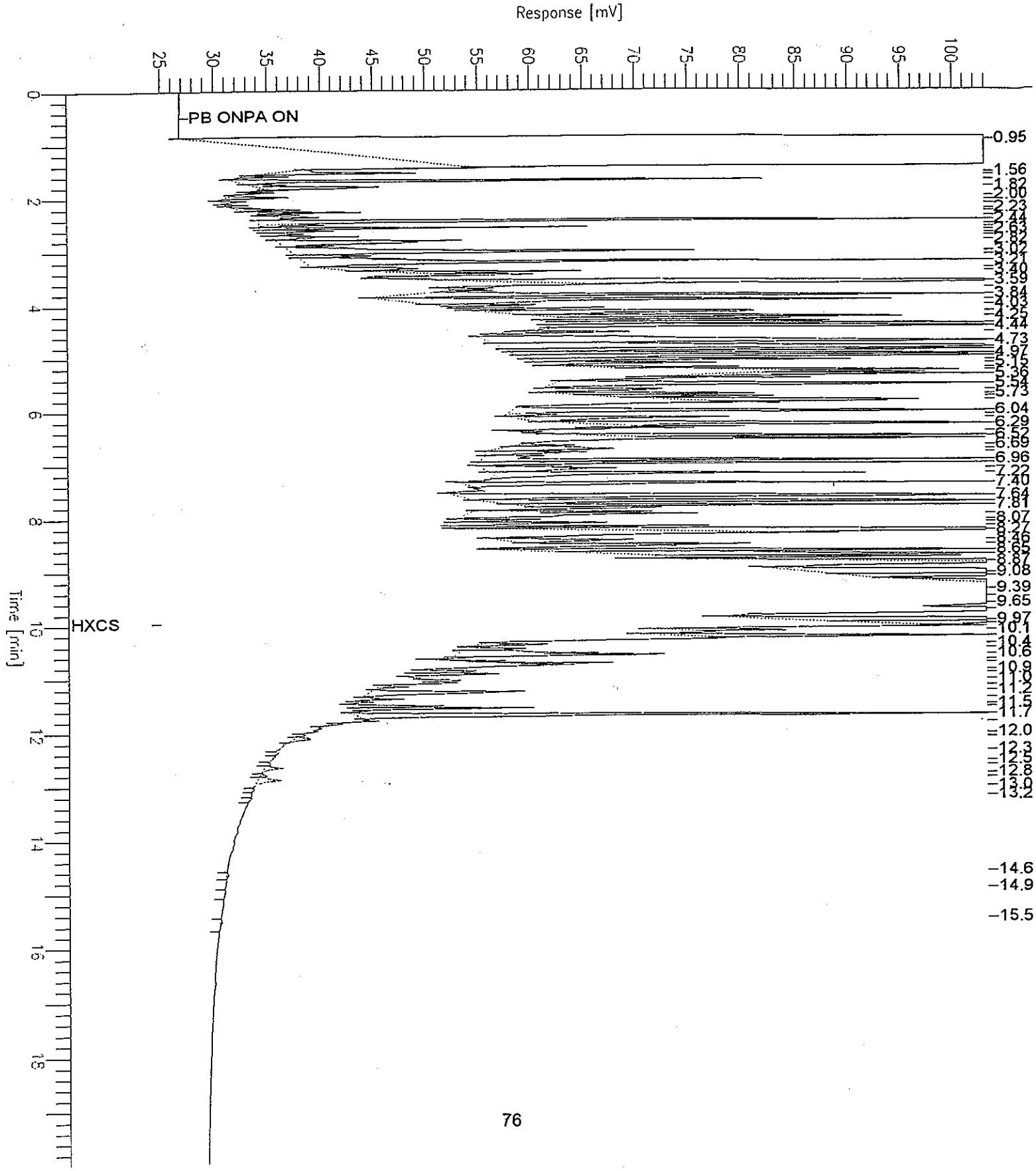
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\224B013.TX0

GC15 Channel B Surrogate

Sample Name : msd,gc260715,93629
FileName : G:\GC15\CHB\224B013.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 93629 Page 1 of 1
Date : 8/11/04 08:11 PM
Time of Injection: 8/11/04 07:51 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 01:13 PM
Sample Name : 173881-004,93629
Data File : G:\GC11\CHA\223A045.RAW Date: 8/11/04 12:48 PM
Sequence File: G:\GC11\223.SEQ Cycle: 45 Channel : A
Instrument : GC11 Rack/Vial: 0/45 Operator:
Sample Amount : 1.0000 Dilution Factor : 3.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area (µV·s)	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	3.00	1.00	0.0000
C-12	0	0.00	0.0000	3.00	1.00	0.0000
KER:10-16	759573	22.71	68.1420	3.00	1.00	68.1420
JP5:10-16	759573	36.41	109.2180	3.00	1.00	109.2180
JETA:10-16	759573	39.18	117.5264	3.00	1.00	117.5264
JP8:10-16	759573	39.98	119.9484	3.00	1.00	119.9484
DSL:10-22	1928634	73.74	221.2096	3.00	1.00	221.2096
GAIAFP:10-24	5079060	119.98	359.9530	3.00	1.00	359.9530
DSL:10-24	5079060	192.98	578.9508	3.00	1.00	578.9508
C-16	0	0.00	0.0000	3.00	1.00	0.0000
DSL:12-22	1667124	75.64	226.9148	3.00	1.00	226.9148
DSL:10-28	9098098	345.02	1035.0615	3.00	1.00	1035.0615
DSL:12-24	4817550	216.97	650.9144	3.00	1.00	650.9144
RRFPLH:16-24	4319488	625.14	1875.4073	3.00	1.00	1875.4073
CRUDE:10-40	10697863	10.70	32.0936	3.00	1.00	32.0936
TRIMSOL:12-36	10133375	411.83	1235.5022	3.00	1.00	1235.5022
C-22	0	0.00	0.0000	3.00	1.00	0.0000
HYFL:12-40	10436353	526.26	1578.7874	3.00	1.00	1578.7874
BUNKC:12-40	10436353	1350.76	4052.2726	3.00	1.00	4052.2726
TRANSOIL:12-40	10436353	362.67	1087.9967	3.00	1.00	1087.9967
MO:22-32	8081030	408.48	1225.4480	3.00	1.00	1225.4480
MO:20-36	9046701	368.74	1106.2201	3.00	1.00	1106.2201
MO:22-36	8466251	386.48	1159.4485	3.00	1.00	1159.4485
HYFL:24-36	5315825	371.96	1115.8891	3.00	1.00	1115.8891
TPHHF:24-36	5315825	5.32e-07	1.5947e-06	3.00	1.00	1.5947e-06
MO:24-36	5315825	303.03	909.0966	3.00	1.00	909.0966
C-36	0	0.00	0.0000	3.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A045P.TXO

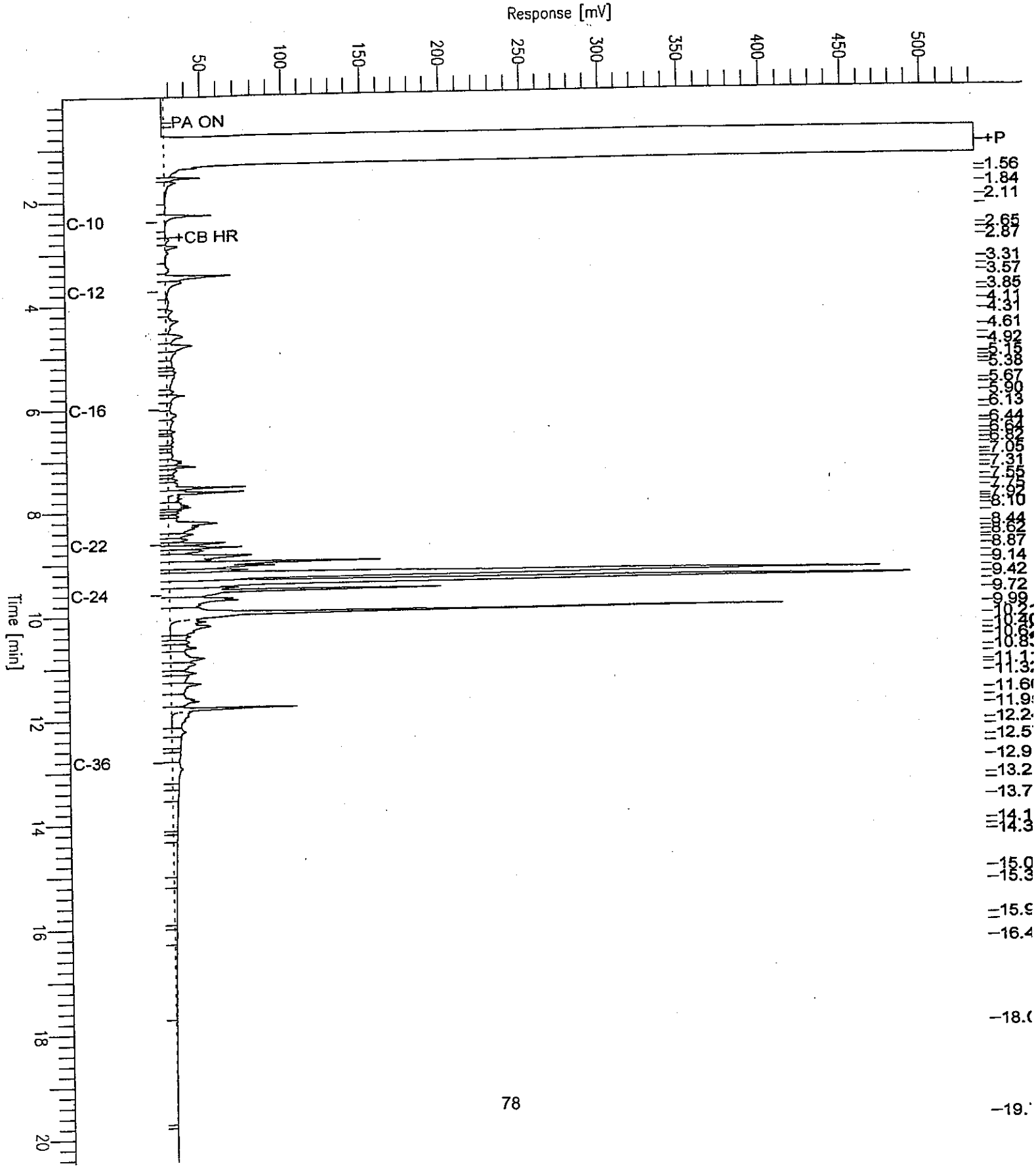
Chromatogram

Sample Name : 173881-004,93629
FileName : G:\GC11\CHA\223A045.RAW
Method : ATEH224S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 22 mV

Sample #: 93629
Date : 8/11/04 01:13 PM
Time of Injection: 8/11/04 12:48 PM
Low Point : 22.20 mV
Plot Scale: 510.4 mV

High Point : 532.57 mV



Software Version: 4.1<2F12>
Date: 8/11/04 01:09 PM
Sample Name : 173881-004,93629
Data File : G:\GC11\CHA\223A045.RAW Date: 8/11/04 12:48 PM
Sequence File: G:\GC11\223.SEQ Cycle: 45 Channel : A
Instrument : GC11 Rack/Vial: 0/45 Operator:
Sample Amount : 1.0000 Dilution Factor : 3.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	706058	25.32	75.9705			9.985	151.9409

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

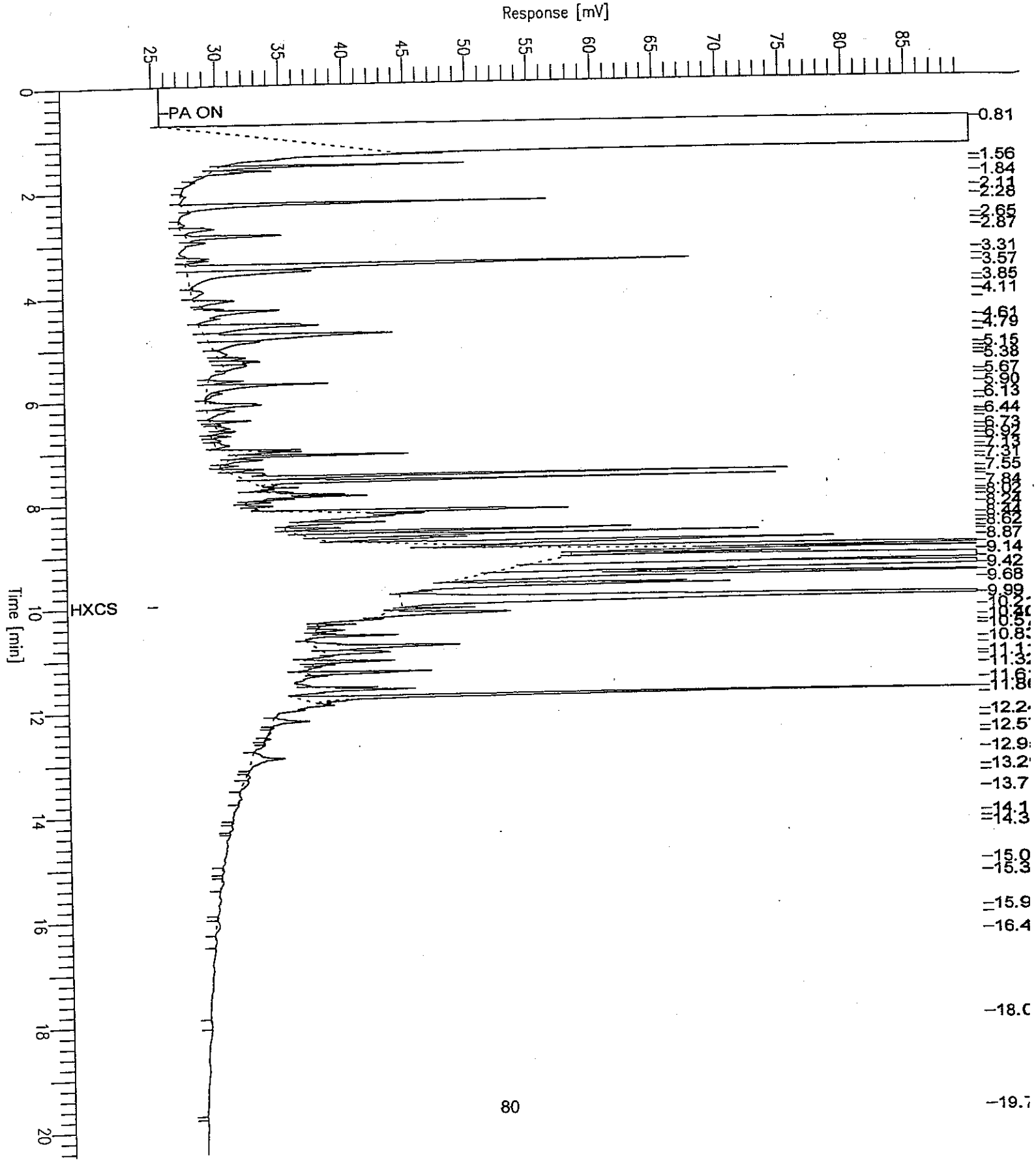
Report stored in ASCII file: G:\GC11\CHA\223A045.TXO

Chromatogram

Sample Name : 173881-004,93629
FileName : G:\GC11\CHA\223A045.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 93629
Date : 8/11/04 01:09 PM
Time of Injection: 8/11/04 12:48 PM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

Software Version: 4.1<2F12>
Sample Name : c10-16
Sample Number:
Operator :

Time : 7/29/04 11:35 AM
Study : s

Instrument : GC11
AutoSampler : HP7673A
Rack/Vial : 0/4

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 7/28/04 07:33 PM
Delay Time : 0.00 min.
End Time : 20.46 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC11\CHA\210A004.RAW
Result File : G:\GC11\CHA\210A004P.RST
Inst Method : G:\GC11\CHASHORT from G:\GC11\CHA\210A004P.RST
Proc Method : G:\GC11\ATEH208S.MTH
Calib Method : G:\GC11\ATEH208S.MTH
Sequence File : G:\GC11\210.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

- BTH 7/29/04
/mm p 7/29/04

DEFAULT REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
1	0.504	1136.57	553.16	0.02	0.02	BB	2.0547
2	2.242	1579.11	545.86	0.03	0.03	BB	2.8929
10 3	2.391	872958.24	225228.23	14.85	14.85	BB	3.8759
4	3.550	4762.00	2282.87	0.08	0.08	BB	2.0860
5	3.718	1222438.18	756796.95	20.79	20.79	BE	1.6153
6	3.957	1020.13	148.42	0.02	0.02	EB	6.8734
7	4.677	1218.43	652.88	0.02	0.02	BV	1.8662
8	4.760	6654.93	4574.00	0.11	0.11	VB	1.4549
9	4.930	1588185.04	934345.10	27.01	27.01	BB	1.6998
10	5.653	132.98	98.90	0.00	0.00	BV	1.3446
11	5.747	3961.64	1710.27	0.07	0.07	VV	2.3164
12	5.837	8922.13	6008.51	0.15	0.15	VB	1.4849
13	5.998	1942319.42	912885.04	33.04	33.04	BB	2.1277
14	9.213	208.01	84.61	0.00	0.00	BB	2.4584
15	9.729	355.62	121.74	0.01	0.01	BB	2.9211
16	10.215	328.27	191.58	0.01	0.01	BB	1.7134
17	10.676	450.83	252.40	0.01	0.01	BB	1.7862

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
18	11.105	680.64	404.73	0.01	0.01	BB	1.6817
19	11.507	905.23	586.81	0.02	0.02	BB	1.5426
20	11.885	1133.83	670.26	0.02	0.02	BB	1.6916
21	12.245	1273.16	779.43	0.02	0.02	BB	1.6335
22	12.570	192203.37	21801.91	3.27	3.27	BE	8.8159
23	12.684	13476.88	2422.98	0.23	0.23	EV	5.5621
24	12.828	3907.08	868.65	0.07	0.07	VB	4.4978
25	13.311	1570.44	775.65	0.03	0.03	BB	2.0247
26	13.719	1265.51	667.25	0.02	0.02	BB	1.8966
27	14.180	1095.82	514.47	0.02	0.02	BB	2.1300
28	14.718	966.06	409.32	0.02	0.02	BB	2.3602
29	15.360	900.44	317.27	0.02	0.02	BB	2.8381
30	16.131	1159.53	264.08	0.02	0.02	BB	4.3909
31	16.494	1617.88	181.08	0.03	0.03	BB	8.9347
32	17.074	513.57	124.23	0.01	0.01	BB	4.1342
		5879300.95	2.88e+06	100.00	100.00		

Missing Component Report

Component	Expected Retention (Calibration File)
C-10	2.505
C-12	3.858
C-16	6.141
C-22	8.772
C-36	12.994

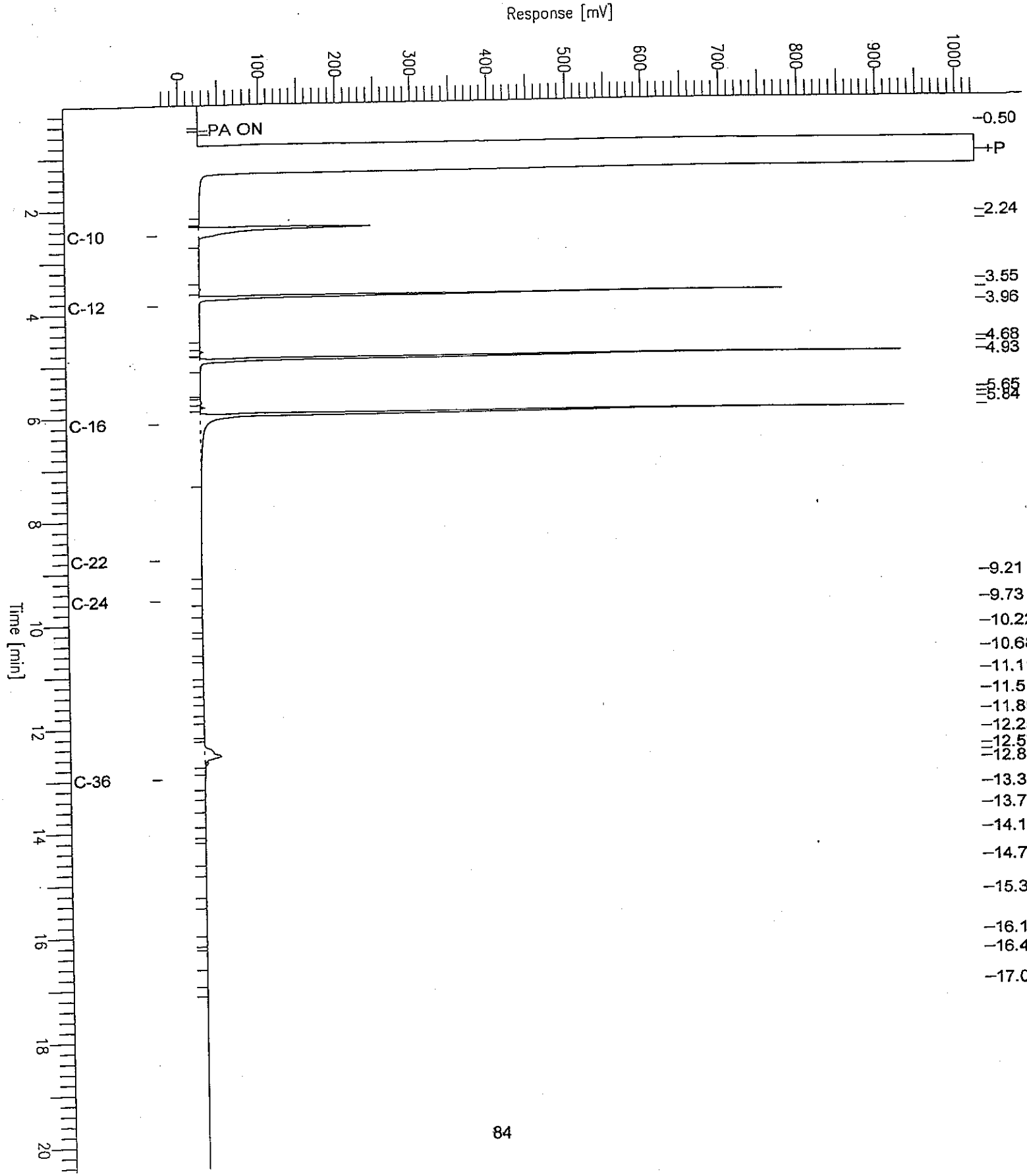
Chromatogram

Sample Name : c10-16
FileName : G:\GC11\CHA\210A004.RAW
Method : ATEH208S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: -27 mV

Sample #:
Date : 7/29/04 11:35 AM
Time of Injection: 7/28/04 07:33 PM
Low Point : -27.43 mV
Plot Scale: 1051.4 mV

High Point : 1024.00 mV



Software Version: 4.1<2F12>
Sample Name : c12-60
Sample Number:
Operator :

Time : 7/29/04 11:35 AM
Study : s

Instrument : GC11
AutoSampler : HP7673A
Rack/Vial : 0/3

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 7/28/04 07:04 PM
Delay Time : 0.00 min.
End Time : 20.46 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC11\CHA\210A003.RAW
Result File : G:\GC11\CHA\210A003P.RST
Inst Method : G:\GC11\CHASHORT from G:\GC11\CHA\210A003P.RST
Proc Method : G:\GC11\ATEH208S.MTH
Calib Method : G:\GC11\ATEH208S.MTH
Sequence File : G:\GC11\210.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

- BTM 7/29/04

DEFAULT REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
1	2.447	1261.55	326.54	0.00	0.00	BB	3.8634
2	3.468	2755.67	1701.99	0.01	0.01	BV	1.6191
3	3.548	12531.22	7177.39	0.04	0.04	VB	1.7459
-12- 4	3.729	2160885.24	1.04e+06	6.61	6.61	BB	2.0770
5	4.378	465.62	254.80	0.00	0.00	BB	1.8274
6	4.451	284.72	206.16	9e-04	8.70e-04	BB	1.3810
7	4.596	289.75	129.84	9e-04	8.86e-04	BV	2.2317
8	4.673	2843.65	1254.27	0.01	0.01	VV	2.2672
9	4.760	12170.07	7906.33	0.04	0.04	VB	1.5393
14 10	4.938	2261298.03	989798.95	6.91	6.91	BB	2.2846
11	5.653	134.70	119.30	4e-04	4.12e-04	BV	1.1291
12	5.758	937.27	487.74	0.00	0.00	VB	1.9216
13	5.840	7772.35	6358.99	0.02	0.02	BB	1.2223
-16 14	6.009	2378050.30	1.04e+06	7.27	7.27	BB	2.2815
15	6.604	796.31	440.44	0.00	0.00	BB	1.8080
16	6.693	6043.83	2547.21	0.02	0.02	BB	2.3727
17	6.803	14051.80	8525.42	0.04	0.04	BB	1.6482

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
18	6.968	2513848.12	1.05e+06	7.69	7.69	BV	2.3964
19	7.320	2857.04	848.68	0.01	0.01	VV	3.3664
20	7.385	709.64	428.58	0.00	0.00	VB	1.6558
21	7.481	414.47	218.21	0.00	0.00	BV	1.8994
22	7.569	1586.89	611.85	0.00	0.00	VV	2.5936
23	7.689	856.65	565.13	0.00	0.00	VB	1.5158
24	7.837	2627137.86	1.01e+06	8.03	8.03	BB	2.5889
25	8.369	773.29	409.25	0.00	0.00	BB	1.8895
26	8.492	1520.88	837.30	0.00	0.00	BV	1.8164
27	8.634	2701943.37	1.07e+06	8.26	8.26	VV	2.5234
28	8.972	1879.47	1146.91	0.01	0.01	VB	1.6387
29	9.112	976.90	466.73	0.00	0.00	BB	2.0931
30	9.227	3829.22	2698.13	0.01	0.01	BV	1.4192
31	9.368	2748452.43	1.08e+06	8.40	8.40	VV	2.5561
32	9.666	2910.49	1383.97	0.01	0.01	VB	2.1030
33	9.909	2224.17	1502.69	0.01	0.01	BB	1.4801
34	10.044	2775613.42	970804.11	8.49	8.49	BB	2.8591
35	10.319	6327.15	4294.43	0.02	0.02	BB	1.4733
36	10.546	2014.08	1323.69	0.01	0.01	BV	1.5216
37	10.674	2743436.91	1.07e+06	8.39	8.39	VV	2.5578
38	10.920	7124.62	4455.93	0.02	0.02	VB	1.5989
39	11.053	861.74	618.93	0.00	0.00	BB	1.3923
40	11.136	5939.54	3538.86	0.02	0.02	BV	1.6784
41	11.261	2706196.95	1.06e+06	8.27	8.27	VV	2.5611
42	11.490	10456.40	5979.17	0.03	0.03	VB	1.7488
43	11.694	500.95	299.57	0.00	0.00	BB	1.6722
44	11.809	2513555.92	1.03e+06	7.68	7.68	BB	2.4505
45	12.026	9122.92	6909.06	0.03	0.03	BB	1.3204
46	12.204	2073.49	1313.54	0.01	0.01	BB	1.5786
47	12.279	91731.39	74112.08	0.28	0.28	BB	1.2377
48	12.629	335715.95	37857.30	1.03	1.03	BV	8.8679
49	12.705	160050.41	55513.61	0.49	0.49	VV	2.8831
50	12.822	1967831.60	797493.88	6.02	6.02	VB	2.4675
51	12.979	751.17	309.55	0.00	0.00	BB	2.4266
52	13.183	947.82	253.84	0.00	0.00	BB	3.7339
53	13.273	6913.18	2954.55	0.02	0.02	BV	2.3398
54	13.318	12993.00	8253.64	0.04	0.04	VB	1.5742
55	13.484	395.16	192.86	0.00	0.00	BB	2.0490
56	13.614	1440.35	700.26	0.00	0.00	BV	2.0569
57	13.678	1992.57	1227.87	0.01	0.01	VB	1.6228
58	14.008	1182443.67	409922.02	3.61	3.61	BV	2.8846
59	14.103	29842.59	14940.26	0.09	0.09	VB	1.9975
60	14.330	2182.47	1083.03	0.01	0.01	BB	2.0151
61	14.491	428.64	176.49	0.00	0.00	BB	2.4287
62	14.675	2027.46	826.56	0.01	0.01	BV	2.4529
63	14.746	7164.64	3280.55	0.02	0.02	VB	2.1840
64	15.215	4100.75	1576.10	0.01	0.01	BV	2.6018
65	15.320	1474.98	515.11	0.00	0.00	VB	2.8634
66	15.611	1790.56	403.58	0.01	0.01	BV	4.4367

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
14 67	15.848	617359.87	154286.72	1.89	1.89	VE	4.0014
68	16.014	2625.00	337.72	0.01	0.01	EV	7.7727
69	16.093	1601.00	403.99	0.00	0.00	VB	3.9630
70	16.435	2381.74	604.38	0.01	0.01	BB	3.9408
71	17.039	950.32	212.23	0.00	0.00	BV	4.4778
72	17.171	2202.03	480.26	0.01	0.01	VB	4.5850
73	18.022	1656.65	342.41	0.01	0.01	BB	4.8381
74	18.187	454.65	104.21	0.00	0.00	BB	4.3627
75	19.019	8355.81	1633.58	0.03	0.03	BB	5.1150
76	20.173	3328.73	534.70	0.01	0.01	BB	6.2254
		32710851.22	1.31e+07	100.00	100.00		

Missing Component Report

Component	Expected Retention (Calibration File)
C-10	2.505
C-12	3.858
C-16	6.141
C-22	8.772
C-36	12.994

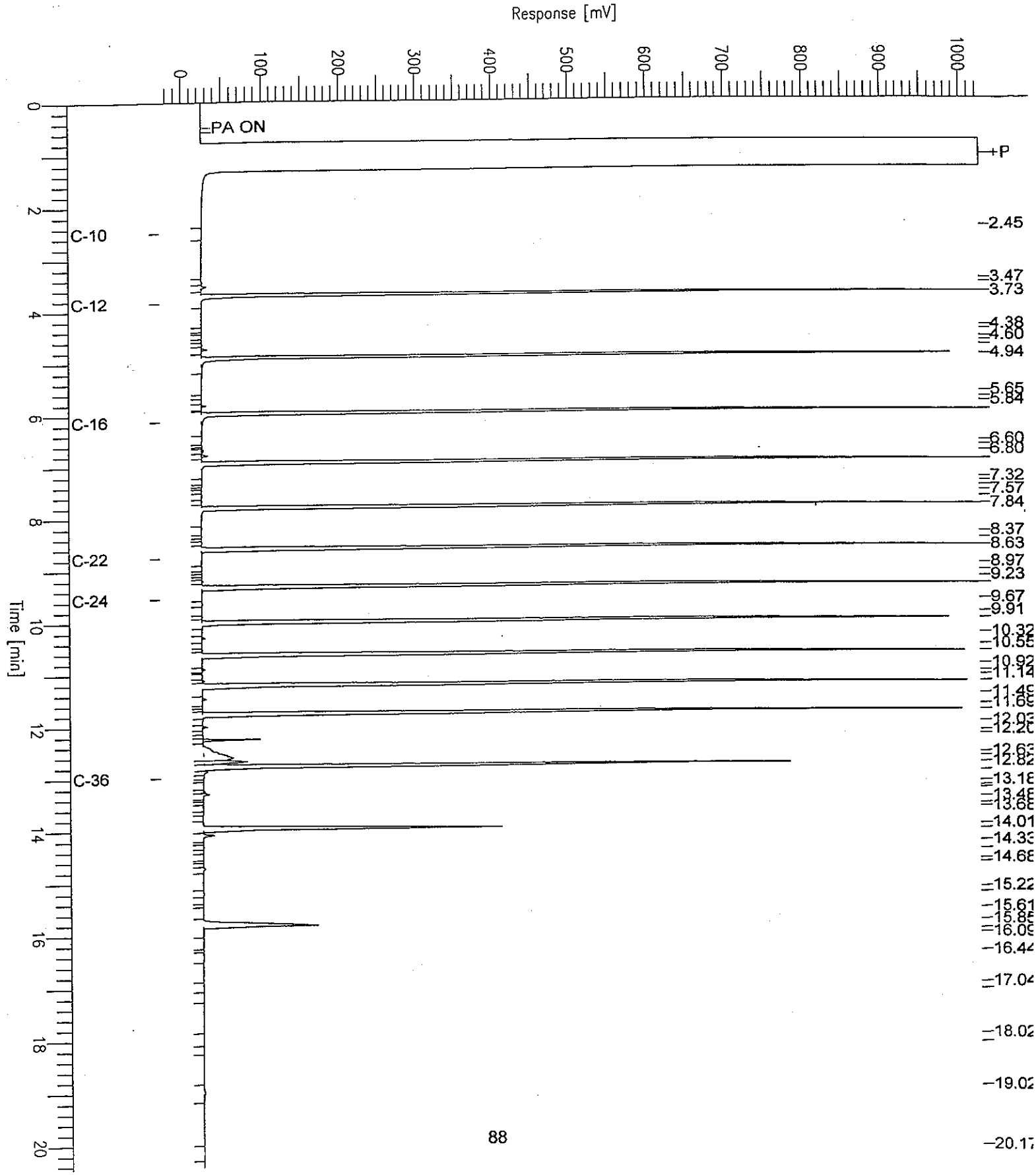
Chromatogram

Sample Name : c12-60
FileName : G:\GC11\CHA\210A003.RAW
Method : ATEH208S.MTH
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: -27 mV

Sample #:
Date : 7/29/04 11:39 AM
Time of Injection: 7/28/04 07:04 PM
Low Point : -27.15 mV
Plot Scale: 1051.1 mV

High Point : 1024.00 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By:
Calnum: 114295755001 Name: mo Type: (normal) Date: 23-JUL-2004 17:32 Inj Vol (uL): 3

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	205a013	114295755013	mo	23-JUL-2004 17:32	04WS1208
2	205a014	114295755014	mo	23-JUL-2004 18:01	04WS1209
3	205a015	114295755015	mo	23-JUL-2004 18:30	04WS1210
4	205a016	114295755016	mo	23-JUL-2004 18:59	04WS1211
5	205a017	114295755017	mo	23-JUL-2004 19:28	04WS1212
6	205a018	114295755018	mo	23-JUL-2004 19:57	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C20-C36	21196	25173	24978	24873	25475	25510	AVRG	R		4.076E-5		mg/L	24534	7	0.995	20	
Motor Oil C22-C32	17291	19790	19639	19975	20922	21081	AVRG	R		5.055E-5		mg/L	19783	7	0.995	20	
Motor Oil C22-C36	18882	22345	22239	22221	22603	23146	AVRG	R		4.565E-5		mg/L	21906	7	0.995	20	
Motor Oil C24-C36	14945	17893	17883	17772	17977	18783	AVRG	R		5.701E-5		mg/L	17542	8	0.995	20	

7.26.04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/26/04 12:41 PM
Sample Name : ical,04ws1208,mo
Data File : G:\GC11\CHA\205A013.RAW Date: 7/23/04 05:32 PM
Sequence File: G:\GC11\205.SEQ Cycle: 13 Channel : A
Instrument : GC11 Rack/Vial: 0/13 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)	
C-10	0	0.00	0.0000	1.00	1.00	0.0000	
C-12	0	0.00	0.0000	1.00	1.00	0.0000	
KER:10-16	4172	0.12	0.1248	1.00	1.00	0.1248	
JP5:10-16	4172	0.20	0.2000	1.00	1.00	0.2000	
JETA:10-16	4172	0.22	0.2152	1.00	1.00	0.2152	
JP8:10-16	4172	0.22	0.2196	1.00	1.00	0.2196	
DSL:10-22	129964	5.70	5.6998	1.00	1.00	5.6998	
DSL:10-24	326779	14.20	14.1957	1.00	1.00	14.1957	
GAIAFP:10-24	326779	7.72	7.7196	1.00	1.00	7.7196	
C-16	0	0.00	0.0000	1.00	1.00	0.0000	
DSL:12-22	129964	6.59	6.5892	1.00	1.00	6.5892	~~LOS4777~~
DSL:10-28	763674	33.01	33.0133	1.00	1.00	33.0133	
DSL:12-24	326779	16.39	16.3863	1.00	1.00	16.3863	
RRFPLH:16-24	322607	46.69	46.6891	1.00	1.00	46.6891	
CRUDE:10-40	1084374	1.08	1.0844	1.00	1.00	1.0844	
TRIMSOL:12-36	1074040	43.65	43.6504	1.00	1.00	43.6504	
C-22	0	0.00	0.0000	1.00	1.00	0.0000	
HYFL:12-40	1084374	54.68	54.6805	1.00	1.00	54.6805	
BUNKC:12-40	1084374	140.35	140.3485	1.00	1.00	140.3485	CAL FACTOR:
TRANSOIL:12-40	1084374	23.27	23.2692	1.00	1.00	23.2692	24534.08846
MO:22-32	864549	48.08	48.0832	1.00	1.00	48.0832	
MO:20-36	1059777	48.49	48.4937	1.00	1.00	48.4937	
MO:22-36	944076	48.44	48.4357	1.00	1.00	48.4357	
HYFL:24-36	747261	52.29	52.2879	1.00	1.00	52.2879	RSD%: 6.75
TPHHF:24-36	747261	7.47e-08	7.4726e-08	1.00	1.00	7.4726e-08	
MO:24-36	747261	48.69	48.6882	1.00	1.00	48.6882	
C-36	0	0.00	0.0000	1.00	1.00	0.0000	

CURTIS & TOMPKINS,LTD. BERKELEY

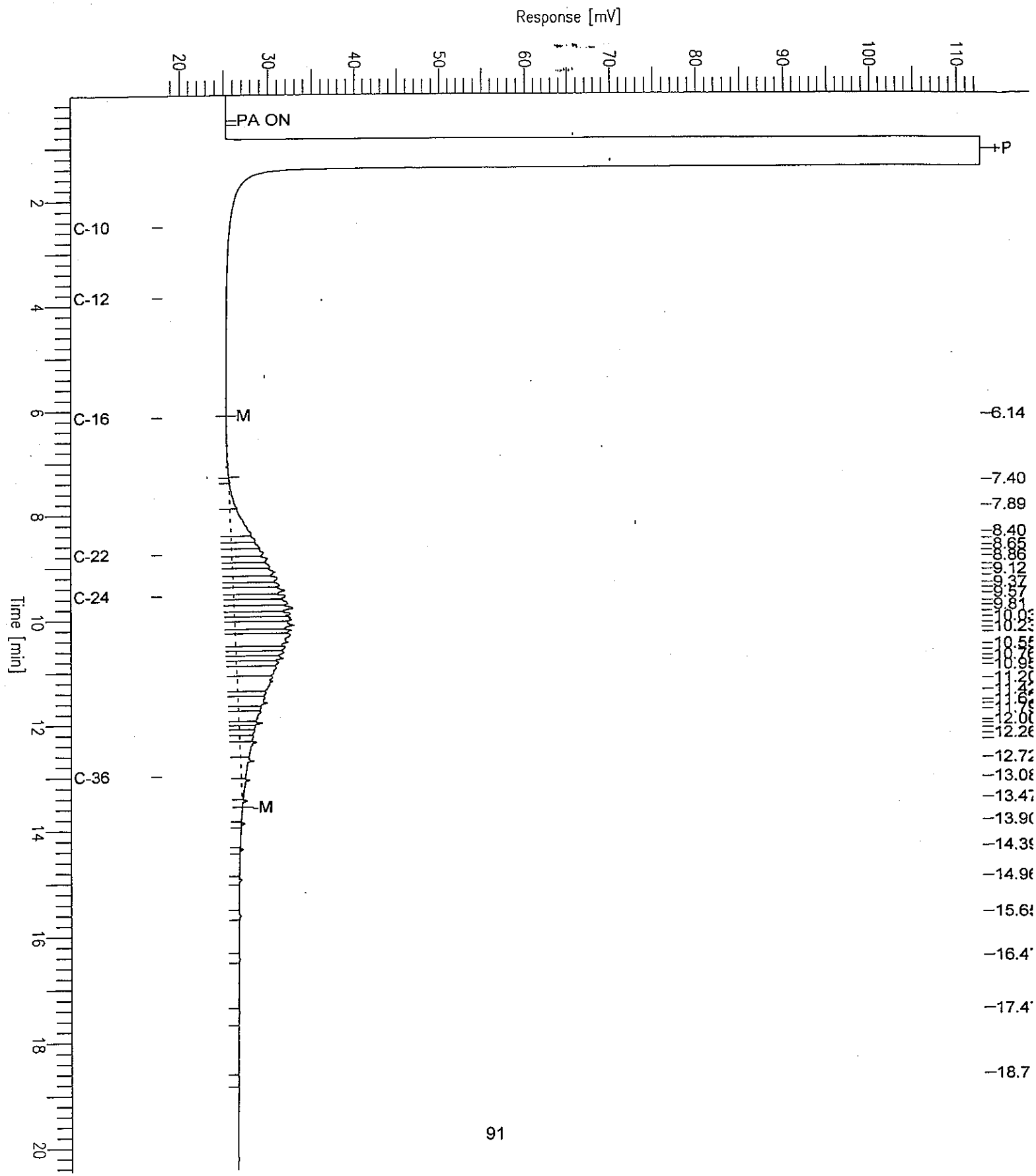
Analyzed By: JB 7.26.04 Reviewed By: CW Hrubb

Report stored in ASCII file: G:\GC11\CHA\205A013P.TXO

Chromatogram

Sample Name : ical,04wsl208,mo
FileName : G:\GC11\CHA\205A013.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 50mg/L
Date : 7/26/04 12:41 PM
Time of Injection: 7/23/04 05:32 PM
Low Point : 18.10 mV High Point : 112.62 mV
Plot Scale: 94.5 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:42 PM
Sample Name : ical,04ws1209,mo
Data File : G:\GC11\CHA\205A014.RAW Date: 7/23/04 06:01 PM
Sequence File: G:\GC11\205.SEQ Cycle: 14 Channel : A
Instrument : GC11 Rack/Vial: 0/14 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	839038	36.80	36.7977	1.00	1.00	36.7977
DSL:10-24	1951891	84.79	84.7925	1.00	1.00	84.7925
GAIAFP:10-24	1951891	46.11	46.1102	1.00	1.00	46.1102
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	839038	42.54	42.5390	1.00	1.00	42.5390
DSL:10-28	4380414	189.36	189.3631	1.00	1.00	189.3631
DSL:12-24	1951891	97.88	97.8774	1.00	1.00	97.8774
RRFPLH:16-24	1951891	282.49	282.4865	1.00	1.00	282.4865
CRUDE:10-40	6599919	6.60	6.5999	1.00	1.00	6.5999
TRIMSOL:12-36	6425195	261.13	261.1286	1.00	1.00	261.1286
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	6599919	332.81	332.8068	1.00	1.00	332.8068
BUNKC:12-40	6599919	854.22	854.2151	1.00	1.00	854.2151
TRANSOIL:12-40	6599919	141.63	141.6253	1.00	1.00	141.6253
MO:22-32	4947454	275.16	275.1600	1.00	1.00	275.1600
MO:20-36	6293292	287.97	287.9709	1.00	1.00	287.9709
MO:22-36	5586158	286.60	286.5974	1.00	1.00	286.5974
HYFL:24-36	4473304	313.01	313.0095	1.00	1.00	313.0095
TPHHF:24-36	4473304	4.47e-07	4.4733e-07	1.00	1.00	4.4733e-07
MO:24-36	4473304	291.46	291.4607	1.00	1.00	291.4607
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

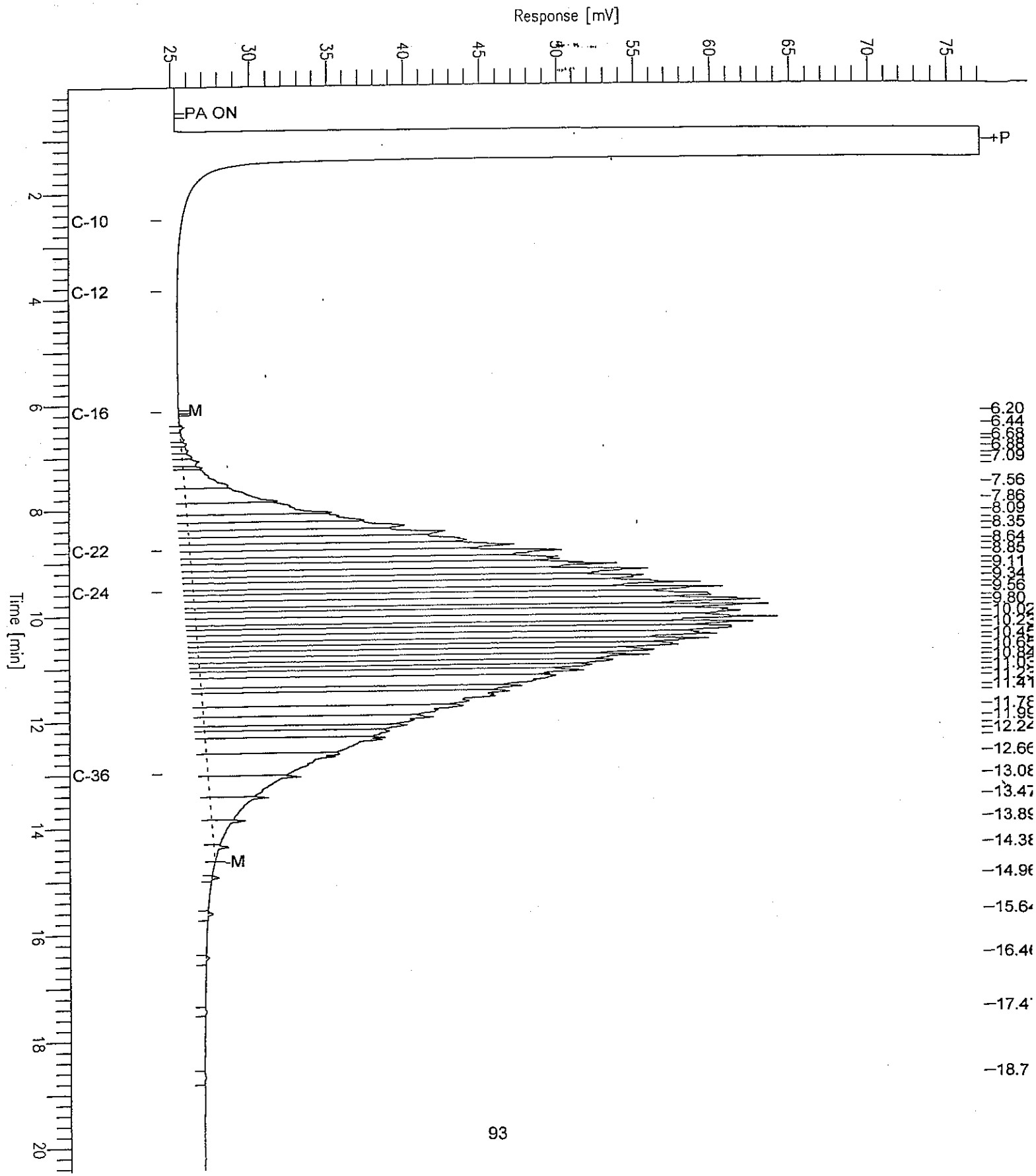
Analyzed By: 7.26.04. Reviewed By: 7/26/04

Report stored in ASCII file: G:\GC11\CHA\205A014P.TXO

Chromatogram

Sample Name : ical,04ws1209,mo
FileName : G:\GC11\CHA\205A014.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 250mg/L
Date : 7/26/04 12:42 PM
Time of Injection: 7/23/04 06:01 PM
Low Point : 24.41 mV High Point : 77.11 mV
Plot Scale: 52.7 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:42 PM
Sample Name : ical,04ws1210,mo
Data File : G:\GC11\CHA\205A015.RAW Date: 7/23/04 06:30 PM
Sequence File: G:\GC11\205.SEQ Cycle: 15 Channel : A
Instrument : GC11 Rack/Vial: 0/15 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area (µV·s)	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	236	0.01	0.0071	1.00	1.00	0.0071
JP5:10-16	236	0.01	0.0113	1.00	1.00	0.0113
JETA:10-16	236	0.01	0.0122	1.00	1.00	0.0122
JP8:10-16	236	0.01	0.0124	1.00	1.00	0.0124
DSL:10-22	1716736	75.29	75.2909	1.00	1.00	75.2909
DSL:10-24	3895055	169.21	169.2058	1.00	1.00	169.2058
GAIAFP:10-24	3895055	92.01	92.0142	1.00	1.00	92.0142
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1716736	87.04	87.0381	1.00	1.00	87.0381
DSL:10-28	8721792	377.04	377.0387	1.00	1.00	377.0387
DSL:12-24	3895055	195.32	195.3172	1.00	1.00	195.3172
RRFPLH:16-24	3894819	563.68	563.6758	1.00	1.00	563.6758
CRUDE:10-40	13183405	13.18	13.1834	1.00	1.00	13.1834
TRIMSOL:12-36	12836418	521.69	521.6894	1.00	1.00	521.6894
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	13183405	664.79	664.7850	1.00	1.00	664.7850
BUNKC:12-40	13183405	1706.30	1706.3034	1.00	1.00	1706.3034
TRANSOIL:12-40	13183405	282.90	282.8980	1.00	1.00	282.8980
MO:22-32	9819580	546.13	546.1305	1.00	1.00	546.1305
MO:20-36	12488912	571.47	571.4725	1.00	1.00	571.4725
MO:22-36	11119681	570.49	570.4945	1.00	1.00	570.4945
HYFL:24-36	8941363	625.65	625.6520	1.00	1.00	625.6520
TPHHF:24-36	8941363	8.94e-07	8.9414e-07	1.00	1.00	8.9414e-07
MO:24-36	8941363	582.58	582.5796	1.00	1.00	582.5796
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: JG 7.26.04 Reviewed By: CW 7/26/04

Report stored in ASCII file: G:\GC11\CHA\205A015P.TX0

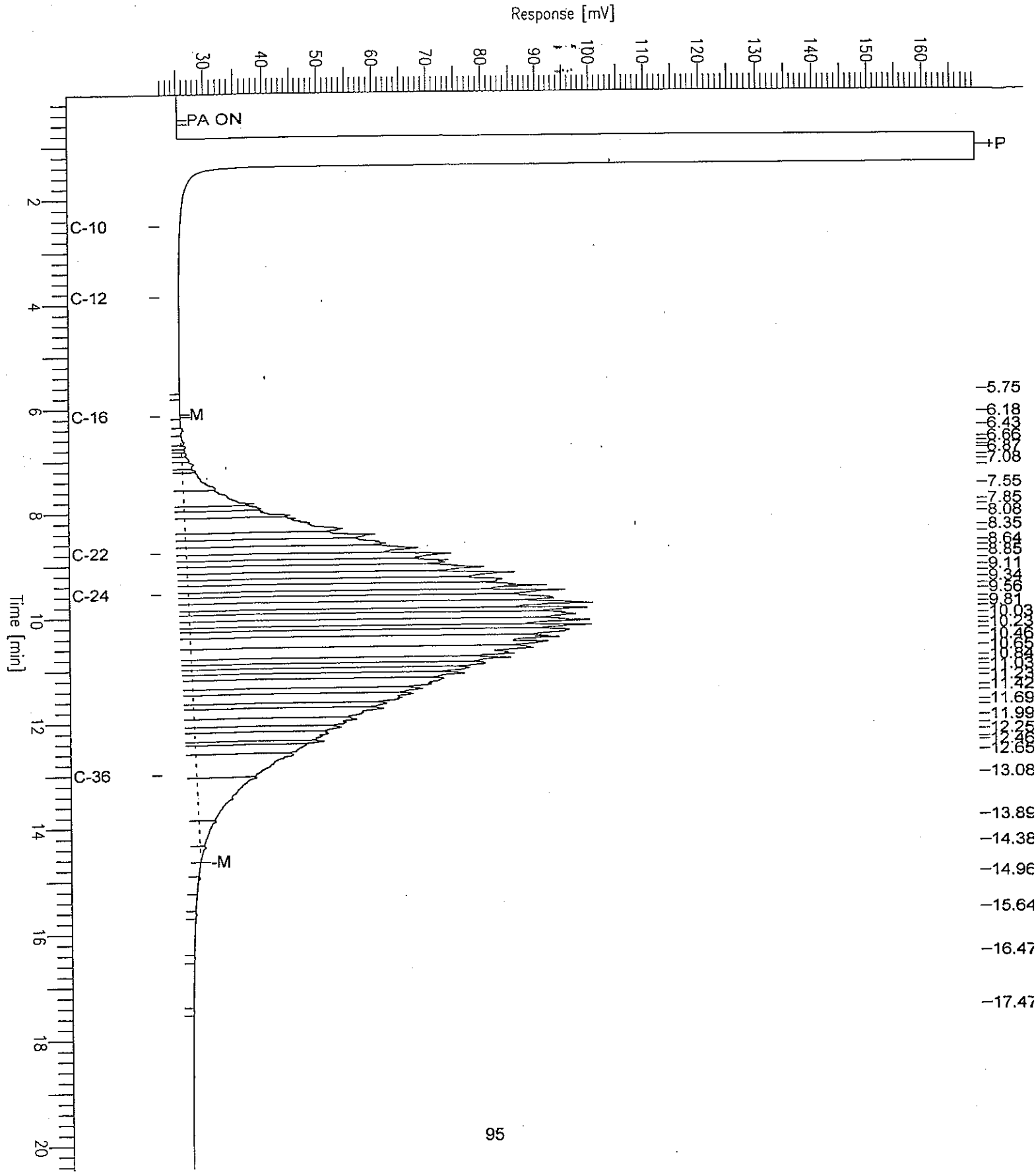
Chromatogram

Sample Name : ical,04ws1210,mo
FileName : G:\GC11\CHA\205A015.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 22 mV

Sample #: 500mg/L
Date : 7/26/04 12:42 PM
Time of Injection: 7/23/04 06:30 PM
Low Point : 21.81 mV
Plot Scale: 147.6 mV

High Point : 169.39 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:43 PM
Sample Name : ical,04ws1211,mo
Data File : G:\GC11\CHA\205A016.RAW Date: 7/23/04 06:59 PM
Sequence File: G:\GC11\205.SEQ Cycle: 16 Channel : A
Instrument : GC11 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	3359702	147.35	147.3464	1.00	1.00	147.3464
DSL:10-24	7809154	339.24	339.2389	1.00	1.00	339.2389
GAIAFP:10-24	7809154	184.48	184.4783	1.00	1.00	184.4783
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	3359702	170.34	170.3361	1.00	1.00	170.3361
DSL:10-28	17435919	753.75	753.7461	1.00	1.00	753.7461
DSL:12-24	7809154	391.59	391.5893	1.00	1.00	391.5893
RRFPLH:16-24	7809154	1130.18	1130.1761	1.00	1.00	1130.1761
CRUDE:10-40	26293443	26.29	26.2934	1.00	1.00	26.2934
TRIMSOL:12-36	25580930	1039.64	1039.6436	1.00	1.00	1039.6436
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	26293443	1325.87	1325.8705	1.00	1.00	1325.8705
BUNKC:12-40	26293443	3403.11	3403.1110	1.00	1.00	3403.1110
TRANSOIL:12-40	26293443	564.22	564.2217	1.00	1.00	564.2217
MO:22-32	19975000	1110.94	1110.9393	1.00	1.00	1110.9393
MO:20-36	24872770	1138.14	1138.1379	1.00	1.00	1138.1379
MO:22-36	22221227	1140.06	1140.0585	1.00	1.00	1140.0585
HYFL:24-36	17771775	1243.54	1243.5405	1.00	1.00	1243.5405
TPHHF:24-36	17771775	1.78e-06	1.7772e-06	1.00	1.00	1.7772e-06
MO:24-36	17771775	1157.93	1157.9302	1.00	1.00	1157.9302
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

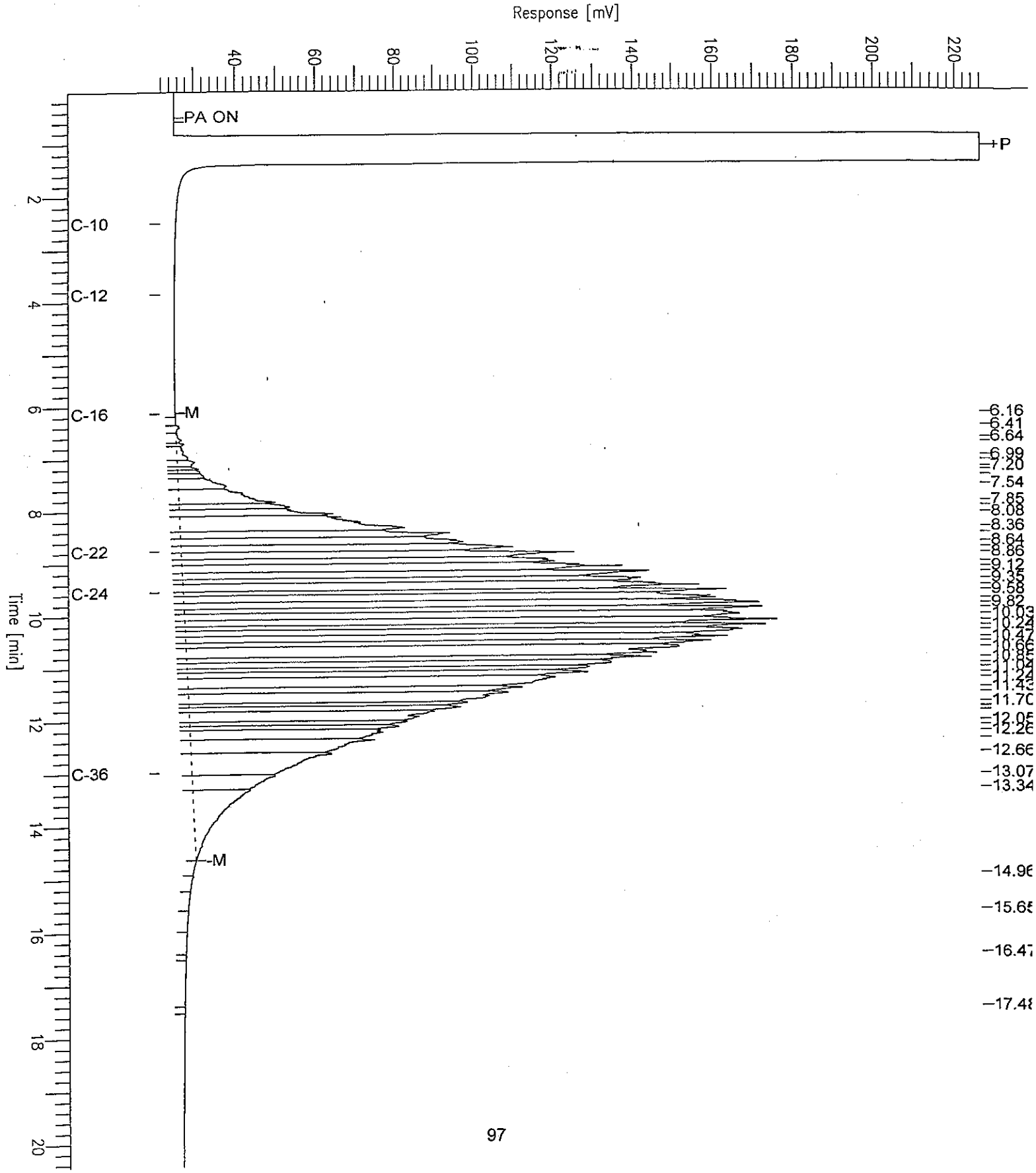
Analyzed By: JS 7.26.04. Reviewed By: CW 7/26/04

Report stored in ASCII file: G:\GC11\CHA\205A016P.TXO

Chromatogram

Sample Name : ical,04ws1211,mo
FileName : G:\GC11\CHA\205A016.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 1000mg/L
Date : 7/26/04 12:43 PM
Time of Injection: 7/23/04 06:59 PM
Low Point : 21.82 mV High Point : 226.05 mV
Plot Scale: 204.2 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:43 PM
Sample Name : ical,04ws1212,mo
Data File : G:\GC11\CHA\205A017.RAW Date: 7/23/04 07:28 PM
Sequence File: G:\GC11\205.SEQ Cycle: 17 Channel : A
Instrument : GC11 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	1709	0.05	0.0511	1.00	1.00	0.0511
JP5:10-16	1709	0.08	0.0819	1.00	1.00	0.0819
JETA:10-16	1709	0.09	0.0881	1.00	1.00	0.0881
JP8:10-16	1709	0.09	0.0900	1.00	1.00	0.0900
DSL:10-22	9126747	400.27	400.2716	1.00	1.00	400.2716
DSL:10-24	20691852	898.88	898.8785	1.00	1.00	898.8785
GAIAFP:10-24	20691852	488.81	488.8105	1.00	1.00	488.8105
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	9126207	462.70	462.6965	1.00	1.00	462.6965
DSL:10-28	45546637	1968.96	1968.9585	1.00	1.00	1968.9585
DSL:12-24	20691313	1037.56	1037.5640	1.00	1.00	1037.5640
RRFPLH:16-24	20690143	2994.37	2994.3710	1.00	1.00	2994.3710
CRUDE:10-40	65633343	65.63	65.6333	1.00	1.00	65.6333
TRIMSOL:12-36	65632804	2667.41	2667.4059	1.00	1.00	2667.4059
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	65632804	3309.59	3309.5931	1.00	1.00	3309.5931
BUNKC:12-40	65632804	8494.73	8494.7308	1.00	1.00	8494.7308
TRANSOIL:12-40	65632804	1408.39	1408.3911	1.00	1.00	1408.3911
MO:22-32	52304775	2909.01	2909.0078	1.00	1.00	2909.0078
MO:20-36	63688521	2914.28	2914.2841	1.00	1.00	2914.2841
MO:22-36	56506596	2899.07	2899.0668	1.00	1.00	2899.0668
HYFL:24-36	44941491	3144.68	3144.6810	1.00	1.00	3144.6810
TPHHF:24-36	44941491	4.49e-06	4.4941e-06	1.00	1.00	4.4941e-06
MO:24-36	44941491	2928.19	2928.1886	1.00	1.00	2928.1886
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: JS 7-26-04 Reviewed By: [illegible]

Report stored in ASCII file: G:\GC11\CHA\205A017P.TX0

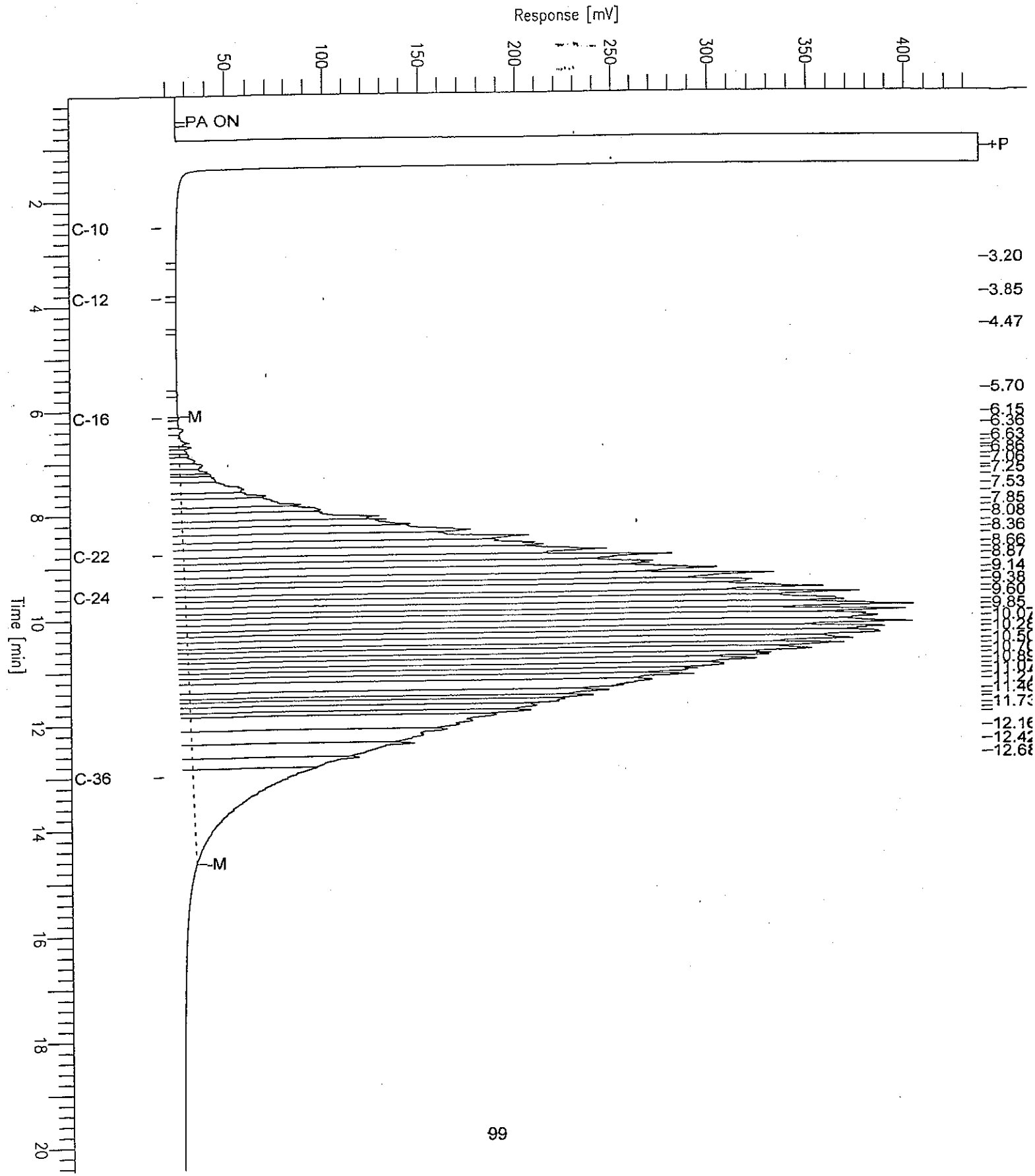
Chromatogram

Sample Name : ical,04ws1212,mo
FileName : G:\GC11\CHA\205A017.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 18 mV

Sample #: 2500mg/l
Date : 7/26/04 12:43 PM
Time of Injection: 7/23/04 07:28 PM
Low Point : 18.05 mV
Plot Scale: 419.7 mV

High Point : 437.76 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:44 PM
Sample Name : ical,04ws1012,mo
Data File : G:\GC11\CHA\205A018.RAW Date: 7/23/04 07:57 PM
Sequence File: G:\GC11\205.SEQ Cycle: 18 Channel : A
Instrument : GC11 Rack/Vial: 0/18 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	16295	0.49	0.4873	1.00	1.00	0.4873
JP5:10-16	16295	0.78	0.7810	1.00	1.00	0.7810
JETA:10-16	16295	0.84	0.8404	1.00	1.00	0.8404
JP8:10-16	16295	0.86	0.8578	1.00	1.00	0.8578
DSL:10-22	16693948	732.15	732.1462	1.00	1.00	732.1462
DSL:10-24	38508127	1672.84	1672.8386	1.00	1.00	1672.8386
GAIAFP:10-24	38508127	909.69	909.6904	1.00	1.00	909.6904
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	16691536	846.26	846.2569	1.00	1.00	846.2569
DSL:10-28	89841628	3883.81	3883.8089	1.00	1.00	3883.8089
DSL:12-24	38505715	1930.87	1930.8655	1.00	1.00	1930.8655
RRFPLH:16-24	38491831	5570.71	5570.7117	1.00	1.00	5570.7117
CRUDE:10-40	132423836	132.42	132.4238	1.00	1.00	132.4238
TRIMSOL:12-36	132421424	5381.79	5381.7857	1.00	1.00	5381.7857
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	132421424	6677.47	6677.4694	1.00	1.00	6677.4694
BUNKC:12-40	132421424	17139.06	17139.0567	1.00	1.00	17139.0567
TRANSOIL:12-40	132421424	2841.58	2841.5845	1.00	1.00	2841.5845
MO:22-32	105406949	5862.36	5862.3641	1.00	1.00	5862.3641
MO:20-36	127549111	5836.44	5836.4418	1.00	1.00	5836.4418
MO:22-36	115729888	5937.51	5937.5136	1.00	1.00	5937.5136
HYFL:24-36	93915710	6571.54	6571.5431	1.00	1.00	6571.5431
TPHHF:24-36	93915710	9.39e-06	9.3916e-06	1.00	1.00	9.3916e-06
MO:24-36	93915710	6119.13	6119.1318	1.00	1.00	6119.1318
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

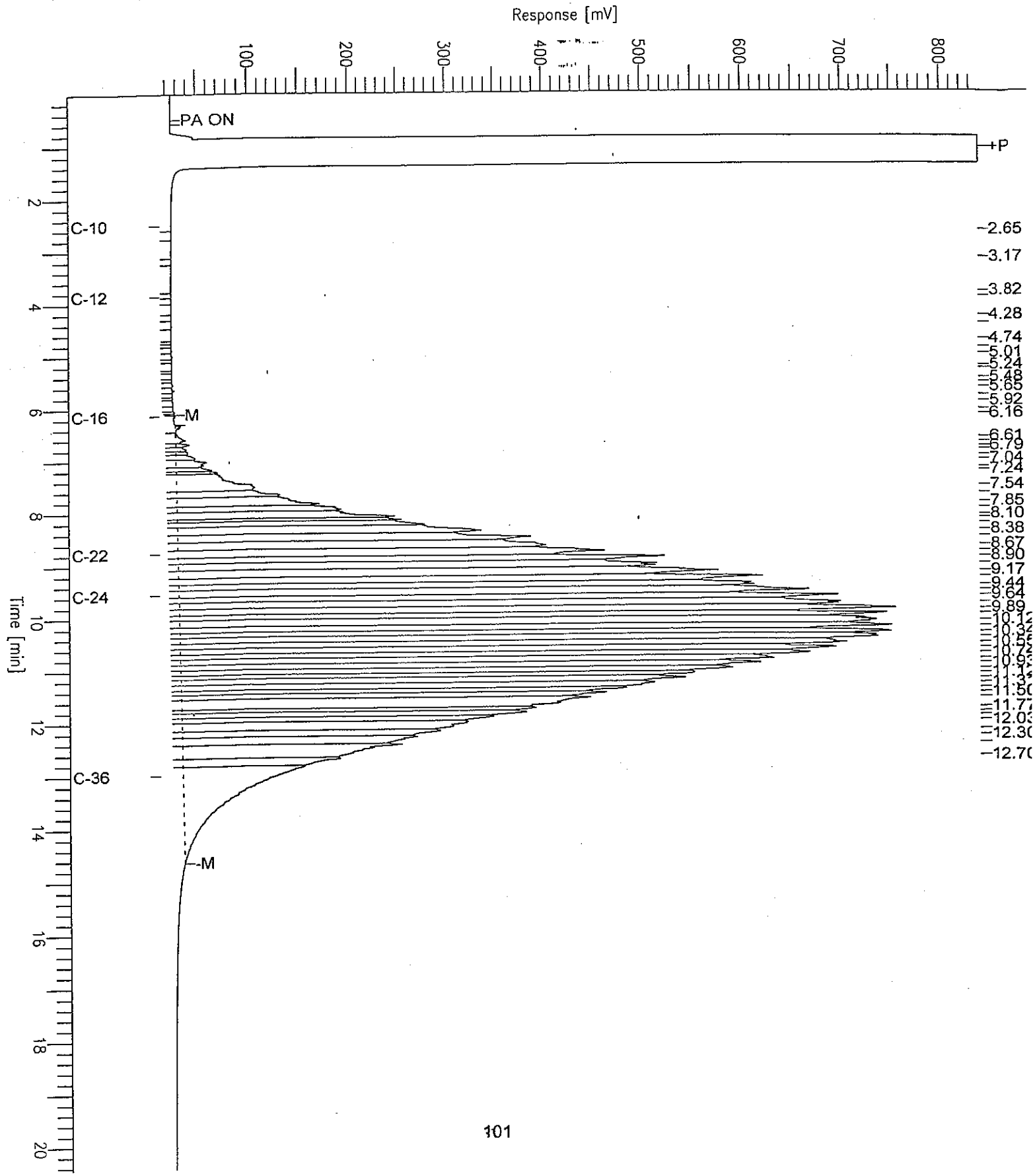
Analyzed By: JS 7-26-04 Reviewed By: [illegible]

Report stored in ASCII file: G:\GC11\CHA\205A018P.TXO

Chromatogram

Sample Name : ical,04ws1012,mo
FileName : G:\GC11\CHA\205A018.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #: 5000mg/L
Date : 7/26/04 12:44 PM
Time of Injection: 7/23/04 07:57 PM
Low Point : 14.30 mV High Point : 838.71 mV
Plot Scale: 824.4 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By:
Calnum: 114301759001 Name: Hexacosane Type: (normal) Date: 27-JUL-2004 17:53 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	209a010	114301759010	hex	27-JUL-2004 17:53	04WS0533
2	209a011	114301759011	hex	27-JUL-2004 18:22	04WS0534
3	209a012	114301759012	hex	27-JUL-2004 18:51	04WS0535
4	209a013	114301759013	hex	27-JUL-2004 19:20	04WS0536
5	209a014	114301759014	hex	27-JUL-2004 19:49	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	24923	25871	27071	30997	30546	AVRG R		3.587E-5		mg/L	27882	10	0.995	20	

102

mmp
7/30/04

CW 7/30/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/30/04 10:41 AM
Sample Name : ical,04ws0533,hex
Data File : G:\GC11\CHA\209A010.RAW Date: 7/27/04 05:53 PM
Sequence File: G:\GC11\209.SEQ Cycle: 10 Channel : A
Instrument : GC11 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	124613	4.75	4.7492		10.193	9.4983

CURTIS & TOMPKINS,LTD. BERKELEY

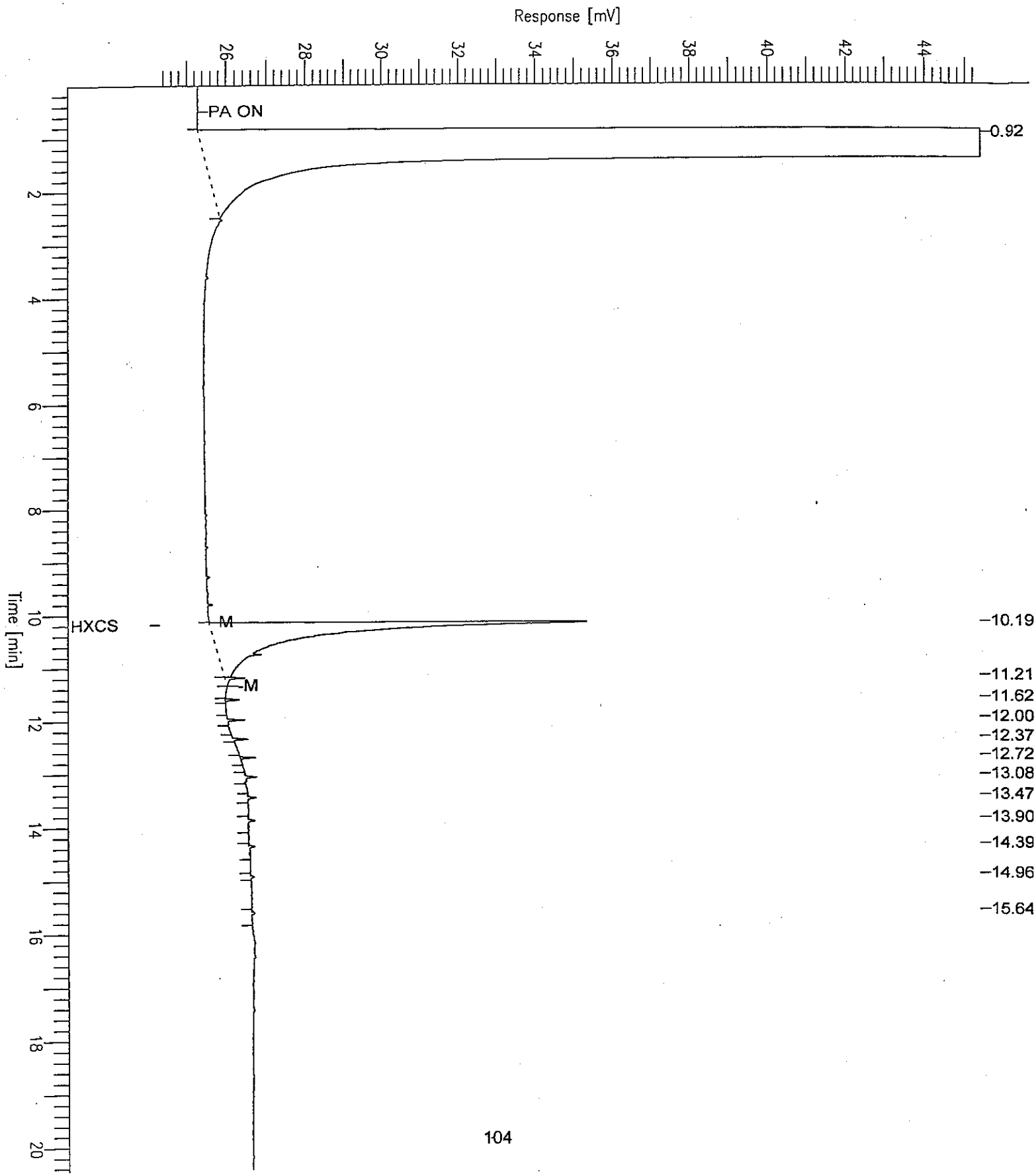
Analyzed By: MMP 7/30/04 Reviewed By: CW 7/30/04

Report stored in ASCII file: G:\GC11\CHA\209A010Q.TX0

Chromatogram

Sample Name : ical,04ws0533,hex
FileName : G:\GC11\CHA\209A010.RAW
Method :
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 5mg/L
Date : 7/30/04 10:41 AM
Time of Injection: 7/27/04 05:53 PM
Low Point : 24.35 mV High Point : 45.40 mV
Plot Scale: 21.0 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:39 AM
Sample Name : ical,04ws0533,hex
Data File : G:\GC11\CHA\209A010.RAW Date: 7/27/04 05:53 PM
Sequence File: G:\GC11\209.SEQ Cycle: 10 Channel : A
Instrument : GC11 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	96479	3.68	3.6770			10.193	7.3539

CURTIS & TOMPKINS,LTD. BERKELEY

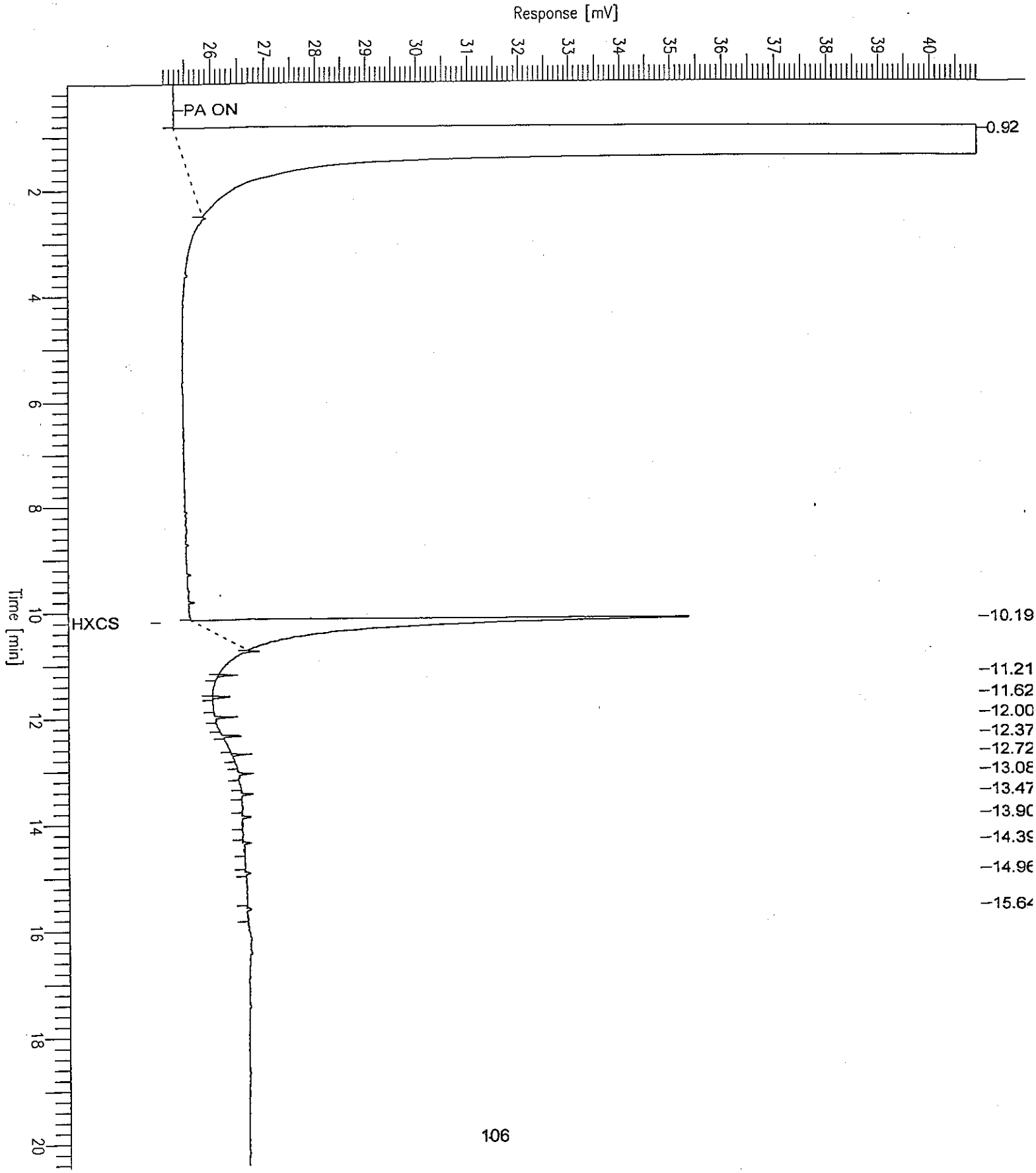
Analyzed By: mmp 7/30/04 Reviewed By: CW 7/30/04

Report stored in ASCII file: G:\GC11\CHA\209A010.TX0

Chromatogram

Sample Name : ical,04ws0533,hex
FileName : G:\GC11\CHA\209A010.RAW
Method :
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 5mg/L
Date : 7/30/04 10:41 AM
Time of Injection: 7/27/04 05:53 PM
Low Point : 25.03 mV High Point : 40.90 mV
Plot Scale: 15.9 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:41 AM
Sample Name : ical,04ws0534,hex
Data File : G:\GC11\CHA\209A011.RAW Date: 7/27/04 06:22 PM
Sequence File: G:\GC11\209.SEQ Cycle: 11 Channel : A
Instrument : GC11 Rack/Vial: 0/11 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	258709	9.86	9.8598			10.122	19.7195

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: mm 7/30/04 Reviewed By: CW 7/30/04

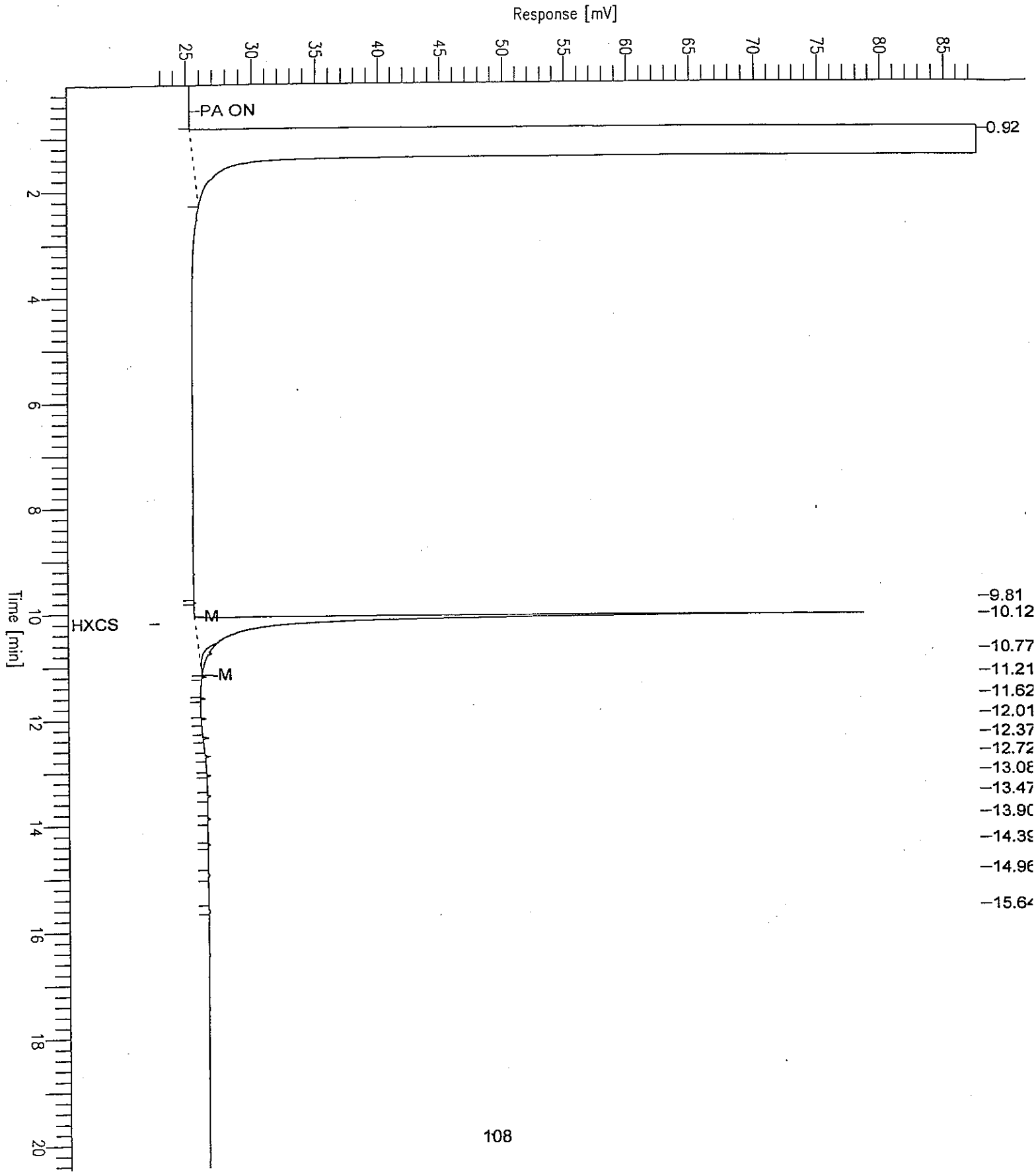
Report stored in ASCII file: G:\GC11\CHA\209A011Q.TX0

Chromatogram

Sample Name : ical,04ws0534,hex
FileName : G:\GC11\CHA\209A011.RAW
Method :
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 23 mV

Sample #: 10mg/L
Date : 7/30/04 10:41 AM
Time of Injection: 7/27/04 06:22 PM
Low Point : 22.87 mV
Plot Scale: 64.7 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:39 AM
Sample Name : ical,04ws0534,hex
Data File : G:\GC11\CHA\209A011.RAW Date: 7/27/04 06:22 PM
Sequence File: G:\GC11\209.SEQ Cycle: 11 Channel : A
Instrument : GC11 Rack/Vial: 0/11 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	221334	8.44	8.4354			10.122	16.8707

CURTIS & TOMPKINS,LTD. BERKELEY

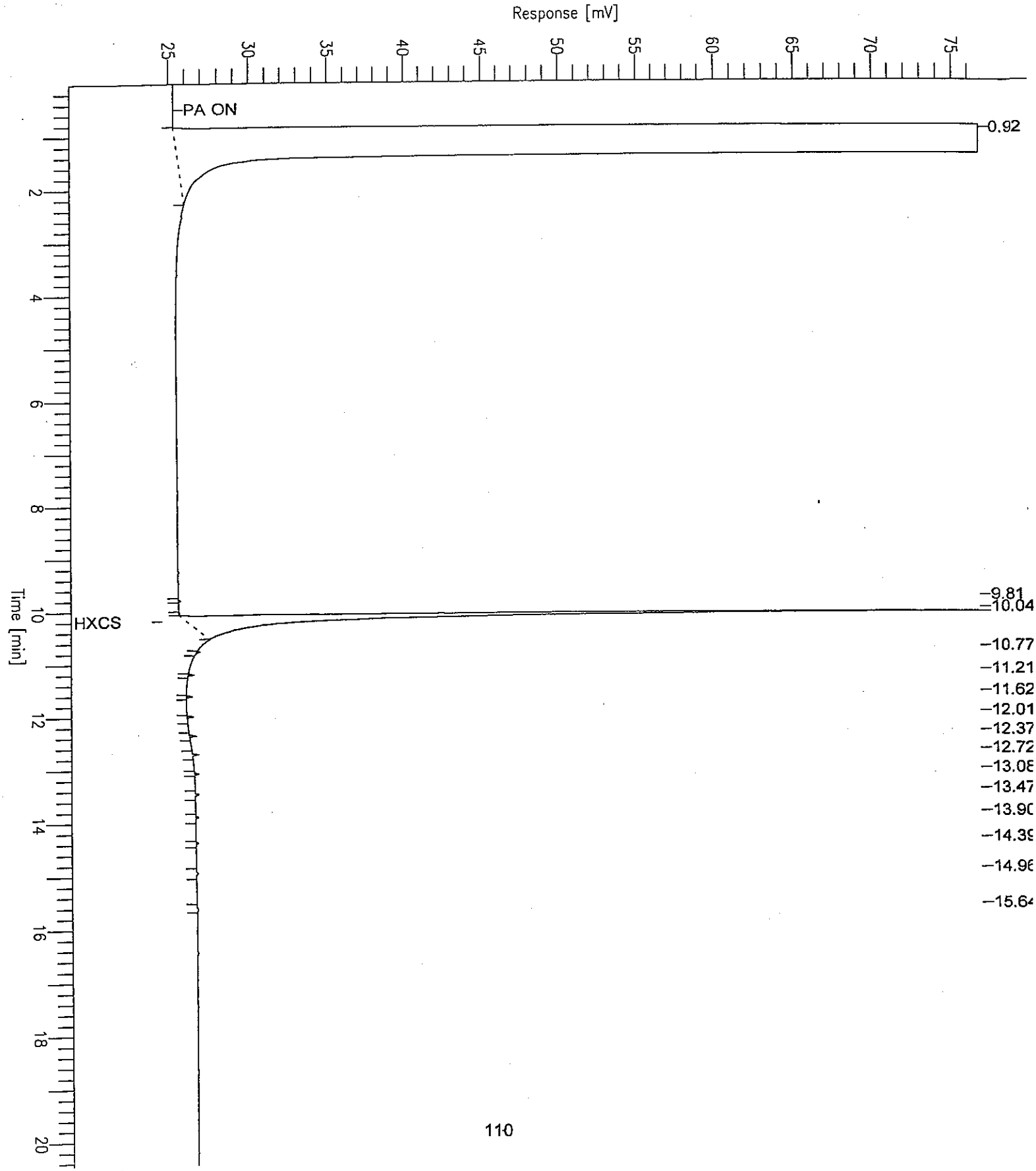
Analyzed By: mm 7/30/04 Reviewed By: CW 7/30/04

Report stored in ASCII file: G:\GC11\CHA\209A011.TX0

Chromatogram

Sample Name : ical,04ws0534,hex
FileName : G:\GC11\CHA\209A011.RAW
Method :
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L
Date : 7/30/04 10:42 AM
Time of Injection: 7/27/04 06:22 PM
Low Point : 24.58 mV High Point : 76.68 mV
Plot Scale: 52.1 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:39 AM
Sample Name : ical,04ws0535,hex
Data File : G:\GC11\CHA\209A012.RAW Date: 7/27/04 06:51 PM
Sequence File: G:\GC11\209.SEQ Cycle: 12 Channel : A
Instrument : GC11 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	676782	25.79	25.7931			10.110	51.5862

CURTIS & TOMPKINS,LTD. BERKELEY

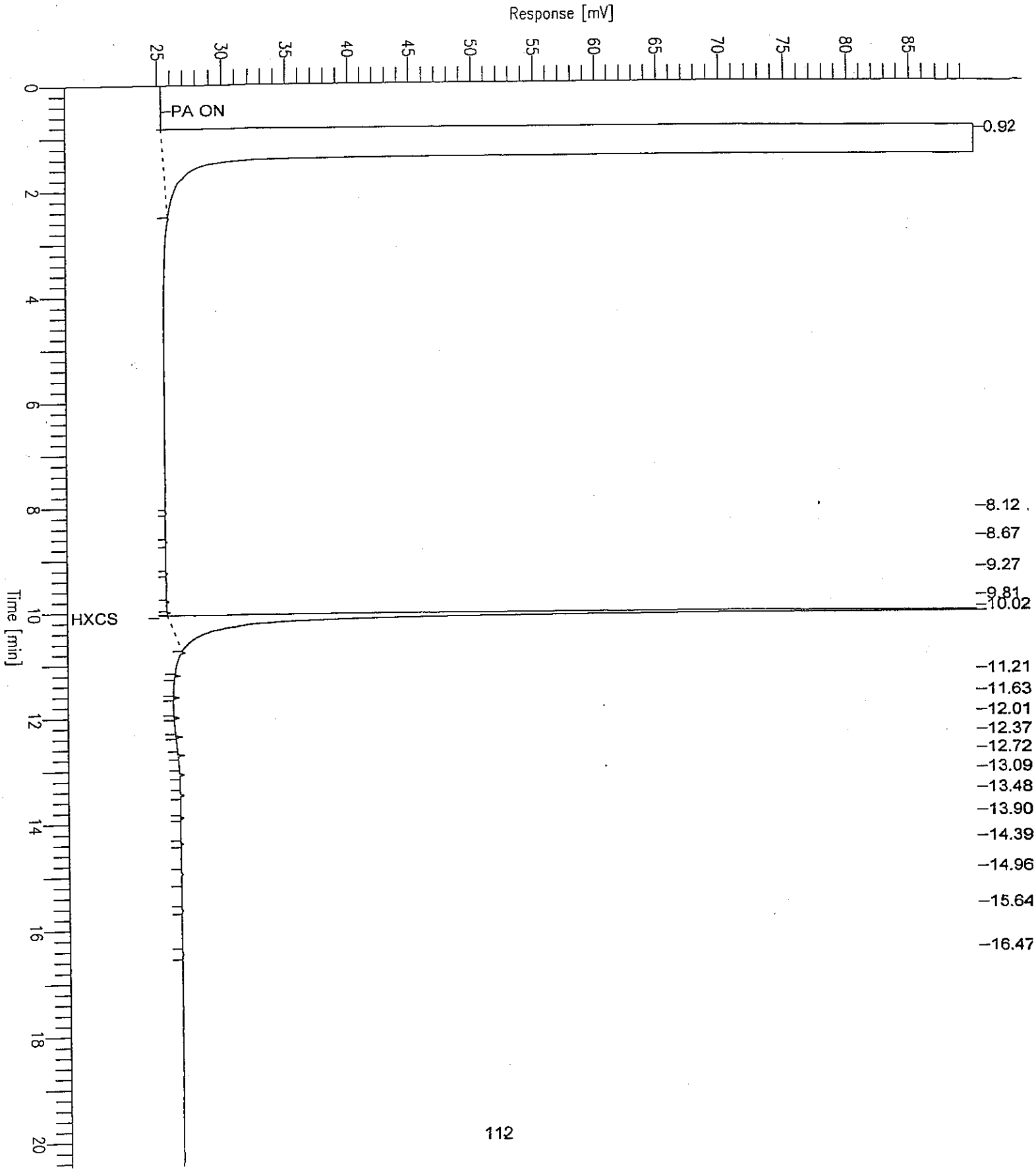
Analyzed By: mm 7/30/04 Reviewed By: CW 7/30/04

Report stored in ASCII file: G:\GC11\CHA\209A012.TX0

Chromatogram

Sample Name : ical,04ws0535,hex
FileName : G:\GC11\CHA\209a012.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 25mg/L
Date : 7/30/04 10:39 AM
Time of Injection: 7/27/04 06:51 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:39 AM
Sample Name : ical,04ws0536,hex
Data File : G:\GC11\CHA\209A013.RAW Date: 7/27/04 07:20 PM
Sequence File: G:\GC11\209.SEQ Cycle: 13 Channel : A
Instrument : GC11 Rack/Vial: 0/13 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1549835	59.07	59.0664			10.130	118.1327

CURTIS & TOMPKINS,LTD. BERKELEY

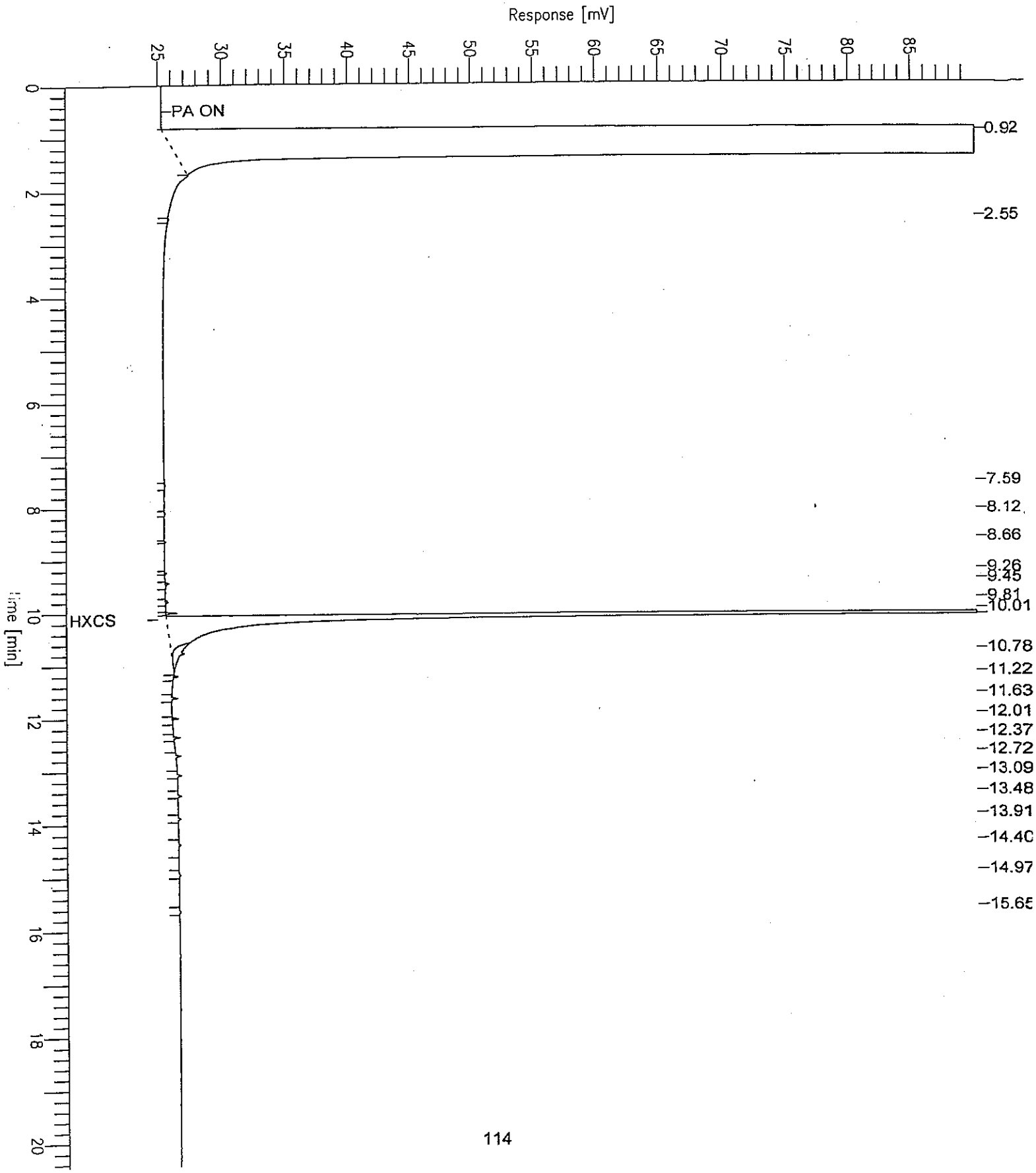
Analyzed By: mmp 7/30/04 Reviewed By: CW 7/30/04

Report stored in ASCII file: G:\GC11\CHA\209A013.TX0

Chromatogram

Sample Name : ical,04ws0536,hex
FileName : G:\GC11\CHA\209a013.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L
Date : 7/30/04 10:39 AM
Time of Injection: 7/27/04 07:20 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:39 AM
Sample Name : ical,04ws0537,hex
Data File : G:\GC11\CHA\209A014.RAW Date: 7/27/04 07:49 PM
Sequence File: G:\GC11\209.SEQ Cycle: 14 Channel : A
Instrument : GC11 Rack/Vial: 0/14 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	2290975	87.31	87.3122		10.142	174.6244

CURTIS & TOMPKINS,LTD. BERKELEY

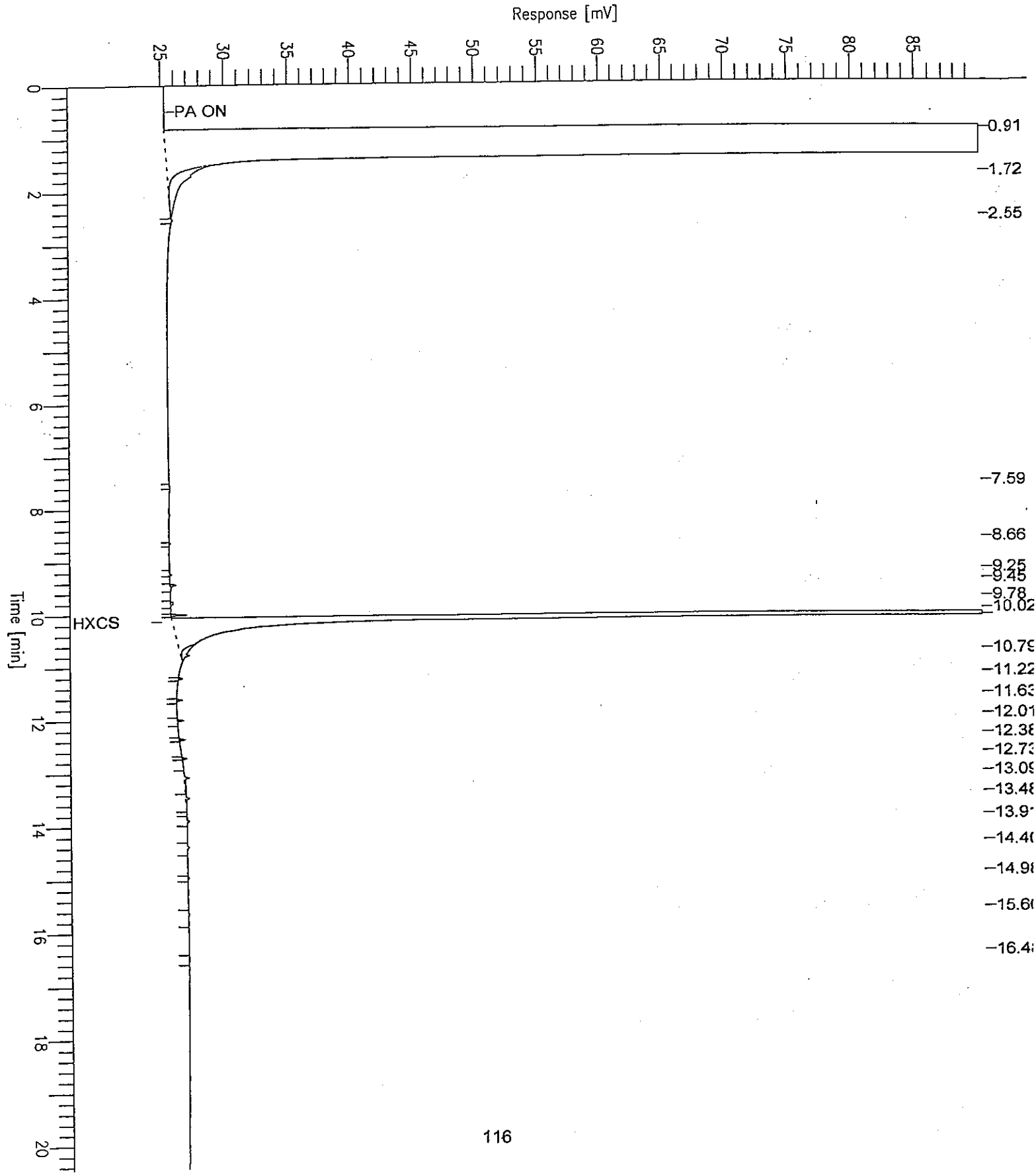
Analyzed By: MMP 7/30/04 Reviewed By: CW 7/30/04

Report stored in ASCII file: G:\GC11\CHA\209A014.TXO

Chromatogram

Sample Name : ical,04ws0537,hex
FileName : G:\GC11\CHA\209a014.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 75mg/L
Date : 7/30/04 10:39 AM
Time of Injection: 7/27/04 07:49 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By:
Calnum: 114306371001 Name: Diesel Type: (normal) Date: 30-JUL-2004 18:40 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	212a002	114306371002	dsl	30-JUL-2004 18:40	04WS1223
2	212a003	114306371003	dsl	30-JUL-2004 19:09	04WS1222
3	212a004	114306371004	dsl	30-JUL-2004 19:38	04WS1221
4	212a005	114306371005	dsl	30-JUL-2004 20:06	04WS1220
5	212a006	114306371006	dsl	30-JUL-2004 20:35	04WS1219
6	212a007	114306371007	dsl	30-JUL-2004 21:04	04WS1218
7	212a008	114306371008	dsl	30-JUL-2004 21:34	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	18157	27618	27627	27314	28204	27618	26553	AVRG	R		3.823E-5		mg/L	26156	14	0.995	20	
Diesel C10-C24	18367	27618	27627	27618	28390	27847	26763	AVRG	R		3.800E-5		mg/L	26319	13	0.995	20	
Diesel C10-C28	18461	27624	27640	27660	28478	27891	26834	AVRG	R		3.792E-5		mg/L	26370	13	0.995	20	
Diesel C12-C22	14658	23061	23163	22884	23688	23929	22902	AVRG	R		4.537E-5		mg/L	22041	15	0.995	20	
Diesel C12-C24	14868	23061	23163	23188	23874	24159	23112	AVRG	R		4.504E-5		mg/L	22204	15	0.995	20	
Diesel C12-C36	15499	23101	23192	23246	23973	24212	23190	AVRG	R		4.475E-5		mg/L	22345	14	0.995	20	

GV. 8/01/04

mmp 08/02/04

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 8/1/04 03:53 PM
Sample Name : ical,04ws1223,dsl
Data File : G:\GC11\CHA\212A002.RAW Date: 7/30/04 06:40 PM
Sequence File: G:\GC11\212.SEQ Cycle: 2 Channel : A
Instrument : GC11 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area (µV·s)	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	92598	2.77	2.7690	1.00	1.00	2.7690
JP5:10-16	92598	4.44	4.4382	1.00	1.00	4.4382
JETA:10-16	92598	4.78	4.7758	1.00	1.00	4.7758
JP8:10-16	92598	4.87	4.8742	1.00	1.00	4.8742
DSL:10-22	181566	7.96	7.9629	1.00	1.00	7.9629
GAIAFP:10-24	183672	4.34	4.3389	1.00	1.00	4.3389
DSL:10-24	183672	7.98	7.9789	1.00	1.00	7.9789
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	146578	7.43	7.4315	1.00	1.00	7.4315
DSL:10-28	184609	7.98	7.9805	1.00	1.00	7.9805
DSL:12-24	148684	7.46	7.4557	1.00	1.00	7.4557
RRFPLH:16-24	91074	13.18	13.1806	1.00	1.00	13.1806
CRUDE:10-40	193624	0.19	0.1936	1.00	1.00	0.1936
TRIMSOL:12-36	154991	6.30	6.2990	1.00	1.00	6.2990
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	158636	8.00	7.9994	1.00	1.00	7.9994
BUNKC:12-40	158636	20.53	20.5320	1.00	1.00	20.5320
TRANSOIL:12-40	158636	3.40	3.4041	1.00	1.00	3.4041
MO:22-32	4714	0.24	0.2383	1.00	1.00	0.2383
MO:20-36	8413	0.34	0.3429	1.00	1.00	0.3429
MO:22-36	8413	0.38	0.3840	1.00	1.00	0.3840
HYFL:24-36	6307	0.44	0.4413	1.00	1.00	0.4413
TPHHF:24-36	6307	6.31e-10	6.3071e-10	1.00	1.00	6.3071e-10
MO:24-36	6307	0.36	0.3595	1.00	1.00	0.3595
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

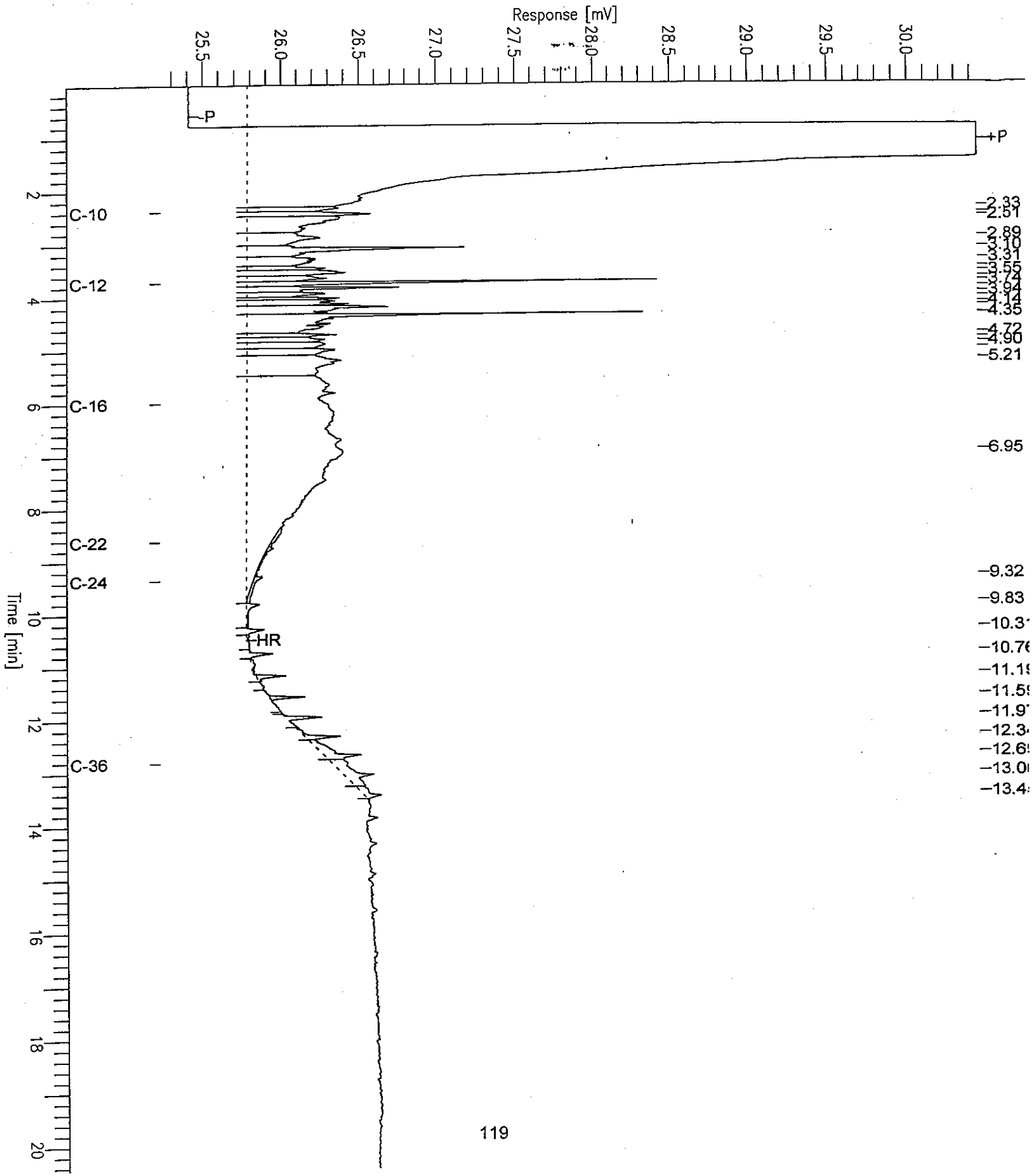
Analyzed By: 8/01/04 Reviewed By:

Report stored in ASCII file: G:\GC11\CHA\212A002P.TX0

Chromatogram

Sample Name : ical,04ws1223,dsl
FileName : G:\GC11\CHA\212A002.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L
Date : 8/1/04 03:53 PM
Time of Injection: 7/30/04 06:40 PM
Low Point : 25.23 mV High Point : 30.44 mV
Plot Scale: 5.2 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:54 PM
Sample Name : ical,04ws1222,dsl
Data File : G:\GC11\CHA\212A003.RAW Date: 7/30/04 07:09 PM
Sequence File: G:\GC11\212.SEQ Cycle: 3 Channel : A
Instrument : GC11 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area (µV·s)	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	1889158	56.49	56.4927	1.00	1.00	56.4927
JP5:10-16	1889158	90.55	90.5466	1.00	1.00	90.5466
JETA:10-16	1889158	97.43	97.4345	1.00	1.00	97.4345
JP8:10-16	1889158	99.44	99.4425	1.00	1.00	99.4425
DSL:10-22	2761806	121.12	121.1245	1.00	1.00	121.1245
GAIAFP:10-24	2761806	65.24	65.2431	1.00	1.00	65.2431
DSL:10-24	2761806	119.98	119.9761	1.00	1.00	119.9761
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2306092	116.92	116.9183	1.00	1.00	116.9183
DSL:10-28	2762363	119.42	119.4156	1.00	1.00	119.4156
DSL:12-24	2306092	115.64	115.6388	1.00	1.00	115.6388
RRFPLH:16-24	872648	126.29	126.2936	1.00	1.00	126.2936
CRUDE:10-40	2767017	2.77	2.7670	1.00	1.00	2.7670
TRIMSOL:12-36	2310064	93.88	93.8841	1.00	1.00	93.8841
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	2311303	116.55	116.5495	1.00	1.00	116.5495
BUNKC:12-40	2311303	299.15	299.1476	1.00	1.00	299.1476
TRANSOIL:12-40	2311303	49.60	49.5974	1.00	1.00	49.5974
MO:22-32	1844	0.09	0.0932	1.00	1.00	0.0932
MO:20-36	133766	5.45	5.4522	1.00	1.00	5.4522
MO:22-36	3972	0.18	0.1813	1.00	1.00	0.1813
HYFL:24-36	3972	0.28	0.2779	1.00	1.00	0.2779
TPHHF:24-36	3972	3.97e-10	3.9720e-10	1.00	1.00	3.9720e-10
MO:24-36	3972	0.23	0.2264	1.00	1.00	0.2264
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

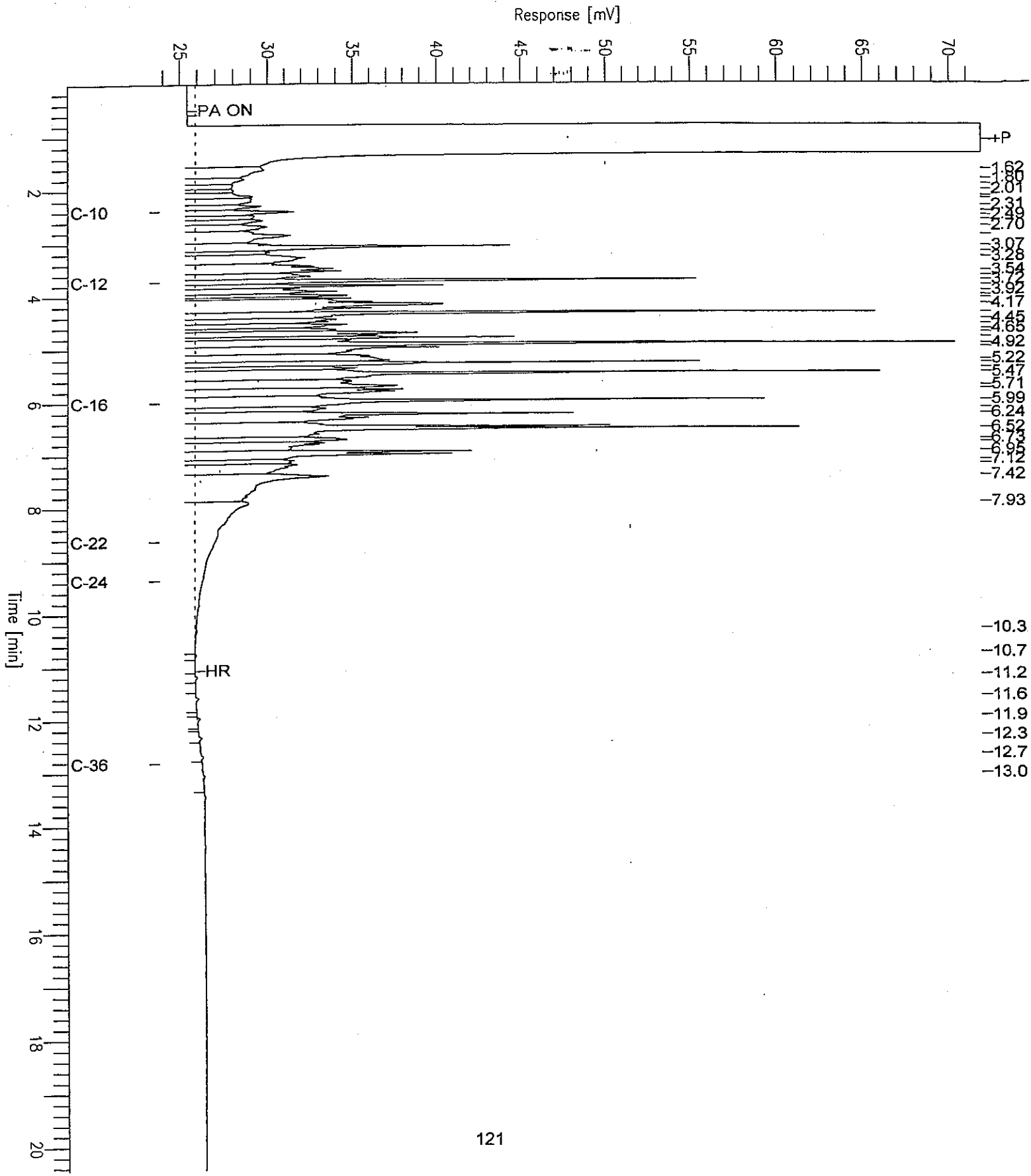
Analyzed By: GV. 8/01/04 Reviewed By: mmp 8/02/04

Report stored in ASCII file: G:\GC11\CHA\212A003P.TX0

Chromatogram

Sample Name : ical,04wsl222,dsl
FileName : G:\GC11\CHA\212A003.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 100mg/L Page 1 of 1
Date : 8/1/04 03:54 PM
Time of Injection: 7/30/04 07:09 PM
Low Point : 23.81 mV High Point : 71.86 mV
Plot Scale: 48.1 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:54 PM
Sample Name : ical,04ws1221,dsl
Data File : G:\GC11\CHA\212A004.RAW Date: 7/30/04 07:38 PM
Sequence File: G:\GC11\212.SEQ Cycle: 4 Channel : A
Instrument : GC11 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	4762343	142.41	142.4114	1.00	1.00	142.4114
JP5:10-16	4762343	228.26	228.2571	1.00	1.00	228.2571
JETA:10-16	4762343	245.62	245.6208	1.00	1.00	245.6208
JP8:10-16	4762343	250.68	250.6827	1.00	1.00	250.6827
DSL:10-22	6906686	302.91	302.9064	1.00	1.00	302.9064
GAIAFP:10-24	6906686	163.16	163.1590	1.00	1.00	163.1590
DSL:10-24	6906686	300.03	300.0346	1.00	1.00	300.0346
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	5790716	293.59	293.5879	1.00	1.00	293.5879
DSL:10-28	6910114	298.72	298.7208	1.00	1.00	298.7208
DSL:12-24	5790716	290.37	290.3749	1.00	1.00	290.3749
RRFPLH:16-24	2144344	310.34	310.3391	1.00	1.00	310.3391
CRUDE:10-40	6914780	6.91	6.9148	1.00	1.00	6.9148
TRIMSOL:12-36	5798008	235.64	235.6389	1.00	1.00	235.6389
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	5798811	292.41	292.4102	1.00	1.00	292.4102
BUNKC:12-40	5798811	750.53	750.5292	1.00	1.00	750.5292
TRANSOIL:12-40	5798811	124.43	124.4346	1.00	1.00	124.4346
MO:22-32	5207	0.26	0.2632	1.00	1.00	0.2632
MO:20-36	242365	9.88	9.8787	1.00	1.00	9.8787
MO:22-36	7291	0.33	0.3328	1.00	1.00	0.3328
HYFL:24-36	7291	0.51	0.5102	1.00	1.00	0.5102
TPHHF:24-36	7291	7.29e-10	7.2911e-10	1.00	1.00	7.2911e-10
MO:24-36	7291	0.42	0.4156	1.00	1.00	0.4156
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

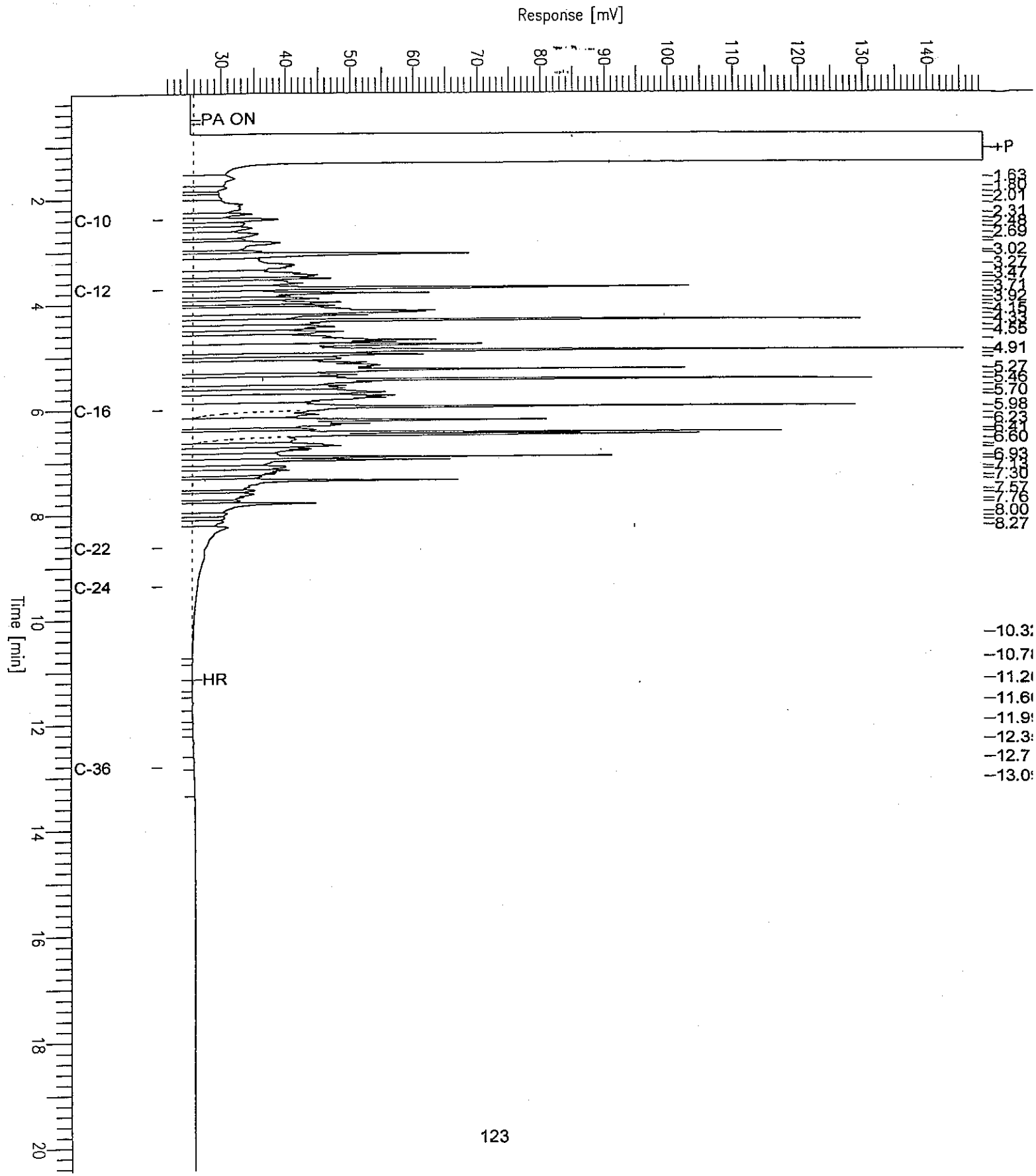
Analyzed By: 8/01/04 Reviewed By:

Report stored in ASCII file: G:\GC11\CHA\212A004P.TX0

Chromatogram

Sample Name : ical,04ws1221,dsl
FileName : G:\GC11\CHA\212A004.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 21 mV

Sample #: 250mg/L
Date : 8/1/04 03:54 PM
Time of Injection: 7/30/04 07:38 PM
Low Point : 21.31 mV High Point : 148.56 mV
Plot Scale: 127.2 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:55 PM
Sample Name : ical,04ws1220,dsl
Data File : G:\GC11\CHA\212A005.RAW Date: 7/30/04 08:06 PM
Sequence File: G:\GC11\212.SEQ Cycle: 5 Channel : A
Instrument : GC11 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	9513474	284.49	284.4875	1.00	1.00	284.4875
JP5:10-16	9513474	455.98	455.9769	1.00	1.00	455.9769
JETA:10-16	9513474	490.66	490.6635	1.00	1.00	490.6635
JP8:10-16	9513474	500.78	500.7752	1.00	1.00	500.7752
DSL:10-22	13657124	598.96	598.9603	1.00	1.00	598.9603
GAIAFP:10-24	13809162	326.22	326.2185	1.00	1.00	326.2185
DSL:10-24	13809162	599.89	599.8864	1.00	1.00	599.8864
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	11442182	580.12	580.1159	1.00	1.00	580.1159
DSL:10-28	13829824	597.86	597.8564	1.00	1.00	597.8564
DSL:12-24	11594220	581.39	581.3911	1.00	1.00	581.3911
RRFPLH:16-24	4295688	621.69	621.6914	1.00	1.00	621.6914
CRUDE:10-40	13843543	13.84	13.8435	1.00	1.00	13.8435
TRIMSOL:12-36	11623017	472.38	472.3751	1.00	1.00	472.3751
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	11628601	586.38	586.3826	1.00	1.00	586.3826
BUNKC:12-40	11628601	1505.07	1505.0680	1.00	1.00	1505.0680
TRANSOIL:12-40	11628601	249.53	249.5340	1.00	1.00	249.5340
MO:22-32	177053	8.95	8.9498	1.00	1.00	8.9498
MO:20-36	542199	22.10	22.0998	1.00	1.00	22.0998
MO:22-36	180836	8.26	8.2551	1.00	1.00	8.2551
HYFL:24-36	28797	2.02	2.0150	1.00	1.00	2.0150
TPHHF:24-36	28797	2.88e-09	2.8797e-09	1.00	1.00	2.8797e-09
MO:24-36	28797	1.64	1.6416	1.00	1.00	1.6416
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: GV. 8/01/04 Reviewed By: mmp 8/02/04

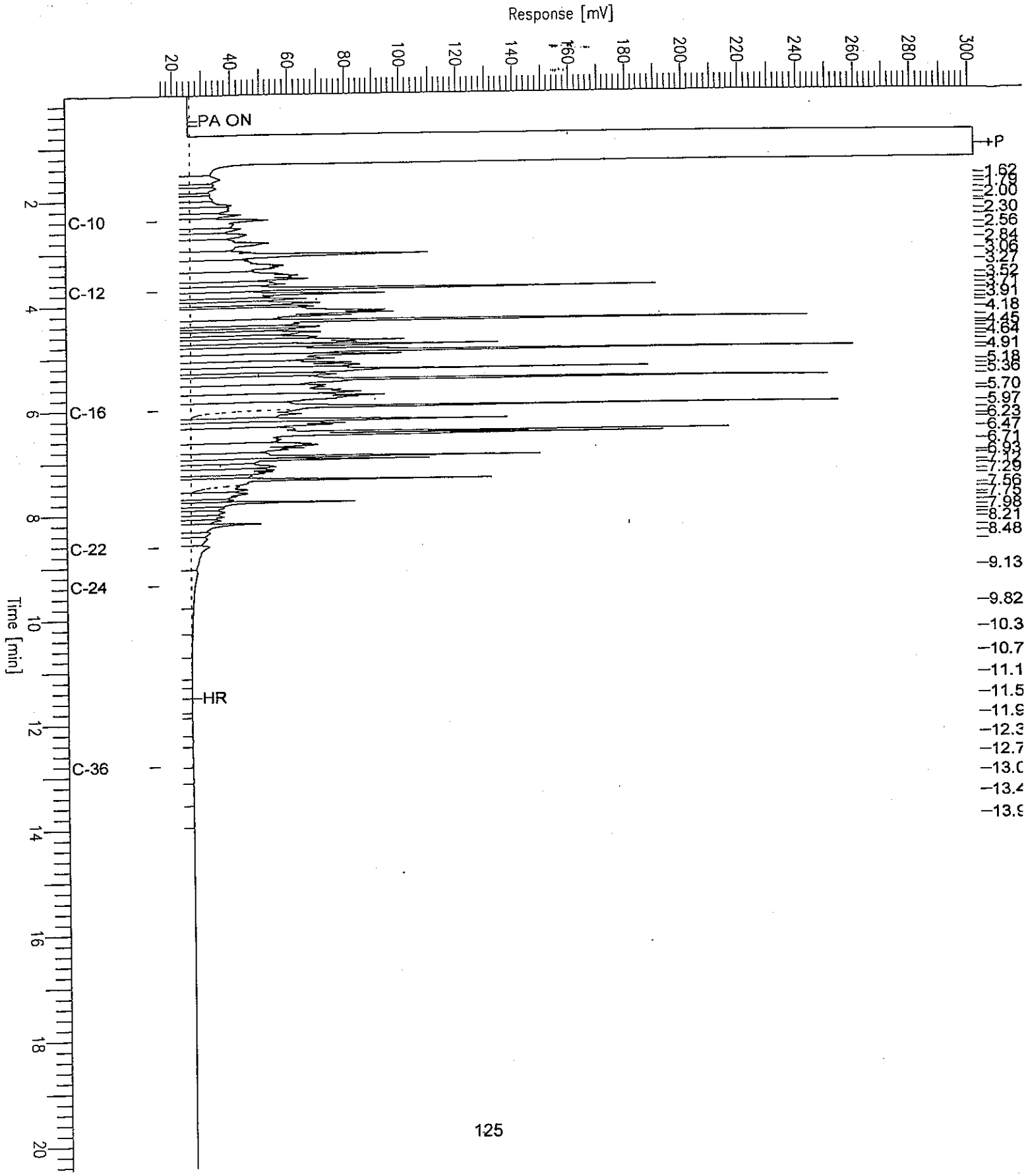
Report stored in ASCII file: G:\GC11\CHA\212A005P.TXO

Chromatogram

Sample Name : ical,04wsl220,dsl
FileName : G:\GC11\CHA\212A005.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 14 mV

Sample #: 500mg/L
Date : 8/1/04 03:55 PM
Time of Injection: 7/30/04 08:06 PM
Low Point : 14.49 mV
Plot Scale: 287.3 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:55 PM
Sample Name : ical,04ws1219,dsl
Data File : G:\GC11\CHA\212A006.RAW Date: 7/30/04 08:35 PM
Sequence File: G:\GC11\212.SEQ Cycle: 6 Channel : A
Instrument : GC11 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	19541953	584.38	584.3755	1.00	1.00	584.3755
JP5:10-16	19541953	936.64	936.6377	1.00	1.00	936.6377
JETA:10-16	19541953	1007.89	1007.8887	1.00	1.00	1007.8887
JP8:10-16	19541953	1028.66	1028.6596	1.00	1.00	1028.6596
DSL:10-22	28203952	1236.94	1236.9403	1.00	1.00	1236.9403
GAIAFP:10-24	28390399	670.68	670.6759	1.00	1.00	670.6759
DSL:10-24	28390399	1233.31	1233.3125	1.00	1.00	1233.3125
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	23687620	1200.96	1200.9567	1.00	1.00	1200.9567
DSL:10-28	28478419	1231.11	1231.1079	1.00	1.00	1231.1079
DSL:12-24	23874068	1197.16	1197.1629	1.00	1.00	1197.1629
RRFFLH:16-24	8848446	1280.59	1280.5871	1.00	1.00	1280.5871
CRUDE:10-40	28489509	28.49	28.4895	1.00	1.00	28.4895
TRIMSOL:12-36	23972826	974.29	974.2880	1.00	1.00	974.2880
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	23973177	1208.87	1208.8690	1.00	1.00	1208.8690
BUNKC:12-40	23973177	3102.80	3102.8034	1.00	1.00	3102.8034
TRANSOIL:12-40	23973177	514.43	514.4319	1.00	1.00	514.4319
MO:22-32	283645	14.34	14.3378	1.00	1.00	14.3378
MO:20-36	1062189	43.29	43.2944	1.00	1.00	43.2944
MO:22-36	285206	13.02	13.0196	1.00	1.00	13.0196
HYFL:24-36	98758	6.91	6.9104	1.00	1.00	6.9104
TPHHF:24-36	98758	9.88e-09	9.8758e-09	1.00	1.00	9.8758e-09
MO:24-36	98758	5.63	5.6298	1.00	1.00	5.6298
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

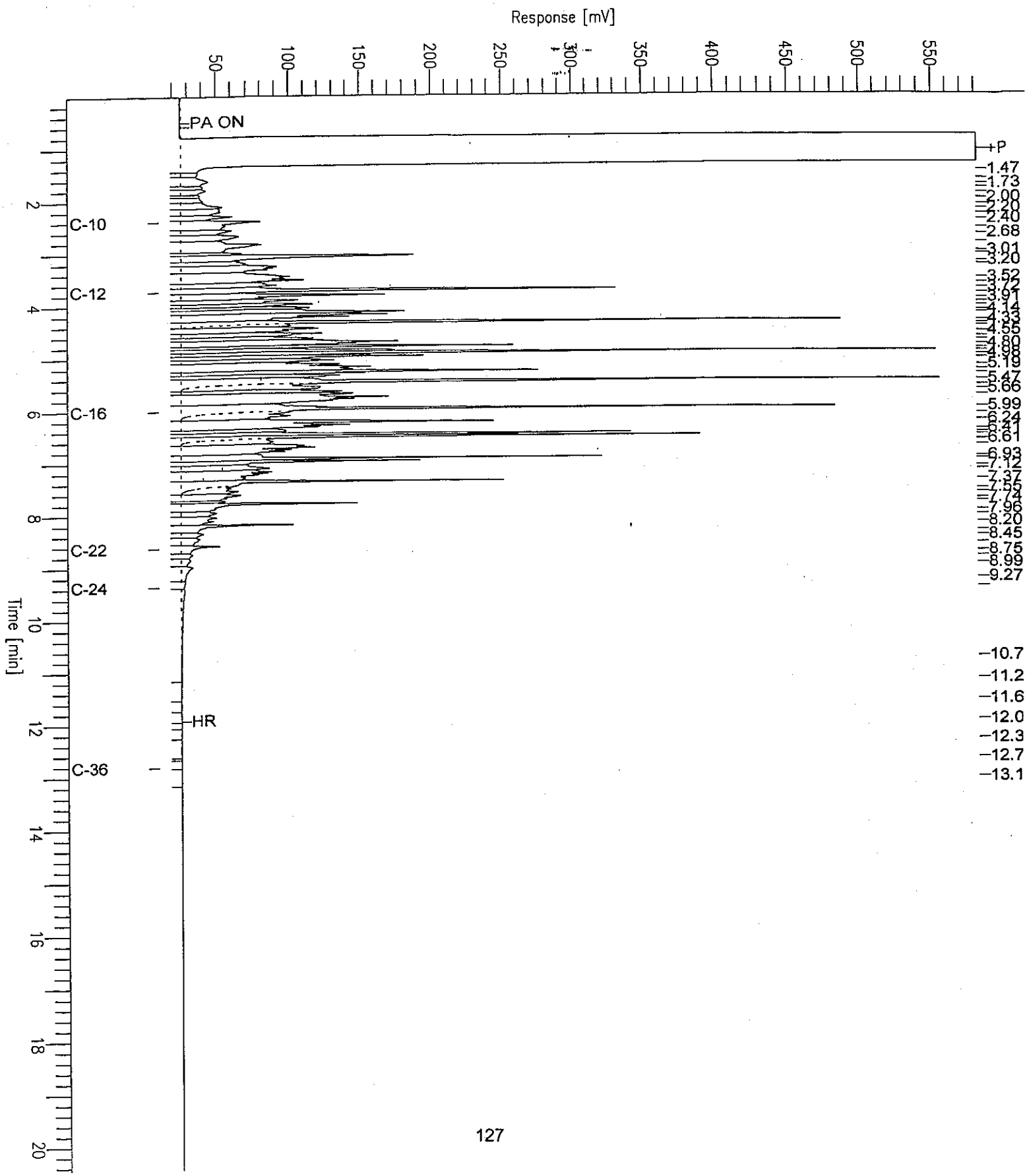
Analyzed By: 8/01/04 Reviewed By:

Report stored in ASCII file: G:\GC11\CHA\212A006P.TX0

Chromatogram

Sample Name : ical,04ws1219,dsl
FileName : G:\GC11\CHA\212A006.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 1000mg/L
Date : 8/1/04 03:55 PM
Time of Injection: 7/30/04 08:35 PM
Low Point : 10.75 mV High Point : 581.61 mV
Plot Scale: 570.9 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:56 PM
Sample Name : ical,04ws1218,dsl
Data File : G:\GC11\CHA\212A007.RAW Date: 7/30/04 09:04 PM
Sequence File: G:\GC11\212.SEQ Cycle: 7 Channel : A
Instrument : GC11 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	48460801	1449.15	1449.1542	1.00	1.00	1449.1542
JP5:10-16	48460801	2322.71	2322.7061	1.00	1.00	2322.7061
JETA:10-16	48460801	2499.40	2499.3966	1.00	1.00	2499.3966
JP8:10-16	48460801	2550.91	2550.9052	1.00	1.00	2550.9052
DSL:10-22	69044217	3028.07	3028.0712	1.00	1.00	3028.0712
GAIAFP:10-24	69617172	1644.59	1644.5898	1.00	1.00	1644.5898
DSL:10-24	69617172	3024.25	3024.2524	1.00	1.00	3024.2524
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	59823557	3033.04	3033.0400	1.00	1.00	3033.0400
DSL:10-28	69728617	3014.33	3014.3334	1.00	1.00	3014.3334
DSL:12-24	60396513	3028.58	3028.5775	1.00	1.00	3028.5775
RRFPLH:16-24	21156371	3061.85	3061.8457	1.00	1.00	3061.8457
CRUDE:10-40	69752491	69.75	69.7525	1.00	1.00	69.7525
TRIMSOL:12-36	60530571	2460.04	2460.0442	1.00	1.00	2460.0442
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	60531831	3052.37	3052.3720	1.00	1.00	3052.3720
BUNKC:12-40	60531831	7834.52	7834.5215	1.00	1.00	7834.5215
TRANSOIL:12-40	60531831	1298.93	1298.9312	1.00	1.00	1298.9312
MO:22-32	704925	35.63	35.6328	1.00	1.00	35.6328
MO:20-36	2778871	113.27	113.2657	1.00	1.00	113.2657
MO:22-36	707014	32.28	32.2750	1.00	1.00	32.2750
HYFL:24-36	134058	9.38	9.3804	1.00	1.00	9.3804
TPHHF:24-36	134058	1.34e-08	1.3406e-08	1.00	1.00	1.3406e-08
MO:24-36	134058	7.64	7.6421	1.00	1.00	7.6421
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

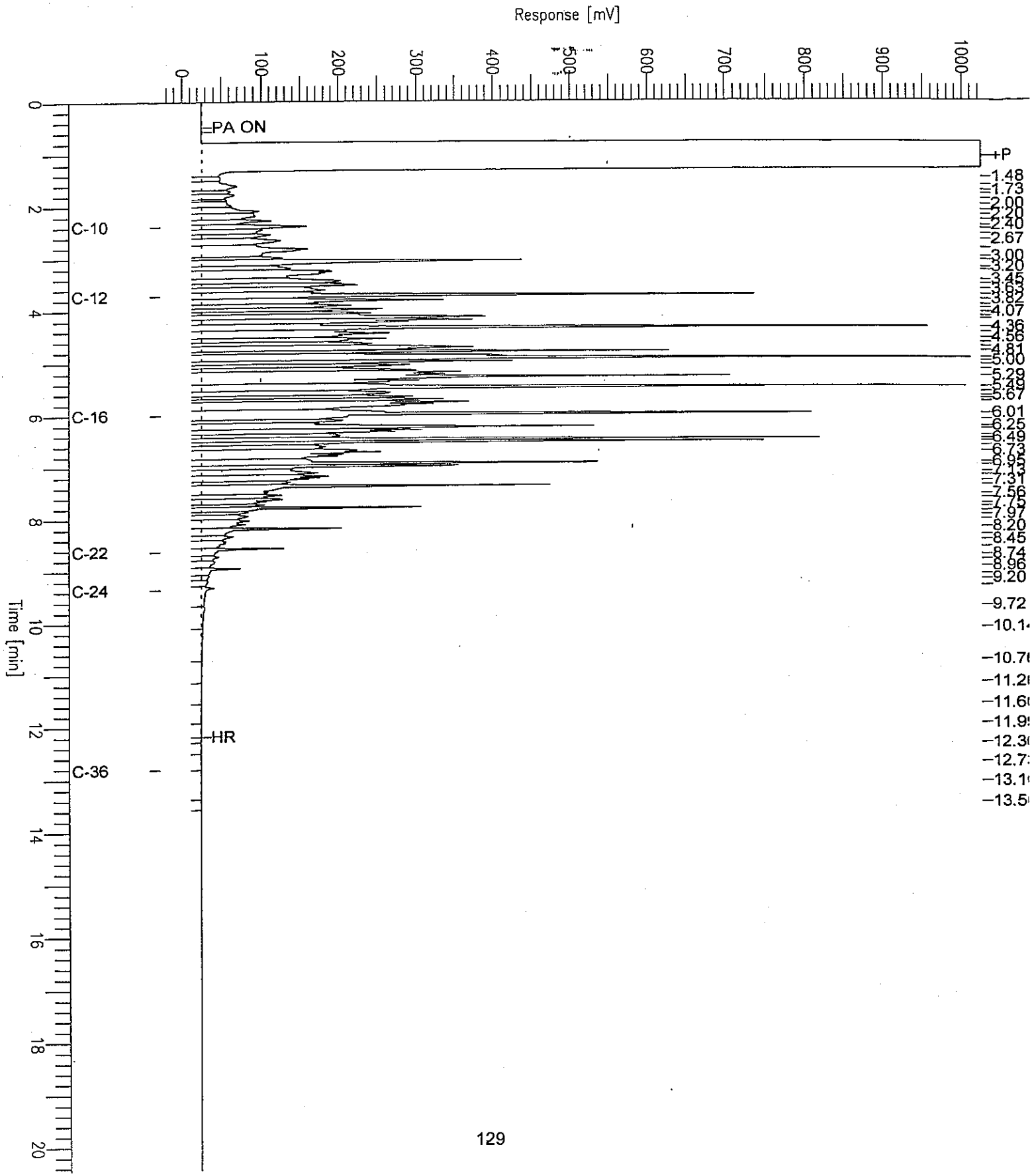
Analyzed By: SV. 8/01/04 Reviewed By: [illegible]

Report stored in ASCII file: G:\GC11\CHA\212A007P.TXO

Chromatogram

Sample Name : ical,04ws1218,dsl
FileName : G:\GC11\CHA\212A007.RAW
Method : ATEH211S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 2500mg/L Page 1 of 1
Date : 8/1/04 03:56 PM
Time of Injection: 7/30/04 09:04 PM
Low Point : -27.09 mV High Point : 1024.00 mV
Plot Scale: 1051.1 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:56 PM
Sample Name : ical,04ws1217,dsl
Data File : G:\GC11\CHA\212A008.RAW Date: 7/30/04 09:34 PM
Sequence File: G:\GC11\212.SEQ Cycle: 8 Channel : A
Instrument : GC11 Rack/Vial: 0/8 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	86617196	2590.17	2590.1692	1.00	1.00	2590.1692
JP5:10-16	86617196	4151.53	4151.5264	1.00	1.00	4151.5264
JETA:10-16	86617196	4467.34	4467.3369	1.00	1.00	4467.3369
JP8:10-16	86617196	4559.40	4559.4016	1.00	1.00	4559.4016
DSL:10-22	132764529	5822.65	5822.6520	1.00	1.00	5822.6520
GAIAFP:10-24	133813558	3161.12	3161.1224	1.00	1.00	3161.1224
DSL:10-24	133813558	5813.02	5813.0194	1.00	1.00	5813.0194
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	114510901	5805.68	5805.6752	1.00	1.00	5805.6752
DSL:10-28	134168273	5800.03	5800.0278	1.00	1.00	5800.0278
DSL:12-24	115559929	5794.74	5794.7419	1.00	1.00	5794.7419
RRFPLH:16-24	47196362	6830.47	6830.4708	1.00	1.00	6830.4708
CRUDE:10-40	134206311	134.21	134.2063	1.00	1.00	134.2063
TRIMSOL:12-36	115952327	4712.46	4712.4593	1.00	1.00	4712.4593
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	115952683	5847.02	5847.0183	1.00	1.00	5847.0183
BUNKC:12-40	115952683	15007.54	15007.5384	1.00	1.00	15007.5384
TRANSOIL:12-40	115952683	2488.19	2488.1876	1.00	1.00	2488.1876
MO:22-32	1439326	72.76	72.7555	1.00	1.00	72.7555
MO:20-36	5223569	212.91	212.9107	1.00	1.00	212.9107
MO:22-36	1441426	65.80	65.8008	1.00	1.00	65.8008
HYFL:24-36	392398	27.46	27.4572	1.00	1.00	27.4572
TPHHF:24-36	392398	3.92e-08	3.9240e-08	1.00	1.00	3.9240e-08
MO:24-36	392398	22.37	22.3689	1.00	1.00	22.3689
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

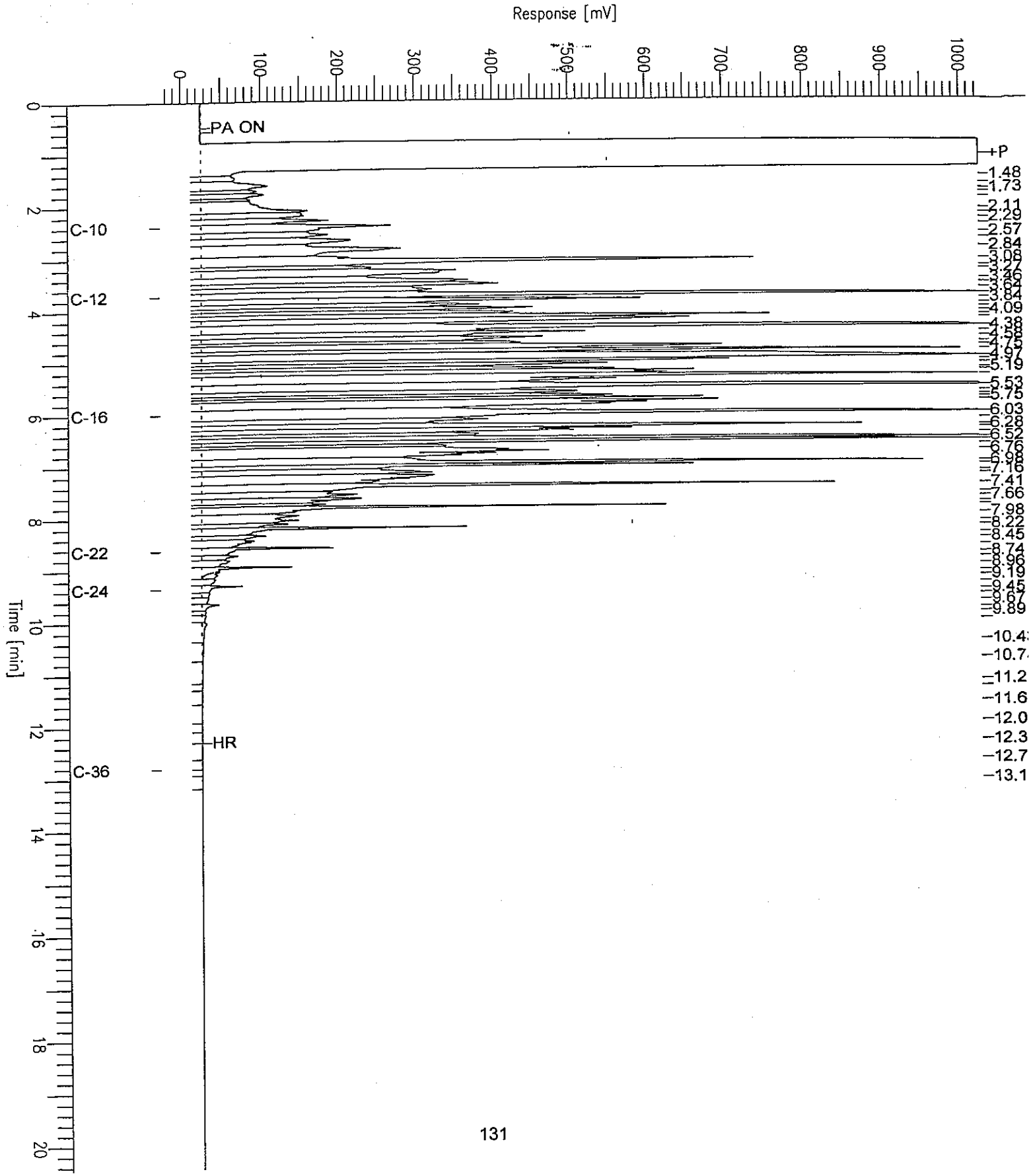
Analyzed By: SV. 8/01/04 Reviewed By: mmcstfadon

Report stored in ASCII file: G:\GC11\CHA\212A008P.TXO

Chromatogram

Sample Name : ical,04ws1217,dsl
FileName : G:\GC11\CHA\212A008.RAW
Method : ATEH211S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 5000mg/L
Date : 8/1/04 03:56 PM
Time of Injection: 7/30/04 09:34 PM
Low Point : -27.11 mV High Point : 1024.00 mV
Plot Scale: 1051.1 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC11A
Seqnum : 114306371010

Run Name : dsl
Filename : 212a010

Injected : 30-JUL-2004 22:32
Caltype :

Standards: 04WS0983

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Flags
Diesel C10-C22	114306371001	30-JUL-2004	500.0000	482.0125	mg/L	-4	
Diesel C10-C24	114306371001	30-JUL-2004	500.0000	482.5697	mg/L	-3	
Diesel C10-C28	114306371001	30-JUL-2004	500.0000	483.1695	mg/L	-3	
Diesel C12-C22	114306371001	30-JUL-2004	500.0000	479.0919	mg/L	-4	
Diesel C12-C24	114306371001	30-JUL-2004	500.0000	479.7737	mg/L	-4	
Diesel C12-C36	114306371001	30-JUL-2004	500.0000	478.7795	mg/L	-4	
Hexacosane	114301759001	27-JUL-2004	50.00000	52.56334	mg/L	5	

12700565 / 26318.61144 = 482.56973

Sr. 8/14/04

/mmp 8/02/05

Software Version: 4.1<2F12>
Date: 8/1/04 04:00 PM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC11\CHA\212A010.RAW Date: 7/30/04 10:32 PM
Sequence File: G:\GC11\212.SEQ Cycle: 10 Channel : A
Instrument : GC11 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	8717566	260.69	260.6869	1.00	1.00	260.6869
JP5:10-16	8717566	417.83	417.8293	1.00	1.00	417.8293
JETA:10-16	8717566	449.61	449.6140	1.00	1.00	449.6140
JP8:10-16	8717566	458.88	458.8798	1.00	1.00	458.8798
DSL:10-22	12607395	482.01	482.0124	1.00	1.00	482.0124
GAIAFP:10-24	12700565	300.03	300.0297	1.00	1.00	300.0297
DSL:10-24	12700565	482.57	482.5697	1.00	1.00	482.5697
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10559539	479.09	479.0917	1.00	1.00	479.0917
DSL:10-28	14206601	538.75	538.7465	1.00	1.00	538.7465
DSL:12-24	10652710	479.77	479.7737	1.00	1.00	479.7737
RRFPLH:16-24	3982999	576.44	576.4377	1.00	1.00	576.4377
CRUDE:10-40	14212005	14.21	14.2120	1.00	1.00	14.2120
TRIMSOL:12-36	12163761	494.35	494.3517	1.00	1.00	494.3517
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	12164149	613.39	613.3882	1.00	1.00	613.3882
BUNKC:12-40	12164149	1574.38	1574.3830	1.00	1.00	1574.3830
TRANSOIL:12-40	12164149	261.03	261.0262	1.00	1.00	261.0262
MO:22-32	1603087	81.03	81.0334	1.00	1.00	81.0334
MO:20-36	1996681	81.38	81.3840	1.00	1.00	81.3840
MO:22-36	1604222	73.23	73.2324	1.00	1.00	73.2324
HYFL:24-36	1511051	105.73	105.7325	1.00	1.00	105.7325
TPHHF:24-36	1511051	1.51e-07	1.5111e-07	1.00	1.00	1.5111e-07
MO:24-36	1511051	86.14	86.1385	1.00	1.00	86.1385
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: G. V. 8/01/04 Reviewed By: mmp 8/02/04

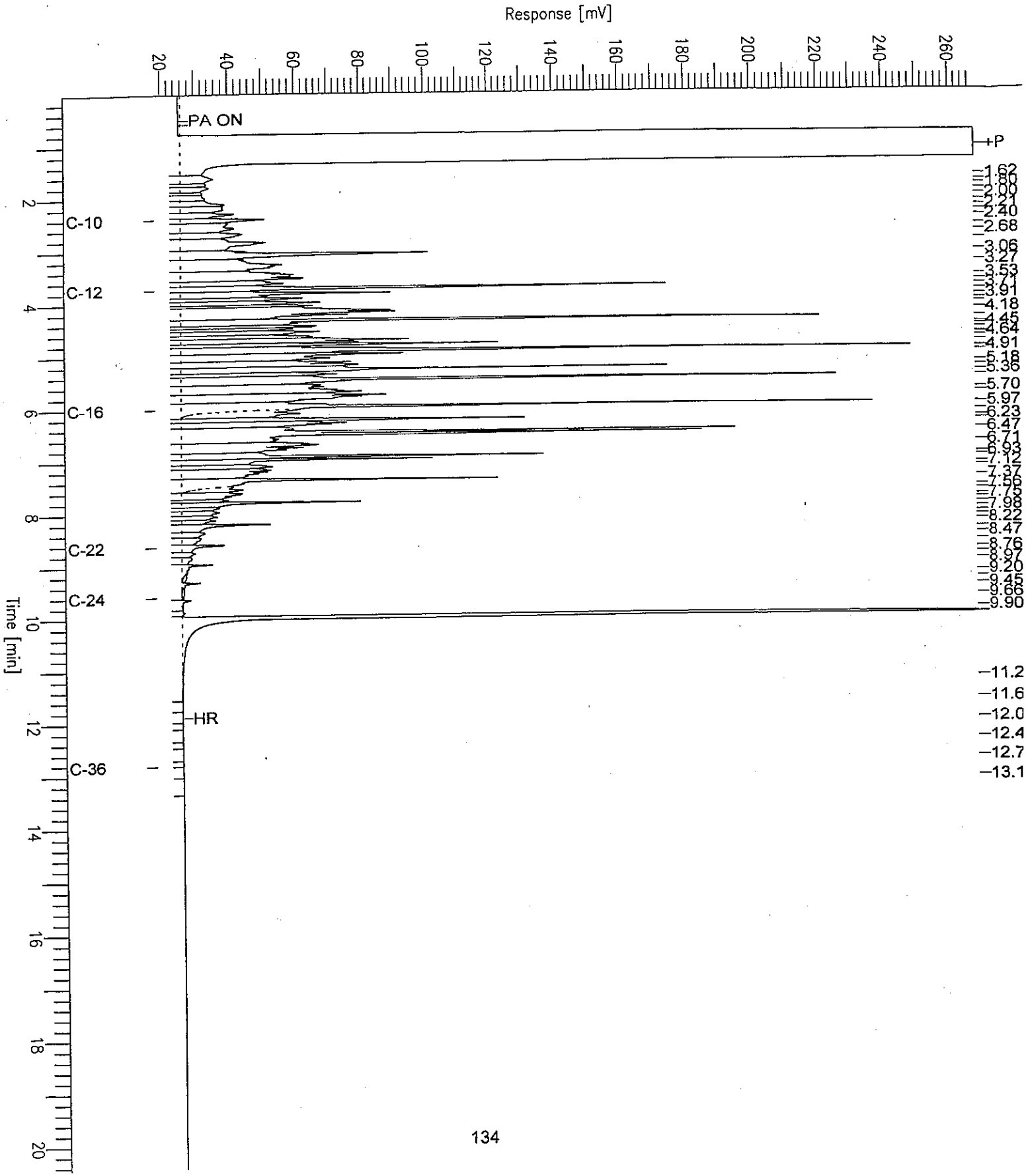
Report stored in ASCII file: G:\GC11\CHA\212A010P.TXO

Chromatogram

Sample Name : icv,04ws0983,dsl
FileName : G:\GC11\CHA\212A010.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 18 mV

Sample #: 500mg/L
Date : 8/1/04 04:00 PM
Time of Injection: 7/30/04 10:32 PM
Low Point : 18.26 mV
Plot Scale: 249.6 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:53 PM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC11\CHA\212A010.RAW Date: 7/30/04 10:32 PM
Sequence File: G:\GC11\212.SEQ Cycle: 10 Channel : A
Instrument : GC11 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1465548	52.56	52.5633			10.012	105.1267

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: G.V. 8/02/04 Reviewed By: mmp 8/2/04

Report stored in ASCII file: G:\GC11\CHA\212A010.TX0

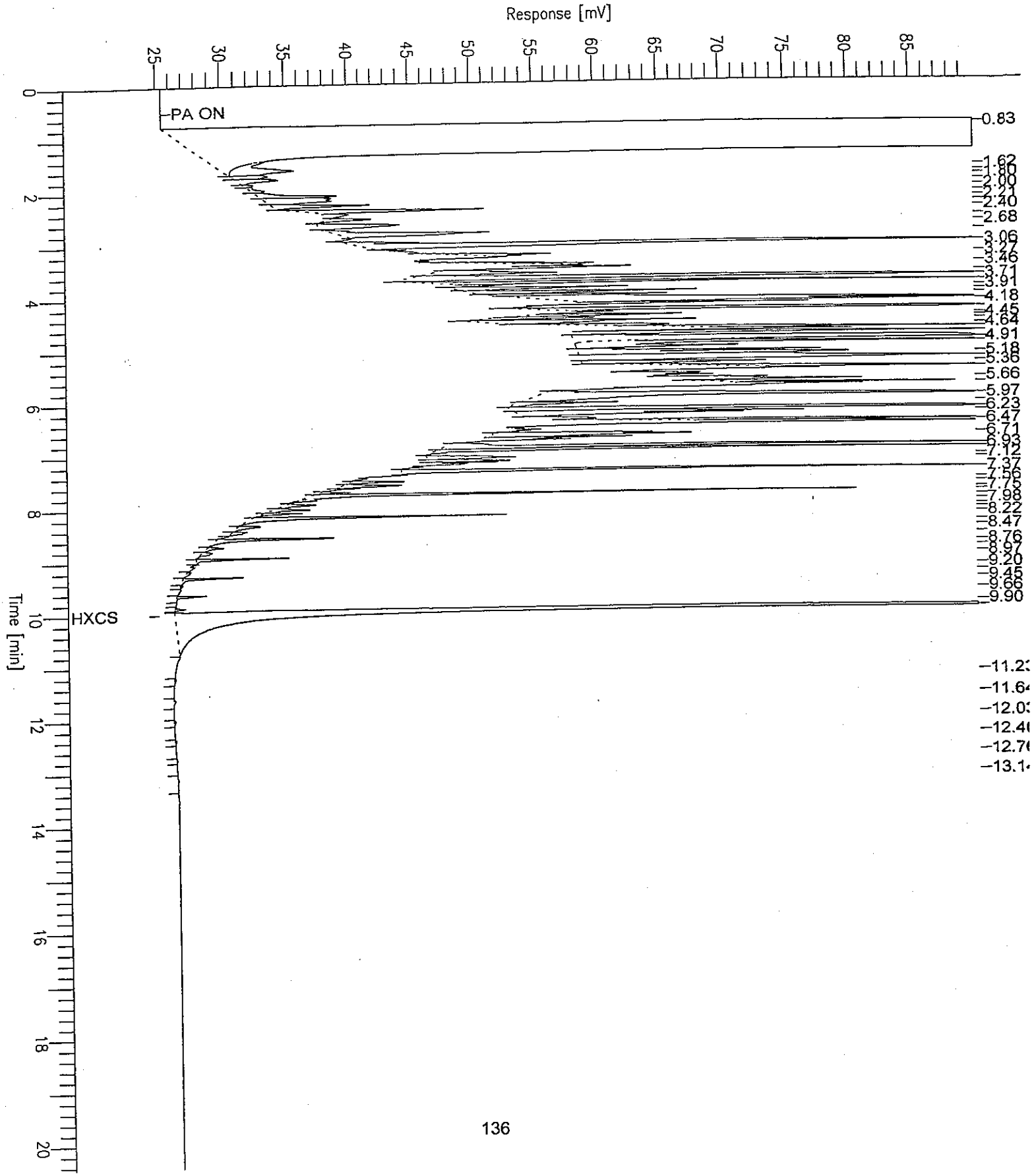
Chromatogram

Sample Name : icv,04ws0983,dsl
FileName : G:\GC11\CHA\212A010.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 7/30/04 10:53 PM
Time of Injection: 7/30/04 10:32 PM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



Software Version: 4.1<2F12>
Sample Name : c10-16
Sample Number:
Operator :

Time : 8/8/04 02:20 PM
Study :

Instrument : GC15
AutoSampler : HP7673A
Rack/Vial : 0/2

Channel : B A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 8/5/04 05:47 PM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC15\CHB\218B002.RAW
Result File : C:\WINDOWS\TEMP\~RST1316.RST
Inst Method : G:\GC15\20MINB from C:\WINDOWS\TEMP\~RST1316.RST
Proc Method : G:\GC15\BTEH212S.MTH
Calib Method : G:\GC15\BTEH212S.MTH
Sequence File : G:\GC15\218.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
1	2.372	1835.25	299.47	0.04	0.04	BV	6.13
2	2.548	666605.97	142683.05	14.81	14.81	VB	4.67
3	3.562	575.24	254.07	0.01	0.01	BV	2.26
4	3.652	2947.08	1364.38	0.07	0.07	VB	2.16
5	3.753	465.42	181.41	0.01	0.01	BV	2.57
6	3.839	934129.57	528277.02	20.75	20.75	VB	1.77
7	4.747	897.45	540.27	0.02	0.02	BB	1.66
8	4.840	5379.45	4169.59	0.12	0.12	BB	1.29
9	5.014	1255515.87	715699.03	27.89	27.89	BB	1.75
10	5.807	3140.63	1250.37	0.07	0.07	BV	2.51
11	5.893	7412.44	6724.00	0.16	0.16	VB	1.10
12	6.058	1595347.53	770824.73	35.44	35.44	BB	2.07
0	6.088	0.00	0.00	0.00	0.00		------
13	6.509	1319.07	548.96	0.03	0.03	BB	2.40
14	6.664	443.69	200.50	0.01	0.01	BB	2.21
15	6.837	479.62	177.00	0.01	0.01	BV	2.71
16	7.000	1131.62	223.47	0.03	0.03	VB	5.06

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
17	7.150	263.48	158.56	0.01	0.01	BB	1.66
18	7.379	412.82	147.08	0.01	0.01	BB	2.81
19	7.662	334.26	112.51	0.01	0.01	BB	2.97
20	7.754	1769.77	473.48	0.04	0.04	BB	3.74
21	8.430	818.21	221.56	0.02	0.02	BV	3.69
22	8.519	1740.47	288.95	0.04	0.04	VB	6.02
0	8.631	0.00	0.00	0.00	0.00		------
23	9.193	171.53	105.61	0.00	0.00	BB	1.62
0	9.342	0.00	0.00	0.00	0.00		------
24	9.656	243.08	142.83	0.01	0.01	BB	1.70
25	9.929	1498.51	743.44	0.03	0.03	BB	2.02
26	10.572	1308.61	600.09	0.03	0.03	BB	2.18
27	10.719	372.91	115.06	0.01	0.01	BB	3.24
28	10.774	252.79	173.87	0.01	0.01	BV	1.45
29	10.826	136.19	86.64	0.00	0.00	VB	1.57
30	10.914	449.62	131.53	0.01	0.01	BV	3.42
31	10.976	341.85	196.77	0.01	0.01	VB	1.74
32	11.108	730.63	190.64	0.02	0.02	BB	3.83
33	11.233	926.04	293.47	0.02	0.02	BV	3.16
34	11.280	830.21	364.12	0.02	0.02	VV	2.28
35	11.351	1533.97	371.23	0.03	0.03	VV	4.13
36	11.455	1884.36	647.33	0.04	0.04	VV	2.91
37	11.518	1027.27	311.37	0.02	0.02	VV	3.30
38	11.636	725.58	242.46	0.02	0.02	VB	2.99
39	11.719	510.54	215.81	0.01	0.01	BV	2.37
40	11.769	648.47	235.69	0.01	0.01	VV	2.75
41	11.892	767.47	242.96	0.02	0.02	VV	3.16
42	11.966	1066.27	463.78	0.02	0.02	VV	2.30
43	12.025	523.71	363.11	0.01	0.01	VB	1.44
44	12.148	379.79	201.71	0.01	0.01	BB	1.88
45	12.266	148.19	132.51	0.00	0.00	BB	1.12
46	12.478	158.91	123.89	0.00	0.00	BB	1.28
47	12.644	244.22	121.79	0.01	0.01	BB	2.01
0	12.704	0.00	0.00	0.00	0.00		------
48	13.044	239.57	142.92	0.01	0.01	BB	1.68
49	13.479	238.87	117.97	0.01	0.01	BB	2.02
50	13.971	300.59	147.81	0.01	0.01	BB	2.03
51	14.543	326.10	147.44	0.01	0.01	BB	2.21
52	15.220	363.47	146.03	0.01	0.01	BB	2.49
53	16.044	369.72	127.92	0.01	0.01	BB	2.89
54	17.055	353.46	98.93	0.01	0.01	BB	3.57
		4502037.43	2.18e+06	100.00	100.00		

Missing Component Report

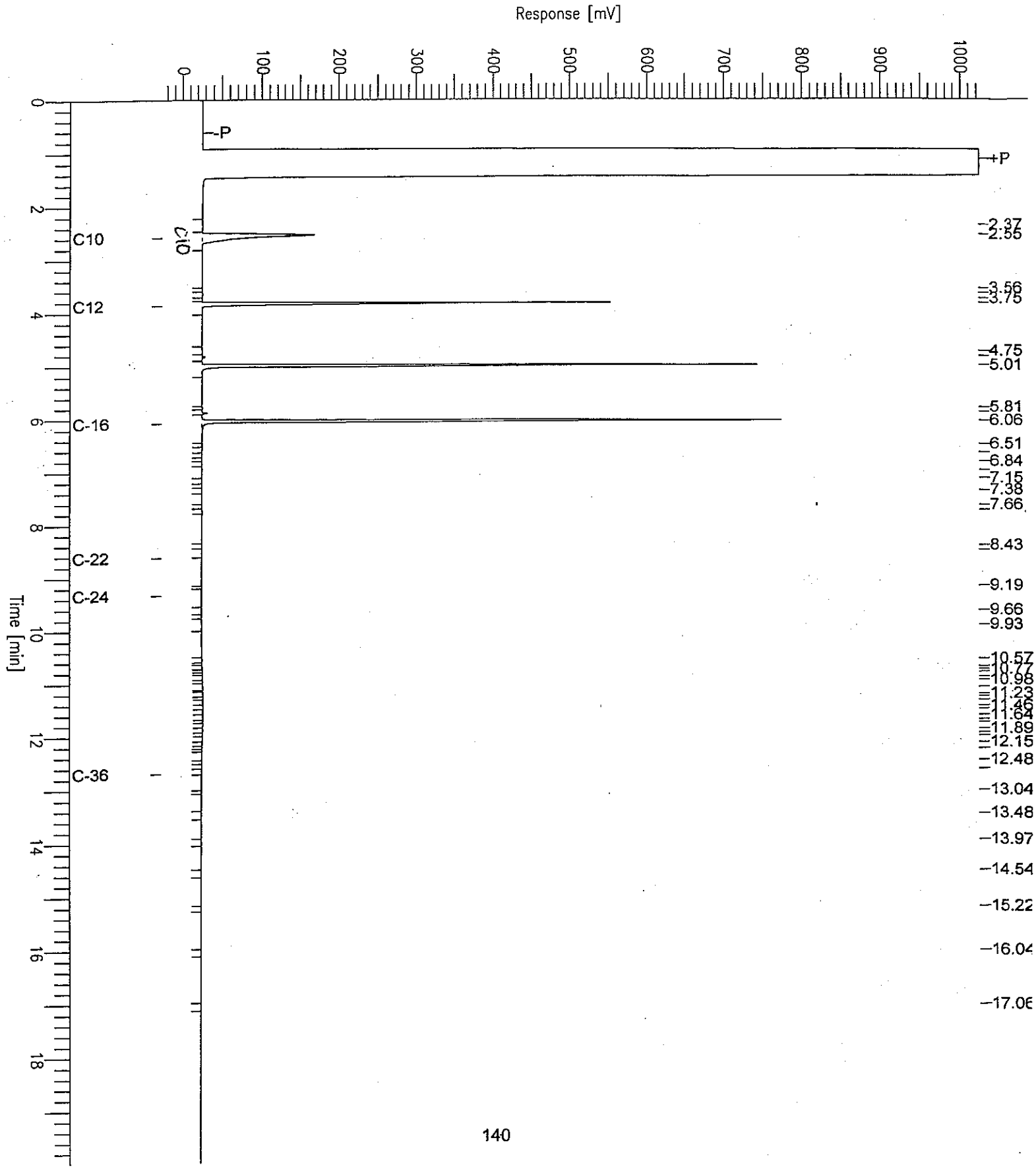
Component	Expected Retention (Calibration File)
C-16	6.088

C-22	8.631
C-24	9.342
C-36	12.704

Chromatogram

Sample Name : c10-16
FileName : G:\GC15\CHB\218B002.RAW
Method : BTEH212S.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -26 mV

Sample #:
Date : 8/8/04 02:20 PM
Time of Injection: 8/5/04 05:47 PM
Low Point : -26.32 mV High Point : 1024.00 mV
Plot Scale: 1050.3 mV



Software Version: 4.1<2F12>
Sample Name : c12-60
Sample Number:
Operator :

Time : 8/8/04 02:21 PM
Study :

Instrument : GC15
AutoSampler : HP7673A
Rack/Vial : 0/3

Channel : B A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 8/5/04 06:15 PM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC15\CHB\218B003.RAW
Result File : C:\WINDOWS\TEMP\~RST1316.RST
Inst Method : G:\GC15\20MINB from C:\WINDOWS\TEMP\~RST1316.RST
Proc Method : G:\GC15\BTEH212S.MTH
Calib Method : G:\GC15\BTEH212S.MTH
Sequence File : G:\GC15\218.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

	Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
	1	2.546	921.42	221.38	0.00	0.00	BB	4.16
	2	3.559	2463.70	1066.61	0.01	0.01	BV	2.31
	3	3.647	10217.76	4513.79	0.04	0.04	VB	2.26
C12	4	3.848	1884858.39	958254.32	7.45	7.45	BE	1.97
	5	3.987	3235.25	633.30	0.01	0.01	EB	5.11
	6	4.435	517.40	241.57	0.00	0.00	BB	2.14
	7	4.522	275.22	171.88	0.00	0.00	BB	1.60
	8	4.661	240.59	121.45	1e-03	9.51e-04	BB	1.98
	9	4.745	2347.98	1445.81	0.01	0.01	BV	1.62
	10	4.837	10396.99	6848.35	0.04	0.04	VB	1.52
C14	11	5.023	1983238.06	1.05e+06	7.84	7.84	BB	1.90
	12	5.546	221.52	143.79	9e-04	8.76e-04	BB	1.54
	13	5.802	900.13	406.52	0.00	0.00	BB	2.21
	14	5.892	6671.87	5880.62	0.03	0.03	BB	1.13
C16	15	6.063	2087354.15	1.04e+06	8.25	8.25	BB	2.00
	0	6.088	0.00	0.00	0.00	0.00		------
	16	6.519	218.53	139.93	9e-04	8.64e-04	BB	1.56

	Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
	17	6.720	5273.22	2409.95	0.02	0.02	BB	2.19
	18	6.830	12251.23	7121.60	0.05	0.05	BV	1.72
18	19	6.994	2175263.58	1.02e+06	8.60	8.60	VB	2.13
	20	7.322	2083.74	666.75	0.01	0.01	BV	3.13
	21	7.386	635.38	468.82	0.00	0.00	VB	1.36
	22	7.481	334.99	180.96	0.00	0.00	BV	1.85
	23	7.569	1258.97	543.55	0.00	0.00	VB	2.32
20	24	7.835	2203141.32	1.04e+06	8.71	8.71	BB	2.12
	25	8.347	688.68	372.40	0.00	0.00	BB	1.85
	26	8.466	1091.91	741.31	0.00	0.00	BV	1.47
22	27	8.604	2235085.26	891702.96	8.83	8.83	VB	2.51
	0	8.631	0.00	0.00	0.00	0.00		------
	28	8.923	1658.31	869.21	0.01	0.01	BB	1.91
	29	9.060	795.29	421.86	0.00	0.00	BB	1.89
	30	9.179	2780.12	1782.19	0.01	0.01	BV	1.56
24	31	9.314	2220199.72	966974.21	8.78	8.78	VB	2.30
	0	9.342	0.00	0.00	0.00	0.00		------
	32	9.601	2094.71	1079.97	0.01	0.01	BV	1.94
	33	9.653	302.97	254.25	0.00	0.00	VB	1.19
	34	9.841	1980.12	1301.85	0.01	0.01	BV	1.52
26	35	9.969	2204521.41	995818.11	8.71	8.71	VV	2.21
	36	10.134	257.32	203.05	0.00	0.00	VB	1.27
	37	10.234	5035.24	2839.27	0.02	0.02	BB	1.77
	38	10.457	1668.27	1055.04	0.01	0.01	BV	1.58
28	39	10.577	2161811.11	808800.85	8.54	8.54	VB	2.67
	40	10.822	5516.61	3226.97	0.02	0.02	BB	1.71
	41	10.956	344.78	100.35	0.00	0.00	BB	3.44
	42	11.032	5348.39	3012.79	0.02	0.02	BV	1.78
30	43	11.145	2137865.68	835547.85	8.45	8.45	VB	2.56
	44	11.372	7169.76	5264.81	0.03	0.03	BB	1.36
	45	11.447	903.50	511.04	0.00	0.00	BB	1.77
32	46	11.677	2041857.66	817311.71	8.07	8.07	BB	2.50
	47	11.840	1218.78	878.81	0.00	0.00	BV	1.39
	48	11.891	7500.37	5174.40	0.03	0.03	VB	1.45
	49	11.987	212.98	141.04	8e-04	8.42e-04	BB	1.51
	50	12.135	74663.65	51387.54	0.30	0.30	BV	1.45
	51	12.223	2193.04	1040.02	0.01	0.01	VV	2.11
	52	12.387	5711.06	3316.79	0.02	0.02	VV	1.72
	53	12.489	799.46	380.94	0.00	0.00	VV	2.10
36	54	12.689	1226893.57	502647.26	4.85	4.85	VV	2.44
	0	12.704	0.00	0.00	0.00	0.00		------
	55	12.770	4101.30	2615.21	0.02	0.02	VB	1.57
	56	12.935	328.08	154.16	0.00	0.00	BV	2.13
	57	13.013	2555.69	1413.13	0.01	0.01	VB	1.81
	58	13.179	2336.20	811.76	0.01	0.01	BV	2.88
	59	13.237	5832.74	2747.11	0.02	0.02	VV	2.12
	60	13.438	3194.99	1667.29	0.01	0.01	VB	1.92
	61	13.567	365.38	144.59	0.00	0.00	BB	2.53
	62	13.713	349.95	153.16	0.00	0.00	BB	2.28

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
63	13.821	558.83	230.29	0.00	0.00	BV	2.43
10 64	13.961	368135.53	134541.15	1.46	1.46	VV	2.74
65	14.100	8659.30	3482.43	0.03	0.03	VB	2.49
66	14.358	552.68	211.38	0.00	0.00	BV	2.61
67	14.509	1810.12	662.49	0.01	0.01	VB	2.73
68	14.837	1868.86	576.80	0.01	0.01	BB	3.24
69	15.203	1230.82	389.71	0.00	0.00	BB	3.16
70	15.383	1033.78	291.91	0.00	0.00	BB	3.54
71	15.837	513.32	118.39	0.00	0.00	BV	4.34
14 72	16.040	140173.89	36374.33	0.55	0.55	VB	3.85
73	16.757	549.79	104.93	0.00	0.00	BB	5.24
74	17.018	662.91	179.03	0.00	0.00	BB	3.70
75	17.609	432.97	84.38	0.00	0.00	BB	5.13
76	18.260	605.78	125.89	0.00	0.00	BB	4.81
77	18.607	450.06	71.79	0.00	0.00	BB	6.27
78	19.778	1753.32	312.45	0.01	0.01	BB	5.61
		25300547.40	1.12e+07	100.00	100.00		

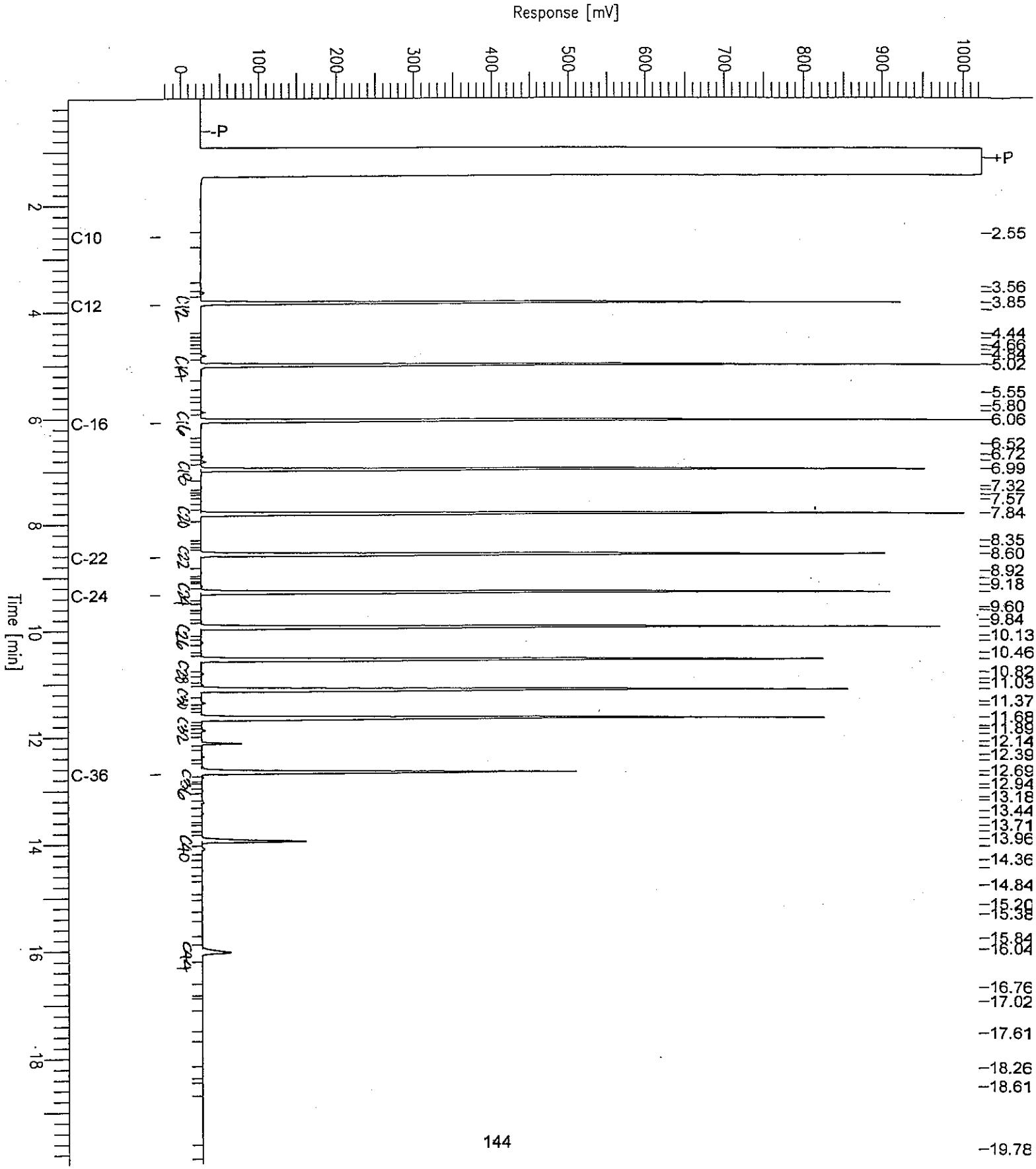
Missing Component Report

Component	Expected Retention (Calibration File)
C-16	6.088
C-22	8.631
C-24	9.342
C-36	12.704

Chromatogram

Sample Name : c12-60
FileName : G:\GC15\CHB\218B003.RAW
Method : BTEH212S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: Page 1 of 1
Date : 8/8/04 02:21 PM
Time of Injection: 8/5/04 06:15 PM
Low Point : -26.52 mV High Point : 1024.00 mV
Plot Scale: 1050.5 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By:
Calnum: 164283116001 Name: diesel Type: (normal) Date: 14-JUL-2004 15:05 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b002	164283116002	dsl	14-JUL-2004 15:05	04WS1223
2	196b003	164283116003	dsl	14-JUL-2004 15:33	04WS1222
3	196b004	164283116004	dsl	14-JUL-2004 16:02	04WS1221
4	196b005	164283116005	dsl	14-JUL-2004 16:31	04WS1220
5	196b006	164283116006	dsl	14-JUL-2004 17:00	04WS1219
6	196b007	164283116007	dsl	14-JUL-2004 17:29	04WS1218
7	196b008	164283116008	dsl	14-JUL-2004 17:58	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	18446	21499	20824	20800	22542	21235	21471	AVRG	R		4.768E-5		mg/L	20974	6	0.995	20	
Diesel C10-C24	18446	21647	20984	20983	22719	21423	21646	AVRG	R		4.735E-5		mg/L	21121	6	0.995	20	
Diesel C10-C28	18446	21651	21007	21027	22770	21472	21698	AVRG	R		4.727E-5		mg/L	21153	6	0.995	20	
Diesel C10-C20	18446	20933	20228	20231	21906	20674	20874	AVRG	R		4.885E-5		mg/L	20470	5	0.995	20	
Diesel C12-C22	15496	18153	17621	17586	19118	18365	18507	AVRG	R		5.607E-5		mg/L	17835	6	0.995	20	
Diesel C12-C24	15496	18301	17781	17768	19295	18553	18683	AVRG	R		5.561E-5		mg/L	17983	7	0.995	20	
Diesel C12-C32	15496	18306	17804	17812	19346	18604	18740	AVRG	R		5.551E-5		mg/L	18016	7	0.995	20	

BTH 7/15/04

CW 7/16/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/15/04 12:08 PM
Sample Name : ical,04ws1223,dsl
Data File : G:\GC15\CHB\196B002.RAW Date: 7/14/04 03:05 PM
Sequence File: G:\GC15\196.SEQ Cycle: 2 Channel : B
Instrument : GC15 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.589	*VV	2773	0.00	1.0000	0.0028	1.0000	0.0028
JETA:10-16	4.340		131902	1.32e-07	1.0000	1.3190e-07	1.0000	1.3190e-07
JP8:10-16	4.340		131902	1.32e-07	1.0000	1.3190e-07	1.0000	1.3190e-07
JP5:10-16	4.340		131902	6.23	1.0000	6.2345	1.0000	6.2345
KER:10-16	4.340		131902	1.32e-06	1.0000	1.3190e-06	1.0000	1.3190e-06
DSL:10-20	5.226		184463	10.63	1.0000	10.6287	1.0000	10.6287
DSL:10-22	5.612		184463	10.75	1.0000	10.7518	1.0000	10.7518
GAIAFP:10-24	5.967		184463	1.84e-06	1.0000	1.8446e-06	1.0000	1.8446e-06
DSL:10-24	5.967		184463	10.38	1.0000	10.3769	1.0000	10.3769
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.254		154964	1.55e-07	1.0000	1.5496e-07	1.0000	1.5496e-07
DSL:12-22	6.254		154964	10.77	1.0000	10.7678	1.0000	10.7678
DSL:10-28	6.600		184463	10.37	1.0000	10.3673	1.0000	10.3673
DSL:12-24	6.610		154964	10.71	1.0000	10.7141	1.0000	10.7141
DSL:12-32	7.787		154964	10.70	1.0000	10.7018	1.0000	10.7018
CRUDE:10-40	8.300		184463	6.49	1.0000	6.4883	1.0000	6.4883
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		154964	1.55e-07	1.0000	1.5496e-07	1.0000	1.5496e-07
HYFL:12-40	8.944		154964	1.55e-06	1.0000	1.5496e-06	1.0000	1.5496e-06
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:20-36	10.283		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-36	10.668		0	0.00	1.0000	0.0000	1.0000	0.0000
TPHHF:24-36	11.023		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:24-36	11.023		0	0.00	1.0000	0.0000	1.0000	0.0000
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			2566942					87.0339

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: BTH Reviewed By: 7/15/04 CW 7/16/04

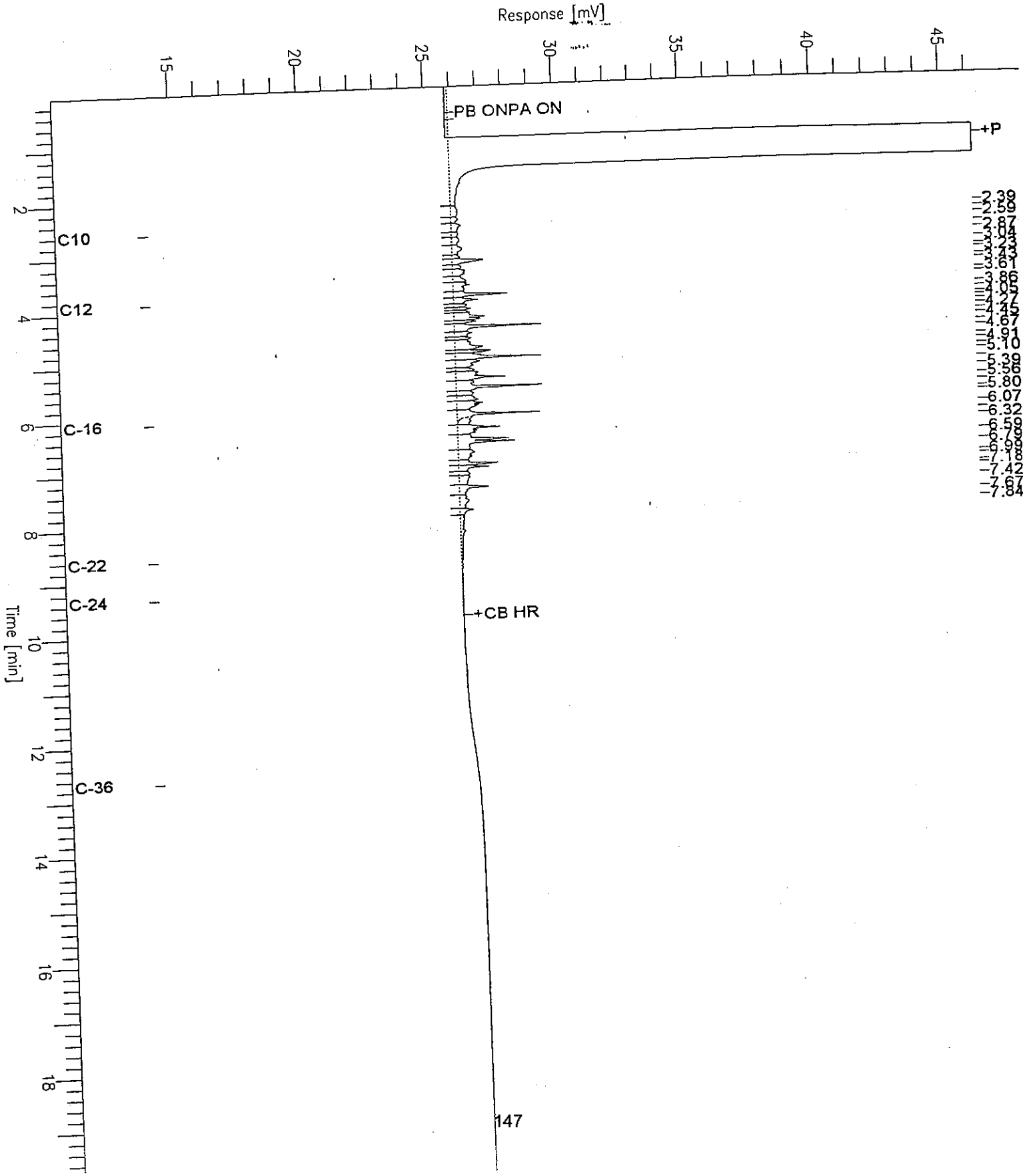
Report stored in ASCII file: G:\GC15\CHB\196B002P.TX0

Chromatogram

nple Name : ical,04ws1223,dsl
leName : G:\GC15\CHB\196B002.RAW
thod : BTEH197S.MTH
art Time : 0.01 min
ale Factor: 0.0

End Time : 19.99 min
Plot Offset: 14 mV

Sample #: 10mg/L
Date : 7/15/04 12:08 PM
Time of Injection: 7/14/04 03:05 PM
Low Point : 14.08 mV
High Point : 46.25 mV
Plot Scale: 32.2 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:09 PM
Sample Name : ical,04ws1222,dsl
Data File : G:\GC15\CHB\196B003.RAW Date: 7/14/04 03:33 PM
Sequence File: G:\GC15\196.SEQ Cycle: 3 Channel : B
Instrument : GC15 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.591	*VV	27811	0.03	1.0000	0.0278	1.0000	0.0278
JETA:10-16	4.340		1489389	1.49e-06	1.0000	1.4894e-06	1.0000	1.4894e-06
JP8:10-16	4.340		1489389	1.49e-06	1.0000	1.4894e-06	1.0000	1.4894e-06
JP5:10-16	4.340		1489389	70.40	1.0000	70.3975	1.0000	70.3975
KER:10-16	4.340		1489389	1.49e-05	1.0000	0.0000	1.0000	0.0000
DSL:10-20	5.226		2093303	120.62	1.0000	120.6156	1.0000	120.6156
DSL:10-22	5.612		2149890	125.31	1.0000	125.3110	1.0000	125.3110
GAIAFP:10-24	5.967		2164657	2.16e-05	1.0000	0.0000	1.0000	0.0000
DSL:10-24	5.967		2164657	121.77	1.0000	121.7720	1.0000	121.7720
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.254		1815333	1.82e-06	1.0000	1.8153e-06	1.0000	1.8153e-06
DSL:12-22	6.254		1815333	126.14	1.0000	126.1395	1.0000	126.1395
DSL:10-28	6.600		2165146	121.69	1.0000	121.6874	1.0000	121.6874
DSL:12-24	6.610		1830101	126.53	1.0000	126.5316	1.0000	126.5316
DSL:12-32	7.787		1830589	126.42	1.0000	126.4200	1.0000	126.4200
CRUDE:10-40	8.300		2165146	76.16	1.0000	76.1570	1.0000	76.1570
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		1830589	1.83e-06	1.0000	1.8306e-06	1.0000	1.8306e-06
HYFL:12-40	8.944		1830589	1.83e-05	1.0000	0.0000	1.0000	0.0000
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		15256	4.37	1.0000	4.3740	1.0000	4.3740
MO:20-36	10.283		71843	15.95	1.0000	15.9513	1.0000	15.9513
MO:22-36	10.667		15256	4.18	1.0000	4.1777	1.0000	4.1777
TPHHF:24-36	11.023		489	4.89e-10	1.0000	4.8858e-10	1.0000	4.8858e-10
MO:24-36	11.023		489	0.20	1.0000	0.1954	1.0000	0.1954
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			29944034					1039.7579

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: BTH Reviewed By: 7/15/04 [illegible]

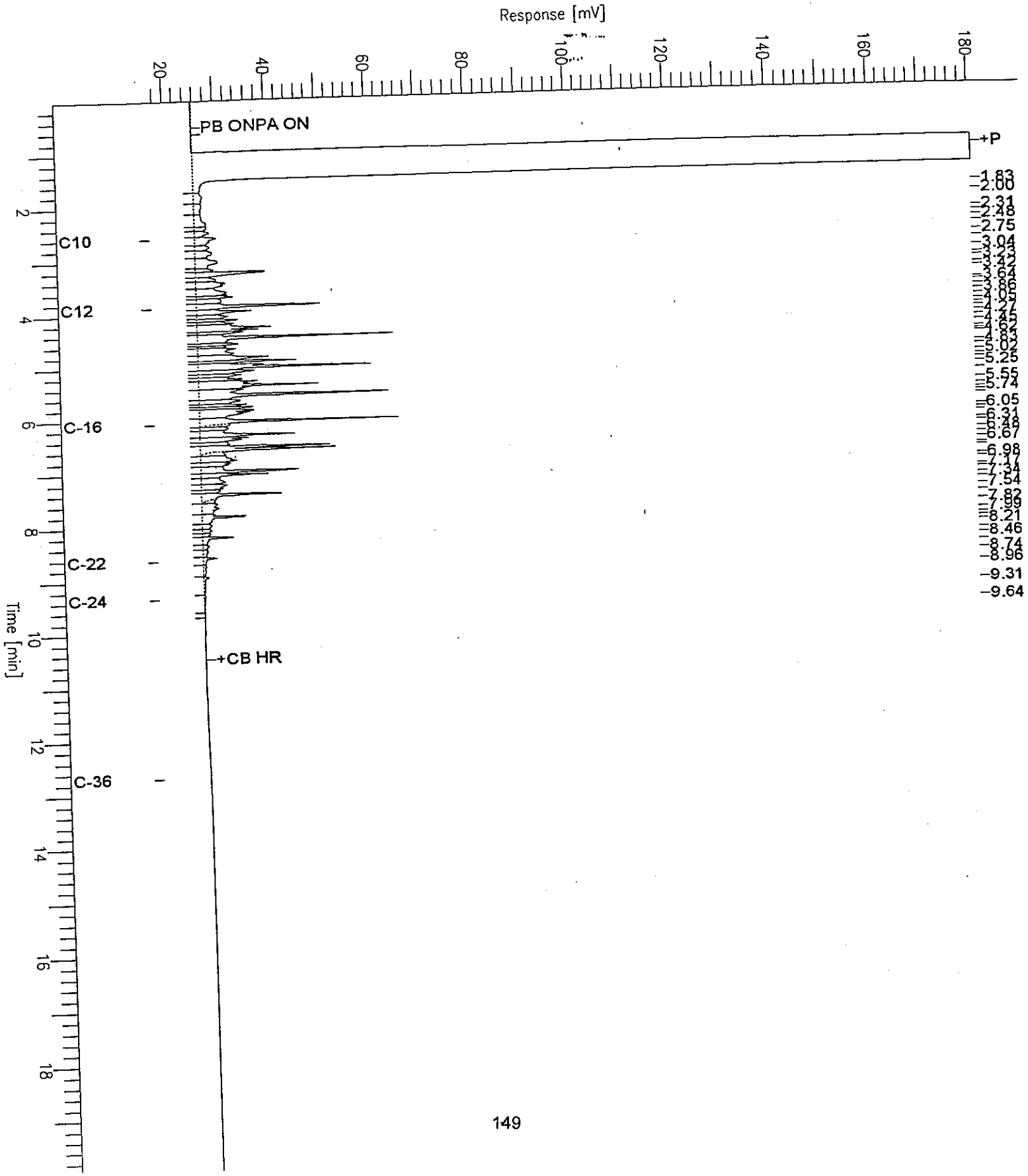
Report stored in ASCII file: G:\GC15\CHB\196B003P.TXO

Chromatogram

ımple Name : ical,04ws1222,dsl
.leName : G:\GC15\CHB\196B003.RAW
ethod : BTEH197S.MTH
:art Time : 0.01 min
:ale Factor: 0.0

End Time : 19.99 min
Plot Offset: 17 mV

Sample #: 100mg/L
Date : 7/15/04 12:09 PM
Time of Injection: 7/14/04 03:33 PM
Low Point : 16.91 mV
High Point : 180.49 mV
Plot Scale: 163.6 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:10 PM
Sample Name : ical,04ws1221,dsl
Data File : G:\GC15\CHB\196B004.RAW Date: 7/14/04 04:02 PM
Sequence File: G:\GC15\196.SEQ Cycle: 4 Channel : B
Instrument : GC15 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.587	*VV	68225	0.07	1.0000	0.0682	1.0000	0.0682
JETA:10-16	4.340		3600524	3.60e-06	1.0000	3.6005e-06	1.0000	3.6005e-06
JP8:10-16	4.340		3600524	3.60e-06	1.0000	3.6005e-06	1.0000	3.6005e-06
JP5:10-16	4.340		3600524	170.18	1.0000	170.1824	1.0000	170.1824
KER:10-16	4.340		3600524	3.60e-05	1.0000	0.0000	1.0000	0.0000
DSL:10-20	5.226		5057105	291.39	1.0000	291.3892	1.0000	291.3892
DSL:10-22	5.612		5205910	303.44	1.0000	303.4378	1.0000	303.4378
GAIAFP:10-24	5.967		5245960	5.25e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-24	5.967		5245960	295.11	1.0000	295.1097	1.0000	295.1097
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.254		4405154	4.41e-06	1.0000	4.4052e-06	1.0000	4.4052e-06
DSL:12-22	6.254		4405154	306.09	1.0000	306.0948	1.0000	306.0948
DSL:10-28	6.600		5251735	295.16	1.0000	295.1626	1.0000	295.1626
DSL:12-24	6.610		4445205	307.34	1.0000	307.3376	1.0000	307.3376
DSL:12-32	7.787		4450980	307.38	1.0000	307.3834	1.0000	307.3834
CRUDE:10-40	8.300		5251735	184.72	1.0000	184.7249	1.0000	184.7249
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		4450980	4.45e-06	1.0000	4.4510e-06	1.0000	4.4510e-06
HYFL:12-40	8.944		4450980	4.45e-05	1.0000	0.0000	1.0000	0.0000
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		45826	13.14	1.0000	13.1386	1.0000	13.1386
MO:20-36	10.283		194631	43.21	1.0000	43.2140	1.0000	43.2140
MO:22-36	10.667		45826	12.55	1.0000	12.5489	1.0000	12.5489
TPHHF:24-36	11.023		5775	5.77e-09	1.0000	5.7749e-09	1.0000	5.7749e-09
MO:24-36	11.023		5775	2.31	1.0000	2.3097	1.0000	2.3097
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			72635012					2532.1018

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: BTM Reviewed By: 7/15/04 CW 7/16/04

Report stored in ASCII file: G:\GC15\CHB\196B004P.TX0

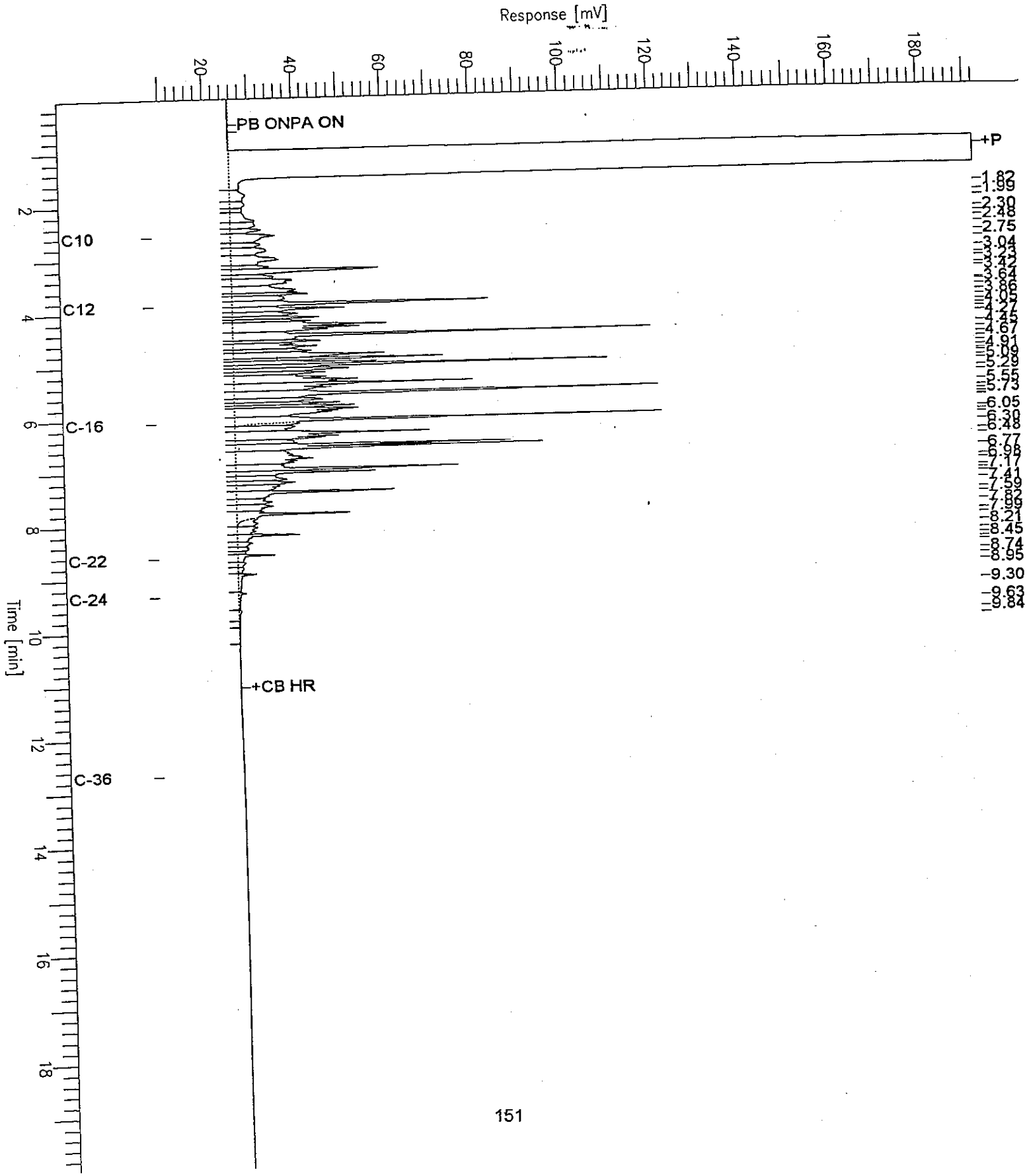
Chromatogram

ample Name : ical,04ws1221,dsl
ileName : G:\GC15\CHB\196B004.RAW
ethod : BTEH197S.MTH
tart Time : 0.01 min
cale Factor: 0.0

End Time : 19.99 min
Plot Offset: 8 mV

Sample #: 250mg/L
Date : 7/15/04 12:10 PM
Time of Injection: 7/14/04 04:02 PM
Low Point : 8.19 mV
Plot Scale: 183.8 mV

High Point : 192.02 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:11 PM
Sample Name : ical,04ws1220,dsl
Data File : G:\GC15\CHB\196B005.RAW Date: 7/14/04 04:31 PM
Sequence File: G:\GC15\196.SEQ Cycle: 5 Channel : B
Instrument : GC15 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time (min)	BL	Area (µV·s)	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.589	*VV	136111	0.14	1.0000	0.1361	1.0000	0.1361
JETA:10-16	4.340		7216461	7.22e-06	1.0000	7.2165e-06	1.0000	7.2165e-06
JP8:10-16	4.340		7216461	7.22e-06	1.0000	7.2165e-06	1.0000	7.2165e-06
JP5:10-16	4.340		7216461	341.09	1.0000	341.0933	1.0000	341.0933
KER:10-16	4.340		7216461	7.22e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.226		10115590	582.86	1.0000	582.8579	1.0000	582.8579
DSL:10-22	5.612		10400047	606.19	1.0000	606.1895	1.0000	606.1895
GAIAFP:10-24	5.967		10491369	1.05e-04	1.0000	0.0001	1.0000	0.0001
DSL:10-24	5.967		10491369	590.19	1.0000	590.1884	1.0000	590.1884
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.254		8792824	8.79e-06	1.0000	8.7928e-06	1.0000	8.7928e-06
DSL:12-22	6.254		8792824	610.97	1.0000	610.9746	1.0000	610.9746
DSL:10-28	6.600		10513336	590.88	1.0000	590.8796	1.0000	590.8796
DSL:12-24	6.610		8884145	614.24	1.0000	614.2420	1.0000	614.2420
DSL:12-32	7.787		8906112	615.05	1.0000	615.0536	1.0000	615.0536
CRUDE:10-40	8.300		10513336	369.80	1.0000	369.7968	1.0000	369.7968
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		8906112	8.91e-06	1.0000	8.9061e-06	1.0000	8.9061e-06
HYFL:12-40	8.944		8906112	8.91e-05	1.0000	0.0001	1.0000	0.0001
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		113289	32.48	1.0000	32.4807	1.0000	32.4807
MO:20-36	10.283		397746	88.31	1.0000	88.3119	1.0000	88.3119
MO:22-36	10.667		113289	31.02	1.0000	31.0229	1.0000	31.0229
TPHHF:24-36	11.023		21967	2.20e-08	1.0000	2.1967e-08	1.0000	2.1967e-08
MO:24-36	11.023		21967	8.79	1.0000	8.7857	1.0000	8.7857
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			145383390					5082.0132

CURTIS & TOMPKINS,LTD. BERKELEY

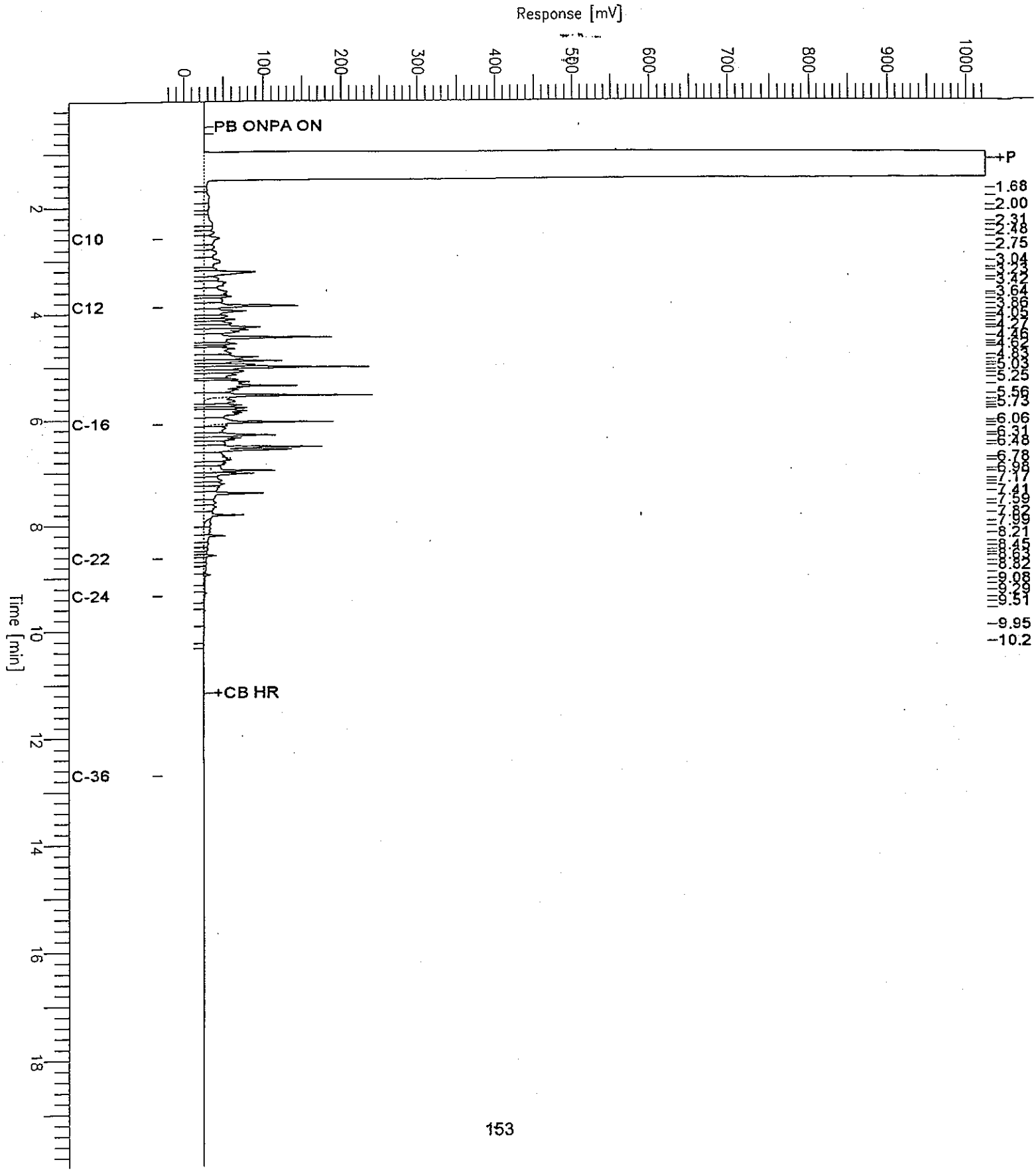
Analyzed By: BTM Reviewed By: 7/15/04 CW 7/16/04

Report stored in ASCII file: G:\GC15\CHB\196B005P.TXO

Chromatogram

Sample Name : ical,04ws1220,dsl
FileName : G:\GC15\CHB\196B005.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 500mg/L Page 1 of 1
Date : 7/15/04 12:11 PM
Time of Injection: 7/14/04 04:31 PM
Low Point : -26.95 mV High Point : 1024.00 mV
Plot Scale: 1051.0 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:12 PM
Sample Name : ical,04ws1219,dsl
Data File : G:\GC15\CHB\196B006.RAW Date: 7/14/04 05:00 PM
Sequence File: G:\GC15\196.SEQ Cycle: 6 Channel : B
Instrument : GC15 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.588	*VV	286383	0.29	1.0000	0.2864	1.0000	0.2864
JETA:10-16	4.340		15608239	1.56e-05	1.0000	0.0000	1.0000	0.0000
JP8:10-16	4.340		15608239	1.56e-05	1.0000	0.0000	1.0000	0.0000
JP5:10-16	4.340		15608239	737.74	1.0000	737.7392	1.0000	737.7392
KER:10-16	4.340		15608239	1.56e-04	1.0000	0.0002	1.0000	0.0002
DSL:10-20	5.226		21906073	1262.22	1.0000	1262.2227	1.0000	1262.2227
DSL:10-22	5.612		22541684	1313.89	1.0000	1313.8913	1.0000	1313.8913
GAIAFP:10-24	5.967		22719476	2.27e-04	1.0000	0.0002	1.0000	0.0002
DSL:10-24	5.967		22719476	1278.08	1.0000	1278.0764	1.0000	1278.0764
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.254		19117661	1.91e-05	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.254		19117661	1328.40	1.0000	1328.4020	1.0000	1328.4020
DSL:10-28	6.600		22769905	1279.73	1.0000	1279.7340	1.0000	1279.7340
DSL:12-24	6.610		19295452	1334.07	1.0000	1334.0706	1.0000	1334.0706
DSL:12-32	7.787		19345882	1336.02	1.0000	1336.0212	1.0000	1336.0212
CRUDE:10-40	8.300		22769905	800.91	1.0000	800.9103	1.0000	800.9103
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		19345882	1.93e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.944		19345882	1.93e-04	1.0000	0.0002	1.0000	0.0002
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		228221	65.43	1.0000	65.4325	1.0000	65.4325
MO:20-36	10.283		863832	191.80	1.0000	191.7972	1.0000	191.7972
MO:22-36	10.667		228221	62.50	1.0000	62.4957	1.0000	62.4957
TPHHF:24-36	11.023		50429	5.04e-08	1.0000	5.0429e-08	1.0000	5.0429e-08
MO:24-36	11.023		50429	20.17	1.0000	20.1690	1.0000	20.1690
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			315135411					11011.2491

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: BTM Reviewed By: 7/15/04 [illegible]

Report stored in ASCII file: G:\GC15\CHB\196B006P.TXO

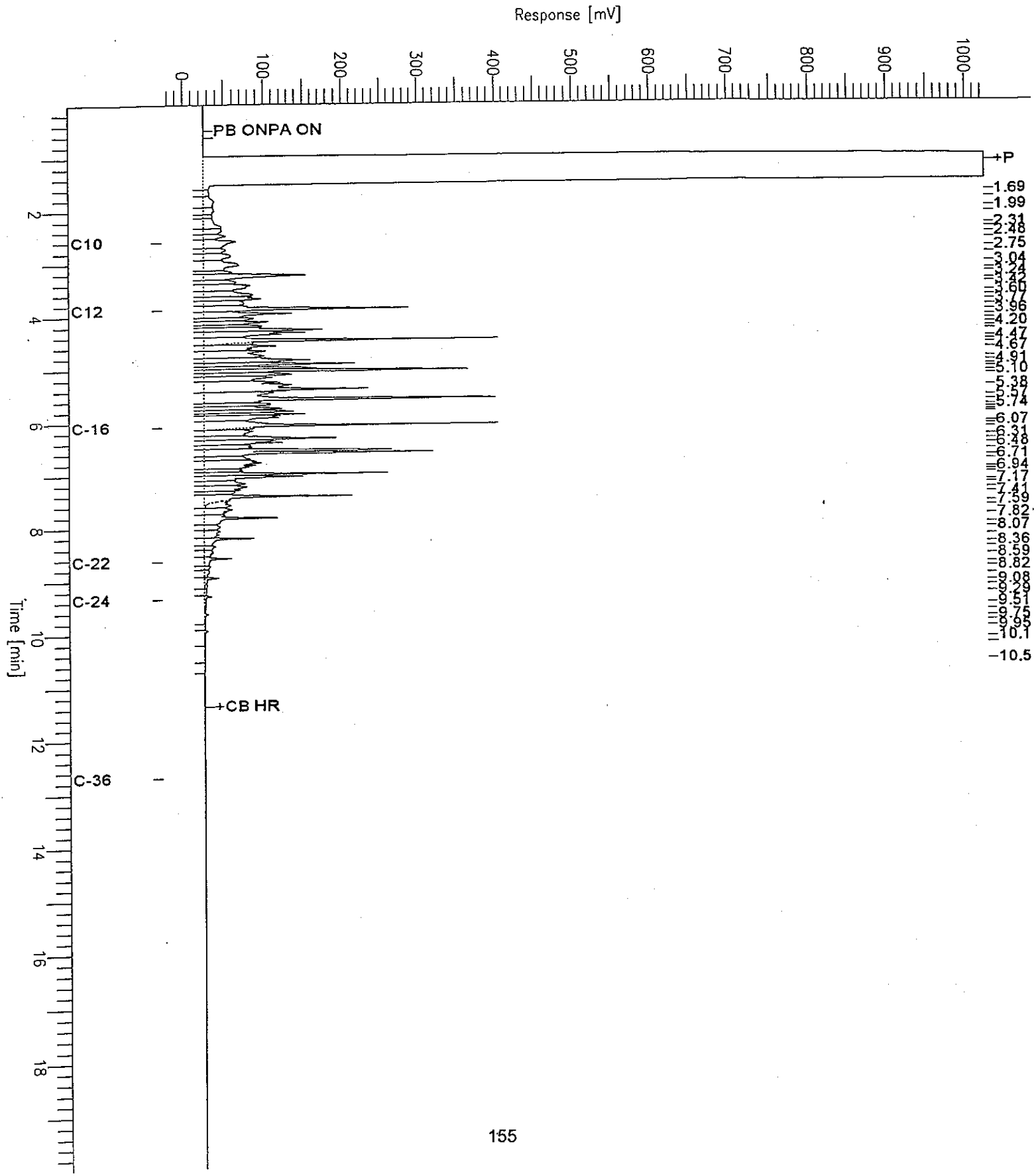
Chromatogram

Sample Name : ical,04ws1219,dsl
FileName : G:\GC15\CHB\196B006.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: -27 mV

Sample #: 1000mg/L
Date : 7/15/04 12:12 PM
Time of Injection: 7/14/04 05:00 PM
Low Point : -27.01 mV
Plot Scale: 1051.0 mV

High Point : 1024.00 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:13 PM
Sample Name : ical,04ws1218,dsl
Data File : G:\GC15\CHB\196B007.RAW Date: 7/14/04 05:29 PM
Sequence File: G:\GC15\196.SEQ Cycle: 7 Channel : B
Instrument : GC15 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.340		34979520	3.50e-05	1.0000	0.0000	1.0000	0.0000
JP8:10-16	4.340		34979520	3.50e-05	1.0000	0.0000	1.0000	0.0000
JP5:10-16	4.340		34979520	1653.34	1.0000	1653.3424	1.0000	1653.3424
KER:10-16	4.340		34979520	3.50e-04	1.0000	0.0003	1.0000	0.0003
DSL:10-20	5.226		51684097	2978.03	1.0000	2978.0253	1.0000	2978.0253
DSL:10-22	5.612		53087136	3094.30	1.0000	3094.2996	1.0000	3094.2996
GAIAFP:10-24	5.967		53556345	5.36e-04	1.0000	0.0005	1.0000	0.0005
DSL:10-24	5.967		53556345	3012.79	1.0000	3012.7940	1.0000	3012.7940
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.254		45913284	4.59e-05	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.254		45913284	3190.31	1.0000	3190.3116	1.0000	3190.3116
DSL:10-28	6.600		53680026	3016.97	1.0000	3016.9715	1.0000	3016.9715
DSL:12-24	6.610		46382493	3206.84	1.0000	3206.8449	1.0000	3206.8449
DSL:12-32	7.787		46510959	3212.03	1.0000	3212.0338	1.0000	3212.0338
CRUDE:10-40	8.300		53684812	1888.31	1.0000	1888.3134	1.0000	1888.3134
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		46510959	4.65e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.944		46510959	4.65e-04	1.0000	0.0005	1.0000	0.0005
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		597676	171.36	1.0000	171.3580	1.0000	171.3580
MO:20-36	10.283		2000715	444.22	1.0000	444.2200	1.0000	444.2200
MO:22-36	10.667		597676	163.67	1.0000	163.6670	1.0000	163.6670
TPHHF:24-36	11.023		128467	1.28e-07	1.0000	1.2847e-07	1.0000	1.2847e-07
MO:24-36	11.023		128467	51.38	1.0000	51.3798	1.0000	51.3798
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			740361779					26083.5627

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: BTH Reviewed By: 7/15/04 CW 7/16/04

Report stored in ASCII file: G:\GC15\CHB\196B007P.TX0

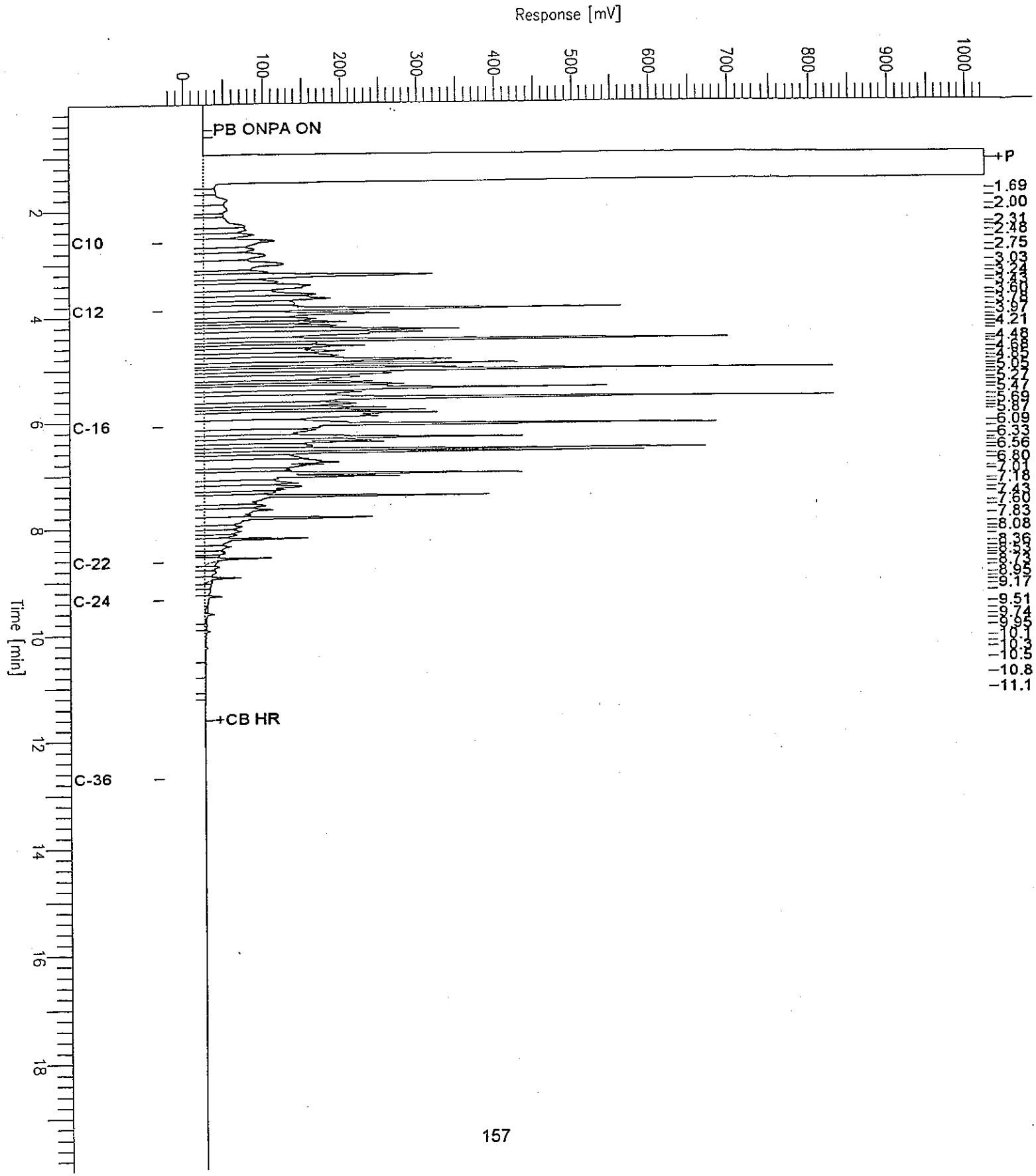
Chromatogram

Sample Name : ical,04ws1218,dsl
FileName : G:\GC15\CHB\196B007.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: -27 mV

Sample #: 2500mg/L
Date : 7/15/04 12:13 PM
Time of Injection: 7/14/04 05:29 PM
Low Point : -27.05 mV
Plot Scale: 1051.0 mV

High Point : 1024.00 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:14 PM
Sample Name : ical,04ws1217,dsl
Data File : G:\GC15\CHB\196B008.RAW Date: 7/14/04 05:58 PM
Sequence File: G:\GC15\196.SEQ Cycle: 8 Channel : B
Instrument : GC15 Rack/Vial: 0/8 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.340		70662034	7.07e-05	1.0000	0.0001	1.0000	0.0001
JP8:10-16	4.340		70662034	7.07e-05	1.0000	0.0001	1.0000	0.0001
JP5:10-16	4.340		70662034	3339.91	1.0000	3339.9126	1.0000	3339.9126
KER:10-16	4.340		70662034	7.07e-04	1.0000	0.0007	1.0000	0.0007
DSL:10-20	5.226		104371032	6013.83	1.0000	6013.8338	1.0000	6013.8338
DSL:10-22	5.612		107354873	6257.41	1.0000	6257.4131	1.0000	6257.4131
GAIAFP:10-24	5.967		108230758	0.00	1.0000	0.0011	1.0000	0.0011
DSL:10-24	5.967		108230758	6088.48	1.0000	6088.4846	1.0000	6088.4846
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.254		92537285	9.25e-05	1.0000	0.0001	1.0000	0.0001
DSL:12-22	6.254		92537285	6430.01	1.0000	6430.0079	1.0000	6430.0079
DSL:10-28	6.600		108489445	6097.42	1.0000	6097.4181	1.0000	6097.4181
DSL:12-24	6.610		93413171	6458.50	1.0000	6458.5047	1.0000	6458.5047
DSL:12-32	7.787		93700146	6470.91	1.0000	6470.9058	1.0000	6470.9058
CRUDE:10-40	8.300		108517734	3817.01	1.0000	3817.0105	1.0000	3817.0105
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		93700146	9.37e-05	1.0000	0.0001	1.0000	0.0001
HYFL:12-40	8.944		93700146	9.37e-04	1.0000	0.0009	1.0000	0.0009
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		1162861	333.40	1.0000	333.4008	1.0000	333.4008
MO:20-36	10.283		4146702	920.69	1.0000	920.6949	1.0000	920.6949
MO:22-36	10.667		1162861	318.44	1.0000	318.4369	1.0000	318.4369
TPHHF:24-36	11.023		286975	2.87e-07	1.0000	2.8698e-07	1.0000	2.8698e-07
MO:24-36	11.023		286975	114.77	1.0000	114.7747	1.0000	114.7747
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			1494477290					52660.8014

CURTIS & TOMPKINS,LTD. BERKELEY

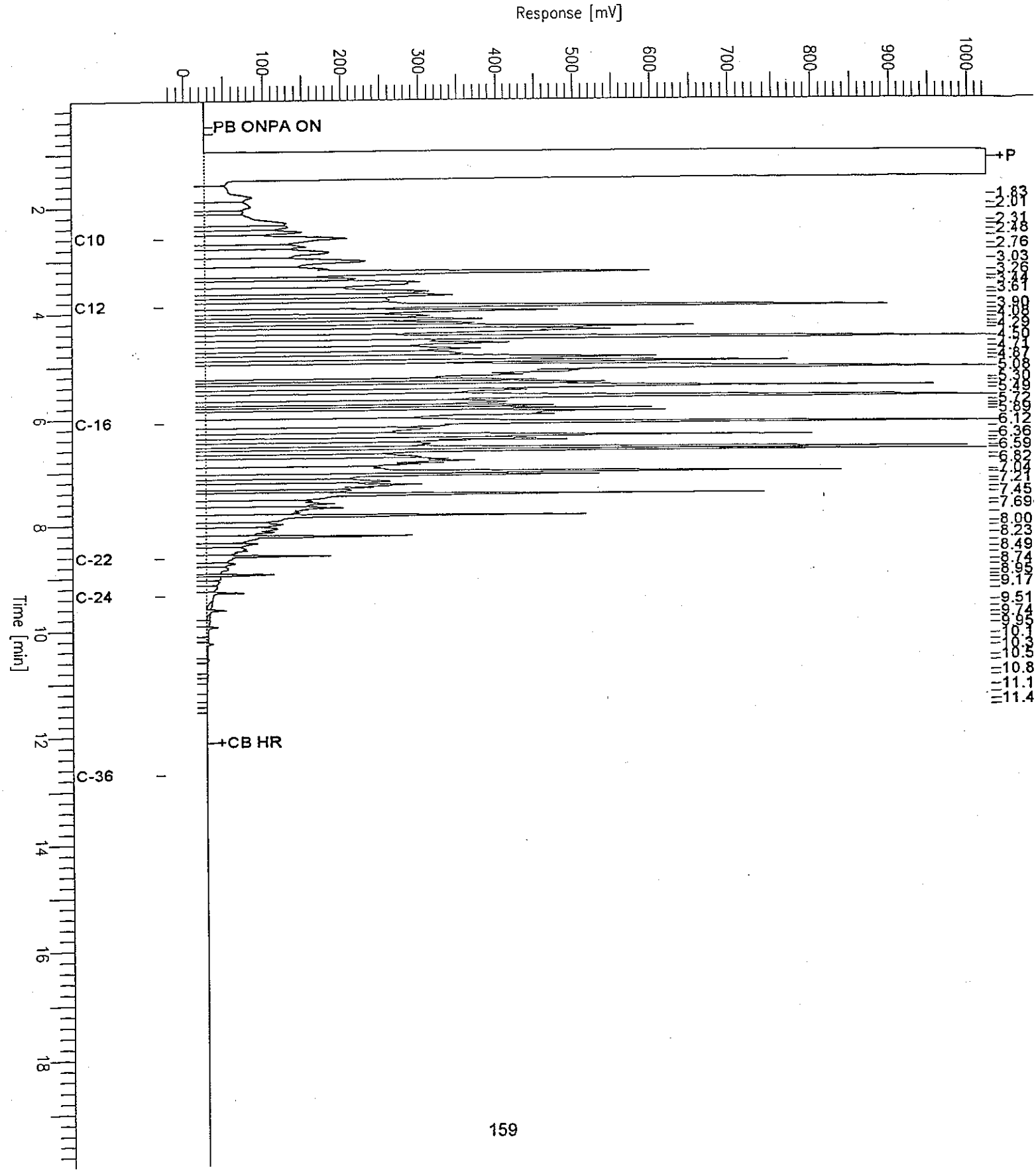
Analyzed By: BTH Reviewed By: 7/15/04 cw7/16/04

Report stored in ASCII file: G:\GC15\CHB\196B008P.TX0

Chromatogram

Sample Name : ical,04ws1217,dsl
FileName : G:\GC15\CHB\196B008.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 5000mg/L
Date : 7/15/04 12:14 PM
Time of Injection: 7/14/04 05:58 PM
Low Point : -27.06 mV High Point : 1024.00 mV
Plot Scale: 1051.1 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC15B
Seqnum : 164283116033

Run Name : dsl
Filename : 196b033

Injected : 15-JUL-2004 05:57
Caltype :

Standards: 04WS0983

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Flags
Diesel C10-C22	164283116001	14-JUL-2004	500.0000	490.0450	mg/L	-2	
Diesel C10-C24	164283116001	14-JUL-2004	500.0000	490.3653	mg/L	-2	
Diesel C10-C28	164283116001	14-JUL-2004	500.0000	490.9616	mg/L	-2	
Diesel C10-C20	164283116001	14-JUL-2004	500.0000	487.6488	mg/L	-2	
Diesel C12-C22	164283116001	14-JUL-2004	500.0000	480.5794	mg/L	-4	
Diesel C12-C24	164283116001	14-JUL-2004	500.0000	481.0322	mg/L	-4	
Diesel C12-C32	164283116001	14-JUL-2004	500.0000	481.7634	mg/L	-4	
Hexacosane	164283116004	14-JUL-2004	50.00000	49.47990	mg/L	-1	

BTH 7/15/04

CW 7/16/04

Software Version: 4.1<2F12>
Date: 7/15/04 01:22 PM
Sample Name : icv,04w0983,dsl
Data File : G:\GC15\CHB\196B033.RAW Date: 7/15/04 05:57 AM
Sequence File: G:\GC15\196.SEQ Cycle: 33 Channel : B
Instrument : GC15 Rack/Vial: 0/33 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.340		7160631	7.16e-06	1.0000	7.1606e-06	1.0000	7.1606e-06
JP8:10-16	4.340		7160631	7.16e-06	1.0000	7.1606e-06	1.0000	7.1606e-06
JP5:10-16	4.340		7160631	354.26	1.0000	354.2612	1.0000	354.2612
KER:10-16	4.340		7160631	7.16e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.226		9982370	487.65	1.0000	487.6490	1.0000	487.6490
DSL:10-22	5.612		10278111	490.05	1.0000	490.0460	1.0000	490.0460
DSL:10-24	5.967		10357048	490.37	1.0000	490.3654	1.0000	490.3654
GAIAFP:10-24	5.967		10357048	1.04e-04	1.0000	0.0001	1.0000	0.0001
C-16	6.088		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.254		8571231	480.58	1.0000	480.5793	1.0000	480.5793
TROIL:12-22	6.254		8571231	8.57e-06	1.0000	8.5712e-06	1.0000	8.5712e-06
DSL:10-28	6.600		11553470	546.19	1.0000	546.1854	1.0000	546.1854
DSL:12-24	6.610		8650168	481.03	1.0000	481.0321	1.0000	481.0321
DSL:12-32	7.787		9847371	546.60	1.0000	546.6044	1.0000	546.6044
CRUDE:10-40	8.300		11554251	406.41	1.0000	406.4101	1.0000	406.4101
C-22	8.631		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.944		9847371	9.85e-06	1.0000	9.8474e-06	1.0000	9.8474e-06
HYFL:12-40	8.944		9847371	9.85e-05	1.0000	0.0001	1.0000	0.0001
C-24	9.342		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.163		1276140	84.67	1.0000	84.6722	1.0000	84.6722
MO:20-36	10.283		1571881	88.51	1.0000	88.5128	1.0000	88.5128
MO:22-36	10.667		1276140	81.54	1.0000	81.5353	1.0000	81.5353
TPHHF:24-36	11.023		1197203	1.20e-06	1.0000	1.1972e-06	1.0000	1.1972e-06
MO:24-36	11.023		1197203	98.22	1.0000	98.2163	1.0000	98.2163
C-36	12.704		0	0.00	1.0000	0.0000	1.0000	0.0000
			154578132					4636.0697

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\196B033P.TXO

Raw Area Avg. Cal Factor
10357048 ÷ 21121.08091
= 490.37

BTM
7/15/04

Cwt 16 bm

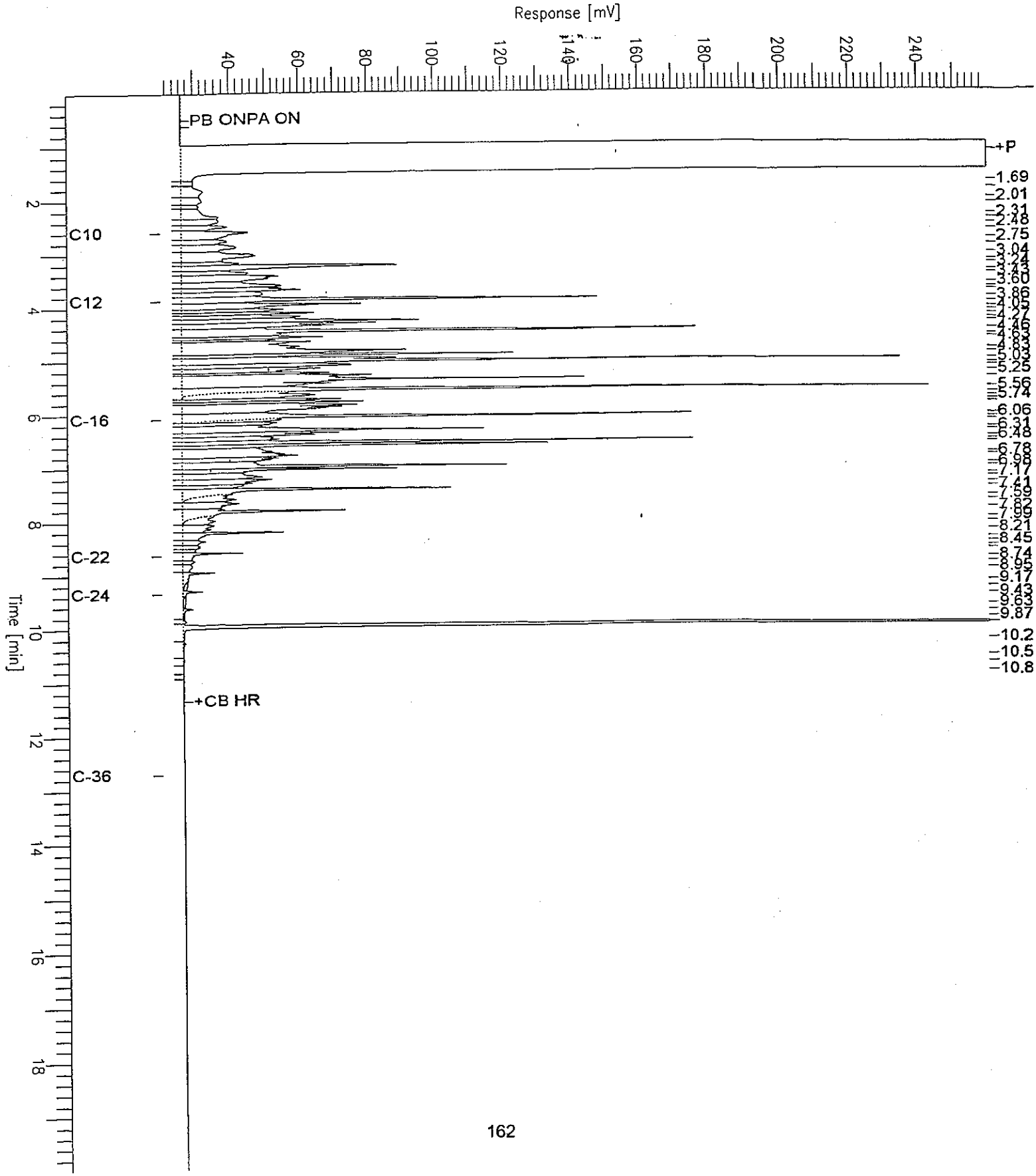
Chromatogram

Sample Name : icv,04w0983,dsl
FileName : G:\GC15\CHB\196B033.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 21 mV

Sample #: 500mg/L
Date : 7/15/04 01:22 PM
Time of Injection: 7/15/04 05:57 AM
Low Point : 20.63 mV
Plot Scale: 239.2 mV

High Point : 259.80 mV



Software Version: 4.1<2F12>
Date: 7/15/04 01:53 PM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC15\CHB\196B033.RAW Date: 7/15/04 05:57 AM
Sequence File: G:\GC15\196.SEQ Cycle: 33 Channel : B
Instrument : GC15 Rack/Vial: 0/33 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1168147	49.48	49.4799			9.975	98.9598	1.0000
		49.48						

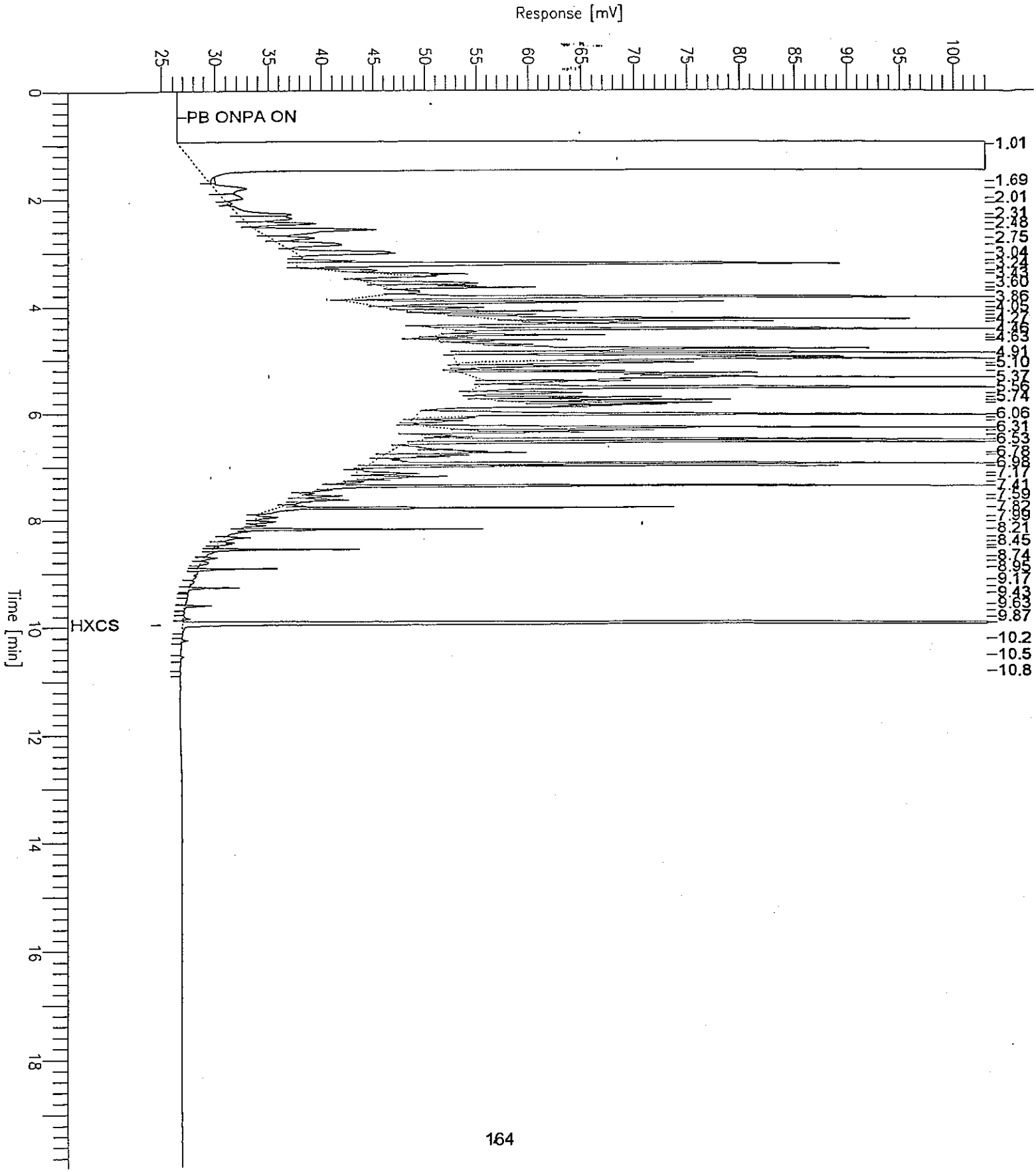
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\196B033.TX0

GC15 Channel B Surrogate

Sample Name : icv,04ws0983,dsl
FileName : G:\GC15\CHB\196b033.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 7/15/04 01:53 PM
Time of Injection: 7/15/04 05:57 AM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By:
Calnum: 164283116004 Name: hxcs Type: (normal) Date: 14-JUL-2004 22:18 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b017	164283116017	hex	14-JUL-2004 22:18	04WS0533
2	196b018	164283116018	hex	14-JUL-2004 22:47	04WS0534
3	196b019	164283116019	hex	14-JUL-2004 23:16	04WS0535
4	196b020	164283116020	hex	14-JUL-2004 23:44	04WS0536
5	196b021	164283116021	hex	15-JUL-2004 00:13	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	22104	24448	23772	23458	24259	AVRG R		4.236E-5		mg/L	23609	4	0.995	20	

165

BTH 7/15/04

AW 7/16/04

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/14/04 10:39 PM
Sample Name : ical,04ws0533,hex
Data File : G:\GC15\CHB\196B017.RAW Date: 7/14/04 10:18 PM
Sequence File: G:\GC15\196.SEQ Cycle: 17 Channel : B
Instrument : GC15 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	110521	19.68	19.6844			9.949	39.3688	1.0000
		19.68						

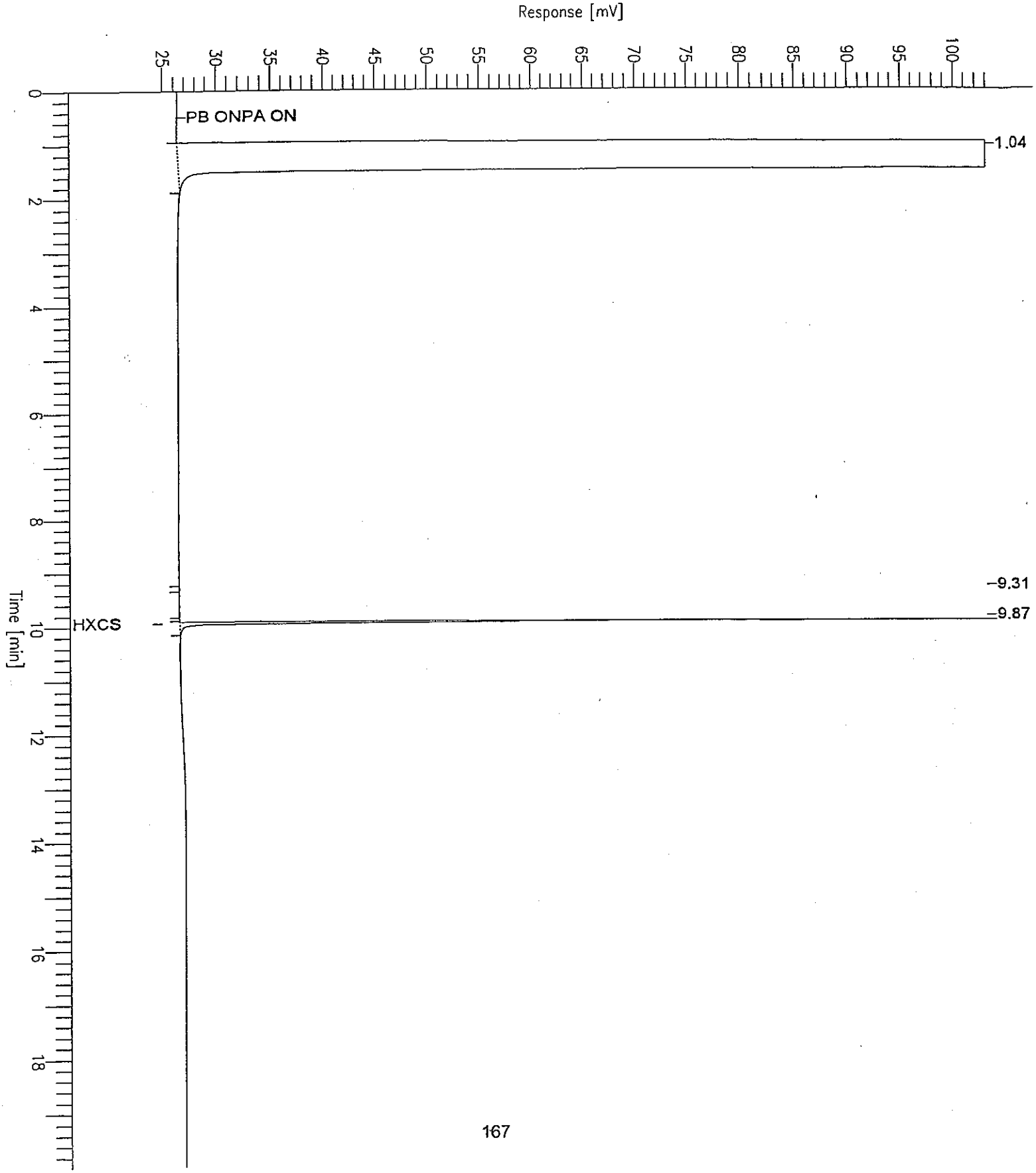
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\196B017.TXO

GC15 Channel B Surrogate

Sample Name : ical,04ws0533,hex
FileName : G:\GC15\CHB\196B017.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 5mg/L Page 1 of 1
Date : 7/14/04 10:39 PM
Time of Injection: 7/14/04 10:18 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 7/14/04 11:07 PM
Sample Name : ical,04ws0534,hex
Data File : G:\GC15\CHB\196B018.RAW Date: 7/14/04 10:47 PM
Sequence File: G:\GC15\196.SEQ Cycle: 18 Channel : B
Instrument : GC15 Rack/Vial: 0/18 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	244482	43.54	43.5435			9.955	87.0870	1.0000
		43.54						

Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\196B018.TXO

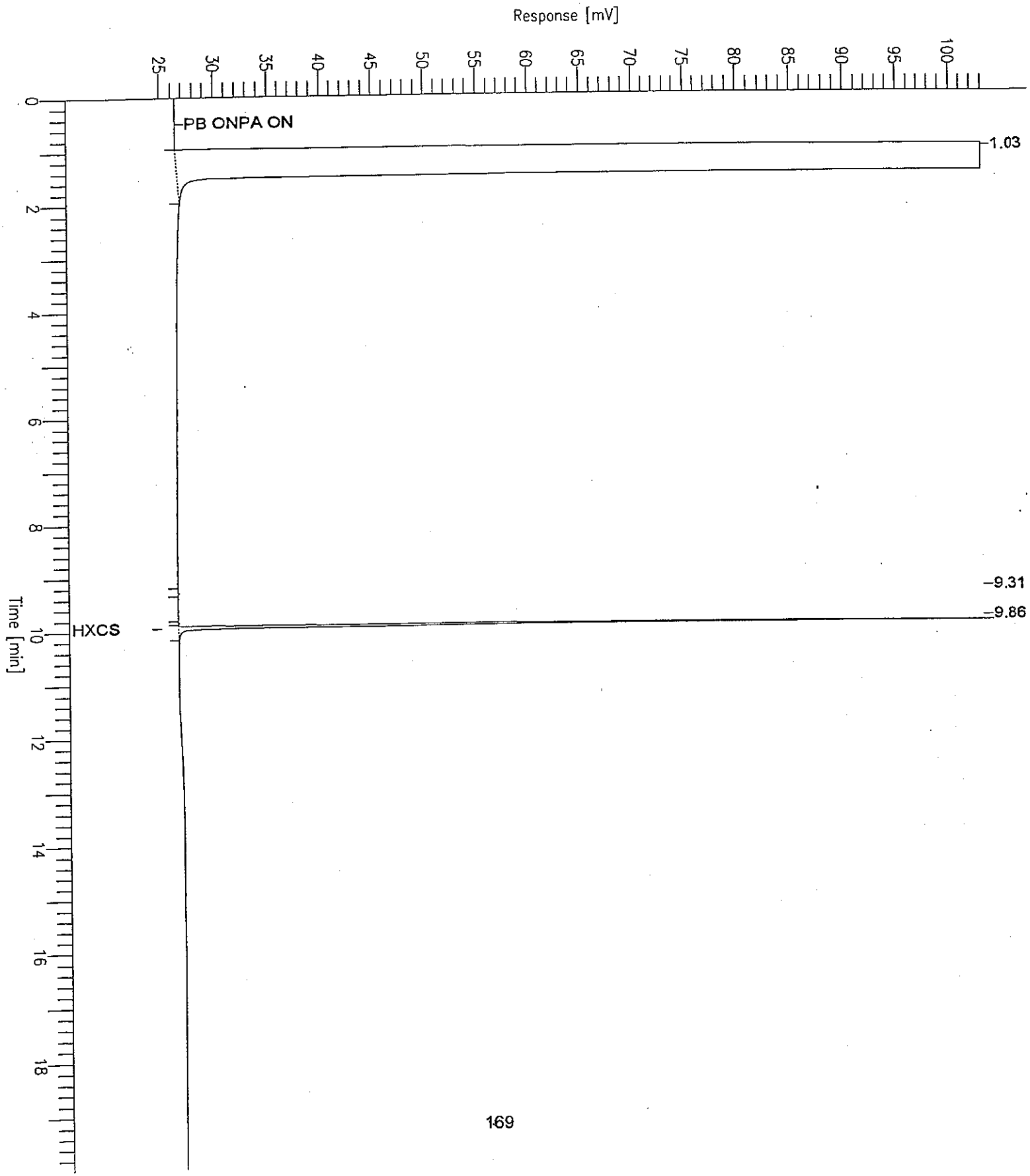
GC15 Channel B Surrogate

Sample Name : ical,04ws0534,hex
FileName : G:\GC15\CHB\196B018.raw
Method : 20MINB
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 10mg/L
Date : 7/14/04 11:07 PM
Time of Injection: 7/14/04 10:47 PM
Low Point : 25.00 mV
Plot Scale: 78.0 mV

High Point : 103.00 mV



Software Version: 4.1<2F12>
Date: 7/14/04 11:36 PM
Sample Name : ical,04ws0535,hex
Data File : G:\GC15\CHB\196B019.RAW Date: 7/14/04 11:16 PM
Sequence File: G:\GC15\196.SEQ Cycle: 19 Channel : B
Instrument : GC15 Rack/Vial: 0/19 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	594309	105.85	105.8496		9.965	211.6991	1.0000
		105.85					

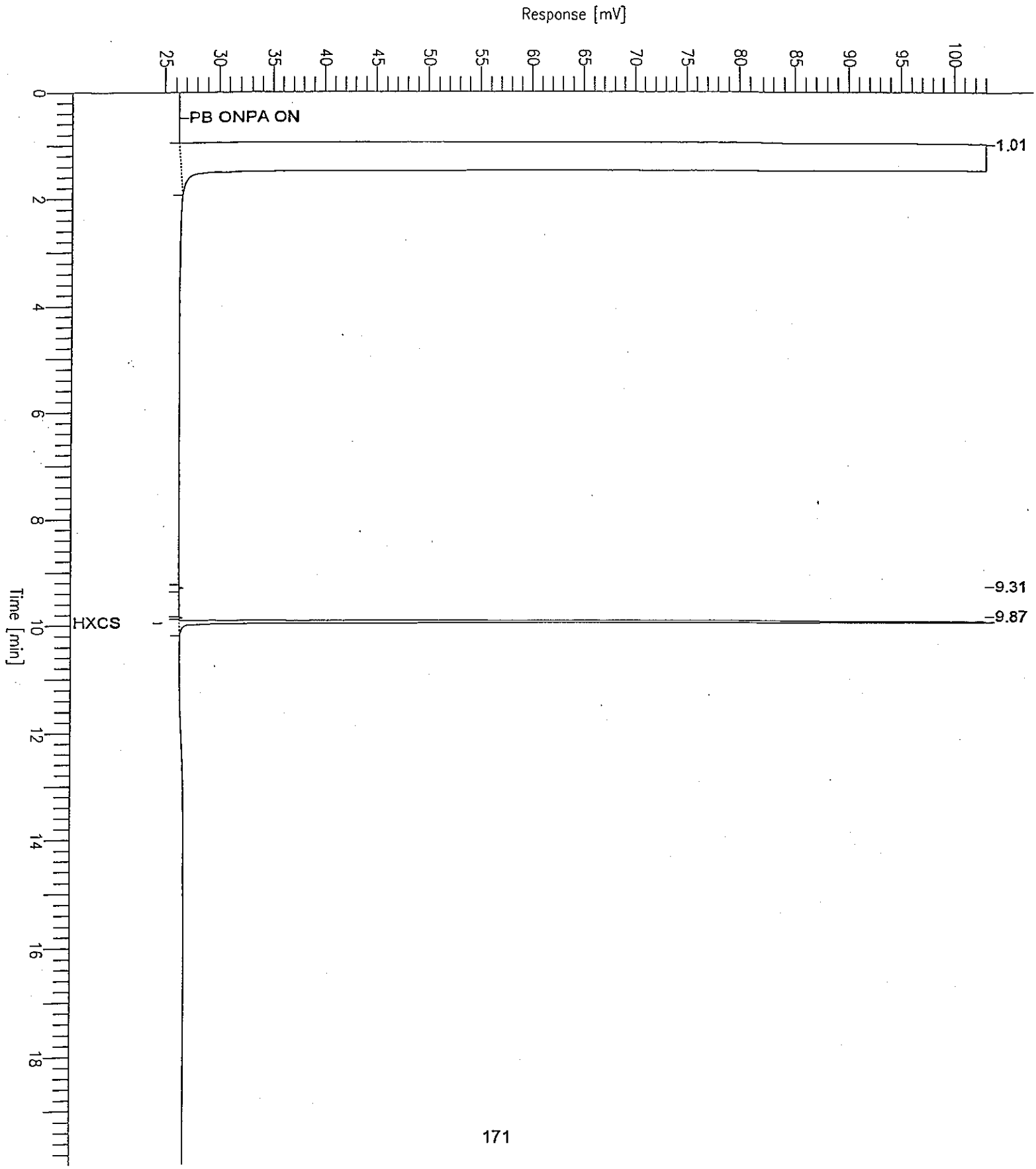
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\196B019.TX0

GC15 Channel B Surrogate

Sample Name : ical,04ws0535,hex
FileName : G:\GC15\CHB\196B019.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 25mg/L Page 1 of 1
Date : 7/14/04 11:36 PM
Time of Injection: 7/14/04 11:16 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:04 AM
Sample Name : ical,04ws0536,hex
Data File : G:\GC15\CHB\196B020.RAW Date: 7/14/04 11:44 PM
Sequence File: G:\GC15\196.SEQ Cycle: 20 Channel : B
Instrument : GC15 Rack/Vial: 0/20 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1172917	208.90	208.9027			9.980	417.8054	1.0000
		208.90						

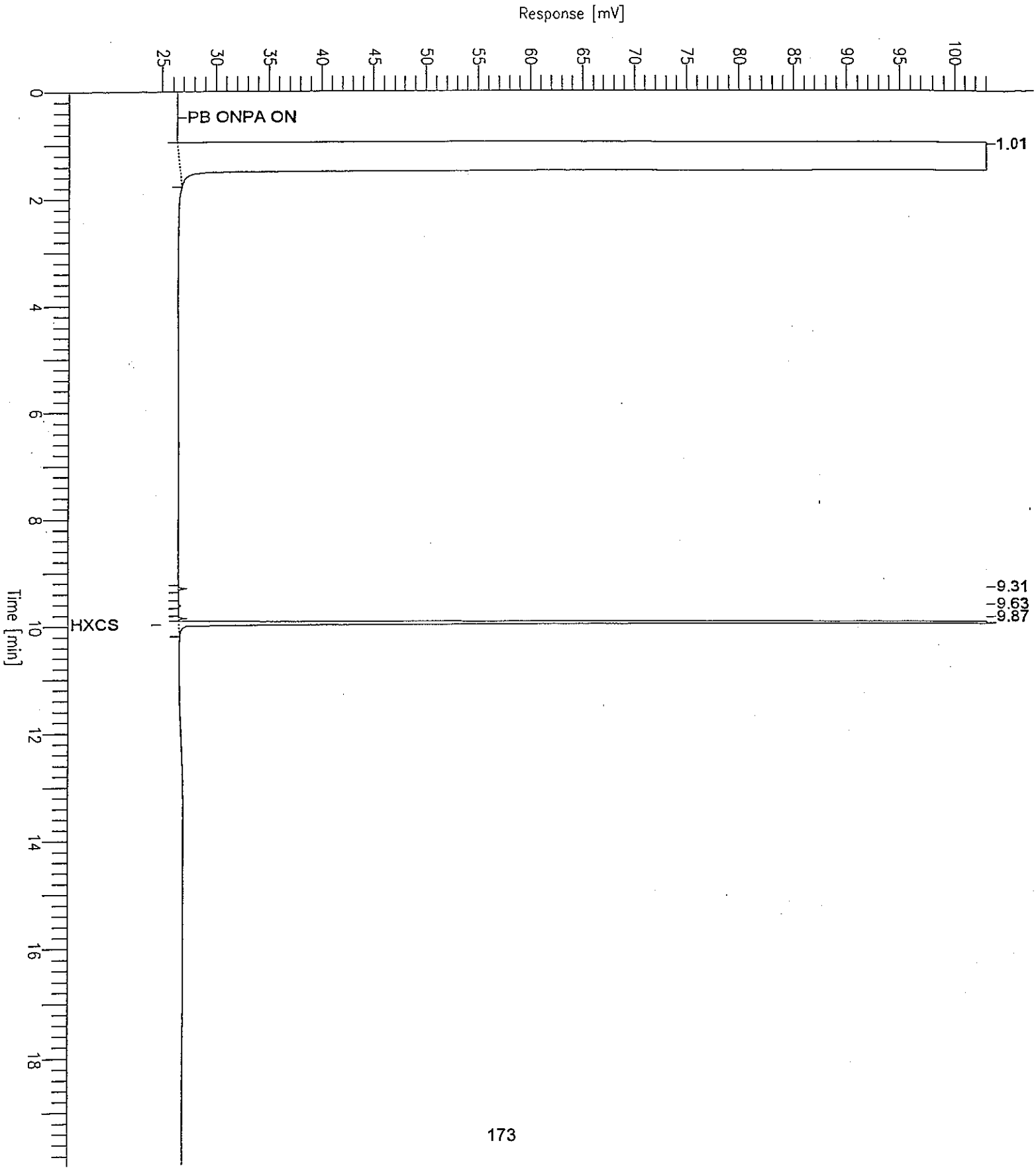
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\196B020.TXO

GC15 Channel B Surrogate

Sample Name : ical,04ws0536,hex
FileName : G:\GC15\CHB\196B020.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L
Date : 7/15/04 12:04 AM
Time of Injection: 7/14/04 11:44 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 7/15/04 12:33 AM
Sample Name : ical,04ws0537,hex
Data File : G:\GC15\CHB\196B021.RAW Date: 7/15/04 12:13 AM
Sequence File: G:\GC15\196.SEQ Cycle: 21 Channel : B
Instrument : GC15 Rack/Vial: 0/21 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1819461	324.06	324.0556		9.987	648.1112	1.0000
		324.06					

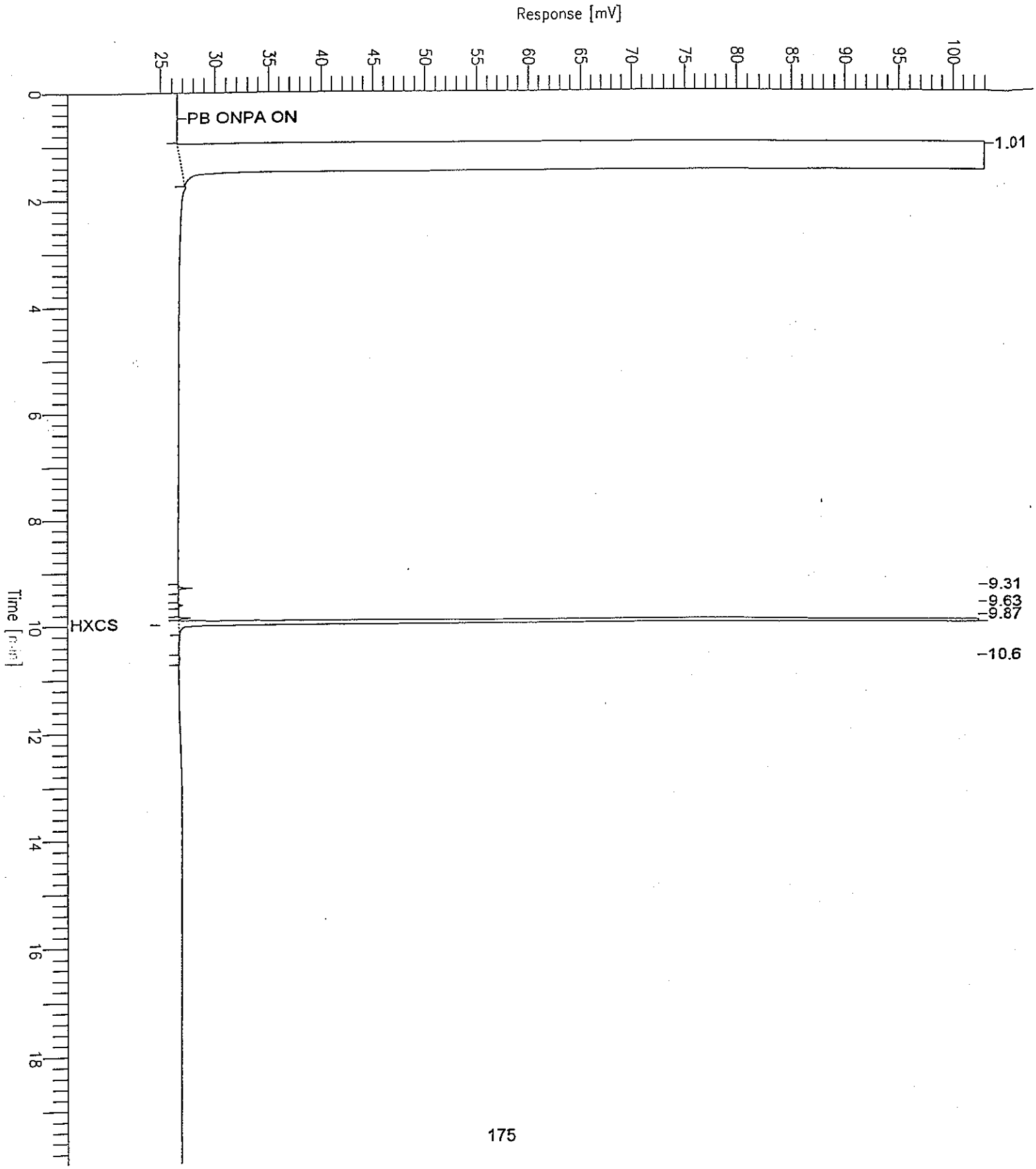
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\196B021.TX0

GC15 Channel B Surrogate

Sample Name : ical,04ws0537,hex
FileName : G:\GC15\CHB\196B021.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 75mg/L
Date : 7/15/04 12:33 AM
Time of Injection: 7/15/04 12:13 AM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Sample Name : c10-16 Time : 6/30/04 10:13 AM
Sample Number: Study :
Operator :

Instrument : GC17 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/7

Interface Serial # : NONE Data Acquisition Time: 6/29/04 03:45 PM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC17\CHA\181A007.RAW
Result File : G:\GC17\CHA\181A007P.RST
Inst Method : G:\GC17\20mina from G:\GC17\CHA\181A007P.RST
Proc Method : G:\GC17\ATEH168.MTH
Calib Method : G:\GC17\ATEH168.MTH
Sequence File : G:\GC17\181.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
1	1.743	4061.02	925.88	0.07	0.07	*BV	4.3861
10 2	1.836	800355.20	184528.30	14.07	14.07	*VB	4.3373
3	3.043	4423.52	1847.75	0.08	0.08	*BV	2.3940
4	3.140	1119712.15	553203.52	19.68	19.68	*VB	2.0241
5	4.081	350.33	280.71	0.01	0.01	*BB	1.2480
6	4.137	744.76	430.65	0.01	0.01	*BV	1.7294
7	4.192	6132.76	2972.28	0.11	0.11	*VV	2.0633
8	4.303	1487238.20	570656.88	26.14	26.14	*VV	2.6062
9	5.131	6141.13	1585.53	0.11	0.11	*VV	3.8732
10	5.200	10334.35	4686.19	0.18	0.18	*VV	2.2053
11	5.321	1908048.54	813835.53	33.54	33.54	*VE	2.3445
12	7.684	39016.94	663.74	0.69	0.69	*EV	58.7837
13	8.762	38667.27	614.81	0.68	0.68	*VV	62.8934
14	9.683	27261.99	506.05	0.48	0.48	*VV	53.8719
15	10.107	7784.74	424.64	0.14	0.14	*VV	18.3326
16	10.497	5476.35	448.34	0.10	0.10	*VV	12.2148
17	10.863	5213.00	509.65	0.09	0.09	*VV	10.2286
18	11.093	1630.38	241.66	0.03	0.03	*VV	6.7466

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
19	11.213	4095.72	733.10	0.07	0.07	*VV	5.5868
20	11.386	1764.16	285.69	0.03	0.03	*VV	6.1751
21	11.539	6417.51	1035.25	0.11	0.11	*VV	6.1990
22	11.864	11364.28	1258.00	0.20	0.20	*VV	9.0336
23	12.176	15889.96	1629.18	0.28	0.28	*VV	9.7534
24	12.375	4966.69	833.70	0.09	0.09	*VV	5.9574
25	12.495	15916.27	1818.72	0.28	0.28	*VV	8.7514
26	12.848	21567.05	1657.88	0.38	0.38	*VV	13.0088
27	13.245	27426.13	1494.71	0.48	0.48	*VV	18.3488
28	13.709	24972.78	1304.97	0.44	0.44	*VV	19.1366
29	14.262	25037.03	1086.89	0.44	0.44	*VV	23.0356
30	14.952	25800.65	767.28	0.45	0.45	*VV	33.6263
31	15.884	25749.76	448.96	0.45	0.45	*VV	57.3547
32	17.174	5108.94	63.69	0.09	0.09	*VB	80.2131
		5688669.56	2.15e+06	100.00	100.00		

Missing Component Report

Component	Expected Retention (Calibration File)
C-10	1.918
C-12	3.213
C-16	5.395
C-22	7.901
C-24	8.596
C-36	11.888
C-40	12.858
C-50	18.329

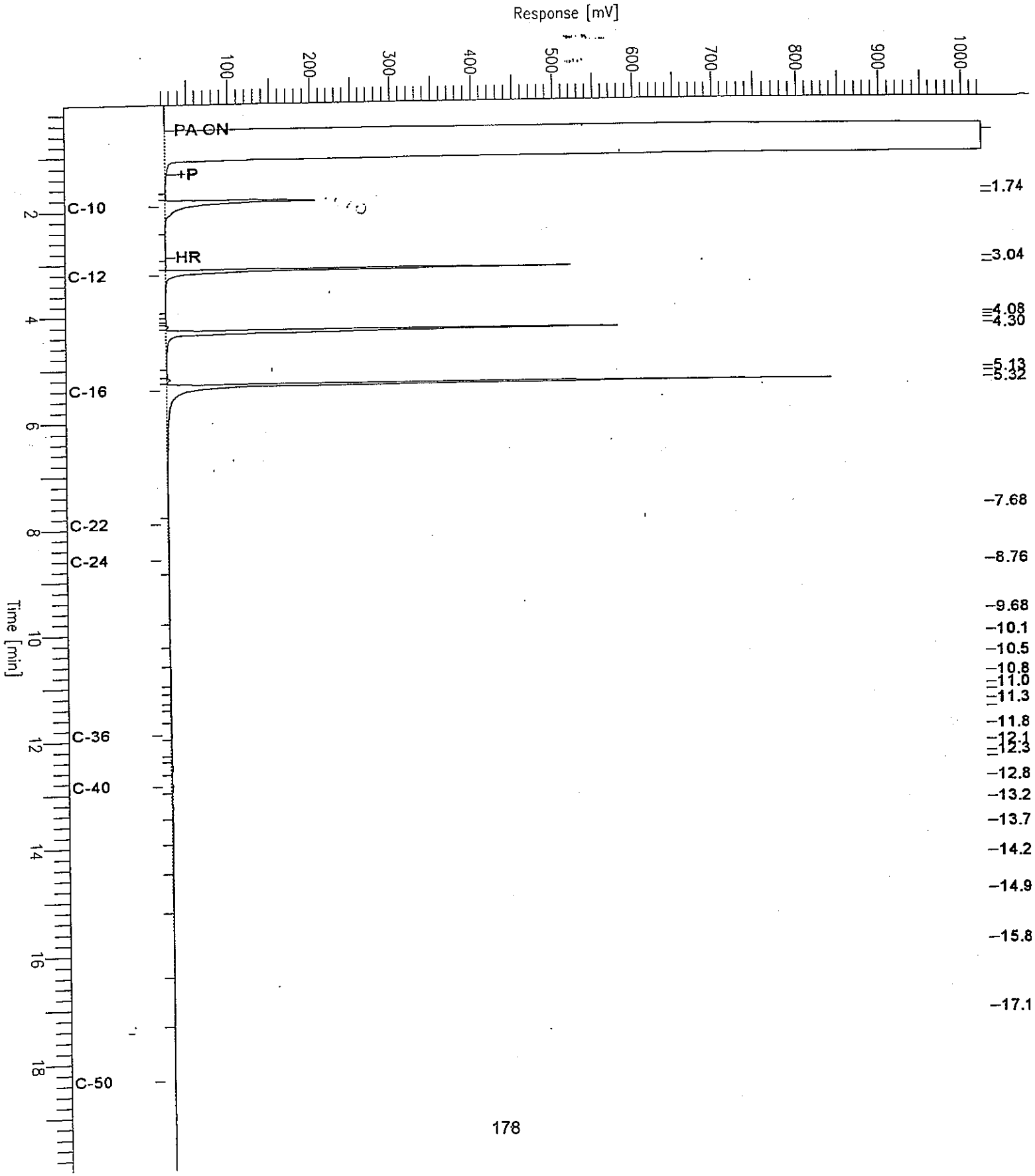
Chromatogram

Sample Name : c10-16
FileName : G:\GC17\CHA\181A007.RAW
Method : ATEH168.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 16 mV

Sample #:
Date : 6/30/04 10:13 AM
Time of Injection: 6/29/04 03:45 PM
Low Point : 16.24 mV
Plot Scale: 1007.8 mV

High Point : 1024.00 mV



Software Version: 4.1<2F12>
Sample Name : c12-60 Time : 6/30/04 10:14 AM
Sample Number: Study :
Operator :

Instrument : GC17 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/8

Interface Serial # : NONE Data Acquisition Time: 6/29/04 04:13 PM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC17\CHA\181A008.RAW
Result File : G:\GC17\CHA\181A008P.RST
Inst Method : G:\GC17\20mina from G:\GC17\CHA\181A008P.RST
Proc Method : G:\GC17\ATEH168.MTH
Calib Method : G:\GC17\ATEH168.MTH
Sequence File : G:\GC17\181.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

DEFAULT REPORT

	Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. [%]	BL	Area/Height [sec]
	1	1.907	820.93	311.02	0.00	0.00	*BV	2.6394
	2	1.965	1532.69	253.42	0.00	0.00	*VB	6.0480
	3	2.953	2424.62	1160.78	0.01	0.01	*BV	2.0888
	4	3.014	11276.99	4307.16	0.03	0.03	*VV	2.6182
12	5	3.144	2041091.80	1.02e+06	5.60	5.60	*VV	1.9965
	6	3.908	1193.77	227.43	0.00	0.00	*VB	5.2489
	7	4.104	2705.16	1121.31	0.01	0.01	*BV	2.4125
	8	4.169	11449.43	4708.57	0.03	0.03	*VV	2.4316
14	9	4.304	2209469.25	1.01e+06	6.06	6.06	*VE	2.1848
	10	5.127	5076.44	637.64	0.01	0.01	*EV	7.9613
	11	5.189	8865.40	5027.20	0.02	0.02	*VV	1.7635
16	12	5.327	2264335.39	1.04e+06	6.21	6.21	*VE	2.1759
	13	5.816	7092.22	652.34	0.02	0.02	*EV	10.8719
	14	5.960	4288.59	1158.20	0.01	0.01	*VV	3.7028
	15	5.999	8767.19	2658.24	0.02	0.02	*VV	3.2981
	16	6.095	17997.10	8679.52	0.05	0.05	*VV	2.0735
18	17	6.236	2384572.52	1.03e+06	6.54	6.54	*VE	2.3170
	18	6.597	14257.76	1494.19	0.04	0.04	*EV	9.5421

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
19	6.664	5284.16	1203.42	0.01	0.01	*VV	4.3909
20	6.832	10420.59	1422.67	0.03	0.03	*VV	7.3247
21	6.944	4473.70	1460.46	0.01	0.01	*VV	3.0632
22	7.063	2498797.20	1.03e+06	6.85	6.85	*VE	2.4245
23	7.451	11034.76	1412.03	0.03	0.03	*EV	7.8148
24	7.591	13537.23	1618.67	0.04	0.04	*VV	8.3632
25	7.704	7440.86	1948.45	0.02	0.02	*VV	3.8189
26	7.822	2646363.78	1.05e+06	7.26	7.26	*VE	2.5317
27	8.161	17403.35	2281.46	0.05	0.05	*EV	7.6282
28	8.331	11629.77	1795.81	0.03	0.03	*VV	6.4761
29	8.400	9965.15	4109.87	0.03	0.03	*VV	2.4247
30	8.520	2723954.19	990452.21	7.47	7.47	*VE	2.7502
31	8.825	25695.14	2690.18	0.07	0.07	*EV	9.5515
32	9.050	6945.39	2641.33	0.02	0.02	*VV	2.6295
33	9.168	2801496.66	1.07e+06	7.68	7.68	*VV	2.6129
34	9.438	18973.28	5397.07	0.05	0.05	*VV	3.5155
35	9.652	8705.54	2579.10	0.02	0.02	*VV	3.3754
36	9.767	2862913.39	1.09e+06	7.85	7.85	*VV	2.6280
37	10.012	18421.93	5762.19	0.05	0.05	*VV	3.1970
38	10.212	13370.15	5325.08	0.04	0.04	*VV	2.5108
39	10.327	2912225.44	1.09e+06	7.98	7.98	*VV	2.6705
40	10.546	21507.63	8688.21	0.06	0.06	*VV	2.4755
41	10.738	7282.80	1507.85	0.02	0.02	*VV	4.8299
42	10.848	2896509.77	1.07e+06	7.94	7.94	*VV	2.7158
43	11.063	21424.44	8535.22	0.06	0.06	*VV	2.5101
44	11.244	7659.19	2529.63	0.02	0.02	*VV	3.0278
45	11.295	128911.59	94858.26	0.35	0.35	*VV	1.3590
46	11.522	18907.13	7762.22	0.05	0.05	*VV	2.4358
47	11.581	5706.64	2490.27	0.02	0.02	*VV	2.2916
48	11.690	19396.05	5611.62	0.05	0.05	*VV	3.4564
49	11.798	2770364.91	977027.57	7.60	7.60	*VE	2.8355
50	11.933	34237.78	2950.87	0.09	0.09	*EV	11.6026
51	12.197	55652.43	16303.00	0.15	0.15	*VV	3.4136
52	12.423	17120.65	2953.81	0.05	0.05	*VV	5.7961
53	12.557	13767.29	2756.70	0.04	0.04	*VV	4.9941
54	12.729	2439763.61	774830.05	6.69	6.69	*VV	3.1488
55	12.787	59196.21	38049.38	0.16	0.16	*VE	1.5558
56	12.892	8014.91	1935.95	0.02	0.02	*EV	4.1400
57	12.949	13352.03	4772.06	0.04	0.04	*VV	2.7980
58	13.084	18308.79	2187.10	0.05	0.05	*VV	8.3713
59	13.240	45763.49	11499.01	0.13	0.13	*VV	3.9798
60	13.562	37633.83	7108.30	0.10	0.10	*VV	5.2944
61	13.747	4895.67	1581.04	0.01	0.01	*VV	3.0965
62	13.839	13149.91	2459.22	0.04	0.04	*VV	5.3472
63	14.036	1511667.35	355828.10	4.14	4.14	*VE	4.2483
64	14.340	16143.84	1850.07	0.04	0.04	*EV	8.7261
65	14.426	26496.20	3197.90	0.07	0.07	*VV	8.2855
66	14.915	35823.66	2499.31	0.10	0.10	*VV	14.3334
67	15.227	14536.78	1170.46	0.04	0.04	*VV	12.4197
68	15.482	22787.23	2076.39	0.06	0.06	*VV	10.9744

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
69	16.144	57527.62	5486.56	0.16	0.16	*VV	10.4852
70	16.912	35804.35	2181.06	0.10	0.10	*VV	16.4160
71	17.930	455901.33	59520.17	1.25	1.25	*VE	7.6596
72	19.113	13583.62	600.27	0.04	0.04	*EB	22.6290
		36475067.65	1.40e+07	100.00	100.00		

Missing Component Report

Component	Expected Retention (Calibration File)
C-10	1.918
C-12	3.213
C-16	5.395
C-22	7.901
C-24	8.596
C-36	11.888
C-40	12.858

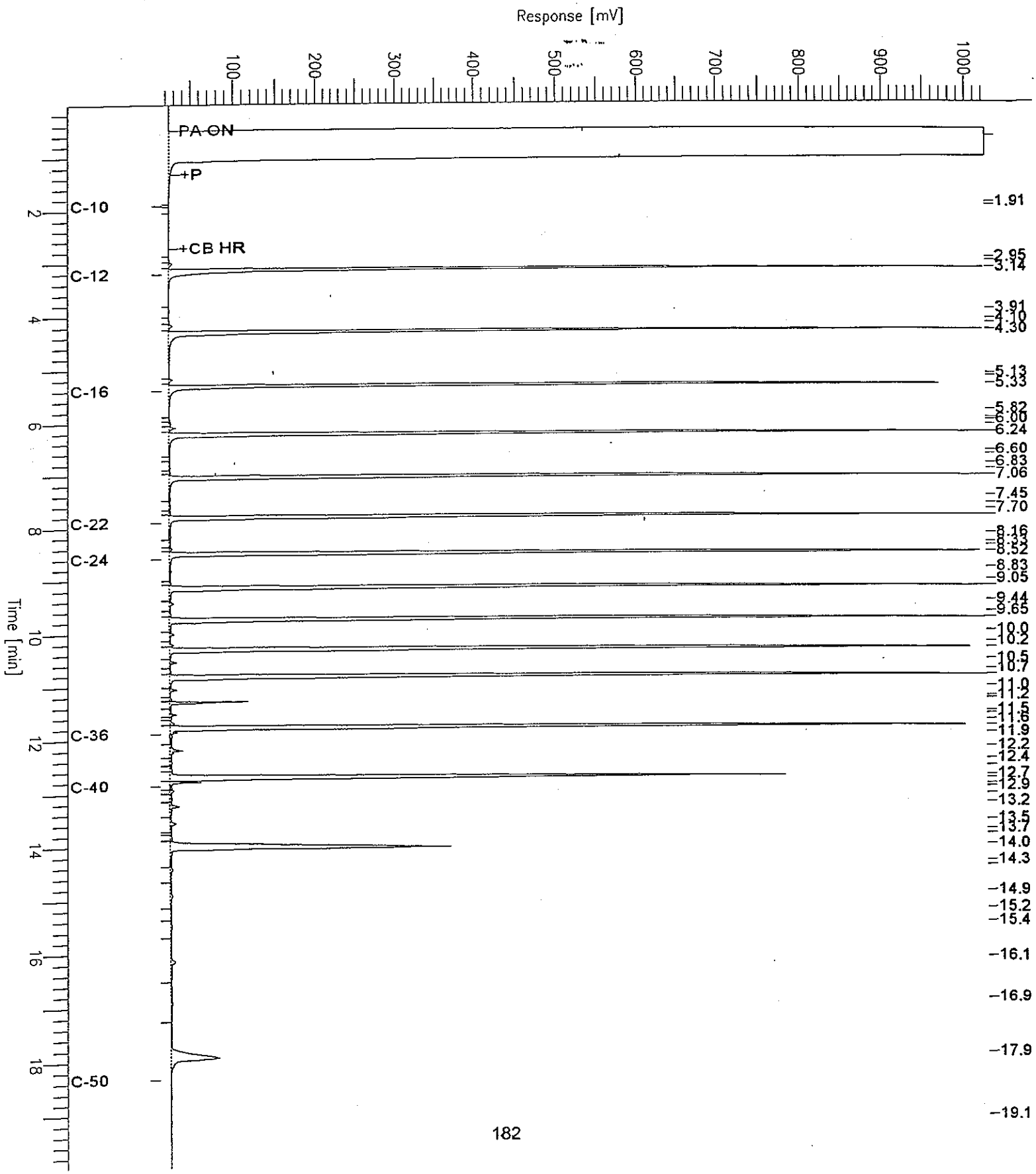
Chromatogram

Sample Name : c12-60
FileName : G:\GC17\CHA\181A008.RAW
Method : ATEH168.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 16 mV

Sample #:
Date : 6/30/04 10:14 AM
Time of Injection: 6/29/04 04:13 PM
Low Point : 16.20 mV
Plot Scale: 1007.8 mV

High Point : 1024.00 mV



Software Version: 4.1<2F12>
Sample Name : c50
Sample Number:
Operator :

Time : 6/30/04 10:15 AM
Study :

Instrument : GC17
AutoSampler : HP7673A
Rack/Vial : 0/9

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 6/29/04 04:41 PM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC17\CHA\181A009.RAW
Result File : G:\GC17\CHA\181A009P.RST
Inst Method : G:\GC17\20mina from G:\GC17\CHA\181A009P.RST
Proc Method : G:\GC17\ATEH168.MTH
Calib Method : G:\GC17\ATEH168.MTH
Sequence File : G:\GC17\181.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
1	1.908	1424.28	303.49	0.09	0.09	*BB	4.6931
2	8.734	11330.47	266.29	0.75	0.75	*BV	42.5491
3	9.163	31163.26	1513.86	2.07	2.07	*VV	20.5852
4	9.678	6070.23	508.87	0.40	0.40	*VV	11.9289
5	10.104	3618.58	362.22	0.24	0.24	*VV	9.9899
6	10.378	7836.81	540.86	0.52	0.52	*VV	14.4895
7	10.496	4767.71	684.23	0.32	0.32	*VV	6.9680
8	10.871	12072.96	625.68	0.80	0.80	*VV	19.2958
9	11.086	6553.49	756.16	0.44	0.44	*VV	8.6668
10	11.230	3853.95	840.69	0.26	0.26	*VV	4.5843
11	11.335	7490.49	642.49	0.50	0.50	*VV	11.6586
12	11.566	4964.39	906.87	0.33	0.33	*VV	5.4742
13	11.800	8986.61	1864.73	0.60	0.60	*VV	4.8193
14	12.002	12480.17	1957.88	0.83	0.83	*VV	6.3743
15	12.223	11556.86	1947.14	0.77	0.77	*VV	5.9353
16	12.489	19256.88	2021.92	1.28	1.28	*VV	9.5240
17	12.801	28187.20	1372.96	1.87	1.87	*VV	20.5302
18	12.993	4419.03	1490.58	0.29	0.29	*VV	2.9646

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
19	13.041	15750.72	1675.21	1.05	1.05	*VV	9.4022
20	13.643	33136.07	1306.86	2.20	2.20	*VV	25.3555
21	14.005	17071.85	1140.93	1.13	1.13	*VV	14.9631
22	14.243	16228.90	1066.13	1.08	1.08	*VV	15.2223
23	14.650	22563.28	1111.04	1.50	1.50	*VV	20.3083
24	14.965	17181.49	889.26	1.14	1.14	*VV	19.3211
25	15.924	34950.05	673.87	2.32	2.32	*VV	51.8650
26	16.133	13140.25	826.81	0.87	0.87	*VV	15.8926
27	16.698	13649.47	630.83	0.91	0.91	*VV	21.6375
28	16.896	15897.42	2125.67	1.06	1.06	*VV	7.4788
29	18.027	1107433.53	112173.66	73.57	73.57	*VE	9.8725
30	19.047	12237.26	322.96	0.81	0.81	*EB	37.8913
		1505273.67	142550.14	100.00	100.00		

Missing Component Report

Component	Expected Retention (Calibration File)
C-10	1.918
C-12	3.213
C-16	5.395
C-22	7.901
C-24	8.596
C-36	11.888
C-40	12.858

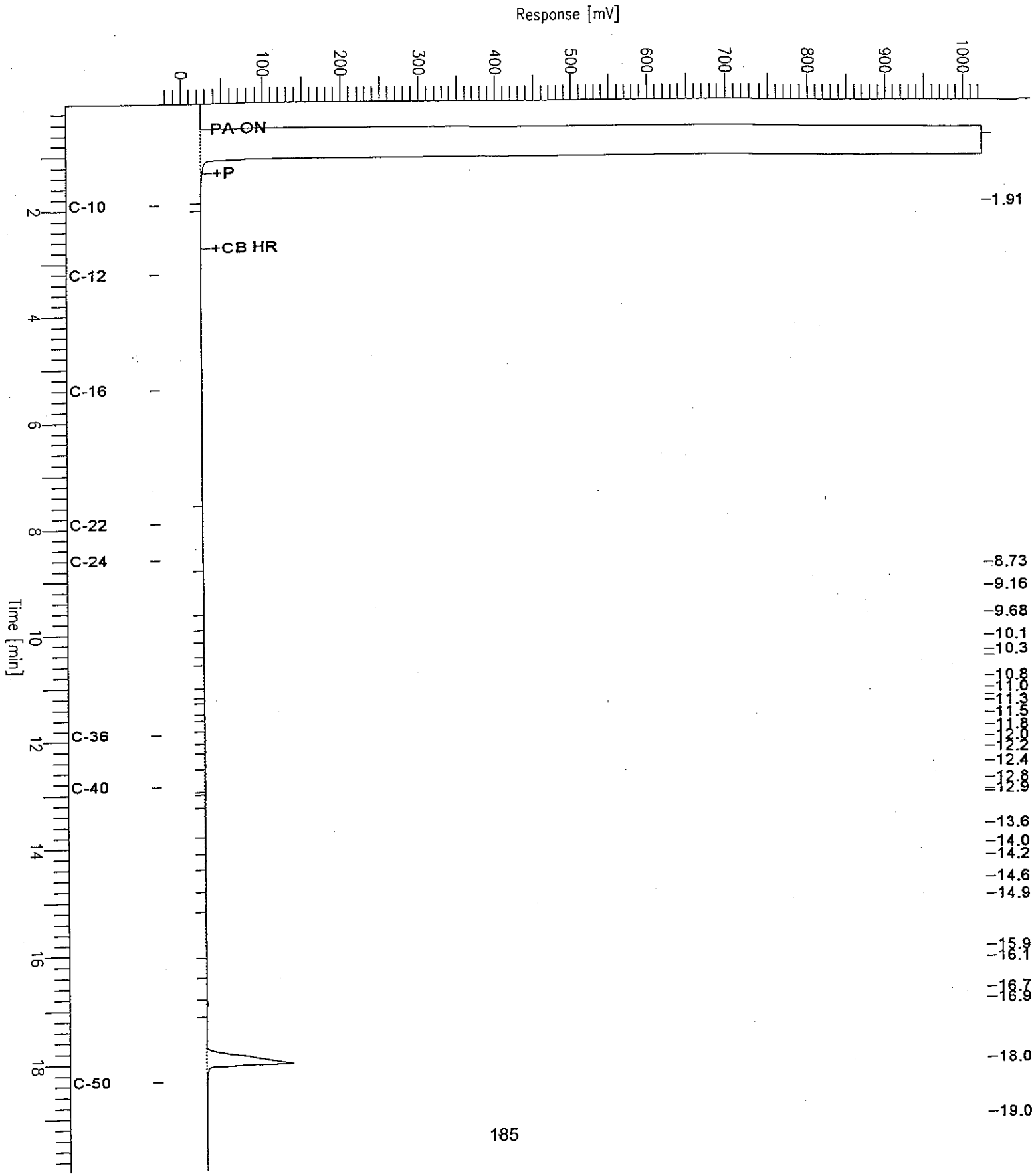
Chromatogram

Sample Name : c50
FileName : G:\GC17\CHA\181A009.RAW
Method : ATEH168.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: -29 mV

Sample #:
Date : 6/30/04 10:15 AM
Time of Injection: 6/29/04 04:41 PM
Low Point : -28.55 mV
Plot Scale: 1052.6 mV

High Point : 1024.00 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By:
Calnum: 174110421005 Name: mo Type: (normal) Date: 17-MAR-2004 03:10 Inj Vol (uL): 3

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	076a023	174110421023	mo-50	17-MAR-2004 03:10	04WS0294
2	076a024	174110421024	mo-250	17-MAR-2004 03:39	04WS0293
3	076a025	174110421025	mo-500	17-MAR-2004 04:08	04WS0292
4	076a026	174110421026	mo-1000	17-MAR-2004 04:37	04WS0291
5	076a027	174110421027	mo-2500	17-MAR-2004 05:06	04WS0290
6	076a028	174110421028	mo-5000	17-MAR-2004 05:34	04WS0452

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C20-C36	25035	29252	28947	28729	31236	28882	AVRG	R		3.487E-5		mg/L	28680	7	0.995	20	
Motor Oil C22-C32	20977	24357	23277	23835	24740	23289	AVRG	R		4.271E-5		mg/L	23413	6	0.995	20	
Motor Oil C22-C36	22951	26791	26560	26258	28510	26396	AVRG	R		3.810E-5		mg/L	26244	7	0.995	20	
Motor Oil C24-C36	18835	22037	21985	21435	23510	21672	AVRG	R		4.634E-5		mg/L	21579	7	0.995	20	

189

J S. 3.18.04.
PR 3/19/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 3/18/04 03:38 PM
Sample Name : ical,04ws0294,mo-50
Data File : G:\GC17\CHA\076A023.RAW Date: 3/17/04 03:10 AM
Sequence File: G:\GC17\076.SEQ Cycle: 23 Channel : A
Instrument : GC17 Rack/Vial: 0/23 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL.	FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00		0.0000
C-12	0	0.00	0.0000	1.00	1.00		0.0000
JETA:10-16	196	1.96e-11	1.956e-11	1.00	1.00		1.956e-11
JP8:10-16	196	1.96e-11	1.956e-11	1.00	1.00		1.956e-11
KER:10-16	196	1.96e-11	1.956e-11	1.00	1.00		1.956e-11
JP5:10-16	196	0.01	0.0081	1.00	1.00		0.0081
DSL:10-20	19763	0.78	0.7827	1.00	1.00		0.7827
DSL:10-22	123967	4.77	4.7665	1.00	1.00		4.7665
DSL:10-24	329767	12.58	12.5817	1.00	1.00		12.5817
C-16	0	0.00	0.0000	1.00	1.00		0.0000
DSL:12-22	123967	5.60	5.6036	1.00	1.00		5.6036
TROIL:12-22	123967	1.24e-08	1.2397e-08	1.00	1.00		1.2397e-08
DSL:10-28	864661	32.93	32.9284	1.00	1.00		32.9284
DSL:12-24	329767	14.77	14.7715	1.00	1.00		14.7715
DSL:12-32	1172841	52.33	52.3256	1.00	1.00		52.3256
C-22	0	0.00	0.0000	1.00	1.00		0.0000
BUNKC:12-40	1305634	1.31e-07	1.3056e-07	1.00	1.00		1.3056e-07
HYFL:12-40	1305634	1.31e-07	1.3056e-07	1.00	1.00		1.3056e-07
TROIL:12-40	1305634	1.31e-07	1.3056e-07	1.00	1.00		1.3056e-07
C-24	0	0.00	0.0000	1.00	1.00		0.0000
MO:22-32	1048874	44.84	44.8361	1.00	1.00		44.8361
MO:20-36	1251774	43.68	43.6843	1.00	1.00		43.6843
MO:22-36	1147570	43.76	43.7572	1.00	1.00		43.7572
MO:24-36	941771	43.67	43.6687	1.00	1.00		43.6687
C-36	0	0.00	0.0000	1.00	1.00		0.0000
C-40	0	0.00	0.0000	1.00	1.00		0.0000

CAL FACTOR = 21579.07137

% RSD = 7.08

CURTIS & TOMPKINS,LTD. BERKELEY

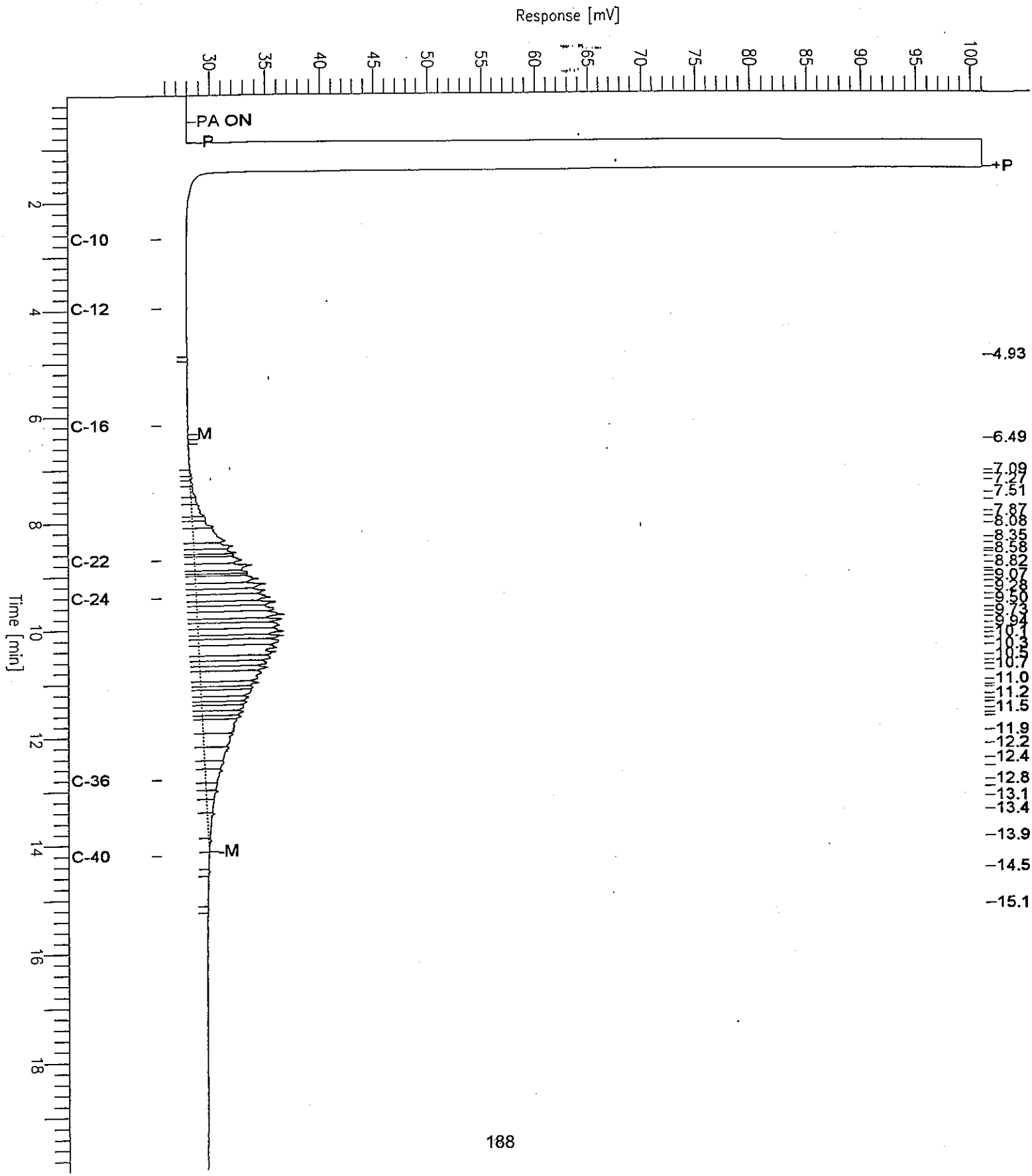
Analyzed By: JS 3.18.04 Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\076A023P.TX0

Chromatogram

Sample Name : ical,04ws0294,mo-50
FileName : G:\GC17\CHA\076A023.RAW
Method : ATEH077.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #: 50mg/L
Date : 3/18/04 03:38 PM
Time of Injection: 3/17/04 03:10 AM
Low Point : 25.58 mV High Point : 101.00 mV
Plot Scale: 75.4 mV



Software Version: 4.1<2F12>
Date: 3/18/04 03:39 PM
Sample Name : ical,04ws0293,mo-250
Data File : G:\GC17\CHA\076A024.RAW Date: 3/17/04 03:39 AM
Sequence File: G:\GC17\076.SEQ Cycle: 24 Channel : A
Instrument : GC17 Rack/Vial: 0/24 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	926	9.26e-11	9.263e-11	1.00	1.00	9.263e-11
JP8:10-16	926	9.26e-11	9.263e-11	1.00	1.00	9.263e-11
KER:10-16	926	9.26e-11	9.263e-11	1.00	1.00	9.263e-11
JP5:10-16	926	0.04	0.0382	1.00	1.00	0.0382
DSL:10-20	170777	6.76	6.7637	1.00	1.00	6.7637
DSL:10-22	785979	30.22	30.2204	1.00	1.00	30.2204
DSL:10-24	1974478	75.33	75.3330	1.00	1.00	75.3330
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	785979	35.53	35.5281	1.00	1.00	35.5281
TROIL:12-22	785979	7.86e-08	7.8598e-08	1.00	1.00	7.8598e-08
DSL:10-28	5077515	193.36	193.3644	1.00	1.00	193.3644
DSL:12-24	1974478	88.44	88.4444	1.00	1.00	88.4444
DSL:12-32	6875279	306.74	306.7365	1.00	1.00	306.7365
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	7614753	7.61e-07	7.6148e-07	1.00	1.00	7.6148e-07
HYFL:12-40	7614753	7.61e-07	7.6148e-07	1.00	1.00	7.6148e-07
TROIL:12-40	7614753	7.61e-07	7.6148e-07	1.00	1.00	7.6148e-07
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	6089300	260.30	260.2984	1.00	1.00	260.2984
MO:20-36	7313073	255.21	255.2109	1.00	1.00	255.2109
MO:22-36	6697870	255.39	255.3918	1.00	1.00	255.3918
MO:24-36	5509372	255.46	255.4626	1.00	1.00	255.4626
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

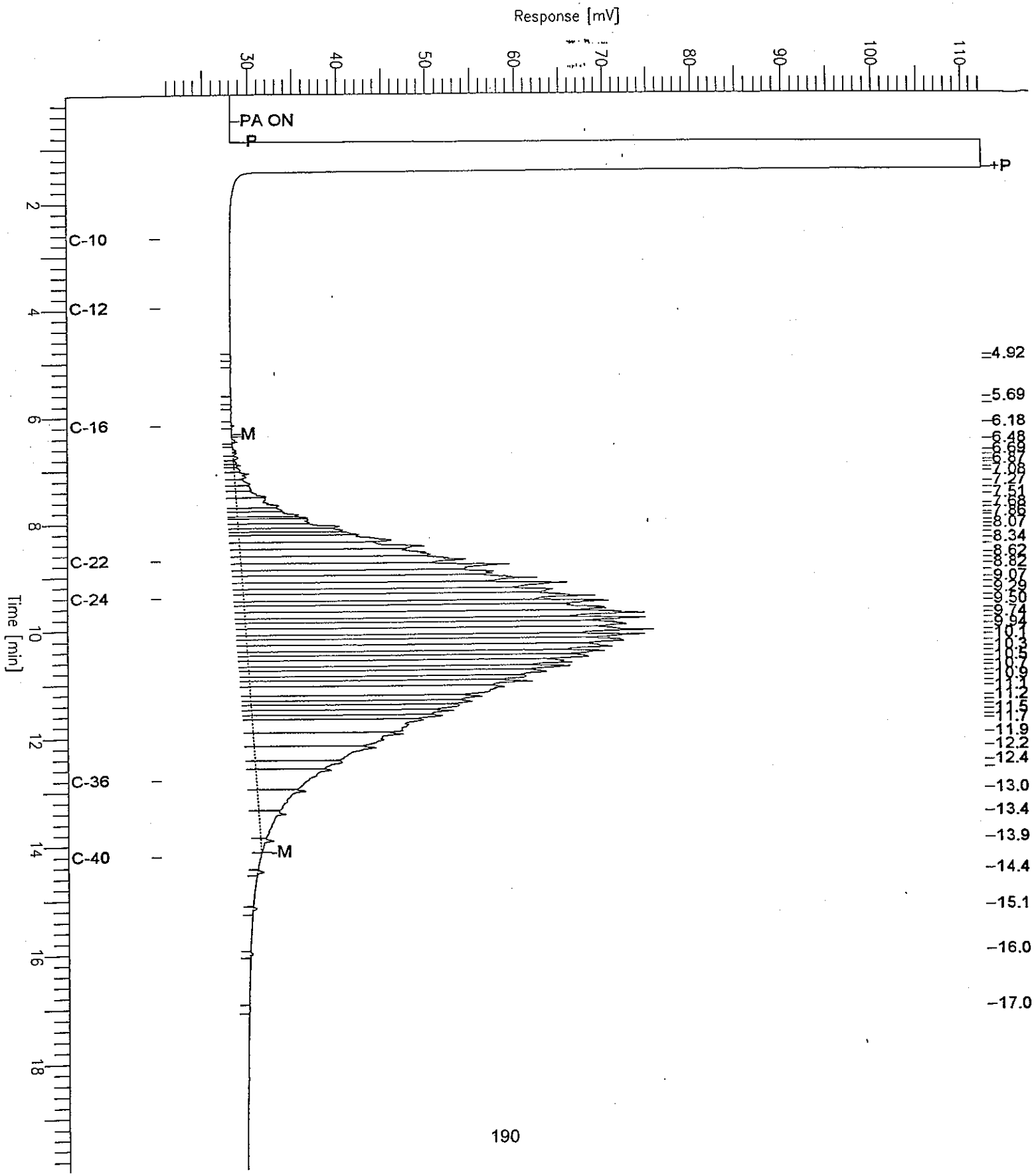
Analyzed By: J.S. 3.18.04 Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\076A024P.TXO

Chromatogram

Sample Name : ical,04ws0293,mo-250
FileName : G:\GC17\CHA\076A024.RAW
Method : ATEH077.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #: 250mg/L
Date : 3/18/04 03:39 PM
Time of Injection: 3/17/04 03:39 AM
Low Point : 20.20 mV High Point : 112.27 mV
Plot Scale: 92.1 mV



Software Version: 4.1<2F12>
Date: 3/18/04 03:39 PM
Sample Name : ical,04ws0292,mo-500
Data File : G:\GC17\CHA\076A025.RAW Date: 3/17/04 04:08 AM
Sequence File: G:\GC17\076.SEQ Cycle: 25 Channel : A
Instrument : GC17 Rack/Vial: 0/25 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	2352	2.35e-10	2.3518e-10	1.00	1.00	2.3518e-10
JP8:10-16	2352	2.35e-10	2.3518e-10	1.00	1.00	2.3518e-10
KER:10-16	2352	2.35e-10	2.3518e-10	1.00	1.00	2.3518e-10
JP5:10-16	2352	0.10	0.0969	1.00	1.00	0.0969
DSL:10-20	349072	13.83	13.8252	1.00	1.00	13.8252
DSL:10-22	1542453	59.31	59.3063	1.00	1.00	59.3063
DSL:10-24	3830097	146.13	146.1311	1.00	1.00	146.1311
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1542453	69.72	69.7226	1.00	1.00	69.7226
TROIL:12-22	1542453	1.54e-07	1.5425e-07	1.00	1.00	1.5425e-07
DSL:10-28	9751063	371.34	371.3448	1.00	1.00	371.3448
DSL:12-24	3830097	171.56	171.5647	1.00	1.00	171.5647
DSL:12-32	13181088	588.07	588.0665	1.00	1.00	588.0665
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	14861595	1.49e-06	1.4862e-06	1.00	1.00	1.4862e-06
HYFL:12-40	14861595	1.49e-06	1.4862e-06	1.00	1.00	1.4862e-06
TROIL:12-40	14861595	1.49e-06	1.4862e-06	1.00	1.00	1.4862e-06
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	11638634	497.52	497.5151	1.00	1.00	497.5151
MO:20-36	14473356	505.09	505.0898	1.00	1.00	505.0898
MO:22-36	13279974	506.37	506.3694	1.00	1.00	506.3694
MO:24-36	10992330	509.70	509.7005	1.00	1.00	509.7005
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

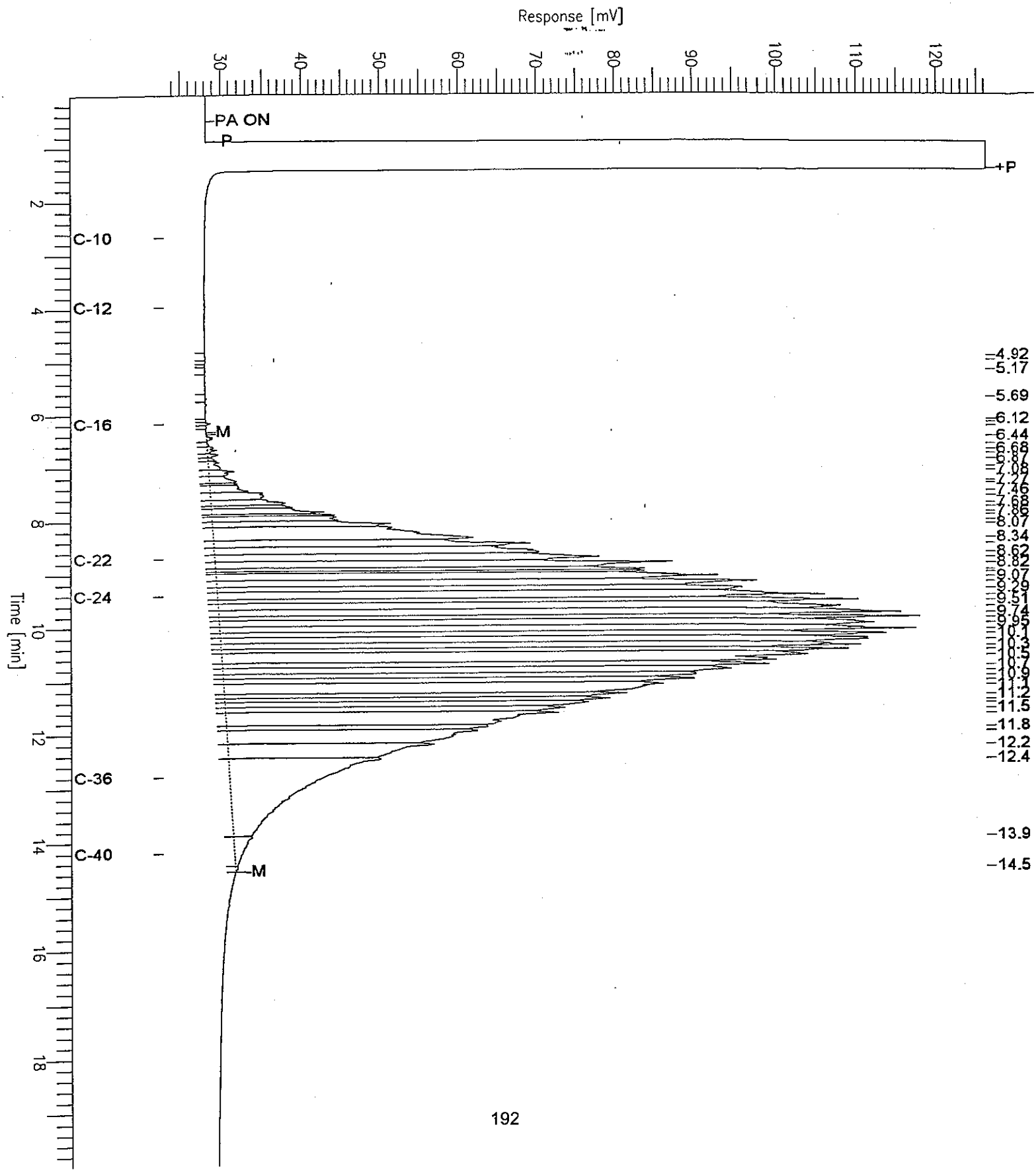
Analyzed By: 3/18/04 Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\076A025P.TXO

Chromatogram

Sample Name : ical,04ws0292,mo-500
FileName : G:\GC17\CHA\076A025.RAW
Method : ATEH077.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 500mg/L
Date : 3/18/04 03:39 PM
Time of Injection: 3/17/04 04:08 AM
Low Point : 23.05 mV High Point : 126.23 mV
Plot Scale: 103.2 mV



Software Version: 4.1<2F12>
Date: 3/18/04 03:40 PM
Sample Name : ical,04ws0291,mo-1000
Data File : G:\GC17\CHA\076A026.RAW Date: 3/17/04 04:37 AM
Sequence File: G:\GC17\076.SEQ Cycle: 26 Channel : A
Instrument : GC17 Rack/Vial: 0/26 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	5414	5.41e-10	5.4144e-10	1.00	1.00	5.4144e-10
JP8:10-16	5414	5.41e-10	5.4144e-10	1.00	1.00	5.4144e-10
KER:10-16	5414	5.41e-10	5.4144e-10	1.00	1.00	5.4144e-10
JP5:10-16	5414	0.22	0.2231	1.00	1.00	0.2231
DSL:10-20	739200	29.28	29.2765	1.00	1.00	29.2765
DSL:10-22	3210245	123.43	123.4318	1.00	1.00	123.4318
DSL:10-24	8032973	306.48	306.4849	1.00	1.00	306.4849
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	3209846	145.09	145.0926	1.00	1.00	145.0926
TROIL:12-22	3209846	3.21e-07	3.2098e-07	1.00	1.00	3.2098e-07
DSL:10-28	20322994	773.95	773.9503	1.00	1.00	773.9503
DSL:12-24	8032573	359.81	359.8097	1.00	1.00	359.8097
DSL:12-32	27044826	1206.59	1206.5890	1.00	1.00	1206.5890
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	29467995	2.95e-06	2.9468e-06	1.00	1.00	2.9468e-06
[illegible]FL:12-40	29467995	2.95e-06	2.9468e-06	1.00	1.00	2.9468e-06
[illegible]ROIL:12-40	29467995	2.95e-06	2.9468e-06	1.00	1.00	2.9468e-06
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	23834981	1018.87	1018.8706	1.00	1.00	1018.8706
MO:20-36	28729195	1002.59	1002.5887	1.00	1.00	1002.5887
MO:22-36	26258149	1001.23	1001.2311	1.00	1.00	1001.2311
MO:24-36	21435422	993.93	993.9336	1.00	1.00	993.9336
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

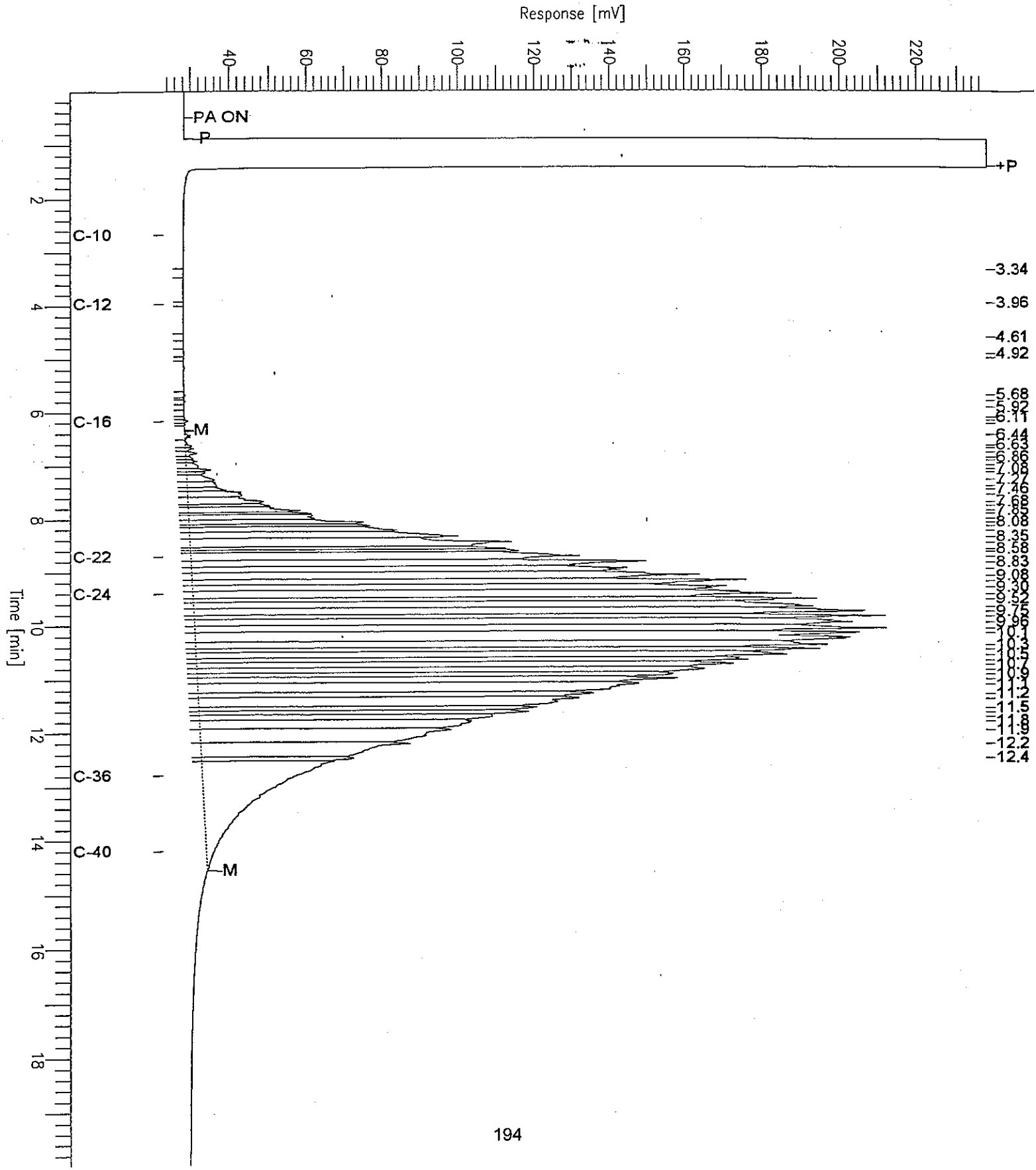
Analyzed By: JS 3.18.04 Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\076A026P.TX0

Chromatogram

Sample Name : ical,04ws0291,mo-1000
FileName : G:\GC17\CHA\076A026.RAW
Method : ATEH077.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 1000mg/L
Date : 3/18/04 03:40 PM
Time of Injection: 3/17/04 04:37 AM
Low Point : 23.16 mV High Point : 237.82 mV
Plot Scale: 214.7 mV



Software Version: 4.1<2F12>
Date: 3/18/04 03:40 PM
Sample Name : ical,04ws0290,mo-2500
Data File : G:\GC17\CHA\076A027.RAW Date: 3/17/04 05:06 AM
Sequence File: G:\GC17\076.SEQ Cycle: 27 Channel : A
Instrument : GC17 Rack/Vial: 0/27 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	16836	1.68e-09	1.6836e-09	1.00	1.00	1.6836e-09
JP8:10-16	16836	1.68e-09	1.6836e-09	1.00	1.00	1.6836e-09
KER:10-16	16836	1.68e-09	1.6836e-09	1.00	1.00	1.6836e-09
JP5:10-16	16836	0.69	0.6938	1.00	1.00	0.6938
DSL:10-20	1746124	69.16	69.1564	1.00	1.00	69.1564
DSL:10-22	8563100	329.25	329.2457	1.00	1.00	329.2457
DSL:10-24	21062962	803.62	803.6228	1.00	1.00	803.6228
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	8561436	387.00	386.9972	1.00	1.00	386.9972
TROIL:12-22	8561436	8.56e-07	8.5614e-07	1.00	1.00	8.5614e-07
DSL:10-28	51238937	1951.31	1951.3065	1.00	1.00	1951.3065
DSL:12-24	21061298	943.42	943.4162	1.00	1.00	943.4162
DSL:12-32	70411217	3141.36	3141.3551	1.00	1.00	3141.3551
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	79907935	7.99e-06	7.9908e-06	1.00	1.00	7.9908e-06
HYFL:12-40	79907935	7.99e-06	7.9908e-06	1.00	1.00	7.9908e-06
TROIL:12-40	79907935	7.99e-06	7.9908e-06	1.00	1.00	7.9908e-06
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	61849781	2643.88	2643.8839	1.00	1.00	2643.8839
MO:20-36	78091136	2725.22	2725.2170	1.00	1.00	2725.2170
MO:22-36	71274160	2717.71	2717.7051	1.00	1.00	2717.7051
MO:24-36	58774297	2725.29	2725.2904	1.00	1.00	2725.2904
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

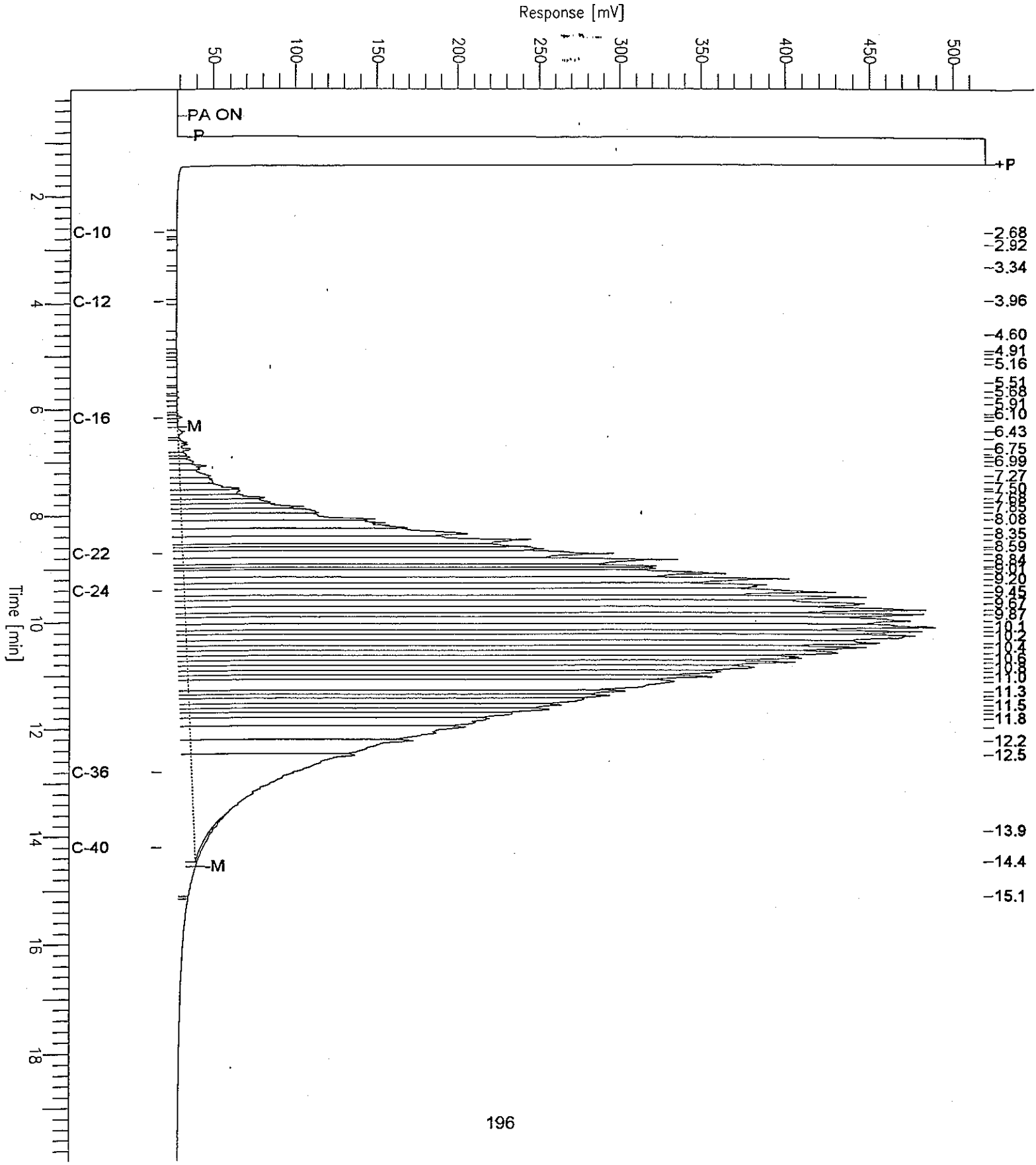
Analyzed By: J.S. 3.18.04 Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\076A027P.TXO

Chromatogram

Sample Name : ical,04ws0290,mo-2500
FileName : G:\GC17\CHA\076A027.RAW
Method : ATEH077.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 21 mV

Sample #: 2500mg/L
Date : 3/18/04 03:40 PM
Time of Injection: 3/17/04 05:06 AM
Low Point : 20.51 mV High Point : 519.56 mV
Plot Scale: 499.0 mV



Software Version: 4.1<2F12>
Date: 3/18/04 03:41 PM
Sample Name : ical,04ws0452,mo-5000
Data File : G:\GC17\CHA\076A028.RAW Date: 3/17/04 05:34 AM
Sequence File: G:\GC17\076.SEQ Cycle: 28 Channel : A
Instrument : GC17 Rack/Vial: 0/28 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	34458	3.45e-09	3.4458e-09	1.00	1.00	3.4458e-09
JP8:10-16	34458	3.45e-09	3.4458e-09	1.00	1.00	3.4458e-09
KER:10-16	34458	3.45e-09	3.4458e-09	1.00	1.00	3.4458e-09
JP5:10-16	34458	1.42	1.4200	1.00	1.00	1.4200
DSL:10-20	3738940	148.08	148.0831	1.00	1.00	148.0831
DSL:10-22	16169050	621.69	621.6895	1.00	1.00	621.6895
DSL:10-24	39788317	1518.06	1518.0579	1.00	1.00	1518.0579
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	16165602	730.72	730.7236	1.00	1.00	730.7236
TROIL:12-22	16165602	1.62e-06	1.6166e-06	1.00	1.00	1.6166e-06
DSL:10-28	99858614	3802.87	3802.8652	1.00	1.00	3802.8652
DSL:12-24	39784869	1782.12	1782.1166	1.00	1.00	1782.1166
DSL:12-32	132611696	5916.39	5916.3929	1.00	1.00	5916.3929
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	148143464	1.48e-05	0.0000	1.00	1.00	0.0000
HYFL:12-40	148143464	1.48e-05	0.0000	1.00	1.00	0.0000
TROIL:12-40	148143464	1.48e-05	0.0000	1.00	1.00	0.0000
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	116446094	4977.70	4977.7048	1.00	1.00	4977.7048
MO:20-36	144407972	5039.54	5039.5356	1.00	1.00	5039.5356
MO:22-36	131977862	5032.36	5032.3556	1.00	1.00	5032.3556
MO:24-36	108358595	5024.45	5024.4520	1.00	1.00	5024.4520
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

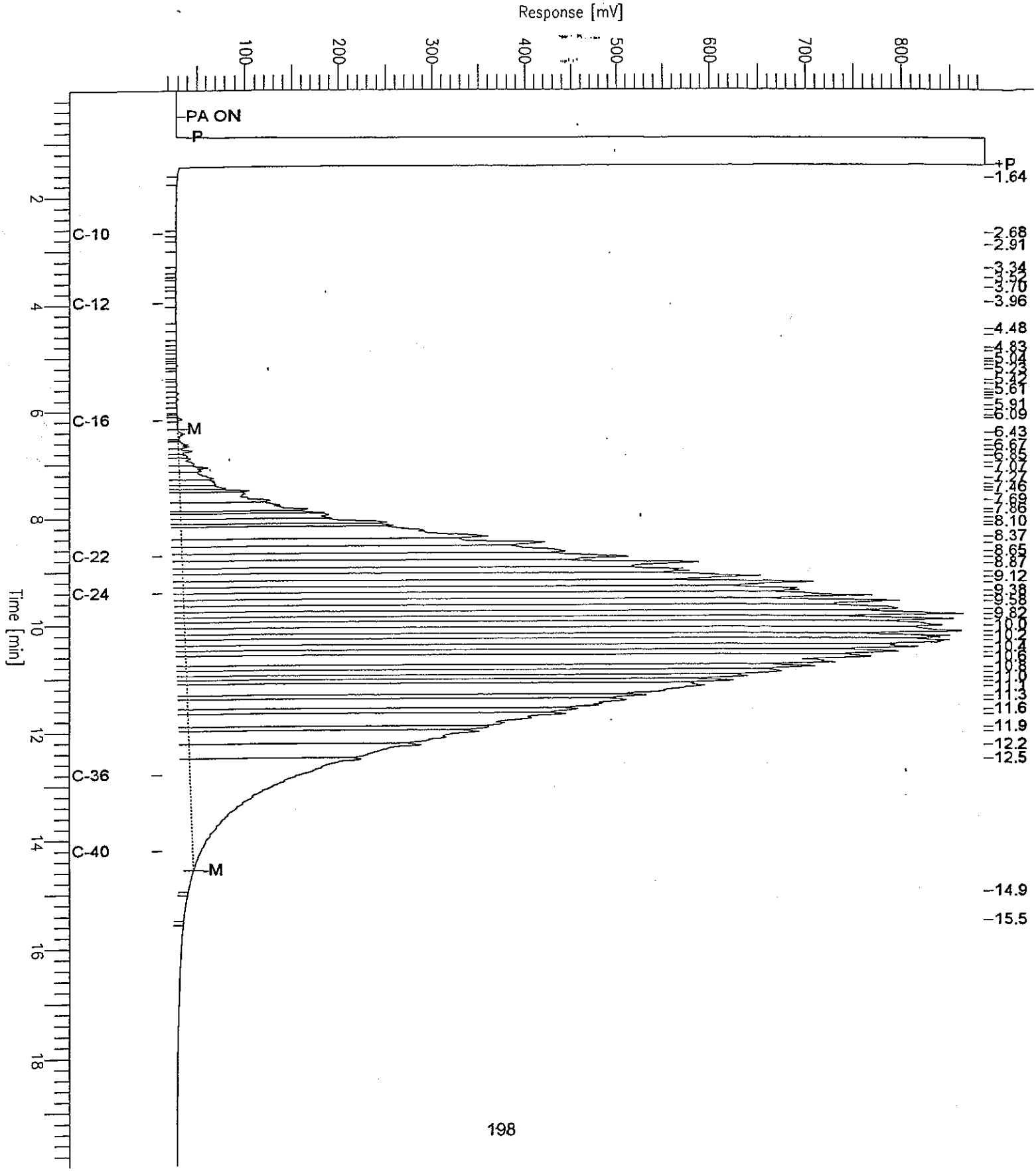
Analyzed By: JS 3.18.04 Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\076A028P.TXO

Chromatogram

Sample Name : ical,04ws0452,mo-5000
FileName : G:\GC17\CHA\076A028.RAW
Method : ATEH077.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #: 5000mg/L Page 1 of 1
Date : 3/18/04 03:41 PM
Time of Injection: 3/17/04 05:34 AM
Low Point : 15.12 mV High Point : 887.36 mV
Plot Scale: 872.2 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By:
Calnum: 174110421004 Name: hex Type: (normal) Date: 17-MAR-2004 13:50 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	076a033	174110421033	hex5	17-MAR-2004 13:50	04WS0533
2	076a034	174110421034	hex10	17-MAR-2004 14:19	04WS0534
3	076a035	174110421035	hex25	17-MAR-2004 14:48	04WS0535
4	076a036	174110421036	hex50	17-MAR-2004 15:16	04WS0536
5	076a037	174110421037	hex75	17-MAR-2004 15:45	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	31334	32010	31756	32289	30693	AVRG R		3.163E-5		mg/L	31616	2	0.995	20	

199

JS 3.18.04.

JR 3/19/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 3/18/04 12:22 PM
Sample Name : ical,04ws0533,hex5
Data File : G:\GC17\CHA\076A033.RAW Date: 3/17/04 01:50 PM
Sequence File: G:\GC17\076.SEQ Cycle: 33 Channel : A
Instrument : GC17 Rack/Vial: 0/33 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	156668	4.29	4.2943			10.031	8.5886

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Analyzed By: KS 3.18.04 Reviewed By: _____

Report stored in ASCII file: G:\GC17\CHA\076A033.TXO

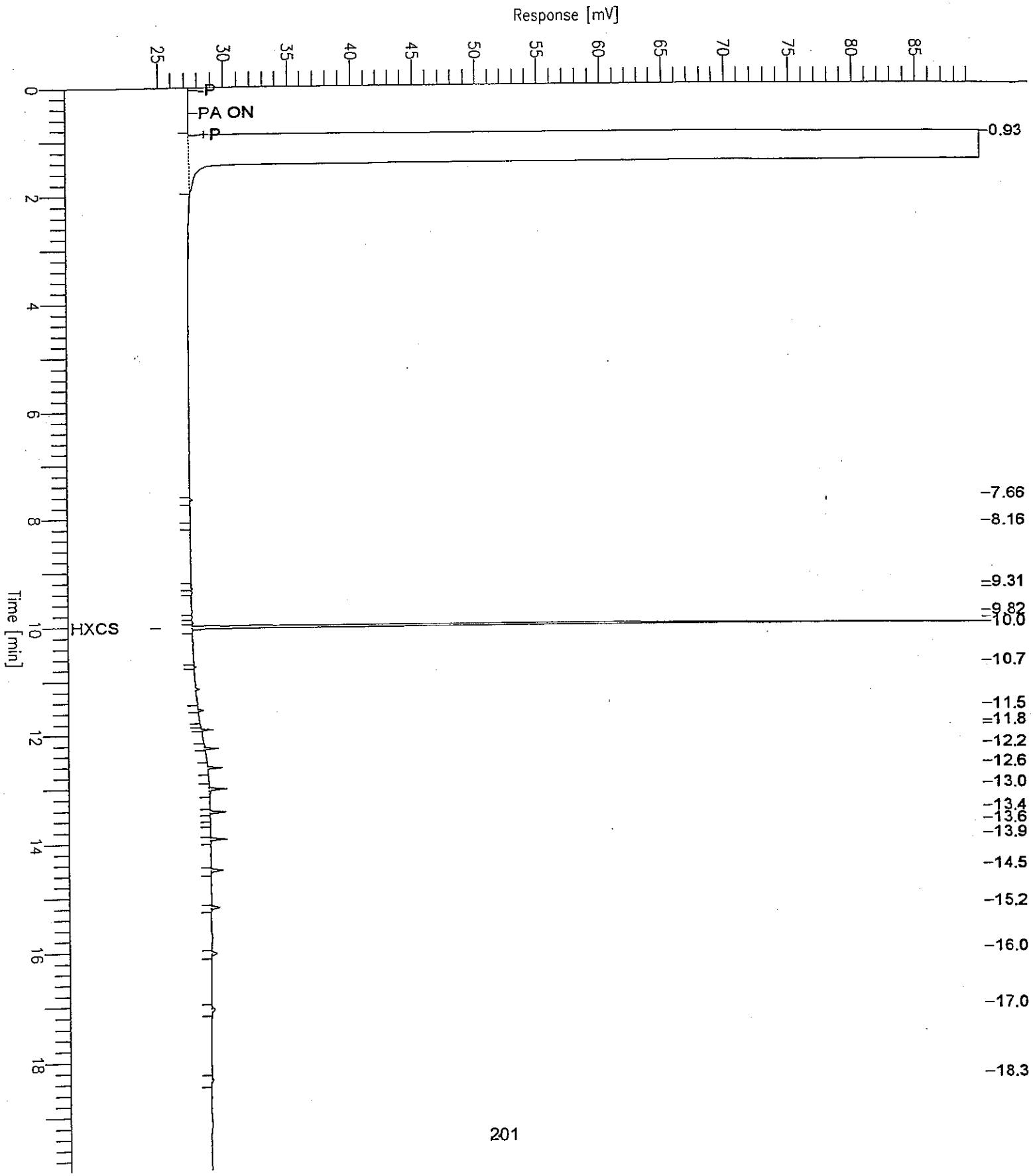
CAL FACTOR 31616.23447
% RSD 1.97

Chromatogram

Sample Name : ical,04ws0533,hex5
FileName : G:\GC17\CHA\076a033.raw
Method : 20MINA
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 5mg/L
Date : 3/18/04 12:22 PM
Time of Injection: 3/17/04 01:50 PM
Low Point : 25.00 mV
High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 3/18/04 12:22 PM
Sample Name : ical,04ws0534,hex10
Data File : G:\GC17\CHA\076A034.RAW Date: 3/17/04 02:19 PM
Sequence File: G:\GC17\076.SEQ Cycle: 34 Channel : A
Instrument : GC17 Rack/Vial: 0/34 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	320096	8.77	8.7738			10.036	17.5477

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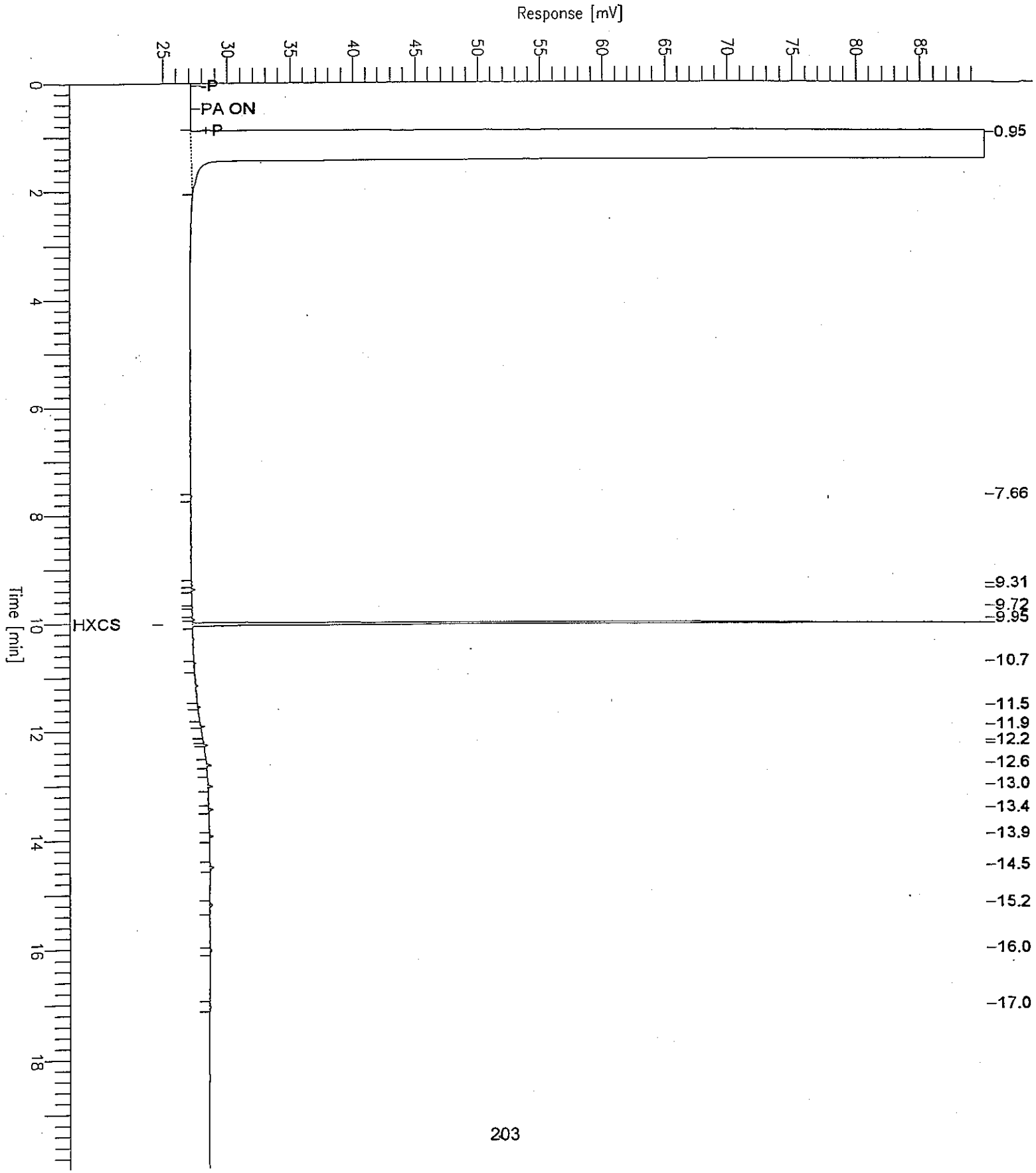
Analyzed By: J S 3.18.04. Reviewed By: _____

Report stored in ASCII file: G:\GC17\CHA\076A034.TXO

Chromatogram

Sample Name : ical,04ws0534,hex10
FileName : G:\GC17\CHA\076a034.raw
Method : 20MINA
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L Page 1 of 1
Date : 3/18/04 12:22 PM
Time of Injection: 3/17/04 02:19 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 3/18/04 12:22 PM
Sample Name : ical,04ws0535,hex25
Data File : G:\GC17\CHA\076A035.RAW Date: 3/17/04 02:48 PM
Sequence File: G:\GC17\076.SEQ Cycle: 35 Channel : A
Instrument : GC17 Rack/Vial: 0/35 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	793898	21.76	21.7608			10.042	43.5216

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: J S 3.18.04 Reviewed By: _____

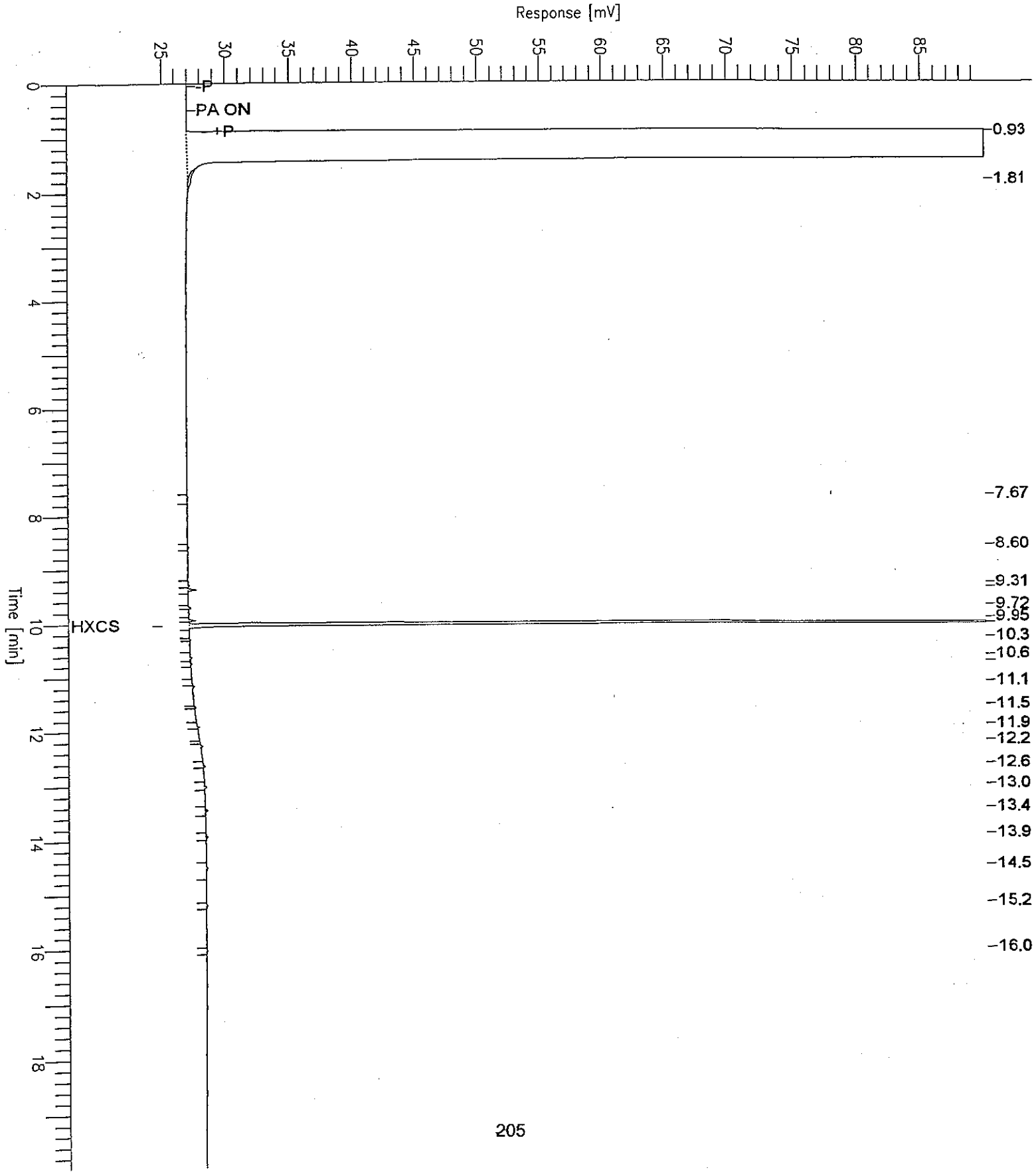
Report stored in ASCII file: G:\GC17\CHA\076A035.TX0

Chromatogram

Sample Name : ical,04ws0535,hex25
FileName : G:\GC17\CHA\076a035.raw
Method : 20MINA
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 25mg/L
Date : 3/18/04 12:22 PM
Time of Injection: 3/17/04 02:48 PM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 3/18/04 12:22 PM
Sample Name : ical,04ws0536,hex50
Data File : G:\GC17\CHA\076A036.RAW Date: 3/17/04 03:16 PM
Sequence File: G:\GC17\076.SEQ Cycle: 36 Channel : A
Instrument : GC17 Rack/Vial: 0/36 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1614441	44.25	44.2519			10.053	88.5038

CURTIS & TOMPKINS,LTD. BERKELEY

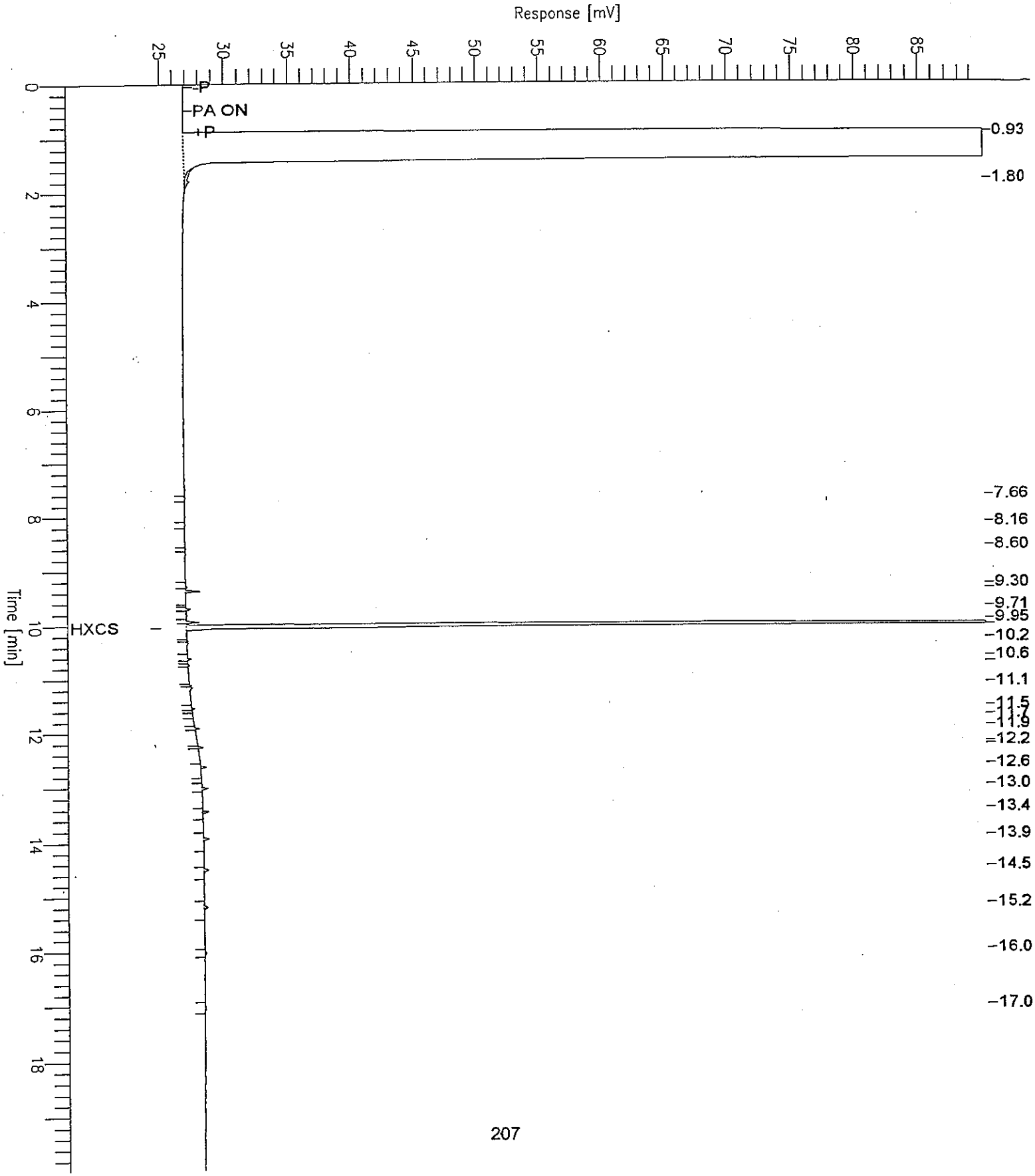
Analyzed By: JS 3.18.04. Reviewed By: _____

Report stored in ASCII file: G:\GC17\CHA\076A036.TX0

Chromatogram

Sample Name : ical,04ws0536,hex50
FileName : G:\GC17\CHA\076a036.raw
Method : 20MINA
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L
Date : 3/18/04 12:22 PM
Time of Injection: 3/17/04 03:16 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 3/18/04 12:45 PM
Sample Name : ical,04ws0537,hex75
Data File : G:\GC17\CHA\076A037.RAW Date: 3/17/04 03:45 PM
Sequence File: G:\GC17\076.SEQ Cycle: 37 Channel : A
Instrument : GC17 Rack/Vial: 0/37 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	2301989	70.23	70.2266			10.062	140.4532

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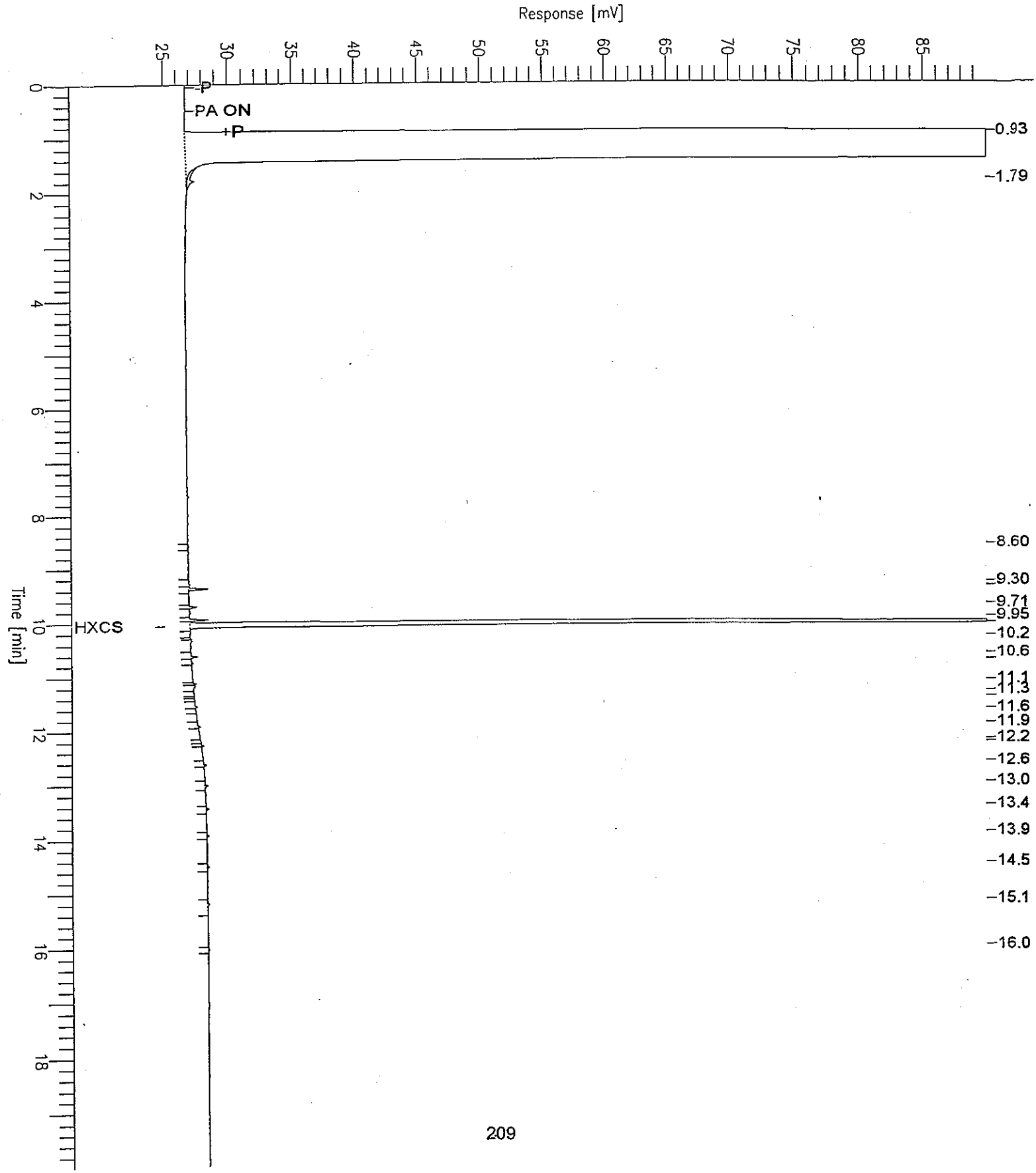
Analyzed By: JG 3.18.04 Reviewed By: _____

Report stored in ASCII file: G:\GC17\CHA\076A037.TXO

Chromatogram

Sample Name : ical,04ws0537,hex75
FileName : G:\GC17\CHA\076a037.raw
Method : 20MINA
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 75mg/L
Date : 3/18/04 12:45 PM
Time of Injection: 3/17/04 03:45 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: [illegible]
Calnum: 174303334001 Name: Diesel Type: (normal) Date: 28-JUL-2004 16:02 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	210a002	174303334002	dsl 10 mg/L	28-JUL-2004 16:02	04WS1223
2	210a003	174303334003	dsl100	28-JUL-2004 16:30	04WS1222
3	210a004	174303334004	dsl250	28-JUL-2004 16:59	04WS1221
4	210a005	174303334005	dsl500	28-JUL-2004 17:27	04WS1220
5	210a006	174303334006	dsl1000	28-JUL-2004 17:56	04WS1219
6	210a007	174303334007	dsl1500	28-JUL-2004 18:24	04WS1218
7	210a015	174303334015	dsl5000	29-JUL-2004 09:35	04WS1217

mcw 7/29/04

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	20856	30931	31347	29739	33117	30379	29880	AVRG	R		3.394E-5		mg/L	29464	13	0.995	20	
Diesel C10-C24	21646	30931	31816	30175	33364	30649	30121	AVRG	R		3.354E-5		mg/L	29814	13	0.995	20	
Diesel C10-C28	21723	31035	31835	30201	33494	30709	30209	AVRG	R		3.346E-5		mg/L	29887	13	0.995	20	
Diesel C10-C20	19558	29284	30046	29007	32210	29445	29054	AVRG	R		3.525E-5		mg/L	28372	14	0.995	20	
Diesel C12-C22	16308	26436	26065	24730	27596	25215	25489	AVRG	R		4.074E-5		mg/L	24549	15	0.995	20	
Diesel C12-C24	17098	26436	26534	25167	27843	25485	25731	AVRG	R		4.016E-5		mg/L	24899	14	0.995	20	
Diesel C12-C32	17536	26567	26570	25209	27991	25560	25833	AVRG	R		3.994E-5		mg/L	25038	14	0.995	20	

mmp 7/29/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/29/04 09:09 AM
Sample Name : ical,04ws1223,dsl
Data File : G:\GC17\CHA\210A002.RAW Date: 7/28/04 04:02 PM
Sequence File: G:\GC17\210.SEQ Cycle: 2 Channel : A
Instrument : GC17 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	120756	6.51	6.5107	1.00	1.00	6.5107
JETA:10-16	120756	6.51	6.5064	1.00	1.00	6.5064
JP8:10-16	120756	6.32	6.3171	1.00	1.00	6.3171
KER:10-16	120756	1.21e-08	1.2076e-08	1.00	1.00	1.2076e-08
DSL:10-20	195583	7.63	7.6329	1.00	1.00	7.6329
DSL:10-22	208563	7.92	7.9230	1.00	1.00	7.9230
DSL:10-24	216458	8.17	8.1655	1.00	1.00	8.1655
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	163080	1.63e-08	1.6308e-08	1.00	1.00	1.6308e-08
DSL:12-22	163080	7.44	7.4364	1.00	1.00	7.4364
DSL:10-28	217227	8.18	8.1823	1.00	1.00	8.1823
DSL:12-24	170975	7.73	7.7312	1.00	1.00	7.7312
DSL:12-32	175358	7.91	7.9074	1.00	1.00	7.9074
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	209458	2.09e-08	2.0946e-08	1.00	1.00	2.0946e-08
HYFL:12-40	209458	6.63	6.6312	1.00	1.00	6.6312
BUNKC:12-40	209458	18.13	18.1265	1.00	1.00	18.1265
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	12278	0.52	0.5244	1.00	1.00	0.5244
MO:20-36	38522	1.34	1.3432	1.00	1.00	1.3432
MO:22-36	25542	0.97	0.9732	1.00	1.00	0.9732
MO:24-36	17647	0.82	0.8178	1.00	1.00	0.8178
BUNKC:12-50	230365	18.12	18.1241	1.00	1.00	18.1241
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: mmp 7/29/04 Reviewed By: [illegible] 7/29/04

Report stored in ASCII file: G:\GC17\CHA\210A002P.TXO

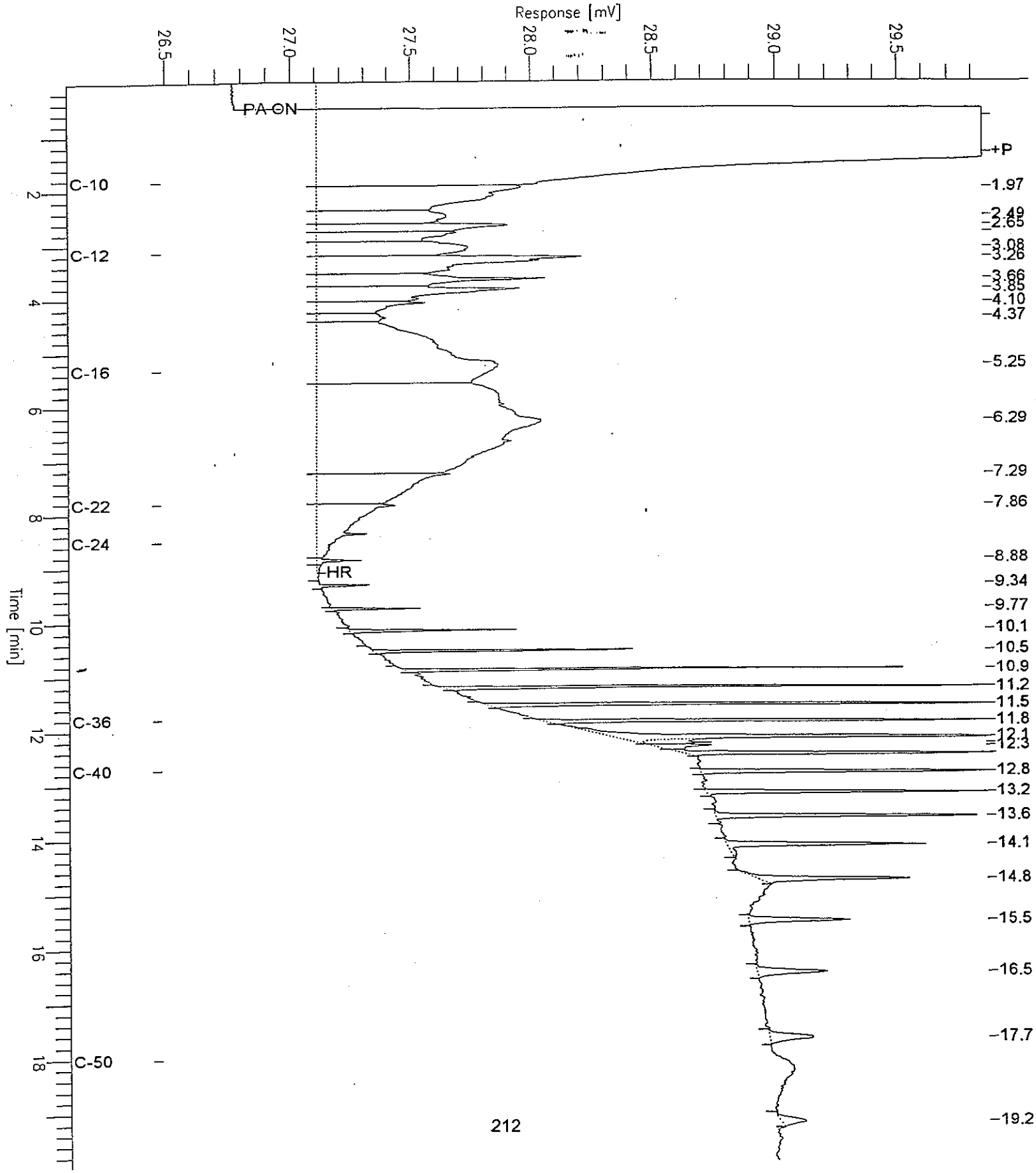
Chromatogram

Sample Name : ical,04ws1223,dsl
FileName : G:\GC17\CHA\210A002.RAW
Method : ATEH203.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 26 mV

Sample #: 10mg/L
Date : 7/29/04 09:09 AM
Time of Injection: 7/28/04 04:02 PM
Low Point : 26.48 mV
Plot Scale: 3.4 mV

High Point : 29.84 mV



Software Version: 4.1<2F12>
Date: 7/29/04 09:09 AM
Sample Name : ical,04ws1222,dsl
Data File : G:\GC17\CHA\210A003.RAW Date: 7/28/04 04:30 PM
Sequence File: G:\GC17\210.SEQ Cycle: 3 Channel : A
Instrument : GC17 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	1904135	102.66	102.6638	1.00	1.00	102.6638
JETA:10-16	1904135	102.60	102.5952	1.00	1.00	102.5952
JP8:10-16	1904135	99.61	99.6110	1.00	1.00	99.6110
KER:10-16	1904135	1.90e-07	1.9041e-07	1.00	1.00	1.9041e-07
DSL:10-20	2928421	114.29	114.2859	1.00	1.00	114.2859
DSL:10-22	3093071	117.50	117.5006	1.00	1.00	117.5006
DSL:10-24	3093071	116.68	116.6808	1.00	1.00	116.6808
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	2643638	2.64e-07	2.6436e-07	1.00	1.00	2.6436e-07
DSL:12-22	2643638	120.55	120.5485	1.00	1.00	120.5485
DSL:10-28	3103537	116.90	116.9016	1.00	1.00	116.9016
DSL:12-24	2643638	119.54	119.5402	1.00	1.00	119.5402
DSL:12-32	2656656	119.80	119.7967	1.00	1.00	119.7967
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	2677481	2.68e-07	2.6775e-07	1.00	1.00	2.6775e-07
HYFL:12-40	2677481	84.77	84.7665	1.00	1.00	84.7665
BUNKC:12-40	2677481	231.71	231.7090	1.00	1.00	231.7090
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	13017	0.56	0.5560	1.00	1.00	0.5560
MO:20-36	185336	6.46	6.4621	1.00	1.00	6.4621
MO:22-36	20686	0.79	0.7882	1.00	1.00	0.7882
MO:24-36	20686	0.96	0.9586	1.00	1.00	0.9586
BUNKC:12-50	2694544	211.99	211.9943	1.00	1.00	211.9943
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: [illegible] Reviewed By: [illegible]

Report stored in ASCII file: G:\GC17\CHA\210A003P.TXO

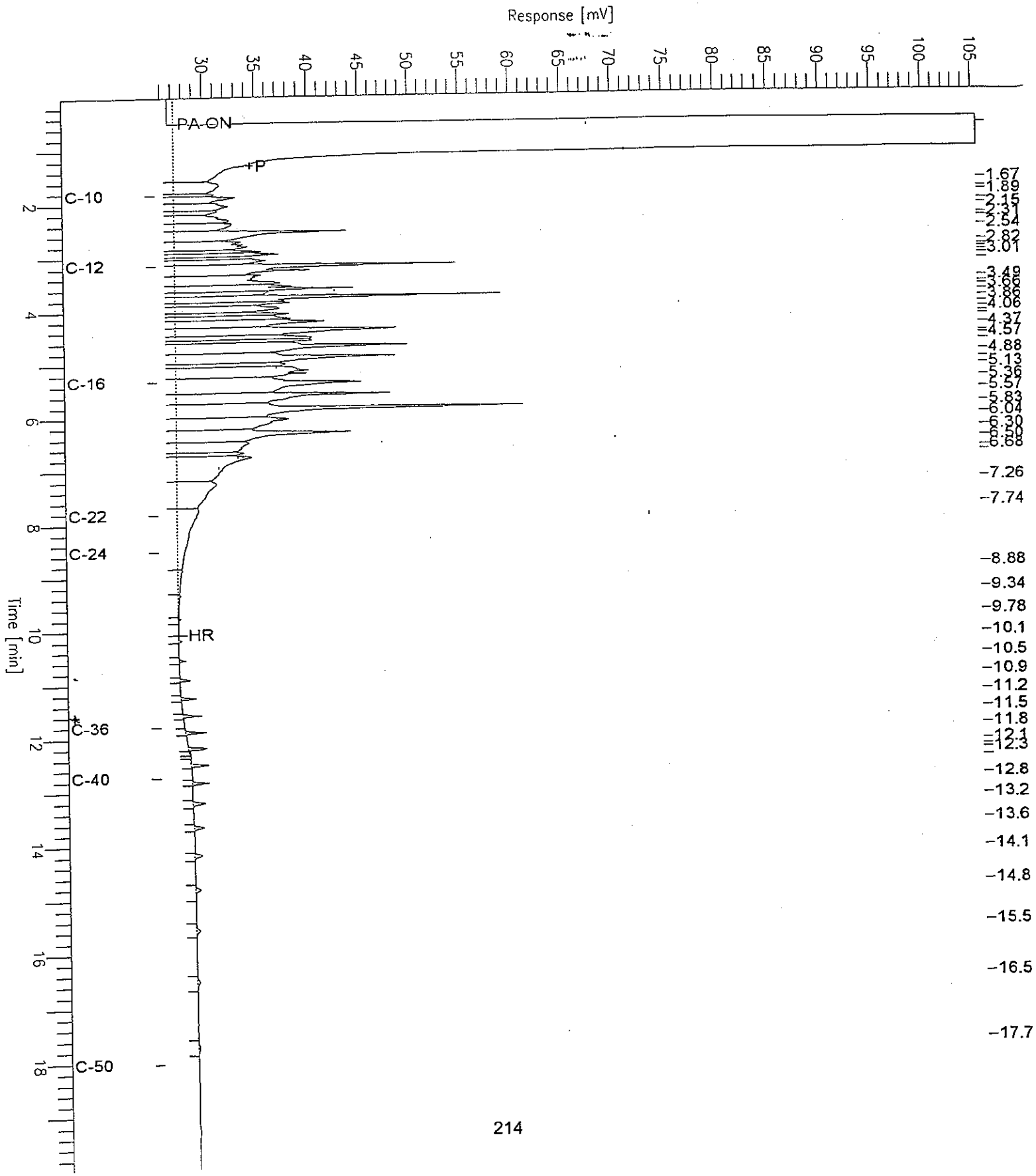
Chromatogram

Sample Name : ical,04ws1222,dsl
FileName : G:\GC17\CHA\210A003.RAW
Method : ATEH203.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 100mg/L
Date : 7/29/04 09:09 AM
Time of Injection: 7/28/04 04:30 PM
Low Point : 25.47 mV
Plot Scale: 80.0 mV

High Point : 105.47 mV



Software Version: 4.1<2F12>
Date: 7/29/04 09:10 AM
Sample Name : ical,04ws1221,dsl
Data File : G:\GC17\CHA\210A004.RAW Date: 7/28/04 04:59 PM
Sequence File: G:\GC17\210.SEQ Cycle: 4 Channel : A
Instrument : GC17 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	5390641	290.64	290.6432	1.00	1.00	290.6432
JETA:10-16	5390641	290.45	290.4489	1.00	1.00	290.4489
JP8:10-16	5390641	282.00	282.0004	1.00	1.00	282.0004
KER:10-16	5390641	5.39e-07	5.3906e-07	1.00	1.00	5.3906e-07
DSL:10-20	7511578	293.15	293.1503	1.00	1.00	293.1503
DSL:10-22	7836706	297.70	297.7034	1.00	1.00	297.7034
DSL:10-24	7954015	300.05	300.0515	1.00	1.00	300.0515
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	6516131	6.52e-07	6.5161e-07	1.00	1.00	6.5161e-07
DSL:12-22	6516131	297.13	297.1320	1.00	1.00	297.1320
DSL:10-28	7958757	299.78	299.7843	1.00	1.00	299.7843
DSL:12-24	6633440	299.95	299.9514	1.00	1.00	299.9514
DSL:12-32	6642609	299.54	299.5355	1.00	1.00	299.5355
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	6653481	6.65e-07	6.6535e-07	1.00	1.00	6.6535e-07
HYFL:12-40	6653481	210.64	210.6429	1.00	1.00	210.6429
BUNKC:12-40	6653481	575.79	575.7918	1.00	1.00	575.7918
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	126478	5.40	5.4021	1.00	1.00	5.4021
MO:20-36	455256	15.87	15.8735	1.00	1.00	15.8735
MO:22-36	130128	4.96	4.9583	1.00	1.00	4.9583
MO:24-36	12819	0.59	0.5940	1.00	1.00	0.5940
BUNKC:12-50	6663233	524.23	524.2325	1.00	1.00	524.2325
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

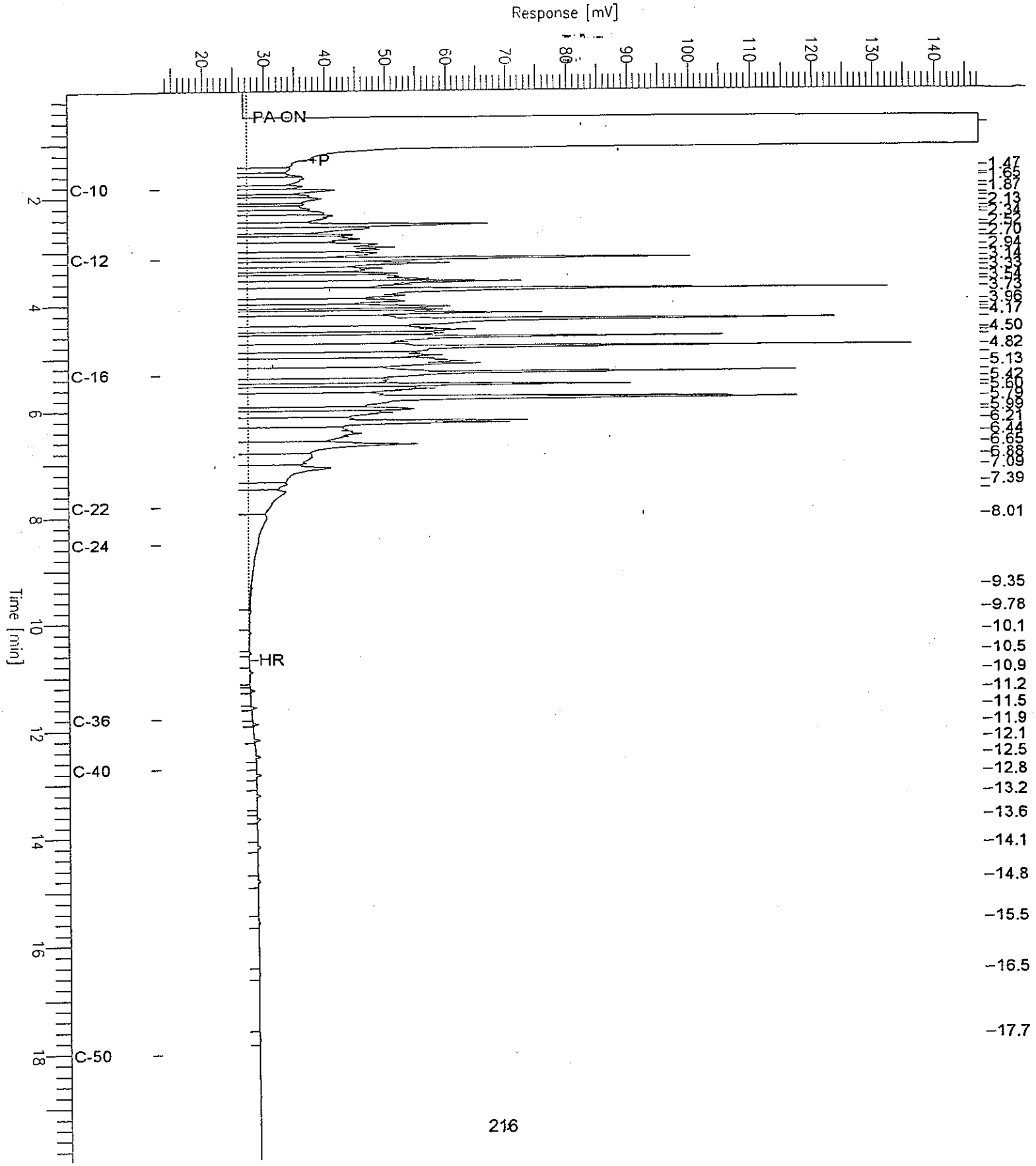
Analyzed By: [illegible] Reviewed By: [illegible]

Report stored in ASCII file: G:\GC17\CHA\210A004P.TX0

Chromatogram

Sample Name : ical,04ws1221,dsl
FileName : G:\GC17\CHA\210A004.RAW
Method : ATEH203.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 13 mV

Sample #: 250mg/L
Date : 7/29/04 09:10 AM
Time of Injection: 7/28/04 04:59 PM
Low Point : 13.15 mV High Point : 147.18 mV
Plot Scale: 134.0 mV



Software Version: 4.1<2F12>
Date: 7/29/04 09:10 AM
Sample Name : ical,04ws1220,dsl
Data File : G:\GC17\CHA\210A005.RAW Date: 7/28/04 05:27 PM
Sequence File: G:\GC17\210.SEQ Cycle: 5 Channel : A
Instrument : GC17 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	10397686	560.60	560.6043	1.00	1.00	560.6043
JETA:10-16	10397686	560.23	560.2297	1.00	1.00	560.2297
JP8:10-16	10397686	543.93	543.9338	1.00	1.00	543.9338
KER:10-16	10397686	1.04e-06	1.0398e-06	1.00	1.00	1.0398e-06
DSL:10-20	14503616	566.02	566.0248	1.00	1.00	566.0248
DSL:10-22	14869270	564.86	564.8588	1.00	1.00	564.8588
DSL:10-24	15087593	569.15	569.1533	1.00	1.00	569.1533
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	12365013	1.24e-06	1.2365e-06	1.00	1.00	1.2365e-06
DSL:12-22	12365013	563.84	563.8378	1.00	1.00	563.8378
DSL:10-28	15100361	568.79	568.7887	1.00	1.00	568.7887
DSL:12-24	12583336	568.99	568.9942	1.00	1.00	568.9942
DSL:12-32	12604459	568.37	568.3736	1.00	1.00	568.3736
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	12611509	1.26e-06	1.2612e-06	1.00	1.00	1.2612e-06
HYFL:12-40	12611509	399.27	399.2685	1.00	1.00	399.2685
BUNKC:12-40	12611509	1091.40	1091.3992	1.00	1.00	1091.3992
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	239446	10.23	10.2272	1.00	1.00	10.2272
MO:20-36	608189	21.21	21.2058	1.00	1.00	21.2058
MO:22-36	242535	9.24	9.2414	1.00	1.00	9.2414
MO:24-36	24212	1.12	1.1220	1.00	1.00	1.1220
BUNKC:12-50	12617092	992.65	992.6548	1.00	1.00	992.6548
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: mmp 7/29/04 Reviewed By: [illegible] 7/29/04

Report stored in ASCII file: G:\GC17\CHA\210A005P.TX0

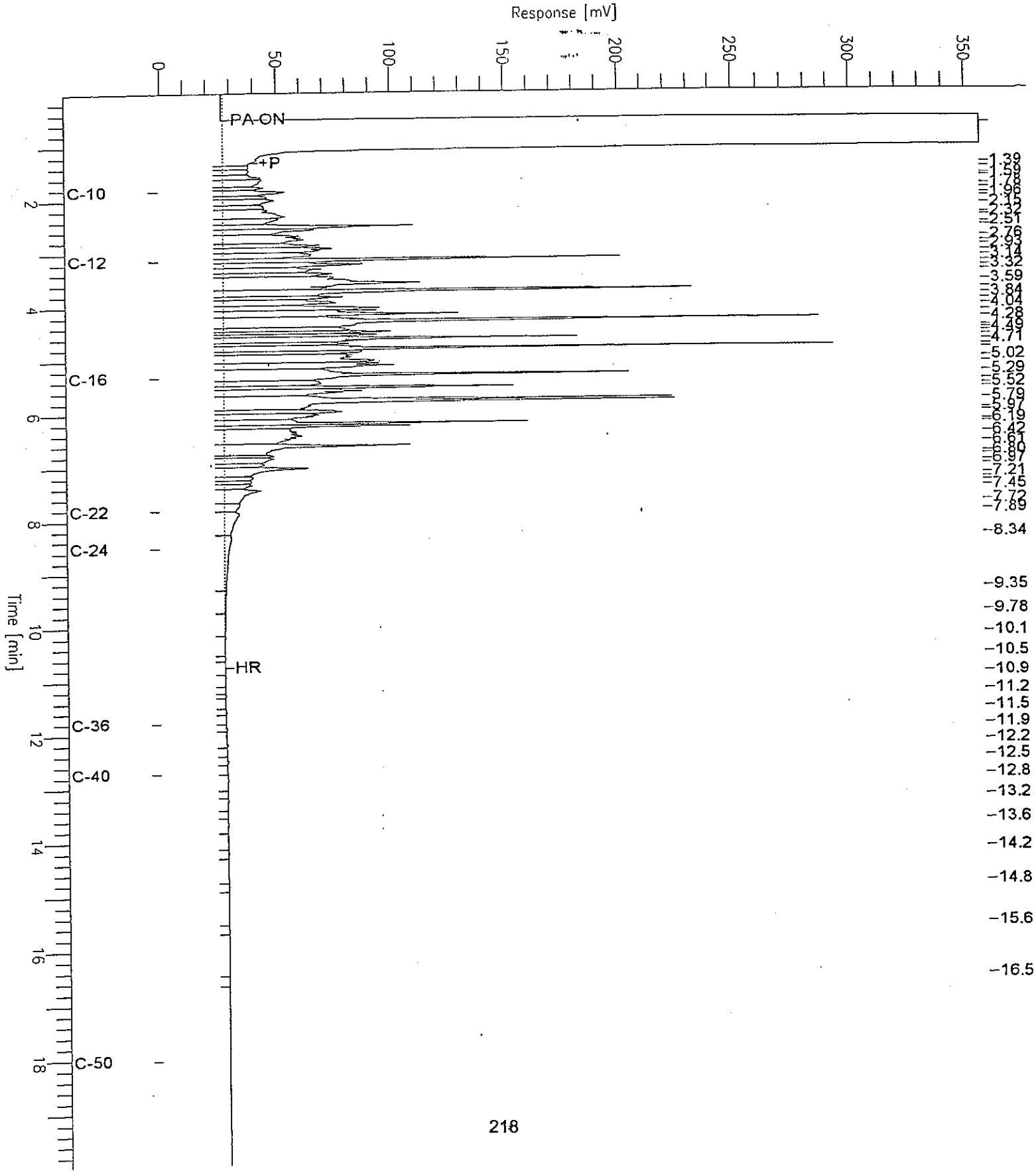
Chromatogram

Sample Name : ical,04ws1220,dsl
FileName : G:\GC17\CHA\210A005.RAW
Method : ATEH203.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: -1 mV

Sample #: 500mg/L
Date : 7/29/04 09:10 AM
Time of Injection: 7/28/04 05:27 PM
Low Point : -0.74 mV
Plot Scale: 357.4 mV

High Point : 356.62 mV



Software Version: 4.1<2F12>
Date: 7/29/04 09:11 AM
Sample Name : ical,04ws1219,dsl
Data File : G:\GC17\CHA\210A006.RAW Date: 7/28/04 05:56 PM
Sequence File: G:\GC17\210.SEQ Cycle: 6 Channel : A
Instrument : GC17 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	23109198	1245.96	1245.9615	1.00	1.00	1245.9615
JETA:10-16	23109198	1245.13	1245.1289	1.00	1.00	1245.1289
JP8:10-16	23109198	1208.91	1208.9107	1.00	1.00	1208.9107
KER:10-16	23109198	2.31e-06	2.3109e-06	1.00	1.00	2.3109e-06
DSL:10-20	32210351	1257.06	1257.0560	1.00	1.00	1257.0560
DSL:10-22	33116823	1258.05	1258.0529	1.00	1.00	1258.0529
DSL:10-24	33363559	1258.58	1258.5826	1.00	1.00	1258.5826
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	27595917	2.76e-06	2.7596e-06	1.00	1.00	2.7596e-06
DSL:12-22	27595917	1258.36	1258.3587	1.00	1.00	1258.3587
DSL:10-28	33494227	1261.63	1261.6346	1.00	1.00	1261.6346
DSL:12-24	27842654	1258.99	1258.9911	1.00	1.00	1258.9911
DSL:12-32	27990813	1262.19	1262.1914	1.00	1.00	1262.1914
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	27995324	2.80e-06	2.7995e-06	1.00	1.00	2.7995e-06
HYFL:12-40	27995324	886.31	886.3055	1.00	1.00	886.3055
BUNKC:12-40	27995324	2422.71	2422.7135	1.00	1.00	2422.7135
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	394896	16.87	16.8668	1.00	1.00	16.8668
MO:20-36	1303427	45.45	45.4468	1.00	1.00	45.4468
MO:22-36	396955	15.13	15.1253	1.00	1.00	15.1253
MO:24-36	150218	6.96	6.9613	1.00	1.00	6.9613
BUNKC:12-50	27998426	2202.79	2202.7875	1.00	1.00	2202.7875
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

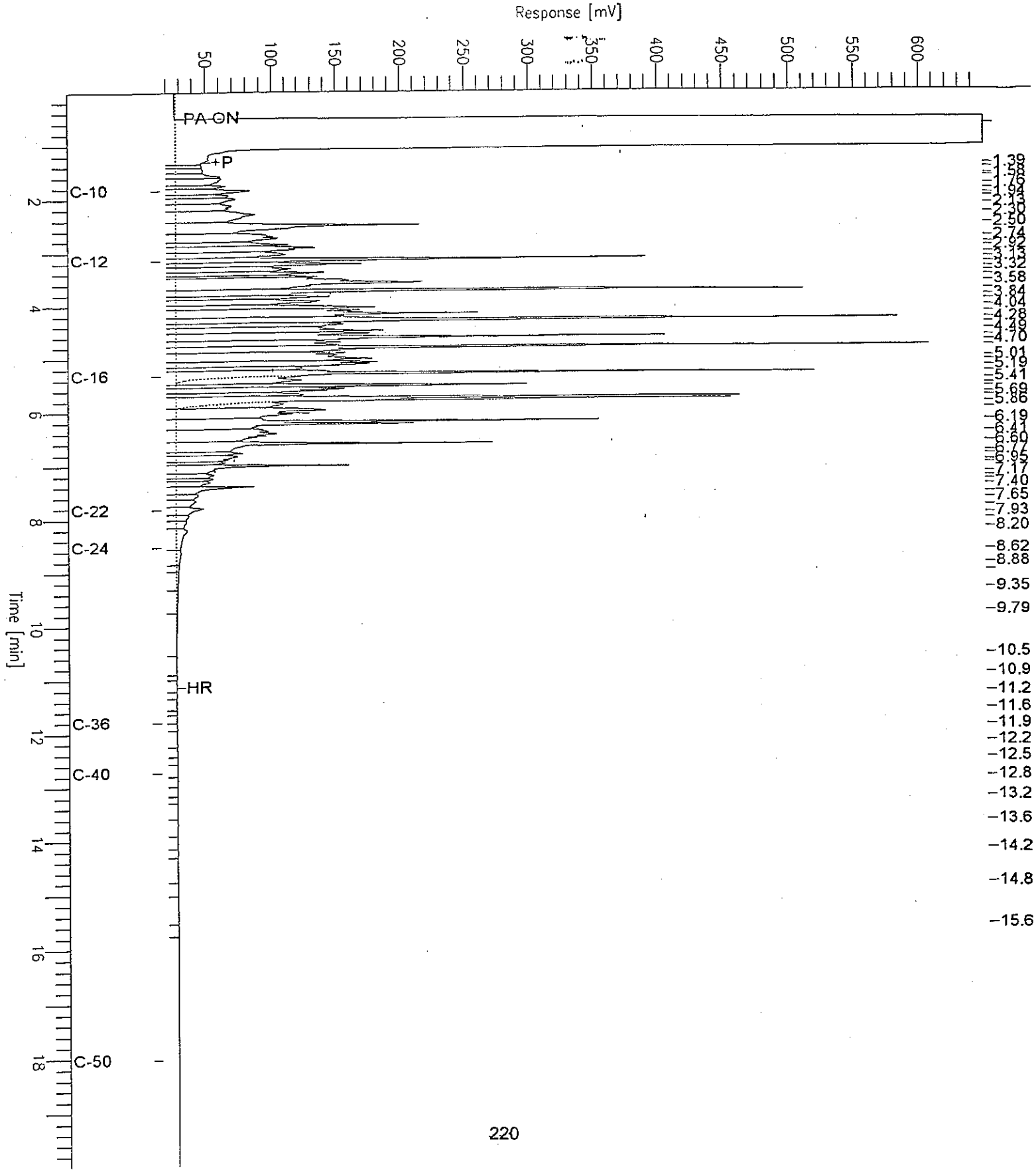
Analyzed By: mm 7/29/04 Reviewed By: [illegible]

Report stored in ASCII file: G:\GC17\CHA\210A006P.TXO

Chromatogram

Sample Name : ical,04ws1219,dsl
FileName : G:\GC17\CHA\210A006.RAW
Method : ATEH203.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #: 1000mg/L
Date : 7/29/04 09:11 AM
Time of Injection: 7/28/04 05:56 PM
Low Point : 16.03 mV High Point : 649.81 mV
Plot Scale: 633.8 mV



Software Version: 4.1<2F12>
Date: 7/29/04 09:07 AM
Sample Name : ical,04ws1218,dsl
Data File : G:\GC17\CHA\210A007.RAW Date: 7/28/04 06:24 PM
Sequence File: G:\GC17\210.SEQ Cycle: 7 Channel : A
Instrument : GC17 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	53333580	2875.55	2875.5472	1.00	1.00	2875.5472
JETA:10-16	53333580	2873.63	2873.6255	1.00	1.00	2873.6255
JP8:10-16	53333580	2790.04	2790.0377	1.00	1.00	2790.0377
KER:10-16	53333580	5.33e-06	5.3334e-06	1.00	1.00	5.3334e-06
DSL:10-20	73611319	2872.79	2872.7892	1.00	1.00	2872.7892
DSL:10-22	75946398	2885.08	2885.0770	1.00	1.00	2885.0770
DSL:10-24	76621579	2890.42	2890.4166	1.00	1.00	2890.4166
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	63038350	6.30e-06	6.3038e-06	1.00	1.00	6.3038e-06
DSL:12-22	63038350	2874.51	2874.5143	1.00	1.00	2874.5143
DSL:10-28	76773358	2891.84	2891.8394	1.00	1.00	2891.8394
DSL:12-24	63713531	2881.00	2881.0030	1.00	1.00	2881.0030
DSL:12-32	63900140	2881.45	2881.4527	1.00	1.00	2881.4527
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	63905873	6.39e-06	6.3906e-06	1.00	1.00	6.3906e-06
HYFL:12-40	63905873	2023.20	2023.1996	1.00	1.00	2023.1996
BUNKC:12-40	63905873	5530.41	5530.4102	1.00	1.00	5530.4102
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	861790	36.81	36.8087	1.00	1.00	36.8087
MO:20-36	3199617	111.56	111.5615	1.00	1.00	111.5615
MO:22-36	864539	32.94	32.9419	1.00	1.00	32.9419
MO:24-36	189357	8.78	8.7750	1.00	1.00	8.7750
BUNKC:12-50	63910667	5028.20	5028.1975	1.00	1.00	5028.1975
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

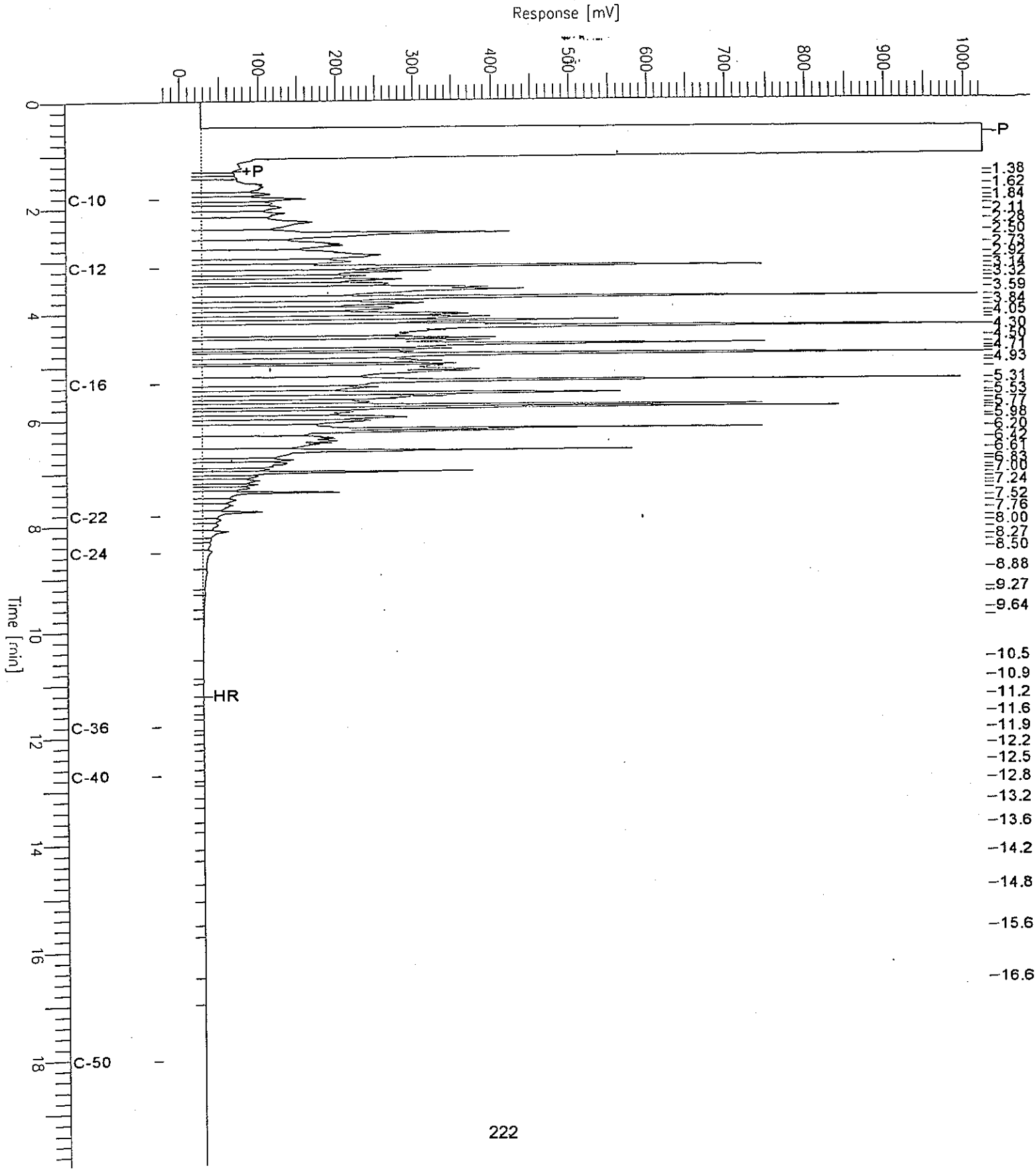
Analyzed By: MMC 7/29/04 Reviewed By: [illegible]

Report stored in ASCII file: G:\GC17\CHA\210A007P.TXO

Chromatogram

Sample Name : ical,04wsl218,dsl
FileName : G:\GC17\CHA\210A007.RAW
Method : ATEH203.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -26 mV

Sample #: 2500mg/L
Date : 7/29/04 09:07 AM
Time of Injection: 7/28/04 06:24 PM
Low Point : -25.91 mV High Point : 1024.00 mV
Plot Scale: 1049.9 mV



Software Version: 4.1<2F12>
Date: 7/29/04 10:23 AM
Sample Name : ical,04ws1217,dsl5000
Data File : G:\GC17\CHA\210A015.RAW Date: 7/29/04 09:35 AM
Sequence File: G:\GC17\210.SEQ Cycle: 15 Channel : A
Instrument : GC17 Rack/Vial: 0/15 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	98110807	5289.77	5289.7677	1.00	1.00	5289.7677
JETA:10-16	98110807	5286.23	5286.2326	1.00	1.00	5286.2326
JP8:10-16	98110807	5132.47	5132.4673	1.00	1.00	5132.4673
KER:10-16	98110807	9.81e-06	9.8111e-06	1.00	1.00	9.8111e-06
DSL:10-20	145267856	5669.29	5669.2902	1.00	1.00	5669.2902
DSL:10-22	149400983	5675.49	5675.4943	1.00	1.00	5675.4943
DSL:10-24	150606678	5681.38	5681.3765	1.00	1.00	5681.3765
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	127446911	1.27e-05	0.0000	1.00	1.00	0.0000
DSL:12-22	127446911	5811.51	5811.5095	1.00	1.00	5811.5095
DSL:10-28	151047148	5689.53	5689.5271	1.00	1.00	5689.5271
DSL:12-24	128652606	5817.42	5817.4228	1.00	1.00	5817.4228
DSL:12-32	129165239	5824.46	5824.4557	1.00	1.00	5824.4557
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	129190704	1.29e-05	0.0000	1.00	1.00	0.0000
HYFL:12-40	129190704	4090.06	4090.0558	1.00	1.00	4090.0558
BUNKC:12-40	129190704	11180.16	11180.1552	1.00	1.00	11180.1552
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1718328	73.39	73.3931	1.00	1.00	73.3931
MO:20-36	5864188	204.47	204.4675	1.00	1.00	204.4675
MO:22-36	1731060	65.96	65.9593	1.00	1.00	65.9593
MO:24-36	525365	24.35	24.3461	1.00	1.00	24.3461
BUNKC:12-50	129213108	10165.89	10165.8934	1.00	1.00	10165.8934
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

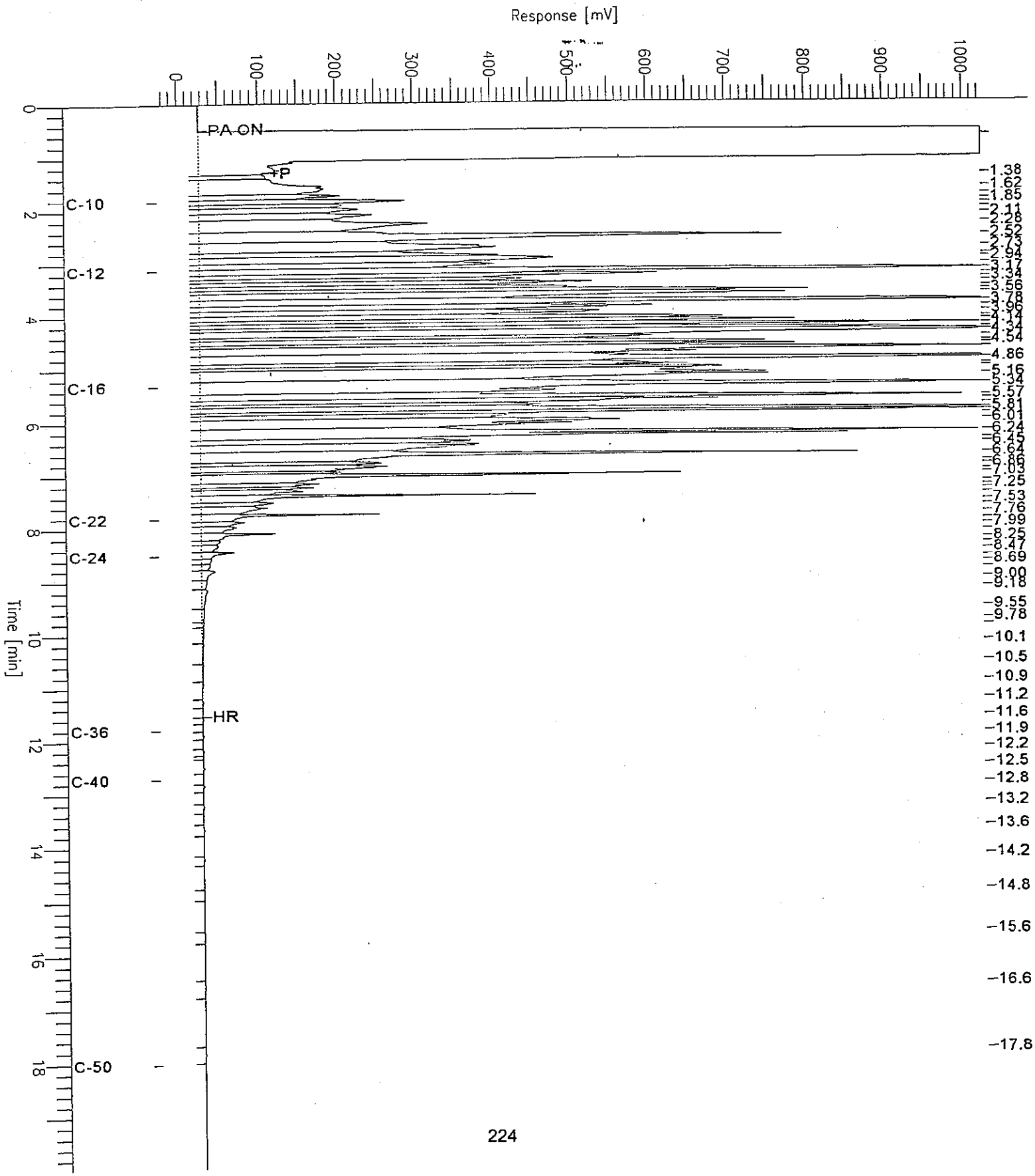
Analyzed By: MMP 7/29/04 Reviewed By: MCW 7/29/04

Report stored in ASCII file: G:\GC17\CHA\210A015P.TX0

Chromatogram

Sample Name : ical,04ws1217,ds15000
FileName : G:\GC17\CHA\210A015.RAW
Method : ATEH203.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -25 mV

Sample #: 5000mg/L
Date : 7/29/04 10:23 AM
Time of Injection: 7/29/04 09:35 AM
Low Point : -25.37 mV High Point : 1024.00 mV
Plot Scale: 1049.4 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC17A
Seqnum : 174303334017

Run Name : dsl
Filename : 210a017

Injected : 29-JUL-2004 11:17
Caltype :

Standards: 04WS0983

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Flags
Diesel C10-C22	174303334001	28-JUL-2004	500.0000	499.3815	mg/L	0	
Diesel C10-C24	174303334001	28-JUL-2004	500.0000	496.6489	mg/L	-1	
Diesel C10-C28	174303334001	28-JUL-2004	500.0000	499.9477	mg/L	0	
Diesel C10-C20	174303334001	28-JUL-2004	500.0000	503.2532	mg/L	1	
Diesel C12-C22	174303334001	28-JUL-2004	500.0000	499.1842	mg/L	0	
Diesel C12-C24	174303334001	28-JUL-2004	500.0000	495.9150	mg/L	-1	
Diesel C12-C32	174303334001	28-JUL-2004	500.0000	499.0012	mg/L	0	
Hexacosane	174110421004	17-MAR-2004	50.00000	50.20818	mg/L	0	(NOT USED)

DSL 10-24: 14807323 ÷ 29814 = 496.65

mmp 7/29/04

7/29/04

Software Version: 4.1<2F12>
Date: 7/29/04 12:05 PM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC17\CHA\210A017.RAW Date: 7/29/04 11:17 AM
Sequence File: G:\GC17\210.SEQ Cycle: 17 Channel : A
Instrument : GC17 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area (µV·s)	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	10137524	546.58	546.5774	1.00	1.00	546.5774
JETA:10-16	10137524	546.21	546.2121	1.00	1.00	546.2121
JP8:10-16	10137524	530.32	530.3240	1.00	1.00	530.3240
KER:10-16	10137524	1.01e-06	1.0138e-06	1.00	1.00	1.0138e-06
DSL:10-20	14278337	503.25	503.2532	1.00	1.00	503.2532
DSL:10-22	14713772	499.38	499.3814	1.00	1.00	499.3814
DSL:10-24	14807323	496.65	496.6488	1.00	1.00	496.6488
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	12254229	1.23e-06	1.2254e-06	1.00	1.00	1.2254e-06
DSL:12-22	12254229	499.18	499.1842	1.00	1.00	499.1842
DSL:10-28	16529175	553.06	553.0614	1.00	1.00	553.0614
DSL:12-24	12347780	495.92	495.9150	1.00	1.00	495.9150
DSL:12-32	14081358	562.40	562.4007	1.00	1.00	562.4007
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	14094462	1.41e-06	1.4094e-06	1.00	1.00	1.4094e-06
HYFL:12-40	14094462	446.22	446.2174	1.00	1.00	446.2174
BUNKC:12-40	14094462	1219.73	1219.7339	1.00	1.00	1219.7339
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1827129	78.04	78.0402	1.00	1.00	78.0402
MO:20-36	2267705	79.07	79.0684	1.00	1.00	79.0684
MO:22-36	1832270	69.82	69.8157	1.00	1.00	69.8157
MO:24-36	1738719	80.57	80.5743	1.00	1.00	80.5743
BUNKC:12-50	14109807	1110.09	1110.0948	1.00	1.00	1110.0948
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: mm 7/29/04 Reviewed By: mcw 7/29/04

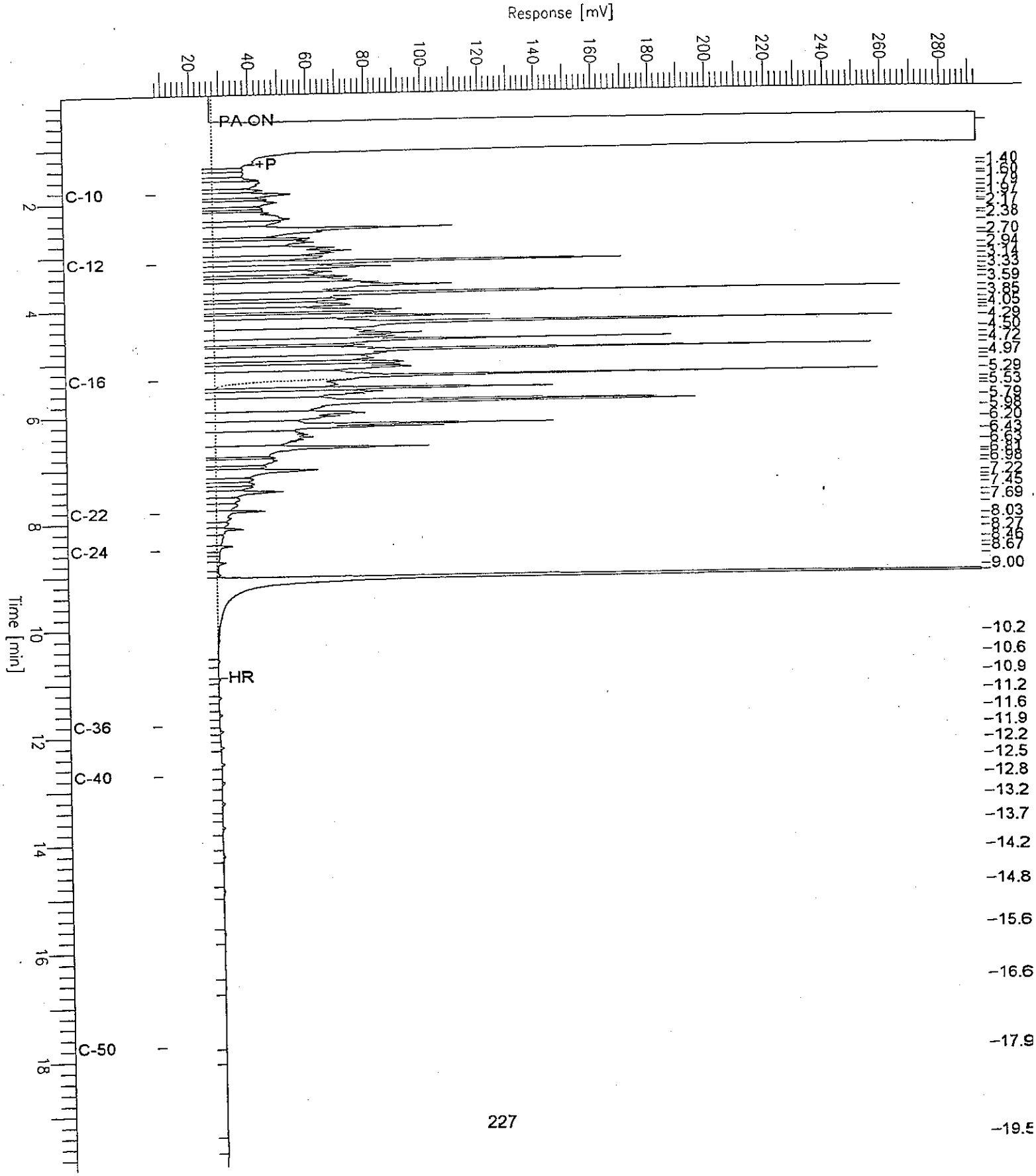
Report stored in ASCII file: G:\GC17\CHA\210A017P.TXO

Chromatogram

Sample Name : icv,04ws0983,dsl
FileName : G:\GC17\CHA\210A017.RAW
Method : ATEH211.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 8 mV

Sample #: 500mg/L
Date : 7/29/04 12:05 PM
Time of Injection: 7/29/04 11:17 AM
Low Point : 7.86 mV
High Point : 292.59 mV
Plot Scale: 284.7 mV



Software Version: 4.1<2F12>
Date: 7/29/04 11:37 AM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC17\CHA\210A017.RAW Date: 7/29/04 11:17 AM
Sequence File: G:\GC17\210.SEQ Cycle: 17 Channel : A
Instrument : GC17 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1587393	50.21	50.2081			9.093	100.4163

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Analyzed By: [illegible] Reviewed By: _____

Report stored in ASCII file: G:\GC17\CHA\210A017.TXO

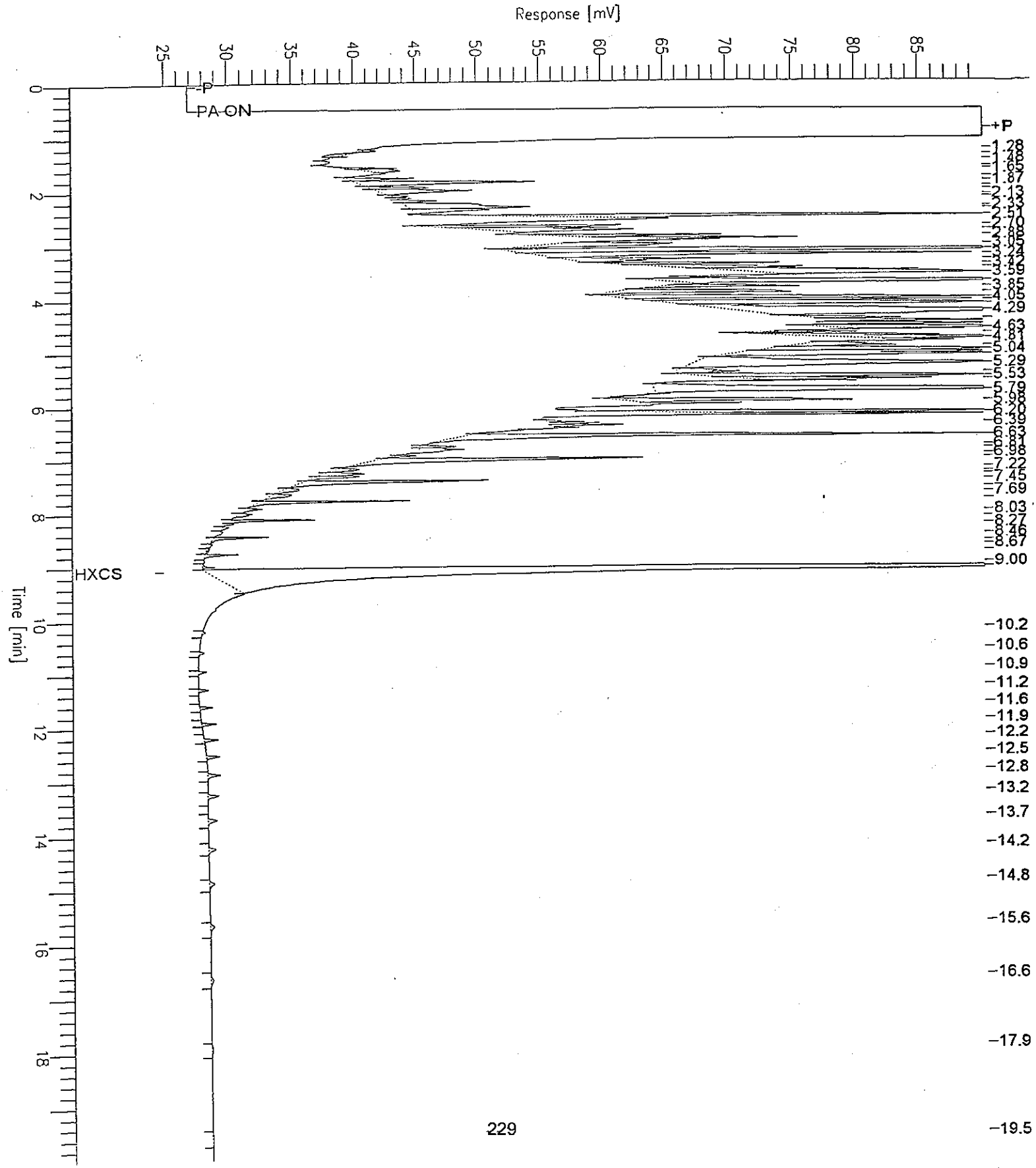
Chromatogram

Sample Name : icv,04ws0983,dsl
FileName : G:\GC17\CHA\210A017.raw
Method : 20mina
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 7/29/04 11:37 AM
Time of Injection: 7/29/04 11:17 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114321683016	10-AUG-2004 22:46	114306371001	30-JUL-2004	22204	22828	1000.0	1028.1	mg/L	3	15	
GC11A	A	114321683030	11-AUG-2004 05:30	114306371001	30-JUL-2004	22204	22059	250.00	248.38	mg/L	-1	15	
GC11A	A	114321683041	11-AUG-2004 10:47	114306371001	30-JUL-2004	22204	22340	500.00	503.07	mg/L	1	15	
GC11A	A	114321683056	11-AUG-2004 21:20	114306371001	30-JUL-2004	22204	22898	1000.0	1031.3	mg/L	3	15	
GC15B	B	164321871003	10-AUG-2004 13:27	164283116001	14-JUL-2004	17983	16911	500.00	470.22	mg/L	-6	15	
GC15B	B	164321871012	10-AUG-2004 22:11	164283116001	14-JUL-2004	17983	18166	1000.0	1010.2	mg/L	1	15	
GC15B	B	164323165011	11-AUG-2004 15:36	164283116001	14-JUL-2004	17983	16915	500.00	470.31	mg/L	-6	15	
GC15B	B	164323165022	12-AUG-2004 00:08	164283116001	14-JUL-2004	17983	17901	1000.0	995.47	mg/L	0	15	
GC17A	A	174321682003	10-AUG-2004 10:19	174303334001	28-JUL-2004	24899	23329	500.00	468.48	mg/L	-6	15	
GC17A	A	174321682016	10-AUG-2004 22:15	174303334001	28-JUL-2004	24899	24902	1000.0	1000.1	mg/L	0	15	

Software Version: 4.1<2F12>
Date: 8/11/04 08:14 AM Sv. 8/11/04
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC11\CHA\223A016.RAW Date: 8/10/04 10:46 PM
Sequence File: G:\GC11\223.SEQ Cycle: 16 Channel : A
Instrument : GC11 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	18406670	550.43	550.4264	1.00	1.00	550.4264
JP5:10-16	18406670	882.22	882.2241	1.00	1.00	882.2241
JETA:10-16	18406670	949.34	949.3357	1.00	1.00	949.3357
JP8:10-16	18406670	968.90	968.9000	1.00	1.00	968.9000
DSL:10-22	26648650	1018.84	1018.8449	1.00	1.00	1018.8449
GAIAFP:10-24	26846081	634.19	634.1939	1.00	1.00	634.1939
DSL:10-24	26846081	1020.04	1020.0417	1.00	1.00	1020.0417
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	22630448	1026.76	1026.7551	1.00	1.00	1026.7551
DSL:10-28	28381640	1076.30	1076.2960	1.00	1.00	1076.2960
DSL:12-24	22827878	1028.12	1028.1156	1.00	1.00	1028.1156
RRFPLH:16-24	8439411	1221.39	1221.3897	1.00	1.00	1221.3897
CRUDE:10-40	28385425	28.39	28.3854	1.00	1.00	28.3854
TRIMSOL:12-36	24366126	990.27	990.2723	1.00	1.00	990.2723
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	24367223	1228.74	1228.7391	1.00	1.00	1228.7391
BUNKC:12-40	24367223	3153.80	3153.8040	1.00	1.00	3153.8040
TRANSOIL:12-40	24367223	522.89	522.8876	1.00	1.00	522.8876
MO:22-32	1734114	87.66	87.6566	1.00	1.00	87.6566
MO:20-36	2475562	100.90	100.9029	1.00	1.00	100.9029
MO:22-36	1735678	79.23	79.2334	1.00	1.00	79.2334
HYFL:24-36	1538248	107.64	107.6355	1.00	1.00	107.6355
TPHHF:24-36	1538248	1.54e-07	1.5382e-07	1.00	1.00	1.5382e-07
MO:24-36	1538248	87.69	87.6889	1.00	1.00	87.6889
C-36	0	0.00	0.0000	1.00	1.00	0.0000

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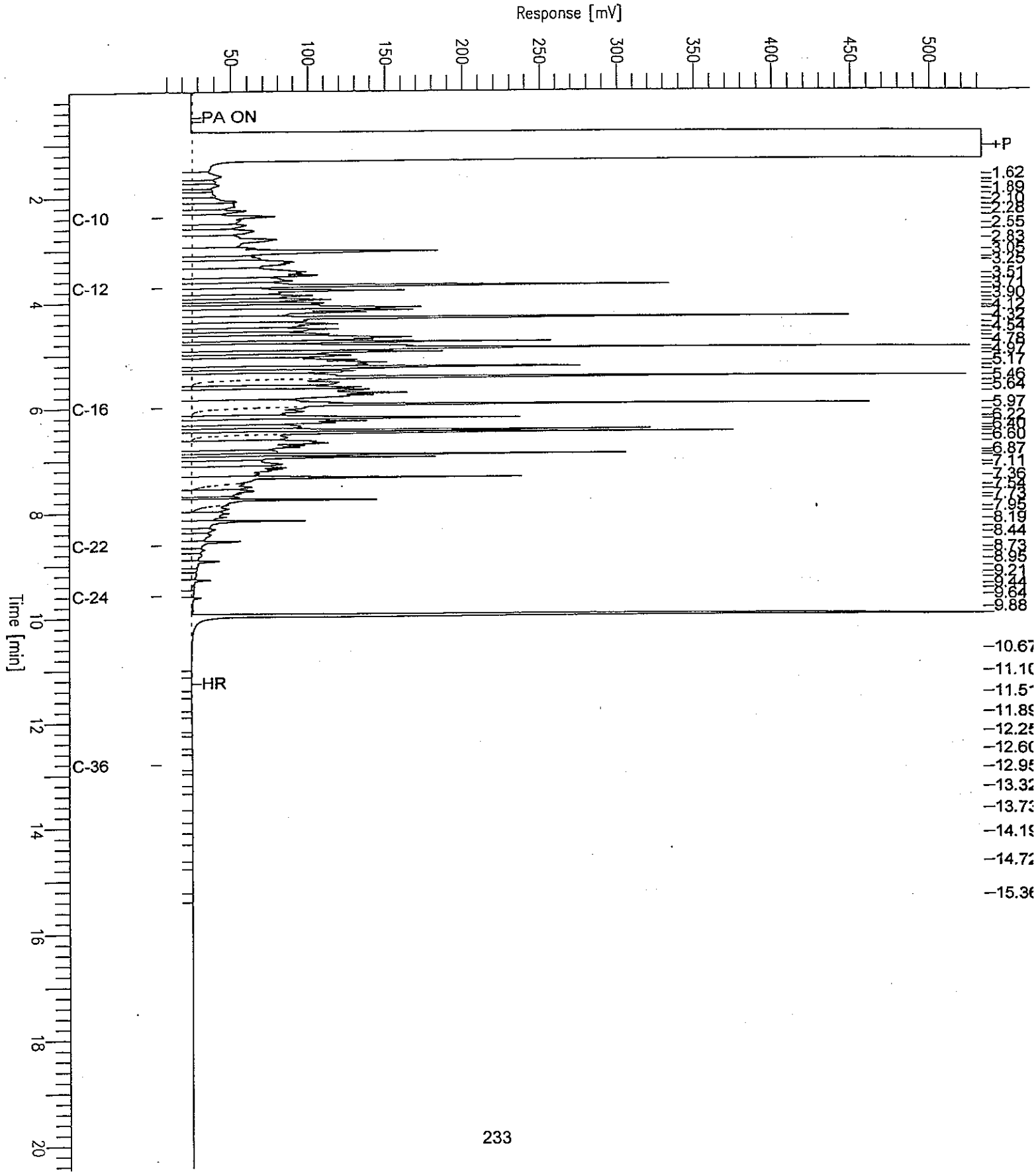
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A016P.TXO

Chromatogram

Sample Name : ccv,04ws1324,dsl GV. 8/11/04
FileName : G:\GC11\CHA\223A016.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 7 mV

Sample #: 1000mg/L Page 1 of 1
Date : 8/11/04 08:14 AM
Time of Injection: 8/10/04 10:46 PM
Low Point : 7.12 mV High Point : 532.62 mV
Plot Scale: 525.5 mV



Software Version: 4.1<2F12>
Date: 8/10/04 11:06 PM
Sample Name : ccv,04ws1324,dsl 8/11/04
Data File : G:\GC11\CHA\223A016.RAW Date: 8/10/04 10:46 PM
Sequence File: G:\GC11\223.SEQ Cycle: 16 Channel : A
Instrument : GC11 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1481289	53.13	53.1279			10.001	106.2558

CURTIS & TOMPKINS,LTD. BERKELEY

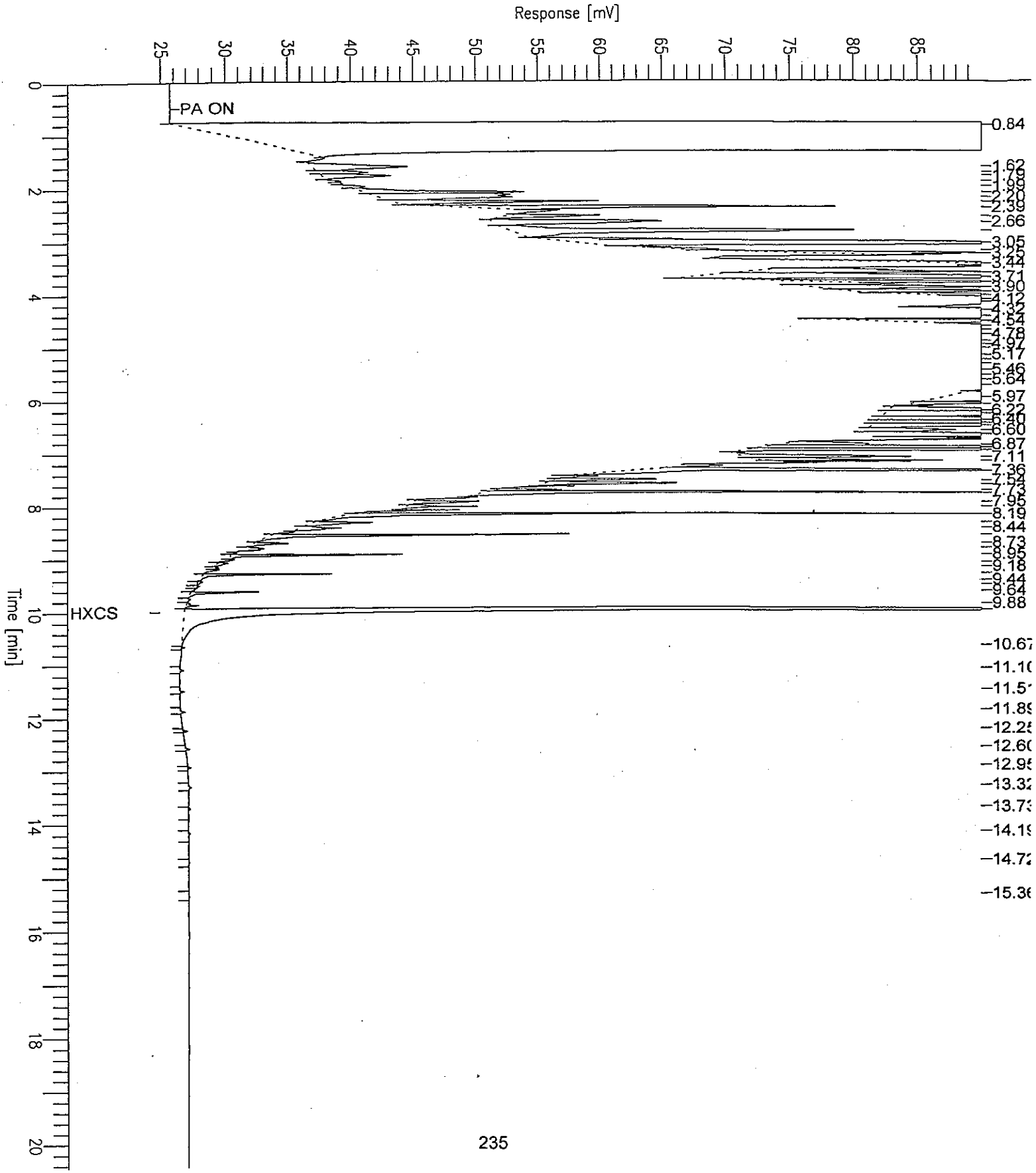
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A016.TX0

Chromatogram

Sample Name : ccv,04ws1324,dsl CV . 8/11/04
FileName : G:\GC11\CHA\223A016.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 1000mg/L Page 1 of 1
Date : 8/10/04 11:06 PM
Time of Injection: 8/10/04 10:46 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 08:21 AM
Sample Name : ccv,04ws1277,dsl
Data File : G:\GC11\CHA\223A030.RAW Date: 8/11/04 05:30 AM
Sequence File: G:\GC11\223.SEQ Cycle: 30 Channel : A
Instrument : GC11 Rack/Vial: 0/30 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	4447048	132.98	132.9829	1.00	1.00	132.9829
JP5:10-16	4447048	213.15	213.1452	1.00	1.00	213.1452
JETA:10-16	4447048	229.36	229.3593	1.00	1.00	229.3593
JP8:10-16	4447048	234.09	234.0861	1.00	1.00	234.0861
DSL:10-22	6474292	247.53	247.5285	1.00	1.00	247.5285
GAIAFP:10-24	6517775	153.97	153.9716	1.00	1.00	153.9716
DSL:10-24	6517775	247.65	247.6489	1.00	1.00	247.6489
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	5471375	248.24	248.2391	1.00	1.00	248.2391
DSL:10-28	7936276	300.96	300.9616	1.00	1.00	300.9616
DSL:12-24	5514858	248.38	248.3766	1.00	1.00	248.3766
RRFPLH:16-24	2070727	299.68	299.6850	1.00	1.00	299.6850
CRUDE:10-40	7943141	7.94	7.9431	1.00	1.00	7.9431
TRIMSOL:12-36	6938677	282.00	281.9972	1.00	1.00	281.9972
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	6940224	349.97	349.9670	1.00	1.00	349.9670
BUNKC:12-40	6940224	898.26	898.2601	1.00	1.00	898.2601
TRANSOIL:12-40	6940224	148.93	148.9278	1.00	1.00	148.9278
MO:22-32	1465312	74.07	74.0691	1.00	1.00	74.0691
MO:20-36	1639346	66.82	66.8191	1.00	1.00	66.8191
MO:22-36	1467302	66.98	66.9821	1.00	1.00	66.9821
HYFL:24-36	1423819	99.63	99.6285	1.00	1.00	99.6285
TPHHF:24-36	1423819	1.42e-07	1.4238e-07	1.00	1.00	1.4238e-07
MO:24-36	1423819	81.17	81.1658	1.00	1.00	81.1658
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

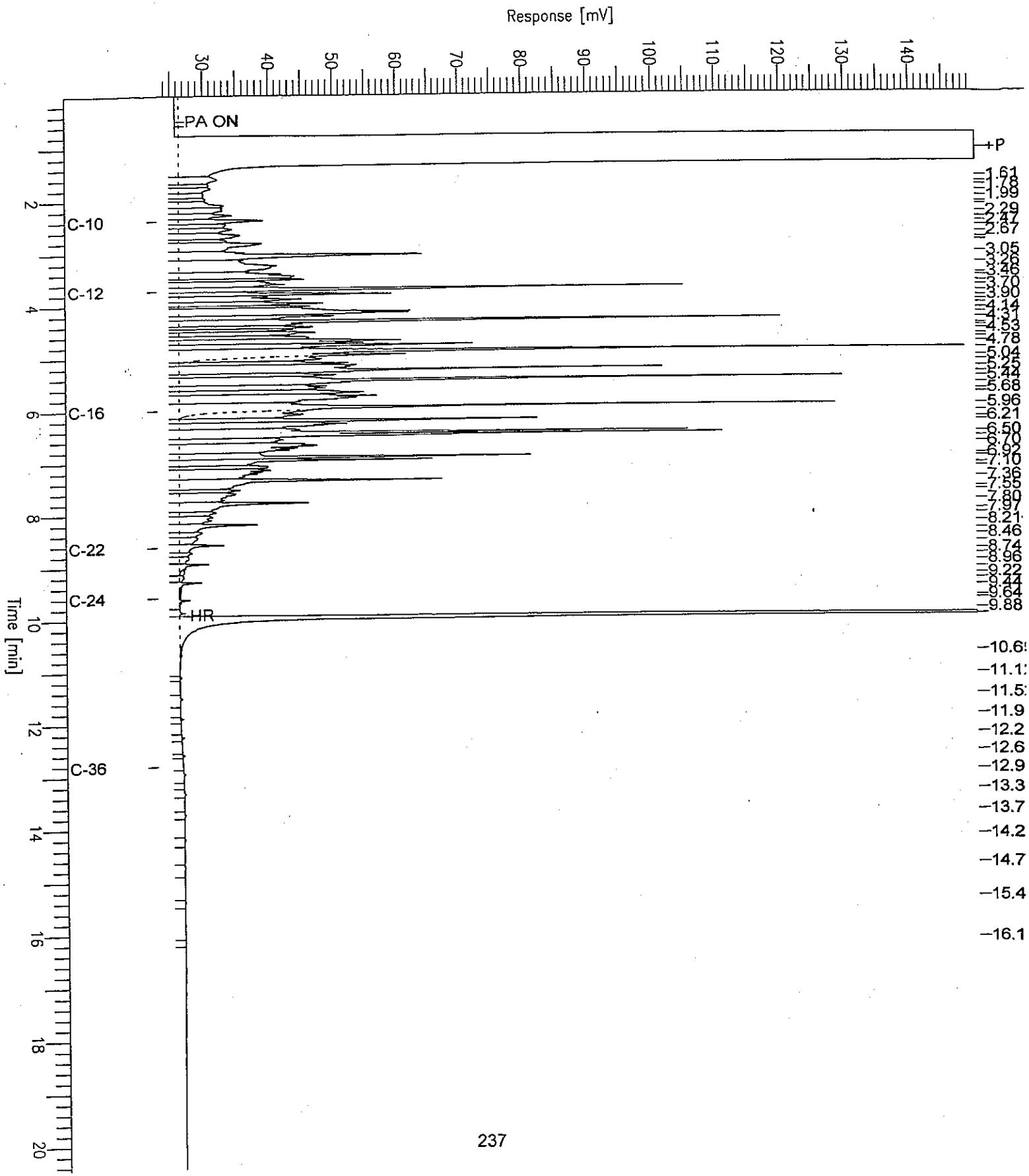
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A030P.TX0

Chromatogram

Sample Name : ccv,04ws1277,dsl
FileName : G:\GC11\CHA\223A030.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 250mg/L
Date : 8/11/04 08:21 AM
Time of Injection: 8/11/04 05:30 AM
Low Point : 23.02 mV High Point : 150.00 mV
Plot Scale: 127.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 05:51 AM
Sample Name : ccv,04ws1277,dsl
Data File : G:\GC11\CHA\223A030.RAW Date: 8/11/04 05:30 AM
Sequence File: G:\GC11\223.SEQ Cycle: 30 Channel : A
Instrument : GC11 Rack/Vial: 0/30 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1411121	50.61	50.6113			9.998	101.2225

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A030.TXO

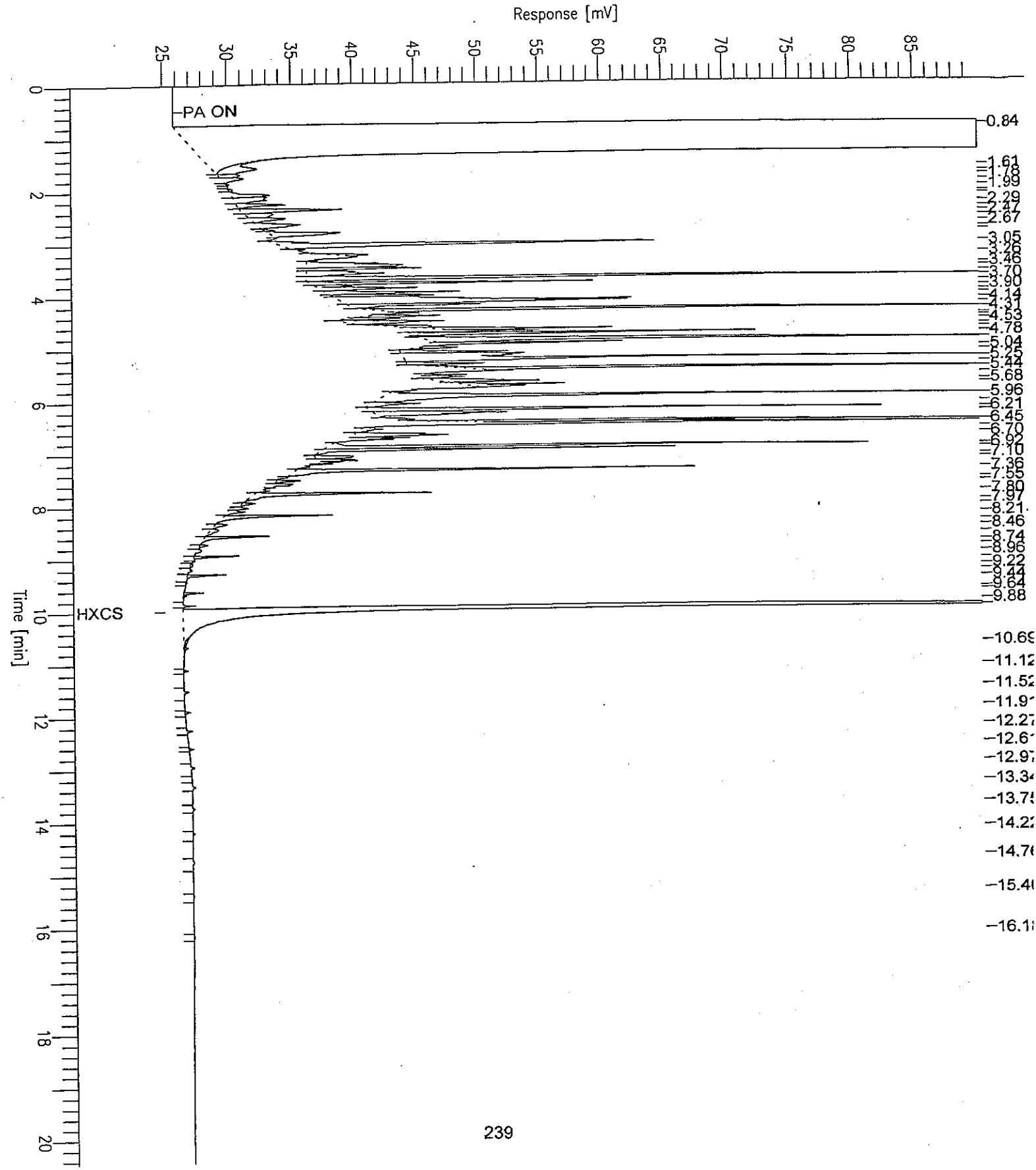
Chromatogram

Sample Name : ccv,04ws1277,dsl
FileName : G:\GC11\CHA\223A030.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 250mg/L
Date : 8/11/04 05:51 AM
Time of Injection: 8/11/04 05:30 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



Software Version: 4.1<2F12>
Date: 8/11/04 11:20 AM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC11\CHA\223A041.RAW Date: 8/11/04 10:47 AM
Sequence File: G:\GC11\223.SEQ Cycle: 41 Channel : A
Instrument : GC11 Rack/Vial: 0/41 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	9118552	272.68	272.6779	1.00	1.00	272.6779
JP5:10-16	9118552	437.05	437.0484	1.00	1.00	437.0484
JETA:10-16	9118552	470.30	470.2951	1.00	1.00	470.2951
JP8:10-16	9118552	479.99	479.9872	1.00	1.00	479.9872
DSL:10-22	13132367	502.08	502.0834	1.00	1.00	502.0834
GAIAFP:10-24	13220020	312.30	312.3010	1.00	1.00	312.3010
DSL:10-24	13220020	502.31	502.3069	1.00	1.00	502.3069
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	11082395	502.81	502.8140	1.00	1.00	502.8140
DSL:10-28	14674752	556.50	556.4998	1.00	1.00	556.4998
DSL:12-24	11170048	503.07	503.0735	1.00	1.00	503.0735
RRFPLH:16-24	4101468	593.58	593.5830	1.00	1.00	593.5830
CRUDE:10-40	14684134	14.68	14.6841	1.00	1.00	14.6841
TRIMSOL:12-36	12630792	513.33	513.3325	1.00	1.00	513.3325
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	12634162	637.09	637.0890	1.00	1.00	637.0890
BUNKC:12-40	12634162	1635.22	1635.2159	1.00	1.00	1635.2159
TRANSOIL:12-40	12634162	439.04	439.0400	1.00	1.00	439.0400
MO:22-32	1545693	78.13	78.1322	1.00	1.00	78.1322
MO:20-36	1897824	77.35	77.3546	1.00	1.00	77.3546
MO:22-36	1548397	70.68	70.6841	1.00	1.00	70.6841
HYFL:24-36	1460744	102.21	102.2123	1.00	1.00	102.2123
TPHHF:24-36	1460744	1.46e-07	1.4607e-07	1.00	1.00	1.4607e-07
MO:24-36	1460744	83.27	83.2707	1.00	1.00	83.2707
C-36	0	0.00	0.0000	1.00	1.00	0.0000

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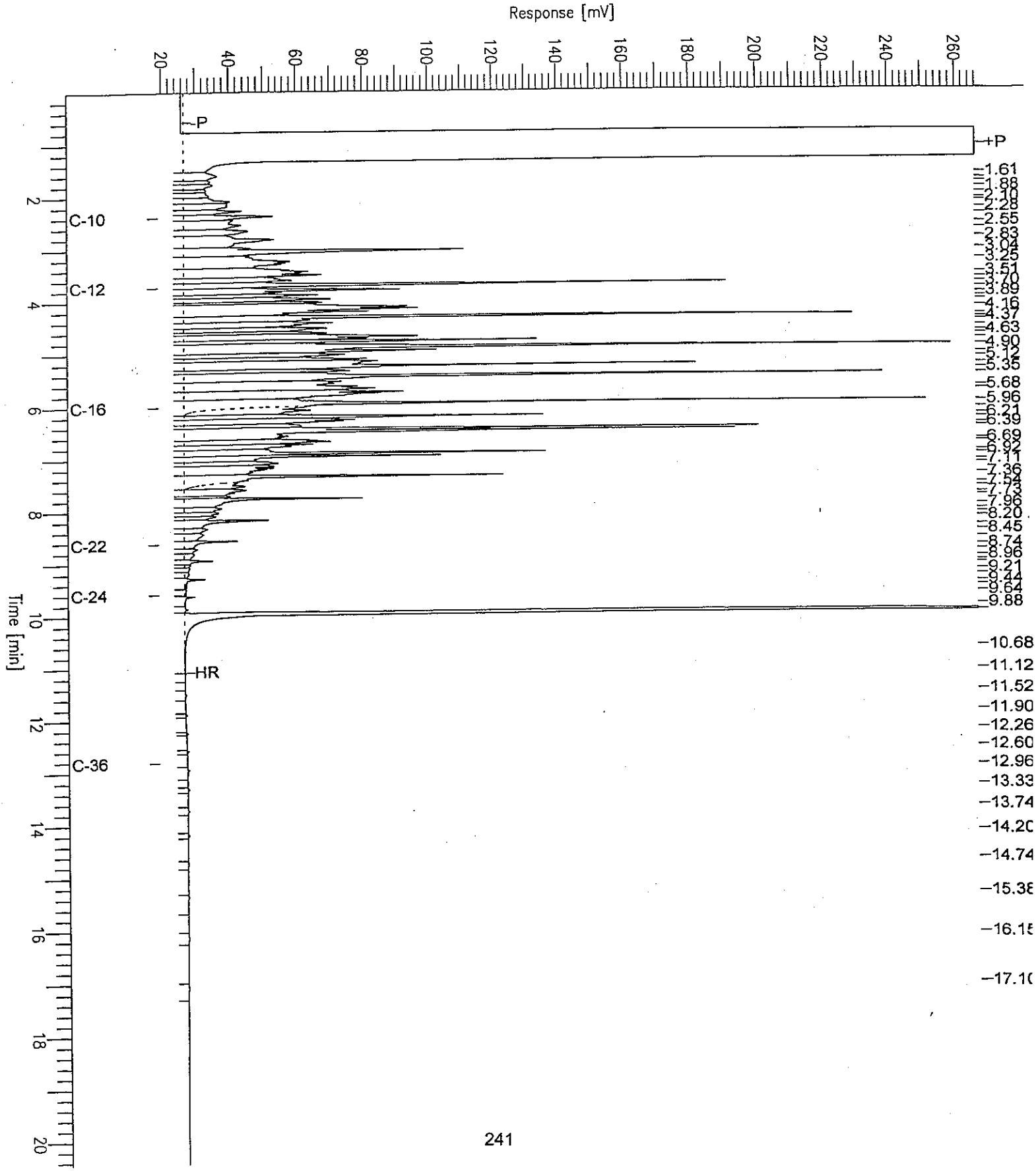
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A041P.TXO

Chromatogram

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC11\CHA\223A041.RAW
Method : ATEH224S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 500mg/L
Date : 8/11/04 11:20 AM
Time of Injection: 8/11/04 10:47 AM
Low Point : 18.90 mV High Point : 266.01 mV
Plot Scale: 247.1 mV



Software Version: 4.1<2F12>
Date: 8/11/04 11:13 AM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC11\CHA\223A041.RAW Date: 8/11/04 10:47 AM
Sequence File: G:\GC11\223.SEQ Cycle: 41 Channel : A
Instrument : GC11 Rack/Vial: 0/41 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1438897	51.61	51.6075			9.998	103.2150

CURTIS & TOMPKINS,LTD. BERKELEY

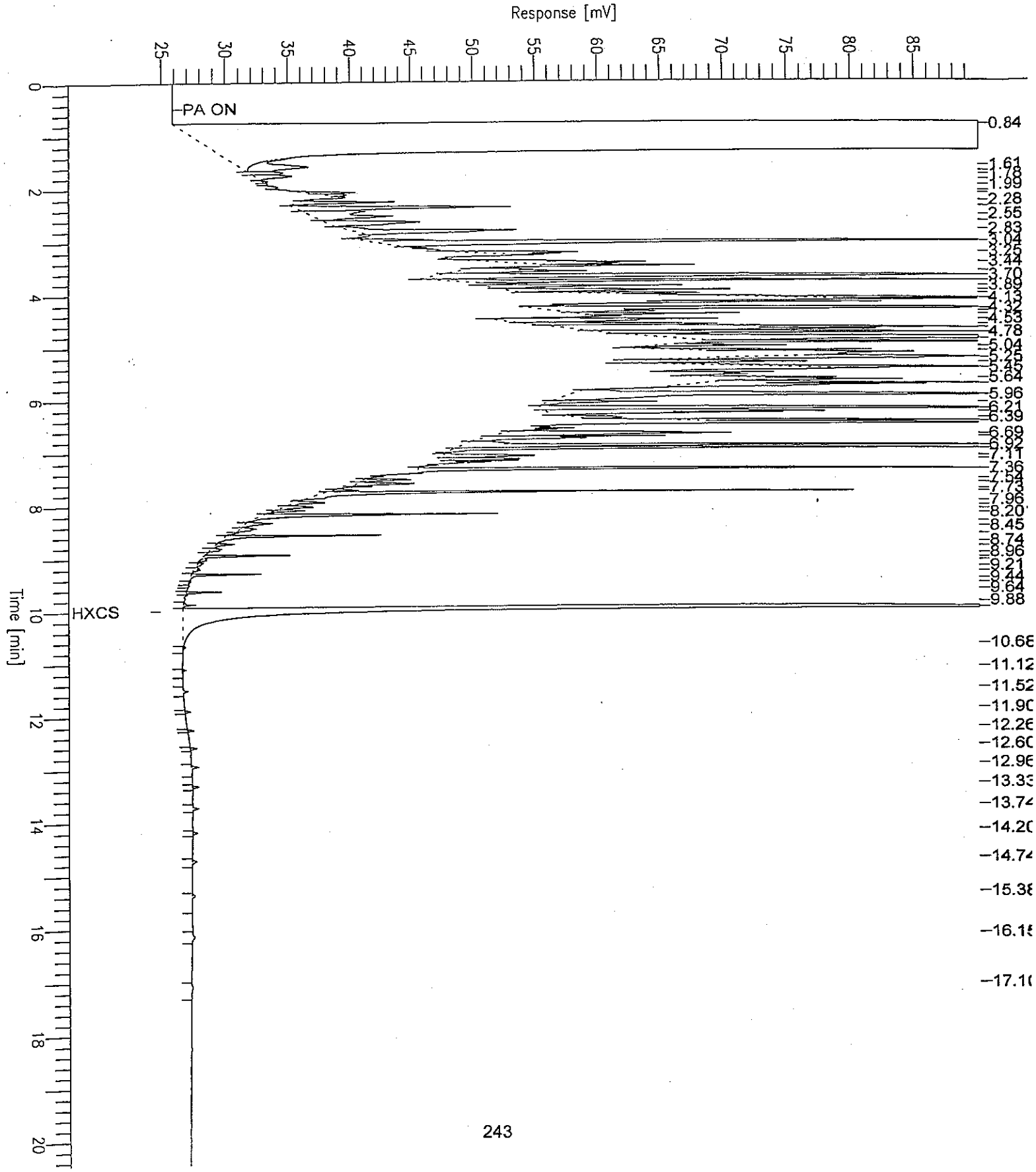
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A041.TX0

Chromatogram

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC11\CHA\223a041.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 8/11/04 11:13 AM
Time of Injection: 8/11/04 10:47 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/12/04 08:09 AM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC11\CHA\223A056.RAW Date: 8/11/04 09:20 PM
Sequence File: G:\GC11\223.SEQ Cycle: 56 Channel : A
Instrument : GC11 Rack/Vial: 0/56 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	18685002	558.75	558.7495	1.00	1.00	558.7495
JP5:10-16	18685002	895.56	895.5644	1.00	1.00	895.5644
JETA:10-16	18685002	963.69	963.6909	1.00	1.00	963.6909
JP8:10-16	18685002	983.55	983.5510	1.00	1.00	983.5510
DSL:10-22	26914355	1029.00	1029.0035	1.00	1.00	1029.0035
GAIAFP:10-24	27118395	640.63	640.6269	1.00	1.00	640.6269
DSL:10-24	27118395	1030.39	1030.3885	1.00	1.00	1030.3885
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	22694186	1029.65	1029.6469	1.00	1.00	1029.6469
[illegible]L:10-28	28589661	1084.18	1084.1847	1.00	1.00	1084.1847
[illegible]L:12-24	22898226	1031.28	1031.2839	1.00	1.00	1031.2839
KRFPLH:16-24	8433392	1220.52	1220.5187	1.00	1.00	1220.5187
CRUDE:10-40	28593542	28.59	28.5935	1.00	1.00	28.5935
TRIMSOL:12-36	24372485	990.53	990.5307	1.00	1.00	990.5307
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	24373373	1229.05	1229.0493	1.00	1.00	1229.0493
BUNKC:12-40	24373373	3154.60	3154.6000	1.00	1.00	3154.6000
TRANSOIL:12-40	24373373	846.98	846.9802	1.00	1.00	846.9802
MO:22-32	1676959	84.77	84.7675	1.00	1.00	84.7675
MO:20-36	2418474	98.58	98.5761	1.00	1.00	98.5761
MO:22-36	1678298	76.61	76.6140	1.00	1.00	76.6140
HYFL:24-36	1474259	103.16	103.1580	1.00	1.00	103.1580
TPHHF:24-36	1474259	1.47e-07	1.4743e-07	1.00	1.00	1.4743e-07
MO:24-36	1474259	84.04	84.0411	1.00	1.00	84.0411
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

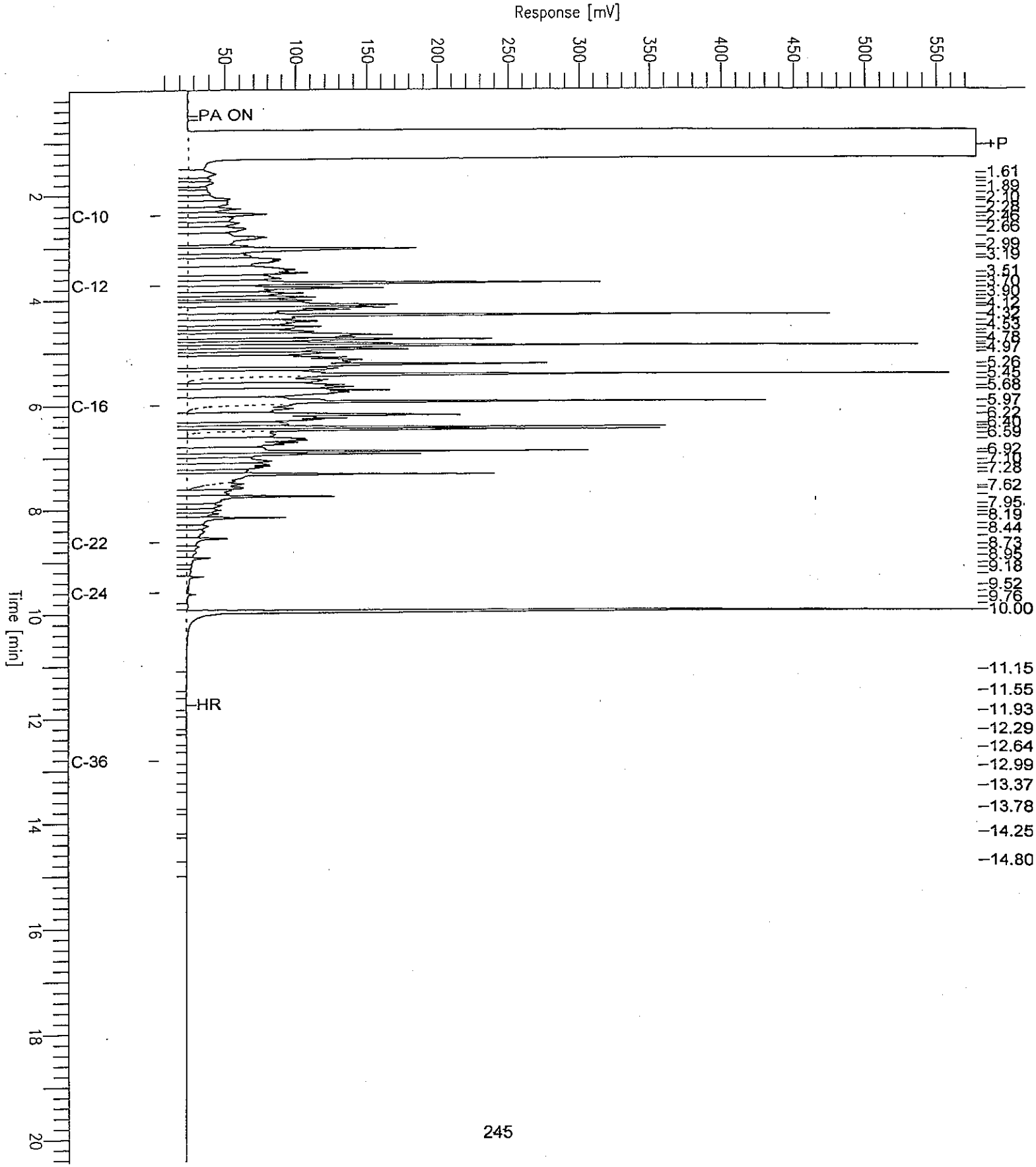
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A056P.TXO

Chromatogram

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC11\CHA\223A056.RAW
Method : ATEH224S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 7 mV

Sample #: 1000mg/l Page 1 of 1
Date : 8/12/04 08:09 AM
Time of Injection: 8/11/04 09:20 PM
Low Point : 6.99 mV High Point : 577.86 mV
Plot Scale: 570.9 mV



Software Version: 4.1<2F12>
Date: 8/11/04 09:40 PM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC11\CHA\223A056.RAW Date: 8/11/04 09:20 PM
Sequence File: G:\GC11\223.SEQ Cycle: 56 Channel : A
Instrument : GC11 Rack/Vial: 0/56 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1416712	50.81	50.8118			9.998	101.6236

CURTIS & TOMPKINS,LTD. BERKELEY

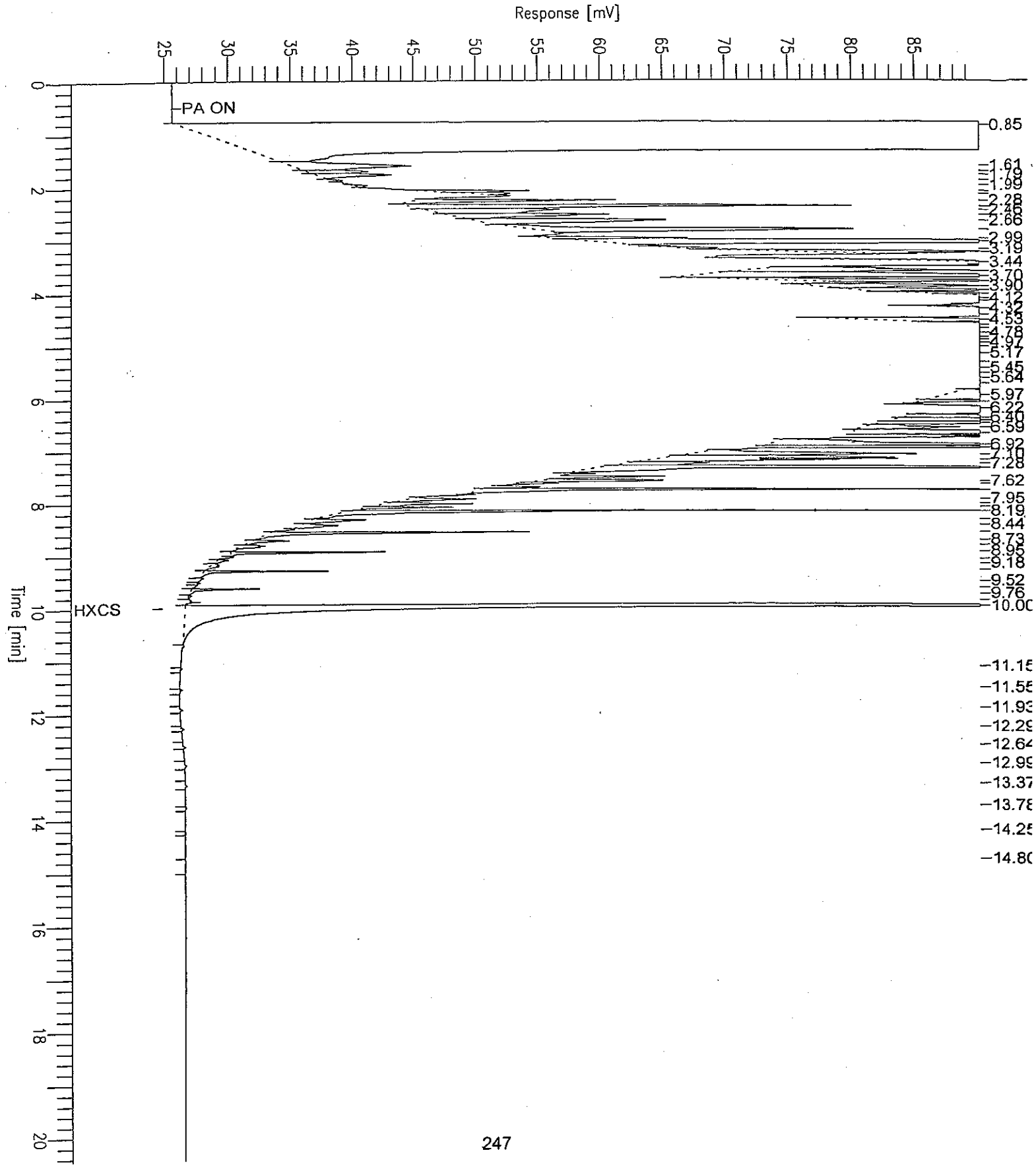
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A056.TX0

Chromatogram

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC11\CHA\223A056.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 1000mg/l
Date : 8/11/04 09:40 PM
Time of Injection: 8/11/04 09:20 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/10/04 01:50 PM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC15\CHB\223B003.RAW Date: 8/10/04 01:27 PM
Sequence File: G:\GC15\223.SEQ Cycle: 3 Channel : B
Instrument : GC15 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.305		7022312	390.08	1.0000	390.0794	1.0000	390.0794
JP8:10-16	4.305		7022312	450.43	1.0000	450.4310	1.0000	450.4310
JP5:10-16	4.305		7022312	347.42	1.0000	347.4181	1.0000	347.4181
KER:10-16	4.305		7022312	7.02e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.192		9730665	475.35	1.0000	475.3530	1.0000	475.3530
DSL:10-22	5.576		10039144	478.65	1.0000	478.6523	1.0000	478.6523
DSL:10-24	5.931		10112769	478.80	1.0000	478.7998	1.0000	478.7998
GAIAFP:10-24	5.931		10112769	1.01e-04	1.0000	0.0001	1.0000	0.0001
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		8382092	469.97	1.0000	469.9744	1.0000	469.9744
TROIL:12-22	6.226		8382092	8.38e-06	1.0000	8.3821e-06	1.0000	8.3821e-06
DSL:10-28	6.562		11253931	532.02	1.0000	532.0248	1.0000	532.0248
DSL:12-24	6.581		8455716	470.22	1.0000	470.2187	1.0000	470.2187
DSL:12-32	7.763		9597711	532.75	1.0000	532.7463	1.0000	532.7463
CRUDE:10-40	8.255		11256099	395.92	1.0000	395.9228	1.0000	395.9228
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		9599046	9.60e-06	1.0000	9.5990e-06	1.0000	9.5990e-06
HYFL:12-40	8.905		9599046	9.60e-05	1.0000	0.0001	1.0000	0.0001
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		1215619	80.66	1.0000	80.6567	1.0000	80.6567
MO:20-36	10.262		1525170	85.88	1.0000	85.8825	1.0000	85.8825
MO:22-36	10.646		1216692	77.74	1.0000	77.7370	1.0000	77.7370
MO:24-36	11.002		1143067	93.78	1.0000	93.7751	1.0000	93.7751
TPHHF:24-36	11.002		1143067	1.14e-06	1.0000	1.1431e-06	1.0000	1.1431e-06
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			150853944					5359.6722

CURTIS & TOMPKINS,LTD. BERKELEY

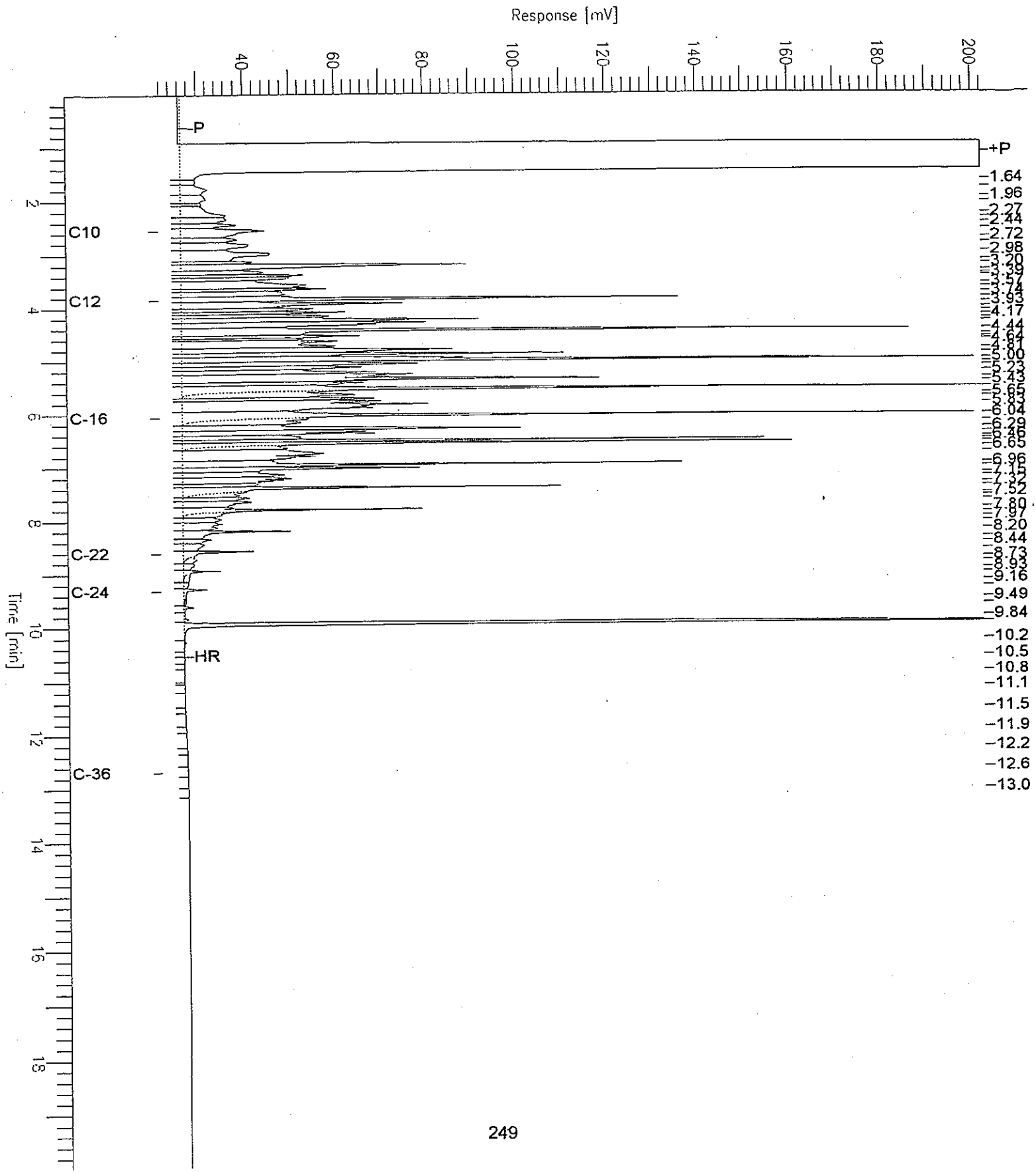
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\223B003P.TXO

Chromatogram

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC15\CHB\223B003.RAW
Method : BTEH221S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 8/10/04 01:50 PM
Time of Injection: 8/10/04 01:27 PM
Low Point : 21.74 mV High Point : 202.06 mV
Plot Scale: 180.3 mV



Software Version: 4.1<2F12>
Date: 8/10/04 01:47 PM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC15\CHB\223B003.RAW Date: 8/10/04 01:27 PM
Sequence File: G:\GC15\223.SEQ Cycle: 3 Channel : B
Instrument : GC15 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area (µV·s)	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time (min)	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1125433	47.67	47.6706			9.952	95.3413	1.0000
		47.67						

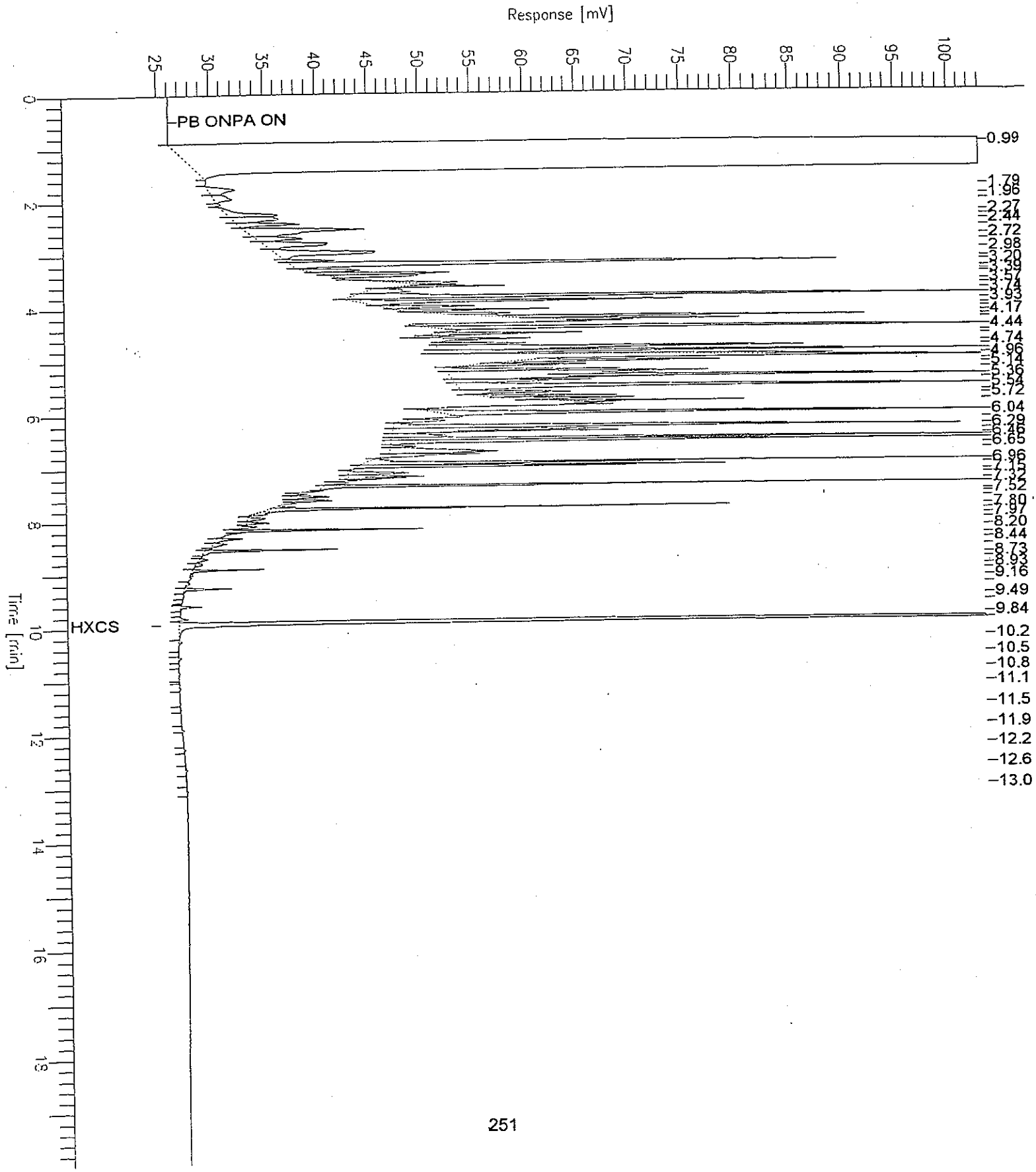
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\223B003.TXO

GC15 Channel B Surrogate

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC15\CHB\223B003.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 8/10/04 01:47 PM
Time of Injection: 8/10/04 01:27 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 09:54 AM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC15\CHB\223B012.RAW Date: 8/10/04 10:11 PM
Sequence File: G:\GC15\223.SEQ Cycle: 12 Channel : B
Instrument : GC15 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.305		14998524	833.15	1.0000	833.1466	1.0000	833.1466
JP8:10-16	4.305		14998524	962.05	1.0000	962.0477	1.0000	962.0477
JP5:10-16	4.305		14998524	742.03	1.0000	742.0289	1.0000	742.0289
KER:10-16	4.305		14998524	1.50e-04	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.192		20949340	1023.40	1.0000	1023.3967	1.0000	1023.3967
DSL:10-22	5.576		21547757	1027.37	1.0000	1027.3669	1.0000	1027.3669
DSL:10-24	5.931		21699974	1027.41	1.0000	1027.4083	1.0000	1027.4083
GAIAFP:10-24	5.931		21699974	2.17e-04	1.0000	0.0002	1.0000	0.0002
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		18014156	1010.03	1.0000	1010.0334	1.0000	1010.0334
TROIL:12-22	6.226		18014156	1.80e-05	1.0000	0.0000	1.0000	0.0000
DSL:10-28	6.562		22920887	1083.58	1.0000	1083.5753	1.0000	1083.5753
DSL:12-24	6.581		18166373	1010.22	1.0000	1010.2241	1.0000	1010.2241
DSL:12-32	7.763		19389117	1076.24	1.0000	1076.2442	1.0000	1076.2442
CRUDE:10-40	8.255		22923447	806.31	1.0000	806.3110	1.0000	806.3110
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		19389846	1.94e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.905		19389846	1.94e-04	1.0000	0.0002	1.0000	0.0002
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		1374961	91.23	1.0000	91.2290	1.0000	91.2290
MO:20-36	10.262		1973925	111.15	1.0000	111.1519	1.0000	111.1519
MO:22-36	10.646		1375507	87.88	1.0000	87.8841	1.0000	87.8841
MO:24-36	11.002		1223290	100.36	1.0000	100.3564	1.0000	100.3564
TPHHF:24-36	11.002		1223290	1.22e-06	1.0000	1.2233e-06	1.0000	1.2233e-06
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			311269942					10992.4051

CURTIS & TOMPKINS,LTD. BERKELEY

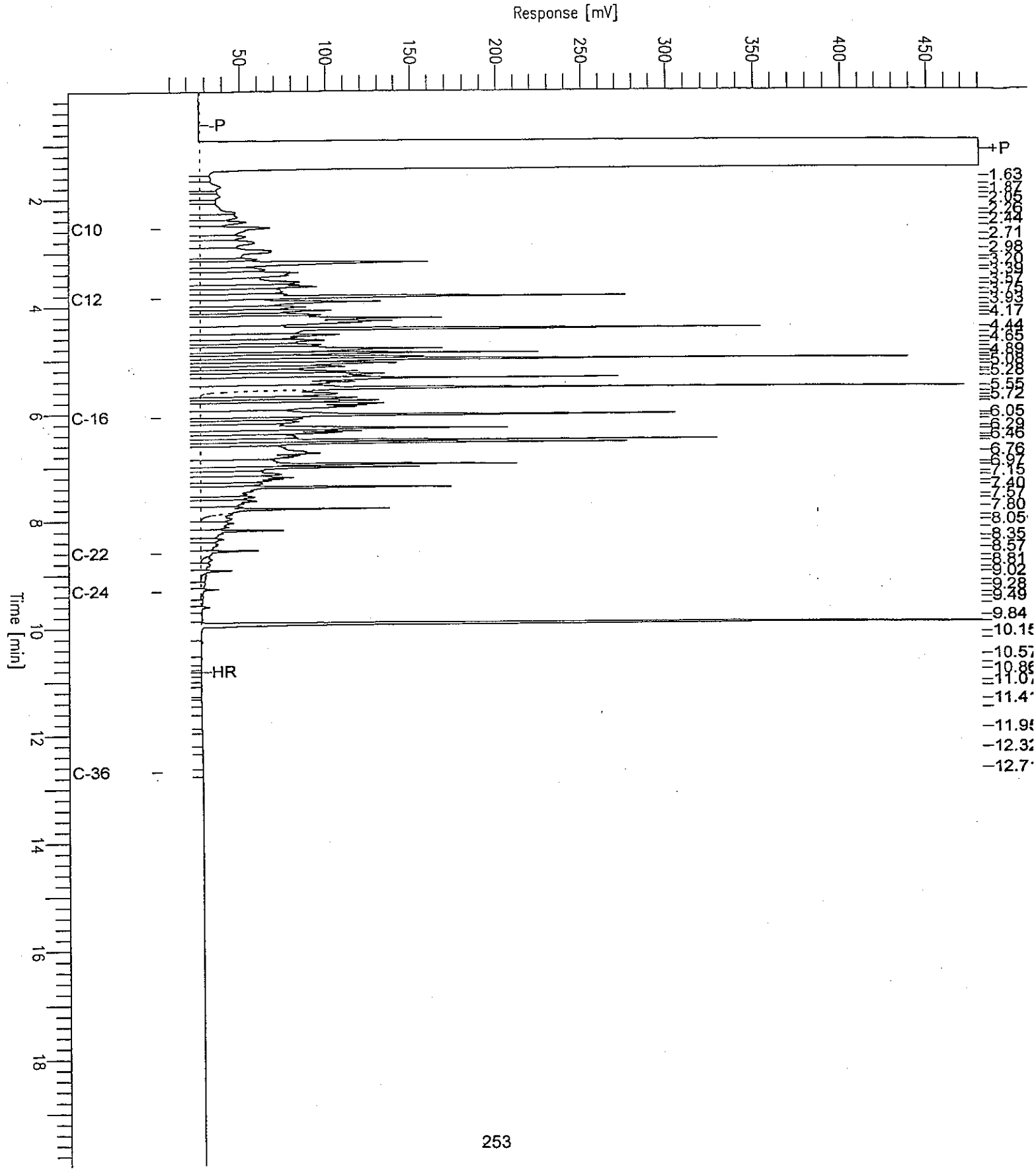
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\223B012P.TX0

Chromatogram

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC15\CHB\223B012.RAW
Method : BTEH221S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 4 mV

Sample #: 1000mg/L
Date : 8/11/04 09:54 AM
Time of Injection: 8/10/04 10:11 PM
Low Point : 4.44 mV High Point : 480.18 mV
Plot Scale: 475.7 mV



Software Version: 4.1<2F12>
Date: 8/11/04 09:18 AM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC15\CHB\223B012.RAW Date: 8/10/04 10:11 PM
Sequence File: G:\GC15\223.SEQ Cycle: 12 Channel : B
Instrument : GC15 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1179176	49.95	49.9471		9.956	99.8942	1.0000
		49.95					

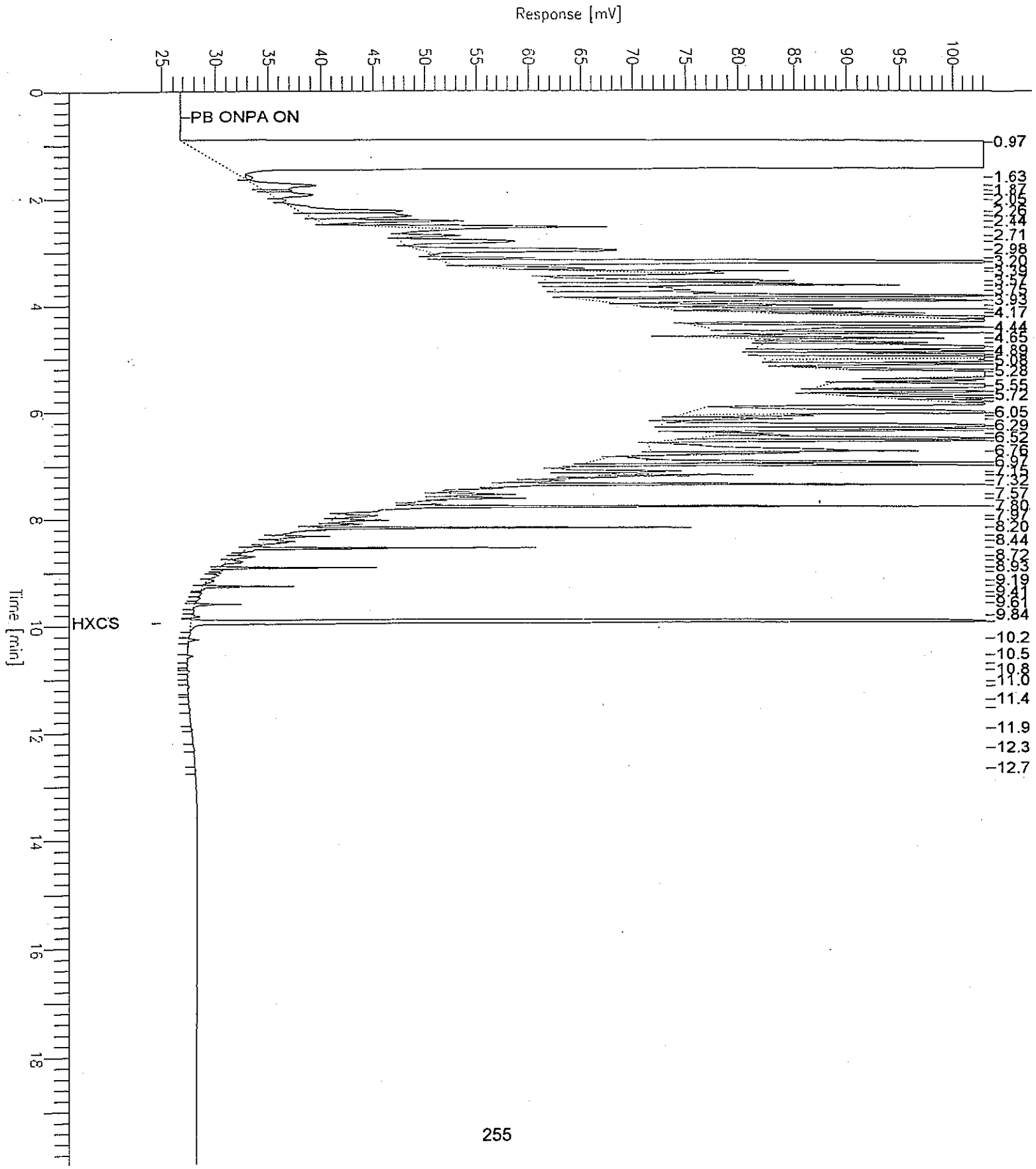
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\223B012.TXO

GC15 Channel B Surrogate

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC15\CHB\223b012.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 1000mg/L Page 1 of 1
Date : 8/11/04 09:18 AM
Time of Injection: 8/10/04 10:11 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 04:12 PM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC15\CHB\224B011.RAW Date: 8/11/04 03:36 PM
Sequence File: G:\GC15\224.SEQ Cycle: 11 Channel : B
Instrument : GC15 Rack/Vial: 0/11 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.305		7008193	389.30	1.0000	389.2951	1.0000	389.2951
JP8:10-16	4.305		7008193	449.53	1.0000	449.5253	1.0000	449.5253
JP5:10-16	4.305		7008193	346.72	1.0000	346.7196	1.0000	346.7196
KER:10-16	4.305		7008193	7.01e-05	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.192		9768319	477.19	1.0000	477.1924	1.0000	477.1924
DSL:10-22	5.576		10037196	478.56	1.0000	478.5594	1.0000	478.5594
DSL:10-24	5.931		10114392	478.88	1.0000	478.8766	1.0000	478.8766
GAIAFP:10-24	5.931		10114392	1.01e-04	1.0000	0.0001	1.0000	0.0001
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		8380185	469.87	1.0000	469.8675	1.0000	469.8675
TROIL:12-22	6.226		8380185	8.38e-06	1.0000	8.3802e-06	1.0000	8.3802e-06
DSL:10-28	6.562		11267362	532.66	1.0000	532.6598	1.0000	532.6598
DSL:12-24	6.581		8457381	470.31	1.0000	470.3113	1.0000	470.3113
DSL:12-32	7.763		9611570	533.52	1.0000	533.5156	1.0000	533.5156
CRUDE:10-40	8.255		11268581	396.36	1.0000	396.3619	1.0000	396.3619
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		9611570	9.61e-06	1.0000	9.6116e-06	1.0000	9.6116e-06
HYFL:12-40	8.905		9611570	9.61e-05	1.0000	0.0001	1.0000	0.0001
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		1231385	79.46	1.0000	79.4619	1.0000	79.4619
MO:20-36	10.262		1500262	80.53	1.0000	80.5342	1.0000	80.5342
MO:22-36	10.646		1231385	73.15	1.0000	73.1499	1.0000	73.1499
TPHHF:24-36	11.002		1154189	1.15e-06	1.0000	1.1542e-06	1.0000	1.1542e-06
MO:24-36	11.002		1154189	86.89	1.0000	86.8907	1.0000	86.8907
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			150926885					5342.9216

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\224B011P.TXO

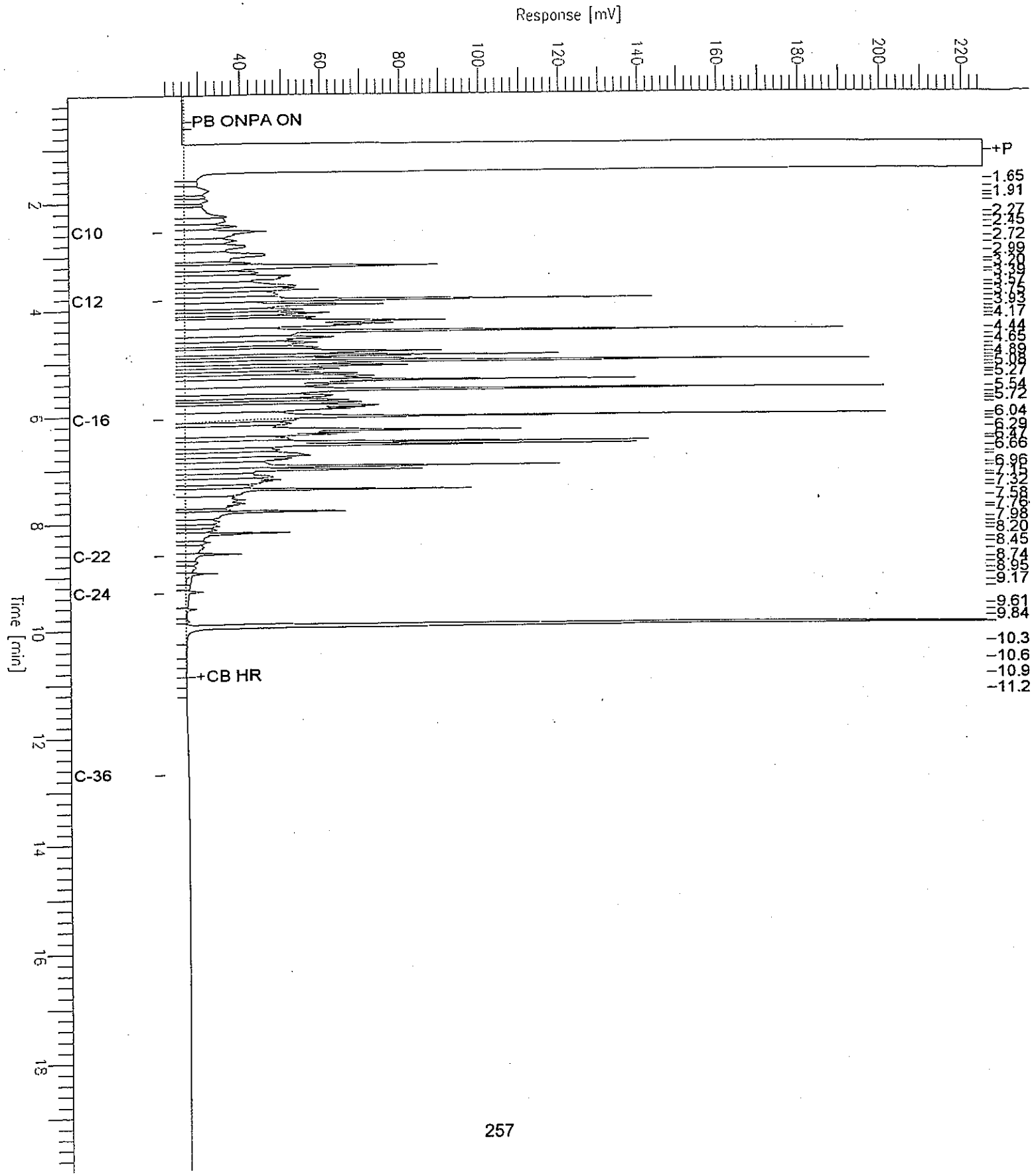
Chromatogram

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC15\CHB\224B011.RAW
Method : BTEH224S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 21 mV

Sample #: 500mg/L
Date : 8/11/04 04:12 PM
Time of Injection: 8/11/04 03:36 PM
Low Point : 21.14 mV
Plot Scale: 203.9 mV

High Point : 225.04 mV



Software Version: 4.1<2F12>
Date: 8/11/04 03:56 PM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC15\CHB\224B011.RAW Date: 8/11/04 03:36 PM
Sequence File: G:\GC15\224.SEQ Cycle: 11 Channel : B
Instrument : GC15 Rack/Vial: 0/11 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1139884	48.28	48.2828		9.957	96.5655	1.0000
		48.28					

Curtis&Tompkins,Ltd. Berkeley,CA

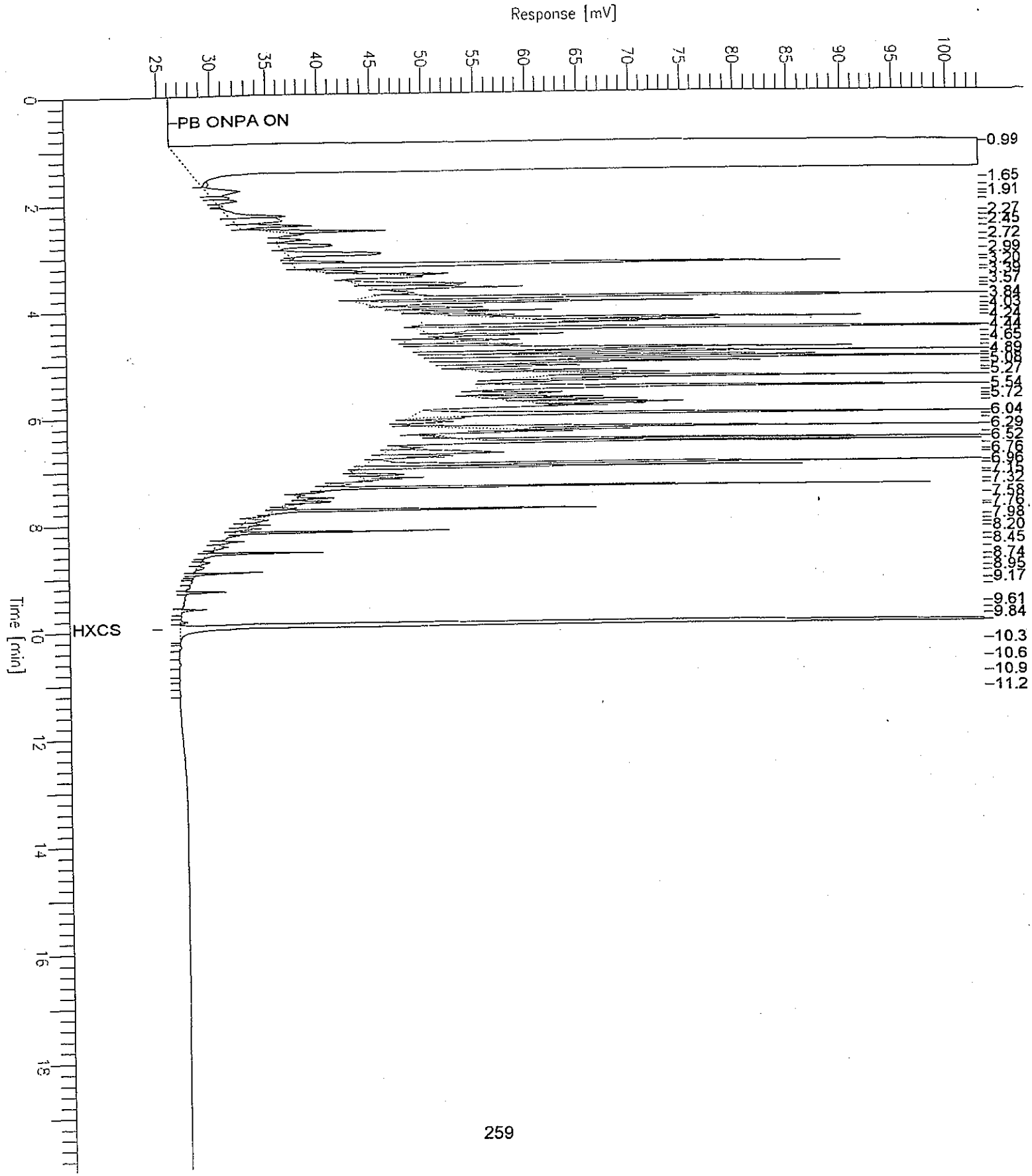
Report stored in ASCII file: G:\GC15\CHB\224B011.TX0

GC15 Channel B Surrogate

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC15\CHB\224B011.raw
Method : 20MINB
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 8/11/04 03:56 PM
Time of Injection: 8/11/04 03:36 PM
Low Point : 25.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 8/12/04 08:49 AM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC15\CHB\224B022.RAW Date: 8/12/04 12:08 AM
Sequence File: G:\GC15\224.SEQ Cycle: 22 Channel : B
Instrument : GC15 Rack/Vial: 0/22 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
JETA:10-16	4.305		14833307	823.97	1.0000	823.9691	1.0000	823.9691
JP8:10-16	4.305		14833307	951.45	1.0000	951.4502	1.0000	951.4502
JP5:10-16	4.305		14833307	733.86	1.0000	733.8551	1.0000	733.8551
KER:10-16	4.305		14833307	1.48e-04	1.0000	0.0001	1.0000	0.0001
DSL:10-20	5.192		20662484	1009.38	1.0000	1009.3836	1.0000	1009.3836
DSL:10-22	5.576		21261873	1013.74	1.0000	1013.7363	1.0000	1013.7363
DSL:10-24	5.931		21416587	1013.99	1.0000	1013.9910	1.0000	1013.9910
GAIAFP:10-24	5.931		21416587	2.14e-04	1.0000	0.0002	1.0000	0.0002
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		17746345	995.02	1.0000	995.0175	1.0000	995.0175
TROIL:12-22	6.226		17746345	1.77e-05	1.0000	0.0000	1.0000	0.0000
DSL:10-28	6.562		22653450	1070.93	1.0000	1070.9323	1.0000	1070.9323
DSL:12-24	6.581		17901058	995.47	1.0000	995.4701	1.0000	995.4701
DSL:12-32	7.763		19139044	1062.36	1.0000	1062.3632	1.0000	1062.3632
CRUDE:10-40	8.255		22657881	796.97	1.0000	796.9699	1.0000	796.9699
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		19142353	1.91e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.905		19142353	1.91e-04	1.0000	0.0002	1.0000	0.0002
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		1392699	89.87	1.0000	89.8715	1.0000	89.8715
MO:20-36	10.262		1995396	107.11	1.0000	107.1131	1.0000	107.1131
MO:22-36	10.646		1396008	82.93	1.0000	82.9293	1.0000	82.9293
TPHHF:24-36	11.002		1241294	1.24e-06	1.0000	1.2413e-06	1.0000	1.2413e-06
MO:24-36	11.002		1241294	93.45	1.0000	93.4482	1.0000	93.4482
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			307486278					10840.5011

CURTIS & TOMPKINS,LTD. BERKELEY

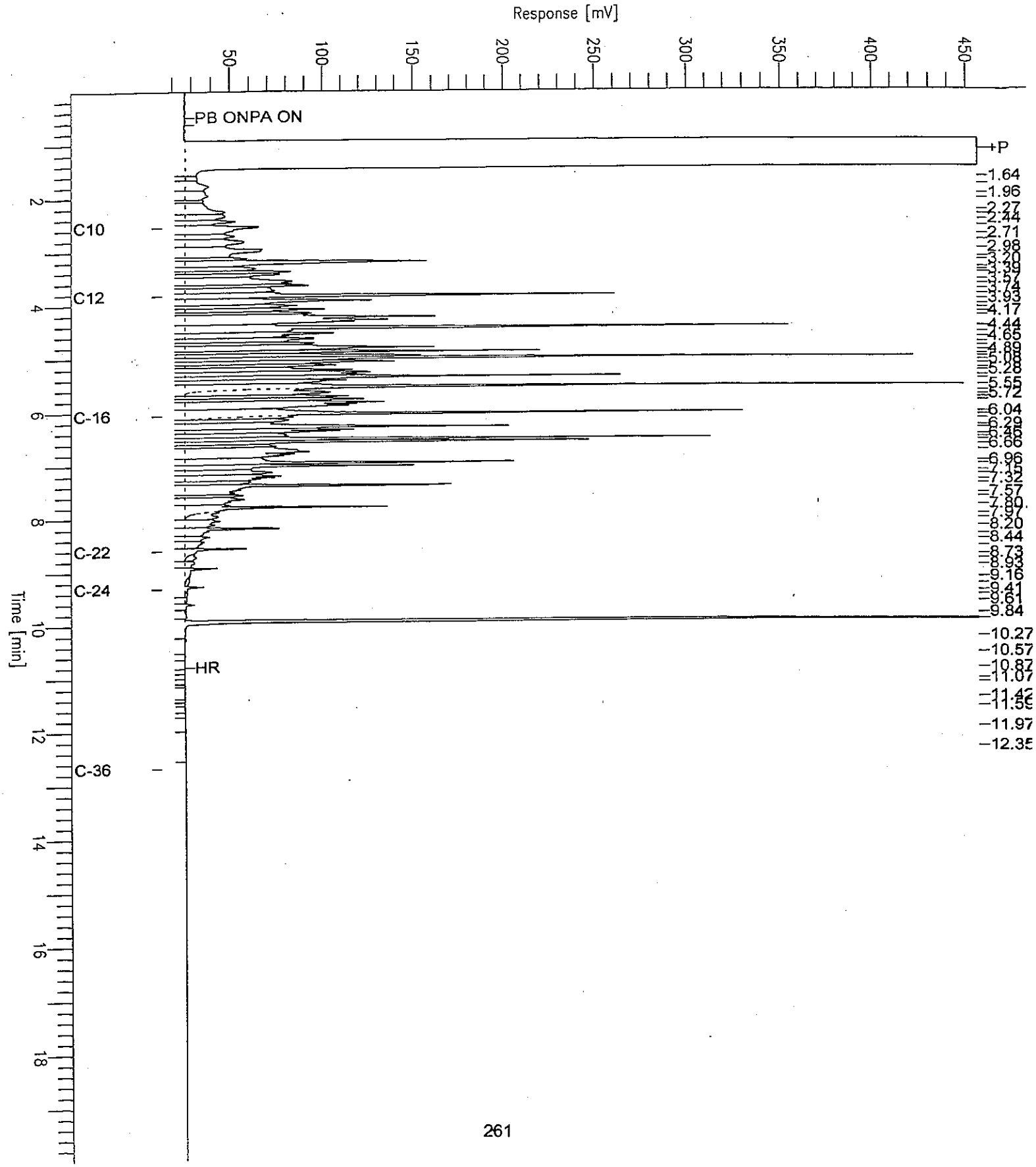
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\224B022P.TX0

Chromatogram

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC15\CHB\224B022.RAW
Method : BTEH224S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #: 1000mg/L Page 1 of 1
Date : 8/12/04 08:49 AM
Time of Injection: 8/12/04 12:08 AM
Low Point : 14.52 mV High Point : 456.29 mV
Plot Scale: 441.8 mV



Software Version: 4.1<2F12>
Date: 8/12/04 12:28 AM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC15\CHB\224B022.RAW Date: 8/12/04 12:08 AM
Sequence File: G:\GC15\224.SEQ Cycle: 22 Channel : B
Instrument : GC15 Rack/Vial: 0/22 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1194064	50.58	50.5777			9.955	101.1554	1.0000
		50.58						

Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\224B022.TXO

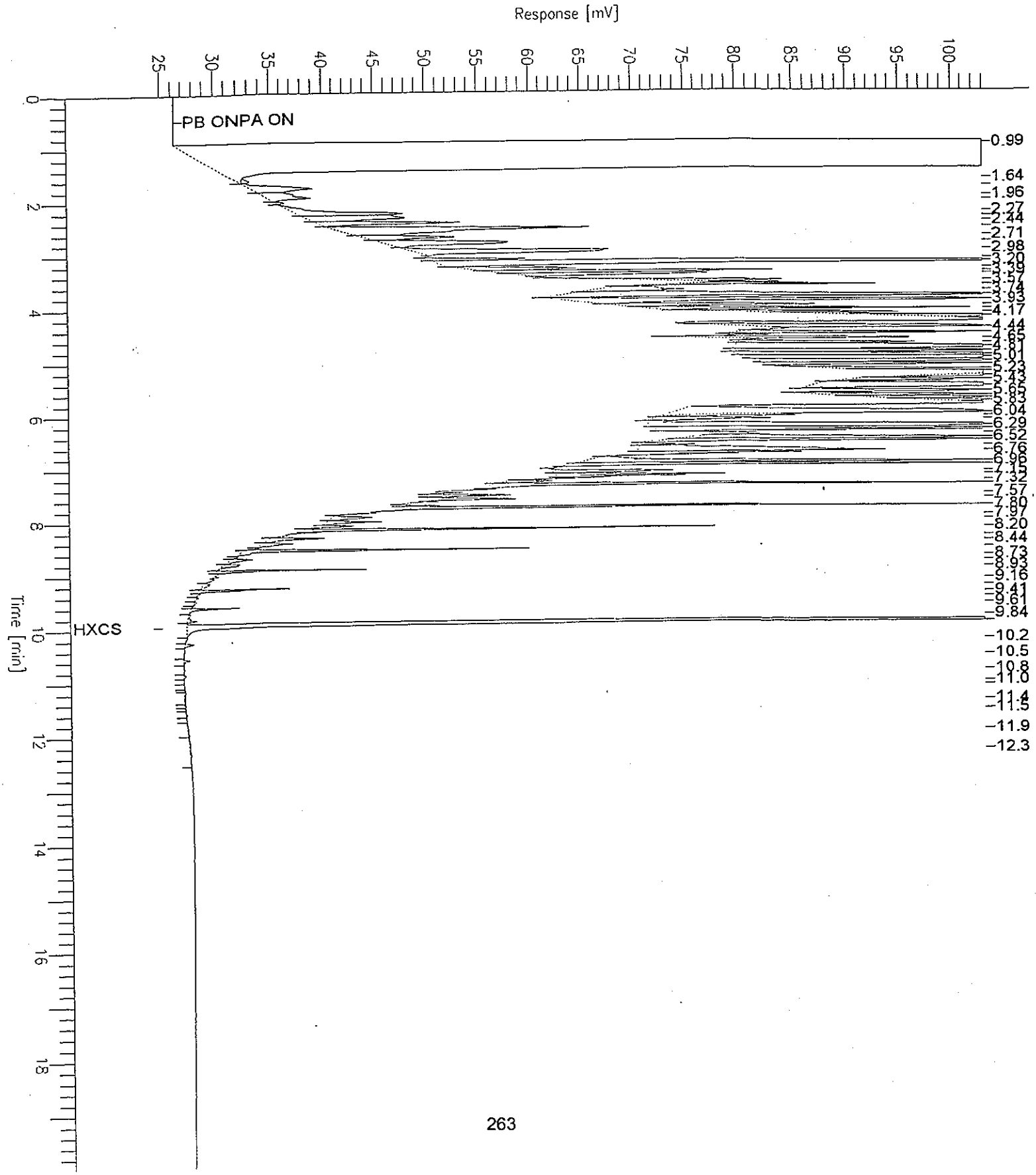
GC15 Channel B Surrogate

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC15\CHB\224B022.raw
Method : 20MINB
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 1000mg/L
Date : 8/12/04 12:28 AM
Time of Injection: 8/12/04 12:08 AM
Low Point : 25.00 mV
Plot Scale: 78.0 mV

High Point : 103.00 mV



Software Version: 4.1<2F12>
Date: 8/10/04 11:07 AM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC17\CHA\223A003.RAW Date: 8/10/04 10:19 AM
Sequence File: G:\GC17\223.SEQ Cycle: 3 Channel : A
Instrument : GC17 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area (µV·s)	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	9719604	372.78	372.7761	1.00	1.00	372.7761
JP5:10-16	9719604	524.04	524.0447	1.00	1.00	524.0447
JP8:10-16	9719604	508.46	508.4613	1.00	1.00	508.4613
KER:10-16	9719604	9.72e-07	9.7196e-07	1.00	1.00	9.7196e-07
DSL:10-20	13527500	476.79	476.7893	1.00	1.00	476.7893
DSL:10-22	13914322	472.25	472.2482	1.00	1.00	472.2482
DSL:10-24	14016674	470.13	470.1299	1.00	1.00	470.1299
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	11562395	1.16e-06	1.1562e-06	1.00	1.00	1.1562e-06
DSL:12-22	11562395	471.00	471.0019	1.00	1.00	471.0019
DSL:10-28	15659397	523.96	523.9589	1.00	1.00	523.9589
DSL:12-24	11664747	468.48	468.4829	1.00	1.00	468.4829
DSL:12-32	13307754	531.50	531.5035	1.00	1.00	531.5035
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	13366890	1.34e-06	1.3367e-06	1.00	1.00	1.3367e-06
HYFL:12-40	13366890	423.18	423.1831	1.00	1.00	423.1831
BUNKC:12-40	13366890	1156.77	1156.7698	1.00	1.00	1156.7698
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1745359	74.55	74.5476	1.00	1.00	74.5476
MO:20-36	2135213	74.45	74.4488	1.00	1.00	74.4488
MO:22-36	1748392	66.62	66.6197	1.00	1.00	66.6197
MO:24-36	1646040	76.28	76.2795	1.00	1.00	76.2795
BUNKC:12-50	13439830	1057.38	1057.3841	1.00	1.00	1057.3841
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

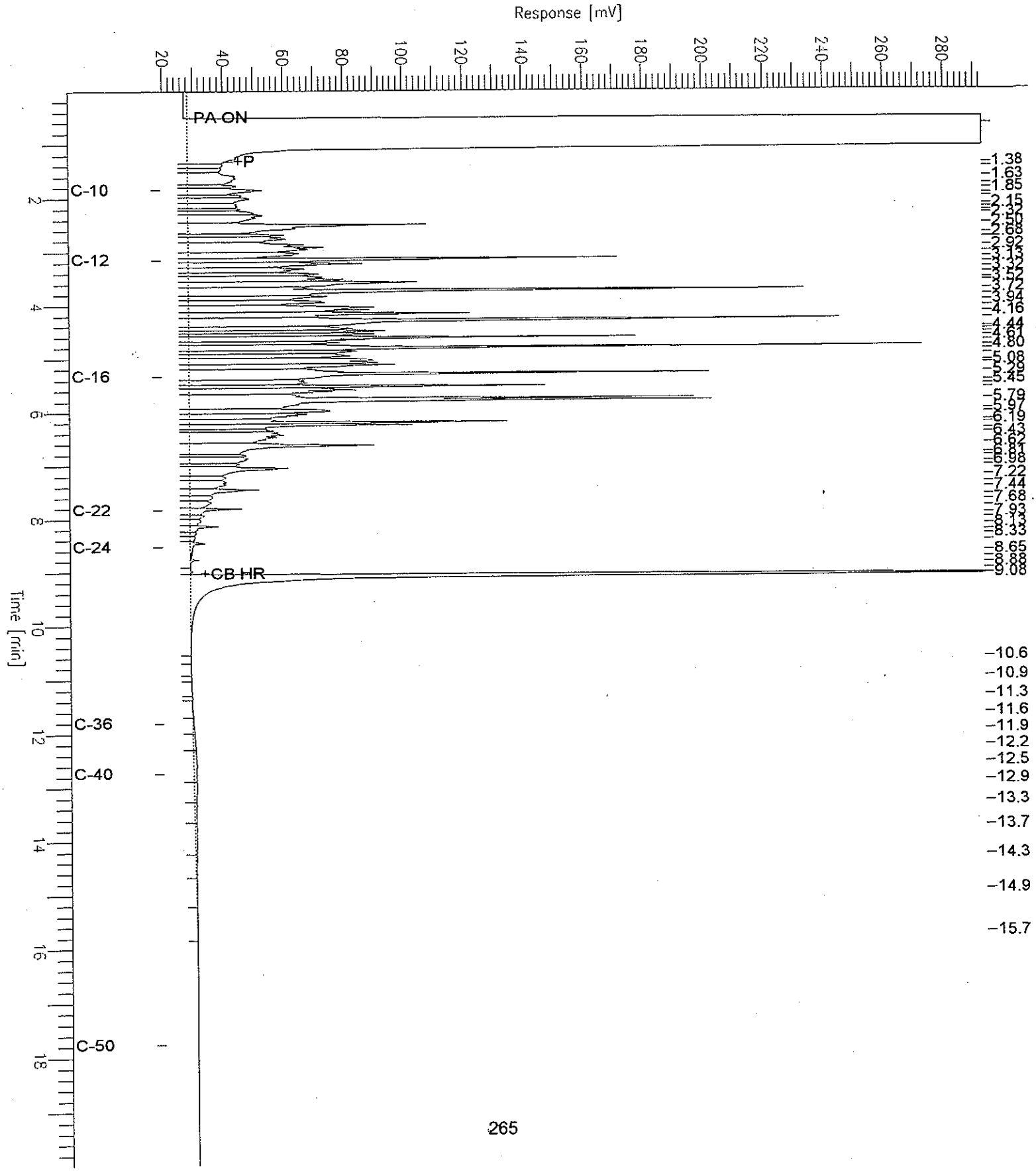
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A003P.TX0

Chromatogram

Sample Name : ccv,04ws1410,dsl
FileName : G:\GC17\CHA\223A003.RAW
Method : ATEH212.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 500mg/L
Date : 8/10/04 11:07 AM
Time of Injection: 8/10/04 10:19 AM
Low Point : 19.36 mV High Point : 292.97 mV
Plot Scale: 273.6 mV



Software Version: 4.1<2F12>
Date: 8/10/04 10:39 AM
Sample Name : ccv,04ws1410,dsl
Data File : G:\GC17\CHA\223A003.RAW Date: 8/10/04 10:19 AM
Sequence File: G:\GC17\223.SEQ Cycle: 3 Channel : A
Instrument : GC17 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	1591183	50.33	50.3280		9.079	100.6561

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A003.TXO

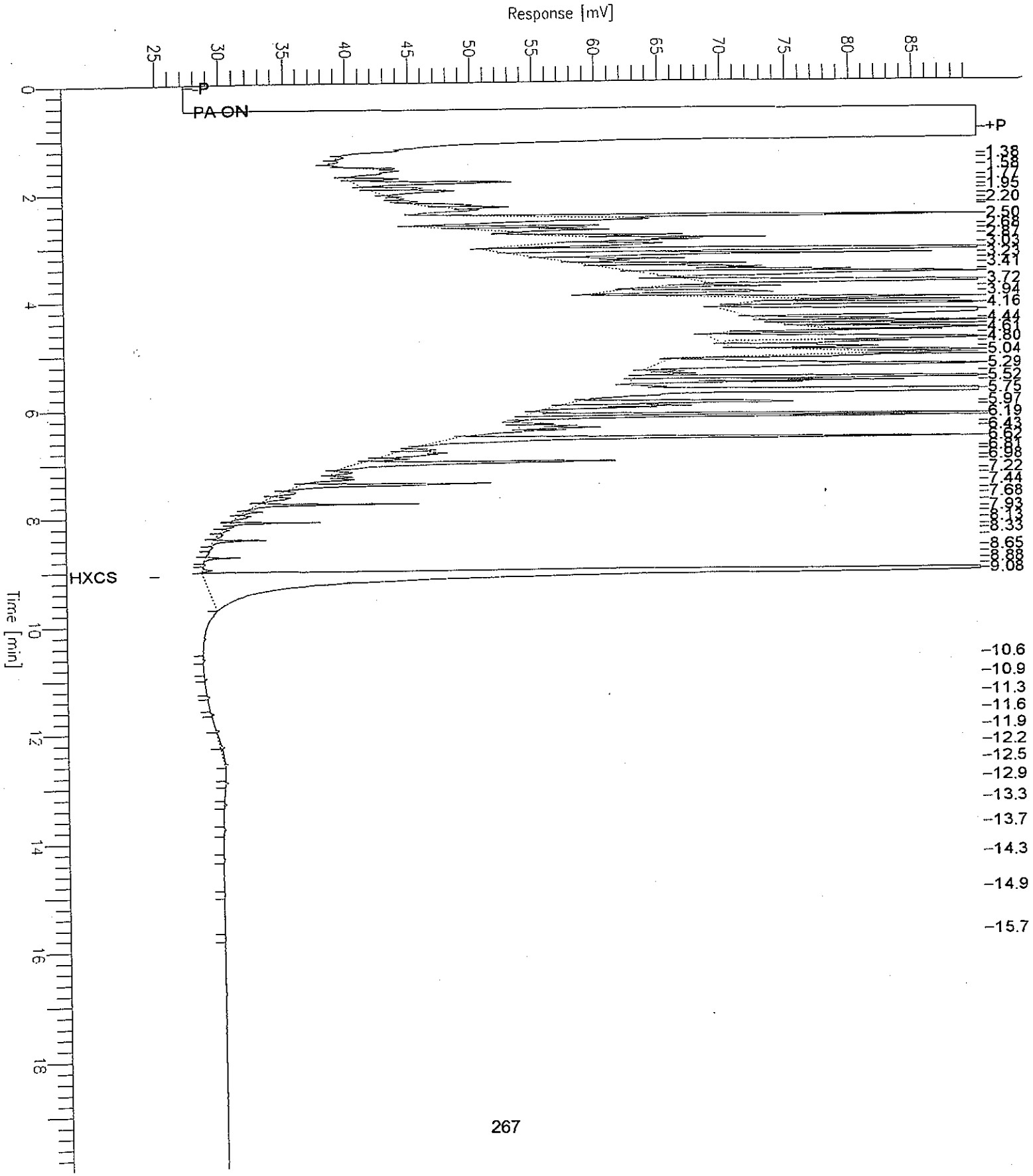
Chromatogram

Sample Name : ccv,04wsl410,dsl
FileName : G:\GC17\CHA\223A003.raw
Method : 20mina
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 8/10/04 10:39 AM
Time of Injection: 8/10/04 10:19 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



Software Version: 4.1<2F12>
Date: 8/11/04 08:46 AM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC17\CHA\223A016.RAW Date: 8/10/04 10:15 PM
Sequence File: G:\GC17\223.SEQ Cycle: 16 Channel : A
Instrument : GC17 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	20891755	801.26	801.2617	1.00	1.00	801.2617
JP5:10-16	20891755	1126.41	1126.4053	1.00	1.00	1126.4053
JP8:10-16	20891755	1092.91	1092.9096	1.00	1.00	1092.9096
KER:10-16	20891755	2.09e-06	2.0892e-06	1.00	1.00	2.0892e-06
DSL:10-20	28941835	1020.08	1020.0818	1.00	1.00	1020.0818
DSL:10-22	29747087	1009.61	1009.6079	1.00	1.00	1009.6079
DSL:10-24	29972523	1005.30	1005.3011	1.00	1.00	1005.3011
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	24676305	2.47e-06	2.4676e-06	1.00	1.00	2.4676e-06
DSL:12-22	24676305	1005.21	1005.2058	1.00	1.00	1005.2058
DSL:10-28	31703346	1060.78	1060.7847	1.00	1.00	1060.7847
DSL:12-24	24901741	1000.11	1000.1108	1.00	1.00	1000.1108
DSL:12-32	26637629	1063.89	1063.8904	1.00	1.00	1063.8904
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	26670825	2.67e-06	2.6671e-06	1.00	1.00	2.6671e-06
HYFL:12-40	26670825	844.37	844.3731	1.00	1.00	844.3731
BUNKC:12-40	26670825	2308.09	2308.0915	1.00	1.00	2308.0915
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1961324	83.77	83.7719	1.00	1.00	83.7719
MO:20-36	2770377	96.60	96.5952	1.00	1.00	96.5952
MO:22-36	1965125	74.88	74.8780	1.00	1.00	74.8780
MO:24-36	1739689	80.62	80.6193	1.00	1.00	80.6193
BUNKC:12-50	26746260	2104.27	2104.2728	1.00	1.00	2104.2728
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

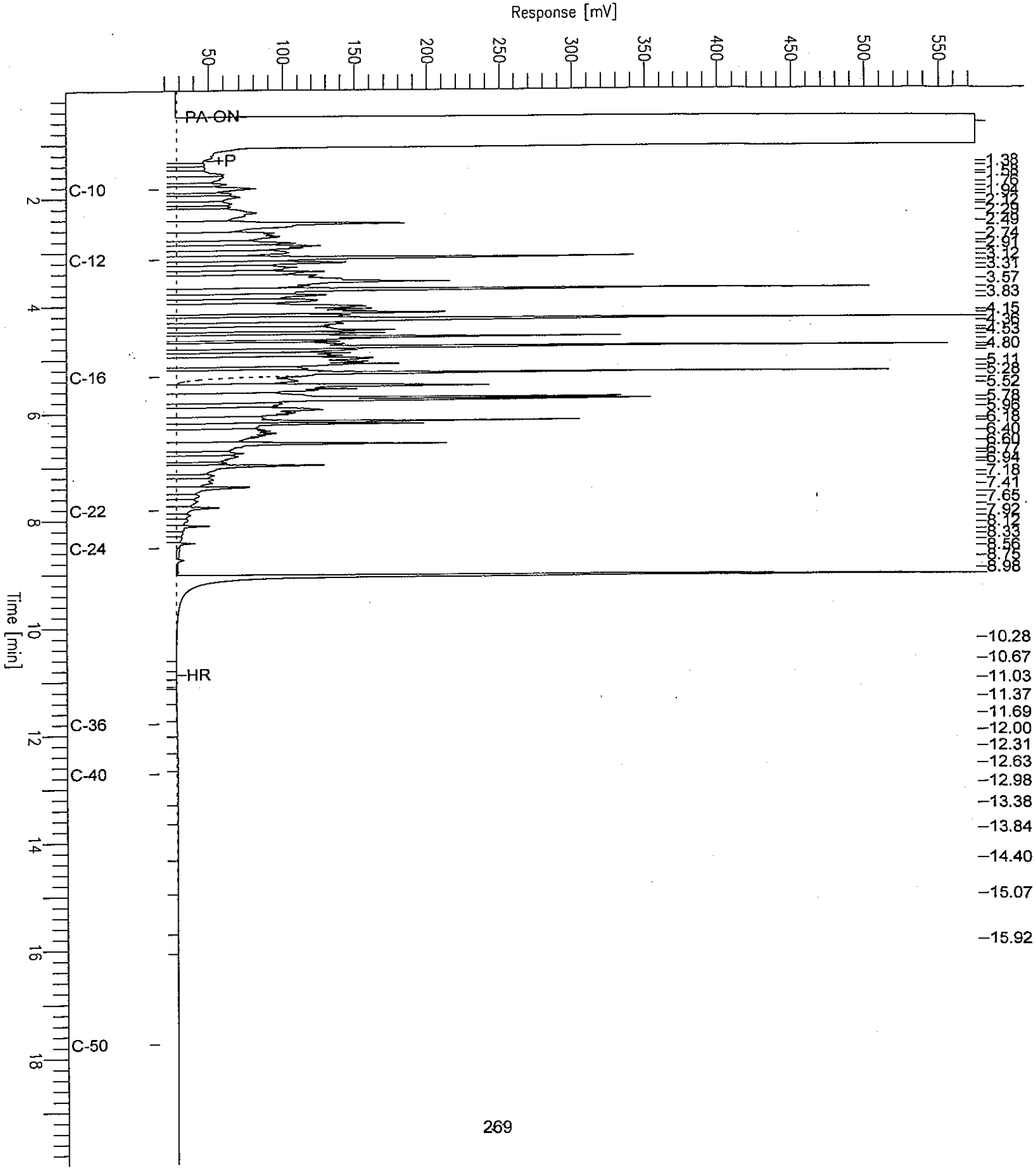
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A016P.TXO

Chromatogram

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC17\CHA\223A016.RAW
Method : ATEH212.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #: 1000mg/L
Date : 8/11/04 08:46 AM
Time of Injection: 8/10/04 10:15 PM
Low Point : 16.29 mV High Point : 574.91 mV
Plot Scale: 558.6 mV



Software Version: 4.1<2F12>
Date: 8/10/04 10:35 PM
Sample Name : ccv,04ws1324,dsl
Data File : G:\GC17\CHA\223A016.RAW Date: 8/10/04 10:15 PM
Sequence File: G:\GC17\223.SEQ Cycle: 16 Channel : A
Instrument : GC17 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1590471	50.31	50.3055			9.077	100.6110

CURTIS & TOMPKINS,LTD. BERKELEY

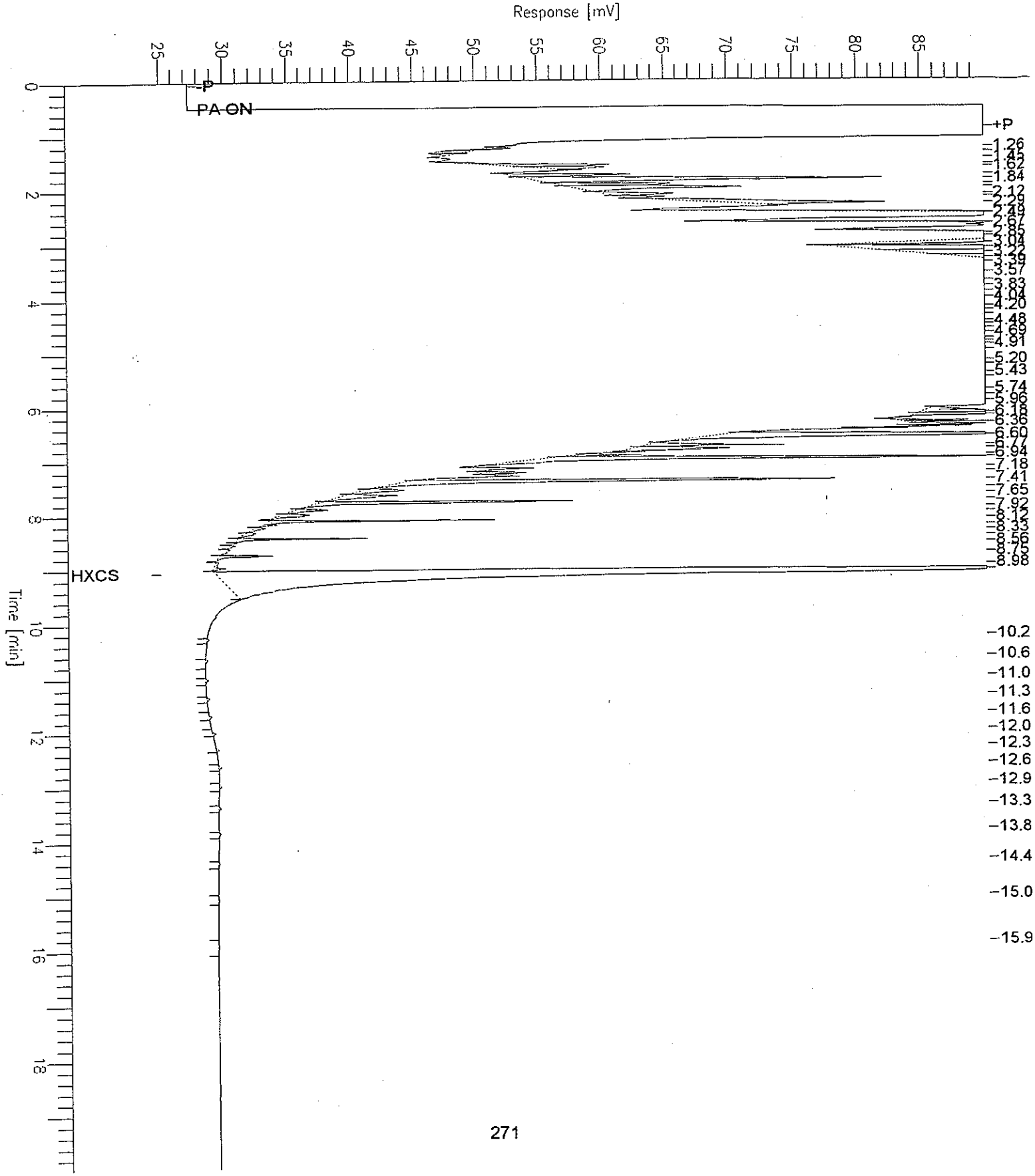
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A016.TX0

Chromatogram

Sample Name : ccv,04ws1324,dsl
FileName : G:\GC17\CHA\223A016.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 1000mg/L
Date : 8/10/04 10:35 PM
Time of Injection: 8/10/04 10:15 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



CONTINUING CALIBRATION SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114321683017	10-AUG-2004 23:15	114295755001	23-JUL-2004	17542	18392	500.00	524.24	mg/L	5	15	
GC11A	A	114321683031	11-AUG-2004 05:59	114295755001	23-JUL-2004	17542	18032	500.00	513.95	mg/L	3	15	
GC17A	A	174321682004	10-AUG-2004 10:48	174110421005	17-MAR-2004	21579	20627	500.00	477.94	mg/L	-4	15	
GC17A	A	174321682017	10-AUG-2004 22:43	174110421005	17-MAR-2004	21579	21749	500.00	503.94	mg/L	1	15	

Software Version: 4.1<2F12>
Date: 8/11/04 08:14 AM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC11\CHA\223A017.RAW Date: 8/10/04 11:15 PM
Sequence File: G:\GC11\223.SEQ Cycle: 17 Channel : A
Instrument : GC11 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	162	0.00	0.0049	1.00	1.00	0.0049
JP5:10-16	162	0.01	0.0078	1.00	1.00	0.0078
JETA:10-16	162	0.01	0.0084	1.00	1.00	0.0084
JP8:10-16	162	0.01	0.0086	1.00	1.00	0.0086
DSL:10-22	1865986	71.34	71.3413	1.00	1.00	71.3413
GAIAFP:10-24	4170902	98.53	98.5306	1.00	1.00	98.5306
DSL:10-24	4170902	158.48	158.4773	1.00	1.00	158.4773
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1865986	84.66	84.6608	1.00	1.00	84.6608
DSL:10-28	10596547	401.85	401.8450	1.00	1.00	401.8450
DSL:12-24	4170902	187.85	187.8479	1.00	1.00	187.8479
RRFPLH:16-24	4170740	603.61	603.6083	1.00	1.00	603.6083
CRUDE:10-40	14809117	14.81	14.8091	1.00	1.00	14.8091
TRIMSOL:12-36	14809117	601.86	601.8625	1.00	1.00	601.8625
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	14809117	746.76	746.7630	1.00	1.00	746.7630
BUNKC:12-40	14809117	1916.72	1916.7162	1.00	1.00	1916.7162
TRANSOIL:12-40	14809117	317.78	317.7836	1.00	1.00	317.7836
MO:22-32	11519185	582.28	582.2757	1.00	1.00	582.2757
MO:20-36	14412549	587.45	587.4500	1.00	1.00	587.4500
MO:22-36	12943130	590.85	590.8516	1.00	1.00	590.8516
HYFL:24-36	10638214	744.39	744.3854	1.00	1.00	744.3854
TPHHF:24-36	10638214	1.06e-06	1.0638e-06	1.00	1.00	1.0638e-06
MO:24-36	10638214	606.44	606.4387	1.00	1.00	606.4387
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

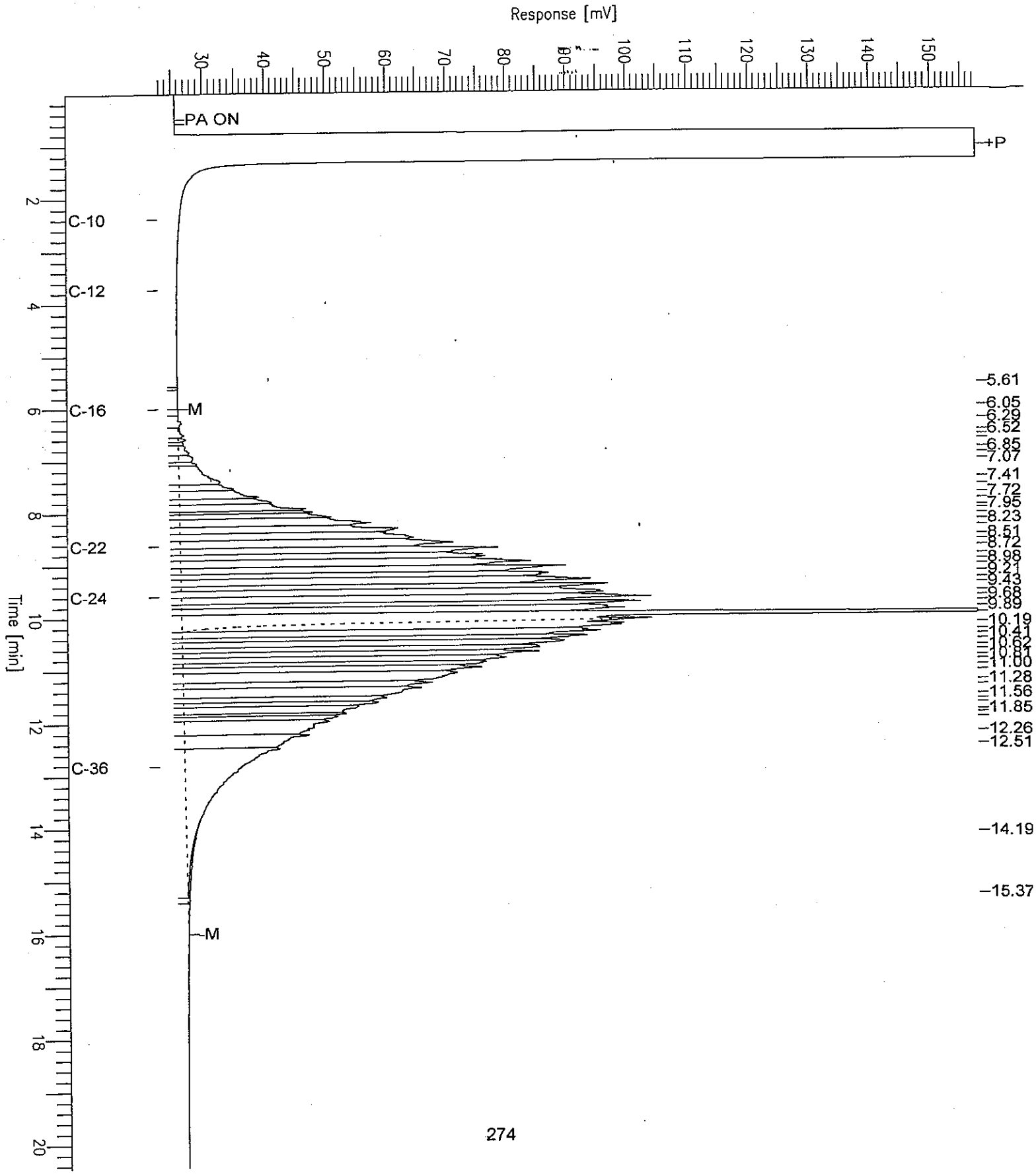
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A017P.TXO

Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC11\CHA\223A017.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 500mg/l
Date : 8/11/04 08:14 AM
Time of Injection: 8/10/04 11:15 PM
Low Point : 22.80 mV High Point : 157.49 mV
Plot Scale: 134.7 mV



Software Version: 4.1<2F12>
Date: 8/10/04 11:35 PM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC11\CHA\223A017.RAW Date: 8/10/04 11:15 PM
Sequence File: G:\GC11\223.SEQ Cycle: 17 Channel : A
Instrument : GC11 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1442020	51.72	51.7195			10.010	103.4390

CURTIS & TOMPKINS,LTD. BERKELEY

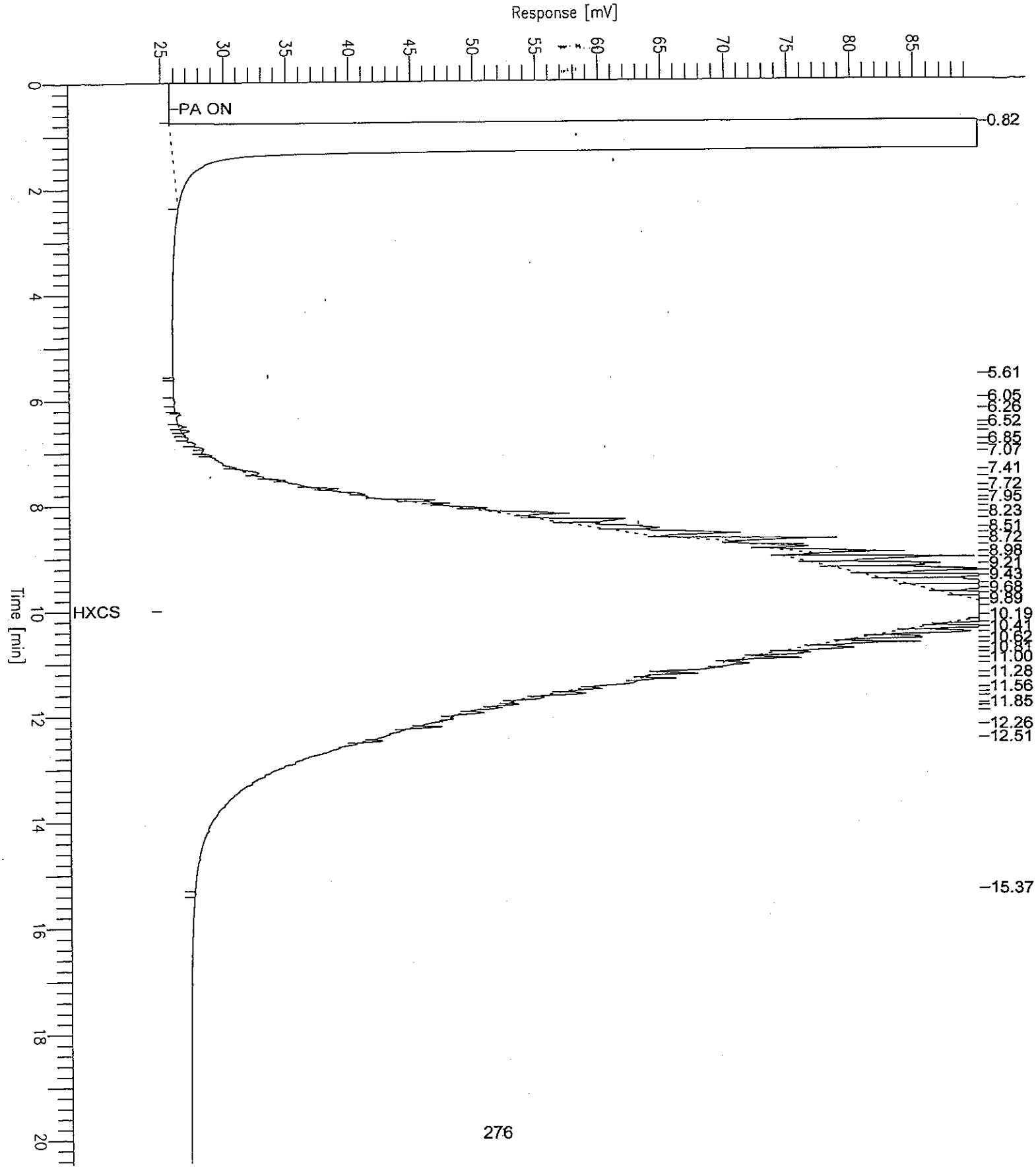
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A017.TX0

Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC11\CHA\223A017.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/l
Date : 8/10/04 11:35 PM
Time of Injection: 8/10/04 11:15 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 08:22 AM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC11\CHA\223A031.RAW Date: 8/11/04 05:59 AM
Sequence File: G:\GC11\223.SEQ Cycle: 31 Channel : A
Instrument : GC11 Rack/Vial: 0/31 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	136	0.00	0.0041	1.00	1.00	0.0041
JP5:10-16	136	0.01	0.0065	1.00	1.00	0.0065
JETA:10-16	136	0.01	0.0070	1.00	1.00	0.0070
JP8:10-16	136	0.01	0.0071	1.00	1.00	0.0071
DSL:10-22	1880749	71.91	71.9058	1.00	1.00	71.9058
GAIAFP:10-24	4258853	100.61	100.6083	1.00	1.00	100.6083
DSL:10-24	4258853	161.82	161.8191	1.00	1.00	161.8191
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1880749	85.33	85.3306	1.00	1.00	85.3306
DSL:10-28	10760580	408.07	408.0656	1.00	1.00	408.0656
DSL:12-24	4258853	191.81	191.8090	1.00	1.00	191.8090
RRFPLH:16-24	4258717	616.34	616.3408	1.00	1.00	616.3408
CRUDE:10-40	14851565	14.85	14.8516	1.00	1.00	14.8516
TRIMSOL:12-36	14851565	603.59	603.5877	1.00	1.00	603.5877
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	14851565	748.90	748.9035	1.00	1.00	748.9035
BUNKC:12-40	14851565	1922.21	1922.2103	1.00	1.00	1922.2103
TRANSOIL:12-40	14851565	318.69	318.6945	1.00	1.00	318.6945
MO:22-32	11592758	585.99	585.9947	1.00	1.00	585.9947
MO:20-36	14443509	588.71	588.7119	1.00	1.00	588.7119
MO:22-36	12970816	592.12	592.1154	1.00	1.00	592.1154
HYFL:24-36	10592713	741.20	741.2015	1.00	1.00	741.2015
TPHHF:24-36	10592713	1.06e-06	1.0593e-06	1.00	1.00	1.0593e-06
MO:24-36	10592713	603.84	603.8448	1.00	1.00	603.8448
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

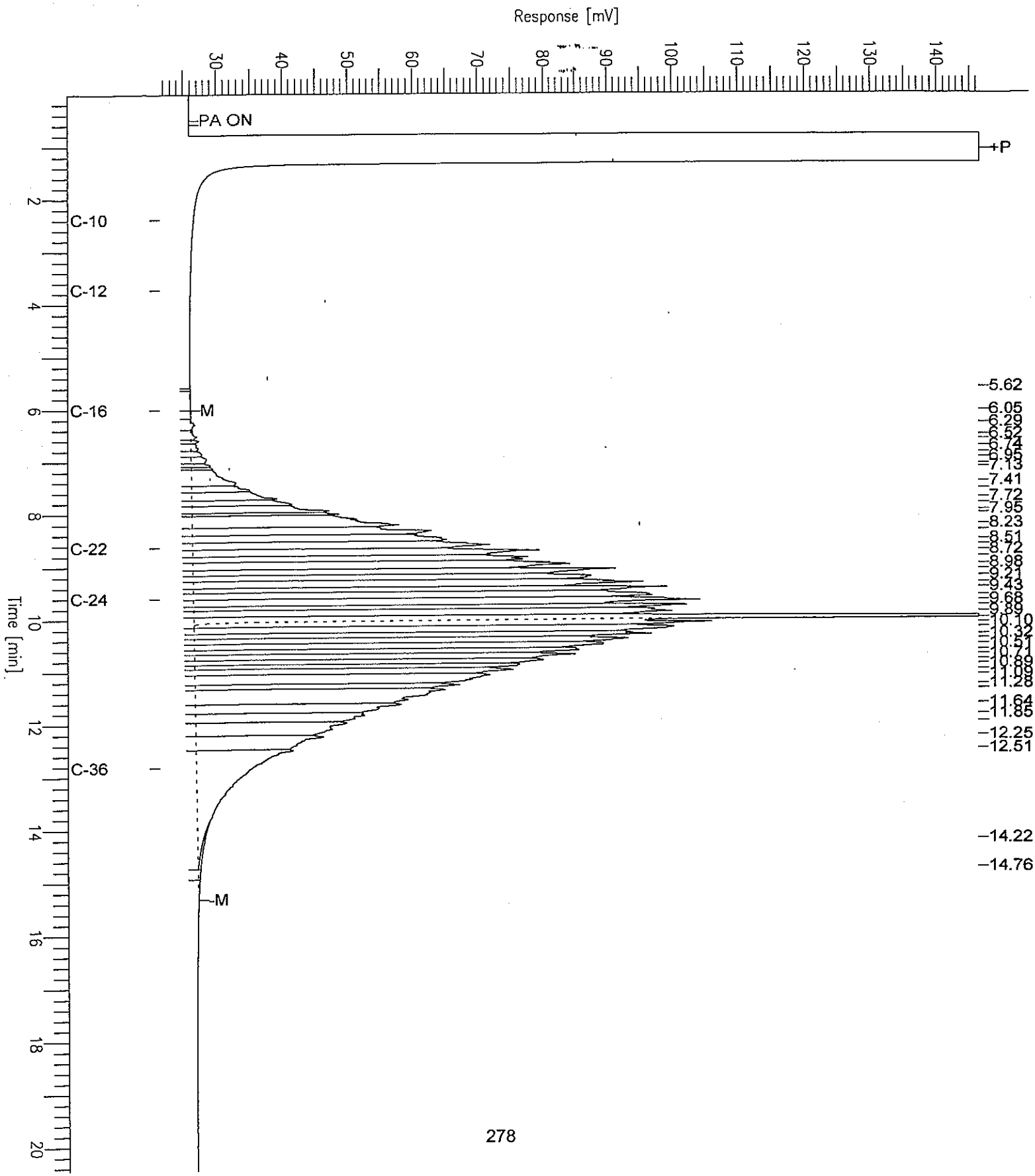
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A031P.TXO

Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC11\CHA\223A031.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 21 mV

Sample #: 500mg/L
Date : 8/11/04 08:22 AM
Time of Injection: 8/11/04 05:59 AM
Low Point : 21.46 mV High Point : 146.54 mV
Plot Scale: 125.1 mV



Software Version: 4.1<2F12>
Date: 8/11/04 06:19 AM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC11\CHA\223A031.RAW Date: 8/11/04 05:59 AM
Sequence File: G:\GC11\223.SEQ Cycle: 31 Channel : A
Instrument : GC11 Rack/Vial: 0/31 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1576919	56.56	56.5578			10.010	113.1156

CURTIS & TOMPKINS,LTD. BERKELEY

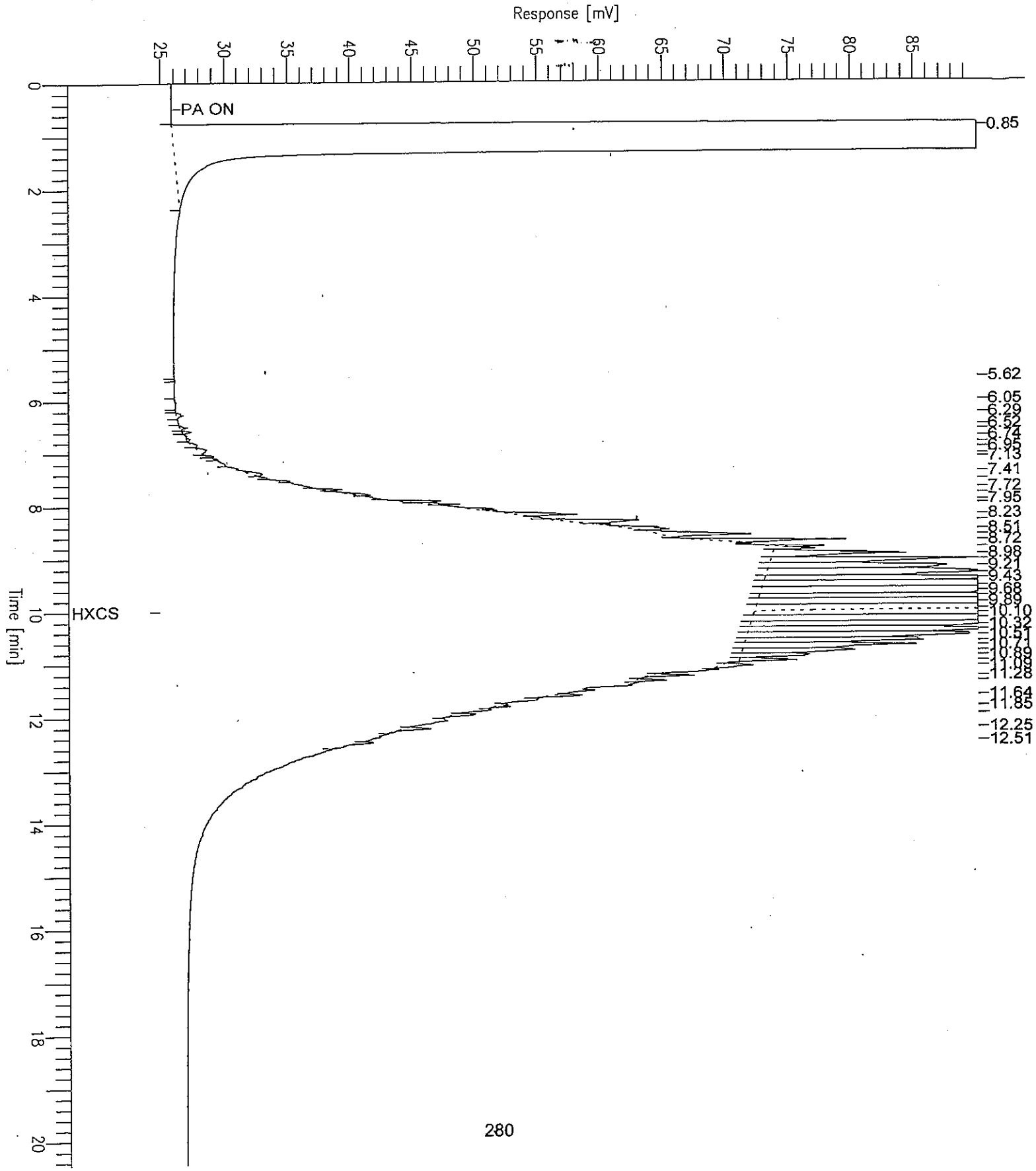
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\223A031.TXO

Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC11\CHA\223A031.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 8/11/04 06:19 AM
Time of Injection: 8/11/04 05:59 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/10/04 12:23 PM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC17\CHA\223A004.RAW Date: 8/10/04 10:48 AM
Sequence File: G:\GC17\223.SEQ Cycle: 4 Channel : A
Instrument : GC17 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	332	0.01	0.0127	1.00	1.00	0.0127
JP5:10-16	332	0.02	0.0179	1.00	1.00	0.0179
JP8:10-16	332	0.02	0.0174	1.00	1.00	0.0174
KER:10-16	332	3.32e-11	3.323e-11	1.00	1.00	3.323e-11
DSL:10-20	327488	11.54	11.5426	1.00	1.00	11.5426
DSL:10-22	1989327	67.52	67.5172	1.00	1.00	67.5172
DSL:10-24	4545630	152.46	152.4639	1.00	1.00	152.4639
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	1989145	1.99e-07	1.9891e-07	1.00	1.00	1.9891e-07
DSL:12-22	1989145	81.03	81.0291	1.00	1.00	81.0291
DSL:10-28	12029294	402.50	402.4967	1.00	1.00	402.4967
DSL:12-24	4545448	182.56	182.5556	1.00	1.00	182.5556
DSL:12-32	15105397	603.30	603.3002	1.00	1.00	603.3002
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	17088401	1.71e-06	1.7088e-06	1.00	1.00	1.7088e-06
HYFL:12-40	17088401	541.00	541.0026	1.00	1.00	541.0026
BUNKC:12-40	17088401	1478.83	1478.8291	1.00	1.00	1478.8291
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	13116252	560.22	560.2201	1.00	1.00	560.2201
MO:20-36	16115268	561.89	561.8935	1.00	1.00	561.8935
MO:22-36	14453429	550.72	550.7250	1.00	1.00	550.7250
MO:24-36	11897126	551.33	551.3271	1.00	1.00	551.3271
BUNKC:12-50	17370014	1366.59	1366.5929	1.00	1.00	1366.5929
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

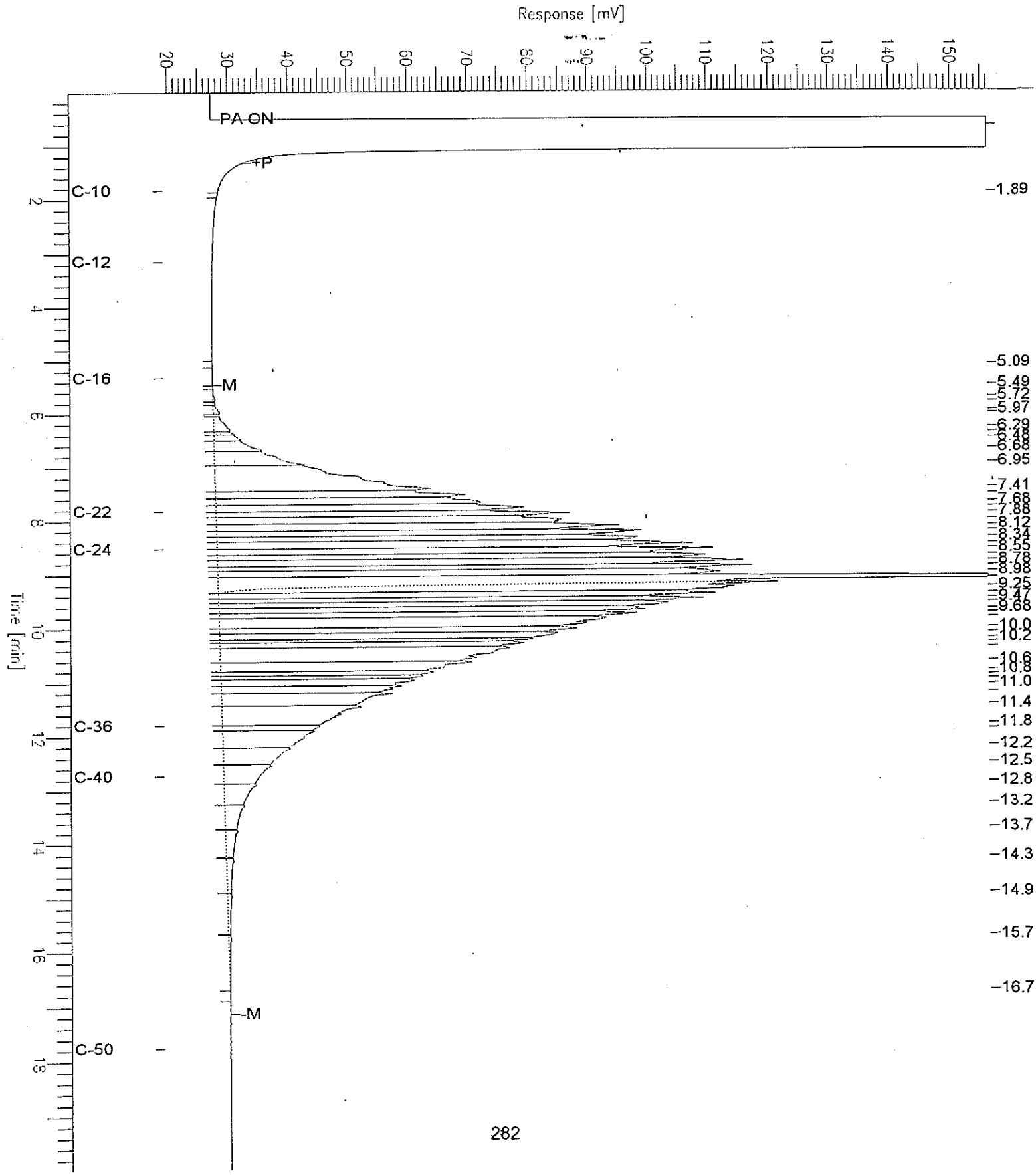
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A004P.TXO

Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC17\CHA\223A004.RAW
Method : ATEH212.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 500mg/L
Date : 8/10/04 12:23 PM
Time of Injection: 8/10/04 10:48 AM
Low Point : 19.30 mV High Point : 156.11 mV
Plot Scale: 136.8 mV



Software Version: 4.1<2F12>
Date: 8/10/04 12:20 PM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC17\CHA\223A004.RAW Date: 8/10/04 10:48 AM
Sequence File: G:\GC17\223.SEQ Cycle: 4 Channel : A
Instrument : GC17 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1583546	50.09	50.0865			9.091	100.1730

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

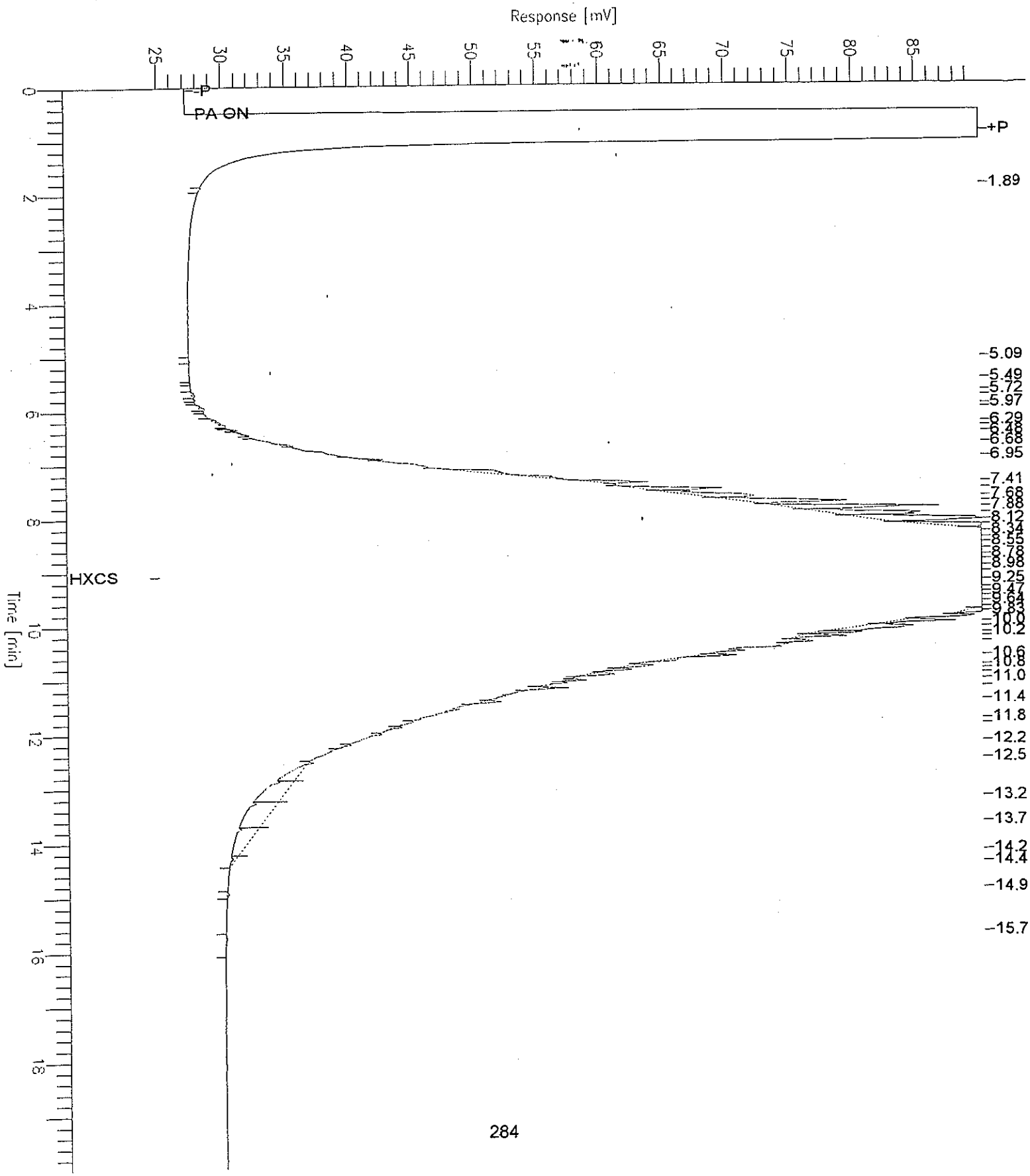
Report stored in ASCII file: G:\GC17\CHA\223A004.TXO

Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC17\CHA\223a004.raw
Method : 20mina
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 8/10/04 12:20 PM
Time of Injection: 8/10/04 10:48 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/11/04 08:47 AM 42 LV. 8/11/04
Sample Name : ccv,04ws1245,mo
Data File : G:\GC17\CHA\223A017.RAW Date: 8/10/04 10:43 PM
Sequence File: G:\GC17\223.SEQ Cycle: 17 Channel : A
Instrument : GC17 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	556	0.02	0.0213	1.00	1.00	0.0213
JP5:10-16	556	0.03	0.0300	1.00	1.00	0.0300
JP8:10-16	556	0.03	0.0291	1.00	1.00	0.0291
KER:10-16	556	5.56e-11	5.560e-11	1.00	1.00	5.560e-11
DSL:10-20	350730	12.36	12.3618	1.00	1.00	12.3618
DSL:10-22	2046831	69.47	69.4689	1.00	1.00	69.4689
DSL:10-24	4611477	154.67	154.6724	1.00	1.00	154.6724
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	2046514	2.05e-07	2.0465e-07	1.00	1.00	2.0465e-07
DSL:12-22	2046514	83.37	83.3661	1.00	1.00	83.3661
DSL:10-28	12302657	411.64	411.6433	1.00	1.00	411.6433
DSL:12-24	4611159	185.19	185.1947	1.00	1.00	185.1947
DSL:12-32	15525923	620.10	620.0957	1.00	1.00	620.0957
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	17432641	1.74e-06	1.7433e-06	1.00	1.00	1.7433e-06
HYFL:12-40	17432641	551.90	551.9010	1.00	1.00	551.9010
BUNKC:12-40	17432641	1508.62	1508.6197	1.00	1.00	1508.6197
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	13479409	575.73	575.7312	1.00	1.00	575.7312
MO:20-36	16772771	584.82	584.8188	1.00	1.00	584.8188
MO:22-36	15076670	574.47	574.4726	1.00	1.00	574.4726
MO:24-36	12512025	579.82	579.8222	1.00	1.00	579.8222
BUNKC:12-50	17666756	1389.94	1389.9391	1.00	1.00	1389.9391
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

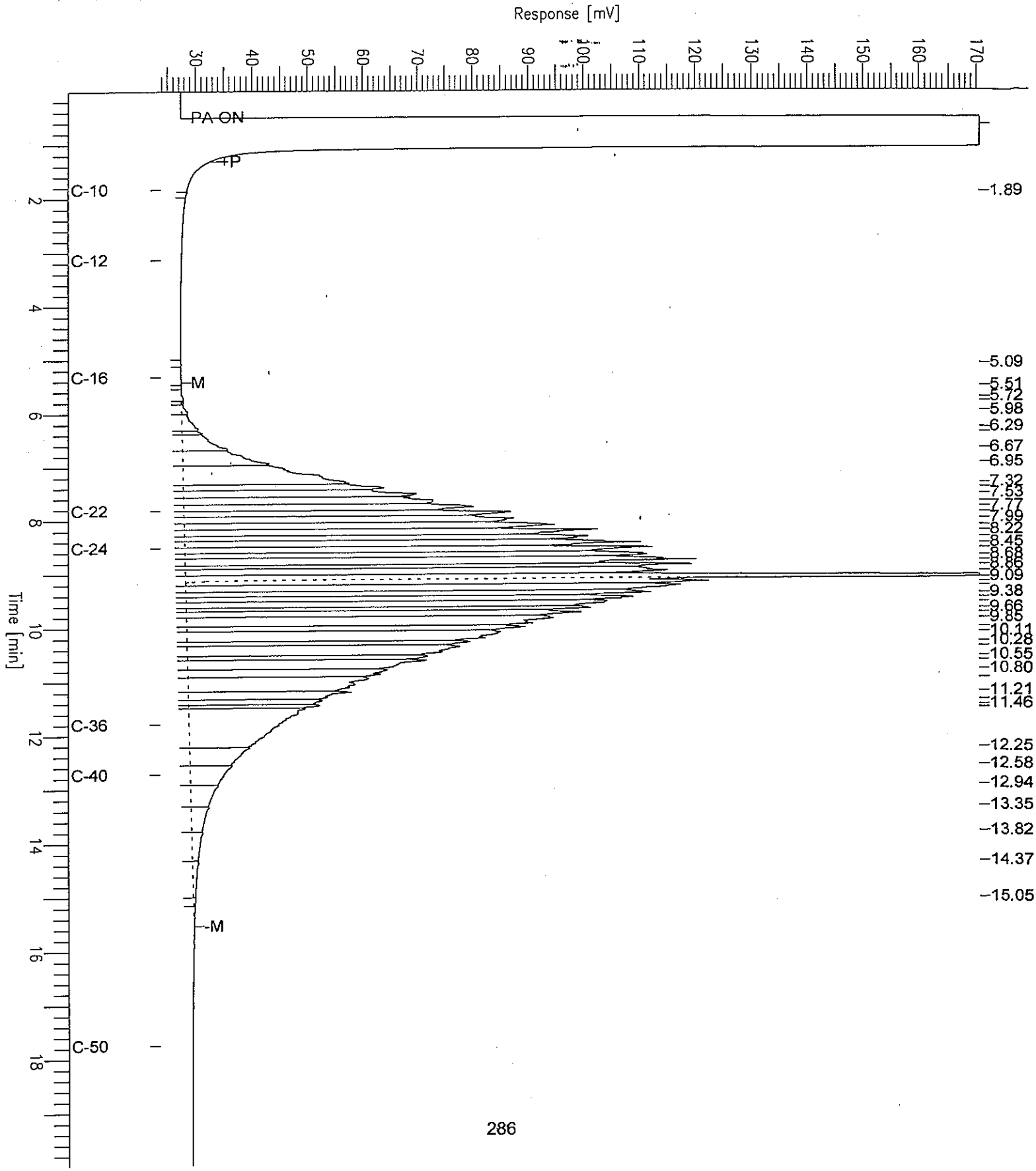
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A017P.TX0

Chromatogram

Sample Name : ccv,04ws1~~245~~42,mo 8/11/04
FileName : G:\GC17\CHA\223A017.RAW
Method : ATEH212.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 500mg/L Page 1 of 1
Date : 8/11/04 08:47 AM
Time of Injection: 8/10/04 10:43 PM
Low Point : 23.96 mV High Point : 170.49 mV
Plot Scale: 146.5 mV



Software Version: 4.1<2F12>
Date: 8/10/04 11:03 PM 42 CV. 8/11/04
Sample Name : ccv,04ws1245,mo
Data File : G:\GC17\CHA\223A017.RAW Date: 8/10/04 10:43 PM
Sequence File: G:\GC17\223.SEQ Cycle: 17 Channel : A
Instrument : GC17 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	1637368	51.79	51.7888		9.088	103.5776

CURTIS & TOMPKINS,LTD. BERKELEY

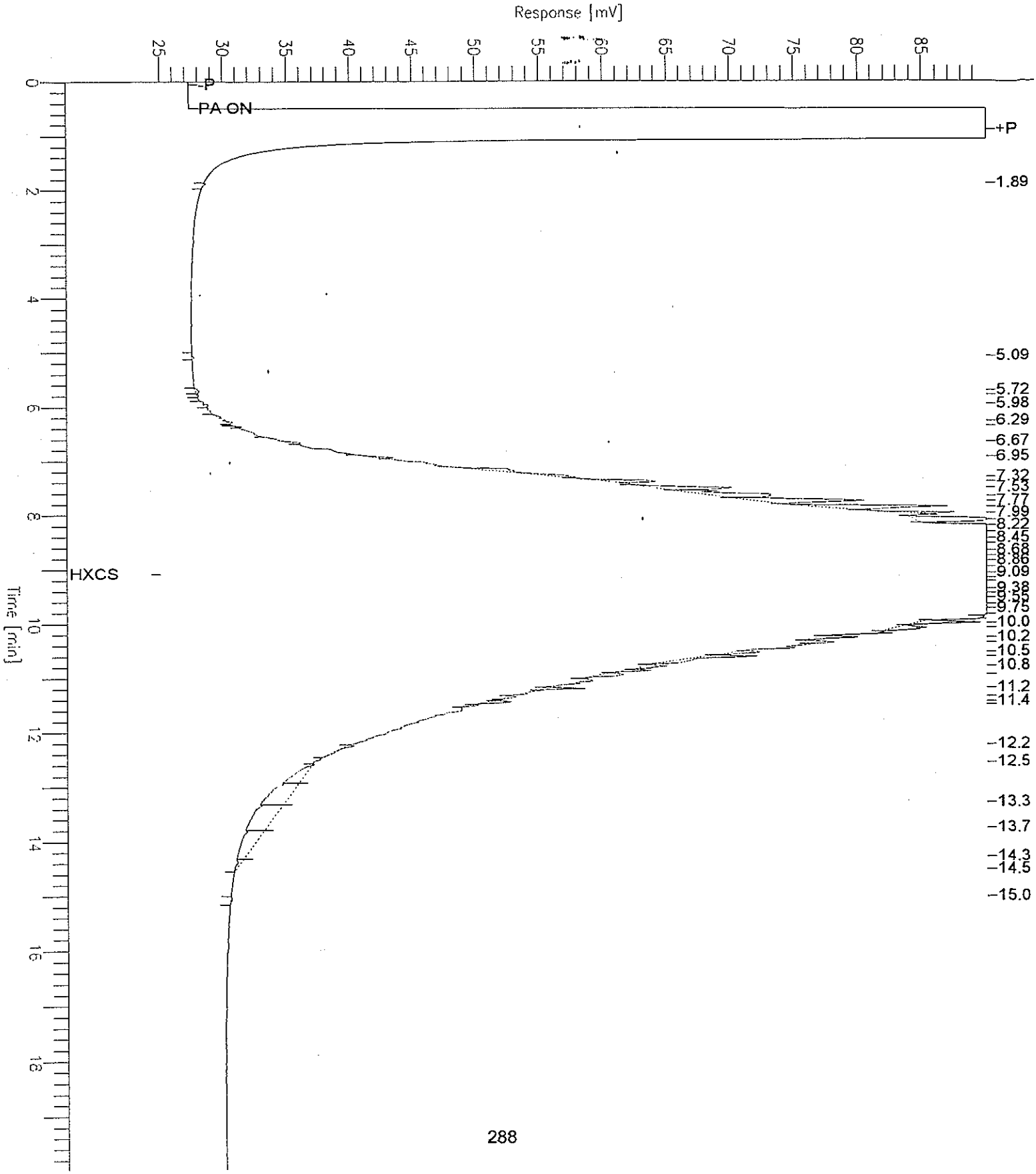
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\223A017.TXO

Chromatogram

Sample Name : ccv,04ws1~~245~~42,mo GV. 8/11/04
FileName : G:\GC17\CHA\223A017.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L Page 1 of 1
Date : 8/10/04 11:03 PM
Time of Injection: 8/10/04 10:43 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



CONTINUING CALIBRATION SUMMARY FOR 173857 TEH Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114321683016	10-AUG-2004 22:46	114301759001	27-JUL-2004	27882	29626	50.000	53.128	mg/L	6	15	
GC11A	A	114321683030	11-AUG-2004 05:30	114301759001	27-JUL-2004	27882	28222	50.000	50.611	mg/L	1	15	
GC11A	A	114321683041	11-AUG-2004 10:47	114301759001	27-JUL-2004	27882	28778	50.000	51.607	mg/L	3	15	
GC11A	A	114321683056	11-AUG-2004 21:20	114301759001	27-JUL-2004	27882	28334	50.000	50.812	mg/L	2	15	
GC15B	B	164321871003	10-AUG-2004 13:27	164283116004	14-JUL-2004	23609	22509	50.000	47.671	mg/L	-5	15	
GC15B	B	164321871012	10-AUG-2004 22:11	164283116004	14-JUL-2004	23609	23584	50.000	49.947	mg/L	0	15	
GC15B	B	164323165010	11-AUG-2004 14:22	164283116004	14-JUL-2004	23609	24066	50.000	50.968	mg/L	2	15	
GC15B	B	164323165020	11-AUG-2004 23:11	164283116004	14-JUL-2004	23609	24882	50.000	52.697	mg/L	5	15	
GC17A	A	174321682003	10-AUG-2004 10:19	174110421004	17-MAR-2004	31616	31824	50.000	50.328	mg/L	1	15	
GC17A	A	174321682016	10-AUG-2004 22:15	174110421004	17-MAR-2004	31616	31809	50.000	50.306	mg/L	1	15	

Software Version: 4.1<2F12>
Date: 8/11/04 04:22 PM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC15\CHB\224B010.RAW Date: 8/11/04 02:22 PM
Sequence File: G:\GC15\224.SEQ Cycle: 10 Channel : B
Instrument : GC15 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.548		0	0.00	1.0000	0.0000	1.0000	0.0000
C12	3.831		0	0.00	1.0000	0.0000	1.0000	0.0000
JETA:10-16	4.305		397	0.02	1.0000	0.0220	1.0000	0.0220
JP8:10-16	4.305		397	0.03	1.0000	0.0254	1.0000	0.0254
JP5:10-16	4.305		397	0.02	1.0000	0.0196	1.0000	0.0196
KER:10-16	4.305		397	3.97e-09	1.0000	3.9663e-09	1.0000	3.9663e-09
DSL:10-20	5.192		253782	12.40	1.0000	12.3975	1.0000	12.3975
DSL:10-22	5.576		1484583	70.78	1.0000	70.7828	1.0000	70.7828
DSL:10-24	5.931		3344702	158.36	1.0000	158.3585	1.0000	158.3585
GAIAFP:10-24	5.931		3344702	3.34e-05	1.0000	0.0000	1.0000	0.0000
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		1484583	83.24	1.0000	83.2389	1.0000	83.2389
TROIL:12-22	6.226		1484583	1.48e-06	1.0000	1.4846e-06	1.0000	1.4846e-06
DSL:10-28	6.562		8546331	404.02	1.0000	404.0242	1.0000	404.0242
DSL:12-24	6.581		3344702	186.00	1.0000	185.9974	1.0000	185.9974
DSL:12-32	7.763		10989618	610.01	1.0000	610.0078	1.0000	610.0078
CRUDE:10-40	8.255		12167476	427.98	1.0000	427.9797	1.0000	427.9797
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		12167476	1.22e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.905		12167476	1.22e-04	1.0000	0.0001	1.0000	0.0001
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		9505035	613.36	1.0000	613.3646	1.0000	613.3646
MO:20-36	10.262		11913693	639.53	1.0000	639.5287	1.0000	639.5287
MO:22-36	10.646		10682893	634.61	1.0000	634.6129	1.0000	634.6129
TPHHF:24-36	11.002		8822774	8.82e-06	1.0000	8.8228e-06	1.0000	8.8228e-06
MO:24-36	11.002		8822774	664.20	1.0000	664.2038	1.0000	664.2038
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			120528768					4504.5639

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\224B010P.TXO

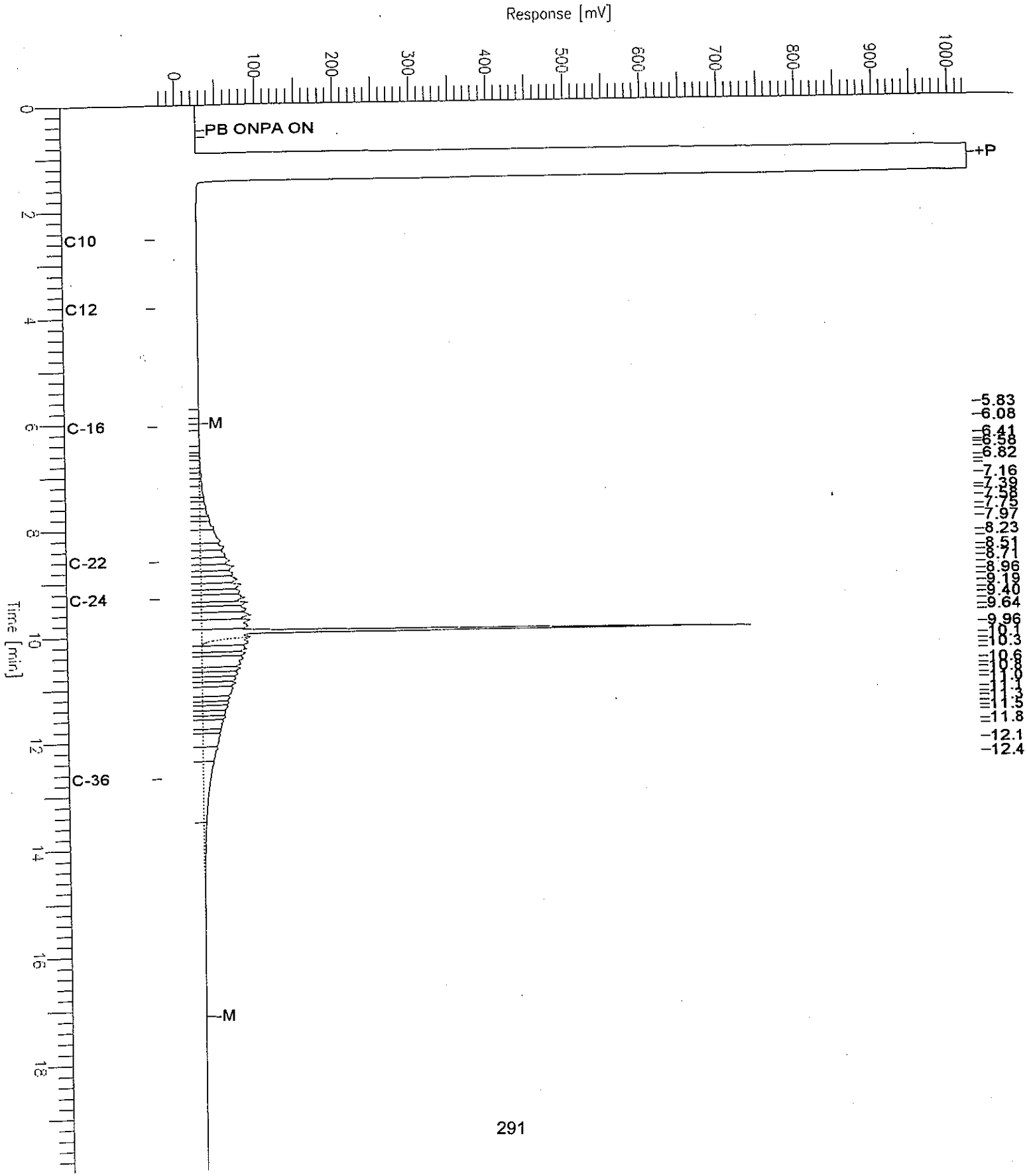
Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC15\CHB\224B010.RAW
Method :
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: -27 mV

Sample #: 500mg/L
Date : 8/11/04 04:14 PM
Time of Injection: 8/11/04 02:22 PM
Low Point : -26.50 mV
Plot Scale: 1050.5 mV

High Point : 1024.00 mV



Software Version: 4.1<2F12>
Date: 8/11/04 04:14 PM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC15\CHB\224B010.RAW Date: 8/11/04 02:22 PM
Sequence File: G:\GC15\224.SEQ Cycle: 10 Channel : B
Instrument : GC15 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1203287	50.97	50.9684		9.957	101.9367	1.0000
		50.97					

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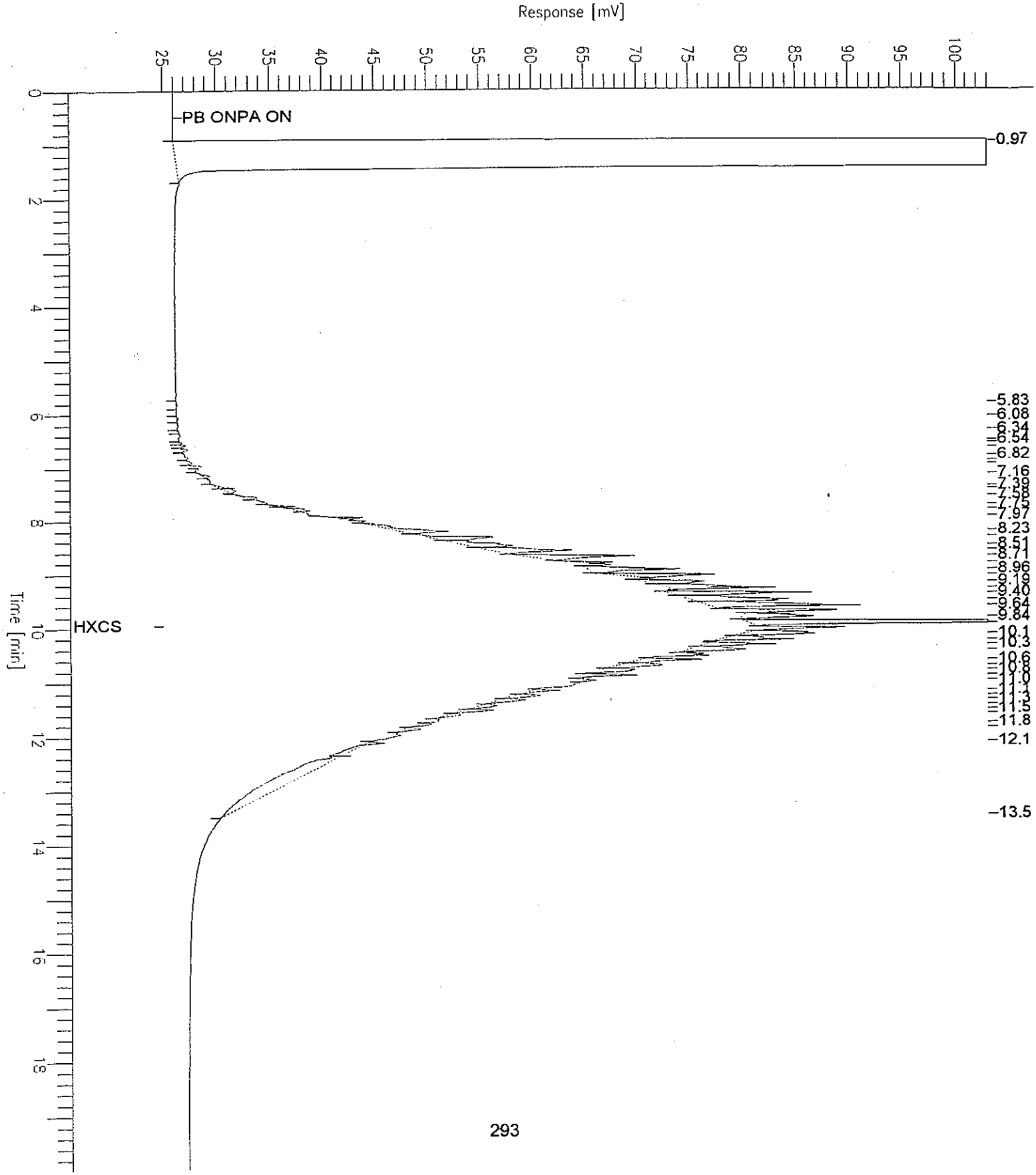
Report stored in ASCII file: G:\GC15\CHB\224B010.TXO

GC15 Channel B Surrogate

Sample Name : ccv,04ws1425,mo
FileName : G:\GC15\CHB\224b010.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L Page 1 of 1
Date : 8/11/04 04:14 PM
Time of Injection: 8/11/04 02:22 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 8/12/04 08:42 AM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC15\CHB\224B020.RAW Date: 8/11/04 11:11 PM
Sequence File: G:\GC15\224.SEQ Cycle: 20 Channel : B
Instrument : GC15 Rack/Vial: 0/20 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.548		0	0.00	1.0000	0.0000	1.0000	0.0000
C12	3.831		0	0.00	1.0000	0.0000	1.0000	0.0000
JETA:10-16	4.305		298	0.02	1.0000	0.0166	1.0000	0.0166
JP8:10-16	4.305		298	0.02	1.0000	0.0191	1.0000	0.0191
JP5:10-16	4.305		298	0.01	1.0000	0.0148	1.0000	0.0148
KER:10-16	4.305		298	2.98e-09	1.0000	2.9843e-09	1.0000	2.9843e-09
DSL:10-20	5.192		284516	13.90	1.0000	13.8989	1.0000	13.8989
DSL:10-22	5.576		1211473	57.76	1.0000	57.7613	1.0000	57.7613
DSL:10-24	5.931		3351002	158.66	1.0000	158.6568	1.0000	158.6568
GAIAFP:10-24	5.931		3351002	3.35e-05	1.0000	0.0000	1.0000	0.0000
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		1211473	67.93	1.0000	67.9259	1.0000	67.9259
TROIL:12-22	6.226		1211473	1.21e-06	1.0000	1.2115e-06	1.0000	1.2115e-06
DSL:10-28	6.562		8610494	407.06	1.0000	407.0575	1.0000	407.0575
DSL:12-24	6.581		3351002	186.35	1.0000	186.3478	1.0000	186.3478
DSL:12-32	7.763		10969271	608.88	1.0000	608.8784	1.0000	608.8784
CRUDE:10-40	8.255		11970494	421.05	1.0000	421.0510	1.0000	421.0510
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		11970494	1.20e-05	1.0000	0.0000	1.0000	0.0000
HYFL:12-40	8.905		11970494	1.20e-04	1.0000	0.0001	1.0000	0.0001
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		9757798	629.68	1.0000	629.6754	1.0000	629.6754
MO:20-36	10.262		11685978	627.30	1.0000	627.3048	1.0000	627.3048
MO:22-36	10.646		10759021	639.14	1.0000	639.1352	1.0000	639.1352
TPHHF:24-36	11.002		8619492	8.62e-06	1.0000	8.6195e-06	1.0000	8.6195e-06
MO:24-36	11.002		8619492	648.90	1.0000	648.9001	1.0000	648.9001
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			118906164					4466.6440

CURTIS & TOMPKINS,LTD. BERKELEY

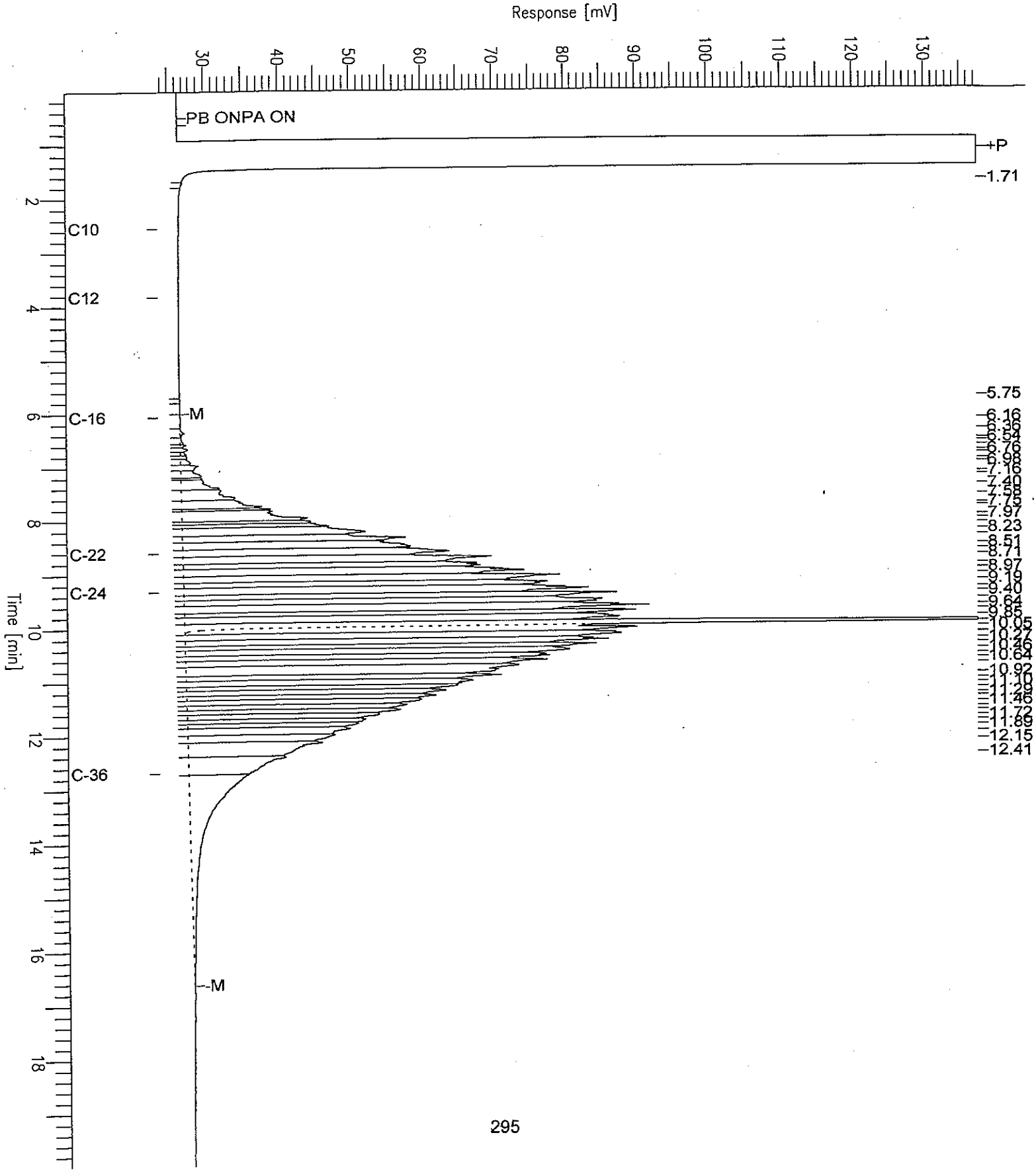
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\224B020P.TXO

Chromatogram

Sample Name : ccv,04ws1425,mo
FileName : G:\GC15\CHB\224B020.RAW
Method : BTEH224S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 500mg/L
Date : 8/12/04 08:42 AM
Time of Injection: 8/11/04 11:11 PM
Low Point : 23.64 mV High Point : 137.35 mV
Plot Scale: 113.7 mV



Software Version: 4.1<2F12>
Date: 8/11/04 11:31 PM
Sample Name : ccv,04ws1425,mo
Data File : G:\GC15\CHB\224B020.RAW Date: 8/11/04 11:11 PM
Sequence File: G:\GC15\224.SEQ Cycle: 20 Channel : B
Instrument : GC15 Rack/Vial: 0/20 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

TEH GC15 * Channel B *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Percent Recovery (%)	extraction factor (multiplier)
Hexacosane	1244096	52.70	52.6969			9.959	105.3939	1.0000
		52.70						

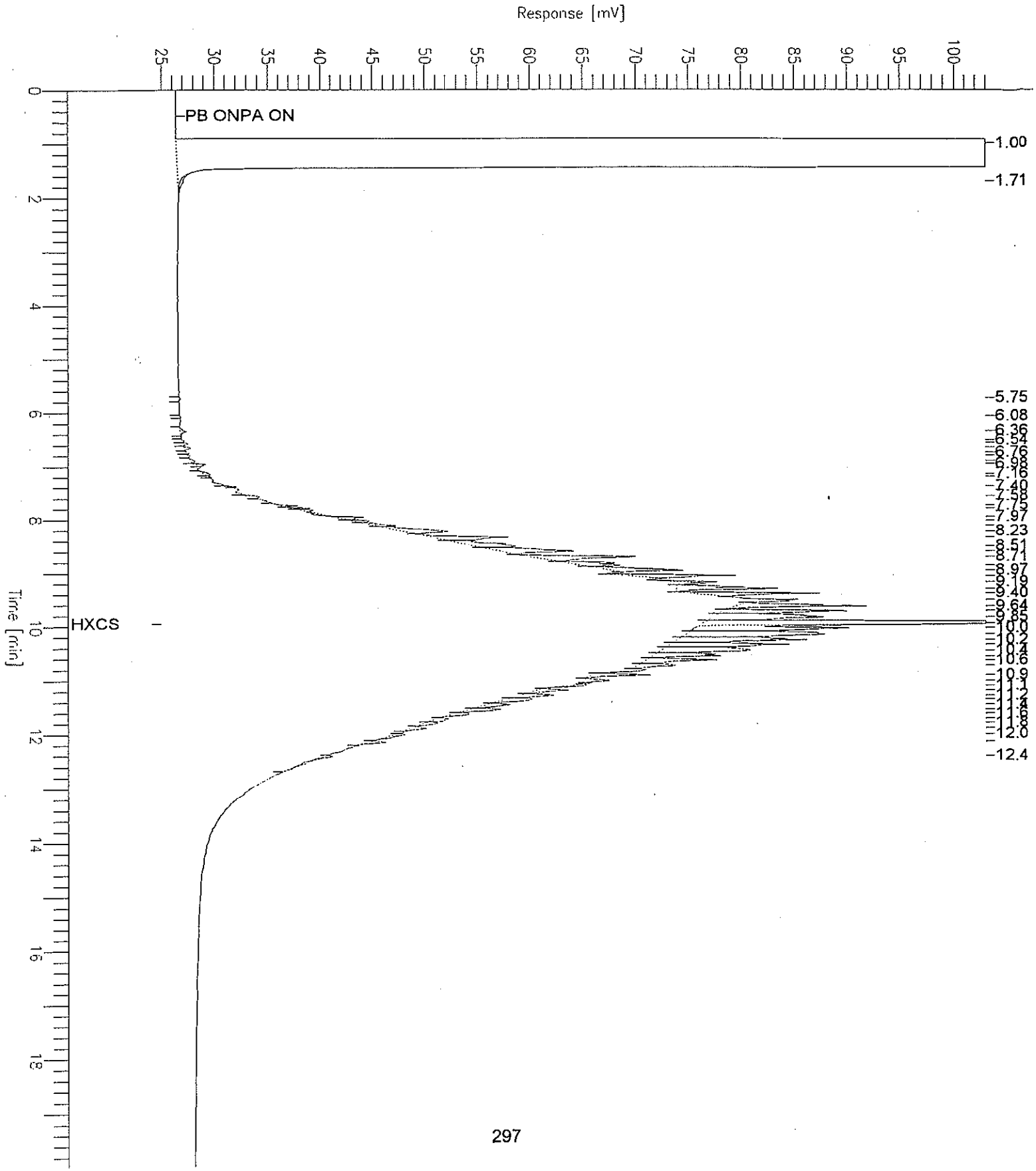
Curtis&Tompkins,Ltd. Berkeley,CA

Report stored in ASCII file: G:\GC15\CHB\224B020.TXO

GC15 Channel B Surrogate

Sample Name : ccv,04ws1425,mo
FileName : G:\GC15\CHB\224B020.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L Page 1 of 1
Date : 8/11/04 11:31 PM
Time of Injection: 8/11/04 11:11 PM
Low Point : 25.00 mV High Point : 103.00 mV
Plot Scale: 78.0 mV



Software Version: 4.1<2F12>
Date: 8/12/04 02:32 PM
Sample Name : ib
Data File : G:\GC15\CHB\223B002.RAW Date: 8/10/04 12:59 PM
Sequence File: G:\GC15\223.SEQ Cycle: 2 Channel : B
Instrument : GC15 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.548		0	0.00	1.0000	0.0000	1.0000	0.0000
C12	3.831		0	0.00	1.0000	0.0000	1.0000	0.0000
JETA:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
JP8:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
JP5:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
KER:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:10-20	5.192		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:10-22	5.576		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:10-24	5.931		0	0.00	1.0000	0.0000	1.0000	0.0000
GAIAFP:10-24	5.931		0	0.00	1.0000	0.0000	1.0000	0.0000
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		0	0.00	1.0000	0.0000	1.0000	0.0000
TROIL:12-22	6.226		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:10-28	6.562		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-24	6.581		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-32	7.763		1106	0.06	1.0000	0.0614	1.0000	0.0614
CRUDE:10-40	8.255		18008	0.63	1.0000	0.6334	1.0000	0.6334
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.905		18008	1.80e-08	1.0000	1.8008e-08	1.0000	1.8008e-08
HYFL:12-40	8.905		18008	1.80e-07	1.0000	1.8008e-07	1.0000	1.8008e-07
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		1106	0.07	1.0000	0.0714	1.0000	0.0714
MO:20-36	10.262		11241	0.60	1.0000	0.6034	1.0000	0.6034
MO:22-36	10.646		11241	0.67	1.0000	0.6677	1.0000	0.6677
TPHHF:24-36	11.002		11241	1.12e-08	1.0000	1.1241e-08	1.0000	1.1241e-08
MO:24-36	11.002		11241	0.85	1.0000	0.8462	1.0000	0.8462
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			101197					2.8835

CURTIS & TOMPKINS,LTD. BERKELEY

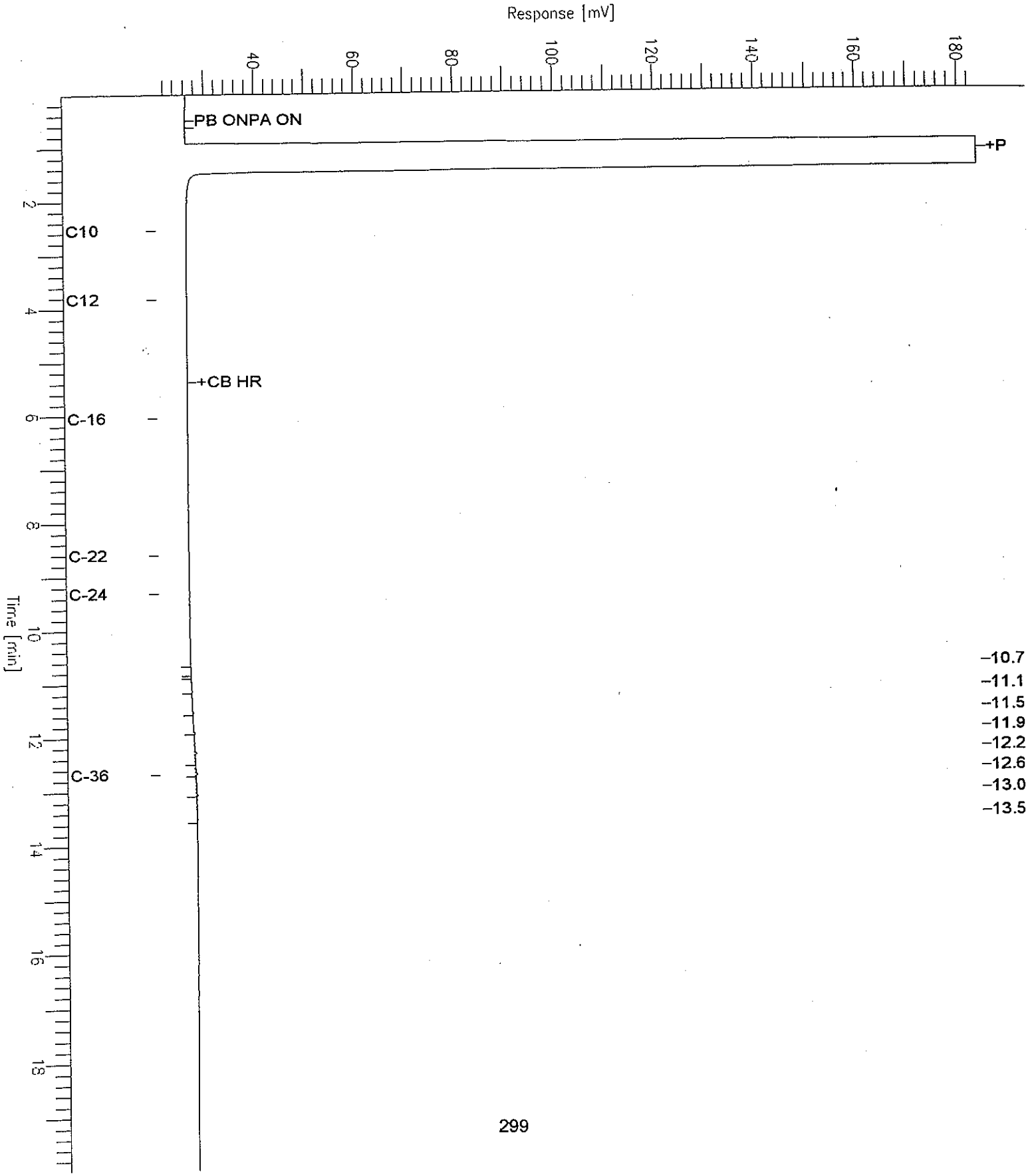
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC15\CHB\225B004P.TX0

Chromatogram

ample Name : ib
ileName : G:\GC15\CHB\223B002.RAW
ethod : BTEH224S.MTH
tart Time : 0.01 min End Time : 19.99 min
cale Factor: 0.0 Plot Offset: 21 mV

Sample #:
Date : 8/12/04 02:32 PM
Time of Injection: 8/10/04 12:59 PM
Low Point : 20.57 mV High Point : 183.83 mV
Plot Scale: 163.3 mV



Software Version: 4.1<2F12>
Date: 8/12/04 02:40 PM
Sample Name : ib
Data File : G:\GC15\CHB\224B002.RAW Date: 8/11/04 10:33 AM
Sequence File: G:\GC15\224.SEQ Cycle: 2 Channel : B
Instrument : GC15 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC15 * Channel B

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Adjusted Amount (mg/L)	extraction factor (multiplier)	Concentration (ug/L - mg/kg)
C10	2.548		0	0.00	1.0000	0.0000	1.0000	0.0000
C12	3.831		0	0.00	1.0000	0.0000	1.0000	0.0000
JETA:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
JP8:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
JP5:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
KER:10-16	4.305		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:10-20	5.192		435	0.02	1.0000	0.0212	1.0000	0.0212
DSL:10-22	5.576		713	0.03	1.0000	0.0340	1.0000	0.0340
DSL:10-24	5.931		2432	0.12	1.0000	0.1151	1.0000	0.1151
GAIAFP:10-24	5.931		2432	2.43e-08	1.0000	2.4316e-08	1.0000	2.4316e-08
C-16	6.063		0	0.00	1.0000	0.0000	1.0000	0.0000
DSL:12-22	6.226		713	0.04	1.0000	0.0400	1.0000	0.0400
TROIL:12-22	6.226		713	7.13e-10	1.0000	7.1335e-10	1.0000	7.1335e-10
DSL:10-28	6.562		3322	0.16	1.0000	0.1570	1.0000	0.1570
DSL:12-24	6.581		2432	0.14	1.0000	0.1352	1.0000	0.1352
DSL:12-32	7.762		5193	0.29	1.0000	0.2883	1.0000	0.2883
CRUDE:10-40	8.254		22924	0.81	1.0000	0.8063	1.0000	0.8063
C-22	8.604		0	0.00	1.0000	0.0000	1.0000	0.0000
BUNKC:12-40	8.904		22924	2.29e-08	1.0000	2.2924e-08	1.0000	2.2924e-08
HYFL:12-40	8.904		22924	2.29e-07	1.0000	2.2924e-07	1.0000	2.2924e-07
C-24	9.314		0	0.00	1.0000	0.0000	1.0000	0.0000
MO:22-32	10.141		4480	0.29	1.0000	0.2891	1.0000	0.2891
MO:20-36	10.262		10488	0.56	1.0000	0.5630	1.0000	0.5630
MO:22-36	10.646		10210	0.61	1.0000	0.6065	1.0000	0.6065
TPHHF:24-36	11.002		8492	8.49e-09	1.0000	8.4917e-09	1.0000	8.4917e-09
MO:24-36	11.002		8492	0.64	1.0000	0.6393	1.0000	0.6393
C-36	12.689		0	0.00	1.0000	0.0000	1.0000	0.0000
			129319					3.6952

CURTIS & TOMPKINS,LTD. BERKELEY

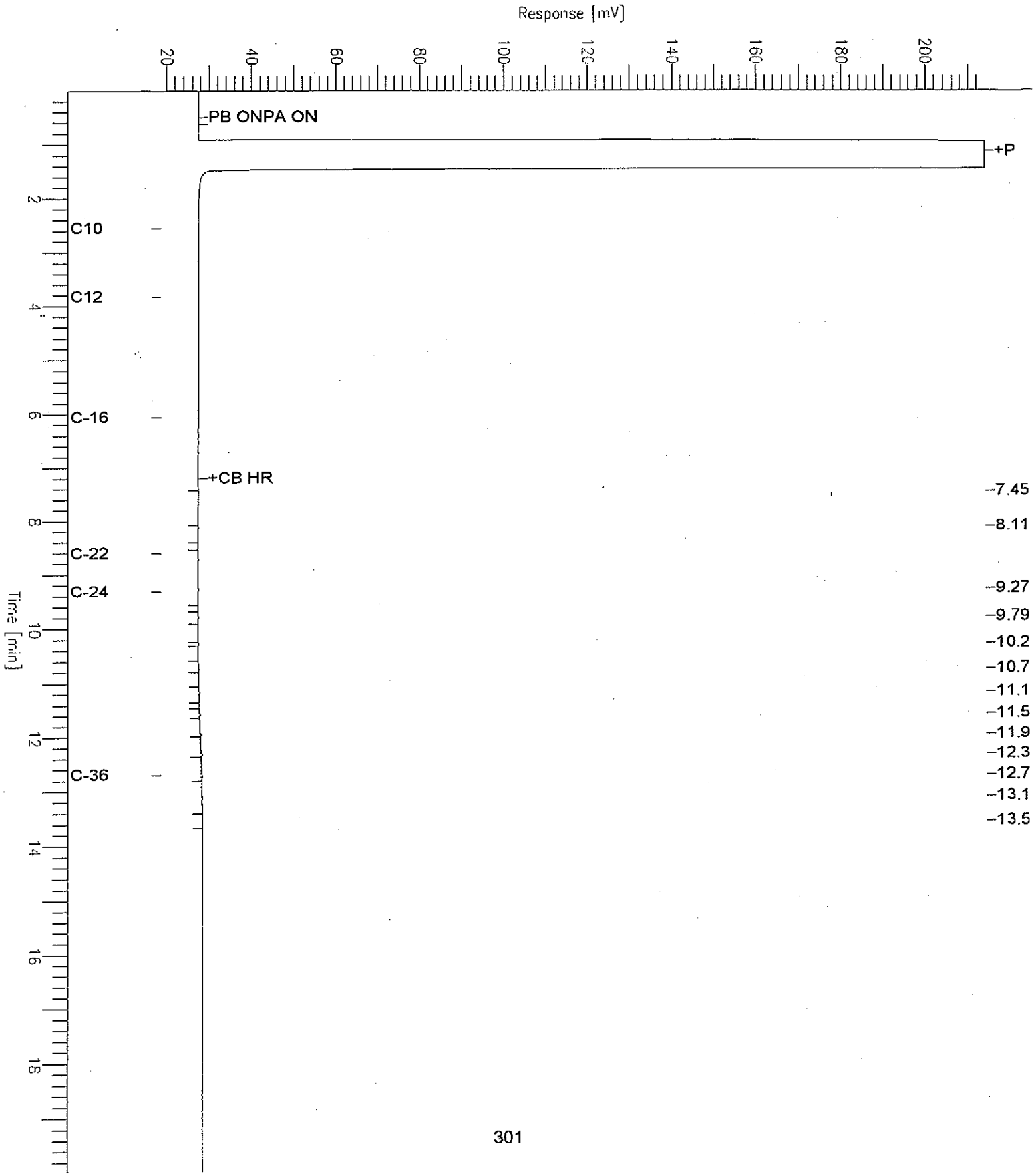
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: C:\WINDOWS\TEMP\~RST1D30.TX0

Chromatogram

Sample Name : ib
FileName : G:\GC15\CHB\224B002.RAW
Method : BTEH224S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: Page 1 of 1
Date : 8/12/04 02:33 PM
Time of Injection: 8/11/04 10:33 AM
Low Point : 18.70 mV High Point : 213.95 mV
Plot Scale: 195.2 mV



Software Version: 4.1<2F12>
Date: 8/12/04 02:38 PM
Sample Name : ib
Data File : G:\GC17\CHA\223A002.RAW Date: 8/10/04 09:51 AM
Sequence File: G:\GC17\223.SEQ Cycle: 2 Channel : A
Instrument : GC17 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-20	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-24	0	0.00	0.0000	1.00	1.00	0.0000
C-16	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-22	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-28	181	0.01	0.0061	1.00	1.00	0.0061
DSL:12-24	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-32	1715	0.07	0.0685	1.00	1.00	0.0685
C-22	0	0.00	0.0000	1.00	1.00	0.0000
TROIL:12-40	109855	1.10e-08	1.0986e-08	1.00	1.00	1.0986e-08
HYFL:12-40	109855	3.48	3.4779	1.00	1.00	3.4779
BUNKC:12-40	109855	9.51	9.5069	1.00	1.00	9.5069
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1715	0.07	0.0733	1.00	1.00	0.0733
MO:20-36	20169	0.70	0.7032	1.00	1.00	0.7032
MO:22-36	20169	0.77	0.7685	1.00	1.00	0.7685
MO:24-36	20169	0.93	0.9347	1.00	1.00	0.9347
BUNKC:12-50	226813	17.84	17.8446	1.00	1.00	17.8446
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

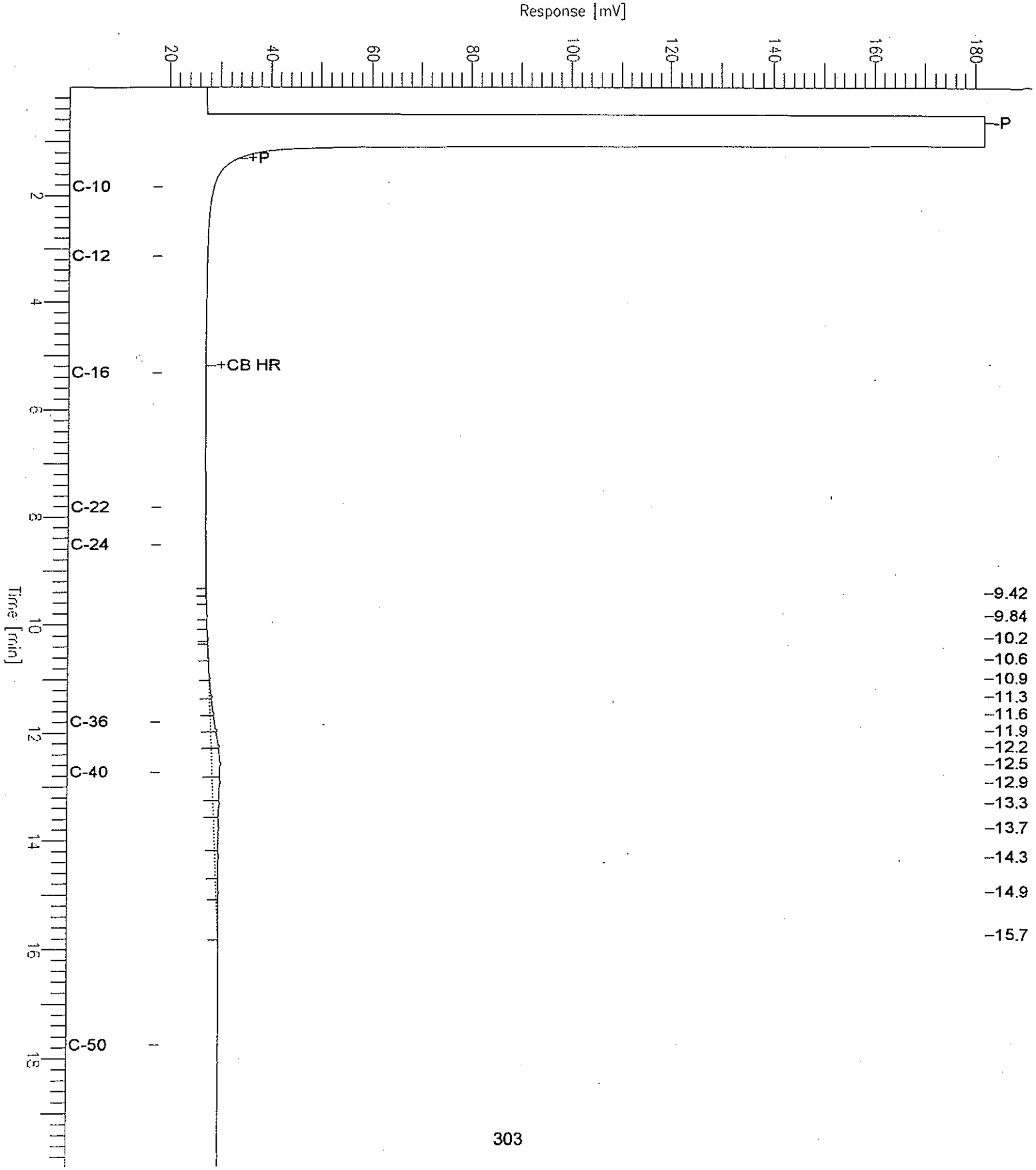
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: C:\WINDOWS\TEMP\~RST0B41.TX0

Chromatogram

Sample Name : ib
FileName : G:\GC17\CHA\223A002.RAW
Method : ATEH212.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #:
Date : 8/12/04 02:35 PM
Time of Injection: 8/10/04 09:51 AM
Low Point : 18.55 mV High Point : 181.80 mV
Plot Scale: 163.2 mV



Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93677
Date: 08/12/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173857-001	15.4365	22.8128	22.4789	95	5
173857-002	15.2825	22.2745	21.9924	96	4
173881-025	15.2216	22.6951	22.3870	96	4
173881-026	15.5389	22.8794	22.5438	95	5
173881-028	15.6512	22.8394	22.5465	96	4
173881-029	15.2827	22.6613	22.4821	98	2
173881-030	15.5933	22.3822	22.1381	96	4
173895-001	15.4115	22.8971	22.4930	95	5
173895-002	15.4235	22.3865	21.5073	87	13
173895-003	15.4641	22.5407	21.6587	88	12
173895-004	15.4109	22.6418	20.7659	74	26
173895-005	15.2925	22.9394	21.8503	86	14
173895-006	15.2137	22.3705	21.8531	93	7
QC260907	15.7376	22.6171	22.2460	95	5
of 173857-001			RPD:	0.9%	17.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93677
Date Started: 11-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
173857-001		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
173857-002		Treadwell & Rollo	Soil	MOISTURE	12-AUG-2004
173881-025		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-026		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-028		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-029		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173881-030		Blasland, Bouck &	Soil	MOISTURE	12-AUG-2004
173895-001		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-002		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-003		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-004		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-005		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
173895-006		Tan Phung Associat	Soil	MOISTURE	12-AUG-2004
QC260907	SDUP of 173857-001		Soil	MOISTURE	

8/11/04

93677

Sample		Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		3	15.3479	—	15.3477	
173881	-25	80	15.2216	22.6951	22.3870	
	26	112	15.5389	22.8794	22.5438	
	28	1976	15.6512	22.8394	22.5465	
	29	73	15.2827	22.6613	22.4821	
	30	29	15.5933	22.3822	22.1381	
173857	-1	32	15.4365	22.8128	22.4789	
DUP	1	33	15.7376	22.6171	22.2460	
	2	26	15.2825	22.2745	21.9824	
173859	-1	6	15.4115	22.8971	22.4930	
	2	54	15.4235	22.3865	21.5873	
	3	HiDEL	15.4641	22.5407	21.6587	
	4	24	15.4109	22.6418	20.7659	
	5	44	15.2925	22.9394	21.8503	
	6	146	15.2137	22.3705	21.8531	

95 2m 8/11

OVEN TEMP: 103°C
TIME IN: 4:45 P.M.
TIME OUT: 9:38 A.M. ON: 8/12/04

Continued on Page

Read and Understood By

R. Manning 8/11/04 307 8-12

Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173859

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio - Baker Beach 3

Sample ID	Lab ID
BB3EX107[0.5]	173859-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 8/18/04
Operations Manager

Signature: _____ Date: 8/17/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

Laboratory Number: **173859**
Client: **Treadwell & Rollo**
Project Name: **Presidio – Baker Beach 3**

Order Date: **08/05/04**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for one soil sample received from the above referenced project. The sample was received cold and intact.

Organochlorine Pesticides: The TCMX surrogate recoveries for the method blank, laboratory control sample (LCS), and matrix spikes were outside acceptance limits. The associated decachlorobiphenyl surrogate recoveries were acceptable, therefore, there is no affect on the quality of the sample results.

The %RSD of the initial calibration of GC23 on 8/6/04 for endrin aldehyde and endosulfan sulfate from channel A, and for endrin aldehyde from channel B, were outside acceptance limits. The associated average %RSD for all compounds was acceptable on both channels, therefore, there is no affect on the quality of the sample results.

The endrin breakdown % for the performance evaluation monitoring standards (PEMs) 219_048, 222_007, 222_022, and 223_004 were above acceptance limits on channel A. Endrin and its associated breakdown products were not detected in the associated sample, therefore, there is no affect on the quality of the sample results.

The %D of the continuing calibration standards were outside acceptance limits for many individual compounds. The affected compounds have been flagged with a "b" as per the method. The associated average %D for all compounds was acceptable on both channels in all CCSs except CCS 222_009 which was above acceptance limits on channel A. No target compounds were detected in the associated sample, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

PCBs: No analytical problems were encountered.

Metals: The matrix spike recoveries for antimony, chromium, copper, and zinc, the matrix spike duplicate recovery for antimony, chromium, and vanadium, and the matrix spike duplicate relative percent difference (RPD) for copper, were outside acceptance limits. The associated blank spike recoveries and blank spike duplicate RPDs were acceptable for all target elements and the spiked sample was not from this site. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

173859

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio-Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reins
Samplers: Mike Chamberlain
Recorder (Signature Required): [signature] (mac)

Turnaround Time: 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	metals	Silica gel clean-up	Hold	Remarks
1 B83EX107 (0.5)	8/5/04	12:13		X						)		X	X	X			

Remarks: Bring to lab & log in

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/5/04	1415	[signature]	8/5	2:18
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) [signature]	Date 8/5/04	Time 3:30	Received by Lab: (Signature) Savanna Curtis	Date 8/5/04	Time 5:30

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Send login to Colleen Hayden SF office

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [X] Private Courier (Co. Name) Ultra Ex

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 002234

5

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173859 Date Received: 8-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 8-5-04 By (print): Tray Windsor (sign) Tray E. Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C ..... YES NO
   Type of ice: wet Temperature: cold – no temp blank

B. Login Phase
Date Logged In: 8-5-04 By (print): Tray Windsor (sign) Tray E. Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX107[0.5]	Batch#:	93531
Lab ID:	173859-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND b	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	119	65-135
Decachlorobiphenyl	110	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260340	Batch#:	93531
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/07/04
Basis:	as received		

Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	59

Surrogate	%REC	Limits
TCMX	139 *	65-135
Decachlorobiphenyl	128	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260341	Batch#:	93531
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/09/04
Basis:	as received		

Cleanup Method: EPA 3260B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.87	17.66 b	105	65-135
Heptachlor	16.87	19.58	116	65-135
Aldrin	16.87	18.57	110	65-135
Dieldrin	16.87	18.47	109	65-135
Endrin	16.87	18.46 b	109	65-135
4,4'-DDT	16.87	18.97	112	65-135

Surrogate	%REC	Limits
TCMX	149 *	65-135
Decachlorobiphenyl	135	65-135

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP080504A	Batch#:	93531
MSS Lab ID:	173857-002	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	as received	Analyzed:	08/09/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3260B
Lab ID: QC260342

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5900	16.89	17.09 b	101	65-135
Heptachlor	<0.5300	16.89	18.43	109	65-135
Aldrin	<0.5800	16.89	17.61	104	65-135
Dieldrin	<1.500	16.89	17.08	101	65-135
Endrin	<1.600	16.89	17.08 b	101	65-135
4,4'-DDT	<1.700	16.89	18.27	108	65-135

Surrogate	%REC	Limits
TCMX	142 *	65-135
Decachlorobiphenyl	114	65-135

Type: MSD Cleanup Method: EPA 3260B
Lab ID: QC260343

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.89	16.59 b	98	65-135	3	35
Heptachlor	16.89	18.50	110	65-135	0	35
Aldrin	16.89	17.23	102	65-135	2	35
Dieldrin	16.89	16.90	100	65-135	1	35
Endrin	16.89	17.04 b	101	65-135	0	35
4,4'-DDT	16.89	17.88	106	65-135	2	35

Surrogate	%REC	Limits
TCMX	142 *	65-135
Decachlorobiphenyl	119	65-135

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804316738001 Name: Type: (normal) Date: 06-AUG-2004 23:27 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	219_010	804316738010	pest_1	06-AUG-2004 23:27	04WS0929
2	219_011	804316738011	pest_2	06-AUG-2004 23:57	04WS0928
3	219_012	804316738012	pest_3	07-AUG-2004 00:26	04WS1385
4	219_013	804316738013	pest_4	07-AUG-2004 00:55	04WS0926
5	219_014	804316738014	pest_5	07-AUG-2004 01:25	04WS1375
6	219_015	804316738015	pest_6	07-AUG-2004 01:54	04WS0924
7	219_016	804316738016	pest_7	07-AUG-2004 02:23	04WS1374

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	18599	17066	15890	16599	15788	15734	17384	AVRG	R		5.980E-5		pg	16723	6	0.995	20	
gamma-BHC	A	17020	15689	14239	14961	14044	13992	15469	AVRG	R		6.640E-5		pg	15059	7	0.995	20	
beta-BHC	A	7990.1	7142.6	6234.2	6478.9	5933.9	5596.8	5979.2	AVRG	R		1.543E-4		pg	6479.4	13	0.995	20	
delta-BHC	A	21550	16760	14405	14916	13913	14069	15343	AVRG	R		6.309E-5		pg	15851	17	0.995	20	
Heptachlor	A	15129	14001	12770	13370	12565	12550	13951	AVRG	R		7.420E-5		pg	13477	7	0.995	20	
Aldrin	A	15492	14657	13008	13367	12587	12441	13695	AVRG	R		7.349E-5		pg	13606	8	0.995	20	
Heptachlor epoxide	A	14493	13317	11949	12102	11467	11167	12120	AVRG	R		8.082E-5		pg	12374	9	0.995	20	
gamma-Chlordane	A	14200	13168	11732	12021	11386	11262	12417	AVRG	R		8.122E-5		pg	12312	9	0.995	20	
alpha-Chlordane	A	13756	12770	11322	11492	10848	10750	11736	AVRG	R		8.467E-5		pg	11811	9	0.995	20	
4,4'-DDE	A	12415	11653	10368	10934	10504	10920	10514	AVRG	R		9.055E-5		pg	11044	7	0.995	20	
Endosulfan I	A	13435	12368	10759	10927	10275	10057	10860	AVRG	R		8.897E-5		pg	11240	11	0.995	20	
Dieldrin	A	13503	12607	11104	11715	11152	11416	10813	AVRG	R		8.505E-5		pg	11758	8	0.995	20	
Endrin	A	10921	10064	8807.4	9201.0	8724.1	9027.3	9073.1	AVRG	R		1.064E-4		pg	9402.5	9	0.995	20	
4,4'-DDD	A	9858.8	9159.0	7889.3	8171.9	7945.4	8371.9	8280.5	AVRG	R		1.173E-4		pg	8525.3	8	0.995	20	
Endosulfan II	A	12312	10707	9108.4	9359.6	8953.7	9287.5	8944.0	AVRG	R		1.019E-4		pg	9810.2	13	0.995	20	
4,4'-DDT	A	9825.6	8987.6	7732.5	8359.9	7854.5	8474.6	8389.6	AVRG	R		1.174E-4		pg	8517.8	8	0.995	20	
Endrin aldehyde	A	12460	9031.8	7195.0	7004.1	6742.8	6733.4	6827.5	AVRG	R		1.250E-4		pg	7999.2	27	0.995	20	rsd ***
Methoxychlor	A	3923.8	3644.2	3027.4	3265.6	3238.3	3152.3	2725.0	AVRG	R		3.047E-4		pg	3282.4	12	0.995	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804316738001 Name: Type: (normal) Date: 06-AUG-2004 23:27 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	12231	9434.4	7648.1	7653.7	7420.6	7639.4	7888.6	AVRG	R		1.168E-4		pg	8559.3	21	0.995	20	rsd ***
Endrin ketone	A	12749	10750	8789.6	9083.8	8788.5	9157.3	8406.4	AVRG	R		1.034E-4		pg	9674.9	16	0.995	20	
TCMX	A	12481	11597	10533	10701	10328	10065	10847	AVRG	R		9.144E-5		pg	10936	8	0.995	20	
Decachlorobiphenyl	A	6799.2	6354.3	5276.0	5331.1	4977.2	5562.2	5981.1	AVRG	R		1.738E-4		pg	5754.4	11	0.995	20	
alpha-BHC	B	19269	18984	18180	19465	17115	16660	18037	AVRG	R		5.481E-5		pg	18244	6	0.995	20	
gamma-BHC	B	17944	17490	16494	17603	15293	14612	16123	AVRG	R		6.057E-5		pg	16509	8	0.995	20	
beta-BHC	B	8620.5	8301.9	7492.1	7850.8	6664.1	5994.3	6704.7	AVRG	R		1.356E-4		pg	7375.5	13	0.995	20	
delta-BHC	B	22674	18864	17205	18178	15663	14805	16211	AVRG	R		5.663E-5		pg	17657	15	0.995	20	
Heptachlor	B	13539	13347	12928	13858	11984	11340	13295	AVRG	R		7.753E-5		pg	12899	7	0.995	20	
Aldrin	B	16826	16624	15487	16210	14231	13135	14671	AVRG	R		6.531E-5		pg	15312	9	0.995	20	
Heptachlor epoxide	B	15727	15576	14451	14833	13062	11644	13044	AVRG	R		7.118E-5		pg	14048	11	0.995	20	
gamma-Chlordane	B	15809	15515	14622	15116	13368	11848	13694	AVRG	R		7.002E-5		pg	14282	10	0.995	20	
alpha-Chlordane	B	15432	15119	14084	14447	12717	11203	12870	AVRG	R		7.301E-5		pg	13696	11	0.995	20	
4,4'-DDE	B	14288	14278	13655	14312	13028	11253	11540	AVRG	R		7.580E-5		pg	13193	10	0.995	20	
Endosulfan I	B	14535	14250	13250	13576	11995	10461	12010	AVRG	R		7.771E-5		pg	12868	11	0.995	20	
Dieldrin	B	15217	15008	14070	14781	13297	11545	11601	AVRG	R		7.328E-5		pg	13646	11	0.995	20	
Endrin	B	12468	12373	11492	11616	10514	9310.4	9793.9	AVRG	R		9.024E-5		pg	11081	11	0.995	20	
4,4'-DDD	B	11176	11172	10906	11002	10065	8643.0	9282.1	AVRG	R		9.689E-5		pg	10321	10	0.995	20	
Endosulfan II	B	13918	12872	12239	12243	11056	9583.2	9936.8	AVRG	R		8.552E-5		pg	11693	13	0.995	20	
4,4'-DDT	B	9979.3	10131	9921.6	10033	9320.2	7972.6	8802.2	AVRG	R		1.058E-4		pg	9451.4	9	0.995	20	
Endrin aldehyde	B	14166	10878	9818.5	9130.3	8500.1	6905.4	7620.7	AVRG	R		1.044E-4		pg	9574.2	25	0.995	20	rsd ***
Methoxychlor	B	4431.9	4355.3	4293.2	4357.8	4090.3	3037.3	2838.7	AVRG	R		2.554E-4		pg	3914.9	17	0.995	20	
Endosulfan sulfate	B	14342	11843	10843	10665	9818.3	8289.1	9172.7	AVRG	R		9.337E-5		pg	10710	18	0.995	20	
Endrin ketone	B	13972	12436	11975	11668	10882	8749.1	8878.7	AVRG	R		8.910E-5		pg	11223	17	0.995	20	
TCMX	B	13249	12774	12049	12467	11195	10696	11134	AVRG	R		8.377E-5		pg	11938	8	0.995	20	
Decachlorobiphenyl	B	8222.4	8060.9	7530.4	6917.1	6909.5	5127.0	5787.9	AVRG	R		1.442E-4		pg	6936.5	17	0.995	20	

Method	Ch	Count	Avg	%RSD Limit	flags
EPA 8081A	A	22	11	20	
EPA 8081A	B	22	12	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804316738033 Run Name: Injected: 07-AUG-2004 10:40
Filename: 219_033 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	754234.17
4,4'-DDE	A	3585.23
4,4'-DDD	A	20089.88

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	410482.2
Endrin aldehyde	A	20320.5
Endrin ketone	A	30007.61

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	848800.4
4,4'-DDE	B	3798
4,4'-DDD	B	15137.87

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	510522.87
Endrin aldehyde	B	11825.67
Endrin ketone	B	14693.86

Endrin Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804316738048 Run Name: Injected: 07-AUG-2004 17:58
Filename: 219_048 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	743591.4
4,4'-DDE	A	3636.04
4,4'-DDD	A	22988

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	379937
Endrin aldehyde	A	33353.41
Endrin ketone	A	38227.17

Endrin Breakdown %: **16 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	833576.27
4,4'-DDE	B	3794.35
4,4'-DDD	B	9729.34

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	477680.62
Endrin aldehyde	B	14226.05
Endrin ketone	B	17716.01

Endrin Breakdown %: 6
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804320349007 Run Name: Injected: 09-AUG-2004 12:24
Filename: 222_007 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	694489.04
4,4'-DDE	A	3895.21
4,4'-DDD	A	16800.05

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	348454.95
Endrin aldehyde	A	38350.84
Endrin ketone	A	39221.83

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	871433.5
4,4'-DDE	B	5067
4,4'-DDD	B	12597.22

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	462116
Endrin aldehyde	B	44547.3
Endrin ketone	B	38922.7

Endrin Breakdown %: 15
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804320349022 Run Name: Injected: 09-AUG-2004 22:25
Filename: 222_022 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	648215.5
4,4'-DDE	A	3591.12
4,4'-DDD	A	34117.53

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	348426.96
Endrin aldehyde	A	33002.69
Endrin ketone	A	42704.75

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1062435.1
4,4'-DDE	B	4496
4,4'-DDD	B	20829.73

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	594974.1
Endrin aldehyde	B	24799.55
Endrin ketone	B	29952.69

Endrin Breakdown %: 8
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804322003004 Run Name: Injected: 10-AUG-2004 14:43
Filename: 223_004 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	685420.7
4,4'-DDE	A	3481.5
4,4'-DDD	A	25697.03

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	355726.47
Endrin aldehyde	A	33408.13
Endrin ketone	A	41548.24

Endrin Breakdown %: **17 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	888771.24
4,4'-DDE	B	4967.97
4,4'-DDD	B	21661.66

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	492642.09
Endrin aldehyde	B	34448
Endrin ketone	B	36055.23

Endrin Breakdown %: 13
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804322003020 Run Name: Injected: 11-AUG-2004 00:33
Filename: 223_020 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	668272.43
4,4'-DDE	A	3535.58
4,4'-DDD	A	52465.06

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	384643.58
Endrin aldehyde	A	27449.36
Endrin ketone	A	42687.45

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	991559.94
4,4'-DDE	B	4546.29
4,4'-DDD	B	48001.41

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	591410.09
Endrin aldehyde	B	23219.76
Endrin ketone	B	33552.5

Endrin Breakdown %: 9
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804316738034 Filename : 219_034 Injected : 07-AUG-2004 11:09
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15780	20.00000	18.87246	pg	-6	15	
gamma-BHC	A	15059	13976	20.00000	18.56075	pg	-7	15	
beta-BHC	A	6479.4	5938.6	20.00000	18.33068	pg	-8	15	
delta-BHC	A	15851	13640	20.00000	17.21087	pg	-14	15	
Heptachlor	A	13477	12135	20.00000	18.00851	pg	-10	15	
Aldrin	A	13606	12442	20.00000	18.28821	pg	-9	15	
Heptachlor epoxide	A	12374	11211	20.00000	18.12131	pg	-9	15	
gamma-Chlordane	A	12312	11040	20.00000	17.93345	pg	-10	15	
alpha-Chlordane	A	11811	10448	20.00000	17.69189	pg	-12	15	
4,4'-DDE	A	11044	9881.7	40.00000	35.79061	pg	-11	15	
Endosulfan I	A	11240	9919.3	20.00000	17.65002	pg	-12	15	
Dieldrin	A	11758	10592	40.00000	36.03384	pg	-10	15	
Endrin	A	9402.5	7633.7	40.00000	32.47544	pg	-19	15	c- ***
4,4'-DDD	A	8525.3	7528.9	40.00000	35.32494	pg	-12	15	
Endosulfan II	A	9810.2	8511.1	40.00000	34.70294	pg	-13	15	
4,4'-DDT	A	8517.8	6873.8	40.00000	32.27971	pg	-19	15	c- ***
Endrin aldehyde	A	7999.2	6491.7	40.00000	32.46176	pg	-19	15	c- rsd ***
Methoxychlor	A	3282.4	2925.6	200.0000	178.2634	pg	-11	15	
Endosulfan sulfate	A	8559.3	6963.8	40.00000	32.54357	pg	-19	15	c- rsd ***
Endrin ketone	A	9674.9	8317.8	40.00000	34.38906	pg	-14	15	
TCMX	A	10936	10434	40.00000	38.16203	pg	-5	15	
Decachlorobiphenyl	A	5754.4	4385.7	40.00000	30.48541	pg	-24	15	c-
alpha-BHC	B	18244	17985	20.00000	19.71596	pg	-1	15	
gamma-BHC	B	16509	16116	20.00000	19.52394	pg	-2	15	
beta-BHC	B	7375.5	7129.1	20.00000	19.33173	pg	-3	15	
delta-BHC	B	17657	16378	20.00000	18.55082	pg	-7	15	
Heptachlor	B	12899	11554	20.00000	17.91498	pg	-10	15	
Aldrin	B	15312	15023	20.00000	19.62257	pg	-2	15	
Heptachlor epoxide	B	14048	13736	20.00000	19.55594	pg	-2	15	
gamma-Chlordane	B	14282	13891	20.00000	19.45294	pg	-3	15	
alpha-Chlordane	B	13696	13365	20.00000	19.51719	pg	-2	15	
4,4'-DDE	B	13193	12975	40.00000	39.33737	pg	-2	15	
Endosulfan I	B	12868	12659	20.00000	19.67468	pg	-2	15	
Dieldrin	B	13646	13425	40.00000	39.35420	pg	-2	15	
Endrin	B	11081	10623	40.00000	38.34686	pg	-4	15	
4,4'-DDD	B	10321	9893.4	40.00000	38.34349	pg	-4	15	
Endosulfan II	B	11693	10925	40.00000	37.37282	pg	-7	15	
4,4'-DDT	B	9451.4	8689.3	40.00000	36.77464	pg	-8	15	
Endrin aldehyde	B	9574.2	8018.6	40.00000	33.50102	pg	-16	15	c- rsd ***
Methoxychlor	B	3914.9	3751.0	200.0000	191.6276	pg	-4	15	
Endosulfan sulfate	B	10710	9284.4	40.00000	34.67400	pg	-13	15	
Endrin ketone	B	11223	10000	40.00000	35.64158	pg	-11	15	
TCMX	B	11938	11812	40.00000	39.58068	pg	-1	15	
Decachlorobiphenyl	B	6936.5	5584.5	40.00000	32.20398	pg	-19	15	c-
Average EPA 8081A	A		(count=22)				12	15	
Average EPA 8081A	B		(count=22)				6	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804316738050 Filename : 219_050 Injected : 07-AUG-2004 18:57
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15953	10.00000	9.539665	pg	-5	15	
gamma-BHC	A	15059	14240	10.00000	9.455795	pg	-5	15	
beta-BHC	A	6479.4	6309.5	10.00000	9.737748	pg	-3	15	
delta-BHC	A	15851	14146	10.00000	8.924231	pg	-11	15	
Heptachlor	A	13477	12273	10.00000	9.107108	pg	-9	15	
Aldrin	A	13606	12874	10.00000	9.461779	pg	-5	15	
Heptachlor epoxide	A	12374	11775	10.00000	9.516526	pg	-5	15	
gamma-Chlordane	A	12312	11870	10.00000	9.641101	pg	-4	15	
alpha-Chlordane	A	11811	11070	10.00000	9.372571	pg	-6	15	
4,4'-DDE	A	11044	10262	20.00000	18.58315	pg	-7	15	
Endosulfan I	A	11240	10534	10.00000	9.372254	pg	-6	15	
Dieldrin	A	11758	10965	20.00000	18.65058	pg	-7	15	
Endrin	A	9402.5	7896.8	20.00000	16.79717	pg	**-16**	15	c- ***
4,4'-DDD	A	8525.3	8102.2	20.00000	19.00747	pg	-5	15	
Endosulfan II	A	9810.2	9096.6	20.00000	18.54512	pg	-7	15	
4,4'-DDT	A	8517.8	7096.8	20.00000	16.66354	pg	**-17**	15	c- ***
Endrin aldehyde	A	7999.2	7220.9	20.00000	18.05390	pg	-10	15	rsd ***
Methoxychlor	A	3282.4	2966.6	100.0000	90.38113	pg	-10	15	
Endosulfan sulfate	A	8559.3	7595.9	20.00000	17.74885	pg	-11	15	rsd ***
Endrin ketone	A	9674.9	9078.9	20.00000	18.76782	pg	-6	15	
TCMX	A	10936	10649	20.00000	19.47505	pg	-3	15	
Decachlorobiphenyl	A	5754.4	4998.4	20.00000	17.37223	pg	-13	15	
alpha-BHC	B	18244	19511	10.00000	10.69440	pg	7	15	
gamma-BHC	B	16509	17628	10.00000	10.67816	pg	7	15	
beta-BHC	B	7375.5	8019.3	10.00000	10.87290	pg	9	15	
delta-BHC	B	17657	17760	10.00000	10.05807	pg	1	15	
Heptachlor	B	12899	12358	10.00000	9.580873	pg	-4	15	
Aldrin	B	15312	16407	10.00000	10.71504	pg	7	15	
Heptachlor epoxide	B	14048	15136	10.00000	10.77404	pg	8	15	
gamma-Chlordane	B	14282	15206	10.00000	10.64747	pg	6	15	
alpha-Chlordane	B	13696	14507	10.00000	10.59222	pg	6	15	
4,4'-DDE	B	13193	13967	20.00000	21.17230	pg	6	15	
Endosulfan I	B	12868	13740	10.00000	10.67780	pg	7	15	
Dieldrin	B	13646	14519	20.00000	21.28024	pg	6	15	
Endrin	B	11081	11512	20.00000	20.77745	pg	4	15	
4,4'-DDD	B	10321	10868	20.00000	21.05959	pg	5	15	
Endosulfan II	B	11693	12084	20.00000	20.66997	pg	3	15	
4,4'-DDT	B	9451.4	9656.1	20.00000	20.43309	pg	2	15	
Endrin aldehyde	B	9574.2	9232.9	20.00000	19.28693	pg	-4	15	rsd ***
Methoxychlor	B	3914.9	4104.9	100.0000	104.8534	pg	5	15	
Endosulfan sulfate	B	10710	10386	20.00000	19.39406	pg	-3	15	
Endrin ketone	B	11223	11499	20.00000	20.49154	pg	2	15	
TCMX	B	11938	12994	20.00000	21.77047	pg	9	15	
Decachlorobiphenyl	B	6936.5	6979.2	20.00000	20.12335	pg	1	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804320349009 Filename : 222_009 Injected : 09-AUG-2004 13:22
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	14457	20.00000	17.29059	pg	-14	15	
gamma-BHC	A	15059	12846	20.00000	17.06024	pg	-15	15	
beta-BHC	A	6479.4	5565.0	20.00000	17.17767	pg	-14	15	
delta-BHC	A	15851	12914	20.00000	16.29467	pg	-19	15	c- ***
Heptachlor	A	13477	10927	20.00000	16.21629	pg	-19	15	c- ***
Aldrin	A	13606	11512	20.00000	16.92097	pg	-15	15	
Heptachlor epoxide	A	12374	10455	20.00000	16.89953	pg	-16	15	c- ***
gamma-Chlordane	A	12312	10393	20.00000	16.88273	pg	-16	15	c- ***
alpha-Chlordane	A	11811	9873.1	20.00000	16.71915	pg	-16	15	c- ***
4,4'-DDE	A	11044	9368.6	40.00000	33.93221	pg	-15	15	
Endosulfan I	A	11240	9313.4	20.00000	16.57195	pg	-17	15	c- ***
Dieldrin	A	11758	9804.1	40.00000	33.35211	pg	-17	15	c- ***
Endrin	A	9402.5	6193.0	40.00000	26.34626	pg	-34	15	c- ***
4,4'-DDD	A	8525.3	7042.6	40.00000	33.04314	pg	-17	15	c- ***
Endosulfan II	A	9810.2	8181.8	40.00000	33.36016	pg	-17	15	c- ***
4,4'-DDT	A	8517.8	6423.1	40.00000	30.16331	pg	-25	15	c- ***
Endrin aldehyde	A	7999.2	6315.1	40.00000	31.57830	pg	-21	15	c- rsd ***
Methoxychlor	A	3282.4	2460.0	200.0000	149.8927	pg	-25	15	c- ***
Endosulfan sulfate	A	8559.3	6683.6	40.00000	31.23422	pg	-22	15	c- rsd ***
Endrin ketone	A	9674.9	8154.2	40.00000	33.71257	pg	-16	15	c- ***
TCMX	A	10936	9508.1	40.00000	34.77701	pg	-13	15	
Decachlorobiphenyl	A	5754.4	4176.3	40.00000	29.03004	pg	-27	15	c-
alpha-BHC	B	18244	18437	20.00000	20.21122	pg	1	15	
gamma-BHC	B	16509	16410	20.00000	19.88054	pg	-1	15	
beta-BHC	B	7375.5	7279.8	20.00000	19.74038	pg	-1	15	
delta-BHC	B	17657	16678	20.00000	18.89038	pg	-6	15	
Heptachlor	B	12899	11509	20.00000	17.84533	pg	-11	15	
Aldrin	B	15312	15231	20.00000	19.89370	pg	-1	15	
Heptachlor epoxide	B	14048	13643	20.00000	19.42290	pg	-3	15	
gamma-Chlordane	B	14282	13966	20.00000	19.55872	pg	-2	15	
alpha-Chlordane	B	13696	13256	20.00000	19.35754	pg	-3	15	
4,4'-DDE	B	13193	13070	40.00000	39.62699	pg	-1	15	
Endosulfan I	B	12868	12431	20.00000	19.32065	pg	-3	15	
Dieldrin	B	13646	13116	40.00000	38.44774	pg	-4	15	
Endrin	B	11081	9064.1	40.00000	32.71930	pg	-18	15	c- ***
4,4'-DDD	B	10321	9599.3	40.00000	37.20371	pg	-7	15	
Endosulfan II	B	11693	10945	40.00000	37.44086	pg	-6	15	
4,4'-DDT	B	9451.4	8362.0	40.00000	35.38921	pg	-12	15	
Endrin aldehyde	B	9574.2	8359.8	40.00000	34.92641	pg	-13	15	rsd ***
Methoxychlor	B	3914.9	3396.2	200.0000	173.4976	pg	-13	15	
Endosulfan sulfate	B	10710	9275.4	40.00000	34.64024	pg	-13	15	
Endrin ketone	B	11223	10366	40.00000	36.94546	pg	-8	15	
TCMX	B	11938	12131	40.00000	40.64755	pg	2	15	
Decachlorobiphenyl	B	6936.5	6117.5	40.00000	35.27728	pg	-12	15	
Average EPA 8081A	A		(count=22)				19	15	ac
Average EPA 8081A	B		(count=22)				6	15	

-=low bias ac=average CCV drift out c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804320349023
Calnum : 804316738001
Standards: 04WS1385

Run Name : ccv
Filename : 222_023
Caldate : 06-AUG-2004

IDF : 1.0
Injected : 09-AUG-2004 22:54
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15610	10.00000	9.334381	pg	-7	15	
gamma-BHC	A	15059	13996	10.00000	9.293923	pg	-7	15	
beta-BHC	A	6479.4	6119.4	10.00000	9.444355	pg	-6	15	
delta-BHC	A	15851	13706	10.00000	8.647081	pg	-14	15	
Heptachlor	A	13477	12101	10.00000	8.978875	pg	-10	15	
Aldrin	A	13606	12523	10.00000	9.203371	pg	-8	15	
Heptachlor epoxide	A	12374	11430	10.00000	9.237708	pg	-8	15	
gamma-Chlordane	A	12312	11248	10.00000	9.135527	pg	-9	15	
alpha-Chlordane	A	11811	10782	10.00000	9.128721	pg	-9	15	
4,4'-DDE	A	11044	9914.5	20.00000	17.95475	pg	-10	15	
Endosulfan I	A	11240	10218	10.00000	9.090359	pg	-9	15	
Dieldrin	A	11758	10597	20.00000	18.02523	pg	-10	15	
Endrin	A	9402.5	7722.6	20.00000	16.42679	pg	-18	15	c- ***
4,4'-DDD	A	8525.3	7781.0	20.00000	18.25395	pg	-9	15	
Endosulfan II	A	9810.2	8722.5	20.00000	17.78245	pg	-11	15	
4,4'-DDT	A	8517.8	6909.1	20.00000	16.22280	pg	-19	15	c- ***
Endrin aldehyde	A	7999.2	6901.7	20.00000	17.25599	pg	-14	15	rsd ***
Methoxychlor	A	3282.4	2846.7	100.0000	86.72816	pg	-13	15	
Endosulfan sulfate	A	8559.3	7333.4	20.00000	17.13536	pg	-14	15	rsd ***
Endrin ketone	A	9674.9	8759.0	20.00000	18.10652	pg	-9	15	
TCMX	A	10936	10389	20.00000	18.99997	pg	-5	15	
Decachlorobiphenyl	A	5754.4	4848.7	20.00000	16.85186	pg	-16	15	c-
alpha-BHC	B	18244	21113	10.00000	11.57235	pg	16	15	c+ ***
gamma-BHC	B	16509	19089	10.00000	11.56328	pg	16	15	c+ ***
beta-BHC	B	7375.5	8633.6	10.00000	11.70580	pg	17	15	c+ ***
delta-BHC	B	17657	19239	10.00000	10.89580	pg	9	15	
Heptachlor	B	12899	14023	10.00000	10.87202	pg	9	15	
Aldrin	B	15312	17676	10.00000	11.54425	pg	15	15	
Heptachlor epoxide	B	14048	16250	10.00000	11.56717	pg	16	15	c+ ***
gamma-Chlordane	B	14282	16352	10.00000	11.44952	pg	14	15	
alpha-Chlordane	B	13696	15601	10.00000	11.39092	pg	14	15	
4,4'-DDE	B	13193	15043	20.00000	22.80340	pg	14	15	
Endosulfan I	B	12868	14737	10.00000	11.45203	pg	15	15	
Dieldrin	B	13646	15470	20.00000	22.67330	pg	13	15	
Endrin	B	11081	11900	20.00000	21.47901	pg	7	15	
4,4'-DDD	B	10321	11740	20.00000	22.75058	pg	14	15	
Endosulfan II	B	11693	12869	20.00000	22.01184	pg	10	15	
4,4'-DDT	B	9451.4	10052	20.00000	21.26996	pg	6	15	
Endrin aldehyde	B	9574.2	10135	20.00000	21.17124	pg	6	15	rsd ***
Methoxychlor	B	3914.9	4324.4	100.0000	110.4584	pg	10	15	
Endosulfan sulfate	B	10710	11049	20.00000	20.63186	pg	3	15	
Endrin ketone	B	11223	12311	20.00000	21.93814	pg	10	15	
TCMX	B	11938	13976	20.00000	23.41451	pg	17	15	c+
Decachlorobiphenyl	B	6936.5	7356.1	20.00000	21.20986	pg	6	15	
Average EPA 8081A	A		(count=22)				11	15	
Average EPA 8081A	B		(count=22)				12	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804322003005 Filename : 223_005 Injected : 10-AUG-2004 15:13
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15342	20.00000	18.34874	pg	-8	15	
gamma-BHC	A	15059	13689	20.00000	18.17974	pg	-9	15	
beta-BHC	A	6479.4	5907.2	20.00000	18.23378	pg	-9	15	
delta-BHC	A	15851	13559	20.00000	17.10825	pg	-14	15	
Heptachlor	A	13477	11796	20.00000	17.50573	pg	-12	15	
Aldrin	A	13606	12137	20.00000	17.84025	pg	-11	15	
Heptachlor epoxide	A	12374	11038	20.00000	17.84092	pg	-11	15	
gamma-Chlordane	A	12312	10895	20.00000	17.69842	pg	-12	15	
alpha-Chlordane	A	11811	10368	20.00000	17.55743	pg	-12	15	
4,4'-DDE	A	11044	9946.2	40.00000	36.02427	pg	-10	15	
Endosulfan I	A	11240	9854.4	20.00000	17.53450	pg	-12	15	
Dieldrin	A	11758	10413	40.00000	35.42283	pg	-11	15	
Endrin	A	9402.5	7058.0	40.00000	30.02630	pg	-25	15	c- ***
4,4'-DDD	A	8525.3	7546.0	40.00000	35.40541	pg	-11	15	
Endosulfan II	A	9810.2	8549.4	40.00000	34.85916	pg	-13	15	
4,4'-DDT	A	8517.8	6867.2	40.00000	32.24883	pg	-19	15	c- ***
Endrin aldehyde	A	7999.2	6531.6	40.00000	32.66102	pg	-18	15	c- rsd ***
Methoxychlor	A	3282.4	2710.4	200.0000	165.1514	pg	-17	15	c- ***
Endosulfan sulfate	A	8559.3	7002.6	40.00000	32.72488	pg	-18	15	c- rsd ***
Endrin ketone	A	9674.9	8452.3	40.00000	34.94493	pg	-13	15	
TCMX	A	10936	10134	40.00000	37.06814	pg	-7	15	
Decachlorobiphenyl	A	5754.4	4386.7	40.00000	30.49260	pg	-24	15	c-
alpha-BHC	B	18244	19808	20.00000	21.71397	pg	9	15	
gamma-BHC	B	16509	17702	20.00000	21.44562	pg	7	15	
beta-BHC	B	7375.5	7863.7	20.00000	21.32387	pg	7	15	
delta-BHC	B	17657	17838	20.00000	20.20509	pg	1	15	
Heptachlor	B	12899	12894	20.00000	19.99284	pg	0	15	
Aldrin	B	15312	16357	20.00000	21.36497	pg	7	15	
Heptachlor epoxide	B	14048	14806	20.00000	21.07849	pg	5	15	
gamma-Chlordane	B	14282	15027	20.00000	21.04392	pg	5	15	
alpha-Chlordane	B	13696	14304	20.00000	20.88865	pg	4	15	
4,4'-DDE	B	13193	14169	40.00000	42.95957	pg	7	15	
Endosulfan I	B	12868	13414	20.00000	20.84868	pg	4	15	
Dieldrin	B	13646	14277	40.00000	41.85088	pg	5	15	
Endrin	B	11081	10310	40.00000	37.21516	pg	-7	15	
4,4'-DDD	B	10321	10679	40.00000	41.38945	pg	3	15	
Endosulfan II	B	11693	11914	40.00000	40.75763	pg	2	15	
4,4'-DDT	B	9451.4	9238.4	40.00000	39.09833	pg	-2	15	
Endrin aldehyde	B	9574.2	8947.6	40.00000	37.38188	pg	-7	15	rsd ***
Methoxychlor	B	3914.9	3901.9	200.0000	199.3362	pg	0	15	
Endosulfan sulfate	B	10710	10142	40.00000	37.87693	pg	-5	15	
Endrin ketone	B	11223	11423	40.00000	40.71210	pg	2	15	
TCMX	B	11938	13021	40.00000	43.63048	pg	9	15	
Decachlorobiphenyl	B	6936.5	6833.3	40.00000	39.40507	pg	-1	15	
Average EPA 8081A	A		(count=22)				14	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804322003021 Filename : 223_021 Injected : 11-AUG-2004 01:02
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	16232	10.00000	9.706386	pg	-3	15	
gamma-BHC	A	15059	14581	10.00000	9.682689	pg	-3	15	
beta-BHC	A	6479.4	6332.5	10.00000	9.773322	pg	-2	15	
delta-BHC	A	15851	14178	10.00000	8.944483	pg	-11	15	
Heptachlor	A	13477	12352	10.00000	9.165421	pg	-8	15	
Aldrin	A	13606	12970	10.00000	9.531973	pg	-5	15	
Heptachlor epoxide	A	12374	11853	10.00000	9.579581	pg	-4	15	
gamma-Chlordane	A	12312	11616	10.00000	9.434802	pg	-6	15	
alpha-Chlordane	A	11811	11124	10.00000	9.418293	pg	-6	15	
4,4'-DDE	A	11044	10230	20.00000	18.52602	pg	-7	15	
Endosulfan I	A	11240	10589	10.00000	9.421142	pg	-6	15	
Dieldrin	A	11758	10957	20.00000	18.63763	pg	-7	15	
Endrin	A	9402.5	7974.2	20.00000	16.96192	pg	-15	15	
4,4'-DDD	A	8525.3	8153.0	20.00000	19.12665	pg	-4	15	
Endosulfan II	A	9810.2	8947.5	20.00000	18.24115	pg	-9	15	
4,4'-DDT	A	8517.8	6636.6	20.00000	15.58284	pg	**-22**	15	c- ***
Endrin aldehyde	A	7999.2	7006.7	20.00000	17.51828	pg	-12	15	rsd ***
Methoxychlor	A	3282.4	2740.5	100.0000	83.49172	pg	-17	15	c- ***
Endosulfan sulfate	A	8559.3	7470.8	20.00000	17.45652	pg	-13	15	rsd ***
Endrin ketone	A	9674.9	8744.7	20.00000	18.07708	pg	-10	15	
TCMX	A	10936	10849	20.00000	19.84050	pg	-1	15	
Decachlorobiphenyl	A	5754.4	4593.7	20.00000	15.96574	pg	**-20**	15	c-
alpha-BHC	B	18244	21728	10.00000	11.90930	pg	**19**	15	c+ ***
gamma-BHC	B	16509	19523	10.00000	11.82620	pg	**18**	15	c+ ***
beta-BHC	B	7375.5	8729.3	10.00000	11.83555	pg	**18**	15	c+ ***
delta-BHC	B	17657	19232	10.00000	10.89204	pg	9	15	
Heptachlor	B	12899	13592	10.00000	10.53760	pg	5	15	
Aldrin	B	15312	17568	10.00000	11.47350	pg	15	15	
Heptachlor epoxide	B	14048	15965	10.00000	11.36444	pg	14	15	
gamma-Chlordane	B	14282	15793	10.00000	11.05863	pg	11	15	
alpha-Chlordane	B	13696	15035	10.00000	10.97781	pg	10	15	
4,4'-DDE	B	13193	14275	20.00000	21.63913	pg	8	15	
Endosulfan I	B	12868	14293	10.00000	11.10715	pg	11	15	
Dieldrin	B	13646	14922	20.00000	21.87051	pg	9	15	
Endrin	B	11081	11133	20.00000	20.09416	pg	0	15	
4,4'-DDD	B	10321	11131	20.00000	21.57079	pg	8	15	
Endosulfan II	B	11693	12126	20.00000	20.74189	pg	4	15	
4,4'-DDT	B	9451.4	8670.2	20.00000	18.34687	pg	-8	15	
Endrin aldehyde	B	9574.2	9383.6	20.00000	19.60184	pg	-2	15	rsd ***
Methoxychlor	B	3914.9	3669.0	100.0000	93.71795	pg	-6	15	
Endosulfan sulfate	B	10710	10252	20.00000	19.14374	pg	-4	15	
Endrin ketone	B	11223	11304	20.00000	20.14492	pg	1	15	
TCMX	B	11938	14516	20.00000	24.31976	pg	**22**	15	c+
Decachlorobiphenyl	B	6936.5	6088.2	20.00000	17.55414	pg	-12	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				10	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804316738 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 06-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
007	219_007	PEM				06-AUG-2004 22:00	1.0					1	
009	219_009	X	hex			06-AUG-2004 22:58	1.0						
010	219_010	ICAL	pest_1			06-AUG-2004 23:27	1.0	1.0				2	
011	219_011	ICAL	pest_2			06-AUG-2004 23:57	1.0	1.0				3	
012	219_012	ICAL	pest_3			07-AUG-2004 00:26	1.0	1.0				4	
013	219_013	ICAL	pest_4			07-AUG-2004 00:55	1.0	1.0				5	
014	219_014	ICAL	pest_5			07-AUG-2004 01:25	1.0	1.0				6	
015	219_015	ICAL	pest_6			07-AUG-2004 01:54	1.0	1.0				7	
016	219_016	ICAL	pest_7			07-AUG-2004 02:23	1.0	1.0				8	
017	219_017	X	hex			07-AUG-2004 02:52	1.0						
018	219_018	ICV	accpst_icv			07-AUG-2004 03:21	1.0	1.0	1		1	9	
019	219_019	X	icv			07-AUG-2004 03:51	1.0					9	
020	219_020	PEM				07-AUG-2004 04:20	1.0	1.0			1	1	
022	219_022	BLANK	QC260453	93561	Soil	07-AUG-2004 05:18	1.0	0.6618	5		1		
023	219_023	LCS	QC260454	93561	Soil	07-AUG-2004 05:48	1.0	0.6757	5	17	1	spk	
024	219_024	MS	QC260455	93561	Soil	07-AUG-2004 06:17	1.0						
025	219_025	MSD	QC260456	93561	Soil	07-AUG-2004 06:46	1.0						
026	219_026	SAMPLE	173783-004	93561	Soil	07-AUG-2004 07:15	1.0	0.6702	5		1	spk	
027	219_027	SAMPLE	173804-001	93561	Soil	07-AUG-2004 07:44	1.0	0.6826	5		1	spk	
028	219_028	SAMPLE	173804-002	93561	Soil	07-AUG-2004 08:13	1.0	0.6887	5	1	1	spk	
029	219_029	MSS	173819-001	93561	Soil	07-AUG-2004 08:43	1.0						
030	219_030	SAMPLE	173819-002	93561	Soil	07-AUG-2004 09:12	1.0	0.6698	5	2	1	spk	
031	219_031	SAMPLE	173863-001	93561	Miscel	07-AUG-2004 09:41	2.0	0.6766	5	2	1	spk	
033	219_033	PEM				07-AUG-2004 10:40	1.0	1.0			1	1	
034	219_034	CCV	pest_4			07-AUG-2004 11:09	1.0	1.0	5		1	5	
035	219_035	X	pest_4			07-AUG-2004 11:38	1.0					5	
036	219_036	X				07-AUG-2004 12:07	1.0	1.0			1	1	
038	219_038	BLANK	QC260340	93531	Soil	07-AUG-2004 13:06	1.0	0.6566	5	1	1		
039	219_039	LCS	QC260341	93531	Soil	07-AUG-2004 13:35	1.0	0.675	5	6	1	spk	
040	219_040	MS	QC260342	93531	Soil	07-AUG-2004 14:04	1.0						

Stds used: 1=04WS1389 2=04WS0929 3=04WS0928 4=04WS1385 5=04WS0926 6=04WS1375 7=04WS0924 8=04WS1374 9=04WS1240
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804316738 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 06-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
041	219_041	MSD	QC260343	93531	Soil	07-AUG-2004 14:34	1.0						
042	219_042	SAMPLE	173857-001	93531	Soil	07-AUG-2004 15:03	1.0						
043	219_043	MSS	173857-002	93531	Soil	07-AUG-2004 15:32	1.0						
044	219_044	SAMPLE	173859-001	93531	Soil	07-AUG-2004 16:01	1.0	0.6585	3		1	spk	
045	219_045	SAMPLE	173875-001	93531	Soil	07-AUG-2004 16:30	1.0						
046	219_046	SAMPLE	173875-002	93531	Soil	07-AUG-2004 17:00	1.0						
048	219_048	PEM				07-AUG-2004 17:58	1.0	1.0			1	1	
049	219_049	X	pest_3			07-AUG-2004 18:27	1.0					4	
050	219_050	CCV	pest_3			07-AUG-2004 18:57	1.0	1.0	5		1	4	
051	219_051	X	pest_5			07-AUG-2004 19:26	1.0					6	
052	219_052	X				07-AUG-2004 19:55	1.0	1.0			1	1	

27

Stds used: 1=04WS1389 2=04WS0929 3=04WS0928 4=04WS1385 5=04WS0926 6=04WS1375 7=04WS0924 8=04WS1374 9=04WS1240
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804320349 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 09-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
005	222_005	X	pest_4			09-AUG-2004 11:09	1.0					1	
006	222_006	X	pest_4			09-AUG-2004 11:39	1.0					1	
007	222_007	PEM				09-AUG-2004 12:24	1.0	1.0			1	2	
008	222_008	X	pest_4			09-AUG-2004 12:53	1.0	1.0			1	1 ac	
009	222_009	CCV	pest_4			09-AUG-2004 13:22	1.0	1.0	17		1	1 ac	
010	222_010	X	hex			09-AUG-2004 13:51	1.0						
011	222_011	LCS	QC260454	93561	Soil	09-AUG-2004 14:32	1.0	0.6757	21	1	1	<ac	
012	222_012	LCS	QC260341	93531	Soil	09-AUG-2004 15:01	1.0	0.675	21	10	1	spk<ac	
013	222_013	SAMPLE	173804-001	93561	Soil	09-AUG-2004 15:30	1.0	0.6826	15		1	<ac	
014	222_014	SAMPLE	173804-002	93561	Soil	09-AUG-2004 16:00	1.0	0.6887	15	1	1	<ac	
015	222_015	SAMPLE	173875-001	93531	Soil	09-AUG-2004 16:29	1.0	0.6662	15	3	1	spk<ac	
016	222_016	SAMPLE	173875-002	93531	Soil	09-AUG-2004 16:58	1.0	0.6684	15		1	spk<ac	
017	222_017	LCS	QC260341	93531	Soil	09-AUG-2004 19:59	1.0	0.675	21	1	1	<ac	
018	222_018	MS	QC260342	93531	Soil	09-AUG-2004 20:28	1.0	0.6754	21	1	1	<ac	
019	222_019	MSD	QC260343	93531	Soil	09-AUG-2004 20:57	1.0	0.6757	21	1	1	<ac	
020	222_020	SAMPLE	173859-001	93531	Soil	09-AUG-2004 21:26	1.0	0.6585	15		1	<ac	
021	222_021	X	hex			09-AUG-2004 21:56	1.0						
022	222_022	PEM				09-AUG-2004 22:25	1.0	1.0			1	2	
023	222_023	CCV	ccv			09-AUG-2004 22:54	1.0	1.0	9		1	3	
024	222_024	X	pest_3			09-AUG-2004 23:23	1.0				1	3 ac	
025	222_025	X	pem			09-AUG-2004 23:52	1.0	1.0			1	2	

Stds used: 1=04WS0926 2=04WS1389 3=04WS1385
Flags used: <=opening ac=average CCV drift out spk=5% spike rule

SEQUENCE SUMMARY FOR 173859 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804322003 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
004	223_004	PEM				10-AUG-2004 14:43	1.0	1.0			1	1	
005	223_005	CCV	pest_4			10-AUG-2004 15:13	1.0	1.0	6		1	2	
006	223_006	X	pest_4			10-AUG-2004 15:42	1.0	1.0			1	2 ac	
008	223_008	BLANK	QC260692	93623	Soil	10-AUG-2004 18:42	1.0	0.6601	5		1		
009	223_009	LCS	QC260693	93623	Soil	10-AUG-2004 19:11	1.0	0.6752	9	7	1		
010	223_010	MSS	173866-001	93623	Soil	10-AUG-2004 19:40	5.0	0.6702	5	1	1		
011	223_011	SAMPLE	173866-002	93623	Soil	10-AUG-2004 20:09	5.0	0.6671	5	1	1		
012	223_012	MS	QC260694	93623	Soil	10-AUG-2004 20:39	5.0	0.677	9	9	1		
013	223_013	MSD	QC260695	93623	Soil	10-AUG-2004 21:08	5.0	0.6739	9	4	1		
014	223_014	X	hex			10-AUG-2004 21:37	1.0						
015	223_015	SAMPLE	173857-001	93531	Soil	10-AUG-2004 22:06	1.0	0.6709	4	1	1		
016	223_016	MSS	173857-002	93531	Soil	10-AUG-2004 22:36	1.0	0.6709	5		1		
017	223_017	MS	QC259858	93406	Soil	10-AUG-2004 23:05	5.0	0.6691	9	1	1		
018	223_018	MSD	QC259859	93406	Soil	10-AUG-2004 23:34	5.0	0.6752	9	2	1		
020	223_020	PEM				11-AUG-2004 00:33	1.0	1.0			1	1	
021	223_021	CCV	ccv			11-AUG-2004 01:02	1.0	1.0	8		1	3	
022	223_022	X	pest_3			11-AUG-2004 01:31	1.0					3	
023	223_023	X	pest_5			11-AUG-2004 02:00	1.0					4	
024	223_024	X	pem			11-AUG-2004 02:29	1.0	1.0			1	1	

Stds used: 1=04WS1389 2=04WS0926 3=04WS1385 4=04WS1375
Flags used: ac=average CCV drift out

Reporting Summary for 173859 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173859-001	alpha-BHC	GC23	B	08/09/04 21:26
173859-001	beta-BHC	GC23	B	08/09/04 21:26
173859-001	gamma-BHC	GC23	B	08/09/04 21:26
173859-001	delta-BHC	GC23	B	08/09/04 21:26
173859-001	Heptachlor	GC23	B	08/09/04 21:26
173859-001	Aldrin	GC23	B	08/09/04 21:26
173859-001	Heptachlor epoxide	GC23	B	08/09/04 21:26
173859-001	Endosulfan I	GC23	B	08/09/04 21:26
173859-001	Dieldrin	GC23	B	08/09/04 21:26
173859-001	4,4'-DDE	GC23	B	08/09/04 21:26
173859-001	Endrin	GC23	B	08/09/04 21:26
173859-001	Endosulfan II	GC23	B	08/09/04 21:26
173859-001	Endosulfan sulfate	GC23	B	08/09/04 21:26
173859-001	4,4'-DDD	GC23	B	08/09/04 21:26
173859-001	Endrin ketone	GC23	B	08/09/04 21:26
173859-001	4,4'-DDT	GC23	B	08/09/04 21:26
173859-001	Chlordane (Technical)	GC23	A	08/09/04 21:26
173859-001	alpha-Chlordane	GC23	B	08/09/04 21:26
173859-001	gamma-Chlordane	GC23	B	08/09/04 21:26
173859-001	Methoxychlor	GC23	B	08/09/04 21:26
173859-001	Toxaphene	GC23	A	08/09/04 21:26
173859-001	TCMX	GC23	B	08/09/04 21:26
173859-001	Decachlorobiphenyl	GC23	B	08/09/04 21:26
QC260340	alpha-BHC	GC23	B	08/07/04 13:06
QC260340	beta-BHC	GC23	B	08/07/04 13:06
QC260340	gamma-BHC	GC23	B	08/07/04 13:06
QC260340	delta-BHC	GC23	B	08/07/04 13:06
QC260340	Heptachlor	GC23	B	08/07/04 13:06
QC260340	Aldrin	GC23	B	08/07/04 13:06
QC260340	Heptachlor epoxide	GC23	B	08/07/04 13:06
QC260340	Endosulfan I	GC23	B	08/07/04 13:06
QC260340	Dieldrin	GC23	B	08/07/04 13:06
QC260340	4,4'-DDE	GC23	B	08/07/04 13:06
QC260340	Endrin	GC23	B	08/07/04 13:06
QC260340	Endosulfan II	GC23	B	08/07/04 13:06
QC260340	Endosulfan sulfate	GC23	B	08/07/04 13:06
QC260340	4,4'-DDD	GC23	B	08/07/04 13:06
QC260340	Endrin ketone	GC23	B	08/07/04 13:06
QC260340	4,4'-DDT	GC23	B	08/07/04 13:06
QC260340	Chlordane (Technical)	GC23	B	08/07/04 13:06
QC260340	alpha-Chlordane	GC23	B	08/07/04 13:06
QC260340	gamma-Chlordane	GC23	B	08/07/04 13:06
QC260340	Methoxychlor	GC23	B	08/07/04 13:06
QC260340	Toxaphene	GC23	B	08/07/04 13:06
QC260340	TCMX	GC23	B	08/07/04 13:06
QC260340	Decachlorobiphenyl	GC23	B	08/07/04 13:06
QC260341	gamma-BHC	GC23	B	08/09/04 19:59
QC260341	Heptachlor	GC23	B	08/09/04 19:59
QC260341	Aldrin	GC23	B	08/09/04 19:59
QC260341	Dieldrin	GC23	B	08/09/04 19:59
QC260341	Endrin	GC23	B	08/09/04 19:59
QC260341	4,4'-DDT	GC23	B	08/09/04 19:59

Reporting Summary for 173859 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC260341	TCMX	GC23	B	08/09/04 19:59
QC260341	Decachlorobiphenyl	GC23	B	08/09/04 19:59
QC260342	gamma-BHC	GC23	B	08/09/04 20:28
QC260342	Heptachlor	GC23	B	08/09/04 20:28
QC260342	Aldrin	GC23	B	08/09/04 20:28
QC260342	Dieldrin	GC23	B	08/09/04 20:28
QC260342	Endrin	GC23	B	08/09/04 20:28
QC260342	4,4'-DDT	GC23	B	08/09/04 20:28
QC260342	TCMX	GC23	B	08/09/04 20:28
QC260342	Decachlorobiphenyl	GC23	B	08/09/04 20:28
QC260343	gamma-BHC	GC23	B	08/09/04 20:57
QC260343	Heptachlor	GC23	B	08/09/04 20:57
QC260343	Aldrin	GC23	B	08/09/04 20:57
QC260343	Dieldrin	GC23	B	08/09/04 20:57
QC260343	Endrin	GC23	B	08/09/04 20:57
QC260343	4,4'-DDT	GC23	B	08/09/04 20:57
QC260343	TCMX	GC23	B	08/09/04 20:57
QC260343	Decachlorobiphenyl	GC23	B	08/09/04 20:57

Curtis & Tompkins Laboratories **Sample Preparation Summary** **06-AUG-2004 16:58**

Batch Number : 93531
Date Extracted: 06-AUG-2004
Extracted by : Brook N. Buswell
Prep Method : 3550

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993A
Spike #2 ID : 04WS0840C
Spike #3 ID :
SOP Version : 8081s_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173857-001			Treadwell & Rollo	Soil	29.81	g	20	0.670916	1		.02	0		8081	3260B	
173857-002			Treadwell & Rollo	Soil	29.81	g	20	0.670916	1		.02	0		8081	3260B	mss
173859-001			Treadwell & Rollo	Soil	30.37	g	20	0.658545	1		.02	0		8081	3260B	
173875-001			Treadwell & Rollo	Soil	30.02	g	20	0.666223	1		.02	0		8081	3260B	
173875-002			Treadwell & Rollo	Soil	29.92	g	20	0.668449	1		.02	0		8081	3260B	
QC260340	MB			Soil	30.46	g	20	0.656599	1		.02	0		8081	3260B	
QC260341	LCS			Soil	29.63	g	20	0.674992	1		.02	1		8081	3260B	
QC260342	MS	of 173857-002		Soil	29.61	g	20	0.675447	1		.02	1		8081	3260B	
QC260343	MSD	of 173857-002		Soil	29.6	g	20	0.675676	1		.02	1		8081	3260B	

Prep Chemist: by B.B. 8/6/04 Reviewed By: [signature] Date: 8/06/04

Relinquished By: by B.B. 8/6/04 Received By: [signature] Date: 8/10/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 93531
LIMS Analysis: PEST/8081
Extracted by: BB
Date Extracted: 8/6/04

Extraction Method:
- ☒ EPA 3550b Sonication
- ☐ EPA 3545 PFE (Mth#_____)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
173857-001 A	29.81	20.0	X	
-002	29.81			MSS
173859-001	30.37			
MB QC260340	30.46			
LCS 41	29.63			
MS 42	29.61			
MSD 43	29.60			
173875-001	30.02	20.0	X	added after gel and pg. MSS.2X SURR BB 8/6/04
-002	29.92			

BB 8/6/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM4A 3310410	BB 8/6/04
dried with CH_2Cl_2-rinsed ☒ ~~granular~~ powdered Na_2SO_4 ☐ diatomaceous earth	EM 4321415	
0.02 mL of surrogate solution was added to all samples	04WS0993 A	
1.0 mL of spike solution was added to all spikes	04WS0840 C	
1:1 CH_2Cl_2 (lot# EM4416) : Acetone (lot# EM4477) was added to all	✓	
☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	NA	
Soxhlets on at:	NA	
Soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM4321415	
Exchanged 2x with Hexane	BJCK898	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil	✓	

8/6/04
Extraction Chemist / Date

Continued from page _____
Continued on page _____

Bryan Hutt 8/06/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: BB
Cleanup Date: 8/6/04

Benchbook # **BK 1851**
Page 80

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
173857-001	83531	1.0	1.0	
↓ -002	↓	↓	↓	
173859-001				
MB QC260340				
LCS 41				
MS 42				
MSD 43				

BB 8/6/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	204120-AQ	BB 8/6/04
Florisil cartridges/ columns rinsed 3x with Hexane	BJCK898	
Extracts were eluted with ~~10~~ 19 mL 9:1 Hexane/Acetone BB 8/6/04 — Hexane	↓	↓
Acetone	EM 44148	
Concentrated to volumes as noted above	✓	

8/6/04
Extraction Chemist / Date

Continued on page ↓
Continued on page ↓

8/6/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: SFK

Cleanup Date: 08/06/04

Benchbook # **BK 1851**

Page 82

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
173875-001	93531	1.0	1.0	
↓ -002	↓	↓	↓	

	Mfg & Lot # / Time / Program	Initials / Date
❑ Extracts were cleaned up using Florisil cartridges	NA	NA
Florisil cartridges/ columns rinsed 3x with Hexane	[illegible]	SFK 8/06/04
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	↓	
Acetone	EM 4/4/99	
Concentrated to volumes as noted above	✓	✓

8/06/04

Extraction Chemist / Date

Continued from page ___
Continued on page ___

8/6/04

Reviewed by / Date

Sample ID	Weight(g)	Analyses	Comments
173853-001A	29.76	8310	MSS, in plastic bag
MB	30.09	↓	EM433104 10
LCS	29.68	↓	↓
MS	30.12	↓	173853-001
MSD	30.16	↓	↓
173859-001A	30.37	8081	
173857-001 ↓	29.81	↓	
↓ -002 ↓	29.81	↓	MSS
MB	30.46	↓	EM 433104 10
LCS	29.63	↓	↓
MS	29.61	↓	173857-002
MSD	29.60	↓	↓
173859-001 A	29.67	PCB	
173857-001 ↓	30.22	↓	MSS
↓ -002 ↓	29.78	↓	
MB	30.21	↓	EM433104 10
LCS	29.57	↓	↓
MS	29.62	↓	173857-001
MSD	29.94	↓	↓

SCK 8/5/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 8/5/04

Signed: Date:

Notebook No. 1964

Continued From Page

SUBJECT SOIL ALIQUOT

SAMPLE ID	WEIGHT (g)	ANALYSES	COMMENTS
173875-002A	30.72	PCB	
173875-001	29.64	PCB	MSS
MB 30.01	30.01		EM443310410
LCS	29.51		
MS	29.75		173875-001 A
MSD	29.82		
173875-001 A	30.02	PEST	
-002	29.92		MSS
MB	30.41		EM443310410
LCS	29.94		
MS	29.62		173875-002 A
MSD	30.06		

BB 8/6/04

Continued on Page

Read and Understood By

8/6/04

Pesticides by EPA 8081	**GC_14a**	**GC_14b**	**GC_16a**	**GC_16b**	**GC_21a**	**GC_21b**
EPA 3550 Soil MDLs (ug/Kg)	5/08/03	5/08/03	4/16/04	4/16/04	4/28/04	4/28/04
Aldrin	0.56	0.60	0.93	0.94	0.70	0.74
a-BHC	0.55	0.56	0.87	0.77	0.37	0.65
b-BHC	0.74	0.60	0.68	0.90	0.42	0.65
d-BHC	0.59	0.61	1.0	0.93	0.53	1.2
g-BHC (Lindane)	0.64	0.48	0.95	0.78	0.30	0.65
4,4'-DDD	0.66	0.63	1.9	1.8	0.72	0.71
4,4'-DDE	0.54	0.50	2.0	2.0	0.86	0.72
4,4'-DDT	1.2	0.74	2.7	2.2	1.8	0.58
alpha-Chlordane	0.61	0.57	0.99	1.0	0.71	0.55
gamma-Chlordane	0.57	0.55	0.97	1.0	0.78	0.63
Dieldrin	0.57	0.51	2.0	2.0	0.67	0.75
Endosulfan I	0.50	0.55	1.0	1.0	1.4	1.2
Endosulfan II	0.67	0.62	1.9	1.7	1.5	1.4
Endosulfan sulfate	0.68	0.66	1.8	1.8	1.2	0.69
Endrin	0.65	0.54	2.2	2.0	0.74	0.68
Endrin aldehyde	0.50	0.56	1.9	1.8	0.87	0.79
Endrin ketone	0.83	0.65	1.9	1.7	1.2	0.79
Heptachlor	0.76	0.67	1.3	1.1	0.30	0.64
Heptachlor epoxide	0.60	0.62	1.1	1.1	0.73	0.80
Methoxychlor	1.1	3.1	11	10	4.2	1.6

	GC_14a	**GC_14b**	**GC_16a**	**GC_16b**	**GC_21a**	**GC_21b**
	4/17/04	4/17/04	4/09/04	4/09/04	4/30/04	4/30/04
Chlordane (technical)	15	13	4.8	3.8	6.1	6.2

	GC_14a	**GC_14b**	**GC_16a**	**GC_16b**	**GC_21a**	**GC_21b**
	4/19/04	4/19/04	4/10/04	4/10/04	4/30/04	4/30/04
Toxaphene	25	18	29	12	36	15

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX107[0.5]	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/06/04
Diln Fac:	1.000	Analyzed:	08/06/04
Batch#:	93532		

Type:	SAMPLE	Moisture:	3%
Lab ID:	173859-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	13
Aroclor-1221	ND	25
Aroclor-1232	ND	13
Aroclor-1242	ND	13
Aroclor-1248	ND	13
Aroclor-1254	ND	13
Aroclor-1260	ND	13

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	75	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC260344	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	70	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260345	Batch#:	93532
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/06/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	169.1	192.4	114	80-129
Aroclor-1260	169.1	203.2	120	80-131

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	87	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX108[0.5]	Batch#:	93532
MSS Lab ID:	173857-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	as received	Analyzed:	08/06/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC260346

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<9.000	168.8	164.5	97	65-155
Aroclor-1260	<3.900	168.8	186.3	110	63-127

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	82	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC260347

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	167.0	168.4	101	65-155	3	27
Aroclor-1260	167.0	158.2	95	63-127	15	34

Surrogate	%REC	Limits
TCMX	100	65-135
Decachlorobiphenyl	69	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	215_013	204310220013	pcb10_2	02-AUG-2004 21:40	04WS0970
2	215_014	204310220014	pcb25_5	02-AUG-2004 22:13	04WS0960
3	215_015	204310220015	pcb100_20	02-AUG-2004 22:46	04WS0961
4	215_016	204310220016	pcb250_50	02-AUG-2004 23:19	04WS0962
5	215_017	204310220017	pcb500_100	02-AUG-2004 23:52	04WS0963
6	215_018	204310220018	pcb750_150	03-AUG-2004 00:25	04WS0964
7	215_019	204310220019	pcb1K_200	03-AUG-2004 00:59	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	222.19	249.72	232.92	240.39	205.76	174.68	193.06	AVRG	R		0.004609		pg	216.96	12	.99	20	
Aroclor-1016 Peak # 2	A	562.53	501.92	460.15	463.25	377.78	318.34	349.18	AVRG	R		0.002308		pg	433.31	20	.99	20	
Aroclor-1016 Peak # 3	A	484.79	515.26	522.06	533.70	436.50	367.63	418.20	AVRG	R		0.002135		pg	468.31	13	.99	20	
Aroclor-1016 Peak # 4	A	311.49	350.77	348.34	364.70	297.87	262.44	298.62	AVRG	R		0.003133		pg	319.17	11	.99	20	
Aroclor-1016 Peak # 5	A	272.20	286.48	281.40	288.62	237.23	198.13	226.63	AVRG	R		0.003909		pg	255.81	14	.99	20	
Aroclor-1260 Peak # 1	A	534.49	557.25	558.61	543.99	422.20	344.29	396.21	AVRG	R		0.002085		pg	479.58	19	.99	20	
Aroclor-1260 Peak # 2	A	904.42	888.70	849.86	860.45	672.00	546.32	638.04	AVRG	R		0.001306		pg	765.68	19	.99	20	
Aroclor-1260 Peak # 3	A	480.31	419.58	458.34	454.57	367.56	297.31	349.09	AVRG	R		0.002476		pg	403.82	17	.99	20	
Aroclor-1260 Peak # 4	A	363.33	365.28	397.28	433.25	344.26	284.33	341.69	AVRG	R		0.002767		pg	361.35	13	.99	20	
Aroclor-1260 Peak # 5	A	868.22	928.30	936.04	985.95	789.30	648.83	768.31	AVRG	R		0.001181		pg	846.42	14	.99	20	
TCMX	A	9152.2	9977.5	9263.6	9902.9	8412.0	7286.0	8156.7	AVRG	R		1.126E-4		pg	8878.7	11	.99	20	
Decachlorobiphenyl	A	10877	10709	9872.1	12832	7437.8			AVRG	R		9.666E-5		pg	10346	19	.99	20	
Aroclor-1016 Peak # 1	B	242.83	242.17	239.76	258.59	221.85	183.59	206.89	AVRG	R		0.004387		pg	227.95	11	.99	20	
Aroclor-1016 Peak # 2	B	301.07	317.39	329.13	342.65	279.81	238.92	270.55	AVRG	R		0.003366		pg	297.07	12	.99	20	
Aroclor-1016 Peak # 3	B	1225.7	1232.9	1179.3	1198.8	944.96	806.07	890.17	AVRG	R		9.361E-4		pg	1068.3	17	.99	20	
Aroclor-1016 Peak # 4	B	465.77	502.61	466.00	483.84	385.83	333.37	369.79	AVRG	R		0.002328		pg	429.60	15	.99	20	
Aroclor-1016 Peak # 5	B	322.46	326.55	314.99	326.70	268.97	229.90	262.36	AVRG	R		0.003411		pg	293.13	13	.99	20	
Aroclor-1260 Peak # 1	B	804.92	843.20	864.53	921.86	729.59	623.19	723.59	AVRG	R		0.001270		pg	787.27	13	.99	20	
Aroclor-1260 Peak # 2	B	1254.5	1305.5	1297.8	1345.0	1066.2	886.63	1041.3	AVRG	R		8.540E-4		pg	1171.0	15	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: CW
Calnum: 204310220001 Name: Type: (normal) Date: 02-AUG-2004 21:40 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	836.14	872.35	845.26	901.05	740.38	622.22	753.05	AVRG	R		0.001257		pg	795.78	12	.99	20	
Aroclor-1260 Peak # 4	B	708.28	658.49	677.16	709.83	592.01	499.26	605.88	AVRG	R		0.001573		pg	635.85	12	.99	20	
Aroclor-1260 Peak # 5	B	1689.9	1627.7	1611.2	1813.1	1468.9	1232.9	1501.8	AVRG	R		6.395E-4		pg	1563.6	12	.99	20	
TCMX	B	10333	11533	11102	11785	9884.1	8500.3	9395.7	AVRG	R		9.651E-5		pg	10362	12	.99	20	
Decachlorobiphenyl	B	12402	11918	11586	15972	9357.4			AVRG	R		8.165E-5		pg	12247	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb250_50 IDF : 1.0
Seqnum : 204315074031 Filename : 218_031 Injected : 06-AUG-2004 11:17
Calnum : 204310220001 Caldate : 02-AUG-2004 Caltype :
Standards: 04WS0962

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	262.7496	pg	5	15	
Aroclor-1260	A			250.0000	258.7410	pg	3	15	
TCMX	A	8878.7	9641.9	50.00000	54.29812	pg	9	15	
Decachlorobiphenyl	A	10346	11856	50.00000	57.29851	pg	15	15	
Aroclor-1016	B			250.0000	243.2813	pg	-3	15	
Aroclor-1260	B			250.0000	243.1013	pg	-3	15	
TCMX	B	10362	10830	50.00000	52.25729	pg	5	15	
Decachlorobiphenyl	B	12247	13654	50.00000	55.74576	pg	11	15	

CONTINUING CALIBRATION REPORT FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb500_100 IDF : 1.0
Seqnum : 204315074047 Filename : 218_047 Injected : 06-AUG-2004 23:02
Calnum : 204310220001 Caldate : 02-AUG-2004 Caltype :
Standards: 04WS0963

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	532.8402	pg	7	15	
Aroclor-1260	A			500.0000	536.7771	pg	7	15	
TCMX	A	8878.7	9331.2	100.0000	105.0970	pg	5	15	
Decachlorobiphenyl	A	10346	8681.1	100.0000	83.91172	pg	-16	15	c- *
Aroclor-1016	B			500.0000	482.4728	pg	-4	15	
Aroclor-1260	B			500.0000	510.2568	pg	2	15	
TCMX	B	10362	10417	100.0000	100.5340	pg	1	15	
Decachlorobiphenyl	B	12247	10053	100.0000	82.08120	pg	-18	15	c- *

Pass Limits:
65-135

-=low bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204310220 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 02-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
002	215_002	X	ccv			02-AUG-2004 10:20	1.0					1	
003	215_003	CCV	pcb250_50			02-AUG-2004 10:53	1.0		1			1	
012	215_012	X	hex			02-AUG-2004 21:06	1.0						
013	215_013	ICAL	pcb10_2			02-AUG-2004 21:40	1.0					2	
014	215_014	ICAL	pcb25_5			02-AUG-2004 22:13	1.0					3	
015	215_015	ICAL	pcb100_20			02-AUG-2004 22:46	1.0					4	
016	215_016	ICAL	pcb250_50			02-AUG-2004 23:19	1.0					1	
017	215_017	ICAL	pcb500_100			02-AUG-2004 23:52	1.0					5	
018	215_018	ICAL	pcb750_150			03-AUG-2004 00:25	1.0					6	
019	215_019	ICAL	pcb1K_200			03-AUG-2004 00:59	1.0					7	
021	215_021	ICV	accu_1660			03-AUG-2004 02:05	1.0		1			8	
022	215_022	X	icv			03-AUG-2004 02:38	1.0					8	
023	215_023	X	icv			03-AUG-2004 03:11	1.0					9	
026	215_026	ICAL	pcb250_50			03-AUG-2004 12:25	1.0					1	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423

SEQUENCE SUMMARY FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204315074 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 05-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	218_002	CCV	pcb250_50			05-AUG-2004 19:14	1.0	1.0			1	1	
003	218_003	X	ccv			05-AUG-2004 19:47	1.0					1	
004	218_004	CCV	ar1254			05-AUG-2004 20:20	1.0	1.0			1	2	
005	218_005	X	ccv			05-AUG-2004 20:54	1.0					2	
007	218_007	BLANK	QC260127	93474	Soil	05-AUG-2004 22:00	1.0	0.8275			1		
008	218_008	BLANK	QC260197	93492	Water	05-AUG-2004 22:33	1.0	0.025			1		
009	218_009	BS	QC260198	93492	Water	05-AUG-2004 23:07	1.0	0.025			1		
010	218_010	BSD	QC260199	93492	Water	05-AUG-2004 23:40	1.0	0.025		1	1		
011	218_011	SAMPLE	173724-001	93492	Water	06-AUG-2004 00:13	1.0	0.02381		2	1		
012	218_012	LCS	QC260128	93474	Soil	06-AUG-2004 00:46	1.0	0.8389			1		
013	218_013	MS	QC260129	93474	Soil	06-AUG-2004 01:19	1.0	0.8437			1		
014	218_014	MSD	QC260130	93474	Soil	06-AUG-2004 01:53	1.0	0.8347			1		
015	218_015	MSS	173766-013	93474	Soil	06-AUG-2004 02:26	1.0	0.8463			1		
016	218_016	SAMPLE	173766-001	93474	Soil	06-AUG-2004 02:59	1.0	0.8311			1		
018	218_018	CCV	pcb500_100			06-AUG-2004 04:05	1.0	1.0			1	3	
019	218_019	X	ccv			06-AUG-2004 04:38	1.0					3	
020	218_020	CCV	ar1254			06-AUG-2004 05:12	1.0	1.0			1	2	
021	218_021	X	ccv			06-AUG-2004 05:45	1.0					2	
023	218_023	SAMPLE	173766-002	93474	Soil	06-AUG-2004 06:51	2.0	0.8395		1	1		
024	218_024	SAMPLE	173766-003	93474	Soil	06-AUG-2004 07:24	2.0	0.842		1	1		
025	218_025	SAMPLE	173766-004	93474	Soil	06-AUG-2004 07:58	5.0	0.8449	1	1	1		2:PCB126=2748.46
026	218_026	SAMPLE	173766-005	93474	Soil	06-AUG-2004 08:31	1.0	0.8406		1	1		
027	218_027	SAMPLE	173718-017	93426	Soil	06-AUG-2004 09:04	5.0	0.8342			1		
028	218_028	SAMPLE	173718-020	93426	Soil	06-AUG-2004 09:37	5.0	0.837			1		
030	218_030	X	ccv			06-AUG-2004 10:44	1.0					1	
031	218_031	CCV	pcb250_50			06-AUG-2004 11:17	1.0	1.0			1	1	
032	218_032	X	ccv			06-AUG-2004 11:50	1.0					2	
033	218_033	CCV	ar1254			06-AUG-2004 12:23	1.0	1.0			1	2	
035	218_035	BLANK	QC260344	93532	Soil	06-AUG-2004 13:53	1.0	0.8275			1		
036	218_036	LCS	QC260345	93532	Soil	06-AUG-2004 14:26	1.0	0.8455		1	1		
037	218_037	MS	QC260346	93532	Soil	06-AUG-2004 14:59	1.0	0.844			1		

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963

SEQUENCE SUMMARY FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204315074 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 05-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
038	218_038	MSD	QC260347	93532	Soil	06-AUG-2004 15:33	1.0	0.835			1		
039	218_039	MSS	173857-001	93532	Soil	06-AUG-2004 16:06	1.0	0.8273			1		
040	218_040	SAMPLE	173857-002	93532	Soil	06-AUG-2004 19:10	1.0	0.8395			1		
041	218_041	SAMPLE	173859-001	93532	Soil	06-AUG-2004 19:43	1.0	0.8426			1		
042	218_042	SAMPLE	173766-006	93474	Soil	06-AUG-2004 20:16	1.0	0.8446			1		
043	218_043	SAMPLE	173875-001	93532	Soil	06-AUG-2004 20:49	1.0	0.8435		4	1		
044	218_044	SAMPLE	173875-002	93532	Soil	06-AUG-2004 21:22	1.0	0.8138		4	1		
046	218_046	X	ccv			06-AUG-2004 22:29	1.0					3	
047	218_047	CCV	pcb500_100			06-AUG-2004 23:02	1.0	1.0			1	3	
051	218_051	BLANK	QC259994	93443	Filtra	07-AUG-2004 01:15	1.0	0.025			1		
052	218_052	LCS	QC259995	93443	Filtra	07-AUG-2004 01:48	1.0	0.025	1	1	1		
053	218_053	MS	QC259996	93443	Filtra	07-AUG-2004 02:21	1.0	0.025	1		1		
054	218_054	MSD	QC259997	93443	Filtra	07-AUG-2004 02:54	1.0	0.025	1		1		
055	218_055	BLANK	QC260321	93527	Soil	07-AUG-2004 03:28	1.0	0.6784			1		
056	218_056	LCS	QC260322	93527	Soil	07-AUG-2004 04:01	1.0	0.6859	1		1		
057	218_057	MS	QC260323	93527	Soil	07-AUG-2004 04:34	1.0						
058	218_058	MSD	QC260324	93527	Soil	07-AUG-2004 05:07	1.0						
059	218_059	SAMPLE	173735-012	93443	Filtra	07-AUG-2004 05:41	1.0	0.025			1		
060	218_060	MSS	173735-013	93443	Filtra	07-AUG-2004 06:14	1.0	0.025			1		
062	218_062	CCV	pcb250_50			07-AUG-2004 07:20	1.0	1.0	1		1	1	
063	218_063	X	ccv			07-AUG-2004 07:54	1.0					1	
067	218_067	SAMPLE	173766-009	93474	Soil	07-AUG-2004 10:07	1.0						
068	218_068	SAMPLE	173766-010	93474	Soil	07-AUG-2004 10:40	1.0						
069	218_069	SAMPLE	173766-011	93474	Soil	07-AUG-2004 11:13	1.0						
070	218_070	SAMPLE	173766-012	93474	Soil	07-AUG-2004 11:46	1.0						
071	218_071	SAMPLE	173766-014	93474	Soil	07-AUG-2004 12:20	1.0						
072	218_072	SAMPLE	173766-015	93474	Soil	07-AUG-2004 12:53	1.0						
073	218_073	SAMPLE	173766-016	93474	Soil	07-AUG-2004 13:26	1.0						
074	218_074	SAMPLE	173766-017	93474	Soil	07-AUG-2004 13:59	1.0						
075	218_075	SAMPLE	173766-018	93474	Soil	07-AUG-2004 14:33	1.0						
077	218_077	X	ccv			07-AUG-2004 15:39	1.0					3	

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963

SEQUENCE SUMMARY FOR 173859 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204315074 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 05-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
078	218_078	CCV	pcb500_100			07-AUG-2004 16:12	1.0	1.0			1	3	
093	218_093	CCV	pcb250_50			08-AUG-2004 00:32	1.0	1.0	1		1	1	
094	218_094	X	ccv			08-AUG-2004 01:05	1.0					1	
098	218_098	SAMPLE	173735-010	93527	Soil	08-AUG-2004 03:18	1.0						
099	218_099	SAMPLE	173735-011	93527	Soil	08-AUG-2004 03:51	1.0						
100	218_100	SAMPLE	173759-001	93527	Soil	08-AUG-2004 04:24	1.0						
101	218_101	SAMPLE	173759-002	93527	Soil	08-AUG-2004 04:58	1.0						
102	218_102	SAMPLE	173759-003	93527	Soil	08-AUG-2004 05:31	1.0						
103	218_103	SAMPLE	173759-004	93527	Soil	08-AUG-2004 06:04	1.0						
104	218_104	SAMPLE	173759-005	93527	Soil	08-AUG-2004 06:37	1.0						
105	218_105	MSS	173760-001	93527	Soil	08-AUG-2004 07:10	1.0						
106	218_106	SAMPLE	173783-004	93527	Soil	08-AUG-2004 07:44	1.0						
107	218_107	SAMPLE	173804-001	93527	Soil	08-AUG-2004 08:17	1.0						
109	218_109	X	ccv			08-AUG-2004 09:23	1.0					3	
110	218_110	CCV	pcb500_100			08-AUG-2004 09:57	1.0	1.0			1	3	
119	218_119	X	ccv			08-AUG-2004 14:55	1.0					1	
120	218_120	CCV	pcb250_50			08-AUG-2004 15:29	1.0	1.0	2		1	1	

Stds used: 1=04WS0962 2=04WS0546 3=04WS0963

Reporting Summary for 173859 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173859-001	Aroclor-1016	GC06	A	08/06/04 19:43
173859-001	Aroclor-1221	GC06	A	08/06/04 19:43
173859-001	Aroclor-1232	GC06	A	08/06/04 19:43
173859-001	Aroclor-1242	GC06	A	08/06/04 19:43
173859-001	Aroclor-1248	GC06	A	08/06/04 19:43
173859-001	Aroclor-1254	GC06	A	08/06/04 19:43
173859-001	Aroclor-1260	GC06	A	08/06/04 19:43
173859-001	TCMX	GC06	A	08/06/04 19:43
173859-001	Decachlorobiphenyl	GC06	A	08/06/04 19:43
QC260344	Aroclor-1016	GC06	B	08/06/04 13:53
QC260344	Aroclor-1221	GC06	B	08/06/04 13:53
QC260344	Aroclor-1232	GC06	B	08/06/04 13:53
QC260344	Aroclor-1242	GC06	B	08/06/04 13:53
QC260344	Aroclor-1248	GC06	B	08/06/04 13:53
QC260344	Aroclor-1254	GC06	B	08/06/04 13:53
QC260344	Aroclor-1260	GC06	B	08/06/04 13:53
QC260344	TCMX	GC06	B	08/06/04 13:53
QC260344	Decachlorobiphenyl	GC06	B	08/06/04 13:53
QC260345	Aroclor-1016	GC06	B	08/06/04 14:26
QC260345	Aroclor-1260	GC06	B	08/06/04 14:26
QC260345	TCMX	GC06	B	08/06/04 14:26
QC260345	Decachlorobiphenyl	GC06	B	08/06/04 14:26
QC260346	Aroclor-1016	GC06	B	08/06/04 14:59
QC260346	Aroclor-1260	GC06	B	08/06/04 14:59
QC260346	TCMX	GC06	B	08/06/04 14:59
QC260346	Decachlorobiphenyl	GC06	B	08/06/04 14:59
QC260347	Aroclor-1016	GC06	B	08/06/04 15:33
QC260347	Aroclor-1260	GC06	B	08/06/04 15:33
QC260347	TCMX	GC06	B	08/06/04 15:33
QC260347	Decachlorobiphenyl	GC06	B	08/06/04 15:33

Curtis & Tompkins Laboratories **Sample Preparation Summary** **06-AUG-2004 12:22**

Batch Number : 93532
Date Extracted: 06-AUG-2004
Extracted by : Amy Silverberg
Prep Method : 3550B

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343C
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version : PCB_s_rv7

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173857-001			Treadwell & Rollo	Soil	30.22	g	25	0.827267	1		.05	0		PCB	3665A	MSS
173857-002			Treadwell & Rollo	Soil	29.78	g	25	0.839490	1		.05	0		PCB	3665A	
173859-001			Treadwell & Rollo	Soil	29.67	g	25	0.842602	1		.05	0		PCB	3665A	
QC260344	MB			Soil	30.21	g	25	0.827541	1		.05	0		PCB	3665A	
QC260345	LCS			Soil	29.57	g	25	0.845451	1		.05	.05		PCB	3665A	
QC260346	MS	of 173857-001		Soil	29.62	g	25	0.844024	1		.05	.05		PCB	3665A	
QC260347	MSD	of 173857-001		Soil	29.94	g	25	0.835003	1		.05	.05		PCB	3665A	

Prep Chemist: A Silverberg Reviewed By: [signature] Date: 8/6/04

Relinquished By: A Silverberg Received By: [signature] Date: 08/06/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

LIMS Batch No: 93532
LIMS Analysis PCB
Extracted by: AMS
Date Extracted: 8/6/04

☑ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ EPA 3545 PFE (ASE Method# _____)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
173857-001 A	30.22	25.0	MSS
-002 A	29.78	↓	
173859-001 A	29.67		
MB QL260344	30.21		
LCS 45	29.57		
MS 46	29.62		
MSD 47	29.94	✓	

8/6/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM43310410	AMS 8/6/04
dried with CH_2Cl_2-rinsed ☑ ~~granular~~ powder Na_2SO_4 ☐ diatomaceous earth	EM43219415	↓
.05 mL of surrogate solution was added to all samples	04WS1343C	
.05 mL of spike solution 1660 was added to all spikes	04WS1320A	
1:1 CH_2Cl_2 (lot# EM44161):Acetone(lot# EM44179) was added to all	✓	
☑ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	N/A	
PFE (ASE) / soxhlets on at:	↓	
PFE (ASE) / soxhlets off at:	✓	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~granular~~ powdered Na_2SO_4	EM43219415	
Concentrated to volumes noted above after exchange to Hexane Lot#	BJCK898	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTB X26046	
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	

Wilverberg 8/6/04

Continued from page ___
Continued on page ___

8/6/04
Reviewed by / Date

Continued From Page

PROJECT Soil Aliquot

Sample ID	Weight(g)	Analytes	Comments
173853-001A	29.76	8310	MSS, in plastic bag
MB	30.09	↓	EM433 10410
LCS	29.68	↓	↓
MS	30.12	↓	173853-001
MSD	30.16	↓	↓
173859-001A	30.37	8081	
173857-001	29.81	↓	
↓ -002 ↓	29.81	↓	MSS
MB	30.46	↓	EM 433 10410
LCS	29.63	↓	↓
MS	29.61	↓	173857-002
MSD	29.60	↓	↓
173859-001 A	29.67	PCB	
173857-001	30.22	↓	MSS
↓ -002 ↓	29.78	↓	
MB	30.21	↓	EM 433 10410
LCS	29.57	↓	↓
MS	29.62	↓	173857-001
MSD	29.94	↓	↓

8/5/04

Continued on Page

Read and Understood By

Signed 8/5/04 Date

Signed Date

Continued From Page

PROJECT Soil Aliquot

Sample ID	Weight(g)	Analysis	Comments
173853-001A	29.76	8310	MSS in plastic bag
MB	30.09	↓	EM433104 10
LCS	29.68	↓	↓
MS	30.12	↓	173853-001
MSD	30.16	↓	↓
173859-001A	30.37	8081	
173857-001 ↓	29.81	↓	
↓ -002 ↓	29.81	↓	MSS
MB	30.46	↓	EM433104 10
LCS	29.63	↓	↓
MS	29.61	↓	173857-002
MSD	29.60	↓	↓
173859-001A	29.67	PCB	
173857-001 ↓	30.22	↓	MSS
↓ -002 ↓	29.78	↓	EM433104 10
MB	30.21	↓	↓
LCS	29.57	↓	173857-001
MS	29.62	↓	↓
MSD	29.94	↓	

SLA 8/5/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 8/5/04 Signed: Date:

PCBs	GC_06a	GC_06b	GC_22a	GC_22b		
Soil MDLs (ug/Kg)	12/19/03	12/19/03	12/19/03	12/19/03		
Aroclor 1016	3.9	9.0	2.2	2.4		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	4/10/04	4/10/04	4/19/04	4/19/04		
Aroclor 1221	18	15	12	12		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	2/18/04	2/18/04	2/17/04	2/17/04		
Aroclor 1232	4.0	4.8	8.5	8.8		
	GC_06a	**GC_06b**	**GC_14a**	**GC_14b**	**GC_22a**	**GC_22b**
	2/18/04	2/18/04	5/04/04	5/04/04	1/15/04	1/15/04
Aroclor 1242	5.5	5.1	4.1	3.5	3.2	1.9
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	12/11/03	12/11/03	1/23/04	1/23/04		
Aroclor 1248	3.1	3.4	3.2	7.8		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	8/12/03	8/12/03	7/26/03	7/26/03		
Aroclor 1254	5.4	3.2	2.6	1.8		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	12/19/03	12/19/03	12/19/03	12/19/03		
Aroclor 1260	3.9	3.9	1.7	4.5		

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX107[0.5]	Batch#:	93529
Lab ID:	173859-001	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	mg/Kg	Prepared:	08/05/04
Basis:	dry	Analyzed:	08/06/04
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL
Antimony	ND	2.8
Arsenic	2.8	0.24
Barium	15	0.47
Beryllium	0.12	0.095
Cadmium	ND	0.24
Chromium	41	0.47
Cobalt	6.1	0.95
Copper	3.7	0.47
Lead	3.0	0.14
Molybdenum	ND	0.95
Nickel	22	0.95
Selenium	ND	0.24
Silver	ND	0.24
Thallium	ND	0.24
Vanadium	35	0.47
Zinc	18	0.95

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260328	Batch#:	93529
Matrix:	Soil	Prepared:	08/05/04
Units:	mg/Kg	Analyzed:	08/06/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93529
Units:	mg/Kg	Prepared:	08/05/04
Basis:	as received	Analyzed:	08/06/04
Diln Fac:	1.000		

Type: BS Lab ID: QC260329

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	97.50	98	75-125
Arsenic	50.00	49.40	99	75-125
Barium	100.0	97.50	98	75-125
Beryllium	2.500	2.505	100	75-125
Cadmium	10.00	9.700	97	75-125
Chromium	100.0	98.00	98	75-125
Cobalt	25.00	24.35	97	75-125
Copper	12.50	12.70	102	75-125
Lead	100.0	98.50	99	75-125
Molybdenum	20.00	20.15	101	75-125
Nickel	25.00	24.30	97	75-125
Selenium	50.00	48.95	98	75-125
Silver	10.00	10.00	100	75-125
Thallium	50.00	48.90	98	75-125
Vanadium	25.00	24.95	100	75-125
Zinc	25.00	23.90	96	75-125

Type: BSD Lab ID: QC260330

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.50	100	75-125	2	30
Arsenic	50.00	49.90	100	75-125	1	30
Barium	100.0	98.50	99	75-125	1	30
Beryllium	2.500	2.530	101	75-125	1	30
Cadmium	10.00	9.800	98	75-125	1	30
Chromium	100.0	99.50	100	75-125	2	30
Cobalt	25.00	24.60	98	75-125	1	30
Copper	12.50	12.85	103	75-125	1	30
Lead	100.0	99.00	99	75-125	1	30
Molybdenum	20.00	20.45	102	75-125	1	30
Nickel	25.00	24.50	98	75-125	1	30
Selenium	50.00	49.20	98	75-125	1	30
Silver	10.00	10.05	101	75-125	0	30
Thallium	50.00	49.40	99	75-125	1	30
Vanadium	25.00	25.15	101	75-125	1	30
Zinc	25.00	24.15	97	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173859	Location:	Presidio - Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	93529
MSS Lab ID:	173840-001	Sampled:	08/04/04
Matrix:	Soil	Received:	08/04/04
Units:	mg/Kg	Prepared:	08/05/04
Basis:	as received	Analyzed:	08/06/04
Diln Fac:	1.000		

Type: MS Lab ID: QC260331

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	3.067	99.01	30.45	28 *	75-125
Arsenic	3.521	49.50	48.81	91	75-125
Barium	124.2	99.01	202.0	79	75-125
Beryllium	0.1825	2.475	2.406	90	75-125
Cadmium	1.129	9.901	9.257	82	75-125
Chromium	218.6	99.01	353.5	136 *	75-125
Cobalt	31.96	24.75	57.43	103	75-125
Copper	46.96	12.38	53.47	53 *	75-125
Lead	10.67	99.01	92.08	82	75-125
Molybdenum	0.3830	19.80	17.72	88	75-125
Nickel	437.6	24.75	569.3	532 NM	75-125
Selenium	<0.1800	49.50	44.85	91	75-125
Silver	<0.02800	9.901	9.554	97	75-125
Thallium	<0.1600	49.50	41.34	84	75-125
Vanadium	54.64	24.75	73.76	77	75-125
Zinc	67.01	24.75	79.21	49 *	75-125

Type: MSD Lab ID: QC260332

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	85.47	24.70	25 *	75-125	7	30
Arsenic	42.74	41.50	89	75-125	3	30
Barium	85.47	193.6	81	75-125	2	30
Beryllium	2.137	2.060	88	75-125	2	30
Cadmium	8.547	7.991	80	75-125	2	30
Chromium	85.47	343.2	146 *	75-125	1	30
Cobalt	21.37	49.15	80	75-125	9	30
Copper	10.68	82.91	336 NM	75-125	46 *	30
Lead	85.47	94.02	98	75-125	15	30
Molybdenum	17.09	15.00	86	75-125	2	30
Nickel	21.37	426.1	-54 NM	75-125	28	30
Selenium	42.74	37.65	88	75-125	3	30
Silver	8.547	8.162	96	75-125	1	30
Thallium	42.74	34.96	82	75-125	2	30
Vanadium	21.37	69.23	68 *	75-125	2	30
Zinc	21.37	90.17	108	75-125	17	30

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74315873020	Seqnum	: 74315873021
Filename	: tr244406	Filename	: tr244407
IDF	: 1.0	IDF	: 5.0
PDF	: 51.55	PDF	: 51.55
Run type	: MSS	Run type	: SER
Samplenum	: 173840-001	Samplenum	: QC260333
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93529	Batchnum	: 93529
Inj	: 06-AUG-2004 10:49	Inj	: 06-AUG-2004 10:56
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	3.09	ND	15.5	--	10	u
Arsenic	3.52	0.258	3.22	1.29	--	10	u
Barium	124	0.515	117	2.58	6	10	u
Beryllium	0.182	0.103	ND	0.515	--	10	u
Cadmium	1.13	0.258	ND	1.29	43	10	u
Calcium	*** usable MSS data not found ***						
Chromium	219	0.515	221	2.58	1	10	u
Cobalt	32.0	1.03	32.7	5.15	2	10	u
Copper	47.0	0.515	43.6	2.58	7	10	u
Iron	*** usable MSS data not found ***						
Lead	10.7	0.155	10.6	0.773	0	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	758	0.515	711	2.58	6	10	
Molybdenum	ND	1.03	ND	5.15	--	10	u
Nickel	438	1.03	459	5.15	5	10	u
Selenium	ND	0.258	ND	1.29	--	10	u
Silver	ND	0.258	ND	1.29	--	10	u
Thallium	ND	0.258	ND	1.29	--	10	u
Vanadium	54.6	0.515	54.1	2.58	1	10	u
Zinc	67.0	1.03	66.5	5.15	1	10	u
Titanium	*** usable MSS data not found ***						

u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 74315873020	Seqnum : 74315873023
Filename : tr244406	Filename : tr244409
IDF : 1.0	IDF : 1.0
PDF : 51.55	PDF : 51.55
Run type : MSS	Run type : PDS
Samplenum: 173840-001	Samplenum: QC260334
Matrix : Soil	Matrix : Soil
Batchnum : 93529	Batchnum : 93529
Inj : 06-AUG-2004 10:49	Inj : 06-AUG-2004 11:28
Units : ug/L	

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	59.50	2000.00000000001	1920	93	1-120	u
Arsenic	68.30	1000	971.0	90	57-120	u
Barium	2410	2000.00000000001	4180	89	52-134	u
Beryllium	3.540	50.0000000000001	48.50	90	65-120	u
Cadmium	21.90	200.000000000001	182.0	80	57-120	u
Calcium	*** usable MSS data not found ***					
Chromium	4240	2000.00000000001	5920	84	55-120	u
Cobalt	620.0	500.000000000001	1030	82	52-120	u
Copper	911.0	249.999999999999	1130	88	47-143	u
Iron	*** usable MSS data not found ***					
Lead	207.0	2000.00000000001	1930	86	42-125	u
Magnesium	*** usable MSS data not found ***					
Manganese	14700	500.000000000001	15000	60	34-141	:
Molybdenum	7.430	400	372.0	91	45-120	u
Nickel	8490	500.000000000001	8810	64	36-138	: u
Selenium	ND	1000	919.0	92	42-120	u
Silver	ND	200.000000000001	190.0	95	66-120	u
Thallium	ND	1000	865.0	87	48-120	u
Vanadium	1060	500.000000000001	1490	86	45-136	u
Zinc	1300	500.000000000001	1720	84	34-139	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

Method: 6010B Standard: blank
Run Time: 08/06/04 08:24:54

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.005	.004	-.000	.001	-.287	.006	.000
SDev	.001	.002	.000	.001	.005	.000	.000
%RSD	13.6	37.7	141.	50.6	1.63	3.53	71.6
#1	-.005	.005	.000	.001	-.284	.006	.000
#2	-.006	.003	-.000	.001	-.290	.006	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.008	.003	-.001	.002	.003	-.007
SDev	.000	.000	.002	.002	.001	.001	.000
%RSD	5.98	4.02	48.9	269.	57.9	30.4	3.15
#1	-.001	.007	.004	.001	.003	.004	-.007
#2	-.001	.008	.002	-.002	.001	.003	-.007

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.006	-.001	-.005	.001	.029	.0571	-.0027
SDev	.001	.002	.001	.001	.001	.0007	.0000
%RSD	19.8	267.	17.6	63.7	2.10	1.270	1.772
#1	.007	.001	-.006	.001	.028	.0566	-.0027
#2	.005	-.002	-.004	.000	.029	.0576	-.0027

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0016	.0000	.001	.170
SDev	.0000	.0001	.000	.003
%RSD	.6682	286.6	14.5	1.53
#1	-.0016	.0001	.001	.168
#2	-.0016	-.0000	.002	.171

Method: 6010B Standard: cst hi
Run Time: 08/06/04 08:28:38

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.44	.809	.308	16.3	2.81	1.14	.239
SDev	.02	.004	.002	.1	.03	.01	.002
%RSD	1.69	.469	.618	.345	.984	.603	.853
#1	1.42	.807	.306	16.2	2.79	1.13	.238
#2	1.45	.812	.309	16.3	2.83	1.14	.241

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.773	.534	.927	.909	2.37	1.96	.355
SDev	.006	.003	.003	.012	.06	.02	.001
%RSD	.777	.536	.323	1.32	2.43	.813	.402
#1	.769	.532	.924	.901	2.33	1.95	.354
#2	.777	.536	.929	.918	2.41	1.97	.356

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.387	.298	.216	.886	.211	.1690	.3013
SDev	.004	.000	.003	.006	.002	.0010	.0026
%RSD	1.03	.133	1.27	.658	.732	.6201	.8502
#1	.384	.297	.214	.882	.210	.1683	.2995
#2	.390	.298	.218	.891	.213	.1698	.3032

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1202	.1727	1.13	7.01
SDev	.0008	.0014	.01	.05
%RSD	.7047	.8343	.826	.680
#1	.1196	.1716	1.12	6.97
#2	.1208	.1737	1.14	7.04

Standardization Report 08/06/04 08:32:43 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	689.275	3.58971	08/06/04 08:28:38
Sb206A	206.832	Multiple	Standards	1217.42	-4.84701	08/06/04 08:28:38
As1890	189.042	Multiple	Standards	1625.77	.139605	08/06/04 08:28:38
Ba4934	493.409	Multiple	Standards	61.4225	-.067768	08/06/04 08:28:38
Be3130	313.042	Multiple	Standards	31.1654	8.95059	08/06/04 08:28:38
Cd2265	226.502	Multiple	Standards	88.1796	-.517142	08/06/04 08:28:38
Cr2677	267.716	Multiple	Standards	837.168	-.071581	08/06/04 08:28:38
Co2286	228.616	Multiple	Standards	647.277	.812477	08/06/04 08:28:38
Cu3247	324.754	Multiple	Standards	379.913	-2.86939	08/06/04 08:28:38
Pb2203	220.351	Multiple	Standards	542.069	-1.72537	08/06/04 08:28:38
Pb220A	220.352	Multiple	Standards	544.799	.383098	08/06/04 08:28:38
Mo2020	202.030	Multiple	Standards	422.463	-.967633	08/06/04 08:28:38
Ni2316	231.604	Multiple	Standards	255.534	-.838689	08/06/04 08:28:38
Se1960	196.021	Multiple	Standards	1382.79	9.53333	08/06/04 08:28:38
Se196A	196.022	Multiple	Standards	1310.45	-7.78583	08/06/04 08:28:38
Ag3280	328.068	Multiple	Standards	335.536	.246812	08/06/04 08:28:38
Tl1908	190.864	Multiple	Standards	2278.38	11.5041	08/06/04 08:28:38
V_2924	292.402	Multiple	Standards	564.595	-.418940	08/06/04 08:28:38
Zn2138	213.856	Multiple	Standards	565.606	-16.3432	08/06/04 08:28:38
Al3082	308.215	Multiple	Standards	9099.59	-519.447	08/06/04 08:28:38
Ca3179	317.933	Multiple	Standards	6577.29	17.8497	08/06/04 08:28:38
Fe2714	271.441	Multiple	Standards	8592.43	13.7147	08/06/04 08:28:38
Mg2790	279.079	Multiple	Standards	11578.6	-.242200	08/06/04 08:28:38
Mn2576	257.610	Multiple	Standards	88.6385	-.120840	08/06/04 08:28:38
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/06/04 08:28:38
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/06/04 08:28:38
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/06/04 08:28:38
Ti3349	334.941	Multiple	Standards	146.234	-24.7992	08/06/04 08:28:38

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873001
Run Name :
Filename : tr244387
Injected : 06-AUG-2004 08:33
Caltype :

Standards: 04WS1252

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1002.000	ug/L	0	5	
Antimony	1000.000	1000.000	ug/L	0	5	
Arsenic	500.0000	509.0000	ug/L	2	5	
Barium	1000.000	996.0000	ug/L	0	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2031.000	ug/L	2	5	
Chromium	200.0000	202.0000	ug/L	1	5	
Cobalt	500.0000	506.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1016.000	ug/L	2	5	
Lead	500.0000	502.0000	ug/L	0	5	
Magnesium	2000.000	2026.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	506.0000	ug/L	1	5	
Selenium	500.0000	504.0000	ug/L	1	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	503.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873002

Run Name :
Filename : tr244388

Injected : 06-AUG-2004 08:38
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	485.8000	ug/L	-3	10	
Antimony	500.0000	511.0000	ug/L	2	10	
Arsenic	250.0000	253.0000	ug/L	1	10	
Barium	500.0000	487.0000	ug/L	-3	10	
Beryllium	50.00000	50.20000	ug/L	0	10	
Cadmium	50.00000	50.90000	ug/L	2	10	
Calcium	1000.000	1018.000	ug/L	2	10	
Chromium	100.0000	101.0000	ug/L	1	10	
Cobalt	250.0000	247.0000	ug/L	-1	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	489.4000	ug/L	-2	10	
Lead	250.0000	251.0000	ug/L	0	10	
Magnesium	1000.000	1014.000	ug/L	1	10	
Manganese	50.00000	49.10000	ug/L	-2	10	
Molybdenum	500.0000	513.0000	ug/L	3	10	
Nickel	250.0000	252.0000	ug/L	1	10	
Selenium	250.0000	249.0000	ug/L	0	10	
Silver	50.00000	50.30000	ug/L	1	10	
Thallium	250.0000	240.0000	ug/L	-4	10	
Titanium	500.0000	505.0000	ug/L	1	10	
Vanadium	250.0000	248.0000	ug/L	-1	10	
Zinc	50.00000	50.70000	ug/L	1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74315873004 Filename : tr244390 Injected : 06-AUG-2004 08:47
Caltype :

Standards: 04WS1044

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	98.52000	ug/L	-1	50	
Antimony	60.00000	61.60000	ug/L	3	50	
Arsenic	5.000000	6.630000	ug/L	33	50	
Barium	10.00000	9.810000	ug/L	-2	50	
Beryllium	2.000000	1.620000	ug/L	-19	50	
Cadmium	5.000000	5.110000	ug/L	2	50	
Calcium	200.0000	221.1000	ug/L	11	50	
Chromium	10.00000	10.50000	ug/L	5	50	
Cobalt	20.00000	20.00000	ug/L	0	50	
Copper	10.00000	10.70000	ug/L	7	50	
Iron	100.0000	136.8000	ug/L	37	50	
Lead	3.000000	2.740000	ug/L	-9	50	
Magnesium	200.0000	209.6000	ug/L	5	50	
Manganese	10.00000	10.10000	ug/L	1	50	
Molybdenum	20.00000	20.70000	ug/L	4	50	
Nickel	20.00000	20.10000	ug/L	1	50	
Selenium	5.000000	6.570000	ug/L	31	50	
Silver	5.000000	5.230000	ug/L	5	50	
Thallium	5.000000	6.180000	ug/L	24	50	
Vanadium	10.00000	10.20000	ug/L	2	50	
Zinc	20.00000	21.10000	ug/L	6	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873014

Run Name :
Filename : tr244400

IDF : 1.0
Injected : 06-AUG-2004 10:09
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	430.5000	ug/L	**-14**	10	c- **
Antimony		500.0000	515.0000	ug/L	3	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	496.0000	ug/L	-1	10	
Beryllium		50.00000	50.00000	ug/L	0	10	
Cadmium		50.00000	51.10000	ug/L	2	10	
Calcium		1000.000	1018.000	ug/L	2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	498.8000	ug/L	0	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1009.000	ug/L	1	10	
Manganese		50.00000	49.10000	ug/L	-2	10	
Molybdenum		500.0000	511.0000	ug/L	2	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	51.40000	ug/L	3	10	

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873027

Run Name :
Filename : tr244413

IDF : 1.0
Injected : 06-AUG-2004 11:50
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	775.7000	ug/L	3	10	
Antimony		750.0000	763.0000	ug/L	2	10	
Arsenic		375.0000	373.0000	ug/L	-1	10	
Barium		750.0000	732.0000	ug/L	-2	10	
Beryllium		75.00000	75.60000	ug/L	1	10	
Cadmium		75.00000	74.50000	ug/L	-1	10	
Calcium		1500.000	1522.000	ug/L	1	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	765.1000	ug/L	2	10	
Lead		375.0000	376.0000	ug/L	0	10	
Magnesium		1500.000	1578.000	ug/L	5	10	
Manganese		75.00000	73.80000	ug/L	-2	10	
Molybdenum		750.0000	759.0000	ug/L	1	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	75.60000	ug/L	1	10	
Thallium		375.0000	359.0000	ug/L	-4	10	
Titanium		750.0000	763.0000	ug/L	2	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	76.30000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873039

Run Name :
Filename : tr244425

IDF : 1.0
Injected : 06-AUG-2004 12:46
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	524.7000	ug/L	5	10	
Antimony		500.0000	501.0000	ug/L	0	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	483.0000	ug/L	-3	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	50.10000	ug/L	0	10	
Calcium		1000.000	1009.000	ug/L	1	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	98.40000	ug/L	-2	10	
Iron		500.0000	504.9000	ug/L	1	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	999.8000	ug/L	0	10	
Manganese		50.00000	47.60000	ug/L	-5	10	
Molybdenum		500.0000	499.0000	ug/L	0	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	242.0000	ug/L	-3	10	
Zinc		50.00000	51.50000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873051

Run Name :
Filename : tr244437

IDF : 1.0
Injected : 06-AUG-2004 13:50
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	846.4000	ug/L	13	10	c+ **
Antimony		750.0000	761.0000	ug/L	1	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	74.00000	ug/L	-1	10	
Cadmium		75.00000	78.30000	ug/L	4	10	
Calcium		1500.000	1467.000	ug/L	-2	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	794.4000	ug/L	6	10	
Lead		375.0000	373.0000	ug/L	-1	10	
Magnesium		1500.000	1573.000	ug/L	5	10	
Manganese		75.00000	70.10000	ug/L	-7	10	
Molybdenum		750.0000	752.0000	ug/L	0	10	
Nickel		375.0000	385.0000	ug/L	3	10	
Selenium		375.0000	375.0000	ug/L	0	10	
Silver		75.00000	72.60000	ug/L	-3	10	
Thallium		375.0000	375.0000	ug/L	0	10	
Titanium		750.0000	761.0000	ug/L	1	10	
Vanadium		375.0000	362.0000	ug/L	-3	10	
Zinc		75.00000	79.20000	ug/L	6	10	

+=high bias c=CCV

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873003 Run Name:
Filename: tr244389 Run Type: ICB

Injected: 06-AUG-2004 08:42

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.9800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.9500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873015 Run Name: Injected: 06-AUG-2004 10:24
Filename: tr244401 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[26.050]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[11.790]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.9200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873028 Run Name: Injected: 06-AUG-2004 11:54
Filename: tr244414 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[25.760]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[24.810]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[33.190]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.4900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.3700]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873040 Run Name:
Filename: tr244426 Run Type: CCB

Injected: 06-AUG-2004 12:51

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.4800]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[37.300]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.6900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.8300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873052 Run Name:
Filename: tr244438 Run Type: CCB

Injected: 06-AUG-2004 13:59

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[95.810]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[1.2600]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[41.430]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[20.710]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[105.70]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.4600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74315873005 Run Name:
Filename: tr244391 Run Type: ICSA

Injected: 06-AUG-2004 08:58

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[6.7900]	60.00000	ug/L	<RL
Arsenic	[4.2400]	5.000000	ug/L	<RL
Barium	[0.1090]	10.00000	ug/L	<RL
Beryllium	[-1.450]	2.000000	ug/L	<RL
Cadmium	[0.8600]	5.000000	ug/L	<RL
Chromium	[3.5700]	10.00000	ug/L	<RL
Cobalt	[1.0700]	10.00000	ug/L	<RL
Copper	[-2.640]	10.00000	ug/L	<RL
Lead	[-0.569]	3.000000	ug/L	<RL
Manganese	[2.1000]	10.00000	ug/L	<RL
Molybdenum	[-0.592]	20.00000	ug/L	<RL
Nickel	[1.9400]	20.00000	ug/L	<RL
Selenium	[-3.300]	5.000000	ug/L	<RL
Silver	[0.1170]	5.000000	ug/L	<RL
Thallium	[-2.210]	5.000000	ug/L	<RL
Titanium	25.20000	10.00000	ug/L	<RL a+ ***
Vanadium	[-3.360]	10.00000	ug/L	<RL
Zinc	[1.1200]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	519800	ug/L	104
Calcium	500000	466600.	ug/L	93
Iron	200000	182700	ug/L	91
Magnesium	500000	533800	ug/L	107

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74315873006

Run Name :
Filename : tr244392

Injected : 06-AUG-2004 09:07
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D Flags
Aluminum	500000.0	504400.0	ug/L	1	
Antimony	500.0000	501.0000	ug/L	0	20
Arsenic	500.0000	497.0000	ug/L	-1	20
Barium	500.0000	441.0000	ug/L	-12	20
Beryllium	500.0000	483.0000	ug/L	-3	20
Cadmium	1000.000	886.0000	ug/L	-11	20
Calcium	500000.0	458300.0	ug/L	-8	
Chromium	500.0000	453.0000	ug/L	-9	20
Cobalt	500.0000	462.0000	ug/L	-8	20
Copper	500.0000	488.0000	ug/L	-2	20
Iron	200000.0	178500.0	ug/L	-11	
Lead	1000.000	923.0000	ug/L	-8	20
Magnesium	500000.0	522600.0	ug/L	5	
Manganese	500.0000	453.0000	ug/L	-9	20
Molybdenum	500.0000	477.0000	ug/L	-5	20
Nickel	1000.000	869.0000	ug/L	-13	20
Selenium	500.0000	496.0000	ug/L	-1	20
Silver	1000.000	828.0000	ug/L	-17	20
Thallium	500.0000	464.0000	ug/L	-7	20
Titanium	20000.00	20100.00	ug/L	1	
Vanadium	500.0000	458.0000	ug/L	-8	20
Zinc	1000.000	951.0000	ug/L	-5	20

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74315873050 Filename : tr244436 Injected : 06-AUG-2004 13:44
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	502200.0	ug/L	0		
Antimony	500.0000	549.0000	ug/L	10	20	
Arsenic	500.0000	541.0000	ug/L	8	20	
Barium	500.0000	504.0000	ug/L	1	20	
Beryllium	500.0000	479.0000	ug/L	-4	20	
Cadmium	1000.000	967.0000	ug/L	-3	20	
Calcium	500000.0	430100.0	ug/L	-14		
Chromium	500.0000	474.0000	ug/L	-5	20	
Cobalt	500.0000	471.0000	ug/L	-6	20	
Copper	500.0000	504.0000	ug/L	1	20	
Iron	200000.0	180400.0	ug/L	-10		
Lead	1000.000	958.0000	ug/L	-4	20	
Magnesium	500000.0	534500.0	ug/L	7		
Manganese	500.0000	449.0000	ug/L	-10	20	
Molybdenum	500.0000	496.0000	ug/L	-1	20	
Nickel	1000.000	932.0000	ug/L	-7	20	
Selenium	500.0000	526.0000	ug/L	5	20	
Silver	1000.000	862.0000	ug/L	-14	20	
Thallium	500.0000	504.0000	ug/L	1	20	
Titanium	20000.00	21400.00	ug/L	7		
Vanadium	500.0000	471.0000	ug/L	-6	20	
Zinc	1000.000	1030.000	ug/L	3	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74315873 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	tr244387	CS				06-AUG-2004 08:33	1.0	1.0				1	
002	tr244388	ICV				06-AUG-2004 08:38	1.0	1.0				2	
003	tr244389	ICB				06-AUG-2004 08:42	1.0	1.0					
004	tr244390	CRI				06-AUG-2004 08:47	1.0	1.0				3	
005	tr244391	ICSA				06-AUG-2004 08:58	1.0	1.0	1			4	4:MG=533800
006	tr244392	ICSAB				06-AUG-2004 09:07	1.0	1.0				5	5:MG=522600
007	tr244393	BLANK	QC260325	93528	Wipe	06-AUG-2004 09:29	1.0	50.0	2				
008	tr244394	BS	QC260326	93528	Wipe	06-AUG-2004 09:33	1.0	50.0	2				
009	tr244395	BSD	QC260327	93528	Wipe	06-AUG-2004 09:38	1.0	50.0	2	1			
010	tr244396	SAMPLE	173780-001	93528	Wipe	06-AUG-2004 09:44	1.0	50.0					
011	tr244397	SAMPLE	173780-002	93528	Wipe	06-AUG-2004 09:48	1.0	50.0					
012	tr244398	SAMPLE	173844-001	93528	Wipe	06-AUG-2004 09:52	1.0	50.0					
013	tr244399	SAMPLE	173844-002	93528	Wipe	06-AUG-2004 09:56	1.0	50.0					
014	tr244400	CCV				06-AUG-2004 10:09	1.0	1.0	1			6	
015	tr244401	CCB				06-AUG-2004 10:24	1.0	1.0					
016	tr244402	SAMPLE	173844-003	93528	Wipe	06-AUG-2004 10:30	1.0	50.0					
017	tr244403	BLANK	QC260328	93529	Soil	06-AUG-2004 10:35	1.0	50.0	2				
018	tr244404	BS	QC260329	93529	Soil	06-AUG-2004 10:39	1.0	50.0	2				
019	tr244405	BSD	QC260330	93529	Soil	06-AUG-2004 10:43	1.0	50.0	2				
020	tr244406	MSS	173840-001	93529	Soil	06-AUG-2004 10:49	1.0	51.55	5				5:MG=1267000
021	tr244407	SER	QC260333	93529	Soil	06-AUG-2004 10:56	5.0	51.55		1			2:MG=240900
022	tr244408	X	QC260334	93529	Soil	06-AUG-2004 11:08	1.0	51.55				7 8	5:MG=1271000
023	tr244409	PDS	QC260334	93529	Soil	06-AUG-2004 11:28	1.0	51.55				7 8	5:MG=1277000
024	tr244410	MS	QC260331	93529	Soil	06-AUG-2004 11:33	1.0	49.50		1			5:MG=1551000
025	tr244411	MSD	QC260332	93529	Soil	06-AUG-2004 11:38	1.0	42.74		3			5:MG=1574000
026	tr244412	SAMPLE	173848-001	93529	Miscel	06-AUG-2004 11:44	1.0	40.65					
027	tr244413	CCV				06-AUG-2004 11:50	1.0	1.0				9	
028	tr244414	CCB				06-AUG-2004 11:54	1.0	1.0					
029	tr244415	SAMPLE	173848-002	93529	Miscel	06-AUG-2004 12:01	1.0	39.37	1				1:V=20800.0
030	tr244416	SAMPLE	173854-001	93529	Soil	06-AUG-2004 12:05	1.0	47.17					2:FE=347300
031	tr244417	SAMPLE	173854-002	93529	Soil	06-AUG-2004 12:09	1.0	45.45					3:FE=476000

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04SS171 8=04SS172 9=04WS1319

Analyst: K Carlyn Date: 8/6/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74315873 Instrument: MET07 TJA Trace ICP Begun: 06-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr244418	SAMPLE	173854-003	93529	Soil	06-AUG-2004 12:13	1.0	50.0			3:CA=301200
033	tr244419	SAMPLE	173854-004	93529	Soil	06-AUG-2004 12:18	1.0	38.17			4:CA=486700
034	tr244420	SAMPLE	173857-001	93529	Soil	06-AUG-2004 12:22	1.0	32.89			1:FE=204100
035	tr244421	SAMPLE	173857-002	93529	Soil	06-AUG-2004 12:26	1.0	40.0			2:FE=229700
036	tr244422	SAMPLE	173859-001	93529	Soil	06-AUG-2004 12:30	1.0	45.87			2:FE=259300
037	tr244423	SAMPLE	173848-002	93529	Miscel	06-AUG-2004 12:35	2.0	39.37			
038	tr244424	SAMPLE	173863-001	93529	Miscel	06-AUG-2004 12:41	1.0	53.76	1		4:CA=777000
039	tr244425	CCV				06-AUG-2004 12:46	1.0	1.0		6	
040	tr244426	CCB				06-AUG-2004 12:51	1.0	1.0			
041	tr244427	SAMPLE	173863-001	93529	Miscel	06-AUG-2004 12:55	2.0	53.76			1:CA=421600
042	tr244428	SAMPLE	173865-001	93529	Miscel	06-AUG-2004 12:59	1.0	62.50			2:FE=1096000
043	tr244429	SAMPLE	173865-002	93529	Miscel	06-AUG-2004 13:04	1.0	106.4			2:FE=716400
044	tr244430	SAMPLE	173865-003	93529	Miscel	06-AUG-2004 13:08	1.0	416.7			2:FE=192500
045	tr244431	SAMPLE	173865-004	93529	Miscel	06-AUG-2004 13:12	1.0	227.3			2:FE=154500
046	tr244432	SAMPLE	173865-005	93529	Miscel	06-AUG-2004 13:17	1.0	57.47			2:FE=853600
047	tr244433	SAMPLE	173865-006	93529	Miscel	06-AUG-2004 13:21	1.0	43.86			2:FE=1291000
048	tr244434	SAMPLE	173865-007	93529	Miscel	06-AUG-2004 13:25	1.0	75.76			5:FE=536500
049	tr244435	SAMPLE	173865-008	93529	Miscel	06-AUG-2004 13:29	1.0	46.30			5:FE=1218000
050	tr244436	ICSAB				06-AUG-2004 13:44	1.0	1.0		5	5:MG=534500
051	tr244437	CCV				06-AUG-2004 13:50	1.0	1.0	1	9	
052	tr244438	CCB				06-AUG-2004 13:59	1.0	1.0			

Stds used: 1=04WS1252 2=04WS1316 3=04WS1044 4=04WS1124 5=04WS1256 6=04WS1317 7=04SS171 8=04SS172 9=04WS1319

Analyst: K Carlyn Date: 8/6/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 173859 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN
173859-001	MET07	08/06/04 12:30	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260328	MET07	08/06/04 10:35	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260329	MET07	08/06/04 10:39	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260330	MET07	08/06/04 10:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260331	MET07	08/06/04 11:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260332	MET07	08/06/04 11:38	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260333	MET07	08/06/04 10:56	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC260334	MET07	08/06/04 11:28	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 05-AUG-2004 23:37

Batch Number : 93529
Date Extracted: 05-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173840-001			Tan Phung Associates	Soil	.97	g	50	51.546392	1					T26/ICP		mss
173848-001			ConocoPhillips Company	Miscell.	1.23	g	50	40.650407	1					V		
173848-002			ConocoPhillips Company	Miscell.	1.27	g	50	39.370079	1					V		
173854-001			CH2M Hill Constructors Inc.	Soil	1.06	g	50	47.169811	1					PB		
173854-002			CH2M Hill Constructors Inc.	Soil	1.1	g	50	45.454545	1					PB		
173854-003			CH2M Hill Constructors Inc.	Soil	1	g	50	50.000000	1					PB		
173854-004			CH2M Hill Constructors Inc.	Soil	1.31	g	50	38.167939	1					PB		
173857-001			Treadwell & Rollo	Soil	1.52	g	50	32.894737	1					T26/ICP		
173857-002			Treadwell & Rollo	Soil	1.25	g	50	40.000000	1					T26/ICP		
173859-001			Treadwell & Rollo	Soil	1.09	g	50	45.871560	1					T26/ICP		
173863-001			Burns & McDonnell	Miscell.	.93	g	50	53.763441	1					T26/ICP		
173865-001			URS Corporation	Miscell.	.8	g	50	62.500000	1					PB		
173865-002			URS Corporation	Miscell.	.47	g	50	106.382979	1					PB		
173865-003			URS Corporation	Miscell.	.12	g	50	416.666667	1					PB		
173865-004			URS Corporation	Miscell.	.22	g	50	227.272727	1					PB		
173865-005			URS Corporation	Miscell.	.87	g	50	57.471264	1					PB		
173865-006			URS Corporation	Miscell.	1.14	g	50	43.859649	1					PB		
173865-007			URS Corporation	Miscell.	.66	g	50	75.757576	1					PB		
173865-008			URS Corporation	Miscell.	1.08	g	50	46.296296	1					PB		
QC260328	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC260329	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260330	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260331	MS	of 173840-001		Soil	1.01	g	50	49.504950	1		.5	.5		ICAP		
QC260332	MSD	of 173840-001		Soil	1.17	g	50	42.735043	1		.5	.5		ICAP		
QC260333	SER	of 173840-001		Soil	.97	g	50	51.546392	1					ICAP		
QC260334	PDS	of 173840-001		Soil	.97	g	50	51.546392	1					ICAP		

Prep Chemist: _____ Reviewed By: K Carlyn Date: 8/6/04

Relinquished By: _____ Received By: K Carlyn Date: 8/6/04

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 93529
Date Digested: 8/4/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 29

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLK QC 260328		Ø	50.0	Y	
*	BS 260329					
*	BSD 260330					
*	173840-001 MS	A	1.01			
*	-001 MSD		1.17			
	173840-001	A	0.97			MSS
	173848-001		1.23			comp A&C
	-002		1.27			
	173854-001	A	1.06			
10	-002		1.10			
	-003		1.00			
	-004		1.31			
	173857-001	A	1.52			
	-002		1.25			
15	173859-001	A	1.09			
	173863-001	A	0.93			
	173865-001	A	0.80			
	-002		0.47			
	-003		0.12			
20	-004		0.22			
	-005		0.87			
	-006		1.14			
	-007		0.66			
	-008		1.08			

0.5 mL of spike solution was added to all spikes

digestion temperature (90 - 95 degrees C)
1:1 HNO3
concentrated HNO3
3mL 30% hydrogen peroxide
concentrated HCl
☒ filtered thru' Whatman # 541

Reagent ID or LIMS #	Initials / Date
OHSS171 *	VV 8/5/04
OHSS172 *	
95C	
A16051-080504	
A16051-JTBaker	
43287349-VWR	
A16039-JTBaker	
E156605F	

M Vergara 8/5/04
Extraction Chemist / Date

Continued from page —
Continued on page —

K Carlson 8/6/04
Reviewed by / Date

TAL/ ICP Metals	Trace ICP MET-07	Vertical ICP MET-01	ICP-MS* MET-05
Soil MDLs (mg/Kg)	7/20/04	7/20/04	5/26/04
Antimony	0.20	1.3	0.82
Arsenic	0.10	2.8	0.082
Barium	0.013	0.098	0.20
Beryllium	0.0063	0.029	0.052
Cadmium	0.028	0.14	0.011
Chromium	0.033	0.29	0.052
Cobalt	0.076	0.39	0.0035
Copper	0.057	0.11	0.097
Lead	0.065	7.9	0.0082
Molybdenum	0.062	0.43	0.0052
Nickel	0.067	0.64	0.30
Selenium	0.17	8.1	0.097
Silver	0.098	0.18	0.0032
Thallium	0.21	9.5	0.013
Vanadium	0.045	0.14	0.15
Zinc	0.17	0.17	0.056
Aluminum	0.52	1.5	0.58
Calcium	0.58	2.8	2.8
Iron	0.80	1.5	0.93
Magnesium	0.52	1.5	0.34
Manganese	0.11	0.11	0.019
Potassium	- -	18	1.1
Sodium	- -	2.8	4.2

* MDL calculation includes the 5x dilution which is standard for ICP-MS soils.

CVAA / Flame AA

Soil MDLs (mg/Kg)	MDL	Analyzed	Instrument
Mercury (EPA 7471A)	0.004	3/30/04	MET-04
	0.005	5/15/03	MET-03
Organic Lead (CA LUFT)	0.22	4/04/03	JE 4000

Miscellaneous Metals (EPA 6010B)	Vertical ICP MET-01
Soil MDLs (mg/Kg)	5/14/03
Boron	1.7
Tin	0.89
Titanium	0.14

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93523
Date: 08/06/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173759-001	15.3226	22.5189	20.3878	70	30
173759-002	15.1929	22.4166	20.3755	72	28
173759-003	15.4301	22.6667	20.4093	69	31
173759-004	15.2509	22.2969	20.3098	72	28
173759-005	15.3021	22.2969	20.7000	77	23
173760-001	15.3721	22.6946	20.8713	75	25
173854-001	15.4726	22.3214	21.0455	81	19
173854-002	15.4475	22.6003	21.6798	87	13
173854-003	15.4903	22.5110	21.4732	85	15
173854-004	15.2262	22.3023	21.5076	89	11
173858-001	15.5287	22.4498	21.1384	81	19
173858-002	15.5189	22.3351	21.1991	83	17
173859-001	15.4335	22.5761	22.3871	97	3
QC260315	15.1785	22.6209	20.6785	74	26
of 173760-001			RPD:	1.6%	4.7%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93523
Date Started: 05-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
173759-001		Tetra Tech FW	Soil	MOISTURE	09-AUG-2004
173759-002		Tetra Tech FW	Soil	MOISTURE	09-AUG-2004
173759-003		Tetra Tech FW	Soil	MOISTURE	09-AUG-2004
173759-004		Tetra Tech FW	Soil	MOISTURE	09-AUG-2004
173759-005		Tetra Tech FW	Soil	MOISTURE	09-AUG-2004
173760-001		Tetra Tech FW	Soil	MOISTURE	09-AUG-2004
173854-001		CH2M Hill Construc	Soil	MOISTURE	06-AUG-2004
173854-002		CH2M Hill Construc	Soil	MOISTURE	06-AUG-2004
173854-003		CH2M Hill Construc	Soil	MOISTURE	06-AUG-2004
173854-004		CH2M Hill Construc	Soil	MOISTURE	06-AUG-2004
173858-001		Innovative Technic	Soil	MOISTURE	06-AUG-2004
173858-002		Innovative Technic	Soil	MOISTURE	06-AUG-2004
173859-001		Treadwell & Rollo	Soil	MOISTURE	09-AUG-2004
QC260315	SDUP of 173760-001		Soil	MOISTURE	

8/5/04

93523

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	A	15.3454	—	15.3476	
173759 - 1		3	15.3226	22.5189	20.3878	
2		146	15.1929	22.4166	20.3755	
3		99	15.4301	22.6667	20.4093	
4		DP	15.2599	22.2969	20.3098	
5		381	15.3021	22.2969	20.7000	
173760 - 1		37	15.3721	22.6946	20.8713	
DUP 1		973	15.1785	22.6209	20.6785	
173854 - 1		21	15.4726	22.3214	21.0455	
2		40	15.4475	22.6003	21.6798	
3		106	15.4903	22.5110	21.4732	
4		F	15.2262	22.3023	21.5076	
173858 - 1		M2	15.5287	22.4498	21.1384	
2		18	15.5189	22.3351	21.1991	
173859 - 1		32	15.4335	22.5761	22.3877	

OVEN TEMP: 104°C
TIME IN: 5:25 P.M.
TIME OUT: 9:37 A.M. ON: 8/6/04

Continued on Page /

Read and Understood By

R. Manning 8/5/04 K. Carlyn 8/6/04
Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 173875

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX109[0.5]	173875-001
BB3EX110[0.5]	173875-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 8/18/09
Operations Manager

Signature: _____ Date: 8/17/09
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

Laboratory Number: **173875** Order Date: **08/06/04**
Client: **Treadwell & Rollo**
Project Name: **Presidio – Baker Beach 3**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for two soil samples received from the above referenced project. The samples were received cold and intact.

Organochlorine Pesticides: Both surrogate recoveries were above acceptance limits for sample BB3EX109[0.5] (173875-001). No target compounds were detected in the associated sample, therefore, there is no affect on the quality of the sample results.

The TCMX surrogate recoveries for the method blank, laboratory control sample (LCS), and matrix spikes were outside acceptance limits. The associated decachlorobiphenyl surrogate recoveries were acceptable, therefore, there is no affect on the quality of the sample results.

The %RSD of the initial calibration of GC23 on 8/6/04 for endrin aldehyde and endosulfan sulfate from channel A, and for endrin aldehyde from channel B, were outside acceptance limits. The associated average %RSD for all compounds was acceptable on both channels, therefore, there is no affect on the quality of the sample results.

The endrin breakdown % for the performance evaluation monitoring standards (PEMs) 219_048, 222_007, 222_022, and 223_004 were above acceptance limits on channel A. Endrin and its associated breakdown products were not detected in the associated sample, therefore, there is no affect on the quality of the sample results.

The %D of the continuing calibration standards were outside acceptance limits for many individual compounds. The affected compounds have been flagged with a "b" as per the method. The associated average %D for all compounds was acceptable on both channels in all CCSs except CCS 222_009 which was above acceptance limits on channel A. No target compounds were reported from channel A, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

PCBs: The matrix spike recovery of aroclor-1260 was outside acceptance limits. The associated LCS recoveries were acceptable for all target compounds, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Metals: The matrix spike recoveries for antimony were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements and the spiked sample was not from this site.

The serial dilution sample analyzed on 8/9/04 at 07:57 was outside acceptance limits for arsenic. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

173875

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrid Reinis
Samplers: Mika Chamberlain
Recorder (Signature Required): [signature] (MAR)

Turnaround Time: 24 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	Metals	Silica gel clean-up	Hold	Remarks
-1 BB3EX109[0.5]	8/6/04	1323		X						/		X	X	X			Sample taken from a rabbit burrow
-2 BB3EX110[0.5]	8/6/04	1330		X						/		X	X	X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/6/04	1405	[signature]	8/6/04	1405
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: send Login to Colleen Haradon @ SF office

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002236

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 173875 Date Received: 8/6/04 Number of Coolers: 1
Client: TREADWELL + Rollo Project: Presidio - Baker Beach

A. Preliminary Examination Phase
Date Opened: 8/6/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: Cold

B. Login Phase
Date Logged In: 8/6/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Ziploc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX109[0.5]	Batch#:	93531
Lab ID:	173875-001	Sampled:	08/06/04
Matrix:	Soil	Received:	08/06/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.8
beta-BHC	ND	1.8
gamma-BHC	ND	1.8
delta-BHC	ND	1.8
Heptachlor	ND	1.8
Aldrin	ND	1.8
Heptachlor epoxide	ND	1.8
Endosulfan I	ND	1.8
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND b	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.8
gamma-Chlordane	ND	1.8
Methoxychlor	ND	18
Toxaphene	ND	62

Surrogate	%REC	Limits
TCMX	190 *	65-135
Decachlorobiphenyl	159 *	65-135

*= Value outside of QC limits; see narrative
b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX110[0.5]	Batch#:	93531
Lab ID:	173875-002	Sampled:	08/06/04
Matrix:	Soil	Received:	08/06/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND b	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	119	65-135
Decachlorobiphenyl	103	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260340	Batch#:	93531
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/07/04
Basis:	as received		

Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	59

Surrogate	%REC	Limits
TCMX	139 *	65-135
Decachlorobiphenyl	128	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260341	Batch#:	93531
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/09/04
Basis:	as received		

Cleanup Method: EPA 3260B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.87	17.66 b	105	65-135
Heptachlor	16.87	19.58	116	65-135
Aldrin	16.87	18.57	110	65-135
Dieldrin	16.87	18.47	109	65-135
Endrin	16.87	18.46 b	109	65-135
4,4'-DDT	16.87	18.97	112	65-135

Surrogate	%REC	Limits
TCMX	149 *	65-135
Decachlorobiphenyl	135	65-135

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP080504A	Batch#:	93531
MSS Lab ID:	173857-002	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	as received	Analyzed:	08/09/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3260B
Lab ID: QC260342

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5900	16.89	17.09 b	101	65-135
Heptachlor	<0.5300	16.89	18.43	109	65-135
Aldrin	<0.5800	16.89	17.61	104	65-135
Dieldrin	<1.500	16.89	17.08	101	65-135
Endrin	<1.600	16.89	17.08 b	101	65-135
4,4'-DDT	<1.700	16.89	18.27	108	65-135

Surrogate	%REC	Limits
TCMX	142 *	65-135
Decachlorobiphenyl	114	65-135

Type: MSD Cleanup Method: EPA 3260B
Lab ID: QC260343

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.89	16.59 b	98	65-135	3	35
Heptachlor	16.89	18.50	110	65-135	0	35
Aldrin	16.89	17.23	102	65-135	2	35
Dieldrin	16.89	16.90	100	65-135	1	35
Endrin	16.89	17.04 b	101	65-135	0	35
4,4'-DDT	16.89	17.88	106	65-135	2	35

Surrogate	%REC	Limits
TCMX	142 *	65-135
Decachlorobiphenyl	119	65-135

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804316738001 Name: Type: (normal) Date: 06-AUG-2004 23:27 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	219_010	804316738010	pest_1	06-AUG-2004 23:27	04WS0929
2	219_011	804316738011	pest_2	06-AUG-2004 23:57	04WS0928
3	219_012	804316738012	pest_3	07-AUG-2004 00:26	04WS1385
4	219_013	804316738013	pest_4	07-AUG-2004 00:55	04WS0926
5	219_014	804316738014	pest_5	07-AUG-2004 01:25	04WS1375
6	219_015	804316738015	pest_6	07-AUG-2004 01:54	04WS0924
7	219_016	804316738016	pest_7	07-AUG-2004 02:23	04WS1374

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	18599	17066	15890	16599	15788	15734	17384	AVRG	R		5.980E-5		pg	16723	6	0.995	20	
gamma-BHC	A	17020	15689	14239	14961	14044	13992	15469	AVRG	R		6.640E-5		pg	15059	7	0.995	20	
beta-BHC	A	7990.1	7142.6	6234.2	6478.9	5933.9	5596.8	5979.2	AVRG	R		1.543E-4		pg	6479.4	13	0.995	20	
delta-BHC	A	21550	16760	14405	14916	13913	14069	15343	AVRG	R		6.309E-5		pg	15851	17	0.995	20	
Heptachlor	A	15129	14001	12770	13370	12565	12550	13951	AVRG	R		7.420E-5		pg	13477	7	0.995	20	
Aldrin	A	15492	14657	13008	13367	12587	12441	13695	AVRG	R		7.349E-5		pg	13606	8	0.995	20	
Heptachlor epoxide	A	14493	13317	11949	12102	11467	11167	12120	AVRG	R		8.082E-5		pg	12374	9	0.995	20	
gamma-Chlordane	A	14200	13168	11732	12021	11386	11262	12417	AVRG	R		8.122E-5		pg	12312	9	0.995	20	
alpha-Chlordane	A	13756	12770	11322	11492	10848	10750	11736	AVRG	R		8.467E-5		pg	11811	9	0.995	20	
4,4'-DDE	A	12415	11653	10368	10934	10504	10920	10514	AVRG	R		9.055E-5		pg	11044	7	0.995	20	
Endosulfan I	A	13435	12368	10759	10927	10275	10057	10860	AVRG	R		8.897E-5		pg	11240	11	0.995	20	
Dieldrin	A	13503	12607	11104	11715	11152	11416	10813	AVRG	R		8.505E-5		pg	11758	8	0.995	20	
Endrin	A	10921	10064	8807.4	9201.0	8724.1	9027.3	9073.1	AVRG	R		1.064E-4		pg	9402.5	9	0.995	20	
4,4'-DDD	A	9858.8	9159.0	7889.3	8171.9	7945.4	8371.9	8280.5	AVRG	R		1.173E-4		pg	8525.3	8	0.995	20	
Endosulfan II	A	12312	10707	9108.4	9359.6	8953.7	9287.5	8944.0	AVRG	R		1.019E-4		pg	9810.2	13	0.995	20	
4,4'-DDT	A	9825.6	8987.6	7732.5	8359.9	7854.5	8474.6	8389.6	AVRG	R		1.174E-4		pg	8517.8	8	0.995	20	
Endrin aldehyde	A	12460	9031.8	7195.0	7004.1	6742.8	6733.4	6827.5	AVRG	R		1.250E-4		pg	7999.2	27	0.995	20	rsd ***
Methoxychlor	A	3923.8	3644.2	3027.4	3265.6	3238.3	3152.3	2725.0	AVRG	R		3.047E-4		pg	3282.4	12	0.995	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804316738001 Name: Type: (normal) Date: 06-AUG-2004 23:27 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	12231	9434.4	7648.1	7653.7	7420.6	7639.4	7888.6	AVRG	R		1.168E-4		pg	8559.3	21	0.995	20	rsd ***
Endrin ketone	A	12749	10750	8789.6	9083.8	8788.5	9157.3	8406.4	AVRG	R		1.034E-4		pg	9674.9	16	0.995	20	
TCMX	A	12481	11597	10533	10701	10328	10065	10847	AVRG	R		9.144E-5		pg	10936	8	0.995	20	
Decachlorobiphenyl	A	6799.2	6354.3	5276.0	5331.1	4977.2	5562.2	5981.1	AVRG	R		1.738E-4		pg	5754.4	11	0.995	20	
alpha-BHC	B	19269	18984	18180	19465	17115	16660	18037	AVRG	R		5.481E-5		pg	18244	6	0.995	20	
gamma-BHC	B	17944	17490	16494	17603	15293	14612	16123	AVRG	R		6.057E-5		pg	16509	8	0.995	20	
beta-BHC	B	8620.5	8301.9	7492.1	7850.8	6664.1	5994.3	6704.7	AVRG	R		1.356E-4		pg	7375.5	13	0.995	20	
delta-BHC	B	22674	18864	17205	18178	15663	14805	16211	AVRG	R		5.663E-5		pg	17657	15	0.995	20	
Heptachlor	B	13539	13347	12928	13858	11984	11340	13295	AVRG	R		7.753E-5		pg	12899	7	0.995	20	
Aldrin	B	16826	16624	15487	16210	14231	13135	14671	AVRG	R		6.531E-5		pg	15312	9	0.995	20	
Heptachlor epoxide	B	15727	15576	14451	14833	13062	11644	13044	AVRG	R		7.118E-5		pg	14048	11	0.995	20	
gamma-Chlordane	B	15809	15515	14622	15116	13368	11848	13694	AVRG	R		7.002E-5		pg	14282	10	0.995	20	
alpha-Chlordane	B	15432	15119	14084	14447	12717	11203	12870	AVRG	R		7.301E-5		pg	13696	11	0.995	20	
4,4'-DDE	B	14288	14278	13655	14312	13028	11253	11540	AVRG	R		7.580E-5		pg	13193	10	0.995	20	
Endosulfan I	B	14535	14250	13250	13576	11995	10461	12010	AVRG	R		7.771E-5		pg	12868	11	0.995	20	
Dieldrin	B	15217	15008	14070	14781	13297	11545	11601	AVRG	R		7.328E-5		pg	13646	11	0.995	20	
Endrin	B	12468	12373	11492	11616	10514	9310.4	9793.9	AVRG	R		9.024E-5		pg	11081	11	0.995	20	
4,4'-DDD	B	11176	11172	10906	11002	10065	8643.0	9282.1	AVRG	R		9.689E-5		pg	10321	10	0.995	20	
Endosulfan II	B	13918	12872	12239	12243	11056	9583.2	9936.8	AVRG	R		8.552E-5		pg	11693	13	0.995	20	
4,4'-DDT	B	9979.3	10131	9921.6	10033	9320.2	7972.6	8802.2	AVRG	R		1.058E-4		pg	9451.4	9	0.995	20	
Endrin aldehyde	B	14166	10878	9818.5	9130.3	8500.1	6905.4	7620.7	AVRG	R		1.044E-4		pg	9574.2	25	0.995	20	rsd ***
Methoxychlor	B	4431.9	4355.3	4293.2	4357.8	4090.3	3037.3	2838.7	AVRG	R		2.554E-4		pg	3914.9	17	0.995	20	
Endosulfan sulfate	B	14342	11843	10843	10665	9818.3	8289.1	9172.7	AVRG	R		9.337E-5		pg	10710	18	0.995	20	
Endrin ketone	B	13972	12436	11975	11668	10882	8749.1	8878.7	AVRG	R		8.910E-5		pg	11223	17	0.995	20	
TCMX	B	13249	12774	12049	12467	11195	10696	11134	AVRG	R		8.377E-5		pg	11938	8	0.995	20	
Decachlorobiphenyl	B	8222.4	8060.9	7530.4	6917.1	6909.5	5127.0	5787.9	AVRG	R		1.442E-4		pg	6936.5	17	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	11		20	
EPA 8081A	B	22	12		20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804316738033 Run Name: Injected: 07-AUG-2004 10:40
Filename: 219_033 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	754234.17
4,4'-DDE	A	3585.23
4,4'-DDD	A	20089.88

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	410482.2
Endrin aldehyde	A	20320.5
Endrin ketone	A	30007.61

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	848800.4
4,4'-DDE	B	3798
4,4'-DDD	B	15137.87

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	510522.87
Endrin aldehyde	B	11825.67
Endrin ketone	B	14693.86

Endrin Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804316738048 Run Name: Injected: 07-AUG-2004 17:58
Filename: 219_048 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	743591.4
4,4'-DDE	A	3636.04
4,4'-DDD	A	22988

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	379937
Endrin aldehyde	A	33353.41
Endrin ketone	A	38227.17

Endrin Breakdown %: **16 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	833576.27
4,4'-DDE	B	3794.35
4,4'-DDD	B	9729.34

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	477680.62
Endrin aldehyde	B	14226.05
Endrin ketone	B	17716.01

Endrin Breakdown %: 6
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804320349007 Run Name: Injected: 09-AUG-2004 12:24
Filename: 222_007 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	694489.04
4,4'-DDE	A	3895.21
4,4'-DDD	A	16800.05

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	348454.95
Endrin aldehyde	A	38350.84
Endrin ketone	A	39221.83

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	871433.5
4,4'-DDE	B	5067
4,4'-DDD	B	12597.22

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	462116
Endrin aldehyde	B	44547.3
Endrin ketone	B	38922.7

Endrin Breakdown %: 15
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804320349022 Run Name: Injected: 09-AUG-2004 22:25
Filename: 222_022 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	648215.5
4,4'-DDE	A	3591.12
4,4'-DDD	A	34117.53

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	348426.96
Endrin aldehyde	A	33002.69
Endrin ketone	A	42704.75

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1062435.1
4,4'-DDE	B	4496
4,4'-DDD	B	20829.73

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	594974.1
Endrin aldehyde	B	24799.55
Endrin ketone	B	29952.69

Endrin Breakdown %: 8
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804322003004 Run Name: Injected: 10-AUG-2004 14:43
Filename: 223_004 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	685420.7
4,4'-DDE	A	3481.5
4,4'-DDD	A	25697.03

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	355726.47
Endrin aldehyde	A	33408.13
Endrin ketone	A	41548.24

Endrin Breakdown %: **17 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	888771.24
4,4'-DDE	B	4967.97
4,4'-DDD	B	21661.66

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	492642.09
Endrin aldehyde	B	34448
Endrin ketone	B	36055.23

Endrin Breakdown %: 13
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804322003020 Run Name: Injected: 11-AUG-2004 00:33
Filename: 223_020 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	668272.43
4,4'-DDE	A	3535.58
4,4'-DDD	A	52465.06

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	384643.58
Endrin aldehyde	A	27449.36
Endrin ketone	A	42687.45

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	991559.94
4,4'-DDE	B	4546.29
4,4'-DDD	B	48001.41

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	591410.09
Endrin aldehyde	B	23219.76
Endrin ketone	B	33552.5

Endrin Breakdown %: 9
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804316738034 Filename : 219_034 Injected : 07-AUG-2004 11:09
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15780	20.00000	18.87246	pg	-6	15	
gamma-BHC	A	15059	13976	20.00000	18.56075	pg	-7	15	
beta-BHC	A	6479.4	5938.6	20.00000	18.33068	pg	-8	15	
delta-BHC	A	15851	13640	20.00000	17.21087	pg	-14	15	
Heptachlor	A	13477	12135	20.00000	18.00851	pg	-10	15	
Aldrin	A	13606	12442	20.00000	18.28821	pg	-9	15	
Heptachlor epoxide	A	12374	11211	20.00000	18.12131	pg	-9	15	
gamma-Chlordane	A	12312	11040	20.00000	17.93345	pg	-10	15	
alpha-Chlordane	A	11811	10448	20.00000	17.69189	pg	-12	15	
4,4'-DDE	A	11044	9881.7	40.00000	35.79061	pg	-11	15	
Endosulfan I	A	11240	9919.3	20.00000	17.65002	pg	-12	15	
Dieldrin	A	11758	10592	40.00000	36.03384	pg	-10	15	
Endrin	A	9402.5	7633.7	40.00000	32.47544	pg	-19	15	c- ***
4,4'-DDD	A	8525.3	7528.9	40.00000	35.32494	pg	-12	15	
Endosulfan II	A	9810.2	8511.1	40.00000	34.70294	pg	-13	15	
4,4'-DDT	A	8517.8	6873.8	40.00000	32.27971	pg	-19	15	c- ***
Endrin aldehyde	A	7999.2	6491.7	40.00000	32.46176	pg	-19	15	c- rsd ***
Methoxychlor	A	3282.4	2925.6	200.0000	178.2634	pg	-11	15	
Endosulfan sulfate	A	8559.3	6963.8	40.00000	32.54357	pg	-19	15	c- rsd ***
Endrin ketone	A	9674.9	8317.8	40.00000	34.38906	pg	-14	15	
TCMX	A	10936	10434	40.00000	38.16203	pg	-5	15	
Decachlorobiphenyl	A	5754.4	4385.7	40.00000	30.48541	pg	-24	15	c-
alpha-BHC	B	18244	17985	20.00000	19.71596	pg	-1	15	
gamma-BHC	B	16509	16116	20.00000	19.52394	pg	-2	15	
beta-BHC	B	7375.5	7129.1	20.00000	19.33173	pg	-3	15	
delta-BHC	B	17657	16378	20.00000	18.55082	pg	-7	15	
Heptachlor	B	12899	11554	20.00000	17.91498	pg	-10	15	
Aldrin	B	15312	15023	20.00000	19.62257	pg	-2	15	
Heptachlor epoxide	B	14048	13736	20.00000	19.55594	pg	-2	15	
gamma-Chlordane	B	14282	13891	20.00000	19.45294	pg	-3	15	
alpha-Chlordane	B	13696	13365	20.00000	19.51719	pg	-2	15	
4,4'-DDE	B	13193	12975	40.00000	39.33737	pg	-2	15	
Endosulfan I	B	12868	12659	20.00000	19.67468	pg	-2	15	
Dieldrin	B	13646	13425	40.00000	39.35420	pg	-2	15	
Endrin	B	11081	10623	40.00000	38.34686	pg	-4	15	
4,4'-DDD	B	10321	9893.4	40.00000	38.34349	pg	-4	15	
Endosulfan II	B	11693	10925	40.00000	37.37282	pg	-7	15	
4,4'-DDT	B	9451.4	8689.3	40.00000	36.77464	pg	-8	15	
Endrin aldehyde	B	9574.2	8018.6	40.00000	33.50102	pg	-16	15	c- rsd ***
Methoxychlor	B	3914.9	3751.0	200.0000	191.6276	pg	-4	15	
Endosulfan sulfate	B	10710	9284.4	40.00000	34.67400	pg	-13	15	
Endrin ketone	B	11223	10000	40.00000	35.64158	pg	-11	15	
TCMX	B	11938	11812	40.00000	39.58068	pg	-1	15	
Decachlorobiphenyl	B	6936.5	5584.5	40.00000	32.20398	pg	-19	15	c-
Average EPA 8081A	A		(count=22)				12	15	
Average EPA 8081A	B		(count=22)				6	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804316738050 Filename : 219_050 Injected : 07-AUG-2004 18:57
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15953	10.00000	9.539665	pg	-5	15	
gamma-BHC	A	15059	14240	10.00000	9.455795	pg	-5	15	
beta-BHC	A	6479.4	6309.5	10.00000	9.737748	pg	-3	15	
delta-BHC	A	15851	14146	10.00000	8.924231	pg	-11	15	
Heptachlor	A	13477	12273	10.00000	9.107108	pg	-9	15	
Aldrin	A	13606	12874	10.00000	9.461779	pg	-5	15	
Heptachlor epoxide	A	12374	11775	10.00000	9.516526	pg	-5	15	
gamma-Chlordane	A	12312	11870	10.00000	9.641101	pg	-4	15	
alpha-Chlordane	A	11811	11070	10.00000	9.372571	pg	-6	15	
4,4'-DDE	A	11044	10262	20.00000	18.58315	pg	-7	15	
Endosulfan I	A	11240	10534	10.00000	9.372254	pg	-6	15	
Dieldrin	A	11758	10965	20.00000	18.65058	pg	-7	15	
Endrin	A	9402.5	7896.8	20.00000	16.79717	pg	-16	15	c- ***
4,4'-DDD	A	8525.3	8102.2	20.00000	19.00747	pg	-5	15	
Endosulfan II	A	9810.2	9096.6	20.00000	18.54512	pg	-7	15	
4,4'-DDT	A	8517.8	7096.8	20.00000	16.66354	pg	-17	15	c- ***
Endrin aldehyde	A	7999.2	7220.9	20.00000	18.05390	pg	-10	15	rsd ***
Methoxychlor	A	3282.4	2966.6	100.0000	90.38113	pg	-10	15	
Endosulfan sulfate	A	8559.3	7595.9	20.00000	17.74885	pg	-11	15	rsd ***
Endrin ketone	A	9674.9	9078.9	20.00000	18.76782	pg	-6	15	
TCMX	A	10936	10649	20.00000	19.47505	pg	-3	15	
Decachlorobiphenyl	A	5754.4	4998.4	20.00000	17.37223	pg	-13	15	
alpha-BHC	B	18244	19511	10.00000	10.69440	pg	7	15	
gamma-BHC	B	16509	17628	10.00000	10.67816	pg	7	15	
beta-BHC	B	7375.5	8019.3	10.00000	10.87290	pg	9	15	
delta-BHC	B	17657	17760	10.00000	10.05807	pg	1	15	
Heptachlor	B	12899	12358	10.00000	9.580873	pg	-4	15	
Aldrin	B	15312	16407	10.00000	10.71504	pg	7	15	
Heptachlor epoxide	B	14048	15136	10.00000	10.77404	pg	8	15	
gamma-Chlordane	B	14282	15206	10.00000	10.64747	pg	6	15	
alpha-Chlordane	B	13696	14507	10.00000	10.59222	pg	6	15	
4,4'-DDE	B	13193	13967	20.00000	21.17230	pg	6	15	
Endosulfan I	B	12868	13740	10.00000	10.67780	pg	7	15	
Dieldrin	B	13646	14519	20.00000	21.28024	pg	6	15	
Endrin	B	11081	11512	20.00000	20.77745	pg	4	15	
4,4'-DDD	B	10321	10868	20.00000	21.05959	pg	5	15	
Endosulfan II	B	11693	12084	20.00000	20.66997	pg	3	15	
4,4'-DDT	B	9451.4	9656.1	20.00000	20.43309	pg	2	15	
Endrin aldehyde	B	9574.2	9232.9	20.00000	19.28693	pg	-4	15	rsd ***
Methoxychlor	B	3914.9	4104.9	100.0000	104.8534	pg	5	15	
Endosulfan sulfate	B	10710	10386	20.00000	19.39406	pg	-3	15	
Endrin ketone	B	11223	11499	20.00000	20.49154	pg	2	15	
TCMX	B	11938	12994	20.00000	21.77047	pg	9	15	
Decachlorobiphenyl	B	6936.5	6979.2	20.00000	20.12335	pg	1	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804320349009 Filename : 222_009 Injected : 09-AUG-2004 13:22
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	14457	20.00000	17.29059	pg	-14	15	
gamma-BHC	A	15059	12846	20.00000	17.06024	pg	-15	15	
beta-BHC	A	6479.4	5565.0	20.00000	17.17767	pg	-14	15	
delta-BHC	A	15851	12914	20.00000	16.29467	pg	-19	15	c- ***
Heptachlor	A	13477	10927	20.00000	16.21629	pg	-19	15	c- ***
Aldrin	A	13606	11512	20.00000	16.92097	pg	-15	15	
Heptachlor epoxide	A	12374	10455	20.00000	16.89953	pg	-16	15	c- ***
gamma-Chlordane	A	12312	10393	20.00000	16.88273	pg	-16	15	c- ***
alpha-Chlordane	A	11811	9873.1	20.00000	16.71915	pg	-16	15	c- ***
4,4'-DDE	A	11044	9368.6	40.00000	33.93221	pg	-15	15	
Endosulfan I	A	11240	9313.4	20.00000	16.57195	pg	-17	15	c- ***
Dieldrin	A	11758	9804.1	40.00000	33.35211	pg	-17	15	c- ***
Endrin	A	9402.5	6193.0	40.00000	26.34626	pg	-34	15	c- ***
4,4'-DDD	A	8525.3	7042.6	40.00000	33.04314	pg	-17	15	c- ***
Endosulfan II	A	9810.2	8181.8	40.00000	33.36016	pg	-17	15	c- ***
4,4'-DDT	A	8517.8	6423.1	40.00000	30.16331	pg	-25	15	c- ***
Endrin aldehyde	A	7999.2	6315.1	40.00000	31.57830	pg	-21	15	c- rsd ***
Methoxychlor	A	3282.4	2460.0	200.0000	149.8927	pg	-25	15	c- ***
Endosulfan sulfate	A	8559.3	6683.6	40.00000	31.23422	pg	-22	15	c- rsd ***
Endrin ketone	A	9674.9	8154.2	40.00000	33.71257	pg	-16	15	c- ***
TCMX	A	10936	9508.1	40.00000	34.77701	pg	-13	15	
Decachlorobiphenyl	A	5754.4	4176.3	40.00000	29.03004	pg	-27	15	c-
alpha-BHC	B	18244	18437	20.00000	20.21122	pg	1	15	
gamma-BHC	B	16509	16410	20.00000	19.88054	pg	-1	15	
beta-BHC	B	7375.5	7279.8	20.00000	19.74038	pg	-1	15	
delta-BHC	B	17657	16678	20.00000	18.89038	pg	-6	15	
Heptachlor	B	12899	11509	20.00000	17.84533	pg	-11	15	
Aldrin	B	15312	15231	20.00000	19.89370	pg	-1	15	
Heptachlor epoxide	B	14048	13643	20.00000	19.42290	pg	-3	15	
gamma-Chlordane	B	14282	13966	20.00000	19.55872	pg	-2	15	
alpha-Chlordane	B	13696	13256	20.00000	19.35754	pg	-3	15	
4,4'-DDE	B	13193	13070	40.00000	39.62699	pg	-1	15	
Endosulfan I	B	12868	12431	20.00000	19.32065	pg	-3	15	
Dieldrin	B	13646	13116	40.00000	38.44774	pg	-4	15	
Endrin	B	11081	9064.1	40.00000	32.71930	pg	-18	15	c- ***
4,4'-DDD	B	10321	9599.3	40.00000	37.20371	pg	-7	15	
Endosulfan II	B	11693	10945	40.00000	37.44086	pg	-6	15	
4,4'-DDT	B	9451.4	8362.0	40.00000	35.38921	pg	-12	15	
Endrin aldehyde	B	9574.2	8359.8	40.00000	34.92641	pg	-13	15	rsd ***
Methoxychlor	B	3914.9	3396.2	200.0000	173.4976	pg	-13	15	
Endosulfan sulfate	B	10710	9275.4	40.00000	34.64024	pg	-13	15	
Endrin ketone	B	11223	10366	40.00000	36.94546	pg	-8	15	
TCMX	B	11938	12131	40.00000	40.64755	pg	2	15	
Decachlorobiphenyl	B	6936.5	6117.5	40.00000	35.27728	pg	-12	15	
Average EPA 8081A	A		(count=22)				19	15	ac
Average EPA 8081A	B		(count=22)				6	15	

-=low bias ac=average CCV drift out c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804320349023 Filename : 222_023 Injected : 09-AUG-2004 22:54
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15610	10.00000	9.334381	pg	-7	15	
gamma-BHC	A	15059	13996	10.00000	9.293923	pg	-7	15	
beta-BHC	A	6479.4	6119.4	10.00000	9.444355	pg	-6	15	
delta-BHC	A	15851	13706	10.00000	8.647081	pg	-14	15	
Heptachlor	A	13477	12101	10.00000	8.978875	pg	-10	15	
Aldrin	A	13606	12523	10.00000	9.203371	pg	-8	15	
Heptachlor epoxide	A	12374	11430	10.00000	9.237708	pg	-8	15	
gamma-Chlordane	A	12312	11248	10.00000	9.135527	pg	-9	15	
alpha-Chlordane	A	11811	10782	10.00000	9.128721	pg	-9	15	
4,4'-DDE	A	11044	9914.5	20.00000	17.95475	pg	-10	15	
Endosulfan I	A	11240	10218	10.00000	9.090359	pg	-9	15	
Dieldrin	A	11758	10597	20.00000	18.02523	pg	-10	15	
Endrin	A	9402.5	7722.6	20.00000	16.42679	pg	**-18**	15	c- ***
4,4'-DDD	A	8525.3	7781.0	20.00000	18.25395	pg	-9	15	
Endosulfan II	A	9810.2	8722.5	20.00000	17.78245	pg	-11	15	
4,4'-DDT	A	8517.8	6909.1	20.00000	16.22280	pg	**-19**	15	c- ***
Endrin aldehyde	A	7999.2	6901.7	20.00000	17.25599	pg	-14	15	rsd ***
Methoxychlor	A	3282.4	2846.7	100.0000	86.72816	pg	-13	15	
Endosulfan sulfate	A	8559.3	7333.4	20.00000	17.13536	pg	-14	15	rsd ***
Endrin ketone	A	9674.9	8759.0	20.00000	18.10652	pg	-9	15	
TCMX	A	10936	10389	20.00000	18.99997	pg	-5	15	
Decachlorobiphenyl	A	5754.4	4848.7	20.00000	16.85186	pg	**-16**	15	c-
alpha-BHC	B	18244	21113	10.00000	11.57235	pg	**16**	15	c+ ***
gamma-BHC	B	16509	19089	10.00000	11.56328	pg	**16**	15	c+ ***
beta-BHC	B	7375.5	8633.6	10.00000	11.70580	pg	**17**	15	c+ ***
delta-BHC	B	17657	19239	10.00000	10.89580	pg	9	15	
Heptachlor	B	12899	14023	10.00000	10.87202	pg	9	15	
Aldrin	B	15312	17676	10.00000	11.54425	pg	15	15	
Heptachlor epoxide	B	14048	16250	10.00000	11.56717	pg	**16**	15	c+ ***
gamma-Chlordane	B	14282	16352	10.00000	11.44952	pg	14	15	
alpha-Chlordane	B	13696	15601	10.00000	11.39092	pg	14	15	
4,4'-DDE	B	13193	15043	20.00000	22.80340	pg	14	15	
Endosulfan I	B	12868	14737	10.00000	11.45203	pg	15	15	
Dieldrin	B	13646	15470	20.00000	22.67330	pg	13	15	
Endrin	B	11081	11900	20.00000	21.47901	pg	7	15	
4,4'-DDD	B	10321	11740	20.00000	22.75058	pg	14	15	
Endosulfan II	B	11693	12869	20.00000	22.01184	pg	10	15	
4,4'-DDT	B	9451.4	10052	20.00000	21.26996	pg	6	15	
Endrin aldehyde	B	9574.2	10135	20.00000	21.17124	pg	6	15	rsd ***
Methoxychlor	B	3914.9	4324.4	100.0000	110.4584	pg	10	15	
Endosulfan sulfate	B	10710	11049	20.00000	20.63186	pg	3	15	
Endrin ketone	B	11223	12311	20.00000	21.93814	pg	10	15	
TCMX	B	11938	13976	20.00000	23.41451	pg	**17**	15	c+
Decachlorobiphenyl	B	6936.5	7356.1	20.00000	21.20986	pg	6	15	
Average EPA 8081A	A		(count=22)				11	15	
Average EPA 8081A	B		(count=22)				12	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804322003005 Filename : 223_005 Injected : 10-AUG-2004 15:13
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	15342	20.00000	18.34874	pg	-8	15	
gamma-BHC	A	15059	13689	20.00000	18.17974	pg	-9	15	
beta-BHC	A	6479.4	5907.2	20.00000	18.23378	pg	-9	15	
delta-BHC	A	15851	13559	20.00000	17.10825	pg	-14	15	
Heptachlor	A	13477	11796	20.00000	17.50573	pg	-12	15	
Aldrin	A	13606	12137	20.00000	17.84025	pg	-11	15	
Heptachlor epoxide	A	12374	11038	20.00000	17.84092	pg	-11	15	
gamma-Chlordane	A	12312	10895	20.00000	17.69842	pg	-12	15	
alpha-Chlordane	A	11811	10368	20.00000	17.55743	pg	-12	15	
4,4'-DDE	A	11044	9946.2	40.00000	36.02427	pg	-10	15	
Endosulfan I	A	11240	9854.4	20.00000	17.53450	pg	-12	15	
Dieldrin	A	11758	10413	40.00000	35.42283	pg	-11	15	
Endrin	A	9402.5	7058.0	40.00000	30.02630	pg	-25	15	c- ***
4,4'-DDD	A	8525.3	7546.0	40.00000	35.40541	pg	-11	15	
Endosulfan II	A	9810.2	8549.4	40.00000	34.85916	pg	-13	15	
4,4'-DDT	A	8517.8	6867.2	40.00000	32.24883	pg	-19	15	c- ***
Endrin aldehyde	A	7999.2	6531.6	40.00000	32.66102	pg	-18	15	c- rsd ***
Methoxychlor	A	3282.4	2710.4	200.0000	165.1514	pg	-17	15	c- ***
Endosulfan sulfate	A	8559.3	7002.6	40.00000	32.72488	pg	-18	15	c- rsd ***
Endrin ketone	A	9674.9	8452.3	40.00000	34.94493	pg	-13	15	
TCMX	A	10936	10134	40.00000	37.06814	pg	-7	15	
Decachlorobiphenyl	A	5754.4	4386.7	40.00000	30.49260	pg	-24	15	c-
alpha-BHC	B	18244	19808	20.00000	21.71397	pg	9	15	
gamma-BHC	B	16509	17702	20.00000	21.44562	pg	7	15	
beta-BHC	B	7375.5	7863.7	20.00000	21.32387	pg	7	15	
delta-BHC	B	17657	17838	20.00000	20.20509	pg	1	15	
Heptachlor	B	12899	12894	20.00000	19.99284	pg	0	15	
Aldrin	B	15312	16357	20.00000	21.36497	pg	7	15	
Heptachlor epoxide	B	14048	14806	20.00000	21.07849	pg	5	15	
gamma-Chlordane	B	14282	15027	20.00000	21.04392	pg	5	15	
alpha-Chlordane	B	13696	14304	20.00000	20.88865	pg	4	15	
4,4'-DDE	B	13193	14169	40.00000	42.95957	pg	7	15	
Endosulfan I	B	12868	13414	20.00000	20.84868	pg	4	15	
Dieldrin	B	13646	14277	40.00000	41.85088	pg	5	15	
Endrin	B	11081	10310	40.00000	37.21516	pg	-7	15	
4,4'-DDD	B	10321	10679	40.00000	41.38945	pg	3	15	
Endosulfan II	B	11693	11914	40.00000	40.75763	pg	2	15	
4,4'-DDT	B	9451.4	9238.4	40.00000	39.09833	pg	-2	15	
Endrin aldehyde	B	9574.2	8947.6	40.00000	37.38188	pg	-7	15	rsd ***
Methoxychlor	B	3914.9	3901.9	200.0000	199.3362	pg	0	15	
Endosulfan sulfate	B	10710	10142	40.00000	37.87693	pg	-5	15	
Endrin ketone	B	11223	11423	40.00000	40.71210	pg	2	15	
TCMX	B	11938	13021	40.00000	43.63048	pg	9	15	
Decachlorobiphenyl	B	6936.5	6833.3	40.00000	39.40507	pg	-1	15	
Average EPA 8081A	A		(count=22)				14	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804322003021 Filename : 223_021 Injected : 11-AUG-2004 01:02
Calnum : 804316738001 Caldate : 06-AUG-2004 Caltype :
Standards: 04WS1385

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	16723	16232	10.00000	9.706386	pg	-3	15	
gamma-BHC	A	15059	14581	10.00000	9.682689	pg	-3	15	
beta-BHC	A	6479.4	6332.5	10.00000	9.773322	pg	-2	15	
delta-BHC	A	15851	14178	10.00000	8.944483	pg	-11	15	
Heptachlor	A	13477	12352	10.00000	9.165421	pg	-8	15	
Aldrin	A	13606	12970	10.00000	9.531973	pg	-5	15	
Heptachlor epoxide	A	12374	11853	10.00000	9.579581	pg	-4	15	
gamma-Chlordane	A	12312	11616	10.00000	9.434802	pg	-6	15	
alpha-Chlordane	A	11811	11124	10.00000	9.418293	pg	-6	15	
4,4'-DDE	A	11044	10230	20.00000	18.52602	pg	-7	15	
Endosulfan I	A	11240	10589	10.00000	9.421142	pg	-6	15	
Dieldrin	A	11758	10957	20.00000	18.63763	pg	-7	15	
Endrin	A	9402.5	7974.2	20.00000	16.96192	pg	-15	15	
4,4'-DDD	A	8525.3	8153.0	20.00000	19.12665	pg	-4	15	
Endosulfan II	A	9810.2	8947.5	20.00000	18.24115	pg	-9	15	
4,4'-DDT	A	8517.8	6636.6	20.00000	15.58284	pg	-22	15	c- ***
Endrin aldehyde	A	7999.2	7006.7	20.00000	17.51828	pg	-12	15	rsd ***
Methoxychlor	A	3282.4	2740.5	100.0000	83.49172	pg	-17	15	c- ***
Endosulfan sulfate	A	8559.3	7470.8	20.00000	17.45652	pg	-13	15	rsd ***
Endrin ketone	A	9674.9	8744.7	20.00000	18.07708	pg	-10	15	
TCMX	A	10936	10849	20.00000	19.84050	pg	-1	15	
Decachlorobiphenyl	A	5754.4	4593.7	20.00000	15.96574	pg	-20	15	c-
alpha-BHC	B	18244	21728	10.00000	11.90930	pg	19	15	c+ ***
gamma-BHC	B	16509	19523	10.00000	11.82620	pg	18	15	c+ ***
beta-BHC	B	7375.5	8729.3	10.00000	11.83555	pg	18	15	c+ ***
delta-BHC	B	17657	19232	10.00000	10.89204	pg	9	15	
Heptachlor	B	12899	13592	10.00000	10.53760	pg	5	15	
Aldrin	B	15312	17568	10.00000	11.47350	pg	15	15	
Heptachlor epoxide	B	14048	15965	10.00000	11.36444	pg	14	15	
gamma-Chlordane	B	14282	15793	10.00000	11.05863	pg	11	15	
alpha-Chlordane	B	13696	15035	10.00000	10.97781	pg	10	15	
4,4'-DDE	B	13193	14275	20.00000	21.63913	pg	8	15	
Endosulfan I	B	12868	14293	10.00000	11.10715	pg	11	15	
Dieldrin	B	13646	14922	20.00000	21.87051	pg	9	15	
Endrin	B	11081	11133	20.00000	20.09416	pg	0	15	
4,4'-DDD	B	10321	11131	20.00000	21.57079	pg	8	15	
Endosulfan II	B	11693	12126	20.00000	20.74189	pg	4	15	
4,4'-DDT	B	9451.4	8670.2	20.00000	18.34687	pg	-8	15	
Endrin aldehyde	B	9574.2	9383.6	20.00000	19.60184	pg	-2	15	rsd ***
Methoxychlor	B	3914.9	3669.0	100.0000	93.71795	pg	-6	15	
Endosulfan sulfate	B	10710	10252	20.00000	19.14374	pg	-4	15	
Endrin ketone	B	11223	11304	20.00000	20.14492	pg	1	15	
TCMX	B	11938	14516	20.00000	24.31976	pg	22	15	c+
Decachlorobiphenyl	B	6936.5	6088.2	20.00000	17.55414	pg	-12	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				10	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804316738 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 06-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
007	219_007	PEM				06-AUG-2004 22:00	1.0					1	
009	219_009	X	hex			06-AUG-2004 22:58	1.0						
010	219_010	ICAL	pest_1			06-AUG-2004 23:27	1.0	1.0				2	
011	219_011	ICAL	pest_2			06-AUG-2004 23:57	1.0	1.0				3	
012	219_012	ICAL	pest_3			07-AUG-2004 00:26	1.0	1.0				4	
013	219_013	ICAL	pest_4			07-AUG-2004 00:55	1.0	1.0				5	
014	219_014	ICAL	pest_5			07-AUG-2004 01:25	1.0	1.0				6	
015	219_015	ICAL	pest_6			07-AUG-2004 01:54	1.0	1.0				7	
016	219_016	ICAL	pest_7			07-AUG-2004 02:23	1.0	1.0				8	
017	219_017	X	hex			07-AUG-2004 02:52	1.0						
018	219_018	ICV	accpst_icv			07-AUG-2004 03:21	1.0	1.0	1		1	9	
019	219_019	X	icv			07-AUG-2004 03:51	1.0					9	
020	219_020	PEM				07-AUG-2004 04:20	1.0	1.0			1	1	
022	219_022	BLANK	QC260453	93561	Soil	07-AUG-2004 05:18	1.0	0.6618	5		1		
023	219_023	LCS	QC260454	93561	Soil	07-AUG-2004 05:48	1.0	0.6757	5	17	1	spk	
024	219_024	MS	QC260455	93561	Soil	07-AUG-2004 06:17	1.0						
025	219_025	MSD	QC260456	93561	Soil	07-AUG-2004 06:46	1.0						
026	219_026	SAMPLE	173783-004	93561	Soil	07-AUG-2004 07:15	1.0	0.6702	5		1	spk	
027	219_027	SAMPLE	173804-001	93561	Soil	07-AUG-2004 07:44	1.0	0.6826	5		1	spk	
028	219_028	SAMPLE	173804-002	93561	Soil	07-AUG-2004 08:13	1.0	0.6887	5	1	1	spk	
029	219_029	MSS	173819-001	93561	Soil	07-AUG-2004 08:43	1.0						
030	219_030	SAMPLE	173819-002	93561	Soil	07-AUG-2004 09:12	1.0	0.6698	5	2	1	spk	
031	219_031	SAMPLE	173863-001	93561	Miscel	07-AUG-2004 09:41	2.0	0.6766	5	2	1	spk	
033	219_033	PEM				07-AUG-2004 10:40	1.0	1.0			1	1	
034	219_034	CCV	pest_4			07-AUG-2004 11:09	1.0	1.0	5		1	5	
035	219_035	X	pest_4			07-AUG-2004 11:38	1.0					5	
036	219_036	X				07-AUG-2004 12:07	1.0	1.0			1	1	
038	219_038	BLANK	QC260340	93531	Soil	07-AUG-2004 13:06	1.0	0.6566	5	1	1		
039	219_039	LCS	QC260341	93531	Soil	07-AUG-2004 13:35	1.0	0.675	5	6	1	spk	
040	219_040	MS	QC260342	93531	Soil	07-AUG-2004 14:04	1.0						

Stds used: 1=04WS1389 2=04WS0929 3=04WS0928 4=04WS1385 5=04WS0926 6=04WS1375 7=04WS0924 8=04WS1374 9=04WS1240
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804316738 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 06-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
041	219_041	MSD	QC260343	93531	Soil	07-AUG-2004 14:34	1.0						
042	219_042	SAMPLE	173857-001	93531	Soil	07-AUG-2004 15:03	1.0						
043	219_043	MSS	173857-002	93531	Soil	07-AUG-2004 15:32	1.0						
044	219_044	SAMPLE	173859-001	93531	Soil	07-AUG-2004 16:01	1.0	0.6585	3		1	spk	
045	219_045	SAMPLE	173875-001	93531	Soil	07-AUG-2004 16:30	1.0						
046	219_046	SAMPLE	173875-002	93531	Soil	07-AUG-2004 17:00	1.0						
048	219_048	PEM				07-AUG-2004 17:58	1.0	1.0			1	1	
049	219_049	X	pest_3			07-AUG-2004 18:27	1.0					4	
050	219_050	CCV	pest_3			07-AUG-2004 18:57	1.0	1.0	5		1	4	
051	219_051	X	pest_5			07-AUG-2004 19:26	1.0					6	
052	219_052	X				07-AUG-2004 19:55	1.0	1.0			1	1	

28

Stds used: 1=04WS1389 2=04WS0929 3=04WS0928 4=04WS1385 5=04WS0926 6=04WS1375 7=04WS0924 8=04WS1374 9=04WS1240
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804320349 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 09-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
005	222_005	X	pest_4			09-AUG-2004 11:09	1.0					1	
006	222_006	X	pest_4			09-AUG-2004 11:39	1.0					1	
007	222_007	PEM				09-AUG-2004 12:24	1.0	1.0			1	2	
008	222_008	X	pest_4			09-AUG-2004 12:53	1.0	1.0			1	1 ac	
009	222_009	CCV	pest_4			09-AUG-2004 13:22	1.0	1.0	17		1	1 ac	
010	222_010	X	hex			09-AUG-2004 13:51	1.0						
011	222_011	LCS	QC260454	93561	Soil	09-AUG-2004 14:32	1.0	0.6757	21	1	1	<ac	
012	222_012	LCS	QC260341	93531	Soil	09-AUG-2004 15:01	1.0	0.675	21	10	1	spk<ac	
013	222_013	SAMPLE	173804-001	93561	Soil	09-AUG-2004 15:30	1.0	0.6826	15		1	<ac	
014	222_014	SAMPLE	173804-002	93561	Soil	09-AUG-2004 16:00	1.0	0.6887	15	1	1	<ac	
015	222_015	SAMPLE	173875-001	93531	Soil	09-AUG-2004 16:29	1.0	0.6662	15	3	1	<ac	
016	222_016	SAMPLE	173875-002	93531	Soil	09-AUG-2004 16:58	1.0	0.6684	15		1	<ac	
017	222_017	LCS	QC260341	93531	Soil	09-AUG-2004 19:59	1.0	0.675	21	1	1	<ac	
018	222_018	MS	QC260342	93531	Soil	09-AUG-2004 20:28	1.0	0.6754	21	1	1	<ac	
019	222_019	MSD	QC260343	93531	Soil	09-AUG-2004 20:57	1.0	0.6757	21	1	1	<ac	
020	222_020	SAMPLE	173859-001	93531	Soil	09-AUG-2004 21:26	1.0	0.6585	15		1	<ac	
021	222_021	X	hex			09-AUG-2004 21:56	1.0						
022	222_022	PEM				09-AUG-2004 22:25	1.0	1.0			1	2	
023	222_023	CCV	ccv			09-AUG-2004 22:54	1.0	1.0	9		1	3	
024	222_024	X	pest_3			09-AUG-2004 23:23	1.0				1	3 ac	
025	222_025	X	pem			09-AUG-2004 23:52	1.0	1.0			1	2	

Stds used: 1=04WS0926 2=04WS1389 3=04WS1385
Flags used: <=opening ac=average CCV drift out spk=5% spike rule

SEQUENCE SUMMARY FOR 173875 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804322003 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
004	223_004	PEM				10-AUG-2004 14:43	1.0	1.0			1	1	
005	223_005	CCV	pest_4			10-AUG-2004 15:13	1.0	1.0	6		1	2	
006	223_006	X	pest_4			10-AUG-2004 15:42	1.0	1.0			1	2 ac	
008	223_008	BLANK	QC260692	93623	Soil	10-AUG-2004 18:42	1.0	0.6601	5		1		
009	223_009	LCS	QC260693	93623	Soil	10-AUG-2004 19:11	1.0	0.6752	9	7	1		
010	223_010	MSS	173866-001	93623	Soil	10-AUG-2004 19:40	5.0	0.6702	5	1	1		
011	223_011	SAMPLE	173866-002	93623	Soil	10-AUG-2004 20:09	5.0	0.6671	5	1	1		
012	223_012	MS	QC260694	93623	Soil	10-AUG-2004 20:39	5.0	0.677	9	9	1		
013	223_013	MSD	QC260695	93623	Soil	10-AUG-2004 21:08	5.0	0.6739	9	4	1		
014	223_014	X	hex			10-AUG-2004 21:37	1.0						
015	223_015	SAMPLE	173857-001	93531	Soil	10-AUG-2004 22:06	1.0	0.6709	4	1	1		
016	223_016	MSS B	173857-002	93531	Soil	10-AUG-2004 22:36	1.0	0.6709	5		1		
017	223_017	MS	QC259858	93406	Soil	10-AUG-2004 23:05	5.0	0.6691	9	1	1		
018	223_018	MSD	QC259859	93406	Soil	10-AUG-2004 23:34	5.0	0.6752	9	1	1		
020	223_020	PEM				11-AUG-2004 00:33	1.0	1.0			1	1	
021	223_021	CCV	ccv			11-AUG-2004 01:02	1.0	1.0	8		1	3	
022	223_022	X	pest_3			11-AUG-2004 01:31	1.0					3	
023	223_023	X	pest_5			11-AUG-2004 02:00	1.0					4	
024	223_024	X	pem			11-AUG-2004 02:29	1.0	1.0			1	1	

Stds used: 1=04WS1389 2=04WS0926 3=04WS1385 4=04WS1375
Flags used: ac=average CCV drift out

Reporting Summary for 173875 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173875-001	alpha-BHC	GC23	B	08/09/04 16:29
173875-001	beta-BHC	GC23	B	08/09/04 16:29
173875-001	gamma-BHC	GC23	B	08/09/04 16:29
173875-001	delta-BHC	GC23	B	08/09/04 16:29
173875-001	Heptachlor	GC23	B	08/09/04 16:29
173875-001	Aldrin	GC23	B	08/09/04 16:29
173875-001	Heptachlor epoxide	GC23	B	08/09/04 16:29
173875-001	Endosulfan I	GC23	B	08/09/04 16:29
173875-001	Dieldrin	GC23	B	08/09/04 16:29
173875-001	4,4'-DDE	GC23	B	08/09/04 16:29
173875-001	Endrin	GC23	B	08/09/04 16:29
173875-001	Endosulfan II	GC23	B	08/09/04 16:29
173875-001	Endosulfan sulfate	GC23	B	08/09/04 16:29
173875-001	4,4'-DDD	GC23	B	08/09/04 16:29
173875-001	Endrin ketone	GC23	B	08/09/04 16:29
173875-001	4,4'-DDT	GC23	B	08/09/04 16:29
173875-001	Chlordane (Technical)	GC23	B	08/09/04 16:29
173875-001	alpha-Chlordane	GC23	B	08/09/04 16:29
173875-001	gamma-Chlordane	GC23	B	08/09/04 16:29
173875-001	Methoxychlor	GC23	B	08/09/04 16:29
173875-001	Toxaphene	GC23	B	08/09/04 16:29
173875-001	TCMX	GC23	B	08/09/04 16:29
173875-001	Decachlorobiphenyl	GC23	B	08/09/04 16:29
173875-002	alpha-BHC	GC23	B	08/09/04 16:58
173875-002	beta-BHC	GC23	B	08/09/04 16:58
173875-002	gamma-BHC	GC23	B	08/09/04 16:58
173875-002	delta-BHC	GC23	B	08/09/04 16:58
173875-002	Heptachlor	GC23	B	08/09/04 16:58
173875-002	Aldrin	GC23	B	08/09/04 16:58
173875-002	Heptachlor epoxide	GC23	B	08/09/04 16:58
173875-002	Endosulfan I	GC23	B	08/09/04 16:58
173875-002	Dieldrin	GC23	B	08/09/04 16:58
173875-002	4,4'-DDE	GC23	B	08/09/04 16:58
173875-002	Endrin	GC23	B	08/09/04 16:58
173875-002	Endosulfan II	GC23	B	08/09/04 16:58
173875-002	Endosulfan sulfate	GC23	B	08/09/04 16:58
173875-002	4,4'-DDD	GC23	B	08/09/04 16:58
173875-002	Endrin ketone	GC23	B	08/09/04 16:58
173875-002	4,4'-DDT	GC23	B	08/09/04 16:58
173875-002	Chlordane (Technical)	GC23	B	08/09/04 16:58
173875-002	alpha-Chlordane	GC23	B	08/09/04 16:58
173875-002	gamma-Chlordane	GC23	B	08/09/04 16:58
173875-002	Methoxychlor	GC23	B	08/09/04 16:58
173875-002	Toxaphene	GC23	B	08/09/04 16:58
173875-002	TCMX	GC23	B	08/09/04 16:58
173875-002	Decachlorobiphenyl	GC23	B	08/09/04 16:58
QC260340	alpha-BHC	GC23	B	08/07/04 13:06
QC260340	beta-BHC	GC23	B	08/07/04 13:06
QC260340	gamma-BHC	GC23	B	08/07/04 13:06
QC260340	delta-BHC	GC23	B	08/07/04 13:06
QC260340	Heptachlor	GC23	B	08/07/04 13:06
QC260340	Aldrin	GC23	B	08/07/04 13:06

Reporting Summary for 173875 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC260340	Heptachlor epoxide	GC23	B	08/07/04 13:06
QC260340	Endosulfan I	GC23	B	08/07/04 13:06
QC260340	Dieldrin	GC23	B	08/07/04 13:06
QC260340	4,4'-DDE	GC23	B	08/07/04 13:06
QC260340	Endrin	GC23	B	08/07/04 13:06
QC260340	Endosulfan II	GC23	B	08/07/04 13:06
QC260340	Endosulfan sulfate	GC23	B	08/07/04 13:06
QC260340	4,4'-DDD	GC23	B	08/07/04 13:06
QC260340	Endrin ketone	GC23	B	08/07/04 13:06
QC260340	4,4'-DDT	GC23	B	08/07/04 13:06
QC260340	Chlordane (Technical)	GC23	B	08/07/04 13:06
QC260340	alpha-Chlordane	GC23	B	08/07/04 13:06
QC260340	gamma-Chlordane	GC23	B	08/07/04 13:06
QC260340	Methoxychlor	GC23	B	08/07/04 13:06
QC260340	Toxaphene	GC23	B	08/07/04 13:06
QC260340	TCMX	GC23	B	08/07/04 13:06
QC260340	Decachlorobiphenyl	GC23	B	08/07/04 13:06
QC260341	gamma-BHC	GC23	B	08/09/04 19:59
QC260341	Heptachlor	GC23	B	08/09/04 19:59
QC260341	Aldrin	GC23	B	08/09/04 19:59
QC260341	Dieldrin	GC23	B	08/09/04 19:59
QC260341	Endrin	GC23	B	08/09/04 19:59
QC260341	4,4'-DDT	GC23	B	08/09/04 19:59
QC260341	TCMX	GC23	B	08/09/04 19:59
QC260341	Decachlorobiphenyl	GC23	B	08/09/04 19:59
QC260342	gamma-BHC	GC23	B	08/09/04 20:28
QC260342	Heptachlor	GC23	B	08/09/04 20:28
QC260342	Aldrin	GC23	B	08/09/04 20:28
QC260342	Dieldrin	GC23	B	08/09/04 20:28
QC260342	Endrin	GC23	B	08/09/04 20:28
QC260342	4,4'-DDT	GC23	B	08/09/04 20:28
QC260342	TCMX	GC23	B	08/09/04 20:28
QC260342	Decachlorobiphenyl	GC23	B	08/09/04 20:28
QC260343	gamma-BHC	GC23	B	08/09/04 20:57
QC260343	Heptachlor	GC23	B	08/09/04 20:57
QC260343	Aldrin	GC23	B	08/09/04 20:57
QC260343	Dieldrin	GC23	B	08/09/04 20:57
QC260343	Endrin	GC23	B	08/09/04 20:57
QC260343	4,4'-DDT	GC23	B	08/09/04 20:57
QC260343	TCMX	GC23	B	08/09/04 20:57
QC260343	Decachlorobiphenyl	GC23	B	08/09/04 20:57

Curtis & Tompkins Laboratories Sample Preparation Summary 06-AUG-2004 16:58

Batch Number : 93531
Date Extracted: 06-AUG-2004
Extracted by : Brook N. Buswell
Prep Method : 3550

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993A
Spike #2 ID : 04WS0840C
Spike #3 ID :
SOP Version : 8081s_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173857-001			Treadwell & Rollo	Soil	29.81	g	20	0.670916	1		.02	0		8081	3260B	
173857-002			Treadwell & Rollo	Soil	29.81	g	20	0.670916	1		.02	0		8081	3260B	mss
173859-001			Treadwell & Rollo	Soil	30.37	g	20	0.658545	1		.02	0		8081	3260B	
173875-001			Treadwell & Rollo	Soil	30.02	g	20	0.666223	1		.02	0		8081	3260B	
173875-002			Treadwell & Rollo	Soil	29.92	g	20	0.668449	1		.02	0		8081	3260B	
QC260340	MB			Soil	30.46	g	20	0.656599	1		.02	0		8081	3260B	
QC260341	LCS			Soil	29.63	g	20	0.674992	1		.02	1		8081	3260B	
QC260342	MS	of 173857-002		Soil	29.61	g	20	0.675447	1		.02	1		8081	3260B	
QC260343	MSD	of 173857-002		Soil	29.6	g	20	0.675676	1		.02	1		8081	3260B	

Prep Chemist: by B.B. 8/6/04 Reviewed By: [signature] Date: 8/06/04

Relinquished By: by B.B. 8/6/04 Received By: [signature] Date: 8/10/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 93531
LIMS Analysis: PEST/8081
Extracted by: BB
Date Extracted: 8/6/04

Extraction Method:
☒ EPA 3550b Sonication
☐ EPA 3545 PFE (Mth#_____)
☐ EPA 3540c Soxhlet
☐ _____

Cleanup Method:
☐ EPA 3640a GPC
☒ EPA 3620b Florisil
☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
173857-001 A	29.81	20.0	X	
-002	29.81			MSS
173859-001	30.37			
MB C260340	30.46			
LCS 41	29.63			
MS 42	29.61			
MSD 43	29.60			
173875-001	30.02	20.0	X	added after 3rd rnd pg - MSS. 2X SURR BB 8/6/04
-002	29.92			

BB 8/6/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM4A3310410	BB 8/6/04
dried with CH_2Cl_2-rinsed ☒ ~~granular~~ powdered Na_2SO_4 ☐ diatomaceous earth	EM 4321941 5	
0.02 mL of surrogate solution was added to all samples	04WS0993 A	
1.0 mL of spike solution was added to all spikes	04WS0840 C	
1:1 CH_2Cl_2 (lot# EM4416) :Acetone(lot# EM4417) was added to all	✓	
☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	NA	
Soxhlets on at:	NA	
Soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM4321941 5	
Exchanged 2x with Hexane	BJ CK898	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil	✓	

8/6/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Bryan Hutt 8/06/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: BB
Cleanup Date: 8/6/04

Benchbook # **BK 1851**
Page 80

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
173857-001	83531	1.0	1.0	
-002				
173859-001				
MB QC260340				
LCS 41				
MS 42				
MSD 43				
		BB 8/6/04		

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	204120-AQ	BB 8/6/04
Florisil cartridges/ columns rinsed 3x with Hexane	BJCK898	
Extracts were eluted with ~~10~~ 9 mL 9:1 Hexane/Acetone BB 8/6/04 — Hexane		
Acetone	EM 44148	
Concentrated to volumes as noted above		

8/6/04
Extraction Chemist / Date

Continued from page 85
Continued on page

8/6/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: SFK

Cleanup Date: 08/06/04

Benchbook # **BK 1851**

Page 82

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
173875-001	93531	1.0	1.0	
↓ -002	↓	↓	↓	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using Florisil cartridges	NA	NA
Florisil cartridges/ columns rinsed 3x with Hexane	[illegible]	SFK 8/06/04
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	↓	
Acetone	BM 4/4/99	
Concentrated to volumes as noted above	✓	✓

8/06/04

Extraction Chemist / Date

Continued from page ___
Continued on page ___

8/6/04

Reviewed by / Date

Sample ID	Weight (g)	Analyses	Comments
173853-001A	29.76	8310	MSS, in plastic bag
MB	30.09	↓	Em 33104 10
LCS	29.68	↓	↓
MS	30.12	↓	173853-001
MSD	30.16	↓	↓
173859-001A	30.37	8081	
173857-001 ↓	29.81	↓	
↓ -002 ↓	29.81	↓	MSS
MB	30.46	↓	Em 43310410
LCS	29.63	↓	↓
MS	29.61	↓	173857-002
MSD	29.60	↓	↓
173859-001 A	29.67	PCB	
173857-001 ↓	30.22	↓	MSS
↓ -002 ↓	29.78	↓	
MB	30.21	↓	Em 43310410
LCS	29.57	↓	↓
MS	29.62	↓	173857-001
MSD	29.94	↓	↓

SCK 8/5/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 8/5/04

Signed: Date:

PROJECT SOIL ALIQUOT

Notebook No. 1964

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSES	COMMENTS
173875-002A	30.72	PCB	
173875-001	29.64	PCB	MSS
MB 30.01	30.01		EM44331041O
LCS	29.51		
MS	29.75		173875-001A
MSD	29.82		
173875-001A	30.02	PEST	
-002	29.92		MSS
MB	30.41		EM44331041O
LCS	29.94		
MS	29.62		173875-002A
MSD	30.06		

BB 8/6/04

Continued on Page

Read and Understood By

8/6/04

Pesticides by EPA 8081	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
EPA 3550 Soil MDLs (ug/Kg)	5/08/03	5/08/03	4/16/04	4/16/04	4/28/04	4/28/04
Aldrin	0.56	0.60	0.93	0.94	0.70	0.74
a-BHC	0.55	0.56	0.87	0.77	0.37	0.65
b-BHC	0.74	0.60	0.68	0.90	0.42	0.65
d-BHC	0.59	0.61	1.0	0.93	0.53	1.2
g-BHC (Lindane)	0.64	0.48	0.95	0.78	0.30	0.65
4,4'-DDD	0.66	0.63	1.9	1.8	0.72	0.71
4,4'-DDE	0.54	0.50	2.0	2.0	0.86	0.72
4,4'-DDT	1.2	0.74	2.7	2.2	1.8	0.58
alpha-Chlordane	0.61	0.57	0.99	1.0	0.71	0.55
gamma-Chlordane	0.57	0.55	0.97	1.0	0.78	0.63
Dieldrin	0.57	0.51	2.0	2.0	0.67	0.75
Endosulfan I	0.50	0.55	1.0	1.0	1.4	1.2
Endosulfan II	0.67	0.62	1.9	1.7	1.5	1.4
Endosulfan sulfate	0.68	0.66	1.8	1.8	1.2	0.69
Endrin	0.65	0.54	2.2	2.0	0.74	0.68
Endrin aldehyde	0.50	0.56	1.9	1.8	0.87	0.79
Endrin ketone	0.83	0.65	1.9	1.7	1.2	0.79
Heptachlor	0.76	0.67	1.3	1.1	0.30	0.64
Heptachlor epoxide	0.60	0.62	1.1	1.1	0.73	0.80
Methoxychlor	1.1	3.1	11	10	4.2	1.6

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/17/04	4/17/04	4/09/04	4/09/04	4/30/04	4/30/04
Chlordane (technical)	15	13	4.8	3.8	6.1	6.2

	GC_14a	GC_14b	GC_16a	GC_16b	GC_21a	GC_21b
	4/19/04	4/19/04	4/10/04	4/10/04	4/30/04	4/30/04
Toxaphene	25	18	29	12	36	15

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/06/04
Units:	ug/Kg	Received:	08/06/04
Diln Fac:	1.000	Prepared:	08/10/04
Batch#:	93632	Analyzed:	08/11/04

Field ID:	BB3EX109[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	3%
Lab ID:	173875-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	25
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	68	65-135

Field ID:	BB3EX110[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	2%
Lab ID:	173875-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	78	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC260723	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	80	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260724	Batch#:	93632
Matrix:	Soil	Prepared:	08/10/04
Units:	ug/Kg	Analyzed:	08/11/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.2	211.6	128	80-129
Aroclor-1260	165.2	208.3	126	80-131

Surrogate	%REC	Limits
TCMX	102	65-135
Decachlorobiphenyl	95	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	93632
MSS Lab ID:	173735-008	Sampled:	07/27/04
Matrix:	Soil	Received:	07/29/04
Units:	ug/Kg	Prepared:	08/10/04
Basis:	dry	Analyzed:	08/11/04
Diln Fac:	1.000		

Type:	MS	Moisture:	22%
Lab ID:	QC260725	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<5.000	213.5	250.7	117	65-155
Aroclor-1260	<5.000	213.5	276.8	130 *	63-127

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	96	65-135

Type:	MSD	Moisture:	22%
Lab ID:	QC260726	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	213.1	197.3	93	65-155	24	27
Aroclor-1260	213.1	211.8	99	63-127	26	34

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	70	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204322005001 Name: Type: (normal) Date: 10-AUG-2004 21:30 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	223_012	204322005012	pcb10_2	10-AUG-2004 21:30	04WS0970
2	223_013	204322005013	pcb25_5	10-AUG-2004 22:03	04WS0960
3	223_014	204322005014	pcb100_20	10-AUG-2004 22:36	04WS0961
4	223_015	204322005015	pcb250_50	10-AUG-2004 23:09	04WS0962
5	223_016	204322005016	pcb500_100	10-AUG-2004 23:43	04WS0963
6	223_017	204322005017	pcb750_150	11-AUG-2004 00:16	04WS0964
7	223_018	204322005018	pcb1K_200	11-AUG-2004 00:49	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	241.88	260.86	262.25	252.20	254.11	261.41	254.28	AVRG	R		0.003917		pg	255.28	3	.99	20	
Aroclor-1016 Peak # 2	A	508.90	548.89	529.14	496.33	488.11	492.58	476.48	AVRG	R		0.001977		pg	505.77	5	.99	20	
Aroclor-1016 Peak # 3	A	620.68	628.54	612.26	600.41	594.02	604.30	597.67	AVRG	R		0.001644		pg	608.27	2	.99	20	
Aroclor-1016 Peak # 4	A	352.39	387.39	374.27	369.23	368.14	377.97	370.45	AVRG	R		0.002692		pg	371.41	3	.99	20	
Aroclor-1016 Peak # 5	A	313.16	322.92	318.32	314.17	311.14	314.81	314.12	AVRG	R		0.003169		pg	315.52	1	.99	20	
Aroclor-1260 Peak # 1	A	624.25	625.91	596.28	578.15	552.15	543.66	546.70	AVRG	R		0.001721		pg	581.01	6	.99	20	
Aroclor-1260 Peak # 2	A	1043.9	1095.6	1067.1	970.66	938.81	918.24	930.02	AVRG	R		0.001005		pg	994.91	7	.99	20	
Aroclor-1260 Peak # 3	A	492.39	485.97	560.63	545.96	529.87	525.55	542.27	AVRG	R		0.001901		pg	526.09	5	.99	20	
Aroclor-1260 Peak # 4	A	417.80	419.08	475.46	456.56	463.16	468.93	485.10	AVRG	R		0.002197		pg	455.15	6	.99	20	
Aroclor-1260 Peak # 5	A	1181.2	1105.7	1165.7	1142.3	1119.0	1134.6	1161.7	AVRG	R		8.739E-4		pg	1144.3	2	.99	20	
TCMX	A	10704	11759	10966	10477	10823	11184	10931	AVRG	R		9.109E-5		pg	10978	4	.99	20	
Decachlorobiphenyl	A	11347	11475	11099	9594.2	8979.6	9288.4	8937.4	AVRG	R		9.898E-5		pg	10103	11	.99	20	
Aroclor-1016 Peak # 1	B	320.01	319.57	257.07	258.80	260.57	265.74	261.63	AVRG	R		0.003602		pg	277.63	10	.99	20	
Aroclor-1016 Peak # 2	B	417.12	396.67	352.06	356.08	348.45	352.78	345.11	AVRG	R		0.002726		pg	366.90	8	.99	20	
Aroclor-1016 Peak # 3	B	1307.6	1367.3	1223.0	1196.2	1163.7	1161.5	1138.3	AVRG	R		8.180E-4		pg	1222.5	7	.99	20	
Aroclor-1016 Peak # 4	B	570.82	663.23	494.42	480.86	475.46	472.88	468.62	AVRG	R		0.001930		pg	518.04	14	.99	20	
Aroclor-1016 Peak # 5	B	368.67	346.47	326.03	321.38	345.39	328.34	333.63	AVRG	R		0.002954		pg	338.56	5	.99	20	
Aroclor-1260 Peak # 1	B	666.18	776.08	907.04	931.74	935.54	930.21	948.83	AVRG	R		0.001148		pg	870.80	12	.99	20	
Aroclor-1260 Peak # 2	B	1210.2	1285.2	1292.8	1311.5	1359.3	1339.7	1393.1	AVRG	R		7.616E-4		pg	1313.1	5	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204322005001 Name: Type: (normal) Date: 10-AUG-2004 21:30 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	933.43	862.20	758.59	876.32	908.27	920.51	963.77	AVRG	R		0.001125		pg	889.01	8	.99	20	
Aroclor-1260 Peak # 4	B	801.43	933.67	685.09	695.65	733.52	744.55	777.18	AVRG	R		0.001303		pg	767.30	11	.99	20	
Aroclor-1260 Peak # 5	B	1456.8	1742.6	1702.9	1708.2	1787.9	1820.3	1901.3	AVRG	R		5.776E-4		pg	1731.4	8	.99	20	
TCMX	B	12098	12866	12289	11971	12145	12431	12130	AVRG	R		8.146E-5		pg	12276	2	.99	20	
Decachlorobiphenyl	B	9922.3	10275	10795	9740.5	9697.0	10298	10170	AVRG	R		9.873E-5		pg	10128	4	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004			250.00	262.75	pg	5	15	
GC06	B	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004			250.00	243.28	pg	-3	15	
GC06	A	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004			500.00	532.84	pg	7	15	
GC06	B	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004			500.00	482.47	pg	-4	15	
GC06	A	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004			250.00	267.25	pg	7	15	
GC06	B	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004			250.00	247.92	pg	-1	15	
GC06	A	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004			500.00	495.63	pg	-1	15	
GC06	B	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004			500.00	468.01	pg	-6	15	

NA

[illegible] 8/17/04

CONTINUING CALIBRATION SUMMARY FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004			250.00	258.74	pg	3	15	
GC06	B	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004			250.00	243.10	pg	-3	15	
GC06	A	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004			500.00	536.78	pg	7	15	
GC06	B	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004			500.00	510.26	pg	2	15	
GC06	A	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004			250.00	255.23	pg	2	15	
GC06	B	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004			250.00	250.39	pg	0	15	
GC06	A	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004			500.00	482.10	pg	-4	15	
GC06	B	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004			500.00	520.58	pg	4	15	

NA

MCS 8/17/04

CONTINUING CALIBRATION SUMMARY FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004	8878.7	9641.9	50.000	54.298	pg	9	15	
GC06	B	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004	10362	10830	50.000	52.257	pg	5	15	
GC06	A	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004	8878.7	9331.2	100.00	105.10	pg	5	15	
GC06	B	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004	10362	10417	100.00	100.53	pg	1	15	
GC06	A	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004	10978	10601	50.000	48.285	pg	-3	15	
GC06	B	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004	12276	11910	50.000	48.509	pg	-3	15	
GC06	A	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004	10978	10727	100.00	97.718	pg	-2	15	
GC06	B	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004	12276	12025	100.00	97.956	pg	-2	15	

NA

MW 8/13/04

CONTINUING CALIBRATION SUMMARY FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004	10346	11856	50.000	57.299	pg	15	15	
GC06	B	204315074031	06-AUG-2004 11:17	204310220001	02-AUG-2004	12247	13654	50.000	55.746	pg	11	15	
GC06	A	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004	10346	8681.1	100.00	83.912	pg	-16	15	c-
GC06	B	204315074047	06-AUG-2004 23:02	204310220001	02-AUG-2004	12247	10053	100.00	82.081	pg	-18	15	c-
GC06	A	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004	10103	9030.8	50.000	44.694	pg	-11	15	
GC06	B	204322005020	11-AUG-2004 01:55	204322005001	10-AUG-2004	10128	9209.0	50.000	45.462	pg	-9	15	
GC06	A	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004	10103	9564.0	100.00	94.666	pg	-5	15	
GC06	B	204322005036	11-AUG-2004 18:08	204322005001	10-AUG-2004	10128	10659	100.00	105.24	pg	5	15	

NA

mcw 8/27/04

-=low bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	223_001	X	hex			10-AUG-2004 14:45	1.0					
002	223_002	CCV	pcb250_50			10-AUG-2004 15:19	1.0				1	
003	223_003	X	ccv			10-AUG-2004 15:52	1.0				1	
011	223_011	X	hex			10-AUG-2004 20:57	1.0					
012	223_012	ICAL	pcb10_2			10-AUG-2004 21:30	1.0	1.0			2	
013	223_013	ICAL	pcb25_5			10-AUG-2004 22:03	1.0	1.0			3	
014	223_014	ICAL	pcb100_20			10-AUG-2004 22:36	1.0	1.0			4	
015	223_015	ICAL	pcb250_50			10-AUG-2004 23:09	1.0	1.0			1	
016	223_016	ICAL	pcb500_100			10-AUG-2004 23:43	1.0	1.0			5	
017	223_017	ICAL	pcb750_150			11-AUG-2004 00:16	1.0	1.0			6	
018	223_018	ICAL	pcb1K_200			11-AUG-2004 00:49	1.0	1.0			7	
019	223_019	X	hex			11-AUG-2004 01:22	1.0					
020	223_020	CCV	accu_1660			11-AUG-2004 01:55	1.0	1.0		1	8	
021	223_021	X	icv			11-AUG-2004 02:29	1.0				8	
022	223_022	X	icv			11-AUG-2004 03:02	1.0				9	
024	223_024	BLANK	QC260723	93632	Soil	11-AUG-2004 10:51	1.0	0.8306		1		
025	223_025	LCS	QC260724	93632	Soil	11-AUG-2004 11:24	1.0	0.8259		1		
026	223_026	MS	QC260725	93632	Soil	11-AUG-2004 11:58	1.0	0.8328		1		
027	223_027	MSD	QC260726	93632	Soil	11-AUG-2004 12:32	1.0	0.8311		1		
028	223_028	MSS	173735-008	93632	Soil	11-AUG-2004 13:05	1.0	0.8273		1		
029	223_029	SAMPLE	173875-001	93632	Soil	11-AUG-2004 13:38	1.0	0.8328		1		
030	223_030	SAMPLE	173875-002	93632	Soil	11-AUG-2004 14:16	1.0	0.8273		1		
031	223_031	CHECK	04ws0993			11-AUG-2004 14:55	1.0	1.0		1	10	
032	223_032	SAMPLE	173866-001	93632	Soil	11-AUG-2004 15:29	1.0	0.821		1		
033	223_033	SAMPLE	173866-002	93632	Soil	11-AUG-2004 16:02	1.0	0.821		1		
035	223_035	X	ccv			11-AUG-2004 17:34	1.0				5	
036	223_036	CCV	pcb500_100			11-AUG-2004 18:08	1.0	1.0		1	5	
037	223_037	CCV	ar1254			11-AUG-2004 18:41	1.0	1.0		1	11	
038	223_038	X	ccv			11-AUG-2004 19:14	1.0				11	
040	223_040	SAMPLE	173748-007	93632	Soil	11-AUG-2004 20:20	1.0	0.842		1		
041	223_041	SAMPLE	173735-002	93527	Soil	11-AUG-2004 20:54	1.0	0.6793		1		

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
042	223_042	SAMPLE	173735-003	93527	Soil	11-AUG-2004 21:27	1.0	0.6892			1		
043	223_043	SAMPLE	173755-001	93527	Soil	11-AUG-2004 22:00	1.0	0.6557			1		
044	223_044	SAMPLE	173755-003	93527	Soil	11-AUG-2004 22:33	1.0	0.6878			1		
045	223_045	SAMPLE	173863-001	93632	Miscel	11-AUG-2004 23:06	1.0	0.8429			1		
046	223_046	SAMPLE	173752-003	93632	Soil	11-AUG-2004 23:40	1.0	0.8284			1		
047	223_047	SAMPLE	173752-004	93632	Soil	12-AUG-2004 00:13	1.0	0.8333			1		
048	223_048	SAMPLE	173752-005	93632	Soil	12-AUG-2004 00:46	1.0	0.8319			1		
049	223_049	SAMPLE	173752-006	93632	Soil	12-AUG-2004 01:19	1.0	0.8243		1	1		
051	223_051	CCV	pcb250_50			12-AUG-2004 02:26	1.0	1.0			1	9	
052	223_052	X	ccv			12-AUG-2004 02:59	1.0					9	
053	223_053	X	ccv			12-AUG-2004 03:32	1.0					11	
054	223_054	CCV	ar1254			12-AUG-2004 04:05	1.0	1.0			1	11	
056	223_056	SAMPLE	173752-007	93632	Soil	12-AUG-2004 05:12	1.0	0.8213			1		
057	223_057	SAMPLE	173752-008	93632	Soil	12-AUG-2004 05:45	2.0	0.8284			1		
058	223_058	SAMPLE	173752-009	93632	Soil	12-AUG-2004 06:18	1.0	0.8469			1		
059	223_059	SAMPLE	173752-010	93632	Soil	12-AUG-2004 06:52	5.0	0.8199			1		
060	223_060	SAMPLE	173752-011	93632	Soil	12-AUG-2004 07:25	1.0	0.8325			1		
061	223_061	SAMPLE	173752-012	93632	Soil	12-AUG-2004 07:58	1.0	0.8245			1		
062	223_062	SAMPLE	173752-013	93632	Soil	12-AUG-2004 08:31	1.0	0.83			1		
063	223_063	SAMPLE	173752-014	93632	Soil	12-AUG-2004 09:05	1.0	0.8426			1		
065	223_065	CCV	pcb500_100			12-AUG-2004 10:11	1.0	1.0			1	5	
066	223_066	X	ccv			12-AUG-2004 10:44	1.0					5	
067	223_067	CCV	ar1254			12-AUG-2004 11:18	1.0	1.0			1	11	
068	223_068	X	ccv			12-AUG-2004 11:51	1.0					11	
070	223_070	BLANK	QC260919	93682	Soil	12-AUG-2004 17:27	1.0	0.6743			1		
071	223_071	LCS	QC260920	93682	Soil	12-AUG-2004 18:00	1.0	0.6575			1		
072	223_072	MS	QC260921	93682	Soil	12-AUG-2004 18:34	1.0	0.6653			1		
073	223_073	MSD	QC260922	93682	Soil	12-AUG-2004 19:07	1.0	0.6734			1		
074	223_074	MSS	173927-001	93682	Soil	12-AUG-2004 19:40	1.0	0.6757			1		
075	223_075	SAMPLE	173735-004	93426	Soil	12-AUG-2004 20:13	1.0	0.8273			1		
076	223_076	SAMPLE	173735-005	93426	Soil	12-AUG-2004 20:46	1.0	0.8392			1		

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 173875 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
077	223_077	SAMPLE	173894-004	93682	Soil	12-AUG-2004 21:20	1.0	0.6653		1	1		
078	223_078	SAMPLE	173894-005	93682	Soil	12-AUG-2004 21:53	1.0	0.6649		4	1		
079	223_079	SAMPLE	173926-001	93682	Soil	12-AUG-2004 22:26	1.0	0.6748			1		
081	223_081	CCV	pcb250_50			12-AUG-2004 23:33	1.0	1.0			1	9	
082	223_082	X	ccv			13-AUG-2004 00:06	1.0					9	
083	223_083	CCV	ar1254			13-AUG-2004 00:39	1.0	1.0			1	11	
084	223_084	X	ccv			13-AUG-2004 01:12	1.0					11	
086	223_086	SAMPLE	173927-002	93682	Soil	13-AUG-2004 02:19	1.0	0.6671	1	1	1		2:PCB126=1166.88
087	223_087	SAMPLE	173868-056	93682	Soil	13-AUG-2004 02:52	1.0	0.6653			1		
088	223_088	SAMPLE	173868-057	93682	Soil	13-AUG-2004 03:25	1.0	0.6739			1		
089	223_089	SAMPLE	173868-059	93682	Soil	13-AUG-2004 03:59	1.0	0.6707			1		
090	223_090	SAMPLE	173868-061	93682	Soil	13-AUG-2004 04:32	1.0	0.6725			1		
091	223_091	SAMPLE	173868-062	93682	Soil	13-AUG-2004 05:05	1.0	0.6623			1		
092	223_092	SAMPLE	173868-063	93682	Soil	13-AUG-2004 05:38	1.0	0.6743			1		
093	223_093	SAMPLE	173868-064	93682	Soil	13-AUG-2004 06:12	1.0	0.677			1		
094	223_094	SAMPLE	173868-065	93682	Soil	13-AUG-2004 06:45	1.0	0.6766			1		
095	223_095	SAMPLE	173868-066	93682	Soil	13-AUG-2004 07:18	1.0	0.6761			1		
097	223_097	CCV	pcb500_100			13-AUG-2004 08:25	1.0	1.0			1	5	
098	223_098	X	ccv			13-AUG-2004 08:58	1.0					5	
099	223_099	CCV	ar1254			13-AUG-2004 09:31	1.0	1.0			1	11	
100	223_100	X	ccv			13-AUG-2004 10:04	1.0					11	
102	223_102	SAMPLE	173868-067	93682	Soil	13-AUG-2004 11:11	1.0	0.6734			1		
103	223_103	SAMPLE	173894-005	93682	Soil	13-AUG-2004 11:59	1.0	0.6649		4	1		
104	223_104	SAMPLE	173868-068	93682	Soil	13-AUG-2004 12:32	1.0	0.6729			1		
105	223_105	SAMPLE	173868-069	93682	Soil	13-AUG-2004 13:06	1.0	0.6775			1		
106	223_106	SAMPLE	173868-070	93682	Soil	13-AUG-2004 13:39	1.0	0.6693			1		
107	223_107	SAMPLE	173868-071	93682	Soil	13-AUG-2004 14:12	1.0	0.672			1		
108	223_108	SAMPLE	173868-072	93682	Soil	13-AUG-2004 14:45	1.0	0.6693			1		
110	223_110	CCV	pcb250_50			13-AUG-2004 15:52	1.0	1.0			1	9	
112	223_112	CCV	ar1254			13-AUG-2004 16:58	1.0	1.0			1	11	
113	223_113	X	ccv			13-AUG-2004 17:32	1.0					11	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

Reporting Summary for 173875 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
173875-001	Aroclor-1016	GC06	A	08/11/04 13:38
173875-001	Aroclor-1221	GC06	A	08/11/04 13:38
173875-001	Aroclor-1232	GC06	A	08/11/04 13:38
173875-001	Aroclor-1242	GC06	A	08/11/04 13:38
173875-001	Aroclor-1248	GC06	A	08/11/04 13:38
173875-001	Aroclor-1254	GC06	A	08/11/04 13:38
173875-001	Aroclor-1260	GC06	A	08/11/04 13:38
173875-001	TCMX	GC06	A	08/11/04 13:38
173875-001	Decachlorobiphenyl	GC06	A	08/11/04 13:38
173875-002	Aroclor-1016	GC06	A	08/11/04 14:16
173875-002	Aroclor-1221	GC06	A	08/11/04 14:16
173875-002	Aroclor-1232	GC06	A	08/11/04 14:16
173875-002	Aroclor-1242	GC06	A	08/11/04 14:16
173875-002	Aroclor-1248	GC06	A	08/11/04 14:16
173875-002	Aroclor-1254	GC06	A	08/11/04 14:16
173875-002	Aroclor-1260	GC06	A	08/11/04 14:16
173875-002	TCMX	GC06	A	08/11/04 14:16
173875-002	Decachlorobiphenyl	GC06	A	08/11/04 14:16
QC260723	Aroclor-1016	GC06	A	08/11/04 10:51
QC260723	Aroclor-1221	GC06	A	08/11/04 10:51
QC260723	Aroclor-1232	GC06	A	08/11/04 10:51
QC260723	Aroclor-1242	GC06	A	08/11/04 10:51
QC260723	Aroclor-1248	GC06	A	08/11/04 10:51
QC260723	Aroclor-1254	GC06	A	08/11/04 10:51
QC260723	Aroclor-1260	GC06	A	08/11/04 10:51
QC260723	TCMX	GC06	A	08/11/04 10:51
QC260723	Decachlorobiphenyl	GC06	A	08/11/04 10:51
QC260724	Aroclor-1016	GC06	A	08/11/04 11:24
QC260724	Aroclor-1260	GC06	A	08/11/04 11:24
QC260724	TCMX	GC06	A	08/11/04 11:24
QC260724	Decachlorobiphenyl	GC06	A	08/11/04 11:24
QC260725	Aroclor-1016	GC06	A	08/11/04 11:58
QC260725	Aroclor-1260	GC06	A	08/11/04 11:58
QC260725	TCMX	GC06	A	08/11/04 11:58
QC260725	Decachlorobiphenyl	GC06	A	08/11/04 11:58
QC260726	Aroclor-1016	GC06	A	08/11/04 12:32
QC260726	Aroclor-1260	GC06	A	08/11/04 12:32
QC260726	TCMX	GC06	A	08/11/04 12:32
QC260726	Decachlorobiphenyl	GC06	A	08/11/04 12:32

Curtis & Tompkins Laboratories Sample Preparation Summary 11-AUG-2004 15:55

Batch Number : 93632
Date Extracted: 10-AUG-2004
Extracted by : Coral E. Weese
Prep Method : 3550

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS0993A
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173735-008			Tetra Tech FW	Soil	30.22	g	25	0.827267	1		.05	0		PCB	3665A	mss
173748-007			East Bay Regional Park Distric	Soil	29.69	g	25	0.842034	1		.05	0		PCB	3665A	
173752-003			Tetra Tech FW	Soil	30.18	g	25	0.828363	1		.05	0		PCB	3665A	
173752-004			Tetra Tech FW	Soil	30	g	25	0.833333	1		.05	0		PCB	3665A	
173752-005			Tetra Tech FW	Soil	30.05	g	25	0.831947	1		.05	0		PCB	3665A	
173752-006			Tetra Tech FW	Soil	30.33	g	25	0.824266	1		.05	0		PCB	3665A	
173752-007			Tetra Tech FW	Soil	30.44	g	25	0.821288	1		.05	0		PCB	3665A	
173752-008			Tetra Tech FW	Soil	30.18	g	25	0.828363	1		.05	0		PCB	3665A	
173752-009			Tetra Tech FW	Soil	29.52	g	25	0.846883	1		.05	0		PCB	3665A	
173752-010			Tetra Tech FW	Soil	30.49	g	25	0.819941	1		.05	0		PCB	3665A	
173752-011			Tetra Tech FW	Soil	30.03	g	25	0.832501	1		.05	0		PCB	3665A	
173752-012			Tetra Tech FW	Soil	30.32	g	25	0.824538	1		.05	0		PCB	3665A	
173752-013			Tetra Tech FW	Soil	30.12	g	25	0.830013	1		.05	0		PCB	3665A	
173752-014			Tetra Tech FW	Soil	29.67	g	25	0.842602	1		.05	0		PCB	3665A	
173863-001			Burns & McDonnell	Miscell.	29.66	g	25	0.842886	1		.05	0		PCB	3665A	
173866-001			URS Corporation	Soil	30.45	g	25	0.821018	1		.05	0		PCB	3665A	
173866-002			URS Corporation	Soil	30.45	g	25	0.821018	1		.05	0		PCB	3665A	
173875-001			Treadwell & Rollo	Soil	30.02	g	25	0.832778	1		.05	0		PCB	3665A	
173875-002			Treadwell & Rollo	Soil	30.22	g	25	0.827267	1		.05	0		PCB	3665A	
QC260723	MB			Soil	30.1	g	25	0.830565	1		.05	0		PCB	3665A	
QC260724	LCS			Soil	30.27	g	25	0.825900	1		.05	.05		PCB	3665A	
QC260725	MS	of 173735-008		Soil	30.02	g	25	0.832778	1		.05	.05		PCB	3665A	
QC260726	MSD	of 173735-008		Soil	30.08	g	25	0.831117	1		.05	.05		PCB	3665A	

Prep Chemist: Coral Weese Reviewed By: Jennifer Wolff Date: 8/10/04

Relinquished By: Coral Weese Received By: DB Date: 8/11/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

BK 1940

Page 56

LIMS Batch No: 93632
LIMS Analysis PCB
Extracted by: ~~SPIK~~ CW
Date Extracted: 08/10/04

☒ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ EPA 3545 PFE (ASE Method# _____)
☐ Other _____

	Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
	MB QC260723	30.10	25.0	
	LCS 260724	30.27		
	MS 260725	30.02		173735-008
	MSD 260726	30.08		↓
SPIK 08/10/04	~~173758~~ 173735-008	30.22		MSS
	173752-003	30.18		
	-004	30.00		
	-005	30.05		
	-006	30.33		
10	-007	30.44		
	-008	30.18		
	-009	29.52 ~~30.49~~ SPIK 08/10/04		
	-010	30.49		
	-011	30.03		
15	-012	30.32		
	-013	30.12		
	-014	29.67		
	173875-001	30.02		
	-002	30.22		
20	173866-001	30.45		
	173866-002	30.45		
	173863-001	29.66		
	173748-002	29.69		

CW 8/10/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM433/0418	CW 8/10/04
dried with CH_2Cl_2-rinsed ☒ granular Na_2SO_4 ☐ diatomaceous earth	~~04W50993A~~	
0.05 mL of surrogate solution was added to all samples	~~04W51393C~~ 04W51343C	
0.05 mL of spike solution 16/60 was added to all spikes	04W51370A	
1:1 CH_2Cl_2 (lot# 44199):Acetone(lot# 44085) was added to all	✓	
☒ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	NA	
PFE (ASE) / soxhlets on at:		
PFE (ASE) / soxhlets off at:	✓	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~granular~~ powder Na_2SO_4	JTBA17H5D	
Concentrated to volumes noted above after exchange to Hexane Lot#	BJC16898	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTBX260046	
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	
Centrifuged for 1min; 10mL transferred to labelled vial	✓	

Carol Weese 8/10/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jennifer Alcell 8/10/04
Reviewed by / Date

PROJECT Soil aliquot

Notebook No. _____

Continued From Page _____

Sample ID	Weight (g)	Analysis	Comments
MB	30.10	PCB	EM43310410
LCS	30.27		
MS	30.02		
MSD	30.08		
173735-008A	30.22		MSS
173752-003A	30.18		
-004A	30.00		
-005C	30.05		
-006C	30.33		
-007C	30.44		
-008B	30.18		
-010C	30.49		
173752-009C	29.52		
-011B	30.03		
-012B	30.32		
-013A	30.12		
173875-001A	30.02		
-002A	30.22		
173752-014B	29.67		
173866-001A	30.45		
173863-001A	29.66		
173748-007B	29.69		
173866-002A	30.45		

Continued on Page

Read and Understood By

Signed: [signature] Date: 08/10/04

Signed: Date:

PCBs	GC_06a	GC_06b	GC_22a	GC_22b		
Soil MDLs (ug/Kg)	12/19/03	12/19/03	12/19/03	12/19/03		
Aroclor 1016	3.9	9.0	2.2	2.4		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	4/10/04	4/10/04	4/19/04	4/19/04		
Aroclor 1221	18	15	12	12		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	2/18/04	2/18/04	2/17/04	2/17/04		
Aroclor 1232	4.0	4.8	8.5	8.8		
	GC_06a	**GC_06b**	**GC_14a**	**GC_14b**	**GC_22a**	**GC_22b**
	2/18/04	2/18/04	5/04/04	5/04/04	1/15/04	1/15/04
Aroclor 1242	5.5	5.1	4.1	3.5	3.2	1.9
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	12/11/03	12/11/03	1/23/04	1/23/04		
Aroclor 1248	3.1	3.4	3.2	7.8		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	8/12/03	8/12/03	7/26/03	7/26/03		
Aroclor 1254	5.4	3.2	2.6	1.8		
	GC_06a	**GC_06b**	**GC_22a**	**GC_22b**		
	12/19/03	12/19/03	12/19/03	12/19/03		
Aroclor 1260	3.9	3.9	1.7	4.5		

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX109[0.5]	Batch#:	93570
Lab ID:	173875-001	Sampled:	08/06/04
Matrix:	Soil	Received:	08/06/04
Units:	mg/Kg	Prepared:	08/09/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL
Antimony	ND	3.4
Arsenic	4.5	0.29
Barium	30	0.57
Beryllium	ND	0.11
Cadmium	ND	0.29
Chromium	170	0.57
Cobalt	10	1.1
Copper	17	0.57
Lead	23	0.17
Molybdenum	ND	1.1
Nickel	31	1.1
Selenium	ND	0.29
Silver	ND	0.29
Thallium	ND	0.29
Vanadium	57	0.57
Zinc	52	1.1

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX110[0.5]	Batch#:	93570
Lab ID:	173875-002	Sampled:	08/06/04
Matrix:	Soil	Received:	08/06/04
Units:	mg/Kg	Prepared:	08/09/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	2.6	0.25
Barium	29	0.50
Beryllium	ND	0.099
Cadmium	ND	0.25
Chromium	57	0.50
Cobalt	6.8	0.99
Copper	5.8	0.50
Lead	9.4	0.15
Molybdenum	ND	0.99
Nickel	42	0.99
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	39	0.50
Zinc	28	0.99

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260486	Batch#:	93570
Matrix:	Soil	Prepared:	08/09/04
Units:	mg/Kg	Analyzed:	08/09/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93570
Units:	mg/Kg	Prepared:	08/09/04
Basis:	as received	Analyzed:	08/09/04
Diln Fac:	1.000		

Type: BS Lab ID: QC260487

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	97.50	98	75-125
Arsenic	50.00	50.50	101	75-125
Barium	100.0	96.00	96	75-125
Beryllium	2.500	2.490	100	75-125
Cadmium	10.00	9.800	98	75-125
Chromium	100.0	97.50	98	75-125
Cobalt	25.00	24.30	97	75-125
Copper	12.50	12.50	100	75-125
Lead	100.0	99.00	99	75-125
Molybdenum	20.00	19.55	98	75-125
Nickel	25.00	24.30	97	75-125
Selenium	50.00	50.00	100	75-125
Silver	10.00	10.05	101	75-125
Thallium	50.00	48.55	97	75-125
Vanadium	25.00	24.60	98	75-125
Zinc	25.00	24.20	97	75-125

Type: BSD Lab ID: QC260488

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.0	100	75-125	3	30
Arsenic	50.00	51.00	102	75-125	1	30
Barium	100.0	96.50	97	75-125	1	30
Beryllium	2.500	2.510	100	75-125	1	30
Cadmium	10.00	9.800	98	75-125	0	30
Chromium	100.0	98.00	98	75-125	1	30
Cobalt	25.00	24.45	98	75-125	1	30
Copper	12.50	12.60	101	75-125	1	30
Lead	100.0	99.50	100	75-125	1	30
Molybdenum	20.00	19.80	99	75-125	1	30
Nickel	25.00	24.35	97	75-125	0	30
Selenium	50.00	50.50	101	75-125	1	30
Silver	10.00	10.10	101	75-125	0	30
Thallium	50.00	48.65	97	75-125	0	30
Vanadium	25.00	24.70	99	75-125	0	30
Zinc	25.00	24.30	97	75-125	0	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	93570
MSS Lab ID:	173852-001	Sampled:	08/04/04
Matrix:	Soil	Received:	08/05/04
Units:	mg/Kg	Prepared:	08/09/04
Basis:	as received	Analyzed:	08/09/04
Diln Fac:	1.000		

Type: MS Lab ID: QC260489

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.441	106.4	60.11	55 *	75-125
Arsenic	2.688	53.19	54.79	98	75-125
Barium	42.20	106.4	162.8	113	75-125
Beryllium	0.08871	2.660	2.681	97	75-125
Cadmium	<0.02100	10.64	10.11	95	75-125
Chromium	16.24	106.4	118.6	96	75-125
Cobalt	3.699	26.60	29.10	95	75-125
Copper	6.129	13.30	21.12	113	75-125
Lead	2.720	106.4	103.7	95	75-125
Molybdenum	0.2317	21.28	19.47	90	75-125
Nickel	17.26	26.60	46.01	108	75-125
Selenium	<0.1800	53.19	51.38	97	75-125
Silver	<0.02900	10.64	10.21	96	75-125
Thallium	<0.1600	53.19	50.11	94	75-125
Vanadium	27.15	26.60	53.19	98	75-125
Zinc	19.03	26.60	46.97	105	75-125

Type: MSD Lab ID: QC260490

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	70.42	38.03	52 *	75-125	5	30
Arsenic	35.21	36.62	96	75-125	1	30
Barium	70.42	108.1	94	75-125	13	30
Beryllium	1.761	1.810	98	75-125	0	30
Cadmium	7.042	6.690	95	75-125	0	30
Chromium	70.42	79.93	90	75-125	5	30
Cobalt	17.61	20.35	95	75-125	1	30
Copper	8.803	14.51	95	75-125	11	30
Lead	70.42	69.01	94	75-125	1	30
Molybdenum	14.08	12.99	91	75-125	0	30
Nickel	17.61	33.91	95	75-125	8	30
Selenium	35.21	33.66	96	75-125	1	30
Silver	7.042	6.761	96	75-125	0	30
Thallium	35.21	32.92	94	75-125	1	30
Vanadium	17.61	41.55	82	75-125	6	30
Zinc	17.61	36.27	98	75-125	4	30

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74320091010
Filename : tr244479
IDF : 1.0
PDF : 53.76
Run type : MSS
Samplenum: 173852-001
Matrix : Soil
Batchnum : 93570
Inj : 09-AUG-2004 07:51
Units : mg/Kg

Instid : MET07
Seqnum : 74320091011
Filename : tr244480
IDF : 5.0
PDF : 53.76
Run type : SER
Samplenum: QC260491
Matrix : Soil
Batchnum : 93570
Inj : 09-AUG-2004 07:57

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	5300	5.38	5020	26.9	5	10	
Antimony	ND	3.23	ND	16.1	--	10	u
Arsenic	2.69	0.269	2.34	1.34	--	10	r b*
Barium	42.2	0.538	40.9	2.69	3	10	u
Beryllium	ND	0.108	ND	0.538	--	10	u
Cadmium	ND	0.269	ND	1.34	--	10	u
Calcium	2500	26.9	2500	134	0	10	
Chromium	16.2	0.538	16.2	2.69	0	10	u
Cobalt	3.70	1.08	ND	5.38	--	10	u
Copper	6.13	0.538	6.08	2.69	1	10	u
Iron	*** usable MSS data not found ***						
Lead	2.72	0.161	2.54	0.806	7	10	u
Magnesium	2110	26.9	2080	134	1	10	
Manganese	149	0.538	147	2.69	2	10	
Molybdenum	ND	1.08	ND	5.38	--	10	u
Nickel	17.3	1.08	17.3	5.38	0	10	u
Selenium	ND	0.269	ND	1.34	--	10	u
Silver	ND	0.269	ND	1.34	--	10	u
Thallium	ND	0.269	ND	1.34	--	10	u
Vanadium	27.2	0.538	26.6	2.69	2	10	u
Zinc	19.0	1.08	18.8	5.38	1	10	u
Titanium	*** usable MSS data not found ***						

b=noncompliant r=RSD out u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74320091010	Seqnum	: 74320091012
Filename	: tr244479	Filename	: tr244481
IDF	: 1.0	IDF	: 5.0
PDF	: 53.76	PDF	: 53.76
Run type	: MSS	Run type	: SER
Samplenum	: 173852-001	Samplenum	: QC260491
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93570	Batchnum	: 93570
Inj	: 09-AUG-2004 07:51	Inj	: 09-AUG-2004 08:02
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	5300	5.38	5060	26.9	5	10	
Antimony	ND	3.23	ND	16.1	--	10	
Arsenic	2.69	0.269	2.56	1.34	--	10	u
Barium	42.2	0.538	41.1	2.69	3	10	
Beryllium	ND	0.108	ND	0.538	--	10	
Cadmium	ND	0.269	ND	1.34	--	10	
Calcium	2500	26.9	2510	134	1	10	
Chromium	16.2	0.538	16.2	2.69	0	10	
Cobalt	3.70	1.08	ND	5.38	--	10	
Copper	6.13	0.538	6.10	2.69	0	10	
Iron	*** usable MSS data not found ***						
Lead	2.72	0.161	2.49	0.806	8	10	
Magnesium	2110	26.9	2090	134	1	10	
Manganese	149	0.538	147	2.69	1	10	
Molybdenum	ND	1.08	ND	5.38	--	10	
Nickel	17.3	1.08	17.3	5.38	0	10	
Selenium	ND	0.269	ND	1.34	--	10	
Silver	ND	0.269	ND	1.34	--	10	
Thallium	ND	0.269	ND	1.34	--	10	
Vanadium	27.2	0.538	26.7	2.69	2	10	
Zinc	19.0	1.08	18.9	5.38	1	10	
Titanium	*** usable MSS data not found ***						

u=use

Method: 6010B Standard: blank
Run Time: 08/09/04 06:36:35

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.003	.002	.000	.002	-.236	.005	.000
SDev	.005	.001	.002	.001	.001	.001	.000
%RSD	158.	19.9	555.	39.6	.233	26.4	18.8
#1	.007	.002	.001	.003	-.236	.006	.000
#2	-.000	.003	-.001	.002	-.235	.004	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.006	.006	.001	.031	.002	-.010
SDev	.000	.000	.001	.003	.030	.001	.002
%RSD	11.7	5.64	7.85	184.	95.0	49.8	17.2
#1	-.001	.007	.006	.003	.052	.001	-.008
#2	-.001	.006	.006	-.000	.010	.003	-.011

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	-.001	-.001	.001	.028	.0501	-.0032
SDev	.002	.000	.003	.000	.000	.0004	.0000
%RSD	28.1	34.0	252.	38.1	1.22	.7949	.2091
#1	.009	-.000	.001	.001	.028	.0504	-.0032
#2	.006	-.001	-.003	.000	.027	.0498	-.0032

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0013	.0002	.001	.160
SDev	.0003	.0001	.001	.007
%RSD	25.60	50.88	71.3	4.22
#1	-.0015	.0001	.002	.165
#2	-.0010	.0002	.001	.155

Method: 6010B Standard: cst hi
Run Time: 08/09/04 06:40:30

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.30	.738	.288	15.1	2.58	1.08	.222
SDev	.06	.029	.013	.6	.12	.05	.010
%RSD	4.69	3.94	4.64	3.87	4.53	4.37	4.53
#1	1.26	.717	.279	14.7	2.50	1.04	.215
#2	1.35	.758	.298	15.5	2.66	1.11	.229

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.716	.478	.834	.840	2.13	1.78	.311
SDev	.031	.017	.029	.038	.14	.08	.008
%RSD	4.34	3.53	3.47	4.56	6.58	4.50	2.57
#1	.694	.466	.813	.813	2.03	1.73	.306
#2	.738	.490	.854	.868	2.23	1.84	.317

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.354	.268	.200	.817	.194	.1506	.2763
SDev	.015	.009	.012	.035	.008	.0046	.0140
%RSD	4.34	3.32	6.16	4.32	4.01	3.091	5.050
#1	.343	.262	.191	.792	.188	.1473	.2665
#2	.364	.274	.209	.842	.199	.1539	.2862

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1099	.1584	1.03	6.53
SDev	.0018	.0070	.04	.28
%RSD	1.589	4.411	4.30	4.25
#1	.1087	.1535	1.00	6.34
#2	.1112	.1634	1.06	6.73

Standardization Report 08/09/04 06:44:00 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	764.677	-2.62894	08/09/04 06:40:30
Sb206A	206.832	Multiple	Standards	1333.17	-3.26888	08/09/04 06:40:30
As1890	189.042	Multiple	Standards	1738.19	-.455478	08/09/04 06:40:30
Ba4934	493.409	Multiple	Standards	66.3045	-.145914	08/09/04 06:40:30
Be3130	313.042	Multiple	Standards	34.2848	8.07827	08/09/04 06:40:30
Cd2265	226.502	Multiple	Standards	93.3251	-.455787	08/09/04 06:40:30
Cr2677	267.716	Multiple	Standards	902.457	-.283713	08/09/04 06:40:30
Co2286	228.616	Multiple	Standards	699.329	.678744	08/09/04 06:40:30
Cu3247	324.754	Multiple	Standards	424.203	-2.66638	08/09/04 06:40:30
Pb2203	220.351	Multiple	Standards	604.733	-3.58086	08/09/04 06:40:30
Pb220A	220.352	Multiple	Standards	590.695	-.796602	08/09/04 06:40:30
Mo2020	202.030	Multiple	Standards	476.264	-14.9250	08/09/04 06:40:30
Ni2316	231.604	Multiple	Standards	280.830	-.543674	08/09/04 06:40:30
Se1960	196.021	Multiple	Standards	1558.59	15.0513	08/09/04 06:40:30
Se196A	196.022	Multiple	Standards	1442.83	-10.6491	08/09/04 06:40:30
Ag3280	328.068	Multiple	Standards	372.793	.240836	08/09/04 06:40:30
Tl1908	190.864	Multiple	Standards	2507.19	2.74765	08/09/04 06:40:30
V_2924	292.402	Multiple	Standards	612.350	-.403129	08/09/04 06:40:30
Zn2138	213.856	Multiple	Standards	622.216	-17.1820	08/09/04 06:40:30
Al3082	308.215	Multiple	Standards	10138.1	-507.917	08/09/04 06:40:30
Ca3179	317.933	Multiple	Standards	7154.54	22.8441	08/09/04 06:40:30
Fe2714	271.441	Multiple	Standards	9412.32	11.8731	08/09/04 06:40:30
Mg2790	279.079	Multiple	Standards	12632.0	-2.15096	08/09/04 06:40:30
Mn2576	257.610	Multiple	Standards	97.0258	-.139451	08/09/04 06:40:30
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/09/04 06:40:30
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/09/04 06:40:30
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/09/04 06:40:30
Ti3349	334.941	Multiple	Standards	156.863	-25.0724	08/09/04 06:40:30

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74320091001
Run Name :
Filename : tr244469
Injected : 09-AUG-2004 06:51
Caltype :

Standards: 04WS1252

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	963.5000	ug/L	-4	5	
Antimony	1000.000	971.0000	ug/L	-3	5	
Arsenic	500.0000	488.0000	ug/L	-2	5	
Barium	1000.000	972.0000	ug/L	-3	5	
Beryllium	100.0000	97.70000	ug/L	-2	5	
Cadmium	100.0000	96.80000	ug/L	-3	5	
Calcium	2000.000	1959.000	ug/L	-2	5	
Chromium	200.0000	195.0000	ug/L	-3	5	
Cobalt	500.0000	486.0000	ug/L	-3	5	
Copper	200.0000	195.0000	ug/L	-3	5	
Iron	1000.000	970.2000	ug/L	-3	5	
Lead	500.0000	488.0000	ug/L	-2	5	
Magnesium	2000.000	1950.000	ug/L	-3	5	
Manganese	100.0000	97.60000	ug/L	-2	5	
Molybdenum	1000.000	977.0000	ug/L	-2	5	
Nickel	500.0000	485.0000	ug/L	-3	5	
Selenium	500.0000	484.0000	ug/L	-3	5	
Silver	100.0000	97.60000	ug/L	-2	5	
Thallium	500.0000	488.0000	ug/L	-2	5	
Titanium	1000.000	973.0000	ug/L	-3	5	
Vanadium	500.0000	487.0000	ug/L	-3	5	
Zinc	100.0000	96.70000	ug/L	-3	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74320091002 Filename : tr244470 Injected : 09-AUG-2004 06:55
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	500.0000	458.8000	ug/L	-8	10
Antimony	500.0000	490.0000	ug/L	-2	10
Arsenic	250.0000	241.0000	ug/L	-4	10
Barium	500.0000	469.0000	ug/L	-6	10
Beryllium	50.00000	47.90000	ug/L	-4	10
Cadmium	50.00000	48.00000	ug/L	-4	10
Calcium	1000.000	964.0000	ug/L	-4	10
Chromium	100.0000	96.00000	ug/L	-4	10
Cobalt	250.0000	234.0000	ug/L	-6	10
Copper	100.0000	96.80000	ug/L	-3	10
Iron	500.0000	482.3000	ug/L	-4	10
Lead	250.0000	243.0000	ug/L	-3	10
Magnesium	1000.000	959.9000	ug/L	-4	10
Manganese	50.00000	46.80000	ug/L	-6	10
Molybdenum	500.0000	488.0000	ug/L	-2	10
Nickel	250.0000	238.0000	ug/L	-5	10
Selenium	250.0000	237.0000	ug/L	-5	10
Silver	50.00000	47.80000	ug/L	-4	10
Thallium	250.0000	232.0000	ug/L	-7	10
Titanium	500.0000	481.0000	ug/L	-4	10
Vanadium	250.0000	236.0000	ug/L	-6	10
Zinc	50.00000	47.50000	ug/L	-5	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74320091004 Filename : tr244472 Injected : 09-AUG-2004 07:13
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	101.6000	ug/L	2	50	
Antimony	60.00000	57.40000	ug/L	-4	50	
Arsenic	5.000000	3.250000	ug/L	-35	50	
Barium	10.00000	9.550000	ug/L	-5	50	
Beryllium	2.000000	1.710000	ug/L	-15	50	
Cadmium	5.000000	5.010000	ug/L	0	50	
Calcium	200.0000	216.1000	ug/L	8	50	
Chromium	10.00000	10.10000	ug/L	1	50	
Cobalt	20.00000	19.30000	ug/L	-4	50	
Copper	10.00000	10.30000	ug/L	3	50	
Iron	100.0000	127.4000	ug/L	27	50	
Lead	3.000000	2.880000	ug/L	-4	50	
Magnesium	200.0000	202.4000	ug/L	1	50	
Manganese	10.00000	9.760000	ug/L	-2	50	
Molybdenum	20.00000	20.10000	ug/L	1	50	
Nickel	20.00000	19.70000	ug/L	-2	50	
Selenium	5.000000	3.960000	ug/L	-21	50	
Silver	5.000000	5.040000	ug/L	1	50	
Thallium	5.000000	2.920000	ug/L	-42	50	
Vanadium	10.00000	10.10000	ug/L	1	50	
Zinc	20.00000	20.00000	ug/L	0	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74320091013
Run Name :
Filename : tr244482
IDF : 1.0
Injected : 09-AUG-2004 08:06
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	457.3000	ug/L	-9	10	
Antimony		500.0000	493.0000	ug/L	-1	10	
Arsenic		250.0000	244.0000	ug/L	-2	10	
Barium		500.0000	479.0000	ug/L	-4	10	
Beryllium		50.00000	48.30000	ug/L	-3	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	979.2000	ug/L	-2	10	
Chromium		100.0000	97.70000	ug/L	-2	10	
Cobalt		250.0000	238.0000	ug/L	-5	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	533.3000	ug/L	7	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	969.2000	ug/L	-3	10	
Manganese		50.00000	47.50000	ug/L	-5	10	
Molybdenum		500.0000	483.0000	ug/L	-3	10	
Nickel		250.0000	242.0000	ug/L	-3	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	48.50000	ug/L	-3	10	
Thallium		250.0000	226.0000	ug/L	-10	10	
Titanium		500.0000	491.0000	ug/L	-2	10	
Vanadium		250.0000	240.0000	ug/L	-4	10	
Zinc		50.00000	48.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74320091025
Run Name :
Filename : tr244494
IDF : 1.0
Injected : 09-AUG-2004 09:03
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	758.0000	ug/L	1	10	
Antimony		750.0000	744.0000	ug/L	-1	10	
Arsenic		375.0000	365.0000	ug/L	-3	10	
Barium		750.0000	720.0000	ug/L	-4	10	
Beryllium		75.00000	73.60000	ug/L	-2	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1503.000	ug/L	0	10	
Chromium		150.0000	148.0000	ug/L	-1	10	
Cobalt		375.0000	360.0000	ug/L	-4	10	
Copper		150.0000	151.0000	ug/L	1	10	
Iron		750.0000	819.0000	ug/L	9	10	
Lead		375.0000	365.0000	ug/L	-3	10	
Magnesium		1500.000	1510.000	ug/L	1	10	
Manganese		75.00000	72.70000	ug/L	-3	10	
Molybdenum		750.0000	732.0000	ug/L	-2	10	
Nickel		375.0000	364.0000	ug/L	-3	10	
Selenium		375.0000	361.0000	ug/L	-4	10	
Silver		75.00000	74.00000	ug/L	-1	10	
Thallium		375.0000	344.0000	ug/L	-8	10	
Titanium		750.0000	741.0000	ug/L	-1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	73.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74320091037

Run Name :
Filename : tr244506

IDF : 1.0
Injected : 09-AUG-2004 09:56
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	479.5000	ug/L	-4	10	
Antimony		500.0000	495.0000	ug/L	-1	10	
Arsenic		250.0000	240.0000	ug/L	-4	10	
Barium		500.0000	466.0000	ug/L	-7	10	
Beryllium		50.00000	49.50000	ug/L	-1	10	
Cadmium		50.00000	47.20000	ug/L	-6	10	
Calcium		1000.000	1046.000	ug/L	5	10	
Chromium		100.0000	99.40000	ug/L	-1	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	532.3000	ug/L	6	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	1023.000	ug/L	2	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	240.0000	ug/L	-4	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	228.0000	ug/L	-9	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	49.40000	ug/L	-1	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74320091003 Run Name: Injected: 09-AUG-2004 07:09
Filename: tr244471 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.5000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74320091014 Run Name: Injected: 09-AUG-2004 08:16
Filename: tr244483 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.0800]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[31.600]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[27.250]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[18.180]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.3800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.1700]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74320091026 Run Name: Injected: 09-AUG-2004 09:08
Filename: tr244495 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.810]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[57.240]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[22.920]	500.0000	ug/L	<RL
Manganese	[0.7350]	10.00000	ug/L	<RL
Molybdenum	[2.4300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.8500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74320091038 Run Name: Injected: 09-AUG-2004 10:09
Filename: tr244507 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[51.140]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[26.640]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[24.990]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.1800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74320091005 Run Name: Injected: 09-AUG-2004 07:19
Filename: tr244473 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[0.3880]	60.00000	ug/L	<RL
Arsenic	[0.1490]	5.000000	ug/L	<RL
Barium	[0.0120]	10.00000	ug/L	<RL
Beryllium	[-1.040]	2.000000	ug/L	<RL
Cadmium	[-0.348]	5.000000	ug/L	<RL
Chromium	[2.9800]	10.00000	ug/L	<RL
Cobalt	[0.5790]	10.00000	ug/L	<RL
Copper	[-3.190]	10.00000	ug/L	<RL
Lead	[1.1500]	3.000000	ug/L	<RL
Manganese	[2.0500]	10.00000	ug/L	<RL
Molybdenum	[-1.680]	20.00000	ug/L	<RL
Nickel	[1.9000]	20.00000	ug/L	<RL
Selenium	[-3.390]	5.000000	ug/L	<RL
Silver	[-0.042]	5.000000	ug/L	<RL
Thallium	[0.9970]	5.000000	ug/L	<RL
Titanium	22.90000	10.00000	ug/L	<RL a+ ***
Vanadium	[-4.280]	10.00000	ug/L	<RL
Zinc	[8.3900]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	515200	ug/L	103
Calcium	500000	455500.	ug/L	91
Iron	200000	175800	ug/L	88
Magnesium	500000	521000	ug/L	104

+=high bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74320091006
Run Name :
Filename : tr244474
Injected : 09-AUG-2004 07:23
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	501300.0	ug/L	0		
Antimony	500.0000	518.0000	ug/L	4	20	
Arsenic	500.0000	485.0000	ug/L	-3	20	
Barium	500.0000	451.0000	ug/L	-10	20	
Beryllium	500.0000	470.0000	ug/L	-6	20	
Cadmium	1000.000	861.0000	ug/L	-14	20	
Calcium	500000.0	445100.0	ug/L	-11		
Chromium	500.0000	442.0000	ug/L	-12	20	
Cobalt	500.0000	449.0000	ug/L	-10	20	
Copper	500.0000	490.0000	ug/L	-2	20	
Iron	200000.0	171400.0	ug/L	-14		
Lead	1000.000	933.0000	ug/L	-7	20	
Magnesium	500000.0	508000.0	ug/L	2		
Manganese	500.0000	444.0000	ug/L	-11	20	
Molybdenum	500.0000	469.0000	ug/L	-6	20	
Nickel	1000.000	848.0000	ug/L	-15	20	
Selenium	500.0000	498.0000	ug/L	0	20	
Silver	1000.000	837.0000	ug/L	-16	20	
Thallium	500.0000	453.0000	ug/L	-9	20	
Titanium	20000.00	20000.00	ug/L	0		
Vanadium	500.0000	449.0000	ug/L	-10	20	
Zinc	1000.000	934.0000	ug/L	-7	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74320091036 Filename : tr244505 Injected : 09-AUG-2004 09:51
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	558600.0	ug/L	12		
Antimony	500.0000	534.0000	ug/L	7	20	
Arsenic	500.0000	506.0000	ug/L	1	20	
Barium	500.0000	471.0000	ug/L	-6	20	
Beryllium	500.0000	493.0000	ug/L	-1	20	
Cadmium	1000.000	872.0000	ug/L	-13	20	
Calcium	500000.0	458000.0	ug/L	-8		
Chromium	500.0000	467.0000	ug/L	-7	20	
Cobalt	500.0000	469.0000	ug/L	-6	20	
Copper	500.0000	518.0000	ug/L	4	20	
Iron	200000.0	179700.0	ug/L	-10		
Lead	1000.000	946.0000	ug/L	-5	20	
Magnesium	500000.0	531800.0	ug/L	6		
Manganese	500.0000	463.0000	ug/L	-7	20	
Molybdenum	500.0000	491.0000	ug/L	-2	20	
Nickel	1000.000	870.0000	ug/L	-13	20	
Selenium	500.0000	509.0000	ug/L	2	20	
Silver	1000.000	882.0000	ug/L	-12	20	
Thallium	500.0000	471.0000	ug/L	-6	20	
Titanium	20000.00	21200.00	ug/L	6		
Vanadium	500.0000	476.0000	ug/L	-5	20	
Zinc	1000.000	977.0000	ug/L	-2	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74320091 Instrument: MET07 TJA Trace ICP Begun: 09-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr244469	CS				09-AUG-2004 06:51	1.0	1.0			1	
002	tr244470	ICV				09-AUG-2004 06:55	1.0	1.0			2	
003	tr244471	ICB				09-AUG-2004 07:09	1.0	1.0				
004	tr244472	CRI				09-AUG-2004 07:13	1.0	1.0			3	
005	tr244473	ICSA				09-AUG-2004 07:19	1.0	1.0	1		4	4:MG=521000
006	tr244474	ICSAB				09-AUG-2004 07:23	1.0	1.0			5	5:MG=508000
007	tr244476	BLANK	QC260486	93570	Soil	09-AUG-2004 07:38	1.0	50.0	1			
008	tr244477	BS	QC260487	93570	Soil	09-AUG-2004 07:42	1.0	50.0	1			
009	tr244478	BSD	QC260488	93570	Soil	09-AUG-2004 07:46	1.0	50.0	1			
010	tr244479	MSS	173852-001	93570	Soil	09-AUG-2004 07:51	1.0	53.76	2			1:FE=215400
011	tr244480	SER	QC260491	93570	Soil	09-AUG-2004 07:57	5.0	53.76	1			
012	tr244481	SER	QC260491	93570	Soil	09-AUG-2004 08:02	5.0	53.76				
013	tr244482	CCV				09-AUG-2004 08:06	1.0	1.0			6	
014	tr244483	CCB				09-AUG-2004 08:16	1.0	1.0				
015	tr244484	MS	QC260489	93570	Soil	09-AUG-2004 08:20	1.0	53.19				2:FE=254400
016	tr244485	MSD	QC260490	93570	Soil	09-AUG-2004 08:24	1.0	35.21		1		3:FE=335500
017	tr244486	SAMPLE	173852-002	93570	Soil	09-AUG-2004 08:29	1.0	46.30				3:FE=245900
018	tr244487	SAMPLE	173852-004	93570	Soil	09-AUG-2004 08:33	1.0	53.19				2:FE=213200
019	tr244488	SAMPLE	173852-005	93570	Soil	09-AUG-2004 08:37	1.0	51.55				2:FE=234200
020	tr244489	SAMPLE	173852-008	93570	Soil	09-AUG-2004 08:41	1.0	38.17				3:FE=291700
021	tr244490	SAMPLE	173852-009	93570	Soil	09-AUG-2004 08:45	1.0	44.64				2:FE=227100
022	tr244491	SAMPLE	173852-014	93570	Soil	09-AUG-2004 08:49	1.0	38.76				3:FE=337800
023	tr244492	SAMPLE	173852-015	93570	Soil	09-AUG-2004 08:53	1.0	51.02				2:FE=238900
024	tr244493	SAMPLE	173852-016	93570	Soil	09-AUG-2004 08:57	1.0	42.74				4:FE=448800
025	tr244494	CCV				09-AUG-2004 09:03	1.0	1.0			7	
026	tr244495	CCB				09-AUG-2004 09:08	1.0	1.0				
027	tr244496	SAMPLE	173869-001	93570	Soil	09-AUG-2004 09:13	1.0	50.0				2:FE=297600
028	tr244497	SAMPLE	173869-002	93570	Soil	09-AUG-2004 09:17	1.0	44.25				2:FE=242000
029	tr244498	SAMPLE	173886-001	93570	Soil	09-AUG-2004 09:21	1.0	48.54	1			5:CA=508700
030	tr244499	SAMPLE	173875-001	93570	Soil	09-AUG-2004 09:25	1.0	55.56				4:FE=346300
031	tr244500	SAMPLE	173875-002	93570	Soil	09-AUG-2004 09:29	1.0	48.54				3:FE=282300

Stds used: 1=04WS1252 2=04WS1316 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319

Analyst: Date: 8/09/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74320091 Instrument: MET07 TJA Trace ICP Begun: 09-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr244501	SAMPLE	173873-001	93570	Miscel	09-AUG-2004 09:33	1.0	40.98	1		1:V=27200.0
033	tr244502	SAMPLE	173886-001	93570	Soil	09-AUG-2004 09:37	5.0	48.54			1:CA=107000
034	tr244503	X	173873-001	93570	Miscel	09-AUG-2004 09:42	2.0	40.98			
035	tr244504	SAMPLE	173873-001	93570	Miscel	09-AUG-2004 09:47	2.0	40.98			
036	tr244505	ICSAB				09-AUG-2004 09:51	1.0	1.0		5	5:AL=558600
037	tr244506	CCV				09-AUG-2004 09:56	1.0	1.0		6	
038	tr244507	CCB				09-AUG-2004 10:09	1.0	1.0			

83

Stds used: 1=04WS1252 2=04WS1316 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1317 7=04WS1319

Analyst: _____ Date: 8/09/04

REPORTING SUMMARY FOR 173875 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN	
173875-001	MET07	08/09/04 09:25	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
173875-002	MET07	08/09/04 09:29	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260486	MET07	08/09/04 07:38	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260487	MET07	08/09/04 07:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260488	MET07	08/09/04 07:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260489	MET07	08/09/04 08:20	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260490	MET07	08/09/04 08:24	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260491	MET07	08/09/04 07:57	5.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC260491	MET07	08/09/04 08:02	5.0		+															
QC260870	MET07	08/11/04 12:23	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary 09-AUG-2004 07:24

Batch Number : 93570
Date Extracted: 09-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173852-001			Blasland, Bouck & Lee	Soil	.93	g	50	53.763441	1					PP13/ICAP		mss
173852-002			Blasland, Bouck & Lee	Soil	1.08	g	50	46.296296	1					PP13/ICAP		
173852-004			Blasland, Bouck & Lee	Soil	.94	g	50	53.191489	1					PP13/ICAP		
173852-005			Blasland, Bouck & Lee	Soil	.97	g	50	51.546392	1					PP13/ICAP		
173852-008			Blasland, Bouck & Lee	Soil	1.31	g	50	38.167939	1					PP13/ICAP		
173852-009			Blasland, Bouck & Lee	Soil	1.12	g	50	44.642857	1					PP13/ICAP		
173852-014			Blasland, Bouck & Lee	Soil	1.29	g	50	38.759690	1					PP13/ICAP		
173852-015			Blasland, Bouck & Lee	Soil	.98	g	50	51.020408	1					PP13/ICAP		
173852-016			Blasland, Bouck & Lee	Soil	1.17	g	50	42.735043	1					PP13/ICAP		
173866-001			URS Corporation	Soil	.94	g	50	53.191489	1					T26/ICP		
173866-002			URS Corporation	Soil	1.03	g	50	48.543689	1					T26/ICP		
173869-001			Blasland, Bouck & Lee	Soil	1	g	50	50.000000	1					PP13/ICAP		
173869-002			Blasland, Bouck & Lee	Soil	1.13	g	50	44.247788	1					PP13/ICAP		
173873-001			ConocoPhillips Company	Miscell.	1.22	g	50	40.983607	1					V		
173873-002			ConocoPhillips Company	Miscell.	.93	g	50	53.763441	1					V		
173875-001			Treadwell & Rollo	Soil	.9	g	50	55.555556	1					T26/ICP		
173875-002			Treadwell & Rollo	Soil	1.03	g	50	48.543689	1					T26/ICP		
173886-001			Blasland, Bouck & Lee	Soil	1.03	g	50	48.543689	1					PP13/ICAP		
QC260486	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC260487	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260488	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC260489	MS	of 173852-001		Soil	.94	g	50	53.191489	1		.5	.5		ICAP		
QC260490	MSD	of 173852-001		Soil	1.42	g	50	35.211268	1		.5	.5		ICAP		
QC260491	SER	of 173852-001		Soil	.93	g	50	53.763441	1					ICAP		

Prep Chemist: [signature] for VV Reviewed By: [signature] Date: 8/09/04

Relinquished By: [signature] for VV Received By: [signature] Date: 8/09/04

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 93570
Date Digested: 8/6/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 30

Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK QC 260486		Ø	50.0	Y	
* BS 240486					
* BSD 240488					
* 173852-001 MS	A	0.94			
* -001 MSD		1.42			
-001		0.93			MSS
-002		1.08			
-004		0.94			
-005		0.97			
-008		1.31			
-009		1.12			
-014		1.29			
-015		0.98			
-016		1.17			
173866-001	A	0.94			
-002		1.03			
173869-001	A	1.00			
-002		1.13			
173873-001		1.22			comp ABC
-002		0.93			
173875-001	A	0.90			
-002		1.03			
173876-001	A	1.03			

0.5 mL of spike solution was added to all spikes

digestion temperature (90 - 95 degrees C)

1:1 HNO3

concentrated HNO3

3mL 30% hydrogen peroxide

concentrated HCl

☒ filtered thru' Whatman # 541

	Reagent ID or LIMS #	Initials / Date
	045171*	VV 8/6/04
	045172*	
	95C	
	A16051-080504	
	A16051-JTBaker	
	438739-VWR	
	A16039-JTBaker	
	E1S66057	

8/6/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

8/09/04
Reviewed by / Date

TAL/ ICP Metals	Trace ICP MET-07	Vertical ICP MET-01	ICP-MS* MET-05
Soil MDLs (mg/Kg)	7/20/04	7/20/04	5/26/04
Antimony	0.20	1.3	0.82
Arsenic	0.10	2.8	0.082
Barium	0.013	0.098	0.20
Beryllium	0.0063	0.029	0.052
Cadmium	0.028	0.14	0.011
Chromium	0.033	0.29	0.052
Cobalt	0.076	0.39	0.0035
Copper	0.057	0.11	0.097
Lead	0.065	7.9	0.0082
Molybdenum	0.062	0.43	0.0052
Nickel	0.067	0.64	0.30
Selenium	0.17	8.1	0.097
Silver	0.098	0.18	0.0032
Thallium	0.21	9.5	0.013
Vanadium	0.045	0.14	0.15
Zinc	0.17	0.17	0.056
Aluminum	0.52	1.5	0.58
Calcium	0.58	2.8	2.8
Iron	0.80	1.5	0.93
Magnesium	0.52	1.5	0.34
Manganese	0.11	0.11	0.019
Potassium	- -	18	1.1
Sodium	- -	2.8	4.2

* MDL calculation includes the 5x dilution which is standard for ICP-MS soils.

CVAA / Flame AA

Soil MDLs (mg/Kg)	MDL	Analyzed	Instrument
Mercury (EPA 7471A)	0.004	3/30/04	MET-04
	0.005	5/15/03	MET-03
Organic Lead (CA LUFT)	0.22	4/04/03	JE 4000

Miscellaneous Metals (EPA 6010B)	Vertical ICP MET-01
Soil MDLs (mg/Kg)	5/14/03
Boron	1.7
Tin	0.89
Titanium	0.14

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93590
Date: 08/09/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
173875-001	15.3619	21.0995	20.9418	97	3
173875-002	15.3419	21.1481	21.0260	98	2
QC260569	15.0878	21.3191	21.1854	98	2
of 173875-002			RPD:	0.0%	2.0%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93590
Date Started: 09-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
173875-001		Treadwell & Rollo	Soil	MOISTURE	09-AUG-2004
173875-002		Treadwell & Rollo	Soil	MOISTURE	09-AUG-2004
QC260569	SDUP of 173875-002		Soil	MOISTURE	

8/9/04

93590

Sample	Dil.	Dish #	Tare wt.	Init. wt.	Fin. wt. (4Hrs.)	Fin. wt. (1Hr.)	Comments
Blank		3	15.3461	—	15.3461	15.3459	
173875-1	A	OUO	15.3619	21.0995	20.9429	20.9418	
	2	A	15.3419	21.1481	21.0264	21.0260	
DUP	2	SEU	15.0878	21.3191	21.1857	21.1854	

QUICK ANALYSIS METHOD.

TIME IN: 9:08 A.M. OVEN: TEMP. 103°C
TIME OUT: 1:08 P.M.

TIME IN: 1:17 P.M.
TIME OUT: 2:17 P.M.

Continued on Page

Read and Understood By

R. Manuel 8/9/04 [illegible] [illegible]
Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 174073

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX111[0.5]	174073-001
BB3EX112[0.5]	174073-002
BB3EX113[0.5]	174073-003
BB3EX114[0.5]	174073-004
BB3EX115[0.5]	174073-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/7/04
Operations Manager

Signature: _____ Date: 9/7/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**174073**
Client:	**Treadwell & Rollo**
Project:	**2893.12**
Location:	**Presidio**
Request Date:	**08/18/04**
Samples Received:	**08/18/04**

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 08/18/04. The samples were received cold and intact.

Pesticides (EPA 8081A):
High ICAL percent RSDs (relative standard deviations) were observed for beta-BHC, delta-BHC, and endosulfan sulfate in the calibration analyzed 08/18/04 01:59; average ICAL %RSD met method requirements, and these analytes were not detected in the associated samples. High ICAL percent RSDs (relative standard deviations) were observed for endosulfan sulfate and endrin ketone in the calibration analyzed 08/19/04 22:41; average ICAL %RSD met method requirements, and these analytes were not detected in the associated samples. Low responses were observed for 4,4'-DDT and methoxychlor in the CCV analyzed 08/20/04 00:50; average CCV drift met method requirements. High response was observed for methoxychlor in the CCV analyzed 08/20/04 16:12; average CCV drift met method requirements, and this analyte was not detected in the associated samples. No other analytical problems were encountered.

PCBs (EPA 8082):
Low surrogate recovery was observed for decachlorobiphenyl in the MSD for batch 93858; the parent sample was not a project sample. No other analytical problems were encountered.

Metals (EPA 6010B):
Low recoveries were observed for antimony and vanadium in the MS/MSD of BB3EX111[0.5] (lab # 174073-001); the BS/BSD were within limits. The serial dilution sample analyzed on 8/19/04 at 08:23 was outside acceptance limits for copper. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

174073

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Signida Reinis
Samplers: Mike Chamberlain
Recorder (Signature Required): [signature]

Turnaround Time: 48hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	metals	Silica gel clean-up	Hold	Remarks
-1 BB3EX111 [0.5]	8/18/04	0831		X						X		X	X	X			
-2 BB3EX112 [0.5]	↓	0836		X						X		X	X	X			
-3 BB3EX113 [0.5]		0842		X						X		X	X	X			
-4 BB3EX114 [0.5]		0847		X						X		X	X	X			
-5 BB3EX115 [0.5]	8/18/04	0915		X						X		X	X	X			

Remarks: single tube from vial
double tube from vial
VOA vial

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/18/04	1215			
Tom Regi	8/18/04	1215			
			Received by Lab: (Signature)		

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002237

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174073 Date Received: 8/18/04 Number of Coolers: 1
Client: Treadwell+Rollo Project: Presidio-Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/18/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 8/18/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Ziploc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX111[0.5]	Batch#:	93856
Lab ID:	174073-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.34
beta-BHC	ND	1.8	0.42
gamma-BHC	ND	1.8	0.37
delta-BHC	ND	1.8	0.35
Heptachlor	ND	1.8	0.51
Aldrin	ND	1.8	0.42
Heptachlor epoxide	ND	1.8	0.52
Endosulfan I	ND	1.8	0.92
Dieldrin	ND	3.4	0.66
4,4'-DDE	ND	3.4	0.55
Endrin	ND	3.4	0.69
Endosulfan II	ND	3.4	0.99
Endosulfan sulfate	ND	3.4	0.80
4,4'-DDD	ND	3.4	0.70
Endrin ketone	ND	3.4	0.85
4,4'-DDT	ND #	3.4	1.2
Chlordane (Technical)	ND	31	3.9
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.48
Methoxychlor	ND #	18	2.8
Toxaphene	ND	62	12

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	81	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX112[0.5]	Batch#:	93856
Lab ID:	174073-002	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	dry	Analyzed:	08/20/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.60
beta-BHC	ND	1.8	0.54
gamma-BHC	ND	1.8	0.61
delta-BHC	ND	1.8	0.63
Heptachlor	ND	1.8	0.55
Aldrin	ND	1.8	0.60
Heptachlor epoxide	ND	1.8	0.66
Endosulfan I	ND	1.8	0.78
Dieldrin	ND	3.4	1.5
4,4'-DDE	ND	3.4	1.6
Endrin	ND	3.4	1.6
Endosulfan II	ND	3.4	1.7
Endosulfan sulfate	ND	3.4	1.7
4,4'-DDD	ND	3.4	1.5
Endrin ketone	ND	3.4	1.7
4,4'-DDT	ND	3.4	1.7
Chlordane (Technical)	ND	31	5.2
alpha-Chlordane	ND	1.8	0.74
gamma-Chlordane	ND	1.8	0.74
Methoxychlor	ND	18	10
Toxaphene	ND	62	12

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	72	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX113[0.5]	Batch#:	93856
Lab ID:	174073-003	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	dry	Analyzed:	08/20/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.59
beta-BHC	1.7 C	1.7	0.53
gamma-BHC	ND	1.7	0.59
delta-BHC	ND	1.7	0.62
Heptachlor	ND	1.7	0.53
Aldrin	ND	1.7	0.58
Heptachlor epoxide	ND	1.7	0.65
Endosulfan I	ND	1.7	0.75
Dieldrin	ND	3.3	1.5
4,4'-DDE	ND	3.3	1.5
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.6
Endosulfan sulfate	ND	3.3	1.7
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.6
4,4'-DDT	ND	3.3	1.7
Chlordane (Technical)	ND	30	4.9
alpha-Chlordane	ND	1.7	0.72
gamma-Chlordane	ND	1.7	0.72
Methoxychlor	ND	17	9.7
Toxaphene	ND	60	12

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	66	65-135

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX114[0.5]	Batch#:	93856
Lab ID:	174073-004	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	dry	Analyzed:	08/20/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.61
beta-BHC	ND	1.8	0.55
gamma-BHC	ND	1.8	0.63
delta-BHC	ND	1.8	0.65
Heptachlor	ND	1.8	0.56
Aldrin	ND	1.8	0.61
Heptachlor epoxide	ND	1.8	0.68
Endosulfan I	ND	1.8	0.79
Dieldrin	ND	3.5	1.6
4,4'-DDE	ND	3.5	1.7
Endrin	ND	3.5	1.7
Endosulfan II	ND	3.5	1.8
Endosulfan sulfate	ND	3.5	1.8
4,4'-DDD	ND	3.5	1.6
Endrin ketone	ND	3.5	1.8
4,4'-DDT	ND	3.5	1.8
Chlordane (Technical)	ND	32	5.3
alpha-Chlordane	ND	1.8	0.76
gamma-Chlordane	ND	1.8	0.76
Methoxychlor	ND	18	10
Toxaphene	ND	63	13

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	73	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX115[0.5]	Batch#:	93856
Lab ID:	174073-005	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	dry	Analyzed:	08/20/04
Diln Fac:	1.000		

Moisture: 5%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.61
beta-BHC	ND	1.8	0.55
gamma-BHC	ND	1.8	0.61
delta-BHC	ND	1.8	0.64
Heptachlor	ND	1.8	0.55
Aldrin	ND	1.8	0.60
Heptachlor epoxide	ND	1.8	0.67
Endosulfan I	ND	1.8	0.79
Dieldrin	6.8	3.4	1.6
4,4'-DDE	15	3.4	1.6
Endrin	ND	3.4	1.7
Endosulfan II	ND	3.4	1.7
Endosulfan sulfate	ND	3.4	1.8
4,4'-DDD	3.9	3.4	1.5
Endrin ketone	ND	3.4	1.7
4,4'-DDT	15	3.4	1.8
Chlordane (Technical)	ND	31	5.3
alpha-Chlordane	3.7 C	1.8	0.75
gamma-Chlordane	3.2	1.8	0.75
Methoxychlor	ND	18	10
Toxaphene	ND	62	13

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	93	65-135

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261642	Batch#:	93856
Matrix:	Soil	Prepared:	08/18/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.50
Endosulfan I	ND	1.7	0.90
Dieldrin	ND	3.3	0.64
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.96
Endosulfan sulfate	ND	3.3	0.78
4,4'-DDD	ND	3.3	0.68
Endrin ketone	ND	3.3	0.82
4,4'-DDT	ND #	3.3	1.2
Chlordane (Technical)	ND	30	3.8
alpha-Chlordane	ND	1.7	0.50
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND #	17	2.7
Toxaphene	ND	60	12

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	92	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC261643	Batch#:	93856
Matrix:	Soil	Prepared:	08/18/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.64	14.36	86	65-135
Heptachlor	16.64	16.48	99	65-135
Aldrin	16.64	14.88	89	65-135
Dieldrin	16.64	16.57	100	65-135
Endrin	16.64	17.48	105	65-135
4,4'-DDT	16.64	18.21 #	109	65-135

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	91	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	93856
MSS Lab ID:	174056-010	Sampled:	08/17/04
Matrix:	Soil	Received:	08/17/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	as received	Analyzed:	08/19/04
Diln Fac:	2.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC261644

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.7300	16.55	17.06	103	65-135
Heptachlor	<0.9800	16.55	18.97	115	65-135
Aldrin	<0.8200	16.55	16.84	102	65-135
Dieldrin	<1.300	16.55	17.61	106	65-135
Endrin	<1.300	16.55	18.55	112	65-135
4,4'-DDT	<2.400	16.55	17.03 #	103	65-135

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	96	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC261645

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.71	16.57	99	65-135	4	35
Heptachlor	16.71	18.10	108	65-135	6	35
Aldrin	16.71	15.78	94	65-135	8	35
Dieldrin	16.71	16.19	97	65-135	9	35
Endrin	16.71	17.07	102	65-135	9	35
4,4'-DDT	16.71	15.95 #	95	65-135	8	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	86	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234332698001 Name: Type: (normal) Date: 18-AUG-2004 01:59 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	230_017	234332698017	level_1	18-AUG-2004 01:59	04WS1513
2	230_018	234332698018	level_2	18-AUG-2004 02:29	04WS1512
3	230_019	234332698019	level_3	18-AUG-2004 03:00	04WS1511
4	230_020	234332698020	level_4	18-AUG-2004 03:31	04WS1434
5	230_021	234332698021	level_5	18-AUG-2004 04:01	04WS1509
6	230_022	234332698022	level_6	18-AUG-2004 04:32	04WS1508
7	230_023	234332698023	level_7	18-AUG-2004 05:03	04WS1507

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	11334	9844.5	13038	12436	13617	13670	13198	AVRG	R		8.033E-5		pg	12448	11	0.995	20	
gamma-BHC	A	11467	9762.8	12766	11771	12720	12547	12023	AVRG	R		8.428E-5		pg	11865	9	0.995	20	
beta-BHC	A	8941.5	6572.4	7389.3	6214.8	6576.2	6212.1	5901.6	AVRG	R		1.464E-4		pg	6829.7	15	0.995	20	
delta-BHC	A	15106	10591	12548	11086	12366	12127	11912	AVRG	R		8.165E-5		pg	12248	12	0.995	20	
Heptachlor	A	12253	9920.9	12465	10994	11275	10768	10258	AVRG	R		8.982E-5		pg	11134	9	0.995	20	
Aldrin	A	12548	10098	12070	10644	11469	10874	10403	AVRG	R		8.962E-5		pg	11158	8	0.995	20	
Heptachlor epoxide	A	14819	11586	13235	11049	11653	10136	9746.0	AVRG	R		8.513E-5		pg	11746	15	0.995	20	
gamma-Chlordane	A	14699	11344	13098	10858	11690	10287	10246	AVRG	R		8.514E-5		pg	11746	14	0.995	20	
alpha-Chlordane	A	14099	11306	12705	10889	11526	10010	10060	AVRG	R		8.685E-5		pg	11514	13	0.995	20	
4,4'-DDE	A	14198	11221	12918	10518	11068	9186.7	9285.1	AVRG	R		8.929E-5		pg	11199	16	0.995	20	
Endosulfan I	A	14447	11267	12883	10851	11564	9931.2	9939.4	AVRG	R		8.654E-5		pg	11555	14	0.995	20	
Dieldrin	A	13010	10632	12362	10409	11052	9160.8	9042.2	AVRG	R		9.251E-5		pg	10810	14	0.995	20	
Endrin	A	11515	9143.5	11081	8883.9	9304.7	7710.9	7725.2	AVRG	R		1.071E-4		pg	9337.9	16	0.995	20	
4,4'-DDD	A	9809.5	7910.4	9495.6	7816.4	8651.2	7297.7	7524.7	AVRG	R		1.196E-4		pg	8357.9	12	0.995	20	
Endosulfan II	A	14137	10838	12221	9768.4	10279	8349.0	8382.9	AVRG	R		9.463E-5		pg	10568	20	0.995	20	
4,4'-DDT	A	5172.4	4536.8	7694.2	6663.4	6967.0	6430.2	7238.0	AVRG	R		1.566E-4		pg	6386.0	18	0.995	20	
Endrin aldehyde	A	13765	9584.0	10013	7613.9	8554.4	6935.2	6976.0	AVRG	R		1.103E-4		pg	9063.0	26	0.995	20	rsd ***
Methoxychlor	A	3570.5	2924.3	3898.4	2956.5	3006.5	2584.1	2574.8	AVRG	R		3.254E-4		pg	3073.6	16	0.995	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234332698001 Name: Type: (normal) Date: 18-AUG-2004 01:59 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	14490	10405	11446	8854.7	9392.2			AVRG	R		9.159E-5		pg	10918	20	0.995	20	
Endrin ketone	A	13080	11159	12982	10128	10966	9052.8	8840.1	AVRG	R		9.185E-5		pg	10887	16	0.995	20	
TCMX	A	13264	10514	11822	10235	10363	9480.2	8609.4	AVRG	R		9.423E-5		pg	10613	14	0.995	20	
Decachlorobiphenyl	A		12053	12621	10371	9538.9	8005.4		AVRG	R		9.508E-5		pg	10518	18	0.995	20	
alpha-BHC	B	30937	26403	32912	30140	32360	31668	30796	AVRG	R		3.253E-5		pg	30745	7	0.995	20	
gamma-BHC	B	30310	24833	30429	26809	28559	27624	26848	AVRG	R		3.582E-5		pg	27916	7	0.995	20	
beta-BHC	B	22196	15756	16662	13489	14030	12916	12274	AVRG	R		6.522E-5		pg	15332	22	0.995	20	rsd ***
delta-BHC	B	44280	28696	30675	25514	27698	26341	25612	AVRG	R		3.352E-5		pg	29831	22	0.995	20	rsd ***
Heptachlor	B	22344	17716	20539	17650	18008	17174	16727	AVRG	R		5.378E-5		pg	18594	11	0.995	20	
Aldrin	B	30021	24447	28802	24942	26625	24920	24067	AVRG	R		3.808E-5		pg	26261	9	0.995	20	
Heptachlor epoxide	B	30916	23715	25985	21772	22674	19860	19619	AVRG	R		4.254E-5		pg	23506	17	0.995	20	
gamma-Chlordane	B	33869	25981	29260	24333	25824	22756	23602	AVRG	R		3.771E-5		pg	26518	15	0.995	20	
alpha-Chlordane	B	34548	26275	29445	24228	25642	22202	23092	AVRG	R		3.775E-5		pg	26490	16	0.995	20	
4,4'-DDE	B	26474	21621	25996	21867	23381	19907	17943	AVRG	R		4.453E-5		pg	22455	14	0.995	20	
Endosulfan I	B	30623	23246	26130	21720	22946	19578	19999	AVRG	R		4.262E-5		pg	23463	16	0.995	20	
Dieldrin	B	27980	22164	25788	21134	22229	18749	17801	AVRG	R		4.492E-5		pg	22264	16	0.995	20	
Endrin	B	22994	17333	20651	16201	17026	14303	15173	AVRG	R		5.660E-5		pg	17669	18	0.995	20	
4,4'-DDD	B	17600	13273	15839	12671	13953	11909	12901	AVRG	R		7.132E-5		pg	14021	14	0.995	20	
Endosulfan II	B	30055	21442	23657	18802	19774			AVRG	R		4.396E-5		pg	22746	20	0.995	20	
4,4'-DDT	B	8670.7	7425.7	11372	9815.5	10257	9547.6	11271	AVRG	R		1.024E-4		pg	9765.7	14	0.995	20	
Endrin aldehyde	B	25553	17890	19094	14149	15738	12981	13647	AVRG	R		5.880E-5		pg	17007	26	0.995	20	rsd ***
Methoxychlor	B	4909.2	3828.4	5066.6	3863.3	4020.6	3715.6	3461.8	AVRG	R		2.425E-4		pg	4123.7	15	0.995	20	
Endosulfan sulfate	B	28458	20044	21405	16554	17477	14579	15238	AVRG	R		5.233E-5		pg	19108	25	0.995	20	rsd ***
Endrin ketone	B	25928	19667	21699	17013	18237	15470	16002	AVRG	R		5.223E-5		pg	19145	19	0.995	20	
TCMX	B	30081	23460	25609	22090	22444	20758	19302	AVRG	R		4.275E-5		pg	23392	15	0.995	20	
Decachlorobiphenyl	B		18148	19820	16062	14693	13152	12778	AVRG	R		6.339E-5		pg	15776	18	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	15		20	
EPA 8081A	B	22	16		20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	232_014	804335061014	level_1	19-AUG-2004 22:41	04WS1513
2	232_015	804335061015	level_2	19-AUG-2004 23:10	04WS1512
3	232_016	804335061016	level_3	19-AUG-2004 23:40	04WS0927
4	232_017	804335061017	level_4	20-AUG-2004 00:09	04WS1434
5	232_018	804335061018	level_5	20-AUG-2004 00:38	04WS1509
6	232_019	804335061019	level_6	20-AUG-2004 01:08	04WS1508
7	232_020	804335061020	level_7	20-AUG-2004 01:37	04WS1507

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	21785	16650	18574	16306	15606	16405	16786	AVRG	R		5.732E-5		pg	17444	12	0.995	20	
gamma-BHC	A	20021	15125	16914	14674	13955	14361	15023	AVRG	R		6.359E-5		pg	15725	13	0.995	20	
beta-BHC	A	9482.5	6836.9	7419.4	6279.6	5889.2	5684.9	5762.7	AVRG	R		1.478E-4		pg	6765.0	20	0.995	20	
delta-BHC	A	23631	16068	17265	14919	13978	14341	14987	AVRG	R		6.077E-5		pg	16456	20	0.995	20	
Heptachlor	A	17428	13383	15081	13257	12502	12881	13538	AVRG	R		7.138E-5		pg	14010	12	0.995	20	
Aldrin	A	18258	13951	15262	13406	12739	12957	13491	AVRG	R		6.995E-5		pg	14295	14	0.995	20	
Heptachlor epoxide	A	17194	12996	14081	12346	11669	11632	11996	AVRG	R		7.616E-5		pg	13130	15	0.995	20	
gamma-Chlordane	A	18008	13185	14052	12436	11779	11886	12418	AVRG	R		7.466E-5		pg	13395	16	0.995	20	
alpha-Chlordane	A	16632	12561	13573	11903	11256	11277	11806	AVRG	R		7.865E-5		pg	12715	15	0.995	20	
4,4'-DDE	A	15271	11686	12856	11842	11232	11691	10815	AVRG	R		8.198E-5		pg	12199	12	0.995	20	
Endosulfan I	A	15959	12033	13113	11327	10635	10549	10968	AVRG	R		8.276E-5		pg	12083	16	0.995	20	
Dieldrin	A	16279	12416	13592	12305	11775	12000	11065	AVRG	R		7.827E-5		pg	12776	13	0.995	20	
Endrin	A	13575	10207	11619	9984.8	9386.3	9801.5	9312.6	AVRG	R		9.474E-5		pg	10555	15	0.995	20	
4,4'-DDD	A	12433	9338.1	10254	9361.4	8772.3	9253.9	8822.5	AVRG	R		1.026E-4		pg	9747.9	13	0.995	20	
Endosulfan II	A	14959	10910	11650	10404	9807.4	10081	9444.4	AVRG	R		9.061E-5		pg	11037	17	0.995	20	
4,4'-DDT	A	12781	9342.6	10458	9580.1	8903.0	9463.3	9095.0	AVRG	R		1.005E-4		pg	9946.1	14	0.995	20	
Endrin aldehyde	A	15806	9637.4	9084.3	8061.2	7605.3	7620.6	7520.2	AVRG	R		1.071E-4		pg	9333.6	32	0.995	20	rsd ***
Methoxychlor	A	5315.4	4028.8	4627.5	4350.2	3960.9	3596.0	2956.7	AVRG	R		2.428E-4		pg	4119.4	18	0.995	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	14853	9984.0	10329	9021.7	8332.8	8679.4	8595.9	AVRG	R		1.003E-4		pg	9970.7	23	0.995	20	rsd ***
Endrin ketone	A	15806	11246	11993	10822	10103	10258	9419.6	AVRG	R		8.789E-5		pg	11378	19	0.995	20	
TCMX	A	14324	10908	12100	10650	9926.3	10344	10186	AVRG	R		8.924E-5		pg	11206	14	0.995	20	
Decachlorobiphenyl	A	8570.5	6368.6	7915.2	7254.3	5798.8	5816.4	6301.1	AVRG	R		1.458E-4		pg	6860.7	16	0.995	20	
alpha-BHC	B	22588	15820	20445	18627	16802	17270	18773	AVRG	R		5.371E-5		pg	18618	12	0.995	20	
gamma-BHC	B	20986	14609	18610	16859	14979	15133	16798	AVRG	R		5.934E-5		pg	16853	14	0.995	20	
beta-BHC	B	10283	6859.4	8474.5	7426.7	6498.9	6182.9	7047.9	AVRG	R		1.326E-4		pg	7539.0	19	0.995	20	
delta-BHC	B	24673	15697	19119	17288	14969	15316	16704	AVRG	R		5.656E-5		pg	17681	19	0.995	20	
Heptachlor	B	12854	9300.3	12493	11976	10463	10771	13153	AVRG	R		8.641E-5		pg	11573	12	0.995	20	
Aldrin	B	19672	13740	17116	15600	13879	13771	15255	AVRG	R		6.420E-5		pg	15576	14	0.995	20	
Heptachlor epoxide	B	18541	12924	15789	14365	12625	12276	13605	AVRG	R		6.991E-5		pg	14304	15	0.995	20	
gamma-Chlordane	B	18678	13022	15898	14667	12779	12685	14132	AVRG	R		6.872E-5		pg	14552	15	0.995	20	
alpha-Chlordane	B	18198	12714	15277	14056	12177	11939	13398	AVRG	R		7.160E-5		pg	13966	16	0.995	20	
4,4'-DDE	B	16804	11774	14585	14146	12207	12034	11874	AVRG	R		7.493E-5		pg	13346	14	0.995	20	
Endosulfan I	B	17124	11985	14436	13279	11477	11219	12542	AVRG	R		7.604E-5		pg	13152	16	0.995	20	
Dieldrin	B	17837	12369	15313	14518	12550	12253	11990	AVRG	R		7.229E-5		pg	13833	16	0.995	20	
Endrin	B	13137	9164.3	11997	10776	9000.4	9271.3	9444.5	AVRG	R		9.617E-5		pg	10399	16	0.995	20	
4,4'-DDD	B	13546	9500.7	11551	11161	9215.5	9520.3	9541.1	AVRG	R		9.455E-5		pg	10577	15	0.995	20	
Endosulfan II	B	16186	10854	12991	12312	10228	10420	10247	AVRG	R		8.410E-5		pg	11891	18	0.995	20	
4,4'-DDT	B	11716	8301.3	10461	10345	8412.4	8872.1	9169.9	AVRG	R		1.040E-4		pg	9610.9	13	0.995	20	
Endrin aldehyde	B	16239	9420.0	10134	9446.9	7767.0	7892.7	8178.6	AVRG	R		1.013E-4		pg	9868.4	30	0.995	20	rsd ***
Methoxychlor	B	5014.2	3527.3	4494.2	4646.7	3586.1	3334.3	2882.9	AVRG	R		2.547E-4		pg	3926.5	20	0.995	20	
Endosulfan sulfate	B	16271	10225	11667	11124	8909.4	9335.7	9672.1	AVRG	R		9.067E-5		pg	11029	23	0.995	20	rsd ***
Endrin ketone	B	16522	10734	12585	12224	9697.8	9871.6	9438.4	AVRG	R		8.634E-5		pg	11582	22	0.995	20	rsd ***
TCMX	B	15393	10725	13397	12177	10791	10867	11356	AVRG	R		8.264E-5		pg	12101	14	0.995	20	
Decachlorobiphenyl	B		6237.9	7953.2	7933.0	5312.6	5382.6	5756.4	AVRG	R		1.555E-4		pg	6429.3	19	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	16		20	
EPA 8081A	B	22	17		20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234333910038 Run Name: Injected: 19-AUG-2004 14:23
Filename: 231_038 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	609007.5
4,4'-DDE	A	5498.15
4,4'-DDD	A	59838.14

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	446926.66
Endrin aldehyde	A	5326.48
Endrin ketone	A	24692.48

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1049803.99
4,4'-DDE	B	13399.85
4,4'-DDD	B	123380.02

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	950245.61
Endrin aldehyde	B	9920.38
Endrin ketone	B	67786.16

Endrin Breakdown %: 8
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234333910054 Run Name: Injected: 19-AUG-2004 23:19
Filename: 231_054 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	625412.78
4,4'-DDE	A	5156.39
4,4'-DDD	A	63096.58

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	461619.19
Endrin aldehyde	A	3307.71
Endrin ketone	A	16083.03

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1060173.23
4,4'-DDE	B	12295.61
4,4'-DDD	B	122859.35

4,4'-DDT Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	933605.04
Endrin aldehyde	B	10216.97
Endrin ketone	B	43652.02

Endrin Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804335061022 Run Name: Injected: 20-AUG-2004 02:36
Filename: 232_022 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	996214.26
4,4'-DDE	A	4177.07
4,4'-DDD	A	7246.14

4,4'-DDT Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	498310.08
Endrin aldehyde	A	23433.64
Endrin ketone	A	18865.57

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1139847.41
4,4'-DDE	B	5392.08
4,4'-DDD	B	3370

4,4'-DDT Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	585318.5
Endrin aldehyde	B	17978.4
Endrin ketone	B	10647.74

Endrin Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804335061037 Run Name: Injected: 20-AUG-2004 15:43
Filename: 232_037 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	937300.87
4,4'-DDE	A	3250.5
4,4'-DDD	A	40449.11

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	535588.89
Endrin aldehyde	A	7583.49
Endrin ketone	A	12017.45

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	997271.03
4,4'-DDE	B	3535
4,4'-DDD	B	21004.31

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	559557.45
Endrin aldehyde	B	4249
Endrin ketone	B	5536.21

Endrin Breakdown %: 2
Breakdown Limit %: 15

SECOND SOURCE CALIBRATION VERIFICATION FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : icv
Seqnum : 804335061023 Filename : 232_023 Injected : 20-AUG-2004 03:05
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1240

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	25.41403	pg	2	15	
gamma-BHC	A	25.00000	25.57481	pg	2	15	
beta-BHC	A	25.00000	24.94407	pg	0	15	
delta-BHC	A	25.00000	25.09650	pg	0	15	
Heptachlor	A	25.00000	26.14591	pg	5	15	
Aldrin	A	25.00000	25.87808	pg	4	15	
Heptachlor epoxide	A	25.00000	25.06501	pg	0	15	
gamma-Chlordane	A	25.00000	24.50592	pg	-2	15	
alpha-Chlordane	A	25.00000	25.35041	pg	1	15	
4,4'-DDE	A	25.00000	26.20180	pg	5	15	
Endosulfan I	A	25.00000	25.44399	pg	2	15	
Dieldrin	A	25.00000	26.14962	pg	5	15	
Endrin	A	25.00000	25.99776	pg	4	15	
4,4'-DDD	A	25.00000	25.95091	pg	4	15	
Endosulfan II	A	25.00000	25.95358	pg	4	15	
4,4'-DDT	A	25.00000	27.19847	pg	9	15	
Endrin aldehyde	A	25.00000	23.96465	pg	-4	15	
Methoxychlor	A	25.00000	32.23480	pg	29	15	v+ ***
Endosulfan sulfate	A	25.00000	25.12152	pg	0	15	
Endrin ketone	A	25.00000	25.91763	pg	4	15	
TCMX	A	26.00000	26.72327	pg	3	15	
Decachlorobiphenyl	A	26.00000	25.84430	pg	-1	15	
alpha-BHC	B	25.00000	25.04586	pg	0	15	
gamma-BHC	B	25.00000	24.92051	pg	0	15	
beta-BHC	B	25.00000	24.14289	pg	-3	15	
delta-BHC	B	25.00000	24.32690	pg	-3	15	
Heptachlor	B	25.00000	26.83894	pg	7	15	
Aldrin	B	25.00000	25.21885	pg	1	15	
Heptachlor epoxide	B	25.00000	24.19502	pg	-3	15	
gamma-Chlordane	B	25.00000	23.87894	pg	-4	15	
alpha-Chlordane	B	25.00000	24.35130	pg	-3	15	
4,4'-DDE	B	25.00000	25.22878	pg	1	15	
Endosulfan I	B	25.00000	24.64344	pg	-1	15	
Dieldrin	B	25.00000	25.15859	pg	1	15	
Endrin	B	25.00000	25.12954	pg	1	15	
4,4'-DDD	B	25.00000	24.47497	pg	-2	15	
Endosulfan II	B	25.00000	24.65114	pg	-1	15	
4,4'-DDT	B	25.00000	25.37088	pg	1	15	
Endrin aldehyde	B	25.00000	23.58776	pg	-6	15	
Methoxychlor	B	25.00000	28.86940	pg	15	15	
Endosulfan sulfate	B	25.00000	23.44076	pg	-6	15	
Endrin ketone	B	25.00000	24.03293	pg	-4	15	
TCMX	B	26.00000	26.46687	pg	2	15	
Decachlorobiphenyl	B	26.00000	24.73111	pg	-5	15	

+=high bias v=ICV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234333910039
Calnum : 234332698001
Standards: 04WS1434

Run Name : ccv
Filename : 231_039
Caldate : 18-AUG-2004

IDF : 1.0
Injected : 19-AUG-2004 14:53
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12448	12463	20.00000	20.02311	pg	0	15	
gamma-BHC	A	11865	11777	20.00000	19.85187	pg	-1	15	
beta-BHC	A	6829.7	6285.0	20.00000	18.40504	pg	-8	15	
delta-BHC	A	12248	11141	20.00000	18.19144	pg	-9	15	
Heptachlor	A	11134	10664	20.00000	19.15559	pg	-4	15	
Aldrin	A	11158	10939	20.00000	19.60772	pg	-2	15	
Heptachlor epoxide	A	11746	11405	20.00000	19.41870	pg	-3	15	
gamma-Chlordane	A	11746	11387	20.00000	19.38864	pg	-3	15	
alpha-Chlordane	A	11514	11093	20.00000	19.26930	pg	-4	15	
4,4'-DDE	A	11199	11060	40.00000	39.50267	pg	-1	15	
Endosulfan I	A	11555	11130	20.00000	19.26529	pg	-4	15	
Dieldrin	A	10810	10744	40.00000	39.75576	pg	-1	15	
Endrin	A	9337.9	9198.4	40.00000	39.40271	pg	-1	15	
4,4'-DDD	A	8357.9	8485.2	40.00000	40.60911	pg	2	15	
Endosulfan II	A	10568	10100	40.00000	38.23071	pg	-4	15	
4,4'-DDT	A	6386.0	5857.7	40.00000	36.69109	pg	-8	15	
Endrin aldehyde	A	9063.0	8038.9	40.00000	35.48008	pg	-11	15	rsd ***
Methoxychlor	A	3073.6	2763.6	200.0000	179.8293	pg	-10	15	
Endosulfan sulfate	A	10918	9342.7	40.00000	34.22953	pg	-14	15	
Endrin ketone	A	10887	10328	40.00000	37.94697	pg	-5	15	
TCMX	A	10613	10141	40.00000	38.22169	pg	-4	15	
Decachlorobiphenyl	A	10518	10245	40.00000	38.96134	pg	-3	15	
alpha-BHC	B	30745	31797	20.00000	20.68410	pg	3	15	
gamma-BHC	B	27916	28665	20.00000	20.53686	pg	3	15	
beta-BHC	B	15332	14430	20.00000	18.82388	pg	-6	15	rsd ***
delta-BHC	B	29831	27328	20.00000	18.32168	pg	-8	15	rsd ***
Heptachlor	B	18594	19715	20.00000	21.20543	pg	6	15	
Aldrin	B	26261	26866	20.00000	20.46097	pg	2	15	
Heptachlor epoxide	B	23506	24129	20.00000	20.53042	pg	3	15	
gamma-Chlordane	B	26518	26883	20.00000	20.27550	pg	1	15	
alpha-Chlordane	B	26490	26460	20.00000	19.97720	pg	0	15	
4,4'-DDE	B	22455	24088	40.00000	42.90851	pg	7	15	
Endosulfan I	B	23463	23910	20.00000	20.38115	pg	2	15	
Dieldrin	B	22264	23599	40.00000	42.39874	pg	6	15	
Endrin	B	17669	19076	40.00000	43.18663	pg	8	15	
4,4'-DDD	B	14021	15835	40.00000	45.17542	pg	13	15	
Endosulfan II	B	22746	21230	40.00000	37.33383	pg	-7	15	
4,4'-DDT	B	9765.7	9922.1	40.00000	40.64088	pg	2	15	
Endrin aldehyde	B	17007	15750	40.00000	37.04217	pg	-7	15	rsd ***
Methoxychlor	B	4123.7	4184.8	200.0000	202.9678	pg	1	15	
Endosulfan sulfate	B	19108	18540	40.00000	38.81213	pg	-3	15	rsd ***
Endrin ketone	B	19145	19716	40.00000	41.19257	pg	3	15	
TCMX	B	23392	22587	40.00000	38.62266	pg	-3	15	
Decachlorobiphenyl	B	15776	16769	40.00000	42.51956	pg	6	15	
Average EPA 8081A	A		(count=22)				5	15	
Average EPA 8081A	B		(count=22)				5	15	

rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_5 IDF : 1.0
Seqnum : 234333910057 Filename : 231_057 Injected : 20-AUG-2004 00:50
Calnum : 234332698001 Caldate : 18-AUG-2004 Caltype :
Standards: 04WS1375

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12448	12034	25.00000	24.16729	pg	-3	15	
gamma-BHC	A	11865	11207	25.00000	23.61245	pg	-6	15	
beta-BHC	A	6829.7	5776.2	25.00000	21.14366	pg	-15	15	
delta-BHC	A	12248	10673	25.00000	21.78484	pg	-13	15	
Heptachlor	A	11134	9688.5	25.00000	21.75493	pg	-13	15	
Aldrin	A	11158	10269	25.00000	23.00773	pg	-8	15	
Heptachlor epoxide	A	11746	10507	25.00000	22.36196	pg	-11	15	
gamma-Chlordane	A	11746	10473	25.00000	22.29028	pg	-11	15	
alpha-Chlordane	A	11514	10400	25.00000	22.58283	pg	-10	15	
4,4'-DDE	A	11199	10066	50.00000	44.94076	pg	-10	15	
Endosulfan I	A	11555	10332	25.00000	22.35389	pg	-11	15	
Dieldrin	A	10810	9970.9	50.00000	46.12069	pg	-8	15	
Endrin	A	9337.9	8403.3	50.00000	44.99583	pg	-10	15	
4,4'-DDD	A	8357.9	8287.9	50.00000	49.58128	pg	-1	15	
Endosulfan II	A	10568	9174.3	50.00000	43.40682	pg	-13	15	
4,4'-DDT	A	6386.0	4684.4	50.00000	36.67734	pg	-27	15	c- ***
Endrin aldehyde	A	9063.0	7594.1	50.00000	41.89615	pg	-16	15	c- rsd ***
Methoxychlor	A	3073.6	2358.0	250.0000	191.7939	pg	-23	15	c- ***
Endosulfan sulfate	A	10918	8462.1	50.00000	38.75395	pg	-22	15	c- ***
Endrin ketone	A	10887	9411.0	50.00000	43.22191	pg	-14	15	
TCMX	A	10613	9394.2	50.00000	44.26000	pg	-11	15	
Decachlorobiphenyl	A	10518	8271.6	50.00000	39.32119	pg	-21	15	c-
alpha-BHC	B	30745	30294	25.00000	24.63289	pg	-1	15	
gamma-BHC	B	27916	26726	25.00000	23.93461	pg	-4	15	
beta-BHC	B	15332	13164	25.00000	21.46545	pg	-14	15	rsd ***
delta-BHC	B	29831	25513	25.00000	21.38170	pg	-14	15	rsd ***
Heptachlor	B	18594	16874	25.00000	22.68653	pg	-9	15	
Aldrin	B	26261	25110	25.00000	23.90476	pg	-4	15	
Heptachlor epoxide	B	23506	21628	25.00000	23.00316	pg	-8	15	
gamma-Chlordane	B	26518	24825	25.00000	23.40444	pg	-6	15	
alpha-Chlordane	B	26490	24344	25.00000	22.97452	pg	-8	15	
4,4'-DDE	B	22455	22250	50.00000	49.54299	pg	-1	15	
Endosulfan I	B	23463	21806	25.00000	23.23477	pg	-7	15	
Dieldrin	B	22264	21311	50.00000	47.86034	pg	-4	15	
Endrin	B	17669	16669	50.00000	47.17171	pg	-6	15	
4,4'-DDD	B	14021	14820	50.00000	52.84928	pg	6	15	
Endosulfan II	B	22746	18967	50.00000	41.69319	pg	-17	15	c- ***
4,4'-DDT	B	9765.7	7803.1	50.00000	39.95153	pg	-20	15	c- ***
Endrin aldehyde	B	17007	14901	50.00000	43.80781	pg	-12	15	rsd ***
Methoxychlor	B	4123.7	3400.9	250.0000	206.1849	pg	-18	15	c- ***
Endosulfan sulfate	B	19108	16708	50.00000	43.72130	pg	-13	15	rsd ***
Endrin ketone	B	19145	17287	50.00000	45.14638	pg	-10	15	
TCMX	B	23392	20901	50.00000	44.67484	pg	-11	15	
Decachlorobiphenyl	B	15776	13577	50.00000	43.03212	pg	-14	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				9	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804335061038 Filename : 232_038 Injected : 20-AUG-2004 16:12
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS0926

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	15671	20.00000	17.96659	pg	-10	15	
gamma-BHC	A	15725	13975	20.00000	17.77412	pg	-11	15	
beta-BHC	A	6765.0	5831.9	20.00000	17.24137	pg	-14	15	
delta-BHC	A	16456	13533	20.00000	16.44772	pg	-18	15	c- ***
Heptachlor	A	14010	12380	20.00000	17.67313	pg	-12	15	
Aldrin	A	14295	12486	20.00000	17.46845	pg	-13	15	
Heptachlor epoxide	A	13130	11341	20.00000	17.27455	pg	-14	15	
gamma-Chlordane	A	13395	11322	20.00000	16.90579	pg	-15	15	
alpha-Chlordane	A	12715	10857	20.00000	17.07710	pg	-15	15	
4,4'-DDE	A	12199	10761	40.00000	35.28448	pg	-12	15	
Endosulfan I	A	12083	10334	20.00000	17.10469	pg	-14	15	
Dieldrin	A	12776	11267	40.00000	35.27530	pg	-12	15	
Endrin	A	10555	9309.7	40.00000	35.28007	pg	-12	15	
4,4'-DDD	A	9747.9	8768.3	40.00000	35.98028	pg	-10	15	
Endosulfan II	A	11037	9376.5	40.00000	33.98365	pg	-15	15	
4,4'-DDT	A	9946.1	8094.9	40.00000	32.55498	pg	-19	15	c- ***
Endrin aldehyde	A	9333.6	7086.7	40.00000	30.37053	pg	-24	15	c- rsd ***
Methoxychlor	A	4119.4	3744.5	200.0000	181.7992	pg	-9	15	
Endosulfan sulfate	A	9970.7	8064.7	40.00000	32.35331	pg	-19	15	c- rsd ***
Endrin ketone	A	11378	9639.9	40.00000	33.88885	pg	-15	15	
TCMX	A	11206	10309	40.00000	36.80050	pg	-8	15	
Decachlorobiphenyl	A	6860.7	6338.1	40.00000	36.95297	pg	-8	15	
alpha-BHC	B	18618	19246	20.00000	20.67432	pg	3	15	
gamma-BHC	B	16853	17393	20.00000	20.64079	pg	3	15	
beta-BHC	B	7539.0	7594.1	20.00000	20.14597	pg	1	15	
delta-BHC	B	17681	17489	20.00000	19.78278	pg	-1	15	
Heptachlor	B	11573	12700	20.00000	21.94773	pg	10	15	
Aldrin	B	15576	16091	20.00000	20.66126	pg	3	15	
Heptachlor epoxide	B	14304	14749	20.00000	20.62245	pg	3	15	
gamma-Chlordane	B	14552	15008	20.00000	20.62741	pg	3	15	
alpha-Chlordane	B	13966	14341	20.00000	20.53730	pg	3	15	
4,4'-DDE	B	13346	14365	40.00000	43.05215	pg	8	15	
Endosulfan I	B	13152	13532	20.00000	20.57751	pg	3	15	
Dieldrin	B	13833	14841	40.00000	42.91488	pg	7	15	
Endrin	B	10399	11371	40.00000	43.73961	pg	9	15	
4,4'-DDD	B	10577	11281	40.00000	42.66322	pg	7	15	
Endosulfan II	B	11891	12329	40.00000	41.47253	pg	4	15	
4,4'-DDT	B	9610.9	10317	40.00000	42.93891	pg	7	15	
Endrin aldehyde	B	9868.4	9414.8	40.00000	38.16138	pg	-5	15	rsd ***
Methoxychlor	B	3926.5	4607.5	200.0000	234.6853	pg	17	15	c+ ***
Endosulfan sulfate	B	11029	10809	40.00000	39.20247	pg	-2	15	rsd ***
Endrin ketone	B	11582	11896	40.00000	41.08483	pg	3	15	rsd ***
TCMX	B	12101	12569	40.00000	41.54820	pg	4	15	
Decachlorobiphenyl	B	6429.3	7277.7	40.00000	45.27833	pg	13	15	
Average EPA 8081A	A		(count=22)				14	15	
Average EPA 8081A	B		(count=22)				5	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234332698 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
014	230_014	X	hex			18-AUG-2004 00:28	1.0							
015	230_015	PEM				18-AUG-2004 00:58	1.0			1			1	
017	230_017	ICAL	level_1			18-AUG-2004 01:59	1.0						2	
018	230_018	ICAL	level_2			18-AUG-2004 02:29	1.0						3	
019	230_019	ICAL	level_3			18-AUG-2004 03:00	1.0						4	
020	230_020	ICAL	level_4			18-AUG-2004 03:31	1.0						5	
021	230_021	ICAL	level_5			18-AUG-2004 04:01	1.0						6	
022	230_022	ICAL	level_6			18-AUG-2004 04:32	1.0						7	
023	230_023	ICAL	level_7			18-AUG-2004 05:03	1.0						8	
026	230_026	ICV	icv			18-AUG-2004 06:34	1.0			1			9	
027	230_027	X				18-AUG-2004 07:05	1.0						9	

27

Stds used: 1=04WS0930 2=04WS1513 3=04WS1512 4=04WS1511 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS1240

SEQUENCE SUMMARY FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234333910 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
005	231_005	PEM				18-AUG-2004 20:40	1.0	1.0			1	1	
006	231_006	CCV	ccv			18-AUG-2004 21:10	1.0	1.0	6		1	2	
007	231_007	X	pest_4			18-AUG-2004 21:41	1.0					2	
010	231_010	BLANK	QC261489	93820	Soil	18-AUG-2004 23:13	1.0	0.6752			1		
011	231_011	LCS	QC261490	93820	Soil	18-AUG-2004 23:43	1.0	0.6734	6		1		
012	231_012	MS	QC261491	93820	Soil	19-AUG-2004 00:14	1.0	0.6725	6	1	1		
013	231_013	MSD	QC261492	93820	Soil	19-AUG-2004 00:44	1.0	0.672	6	1	1		
014	231_014	SAMPLE	174034-001	93820	Soil	19-AUG-2004 01:15	5.0	0.6757			1		
015	231_015	SAMPLE	174034-002	93820	Soil	19-AUG-2004 01:45	5.0	0.6761			1		
016	231_016	SAMPLE	174045-001	93820	Soil	19-AUG-2004 02:16	1.0	0.672			1		
017	231_017	SAMPLE	174031-001	93820	Soil	19-AUG-2004 02:47	1.0	0.6684			1		
018	231_018	SAMPLE	174031-002	93820	Soil	19-AUG-2004 03:17	1.0	0.6748			1		
019	231_019	SAMPLE	174031-003	93820	Soil	19-AUG-2004 03:48	1.0						
021	231_021	PEM				19-AUG-2004 04:49	1.0	1.0			1	3	
022	231_022	X	ccv			19-AUG-2004 05:19	1.0					4	
023	231_023	CCV	ccv			19-AUG-2004 05:50	1.0	1.0	5		1	5	
024	231_024	X	pest_5			19-AUG-2004 06:20	1.0					5	
027	231_027	SAMPLE	174031-004	93820	Soil	19-AUG-2004 07:52	1.0	0.664			1		
028	231_028	SAMPLE	174031-005	93820	Soil	19-AUG-2004 08:22	1.0	0.6662			1		
029	231_029	SAMPLE	174031-006	93820	Soil	19-AUG-2004 08:53	1.0	0.6562	3		1		3:DIELDR=444.781
030	231_030	MSS	174031-007	93820	Soil	19-AUG-2004 09:23	1.0	0.6766			1		1:ENDOSU=203.225
031	231_031	SAMPLE	174031-008	93820	Soil	19-AUG-2004 09:54	1.0	0.6614			1		
032	231_032	SAMPLE	173959-012	93777	Soil	19-AUG-2004 10:24	5.0	0.6739			1		
033	231_033	SAMPLE	173929-011	93758	Soil	19-AUG-2004 10:55	3.0	0.6734	1		1		1:DDE44=252.772
034	231_034	SAMPLE	173929-013	93758	Soil	19-AUG-2004 11:25	3.0	0.6601			1		
035	231_035	SAMPLE	173929-014	93758	Soil	19-AUG-2004 11:56	3.0	0.664	4		1		4:DDE44=317.933
036	231_036	SAMPLE	174014-001	93777	Soil	19-AUG-2004 13:22	10.0	0.668			1		
037	231_037	X	hex			19-AUG-2004 13:52	1.0						
038	231_038	PEM				19-AUG-2004 14:23	1.0	1.0			1	1	
039	231_039	CCV	ccv			19-AUG-2004 14:53	1.0	1.0	5		1	2	

Stds used: 1=04WS0930 2=04WS1434 3=04WS1389 4=04WS1385 5=04WS1375
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234333910 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
040	231_040	X	pest_4			19-AUG-2004 15:24	1.0					2	
043	231_043	BLANK	QC261642	93856	Soil	19-AUG-2004 17:44	1.0	0.6698	7		1		
044	231_044	LCS	QC261643	93856	Soil	19-AUG-2004 18:15	1.0	0.6658	11		1		
045	231_045	MS	QC261644	93856	Soil	19-AUG-2004 18:45	2.0	0.6618	11		1		
046	231_046	MSD	QC261645	93856	Soil	19-AUG-2004 19:16	2.0	0.6684	11		1		
047	231_047	SAMPLE	174046-001	93856	Soil	19-AUG-2004 19:47	10.0	0.6662	7		1		
048	231_048	SAMPLE	174046-002	93856	Soil	19-AUG-2004 20:17	5.0	0.6725	7		1		
049	231_049	SAMPLE	174046-003	93856	Soil	19-AUG-2004 20:47	10.0	0.6575	7		1		
050	231_050	SAMPLE	174046-004	93856	Soil	19-AUG-2004 21:18	10.0	0.6689	7		1		
051	231_051	MSS	174056-010	93856	Soil	19-AUG-2004 21:48	2.0	0.6684	7		1		
052	231_052	SAMPLE	174073-001	93856	Soil	19-AUG-2004 22:19	1.0	0.6684	6		1		
054	231_054	PEM				19-AUG-2004 23:19	1.0	1.0			1	3	
055	231_055	X	ccv			19-AUG-2004 23:49	1.0					4	
056	231_056	X	ccv			20-AUG-2004 00:20	1.0					5	
057	231_057	CCV	pest_5			20-AUG-2004 00:50	1.0	1.0	11		1	5	
058	231_058	PEM				20-AUG-2004 01:20	1.0					3	
065	231_065	SAMPLE	173927-001	93777	Soil	20-AUG-2004 04:54	1.0	0.6562	9		1	>ac	
066	231_066	SAMPLE	173927-002	93777	Soil	20-AUG-2004 05:25	1.0	0.668	10		1	>ac	
071	231_071	PEM				20-AUG-2004 07:59	1.0	1.0			1	1	
072	231_072	CCV	ccv			20-AUG-2004 08:29	1.0	1.0	16		1	2 ac	
074	231_074	X				20-AUG-2004 09:30	1.0	1.0			1	1	

Stds used: 1=04WS0930 2=04WS1434 3=04WS1389 4=04WS1385 5=04WS1375
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	232_001	X	hex			19-AUG-2004 15:22	1.0						
003	232_003	X	pest_4			19-AUG-2004 16:21	1.0					1	
004	232_004	X	ccv			19-AUG-2004 16:50	1.0					1	
011	232_011	X	hex			19-AUG-2004 21:13	1.0						
013	232_013	X	hex			19-AUG-2004 22:12	1.0						
014	232_014	ICAL	level_1			19-AUG-2004 22:41	1.0	1.0				2	
015	232_015	ICAL	level_2			19-AUG-2004 23:10	1.0	1.0				3	
016	232_016	ICAL	level_3			19-AUG-2004 23:40	1.0	1.0				4	
017	232_017	ICAL	level_4			20-AUG-2004 00:09	1.0	1.0				5	
018	232_018	ICAL	level_5			20-AUG-2004 00:38	1.0	1.0				6	
019	232_019	ICAL	level_6			20-AUG-2004 01:08	1.0	1.0				7	
020	232_020	ICAL	level_7			20-AUG-2004 01:37	1.0	1.0				8	
022	232_022	PEM				20-AUG-2004 02:36	1.0	1.0			1	9	
023	232_023	ICV	icv			20-AUG-2004 03:05	1.0	1.0	1		1	10	
024	232_024	X				20-AUG-2004 03:34	1.0					10	
026	232_026	BLANK	QC261824	93904	Soil	20-AUG-2004 04:33	1.0	0.657	4		1		
027	232_027	LCS	QC261825	93904	Soil	20-AUG-2004 05:02	1.0	0.6743	8		1		
028	232_028	MSS	173867-002	93904	Soil	20-AUG-2004 05:32	5.0	0.6583	4		1		
029	232_029	MS	QC261826	93904	Soil	20-AUG-2004 06:01	5.0	0.6745	7	8	1		
030	232_030	MSD	QC261827	93904	Soil	20-AUG-2004 06:31	5.0	0.6566	7	9	1		
031	232_031	SAMPLE	174092-003	93904	Soil	20-AUG-2004 07:00	20.0	0.668	4		1		
032	232_032	SAMPLE	174073-002	93856	Soil	20-AUG-2004 13:09	1.0	0.6752	3		1		
033	232_033	SAMPLE	174073-003	93856	Soil	20-AUG-2004 13:38	1.0	0.6579	3		1		
034	232_034	SAMPLE	174073-004	93856	Soil	20-AUG-2004 14:15	1.0	0.6748	3		1		
035	232_035	SAMPLE	174073-005	93856	Soil	20-AUG-2004 14:44	1.0	0.6592	3		1		
037	232_037	PEM				20-AUG-2004 15:43	1.0	1.0			1	9	
038	232_038	CCV	pest_4			20-AUG-2004 16:12	1.0	1.0	8		1	1	
041	232_041	BLANK	QC261674	93866	Water	20-AUG-2004 19:41	1.0	0.01	4		1		
042	232_042	BS	QC261675	93866	Water	20-AUG-2004 20:10	1.0	0.01	19		1		2:ENDRIN=279.423
043	232_043	BSD	QC261676	93866	Water	20-AUG-2004 20:39	1.0	0.01	19		1		2:ENDRIN=249.084

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
044	232_044	SAMPLE	173967-009	93866	Water	20-AUG-2004 21:09	1.0	0.009434	3		1	spk	
045	232_045	SAMPLE	173967-010	93866	Water	20-AUG-2004 21:38	1.0	0.009524	3		1	spk	
046	232_046	SAMPLE	173967-011	93866	Water	20-AUG-2004 22:08	1.0	0.009524	3		1	spk	
047	232_047	SAMPLE	173967-012	93866	Water	20-AUG-2004 22:37	1.0	0.009434	3		1	spk	
048	232_048	SAMPLE	173967-013	93866	Water	20-AUG-2004 23:07	1.0	0.009524	3		1	spk	
049	232_049	SAMPLE	173967-014	93866	Water	20-AUG-2004 23:36	1.0	0.009804	3		1	spk	
050	232_050	SAMPLE	173967-015	93866	Water	21-AUG-2004 00:05	1.0	0.009524	3		1	spk	
052	232_052	PEM				21-AUG-2004 01:04	1.0	1.0			1	11	
053	232_053	CCV	ccv			21-AUG-2004 01:34	1.0	1.0	15		1	12	
054	232_054	X	ccv			21-AUG-2004 02:03	1.0					13	
055	232_055	X	ccv			21-AUG-2004 02:33	1.0					13	
058	232_058	BLANK	QC261836	93907	Water	21-AUG-2004 04:01	1.0	0.01	2		1		
059	232_059	LCS	QC261837	93907	Water	21-AUG-2004 04:30	1.0	0.01	16	3	1	spk	2:ENDRIN=301.975
060	232_060	MS	QC261838	93907	Water	21-AUG-2004 05:00	1.0	0.009434	16		1		2:ENDRIN=289.263
061	232_061	MSD	QC261839	93907	Water	21-AUG-2004 05:29	1.0	0.009434	15	3	1		
062	232_062	BLANK	QC261840	93907	Filtra	21-AUG-2004 05:59	1.0	0.01	2		1		
063	232_063	LCS	QC261841	93907	Filtra	21-AUG-2004 06:28	1.0	0.01	16	4	1	spk	2:ENDRIN=222.211
064	232_064	SAMPLE	173990-001	93907	Filtra	21-AUG-2004 06:58	1.0	0.01	2		1	spk	
065	232_065	SAMPLE	173990-001	93907	Water	21-AUG-2004 07:27	1.0	0.01	2		1	spk	
066	232_066	SAMPLE	173990-002	93907	Filtra	21-AUG-2004 07:57	1.0	0.01	2		1	spk	
067	232_067	SAMPLE	173990-002	93907	Water	21-AUG-2004 08:26	1.0	0.01	2		1	spk	
069	232_069	PEM				21-AUG-2004 09:25	1.0	1.0			1	9	
070	232_070	CCV	pest_4			21-AUG-2004 09:54	1.0	1.0	5		1	1	
071	232_071	X	pest_4			21-AUG-2004 10:24	1.0					1	
074	232_074	SAMPLE	173979-001	93907	Water	21-AUG-2004 11:52	1.0	0.009524	1		1	spk	
075	232_075	MSS	173998-001	93907	Water	21-AUG-2004 12:22	1.0	0.009524	2	1	1	spk	
076	232_076	SAMPLE	173998-002	93907	Water	21-AUG-2004 12:51	1.0	0.009524	1	2	1	spk	
077	232_077	SAMPLE	173998-003	93907	Water	21-AUG-2004 13:21	1.0	0.009434	1		1	spk	
078	232_078	SAMPLE	173998-004	93907	Water	21-AUG-2004 13:50	1.0	0.009434	1		1	spk	
079	232_079	SAMPLE	173998-005	93907	Water	21-AUG-2004 14:20	1.0	0.009524	1	2	1	spk	

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174073 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
080	232_080	SAMPLE	173998-007	93907	Water	21-AUG-2004 14:49	1.0	0.009434	1		1	spk	
081	232_081	SAMPLE	174003-002	93907	Water	21-AUG-2004 15:19	1.0	0.01	1	2	1	spk	
082	232_082	SAMPLE	174003-003	93907	Water	21-AUG-2004 15:48	1.0	0.01	1	1	1	spk	
083	232_083	SAMPLE	174003-004	93907	Water	21-AUG-2004 16:18	1.0	0.009615	1		1	spk	
085	232_085	PEM				21-AUG-2004 17:16	1.0	1.0			1	11	
086	232_086	X	ccv			21-AUG-2004 17:46	1.0					12	
087	232_087	CCV	ccv			21-AUG-2004 18:15	1.0	1.0	6		1	13	
088	232_088	X	ccv			21-AUG-2004 18:45	1.0					13	
091	232_091	SAMPLE	174062-002	93907	Water	21-AUG-2004 20:13	1.0	0.009434	2		1		
092	232_092	SAMPLE	174062-003	93907	Water	21-AUG-2004 20:43	1.0	0.009434	2		1		
093	232_093	SAMPLE	174062-004	93907	Water	21-AUG-2004 21:12	1.0	0.009434	2		1		
094	232_094	SAMPLE	173959-024	93777	Soil	21-AUG-2004 21:42	1.0						
095	232_095	SAMPLE	173929-011	93758	Soil	21-AUG-2004 22:11	10.0	0.6734	2		1		
096	232_096	SAMPLE	173929-014	93758	Soil	21-AUG-2004 22:40	10.0	0.664	2		1		
097	232_097	MS	QC261226	93752	Soil	21-AUG-2004 23:10	2.0	0.6633	6		1		
098	232_098	MSD	QC261227	93752	Soil	21-AUG-2004 23:39	2.0	0.6566	6		1		
099	232_099	SAMPLE	174074-001	93856	Soil	22-AUG-2004 00:09	2.0						
100	232_100	SAMPLE	174031-003	93820	Soil	22-AUG-2004 00:38	5.0						
102	232_102	PEM				22-AUG-2004 01:37	1.0	1.0			1	9	
103	232_103	X	pest_4			22-AUG-2004 02:06	1.0					1	
104	232_104	CCV	pest_4			22-AUG-2004 02:36	1.0	1.0	5		1	1	

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375
Flags used: spk=5% spike rule

Reporting Summary for 174073 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174073-001	alpha-BHC	GC16	B	08/19/04 22:19
174073-001	beta-BHC	GC16	B	08/19/04 22:19
174073-001	gamma-BHC	GC16	B	08/19/04 22:19
174073-001	delta-BHC	GC16	B	08/19/04 22:19
174073-001	Heptachlor	GC16	B	08/19/04 22:19
174073-001	Aldrin	GC16	B	08/19/04 22:19
174073-001	Heptachlor epoxide	GC16	B	08/19/04 22:19
174073-001	Endosulfan I	GC16	B	08/19/04 22:19
174073-001	Dieldrin	GC16	B	08/19/04 22:19
174073-001	4,4'-DDE	GC16	B	08/19/04 22:19
174073-001	Endrin	GC16	B	08/19/04 22:19
174073-001	Endosulfan II	GC16	A	08/19/04 22:19
174073-001	Endosulfan sulfate	GC16	B	08/19/04 22:19
174073-001	4,4'-DDD	GC16	B	08/19/04 22:19
174073-001	Endrin ketone	GC16	B	08/19/04 22:19
174073-001	4,4'-DDT	GC16	B	08/19/04 22:19
174073-001	Chlordane (Technical)	GC16	B	08/19/04 22:19
174073-001	alpha-Chlordane	GC16	B	08/19/04 22:19
174073-001	gamma-Chlordane	GC16	B	08/19/04 22:19
174073-001	Methoxychlor	GC16	B	08/19/04 22:19
174073-001	Toxaphene	GC16	B	08/19/04 22:19
174073-001	TCMX	GC16	B	08/19/04 22:19
174073-001	Decachlorobiphenyl	GC16	B	08/19/04 22:19
174073-002	alpha-BHC	GC23	B	08/20/04 13:09
174073-002	beta-BHC	GC23	B	08/20/04 13:09
174073-002	gamma-BHC	GC23	B	08/20/04 13:09
174073-002	delta-BHC	GC23	B	08/20/04 13:09
174073-002	Heptachlor	GC23	B	08/20/04 13:09
174073-002	Aldrin	GC23	B	08/20/04 13:09
174073-002	Heptachlor epoxide	GC23	B	08/20/04 13:09
174073-002	Endosulfan I	GC23	B	08/20/04 13:09
174073-002	Dieldrin	GC23	B	08/20/04 13:09
174073-002	4,4'-DDE	GC23	B	08/20/04 13:09
174073-002	Endrin	GC23	B	08/20/04 13:09
174073-002	Endosulfan II	GC23	B	08/20/04 13:09
174073-002	Endosulfan sulfate	GC23	B	08/20/04 13:09
174073-002	4,4'-DDD	GC23	B	08/20/04 13:09
174073-002	Endrin ketone	GC23	B	08/20/04 13:09
174073-002	4,4'-DDT	GC23	B	08/20/04 13:09
174073-002	Chlordane (Technical)	GC23	B	08/20/04 13:09
174073-002	alpha-Chlordane	GC23	B	08/20/04 13:09
174073-002	gamma-Chlordane	GC23	B	08/20/04 13:09
174073-002	Methoxychlor	GC23	B	08/20/04 13:09
174073-002	Toxaphene	GC23	B	08/20/04 13:09
174073-002	TCMX	GC23	B	08/20/04 13:09
174073-002	Decachlorobiphenyl	GC23	B	08/20/04 13:09
174073-003	alpha-BHC	GC23	B	08/20/04 13:38
174073-003	beta-BHC	GC23	B	08/20/04 13:38
174073-003	gamma-BHC	GC23	B	08/20/04 13:38
174073-003	delta-BHC	GC23	B	08/20/04 13:38
174073-003	Heptachlor	GC23	B	08/20/04 13:38
174073-003	Aldrin	GC23	B	08/20/04 13:38

Reporting Summary for 174073 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174073-003	Heptachlor epoxide	GC23	B	08/20/04 13:38
174073-003	Endosulfan I	GC23	B	08/20/04 13:38
174073-003	Dieldrin	GC23	B	08/20/04 13:38
174073-003	4,4'-DDE	GC23	B	08/20/04 13:38
174073-003	Endrin	GC23	B	08/20/04 13:38
174073-003	Endosulfan II	GC23	B	08/20/04 13:38
174073-003	Endosulfan sulfate	GC23	B	08/20/04 13:38
174073-003	4,4'-DDD	GC23	B	08/20/04 13:38
174073-003	Endrin ketone	GC23	B	08/20/04 13:38
174073-003	4,4'-DDT	GC23	B	08/20/04 13:38
174073-003	Chlordane (Technical)	GC23	B	08/20/04 13:38
174073-003	alpha-Chlordane	GC23	B	08/20/04 13:38
174073-003	gamma-Chlordane	GC23	B	08/20/04 13:38
174073-003	Methoxychlor	GC23	B	08/20/04 13:38
174073-003	Toxaphene	GC23	B	08/20/04 13:38
174073-003	TCMX	GC23	B	08/20/04 13:38
174073-003	Decachlorobiphenyl	GC23	B	08/20/04 13:38
174073-004	alpha-BHC	GC23	B	08/20/04 14:15
174073-004	beta-BHC	GC23	B	08/20/04 14:15
174073-004	gamma-BHC	GC23	B	08/20/04 14:15
174073-004	delta-BHC	GC23	B	08/20/04 14:15
174073-004	Heptachlor	GC23	B	08/20/04 14:15
174073-004	Aldrin	GC23	B	08/20/04 14:15
174073-004	Heptachlor epoxide	GC23	B	08/20/04 14:15
174073-004	Endosulfan I	GC23	B	08/20/04 14:15
174073-004	Dieldrin	GC23	B	08/20/04 14:15
174073-004	4,4'-DDE	GC23	B	08/20/04 14:15
174073-004	Endrin	GC23	B	08/20/04 14:15
174073-004	Endosulfan II	GC23	B	08/20/04 14:15
174073-004	Endosulfan sulfate	GC23	B	08/20/04 14:15
174073-004	4,4'-DDD	GC23	B	08/20/04 14:15
174073-004	Endrin ketone	GC23	B	08/20/04 14:15
174073-004	4,4'-DDT	GC23	B	08/20/04 14:15
174073-004	Chlordane (Technical)	GC23	B	08/20/04 14:15
174073-004	alpha-Chlordane	GC23	B	08/20/04 14:15
174073-004	gamma-Chlordane	GC23	B	08/20/04 14:15
174073-004	Methoxychlor	GC23	B	08/20/04 14:15
174073-004	Toxaphene	GC23	B	08/20/04 14:15
174073-004	TCMX	GC23	B	08/20/04 14:15
174073-004	Decachlorobiphenyl	GC23	B	08/20/04 14:15
174073-005	alpha-BHC	GC23	B	08/20/04 14:44
174073-005	beta-BHC	GC23	B	08/20/04 14:44
174073-005	gamma-BHC	GC23	B	08/20/04 14:44
174073-005	delta-BHC	GC23	B	08/20/04 14:44
174073-005	Heptachlor	GC23	B	08/20/04 14:44
174073-005	Aldrin	GC23	B	08/20/04 14:44
174073-005	Heptachlor epoxide	GC23	B	08/20/04 14:44
174073-005	Endosulfan I	GC23	B	08/20/04 14:44
174073-005	Dieldrin	GC23	B	08/20/04 14:44
174073-005	4,4'-DDE	GC23	B	08/20/04 14:44
174073-005	Endrin	GC23	B	08/20/04 14:44
174073-005	Endosulfan II	GC23	B	08/20/04 14:44

Reporting Summary for 174073 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174073-005	Endosulfan sulfate	GC23	B	08/20/04 14:44
174073-005	4,4'-DDD	GC23	B	08/20/04 14:44
174073-005	Endrin ketone	GC23	B	08/20/04 14:44
174073-005	4,4'-DDT	GC23	B	08/20/04 14:44
174073-005	Chlordane (Technical)	GC23	B	08/20/04 14:44
174073-005	alpha-Chlordane	GC23	B	08/20/04 14:44
174073-005	gamma-Chlordane	GC23	B	08/20/04 14:44
174073-005	Methoxychlor	GC23	B	08/20/04 14:44
174073-005	Toxaphene	GC23	B	08/20/04 14:44
174073-005	TCMX	GC23	B	08/20/04 14:44
174073-005	Decachlorobiphenyl	GC23	B	08/20/04 14:44
QC261642	alpha-BHC	GC16	B	08/19/04 17:44
QC261642	beta-BHC	GC16	B	08/19/04 17:44
QC261642	gamma-BHC	GC16	B	08/19/04 17:44
QC261642	delta-BHC	GC16	B	08/19/04 17:44
QC261642	Heptachlor	GC16	B	08/19/04 17:44
QC261642	Aldrin	GC16	B	08/19/04 17:44
QC261642	Heptachlor epoxide	GC16	B	08/19/04 17:44
QC261642	Endosulfan I	GC16	B	08/19/04 17:44
QC261642	Dieldrin	GC16	B	08/19/04 17:44
QC261642	4,4'-DDE	GC16	B	08/19/04 17:44
QC261642	Endrin	GC16	B	08/19/04 17:44
QC261642	Endosulfan II	GC16	A	08/19/04 17:44
QC261642	Endosulfan sulfate	GC16	B	08/19/04 17:44
QC261642	4,4'-DDD	GC16	B	08/19/04 17:44
QC261642	Endrin ketone	GC16	B	08/19/04 17:44
QC261642	4,4'-DDT	GC16	B	08/19/04 17:44
QC261642	Chlordane (Technical)	GC16	B	08/19/04 17:44
QC261642	alpha-Chlordane	GC16	B	08/19/04 17:44
QC261642	gamma-Chlordane	GC16	B	08/19/04 17:44
QC261642	Methoxychlor	GC16	B	08/19/04 17:44
QC261642	Toxaphene	GC16	B	08/19/04 17:44
QC261642	TCMX	GC16	B	08/19/04 17:44
QC261642	Decachlorobiphenyl	GC16	B	08/19/04 17:44
QC261643	gamma-BHC	GC16	B	08/19/04 18:15
QC261643	Heptachlor	GC16	B	08/19/04 18:15
QC261643	Aldrin	GC16	B	08/19/04 18:15
QC261643	Dieldrin	GC16	B	08/19/04 18:15
QC261643	Endrin	GC16	B	08/19/04 18:15
QC261643	4,4'-DDT	GC16	B	08/19/04 18:15
QC261643	TCMX	GC16	B	08/19/04 18:15
QC261643	Decachlorobiphenyl	GC16	B	08/19/04 18:15
QC261644	gamma-BHC	GC16	B	08/19/04 18:45
QC261644	Heptachlor	GC16	B	08/19/04 18:45
QC261644	Aldrin	GC16	B	08/19/04 18:45
QC261644	Dieldrin	GC16	B	08/19/04 18:45
QC261644	Endrin	GC16	B	08/19/04 18:45
QC261644	4,4'-DDT	GC16	B	08/19/04 18:45
QC261644	TCMX	GC16	B	08/19/04 18:45
QC261644	Decachlorobiphenyl	GC16	B	08/19/04 18:45

Reporting Summary for 174073 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC261645	gamma-BHC	GC16	B	08/19/04 19:16
QC261645	Heptachlor	GC16	B	08/19/04 19:16
QC261645	Aldrin	GC16	B	08/19/04 19:16
QC261645	Dieldrin	GC16	B	08/19/04 19:16
QC261645	Endrin	GC16	B	08/19/04 19:16
QC261645	4,4'-DDT	GC16	B	08/19/04 19:16
QC261645	TCMX	GC16	B	08/19/04 19:16
QC261645	Decachlorobiphenyl	GC16	B	08/19/04 19:16

Curtis & Tompkins Laboratories **Sample Preparation Summary** **19-AUG-2004 08:45**

Batch Number : 93856
Date Extracted: 18-AUG-2004
Extracted by : Sharon L. Karagozlu
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS0840D
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174046-001	10		URS Corporation	Soil	15.01	g	10	0.666223	1	.01	0		8081	3620B	
174046-002	5		URS Corporation	Soil	14.87	g	10	0.672495	1	.01	0		8081	3620B	
174046-003	10		URS Corporation	Soil	15.21	g	10	0.657462	1	.01	0		8081	3620B	
174046-004	10		URS Corporation	Soil	14.95	g	10	0.668896	1	.01	0		8081	3620B	
174056-010	-2		Northgate Environmental Manage	Soil	14.96	g	10	0.668449	1	.01	0		8081	3620B	mss
174073-001			Treadwell & Rollo	Soil	14.96	g	10	0.668449	1	.01	0		8081	3620B	
174073-002			Treadwell & Rollo	Soil	14.81	g	10	0.675219	1	.01	0		8081	3620B	
174073-003			Treadwell & Rollo	Soil	15.2	g	10	0.657895	1	.01	0		8081	3620B	
174073-004			Treadwell & Rollo	Soil	14.82	g	10	0.674764	1	.01	0		8081	3620B	
174073-005			Treadwell & Rollo	Soil	15.17	g	10	0.659196	1	.01	0		8081	3620B	
174074-001			Treadwell & Rollo	Soil	15.13	g	10	0.660939	1	.01	0		8081	3620B	
QC261642	MB			Soil	14.93	g	10	0.669792	1	.01	0		8081	3620B	
QC261643	LCS			Soil	15.02	g	10	0.665779	1	.01	.5		8081	3620B	
QC261644	MS	of 174056-010	-2	Soil	15.11	g	10	0.661813	1	.01	.5		8081	3620B	
QC261645	MSD	of 174056-010	-2	Soil	14.96	g	10	0.668449	1	.01	.5		8081	3620B	

Prep Chemist: [signature] Reviewed By: [signature] Date: 8/19/04

Relinquished By: [signature] 8/19/04 Received By: JM Date: 8/19/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 93856
LIMS Analysis: 8081
Extracted by: SLK
Date Extracted: 8/18/04

Extraction Method:
- ☐ EPA 3550b Sonication
- ☑ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
MB QC261642	14.93	10.0	X	
LCS 3	15.02			
MS 4	15.11			174056-010
MSD 5	14.96			
174046-001	15.01			
-002	14.87			
-003	15.21			
-004	14.95			
174056-010	14.96			MSS
174073-001	14.96			
-002	14.81			
-003	15.20			
-004	14.82			
-005	15.17			
174074-001	15.13		X	

8/19/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	Em 43310410	SLK 8/18/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 04112	
0.01 mL of surrogate solution was added to all samples	04WS1343A	
0.5 mL of spike solution was added to all spikes	04WS0840D	
1:1 CH_2Cl_2 (lot# Em 44199):Acetone(lot# Em 44179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman 028	
Soxhlets on at:	N/A	
Soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	✓	✓
Exchanged 2x with Hexane	JT3453E46	8/19/04
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	✓

8/19/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

8/19/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: [signature]

Cleanup Date: 8/19/04

Benchbook # **BK 1851**

Page 93

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC261642	93356	1.0	1.0	
LCS 3				
MS 4				174056-0010
MSD 5				
174046-001				
-002				
-003				
-004				
174056-010				MSS
174073-001				
-002				
-003				
-004				
-005				
174074-001				

8/19/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	RESPREP 303221-AZ	[initials] 8/19/04
Florisil cartridges/ columns rinsed 3x with Hexane	JTB Y53E46	
Extracts were eluted with _____mL 9:1 Hexane/Acetone — Hexane		
Acetone	EM 440 B5	
Concentrated to volumes as noted above		

[signature] 8/19/04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

[signature] 8/19/04.

Reviewed by / Date

42

PROJECT Soil Aliquot

Notebook No. DK 1979

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
MB	14.93	8081	EM433104110
LCS	15.02		↓
MS	15.11		174056-010
MSD	14.96		↓
174046-001	15.01		Comp-001A, -001B, -001C, -001D
-002	14.87		↓
-003	15.21		MSS, Comp-007A, -008A, -009A
-004	14.95		EM433104110
174056-010	14.96		↓
MB	15.16	PCB	174046-001
LCS	15.07		↓
MS	14.89		MSS, Comp-001A, -001B, -001C, -001D
MSD	14.77		
174046-001	14.81		
-002	15.20		
-003	14.83		
-004	15.01		
174073-001A	14.96	8081	
-002	14.81		
-003	15.20		
-004	14.82		
-005	15.17		
174073-001A	14.95	PCB	
-002	15.16		
-003	15.00		
-004	15.04		
-005	14.82		

CLC 5/15/04

Continued on Page

Read and Understood By

Signed 5/15/04 Date

40

Signed Date

PROJECT Soil Aliquot

Sample ID	Weight (g)	Analyses	Comments
MB	49.79	TEH	0M433104 10
LCS	50.26	↓	↓
MS	49.93		174081-002A
MSD	50.03		↓
174081-001 A	49.89		Rodney
↓ -002 ↓	50.14	↓	MSS
174074-001 A	14.94	PCB	
174074-001	15.13	8081	
174080-005 ↓	15.06	PCB	Comp-001A, ~~002A~~ 003A, ~~004~~

8/18/04

Continued on Page

Read and Understood By

Signed 8/18/04 Date

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14 A	GC14 B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.8
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

42

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/18/04
Units:	ug/Kg	Received:	08/18/04
Diln Fac:	1.000	Prepared:	08/18/04
Batch#:	93858		

Field ID:	BB3EX111[0.5]	Moisture:	3%
Type:	SAMPLE	Analyzed:	08/20/04
Lab ID:	174073-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.9
Aroclor-1221	ND	20
Aroclor-1232	ND	9.9
Aroclor-1242	ND	9.9
Aroclor-1248	ND	9.9
Aroclor-1254	ND	9.9
Aroclor-1260	ND	9.9

Surrogate	%REC	Limits
TCMX	102	65-135
Decachlorobiphenyl	98	65-135

Field ID:	BB3EX112[0.5]	Moisture:	2%
Type:	SAMPLE	Analyzed:	08/20/04
Lab ID:	174073-002	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	ND	9.7
Aroclor-1260	ND	9.7

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	93	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/18/04
Units:	ug/Kg	Received:	08/18/04
Diln Fac:	1.000	Prepared:	08/18/04
Batch#:	93858		

Field ID:	BB3EX113[0.5]	Moisture:	1%
Type:	SAMPLE	Analyzed:	08/20/04
Lab ID:	174073-003	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	ND	9.7
Aroclor-1260	ND	9.7

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	78	65-135

Field ID:	BB3EX114[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	08/20/04
Lab ID:	174073-004	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	91	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/18/04
Units:	ug/Kg	Received:	08/18/04
Diln Fac:	1.000	Prepared:	08/18/04
Batch#:	93858		

Field ID:	BB3EX115[0.5]	Moisture:	5%
Type:	SAMPLE	Analyzed:	08/20/04
Lab ID:	174073-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	36	10
Aroclor-1260	20	10

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	85	65-135

Type:	BLANK	Analyzed:	08/19/04
Lab ID:	QC261649	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	83	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC261650	Batch#:	93858
Matrix:	Soil	Prepared:	08/18/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.9	177.8	107	65-135
Aroclor-1260	165.9	177.0	107	65-141

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	88	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	93858
MSS Lab ID:	174046-001	Sampled:	08/17/04
Matrix:	Soil	Received:	08/17/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	as received	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC261651

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<3.200	167.9	178.4	106	58-145
Aroclor-1260	<3.200	167.9	179.3	107	41-163

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	80	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC261652

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	169.3	155.0	92	58-145	15	27
Aroclor-1260	169.3	157.1	93	41-163	14	41

Surrogate	%REC	Limits
TCMX	68	65-135
Decachlorobiphenyl	57 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204322005001 Name: Type: (normal) Date: 10-AUG-2004 21:30 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	223_012	204322005012	pcb10_2	10-AUG-2004 21:30	04WS0970
2	223_013	204322005013	pcb25_5	10-AUG-2004 22:03	04WS0960
3	223_014	204322005014	pcb100_20	10-AUG-2004 22:36	04WS0961
4	223_015	204322005015	pcb250_50	10-AUG-2004 23:09	04WS0962
5	223_016	204322005016	pcb500_100	10-AUG-2004 23:43	04WS0963
6	223_017	204322005017	pcb750_150	11-AUG-2004 00:16	04WS0964
7	223_018	204322005018	pcb1K_200	11-AUG-2004 00:49	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	241.88	260.86	262.25	252.20	254.11	261.41	254.28	AVRG	R		0.003917		pg	255.28	3	.99	20	
Aroclor-1016 Peak # 2	A	508.90	548.89	529.14	496.33	488.11	492.58	476.48	AVRG	R		0.001977		pg	505.77	5	.99	20	
Aroclor-1016 Peak # 3	A	620.68	628.54	612.26	600.41	594.02	604.30	597.67	AVRG	R		0.001644		pg	608.27	2	.99	20	
Aroclor-1016 Peak # 4	A	352.39	387.39	374.27	369.23	368.14	377.97	370.45	AVRG	R		0.002692		pg	371.41	3	.99	20	
Aroclor-1016 Peak # 5	A	313.16	322.92	318.32	314.17	311.14	314.81	314.12	AVRG	R		0.003169		pg	315.52	1	.99	20	
Aroclor-1260 Peak # 1	A	624.25	625.91	596.28	578.15	552.15	543.66	546.70	AVRG	R		0.001721		pg	581.01	6	.99	20	
Aroclor-1260 Peak # 2	A	1043.9	1095.6	1067.1	970.66	938.81	918.24	930.02	AVRG	R		0.001005		pg	994.91	7	.99	20	
Aroclor-1260 Peak # 3	A	492.39	485.97	560.63	545.96	529.87	525.55	542.27	AVRG	R		0.001901		pg	526.09	5	.99	20	
Aroclor-1260 Peak # 4	A	417.80	419.08	475.46	456.56	463.16	468.93	485.10	AVRG	R		0.002197		pg	455.15	6	.99	20	
Aroclor-1260 Peak # 5	A	1181.2	1105.7	1165.7	1142.3	1119.0	1134.6	1161.7	AVRG	R		8.739E-4		pg	1144.3	2	.99	20	
TCMX	A	10704	11759	10966	10477	10823	11184	10931	AVRG	R		9.109E-5		pg	10978	4	.99	20	
Decachlorobiphenyl	A	11347	11475	11099	9594.2	8979.6	9288.4	8937.4	AVRG	R		9.898E-5		pg	10103	11	.99	20	
Aroclor-1016 Peak # 1	B	320.01	319.57	257.07	258.80	260.57	265.74	261.63	AVRG	R		0.003602		pg	277.63	10	.99	20	
Aroclor-1016 Peak # 2	B	417.12	396.67	352.06	356.08	348.45	352.78	345.11	AVRG	R		0.002726		pg	366.90	8	.99	20	
Aroclor-1016 Peak # 3	B	1307.6	1367.3	1223.0	1196.2	1163.7	1161.5	1138.3	AVRG	R		8.180E-4		pg	1222.5	7	.99	20	
Aroclor-1016 Peak # 4	B	570.82	663.23	494.42	480.86	475.46	472.88	468.62	AVRG	R		0.001930		pg	518.04	14	.99	20	
Aroclor-1016 Peak # 5	B	368.67	346.47	326.03	321.38	345.39	328.34	333.63	AVRG	R		0.002954		pg	338.56	5	.99	20	
Aroclor-1260 Peak # 1	B	666.18	776.08	907.04	931.74	935.54	930.21	948.83	AVRG	R		0.001148		pg	870.80	12	.99	20	
Aroclor-1260 Peak # 2	B	1210.2	1285.2	1292.8	1311.5	1359.3	1339.7	1393.1	AVRG	R		7.616E-4		pg	1313.1	5	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204322005001 Name: Type: (normal) Date: 10-AUG-2004 21:30 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	933.43	862.20	758.59	876.32	908.27	920.51	963.77	AVRG	R		0.001125		pg	889.01	8	.99	20	
Aroclor-1260 Peak # 4	B	801.43	933.67	685.09	695.65	733.52	744.55	777.18	AVRG	R		0.001303		pg	767.30	11	.99	20	
Aroclor-1260 Peak # 5	B	1456.8	1742.6	1702.9	1708.2	1787.9	1820.3	1901.3	AVRG	R		5.776E-4		pg	1731.4	8	.99	20	
TCMX	B	12098	12866	12289	11971	12145	12431	12130	AVRG	R		8.146E-5		pg	12276	2	.99	20	
Decachlorobiphenyl	B	9922.3	10275	10795	9740.5	9697.0	10298	10170	AVRG	R		9.873E-5		pg	10128	4	.99	20	

50

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204322005002 Name: Type: (normal) Date: 11-AUG-2004 18:41 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	223_037	204322005037	ar1254	11-AUG-2004 18:41	04WS0546

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	440.13	AVRG	R		0.002272		pg	440.13	0	.99	20	
Aroclor-1254 Peak # 2	A	816.13	AVRG	R		0.001225		pg	816.13	0	.99	20	
Aroclor-1254 Peak # 3	A	778.75	AVRG	R		0.001284		pg	778.75	0	.99	20	
Aroclor-1254 Peak # 4	A	618.80	AVRG	R		0.001616		pg	618.80	0	.99	20	
Aroclor-1254 Peak # 5	A	784.90	AVRG	R		0.001274		pg	784.90	0	.99	20	
Aroclor-1254 Peak # 1	B	660.25	AVRG	R		0.001515		pg	660.25	0	.99	20	
Aroclor-1254 Peak # 2	B	1061.8	AVRG	R		9.418E-4		pg	1061.8	0	.99	20	
Aroclor-1254 Peak # 3	B	1098.7	AVRG	R		9.102E-4		pg	1098.7	0	.99	20	
Aroclor-1254 Peak # 4	B	649.20	AVRG	R		0.001540		pg	649.20	0	.99	20	
Aroclor-1254 Peak # 5	B	1179.8	AVRG	R		8.476E-4		pg	1179.8	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	250.80	pg	0	15	
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	208.19	pg	-17	15	c- ***
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	488.96	pg	-2	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	414.56	pg	-17	15	c- ***
GC06	A	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004			250.00	245.35	pg	-2	15	
GC06	B	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004			250.00	203.05	pg	-19	15	c- ***

Results reported from Ch. 14

mlk 9/1/04

-=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995005	19-AUG-2004 17:51	204322005002	11-AUG-2004			250.00	257.53	pg	3	15	
GC06	B	204334995005	19-AUG-2004 17:51	204322005002	11-AUG-2004			250.00	233.92	pg	-6	15	
GC06	A	204334995022	20-AUG-2004 03:17	204322005002	11-AUG-2004			250.00	247.68	pg	-1	15	
GC06	B	204334995022	20-AUG-2004 03:17	204322005002	11-AUG-2004			250.00	235.17	pg	-6	15	
GC06	A	204334995041	20-AUG-2004 13:47	204322005002	11-AUG-2004			250.00	274.51	pg	10	15	
GC06	B	204334995041	20-AUG-2004 13:47	204322005002	11-AUG-2004			250.00	245.88	pg	-2	15	

CONTINUING CALIBRATION SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	275.16	pg	10	15	
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	232.85	pg	-7	15	
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	549.11	pg	10	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	487.26	pg	-3	15	
GC06	A	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004			250.00	272.98	pg	9	15	
GC06	B	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004			250.00	242.71	pg	-3	15	

CONTINUING CALIBRATION SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	OntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	10978	10757	50.000	48.996	pg	-2	15	
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	12276	11582	50.000	47.175	pg	-6	15	
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	10978	10837	100.00	98.721	pg	-1	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	12276	11367	100.00	92.595	pg	-7	15	
GC06	A	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004	10978	10395	50.000	47.344	pg	-5	15	
GC06	B	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004	12276	10813	50.000	44.042	pg	-12	15	

CONTINUING CALIBRATION SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	10103	12265	50.000	60.700	pg	**21**	15	c+
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	10128	11846	50.000	58.482	pg	**17**	15	c+
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	10103	11483	100.00	113.66	pg	14	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	10128	11747	100.00	115.99	pg	**16**	15	c+
GC06	A	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004	10103	11344	50.000	56.144	pg	12	15	
GC06	B	204334995038	20-AUG-2004 12:07	204322005001	10-AUG-2004	10128	11130	50.000	54.946	pg	10	15	

Mit % Rec limits
BES 9/7/04

+=high bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	223_001	X	hex			10-AUG-2004 14:45	1.0				
002	223_002	CCV	pcb250_50			10-AUG-2004 15:19	1.0			1	
003	223_003	X	ccv			10-AUG-2004 15:52	1.0			1	
011	223_011	X	hex			10-AUG-2004 20:57	1.0				
012	223_012	ICAL	pcb10_2			10-AUG-2004 21:30	1.0	1.0		2	
013	223_013	ICAL	pcb25_5			10-AUG-2004 22:03	1.0	1.0		3	
014	223_014	ICAL	pcb100_20			10-AUG-2004 22:36	1.0	1.0		4	
015	223_015	ICAL	pcb250_50			10-AUG-2004 23:09	1.0	1.0		1	
016	223_016	ICAL	pcb500_100			10-AUG-2004 23:43	1.0	1.0		5	
017	223_017	ICAL	pcb750_150			11-AUG-2004 00:16	1.0	1.0		6	
018	223_018	ICAL	pcb1K_200			11-AUG-2004 00:49	1.0	1.0		7	
019	223_019	X	hex			11-AUG-2004 01:22	1.0				
020	223_020	CCV	accu_1660			11-AUG-2004 01:55	1.0	1.0	1	8	
021	223_021	X	icv			11-AUG-2004 02:29	1.0			8	
022	223_022	X	icv			11-AUG-2004 03:02	1.0			9	
024	223_024	BLANK	QC260723	93632	Soil	11-AUG-2004 10:51	1.0	0.8306	1		
025	223_025	LCS	QC260724	93632	Soil	11-AUG-2004 11:24	1.0	0.8259	1		
026	223_026	MS	QC260725	93632	Soil	11-AUG-2004 11:58	1.0	0.8328	1		
027	223_027	MSD	QC260726	93632	Soil	11-AUG-2004 12:32	1.0	0.8311	1		
028	223_028	MSS	173735-008	93632	Soil	11-AUG-2004 13:05	1.0	0.8273	1		
029	223_029	SAMPLE	173875-001	93632	Soil	11-AUG-2004 13:38	1.0	0.8328	1		
030	223_030	SAMPLE	173875-002	93632	Soil	11-AUG-2004 14:16	1.0	0.8273	1		
031	223_031	CHECK	04ws0993			11-AUG-2004 14:55	1.0	1.0	1	10	
032	223_032	SAMPLE	173866-001	93632	Soil	11-AUG-2004 15:29	1.0	0.821	1		
033	223_033	SAMPLE	173866-002	93632	Soil	11-AUG-2004 16:02	1.0	0.821	1		
035	223_035	X	ccv			11-AUG-2004 17:34	1.0			5	
036	223_036	CCV	pcb500_100			11-AUG-2004 18:08	1.0	1.0	1	5	
037	223_037	CCV	ar1254			11-AUG-2004 18:41	1.0	1.0	1	11	
038	223_038	X	ccv			11-AUG-2004 19:14	1.0			11	
040	223_040	SAMPLE	173748-007	93632	Soil	11-AUG-2004 20:20	1.0	0.842	1		
041	223_041	SAMPLE	173735-002	93527	Soil	11-AUG-2004 20:54	1.0	0.6793	1		

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
042	223_042	SAMPLE	173735-003	93527	Soil	11-AUG-2004 21:27	1.0	0.6892			1		
043	223_043	SAMPLE	173755-001	93527	Soil	11-AUG-2004 22:00	1.0	0.6557			1		
044	223_044	SAMPLE	173755-003	93527	Soil	11-AUG-2004 22:33	1.0	0.6878			1		
045	223_045	SAMPLE	173863-001	93632	Miscel	11-AUG-2004 23:06	1.0	0.8429			1		
046	223_046	SAMPLE	173752-003	93632	Soil	11-AUG-2004 23:40	1.0	0.8284			1		
047	223_047	SAMPLE	173752-004	93632	Soil	12-AUG-2004 00:13	1.0	0.8333			1		
048	223_048	SAMPLE	173752-005	93632	Soil	12-AUG-2004 00:46	1.0	0.8319			1		
049	223_049	SAMPLE	173752-006	93632	Soil	12-AUG-2004 01:19	1.0	0.8243		1	1		
051	223_051	CCV	pcb250_50			12-AUG-2004 02:26	1.0	1.0			1	9	
052	223_052	X	ccv			12-AUG-2004 02:59	1.0					9	
053	223_053	X	ccv			12-AUG-2004 03:32	1.0					11	
054	223_054	CCV	ar1254			12-AUG-2004 04:05	1.0	1.0			1	11	
056	223_056	SAMPLE	173752-007	93632	Soil	12-AUG-2004 05:12	1.0	0.8213			1		
057	223_057	SAMPLE	173752-008	93632	Soil	12-AUG-2004 05:45	2.0	0.8284			1		
058	223_058	SAMPLE	173752-009	93632	Soil	12-AUG-2004 06:18	1.0	0.8469			1		
059	223_059	SAMPLE	173752-010	93632	Soil	12-AUG-2004 06:52	5.0	0.8199			1		
060	223_060	SAMPLE	173752-011	93632	Soil	12-AUG-2004 07:25	1.0	0.8325			1		
061	223_061	SAMPLE	173752-012	93632	Soil	12-AUG-2004 07:58	1.0	0.8245			1		
062	223_062	SAMPLE	173752-013	93632	Soil	12-AUG-2004 08:31	1.0	0.83			1		
063	223_063	SAMPLE	173752-014	93632	Soil	12-AUG-2004 09:05	1.0	0.8426			1		
065	223_065	CCV	pcb500_100			12-AUG-2004 10:11	1.0	1.0			1	5	
066	223_066	X	ccv			12-AUG-2004 10:44	1.0					5	
067	223_067	CCV	ar1254			12-AUG-2004 11:18	1.0	1.0			1	11	
068	223_068	X	ccv			12-AUG-2004 11:51	1.0					11	
070	223_070	BLANK	QC260919	93682	Soil	12-AUG-2004 17:27	1.0	0.6743			1		
071	223_071	LCS	QC260920	93682	Soil	12-AUG-2004 18:00	1.0	0.6575			1		
072	223_072	MS	QC260921	93682	Soil	12-AUG-2004 18:34	1.0	0.6653			1		
073	223_073	MSD	QC260922	93682	Soil	12-AUG-2004 19:07	1.0	0.6734			1		
074	223_074	MSS	173927-001	93682	Soil	12-AUG-2004 19:40	1.0	0.6757			1		
075	223_075	SAMPLE	173735-004	93426	Soil	12-AUG-2004 20:13	1.0	0.8273			1		
076	223_076	SAMPLE	173735-005	93426	Soil	12-AUG-2004 20:46	1.0	0.8392			1		

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
077	223_077	SAMPLE	173894-004	93682	Soil	12-AUG-2004 21:20	1.0	0.6653		1	1		
078	223_078	SAMPLE	173894-005	93682	Soil	12-AUG-2004 21:53	1.0	0.6649		4	1		
079	223_079	SAMPLE	173926-001	93682	Soil	12-AUG-2004 22:26	1.0	0.6748			1		
081	223_081	CCV	pcb250_50			12-AUG-2004 23:33	1.0	1.0			1	9	
082	223_082	X	ccv			13-AUG-2004 00:06	1.0					9	
083	223_083	CCV	ar1254			13-AUG-2004 00:39	1.0	1.0			1	11	
084	223_084	X	ccv			13-AUG-2004 01:12	1.0					11	
086	223_086	SAMPLE	173927-002	93682	Soil	13-AUG-2004 02:19	1.0	0.6671	1	1	1		2:PCB126=1166.88
087	223_087	SAMPLE	173868-056	93682	Soil	13-AUG-2004 02:52	1.0	0.6653			1		
088	223_088	SAMPLE	173868-057	93682	Soil	13-AUG-2004 03:25	1.0	0.6739			1		
089	223_089	SAMPLE	173868-059	93682	Soil	13-AUG-2004 03:59	1.0	0.6707			1		
090	223_090	SAMPLE	173868-061	93682	Soil	13-AUG-2004 04:32	1.0	0.6725			1		
091	223_091	SAMPLE	173868-062	93682	Soil	13-AUG-2004 05:05	1.0	0.6623			1		
092	223_092	SAMPLE	173868-063	93682	Soil	13-AUG-2004 05:38	1.0	0.6743			1		
093	223_093	SAMPLE	173868-064	93682	Soil	13-AUG-2004 06:12	1.0	0.677			1		
094	223_094	SAMPLE	173868-065	93682	Soil	13-AUG-2004 06:45	1.0	0.6766			1		
095	223_095	SAMPLE	173868-066	93682	Soil	13-AUG-2004 07:18	1.0	0.6761			1		
097	223_097	CCV	pcb500_100			13-AUG-2004 08:25	1.0	1.0			1	5	
098	223_098	X	ccv			13-AUG-2004 08:58	1.0					5	
099	223_099	CCV	ar1254			13-AUG-2004 09:31	1.0	1.0			1	11	
100	223_100	X	ccv			13-AUG-2004 10:04	1.0					11	
102	223_102	SAMPLE	173868-067	93682	Soil	13-AUG-2004 11:11	1.0	0.6734			1		
103	223_103	SAMPLE	173894-005	93682	Soil	13-AUG-2004 11:59	1.0	0.6649		4	1		
104	223_104	SAMPLE	173868-068	93682	Soil	13-AUG-2004 12:32	1.0	0.6729			1		
105	223_105	SAMPLE	173868-069	93682	Soil	13-AUG-2004 13:06	1.0	0.6775			1		
106	223_106	SAMPLE	173868-070	93682	Soil	13-AUG-2004 13:39	1.0	0.6693			1		
107	223_107	SAMPLE	173868-071	93682	Soil	13-AUG-2004 14:12	1.0	0.672			1		
108	223_108	SAMPLE	173868-072	93682	Soil	13-AUG-2004 14:45	1.0	0.6693			1		
110	223_110	CCV	pcb250_50			13-AUG-2004 15:52	1.0	1.0			1	9	
112	223_112	CCV	ar1254			13-AUG-2004 16:58	1.0	1.0			1	11	
113	223_113	X	ccv			13-AUG-2004 17:32	1.0					11	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204334995 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	232_002	CCV	pcb250_50			19-AUG-2004 15:15	1.0	1.0	1		1	1	
003	232_003	X	ccv			19-AUG-2004 15:48	1.0					1	
004	232_004	X	ccv			19-AUG-2004 17:17	1.0					2	
005	232_005	CCV	ar1254			19-AUG-2004 17:51	1.0	1.0			1	2	
006	232_006	CCV	ar1248			19-AUG-2004 18:26	1.0	1.0			1	3	
007	232_007	X	ar1248			19-AUG-2004 18:59	1.0					3	
009	232_009	BLANK A	QC261649	93858	Soil	19-AUG-2004 20:05	1.0	0.6596	1		1		
010	232_010	LCS	QC261650	93858	Soil	19-AUG-2004 20:39	1.0	0.6636	1		1		
011	232_011	MS	QC261651	93858	Soil	19-AUG-2004 21:12	1.0	0.6716	1		1		
012	232_012	MSD	QC261652	93858	Soil	19-AUG-2004 21:45	1.0	0.677	1	2	1		
013	232_013	MSS	174046-001	93858	Soil	19-AUG-2004 22:18	1.0	0.6752	1		1		
014	232_014	SAMPLE	174046-002	93858	Soil	19-AUG-2004 22:51	1.0	0.6579	1		1		
015	232_015	BLANK	QC261820	93903	Soil	19-AUG-2004 23:24	1.0	0.8406	1		1		
016	232_016	LCS	QC261821	93903	Soil	19-AUG-2004 23:58	1.0	0.8392	1	1	1		
017	232_017	SAMPLE	173931-007	93776	Soil	20-AUG-2004 00:31	20.0	0.6579	1		1		
018	232_018	SAMPLE	173868-031	93644	Soil	20-AUG-2004 01:04	5.0	0.6716	2	2	1		
020	232_020	CCV	pcb500_100			20-AUG-2004 02:10	1.0	1.0	1		1	4	
021	232_021	X	ccv			20-AUG-2004 02:43	1.0					4	
022	232_022	CCV	ar1254			20-AUG-2004 03:17	1.0	1.0			1	2	
023	232_023	X	ccv			20-AUG-2004 03:50	1.0					2	
024	232_024	X	ar1248			20-AUG-2004 04:23	1.0					3	
025	232_025	CCV	ar1248			20-AUG-2004 04:56	1.0	1.0			1	3	
027	232_027	SAMPLE	173868-021	93644	Soil	20-AUG-2004 06:02	2.0	0.668	1		1		
028	232_028	SAMPLE	173868-055	93670	Soil	20-AUG-2004 06:36	1.0	0.6761	1	2	1		
029	232_029	SAMPLE	174046-003	93858	Soil	20-AUG-2004 07:09	1.0	0.6743	1		1		
030	232_030	SAMPLE	174046-004	93858	Soil	20-AUG-2004 07:42	1.0	0.6662	1		1		
031	232_031	SAMPLE A	174073-001	93858	Soil	20-AUG-2004 08:15	1.0	0.6689	1		1		
032	232_032	SAMPLE	174073-002	93858	Soil	20-AUG-2004 08:48	1.0	0.6596	1		1		
033	232_033	SAMPLE	174073-003	93858	Soil	20-AUG-2004 09:22	1.0	0.6667	1		1		
034	232_034	SAMPLE	174073-004	93858	Soil	20-AUG-2004 09:55	1.0	0.6649	1		1		
035	232_035	SAMPLE	174073-005	93858	Soil	20-AUG-2004 10:28	1.0	0.6748	1		1		

Stds used: 1=04WS1423 2=04WS0546 3=04WS1542 4=04WS0963

SEQUENCE SUMMARY FOR 174073 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204334995 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	232_036	MSS	174092-003	93903	Soil	20-AUG-2004 11:01	1.0	0.8342	2	1	1	2:PCB101=2164.28	
038	232_038	CCV	pcb250_50			20-AUG-2004 12:07	1.0	1.0	1		1	1	
039	232_039	X	ccv			20-AUG-2004 12:41	1.0					1	
040	232_040	X	ccv			20-AUG-2004 13:14	1.0					2	
041	232_041	CCV	ar1254			20-AUG-2004 13:47	1.0	1.0			1	2	

61

Stds used: 1=04WS1423 2=04WS0546 3=04WS1542 4=04WS0963

Reporting Summary for 174073 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174073-001	Aroclor-1016	GC06	A	08/20/04 08:15
174073-001	Aroclor-1221	GC06	A	08/20/04 08:15
174073-001	Aroclor-1232	GC06	A	08/20/04 08:15
174073-001	Aroclor-1242	GC06	A	08/20/04 08:15
174073-001	Aroclor-1248	GC06	A	08/20/04 08:15
174073-001	Aroclor-1254	GC06	A	08/20/04 08:15
174073-001	Aroclor-1260	GC06	A	08/20/04 08:15
174073-001	TCMX	GC06	A	08/20/04 08:15
174073-001	Decachlorobiphenyl	GC06	A	08/20/04 08:15
174073-002	Aroclor-1016	GC06	A	08/20/04 08:48
174073-002	Aroclor-1221	GC06	A	08/20/04 08:48
174073-002	Aroclor-1232	GC06	A	08/20/04 08:48
174073-002	Aroclor-1242	GC06	A	08/20/04 08:48
174073-002	Aroclor-1248	GC06	A	08/20/04 08:48
174073-002	Aroclor-1254	GC06	A	08/20/04 08:48
174073-002	Aroclor-1260	GC06	A	08/20/04 08:48
174073-002	TCMX	GC06	A	08/20/04 08:48
174073-002	Decachlorobiphenyl	GC06	A	08/20/04 08:48
174073-003	Aroclor-1016	GC06	A	08/20/04 09:22
174073-003	Aroclor-1221	GC06	A	08/20/04 09:22
174073-003	Aroclor-1232	GC06	A	08/20/04 09:22
174073-003	Aroclor-1242	GC06	A	08/20/04 09:22
174073-003	Aroclor-1248	GC06	A	08/20/04 09:22
174073-003	Aroclor-1254	GC06	A	08/20/04 09:22
174073-003	Aroclor-1260	GC06	A	08/20/04 09:22
174073-003	TCMX	GC06	A	08/20/04 09:22
174073-003	Decachlorobiphenyl	GC06	A	08/20/04 09:22
174073-004	Aroclor-1016	GC06	A	08/20/04 09:55
174073-004	Aroclor-1221	GC06	A	08/20/04 09:55
174073-004	Aroclor-1232	GC06	A	08/20/04 09:55
174073-004	Aroclor-1242	GC06	A	08/20/04 09:55
174073-004	Aroclor-1248	GC06	A	08/20/04 09:55
174073-004	Aroclor-1254	GC06	A	08/20/04 09:55
174073-004	Aroclor-1260	GC06	A	08/20/04 09:55
174073-004	TCMX	GC06	A	08/20/04 09:55
174073-004	Decachlorobiphenyl	GC06	A	08/20/04 09:55
174073-005	Aroclor-1016	GC06	A	08/20/04 10:28
174073-005	Aroclor-1221	GC06	A	08/20/04 10:28
174073-005	Aroclor-1232	GC06	A	08/20/04 10:28
174073-005	Aroclor-1242	GC06	A	08/20/04 10:28
174073-005	Aroclor-1248	GC06	A	08/20/04 10:28
174073-005	Aroclor-1254	GC06	B	08/20/04 10:28
174073-005	Aroclor-1260	GC06	A	08/20/04 10:28
174073-005	TCMX	GC06	A	08/20/04 10:28
174073-005	Decachlorobiphenyl	GC06	A	08/20/04 10:28
QC261649	Aroclor-1016	GC06	A	08/19/04 20:05
QC261649	Aroclor-1221	GC06	A	08/19/04 20:05
QC261649	Aroclor-1232	GC06	A	08/19/04 20:05
QC261649	Aroclor-1242	GC06	A	08/19/04 20:05

Reporting Summary for 174073 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC261649	Aroclor-1248	GC06	A	08/19/04 20:05
QC261649	Aroclor-1254	GC06	A	08/19/04 20:05
QC261649	Aroclor-1260	GC06	A	08/19/04 20:05
QC261649	TCMX	GC06	A	08/19/04 20:05
QC261649	Decachlorobiphenyl	GC06	A	08/19/04 20:05
QC261650	Aroclor-1016	GC06	A	08/19/04 20:39
QC261650	Aroclor-1260	GC06	A	08/19/04 20:39
QC261650	TCMX	GC06	A	08/19/04 20:39
QC261650	Decachlorobiphenyl	GC06	A	08/19/04 20:39
QC261651	Aroclor-1016	GC06	A	08/19/04 21:12
QC261651	Aroclor-1260	GC06	A	08/19/04 21:12
QC261651	TCMX	GC06	A	08/19/04 21:12
QC261651	Decachlorobiphenyl	GC06	A	08/19/04 21:12
QC261652	Aroclor-1016	GC06	A	08/19/04 21:45
QC261652	Aroclor-1260	GC06	A	08/19/04 21:45
QC261652	TCMX	GC06	A	08/19/04 21:45
QC261652	Decachlorobiphenyl	GC06	A	08/19/04 21:45

Curtis & Tompkins Laboratories **Sample Preparation Summary** **19-AUG-2004 14:55**

Batch Number : 93858
Date Extracted: 18-AUG-2004
Extracted by : Sharon L. Karagozlu
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174046-001			URS Corporation	Soil	14.81	g	10	0.675219	1	.025	0		PCB	3665A	mss
174046-002			URS Corporation	Soil	15.2	g	10	0.657895	1	.025	0		PCB	3665A	
174046-003			URS Corporation	Soil	14.83	g	10	0.674309	1	.025	0		PCB	3665A	
174046-004			URS Corporation	Soil	15.01	g	10	0.666223	1	.025	0		PCB	3665A	
174073-001			Treadwell & Rollo	Soil	14.95	g	10	0.668896	1	.025	0		PCB	3665A	
174073-002			Treadwell & Rollo	Soil	15.16	g	10	0.659631	1	.025	0		PCB	3665A	
174073-003			Treadwell & Rollo	Soil	15	g	10	0.666667	1	.025	0		PCB	3665A	
174073-004			Treadwell & Rollo	Soil	15.04	g	10	0.664894	1	.025	0		PCB	3665A	
174073-005			Treadwell & Rollo	Soil	14.82	g	10	0.674764	1	.025	0		PCB	3665A	
174074-001			Treadwell & Rollo	Soil	14.94	g	10	0.669344	1	.025	0		PCB	3665A	
174080-005			Brighton Environmental	Soil	15.06	g	10	0.664011	1	.025	0		PCB	3665A	
QC261649	MB			Soil	15.16	g	10	0.659631	1	.025	0		PCB	3665A	
QC261650	LCS			Soil	15.07	g	10	0.663570	1	.025	.025		PCB	3665A	
QC261651	MS	of 174046-001		Soil	14.89	g	10	0.671592	1	.025	.025		PCB	3665A	
QC261652	MSD	of 174046-001		Soil	14.77	g	10	0.677048	1	.025	.025		PCB	3665A	

Prep Chemist: [signature] Reviewed By: [signature] Date: 8/20/04

Relinquished By: [signature] Received By: [signature] Date: 8/19/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

BK 1940

Page 64

LIMS Batch No: 93858
LIMS Analysis PCB
Extracted by: SLK
Date Extracted: 8/19/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☑ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

	Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
	MB ~~OC~~ 061649	15.16	10.0	
	LCS 50	15.07		
	MS 51	14.89		174046-001
	MSD 52	14.77		↓
5	174046-001	14.81		MSS
	-002	15.20		
	-003	14.83		
	-004	15.01		
	174073-001	14.95		
10	-002	15.16		
	-003	15.00		
	-004	15.04		
	-005	14.82		
	174080-005	15.06		
15	174074-001	14.94		
20				

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM 43310410	SLK 8/18/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 040603	
0.025 mL of surrogate solution was added to all samples	04WS13437	
0.025 mL of spike solution 1660 was added to all spikes	04WS13201	
1:1 CH_2Cl_2 (lot# EM 44199):Acetone(lot# EM 44085) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D28	
PFE (ASE) / soxhlets on at:	N/A	
PFE (ASE) / soxhlets off at:	↓	
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	↓	↓
Concentrated to volumes noted above after exchange to Hexane Lot#	JTB X53346	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTB X26046	
Centrifuged for 1 min: 10mL transferred to labelled vial	✓	

8/19/04

Continued from page ____
Continued on page ____

Reviewed by / Date

42

PROJECT Soil Aliquot

Notebook No. BK 1979

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
MB	14.93	8081	Em433104110
LCS	15.02		↓
MS	15.11		174056-010
MSD	14.96		↓
174046-001	15.01		Comp-001A, -001B, -001C, -001D
-002	14.87		
-003	15.21		
-004	14.95		↓
174056-010	14.96		MSS, Comp-007A, -008A, -009A
MB	15.16	PCB	Em433104110
LCS	15.07		↓
MS	14.89		174046-001
MSD	14.77		↓
174046-001	14.81		MSS, Comp-001A, -001B, -001C, -001D
-002	15.20		
-003	14.83		
-004	15.01		↓
174073-001A	14.96	8081	
-002	14.91		
-003	15.20		
-004	14.82		
-005	15.17		
174073-001A	14.95	PCB	
-002	15.16		
-003	15.00		
-004	15.04		
-005	14.82		

5/18/04

Continued on Page

Read and Understood By

5/18/04

Signed Date Signed Date

Sample ID	Weight (g)	Analysis	Comments
MB	49.79	TEH	EM433104.10
LCS	50.26		↓
MS	49.93		174081-002A
MSD	50.03		↓
174081-001 A	49.89		Rodney
↓ -002 ↓	50.14	↓	MSS
174074-001 A	14.94	PCB	
174074-001	15.13	8081	
174080-005 ↓	15.06	PCB	Comp-001A, 002A, 003A, 004A

8/18/04

Continued on Page

Read and Understood By

8/18/04

Signed Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14 A	GC14 B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0			09/24/02 2.7	09/24/02 3.7	12/19/03 2.2	12/19/03 2.4
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	08/12/03 5.4	08/12/03 3.2			08/02/03 2.3	08/02/03 2.0	07/26/03 2.6	07/26/03 1.8
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9			09/24/02 2.3	09/24/02 3.1	12/19/03 1.7	12/19/03 4.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX111[0.5]	Batch#:	93867
Lab ID:	174073-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL
Antimony	ND	2.8
Arsenic	3.5	0.23
Barium	12	0.46
Beryllium	ND	0.093
Cadmium	ND	0.23
Chromium	45	0.46
Cobalt	6.2	0.93
Copper	3.7	0.46
Lead	1.7	0.14
Molybdenum	ND	0.93
Nickel	21	0.93
Selenium	1.3	0.23
Silver	ND	0.23
Thallium	ND	0.23
Vanadium	43	0.46
Zinc	16	0.93

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX112[0.5]	Batch#:	93867
Lab ID:	174073-002	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL
Antimony	ND	2.7
Arsenic	2.6	0.22
Barium	13	0.44
Beryllium	0.11	0.089
Cadmium	ND	0.22
Chromium	46	0.44
Cobalt	5.6	0.89
Copper	4.1	0.44
Lead	8.6	0.13
Molybdenum	ND	0.89
Nickel	22	0.89
Selenium	0.37	0.22
Silver	ND	0.22
Thallium	ND	0.22
Vanadium	44	0.44
Zinc	23	0.89

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX113[0.5]	Batch#:	93867
Lab ID:	174073-003	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL
Antimony	ND	2.0
Arsenic	2.3	0.17
Barium	8.5	0.34
Beryllium	0.095	0.068
Cadmium	0.25	0.17
Chromium	61	0.34
Cobalt	5.1	0.68
Copper	3.4	0.34
Lead	2.0	0.10
Molybdenum	ND	0.68
Nickel	20	0.68
Selenium	0.56	0.17
Silver	ND	0.17
Thallium	ND	0.17
Vanadium	51	0.34
Zinc	16	0.68

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX114[0.5]	Batch#:	93867
Lab ID:	174073-004	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL
Antimony	ND	2.1
Arsenic	2.4	0.18
Barium	19	0.35
Beryllium	0.12	0.071
Cadmium	0.26	0.18
Chromium	50	0.35
Cobalt	5.6	0.71
Copper	5.0	0.35
Lead	4.2	0.11
Molybdenum	ND	0.71
Nickel	26	0.71
Selenium	0.40	0.18
Silver	ND	0.18
Thallium	ND	0.18
Vanadium	47	0.35
Zinc	26	0.71

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX115[0.5]	Batch#:	93867
Lab ID:	174073-005	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 5%

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	2.2	0.25
Barium	22	0.50
Beryllium	0.13	0.10
Cadmium	0.39	0.25
Chromium	52	0.50
Cobalt	5.3	1.0
Copper	12	0.50
Lead	32	0.15
Molybdenum	ND	1.0
Nickel	26	1.0
Selenium	0.39	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	42	0.50
Zinc	61	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261677	Batch#:	93867
Matrix:	Soil	Prepared:	08/19/04
Units:	mg/Kg	Analyzed:	08/19/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93867
Units:	mg/Kg	Prepared:	08/19/04
Basis:	as received	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: BS Lab ID: QC261678

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	94.00	94	75-125
Arsenic	50.00	47.15	94	75-125
Barium	100.0	92.50	93	75-125
Beryllium	2.500	2.525	101	75-125
Cadmium	10.00	9.000	90	75-125
Chromium	100.0	97.00	97	75-125
Cobalt	25.00	24.25	97	75-125
Copper	12.50	13.00	104	75-125
Lead	100.0	97.50	98	75-125
Molybdenum	20.00	18.70	94	75-125
Nickel	25.00	23.15	93	75-125
Selenium	50.00	44.20	88	75-125
Silver	10.00	10.10	101	75-125
Thallium	50.00	45.80	92	75-125
Vanadium	25.00	25.05	100	75-125
Zinc	25.00	23.60	94	75-125

Type: BSD Lab ID: QC261679

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	98.00	98	75-125	4	30
Arsenic	50.00	49.45	99	75-125	5	30
Barium	100.0	94.50	95	75-125	2	30
Beryllium	2.500	2.620	105	75-125	4	30
Cadmium	10.00	9.300	93	75-125	3	30
Chromium	100.0	100.0	100	75-125	3	30
Cobalt	25.00	25.00	100	75-125	3	30
Copper	12.50	13.30	106	75-125	2	30
Lead	100.0	100.0	100	75-125	3	30
Molybdenum	20.00	19.90	100	75-125	6	30
Nickel	25.00	23.85	95	75-125	3	30
Selenium	50.00	47.60	95	75-125	7	30
Silver	10.00	10.35	104	75-125	2	30
Thallium	50.00	47.35	95	75-125	3	30
Vanadium	25.00	25.70	103	75-125	3	30
Zinc	25.00	24.40	98	75-125	3	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174073	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX111[0.5]	Batch#:	93867
MSS Lab ID:	174073-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: MS Moisture: 3%
Lab ID: QC261680

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.389	76.93	45.01	57 *	75-125
Arsenic	3.455	38.47	35.97	85	75-125
Barium	12.26	76.93	79.24	87	75-125
Beryllium	0.09102	1.923	1.800	89	75-125
Cadmium	<0.02577	7.693	6.693	87	75-125
Chromium	45.05	76.93	107.3	81	75-125
Cobalt	6.223	19.23	21.50	79	75-125
Copper	3.687	9.617	12.35	90	75-125
Lead	1.676	76.93	68.09	86	75-125
Molybdenum	0.4737	15.39	12.69	79	75-125
Nickel	20.62	19.23	35.39	77	75-125
Selenium	1.286	38.47	31.62	79	75-125
Silver	<0.09175	7.693	6.924	90	75-125
Thallium	<0.1959	38.47	31.77	83	75-125
Vanadium	42.54	19.23	55.78	69 *	75-125
Zinc	16.49	19.23	32.27	82	75-125

Type: MSD Moisture: 3%
Lab ID: QC261681

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	78.10	46.86	58 *	75-125	3	30
Arsenic	39.05	39.05	91	75-125	7	30
Barium	78.10	84.35	92	75-125	5	30
Beryllium	1.953	1.921	94	75-125	5	30
Cadmium	7.810	7.107	91	75-125	4	30
Chromium	78.10	110.1	83	75-125	2	30
Cobalt	19.53	22.88	85	75-125	5	30
Copper	9.763	13.04	96	75-125	4	30
Lead	78.10	72.63	91	75-125	5	30
Molybdenum	15.62	14.10	87	75-125	9	30
Nickel	19.53	37.29	85	75-125	5	30
Selenium	39.05	35.26	87	75-125	9	30
Silver	7.810	7.381	95	75-125	5	30
Thallium	39.05	34.13	87	75-125	6	30
Vanadium	19.53	57.40	76	75-125	2	30
Zinc	19.53	34.33	91	75-125	5	30

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74334497011	Seqnum	: 74334497014
Filename	: tr245417	Filename	: tr245420
IDF	: 1.0	IDF	: 1.0
PDF	: 45.05	PDF	: 45.05
Run type	: MSS	Run type	: PDS
Samplenum	: 174073-001	Samplenum	: QC261683
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93867	Batchnum	: 93867
Inj	: 19-AUG-2004 08:13	Inj	: 19-AUG-2004 08:31
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	29.90	2000	1910	94	16-120	u
Arsenic	74.40	1000	1020	95	62-120	u
Barium	264.0	2000	2110	92	51-137	u
Beryllium	1.960	50	53.20	102	70-120	u
Cadmium	ND	200	172.0	86	61-120	u
Calcium	67700	20000	86750	95	40-149	
Chromium	970.0	2000	2870	95	60-120	u
Cobalt	134.0	500	612.0	96	56-120	u
Copper	79.40	250	347.0	107	47-144	u
Iron	*** usable MSS data not found ***					
Lead	36.10	2000	1960	96	47-126	u
Magnesium	46780	20000	66010	96	44-152	
Manganese	3670	500	4090	84	62-131	:
Molybdenum	10.20	400	394.0	96	57-120	u
Nickel	444.0	500	871.0	85	41-138	u
Selenium	27.70	1000	998.0	97	35-122	u
Silver	ND	200	205.0	103	71-120	u
Thallium	ND	1000	892.0	89	53-120	u
Vanadium	916.0	500	1400	97	48-136	u
Zinc	355.0	500	817.0	92	38-144	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74334497011	Seqnum	: 74334497012
Filename	: tr245417	Filename	: tr245418
IDF	: 1.0	IDF	: 5.0
PDF	: 45.05	PDF	: 45.05
Run type	: MSS	Run type	: SER
Samplenum	: 174073-001	Samplenum	: QC261682
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93867	Batchnum	: 93867
Inj	: 19-AUG-2004 08:13	Inj	: 19-AUG-2004 08:23
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.70	ND	13.5	--	10	u
Arsenic	3.35	0.225	3.31	1.13	--	10	u
Barium	11.9	0.450	11.4	2.25	4	10	u
Beryllium	ND	0.0901	ND	0.450	--	10	u
Cadmium	ND	0.225	ND	1.13	--	10	u
Calcium	3050	22.5	3060	113	0	10	
Chromium	43.7	0.450	43.0	2.25	2	10	u
Cobalt	6.04	0.901	6.08	4.50	1	10	u
Copper	3.58	0.450	3.96	2.25	11	10	u
Iron	*** usable MSS data not found ***						
Lead	1.63	0.135	1.62	0.676	--	10	u
Magnesium	2110	22.5	2060	113	2	10	
Manganese	165	0.450	160	2.25	3	10	
Molybdenum	ND	0.901	ND	4.50	--	10	u
Nickel	20.0	0.901	20.0	4.50	0	10	u
Selenium	1.25	0.225	1.78	1.13	--	10	r b*
Silver	ND	0.225	ND	1.13	--	10	u
Thallium	ND	0.225	ND	1.13	--	10	u
Vanadium	41.3	0.450	40.1	2.25	3	10	u
Zinc	16.0	0.901	15.5	4.50	3	10	u
Titanium	*** usable MSS data not found ***						

b=noncompliant r=RSD out u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74334497011	Seqnum	: 74334497013
Filename	: tr245417	Filename	: tr245419
IDF	: 1.0	IDF	: 5.0
PDF	: 45.05	PDF	: 45.05
Run type	: MSS	Run type	: SER
Samplenum	: 174073-001	Samplenum	: QC261682
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93867	Batchnum	: 93867
Inj	: 19-AUG-2004 08:13	Inj	: 19-AUG-2004 08:27
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.70	ND	13.5	--	10	
Arsenic	3.35	0.225	3.04	1.13	--	10	
Barium	11.9	0.450	11.8	2.25	0	10	
Beryllium	ND	0.0901	ND	0.450	--	10	
Cadmium	ND	0.225	ND	1.13	--	10	
Calcium	3050	22.5	3200	113	5	10	
Chromium	43.7	0.450	44.8	2.25	3	10	
Cobalt	6.04	0.901	6.26	4.50	4	10	
Copper	3.58	0.450	4.14	2.25	16	10	
Iron	*** usable MSS data not found ***						
Lead	1.63	0.135	1.63	0.676	--	10	
Magnesium	2110	22.5	2160	113	2	10	
Manganese	165	0.450	168	2.25	1	10	
Molybdenum	ND	0.901	ND	4.50	--	10	
Nickel	20.0	0.901	20.8	4.50	4	10	
Selenium	1.25	0.225	1.42	1.13	--	10	u
Silver	ND	0.225	ND	1.13	--	10	
Thallium	ND	0.225	ND	1.13	--	10	
Vanadium	41.3	0.450	41.9	2.25	2	10	
Zinc	16.0	0.901	16.1	4.50	1	10	
Titanium	*** usable MSS data not found ***						

u=use

Method: 6010B Standard: blank
Run Time: 08/19/04 06:44:28

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.004	.002	.000	.004	-.279	.004	.000
SDev	.001	.002	.001	.000	.004	.001	.000
%RSD	24.3	85.1	171.	4.97	1.43	35.5	66.3
#1	-.005	.004	-.000	.004	-.282	.003	.001
#2	-.003	.001	.001	.004	-.276	.005	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.007	.003	-.002	.005	.002	-.009
SDev	.000	.001	.000	.001	.000	.001	.001
%RSD	98.7	14.1	12.2	49.9	5.16	27.4	7.86
#1	-.000	.007	.003	-.002	.005	.003	-.010
#2	-.000	.006	.003	-.001	.005	.002	-.009

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	.000	-.003	.001	.038	.0733	-.0033
SDev	.001	.001	.001	.000	.001	.0013	.0000
%RSD	8.64	345.	24.4	40.1	3.48	1.766	.5996
#1	.006	.000	-.003	.001	.039	.0742	-.0033
#2	.007	-.000	-.002	.000	.037	.0724	-.0033

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0021	.0005	.001	.172
SDev	.0005	.0003	.001	.003
%RSD	23.65	65.63	101.	1.49
#1	-.0017	.0007	.002	.174
#2	-.0024	.0003	.000	.171

Method: 6010B Standard: cst hi
Run Time: 08/19/04 06:50:24

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.58	.878	.373	18.4	3.44	1.37	.274
SDev	.07	.034	.018	1.0	.18	.06	.015
%RSD	4.47	3.82	4.94	5.16	5.23	4.57	5.43
#1	1.63	.902	.386	19.1	3.57	1.41	.284
#2	1.53	.854	.360	17.8	3.31	1.32	.263

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.899	.599	1.03	1.01	2.72	2.36	.433
SDev	.047	.032	.04	.06	.12	.12	.018
%RSD	5.19	5.32	3.67	6.09	4.55	5.10	4.12
#1	.932	.621	1.06	1.05	2.81	2.45	.446
#2	.866	.576	1.01	.967	2.64	2.28	.421

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.482	.325	.258	1.00	.248	.1949	.3307
SDev	.026	.017	.013	.05	.013	.0096	.0167
%RSD	5.50	5.11	5.20	5.29	5.07	4.939	5.064
#1	.501	.337	.268	1.04	.256	.2017	.3425
#2	.464	.313	.249	.967	.239	.1881	.3188

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1361	.2025	1.29	7.77
SDev	.0069	.0106	.07	.40
%RSD	5.043	5.240	5.26	5.20
#1	.1410	.2100	1.34	8.05
#2	.1313	.1950	1.24	7.48

Standardization Report 08/19/04 06:54:09 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	628.344	2.64683	08/19/04 06:50:24
Sb206A	206.832	Multiple	Standards	1119.37	-2.52873	08/19/04 06:50:24
As1890	189.042	Multiple	Standards	1343.44	-.559490	08/19/04 06:50:24
Ba4934	493.409	Multiple	Standards	54.2244	-.203354	08/19/04 06:50:24
Be3130	313.042	Multiple	Standards	25.9519	7.23535	08/19/04 06:50:24
Cd2265	226.502	Multiple	Standards	73.3707	-.298779	08/19/04 06:50:24
Cr2677	267.716	Multiple	Standards	732.340	-.295239	08/19/04 06:50:24
Co2286	228.616	Multiple	Standards	557.237	.161647	08/19/04 06:50:24
Cu3247	324.754	Multiple	Standards	337.738	-2.27352	08/19/04 06:50:24
Pb2203	220.351	Multiple	Standards	485.798	-1.34074	08/19/04 06:50:24
Pb220A	220.352	Multiple	Standards	489.645	.793810	08/19/04 06:50:24
Mo2020	202.030	Multiple	Standards	367.793	-1.72464	08/19/04 06:50:24
Ni2316	231.604	Multiple	Standards	211.893	-.506233	08/19/04 06:50:24
Se1960	196.021	Multiple	Standards	1129.32	10.6764	08/19/04 06:50:24
Se196A	196.022	Multiple	Standards	1049.50	-6.84001	08/19/04 06:50:24
Ag3280	328.068	Multiple	Standards	308.058	-.041263	08/19/04 06:50:24
Tl1908	190.864	Multiple	Standards	1930.49	5.34452	08/19/04 06:50:24
V_2924	292.402	Multiple	Standards	498.328	-.297964	08/19/04 06:50:24
Zn2138	213.856	Multiple	Standards	492.717	-18.7000	08/19/04 06:50:24
Al3082	308.215	Multiple	Standards	8377.99	-614.327	08/19/04 06:50:24
Ca3179	317.933	Multiple	Standards	5987.89	19.9154	08/19/04 06:50:24
Fe2714	271.441	Multiple	Standards	7574.40	15.5606	08/19/04 06:50:24
Mg2790	279.079	Multiple	Standards	9895.05	-4.74356	08/19/04 06:50:24
Mn2576	257.610	Multiple	Standards	77.5590	-.081368	08/19/04 06:50:24
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/19/04 06:50:24
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/19/04 06:50:24
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/19/04 06:50:24
Ti3349	334.941	Multiple	Standards	131.646	-22.7008	08/19/04 06:50:24

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497001
Run Name :
Filename : tr245407
Injected : 19-AUG-2004 06:57
Caltype :

Standards: 04WS1530

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1003.000	ug/L	0	5	
Antimony	1000.000	971.0000	ug/L	-3	5	
Arsenic	500.0000	499.0000	ug/L	0	5	
Barium	1000.000	1020.000	ug/L	2	5	
Beryllium	100.0000	98.50000	ug/L	-2	5	
Cadmium	100.0000	98.60000	ug/L	-1	5	
Calcium	2000.000	1949.000	ug/L	-3	5	
Chromium	200.0000	198.0000	ug/L	-1	5	
Cobalt	500.0000	493.0000	ug/L	-1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	978.2000	ug/L	-2	5	
Lead	500.0000	495.0000	ug/L	-1	5	
Magnesium	2000.000	1951.000	ug/L	-2	5	
Manganese	100.0000	98.60000	ug/L	-1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	493.0000	ug/L	-1	5	
Selenium	500.0000	518.0000	ug/L	4	5	
Silver	100.0000	98.40000	ug/L	-2	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	998.0000	ug/L	0	5	
Vanadium	500.0000	496.0000	ug/L	-1	5	
Zinc	100.0000	98.20000	ug/L	-2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497002

Run Name :
Filename : tr245408

Injected : 19-AUG-2004 07:09
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	453.8000	ug/L	-9	10	
Antimony	500.0000	532.0000	ug/L	6	10	
Arsenic	250.0000	249.0000	ug/L	0	10	
Barium	500.0000	488.0000	ug/L	-2	10	
Beryllium	50.00000	49.40000	ug/L	-1	10	
Cadmium	50.00000	49.40000	ug/L	-1	10	
Calcium	1000.000	994.3000	ug/L	-1	10	
Chromium	100.0000	99.90000	ug/L	0	10	
Cobalt	250.0000	243.0000	ug/L	-3	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	499.8000	ug/L	0	10	
Lead	250.0000	247.0000	ug/L	-1	10	
Magnesium	1000.000	986.6000	ug/L	-1	10	
Manganese	50.00000	48.70000	ug/L	-3	10	
Molybdenum	500.0000	496.0000	ug/L	-1	10	
Nickel	250.0000	246.0000	ug/L	-2	10	
Selenium	250.0000	233.0000	ug/L	-7	10	
Silver	50.00000	49.90000	ug/L	0	10	
Thallium	250.0000	237.0000	ug/L	-5	10	
Titanium	500.0000	514.0000	ug/L	3	10	
Vanadium	250.0000	247.0000	ug/L	-1	10	
Zinc	50.00000	53.10000	ug/L	6	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497004

Run Name :
Filename : tr245410

Injected : 19-AUG-2004 07:23
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	104.2000	ug/L	4	50	
Antimony	60.00000	76.90000	ug/L	28	50	
Arsenic	5.000000	7.630000	ug/L	**53**	50	cri+ ***
Barium	10.00000	9.990000	ug/L	0	50	
Beryllium	2.000000	1.850000	ug/L	-8	50	
Cadmium	5.000000	5.060000	ug/L	1	50	
Calcium	200.0000	226.3000	ug/L	13	50	
Chromium	10.00000	11.90000	ug/L	19	50	
Cobalt	20.00000	19.90000	ug/L	-1	50	
Copper	10.00000	12.10000	ug/L	21	50	
Iron	100.0000	155.6000	ug/L	**56**	50	cri+ ***
Lead	3.000000	2.640000	ug/L	-12	50	
Magnesium	200.0000	207.5000	ug/L	4	50	
Manganese	10.00000	10.40000	ug/L	4	50	
Molybdenum	20.00000	26.30000	ug/L	32	50	
Nickel	20.00000	21.40000	ug/L	7	50	
Selenium	5.000000	6.410000	ug/L	28	50	
Silver	5.000000	5.150000	ug/L	3	50	
Thallium	5.000000	3.460000	ug/L	-31	50	
Vanadium	10.00000	10.50000	ug/L	5	50	
Zinc	20.00000	18.70000	ug/L	-7	50	

+=high bias

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74334497005 Filename : tr245411 Injected : 19-AUG-2004 07:34
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	75.33000	ug/L	-25	50	
Antimony	60.00000	61.50000	ug/L	3	50	
Arsenic	5.000000	6.550000	ug/L	31	50	
Barium	10.00000	9.130000	ug/L	-9	50	
Beryllium	2.000000	1.770000	ug/L	-12	50	
Cadmium	5.000000	4.770000	ug/L	-5	50	
Calcium	200.0000	227.3000	ug/L	14	50	
Chromium	10.00000	9.670000	ug/L	-3	50	
Cobalt	20.00000	18.60000	ug/L	-7	50	
Copper	10.00000	11.30000	ug/L	13	50	
Iron	100.0000	101.3000	ug/L	1	50	
Lead	3.000000	3.190000	ug/L	6	50	
Magnesium	200.0000	201.3000	ug/L	1	50	
Manganese	10.00000	9.530000	ug/L	-5	50	
Molybdenum	20.00000	20.00000	ug/L	0	50	
Nickel	20.00000	18.50000	ug/L	-8	50	
Selenium	5.000000	5.060000	ug/L	1	50	
Silver	5.000000	4.600000	ug/L	-8	50	
Thallium	5.000000	2.890000	ug/L	-42	50	
Vanadium	10.00000	9.900000	ug/L	-1	50	
Zinc	20.00000	15.80000	ug/L	-21	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497015

Run Name :
Filename : tr245421

IDF : 1.0
Injected : 19-AUG-2004 08:38
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	427.7000	ug/L	-14	10	c- **
Antimony		500.0000	490.0000	ug/L	-2	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	478.0000	ug/L	-4	10	
Beryllium		50.00000	47.80000	ug/L	-4	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	972.8000	ug/L	-3	10	
Chromium		100.0000	96.80000	ug/L	-3	10	
Cobalt		250.0000	235.0000	ug/L	-6	10	
Copper		100.0000	99.80000	ug/L	0	10	
Iron		500.0000	514.4000	ug/L	3	10	
Lead		250.0000	241.0000	ug/L	-4	10	
Magnesium		1000.000	968.1000	ug/L	-3	10	
Manganese		50.00000	47.40000	ug/L	-5	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	242.0000	ug/L	-3	10	
Selenium		250.0000	230.0000	ug/L	-8	10	
Silver		50.00000	47.90000	ug/L	-4	10	
Thallium		250.0000	228.0000	ug/L	-9	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	238.0000	ug/L	-5	10	
Zinc		50.00000	51.90000	ug/L	4	10	

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497027
Run Name :
Filename : tr245433
IDF : 1.0
Injected : 19-AUG-2004 09:39
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	691.5000	ug/L	-8	10	
Antimony		750.0000	717.0000	ug/L	-4	10	
Arsenic		375.0000	354.0000	ug/L	-6	10	
Barium		750.0000	704.0000	ug/L	-6	10	
Beryllium		75.00000	72.50000	ug/L	-3	10	
Cadmium		75.00000	71.30000	ug/L	-5	10	
Calcium		1500.000	1453.000	ug/L	-3	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	354.0000	ug/L	-6	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	730.3000	ug/L	-3	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1448.000	ug/L	-3	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	725.0000	ug/L	-3	10	
Nickel		375.0000	357.0000	ug/L	-5	10	
Selenium		375.0000	353.0000	ug/L	-6	10	
Silver		75.00000	73.10000	ug/L	-3	10	
Thallium		375.0000	344.0000	ug/L	-8	10	
Titanium		750.0000	746.0000	ug/L	-1	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	75.40000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497039

Run Name :
Filename : tr245445

IDF : 1.0
Injected : 19-AUG-2004 10:54
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	464.4000	ug/L	-7	10	
Antimony		500.0000	478.0000	ug/L	-4	10	
Arsenic		250.0000	239.0000	ug/L	-4	10	
Barium		500.0000	469.0000	ug/L	-6	10	
Beryllium		50.00000	48.40000	ug/L	-3	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	958.2000	ug/L	-4	10	
Chromium		100.0000	97.50000	ug/L	-3	10	
Cobalt		250.0000	236.0000	ug/L	-6	10	
Copper		100.0000	98.10000	ug/L	-2	10	
Iron		500.0000	473.4000	ug/L	-5	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	965.6000	ug/L	-3	10	
Manganese		50.00000	46.50000	ug/L	-7	10	
Molybdenum		500.0000	483.0000	ug/L	-3	10	
Nickel		250.0000	241.0000	ug/L	-4	10	
Selenium		250.0000	230.0000	ug/L	-8	10	
Silver		50.00000	48.20000	ug/L	-4	10	
Thallium		250.0000	229.0000	ug/L	-8	10	
Titanium		500.0000	496.0000	ug/L	-1	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	48.30000	ug/L	-3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497003 Run Name: Injected: 19-AUG-2004 07:17
Filename: tr245409 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[6.4600]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.4280]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497016 Run Name:
Filename: tr245422 Run Type: CCB

Injected: 19-AUG-2004 08:51

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[2.6000]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[34.740]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.2600]	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.2700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.8100]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497028 Run Name: Injected: 19-AUG-2004 09:45
Filename: tr245434 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[37.660]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.3900]	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[7.8200]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.9000]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.1600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497040 Run Name: Injected: 19-AUG-2004 11:02
Filename: tr245446 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.5370]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.380]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[4.3300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.7780]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	[5.5600]	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497006 Run Name: Injected: 19-AUG-2004 07:43
Filename: tr245412 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[5.4900]	60.00000	ug/L	<RL	
Arsenic	[-2.370]	5.000000	ug/L	<RL	
Barium	[-0.141]	10.00000	ug/L	<RL	
Beryllium	[-0.890]	2.000000	ug/L	<RL	
Cadmium	[-0.645]	5.000000	ug/L	<RL	
Chromium	[3.2200]	10.00000	ug/L	<RL	
Cobalt	[0.4050]	10.00000	ug/L	<RL	
Copper	[-1.050]	10.00000	ug/L	<RL	
Lead	[-0.755]	3.000000	ug/L	<RL	
Manganese	[2.1700]	10.00000	ug/L	<RL	
Molybdenum	[-1.410]	20.00000	ug/L	<RL	
Nickel	[1.6700]	20.00000	ug/L	<RL	
Selenium	[2.5100]	5.000000	ug/L	<RL	
Silver	[-0.196]	5.000000	ug/L	<RL	
Thallium	[-2.910]	5.000000	ug/L	<RL	
Titanium	21.70000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-5.150]	10.00000	ug/L	<RL	
Zinc	[3.6200]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	511000	ug/L	102
Calcium	500000	443300.	ug/L	89
Iron	200000	175500	ug/L	88
Magnesium	500000	505200	ug/L	101

+=high bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497007

Run Name :
Filename : tr245413

Injected : 19-AUG-2004 07:47
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	541900.0	ug/L	8		
Antimony	500.0000	523.0000	ug/L	5	20	
Arsenic	500.0000	485.0000	ug/L	-3	20	
Barium	500.0000	463.0000	ug/L	-7	20	
Beryllium	500.0000	492.0000	ug/L	-2	20	
Cadmium	1000.000	853.0000	ug/L	-15	20	
Calcium	500000.0	472200.0	ug/L	-6		
Chromium	500.0000	462.0000	ug/L	-8	20	
Cobalt	500.0000	465.0000	ug/L	-7	20	
Copper	500.0000	534.0000	ug/L	7	20	
Iron	200000.0	184900.0	ug/L	-8		
Lead	1000.000	944.0000	ug/L	-6	20	
Magnesium	500000.0	532700.0	ug/L	7		
Manganese	500.0000	469.0000	ug/L	-6	20	
Molybdenum	500.0000	464.0000	ug/L	-7	20	
Nickel	1000.000	856.0000	ug/L	-14	20	
Selenium	500.0000	488.0000	ug/L	-2	20	
Silver	1000.000	888.0000	ug/L	-11	20	
Thallium	500.0000	453.0000	ug/L	-9	20	
Titanium	20000.00	21700.00	ug/L	9		
Vanadium	500.0000	473.0000	ug/L	-5	20	
Zinc	1000.000	969.0000	ug/L	-3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497038

Run Name :
Filename : tr245444

Injected : 19-AUG-2004 10:38
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	512200.0	ug/L	2		
Antimony	500.0000	514.0000	ug/L	3	20	
Arsenic	500.0000	491.0000	ug/L	-2	20	
Barium	500.0000	471.0000	ug/L	-6	20	
Beryllium	500.0000	469.0000	ug/L	-6	20	
Cadmium	1000.000	875.0000	ug/L	-13	20	
Calcium	500000.0	426800.0	ug/L	-15		
Chromium	500.0000	454.0000	ug/L	-9	20	
Cobalt	500.0000	453.0000	ug/L	-9	20	
Copper	500.0000	503.0000	ug/L	1	20	
Iron	200000.0	175500.0	ug/L	-12		
Lead	1000.000	925.0000	ug/L	-8	20	
Magnesium	500000.0	517000.0	ug/L	3		
Manganese	500.0000	444.0000	ug/L	-11	20	
Molybdenum	500.0000	457.0000	ug/L	-9	20	
Nickel	1000.000	857.0000	ug/L	-14	20	
Selenium	500.0000	484.0000	ug/L	-3	20	
Silver	1000.000	863.0000	ug/L	-14	20	
Thallium	500.0000	451.0000	ug/L	-10	20	
Titanium	20000.00	21200.00	ug/L	6		
Vanadium	500.0000	457.0000	ug/L	-9	20	
Zinc	1000.000	1000.000	ug/L	0	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74334497 Instrument: MET07 TJA Trace ICP Begun: 19-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr245407	CS				19-AUG-2004 06:57	1.0	1.0			1	
002	tr245408	ICV				19-AUG-2004 07:09	1.0	1.0			2	
003	tr245409	ICB				19-AUG-2004 07:17	1.0	1.0				
004	tr245410	CRI				19-AUG-2004 07:23	1.0	1.0	2		3	
005	tr245411	CRI				19-AUG-2004 07:34	1.0	1.0			3	
006	tr245412	ICSA				19-AUG-2004 07:43	1.0	1.0	1		4	4:AL=511000
007	tr245413	ICSAB				19-AUG-2004 07:47	1.0	1.0			5	5:AL=541900
008	tr245414	BLANK	QC261677	93867	Soil	19-AUG-2004 07:58	1.0	50.0	2			
009	tr245415	BS	QC261678	93867	Soil	19-AUG-2004 08:02	1.0	50.0	2			
010	tr245416	BSD	QC261679	93867	Soil	19-AUG-2004 08:07	1.0	50.0	2			
011	tr245417	MSS	174073-001	93867	Soil	19-AUG-2004 08:13	1.0	45.05	3			3:FE=306100
012	tr245418	SER	QC261682	93867	Soil	19-AUG-2004 08:23	5.0	45.05	1	1		
013	tr245419	SER	QC261682	93867	Soil	19-AUG-2004 08:27	5.0	45.05		1		
014	tr245420	PDS	QC261683	93867	Soil	19-AUG-2004 08:31	1.0	45.05			6 7	3:FE=316100
015	tr245421	CCV				19-AUG-2004 08:38	1.0	1.0	1		8	
016	tr245422	CCB				19-AUG-2004 08:51	1.0	1.0				
017	tr245423	MS	QC261680	93867	Soil	19-AUG-2004 08:55	1.0	37.31				3:FE=349600
018	tr245424	MSD	QC261681	93867	Soil	19-AUG-2004 08:59	1.0	37.88				3:FE=355600
019	tr245425	SAMPLE	174056-004	93867	Soil	19-AUG-2004 09:05	1.0	38.17				5:FE=544400
020	tr245426	SAMPLE	174056-005	93867	Soil	19-AUG-2004 09:09	1.0	43.48				5:FE=646600
021	tr245427	SAMPLE	174056-006	93867	Soil	19-AUG-2004 09:13	1.0	49.02				6:FE=1649000
022	tr245428	SAMPLE	174056-010	93867	Soil	19-AUG-2004 09:17	1.0	41.32				4:FE=532500
023	tr245429	SAMPLE	174056-015	93867	Soil	19-AUG-2004 09:21	1.0	31.45				4:FE=683700
024	tr245430	SAMPLE	174056-025	93867	Soil	19-AUG-2004 09:25	1.0	44.64				5:FE=797600
025	tr245431	SAMPLE	174066-001	93867	Miscel	19-AUG-2004 09:29	1.0	41.32	1			1:V=21400.0
026	tr245432	SAMPLE	174066-001	93867	Miscel	19-AUG-2004 09:34	2.0	41.32				
027	tr245433	CCV				19-AUG-2004 09:39	1.0	1.0			9	
028	tr245434	CCB				19-AUG-2004 09:45	1.0	1.0				
029	tr245435	SAMPLE	174066-002	93867	Miscel	19-AUG-2004 09:52	1.0	40.32	1			1:V=23800.0
030	tr245436	SAMPLE	174066-002	93867	Miscel	19-AUG-2004 09:57	2.0	40.32				
031	tr245437	SAMPLE	174073-002	93867	Soil	19-AUG-2004 10:00	1.0	43.48				3:FE=319600

Stds used: 1=04WS1530 2=04WS1316 3=04WS1488 4=04WS1124 5=04WS1256 6=04SS171 7=04SS172 8=04WS1317 9=04WS1319

Analyst: Melwh Date: 8/15/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74334497 Instrument: MET07 TJA Trace ICP Begun: 19-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr245438	SAMPLE	174073-003	93867	Soil	19-AUG-2004 10:04	1.0	33.56			4:FE=490100
033	tr245439	SAMPLE	174073-004	93867	Soil	19-AUG-2004 10:09	1.0	34.01			3:FE=440200
034	tr245440	SAMPLE	174073-005	93867	Soil	19-AUG-2004 10:16	1.0	47.62	1		3:FE=299000
035	tr245441	SAMPLE	174073-005	93867	Soil	19-AUG-2004 10:21	1.0	47.62			3:FE=310800
036	tr245442	SAMPLE	174088-001	93867	Soil	19-AUG-2004 10:26	1.0	53.19			3:FE=324000
037	tr245443	SAMPLE	174088-002	93867	Soil	19-AUG-2004 10:30	1.0	49.02			3:FE=340000
038	tr245444	ICSAB				19-AUG-2004 10:38	1.0	1.0		5	5:MG=517000
039	tr245445	CCV				19-AUG-2004 10:54	1.0	1.0		8	
040	tr245446	CCB				19-AUG-2004 11:02	1.0	1.0			

99

Stds used: 1=04WS1530 2=04WS1316 3=04WS1488 4=04WS1124 5=04WS1256 6=04SS171 7=04SS172 8=04WS1317 9=04WS1319

Analyst: Mesche Date: 8/19/04

REPORTING SUMMARY FOR 174073 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN	
174073-001	MET07	08/19/04 08:13	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
174073-002	MET07	08/19/04 10:00	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
174073-003	MET07	08/19/04 10:04	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
174073-004	MET07	08/19/04 10:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
174073-005	MET07	08/19/04 10:16	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	
174073-005	MET07	08/19/04 10:21	1.0												+					
QC261677	MET07	08/19/04 07:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC261678	MET07	08/19/04 08:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC261679	MET07	08/19/04 08:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC261680	MET07	08/19/04 08:55	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC261681	MET07	08/19/04 08:59	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
QC261682	MET07	08/19/04 08:23	5.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	
QC261682	MET07	08/19/04 08:27	5.0												+					
QC261683	MET07	08/19/04 08:31	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Curtis & Tompkins Laboratories Sample Preparation Summary 19-AUG-2004 01:13

Batch Number : 93867
Date Extracted: 19-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174056-004			Northgate Environmental Manage	Soil	1.31	g	50	38.167939	1					AS, PB		
174056-005			Northgate Environmental Manage	Soil	1.15	g	50	43.478261	1					AS, PB		
174056-006			Northgate Environmental Manage	Soil	1.02	g	50	49.019608	1					AS, PB		
174056-010			Northgate Environmental Manage	Soil	1.21	g	50	41.322314	1					AS, PB		
174056-015			Northgate Environmental Manage	Soil	1.59	g	50	31.446541	1					AS, PB		
174056-025			Northgate Environmental Manage	Soil	1.12	g	50	44.642857	1					AS, PB		
174066-001			ConocoPhillips Company	Miscell.	1.21	g	50	41.322314	1					V		
174066-002			ConocoPhillips Company	Miscell.	1.24	g	50	40.322581	1					V		
174073-001			Treadwell & Rollo	Soil	1.11	g	50	45.045045	1					T26/ICP		mss
174073-002			Treadwell & Rollo	Soil	1.15	g	50	43.478261	1					T26/ICP		
174073-003			Treadwell & Rollo	Soil	1.49	g	50	33.557047	1					T26/ICP		
174073-004			Treadwell & Rollo	Soil	1.47	g	50	34.013605	1					T26/ICP		
174073-005			Treadwell & Rollo	Soil	1.05	g	50	47.619048	1					T26/ICP		
174088-001			Presidio Trust	Soil	.94	g	50	53.191489	1					PB		
174088-002			Presidio Trust	Soil	1.02	g	50	49.019608	1					PB		
QC261677	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC261678	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC261679	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC261680	MS	of 174073-001		Soil	1.34	g	50	37.313433	1		.5	.5		ICAP		
QC261681	MSD	of 174073-001		Soil	1.32	g	50	37.878788	1		.5	.5		ICAP		
QC261682	SER	of 174073-001		Soil	1.11	g	50	45.045045	1					ICAP		
QC261683	PDS	of 174073-001		Soil	1.11	g	50	45.045045	1					ICAP		

Prep Chemist: VVergara Reviewed By: [signature] Date: 8/19/04

Relinquished By: VVergara Received By: [signature] Date: 8/19/04

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 938667
Date Digested: 8/18/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 49

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BK QC 261677	Ø	50.0	Y	
*	BS 261678				
*	BSD 261679	*			
*	174073-001 MS A	1.34			
*	-001 MSD	1.32			
	174056-004	1.31			comp 002-003
	-005 A	1.15			
	-006	1.02			
	-010	1.21			comp 007,008,009
10	-015	1.59			012,013,014
	-025	1.12			021,022,023,024,
	174066-001	1.21			comp 3 jars
	-002	1.24			
	174073-001 A	1.11			MSS Sampled from B side.
15	-002	1.15			
	-003	1.49			
	-004	1.47			
	-005	1.05			
	174088-001 A	0.94			
20	-002	1.02			

05 mL of spike solution was added to all spikes

	Reagent ID or LIMS #	Initials / Date
	045571 *	VV 8/18/04
	045572 *	
digestion temperature (90 - 95 degrees C)	95°C	
1:1 HNO3	A16051- 080504	
concentrated HNO3	A16051- JTBaker	
3mL 30% hydrogen peroxide	43287379- VWR	
concentrated HCl	A16039- JTBaker	
☒ filtered thru' Whatman # 541	E1566057	

8/18/04
Extraction Chemist / Date

Continued from page 102
Continued on page -

8/19/04
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050

Analyte	Units	MET01		MET07	
Aluminum	mg/Kg	07/26/04	1.5	07/21/04	0.52
Antimony	mg/Kg	07/20/04	1.3	07/21/04	0.20
Arsenic	mg/Kg	07/26/04	2.8	07/20/04	0.10
Barium	mg/Kg	07/27/04	0.098	07/21/04	0.013
Beryllium	mg/Kg	07/20/04	0.029	07/21/04	0.0063
Cadmium	mg/Kg	07/20/04	0.14	07/21/04	0.028
Calcium	mg/Kg	07/26/04	2.8	07/21/04	0.58
Chromium	mg/Kg	07/20/04	0.29	07/21/04	0.033
Cobalt	mg/Kg	07/20/04	0.39	07/21/04	0.076
Copper	mg/Kg	07/20/04	0.11	07/21/04	0.057
Iron	mg/Kg	07/20/04	1.5	07/21/04	0.80
Lead	mg/Kg	07/26/04	7.9	07/20/04	0.065
Magnesium	mg/Kg	07/20/04	1.5	07/21/04	0.52
Manganese	mg/Kg	07/20/04	0.11	07/20/04	0.11
Molybdenum	mg/Kg	07/20/04	0.43	07/21/04	0.062
Nickel	mg/Kg	07/20/04	0.64	07/21/04	0.067
Potassium	mg/Kg	07/27/04	18		
Selenium	mg/Kg	07/27/04	8.1	07/21/04	0.17
Silver	mg/Kg	07/26/04	0.18	07/21/04	0.098
Sodium	mg/Kg	07/26/04	2.8		
Thallium	mg/Kg	07/26/04	9.5	07/21/04	0.21
Vanadium	mg/Kg	07/20/04	0.14	07/21/04	0.045
Zinc	mg/Kg	07/20/04	0.17	07/21/04	0.17
Boron	mg/Kg	07/27/04	3.1		
Tin	mg/Kg	07/26/04	1.0		
Titanium	mg/Kg	07/26/04	0.099		

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93922
Date: 08/20/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174073-001	15.2225	22.4167	22.1743	97	3
174073-002	15.6100	22.4147	22.3093	98	2
174073-003	15.5518	22.3925	22.3364	99	1
174073-004	15.0072	22.5372	22.2501	96	4
174073-005	15.2236	22.6771	22.2874	95	5
174074-001	15.3721	22.8959	21.9705	88	12
174082-001	15.4401	22.8061	21.2271	79	21
174083-001	15.3036	22.6261	21.5861	86	14
174100-001	15.2081	22.3009	21.5402	89	11
174100-002	15.6565	22.4452	21.0835	80	20
174100-003	15.5434	22.1034	20.9957	83	17
174100-004	15.4944	22.4070	21.5272	87	13
174100-005	15.4507	22.7119	21.8969	89	11
174100-006	15.6739	22.4354	21.5366	87	13
174100-007	15.4388	22.7535	21.9792	89	11
QC261912	15.3914	22.5597	22.3312	97	3
of 174073-001			RPD:	0.2%	5.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93922
Date Started: 20-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
174073-001		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-002		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-003		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-004		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-005		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174074-001		Treadwell & Rollo	Soil	MOISTURE	25-AUG-2004
174082-001		Tan Phung Associat	Soil	MOISTURE	23-AUG-2004
174083-001		Tan Phung Associat	Soil	MOISTURE	23-AUG-2004
174100-001		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-002		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-003		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-004		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-005		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-006		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-007		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
QC261912	SDUP of 174073-001		Soil	MOISTURE	

PROJECT MOISTURE

Notebook No. 1942

Continued From Page Ø

8/19/04

93922

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	000	15.3688	—	15.3691	
174073-	1	F	15.2225	22.4167	22.1743	
DUP	1	6	15.3914	22.5597	22.3312	
	2	11	15.6102	22.4147	22.3093	
	3	4	15.5518	22.3925	22.3364	
	4	T	15.0072	22.5372	22.2501	
	5	89	15.2236	22.6771	22.2874	
174082-	1	39	15.4401	22.8061	21.2271	
174083-	1	146	15.3036	22.6261	21.3461	
174074-	1	44	15.3721	22.8959	21.9705	
174100-	1	71	15.2081	22.3009	21.5402	
	2	1976	15.6565	22.4452	21.0835	
	3	M2	15.5434	22.1034	20.9957	
	4	77	15.4444	22.4070	21.5272	
	5	21	15.4507	22.7119	21.8969	
	6	G	15.6739	22.4354	21.5366	
	7	32	15.4388	22.7535	21.9792	

OVEN TEMP: 105°C
TIME IN: 4:20 P.M.
TIME OUT: 8:38 A.M. ON: 8/20/04

Continued on Page /

Read and Understood By

Signed: [illegible] Date: 8/19/04 Signed: [illegible] Date: 8/20/04

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 174074

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio-Baker Beach 3

Sample ID	Lab ID
BB3EX116[0.5]	174074-001
TB081804A	174074-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Operations Manager Date: 9/23/04

Signature: _____ Project Manager Date: 9/22/04

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	174074
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio-Baker Beach 3
Request Date:	08/18/04
Samples Received:	08/18/04

This hardcopy data package contains sample and QC results for one soil sample and one water sample, requested for the above referenced project on 08/18/04. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
Low responses were observed for bromomethane and Freon 12 in the CCV analyzed 08/19/04 10:11; these analytes met minimum response criteria, and were not detected in the associated samples. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
Low response was observed for 4-nitroaniline in the ICV analyzed 07/12/04 20:07; this analyte was not detected in the associated samples. Low recoveries were observed for pyrene in the MS/MSD of BB3EX116[0.5] (lab # 174074-001); the LCS was within limits. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High ICAL percent RSD (relative standard deviation) was observed for endosulfan sulfate in the calibration analyzed 08/19/04 22:41; average ICAL %RSD met method requirements, and this analyte was not detected in the associated sample. High ICAL percent RSDs (relative standard deviations) were observed for beta-BHC, delta-BHC, and endosulfan sulfate in the calibration analyzed 08/18/04 01:59; average ICAL %RSD met method requirements, and these analytes were not detected in the associated sample. Low responses were observed for 4,4'-DDT and methoxychlor in the CCV analyzed 08/20/04 00:50; average CCV drift met method requirements, and affected data was qualified with "b". No other analytical problems were encountered.

Chlorinated Herbicides (EPA 8151):
APCL in Chino, CA performed the analysis. Please see the APCL case narrative.

PCBs (EPA 8082):
Low surrogate recovery was observed for decachlorobiphenyl in the MSD for batch 93858; the parent sample was not a project sample. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	174074
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio-Baker Beach 3
Request Date:	08/18/04
Samples Received:	08/18/04

Metals (EPA 6010B and EPA 7470A):

Low recoveries were observed for cobalt, antimony, and zinc in the MS/MSD for batch 93868; the parent sample was not a project sample, and the BS/BSD were within limits. High recovery was observed for zinc in the MS for batch 93868; the BS/BSD were within limits. Low recoveries were observed for nickel and antimony in the MS/MSD of BB3EX116[0.5] (lab # 174074-001); the BS/BSD were within limits. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

174074

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio-Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sujrida Reinis
Samplers: Mike Chamberlin
Recorder (Signature Required): (mc)

Turnaround Time: 5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	metals	Halogenated	Organics	VOCs	SVOCs	TPH Diesel	TPH Gasoline				Silica gel clean-up	Hold	Remarks
883EX116[05]	8/18/04	0930		X						1		X	X	X	X	X	X	X	X	X				X		
TB081804A	8/18/04	0930			X		1										X									

Sample 883EX116[05] Total Metals: Cd, Cr, Cu, Ni, Pb, Zn

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/18/04	1215			
Tony Reyes	8/18/04	1215			
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002238

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174074 Date Received: 8/18/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio - Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/18/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 8/18/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: 2 ziploc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3EX116[0.5]	Batch#:	93898
Matrix:	Soil	Sampled:	08/18/04
Units:	mg/Kg	Received:	08/18/04
Diln Fac:	1.000	Prepared:	08/19/04

Type:	SAMPLE	Moisture:	12%
Lab ID:	174074-001	Analyzed:	08/20/04
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	36 H	1.1	0.47
Motor Oil C24-C36	87 L	5.7	0.92

Surrogate	%REC	Limits
Hexacosane	104	65-135

Type:	BLANK	Analyzed:	08/19/04
Lab ID:	QC261805	Cleanup Method:	EPA 3630C
Basis:	as received		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.41
Motor Oil C24-C36	ND	5.0	0.80

Surrogate	%REC	Limits
Hexacosane	79	65-135

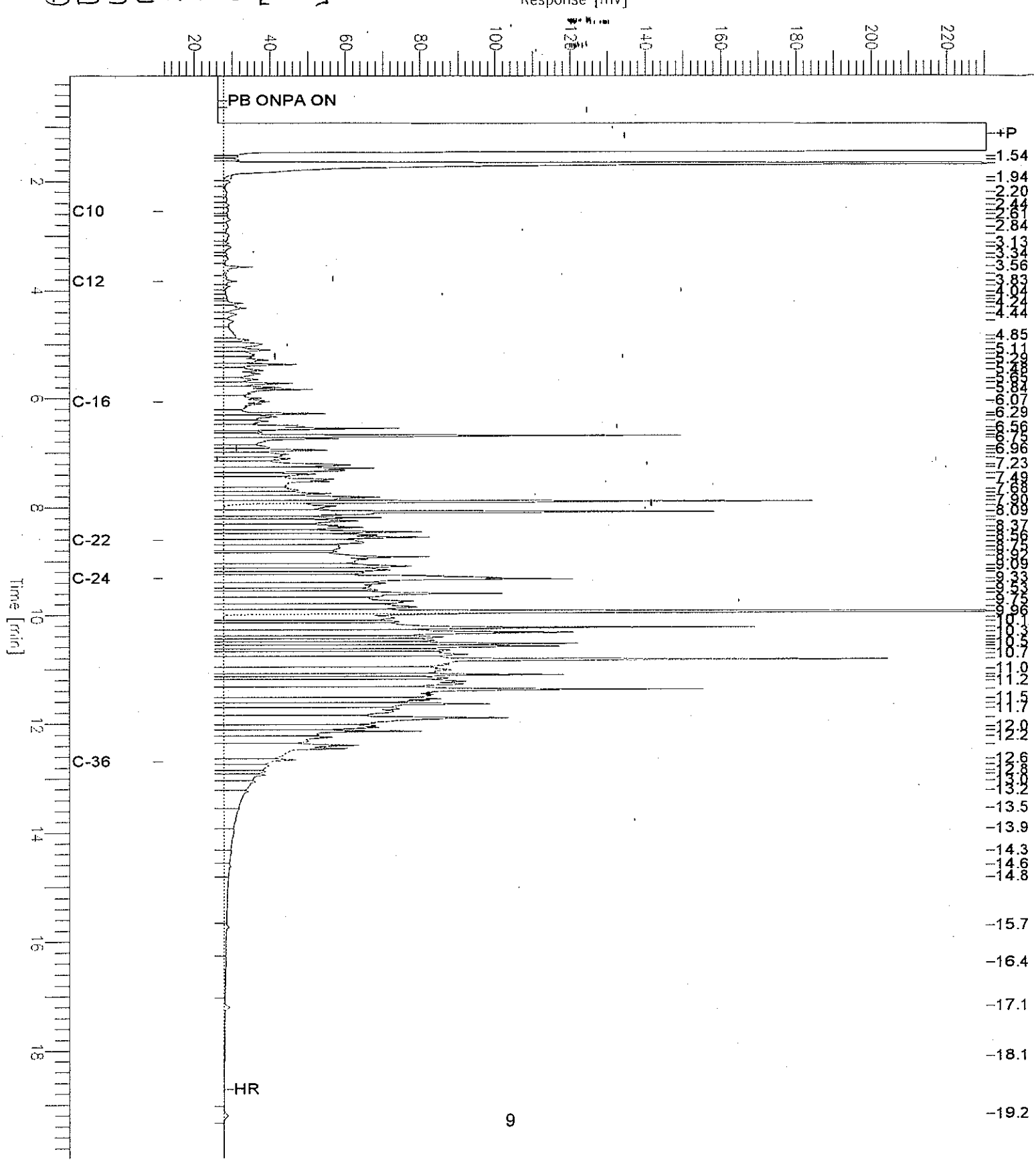
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Chromatogram

Sample Name : 174074-001sg,93898
FileName : G:\GC15\CHB\232B029.RAW
Method : BTEH229S.MTH
Start Time : 0.04 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #: 93898 Page 1 of 1
Date : 8/20/04 10:30 AM
Time of Injection: 8/20/04 04:45 AM
Low Point : 11.65 mV High Point : 230.58 mV
Plot Scale: 218.9 mV

BB3EX116 [0.5]

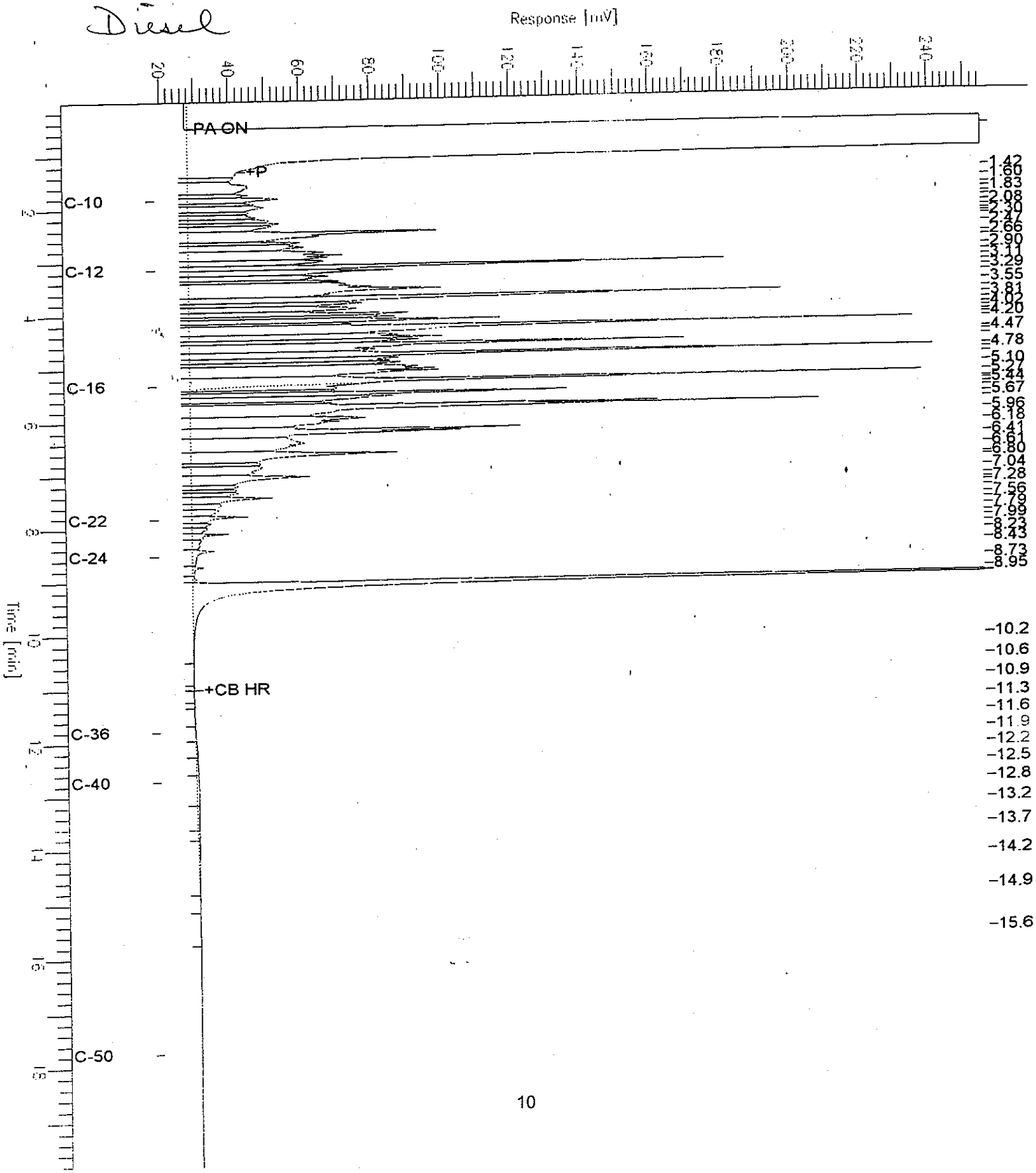


Chromatogram

mple Name : ccv,04ws1410,dsl
leName : G:\GC17\CHA\233A003.RAW
ethod : ATEH212.MTH
tart Time : 0.01 min End Time : 19.99 min
cale Factor: 0.0 Plot Offset: 19 mV

Sample #: 500mg/L
Date : 8/20/04 11:36 AM
Time of Injection: 8/20/04 10:53 AM
Low Point : 18.62 mV High Point : 254.70 mV
Plot Scale: 236.1 mV

Diesel



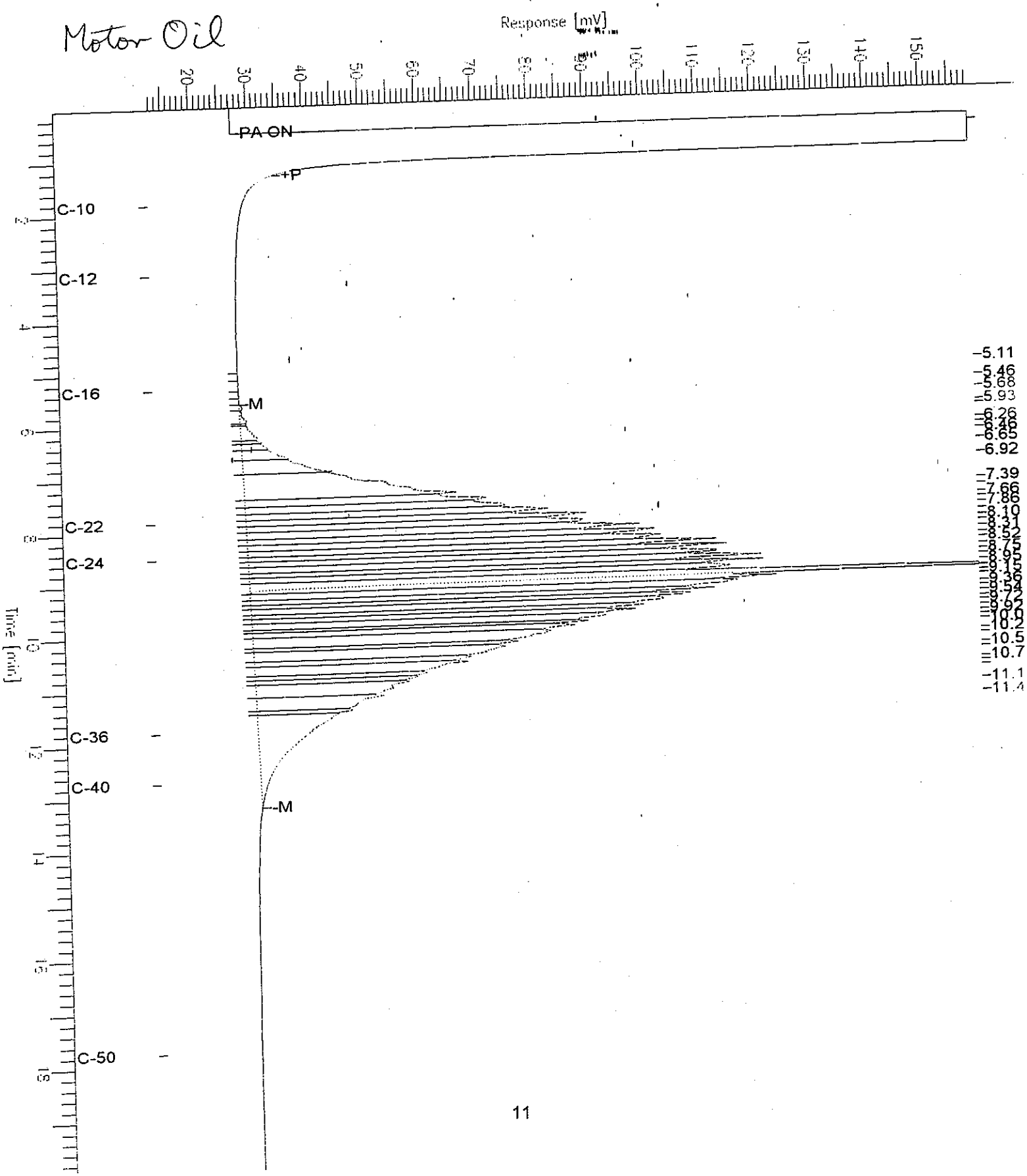
Chromatogram

nple Name : ccv,04ws1425,mo
leName : G:\GC17\CHA\233A004.RAW
thod : ATEH229.MTH
art Time : 0.01 min
ale Factor: 0.0

End Time : 19.99 min
Plot Offset: 13 mV

Sample #: 500mg/L
Date : 8/20/04 12:41 PM
Time of Injection: 8/20/04 11:21 AM
Low Point : 12.64 mV
High Point : 158.43 mV
Plot Scale: 145.8 mV

Motor Oil



Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC261806	Batch#:	93898
Matrix:	Soil	Prepared:	08/19/04
Units:	mg/Kg	Analyzed:	08/19/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	50.32	43.92	87	65-135

Surrogate	%REC	Limits
Hexacosane	92	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3EX116[0.5]	Batch#:	93898
MSS Lab ID:	174074-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/20/04
Diln Fac:	1.000		

Type:	MS	Moisture:	12%
Lab ID:	QC261807	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	36.36	56.83	73.11	65	65-135

Surrogate	%REC	Limits
Hexacosane	85	65-135

Type:	MSD	Moisture:	12%
Lab ID:	QC261808	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	56.76	84.98	86	65-135	15	35

Surrogate	%REC	Limits
Hexacosane	107	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: CW
Calnum: 164283116001 Name: diesel Type: (normal) Date: 14-JUL-2004 15:05 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b002	164283116002	dsl	14-JUL-2004 15:05	04WS1223
2	196b003	164283116003	dsl	14-JUL-2004 15:33	04WS1222
3	196b004	164283116004	dsl	14-JUL-2004 16:02	04WS1221
4	196b005	164283116005	dsl	14-JUL-2004 16:31	04WS1220
5	196b006	164283116006	dsl	14-JUL-2004 17:00	04WS1219
6	196b007	164283116007	dsl	14-JUL-2004 17:29	04WS1218
7	196b008	164283116008	dsl	14-JUL-2004 17:58	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	18446	21499	20824	20800	22542	21235	21471	AVRG	R		4.768E-5		mg/L	20974	6	0.995	20	
Diesel C10-C24	18446	21647	20984	20983	22719	21423	21646	AVRG	R		4.735E-5		mg/L	21121	6	0.995	20	
Diesel C10-C28	18446	21651	21007	21027	22770	21472	21698	AVRG	R		4.727E-5		mg/L	21153	6	0.995	20	
Diesel C10-C20	18446	20933	20228	20231	21906	20674	20874	AVRG	R		4.885E-5		mg/L	20470	5	0.995	20	
Diesel C12-C22	15496	18153	17621	17586	19118	18365	18507	AVRG	R		5.607E-5		mg/L	17835	6	0.995	20	
Diesel C12-C24	15496	18301	17781	17768	19295	18553	18683	AVRG	R		5.561E-5		mg/L	17983	7	0.995	20	
Diesel C12-C32	15496	18306	17804	17812	19346	18604	18740	AVRG	R		5.551E-5		mg/L	18016	7	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: CW
Calnum: 164283116004 Name: hxcs Type: (normal) Date: 14-JUL-2004 22:18 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b017	164283116017	hex	14-JUL-2004 22:18	04WS0533
2	196b018	164283116018	hex	14-JUL-2004 22:47	04WS0534
3	196b019	164283116019	hex	14-JUL-2004 23:16	04WS0535
4	196b020	164283116020	hex	14-JUL-2004 23:44	04WS0536
5	196b021	164283116021	hex	15-JUL-2004 00:13	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	22104	24448	23772	23458	24259	AVRG R		4.236E-5		mg/L	23609	4	0.995	20	

15

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 164323165001 Name: mo Type: (normal) Date: 11-AUG-2004 11:02 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	224b003	164323165003	mo	11-AUG-2004 11:02	04WS1208
2	224b004	164323165004	mo	11-AUG-2004 11:30	04WS1209
3	224b005	164323165005	mo	11-AUG-2004 11:59	04WS1210
4	224b006	164323165006	mo	11-AUG-2004 12:27	04WS1211
5	224b007	164323165007	mo	11-AUG-2004 12:56	04WS1212
6	224b008	164323165008	mo	11-AUG-2004 13:25	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Motor Oil C20-C36	18273	19727	20337	19327	18488	15622	AVRG	R		5.368E-5		mg/L	18629	9	0.995	20	
Motor Oil C22-C32	14847	15901	16259	16532	15862	13579	AVRG	R		6.453E-5		mg/L	15497	7	0.995	20	
Motor Oil C22-C36	16650	17942	18557	17446	16633	13774	AVRG	R		5.940E-5		mg/L	16834	10	0.995	20	
Motor Oil C24-C36	13610	13942	14477	14036	13162	10472	AVRG	R		7.528E-5		mg/L	13283	11	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MCH
Calnum: 174303334001 Name: Diesel Type: (normal) Date: 28-JUL-2004 16:02 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	210a002	174303334002	dsl	28-JUL-2004 16:02	04WS1223
2	210a003	174303334003	dsl	28-JUL-2004 16:30	04WS1222
3	210a004	174303334004	dsl	28-JUL-2004 16:59	04WS1221
4	210a005	174303334005	dsl	28-JUL-2004 17:27	04WS1220
5	210a006	174303334006	dsl	28-JUL-2004 17:56	04WS1219
6	210a007	174303334007	dsl	28-JUL-2004 18:24	04WS1218
7	210a015	174303334015	dsl5000	29-JUL-2004 09:35	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	20856	30931	31347	29739	33117	30379	29880	AVRG	R		3.394E-5		mg/L	29464	13	0.995	20	
Diesel C10-C24	21646	30931	31816	30175	33364	30649	30121	AVRG	R		3.354E-5		mg/L	29814	13	0.995	20	
Diesel C10-C28	21723	31035	31835	30201	33494	30709	30209	AVRG	R		3.346E-5		mg/L	29887	13	0.995	20	
Diesel C10-C20	19558	29284	30046	29007	32210	29445	29054	AVRG	R		3.525E-5		mg/L	28372	14	0.995	20	
Diesel C12-C22	16308	26436	26065	24730	27596	25215	25489	AVRG	R		4.074E-5		mg/L	24549	15	0.995	20	
Diesel C12-C24	17098	26436	26534	25167	27843	25485	25731	AVRG	R		4.016E-5		mg/L	24899	14	0.995	20	
Diesel C12-C32	17536	26567	26570	25209	27991	25560	25833	AVRG	R		3.994E-5		mg/L	25038	14	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MCH
Calnum: 174333230001 Name: Hexacosane Type: (normal) Date: 19-AUG-2004 17:49 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	231a050	174333230050	hex	19-AUG-2004 17:49	04WS0533
2	231a051	174333230051	hex	19-AUG-2004 18:18	04WS0534
3	231a052	174333230052	hex	19-AUG-2004 18:46	04WS0535
4	231a053	174333230053	hex	19-AUG-2004 19:15	04WS0536
5	231a054	174333230054	hex	19-AUG-2004 19:44	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	29376	31371	32624	33992	36192	AVRG R		3.057E-5		mg/L	32711	8	0.995	20	

18

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC15B	B	164334715009	19-AUG-2004 14:59	164283116001	14-JUL-2004	17983	17980	1000.0	999.88	mg/L	0	15	
GC15B	B	164334715022	20-AUG-2004 01:24	164283116001	14-JUL-2004	17983	17941	250.00	249.42	mg/L	0	15	
GC15B	B	164334715035	20-AUG-2004 07:37	164283116001	14-JUL-2004	17983	18577	500.00	516.53	mg/L	3	15	
GC17A	A	174336103003	20-AUG-2004 10:53	174303334001	28-JUL-2004	24899	24740	500.00	496.81	mg/L	-1	15	
GC17A	A	174336103010	20-AUG-2004 15:10	174303334001	28-JUL-2004	24899	25628	1000.0	1029.3	mg/L	3	15	

CONTINUING CALIBRATION SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC15B	B	164334715010	19-AUG-2004 15:28	164323165001	11-AUG-2004	13283	14808	500.00	557.41	mg/L	11	15	
GC15B	B	164334715023	20-AUG-2004 01:52	164323165001	11-AUG-2004	13283	14408	500.00	542.35	mg/L	8	15	
GC15B	B	164334715036	20-AUG-2004 08:06	164323165001	11-AUG-2004	13283	14474	500.00	544.84	mg/L	9	15	

CONTINUING CALIBRATION SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC15B	B	164334715009	19-AUG-2004 14:59	164283116004	14-JUL-2004	23609	23979	50.000	50.784	mg/L	2	15	
GC15B	B	164334715022	20-AUG-2004 01:24	164283116004	14-JUL-2004	23609	23112	50.000	48.949	mg/L	-2	15	
GC15B	B	164334715035	20-AUG-2004 07:37	164283116004	14-JUL-2004	23609	24100	50.000	51.040	mg/L	2	15	
GC17A	A	174336103003	20-AUG-2004 10:53	174333230001	19-AUG-2004	32711	31147	50.000	47.609	mg/L	-5	15	
GC17A	A	174336103010	20-AUG-2004 15:10	174333230001	19-AUG-2004	32711	33961	50.000	51.911	mg/L	4	15	

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164283116 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 14-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	196b001	X	ib			14-JUL-2004 14:36	1.0							
002	196b002	ICAL	dsl			14-JUL-2004 15:05	1.0						1	
003	196b003	ICAL	dsl			14-JUL-2004 15:33	1.0						2	
004	196b004	ICAL	dsl			14-JUL-2004 16:02	1.0						3	
005	196b005	ICAL	dsl			14-JUL-2004 16:31	1.0						4	
006	196b006	ICAL	dsl			14-JUL-2004 17:00	1.0						5	
007	196b007	ICAL	dsl			14-JUL-2004 17:29	1.0						6	
008	196b008	ICAL	dsl			14-JUL-2004 17:58	1.0						7	
009	196b009	X	ib			14-JUL-2004 18:28	1.0							
010	196b010	ICAL	mo			14-JUL-2004 18:57	1.0						8	
011	196b011	ICAL	mo			14-JUL-2004 19:25	1.0						9	
012	196b012	ICAL	mo			14-JUL-2004 19:54	1.0						10	
013	196b013	ICAL	mo			14-JUL-2004 20:23	1.0						11	
014	196b014	ICAL	mo			14-JUL-2004 20:52	1.0						12	
015	196b015	ICAL	mo			14-JUL-2004 21:21	1.0						13	
016	196b016	X	ib			14-JUL-2004 21:50	1.0							
017	196b017	ICAL	hex			14-JUL-2004 22:18	1.0						14	
018	196b018	ICAL	hex			14-JUL-2004 22:47	1.0						15	
019	196b019	ICAL	hex			14-JUL-2004 23:16	1.0						16	
020	196b020	ICAL	hex			14-JUL-2004 23:44	1.0						17	
021	196b021	ICAL	hex			15-JUL-2004 00:13	1.0						18	
022	196b022	X	ib			15-JUL-2004 00:42	1.0							
023	196b023	ICAL	jp5			15-JUL-2004 01:10	1.0						19	
024	196b024	ICAL	jp5			15-JUL-2004 01:39	1.0						20	
025	196b025	ICAL	jp5			15-JUL-2004 02:08	1.0						21	
026	196b026	ICAL	jp5			15-JUL-2004 02:36	1.0						22	
027	196b027	ICAL	jp5			15-JUL-2004 03:05	1.0						23	
028	196b028	X	ib			15-JUL-2004 03:34	1.0							
029	196b029	X	c12-16			15-JUL-2004 04:02	1.0							
030	196b030	X	c12-60			15-JUL-2004 04:31	1.0							

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533 15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0572 20=04WS0573 21=04WS0574 22=04WS0575 23=04WS0576 24=04WS0983 25=04WS1144 26=04WS1249 27=04WS0513

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164283116 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 14-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	196b031	X	c50			15-JUL-2004 04:59	1.0							
032	196b032	X	ib			15-JUL-2004 05:28	1.0							
033	196b033	ICV	dsl			15-JUL-2004 05:57	1.0			3			24	
034	196b034	X	ib			15-JUL-2004 06:25	1.0							
035	196b035	CCV	dsl			15-JUL-2004 06:54	1.0			3			25	
036	196b036	X	ib			15-JUL-2004 07:22	1.0							
037	196b037	CCV	mo			15-JUL-2004 07:51	1.0			3			26	
038	196b038	X	ib			15-JUL-2004 08:20	1.0							
039	196b039	CCV	jp5			15-JUL-2004 08:48	1.0			3			27	

23

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533 15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0572 20=04WS0573 21=04WS0574 22=04WS0575 23=04WS0576 24=04WS0983 25=04WS1144 26=04WS1249 27=04WS0513

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164323165 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 11-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	224b001	X	primer			11-AUG-2004 10:05	1.0						
002	224b002	X	ib			11-AUG-2004 10:33	1.0						
003	224b003	ICAL	mo			11-AUG-2004 11:02	1.0	1.0				1	
004	224b004	ICAL	mo			11-AUG-2004 11:30	1.0	1.0				2	
005	224b005	ICAL	mo			11-AUG-2004 11:59	1.0	1.0				3	
006	224b006	ICAL	mo			11-AUG-2004 12:27	1.0	1.0				4	
007	224b007	ICAL	mo			11-AUG-2004 12:56	1.0	1.0				5	
008	224b008	ICAL	mo			11-AUG-2004 13:25	1.0	1.0				6	
009	224b009	X	ib			11-AUG-2004 13:53	1.0						
010	224b010	CCV	mo			11-AUG-2004 14:22	1.0	1.0			3	7	
011	224b011	CCV	dsl			11-AUG-2004 15:36	1.0	1.0			3	8	
012	224b012	MS	QC260714	93629	Soil	11-AUG-2004 19:23	1.0	0.1008	1		3		
013	224b013	MSD	QC260715	93629	Soil	11-AUG-2004 19:51	1.0	0.1006	1		3		
014	224b014	SAMPLE	173892-001 S	93634	Water	11-AUG-2004 20:20	1.0	0.005			3		
015	224b015	SAMPLE	173892-002	93634	Water	11-AUG-2004 20:48	1.0	0.005			3		
016	224b016	SAMPLE	173892-003	93634	Water	11-AUG-2004 21:17	1.0	0.005			3		
017	224b017	SAMPLE	173926-001 S	93671	Soil	11-AUG-2004 21:45	1.0	0.09925			3		
018	224b018	MS	QC260892	93671	Soil	11-AUG-2004 22:14	2.0	0.1004	2		3		
019	224b019	MSD	QC260893	93671	Soil	11-AUG-2004 22:42	2.0	0.1000	1		3		
020	224b020	CCV	mo			11-AUG-2004 23:11	1.0	1.0			3	7	
021	224b021	X	ccv			11-AUG-2004 23:39	1.0					9	
022	224b022	CCV	dsl			12-AUG-2004 00:08	1.0	1.0			3	9	

Stds used: 1=04WS1208 2=04WS1209 3=04WS1210 4=04WS1211 5=04WS1212 6=04WS1012 7=04WS1425 8=04WS1410 9=04WS1324

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174303334 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	210a001	X	ib			28-JUL-2004 15:34	1.0						
002	210a002	ICAL	dsl			28-JUL-2004 16:02	1.0					1	
003	210a003	ICAL	dsl			28-JUL-2004 16:30	1.0					2	
004	210a004	ICAL	dsl			28-JUL-2004 16:59	1.0					3	
005	210a005	ICAL	dsl			28-JUL-2004 17:27	1.0					4	
006	210a006	ICAL	dsl			28-JUL-2004 17:56	1.0					5	
007	210a007	ICAL	dsl			28-JUL-2004 18:24	1.0					6	
008	210a008	ICAL	dsl			28-JUL-2004 18:52	1.0					7	
009	210a009	X	ib			28-JUL-2004 19:21	1.0						
010	210a010	ICV	dsl			28-JUL-2004 19:49	1.0					8	
011	210a011	X	ib			28-JUL-2004 20:17	1.0						
012	210a012	CCV	dsl			28-JUL-2004 20:45	1.0					9	
013	210a013	CCV	mo			28-JUL-2004 21:13	1.0					10	
014	210a014	X	ib			29-JUL-2004 09:07	1.0						
015	210a015	ICAL	dsl5000			29-JUL-2004 09:35	1.0					7	
016	210a016	X	ib			29-JUL-2004 10:43	1.0						
017	210a017	ICV	dsl			29-JUL-2004 11:17	1.0		3			8	

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS0983 9=04WS1144 10=04WS1249

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174333230 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 18-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	231a001	X	primer			18-AUG-2004 09:50	1.0						
002	231a002	X	ib			18-AUG-2004 10:19	1.0						
003	231a003	CCV	dsl			18-AUG-2004 10:47	1.0	1.0			3	1	
004	231a004	CCV	mo			18-AUG-2004 11:16	1.0	1.0			3	2	
005	231a005	BLANK	QC261505 S	93824	Soil	18-AUG-2004 12:19	1.0	0.1006	6		3		
006	231a006	SAMPLE	174034-001 S	93824	Soil	18-AUG-2004 12:48	1.0	0.1008			3		
007	231a007	SAMPLE	174034-002 S	93824	Soil	18-AUG-2004 13:17	1.0	0.09974			3		
008	231a008	LCS	QC261506 S	93824	Soil	18-AUG-2004 14:00	1.0	0.09954			3		
009	231a009	CCV	dsl			18-AUG-2004 14:29	1.0	1.0			3	3	
010	231a010	CCV	mo			18-AUG-2004 14:57	1.0	1.0			3	2	
011	231a011	SAMPLE	173627-006	93784	Water	18-AUG-2004 17:36	1.0	0.005	2		3	sh	
012	231a012	SAMPLE	174023-004	93824	Soil	18-AUG-2004 18:05	1.0	0.1001			3		
013	231a013	SAMPLE	174001-001 S	93824	Soil	18-AUG-2004 18:33	1.0	0.1006	1		3		11:BUNKC:=25805.9
014	231a014	X	ib			18-AUG-2004 19:02	1.0						
015	231a015	SAMPLE	174001-006 S	93824	Soil	18-AUG-2004 19:31	2.0	0.09915	1		3		11:BUNKC:=23232.1
016	231a016	MSS	174001-008 S	93824	Soil	18-AUG-2004 19:59	1.0	0.1004	17	1	3		15:BUNKC:=41549.9
017	231a017	X	ib			18-AUG-2004 20:28	1.0						
018	231a018	SAMPLE	174001-007 S	93824	Soil	18-AUG-2004 20:57	10.0	0.1007	1		3		11:BUNKC:=26469.0
019	231a019	SAMPLE	174001-002 S	93824	Soil	18-AUG-2004 21:26	5.0	0.09968	1		3		11:BUNKC:=24429.4
020	231a020	X	ib			18-AUG-2004 21:54	1.0						
021	231a021	SAMPLE	174001-004 S	93824	Soil	18-AUG-2004 22:23	10.0	0.1001	1		3		11:BUNKC:=23511.6
022	231a022	SAMPLE	174001-005 S	93824	Soil	18-AUG-2004 22:52	10.0	0.09907	1		3		11:BUNKC:=18609.9
023	231a023	X	ib			18-AUG-2004 23:21	1.0						
024	231a024	SAMPLE	174001-003 S	93824	Soil	18-AUG-2004 23:49	10.0	0.09982	1		3		12:BUNKC:=31585.0
025	231a025	CCV	dsl			19-AUG-2004 00:18	1.0	1.0			3	4	
026	231a026	X	dsl			19-AUG-2004 00:47	1.0					4	
027	231a027	CCV	mo			19-AUG-2004 01:15	1.0	1.0			3	2	
028	231a028	CCV	hyfl			19-AUG-2004 01:44	1.0	1.0			3	5	
029	231a029	BLANK	QC261610 S	93849	Soil	19-AUG-2004 02:12	1.0	0.1006	5		3		
030	231a030	SAMPLE	174010-012 S	93849	Soil	19-AUG-2004 02:41	1.0	0.1006	2	1	3		11:BUNKC:=28335.4

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277 5=04WS1014 6=04WS0533 7=04WS0534 8=04WS0535 9=04WS0536 10=04WS0537
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174333230 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 18-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	231a031	SAMPLE	174010-014 S	93849	Soil	19-AUG-2004 03:10	1.0	0.09942			3		
032	231a032	SAMPLE	174010-030 S	93849	Soil	19-AUG-2004 03:38	1.0	0.1001			3		
033	231a033	SAMPLE	174010-031 S	93849	Soil	19-AUG-2004 04:07	1.0	0.1007			3		
034	231a034	SAMPLE	174010-032 S	93849	Soil	19-AUG-2004 04:36	1.0	0.09998			3		
035	231a035	SAMPLE	174010-033 S	93849	Soil	19-AUG-2004 05:04	1.0	0.1001			3	2:BUNKC:=7244.51	
036	231a036	SAMPLE	174010-034 S	93849	Soil	19-AUG-2004 05:33	1.0	0.1009			3		
037	231a037	SAMPLE	174010-035 S	93849	Soil	19-AUG-2004 06:02	5.0	0.1009			3		
038	231a038	SAMPLE	174010-036 S	93849	Soil	19-AUG-2004 06:30	1.0	0.09984			3		
039	231a039	X	ccv			19-AUG-2004 06:59	1.0					1	
040	231a040	CCV	dsl			19-AUG-2004 07:28	1.0	1.0			3	1	
041	231a041	CCV	mo			19-AUG-2004 07:56	1.0	1.0			3	2	
042	231a042	CCV	hyfl			19-AUG-2004 08:25	1.0	1.0			3	5	
043	231a043	SAMPLE	174010-012 S	93849	Soil	19-AUG-2004 10:44	10.0	0.1006			3		
044	231a044	SAMPLE	174023-006	93824	Soil	19-AUG-2004 11:12	10.0	0.09932			3	2:BUNKC:=7777.21	
045	231a045	X,CCV	dsl			19-AUG-2004 13:31	1.0	1.0			3	3	
046	231a046	CCV	mo			19-AUG-2004 14:00	1.0	1.0			3	2	
047	231a047	CCV	hyfl			19-AUG-2004 14:28	1.0	1.0			3	5	
048	231a048	CCV	dsl			19-AUG-2004 14:57	1.0	1.0			3	3	
049	231a049	X	ib			19-AUG-2004 17:21	1.0						
050	231a050	ICAL	hex			19-AUG-2004 17:49	1.0	1.0				6	
051	231a051	ICAL	hex			19-AUG-2004 18:18	1.0	1.0				7	
052	231a052	ICAL	hex			19-AUG-2004 18:46	1.0	1.0				8	
053	231a053	ICAL	hex			19-AUG-2004 19:15	1.0	1.0				9	
054	231a054	ICAL	hex			19-AUG-2004 19:44	1.0	1.0				10	
055	231a055	X	ib			19-AUG-2004 20:12	1.0						

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277 5=04WS1014 6=04WS0533 7=04WS0534 8=04WS0535 9=04WS0536 10=04WS0537
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164334715 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 19-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	232b001	X	primer			19-AUG-2004 10:35	1.0						
002	232b002	X	ib			19-AUG-2004 11:04	1.0						
003	232b003	CCV	dsl			19-AUG-2004 11:33	1.0	1.0			3	1	
004	232b004	CCV	mo			19-AUG-2004 12:01	1.0	1.0			3	2	
005	232b005	SAMPLE	174001-004 S	93824	Soil	19-AUG-2004 12:40	25.0	0.1001			3		
006	232b006	SAMPLE	174001-005 S	93824	Soil	19-AUG-2004 13:09	20.0	0.09907			3		
007	232b007	SAMPLE	174001-002 S	93824	Soil	19-AUG-2004 13:37	20.0	0.09968			3		
008	232b008	MSS	174001-008 S	93824	Soil	19-AUG-2004 14:06	10.0	0.1004	7		3		
009	232b009	CCV	dsl			19-AUG-2004 14:59	1.0	1.0			3	3	
010	232b010	CCV	mo			19-AUG-2004 15:28	1.0	1.0			3	2	
011	232b011	BLANK	QC261805 S	93898	Soil	19-AUG-2004 20:08	1.0	0.1001	7		3		
012	232b012	LCS	QC261806 S	93898	Soil	19-AUG-2004 20:37	1.0	0.1006			3		
013	232b013	MS	QC261807 S	93898	Soil	19-AUG-2004 21:06	1.0	0.1000		1	3		
014	232b014	MSD	QC261808 S	93898	Soil	19-AUG-2004 21:34	1.0	0.0999			3		
015	232b015	SAMPLE	174092-001 S	93898	Soil	19-AUG-2004 22:03	1.0	0.1002			3		
016	232b016	SAMPLE	174092-002 S	93898	Soil	19-AUG-2004 22:32	10.0	0.09956			3		
017	232b017	SAMPLE	174092-003 S	93898	Soil	19-AUG-2004 23:00	10.0	0.09996			3		
018	232b018	SAMPLE	174107-001 S	93898	Soil	19-AUG-2004 23:29	1.0	0.1005			3		
019	232b019	SAMPLE	174107-002 S	93898	Soil	19-AUG-2004 23:58	1.0	0.1002			3		
020	232b020	SAMPLE	174107-003 S	93898	Soil	20-AUG-2004 00:26	1.0	0.1005			3		
021	232b021	X	ccv			20-AUG-2004 00:55	1.0					4	
022	232b022	CCV	dsl			20-AUG-2004 01:24	1.0	1.0			3	4	
023	232b023	CCV	mo			20-AUG-2004 01:52	1.0	1.0			3	2	
024	232b024	MSS	174082-001	93872	Soil	20-AUG-2004 02:21	25.0	0.09923	7		3		
025	232b025	SAMPLE	174083-001	93872	Soil	20-AUG-2004 02:50	1.0	0.1005			3		
026	232b026	SAMPLE	174062-002 S	93861	Water	20-AUG-2004 03:18	1.0	0.005			3		
027	232b027	SAMPLE	174062-003 S	93861	Water	20-AUG-2004 03:47	1.0	0.005			3		
028	232b028	SAMPLE	174062-004 S	93861	Water	20-AUG-2004 04:16	1.0	0.005			3		
029	232b029	MSS	174074-001 S	93898	Soil	20-AUG-2004 04:45	1.0	0.1004	7		3		
030	232b030	SAMPLE	174057-003 S	93861	Water	20-AUG-2004 05:13	1.0	0.005			3		
031	232b031	SAMPLE	174057-004 S	93861	Water	20-AUG-2004 05:42	1.0	0.005			3		

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277 5=04WS1014

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164334715 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 19-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	232b032	SAMPLE	174057-008 S	93861	Water	20-AUG-2004 06:11	1.0	0.005		3		
033	232b033	SAMPLE	174057-010 S	93861	Water	20-AUG-2004 06:40	1.0	0.005		3		
034	232b034	X	ccv			20-AUG-2004 07:08	1.0				1	
035	232b035	CCV	dsl			20-AUG-2004 07:37	1.0	1.0		3	1	
036	232b036	CCV	mo			20-AUG-2004 08:06	1.0	1.0		3	2	
037	232b037	CCV	hyfl			20-AUG-2004 11:19	1.0	1.0		3	5	
038	232b038	SAMPLE	174010-037 S	93872	Soil	20-AUG-2004 12:14	1.0	0.09966		3		
039	232b039	BLANK	QC261708	93872	Soil	20-AUG-2004 12:42	1.0	0.1007	6	3		
040	232b040	BLANK	QC261708 S	93872	Soil	20-AUG-2004 13:11	1.0	0.1007	6	3		
041	232b041	BLANK	QC261661 S	93861	Water	20-AUG-2004 13:40	1.0	0.005	6	3		
042	232b042	CCV	dsl			20-AUG-2004 14:09	1.0	1.0		3	3	
043	232b043	CCV	mo			20-AUG-2004 14:37	1.0	1.0		3	2	
044	232b044	CCV	hyfl			20-AUG-2004 15:06	1.0	1.0		3	5	
045	232b045	SAMPLE	174087-014 S	93872	Soil	20-AUG-2004 16:28	1.0	0.1001		3		
046	232b046	SAMPLE	174087-015 S	93872	Soil	20-AUG-2004 16:57	1.0	0.101		3		
047	232b047	SAMPLE	174056-026 S	93861	Water	20-AUG-2004 17:25	1.0	0.005		3		
048	232b048	SAMPLE	174056-004 S	93872	Soil	20-AUG-2004 17:54	1.0	0.1007		3		
049	232b049	SAMPLE	174056-015 S	93872	Soil	20-AUG-2004 18:23	1.0	0.1004		3		
050	232b050	SAMPLE	174087-016 S	93872	Soil	20-AUG-2004 18:51	1.0	0.1003		3		
051	232b051	SAMPLE	174087-005 S	93872	Soil	20-AUG-2004 19:20	3.0	0.1006		3		
052	232b052	SAMPLE	174056-010 S	93872	Soil	20-AUG-2004 19:49	1.0	0.1002		3		
053	232b053	X	ib			20-AUG-2004 20:17	1.0					
054	232b054	SAMPLE	174087-017 S	93872	Soil	20-AUG-2004 20:46	1.0	0.1006		3		
055	232b055	SAMPLE	174056-025 S	93872	Soil	20-AUG-2004 21:14	4.0	0.09948		3		
056	232b056	X	ib			20-AUG-2004 21:43	1.0					
057	232b057	X	ccv			20-AUG-2004 22:12	1.0				4	
058	232b058	CCV	dsl			20-AUG-2004 22:40	1.0	1.0		3	4	
059	232b059	CCV	mo			20-AUG-2004 23:09	1.0	1.0		3	2	
060	232b060	CCV	hyfl			20-AUG-2004 23:37	1.0	1.0		3	5	
061	232b061	SAMPLE	174040-006 S	93861	Water	21-AUG-2004 00:06	1.0	0.005	1	3		1:HXCS=82.3055
062	232b062	SAMPLE	174060-001 S	93861	Water	21-AUG-2004 00:35	50.0	0.005		3		

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277 5=04WS1014

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164334715 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 19-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
063	232b063	SAMPLE	174056-020 S	93872	Soil	21-AUG-2004 01:03	4.0	0.1005	3		
064	232b064	X	ib			21-AUG-2004 01:32	1.0				
065	232b065	X	ccv			21-AUG-2004 02:01	1.0			1	
066	232b066	CCV	dsl			21-AUG-2004 02:30	1.0	1.0	3	1	
067	232b067	CCV	mo			21-AUG-2004 02:58	1.0	1.0	3	2	
068	232b068	CCV	hyfl			21-AUG-2004 03:27	1.0	1.0	3	5	

30

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277 5=04WS1014

SEQUENCE SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174336103 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 20-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	233a001	X	primer			20-AUG-2004 09:43	1.0				
002	233a002	X	ib			20-AUG-2004 10:11	1.0				
003	233a003	CCV	dsl			20-AUG-2004 10:53	1.0	1.0	3	1	
004	233a004	CCV	mo			20-AUG-2004 11:21	1.0	1.0	3	2	
005	233a005	BS	QC261662 S	93861	Water	20-AUG-2004 12:47	1.0	0.005	3		
006	233a006	BSD	QC261663 S	93861	Water	20-AUG-2004 13:15	1.0	0.005	3		
007	233a007	MS	QC261807 S	93898	Soil	20-AUG-2004 13:44	1.0	0.1000	3		
008	233a008	MSD	QC261808 S	93898	Soil	20-AUG-2004 14:13	1.0	0.0999	3		
009	233a009	SAMPLE	174019-003	93861	Water	20-AUG-2004 14:42	1.0	0.005	3		2:BUNKC:=5761.45
010	233a010	CCV	dsl			20-AUG-2004 15:10	1.0	1.0	3	3	
011	233a011	CCV	mo			20-AUG-2004 15:39	1.0	1.0	3	2	

31

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324

REPORTING SUMMARY FOR 174074 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
174074-001	GC15B	08/20/04 04:45	1.0	+	+	+	
QC261805	GC15B	08/19/04 20:08	1.0	+	+	+	
QC261806	GC15B	08/19/04 20:37	1.0	+		+	
QC261807	GC15B	08/19/04 21:06	1.0				
QC261807	GC17A	08/20/04 13:44	1.0	+		+	
QC261808	GC15B	08/19/04 21:34	1.0				
QC261808	GC17A	08/20/04 14:13	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **20-AUG-2004 10:37**

Batch Number : 93898
Date Extracted: 19-AUG-2004
Extracted by : Sharon L. Karagozlu
Prep Method : SHAKER TABLE

Analysis : TEHM
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1409C
Spike #2 ID : 04WS1464A
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173627-003			QC-PE Samples	Soil	20.07	g	5	0.249128	1		1	0		TEH		
174074-001			Treadwell & Rollo	Soil	49.79	g	5	0.100422	1		1	0		TEHM	3630C	sg,mss
174092-001			URS Corporation	Soil	49.89	g	5	0.100220	1		1	0		TEHM	3630C	sg
174092-002			URS Corporation	Soil	50.22	g	5	0.099562	1		1	0		TEHM	3630C	sg
174092-003			URS Corporation	Soil	50.02	g	5	0.099960	1		1	0		TEHM	3630C	sg
174107-001			URS Corporation	Soil	49.74	g	5	0.100523	1		1	0		TEHM	3630C	sg
174107-002			URS Corporation	Soil	49.92	g	5	0.100160	1		1	0		TEHM	3630C	sg
174107-003			URS Corporation	Soil	49.76	g	5	0.100482	1		1	0		TEHM	3630C	sg
QC261805	MB			Soil	49.95	g	5	0.100100	1		1	0		TEH	3630C	sg
QC261806	LCS			Soil	49.68	g	5	0.100644	1		1	1		TEH	3630C	sg
QC261807	MS	of 174074-001		Soil	49.99	g	5	0.100020	1		1	1		TEH	3630C	sg
QC261808	MSD	of 174074-001		Soil	50.05	g	5	0.099900	1		1	1		TEH	3630C	sg

Prep Chemist: SLK for SLK Reviewed By: Jennifer Doff Date: 8/19/04

Relinquished By: SLK for SLK Received By: [illegible] Date: 8/23/04

Curtis & Tompkins Laboratories **Sample Preparation Summary** **19-AUG-2004 18:00**

Batch Number : 93898
Date Extracted: 19-AUG-2004
Extracted by : Sharon L. Karagozlu
Prep Method : SHAKER TABLE

Analysis : TEHM
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1409C
Spike #2 ID : 04WS1464A
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173627-003			QC-PE Samples	Soil	20.07	g		0.000000	1		1	0		TEH		
174074-001			Treadwell & Rollo	Soil	49.79	g		0.000000	1		1	0		TEHM	3630C	sg,mss
174092-001			URS Corporation	Soil	49.89	g		0.000000	1		1	0		TEHM	3630C	sg
174092-002			URS Corporation	Soil	50.22	g		0.000000	1		1	0		TEHM	3630C	sg
174092-003			URS Corporation	Soil	50.02	g		0.000000	1		1	0		TEHM	3630C	sg
174107-001			URS Corporation	Soil	49.74	g		0.000000	1		1	0		TEHM	3630C	sg
174107-002			URS Corporation	Soil	49.92	g		0.000000	1		1	0		TEHM	3630C	sg
174107-003			URS Corporation	Soil	49.76	g		0.000000	1		1	0		TEHM	3630C	sg
QC261805	MB			Soil	49.95	g		0.000000	1		1	0		TEH	3630C	sg
QC261806	LCS			Soil	49.68	g		0.000000	1		1	1		TEH	3630C	sg
QC261807	MS	of 174074-001		Soil	49.99	g		0.000000	1		1	1		TEH	3630C	sg
QC261808	MSD	of 174074-001		Soil	50.05	g		0.000000	1		1	1		TEH	3630C	sg

Fixed volumes by SFK mmp 8/20/04

Prep Chemist: _____ Reviewed By: Jennifer [illegible] Date: 8/19/04

Relinquished By: _____ Received By: _____ Date: _____

Curtis & Tompkins, Ltd. **TEH 8015 SOIL PREP LOG** BK 1934

Page 91

LIMS Batch No: 93898
LIMS Analysis TEH, TEHM
Extracted by: SK
Date Extracted: 8/19/04

Extraction Method:
☑ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB QC261805	49.95	5.0	X	
LCS 6	49.68			
MS 7	49.99			174074-001
MSD 8	50.05			
173627-003A	20.07			QC-PE SAMPLE
174074-001	49.79		X	MSS
174092-001	49.89			
-002	50.22			
-003	50.02			
174107-001	49.74			*
-002	49.92			
-003	49.76			

SK 8/19/04

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM 43310416	SK 8/19/04
Samples were dried with CH2Cl2-rinsed ~~granular~~ powder Na2SO4	JTB A17H50	
1.0 mL of TEH_SURR surrogate solution was added to all samples	04WS1409C	
1.0 mL of TEH_SP matrix spiking solution was added to all spikes	04WS1464A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM 44184	
Acetone	EM 44085	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	1430/1645 *	
taken off shaker table at:	1630/1845 *	
Extracts filtered through baked, rinsed powdered Na_2SO_4	JTB A17H50	
Concentrated to volumes as noted above	✓	

8/19/04 Continued from page ____
Continued on page ____

8/19/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SUK
Cleanup Date: 8/19/04

Benchbook # **BK 1985**
Page 1

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC261805	93898	1.0	1.0	
LCS 06				
MS 07				
MSD 08				
174074-001				
174092-001				
-002				
-003				
174107-001				
-002				
-003				

SUK 8/19/04

☐ Extracts were cleaned up using C&T assembled ____ g columns
☑ Extracts were cleaned up using 1.0 g cartridges
Extracts were eluted with 20 mL CH_2Cl_2
Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
N/A	SUK 8/19/04
SP 3180	
EM 44095	
✓	

Continued from page ____
Continued on page ____

8/19/04 Jennifer 8/19/04

46
PROJECT Soil Aliquot

Notebook No. BK1979
Continued From Page

Sample Id	Weight(g)	Analysis	Comments
MB	49.95	TEHM	EM43310410
LCS	49.68		↓
MS	49.99		174074-001
MSD	50.05	↓	↓
173627-003A	20.07	TEH	GC-PE Sample
174074-001A	49.79	TEHM	MSS
174092-001A	49.89		
↓ -002B	50.22		
↓ -003C	50.02	↓	
MB	30.43	8270	EM43310410
LCS	29.96		↓
MS	29.70		174074-001
MSD	30.01		↓
174074-001A	29.77		MSS
174092-001A	30.35		
↓ -002B	30.01		
↓ -003C	29.90	↓	
MB	29.74	PCB	EM43310410
LCS	29.79		↓
MS	30.14		174092-003
MSD	30.33		↓
174092-003A	29.97	↓	MSS
MB	30.44	8081	EM43310410
LCS	29.66		↓
MS	29.65		173867-002
MSD	30.46		↓
174092-003A	29.94		
173867-002C	30.38	↓	MSS

SJK 8/19/04

Continued on Page

Read and Understood By

Signed 8/19/04 Date

Signed Date

PROJECT Soil Aeration

SAMPLE ID	WET WEIGHT (g)	ANALYSIS	
MB		TEH m	
LCS			
MS			
MSD			
174107-001 (comp	49.74		(comp A → D
	29.77	8100	comp A → D
174107-002	29.74	8100	
174107-001	29.85	PCB	
-002	30.07		
-001	29.79	8081	
-002	29.94		
-002	49.92	TEH	
-003	49.76		
-003	29.07	PCB	
-003	30.22	8081	
-003	29.510	8100	

8/19/04

Continued on Page

Read and Understood By

Jennifer Dell 8/19/04

Signed Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil SHAKER TABLE

Analyte	Units	GC11A	GC13B	GC15B	GC17A
Diesel C10-C20	mg/Kg		04/12/03 0.16	04/02/04 0.40	03/17/04 0.34
Diesel C10-C22	mg/Kg	04/12/03 0.33	04/12/03 0.16	04/02/04 0.40	03/17/04 0.33
Diesel C10-C24	mg/Kg	04/12/03 0.35	04/12/03 0.17	04/02/04 0.40	03/17/04 0.33
Diesel C10-C28	mg/Kg	04/12/03 0.35	04/12/03 0.19	04/02/04 0.41	03/17/04 0.35
Diesel C12-C28	mg/Kg		04/12/03 0.19		
Diesel C12-C36	mg/Kg	04/12/03 0.38	04/12/03 0.19		
Diesel C12-C32	mg/Kg			04/02/04 0.43	03/17/04 0.37
Diesel C12-C24	mg/Kg	04/12/03 0.34	04/12/03 0.17	04/02/04 0.41	03/17/04 0.33
Diesel C12-C22	mg/Kg	04/12/03 0.32	04/12/03 0.16	04/02/04 0.42	03/17/04 0.33
Motor Oil C20-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.68	03/30/04 0.32
Motor Oil C22-C36	mg/Kg	04/06/04 2.4	04/10/04 0.54	04/10/04 0.71	03/30/04 0.32
Motor Oil C24-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.80	03/30/04 0.30
Motor Oil C22-C32	mg/Kg	04/06/04 2.6	04/10/04 0.64	04/10/04 0.54	03/30/04 0.31
Hexacosane	mg/Kg	09/20/03 0.17	08/15/03 0.11	08/16/03 0.069	09/05/03 0.17

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB081804A	Batch#:	93878
Lab ID:	174074-002	Sampled:	08/18/04
Matrix:	Water	Received:	08/18/04
Units:	ug/L	Analyzed:	08/19/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB081804A	Batch#:	93878
Lab ID:	174074-002	Sampled:	08/18/04
Matrix:	Water	Received:	08/18/04
Units:	ug/L	Analyzed:	08/19/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-120
1,2-Dichloroethane-d4	85	80-120
Toluene-d8	95	80-120
Bromofluorobenzene	118	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261731	Batch#:	93878
Matrix:	Water	Analyzed:	08/19/04
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261731	Batch#:	93878
Matrix:	Water	Analyzed:	08/19/04
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-120
1,2-Dichloroethane-d4	84	80-120
Toluene-d8	95	80-120
Bromofluorobenzene	115	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	93878
Units:	ug/L	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: BS Lab ID: QC261729

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	44.92	90	75-120
Benzene	50.00	48.88	98	79-120
Trichloroethene	50.00	47.49	95	79-120
Toluene	50.00	48.17	96	80-120
Chlorobenzene	50.00	48.02	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-120
1,2-Dichloroethane-d4	85	80-120
Toluene-d8	95	80-120
Bromofluorobenzene	107	80-122

Type: BSD Lab ID: QC261730

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	42.58	85	75-120	5	20
Benzene	50.00	47.09	94	79-120	4	20
Trichloroethene	50.00	45.94	92	79-120	3	20
Toluene	50.00	47.16	94	80-120	2	20
Chlorobenzene	50.00	47.05	94	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-120
1,2-Dichloroethane-d4	86	80-120
Toluene-d8	96	80-120
Bromofluorobenzene	104	80-122

RPD= Relative Percent Difference

Data File: [illegible]

Date : 11-JUN-2004 17:29

Client ID: bfb tune std

Sample Info: BF3.04WS0483

Volume Injected (uL): 1.0

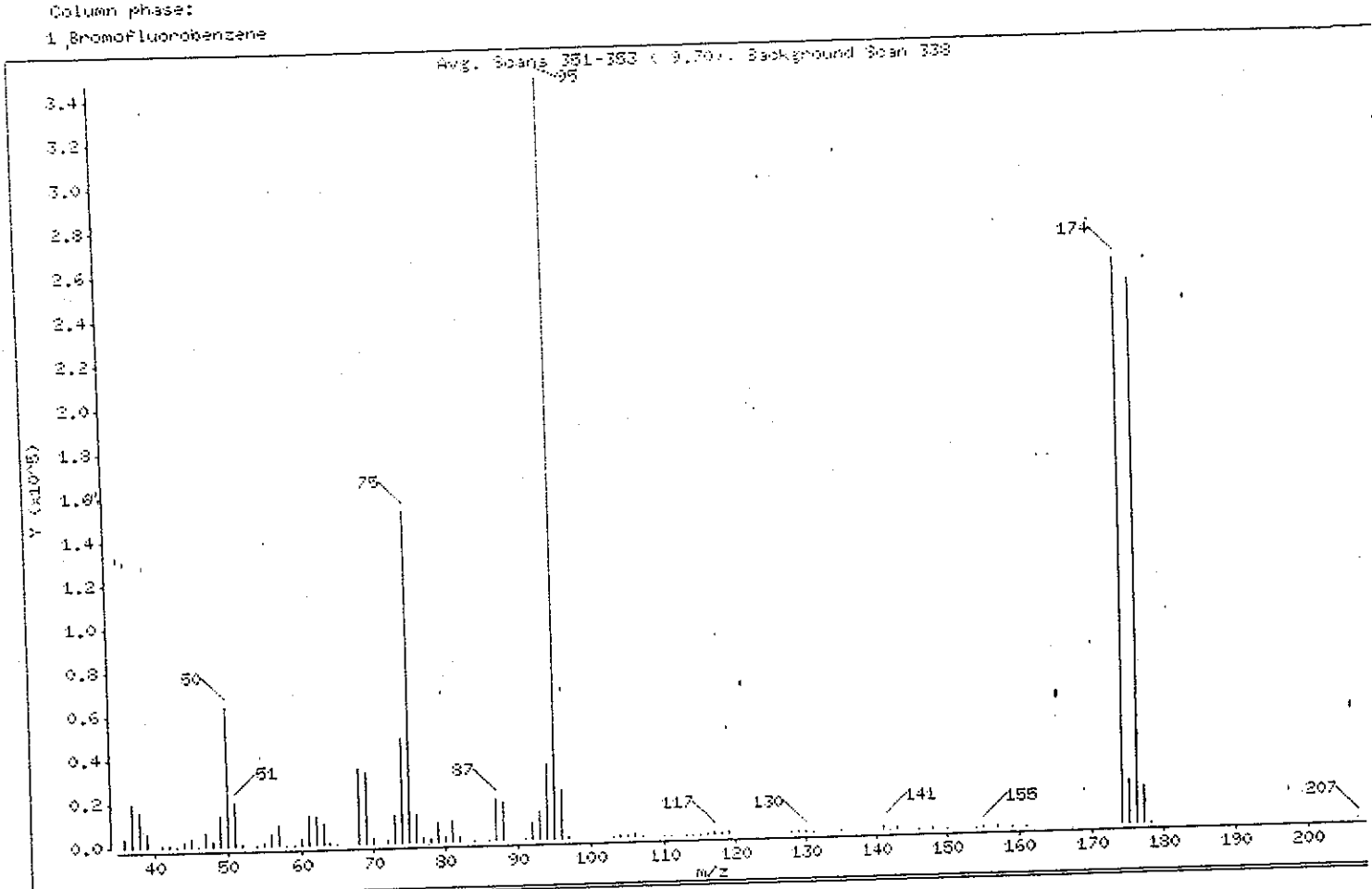
Column phase:

1 Bromofluorobenzene

Instrument: MSWD410.i

Operator: WDC

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.40
75	30.00 - 60.00% of mass 95	43.83
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	74.46
175	5.00 - 9.00% of mass 174	5.67 (7.61)
176	95.01 - 100.99% of mass 174	71.59 (96.14)
177	5.00 - 9.00% of mass 176	4.73 (6.61)

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\081904.b\JHJ01.D

Date : 19-AUG-2004 09:41

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,04WS1238

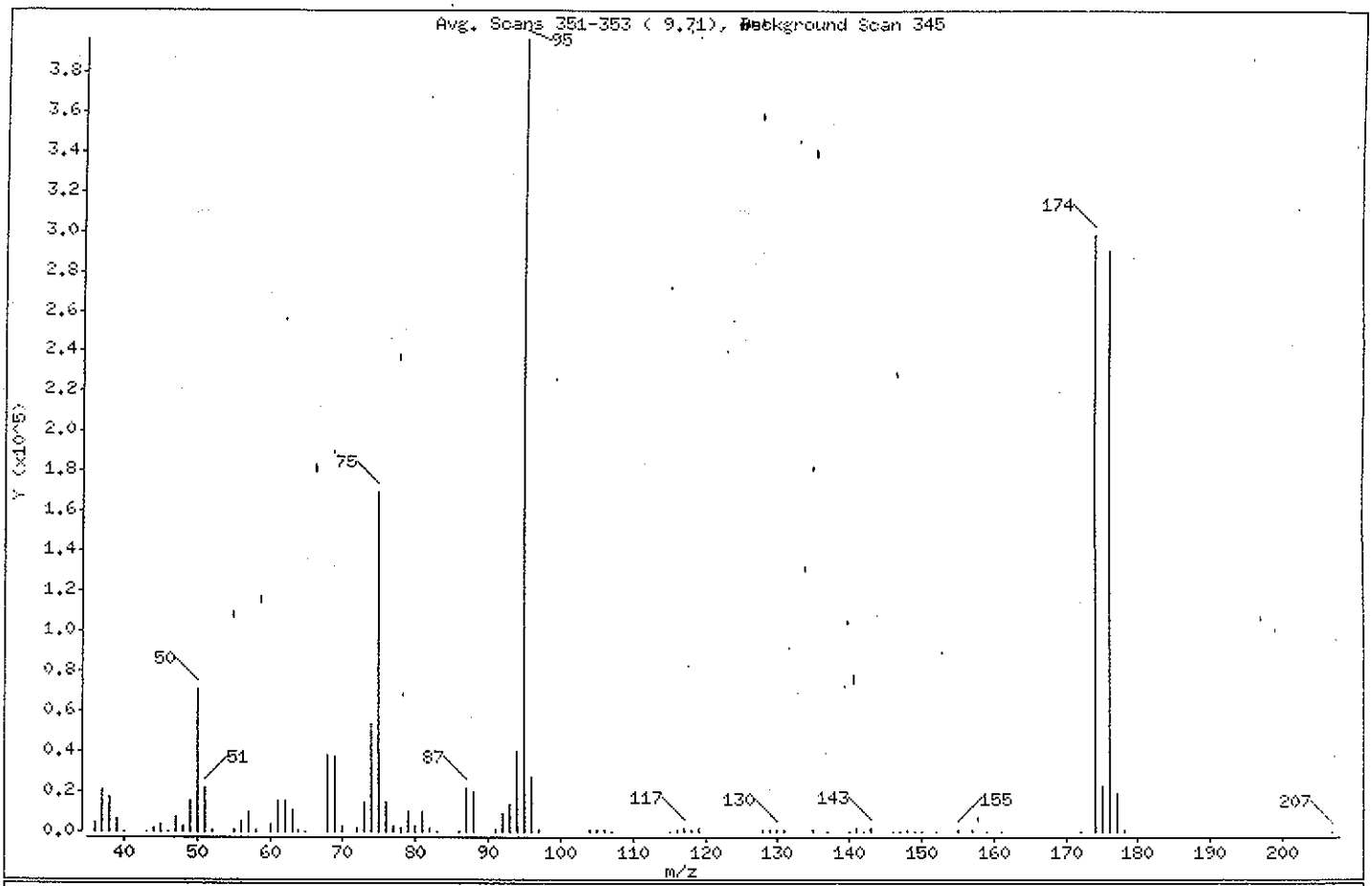
Volume Injected (uL): 1.0

Operator: WOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.01
75	30.00 - 60.00% of mass 95	42.74
96	5.00 - 9.00% of mass 95	6.83
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	75.43
175	5.00 - 9.00% of mass 174	5.73 (7.60)
176	95.01 - 100.99% of mass 174	73.43 (97.34)
177	5.00 - 9.00% of mass 176	4.88 (6.65)

8/20/04

8/19/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494235371003 Name: 826GOX10 Type: WATER Date: 11-JUN-2004 19:34 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	jfb14	494235371014	0.5/1PPB	11-JUN-2004 19:34	04SS200 (500000X), 04WS0984A (500000X), 04WS1033A (1000000X), 04WS0985A (5000X)
2	jfb15	494235371015	5PPB	11-JUN-2004 20:09	04SS200 (100000X), 04WS0984A (50000X), 04WS1033A (200000X), 04WS0985A (5000X)
3	jfb16	494235371016	10PPB	11-JUN-2004 20:45	04SS200 (50000X), 04WS0984A (25000X), 04WS1033A (100000X), 04WS0985A (5000X)
4	jfb17	494235371017	20PPB	11-JUN-2004 21:21	04SS200 (25000X), 04WS0984A (12500X), 04WS1033A (50000X), 04WS0985A (5000X)
5	jfb18	494235371018	50PPB	11-JUN-2004 21:57	04SS200 (10000X), 04WS0984A (5000X), 04WS1033A (20000X), 04WS0985A (5000X)
6	jfb19	494235371019	100PPB	11-JUN-2004 22:32	04SS200 (5000X), 04WS0984A (2500X), 04WS1033A (10000X), 04WS0985A (5000X)
7	jfb20	494235371020	200PPB	11-JUN-2004 23:09	04SS200 (2500X), 04SS83 (2500X), 04WS1033A (5000X), 04WS0985A (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
																	r^2		
Freon 12	0.2482	0.4149	0.4381	0.4488	0.4891	0.4909	0.4802	LINR	R	0.452336	2.066500		ug/L	0.4300	1.000	0.0500	0.99	15	
Chloromethane	0.5404m	0.5690	0.5260	0.5106	0.5362	0.5234	0.4813	AVRG	R		1.898642		ug/L	0.5267	5	0.1000	0.99	15	
Vinyl Chloride	0.3403m	0.4177	0.4219	0.4225	0.4455	0.4423	0.4216	AVRG	R		2.403984		ug/L	0.4160	8	0.0500	0.99	15	
Bromomethane	0.1570	0.2364	0.2073	0.2396	0.2648	0.2734	0.2928	QUAD	R	1.132232	3.812877	-0.00712	ug/L	0.2388	1.000	0.0500	0.99	15	
Chloroethane	0.2501m	0.2919	0.2671	0.2599m	0.2738	0.2700	0.2686	AVRG	R		3.720630		ug/L	0.2688	5	0.0500	0.99	15	
Trichlorofluoromethane	0.2421	0.3583	0.3697	0.3706	0.3972	0.3982	0.3904	AVRG	R		2.770797		ug/L	0.3609	15	0.0500	0.99	15	
Acetone	0.4274	0.1875	0.1309	0.1273	0.1148	0.1031		QUAD	R	-1.47238	7.909435	0.187498	ug/L	0.1818	1.000	0.0500	0.99	15	
Freon 113	0.1965	0.2294	0.1979	0.2680	0.2837	0.2805		LINR	R	1.193495	3.509225		ug/L	0.2427	0.999	0.0500	0.99	15	
1,1-Dichloroethene	0.2041	0.2514	0.2246	0.2601	0.2731	0.2648	0.2591	AVRG	R		4.029624		ug/L	0.2482	10	0.0500	0.99	15	
Methylene Chloride	0.3432	0.3882	0.3357	0.3332	0.3354	0.3295		AVRG	R		2.905303		ug/L	0.3442	6	0.0500	0.99	15	
Carbon Disulfide	0.9939	1.0983	0.9429	1.0649	1.1062	1.0741		AVRG	R		0.955377		ug/L	1.0467	6	0.0500	0.99	15	
MTBE	0.8262	1.0493	0.8862	0.8891	0.8671	0.8587	0.7795	AVRG	R		1.137096		ug/L	0.8794	10	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.3131	0.3185	0.2848	0.2915	0.2973	0.2927		AVRG	R		3.337467		ug/L	0.2996	4	0.0500	0.99	15	
Vinyl Acetate		1.2015	0.9873	1.0446	0.9650	0.9751		AVRG	R		0.966464		ug/L	1.0347	9	0.0500	0.99	15	
1,1-Dichloroethane	0.5115	0.6095	0.5282	0.5347	0.5376	0.5244		AVRG	R		1.848496		ug/L	0.5410	6	0.1000	0.99	15	
2-Butanone	0.2543	0.2443	0.1880	0.1867	0.1731	0.1695		QUAD	R	-1.04828	5.713844	0.014849	ug/L	0.2027	1.000	0.0500	0.99	15	
2,2-Dichloropropane	0.3328	0.3869	0.3306	0.3600	0.3663	0.3634		AVRG	R		2.803572		ug/L	0.3567	6	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.3301	0.3538	0.3096	0.3072	0.3096	0.3052		AVRG	R		3.132412		ug/L	0.3192	6	0.0500	0.99	15	

SCAL-6,000 – Reprocessed for MeCl2 down to 0.5 ppb as of 8/4/01
(for inc. int. by Target)

ICV- 2 Chlor, Cyclohex + A.C. B. Lint - F.21

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

8/4/01

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494235371003 Name: 826GOX10 Type: WATER Date: 11-JUN-2004 19:34 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	minRF	MnR^2	MxRSD	Flags
Chloroform	0.5176	0.5534	0.4905	0.4792	0.4809	0.4708		AVRG	R		2.005047		ug/L	0.4987	6	0.0500	0.99	15	
Bromochloromethane	0.1490	0.1928	0.1600	0.1626	0.1614	0.1597		AVRG	R		6.087966		ug/L	0.1643	9	0.0500	0.99	15	
1,1,1-Trichloroethane	0.2947	0.3547	0.3118	0.3483	0.3590	0.3528		AVRG	R		2.968259		ug/L	0.3369	8	0.0500	0.99	15	
1,1-Dichloropropene	0.1990m	0.2249	0.1916	0.2231	0.2281	0.2249		AVRG	R		4.645188		ug/L	0.2153	7	0.0500	0.99	15	
Carbon Tetrachloride	0.1390	0.1649	0.1439	0.1726	0.1788	0.1783		AVRG	R		6.138553		ug/L	0.1629	11	0.0500	0.99	15	
1,2-Dichloroethane	0.2051	0.2624	0.2287	0.2266	0.2264	0.2240	0.2167	AVRG	R		4.402580		ug/L	0.2271	8	0.0500	0.99	15	
Benzene	0.6610	0.7562	0.6516	0.6583	0.6642	0.6457	0.6197	AVRG	R		1.503225		ug/L	0.6652	6	0.0500	0.99	15	
Trichloroethene	0.1551	0.1792	0.1578	0.1662	0.1686	0.1657	0.1598	AVRG	R		6.074511		ug/L	0.1646	5	0.0500	0.99	15	
1,2-Dichloropropane	0.1986	0.2330	0.2012	0.1977	0.1956	0.1901		AVRG	R		4.933371		ug/L	0.2027	8	0.0500	0.99	15	
Bromodichloromethane	0.1721	0.2289	0.1966	0.1985	0.2001	0.2017		AVRG	R		5.008891		ug/L	0.1996	9	0.0500	0.99	15	
Dibromomethane	0.1108	0.1509	0.1266	0.1295	0.1259	0.1251		AVRG	R		7.804745		ug/L	0.1281	10	0.0500	0.99	15	
2-Chloroethylvinylether		0.0852	0.0694	0.0735	0.0688	0.0728		AVRG	R		13.52456		ug/L	0.0739	9	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.3066	0.2397	0.2543	0.2277	0.2177		AVRG	R		4.012612		ug/L	0.2492	14	0.0500	0.99	15	
Tetramethyl THF	0.4389	0.5069	0.4179	0.4035	0.3795	0.3872		AVRG	R		2.367941		ug/L	0.4223	11	0.0500	0.99	15	
cis-1,3 Dichloropropene	0.2436	0.3238	0.2765	0.2768	0.2759	0.2762		AVRG	R		3.586917		ug/L	0.2788	9	0.0500	0.99	15	
Toluene	0.5781	0.4571	0.3784	0.3845	0.3839	0.3758	0.3627	QUAD	R	-0.24287	2.572209	0.002589	ug/L	0.4172	1.000	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.2248	0.2948	0.2433	0.2434	0.2471	0.2454		AVRG	R		4.003182		ug/L	0.2498	9	0.0500	0.99	15	
1,1,2-Trichloroethane	0.0715	0.1097	0.0891	0.0906	0.0895	0.0881		AVRG	R		11.14527		ug/L	0.0897	14	0.0500	0.99	15	
2-Hexanone	0.2676	0.2464	0.1850	0.1889	0.1666	0.1634		QUAD	R	-1.31473	5.880196	0.020318	ug/L	0.2030	0.999	0.0500	0.99	15	
1,3-Dichloropropane	0.3333	0.4261	0.3453	0.3548	0.3443	0.3403		AVRG	R		2.798209		ug/L	0.3574	10	0.0500	0.99	15	
Tetrachloroethene	0.1819	0.1926	0.1598	0.1863	0.1878	0.1862	0.1826	AVRG	R		5.480840		ug/L	0.1825	6	0.0500	0.99	15	
Dibromochloromethane	0.1732	0.2399	0.2036	0.2106	0.2119	0.2154		AVRG	R		4.782223		ug/L	0.2091	10	0.0500	0.99	15	
1,2-Dibromoethane	0.1481	0.2110	0.1744	0.1720	0.1710	0.1719		AVRG	R		5.723457		ug/L	0.1747	12	0.0500	0.99	15	
Chlorobenzene	0.4809	0.5856	0.5061	0.5077	0.4999	0.4930		AVRG	R		1.952381		ug/L	0.5122	7	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.1502	0.1921	0.1661	0.1710	0.1679	0.1706		AVRG	R		5.894870		ug/L	0.1696	8	0.0500	0.99	15	
Ethylbenzene	0.9053	0.9812	0.8205	0.8643	0.8669	0.8445	0.8069	AVRG	R		1.149513		ug/L	0.8699	7	0.0500	0.99	15	
m,p-Xylenes	0.3380	0.3463	0.2687	0.2894	0.2873	0.2795	0.2625	AVRG	R		3.379058		ug/L	0.2959	11	0.0500	0.99	15	
o-Xylene	0.3053	0.3400	0.2632	0.2785	0.2744	0.2675	0.2735	AVRG	R		3.495922		ug/L	0.2860	10	0.0500	0.99	15	
Styrene	0.4483	0.5968	0.4662	0.4982	0.4862	0.4758		AVRG	R		2.019136		ug/L	0.4953	11	0.0500	0.99	15	
Bromoform	0.1622	0.1698	0.1385	0.1482	0.1466	0.1498		AVRG	R		6.556988		ug/L	0.1525	7	0.1000	0.99	15	
Isopropylbenzene	1.5563	1.9151	1.6968	1.8068	1.8263	1.7701		AVRG	R		0.567565		ug/L	1.7619	7	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494235371003 Name: 826GQX10 Type: WATER Date: 11-JUN-2004 19:34 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.6035	0.8256	0.7268	0.7272	0.6821	0.6667		AVRG	R		1.417829		ug/L	0.7053	11	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1312	0.1963	0.1775	0.1747	0.1601	0.1561		AVRG	R		6.025126		ug/L	0.1660	13	0.0500	0.99	15	
Propylbenzene	1.8441	2.2973	1.9133	2.1090	2.1060	2.0456		AVRG	R		0.487199		ug/L	2.0526	8	0.0500	0.99	15	
Bromobenzene	0.4316	0.5606	0.5340	0.5096	0.5113	0.5016		AVRG	R		1.968161		ug/L	0.5081	9	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.0024	1.2348	0.9448	1.0118	1.0193	1.0155		AVRG	R		0.963303		ug/L	1.0381	10	0.0500	0.99	15	
2-Chlorotoluene	1.1778	1.4493	1.2854	1.2886	1.2888	1.2480		AVRG	R		0.775393		ug/L	1.2897	7	0.0500	0.99	15	
4-Chlorotoluene	1.2179	1.4400	1.2184	1.2320	1.2397	1.2188		AVRG	R		0.792946		ug/L	1.2611	7	0.0500	0.99	15	
tert-Butylbenzene	0.9402	1.2254	1.0230	1.1124	1.1218	1.0846		AVRG	R		0.922030		ug/L	1.0846	9	0.0500	0.99	15	
1,2,4-Trimethylbenzene	0.9492	1.1443	0.8767	0.9161	0.9185	0.9179		AVRG	R		1.048454		ug/L	0.9538	10	0.0500	0.99	15	
sec-Butylbenzene	1.3965	1.7935	1.4466	1.7030	1.6904	1.6677		AVRG	R		0.618702		ug/L	1.6163	10	0.0500	0.99	15	
para-Isopropyl Toluene	0.9913	1.3251	1.0242	1.1445	1.1672	1.1552		AVRG	R		0.881389		ug/L	1.1346	10	0.0500	0.99	15	
1,3-Dichlorobenzene	0.7683	0.8949	0.7721	0.7817	0.7687	0.7526		AVRG	R		1.266263		ug/L	0.7897	7	0.0500	0.99	15	
1,4-Dichlorobenzene	0.7965	0.9026	0.7531	0.7695	0.7567	0.7462		AVRG	R		1.269952		ug/L	0.7874	8	0.0500	0.99	15	
n-Butylbenzene	0.8704	1.1453	0.8341	0.9662	0.9820	0.9824		AVRG	R		1.037963		ug/L	0.9634	11	0.0500	0.99	15	
1,2-Dichlorobenzene	0.6641	0.8837	0.7284	0.7351	0.7328	0.7193		AVRG	R		1.344286		ug/L	0.7439	10	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1124	0.1289	0.1130	0.1085	0.1011	0.0995		AVRG	R		9.043351		ug/L	0.1106	10	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.2974	0.3367	0.2379	0.2476	0.2367	0.2428		AVRG	R		3.752189		ug/L	0.2665	15	0.0500	0.99	15	
Hexachlorobutadiene	0.2015	0.2115	0.1751	0.2037	0.2035	0.2112		AVRG	R		4.972670		ug/L	0.2011	7	0.0500	0.99	15	
Naphthalene	0.5830	0.6740	0.4663	0.5013	0.4495	0.4661		LINR	R	-0.80142	2.176510		ug/L	0.5234	0.999	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.2998	0.3107	0.2097	0.2270	0.2082	0.2207		LINR	R	-0.32565	4.592043		ug/L	0.2460	0.998	0.0500	0.99	15	
tert-Butyl Alcohol (TBA)	0.0273	0.0337	0.0260	0.0271	0.0246	0.0246		AVRG	R		36.74849		ug/L	0.0272	12	0.0050	0.99	15	
Isopropyl Ether (DIPE)	1.1062	1.4037	1.2136	1.2079	1.1986	1.1737		AVRG	R		0.821506		ug/L	1.2173	8	0.0500	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	0.8802	1.1199	0.9518	0.9469	0.9424	0.9368		AVRG	R		1.038431		ug/L	0.9630	8	0.0500	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.4861	0.6385	0.5312	0.5338	0.5223	0.5212		AVRG	R		1.855820		ug/L	0.5388	10	0.0500	0.99	15	
Cyclohexanone	0.0586	0.0933	0.0824	0.0772	0.0716	0.0607		QUAD	R	3.107778	10.71745	0.093288	ug/L	0.0740	1.000	0.0050	0.99	15	
Ethanol		0.0058	0.0044	0.0046	0.0046	0.0045		AVRG	R		209.1154		ug/L	0.0048	12	5.0E-4	0.99	15	
Isopropanol		0.0331	0.0250	0.0241	0.0215	0.0216		LINR	R	-23.0870	47.51127		ug/L	0.0251	1.000	0.0050	0.99	15	
Tetrahydrofuran	0.1185	0.1386	0.1068	0.1069	0.0936	0.0903		QUAD	R	-11.9394	10.19304	0.011467	ug/L	0.1091	0.999	0.0050	0.99	15	
Dibromofluoromethane	0.6027	0.5931	0.6070	0.6001	0.6025	0.6018	0.5989	AVRG	R		1.664226		ug/L	0.6009	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.3786	0.3792	0.3785	0.3754	0.3741	0.3734	0.3696	AVRG	R		2.662828		ug/L	0.3755	1	0.0500	0.99	15	
Trifluorotoluene	0.1795	0.2273	0.1903	0.2323	0.2422	0.2384		AVRG	R		4.579722		ug/L	0.2184	12	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494235371003 Name: 826GQX10 Type: WATER Date: 11-JUN-2004 19:34 Inj Vol (uL): 500

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Toluene-d8	1.0288	1.0416	1.0364	1.0232	1.0247	1.0257	1.0282	AVRG	R		0.971073		ug/L	1.0298	1	0.0500	0.99	15	
Bromofluorobenzene	1.1945	1.2045	1.3216	1.2755	1.2816	1.2681	1.2343	AVRG	R		0.797251		ug/L	1.2543	4	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB14.D
Report Date: 04-Aug-2004 11:12

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB14.D
Client Smp ID: DYNA P&T
Lab Smp Id: bfb SW846 2/88
MS Autotune Date: 19-DEC-2003 16:05
Inj Date : 11-JUN-2004 19:34
Inst ID: MSVOA10.i
Operator : VOC
Smp Info : ICAL,04WS200,0.002/1000,04WS0984A,0.002/1000
Misc Info : 04WS1033A,0.001/1000, 0.5/1PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\826GOX10.m
Meth Date : 04-Aug-2004 11:07 target
Quant Type: ISTD
Cal Date : 11-JUN-2004 19:34
Cal File: JFB14.D
Calibration Sample, Level: 7
Als bottle: 14
Dil Factor: 1.00000
Compound Sublist: all.sub
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.791	4.791	(0.430)	8777	1.00000	0.9652
2 Chloromethane	50	5.274	5.284	(0.474)	19110	1.00000	1.0261(M)
3 Vinyl Chloride	62	5.452	5.452	(0.490)	12032	1.00000	0.8180(M)
4 Bromomethane	94	6.102	6.112	(0.548)	5552	1.00000	1.7307
5 Chloroethane	64	6.260	6.270	(0.562)	8845	1.00000	0.9306(M)
6 Trichlorofluoromethane	101	6.704	6.714	(0.602)	8559	1.00000	0.6706
7 Ethanol	45	6.862	6.861	(0.616)	8448	50.0000	49.9611(M)
8 Freon 113	101	7.492	7.512	(0.673)	3474	0.50000	1.5382
9 Acetone	43	7.532	7.532	(0.677)	7556	0.50000	0.2263
10 1,1-Dichloroethene	96	7.542	7.552	(0.678)	3608	0.50000	0.4111
11 Isopropanol	45	7.650	7.640	(0.687)	21004	5.00000	5.1351(M)
12 Carbon Disulfide	76	7.985	8.015	(0.717)	17572	0.50000	0.4747
13 Methylene Chloride	84	8.261	8.271	(0.742)	6067	0.50000	0.4984
14 tert-Butyl Alcohol (TBA)	59	8.271	8.271	(0.743)	4828	5.00000	5.0176
15 MTBE	73	8.675	8.685	(0.779)	14607	0.50000	0.4697
16 trans-1,2-Dichloroethene	96	8.725	8.735	(0.784)	5535	0.50000	0.5224
17 Vinyl Acetate	43	9.375	9.385	(0.842)	13497	0.50000	0.3689
18 1,1-Dichloroethane	63	9.425	9.425	(0.847)	9043	0.50000	0.4727
19 Isopropyl Ether (DIPE)	45	9.435	9.454	(0.848)	19558	0.50000	0.4543
20 Ethyl tert-Butyl Ether (ETBE)	59	10.046	10.056	(0.903)	15561	0.50000	0.4569
22 cis-1,2-Dichloroethene	96	10.391	10.391	(0.934)	5836	0.50000	0.5169
23 2,2-Dichloropropane	77	10.420	10.440	(0.936)	5884	0.50000	0.4665

2-Hexanone integrated response ↓
what target will quantitate
08/04/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB14.D
Report Date: 04-Aug-2004 11:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
24 Bromochloromethane	128	10.815	10.815	(0.972)	2635	0.50000	0.4536
25 Chloroform	83	10.874	10.884	(0.977)	9151	0.50000	0.5189
* 27 Pentafluorobenzene	168	11.130	11.140	(1.000)	1767981	50.0000	
$ 28 Dibromofluoromethane	113	11.160	11.160	(1.003)	1065620	50.0000	50.1541
29 1,1,1-Trichloroethane	97	11.298	11.317	(1.015)	5211	0.50000	0.4374
30 1,1-Dichloropropene	75	11.574	11.584	(0.927)	5865	0.50000	0.4622(M)
31 Carbon Tetrachloride	117	11.613	11.623	(0.930)	4095	0.50000	0.4264
$ 32 1,2-Dichloroethane-d4	65	11.781	11.781	(0.944)	1115851	50.0000	50.4136
33 1,2-Dichloroethane	62	11.919	11.909	(0.955)	6045	0.50000	0.4515
34 Benzene	78	11.948	11.958	(0.957)	19479	0.50000	0.4968
35 Methyl tert-Amyl Ether (TAME)	73	12.017	12.027	(0.963)	14325	0.50000	0.4510
* 36 1,4-Difluorobenzene	114	12.481	12.491	(1.000)	2946942	50.0000	
37 Trichloroethene	95	13.013	13.023	(1.043)	4570	0.50000	0.4710
38 1,2-Dichloropropane	63	13.398	13.407	(1.073)	5854	0.50000	0.4899
$ 39 Trifluorotoluene	146	13.398	13.407	(1.073)	5290	0.50000	0.4110
40 Dibromomethane	93	13.614	13.614	(1.091)	3264	0.50000	0.4322
41 Bromodichloromethane	83	13.822	13.831	(1.107)	5073	0.50000	0.4311
42 2-Chloroethylvinylether	63	14.255	14.255	(1.142)	3521	0.50000	0.8079
43 cis-1,3-Dichloropropene	75	14.610	14.610	(1.171)	7179	0.50000	0.4369
44 Tetramethyl THF	43	14.728	14.728	(1.180)	12933	0.50000	0.5195
45 4-Methyl-2-Pentanone	43	14.797	14.797	(1.186)	5853	0.50000	0.3984
$ 46 Toluene-d8	98	15.143	15.142	(1.213)	3031691	50.0000	49.9499
47 Toluene	92	15.261	15.271	(1.223)	17037	0.50000	0.5008
48 trans-1,3-Dichloropropene	75	15.557	15.547	(1.246)	6626	0.50000	0.4500
49 1,1,2-Trichloroethane	85	15.921	15.911	(1.276)	2106	0.50000	0.3982
50 1,3-Dichloropropane	76	16.237	16.237	(0.914)	7903	0.50000	0.4663
52 Tetrachloroethene	166	16.286	16.286	(0.917)	4312	0.50000	0.4983
53 Dibromochloromethane	129	16.680	16.680	(0.939)	4106	0.50000	0.4140
54 1,2-Dibromoethane	107	16.947	16.947	(1.358)	4365	0.50000	0.4238
* 55 Chlorobenzene-d5	117	17.755	17.755	(1.000)	2370945	50.0000	
56 Chlorobenzene	112	17.804	17.814	(1.003)	11401	0.50000	0.4694
57 1,1,1,2-Tetrachloroethane	131	17.923	17.913	(1.009)	3561	0.50000	0.4426
58 Ethylbenzene	91	17.952	17.962	(1.011)	21463	0.50000	0.5202
59 m,p-Xylenes	106	18.159	18.159	(1.023)	16026	1.00000	1.1420
60 o-Xylene	106	18.899	18.889	(1.064)	7238	0.50000	0.5336
61 Styrene	104	18.899	18.898	(1.064)	10630	0.50000	0.4526
62 Bromoform	173	19.283	19.283	(1.086)	3845	0.50000	0.5316
63 Isopropylbenzene	105	19.529	19.529	(0.891)	16433	0.50000	0.4416
64 Cyclohexanone	55	19.727	19.727	(0.900)	6184	5.00000	6.2541
$ 65 Bromofluorobenzene	95	19.835	19.835	(0.905)	1261273	50.0000	47.6153
66 1,1,2,2-Tetrachloroethane	83	20.003	20.003	(0.912)	6372	0.50000	0.4278
67 1,2,3-Trichloropropane	110	20.131	20.121	(0.918)	1385	0.50000	0.3951
68 Bromobenzene	156	20.170	20.160	(0.920)	4557	0.50000	0.4247
69 Propylbenzene	91	20.269	20.269	(0.924)	19472	0.50000	0.4492
70 2-Chlorotoluene	91	20.476	20.476	(0.934)	12437	0.50000	0.4566
71 1,3,5-Trimethylbenzene	105	20.555	20.555	(0.938)	10584	0.50000	0.4827
72 4-Chlorotoluene	91	20.663	20.663	(0.942)	12860	0.50000	0.4828
73 tert-Butylbenzene	119	21.176	21.166	(0.966)	9928	0.50000	0.4334
74 1,2,4-Trimethylbenzene	105	21.245	21.245	(0.969)	10023	0.50000	0.4976
75 sec-Butylbenzene	105	21.560	21.560	(0.983)	14746	0.50000	0.4320
76 para-Isopropyl Toluene	119	21.787	21.787	(0.994)	10467	0.50000	0.4368
77 1,3-Dichlorobenzene	146	21.826	21.817	(0.996)	8113	0.50000	0.4864
* 78 1,4-Dichlorobenzene-d4	152	21.925	21.925	(1.000)	1055910	50.0000	
79 1,4-Dichlorobenzene	146	21.964	21.964	(1.002)	8410	0.50000	0.5057

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB14.D
Report Date: 04-Aug-2004 11:12

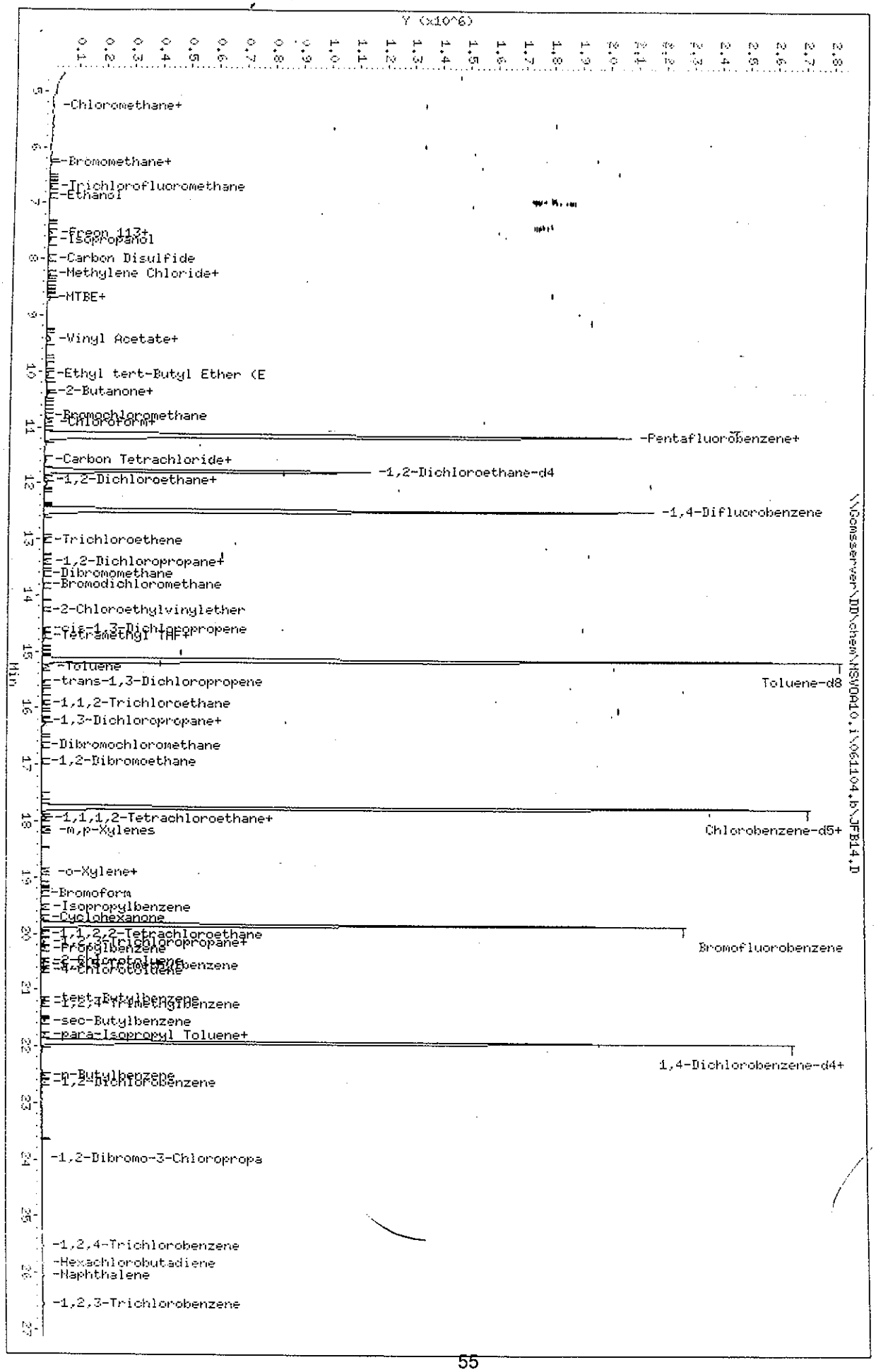
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
80 n-Butylbenzene	91	22.517	22.516	(1.027)	9191	0.50000	0.4517
81 1,2-Dichlorobenzene	146	22.645	22.645	(1.033)	7012	0.50000	0.4463
82 1,2-Dibromo-3-Chloropropane	75	23.995	23.976	(1.094)	1187	0.50000	0.5083
83 1,2,4-Trichlorobenzene	180	25.523	25.523	(1.164)	3140	0.50000	0.5579
84 Hexachlorobutadiene	225	25.829	25.819	(1.178)	2128	0.50000	0.5010
86 1,2,3-Trichlorobenzene	180	26.549	26.539	(1.211)	3166	0.50000	0.3627

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSV0A10.i\061104.b\JFB14.D
Date : 11-JUN-2004 19:34
Client ID: D'NA P&T
Sample Info: ICAL,04HS200,0.002/1000,04HS0984A,0.002/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSV0A10.i
Operator: WOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB15.D
Report Date: 04-Aug-2004 11:12

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB15.D
Lab Smp Id: bfb SW846 2/88 — Client Smp ID: DYNA P&T
Inj Date : 11-JUN-2004 20:09 — MS Autotune Date: 19-DEC-2003
Operator : VOC — Inst ID: MSVOA10.i
Smp Info : ICAL,04WS200,0.005/500,04WS0984A,0.01/500
Misc Info : 04WS1033A,0.0025/500, 5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\826GOX10.m — Quant Type: ISTD
Meth Date : 04-Aug-2004 11:07 target — Cal File: JFB15.D
Cal Date : 11-JUN-2004 20:09 — Calibration Sample,,Level: 6
Als bottle: 15
Dil Factor: 1.00000 — Compound Sublist: all.sub
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.790	4.791	(0.430)	73461	5.00000	4.7394
2 Chloromethane	50	5.293	5.284	(0.475)	100733	5.00000	5.4012
3 Vinyl Chloride	62	5.441	5.452	(0.488)	73961	5.00000	5.0212
4 Bromomethane	94	6.111	6.112	(0.549)	41863	5.00000	5.6300
5 Chloroethane	64	6.269	6.270	(0.563)	51684	5.00000	5.4306
6 Trichlorofluoromethane	101	6.703	6.714	(0.602)	63430	5.00000	4.9633
7 Ethanol	45	6.861	6.861	(0.616)	102371	500.000	604.5610
8 Freon 113	101	7.511	7.512	(0.674)	40607	5.00000	5.2177
9 Acetone	43	7.531	7.532	(0.676)	33199	5.00000	6.1080
10 1,1-Dichloroethene	96	7.541	7.552	(0.677)	44505	5.00000	5.0646
11 Isopropanol	45	7.640	7.640	(0.686)	58647	50.0000	55.6030
12 Carbon Disulfide	76	7.994	8.015	(0.718)	194453	5.00000	5.2464
13 Methylene Chloride	84	8.261	8.271	(0.742)	68727	5.00000	5.6389
14 tert-Butyl Alcohol (TBA)	59	8.270	8.271	(0.742)	59697	50.0000	61.9539
15 MTBE	73	8.675	8.685	(0.779)	185779	5.00000	5.9658
16 trans-1,2-Dichloroethene	96	8.724	8.735	(0.783)	56386	5.00000	5.3145
17 Vinyl Acetate	43	9.375	9.385	(0.842)	212720	5.00000	5.8059
18 1,1-Dichloroethane	63	9.424	9.425	(0.846)	107910	5.00000	5.6332
19 Isopropyl Ether (DIPE)	45	9.444	9.454	(0.848)	248521	5.00000	5.7656
20 Ethyl tert-Butyl Ether (ETBE)	59	10.045	10.056	(0.902)	198272	5.00000	5.8145
21 2-Butanone	43	10.311	10.312	(0.926)	43249	5.00000	5.9526
22 cis-1,2-Dichloroethene	96	10.390	10.391	(0.933)	62641	5.00000	5.5413

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB15.D
Report Date: 04-Aug-2004 11:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.429	10.440	(0.936)	68508	5.00000	5.4241
24 Bromochloromethane	128	10.804	10.815	(0.970)	34135	5.00000	5.8688
25 Chloroform	83	10.883	10.884	(0.977)	97982	5.00000	5.5481
26 Tetrahydrofuran	42	10.903	10.894	(0.979)	245360	50.0000	59.2404
* 27 Pentafluorobenzene	168	11.139	11.140	(1.000)	1770487	50.0000	
$ 28 Dibromofluoromethane	113	11.159	11.160	(1.002)	1050048	50.0000	49.3513
29 1,1,1-Trichloroethane	97	11.307	11.317	(1.015)	62793	5.00000	5.2636
30 1,1-Dichloropropene	75	11.573	11.584	(0.927)	65144	5.00000	5.2243
31 Carbon Tetrachloride	117	11.622	11.623	(0.931)	47748	5.00000	5.0602
$ 32 1,2-Dichloroethane-d4	65	11.780	11.781	(0.944)	1098186	50.0000	50.4862
33 1,2-Dichloroethane	62	11.908	11.909	(0.954)	76002	5.00000	5.7767
34 Benzene	78	11.957	11.958	(0.958)	218991	5.00000	5.6833
35 Methyl tert-Amyl Ether (TAME)	73	12.026	12.027	(0.964)	184911	5.00000	5.9245
* 36 1,4-Difluorobenzene	114	12.480	12.491	(1.000)	2896118	50.0000	
37 Trichloroethene	95	13.012	13.023	(1.043)	51910	5.00000	5.4439
38 1,2-Dichloropropane	63	13.407	13.407	(1.074)	67473	5.00000	5.7468
$ 39 Trifluorotoluene	146	13.407	13.407	(1.074)	65833	5.00000	5.2051
40 Dibromomethane	93	13.614	13.614	(1.091)	43713	5.00000	5.8901
41 Bromodichloromethane	83	13.831	13.831	(1.108)	66290	5.00000	5.7324
42 2-Chloroethylvinylether	63	14.254	14.255	(1.142)	24676	5.00000	5.7617
43 cis-1,3-Dichloropropene	75	14.609	14.610	(1.171)	93779	5.00000	5.8073
44 Tetramethyl THF	43	14.728	14.728	(1.180)	146798	5.00000	6.0012
45 4-Methyl-2-Pentanone	43	14.797	14.797	(1.186)	88803	5.00000	6.1518
$ 46 Toluene-d8	98	15.152	15.142	(1.214)	3016646	50.0000	50.5743
47 Toluene	92	15.270	15.271	(1.224)	132390	5.00000	5.6498
48 trans-1,3-Dichloropropene	75	15.546	15.547	(1.246)	85368	5.00000	5.9000
49 1,1,2-Trichloroethane	85	15.911	15.911	(1.275)	31763	5.00000	6.1117
50 1,3-Dichloropropane	76	16.236	16.237	(0.914)	100093	5.00000	5.9621
51 2-Hexanone	43	16.275	16.276	(0.917)	57870	5.00000	5.9598
52 Tetrachloroethene	166	16.285	16.286	(0.917)	45230	5.00000	5.2770
53 Dibromochloromethane	129	16.680	16.680	(0.939)	56356	5.00000	5.7370
54 1,2-Dibromoethane	107	16.946	16.947	(1.358)	61110	5.00000	6.0384
* 55 Chlorobenzene-d5	117	17.754	17.755	(1.000)	2348841	50.0000	
56 Chlorobenzene	112	17.813	17.814	(1.003)	137558	5.00000	5.7169
57 1,1,1,2-Tetrachloroethane	131	17.912	17.913	(1.009)	45112	5.00000	5.6608
58 Ethylbenzene	91	17.961	17.962	(1.012)	230467	5.00000	5.6394
59 m,p-Xylenes	106	18.158	18.159	(1.023)	162670	10.0000	11.7009
60 o-Xylene	106	18.898	18.889	(1.064)	79857	5.00000	5.9428
61 Styrene	104	18.908	18.898	(1.065)	140187	5.00000	6.0254
62 Bromoform	173	19.282	19.283	(1.086)	39878	5.00000	5.5661
63 Isopropylbenzene	105	19.529	19.529	(0.891)	198334	5.00000	5.4346
64 Cyclohexanone	55	19.726	19.727	(0.900)	96600	50.0000	55.1206
$ 65 Bromofluorobenzene	95	19.844	19.835	(0.905)	1247413	50.0000	48.0138
66 1,1,2,2-Tetrachloroethane	83	20.002	20.003	(0.912)	85504	5.00000	5.8528
67 1,2,3-Trichloropropane	110	20.130	20.121	(0.918)	20330	5.00000	5.9137
68 Bromobenzene	156	20.169	20.160	(0.920)	58055	5.00000	5.5164
69 Propylbenzene	91	20.268	20.269	(0.924)	237920	5.00000	5.5962
70 2-Chlorotoluene	91	20.485	20.476	(0.934)	150097	5.00000	5.6189
71 1,3,5-Trimethylbenzene	105	20.564	20.555	(0.938)	127879	5.00000	5.9473
72 4-Chlorotoluene	91	20.662	20.663	(0.942)	149129	5.00000	5.7090
73 tert-Butylbenzene	119	21.175	21.166	(0.966)	126912	5.00000	5.6494
74 1,2,4-Trimethylbenzene	105	21.254	21.245	(0.969)	118512	5.00000	5.9989
75 sec-Butylbenzene	105	21.559	21.560	(0.983)	185747	5.00000	5.5483
76 para-Isopropyl Toluene	119	21.786	21.787	(0.994)	137234	5.00000	5.8396

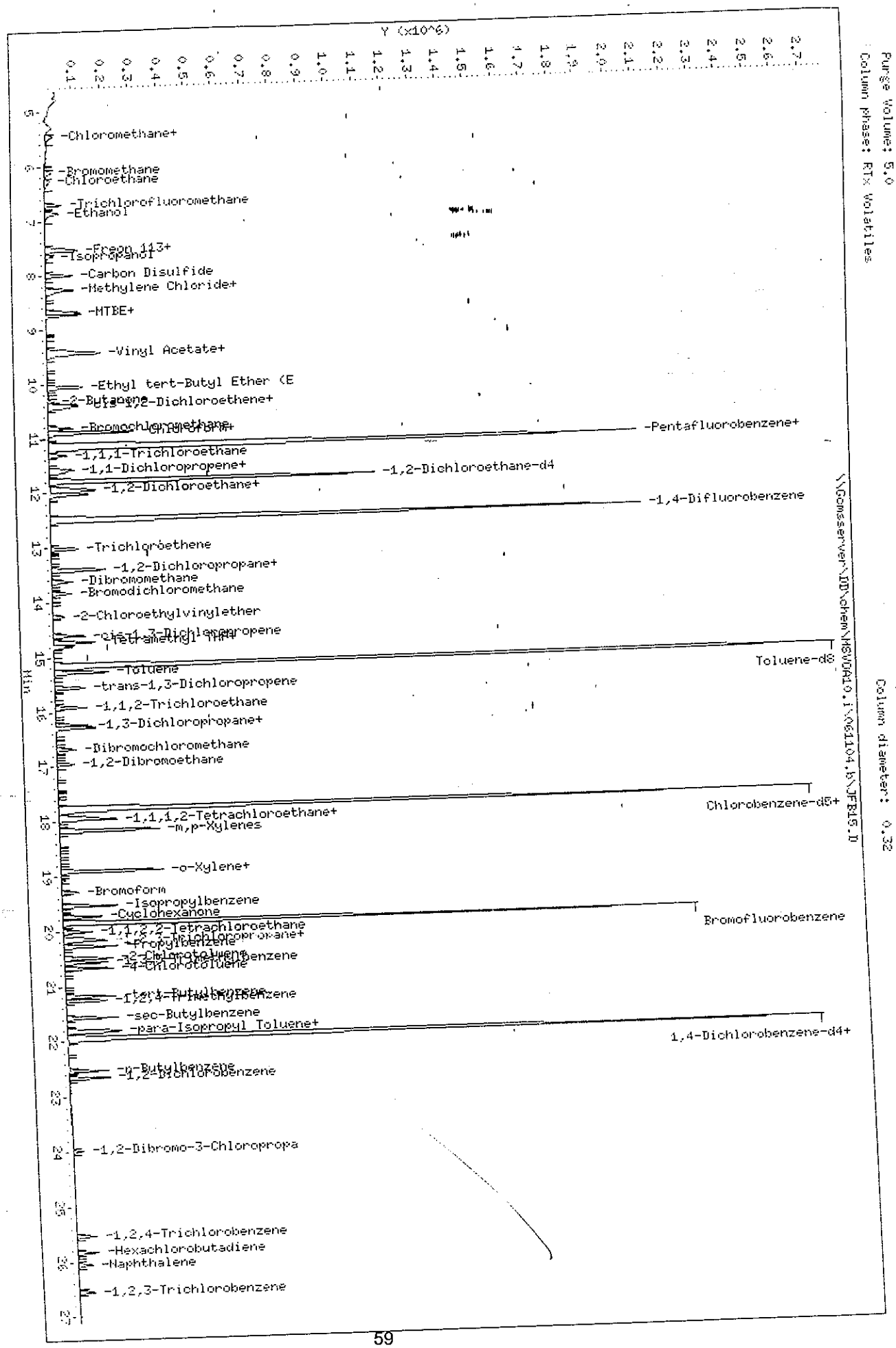
Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB15.D
Report Date: 04-Aug-2004 11:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	21.826	21.817	(0.996)	92682	5.00000	5.6660
* 78 1,4-Dichlorobenzene-d4	152	21.924	21.925	(1.000)	1035641	50.0000	
79 1,4-Dichlorobenzene	146	21.974	21.964	(1.002)	93478	5.00000	5.7313
80 n-Butylbenzene	91	22.526	22.516	(1.027)	118613	5.00000	5.9439
81 1,2-Dichlorobenzene	146	22.654	22.645	(1.033)	91521	5.00000	5.9398
82 1,2-Dibromo-3-Chloropropane	75	23.985	23.976	(1.094)	13353	5.00000	5.8300
83 1,2,4-Trichlorobenzene	180	25.532	25.523	(1.165)	34870	5.00000	6.3168
84 Hexachlorobutadiene	225	25.828	25.819	(1.178)	21903	5.00000	5.2584
85 Naphthalene	128	26.045	26.046	(1.188)	69798	5.00000	6.5329
86 1,2,3-Trichlorobenzene	180	26.548	26.539	(1.211)	32179	5.00000	6.8084

Client ID: IVMA F&T
Sample Info: ICAL,04WS200,0.005/500,04WS09840,0.04/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Operator: WOC
Column diameter: 0.32

\\Comsserver\DD\chem\MSVOA10.i\061104.b\JFB15.D



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB16.D
Report Date: 04-Aug-2004 11:12

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB16.D
Lab Smp Id: bfb SW846 2/88
Inj Date : 11-JUN-2004 20:45
Operator : VOC
Smp Info : ICAL,04WS200,0.002/100,04WS0984A,0.004/100
Misc Info : 04WS1033A,0.001/100, 10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\826GOX10.m
Meth Date : 04-Aug-2004 11:07 target
Cal Date : 11-JUN-2004 20:45
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 19-DEC-2003 16:05
Inst ID: MSVOA10.i
Quant Type: ISTD
Cal File: JFB16.D
Calibration Sample, Level: 1
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.794	4.791	(0.430)	157732	10.0000	9.5058
2 Chloromethane	50	5.287	5.284	(0.474)	189390	10.0000	9.9876
3 Vinyl Chloride	62	5.445	5.452	(0.489)	151882	10.0000	10.1414
4 Bromomethane	94	6.115	6.112	(0.549)	74621	10.0000	9.0043
5 Chloroethane	64	6.273	6.270	(0.563)	96161	10.0000	9.9375
6 Trichlorofluoromethane	101	6.707	6.714	(0.602)	133091	10.0000	10.2427
7 Ethanol	45	6.854	6.861	(0.615)	157999	1000.00	917.7033
8 Freon 113	101	7.515	7.512	(0.674)	71249	10.0000	8.1381
9 Acetone	43	7.525	7.532	(0.675)	47131	10.0000	9.2030
10 1,1-Dichloroethene	96	7.545	7.552	(0.677)	80864	10.0000	9.0506
11 Isopropanol	45	7.653	7.640	(0.687)	89969	100.000	95.6405
12 Carbon Disulfide	76	7.998	8.015	(0.718)	339460	10.0000	9.0079
13 Methylene Chloride	84	8.264	8.271	(0.742)	120876	10.0000	9.7542
14 tert-Butyl Alcohol (TBA)	59	8.274	8.271	(0.743)	93487	100.000	95.4229
15 MTBE	73	8.678	8.685	(0.779)	319065	10.0000	10.0771
16 trans-1,2-Dichloroethene	96	8.728	8.735	(0.783)	102553	10.0000	9.5066
17 Vinyl Acetate	43	9.378	9.385	(0.842)	355469	10.0000	9.5422
18 1,1-Dichloroethane	63	9.427	9.425	(0.846)	190169	10.0000	9.7638
19 Isopropyl Ether (DIPE)	45	9.437	9.454	(0.847)	436919	10.0000	9.9695
20 Ethyl tert-Butyl Ether (ETBE)	59	10.058	10.056	(0.903)	342676	10.0000	9.8837
21 2-Butanone	43	10.315	10.312	(0.926)	67690	10.0000	9.7469
22 cis-1,2-Dichloroethene	96	10.394	10.391	(0.933)	111459	10.0000	9.6974

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB16.D
Report Date: 04-Aug-2004 11:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.423	10.440	(0.935)	119042	10.0000	9.2698
24 Bromochloromethane	128	10.808	10.815	(0.970)	57615	10.0000	9.7424
25 Chloroform	83	10.887	10.884	(0.977)	176608	10.0000	9.8355
26 Tetrahydrofuran	42	10.896	10.894	(0.978)	384426	100.000	98.2054
* 27 Pentafluorobenzene	168	11.143	11.140	(1.000)	1800147	50.0000	
$ 28 Dibromofluoromethane	113	11.163	11.160	(1.002)	1092766	50.0000	50.5128
29 1,1,1-Trichloroethane	97	11.310	11.317	(1.015)	112242	10.0000	9.2537
30 1,1-Dichloropropene	75	11.577	11.584	(0.927)	114302	10.0000	8.9017
31 Carbon Tetrachloride	117	11.626	11.623	(0.931)	85860	10.0000	8.8364
$ 32 1,2-Dichloroethane-d4	65	11.784	11.781	(0.944)	1128714	50.0000	50.3901
33 1,2-Dichloroethane	62	11.912	11.909	(0.954)	136419	10.0000	10.0693
34 Benzene	78	11.951	11.958	(0.957)	388682	10.0000	9.7957
35 Methyl tert-Amyl Ether (TAME)	73	12.030	12.027	(0.964)	316856	10.0000	9.8586
* 36 1,4-Difluorobenzene	114	12.484	12.491	(1.000)	2982301	50.0000	
37 Trichloroethene	95	13.016	13.023	(1.043)	94142	10.0000	9.5876
38 1,2-Dichloropropane	63	13.410	13.407	(1.074)	120025	10.0000	9.9273
$ 39 Trifluorotoluene	146	13.400	13.407	(1.073)	113515	10.0000	8.7158
40 Dibromomethane	93	13.617	13.614	(1.091)	75489	10.0000	9.8778
41 Bromodichloromethane	83	13.834	13.831	(1.108)	117245	10.0000	9.8458
42 2-Chloroethylvinylether	63	14.258	14.255	(1.142)	41401	10.0000	9.3875
43 cis-1,3-Dichloropropene	75	14.603	14.610	(1.170)	164898	10.0000	9.9164
44 Tetramethyl THF	43	14.731	14.728	(1.180)	249239	10.0000	9.8947
45 4-Methyl-2-Pentanone	43	14.800	14.797	(1.186)	142986	10.0000	9.6192
$ 46 Toluene-d8	98	15.145	15.142	(1.213)	3090899	50.0000	50.3216
47 Toluene	92	15.273	15.271	(1.223)	225712	10.0000	9.5279
48 trans-1,3-Dichloropropene	75	15.550	15.547	(1.246)	145125	10.0000	9.7401
49 1,1,2-Trichloroethane	85	15.914	15.911	(1.275)	53116	10.0000	9.9250
50 1,3-Dichloropropane	76	16.240	16.237	(0.915)	165485	10.0000	9.6625
51 2-Hexanone	43	16.279	16.276	(0.917)	88669	10.0000	9.6345
52 Tetrachloroethene	166	16.289	16.286	(0.917)	76573	10.0000	8.7574
53 Dibromochloromethane	129	16.673	16.680	(0.939)	97585	10.0000	9.7379
54 1,2-Dibromoethane	107	16.940	16.947	(1.357)	103994	10.0000	9.9789
* 55 Chlorobenzene-d5	117	17.758	17.755	(1.000)	2396163	50.0000	
56 Chlorobenzene	112	17.817	17.814	(1.003)	242535	10.0000	9.8808
57 1,1,1,2-Tetrachloroethane	131	17.916	17.913	(1.009)	79579	10.0000	9.7887
58 Ethylbenzene	91	17.965	17.962	(1.012)	393219	10.0000	9.4319
59 m,p-Xylenes	106	18.162	18.159	(1.023)	257508	20.0000	18.1568
60 o-Xylene	106	18.891	18.889	(1.064)	126141	10.0000	9.2017
61 Styrene	104	18.901	18.898	(1.064)	223424	10.0000	9.4134
62 Bromoform	173	19.286	19.283	(1.086)	66389	10.0000	9.0835
63 Isopropylbenzene	105	19.532	19.529	(0.891)	318030	10.0000	9.6306
64 Cyclohexanone	55	19.729	19.727	(0.900)	154448	100.000	97.7602
$ 65 Bromofluorobenzene	95	19.838	19.835	(0.905)	1238509	50.0000	52.6826
66 1,1,2,2-Tetrachloroethane	83	20.005	20.003	(0.912)	136217	10.0000	10.3045
67 1,2,3-Trichloropropane	110	20.134	20.121	(0.918)	33263	10.0000	10.6930
68 Bromobenzene	156	20.163	20.160	(0.920)	100077	10.0000	10.5091
69 Propylbenzene	91	20.272	20.269	(0.924)	358603	10.0000	9.3216
70 2-Chlorotoluene	91	20.479	20.476	(0.934)	240920	10.0000	9.9670
71 1,3,5-Trimethylbenzene	105	20.558	20.555	(0.938)	177086	10.0000	9.1016
72 4-Chlorotoluene	91	20.666	20.663	(0.942)	228360	10.0000	9.6613
73 tert-Butylbenzene	119	21.169	21.166	(0.965)	191728	10.0000	9.4320
74 1,2,4-Trimethylbenzene	105	21.248	21.245	(0.969)	164311	10.0000	9.1915
75 sec-Butylbenzene	105	21.563	21.560	(0.983)	271121	10.0000	8.9499
76 para-Isopropyl Toluene	119	21.790	21.787	(0.994)	191960	10.0000	9.0271

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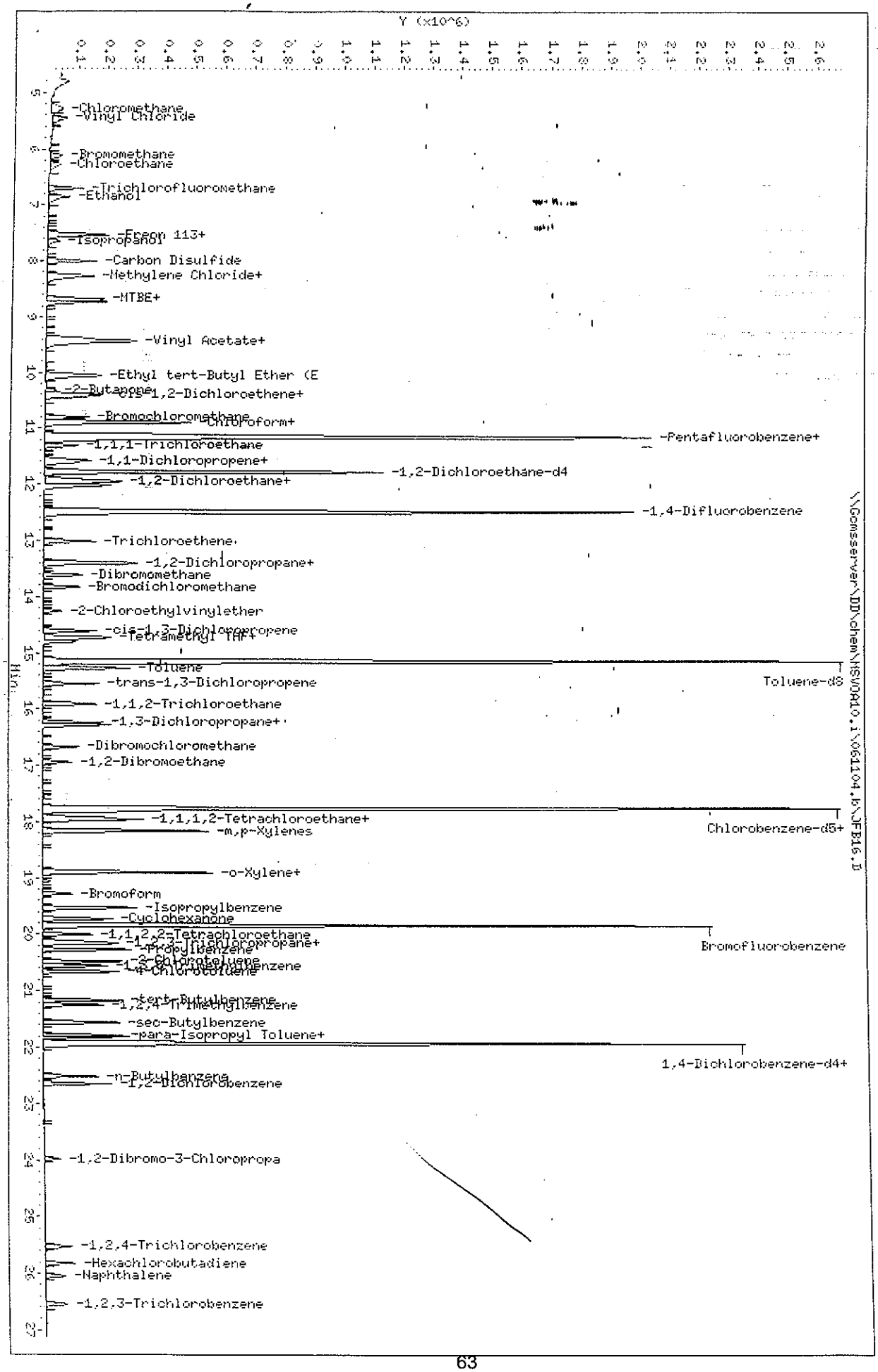
Report Date: 04-Aug-2004 11:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	21.819	21.817	(0.995)	144711	10.0000	9.7768
* 78 1,4-Dichlorobenzene-d4	152	21.928	21.925	(1.000)	937123	50.0000	
79 1,4-Dichlorobenzene	146	21.967	21.964	(1.002)	141158	10.0000	9.5645
80 n-Butylbenzene	91	22.519	22.516	(1.027)	156335	10.0000	8.6578
81 1,2-Dichlorobenzene	146	22.648	22.645	(1.033)	136521	10.0000	9.7918
82 1,2-Dibromo-3-Chloropropane	75	23.978	23.976	(1.094)	21182	10.0000	10.2204
83 1,2,4-Trichlorobenzene	180	25.536	25.523	(1.165)	44580	10.0000	8.9247
84 Hexachlorobutadiene	225	25.822	25.819	(1.178)	32821	10.0000	8.7079
85 Naphthalene	128	26.049	26.046	(1.188)	87387	10.0000	9.3465
86 1,2,3-Trichlorobenzene	180	26.551	26.539	(1.211)	39307	10.0000	9.3048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Instrument: HSVOA10.i
Operator: VOC
Column diameter: 0.32
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-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Freon 113+
-Isopropanol
-Carbon Disulfide
-Methylene Chloride+
-MTBE+
-Vinyl Acetate+
-Ethyl tert-Butyl Ether (E
-2-Butanone
-cis-1,2-Dichloroethene+
-Bromochloromethane
-Chloroform+
-Pentafluorobenzene+
-1,1,1-Trichloroethane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-Bromodichloromethane
-2-Chloroethylvinylether
-cis-1,3-Dichloropropene
-Tetramethyl THF+
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone
-1,1,2,2-Tetrachloroethane
-1,2,3-Trichloropropane+
-Propylbenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene
-4-Chlorotoluene
Bromofluorobenzene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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Report Date: 04-Aug-2004 11:13

Laboratory Name

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MS Autotune Date: 19-DEC-2003 16:05
Inst ID: MSVOA10.i

Quant Type: ISTD
Cal File: JFB17.D
Calibration Sample, Level: 2

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.797	4.791	(0.431)	323940	20.0000	19.0012
2 Chloromethane	50	5.280	5.284	(0.474)	368539	20.0000	19.3885
3 Vinyl Chloride	62	5.448	5.452	(0.489)	304989	20.0000	20.3158
4 Bromomethane	94	6.108	6.112	(0.549)	172939	20.0000	19.2397
5 Chloroethane	64	6.276	6.270	(0.564)	187580	20.0000	19.3384(M)
6 Trichlorofluoromethane	101	6.700	6.714	(0.602)	267468	20.0000	20.5350
7 Ethanol	45	6.858	6.861	(0.616)	334069	2000.00	1935.7121
8 Freon 113	101	7.508	7.512	(0.674)	193460	20.0000	20.0048
9 Acetone	43	7.528	7.532	(0.676)	91907	20.0000	19.8860
10 1,1-Dichloroethene	96	7.538	7.552	(0.677)	187715	20.0000	20.9595
11 Isopropanol	45	7.646	7.640	(0.687)	173713	200.000	205.6031
12 Carbon Disulfide	76	8.001	8.015	(0.718)	768637	20.0000	20.3476
13 Methylene Chloride	84	8.267	8.271	(0.742)	240507	20.0000	19.3614
14 tert-Butyl Alcohol (TBA)	59	8.267	8.271	(0.742)	195252	200.000	198.8170
15 MTBE	73	8.681	8.685	(0.780)	641723	20.0000	20.2191
16 trans-1,2-Dichloroethene	96	8.731	8.735	(0.784)	210369	20.0000	19.4543
17 Vinyl Acetate	43	9.381	9.385	(0.842)	753992	20.0000	20.1916
18 1,1-Dichloroethane	63	9.421	9.425	(0.846)	385968	20.0000	19.7691
19 Isopropyl Ether (DIPE)	45	9.440	9.454	(0.848)	871835	20.0000	19.8455
20 Ethyl tert-Butyl Ether (ETBE)	59	10.052	10.056	(0.903)	683485	20.0000	19.6664
21 2-Butanone	43	10.318	10.312	(0.927)	134773	20.0000	20.4966
22 cis-1,2-Dichloroethene	96	10.387	10.391	(0.933)	221705	20.0000	19.2430

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB17.D
Report Date: 04-Aug-2004 11:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2,2-Dichloropropane	77	10.426	10.440	(0.936)	259867	20.0000	20.1874
	24 Bromochloromethane	128	10.801	10.815	(0.970)	117366	20.0000	19.7985
	25 Chloroform	83	10.880	10.884	(0.977)	345902	20.0000	19.2174
	26 Tetrahydrofuran	42	10.899	10.894	(0.979)	771472	200.000	211.1930
*	27 Pentafluorobenzene	168	11.136	11.140	(1.000)	1804477	50.0000	
$	28 Dibromofluoromethane	113	11.156	11.160	(1.002)	1082877	50.0000	49.9355
	29 1,1,1-Trichloroethane	97	11.314	11.317	(1.016)	251430	20.0000	20.6793
	30 1,1-Dichloropropene	75	11.580	11.584	(0.927)	266401	20.0000	20.7234
	31 Carbon Tetrachloride	117	11.619	11.623	(0.931)	206097	20.0000	21.1865
$	32 1,2-Dichloroethane-d4	65	11.777	11.781	(0.943)	1120860	50.0000	49.9825
	33 1,2-Dichloroethane	62	11.905	11.909	(0.953)	270603	20.0000	19.9509
	34 Benzene	78	11.954	11.958	(0.957)	786193	20.0000	19.7914
	35 Methyl tert-Amyl Ether (TAME)	73	12.023	12.027	(0.963)	637558	20.0000	19.8143
*	36 1,4-Difluorobenzene	114	12.487	12.491	(1.000)	2985702	50.0000	
	37 Trichloroethene	95	13.019	13.023	(1.043)	198435	20.0000	20.1861
	38 1,2-Dichloropropane	63	13.403	13.407	(1.073)	236080	20.0000	19.5041
$	39 Trifluorotoluene	146	13.403	13.407	(1.073)	277490	20.0000	21.2818
	40 Dibromomethane	93	13.620	13.614	(1.091)	154604	20.0000	20.2070
	41 Bromodichloromethane	83	13.827	13.831	(1.107)	237012	20.0000	19.8808
	42 2-Chloroethylvinylether	63	14.251	14.255	(1.141)	87733	20.0000	19.8705
	43 cis-1,3-Dichloropropene	75	14.606	14.610	(1.170)	330554	20.0000	19.8557
	44 Tetramethyl THF	43	14.725	14.728	(1.179)	481952	20.0000	19.1116
	45 4-Methyl-2-Pentanone	43	14.803	14.797	(1.186)	303736	20.0000	20.4101
$	46 Toluene-d8	98	15.148	15.142	(1.213)	3054825	50.0000	49.6777
	47 Toluene	92	15.267	15.271	(1.223)	459234	20.0000	19.6919
	48 trans-1,3-Dichloropropene	75	15.553	15.547	(1.246)	290740	20.0000	19.4909
	49 1,1,2-Trichloroethane	85	15.908	15.911	(1.274)	108179	20.0000	20.1909
	50 1,3-Dichloropropane	76	16.233	16.237	(0.914)	334994	20.0000	19.8577
	51 2-Hexanone	43	16.272	16.276	(0.916)	178314	20.0000	21.1873
	52 Tetrachloroethene	166	16.292	16.286	(0.917)	175850	20.0000	20.4174
	53 Dibromochloromethane	129	16.676	16.680	(0.939)	198814	20.0000	20.1413
	54 1,2-Dibromoethane	107	16.943	16.947	(1.357)	205392	20.0000	19.6863
*	55 Chlorobenzene-d5	117	17.761	17.755	(1.000)	2360246	50.0000	
	56 Chlorobenzene	112	17.810	17.814	(1.003)	479346	20.0000	19.8255
	57 1,1,1,2-Tetrachloroethane	131	17.919	17.913	(1.009)	161430	20.0000	20.1591
	58 Ethylbenzene	91	17.958	17.962	(1.011)	815965	20.0000	19.8700
	59 m,p-Xylenes	106	18.155	18.159	(1.022)	546431	40.0000	39.1150
	60 o-Xylene	106	18.895	18.889	(1.064)	262964	20.0000	19.4747
	61 Styrene	104	18.904	18.898	(1.064)	470328	20.0000	20.1177
	62 Bromoform	173	19.279	19.283	(1.085)	139885	20.0000	19.4306
	63 Isopropylbenzene	105	19.535	19.529	(0.891)	697849	20.0000	20.5098
	64 Cyclohexanone	55	19.723	19.727	(0.900)	298278	200.000	190.9010
$	65 Bromofluorobenzene	95	19.841	19.835	(0.905)	1231614	50.0000	50.8456
	66 1,1,2,2-Tetrachloroethane	83	19.999	20.003	(0.912)	280857	20.0000	20.6202
	67 1,2,3-Trichloropropane	110	20.127	20.121	(0.918)	67457	20.0000	21.0463
	68 Bromobenzene	156	20.166	20.160	(0.920)	196806	20.0000	20.0578
	69 Propylbenzene	91	20.275	20.269	(0.925)	814562	20.0000	20.5501
	70 2-Chlorotoluene	91	20.482	20.476	(0.934)	497714	20.0000	19.9841
	71 1,3,5-Trimethylbenzene	105	20.561	20.555	(0.938)	390793	20.0000	19.4936
	72 4-Chlorotoluene	91	20.659	20.663	(0.942)	475821	20.0000	19.5376
	73 tert-Butylbenzene	119	21.172	21.166	(0.966)	429630	20.0000	20.5127
	74 1,2,4-Trimethylbenzene	105	21.251	21.245	(0.969)	353823	20.0000	19.2096
	75 sec-Butylbenzene	105	21.556	21.560	(0.983)	657754	20.0000	21.0731
	76 para-Isopropyl Toluene	119	21.783	21.787	(0.994)	442032	20.0000	20.1746

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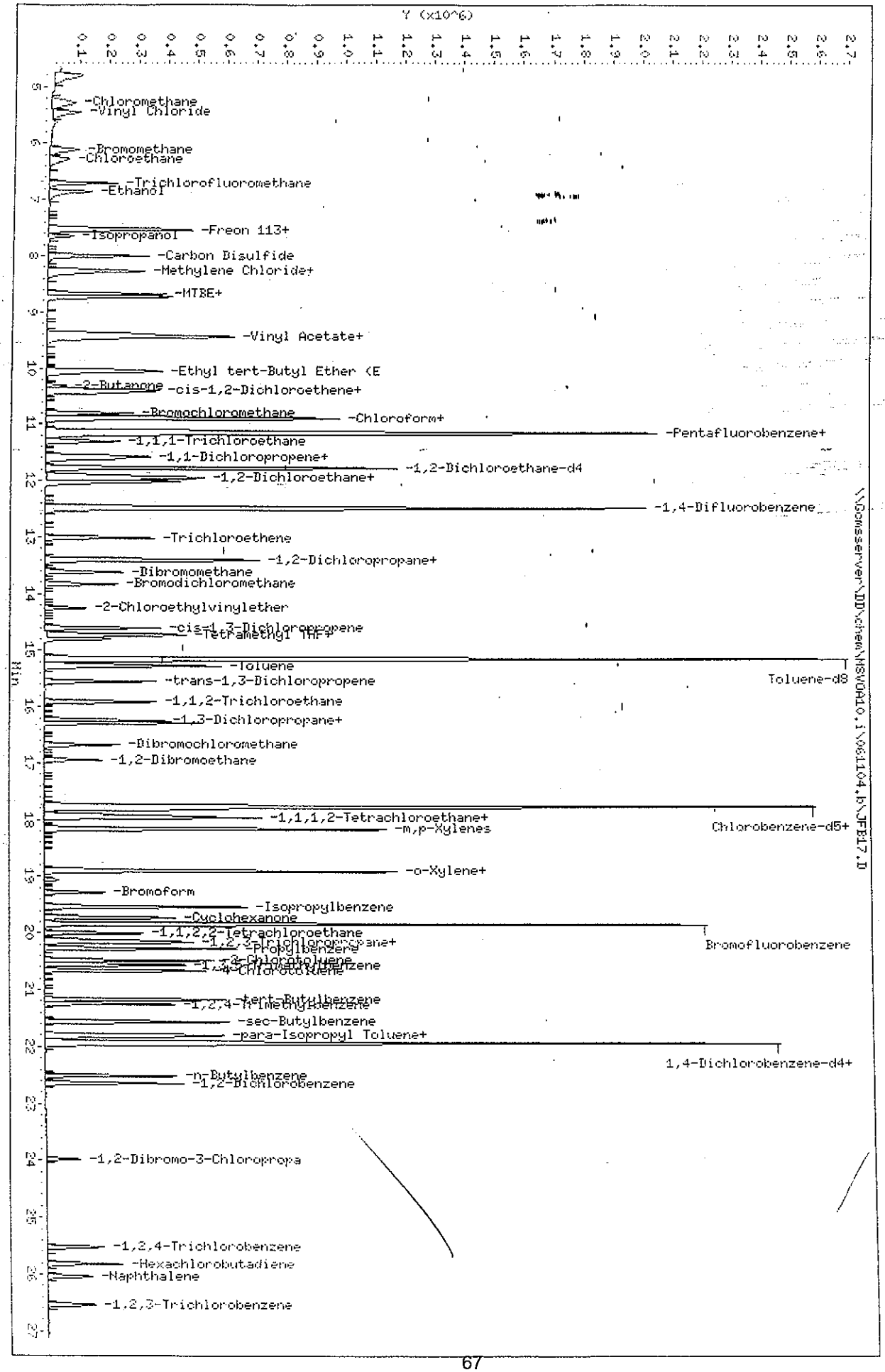
Report Date: 04-Aug-2004 11:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	21.823	21.817	(0.996)	301904	20.0000	19.7959
* 78 1,4-Dichlorobenzene-d4	152	21.921	21.925	(1.000)	965574	50.0000	
79 1,4-Dichlorobenzene	146	21.970	21.964	(1.002)	297203	20.0000	19.5445
80 n-Butylbenzene	91	22.513	22.516	(1.027)	373177	20.0000	20.0577
81 1,2-Dichlorobenzene	146	22.651	22.645	(1.033)	283919	20.0000	19.7637
82 1,2-Dibromo-3-Chloropropane	75	23.981	23.976	(1:094)	41888	20.0000	19.6156
83 1,2,4-Trichlorobenzene	180	25.529	25.523	(1.165)	95641	20.0000	18.5828
84 Hexachlorobutadiene	225	25.825	25.819	(1.178)	78676	20.0000	20.2589
85 Naphthalene	128	26.042	26.046	(1.188)	193628	20.0000	21.0215
86 1,2,3-Trichlorobenzene	180	26.545	26.539	(1.211)	87675	20.0000	20.5224

QC Flag Legend

M - Compound response manually integrated.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Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Isopropanol
-Freon 113+
-Carbon Disulfide
-Methylene Chloride+
-MTBE+
-Vinyl Acetate+
-Ethyl tert-Butyl Ether (E
-2-Butanone
-cis-1,2-Dichloroethene+
-Bromochloromethane
-Chloroform+
-Pentafluorobenzene+
-1,1,1-Trichloroethane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-Bromodichloromethane
-2-Chloroethylvinylether
-cis-1,3-Dichloropropene
-Tetramethyl THF+
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone
-1,1,2,2-Tetrachloroethane
-1,2,3-Trichloropropane+
-Propylbenzene
Bromofluorobenzene
-2-Chlorotoluene
-1,3,5-Trimethylbenzene
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\Comsserver\DD\chem\MSV0A10.i\061104.b\JFB17.D

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB18.D
Report Date: 04-Aug-2004 11:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB18.D
Lab Smp Id: bfb SW846 2/88 — Client Smp ID: DYNA P&T
Inj Date : 11-JUN-2004 21:57 — MS Autotune Date: 19-DEC-2003 16:05
Operator : VOC — Inst ID: MSVOA10.i
Smp Info : ICAL,04WS200,0.01/100,04WS0984A,0.02/100
Misc Info : 04WS1033A,0.005/100, 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\826GOX10.m
Meth Date : 04-Aug-2004 11:07 target — Quant Type: ISTD
Cal Date : 11-JUN-2004 21:57 — Cal File: JFB18.D
Als bottle: 18 — Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

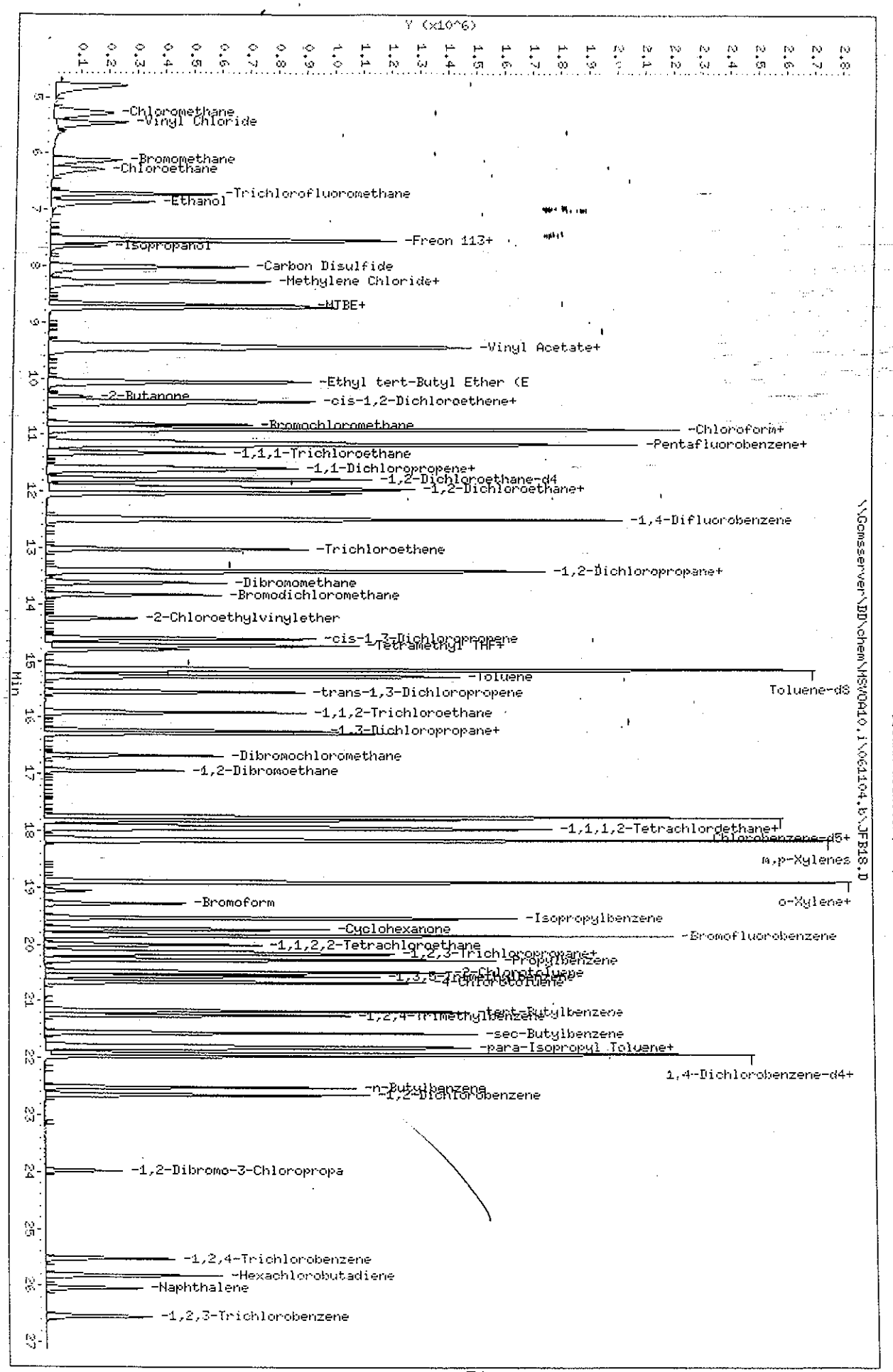
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.796	4.791	(0.431)	873365	50.0000	50.9908
2 Chloromethane	50	5.289	5.284	(0.475)	957347	50.0000	50.8983
3 Vinyl Chloride	62	5.447	5.452	(0.489)	795559	50.0000	53.5543
4 Bromomethane	94	6.108	6.112	(0.548)	472874	50.0000	50.3711
5 Chloroethane	64	6.265	6.270	(0.563)	488835	50.0000	50.9295
6 Trichlorofluoromethane	101	6.709	6.714	(0.603)	709143	50.0000	55.0211
7 Ethanol	45	6.857	6.861	(0.616)	814817	5000.00	4771.3052
8 Freon 113	101	7.517	7.512	(0.675)	506624	50.0000	50.9773
9 Acetone	43	7.527	7.532	(0.676)	204948	50.0000	50.0951
10 1,1-Dichloroethene	96	7.547	7.552	(0.678)	487558	50.0000	55.0151
11 Isopropanol	45	7.645	7.640	(0.687)	384678	500.000	488.6951
12 Carbon Disulfide	76	8.010	8.015	(0.719)	1975132	50.0000	52.8398
13 Methylene Chloride	84	8.267	8.271	(0.742)	598821	50.0000	48.7169
14 tert-Butyl Alcohol (TBA)	59	8.267	8.271	(0.742)	439531	500.000	452.2933
15 MTBE	73	8.681	8.685	(0.780)	1548299	50.0000	49.2995
16 trans-1,2-Dichloroethene	96	8.730	8.735	(0.784)	530796	50.0000	49.6061
17 Vinyl Acetate	43	9.381	9.385	(0.842)	1723005	50.0000	46.6298
18 1,1-Dichloroethane	63	9.430	9.425	(0.847)	959943	50.0000	49.6884
19 Isopropyl Ether (DIPE)	45	9.450	9.454	(0.849)	2140163	50.0000	49.2321
20 Ethyl tert-Butyl Ether (ETBE)	59	10.051	10.056	(0.903)	1682736	50.0000	48.9310
21 2-Butanone	43	10.317	10.312	(0.927)	309148	50.0000	49.5281
22 cis-1,2-Dichloroethene	96	10.396	10.391	(0.934)	552812	50.0000	48.4894

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB18.D
Report Date: 04-Aug-2004 11:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.435	10.440	(0.937)	653971	50.0000	51.3406
24 Bromochloromethane	128	10.810	10.815	(0.971)	288230	50.0000	49.1363
25 Chloroform	83	10.879	10.884	(0.977)	858654	50.0000	48.2096
26 Tetrahydrofuran	42	10.899	10.894	(0.979)	1671621	500.000	490.3106
* 27 Pentafluorobenzene	168	11.135	11.140	(1.000)	1785578	50.0000	
$ 28 Dibromofluoromethane	113	11.155	11.160	(1.002)	1075782	50.0000	50.1334
29 1,1,1-Trichloroethane	97	11.313	11.317	(1.016)	641092	50.0000	53.2860
30 1,1-Dichloropropene	75	11.579	11.584	(0.927)	675782	50.0000	52.9729
31 Carbon Tetrachloride	117	11.628	11.623	(0.931)	529863	50.0000	54.8875
$ 32 1,2-Dichloroethane-d4	65	11.776	11.781	(0.943)	1108487	50.0000	49.8101
33 1,2-Dichloroethane	62	11.914	11.909	(0.954)	670801	50.0000	49.8362
34 Benzene	78	11.954	11.958	(0.957)	1968121	50.0000	49.9252
35 Methyl tert-Amyl Ether (TAME)	73	12.023	12.027	(0.963)	1547450	50.0000	48.4614
* 36 1,4-Difluorobenzene	114	12.486	12.491	(1.000)	2962952	50.0000	
37 Trichloroethene	95	13.018	13.023	(1.043)	499556	50.0000	51.2082
38 1,2-Dichloropropane	63	13.403	13.407	(1.073)	579462	50.0000	48.2406
$ 39 Trifluorotoluene	146	13.403	13.407	(1.073)	717732	50.0000	55.4684
40 Dibromomethane	93	13.620	13.614	(1.091)	373155	50.0000	49.1464
41 Bromodichloromethane	83	13.827	13.831	(1.107)	592824	50.0000	50.1085
42 2-Chloroethylvinylether	63	14.251	14.255	(1.141)	203935	50.0000	46.5435
43 cis-1,3-Dichloropropene	75	14.605	14.610	(1.170)	817358	50.0000	49.4741
44 Tetramethyl THF	43	14.724	14.728	(1.179)	1124402	50.0000	44.9300
45 4-Methyl-2-Pentanone	43	14.793	14.797	(1.185)	674786	50.0000	45.6917
$ 46 Toluene-d8	98	15.148	15.142	(1.213)	3036042	50.0000	49.7512
47 Toluene	92	15.266	15.271	(1.223)	1137418	50.0000	50.0818
48 trans-1,3-Dichloropropene	75	15.552	15.547	(1.246)	732008	50.0000	49.4499
49 1,1,2-Trichloroethane	85	15.907	15.911	(1.274)	265062	50.0000	49.8519
50 1,3-Dichloropropane	76	16.232	16.237	(0.914)	808637	50.0000	48.1704
51 2-Hexanone	43	16.272	16.276	(0.916)	391220	50.0000	49.0679
52 Tetrachloroethene	166	16.291	16.286	(0.917)	441179	50.0000	51.4765
53 Dibromochloromethane	129	16.676	16.680	(0.939)	497719	50.0000	50.6712
54 1,2-Dibromoethane	107	16.942	16.947	(1.357)	506601	50.0000	48.9292
* 55 Chlorobenzene-d5	117	17.760	17.755	(1.000)	2348674	50.0000	
56 Chlorobenzene	112	17.809	17.814	(1.003)	1174051	50.0000	48.7976
57 1,1,1,2-Tetrachloroethane	131	17.918	17.913	(1.009)	394385	50.0000	49.4927
58 Ethylbenzene	91	17.957	17.962	(1.011)	2036078	50.0000	49.8259
59 m,p-Xylenes	106	18.164	18.159	(1.023)	1349639	100.000	97.0868
60 o-Xylene	106	18.894	18.889	(1.064)	644386	50.0000	47.9573
61 Styrene	104	18.904	18.898	(1.064)	1142001	50.0000	49.0884
62 Bromoform	173	19.278	19.283	(1.085)	344341	50.0000	48.0662
63 Isopropylbenzene	105	19.535	19.529	(0.891)	1739004	50.0000	51.8271
64 Cyclohexanone	55	19.722	19.727	(0.900)	682146	500.000	506.6915
$ 65 Bromofluorobenzene	95	19.840	19.835	(0.905)	1220356	50.0000	51.0884
66 1,1,2,2-Tetrachloroethane	83	19.998	20.003	(0.912)	649525	50.0000	48.3571
67 1,2,3-Trichloropropane	110	20.126	20.121	(0.918)	152447	50.0000	48.2309
68 Bromobenzene	156	20.166	20.160	(0.920)	486871	50.0000	50.3170
69 Propylbenzene	91	20.274	20.269	(0.925)	2005345	50.0000	51.3022
70 2-Chlorotoluene	91	20.481	20.476	(0.934)	1227153	50.0000	49.9644
71 1,3,5-Trimethylbenzene	105	20.560	20.555	(0.938)	970534	50.0000	49.0924
72 4-Chlorotoluene	91	20.658	20.663	(0.942)	1180442	50.0000	49.1506
73 tert-Butylbenzene	119	21.171	21.166	(0.966)	1068197	50.0000	51.7174
74 1,2,4-Trimethylbenzene	105	21.250	21.245	(0.969)	874600	50.0000	48.1504
75 sec-Butylbenzene	105	21.556	21.560	(0.983)	1609556	50.0000	52.2912
76 para-Isopropyl Toluene	119	21.782	21.787	(0.994)	1111413	50.0000	51.4379

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB18.D
Report Date: 04-Aug-2004 11:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	21.822	21.817	(0.996)	731966	50.0000	48.6693
* 78 1,4-Dichlorobenzene-d4	152	21.920	21.925	(1.000)	952202	50.0000	
79 1,4-Dichlorobenzene	146	21.970	21.964	(1.002)	720518	50.0000	48.0477
80 n-Butylbenzene	91	22.512	22.516	(1.027)	935092	50.0000	50.9656
81 1,2-Dichlorobenzene	146	22.650	22.645	(1.033)	697759	50.0000	49.2535
82 1,2-Dibromo-3-Chloropropane	75	23.981	23.976	(1.094)	96289	50.0000	45.7242
83 1,2,4-Trichlorobenzene	180	25.528	25.523	(1.165)	225430	50.0000	44.4157
84 Hexachlorobutadiene	225	25.824	25.819	(1.178)	193802	50.0000	50.6044
85 Naphthalene	128	26.041	26.046	(1.188)	428058	50.0000	48.1205
86 1,2,3-Trichlorobenzene	180	26.544	26.539	(1.211)	198263	50.0000	47.4810


Data File: \\Comsserver\DD\chem\MSVOA10.i\061104.b\JFB18.D
Date : 11-JUN-2004 21:57
Client ID: EVNA F&T
Sample Info: ICAL,04WS200,0.01/100,04WS0384A,0,02/100
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Isopropanol
-Freon 113+
-Carbon Disulfide
-Methylene Chloride+
-MTBE+
-Vinyl Acetate+
-Ethyl tert-Butyl Ether (E
-2-Butanone
-cis-1,2-Dichloroethene+
-Bromochloromethane
-Chloroform+
-Pentafluorobenzene+
-1,1,1-Trichloroethane
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Dibromomethane
-Bromodichloromethane
-2-Chloroethylvinylether
-cis-1,3-Dichloropropene
-Tetramethyl THF+
-Toluene
Toluene-d8
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
Chlorobenzene-d5+
m,p-Xylenes
o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone
-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane
-1,2,3-Trichloropropane+
-Propylbenzene
-1,3,5-Trimethylbenzene
-2-Chlorotoluene
-4-Chlorotoluene
-1,2,4-Trimethylbenzene
-tert-Butylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene+
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB19.D
Report Date: 04-Aug-2004 11:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB19.D
Lab Smp Id: bfb SW846 2/88 Client Smp ID: DYNA P&T
Inj Date : 11-JUN-2004 22:32 MS Autotune Date: 19-DEC-2003 16:05
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,04WS200,0.02/100,04WS0984A,0.04/100
Misc Info : 04WS1033A,0.01/100, 100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\826GOX10.m
Meth Date : 04-Aug-2004 11:07 target Quant Type: ISTD
Cal Date : 11-JUN-2004 22:32 Cal File: JFB19.D
Als bottle: 19 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.791	4.791	(0.430)	1769371	100.000	101.8985
2 Chloromethane	50	5.284	5.284	(0.474)	1886348	100.000	99.3679
3 Vinyl Chloride	62	5.452	5.452	(0.489)	1594117	100.000	106.3244
4 Bromomethane	94	6.112	6.112	(0.549)	985372	100.000	100.0472
5 Chloroethane	64	6.270	6.270	(0.563)	973070	100.000	100.4481
6 Trichlorofluoromethane	101	6.714	6.714	(0.603)	1435252	100.000	110.3352
7 Ethanol	45	6.861	6.861	(0.616)	1639228	10000.0	9510.5751
8 Freon 113	101	7.512	7.512	(0.674)	1010963	100.000	99.6235
9 Acetone	43	7.532	7.532	(0.676)	371531	100.000	99.9812
10 1,1-Dichloroethene	96	7.552	7.552	(0.678)	954585	100.000	106.7236
11 Isopropanol	45	7.640	7.640	(0.686)	779512	1000.00	1004.4581
12 Carbon Disulfide	76	8.015	8.015	(0.719)	3871400	100.000	102.6181
13 Methylene Chloride	84	8.271	8.271	(0.742)	1187734	100.000	95.7397
14 tert-Butyl Alcohol (TBA)	59	8.271	8.271	(0.742)	887123	1000.00	904.4921
15 MTBE	73	8.685	8.685	(0.780)	3094839	100.000	97.6375
16 trans-1,2-Dichloroethene	96	8.735	8.735	(0.784)	1054811	100.000	97.6726
17 Vinyl Acetate	43	9.385	9.385	(0.842)	3514591	100.000	94.2414
18 1,1-Dichloroethane	63	9.425	9.425	(0.846)	1889912	100.000	96.9262
19 Isopropyl Ether (DIPE)	45	9.454	9.454	(0.849)	4230393	100.000	96.4212
20 Ethyl tert-Butyl Ether (ETBE)	59	10.056	10.056	(0.903)	3376444	100.000	97.2788
21 2-Butanone	43	10.312	10.312	(0.926)	611097	100.000	100.0971
22 cis-1,2-Dichloroethene	96	10.391	10.391	(0.933)	1100081	100.000	95.6059

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB19.D
Report Date: 04-Aug-2004 11:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 2,2-Dichloropropane	77	10.440	10.440	(0.937)	1309960	100.000	101.8946
	24 Bromochloromethane	128	10.815	10.815	(0.971)	575449	100.000	97.1987
	25 Chloroform	83	10.884	10.884	(0.977)	1696845	100.000	94.3948
	26 Tetrahydrofuran	42	10.894	10.894	(0.978)	3254532	1000.00	1001.9476
*	27 Pentafluorobenzene	168	11.140	11.140	(1.000)	1802140	50.0000	
$	28 Dibromofluoromethane	113	11.160	11.160	(1.002)	1084563	50.0000	50.0781
	29 1,1,1-Trichloroethane	97	11.317	11.317	(1.016)	1271735	100.000	104.7321
	30 1,1-Dichloropropene	75	11.584	11.584	(0.927)	1346200	100.000	104.4838
	31 Carbon Tetrachloride	117	11.623	11.623	(0.931)	1066851	100.000	109.4223
$	32 1,2-Dichloroethane-d4	65	11.781	11.781	(0.943)	1117313	50.0000	49.7111
	33 1,2-Dichloroethane	62	11.909	11.909	(0.953)	1340758	100.000	98.6265
	34 Benzene	78	11.958	11.958	(0.957)	3864347	100.000	97.0590
	35 Methyl tert-Amyl Ether (TAME)	73	12.027	12.027	(0.963)	3119152	100.000	96.7182
*	36 1,4-Difluorobenzene	114	12.491	12.491	(1.000)	2992498	50.0000	
	37 Trichloroethene	95	13.023	13.023	(1.043)	991634	100.000	100.6465
	38 1,2-Dichloropropane	63	13.407	13.407	(1.073)	1137808	100.000	93.7883
$	39 Trifluorotoluene	146	13.407	13.407	(1.073)	1426835	100.000	109.1814
	40 Dibromomethane	93	13.614	13.614	(1.090)	748797	100.000	97.6470
	41 Bromodichloromethane	83	13.831	13.831	(1.107)	1207356	100.000	101.0445
	42 2-Chloroethylvinylether	63	14.255	14.255	(1.141)	435671	100.000	98.4504
	43 cis-1,3-Dichloropropene	75	14.610	14.610	(1.170)	1653219	100.000	99.0804
	44 Tetramethyl THF	43	14.728	14.728	(1.179)	2317432	100.000	91.6883
	45 4-Methyl-2-Pentanone	43	14.797	14.797	(1.185)	1302653	100.000	87.3357
$	46 Toluene-d8	98	15.142	15.142	(1.212)	3069428	50.0000	49.8018
	47 Toluene	92	15.271	15.271	(1.223)	2248943	100.000	100.0671
	48 trans-1,3-Dichloropropene	75	15.547	15.547	(1.245)	1468660	100.000	98.2342
	49 1,1,2-Trichloroethane	85	15.911	15.911	(1.274)	527369	100.000	98.2067
	50 1,3-Dichloropropane	76	16.237	16.237	(0.914)	1612205	100.000	95.2304
	51 2-Hexanone	43	16.276	16.276	(0.917)	773959	100.000	100.1780
	52 Tetrachloroethene	166	16.286	16.286	(0.917)	882308	100.000	102.0804
	53 Dibromochloromethane	129	16.680	16.680	(0.939)	1020433	100.000	103.0124(H)
	54 1,2-Dibromoethane	107	16.947	16.947	(1.357)	1028711	100.000	98.3757
*	55 Chlorobenzene-d5	117	17.755	17.755	(1.000)	2368616	50.0000	
	56 Chlorobenzene	112	17.814	17.814	(1.003)	2335307	100.000	96.2462
	57 1,1,1,2-Tetrachloroethane	131	17.913	17.913	(1.009)	808259	100.000	100.5773
	58 Ethylbenzene	91	17.962	17.962	(1.012)	4000542	100.000	97.0751
	59 m,p-Xylenes	106	18.159	18.159	(1.023)	2647772	200.000	188.8650
	60 o-Xylene	106	18.889	18.889	(1.064)	1267025	100.000	93.5022
	61 Styrene	104	18.898	18.898	(1.064)	2253821	100.000	96.0639
	62 Bromoform	173	19.283	19.283	(1.086)	709613	100.000	98.2203
	63 Isopropylbenzene	105	19.529	19.529	(0.891)	3460174	100.000	100.4666
	64 Cyclohexanone	55	19.727	19.727	(0.900)	1187331	1000.00	998.2723
$	65 Bromofluorobenzene	95	19.835	19.835	(0.905)	1239446	50.0000	50.5510
	66 1,1,2,2-Tetrachloroethane	83	20.003	20.003	(0.912)	1303156	100.000	94.5209
	67 1,2,3-Trichloropropane	110	20.121	20.121	(0.918)	305198	100.000	94.0709
	68 Bromobenzene	156	20.160	20.160	(0.920)	980432	100.000	98.7156
	69 Propylbenzene	91	20.269	20.269	(0.924)	3998554	100.000	99.6590
	70 2-Chlorotoluene	91	20.476	20.476	(0.934)	2439587	100.000	96.7711
	71 1,3,5-Trimethylbenzene	105	20.555	20.555	(0.938)	1985103	100.000	97.8258
	72 4-Chlorotoluene	91	20.663	20.663	(0.942)	2382403	100.000	96.6421
	73 tert-Butylbenzene	119	21.166	21.166	(0.965)	2120038	100.000	99.9992
	74 1,2,4-Trimethylbenzene	105	21.245	21.245	(0.969)	1794211	100.000	96.2345
	75 sec-Butylbenzene	105	21.560	21.560	(0.983)	3259993	100.000	103.1825
	76 para-Isopropyl Toluene	119	21.787	21.787	(0.994)	2258067	100.000	101.8151

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB19.D
Report Date: 04-Aug-2004 11:13

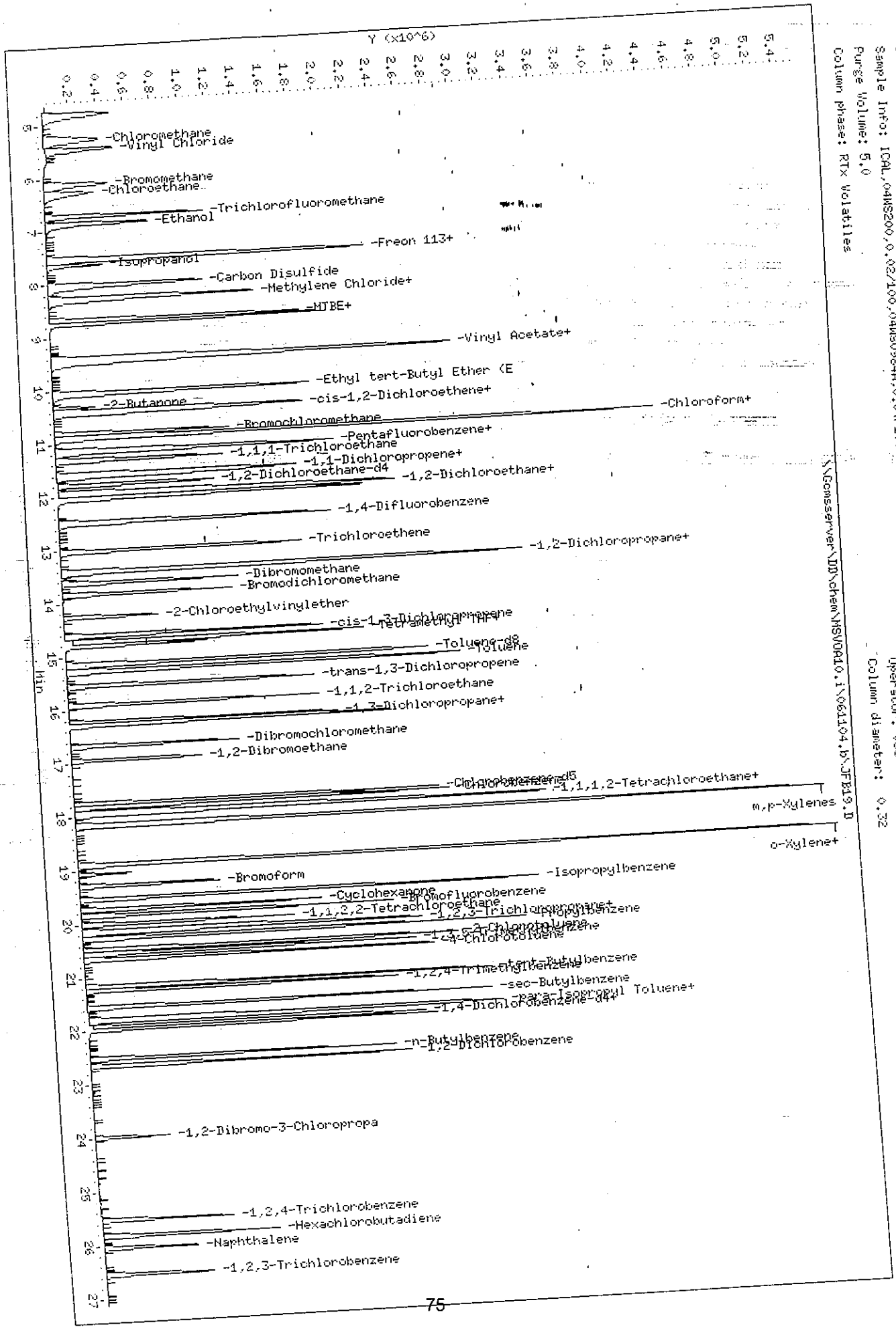
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	21.817	21.817	(0.995)	1471156	100.000	95.2995
* 78 1,4-Dichlorobenzene-d4	152	21.925	21.925	(1.000)	977377	50.0000	
79 1,4-Dichlorobenzene	146	21.964	21.964	(1.002)	1458593	100.000	94.7609
80 n-Butylbenzene	91	22.516	22.516	(1.027)	1920448	100.000	101.9746
81 1,2-Dichlorobenzene	146	22.645	22.645	(1.033)	1405973	100.000	96.6888
82 1,2-Dibromo-3-Chloropropane	75	23.976	23.976	(1.094)	194555	100.000	90.0077
83 1,2,4-Trichlorobenzene	180	25.523	25.523	(1.164)	474544	100.000	91.0896
84 Hexachlorobutadiene	225	25.819	25.819	(1.178)	412887	100.000	105.0337
85 Naphthalene	128	26.046	26.046	(1.188)	911107	100.000	100.6452
86 1,2,3-Trichlorobenzene	180	26.539	26.539	(1.210)	431413	100.000	101.0204

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: \\Comserver\DD\chem\MSV0A10.i\061104.b\JFB19.D
Date : 11-JUN-2004 22:32
Client ID: BYNA P&T
Sample Info: ICAL,04WS200,0.02/100,04WS09844,0.04/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSV0A10.i
Operator: WOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB20.D
Report Date: 04-Aug-2004 11:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB20.D
Lab Smp Id: bfb SW846 2/88
Inj Date : 11-JUN-2004 23:09
Operator : VOC
Smp Info : ICAL,04WS200,0.04/100,04SS83,0.04/100
Misc Info : 04WS1033A,0.02/100, 200PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\826GOX10.m
Meth Date : 04-Aug-2004 11:07 target
Cal Date : 11-JUN-2004 23:09
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 19-DEC-2003 16:05
Inst ID: MSVOA10.i
Quant Type: ISTD
Cal File: JFB20.D
Calibration Sample, Level: 5
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.793	4.791	(0.431)	3519868	200.000	198.8987
2 Chloromethane	50	5.286	5.284	(0.475)	3528237	200.000	182.7605
3 Vinyl Chloride	62	5.453	5.452	(0.490)	3090483	200.000	202.6932
4 Bromomethane	94	6.104	6.112	(0.548)	2146379	200.000	199.9768
5 Chloroethane	64	6.272	6.270	(0.563)	1969187	200.000	199.8871
6 Trichlorofluoromethane	101	6.715	6.714	(0.603)	2862242	200.000	216.3677
7 Ethanol	45	6.873	6.861	(0.617)	12289	20000.0	70.1106
8 Freon 113	101	7.504	7.512	(0.674)	14068	200.000	2.5403
10 1,1-Dichloroethene	96	7.543	7.552	(0.678)	1899511	200.000	208.8275
12 Carbon Disulfide	76	7.997	8.015	(0.718)	22156	200.000	0.5774
13 Methylene Chloride	84	8.283	8.271	(0.744)	3259	200.000	0.2583
14 tert-Butyl Alcohol (TBA)	59	8.273	8.271	(0.743)	3997	2000.00	4.0073
15 MTBE	73	8.677	8.685	(0.779)	5714060	200.000	177.2651
16 trans-1,2-Dichloroethene	96	8.726	8.735	(0.784)	3566	200.000	0.3246
17 Vinyl Acetate	43	9.377	9.385	(0.842)	8448	200.000	0.2227
18 1,1-Dichloroethane	63	9.416	9.425	(0.846)	3908	200.000	0.1970
22 cis-1,2-Dichloroethene	96	10.383	10.391	(0.933)	3163	200.000	0.2703
23 2,2-Dichloropropane	77	10.422	10.440	(0.936)	2769	200.000	0.2117
24 Bromochloromethane	128	10.797	10.815	(0.970)	920	200.000	0.1528
25 Chloroform	83	10.885	10.884	(0.978)	4914	200.000	0.2688
* 27 Pentafluorobenzene	168	11.132	11.140	(1.000)	1832688	50.0000	
$ 28 Dibromofluoromethane	113	11.151	11.160	(1.002)	1097578	50.0000	49.8344

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB20.D
Report Date: 04-Aug-2004 11:13

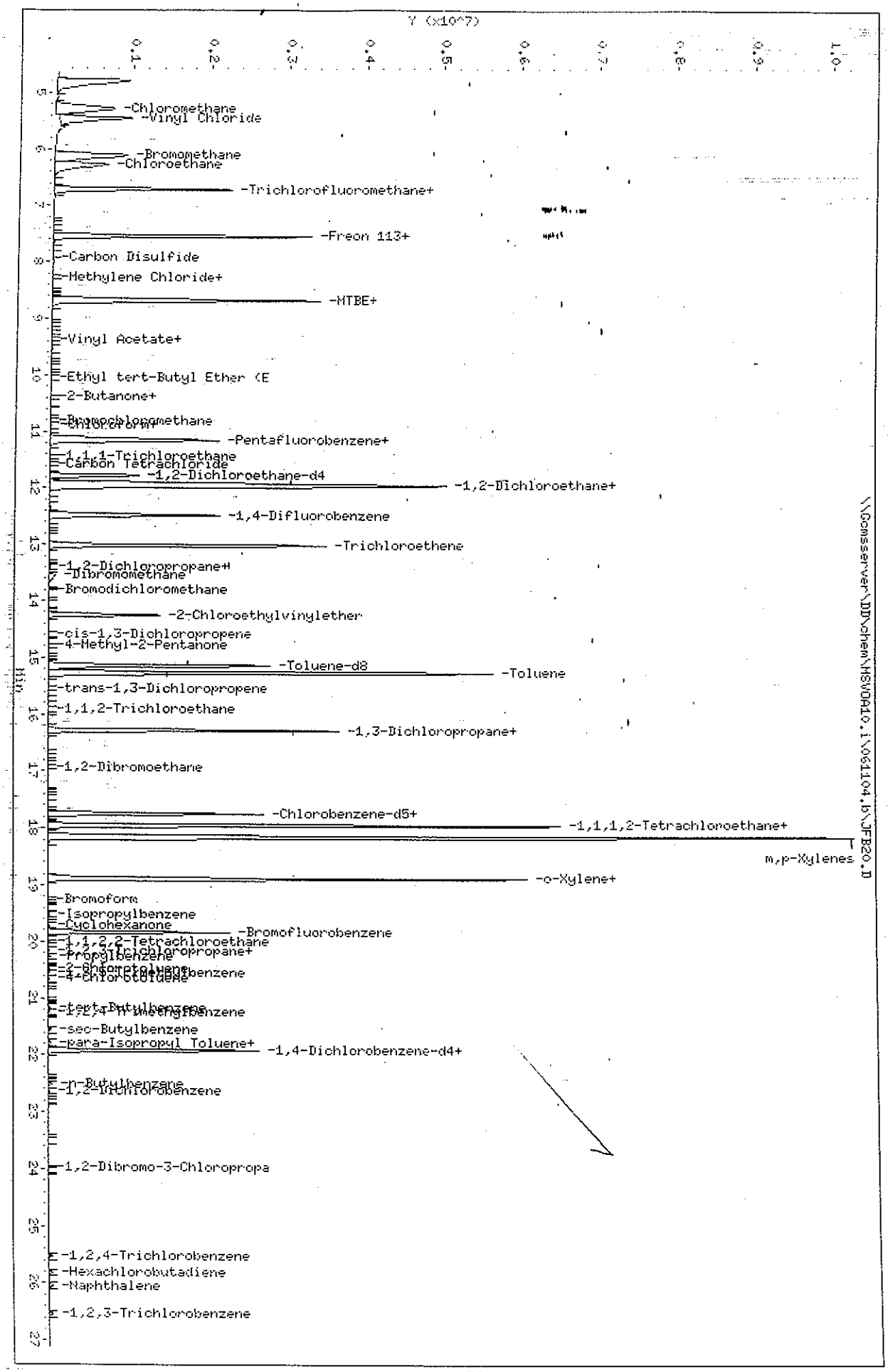
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	29 1,1,1-Trichloroethane	97	11.319	11.317	(1.017)	2632	200.000	0.2115
	31 Carbon Tetrachloride	117	11.615	11.623	(0.930)	2540	200.000	0.2579
$	32 1,2-Dichloroethane-d4	65	11.782	11.781	(0.944)	1116772	50.0000	49.2061
	33 1,2-Dichloroethane	62	11.911	11.909	(0.954)	2619366	200.000	190.8161
	34 Benzene	78	11.950	11.958	(0.957)	7489734	200.000	186.2952
	35 Methyl tert-Amyl Ether (TAME)	73	11.960	12.027	(0.958)	128103	200.000	3.9337
*	36 1,4-Difluorobenzene	114	12.482	12.491	(1.000)	3021749	50.0000	
	37 Trichloroethene	95	13.015	13.023	(1.043)	1931069	200.000	194.0978
	38 1,2-Dichloropropane	63	13.409	13.407	(1.074)	2607	200.000	0.2128
$	39 Trifluorotoluene	146	13.409	13.407	(1.074)	6056	200.000	0.4589
	40 Dibromomethane	93	13.616	13.614	(1.091)	1554	200.000	0.2006
	41 Bromodichloromethane	83	13.833	13.831	(1.108)	2278	200.000	0.1888
	42 2-Chloroethylvinylether	63	14.257	14.255	(1.142)	896216	200.000	200.5614
	43 cis-1,3-Dichloropropene	75	14.602	14.610	(1.170)	4258	200.000	0.2527
	45 4-Methyl-2-Pentanone	43	14.789	14.797	(1.185)	4085	200.000	0.2712
$	46 Toluene-d8	98	15.144	15.142	(1.213)	3106979	50.0000	49.9231
	47 Toluene	92	15.272	15.271	(1.223)	4384179	200.000	199.9803
	48 trans-1,3-Dichloropropene	75	15.548	15.547	(1.246)	3613	200.000	0.2393
	49 1,1,2-Trichloroethane	85	15.903	15.911	(1.274)	1221	200.000	0.2251
	50 1,3-Dichloropropane	76	16.229	16.237	(0.914)	3997	200.000	0.2320
	52 Tetrachloroethene	166	16.288	16.286	(0.917)	1760261	200.000	200.1697
	53 Dibromochloromethane	129	16.288	16.680	(0.917)	1311951	200.000	130.1732
	54 1,2-Dibromoethane	107	16.938	16.947	(1.357)	3131	200.000	0.2965
*	55 Chlorobenzene-d5	117	17.757	17.755	(1.000)	2409882	50.0000	
	56 Chlorobenzene	112	17.806	17.814	(1.003)	8678	200.000	0.3515
	57 1,1,1,2-Tetrachloroethane	131	17.914	17.913	(1.009)	1896	200.000	0.2318
	58 Ethylbenzene	91	17.954	17.962	(1.011)	7778090	200.000	185.5073
	59 m,p-Xylenes	106	18.161	18.159	(1.023)	5060674	400.000	354.7956
	60 o-Xylene	106	18.890	18.889	(1.064)	2636385	200.000	191.2250
	61 Styrene	104	18.890	18.898	(1.064)	137921	200.000	5.7779
	62 Bromoform	173	19.275	19.283	(1.085)	2611	200.000	0.3552
	63 Isopropylbenzene	105	19.531	19.529	(0.891)	22009	200.000	0.6010
	64 Cyclohexanone	55	19.718	19.727	(0.900)	10563	2000.00	8.5789
$	65 Bromofluorobenzene	95	19.837	19.835	(0.905)	1282658	50.0000	49.2029
	66 1,1,2,2-Tetrachloroethane	83	20.004	20.003	(0.913)	4602	200.000	0.3139
	67 1,2,3-Trichloropropane	110	20.123	20.121	(0.918)	812	200.000	0.2354
	68 Bromobenzene	156	20.152	20.160	(0.919)	4209	200.000	0.3985
	69 Propylbenzene	91	20.261	20.269	(0.924)	31695	200.000	0.7429
	70 2-Chlorotoluene	91	20.477	20.476	(0.934)	13550	200.000	0.5055
	71 1,3,5-Trimethylbenzene	105	20.556	20.555	(0.938)	15695	200.000	0.7274
	72 4-Chlorotoluene	91	20.655	20.663	(0.942)	16232	200.000	0.6192
	73 tert-Butylbenzene	119	21.168	21.166	(0.966)	18739	200.000	0.8313
	74 1,2,4-Trimethylbenzene	105	21.246	21.245	(0.969)	16236	200.000	0.8190
	75 sec-Butylbenzene	105	21.552	21.560	(0.983)	41492	200.000	1.2351
	76 para-Isopropyl Toluene	119	21.779	21.787	(0.994)	30914	200.000	1.3110
	77 1,3-Dichlorobenzene	146	21.818	21.817	(0.996)	13044	200.000	0.7947
*	78 1,4-Dichlorobenzene-d4	152	21.917	21.925	(1.000)	1039166	50.0000	
	79 1,4-Dichlorobenzene	146	21.966	21.964	(1.002)	13419	200.000	0.8199
	80 n-Butylbenzene	91	22.508	22.516	(1.027)	38138	200.000	1.9046
	81 1,2-Dichlorobenzene	146	22.646	22.645	(1.033)	11289	200.000	0.7301
	82 1,2-Dibromo-3-Chloropropane	75	23.977	23.976	(1.094)	1515	200.000	0.6592
	83 1,2,4-Trichlorobenzene	180	25.525	25.523	(1.165)	18960	200.000	3.4230
	84 Hexachlorobutadiene	225	25.821	25.819	(1.178)	13123	200.000	3.1398
	85 Naphthalene	128	26.038	26.046	(1.188)	63231	200.000	5.8203

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\061104.b\JFB20.D
Report Date: 04-Aug-2004 11:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
86 1,2,3-Trichlorobenzene	180	26.540	26.539	(1.211)	22484	200.000	4.6421

Data File: \\Gcmsserver\DD\chem\MSV0A10.i\061104.b\JFB20.D
Date : 11-JUN-2004 23:09
Client ID: DYNA P&T
Sample Info: ICAL,04WS200,0.04/100,04SS83,0.04/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSV0A10.i
Operator: WDC
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name : Injected : 11-JUN-2004 23:44
Seqnum : 494235371021 Filename : jfb21 Caltype : WATER
Calnum : 494235371003 Caldate : 11-JUN-2004
Standards: 04WS1015A (5000X), 04WS0935A (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	37.37400	ug/L	-25	30	!v-
Chloromethane	50.00000	45.14400	ug/L	-10	30	
Vinyl Chloride	50.00000	50.67690	ug/L	1	20	
Bromomethane	50.00000	51.01930	ug/L	2	30	
Chloroethane	50.00000	49.51240	ug/L	-1	30	
Trichlorofluoromethane	50.00000	57.13650	ug/L	14	30	
Dibromofluoromethane	50.00000	49.43710	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	48.79620	ug/L	-2	30	
Toluene-d8	50.00000	50.25290	ug/L	1	30	
Bromofluorobenzene	50.00000	53.99420	ug/L	8	30	

ISTD (ICAL=jfb18)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1785578	1873217	4.91	11.14	11.14	0.00
1,4-Difluorobenzene	2962959	3110793	4.99	12.49	12.48	-0.01
Chlorobenzene-d5	2348674	2485614	5.33	17.76	17.76	0.00
1,4-Dichlorobenzene-d4	952203	945299	-0.72	21.92	21.93	0.01

6/8/04

06/08/04

!=warning -=low bias v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494235371022 Filename : jfb22 Injected : 12-JUN-2004 00:20
Calnum : 494235371003 Caldate : 11-JUN-2004 Caltype : WATER
Standards: 04WS1032A (5000X), 04WS0843B (5000X), 04WS0985A (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	53.23680	ug/L	6	40	
Freon 113	50.00000	48.59030	ug/L	-3	30	
1,1-Dichloroethene	50.00000	48.94720	ug/L	-2	20	
Methylene Chloride	50.00000	46.56200	ug/L	-7	30	
Carbon Disulfide	50.00000	42.21480	ug/L	-16	30	
MTBE	100.0000	98.77020	ug/L	-1	30	
trans-1,2-Dichloroethene	50.00000	46.76870	ug/L	-6	30	
Vinyl Acetate	50.00000	43.34080	ug/L	-13	40	
1,1-Dichloroethane	50.00000	48.10780	ug/L	-4	30	
2-Butanone	50.00000	49.83160	ug/L	0	40	
2,2-Dichloropropane	50.00000	49.30970	ug/L	-1	30	
cis-1,2-Dichloroethene	50.00000	48.55650	ug/L	-3	30	
Chloroform	50.00000	47.32960	ug/L	-5	20	
Bromochloromethane	50.00000	48.38380	ug/L	-3	30	
1,1,1-Trichloroethane	50.00000	52.15950	ug/L	4	30	
1,1-Dichloropropene	50.00000	49.99520	ug/L	0	30	
Carbon Tetrachloride	50.00000	53.64490	ug/L	7	30	
1,2-Dichloroethane	50.00000	48.74250	ug/L	-3	30	
Benzene	50.00000	49.53600	ug/L	-1	30	
Trichloroethene	50.00000	50.85830	ug/L	2	30	
1,2-Dichloropropane	50.00000	46.82190	ug/L	-6	20	
Bromodichloromethane	50.00000	55.93590	ug/L	12	30	
Dibromomethane	50.00000	48.59100	ug/L	-3	30	
2-Chloroethylvinylether	50.00000	8.873600	ug/L	-82	40	v- ***
4-Methyl-2-Pentanone	50.00000	44.72500	ug/L	-11	40	
Tetramethyl THF	50.00000	48.39470	ug/L	-3	30	
cis-1,3-Dichloropropene	50.00000	49.78590	ug/L	0	30	
Toluene	50.00000	49.60690	ug/L	-1	20	
trans-1,3-Dichloropropene	50.00000	46.47960	ug/L	-7	30	
1,1,2-Trichloroethane	50.00000	50.66770	ug/L	1	30	
2-Hexanone	50.00000	51.13060	ug/L	2	40	
1,3-Dichloropropane	50.00000	48.47760	ug/L	-3	30	
Tetrachloroethene	50.00000	50.66790	ug/L	1	30	
Dibromochloromethane	50.00000	50.92180	ug/L	2	30	
1,2-Dibromoethane	50.00000	49.75490	ug/L	0	30	
Chlorobenzene	50.00000	48.35480	ug/L	-3	30	
1,1,1,2-Tetrachloroethane	50.00000	50.95450	ug/L	2	30	
Ethylbenzene	50.00000	49.57160	ug/L	-1	20	
m,p-Xylenes	100.0000	94.94660	ug/L	-5	30	
o-Xylene	50.00000	46.62640	ug/L	-7	30	
Styrene	50.00000	48.84050	ug/L	-2	30	
Bromoform	50.00000	49.63480	ug/L	-1	30	
Isopropylbenzene	50.00000	46.36370	ug/L	-7	30	
1,1,2,2-Tetrachloroethane	50.00000	49.52220	ug/L	-1	30	
1,2,3-Trichloropropane	50.00000	51.03650	ug/L	2	30	
Propylbenzene	50.00000	49.74980	ug/L	-1	30	
Bromobenzene	50.00000	50.73890	ug/L	1	30	

-=low bias v=ICV
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494235371022 Filename : jfb22 Injected : 12-JUN-2004 00:2
Calnum : 494235371003 Caldate : 11-JUN-2004 Caltype : WATER
Standards: 04WS1032A (5000X), 04WS0843B (5000X), 04WS0985A (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags	
1,3,5-Trimethylbenzene	50.00000	47.87970	ug/L	-4	30		
2-Chlorotoluene	50.00000	43.80740	ug/L	-2	30		
4-Chlorotoluene	50.00000	47.47490	ug/L	-5	30		
tert-Butylbenzene	50.00000	50.31840	ug/L	1	30		
1,2,4-Trimethylbenzene	50.00000	46.68690	ug/L	-7	30		
sec-Butylbenzene	50.00000	51.38710	ug/L	3	30		
para-Isopropyl Toluene	50.00000	48.04230	ug/L	-4	30		
1,3-Dichlorobenzene	50.00000	47.41890	ug/L	-5	30		
1,4-Dichlorobenzene	50.00000	46.80710	ug/L	-6	30		
n-Butylbenzene	50.00000	48.80650	ug/L	-2	30		
1,2-Dichlorobenzene	50.00000	47.81980	ug/L	-4	30		
1,2-Dibromo-3-Chloropropane	50.00000	48.90110	ug/L	-2	30		
1,2,4-Trichlorobenzene	50.00000	43.02510	ug/L	-14	30		
Hexachlorobutadiene	50.00000	51.46640	ug/L	3	30		
Naphthalene	50.00000	48.54000	ug/L	-3	30		
1,2,3-Trichlorobenzene	50.00000	48.07830	ug/L	-4	30		
tert-Butyl Alcohol (TBA)	250.0000	258.9637	ug/L	4	30		
Isopropyl Ether (DIPE)	50.00000	49.97250	ug/L	0	30		
Ethyl tert-Butyl Ether (ETBE)	50.00000	50.96910	ug/L	2	30		
Methyl tert-Amyl Ether (TAME)	50.00000	48.70850	ug/L	-3	30		
Cyclohexanone	550.0000	128.1795	ug/L	-77	30	v- ***	
Ethanol	5000.000	4891.191	ug/L	-2	30		
Isopropanol	500.0000	529.4591	ug/L	6	30		
Tetrahydrofuran	500.0000	556.9297	ug/L	11	30		
Dibromofluoromethane	50.00000	49.98950	ug/L	0	30		(NOT USED)
1,2-Dichloroethane-d4	50.00000	49.69540	ug/L	-1	30		(NOT USED)
Toluene-d8	50.00000	49.56280	ug/L	-1	30		(NOT USED)
Bromofluorobenzene	50.00000	51.17610	ug/L	2	30		(NOT USED)

ISTD (ICAL=jfb18)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1785578	1857918	4.05	11.14	11.14	0.00
1,4-Difluorobenzene	2962959	3099170	4.60	12.49	12.48	-0.01
Chlorobenzene-d5	2348674	2448618	4.26	17.76	17.76	0.00
1,4-Dichlorobenzene-d4	952202	996410	4.64	21.92	21.92	0.00

-=low bias v=ICV
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name : 25PPB IDF : 1.0
Seqnum : 494334661002 Filename : jhj02 Injected : 19-AUG-2004 10:11
Calnum : 494235371003 Caldate : 11-JUN-2004 Caltype : WATER
Standards: 04WS1452B (20000X), 04WS1412A (10000X), 04WS1435B (40000X), 04WS1216C (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4300	0.3252	25.00000	17.25150	ug/L	-31	30	0.0500	c- m **
Chloromethane	0.5267	0.4267	25.00000	20.25570	ug/L	-19	30	0.1000	
Vinyl Chloride	0.4160	0.3877	25.00000	23.30150	ug/L	-7	20	0.0500	
Bromomethane	0.2388	0.0922	25.00000	9.885300	ug/L	-60	30	0.0500	c- ***
Chloroethane	0.2688	0.2430	25.00000	22.59820	ug/L	-10	30	0.0500	
Trichlorofluoromethane	0.3609	0.3434	25.00000	23.78690	ug/L	-5	30	0.0500	
Acetone	0.1818	0.0963	25.00000	18.66050	ug/L	-25	40	0.0500	
Freon 113	0.2427	0.2051	25.00000	19.19140	ug/L	-23	30	0.0500	!c-
1,1-Dichloroethene	0.2482	0.2332	25.00000	23.49020	ug/L	-6	20	0.0500	
Methylene Chloride	0.3442	0.3125	25.00000	22.69440	ug/L	-9	30	0.0500	
Carbon Disulfide	1.0467	0.8904	25.00000	21.26660	ug/L	-15	30	0.0500	
MTBE	0.8794	0.7631	25.00000	21.69400	ug/L	-13	30	0.0500	
trans-1,2-Dichloroethene	0.2996	0.2668	25.00000	22.25730	ug/L	-11	30	0.0500	
Vinyl Acetate	1.0347	1.1423	25.00000	27.59930	ug/L	10	40	0.0500	
1,1-Dichloroethane	0.5410	0.4915	25.00000	22.71250	ug/L	-9	30	0.1000	
2-Butanone	0.2027	0.1510	25.00000	20.73240	ug/L	-17	40	0.0500	
2,2-Dichloropropane	0.3567	0.3108	25.00000	21.78420	ug/L	-13	30	0.0500	
cis-1,2-Dichloroethene	0.3192	0.2855	25.00000	22.35420	ug/L	-11	30	0.0500	
Chloroform	0.4987	0.4257	25.00000	21.33750	ug/L	-15	20	0.0500	
Bromochloromethane	0.1643	0.1480	25.00000	22.52310	ug/L	-10	30	0.0500	
1,1,1-Trichloroethane	0.3369	0.2952	25.00000	21.90880	ug/L	-12	30	0.0500	
1,1-Dichloropropene	0.2153	0.2025	25.00000	23.61170	ug/L	-6	30	0.0500	
Carbon Tetrachloride	0.1629	0.1509	25.00000	23.15360	ug/L	-7	30	0.0500	
1,2-Dichloroethane	0.2271	0.1911	25.00000	21.02900	ug/L	-16	30	0.0500	
Benzene	0.6652	0.6435	25.00000	24.18360	ug/L	-3	30	0.0500	
Trichloroethene	0.1646	0.1524	25.00000	23.14000	ug/L	-7	30	0.0500	
1,2-Dichloropropane	0.2027	0.1813	25.00000	22.36600	ug/L	-11	20	0.0500	
Bromodichloromethane	0.1996	0.1895	25.00000	23.72590	ug/L	-5	30	0.0500	
Dibromomethane	0.1281	0.1150	25.00000	22.43930	ug/L	-10	30	0.0500	
2-Chloroethylvinylether	0.0739	0.0855	25.00000	28.89400	ug/L	16	40	0.0500	
4-Methyl-2-Pentanone	0.2492	0.2114	25.00000	21.20240	ug/L	-15	40	0.0500	
Tetramethyl THF	0.4223	0.3618	25.00000	21.41790	ug/L	-14	30	0.0500	
cis-1,3-Dichloropropene	0.2788	0.2515	25.00000	22.55350	ug/L	-10	30	0.0500	
Toluene	0.4172	0.3709	25.00000	23.83200	ug/L	-5	20	0.0500	
trans-1,3-Dichloropropene	0.2498	0.2211	25.00000	22.13050	ug/L	-11	30	0.0500	
1,1,2-Trichloroethane	0.0897	0.0844	25.00000	23.52040	ug/L	-6	30	0.0500	
2-Hexanone	0.2030	0.1574	25.00000	22.13930	ug/L	-11	40	0.0500	
1,3-Dichloropropane	0.3574	0.3234	25.00000	22.62230	ug/L	-10	30	0.0500	
Tetrachloroethene	0.1825	0.1817	25.00000	24.90340	ug/L	0	30	0.0500	
Dibromochloromethane	0.2091	0.1905	25.00000	22.77900	ug/L	-9	30	0.0500	
1,2-Dibromoethane	0.1747	0.1627	25.00000	23.27860	ug/L	-7	30	0.0500	
Chlorobenzene	0.5122	0.4975	25.00000	24.28200	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1696	0.1636	25.00000	24.10610	ug/L	-4	30	0.0500	
Ethylbenzene	0.8699	0.7935	25.00000	22.80360	ug/L	-9	20	0.0500	
m,p-Xylenes	0.2959	0.2528	50.00000	42.71560	ug/L	-15	30	0.0500	
o-Xylene	0.2860	0.2476	25.00000	21.63890	ug/L	-13	30	0.0500	

!=warning -=low bias c=CCV m=manual integration
Page 1 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name : 25PPB IDF : 1.0
Seqnum : 494334661002 Filename : jhj02 Injected : 19-AUG-2004 10:11
Calnum : 494235371003 Caldate : 11-JUN-2004 Caltype : WATER
Standards: 04WS1452B (20000X), 04WS1412A (10000X), 04WS1435B (40000X), 04WS1216C (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.4953	0.4320	25.00000	21.80820	ug/L	-13	30	0.0500	
Bromoform	0.1525	0.1399	25.00000	22.93950	ug/L	-8	30	0.1000	
Isopropylbenzene	1.7619	1.8813	25.00000	26.69330	ug/L	7	30	0.0500	
1,1,2,2-Tetrachloroethane	0.7053	0.7978	25.00000	28.27990	ug/L	13	30	0.3000	
1,2,3-Trichloropropane	0.1660	0.1890	25.00000	28.47490	ug/L	14	30	0.0500	
Propylbenzene	2.0526	1.9900	25.00000	24.23820	ug/L	-3	30	0.0500	
Bromobenzene	0.5081	0.5737	25.00000	28.22810	ug/L	13	30	0.0500	
1,3,5-Trimethylbenzene	1.0381	0.9656	25.00000	23.25400	ug/L	-7	30	0.0500	
2-Chlorotoluene	1.2897	1.2999	25.00000	25.19880	ug/L	1	30	0.0500	
4-Chlorotoluene	1.2611	1.2008	25.00000	23.80360	ug/L	-5	30	0.0500	
tert-Butylbenzene	1.0846	1.0348	25.00000	23.85300	ug/L	-5	30	0.0500	
1,2,4-Trimethylbenzene	0.9538	0.8476	25.00000	22.21580	ug/L	-11	30	0.0500	
sec-Butylbenzene	1.6163	1.5745	25.00000	24.35440	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	1.1346	1.0324	25.00000	22.74830	ug/L	-9	30	0.0500	
1,3-Dichlorobenzene	0.7897	0.7896	25.00000	24.99750	ug/L	0	30	0.0500	
1,4-Dichlorobenzene	0.7874	0.7643	25.00000	24.26490	ug/L	-3	30	0.0500	
n-Butylbenzene	0.9634	0.8295	25.00000	21.52380	ug/L	-14	30	0.0500	
1,2-Dichlorobenzene	0.7439	0.7450	25.00000	25.03830	ug/L	0	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1106	0.1052	25.00000	23.77500	ug/L	-5	30	0.0500	
1,2,4-Trichlorobenzene	0.2665	0.2405	25.00000	22.56020	ug/L	-10	30	0.0500	
Hexachlorobutadiene	0.2011	0.1876	25.00000	23.31770	ug/L	-7	30	0.0500	
Naphthalene	0.5234	0.5441	25.00000	28.80370	ug/L	15	30	0.0500	
1,2,3-Trichlorobenzene	0.2460	0.2220	25.00000	25.15950	ug/L	1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0272	0.0234	250.0000	214.7815	ug/L	-14	30	0.0050	
Isopropyl Ether (DIPE)	1.2173	1.0633	25.00000	21.83750	ug/L	-13	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	0.9630	0.8277	25.00000	21.48850	ug/L	-14	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.5388	0.4930	25.00000	22.87440	ug/L	-9	30	0.0500	
Cyclohexanone	0.0740	0.0288	250.0000	85.01170	ug/L	-66	30	0.0050	c- ***
Ethanol	0.0048	0.0043	2500.000	2245.828	ug/L	-10	30	5.0E-4	
Isopropanol	0.0251	0.0191	250.0000	203.8012	ug/L	-18	30	0.0050	
Tetrahydrofuran	0.1091	0.0932	250.0000	231.7339	ug/L	-7	30	0.0050	
Dibromofluoromethane	0.6009	0.5270	50.00000	43.85360	ug/L	-12	30	0.0500	
1,2-Dichloroethane-d4	0.3755	0.3124	50.00000	41.58700	ug/L	-17	30	0.0500	
Trifluorotoluene	0.2184	0.2255	25.00000	25.82390	ug/L	3	30	0.0500	
Toluene-d8	1.0298	0.9879	50.00000	47.96600	ug/L	-4	30	0.0500	
Bromofluorobenzene	1.2543	1.3748	50.00000	54.80450	ug/L	10	30	0.0500	

ISTD (ICAL=jfb18)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1785578	2634185	47.53	11.14	11.13	-0.01
1,4-Difluorobenzene	2962959	4236354	42.98	12.49	12.47	-0.02
Chlorobenzene-d5	2348674	3339912	42.20	17.76	17.75	-0.01
1,4-Dichlorobenzene-d4	952202	1132824	18.97	21.92	21.92	0.00

8/20/04

8/19/04

!=warning -=low bias c=CCV m=manual integration
Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 19-AUG-2004
Sequence: 494334661 (jhj)
Instrument ID: MSVOA10

ICAL Filename: jfb18
Date Analyzed: 11-JUN-2004
Time Analyzed: 21:57

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1785578	11.14	2962959	12.49	2348674	17.76	952202	21.92
LOWER LIMIT	892789	10.64	1481480	11.99	1174337	17.26	476101	21.42
UPPER LIMIT	3571156	11.64	5925918	12.99	4697348	18.26	1904404	22.42

TYPE	SAMPLE	#								
CCV	25PPB	002	2634185	11.13	4236354	12.47	3339912	17.75	1132824	21.92
BS	QC261729	003	2505931	11.13	4019774	12.47	3152403	17.75	1093824	21.92
BSD	QC261730	004	2471361	11.13	3961725	12.48	3153345	17.75	1151186	21.92
BLANK	QC261731	006	2400393	11.13	3853809	12.48	3005055	17.75	963116	21.92
SAMPLE	174058-003	007	2381168	11.14	3861045	12.48	3030822	17.75	968774	21.91
SAMPLE	174062-002	008	2355613	11.14	3794457	12.48	3017653	17.75	922511	21.92
SAMPLE	174062-003	009	2352499	11.13	3798834	12.48	2964061	17.75	874185	21.91
SAMPLE	174062-004	010	2396737	11.13	3841474	12.48	3035245	17.75	974103	21.91
SAMPLE	174062-005	011	2363889	11.13	3824332	12.48	2987597	17.76	908911	21.92
SAMPLE	174074-002	012	2362773	11.14	3831423	12.48	3000170	17.75	917560	21.92
SAMPLE	174040-003	013	2324880	11.14	3756631	12.48	2950627	17.76	896647	21.92
SAMPLE	174103-002	014	2397590	11.13	3854125	12.48	3029192	17.75	935551	21.91
SAMPLE	174103-001	015	2311802	11.14	3712904	12.49	2920382	17.75	967069	21.91
SAMPLE	174055-003	016	2333846	11.14	3808960	12.48	2989440	17.75	928992	21.92

8/20/04

MSVOA10 8260 + GAS0x W. ICAL (reprocessed)

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 11-JUN-2004

Sequence: 494235371 Instrument: MSVOA10 HP GCMS VOA 10
Analytical Method: EPA 8260B SOP Version: 8260B rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	jfb01	TUN	BFB			11-JUN-2004 10:51	1.0					1	
002	jfb02	CCV	50PPB			11-JUN-2004 11:10	1.0	6	5000			2 3 4 cc-	
003	jfb03	TUN	BFB			11-JUN-2004 11:42	1.0					1	
004	jfb04	CCV	50PPB			11-JUN-2004 12:00	1.0	4	5000			2 3 4 cc-	
005	jfb05	X	IB			11-JUN-2004 14:35	1.0					4	
006	jfb06	X	IB			11-JUN-2004 15:11	1.0					4	
007	jfb07	X	IB			11-JUN-2004 15:47	1.0					4	
008	jfb08	TUN	BFB			11-JUN-2004 16:50	1.0					1	
009	jfb09	TUN	BFB			11-JUN-2004 17:15	1.0					1	
010	jfb10	TUN	BFB			11-JUN-2004 17:29	1.0					1	
011	jfb11	X	IB			11-JUN-2004 17:47	1.0					4	
012	jfb12	X	IB			11-JUN-2004 18:22	1.0					4	
013	jfb13	X	CALIB IB			11-JUN-2004 18:58	1.0					4	
014	jfb14	ICAL	0.5/1PPB			11-JUN-2004 19:34	1.0					2 5 6 4	
015	jfb15	ICAL	5PPB			11-JUN-2004 20:09	1.0					2 5 6 4	
016	jfb16	ICAL	10PPB			11-JUN-2004 20:45	1.0					2 5 6 4	
017	jfb17	ICAL	20PPB			11-JUN-2004 21:21	1.0					2 5 6 4	
018	jfb18	ICAL	50PPB			11-JUN-2004 21:57	1.0					2 5 6 4	
019	jfb19	ICAL	100PPB			11-JUN-2004 22:32	1.0					2 5 6 4	
020	jfb20	ICAL	200PPB			11-JUN-2004 23:09	1.0					2 7 6 4	
021	jfb21	ICV				11-JUN-2004 23:44	1.0		5000			8 4	
022	jfb22	ICV				12-JUN-2004 00:20	1.0	2	5000			9 10 4	
023	jfb23	X	IB			12-JUN-2004 00:55	1.0					4	
024	jfb24	X	IB			12-JUN-2004 01:31	1.0					4	
025	jfb25	X	IB			12-JUN-2004 02:08	1.0					4	

ICAL - 6000 - reprocessed to include MeCl2 to 0.5 ppb as of 8/4/04
ICV - 2Cl-et, Cyclohex + A.C.E. limit - FR

Stds used: 1=04WS0483 2=04SS200 3=04WS0870A 4=04WS0985A 5=04WS0984A 6=04WS1033A 7=04SS83 8=04WS1015A 9=04WS1032A 10=04WS0843B
Flags used: -=low bias cc=CCV CCC failure

Analyst: [signature] Date: 8/4/04

Page 1 of 1

8/4/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 494334661 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 19-AUG-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	jhj01	TUN	BFB			19-AUG-2004 09:41	1.0						1	
002	jhj02	CCV	25PPB			19-AUG-2004 10:11	1.0	3		5000			2 3 4 5	
003	jhj03	BS	QC261729	93878	Water	19-AUG-2004 11:03	1.0	4		5000			6 7 8 5	
004	jhj04	BSD	QC261730	93878	Water	19-AUG-2004 11:38	1.0	4		5000			6 7 8 5	
005	jhj05	X	IB			19-AUG-2004 12:13	1.0						5	
006	jhj06	BLANK	QC261731	93878	Water	19-AUG-2004 12:49	1.0		1	5000			5	
007	jhj07	SAMPLE	174058-003	93878	Water	19-AUG-2004 13:25	1.0	1		5000	C	C2	5	
008	jhj08	SAMPLE	174062-002	93878	Water	19-AUG-2004 14:02	1.0	1		5000	B		5	
009	jhj09	SAMPLE	174062-003	93878	Water	19-AUG-2004 14:38	1.0	1		5000			5	
010	jhj10	SAMPLE	174062-004	93878	Water	19-AUG-2004 15:14	1.0	1		5000			5	
011	jhj11	SAMPLE	174062-005	93878	Water	19-AUG-2004 15:50	1.0	1		5000	A		5	
012	jhj12	SAMPLE	174074-002	93878	Water	19-AUG-2004 16:26	1.0	1		5000			5	ml HS
013	jhj13	SAMPLE	174040-003	93878	Water	19-AUG-2004 17:02	1.0	1	1	5000	D	5	5	
014	jhj14	SAMPLE	174103-002	93878	Water	19-AUG-2004 17:37	1.0	1		5000	A	C2	5	
015	jhj15	SAMPLE	174103-001	93878	Water	19-AUG-2004 18:15	1.0	1		5000	B		5	
016	jhj16	SAMPLE	174055-003	93878	Water	19-AUG-2004 18:51	33.33	1		5000	B		5	
017	jhj17	X	IB			19-AUG-2004 19:27	1.0						5	
018	jhj18	X	IB			19-AUG-2004 20:03	1.0						5	
019	jhj19	X	IB			19-AUG-2004 20:38	1.0						5	

ICAL - Good
ICV - 2Clevr +, cyclhx +, +A.C.E. limit - F12 +
CCV - F12 +, Brmet, Cyclhxnt +A.C.E limit - F113

Stds used: 1=04WS1238 2=04WS1452B 3=04WS1412A 4=04WS1435B 5=04WS1216C 6=04WS1541 7=04WS1544 8=04WS1384

Analyst: Date: 8/20/04

Page 1 of 1

8/20/04

REPORTING SUMMARY FOR 174074 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
				C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
				1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	F	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B	P
				2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	Z	P	1	U	H
											2					2				3						2			2			2		3	2		3																			2	3		2	2			2	3	3			
174074-002	MSVOA10	08/19/04	16:26	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261729	MSVOA10	08/19/04	11:03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261730	MSVOA10	08/19/04	11:38	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261731	MSVOA10	08/19/04	12:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

88

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 8/19
PREPPED BY.

WATER

SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
174055-3		B	<2	LV		10	AA 33.3x (TCE @ 1ED)	
174058-3		C		LV			AA 1x (CIME-)	
174074-2		A		LV/HAR			1x	
174062-2		B					1x IN FRIDGE	
-3								
-4							ix	
174040-3		D	5					
174103-1		B	<2					
-2		A					1x	
174062-5		A					1x TB	

PREPFORM.XLS

7/21/98

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	11/12/03 0.37	03/04/04 0.080	09/22/03 0.14	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	11/12/03 0.050	02/03/04 0.097	09/22/03 0.20	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	11/12/03 0.13	03/04/04 0.15	09/22/03 0.16	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	11/12/03 0.12	03/04/04 0.11	09/22/03 0.21	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	11/12/03 0.11	03/04/04 0.14	09/22/03 0.22	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	11/12/03 0.22	03/04/04 0.21	09/22/03 0.15	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	11/12/03 0.37	02/11/04 0.22	09/22/03 0.46	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	11/12/03 0.26	02/11/04 0.20	09/22/03 0.30	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	11/12/03 0.45	03/04/04 0.21	11/04/03 0.71	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	11/12/03 0.45	02/11/04 0.38	09/22/03 0.42	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	11/12/03 0.18	03/04/04 0.23	09/22/03 0.20	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L		02/25/04 1.1	09/23/03 0.76	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	11/12/03 0.098	02/03/04 0.14	09/22/03 0.17	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	11/12/03 0.12	03/04/04 0.19	09/22/03 0.25	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	11/12/03 0.11	02/11/04 0.17	09/22/03 0.10	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	11/12/03 0.098	03/04/04 0.13	09/22/03 0.085	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	11/12/03 0.16	03/04/04 0.13	09/22/03 0.11	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	11/14/03 0.45	02/10/04 0.18	09/22/03 0.22	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	11/12/03 0.11	03/04/04 0.17	09/22/03 0.21	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	11/12/03 0.33	02/25/04 0.56	09/22/03 0.30	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	11/12/03 0.14	03/04/04 0.17	09/22/03 0.17	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	11/12/03 0.090	03/04/04 0.14	09/22/03 0.16	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	11/12/03 0.076	03/04/04 0.16	09/22/03 0.21	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	11/12/03 0.25	03/04/04 0.16	09/22/03 0.24	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	11/12/03 0.047	03/04/04 0.10	09/22/03 0.10	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	11/12/03 0.094	02/03/04 0.10	09/22/03 0.20	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	11/12/03 0.083	03/04/04 0.14	09/22/03 0.070	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	11/12/03 0.14	03/04/04 0.16	09/22/03 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	11/12/03 0.13	02/03/04 0.12	09/22/03 0.17	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	11/12/03 0.091	03/04/04 0.12	09/22/03 0.14	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	11/12/03 0.13	03/04/04 0.16	09/22/03 0.22	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	11/12/03 0.25	02/25/04 0.47	09/22/03 0.19	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	11/12/03 0.075	02/03/04 0.12	09/22/03 0.12	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	11/12/03 0.097	03/04/04 0.14	09/22/03 0.18	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	11/12/03 0.13	02/11/04 0.16	09/22/03 0.20	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	11/12/03 0.29	02/11/04 0.14	09/22/03 0.16	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	11/12/03 0.044	03/04/04 0.11	09/22/03 0.15	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	11/12/03 0.17	02/03/04 0.13	09/22/03 0.28	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	11/12/03 0.099	03/04/04 0.18	09/22/03 0.17	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	11/12/03 0.15	03/04/04 0.17	09/22/03 0.19	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	02/11/04 0.33	09/23/03 0.57	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	11/12/03 0.10	03/04/04 0.11	09/22/03 0.23	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	11/12/03 0.051	02/03/04 0.059	09/22/03 0.13	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	11/12/03 0.11	02/03/04 0.10	09/22/03 0.38	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	11/12/03 0.10	02/03/04 0.070	09/22/03 0.23	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	11/12/03 0.12	03/04/04 0.096	09/22/03 0.17	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	11/12/03 0.15	02/11/04 0.16	09/22/03 0.19	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	11/12/03 0.039	03/04/04 0.095	09/22/03 0.19	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	11/12/03 0.13	02/03/04 0.12	09/22/03 0.21	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	11/12/03 0.14	02/25/04 0.38	09/22/03 0.20	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	11/12/03 0.065	03/04/04 0.077	09/22/03 0.19	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	11/12/03 0.12	02/03/04 0.15	09/22/03 0.21	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	11/12/03 0.083	03/04/04 0.13	09/22/03 0.20	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	11/12/03 0.14	02/03/04 0.059	09/22/03 0.24	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	11/12/03 0.16	03/04/04 0.098	09/22/03 0.16	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	11/12/03 0.036	02/03/04 0.049	09/22/03 0.22	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	11/12/03 0.053	03/04/04 0.084	09/22/03 0.22	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	11/12/03 0.068	03/04/04 0.096	09/22/03 0.18	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	11/12/03 0.062	03/04/04 0.12	09/22/03 0.20	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	11/12/03 0.066	03/04/04 0.12	09/22/03 0.23	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	11/12/03 0.071	03/04/04 0.13	09/22/03 0.23	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	11/12/03 0.084	03/04/04 0.087	09/22/03 0.16	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	11/12/03 0.086	03/04/04 0.14	09/22/03 0.21	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	11/12/03 0.33	03/04/04 0.45	09/22/03 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	11/12/03 0.15	02/25/04 0.13	09/22/03 0.14	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	11/12/03 0.30	02/03/04 0.15	09/22/03 0.22	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	11/12/03 0.076	02/11/04 0.12	09/22/03 0.089	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	11/12/03 0.14	02/03/04 0.075	09/22/03 0.10	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	01/27/04 2.4	02/25/04 3.7	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	01/27/04 0.19	02/25/04 0.12	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	01/27/04 0.14	02/25/04 0.057	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	01/27/04 0.16	02/25/04 0.071	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	01/27/04 6.2	03/04/04 23	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0
Ethanol	ug/L	01/27/04 24	02/25/04 35	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L		03/04/04 12	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	01/27/04 1.4	03/04/04 11	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	11/12/03 0.22	03/04/04 0.096	09/22/03 0.18	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L				06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

92

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX116[0.5]	Diln Fac:	0.9434
Lab ID:	174074-001	Batch#:	93845
Matrix:	Soil	Sampled:	08/18/04
Units:	ug/Kg	Received:	08/18/04
Basis:	dry	Analyzed:	08/18/04

Moisture: 12%

Analyte	Result	RL	MDL
Freon 12	ND	11	0.09
Chloromethane	ND	11	0.1
Vinyl Chloride	ND	11	0.3
Bromomethane	ND	11	0.3
Chloroethane	ND	11	0.3
Trichlorofluoromethane	ND	5.4	0.2
Acetone	72	21	1.1
Freon 113	ND	5.4	0.1
1,1-Dichloroethene	ND	5.4	0.5
Methylene Chloride	ND	21	0.7
Carbon Disulfide	ND	5.4	0.1
MTBE	ND	5.4	0.1
trans-1,2-Dichloroethene	ND	5.4	0.2
Vinyl Acetate	ND	54	0.08
1,1-Dichloroethane	ND	5.4	0.09
2-Butanone	14	11	0.1
cis-1,2-Dichloroethene	ND	5.4	0.1
2,2-Dichloropropane	ND	5.4	0.06
Chloroform	ND	5.4	0.1
Bromochloromethane	ND	5.4	0.1
1,1,1-Trichloroethane	ND	5.4	0.1
1,1-Dichloropropene	ND	5.4	0.09
Carbon Tetrachloride	ND	5.4	0.4
1,2-Dichloroethane	ND	5.4	0.1
Benzene	ND	5.4	0.06
Trichloroethene	ND	5.4	0.1
1,2-Dichloropropane	ND	5.4	0.1
Bromodichloromethane	ND	5.4	0.1
Dibromomethane	ND	5.4	0.2
4-Methyl-2-Pentanone	ND	11	0.3
cis-1,3-Dichloropropene	ND	5.4	0.3
Toluene	ND	5.4	0.1
trans-1,3-Dichloropropene	ND	5.4	0.1
1,1,2-Trichloroethane	ND	5.4	0.3
2-Hexanone	ND	11	0.1
1,3-Dichloropropane	ND	5.4	0.05
Tetrachloroethene	ND	5.4	0.09
Dibromochloromethane	ND	5.4	0.08
1,2-Dibromoethane	ND	5.4	0.1
Chlorobenzene	ND	5.4	0.08
1,1,1,2-Tetrachloroethane	ND	5.4	0.1
Ethylbenzene	ND	5.4	0.07
m,p-Xylenes	ND	5.4	0.2
o-Xylene	ND	5.4	0.1
Styrene	ND	5.4	0.06
Bromoform	ND	5.4	0.2
Isopropylbenzene	ND	5.4	0.1
1,1,2,2-Tetrachloroethane	ND	5.4	0.09
1,2,3-Trichloropropane	ND	5.4	0.2
Propylbenzene	ND	5.4	0.08
Bromobenzene	ND	5.4	0.2
1,3,5-Trimethylbenzene	ND	5.4	0.08

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX116[0.5]	Diln Fac:	0.9434
Lab ID:	174074-001	Batch#:	93845
Matrix:	Soil	Sampled:	08/18/04
Units:	ug/Kg	Received:	08/18/04
Basis:	dry	Analyzed:	08/18/04

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.4	0.1
4-Chlorotoluene	ND	5.4	0.1
tert-Butylbenzene	ND	5.4	0.07
1,2,4-Trimethylbenzene	ND	5.4	0.07
sec-Butylbenzene	ND	5.4	0.08
para-Isopropyl Toluene	ND	5.4	0.1
1,3-Dichlorobenzene	ND	5.4	0.1
1,4-Dichlorobenzene	ND	5.4	0.1
n-Butylbenzene	ND	5.4	0.1
1,2-Dichlorobenzene	ND	5.4	0.1
1,2-Dibromo-3-Chloropropane	ND	5.4	0.6
1,2,4-Trichlorobenzene	ND	5.4	0.3
Hexachlorobutadiene	ND	5.4	0.09
Naphthalene	ND	5.4	0.2
1,2,3-Trichlorobenzene	ND	5.4	0.2

Surrogate	%REC	Limits
Dibromofluoromethane	95	59-113
1,2-Dichloroethane-d4	96	70-121
Toluene-d8	97	84-138
Bromofluorobenzene	102	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC261599	Diln Fac:	1.000
Matrix:	Soil	Batch#:	93845
Units:	ug/Kg	Analyzed:	08/18/04

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC261599	Diln Fac:	1.000
Matrix:	Soil	Batch#:	93845
Units:	ug/Kg	Analyzed:	08/18/04

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	90	59-113
1,2-Dichloroethane-d4	97	70-121
Toluene-d8	96	84-138
Bromofluorobenzene	99	59-113

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	93845
Basis:	as received	Analyzed:	08/18/04

Type: BS Lab ID: QC261597

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	41.82	84	65-135
Benzene	50.00	44.62	89	65-135
Trichloroethene	50.00	43.40	87	65-135
Toluene	50.00	43.32	87	65-135
Chlorobenzene	50.00	42.12	84	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	89	59-113
1,2-Dichloroethane-d4	99	70-121
Toluene-d8	95	84-138
Bromofluorobenzene	93	59-113

Type: BSD Lab ID: QC261598

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	43.92	88	65-135	5	35
Benzene	50.00	45.75	92	65-135	3	35
Trichloroethene	50.00	44.33	89	65-135	2	35
Toluene	50.00	45.12	90	65-135	4	35
Chlorobenzene	50.00	44.08	88	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	91	59-113
1,2-Dichloroethane-d4	97	70-121
Toluene-d8	96	84-138
Bromofluorobenzene	92	59-113

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX116[0.5]	Diln Fac:	0.9434
MSS Lab ID:	174074-001	Batch#:	93845
Matrix:	Soil	Sampled:	08/18/04
Units:	ug/Kg	Received:	08/18/04
Basis:	dry	Analyzed:	08/18/04

Type: MS Moisture: 12%
Lab ID: QC261626

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4886	53.60	49.99	93	65-135
Benzene	<0.05909	53.60	51.58	96	65-135
Trichloroethene	<0.1136	53.60	50.22	94	65-135
Toluene	<0.1477	53.60	51.06	95	65-135
Chlorobenzene	<0.08182	53.60	48.66	91	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	93	59-113
1,2-Dichloroethane-d4	97	70-121
Toluene-d8	97	84-138
Bromofluorobenzene	100	59-113

Type: MSD Moisture: 12%
Lab ID: QC261627

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	53.60	46.62	87	65-135	7	35
Benzene	53.60	50.04	93	65-135	3	35
Trichloroethene	53.60	46.27	86	65-135	8	35
Toluene	53.60	47.39	88	65-135	7	35
Chlorobenzene	53.60	46.14	86	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	93	59-113
1,2-Dichloroethane-d4	99	70-121
Toluene-d8	97	84-138
Bromofluorobenzene	97	59-113

RPD= Relative Percent Difference

8260S / 8260W ICAL

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF11.D

Date : 15-JUL-2004 16:30

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

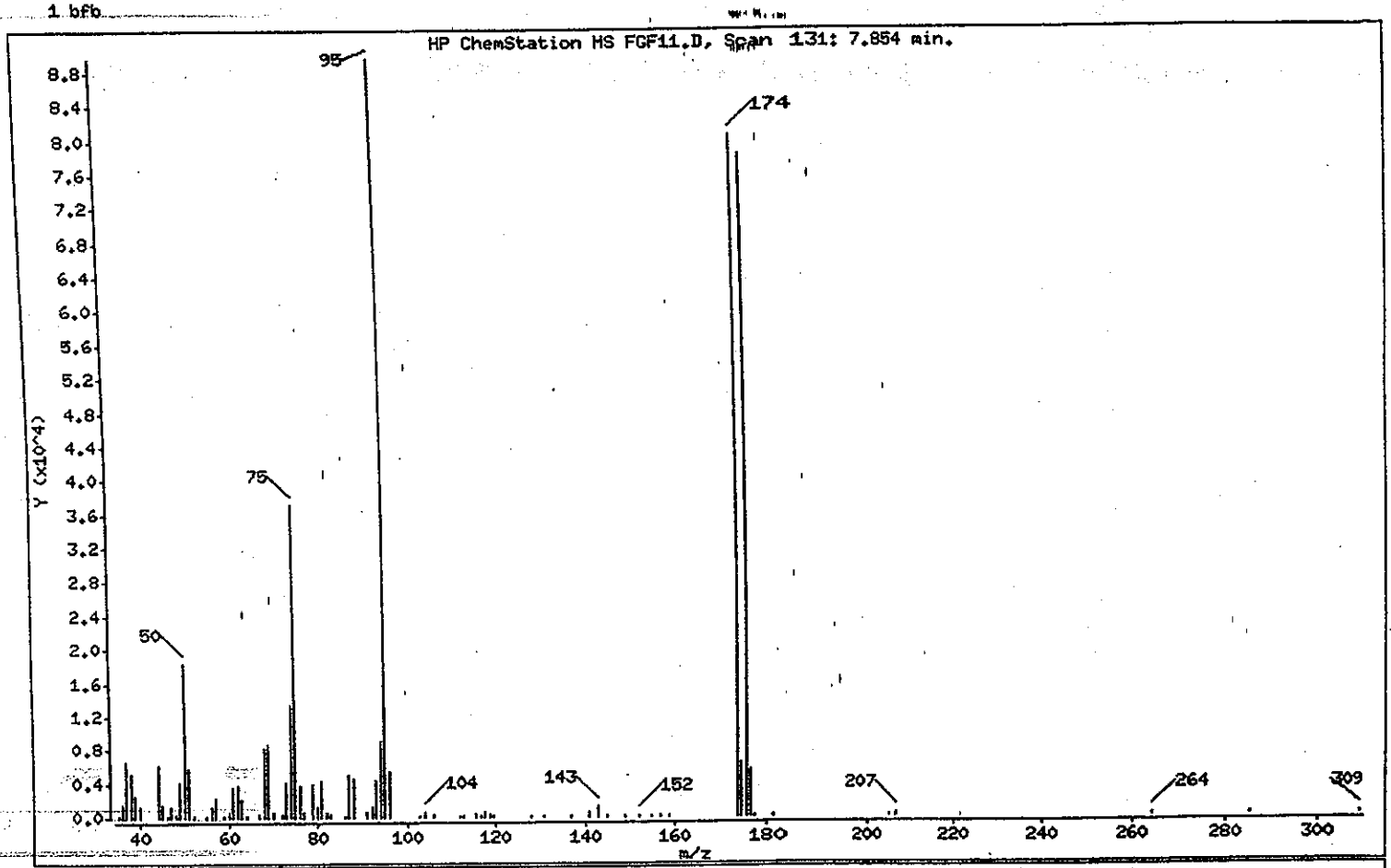
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.51
75	30.00 - 60.00% of mass 95	41.46
96	5.00 - 9.00% of mass 95	5.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	89.87
175	5.00 - 9.00% of mass 174	7.10 (7.90)
176	95.01 - 100.99% of mass 174	87.22 (97.05)
177	5.00 - 9.00% of mass 176	6.22 (7.13)

MW 7/16/04

AK 07/16/04

MW 7/16/04

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\081804.b\FHI02.D

Date : 18-AUG-2004 10:59

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

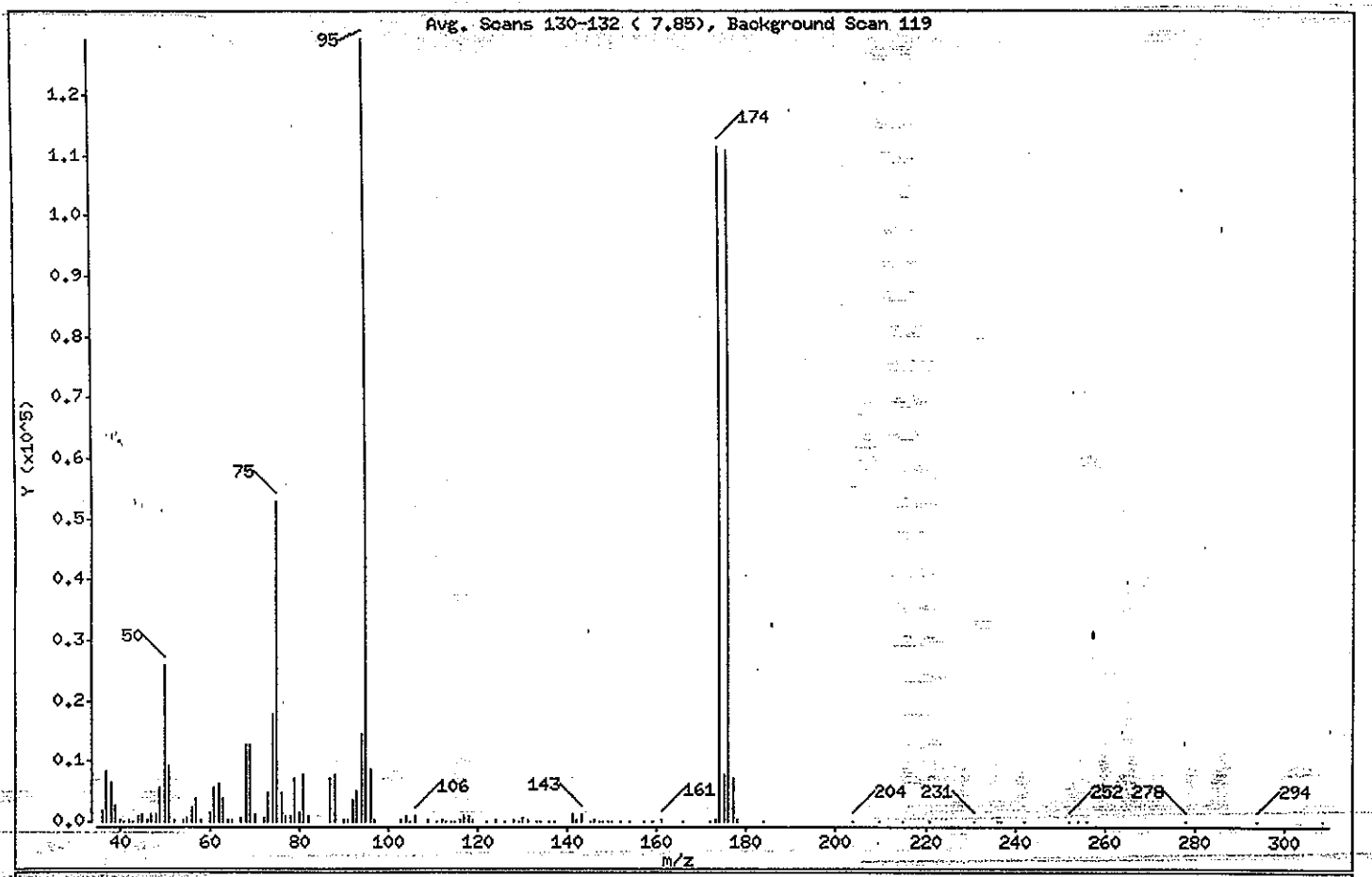
Volume Injected (uL): 1.0

Operator: VOA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.97
75	30.00 - 60.00% of mass 95	40.86
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.31 (0.36)
174	50.00 - 99.99% of mass 95	86.21
175	5.00 - 9.00% of mass 174	5.88 (6.82)
176	95.01 - 100.99% of mass 174	85.65 (99.35)
177	5.00 - 9.00% of mass 176	5.51 (6.44)

8/19/04

8/19/04

8260 S ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By: [illegible] 7/16/04

Instrument: MSVOA06 HP GCMS VOA 06 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Calnum: 454284216002 Name: I6M826

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	fgf24	454284216024	5PPB	15-JUL-2004 23:42	04SS242 (100000X), 04WS1132B (50000X), 04WS1255 (1000X)
2	fgf25	454284216025	10PPB	16-JUL-2004 00:17	04SS242 (50000X), 04WS1132B (25000X), 04WS1255 (1000X)
3	fgf26	454284216026	20PPB	16-JUL-2004 00:52	04SS242 (25000X), 04WS1132B (12500X), 04WS1255 (1000X)
4	fgf27	454284216027	50PPB	16-JUL-2004 01:27	04SS242 (10000X), 04WS1132B (5000X), 04WS1255 (1000X)
5	fgf28	454284216028	62.5PPB	16-JUL-2004 02:02	04SS242 (8000X), 04WS1132B (4000X), 04WS1255 (1000X)
6	fgf29	454284216029	75PPB	16-JUL-2004 02:37	04SS242 (6667X), 04WS1132B (3333X), 04WS1255 (1000X)
7	fgf30	454284216030	100PPB	16-JUL-2004 03:11	04SS242 (5000X), 04WS1132B (2500X), 04WS1255 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	1.0737	1.0726	1.1622	1.3631	1.0851	1.2536	1.1696	AVRG	R		0.855758		ug/L	1.1686	9	0.0500	0.99	15	
Chloromethane	0.8807	0.8411	0.8114	0.8546	0.7490	0.8427	0.8072	AVRG	R		1.209695		ug/L	0.8267	5	0.1000	0.99	15	
Vinyl Chloride	0.3619m	0.3329	0.3340	0.3519	0.2915	0.3127	0.2761	AVRG	R		3.095962		ug/L	0.3230	10	0.0500	0.99	15	
Bromomethane	0.4982m	0.4582m	0.4163	0.5222	0.5050	0.5606	0.5219	AVRG	R		2.010061		ug/L	0.4975	9	0.0500	0.99	15	
Chloroethane	0.4051m	0.4033	0.3644	0.4374	0.3653	0.4250	0.3948	AVRG	R		2.504112		ug/L	0.3993	7	0.0500	0.99	15	
Trichlorofluoromethane	0.9010m	0.9386	0.9164	1.1064	0.9068	1.0129	0.9449	AVRG	R		1.040581		ug/L	0.9610	8	0.0500	0.99	15	
Acetone		0.5023	0.4328	0.3888	0.3670	0.3535	0.3407	AVRG	R		2.515613		ug/L	0.3975	15	0.0500	0.99	15	
Freon 113	0.4308m	0.5603	0.6513	0.7056	0.6284	0.6726	0.6587	AVRG	R		1.624983		ug/L	0.6154	15	0.0500	0.99	15	
1,1-Dichloroethene	0.4760m	0.5249m	0.5830m	0.6196	0.5483	0.5803	0.5705	AVRG	R		1.793716		ug/L	0.5575	8	0.0500	0.99	15	
Methylene Chloride		0.8081	0.7674	0.7708	0.7220	0.7209	0.7076	AVRG	R		1.334296		ug/L	0.7495	5	0.0500	0.99	15	
Carbon Disulfide	2.4801	2.3878	2.1515	2.1350	1.9489	1.9697	1.8868	AVRG	R		0.467920		ug/L	2.1371	11	0.0500	0.99	15	
MTBE	1.6948	1.7704	1.7659	1.7795	1.7050	1.7176	1.6823	AVRG	R		0.577778		ug/L	1.7308	2	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.6400m	0.6753	0.6910	0.7014	0.6542	0.6758	0.6666	AVRG	R		1.488003		ug/L	0.6720	3	0.0500	0.99	15	
Vinyl Acetate		1.9434	1.9911	1.9492	1.8471	1.7916	1.7456	AVRG	R		0.532480		ug/L	1.8780	5	0.0500	0.99	15	
1,1-Dichloroethane	1.2682	1.3421	1.3307	1.3621	1.2809	1.2726	1.2447	AVRG	R		0.769121		ug/L	1.3002	3	0.1000	0.99	15	
2-Butanone		0.6597	0.6495	0.6206	0.6013	0.5997	0.5777	AVRG	R		1.617971		ug/L	0.6181	5	0.0500	0.99	15	
2,2-Dichloropropane	0.6794	0.7671	0.8161	0.8814	0.7944	0.8449	0.8317	AVRG	R		1.246665		ug/L	0.8021	8	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.7155	0.7632	0.7341	0.7608	0.7188	0.7327	0.7304	AVRG	R		1.357808		ug/L	0.7365	3	0.0500	0.99	15	

* ICAL - OK
* ICV - OK

Flags used: m=manual integration for incomplete integration in Target

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

8260 S ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06 Reviewed By:
Calnum: 454284216002 Name: I6M826 Type: SOIL Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Chloroform	1.2044	1.1872	1.2242	1.2381	1.1624	1.1752	1.1456	AVRG	R		0.839627		ug/L	1.1910	3	0.0500	0.99	15	
Bromochloromethane	0.4140	0.4087	0.4195	0.4338	0.4134	0.4238	0.4200	AVRG	R		2.386530		ug/L	0.4190	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.7169	0.8411	0.9135	0.9623	0.8845	0.9213	0.9009	AVRG	R		1.139978		ug/L	0.8772	9	0.0500	0.99	15	
1,1-Dichloropropene	0.4109	0.4714	0.5058	0.5503	0.4962	0.5342	0.5333	AVRG	R		1.998818		ug/L	0.5003	10	0.0500	0.99	15	
Carbon Tetrachloride	0.3309	0.4232	0.4832	0.5232	0.4793	0.5232	0.5235	AVRG	R		2.129874		ug/L	0.4695	15	0.0500	0.99	15	
1,2-Dichloroethane	0.5874	0.5676	0.5784	0.6056	0.5662	0.5833	0.5762	AVRG	R		1.722145		ug/L	0.5807	2	0.0500	0.99	15	
Benzene	1.3347	1.3943	1.4233	1.4308	1.3219	1.3601	1.3320	AVRG	R		0.729394		ug/L	1.3710	3	0.0500	0.99	15	
Trichloroethene	0.3858m	0.3940m	0.4166m	0.4390m	0.4072m	0.4344m	0.4337m	AVRG	R		2.404941		ug/L	0.4158	5	0.0500	0.99	15	
1,2-Dichloropropane	0.4183	0.4445	0.4563	0.4718	0.4425	0.4546	0.4636	AVRG	R		2.221042		ug/L	0.4502	4	0.0500	0.99	15	
Bromodichloromethane	0.5009	0.4898	0.5020	0.5304	0.5001	0.5148	0.5188	AVRG	R		1.968003		ug/L	0.5081	3	0.0500	0.99	15	
Dibromomethane	0.3565	0.3575	0.3664	0.3915	0.3713	0.3830	0.3859	AVRG	R		2.679937		ug/L	0.3731	4	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.6866	0.6974	0.7014	0.6592	0.6754	0.6682	AVRG	R		1.467630		ug/L	0.6814	2	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.5956	0.6229	0.6236	0.6645	0.6169	0.6295	0.6372	AVRG	R		1.594518		ug/L	0.6271	3	0.0500	0.99	15	
Toluene	0.8236	0.8592	0.8771	0.8957	0.8215	0.8405	0.8421	AVRG	R		1.174558		ug/L	0.8514	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.5184	0.5460	0.5520	0.5946	0.5562	0.5694	0.5651	AVRG	R		1.794067		ug/L	0.5574	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2191m	0.2322m	0.2352	0.2510	0.2387	0.2452	0.2466	AVRG	R		4.196727		ug/L	0.2383	5	0.0500	0.99	15	
2-Hexanone		0.6624	0.6888	0.6698	0.6609	0.6693	0.6554	AVRG	R		1.497544		ug/L	0.6678	2	0.0500	0.99	15	
1,3-Dichloropropane	0.7018	0.7537	0.7301	0.7442	0.7095	0.7350	0.7269	AVRG	R		1.372171		ug/L	0.7288	3	0.0500	0.99	15	
Tetrachloroethene	0.3721	0.4166	0.4408	0.4638	0.4326	0.4800	0.4710	AVRG	R		2.275089		ug/L	0.4395	8	0.0500	0.99	15	
Dibromochloromethane	0.5257	0.5542	0.5716	0.6062	0.5796	0.6110	0.6123	AVRG	R		1.723902		ug/L	0.5801	6	0.0500	0.99	15	
1,2-Dibromoethane	0.4289	0.4385	0.4496	0.4715	0.4436	0.4533	0.4547	AVRG	R		2.229218		ug/L	0.4486	3	0.0500	0.99	15	
Chlorobenzene	1.2533	1.2501	1.2517	1.2392	1.1899	1.2404	1.1911	AVRG	R		0.812470		ug/L	1.2308	2	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3862	0.4146	0.4245	0.4445	0.4294	0.4574	0.4510	AVRG	R		2.327466		ug/L	0.4297	6	0.0500	0.99	15	
Ethylbenzene	1.7496	1.8670	1.9405	1.9127	1.8064	1.8650	1.7843	AVRG	R		0.541564		ug/L	1.8465	4	0.0500	0.99	15	
m,p-Xylenes	0.6791	0.7408	0.7537	0.7609	0.7209	0.7596	0.7330	AVRG	R		1.359724		ug/L	0.7354	4	0.0500	0.99	15	
o-Xylene	0.6829	0.7170	0.7432	0.7653	0.7354	0.7618	0.7534	AVRG	R		1.356850		ug/L	0.7370	4	0.0500	0.99	15	
Styrene	1.1673	1.2334	1.2882	1.3187	1.2477	1.3020	1.2629	AVRG	R		0.793631		ug/L	1.2600	4	0.0500	0.99	15	
Bromoform	0.3500	0.3626	0.3930	0.4278	0.4115	0.4419	0.4417	AVRG	R		2.474934		ug/L	0.4041	9	0.1000	0.99	15	
Isopropylbenzene	3.1892	3.4905	3.6783	3.5764	3.3053	3.4583	3.3263	AVRG	R		0.291372		ug/L	3.4320	5	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	1.3992	1.4922	1.5127	1.4423	1.3807	1.4369	1.4146	AVRG	R		0.694547		ug/L	1.4398	3	0.3000	0.99	15	
1,2,3-Trichloropropane	0.3509	0.3736	0.3548	0.3551	0.3477	0.3564	0.3493	AVRG	R		2.813768		ug/L	0.3554	2	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

8260 S 1CAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By:

Instrument: MSVOA06 HP GCMS VOA 06 Date: 15-JUL-2004 23:42 Inj Vol (uL): 5000

Calnum: 454284216002 Name: I6M826 Type: SOIL

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
Propylbenzene	4.1419	4.4670	4.6170	4.4260	4.1095	4.2583	3.9836	AVRG	R		0.233308		ug/L	4.2862	5	0.0500	0.99	15	
Bromobenzene	1.0713	1.0329	1.0727	1.0945	1.0468	1.1134	1.0959	AVRG	R		0.929913		ug/L	1.0754	3	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.7473	2.9449	3.0347	2.9773	2.8162	2.9464	2.8263	AVRG	R		0.344946		ug/L	2.8990	4	0.0500	0.99	15	
2-Chlorotoluene	3.0055	3.0507	3.1128	2.9545	2.8000	2.8977	2.8092	AVRG	R		0.339304		ug/L	2.9472	4	0.0500	0.99	15	
4-Chlorotoluene	2.7113	2.8898	2.8159	2.7390	2.5997	2.7022	2.5417	AVRG	R		0.368428		ug/L	2.7142	4	0.0500	0.99	15	
tert-Butylbenzene	2.1462m	2.3747	2.5766	2.5673m	2.4057	2.5399	2.4861	AVRG	R		0.409440		ug/L	2.4424	6	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.8163	2.9539	3.0174	2.9726	2.8257	2.9265	2.7801	AVRG	R		0.344955		ug/L	2.8989	3	0.0500	0.99	15	
sec-Butylbenzene	3.3429	3.8365	4.0691	3.9479	3.6873	3.9006	3.6516	AVRG	R		0.264791		ug/L	3.7766	6	0.0500	0.99	15	
para-Isopropyl Toluene	2.6210	2.9215	3.0915	3.0673	2.8824	3.0366	2.8655	AVRG	R		0.341699		ug/L	2.9265	6	0.0500	0.99	15	
1,3-Dichlorobenzene	1.7407	1.7699	1.7463	1.7473	1.6689	1.7247	1.6851	AVRG	R		0.579330		ug/L	1.7261	2	0.0500	0.99	15	
1,4-Dichlorobenzene	1.7991	1.8694	1.8235	1.7825	1.6881	1.7666	1.7242	AVRG	R		0.562093		ug/L	1.7791	3	0.0500	0.99	15	
n-Butylbenzene	2.7518	2.9491	3.0526	2.9539	2.7369	2.8695	2.6818	AVRG	R		0.350079		ug/L	2.8565	5	0.0500	0.99	15	
1,2-Dichlorobenzene	1.6342	1.6772	1.6991	1.6645	1.6108	1.6653	1.6137	AVRG	R		0.605280		ug/L	1.6521	2	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.2378	0.2591	0.2643	0.2569	0.2516	0.2595	0.2547	AVRG	R		3.924089		ug/L	0.2548	3	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.9295	0.9356	0.9119	0.9215	0.8979	0.9476	0.9077	AVRG	R		1.084986		ug/L	0.9217	2	0.0500	0.99	15	
Hexachlorobutadiene	0.4693	0.5047	0.5061	0.5313	0.5052	0.5561	0.5528	AVRG	R		1.930730		ug/L	0.5179	6	0.0500	0.99	15	
Naphthalene	1.8444	2.0165	2.1501	2.2121	2.1438	2.2348	2.1354	AVRG	R		0.474993		ug/L	2.1053	6	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8722	0.8967	0.8996	0.9473	0.9063	0.9748	0.9495	AVRG	R		1.085867		ug/L	0.9209	4	0.0500	0.99	15	
Dibromofluoromethane	0.7853	0.7830	0.7769	0.7718	0.7652	0.7432	0.7552	AVRG	R		1.300967		ug/L	0.7687	2	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4027	0.4115	0.4153	0.4146	0.4064	0.4110	0.4218	AVRG	R		2.427697		ug/L	0.4119	2	0.0500	0.99	15	
Toluene-d8	1.0139	1.0177	0.9981	1.0194	0.9912	0.9855	1.0002	AVRG	R		0.996292		ug/L	1.0037	1	0.0500	0.99	15	
Bromofluorobenzene	1.1015	1.1171	1.1022	1.0920	1.0566	1.0702	1.0765	AVRG	R		0.919121		ug/L	1.0880	2	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 15-JUL-2004 23:42 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.001/100,04WS1132B,0.002/100
Misc Info : 5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 29 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.321	3.321	(0.368)	124529	5.00000	4.5943
2 Chloromethane	50	3.675	3.675	(0.408)	102137	5.00000	5.3267
3 Vinyl Chloride	62	3.843	3.843	(0.426)	41975	5.00000	5.6025(M)
4 Bromomethane	94	4.503	4.503	(0.500)	57780	5.00000	5.0335(M)
5 Chloroethane	64	4.631	4.631	(0.514)	46980	5.00000	5.0718(M)
6 Trichlorofluoromethane	101	5.074	5.074	(0.563)	104495	5.00000	4.6878(M)
7 Acetone	43	5.645	5.645	(0.626)	67456	5.00000	7.3158
8 Freon 113	101	5.783	5.783	(0.642)	49967	5.00000	3.5005(M)
9 1,1-Dichloroethene	96	5.960	5.960	(0.661)	55202	5.00000	4.2855(M)
10 Methylene Chloride	84	6.590	6.590	(0.731)	102534	5.00000	5.8982
11 Carbon Disulfide	76	6.679	6.679	(0.741)	287629	5.00000	5.8023
12 MTBE	73	6.935	6.935	(0.769)	196556	5.00000	4.8960
13 trans-1,2-Dichloroethene	96	7.103	7.103	(0.788)	74223	5.00000	4.7615(M)
14 Vinyl Acetate	43	7.654	7.654	(0.849)	219414	5.00000	5.0369
15 1,1-Dichloroethane	63	7.674	7.674	(0.851)	147079	5.00000	4.8769
16 2-Butanone	43	8.235	8.235	(0.914)	74413	5.00000	5.1906

7/16/04

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Report Date: 16-Jul-2004 10:04

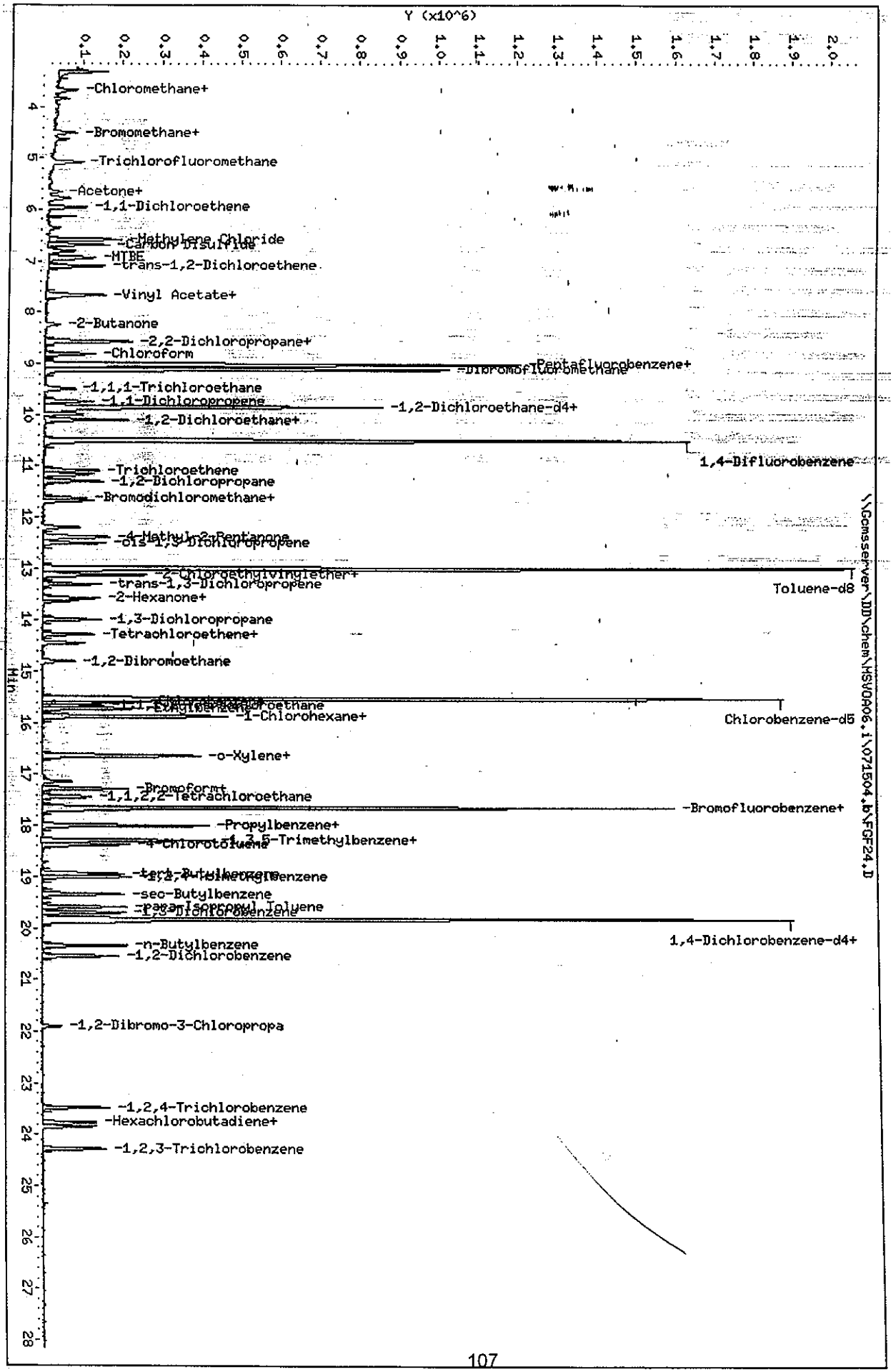
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.560	8.560	(0.950)	78794	5.00000	4.2349
	18 cis-1,2-Dichloroethene	96	8.570	8.570	(0.951)	82977	5.00000	4.8573
	19 Chloroform	83	8.826	8.826	(0.979)	139679	5.00000	5.0561
*	20 Pentafluorobenzene	168	9.013	9.013	(1.000)	1159758	50.0000	
	21 Bromochloromethane	128	9.023	9.023	(1.001)	48018	5.00000	4.9405
$	22 Dibromofluoromethane	113	9.112	9.112	(1.011)	910702	50.0000	51.0793
	23 1,1,1-Trichloroethane	97	9.486	9.486	(1.052)	83140	5.00000	4.0861
	24 1,1-Dichloropropene	75	9.742	9.742	(0.927)	81973	5.00000	4.1068
$	25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	803283	50.0000	48.8797
	26 Carbon Tetrachloride	117	9.909	9.909	(0.943)	66009	5.00000	3.5238
	27 1,2-Dichloroethane	62	9.988	9.988	(0.950)	117178	5.00000	5.0580
	28 Benzene	78	10.106	10.106	(0.962)	266244	5.00000	4.8675
*	29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	1994824	50.0000	
	30 Trichloroethene	95	11.081	11.081	(1.054)	76964	5.00000	4.8837(M)
	31 1,2-Dichloropropane	63	11.298	11.298	(1.075)	83444	5.00000	4.6453
	32 Bromodichloromethane	83	11.633	11.633	(1.107)	99919	5.00000	4.9287
	33 Dibromomethane	93	11.682	11.682	(1.111)	71115	5.00000	4.7769
	34 2-Chloroethylvinylether	63	13.120	13.120	(1.248)	23339	5.00000	4.3312
	35 4-Methyl-2-Pentanone	43	12.204	12.204	(1.161)	122689	5.00000	4.5132
	36 cis-1,3-Dichloropropene	75	12.509	12.509	(1.190)	118802	5.00000	4.7480
$	37 Toluene-d8	98	12.992	12.992	(1.236)	2022584	50.0000	50.5078
	38 Toluene	92	13.130	13.130	(1.249)	164296	5.00000	4.8368
	39 trans-1,3-Dichloropropene	75	13.307	13.307	(1.266)	103420	5.00000	4.6505
	40 1,1,2-Trichloroethane	85	13.573	13.573	(1.291)	43703	5.00000	4.6386(M)
	41 2-Hexanone	43	13.632	13.632	(0.878)	92893	5.00000	4.3412
	42 1,3-Dichloropropane	76	13.986	13.986	(0.901)	112451	5.00000	4.8152
	43 Tetrachloroethene	166	14.272	14.272	(0.919)	59622	5.00000	4.2330
	44 Dibromochloromethane	129	14.449	14.449	(0.931)	84233	5.00000	4.5315
	45 1,2-Dibromoethane	107	14.804	14.804	(1.409)	85562	5.00000	4.7807
*	46 Chlorobenzene-d5	117	15.523	15.523	(1.000)	1602210	50.0000	
	47 Chlorobenzene	112	15.592	15.592	(1.004)	200808	5.00000	5.0914
	48 1,1,1,2-Tetrachloroethane	131	15.661	15.661	(1.009)	61872	5.00000	4.4939
	49 1-Chlorohexane	91	15.867	15.867	(1.022)	433785	5.00000	4.9239
	50 Ethylbenzene	91	15.720	15.720	(1.013)	280320	5.00000	4.7375
	51 m,p-Xylenes	106	15.867	15.867	(1.022)	217602	10.0000	9.2334
	52 o-Xylene	106	16.626	16.626	(1.071)	109422	5.00000	4.6332
	53 Styrene	104	16.645	16.645	(1.072)	187030	5.00000	4.6321
	54 Bromoform	173	17.138	17.138	(1.104)	56085	5.00000	4.3317
	55 Isopropylbenzene	105	17.276	17.276	(0.872)	242015	5.00000	4.6461
	56 1,1,2,2-Tetrachloroethane	83	17.443	17.443	(0.880)	106180	5.00000	4.8590
$	57 Bromofluorobenzene	95	17.650	17.650	(0.891)	835855	50.0000	50.6185
	58 1,2,3-Trichloropropane	110	17.699	17.699	(0.893)	26628	5.00000	4.9366
	59 Propylbenzene	91	18.004	18.004	(0.909)	314312	5.00000	4.8316
	60 Bromobenzene	156	18.004	18.004	(0.909)	81297	5.00000	4.9810
	61 1,3,5-Trimethylbenzene	105	18.290	18.290	(0.923)	208479	5.00000	4.7382
	62 2-Chlorotoluene	91	18.290	18.290	(0.923)	228074	5.00000	5.0988
	63 4-Chlorotoluene	91	18.369	18.369	(0.927)	205751	5.00000	4.9946

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF24.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.940	18.940	(0.956)	162869	5.00000	4.3248(M)
	65 1,2,4-Trimethylbenzene	105	19.009	19.009	(0.959)	213716	5.00000	4.8574
	66 sec-Butylbenzene	105	19.344	19.344	(0.976)	253684	5.00000	4.4259
	67 para-Isopropyl Toluene	119	19.590	19.590	(0.989)	198898	5.00000	4.4779
	68 1,3-Dichlorobenzene	146	19.698	19.698	(0.994)	132097	5.00000	5.0422
*	69 1,4-Dichlorobenzene-d4	152	19.816	19.816	(1.000)	758863	50.0000	
	70 1,4-Dichlorobenzene	146	19.876	19.876	(1.003)	136528	5.00000	5.0563
	71 n-Butylbenzene	91	20.348	20.348	(1.027)	208821	5.00000	4.8166
	72 1,2-Dichlorobenzene	146	20.545	20.545	(1.037)	124017	5.00000	4.9458
	73 1,2-Dibromo-3-Chloropropane	75	21.904	21.904	(1.105)	18049	5.00000	4.6665
	74 1,2,4-Trichlorobenzene	180	23.490	23.490	(1.185)	70535	5.00000	5.0423
	75 Hexachlorobutadiene	225	23.775	23.775	(1.200)	35615	5.00000	4.5306
	76 Naphthalene	128	23.844	23.844	(1.203)	139968	5.00000	4.3804
	77 1,2,3-Trichlorobenzene	180	24.278	24.278	(1.225)	66189	5.00000	4.7355

QC Flag Legend

M - Compound response manually integrated.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Date : 15-JUL-2004 23:42
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.001/100,04WS1132B,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32
\\Comsserver\DD\chem\HSVOA06.i\071504.b\FGF24.D
Y (x10^6)
Min
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acetone+
-1,1-Dichloroethene
-Methylene Chloride
-Carbon Disulfide
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-2-Butanone
-2,2-Dichloropropane+
-Chloroform
-Pentafluorobenzene+
-Dibromofluoromethane
-1,1,1-Trichloroethane
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane+
1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane
-Bromodichloromethane+
-4-Methyl-2-Pentanone
-cis-1,3-Dichloropropene
-2-Chloroethylvinylether+
-trans-1,3-Dichloropropene
Toluene-d8
-2-Hexanone+
-1,3-Dichloropropane
-Tetrachloroethene+
-1,2-Dibromoethane
-Chlorobenzene
-1,1,1,2-Tetrachloroethane
-1-Chlorohexane+
Chlorobenzene-d5
-o-Xylene+
-Bromoform+
-1,1,2,2-Tetrachloroethane
-Bromofluorobenzene+
-Propylbenzene+
-1,3,5-Trimethylbenzene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,3-Dichlorobenzene
-n-Butylbenzene
1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-1,2,3-Trichlorobenzene

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 00:17 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.002/100,04WS1132B,0.004/100
Misc Info : 10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 30 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.317	3.317	(0.368)	250216	10.0000	9.1786
2 Chloromethane	50	3.681	3.681	(0.408)	196219	10.0000	10.1749
3 Vinyl Chloride	62	3.839	3.839	(0.426)	77651	10.0000	10.3052
4 Bromomethane	94	4.498	4.498	(0.499)	106894	10.0000	9.2103(M)
5 Chloroethane	64	4.636	4.636	(0.514)	94095	10.0000	10.1002
6 Trichlorofluoromethane	101	5.080	5.080	(0.563)	218952	10.0000	9.7664
7 Acetone	43	5.651	5.651	(0.627)	117175	10.0000	12.6355
8 Freon 113	101	5.779	5.779	(0.641)	130711	10.0000	9.1048
9 1,1-Dichloroethene	96	5.956	5.956	(0.660)	122458	10.0000	9.4231(M)
10 Methylene Chloride	84	6.586	6.586	(0.730)	188522	10.0000	10.7827
11 Carbon Disulfide	76	6.685	6.685	(0.741)	557032	10.0000	11.1728
12 MTBE	73	6.941	6.941	(0.770)	412996	10.0000	10.2287
13 trans-1,2-Dichloroethene	96	7.098	7.098	(0.787)	157527	10.0000	10.0478
14 Vinyl Acetate	43	7.650	7.650	(0.848)	453371	10.0000	10.3483
15 1,1-Dichloroethane	63	7.679	7.679	(0.852)	313099	10.0000	10.3226
16 2-Butanone	43	8.241	8.241	(0.914)	153895	10.0000	10.6735

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.566	8.566	(0.950)	178956	10.0000	9.5633
	18 cis-1,2-Dichloroethene	96	8.576	8.576	(0.951)	178042	10.0000	10.3627
	19 Chloroform	83	8.822	8.822	(0.978)	276953	10.0000	9.9679
*	20 Pentafluorobenzene	168	9.019	9.019	(1.000)	1166423	50.0000	
	21 Bromochloromethane	128	9.019	9.019	(1.000)	95333	10.0000	9.7526
$	22 Dibromofluoromethane	113	9.117	9.117	(1.011)	913285	50.0000	50.9315
	23 1,1,1-Trichloroethane	97	9.491	9.491	(1.052)	196222	10.0000	9.5886
	24 1,1-Dichloropropene	75	9.748	9.748	(0.928)	189003	10.0000	9.4222
$	25 1,2-Dichloroethane-d4	65	9.846	9.846	(0.937)	824919	50.0000	49.9478
	26 Carbon Tetrachloride	117	9.915	9.915	(0.944)	169701	10.0000	9.0146
	27 1,2-Dichloroethane	62	9.994	9.994	(0.951)	227573	10.0000	9.7746
	28 Benzene	78	10.102	10.102	(0.962)	559026	10.0000	10.1696
*	29 1,4-Difluorobenzene	114	10.506	10.506	(1.000)	2004743	50.0000	
	30 Trichloroethene	95	11.087	11.087	(1.055)	157960	10.0000	9.9060(M)
	31 1,2-Dichloropropane	63	11.294	11.294	(1.075)	178234	10.0000	9.8732
	32 Bromodichloromethane	83	11.638	11.638	(1.108)	196370	10.0000	9.6385
	33 Dibromomethane	93	11.688	11.688	(1.112)	143343	10.0000	9.5810
	34 2-Chloroethylvinylether	63	13.116	13.116	(1.248)	55158	10.0000	10.1856
	35 4-Methyl-2-Pentanone	43	12.200	12.200	(1.161)	275295	10.0000	10.0768
	36 cis-1,3-Dichloropropene	75	12.505	12.505	(1.190)	249731	10.0000	9.9314
$	37 Toluene-d8	98	12.997	12.997	(1.237)	2040303	50.0000	50.6981
	38 Toluene	92	13.125	13.125	(1.249)	344497	10.0000	10.0918
	39 trans-1,3-Dichloropropene	75	13.303	13.303	(1.266)	218898	10.0000	9.7947
	40 1,1,2-Trichloroethane	85	13.569	13.569	(1.292)	93119	10.0000	9.7467(M)
	41 2-Hexanone	43	13.618	13.618	(0.877)	209877	10.0000	9.9196
	42 1,3-Dichloropropane	76	13.982	13.982	(0.900)	238822	10.0000	10.3426
	43 Tetrachloroethene	166	14.278	14.278	(0.919)	131996	10.0000	9.4778
	44 Dibromochloromethane	129	14.445	14.445	(0.930)	175599	10.0000	9.5539
	45 1,2-Dibromoethane	107	14.800	14.800	(1.409)	175818	10.0000	9.7752
*	46 Chlorobenzene-d5	117	15.528	15.528	(1.000)	1584237	50.0000	
	47 Chlorobenzene	112	15.587	15.587	(1.004)	396088	10.0000	10.1566
	48 1,1,1,2-Tetrachloroethane	131	15.656	15.656	(1.008)	131350	10.0000	9.6485
	49 1-Chlorohexane	91	15.873	15.873	(1.022)	910555	10.0000	10.4529
	50 Ethylbenzene	91	15.715	15.715	(1.012)	591545	10.0000	10.1108
	51 m,p-Xylenes	106	15.873	15.873	(1.022)	469465	20.0000	20.1467
	52 o-Xylene	106	16.631	16.631	(1.071)	227188	10.0000	9.7289
	53 Styrene	104	16.641	16.641	(1.072)	390800	10.0000	9.7886
	54 Bromoform	173	17.134	17.134	(1.103)	114876	10.0000	8.9731
	55 Isopropylbenzene	105	17.271	17.271	(0.871)	519497	10.0000	10.1703
	56 1,1,2,2-Tetrachloroethane	83	17.439	17.439	(0.880)	222090	10.0000	10.3642
$	57 Bromofluorobenzene	95	17.646	17.646	(0.890)	831272	50.0000	51.3358
	58 1,2,3-Trichloropropane	110	17.705	17.705	(0.893)	55610	10.0000	10.5134
	59 Propylbenzene	91	18.000	18.000	(0.908)	664835	10.0000	10.4219
	60 Bromobenzene	156	18.000	18.000	(0.908)	153729	10.0000	9.6051
	61 1,3,5-Trimethylbenzene	105	18.296	18.296	(0.923)	438290	10.0000	10.1582
	62 2-Chlorotoluene	91	18.286	18.286	(0.922)	454047	10.0000	10.3513
	63 4-Chlorotoluene	91	18.374	18.374	(0.927)	430095	10.0000	10.6468

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF25.D
Report Date: 16-Jul-2004 10:04

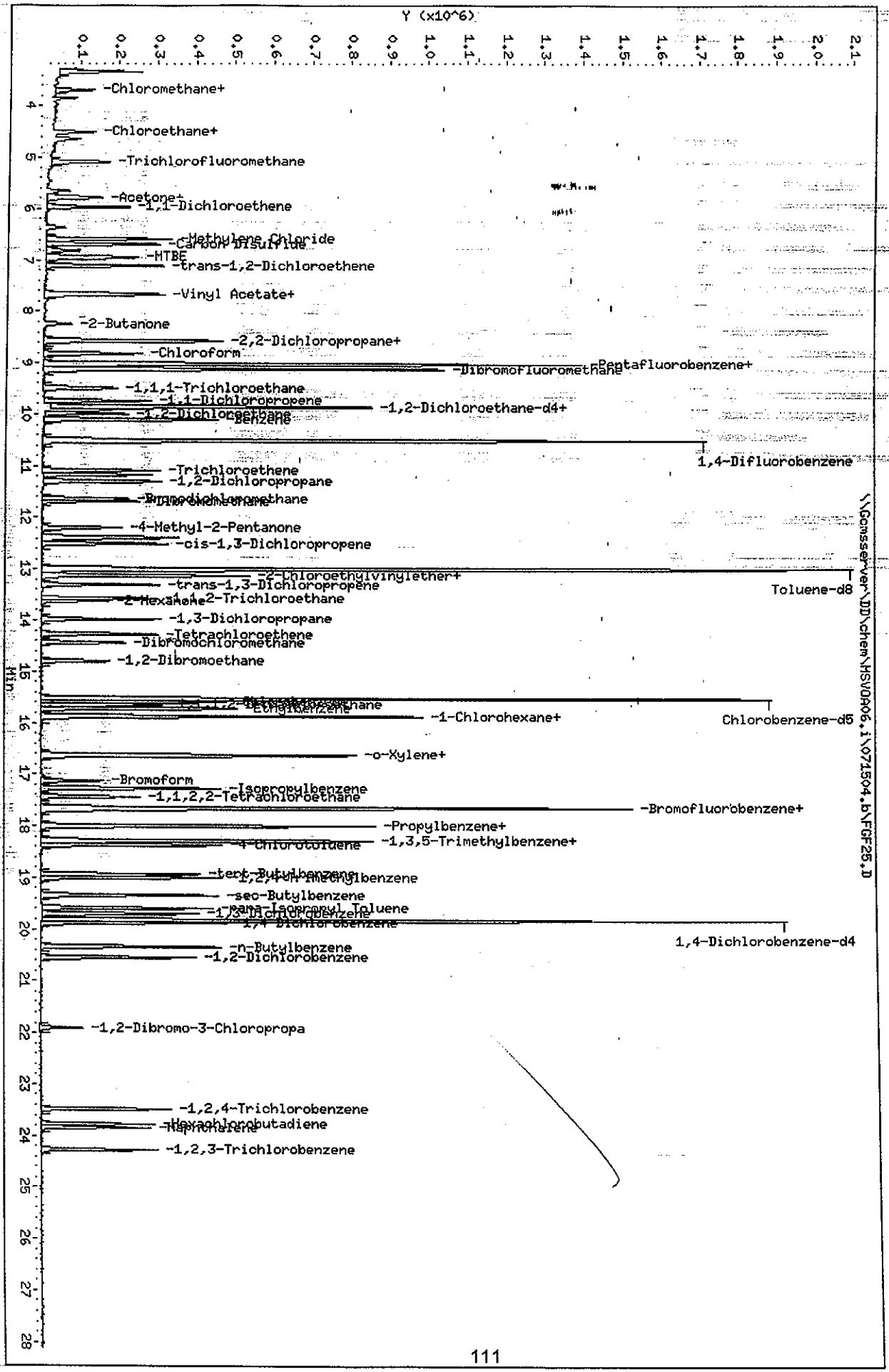
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.946	18.946	(0.956)	353437	10.0000	9.5706
	65 1,2,4-Trimethylbenzene	105	19.005	19.005	(0.959)	439629	10.0000	10.1895
	66 sec-Butylbenzene	105	19.340	19.340	(0.976)	570996	10.0000	10.1587
	67 para-Isopropyl Toluene	119	19.586	19.586	(0.988)	434816	10.0000	9.9828
	68 1,3-Dichlorobenzene	146	19.704	19.704	(0.994)	263419	10.0000	10.2536
*	69 1,4-Dichlorobenzene-d4	152	19.822	19.822	(1.000)	744157	50.0000	
	70 1,4-Dichlorobenzene	146	19.881	19.881	(1.003)	278224	10.0000	10.5077
	71 n-Butylbenzene	91	20.344	20.344	(1.026)	438920	10.0000	10.3242
	72 1,2-Dichlorobenzene	146	20.541	20.541	(1.036)	249621	10.0000	10.1517
	73 1,2-Dibromo-3-Chloropropane	75	21.900	21.900	(1.105)	38556	10.0000	10.1656
	74 1,2,4-Trichlorobenzene	180	23.486	23.486	(1.185)	139249	10.0000	10.1512
	75 Hexachlorobutadiene	225	23.771	23.771	(1.199)	75122	10.0000	9.7452
	76 Naphthalene	128	23.850	23.850	(1.203)	300112	10.0000	9.5780
	77 1,2,3-Trichlorobenzene	180	24.273	24.273	(1.225)	133459	10.0000	9.7371

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA06.i\071504.b\FGF25.D
Date : 16-JUL-2004 00:17
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.002/100,04WS11328,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF26.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF26.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 00:52 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.004/100,04WS1132B,0.008/100
Misc Info : 20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 31 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.318	3.318	(0.368)	564815	20.0000	19.8910
2 Chloromethane	50	3.682	3.682	(0.408)	394310	20.0000	19.6297
3 Vinyl Chloride	62	3.840	3.840	(0.426)	162320	20.0000	20.6808
4 Bromomethane	94	4.499	4.499	(0.499)	202335	20.0000	16.7371
5 Chloroethane	64	4.637	4.637	(0.514)	177107	20.0000	18.2511
6 Trichlorofluoromethane	101	5.080	5.080	(0.563)	445370	20.0000	19.0720
7 Acetone	43	5.652	5.652	(0.627)	210354	20.0000	21.7768
8 Freon 113	101	5.780	5.780	(0.641)	316529	20.0000	21.1671
9 1,1-Dichloroethene	96	5.967	5.967	(0.662)	283335	20.0000	20.9148(M)
10 Methylene Chloride	84	6.587	6.587	(0.730)	372937	20.0000	20.4780
11 Carbon Disulfide	76	6.676	6.676	(0.740)	1045592	20.0000	20.1342
12 MTBE	73	6.942	6.942	(0.770)	858208	20.0000	20.4058
13 trans-1,2-Dichloroethene	96	7.099	7.099	(0.787)	335831	20.0000	20.5648
14 Vinyl Acetate	43	7.651	7.651	(0.848)	967681	20.0000	21.2049
15 1,1-Dichloroethane	63	7.680	7.680	(0.852)	646732	20.0000	20.4701
16 2-Butanone	43	8.232	8.232	(0.913)	315630	20.0000	21.0159

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF26.D
Report Date: 16-Jul-2004 10:04

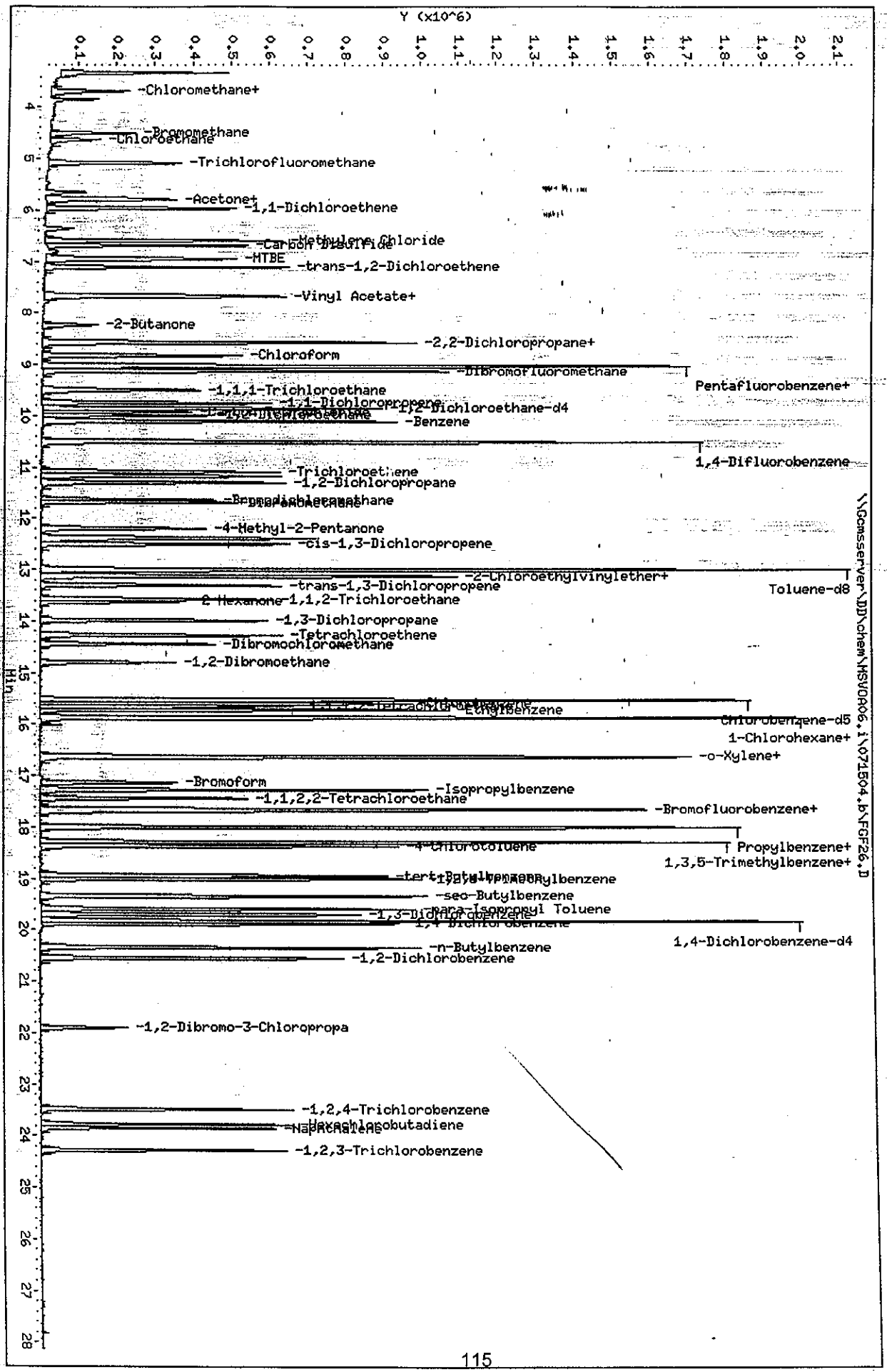
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.567	8.567	(0.950)	396635	20.0000	20.3489
	18 cis-1,2-Dichloroethene	96	8.567	8.567	(0.950)	356758	20.0000	19.9348
	19 Chloroform	83	8.823	8.823	(0.978)	594972	20.0000	20.5581
*	20 Pentafluorobenzene	168	9.020	9.020	(1.000)	1214980	50.0000	
	21 Bromochloromethane	128	9.020	9.020	(1.000)	203852	20.0000	20.0208
$	22 Dibromofluoromethane	113	9.118	9.118	(1.011)	943903	50.0000	50.5352
	23 1,1,1-Trichloroethane	97	9.492	9.492	(1.052)	443937	20.0000	20.8266
	24 1,1-Dichloropropene	75	9.748	9.748	(0.928)	414427	20.0000	20.2193
$	25 1,2-Dichloroethane-d4	65	9.847	9.847	(0.937)	850815	50.0000	50.4167
	26 Carbon Tetrachloride	117	9.916	9.916	(0.944)	395964	20.0000	20.5851
	27 1,2-Dichloroethane	62	9.995	9.995	(0.951)	473923	20.0000	19.9215
	28 Benzene	78	10.103	10.103	(0.962)	1166251	20.0000	20.7634
*	29 1,4-Difluorobenzene	114	10.507	10.507	(1.000)	2048449	50.0000	
	30 Trichloroethene	95	11.088	11.088	(1.055)	341350	20.0000	20.7611(M) no Hlcley
	31 1,2-Dichloropropane	63	11.295	11.295	(1.075)	373885	20.0000	20.2693
	32 Bromodichloromethane	83	11.639	11.639	(1.108)	411355	20.0000	19.7600
	33 Dibromomethane	93	11.688	11.688	(1.112)	300202	20.0000	19.6373
	34 2-Chloroethylvinylether	63	13.126	13.126	(1.249)	107872	20.0000	19.4949
	35 4-Methyl-2-Pentanone	43	12.201	12.201	(1.161)	571424	20.0000	20.4701
	36 cis-1,3-Dichloropropene	75	12.506	12.506	(1.190)	510962	20.0000	19.8867
$	37 Toluene-d8	98	12.998	12.998	(1.237)	2044481	50.0000	49.7180
	38 Toluene	92	13.126	13.126	(1.249)	718691	20.0000	20.6044
	39 trans-1,3-Dichloropropene	75	13.304	13.304	(1.266)	452328	20.0000	19.8078
	40 1,1,2-Trichloroethane	85	13.569	13.569	(1.291)	192699	20.0000	19.7394
	41 2-Hexanone	43	13.619	13.619	(0.877)	444730	20.0000	20.6296
	42 1,3-Dichloropropane	76	13.983	13.983	(0.900)	471417	20.0000	20.0368
	43 Tetrachloroethene	166	14.279	14.279	(0.919)	284584	20.0000	20.0551
	44 Dibromochloromethane	129	14.446	14.446	(0.930)	369043	20.0000	19.7063
	45 1,2-Dibromoethane	107	14.800	14.800	(1.409)	368362	20.0000	20.0434
*	46 Chlorobenzene-d5	117	15.529	15.529	(1.000)	1614185	50.0000	
	47 Chlorobenzene	112	15.588	15.588	(1.004)	808192	20.0000	20.3394
	48 1,1,1,2-Tetrachloroethane	131	15.657	15.657	(1.008)	274081	20.0000	19.7596
	49 1-Chlorohexane	91	15.874	15.874	(1.022)	1888824	20.0000	21.2810
	50 Ethylbenzene	91	15.716	15.716	(1.012)	1252931	20.0000	21.0181
	51 m,p-Xylenes	106	15.874	15.874	(1.022)	973239	40.0000	40.9908
	52 o-Xylene	106	16.622	16.622	(1.070)	479852	20.0000	20.1676
	53 Styrene	104	16.642	16.642	(1.072)	831747	20.0000	20.4468
	54 Bromoform	173	17.134	17.134	(1.103)	253725	20.0000	19.4510
	55 Isopropylbenzene	105	17.272	17.272	(0.871)	1144278	20.0000	21.4352
	56 1,1,2,2-Tetrachloroethane	83	17.440	17.440	(0.880)	470578	20.0000	21.0127
$	57 Bromofluorobenzene	95	17.647	17.647	(0.890)	857159	50.0000	50.6505
	58 1,2,3-Trichloropropane	110	17.696	17.696	(0.893)	110371	20.0000	19.9661
	59 Propylbenzene	91	18.001	18.001	(0.908)	1436267	20.0000	21.5434
	60 Bromobenzene	156	18.001	18.001	(0.908)	333700	20.0000	19.9502
	61 1,3,5-Trimethylbenzene	105	18.297	18.297	(0.923)	944041	20.0000	20.9359
	62 2-Chlorotoluene	91	18.287	18.287	(0.923)	968337	20.0000	21.1235
	63 4-Chlorotoluene	91	18.375	18.375	(0.927)	875996	20.0000	20.7493

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF26.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.947	18.947	(0.956)	801545	20.0000	20.7683
	65 1,2,4-Trimethylbenzene	105	19.006	19.006	(0.959)	938680	20.0000	20.8176
	66 sec-Butylbenzene	105	19.340	19.340	(0.976)	1265833	20.0000	21.5491
	67 para-Isopropyl Toluene	119	19.587	19.587	(0.988)	961720	20.0000	21.1272
	68 1,3-Dichlorobenzene	146	19.705	19.705	(0.994)	543247	20.0000	20.2336
*	69 1,4-Dichlorobenzene-d4	152	19.823	19.823	(1.000)	777714	50.0000	
	70 1,4-Dichlorobenzene	146	19.882	19.882	(1.003)	567269	20.0000	20.4996
	71 n-Butylbenzene	91	20.345	20.345	(1.026)	949605	20.0000	21.3726
	72 1,2-Dichlorobenzene	146	20.552	20.552	(1.037)	528556	20.0000	20.5682
	73 1,2-Dibromo-3-Chloropropane	75	21.901	21.901	(1.105)	82221	20.0000	20.7430
	74 1,2,4-Trichlorobenzene	180	23.486	23.486	(1.185)	283688	20.0000	19.7886
	75 Hexachlorobutadiene	225	23.772	23.772	(1.199)	157442	20.0000	19.5430
	76 Naphthalene	128	23.851	23.851	(1.203)	668859	20.0000	20.4254
	77 1,2,3-Trichlorobenzene	180	24.274	24.274	(1.225)	279845	20.0000	19.5363

QC Flag Legend

M - Compound response manually integrated.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Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32
Y (x10^6)
Min
-Chloromethane+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Acetone+
-1,1-Dichloroethene
-Methylene Chloride
-Carbon Disulfide
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-2-Butanone
-2,2-Dichloropropane+
-Chloroform
-Dibromofluoromethane
Pentafluorobenzene+
-1,1,1-Trichloroethane
-1,1-Dichloropropene
-1,2-Dichloroethane-d4
-1,2-Dichloroethane
-Benzene
1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane
-Bromodichloromethane
-Dibromoethane
-4-Methyl-2-Pentanone
-cis-1,3-Dichloropropene
-2-Chloroethylvinylether+
-trans-1,3-Dichloropropene
Toluene-d8
2-Hexanone
-1,1,2-Trichloroethane
-1,3-Dichloropropane
-Tetrachloroethene
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane
Ethylbenzene
Chlorobenzene-d5
1-Chlorohexane+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-1,1,2,2-Tetrachloroethane
-Bromofluorobenzene+
-4-Chlorotoluene
Propylbenzene+
1,3,5-Trimethylbenzene+
-tert-Butylbenzene
1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
para-Isopropyl Toluene
1,4-Dichlorobenzene
1,4-Dichlorobenzene-d4
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF26.D

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF27.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF27.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 01:27 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.0005/5,04WS1132B,0.001/5
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 32 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.320	3.320	(0.368)	1745973	50.0000	58.3237
2 Chloromethane	50	3.675	3.675	(0.407)	1094666	50.0000	51.6909
3 Vinyl Chloride	62	3.842	3.842	(0.426)	450787	50.0000	54.4784
4 Bromomethane	94	4.502	4.502	(0.499)	668859	50.0000	52.4809
5 Chloroethane	64	4.630	4.630	(0.513)	560316	50.0000	54.7701
6 Trichlorofluoromethane	101	5.083	5.083	(0.563)	1417146	50.0000	57.5636
7 Acetone	43	5.645	5.645	(0.626)	498062	50.0000	48.9085
8 Freon 113	101	5.782	5.782	(0.641)	903736	50.0000	57.3254
9 1,1-Dichloroethene	96	5.960	5.960	(0.661)	793577	50.0000	55.5648
10 Methylene Chloride	84	6.590	6.590	(0.730)	987327	50.0000	51.4245
11 Carbon Disulfide	76	6.689	6.689	(0.741)	2734736	50.0000	49.9510
12 MTBE	73	6.935	6.935	(0.769)	2279387	50.0000	51.4086
13 trans-1,2-Dichloroethene	96	7.112	7.112	(0.788)	898443	50.0000	52.1857
14 Vinyl Acetate	43	7.654	7.654	(0.848)	2496663	50.0000	51.8944
15 1,1-Dichloroethane	63	7.683	7.683	(0.852)	1744676	50.0000	52.3801
16 2-Butanone	43	8.235	8.235	(0.913)	794895	50.0000	50.2039

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF27.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.570	8.570	(0.950)	1128918	50.0000	54.9376
	18 cis-1,2-Dichloroethene	96	8.570	8.570	(0.950)	974543	50.0000	51.6531
	19 Chloroform	83	8.826	8.826	(0.978)	1585831	50.0000	51.9757
*	20 Pentafluorobenzene	168	9.023	9.023	(1.000)	1280892	50.0000	
	21 Bromochloromethane	128	9.023	9.023	(1.000)	555688	50.0000	51.7672
$	22 Dibromofluoromethane	113	9.121	9.121	(1.011)	988633	50.0000	50.2063
	23 1,1,1-Trichloroethane	97	9.495	9.495	(1.052)	1232639	50.0000	54.8516
	24 1,1-Dichloropropene	75	9.751	9.751	(0.928)	1168953	50.0000	55.0012
$	25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	880673	50.0000	50.3281
	26 Carbon Tetrachloride	117	9.919	9.919	(0.944)	1111264	50.0000	55.7151
	27 1,2-Dichloroethane	62	9.997	9.997	(0.951)	1286405	50.0000	52.1494
	28 Benzene	78	10.106	10.106	(0.962)	3039028	50.0000	52.1793
*	29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	2124066	50.0000	
	30 Trichloroethene	95	11.091	11.091	(1.055)	932396	50.0000	54.2277(M)
	31 1,2-Dichloropropane	63	11.307	11.307	(1.076)	1002166	50.0000	52.3960
	32 Bromodichloromethane	83	11.642	11.642	(1.108)	1126680	50.0000	52.1949
	33 Dibromomethane	93	11.691	11.691	(1.112)	831532	50.0000	52.4572
	34 2-Chloroethylvinylether	63	13.129	13.129	(1.249)	301671	50.0000	52.5781
	35 4-Methyl-2-Pentanone	43	12.203	12.203	(1.161)	1489727	50.0000	51.4665
	36 cis-1,3-Dichloropropene	75	12.509	12.509	(1.190)	1411357	50.0000	52.9746
$	37 Toluene-d8	98	13.001	13.001	(1.237)	2165373	50.0000	50.7833
	38 Toluene	92	13.129	13.129	(1.249)	1902428	50.0000	52.5998
	39 trans-1,3-Dichlorbpropene	75	13.306	13.306	(1.266)	1263069	50.0000	53.3418
	40 1,1,2-Trichloroethane	85	13.572	13.572	(1.291)	533176	50.0000	52.6724
	41 2-Hexanone	43	13.622	13.622	(0.877)	1162601	50.0000	50.1524
	42 1,3-Dichloropropane	76	13.986	13.986	(0.900)	1291700	50.0000	51.0566
	43 Tetrachloroethene	166	14.281	14.281	(0.919)	804995	50.0000	52.7562
	44 Dibromochloromethane	129	14.449	14.449	(0.930)	1052177	50.0000	52.2496
	45 1,2-Dibromoethane	107	14.803	14.803	(1.409)	1001558	50.0000	52.5570
*	46 Chlorobenzene-d5	117	15.532	15.532	(1.000)	1735753	50.0000	
	47 Chlorobenzene	112	15.601	15.601	(1.004)	2150977	50.0000	50.3413
	48 1,1,1,2-Tetrachloroethane	131	15.660	15.660	(1.008)	771600	50.0000	51.7318
	49 1-Chlorohexane	91	15.877	15.877	(1.022)	4924025	50.0000	51.5925
	50 Ethylbenzene	91	15.729	15.729	(1.013)	3320049	50.0000	51.7936
	51 m,p-Xylenes	106	15.877	15.877	(1.022)	2641596	100.000	103.4664
	52 o-Xylene	106	16.625	16.625	(1.070)	1328331	50.0000	51.9182
	53 Styrene	104	16.655	16.655	(1.072)	2288960	50.0000	52.3285
	54 Bromoform	173	17.147	17.147	(1.104)	742557	50.0000	52.9389
	55 Isopropylbenzene	105	17.285	17.285	(0.872)	3089936	50.0000	52.1025
	56 1,1,2,2-Tetrachloroethane	83	17.443	17.443	(0.880)	1246104	50.0000	50.0861
$	57 Bromofluorobenzene	95	17.659	17.659	(0.891)	943462	50.0000	50.1832
	58 1,2,3-Trichloropropane	110	17.709	17.709	(0.893)	306777	50.0000	49.9543
	59 Propylbenzene	91	18.004	18.004	(0.908)	3823980	50.0000	51.6306
	60 Bromobenzene	156	18.004	18.004	(0.908)	945622	50.0000	50.8887
	61 1,3,5-Trimethylbenzene	105	18.299	18.299	(0.923)	2572374	50.0000	51.3508
	62 2-Chlorotoluene	91	18.290	18.290	(0.923)	2552697	50.0000	50.1245
	63 4-Chlorotoluene	91	18.378	18.378	(0.927)	2366433	50.0000	50.4555

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF27.D
Report Date: 16-Jul-2004 10:04

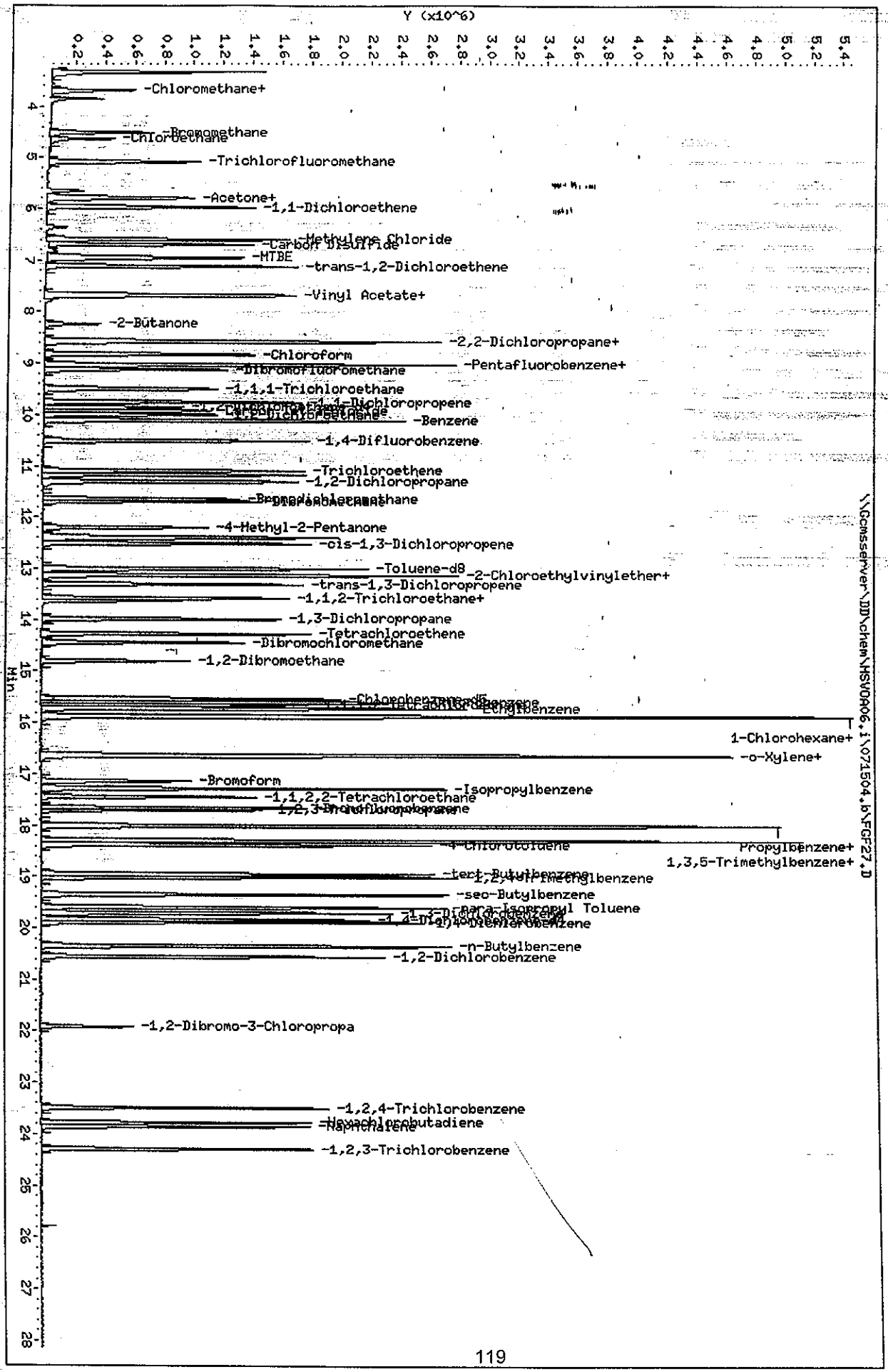
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 tert-Butylbenzene	119	18.949	18.949	(0.956)	2218079	50.0000	52.5568(M)
65 1,2,4-Trimethylbenzene	105	19.009	19.009	(0.959)	2568318	50.0000	51.2712
66 sec-Butylbenzene	105	19.343	19.343	(0.976)	3410914	50.0000	52.2680
67 para-Isopropyl Toluene	119	19.599	19.599	(0.989)	2650143	50.0000	52.4052
68 1,3-Dichlorobenzene	146	19.708	19.708	(0.994)	1509673	50.0000	50.6140
* 69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	863989	50.0000	
70 1,4-Dichlorobenzene	146	19.885	19.885	(1.003)	1540062	50.0000	50.0966
71 n-Butylbenzene	91	20.348	20.348	(1.026)	2552103	50.0000	51.7042
72 1,2-Dichlorobenzene	146	20.555	20.555	(1.037)	1438137	50.0000	50.3753
73 1,2-Dibromo-3-Chloropropane	75	21.904	21.904	(1.105)	221964	50.0000	50.4061
74 1,2,4-Trichlorobenzene	180	23.489	23.489	(1.185)	796146	50.0000	49.9894
75 Hexachlorobutadiene	225	23.775	23.775	(1.199)	459020	50.0000	51.2878
76 Naphthalene	128	23.854	23.854	(1.203)	1911221	50.0000	52.5363
77 1,2,3-Trichlorobenzene	180	24.287	24.287	(1.225)	818457	50.0000	51.4321

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gomsserver\DD\chem\HSVOA06.i\071504.b\FGF27.D
Date : 16-JUL-2004 01:27
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.0005/5,04WS41372B,0.001/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF28.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF28.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 02:02 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.0125/100,04WS1132B,0.025/100
Misc Info : 62.5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 33 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.321	3.321	(0.368)	1799046	62.5000	58.0369
2 Chloromethane	50	3.685	3.685	(0.408)	1241807	62.5000	56.6292
3 Vinyl Chloride	62	3.843	3.843	(0.426)	483272	62.5000	56.4025
4 Bromomethane	94	4.503	4.503	(0.499)	837313	62.5000	63.4465
5 Chloroethane	64	4.631	4.631	(0.513)	605686	62.5000	57.1758
6 Trichlorofluoromethane	101	5.084	5.084	(0.563)	1503482	62.5000	58.9773
7 Acetone	43	5.655	5.655	(0.627)	608403	62.5000	57.6960
8 Freon 113	101	5.783	5.783	(0.641)	1041932	62.5000	63.8262
9 1,1-Dichloroethene	96	5.960	5.960	(0.661)	908977	62.5000	61.4635
10 Methylene Chloride	84	6.590	6.590	(0.730)	1196989	62.5000	60.2078
11 Carbon Disulfide	76	6.689	6.689	(0.741)	3231201	62.5000	56.9963
12 MTBE	73	6.935	6.935	(0.769)	2826769	62.5000	61.5690
13 trans-1,2-Dichloroethene	96	7.112	7.112	(0.788)	1084628	62.5000	60.8409
14 Vinyl Acetate	43	7.654	7.654	(0.848)	3062302	62.5000	61.4699
15 1,1-Dichloroethane	63	7.684	7.684	(0.852)	2123702	62.5000	61.5743
16 2-Butanone	43	8.235	8.235	(0.913)	996843	62.5000	60.8007

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF28.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.570	8.570	(0.950)	1317068	62.5000	61.8969
	18 cis-1,2-Dichloroethene	96	8.570	8.570	(0.950)	1191652	62.5000	60.9956
	19 Chloroform	83	8.826	8.826	(0.978)	1927131	62.5000	60.9970
*	20 Pentafluorobenzene	168	9.023	9.023	(1.000)	1326352	50.0000	
	21 Bromochloromethane	128	9.023	9.023	(1.000)	685413	62.5000	61.6638
$	22 Dibromofluoromethane	113	9.121	9.121	(1.011)	1014963	50.0000	49.7768
	23 1,1,1-Trichloroethane	97	9.496	9.496	(1.052)	1466449	62.5000	63.0194
	24 1,1-Dichloropropene	75	9.752	9.752	(0.928)	1380912	62.5000	61.9827
$	25 1,2-Dichloroethane-d4	65	9.850	9.850	(0.937)	904958	50.0000	49.3349
	26 Carbon Tetrachloride	117	9.919	9.919	(0.944)	1334028	62.5000	63.8043
	27 1,2-Dichloroethane	62	9.998	9.998	(0.951)	1575779	62.5000	60.9391
	28 Benzene	78	10.106	10.106	(0.962)	3679102	62.5000	60.2608
*	29 1,4-Difluorobenzene	114	10.510	10.510	(1.000)	2226580	50.0000	
	30 Trichloroethene	95	11.091	11.091	(1.055)	1133429	62.5000	62.3938(M) Not File Copy
	31 1,2-Dichloropropane	63	11.298	11.298	(1.075)	1231496	62.5000	61.4216
	32 Bromodichloromethane	83	11.643	11.643	(1.108)	1391981	62.5000	61.5163
	33 Dibromomethane	93	11.692	11.692	(1.112)	1033418	62.5000	62.1916
	34 2-Chloroethylvinylether	63	13.130	13.130	(1.249)	358701	62.5000	59.6394
	35 4-Methyl-2-Pentanone	43	12.204	12.204	(1.161)	1834744	62.5000	60.4677
	36 cis-1,3-Dichloropropene	75	12.509	12.509	(1.190)	1716974	62.5000	61.4787
$	37 Toluene-d8	98	13.002	13.002	(1.237)	2207031	50.0000	49.3772
	38 Toluene	92	13.130	13.130	(1.249)	2286369	62.5000	60.3049
	39 trans-1,3-Dichloropropene	75	13.307	13.307	(1.266)	1548065	62.5000	62.3676
	40 1,1,2-Trichloroethane	85	13.573	13.573	(1.291)	664345	62.5000	62.6089
	41 2-Hexanone	43	13.622	13.622	(0.877)	1461334	62.5000	61.8559
	42 1,3-Dichloropropane	76	13.986	13.986	(0.900)	1568911	62.5000	60.8498
	43 Tetrachloroethene	166	14.282	14.282	(0.919)	956460	62.5000	61.5060
	44 Dibromochloromethane	129	14.449	14.449	(0.930)	1281514	62.5000	62.4437
	45 1,2-Dibromoethane	107	14.804	14.804	(1.409)	1234637	62.5000	61.8049
*	46 Chlorobenzene-d5	117	15.533	15.533	(1.000)	1768957	50.0000	
	47 Chlorobenzene	112	15.601	15.601	(1.004)	2631136	62.5000	60.4231
	48 1,1,1,2-Tetrachloroethane	131	15.661	15.661	(1.008)	949504	62.5000	62.4644
	49 1-Chlorohexane	91	15.877	15.877	(1.022)	5855783	62.5000	60.2035
	50 Ethylbenzene	91	15.729	15.729	(1.013)	3994385	62.5000	61.1438
	51 m,p-Xylenes	106	15.877	15.877	(1.022)	3188201	125.000	122.5319
	52 o-Xylene	106	16.626	16.626	(1.070)	1626148	62.5000	62.3655
	53 Styrene	104	16.645	16.645	(1.072)	2758966	62.5000	61.8896
	54 Bromoform	173	17.148	17.148	(1.104)	909858	62.5000	63.6487
	55 Isopropylbenzene	105	17.285	17.285	(0.872)	3677042	62.5000	60.1912
	56 1,1,2,2-Tetrachloroethane	83	17.443	17.443	(0.880)	1535962	62.5000	59.9335
$	57 Bromofluorobenzene	95	17.660	17.660	(0.891)	940349	50.0000	48.5567
	58 1,2,3-Trichloropropane	110	17.699	17.699	(0.893)	386776	62.5000	61.1414
	59 Propylbenzene	91	18.004	18.004	(0.908)	4571748	62.5000	59.9239
	60 Bromobenzene	156	18.004	18.004	(0.908)	1164594	62.5000	60.8421
	61 1,3,5-Trimethylbenzene	105	18.300	18.300	(0.923)	3132938	62.5000	60.7143
	62 2-Chlorotoluene	91	18.290	18.290	(0.923)	3114946	62.5000	59.3783
	63 4-Chlorotoluene	91	18.379	18.379	(0.927)	2892065	62.5000	59.8616

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF28.D
Report Date: 16-Jul-2004 10:04

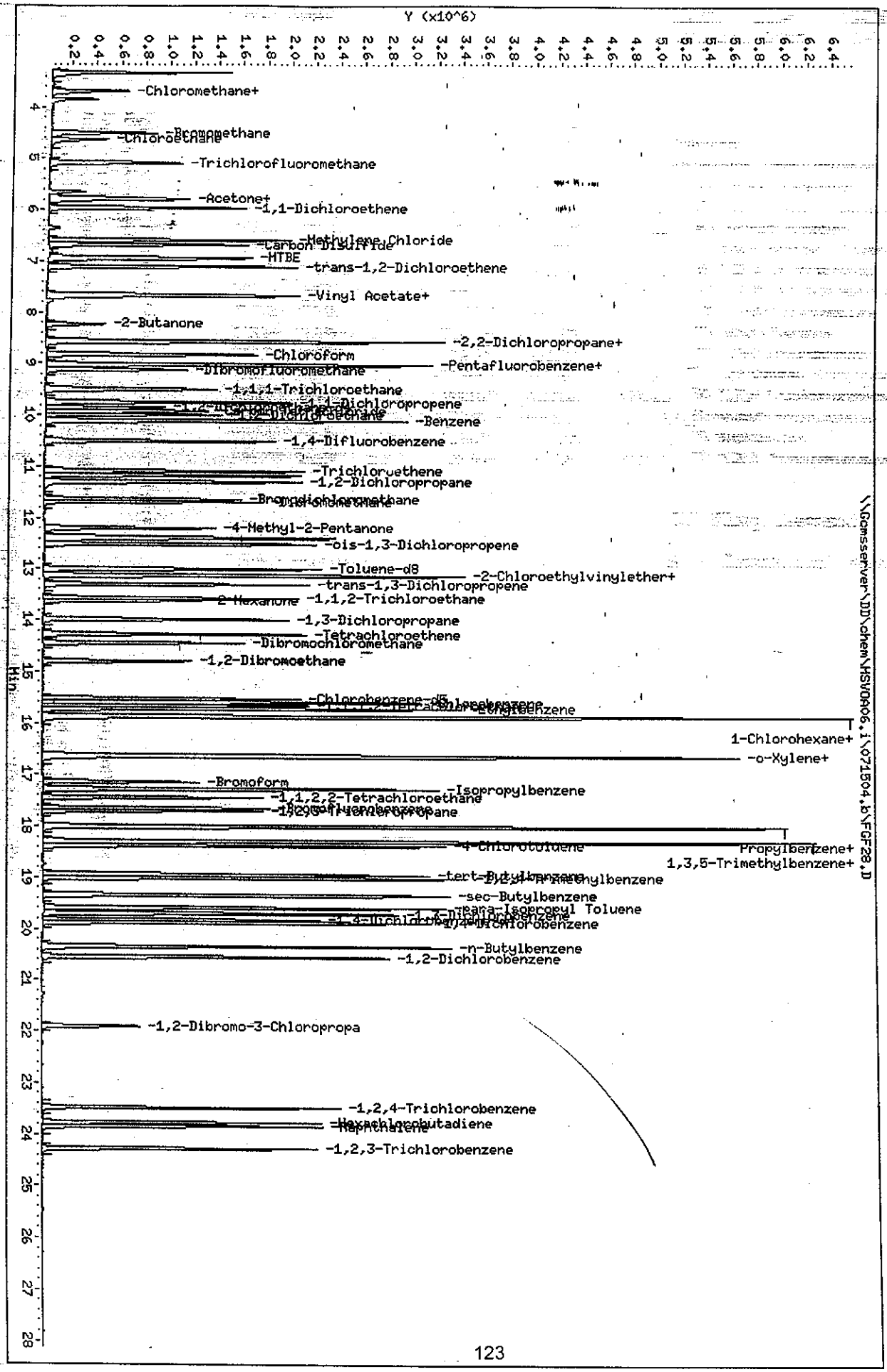
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 tert-Butylbenzene	119	18.950	18.950	(0.956)	2676315	62.5000	61.5624
65 1,2,4-Trimethylbenzene	105	19.009	19.009	(0.959)	3143493	62.5000	60.9204
66 sec-Butylbenzene	105	19.344	19.344	(0.976)	4102046	62.5000	61.0227
67 para-Isopropyl Toluene	119	19.600	19.600	(0.989)	3206642	62.5000	61.5576
68 1,3-Dichlorobenzene	146	19.708	19.708	(0.994)	1856569	62.5000	60.4261
* 69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	889984	50.0000	
70 1,4-Dichlorobenzene	146	19.885	19.885	(1.003)	1877975	62.5000	59.3042
71 n-Butylbenzene	91	20.348	20.348	(1.026)	3044794	62.5000	59.8841
72 1,2-Dichlorobenzene	146	20.555	20.555	(1.037)	1792024	62.5000	60.9379
73 1,2-Dibromo-3-Chloropropane	75	21.914	21.914	(1.105)	279886	62.5000	61.7032
74 1,2,4-Trichlorobenzene	180	23.490	23.490	(1.185)	998870	62.5000	60.8864
75 Hexachlorobutadiene	225	23.775	23.775	(1.199)	562008	62.5000	60.9609
76 Naphthalene	128	23.854	23.854	(1.203)	2384913	62.5000	63.6425
77 1,2,3-Trichlorobenzene	180	24.287	24.287	(1.225)	1008264	62.5000	61.5090

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA06.i\071504.b\FGF28.D
Date : 16-JUL-2004 02:02
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.0125/100,04WS1132B,0.025/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Report Date: 16-Jul-2004 10:04

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 02:37 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.00075/5,04WS1132B,0.0015/5
Misc Info : 75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 15-JUL-2004 23:42 Cal File: FGF24.D
Als bottle: 34 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.324	3.324	(0.369)	2577216	75.0000	80.4561
2 Chloromethane	50	3.679	3.679	(0.408)	1732420	75.0000	76.4516
3 Vinyl Chloride	62	3.836	3.836	(0.426)	642894	75.0000	72.6093
4 Bromomethane	94	4.506	4.506	(0.500)	1152522	75.0000	84.5115
5 Chloroethane	64	4.634	4.634	(0.514)	873806	75.0000	79.8226
6 Trichlorofluoromethane	101	5.077	5.077	(0.563)	2082419	75.0000	79.0500
7 Acetone	43	5.648	5.648	(0.626)	726710	75.0000	66.6902
8 Freon 113	101	5.786	5.786	(0.642)	1382739	75.0000	81.9684
9 1,1-Dichloroethene	96	5.964	5.964	(0.661)	1192996	75.0000	78.0639
10 Methylene Chloride	84	6.584	6.584	(0.730)	1482074	75.0000	72.1405
11 Carbon Disulfide	76	6.682	6.682	(0.741)	4049546	75.0000	69.1250
12 MTBE	73	6.938	6.938	(0.770)	3531148	75.0000	74.4276
13 trans-1,2-Dichloroethene	96	7.106	7.106	(0.788)	1389295	75.0000	75.4146
14 Vinyl Acetate	43	7.648	7.648	(0.848)	3683384	75.0000	71.5497
15 1,1-Dichloroethane	63	7.677	7.677	(0.851)	2616272	75.0000	73.4066
16 2-Butanone	43	8.238	8.238	(0.914)	1232948	75.0000	72.7734

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.563	8.563	(0.950)	1736994	75.0000	78.9961
	18 cis-1,2-Dichloroethene	96	8.573	8.573	(0.951)	1506317	75.0000	74.6126
	19 Chloroform	83	8.819	8.819	(0.978)	2416102	75.0000	74.0046
*	20 Pentafluorobenzene	168	9.016	9.016	(1.000)	1370605	50.0000	
	21 Bromochloromethane	128	9.026	9.026	(1.001)	871233	75.0000	75.8505
$	22 Dibromofluoromethane	113	9.115	9.115	(1.011)	1018625	50.0000	48.3435
	23 1,1,1-Trichloroethane	97	9.489	9.489	(1.052)	1894028	75.0000	78.7663
	24 1,1-Dichloropropene	75	9.745	9.745	(0.928)	1790396	75.0000	80.0798
$	25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.938)	918453	50.0000	49.8944
	26 Carbon Tetrachloride	117	9.922	9.922	(0.945)	1753658	75.0000	83.5794
	27 1,2-Dichloroethane	62	9.991	9.991	(0.951)	1954925	75.0000	75.3356
	28 Benzene	78	10.110	10.110	(0.962)	4558755	75.0000	74.4062
*	29 1,4-Difluorobenzene	114	10.503	10.503	(1.000)	2234442	50.0000	
	30 Trichloroethene	95	11.085	11.085	(1.055)	1455983	75.0000	79.1410(M)
	31 1,2-Dichloropropane	63	11.301	11.301	(1.076)	1523812	75.0000	75.7336
	32 Bromodichloromethane	83	11.636	11.636	(1.108)	1725477	75.0000	75.9864
	33 Dibromomethane	93	11.685	11.685	(1.113)	1283599	75.0000	76.9759
	34 2-Chloroethylvinylether	63	13.123	13.123	(1.249)	460506	75.0000	76.2967
	35 4-Methyl-2-Pentanone	43	12.197	12.197	(1.161)	2263831	75.0000	74.3466
	36 cis-1,3-Dichloropropene	75	12.512	12.512	(1.191)	2109795	75.0000	75.2784
$	37 Toluene-d8	98	12.995	12.995	(1.237)	2201965	50.0000	49.0905
	38 Toluene	92	13.123	13.123	(1.249)	2817229	75.0000	74.0453
	39 trans-1,3-Dichloropropene	75	13.300	13.300	(1.266)	1908318	75.0000	76.6108
	40 1,1,2-Trichloroethane	85	13.576	13.576	(1.293)	821819	75.0000	77.1769
	41 2-Hexanone	43	13.615	13.615	(0.877)	1762493	75.0000	75.1719
	42 1,3-Dichloropropane	76	13.990	13.990	(0.901)	1935647	75.0000	75.6455
	43 Tetrachloroethene	166	14.275	14.275	(0.919)	1264029	75.0000	81.9038
	44 Dibromochloromethane	129	14.443	14.443	(0.930)	1609088	75.0000	79.0026
	45 1,2-Dibromoethane	107	14.807	14.807	(1.410)	1519261	75.0000	75.7854
*	46 Chlorobenzene-d5	117	15.526	15.526	(1.000)	1755581	50.0000	
	47 Chlorobenzene	112	15.595	15.595	(1.004)	3266307	75.0000	75.5811
	48 1,1,1,2-Tetrachloroethane	131	15.654	15.654	(1.008)	1204531	75.0000	79.8454
	49 1-Chlorohexane	91	15.871	15.871	(1.022)	7177247	75.0000	74.3518
	50 Ethylbenzene	91	15.723	15.723	(1.013)	4911284	75.0000	75.7520
	51 m,p-Xylenes	106	15.871	15.871	(1.022)	4000804	150.000	154.9342
	52 o-Xylene	106	16.629	16.629	(1.071)	2006056	75.0000	77.5218
	53 Styrene	104	16.649	16.649	(1.072)	3428627	75.0000	77.4975
	54 Bromoform	173	17.141	17.141	(1.104)	1163567	75.0000	82.0170
	55 Isopropylbenzene	105	17.279	17.279	(0.872)	4589589	75.0000	75.5740
	56 1,1,2,2-Tetrachloroethane	83	17.437	17.437	(0.880)	1906919	75.0000	74.8488
$	57 Bromofluorobenzene	95	17.653	17.653	(0.891)	946893	50.0000	49.1841
	58 1,2,3-Trichloropropane	110	17.702	17.702	(0.893)	472968	75.0000	75.2092
	59 Propylbenzene	91	18.008	18.008	(0.909)	5651271	75.0000	74.5122
	60 Bromobenzene	156	18.008	18.008	(0.909)	1477664	75.0000	77.6550
	61 1,3,5-Trimethylbenzene	105	18.293	18.293	(0.923)	3910268	75.0000	76.2271
	62 2-Chlorotoluene	91	18.293	18.293	(0.923)	3845657	75.0000	73.7414
	63 4-Chlorotoluene	91	18.372	18.372	(0.927)	3586202	75.0000	74.6687

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF29.D
Report Date: 16-Jul-2004 10:04

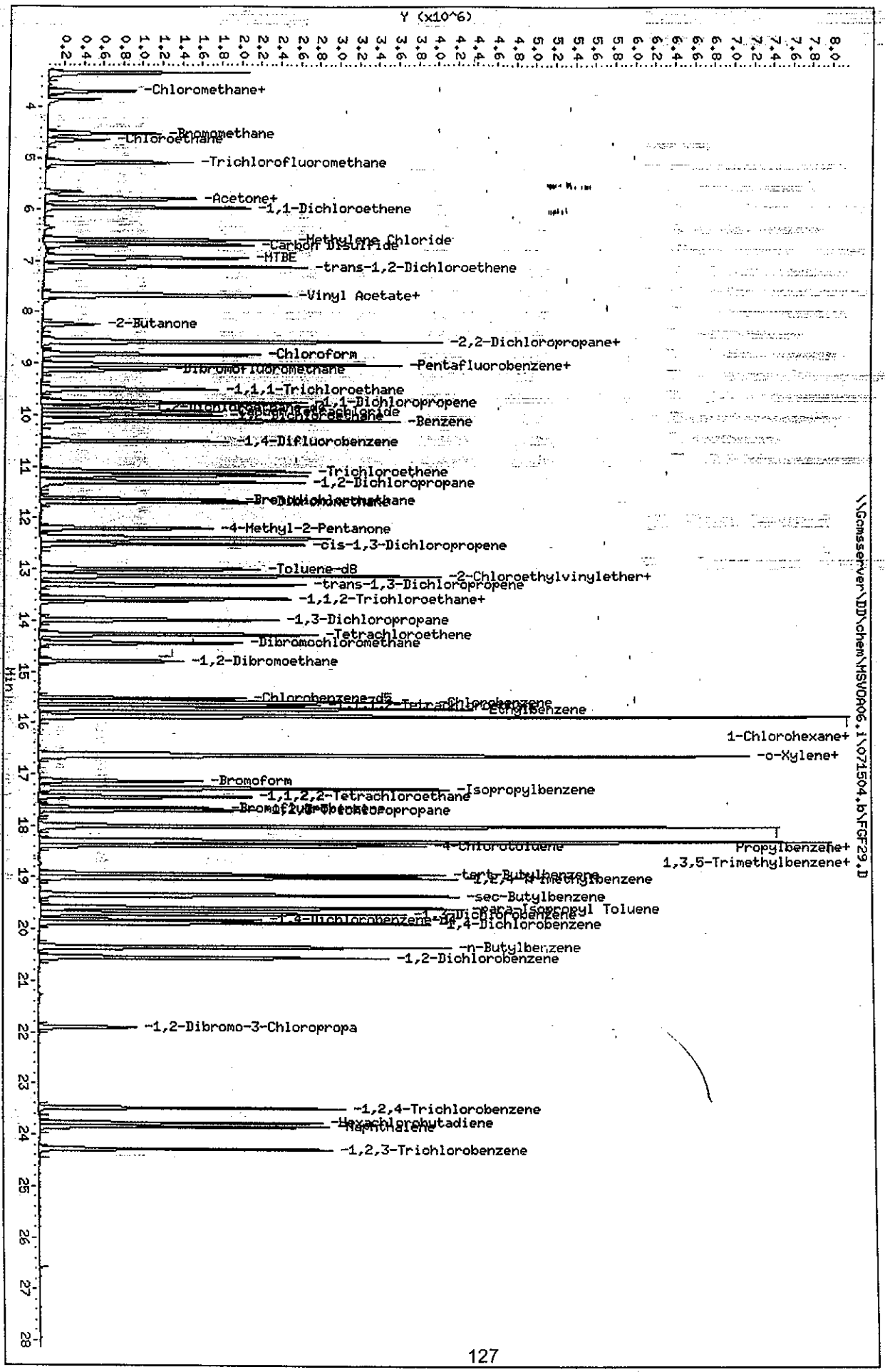
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.943	18.943	(0.956)	3370751	75.0000	77.9953
	65 1,2,4-Trimethylbenzene	105	19.002	19.002	(0.959)	3883847	75.0000	75.7140
	66 sec-Butylbenzene	105	19.347	19.347	(0.976)	5176542	75.0000	77.4630
	67 para-Isopropyl Toluene	119	19.593	19.593	(0.989)	4029938	75.0000	77.8204
	68 1,3-Dichlorobenzene	146	19.702	19.702	(0.994)	2288911	75.0000	74.9387
*	69 1,4-Dichlorobenzene-d4	152	19.820	19.820	(1.000)	884746	50.0000	
	70 1,4-Dichlorobenzene	146	19.879	19.879	(1.003)	2344502	75.0000	74.4749
	71 n-Butylbenzene	91	20.342	20.342	(1.026)	3808139	75.0000	75.3408
	72 1,2-Dichlorobenzene	146	20.549	20.549	(1.037)	2210001	75.0000	75.5962
	73 1,2-Dibromo-3-Chloropropane	75	21.908	21.908	(1.105)	344343	75.0000	76.3627
	74 1,2,4-Trichlorobenzene	180	23.483	23.483	(1.185)	1257591	75.0000	77.1107
	75 Hexachlorobutadiene	225	23.769	23.769	(1.199)	738070	75.0000	80.5323
	76 Naphthalene	128	23.848	23.848	(1.203)	2965859	75.0000	79.6139
	77 1,2,3-Trichlorobenzene	180	24.281	24.281	(1.225)	1293688	75.0000	79.3884

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF29.D
Date : 16-JUL-2004 02:37
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.00075/5,04WS1132B,0.0015/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Report Date: 16-Jul-2004 10:04

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Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 16-JUL-2004 03:11 MS Autotune Date: 08-JUL-2004 08:14
Operator : VOA Inst ID: MSVOA06.i
Smp Info : ICAL,04SS242,0.001/5,04WS1132B,0.002/5
Misc Info : 100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\I6M826.m
Meth Date : 16-Jul-2004 10:04 Administra Quant Type: ISTD
Cal Date : 16-JUL-2004 03:11 Cal File: FGF30.D
Als bottle: 35 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.320	3.320	(0.368)	3348258	100.000	100.0895
2 Chloromethane	50	3.675	3.675	(0.407)	2310717	100.000	97.6430
3 Vinyl Chloride	62	3.832	3.832	(0.425)	790391	100.000	85.4784
4 Bromomethane	94	4.502	4.502	(0.499)	1494124	100.000	104.9095
5 Chloroethane	64	4.630	4.630	(0.513)	1130085	100.000	98.8516
6 Trichlorofluoromethane	101	5.083	5.083	(0.563)	2705050	100.000	98.3264
7 Acetone	43	5.644	5.644	(0.626)	975362	100.000	85.7094
8 Freon 113	101	5.782	5.782	(0.641)	1885729	100.000	107.0402
9 1,1-Dichloroethene	96	5.959	5.959	(0.661)	1633239	100.000	102.3345
10 Methylene Chloride	84	6.590	6.590	(0.730)	2025644	100.000	94.4135
11 Carbon Disulfide	76	6.678	6.678	(0.740)	5401532	100.000	88.2892
12 MTBE	73	6.934	6.934	(0.769)	4815858	100.000	97.1971
13 trans-1,2-Dichloroethene	96	7.102	7.102	(0.787)	1908436	100.000	99.1973
14 Vinyl Acetate	43	7.653	7.653	(0.848)	4997287	100.000	92.9515
15 1,1-Dichloroethane	63	7.673	7.673	(0.850)	3563128	100.000	95.7293
16 2-Butanone	43	8.234	8.234	(0.913)	1653692	100.000	93.4640

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Report Date: 16-Jul-2004 10:04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.569	8.569	(0.950)	2380925	100.000	103.6846
	18 cis-1,2-Dichloroethene	96	8.569	8.569	(0.950)	2090823	100.000	99.1686
	19 Chloroform	83	8.825	8.825	(0.978)	3279530	100.000	96.1871
*	20 Pentafluorobenzene	168	9.022	9.022	(1.000)	1431367	50.0000	
	21 Bromochloromethane	128	9.022	9.022	(1.000)	1202266	100.000	100.2274
$	22 Dibromofluoromethane	113	9.111	9.111	(1.010)	1081024	50.0000	49.1270
	23 1,1,1-Trichloroethane	97	9.495	9.495	(1.052)	2579072	100.000	102.7020
	24 1,1-Dichloropropene	75	9.741	9.741	(0.927)	2439295	100.000	106.5961
$	25 1,2-Dichloroethane-d4	65	9.849	9.849	(0.937)	964618	50.0000	51.1980
	26 Carbon Tetrachloride	117	9.918	9.918	(0.944)	2394367	100.000	111.4931
	27 1,2-Dichloroethane	62	9.987	9.987	(0.950)	2635702	100.000	99.2361
	28 Benzene	78	10.105	10.105	(0.962)	6092353	100.000	97.1518
*	29 1,4-Difluorobenzene	114	10.509	10.509	(1.000)	2287000	50.0000	
	30 Trichloroethene	95	11.090	11.090	(1.055)	1983676	100.000	104.2987(M) MS 7116 (w)
	31 1,2-Dichloropropane	63	11.297	11.297	(1.075)	2120548	100.000	102.9695
	32 Bromodichloromethane	83	11.642	11.642	(1.108)	2373161	100.000	102.1073
	33 Dibromomethane	93	11.691	11.691	(1.112)	1764925	100.000	103.4081
	34 2-Chloroethylvinylether	63	13.129	13.129	(1.249)	619108	100.000	100.2166
	35 4-Methyl-2-Pentanone	43	12.203	12.203	(1.161)	3056443	100.000	98.0701
	36 cis-1,3-Dichloropropene	75	12.508	12.508	(1.190)	2914574	100.000	101.6034
$	37 Toluene-d8	98	13.001	13.001	(1.237)	2287468	50.0000	49.8247
	38 Toluene	92	13.129	13.129	(1.249)	3851635	100.000	98.9062
	39 trans-1,3-Dichloropropene	75	13.306	13.306	(1.266)	2584750	100.000	101.3820
	40 1,1,2-Trichloroethane	85	13.572	13.572	(1.291)	1127724	100.000	103.4706
	41 2-Hexanone	43	13.621	13.621	(0.877)	2392875	100.000	98.1517
	42 1,3-Dichloropropane	76	13.986	13.986	(0.900)	2654022	100.000	99.7495
	43 Tetrachloroethene	166	14.281	14.281	(0.919)	1719590	100.000	107.1572
	44 Dibromochloromethane	129	14.448	14.448	(0.930)	2235394	100.000	105.5516
	45 1,2-Dibromoethane	107	14.803	14.803	(1.409)	2079858	100.000	101.3654
*	46 Chlorobenzene-d5	117	15.532	15.532	(1.000)	1825457	50.0000	
	47 Chlorobenzene	112	15.601	15.601	(1.004)	4348636	100.000	96.7739
	48 1,1,1,2-Tetrachloroethane	131	15.660	15.660	(1.008)	1646578	100.000	104.9697
	49 1-Chlorohexane	91	15.876	15.876	(1.022)	9228320	100.000	91.9402
	50 Ethylbenzene	91	15.719	15.719	(1.012)	6514214	100.000	96.6296
	51 m,p-Xylenes	106	15.876	15.876	(1.022)	5352536	200.000	199.3466
	52 o-Xylene	106	16.625	16.625	(1.070)	2750532	100.000	102.2226
	53 Styrene	104	16.645	16.645	(1.072)	4610650	100.000	100.2257
	54 Bromoform	173	17.137	17.137	(1.103)	1612450	100.000	109.3070
	55 Isopropylbenzene	105	17.275	17.275	(0.871)	6151854	100.000	96.9201
	56 1,1,2,2-Tetrachloroethane	83	17.442	17.442	(0.880)	2616166	100.000	98.2488
$	57 Bromofluorobenzene	95	17.659	17.659	(0.891)	995443	50.0000	49.4708
	58 1,2,3-Trichloropropane	110	17.698	17.698	(0.893)	646024	100.000	98.2873
	59 Propylbenzene	91	18.004	18.004	(0.908)	7367386	100.000	92.9403
	60 Bromobenzene	156	18.004	18.004	(0.908)	2026824	100.000	101.9105
	61 1,3,5-Trimethylbenzene	105	18.299	18.299	(0.923)	5227018	100.000	97.4914
	62 2-Chlorotoluene	91	18.289	18.289	(0.923)	5195364	100.000	95.3160
	63 4-Chlorotoluene	91	18.378	18.378	(0.927)	4700742	100.000	93.6439

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\071504.b\FGF30.D
Report Date: 16-Jul-2004 10:04

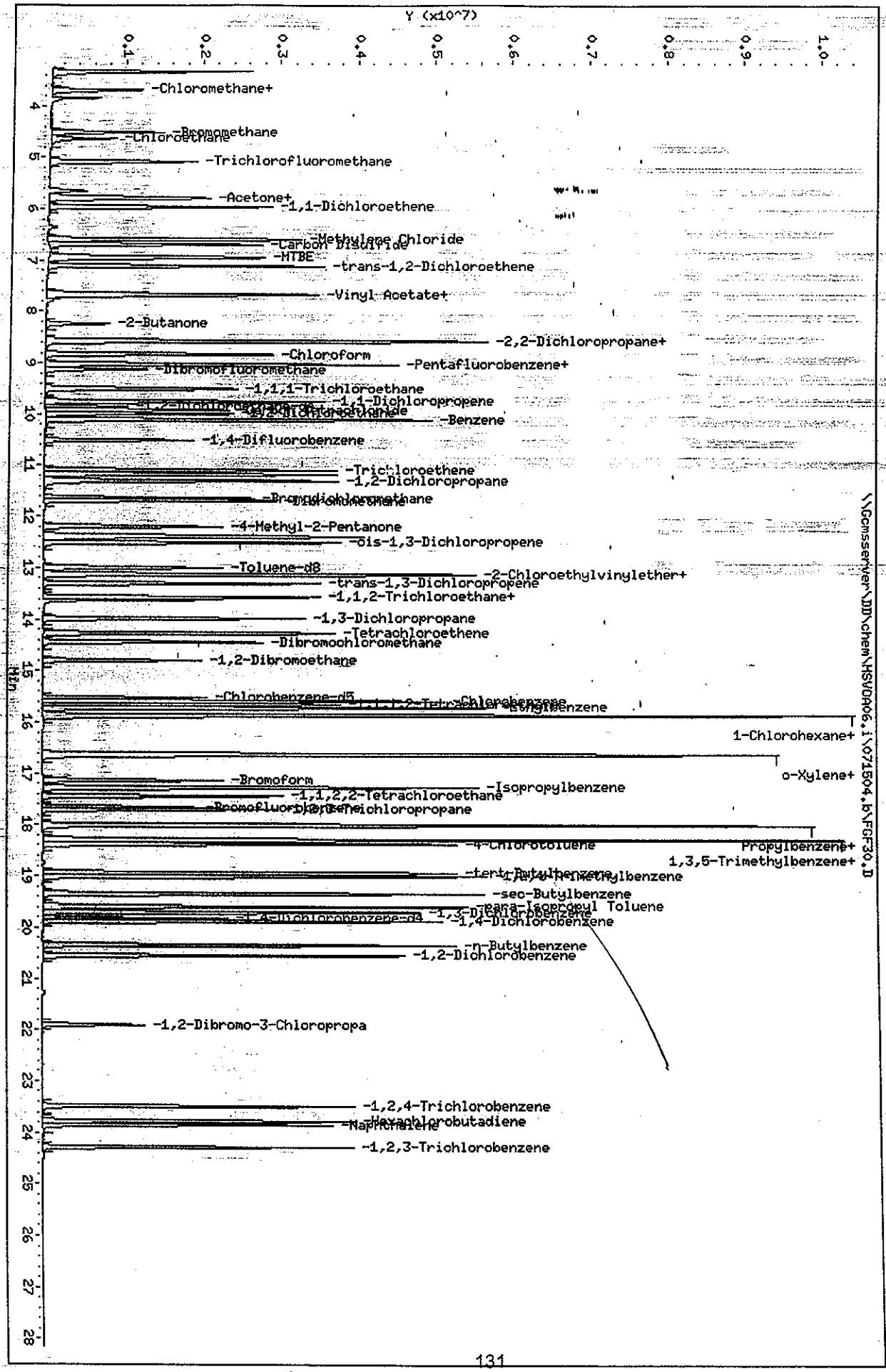
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 tert-Butylbenzene	119	18.949	18.949	(0.956)	4597801	100.000	101.7891
	65 1,2,4-Trimethylbenzene	105	19.008	19.008	(0.959)	5141594	100.000	95.9006
	66 sec-Butylbenzene	105	19.343	19.343	(0.976)	6753424	100.000	96.6914
	67 para-Isopropyl Toluene	119	19.589	19.589	(0.988)	5299470	100.000	97.9122
	68 1,3-Dichlorobenzene	146	19.707	19.707	(0.994)	3116455	100.000	97.6219
*	69 1,4-Dichlorobenzene-d4	152	19.826	19.826	(1.000)	924718	50.0000	
	70 1,4-Dichlorobenzene	146	19.885	19.885	(1.003)	3188845	100.000	96.9175
	71 n-Butylbenzene	91	20.348	20.348	(1.026)	4959772	100.000	93.8833
	72 1,2-Dichlorobenzene	146	20.554	20.554	(1.037)	2984520	100.000	97.6767
	73 1,2-Dibromo-3-Chloropropane	75	21.904	21.904	(1.105)	471031	100.000	99.9422
	74 1,2,4-Trichlorobenzene	180	23.489	23.489	(1.185)	1678744	100.000	98.4848
	75 Hexachlorobutadiene	225	23.775	23.775	(1.199)	1022353	100.000	106.7291
	76 Naphthalene	128	23.853	23.853	(1.203)	3949294	100.000	101.4301
	77 1,2,3-Trichlorobenzene	180	24.277	24.277	(1.225)	1756095	100.000	103.1063

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\071504.b\FGF30.D
Date : 16-JUL-2004 03:11
Client ID: DYNA P&T
Sample Info: ICAL,04SS242,0.001/5,04WS1132B,0.002/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: VOA
Column diameter: 0.32



8260 S ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06
Seqnum : 454284216031
Calnum : 454284216002
Standards: 04WS1304A (5000X), 04WS1255 (1000X)

Run Name : 50PPB
Filename : fgf31
Caldate : 15-JUL-2004

Injected : 16-JUL-2004 03:46
Caltype : SOIL

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Freon 12	50.00000	42.88800	ug/L	-14	30
Chloromethane	50.00000	51.40060	ug/L	3	30
Vinyl Chloride	50.00000	52.57370	ug/L	5	20
Bromomethane	50.00000	53.19530	ug/L	6	30
Chloroethane	50.00000	52.77740	ug/L	6	30
Trichlorofluoromethane	50.00000	56.91360	ug/L	14	30
Dibromofluoromethane	50.00000	49.49890	ug/L	-1	30
1,2-Dichloroethane-d4	50.00000	49.18370	ug/L	-2	30
Toluene-d8	50.00000	48.87250	ug/L	-2	30
Bromofluorobenzene	50.00000	51.54410	ug/L	3	30

ISTD (ICAL-fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1289103	0.64	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2173973	2.35	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1711419	-1.40	15.53	15.52	-0.01
1,4-Dichlorobenzene-d4	863989	784241	-9.23	19.83	19.83	0.00

MO 7/16/04

07/16/04

82605 ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB Injected : 16-JUL-2004 04:21
Seqnum : 454284216032 Filename : fgf32 Caltype : SOIL

Standards: 04WS1032D (5000X), 04WS1255 (1000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max Flags	
Acetone	454284216002	15-JUL-2004	50.00000	44.07880	ug/L	-12	40	
Freon 113	454284216002	15-JUL-2004	50.00000	58.00470	ug/L	16	30	
1,1-Dichloroethene	454284216002	15-JUL-2004	50.00000	50.26440	ug/L	1	20	
Methylene Chloride	454284216002	15-JUL-2004	50.00000	49.74400	ug/L	-1	30	
Carbon Disulfide	454284216002	15-JUL-2004	50.00000	46.53060	ug/L	-7	30	
MTBE	454284216002	15-JUL-2004	50.00000	55.12340	ug/L	10	30	
trans-1,2-Dichloroethene	454284216002	15-JUL-2004	50.00000	50.69130	ug/L	1	30	
Vinyl Acetate	454284216002	15-JUL-2004	50.00000	51.46700	ug/L	3	40	
1,1-Dichloroethane	454284216002	15-JUL-2004	50.00000	50.87750	ug/L	2	30	
2-Butanone	454284216002	15-JUL-2004	50.00000	47.53560	ug/L	-5	40	
2,2-Dichloropropane	454284216002	15-JUL-2004	50.00000	54.04750	ug/L	8	30	
cis-1,2-Dichloroethene	454284216002	15-JUL-2004	50.00000	51.17650	ug/L	2	30	
Chloroform	454284216002	15-JUL-2004	50.00000	50.61250	ug/L	1	20	
Bromochloromethane	454284216002	15-JUL-2004	50.00000	51.22050	ug/L	2	30	
1,1,1-Trichloroethane	454284216002	15-JUL-2004	50.00000	54.16150	ug/L	8	30	
1,1-Dichloropropene	454284216002	15-JUL-2004	50.00000	54.04810	ug/L	8	30	
Carbon Tetrachloride	454284216002	15-JUL-2004	50.00000	57.60700	ug/L	15	30	
1,2-Dichloroethane	454284216002	15-JUL-2004	50.00000	52.44180	ug/L	5	30	
Benzene	454284216002	15-JUL-2004	50.00000	53.54930	ug/L	7	30	
Trichloroethene	454284216002	15-JUL-2004	50.00000	50.60650	ug/L	1	30	
1,2-Dichloropropane	454284216002	15-JUL-2004	50.00000	51.36140	ug/L	3	20	
Bromodichloromethane	454284216002	15-JUL-2004	50.00000	57.29990	ug/L	15	30	
Dibromomethane	454284216002	15-JUL-2004	50.00000	52.84400	ug/L	6	30	
2-Chloroethylvinylether	453472922001	24-NOV-2003	50.00000	54.03690	ug/L	8	40 !	(NOT USED) NT/NJ
4-Methyl-2-Pentanone	454284216002	15-JUL-2004	50.00000	49.17190	ug/L	-2	40	
cis-1,3-Dichloropropene	454284216002	15-JUL-2004	50.00000	52.91370	ug/L	6	30	
Toluene	454284216002	15-JUL-2004	50.00000	53.43480	ug/L	7	20	
trans-1,3-Dichloropropene	454284216002	15-JUL-2004	50.00000	50.50110	ug/L	1	30	
1,1,2-Trichloroethane	454284216002	15-JUL-2004	50.00000	52.94790	ug/L	6	30	
2-Hexanone	454284216002	15-JUL-2004	50.00000	48.75190	ug/L	-2	40	
1,3-Dichloropropane	454284216002	15-JUL-2004	50.00000	52.21420	ug/L	4	30	
Tetrachloroethene	454284216002	15-JUL-2004	50.00000	54.33470	ug/L	9	30	
Dibromochloromethane	454284216002	15-JUL-2004	50.00000	51.55190	ug/L	3	30	
1,2-Dibromoethane	454284216002	15-JUL-2004	50.00000	53.48800	ug/L	7	30	
Chlorobenzene	454284216002	15-JUL-2004	50.00000	50.49870	ug/L	1	30	
1,1,1,2-Tetrachloroethane	454284216002	15-JUL-2004	50.00000	52.25390	ug/L	5	30	
Ethylbenzene	454284216002	15-JUL-2004	50.00000	52.97010	ug/L	6	20	
m,p-Xylenes	454284216002	15-JUL-2004	100.0000	104.6006	ug/L	5	30	
o-Xylene	454284216002	15-JUL-2004	50.00000	52.86860	ug/L	6	30	
Styrene	454284216002	15-JUL-2004	50.00000	53.70610	ug/L	7	30	
Bromoform	454284216002	15-JUL-2004	50.00000	53.67550	ug/L	7	30	
Isopropylbenzene	454284216002	15-JUL-2004	50.00000	47.02620	ug/L	-6	30	
1,1,2,2-Tetrachloroethane	454284216002	15-JUL-2004	50.00000	49.53570	ug/L	-1	30	
1,2,3-Trichloropropane	454284216002	15-JUL-2004	50.00000	49.62080	ug/L	-1	30	
Propylbenzene	454284216002	15-JUL-2004	50.00000	50.84610	ug/L	2	30	
Bromobenzene	454284216002	15-JUL-2004	50.00000	51.34630	ug/L	3	30	
1,3,5-Trimethylbenzene	454284216002	15-JUL-2004	50.00000	52.33650	ug/L	5	30	

No Flags

!=calc err

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8260 5 ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB Injected : 16-JUL-2004 04:21
Eqnum : 454284216032 Filename : fgf32 Caltype : SOIL

Standards: 04WS1032D (5000X), 04WS1255 (1000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max Flags	
2-Chlorotoluene	454284216002	15-JUL-2004	50.00000	50.47540	ug/L	1	30	
4-Chlorotoluene	454284216002	15-JUL-2004	50.00000	51.23060	ug/L	2	30	
tert-Butylbenzene	454284216002	15-JUL-2004	50.00000	53.95090	ug/L	8	30	
1,2,4-Trimethylbenzene	454284216002	15-JUL-2004	50.00000	52.42190	ug/L	5	30	
sec-Butylbenzene	454284216002	15-JUL-2004	50.00000	53.12120	ug/L	6	30	
para-Isopropyl Toluene	454284216002	15-JUL-2004	50.00000	51.72850	ug/L	3	30	
1,3-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.20300	ug/L	2	30	
1,4-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.25420	ug/L	3	30	
n-Butylbenzene	454284216002	15-JUL-2004	50.00000	54.13300	ug/L	8	30	
1,2-Dichlorobenzene	454284216002	15-JUL-2004	50.00000	51.07620	ug/L	2	30	
1,2-Dibromo-3-Chloropropane	454284216002	15-JUL-2004	50.00000	51.67830	ug/L	3	30	
1,2,4-Trichlorobenzene	454284216002	15-JUL-2004	50.00000	54.32950	ug/L	9	30	
Hexachlorobutadiene	454284216002	15-JUL-2004	50.00000	54.79390	ug/L	10	30	
Naphthalene	454284216002	15-JUL-2004	50.00000	56.70500	ug/L	13	30	
1,2,3-Trichlorobenzene	454284216002	15-JUL-2004	50.00000	55.73370	ug/L	11	30	
Dibromofluoromethane	454284216002	15-JUL-2004	50.00000	48.83090	ug/L	-2	30	(NOT USED)
1,2-Dichloroethane-d4	454284216002	15-JUL-2004	50.00000	49.96750	ug/L	0	30	(NOT USED)
Toluene-d8	454284216002	15-JUL-2004	50.00000	50.67480	ug/L	1	30	(NOT USED)
Bromofluorobenzene	454284216002	15-JUL-2004	50.00000	48.14140	ug/L	-4	30	(NOT USED)

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1352725	5.61	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2194753	3.33	10.51	10.51	0.00
Chlorobenzene-d5	1735753	1773604	2.18	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	901108	4.30	19.83	19.83	0.00

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Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 60PPB IDF : 1.0
Seqnum : 454333253003 Filename : fhi03 Injected : 18-AUG-2004 11:16
Calnum : 454284216002 Caldate : 15-JUL-2004 Caltype : SOIL
Standards: 04WS1452B (8333X), 04WS1422C (4167X), 04WS1495 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	1.1686	0.8573	60.00000	44.01750	ug/L	-27	30	0.0500	!c-
Chloromethane	0.8267	0.7217	60.00000	52.38000	ug/L	-13	30	0.1000	
Vinyl Chloride	0.3230	0.2668	60.00000	49.55330	ug/L	-17	20	0.0500	
Bromomethane	0.4975	0.4724	60.00000	56.96890	ug/L	-5	30	0.0500	
Chloroethane	0.3993	0.3550	60.00000	53.34230	ug/L	-11	30	0.0500	
Trichlorofluoromethane	0.9610	0.9551	60.00000	59.62890	ug/L	-1	30	0.0500	
Acetone	0.3975	0.4089	60.00000	61.72160	ug/L	3	40	0.0500	
Freon 113	0.6154	0.6149	60.00000	59.95450	ug/L	0	30	0.0500	
1,1-Dichloroethene	0.5575	0.5761	60.00000	62.00300	ug/L	3	20	0.0500	
Methylene Chloride	0.7495	0.7024	60.00000	56.23460	ug/L	-6	30	0.0500	
Carbon Disulfide	2.1371	1.9666	60.00000	55.21170	ug/L	-8	30	0.0500	
MTBE	1.7308	1.4653	60.00000	50.79810	ug/L	-15	30	0.0500	
trans-1,2-Dichloroethene	0.6720	0.6625	60.00000	59.14410	ug/L	-1	30	0.0500	
Vinyl Acetate	1.8780	1.7038	60.00000	54.43360	ug/L	-9	40	0.0500	
1,1-Dichloroethane	1.3002	1.1513	60.00000	53.12980	ug/L	-11	30	0.1000	
2-Butanone	0.6181	0.5479	60.00000	53.18830	ug/L	-11	40	0.0500	
2,2-Dichloropropane	0.8021	0.8031	60.00000	60.07380	ug/L	0	30	0.0500	
cis-1,2-Dichloroethene	0.7365	0.7098	60.00000	57.82620	ug/L	-4	30	0.0500	
Chloroform	1.1910	1.0978	60.00000	55.30550	ug/L	-8	20	0.0500	
Bromochloromethane	0.4190	0.4057	60.00000	58.09520	ug/L	-3	30	0.0500	
1,1,1-Trichloroethane	0.8772	0.8121	60.00000	55.54630	ug/L	-7	30	0.0500	
1,1-Dichloropropene	0.5003	0.5354	60.00000	64.21070	ug/L	7	30	0.0500	
Carbon Tetrachloride	0.4695	0.5115	60.00000	65.36740	ug/L	9	30	0.0500	
1,2-Dichloroethane	0.5807	0.5462	60.00000	56.44260	ug/L	-6	30	0.0500	
Benzene	1.3710	1.3908	60.00000	60.86440	ug/L	1	30	0.0500	
Trichloroethene	0.4158	0.4528	60.00000	65.34370	ug/L	9	30	0.0500	m
1,2-Dichloropropane	0.4502	0.4413	60.00000	58.80630	ug/L	-2	20	0.0500	
Bromodichloromethane	0.5081	0.5486	60.00000	64.78370	ug/L	8	30	0.0500	
Dibromomethane	0.3731	0.3900	60.00000	62.71020	ug/L	5	30	0.0500	
4-Methyl-2-Pentanone	0.6814	0.6147	60.00000	54.13110	ug/L	-10	40	0.0500	
cis-1,3-Dichloropropene	0.6271	0.6454	60.00000	61.74650	ug/L	3	30	0.0500	
Toluene	0.8514	0.8509	60.00000	59.96430	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.5574	0.5692	60.00000	61.26560	ug/L	2	30	0.0500	
1,1,2-Trichloroethane	0.2383	0.2477	60.00000	62.36840	ug/L	4	30	0.0500	
2-Hexanone	0.6678	0.5830	60.00000	52.38750	ug/L	-13	40	0.0500	
1,3-Dichloropropane	0.7288	0.6854	60.00000	56.43280	ug/L	-6	30	0.0500	
Tetrachloroethene	0.4395	0.4983	60.00000	68.02420	ug/L	13	30	0.0500	
Dibromochloromethane	0.5801	0.5677	60.00000	58.71910	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.4486	0.4578	60.00000	61.23710	ug/L	2	30	0.0500	
Chlorobenzene	1.2308	1.2056	60.00000	58.76930	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4297	0.4369	60.00000	61.01340	ug/L	2	30	0.0500	
Ethylbenzene	1.8465	1.8012	60.00000	58.52670	ug/L	-2	20	0.0500	
m,p-Xylenes	0.7354	0.7393	120.0000	120.6231	ug/L	1	30	0.0500	
o-Xylene	0.7370	0.7363	60.00000	59.94230	ug/L	0	30	0.0500	
Styrene	1.2600	1.2476	60.00000	59.40630	ug/L	-1	30	0.0500	
Bromoform	0.4041	0.4382	60.00000	65.07830	ug/L	8	30	0.1000	

!=warning -=low bias c=CCV m=manual integration

135

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 60PPB IDF : 1.0
Seqnum : 454333253003 Filename : fhi03 Injected : 18-AUG-2004 11:16
Calnum : 454284216002 Caldate : 15-JUL-2004 Caltype : SOIL
Standards: 04WS1452B (8333X), 04WS1422C (4167X), 04WS1495 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Isopropylbenzene	3.4320	3.3189	60.00000	58.02150	ug/L	-3	30	0.0500	
1,1,2,2-Tetrachloroethane	1.4398	1.3501	60.00000	56.26190	ug/L	-6	30	0.3000	
1,2,3-Trichloropropane	0.3554	0.3264	60.00000	55.10050	ug/L	-8	30	0.0500	
Propylbenzene	4.2862	4.1452	60.00000	58.02700	ug/L	-3	30	0.0500	
Bromobenzene	1.0754	1.1056	60.00000	61.68880	ug/L	3	30	0.0500	
1,3,5-Trimethylbenzene	2.8990	2.8459	60.00000	58.90200	ug/L	-2	30	0.0500	
2-Chlorotoluene	2.9472	2.7769	60.00000	56.53290	ug/L	-6	30	0.0500	
4-Chlorotoluene	2.7142	2.6874	60.00000	59.40700	ug/L	-1	30	0.0500	
tert-Butylbenzene	2.4424	2.3872	60.00000	58.64430	ug/L	-2	30	0.0500	m
1,2,4-Trimethylbenzene	2.8989	2.8281	60.00000	58.53400	ug/L	-2	30	0.0500	
sec-Butylbenzene	3.7766	3.7322	60.00000	59.29520	ug/L	-1	30	0.0500	
para-Isopropyl Toluene	2.9265	2.9550	60.00000	60.58350	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	1.7261	1.8049	60.00000	62.73910	ug/L	5	30	0.0500	
1,4-Dichlorobenzene	1.7791	1.8585	60.00000	62.67960	ug/L	4	30	0.0500	
n-Butylbenzene	2.8565	2.9107	60.00000	61.13920	ug/L	2	30	0.0500	
1,2-Dichlorobenzene	1.6521	1.6889	60.00000	61.33470	ug/L	2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2548	0.2245	60.00000	52.85260	ug/L	-12	30	0.0500	
1,2,4-Trichlorobenzene	0.9217	1.0797	60.00000	70.28710	ug/L	17	30	0.0500	
Hexachlorobutadiene	0.5179	0.5913	60.00000	68.50010	ug/L	14	30	0.0500	
Naphthalene	2.1053	1.9931	60.00000	56.80330	ug/L	-5	30	0.0500	
1,2,3-Trichlorobenzene	0.9209	1.0100	60.00000	65.80040	ug/L	10	30	0.0500	
Dibromofluoromethane	0.7687	0.6763	50.00000	43.98960	ug/L	-12	30	0.0500	
1,2-Dichloroethane-d4	0.4119	0.3941	50.00000	47.83870	ug/L	-4	30	0.0500	
Toluene-d8	1.0037	0.9940	50.00000	49.51470	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.0880	1.0079	50.00000	46.31900	ug/L	-7	30	0.0500	

ISTD (ICAL=fgf27)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1280892	1648675	28.71	9.02	9.02	0.00
1,4-Difluorobenzene	2124066	2467225	16.16	10.51	10.51	0.00
Chlorobenzene-d5	1735753	2065415	18.99	15.53	15.53	0.00
1,4-Dichlorobenzene-d4	863989	1045951	21.06	19.83	19.83	0.00

!=warning -=low bias c=CCV m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 18-AUG-2004
Sequence: 454333253 (fhi)
Instrument ID: MSVOA06

ICAL Filename: fgf27
Date Analyzed: 16-JUL-2004
Time Analyzed: 01:27

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1280892	9.02	2124066	10.51	1735753	15.53	863989	19.83
LOWER LIMIT	640446	8.52	1062033	10.01	867877	15.03	431995	19.33
UPPER LIMIT	2561784	9.52	4248132	11.01	3471506	16.03	1727978	20.33

TYPE	SAMPLE	#								
CCV	60PPB	003	1648675	9.02	2467225	10.51	2065415	15.53	1045951	19.83
BS	QC261597	004	1830105	9.02	2798440	10.51	2297938	15.53	1146791	19.82
BSD	QC261598	005	1691414	9.02	2626119	10.51	2196021	15.53	1138866	19.83
BLANK	QC261599	007	1487028	9.02	2375046	10.51	1953511	15.53	907232	19.83
SAMPLE	174058-002	008	1501187	9.03	2489940	10.51	2041750	15.54	929497	19.83
MSS	174074-001	009	1422108	9.02	2347799	10.51	1887632	15.53	813574	19.84
MS	QC261626	010	1713060	9.02	2712234	10.51	2230673	15.53	1055516	19.83
MSD	QC261627	011	1377410	9.03	2204464	10.51	1825525	15.53	882383	19.83
SAMPLE	174080-005	013	1415498	9.03	2379487	10.52	1923358	15.54	854671	19.84
SAMPLE	173958-001	015	1371891	9.03	2225400	10.51	1789126	15.54	811683	19.83

8260S ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 15-JUL-2004

Sequence: 454284216 Instrument: MSVOA06 HP GCMS VOA 06
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	fgf01	X	IB		15-JUL-2004 08:56	1.0					1	
002	fgf02	TUN	BFB		15-JUL-2004 09:32	1.0	1				2	not used
003	fgf03	CCV	25PPB		15-JUL-2004 09:56	1.0	1	5000			3 4 5 1 cc-	
004	fgf04	TUN	BFB		15-JUL-2004 11:05	1.0					6	
005	fgf05	CCV	25PPB		15-JUL-2004 11:24	1.0	2	5000			3 4 5 1 cc-	
006	fgf06	TUN	BFB adj tune		15-JUL-2004 12:44	1.0					6	
007	fgf07	CCV	25PPB		15-JUL-2004 13:03	1.0	1	5000			3 4 5 1 cc-	
008	fgf08	TUN	BFB Did map		15-JUL-2004 14:21	1.0					6	
009	fgf09	CCV	25PPB		15-JUL-2004 14:42	1.0	2	5000			3 4 5 1 cc-	
010	fgf10	X	IB		15-JUL-2004 15:48	1.0					1	
011	fgf11	TUN	BFB		15-JUL-2004 16:30	1.0					6	
012	fgf12	X	IB		15-JUL-2004 16:46	1.0					1	
013	fgf13	X	CALIB IB H_2O		15-JUL-2004 17:20	1.0					1	
014	fgf14	ICAL	0.5/1PPB H_2O		15-JUL-2004 17:55	1.0					3 4 5 1 t	
015	fgf15	ICAL	5PPB H_2O		15-JUL-2004 18:30	1.0					3 4 5 1 t	
016	fgf16	ICAL	10PPB		15-JUL-2004 19:05	1.0					3 4 5 1 t	
017	fgf17	ICAL	20PPB		15-JUL-2004 19:40	1.0					3 4 5 1 t	
018	fgf18	ICAL	50PPB		15-JUL-2004 20:15	1.0					3 4 5 1 t	
019	fgf19	ICAL	75PPB		15-JUL-2004 20:49	1.0					3 4 5 1 t	
020	fgf20	ICAL	100PPB		15-JUL-2004 21:24	1.0					3 4 5 1 t	
021	fgf21	ICV	50PPB		15-JUL-2004 21:59	1.0		5000			7 1	
022	fgf22	ICV	50PPB		15-JUL-2004 22:34	1.0		5000			8 1	
023	fgf23	X	CALIB IB Soil		15-JUL-2004 23:08	1.0					1	
024	fgf24	ICAL	5PPB Soil		15-JUL-2004 23:42	1.0					3 4 1	
025	fgf25	ICAL	10PPB		16-JUL-2004 00:17	1.0					3 4 1	
026	fgf26	ICAL	20PPB		16-JUL-2004 00:52	1.0					3 4 1	
027	fgf27	ICAL	50PPB		16-JUL-2004 01:27	1.0					3 4 1	
028	fgf28	ICAL	62.5PPB		16-JUL-2004 02:02	1.0					3 4 1	
029	fgf29	ICAL	75PPB		16-JUL-2004 02:37	1.0					3 4 1	
030	fgf30	ICAL	100PPB		16-JUL-2004 03:11	1.0					3 4 1	

Stds used: 1=04WS1255 2=04WS0483 3=04SS242 4=04WS1132B 5=04WS1278A 6=04WS1238 7=04WS1304A 8=04WS1032C 9=04WS1032D
Flags used: -=low bias cc=CCV CCC failure t=tune failure * ICAL - OK
* ICV - OK

Analyst: BLO Date: 7/16/04

Page 1 of 2

07/16/04

8260S ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 15-JUL-2004

Sequence: 454284216 Instrument: MSVOA06 HP GCMS VOA 06

Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
031	fgf31	ICV	50PPB			16-JUL-2004 03:46	1.0			5000			7 1	
032	fgf32	ICV	50PPB			16-JUL-2004 04:21	1.0			5000			9 1	
033	fgf33	X	IB			16-JUL-2004 04:56	1.0						1	
034	fgf34	X	IB			16-JUL-2004 05:31	1.0						1	
035	fgf35	X	IB			16-JUL-2004 06:06	1.0						1	

Stds used: 1=04WS1255 2=04WS0483 3=04SS242 4=04WS1132B 5=04WS1278A 6=04WS1238 7=04WS1304A 8=04WS1032C 9=04WS1032D

Flags used: -=low bias cc=CCV CCC failure t=tune failure

Analyst: RLR Date: 7/16/04

Page 2 of 2

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 454333253 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 18-AUG-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	fhi01	X	IB			18-AUG-2004 10:13	1.0					1	
002	fhi02	TUN	BFB			18-AUG-2004 10:59	1.0					2	
003	fhi03	CCV	60PPB			18-AUG-2004 11:16	1.0		5000			3 4 1	
004	fhi04	BS	QC261597	93845	Soil	18-AUG-2004 12:07	1.0	1	5000			5 6 1	
005	fhi05	BSD	QC261598	93845	Soil	18-AUG-2004 12:42	1.0	1	5000			5 6 1	
006	fhi06	X	IB			18-AUG-2004 13:16	1.0					1	
007	fhi07	BLANK	QC261599	93845	Soil	18-AUG-2004 13:51	1.0	1	5000			1	
008	fhi08	SAMPLE	174058-002	93845	Soil	18-AUG-2004 14:26	0.9434		5000	B	Soil	1	
009	fhi09	MSS	174074-001	93845	Soil	18-AUG-2004 15:04	0.9434	1	5000	A		1	
010	fhi10	MS	QC261626	93845	Soil	18-AUG-2004 15:39	0.9434	2	5000			5 6 1	1:ACE=116.862 OK
011	fhi11	MSD	QC261627	93845	Soil	18-AUG-2004 16:13	0.9434	2	5000			5 6 1	1:ACE=124.479
012	fhi12	X	IB			18-AUG-2004 16:48	1.0					1	
013	fhi13	SAMPLE	174080-005	93845	Soil	18-AUG-2004 17:22	1.0		5000	A	Soil	1	
014	fhi14	X	IB			18-AUG-2004 17:57	1.0					1	
015	fhi15	SAMPLE	173958-001	93845	Soil	18-AUG-2004 18:32	1.0		5000	A	Soil	1	
016	fhi16	X	IB			18-AUG-2004 19:06	1.0					1	
017	fhi17	X	IB			18-AUG-2004 19:41	1.0					1	
018	fhi18	X	IB			18-AUG-2004 20:16	1.0					1	
019	fhi19	X	6A			18-AUG-2004 20:50	1.0					1	
020	fhi20	X	6B			18-AUG-2004 21:25	1.0					1	

<RL

IHRL - Good ICV - Good CCV - Good (CWL: F12V)

Stds used: 1=04WS1495 2=04WS1238 3=04WS1452B 4=04WS1422C 5=04WS1387A 6=04WS1384C

Analyst: [signature] Date: 8/19/04

Page 1 of 1

[signature] 08/19/04

REPORTING SUMMARY FOR 174074 8260 Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
				C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
				1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B	P
				2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	P	1	U	H
											2				2				3							2			2				2		3	2		3																		2	3		2	2			2	3	3			
174074-001	MSVOA06	08/18/04 15:04	0.9434	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261597	MSVOA06	08/18/04 12:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261598	MSVOA06	08/18/04 12:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261599	MSVOA06	08/18/04 13:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261626	MSVOA06	08/18/04 15:39	0.9434	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261627	MSVOA06	08/18/04 16:13	0.9434	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 8/18/04

Prepped by: Rio

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	174074-1	5.3	A		6	MS/MS/MSD		
2	174080-5	5.0	A		↓	comp 1-4		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26	174958-1		A		6	Freezer blk		

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	174058-2	5.3	B		6			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
1,1-Dichloroethene	ug/Kg	08/25/04	0.70	01/07/04	0.71	02/13/04	0.45
Benzene	ug/Kg	08/25/04	0.58	01/07/04	0.43	02/16/04	0.055
Trichloroethene	ug/Kg	08/25/04	0.54	01/07/04	1.1	02/16/04	0.11
Toluene	ug/Kg	08/25/04	0.47	01/07/04	0.59	02/16/04	0.13
Chlorobenzene	ug/Kg	08/25/04	0.58	01/07/04	0.39	02/16/04	0.076
Freon 12	ug/Kg	08/25/04	0.49	01/07/04	1.4	02/16/04	0.084
Chloromethane	ug/Kg	08/25/04	0.82	01/07/04	0.90	02/16/04	0.12
Vinyl Chloride	ug/Kg	08/25/04	0.79	01/07/04	1.9	02/16/04	0.32
Bromomethane	ug/Kg	08/25/04	1.4	01/07/04	0.87	02/16/04	0.27
Chloroethane	ug/Kg	08/25/04	0.60	01/07/04	0.86	02/16/04	0.26
Trichlorofluoromethane	ug/Kg	08/25/04	0.80	01/07/04	0.73	02/16/04	0.15
Acetone	ug/Kg	08/25/04	1.7	01/07/04	2.9	02/13/04	1.0
Freon 113	ug/Kg	08/25/04	0.81	01/07/04	0.73	02/16/04	0.11
Methylene Chloride	ug/Kg	08/25/04	0.38	01/07/04	1.1	02/13/04	0.65
MTBE	ug/Kg	08/25/04	0.43	01/07/04	0.58	02/16/04	0.12
Carbon Disulfide	ug/Kg	08/31/04	4.0	01/07/04	0.92	02/16/04	0.10
trans-1,2-Dichloroethene	ug/Kg	08/25/04	0.47	01/07/04	0.54	02/16/04	0.20
Vinyl Acetate	ug/Kg	08/25/04	0.66	01/07/04	0.68	02/16/04	0.073
1,1-Dichloroethane	ug/Kg	08/25/04	0.48	01/07/04	0.45	02/16/04	0.085
2-Butanone	ug/Kg	08/25/04	2.0	01/07/04	1.6	02/16/04	0.12
cis-1,2-Dichloroethene	ug/Kg	08/25/04	0.79	01/07/04	0.31	02/16/04	0.095
2,2-Dichloropropane	ug/Kg	08/25/04	0.78	01/07/04	0.86	02/16/04	0.058
Chloroform	ug/Kg	08/25/04	0.72	01/07/04	0.44	02/16/04	0.12
Bromochloromethane	ug/Kg	08/25/04	0.56	01/07/04	0.74	02/16/04	0.13
1,1,1-Trichloroethane	ug/Kg	08/25/04	1.0	01/07/04	0.50	02/16/04	0.13
1,1-Dichloropropene	ug/Kg	08/25/04	0.65	01/07/04	0.90	02/16/04	0.081
Carbon Tetrachloride	ug/Kg	08/25/04	0.59	01/07/04	0.45	02/13/04	0.36
1,2-Dichloroethane	ug/Kg	08/25/04	0.51	01/07/04	0.66	02/16/04	0.091
1,2-Dichloropropane	ug/Kg	08/25/04	0.99	01/07/04	0.44	02/16/04	0.096
Bromodichloromethane	ug/Kg	08/25/04	0.71	01/07/04	0.41	02/16/04	0.13
Dibromomethane	ug/Kg	08/25/04	0.59	01/07/04	0.69	02/16/04	0.16
2-Chloroethylvinylether	ug/Kg	01/30/03	0.25	08/08/03	0.37	02/12/03	0.31
4-Methyl-2-Pentanone	ug/Kg	08/25/04	1.6	01/07/04	0.73	02/13/04	0.25
Tetramethyl THF	ug/Kg	08/25/04	0.88	01/07/04	0.43		
cis-1,3-Dichloropropene	ug/Kg	08/25/04	0.52	01/07/04	0.41	02/13/04	0.26
trans-1,3-Dichloropropene	ug/Kg	08/25/04	0.80	01/07/04	0.54	02/16/04	0.091
1,1,2-Trichloroethane	ug/Kg	08/25/04	0.78	01/07/04	0.55	02/16/04	0.25
2-Hexanone	ug/Kg	08/25/04	0.81	01/07/04	0.50	02/16/04	0.12
1,3-Dichloropropane	ug/Kg	08/25/04	0.51	01/07/04	0.41	02/16/04	0.048
Tetrachloroethene	ug/Kg	08/25/04	0.61	01/07/04	0.58	02/16/04	0.085
Dibromochloromethane	ug/Kg	08/25/04	0.50	01/07/04	0.40	02/16/04	0.073
1,2-Dibromoethane	ug/Kg	08/25/04	0.42	01/07/04	0.35	02/16/04	0.10
1,1,1,2-Tetrachloroethane	ug/Kg	08/25/04	0.58	01/07/04	0.67	02/16/04	0.11
Ethylbenzene	ug/Kg	08/25/04	0.42	01/07/04	0.49	02/16/04	0.065
m,p-Xylenes	ug/Kg	08/25/04	1.2	01/07/04	1.3	02/16/04	0.18
o-Xylene	ug/Kg	08/25/04	0.33	01/07/04	0.77	02/16/04	0.092
Styrene	ug/Kg	08/25/04	0.34	01/07/04	0.46	02/16/04	0.057
Bromoform	ug/Kg	08/25/04	0.82	01/07/04	0.38	02/16/04	0.18
Isopropylbenzene	ug/Kg	08/25/04	0.71	01/07/04	0.58	02/16/04	0.098
1,1,2,2-Tetrachloroethane	ug/Kg	08/25/04	0.95	01/07/04	0.48	02/16/04	0.082
1,2,3-Trichloropropane	ug/Kg	08/25/04	1.5	01/07/04	0.91	02/16/04	0.18

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
Propylbenzene	ug/Kg	08/25/04	0.65	01/07/04	0.53	02/16/04	0.078
Bromobenzene	ug/Kg	08/25/04	0.85	01/07/04	0.37	02/16/04	0.18
1,3,5-Trimethylbenzene	ug/Kg	08/25/04	0.74	01/07/04	1.2	02/16/04	0.069
2-Chlorotoluene	ug/Kg	08/25/04	0.58	01/07/04	0.60	02/16/04	0.089
4-Chlorotoluene	ug/Kg	08/25/04	0.59	01/07/04	0.62	02/16/04	0.099
tert-Butylbenzene	ug/Kg	08/25/04	0.50	01/07/04	0.56	02/16/04	0.069
1,2,4-Trimethylbenzene	ug/Kg	08/25/04	0.79	01/07/04	1.8	02/16/04	0.069
sec-Butylbenzene	ug/Kg	08/25/04	0.70	01/07/04	0.83	02/16/04	0.073
para-Isopropyl Toluene	ug/Kg	08/25/04	0.68	01/07/04	1.2	02/16/04	0.12
1,3-Dichlorobenzene	ug/Kg	08/25/04	0.63	01/07/04	0.32	02/16/04	0.13
1,4-Dichlorobenzene	ug/Kg	08/25/04	0.56	01/07/04	0.57	02/16/04	0.12
n-Butylbenzene	ug/Kg	08/25/04	0.85	01/07/04	2.2	02/16/04	0.11
1,2-Dichlorobenzene	ug/Kg	08/25/04	0.40	01/07/04	0.49	02/16/04	0.11
1,2-Dibromo-3-Chloropropane	ug/Kg	08/31/04	1.5	01/07/04	0.57	02/13/04	0.56
1,2,4-Trichlorobenzene	ug/Kg	08/25/04	0.84	01/07/04	2.7	02/16/04	0.23
Hexachlorobutadiene	ug/Kg	08/25/04	1.1	01/07/04	0.89	02/16/04	0.081
Naphthalene	ug/Kg	08/25/04	0.76	01/07/04	2.5	02/16/04	0.15
1,2,3-Trichlorobenzene	ug/Kg	08/25/04	0.60	01/07/04	2.5	02/16/04	0.16
tert-Butyl Alcohol (TBA)	ug/Kg	08/25/04	13	12/22/03	10	05/13/03	6.2
Isopropyl Ether (DIPE)	ug/Kg	08/25/04	0.48	12/22/03	0.65	05/13/03	0.54
Ethyl tert-Butyl Ether (ETBE)	ug/Kg	08/25/04	0.20	12/22/03	0.79	05/13/03	0.50
Methyl tert-Amyl Ether (TAME)	ug/Kg	08/25/04	0.48	12/22/03	0.68	05/13/03	0.15
Isopropanol	ug/Kg	08/25/04	22	12/22/03	9.3	05/13/03	9.3
Ethanol	ug/Kg	08/25/04	84	12/22/03	72	05/13/03	78
Cyclohexanone	ug/Kg	08/25/04	2.0			05/13/03	6.1
Tetrahydrofuran	ug/Kg	08/25/04	1.2				
Dibromofluoromethane	ug/Kg	08/25/04	2.4	08/08/03	3.0		
1,2-Dichloroethane-d4	ug/Kg	08/25/04	2.7	08/08/03	2.9		
Toluene-d8	ug/Kg	08/25/04	2.4	08/08/03	2.2		
Bromofluorobenzene	ug/Kg	08/25/04	4.2	08/08/03	2.3		
Trifluorotoluene	ug/Kg	08/25/04	0.41				

SEMI-VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX116[0.5]	Batch#:	93906
Lab ID:	174074-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	380
Phenol	ND	380
bis(2-Chloroethyl)ether	ND	380
2-Chlorophenol	ND	380
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
Benzyl alcohol	ND	380
1,2-Dichlorobenzene	ND	380
2-Methylphenol	ND	380
bis(2-Chloroisopropyl) ether	ND	380
4-Methylphenol	ND	380
N-Nitroso-di-n-propylamine	ND	380
Hexachloroethane	ND	380
Nitrobenzene	ND	380
Isophorone	ND	380
2-Nitrophenol	ND	760
2,4-Dimethylphenol	ND	380
Benzoic acid	ND	1,900
bis(2-Chloroethoxy)methane	ND	380
2,4-Dichlorophenol	ND	380
1,2,4-Trichlorobenzene	ND	380
Naphthalene	ND	380
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	380
4-Chloro-3-methylphenol	ND	380
2-Methylnaphthalene	ND	380
Hexachlorocyclopentadiene	ND	1,900
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	760
Dimethylphthalate	ND	380
Acenaphthylene	ND	380
2,6-Dinitrotoluene	ND	380
3-Nitroaniline	ND	760
Acenaphthene	ND	760
2,4-Dinitrophenol	ND	1,900
4-Nitrophenol	ND	760
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	380
Diethylphthalate	ND	380
Fluorene	ND	380
4-Chlorophenyl-phenylether	ND	380
4-Nitroaniline	ND	760
4,6-Dinitro-2-methylphenol	ND	1,900
N-Nitrosodiphenylamine	ND	380
Azobenzene	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	380
Pentachlorophenol	ND	760
Phenanthrene	1,500	380

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX116[0.5]	Batch#:	93906
Lab ID:	174074-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Analyte	Result	RL
Anthracene	ND	380
Di-n-butylphthalate	ND	380
Fluoranthene	1,600	380
Pyrene	1,500	380
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	760
Benzo(a)anthracene	580	76
Chrysene	790	380
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	450	76
Benzo(k)fluoranthene	690	76
Benzo(a)pyrene	620	76
Indeno(1,2,3-cd)pyrene	300	76
Dibenz(a,h)anthracene	27 J	76
Benzo(g,h,i)perylene	ND	380

Surrogate	%REC	Limits
2-Fluorophenol	80	25-121
Phenol-d5	76	24-113
2,4,6-Tribromophenol	73	19-122
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	84	30-115
Terphenyl-d14	70	18-137

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261832	Batch#:	93906
Matrix:	Soil	Prepared:	08/19/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,600
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	1,600
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	660
2,4-Dinitrophenol	ND	1,600
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	330
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	1,600
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261832	Batch#:	93906
Matrix:	Soil	Prepared:	08/19/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Analyte	Result	RL
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	330

Surrogate	%REC	Limits
2-Fluorophenol	69	25-121
Phenol-d5	70	24-113
2,4,6-Tribromophenol	56	19-122
Nitrobenzene-d5	79	23-120
2-Fluorobiphenyl	73	30-115
Terphenyl-d14	58	18-137

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC261833	Batch#:	93906
Matrix:	Soil	Prepared:	08/19/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,338	2,611	78	40-119
2-Chlorophenol	3,338	2,499	75	39-119
1,4-Dichlorobenzene	1,669	1,270	76	36-111
N-Nitroso-di-n-propylamine	1,669	1,415	85	35-117
1,2,4-Trichlorobenzene	1,669	1,355	81	36-107
4-Chloro-3-methylphenol	3,338	2,628	79	41-122
Acenaphthene	1,669	1,251	75	36-111
4-Nitrophenol	3,338	2,375	71	45-130
2,4-Dinitrotoluene	1,669	1,219	73	43-114
Pentachlorophenol	3,338	2,120	64	39-119
Pyrene	1,669	1,289	77	35-142

Surrogate	%REC	Limits
2-Fluorophenol	76	25-121
Phenol-d5	75	24-113
2,4,6-Tribromophenol	73	19-122
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	80	30-115
Terphenyl-d14	70	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX116[0.5]	Batch#:	93906
MSS Lab ID:	174074-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/20/04
Diln Fac:	1.000		

Type: MS Moisture: 12%
Lab ID: QC261834

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<26.14	3,826	2,877	75	26-100
2-Chlorophenol	<28.41	3,826	2,919	76	25-102
1,4-Dichlorobenzene	<23.86	1,913	1,414	74	28-104
N-Nitroso-di-n-propylamine	<23.86	1,913	1,576	82	41-126
1,2,4-Trichlorobenzene	<27.27	1,913	1,551	81	38-107
4-Chloro-3-methylphenol	<30.68	3,826	2,995	78	26-103
Acenaphthene	47.18	1,913	1,495	76	31-137
4-Nitrophenol	<44.32	3,826	3,043	80	11-114
2,4-Dinitrotoluene	<31.82	1,913	1,414	74	28-100
Pentachlorophenol	<50.00	3,826	2,273	59	17-109
Pyrene	1,460	1,913	1,992	28 *	35-142

Surrogate	%REC	Limits
2-Fluorophenol	78	25-121
Phenol-d5	77	24-113
2,4,6-Tribromophenol	71	19-122
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	79	30-115
Terphenyl-d14	70	18-137

Type: MSD Moisture: 12%
Lab ID: QC261835

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,787	2,743	72	26-100	4	35
2-Chlorophenol	3,787	2,630	69	25-102	9	50
1,4-Dichlorobenzene	1,893	1,319	70	28-104	6	27
N-Nitroso-di-n-propylamine	1,893	1,494	79	41-126	4	38
1,2,4-Trichlorobenzene	1,893	1,396	74	38-107	9	23
4-Chloro-3-methylphenol	3,787	2,767	73	26-103	7	33
Acenaphthene	1,893	1,327	68	31-137	11	19
4-Nitrophenol	3,787	2,673	71	11-114	12	50
2,4-Dinitrotoluene	1,893	1,261	67	28-100	10	47
Pentachlorophenol	3,787	2,120	56	17-109	6	48
Pyrene	1,893	1,626	9 *	35-142	20	36

Surrogate	%REC	Limits
2-Fluorophenol	71	25-121
Phenol-d5	70	24-113
2,4,6-Tribromophenol	65	19-122
Nitrobenzene-d5	79	23-120
2-Fluorobiphenyl	72	30-115
Terphenyl-d14	63	18-137

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC05.D

Date : 12-JUL-2004 13:46

Client ID: dftpp tune std

Instrument: MSBNA05.i

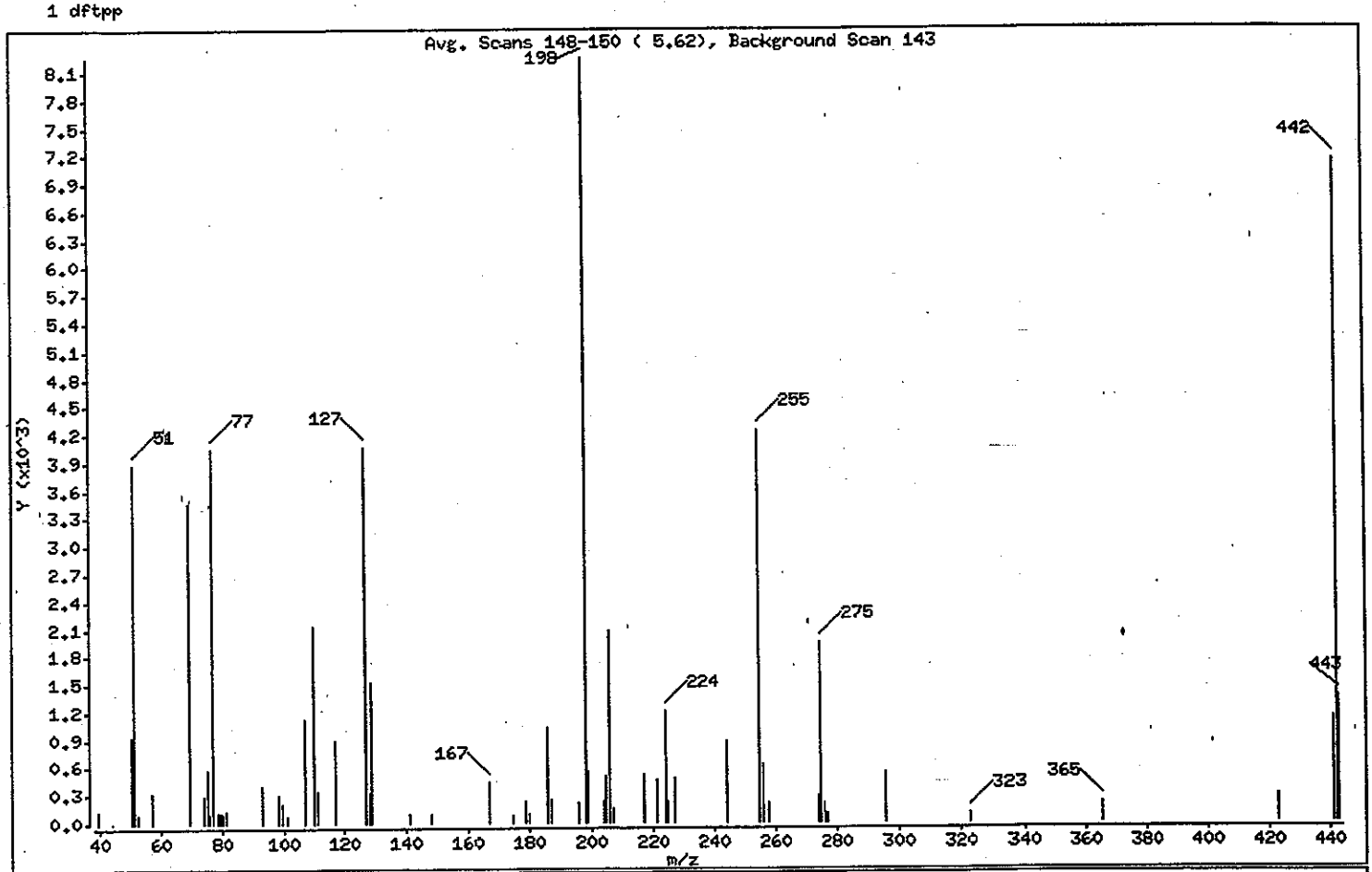
Sample Info: TUN,04WS1200

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.95
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.90
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.32
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	23.47
365	Greater than 1.00% of mass 198	2.44
441	Present, but less than mass 443	13.66
442	40.00 - 99.99% of mass 198	86.45
443	17.00 - 23.00% of mass 442	16.30 (18.85)

8270 GCAL

7/13/04

mus 7/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\081904.b\XHJ01.D

Date : 19-AUG-2004 18:13

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

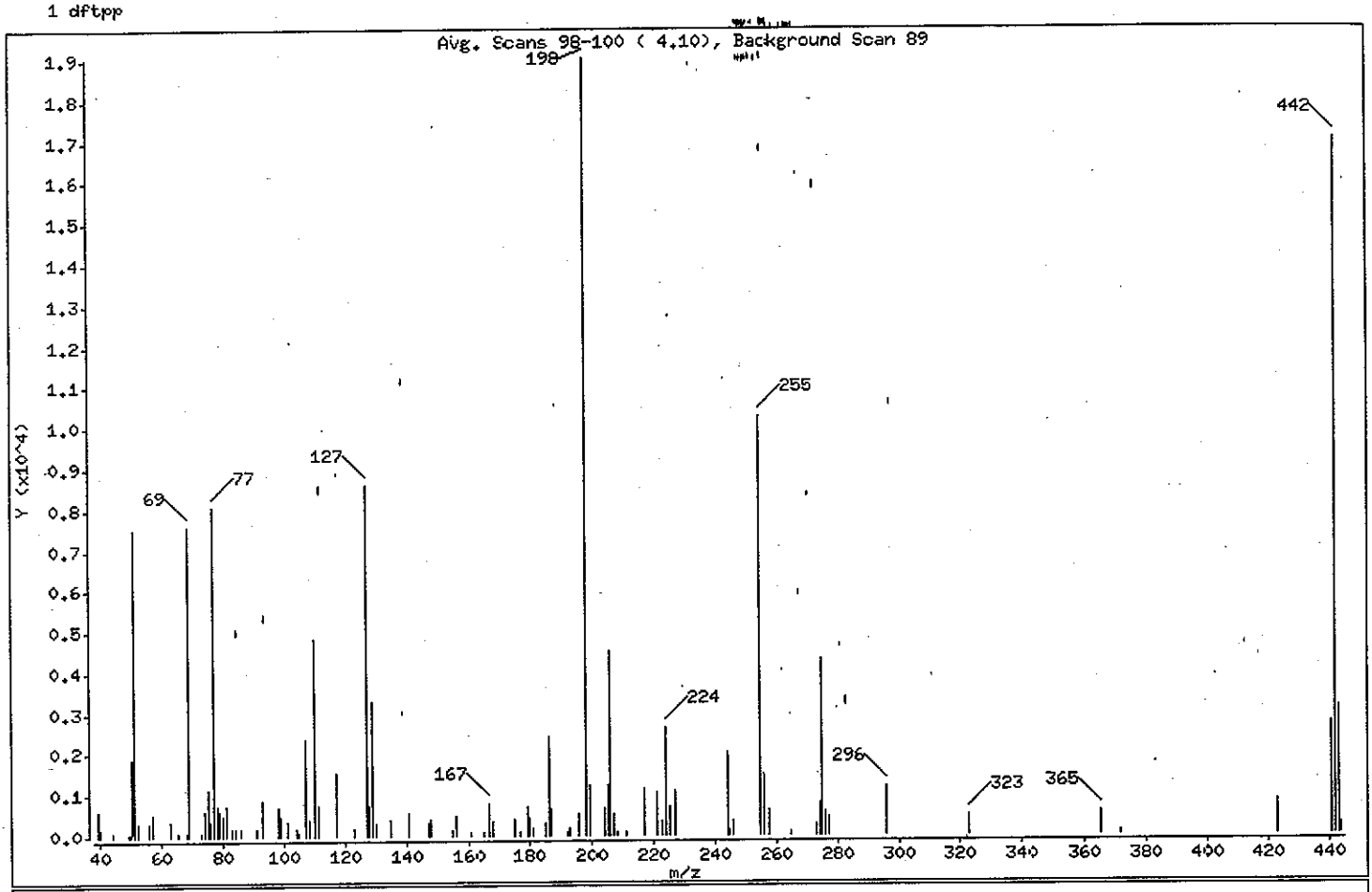
Instrument: MSBNA05.i

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.29
68	Less than 1.99% of mass 69	0.50 (1.25)
69	Mass 69 relative abundance	39.85
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.19
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.54
275	10.00 - 30.00% of mass 198	22.50
365	Greater than 1.00% of mass 198	2.88
441	Present, but less than mass 443	14.31
442	40.00 - 99.99% of mass 198	89.42
443	17.00 - 23.00% of mass 442	16.31 (18.24)

8/19/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544280054001 Name: 6PTBNA5 Type: (normal) Date: 12-JUL-2004 15:39 Inj Vol (uL): 1

see quant reports for manual integrations due to misidentification & tailing

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	xgc07	544280054007	2ug/ml ICAL	12-JUL-2004 15:39	04WS1164
2	xgc08	544280054008	10ug/ml ICAL	12-JUL-2004 16:17	04WS1165
3	xgc09	544280054009	20ug/ml ICAL	12-JUL-2004 16:55	04WS1166
4	xgc10	544280054010	50ug/ml ICAL	12-JUL-2004 17:33	04WS1167
5	xgc11	544280054011	80ug/ml ICAL	12-JUL-2004 18:12	04WS1168
6	xgc12	544280054012	120ug/ml ICAL	12-JUL-2004 18:50	04WS1169
7	xgc13	544280054013	160ug/ml ICAL	12-JUL-2004 19:28	04WS1170

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.5324m	0.5181m	0.5301m	0.5232m	0.5016m	0.4946m	AVRG	R		1.935492		ng	0.5167	3	0.0500	0.99	15	
Pyridine		1.3703m	1.4137m	1.4983m	1.5158m	1.5029m	1.5155m	AVRG	R		0.680547		ng	1.4694	4	0.0500	0.99	15	
Phenol		1.7822	1.7937	1.9359	2.0041	1.9501	1.9571	AVRG	R		0.525254		ng	1.9038	5	0.0500	0.99	15	
Aniline		0.6757	0.7335	0.7404	0.7649	0.7188	0.7257	AVRG	R		1.376473		ng	0.7265	4	0.0500	0.99	15	
bis(2-Chloroethyl)ether		1.2378	1.2077	1.2803	1.3210	1.2621	1.2160	AVRG	R		0.797355		ng	1.2541	3	0.0500	0.99	15	
2-Chlorophenol		1.3772	1.3490	1.4153	1.4645	1.4484	1.4658	AVRG	R		0.704208		ng	1.4200	3	0.0500	0.99	15	
1,3-Dichlorobenzene		1.5819	1.5410	1.5854	1.6238	1.6208	1.5881	AVRG	R		0.628867		ng	1.5902	2	0.0500	0.99	15	
1,4-Dichlorobenzene		1.6095	1.5606	1.6279	1.6492	1.6000	1.5527	AVRG	R		0.625005		ng	1.6000	2	0.0500	0.99	15	
Benzyl alcohol		0.8071	0.8101	0.9404	0.9852	0.9580	0.9714	AVRG	R		1.096456		ng	0.9120	9	0.0500	0.99	15	
1,2-Dichlorobenzene		1.4704	1.4366	1.4968	1.5117	1.4257	1.3969	AVRG	R		0.686651		ng	1.4563	3	0.0500	0.99	15	
2-Methylphenol		1.0229	1.0303	1.1276	1.1202	1.0600	1.0185	AVRG	R		0.940516		ng	1.0632	5	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		1.9687	1.9067	2.0587	2.0850	1.9334	1.8125	AVRG	R		0.509984		ng	1.9608	5	0.0500	0.99	15	
4-Methylphenol		1.5401	1.4996	1.6806	1.7424	1.7078	1.7093	AVRG	R		0.607301		ng	1.6466	6	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.7388	0.7551	0.8758	0.8840	0.8490	0.8572	AVRG	R		1.209748		ng	0.8266	8	0.0500	0.99	15	
Hexachloroethane		0.6026	0.5874	0.6090	0.6144	0.5923	0.5719	AVRG	R		1.677108		ng	0.5963	3	0.0500	0.99	15	
Nitrobenzene		0.3922	0.3858	0.3924	0.3950	0.3892	0.3765	AVRG	R		2.573772		ng	0.3885	2	0.0500	0.99	15	
Isophorone		0.7039	0.7315	0.7759	0.7782	0.7829	0.7841	AVRG	R		1.316797		ng	0.7594	4	0.0500	0.99	15	
2-Nitrophenol		0.1980	0.1935	0.2021	0.2060	0.2065	0.2004	AVRG	R		4.973157		ng	0.2011	2	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL: OK except Benzoic fails → NO
ICV: OK except 4-Nitroaniline ↓; Carbazole ↓; Benzoic ↓
- Benzoic Acid ↑ fails warning limits

7/13/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544280054001 Name: 6PTBNA5 Type: (normal) Date: 12-JUL-2004 15:39 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2894	0.2848	0.2982	0.3117	0.3051	0.2985	AVRG	R		3.356237		ng	0.2980	3	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4614	0.4558	0.4916	0.4906	0.4813	0.4721	AVRG	R		2.103137		ng	0.4755	3	0.0500	0.99	15	
Benzoic acid		0.1270	0.1548	0.1974	0.2127	0.2438	0.2384	QUAD	R	6.271879	4.363157	-0.01036	ng	0.1957	0.997	0.0500	0.99	15	
2,4-Dichlorophenol		0.3136	0.3165	0.3370	0.3378	0.3330	0.3329	AVRG	R		3.044440		ng	0.3285	3	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3358	0.3318	0.3405	0.3486	0.3469	0.3446	AVRG	R		2.929224		ng	0.3414	2	0.0500	0.99	15	
Naphthalene	1.1266	1.1269	1.1111	1.1579	1.1653	1.1183	1.0481	AVRG	R		0.891240		ng	1.1220	3	0.0500	0.99	15	
4-Chloroaniline		0.4149	0.4363	0.4536	0.4601	0.4543	0.4500	AVRG	R		2.247773		ng	0.4449	4	0.0500	0.99	15	
Hexachlorobutadiene		0.1969	0.1956	0.1989	0.2011	0.1992	0.1887	AVRG	R		5.083046		ng	0.1967	2	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.3115	0.3197	0.3395	0.3406	0.3398	0.3338	AVRG	R		3.022791		ng	0.3308	4	0.0500	0.99	15	
2-Methylnaphthalene	0.7177	0.7400	0.7425	0.8069	0.7886	0.7675	0.7209	AVRG	R		1.324697		ng	0.7549	4	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2617	0.2542	0.2773	0.2950	0.2852	0.2887	AVRG	R		3.609840		ng	0.2770	6	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3883	0.3801	0.3991	0.4164	0.4179	0.4355	AVRG	R		2.461761		ng	0.4062	5	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3972	0.3910	0.4118	0.4362	0.4329	0.4303	AVRG	R		2.400547		ng	0.4166	5	0.0500	0.99	15	
2-Chloronaphthalene		1.1678	1.1321	1.1415	1.1792	1.1617	1.1254	AVRG	R		0.868594		ng	1.1513	2	0.0500	0.99	15	
2-Nitroaniline		0.4010	0.3995	0.4072	0.4035	0.3812	0.3718	AVRG	R		2.537909		ng	0.3940	4	0.0500	0.99	15	
Dimethylphthalate		1.4465	1.4613	1.5330	1.5491	1.4779	1.4699	AVRG	R		0.671308		ng	1.4896	3	0.0500	0.99	15	
2,6-Dinitrotoluene		0.3079	0.3103	0.3333	0.3393	0.3296	0.3273	AVRG	R		3.080559		ng	0.3246	4	0.0500	0.99	15	
Acenaphthylene	1.8763	1.9405	1.8972	1.9531	1.9696	1.8686	1.8499	AVRG	R		0.524139		ng	1.9079	2	0.0500	0.99	15	
3-Nitroaniline		0.3167	0.3176	0.3505	0.3635	0.3530	0.3542	AVRG	R		2.918883		ng	0.3426	6	0.0500	0.99	15	
Acenaphthene	1.1326	1.1892	1.1378	1.2240	1.2343	1.1061	1.0458	AVRG	R		0.867436		ng	1.1528	6	0.0500	0.99	15	
2,4-Dinitrophenol		0.1241	0.1492	0.1794	0.1912	0.1960	0.2012	QUAD	R	4.241516	5.128575	-0.00906	ng	0.1735	1.000	0.0500	0.99	15	
4-Nitrophenol		0.1643	0.1667	0.1616	0.1558	0.1452	0.1405	AVRG	R		6.423810		ng	0.1557	7	0.0500	0.99	15	
Dibenzofuran		1.7185	1.6716	1.8070	1.8409	1.7253	1.6447	AVRG	R		0.576482		ng	1.7347	4	0.0500	0.99	15	
2,4-Dinitrotoluene		0.4265	0.4267	0.4414	0.4411	0.4194	0.4201	AVRG	R		2.329917		ng	0.4292	2	0.0500	0.99	15	
Diethylphthalate		1.4902	1.4357	1.4519	1.4273	1.3492	1.2458	AVRG	R		0.714270		ng	1.4000	6	0.0500	0.99	15	
Fluorene	1.3786	1.4377	1.4276	1.5097	1.5306	1.4317	1.3925	AVRG	R		0.692499		ng	1.4440	4	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6512	0.6526	0.7072	0.7349	0.6911	0.6787	AVRG	R		1.457829		ng	0.6860	5	0.0500	0.99	15	
4-Nitroaniline		0.2893	0.2757	0.2912	0.3138	0.3116	0.2960	AVRG	R		3.375553		ng	0.2962	5	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1064	0.1160	0.1369	0.1435	0.1414	0.1373	AVRG	R		7.677543		ng	0.1303	12	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.5129	0.5059	0.5598	0.5637	0.5548	0.5475	AVRG	R		1.849216		ng	0.5408	5	0.0500	0.99	15	
Azobenzene		0.8088	0.7890	0.8230	0.8841	0.8136	0.7351	AVRG	R		1.236204		ng	0.8089	6	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544280054001 Name: 6PTBNA5 Type: (normal) Date: 12-JUL-2004 15:39 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2151	0.2178	0.2421	0.2564	0.2591	0.2530	AVRG	R		4.156755		ng	0.2406	8	0.0500	0.99	15	
Hexachlorobenzene		0.2508	0.2523	0.2824	0.2923	0.2855	0.2835	AVRG	R-		3.643107		ng	0.2745	7	0.0500	0.99	15	
Pentachlorophenol		0.1481	0.1540	0.1740	0.1819	0.1857	0.1925	AVRG	R -		5.790663		ng	0.1727	10	0.0500	0.99	15	
Phenanthrene	1.1505	1.1677	1.1237	1.1983	1.2094	1.1648	1.1401	AVRG	R		0.858430		ng	1.1649	3	0.0500	0.99	15	
Anthracene	1.1739	1.1702	1.1342	1.1831	1.2193	1.1265	1.0832	AVRG	R		0.865245		ng	1.1557	4	0.0500	0.99	15	
Carbazole		0.8099	0.7727	0.8720	0.9766	1.0088	1.0352	AVRG	R		1.095835		ng	0.9125	12	0.0500	0.99	15	
Di-n-butylphthalate		1.5443	1.4670	1.5181	1.4402	1.3464	1.3601	AVRG	R		0.691549		ng	1.4460	6	0.0500	0.99	15	
Fluoranthene	1.4020	1.3829	1.3215	1.3725	1.3855	1.3588	1.3498	AVRG	R		0.731226		ng	1.3676	2	0.0500	0.99	15	
Benzidine		0.0068m	0.0691	0.0401	0.0723	0.0448	0.0339	AVRG	R		22.47407		ng	0.0445	54	0.0500	0.99	15	irf rsd ***
Pyrene	1.4442	1.4786	1.4323	1.5039	1.4944	1.4650	1.4301	AVRG	R		0.683020		ng	1.4641	2	0.0500	0.99	15	
Butylbenzylphthalate		0.6730	0.6643	0.7055	0.7203	0.6904	0.6787	AVRG	R		1.452015		ng	0.6887	3	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3711	0.3662	0.4494	0.4895	0.4885	0.4902	AVRG	R		2.259966		ng	0.4425	13	0.0500	0.99	15	
Benzo(a)anthracene	1.3259	1.3487	1.3071	1.3848	1.4136	1.4105	1.4298	AVRG	R		0.727621		ng	1.3743	3	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.9892	0.9831	1.0372	1.0374	1.0076	0.9627	AVRG	R		0.997119		ng	1.0029	3	0.0500	0.99	15	
Chrysene	1.2310	1.2400	1.2039	1.2943	1.3404	1.3241	1.3104	AVRG	R		0.782644		ng	1.2777	4	0.0500	0.99	15	
Di-n-octylphthalate		1.8937	1.8929	2.0811	2.1505	2.2279	2.3182	AVRG	R		0.477546		ng	2.0940	8	0.0500	0.99	15	
Benzo(b)fluoranthene	1.3226m	1.4989m	1.5055m	1.6972	2.0639	2.2609	2.3982	QUAD	R	3.129785	0.524272	-0.00031	ng	1.8210	0.998	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3899	1.4691	1.4196	1.5346	1.2707	1.1840	1.1170	AVRG	R		0.745879		ng	1.3407	11	0.0500	0.99	15	
Benzo(a)pyrene	1.1796	1.2810	1.2736	1.3645	1.3925	1.4065	1.4279	AVRG	R		0.750627		ng	1.3322	7	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.4168	1.5756	1.5557	1.5096	1.4637	1.3515	1.2431	AVRG	R		0.691973		ng	1.4451	8	0.0500	0.99	15	
Dibenz(a,h)anthracene	1.0661	1.2194	1.2278	1.2343	1.2131	1.1447	1.0642	AVRG	R		0.856832		ng	1.1671	6	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.1873	1.3025	1.2674	1.1504	1.0939	0.9508	0.8587	AVRG	R		0.896176		ng	1.1159	15	0.0500	0.99	15	
2-Fluorophenol		1.2834	1.2787	1.3409	1.3642	1.3549	1.3668	AVRG	R		0.751046		ng	1.3315	3	0.0500	0.99	15	
Phenol-d5		1.7206	1.7197	1.8815	1.9519	1.9175	1.9150	AVRG	R		0.540240		ng	1.8510	6	0.0500	0.99	15	
Nitrobenzene-d5		0.3991	0.3961	0.4047	0.4084	0.4033	0.3948	AVRG	R		2.493453		ng	0.4011	1	0.0500	0.99	15	
2-Fluorobiphenyl		1.3120	1.2797	1.3045	1.3083	1.2424	1.2137	AVRG	R		0.783226		ng	1.2768	3	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2155	0.2235	0.2496	0.2636	0.2624	0.2634	AVRG	R		4.059244		ng	0.2464	9	0.0500	0.99	15	
Terphenyl-d14		1.0630	1.0355	1.1167	1.1352	1.1063	1.0596	AVRG	R		0.920770		ng	1.0860	4	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC07.D
Report Date: 13-Jul-2004 09:28

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 12-JUL-2004 15:39 MS Autotune Date: 12-JUL-2004 12:59
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1164
Misc Info : 2ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\6PTBNA5.m
Meth Date : 13-Jul-2004 09:28 target Quant Type: ISTD
Cal Date : 12-JUL-2004 15:39 Cal File: XGC07.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
$ 3 2-Fluorophenol	112	5.813	5.814	(0.806)	16428	2.00000	1.8947
$ 4 Phenol-d5	99	6.745	6.755	(0.935)	22084	2.00000	1.8321
5 Phenol	94	6.755	6.776	(0.937)	22927	2.00000	1.8493
6 Aniline	66	6.869	6.880	(0.953)	8536	2.00000	1.8043
7 bis(2-Chloroethyl)ether	63	6.889	6.900	(0.956)	15867	2.00000	1.9428
8 2-Chlorophenol	128	6.993	7.004	(0.970)	17410	2.00000	1.8827
9 1,3-Dichlorobenzene	146	7.169	7.180	(0.994)	20370	2.00000	1.9671
* 10 1,4-Dichlorobenzene-d4	152	7.210	7.211	(1.000)	260472	40.0000	
11 1,4-Dichlorobenzene	146	7.221	7.232	(1.001)	20738	2.00000	1.9904
12 Benzyl alcohol	108	7.335	7.356	(1.017)	9418	2.00000	1.5858
13 1,2-Dichlorobenzene	146	7.448	7.449	(1.033)	18808	2.00000	1.9832
14 2-Methylphenol	107	7.438	7.459	(1.032)	12881	2.00000	1.8604
15 bis(2-Chloroisopropyl) ether	45	7.500	7.511	(1.040)	24766	2.00000	1.9395
16 4-Methylphenol	107	7.593	7.615	(1.053)	18620	2.00000	1.7365
18 Hexachloroethane	117	7.811	7.811	(1.083)	7293	2.00000	1.8783
$ 19 Nitrobenzene-d5	82	7.873	7.884	(0.902)	17190	2.00000	1.9410
20 Nitrobenzene	77	7.893	7.915	(0.904)	16921	2.00000	1.9722
21 Isophorone	82	8.142	8.163	(0.932)	26925	2.00000	1.6056
22 2,4-Dimethylphenol	122	8.276	8.256	(0.948)	4442	2.00000	0.6751
23 2-Nitrophenol	139	8.276	8.287	(0.948)	7295	2.00000	1.6429

Trib pk not used
mw 7/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC07.D
Report Date: 13-Jul-2004 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	25 Benzoic acid	122	8.276	8.401	(0.948)	4442	2.00000	7.1491
	26 2,4-Dichlorophenol	162	8.535	8.545	(0.977)	13357	2.00000	1.8415
	27 1,2,4-Trichlorobenzene	180	8.659	8.670	(0.992)	14809	2.00000	1.9644
*	28 Naphthalene-d8	136	8.732	8.743	(1.000)	883270	40.0000	
	29 Naphthalene	128	8.753	8.763	(1.002)	49753	2.00000	2.0080
	30 4-Chloroaniline	127	8.804	8.815	(1.008)	17481	2.00000	1.7794
	31 Hexachlorobutadiene	225	8.928	8.939	(1.023)	8887	2.00000	2.0457
	32 4-Chloro-3-methylphenol	107	9.332	9.343	(1.069)	12415	2.00000	1.6995
	33 2-Methylnaphthalene	142	9.581	9.591	(1.097)	31698	2.00000	1.9015
	34 Hexachlorocyclopentadiene	237	9.850	9.861	(0.901)	5745	2.00000	1.6482
	35 2,4,6-Trichlorophenol	196	9.943	9.954	(0.910)	9044	2.00000	1.7695
	36 2,4,5-Trichlorophenol	196	9.995	10.005	(0.915)	9317	2.00000	1.7776
$	37 2-Fluorobiphenyl	172	10.036	10.047	(0.919)	32329	2.00000	2.0124
	38 2-Chloronaphthalene	162	10.202	10.212	(0.934)	28744	2.00000	1.9843
	39 2-Nitroaniline	65	10.346	10.357	(0.947)	8631	2.00000	1.7409
	40 Dimethylphthalate	163	10.553	10.575	(0.966)	33483	2.00000	1.7864
	41 2,6-Dinitrotoluene	165	10.667	10.689	(0.976)	6475	2.00000	1.5853
	42 Acenaphthylene	152	10.740	10.751	(0.983)	47215	2.00000	1.9668
	43 3-Nitroaniline	138	10.854	10.885	(0.993)	7730	2.00000	1.7932
*	44 Acenaphthene-d10	164	10.926	10.937	(1.000)	503277	40.0000	
	45 Acenaphthene	154	10.967	10.978	(1.004)	28500	2.00000	1.9648
	47 4-Nitrophenol	109	10.988	11.030	(1.006)	3401	2.00000	1.7364
	48 Dibenzofuran	168	11.154	11.175	(1.021)	41949	2.00000	1.9220
	49 2,4-Dinitrotoluene	165	11.164	11.185	(1.022)	8644	2.00000	1.6006
	50 Diethylphthalate	149	11.413	11.434	(1.045)	33705	2.00000	1.9134
	51 4-Chlorophenyl-phenylether	204	11.547	11.558	(1.057)	15988	2.00000	1.8524
	52 Fluorene	166	11.588	11.610	(1.061)	34690	2.00000	1.9093
	53 4-Nitroaniline	138	11.630	11.672	(1.064)	6167	2.00000	1.6545
	54 4,6-Dinitro-2-methylphenol	198	11.671	11.713	(0.913)	3068	2.00000	1.0459
	55 N-Nitrosodiphenylamine	169	11.692	11.724	(0.914)	23571	2.00000	1.9355
	56 Azobenzene	77	11.744	11.765	(0.918)	36606	2.00000	2.0094
$	57 2,4,6-Tribromophenol	330	11.920	11.941	(1.091)	4404	2.00000	1.4208
	58 4-Bromophenyl-phenylether	248	12.158	12.169	(0.951)	9767	2.00000	1.8028
	59 Hexachlorobenzene	284	12.385	12.407	(0.968)	11015	2.00000	1.7819
	60 Pentachlorophenol	266	12.592	12.614	(0.985)	5659	2.00000	1.4551
*	61 Phenanthrene-d10	188	12.789	12.790	(1.000)	900793	40.0000	
	62 Phenanthrene	178	12.810	12.831	(1.002)	51816	2.00000	1.9751
	63 Anthracene	178	12.862	12.883	(1.006)	52870	2.00000	2.0313
	64 Carbazole	167	13.048	13.059	(1.020)	44832	2.00000	2.1815
	65 Di-n-butylphthalate	149	13.420	13.431	(1.049)	71798	2.00000	2.2048
	66 Fluoranthene	202	14.321	14.342	(1.120)	63145	2.00000	2.0503
	68 Pyrene	202	14.642	14.663	(0.873)	65545	2.00000	1.9728
$	69 Terphenyl-d14	244	14.776	14.798	(0.881)	47011	2.00000	1.9075
	70 Butylbenzylphthalate	149	15.511	15.532	(0.925)	27913	2.00000	1.7860
	72 Benzo(a)anthracene	228	16.712	16.754	(0.996)	60175	2.00000	1.9294
*	73 Chrysene-d12	240	16.774	16.795	(1.000)	907690	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	16.577	16.599	(0.988)	42438	2.00000	1.8647
	75 Chrysene	228	16.826	16.867	(1.003)	55867	2.00000	1.9268
	77 Benzo(b)fluoranthene	252	19.569	19.652	(0.938)	53176	2.00000	4.5144(M)
	78 Benzo(k)fluoranthene	252	19.641	19.724	(0.941)	55880	2.00000	2.0733(A)
	79 Benzo(a)pyrene	252	20.635	20.708	(0.989)	47425	2.00000	1.7708
*	80 Perylene-d12	264	20.862	20.894	(1.000)	804112	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	24.123	24.216	(1.156)	56962	2.00000	1.9607
	82 Dibenz(a,h)anthracene	278	24.133	24.237	(1.157)	42863	2.00000	1.8269

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC07.D
Report Date: 13-Jul-2004 09:28

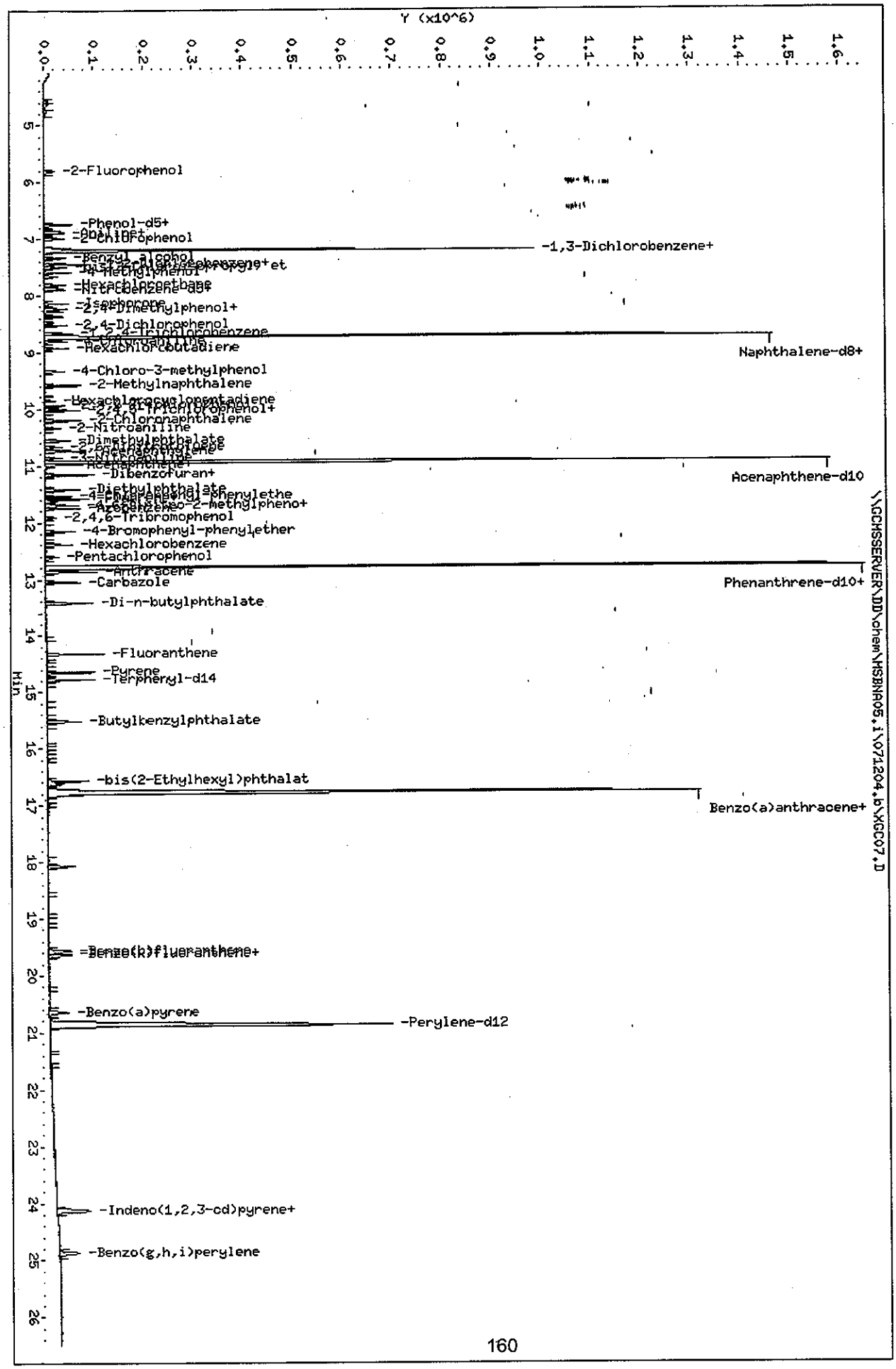
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
83 Benzo(g,h,i)perylene	276	24.868	24.972	(1.192)	47738	2.00000	2.1281

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC07.D
Date : 12-JUL-2004 15:39
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1164
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC08.D
Report Date: 13-Jul-2004 09:28

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 12-JUL-2004 16:17 MS Autotune Date: 12-JUL-2004 12:59
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1165
Misc Info : 10ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\6PTBNA5.m
Meth Date : 13-Jul-2004 09:28 target Quant Type: ISTD
Cal Date : 12-JUL-2004 16:17 Cal File: XGC08.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.592	4.582	(0.637)	88913	10.0000	9.3253(M)
2 N-Nitrosodimethylamine	42	4.571	4.582	(0.634)	34543	10.0000	10.3037(M)
$ 3 2-Fluorophenol	112	5.813	5.814	(0.806)	83275	10.0000	9.6388
$ 4 Phenol-d5	99	6.745	6.755	(0.935)	111647	10.0000	9.2956
5 Phenol	94	6.755	6.776	(0.937)	115638	10.0000	9.3608
6 Aniline	66	6.869	6.880	(0.953)	43843	10.0000	9.3006
7 bis(2-Chloroethyl)ether	63	6.889	6.900	(0.956)	80318	10.0000	9.8698
8 2-Chlorophenol	128	7.003	7.004	(0.971)	89359	10.0000	9.6980
9 1,3-Dichlorobenzene	146	7.169	7.180	(0.994)	102643	10.0000	9.9479
* 10 1,4-Dichlorobenzene-d4	152	7.210	7.211	(1.000)	259547	40.0000	
11 1,4-Dichlorobenzene	146	7.221	7.232	(1.001)	104434	10.0000	10.0593
12 Benzyl alcohol	108	7.335	7.356	(1.017)	52369	10.0000	8.8493
13 1,2-Dichlorobenzene	146	7.448	7.449	(1.033)	95408	10.0000	10.0963
14 2-Methylphenol	107	7.448	7.459	(1.033)	66371	10.0000	9.6203
15 bis(2-Chloroisopropyl) ether	45	7.500	7.511	(1.040)	127742	10.0000	10.0400
16 4-Methylphenol	107	7.604	7.615	(1.055)	99933	10.0000	9.3531
17 N-Nitroso-di-n-propylamine	70	7.666	7.687	(1.063)	47936	10.0000	8.9371
18 Hexachloroethane	117	7.811	7.811	(1.083)	39100	10.0000	10.1060
$ 19 Nitrobenzene-d5	82	7.873	7.884	(0.902)	90942	10.0000	9.9515
20 Nitrobenzene	77	7.893	7.915	(0.904)	89372	10.0000	10.0947

7/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC08.D
Report Date: 13-Jul-2004 09:28

	Compounds	QUANT SIG MASS	RT	EXP'RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.142	8.163	(0.932)	160402	10.0000	9.2694
	22 2,4-Dimethylphenol	122	8.245	8.256	(0.944)	65944	10.0000	9.7129
	23 2-Nitrophenol	139	8.276	8.287	(0.948)	45123	10.0000	9.8481
	24 bis(2-Chloroethoxy)methane	93	8.370	8.380	(0.959)	105132	10.0000	9.7034
	25 Benzoic acid	122	8.307	8.401	(0.951)	28946	10.0000	11.7977
	26 2,4-Dichlorophenol	162	8.535	8.545	(0.977)	71455	10.0000	9.5469
	27 1,2,4-Trichlorobenzene	180	8.659	8.670	(0.992)	76516	10.0000	9.8362
*	28 Naphthalene-d8	136	8.732	8.743	(1.000)	911455	40.0000	
	29 Naphthalene	128	8.753	8.763	(1.002)	256787	10.0000	10.0436
	30 4-Chloroaniline	127	8.804	8.815	(1.008)	94539	10.0000	9.3258
	31 Hexachlorobutadiene	225	8.928	8.939	(1.023)	44856	10.0000	10.0062
	32 4-Chloro-3-methylphenol	107	9.332	9.343	(1.069)	70978	10.0000	9.4157
	33 2-Methylnaphthalene	142	9.591	9.591	(1.098)	168627	10.0000	9.8032
	34 Hexachlorocyclopentadiene	237	9.850	9.861	(0.901)	34322	10.0000	9.4472
	35 2,4,6-Trichlorophenol	196	9.943	9.954	(0.910)	50921	10.0000	9.5584
	36 2,4,5-Trichlorophenol	196	9.995	10.005	(0.915)	52096	10.0000	9.5358
$	37 2-Fluorobiphenyl	172	10.036	10.047	(0.919)	172070	10.0000	10.2763
	38 2-Chloronaphthalene	162	10.202	10.212	(0.934)	153157	10.0000	10.1437
	39 2-Nitroaniline	65	10.346	10.357	(0.947)	52589	10.0000	10.1769
	40 Dimethylphthalate	163	10.553	10.575	(0.966)	189701	10.0000	9.7103
	41 2,6-Dinitrotoluene	165	10.678	10.689	(0.977)	40381	10.0000	9.4853
	42 Acenaphthylene	152	10.740	10.751	(0.983)	254488	10.0000	10.1708
	43 3-Nitroaniline	138	10.864	10.885	(0.994)	41540	10.0000	9.2454
*	44 Acenaphthene-d10	164	10.926	10.937	(1.000)	524584	40.0000	
	45 Acenaphthene	154	10.967	10.978	(1.004)	155963	10.0000	10.3158
	46 2,4-Dinitrophenol	184	10.988	11.009	(1.006)	16269	10.0000	10.5897
	47 4-Nitrophenol	109	10.999	11.030	(1.007)	21542	10.0000	10.5517
	48 Dibenzofuran	168	11.154	11.175	(1.021)	225371	10.0000	9.9066
	49 2,4-Dinitrotoluene	165	11.164	11.185	(1.022)	55939	10.0000	9.9380
	50 Diethylphthalate	149	11.413	11.434	(1.045)	195439	10.0000	10.6443
	51 4-Chlorophenyl-phenylether	204	11.547	11.558	(1.057)	85398	10.0000	9.4929
	52 Fluorene	166	11.588	11.610	(1.061)	188543	10.0000	9.9557
	53 4-Nitroaniline	138	11.640	11.672	(1.065)	37934	10.0000	9.7637
	54 4,6-Dinitro-2-methylphenol	198	11.682	11.713	(0.913)	25986	10.0000	8.1723
	55 N-Nitrosodiphenylamine	169	11.702	11.724	(0.915)	125202	10.0000	9.4838
	56 Azobenzene	77	11.744	11.765	(0.918)	197453	10.0000	9.9986
$	57 2,4,6-Tribromophenol	330	11.920	11.941	(1.091)	28264	10.0000	8.7483
	58 4-Bromophenyl-phenylether	248	12.158	12.169	(0.951)	52501	10.0000	8.9393
	59 Hexachlorobenzene	284	12.385	12.407	(0.968)	61239	10.0000	9.1387
	60 Pentachlorophenol	266	12.592	12.614	(0.985)	36145	10.0000	8.5735
*	61 Phenanthrene-d10	188	12.789	12.790	(1.000)	976504	40.0000	
	62 Phenanthrene	178	12.810	12.831	(1.002)	285057	10.0000	10.0235
	63 Anthracene	178	12.862	12.883	(1.006)	285678	10.0000	10.1251
	64 Carbazole	167	13.048	13.059	(1.020)	197720	10.0000	8.8752
	65 Di-n-butylphthalate	149	13.420	13.431	(1.049)	377004	10.0000	10.6795
	66 Fluoranthene	202	14.321	14.342	(1.120)	337610	10.0000	10.1123
	67 Benzidine	184	14.445	14.456	(0.861)	1589	10.0000	1.5238 (M)
	68 Pyrene	202	14.642	14.663	(0.873)	346511	10.0000	10.0993
$	69 Terphenyl-d14	244	14.776	14.798	(0.881)	249113	10.0000	9.7879
	70 Butylbenzylphthalate	149	15.511	15.532	(0.925)	157712	10.0000	9.7719
	71 3,3'-Dichlorobenzidine	252	16.629	16.661	(0.991)	86967	10.0000	8.3868
	72 Benzo(a)anthracene	228	16.722	16.754	(0.997)	316051	10.0000	9.8130
*	73 Chrysene-d12	240	16.774	16.795	(1.000)	937382	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	16.577	16.599	(0.988)	231811	10.0000	9.8633

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC08.D
Report Date: 13-Jul-2004 09:28

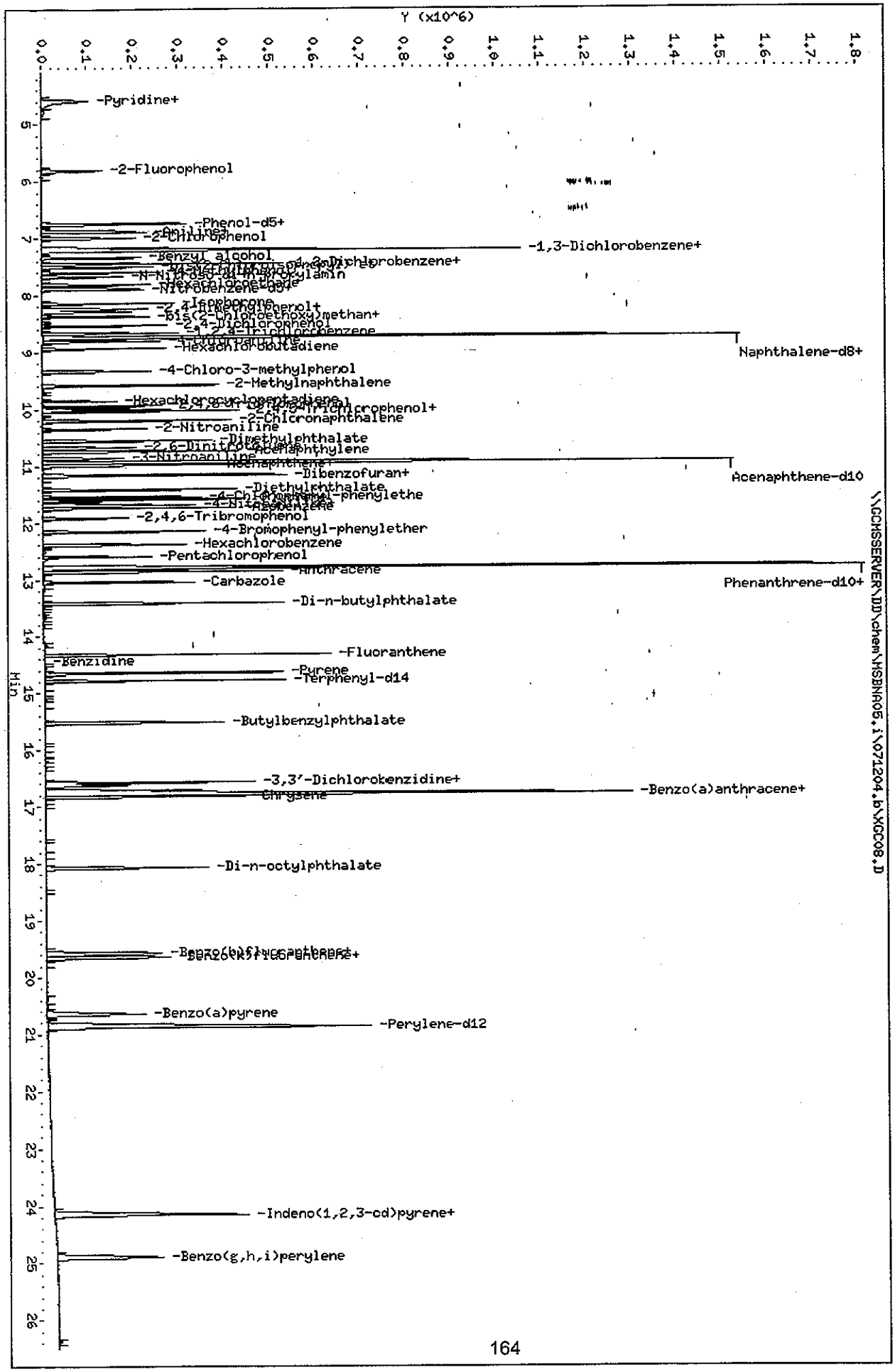
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.826	16.867	(1.003)	290578	10.0000	9.7044
76 Di-n-octylphthalate	149	18.068	18.099	(0.866)	390964	10.0000	9.0430
77 Benzo(b)fluoranthene	252	19.579	19.652	(0.938)	309452	10.0000	10.9182(M)
78 Benzo(k)fluoranthene	252	19.651	19.724	(0.941)	303315	10.0000	10.9579(A)
79 Benzo(a)pyrene	252	20.645	20.708	(0.989)	264477	10.0000	9.6156
* 80 Perylene-d12	264	20.873	20.894	(1.000)	825838	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.133	24.216	(1.156)	325296	10.0000	10.9026
82 Dibenz(a,h)anthracene	278	24.154	24.237	(1.157)	251753	10.0000	10.4480
83 Benzo(g,h,i)perylene	276	24.889	24.972	(1.192)	268910	10.0000	11.6725

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC08.D
Date : 12-JUL-2004 16:17
Client ID: CURTIS&TOHPKINS
Sample Info: ICAL,04WS4163
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC09.D
Report Date: 13-Jul-2004 09:28

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 12-JUL-2004 16:55 MS Autotune Date: 12-JUL-2004 12:59
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1166
Misc Info : 20ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\6PTBNA5.m
Meth Date : 13-Jul-2004 09:28 target Quant Type: ISTD
Cal Date : 12-JUL-2004 16:55 Cal File: XGC09.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.581	4.582	(0.635)	215446	20.0000	19.2421 (M)
2 N-Nitrosodimethylamine	42	4.581	4.582	(0.635)	78956	20.0000	20.0554 (M)
$ 3 2-Fluorophenol	112	5.813	5.814	(0.806)	194868	20.0000	19.2071
$ 4 Phenol-d5	99	6.744	6.755	(0.935)	262075	20.0000	18.5809
5 Phenol	94	6.765	6.776	(0.938)	273358	20.0000	18.8433
6 Aniline	66	6.869	6.880	(0.953)	111775	20.0000	20.1915
7 bis(2-Chloroethyl)ether	63	6.889	6.900	(0.956)	184051	20.0000	19.2595
8 2-Chlorophenol	128	7.003	7.004	(0.971)	205585	20.0000	18.9997
9 1,3-Dichlorobenzene	146	7.169	7.180	(0.994)	234841	20.0000	19.3815
* 10 1,4-Dichlorobenzene-d4	152	7.210	7.211	(1.000)	304792	40.0000	
11 1,4-Dichlorobenzene	146	7.231	7.232	(1.003)	237833	20.0000	19.5079
12 Benzyl alcohol	108	7.345	7.356	(1.019)	123455	20.0000	17.7646
13 1,2-Dichlorobenzene	146	7.448	7.449	(1.033)	218927	20.0000	19.7283
14 2-Methylphenol	107	7.448	7.459	(1.033)	157014	20.0000	19.3803
15 bis(2-Chloroisopropyl) ether	45	7.500	7.511	(1.040)	290576	20.0000	19.4479
16 4-Methylphenol	107	7.604	7.615	(1.055)	228535	20.0000	18.2143
17 N-Nitroso-di-n-propylamine	70	7.676	7.687	(1.065)	115072	20.0000	18.2692
18 Hexachloroethane	117	7.811	7.811	(1.083)	89524	20.0000	19.7041
$ 19 Nitrobenzene-d5	82	7.873	7.884	(0.902)	208521	20.0000	19.7514
20 Nitrobenzene	77	7.904	7.915	(0.905)	203117	20.0000	19.8592

7/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC09.D
Report Date: 13-Jul-2004 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.152	8.163	(0.934)	385134	20.0000	19.2654
	22 2,4-Dimethylphenol	122	8.245	8.256	(0.944)	149936	20.0000	19.1163
	23 2-Nitrophenol	139	8.276	8.287	(0.948)	101894	20.0000	19.2498
	24 bis(2-Chloroethoxy)methane	93	8.369	8.380	(0.959)	239992	20.0000	19.1739
	25 Benzoic acid	122	8.338	8.401	(0.955)	81508	20.0000	19.6822
	26 2,4-Dichlorophenol	162	8.535	8.545	(0.977)	166648	20.0000	19.2732
	27 1,2,4-Trichlorobenzene	180	8.670	8.670	(0.993)	174689	20.0000	19.4386
*	28 Naphthalene-d8	136	8.732	8.743	(1.000)	1052962	40.0000	
	29 Naphthalene	128	8.752	8.763	(1.002)	584980	20.0000	19.8053
	30 4-Chloroaniline	127	8.804	8.815	(1.008)	229719	20.0000	19.6153
	31 Hexachlorobutadiene	225	8.939	8.939	(1.024)	102999	20.0000	19.8886
	32 4-Chloro-3-methylphenol	107	9.342	9.343	(1.070)	168309	20.0000	19.3269
	33 2-Methylnaphthalene	142	9.591	9.591	(1.098)	390902	20.0000	19.6712
	34 Hexachlorocyclopentadiene	237	9.850	9.861	(0.901)	79867	20.0000	18.3542
	35 2,4,6-Trichlorophenol	196	9.953	9.954	(0.910)	119415	20.0000	18.7148
	36 2,4,5-Trichlorophenol	196	9.994	10.005	(0.914)	122829	20.0000	18.7711
$	37 2-Fluorobiphenyl	172	10.036	10.047	(0.918)	402020	20.0000	20.0454
	38 2-Chloronaphthalene	162	10.201	10.212	(0.933)	355663	20.0000	19.6668
	39 2-Nitroaniline	65	10.346	10.357	(0.946)	125521	20.0000	20.2802
	40 Dimethylphthalate	163	10.553	10.575	(0.965)	459076	20.0000	19.6194
	41 2,6-Dinitrotoluene	165	10.678	10.689	(0.976)	97498	20.0000	19.1207
	42 Acenaphthylene	152	10.750	10.751	(0.983)	596029	20.0000	19.8881
	43 3-Nitroaniline	138	10.864	10.885	(0.993)	99781	20.0000	18.5415
*	44 Acenaphthene-d10	164	10.936	10.937	(1.000)	628318	40.0000	
	45 Acenaphthene	154	10.978	10.978	(1.004)	357451	20.0000	19.7394
	46 2,4-Dinitrophenol	184	10.988	11.009	(1.005)	46858	20.0000	19.4598
	47 4-Nitrophenol	109	10.998	11.030	(1.006)	52366	20.0000	21.4152
	48 Dibenzofuran	168	11.164	11.175	(1.021)	525137	20.0000	19.2725
	49 2,4-Dinitrotoluene	165	11.174	11.185	(1.022)	134061	20.0000	19.8848
	50 Diethylphthalate	149	11.423	11.434	(1.044)	451049	20.0000	20.5100
	51 4-Chlorophenyl-phenylether	204	11.547	11.558	(1.056)	205031	20.0000	19.0285
	52 Fluorene	166	11.599	11.610	(1.061)	448486	20.0000	19.7719
	53 4-Nitroaniline	138	11.651	11.672	(1.065)	86616	20.0000	18.6133
	54 4,6-Dinitro-2-methylphenol	198	11.682	11.713	(0.913)	67213	20.0000	17.8177
	55 N-Nitrosodiphenylamine	169	11.702	11.724	(0.915)	293039	20.0000	18.7107
	56 Azobenzene	77	11.744	11.765	(0.918)	457031	20.0000	19.5080
$	57 2,4,6-Tribromophenol	330	11.930	11.941	(1.091)	70228	20.0000	18.1482
	58 4-Bromophenyl-phenylether	248	12.168	12.169	(0.951)	126161	20.0000	18.1074
	59 Hexachlorobenzene	284	12.396	12.407	(0.969)	146168	20.0000	18.3866
	60 Pentachlorophenol	266	12.603	12.614	(0.985)	89202	20.0000	17.8352
*	61 Phenanthrene-d10	188	12.789	12.790	(1.000)	1158464	40.0000	
	62 Phenanthrene	178	12.820	12.831	(1.002)	650903	20.0000	19.2929
	63 Anthracene	178	12.872	12.883	(1.006)	656946	20.0000	19.6266
	64 Carbazole	167	13.048	13.059	(1.020)	447584	20.0000	16.9354
	65 Di-n-butylphthalate	149	13.420	13.431	(1.049)	849722	20.0000	20.2897
	66 Fluoranthene	202	14.331	14.342	(1.121)	765465	20.0000	19.3265
	67 Benzidine	184	14.445	14.456	(0.861)	37435	20.0000	31.0609
	68 Pyrene	202	14.652	14.663	(0.873)	775929	20.0000	19.5663
$	69 Terphenyl-d14	244	14.787	14.798	(0.881)	560949	20.0000	19.0690
	70 Butylbenzylphthalate	149	15.522	15.532	(0.925)	359871	20.0000	19.2917
	71 3,3'-Dichlorobenzidine	252	16.639	16.661	(0.991)	198384	20.0000	16.5524
	72 Benzo(a)anthracene	228	16.722	16.754	(0.996)	708097	20.0000	19.0218
*	73 Chrysene-d12	240	16.784	16.795	(1.000)	1083441	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	16.577	16.599	(0.988)	532567	20.0000	19.6054

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC09.D
Report Date: 13-Jul-2004 09:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.836	16.867	(1.003)	652153	20.0000	18.8437
76 Di-n-octylphthalate	149	18.078	18.099	(0.866)	896545	20.0000	18.0789
77 Benzo(b)fluoranthene	252	19.589	19.652	(0.938)	713062	20.0000	18.6349(M)
78 Benzo(k)fluoranthene	252	19.672	19.724	(0.942)	672370	20.0000	21.1769(A)
79 Benzo(a)pyrene	252	20.666	20.708	(0.990)	603214	20.0000	19.1197
* 80 Perylene-d12	264	20.883	20.894	(1.000)	947270	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.164	24.216	(1.157)	736850	20.0000	21.5305
82 Dibenz(a,h)anthracene	278	24.174	24.237	(1.158)	581527	20.0000	21.0402
83 Benzo(g,h,i)perylene	276	24.920	24.972	(1.193)	600287	20.0000	22.7163

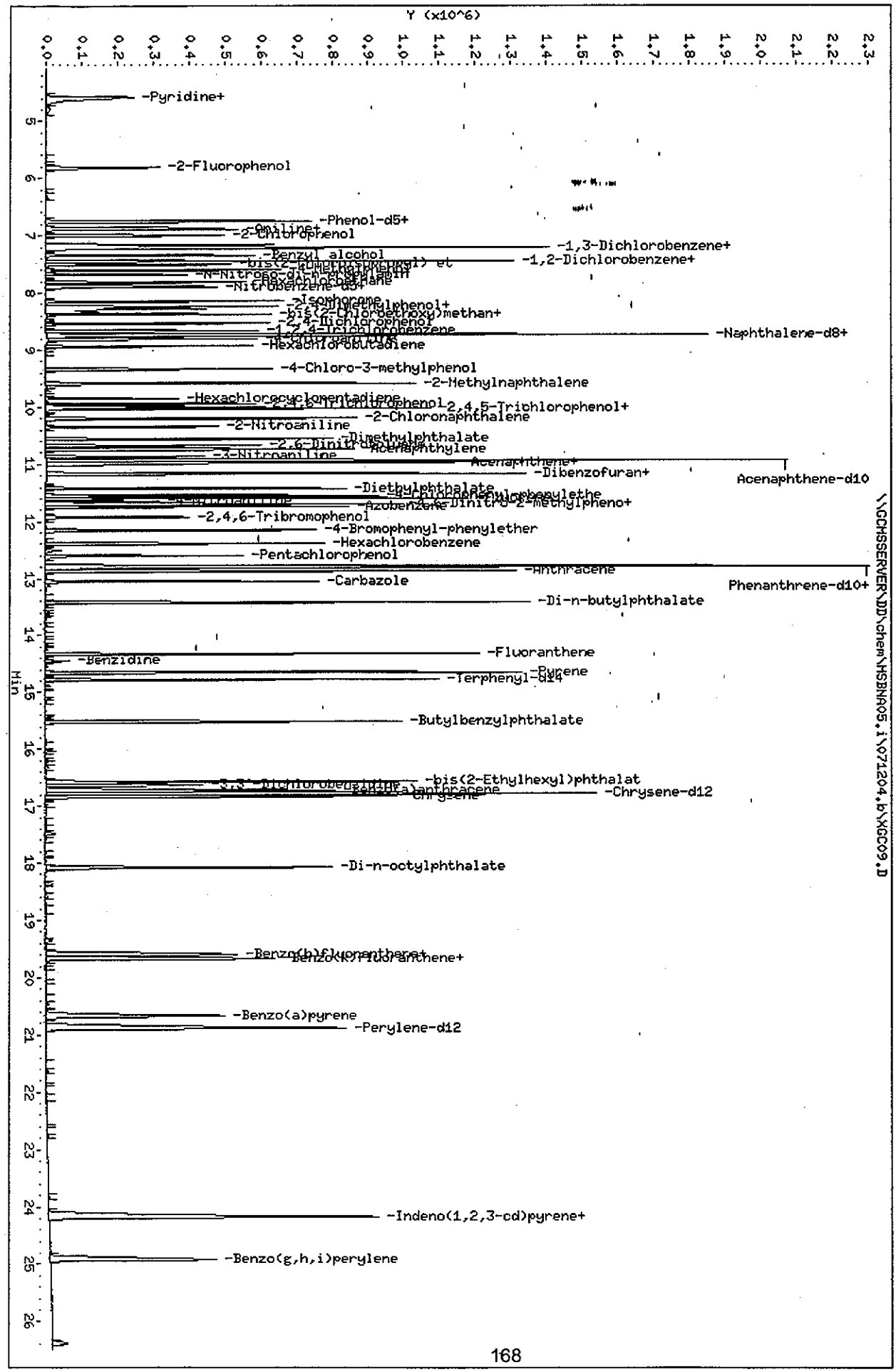
7/13/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC09.D
Date : 12-JUL-2004 16:55
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS4166
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC10.D
Report Date: 13-Jul-2004 09:29

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 12-JUL-2004 17:33 MS Autotune Date: 12-JUL-2004 12:59
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1167
Misc Info : 50ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\6PTBNA5.m
Meth Date : 13-Jul-2004 09:29 target Quant Type: ISTD
Cal Date : 12-JUL-2004 17:33 Cal File: XGC10.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	4.581	4.581	(0.635)	575983	50.0000	50.9825(M)
	2 N-Nitrosodimethylamine	42	4.581	4.581	(0.635)	203769	50.0000	51.2960(M)
$	3 2-Fluorophenol	112	5.813	5.813	(0.806)	515476	50.0000	50.3534
$	4 Phenol-d5	99	6.755	6.755	(0.937)	723290	50.0000	50.8221
	5 Phenol	94	6.776	6.776	(0.940)	744224	50.0000	50.8425
	6 Aniline	66	6.879	6.879	(0.954)	284648	50.0000	50.9600
	7 bis(2-Chloroethyl)ether	63	6.900	6.900	(0.957)	492194	50.0000	51.0437
	8 2-Chlorophenol	128	7.003	7.003	(0.971)	544071	50.0000	49.8322
	9 1,3-Dichlorobenzene	146	7.179	7.179	(0.996)	609479	50.0000	49.8507
*	10 1,4-Dichlorobenzene-d4	152	7.210	7.210	(1.000)	307543	40.0000	
	11 1,4-Dichlorobenzene	146	7.231	7.231	(1.003)	625812	50.0000	50.8723
	12 Benzyl alcohol	108	7.355	7.355	(1.020)	361528	50.0000	51.5569
	13 1,2-Dichlorobenzene	146	7.448	7.448	(1.033)	575424	50.0000	51.3899
	14 2-Methylphenol	107	7.459	7.459	(1.034)	433465	50.0000	53.0242
	15 bis(2-Chloroisopropyl) ether	45	7.511	7.511	(1.042)	791438	50.0000	52.4962
	16 4-Methylphenol	107	7.614	7.614	(1.056)	646067	50.0000	51.0311
	17 N-Nitroso-di-n-propylamine	70	7.687	7.687	(1.066)	336671	50.0000	52.9730
	18 Hexachloroethane	117	7.811	7.811	(1.083)	234102	50.0000	51.0646
$	19 Nitrobenzene-d5	82	7.883	7.883	(0.902)	582391	50.0000	50.4532
	20 Nitrobenzene	77	7.914	7.914	(0.905)	564762	50.0000	50.5019

7/18/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC10.D
Report Date: 13-Jul-2004 09:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.163	8.163	(0.934)	1116554	50.0000	51.0824
	22 2,4-Dimethylphenol	122	8.256	8.256	(0.944)	429097	50.0000	50.0358
	23 2-Nitrophenol	139	8.287	8.287	(0.948)	290780	50.0000	50.2423
	24 bis(2-Chloroethoxy)methane	93	8.380	8.380	(0.959)	707448	50.0000	51.6933
	25 Benzoic acid	122	8.401	8.401	(0.961)	284088	50.0000	48.3274
	26 2,4-Dichlorophenol	162	8.546	8.546	(0.978)	485002	50.0000	51.3007
	27 1,2,4-Trichlorobenzene	180	8.670	8.670	(0.992)	490048	50.0000	49.8728
*	28 Naphthalene-d8	136	8.742	8.742	(1.000)	1151296	40.0000	
	29 Naphthalene	128	8.763	8.763	(1.002)	1666394	50.0000	51.5994
	30 4-Chloroaniline	127	8.815	8.815	(1.008)	652815	50.0000	50.9818
	31 Hexachlorobutadiene	225	8.939	8.939	(1.022)	286236	50.0000	50.5500
	32 4-Chloro-3-methylphenol	107	9.343	9.343	(1.069)	488641	50.0000	51.3181
	33 2-Methylnaphthalene	142	9.591	9.591	(1.097)	1161183	50.0000	53.4429
	34 Hexachlorocyclopentadiene	237	9.860	9.860	(0.902)	251431	50.0000	50.0513
	35 2,4,6-Trichlorophenol	196	9.953	9.953	(0.910)	361849	50.0000	49.1227
	36 2,4,5-Trichlorophenol	196	10.005	10.005	(0.915)	373414	50.0000	49.4322
$	37 2-Fluorobiphenyl	172	10.046	10.046	(0.919)	1182765	50.0000	51.0851
	38 2-Chloronaphthalene	162	10.212	10.212	(0.934)	1035025	50.0000	49.5766
	39 2-Nitroaniline	65	10.357	10.357	(0.947)	369165	50.0000	51.6661
	40 Dimethylphthalate	163	10.574	10.574	(0.967)	1389979	50.0000	51.4564
	41 2,6-Dinitrotoluene	165	10.688	10.688	(0.977)	302215	50.0000	51.3398
	42 Acenaphthylene	152	10.750	10.750	(0.983)	1770904	50.0000	51.1860
	43 3-Nitroaniline	138	10.885	10.885	(0.995)	317832	50.0000	51.1591
*	44 Acenaphthene-d10	164	10.936	10.936	(1.000)	725355	40.0000	
	45 Acenaphthene	154	10.978	10.978	(1.004)	1109765	50.0000	53.0857
	46 2,4-Dinitrophenol	184	11.009	11.009	(1.007)	162670	50.0000	49.5184
	47 4-Nitrophenol	109	11.030	11.030	(1.009)	146551	50.0000	51.9147
	48 Dibenzofuran	168	11.175	11.175	(1.022)	1638420	50.0000	52.0859
	49 2,4-Dinitrotoluene	165	11.185	11.185	(1.023)	400202	50.0000	51.4196
	50 Diethylphthalate	149	11.433	11.433	(1.045)	1316390	50.0000	51.8508
	51 4-Chlorophenyl-phenylether	204	11.557	11.557	(1.057)	641208	50.0000	51.5483
	52 Fluorene	166	11.609	11.609	(1.062)	1368791	50.0000	52.2715
	53 4-Nitroaniline	138	11.671	11.671	(1.067)	264044	50.0000	49.1507
	54 4,6-Dinitro-2-methylphenol	198	11.713	11.713	(0.916)	220530	50.0000	52.5399
	55 N-Nitrosodiphenylamine	169	11.723	11.723	(0.917)	902016	50.0000	51.7609
	56 Azobenzene	77	11.764	11.764	(0.920)	1326020	50.0000	50.8674
$	57 2,4,6-Tribromophenol	330	11.940	11.940	(1.092)	226339	50.0000	50.6656
	58 4-Bromophenyl-phenylether	248	12.168	12.168	(0.951)	390079	50.0000	50.3160
	59 Hexachlorobenzene	284	12.406	12.406	(0.970)	455075	50.0000	51.4463
	60 Pentachlorophenol	266	12.613	12.613	(0.986)	280398	50.0000	50.3852
*	61 Phenanthrene-d10	188	12.789	12.789	(1.000)	1289021	40.0000	
	62 Phenanthrene	178	12.831	12.831	(1.003)	1930811	50.0000	51.4333
	63 Anthracene	178	12.882	12.882	(1.007)	1906235	50.0000	51.1817
	64 Carbazole	167	13.058	13.058	(1.021)	1405026	50.0000	47.7781
	65 Di-n-butylphthalate	149	13.431	13.431	(1.050)	2446145	50.0000	52.4934
	66 Fluoranthene	202	14.342	14.342	(1.121)	2211405	50.0000	50.1787
	67 Benzidine	184	14.456	14.456	(0.861)	59950	50.0000	45.0879
	68 Pyrene	202	14.663	14.663	(0.873)	2246996	50.0000	51.3599
$	69 Terphenyl-d14	244	14.797	14.797	(0.881)	1668432	50.0000	51.4101
	70 Butylbenzylphthalate	149	15.532	15.532	(0.925)	1054112	50.0000	51.2208
	71 3,3'-Dichlorobenzidine	252	16.660	16.660	(0.992)	671492	50.0000	50.7846
	72 Benzo(a)anthracene	228	16.753	16.753	(0.998)	2069107	50.0000	50.3822
*	73 Chrysene-d12	240	16.795	16.795	(1.000)	1195283	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	16.598	16.598	(0.988)	1549758	50.0000	51.7130

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC10.D
Report Date: 13-Jul-2004 09:29

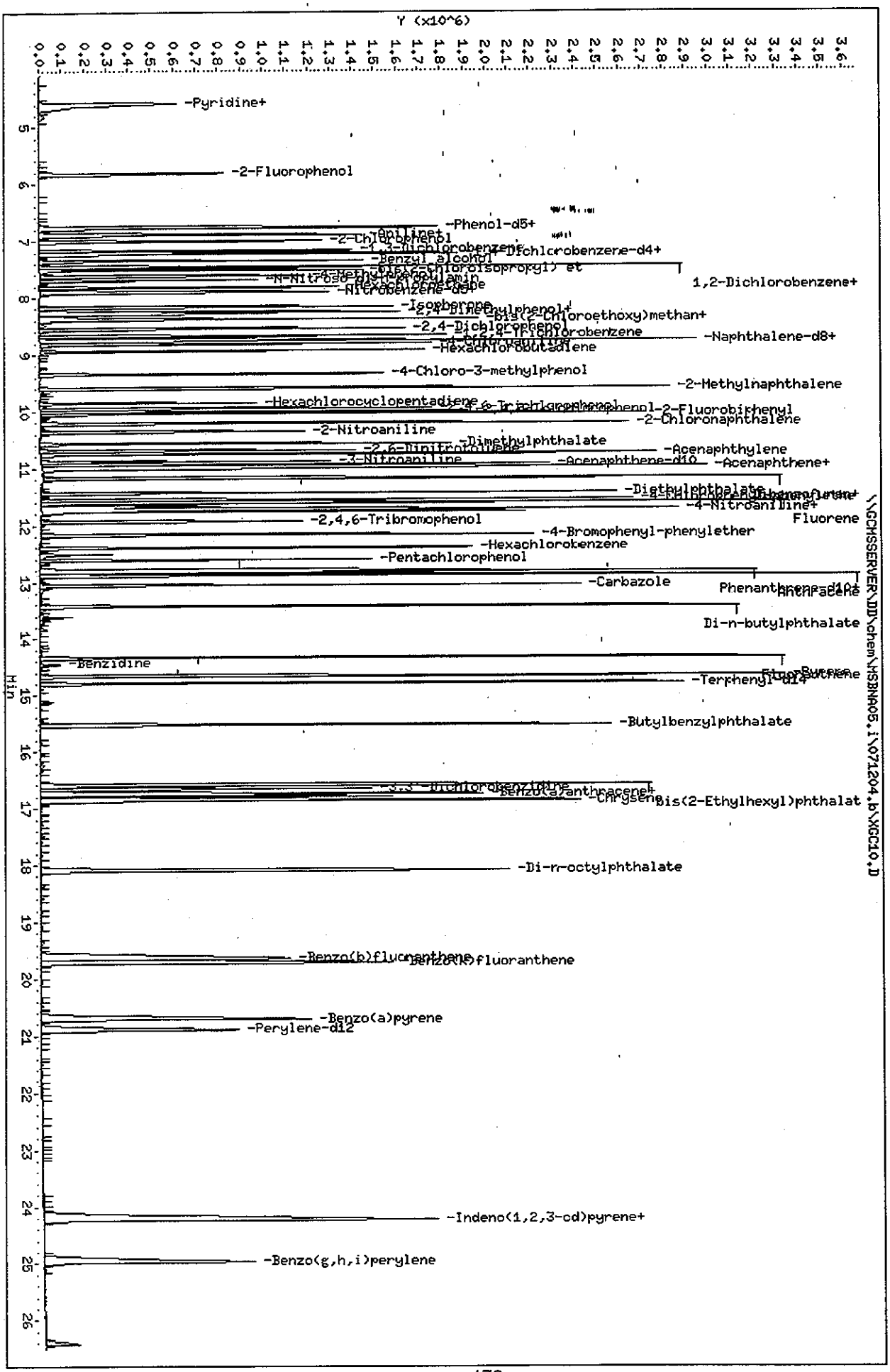
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.867	16.867	(1.004)	1933880	50.0000	50.6504
76 Di-n-octylphthalate	149	18.099	18.099	(0.866)	2631834	50.0000	49.6909
77 Benzo(b)fluoranthene	252	19.651	19.651	(0.941)	2146332	50.0000	45.3895
78 Benzo(k)fluoranthene	252	19.724	19.724	(0.944)	1940667	50.0000	57.2299(A)
79 Benzo(a)pyrene	252	20.707	20.707	(0.991)	1725563	50.0000	51.2104
* 80 Perylene-d12	264	20.893	20.893	(1.000)	1011711	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.216	24.216	(1.159)	1909158	50.0000	52.2317
82 Dibenz(a,h)anthracene	278	24.237	24.237	(1.160)	1560948	50.0000	52.8795
83 Benzo(g,h,i)perylene	276	24.971	24.971	(1.195)	1454780	50.0000	51.5459

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCHSSERVER\DD\chem\HSBNA05.i\071204.b\XGC10.D
Date : 12-JUL-2004 17:33
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1167
Volume Injected (ul): 1.0
Column phase: Xti 5 x .5 u

Instrument: HSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC11.D
Report Date: 13-Jul-2004 09:29

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 12-JUL-2004 18:12 MS Autotune Date: 12-JUL-2004 12:59
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1168
Misc Info : 80ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\6PTBNA5.m
Meth Date : 13-Jul-2004 09:29 target Quant Type: ISTD
Cal Date : 12-JUL-2004 18:12 Cal File: XGC11.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	4.582	4.581	(0.635)	885159	80.0000	82.5256 (M)
	2 N-Nitrosodimethylamine	42	4.582	4.581	(0.635)	305535	80.0000	81.0143 (M)
$	3 2-Fluorophenol	112	5.824	5.813	(0.808)	796612	80.0000	81.9640
$	4 Phenol-d5	99	6.765	6.755	(0.938)	1139810	80.0000	84.3584
	5 Phenol	94	6.786	6.776	(0.941)	1170314	80.0000	84.2134
	6 Aniline	66	6.890	6.879	(0.956)	446692	80.0000	84.2336
	7 bis(2-Chloroethyl)ether	63	6.910	6.900	(0.958)	771389	80.0000	84.2626
	8 2-Chlorophenol	128	7.014	7.003	(0.973)	855222	80.0000	82.5068
	9 1,3-Dichlorobenzene	146	7.179	7.179	(0.996)	948202	80.0000	81.6900
*	10 1,4-Dichlorobenzene-d4	152	7.210	7.210	(1.000)	291978	40.0000	
	11 1,4-Dichlorobenzene	146	7.231	7.231	(1.003)	963077	80.0000	82.4620
	12 Benzyl alcohol	108	7.366	7.355	(1.022)	575324	80.0000	86.4198
	13 1,2-Dichlorobenzene	146	7.459	7.448	(1.034)	882767	80.0000	83.0409
	14 2-Methylphenol	107	7.459	7.459	(1.034)	654132	80.0000	84.2833
	15 bis(2-Chloroisopropyl) ether	45	7.511	7.511	(1.042)	1217560	80.0000	85.0662
	16 4-Methylphenol	107	7.625	7.614	(1.057)	1017486	80.0000	84.6529
	17 N-Nitroso-di-n-propylamine	70	7.707	7.687	(1.069)	516203	80.0000	85.5510
	18 Hexachloroethane	117	7.811	7.811	(1.083)	358788	80.0000	82.4344
$	19 Nitrobenzene-d5	82	7.894	7.883	(0.903)	917503	80.0000	81.4641
	20 Nitrobenzene	77	7.914	7.914	(0.905)	887455	80.0000	81.3344

7/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC11.D
Report Date: 13-Jul-2004 09:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.173	8.163	(0.935)	1748370	80.0000	81.9804
	22 2,4-Dimethylphenol	122	8.266	8.256	(0.946)	700341	80.0000	83.6989
	23 2-Nitrophenol	139	8.287	8.287	(0.948)	462769	80.0000	81.9510
	24 bis(2-Chloroethoxy)methane	93	8.380	8.380	(0.959)	1102287	80.0000	82.5505
	25 Benzoic acid	122	8.432	8.401	(0.964)	477755	80.0000	77.4996
	26 2,4-Dichlorophenol	162	8.556	8.546	(0.979)	758806	80.0000	82.2614
	27 1,2,4-Trichlorobenzene	180	8.670	8.670	(0.992)	783250	80.0000	81.6979
*	28 Naphthalene-d8	136	8.742	8.742	(1.000)	1123316	40.0000	
	29 Naphthalene	128	8.773	8.763	(1.004)	2617995	80.0000	83.0847
	30 4-Chloroaniline	127	8.825	8.815	(1.009)	1033739	80.0000	82.7411
	31 Hexachlorobutadiene	225	8.939	8.939	(1.022)	451818	80.0000	81.7797
	32 4-Chloro-3-methylphenol	107	9.353	9.343	(1.070)	765143	80.0000	82.3585
	33 2-Methylnaphthalene	142	9.601	9.591	(1.098)	1771765	80.0000	83.5758
	34 Hexachlorocyclopentadiene	237	9.860	9.860	(0.902)	411676	80.0000	85.1990
	35 2,4,6-Trichlorophenol	196	9.964	9.953	(0.911)	581052	80.0000	82.0072
	36 2,4,5-Trichlorophenol	196	10.015	10.005	(0.916)	608655	80.0000	83.7669
$	37 2-Fluorobiphenyl	172	10.046	10.046	(0.919)	1825628	80.0000	81.9767
	38 2-Chloronaphthalene	162	10.222	10.212	(0.935)	1645389	80.0000	81.9363
	39 2-Nitroaniline	65	10.367	10.357	(0.948)	563027	80.0000	81.9212
	40 Dimethylphthalate	163	10.574	10.574	(0.967)	2161656	80.0000	83.1954
	41 2,6-Dinitrotoluene	165	10.699	10.688	(0.978)	473390	80.0000	83.6064
	42 Acenaphthylene	152	10.761	10.750	(0.984)	2748344	80.0000	82.5865
	43 3-Nitroaniline	138	10.895	10.885	(0.996)	507257	80.0000	84.8859
*	44 Acenaphthene-d10	164	10.937	10.936	(1.000)	697700	40.0000	
	45 Acenaphthene	154	10.988	10.978	(1.005)	1722304	80.0000	85.6521
	46 2,4-Dinitrophenol	184	11.019	11.009	(1.008)	266828	80.0000	80.5763
	47 4-Nitrophenol	109	11.040	11.030	(1.009)	217408	80.0000	80.0680
	48 Dibenzofuran	168	11.175	11.175	(1.022)	2568777	80.0000	84.8991
	49 2,4-Dinitrotoluene	165	11.195	11.185	(1.024)	615483	80.0000	82.2143
	50 Diethylphthalate	149	11.444	11.433	(1.046)	1991717	80.0000	81.5607
	51 4-Chlorophenyl-phenylether	204	11.568	11.557	(1.058)	1025504	80.0000	85.7107
	52 Fluorene	166	11.620	11.609	(1.062)	2135809	80.0000	84.7954
	53 4-Nitroaniline	138	11.692	11.671	(1.069)	437816	80.0000	84.7281
	54 4,6-Dinitro-2-methylphenol	198	11.734	11.713	(0.917)	347181	80.0000	88.1173
	55 N-Nitrosodiphenylamine	169	11.734	11.723	(0.917)	1364222	80.0000	83.3980
	56 Azobenzene	77	11.765	11.764	(0.919)	2139367	80.0000	87.4296
$	57 2,4,6-Tribromophenol	330	11.941	11.940	(1.092)	367812	80.0000	85.5977
	58 4-Bromophenyl-phenylether	248	12.179	12.168	(0.951)	620413	80.0000	85.2547
	59 Hexachlorobenzene	284	12.406	12.406	(0.969)	707255	80.0000	85.1787
	60 Pentachlorophenol	266	12.613	12.613	(0.985)	440204	80.0000	84.2685
*	61 Phenanthrene-d10	188	12.800	12.789	(1.000)	1209976	40.0000	
	62 Phenanthrene	178	12.831	12.831	(1.002)	2926569	80.0000	83.0514
	63 Anthracene	178	12.893	12.882	(1.007)	2950527	80.0000	84.3959
	64 Carbazole	167	13.069	13.058	(1.021)	2363394	80.0000	85.6178
	65 Di-n-butylphthalate	149	13.431	13.431	(1.049)	3485244	80.0000	79.6781
	66 Fluoranthene	202	14.342	14.342	(1.120)	3352877	80.0000	81.0498
	67 Benzidine	184	14.456	14.456	(0.860)	163779	80.0000	129.9803
	68 Pyrene	202	14.673	14.663	(0.873)	3385393	80.0000	81.6544
$	69 Terphenyl-d14	244	14.797	14.797	(0.881)	2571744	80.0000	83.6212
	70 Butylbenzylphthalate	149	15.542	15.532	(0.925)	1631760	80.0000	83.6691
	71 3,3'-Dichlorobenzidine	252	16.681	16.660	(0.993)	1108907	80.0000	88.4982
	72 Benzo(a)anthracene	228	16.764	16.753	(0.998)	3202378	80.0000	82.2840
*	73 Chrysene-d12	240	16.805	16.795	(1.000)	1132719	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	16.609	16.598	(0.988)	2350206	80.0000	82.7543

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC11.D
Report Date: 13-Jul-2004 09:29

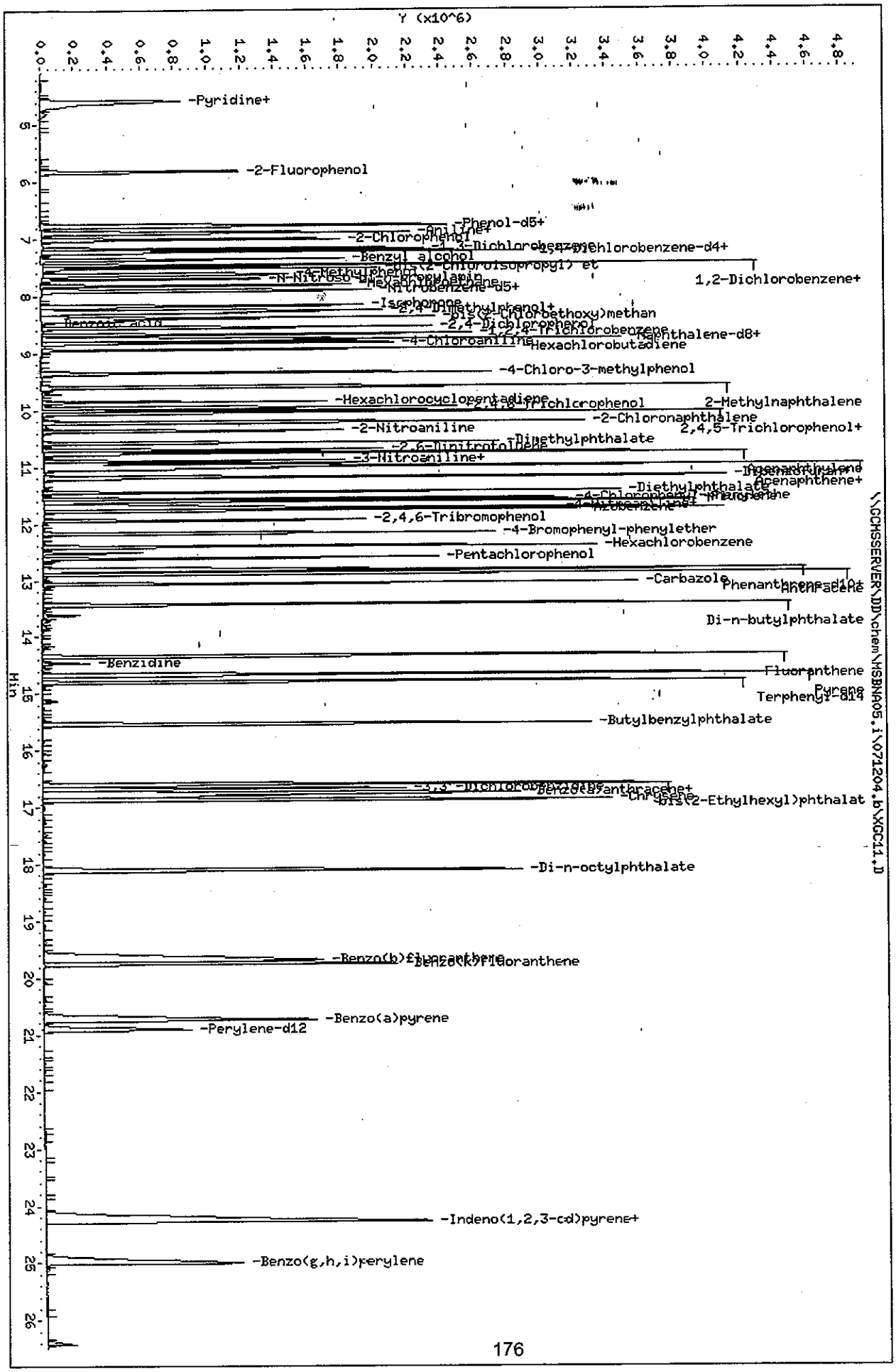
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.878	16.867	(1.004)	3036542	80.0000	83.9230
76 Di-n-octylphthalate	149	18.109	18.099	(0.866)	4011420	80.0000	82.1558
77 Benzo(b)fluoranthene	252	19.683	19.651	(0.942)	3850027	80.0000	81.2538
78 Benzo(k)fluoranthene	252	19.755	19.724	(0.945)	2370386	80.0000	75.8250(A)
79 Benzo(a)pyrene	252	20.738	20.707	(0.992)	2597532	80.0000	83.6199
* 80 Perylene-d12	264	20.904	20.893	(1.000)	932685	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.268	24.216	(1.161)	2730371	80.0000	81.0281
82 Dibenz(a,h)anthracene	278	24.268	24.237	(1.161)	2262894	80.0000	83.1543
83 Benzo(g,h,i)perylene	276	24.992	24.971	(1.196)	2040470	80.0000	78.4239

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC11.D
Date : 12-JUL-2004 18:12
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1168
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC12.D
Report Date: 13-Jul-2004 09:29

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC12.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 12-JUL-2004 18:50 MS Autotune Date: 12-JUL-2004 12:59
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1169
Misc Info : 120ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\6PTBNA5.m
Meth Date : 13-Jul-2004 09:29 target Quant Type: ISTD
Cal Date : 12-JUL-2004 18:50 Cal File: XGC12.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.581	4.581	(0.635)	1457862	120.000	122.7345(M)
2 N-Nitrosodimethylamine	42	4.592	4.581	(0.636)	486590	120.000	116.5056(M)
$ 3 2-Fluorophenol	112	5.823	5.813	(0.806)	1314352	120.000	122.1154
$ 4 Phenol-d5	99	6.786	6.755	(0.940)	1860075	120.000	124.3109
5 Phenol	94	6.796	6.776	(0.941)	1891626	120.000	122.9128
6 Aniline	66	6.900	6.879	(0.956)	697232	120.000	118.7237
7 bis(2-Chloroethyl)ether	63	6.921	6.900	(0.958)	1224242	120.000	120.7567
8 2-Chlorophenol	128	7.024	7.003	(0.973)	1405006	120.000	122.3972
9 1,3-Dichlorobenzene	146	7.179	7.179	(0.994)	1572232	120.000	122.3115
* 10 1,4-Dichlorobenzene-d4	152	7.221	7.210	(1.000)	323346	40.0000	
11 1,4-Dichlorobenzene	146	7.241	7.231	(1.003)	1552085	120.000	120.0028
12 Benzyl alcohol	108	7.376	7.355	(1.022)	929264	120.000	126.0442
13 1,2-Dichlorobenzene	146	7.459	7.448	(1.033)	1382981	120.000	117.4748
14 2-Methylphenol	107	7.469	7.459	(1.034)	1028273	120.000	119.6374
15 bis(2-Chloroisopropyl) ether	45	7.521	7.511	(1.042)	1875495	120.000	118.3219
16 4-Methylphenol	107	7.624	7.614	(1.056)	1656639	120.000	124.4584
17 N-Nitroso-di-n-propylamine	70	7.718	7.687	(1.069)	823521	120.000	123.2429
18 Hexachloroethane	117	7.821	7.811	(1.083)	574510	120.000	119.1931
$ 19 Nitrobenzene-d5	82	7.904	7.883	(0.904)	1489950	120.000	120.6699
20 Nitrobenzene	77	7.925	7.914	(0.906)	1437978	120.000	120.2122

7/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC12.D
Report Date: 13-Jul-2004 09:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.194	8.163	(0.937)	2892241	120.000	123.7028
	22 2,4-Dimethylphenol	122	8.276	8.256	(0.947)	1127229	120.000	122.8827
	23 2-Nitrophenol	139	8.297	8.287	(0.949)	762851	120.000	123.2248
	24 bis(2-Chloroethoxy)methane	93	8.401	8.380	(0.961)	1778205	120.000	121.4718
	25 Benzoic acid	122	8.483	8.401	(0.970)	900810	120.000	125.0607
	26 2,4-Dichlorophenol	162	8.566	8.546	(0.980)	1230231	120.000	121.6523
	27 1,2,4-Trichlorobenzene	180	8.680	8.670	(0.993)	1281762	120.000	121.9512
*	28 Naphthalene-d8	136	8.742	8.742	(1.000)	1231498	40.0000	
	29 Naphthalene	128	8.773	8.763	(1.004)	4131667	120.000	119.6040
	30 4-Chloroaniline	127	8.835	8.815	(1.011)	1678367	120.000	122.5365
	31 Hexachlorobutadiene	225	8.939	8.939	(1.022)	736099	120.000	121.5308
	32 4-Chloro-3-methylphenol	107	9.363	9.343	(1.071)	1255391	120.000	123.2575
	33 2-Methylnaphthalene	142	9.601	9.591	(1.098)	2835685	120.000	122.0115
	34 Hexachlorocyclopentadiene	237	9.860	9.860	(0.901)	669699	120.000	123.5400
	35 2,4,6-Trichlorophenol	196	9.974	9.953	(0.911)	981261	120.000	123.4441
	36 2,4,5-Trichlorophenol	196	10.026	10.005	(0.916)	1016516	120.000	124.6994
$	37 2-Fluorobiphenyl	172	10.057	10.046	(0.919)	2917519	120.000	116.7726
	38 2-Chloronaphthalene	162	10.222	10.212	(0.934)	2727907	120.000	121.0839
	39 2-Nitroaniline	65	10.378	10.357	(0.948)	895034	120.000	116.0795
	40 Dimethylphthalate	163	10.595	10.574	(0.968)	3470530	120.000	119.0578
	41 2,6-Dinitrotoluene	165	10.719	10.688	(0.979)	773947	120.000	121.8375
	42 Acenaphthylene	152	10.771	10.750	(0.984)	4387897	120.000	117.5285
	43 3-Nitroaniline	138	10.916	10.885	(0.997)	828911	120.000	123.6416
*	44 Acenaphthene-d10	164	10.947	10.936	(1.000)	782744	40.0000	
	45 Acenaphthene	154	10.999	10.978	(1.005)	2597375	120.000	115.1363
	46 2,4-Dinitrophenol	184	11.030	11.009	(1.008)	460365	120.000	119.8811
	47 4-Nitrophenol	109	11.061	11.030	(1.010)	340874	120.000	111.8991
	48 Dibenzofuran	168	11.185	11.175	(1.022)	4051386	120.000	119.3520
	49 2,4-Dinitrotoluene	165	11.216	11.185	(1.025)	984837	120.000	117.2586
	50 Diethylphthalate	149	11.464	11.433	(1.047)	3168274	120.000	115.6445
	51 4-Chlorophenyl-phenylether	204	11.578	11.557	(1.058)	1622895	120.000	120.9030
	52 Fluorene	166	11.630	11.609	(1.062)	3362017	120.000	118.9759
	53 4-Nitroaniline	138	11.733	11.671	(1.072)	731629	120.000	126.2048
	54 4,6-Dinitro-2-methylphenol	198	11.754	11.713	(0.918)	558901	120.000	130.2291
	55 N-Nitrosodiphenylamine	169	11.744	11.723	(0.917)	2193771	120.000	123.1204
	56 Azobenzene	77	11.775	11.764	(0.919)	3216832	120.000	120.6895
$	57 2,4,6-Tribromophenol	330	11.961	11.940	(1.093)	616190	120.000	127.8203
	58 4-Bromophenyl-phenylether	248	12.178	12.168	(0.951)	1024316	120.000	129.2229
	59 Hexachlorobenzene	284	12.417	12.406	(0.969)	1128959	120.000	124.8249
	60 Pentachlorophenol	266	12.624	12.613	(0.985)	734132	120.000	129.0189
*	61 Phenanthrene-d10	188	12.810	12.789	(1.000)	1317980	40.0000	
	62 Phenanthrene	178	12.841	12.831	(1.002)	4605428	120.000	119.9848
	63 Anthracene	178	12.903	12.882	(1.007)	4454053	120.000	116.9621
	64 Carbazole	167	13.079	13.058	(1.021)	3988909	120.000	132.6631
	65 Di-n-butylphthalate	149	13.441	13.431	(1.049)	5323588	120.000	111.7322
	66 Fluoranthene	202	14.352	14.342	(1.120)	5372532	120.000	119.2289
	67 Benzidine	184	14.466	14.456	(0.860)	168779	120.000	120.7684
	68 Pyrene	202	14.683	14.663	(0.873)	5521776	120.000	120.0785
$	69 Terphenyl-d14	244	14.807	14.797	(0.880)	4169600	120.000	122.2359
	70 Butylbenzylphthalate	149	15.553	15.532	(0.924)	2602104	120.000	120.2954
	71 3,3'-Dichlorobenzidine	252	16.712	16.660	(0.993)	1841243	120.000	132.4849
	72 Benzo(a)anthracene	228	16.784	16.753	(0.998)	5316223	120.000	123.1577
*	73 Chrysene-d12	240	16.826	16.795	(1.000)	1256338	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	16.619	16.598	(0.988)	3797845	120.000	120.5695

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC12.D
Report Date: 13-Jul-2004 09:29

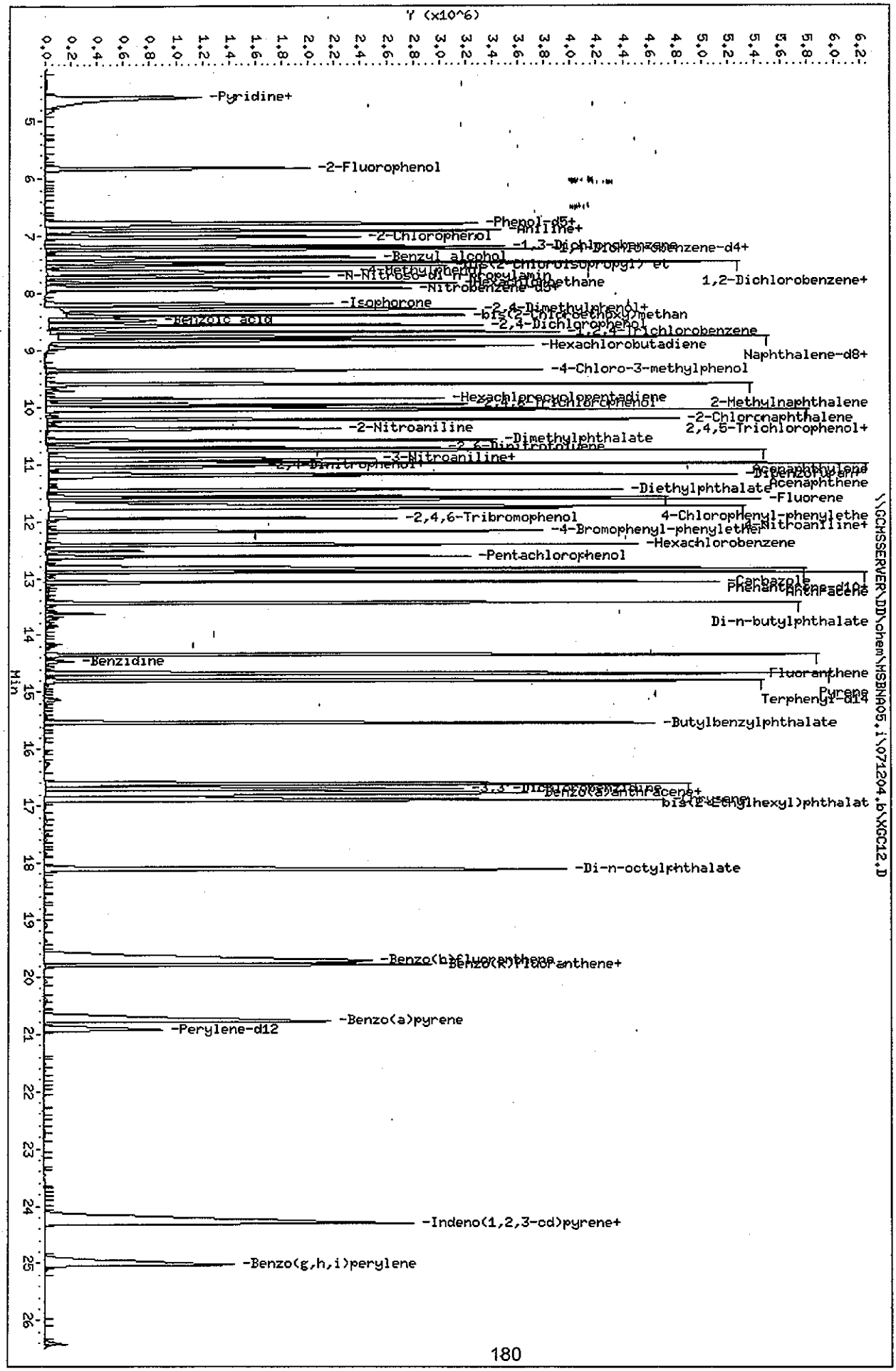
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.909	16.867	(1.005)	4990652	120.000	124.3583
76 Di-n-octylphthalate	149	18.120	18.099	(0.866)	6414084	120.000	127.6736
77 Benzo(b)fluoranthene	252	19.724	19.651	(0.943)	6508917	120.000	122.5770
78 Benzo(k)fluoranthene	252	19.796	19.724	(0.946)	3408657	120.000	105.9749(AH)
79 Benzo(a)pyrene	252	20.769	20.707	(0.993)	4049290	120.000	126.6934
* 80 Perylene-d12	264	20.924	20.893	(1.000)	959641	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.309	24.216	(1.162)	3890770	120.000	112.2214
82 Dibenz(a,h)anthracene	278	24.299	24.237	(1.161)	3295630	120.000	117.7024
83 Benzo(g,h,i)perylene	276	25.023	24.971	(1.196)	2737208	120.000	102.2474

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC12.D
Date : 12-JUL-2004 18:50
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1169
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC13.D
Report Date: 13-Jul-2004 09:29

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC13.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 12-JUL-2004 19:28 MS Autotune Date: 12-JUL-2004 12:59
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1170
Misc Info : 160ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\6PTBNA5.m
Meth Date : 13-Jul-2004 09:29 target Quant Type: ISTD
Cal Date : 12-JUL-2004 19:28 Cal File: XGC13.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.581	4.581	(0.635)	1978543	160.000	165.0151(M)
2 N-Nitrosodimethylamine	42	4.602	4.581	(0.637)	645786	160.000	153.1794(M)
$ 3 2-Fluorophenol	112	5.823	5.813	(0.806)	1784415	160.000	164.2414
$ 4 Phenol-d5	99	6.796	6.755	(0.941)	2500124	160.000	165.5268
5 Phenol	94	6.807	6.776	(0.943)	2555089	160.000	164.4734
6 Aniline	66	6.910	6.879	(0.957)	947422	160.000	159.8201
7 bis(2-Chloroethyl)ether	63	6.921	6.900	(0.958)	1587561	160.000	155.1324
8 2-Chlorophenol	128	7.024	7.003	(0.973)	1913740	160.000	165.1598
9 1,3-Dichlorobenzene	146	7.190	7.179	(0.996)	2073424	160.000	159.7964
* 10 1,4-Dichlorobenzene-d4	152	7.221	7.210	(1.000)	326392	40.0000	
11 1,4-Dichlorobenzene	146	7.241	7.231	(1.003)	2027106	160.000	155.2674
12 Benzyl alcohol	108	7.386	7.355	(1.023)	1268209	160.000	170.4129
13 1,2-Dichlorobenzene	146	7.459	7.448	(1.033)	1823736	160.000	153.4682
14 2-Methylphenol	107	7.479	7.459	(1.036)	1329765	160.000	153.2716
15 bis(2-Chloroisopropyl) ether	45	7.521	7.511	(1.042)	2366310	160.000	147.8934
16 4-Methylphenol	107	7.635	7.614	(1.057)	2231548	160.000	166.0850
17 N-Nitroso-di-n-propylamine	70	7.738	7.687	(1.072)	1119077	160.000	165.9111
18 Hexachloroethane	117	7.821	7.811	(1.083)	746694	160.000	153.4702
$ 19 Nitrobenzene-d5	82	7.914	7.883	(0.904)	1968008	160.000	157.4919
20 Nitrobenzene	77	7.935	7.914	(0.907)	1877045	160.000	155.0512

7/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC13.D
Report Date: 13-Jul-2004 09:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.204	8.163	(0.937)	3909045	160.000	165.2038
	22 2,4-Dimethylphenol	122	8.287	8.256	(0.947)	1488207	160.000	160.3047
	23 2-Nitrophenol	139	8.307	8.287	(0.949)	999012	160.000	159.4532
	24 bis(2-Chloroethoxy)methane	93	8.401	8.380	(0.960)	2353667	160.000	158.8703
	25 Benzoic acid	122	8.525	8.401	(0.974)	1188593	160.000	157.6321
	26 2,4-Dichlorophenol	162	8.577	8.546	(0.980)	1659755	160.000	162.1742
	27 1,2,4-Trichlorobenzene	180	8.680	8.670	(0.992)	1718084	160.000	161.5204
*	28 Naphthalene-d8	136	8.753	8.742	(1.000)	1246320	40.0000	
	29 Naphthalene	128	8.784	8.763	(1.004)	5224902	160.000	149.4524
	30 4-Chloroaniline	127	8.835	8.815	(1.009)	2243621	160.000	161.8573
	31 Hexachlorobutadiene	225	8.949	8.939	(1.022)	940501	160.000	153.4312
	32 4-Chloro-3-methylphenol	107	9.374	9.343	(1.071)	1664212	160.000	161.4534
	33 2-Methylnaphthalene	142	9.612	9.591	(1.098)	3594015	160.000	152.8012
	34 Hexachlorocyclopentadiene	237	9.860	9.860	(0.901)	903934	160.000	166.7276
	35 2,4,6-Trichlorophenol	196	9.974	9.953	(0.911)	1363810	160.000	171.5468
	36 2,4,5-Trichlorophenol	196	10.036	10.005	(0.917)	1347446	160.000	165.2740
$	37 2-Fluorobiphenyl	172	10.067	10.046	(0.920)	3800481	160.000	152.0928
	38 2-Chloronaphthalene	162	10.233	10.212	(0.935)	3524052	160.000	156.4018
	39 2-Nitroaniline	65	10.388	10.357	(0.949)	1164293	160.000	150.9807
	40 Dimethylphthalate	163	10.595	10.574	(0.968)	4602882	160.000	157.8828
	41 2,6-Dinitrotoluene	165	10.729	10.688	(0.980)	1024874	160.000	161.3181
	42 Acenaphthylene	152	10.771	10.750	(0.984)	5792732	160.000	155.1362
	43 3-Nitroaniline	138	10.926	10.885	(0.998)	1109037	160.000	165.4039
*	44 Acenaphthene-d10	164	10.947	10.936	(1.000)	782847	40.0000	
	45 Acenaphthene	154	11.009	10.978	(1.006)	3274832	160.000	145.1474
	46 2,4-Dinitrophenol	184	11.040	11.009	(1.009)	630129	160.000	159.9744
	47 4-Nitrophenol	109	11.081	11.030	(1.012)	439902	160.000	144.3882
	48 Dibenzofuran	168	11.195	11.175	(1.023)	5150215	160.000	151.7030
	49 2,4-Dinitrotoluene	165	11.226	11.185	(1.026)	1315398	160.000	156.5959
	50 Diethylphthalate	149	11.475	11.433	(1.048)	3901067	160.000	142.3733
	51 4-Chlorophenyl-phenylether	204	11.588	11.557	(1.059)	2125214	160.000	158.3042
	52 Fluorene	166	11.630	11.609	(1.062)	4360588	160.000	154.2933
	53 4-Nitroaniline	138	11.754	11.671	(1.074)	926860	160.000	159.8608(H)
	54 4,6-Dinitro-2-methylphenol	198	11.764	11.713	(0.918)	703457	160.000	168.6985
	55 N-Nitrosodiphenylamine	169	11.754	11.723	(0.918)	2804301	160.000	161.9809
	56 Azobenzene	77	11.785	11.764	(0.920)	3765597	160.000	145.4036
$	57 2,4,6-Tribromophenol	330	11.961	11.940	(1.093)	824881	160.000	171.0879
	58 4-Bromophenyl-phenylether	248	12.189	12.168	(0.952)	1296157	160.000	168.2920
	59 Hexachlorobenzene	284	12.427	12.406	(0.970)	1452331	160.000	165.2681
	60 Pentachlorophenol	266	12.634	12.613	(0.986)	986010	160.000	178.3451
*	61 Phenanthrene-d10	188	12.810	12.789	(1.000)	1280585	40.0000	
	62 Phenanthrene	178	12.851	12.831	(1.003)	5840159	160.000	156.5962
	63 Anthracene	178	12.913	12.882	(1.008)	5548383	160.000	149.9536
	64 Carbazole	167	13.089	13.058	(1.022)	5302545	160.000	181.5018
	65 Di-n-butylphthalate	149	13.441	13.431	(1.049)	6967105	160.000	150.4966
	66 Fluoranthene	202	14.362	14.342	(1.121)	6914044	160.000	157.9192
	67 Benzidine	184	14.466	14.456	(0.859)	169282	160.000	121.8640
	68 Pyrene	202	14.694	14.663	(0.873)	7143362	160.000	156.2855
$	69 Terphenyl-d14	244	14.818	14.797	(0.880)	5292748	160.000	156.1044
	70 Butylbenzylphthalate	149	15.553	15.532	(0.924)	3390092	160.000	157.6760
	71 3,3'-Dichlorobenzidine	252	16.733	16.660	(0.994)	2448316	160.000	177.2362
	72 Benzo(a)anthracene	228	16.795	16.753	(0.998)	7141810	160.000	166.4548
*	73 Chrysene-d12	240	16.836	16.795	(1.000)	1248754	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	16.639	16.598	(0.988)	4808858	160.000	153.5932

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC13.D
Report Date: 13-Jul-2004 09:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.929	16.867	(1.006)	6545540	160.000	164.0940
76 Di-n-octylphthalate	149	18.130	18.099	(0.866)	8357656	160.000	177.1244
77 Benzo(b)fluoranthene	252	19.755	19.651	(0.944)	8646330	160.000	158.7119
78 Benzo(k)fluoranthene	252	19.827	19.724	(0.947)	4027193	160.000	133.3059(AH)
79 Benzo(a)pyrene	252	20.800	20.707	(0.994)	5147931	160.000	171.4886
* 80 Perylene-d12	264	20.935	20.893	(1.000)	901325	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	24.319	24.216	(1.162)	4481680	160.000	137.6285
82 Dibenz(a,h)anthracene	278	24.319	24.237	(1.162)	3836757	160.000	145.8944
83 Benzo(g,h,i)perylene	276	25.044	24.971	(1.196)	3095999	160.000	123.1324

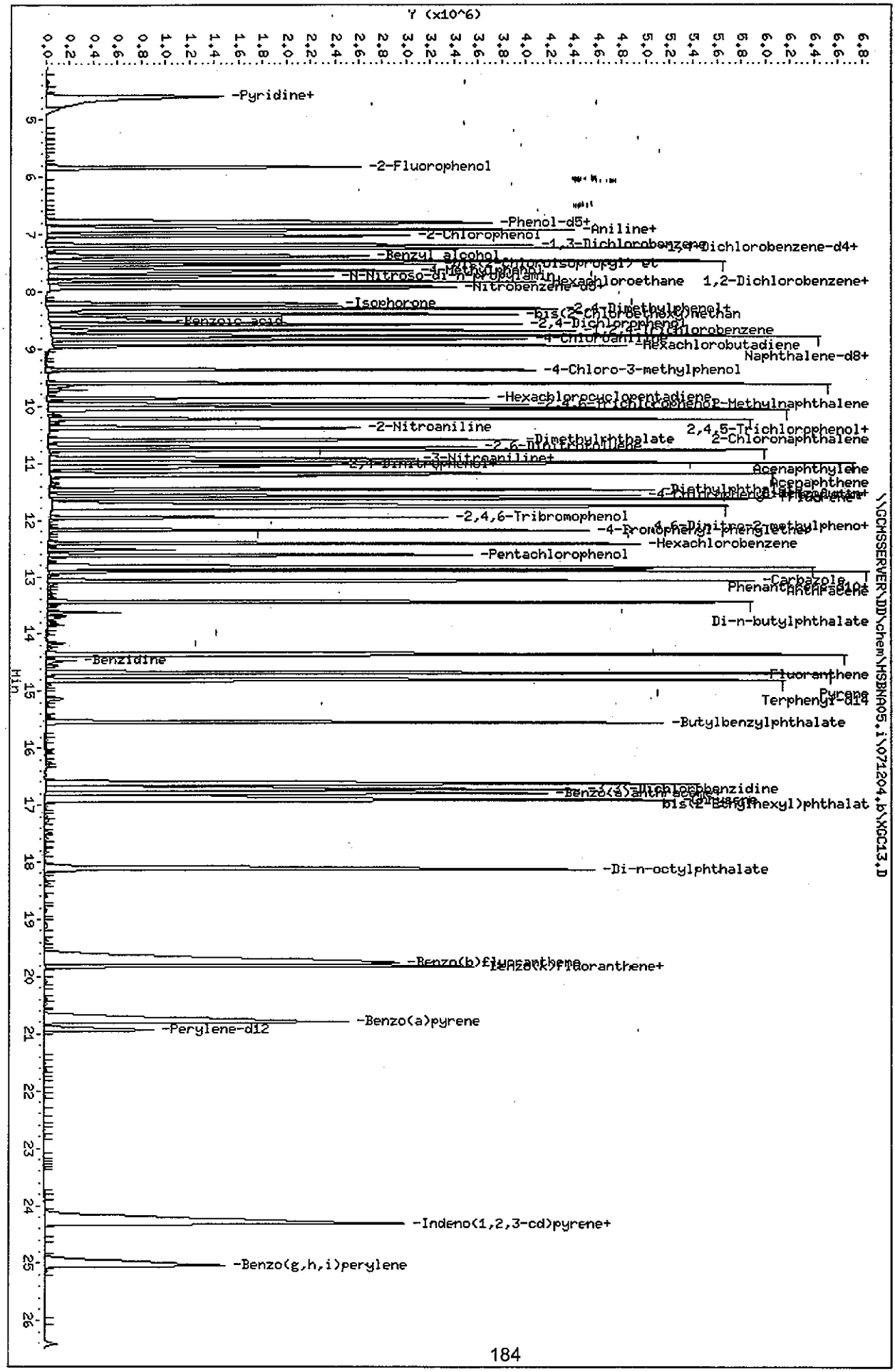
7/13/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\071204.b\XGC13.D
Date : 12-JUL-2004 19:28
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS4170
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : MSBNA05
eqnum : 544280054014
alnum : 544280054001
tandards: 04WS1163

Run Name : 80ug/ml ICV
Filename : xgc14
Caldate : 12-JUL-2004

Injected : 12-JUL-2004 20:07
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	70.53090	ng	-12	30	m
Pyridine	80.00000	80.90280	ng	1	30	m
Phenol	80.00000	74.60390	ng	-7	20	
Aniline	80.00000	73.55080	ng	-8	30	
bis(2-Chloroethyl)ether	80.00000	75.42430	ng	-6	30	
2-Chlorophenol	80.00000	74.23110	ng	-7	30	
1,3-Dichlorobenzene	80.00000	72.38980	ng	-10	30	
1,4-Dichlorobenzene	80.00000	72.28900	ng	-10	20	
Benzyl alcohol	80.00000	82.74090	ng	3	30	
1,2-Dichlorobenzene	80.00000	72.35730	ng	-10	30	
2-Methylphenol	80.00000	72.65160	ng	-9	30	
bis(2-Chloroisopropyl) ether	80.00000	70.00040	ng	-12	30	
4-Methylphenol	80.00000	74.97470	ng	-6	30	
N-Nitroso-di-n-propylamine	80.00000	78.24130	ng	-2	30	
Hexachloroethane	80.00000	75.87010	ng	-5	30	
Nitrobenzene	80.00000	70.71110	ng	-12	30	
Isophorone	80.00000	74.43770	ng	-7	30	
2-Nitrophenol	80.00000	75.27580	ng	-6	20	
2,4-Dimethylphenol	80.00000	83.64550	ng	5	30	
bis(2-Chloroethoxy)methane	80.00000	70.28850	ng	-12	30	
Benzoic acid	80.00000	104.6650	ng	31	40	!v+
2,4-Dichlorophenol	80.00000	73.28080	ng	-8	20	
1,2,4-Trichlorobenzene	80.00000	72.79320	ng	-9	30	
Naphthalene	80.00000	73.32780	ng	-8	30	
4-Chloroaniline	80.00000	78.31490	ng	-2	30	
Hexachlorobutadiene	80.00000	71.08990	ng	-11	20	
4-Chloro-3-methylphenol	80.00000	75.88400	ng	-5	20	
2-Methylnaphthalene	80.00000	73.99600	ng	-8	30	
Hexachlorocyclopentadiene	80.00000	76.58490	ng	-4	40	
2,4,6-Trichlorophenol	80.00000	72.30220	ng	-10	20	
2,4,5-Trichlorophenol	80.00000	76.53040	ng	-4	30	
2-Chloronaphthalene	80.00000	72.04680	ng	-10	30	
2-Nitroaniline	80.00000	69.67690	ng	-13	30	
Dimethylphthalate	80.00000	71.68760	ng	-10	30	
2,6-Dinitrotoluene	80.00000	72.29550	ng	-10	30	
Acenaphthylene	80.00000	71.00390	ng	-11	30	
3-Nitroaniline	80.00000	64.82610	ng	-19	30	
Acenaphthene	80.00000	73.56260	ng	-8	20	
2,4-Dinitrophenol	80.00000	74.41910	ng	-7	40	
4-Nitrophenol	80.00000	74.91210	ng	-6	40	
Dibenzofuran	80.00000	73.21910	ng	-8	30	
2,4-Dinitrotoluene	80.00000	71.97430	ng	-10	30	
Diethylphthalate	80.00000	71.75510	ng	-10	30	
Fluorene	80.00000	72.98510	ng	-9	30	
4-Chlorophenyl-phenylether	80.00000	73.60070	ng	-8	40	
4-Nitroaniline	80.00000	30.74000	ng	-62	30	v- ***
4,6-Dinitro-2-methylphenol	80.00000	85.23990	ng	7	30	

!=warning +=high bias -=low bias m=manual integration v=ICV

7/13/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA05 Run Name : 80ug/ml ICV
Seqnum : 544280054014 Filename : xgc14 Injected : 12-JUL-2004 20:07
Calnum : 544280054001 Caldate : 12-JUL-2004 Caltype :
Standards: 04WS1163

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	65.66690	ng	-18	20	
Azobenzene	80.00000	74.28000	ng	-7	30	
4-Bromophenyl-phenylether	80.00000	74.11520	ng	-7	30	
Hexachlorobenzene	80.00000	73.13490	ng	-9	30	
Pentachlorophenol	80.00000	79.49910	ng	-1	20	
Phenanthrene	80.00000	74.25690	ng	-7	30	
Anthracene	80.00000	71.19520	ng	-11	30	
Carbazole	80.00000	34.62340	ng	-57	30	v- ***
Di-n-butylphthalate	80.00000	69.14470	ng	-14	30	
Fluoranthene	80.00000	71.01300	ng	-11	20	
Benzidine	80.00000	19.72460	ng	-75	40	v- *** NT
Pyrene	80.00000	66.88040	ng	-16	30	
Butylbenzylphthalate	80.00000	70.84330	ng	-11	30	
3,3'-Dichlorobenzidine	80.00000	56.24340	ng	-30	40	
Benzo(a)anthracene	80.00000	70.01910	ng	-12	30	
bis(2-Ethylhexyl)phthalate	80.00000	72.40600	ng	-9	30	
Chrysene	80.00000	70.60730	ng	-12	30	
Di-n-octylphthalate	80.00000	73.36360	ng	-8	20	
Benzo(b)fluoranthene	80.00000	72.29630	ng	-10	30	
Benzo(k)fluoranthene	80.00000	70.88520	ng	-11	30	
Benzo(a)pyrene	80.00000	76.90790	ng	-4	20	
Indeno(1,2,3-cd)pyrene	80.00000	69.54010	ng	-13	30	
Dibenz(a,h)anthracene	80.00000	75.30250	ng	-6	30	
Benzo(g,h,i)perylene	80.00000	65.29060	ng	-18	30	
2-Fluorophenol	80.00000	73.88980	ng	-8	30	
Phenol-d5	80.00000	72.39490	ng	-10	30	
Nitrobenzene-d5	80.00000	72.28690	ng	-10	30	
2-Fluorobiphenyl	80.00000	72.48030	ng	-9	30	
2,4,6-Tribromophenol	80.00000	73.89030	ng	-8	30	
Terphenyl-d14	80.00000	67.63020	ng	-15	30	

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV

7/13/04

!=warning +=high bias -=low bias m=manual integration v=ICV

7/13/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544335173002
Calnum : 544280054001
Standards: 04WS1379

Run Name :
Filename : xhj02
Caldate : 12-JUL-2004

IDF : 1.0
Injected : 19-AUG-2004 18:35
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5167	0.6153	50.00000	59.54640	ng	19	30	0.0500	
Pyridine	1.4694	1.7921	50.00000	60.97930	ng	22	30	0.0500	!c+
Phenol	1.9038	2.1504	50.00000	56.47480	ng	13	20	0.0500	
Aniline	0.7265	1.0133	50.00000	69.73700	ng	39	30	0.0500	c+ ***
bis(2-Chloroethyl)ether	1.2541	1.3836	50.00000	55.16010	ng	10	30	0.0500	
2-Chlorophenol	1.4200	1.4816	50.00000	52.16950	ng	4	30	0.0500	
1,3-Dichlorobenzene	1.5902	1.6183	50.00000	50.88540	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.6000	1.6243	50.00000	50.76110	ng	2	20	0.0500	
Benzyl alcohol	0.9120	1.0045	50.00000	55.07100	ng	10	30	0.0500	
1,2-Dichlorobenzene	1.4563	1.5278	50.00000	52.45310	ng	5	30	0.0500	
2-Methylphenol	1.0632	1.1345	50.00000	53.35290	ng	7	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9608	2.5512	50.00000	65.05290	ng	30	30	0.0500	!c+
4-Methylphenol	1.6466	1.7626	50.00000	53.52050	ng	7	30	0.0500	
N-Nitroso-di-n-propylamine	0.8266	0.9684	50.00000	58.57560	ng	17	30	0.0500	
Hexachloroethane	0.5963	0.6377	50.00000	53.47740	ng	7	30	0.0500	
Nitrobenzene	0.3885	0.4527	50.00000	58.26200	ng	17	30	0.0500	
Isophorone	0.7594	0.8484	50.00000	55.85980	ng	12	30	0.0500	
2-Nitrophenol	0.2011	0.2183	50.00000	54.26990	ng	9	20	0.0500	
2,4-Dimethylphenol	0.2980	0.2808	50.00000	47.12850	ng	-6	30	0.0500	
bis(2-Chloroethoxy)methane	0.4755	0.5295	50.00000	55.67530	ng	11	30	0.0500	
Benzoic acid	0.1957	0.1472	50.00000	37.83200	ng	-24	40	0.0500	
2,4-Dichlorophenol	0.3285	0.3351	50.00000	51.00330	ng	2	20	0.0500	
1,2,4-Trichlorobenzene	0.3414	0.3748	50.00000	54.88830	ng	10	30	0.0500	
Naphthalene	1.1220	1.1390	50.00000	50.75780	ng	2	30	0.0500	
4-Chloroaniline	0.4449	0.4527	50.00000	50.87960	ng	2	30	0.0500	
Hexachlorobutadiene	0.1967	0.2231	50.00000	56.70710	ng	13	20	0.0500	
4-Chloro-3-methylphenol	0.3308	0.3393	50.00000	51.27990	ng	3	20	0.0500	
2-Methylnaphthalene	0.7549	0.7592	50.00000	50.28670	ng	1	30	0.0500	
Hexachlorocyclopentadiene	0.2770	0.2927	50.00000	52.82430	ng	6	40	0.0500	
2,4,6-Trichlorophenol	0.4062	0.4168	50.00000	51.30840	ng	3	20	0.0500	
2,4,5-Trichlorophenol	0.4166	0.4277	50.00000	51.34080	ng	3	30	0.0500	
2-Chloronaphthalene	1.1513	1.2545	50.00000	54.48260	ng	9	30	0.0500	
2-Nitroaniline	0.3940	0.4816	50.00000	61.11440	ng	22	30	0.0500	!c+
Dimethylphthalate	1.4896	1.4798	50.00000	49.67060	ng	-1	30	0.0500	
2,6-Dinitrotoluene	0.3246	0.3258	50.00000	50.17590	ng	0	30	0.0500	
Acenaphthylene	1.9079	1.9643	50.00000	51.47710	ng	3	30	0.0500	
3-Nitroaniline	0.3426	0.3778	50.00000	55.14450	ng	10	30	0.0500	
Acenaphthene	1.1528	1.2490	50.00000	54.17050	ng	8	20	0.0500	
2,4-Dinitrophenol	0.1735	0.1812	50.00000	49.97230	ng	0	40	0.0500	
4-Nitrophenol	0.1557	0.1543	50.00000	49.56160	ng	-1	40	0.0500	
Dibenzofuran	1.7347	1.7690	50.00000	50.99060	ng	2	30	0.0500	
2,4-Dinitrotoluene	0.4292	0.4399	50.00000	51.24490	ng	2	30	0.0500	
Diethylphthalate	1.4000	1.3999	50.00000	49.99540	ng	0	30	0.0500	
Fluorene	1.4440	1.3670	50.00000	47.33310	ng	-5	30	0.0500	
4-Chlorophenyl-phenylether	0.6860	0.6937	50.00000	50.56570	ng	1	40	0.0500	
4-Nitroaniline	0.2962	0.3534	50.00000	59.65210	ng	19	30	0.0500	

!=warning +=high bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

08/19/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544335173002
Calnum : 544280054001
Standards: 04WS1379

Run Name :
Filename : xhj02
Caldate : 12-JUL-2004

IDF : 1.0
Injected : 19-AUG-2004 18:35
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1303	0.1393	50.00000	53.45940	ng	7	30	0.0500	
N-Nitrosodiphenylamine	0.5408	0.5122	50.00000	47.35590	ng	-5	20	0.0500	
Azobenzene	0.8089	0.9458	50.00000	58.45860	ng	17	30	0.0500	
4-Bromophenyl-phenylether	0.2406	0.2452	50.00000	50.97160	ng	2	30	0.0500	
Hexachlorobenzene	0.2745	0.2621	50.00000	47.75190	ng	-4	30	0.0500	
Pentachlorophenol	0.1727	0.1540	50.00000	44.59740	ng	-11	20	0.0500	
Phenanthrene	1.1649	1.1463	50.00000	49.20000	ng	-2	30	0.0500	
Anthracene	1.1557	1.1945	50.00000	51.67720	ng	3	30	0.0500	
Carbazole	0.9125	0.9102	50.00000	49.87170	ng	0	30	0.0500	
Di-n-butylphthalate	1.4460	1.3656	50.00000	47.21880	ng	-6	30	0.0500	
Fluoranthene	1.3676	1.3261	50.00000	48.48330	ng	-3	20	0.0500	
Benzidine	0.0445	0.1517	50.00000	170.5218	ng	241	40	0.0500	c+ irf
Pyrene	1.4641	1.5385	50.00000	52.54090	ng	5	30	0.0500	
Butylbenzylphthalate	0.6887	0.6880	50.00000	49.94660	ng	0	30	0.0500	
3,3'-Dichlorobenzidine	0.4425	0.4931	50.00000	55.71780	ng	11	40	0.0500	
Benzo(a)anthracene	1.3743	1.4543	50.00000	52.90870	ng	6	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0029	0.9300	50.00000	46.36390	ng	-7	30	0.0500	
Chrysene	1.2777	1.3067	50.00000	51.13300	ng	2	30	0.0500	
Di-n-octylphthalate	2.0940	1.8145	50.00000	43.32570	ng	-13	20	0.0500	
Benzo(b)fluoranthene	1.8210	1.8613	50.00000	49.24050	ng	-2	30	0.0500	
Benzo(k)fluoranthene	1.3407	1.3154	50.00000	49.05650	ng	-2	30	0.0500	
Benzo(a)pyrene	1.3322	1.3388	50.00000	50.24560	ng	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4451	1.5790	50.00000	54.63180	ng	9	30	0.0500	
Dibenz(a,h)anthracene	1.1671	1.2464	50.00000	53.39890	ng	7	30	0.0500	
Benzo(g,h,i)perylene	1.1159	1.3186	50.00000	59.08560	ng	18	30	0.0500	
2-Fluorophenol	1.3315	1.5256	50.00000	57.28850	ng	15	30	0.0500	
Phenol-d5	1.8510	2.0026	50.00000	54.09530	ng	8	30	0.0500	
Nitrobenzene-d5	0.4011	0.4779	50.00000	59.58070	ng	19	30	0.0500	
2-Fluorobiphenyl	1.2768	1.3966	50.00000	54.69230	ng	9	30	0.0500	
2,4,6-Tribromophenol	0.2464	0.2558	50.00000	51.91920	ng	4	30	0.0500	
Terphenyl-d14	1.0860	1.1368	50.00000	52.33760	ng	5	30	0.0500	

8/19/

!=warning +=high bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 19-AUG-2004
Sequence: 544335173 (xhj)
Instrument ID: MSBNA05

CCV Filename: xhj02
Date Analyzed: 19-AUG-2004
Time Analyzed: 18:35

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	393283	5.66	1430791	7.14	785645	9.28	1436157	11.09	1283349	14.39	1265914	16.90
LOWER LIMIT	196642	5.16	715396	6.64	392823	8.78	718079	10.59	641675	13.90	632957	16.40
UPPER LIMIT	786566	6.16	2861582	7.64	1571290	9.78	2872314	11.59	2566698	14.90	2531828	17.40

TYPE	SAMPLE	#												
CCV		002	393283	5.66	1430791	7.14	785645	9.28	1436157	11.09	1283349	14.40	1265914	16.90
BLANK	QC261832	003	422658	5.66	1500218	7.13	855010	9.28	1461776	11.08	1479460	14.38	1421120	16.89
LCS	QC261833	004	397506	5.66	1439158	7.14	820165	9.28	1457436	11.09	1332011	14.39	1326363	16.90
SAMPLE	174107-002	005	417024	5.66	1424611	7.13	853735	9.28	1463877	11.08	1427703	14.38	1336709	16.89
SAMPLE	174107-003	006	405126	5.66	1404003	7.13	843085	9.28	1448701	11.08	1401027	14.38	1248459	16.88
SAMPLE	174092-001	007	406354	5.66	1469331	7.13	834702	9.28	1423883	11.08	1397921	14.38	1267667	16.89
MSS	174074-001	008	406600	5.66	1490450	7.13	831930	9.28	1416941	11.09	1359673	14.39	1228208	16.91
MS	QC261834	009	395667	5.66	1445542	7.14	828605	9.29	1452708	11.09	1318869	14.40	1201752	16.92
MSD	QC261835	010	383077	5.66	1401501	7.14	798559	9.28	1393722	11.09	1286106	14.39	1138238	16.91
SAMPLE	174092-002	011	404435	5.66	1468042	7.13	790016	9.28	1391402	11.09	1121659	14.42	515611*	16.97
SAMPLE	174107-001	012	396065	5.66	1403106	7.14	791724	9.28	1420515	11.09	1199303	14.38	576095*	16.90
SAMPLE	174092-003	013	399494	5.66	1442252	7.13	793055	9.28	1386512	11.09	969251	14.41	380672*	16.94

* = Outside QC Limits

MSBNA05 8270 Calibration

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 544280054 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 12-JUL-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	xgc01	TUN	DFTPP 50NG			12-JUL-2004 11:34	1.0						1	
002	xgc02	TUN	DFTPP 50NG			12-JUL-2004 11:47	1.0						1	
003	xgc03	TUN	DFTPP 50NG			12-JUL-2004 12:38	1.0						1	
004	xgc04	TUN	DFTPP 50NG			12-JUL-2004 13:01	1.0	1					1 t	
005	xgc05	TUN	DFTPP 50NG			12-JUL-2004 13:46	1.0						1	
007	xgc07	ICAL	2ug/ml ICAL			12-JUL-2004 15:39	1.0						2	
008	xgc08	ICAL	10ug/ml ICAL			12-JUL-2004 16:17	1.0						3	
009	xgc09	ICAL	20ug/ml ICAL			12-JUL-2004 16:55	1.0						4	
010	xgc10	ICAL	50ug/ml ICAL			12-JUL-2004 17:33	1.0						5	
011	xgc11	ICAL	80ug/ml ICAL			12-JUL-2004 18:12	1.0						6	
012	xgc12	ICAL	120ug/ml ICA			12-JUL-2004 18:50	1.0						7	
013	xgc13	ICAL	160ug/ml ICA			12-JUL-2004 19:28	1.0						8	
014	xgc14	ICV	80ug/ml ICV			12-JUL-2004 20:07	1.0	3		1			9	

190

ICAL: Ok except Benzidine fails - ND
ICV: Ok except 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail 8D
- Benzoic Acid ↑ fails warning limits

Stds used: 1=04WS1200 2=04WS1164 3=04WS1165 4=04WS1166 5=04WS1167 6=04WS1168 7=04WS1169 8=04WS1170 9=04WS1163
Flags used: t=tune failure

Analyst: [signature] Date: 7/13/04 [signature] 7/13/04
Page 1 of 1

(-1) MB/LCS/MS/MSD

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 544335173 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 19-AUG-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xhj01	TUN	NP NL			19-AUG-2004 18:13	1.0	1.0				1	
002	xhj02	CCV				19-AUG-2004 18:35	1.0	1.0	2		1	2	1:BZD=170.522
003	xhj03	BLANK	QC261832	93906	Soil	19-AUG-2004 20:37	1.0	0.03286	1		1	3	
004	xhj04	LCS	QC261833	93906	Soil	19-AUG-2004 21:15	1.0	0.03338	3		1	3	
005	xhj05	SAMPLE	174107-002	93906	Soil	19-AUG-2004 21:53	1.0	0.03362			1	3	
006	xhj06	SAMPLE	174107-003	93906	Soil	19-AUG-2004 22:30	1.0	0.03383			1	3	
007	xhj07	SAMPLE	174092-001	93906	Soil	19-AUG-2004 23:07	1.0	0.03295			1	3	
008	xhj08	MSS	174074-001	93906	Soil	19-AUG-2004 23:44	1.0	0.03359	1		1	3	
009	xhj09	MS	QC261834	93906	Soil	20-AUG-2004 00:21	1.0	0.03362	3	1	1	3	
010	xhj10	MSD	QC261835	93906	Soil	20-AUG-2004 00:59	1.0	0.03332	3	1	1	3	
011	xhj11	SAMPLE	174092-002	93906	Soil	20-AUG-2004 01:36	1.0	0.03332			1	3	
012	xhj12	SAMPLE	174107-001	93906	Soil	20-AUG-2004 02:13	1.0	0.03359			1	3	
013	xhj13	SAMPLE	174092-003	93906	Soil	20-AUG-2004 02:51	1.0	0.03344			1	3	

191

* ICAL: Benzidine failed - NT
* ICV: 4-Nitroaniline ↓ / Carbazole ↓ / Benzidine ↓
: Benzoic Acid ↑ warning limit
* CCV: Aniline ↑ / Benzidine ↑ - NT
: Pyridine ↑ / bis(2-Chloroisopropyl) ether ↑ / 2-Nitroaniline ↑ warning limit

Stds used: 1=04WS1543 2=04WS1379 3=04SS118

Analyst: [illegible] Date: 8/20/04 8/20/04

Page 1 of 1

REPORTING SUMMARY FOR 174074 8270 Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	2-NITROPHENOL	2,4-DIMETHYLPHENOL	BENZOIC ACID	BIS(2-CHLOROETHOXY)METHANE	2,4-DICHLOROPHENOL	1,2,4-TRICHLOROBENZENE	NAPHTHALENE	4-CHLOROANILINE	HEXACHLOROBUTADIENE	4-CHLORO-3-METHYLPHENOL	2-METHYLNAPHTHALENE	HEXACHLOROCYCLOPENTADIENE	2,4,6-TRICHLOROPHENOL	2,4,5-TRICHLOROPHENOL	2-CHLORONAPHTHALENE	2-NITROANILINE	DIMETHYL PHTHALATE	ACENAPHTHYLENE	2,6-DINITROTOLUENE	3-NITROANILINE	ACENAPHTHENE	2,4-DINITROPHENOL	4-NITROPHENOL	DIBENZOFURAN	2,4-DINITROTOLUENE	DIETHYLPHTHALATE	4-CHLOROPHENYL-PHENYLETHER	FLUORENE	4-NITROANILINE	4,6-DINITRO-2-METHYLPHENOL	N-NITROSODIPHENYLAMINE	4-BROMOPHENYL-PHENYLETHER	HEXACHLOROBENZENE	PENTACHLOROPHENOL	PHENANTHRENE	ANTHRACENE	DI-N-BUTYLPHTHALATE	FLUORANTHENE	BENZIDINE	PYRENE	BUTYLBENZYLPHTHALATE	3,3'-DICHLOROBENZIDINE	BENZO(A)ANTHRACENE	CHRYSENE	BIS(2-ETHYLHEXYL)PHTHALATE	DI-N-OCTYLPHTHALATE	BENZO(B)FLUORANTHENE	BENZO(K)FLUORANTHENE	BENZO(A)PYRENE	INDENO(1,2,3-CD)PYRENE
174074-001	MSBNA05	08/19/04 23:44	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261832	MSBNA05	08/19/04 20:37	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC261833	MSBNA05	08/19/04 21:15	1.0		+		+		+					+									+	+			+							+			+		+		+		+							+	+	+	+	+
QC261834	MSBNA05	08/20/04 00:21	1.0		+		+		+					+									+	+			+							+			+		+		+		+							+	+	+	+	+
QC261835	MSBNA05	08/20/04 00:59	1.0		+		+		+					+									+	+			+							+			+		+		+		+							+	+	+	+	+

Curtis & Tompkins Laboratories **Sample Preparation Summary** **19-AUG-2004 20:16**

Batch Number : 93906
Date Extracted: 19-AUG-2004
Extracted by : Coral E. Weese
Prep Method : 3550

Analysis : 8270
Bgroup : MSSVOA
Units : g
Clean-up :

Spike #1 ID : 04WS1487B
Spike #2 ID : 04WS1421A
Spike #3 ID : 04WS1454C
SOP Version : 8270s_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174074-001			Treadwell & Rollo	Soil	29.77	g	1	0.033591	1		1	0	0	8270		mss
174092-001			URS Corporation	Soil	30.35	g	1	0.032949	1		1	0	0	8270		
174092-002			URS Corporation	Soil	30.01	g	1	0.033322	1		1	0	0	8270		
174092-003			URS Corporation	Soil	29.9	g	1	0.033445	1		1	0	0	8270		
174107-001			URS Corporation	Soil	29.77	g	1	0.033591	1		1	0	0	8100		
174107-002			URS Corporation	Soil	29.74	g	1	0.033625	1		1	0	0	8100		
174107-003			URS Corporation	Soil	29.56	g	1	0.033829	1		1	0	0	8100		
QC261832	MB			Soil	30.43	g	1	0.032862	1		1	0	0	8270		
QC261833	LCS			Soil	29.96	g	1	0.033378	1		1	1	1	8270		
QC261834	MS	of 174074-001		Soil	29.70 ~~29.74~~	g	1	0.033625	1		1	1	1	8270		
QC261835	MSD	of 174074-001		Soil	30.01	g	1	0.033322	1		1	1	1	8270		

fixed in lims
LH 8/20/04

Prep Chemist: Coral Weese Reviewed By: [signature] Date: 8/19/04

Relinquished By: Coral Weese Received By: LH Date: 8/20/04

Curtis & Tompkins, Ltd. **8270 SOIL PREP LOG** BK 1976 page 23 of 100

LIMS Batch No: 939006 Extraction Method:

LIMS Analysis ~~M 8270~~ ☑ EPA 3550b Sonication

Extracted by: 8/19/04 CW MSSVOA ☐ EPA 3540c Soxhlet

Date Extracted: 8/19/04 ☐ Other _____

Cleanup Method (if necessary):

☐ EPA 3640a GPC

☐ EPA 3630c Silica Gel

☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
174074-001	29.77	1.0		MSS; filtered 2X
174092-001	30.35			
-002	30.01			
-003	29.90			
MB QC261882	30.43			
LCS 3	29.96			
MS 4	29.70			
MSD 5	30.01			
174107-001	29.77			
-002	29.74			
-003	29.56			

CW 8/19/04

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM433104ID	CW 8/19/04
Samples were dried with baked, CH_2Cl_2-rinsed ~~granular~~ powder Na_2SO_4	JTBA174SD	
1.0 mL of surrogate solution was added to all samples	04WS1487B	
1.0 mL of matrix spiking solution was added to all spikes	04WS1421A/04WS1454C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM44095	
Acetone	EM44085	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	JTBA174SD	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	NA	
Concentrated to final volumes as noted above	✓	

Initials

Date

Cw 8/19/04

Extraction Chemist / Date

Continued from page ___

Continued on page ___

8/19/04

Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. DA 1979

Continued From Page

Sample Id	Weight(g)	Analyses	Comments
MB	49.95	TEHM	EM43310410
LCS	49.68		
MS	49.99		174074-001
MSD	50.05		
173627-003A	30.07	TEH	QC-PE Sample
174074-001A	49.79	TEHM	MSS
174092-001A	49.89		
-002B	50.22		
-003C	50.02		
MB	30.43	8270	EM43310410
LCS	29.96		
MS	29.70		174074-001
MSD	30.01		
174074-001A	29.77		MSS
174092-001A	30.35		
-002B	30.01		
-003C	29.90		
MB	29.74	PCB	EM43310410
LCS	29.79		
MS	30.14		174092-003
MSD	30.33		
174092-003A	29.97		MSS
MB	30.44	8081	EM43310410
LCS	29.66		
MS	29.65		173867-002
MSD	30.46		
174092-003A	29.94		
173867-002C	30.38		MSS

SLC 8/19/04

Continued on Page

Read and Understood By

Signed: [illegible] Date: 8/19/04 Signed: Date:

PROJECT SOIL ASSESSMENT

Notebook No.

Continued From Page

SAMPLE ID

MB

LCS

MS SAMPLE

MSD

174107-001 (COMP	44.74	8100
	29.77	
174107-002	29.74	8100
174107-001	29.95	PCB
-002	30.07	
-001	29.79	8081
-002	29.94	
-002	49.92	TEH
-003	49.76	
-003	29.67	PCB
-003	30.22	8081
-003	29.56	8100

COMP A-D

COMP A-D

RD 8/19/04

Continued on Page

Read and Understood By

Jennifer Dell 8/19/04

Signed Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
Phenol	ug/Kg	04/18/03 32	04/16/03 34	04/16/03 28	04/16/03 34	04/18/03 22
2-Chlorophenol	ug/Kg	04/18/03 32	04/16/03 32	04/16/03 22	04/16/03 34	04/18/03 25
1,4-Dichlorobenzene	ug/Kg	04/18/03 28	04/16/03 27	04/16/03 26	04/16/03 30	04/18/03 20
N-Nitroso-di-n-propylamine	ug/Kg	04/18/03 24	04/16/03 25	04/16/03 20	04/16/03 25	04/18/03 21
1,2,4-Trichlorobenzene	ug/Kg	04/18/03 20	04/16/03 33	04/16/03 22	04/16/03 36	04/18/03 24
4-Chloro-3-methylphenol	ug/Kg	04/18/03 38	04/16/03 27	04/16/03 35	04/16/03 41	04/18/03 27
Acenaphthene	ug/Kg	04/18/03 23	04/16/03 23	04/25/03 14	04/16/03 28	04/24/03 10
4-Nitrophenol	ug/Kg	04/28/03 25	04/16/03 36	04/16/03 36	04/16/03 46	04/18/03 39
2,4-Dinitrotoluene	ug/Kg	04/18/03 28	04/16/03 43	04/16/03 21	04/16/03 41	04/18/03 28
Pentachlorophenol	ug/Kg	04/28/03 32	04/16/03 24	04/16/03 47	03/17/03 43	04/18/03 43
Pyrene	ug/Kg	04/18/03 28	04/16/03 21	04/25/03 11	04/16/03 29	04/24/03 9.9
N-Nitrosodimethylamine	ug/Kg	04/18/03 41	04/16/03 41	04/16/03 22	04/16/03 36	04/18/03 24
Pyridine	ug/Kg	04/18/03 22	04/16/03 31	04/16/03 21	04/16/03 21	04/24/03 22
Aniline	ug/Kg	04/18/03 36	04/16/03 25	04/16/03 35	04/16/03 34	04/18/03 35
bis(2-Chloroethyl)ether	ug/Kg	04/18/03 37	04/16/03 37	04/16/03 24	04/16/03 46	04/18/03 23
1,3-Dichlorobenzene	ug/Kg	04/18/03 27	04/16/03 24	04/16/03 24	04/16/03 37	04/18/03 20
Benzyl alcohol	ug/Kg	04/18/03 31	04/16/03 26	04/16/03 18	04/16/03 35	04/18/03 26
1,2-Dichlorobenzene	ug/Kg	04/18/03 37	04/16/03 23	04/16/03 25	04/16/03 32	04/18/03 18
2-Methylphenol	ug/Kg	04/18/03 26	04/16/03 36	04/16/03 25	04/16/03 45	04/18/03 21
bis(2-Chloroisopropyl) ether	ug/Kg	04/18/03 34	04/16/03 24	04/16/03 21	04/16/03 37	04/18/03 28
4-Methylphenol	ug/Kg	04/18/03 27	04/16/03 36	04/16/03 25	04/16/03 38	04/18/03 24
Hexachloroethane	ug/Kg	04/18/03 26	04/16/03 26	04/16/03 24	04/16/03 32	04/18/03 19
Nitrobenzene	ug/Kg	04/18/03 31	04/16/03 41	04/16/03 20	04/16/03 34	04/18/03 27
Isophorone	ug/Kg	04/18/03 19	05/02/03 27	04/16/03 18	04/16/03 30	04/18/03 21
2-Nitrophenol	ug/Kg	04/28/03 27	04/16/03 24	04/16/03 26	04/16/03 44	04/18/03 21
2,4-Dimethylphenol	ug/Kg	04/18/03 63	04/16/03 51	04/16/03 72	04/16/03 81	04/18/03 64
Benzoic acid	ug/Kg	04/28/03 49	04/16/03 210	04/16/03 200	04/16/03 150	04/18/03 250
bis(2-Chloroethoxy)methane	ug/Kg	04/18/03 30	04/16/03 25	04/16/03 22	04/16/03 37	04/18/03 24
2,4-Dichlorophenol	ug/Kg	04/18/03 31	04/16/03 24	04/16/03 25	04/16/03 38	04/18/03 28
Naphthalene	ug/Kg	04/18/03 24	05/02/03 30	04/16/03 22	04/16/03 33	04/18/03 20
4-Chloroaniline	ug/Kg	04/18/03 30	04/16/03 25	04/16/03 36	04/16/03 20	04/18/03 31
Hexachlorobutadiene	ug/Kg	04/18/03 29	04/16/03 32	04/16/03 23	04/16/03 42	04/18/03 24
2-Methylnaphthalene	ug/Kg	04/18/03 27	05/02/03 26	04/16/03 24	04/16/03 33	04/18/03 22
Hexachlorocyclopentadiene	ug/Kg	04/28/03 30	05/02/03 31	04/16/03 110	03/17/03 85	04/24/03 30
2,4,6-Trichlorophenol	ug/Kg	04/18/03 30	04/16/03 31	04/16/03 29	04/16/03 35	04/18/03 27
2,4,5-Trichlorophenol	ug/Kg	04/18/03 20	04/16/03 43	04/16/03 33	04/16/03 40	04/18/03 29
2-Chloronaphthalene	ug/Kg	04/18/03 29	04/16/03 22	04/16/03 20	04/16/03 28	04/18/03 18
2-Nitroaniline	ug/Kg	04/18/03 25	04/16/03 34	04/25/03 8.8	04/16/03 32	04/18/03 28
Dimethylphthalate	ug/Kg	04/18/03 34	04/16/03 28	04/16/03 26	04/16/03 37	04/18/03 26
Acenaphthylene	ug/Kg	04/18/03 27	04/16/03 11	04/25/03 14	04/16/03 27	04/18/03 22
2,6-Dinitrotoluene	ug/Kg	04/18/03 29	04/16/03 25	04/16/03 32	04/16/03 26	04/18/03 27
3-Nitroaniline	ug/Kg	04/18/03 21	04/16/03 20	04/25/03 16	03/17/03 18	04/24/03 13
2,4-Dinitrophenol	ug/Kg	04/18/03 170	04/16/03 220	04/16/03 200	04/16/03 210	04/18/03 320
Dibenzofuran	ug/Kg	04/18/03 22	05/02/03 30	04/16/03 24	04/16/03 33	04/18/03 24
Diethylphthalate	ug/Kg	04/18/03 24	04/16/03 29	04/16/03 27	04/16/03 36	04/18/03 27
Fluorene	ug/Kg	04/18/03 21	05/02/03 30	04/25/03 15	04/16/03 30	04/24/03 11
4-Chlorophenyl-phenylether	ug/Kg	04/18/03 31	04/16/03 26	04/16/03 25	04/16/03 46	04/18/03 25
4-Nitroaniline	ug/Kg	04/18/03 33	04/16/03 28	04/16/03 30	03/17/03 31	04/18/03 21
4,6-Dinitro-2-methylphenol	ug/Kg	04/18/03 240	04/16/03 230	04/16/03 230	04/16/03 360	04/18/03 260
N-Nitrosodiphenylamine	ug/Kg	04/18/03 23	04/16/03 17	04/16/03 34	04/16/03 44	04/18/03 26
Azobenzene	ug/Kg	04/18/03 19	05/02/03 26	04/16/03 29	04/16/03 46	04/18/03 28

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
4-Bromophenyl-phenylether	ug/Kg	04/18/03 40	04/16/03 29	04/16/03 25	04/16/03 47	04/18/03 25
Hexachlorobenzene	ug/Kg	04/18/03 24	04/16/03 25	04/16/03 25	04/16/03 43	04/18/03 24
Phenanthrene	ug/Kg	04/18/03 24	04/16/03 27	04/25/03 13	04/16/03 40	04/24/03 10
Anthracene	ug/Kg	04/18/03 28	05/02/03 32	04/25/03 14	04/16/03 37	04/24/03 10
Di-n-butylphthalate	ug/Kg	04/18/03 33	04/16/03 26	04/16/03 37	04/16/03 42	04/18/03 31
Fluoranthene	ug/Kg	04/18/03 31	05/02/03 31	04/25/03 12	04/16/03 48	04/24/03 13
Benzidine	ug/Kg	04/28/03 80	05/02/03 33			11/19/02 140
Butylbenzylphthalate	ug/Kg	04/18/03 31	04/16/03 28	04/16/03 28	04/16/03 20	04/18/03 34
3,3'-Dichlorobenzidine	ug/Kg	04/18/03 44	04/16/03 31	04/16/03 49	04/16/03 21	04/18/03 47
Benzo(a)anthracene	ug/Kg	04/18/03 23	05/02/03 28	04/25/03 11	04/16/03 26	04/18/03 29
Chrysene	ug/Kg	04/18/03 28	04/16/03 27	04/25/03 13	04/16/03 28	04/24/03 11
bis(2-Ethylhexyl)phthalate	ug/Kg	04/18/03 26	04/16/03 41	04/16/03 28	04/16/03 27	04/18/03 37
Di-n-octylphthalate	ug/Kg	04/18/03 21	04/16/03 33	04/16/03 29	04/16/03 22	04/18/03 31
Benzo(b)fluoranthene	ug/Kg	04/18/03 21	05/02/03 26	04/25/03 12	04/16/03 28	04/18/03 25
Benzo(k)fluoranthene	ug/Kg	04/18/03 27	05/02/03 32	04/25/03 9.2	04/16/03 35	04/24/03 10
Benzo(a)pyrene	ug/Kg	04/28/03 21	05/02/03 32	04/25/03 11	04/16/03 32	04/24/03 9.8
Indeno(1,2,3-cd)pyrene	ug/Kg	04/18/03 31	05/02/03 31	04/25/03 14	04/16/03 24	04/24/03 9.7
Dibenz(a,h)anthracene	ug/Kg	04/28/03 21	05/02/03 33	04/25/03 14	04/16/03 27	04/24/03 10
Benzo(g,h,i)perylene	ug/Kg	04/18/03 24	05/02/03 28	04/25/03 14	04/16/03 28	04/24/03 10

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX116[0.5]	Batch#:	93856
Lab ID:	174074-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	dry	Analyzed:	08/24/04
Diln Fac:	2.000		

Moisture: 12%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	3.8	1.4
beta-BHC	ND	3.8	1.1
gamma-BHC	ND	3.8	1.4
delta-BHC	ND	3.8	1.4
Heptachlor	ND	3.8	1.3
Aldrin	ND	3.8	1.3
Heptachlor epoxide	ND	3.8	1.5
Endosulfan I	ND	3.8	1.7
Dieldrin	ND	7.4	3.4
4,4'-DDE	ND	7.4	3.5
Endrin	ND	7.4	3.6
Endosulfan II	ND	7.4	3.6
Endosulfan sulfate	ND	7.4	3.9
4,4'-DDD	ND	7.4	3.3
Endrin ketone	ND	7.4	2.8
4,4'-DDT	ND	7.4	3.9
Chlordane (Technical)	ND	68	6.9
alpha-Chlordane	ND	3.8	1.6
gamma-Chlordane	ND	3.8	1.6
Methoxychlor	ND	38	22
Toxaphene	ND	140	24

Surrogate	%REC	Limits
TCMX	104	65-135
Decachlorobiphenyl	133	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261642	Batch#:	93856
Matrix:	Soil	Prepared:	08/18/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.50
Endosulfan I	ND	1.7	0.90
Dieldrin	ND	3.3	0.64
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.96
Endosulfan sulfate	ND	3.3	0.78
4,4'-DDD	ND	3.3	0.68
Endrin ketone	ND	3.3	0.82
4,4'-DDT	ND b	3.3	1.2
Chlordane (Technical)	ND	30	3.8
alpha-Chlordane	ND	1.7	0.50
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND b	17	2.7
Toxaphene	ND	60	12

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	92	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC261643	Batch#:	93856
Matrix:	Soil	Prepared:	08/18/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.64	14.36	86	65-135
Heptachlor	16.64	16.48	99	65-135
Aldrin	16.64	14.88	89	65-135
Dieldrin	16.64	16.57	100	65-135
Endrin	16.64	17.48	105	65-135
4,4'-DDT	16.64	18.21 b	109	65-135

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	91	65-135

b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	93856
MSS Lab ID:	174056-010	Sampled:	08/17/04
Matrix:	Soil	Received:	08/17/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	as received	Analyzed:	08/19/04
Diln Fac:	2.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC261644

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.7300	16.55	17.06	103	65-135
Heptachlor	<0.9800	16.55	18.97	115	65-135
Aldrin	<0.8200	16.55	16.84	102	65-135
Dieldrin	<1.300	16.55	17.61	106	65-135
Endrin	<1.300	16.55	18.55	112	65-135
4,4'-DDT	<2.400	16.55	17.03 b	103	65-135

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	96	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC261645

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.71	16.57	99	65-135	4	35
Heptachlor	16.71	18.10	108	65-135	6	35
Aldrin	16.71	15.78	94	65-135	8	35
Dieldrin	16.71	16.19	97	65-135	9	35
Endrin	16.71	17.07	102	65-135	9	35
4,4'-DDT	16.71	15.95 b	95	65-135	8	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	86	65-135

b= See narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234332698001 Name: Type: (normal) Date: 18-AUG-2004 01:59 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	230_017	234332698017	level_1	18-AUG-2004 01:59	04WS1513
2	230_018	234332698018	level_2	18-AUG-2004 02:29	04WS1512
3	230_019	234332698019	level_3	18-AUG-2004 03:00	04WS1511
4	230_020	234332698020	level_4	18-AUG-2004 03:31	04WS1434
5	230_021	234332698021	level_5	18-AUG-2004 04:01	04WS1509
6	230_022	234332698022	level_6	18-AUG-2004 04:32	04WS1508
7	230_023	234332698023	level_7	18-AUG-2004 05:03	04WS1507

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	11334	9844.5	13038	12436	13617	13670	13198	AVRG	R		8.033E-5		pg	12448	11	0.995	20	
gamma-BHC	A	11467	9762.8	12766	11771	12720	12547	12023	AVRG	R		8.428E-5		pg	11865	9	0.995	20	
beta-BHC	A	8941.5	6572.4	7389.3	6214.8	6576.2	6212.1	5901.6	AVRG	R		1.464E-4		pg	6829.7	15	0.995	20	
delta-BHC	A	15106	10591	12548	11086	12366	12127	11912	AVRG	R		8.165E-5		pg	12248	12	0.995	20	
Heptachlor	A	12253	9920.9	12465	10994	11275	10768	10258	AVRG	R		8.982E-5		pg	11134	9	0.995	20	
Aldrin	A	12548	10098	12070	10644	11469	10874	10403	AVRG	R		8.962E-5		pg	11158	8	0.995	20	
Heptachlor epoxide	A	14819	11586	13235	11049	11653	10136	9746.0	AVRG	R		8.513E-5		pg	11746	15	0.995	20	
gamma-Chlordane	A	14699	11344	13098	10858	11690	10287	10246	AVRG	R		8.514E-5		pg	11746	14	0.995	20	
alpha-Chlordane	A	14099	11306	12705	10889	11526	10010	10060	AVRG	R		8.685E-5		pg	11514	13	0.995	20	
4,4'-DDE	A	14198	11221	12918	10518	11068	9186.7	9285.1	AVRG	R		8.929E-5		pg	11199	16	0.995	20	
Endosulfan I	A	14447	11267	12883	10851	11564	9931.2	9939.4	AVRG	R		8.654E-5		pg	11555	14	0.995	20	
Dieldrin	A	13010	10632	12362	10409	11052	9160.8	9042.2	AVRG	R		9.251E-5		pg	10810	14	0.995	20	
Endrin	A	11515	9143.5	11081	8883.9	9304.7	7710.9	7725.2	AVRG	R		1.071E-4		pg	9337.9	16	0.995	20	
4,4'-DDD	A	9809.5	7910.4	9495.6	7816.4	8651.2	7297.7	7524.7	AVRG	R		1.196E-4		pg	8357.9	12	0.995	20	
Endosulfan II	A	14137	10838	12221	9768.4	10279	8349.0	8382.9	AVRG	R		9.463E-5		pg	10568	20	0.995	20	
4,4'-DDT	A	5172.4	4536.8	7694.2	6663.4	6967.0	6430.2	7238.0	AVRG	R		1.566E-4		pg	6386.0	18	0.995	20	
Endrin aldehyde	A	13765	9584.0	10013	7613.9	8554.4	6935.2	6976.0	AVRG	R		1.103E-4		pg	9063.0	26	0.995	20	rsd ***
Methoxychlor	A	3570.5	2924.3	3898.4	2956.5	3006.5	2584.1	2574.8	AVRG	R		3.254E-4		pg	3073.6	16	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234332698001 Name: Type: (normal) Date: 18-AUG-2004 01:59 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	14490	10405	11446	8854.7	9392.2			AVRG	R		9.159E-5		pg	10918	20	0.995	20	
Endrin ketone	A	13080	11159	12982	10128	10966	9052.8	8840.1	AVRG	R		9.185E-5		pg	10887	16	0.995	20	
TCMX	A	13264	10514	11822	10235	10363	9480.2	8609.4	AVRG	R		9.423E-5		pg	10613	14	0.995	20	
Decachlorobiphenyl	A		12053	12621	10371	9538.9	8005.4		AVRG	R		9.508E-5		pg	10518	18	0.995	20	
alpha-BHC	B	30937	26403	32912	30140	32360	31668	30796	AVRG	R		3.253E-5		pg	30745	7	0.995	20	
gamma-BHC	B	30310	24833	30429	26809	28559	27624	26848	AVRG	R		3.582E-5		pg	27916	7	0.995	20	
beta-BHC	B	22196	15756	16662	13489	14030	12916	12274	AVRG	R		6.522E-5		pg	15332	22	0.995	20	rsd ***
delta-BHC	B	44280	28696	30675	25514	27698	26341	25612	AVRG	R		3.352E-5		pg	29831	22	0.995	20	rsd ***
Heptachlor	B	22344	17716	20539	17650	18008	17174	16727	AVRG	R		5.378E-5		pg	18594	11	0.995	20	
Aldrin	B	30021	24447	28802	24942	26625	24920	24067	AVRG	R		3.808E-5		pg	26261	9	0.995	20	
Heptachlor epoxide	B	30916	23715	25985	21772	22674	19860	19619	AVRG	R		4.254E-5		pg	23506	17	0.995	20	
gamma-Chlordane	B	33869	25981	29260	24333	25824	22756	23602	AVRG	R		3.771E-5		pg	26518	15	0.995	20	
alpha-Chlordane	B	34548	26275	29445	24228	25642	22202	23092	AVRG	R		3.775E-5		pg	26490	16	0.995	20	
4,4'-DDE	B	26474	21621	25996	21867	23381	19907	17943	AVRG	R		4.453E-5		pg	22455	14	0.995	20	
Endosulfan I	B	30623	23246	26130	21720	22946	19578	19999	AVRG	R		4.262E-5		pg	23463	16	0.995	20	
Dieldrin	B	27980	22164	25788	21134	22229	18749	17801	AVRG	R		4.492E-5		pg	22264	16	0.995	20	
Endrin	B	22994	17333	20651	16201	17026	14303	15173	AVRG	R		5.660E-5		pg	17669	18	0.995	20	
4,4'-DDD	B	17600	13273	15839	12671	13953	11909	12901	AVRG	R		7.132E-5		pg	14021	14	0.995	20	
Endosulfan II	B	30055	21442	23657	18802	19774			AVRG	R		4.396E-5		pg	22746	20	0.995	20	
4,4'-DDT	B	8670.7	7425.7	11372	9815.5	10257	9547.6	11271	AVRG	R		1.024E-4		pg	9765.7	14	0.995	20	
Endrin aldehyde	B	25553	17890	19094	14149	15738	12981	13647	AVRG	R		5.880E-5		pg	17007	26	0.995	20	rsd ***
Methoxychlor	B	4909.2	3828.4	5066.6	3863.3	4020.6	3715.6	3461.8	AVRG	R		2.425E-4		pg	4123.7	15	0.995	20	
Endosulfan sulfate	B	28458	20044	21405	16554	17477	14579	15238	AVRG	R		5.233E-5		pg	19108	25	0.995	20	rsd ***
Endrin ketone	B	25928	19667	21699	17013	18237	15470	16002	AVRG	R		5.223E-5		pg	19145	19	0.995	20	
TCMX	B	30081	23460	25609	22090	22444	20758	19302	AVRG	R		4.275E-5		pg	23392	15	0.995	20	
Decachlorobiphenyl	B		18148	19820	16062	14693	13152	12778	AVRG	R		6.339E-5		pg	15776	18	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	15		20	
EPA 8081A	B	22	16		20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	232_014	804335061014	level_1	19-AUG-2004 22:41	04WS1513
2	232_015	804335061015	level_2	19-AUG-2004 23:10	04WS1512
3	232_016	804335061016	level_3	19-AUG-2004 23:40	04WS0927
4	232_017	804335061017	level_4	20-AUG-2004 00:09	04WS1434
5	232_018	804335061018	level_5	20-AUG-2004 00:38	04WS1509
6	232_019	804335061019	level_6	20-AUG-2004 01:08	04WS1508
7	232_020	804335061020	level_7	20-AUG-2004 01:37	04WS1507

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	21785	16650	18574	16306	15606	16405	16786	AVRG	R		5.732E-5		pg	17444	12	0.995	20	
gamma-BHC	A	20021	15125	16914	14674	13955	14361	15023	AVRG	R		6.359E-5		pg	15725	13	0.995	20	
beta-BHC	A	9482.5	6836.9	7419.4	6279.6	5889.2	5684.9	5762.7	AVRG	R		1.478E-4		pg	6765.0	20	0.995	20	
delta-BHC	A	23631	16068	17265	14919	13978	14341	14987	AVRG	R		6.077E-5		pg	16456	20	0.995	20	
Heptachlor	A	17428	13383	15081	13257	12502	12881	13538	AVRG	R		7.138E-5		pg	14010	12	0.995	20	
Aldrin	A	18258	13951	15262	13406	12739	12957	13491	AVRG	R		6.995E-5		pg	14295	14	0.995	20	
Heptachlor epoxide	A	17194	12996	14081	12346	11669	11632	11996	AVRG	R		7.616E-5		pg	13130	15	0.995	20	
gamma-Chlordane	A	18008	13185	14052	12436	11779	11886	12418	AVRG	R		7.466E-5		pg	13395	16	0.995	20	
alpha-Chlordane	A	16632	12561	13573	11903	11256	11277	11806	AVRG	R		7.865E-5		pg	12715	15	0.995	20	
4,4'-DDE	A	15271	11686	12856	11842	11232	11691	10815	AVRG	R		8.198E-5		pg	12199	12	0.995	20	
Endosulfan I	A	15959	12033	13113	11327	10635	10549	10968	AVRG	R		8.276E-5		pg	12083	16	0.995	20	
Dieldrin	A	16279	12416	13592	12305	11775	12000	11065	AVRG	R		7.827E-5		pg	12776	13	0.995	20	
Endrin	A	13575	10207	11619	9984.8	9386.3	9801.5	9312.6	AVRG	R		9.474E-5		pg	10555	15	0.995	20	
4,4'-DDD	A	12433	9338.1	10254	9361.4	8772.3	9253.9	8822.5	AVRG	R		1.026E-4		pg	9747.9	13	0.995	20	
Endosulfan II	A	14959	10910	11650	10404	9807.4	10081	9444.4	AVRG	R		9.061E-5		pg	11037	17	0.995	20	
4,4'-DDT	A	12781	9342.6	10458	9580.1	8903.0	9463.3	9095.0	AVRG	R		1.005E-4		pg	9946.1	14	0.995	20	
Endrin aldehyde	A	15806	9637.4	9084.3	8061.2	7605.3	7620.6	7520.2	AVRG	R		1.071E-4		pg	9333.6	32	0.995	20	rsd ***
Methoxychlor	A	5315.4	4028.8	4627.5	4350.2	3960.9	3596.0	2956.7	AVRG	R		2.428E-4		pg	4119.4	18	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	14853	9984.0	10329	9021.7	8332.8	8679.4	8595.9	AVRG	R		1.003E-4		pg	9970.7	23	0.995	20	rsd ***
Endrin ketone	A	15806	11246	11993	10822	10103	10258	9419.6	AVRG	R		8.789E-5		pg	11378	19	0.995	20	
TCMX	A	14324	10908	12100	10650	9926.3	10344	10186	AVRG	R		8.924E-5		pg	11206	14	0.995	20	
Decachlorobiphenyl	A	8570.5	6368.6	7915.2	7254.3	5798.8	5816.4	6301.1	AVRG	R		1.458E-4		pg	6860.7	16	0.995	20	
alpha-BHC	B	22588	15820	20445	18627	16802	17270	18773	AVRG	R		5.371E-5		pg	18618	12	0.995	20	
gamma-BHC	B	20986	14609	18610	16859	14979	15133	16798	AVRG	R		5.934E-5		pg	16853	14	0.995	20	
beta-BHC	B	10283	6859.4	8474.5	7426.7	6498.9	6182.9	7047.9	AVRG	R		1.326E-4		pg	7539.0	19	0.995	20	
delta-BHC	B	24673	15697	19119	17288	14969	15316	16704	AVRG	R		5.656E-5		pg	17681	19	0.995	20	
Heptachlor	B	12854	9300.3	12493	11976	10463	10771	13153	AVRG	R		8.641E-5		pg	11573	12	0.995	20	
Aldrin	B	19672	13740	17116	15600	13879	13771	15255	AVRG	R		6.420E-5		pg	15576	14	0.995	20	
Heptachlor epoxide	B	18541	12924	15789	14365	12625	12276	13605	AVRG	R		6.991E-5		pg	14304	15	0.995	20	
gamma-Chlordane	B	18678	13022	15898	14667	12779	12685	14132	AVRG	R		6.872E-5		pg	14552	15	0.995	20	
alpha-Chlordane	B	18198	12714	15277	14056	12177	11939	13398	AVRG	R		7.160E-5		pg	13966	16	0.995	20	
4,4'-DDE	B	16804	11774	14585	14146	12207	12034	11874	AVRG	R		7.493E-5		pg	13346	14	0.995	20	
Endosulfan I	B	17124	11985	14436	13279	11477	11219	12542	AVRG	R		7.604E-5		pg	13152	16	0.995	20	
Dieldrin	B	17837	12369	15313	14518	12550	12253	11990	AVRG	R		7.229E-5		pg	13833	16	0.995	20	
Endrin	B	13137	9164.3	11997	10776	9000.4	9271.3	9444.5	AVRG	R		9.617E-5		pg	10399	16	0.995	20	
4,4'-DDD	B	13546	9500.7	11551	11161	9215.5	9520.3	9541.1	AVRG	R		9.455E-5		pg	10577	15	0.995	20	
Endosulfan II	B	16186	10854	12991	12312	10228	10420	10247	AVRG	R		8.410E-5		pg	11891	18	0.995	20	
4,4'-DDT	B	11716	8301.3	10461	10345	8412.4	8872.1	9169.9	AVRG	R		1.040E-4		pg	9610.9	13	0.995	20	
Endrin aldehyde	B	16239	9420.0	10134	9446.9	7767.0	7892.7	8178.6	AVRG	R		1.013E-4		pg	9868.4	30	0.995	20	rsd ***
Methoxychlor	B	5014.2	3527.3	4494.2	4646.7	3586.1	3334.3	2882.9	AVRG	R		2.547E-4		pg	3926.5	20	0.995	20	
Endosulfan sulfate	B	16271	10225	11667	11124	8909.4	9335.7	9672.1	AVRG	R		9.067E-5		pg	11029	23	0.995	20	rsd ***
Endrin ketone	B	16522	10734	12585	12224	9697.8	9871.6	9438.4	AVRG	R		8.634E-5		pg	11582	22	0.995	20	rsd ***
TCMX	B	15393	10725	13397	12177	10791	10867	11356	AVRG	R		8.264E-5		pg	12101	14	0.995	20	
Decachlorobiphenyl	B		6237.9	7953.2	7933.0	5312.6	5382.6	5756.4	AVRG	R		1.55SE-4		pg	6429.3	19	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	16		20	
EPA 8081A	B	22	17		20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234333910038 Run Name: Injected: 19-AUG-2004 14:23
Filename: 231_038 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	609007.5
4,4'-DDE	A	5498.15
4,4'-DDD	A	59838.14

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	446926.66
Endrin aldehyde	A	5326.48
Endrin ketone	A	24692.48

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1049803.99
4,4'-DDE	B	13399.85
4,4'-DDD	B	123380.02

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	950245.61
Endrin aldehyde	B	9920.38
Endrin ketone	B	67786.16

Endrin Breakdown %: 8
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234333910054 Run Name: Injected: 19-AUG-2004 23:19
Filename: 231_054 Standard(s): 04WS1389

Analyte	Ch	Area
4,4'-DDT	A	625412.78
4,4'-DDE	A	5156.39
4,4'-DDD	A	63096.58

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	461619.19
Endrin aldehyde	A	3307.71
Endrin ketone	A	16083.03

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1060173.23
4,4'-DDE	B	12295.61
4,4'-DDD	B	122859.35

4,4'-DDT Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	933605.04
Endrin aldehyde	B	10216.97
Endrin ketone	B	43652.02

Endrin Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804340530020 Run Name: Injected: 23-AUG-2004 22:25
Filename: 236_020 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	853123.37
4,4'-DDE	A	3700.62
4,4'-DDD	A	47524.71

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	456194.37
Endrin aldehyde	A	19399
Endrin ketone	A	33313.85

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	990380.55
4,4'-DDE	B	3881.93
4,4'-DDD	B	16389.77

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	496988.73
Endrin aldehyde	B	11552.09
Endrin ketone	B	10750.38

Endrin Breakdown %: 4
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804340530030 Run Name: Injected: 24-AUG-2004 03:19
Filename: 236_030 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	866233
4,4'-DDE	A	3613.31
4,4'-DDD	A	47230.66

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	450116.81
Endrin aldehyde	A	23786.66
Endrin ketone	A	35706

Endrin Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	957909.78
4,4'-DDE	B	4008
4,4'-DDD	B	19995.32

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	484336.97
Endrin aldehyde	B	18969.17
Endrin ketone	B	16619

Endrin Breakdown %: 7
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234333910039 Filename : 231_039 Injected : 19-AUG-2004 14:53
Calnum : 234332698001 Caldate : 18-AUG-2004 Caltype :
Standards: 04WS1434

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12448	12463	20.00000	20.02311	pg	0	15	
gamma-BHC	A	11865	11777	20.00000	19.85187	pg	-1	15	
beta-BHC	A	6829.7	6285.0	20.00000	18.40504	pg	-8	15	
delta-BHC	A	12248	11141	20.00000	18.19144	pg	-9	15	
Heptachlor	A	11134	10664	20.00000	19.15559	pg	-4	15	
Aldrin	A	11158	10939	20.00000	19.60772	pg	-2	15	
Heptachlor epoxide	A	11746	11405	20.00000	19.41870	pg	-3	15	
gamma-Chlordane	A	11746	11387	20.00000	19.38864	pg	-3	15	
alpha-Chlordane	A	11514	11093	20.00000	19.26930	pg	-4	15	
4,4'-DDE	A	11199	11060	40.00000	39.50267	pg	-1	15	
Endosulfan I	A	11555	11130	20.00000	19.26529	pg	-4	15	
Dieldrin	A	10810	10744	40.00000	39.75576	pg	-1	15	
Endrin	A	9337.9	9198.4	40.00000	39.40271	pg	-1	15	
4,4'-DDD	A	8357.9	8485.2	40.00000	40.60911	pg	2	15	
Endosulfan II	A	10568	10100	40.00000	38.23071	pg	-4	15	
4,4'-DDT	A	6386.0	5857.7	40.00000	36.69109	pg	-8	15	
Endrin aldehyde	A	9063.0	8038.9	40.00000	35.48008	pg	-11	15	rsd ***
Methoxychlor	A	3073.6	2763.6	200.0000	179.8293	pg	-10	15	
Endosulfan sulfate	A	10918	9342.7	40.00000	34.22953	pg	-14	15	
Endrin ketone	A	10887	10328	40.00000	37.94697	pg	-5	15	
TCMX	A	10613	10141	40.00000	38.22169	pg	-4	15	
Decachlorobiphenyl	A	10518	10245	40.00000	38.96134	pg	-3	15	
alpha-BHC	B	30745	31797	20.00000	20.68410	pg	3	15	
gamma-BHC	B	27916	28665	20.00000	20.53686	pg	3	15	
beta-BHC	B	15332	14430	20.00000	18.82388	pg	-6	15	rsd ***
delta-BHC	B	29831	27328	20.00000	18.32168	pg	-8	15	rsd ***
Heptachlor	B	18594	19715	20.00000	21.20543	pg	6	15	
Aldrin	B	26261	26866	20.00000	20.46097	pg	2	15	
Heptachlor epoxide	B	23506	24129	20.00000	20.53042	pg	3	15	
gamma-Chlordane	B	26518	26883	20.00000	20.27550	pg	1	15	
alpha-Chlordane	B	26490	26460	20.00000	19.97720	pg	0	15	
4,4'-DDE	B	22455	24088	40.00000	42.90851	pg	7	15	
Endosulfan I	B	23463	23910	20.00000	20.38115	pg	2	15	
Dieldrin	B	22264	23599	40.00000	42.39874	pg	6	15	
Endrin	B	17669	19076	40.00000	43.18663	pg	8	15	
4,4'-DDD	B	14021	15835	40.00000	45.17542	pg	13	15	
Endosulfan II	B	22746	21230	40.00000	37.33383	pg	-7	15	
4,4'-DDT	B	9765.7	9922.1	40.00000	40.64088	pg	2	15	
Endrin aldehyde	B	17007	15750	40.00000	37.04217	pg	-7	15	rsd ***
Methoxychlor	B	4123.7	4184.8	200.0000	202.9678	pg	1	15	
Endosulfan sulfate	B	19108	18540	40.00000	38.81213	pg	-3	15	rsd ***
Endrin ketone	B	19145	19716	40.00000	41.19257	pg	3	15	
TCMX	B	23392	22587	40.00000	38.62266	pg	-3	15	
Decachlorobiphenyl	B	15776	16769	40.00000	42.51956	pg	6	15	
Average EPA 8081A	A		(count=22)				5	15	
Average EPA 8081A	B		(count=22)				5	15	

rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_5 IDF : 1.0
Seqnum : 234333910057 Filename : 231_057 Injected : 20-AUG-2004 00:50
Calnum : 234332698001 Caldate : 18-AUG-2004 Caltype :
Standards: 04WS1375

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12448	12034	25.00000	24.16729	pg	-3	15	
gamma-BHC	A	11865	11207	25.00000	23.61245	pg	-6	15	
beta-BHC	A	6829.7	5776.2	25.00000	21.14366	pg	-15	15	
delta-BHC	A	12248	10673	25.00000	21.78484	pg	-13	15	
Heptachlor	A	11134	9688.5	25.00000	21.75493	pg	-13	15	
Aldrin	A	11158	10269	25.00000	23.00773	pg	-8	15	
Heptachlor epoxide	A	11746	10507	25.00000	22.36196	pg	-11	15	
gamma-Chlordane	A	11746	10473	25.00000	22.29028	pg	-11	15	
alpha-Chlordane	A	11514	10400	25.00000	22.58283	pg	-10	15	
4,4'-DDE	A	11199	10066	50.00000	44.94076	pg	-10	15	
Endosulfan I	A	11555	10332	25.00000	22.35389	pg	-11	15	
Dieldrin	A	10810	9970.9	50.00000	46.12069	pg	-8	15	
Endrin	A	9337.9	8403.3	50.00000	44.99583	pg	-10	15	
4,4'-DDD	A	8357.9	8287.9	50.00000	49.58128	pg	-1	15	
Endosulfan II	A	10568	9174.3	50.00000	43.40682	pg	-13	15	
4,4'-DDT	A	6386.0	4684.4	50.00000	36.67734	pg	**-27**	15	c- ***
Endrin aldehyde	A	9063.0	7594.1	50.00000	41.89615	pg	**-16**	15	c- rsd ***
Methoxychlor	A	3073.6	2358.0	250.0000	191.7939	pg	**-23**	15	c- ***
Endosulfan sulfate	A	10918	8462.1	50.00000	38.75395	pg	**-22**	15	c- ***
Endrin ketone	A	10887	9411.0	50.00000	43.22191	pg	-14	15	
TCMX	A	10613	9394.2	50.00000	44.26000	pg	-11	15	
Decachlorobiphenyl	A	10518	8271.6	50.00000	39.32119	pg	**-21**	15	c-
alpha-BHC	B	30745	30294	25.00000	24.63289	pg	-1	15	
gamma-BHC	B	27916	26726	25.00000	23.93461	pg	-4	15	
beta-BHC	B	15332	13164	25.00000	21.46545	pg	-14	15	rsd ***
delta-BHC	B	29831	25513	25.00000	21.38170	pg	-14	15	rsd ***
Heptachlor	B	18594	16874	25.00000	22.68653	pg	-9	15	
Aldrin	B	26261	25110	25.00000	23.90476	pg	-4	15	
Heptachlor epoxide	B	23506	21628	25.00000	23.00316	pg	-8	15	
gamma-Chlordane	B	26518	24825	25.00000	23.40444	pg	-6	15	
alpha-Chlordane	B	26490	24344	25.00000	22.97452	pg	-8	15	
4,4'-DDE	B	22455	22250	50.00000	49.54299	pg	-1	15	
Endosulfan I	B	23463	21806	25.00000	23.23477	pg	-7	15	
Dieldrin	B	22264	21311	50.00000	47.86034	pg	-4	15	
Endrin	B	17669	16669	50.00000	47.17171	pg	-6	15	
4,4'-DDD	B	14021	14820	50.00000	52.84928	pg	6	15	
Endosulfan II	B	22746	18967	50.00000	41.69319	pg	**-17**	15	c- ***
4,4'-DDT	B	9765.7	7803.1	50.00000	39.95153	pg	**-20**	15	c- ***
Endrin aldehyde	B	17007	14901	50.00000	43.80781	pg	-12	15	rsd ***
Methoxychlor	B	4123.7	3400.9	250.0000	206.1849	pg	**-18**	15	c- ***
Endosulfan sulfate	B	19108	16708	50.00000	43.72130	pg	-13	15	rsd ***
Endrin ketone	B	19145	17287	50.00000	45.14638	pg	-10	15	
TCMX	B	23392	20901	50.00000	44.67484	pg	-11	15	
Decachlorobiphenyl	B	15776	13577	50.00000	43.03212	pg	-14	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				9	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804340530022
Calnum : 804335061001
Standards: 04WS0926

Run Name : ccv
Filename : 236_022
Caldate : 19-AUG-2004

IDF : 1.0
Injected : 23-AUG-2004 23:24
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	14709	20.00000	16.86365	pg	-16	15	c- ***
gamma-BHC	A	15725	13307	20.00000	16.92467	pg	-15	15	
beta-BHC	A	6765.0	5761.8	20.00000	17.03407	pg	-15	15	
delta-BHC	A	16456	13376	20.00000	16.25659	pg	-19	15	c- ***
Heptachlor	A	14010	11967	20.00000	17.08375	pg	-15	15	
Aldrin	A	14295	12168	20.00000	17.02383	pg	-15	15	
Heptachlor epoxide	A	13130	11204	20.00000	17.06491	pg	-15	15	
gamma-Chlordane	A	13395	11389	20.00000	17.00475	pg	-15	15	
alpha-Chlordane	A	12715	10844	20.00000	17.05586	pg	-15	15	
4,4'-DDE	A	12199	10823	40.00000	35.48930	pg	-11	15	
Endosulfan I	A	12083	10320	20.00000	17.08114	pg	-15	15	
Dieldrin	A	12776	11198	40.00000	35.05904	pg	-12	15	
Endrin	A	10555	8718.5	40.00000	33.03970	pg	-17	15	c- ***
4,4'-DDD	A	9747.9	8736.9	40.00000	35.85154	pg	-10	15	
Endosulfan II	A	11037	9407.8	40.00000	34.09682	pg	-15	15	
4,4'-DDT	A	9946.1	8190.0	40.00000	32.93754	pg	-18	15	c- ***
Endrin aldehyde	A	9333.6	7174.4	40.00000	30.74638	pg	-23	15	c- rsd ***
Methoxychlor	A	4119.4	3719.9	200.0000	180.6082	pg	-10	15	
Endosulfan sulfate	A	9970.7	8055.0	40.00000	32.31455	pg	-19	15	c- rsd ***
Endrin ketone	A	11378	9867.3	40.00000	34.68818	pg	-13	15	
TCMX	A	11206	9594.0	40.00000	34.24742	pg	-14	15	
Decachlorobiphenyl	A	6860.7	6429.7	40.00000	37.48698	pg	-6	15	
alpha-BHC	B	18618	17179	20.00000	18.45432	pg	-8	15	
gamma-BHC	B	16853	15511	20.00000	18.40700	pg	-8	15	
beta-BHC	B	7539.0	6911.5	20.00000	18.33526	pg	-8	15	
delta-BHC	B	17681	15675	20.00000	17.73141	pg	-11	15	
Heptachlor	B	11573	11583	20.00000	20.01680	pg	0	15	
Aldrin	B	15576	14388	20.00000	18.47489	pg	-8	15	
Heptachlor epoxide	B	14304	13048	20.00000	18.24487	pg	-9	15	
gamma-Chlordane	B	14552	13335	20.00000	18.32712	pg	-8	15	
alpha-Chlordane	B	13966	12712	20.00000	18.20434	pg	-9	15	
4,4'-DDE	B	13346	12466	40.00000	37.36069	pg	-7	15	
Endosulfan I	B	13152	11984	20.00000	18.22379	pg	-9	15	
Dieldrin	B	13833	12789	40.00000	36.98298	pg	-8	15	
Endrin	B	10399	8791.6	40.00000	33.81841	pg	-15	15	
4,4'-DDD	B	10577	9611.8	40.00000	36.35153	pg	-9	15	
Endosulfan II	B	11891	10625	40.00000	35.74226	pg	-11	15	
4,4'-DDT	B	9610.9	8458.2	40.00000	35.20244	pg	-12	15	
Endrin aldehyde	B	9868.4	8054.0	40.00000	32.64570	pg	-18	15	c- rsd ***
Methoxychlor	B	3926.5	3580.4	200.0000	182.3676	pg	-9	15	
Endosulfan sulfate	B	11029	9388.3	40.00000	34.04880	pg	-15	15	rsd ***
Endrin ketone	B	11582	9950.2	40.00000	34.36498	pg	-14	15	rsd ***
TCMX	B	12101	11263	40.00000	37.23195	pg	-7	15	
Decachlorobiphenyl	B	6429.3	5791.5	40.00000	36.03201	pg	-10	15	
Average EPA 8081A	A		(count=22)				15	15	
Average EPA 8081A	B		(count=22)				10	15	

-=low bias c=CCV rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804340530031 Filename : 236_031 Injected : 24-AUG-2004 03:49
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1375

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	16097	25.00000	23.06946	pg	-8	15	
gamma-BHC	A	15725	14371	25.00000	22.84801	pg	-9	15	
beta-BHC	A	6765.0	6035.3	25.00000	22.30333	pg	-11	15	
delta-BHC	A	16456	14432	25.00000	21.92611	pg	-12	15	
Heptachlor	A	14010	12603	25.00000	22.48902	pg	-10	15	
Aldrin	A	14295	13015	25.00000	22.76125	pg	-9	15	
Heptachlor epoxide	A	13130	11934	25.00000	22.72192	pg	-9	15	
gamma-Chlordane	A	13395	12021	25.00000	22.43545	pg	-10	15	
alpha-Chlordane	A	12715	11556	25.00000	22.72111	pg	-9	15	
4,4'-DDE	A	12199	11766	50.00000	48.22598	pg	-4	15	
Endosulfan I	A	12083	10927	25.00000	22.60686	pg	-10	15	
Dieldrin	A	12776	12073	50.00000	47.25035	pg	-5	15	
Endrin	A	10555	8945.0	50.00000	42.37233	pg	-15	15	
4,4'-DDD	A	9747.9	9640.3	50.00000	49.44815	pg	-1	15	
Endosulfan II	A	11037	10071	50.00000	45.62592	pg	-9	15	
4,4'-DDT	A	9946.1	8288.1	50.00000	41.66502	pg	-17	15	c- ***
Endrin aldehyde	A	9333.6	7917.1	50.00000	42.41153	pg	-15	15	rsd ***
Methoxychlor	A	4119.4	3775.5	250.0000	229.1303	pg	-8	15	
Endosulfan sulfate	A	9970.7	8613.0	50.00000	43.19140	pg	-14	15	rsd ***
Endrin ketone	A	11378	10673	50.00000	46.89955	pg	-6	15	
TCMX	A	11206	9873.9	50.00000	44.05813	pg	-12	15	
Decachlorobiphenyl	A	6860.7	5694.9	50.00000	41.50333	pg	-17	15	c-
alpha-BHC	B	18618	18741	25.00000	25.16567	pg	1	15	
gamma-BHC	B	16853	16757	25.00000	24.85640	pg	-1	15	
beta-BHC	B	7539.0	7190.4	25.00000	23.84385	pg	-5	15	
delta-BHC	B	17681	16769	25.00000	23.71088	pg	-5	15	
Heptachlor	B	11573	12495	25.00000	26.99110	pg	8	15	
Aldrin	B	15576	15387	25.00000	24.69599	pg	-1	15	
Heptachlor epoxide	B	14304	13950	25.00000	24.38253	pg	-2	15	
gamma-Chlordane	B	14552	14178	25.00000	24.35750	pg	-3	15	
alpha-Chlordane	B	13966	13518	25.00000	24.19960	pg	-3	15	
4,4'-DDE	B	13346	13719	50.00000	51.39537	pg	3	15	
Endosulfan I	B	13152	12703	25.00000	24.14685	pg	-3	15	
Dieldrin	B	13833	13918	50.00000	50.30755	pg	1	15	
Endrin	B	10399	9507.4	50.00000	45.71501	pg	-9	15	
4,4'-DDD	B	10577	10455	50.00000	49.42700	pg	-1	15	
Endosulfan II	B	11891	11368	50.00000	47.79831	pg	-4	15	
4,4'-DDT	B	9610.9	9058.1	50.00000	47.12394	pg	-6	15	
Endrin aldehyde	B	9868.4	8671.2	50.00000	43.93431	pg	-12	15	rsd ***
Methoxychlor	B	3926.5	3906.7	250.0000	248.7348	pg	-1	15	
Endosulfan sulfate	B	11029	10073	50.00000	45.66303	pg	-9	15	rsd ***
Endrin ketone	B	11582	10831	50.00000	46.75906	pg	-6	15	rsd ***
TCMX	B	12101	11844	50.00000	48.94040	pg	-2	15	
Decachlorobiphenyl	B	6429.3	5636.1	50.00000	43.83134	pg	-12	15	
Average EPA 8081A	A		(count=22)				10	15	
Average EPA 8081A	B		(count=22)				4	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234332698 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
014	230_014	X	hex			18-AUG-2004 00:28	1.0							
015	230_015	PEM				18-AUG-2004 00:58	1.0			1			1	
017	230_017	ICAL	level_1			18-AUG-2004 01:59	1.0						2	
018	230_018	ICAL	level_2			18-AUG-2004 02:29	1.0						3	
019	230_019	ICAL	level_3			18-AUG-2004 03:00	1.0						4	
020	230_020	ICAL	level_4			18-AUG-2004 03:31	1.0						5	
021	230_021	ICAL	level_5			18-AUG-2004 04:01	1.0						6	
022	230_022	ICAL	level_6			18-AUG-2004 04:32	1.0						7	
023	230_023	ICAL	level_7			18-AUG-2004 05:03	1.0						8	
026	230_026	ICV	icv			18-AUG-2004 06:34	1.0			1			9	
027	230_027	X				18-AUG-2004 07:05	1.0						9	

Stds used: 1=04WS0930 2=04WS1513 3=04WS1512 4=04WS1511 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS1240

SEQUENCE SUMMARY FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234333910 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_ry7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
005	231_005	PEM				18-AUG-2004 20:40	1.0	1.0			1	1	
006	231_006	CCV	ccv			18-AUG-2004 21:10	1.0	1.0	6		1	2	
007	231_007	X	pest_4			18-AUG-2004 21:41	1.0					2	
010	231_010	BLANK	QC261489	93820	Soil	18-AUG-2004 23:13	1.0	0.6752			1		
011	231_011	LCS	QC261490	93820	Soil	18-AUG-2004 23:43	1.0	0.6734	6		1		
012	231_012	MS	QC261491	93820	Soil	19-AUG-2004 00:14	1.0	0.6725	6	1	1		
013	231_013	MSD	QC261492	93820	Soil	19-AUG-2004 00:44	1.0	0.672	6	1	1		
014	231_014	SAMPLE	174034-001	93820	Soil	19-AUG-2004 01:15	5.0	0.6757			1		
015	231_015	SAMPLE	174034-002	93820	Soil	19-AUG-2004 01:45	5.0	0.6761			1		
016	231_016	SAMPLE	174045-001	93820	Soil	19-AUG-2004 02:16	1.0	0.672			1		
017	231_017	SAMPLE	174031-001	93820	Soil	19-AUG-2004 02:47	1.0	0.6684			1		
018	231_018	SAMPLE	174031-002	93820	Soil	19-AUG-2004 03:17	1.0	0.6748			1		
019	231_019	SAMPLE	174031-003	93820	Soil	19-AUG-2004 03:48	1.0						
021	231_021	PEM				19-AUG-2004 04:49	1.0	1.0			1	3	
022	231_022	X	ccv			19-AUG-2004 05:19	1.0					4	
023	231_023	CCV	ccv			19-AUG-2004 05:50	1.0	1.0	5		1	5	
024	231_024	X	pest_5			19-AUG-2004 06:20	1.0					5	
027	231_027	SAMPLE	174031-004	93820	Soil	19-AUG-2004 07:52	1.0	0.664			1		
028	231_028	SAMPLE	174031-005	93820	Soil	19-AUG-2004 08:22	1.0	0.6662			1		
029	231_029	SAMPLE	174031-006	93820	Soil	19-AUG-2004 08:53	1.0	0.6562	3		1		3:DIELDR=444.781
030	231_030	MSS	174031-007	93820	Soil	19-AUG-2004 09:23	1.0	0.6766			1		1:ENDOSU=203.225
031	231_031	SAMPLE	174031-008	93820	Soil	19-AUG-2004 09:54	1.0	0.6614			1		
032	231_032	SAMPLE	173959-012	93777	Soil	19-AUG-2004 10:24	5.0	0.6739			1		
033	231_033	SAMPLE	173929-011	93758	Soil	19-AUG-2004 10:55	3.0	0.6734	1		1		1:DDE44=252.772
034	231_034	SAMPLE	173929-013	93758	Soil	19-AUG-2004 11:25	3.0	0.6601			1		
035	231_035	SAMPLE	173929-014	93758	Soil	19-AUG-2004 11:56	3.0	0.664	4		1		4:DDE44=317.933
036	231_036	SAMPLE	174014-001	93777	Soil	19-AUG-2004 13:22	10.0	0.668			1		
037	231_037	X	hex			19-AUG-2004 13:52	1.0						
038	231_038	PEM				19-AUG-2004 14:23	1.0	1.0			1	1	
039	231_039	CCV	ccv			19-AUG-2004 14:53	1.0	1.0	5		1	2	

Stds used: 1=04WS0930 2=04WS1434 3=04WS1389 4=04WS1385 5=04WS1375
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234333910 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 18-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
040	231_040	X	pest_4			19-AUG-2004 15:24	1.0				2	
043	231_043	BLANK	QC261642	93856	Soil	19-AUG-2004 17:44	1.0	0.6698	7	1		
044	231_044	LCS	QC261643	93856	Soil	19-AUG-2004 18:15	1.0	0.6658	11	1		
045	231_045	MS	QC261644	93856	Soil	19-AUG-2004 18:45	2.0	0.6618	11	1		
046	231_046	MSD	QC261645	93856	Soil	19-AUG-2004 19:16	2.0	0.6684	11	1		
047	231_047	SAMPLE	174046-001	93856	Soil	19-AUG-2004 19:47	10.0	0.6662	7	1		
048	231_048	SAMPLE	174046-002	93856	Soil	19-AUG-2004 20:17	5.0	0.6725	7	1		
049	231_049	SAMPLE	174046-003	93856	Soil	19-AUG-2004 20:47	10.0	0.6575	7	1		
050	231_050	SAMPLE	174046-004	93856	Soil	19-AUG-2004 21:18	10.0	0.6689	7	1		
051	231_051	MSS	174056-010	93856	Soil	19-AUG-2004 21:48	2.0	0.6684	7	1		
052	231_052	SAMPLE	174073-001	93856	Soil	19-AUG-2004 22:19	1.0	0.6684	6	1		
054	231_054	PEM				19-AUG-2004 23:19	1.0	1.0		1	3	
055	231_055	X	ccv			19-AUG-2004 23:49	1.0				4	
056	231_056	X	ccv			20-AUG-2004 00:20	1.0				5	
057	231_057	CCV	pest_5			20-AUG-2004 00:50	1.0	1.0	11	1	5	
058	231_058	PEM				20-AUG-2004 01:20	1.0				3	
065	231_065	SAMPLE	173927-001	93777	Soil	20-AUG-2004 04:54	1.0	0.6562	9	1	>ac	
066	231_066	SAMPLE	173927-002	93777	Soil	20-AUG-2004 05:25	1.0	0.668	10	1	>ac	
071	231_071	PEM				20-AUG-2004 07:59	1.0	1.0		1	1	
072	231_072	CCV	ccv			20-AUG-2004 08:29	1.0	1.0	16	1	2 ac	
074	231_074	X				20-AUG-2004 09:30	1.0	1.0		1	1	

Stds used: 1=04WS0930 2=04WS1434 3=04WS1389 4=04WS1385 5=04WS1375
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	232_001	X	hex			19-AUG-2004 15:22	1.0						
003	232_003	X	pest_4			19-AUG-2004 16:21	1.0					1	
004	232_004	X	ccv			19-AUG-2004 16:50	1.0					1	
011	232_011	X	hex			19-AUG-2004 21:13	1.0						
013	232_013	X	hex			19-AUG-2004 22:12	1.0						
014	232_014	ICAL	level_1			19-AUG-2004 22:41	1.0	1.0				2	
015	232_015	ICAL	level_2			19-AUG-2004 23:10	1.0	1.0				3	
016	232_016	ICAL	level_3			19-AUG-2004 23:40	1.0	1.0				4	
017	232_017	ICAL	level_4			20-AUG-2004 00:09	1.0	1.0				5	
018	232_018	ICAL	level_5			20-AUG-2004 00:38	1.0	1.0				6	
019	232_019	ICAL	level_6			20-AUG-2004 01:08	1.0	1.0				7	
020	232_020	ICAL	level_7			20-AUG-2004 01:37	1.0	1.0				8	
022	232_022	PEM				20-AUG-2004 02:36	1.0	1.0			1	9	
023	232_023	ICV	icv			20-AUG-2004 03:05	1.0	1.0	1		1	10	
024	232_024	X				20-AUG-2004 03:34	1.0					10	
026	232_026	BLANK	QC261824	93904	Soil	20-AUG-2004 04:33	1.0	0.657	4		1		
027	232_027	LCS	QC261825	93904	Soil	20-AUG-2004 05:02	1.0	0.6743	8		1		
028	232_028	MSS	173867-002	93904	Soil	20-AUG-2004 05:32	5.0	0.6583	4		1		
029	232_029	MS	QC261826	93904	Soil	20-AUG-2004 06:01	5.0	0.6745	7	8	1		
030	232_030	MSD	QC261827	93904	Soil	20-AUG-2004 06:31	5.0	0.6566	7	9	1		
031	232_031	SAMPLE	174092-003	93904	Soil	20-AUG-2004 07:00	20.0	0.668	4		1		
032	232_032	SAMPLE	174073-002	93856	Soil	20-AUG-2004 13:09	1.0	0.6752	3		1		
033	232_033	SAMPLE	174073-003	93856	Soil	20-AUG-2004 13:38	1.0	0.6579	3		1		
034	232_034	SAMPLE	174073-004	93856	Soil	20-AUG-2004 14:15	1.0	0.6748	3		1		
035	232_035	SAMPLE	174073-005	93856	Soil	20-AUG-2004 14:44	1.0	0.6592	3		1		
037	232_037	PEM				20-AUG-2004 15:43	1.0	1.0			1	9	
038	232_038	CCV	pest_4			20-AUG-2004 16:12	1.0	1.0	8		1	1	
041	232_041	BLANK	QC261674	93866	Water	20-AUG-2004 19:41	1.0	0.01	4		1		
042	232_042	BS	QC261675	93866	Water	20-AUG-2004 20:10	1.0	0.01	19		1		2:ENDRIN=279.423
043	232_043	BSD	QC261676	93866	Water	20-AUG-2004 20:39	1.0	0.01	19		1		2:ENDRIN=249.084

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
044	232_044	SAMPLE	173967-009	93866	Water	20-AUG-2004 21:09	1.0	0.009434	3		1	spk	
045	232_045	SAMPLE	173967-010	93866	Water	20-AUG-2004 21:38	1.0	0.009524	3		1	spk	
046	232_046	SAMPLE	173967-011	93866	Water	20-AUG-2004 22:08	1.0	0.009524	3		1	spk	
047	232_047	SAMPLE	173967-012	93866	Water	20-AUG-2004 22:37	1.0	0.009434	3		1	spk	
048	232_048	SAMPLE	173967-013	93866	Water	20-AUG-2004 23:07	1.0	0.009524	3		1	spk	
049	232_049	SAMPLE	173967-014	93866	Water	20-AUG-2004 23:36	1.0	0.009804	3		1	spk	
050	232_050	SAMPLE	173967-015	93866	Water	21-AUG-2004 00:05	1.0	0.009524	3		1	spk	
052	232_052	PEM				21-AUG-2004 01:04	1.0	1.0			1	11	
053	232_053	CCV	ccv			21-AUG-2004 01:34	1.0	1.0	15		1	12	
054	232_054	X	ccv			21-AUG-2004 02:03	1.0					13	
055	232_055	X	ccv			21-AUG-2004 02:33	1.0					13	
058	232_058	BLANK	QC261836	93907	Water	21-AUG-2004 04:01	1.0	0.01	2		1		
059	232_059	LCS	QC261837	93907	Water	21-AUG-2004 04:30	1.0	0.01	16	3	1	spk	2:ENDRIN=301.975
060	232_060	MS	QC261838	93907	Water	21-AUG-2004 05:00	1.0	0.009434	16		1		2:ENDRIN=289.263
061	232_061	MSD	QC261839	93907	Water	21-AUG-2004 05:29	1.0	0.009434	15	3	1		
062	232_062	BLANK	QC261840	93907	Filtra	21-AUG-2004 05:59	1.0	0.01	2		1		
063	232_063	LCS	QC261841	93907	Filtra	21-AUG-2004 06:28	1.0	0.01	16	4	1	spk	2:ENDRIN=222.211
064	232_064	SAMPLE	173990-001	93907	Filtra	21-AUG-2004 06:58	1.0	0.01	2		1	spk	
065	232_065	SAMPLE	173990-001	93907	Water	21-AUG-2004 07:27	1.0	0.01	2		1	spk	
066	232_066	SAMPLE	173990-002	93907	Filtra	21-AUG-2004 07:57	1.0	0.01	2		1	spk	
067	232_067	SAMPLE	173990-002	93907	Water	21-AUG-2004 08:26	1.0	0.01	2		1	spk	
069	232_069	PEM				21-AUG-2004 09:25	1.0	1.0			1	9	
070	232_070	CCV	pest_4			21-AUG-2004 09:54	1.0	1.0	5		1	1	
071	232_071	X	pest_4			21-AUG-2004 10:24	1.0					1	
074	232_074	SAMPLE	173979-001	93907	Water	21-AUG-2004 11:52	1.0	0.009524	1		1	spk	
075	232_075	MSS	173998-001	93907	Water	21-AUG-2004 12:22	1.0	0.009524	2	1	1	spk	
076	232_076	SAMPLE	173998-002	93907	Water	21-AUG-2004 12:51	1.0	0.009524	1	2	1	spk	
077	232_077	SAMPLE	173998-003	93907	Water	21-AUG-2004 13:21	1.0	0.009434	1		1	spk	
078	232_078	SAMPLE	173998-004	93907	Water	21-AUG-2004 13:50	1.0	0.009434	1		1	spk	
079	232_079	SAMPLE	173998-005	93907	Water	21-AUG-2004 14:20	1.0	0.009524	1	2	1	spk	

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
080	232_080	SAMPLE	173998-007	93907	Water	21-AUG-2004 14:49	1.0	0.009434	1		1	spk	
081	232_081	SAMPLE	174003-002	93907	Water	21-AUG-2004 15:19	1.0	0.01	1	2	1	spk	
082	232_082	SAMPLE	174003-003	93907	Water	21-AUG-2004 15:48	1.0	0.01	1	1	1	spk	
083	232_083	SAMPLE	174003-004	93907	Water	21-AUG-2004 16:18	1.0	0.009615	1		1	spk	
085	232_085	PEM				21-AUG-2004 17:16	1.0	1.0			1	11	
086	232_086	X	ccv			21-AUG-2004 17:46	1.0					12	
087	232_087	CCV	ccv			21-AUG-2004 18:15	1.0	1.0	6		1	13	
088	232_088	X	ccv			21-AUG-2004 18:45	1.0					13	
091	232_091	SAMPLE	174062-002	93907	Water	21-AUG-2004 20:13	1.0	0.009434	2		1		
092	232_092	SAMPLE	174062-003	93907	Water	21-AUG-2004 20:43	1.0	0.009434	2		1		
093	232_093	SAMPLE	174062-004	93907	Water	21-AUG-2004 21:12	1.0	0.009434	2		1		
094	232_094	SAMPLE	173959-024	93777	Soil	21-AUG-2004 21:42	1.0						
095	232_095	SAMPLE	173929-011	93758	Soil	21-AUG-2004 22:11	10.0	0.6734	2		1		
096	232_096	SAMPLE	173929-014	93758	Soil	21-AUG-2004 22:40	10.0	0.664	2		1		
097	232_097	MS	QC261226	93752	Soil	21-AUG-2004 23:10	2.0	0.6633	6		1		
098	232_098	MSD	QC261227	93752	Soil	21-AUG-2004 23:39	2.0	0.6566	6		1		
099	232_099	SAMPLE	174074-001	93856	Soil	22-AUG-2004 00:09	2.0						
100	232_100	SAMPLE	174031-003	93820	Soil	22-AUG-2004 00:38	5.0						
102	232_102	PEM				22-AUG-2004 01:37	1.0	1.0			1	9	
103	232_103	X	pest_4			22-AUG-2004 02:06	1.0					1	
104	232_104	CCV	pest_4			22-AUG-2004 02:36	1.0	1.0	5		1	1	

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174074 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804340530 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 23-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	236_002	PEM				23-AUG-2004 11:30	1.0	1.0			1	1	
003	236_003	X	pest_4			23-AUG-2004 12:00	1.0					2	
004	236_004	X	ccv			23-AUG-2004 12:29	1.0	1.0			1	2 ac	
005	236_005	X	pest_5			23-AUG-2004 13:08	1.0					3	
006	236_006	CCV	pest_5			23-AUG-2004 13:45	1.0	1.0	7		1	3	
007	236_007	X	pest_3			23-AUG-2004 14:14	1.0	1.0			1	4 ac	
008	236_008	SAMPLE	174107-002	93904	Soil	23-AUG-2004 15:28	1.0	0.668	7		1		
009	236_009	SAMPLE	174107-003	93904	Soil	23-AUG-2004 15:58	1.0	0.6618	7		1		
010	236_010	SAMPLE	174107-001	93904	Soil	23-AUG-2004 16:27	5.0	0.6714	7		1		
012	236_012	BLANK	QC262087	93963	Soil	23-AUG-2004 18:29	1.0	0.6671	7		1		
013	236_013	LCS	QC262088	93963	Soil	23-AUG-2004 18:59	1.0	0.6676	9		1		
014	236_014	MS	QC262089	93963	Soil	23-AUG-2004 19:28	1.0	0.6729	9	17	1		
015	236_015	MSD	QC262090	93963	Soil	23-AUG-2004 19:57	1.0	0.6766	9	10	1		
016	236_016	MSS	174109-001	93963	Soil	23-AUG-2004 20:27	1.0	0.6645	7		1		
017	236_017	SAMPLE	174109-002	93963	Soil	23-AUG-2004 20:56	1.0	0.6698	7		1		
018	236_018	SAMPLE	174109-003	93963	Soil	23-AUG-2004 21:26	1.0	0.6631	7		1		
020	236_020	PEM				23-AUG-2004 22:25	1.0	1.0			1	1	
021	236_021	X	ccv			23-AUG-2004 22:54	1.0					2	
022	236_022	CCV	ccv			23-AUG-2004 23:24	1.0	1.0	9		1	2	
025	236_025	LCS	QC261837	93907	Water	24-AUG-2004 00:52	1.0	0.01	10	1	1	2:ENDRIN=254.808	
026	236_026	SAMPLE	174031-003	93820	Soil	24-AUG-2004 01:21	10.0	0.6734	7		1		
027	236_027	SAMPLE	174074-001	93856	Soil	24-AUG-2004 01:51	2.0	0.6609	5		1		
028	236_028	SAMPLE	174031-006	93820	Soil	24-AUG-2004 02:20	5.0	0.6562	7		1		
030	236_030	PEM				24-AUG-2004 03:19	1.0	1.0			1	1	
031	236_031	CCV	ccv			24-AUG-2004 03:49	1.0	1.0	6		1	3	
032	236_032	X	pest_5			24-AUG-2004 04:18	1.0					3	
033	236_033	X	ccv			24-AUG-2004 04:48	1.0					4	

Stds used: 1=04WS0930 2=04WS0926 3=04WS1375 4=04WS1385
Flags used: ac=average CCV drift out

Reporting Summary for 174074 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174074-001	alpha-BHC	GC23	B	08/24/04 01:51
174074-001	beta-BHC	GC23	B	08/24/04 01:51
174074-001	gamma-BHC	GC23	B	08/24/04 01:51
174074-001	delta-BHC	GC23	B	08/24/04 01:51
174074-001	Heptachlor	GC23	B	08/24/04 01:51
174074-001	Aldrin	GC23	B	08/24/04 01:51
174074-001	Heptachlor epoxide	GC23	B	08/24/04 01:51
174074-001	Endosulfan I	GC23	B	08/24/04 01:51
174074-001	Dieldrin	GC23	B	08/24/04 01:51
174074-001	4,4'-DDE	GC23	B	08/24/04 01:51
174074-001	Endrin	GC23	B	08/24/04 01:51
174074-001	Endosulfan II	GC23	B	08/24/04 01:51
174074-001	Endosulfan sulfate	GC23	B	08/24/04 01:51
174074-001	4,4'-DDD	GC23	B	08/24/04 01:51
174074-001	Endrin ketone	GC23	A	08/24/04 01:51
174074-001	4,4'-DDT	GC23	B	08/24/04 01:51
174074-001	Chlordane (Technical)	GC23	A	08/24/04 01:51
174074-001	alpha-Chlordane	GC23	B	08/24/04 01:51
174074-001	gamma-Chlordane	GC23	B	08/24/04 01:51
174074-001	Methoxychlor	GC23	B	08/24/04 01:51
174074-001	Toxaphene	GC23	A	08/24/04 01:51
174074-001	TCMX	GC23	B	08/24/04 01:51
174074-001	Decachlorobiphenyl	GC23	B	08/24/04 01:51
QC261642	alpha-BHC	GC16	B	08/19/04 17:44
QC261642	beta-BHC	GC16	B	08/19/04 17:44
QC261642	gamma-BHC	GC16	B	08/19/04 17:44
QC261642	delta-BHC	GC16	B	08/19/04 17:44
QC261642	Heptachlor	GC16	B	08/19/04 17:44
QC261642	Aldrin	GC16	B	08/19/04 17:44
QC261642	Heptachlor epoxide	GC16	B	08/19/04 17:44
QC261642	Endosulfan I	GC16	B	08/19/04 17:44
QC261642	Dieldrin	GC16	B	08/19/04 17:44
QC261642	4,4'-DDE	GC16	B	08/19/04 17:44
QC261642	Endrin	GC16	B	08/19/04 17:44
QC261642	Endosulfan II	GC16	A	08/19/04 17:44
QC261642	Endosulfan sulfate	GC16	B	08/19/04 17:44
QC261642	4,4'-DDD	GC16	B	08/19/04 17:44
QC261642	Endrin ketone	GC16	B	08/19/04 17:44
QC261642	4,4'-DDT	GC16	B	08/19/04 17:44
QC261642	Chlordane (Technical)	GC16	B	08/19/04 17:44
QC261642	alpha-Chlordane	GC16	B	08/19/04 17:44
QC261642	gamma-Chlordane	GC16	B	08/19/04 17:44
QC261642	Methoxychlor	GC16	B	08/19/04 17:44
QC261642	Toxaphene	GC16	B	08/19/04 17:44
QC261642	TCMX	GC16	B	08/19/04 17:44
QC261642	Decachlorobiphenyl	GC16	B	08/19/04 17:44
QC261643	gamma-BHC	GC16	B	08/19/04 18:15
QC261643	Heptachlor	GC16	B	08/19/04 18:15
QC261643	Aldrin	GC16	B	08/19/04 18:15
QC261643	Dieldrin	GC16	B	08/19/04 18:15
QC261643	Endrin	GC16	B	08/19/04 18:15
QC261643	4,4'-DDT	GC16	B	08/19/04 18:15

Reporting Summary for 174074 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC261643	TCMX	GC16	B	08/19/04 18:15
QC261643	Decachlorobiphenyl	GC16	B	08/19/04 18:15
QC261644	gamma-BHC	GC16	B	08/19/04 18:45
QC261644	Heptachlor	GC16	B	08/19/04 18:45
QC261644	Aldrin	GC16	B	08/19/04 18:45
QC261644	Dieldrin	GC16	B	08/19/04 18:45
QC261644	Endrin	GC16	B	08/19/04 18:45
QC261644	4,4'-DDT	GC16	B	08/19/04 18:45
QC261644	TCMX	GC16	B	08/19/04 18:45
QC261644	Decachlorobiphenyl	GC16	B	08/19/04 18:45
QC261645	gamma-BHC	GC16	B	08/19/04 19:16
QC261645	Heptachlor	GC16	B	08/19/04 19:16
QC261645	Aldrin	GC16	B	08/19/04 19:16
QC261645	Dieldrin	GC16	B	08/19/04 19:16
QC261645	Endrin	GC16	B	08/19/04 19:16
QC261645	4,4'-DDT	GC16	B	08/19/04 19:16
QC261645	TCMX	GC16	B	08/19/04 19:16
QC261645	Decachlorbbiphenyl	GC16	B	08/19/04 19:16

Curtis & Tompkins Laboratories Sample Preparation Summary 19-AUG-2004 08:45

Batch Number : 93856
Date Extracted: 18-AUG-2004
Extracted by : Sharon L. Karagozlu
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS0840D
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174046-001	10	URS Corporation	Soil	15.01	g	10	0.666223	1	.01	0		8081	3620B	
174046-002	5	URS Corporation	Soil	14.87	g	10	0.672495	1	.01	0		8081	3620B	
174046-003	10	URS Corporation	Soil	15.21	g	10	0.657462	1	.01	0		8081	3620B	
174046-004	10	URS Corporation	Soil	14.95	g	10	0.668896	1	.01	0		8081	3620B	
174056-010	2	Northgate Environmental Manage	Soil	14.96	g	10	0.668449	1	.01	0		8081	3620B	mss
174073-001		Treadwell & Rollo	Soil	14.96	g	10	0.668449	1	.01	0		8081	3620B	
174073-002		Treadwell & Rollo	Soil	14.81	g	10	0.675219	1	.01	0		8081	3620B	
174073-003		Treadwell & Rollo	Soil	15.2	g	10	0.657895	1	.01	0		8081	3620B	
174073-004		Treadwell & Rollo	Soil	14.82	g	10	0.674764	1	.01	0		8081	3620B	
174073-005		Treadwell & Rollo	Soil	15.17	g	10	0.659196	1	.01	0		8081	3620B	
174074-001		Treadwell & Rollo	Soil	15.13	g	10	0.660939	1	.01	0		8081	3620B	
QC261642	MB		Soil	14.93	g	10	0.669792	1	.01	0		8081	3620B	
QC261643	LCS		Soil	15.02	g	10	0.665779	1	.01	.5		8081	3620B	
QC261644	MS	of 174056-010 2	Soil	15.11	g	10	0.661813	1	.01	.5		8081	3620B	
QC261645	MSD	of 174056-010 2	Soil	14.96	g	10	0.668449	1	.01	.5		8081	3620B	

225

Prep Chemist: [signature] Reviewed By: [signature] Date: 8/19/04

Relinquished By: [signature] 8/19/04 Received By: JM Date: 8/19/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 93856
LIMS Analysis: 8081
Extracted by: SLK
Date Extracted: 8/18/04

Extraction Method:
- ☐ EPA 3550b Sonication
- ☑ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
MB QC261642	14.93	10.0	X	
LCS 3	15.02			
MS 4	15.11			174056-010
MSD 5	14.96			
174046-001	15.01			
-002	14.87			
-003	15.21			
-004	14.95			
174056-010	14.96			MSS
174073-001	14.96			
-002	14.81			
-003	15.20			
-004	14.82			
-005	15.17			
174074-001	15.13		X	

8/19/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	Em 43310410	SLK 8/18/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 04112	
0.01 mL of surrogate solution was added to all samples	04WS1343A	
0.5 mL of spike solution was added to all spikes	04WS0840D	
1:1 CH_2Cl_2 (lot# Em 44199):Acetone(lot# Em 44179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman 028	
Soxhlets on at:	N/A	
Soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4		
Exchanged 2x with Hexane	JTB453E46	8/19/04
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	

8/18/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

8/19/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: [signature]

Cleanup Date: 8/19/04

Benchbook # **BK 1851**

Page 93

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC261642	93856	1.0	1.0	
LCS 3				
MS 4				174056-0010
MSD 5				
174046-001				
-002				
-003				
-004				
174056-010				MSS
174073-001				
-002				
-003				
-004				
-005				
174074-001				
			8/19/04	

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	RESREP 303221-AZ	[signature] 8/19/04
Florisil cartridges/ columns rinsed 3x with Hexane	JTB Y53E46	
Extracts were eluted with _____mL 9:1 Hexane/Acetone — Hexane		
Acetone	EM Y4085	
Concentrated to volumes as noted above		

[signature] 8/19/04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

[signature] 8/19/04

Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. DK 1979

Continued From Page —

Sample ID	Weight (g)	Analysis	Comments
MB	14.93	8081	Em433 10410
LCS	15.02		↓
MS	15.11		174056-010
MSD	14.96		↓
174046-001	15.01		Comp-001A, -001B, -001C, -001D
-002	14.87		
-003	15.21		
-004	14.95		
174056-010	14.96		MSS, Comp-007A, -008A, -009A
MB	15.16	PCB	Em433 10410
LCS	15.07		↓
MS	14.89		174046-001
MSD	14.77		↓
174046-001	14.81		MSS, Comp-001A, -001B, -001C, -001D
-002	15.20		
-003	14.83		
-004	15.01		
174073-001A	14.96	8081	
-002	14.91		
-003	15.20		
-004	14.82		
-005	15.17		
174073-001A	14.95	PCB	
-002	15.16		
-003	15.00		
-004	15.04		
-005	14.82		

CJC 8/18/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 8/18/04

Signed: Date:

PROJECT Soil Aliquot

Notebook No. BK 1979

Continued From Page

Sample ID	Weight (g)	Analyses	Comments
MB	49.79	TEH	EM433104.10
LCS	50.26		↓
MS	49.93		174081-002A
MSD	50.03		↓
174081-001A	49.89		Rodney
↓ -002 ↓	50.14	↓	MSS
174074-001A	14.94	PCB	
174074-001	15.13	8081	
174080-005 ↓	15.06	PCB	Comp-001A, 002A, 003A, 004A

8/18/04

Continued on Page

Read and Understood By

Signed 8/18/04 Date

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14 A	GC14 B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX116[0.5]	Batch#:	93858
Matrix:	Soil	Sampled:	08/18/04
Units:	ug/Kg	Received:	08/18/04
Diln Fac:	1.000	Prepared:	08/18/04

Type:	SAMPLE	Moisture:	12%
Lab ID:	174074-001	Analyzed:	08/24/04
Basis:	dry	Cleanup Method:	EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	11	3.6
Aroclor-1221	ND	22	17
Aroclor-1232	ND	11	3.6
Aroclor-1242	ND	11	5.0
Aroclor-1248	ND	11	2.7
Aroclor-1254	ND	11	4.9
Aroclor-1260	ND	11	3.6

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	69	65-135

Type:	BLANK	Analyzed:	08/19/04
Lab ID:	QC261649	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.5	3.1
Aroclor-1221	ND	19	14
Aroclor-1232	ND	9.5	3.2
Aroclor-1242	ND	9.5	4.4
Aroclor-1248	ND	9.5	2.4
Aroclor-1254	ND	9.5	4.3
Aroclor-1260	ND	9.5	3.1

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	83	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC261650	Batch#:	93858
Matrix:	Soil	Prepared:	08/18/04
Units:	ug/Kg	Analyzed:	08/19/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	165.9	177.8	107	65-135
Aroclor-1260	165.9	177.0	107	65-141

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	88	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	93858
MSS Lab ID:	174046-001	Sampled:	08/17/04
Matrix:	Soil	Received:	08/17/04
Units:	ug/Kg	Prepared:	08/18/04
Basis:	as received	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC261651

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<3.200	167.9	178.4	106	58-145
Aroclor-1260	<3.200	167.9	179.3	107	41-163

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	80	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC261652

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	169.3	155.0	92	58-145	15	27
Aroclor-1260	169.3	157.1	93	41-163	14	41

Surrogate	%REC	Limits
TCMX	68	65-135
Decachlorobiphenyl	57 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204322005001 Name: Type: (normal) Date: 10-AUG-2004 21:30 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	223_012	204322005012	pcb10_2	10-AUG-2004 21:30	04WS0970
2	223_013	204322005013	pcb25_5	10-AUG-2004 22:03	04WS0960
3	223_014	204322005014	pcb100_20	10-AUG-2004 22:36	04WS0961
4	223_015	204322005015	pcb250_50	10-AUG-2004 23:09	04WS0962
5	223_016	204322005016	pcb500_100	10-AUG-2004 23:43	04WS0963
6	223_017	204322005017	pcb750_150	11-AUG-2004 00:16	04WS0964
7	223_018	204322005018	pcb1K_200	11-AUG-2004 00:49	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	241.88	260.86	262.25	252.20	254.11	261.41	254.28	AVRG	R		0.003917		pg	255.28	3	.99	20	
Aroclor-1016 Peak # 2	A	508.90	548.89	529.14	496.33	488.11	492.58	476.48	AVRG	R		0.001977		pg	505.77	5	.99	20	
Aroclor-1016 Peak # 3	A	620.68	628.54	612.26	600.41	594.02	604.30	597.67	AVRG	R		0.001644		pg	608.27	2	.99	20	
Aroclor-1016 Peak # 4	A	352.39	387.39	374.27	369.23	368.14	377.97	370.45	AVRG	R		0.002692		pg	371.41	3	.99	20	
Aroclor-1016 Peak # 5	A	313.16	322.92	318.32	314.17	311.14	314.81	314.12	AVRG	R		0.003169		pg	315.52	1	.99	20	
Aroclor-1260 Peak # 1	A	624.25	625.91	596.28	578.15	552.15	543.66	546.70	AVRG	R		0.001721		pg	581.01	6	.99	20	
Aroclor-1260 Peak # 2	A	1043.9	1095.6	1067.1	970.66	938.81	918.24	930.02	AVRG	R		0.001005		pg	994.91	7	.99	20	
Aroclor-1260 Peak # 3	A	492.39	485.97	560.63	545.96	529.87	525.55	542.27	AVRG	R		0.001901		pg	526.09	5	.99	20	
Aroclor-1260 Peak # 4	A	417.80	419.08	475.46	456.56	463.16	468.93	485.10	AVRG	R		0.002197		pg	455.15	6	.99	20	
Aroclor-1260 Peak # 5	A	1181.2	1105.7	1165.7	1142.3	1119.0	1134.6	1161.7	AVRG	R		8.739E-4		pg	1144.3	2	.99	20	
TCMX	A	10704	11759	10966	10477	10823	11184	10931	AVRG	R		9.109E-5		pg	10978	4	.99	20	
Decachlorobiphenyl	A	11347	11475	11099	9594.2	8979.6	9288.4	8937.4	AVRG	R		9.898E-5		pg	10103	11	.99	20	
Aroclor-1016 Peak # 1	B	320.01	319.57	257.07	258.80	260.57	265.74	261.63	AVRG	R		0.003602		pg	277.63	10	.99	20	
Aroclor-1016 Peak # 2	B	417.12	396.67	352.06	356.08	348.45	352.78	345.11	AVRG	R		0.002726		pg	366.90	8	.99	20	
Aroclor-1016 Peak # 3	B	1307.6	1367.3	1223.0	1196.2	1163.7	1161.5	1138.3	AVRG	R		8.180E-4		pg	1222.5	7	.99	20	
Aroclor-1016 Peak # 4	B	570.82	663.23	494.42	480.86	475.46	472.88	468.62	AVRG	R		0.001930		pg	518.04	14	.99	20	
Aroclor-1016 Peak # 5	B	368.67	346.47	326.03	321.38	345.39	328.34	333.63	AVRG	R		0.002954		pg	338.56	5	.99	20	
Aroclor-1260 Peak # 1	B	666.18	776.08	907.04	931.74	935.54	930.21	948.83	AVRG	R		0.001148		pg	870.80	12	.99	20	
Aroclor-1260 Peak # 2	B	1210.2	1285.2	1292.8	1311.5	1359.3	1339.7	1393.1	AVRG	R		7.616E-4		pg	1313.1	5	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204322005001 Name: Type: (normal) Date: 10-AUG-2004 21:30 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	933.43	862.20	758.59	876.32	908.27	920.51	963.77	AVRG	R		0.001125		pg	889.01	8	.99	20	
Aroclor-1260 Peak # 4	B	801.43	933.67	685.09	695.65	733.52	744.55	777.18	AVRG	R		0.001303		pg	767.30	11	.99	20	
Aroclor-1260 Peak # 5	B	1456.8	1742.6	1702.9	1708.2	1787.9	1820.3	1901.3	AVRG	R		5.776E-4		pg	1731.4	8	.99	20	
TCMX	B	12098	12866	12289	11971	12145	12431	12130	AVRG	R		8.146E-5		pg	12276	2	.99	20	
Decachlorobiphenyl	B	9922.3	10275	10795	9740.5	9697.0	10298	10170	AVRG	R		9.873E-5		pg	10128	4	.99	20	

236

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204340598001 Name: Type: (normal) Date: 23-AUG-2004 22:54 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	236_010	204340598010	pcb10_2	23-AUG-2004 22:54	04WS0970
2	236_011	204340598011	pcb25_5	23-AUG-2004 23:27	04WS0960
3	236_012	204340598012	pcb100_20	24-AUG-2004 00:00	04WS0961
4	236_013	204340598013	pcb250_50	24-AUG-2004 00:33	04WS0962
5	236_014	204340598014	pcb500_100	24-AUG-2004 01:07	04WS0963
6	236_015	204340598015	pcb750_150	24-AUG-2004 01:40	04WS0964
7	236_016	204340598016	pcb1K_200	24-AUG-2004 02:13	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	319.79	283.20	279.83	276.04	267.09	265.43	251.92	AVRG	R		0.003602		pg	277.61	8	.99	20	
Aroclor-1016 Peak # 2	A	486.99	572.68	592.31	554.60	522.81	497.50	468.28	AVRG	R		0.001894		pg	527.88	9	.99	20	
Aroclor-1016 Peak # 3	A	717.12	779.95	755.44	728.03	694.00	663.49	627.17	AVRG	R		0.001410		pg	709.31	7	.99	20	
Aroclor-1016 Peak # 4	A	409.01	461.44	446.34	436.33	420.05	401.63	380.84	AVRG	R		0.002368		pg	422.23	7	.99	20	
Aroclor-1016 Peak # 5	A	344.83	373.35	375.41	366.82	350.62	336.16	321.96	AVRG	R		0.002835		pg	352.74	6	.99	20	
Aroclor-1260 Peak # 1	A	684.92	789.78	717.11	678.07	621.22	586.67	567.13	AVRG	R		0.001507		pg	663.56	12	.99	20	
Aroclor-1260 Peak # 2	A	1332.5	1433.1	1329.4	1255.7	1134.4	1067.4	1037.4	AVRG	R		8.149E-4		pg	1227.1	12	.99	20	
Aroclor-1260 Peak # 3	A	785.47	843.47	733.25	724.77	683.88	644.97	633.70	AVRG	R		0.001386		pg	721.36	10	.99	20	
Aroclor-1260 Peak # 4	A	550.31	593.20	576.39	591.76	571.48	536.83	533.83	AVRG	R		0.001770		pg	564.83	4	.99	20	
Aroclor-1260 Peak # 5	A	1182.0	1491.8	1464.7	1487.6	1403.9	1332.4	1314.6	AVRG	R		7.234E-4		pg	1382.4	8	.99	20	
TCMX	A	11731	12657	12225	11969	11681	11059	10596	AVRG	R		8.545E-5		pg	11703	6	.99	20	
Decachlorobiphenyl	A	12551	13203	12229	11384	10317	9356.5	9141.6	AVRG	R		8.953E-5		pg	11169	14	.99	20	
Aroclor-1016 Peak # 1	B	371.27	439.50	347.86	333.54	324.39	304.89	290.29	AVRG	R		0.002902		pg	344.53	14	.99	20	
Aroclor-1016 Peak # 2	B	536.46	522.34	460.86	435.66	413.75	385.69	369.92	AVRG	R		0.002240		pg	446.38	14	.99	20	
Aroclor-1016 Peak # 3	B	1546.1	1718.8	1546.8	1453.6	1351.3	1261.1	1207.3	AVRG	R		6.941E-4		pg	1440.7	13	.99	20	
Aroclor-1016 Peak # 4	B	720.32	699.18	641.80	605.94	568.11	540.72	516.18	AVRG	R		0.001631		pg	613.18	13	.99	20	
Aroclor-1016 Peak # 5	B	471.02	453.39	444.70	414.35	398.75	382.96	371.18	AVRG	R		0.002384		pg	419.48	9	.99	20	
Aroclor-1260 Peak # 1	B	614.85	1004.0	1178.4	1067.5	990.85	939.90	906.54	AVRG	R		0.001044		pg	957.44	18	.99	20	
Aroclor-1260 Peak # 2	B	1740.1	1824.6	1688.9	1545.5	1468.1	1380.6	1316.8	AVRG	R		6.384E-4		pg	1566.4	12	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204340598001 Name: Type: (normal) Date: 23-AUG-2004 22:54 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	1222.7	1154.2	1115.4	1128.3	1066.9	1023.3	990.15	AVRG	R		9.090E-4		pg	1100.1	7	.99	20	
Aroclor-1260 Peak # 4	B	974.58	944.97	908.58	898.72	853.38	817.30	791.15	AVRG	R		0.001131		pg	884.10	8	.99	20	
Aroclor-1260 Peak # 5	B	2149.2	2368.2	2301.0	2242.2	2142.7	2028.0	1984.6	AVRG	R		4.600E-4		pg	2173.7	6	.99	20	
TCMX	B	13151	14507	14172	13906	13455	12724	12142	AVRG	R		7.442E-5		pg	13437	6	.99	20	
Decachlorobiphenyl	B	15221	16557	15067	14475	13149	12156	11976	AVRG	R		7.099E-5		pg	14086	12	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	250.80	pg	0	15	
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	208.19	pg	-17	15	c- ***
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	488.96	pg	-2	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	414.56	pg	-17	15	c- ***
GC06	A	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004			500.00	527.07	pg	5	15	
GC06	B	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004			500.00	487.66	pg	-2	15	
GC06	A	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004			250.00	257.26	pg	3	15	
GC06	B	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004			250.00	247.29	pg	-1	15	

Ch. A used

-=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	275.16	pg	10	15	
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004			250.00	232.85	pg	-7	15	
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	549.11	pg	10	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004			500.00	487.26	pg	-3	15	
GC06	A	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004			500.00	515.30	pg	3	15	
GC06	B	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004			500.00	511.19	pg	2	15	
GC06	A	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004			250.00	266.01	pg	6	15	
GC06	B	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004			250.00	265.78	pg	6	15	

CONTINUING CALIBRATION SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	10978	10757	50.000	48.996	pg	-2	15	
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	12276	11582	50.000	47.175	pg	-6	15	
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	10978	10837	100.00	98.721	pg	-1	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	12276	11367	100.00	92.595	pg	-7	15	
GC06	A	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004	11703	12289	100.00	105.01	pg	5	15	
GC06	B	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004	13437	13935	100.00	103.71	pg	4	15	
GC06	A	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004	11703	11849	50.000	50.625	pg	1	15	
GC06	B	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004	13437	13760	50.000	51.203	pg	2	15	

CONTINUING CALIBRATION SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	10103	12265	50.000	60.700	pg	21	15	c+
GC06	B	204334995002	19-AUG-2004 15:15	204322005001	10-AUG-2004	10128	11846	50.000	58.482	pg	17	15	c+
GC06	A	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	10103	11483	100.00	113.66	pg	14	15	
GC06	B	204334995020	20-AUG-2004 02:10	204322005001	10-AUG-2004	10128	11747	100.00	115.99	pg	16	15	c+
GC06	A	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004	11169	11338	100.00	101.51	pg	2	15	
GC06	B	204340598035	24-AUG-2004 12:56	204340598001	23-AUG-2004	14086	14484	100.00	102.82	pg	3	15	
GC06	A	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004	11169	11752	50.000	52.611	pg	5	15	
GC06	B	204340598051	24-AUG-2004 22:13	204340598001	23-AUG-2004	14086	14868	50.000	52.777	pg	6	15	

Ch. A used

GMA 8/25/04

+=high bias c=CCV

SEQUENCE SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	223_001	X	hex			10-AUG-2004 14:45	1.0					
002	223_002	CCV	pcb250_50			10-AUG-2004 15:19	1.0				1	
003	223_003	X	ccv			10-AUG-2004 15:52	1.0				1	
011	223_011	X	hex			10-AUG-2004 20:57	1.0					
012	223_012	ICAL	pcb10_2			10-AUG-2004 21:30	1.0	1.0			2	
013	223_013	ICAL	pcb25_5			10-AUG-2004 22:03	1.0	1.0			3	
014	223_014	ICAL	pcb100_20			10-AUG-2004 22:36	1.0	1.0			4	
015	223_015	ICAL	pcb250_50			10-AUG-2004 23:09	1.0	1.0			1	
016	223_016	ICAL	pcb500_100			10-AUG-2004 23:43	1.0	1.0			5	
017	223_017	ICAL	pcb750_150			11-AUG-2004 00:16	1.0	1.0			6	
018	223_018	ICAL	pcb1K_200			11-AUG-2004 00:49	1.0	1.0			7	
019	223_019	X	hex			11-AUG-2004 01:22	1.0					
020	223_020	CCV	accu_1660			11-AUG-2004 01:55	1.0	1.0		1	8	
021	223_021	X	icv			11-AUG-2004 02:29	1.0				8	
022	223_022	X	icv			11-AUG-2004 03:02	1.0				9	
024	223_024	BLANK	QC260723	93632	Soil	11-AUG-2004 10:51	1.0	0.8306		1		
025	223_025	LCS	QC260724	93632	Soil	11-AUG-2004 11:24	1.0	0.8259		1		
026	223_026	MS	QC260725	93632	Soil	11-AUG-2004 11:58	1.0	0.8328		1		
027	223_027	MSD	QC260726	93632	Soil	11-AUG-2004 12:32	1.0	0.8311		1		
028	223_028	MSS	173735-008	93632	Soil	11-AUG-2004 13:05	1.0	0.8273		1		
029	223_029	SAMPLE	173875-001	93632	Soil	11-AUG-2004 13:38	1.0	0.8328		1		
030	223_030	SAMPLE	173875-002	93632	Soil	11-AUG-2004 14:16	1.0	0.8273		1		
031	223_031	CHECK	04ws0993			11-AUG-2004 14:55	1.0	1.0		1	10	
032	223_032	SAMPLE	173866-001	93632	Soil	11-AUG-2004 15:29	1.0	0.821		1		
033	223_033	SAMPLE	173866-002	93632	Soil	11-AUG-2004 16:02	1.0	0.821		1		
035	223_035	X	ccv			11-AUG-2004 17:34	1.0				5	
036	223_036	CCV	pcb500_100			11-AUG-2004 18:08	1.0	1.0		1	5	
037	223_037	CCV	ar1254			11-AUG-2004 18:41	1.0	1.0		1	11	
038	223_038	X	ccv			11-AUG-2004 19:14	1.0				11	
040	223_040	SAMPLE	173748-007	93632	Soil	11-AUG-2004 20:20	1.0	0.842		1		
041	223_041	SAMPLE	173735-002	93527	Soil	11-AUG-2004 20:54	1.0	0.6793		1		

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
042	223_042	SAMPLE	173735-003	93527	Soil	11-AUG-2004 21:27	1.0	0.6892			1		
043	223_043	SAMPLE	173755-001	93527	Soil	11-AUG-2004 22:00	1.0	0.6557			1		
044	223_044	SAMPLE	173755-003	93527	Soil	11-AUG-2004 22:33	1.0	0.6878			1		
045	223_045	SAMPLE	173863-001	93632	Miscel	11-AUG-2004 23:06	1.0	0.8429			1		
046	223_046	SAMPLE	173752-003	93632	Soil	11-AUG-2004 23:40	1.0	0.8284			1		
047	223_047	SAMPLE	173752-004	93632	Soil	12-AUG-2004 00:13	1.0	0.8333			1		
048	223_048	SAMPLE	173752-005	93632	Soil	12-AUG-2004 00:46	1.0	0.8319			1		
049	223_049	SAMPLE	173752-006	93632	Soil	12-AUG-2004 01:19	1.0	0.8243		1	1		
051	223_051	CCV	pcb250_50			12-AUG-2004 02:26	1.0	1.0			1	9	
052	223_052	X	ccv			12-AUG-2004 02:59	1.0					9	
053	223_053	X	ccv			12-AUG-2004 03:32	1.0					11	
054	223_054	CCV	ar1254			12-AUG-2004 04:05	1.0	1.0			1	11	
056	223_056	SAMPLE	173752-007	93632	Soil	12-AUG-2004 05:12	1.0	0.8213			1		
057	223_057	SAMPLE	173752-008	93632	Soil	12-AUG-2004 05:45	2.0	0.8284			1		
058	223_058	SAMPLE	173752-009	93632	Soil	12-AUG-2004 06:18	1.0	0.8469			1		
059	223_059	SAMPLE	173752-010	93632	Soil	12-AUG-2004 06:52	5.0	0.8199			1		
060	223_060	SAMPLE	173752-011	93632	Soil	12-AUG-2004 07:25	1.0	0.8325			1		
061	223_061	SAMPLE	173752-012	93632	Soil	12-AUG-2004 07:58	1.0	0.8245			1		
062	223_062	SAMPLE	173752-013	93632	Soil	12-AUG-2004 08:31	1.0	0.83			1		
063	223_063	SAMPLE	173752-014	93632	Soil	12-AUG-2004 09:05	1.0	0.8426			1		
065	223_065	CCV	pcb500_100			12-AUG-2004 10:11	1.0	1.0			1	5	
066	223_066	X	ccv			12-AUG-2004 10:44	1.0					5	
067	223_067	CCV	ar1254			12-AUG-2004 11:18	1.0	1.0			1	11	
068	223_068	X	ccv			12-AUG-2004 11:51	1.0					11	
070	223_070	BLANK	QC260919	93682	Soil	12-AUG-2004 17:27	1.0	0.6743			1		
071	223_071	LCS	QC260920	93682	Soil	12-AUG-2004 18:00	1.0	0.6575			1		
072	223_072	MS	QC260921	93682	Soil	12-AUG-2004 18:34	1.0	0.6653			1		
073	223_073	MSD	QC260922	93682	Soil	12-AUG-2004 19:07	1.0	0.6734			1		
074	223_074	MSS	173927-001	93682	Soil	12-AUG-2004 19:40	1.0	0.6757			1		
075	223_075	SAMPLE	173735-004	93426	Soil	12-AUG-2004 20:13	1.0	0.8273			1		
076	223_076	SAMPLE	173735-005	93426	Soil	12-AUG-2004 20:46	1.0	0.8392			1		

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204322005 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
077	223_077	SAMPLE	173894-004	93682	Soil	12-AUG-2004 21:20	1.0	0.6653		1	1		
078	223_078	SAMPLE	173894-005	93682	Soil	12-AUG-2004 21:53	1.0	0.6649		4	1		
079	223_079	SAMPLE	173926-001	93682	Soil	12-AUG-2004 22:26	1.0	0.6748			1		
081	223_081	CCV	pcb250_50			12-AUG-2004 23:33	1.0	1.0			1	9	
082	223_082	X	ccv			13-AUG-2004 00:06	1.0					9	
083	223_083	CCV	ar1254			13-AUG-2004 00:39	1.0	1.0			1	11	
084	223_084	X	ccv			13-AUG-2004 01:12	1.0					11	
086	223_086	SAMPLE	173927-002	93682	Soil	13-AUG-2004 02:19	1.0	0.6671	1	1	1		2:PCB126=1166.88
087	223_087	SAMPLE	173868-056	93682	Soil	13-AUG-2004 02:52	1.0	0.6653			1		
088	223_088	SAMPLE	173868-057	93682	Soil	13-AUG-2004 03:25	1.0	0.6739			1		
089	223_089	SAMPLE	173868-059	93682	Soil	13-AUG-2004 03:59	1.0	0.6707			1		
090	223_090	SAMPLE	173868-061	93682	Soil	13-AUG-2004 04:32	1.0	0.6725			1		
091	223_091	SAMPLE	173868-062	93682	Soil	13-AUG-2004 05:05	1.0	0.6623			1		
092	223_092	SAMPLE	173868-063	93682	Soil	13-AUG-2004 05:38	1.0	0.6743			1		
093	223_093	SAMPLE	173868-064	93682	Soil	13-AUG-2004 06:12	1.0	0.677			1		
094	223_094	SAMPLE	173868-065	93682	Soil	13-AUG-2004 06:45	1.0	0.6766			1		
095	223_095	SAMPLE	173868-066	93682	Soil	13-AUG-2004 07:18	1.0	0.6761			1		
097	223_097	CCV	pcb500_100			13-AUG-2004 08:25	1.0	1.0			1	5	
098	223_098	X	ccv			13-AUG-2004 08:58	1.0					5	
099	223_099	CCV	ar1254			13-AUG-2004 09:31	1.0	1.0			1	11	
100	223_100	X	ccv			13-AUG-2004 10:04	1.0					11	
102	223_102	SAMPLE	173868-067	93682	Soil	13-AUG-2004 11:11	1.0	0.6734			1		
103	223_103	SAMPLE	173894-005	93682	Soil	13-AUG-2004 11:59	1.0	0.6649		4	1		
104	223_104	SAMPLE	173868-068	93682	Soil	13-AUG-2004 12:32	1.0	0.6729			1		
105	223_105	SAMPLE	173868-069	93682	Soil	13-AUG-2004 13:06	1.0	0.6775			1		
106	223_106	SAMPLE	173868-070	93682	Soil	13-AUG-2004 13:39	1.0	0.6693			1		
107	223_107	SAMPLE	173868-071	93682	Soil	13-AUG-2004 14:12	1.0	0.672			1		
108	223_108	SAMPLE	173868-072	93682	Soil	13-AUG-2004 14:45	1.0	0.6693			1		
110	223_110	CCV	pcb250_50			13-AUG-2004 15:52	1.0	1.0			1	9	
112	223_112	CCV	ar1254			13-AUG-2004 16:58	1.0	1.0			1	11	
113	223_113	X	ccv			13-AUG-2004 17:32	1.0					11	

Stds used: 1=04WS0962 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0963 6=04WS0964 7=04WS0967 8=04WS1303 9=04WS1423 10=04WS0993 11=04W

SEQUENCE SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204334995 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	232_002	CCV	pcb250_50			19-AUG-2004 15:15	1.0	1.0	1		1	1	
003	232_003	X	ccv			19-AUG-2004 15:48	1.0					1	
004	232_004	X	ccv			19-AUG-2004 17:17	1.0					2	
005	232_005	CCV	ar1254			19-AUG-2004 17:51	1.0	1.0			1	2	
006	232_006	CCV	ar1248			19-AUG-2004 18:26	1.0	1.0			1	3	
007	232_007	X	ar1248			19-AUG-2004 18:59	1.0					3	
009	232_009	BLANK A	QC261649	93858	Soil	19-AUG-2004 20:05	1.0	0.6596	1		1		
010	232_010	LCS	QC261650	93858	Soil	19-AUG-2004 20:39	1.0	0.6636	1		1		
011	232_011	MS	QC261651	93858	Soil	19-AUG-2004 21:12	1.0	0.6716	1		1		
012	232_012	MSD	QC261652	93858	Soil	19-AUG-2004 21:45	1.0	0.677	1	2	1		
013	232_013	MSS	174046-001	93858	Soil	19-AUG-2004 22:18	1.0	0.6752	1		1		
014	232_014	SAMPLE	174046-002	93858	Soil	19-AUG-2004 22:51	1.0	0.6579	1		1		
015	232_015	BLANK	QC261820	93903	Soil	19-AUG-2004 23:24	1.0	0.8406	1		1		
016	232_016	LCS	QC261821	93903	Soil	19-AUG-2004 23:58	1.0	0.8392	1	1	1		
017	232_017	SAMPLE	173931-007	93776	Soil	20-AUG-2004 00:31	20.0	0.6579	2		1		
018	232_018	SAMPLE	173868-031	93644	Soil	20-AUG-2004 01:04	5.0	0.6716	2	2	1		
020	232_020	CCV	pcb500_100			20-AUG-2004 02:10	1.0	1.0	1		1	4	
021	232_021	X	ccv			20-AUG-2004 02:43	1.0					4	
022	232_022	CCV	ar1254			20-AUG-2004 03:17	1.0	1.0			1	2	
023	232_023	X	ccv			20-AUG-2004 03:50	1.0					2	
024	232_024	X	ar1248			20-AUG-2004 04:23	1.0					3	
025	232_025	CCV	ar1248			20-AUG-2004 04:56	1.0	1.0			1	3	
027	232_027	SAMPLE	173868-021	93644	Soil	20-AUG-2004 06:02	2.0	0.668	1		1		
028	232_028	SAMPLE	173868-055	93670	Soil	20-AUG-2004 06:36	1.0	0.6761	1	2	1		
029	232_029	SAMPLE	174046-003	93858	Soil	20-AUG-2004 07:09	1.0	0.6743	1		1		
030	232_030	SAMPLE	174046-004	93858	Soil	20-AUG-2004 07:42	1.0	0.6662	1		1		
031	232_031	SAMPLE	174073-001	93858	Soil	20-AUG-2004 08:15	1.0	0.6689	1		1		
032	232_032	SAMPLE	174073-002	93858	Soil	20-AUG-2004 08:48	1.0	0.6596	1		1		
033	232_033	SAMPLE	174073-003	93858	Soil	20-AUG-2004 09:22	1.0	0.6667	1		1		
034	232_034	SAMPLE	174073-004	93858	Soil	20-AUG-2004 09:55	1.0	0.6649	1		1		
035	232_035	SAMPLE	174073-005	93858	Soil	20-AUG-2004 10:28	1.0	0.6748	1		1		

Stds used: 1=04WS1423 2=04WS0546 3=04WS1542 4=04WS0963

SEQUENCE SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204334995 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	232_036	MSS	174092-003	93903	Soil	20-AUG-2004 11:01	1.0	0.8342	2	1	1	2:PCB101=2164.28	
038	232_038	CCV	pcb250_50			20-AUG-2004 12:07	1.0	1.0	1		1	1	
039	232_039	X	ccv			20-AUG-2004 12:41	1.0					1	
040	232_040	X	ccv			20-AUG-2004 13:14	1.0					2	
041	232_041	CCV	ar1254			20-AUG-2004 13:47	1.0	1.0			1	2	

247

Stds used: 1=04WS1423 2=04WS0546 3=04WS1542 4=04WS0963

SEQUENCE SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204340598 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 23-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	236_002	CCV	pcb250_50			23-AUG-2004 12:38	1.0					1	
003	236_003	X	ccv			23-AUG-2004 13:11	1.0					1	
009	236_009	X	hex			23-AUG-2004 22:21	1.0						
010	236_010	ICAL	pcb10_2			23-AUG-2004 22:54	1.0	1.0				2	
011	236_011	ICAL	pcb25_5			23-AUG-2004 23:27	1.0	1.0				3	
012	236_012	ICAL	pcb100_20			24-AUG-2004 00:00	1.0	1.0				4	
013	236_013	ICAL	pcb250_50			24-AUG-2004 00:33	1.0	1.0				5	
014	236_014	ICAL	pcb500_100			24-AUG-2004 01:07	1.0	1.0				6	
015	236_015	ICAL	pcb750_150			24-AUG-2004 01:40	1.0	1.0				7	
016	236_016	ICAL	pcb1K_200			24-AUG-2004 02:13	1.0	1.0				8	
018	236_018	X	icv			24-AUG-2004 03:20	1.0					9	
019	236_019	X	icv			24-AUG-2004 03:53	1.0					9	
020	236_020	CCV	accu_1660			24-AUG-2004 04:26	1.0	1.0			1	1	
021	236_021	CCV	ar1254			24-AUG-2004 04:59	1.0					10	
022	236_022	X	ccv			24-AUG-2004 05:32	1.0					10	
024	236_024	MS	QC261449	93809	Water	24-AUG-2004 06:39	1.0	0.02381			1		
025	236_025	MSD	QC261450	93809	Water	24-AUG-2004 07:12	1.0	0.02381			1		
026	236_026	MS	QC261822	93903	Soil	24-AUG-2004 07:45	1.0						
027	236_027	MSD	QC261823	93903	Soil	24-AUG-2004 08:31	1.0						
028	236_028	SAMPLE	174080-005	93858	Soil	24-AUG-2004 09:04	1.0	0.664		1	1		
029	236_029	BLANK	QC262066	93957	Soil	24-AUG-2004 09:37	1.0	0.6775			1		
030	236_030	LCS	QC262067	93957	Soil	24-AUG-2004 10:10	1.0	0.6748			1		
031	236_031	SAMPLE	174109-001	93957	Soil	24-AUG-2004 10:43	1.0	0.657			1		
032	236_032	SAMPLE	174109-002	93957	Soil	24-AUG-2004 11:17	1.0	0.6748			1		
033	236_033	SAMPLE	174109-003	93957	Soil	24-AUG-2004 11:50	1.0	0.6601			1		
035	236_035	CCV	pcb500_100			24-AUG-2004 12:56	1.0	1.0			1	6	
037	236_037	CCV	ar1254			24-AUG-2004 14:03	1.0					10	
038	236_038	X	ccv			24-AUG-2004 14:36	1.0					10	
040	236_040	LCS	QC261850	93909	Filtra	24-AUG-2004 15:56	1.0	0.025		4	1	spk	
041	236_041	SAMPLE	174074-001A	93858	Soil	24-AUG-2004 16:29	1.0	0.6693		1	1		

Stds used: 1=04WS1423 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0962 6=04WS0963 7=04WS0964 8=04WS0967 9=04WS1303 10=04WS0546
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174074 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204340598 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 23-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
042	236_042	MS	QC262068	93957	Soil	24-AUG-2004 17:02	1.0					
043	236_043	MSD	QC262069	93957	Soil	24-AUG-2004 17:35	1.0					
044	236_044	MSS	174110-016	93957	Soil	24-AUG-2004 18:21	1.0					
050	236_050	X	pcb special			24-AUG-2004 21:40	1.0					
051	236_051	CCV	pcb250_50			24-AUG-2004 22:13	1.0	1.0		1	1	
052	236_052	X	ccv			24-AUG-2004 22:46	1.0				1	
067	236_067	CCV	pcb500_100			25-AUG-2004 07:05	1.0	1.0		1	6	
068	236_068	X	ccv			25-AUG-2004 07:38	1.0				6	

249

Stds used: 1=04WS1423 2=04WS0970 3=04WS0960 4=04WS0961 5=04WS0962 6=04WS0963 7=04WS0964 8=04WS0967 9=04WS1303 10=04WS0546
Flags used: spk=5% spike rule

Reporting Summary for 174074 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174074-001	Aroclor-1016	GC06	A	08/24/04 16:29
174074-001	Aroclor-1221	GC06	A	08/24/04 16:29
174074-001	Aroclor-1232	GC06	A	08/24/04 16:29
174074-001	Aroclor-1242	GC06	A	08/24/04 16:29
174074-001	Aroclor-1248	GC06	A	08/24/04 16:29
174074-001	Aroclor-1254	GC06	A	08/24/04 16:29
174074-001	Aroclor-1260	GC06	A	08/24/04 16:29
174074-001	TCMX	GC06	A	08/24/04 16:29
174074-001	Decachlorobiphenyl	GC06	A	08/24/04 16:29
QC261649	Aroclor-1016	GC06	A	08/19/04 20:05
QC261649	Aroclor-1221	GC06	A	08/19/04 20:05
QC261649	Aroclor-1232	GC06	A	08/19/04 20:05
QC261649	Aroclor-1242	GC06	A	08/19/04 20:05
QC261649	Aroclor-1248	GC06	A	08/19/04 20:05
QC261649	Aroclor-1254	GC06	A	08/19/04 20:05
QC261649	Aroclor-1260	GC06	A	08/19/04 20:05
QC261649	TCMX	GC06	A	08/19/04 20:05
QC261649	Decachlorobiphenyl	GC06	A	08/19/04 20:05
QC261650	Aroclor-1016	GC06	A	08/19/04 20:39
QC261650	Aroclor-1260	GC06	A	08/19/04 20:39
QC261650	TCMX	GC06	A	08/19/04 20:39
QC261650	Decachlorobiphenyl	GC06	A	08/19/04 20:39
QC261651	Aroclor-1016	GC06	A	08/19/04 21:12
QC261651	Aroclor-1260	GC06	A	08/19/04 21:12
QC261651	TCMX	GC06	A	08/19/04 21:12
QC261651	Decachlorobiphenyl	GC06	A	08/19/04 21:12
QC261652	Aroclor-1016	GC06	A	08/19/04 21:45
QC261652	Aroclor-1260	GC06	A	08/19/04 21:45
QC261652	TCMX	GC06	A	08/19/04 21:45
QC261652	Decachlorobiphenyl	GC06	A	08/19/04 21:45

Curtis & Tompkins Laboratories **Sample Preparation Summary** **19-AUG-2004 14:55**

Batch Number : 93858
Date Extracted: 18-AUG-2004
Extracted by : Sharon L. Karagozlu
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174046-001			URS Corporation	Soil	14.81	g	10	0.675219	1		.025	0		PCB	3665A	mss
174046-002			URS Corporation	Soil	15.2	g	10	0.657895	1		.025	0		PCB	3665A	
174046-003			URS Corporation	Soil	14.83	g	10	0.674309	1		.025	0		PCB	3665A	
174046-004			URS Corporation	Soil	15.01	g	10	0.666223	1		.025	0		PCB	3665A	
174073-001			Treadwell & Rollo	Soil	14.95	g	10	0.668896	1		.025	0		PCB	3665A	
174073-002			Treadwell & Rollo	Soil	15.16	g	10	0.659631	1		.025	0		PCB	3665A	
174073-003			Treadwell & Rollo	Soil	15	g	10	0.666667	1		.025	0		PCB	3665A	
174073-004			Treadwell & Rollo	Soil	15.04	g	10	0.664894	1		.025	0		PCB	3665A	
174073-005			Treadwell & Rollo	Soil	14.82	g	10	0.674764	1		.025	0		PCB	3665A	
174074-001			Treadwell & Rollo	Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	
174080-005			Brighton Environmental	Soil	15.06	g	10	0.664011	1		.025	0		PCB	3665A	
QC261649	MB			Soil	15.16	g	10	0.659631	1		.025	0		PCB	3665A	
QC261650	LCS			Soil	15.07	g	10	0.663570	1		.025	.025		PCB	3665A	
QC261651	MS	of 174046-001		Soil	14.89	g	10	0.671592	1		.025	.025		PCB	3665A	
QC261652	MSD	of 174046-001		Soil	14.77	g	10	0.677048	1		.025	.025		PCB	3665A	

251

Prep Chemist: [signature] Reviewed By: [signature] Date: 8/20/04

Relinquished By: [signature] Received By: [signature] Date: 8/19/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

BK 1940

Page 64

LIMS Batch No: 93858
LIMS Analysis PCB
Extracted by: SLK
Date Extracted: 8/19/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☑ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
MB OC-061649	15.16	10.0	
LCS 50	15.07		
MS 51	14.89		174046-001
MSD 52	14.77		↓
174046-001	14.81		MSS
-002	15.20		
-003	14.83		
-004	15.01		
174073-001	14.95		
-002	15.16		
-003	15.00		
-004	15.04		
-005	14.82		
174080-005	15.06		
174074-001	14.94		
		ES 8/19/04	

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM 43310410	SLK 8/18/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 040603	
0.025 mL of surrogate solution was added to all samples	04WS1343IA	
0.025 mL of spike solution 1660 was added to all spikes	04WS1320IA	
1:1 CH_2Cl_2 (lot# EM 44199):Acetone(lot# EM 44085) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D28	
PFE (ASE) / soxhlets on at:	N/A	
PFE (ASE) / soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	↓	↓
Concentrated to volumes noted above after exchange to Hexane Lot#	JTBX53846	[illegible]
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTBX26046	
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	

8/18/04

252

Continued from page ____
Continued on page ____

Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. DK 1979

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
MB	14.93	8081	EM433 10410
LCS	15.02		↓
MS	15.11		174056-010
MSD	14.96		↓
174046-001	15.01		Comp-001A, -001B, -001C, -001D
-002	14.87		↓
-003	15.21		
-004	14.95		MSS, Comp-007A, -008A, -009A
174056-010	14.96	PCB	EM433 10410
MB	15.16		↓
LCS	15.07		174046-001
MS	14.89		↓
MSD	14.77		MSS, Comp-001A, -001B, -001C, -001D
174046-001	14.81		↓
-002	15.20		
-003	14.83		
-004	15.01	8081	
174073-001A	14.96		
-002	14.91		
-003	15.20		
-004	14.82		
-005	15.17	PCB	
174073-001A	14.95		
-002	15.16		
-003	15.00		
-004	15.04		
-005	14.82		

8/18/04

Continued on Page

Read and Understood By

Signed 8/18/04 Date

Signed Date

PROJECT: Soil Aliquot

Notebook No. BK 1979

Continued From Page

Sample ID	Weight (g)	Analyses	Comments
MB	49.79	TPH	OM4331041O
LCS	50.26		↓
MS	49.93		174081-002A
MSD	50.03		↓
174081-001A	49.89		Rodney
↓ -002 ↓	50.14	↓	MSS
174074-001A	14.94	PCB	
174074-001	15.13	8081	
174080-005 ↓	15.06	PCB	Comp-001A, ~~002A~~, 003A, 004A

8/18/04

Continued on Page

Read and Understood By

Signed: [signature] Date: 8/18/04

Signed: Date:

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14 A	GC14 B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0			09/24/02 2.7	09/24/02 3.7	04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	08/12/03 5.4	08/12/03 3.2			08/02/03 2.3	08/02/03 2.0	07/26/03 2.6	07/26/03 1.8
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9			09/24/02 2.3	09/24/02 3.1	04/07/04 2.2	04/07/04 2.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX116[0.5]	Batch#:	93868
Lab ID:	174074-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL	MDL
Antimony	ND	3.1	0.20
Arsenic	4.0	0.26	0.10
Barium	58	0.52	0.014
Beryllium	0.20	0.10	0.0065
Cadmium	0.42	0.26	0.030
Chromium	67	0.52	0.034
Cobalt	9.3	1.0	0.080
Copper	16	0.52	0.060
Lead	83	0.16	0.067
Molybdenum	ND	1.0	0.065
Nickel	56	1.0	0.069
Selenium	0.52	0.26	0.18
Silver	ND	0.26	0.10
Thallium	ND	0.26	0.23
Vanadium	51	0.52	0.047
Zinc	87	1.0	0.18

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC261684	Batch#:	93868
Matrix:	Soil	Prepared:	08/19/04
Units:	mg/Kg	Analyzed:	08/19/04
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	ND	0.25	0.10
Barium	ND	0.50	0.013
Beryllium	ND	0.10	0.0063
Cadmium	ND	0.25	0.028
Chromium	ND	0.50	0.033
Cobalt	ND	1.0	0.076
Copper	ND	0.50	0.057
Lead	ND	0.15	0.065
Molybdenum	ND	1.0	0.062
Nickel	ND	1.0	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	ND	0.50	0.045
Zinc	ND	1.0	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	93916
Field ID:	BB3EX116[0.5]	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/20/04
Diln Fac:	1.000	Analyzed:	08/20/04

Type	Lab ID	Result	RL	MDL	Basis	Moisture
SAMPLE	174074-001	0.18	0.021	0.0042	dry	12%
BLANK	QC261887	ND	0.020	0.0039	as received	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	93868
Units:	mg/Kg	Prepared:	08/19/04
Basis:	as received	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: BS Lab ID: QC261685

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	96.50	97	75-125
Arsenic	50.00	49.35	99	75-125
Barium	100.0	99.00	99	75-125
Beryllium	2.500	2.440	98	75-125
Cadmium	10.00	9.750	98	75-125
Chromium	100.0	96.00	96	75-125
Cobalt	25.00	23.65	95	75-125
Copper	12.50	12.15	97	75-125
Lead	100.0	96.50	97	75-125
Molybdenum	20.00	19.75	99	75-125
Nickel	25.00	23.95	96	75-125
Selenium	50.00	45.95	92	75-125
Silver	10.00	9.600	96	75-125
Thallium	50.00	48.10	96	75-125
Vanadium	25.00	24.15	97	75-125
Zinc	25.00	24.70	99	75-125

Type: BSD Lab ID: QC261686

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	93.50	94	75-125	3	30
Arsenic	50.00	48.95	98	75-125	1	30
Barium	100.0	95.50	96	75-125	4	30
Beryllium	2.500	2.395	96	75-125	2	30
Cadmium	10.00	9.600	96	75-125	2	30
Chromium	100.0	94.00	94	75-125	2	30
Cobalt	25.00	23.20	93	75-125	2	30
Copper	12.50	11.85	95	75-125	3	30
Lead	100.0	94.50	95	75-125	2	30
Molybdenum	20.00	19.40	97	75-125	2	30
Nickel	25.00	23.50	94	75-125	2	30
Selenium	50.00	46.40	93	75-125	1	30
Silver	10.00	9.350	94	75-125	3	30
Thallium	50.00	47.40	95	75-125	1	30
Vanadium	25.00	23.55	94	75-125	3	30
Zinc	25.00	24.55	98	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	93916
Field ID:	ZZZZZZZZZZ	Sampled:	08/12/04
MSS Lab ID:	173977-001	Received:	08/12/04
Matrix:	Soil	Prepared:	08/20/04
Units:	mg/Kg	Analyzed:	08/20/04

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim	Dil Fac
BS	QC261888		0.5000	0.5270	105	75-125	as received				1.000
BSD	QC261889		0.5000	0.5240	105	75-125	as received		1	35	1.000
MS	QC261891	0.6852	0.5263	1.226	103	75-125	dry	5%			5.000
MSD	QC261892		0.5061	1.270	116	75-125	dry	5%	5	35	5.000

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX116[0.5]	Batch#:	93868
MSS Lab ID:	174074-001	Sampled:	08/18/04
Matrix:	Soil	Received:	08/18/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: MS Moisture: 12%
Lab ID: QC261689

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.089	84.80	39.98	46 *	75-125
Arsenic	4.019	42.40	41.98	90	75-125
Barium	58.38	84.80	137.8	94	75-125
Beryllium	0.1955	2.120	2.048	87	75-125
Cadmium	0.4243	8.480	7.887	88	75-125
Chromium	67.24	84.80	136.5	82	75-125
Cobalt	9.279	21.20	27.60	86	75-125
Copper	15.69	10.60	25.61	94	75-125
Lead	82.88	84.80	156.9	87	75-125
Molybdenum	0.2721	16.96	13.95	81	75-125
Nickel	56.30	21.20	70.81	68 *	75-125
Selenium	0.5213	42.40	35.36	82	75-125
Silver	<0.1023	8.480	7.590	90	75-125
Thallium	<0.2273	42.40	36.25	86	75-125
Vanadium	51.34	21.20	70.81	92	75-125
Zinc	87.05	21.20	103.5	77 NM	75-125

Type: MSD Moisture: 12%
Lab ID: QC261690

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	116.0	60.88	52 *	75-125	11	30
Arsenic	57.98	57.86	93	75-125	3	30
Barium	116.0	183.8	108	75-125	9	30
Beryllium	2.899	2.777	89	75-125	1	30
Cadmium	11.60	10.84	90	75-125	2	30
Chromium	116.0	179.2	97	75-125	9	30
Cobalt	28.99	34.26	86	75-125	1	30
Copper	14.49	28.24	87	75-125	4	30
Lead	116.0	184.9	88	75-125	1	30
Molybdenum	23.19	20.18	86	75-125	6	30
Nickel	28.99	82.33	90	75-125	5	30
Selenium	57.98	51.37	88	75-125	6	30
Silver	11.60	10.49	91	75-125	1	30
Thallium	57.98	50.96	88	75-125	3	30
Vanadium	28.99	81.17	103	75-125	3	30
Zinc	28.99	113.1	90	75-125	2	30

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174074	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	93868
MSS Lab ID:	174065-001	Sampled:	08/12/04
Matrix:	Soil	Received:	08/12/04
Units:	mg/Kg	Prepared:	08/19/04
Basis:	dry	Analyzed:	08/19/04
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC261687

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.334	125.3	40.48	30 *	75-125
Arsenic	5.478	62.66	63.28	92	75-125
Barium	137.0	125.3	266.3	103	75-125
Beryllium	0.2881	3.133	2.976	86	75-125
Cadmium	0.8165	12.53	11.22	83	75-125
Chromium	161.7	125.3	275.1	90	75-125
Cobalt	23.02	31.33	47.87	79	75-125
Copper	68.48	15.66	72.06	23 NM	75-125
Lead	9.166	125.3	114.0	84	75-125
Molybdenum	0.7111	25.06	20.43	79	75-125
Nickel	249.7	31.33	281.3	101 NM	75-125
Selenium	<0.1786	62.66	53.01	85	75-125
Silver	<0.1036	12.53	11.72	94	75-125
Thallium	<0.2262	62.66	50.94	81	75-125
Vanadium	49.52	31.33	80.83	100	75-125
Zinc	71.64	31.33	115.3	139 *	75-125

Type: MSD Moisture: 16%
Lab ID: QC261688

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	89.51	27.12	28 *	75-125	7	30
Arsenic	44.75	47.44	94	75-125	2	30
Barium	89.51	225.6	99	75-125	2	30
Beryllium	2.238	2.153	83	75-125	2	30
Cadmium	8.951	8.101	81	75-125	1	30
Chromium	89.51	238.1	85	75-125	1	30
Cobalt	22.38	38.40	69 *	75-125	4	30
Copper	11.19	68.03	-4 NM	75-125	0	30
Lead	89.51	81.01	80	75-125	3	30
Molybdenum	17.90	14.81	79	75-125	0	30
Nickel	22.38	264.1	64 NM	75-125	3	30
Selenium	44.75	39.21	88	75-125	3	30
Silver	8.951	8.280	93	75-125	1	30
Thallium	44.75	35.13	79	75-125	4	30
Vanadium	22.38	70.71	95	75-125	2	30
Zinc	22.38	88.17	74 *	75-125	18	30

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74334497057	Seqnum	: 74334497061
Filename	: tr245464	Filename	: tr245468
IDF	: 1.0	IDF	: 1.0
PDF	: 45.87	PDF	: 45.87
Run type	: MSS	Run type	: PDS
Samplenum	: 174074-001	Samplenum	: QC261692
Matrix	: Soil	Matrix	: Soil
Batchnum	: 93868	Batchnum	: 93868
Inj	: 19-AUG-2004 12:57	Inj	: 19-AUG-2004 13:20
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	20.90	2000	1920	95	16-120	u
Arsenic	77.10	1000	1010	93	62-120	u
Barium	1120	2000	3090	99	51-137	u
Beryllium	3.750	50.000000000001	47.50	88	70-120	u
Cadmium	8.140	200	185.0	88	61-120	u
Calcium	*** usable MSS data not found ***					
Chromium	1290	2000	2960	84	60-120	u
Cobalt	178.0	500.000000000001	593.0	83	56-120	u
Copper	301.0	250	517.0	86	47-144	u
Iron	*** usable MSS data not found ***					
Lead	1590	2000	3290	85	47-126	u
Magnesium	*** usable MSS data not found ***					
Manganese	3410	500.000000000001	3710	60	62-131	:
Molybdenum	5.220	400	387.0	95	57-120	u
Nickel	1080	500.000000000001	1470	78	41-138	u
Selenium	10.00	1000	935.0	93	35-122	u
Silver	ND	200	178.0	89	71-120	u
Thallium	ND	1000	885.0	89	53-120	u
Vanadium	985.0	500.000000000001	1390	81	48-136	u
Zinc	1670	500.000000000001	2080	82	38-144	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74334497057	Seqnum : 74334497058	Seqnum : 74334497059
Filename : tr245464	Filename : tr245465	Filename : tr245466
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174074-001	Samplenum: QC261689	Samplenum: QC261690
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 93868	Batchnum : 93868	Batchnum : 93868
Inj : 19-AUG-2004 12:57	Inj : 19-AUG-2004 13:01	Inj : 19-AUG-2004 13:06
Units : mg/Kg		

MSS: 1.09 g --> 50.0 ml = 45.87 ml/g PDF
MS: 1.34 g --> 50.0 ml = 37.31 ml/g PDF
MSD: 0.98 g --> 50.0 ml = 51.02 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***									
Antimony	0.9587	102.0	35.19	46	53.57	52	16-120	11	31	u
Arsenic	3.537	51.02	36.94	90	50.92	93	62-120	3	25	u
Barium	51.38	102.0	121.3	94	161.7	108	51-137	9	20	u
Beryllium	0.1720	2.551	1.802	87	2.444	89	70-120	1	20	u
Cadmium	0.3734	10.20	6.940	88	9.541	90	61-120	2	20	u
Calcium	*** usable MSS data not found ***									
Chromium	59.17	102.0	120.1	82	157.7	97	60-120	9	20	u
Cobalt	8.165	25.51	24.29	86	30.15	86	56-120	1	20	u
Copper	13.81	12.76	22.54	94	24.85	87	47-144	4	20	u
Iron	*** usable MSS data not found ***									
Lead	72.94	102.0	138.1	87	162.8	88	47-126	1	28	u
Magnesium	*** usable MSS data not found ***									
Manganese	156.4	25.51	188.1	170	179.1	89	62-131	9	20	:
Molybdenum	0.2394	20.41	12.28	81	17.76	86	57-120	6	20	u
Nickel	49.54	25.51	62.31	68	72.45	90	41-138	5	22	u
Selenium	0.4587	51.02	31.12	82	45.20	88	35-122	6	27	u
Silver	ND	10.20	6.679	90	9.235	91	71-120	1	20	u
Thallium	ND	51.02	31.90	86	44.85	88	53-120	3	23	u
Vanadium	45.18	25.51	62.31	92	71.43	103	48-136	3	20	u
Zinc	76.61	25.51	91.04	77	99.49	90	38-144	2	20	: u
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74334497057
Filename : tr245464
IDF : 1.0
PDF : 45.87
Run type : MSS
Samplenum: 174074-001
Matrix : Soil
Batchnum : 93868
Inj : 19-AUG-2004 12:57
Units : mg/Kg

Instid : MET07
Seqnum : 74334497060
Filename : tr245467
IDF : 5.0
PDF : 45.87
Run type : SER
Samplenum: QC261691
Matrix : Soil
Batchnum : 93868
Inj : 19-AUG-2004 13:16

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.75	ND	13.8	--	10	u
Arsenic	3.54	0.229	3.65	1.15	--	10	u
Barium	51.4	0.459	49.3	2.29	4	10	u
Beryllium	0.172	0.0917	ND	0.459	--	10	u
Cadmium	0.373	0.229	ND	1.15	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	59.2	0.459	58.5	2.29	1	10	u
Cobalt	8.17	0.917	8.26	4.59	1	10	u
Copper	13.8	0.459	12.9	2.29	6	10	u
Iron	*** usable MSS data not found ***						
Lead	72.9	0.138	72.9	0.688	0	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	156	0.459	152	2.29	3	10	
Molybdenum	ND	0.917	ND	4.59	--	10	u
Nickel	49.5	0.917	50.7	4.59	2	10	u
Selenium	0.459	0.229	ND	1.15	--	10	u
Silver	ND	0.229	ND	1.15	--	10	u
Thallium	ND	0.229	ND	1.15	--	10	u
Vanadium	45.2	0.459	44.3	2.29	2	10	u
Zinc	76.6	0.917	79.4	4.59	4	10	u
Titanium	*** usable MSS data not found ***						

u=use

Method: 6010B Standard: blank
Run Time: 08/19/04 06:44:28

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.004	.002	.000	.004	-.279	.004	.000
SDev	.001	.002	.001	.000	.004	.001	.000
%RSD	24.3	85.1	171.	4.97	1.43	35.5	66.3
#1	-.005	.004	-.000	.004	-.282	.003	.001
#2	-.003	.001	.001	.004	-.276	.005	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.007	.003	-.002	.005	.002	-.009
SDev	.000	.001	.000	.001	.000	.001	.001
%RSD	98.7	14.1	12.2	49.9	5.16	27.4	7.86
#1	-.000	.007	.003	-.002	.005	.003	-.010
#2	-.000	.006	.003	-.001	.005	.002	-.009

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	.000	-.003	.001	.038	.0733	-.0033
SDev	.001	.001	.001	.000	.001	.0013	.0000
%RSD	8.64	345.	24.4	40.1	3.48	1.766	.5996
#1	.006	.000	-.003	.001	.039	.0742	-.0033
#2	.007	-.000	-.002	.000	.037	.0724	-.0033

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0021	.0005	.001	.172
SDev	.0005	.0003	.001	.003
%RSD	23.65	65.63	101.	1.49
#1	-.0017	.0007	.002	.174
#2	-.0024	.0003	.000	.171

Method: 6010B Standard: cst hi
Run Time: 08/19/04 06:50:24

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.58	.878	.373	18.4	3.44	1.37	.274
SDev	.07	.034	.018	1.0	.18	.06	.015
%RSD	4.47	3.82	4.94	5.16	5.23	4.57	5.43
#1	1.63	.902	.386	19.1	3.57	1.41	.284
#2	1.53	.854	.360	17.8	3.31	1.32	.263

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.899	.599	1.03	1.01	2.72	2.36	.433
SDev	.047	.032	.04	.06	.12	.12	.018
%RSD	5.19	5.32	3.67	6.09	4.55	5.10	4.12
#1	.932	.621	1.06	1.05	2.81	2.45	.446
#2	.866	.576	1.01	.967	2.64	2.28	.421

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.482	.325	.258	1.00	.248	.1949	.3307
SDev	.026	.017	.013	.05	.013	.0096	.0167
%RSD	5.50	5.11	5.20	5.29	5.07	4.939	5.064
#1	.501	.337	.268	1.04	.256	.2017	.3425
#2	.464	.313	.249	.967	.239	.1881	.3188

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1361	.2025	1.29	7.77
SDev	.0069	.0106	.07	.40
%RSD	5.043	5.240	5.26	5.20
#1	.1410	.2100	1.34	8.05
#2	.1313	.1950	1.24	7.48

Standardization Report 08/19/04 06:54:09 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	628.344	2.64683	08/19/04 06:50:24
Sb206A	206.832	Multiple	Standards	1119.37	-2.52873	08/19/04 06:50:24
As1890	189.042	Multiple	Standards	1343.44	-.559490	08/19/04 06:50:24
Ba4934	493.409	Multiple	Standards	54.2244	-.203354	08/19/04 06:50:24
Be3130	313.042	Multiple	Standards	25.9519	7.23535	08/19/04 06:50:24
Cd2265	226.502	Multiple	Standards	73.3707	-.298779	08/19/04 06:50:24
Cr2677	267.716	Multiple	Standards	732.340	-.295239	08/19/04 06:50:24
Co2286	228.616	Multiple	Standards	557.237	.161647	08/19/04 06:50:24
Cu3247	324.754	Multiple	Standards	337.738	-2.27352	08/19/04 06:50:24
Pb2203	220.351	Multiple	Standards	485.798	-1.34074	08/19/04 06:50:24
Pb220A	220.352	Multiple	Standards	489.645	.793810	08/19/04 06:50:24
Mo2020	202.030	Multiple	Standards	367.793	-1.72464	08/19/04 06:50:24
Ni2316	231.604	Multiple	Standards	211.893	-.506233	08/19/04 06:50:24
Se1960	196.021	Multiple	Standards	1129.32	10.6764	08/19/04 06:50:24
Se196A	196.022	Multiple	Standards	1049.50	-6.84001	08/19/04 06:50:24
Ag3280	328.068	Multiple	Standards	308.058	-.041263	08/19/04 06:50:24
Tl1908	190.864	Multiple	Standards	1930.49	5.34452	08/19/04 06:50:24
V_2924	292.402	Multiple	Standards	498.328	-.297964	08/19/04 06:50:24
Zn2138	213.856	Multiple	Standards	492.717	-18.7000	08/19/04 06:50:24
Al3082	308.215	Multiple	Standards	8377.99	-614.327	08/19/04 06:50:24
Ca3179	317.933	Multiple	Standards	5987.89	19.9154	08/19/04 06:50:24
Fe2714	271.441	Multiple	Standards	7574.40	15.5606	08/19/04 06:50:24
Mg2790	279.079	Multiple	Standards	9895.05	-4.74356	08/19/04 06:50:24
Mn2576	257.610	Multiple	Standards	77.5590	-.081368	08/19/04 06:50:24
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/19/04 06:50:24
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/19/04 06:50:24
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/19/04 06:50:24
Ti3349	334.941	Multiple	Standards	131.646	-22.7008	08/19/04 06:50:24

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497001
Run Name :
Filename : tr245407
Injected : 19-AUG-2004 06:57
Caltype :

Standards: 04WS1530

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1003.000	ug/L	0	5	
Antimony	1000.000	971.0000	ug/L	-3	5	
Arsenic	500.0000	499.0000	ug/L	0	5	
Barium	1000.000	1020.000	ug/L	2	5	
Beryllium	100.0000	98.50000	ug/L	-2	5	
Cadmium	100.0000	98.60000	ug/L	-1	5	
Calcium	2000.000	1949.000	ug/L	-3	5	
Chromium	200.0000	198.0000	ug/L	-1	5	
Cobalt	500.0000	493.0000	ug/L	-1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	978.2000	ug/L	-2	5	
Lead	500.0000	495.0000	ug/L	-1	5	
Magnesium	2000.000	1951.000	ug/L	-2	5	
Manganese	100.0000	98.60000	ug/L	-1	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	493.0000	ug/L	-1	5	
Selenium	500.0000	518.0000	ug/L	4	5	
Silver	100.0000	98.40000	ug/L	-2	5	
Thallium	500.0000	501.0000	ug/L	0	5	
Titanium	1000.000	998.0000	ug/L	0	5	
Vanadium	500.0000	496.0000	ug/L	-1	5	
Zinc	100.0000	98.20000	ug/L	-2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497002
Run Name :
Filename : tr245408
Injected : 19-AUG-2004 07:09
Caltype :

Standards: 04WS1316

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	453.8000	ug/L	-9	10	
Antimony	500.0000	532.0000	ug/L	6	10	
Arsenic	250.0000	249.0000	ug/L	0	10	
Barium	500.0000	488.0000	ug/L	-2	10	
Beryllium	50.00000	49.40000	ug/L	-1	10	
Cadmium	50.00000	49.40000	ug/L	-1	10	
Calcium	1000.000	994.3000	ug/L	-1	10	
Chromium	100.0000	99.90000	ug/L	0	10	
Cobalt	250.0000	243.0000	ug/L	-3	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	500.0000	499.8000	ug/L	0	10	
Lead	250.0000	247.0000	ug/L	-1	10	
Magnesium	1000.000	986.6000	ug/L	-1	10	
Manganese	50.00000	48.70000	ug/L	-3	10	
Molybdenum	500.0000	496.0000	ug/L	-1	10	
Nickel	250.0000	246.0000	ug/L	-2	10	
Selenium	250.0000	233.0000	ug/L	-7	10	
Silver	50.00000	49.90000	ug/L	0	10	
Thallium	250.0000	237.0000	ug/L	-5	10	
Titanium	500.0000	514.0000	ug/L	3	10	
Vanadium	250.0000	247.0000	ug/L	-1	10	
Zinc	50.00000	53.10000	ug/L	6	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497004
Run Name :
Filename : tr245410
Injected : 19-AUG-2004 07:23
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	104.2000	ug/L	4	50	
Antimony	60.00000	76.90000	ug/L	28	50	
Arsenic	5.000000	7.630000	ug/L	**53**	50	cri+ ***
Barium	10.00000	9.990000	ug/L	0	50	
Beryllium	2.000000	1.850000	ug/L	-8	50	
Cadmium	5.000000	5.060000	ug/L	1	50	
Calcium	200.0000	226.3000	ug/L	13	50	
Chromium	10.00000	11.90000	ug/L	19	50	
Cobalt	20.00000	19.90000	ug/L	-1	50	
Copper	10.00000	12.10000	ug/L	21	50	
Iron	100.0000	155.6000	ug/L	**56**	50	cri+ ***
Lead	3.000000	2.640000	ug/L	-12	50	
Magnesium	200.0000	207.5000	ug/L	4	50	
Manganese	10.00000	10.40000	ug/L	4	50	
Molybdenum	20.00000	26.30000	ug/L	32	50	
Nickel	20.00000	21.40000	ug/L	7	50	
Selenium	5.000000	6.410000	ug/L	28	50	
Silver	5.000000	5.150000	ug/L	3	50	
Thallium	5.000000	3.460000	ug/L	-31	50	
Vanadium	10.00000	10.50000	ug/L	5	50	
Zinc	20.00000	18.70000	ug/L	-7	50	

+=high bias

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497005

Run Name :
Filename : tr245411

Injected : 19-AUG-2004 07:34
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	75.33000	ug/L	-25	50	
Antimony	60.00000	61.50000	ug/L	3	50	
Arsenic	5.000000	6.550000	ug/L	31	50	
Barium	10.00000	9.130000	ug/L	-9	50	
Beryllium	2.000000	1.770000	ug/L	-12	50	
Cadmium	5.000000	4.770000	ug/L	-5	50	
Calcium	200.0000	227.3000	ug/L	14	50	
Chromium	10.00000	9.670000	ug/L	-3	50	
Cobalt	20.00000	18.60000	ug/L	-7	50	
Copper	10.00000	11.30000	ug/L	13	50	
Iron	100.0000	101.3000	ug/L	1	50	
Lead	3.000000	3.190000	ug/L	6	50	
Magnesium	200.0000	201.3000	ug/L	1	50	
Manganese	10.00000	9.530000	ug/L	-5	50	
Molybdenum	20.00000	20.00000	ug/L	0	50	
Nickel	20.00000	18.50000	ug/L	-8	50	
Selenium	5.000000	5.060000	ug/L	1	50	
Silver	5.000000	4.600000	ug/L	-8	50	
Thallium	5.000000	2.890000	ug/L	-42	50	
Vanadium	10.00000	9.900000	ug/L	-1	50	
Zinc	20.00000	15.80000	ug/L	-21	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497015

Run Name :
Filename : tr245421

IDF : 1.0
Injected : 19-AUG-2004 08:38
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	427.7000	ug/L	-14	10	c- **
Antimony		500.0000	490.0000	ug/L	-2	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	478.0000	ug/L	-4	10	
Beryllium		50.00000	47.80000	ug/L	-4	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	972.8000	ug/L	-3	10	
Chromium		100.0000	96.80000	ug/L	-3	10	
Cobalt		250.0000	235.0000	ug/L	-6	10	
Copper		100.0000	99.80000	ug/L	0	10	
Iron		500.0000	514.4000	ug/L	3	10	
Lead		250.0000	241.0000	ug/L	-4	10	
Magnesium		1000.000	968.1000	ug/L	-3	10	
Manganese		50.00000	47.40000	ug/L	-5	10	
Molybdenum		500.0000	485.0000	ug/L	-3	10	
Nickel		250.0000	242.0000	ug/L	-3	10	
Selenium		250.0000	230.0000	ug/L	-8	10	
Silver		50.00000	47.90000	ug/L	-4	10	
Thallium		250.0000	228.0000	ug/L	-9	10	
Titanium		500.0000	500.0000	ug/L	0	10	
Vanadium		250.0000	238.0000	ug/L	-5	10	
Zinc		50.00000	51.90000	ug/L	4	10	

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497027

Run Name :
Filename : tr245433

IDF : 1.0
Injected : 19-AUG-2004 09:39
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	691.5000	ug/L	-8	10	
Antimony		750.0000	717.0000	ug/L	-4	10	
Arsenic		375.0000	354.0000	ug/L	-6	10	
Barium		750.0000	704.0000	ug/L	-6	10	
Beryllium		75.00000	72.50000	ug/L	-3	10	
Cadmium		75.00000	71.30000	ug/L	-5	10	
Calcium		1500.000	1453.000	ug/L	-3	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	354.0000	ug/L	-6	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	730.3000	ug/L	-3	10	
Lead		375.0000	362.0000	ug/L	-3	10	
Magnesium		1500.000	1448.000	ug/L	-3	10	
Manganese		75.00000	70.80000	ug/L	-6	10	
Molybdenum		750.0000	725.0000	ug/L	-3	10	
Nickel		375.0000	357.0000	ug/L	-5	10	
Selenium		375.0000	353.0000	ug/L	-6	10	
Silver		75.00000	73.10000	ug/L	-3	10	
Thallium		375.0000	344.0000	ug/L	-8	10	
Titanium		750.0000	746.0000	ug/L	-1	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	75.40000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 74334497039 Filename : tr245445 Injected : 19-AUG-2004 10:54
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	464.4000	ug/L	-7	10	
Antimony		500.0000	478.0000	ug/L	-4	10	
Arsenic		250.0000	239.0000	ug/L	-4	10	
Barium		500.0000	469.0000	ug/L	-6	10	
Beryllium		50.00000	48.40000	ug/L	-3	10	
Cadmium		50.00000	48.10000	ug/L	-4	10	
Calcium		1000.000	958.2000	ug/L	-4	10	
Chromium		100.0000	97.50000	ug/L	-3	10	
Cobalt		250.0000	236.0000	ug/L	-6	10	
Copper		100.0000	98.10000	ug/L	-2	10	
Iron		500.0000	473.4000	ug/L	-5	10	
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	965.6000	ug/L	-3	10	
Manganese		50.00000	46.50000	ug/L	-7	10	
Molybdenum		500.0000	483.0000	ug/L	-3	10	
Nickel		250.0000	241.0000	ug/L	-4	10	
Selenium		250.0000	230.0000	ug/L	-8	10	
Silver		50.00000	48.20000	ug/L	-4	10	
Thallium		250.0000	229.0000	ug/L	-8	10	
Titanium		500.0000	496.0000	ug/L	-1	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	48.30000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497050
Run Name :
Filename : tr245457
IDF : 1.0
Injected : 19-AUG-2004 12:15
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	685.8000	ug/L	-9	10	
Antimony		750.0000	727.0000	ug/L	-3	10	
Arsenic		375.0000	364.0000	ug/L	-3	10	
Barium		750.0000	714.0000	ug/L	-5	10	
Beryllium		75.00000	72.20000	ug/L	-4	10	
Cadmium		75.00000	73.80000	ug/L	-2	10	
Calcium		1500.000	1380.000	ug/L	-8	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	353.0000	ug/L	-6	10	
Copper		150.0000	143.0000	ug/L	-5	10	
Iron		750.0000	697.5000	ug/L	-7	10	
Lead		375.0000	364.0000	ug/L	-3	10	
Magnesium		1500.000	1442.000	ug/L	-4	10	
Manganese		75.00000	68.50000	ug/L	-9	10	
Molybdenum		750.0000	740.0000	ug/L	-1	10	
Nickel		375.0000	365.0000	ug/L	-3	10	
Selenium		375.0000	366.0000	ug/L	-2	10	
Silver		75.00000	71.40000	ug/L	-5	10	
Thallium		375.0000	350.0000	ug/L	-7	10	
Titanium		750.0000	741.0000	ug/L	-1	10	
Vanadium		375.0000	354.0000	ug/L	-6	10	
Zinc		75.00000	76.90000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497062
Run Name :
Filename : tr245469
IDF : 1.0
Injected : 19-AUG-2004 13:28
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	496.1000	ug/L	-1	10	
Antimony		500.0000	492.0000	ug/L	-2	10	
Arsenic		250.0000	255.0000	ug/L	2	10	
Barium		500.0000	493.0000	ug/L	-1	10	
Beryllium		50.00000	48.10000	ug/L	-4	10	
Cadmium		50.00000	51.20000	ug/L	2	10	
Calcium		1000.000	909.4000	ug/L	-9	10	
Chromium		100.0000	98.20000	ug/L	-2	10	
Cobalt		250.0000	236.0000	ug/L	-6	10	
Copper		100.0000	94.90000	ug/L	-5	10	
Iron		500.0000	507.3000	ug/L	1	10	
Lead		250.0000	245.0000	ug/L	-2	10	
Magnesium		1000.000	975.5000	ug/L	-2	10	
Manganese		50.00000	45.70000	ug/L	-9	10	
Molybdenum		500.0000	491.0000	ug/L	-2	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	246.0000	ug/L	-2	10	
Silver		50.00000	47.10000	ug/L	-6	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	501.0000	ug/L	0	10	
Vanadium		250.0000	236.0000	ug/L	-6	10	
Zinc		50.00000	50.40000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497074
Run Name :
Filename : tr245482
IDF : 1.0
Injected : 19-AUG-2004 14:47
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	697.3000	ug/L	-7	10	
Antimony		750.0000	726.0000	ug/L	-3	10	
Arsenic		375.0000	371.0000	ug/L	-1	10	
Barium		750.0000	743.0000	ug/L	-1	10	
Beryllium		75.00000	69.70000	ug/L	-7	10	
Cadmium		75.00000	76.80000	ug/L	2	10	
Calcium		1500.000	1279.000	ug/L	**-15**	10	c- **
Chromium		150.0000	143.0000	ug/L	-5	10	
Cobalt		375.0000	346.0000	ug/L	-8	10	
Copper		150.0000	137.0000	ug/L	-9	10	
Iron		750.0000	683.8000	ug/L	-9	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1406.000	ug/L	-6	10	
Manganese		75.00000	65.50000	ug/L	**-13**	10	c- **
Molybdenum		750.0000	703.0000	ug/L	-6	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	358.0000	ug/L	-5	10	
Silver		75.00000	68.90000	ug/L	-8	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	728.0000	ug/L	-3	10	
Vanadium		375.0000	343.0000	ug/L	-9	10	
Zinc		75.00000	77.20000	ug/L	3	10	

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497082

Run Name :
Filename : tr245491

IDF : 1.0
Injected : 19-AUG-2004 16:14
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	774.0000	ug/L	3	10	
Antimony		750.0000	722.0000	ug/L	-4	10	
Arsenic		375.0000	372.0000	ug/L	-1	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	75.30000	ug/L	0	10	
Cadmium		75.00000	75.90000	ug/L	1	10	
Calcium		1500.000	1516.000	ug/L	1	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	755.5000	ug/L	1	10	
Lead		375.0000	376.0000	ug/L	0	10	
Magnesium		1500.000	1534.000	ug/L	2	10	
Manganese		75.00000	73.40000	ug/L	-2	10	
Molybdenum		750.0000	730.0000	ug/L	-3	10	
Nickel		375.0000	375.0000	ug/L	0	10	
Selenium		375.0000	350.0000	ug/L	-7	10	
Silver		75.00000	75.80000	ug/L	1	10	
Thallium		375.0000	362.0000	ug/L	-3	10	
Titanium		750.0000	777.0000	ug/L	4	10	
Vanadium		375.0000	371.0000	ug/L	-1	10	
Zinc		75.00000	76.20000	ug/L	2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497003 Run Name:
Filename: tr245409 Run Type: ICB

Injected: 19-AUG-2004 07:17

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[6.4600]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.4280]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497016 Run Name: Injected: 19-AUG-2004 08:51
Filename: tr245422 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[2.6000]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[34.740]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.2600]	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.2700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.8100]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497028 Run Name: Injected: 19-AUG-2004 09:45
Filename: tr245434 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[37.660]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.3900]	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[7.8200]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.9000]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.1600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497040 Run Name: Injected: 19-AUG-2004 11:02
Filename: tr245446 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.5370]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.380]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[4.3300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.7780]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	[5.5600]	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497051 Run Name: Injected: 19-AUG-2004 12:20
Filename: tr245458 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[4.4900]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[27.050]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[12.800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[4.0200]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.8740]	10.00000	ug/L	<RL
Vanadium	[0.9850]	10.00000	ug/L	<RL
Zinc	[7.5300]	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497063 Run Name: Injected: 19-AUG-2004 13:36
Filename: tr245470 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[2.3700]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.7940]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[20.830]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[13.240]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.3900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.3200]	5.000000	ug/L	<RL
Titanium	[1.0600]	10.00000	ug/L	<RL
Vanadium	[0.7760]	10.00000	ug/L	<RL
Zinc	[6.1600]	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497075 Run Name: Injected: 19-AUG-2004 15:01
Filename: tr245483 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[1.4400]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[8.5500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.7130]	10.00000	ug/L	<RL
Vanadium	[0.8340]	10.00000	ug/L	<RL
Zinc	[6.4000]	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497083 Run Name: Injected: 19-AUG-2004 16:23
Filename: tr245492 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[28.360]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[17.610]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.8400]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.7800]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.5200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74334497006 Run Name:
Filename: tr245412 Run Type: ICSA

Injected: 19-AUG-2004 07:43

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[5.4900]	60.00000	ug/L	<RL	
Arsenic	[-2.370]	5.000000	ug/L	<RL	
Barium	[-0.141]	10.00000	ug/L	<RL	
Beryllium	[-0.890]	2.000000	ug/L	<RL	
Cadmium	[-0.645]	5.000000	ug/L	<RL	
Chromium	[3.2200]	10.00000	ug/L	<RL	
Cobalt	[0.4050]	10.00000	ug/L	<RL	
Copper	[-1.050]	10.00000	ug/L	<RL	
Lead	[-0.755]	3.000000	ug/L	<RL	
Manganese	[2.1700]	10.00000	ug/L	<RL	
Molybdenum	[-1.410]	20.00000	ug/L	<RL	
Nickel	[1.6700]	20.00000	ug/L	<RL	
Selenium	[2.5100]	5.000000	ug/L	<RL	
Silver	[-0.196]	5.000000	ug/L	<RL	
Thallium	[-2.910]	5.000000	ug/L	<RL	
Titanium	21.70000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-5.150]	10.00000	ug/L	<RL	
Zinc	[3.6200]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	511000	ug/L	102
Calcium	500000	443300.	ug/L	89
Iron	200000	175500	ug/L	88
Magnesium	500000	505200	ug/L	101

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497007
Run Name :
Filename : tr245413
Injected : 19-AUG-2004 07:47
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	541900.0	ug/L	8		
Antimony	500.0000	523.0000	ug/L	5	20	
Arsenic	500.0000	485.0000	ug/L	-3	20	
Barium	500.0000	463.0000	ug/L	-7	20	
Beryllium	500.0000	492.0000	ug/L	-2	20	
Cadmium	1000.000	853.0000	ug/L	-15	20	
Calcium	500000.0	472200.0	ug/L	-6		
Chromium	500.0000	462.0000	ug/L	-8	20	
Cobalt	500.0000	465.0000	ug/L	-7	20	
Copper	500.0000	534.0000	ug/L	7	20	
Iron	200000.0	184900.0	ug/L	-8		
Lead	1000.000	944.0000	ug/L	-6	20	
Magnesium	500000.0	532700.0	ug/L	7		
Manganese	500.0000	469.0000	ug/L	-6	20	
Molybdenum	500.0000	464.0000	ug/L	-7	20	
Nickel	1000.000	856.0000	ug/L	-14	20	
Selenium	500.0000	488.0000	ug/L	-2	20	
Silver	1000.000	888.0000	ug/L	-11	20	
Thallium	500.0000	453.0000	ug/L	-9	20	
Titanium	20000.00	21700.00	ug/L	9		
Vanadium	500.0000	473.0000	ug/L	-5	20	
Zinc	1000.000	969.0000	ug/L	-3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74334497038 Filename : tr245444 Injected : 19-AUG-2004 10:38
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	512200.0	ug/L	2		
Antimony	500.0000	514.0000	ug/L	3	20	
Arsenic	500.0000	491.0000	ug/L	-2	20	
Barium	500.0000	471.0000	ug/L	-6	20	
Beryllium	500.0000	469.0000	ug/L	-6	20	
Cadmium	1000.000	875.0000	ug/L	-13	20	
Calcium	500000.0	426800.0	ug/L	-15		
Chromium	500.0000	454.0000	ug/L	-9	20	
Cobalt	500.0000	453.0000	ug/L	-9	20	
Copper	500.0000	503.0000	ug/L	1	20	
Iron	200000.0	175500.0	ug/L	-12		
Lead	1000.000	925.0000	ug/L	-8	20	
Magnesium	500000.0	517000.0	ug/L	3		
Manganese	500.0000	444.0000	ug/L	-11	20	
Molybdenum	500.0000	457.0000	ug/L	-9	20	
Nickel	1000.000	857.0000	ug/L	-14	20	
Selenium	500.0000	484.0000	ug/L	-3	20	
Silver	1000.000	863.0000	ug/L	-14	20	
Thallium	500.0000	451.0000	ug/L	-10	20	
Titanium	20000.00	21200.00	ug/L	6		
Vanadium	500.0000	457.0000	ug/L	-9	20	
Zinc	1000.000	1000.000	ug/L	0	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74334497081
Run Name :
Filename : tr245490
Injected : 19-AUG-2004 16:06
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	502200.0	ug/L	0		
Antimony	500.0000	507.0000	ug/L	1	20	
Arsenic	500.0000	505.0000	ug/L	1	20	
Barium	500.0000	490.0000	ug/L	-2	20	
Beryllium	500.0000	467.0000	ug/L	-7	20	
Cadmium	1000.000	896.0000	ug/L	-10	20	
Calcium	500000.0	436700.0	ug/L	-13		
Chromium	500.0000	459.0000	ug/L	-8	20	
Cobalt	500.0000	458.0000	ug/L	-8	20	
Copper	500.0000	523.0000	ug/L	5	20	
Iron	200000.0	181700.0	ug/L	-9		
Lead	1000.000	939.0000	ug/L	-6	20	
Magnesium	500000.0	521900.0	ug/L	4		
Manganese	500.0000	455.0000	ug/L	-9	20	
Molybdenum	500.0000	460.0000	ug/L	-8	20	
Nickel	1000.000	872.0000	ug/L	-13	20	
Selenium	500.0000	490.0000	ug/L	-2	20	
Silver	1000.000	894.0000	ug/L	-11	20	
Thallium	500.0000	468.0000	ug/L	-6	20	
Titanium	20000.00	21600.00	ug/L	8		
Vanadium	500.0000	467.0000	ug/L	-7	20	
Zinc	1000.000	997.0000	ug/L	0	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 74334497 Instrument: MET07 TJA Trace ICP Begun: 19-AUG-2004
alytical Method: EPA 6010B SOP Version: 6010B_rv7

	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
1	tr245407	CS				19-AUG-2004 06:57	1.0	1.0				1	
2	tr245408	ICV				19-AUG-2004 07:09	1.0	1.0				2	
3	tr245409	ICB				19-AUG-2004 07:17	1.0	1.0					
4	tr245410	CRI				19-AUG-2004 07:23	1.0	1.0	2			3	
5	tr245411	CRI				19-AUG-2004 07:34	1.0	1.0				3	
6	tr245412	ICSA				19-AUG-2004 07:43	1.0	1.0	1			4	4:AL=511000
7	tr245413	ICSAB				19-AUG-2004 07:47	1.0	1.0				5	5:AL=541900
8	tr245414	BLANK	QC261677	93867	Soil	19-AUG-2004 07:58	1.0	50.0	2				
9	tr245415	BS	QC261678	93867	Soil	19-AUG-2004 08:02	1.0	50.0	2				
10	tr245416	BSD	QC261679	93867	Soil	19-AUG-2004 08:07	1.0	50.0	2				
11	tr245417	MSS	174073-001	93867	Soil	19-AUG-2004 08:13	1.0	45.05	3				3:FE=306100
12	tr245418	SER	QC261682	93867	Soil	19-AUG-2004 08:23	5.0	45.05	1	1			
13	tr245419	SER	QC261682	93867	Soil	19-AUG-2004 08:27	5.0	45.05		1			
14	tr245420	PDS	QC261683	93867	Soil	19-AUG-2004 08:31	1.0	45.05				6 7	3:FE=316100
15	tr245421	CCV				19-AUG-2004 08:38	1.0	1.0	1			8	
16	tr245422	CCB				19-AUG-2004 08:51	1.0	1.0					
17	tr245423	MS	QC261680	93867	Soil	19-AUG-2004 08:55	1.0	37.31					3:FE=349600
18	tr245424	MSD	QC261681	93867	Soil	19-AUG-2004 08:59	1.0	37.88					3:FE=355600
19	tr245425	SAMPLE	174056-004	93867	Soil	19-AUG-2004 09:05	1.0	38.17					5:FE=544400
20	tr245426	SAMPLE	174056-005	93867	Soil	19-AUG-2004 09:09	1.0	43.48					5:FE=646600
21	tr245427	SAMPLE	174056-006	93867	Soil	19-AUG-2004 09:13	1.0	49.02					6:FE=1649000
22	tr245428	SAMPLE	174056-010	93867	Soil	19-AUG-2004 09:17	1.0	41.32					4:FE=532500
23	tr245429	SAMPLE	174056-015	93867	Soil	19-AUG-2004 09:21	1.0	31.45					4:FE=683700
24	tr245430	SAMPLE	174056-025	93867	Soil	19-AUG-2004 09:25	1.0	44.64					5:FE=797600
25	tr245431	SAMPLE	174066-001	93867	Miscel	19-AUG-2004 09:29	1.0	41.32	1				1:V=21400.0
26	tr245432	SAMPLE	174066-001	93867	Miscel	19-AUG-2004 09:34	2.0	41.32					
27	tr245433	CCV				19-AUG-2004 09:39	1.0	1.0				9	
28	tr245434	CCB				19-AUG-2004 09:45	1.0	1.0					
29	tr245435	SAMPLE	174066-002	93867	Miscel	19-AUG-2004 09:52	1.0	40.32	1				1:V=23800.0
30	tr245436	SAMPLE	174066-002	93867	Miscel	19-AUG-2004 09:57	2.0	40.32					

tds used: 1=04WS1530 2=04WS1316 3=04WS1488 4=04WS1124 5=04WS1256 6=04SS171 7=04SS172 8=04WS1317 9=04WS1319
Flags used: spk=5% spike rule

Analyst: [illegible] Date: 8/19/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74334497 Instrument: MET07 TJA Trace ICP Begun: 19-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	tr245437	SAMPLE	174073-002	93867	Soil	19-AUG-2004 10:00	1.0	43.48				3:FE=319600
032	tr245438	SAMPLE	174073-003	93867	Soil	19-AUG-2004 10:04	1.0	33.56				4:FE=490100
033	tr245439	SAMPLE	174073-004	93867	Soil	19-AUG-2004 10:09	1.0	34.01				3:FE=440200
034	tr245440	SAMPLE	174073-005	93867	Soil	19-AUG-2004 10:16	1.0	47.62	1			3:FE=299000
035	tr245441	SAMPLE	174073-005	93867	Soil	19-AUG-2004 10:21	1.0	47.62				3:FE=310800
036	tr245442	SAMPLE	174088-001	93867	Soil	19-AUG-2004 10:26	1.0	53.19				3:FE=324000
037	tr245443	SAMPLE	174088-002	93867	Soil	19-AUG-2004 10:30	1.0	49.02				3:FE=340000
038	tr245444	ICSAB				19-AUG-2004 10:38	1.0	1.0			5	5:MG=517000
039	tr245445	CCV				19-AUG-2004 10:54	1.0	1.0			8	
040	tr245446	CCB				19-AUG-2004 11:02	1.0	1.0				
041	tr245447	BLANK	QC261693	93869	Air	19-AUG-2004 11:10	1.0	600.2	1			
042	tr245449	BS	QC261694	93869	Air	19-AUG-2004 11:19	1.0	600.2	1	2	spk	
043	tr245450	BSD	QC261695	93869	Air	19-AUG-2004 11:24	1.0	600.2	1	1		
044	tr245451	MSS	173988-001	93869	Air	19-AUG-2004 11:31	1.0	600.2	2			
045	tr245452	MS	QC261696	93869	Air	19-AUG-2004 11:35	1.0	600.2		2		
046	tr245453	MSD	QC261697	93869	Air	19-AUG-2004 11:39	1.0	600.2				
047	tr245454	SAMPLE	173988-002	93869	Air	19-AUG-2004 11:47	1.0	600.2				
048	tr245455	SAMPLE	173988-003	93869	Air	19-AUG-2004 11:51	1.0	600.2				
049	tr245456	BLANK	QC261684	93868	Soil	19-AUG-2004 12:06	1.0	50.0	1			
050	tr245457	CCV				19-AUG-2004 12:15	1.0	1.0			9	
051	tr245458	CCB				19-AUG-2004 12:20	1.0	1.0				
052	tr245459	BS	QC261685	93868	Soil	19-AUG-2004 12:29	1.0	50.0	1			
053	tr245460	BSD	QC261686	93868	Soil	19-AUG-2004 12:33	1.0	50.0	1			
054	tr245461	MSS	174065-001	93868	Soil	19-AUG-2004 12:39	1.0	44.25	6			5:MG=777800
055	tr245462	MS	QC261687	93868	Soil	19-AUG-2004 12:44	1.0	52.63				5:CA=696000
056	tr245463	MSD	QC261688	93868	Soil	19-AUG-2004 12:48	1.0	37.59				5:MG=866600
057	tr245464	MSS	174074-001	93868	Soil	19-AUG-2004 12:57	1.0	45.87	5			5:FE=350200
058	tr245465	MS	QC261689	93868	Soil	19-AUG-2004 13:01	1.0	37.31				5:FE=437300
059	tr245466	MSD	QC261690	93868	Soil	19-AUG-2004 13:06	1.0	51.02				5:FE=350300
060	tr245467	SER	QC261691	93868	Soil	19-AUG-2004 13:16	5.0	45.87				

Stds used: 1=04WS1530 2=04WS1316 3=04WS1488 4=04WS1124 5=04WS1256 6=04SS171 7=04SS172 8=04WS1317 9=04WS1319
Flags used: spk=5% spike rule

Analyst: [signature] Date: 8/19/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 74334497 Instrument: MET07 TJA Trace ICP Begun: 19-AUG-2004
nalytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
51	tr245468	PDS	QC261692	93868	Soil	19-AUG-2004 13:20	1.0	45.87			6 7	5:FE=355400
52	tr245469	CCV				19-AUG-2004 13:28	1.0	1.0			8	
53	tr245470	CCB				19-AUG-2004 13:36	1.0	1.0				
54	tr245471	MSD	QC261397	93797	Soil	19-AUG-2004 13:40	1.0	52.63	2	4		3:MG=161800
55	tr245472	SAMPLE	174014-001	93797	Soil	19-AUG-2004 13:44	1.0	48.54				2:FE=256700
56	tr245473	MSS	174065-001	93868	Soil	19-AUG-2004 13:48	1.0	44.25	6			5:MG=762500
57	tr245474	SAMPLE	174056-020	93868	Soil	19-AUG-2004 13:53	1.0	51.55				5:FE=402800
58	tr245475	SAMPLE	174062-001	93868	Soil	19-AUG-2004 13:57	1.0	45.05				4:FE=234400
59	tr245476	SAMPLE	174065-002	93868	Soil	19-AUG-2004 14:02	1.0	54.35				5:CA=929500
70	tr245477	SAMPLE	174068-001	93868	Soil	19-AUG-2004 14:06	1.0	36.76				6:MG=874000
71	tr245478	SAMPLE	174068-002	93868	Soil	19-AUG-2004 14:11	1.0	33.11				6:FE=1131000
72	tr245479	SAMPLE	174080-005	93868	Soil	19-AUG-2004 14:15	1.0	47.62				5:FE=458300
73	tr245480	SAMPLE	174087-005	93868	Soil	19-AUG-2004 14:20	1.0	51.55				5:FE=877600
74	tr245482	CCV				19-AUG-2004 14:47	1.0	1.0	2		9	
75	tr245483	CCB				19-AUG-2004 15:01	1.0	1.0				
76	tr245484	SAMPLE	174087-014	93868	Soil	19-AUG-2004 15:26	1.0	35.97				4:FE=510400
77	tr245486	SAMPLE	174087-015	93868	Soil	19-AUG-2004 15:36	1.0	47.17	1			7:CA=882400
78	tr245487	SAMPLE	174087-016	93868	Soil	19-AUG-2004 15:40	1.0	50.0				5:FE=438000
79	tr245488	SAMPLE	174087-017	93868	Soil	19-AUG-2004 15:45	1.0	46.30				5:FE=728300
80	tr245489	SAMPLE	174087-015	93868	Soil	19-AUG-2004 15:59	10.0	47.17				
81	tr245490	ICSAB				19-AUG-2004 16:06	1.0	1.0			5	5:MG=521900
82	tr245491	CCV				19-AUG-2004 16:14	1.0	1.0			9	
83	tr245492	CCB				19-AUG-2004 16:23	1.0	1.0				

tds used: 1=04WS1530 2=04WS1316 3=04WS1488 4=04WS1124 5=04WS1256 6=04SS171 7=04SS172 8=04WS1317 9=04WS1319
lags used: spk=5% spike rule

nalyst: [signature] Date: 8/19/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 174074 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
174074-001	MET07	08/19/04 12:57	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
174074-001	MET04	08/20/04 13:41	1.0										+							
QC261684	MET07	08/19/04 12:06	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261685	MET07	08/19/04 12:29	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261686	MET07	08/19/04 12:33	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261687	MET07	08/19/04 12:44	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261688	MET07	08/19/04 12:48	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261689	MET07	08/19/04 13:01	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261690	MET07	08/19/04 13:06	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261691	MET07	08/19/04 13:16	5.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261692	MET07	08/19/04 13:20	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC261887	MET04	08/20/04 13:14	1.0										+							
QC261888	MET04	08/20/04 13:16	1.0										+							
QC261889	MET04	08/20/04 13:18	1.0										+							
QC261890	MET04	08/20/04 14:31	25.0										+							
QC261891	MET04	08/20/04 14:33	5.0										+							
QC261892	MET04	08/20/04 14:35	5.0										+							
QC261893	MET04	08/20/04 14:37	5.0										+							

Curtis & Tompkins Laboratories Sample Preparation Summary 19-AUG-2004 01:13

Batch Number : 93868
Date Extracted: 19-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F	Clean D.F	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174056-020			Northgate Environmental Manage	Soil	.97	g	50	51.546392	1					T26/ICP		
174062-001			TRC Environmental Solutions, I	Soil	1.11	g	50	45.045045	1					T26/ICP		
174065-001			Tan Phung Associates	Soil	1.13	g	50	44.247788	1					PB		mss
174065-002			Tan Phung Associates	Soil	.92	g	50	54.347826	1					PB		
174068-001			Tan Phung Associates	Soil	1.36	g	50	36.764706	1					PB		
174068-002			Tan Phung Associates	Soil	1.51	g	50	33.112583	1					PB		
174074-001			Treadwell & Rollo	Soil	1.09	g	50	45.871560	1					T26/ICP		mss
174080-005			Brighton Environmental	Soil	1.05	g	50	47.619048	1					PB		
174087-005			Northgate Environmental Manage	Soil	.97	g	50	51.546392	1					AS, PB		
174087-014			Northgate Environmental Manage	Soil	1.39	g	50	35.971223	1					AS, PB		
174087-015			Northgate Environmental Manage	Soil	1.06	g	50	47.169811	1					AS, PB		
174087-016			Northgate Environmental Manage	Soil	1	g	50	50.000000	1					AS, PB		
174087-017			Northgate Environmental Manage	Soil	1.08	g	50	46.296296	1					AS, PB		
QC261684	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC261685	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC261686	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC261687	MS	of 174065-001		Soil	.95	g	50	52.631579	1		.5	.5		ICAP		
QC261688	MSD	of 174065-001		Soil	1.33	g	50	37.593985	1		.5	.5		ICAP		
QC261689	MS	of 174074-001		Soil	1.34	g	50	37.313433	1		.5	.5		ICAP		
QC261690	MSD	of 174074-001		Soil	.98	g	50	51.020408	1		.5	.5		ICAP		
QC261691	SER	of 174074-001		Soil	1.09	g	50	45.871560	1					ICAP		
QC261692	PDS	of 174074-001		Soil	1.09	g	50	45.871560	1					ICAP		

Prep Chemist: [signature] Reviewed By: [signature] Date: 8/15/04

Relinquished By: [signature] Received By: [signature] Date: 8/15/04

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 93868
Date Digested: 8/18/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 50

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BKQC 261684		Ø	500	N	
*	BS 261685					
*	BSD 261686					
*	174065-001MS	A	0.95			
*	-001MSD		1.33			
*	174074-001MS	A	1.34			
*	-001MSD		0.98			
	174050-020-		0.97			comp 017, 018, 019
	174062-001	A	1.11			
10	174065-001	A	1.13			MSS
	-002		0.92			
	174068-001	A	1.36			
	-002		1.51			
	174074-001	A	1.09			MSS
15	174080-005		1.05			comp 001-004
	174087-005	A	0.97			
	-014		1.39			comp 001, 002
	-015		1.06			003, 004
	-016		1.00			006, 007, 008,
20	-017		1.08			010, 011, 012

0.5 mL of spike solution was added to all spikes

digestion temperature (90 - 95 degrees C)

1:1 HNO3

concentrated HNO3

3mL 30% hydrogen peroxide

concentrated HCl

☒ filtered thru' Whatman # 541

	Reagent ID or LIMS #	Initials / Date
	0455171 *	VV 8/18/04
	0455172 *	
	95°C VV 8/18/04	
	A16051 - JT Baker 08/18/04	
	A16051 - JT Baker	
	43287349 V.W.R	
	A16039 - JT Baker	
	E566057	

8/18/04
Extraction Chemist / Date

Continued from page —
Continued on page —

MM 8/19/04
Reviewed by / Date

Folder: 082004
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  1        12:56:39 20 Aug 04   HG

Hg     .000    ppb      -2071

*** Standard: 2 Rep: 1                Seq:  2        12:58:29 20 Aug 04   HG

Hg     .200    ppb      13535

*** Standard: 3 Rep: 1                Seq:  3        13:00:16 20 Aug 04   HG

Hg     .500    ppb      33112

*** Standard: 4 Rep: 1                Seq:  4        13:02:17 20 Aug 04   HG

Hg     2.00    ppb      140401

*** Standard: 5 Rep: 1                Seq:  5        13:04:24 20 Aug 04   HG

Hg     5.00    ppb      346302

*** Standard: 6 Rep: 1                Seq:  6        13:06:46 20 Aug 04   HG

Hg     10.0    ppb      709752

*** Check Standard: 2  Ck2WS1547      Seq:  7        13:10:34 20 Aug 04   HG
Line   Flag  %Rcv.   Found    True  Units      SD/RSD
Hg           104.    5.22    5.00  ppb         .000  %

*** Check Standard: 1  Ck1ICB         Seq:  8        13:12:23 20 Aug 04   HG
Line   Flag  Found Range(+/-) Units      SD/RSD
Hg           .007     .000    ppb        .000  %

*** Sample ID: QC261887               Seq:  9        13:14:12 20 Aug 04   HG
                         93916,1
Hg     .067    ppb      .000  %   .067
=============================================================================
*** Sample ID: QC261888               Seq:  10       13:16:41 20 Aug 04   HG
                         93916,1
Hg     5.27    ppb      .000  %   5.27                                    =
=============================================================================
*** Sample ID: QC261889               Seq:  11       13:18:39 20 Aug 04   HG
                         93916,1
Hg     5.24    ppb      .000  %   5.24                                    =
=============================================================================
```

WinHg Database 1.3

File Utility Help

Protocol hgppb

Dataset/Proto 082004 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.40938e-5

C 3.48633e-2

Rho .999939

Type Linear

☑ Calibrated

☑ Accepted

Accept

Rel. Abs.
709752

Accepted

New

Include S1 Rep 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Conc. 20.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.006	.006	-2071	0	-2071		
02	.20000	.226	.026	13535	0%	13535		
03	.50000	.502	.002	33113	0%	33112		
04	2.0000	2.01	.014	140402	0%	140401		
05	5.0000	4.92	-.084	346302	0%	346302		
06	10.000	10.0	.038	709753	0%	709752		

Ready NUM

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44336296 Instrument: MET04 HydraAA HG Analyzer Begun: 20-AUG-2004
Analytical Method: EPA 7470 SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	93916	ICALBLK	Std01Rep1				20-AUG-2004 12:56	1.0	1.0									
002	93916	ICAL	Std02Rep1				20-AUG-2004 12:58	1.0	1.0									
003	93916	ICAL	Std03Rep1				20-AUG-2004 13:00	1.0	1.0									
004	93916	ICAL	Std04Rep1				20-AUG-2004 13:02	1.0	1.0									
005	93916	ICAL	Std05Rep1				20-AUG-2004 13:04	1.0	1.0									
006	93916	ICAL	Std06Rep1				20-AUG-2004 13:06	1.0	1.0									
007	93916	ICV					20-AUG-2004 13:10	1.0	1.0	2	5.000	44336296001	5.220		ug/L	104		
008	93916	ICB					20-AUG-2004 13:12	1.0	1.0			44336296001	[0.007000]	0.20	ug/L			
009	93916	BLANK	QC261887		93916	Soil	20-AUG-2004 13:14	1.0	100.0			44336296001	0.0067 J	0.020	mg/Kg			u
010	93916	BS	QC261888		93916	Soil	20-AUG-2004 13:16	1.0	100.0		0.5000	44336296001	0.5270	0.020	mg/Kg	105		u
011	93916	BSD	QC261889		93916	Soil	20-AUG-2004 13:18	1.0	100.0		0.5000	44336296001	0.5240	0.020	mg/Kg	105	1	u
012	93916	X	173977-001		93916	Soil	20-AUG-2004 13:21	1.0	94.34									
013	93916	X	QC261890		93916	Soil	20-AUG-2004 13:23	5.0	94.34									
014	93916	X	QC261891		93916	Soil	20-AUG-2004 13:26	1.0	100.0									
015	93916	X	QC261892		93916	Soil	20-AUG-2004 13:27	1.0	96.15									
016	93916	X	QC261893		93916	Soil	20-AUG-2004 13:29	1.0	94.34									
017	93916	SAMPLE	174056-020		93916	Soil	20-AUG-2004 13:31	1.0	90.91			44336296001	0.24	0.018	mg/Kg			u
018	93916	SAMPLE	174062-001		93916	Soil	20-AUG-2004 13:34	1.0	104.2			44336296001	0.025	0.021	mg/Kg			u
019	93916	CCV					20-AUG-2004 13:36	1.0	1.0	3	2.500	44336296001	2.690		ug/L	108		
020	93916	CCB					20-AUG-2004 13:38	1.0	1.0			44336296001	[0.03900]	0.20	ug/L			
021	93916	SAMPLE	174074-001		93916	Soil	20-AUG-2004 13:41	1.0	94.34			44336296001	0.16	0.019	mg/Kg			u
022	93916	SAMPLE	174092-001		93916	Soil	20-AUG-2004 13:43	1.0	100.0			44336296001	0.24	0.020	mg/Kg			u
023	93916	SAMPLE	174092-002		93916	Soil	20-AUG-2004 13:45	1.0	84.75			44336296001	0.24	0.017	mg/Kg			u
024	93916	SAMPLE	174092-003		93916	Soil	20-AUG-2004 13:47	1.0	86.21			44336296001	0.15	0.017	mg/Kg			u
025	93916	SAMPLE	174107-001		93916	Soil	20-AUG-2004 13:49	1.0	96.15			44336296001	0.024	0.019	mg/Kg			u
026	93916	SAMPLE	174107-002		93916	Soil	20-AUG-2004 13:51	1.0	86.21			44336296001	0.11	0.017	mg/Kg			u
027	93916	SAMPLE	174107-003		93916	Soil	20-AUG-2004 13:53	1.0	90.91			44336296001	0.13	0.018	mg/Kg			u
028	93916	SAMPLE	174108-004		93916	Soil	20-AUG-2004 13:55	1.0	92.59			44336296001	0.17	0.019	mg/Kg			u
029	93916	SAMPLE	174109-001		93916	Soil	20-AUG-2004 13:57	1.0	94.34			44336296001	0.036	0.019	mg/Kg			u
030	93916	SAMPLE	174109-002		93916	Soil	20-AUG-2004 13:59	1.0	87.72			44336296001	0.047	0.018	mg/Kg			u
031	93916	CCV					20-AUG-2004 14:01	1.0	1.0	4	5.000	44336296001	5.190		ug/L	104		
032	93916	CCB					20-AUG-2004 14:03	1.0	1.0			44336296001	[0.02500]	0.20	ug/L			
033	93916	SAMPLE	174109-003		93916	Soil	20-AUG-2004 14:06	1.0	100.0			44336296001	0.041	0.020	mg/Kg			u
034	93916	SAMPLE	174110-001		93916	Soil	20-AUG-2004 14:08	1.0	87.72			44336296001	0.052	0.018	mg/Kg			u
035	93916	SAMPLE	174110-002		93916	Soil	20-AUG-2004 14:10	1.0	92.59			44336296001	0.058	0.019	mg/Kg			u
036	93916	CCV					20-AUG-2004 14:12	1.0	1.0	5	7.500	44336296001	7.570		ug/L	101		
037	93916	CCB					20-AUG-2004 14:14	1.0	1.0			44336296001	[0.01700]	0.20	ug/L			
038	93916	MSS	173977-001		93916	Soil	20-AUG-2004 14:29	5.0	94.34			44336296001	0.65	0.094	mg/Kg			u
039	93916	SER	QC261890	173977-001	93916	Soil	20-AUG-2004 14:31	25.0	94.34			44336296001	0.71	0.47	mg/Kg			u
040	93916	MS	QC261891	173977-001	93916	Soil	20-AUG-2004 14:33	5.0	100.0		0.5000	44336296001	1.165	0.10	mg/Kg	103		u
041	93916	MSD	QC261892	173977-001	93916	Soil	20-AUG-2004 14:35	5.0	96.15		0.4808	44336296001	1.207	0.096	mg/Kg	116	5	u
042	93916	PDS	QC261893	173977-001	93916	Soil	20-AUG-2004 14:37	5.0	94.34		0.4717	44336296001	1.179	0.094	mg/Kg	112		u

Stds used: 1=04WS1545 2=04WS1547 3=04WS1548 4=04WS1549 5=04WS1550
Flags used: u=use

Analyst: _____ Date: 08/20/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44336296 Instrument: MET04 HydraAA HG Analyzer Begun: 20-AUG-2004
Analytical Method: EPA 7470 SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
043	93916	CCV					20-AUG-2004 14:39	1.0	1.0	5	7.500	44336296001	7.510		ug/L	100		
044	93916	CCB					20-AUG-2004 14:41	1.0	1.0			44336296001	[0.02500]	0.20	ug/L			

302

Stds used: 1=04WS1545 2=04WS1547 3=04WS1548 4=04WS1549 5=04WS1550
Flags used: u=use

Analyst: _____ Date: 08/20/04

Curtis & Tompkins Laboratories Sample Preparation Summary 20-AUG-2004 09:49

Batch Number : 93916
Date Extracted: 20-AUG-2004
Extracted by : Morris Luong Tran
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : 04WS1545
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173977-001			Tan Phung Associates	Soil	.53	g	50	94.339623	1					T26/HG		
174056-020			Northgate Environmental Manage	Soil	.55	g	50	90.909091	1					T26/HG		
174062-001			TRC Environmental Solutions, I	Soil	.48	g	50	104.166667	1					T26/HG		
174074-001			Treadwell & Rollo	Soil	.53	g	50	94.339623	1					HG		
174092-001			URS Corporation	Soil	.5	g	50	100.000000	1					T26/HG		
174092-002			URS Corporation	Soil	.59	g	50	84.745763	1					T26/HG		
174092-003			URS Corporation	Soil	.58	g	50	86.206897	1					T26/HG		
174107-001			URS Corporation	Soil	.52	g	50	96.153846	1					T26/HG		
174107-002			URS Corporation	Soil	.58	g	50	86.206897	1					T26/HG		
174107-003			URS Corporation	Soil	.55	g	50	90.909091	1					T26/HG		
174108-004			Geomatrix Consultants	Soil	.54	g	50	92.592593	1					T26/HG		
174109-001			URS Corporation	Soil	.53	g	50	94.339623	1					T26/HG		
174109-002			URS Corporation	Soil	.57	g	50	87.719298	1					T26/HG		
174109-003			URS Corporation	Soil	.5	g	50	100.000000	1					T26/HG		
174110-001			TRC Environmental Solutions, I	Soil	.57	g	50	87.719298	1					T26/HG		
174110-002			TRC Environmental Solutions, I	Soil	.54	g	50	92.592593	1					T26/HG		
QC261887	MB			Soil	.5	g	50	100.000000	1					HG		
QC261888	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC261889	BSD	of QC261888		Soil	.5	g	50	100.000000	1		2.5			HG		
QC261890	SER	of 173977-001		Soil	.53	g	50	94.339623	1					HG		
QC261891	MS	of 173977-001		Soil	.5	g	50	100.000000	1		2.5			HG		
QC261892	MSD	of 173977-001		Soil	.52	g	50	96.153846	1		2.5			HG		
QC261893	PDS	of 173977-001		Soil	.53	g	50	94.339623	1		2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 93916

Date Digested: 08/20/04

Digested by: MT

Digestion Method

☒ EPA 7471A

☐ _____

BK 1930

Page 59

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
173977-1 18	0.53	50.0	y	
174056-20	0.55			Comp 17, 18, 19
174062-1	0.48			
174074-1	0.53			
174092-1 18	0.50			
2 18	0.59			
3 C	0.58			
174107-1	0.52			Comp 4 containers
2	0.58			
3	0.57			
174108-4	0.54			
174109-1	0.53			Comp 4 containers
2	0.57			
3	0.50			
174110-1	0.57			
2	0.54			
MB	0.50			
BT				
BSD				
173977-1 MS	0.50			
2 MSD	0.52			

	Reagent ID/ LIMS# / Time	Initials / Date
$ = 2.5 mL of spike solution was added to all spikes	04WS1545	MT 8/20/04
ICAL Source WS#	04WS1545	
ICV / CCV WS#	04WS1547 / 4:45/15	
Digestion of Samples & Standards: Time ON / Temperature ON	9:45 Am / 95C	
Time OFF/ Temperature OFF	10:15 Am / 95C	
Aqua Regia	AR082004	
5% $KMnO_4$	K 081604	
NaCl.hydroxylamine hydrochloride	HY 081604	
Stannous Chloride	SnCl2 081604	
☒ filtered thru' 0.45 um syringe filter	RZMN C2036 millipore	

08/20/04

Prep Chemist / Date

304

Continued from page _____

Continued on page _____

Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050

Analyte	Units	MET01		MET07	
Aluminum	mg/Kg	07/26/04	1.5	07/21/04	0.52
Antimony	mg/Kg	07/20/04	1.3	07/21/04	0.20
Arsenic	mg/Kg	07/26/04	2.8	07/20/04	0.10
Barium	mg/Kg	07/27/04	0.098	07/21/04	0.013
Beryllium	mg/Kg	07/20/04	0.029	07/21/04	0.0063
Cadmium	mg/Kg	07/20/04	0.14	07/21/04	0.028
Calcium	mg/Kg	07/26/04	2.8	07/21/04	0.58
Chromium	mg/Kg	07/20/04	0.29	07/21/04	0.033
Cobalt	mg/Kg	07/20/04	0.39	07/21/04	0.076
Copper	mg/Kg	07/20/04	0.11	07/21/04	0.057
Iron	mg/Kg	07/20/04	1.5	07/21/04	0.80
Lead	mg/Kg	07/26/04	7.9	07/20/04	0.065
Magnesium	mg/Kg	07/20/04	1.5	07/21/04	0.52
Manganese	mg/Kg	07/20/04	0.11	07/20/04	0.11
Molybdenum	mg/Kg	07/20/04	0.43	07/21/04	0.062
Nickel	mg/Kg	07/20/04	0.64	07/21/04	0.067
Potassium	mg/Kg	07/27/04	18		
Selenium	mg/Kg	07/27/04	8.1	07/21/04	0.17
Silver	mg/Kg	07/26/04	0.18	07/21/04	0.098
Sodium	mg/Kg	07/26/04	2.8		
Thallium	mg/Kg	07/26/04	9.5	07/21/04	0.21
Vanadium	mg/Kg	07/20/04	0.14	07/21/04	0.045
Zinc	mg/Kg	07/20/04	0.17	07/21/04	0.17
Boron	mg/Kg	07/27/04	3.1		
Tin	mg/Kg	07/26/04	1.0		
Titanium	mg/Kg	07/26/04	0.099		

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Soil

Analyte	Units	MET03		MET04	
Mercury	mg/Kg	05/15/03	0.0050	03/30/04	0.0039

CHLORINATED HERBICIDES

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Curtis & Tompkins
Attention: Steve Stanley
2323 Fifth Street
Berkeley CA 94710
Tel: (510)486-0900 Fax: (510)486-0532

Service ID #: 801-044118
Collected by:
Collected on: 08/18/04

Received: 08/19/04
Extracted: 08/20/04
Tested: 08/19-20/04
Reported: 08/25/04

Sample Description: Soil from Presidio-Baker Beach 3.
Project Description: 174074

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	MDL	Analysis Result BB3EX116[0.5] 04-04118-1
MOISTURE	ASTM-D2216	%Moisture	0.5	0.042	14.7
CHLORINATED HERBICIDES					
Dilution Factor					1
2,4-D	8151A	mg/kg	0.025	9.E-4	<0.029
2,4 DB	8151A	mg/kg	0.1	0.0029	<0.12
DALAPON	8151A	mg/kg	0.1	0.0018	<0.12
DICAMBA	8151A	mg/kg	0.01	3.E-4	<0.012
DICHLOROPROP	8151A	mg/kg	0.025	4.E-4	<0.029
DINOSEB (DNBP)	8151A	mg/kg	0.025	2.E-4	<0.029
MCPA	8151A	mg/kg	5	4.E-5	<5.9
MCPP	8151A	mg/kg	5	5.E-5	<5.9
2,4,5-T	8151A	mg/kg	0.01	4.E-4	<0.012
2,4,5-TP (SILVEX)	8151A	mg/kg	0.01	9.E-5	<0.012

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Level C Data Package Deliverables

General Information

Project: 174074

APCL Service ID: 04-4118

Applied P & CH Laboratories
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: Presidio-Baker Beach 3/174074

For Curtis & Tompkins

APCL Service No: 04-4118

1. Sample Identification

The sample identifications are listed in the following table:

Curtis & Tompkins Sample ID	APCL Sample ID
BB3EX116[0.5]	04-04118-1

2. Analytical Methodology

Samples are analyzed by EPA methods

8151A (Chlorinated herbicides),

ASTM-D2216 (Moisture, percent in soil),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL III

RUSH

Project Number: 174074
Site: Presidio-Baker Beach 3

4118

Subcontract Laboratory:
APCL
13760 Magnolia Ave.
Chino, CA 91710
(909) 590-1828
ATTN: Kenny Chan x163

Results due: 08/25/04 Report Level: III

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
BB3EX116[0.5]	08/18	Soil	8150	174074-001	

Notes:	Relinquished By:	Received By:
	[signature]	[signature]
	Date/Time: 8/18/04 1531	Date/Time: 8/19/04 1010

Signature on this form constitutes a firm Purchase Order for the services requested above.
Page 1 of 1

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 4118 **Client Name/Project:** Curtis & Tompkins

1. Sample Arrival

Date/Time Received 8/19/04 1010 Date/Time Opened 8/19/04 1010 By (name): Kenny Chan

Custody Transfer: ☐ Client ☑ ~~Golden State~~ Cal Overnite ☐ UPS ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 1
☑ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☑ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None
Temp °C 3.8 _____ _____ _____ _____ _____
(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).
Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12
If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: _____
Type: ☐ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☑ Unique ID? ☐ Date/Time ☐ Preserved?

7. Turn Around Time

☑ RUSH TAT: 4 days ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq. ☑ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: Kenny Chan Printed: 19 Aug 2004 7:15 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: {neal.texfiles}smprcl.tex.

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

04-04118 (0900_ 118) (4860900_ 118)

08/19/04

Part 1: General Information

☐	Company Information	Name:	*Curtis & Tompkins*
		Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
☐	Project Information	Project Description:	*Presidio-Baker Beach 3*
		Project #:	*174074*
☐	Billing Information	P.O. #:	
		Bill Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
		Lab Project ID:	
		Client Database #:	*1*
☐	Receiving Information	Who Received Sample?	*Kenny Chan*
		Receiving Date/Time:	*08/19/04 1010*
		COC No.	
☐	Shipping Information	Shipping Company	*Express*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*3.8 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 4 working day(s)*
☐	QC Option:		*NEESA C*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	BB3EX116[0.5]		04-04118-1	S	J		100	1	G	081804	N	0	6	☐

Part 3: Analysis Information

Test Items:

- ☐ *8151A* Chlorinated herbicides
- ☐ *8141A* Organo-phosphorus
- ☐ *ASTM-D2216* Moisture, percent in soil
- ☐ *9040B/150.1* pH

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	HERBICIDE	ORGANO	moist	pH	
1	BB3EX116[0.5]		04-04118-1	S	X		X	X	☐

☐ Client"s Requirement: **PLEASE USE CLIENTS CONTROL LIMITS**

Login By JASON M. NARIO

Check By JX

Level C Data Package Deliverables

Chlorinated Herbicides

Applied P & Ch Laboratory

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	174074	Collection Date:	08/20/2004
Project ID:	Presidio-Baker Beach 3	Service ID:	44118	Collected by:	
		Lab Sample ID:	04G3252-MB-01	Received Date:	08/20/2004
Sample ID:	**04G3252-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	08/20/04	Anal. Date:	08/20/04
Batch No:	04G3252	Prep. No:	1 of 1	Anal. Time:	18:54
Data File Name:	3252G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	66
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	68
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	174074	Collection Date:	08/18/2004
Project ID:	Presidio-Baker Beach 3	Service ID:	44118	Collected by:	
		Lab Sample ID:	04-4118-1	Received Date:	08/19/2004
Sample ID:	**BB3EX116[0.5]**	Sample Matrix	Soil	Moisture %:	14.7
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	08/20/04	Anal. Date:	08/20/04
Batch No:	04G3252	Prep. No:	1 of 1	Anal. Time:	20:57
Data File Name:	4118.001	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.029	<0.029	U
2	2,4 DB	94-82-6	mg/kg	0.12	<0.12	U
3	DALAPON	75-99-0	mg/kg	0.12	<0.12	U
4	DICAMBA	1918-00-9	mg/kg	0.012	<0.012	U
5	DICHLOROPROP	120-36-5	mg/kg	0.029	<0.029	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.029	<0.029	U
7	MCPA	94-74-6	mg/kg	5.9	<5.9	U
8	MCPP	93-65-2	mg/kg	5.9	<5.9	U
9	2,4,5-T	93-76-5	mg/kg	0.012	<0.012	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.012	<0.012	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	124
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	69
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	044118
Project ID:	Presidio-Baker Beach 3	Project No:	174074	Sample Matrix:	Soil
		Batch No:	04G3252		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G3252-MB-01	04G3252-MB-01	66	0
2	04G3252-LCS-01	04G3252-LCS-01	77	0
3	04G3252-LSD-01	04G3252-LSD-01	77	0
4	BB3EX116[0.5]	04-4118-1	124	0
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	44118
Project ID:	Presidio-Baker Beach 3	Project No:	174074	Sample Matrix:	Soil
		Batch No:	04G3252		
LCS Filename:	3252G.L01	Date Analyzed:	082004	Time Analyzed:	19:35
LCSD Filename:	3252G.J01	Date Analyzed:	082004	Time Analyzed:	20:16

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0449	90	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0434	87	65-135
2,4,5-T	mg/kg	0.050	0	0.0423	85	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0466	93	3	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0438	88	1	35	65-135
2,4,5-T	mg/kg	0.050	0.0429	86	1	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-4B

Applied P & CH Laboratories

Method Blank Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	44118
Project ID:	Presidio-Baker Beach 3	Project No:	174074	Analysis Date:	08/20/04
		Sample Matrix:	Soil	Analysis Time:	18:54
Sample ID:	**04G3252-MB-01**	Batch No:	04G3252	Instrument ID:	GC: T
Lab Sample ID:	04G3252-MB-01	Data File Name:	3252G.K01	GC Column:	DB-608
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	04G3252-LCS-01	04G3252-LCS-01	Lab Control Spike	3252G.L01	08/20/04	19:35
2	04G3252-LSD-01	04G3252-LSD-01	Lab Control Spike Duplicate	3252G.J01	08/20/04	20:16
3	BB3EX116[0.5]	04-4118-1	Field Sample	4118.001	08/20/04	20:57
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

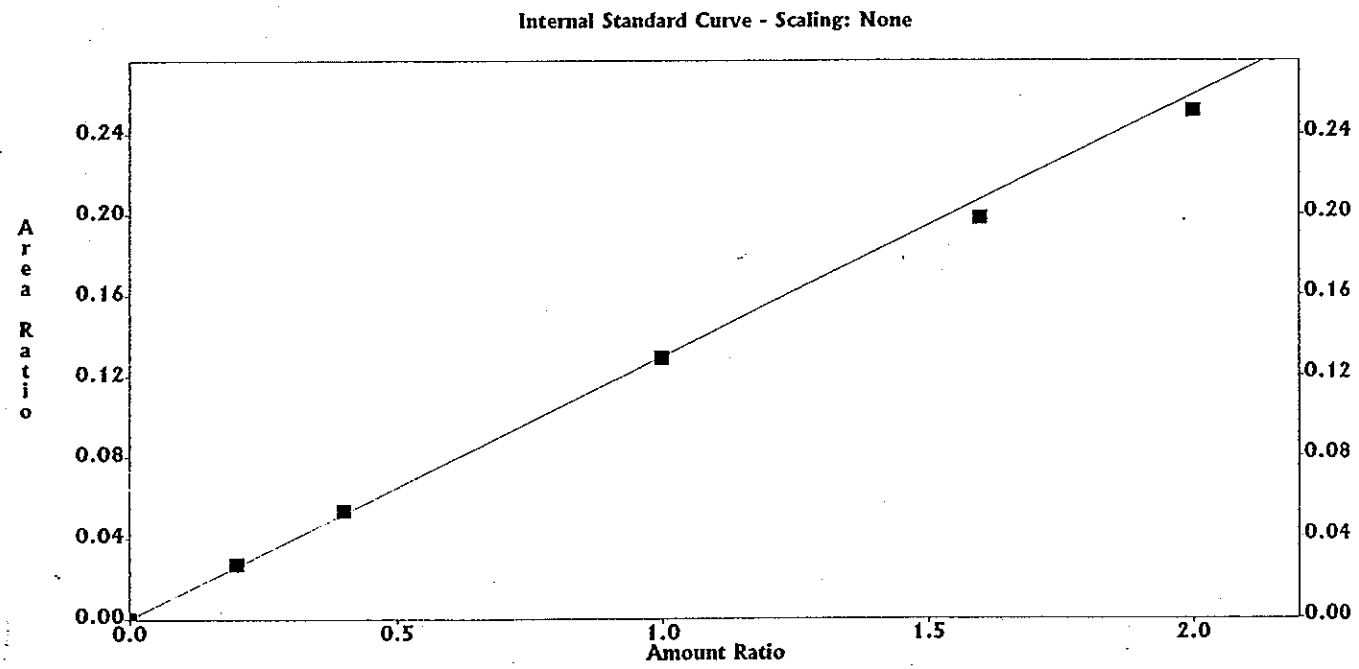
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 1 Dalapon

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0271	0.2	0.1355	0.0271							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1294	1	0.1294	0.1294							0
4	0.1985	1.6	0.124	0.1985							0
5	0.2517	2	0.1259	0.2517							0

Calib Flag: Replace

Average RF: 0.129749
RF StdDev: 0.00496077
RF %RSD: 3.823

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.129749



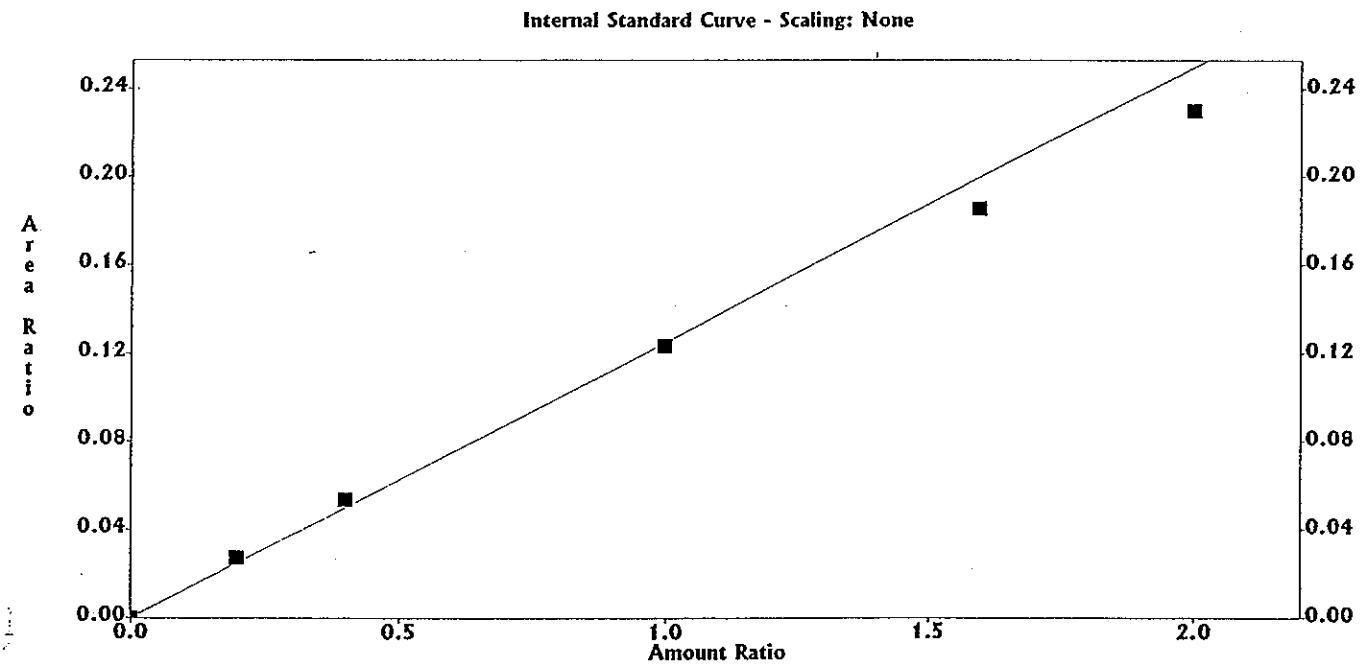
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0273	0.2	0.1364	0.0273							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1236	1	0.1236	0.1236							0
4	0.1858	1.6	0.1161	0.1858							0
5	0.2304	2	0.1152	0.2304							0

Calib Flag: Replace

Average RF: 0.125046
RF StdDev: 0.0098334
RF %RSD: 7.864

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.125046



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 3 4-Nitrophenol

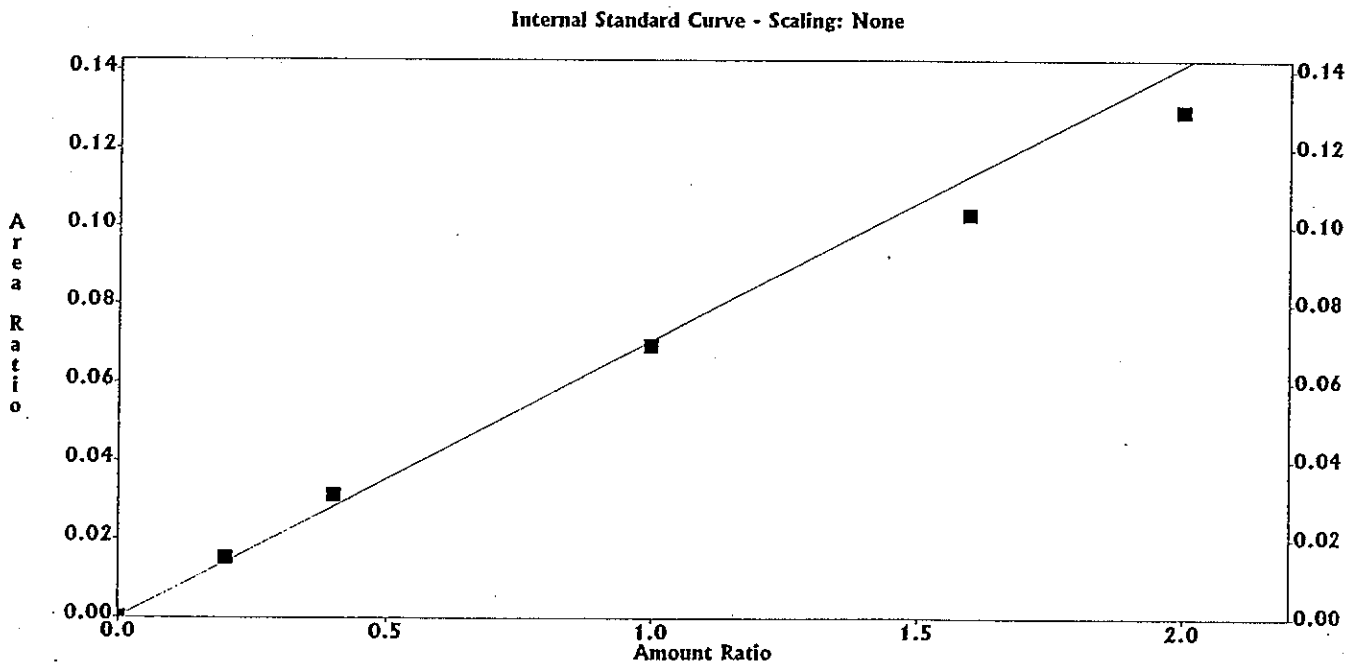
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0153	0.2	0.07642	0.0153							0
2	0.0314	0.4	0.07839	0.0314							0
3	0.0695	1	0.06947	0.0695							0
4	0.1032	1.6	0.06452	0.1032							0
5	0.1297	2	0.06487	0.1297							0

Calib Flag: Replace

Average RF: 0.0707316
RF StdDev: 0.00643509
RF %RSD: 9.098

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0707316



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 4 DCAA(Surr)

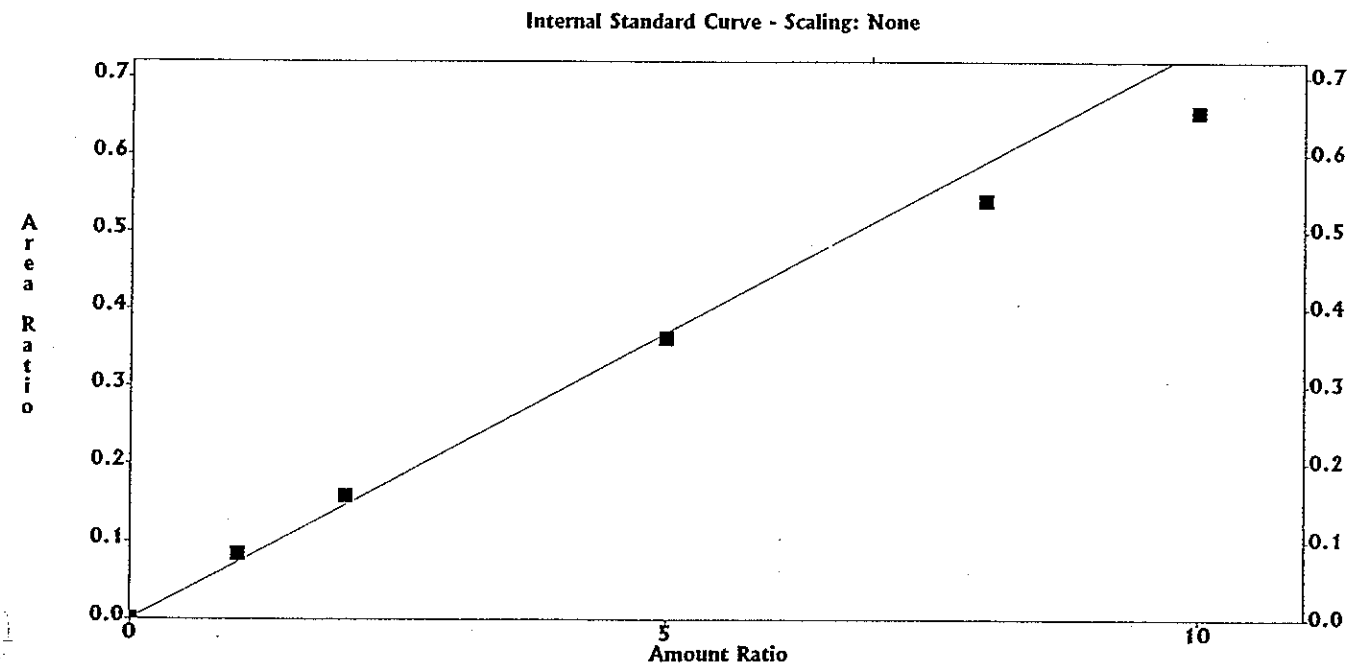
* - Replicate Not Used

al	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0843	1	0.08426	0.0843							0
2	0.1594	2	0.07968	0.1594							0
3	0.3617	5	0.07235	0.3617							0
4	0.5408	8	0.06759	0.5408							0
5	0.6554	10	0.06554	0.6554							0

Calib Flag: Replace

Average RF: 0.0738852
RF StdDev: 0.0079487
RF %RSD: 10.758

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0738852



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 5 Dicamba

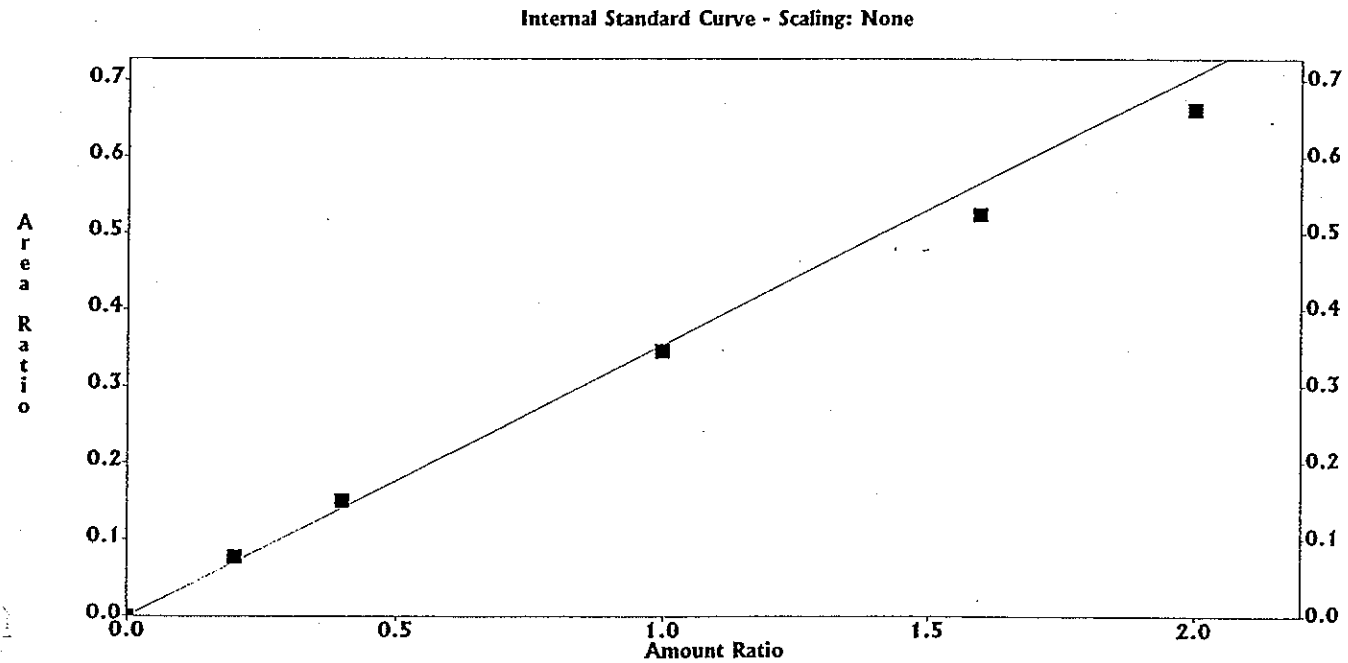
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0773	0.2	0.3866	0.0773							0
2	0.1507	0.4	0.3767	0.1507							0
3	0.3455	1	0.3455	0.3455							0
4	0.5239	1.6	0.3275	0.5239							0
5	0.6620	2	0.331	0.6620							0

Calib Flag: Replace

Average RF: 0.353447
RF StdDev: 0.0268465
RF %RSD: 7.596

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.353447



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 6 MCPP(ppm)

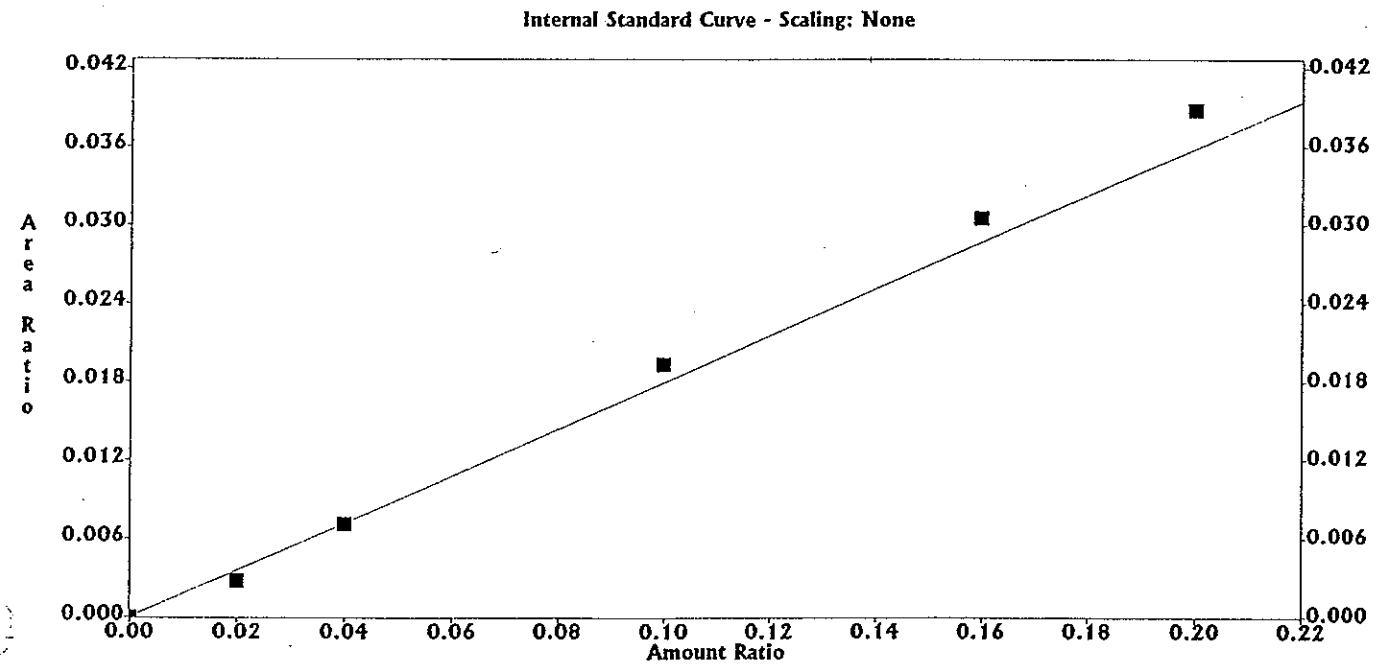
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0028	0.02	0.14	0.0028							0
2	0.0071	0.04	0.1782	0.0071							0
3	0.0193	0.1	0.1933	0.0193							0
4	0.0305	0.16	0.1908	0.0305							0
5	0.0388	0.2	0.194	0.0388							0

Calib Flag: Replace

Average RF: 0.179235
RF StdDev: 0.0228742
RF %RSD: 12.762

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.179235



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 7 MCPA(PPm)

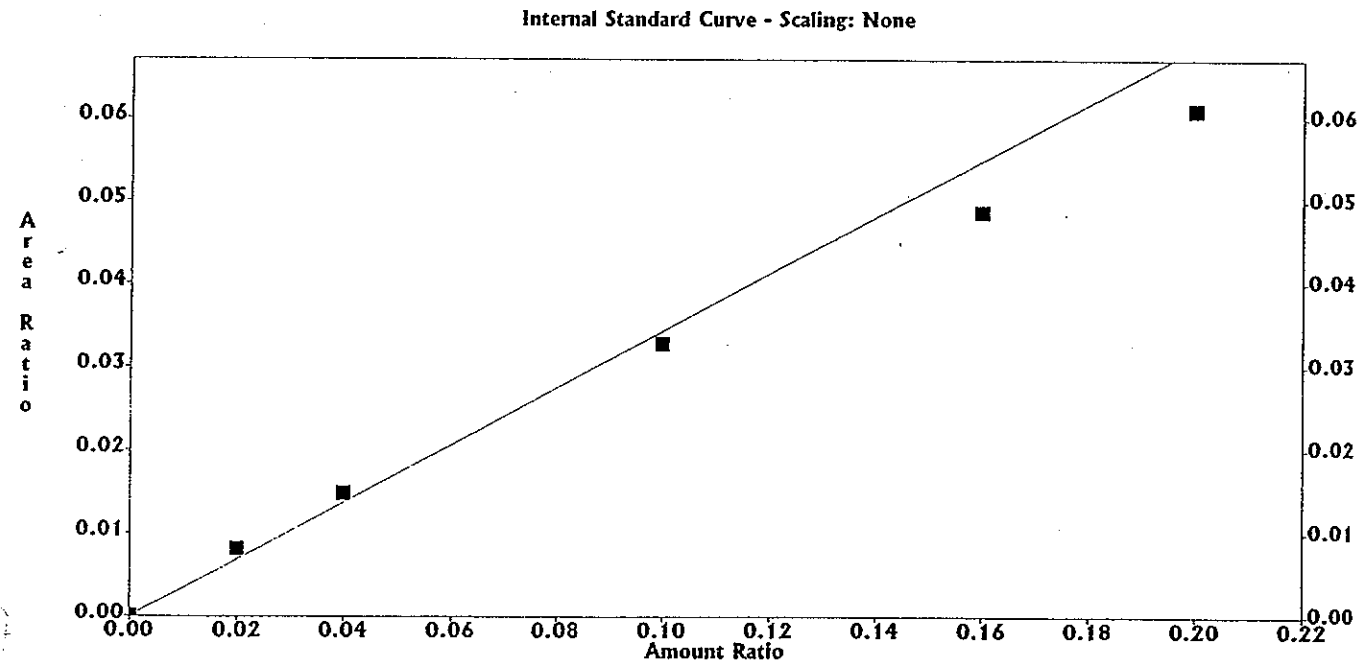
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0082	0.02	0.4079	0.0082							0
2	0.0149	0.04	0.3713	0.0149							0
3	0.0329	0.1	0.3285	0.0329							0
4	0.0487	0.16	0.3047	0.0487							0
5	0.0611	0.2	0.3054	0.0611							0

Calib Flag: Replace

Average RF: 0.343572
RF StdDev: 0.0450119
RF %RSD: 13.101

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.343572



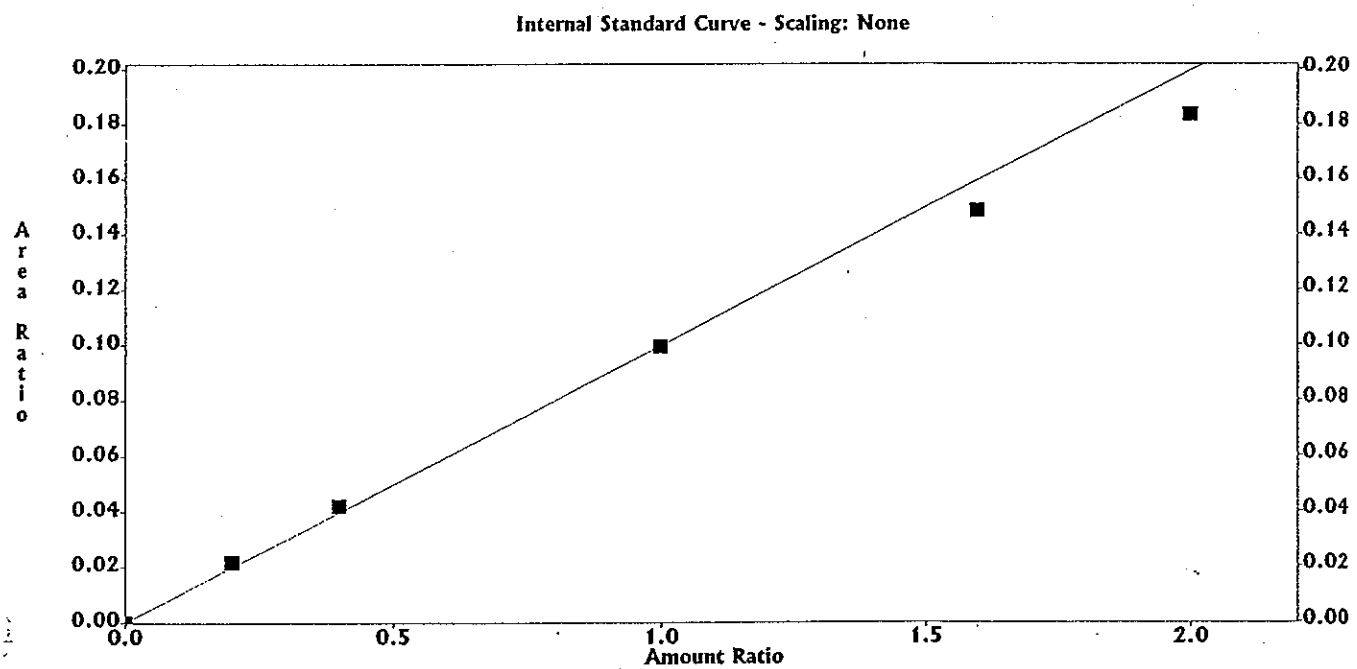
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 8 Dichloroprop

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0218	0.2	0.109	0.0218							0
2	0.0422	0.4	0.1054	0.0422							0
3	0.0996	1	0.09957	0.0996							0
4	0.1485	1.6	0.09284	0.1485							0
5	0.1836	2	0.0918	0.1836							0

Calib Flag: Replace

Average RF: 0.0997123
RF StdDev: 0.00754369
RF %RSD: 7.565

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0997123



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 9 2,4-D (m)

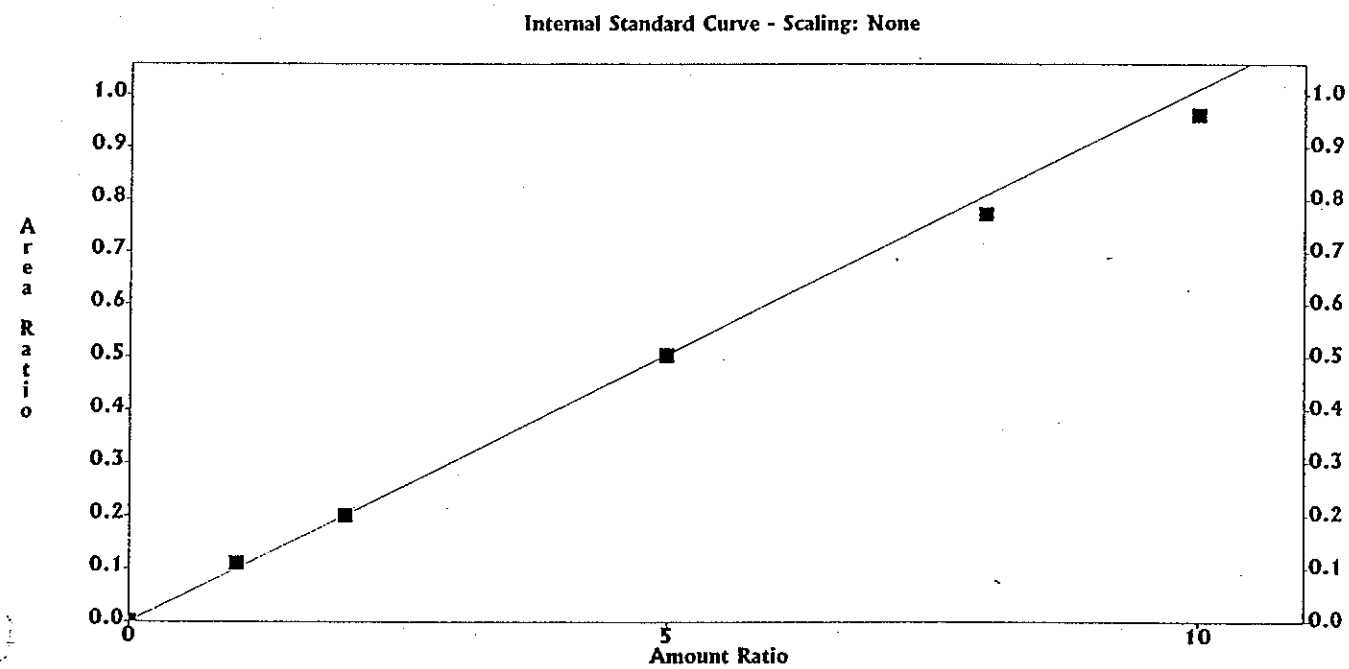
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1108	1	0.1108	0.1108							0
2	0.2020	2	0.101	0.2020							0
3	0.5042	5	0.1008	0.5042							0
4	0.7725	8	0.09656	0.7725							0
5	0.9628	10	0.09628	0.9628							0

Calib Flag: Replace

Average RF: 0.101099
RF StdDev: 0.00587927
RF %RSD: 5.815

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.101099



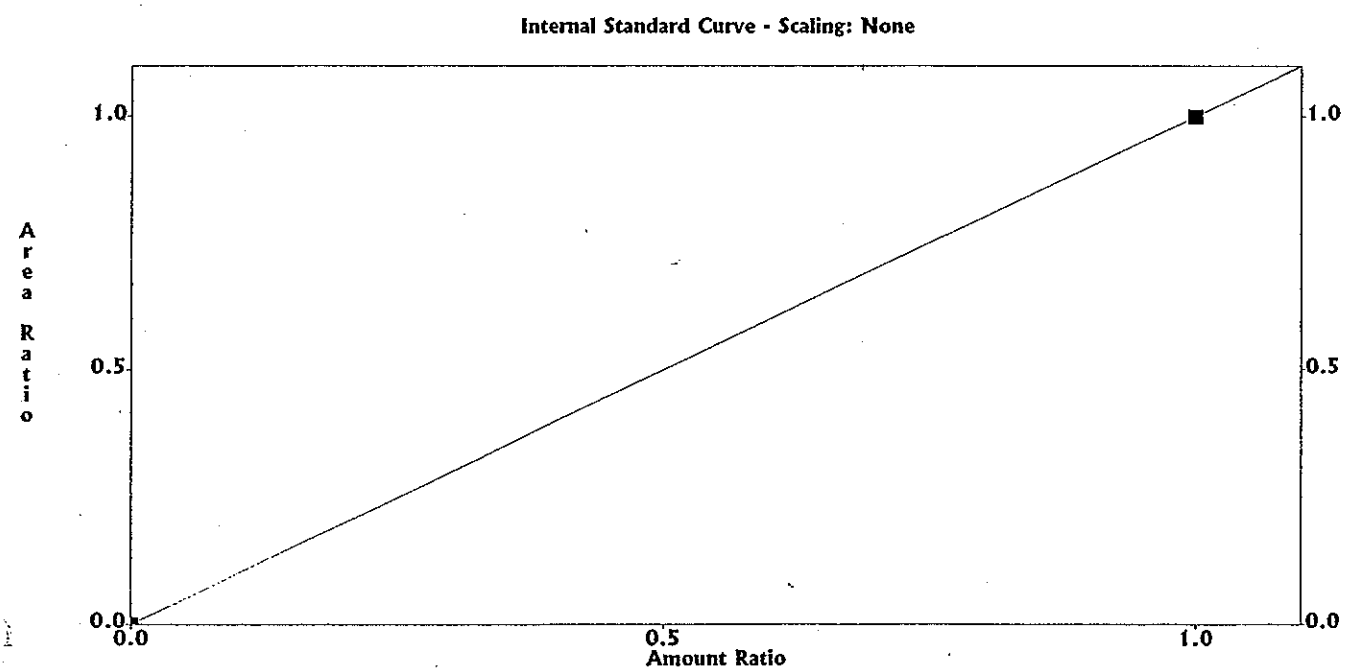
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 10 DBOB (IS)

al	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 11 Pentachlorphenol

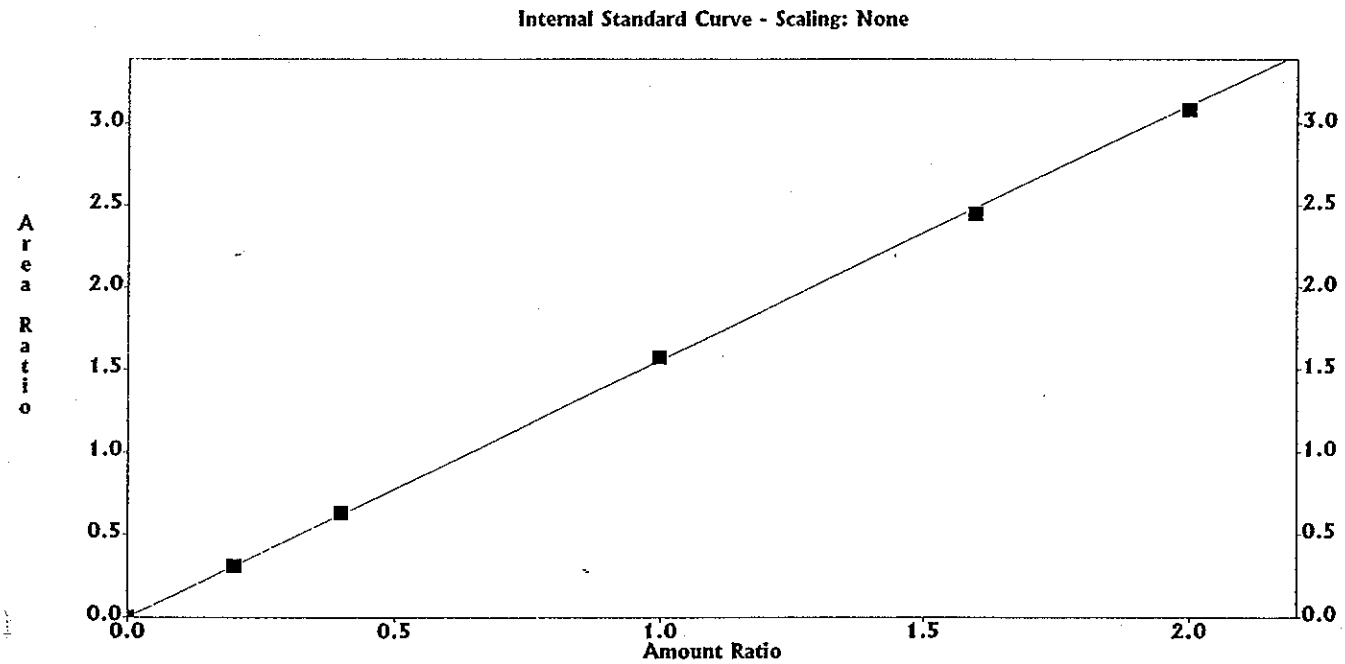
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3088	0.2	1.54	0.3088							0
2	0.6332	0.4	1.58	0.6332							0
3	1.5752	1	1.58	1.5752							0
4	2.4502	1.6	1.53	2.4502							0
5	3.0858	2	1.54	3.0858							0

Calib Flag: Replace

Average RF: 1.55531
RF StdDev: 0.0224793
RF %RSD: 1.445

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.55531



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 12 Silvex (m)

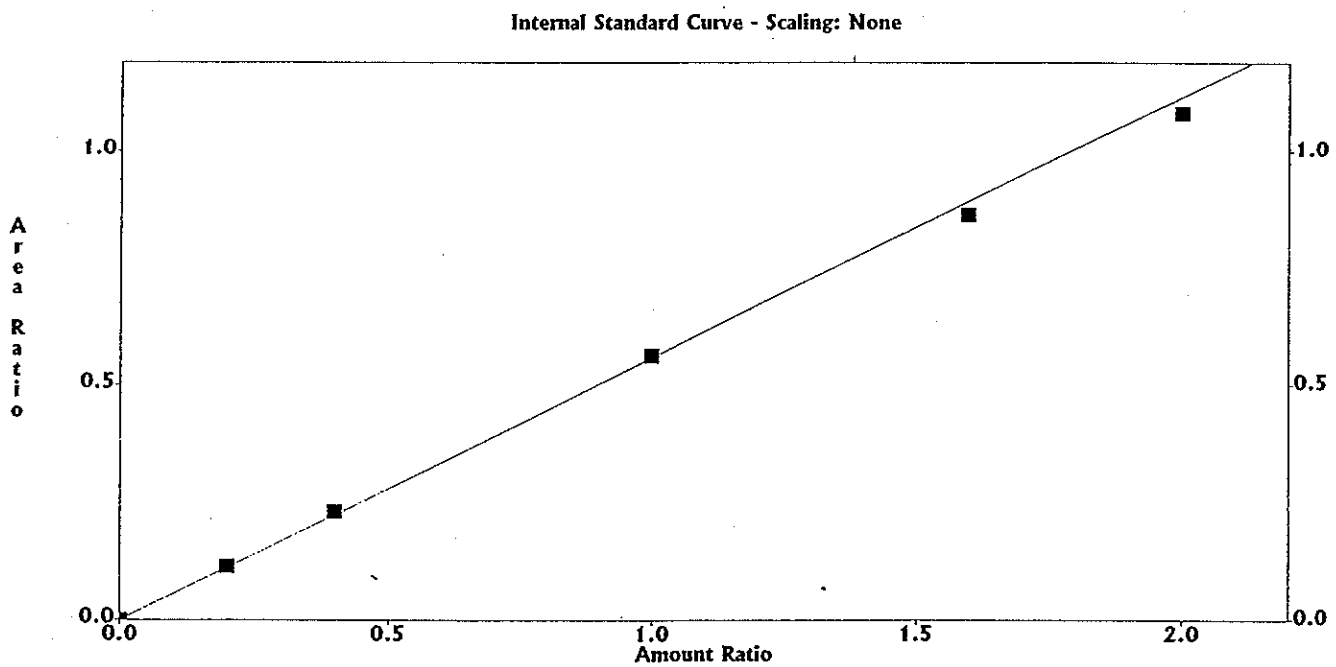
* - Replicate Not Used

Lvl	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1141	0.2	0.5705	0.1141							0
2	0.2311	0.4	0.5777	0.2311							0
3	0.5630	1	0.563	0.5630							0
4	0.8651	1.6	0.5407	0.8651							0
5	1.0833	2	0.5416	1.0833							0

Calib Flag: Replace

Average RF: 0.55871
RF StdDev: 0.016838
RF %RSD: 3.014

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.55871



Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 13 Chloramben

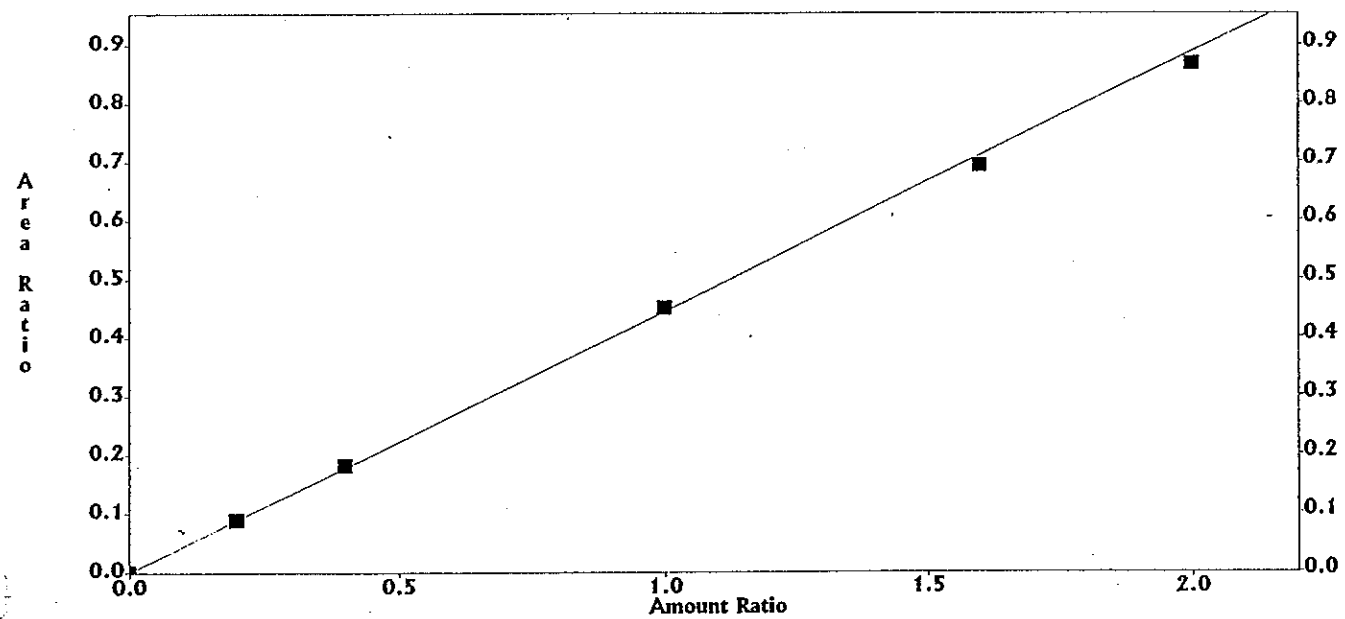
#	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0891	0.2	0.4455	0.0891							0
2	0.1827	0.4	0.4568	0.1827							0
3	0.4514	1	0.4514	0.4514							0
4	0.6939	1.6	0.4337	0.6939							0
5	0.8681	2	0.434	0.8681							0

Calib Flag: Replace

Average RF: 0.444269
RF StdDev: 0.0103107
RF %RSD: 2.321

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.444269

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 14 2,4,5-T (m)

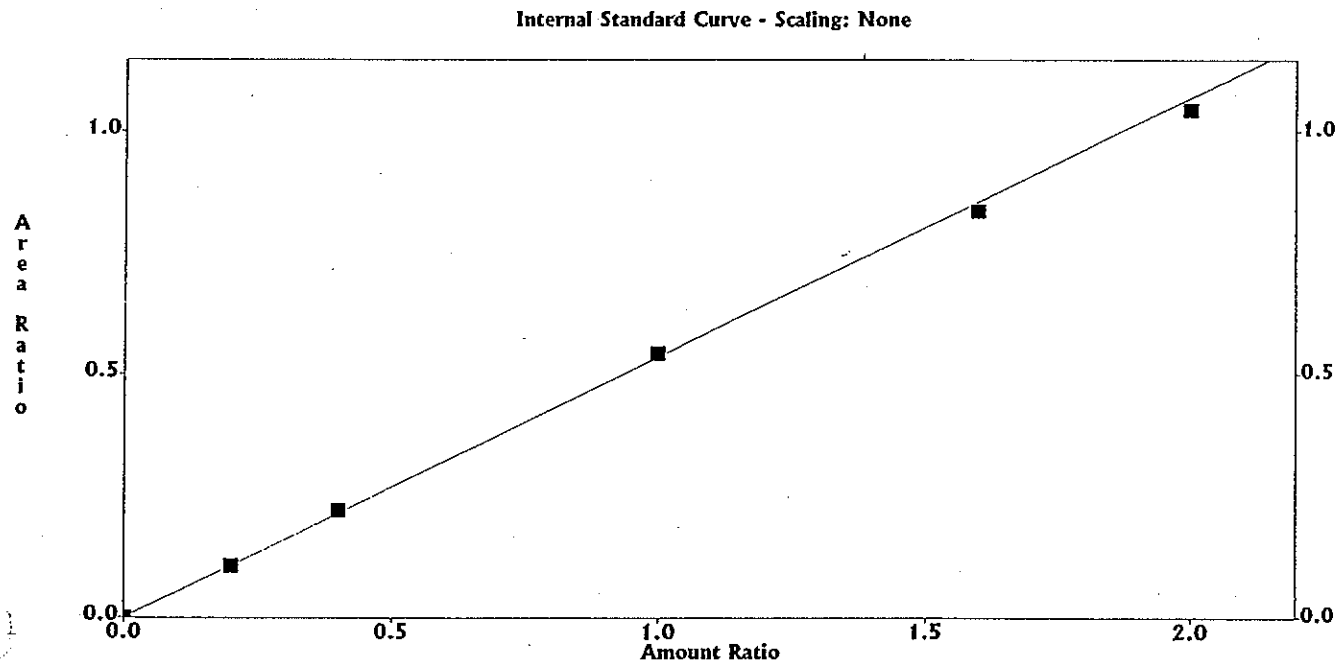
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1070	0.2	0.5352	0.1070							0
2	0.2206	0.4	0.5514	0.2206							0
3	0.5426	1	0.5426	0.5426							0
4	0.8372	1.6	0.5232	0.8372							0
5	1.0448	2	0.5224	1.0448							0

Calib Flag: Replace

Average RF: 0.534963
RF StdDev: 0.0124948
RF %RSD: 2.336

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.534963



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 15 Dinoseb

* - Replicate Not Used

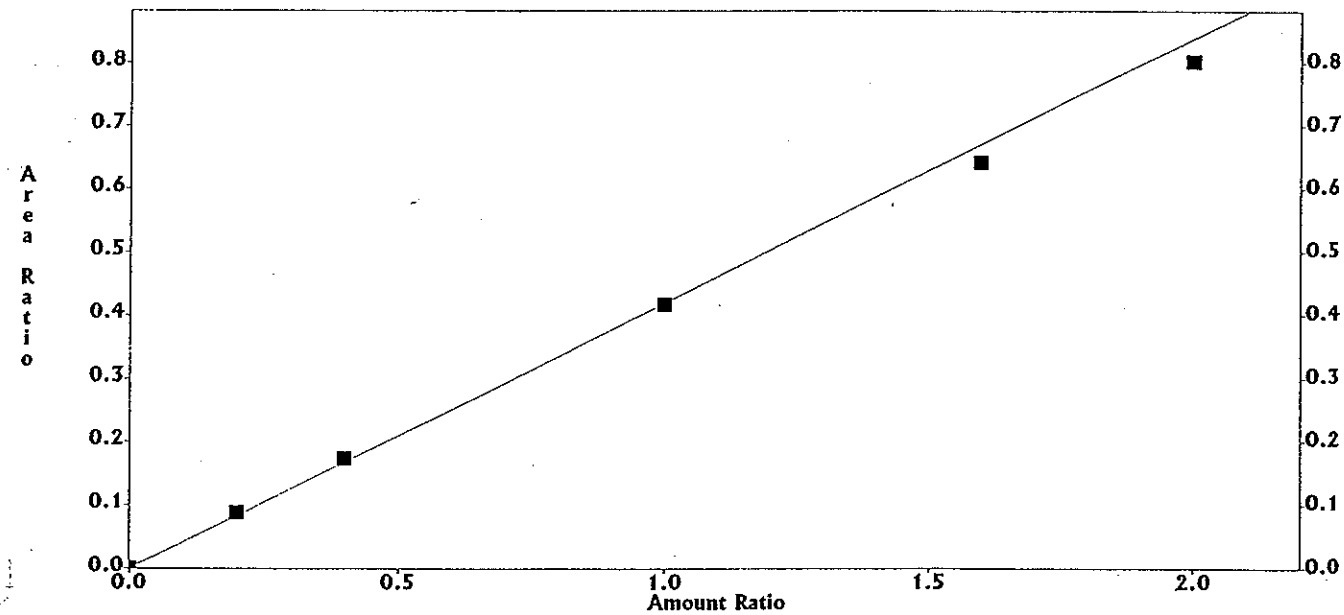
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0886	0.2	0.443	0.0886							0
2	0.1736	0.4	0.4341	0.1736							0
3	0.4173	1	0.4173	0.4173							0
4	0.6426	1.6	0.4016	0.6426							0
5	0.8032	2	0.4016	0.8032							0

Calib Flag: Replace

Average RF: 0.419514
RF StdDev: 0.018767
RF %RSD: 4.474

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.419514

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 16 2,4-DB

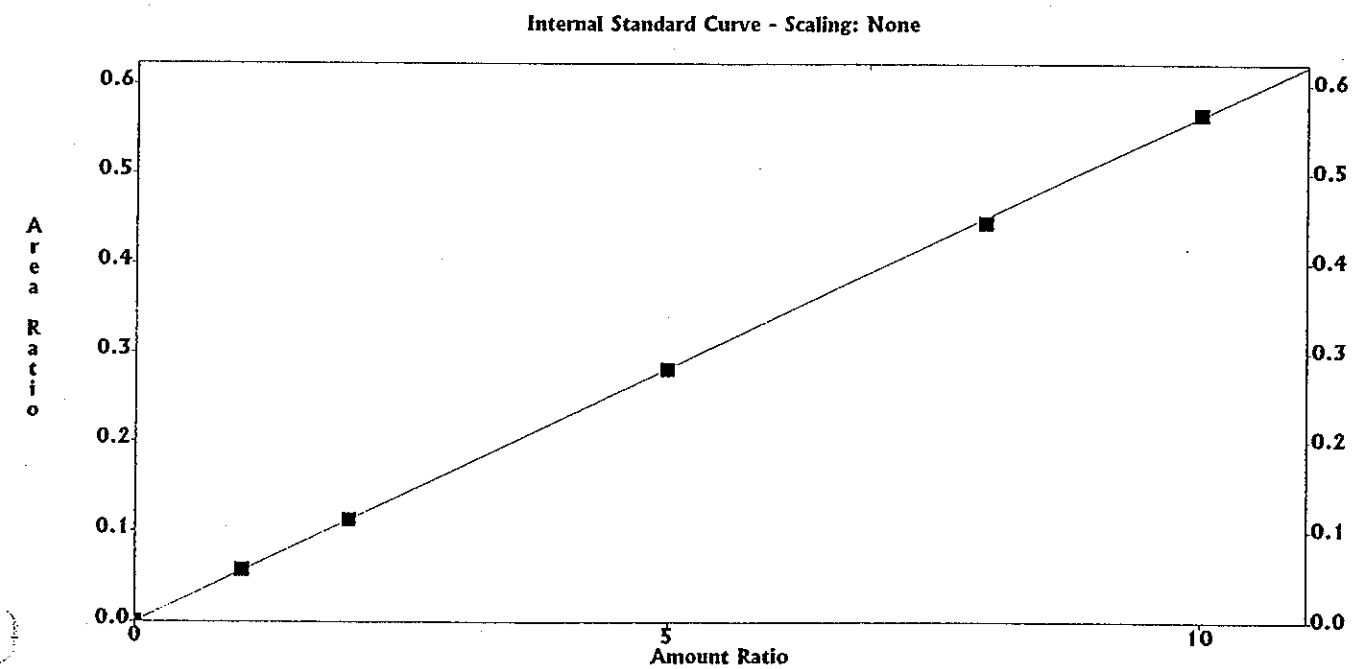
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0573	1	0.05726	0.0573							0
2	0.1127	2	0.05635	0.1127							0
3	0.2812	5	0.05624	0.2812							0
4	0.4457	8	0.05571	0.4457							0
5	0.5670	10	0.0567	0.5670							0

Calib Flag: Replace

Average RF: 0.0564517
RF StdDev: 0.000575168
RF %RSD: 1.019

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0564517



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 17 Bentazon

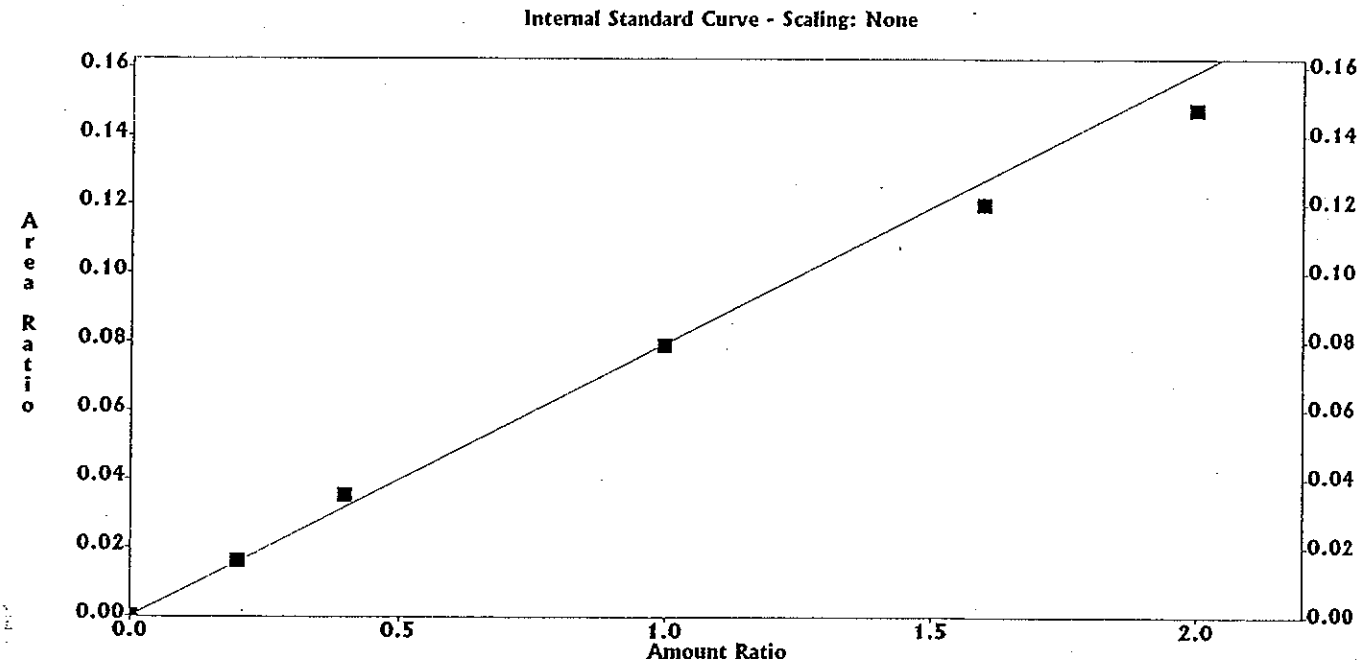
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0162	0.2	0.08079	0.0162							0
2	0.0354	0.4	0.08842	0.0354							0
3	0.0789	1	0.07893	0.0789							0
4	0.1199	1.6	0.07497	0.1199							0
5	0.1477	2	0.07386	0.1477							0

Calib Flag: Replace

Average RF: 0.0793922
RF StdDev: 0.00578699
RF %RSD: 7.289

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0793922



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 18 Picloram

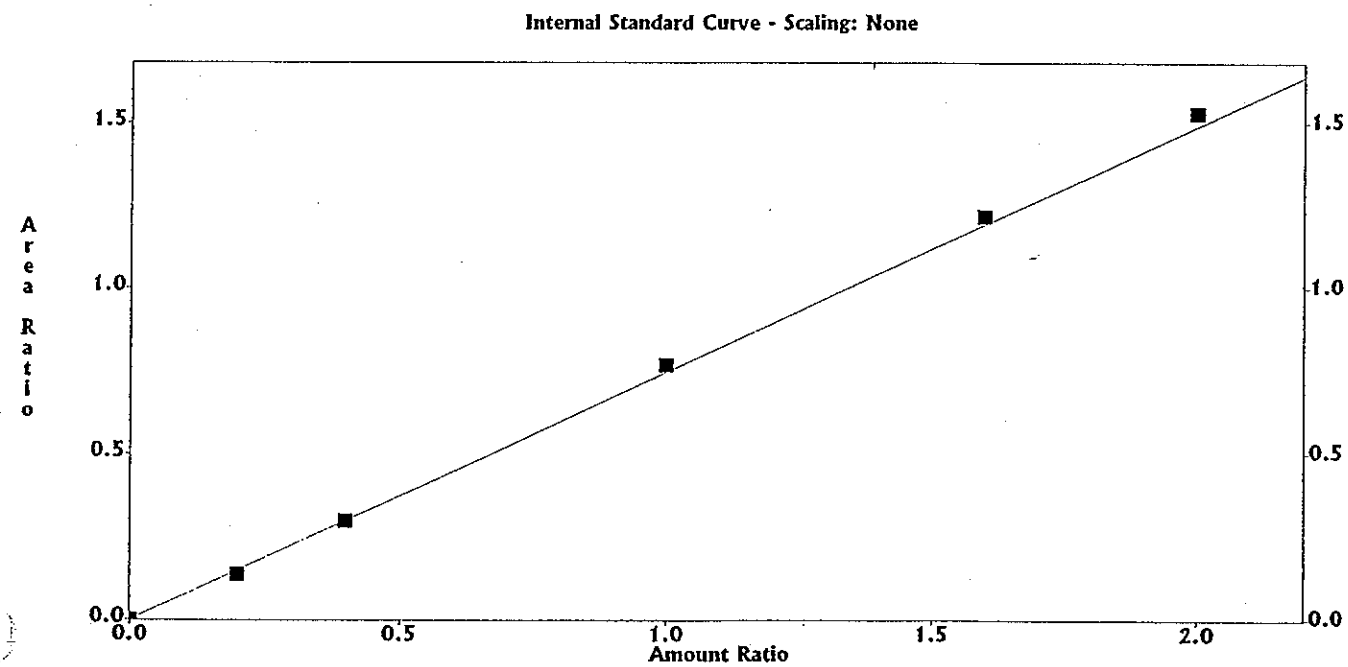
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1373	0.2	0.6865	0.1373							0
2	0.2981	0.4	0.7453	0.2981							0
3	0.7690	1	0.769	0.7690							0
4	1.2179	1.6	0.7612	1.2179							0
5	1.5313	2	0.7656	1.5313							0

Calib Flag: Replace

Average RF: 0.745522
RF StdDev: 0.0342195
RF %RSD: 4.590

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.745522



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 19 DCPA

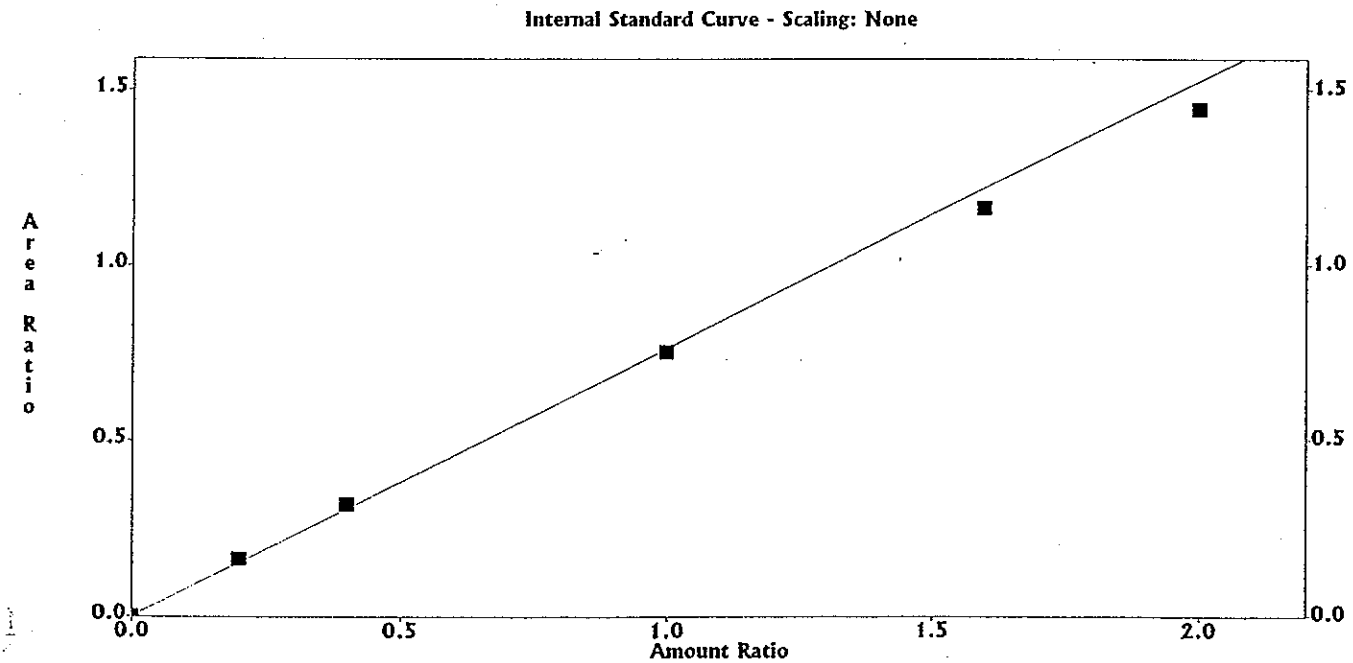
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1631	0.2	0.8156	0.1631							0
2	0.3183	0.4	0.7957	0.3183							0
3	0.7539	1	0.7539	0.7539							0
4	1.1638	1.6	0.7274	1.1638							0
5	1.4456	2	0.7228	1.4456							0

Calib Flag: Replace

Average RF: 0.763057
RF StdDev: 0.0412422
RF %RSD: 5.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.763057



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:37
Channel : A
Peak : 20 Acifluorfen

* - Replicate Not Used

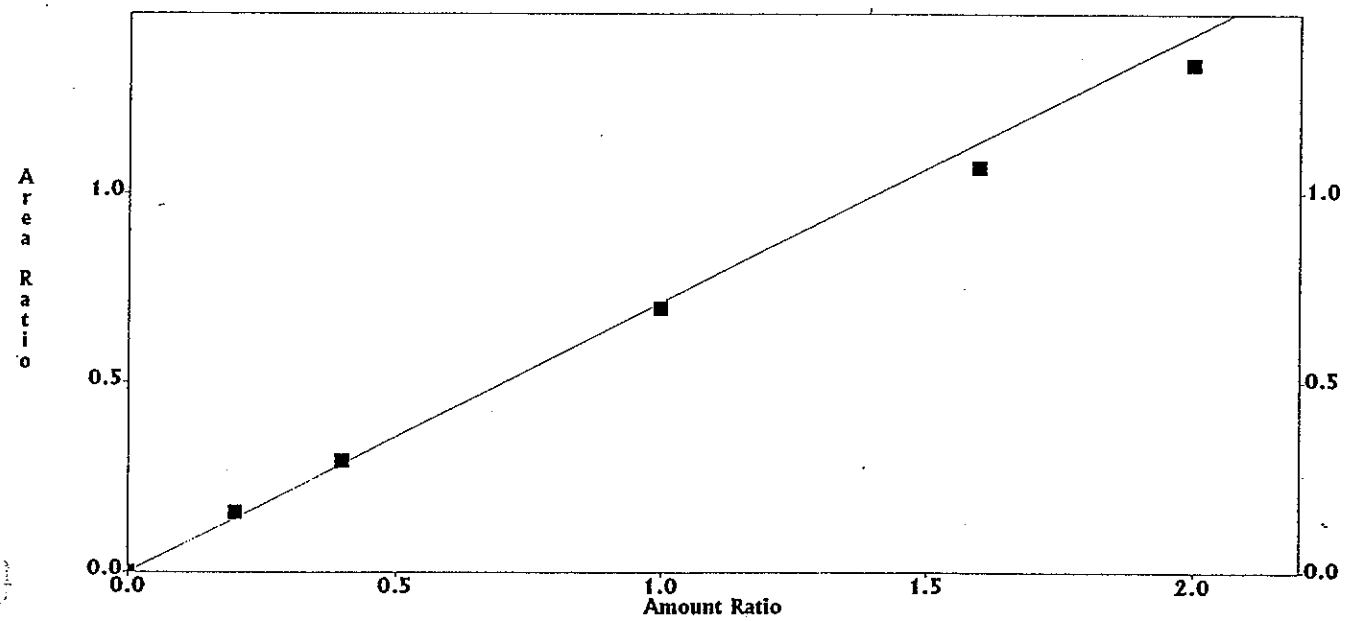
.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1579	0.2	0.7895	0.1579							0
2	0.2921	0.4	0.7303	0.2921							0
3	0.6957	1	0.6957	0.6957							0
4	1.0683	1.6	0.6677	1.0683							0
5	1.3422	2	0.6711	1.3422							0

Calib Flag: Replace

Average RF: 0.710861
RF StdDev: 0.0506144
RF %RSD: 7.120

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.710861

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 1 Dalapon

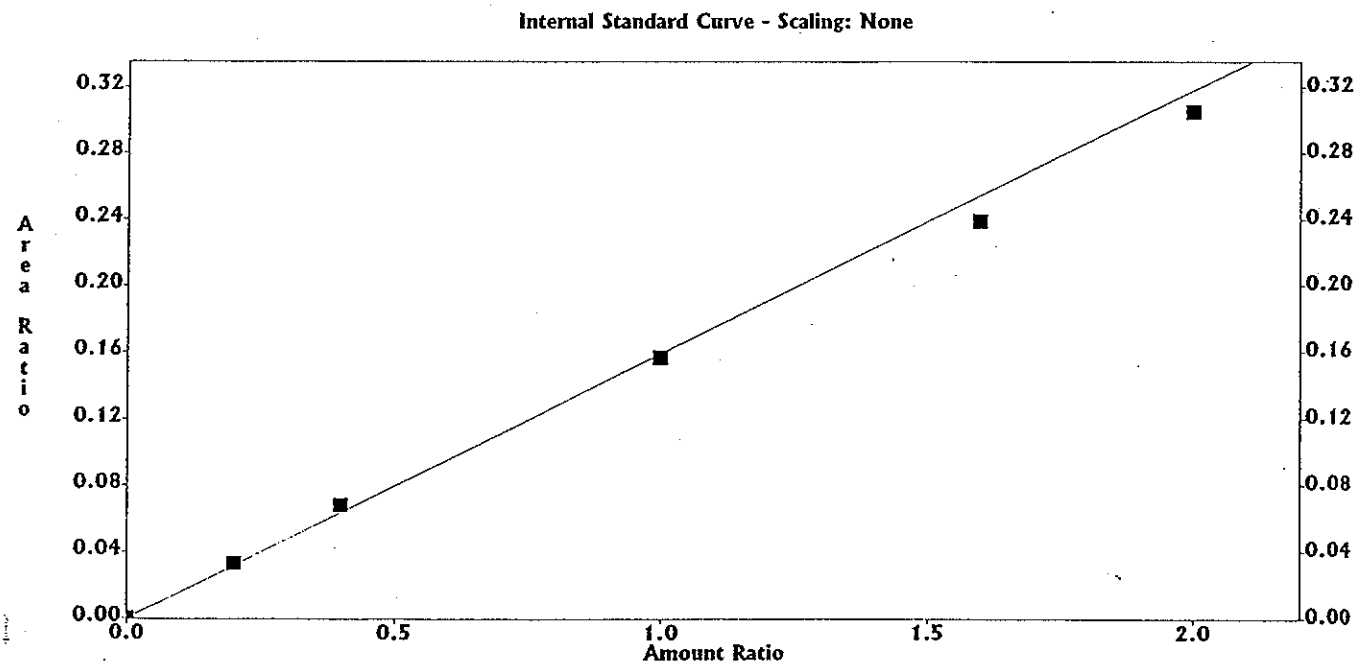
* - Replicate Not Used

al	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0332	0.2	0.1659	0.0332							0
2	0.0683	0.4	0.1707	0.0683							0
3	0.1569	1	0.1569	0.1569							0
4	0.2390	1.6	0.1494	0.2390							0
5	0.3051	2	0.1525	0.3051							0

Calib Flag: Replace

Average RF: 0.159073
RF StdDev: 0.00900517
RF %RSD: 5.661

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.159073



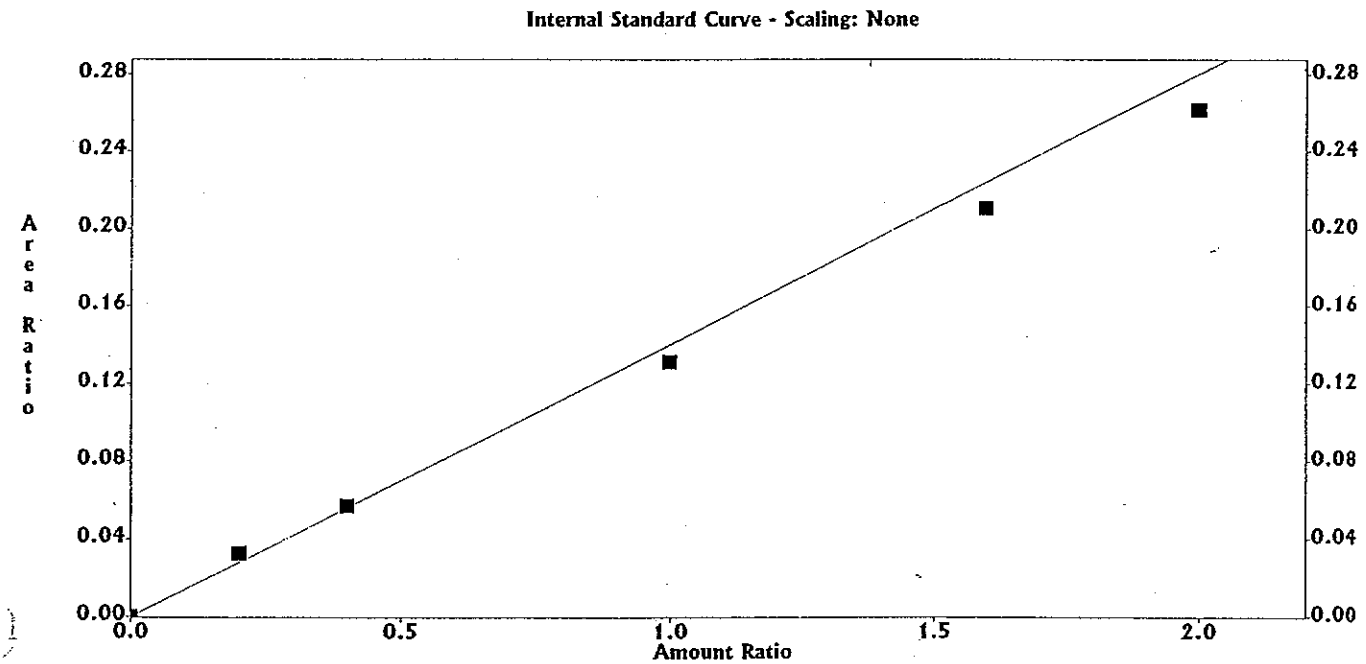
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0328	0.2	0.1638	0.0328							0
2	0.0571	0.4	0.1428	0.0571							0
3	0.1316	1	0.1316	0.1316							0
4	0.2108	1.6	0.1317	0.2108							0
5	0.2617	2	0.1309	0.2617							0

Calib Flag: Replace

Average RF: 0.140157
RF StdDev: 0.0141192
RF %RSD: 10.074

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.140157



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 3 4-Nitrophenol

* - Replicate Not Used

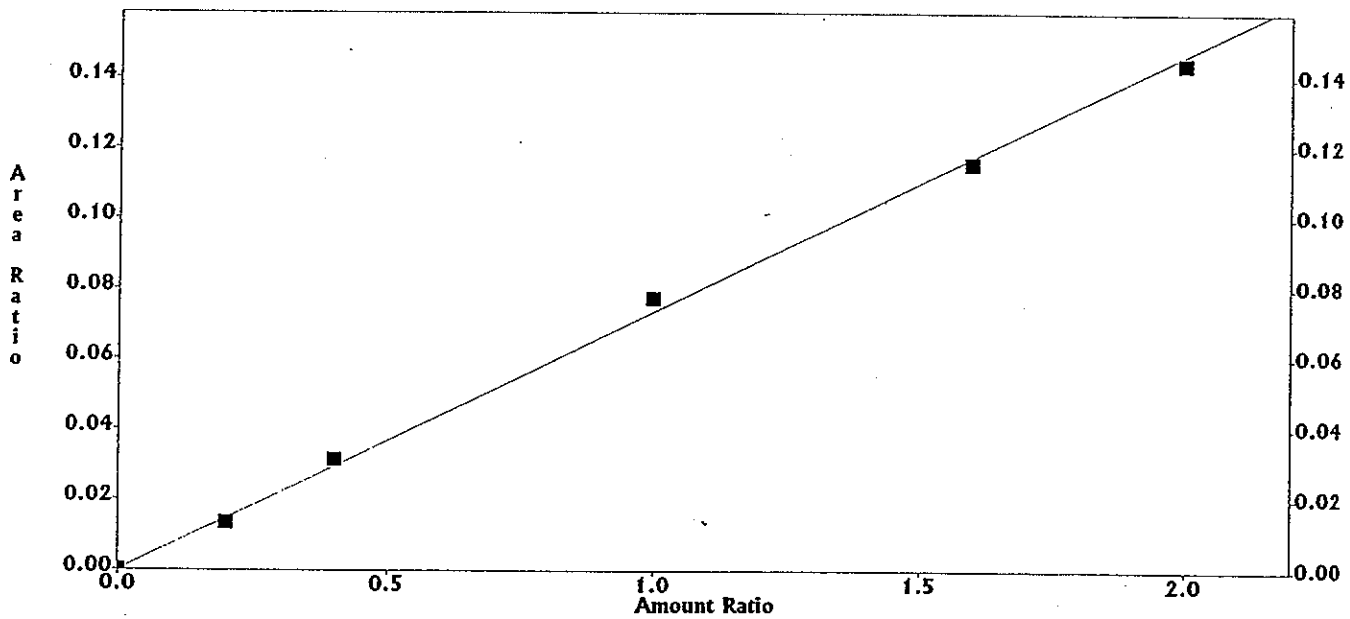
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0134	0.2	0.0671	0.0134							0
2	0.0314	0.4	0.07844	0.0314							0
3	0.0773	1	0.07727	0.0773							0
4	0.1156	1.6	0.07227	0.1156							0
5	0.1443	2	0.07216	0.1443							0

Calib Flag: Replace

Average RF: 0.0734475
RF StdDev: 0.0045514
RF %RSD: 6.197

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0734475

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 4 DCAA (surr)

* - Replicate Not Used

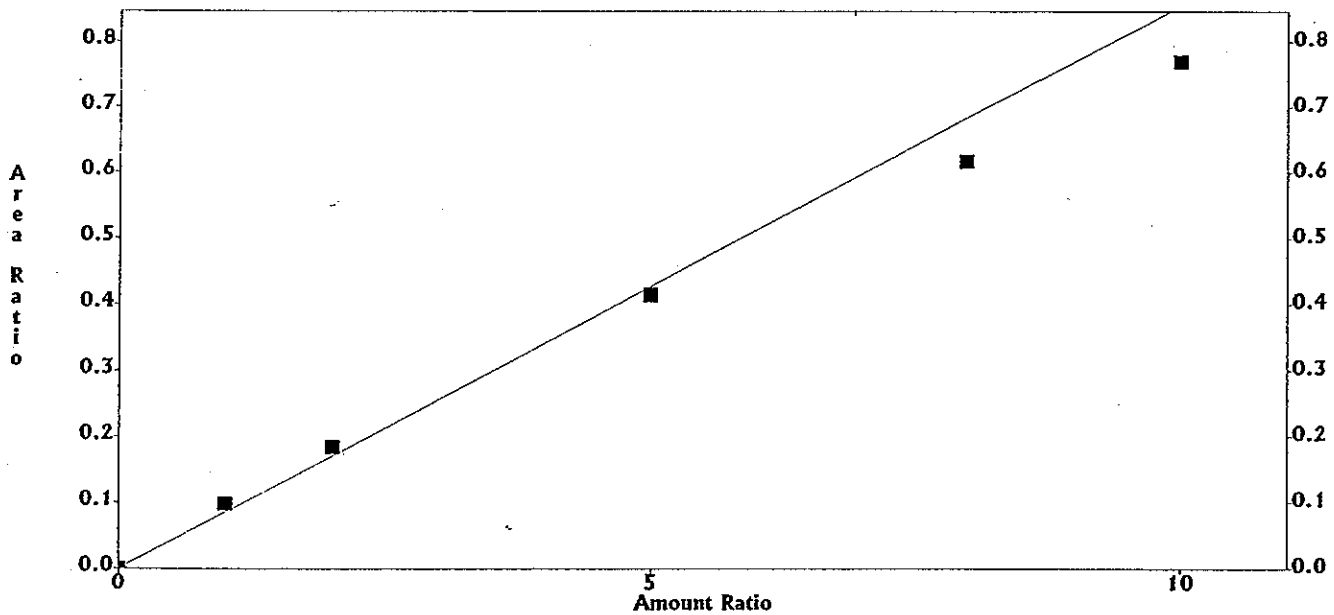
.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0983	1	0.09832	0.0983							0
2	0.1846	2	0.09231	0.1846							0
3	0.4149	5	0.08299	0.4149							0
4	0.6178	8	0.07722	0.6178							0
5	0.7704	10	0.07704	0.7704							0

Calib Flag: Replace

Average RF: 0.0855754
RF StdDev: 0.00944904
RF %RSD: 11.042

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0855754

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 5 Dicamba

* - Replicate Not Used

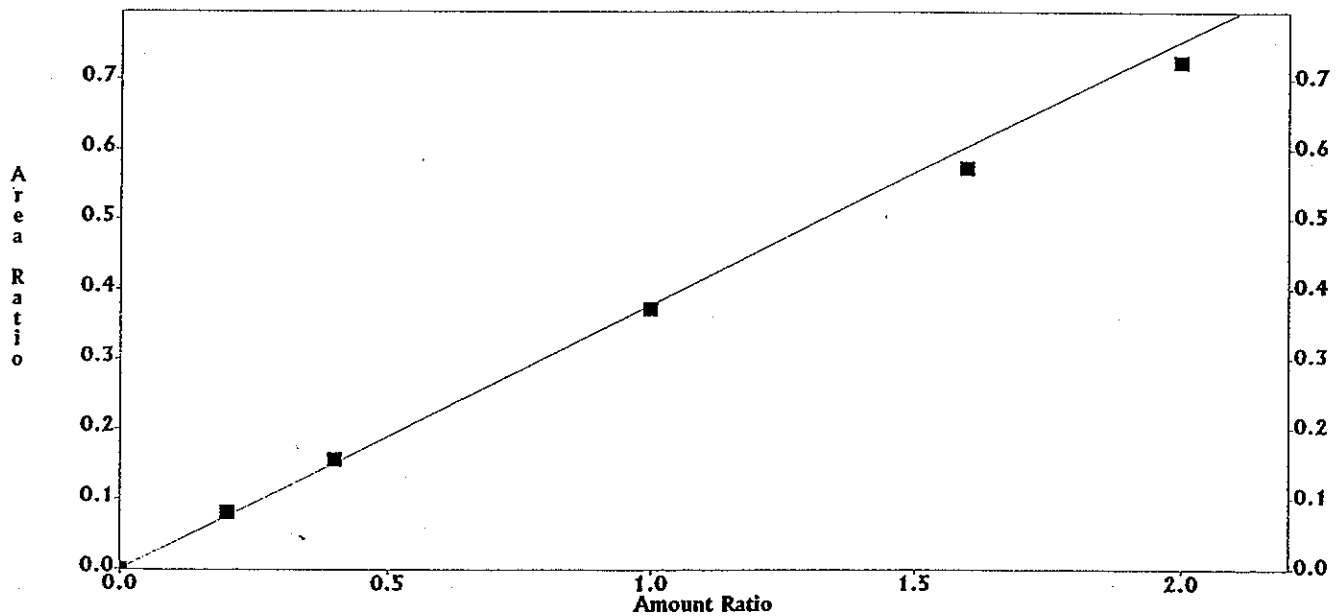
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0809	0.2	0.4047	0.0809							0
2	0.1564	0.4	0.3911	0.1564							0
3	0.3723	1	0.3723	0.3723							0
4	0.5733	1.6	0.3583	0.5733							0
5	0.7254	2	0.3627	0.7254							0

Calib Flag: Replace

Average RF: 0.37782
RF StdDev: 0.0196009
RF %RSD: 5.188

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.37782

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 6 MCPP (ppm)

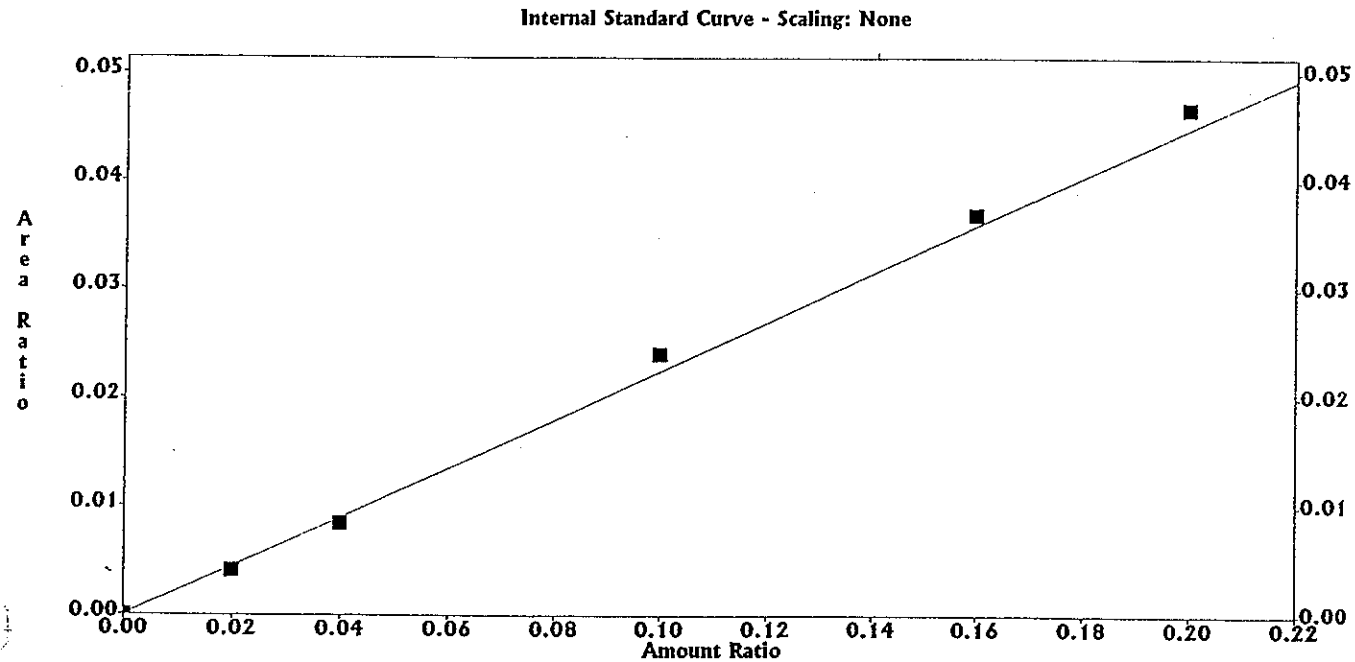
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	0.02	0.2051	0.0041							0
2	0.0085	0.04	0.2113	0.0085							0
3	0.0240	0.1	0.2405	0.0240							0
4	0.0369	0.16	0.2306	0.0369							0
5	0.0467	0.2	0.2336	0.0467							0

Calib Flag: Replace

Average RF: 0.22421
RF StdDev: 0.0152017
RF %RSD: 6.780

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.22421



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 7 DBOB (IS)

* - Replicate Not Used

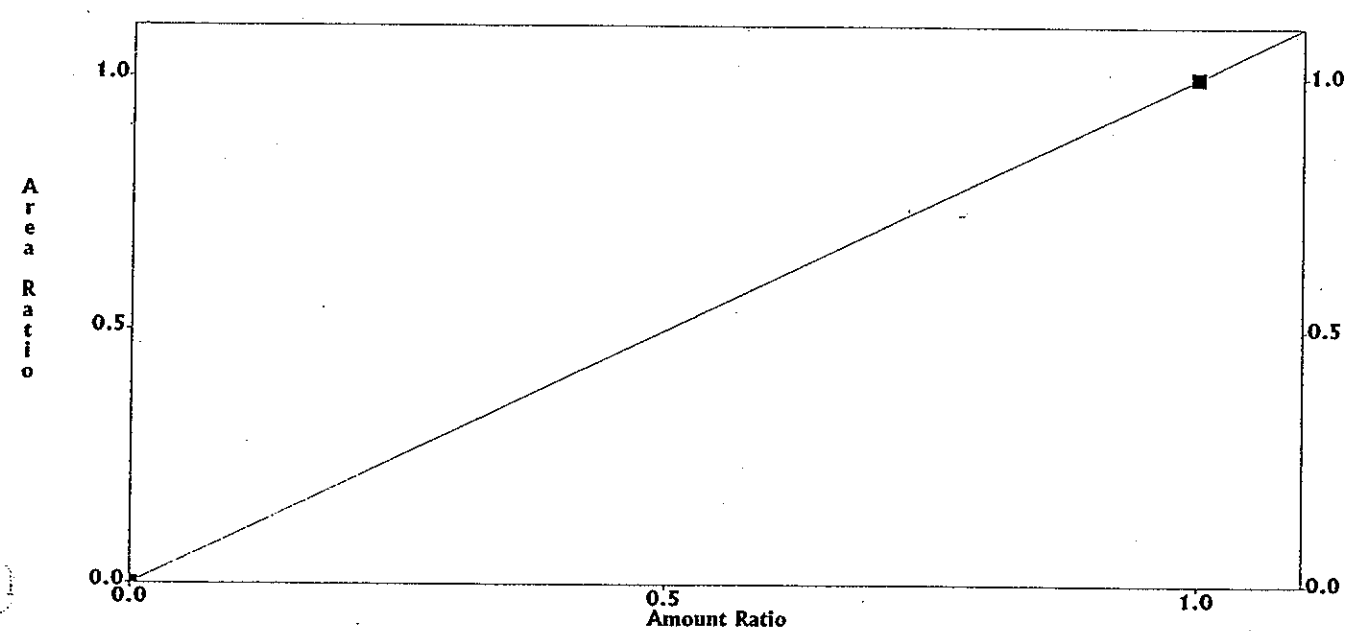
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 8 MCPA (ppm)

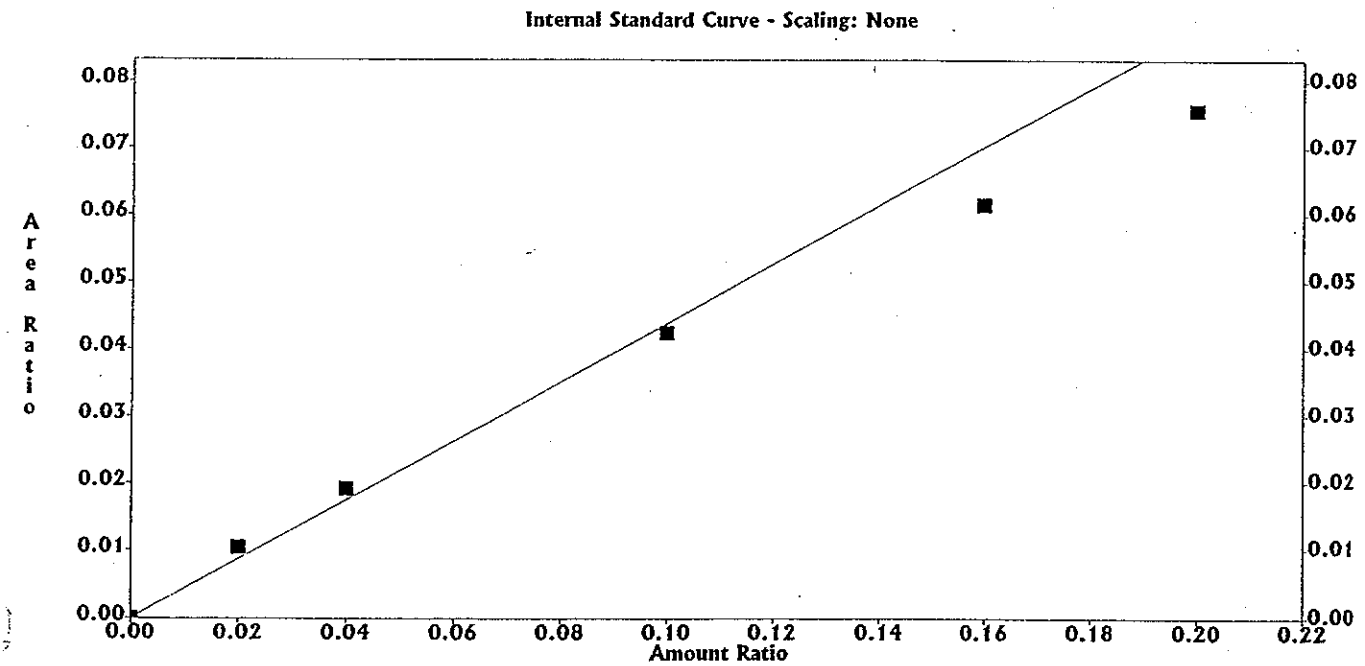
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0105	0.02	0.5256	0.0105							0
2	0.0192	0.04	0.4812	0.0192							0
3	0.0425	0.1	0.4247	0.0425							0
4	0.0615	0.16	0.3845	0.0615							0
5	0.0757	0.2	0.3786	0.0757							0

Calib Flag: Replace

Average RF: 0.438923
RF StdDev: 0.0634385
RF %RSD: 14.453

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.438923



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 9 Dichloroprop

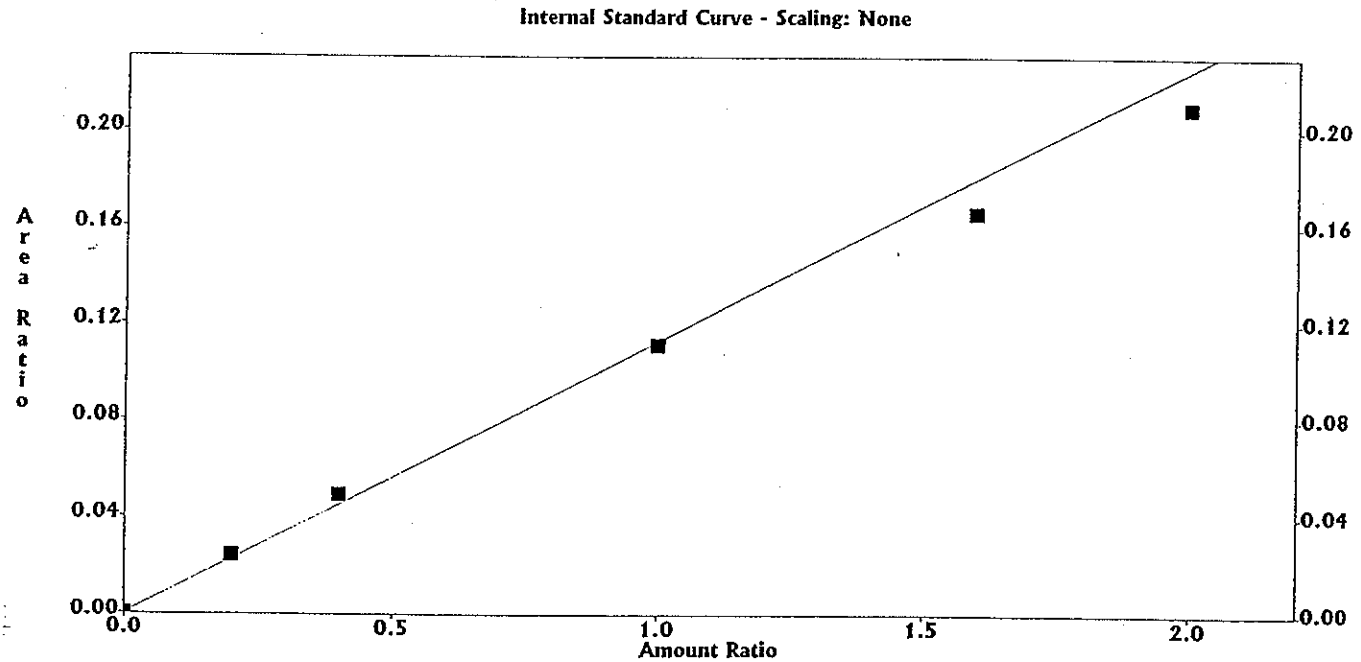
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0241	0.2	0.1206	0.0241							0
2	0.0492	0.4	0.123	0.0492							0
3	0.1111	1	0.1111	0.1111							0
4	0.1658	1.6	0.1036	0.1658							0
5	0.2097	2	0.1048	0.2097							0

Calib Flag: Replace

Average RF: 0.112632
RF StdDev: 0.00887648
RF %RSD: 7.881

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.112632



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 10 2,4-D (m)

* - Replicate Not Used

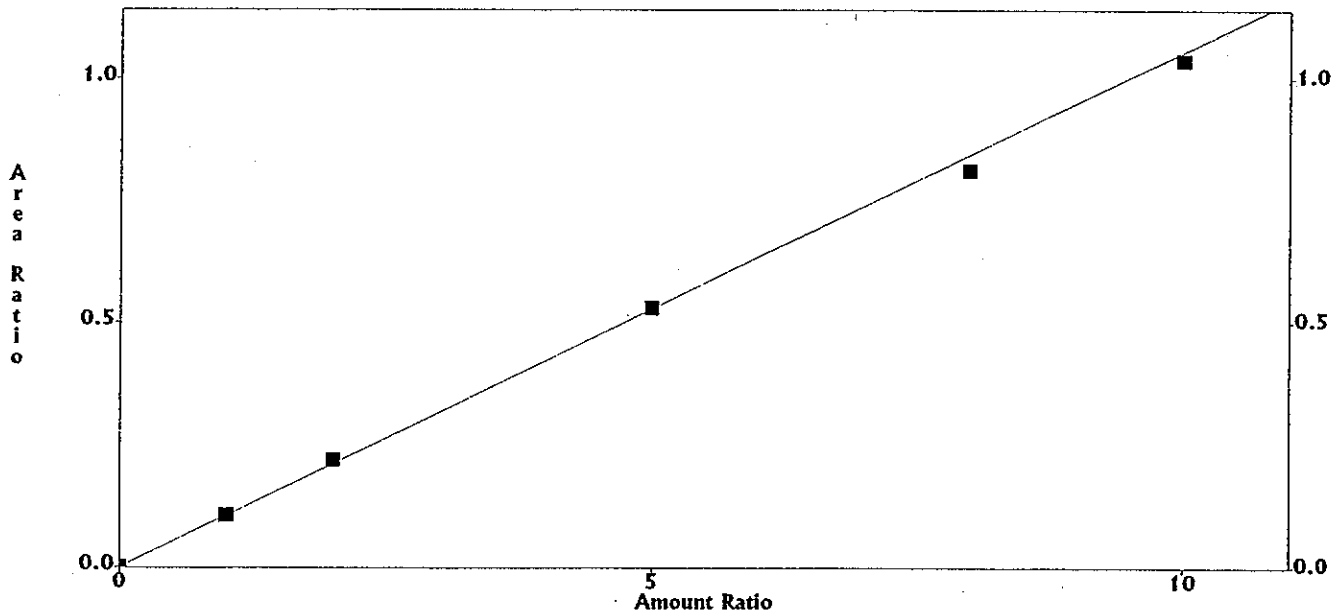
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1068	1	0.1068	0.1068							0
2	0.2199	2	0.1099	0.2199							0
3	0.5309	5	0.1062	0.5309							0
4	0.8125	8	0.1016	0.8125							0
5	1.0390	10	0.1039	1.0390							0

Calib Flag: Replace

Average RF: 0.105689
RF StdDev: 0.00315904
RF %RSD: 2.989

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.105689

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 11 Pentachlorphenol

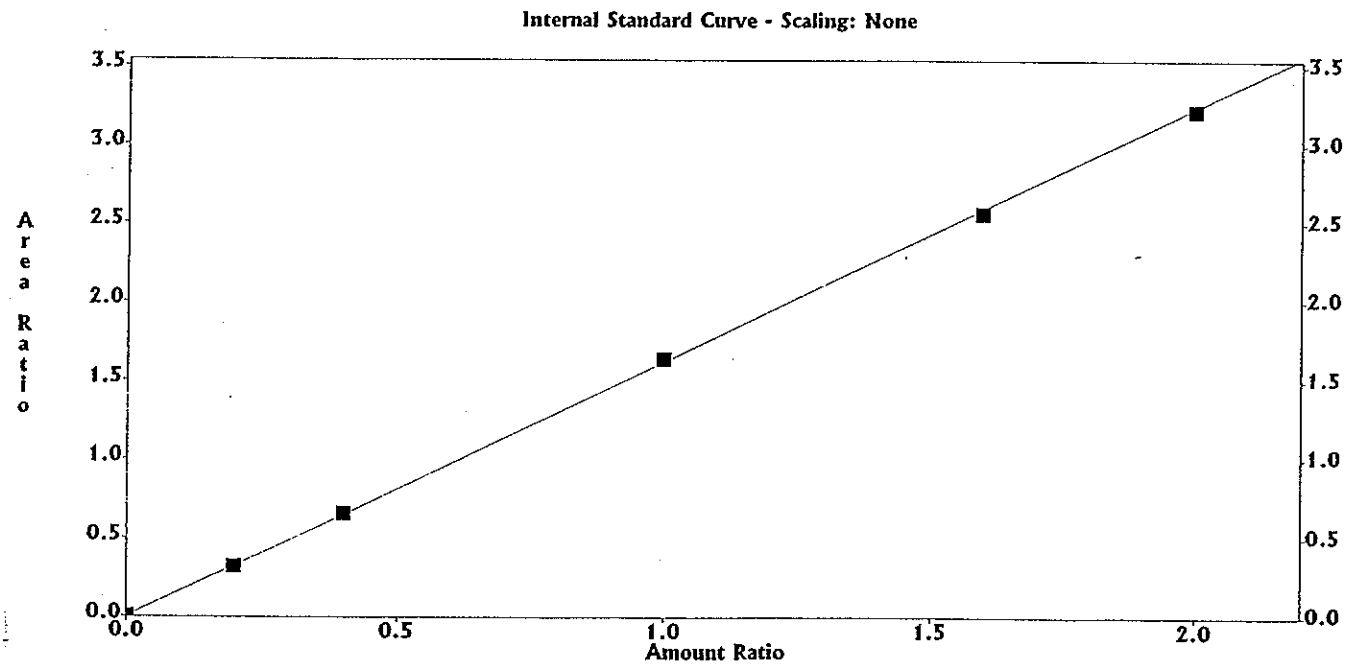
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3215	0.2	1.61	0.3215							0
2	0.6569	0.4	1.64	0.6569							0
3	1.6403	1	1.64	1.6403							0
4	2.5636	1.6	1.60	2.5636							0
5	3.2221	2	1.61	3.2221							0

Calib Flag: Replace

Average RF: 1.62064
RF StdDev: 0.0191153
RF %RSD: 1.179

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.62064



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 12 Silvex (m)

* - Replicate Not Used

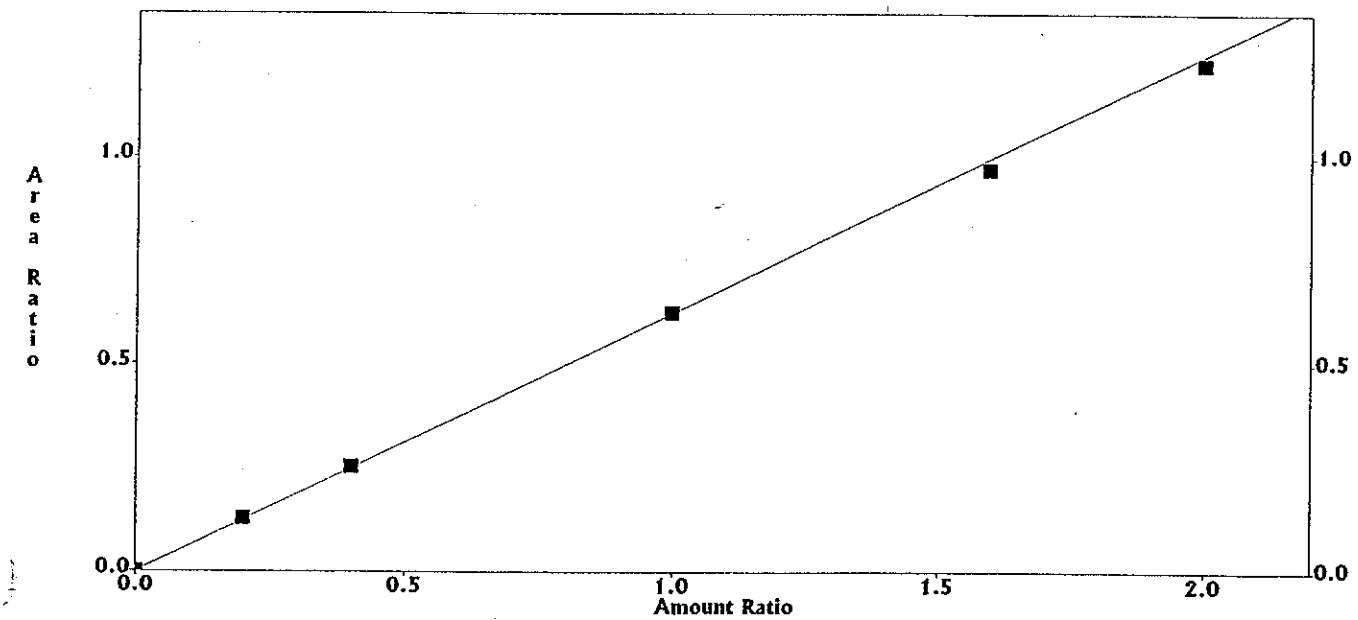
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1285	0.2	0.6423	0.1285							0
2	0.2527	0.4	0.6317	0.2527							0
3	0.6251	1	0.6251	0.6251							0
4	0.9710	1.6	0.6069	0.9710							0
5	1.2262	2	0.6131	1.2262							0

Calib Flag: Replace

Average RF: 0.623829
RF StdDev: 0.0142041
RF %RSD: 2.277

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.623829

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 13 2,4,5-T (m)

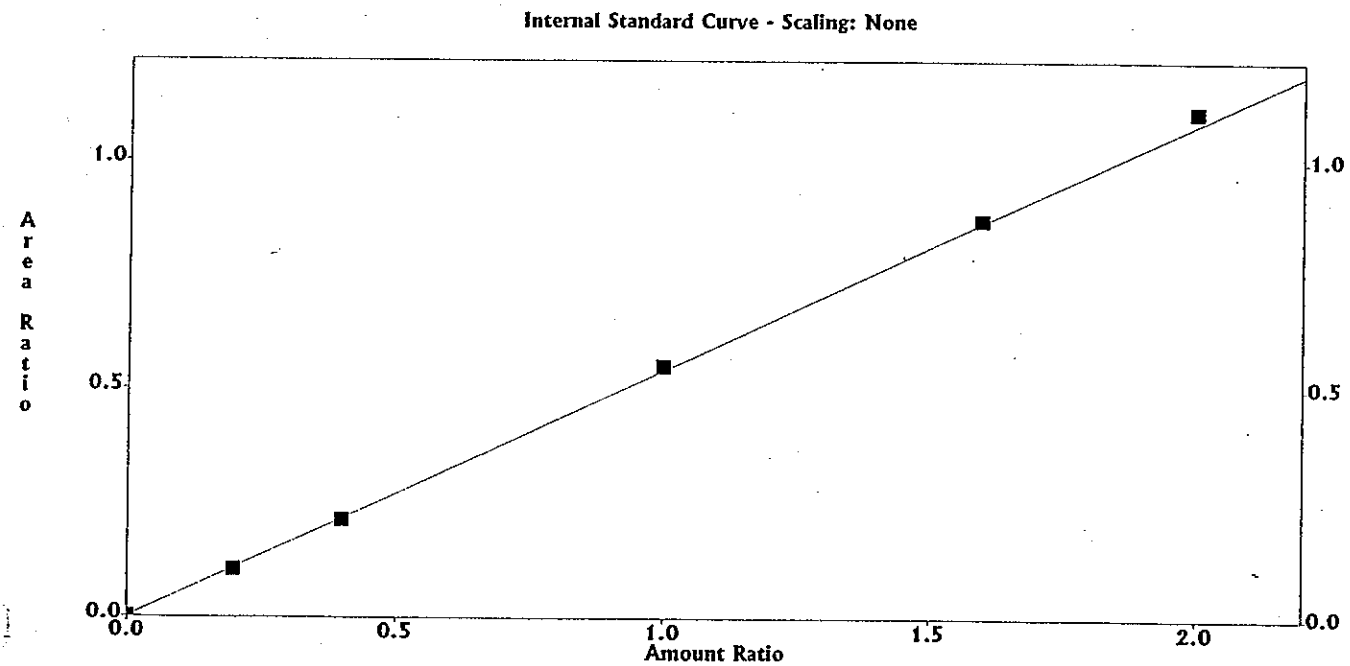
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1046	0.2	0.5232	0.1046							0
2	0.2129	0.4	0.5322	0.2129							0
3	0.5507	1	0.5507	0.5507							0
4	0.8723	1.6	0.5452	0.8723							0
5	1.1102	2	0.5551	1.1102							0

Calib Flag: Replace

Average RF: 0.541272
RF StdDev: 0.0132705
RF %RSD: 2.452

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.541272



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 14 Dinoseb

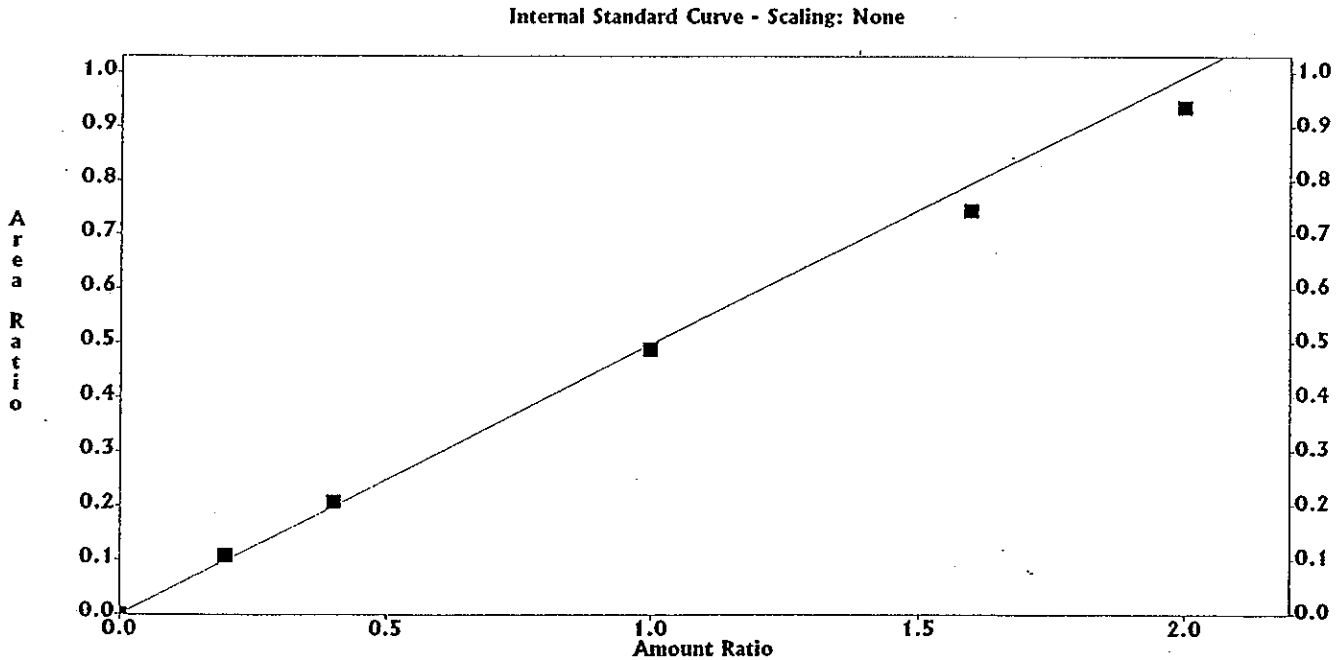
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1088	0.2	0.5442	0.1088							0
2	0.2074	0.4	0.5185	0.2074							0
3	0.4877	1	0.4877	0.4877							0
4	0.7450	1.6	0.4656	0.7450							0
5	0.9374	2	0.4687	0.9374							0

Calib Flag: Replace

Average RF: 0.496953
RF StdDev: 0.0337682
RF %RSD: 6.795

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.496953



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 15 Chloramben

* - Replicate Not Used

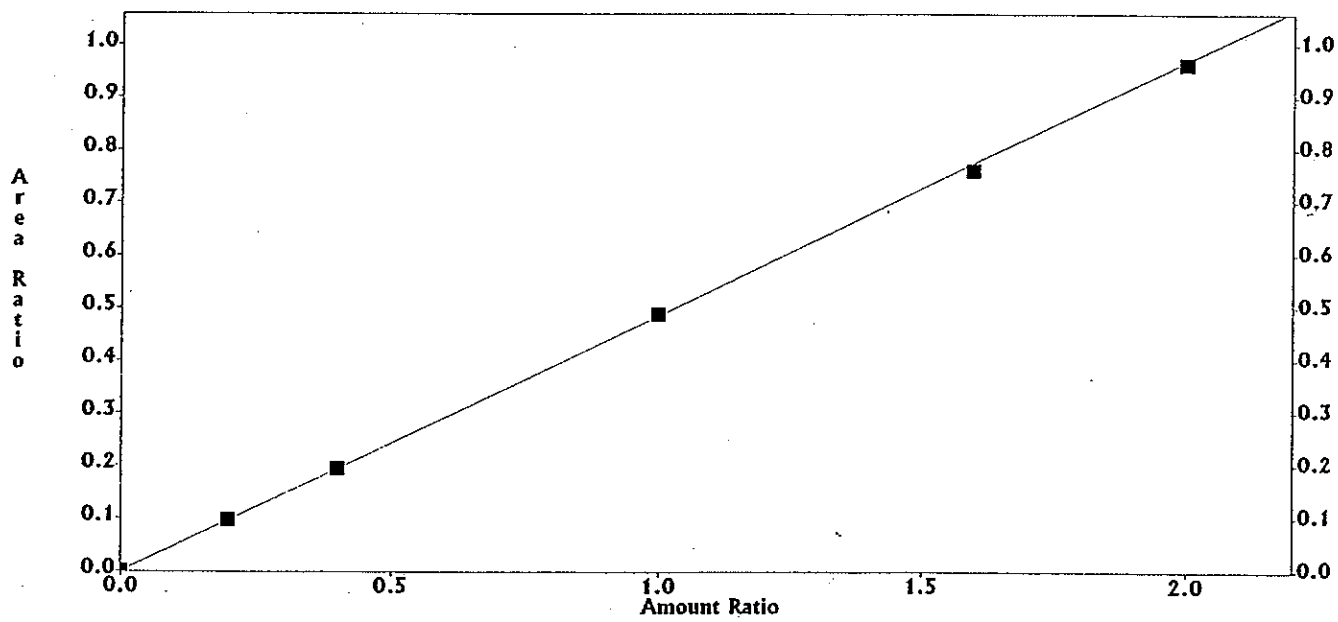
Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0984	0.2	0.4922	0.0984							0
2	0.1945	0.4	0.4862	0.1945							0
3	0.4885	1	0.4885	0.4885							0
4	0.7606	1.6	0.4754	0.7606							0
5	0.9633	2	0.4817	0.9633							0

Calib Flag: Replace

Average RF: 0.48477
RF StdDev: 0.00648515
RF %RSD: 1.338

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.48477

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 16 2,4-DB

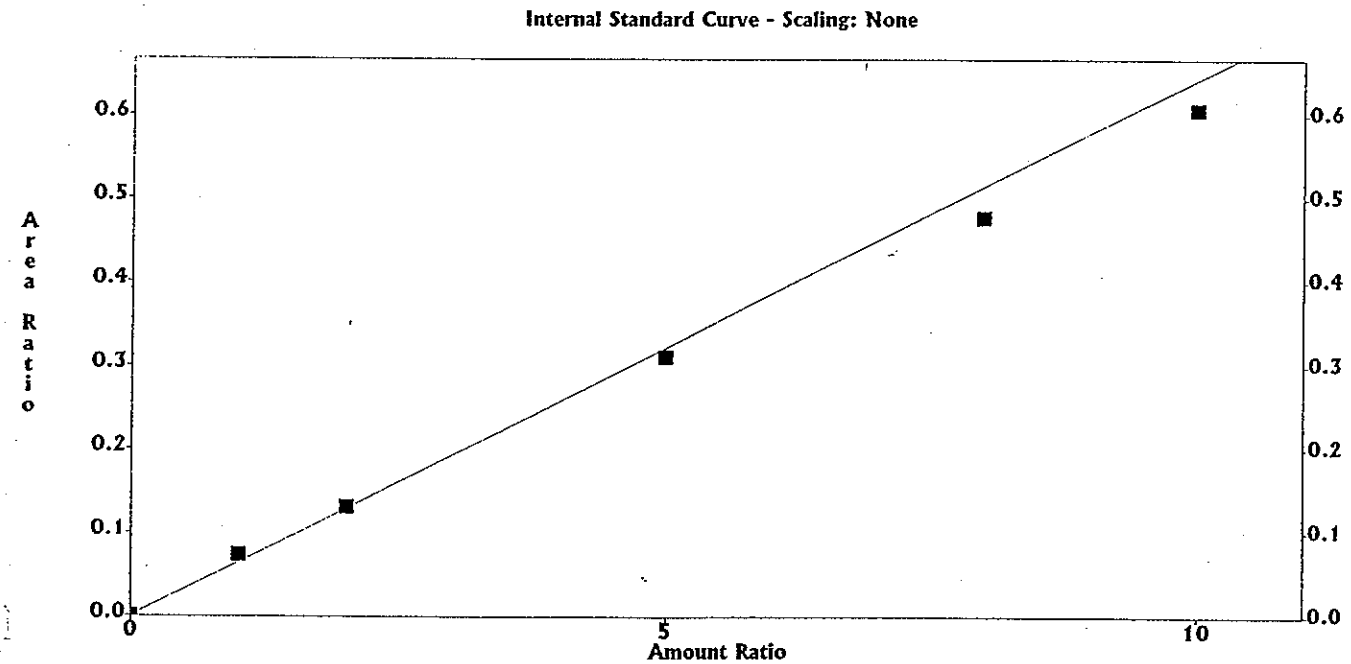
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0739	1	0.07388	0.0739							0
2	0.1309	2	0.06543	0.1309							0
3	0.3111	5	0.06223	0.3111							0
4	0.4774	8	0.05968	0.4774							0
5	0.6076	10	0.06076	0.6076							0

Calib Flag: Replace

Average RF: 0.0643943
RF StdDev: 0.00572644
RF %RSD: 8.893

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0643943



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 17 Bentazon

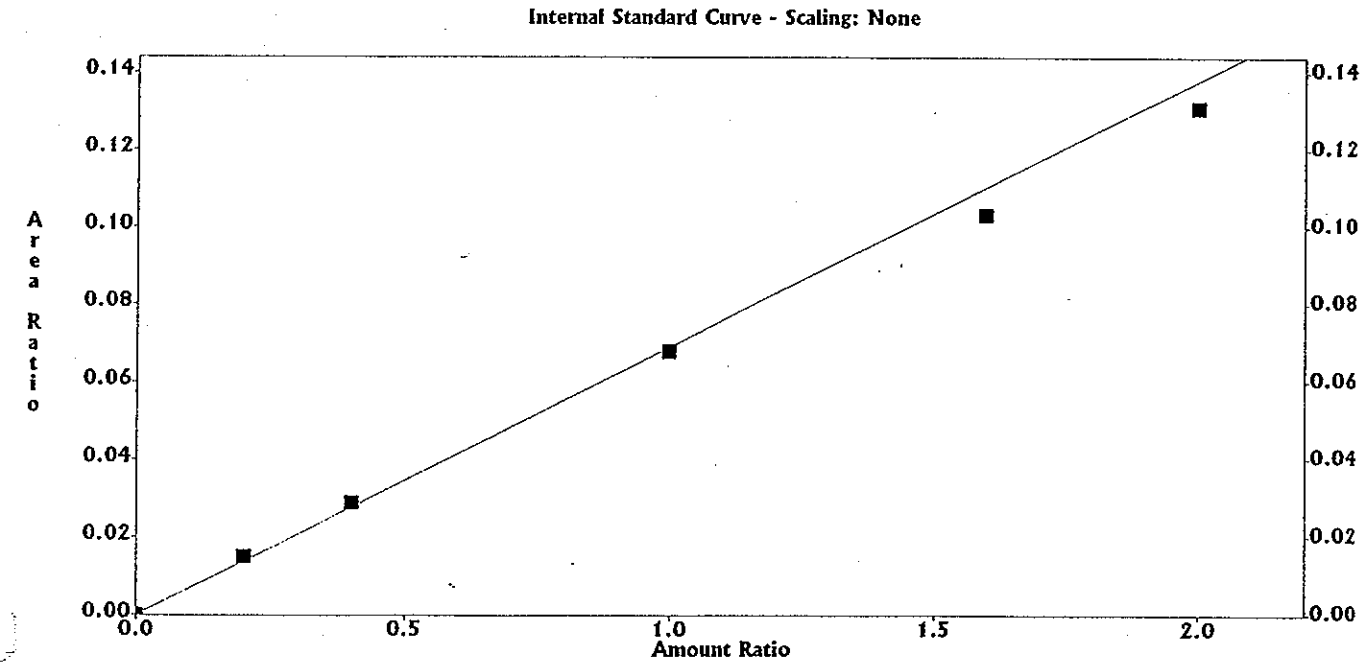
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0150	0.2	0.07504	0.0150							0
2	0.0287	0.4	0.07186	0.0287							0
3	0.0680	1	0.06797	0.0680							0
4	0.1032	1.6	0.06449	0.1032							0
5	0.1309	2	0.06547	0.1309							0

Calib Flag: Replace

Average RF: 0.0689651
RF StdDev: 0.00443058
RF %RSD: 6.424

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0689651



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 18 DCPA

* - Replicate Not Used

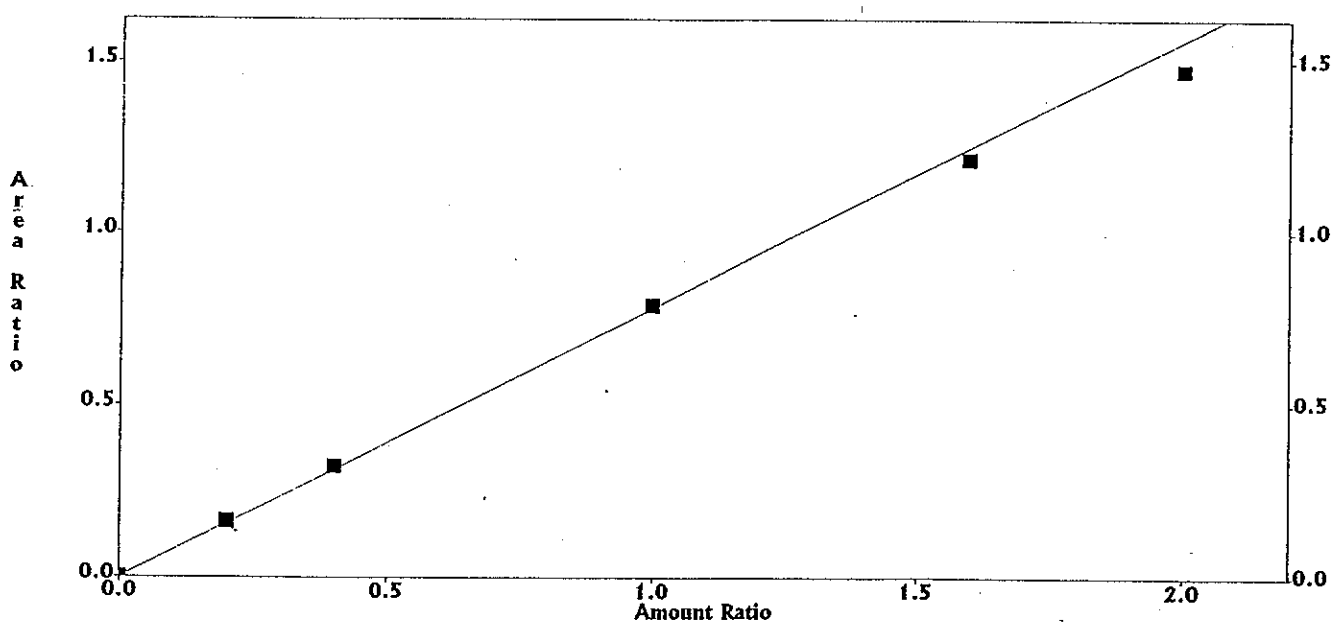
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1628	0.2	0.8142	0.1628							0
2	0.3226	0.4	0.8065	0.3226							0
3	0.7906	1	0.7906	0.7906							0
4	1.2167	1.6	0.7604	1.2167							0
5	1.4768	2	0.7384	1.4768							0

Calib Flag: Replace

Average RF: 0.782016
RF StdDev: 0.0319134
RF %RSD: 4.081

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.782016

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 19 Picloram

* - Replicate Not Used

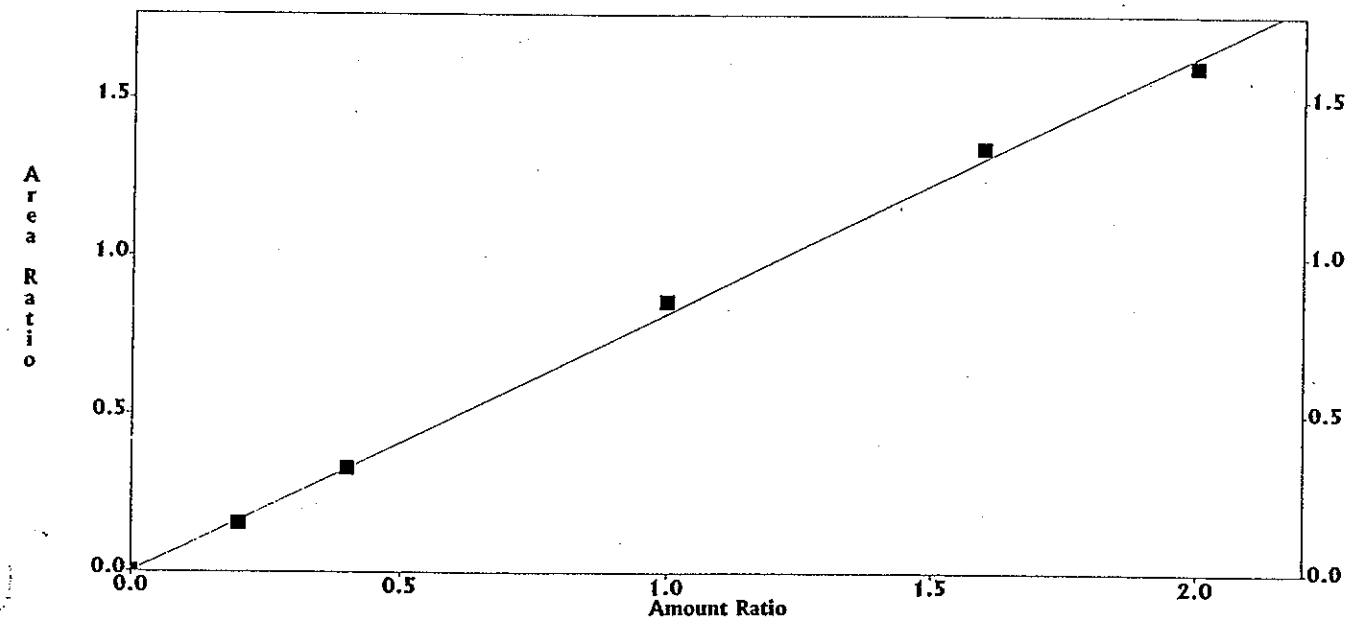
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1546	0.2	0.7728	0.1546							0
2	0.3302	0.4	0.8255	0.3302							0
3	0.8587	1	0.8587	0.8587							0
4	1.3462	1.6	0.8414	1.3462							0
5	1.6088	2	0.8044	1.6088							0

Calib Flag: Replace

Average RF: 0.820557
RF StdDev: 0.0333579
RF %RSD: 4.065

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.820557

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 20 Acifluorfen

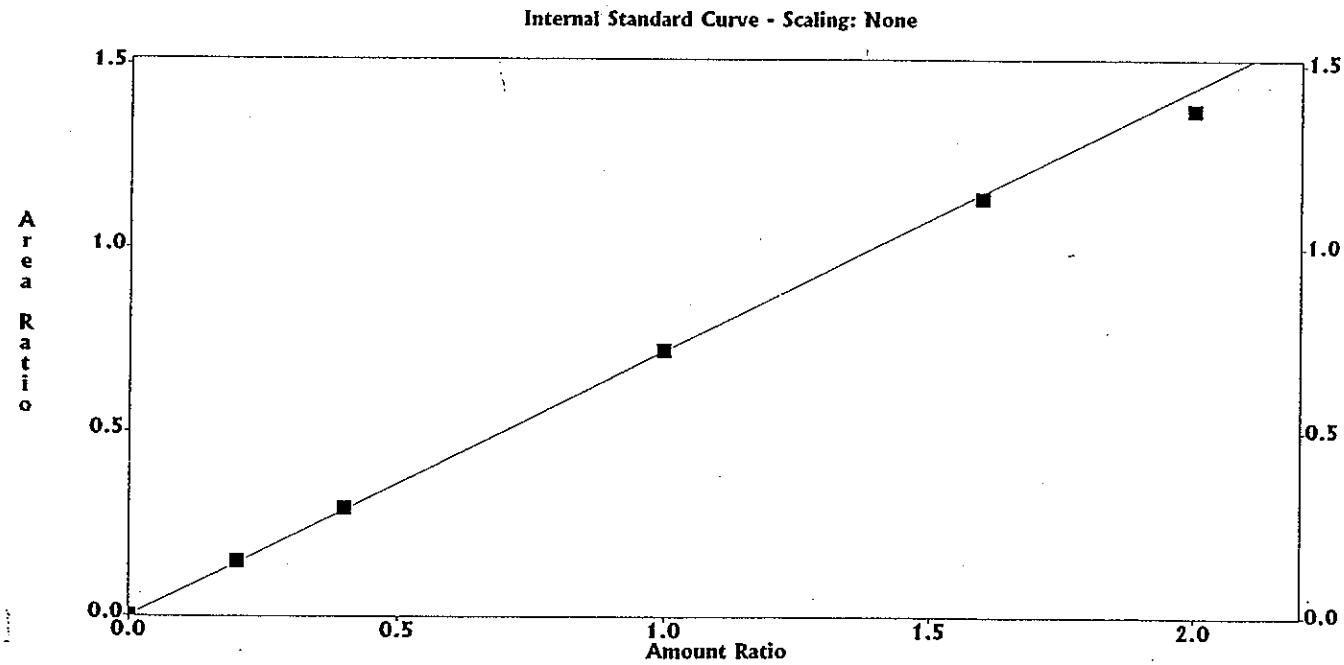
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1485	0.2	0.7425	0.1485							0
2	0.2930	0.4	0.7325	0.2930							0
3	0.7200	1	0.72	0.7200							0
4	1.1354	1.6	0.7096	1.1354							0
5	1.3782	2	0.6891	1.3782							0

Calib Flag: Replace

Average RF: 0.718754
RF StdDev: 0.020734
RF %RSD: 2.885

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.718754



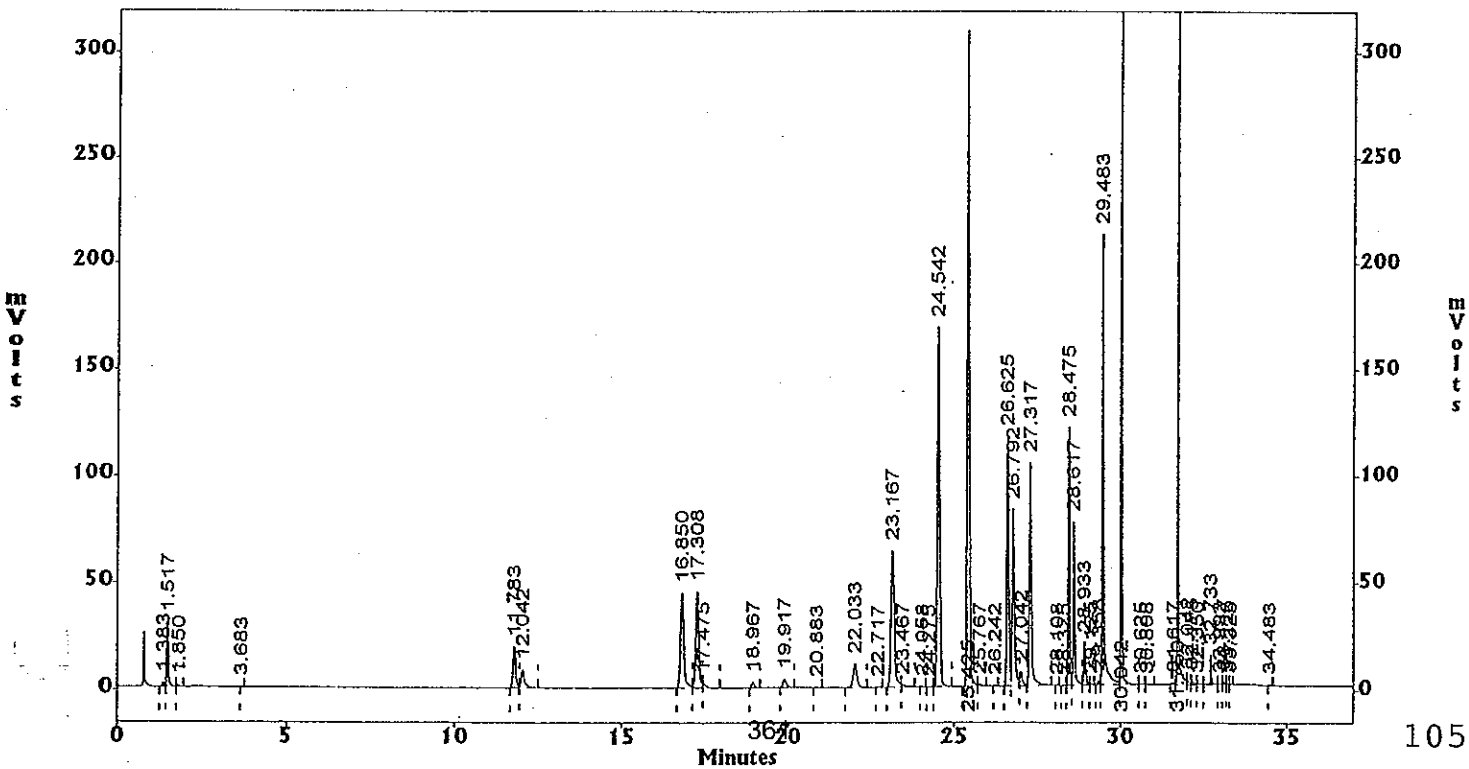
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
mple ID : ##03g3116,s GC14184
quired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.52	111475	29937	0.129749	251.15
5	2	3,5-Di-Cl-Bz acid	11.78	105410	19034	0.125046	246.42
6	3	4-Nitrophenol	12.04	59404	8280	0.070732	245.51
7	4	DCAA(Surr)	16.85	308684	44512	0.073885	1221.30
8	5	Dicamba	17.31	295593	45111	0.353447	244.48
10	6	MCPP(ppm)	18.97	16413	2582	0.179235	26.77
11	7	MCPA(PPm)	19.92	28134	3947	0.343572	23.94
13	8	Dichloroprop	22.03	87068	11009	0.099712	255.26
15	9	2,4-D (m)	23.17	431483	64067	0.101099	1247.61
19	10	DBOB (IS)	24.54	855215	168746	1.000000	250.00
20	11	Pentachlorphenol	25.42	1348189	309292	1.555308	253.40
23	12	Silvex (m)	26.63	484308	117189	0.558710	253.40
24	13	Chloramben	26.79	383702	82699	0.444269	252.47
26	14	2,4,5-T (m)	27.32	463950	104438	0.534963	253.52
29	15	Dinoseb	28.48	358769	121119	0.419514	250.00
30	16	2,4-DB	28.62	240558	76533	0.056452	1245.68
31	17	Bentazon	28.93	67993	19904	0.079392	250.35
34	18	Picloram	29.48	662747	211569	0.745522	259.87
35	19	DCPA	30.04	657205	316649	0.763057	251.77
39	20	Acifluorfen	31.75	609417	316960	0.710861	250.61

c:\data\2003\0307\8151t\03g3116\3116g.q01 -- Channel A



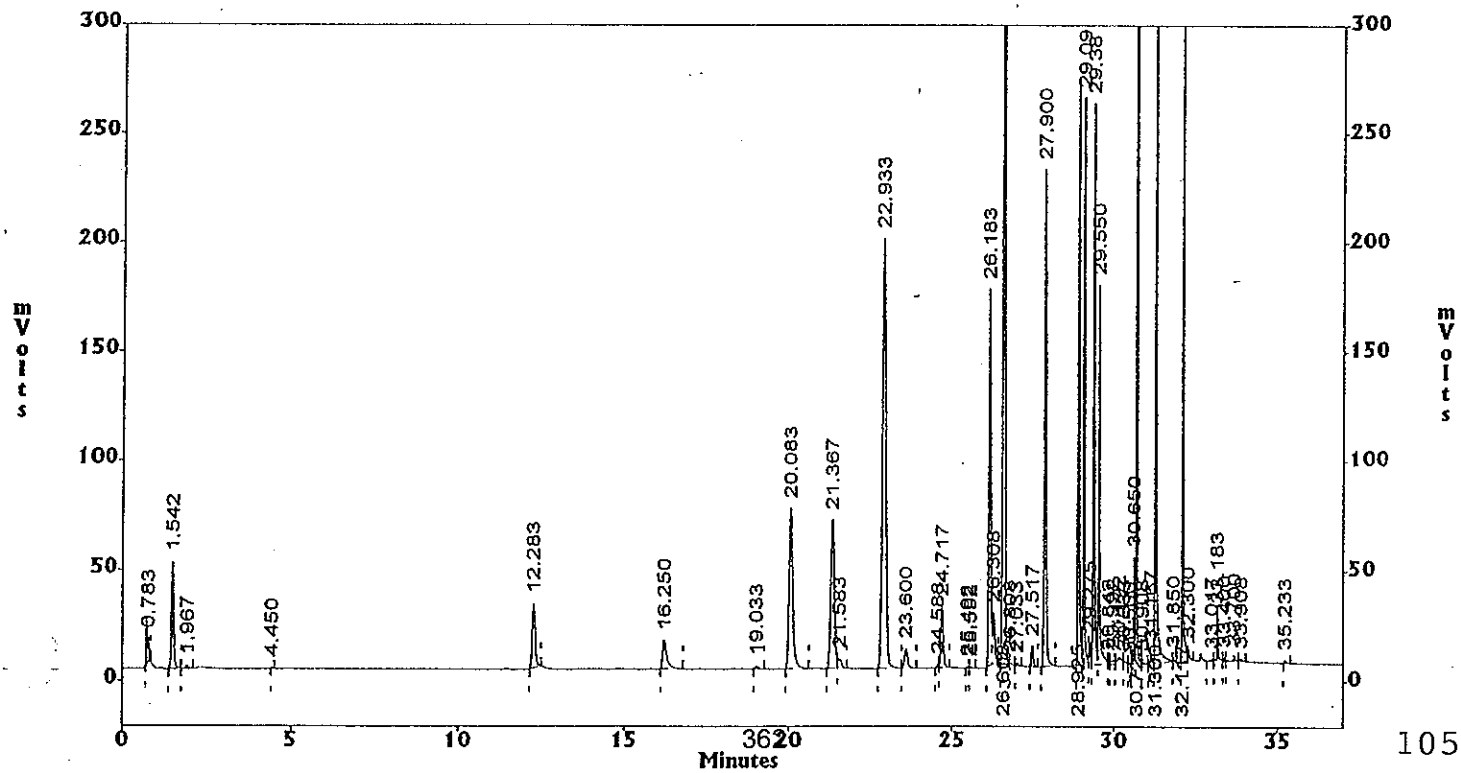
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##03g3116,s GC14184
Acquired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
2	1	Dalapon	1.54	223601	48562	0.159073	250.59
5	2	3,5-Di-Cl-Bz acid	12.28	183584	29171	0.140157	233.51
6	3	4-Nitrophenol	16.25	107834	12857	0.073447	261.74
8	4	DCAA (surr)	20.08	581042	73131	0.085575	1210.45
9	5	Dicamba	21.37	520623	67739	0.377820	245.65
10	6	MCPP (ppm)	21.58	32612	4461	0.224210	25.93
11	7	DBOB (IS)	22.93	1402341	196451	1.000000	250.00
12	8	MCPA (ppm)	23.60	59289	8943	0.438923	24.08
14	9	Dichloroprop	24.72	155810	27985	0.112632	246.62
17	10	2,4-D (m)	26.18	732906	172130	0.105689	1236.25
19	11	Pentachlorphenol	26.61	2276273	550193	1.620643	250.39
23	12	Silvex (m)	27.90	877925	227162	0.623829	250.89
24	13	2,4,5-T (m)	28.92	772896	266474	0.541272	254.56
25	14	Dinoseb	29.09	693676	259393	0.496953	248.84
27	15	Chloramben	29.38	693036	256621	0.484770	254.86
28	16	2,4-DB	29.55	456089	173518	0.064394	1262.67
34	17	Bentazon	30.65	95688	48518	0.068965	247.35
35	18	DCPA	30.73	1115576	570988	0.782016	254.31
38	19	Picloram	31.30	1209292	572608	0.820557	262.73
40	20	Acifluorfen	32.12	1025810	551982	0.718754	254.43

c:\data\2003\0307\8151t\03g3116\3116g.q01 -- Channel B



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3252.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0408\8151t\04g3252\3252g.q01
ID: ##04G3252,s GC16249 -- Aug 20, 2004 18:13:56
Printed: Aug 22, 2004 16:19:16

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	252.406	0.962	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	252.854	1.142	15.000	Passed
3 4-Nitrophenol	250.000	266.437	6.575	15.000	Passed
4 DCAA(Surr)	1200.000	1169.474	2.544	15.000	Passed
5 Dicamba	250.000	249.053	0.379	15.000	Passed
6 MCPP(ppm)	25.000	25.082	0.326	15.000	Passed
7 MCPA(PPm)	25.000	22.900	8.399	15.000	Passed
8 Dichloroprop	250.000	238.749	4.500	15.000	Passed
9 2,4-D (m)	1250.000	1284.696	2.776	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	254.601	1.840	15.000	Passed
12 Silvex (m)	250.000	263.601	5.440	15.000	Passed
13 Chloramben	250.000	244.906	2.037	15.000	Passed
14 2,4,5-T (m)	250.000	266.571	6.628	15.000	Passed
15 Dinoseb	250.000	256.148	2.459	15.000	Passed
16 2,4-DB	1250.000	1325.959	6.077	15.000	Passed
17 Bentazon	250.000	240.377	3.849	15.000	Passed
18 Picloram	250.000	237.578	4.969	15.000	Passed
19 DCPA	250.000	286.486	14.594	15.000	Passed
20 Acifluorfen	250.000	267.835	7.134	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	233.921	6.432	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	265.498	6.199	15.000	Passed
3 4-Nitrophenol	250.000	288.690	15.476	15.000	Failed
4 DCAA (surr)	1200.000	1147.413	4.382	15.000	Passed
5 Dicamba	250.000	238.977	4.409	15.000	Passed
6 MCPP (ppm)	25.000	46.069	84.276	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	31.564	26.257	15.000	Failed
9 Dichloroprop	250.000	245.400	1.840	15.000	Passed
10 2,4-D (m)	1250.000	1149.344	8.052	15.000	Passed
11 Pentachlorphenol	250.000	249.547	0.181	15.000	Passed
12 Silvex (m)	250.000	257.632	3.053	15.000	Passed
13 2,4,5-T (m)	250.000	256.664	2.665	15.000	Passed
14 Dinoseb	250.000	253.219	1.288	15.000	Passed
15 Chloramben	250.000	255.911	2.364	15.000	Passed

16 2,4-DB	1250.000	1321.646	5.732	15.000	Passed
17 Bentazon	250.000	256.199	2.479	15.000	Passed
18 DCPA	250.000	293.718	17.487	15.000	Failed
19 Picloram	250.000	275.211	10.084	15.000	Passed
20 Acifluorfen	250.000	273.669	9.468	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3252.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0408\8151t\04g3252\3252g.q02
ID: ccv GC16249 -- Aug 20, 2004 22:59:35
Printed: Aug 22, 2004 16:21:52

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	244.637	2.145	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	246.518	1.393	15.000	Passed
3 4-Nitrophenol	250.000	266.426	6.571	15.000	Passed
4 DCAA(Surr)	1200.000	1148.984	4.251	15.000	Passed
5 Dicamba	250.000	238.467	4.613	15.000	Passed
6 MCPP(ppm)	25.000	25.450	1.802	15.000	Passed
7 MCPA(PPm)	25.000	21.961	12.157	15.000	Passed
8 Dichloroprop	250.000	233.954	6.418	15.000	Passed
9 2,4-D (m)	1250.000	1261.908	0.953	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	253.416	1.366	15.000	Passed
12 Silvex (m)	250.000	263.308	5.323	15.000	Passed
13 Chloramben	250.000	250.155	0.062	15.000	Passed
14 2,4,5-T (m)	250.000	268.755	7.502	15.000	Passed
15 Dinoseb	250.000	255.346	2.138	15.000	Passed
16 2,4-DB	1250.000	1341.387	7.311	15.000	Passed
17 Bentazon	250.000	242.370	3.052	15.000	Passed
18 Picloram	250.000	244.173	2.331	15.000	Passed
19 DCPA	250.000	284.620	13.848	15.000	Passed
20 Acifluorfen	250.000	265.071	6.028	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	225.366	9.854	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	258.801	3.521	15.000	Passed
3 4-Nitrophenol	250.000	272.258	8.903	15.000	Passed
4 DCAA (surr)	1200.000	1114.446	7.129	15.000	Passed
5 Dicamba	250.000	234.736	6.106	15.000	Passed
6 MCPP (ppm)	25.000	43.520	74.082	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	30.784	23.136	15.000	Failed
9 Dichloroprop	250.000	241.015	3.594	15.000	Passed
10 2,4-D (m)	1250.000	1124.708	10.023	15.000	Passed
11 Pentachlorphenol	250.000	243.118	2.753	15.000	Passed
12 Silvex (m)	250.000	257.494	2.997	15.000	Passed
13 2,4,5-T (m)	250.000	257.528	3.011	15.000	Passed
14 Dinoseb	250.000	247.814	0.874	15.000	Passed
15 Chloramben	250.000	252.878	1.151	15.000	Passed

16	2,4-DB	1250.000	1276.867	2.149	15.000	Passed
17	Bentazon	250.000	251.536	0.615	15.000	Passed
18	DCPA	250.000	289.051	15.620	15.000	Failed
19	Picloram	250.000	273.559	9.423	15.000	Passed
20	Acifluorfen	250.000	269.972	7.989	15.000	Passed

Signature _____

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation Logbook

Batch # 04G3252 Matrix: S Target method: 8151A EXT Method: 8151A Date: 8-20-04

Solvent: Ether Lot # 031271-15; Exchange Solvent: Hexane Lot # C1870; Analyst: KJ

Lot #: Surr.: GC-16435 Conc.: 20.00ppm Na_2SO_4: ST 1232 ☐ Sonicator Tune

Op. #	Sample Type	Sample ID #	Smpl Amnt (mL or g)	Surr. Vol mL	Extract sub-ID	Final Vol. mL	Dilution $F=V/X$	pH	Note & Anomaly
4661	MB	04G3252-1001	50.00	1.00	8151A	10.00	0.20		
4662	LCS	-1001	50.00						
4663	LCSD	-1001	50.00						
4664	Sample-1	04-4118-1	50.00						
4665	MS								
4666	MSD								
4667	Sample-2								
4668	Sample-3								
4669	Sample-4								
4670	Sample-5								
4671	Sample-6								
4672	Sample-7								
4673	Sample-8								
4674	Sample-9								
4675	Sample-10								
4676	Sample-11								
4677	Sample-12								
4678	Sample-13								
4679	Sample-14								
4680	Sample-15								
4681	Sample-16								
4682	Sample-17								
4683	Sample-18								
4684	Sample-19								
4685	Sample-20								
4686	MTX Dup.								
4687	LCS′								
4688	LCSD′								
4689	MS′								
4690	MSD′								

8-20-04

Type	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$
LCS/LCSD	4662	GC-16441	1000 × 2.50 × 1.00 /X = ppb	4663	GC-16441	1000 × 2.50 × 1.00 /X = ppb
MS/MSD		GC-	1000 × × /X = ppb		GC-	1000 × × /X = ppb
LCS′/LCSD′		GC-	1000 × × /X = ppb		GC-	1000 × × /X = ppb
MS′/MSD′		GC-	1000 × × /X = 367 ppb		GC-	1000 × × /X = 1056 ppb

Supervisor Initial

Applied P & Ch Laboratory
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Organic Sample Preparation

Extraction method: **1** 3510–separate funnel; **2** 3520–L-L continue extraction; **3** 3550–Ultrasonic; **4** LUFT–Shaker; **5** 3540–Soxhlet; **6** Solid phase Extraction; **7** Microextraction; **8** SFE; **9** Dilution; **10** Concentration; **11** Other, specify.

Service ID: 04-418 Batch # 0463252 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by KT Date 8/20/04 Surro Lot GC-16435 Conc. 20.0 pp
LCS Lot GC-16441 Conc. 2.5 pp MS Lot GC-16441 Conc. 2.5 pp
Ext. solv. Ether Lot # 03 1271.15 Exchage solv. Hexane Lot # C-1870

Sample ID	-K01	-J01	-J01	-1				
Sample Matrix	S	→	→	→				
Sample Amount, X (g/mL)	50.00	50.00	50.00	50.00				
Any TCLP, EP, WET, SPLP ?								
Surr. STD used, mL	1.00	→	→	→				
Spike STD used, mL								
[Extracted at pH]	2<1>12	→	→	→	/	/	/	/
Solvent amount, mL	3×60	×	×	×	×	×	×	×
Final volume, V_t, mL	10.00	→	→	→				
Extraction DF $f_e = V/X$	0.20	→	→	→				
Sub-ID of extracts	8151A	→	→	→				
Anomaly Footnote† :								

Sample Cleanup

Op. by ____ Date / / (For details, see Cleanup worksheet)

Cleanup method:								
Cleanup DF, f_c								
Preparation DF, $f_1 = f_e\ f_c$								

Pre-injection*:

Op. by KT Date 8/20/04 IS Lot : GC-1637 Conc. 25 pp m

2nd dilution, f_2 (1)	1	→	→	→				
V_t, μL (40)								
Single Extract GC, GC/MS Analysis:								
$V_2 = V_t/f_2$, μL (40/f_2)								
$V_{solvent} = V_t - V_2$, μL								
Double Extract GC, GC/MS Analysis:								
$V_> = \frac{1}{2}V_t/f_2$, μL (20/f_2)								
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL ($\frac{20}{f_2}\frac{f_<}{f_>}$)								
$V_{solvent} = V_t - V_> - V_<$								
IS volume, μL (10)	10	→	→	→				
Final Conc. of IS (40 ppm)								
Total $F = 2\ f_1\ f_>$ or $f_1\ f_2$	0.20	→	→	→				

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

APCL form 7-122 (old 5-110), Ver. 3.0 April 5, 1996. No pencil. Use blue pen for record. Use red pen for correction.
File: {CUST.DOC.GC}EXTRACTION.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Analysis Anomaly Record

Batch #: 0463252 Method: 8151A Matrix: S Date: 8/20/04

Samples Involved: 04-8118

- **Anomaly for MS/MSD/MD**
  - ☐ 1. MS/MSD out of control limit, sample matrix interference suspected
  - ☐ 2. MS or MSD out of control limit, but $\overline{MS}$ is O.K.
  - ☐ 3. One of MS/MSD, and $\overline{MS}$ out of control limit, but not enough sample for re-analysis
  - ☒ 4. Not enough sample for MS/MSD, LCS/LCSD may be used
  - ☐ 5. Spiked samples contain high concentration of analytes (>4 × spiked concentration)
  - ☐ 6. MS/MSD out of control limit, but post spike is O.K.
  - ☐ 7. MS/MSD out of control limit, due to the heterogenous matrix
  - ☐ 8. MS/MSD out of control limit, due to the very special matrix
  - ☐ 9. Not enough sample for matrix duplicate (MD)
- **Anomaly for Holding time (HT)**
  - ☐ 10. HT has been exceeded when received, authorized by the Client to carry on with the analyses
  - ☐ 11. Extraction HT was passed, authorized by the Client to carry on with the analyses
  - ☐ 12. Analysis HT was passed, authorized by the Client to carry on with the analyses
- **Surrogates Anomaly**
  - ☐ 13. Surrogate recovery out of control limit (see Level-1 Part III), sample matrix interference suspected
  - ☐ 14. Surrogate recovery out of control limit (see Level-1 Part III), but not enough sample for re-analysis
  - ☐ 15. Surrogate recovery out of control limit, due to very special matrix
  - ☐ 16. Surrogate diluted out (for highly contaminated samples)
  - ☐ 17. Lower surrogate recovery due to cleanup process
- **Chromatogram Pattern Anomaly**
  - ☐ 18. Not a typical gasoline chromatogram pattern
  - ☐ 19. Not a typical diesel chromatogram pattern
  - ☐ 20. Not a typical diesel chromatogram pattern, but similar to heavy-oil or motor oil
  - ☐ 21. Not a typical kerosene chromatogram pattern
  - ☐ 22. Not a typical jet fuel chromatogram pattern
  - ☐ 23. Not a complete PCB chromatogram pattern, interference/degration suspected
- **Other anomaly**

Problem Description: _____

Reason: _____

Analyst: CG Date: 8/20/04

Note: _____

Applied P & Ch Laboratory
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Semi-VOC Analysis Logbook

Sequence # 0463252 Starting Date: 8/20/04 Time 18:13 Analyst: RB

Seq. type: ☐ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path: c:\data\2004\0408\8x5rc\048252

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
4297	0463252	S	CCV	3252g801	8151-063.to0		1		3252g801	✓	GC16249
4298			Mb	1c01			0.2		k01		
4299			Lcs	L01					L01		
4300			Lcsd	J01					J01		
4301				~~4063c-1~~ 4118-1	RB 8/24/04				RB 8/24/04 ~~4063.001~~ 4118.001		
4302			CCV	3252g802			1		3252g802		GC16249
4303											
4304											
4305											
4306											
4307											
4308											
4309											
4310											
4311											
4312											
4313											
4314											
4315											
4316											
4317											
4318											
4319											
4320											
4321											
4322											
4323											
4324											
4325											
4326											

RB 8/24/04

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

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Semi-VOC Analysis Logbook

Sequence # 0363116 Starting Date: 7/8/03 Time 13:43 Analyst: RCB

Seq. type: ☑ Cal. ☑ Int. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path C:\data\2003\0307\8151\0363116

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
3369			Ical	50 ppb	8151-063.t00		1		8151-063.050	✓	GC15411
3370				100					100		GC15412
3371				250					250		GC15413
3372				400					400		GC15414
3373				500					500		GC15415
3374	0363116	S	ICV/CCV	3116g.801					3116g.801		GC14184
3375			mb	k01			0.2		k01		
3376				3888-1					3888.001		
3377				-2					002		
3378				-4					004		
3379				-5					005		
3380				-6					006		
3381			CCV	3116g.802			1		3116g.802		GC15413
3382				3888-8			0.2		3888.008		
				-9					009		
3384				-10					010		
3385				-11					011		
3386				-12					012		
3387				-13					013		
3388				-3					003		
3389			CCV	3116g.803			1		3116g.803		GC15413
3390				3888-7			0.2		3888.007		
3391			Lcsd	3116g.J01					3116g.J01		
3392			Lcs	L01					L01		
3393	0363264	S	mb	3264g.k01			0.2		3264g.k01		
3394			Lcs	L01					L01		
3395			Lcsd	J01					J01		
3396				4049-1					4049.001		
3397				-2					002		
3398			CCV	3116g.804			1		3116g.804		GC15413

Footnote/Anomaly: END RCB 7/9/03

*Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.
Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

Level C Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

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Wet Analysis Results for Method ASTM-D2216

Client Name:	Curtis & Tompkins	Project No:	174074	Anal. Method	ASTM-D2216
Project ID:	Presidio-Baker Beach 3	Service ID:	44118	Collected by:	

Component Name: Moisture
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
04-4118-1	BB3EX116[0.5]	Soil	08/18/04	08/19/04	08/19/04	04W3666	%Moisture	0.5	14.7	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 04-4118

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	04W3666	8/19/04	04-4134-01	%moisture	5.22	5.94	13	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

ied P & Ch Laboratory
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#: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 04W3665 SOP: G-86
Date 8/19/04 Analyst WW

Batch # 04W3666 SOP: G-86
Date 8/19/04 Analyst WW & GH

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times100\%$		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times100\%$
Smpl-1 DQ	4108-2	21.88	34.47	33.63	6.67	Smpl-1 BR	4118-1	20.84	35.02	32.93	14.74
Smpl-2 FG	-3	23.40	42.12	41.31	4.33	Smpl-2 KT	4121-1	22.38	39.91	37.80	12.04
Smpl-3 HO	-4	22.95	41.11	40.78	1.82	Smpl-3 DG	-2	23.02	42.63	40.79	9.38
Smpl-4 HU	-5	23.20	35.22	33.90	10.98	Smpl-4 HW	4134-1	22.77	45.61	43.85	5.22
Smpl-5 SS	-6	24.17	52.60	51.44	4.08	Smpl-5 AC	-2	23.41	42.76	41.72	5.38
Smpl-6 WX	-7	20.71	45.05	44.72	1.36	Smpl-6 RJ	-3	21.23	41.40	40.43	4.81
Smpl-7 MO	4110-2	22.38	47.96	47.24	2.82	Smpl-7 JJ	4129-2	22.73	48.61	43.31	20.48
Smpl-8 GH	-3	21.20	44.67	44.16	2.17	Smpl-8 YY	-3	22.64	40.88	39.56	7.24
Smpl-9 MC	-4	22.36	45.48	45.35	0.56	Smpl-9 BA	-4	22.64	40.62	38.78	10.23
Smpl-10 KE	-5	23.89	40.89	38.47	14.24	Smpl-10 UK	-5	21.24	38.44	36.69	10.17
Smpl-11 BD	-6	21.79	35.99	34.92	7.54	Smpl-11 OF	-6	22.59	38.85	37.55	8.00
Smpl-12 QI	-7	21.00	34.11	31.97	16.32	Smpl-12 RO	-7	21.18	38.93	37.00	10.87
Smpl-13 BE	4120-1	22.26	36.84	35.93	6.24	Smpl-13 BO	-8	22.26	38.66	37.10	9.51
Smpl-14 TT	-2	20.68	35.38	34.47	6.19	Smpl-14 JS	-9	23.44	50.03	45.88	15.61
Smpl-15 NO	-3	22.81	38.40	37.31	6.99	Smpl-15 LA	-10	22.39	44.44	41.12	15.06
Smpl-16 WI	-4	21.87	36.23	34.72	10.52	Smpl-16 AI	-11	22.57	47.80	45.57	8.84
Smpl-17 XE	-5	22.58	36.12	34.79	9.82	Smpl-17 JW	-12	23.59	50.81	46.46	15.98
Smpl-18 JE	-6	21.27	35.23	34.61	4.44	Smpl-18 PP	-13	22.63	45.49	42.32	13.87
Smpl-19 NM	-7	22.53	35.89	34.99	6.74	Smpl-19 LB	4130-2	22.77	45.72	45.00	3.14
Smpl-20 HW	-8	22.36	37.61	36.46	7.54	Smpl-20 BX	-3	23.65	46.52	45.82	3.06
MD RE	-8	23.13	41.90	40.39	8.05	MD FJ	4134-1	22.38	45.26	43.90	5.94

Footnote/Anomaly:

APCL form 5-163 Ver. 1.1 Apr. 22, 1996 No pencil. Use blue pen for record. Use red pen for correction.
File: [CUST.DOC.WET]MOIS.TEX Root-File: MOIS_ROOT.TEX 1-Page-File: MOIS1.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Balance Daily Calibration Worksheet

1065

Weight Set S/N: 12006

Calib. Date	Lab Balance Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
8/16/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.00	✓ ✓ ✓	C-01	1.0000	10.0001	200.0002	✓ ✓ ✓	
	A-02					B-3	0.99	10.00	200.00	✓ ✓ ✓	C-02	0.9999	9.9999	200.0000	✓ ✓ ✓	
	A-03					B-6	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-7	1.00	10.02	200.00	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		8/16/04					8/16/04					8/16/04				
8/17/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.00	✓ ✓ ✓	C-01	1.0000	10.0001	200.0002	✓ ✓ ✓	
	A-02					B-03	0.99	10.00	200.01	✓ ✓ ✓	C-02	0.9999	9.9999	199.9999	✓ ✓ ✓	
	A-03					B-06	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-07	1.00	10.02	200.00	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		8/17/04					8/17/04					8/17/04				
8/18/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.00	✓ ✓ ✓	C-01	1.0000	10.0001	200.0002	✓ ✓ ✓	
	A-02					B-03	0.99	10.00	200.01	✓ ✓ ✓	C-02	0.9999	9.9999	199.9998	✓ ✓ ✓	
	A-03					B-06	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-07	1.00	10.00	200.00	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		8/18/04					8/18/04					8/18/04				
8/19/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0001	200.0002	✓ ✓ ✓	
	A-02					B-03	0.99	10.00	200.00	✓ ✓ ✓	C-02	0.9999	9.9999	200.0000	✓ ✓ ✓	
	A-03					B-06	1.00	9.99	199.99	✓ ✓ ✓	C-					
	A-04					B-07	1.00	9.98	199.97	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		8/19/04					8/19/04					8/19/04				

376

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 93922
Date: 08/20/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174073-001	15.2225	22.4167	22.1743	97	3
174073-002	15.6100	22.4147	22.3093	98	2
174073-003	15.5518	22.3925	22.3364	99	1
174073-004	15.0072	22.5372	22.2501	96	4
174073-005	15.2236	22.6771	22.2874	95	5
174074-001	15.3721	22.8959	21.9705	88	12
174082-001	15.4401	22.8061	21.2271	79	21
174083-001	15.3036	22.6261	21.5861	86	14
174100-001	15.2081	22.3009	21.5402	89	11
174100-002	15.6565	22.4452	21.0835	80	20
174100-003	15.5434	22.1034	20.9957	83	17
174100-004	15.4944	22.4070	21.5272	87	13
174100-005	15.4507	22.7119	21.8969	89	11
174100-006	15.6739	22.4354	21.5366	87	13
174100-007	15.4388	22.7535	21.9792	89	11
QC261912	15.3914	22.5597	22.3312	97	3
of 174073-001			RPD:	0.2%	5.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 93922
Date Started: 20-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
174073-001		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-002		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-003		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-004		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174073-005		Treadwell & Rollo	Soil	MOISTURE	20-AUG-2004
174074-001		Treadwell & Rollo	Soil	MOISTURE	25-AUG-2004
174082-001		Tan Phung Associat	Soil	MOISTURE	23-AUG-2004
174083-001		Tan Phung Associat	Soil	MOISTURE	23-AUG-2004
174100-001		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-002		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-003		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-004		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-005		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-006		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
174100-007		CH2M Hill Construc	Soil	MOISTURE	26-AUG-2004
QC261912	SDUP of 174073-001		Soil	MOISTURE	

PROJECT MOISTURE

Notebook No. 1942
Continued From Page Ø

8/19/04

93922

Sample		B.L. Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	000	15.3688	—	15.3691	
174073-	1	F	15.2225	22.4167	22.1743	
DUP	1	6	15.3914	22.5597	22.3312	
	2	11	15.6100	22.4147	22.3093	
	3	4	15.5518	22.3925	22.3364	
	4	T	15.0072	22.5372	22.2501	
	5	80	15.2236	22.6771	22.2874	
174082-	1	39	15.4401	22.8061	21.2271	
174083-	1	146	15.3036	22.6261	21.3461	
174074-	1	44	15.3721	22.8959	21.9705	
174100-	1	71	15.2081	22.3009	21.5402	
	2	1976	15.6565	22.4452	21.0835	
	3	M2	15.5434	22.1034	20.9957	
	4	77	15.4444	22.4070	21.5272	
	5	21	15.4507	22.7119	21.8969	
	6	G	15.6739	22.4354	21.5366	
	7	32	15.4386	22.7535	21.9792	

OVEN TEMP: 105°C
TIME IN: 4:20 P.M.
TIME OUT: 8:30 A.M. ON: 8/20/04

Continued on Page

Read and Understood By

D. Marquez 8/19/04 — Signed, Date

8/20/04 — Signed, Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 174320
Metals

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX117[0.5]	174320-001
BB3EX118[0.5]	174320-002
BB3EX120[0.5]	174320-004
DUP083004A	174320-005
BB3EX121[0.5]	174320-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/10/04
Operations Manager

Signature: _____ Date: 9/9/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
METALS (EPA 6010B)

Laboratory number:	174320
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	08/30/04
Samples Received:	08/30/04

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 08/30/04. The samples were received cold and intact.

Metals (EPA 6010B):

Low recoveries were observed for chromium, antimony, and vanadium in the MS/MSD of BB3EX118[0.5] (lab # 174320-002); the BS/BSD were within limits.

Low recoveries were observed for antimony in the MS/MSD of BB3EX121[0.5] (lab # 174320-006); the BS/BSD were within limits, and this analyte was not detected in the associated samples.

No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

174320

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrid Rainis
Samplers: Mike Cinbourne
Recorder (Signature Required): [signature] (MRC)

Turnaround Time: 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Pesticides	PCBs	Metals	SVOCs	Silica gel clean-up	Hold	Remarks
1 BB3EX117[0.5]	8/30/04	1148		X						X				X				sand
2 BB3EX118[0.5]		1154		X						X		X	X	X				MS\MSD; culmer
3 BB3EX119[0.5]		1200		X						X					X			sand
4 BB3EX120[0.5]		1205		X						X		X	X	X				sand
5 DUP083004A		1205		X						X		X	X	X				sand
6 BB3EX121[0.5]	8/30/04	1210		X						X		X	X	X				MS\MSD; sand

Sample Group Sent to Lab "B" 3 TH
LEVI DAFA
Pack Kate

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/30/04	1507	Tony Lopez	8/30/04	1507
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002239

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174320 Date Received: 8/30/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

Results & QC Summary

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX117[0.5]	Batch#:	94198
Lab ID:	174320-001	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
Antimony	ND	2.7	0.18
Arsenic	3.1	0.22	0.088
Barium	9.7	0.44	0.012
Beryllium	0.21	0.089	0.0056
Cadmium	ND	0.22	0.025
Chromium	54	0.44	0.029
Cobalt	5.3	0.89	0.068
Copper	2.8	0.44	0.051
Lead	1.6	0.13	0.058
Molybdenum	ND	0.89	0.056
Nickel	20	0.89	0.060
Selenium	ND	0.22	0.15
Silver	ND	0.22	0.087
Thallium	ND	0.22	0.19
Vanadium	56	0.44	0.039
Zinc	16	0.89	0.15

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX118[0.5]	Batch#:	94198
Lab ID:	174320-002	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 20%

Analyte	Result	RL	MDL
Antimony	ND	2.9	0.20
Arsenic	3.0	0.24	0.096
Barium	110	0.48	0.013
Beryllium	0.55	0.097	0.0061
Cadmium	ND	0.24	0.028
Chromium	160	0.48	0.033
Cobalt	11	0.97	0.074
Copper	20	0.48	0.055
Lead	5.2	0.15	0.063
Molybdenum	ND	0.97	0.060
Nickel	180	0.97	0.065
Selenium	ND	0.24	0.18
Silver	ND	0.24	0.095
Thallium	ND	0.24	0.20
Vanadium	63	0.48	0.044
Zinc	42	0.97	0.16

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX120[0.5]	Batch#:	94198
Lab ID:	174320-004	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL	MDL
Antimony	ND	2.6	0.17
Arsenic	2.7	0.22	0.087
Barium	14	0.44	0.012
Beryllium	0.21	0.087	0.0055
Cadmium	ND	0.22	0.024
Chromium	47	0.44	0.029
Cobalt	5.2	0.87	0.066
Copper	4.3	0.44	0.050
Lead	20	0.13	0.056
Molybdenum	ND	0.87	0.054
Nickel	22	0.87	0.058
Selenium	ND	0.22	0.15
Silver	ND	0.22	0.086
Thallium	ND	0.22	0.18
Vanadium	45	0.44	0.039
Zinc	71	0.87	0.15

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	DUP083004A	Batch#:	94198
Lab ID:	174320-005	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL	MDL
Antimony	ND	3.1	0.21
Arsenic	2.8	0.26	0.10
Barium	18	0.51	0.013
Beryllium	0.22	0.10	0.0064
Cadmium	ND	0.26	0.029
Chromium	51	0.51	0.034
Cobalt	5.5	1.0	0.078
Copper	4.3	0.51	0.059
Lead	8.9	0.15	0.066
Molybdenum	ND	1.0	0.064
Nickel	24	1.0	0.068
Selenium	ND	0.26	0.18
Silver	ND	0.26	0.10
Thallium	ND	0.26	0.22
Vanadium	49	0.51	0.045
Zinc	30	1.0	0.18

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX121[0.5]	Batch#:	94198
Lab ID:	174320-006	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	3.0	0.25	0.099
Barium	13	0.50	0.013
Beryllium	0.17	0.099	0.0062
Cadmium	ND	0.25	0.027
Chromium	27	0.50	0.033
Cobalt	3.5	0.99	0.076
Copper	2.6	0.50	0.057
Lead	1.5	0.15	0.064
Molybdenum	ND	0.99	0.062
Nickel	18	0.99	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	26	0.50	0.044
Zinc	12	0.99	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC263064	Batch#:	94198
Matrix:	Soil	Prepared:	08/30/04
Units:	mg/Kg	Analyzed:	08/31/04
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	ND	0.25	0.10
Barium	ND	0.50	0.013
Beryllium	ND	0.10	0.0063
Cadmium	ND	0.25	0.028
Chromium	ND	0.50	0.033
Cobalt	ND	1.0	0.076
Copper	ND	0.50	0.057
Lead	ND	0.15	0.065
Molybdenum	ND	1.0	0.062
Nickel	ND	1.0	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	ND	0.50	0.045
Zinc	ND	1.0	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	94198
Units:	mg/Kg	Prepared:	08/30/04
Basis:	as received	Analyzed:	08/31/04
Diln Fac:	1.000		

Type: BS Lab ID: QC263065

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.5	102	75-125
Arsenic	50.00	51.00	102	75-125
Barium	100.0	99.00	99	75-125
Beryllium	2.500	2.480	99	75-125
Cadmium	10.00	9.900	99	75-125
Chromium	100.0	96.50	97	75-125
Cobalt	25.00	23.95	96	75-125
Copper	12.50	12.45	100	75-125
Lead	100.0	98.00	98	75-125
Molybdenum	20.00	18.65	93	75-125
Nickel	25.00	24.40	98	75-125
Selenium	50.00	46.55	93	75-125
Silver	10.00	9.950	100	75-125
Thallium	50.00	49.25	99	75-125
Vanadium	25.00	24.40	98	75-125
Zinc	25.00	24.10	96	75-125

Type: BSD Lab ID: QC263066

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	103.0	103	75-125	1	30
Arsenic	50.00	52.00	104	75-125	2	30
Barium	100.0	100.0	100	75-125	1	30
Beryllium	2.500	2.505	100	75-125	1	30
Cadmium	10.00	10.05	101	75-125	2	30
Chromium	100.0	97.50	98	75-125	1	30
Cobalt	25.00	24.25	97	75-125	1	30
Copper	12.50	12.55	100	75-125	1	30
Lead	100.0	99.00	99	75-125	1	30
Molybdenum	20.00	19.90	100	75-125	6	30
Nickel	25.00	24.70	99	75-125	1	30
Selenium	50.00	50.50	101	75-125	8	30
Silver	10.00	10.05	101	75-125	1	30
Thallium	50.00	49.85	100	75-125	1	30
Vanadium	25.00	24.70	99	75-125	1	30
Zinc	25.00	24.30	97	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX118[0.5]	Batch#:	94198
MSS Lab ID:	174320-002	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Type: MS Moisture: 20%
Lab ID: QC263067

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.642	87.41	49.39	55 *	75-125
Arsenic	3.009	43.71	40.60	86	75-125
Barium	109.0	87.41	175.3	76	75-125
Beryllium	0.5475	2.185	2.404	85	75-125
Cadmium	<0.02750	8.741	7.255	83	75-125
Chromium	160.9	87.41	225.5	74 *	75-125
Cobalt	10.61	21.85	27.67	78	75-125
Copper	20.35	10.93	29.76	86	75-125
Lead	5.233	87.41	78.23	84	75-125
Molybdenum	0.4399	17.48	13.81	76	75-125
Nickel	183.6	21.85	193.6	46 NM	75-125
Selenium	<0.1750	43.71	33.74	77	75-125
Silver	<0.09500	8.741	7.649	88	75-125
Thallium	<0.2000	43.71	37.37	86	75-125
Vanadium	63.47	21.85	79.55	74 *	75-125
Zinc	41.76	21.85	58.57	77	75-125

Type: MSD Moisture: 20%
Lab ID: QC263068

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	96.90	56.20	56 *	75-125	3	30
Arsenic	48.45	46.80	90	75-125	5	30
Barium	96.90	195.3	89	75-125	6	30
Beryllium	2.422	2.694	89	75-125	3	30
Cadmium	9.690	8.333	86	75-125	4	30
Chromium	96.90	242.2	84	75-125	3	30
Cobalt	24.22	31.73	87	75-125	7	30
Copper	12.11	31.44	92	75-125	2	30
Lead	96.90	88.18	86	75-125	2	30
Molybdenum	19.38	16.52	83	75-125	8	30
Nickel	24.22	203.5	82 NM	75-125	4	30
Selenium	48.45	41.52	86	75-125	10	30
Silver	9.690	8.721	90	75-125	3	30
Thallium	48.45	42.34	87	75-125	2	30
Vanadium	24.22	83.33	82	75-125	2	30
Zinc	24.22	62.50	86	75-125	3	30

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX121[0.5]	Batch#:	94198
MSS Lab ID:	174320-006	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Type: MS Moisture: 1%
Lab ID: QC263070

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.6635	97.13	58.28	59 *	75-125
Arsenic	2.961	48.56	50.02	97	75-125
Barium	13.47	97.13	106.4	96	75-125
Beryllium	0.1659	2.428	2.462	95	75-125
Cadmium	<0.02727	9.713	9.081	94	75-125
Chromium	26.54	97.13	117.5	94	75-125
Cobalt	3.471	24.28	25.79	92	75-125
Copper	2.590	12.14	14.71	100	75-125
Lead	1.480	97.13	91.78	93	75-125
Molybdenum	0.4689	19.43	17.34	87	75-125
Nickel	18.37	24.28	41.38	95	75-125
Selenium	<0.1717	48.56	43.80	90	75-125
Silver	<0.09798	9.713	8.887	92	75-125
Thallium	<0.2121	48.56	45.94	95	75-125
Vanadium	26.34	24.28	50.99	102	75-125
Zinc	12.23	24.28	34.87	93	75-125

Type: MSD Moisture: 1%
Lab ID: QC263071

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	101.0	63.13	62 *	75-125	4	30
Arsenic	50.51	53.54	100	75-125	3	30
Barium	101.0	112.6	98	75-125	2	30
Beryllium	2.525	2.616	97	75-125	2	30
Cadmium	10.10	9.747	97	75-125	3	30
Chromium	101.0	125.3	98	75-125	3	30
Cobalt	25.25	27.53	95	75-125	3	30
Copper	12.63	15.40	101	75-125	1	30
Lead	101.0	98.48	96	75-125	3	30
Molybdenum	20.20	19.09	92	75-125	6	30
Nickel	25.25	44.04	102	75-125	4	30
Selenium	50.51	49.44	98	75-125	8	30
Silver	10.10	9.545	95	75-125	3	30
Thallium	50.51	49.29	98	75-125	3	30
Vanadium	25.25	51.52	100	75-125	1	30
Zinc	25.25	36.82	97	75-125	3	30

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74351792103	Seqnum	: 74351792121
Filename	: tr246786	Filename	: tr246804
IDF	: 1.0	IDF	: 1.0
PDF	: 38.76	PDF	: 38.76
Run type	: MSS	Run type	: PDS
Samplenum	: 174320-002	Samplenum	: QC263184
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94198	Batchnum	: 94198
Inj	: 31-AUG-2004 16:23	Inj	: 31-AUG-2004 17:45
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	33.90	2000	1830	90	16-120	u
Arsenic	62.10	1000	1010	95	62-120	u
Barium	2250	2000	4110	93	51-137	u
Beryllium	11.30	50	55.20	88	70-120	u
Cadmium	ND	200	171.0	86	61-120	u
Calcium	59100	20000	72190	65	40-149	
Chromium	3320	2000	4900	79	60-120	u
Cobalt	219.0	500	632.0	83	56-120	u
Copper	420.0	250	639.0	88	47-144	u
Iron	*** usable MSS data not found ***					
Lead	108.0	2000	1840	87	47-126	u
Magnesium	*** usable MSS data not found ***					
Manganese	3030	500	3320	58	62-131	:
Molybdenum	9.080	400	355.0	86	57-120	u
Nickel	3790	500	4110	64	41-138	: u
Selenium	ND	1000	927.0	93	35-122	u
Silver	ND	200	181.0	91	71-120	u
Thallium	ND	1000	887.0	89	53-120	u
Vanadium	1310	500	1690	76	48-136	u
Zinc	862.0	500	1280	84	38-144	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74351792122
Filename : tr246805
IDF : 1.0
PDF : 49.02
Run type : PDS
Samplenum: QC263182
Matrix : Soil
Batchnum : 94198
Inj : 31-AUG-2004 17:48
Units : ug/L

MSS : 174320-006

Analyte	MSS Seqnum	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	74351792110	13.40	2000	1910	95	16-120	u
Arsenic	74351792110	59.80	1000	1090	103	62-120	u
Barium	74351792110	272.0	2000	2220	97	51-137	u
Beryllium	74351792110	3.350	50	51.20	96	70-120	u
Cadmium	74351792110	ND	200	192.0	96	61-120	u
Calcium	74351792110	51280	20000	66600	77	40-149	
Chromium	74351792110	536.0	2000	2380	92	60-120	u
Cobalt	74351792110	70.10	500	531.0	92	56-120	u
Copper	74351792110	52.30	250	298.0	98	47-144	u
Iron	*** usable MSS data not found ***						
Lead	74351792110	29.90	2000	1940	96	47-126	u
Magnesium	74351792110	35460	20000	53530	90	44-152	
Manganese	74351792110	1940	500	2310	74	62-131	
Molybdenum	74351792110	9.470	400	388.0	95	57-120	u
Nickel	74351792110	371.0	500	831.0	92	41-138	u
Selenium	74351792111	ND	1000	1040	104	35-122	u
Silver	74351792110	ND	200	192.0	96	71-120	u
Thallium	74351792110	ND	1000	979.0	98	53-120	u
Vanadium	74351792110	532.0	500	985.0	91	48-136	u
Zinc	74351792110	247.0	500	714.0	93	38-144	u
Titanium	*** usable MSS data not found ***						

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07
Seqnum : 74351792112
Filename : tr246795
IDF : 5.0
PDF : 49.02
Run type : SER
Samplenum: QC263183
Matrix : Soil
Batchnum : 94198
Inj : 31-AUG-2004 17:04
Units : mg/Kg

MSS : 174320-006

Analyte	MSS Seqnum	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	74351792110	ND	2.94	ND	14.7	--	10	u
Arsenic	74351792110	2.93	0.245	2.20	1.23	--	10	u
Barium	74351792110	13.3	0.490	12.9	2.45	3	10	u
Beryllium	74351792110	0.164	0.0980	ND	0.490	--	10	u
Cadmium	74351792110	ND	0.245	ND	1.23	--	10	u
Calcium	74351792110	2510	24.5	2480	123	1	10	
Chromium	74351792110	26.3	0.490	25.7	2.45	2	10	u
Cobalt	74351792110	3.44	0.980	ND	4.90	--	10	u
Copper	74351792110	2.56	0.490	ND	2.45	--	10	u
Iron	*** usable MSS data not found ***							
Lead	74351792110	1.47	0.147	1.38	0.735	--	10	u
Magnesium	74351792110	1740	24.5	1700	123	2	10	
Manganese	74351792110	95.1	0.490	92.6	2.45	3	10	
Molybdenum	74351792110	ND	0.980	ND	4.90	--	10	u
Nickel	74351792110	18.2	0.980	18.0	4.90	1	10	u
Selenium	74351792111	ND	0.245	ND	1.23	--	10	u
Silver	74351792110	ND	0.245	ND	1.23	--	10	u
Thallium	74351792110	ND	0.245	ND	1.23	--	10	u
Vanadium	74351792110	26.1	0.490	25.2	2.45	3	10	u
Zinc	74351792110	12.1	0.980	12.1	4.90	0	10	u
Titanium	*** usable MSS data not found ***							

u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74351792103	Seqnum	: 74351792106
Filename	: tr246786	Filename	: tr246789
IDF	: 1.0	IDF	: 5.0
PDF	: 38.76	PDF	: 38.76
Run type	: MSS	Run type	: SER
Samplenum	: 174320-002	Samplenum	: QC263069
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94198	Batchnum	: 94198
Inj	: 31-AUG-2004 16:23	Inj	: 31-AUG-2004 16:40
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.33	ND	11.6	--	10	u
Arsenic	2.41	0.194	1.53	0.969	--	10	r u
Barium	87.2	0.388	82.4	1.94	6	10	u
Beryllium	0.438	0.0775	0.479	0.388	9	10	u
Cadmium	ND	0.194	ND	0.969	--	10	u
Calcium	2290	19.4	2300	96.9	1	10	
Chromium	129	0.388	129	1.94	0	10	u
Cobalt	8.49	0.775	8.57	3.88	1	10	u
Copper	16.3	0.388	14.9	1.94	8	10	u
Iron	*** usable MSS data not found ***						
Lead	4.19	0.116	4.44	0.581	6	10	u
Magnesium	*** usable MSS data not found ***						
Manganese	117	0.388	116	1.94	2	10	
Molybdenum	ND	0.775	ND	3.88	--	10	u
Nickel	147	0.775	149	3.88	1	10	u
Selenium	ND	0.194	ND	0.969	--	10	u
Silver	ND	0.194	ND	0.969	--	10	u
Thallium	ND	0.194	ND	0.969	--	10	u
Vanadium	50.8	0.388	49.6	1.94	2	10	u
Zinc	33.4	0.775	33.3	3.88	0	10	u
Titanium	*** usable MSS data not found ***						

r=RSD out u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74351792103	Seqnum	: 74351792107
Filename	: tr246786	Filename	: tr246790
IDF	: 1.0	IDF	: 5.0
PDF	: 38.76	PDF	: 38.76
Run type	: MSS	Run type	: SER
Samplenum	: 174320-002	Samplenum	: QC263069
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94198	Batchnum	: 94198
Inj	: 31-AUG-2004 16:23	Inj	: 31-AUG-2004 16:44
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.33	ND	11.6	--	10	
Arsenic	2.41	0.194	1.34	0.969	--	10	r
Barium	87.2	0.388	82.8	1.94	5	10	
Beryllium	0.438	0.0775	0.479	0.388	9	10	
Cadmium	ND	0.194	ND	0.969	--	10	
Calcium	2290	19.4	2310	96.9	1	10	
Chromium	129	0.388	129	1.94	0	10	
Cobalt	8.49	0.775	8.55	3.88	1	10	
Copper	16.3	0.388	14.9	1.94	8	10	
Iron	*** usable MSS data not found ***						
Lead	4.19	0.116	4.40	0.581	5	10	
Magnesium	*** usable MSS data not found ***						
Manganese	117	0.388	116	1.94	1	10	
Molybdenum	ND	0.775	ND	3.88	--	10	
Nickel	147	0.775	150	3.88	2	10	
Selenium	ND	0.194	ND	0.969	--	10	
Silver	ND	0.194	ND	0.969	--	10	
Thallium	ND	0.194	ND	0.969	--	10	
Vanadium	50.8	0.388	49.6	1.94	2	10	
Zinc	33.4	0.775	33.3	3.88	0	10	
Titanium	*** usable MSS data not found ***						

r=RSD out

Method: 6010B Standard: blank
Run Time: 08/31/04 06:54:11

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.007	.005	-.000	.005	-.181	.006	.001
SDev	.006	.002	.000	.002	.001	.002	.001
%RSD	98.1	33.4	76.0	44.0	.726	40.3	60.4
#1	-.002	.004	-.001	.003	-.182	.004	.001
#2	-.011	.006	-.000	.006	-.180	.008	.002

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.002	.008	-.004	.003	.003	-.005
SDev	.001	.001	.006	.005	.001	.003	.000
%RSD	332.	31.1	79.8	126.	20.1	81.3	8.03
#1	-.001	.002	.004	-.000	.003	.001	-.006
#2	.000	.002	.013	-.007	.004	.005	-.005

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.006	.003	-.003	.001	.021	.0460	-.0054
SDev	.001	.003	.000	.001	.000	.0005	.0001
%RSD	23.2	102.	1.12	91.0	.544	1.022	1.187
#1	.007	.001	-.003	.000	.021	.0463	-.0054
#2	.005	.005	-.003	.002	.021	.0456	-.0053

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0015	.0002	.001	.118
SDev	.0001	.0001	.000	.001
%RSD	5.738	56.95	17.0	.843
#1	-.0014	.0001	.002	.118
#2	-.0015	.0003	.001	.119

Method: 6010B Standard: cst hi
Run Time: 08/31/04 06:57:54

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.28	.769	.278	14.5	2.48	1.06	.206
SDev	.01	.001	.004	.0	.00	.00	.001
%RSD	.436	.162	1.41	.148	.115	.053	.314
#1	1.27	.768	.275	14.5	2.48	1.06	.206
#2	1.28	.770	.280	14.5	2.48	1.06	.207

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.683	.437	.784	.824	1.87	1.69	.307
SDev	.001	.001	.003	.000	.07	.00	.017
%RSD	.150	.142	.393	.033	3.68	.143	5.69
#1	.682	.438	.782	.824	1.82	1.68	.294
#2	.684	.437	.786	.823	1.92	1.69	.319

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.338	.247	.197	.757	.175	.1370	.2483
SDev	.035	.000	.001	.001	.000	.0001	.0005
%RSD	10.5	.159	.415	.062	.043	.0685	.1872
#1	.313	.247	.196	.756	.175	.1371	.2480
#2	.363	.247	.197	.757	.175	.1370	.2486

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1017	.1513	.947	5.98
SDev	.0000	.0003	.001	.00
%RSD	.0026	.1810	.069	.061
#1	.1017	.1511	.947	5.98
#2	.1017	.1515	.948	5.98

Standardization Report 08/31/04 07:01:58 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	775.680	5.05348	08/31/04 06:57:54
Sb206A	206.832	Multiple	Standards	1282.67	-5.94151	08/31/04 06:57:54
As1890	189.042	Multiple	Standards	1800.20	.814421	08/31/04 06:57:54
Ba4934	493.409	Multiple	Standards	69.0319	-.319632	08/31/04 06:57:54
Be3130	313.042	Multiple	Standards	36.3208	6.56925	08/31/04 06:57:54
Cd2265	226.502	Multiple	Standards	94.9812	-.558185	08/31/04 06:57:54
Cr2677	267.716	Multiple	Standards	975.638	-1.33898	08/31/04 06:57:54
Co2286	228.616	Multiple	Standards	733.537	.178808	08/31/04 06:57:54
Cu3247	324.754	Multiple	Standards	459.319	-.905562	08/31/04 06:57:54
Pb2203	220.351	Multiple	Standards	645.206	-5.28470	08/31/04 06:57:54
Pb220A	220.352	Multiple	Standards	599.083	2.31228	08/31/04 06:57:54
Mo2020	202.030	Multiple	Standards	535.718	-1.69009	08/31/04 06:57:54
Ni2316	231.604	Multiple	Standards	297.069	-.908227	08/31/04 06:57:54
Se1960	196.021	Multiple	Standards	1603.00	8.71523	08/31/04 06:57:54
Se196A	196.022	Multiple	Standards	1501.02	-8.53844	08/31/04 06:57:54
Ag3280	328.068	Multiple	Standards	409.837	-1.14152	08/31/04 06:57:54
Tl1908	190.864	Multiple	Standards	2521.78	8.20890	08/31/04 06:57:54
V_2924	292.402	Multiple	Standards	661.970	-.897486	08/31/04 06:57:54
Zn2138	213.856	Multiple	Standards	667.783	-13.8248	08/31/04 06:57:54
Al3082	308.215	Multiple	Standards	11186.4	-514.168	08/31/04 06:57:54
Ca3179	317.933	Multiple	Standards	7883.53	42.3165	08/31/04 06:57:54
Fe2714	271.441	Multiple	Standards	10145.3	14.8686	08/31/04 06:57:54
Mg2790	279.079	Multiple	Standards	13230.0	-2.67927	08/31/04 06:57:54
Mn2576	257.610	Multiple	Standards	105.731	-.145551	08/31/04 06:57:54
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/31/04 06:57:54
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/31/04 06:57:54
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/31/04 06:57:54
Ti3349	334.941	Multiple	Standards	170.635	-20.2025	08/31/04 06:57:54

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792001
Run Name :
Filename : tr246683
Injected : 31-AUG-2004 07:12
Caltype :

Standards: 04WS1530

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1027.000	ug/L	3	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	509.0000	ug/L	2	5	
Barium	1000.000	1020.000	ug/L	2	5	
Beryllium	100.0000	102.0000	ug/L	2	5	
Cadmium	100.0000	102.0000	ug/L	2	5	
Calcium	2000.000	2055.000	ug/L	3	5	
Chromium	200.0000	205.0000	ug/L	3	5	
Cobalt	500.0000	513.0000	ug/L	3	5	
Copper	200.0000	204.0000	ug/L	2	5	
Iron	1000.000	1034.000	ug/L	3	5	
Lead	500.0000	508.0000	ug/L	2	5	
Magnesium	2000.000	2057.000	ug/L	3	5	
Manganese	100.0000	103.0000	ug/L	3	5	
Molybdenum	1000.000	1020.000	ug/L	2	5	
Nickel	500.0000	512.0000	ug/L	2	5	
Selenium	500.0000	501.0000	ug/L	0	5	
Silver	100.0000	102.0000	ug/L	2	5	
Thallium	500.0000	514.0000	ug/L	3	5	
Titanium	1000.000	1020.000	ug/L	2	5	
Vanadium	500.0000	512.0000	ug/L	2	5	
Zinc	100.0000	102.0000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74351792002 Filename : tr246684 Injected : 31-AUG-2004 07:16
Caltype :

Standards: 04WS1577

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	491.5000	ug/L	-2	10	
Antimony	500.0000	496.0000	ug/L	-1	10	
Arsenic	250.0000	245.0000	ug/L	-2	10	
Barium	500.0000	499.0000	ug/L	0	10	
Beryllium	50.00000	49.20000	ug/L	-2	10	
Cadmium	50.00000	48.20000	ug/L	-4	10	
Calcium	1000.000	1019.000	ug/L	2	10	
Chromium	100.0000	98.80000	ug/L	-1	10	
Cobalt	250.0000	240.0000	ug/L	-4	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	545.3000	ug/L	9	10	
Lead	250.0000	244.0000	ug/L	-2	10	
Magnesium	1000.000	996.8000	ug/L	0	10	
Manganese	50.00000	49.30000	ug/L	-1	10	
Molybdenum	500.0000	503.0000	ug/L	1	10	
Nickel	250.0000	243.0000	ug/L	-3	10	
Selenium	250.0000	242.0000	ug/L	-3	10	
Silver	50.00000	49.40000	ug/L	-1	10	
Thallium	250.0000	239.0000	ug/L	-4	10	
Titanium	500.0000	513.0000	ug/L	3	10	
Vanadium	250.0000	245.0000	ug/L	-2	10	
Zinc	50.00000	49.90000	ug/L	0	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74351792004 Filename : tr246686 Injected : 31-AUG-2004 07:36
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	96.95000	ug/L	-3	50	
Antimony	60.00000	58.10000	ug/L	-3	50	
Arsenic	5.000000	6.140000	ug/L	23	50	
Barium	10.00000	9.760000	ug/L	-2	50	
Beryllium	2.000000	2.010000	ug/L	1	50	
Cadmium	5.000000	4.460000	ug/L	-11	50	
Calcium	200.0000	213.2000	ug/L	7	50	
Chromium	10.00000	8.910000	ug/L	-11	50	
Cobalt	20.00000	18.50000	ug/L	-8	50	
Copper	10.00000	10.80000	ug/L	8	50	
Iron	100.0000	116.6000	ug/L	17	50	
Lead	3.000000	2.490000	ug/L	-17	50	
Magnesium	200.0000	195.8000	ug/L	-2	50	
Manganese	10.00000	9.630000	ug/L	-4	50	
Molybdenum	20.00000	19.10000	ug/L	-5	50	
Nickel	20.00000	18.50000	ug/L	-8	50	
Selenium	5.000000	3.840000	ug/L	-23	50	
Silver	5.000000	4.630000	ug/L	-7	50	
Thallium	5.000000	4.270000	ug/L	-15	50	
Vanadium	10.00000	9.730000	ug/L	-3	50	
Zinc	20.00000	17.50000	ug/L	-13	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792013
Run Name :
Filename : tr246695
IDF : 1.0
Injected : 31-AUG-2004 08:33
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	539.6000	ug/L	8	10	
Antimony		500.0000	486.0000	ug/L	-3	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	50.70000	ug/L	1	10	
Cadmium		50.00000	45.40000	ug/L	-9	10	
Calcium		1000.000	1420.000	ug/L	**42**	10	c+ **
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	108.0000	ug/L	8	10	
Iron		500.0000	1146.000	ug/L	**129**	10	c+ **
Lead		250.0000	242.0000	ug/L	-3	10	
Magnesium		1000.000	1014.000	ug/L	1	10	
Manganese		50.00000	62.00000	ug/L	**24**	10	c+ **
Molybdenum		500.0000	499.0000	ug/L	0	10	
Nickel		250.0000	238.0000	ug/L	-5	10	
Selenium		250.0000	262.0000	ug/L	5	10	
Silver		50.00000	51.70000	ug/L	3	10	
Thallium		250.0000	226.0000	ug/L	-10	10	
Titanium		500.0000	529.0000	ug/L	6	10	
Vanadium		250.0000	252.0000	ug/L	1	10	
Zinc		50.00000	50.20000	ug/L	0	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792022
Run Name :
Filename : tr246704
IDF : 1.0
Injected : 31-AUG-2004 09:10
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	814.6000	ug/L	9	10	
Antimony		750.0000	724.0000	ug/L	-3	10	
Arsenic		375.0000	343.0000	ug/L	-9	10	
Barium		750.0000	720.0000	ug/L	-4	10	
Beryllium		75.00000	76.40000	ug/L	2	10	
Cadmium		75.00000	66.70000	ug/L	**-11**	10	c- **
Calcium		1500.000	1667.000	ug/L	**11**	10	c+ **
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	362.0000	ug/L	-3	10	
Copper		150.0000	159.0000	ug/L	6	10	
Iron		750.0000	903.6000	ug/L	**20**	10	c+ **
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1531.000	ug/L	2	10	
Manganese		75.00000	79.60000	ug/L	6	10	
Molybdenum		750.0000	724.0000	ug/L	-3	10	
Nickel		375.0000	352.0000	ug/L	-6	10	
Selenium		375.0000	334.0000	ug/L	**-11**	10	c- **
Silver		75.00000	76.90000	ug/L	3	10	
Thallium		375.0000	332.0000	ug/L	**-11**	10	c- **
Titanium		750.0000	785.0000	ug/L	5	10	
Vanadium		375.0000	376.0000	ug/L	0	10	
Zinc		75.00000	71.70000	ug/L	-4	10	

+=high bias -=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792034

Run Name :
Filename : tr246716

IDF : 1.0
Injected : 31-AUG-2004 10:05
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	608.8000	ug/L	**22**	10	c+ **
Antimony		500.0000	494.0000	ug/L	-1	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	485.0000	ug/L	-3	10	
Beryllium		50.00000	48.80000	ug/L	-2	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	1110.000	ug/L	**11**	10	c+ **
Chromium		100.0000	99.50000	ug/L	-1	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	693.5000	ug/L	**39**	10	c+ **
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	1055.000	ug/L	6	10	
Manganese		50.00000	53.20000	ug/L	6	10	
Molybdenum		500.0000	489.0000	ug/L	-2	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	241.0000	ug/L	-4	10	
Silver		50.00000	48.30000	ug/L	-3	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	51.90000	ug/L	4	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792046
Run Name :
Filename : tr246728
IDF : 1.0
Injected : 31-AUG-2004 11:31
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	489.4000	ug/L	-2	10	
Antimony		500.0000	485.0000	ug/L	-3	10	
Arsenic		250.0000	245.0000	ug/L	-2	10	
Barium		500.0000	471.0000	ug/L	-6	10	
Beryllium		50.00000	46.90000	ug/L	-6	10	
Cadmium		50.00000	47.70000	ug/L	-5	10	
Calcium		1000.000	971.0000	ug/L	-3	10	
Chromium		100.0000	95.90000	ug/L	-4	10	
Cobalt		250.0000	231.0000	ug/L	-8	10	
Copper		100.0000	96.20000	ug/L	-4	10	
Iron		500.0000	567.7000	ug/L	**14**	10	c+ **
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	1080.000	ug/L	8	10	
Manganese		50.00000	46.90000	ug/L	-6	10	
Molybdenum		500.0000	481.0000	ug/L	-4	10	
Nickel		250.0000	238.0000	ug/L	-5	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	46.10000	ug/L	-8	10	
Thallium		250.0000	236.0000	ug/L	-6	10	
Titanium		500.0000	489.0000	ug/L	-2	10	
Vanadium		250.0000	232.0000	ug/L	-7	10	
Zinc		50.00000	49.30000	ug/L	-1	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792058

Run Name :
Filename : tr246740

IDF : 1.0
Injected : 31-AUG-2004 12:24
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	751.7000	ug/L	0	10	
Antimony		750.0000	737.0000	ug/L	-2	10	
Arsenic		375.0000	366.0000	ug/L	-2	10	
Barium		750.0000	726.0000	ug/L	-3	10	
Beryllium		75.00000	71.50000	ug/L	-5	10	
Cadmium		75.00000	73.80000	ug/L	-2	10	
Calcium		1500.000	1396.000	ug/L	-7	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	352.0000	ug/L	-6	10	
Copper		150.0000	144.0000	ug/L	-4	10	
Iron		750.0000	845.8000	ug/L	**13**	10	c+ **
Lead		375.0000	365.0000	ug/L	-3	10	
Magnesium		1500.000	1505.000	ug/L	0	10	
Manganese		75.00000	69.90000	ug/L	-7	10	
Molybdenum		750.0000	709.0000	ug/L	-5	10	
Nickel		375.0000	366.0000	ug/L	-2	10	
Selenium		375.0000	340.0000	ug/L	-9	10	
Silver		75.00000	70.70000	ug/L	-6	10	
Thallium		375.0000	359.0000	ug/L	-4	10	
Titanium		750.0000	751.0000	ug/L	0	10	
Vanadium		375.0000	352.0000	ug/L	-6	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792069
Run Name :
Filename : tr246751
IDF : 1.0
Injected : 31-AUG-2004 13:29
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	687.7000	ug/L	-8	10	
Antimony		750.0000	738.0000	ug/L	-2	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	69.00000	ug/L	-8	10	
Cadmium		75.00000	74.20000	ug/L	-1	10	
Calcium		1500.000	1284.000	ug/L	**-14**	10	c- **
Chromium		150.0000	142.0000	ug/L	-5	10	
Cobalt		375.0000	342.0000	ug/L	-9	10	
Copper		150.0000	140.0000	ug/L	-7	10	
Iron		750.0000	698.3000	ug/L	-7	10	
Lead		375.0000	359.0000	ug/L	-4	10	
Magnesium		1500.000	1408.000	ug/L	-6	10	
Manganese		75.00000	65.20000	ug/L	**-13**	10	c- **
Molybdenum		750.0000	718.0000	ug/L	-4	10	
Nickel		375.0000	363.0000	ug/L	-3	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	68.60000	ug/L	-9	10	
Thallium		375.0000	362.0000	ug/L	-3	10	
Titanium		750.0000	735.0000	ug/L	-2	10	
Vanadium		375.0000	341.0000	ug/L	-9	10	
Zinc		75.00000	72.10000	ug/L	-4	10	

-=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792081
Run Name :
Filename : tr246764
IDF : 1.0
Injected : 31-AUG-2004 14:33
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	522.2000	ug/L	4	10	
Antimony		500.0000	485.0000	ug/L	-3	10	
Arsenic		250.0000	241.0000	ug/L	-4	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	49.80000	ug/L	0	10	
Cadmium		50.00000	49.20000	ug/L	-2	10	
Calcium		1000.000	1022.000	ug/L	2	10	
Chromium		100.0000	99.00000	ug/L	-1	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	550.5000	ug/L	10	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1018.000	ug/L	2	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	482.0000	ug/L	-4	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	232.0000	ug/L	-7	10	
Silver		50.00000	48.70000	ug/L	-3	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	51.10000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792092
Run Name :
Filename : tr246775
IDF : 1.0
Injected : 31-AUG-2004 15:32
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	780.2000	ug/L	4	10	
Antimony		750.0000	774.0000	ug/L	3	10	
Arsenic		375.0000	383.0000	ug/L	2	10	
Barium		750.0000	759.0000	ug/L	1	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	76.70000	ug/L	2	10	
Calcium		1500.000	1503.000	ug/L	0	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	155.0000	ug/L	3	10	
Iron		750.0000	785.0000	ug/L	5	10	
Lead		375.0000	377.0000	ug/L	1	10	
Magnesium		1500.000	1541.000	ug/L	3	10	
Manganese		75.00000	75.00000	ug/L	0	10	
Molybdenum		750.0000	768.0000	ug/L	2	10	
Nickel		375.0000	381.0000	ug/L	2	10	
Selenium		375.0000	368.0000	ug/L	-2	10	
Silver		75.00000	76.00000	ug/L	1	10	
Thallium		375.0000	375.0000	ug/L	0	10	
Titanium		750.0000	788.0000	ug/L	5	10	
Vanadium		375.0000	377.0000	ug/L	1	10	
Zinc		75.00000	76.20000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792104

Run Name :
Filename : tr246787

IDF : 1.0
Injected : 31-AUG-2004 16:32
Caltype :

Standards: 04WS1318

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	330.2000	ug/L	**32**	10	c+ **
Antimony		250.0000	255.0000	ug/L	2	10	
Arsenic		125.0000	125.0000	ug/L	0	10	
Barium		250.0000	244.0000	ug/L	-2	10	
Beryllium		25.00000	24.50000	ug/L	-2	10	
Cadmium		25.00000	25.10000	ug/L	0	10	
Calcium		500.0000	469.6000	ug/L	-6	10	
Chromium		50.00000	48.90000	ug/L	-2	10	
Cobalt		125.0000	120.0000	ug/L	-4	10	
Copper		50.00000	48.80000	ug/L	-2	10	
Iron		250.0000	309.9000	ug/L	**24**	10	c+ **
Lead		125.0000	125.0000	ug/L	0	10	
Magnesium		500.0000	510.8000	ug/L	2	10	
Manganese		25.00000	24.10000	ug/L	-4	10	
Molybdenum		250.0000	252.0000	ug/L	1	10	
Nickel		125.0000	123.0000	ug/L	-2	10	
Selenium		125.0000	123.0000	ug/L	-2	10	
Silver		25.00000	23.60000	ug/L	-6	10	
Thallium		125.0000	123.0000	ug/L	-2	10	
Titanium		250.0000	257.0000	ug/L	3	10	
Vanadium		125.0000	120.0000	ug/L	-4	10	
Zinc		25.00000	25.50000	ug/L	2	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792116
Run Name :
Filename : tr246799
IDF : 1.0
Injected : 31-AUG-2004 17:20
Caltype :

Standards: 04WS1319

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	774.0000	ug/L	3	10	
Antimony		750.0000	762.0000	ug/L	2	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	740.0000	ug/L	-1	10	
Beryllium		75.00000	72.60000	ug/L	-3	10	
Cadmium		75.00000	75.60000	ug/L	1	10	
Calcium		1500.000	1420.000	ug/L	-5	10	
Chromium		150.0000	147.0000	ug/L	-2	10	
Cobalt		375.0000	359.0000	ug/L	-4	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	860.5000	ug/L	**15**	10	c+ **
Lead		375.0000	369.0000	ug/L	-2	10	
Magnesium		1500.000	1488.000	ug/L	-1	10	
Manganese		75.00000	71.80000	ug/L	-4	10	
Molybdenum		750.0000	739.0000	ug/L	-1	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	72.30000	ug/L	-4	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	762.0000	ug/L	2	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	74.40000	ug/L	-1	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792124
Run Name :
Filename : tr246807
IDF : 1.0
Injected : 31-AUG-2004 18:02
Caltype :

Standards: 04WS1317

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	611.5000	ug/L	**22**	10	c+ **
Antimony		500.0000	512.0000	ug/L	2	10	
Arsenic		250.0000	255.0000	ug/L	2	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	48.50000	ug/L	-3	10	
Cadmium		50.00000	50.70000	ug/L	1	10	
Calcium		1000.000	1008.000	ug/L	1	10	
Chromium		100.0000	97.70000	ug/L	-2	10	
Cobalt		250.0000	239.0000	ug/L	-4	10	
Copper		100.0000	98.50000	ug/L	-2	10	
Iron		500.0000	579.0000	ug/L	**16**	10	c+ **
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1054.000	ug/L	5	10	
Manganese		50.00000	47.50000	ug/L	-5	10	
Molybdenum		500.0000	494.0000	ug/L	-1	10	
Nickel		250.0000	248.0000	ug/L	-1	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	47.50000	ug/L	-5	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	507.0000	ug/L	1	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	51.90000	ug/L	4	10	

+=high bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792003 Run Name: Injected: 31-AUG-2004 07:24
Filename: tr246685 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.3700]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[6.3700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792014 Run Name: Injected: 31-AUG-2004 08:36
Filename: tr246696 Run Type: CCB

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	10.30000	5.000000	ug/L	<RL	ib ***
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[155.60]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	246.7000	100.0000	ug/L	<RL	ib ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.0590]	500.0000	ug/L	<RL	
Manganese	[4.6600]	10.00000	ug/L	<RL	
Molybdenum	[10.500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	14.40000	5.000000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.5500]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792023 Run Name: Injected: 31-AUG-2004 09:15
Filename: tr246705 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.6900]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[59.640]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[62.200]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[21.410]	500.0000	ug/L	<RL	
Manganese	[1.7600]	10.00000	ug/L	<RL	
Molybdenum	[6.2700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	5.260000	5.000000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[4.3100]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792035 Run Name: Injected: 31-AUG-2004 10:10
Filename: tr246717 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.0700]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[42.310]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[35.320]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[14.540]	500.0000	ug/L	<RL
Manganese	[0.9660]	10.00000	ug/L	<RL
Molybdenum	[5.1500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.4100]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.0300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792047 Run Name: Injected: 31-AUG-2004 11:35
Filename: tr246729 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[22.640]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[29.150]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[52.430]	500.0000	ug/L	<RL
Manganese	[0.4550]	10.00000	ug/L	<RL
Molybdenum	[8.1500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.3300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792059 Run Name: Injected: 31-AUG-2004 12:37
Filename: tr246741 Run Type: CCB

Analyte	QuantAmt	RL	Units	Reg Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[13.150]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.0300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.3000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792070 Run Name: Injected: 31-AUG-2004 13:39
Filename: tr246752 Run Type: CCB

Analyte	QuantAmt	RL	Units	Reg Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.5890]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[7.2100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[3.8700]	5.000000	ug/L	<RL
Titanium	[2.2400]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792082 Run Name: Injected: 31-AUG-2004 14:42
Filename: tr246765 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[1.1900]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[18.500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.3200]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.3400]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792093 Run Name: Injected: 31-AUG-2004 15:38
Filename: tr246776 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[8.7910]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[9.3000]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.8600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792105 Run Name: Injected: 31-AUG-2004 16:36
Filename: tr246788 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[92.210]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.2960]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[29.250]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[14.820]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[5.5700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.9900]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792117 Run Name: Injected: 31-AUG-2004 17:28
Filename: tr246800 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[84.780]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.5840]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[19.760]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.7100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.5100]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792125 Run Name: Injected: 31-AUG-2004 18:06
Filename: tr246808 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	111.2000	100.0000	ug/L	<RL ib ***
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.7820]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[20.210]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[29.170]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[9.3100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[5.8400]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

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Page 1 of 1

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74351792005 Run Name: Injected: 31-AUG-2004 07:50
Filename: tr246687 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[2.9800]	60.00000	ug/L	<RL	
Arsenic	[2.4000]	5.000000	ug/L	<RL	
Barium	[0.3730]	10.00000	ug/L	<RL	
Beryllium	[-0.861]	2.000000	ug/L	<RL	
Cadmium	[-0.550]	5.000000	ug/L	<RL	
Chromium	[1.9000]	10.00000	ug/L	<RL	
Cobalt	[-0.089]	10.00000	ug/L	<RL	
Copper	[-4.060]	10.00000	ug/L	<RL	
Lead	[2.9000]	3.000000	ug/L	<RL	
Manganese	[2.3200]	10.00000	ug/L	<RL	
Molybdenum	[-1.420]	20.00000	ug/L	<RL	
Nickel	[1.2900]	20.00000	ug/L	<RL	
Selenium	-6.69000	5.000000	ug/L	<RL	
Silver	[-1.680]	5.000000	ug/L	<RL	
Thallium	[3.3400]	5.000000	ug/L	<RL	
Titanium	22.50000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-6.330]	10.00000	ug/L	<RL	
Zinc	[-1.420]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	533800	ug/L	107
Calcium	500000	448400.	ug/L	90
Iron	200000	182000	ug/L	91
Magnesium	500000	513500	ug/L	103

+=high bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792006
Run Name :
Filename : tr246688
Injected : 31-AUG-2004 07:57
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	549000.0	ug/L	10		
Antimony	500.0000	529.0000	ug/L	6	20	
Arsenic	500.0000	488.0000	ug/L	-2	20	
Barium	500.0000	491.0000	ug/L	-2	20	
Beryllium	500.0000	495.0000	ug/L	-1	20	
Cadmium	1000.000	859.0000	ug/L	-14	20	
Calcium	500000.0	465400.0	ug/L	-7		
Chromium	500.0000	467.0000	ug/L	-7	20	
Cobalt	500.0000	463.0000	ug/L	-7	20	
Copper	500.0000	549.0000	ug/L	10	20	
Iron	200000.0	186000.0	ug/L	-7		
Lead	1000.000	938.0000	ug/L	-6	20	
Magnesium	500000.0	527000.0	ug/L	5		
Manganese	500.0000	477.0000	ug/L	-5	20	
Molybdenum	500.0000	476.0000	ug/L	-5	20	
Nickel	1000.000	875.0000	ug/L	-13	20	
Selenium	500.0000	475.0000	ug/L	-5	20	
Silver	1000.000	927.0000	ug/L	-7	20	
Thallium	500.0000	472.0000	ug/L	-6	20	
Titanium	20000.00	22600.00	ug/L	13		
Vanadium	500.0000	482.0000	ug/L	-4	20	
Zinc	1000.000	974.0000	ug/L	-3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74351792123
Run Name :
Filename : tr246806
Injected : 31-AUG-2004 17:55
Caltype :

Standards: 04WS1256

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	480200.0	ug/L	-4		
Antimony	500.0000	569.0000	ug/L	14	20	
Arsenic	500.0000	542.0000	ug/L	8	20	
Barium	500.0000	501.0000	ug/L	0	20	
Beryllium	500.0000	470.0000	ug/L	-6	20	
Cadmium	1000.000	945.0000	ug/L	-6	20	
Calcium	500000.0	420300.0	ug/L	-16		
Chromium	500.0000	462.0000	ug/L	-8	20	
Cobalt	500.0000	460.0000	ug/L	-8	20	
Copper	500.0000	515.0000	ug/L	3	20	
Iron	200000.0	181800.0	ug/L	-9		
Lead	1000.000	955.0000	ug/L	-5	20	
Magnesium	500000.0	517500.0	ug/L	4		
Manganese	500.0000	449.0000	ug/L	-10	20	
Molybdenum	500.0000	490.0000	ug/L	-2	20	
Nickel	1000.000	917.0000	ug/L	-8	20	
Selenium	500.0000	514.0000	ug/L	3	20	
Silver	1000.000	879.0000	ug/L	-12	20	
Thallium	500.0000	504.0000	ug/L	1	20	
Titanium	20000.00	21600.00	ug/L	8		
Vanadium	500.0000	472.0000	ug/L	-6	20	
Zinc	1000.000	1000.000	ug/L	0	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr246683	CS				31-AUG-2004 07:12	1.0	1.0			1	
002	tr246684	ICV				31-AUG-2004 07:16	1.0	1.0			2	
003	tr246685	ICB				31-AUG-2004 07:24	1.0	1.0				
004	tr246686	CRI				31-AUG-2004 07:36	1.0	1.0			3	
005	tr246687	ICSA				31-AUG-2004 07:50	1.0	1.0	1		4	4:AL=533800
006	tr246688	ICSAB				31-AUG-2004 07:57	1.0	1.0			5	5:AL=549000
007	tr246689	BLANK	QC263059	94197	Soil	31-AUG-2004 08:05	1.0	50.0	4			
008	tr246690	BS	QC263060	94197	Soil	31-AUG-2004 08:09	1.0	50.0	6			
009	tr246691	BSD	QC263061	94197	Soil	31-AUG-2004 08:13	1.0	50.0	6			
010	tr246692	MSS	174299-002	94197	Soil	31-AUG-2004 08:19	1.0	38.76	8			6:FE=5246000
011	tr246693	MS	QC263062	94197	Soil	31-AUG-2004 08:23	1.0	34.72	1	10		6:FE=6690000
012	tr246694	MSD	QC263063	94197	Soil	31-AUG-2004 08:27	1.0	43.48	1	11		6:FE=4748000
013	tr246695	CCV				31-AUG-2004 08:33	1.0	1.0	3		6	
014	tr246696	CCB				31-AUG-2004 08:36	1.0	1.0	3			
015	tr246697	SAMPLE	174299-004	94197	Soil	31-AUG-2004 08:40	1.0	39.06				5:FE=703200
016	tr246698	SAMPLE	174299-007	94197	Soil	31-AUG-2004 08:44	1.0	32.89				5:FE=681600
017	tr246699	SAMPLE	174299-010	94197	Soil	31-AUG-2004 08:48	1.0	39.68				4:FE=563900
018	tr246700	SAMPLE	174299-013	94197	Soil	31-AUG-2004 08:52	1.0	40.32				6:FE=552200
019	tr246701	SAMPLE	174299-016	94197	Soil	31-AUG-2004 08:56	1.0	45.45				4:FE=496400
020	tr246702	SAMPLE	174299-019	94197	Soil	31-AUG-2004 09:00	1.0	43.10				5:FE=850500
021	tr246703	SAMPLE	174299-021	94197	Soil	31-AUG-2004 09:04	1.0	30.86				5:FE=602400
022	tr246704	CCV				31-AUG-2004 09:10	1.0	1.0	5		7	
023	tr246705	CCB				31-AUG-2004 09:15	1.0	1.0	1			
024	tr246706	SAMPLE	174299-024	94197	Soil	31-AUG-2004 09:24	1.0	53.19				6:CA=900500
025	tr246707	SAMPLE	174299-025	94197	Soil	31-AUG-2004 09:28	1.0	41.32				5:FE=530200
026	tr246708	SAMPLE	174299-026	94197	Soil	31-AUG-2004 09:32	1.0	45.45				5:FE=416700
027	tr246709	SAMPLE	174299-029	94197	Soil	31-AUG-2004 09:36	1.0	39.37				4:FE=534000
028	tr246710	SAMPLE	174299-031	94197	Soil	31-AUG-2004 09:40	1.0	55.56				5:CA=615600
029	tr246711	SAMPLE	174299-032	94197	Soil	31-AUG-2004 09:44	1.0	43.10				3:FE=459000
030	tr246712	SAMPLE	174299-033	94197	Soil	31-AUG-2004 09:48	1.0	47.62				3:FE=466500

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mei Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	tr246713	SAMPLE	174299-034	94197	Soil	31-AUG-2004 09:52	1.0	44.64				4:FE=487400
032	tr246714	SAMPLE	174299-036	94197	Soil	31-AUG-2004 09:56	1.0	41.32				7:CA=573500
033	tr246715	SAMPLE	174299-037	94197	Soil	31-AUG-2004 10:00	1.0	38.76				4:FE=558400
034	tr246716	CCV				31-AUG-2004 10:05	1.0	1.0	3		6	
035	tr246717	CCB				31-AUG-2004 10:10	1.0	1.0				
036	tr246718	BLANK	QC263094	94204	Water	31-AUG-2004 10:15	1.0	1.0	1			
037	tr246719	MSS	174079-029	94204	Water	31-AUG-2004 10:19	1.0	1.0	2			
038	tr246720	MS	QC263095	94204	Water	31-AUG-2004 10:23	1.0	1.0	2	2		
039	tr246721	MSD	QC263096	94204	Water	31-AUG-2004 10:27	1.0	1.0	2	2		
040	tr246722	BLANK	QC263076	94199	Soil	31-AUG-2004 10:39	1.0	50.0	1			
041	tr246723	BS	QC263077	94199	Soil	31-AUG-2004 11:06	1.0	50.0	4			
042	tr246724	BSD	QC263078	94199	Soil	31-AUG-2004 11:10	1.0	50.0	4			
043	tr246725	MSS	174288-012	94199	Soil	31-AUG-2004 11:16	1.0	37.88	5			4:MG=1986000
044	tr246726	MS	QC263079	94199	Soil	31-AUG-2004 11:20	1.0	51.55				4:MG=1651000
045	tr246727	MSD	QC263080	94199	Soil	31-AUG-2004 11:24	1.0	43.86		1		4:MG=1551000
046	tr246728	CCV				31-AUG-2004 11:31	1.0	1.0	1		6	
047	tr246729	CCB				31-AUG-2004 11:35	1.0	1.0				
048	tr246730	SAMPLE	174288-013	94199	Soil	31-AUG-2004 11:42	1.0	48.54				3:FE=396000
049	tr246731	SAMPLE	174288-014	94199	Soil	31-AUG-2004 11:46	1.0	54.95				3:MG=458200
050	tr246732	SAMPLE	174288-015	94199	Soil	31-AUG-2004 11:50	1.0	46.30				3:FE=396300
051	tr246733	SAMPLE	174288-016	94199	Soil	31-AUG-2004 11:54	1.0	35.46				3:FE=454800
052	tr246734	SAMPLE	174288-017	94199	Soil	31-AUG-2004 11:58	1.0	47.62				3:FE=483400
053	tr246735	SAMPLE	174288-018	94199	Soil	31-AUG-2004 12:02	1.0	52.63				4:FE=435200
054	tr246736	SAMPLE	174288-020	94199	Soil	31-AUG-2004 12:06	1.0	36.50				4:FE=606600
055	tr246737	SAMPLE	174288-021	94199	Soil	31-AUG-2004 12:11	1.0	46.73				5:FE=540200
056	tr246738	SAMPLE	174288-023	94199	Soil	31-AUG-2004 12:15	1.0	36.50				4:FE=637200
057	tr246739	SAMPLE	174288-025	94199	Soil	31-AUG-2004 12:19	1.0	46.73				3:FE=432000
058	tr246740	CCV				31-AUG-2004 12:24	1.0	1.0	1		7	
059	tr246741	CCB				31-AUG-2004 12:37	1.0	1.0				
060	tr246742	SAMPLE	174288-026	94199	Soil	31-AUG-2004 12:41	1.0	38.46				4:FE=606500

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mel Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	tr246743	SAMPLE	174288-028	94199	Soil	31-AUG-2004 12:45	1.0	43.10	1			5:MG=3530000
062	tr246744	SAMPLE	174288-030	94199	Soil	31-AUG-2004 12:49	1.0	50.51	1			4:MG=2841000
063	tr246745	SAMPLE	174288-031	94199	Soil	31-AUG-2004 12:53	1.0	47.17				3:FE=465600
064	tr246746	SAMPLE	174288-032	94199	Soil	31-AUG-2004 12:57	1.0	50.51				
065	tr246747	SAMPLE	174288-034	94199	Soil	31-AUG-2004 13:01	1.0	52.63				4:MG=1172000
066	tr246748	SAMPLE	174288-036	94199	Soil	31-AUG-2004 13:06	1.0	45.87				3:FE=554200
067	tr246749	SAMPLE	174288-037	94199	Soil	31-AUG-2004 13:10	1.0	54.35				3:FE=489700
068	tr246750	SAMPLE	174288-039	94199	Soil	31-AUG-2004 13:14	1.0	50.0				4:FE=515700
069	tr246751	CCV				31-AUG-2004 13:29	1.0	1.0	2		7	
070	tr246752	CCB				31-AUG-2004 13:39	1.0	1.0				
071	tr246753	BLANK	QC263085	94201	Water	31-AUG-2004 13:47	1.0	1.0	3			
072	tr246754	BS	QC263086	94201	Water	31-AUG-2004 13:51	1.0	1.0	3			
073	tr246755	BSD	QC263087	94201	Water	31-AUG-2004 13:55	1.0	1.0	3	2	spk	
074	tr246756	MSS	174317-001	94201	Water	31-AUG-2004 13:59	1.0	1.0	3			
075	tr246757	MS	QC263088	94201	Water	31-AUG-2004 14:03	1.0	1.0				
076	tr246758	MSD	QC263089	94201	Water	31-AUG-2004 14:06	1.0	1.0				
077	tr246759	SAMPLE	174272-001	94201	Water	31-AUG-2004 14:11	1.0	1.0				1:MG=188500
078	tr246760	SAMPLE	174272-003	94201	Water	31-AUG-2004 14:15	1.0	1.0				2:MG=868500
079	tr246761	SAMPLE	174272-005	94201	Water	31-AUG-2004 14:18	1.0	1.0	1		spk	3:MG=1038000
080	tr246762	SAMPLE	174317-002	94201	Water	31-AUG-2004 14:22	1.0	1.0				
081	tr246764	CCV				31-AUG-2004 14:33	1.0	1.0			8	
082	tr246765	CCB				31-AUG-2004 14:42	1.0	1.0				
083	tr246766	BLANK	QC263085	94201	Water	31-AUG-2004 14:47	1.0	1.0	1			
084	tr246767	BS	QC263086	94201	Water	31-AUG-2004 14:51	1.0	1.0	1			
085	tr246768	BSD	QC263087	94201	Water	31-AUG-2004 14:55	1.0	1.0	1			
086	tr246769	MSS	174317-001	94201	Water	31-AUG-2004 14:59	1.0	1.0	1			
087	tr246770	MS	QC263088	94201	Water	31-AUG-2004 15:02	1.0	1.0				
088	tr246771	MSD	QC263089	94201	Water	31-AUG-2004 15:06	1.0	1.0				
089	tr246772	SAMPLE	174272-005	94201	Water	31-AUG-2004 15:11	1.0	1.0	1			3:MG=1066000
090	tr246773	SAMPLE	174317-003	94201	Water	31-AUG-2004 15:15	1.0	1.0				

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS

Flags used: spk=5% spike rule

Analyst: Mei Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
091	tr246774	SAMPLE	174272-005	94201	Water	31-AUG-2004 15:19	10.0	1.0				1:MG=110000
092	tr246775	CCV				31-AUG-2004 15:32	1.0	1.0			7	
093	tr246776	CCB				31-AUG-2004 15:38	1.0	1.0				
094	tr246777	SAMPLE	174294-001	94201	Water	31-AUG-2004 15:42	1.0	1.0				
095	tr246778	SAMPLE	174294-002	94201	Water	31-AUG-2004 15:46	1.0	1.0				
096	tr246779	SAMPLE	174294-003	94201	Water	31-AUG-2004 15:50	1.0	1.0				
097	tr246780	SAMPLE	174319-001	94201	Water	31-AUG-2004 15:54	1.0	1.0				
098	tr246781	SAMPLE	174288-028	94199	Soil	31-AUG-2004 15:58	10.0	43.10				1:MG=274000
099	tr246782	SAMPLE	174288-030	94199	Soil	31-AUG-2004 16:01	10.0	50.51				1:MG=326200
100	tr246783	BLANK	QC263064	94198	Soil	31-AUG-2004 16:09	1.0	50.0	3			
101	tr246784	BS	QC263065	94198	Soil	31-AUG-2004 16:12	1.0	50.0	3			
102	tr246785	BSD	QC263066	94198	Soil	31-AUG-2004 16:16	1.0	50.0	3			
103	tr246786	MSS	174320-002	94198	Soil	31-AUG-2004 16:23	1.0	38.76	4			4:FE=604600
104	tr246787	CCV				31-AUG-2004 16:32	1.0	1.0	2		9	
105	tr246788	CCB				31-AUG-2004 16:36	1.0	1.0				
106	tr246789	SER	QC263069	94198	Soil	31-AUG-2004 16:40	5.0	38.76				1:FE=117500
107	tr246790	SER	QC263069	94198	Soil	31-AUG-2004 16:44	5.0	38.76				1:FE=118000
108	tr246791	MS	QC263067	94198	Soil	31-AUG-2004 16:48	1.0	34.97				4:FE=655900
109	tr246792	MSD	QC263068	94198	Soil	31-AUG-2004 16:52	1.0	38.76				4:FE=611300
110	tr246793	MSS	174320-006	94198	Soil	31-AUG-2004 16:56	1.0	49.02	3			2:FE=186400
111	tr246794	MSS	174320-006	94198	Soil	31-AUG-2004 17:00	1.0	49.02	3			2:FE=184400
112	tr246795	SER	QC263183	94198	Soil	31-AUG-2004 17:04	5.0	49.02				
113	tr246796	MS	QC263070	94198	Soil	31-AUG-2004 17:07	1.0	48.08				3:FE=215900
114	tr246797	MSD	QC263071	94198	Soil	31-AUG-2004 17:11	1.0	50.0				3:FE=207100
115	tr246798	SAMPLE	174320-001	94198	Soil	31-AUG-2004 17:15	1.0	43.86	1			3:FE=411900
116	tr246799	CCV				31-AUG-2004 17:20	1.0	1.0	1		7	
117	tr246800	CCB				31-AUG-2004 17:28	1.0	1.0				
118	tr246801	SAMPLE	174320-001	94198	Soil	31-AUG-2004 17:33	1.0	43.86				3:FE=408700
119	tr246802	SAMPLE	174320-004	94198	Soil	31-AUG-2004 17:36	1.0	42.74				3:FE=342100
120	tr246803	SAMPLE	174320-005	94198	Soil	31-AUG-2004 17:40	1.0	49.50				2:FE=317200

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mel Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
121	tr246804	PDS	QC263184	94198	Soil	31-AUG-2004 17:45	1.0	38.76		10 11	4:FE=596800
122	tr246805	PDS	QC263182	94198	Soil	31-AUG-2004 17:48	1.0	49.02		10 11	3:FE=197300
123	tr246806	ICSAB				31-AUG-2004 17:55	1.0	1.0		5	5:MG=517500
124	tr246807	CCV				31-AUG-2004 18:02	1.0	1.0	2	8	
125	tr246808	CCB				31-AUG-2004 18:06	1.0	1.0	1		

57

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mel Wu Date: 8/31/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 174320 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN
174320-001	MET07	08/31/04 17:15	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+
174320-001	MET07	08/31/04 17:33	1.0												+				
174320-002	MET07	08/31/04 16:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174320-004	MET07	08/31/04 17:36	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174320-005	MET07	08/31/04 17:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174320-006	MET07	08/31/04 16:56	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+
174320-006	MET07	08/31/04 17:00	1.0												+				
QC263064	MET07	08/31/04 16:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263065	MET07	08/31/04 16:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263066	MET07	08/31/04 16:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263067	MET07	08/31/04 16:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263068	MET07	08/31/04 16:52	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263069	MET07	08/31/04 16:40	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263069	MET07	08/31/04 16:44	5.0																
QC263070	MET07	08/31/04 17:07	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263071	MET07	08/31/04 17:11	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263182	MET07	08/31/04 17:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263183	MET07	08/31/04 17:04	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC263184	MET07	08/31/04 17:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories **Sample Preparation Summary** **31-AUG-2004 15:03**

Batch Number : 94198
Date Extracted: 30-AUG-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174298-001			ConocoPhillips Company	Miscell.	1.2	g	50	41.666667	1					PB		
174300-001			ConocoPhillips Company	Miscell.	1.18	g	50	42.372881	1					PB		
174304-001			Environ	Soil	1.25	g	50	40.000000	1					T26/ICP		
174304-002			Environ	Soil	1.49	g	50	33.557047	1					T26/ICP		
174304-006			Environ	Soil	.97	g	50	51.546392	1					T26/ICP		
174304-007			Environ	Soil	1.11	g	50	45.045045	1					T26/ICP		
174307-005			SOMA Environmental Engineering	Soil	1.24	g	50	40.322581	1					PB		
174311-001			ConocoPhillips Company	Miscell.	1.37	g	50	36.496350	1					V		
174311-002			ConocoPhillips Company	Miscell.	1.17	g	50	42.735043	1					V		
174316-005			Port of Oakland	Soil	1.35	g	50	37.037037	1					T26/ICP		
174320-001			Treadwell & Rollo	Soil	1.14	g	50	43.859649	1					T26/ICP		
174320-002			Treadwell & Rollo	Soil	1.29	g	50	38.759690	1					T26/ICP		mss
174320-004			Treadwell & Rollo	Soil	1.17	g	50	42.735043	1					T26/ICP		
174320-005			Treadwell & Rollo	Soil	1.01	g	50	49.504950	1					T26/ICP		
174320-006			Treadwell & Rollo	Soil	1.02	g	50	49.019608	1					T26/ICP		mss
QC263064	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC263065	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC263066	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC263067	MS	of 174320-002		Soil	1.43	g	50	34.965035	1		.5	.5		ICAP		
QC263068	MSD	of 174320-002		Soil	1.29	g	50	38.759690	1		.5	.5		ICAP		
QC263069	SER	of 174320-002		Soil	1.29	g	50	38.759690	1					ICAP		
QC263070	MS	of 174320-006		Soil	1.04	g	50	48.076923	1		.5	.5		ICAP		
QC263071	MSD	of 174320-006		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC263182	PDS	of 174320-006		Soil	1.02	g	50	49.019608	1					ICAP		
QC263183	SER	of 174320-006		Soil	1.02	g	50	49.019608	1					ICAP		
QC263184	PDS	of 174320-002		Soil	1.29	g	50	38.759690	1					ICAP		

Prep Chemist: MW for VV Reviewed By: MW Date: 8/31/04

Relinquished By: MW Received By: MW Date: 8/31/04

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 94198
Date Digested: 8\30\04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 1971
Page 77

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BK QC 263064	Ø	50.0	Y	
*	BS 263065				
*	BSD 263066				
*	174320-002 MS A	1.43			
*	-002 MSD	1.29			
*	-006 MS	1.04			
*	-006 MSD	1.00			
	174298-001	1.20			comp 4 cores.
	174300-001	1.18			
10	174304-001 A	1.25			
	-002	1.49			
	-006	0.97			
	-007	1.11			
	174307-005	1.24			comp 4 cores.
15	174311-001	1.37			comp 3 jars
	-002	1.17			
	174316-005	1.35			comp 001, 002, 003, 004
	174320-001 A	1.14			sample from end labeled with A "B"
	-002	1.29			MSS
20	-004	1.17			
	-005	1.01			
	-006	1.02			MSS

0.5 mL of spike solution was added to all spikes

	Reagent ID or LIMS #	Initials / Date
	0455171 *	VV 8/30/04
	0455172 *	
digestion temperature (90 - 95 degrees C)	95°C	
1:1 HNO3	A26032-083004	
concentrated HNO3	A26032- JTBaker	
3mL 30% hydrogen peroxide	43287349- VWR	
concentrated HCl	A21033 JTBaker	
☒ filtered thru' Whatman # 541	E1566057	

Continued from page 60
Continued on page -

8/30/04
Extraction Chemist / Date

MW 8/31/04
Reviewed by / Date

ICP Raw Data

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr246683	CS				31-AUG-2004 07:12	1.0	1.0			1	
002	tr246684	ICV				31-AUG-2004 07:16	1.0	1.0			2	
003	tr246685	ICB				31-AUG-2004 07:24	1.0	1.0				
004	tr246686	CRI				31-AUG-2004 07:36	1.0	1.0			3	
005	tr246687	ICSA				31-AUG-2004 07:50	1.0	1.0	1		4	4:AL=533800
006	tr246688	ICSAB				31-AUG-2004 07:57	1.0	1.0			5	5:AL=549000
007	tr246689	BLANK	QC263059	94197	Soil	31-AUG-2004 08:05	1.0	50.0	4			
008	tr246690	BS	QC263060	94197	Soil	31-AUG-2004 08:09	1.0	50.0	6			
009	tr246691	BSD	QC263061	94197	Soil	31-AUG-2004 08:13	1.0	50.0	6			
010	tr246692	MSS	174299-002	94197	Soil	31-AUG-2004 08:19	1.0	38.76	8			6:FE=5246000
011	tr246693	MS	QC263062	94197	Soil	31-AUG-2004 08:23	1.0	34.72	1	10		6:FE=6690000
012	tr246694	MSD	QC263063	94197	Soil	31-AUG-2004 08:27	1.0	43.48	1	11		6:FE=4748000
013	tr246695	CCV				31-AUG-2004 08:33	1.0	1.0	3		6	
014	tr246696	CCB				31-AUG-2004 08:36	1.0	1.0	3			
015	tr246697	SAMPLE	174299-004	94197	Soil	31-AUG-2004 08:40	1.0	39.06				5:FE=703200
016	tr246698	SAMPLE	174299-007	94197	Soil	31-AUG-2004 08:44	1.0	32.89				5:FE=681600
017	tr246699	SAMPLE	174299-010	94197	Soil	31-AUG-2004 08:48	1.0	39.68				4:FE=563900
018	tr246700	SAMPLE	174299-013	94197	Soil	31-AUG-2004 08:52	1.0	40.32				6:FE=552200
019	tr246701	SAMPLE	174299-016	94197	Soil	31-AUG-2004 08:56	1.0	45.45				4:FE=496400
020	tr246702	SAMPLE	174299-019	94197	Soil	31-AUG-2004 09:00	1.0	43.10				5:FE=850500
021	tr246703	SAMPLE	174299-021	94197	Soil	31-AUG-2004 09:04	1.0	30.86				5:FE=602400
022	tr246704	CCV				31-AUG-2004 09:10	1.0	1.0	5		7	
023	tr246705	CCB				31-AUG-2004 09:15	1.0	1.0	1			
024	tr246706	SAMPLE	174299-024	94197	Soil	31-AUG-2004 09:24	1.0	53.19				6:CA=900500
025	tr246707	SAMPLE	174299-025	94197	Soil	31-AUG-2004 09:28	1.0	41.32				5:FE=530200
026	tr246708	SAMPLE	174299-026	94197	Soil	31-AUG-2004 09:32	1.0	45.45				5:FE=416700
027	tr246709	SAMPLE	174299-029	94197	Soil	31-AUG-2004 09:36	1.0	39.37				4:FE=534000
028	tr246710	SAMPLE	174299-031	94197	Soil	31-AUG-2004 09:40	1.0	55.56				5:CA=615600
029	tr246711	SAMPLE	174299-032	94197	Soil	31-AUG-2004 09:44	1.0	43.10				3:FE=459000
030	tr246712	SAMPLE	174299-033	94197	Soil	31-AUG-2004 09:48	1.0	47.62				3:FE=466500

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mei Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	tr246713	SAMPLE	174299-034	94197	Soil	31-AUG-2004 09:52	1.0	44.64				4:FE=487400
032	tr246714	SAMPLE	174299-036	94197	Soil	31-AUG-2004 09:56	1.0	41.32				7:CA=573500
033	tr246715	SAMPLE	174299-037	94197	Soil	31-AUG-2004 10:00	1.0	38.76				4:FE=558400
034	tr246716	CCV				31-AUG-2004 10:05	1.0	1.0	3		6	
035	tr246717	CCB				31-AUG-2004 10:10	1.0	1.0				
036	tr246718	BLANK	QC263094	94204	Water	31-AUG-2004 10:15	1.0	1.0	1			
037	tr246719	MSS	174079-029	94204	Water	31-AUG-2004 10:19	1.0	1.0	2			
038	tr246720	MS	QC263095	94204	Water	31-AUG-2004 10:23	1.0	1.0	2	2		
039	tr246721	MSD	QC263096	94204	Water	31-AUG-2004 10:27	1.0	1.0	2	2		
040	tr246722	BLANK	QC263076	94199	Soil	31-AUG-2004 10:39	1.0	50.0	1			
041	tr246723	BS	QC263077	94199	Soil	31-AUG-2004 11:06	1.0	50.0	4			
042	tr246724	BSD	QC263078	94199	Soil	31-AUG-2004 11:10	1.0	50.0	4			
043	tr246725	MSS	174288-012	94199	Soil	31-AUG-2004 11:16	1.0	37.88	5			4:MG=1986000
044	tr246726	MS	QC263079	94199	Soil	31-AUG-2004 11:20	1.0	51.55				4:MG=1651000
045	tr246727	MSD	QC263080	94199	Soil	31-AUG-2004 11:24	1.0	43.86		1		4:MG=1551000
046	tr246728	CCV				31-AUG-2004 11:31	1.0	1.0	1		6	
047	tr246729	CCB				31-AUG-2004 11:35	1.0	1.0				
048	tr246730	SAMPLE	174288-013	94199	Soil	31-AUG-2004 11:42	1.0	48.54				3:FE=396000
049	tr246731	SAMPLE	174288-014	94199	Soil	31-AUG-2004 11:46	1.0	54.95				3:MG=458200
050	tr246732	SAMPLE	174288-015	94199	Soil	31-AUG-2004 11:50	1.0	46.30				3:FE=396300
051	tr246733	SAMPLE	174288-016	94199	Soil	31-AUG-2004 11:54	1.0	35.46				3:FE=454800
052	tr246734	SAMPLE	174288-017	94199	Soil	31-AUG-2004 11:58	1.0	47.62				3:FE=483400
053	tr246735	SAMPLE	174288-018	94199	Soil	31-AUG-2004 12:02	1.0	52.63				4:FE=435200
054	tr246736	SAMPLE	174288-020	94199	Soil	31-AUG-2004 12:06	1.0	36.50				4:FE=606600
055	tr246737	SAMPLE	174288-021	94199	Soil	31-AUG-2004 12:11	1.0	46.73				5:FE=540200
056	tr246738	SAMPLE	174288-023	94199	Soil	31-AUG-2004 12:15	1.0	36.50				4:FE=637200
057	tr246739	SAMPLE	174288-025	94199	Soil	31-AUG-2004 12:19	1.0	46.73				3:FE=432000
058	tr246740	CCV				31-AUG-2004 12:24	1.0	1.0	1		7	
059	tr246741	CCB				31-AUG-2004 12:37	1.0	1.0				
060	tr246742	SAMPLE	174288-026	94199	Soil	31-AUG-2004 12:41	1.0	38.46				4:FE=606500

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mei Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
061	tr246743	SAMPLE	174288-028	94199	Soil	31-AUG-2004 12:45	1.0	43.10	1			5:MG=3530000
062	tr246744	SAMPLE	174288-030	94199	Soil	31-AUG-2004 12:49	1.0	50.51	1			4:MG=2841000
063	tr246745	SAMPLE	174288-031	94199	Soil	31-AUG-2004 12:53	1.0	47.17				3:FE=465600
064	tr246746	SAMPLE	174288-032	94199	Soil	31-AUG-2004 12:57	1.0	50.51				
065	tr246747	SAMPLE	174288-034	94199	Soil	31-AUG-2004 13:01	1.0	52.63				4:MG=1172000
066	tr246748	SAMPLE	174288-036	94199	Soil	31-AUG-2004 13:06	1.0	45.87				3:FE=554200
067	tr246749	SAMPLE	174288-037	94199	Soil	31-AUG-2004 13:10	1.0	54.35				3:FE=489700
068	tr246750	SAMPLE	174288-039	94199	Soil	31-AUG-2004 13:14	1.0	50.0				4:FE=515700
069	tr246751	CCV				31-AUG-2004 13:29	1.0	1.0	2		7	
070	tr246752	CCB				31-AUG-2004 13:39	1.0	1.0				
071	tr246753	BLANK	QC263085	94201	Water	31-AUG-2004 13:47	1.0	1.0	3			
072	tr246754	BS	QC263086	94201	Water	31-AUG-2004 13:51	1.0	1.0	3			
073	tr246755	BSD	QC263087	94201	Water	31-AUG-2004 13:55	1.0	1.0	3	2	spk	
074	tr246756	MSS	174317-001	94201	Water	31-AUG-2004 13:59	1.0	1.0	3			
075	tr246757	MS	QC263088	94201	Water	31-AUG-2004 14:03	1.0	1.0				
076	tr246758	MSD	QC263089	94201	Water	31-AUG-2004 14:06	1.0	1.0				
077	tr246759	SAMPLE	174272-001	94201	Water	31-AUG-2004 14:11	1.0	1.0				1:MG=188500
078	tr246760	SAMPLE	174272-003	94201	Water	31-AUG-2004 14:15	1.0	1.0				2:MG=868500
079	tr246761	SAMPLE	174272-005	94201	Water	31-AUG-2004 14:18	1.0	1.0	1		spk	3:MG=1038000
080	tr246762	SAMPLE	174317-002	94201	Water	31-AUG-2004 14:22	1.0	1.0				
081	tr246764	CCV				31-AUG-2004 14:33	1.0	1.0			8	
082	tr246765	CCB				31-AUG-2004 14:42	1.0	1.0				
083	tr246766	BLANK	QC263085	94201	Water	31-AUG-2004 14:47	1.0	1.0	1			
084	tr246767	BS	QC263086	94201	Water	31-AUG-2004 14:51	1.0	1.0	1			
085	tr246768	BSD	QC263087	94201	Water	31-AUG-2004 14:55	1.0	1.0	1			
086	tr246769	MSS	174317-001	94201	Water	31-AUG-2004 14:59	1.0	1.0	1			
087	tr246770	MS	QC263088	94201	Water	31-AUG-2004 15:02	1.0	1.0				
088	tr246771	MSD	QC263089	94201	Water	31-AUG-2004 15:06	1.0	1.0				
089	tr246772	SAMPLE	174272-005	94201	Water	31-AUG-2004 15:11	1.0	1.0	1			3:MG=1066000
090	tr246773	SAMPLE	174317-003	94201	Water	31-AUG-2004 15:15	1.0	1.0				

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mei Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
091	tr246774	SAMPLE	174272-005	94201	Water	31-AUG-2004 15:19	10.0	1.0				1:MG=110000
092	tr246775	CCV				31-AUG-2004 15:32	1.0	1.0			7	
093	tr246776	CCB				31-AUG-2004 15:38	1.0	1.0				
094	tr246777	SAMPLE	174294-001	94201	Water	31-AUG-2004 15:42	1.0	1.0				
095	tr246778	SAMPLE	174294-002	94201	Water	31-AUG-2004 15:46	1.0	1.0				
096	tr246779	SAMPLE	174294-003	94201	Water	31-AUG-2004 15:50	1.0	1.0				
097	tr246780	SAMPLE	174319-001	94201	Water	31-AUG-2004 15:54	1.0	1.0				
098	tr246781	SAMPLE	174288-028	94199	Soil	31-AUG-2004 15:58	10.0	43.10				1:MG=274000
099	tr246782	SAMPLE	174288-030	94199	Soil	31-AUG-2004 16:01	10.0	50.51				1:MG=326200
100	tr246783	BLANK	QC263064	94198	Soil	31-AUG-2004 16:09	1.0	50.0	3			
101	tr246784	BS	QC263065	94198	Soil	31-AUG-2004 16:12	1.0	50.0	3			
102	tr246785	BSD	QC263066	94198	Soil	31-AUG-2004 16:16	1.0	50.0	3			
103	tr246786	MSS	174320-002	94198	Soil	31-AUG-2004 16:23	1.0	38.76	4			4:FE=604600
104	tr246787	CCV				31-AUG-2004 16:32	1.0	1.0	2		9	
105	tr246788	CCB				31-AUG-2004 16:36	1.0	1.0				
106	tr246789	SER	QC263069	94198	Soil	31-AUG-2004 16:40	5.0	38.76				1:FE=117500
107	tr246790	SER	QC263069	94198	Soil	31-AUG-2004 16:44	5.0	38.76				1:FE=118000
108	tr246791	MS	QC263067	94198	Soil	31-AUG-2004 16:48	1.0	34.97				4:FE=655900
109	tr246792	MSD	QC263068	94198	Soil	31-AUG-2004 16:52	1.0	38.76				4:FE=611300
110	tr246793	MSS	174320-006	94198	Soil	31-AUG-2004 16:56	1.0	49.02	3			2:FE=186400
111	tr246794	MSS	174320-006	94198	Soil	31-AUG-2004 17:00	1.0	49.02	3			2:FE=184400
112	tr246795	SER	QC263183	94198	Soil	31-AUG-2004 17:04	5.0	49.02				
113	tr246796	MS	QC263070	94198	Soil	31-AUG-2004 17:07	1.0	48.08				3:FE=215900
114	tr246797	MSD	QC263071	94198	Soil	31-AUG-2004 17:11	1.0	50.0				3:FE=207100
115	tr246798	SAMPLE	174320-001	94198	Soil	31-AUG-2004 17:15	1.0	43.86	1			3:FE=411900
116	tr246799	CCV				31-AUG-2004 17:20	1.0	1.0	1		7	
117	tr246800	CCB				31-AUG-2004 17:28	1.0	1.0				
118	tr246801	SAMPLE	174320-001	94198	Soil	31-AUG-2004 17:33	1.0	43.86				3:FE=408700
119	tr246802	SAMPLE	174320-004	94198	Soil	31-AUG-2004 17:36	1.0	42.74				3:FE=342100
120	tr246803	SAMPLE	174320-005	94198	Soil	31-AUG-2004 17:40	1.0	49.50				2:FE=317200

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mel Wu Date: 8/31/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74351792 Instrument: MET07 TJA Trace ICP Begun: 31-AUG-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
121	tr246804	PDS	QC263184	94198	Soil	31-AUG-2004 17:45	1.0	38.76		10 11	4:FE=596800
122	tr246805	PDS	QC263182	94198	Soil	31-AUG-2004 17:48	1.0	49.02		10 11	3:FE=197300
123	tr246806	ICSAB				31-AUG-2004 17:55	1.0	1.0		5	5:MG=517500
124	tr246807	CCV				31-AUG-2004 18:02	1.0	1.0	2	8	
125	tr246808	CCB				31-AUG-2004 18:06	1.0	1.0	1		

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1124 5=04WS1256 6=04WS1578 7=04WS1319 8=04WS1317 9=04WS1318 10=04SS171 11=04SS
Flags used: spk=5% spike rule

Analyst: Mel Wu Date: 8/31/04
Page 5 of 5

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum	: 174320-001	Cident	: BB3EX117[0.5]
Seqnum	: 74351792115	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr246798	Batchnum	: 94198	Injected	: 31-AUG-2004 17:15
IDF	: 1.0			Units	: mg/Kg

Prep: 1.14 g --> 50.0 ml = 43.86 ml/g PDF

Analyte	Result	RL	B=tr246783	Flags
Antimony	ND	2.6		u
Arsenic	3.1	0.22		u
Barium	9.6	0.44		u
Beryllium	0.21	0.088		u
Cadmium	ND	0.22		u
Chromium	54	0.44		u
Cobalt	5.2	0.88		u
Copper	2.8	0.44		u
Lead	1.6	0.13		u
Molybdenum	ND	0.88		u
Nickel	20	0.88		u
Selenium	1.6	0.22		r b*
Silver	ND	0.22		u
Thallium	ND	0.22		u
Vanadium	55	0.44		u
Zinc	16	0.88	0.19	u

b=noncompliant r=RSD out u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	174320-001	Cident	: BB3EX117[0.5]
Seqnum	: 74351792118	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr246801	Batchnum	: 94198	Injected	: 31-AUG-2004 17:33
IDF	: 1.0			Units	: mg/Kg

Prep: 1.14 g --> 50.0 ml = 43.86 ml/g PDF

Analyte	Result	RL	B-tr246783	Flags
Antimony	ND	2.6		
Arsenic	2.6	0.22		
Barium	9.6	0.44		
Beryllium	0.21	0.088		
Cadmium	ND	0.22		
Chromium	54	0.44		
Cobalt	5.2	0.88		
Copper	2.8	0.44		
Lead	1.6	0.13		
Molybdenum	ND	0.88		
Nickel	20	0.88		
Selenium	ND	0.22		u
Silver	ND	0.22		
Thallium	ND	0.22		
Vanadium	55	0.44		
Zinc	16	0.88	0.19	

u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum	: 174320-002	Cident	: BB3EX118[0.5]
Seqnum	: 74351792103	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr246786	Batchnum	: 94198	Injected	: 31-AUG-2004 16:23
IDF	: 1.0			Units	: mg/Kg

Prep: 1.29 g --> 50.0 ml = 38.76 ml/g PDF

Analyte	Result	RL	B=tr246783	Flags
Antimony	ND	2.3		u
Arsenic	2.4	0.19		u
Barium	87	0.39		u
Beryllium	0.44	0.078		u
Cadmium	ND	0.19		u
Chromium	130	0.39		u
Cobalt	8.5	0.78		u
Copper	16	0.39		u
Lead	4.2	0.12		u
Molybdenum	ND	0.78		u
Nickel	150	0.78		u
Selenium	ND	0.19		u
Silver	ND	0.19		u
Thallium	ND	0.19		u
Vanadium	51	0.39		u
Zinc	33	0.78	0.19	u

u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	174320-004	Cident	: BB3EX120[0.5]
Seqnum	: 74351792119	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr246802	Batchnum	: 94198	Injected	: 31-AUG-2004 17:36
IDF	: 1.0			Units	: mg/Kg

Prep: 1.17 g --> 50.0 ml = 42.74 ml/g PDF

Analyte	Result	RL	B=tr246783	Flags
Antimony	ND	2.6		u
Arsenic	2.7	0.21		u
Barium	13	0.43		u
Beryllium	0.21	0.085		u
Cadmium	ND	0.21		u
Chromium	46	0.43		u
Cobalt	5.1	0.85		u
Copper	4.2	0.43		u
Lead	19	0.13		u
Molybdenum	ND	0.85		u
Nickel	22	0.85		u
Selenium	ND	0.21		u
Silver	ND	0.21		u
Thallium	ND	0.21		u
Vanadium	44	0.43		u
Zinc	70	0.85	0.19	u

u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	174320-005	Cident	: DUP083004A
Seqnum	: 74351792120	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr246803	Batchnum	: 94198	Injected	: 31-AUG-2004 17:40
IDF	: 1.0			Units	: mg/Kg

Prep: 1.01 g --> 50.0 ml = 49.50 ml/g PDF

Analyte	Result	RL	B=tr246783	Flags
Antimony	ND	3.0		u
Arsenic	2.7	0.25		u
Barium	18	0.50		u
Beryllium	0.22	0.099		u
Cadmium	ND	0.25		u
Chromium	50	0.50		u
Cobalt	5.3	0.99		u
Copper	4.2	0.50		u
Lead	8.7	0.15		u
Molybdenum	ND	0.99		u
Nickel	23	0.99		u
Selenium	ND	0.25		u
Silver	ND	0.25		u
Thallium	ND	0.25		u
Vanadium	48	0.50		u
Zinc	29	0.99	0.19	u

u=use

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	174320-006	Cident	: BB3EX121[0.5]
Seqnum	: 74351792110	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr246793	Batchnum	: 94198	Injected	: 31-AUG-2004 16:56
IDF	: 1.0			Units	: mg/Kg

Prep: 1.02 g --> 50.0 ml = 49.02 ml/g PDF

Analyte	Result	RL	B=tr246783	Flags
Antimony	ND	2.9		u
Arsenic	2.9	0.25		u
Barium	13	0.49		u
Beryllium	0.16	0.098		u
Cadmium	ND	0.25		u
Chromium	26	0.49		u
Cobalt	3.4	0.98		u
Copper	2.6	0.49		u
Lead	1.5	0.15		u
Molybdenum	ND	0.98		u
Nickel	18	0.98		u
Selenium	0.81	0.25		r
Silver	ND	0.25		u
Thallium	ND	0.25		u
Vanadium	26	0.49		u
Zinc	12	0.98	0.19	u

r=RSD out u=use
Page 1 of 1

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum	: 174320-006	Cident	: BB3EX121[0.5]
Seqnum	: 74351792111	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr246794	Batchnum	: 94198	Injected	: 31-AUG-2004 17:00
IDF	: 1.0			Units	: mg/Kg

Prep: 1.02 g --> 50.0 ml = 49.02 ml/g PDF

Analyte	Result	RL	B=tr246783	Flags
Antimony	ND	2.9		
Arsenic	2.5	0.25		
Barium	13	0.49		
Beryllium	0.16	0.098		
Cadmium	ND	0.25		
Chromium	26	0.49		
Cobalt	3.4	0.98		
Copper	2.5	0.49		
Lead	1.4	0.15		
Molybdenum	ND	0.98		
Nickel	18	0.98		
Selenium	ND	0.25		u
Silver	ND	0.25		
Thallium	ND	0.25		
Vanadium	26	0.49		
Zinc	12	0.98	0.19	

u=use

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	QC263064	Cident	:
Seqnum	: 74351792100	Matrix	: Soil	Acctnum	:
Filename	: tr246783	Batchnum	: 94198	Injected	: 31-AUG-2004 16:09
IDF	: 1.0			Units	: mg/Kg

Prep: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Result	RL	Flags
Aluminum	5.7	5.0	>c+ B r b*
Antimony	ND	3.0	u
Arsenic	ND	0.25	u
Barium	ND	0.50	u
Beryllium	ND	0.10	u
Cadmium	ND	0.25	u
Calcium	3.4 J	25	
Chromium	ND	0.50	u
Cobalt	ND	1.0	u
Copper	ND	0.50	u
Iron	5.8	5.0	>c+ B b*
Lead	ND	0.15	u
Magnesium	2.5 J	25	
Manganese	ND	0.50	
Molybdenum	ND	1.0	u
Nickel	ND	1.0	u
Selenium	ND	0.25	u
Silver	ND	0.25	u
Thallium	ND	0.25	u
Vanadium	ND	0.50	u
Zinc	0.19 J	1.0	u
Titanium	ND	0.50	a+ b*

+=high bias >=closing B=method blank contamination a=ICSA b=noncompliant c=CCV r=RSD out u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74351792101	Seqnum	: 74351792102
Filename	: tr246784	Filename	: tr246785
IDF	: 1.0	IDF	: 1.0
Run type	: BS	Run type	: BSD
Samplenum	: QC263065	Samplenum	: QC263066
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94198	Batchnum	: 94198
Inj	: 31-AUG-2004 16:12	Inj	: 31-AUG-2004 16:16
Units	: mg/Kg		

BS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
BSD: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Spike Conc	BS	%Rec	BSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	927.0	93	936.5	94	79-120	1	20	>c+ b*
Antimony	100.0	101.5	102	103.0	103	80-120	1	20	u
Arsenic	50.00	51.00	102	52.00	104	80-120	2	20	u
Barium	100.0	99.00	99	100.0	100	80-120	1	20	u
Beryllium	2.500	2.480	99	2.505	100	80-120	1	20	u
Cadmium	10.00	9.900	99	10.05	101	80-120	2	20	u
Calcium	1000	949.5	95	959.5	96	80-120	1	20	
Chromium	100.0	96.50	97	97.50	98	80-120	1	20	u
Cobalt	25.00	23.95	96	24.25	97	80-120	1	20	u
Copper	12.50	12.45	100	12.55	100	80-120	1	20	u
Iron	1000	957.5	96	967.0	97	80-120	1	20	>c+ b*
Lead	100.0	98.00	98	99.00	99	80-120	1	20	u
Magnesium	1000	981.0	98	992.0	99	80-120	1	20	
Manganese	25.00	23.60	94	23.85	95	80-120	1	20	
Molybdenum	20.00	18.65	93	19.90	100	80-120	6	20	u
Nickel	25.00	24.40	98	24.70	99	80-120	1	20	u
Selenium	50.00	46.55	93	50.50	101	80-120	8	20	u
Silver	10.00	9.950	100	10.05	101	80-120	1	20	u
Thallium	50.00	49.25	99	49.85	100	79-120	1	20	u
Vanadium	25.00	24.40	98	24.70	99	80-120	1	20	u
Zinc	25.00	24.10	96	24.30	97	80-120	1	20	u
Titanium	50.00	51.00	102	51.50	103	80-120	1	20	a+ b*

+=high bias >=closing a=ICSA b=noncompliant c=CCV u=use
Page 1 of 1

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74351792103	Seqnum : 74351792108	Seqnum : 74351792109
Filename : tr246786	Filename : tr246791	Filename : tr246792
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-002	Samplenum: QC263067	Samplenum: QC263068
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94198	Batchnum : 94198	Batchnum : 94198
Inj : 31-AUG-2004 16:23	Inj : 31-AUG-2004 16:48	Inj : 31-AUG-2004 16:52
Units : mg/Kg		

MSS: 1.29 g --> 50.0 ml = 38.76 ml/g PDF
MS: 1.43 g --> 50.0 ml = 34.97 ml/g PDF
MSD: 1.29 g --> 50.0 ml = 38.76 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***									
Antimony	1.314	77.52	39.51	55	44.96	56	16-120	3	31	u
Arsenic	2.407	38.76	32.48	86	37.44	90	62-120	5	25	u
Barium	87.21	77.52	140.2	76	156.2	89	51-137	6	20	u
Beryllium	0.4380	1.938	1.923	85	2.155	89	70-120	3	20	u
Cadmium	ND	7.752	5.804	83	6.667	86	61-120	4	20	u
Calcium	2291	775.2	2690	57	2873	75	40-149	4	20	
Chromium	128.7	77.52	180.4	74	193.8	84	60-120	3	20	u
Cobalt	8.488	19.38	22.13	78	25.39	87	56-120	7	20	u
Copper	16.28	9.690	23.81	86	25.16	92	47-144	2	20	u
Iron	*** usable MSS data not found ***									
Lead	4.186	77.52	62.59	84	70.54	86	47-126	2	28	u
Magnesium	*** usable MSS data not found ***									
Manganese	117.4	19.38	124.8	42	145.3	144	62-131	14	20	:
Molybdenum	0.3519	15.50	11.05	76	13.22	83	57-120	8	20	u
Nickel	146.9	19.38	154.9	46	162.8	82	41-138	4	22	: u
Selenium	ND	38.76	26.99	77	33.22	86	35-122	10	27	u
Silver	ND	7.752	6.119	88	6.977	90	71-120	3	20	u
Thallium	ND	38.76	29.90	86	33.88	87	53-120	2	23	u
Vanadium	50.78	19.38	63.64	74	66.67	82	48-136	2	20	u
Zinc	33.41	19.38	46.85	77	50.00	86	38-144	3	20	u
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful u=use
Page 1 of 1

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74351792113	Seqnum	: 74351792114
Filename	: tr246796	Filename	: tr246797
IDF	: 1.0	IDF	: 1.0
Run type	: MS	Run type	: MSD
Samplenum	: QC263070	Samplenum	: QC263071
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94198	Batchnum	: 94198
Inj	: 31-AUG-2004 17:07	Inj	: 31-AUG-2004 17:11
Units	: mg/Kg		

MSS : 174320-006

MS: 1.04 g --> 50.0 ml = 48.08 ml/g PDF
MSD: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	MSS Seqnum	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***										
Antimony	74351792110	0.6569	100.0	57.69	59	62.50	62	16-120	4	31	u
Arsenic	74351792110	2.931	50.00	49.52	97	53.00	100	62-120	3	25	u
Barium	74351792110	13.33	100.0	105.3	96	111.5	98	51-137	2	20	u
Beryllium	74351792110	0.1642	2.500	2.438	95	2.590	97	70-120	2	20	u
Cadmium	74351792110	ND	10.00	8.990	94	9.650	97	61-120	3	20	u
Calcium	74351792110	2514	1000	3639	117	3650	114	40-149	1	20	
Chromium	74351792110	26.27	100.0	116.3	94	124.0	98	60-120	3	20	u
Cobalt	74351792110	3.436	25.00	25.53	92	27.25	95	56-120	3	20	u
Copper	74351792110	2.564	12.50	14.57	100	15.25	101	47-144	1	20	u
Iron	*** usable MSS data not found ***										
Lead	74351792110	1.466	100.0	90.87	93	97.50	96	47-126	3	28	u
Magnesium	74351792110	1738	1000	2739	104	2849	111	44-152	3	20	
Manganese	74351792110	95.10	25.00	121.2	108	123.5	114	62-131	1	20	
Molybdenum	74351792110	0.4642	20.00	17.16	87	18.90	92	57-120	6	20	u
Nickel	74351792110	18.19	25.00	40.96	95	43.60	102	41-138	4	22	u
Selenium	74351792111	ND	50.00	43.37	90	48.95	98	35-122	8	27	u
Silver	74351792110	ND	10.00	8.798	92	9.450	95	71-120	3	20	u
Thallium	74351792110	ND	50.00	45.48	95	48.80	98	53-120	3	23	u
Vanadium	74351792110	26.08	25.00	50.48	102	51.00	100	48-136	1	20	u

u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74351792113	Seqnum	: 74351792114
Filename	: tr246796	Filename	: tr246797
IDF	: 1.0	IDF	: 1.0
Run type	: MS	Run type	: MSD
Samplenum	: QC263070	Samplenum	: QC263071
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94198	Batchnum	: 94198
Inj	: 31-AUG-2004 17:07	Inj	: 31-AUG-2004 17:11
Units	: mg/Kg		

MSS : 174320-006

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Zinc	74351792110	12.11	25.00	34.52 93	36.45 97	38-144	3	20	u
Titanium	*** usable MSS data not found ***								

78

u=use

Method: 6010B Standard: blank
Run Time: 08/31/04 06:54:11

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.007	.005	-.000	.005	-.181	.006	.001
SDev	.006	.002	.000	.002	.001	.002	.001
%RSD	98.1	33.4	76.0	44.0	.726	40.3	60.4
#1	-.002	.004	-.001	.003	-.182	.004	.001
#2	-.011	.006	-.000	.006	-.180	.008	.002

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.002	.008	-.004	.003	.003	-.005
SDev	.001	.001	.006	.005	.001	.003	.000
%RSD	332.	31.1	79.8	126.	20.1	81.3	8.03
#1	-.001	.002	.004	-.000	.003	.001	-.006
#2	.000	.002	.013	-.007	.004	.005	-.005

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.006	.003	-.003	.001	.021	.0460	-.0054
SDev	.001	.003	.000	.001	.000	.0005	.0001
%RSD	23.2	102.	1.12	91.0	.544	1.022	1.187
#1	.007	.001	-.003	.000	.021	.0463	-.0054
#2	.005	.005	-.003	.002	.021	.0456	-.0053

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0015	.0002	.001	.118
SDev	.0001	.0001	.000	.001
%RSD	5.738	56.95	17.0	.843
#1	-.0014	.0001	.002	.118
#2	-.0015	.0003	.001	.119

Method: 6010B Standard: cst hi
Run Time: 08/31/04 06:57:54

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.28	.769	.278	14.5	2.48	1.06	.206
SDev	.01	.001	.004	.0	.00	.00	.001
%RSD	.436	.162	1.41	.148	.115	.053	.314
#1	1.27	.768	.275	14.5	2.48	1.06	.206
#2	1.28	.770	.280	14.5	2.48	1.06	.207

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.683	.437	.784	.824	1.87	1.69	.307
SDev	.001	.001	.003	.000	.07	.00	.017
%RSD	.150	.142	.393	.033	3.68	.143	5.69
#1	.682	.438	.782	.824	1.82	1.68	.294
#2	.684	.437	.786	.823	1.92	1.69	.319

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.338	.247	.197	.757	.175	.1370	.2483
SDev	.035	.000	.001	.001	.000	.0001	.0005
%RSD	10.5	.159	.415	.062	.043	.0685	.1872
#1	.313	.247	.196	.756	.175	.1371	.2480
#2	.363	.247	.197	.757	.175	.1370	.2486

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1017	.1513	.947	5.98
SDev	.0000	.0003	.001	.00
%RSD	.0026	.1810	.069	.061
#1	.1017	.1511	.947	5.98
#2	.1017	.1515	.948	5.98

Standardization Report 08/31/04 07:01:58 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	775.680	5.05348	08/31/04 06:57:54
Sb206A	206.832	Multiple	Standards	1282.67	-5.94151	08/31/04 06:57:54
As1890	189.042	Multiple	Standards	1800.20	.814421	08/31/04 06:57:54
Ba4934	493.409	Multiple	Standards	69.0319	-.319632	08/31/04 06:57:54
Be3130	313.042	Multiple	Standards	36.3208	6.56925	08/31/04 06:57:54
Cd2265	226.502	Multiple	Standards	94.9812	-.558185	08/31/04 06:57:54
Cr2677	267.716	Multiple	Standards	975.638	-1.33898	08/31/04 06:57:54
Co2286	228.616	Multiple	Standards	733.537	.178808	08/31/04 06:57:54
Cu3247	324.754	Multiple	Standards	459.319	-.905562	08/31/04 06:57:54
Pb2203	220.351	Multiple	Standards	645.206	-5.28470	08/31/04 06:57:54
Pb220A	220.352	Multiple	Standards	599.083	2.31228	08/31/04 06:57:54
Mo2020	202.030	Multiple	Standards	535.718	-1.69009	08/31/04 06:57:54
Ni2316	231.604	Multiple	Standards	297.069	-.908227	08/31/04 06:57:54
Se1960	196.021	Multiple	Standards	1603.00	8.71523	08/31/04 06:57:54
Se196A	196.022	Multiple	Standards	1501.02	-8.53844	08/31/04 06:57:54
Ag3280	328.068	Multiple	Standards	409.837	-1.14152	08/31/04 06:57:54
Tl1908	190.864	Multiple	Standards	2521.78	8.20890	08/31/04 06:57:54
V_2924	292.402	Multiple	Standards	661.970	-.897486	08/31/04 06:57:54
Zn2138	213.856	Multiple	Standards	667.783	-13.8248	08/31/04 06:57:54
Al3082	308.215	Multiple	Standards	11186.4	-514.168	08/31/04 06:57:54
Ca3179	317.933	Multiple	Standards	7883.53	42.3165	08/31/04 06:57:54
Fe2714	271.441	Multiple	Standards	10145.3	14.8686	08/31/04 06:57:54
Mg2790	279.079	Multiple	Standards	13230.0	-2.67927	08/31/04 06:57:54
Mn2576	257.610	Multiple	Standards	105.731	-.145551	08/31/04 06:57:54
Pb sum	220.353	NONE	NONE	1.00000	.000000	*08/31/04 06:57:54
Sb sum	206.838	NONE	NONE	1.00000	.000000	*08/31/04 06:57:54
Se sum	196.026	NONE	NONE	1.00000	.000000	*08/31/04 06:57:54
Ti3349	334.941	Multiple	Standards	170.635	-20.2025	08/31/04 06:57:54

Analysis Report 08/31/04 07:15:21 AM page 1

Method: 6010B Sample Name: 04ws1530 Operator: pps
Run Time: 08/31/04 07:12:02
Comment: 94179,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1010.	1010.	509.	1020.	102.	102.	205.
SDev	46.	28.	16.	20.	2.	2.	6.
%RSD	4.49	2.80	3.20	1.95	1.94	2.13	2.95
#1	982.	986.	497.	1000.	101.	101.	201.
#2	1050.	1030.	520.	1030.	104.	104.	210.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	513.	204.	505.	510.	1020.	512.	500.
SDev	13.	5.	13.	16.	72.	13.	42.
%RSD	2.47	2.51	2.59	3.10	7.09	2.47	8.38
#1	504.	200.	496.	499.	967.	503.	470.
#2	522.	208.	514.	521.	1070.	521.	530.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	502.	102.	514.	512.	102.	1027.	2055.
SDev	97.	3.	21.	13.	2.	39.	47.
%RSD	19.3	3.41	4.02	2.52	2.33	3.828	2.271
#1	434.	99.5	499.	502.	101.	999.3	2022.
#2	571.	104.	528.	521.	104.	1055.	2088.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1034.	2057.	103.	508.	1010.	501.	1020.
SDev	29.	53.	2.	15.	34.	79.	26.
%RSD	2.816	2.584	2.41	2.93	3.36	15.7	2.51
#1	1013.	2020.	101.	498.	985.	446.	1010.
#2	1055.	2095.	104.	519.	1030.	557.	1040.

Analysis Report 08/31/04 07:20:06 AM page 1

Method: 6010B Sample Name: 04ws1577 Operator: pps
Run Time: 08/31/04 07:16:22
Comment: 94179,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	507.	490.	245.	499.	49.2	48.2	98.8
SDev	12.	.	3.	7.	.7	.5	1.3
%RSD	2.32	.032	1.09	1.45	1.50	1.12	1.29
#1	515.	490.	247.	504.	49.7	48.6	99.7
#2	498.	490.	243.	494.	48.6	47.8	97.9

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	240.	103.	238.	246.	503.	243.	231.
SDev	3.	1.	2.	6.	5.	4.	13.
%RSD	1.08	1.33	.878	2.42	1.08	1.49	5.56
#1	242.	104.	236.	251.	499.	246.	222.
#2	238.	102.	239.	242.	506.	241.	241.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247.	49.4	239.	245.	49.9	491.5	1019.
SDev	21.	.2	3.	3.	1.0	10.1	14.
%RSD	8.67	.311	1.12	1.27	2.06	2.057	1.420
#1	232.	49.6	241.	248.	50.6	498.7	1029.
#2	262.	49.3	237.	243.	49.2	484.4	1008.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	545.3	996.8	49.3	244.	496.	242.	513.
SDev	12.2	17.6	.8	3.	4.	19.	8.
%RSD	2.231	1.766	1.63	1.35	.769	7.68	1.51
#1	553.9	1009.	49.9	246.	498.	229.	518.
#2	536.7	984.4	48.8	241.	493.	255.	507.

Analysis Report 08/31/04 07:28:43 AM page 1

Method: 6010B Sample Name: icb Operator: pps
Run Time: 08/31/04 07:24:15
Comment: 94179,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.09	-1.19	3.37	-.105	-.382	-.259	-.794
SDev	.24	.72	1.05	.034	.023	.032	.009
%RSD	5.97	60.1	31.3	32.5	5.89	12.3	1.17
#1	4.26	-.687	2.62	-.081	-.366	-.281	-.800
#2	3.91	-1.70	4.11	-.129	-.398	-.236	-.787

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.332	.112	-2.44	1.90	6.37	-.607	-2.65
SDev	.144	.021	.46	.88	.52	.203	.20
%RSD	43.3	18.8	18.9	46.1	8.19	33.5	7.56
#1	-.231	.127	-2.76	1.28	6.74	-.751	-2.79
#2	-.434	.098	-2.11	2.52	6.00	-.463	-2.51

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.97	-1.37	1.44	-.660	-.552	-30.75	8.431
SDev	1.12	.04	.76	.016	.010	2.41	.506
%RSD	37.7	2.84	53.0	2.41	1.74	7.834	6.007
#1	3.76	-1.40	1.97	-.649	-.545	-29.05	8.789
#2	2.18	-1.35	.898	-.672	-.558	-32.45	8.073

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.4076	-.4485	-.019	.456	.566	1.10	-.286
SDev	6.136	2.6026	.041	.738	.560	.68	.019
%RSD	1506.	580.2	211.	162.	99.0	62.0	6.69
#1	4.747	1.392	.009	-.066	.962	1.58	-.273
#2	-3.931	-2.289	-.048	.978	.170	.616	-.300

Method: 6010B Sample Name: 04ws1488 Operator: pps
Run Time: 08/31/04 07:36:47
Comment: 94179,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	63.7	55.3	6.14	9.76	2.01	4.46	8.91
SDev	2.2	1.5	.85	.29	.01	.09	.01
%RSD	3.49	2.73	13.9	3.00	.629	1.96	.131
#1	65.3	54.2	5.53	9.55	2.00	4.39	8.92
#2	62.1	56.4	6.74	9.96	2.02	4.52	8.90

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18.5	10.8	-2.40	4.93	19.1	18.5	1.49
SDev	.0	.3	3.31	1.64	1.6	.2	1.01
%RSD	.209	2.40	138.	33.2	8.18	1.12	68.0
#1	18.5	11.0	-4.74	6.09	18.0	18.4	.775
#2	18.4	10.6	-.062	3.77	20.2	18.6	2.21

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.01	4.63	4.27	9.73	17.5	96.95	213.2
SDev	3.75	.84	.88	.45	.8	9.92	5.2
%RSD	74.7	18.2	20.6	4.61	4.46	10.24	2.444
#1	7.66	5.22	4.89	10.1	16.9	89.93	209.5
#2	2.37	4.03	3.65	9.42	18.0	104.0	216.9

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	116.6	195.8	9.63	2.49	58.1	3.84	-.721
SDev	16.9	.8	.24	.01	.3	2.16	.244
%RSD	14.45	.3915	2.49	.457	.460	56.2	33.8
#1	128.5	196.4	9.46	2.48	57.9	5.37	-.549
#2	104.7	195.3	9.80	2.49	58.3	2.31	-.893

Analysis Report 08/31/04 07:57:26 AM page 1

Method: 6010B Sample Name: 04ws1124 Operator: pps
Run Time: 08/31/04 07:50:27
Comment: 94179,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.0	-3.01	2.40	.373	-.861	-.550	1.90
SDev	.2	.94	1.98	.074	.233	.184	.21
%RSD	1.54	31.3	82.2	19.8	27.0	33.5	11.1
#1	15.1	-2.34	1.01	.321	-.696	-.420	1.75
#2	14.8	-3.67	3.80	.426	-1.03	-.680	2.05

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.089	-4.06	-36.7	22.7	-1.42	1.29	-11.9
SDev	.107	.34	2.6	1.9	1.24	.05	.2
%RSD	121.	8.44	7.14	8.15	87.5	4.00	1.90
#1	-.165	-3.81	-38.5	24.0	-2.29	1.33	-12.0
#2	-.013	-4.30	-34.8	21.4	-.540	1.26	-11.7

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.10	-1.68	3.34	-6.33	-1.42	533800.	448400.
SDev	.24	.20	3.18	.23	.26	17771.	14739.
%RSD	5.85	12.0	95.2	3.56	18.1	3.329	3.287
#1	-4.27	-1.54	5.59	-6.49	-1.60	521200.	438000.
#2	-3.93	-1.82	1.09	-6.17	-1.24	546400.	458800.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	182000.	513500.	2.32	2.90	2.98	-6.69	22.5
SDev	6013.	16951.	.08	.36	.70	.24	1.2
%RSD	3.305	3.301	3.64	12.4	23.6	3.51	5.44
#1	177700.	501500.	2.26	3.16	3.48	-6.86	21.6
#2	186200.	525500.	2.38	2.65	2.48	-6.53	23.4

Method: 6010B Sample Name: 04ws1256 Operator: pps
Run Time: 08/31/04 07:57:58
Comment: 94179,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	539.	524.	488.	491.	495.	859.	467.
SDev	15.	4.	20.	12.	13.	22.	13.
%RSD	2.78	.739	4.18	2.42	2.65	2.55	2.87
#1	528.	522.	474.	483.	486.	844.	458.
#2	550.	527.	503.	500.	504.	875.	477.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	463.	549.	905.	954.	476.	875.	488.
SDev	13.	22.	11.	18.	36.	23.	33.
%RSD	2.74	3.92	1.23	1.84	7.46	2.63	6.85
#1	454.	534.	897.	942.	451.	858.	464.
#2	472.	564.	912.	967.	501.	891.	512.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	469.	927.	472.	482.	974.	549000.	465400.
SDev	79.	21.	22.	14.	25.	19882.	18487.
%RSD	16.9	2.25	4.66	2.90	2.57	3.622	3.972
#1	412.	912.	456.	472.	956.	534900.	452300.
#2	525.	942.	487.	492.	992.	563100.	478500.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	186000.	527000.	477.	938.	529.	475.	22600.
SDev	5754.	17336.	17.	15.	8.	64.	620.
%RSD	3.093	3.290	3.53	1.65	1.43	13.5	2.74
#1	181900.	514700.	465.	927.	524.	430.	22200.
#2	190100.	539200.	489.	949.	535.	520.	23000.

Analysis Report 08/31/04 08:36:16 AM page 1

Method: 6010B Sample Name: 04ws1578 Operator: pps
Run Time: 08/31/04 08:33:09
Comment: 94197,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494.	481.	252.	490.	50.7	45.4	100.
SDev	5.	1.	4.	1.	.2	.1	.
%RSD	1.09	.265	1.72	.187	.303	.200	.115
#1	490.	482.	255.	490.	50.6	45.3	100.
#2	498.	480.	249.	489.	50.8	45.4	100.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	242.	108.	246.	241.	499.	238.	262.
SDev	1.	.	2.	1.	17.	.	5.
%RSD	.215	.195	.708	.249	3.39	.165	2.01
#1	241.	109.	247.	240.	487.	238.	258.
#2	242.	108.	244.	241.	511.	238.	265.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	262.	51.7	226.	252.	50.2	539.6	1420.
SDev	16.	.7	2.	.	.1	14.5	69.
%RSD	6.12	1.43	.918	.137	.141	2.693	4.870
#1	251.	51.2	225.	252.	50.3	549.8	1469.
#2	273.	52.2	228.	253.	50.2	529.3	1371.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1146.	1014.	62.0	242.	486.	262.	529.
SDev	168.	3.	2.7	.	1.	12.	1.
%RSD	14.64	.2660	4.28	.075	.196	4.75	.222
#1	1264.	1016.	63.9	242.	485.	253.	530.
#2	1027.	1012.	60.2	242.	486.	271.	528.

Analysis Report 08/31/04 08:39:52 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 08/31/04 08:36:45
Comment: 94197,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.88	-.969	10.3	.194	-.479	-.051	-.460
SDev	1.60	.533	1.0	.119	.020	.142	.010
%RSD	20.4	55.0	9.61	61.5	4.26	281.	2.09
#1	9.01	-.592	11.0	.279	-.465	.050	-.454
#2	6.74	-1.35	9.64	.110	-.493	-.151	-.467

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.101	1.82	4.10	-.588	10.5	-.402	10.2
SDev	.051	.08	.42	.011	3.5	.060	1.3
%RSD	50.4	4.41	10.2	1.85	33.3	15.0	12.7
#1	-.065	1.88	4.39	-.580	13.0	-.360	11.1
#2	-.138	1.77	3.80	-.596	8.06	-.445	9.27

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.5	-1.34	2.34	-.535	-.193	-9.115	155.6
SDev	3.1	.19	1.04	.124	.143	2.901	31.3
%RSD	18.6	14.0	44.5	23.1	74.3	31.83	20.10
#1	18.6	-1.21	1.60	-.447	-.092	-7.064	177.8
#2	14.3	-1.47	3.07	-.622	-.294	-11.17	133.5

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246.7	9.059	4.66	.974	1.98	14.4	2.55
SDev	60.0	1.086	1.15	.146	.89	2.5	.55
%RSD	24.32	11.99	24.7	15.0	45.0	17.2	21.7
#1	289.2	9.827	5.47	1.08	2.61	16.1	2.95
#2	204.3	8.291	3.84	.871	1.35	12.6	2.16

Analysis Report 08/31/04 09:13:32 AM page 1

Method: 6010B Sample Name: 04ws1319 Operator: pps
Run Time: 08/31/04 09:10:25
Comment: 94197,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	739.	717.	343.	720.	76.4	66.7	149.
SDev	5.	6.	6.	6.	.6	.5	1.
%RSD	.672	.897	1.66	.820	.746	.811	.959
#1	735.	712.	339.	716.	76.0	66.3	148.
#2	742.	721.	347.	725.	76.8	67.1	150.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	362.	159.	365.	359.	724.	352.	348.
SDev	3.	1.	1.	1.	41.	3.	25.
%RSD	.761	.926	.359	.257	5.61	.784	7.04
#1	360.	158.	364.	359.	695.	350.	331.
#2	364.	160.	366.	360.	753.	354.	366.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	327.	76.9	332.	376.	71.7	814.6	1667.
SDev	49.	.5	6.	3.	.7	13.7	1.
%RSD	15.0	.588	1.79	.826	.921	1.688	.0880
#1	293.	76.5	328.	374.	71.2	824.3	1669.
#2	362.	77.2	337.	379.	72.2	804.8	1666.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	903.6	1531.	79.6	361.	724.	334.	785.
SDev	24.1	3.	.4	1.	6.	41.	6.
%RSD	2.672	.2214	.457	.292	.820	12.3	.750
#1	920.6	1528.	79.9	360.	720.	305.	781.
#2	886.5	1533.	79.4	362.	728.	363.	789.

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 08/31/04 09:15:39
Comment: 94197,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.44	-4.98	3.69	.370	-1.40	-.208	-.689
SDev	.59	1.03	3.00	.109	.03	.065	.029
%RSD	13.3	20.7	81.3	29.5	2.24	31.2	4.13
#1	4.86	-5.70	5.81	.447	-1.43	-.162	-.710
#2	4.03	-4.25	1.57	.293	-1.38	-.254	-.669

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.325	2.02	3.18	-1.41	6.27	-.152	1.58
SDev	.127	.45	1.35	1.11	1.60	.275	2.00
%RSD	39.2	22.4	42.6	78.5	25.5	181.	127.
#1	-.235	2.34	2.22	-.627	7.40	.043	.161
#2	-.415	1.70	4.13	-2.19	5.14	-.346	3.00

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.10	-1.41	-.700	-.623	2.23	58.26	59.64
SDev	3.78	.10	2.294	.062	.42	9.73	1.69
%RSD	53.3	7.31	328.	9.94	18.6	16.70	2.828
#1	9.77	-1.49	.922	-.666	2.53	65.14	60.83
#2	4.42	-1.34	-2.32	-.579	1.94	51.38	58.44

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	62.20	21.41	1.76	.119	-1.84	5.26	4.31
SDev	12.71	5.03	.25	.287	.49	1.85	.43
%RSD	20.43	23.49	13.9	240.	26.7	35.2	10.0
#1	71.19	24.96	1.94	.322	-2.18	6.57	4.62
#2	53.21	17.85	1.59	-.083	-1.49	3.95	4.00

Analysis Report 08/31/04 10:08:56 AM

Method: 6010B Sample Name: 04ws1578 Operator: pps
Run Time: 08/31/04 10:05:29
Comment: 94197,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	500.	492.	246.	485.	48.8	49.1	99.5
SDev	3.	2.	2.	.	.1	.2	.3
%RSD	.677	.379	.639	.035	.258	.366	.267
#1	502.	490.	245.	485.	48.9	49.0	99.7
#2	497.	493.	247.	485.	48.7	49.2	99.3

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	240.	101.	247.	248.	489.	245.	238.
SDev	.	.	2.	2.	13.	.	11.
%RSD	.134	.289	.991	.649	2.71	.053	4.57
#1	241.	101.	245.	250.	480.	245.	230.
#2	240.	101.	249.	247.	499.	245.	245.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	243.	48.3	237.	243.	51.9	608.8	1110.
SDev	19.	.1	2.	.	.3	27.6	20.
%RSD	7.88	.291	.869	.171	.613	4.538	1.803
#1	230.	48.2	238.	243.	52.1	628.3	1125.
#2	257.	48.4	235.	242.	51.7	589.2	1096.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	693.5	1055.	53.2	248.	494.	241.	511.
SDev	39.7	15.	1.1	.	.	16.	1.
%RSD	5.724	1.392	1.99	.105	.023	6.79	.183
#1	721.6	1066.	54.0	248.	494.	230.	511.
#2	665.5	1045.	52.5	248.	494.	253.	510.

Analysis Report 08/31/04 10:14:19 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 08/31/04 10:10:25
Comment: 94197,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.23	-3.95	3.07	.228	-.923	-.285	-.547
SDev	.24	1.12	1.99	.055	.031	.052	.016
%RSD	5.77	28.3	65.0	24.0	3.33	18.1	2.97
#1	4.06	-4.74	1.66	.266	-.901	-.249	-.536
#2	4.40	-3.16	4.48	.189	-.945	-.322	-.559

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.460	1.36	3.83	-1.45	5.15	-.157	.974
SDev	.138	.06	.25	.43	1.43	.007	3.28
%RSD	30.1	4.24	6.55	29.2	27.7	4.23	336.
#1	-.558	1.40	4.01	-1.75	6.16	-.152	-1.34
#2	-.362	1.31	3.65	-1.15	4.14	-.162	3.29

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.62	-1.29	1.12	-.471	1.10	28.05	42.31
SDev	1.79	.04	.82	.139	.04	3.33	4.97
%RSD	38.6	3.41	73.3	29.5	4.04	11.88	11.76
#1	5.89	-1.32	1.70	-.569	1.13	30.40	45.83
#2	3.36	-1.26	.538	-.373	1.07	25.69	38.79

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	35.32	14.54	.966	.308	-1.22	3.41	3.03
SDev	11.74	2.32	.202	.200	.83	.10	.23
%RSD	33.25	15.97	20.9	64.9	67.4	2.91	7.69
#1	43.62	16.19	1.11	.167	-1.81	3.48	3.19
#2	27.01	12.90	.823	.449	-.641	3.34	2.86

Analysis Report 08/31/04 11:34:41 AM

Method: 6010B Sample Name: 04ws1578 Operator: pps
Run Time: 08/31/04 11:31:24
Comment: 94199,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	491.	481.	245.	471.	46.9	47.7	95.9
SDev	4.	3.	1.	5.	.5	.4	1.2
%RSD	.866	.559	.241	1.07	1.01	.779	1.28
#1	494.	483.	245.	475.	47.3	48.0	96.8
#2	488.	480.	244.	468.	46.6	47.4	95.0

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	231.	96.2	238.	240.	481.	238.	239.
SDev	3.	1.1	1.	4.	2.	3.	1.
%RSD	1.22	1.12	.256	1.72	.473	1.17	.256
#1	233.	96.9	239.	243.	480.	240.	239.
#2	229.	95.4	238.	237.	483.	236.	239.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	254.	46.1	236.	232.	49.3	489.4	971.0
SDev	4.	.5	.	3.	.6	12.5	14.1
%RSD	1.73	1.01	.167	1.14	1.25	2.556	1.450
#1	251.	46.5	235.	234.	49.7	498.2	981.0
#2	257.	45.8	236.	230.	48.8	480.6	961.0

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	567.7	1080.	46.9	239.	485.	249.	489.
SDev	18.3	34.	.8	3.	3.	3.	5.
%RSD	3.229	3.188	1.67	1.23	.662	1.10	1.09
#1	580.7	1104.	47.4	241.	487.	247.	493.
#2	554.8	1056.	46.3	237.	482.	251.	486.

Analysis Report 08/31/04 11:41:16 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 08/31/04 11:35:26
Comment: 94199,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.85	-1.54	2.28	.111	-.523	-.087	-.391
SDev	.65	1.66	2.26	.033	.039	.018	.062
%RSD	9.42	108.	98.8	30.1	7.38	20.1	16.0
#1	7.31	-2.71	3.88	.134	-.496	-.075	-.346
#2	6.40	-.359	.688	.087	-.550	-.100	-.435

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.155	.967	2.89	-1.31	8.15	-.011	.843
SDev	.128	.041	1.97	.91	3.01	.168	.083
%RSD	82.7	4.24	68.4	69.5	36.9	1540.	9.85
#1	-.064	.938	1.49	-.668	10.3	-.130	.902
#2	-.245	.996	4.28	-1.96	6.02	.108	.785

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.76	-1.25	-.432	-.347	.964	28.58	22.64
SDev	2.97	.15	2.140	.142	.002	.58	.86
%RSD	107.	12.4	495.	41.0	.214	2.014	3.777
#1	4.86	-1.35	1.08	-.448	.966	28.17	23.24
#2	.664	-1.14	-1.95	-.247	.963	28.99	22.03

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	29.15	52.43	.455	.086	1.26	2.12	2.33
SDev	5.36	14.06	.109	.049	.89	2.00	.12
%RSD	18.39	26.81	24.0	57.3	71.0	94.5	5.35
#1	32.94	62.37	.533	.051	.628	3.54	2.42
#2	25.36	42.49	.378	.121	1.89	.704	2.24

Method: 6010B Sample Name: 04ws1319 Operator: pps
Run Time: 08/31/04 12:24:09
Comment: 94199,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	738.	737.	366.	726.	71.5	73.8	146.
SDev	22.	12.	17.	22.	1.9	1.9	4.
%RSD	2.94	1.63	4.62	3.09	2.60	2.57	2.74
#1	723.	728.	354.	710.	70.2	72.4	143.
#2	753.	745.	378.	742.	72.8	75.1	149.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	352.	144.	360.	368.	709.	366.	339.
SDev	10.	4.	6.	7.	55.	10.	27.
%RSD	2.89	2.65	1.58	2.00	7.78	2.77	7.97
#1	345.	141.	356.	362.	670.	359.	320.
#2	359.	147.	364.	373.	748.	373.	358.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	340.	70.7	359.	352.	73.2	751.7	1396.
SDev	67.	2.2	15.	10.	2.4	17.8	28.
%RSD	19.6	3.18	4.10	2.82	3.25	2.369	2.013
#1	293.	69.1	348.	345.	71.6	739.1	1376.
#2	387.	72.3	369.	359.	74.9	764.3	1416.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	845.8	1505.	69.9	365.	737.	340.	751.
SDev	4.6	29.	1.5	7.	15.	53.	22.
%RSD	.5487	1.921	2.18	1.86	2.07	15.7	2.89
#1	849.1	1484.	68.8	360.	726.	302.	736.
#2	842.6	1525.	70.9	370.	748.	377.	767.

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 08/31/04 12:37:21
Comment: 94199,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.89	-4.26	-1.72	-.052	.029	-.249	-.703
SDev	1.11	.26	.98	.022	.006	.001	.009
%RSD	22.8	6.00	56.8	41.8	20.3	.492	1.25
#1	4.10	-4.44	-1.03	-.036	.024	-.249	-.697
#2	5.68	-4.08	-2.42	-.067	.033	-.248	-.709

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.261	.353	4.31	-.973	3.03	-.304	-2.40
SDev	.049	.098	.66	.583	.70	.018	.50
%RSD	18.7	27.9	15.4	59.9	23.2	5.92	20.7
#1	-.227	.283	3.84	-1.39	3.52	-.317	-2.75
#2	-.296	.422	4.78	-.561	2.53	-.291	-2.05

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.71	-1.40	1.90	-.678	.981	23.52	12.77
SDev	1.65	.05	2.15	.006	.027	.74	1.82
%RSD	35.1	3.47	114.	.925	2.78	3.144	14.23
#1	-3.54	-1.36	3.42	-.673	.962	24.05	14.05
#2	-5.88	-1.43	.373	-.682	1.00	23.00	11.48

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.15	7.717	.117	.787	-1.21	-3.94	2.30
SDev	.84	.377	.010	.610	.54	.94	.01
%RSD	6.357	4.880	8.88	77.5	44.8	23.8	.446
#1	13.74	7.450	.124	.356	-1.59	-3.28	2.29
#2	12.56	7.983	.110	1.22	-.826	-4.60	2.31

Analysis Report 08/31/04 01:36:11 PM page 1

Method: 6010B Sample Name: 04ws1319 Operator: mw
Run Time: 08/31/04 13:29:26
Comment: 94199,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	738.	739.	367.	735.	69.0	74.2	142.
SDev	5.	5.	2.	1.	.1	.5	.
%RSD	.735	.610	.618	.116	.083	.610	.271
#1	734.	736.	365.	736.	69.0	73.9	142.
#2	741.	742.	369.	735.	69.1	74.5	142.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	342.	140.	349.	363.	718.	363.	346.
SDev	.	.	1.	2.	16.	.	11.
%RSD	.037	.080	.324	.513	2.16	.074	3.25
#1	342.	140.	349.	362.	707.	363.	338.
#2	342.	139.	350.	365.	729.	364.	354.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	378.	68.6	362.	341.	72.1	687.7	1284.
SDev	21.	.1	1.	.	.1	1.2	1.
%RSD	5.47	.144	.141	.025	.080	.1754	.0754
#1	364.	68.6	362.	341.	72.1	688.6	1284.
#2	393.	68.7	362.	341.	72.2	686.9	1285.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	698.3	1408.	65.2	359.	738.	368.	735.
SDev	4.6	4.	.0	2.	5.	18.	.
%RSD	.6573	.2909	.054	.452	.652	4.78	.008
#1	695.1	1405.	65.2	358.	735.	355.	735.
#2	701.6	1411.	65.2	360.	742.	380.	735.

Method: 6010B Sample Name: ccb Operator: mw
Run Time: 08/31/04 13:39:24
Comment: 94199,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.65	-3.59	-.426	.056	.589	-.337	-.669
SDev	2.48	2.01	.867	.019	.053	.046	.043
%RSD	32.4	56.1	204.	34.6	8.93	13.7	6.40
#1	9.41	-2.17	.188	.070	.626	-.304	-.638
#2	5.90	-5.02	-1.04	.043	.552	-.369	-.699

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.638	-.219	2.38	-.590	7.21	-.315	-2.02
SDev	.100	.035	.43	.002	.73	.124	1.22
%RSD	15.7	15.9	18.2	.295	10.1	39.4	60.1
#1	-.708	-.243	2.07	-.592	7.73	-.403	-1.16
#2	-.567	-.194	2.68	-.589	6.70	-.227	-2.88

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.36	-1.21	3.87	-.580	.944	40.66	6.501
SDev	2.67	.07	1.09	.204	.009	4.73	4.764
%RSD	196.	5.44	28.1	35.2	.934	11.63	73.29
#1	.527	-1.17	3.10	-.725	.938	37.32	9.869
#2	-3.25	-1.26	4.64	-.436	.950	44.01	3.132

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.644	7.808	.109	.398	.156	-1.58	2.24
SDev	4.608	.429	.019	.145	2.17	2.19	.04
%RSD	53.31	5.490	17.2	36.5	1390.	138.	1.81
#1	11.90	8.111	.122	.296	1.69	-.037	2.27
#2	5.386	7.505	.096	.501	-1.38	-3.13	2.21

Analysis Report 08/31/04 02:41:28 PM page 1

Method: 6010B Sample Name: 04ws1317 Operator: mw
Run Time: 08/31/04 14:33:52
Comment: 94201,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	484.	486.	241.	489.	49.8	49.2	99.0
SDev	12.	6.	5.	8.	.7	.5	1.6
%RSD	2.39	1.22	2.15	1.65	1.50	1.10	1.65
#1	475.	481.	237.	483.	49.3	48.9	97.9
#2	492.	490.	244.	494.	50.4	49.6	100.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	241.	101.	248.	246.	482.	246.	234.
SDev	4.	2.	3.	4.	15.	5.	10.
%RSD	1.70	1.85	1.39	1.69	3.14	1.92	4.27
#1	238.	99.4	246.	243.	471.	243.	227.
#2	244.	102.	251.	249.	492.	249.	241.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	231.	48.7	237.	244.	51.1	522.2	1022.
SDev	14.	.8	.	4.	.9	13.9	11.
%RSD	5.97	1.61	.171	1.68	1.85	2.668	1.041
#1	221.	48.1	237.	241.	50.4	512.3	1014.
#2	240.	49.2	237.	247.	51.7	532.0	1029.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	550.5	1018.	49.3	247.	485.	232.	508.
SDev	11.8	14.	.8	4.	8.	12.	9.
%RSD	2.141	1.329	1.62	1.59	1.61	5.40	1.78
#1	542.2	1008.	48.7	244.	479.	223.	501.
#2	558.9	1027.	49.9	250.	490.	241.	514.

Method: 6010B Sample Name: ccb Operator: mw
Run Time: 08/31/04 14:42:31
Comment: 94201,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.55	-1.15	1.63	.235	1.19	-.218	-.456
SDev	2.46	.43	2.10	.099	.01	.042	.157
%RSD	28.7	37.3	129.	42.3	.789	19.0	34.4
#1	10.3	-1.45	3.11	.305	1.20	-.248	-.567
#2	6.82	-.845	.147	.165	1.18	-.189	-.345

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.197	-.738	3.67	-.963	18.5	-.399	1.89
SDev	.010	.228	.15	1.065	5.5	.070	.03
%RSD	5.18	30.9	4.17	111.	29.9	17.6	1.78
#1	-.204	-.577	3.78	-.210	22.3	-.349	1.91
#2	-.190	-.900	3.56	-1.72	14.6	-.449	1.87

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.04	-1.32	3.09	-.549	1.39	57.94	-2.784
SDev	6.11	.26	.86	.104	.10	3.48	1.871
%RSD	151.	19.9	27.9	19.0	6.92	5.998	67.21
#1	8.36	-1.13	3.69	-.475	1.45	60.40	-4.107
#2	-.285	-1.50	2.48	-.623	1.32	55.48	-1.461

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.283	7.810	.086	.582	2.09	3.32	3.34
SDev	.256	1.827	.040	.761	.53	4.09	.46
%RSD	4.837	23.40	46.1	131.	25.6	123.	13.7
#1	5.464	9.102	.114	1.12	2.46	6.21	3.66
#2	5.102	6.518	.058	.044	1.71	.432	3.02

Analysis Report 08/31/04 03:36:07 PM page 1

Method: 6010B Sample Name: 04ws1319 Operator: mw
Run Time: 08/31/04 15:32:58
Comment: 94201,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	767.	777.	383.	759.	76.2	76.7	153.
SDev	15.	8.	11.	18.	1.6	1.8	3.
%RSD	1.90	.985	2.86	2.37	2.05	2.37	2.19
#1	756.	772.	375.	746.	75.1	75.4	151.
#2	777.	783.	390.	771.	77.3	78.0	156.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	373.	155.	378.	376.	768.	381.	374.
SDev	9.	4.	6.	7.	34.	9.	14.
%RSD	2.31	2.26	1.71	1.75	4.46	2.36	3.87
#1	366.	153.	374.	372.	744.	375.	363.
#2	379.	158.	383.	381.	792.	388.	384.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	365.	76.0	375.	377.	76.2	780.2	1503.
SDev	38.	1.9	12.	8.	1.9	22.1	35.
%RSD	10.5	2.54	3.32	2.20	2.53	2.833	2.314
#1	338.	74.7	366.	371.	74.8	764.5	1478.
#2	392.	77.4	384.	382.	77.5	795.8	1527.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	785.0	1541.	75.0	377.	774.	368.	788.
SDev	18.4	33.	1.6	7.	10.	30.	18.
%RSD	2.347	2.128	2.11	1.73	1.29	8.24	2.26
#1	772.0	1518.	73.9	372.	767.	346.	775.
#2	798.0	1564.	76.1	382.	781.	389.	800.

Analysis Report 08/31/04 03:42:15 PM page 1

Method: 6010B Sample Name: ccb Operator: mw
Run Time: 08/31/04 15:38:45
Comment: 94201,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.03	-1.05	-.107	.054	.033	-.202	-.613
SDev	.65	.44	.465	.038	.011	.083	.160
%RSD	10.7	42.1	433.	70.1	32.0	41.1	26.1
#1	6.49	-.740	-.437	.081	.025	-.143	-.727
#2	5.57	-1.37	.222	.027	.040	-.261	-.500

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.321	-1.12	3.32	-.505	9.30	-.216	-3.70
SDev	.096	.07	1.70	1.351	2.11	.011	1.00
%RSD	30.0	6.03	51.2	268.	22.6	4.95	26.9
#1	-.389	-1.17	2.12	.450	10.8	-.223	-3.00
#2	-.253	-1.07	4.52	-1.46	7.81	-.208	-4.41

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.86	-1.40	-.067	-.672	1.29	66.47	-5.531
SDev	1.22	.04	1.287	.232	.02	2.26	3.261
%RSD	42.5	3.10	1920.	34.5	1.43	3.399	58.97
#1	-2.00	-1.37	.843	-.837	1.28	64.87	-3.225
#2	-3.72	-1.43	-.977	-.508	1.30	68.06	-7.837

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.714	8.791	.121	.768	1.31	-3.14	2.86
SDev	.858	.432	.005	.335	.51	1.14	.05
%RSD	9.840	4.914	4.33	43.6	39.1	36.4	1.80
#1	9.321	8.486	.118	1.01	1.67	-2.34	2.90
#2	8.108	9.097	.125	.531	.946	-3.95	2.83

ıalysis Report

Operator: mw

ethod: 6010B Sample Name: qc263064
ın Time: 08/31/04 16:09:03
omment: 94198,1
ode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.11	-2.43	-2.65	.197	-.063	-.152	.558
SDev	.47	.98	.08	.049	.274	.190	.274
%RSD	15.2	40.1	3.21	25.1	437.	125.	49.1
#1	3.45	-3.12	-2.71	.232	-.257	-.018	.752
#2	2.78	-1.74	-2.59	.162	.131	-.286	.365

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.360	-1.22	7.32	-1.72	.748	.547	-6.93
SDev	.263	.11	.14	.32	.656	.093	.54
%RSD	73.0	9.14	1.92	18.9	87.7	17.0	7.84
#1	-.174	-1.14	7.22	-1.95	1.21	.613	-7.32
#2	-.546	-1.29	7.42	-1.49	.284	.481	-6.55

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.83	-.928	-1.33	-.465	3.74	113.4	68.65
SDev	.97	.087	2.29	.033	.62	24.1	2.96
%RSD	25.2	9.33	172.	7.16	16.5	21.28	4.311
#1	-4.52	-.867	.284	-.488	4.18	130.5	70.74
#2	-3.15	-.990	-2.95	-.441	3.31	96.34	66.56

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	116.4	49.23	1.92	1.29	-.585	-4.87	3.05
SDev	10.2	10.25	.10	.26	.494	.82	.82
%RSD	8.763	20.82	5.43	20.4	84.4	17.0	26.8
#1	123.6	56.48	1.99	1.11	-.934	-5.45	3.63
#2	109.2	41.98	1.84	1.48	-.236	-4.28	2.47

Method: 6010B Sample Name: qc264066 Operator: mw
Run Time: 08/31/04 16:16:40
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2010.	2090.	1040.	2000.	50.1	201.	1950.
SDev	28.	2.	12.	3.	.1	.	5.
%RSD	1.37	.078	1.17	.163	.212	.170	.255
#1	1990.	2090.	1030.	2000.	50.0	201.	1950.
#2	2030.	2090.	1050.	2000.	50.2	201.	1960.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	485.	251.	1980.	1980.	398.	494.	1020.
SDev	1.	.	2.	17.	11.	1.	21.
%RSD	.227	.040	.100	.854	2.78	.256	2.02
#1	484.	251.	1980.	1970.	390.	493.	1010.
#2	486.	252.	1990.	1990.	406.	495.	1040.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1010.	201.	997.	494.	486.	18730.	19190.
SDev	85.	.	8.	1.	1.	22.	63.
%RSD	8.46	.175	.769	.139	.298	.1177	.3275
#1	948.	201.	991.	493.	485.	18710.	19150.
#2	1070.	201.	1000.	494.	488.	18740.	19240.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19340.	19840.	477.	1980.	2060.	1010.	1030.
SDev	66.	65.	1.	12.	10.	64.	1.
%RSD	.3397	.3292	.225	.602	.498	6.30	.074
#1	19290.	19800.	476.	1970.	2060.	967.	1030.
#2	19380.	19890.	477.	1990.	2070.	1060.	1030.

Analysis Report 08/31/04 04:16:13 PM page 1

Method: 6010B Sample Name: ~~qc263065~~ Operator: mw
Run Time: 08/31/04 16:12:52 QC264065 MW 8/31/04
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1980.	2050.	1020.	1980.	49.6	198.	1930.
SDev	42.	26.	30.	28.	.8	3.	33.
%RSD	2.15	1.28	2.96	1.41	1.62	1.68	1.73
#1	1950.	2030.	994.	1960.	49.0	196.	1910.
#2	2010.	2070.	1040.	2000.	50.1	201.	1960.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	479.	249.	1960.	1960.	373.	488.	967.
SDev	8.	4.	23.	33.	27.	7.	65.
%RSD	1.58	1.52	1.16	1.70	7.13	1.50	6.72
#1	474.	246.	1950.	1940.	354.	483.	921.
#2	485.	252.	1980.	1990.	392.	493.	1010.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	913.	199.	985.	488.	482.	18540.	18990.
SDev	175.	3.	22.	8.	8.	302.	325.
%RSD	19.2	1.39	2.20	1.56	1.62	1.630	1.709
#1	789.	197.	970.	483.	476.	18320.	18760.
#2	1040.	201.	1000.	494.	487.	18750.	19220.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19150.	19620.	472.	1960.	2030.	931.	1020.
SDev	331.	322.	7.	30.	32.	138.	17.
%RSD	1.730	1.640	1.59	1.52	1.56	14.9	1.66
#1	18920.	19400.	467.	1940.	2000.	833.	1010.
#2	19380.	19850.	477.	1990.	2050.	1030.	1030.

Method: 6010B Sample Name: 174320-002 Operator: mw
Run Time: 08/31/04 16:23:30
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	32.4	34.7	62.1	2250.	11.3	-3.01	3320.
SDev	17.4	9.9	5.5	12.	.3	.52	7.
%RSD	53.7	28.6	8.92	.528	3.00	17.4	.219
#1	44.8	27.7	58.1	2240.	11.1	-3.38	3320.
#2	20.1	41.7	66.0	2260.	11.6	-2.64	3330.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	219.	420.	128.	97.2	9.08	3790.	-20.4
SDev	1.	1.	6.	8.6	.93	14.	19.1
%RSD	.539	.202	4.63	8.85	10.2	.359	93.9
#1	218.	419.	124.	103.	8.42	3780.	-33.9
#2	219.	421.	133.	91.1	9.74	3800.	-6.85

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.09	-4.87	-13.7	1310.	862.	414700.	59100.
SDev	11.27	.17	2.5	7.	2.	302.	75.
%RSD	185.	3.41	18.3	.521	.268	.0728	.1277
#1	1.87	-4.75	-11.9	1300.	860.	414500.	59050.
#2	-14.1	-4.99	-15.5	1310.	864.	414900.	59160.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	604600.	171100.	3030.	108.	33.9	-10.9	21200.
SDev	993.	337.	5.	4.	.8	1.1	40.
%RSD	.1642	.1971	.181	3.49	2.34	10.5	.188
#1	603900.	170900.	3030.	110.	33.4	-10.1	21200.
#2	605300.	171400.	3040.	105.	34.5	-11.7	21200.

Method: 6010B Sample Name: 04ws1318 Operator: mw
Run Time: 08/31/04 16:32:08
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	258.	254.	125.	244.	24.5	25.1	48.9
SDev	.	1.	.	2.	.2	.4	.4
%RSD	.152	.481	.312	.689	.645	1.62	.726
#1	258.	254.	126.	245.	24.6	25.4	49.1
#2	259.	253.	125.	243.	24.4	24.8	48.6

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	120.	48.8	128.	124.	252.	123.	118.
SDev	1.	.2	.	1.	1.	1.	2.
%RSD	.877	.438	.238	.500	.493	1.12	1.92
#1	120.	48.9	128.	123.	253.	124.	120.
#2	119.	48.6	128.	124.	252.	122.	116.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	126.	23.6	123.	120.	25.5	330.2	469.6
SDev	1.	.4	.	1.	.2	10.3	5.4
%RSD	1.07	1.66	.321	.779	.834	3.122	1.141
#1	125.	23.9	123.	121.	25.6	337.4	473.4
#2	127.	23.3	122.	120.	25.3	322.9	465.8

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	309.9	510.8	24.1	125.	255.	123.	257.
SDev	16.0	5.0	.2	.	1.	.	2.
%RSD	5.153	.9750	.913	.249	.267	.117	.954
#1	321.2	514.3	24.2	125.	256.	123.	258.
#2	298.6	507.3	23.9	125.	255.	123.	255.

Method: 6010B Sample Name: ccb Operator: mw
Run Time: 08/31/04 16:36:44
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.74	-1.28	-1.01	.063	.296	-.166	-.447
SDev	2.02	1.52	.69	.052	.005	.046	.201
%RSD	35.3	119.	68.3	83.6	1.65	27.9	44.9
#1	7.17	-2.35	-.520	.099	.293	-.199	-.305
#2	4.31	-.204	-1.49	.026	.300	-.134	-.589

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.529	-1.42	3.71	-1.41	5.57	-.300	-1.73
SDev	.275	.00	2.57	1.34	1.34	.239	1.48
%RSD	52.0	.086	69.4	95.5	24.0	79.7	85.6
#1	-.724	-1.42	1.89	-.457	6.52	-.131	-2.77
#2	-.335	-1.42	5.53	-2.35	4.62	-.469	-.681

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.346	-1.51	.941	-.533	1.41	92.21	-11.86
SDev	4.117	.21	1.57	.059	.05	3.76	.29
%RSD	1190.	13.7	167.	11.1	3.81	4.073	2.411
#1	2.56	-1.66	2.05	-.575	1.45	94.86	-12.07
#2	-3.26	-1.37	-.168	-.491	1.38	89.55	-11.66

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	29.25	14.82	.173	.299	1.06	-.806	3.99
SDev	9.81	3.00	.057	.037	.34	2.252	.21
%RSD	33.53	20.23	32.6	12.5	31.8	279.	5.28
#1	36.19	16.94	.213	.325	.823	.786	4.14
#2	22.32	12.70	.133	.272	1.30	-2.40	3.84

Method: 6010B Sample Name: qc263069 Operator: mw
Run Time: 08/31/04 16:40:31
Comment: 94198,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.5	-1.76	7.91	425.	2.47	-1.83	664.
SDev	1.0	1.36	3.44	8.	.03	.08	15.
%RSD	6.84	77.4	43.4	2.00	1.32	4.48	2.21
#1	13.8	-.798	10.3	431.	2.45	-1.77	674.
#2	15.2	-2.73	5.48	419.	2.50	-1.89	653.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	44.2	77.1	28.6	20.1	2.08	769.	-9.52
SDev	.9	1.7	1.5	.7	.02	17.	.92
%RSD	2.11	2.15	5.15	3.67	1.14	2.17	9.63
#1	44.8	78.2	27.6	20.6	2.06	781.	-10.2
#2	43.5	75.9	29.6	19.6	2.10	757.	-8.87

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.82	-2.13	-.283	256.	172.	79040.	11880.
SDev	.31	.18	.574	6.	4.	1693.	268.
%RSD	17.2	8.46	203.	2.18	2.22	2.142	2.257
#1	-1.60	-2.25	-.689	260.	174.	80230.	12070.
#2	-2.05	-2.00	.123	252.	169.	77840.	11690.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	117500.	33140.	596.	22.9	3.66	-4.39	3760.
SDev	2536.	731.	13.	.0	.58	.10	77.
%RSD	2.159	2.206	2.18	.003	15.8	2.18	2.05
#1	119300.	33660.	605.	22.9	4.07	-4.46	3820.
#2	115700.	32620.	587.	22.9	3.25	-4.32	3710.

Method: 6010B Sample Name: qc263069 Operator: mw
Run Time: 08/31/04 16:44:12
Comment: 94198,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.7	.716	6.93	427.	2.47	-1.78	666.
SDev	3.2	3.14	4.19	37.	.01	.12	57.
%RSD	24.8	439.	60.5	8.54	.289	6.63	8.49
#1	10.5	2.94	9.89	453.	2.46	-1.70	706.
#2	15.0	-1.50	3.96	401.	2.47	-1.86	626.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	44.1	77.0	28.7	19.7	1.28	772.	-11.1
SDev	3.7	6.8	.7	2.2	1.08	65.	.3
%RSD	8.38	8.85	2.34	11.1	84.5	8.44	3.14
#1	46.8	81.8	29.2	21.2	2.04	818.	-10.8
#2	41.5	72.2	28.3	18.1	.515	726.	-11.3

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.44	-2.14	-1.56	256.	172.	79340.	11910.
SDev	.34	.26	1.98	23.	15.	6740.	973.
%RSD	9.75	12.0	127.	9.04	8.59	8.496	8.167
#1	-3.20	-2.32	-.164	273.	183.	84110.	12600.
#2	-3.67	-1.96	-2.96	240.	162.	74570.	11230.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	118000.	33270.	598.	22.7	4.72	-5.99	3780.
SDev	9878.	2737.	49.	1.7	1.04	.34	319.
%RSD	8.372	8.228	8.23	7.41	22.0	5.67	8.42
#1	125000.	35200.	633.	23.9	5.46	-5.75	4010.
#2	111000.	31330.	563.	21.5	3.99	-6.23	3560.

Method: 6010B Sample Name: qc263067 Operator: mw
Run Time: 08/31/04 16:48:12
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1090.	1150.	929.	4010.	55.0	166.	5160.
SDev	41.	3.	16.	18.	.1	.	21.
%RSD	3.73	.257	1.69	.437	.114	.128	.400
#1	1060.	1150.	918.	3990.	55.0	166.	5140.
#2	1120.	1150.	940.	4020.	55.1	166.	5170.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	633.	681.	1810.	1780.	316.	4430.	793.
SDev	2.	2.	4.	31.	15.	15.	31.
%RSD	.343	.285	.214	1.74	4.74	.334	3.93
#1	631.	680.	1810.	1760.	305.	4420.	771.
#2	634.	683.	1810.	1800.	327.	4440.	815.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	762.	175.	855.	1820.	1340.	493100.	76940.
SDev	150.	1.	13.	5.	7.	2061.	282.
%RSD	19.7	.297	1.51	.282	.552	.4181	.3660
#1	655.	176.	845.	1820.	1330.	491600.	76750.
#2	868.	175.	864.	1830.	1340.	494500.	77140.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	655900.	200900.	3570.	1790.	1130.	772.	25800.
SDev	2884.	914.	13.	19.	12.	111.	149.
%RSD	.4397	.4548	.373	1.08	1.03	14.3	.578
#1	653900.	200300.	3560.	1780.	1120.	694.	25700.
#2	658000.	201500.	3570.	1800.	1140.	850.	25900.

Method: 6010B Sample Name: qc263068 Operator: mw
Run Time: 08/31/04 16:52:01
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1090.	1200.	966.	4030.	55.6	172.	5000.
SDev	58.	14.	1.	51.	.2	1.	59.
%RSD	5.36	1.17	.083	1.27	.343	.584	1.18
#1	1130.	1190.	966.	4060.	55.8	172.	5040.
#2	1050.	1210.	965.	3990.	55.5	171.	4960.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	655.	649.	1870.	1790.	341.	4200.	879.
SDev	7.	9.	4.	60.	4.	40.	32.
%RSD	1.05	1.43	.234	3.34	1.25	.963	3.67
#1	660.	655.	1860.	1830.	338.	4230.	856.
#2	650.	642.	1870.	1750.	344.	4180.	901.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	846.	180.	874.	1720.	1290.	465900.	74120.
SDev	5.	2.	22.	17.	15.	7280.	887.
%RSD	.593	.845	2.56	.976	1.15	1.562	1.197
#1	843.	181.	889.	1730.	1300.	471100.	74750.
#2	850.	179.	858.	1710.	1280.	460800.	73490.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	611300.	189200.	3750.	1820.	1160.	857.	24200.
SDev	7620.	2106.	47.	38.	10.	14.	347.
%RSD	1.247	1.113	1.27	2.12	.862	1.64	1.43
#1	616600.	190700.	3790.	1840.	1170.	847.	24400.
#2	605900.	187700.	3720.	1790.	1160.	867.	23900.

Method: 6010B Sample Name: 174320-006 Operator: mw
Run Time: 08/31/04 16:56:03
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	23.5	8.30	59.8	272.	3.35	-2.09	536.
SDev	1.1	1.34	.6	1.	.02	.00	3.
%RSD	4.71	16.1	.995	.547	.478	.119	.489
#1	22.7	9.24	60.2	271.	3.33	-2.09	535.
#2	24.2	7.35	59.3	273.	3.36	-2.10	538.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	70.1	52.3	38.9	25.4	9.47	371.	3.79
SDev	.2	.2	1.5	.6	2.71	2.	10.9
%RSD	.334	.407	3.87	2.40	28.7	.420	289.
#1	70.0	52.1	40.0	24.9	11.4	370.	11.5
#2	70.3	52.4	37.9	25.8	7.55	373.	-3.95

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.8	-3.51	-3.77	532.	247.	88900.	51280.
SDev	11.2	.60	.89	2.	1.	445.	209.
%RSD	49.3	17.2	23.6	.376	.587	.5005	.4077
#1	30.7	-3.08	-3.14	531.	246.	88590.	51140.
#2	14.8	-3.94	-4.40	534.	248.	89210.	51430.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	186400.	35460.	1940.	29.9	13.4	16.5	11500.
SDev	984.	154.	9.	.1	.5	11.1	72.
%RSD	.5280	.4355	.471	.323	3.93	67.7	.632
#1	185700.	35350.	1930.	29.9	13.7	24.3	11400.
#2	187100.	35570.	1940.	29.8	13.0	8.58	11500.

Method: 6010B Sample Name: 174320-006 Operator: mw
Run Time: 08/31/04 17:00:18
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.4	4.64	51.1	269.	3.31	-2.05	530.
SDev	.7	1.14	1.9	2.	.03	.05	4.
%RSD	4.11	24.6	3.71	.885	.970	2.20	.839
#1	16.9	5.45	52.4	271.	3.29	-2.08	533.
#2	17.9	3.84	49.7	267.	3.33	-2.02	527.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	69.5	51.5	39.5	24.1	3.79	367.	-13.7
SDev	.6	.7	.3	.1	.42	3.	4.1
%RSD	.833	1.30	.811	.595	11.0	.779	29.9
#1	70.0	51.9	39.8	24.2	4.08	369.	-10.8
#2	69.1	51.0	39.3	24.0	3.49	365.	-16.6

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.21	-3.34	-3.03	526.	245.	87820.	50680.
SDev	.10	.37	.48	5.	2.	584.	412.
%RSD	2.01	11.1	15.9	.880	.795	.6648	.8135
#1	5.13	-3.08	-3.37	530.	246.	88230.	50970.
#2	5.28	-3.60	-2.69	523.	243.	87410.	50390.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	184400.	35080.	1920.	29.3	8.89	-1.10	11300.
SDev	1246.	264.	15.	.2	.52	1.30	77.
%RSD	.6756	.7529	.804	.692	5.89	118.	.681
#1	185200.	35270.	1930.	29.4	9.26	-.186	11400.
#2	183500.	34890.	1910.	29.1	8.52	-2.02	11300.

Analysis Report 08/31/04 05:07:08 PM page 1

Method: 6010B Sample Name: ~~qc263184~~ SOR MW 8/31/04 Operator: mw
Run Time: 08/31/04 17:04:01 QC263183
Comment: 94198,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.59	-2.91	8.96	52.5	1.01	-.461	105.
SDev	2.84	1.33	.14	.8	.03	.110	1.
%RSD	43.1	45.6	1.53	1.44	3.12	23.9	.829
#1	8.60	-3.85	8.86	53.0	.987	-.539	106.
#2	4.58	-1.97	9.06	51.9	1.03	-.383	105.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.0	8.38	11.8	2.54	1.44	73.3	-4.33
SDev	.1	.17	2.3	.55	.04	.4	1.18
%RSD	.642	1.99	19.2	21.7	2.52	.584	27.3
#1	14.0	8.27	10.2	2.92	1.41	73.6	-5.16
#2	13.9	8.50	13.4	2.15	1.46	73.0	-3.49

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.35	-1.35	.030	103.	49.3	16710.	10120.
SDev	1.06	.89	2.19	1.	.7	261.	126.
%RSD	78.1	66.0	7390.	1.07	1.44	1.564	1.246
#1	-.605	-1.98	1.57	104.	49.8	16890.	10210.
#2	-2.10	-.719	-1.52	102.	48.8	16520.	10030.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	36420.	6927.	378.	5.63	.256	-2.34	2120.
SDev	487.	89.	5.	.39	.063	.31	29.
%RSD	1.338	1.286	1.42	6.96	24.5	13.2	1.39
#1	36770.	6990.	382.	5.36	.300	-2.12	2140.
#2	36080.	6864.	374.	5.91	.212	-2.56	2090.

Method: 6010B Sample Name: qc263070 Operator: mw
Run Time: 08/31/04 17:07:40
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1160.	1220.	1030.	2190.	50.7	187.	2420.
SDev	33.	3.	18.	2.	.1	1.	8.
%RSD	2.87	.220	1.76	.112	.131	.316	.344
#1	1130.	1210.	1020.	2190.	50.7	187.	2410.
#2	1180.	1220.	1050.	2190.	50.8	188.	2430.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	531.	303.	1900.	1880.	357.	852.	929.
SDev	2.	1.	2.	35.	18.	2.	36.
%RSD	.352	.221	.091	1.84	4.92	.255	3.92
#1	530.	303.	1900.	1850.	345.	851.	903.
#2	532.	304.	1900.	1900.	369.	854.	955.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	888.	183.	946.	1050.	718.	120800.	75700.
SDev	153.	1.	11.	2.	3.	240.	334.
%RSD	17.2	.398	1.17	.189	.413	.1989	.4411
#1	780.	183.	938.	1040.	716.	120700.	75460.
#2	996.	184.	954.	1050.	720.	121000.	75940.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	215900.	56970.	2520.	1890.	1200.	902.	14200.
SDev	796.	264.	8.	24.	13.	114.	59.
%RSD	.3688	.4637	.333	1.25	1.07	12.6	.415
#1	215300.	56790.	2510.	1870.	1190.	821.	14100.
#2	216400.	57160.	2530.	1900.	1210.	983.	14200.

Method: 6010B Sample Name: qc263071 Operator: mw
Run Time: 08/31/04 17:11:29
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1220.	1270.	1060.	2230.	51.8	193.	2480.
SDev	15.	7.	10.	.	.1	.	5.
%RSD	1.20	.514	.971	.014	.186	.038	.210
#1	1210.	1270.	1060.	2230.	51.7	193.	2480.
#2	1230.	1270.	1070.	2230.	51.8	193.	2490.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	545.	305.	1950.	1940.	378.	872.	972.
SDev	1.	.	4.	14.	11.	1.	20.
%RSD	.230	.125	.196	.718	3.02	.119	2.08
#1	544.	304.	1950.	1930.	370.	871.	958.
#2	546.	305.	1950.	1950.	386.	873.	986.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	982.	189.	976.	1020.	729.	117000.	72990.
SDev	85.	.	2.	2.	2.	280.	205.
%RSD	8.61	.010	.180	.185	.246	.2391	.2806
#1	922.	189.	975.	1010.	728.	116800.	72850.
#2	1040.	189.	977.	1020.	730.	117200.	73140.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	207100.	56970.	2470.	1950.	1250.	979.	13300.
SDev	520.	168.	5.	11.	9.	63.	28.
%RSD	.2513	.2949	.198	.544	.736	6.45	.208
#1	206700.	56850.	2470.	1940.	1250.	934.	13300.
#2	207400.	57090.	2480.	1950.	1260.	1020.	13300.

Method: 6010B Sample Name: 174320-001 Operator: mw
Run Time: 08/31/04 17:15:31
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	36.0	16.5	69.9	220.	4.69	-4.10	1230.
SDev	.0	4.7	5.5	.	.05	.01	.
%RSD	.133	28.2	7.87	.182	1.05	.253	.005
#1	36.1	19.8	73.7	220.	4.73	-4.11	1230.
#2	36.0	13.2	66.0	219.	4.66	-4.10	1230.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	119.	63.1	50.2	29.8	17.5	456.	.780
SDev	.	.9	.9	2.9	8.2	.	22.3
%RSD	.302	1.48	1.87	9.70	46.7	.002	2860.
#1	119.	63.8	50.8	27.7	23.3	456.	16.5
#2	119.	62.5	49.5	31.8	11.7	456.	-15.0

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	55.1	-6.64	-5.61	1260.	362.	101000.	72950.
SDev	38.3	.65	.00	1.	1.	21.	33.
%RSD	69.6	9.80	.010	.041	.200	.0203	.0456
#1	82.2	-6.18	-5.61	1270.	361.	101000.	72930.
#2	28.0	-7.10	-5.61	1260.	362.	101100.	72970.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	411900.	42970.	3200.	36.6	23.0	37.0	21300.
SDev	229.	41.	2.	1.6	3.1	33.0	64.
%RSD	.0556	.0945	.058	4.41	13.6	89.2	.300
#1	411800.	42940.	3200.	35.4	25.2	60.3	21300.
#2	412100.	43000.	3210.	37.7	20.8	13.7	21400.

Method: 6010B Sample Name: 04ws1319 Operator: mw
Run Time: 08/31/04 17:20:38
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	752.	767.	381.	740.	72.6	75.6	147.
SDev	8.	2.	6.	2.	.2	.4	.
%RSD	1.02	.318	1.46	.263	.338	.569	.328
#1	747.	768.	377.	738.	72.4	75.3	147.
#2	757.	765.	385.	741.	72.7	75.9	147.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	359.	148.	370.	369.	739.	372.	368.
SDev	.	1.	1.	3.	15.	1.	9.
%RSD	.125	.426	.144	.794	2.07	.232	2.33
#1	359.	147.	370.	367.	728.	371.	362.
#2	360.	148.	371.	371.	750.	372.	374.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	381.	72.3	363.	360.	74.4	774.0	1420.
SDev	13.	.2	1.	2.	.2	1.5	1.
%RSD	3.34	.307	.307	.449	.266	.1952	.1001
#1	372.	72.2	362.	359.	74.3	775.1	1421.
#2	390.	72.5	364.	361.	74.5	772.9	1419.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	860.5	1488.	71.8	369.	762.	377.	762.
SDev	17.2	3.	.0	2.	1.	11.	.
%RSD	2.000	.2144	.054	.577	.123	3.01	.023
#1	872.7	1486.	71.7	368.	761.	369.	762.
#2	848.3	1490.	71.8	371.	762.	385.	762.

Method: 6010B Sample Name: ccb Operator: mw
Run Time: 08/31/04 17:28:46
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.99	-2.11	1.000	-.003	.584	-.267	-.585
SDev	1.14	1.31	1.040	.012	.012	.106	.126
%RSD	16.3	62.0	104.	381.	2.08	39.8	21.5
#1	7.80	-3.04	1.74	.005	.575	-.342	-.674
#2	6.18	-1.19	.264	-.011	.592	-.192	-.496

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.446	-1.85	4.33	-1.19	3.71	-.567	-3.31
SDev	.027	.10	.12	.82	.87	.206	2.24
%RSD	6.11	5.48	2.82	68.9	23.4	36.3	67.7
#1	-.465	-1.78	4.42	-.611	4.32	-.713	-1.73
#2	-.427	-1.92	4.24	-1.77	3.09	-.422	-4.90

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.649	-1.68	2.22	-.713	1.47	84.78	-11.27
SDev	2.945	.03	.80	.006	.10	4.23	1.25
%RSD	454.	1.55	35.9	.797	6.56	4.992	11.07
#1	-2.73	-1.66	2.79	-.717	1.54	87.78	-10.39
#2	1.43	-1.70	1.66	-.709	1.40	81.79	-12.15

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.76	7.393	.190	.649	.920	-1.54	4.51
SDev	3.21	.740	.038	.588	.494	1.22	.43
%RSD	16.25	10.02	19.8	90.7	53.7	79.2	9.58
#1	22.03	7.916	.216	1.06	.570	-2.40	4.81
#2	17.49	6.869	.163	.233	1.27	-.676	4.20

Method: 6010B Sample Name: 174320-001 Operator: mw
Run Time: 08/31/04 17:33:08
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	29.3	9.21	59.3	219.	4.85	-4.06	1230.
SDev	6.7	3.04	.7	3.	.31	.16	20.
%RSD	22.8	33.0	1.21	1.49	6.40	3.89	1.61
#1	24.6	11.4	58.8	217.	5.07	-3.94	1210.
#2	34.1	7.06	59.8	222.	4.63	-4.17	1240.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	118.	62.8	48.0	29.5	4.25	453.	-26.1
SDev	2.	.6	1.4	2.9	.85	6.	6.0
%RSD	1.47	1.01	2.89	9.78	20.0	1.41	23.1
#1	116.	62.4	49.0	27.5	4.85	449.	-21.9
#2	119.	63.3	47.0	31.6	3.65	458.	-30.4

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-1.49	-6.92	-8.04	1260.	365.	100100.	72300.
SDev	2.80	.38	1.27	14.	11.	1720.	1177.
%RSD	188.	5.43	15.8	1.14	3.06	1.718	1.628
#1	-3.47	-7.19	-8.94	1250.	357.	98910.	71470.
#2	.491	-6.66	-7.14	1270.	372.	101300.	73140.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	408700.	42650.	3180.	35.7	15.9	-9.71	21100.
SDev	6365.	643.	47.	1.5	.2	.14	322.
%RSD	1.557	1.508	1.49	4.10	1.28	1.46	1.52
#1	404200.	42200.	3140.	34.7	15.8	-9.61	20900.
#2	413200.	43100.	3210.	36.7	16.1	-9.81	21300.

Method: 6010B Sample Name: 174320-004 Operator: mw
Run Time: 08/31/04 17:36:57
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.1	7.06	62.1	315.	4.80	-2.45	1080.
SDev	2.3	.92	1.0	1.	.01	.00	1.
%RSD	9.31	13.0	1.62	.278	.140	.039	.096
#1	23.5	6.41	61.4	315.	4.81	-2.45	1080.
#2	26.8	7.71	62.9	314.	4.80	-2.45	1080.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	120.	99.3	461.	443.	2.88	507.	-27.2
SDev	.	.7	2.	1.	.33	1.	4.7
%RSD	.273	.665	.386	.298	11.5	.132	17.4
#1	120.	99.8	462.	442.	3.11	507.	-23.8
#2	120.	98.8	459.	444.	2.65	506.	-30.5

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.46	-5.96	-5.52	1040.	1630.	106700.	74700.
SDev	.98	.29	.72	2.	2.	128.	7.
%RSD	39.6	4.86	13.0	.150	.102	.1202	.0099
#1	-3.15	-5.75	-5.01	1040.	1630.	106800.	74710.
#2	-1.77	-6.16	-6.03	1040.	1630.	106600.	74700.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	342100.	47310.	3470.	449.	13.1	-10.7	18700.
SDev	254.	12.	1.	.	1.4	.9	14.
%RSD	.0744	.0263	.036	.064	10.6	8.62	.076
#1	342300.	47320.	3480.	449.	12.1	-10.0	18700.
#2	341900.	47300.	3470.	449.	14.1	-11.4	18700.

Method: 6010B Sample Name: 174320-005 Operator: mw
Run Time: 08/31/04 17:40:45
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21.8	5.80	54.2	357.	4.38	-2.42	1000.
SDev	1.0	3.12	1.2	2.	.00	.08	6.
%RSD	4.58	53.9	2.13	.496	.016	3.24	.628
#1	21.1	8.01	53.4	355.	4.38	-2.36	1000.
#2	22.5	3.59	55.0	358.	4.38	-2.47	1010.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	108.	84.6	187.	169.	3.39	469.	-23.1
SDev	1.	.5	.	5.	.08	2.	.4
%RSD	.852	.641	.104	2.68	2.48	.418	1.57
#1	107.	84.2	187.	165.	3.45	467.	-23.4
#2	108.	84.9	187.	172.	3.33	470.	-22.9

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.43	-5.46	-6.85	965.	579.	91400.	66560.
SDev	1.46	.60	2.85	5.	4.	541.	399.
%RSD	42.5	11.0	41.6	.551	.660	.5920	.6000
#1	-4.46	-5.03	-8.87	961.	576.	91020.	66280.
#2	-2.40	-5.88	-4.84	968.	582.	91780.	66840.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	317200.	43270.	3210.	175.	11.1	-10.0	16900.
SDev	2107.	285.	24.	3.	1.8	1.1	115.
%RSD	.6642	.6580	.741	1.68	15.7	10.9	.680
#1	315700.	43060.	3190.	173.	12.4	-10.8	16800.
#2	318700.	43470.	3220.	177.	9.89	-9.23	17000.

Method: 6010B Sample Name: qc263184 Operator: mw
Run Time: 08/31/04 17:45:11
Comment: 94198,04ss171,0.1/10,04ss172,0.1/10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1760.	1870.	1010.	4110.	55.2	171.	4900.
SDev	108.	53.	2.	2.	.0	.	1.
%RSD	6.15	2.85	.171	.060	.083	.227	.017
#1	1680.	1840.	1010.	4110.	55.1	171.	4900.
#2	1830.	1910.	1010.	4120.	55.2	172.	4900.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	632.	639.	1840.	1840.	355.	4110.	893.
SDev	.	.	3.	4.	8.	.	12.
%RSD	.035	.031	.169	.205	2.17	.001	1.40
#1	632.	639.	1840.	1840.	350.	4110.	884.
#2	632.	640.	1840.	1840.	361.	4110.	902.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	944.	181.	887.	1690.	1280.	415000.	72190.
SDev	43.	.	2.	.	.	3.	54.
%RSD	4.59	.219	.275	.008	.035	.0007	.0746
#1	913.	181.	885.	1690.	1280.	415000.	72150.
#2	975.	181.	889.	1690.	1280.	415000.	72230.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	596800.	183600.	3320.	1840.	1830.	927.	21500.
SDev	139.	119.	2.	1.	72.	33.	14.
%RSD	.0232	.0649	.053	.080	3.91	3.57	.063
#1	596700.	183600.	3320.	1840.	1780.	904.	21500.
#2	596900.	183700.	3320.	1840.	1880.	950.	21500.

Method: 6010B Sample Name: qc263182 Operator: mw
Run Time: 08/31/04 17:48:48
Comment: 94198,04ss171,0.1/10,04ss172,0.1/10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1820.	1950.	1090.	2220.	51.2	192.	2380.
SDev	137.	69.	9.	30.	.5	2.	22.
%RSD	7.49	3.53	.799	1.37	.894	.813	.933
#1	1730.	1900.	1080.	2200.	50.9	191.	2360.
#2	1920.	2000.	1090.	2240.	51.5	193.	2390.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	531.	298.	1940.	1940.	388.	831.	1010.
SDev	5.	4.	11.	20.	9.	8.	7.
%RSD	.984	1.24	.582	1.03	2.27	.937	.742
#1	527.	295.	1930.	1930.	382.	826.	1000.
#2	534.	301.	1940.	1950.	394.	837.	1010.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1050.	192.	979.	985.	714.	104800.	66600.
SDev	31.	2.	16.	9.	8.	1084.	659.
%RSD	2.92	.892	1.66	.949	1.10	1.034	.9898
#1	1030.	191.	968.	978.	709.	104000.	66130.
#2	1070.	193.	990.	992.	720.	105600.	67060.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	197300.	53530.	2310.	1940.	1910.	1040.	12200.
SDev	1818.	533.	24.	17.	91.	23.	127.
%RSD	.9211	.9953	1.05	.878	4.79	2.21	1.04
#1	196100.	53160.	2290.	1930.	1840.	1020.	12100.
#2	198600.	53910.	2330.	1950.	1970.	1050.	12300.

Method: 6010B Sample Name: 04ws1256 Operator: mw
Run Time: 08/31/04 17:55:37
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	547.	579.	542.	501.	470.	945.	462.
SDev	14.	16.	11.	3.	2.	5.	1.
%RSD	2.49	2.79	1.95	.552	.322	.530	.306
#1	557.	568.	534.	499.	469.	941.	461.
#2	537.	591.	549.	503.	471.	948.	463.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	460.	515.	963.	950.	490.	917.	527.
SDev	2.	2.	15.	8.	14.	4.	31.
%RSD	.414	.433	1.51	.826	2.81	.478	5.87
#1	459.	513.	953.	956.	481.	914.	505.
#2	462.	516.	973.	945.	500.	920.	549.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.	879.	504.	472.	1000.	480200.	420300.
SDev	30.	3.	1.	3.	3.	1261.	978.
%RSD	5.93	.306	.259	.545	.323	.2625	.2326
#1	486.	878.	503.	470.	1000.	479300.	419600.
#2	529.	881.	504.	473.	1000.	481100.	421000.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	181800.	517500.	449.	955.	569.	514.	21600.
SDev	573.	1432.	1.	.	6.	30.	81.
%RSD	.3154	.2768	.213	.039	1.09	5.91	.376
#1	181400.	516500.	449.	955.	564.	493.	21600.
#2	182200.	518500.	450.	954.	573.	535.	21700.

Method: 6010B Sample Name: 04ws11317 Operator: mw
Run Time: 08/31/04 18:02:04
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503.	517.	255.	500.	48.5	50.7	97.7
SDev	.	3.	1.	2.	.2	.1	.6
%RSD	.006	.541	.212	.359	.344	.133	.611
#1	503.	515.	255.	501.	48.6	50.6	98.2
#2	503.	519.	255.	498.	48.3	50.7	97.3

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	239.	98.5	252.	245.	494.	248.	247.
SDev	1.	.6	4.	1.	4.	1.	4.
%RSD	.346	.570	1.66	.422	.839	.343	1.55
#1	239.	98.9	255.	246.	491.	249.	250.
#2	238.	98.1	249.	244.	497.	248.	245.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	252.	47.5	243.	239.	51.9	611.5	1008.
SDev	6.	.2	.	1.	.3	29.5	27.
%RSD	2.53	.346	.113	.387	.597	4.832	2.725
#1	247.	47.6	243.	240.	52.1	632.4	1027.
#2	256.	47.4	243.	239.	51.7	590.6	988.5

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	579.0	1054.	47.5	247.	512.	250.	507.
SDev	22.9	33.	.3	2.	2.	3.	3.
%RSD	3.955	3.154	.534	.844	.366	1.19	.673
#1	595.2	1078.	47.6	249.	511.	248.	509.
#2	562.8	1031.	47.3	246.	513.	252.	504.

Method: 6010B Sample Name: ccb Operator: mw
Run Time: 08/31/04 18:06:16
Comment: 94198,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.90	.580	.857	.121	.782	-.130	-.325
SDev	.10	.611	1.76	.051	.014	.135	.101
%RSD	1.12	105.	206.	42.2	1.84	104.	31.0
#1	8.83	.148	-.391	.157	.792	-.034	-.253
#2	8.97	1.01	2.11	.085	.771	-.225	-.396

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.441	-1.69	4.74	-1.31	9.31	-.320	-1.98
SDev	.077	.17	1.99	.75	2.77	.199	2.43
%RSD	17.4	10.3	42.0	57.4	29.8	62.0	123.
#1	-.387	-1.57	6.15	-1.85	11.3	-.180	-.261
#2	-.495	-1.81	3.33	-.780	7.35	-.461	-3.70

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.44	-1.10	.717	-.434	1.75	111.2	4.677
SDev	.97	.34	4.18	.065	.01	4.7	6.027
%RSD	67.3	30.4	583.	15.1	.649	4.254	128.9
#1	.754	-.866	3.68	-.388	1.75	114.5	8.939
#2	2.12	-1.34	-2.24	-.480	1.74	107.8	.4156

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.21	29.17	.121	.705	3.35	.298	5.84
SDev	10.41	7.67	.056	.162	.44	.166	.57
%RSD	51.52	26.30	45.7	22.9	13.1	55.8	9.74
#1	27.57	34.60	.161	.819	3.04	.416	6.25
#2	12.84	23.75	.082	.591	3.66	.181	5.44

MOISTURE DATA

Percent Moisture Summary Report

Batch: 94233
Date: 09/01/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174320-001	15.7365	22.1835	22.1152	99	1
174320-002	11.0019	18.4589	16.9899	80	20
174320-003	10.9923	18.8447	18.2579	93	7
174320-004	11.1530	18.4654	18.2985	98	2
174320-005	15.5536	22.5951	22.3934	97	3
174320-006	11.0824	18.9913	18.9340	99	1
174354-001	15.5452	22.7000	21.7064	86	14
QC263193	11.1624	18.5824	18.4993	99	1
of 174320-001			RPD:	0.1%	5.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 94233
Date Started: 31-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
174320-001		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-002		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-003		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-004		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-005		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-006		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174354-001		Tan Phung Associat	Soil	MOISTURE	01-SEP-2004
QC263193	SDUP of 174320-001		Soil	MOISTURE	

8/31/04

#94233

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	B119	11.0467	—	11.8470	
174320-1	A	10	15.7065	22.1835	22.1152	
DUP 1		3	11.1024	18.5824	18.4993	
2		B113	11.0014	18.4589	16.9899	
3		2	10.9923	18.8447	18.2579	
4		B106	11.1530	18.4654	18.2985	
5		18X	15.5536	22.5951	~~22.3534~~ 22.3934	
6		C1	11.0420	18.9913	18.9348	
174354-1	A	32	15.5452	22.7000	21.7064	

OVEN TEMP: 105°C

TIME IN: 5:30 P.M.

TIME OUT: 10:20 A.M.

ON: 9/1/04

Continued on Page

Read and Understood By

R. Manning — Signed

8/31/04 — Date

9/01/04 — Signed

Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 174320
Polychlorinated Biphenyls (PCBs)

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX118[0.5]	174320-002
BB3EX120[0.5]	174320-004
DUP083004A	174320-005
BB3EX121[0.5]	174320-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/10/04
Operations Manager

Signature: _____ Date: 9/9/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PCBS (EPA 8082)

Laboratory number:	174320
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	08/30/04
Samples Received:	08/30/04

This hardcopy data package contains sample and QC results for four soil samples, requested for the above referenced project on 08/30/04. The samples were received cold and intact.

PCBs (EPA 8082):

Low recovery was observed for Aroclor-1016 in the MS of BB3EX118[0.5] (lab # 174320-002); the LCS was within limits, and this analyte was not detected in the associated samples. High RPD was also observed for Aroclor-1016 in the MS/MSD of BB3EX118[0.5] (lab # 174320-002); this analyte was not detected in the associated samples.

Low surrogate recoveries were observed for decachlorobiphenyl and TCMX in BB3EX118[0.5] (lab # 174320-002) and the MS/MSD of BB3EX118[0.5] (lab # 174320-002), due to matrix interference.

No other analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

174320

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2873.12
Project Manager\Contact: Sigrid Rainis
Samplers: Mike Chambers
Recorder (Signature Required): [signature] (MAC)

Turnaround Time: 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	Metals	SVOCs	Silica gel clean-up	Hold	Remarks	
1 BB3EX117[0.5]	8/30/04	1148		X						X				X					sand
2 BB3EX118[0.5]	↓	1154		X						X		X	X	X				MS\MSD	colma
3 BB3EX119[0.5]		1200		X						X					X				sand
4 BB3EX120[0.5]		1205		X						X		X	X	X					sand
5 DUP083004A	↓	1205		X						X		X	X	X					sand
6 BB3EX121[0.5]	8/30/04	1210		X						X		X	X	X				MS\MSD	sand

Sample Custody Transfer: Bill Dakin, Bill Kaczynski, Levine & Tompkins

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/30/04	1507	Tony Rojas	8/30/04	1507
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 002239

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174320 Date Received: 8/30/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES. enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/30/04
Units:	ug/Kg	Received:	08/30/04
Diln Fac:	1.000	Prepared:	08/30/04
Batch#:	94184		

Field ID:	BB3EX118[0.5]	Moisture:	20%
Type:	SAMPLE	Analyzed:	09/01/04
Lab ID:	174320-002	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	12	2.1
Aroclor-1221	ND	24	12
Aroclor-1232	ND	12	8.4
Aroclor-1242	ND	12	3.1
Aroclor-1248	ND	12	3.1
Aroclor-1254	ND	12	2.5
Aroclor-1260	ND	12	1.6

Surrogate	%REC	Limits
TCMX	20 *	65-135
Decachlorobiphenyl	42 *	65-135

Field ID:	BB3EX120[0.5]	Moisture:	2%
Type:	SAMPLE	Analyzed:	09/01/04
Lab ID:	174320-004	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.9	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	9.9	7.0
Aroclor-1242	ND	9.9	2.7
Aroclor-1248	180	9.9	6.4
Aroclor-1254	ND	9.9	2.1
Aroclor-1260	ND	9.9	1.4

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	92	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/30/04
Units:	ug/Kg	Received:	08/30/04
Diln Fac:	1.000	Prepared:	08/30/04
Batch#:	94184		

Field ID:	DUP083004A	Moisture:	3%
Type:	SAMPLE	Analyzed:	09/01/04
Lab ID:	174320-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.9
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.0
Aroclor-1242	ND	10	2.7
Aroclor-1248	110	10	6.5
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	88	65-135

Field ID:	BB3EX121[0.5]	Moisture:	1%
Type:	SAMPLE	Analyzed:	09/01/04
Lab ID:	174320-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.6
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.1
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	77	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/30/04
Units:	ug/Kg	Received:	08/30/04
Diln Fac:	1.000	Prepared:	08/30/04
Batch#:	94184		

Type:	BLANK	Analyzed:	08/31/04
Lab ID:	QC263002	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	3.2
Aroclor-1221	ND	19	15
Aroclor-1232	ND	9.6	3.2
Aroclor-1242	ND	9.6	4.4
Aroclor-1248	ND	9.6	2.4
Aroclor-1254	ND	9.6	4.3
Aroclor-1260	ND	9.6	3.2

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	78	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC263003	Batch#:	94184
Matrix:	Soil	Prepared:	08/30/04
Units:	ug/Kg	Analyzed:	08/31/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.1	151.1	92	65-135
Aroclor-1260	164.1	174.7	106	65-141

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	81	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	94184
MSS Lab ID:	174301-001	Sampled:	08/27/04
Matrix:	Soil	Received:	08/27/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	as received	Analyzed:	08/31/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC263004

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.800	166.2	199.0	120	58-145
Aroclor-1260	<1.400	166.2	207.4	125	41-163

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	89	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC263005

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.6	198.9	119	58-145	0	27
Aroclor-1260	166.6	209.2	126	41-163	1	41

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	86	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX118[0.5]	Batch#:	94184
MSS Lab ID:	174320-002	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Type: MS Moisture: 20%
Lab ID: QC263072 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.125	209.0	96.22	46 *	58-145
Aroclor-1260	<1.625	209.0	113.6	54	41-163

Surrogate	%REC	Limits
TCMX	32 *	65-135
Decachlorobiphenyl	39 *	65-135

Type: MSD Moisture: 20%
Lab ID: QC263073 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	208.5	142.1	68	58-145	39 *	27
Aroclor-1260	208.5	157.1	75	41-163	32	41

Surrogate	%REC	Limits
TCMX	47 *	65-135
Decachlorobiphenyl	50 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX121[0.5]	Batch#:	94184
MSS Lab ID:	174320-006	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Type:	MS	Moisture:	1%
Lab ID:	QC263074	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.818	164.7	160.2	97	58-145
Aroclor-1260	<1.414	164.7	181.5	110	41-163

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	74	65-135

Type:	MSD	Moisture:	1%
Lab ID:	QC263075	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	169.5	184.7	109	58-145	11	27
Aroclor-1260	169.5	201.9	119	41-163	8	41

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	81	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204350924001 Name: Type: (normal) Date: 30-AUG-2004 16:44 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	243_009	204350924009	pcb10_2	30-AUG-2004 16:44	04WS0970
2	243_010	204350924010	pcb25_5	30-AUG-2004 18:32	04WS0960
3	243_011	204350924011	pcb100_20	30-AUG-2004 19:05	04WS1424
4	243_012	204350924012	pcb250_50	30-AUG-2004 19:38	04WS0962
5	243_013	204350924013	pcb500_100	30-AUG-2004 20:11	04WS1522
6	243_014	204350924014	pcb750_150	30-AUG-2004 20:44	04WS0964
7	243_015	204350924015	pcb1K_200	30-AUG-2004 21:18	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	471.50	423.46	399.27	398.57	393.84	380.09	365.51	AVRG	R		0.002472		pg	404.61	9	.99	20	
Aroclor-1016 Peak # 2	A	772.68	846.80	764.59	734.94	704.17	667.36	643.87	AVRG	R		0.001363		pg	733.49	9	.99	20	
Aroclor-1016 Peak # 3	A	858.56	963.67	822.89	819.97	824.35	801.53	791.50	AVRG	R		0.001190		pg	840.35	7	.99	20	
Aroclor-1016 Peak # 4	A	587.36	634.26	532.03	537.64	529.28	505.43	502.06	AVRG	R		0.001829		pg	546.87	9	.99	20	
Aroclor-1016 Peak # 5	A	509.93	534.79	451.05	451.69	444.19	420.66	419.98	AVRG	R		0.002166		pg	461.76	10	.99	20	
Aroclor-1260 Peak # 1	A	921.55	1001.0	794.09	756.79	727.56	665.30	670.48	AVRG	R		0.001264		pg	790.97	16	.99	20	
Aroclor-1260 Peak # 2	A	1444.6	1514.5	1227.0	1162.5	1126.6	1031.2	1047.9	AVRG	R		8.183E-4		pg	1222.0	15	.99	20	
Aroclor-1260 Peak # 3	A	597.39	738.41	583.41	566.78	551.72	503.19	518.09	AVRG	R		0.001725		pg	579.86	13	.99	20	
Aroclor-1260 Peak # 4	A	588.71	707.05	597.57	594.78	587.32	543.80	566.68	AVRG	R		0.001672		pg	597.99	9	.99	20	
Aroclor-1260 Peak # 5	A	1204.0	1531.7	1243.9	1237.8	1210.3	1118.9	1187.1	AVRG	R		8.015E-4		pg	1247.7	11	.99	20	
TCMX	A	17518	18850	15927	16085	16102	15836	15346	AVRG	R		6.052E-5		pg	16523	7	.99	20	
Decachlorobiphenyl	A	13478	13708	11736	10907	10041	9156.4	9821.3	AVRG	R		8.878E-5		pg	11264	16	.99	20	
Aroclor-1016 Peak # 1	B	585.04	565.14	509.04	505.50	490.14	463.63	446.32	AVRG	R		0.001964		pg	509.26	10	.99	20	
Aroclor-1016 Peak # 2	B	824.70	759.10	677.19	646.21	629.35	574.26	565.36	AVRG	R		0.001497		pg	668.02	14	.99	20	
Aroclor-1016 Peak # 3	B	1818.0	2076.7	1849.8	1774.0	1763.9	1635.8	1639.6	AVRG	R		5.574E-4		pg	1794.0	8	.99	20	
Aroclor-1016 Peak # 4	B	831.51	899.77	839.66	794.64	795.52	729.45	723.94	AVRG	R		0.001247		pg	802.07	8	.99	20	
Aroclor-1016 Peak # 5	B	641.12	660.35	562.46	551.87	556.50	505.49	503.92	AVRG	R		0.001758		pg	568.81	11	.99	20	
Aroclor-1260 Peak # 1	B	1289.5	1463.3	1191.4	1091.6	1068.2	976.26	975.78	AVRG	R		8.689E-4		pg	1150.9	15	.99	20	
Aroclor-1260 Peak # 2	B	1549.8	1596.4	1234.1	1134.9	1093.9	991.25	998.23	AVRG	R		8.141E-4		pg	1228.4	20	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204350924001 Name: Type: (normal) Date: 30-AUG-2004 16:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 *RSD	MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	972.32	895.04	790.13	719.21	693.23	644.49	655.32	AVRG	R		0.001304		pg	767.11	16	.99	20	
Aroclor-1260 Peak # 4	B	929.29	929.02	794.49	749.08	732.73	688.05	712.00	AVRG	R		0.001265		pg	790.67	13	.99	20	
Aroclor-1260 Peak # 5	B	1789.7	1972.6	1611.0	1530.8	1550.1	1457.8	1544.5	AVRG	R		6.110E-4		pg	1636.6	11	.99	20	
TCMX	B	23780	23653	21609	21225	20687	19863	18040	AVRG	R		4.703E-5		pg	21265	10	.99	20	
Decachlorobiphenyl	B	14393	13843	11908	10725	10096	9338.0	10017	AVRG	R		8.715E-5		pg	11474	17	.99	20	

15

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254347030001 Name: Type: (normal) Date: 27-AUG-2004 23:50 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	240_014	254347030014	pcb10_2	27-AUG-2004 23:50	04WS0970
2	240_015	254347030015	pcb25_5	28-AUG-2004 00:19	04WS0960
3	240_016	254347030016	pcb100_20	28-AUG-2004 00:47	04WS1424
4	240_017	254347030017	pcb250_50	28-AUG-2004 01:15	04WS1408
5	240_018	254347030018	pcb500_100	28-AUG-2004 01:44	04WS1522
6	240_019	254347030019	pcb750_150	28-AUG-2004 02:12	04WS0964
7	240_020	254347030020	pcb1K200	28-AUG-2004 02:41	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	60.800	59.936	59.638	56.142	55.037	60.309	57.630	AVRG	R		0.017094		pg	58.499	4	.99	20	
Aroclor-1016 Peak # 2	A	178.00	164.28	162.24	141.25	137.34	155.90	137.30	AVRG	R		0.006504		pg	153.76	10	.99	20	
Aroclor-1016 Peak # 3	A	110.93	101.53	100.48	88.476	86.930	99.853	87.409	AVRG	R		0.010361		pg	96.514	9	.99	20	
Aroclor-1016 Peak # 4	A	83.423	70.142	71.174	62.845	61.989	71.915	62.358	AVRG	R		0.014467		pg	69.121	11	.99	20	
Aroclor-1016 Peak # 5	A	95.311	81.514	80.211	70.396	68.891	78.630	68.661	AVRG	R		0.012877		pg	77.659	12	.99	20	
Aroclor-1260 Peak # 1	A	141.71	143.71	151.05	123.29	118.40	137.14	115.18	AVRG	R		0.007523		pg	132.93	10	.99	20	
Aroclor-1260 Peak # 2	A	254.05	227.26	233.92	187.97	178.83	214.59	174.56	AVRG	R		0.004758		pg	210.17	14	.99	20	
Aroclor-1260 Peak # 3	A	118.40	103.66	111.63	90.231	86.292	103.51	84.875	AVRG	R		0.010020		pg	99.800	13	.99	20	
Aroclor-1260 Peak # 4	A	132.67	121.07	128.46	103.52	98.204	121.83	95.373	AVRG	R		0.008738		pg	114.45	13	.99	20	
Aroclor-1260 Peak # 5	A	295.64	255.88	277.81	214.68	203.06	257.84	197.62	AVRG	R		0.004112		pg	243.22	16	.99	20	
TCMX	A	3311.5	3524.6	3485.2	3078.8	3004.4	3452.6	3139.0	AVRG	R		3.044E-4		pg	3285.2	6	.99	20	
Decachlorobiphenyl	A	2222.1	1917.6	2143.6	1529.9	1586.1	1991.9	1437.6	AVRG	R		5.456E-4		pg	1832.7	17	.99	20	
Aroclor-1016 Peak # 1	B	58.900	67.279	56.484	57.986	57.561	58.528	58.549	AVRG	R		0.016856		pg	59.327	6	.99	20	
Aroclor-1016 Peak # 2	B	102.80	90.700	85.907	84.884	83.191	83.599	82.782	AVRG	R		0.011403		pg	87.695	8	.99	20	
Aroclor-1016 Peak # 3	B	200.02	197.07	179.57	172.91	169.32	172.66	163.12	AVRG	R		0.005579		pg	179.24	8	.99	20	
Aroclor-1016 Peak # 4	B	127.56	123.18	106.37	103.52	103.73	104.61	100.73	AVRG	R		0.009095		pg	109.96	10	.99	20	
Aroclor-1016 Peak # 5	B	87.028	84.850	76.906	76.693	74.522	75.249	74.224	AVRG	R		0.012740		pg	78.496	7	.99	20	
Aroclor-1260 Peak # 1	B	209.75	193.84	176.41	165.48	156.68	159.06	154.00	AVRG	R		0.005760		pg	173.60	12	.99	20	
Aroclor-1260 Peak # 2	B	221.08	205.68	192.60	178.29	167.33	170.17	164.66	AVRG	R		0.005385		pg	185.69	12	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254347030001 Name: Type: (normal) Date: 27-AUG-2004 23:50 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	136.94	131.10	117.00	113.80	107.35	110.36	105.25	AVRG	R		0.008518		pg	117.40	10	.99	20	
Aroclor-1260 Peak # 4	B	137.90	138.63	133.42	129.47	121.13	123.05	119.82	AVRG	R		0.007748		pg	129.06	6	.99	20	
Aroclor-1260 Peak # 5	B	375.15	345.27	311.76	295.07	274.40	287.81	283.59	AVRG	R		0.003221		pg	310.44	12	.99	20	
TCMX	B	3935.1	3949.4	3634.5	3517.0	3410.4	3488.8	3556.1	AVRG	R		-2.746E-4		pg	3641.6	6	.99	20	
Decachlorobiphenyl	B	2998.7	2833.5	2437.1	2262.6	2254.2	2158.1	2212.2	AVRG	R		4.080E-4		pg	2450.9	14	.99	20	

17

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254350716002 Name: Type: (normal) Date: 30-AUG-2004 18:27 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	243_007	254350716007	ar1248	30-AUG-2004 18:27	04WS1542

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1248 Peak # 1	A	65.623	AVRG	R		0.015239		pg	65.623	0	.99	20	
Aroclor-1248 Peak # 2	A	46.884	AVRG	R		0.021329		pg	46.884	0	.99	20	
Aroclor-1248 Peak # 3	A	98.705	AVRG	R		0.010131		pg	98.705	0	.99	20	
Aroclor-1248 Peak # 4	A	57.016	AVRG	R		0.017539		pg	57.016	0	.99	20	
Aroclor-1248 Peak # 5	A	36.728	AVRG	R		0.027227		pg	36.728	0	.99	20	
Aroclor-1248 Peak # 1	B	30.880	AVRG	R		0.032384		pg	30.880	0	.99	20	
Aroclor-1248 Peak # 2	B	110.93	AVRG	R		0.009014		pg	110.93	0	.99	20	
Aroclor-1248 Peak # 3	B	134.92	AVRG	R		0.007412		pg	134.92	0	.99	20	
Aroclor-1248 Peak # 4	B	135.64	AVRG	R		0.007372		pg	135.64	0	.99	20	
Aroclor-1248 Peak # 5	B	53.931	AVRG	R		0.018542		pg	53.931	0	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004			250.00	255.35	pg	2	15	
GC06	B	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004			250.00	252.39	pg	1	15	
GC06	A	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004			500.00	438.20	pg	-12	15	
GC06	B	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004			500.00	443.20	pg	-11	15	
GC22	A	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004			500.00	498.90	pg	0	15	
GC22	B	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004			500.00	562.50	pg	12	15	
GC22	A	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004			250.00	254.91	pg	2	15	
GC22	B	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004			250.00	274.05	pg	10	15	
GC22	A	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004			500.00	502.20	pg	0	15	
GC22	B	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004			500.00	517.06	pg	3	15	

CONTINUING CALIBRATION SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1248

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254350716061	31-AUG-2004 21:09	254350716002	30-AUG-2004			250.00	255.17	pg	2	15	
GC22	B	254350716061	31-AUG-2004 21:09	254350716002	30-AUG-2004			250.00	272.21	pg	9	15	
GC22	A	254350716079	01-SEP-2004 05:39	254350716002	30-AUG-2004			250.00	266.26	pg	7	15	
GC22	B	254350716079	01-SEP-2004 05:39	254350716002	30-AUG-2004			250.00	278.95	pg	12	15	

CONTINUING CALIBRATION SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	OntAmt	Units	%D	Max %D	Flags
GC06	A	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004			250.00	253.61	pg	1	15	
GC06	B	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004			250.00	251.51	pg	1	15	
GC06	A	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004			500.00	441.26	pg	-12	15	
GC06	B	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004			500.00	435.95	pg	-13	15	
GC22	A	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004			500.00	484.28	pg	-3	15	
GC22	B	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004			500.00	471.73	pg	-6	15	
GC22	A	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004			250.00	259.73	pg	4	15	
GC22	B	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004			250.00	274.33	pg	10	15	
GC22	A	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004			500.00	486.09	pg	-3	15	
GC22	B	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004			500.00	502.22	pg	0	15	

CONTINUING CALIBRATION SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004	16523	16744	50.000	50.667	pg	1	15	
GC06	B	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004	21265	22052	50.000	51.850	pg	4	15	
GC06	A	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004	16523	14608	100.00	88.409	pg	-12	15	
GC06	B	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004	21265	19283	100.00	90.679	pg	-9	15	
GC22	A	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004	3285.2	3182.7	100.00	96.881	pg	-3	15	
GC22	B	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004	3641.6	3442.0	100.00	94.518	pg	-5	15	
GC22	A	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004	3285.2	3271.6	50.000	49.793	pg	0	15	
GC22	B	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004	3641.6	3696.0	50.000	50.747	pg	1	15	
GC22	A	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004	3285.2	3283.5	100.00	99.950	pg	0	15	
GC22	B	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004	3641.6	3493.7	100.00	95.940	pg	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004	11264	11119	50.000	49.357	pg	-1	15	
GC06	B	204350924022	31-AUG-2004 01:10	204350924001	30-AUG-2004	11474	11300	50.000	49.243	pg	-2	15	
GC06	A	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004	11264	10085	100.00	89.535	pg	-10	15	
GC06	B	204350924038	31-AUG-2004 10:01	204350924001	30-AUG-2004	11474	10352	100.00	90.225	pg	-10	15	
GC22	A	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004	1832.7	1648.6	100.00	89.954	pg	-10	15	
GC22	B	254350716058	31-AUG-2004 19:44	254347030001	27-AUG-2004	2450.9	2398.7	100.00	97.870	pg	-2	15	
GC22	A	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004	1832.7	1651.8	50.000	45.064	pg	-10	15	
GC22	B	254350716075	01-SEP-2004 03:46	254347030001	27-AUG-2004	2450.9	2668.9	50.000	54.447	pg	9	15	
GC22	A	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004	1832.7	1699.4	100.00	92.730	pg	-7	15	
GC22	B	254350716093	01-SEP-2004 15:41	254347030001	27-AUG-2004	2450.9	2609.2	100.00	106.46	pg	6	15	

SEQUENCE SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254347030 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 27-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
013	240_013	X	hex			27-AUG-2004 23:22	1.0						
014	240_014	ICAL	pcb10_2			27-AUG-2004 23:50	1.0					1	
015	240_015	ICAL	pcb25_5			28-AUG-2004 00:19	1.0					2	
016	240_016	ICAL	pcb100_20			28-AUG-2004 00:47	1.0					3	
017	240_017	ICAL	pcb250_50			28-AUG-2004 01:15	1.0					4	
018	240_018	ICAL	pcb500_100			28-AUG-2004 01:44	1.0					5	
019	240_019	ICAL	pcb750_150			28-AUG-2004 02:12	1.0					6	
020	240_020	ICAL	pcb1K200			28-AUG-2004 02:41	1.0					7	
022	240_022	X	accu_1660			28-AUG-2004 03:37	1.0					8	
023	240_023	ICV	icv			28-AUG-2004 04:06	1.0		1			8	

24

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS1408 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1423

SEQUENCE SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204350924 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
008	243_008	X	hex			30-AUG-2004 16:11	1.0					
009	243_009	ICAL	pcb10_2			30-AUG-2004 16:44	1.0	1.0			1	
010	243_010	ICAL	pcb25_5			30-AUG-2004 18:32	1.0	1.0			2	
011	243_011	ICAL	pcb100_20			30-AUG-2004 19:05	1.0	1.0			3	
012	243_012	ICAL	pcb250_50			30-AUG-2004 19:38	1.0	1.0			4	
013	243_013	ICAL	pcb500_100			30-AUG-2004 20:11	1.0	1.0			5	
014	243_014	ICAL	pcb750_150			30-AUG-2004 20:44	1.0	1.0			6	
015	243_015	ICAL	pcb1K_200			30-AUG-2004 21:18	1.0	1.0			7	
018	243_018	ICV	accu_1660			30-AUG-2004 22:57	1.0				8	
019	243_019	X	icv			30-AUG-2004 23:31	1.0				8	
020	243_020	ICV	accu_1660			31-AUG-2004 00:04	1.0	1.0		1	9	
022	243_022	CCV	pcb250_50			31-AUG-2004 01:10	1.0	1.0		1	9	
023	243_023	X	ccv			31-AUG-2004 01:43	1.0				9	
024	243_024	CCV	ar1254			31-AUG-2004 02:17	1.0				10	
025	243_025	X	ccv			31-AUG-2004 02:50	1.0				10	
027	243_027	BLANK	QC262882	94159	Soil	31-AUG-2004 03:56	1.0	0.6702		1		
028	243_028	LCS	QC262883	94159	Soil	31-AUG-2004 04:29	1.0	0.6627		1		
029	243_029	MS	QC262884	94159	Soil	31-AUG-2004 05:03	1.0	0.6711		1		
030	243_030	MSD	QC262885	94159	Soil	31-AUG-2004 05:36	1.0	0.6671		1		
031	243_031	SAMPLE	174254-001	94159	Soil	31-AUG-2004 06:09	1.0					
032	243_032	BLANK	QC263002	94184	Soil	31-AUG-2004 06:42	1.0	0.6653		1		
033	243_033	LCS	QC263003	94184	Soil	31-AUG-2004 07:15	1.0	0.6566		1		
034	243_034	MS	QC263004	94184	Soil	31-AUG-2004 07:49	1.0	0.6649		1		
035	243_035	MSD	QC263005	94184	Soil	31-AUG-2004 08:22	1.0	0.6662		1		
036	243_036	SAMPLE	174286-001	94184	Soil	31-AUG-2004 08:55	1.0	0.6658		1		
038	243_038	CCV	pcb500_100			31-AUG-2004 10:01	1.0	1.0		1	11	
039	243_039	X	ccv			31-AUG-2004 10:34	1.0				11	
040	243_040	ICAL	ar1254			31-AUG-2004 11:08	1.0	1.0			10	
041	243_041	X	ccv			31-AUG-2004 11:41	1.0				10	
042	243_042	CCV	ar1242			31-AUG-2004 12:14	1.0				12	
043	243_043	SAMPLE	174254-001	94159	Soil	31-AUG-2004 12:47	20.0	0.6623		1		

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS0962 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1609 9=04WS1423 10=04WS1583 11=04WS0963 12=04WS1612

SEQUENCE SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204350924 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
044	243_044	SAMPLE	174158-002	94106	Soil	31-AUG-2004 14:50	1.0	0.6766		1		
045	243_045	SAMPLE	174158-003	94106	Soil	31-AUG-2004 15:23	1.0	0.672		1		
046	243_046	SAMPLE	174158-004	94106	Soil	31-AUG-2004 15:56	1.0	0.657		1		
047	243_047	SAMPLE	174158-005	94106	Soil	31-AUG-2004 16:29	1.0	0.6671		1		
048	243_048	SAMPLE	174158-006	94106	Soil	31-AUG-2004 17:03	1.0					
049	243_049	SAMPLE	174158-017	94159	Soil	31-AUG-2004 17:42	1.0					
050	243_050	SAMPLE	174158-018	94159	Soil	31-AUG-2004 18:15	1.0	0.6575		1		
051	243_051	SAMPLE	174158-019	94159	Soil	31-AUG-2004 18:48	1.0	0.6653		1		
052	243_052	SAMPLE	174158-020	94159	Soil	31-AUG-2004 19:21	1.0	0.6698		1		
054	243_054	CCV	pcb250_50			31-AUG-2004 20:28	1.0	1.0		1	9	
055	243_055	X	ccv			31-AUG-2004 21:01	1.0				9	
056	243_056	X	ar1254			31-AUG-2004 21:34	1.0				10	
057	243_057	CCV	ccv			31-AUG-2004 22:08	1.0	1.0		1	10	
060	243_060	SAMPLE	174158-021	94159	Soil	31-AUG-2004 23:47	1.0	0.6653		1		
061	243_061	SAMPLE	174158-022	94159	Soil	01-SEP-2004 00:20	1.0	0.6623		1		
062	243_062	SAMPLE	174186-001	94106	Soil	01-SEP-2004 00:54	1.0	0.6667		1		
063	243_063	SAMPLE	174186-002	94106	Soil	01-SEP-2004 01:27	1.0	0.6631		1		
064	243_064	SAMPLE	174186-003	94106	Soil	01-SEP-2004 02:00	1.0	0.6658		1		
065	243_065	SAMPLE	174186-004	94106	Soil	01-SEP-2004 02:33	1.0	0.6689		1		
066	243_066	SAMPLE	174186-005	94106	Soil	01-SEP-2004 03:07	1.0	0.6711		1		
067	243_067	SAMPLE	174186-006	94106	Soil	01-SEP-2004 03:40	1.0	0.6614		1		
068	243_068	SAMPLE	174186-007	94106	Soil	01-SEP-2004 04:13	1.0	0.6649		1		
069	243_069	SAMPLE	174186-008	94106	Soil	01-SEP-2004 04:47	1.0	0.6689		1		
071	243_071	CCV	pcb500_100			01-SEP-2004 05:53	1.0	1.0		1	11	
072	243_072	X	ccv			01-SEP-2004 06:26	1.0				11	
073	243_073	CCV	ar1254			01-SEP-2004 07:00	1.0	1.0		1	10	
074	243_074	X	ccv			01-SEP-2004 07:33	1.0				10	
076	243_076	SAMPLE	174186-009	94106	Soil	01-SEP-2004 08:39	1.0	0.6739		1		
077	243_077	SAMPLE	174053-001	93937	Water	01-SEP-2004 09:13	1.0	0.02475		1		
078	243_078	SAMPLE	174053-002	93937	Water	01-SEP-2004 09:46	1.0	0.02451		1		
079	243_079	SAMPLE	174053-003	93937	Water	01-SEP-2004 10:19	1.0	0.025		1		

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS0962 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1609 9=04WS1423 10=04WS1583 11=04WS0963 12=04WS1612

SEQUENCE SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204350924 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
080	243_080	SAMPLE	174053-004	93937	Water	01-SEP-2004 10:53	1.0	0.02475			1		
081	243_081	SAMPLE	174053-005	93937	Water	01-SEP-2004 11:26	1.0	0.025			1		
082	243_082	SAMPLE	174206-011	94159	Soil	01-SEP-2004 11:59	1.0						
083	243_083	SAMPLE	174206-035	94066	Water	01-SEP-2004 12:32	1.0	0.02475			1		
084	243_084	MSS	174206-038	94159	Soil	01-SEP-2004 13:06	1.0	0.6739			1		
085	243_085	SAMPLE	174206-039	94159	Soil	01-SEP-2004 13:39	1.0	0.6636			1		
087	243_087	X	pcb250_50			01-SEP-2004 14:46	1.0					9	
088	243_088	CCV	ccv			01-SEP-2004 15:19	1.0	1.0			1	9	
089	243_089	CCV	ar1254			01-SEP-2004 15:52	1.0	1.0			1	10	
090	243_090	X	ccv			01-SEP-2004 16:26	1.0					10	
092	243_092	SAMPLE	174158-006	94106	Soil	01-SEP-2004 18:16	1.0	0.6702			1		
093	243_093	SAMPLE	174158-017	94159	Soil	01-SEP-2004 18:49	1.0	0.6649			1		
094	243_094	SAMPLE	174206-011	94159	Soil	01-SEP-2004 19:23	1.0	0.6748		1	1		
095	243_095	SAMPLE	174110-009	93957	Soil	01-SEP-2004 19:56	5.0	0.6601			1		
096	243_096	SAMPLE	174204-005	94159	Soil	01-SEP-2004 20:29	20.0	0.6579	1		1		1:PCB126=1663.08
098	243_098	CCV	pcb500_100			01-SEP-2004 21:36	1.0	1.0			1	11	
099	243_099	X	ccv			01-SEP-2004 22:09	1.0					11	
100	243_100	CCV	ar1254			01-SEP-2004 22:42	1.0	1.0			1	10	

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS0962 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1609 9=04WS1423 10=04WS1583 11=04WS0963 12=04WS1612

SEQUENCE SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254350716 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	243_002	X	pcb250_50			30-AUG-2004 13:16	1.0					1	
003	243_003	X	pcb250_50			30-AUG-2004 13:57	1.0					1	
004	243_004	CCV	pcb250_50			30-AUG-2004 14:25	1.0	1.0			1	1	
005	243_005	CCV	ar1254			30-AUG-2004 15:48	1.0	1.0			1	2	
006	243_006	X	ccv			30-AUG-2004 16:16	1.0					2	
007	243_007	CCV	ar1248 – ICAL - 1pt.			30-AUG-2004 18:27	1.0	1.0			1	3	
008	243_008	CCV	ar1242			30-AUG-2004 18:55	1.0	1.0			1	4	
010	243_010	SAMPLE	174122-002	94018	Soil	30-AUG-2004 19:52	1.0	0.6658			1		
011	243_011	SAMPLE	174122-004	94018	Soil	30-AUG-2004 20:20	1.0	0.6761			1		
012	243_012	SAMPLE	174122-005	94018	Soil	30-AUG-2004 20:49	1.0	0.6757			1		
013	243_013	SAMPLE	174122-006	94018	Soil	30-AUG-2004 21:17	1.0	0.6562			1		
014	243_014	SAMPLE	174122-007	94018	Soil	30-AUG-2004 21:45	1.0	0.6676			1		
015	243_015	SAMPLE	174122-008	94018	Soil	30-AUG-2004 22:14	1.0	0.6743			1		
016	243_016	SAMPLE	174122-009	94018	Soil	30-AUG-2004 22:42	1.0	0.6671			1		
017	243_017	SAMPLE	174122-010	94018	Soil	30-AUG-2004 23:10	1.0	0.672			1		
018	243_018	MSS	174154-005	94106	Soil	30-AUG-2004 23:39	5.0	0.6601			1		
019	243_019	SAMPLE	174157-003	94106	Soil	31-AUG-2004 00:07	5.0	0.6689	2		1		2:PCB101=1417.04
021	243_021	CCV	pcb500_100			31-AUG-2004 01:04	1.0	1.0			1	5	
022	243_022	X	ccv			31-AUG-2004 01:32	1.0					5	
023	243_023	CCV	ar1254			31-AUG-2004 02:00	1.0	1.0			1	2	
024	243_024	X	ccv			31-AUG-2004 02:29	1.0					2	
025	243_025	CCV	ar 1248			31-AUG-2004 02:57	1.0	1.0			1	3	
026	243_026	CCV	ar1242			31-AUG-2004 03:25	1.0	1.0			1	4	
028	243_028	BLANK	QC262684	94106	Soil	31-AUG-2004 04:22	1.0	0.6734			1		
029	243_029	LCS	QC262685	94106	Soil	31-AUG-2004 04:50	1.0	0.6658			1		
030	243_030	SAMPLE	174122-003	94106	Soil	31-AUG-2004 05:19	4.0	0.6653			1		
031	243_031	SAMPLE	174122-012	94106	Soil	31-AUG-2004 05:47	10.0	0.6662		2	1		
032	243_032	SAMPLE	174122-013	94106	Soil	31-AUG-2004 06:15	4.0	0.6662			1		
033	243_033	SAMPLE	174122-014	94106	Soil	31-AUG-2004 06:44	5.0	0.6658			1		
034	243_034	MS	QC262686	94106	Soil	31-AUG-2004 07:12	1.0	0.6743	3		1		3:PCB126=2158.18

Stds used: 1=04WS1408 2=04WS1583 3=04WS1542 4=04WS1612 5=04WS0963 6=04WS1423
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254350716 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
035	243_035	MSD	QC262687	94106	Soil	31-AUG-2004 07:40	1.0	0.6693	3		1		3:PCB126=1504.53
036	243_036	SAMPLE	174172-001	94066	Water	31-AUG-2004 08:09	1.0	0.02404			1		
037	243_037	SAMPLE	174158-025	94066	Water	31-AUG-2004 08:37	1.0	0.02475			1		
039	243_039	X	ccv			31-AUG-2004 09:34	1.0	1.0			1	6	
040	243_040	CCV	pcb250_50			31-AUG-2004 10:02	1.0	1.0			1	6	
041	243_041	X	ccv			31-AUG-2004 10:30	1.0					2	
042	243_042	CCV	ar1254			31-AUG-2004 10:59	1.0	1.0			1	2	
043	243_043	CCV	ar 1248			31-AUG-2004 11:27	1.0	1.0			1	3	
044	243_044	CCV	ar1242			31-AUG-2004 11:55	1.0	1.0			1	4	
046	243_046	BLANK	QC262522	94066	Water	31-AUG-2004 12:52	1.0	0.025			1		
047	243_047	BS	QC262523	94066	Water	31-AUG-2004 13:20	1.0	0.025		1	1	spk	
048	243_048	BSD	QC262524	94066	Water	31-AUG-2004 13:49	1.0	0.025		1	1	spk	
049	243_049	SAMPLE	174110-011	93957	Soil	31-AUG-2004 14:17	20.0	0.6734			1		
050	243_050	SAMPLE	174110-012	93957	Soil	31-AUG-2004 14:45	1.0	0.6698			1		
051	243_051	SAMPLE	174110-015	93957	Soil	31-AUG-2004 15:14	1.0	0.6658			1		
052	243_052	SAMPLE	174110-005	94018	Soil	31-AUG-2004 15:42	5.0	0.6748			1		
053	243_053	SAMPLE	174110-007	93957	Soil	31-AUG-2004 16:11	10.0	0.6693		1	1		
054	243_054	SAMPLE	174110-008	93957	Soil	31-AUG-2004 16:39	20.0	0.6653	5		1		9:PCB126=3162.88
055	243_055	SAMPLE	174110-009	93957	Soil	31-AUG-2004 17:07	1.0						
057	243_057	X	ccv			31-AUG-2004 19:16	1.0					5	
058	243_058	CCV	pcb500_100			31-AUG-2004 19:44	1.0	1.0			1	5	
059	243_059	X	ccv			31-AUG-2004 20:13	1.0					2	
060	243_060	CCV	ar1254			31-AUG-2004 20:41	1.0	1.0			1	2	
061	243_061	CCV	ar 1248			31-AUG-2004 21:09	1.0	1.0			1	3	
062	243_062	CCV	ar1242			31-AUG-2004 21:38	1.0	1.0			1	4	
064	243_064	SAMPLE	174206-040	94159	Soil	31-AUG-2004 22:34	1.0	0.6596			1		
065	243_065	SAMPLE	174206-041	94159	Soil	31-AUG-2004 23:03	1.0	0.6631			1		
066	243_066	SAMPLE	174206-042	94159	Soil	31-AUG-2004 23:31	1.0	0.657			1		
067	243_067	SAMPLE	174206-043	94159	Soil	31-AUG-2004 23:59	1.0	0.6588			1		
068	243_068	SAMPLE	174204-005	94159	Soil	01-SEP-2004 00:28	1.0						

Stds used: 1=04WS1408 2=04WS1583 3=04WS1542 4=04WS1612 5=04WS0963 6=04WS1423
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174320 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254350716 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
069	243_069	SAMPLE	174255-001	94159	Soil	01-SEP-2004 00:56	1.0	0.6676			1		
070	243_070	MSS	174301-001	94184	Soil	01-SEP-2004 01:24	1.0	0.6676			1		
071	243_071	MSS	174320-002	94184	Soil	01-SEP-2004 01:53	1.0	0.6618		4	1		
072	243_072	SAMPLE	174320-004	94184	Soil	01-SEP-2004 02:21	1.0	0.6739			1		
073	243_073	SAMPLE	174320-005	94184	Soil	01-SEP-2004 02:49	1.0	0.6711			1		
075	243_075	CCV	pcb250_50			01-SEP-2004 03:46	1.0	1.0			1	6	
076	243_076	X	ccv			01-SEP-2004 04:14	1.0					6	
077	243_077	CCV	ar1254			01-SEP-2004 04:43	1.0	1.0			1	2	
078	243_078	X	ccv			01-SEP-2004 05:11	1.0					2	
079	243_079	CCV	ar 1248			01-SEP-2004 05:39	1.0	1.0			1	3	
080	243_080	CCV	ar1242			01-SEP-2004 06:08	1.0	1.0			1	4	
082	243_082	MSS	174320-006	94184	Soil	01-SEP-2004 07:04	1.0	0.6854			1		
083	243_083	MS	QC263072	94184	Soil	01-SEP-2004 07:33	1.0	0.6689		5	1		
084	243_084	MSD	QC263073	94184	Soil	01-SEP-2004 08:01	1.0	0.6671		5	1		
085	243_085	MS	QC263074	94184	Soil	01-SEP-2004 08:29	1.0	0.6523			1		
086	243_086	MSD	QC263075	94184	Soil	01-SEP-2004 08:58	1.0	0.6711			1		
087	243_087	MS	QC262686	94106	Soil	01-SEP-2004 12:38	5.0	0.6743		2	1		
088	243_088	MSD	QC262687	94106	Soil	01-SEP-2004 13:06	5.0	0.6693		3	1		
090	243_090	MSS Conf.	174320-002	94184	Soil	01-SEP-2004 14:16	1.0	0.6618		4	1	Confirm RA mcw 9/9/04	
092	243_092	X	ccv			01-SEP-2004 15:13	1.0					5	
093	243_093	CCV	pcb500_100			01-SEP-2004 15:41	1.0	1.0			1	5	

Stds used: 1=04WS1408 2=04WS1583 3=04WS1542 4=04WS1612 5=04WS0963 6=04WS1423
Flags used: spk=5% spike rule

Reporting Summary for 174320 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174320-002	Aroclor-1016	GC22	A	09/01/04 01:53
174320-002	Aroclor-1221	GC22	A	09/01/04 01:53
174320-002	Aroclor-1232	GC22	A	09/01/04 01:53
174320-002	Aroclor-1242	GC22	A	09/01/04 01:53
174320-002	Aroclor-1248	GC22	A	09/01/04 01:53
174320-002	Aroclor-1254	GC22	A	09/01/04 01:53
174320-002	Aroclor-1260	GC22	A	09/01/04 01:53
174320-002	TCMX	GC22	A	09/01/04 01:53
174320-002	Decachlorobiphenyl	GC22	A	09/01/04 01:53
174320-004	Aroclor-1016	GC22	A	09/01/04 02:21
174320-004	Aroclor-1221	GC22	A	09/01/04 02:21
174320-004	Aroclor-1232	GC22	A	09/01/04 02:21
174320-004	Aroclor-1242	GC22	A	09/01/04 02:21
174320-004	Aroclor-1248	GC22	B	09/01/04 02:21
174320-004	Aroclor-1254	GC22	A	09/01/04 02:21
174320-004	Aroclor-1260	GC22	A	09/01/04 02:21
174320-004	TCMX	GC22	A	09/01/04 02:21
174320-004	Decachlorobiphenyl	GC22	A	09/01/04 02:21
174320-005	Aroclor-1016	GC22	A	09/01/04 02:49
174320-005	Aroclor-1221	GC22	A	09/01/04 02:49
174320-005	Aroclor-1232	GC22	A	09/01/04 02:49
174320-005	Aroclor-1242	GC22	A	09/01/04 02:49
174320-005	Aroclor-1248	GC22	B	09/01/04 02:49
174320-005	Aroclor-1254	GC22	A	09/01/04 02:49
174320-005	Aroclor-1260	GC22	A	09/01/04 02:49
174320-005	TCMX	GC22	A	09/01/04 02:49
174320-005	Decachlorobiphenyl	GC22	A	09/01/04 02:49
174320-006	Aroclor-1016	GC22	A	09/01/04 07:04
174320-006	Aroclor-1221	GC22	A	09/01/04 07:04
174320-006	Aroclor-1232	GC22	A	09/01/04 07:04
174320-006	Aroclor-1242	GC22	A	09/01/04 07:04
174320-006	Aroclor-1248	GC22	A	09/01/04 07:04
174320-006	Aroclor-1254	GC22	A	09/01/04 07:04
174320-006	Aroclor-1260	GC22	A	09/01/04 07:04
174320-006	TCMX	GC22	A	09/01/04 07:04
174320-006	Decachlorobiphenyl	GC22	A	09/01/04 07:04
QC263002	Aroclor-1016	GC06	A	08/31/04 06:42
QC263002	Aroclor-1221	GC06	A	08/31/04 06:42
QC263002	Aroclor-1232	GC06	A	08/31/04 06:42
QC263002	Aroclor-1242	GC06	A	08/31/04 06:42
QC263002	Aroclor-1248	GC06	A	08/31/04 06:42
QC263002	Aroclor-1254	GC06	A	08/31/04 06:42
QC263002	Aroclor-1260	GC06	A	08/31/04 06:42
QC263002	TCMX	GC06	A	08/31/04 06:42
QC263002	Decachlorobiphenyl	GC06	A	08/31/04 06:42
QC263003	Aroclor-1016	GC06	A	08/31/04 07:15
QC263003	Aroclor-1260	GC06	A	08/31/04 07:15
QC263003	TCMX	GC06	A	08/31/04 07:15
QC263003	Decachlorobiphenyl	GC06	A	08/31/04 07:15

Reporting Summary for 174320 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC263004	Aroclor-1016	GC06	A	08/31/04 07:49
QC263004	Aroclor-1260	GC06	A	08/31/04 07:49
QC263004	TCMX	GC06	A	08/31/04 07:49
QC263004	Decachlorobiphenyl	GC06	A	08/31/04 07:49
QC263005	Aroclor-1016	GC06	A	08/31/04 08:22
QC263005	Aroclor-1260	GC06	A	08/31/04 08:22
QC263005	TCMX	GC06	A	08/31/04 08:22
QC263005	Decachlorobiphenyl	GC06	A	08/31/04 08:22
QC263072	Aroclor-1016	GC22	A	09/01/04 07:33
QC263072	Aroclor-1260	GC22	A	09/01/04 07:33
QC263072	TCMX	GC22	A	09/01/04 07:33
QC263072	Decachlorobiphenyl	GC22	A	09/01/04 07:33
QC263073	Aroclor-1016	GC22	A	09/01/04 08:01
QC263073	Aroclor-1260	GC22	A	09/01/04 08:01
QC263073	TCMX	GC22	A	09/01/04 08:01
QC263073	Decachlorobiphenyl	GC22	A	09/01/04 08:01
QC263074	Aroclor-1016	GC22	A	09/01/04 08:29
QC263074	Aroclor-1260	GC22	A	09/01/04 08:29
QC263074	TCMX	GC22	A	09/01/04 08:29
QC263074	Decachlorobiphenyl	GC22	A	09/01/04 08:29
QC263075	Aroclor-1016	GC22	A	09/01/04 08:58
QC263075	Aroclor-1260	GC22	A	09/01/04 08:58
QC263075	TCMX	GC22	A	09/01/04 08:58
QC263075	Decachlorobiphenyl	GC22	A	09/01/04 08:58

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-AUG-2004 19:59**

Batch Number : 94184
Date Extracted: 30-AUG-2004
Extracted by : Coral E. Weese
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1320A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174286-001			URS Corporation	Soil	15.02	g	10	0.665779	1		.025	0		PCB	3665A	
174301-001			Blasland, Bouck & Lee	Soil	14.98	g	10	0.667557	1		.025	0		PCB	3665A	mss
174320-002			Treadwell & Rollo	Soil	15.11	g	10	0.661813	1		.025	0		PCB	3665A	
174320-004			Treadwell & Rollo	Soil	14.84	g	10	0.673854	1		.025	0		PCB	3665A	
174320-005			Treadwell & Rollo	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	
174320-006			Treadwell & Rollo	Soil	14.59	g	10	0.685401	1		.025	0		PCB	3665A	
QC263002	MB			Soil	15.03	g	10	0.665336	1		.025	0		PCB	3665A	
QC263003	LCS			Soil	15.23	g	10	0.656599	1		.025	.025		PCB	3665A	
QC263004	MS	of 174301-001		Soil	15.04	g	10	0.664894	1		.025	.025		PCB	3665A	
QC263005	MSD	of 174301-001		Soil	15.01	g	10	0.666223	1		.025	.025		PCB	3665A	
QC263072	MS	of 174320-002		Soil	14.95	g	10	0.668896	1		.025	.025		PCB	3665A	174320-002
QC263073	MSD	of 174320-002		Soil	14.99	g	10	0.667111	1		.025	.025		PCB	3665A	174320-002
QC263074	MS	of 174320-006		Soil	15.33	g	10	0.652316	1		.025	.025		PCB	3665A	174320-006
QC263075	MSD	of 174320-006		Soil	14.9	g	10	0.671141	1		.025	.025		PCB	3665A	174320-006

Prep Chemist: Coral Weese Reviewed By: Jenny Mee Date: 8/31/04

Relinquished By: Coral Weese Received By: [illegible] Date: 08/31/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

BK 1940

Page 70

LIMS Batch No: 94184

LIMS Analysis CON

Extracted by: 8/30/04

Date Extracted: CON

☐ EPA 3550b Sonication

☐ EPA 3540c Soxhlet

☑ EPA 3545 PFE (ASE Method# 10)

☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
174286-001	15.02	10.0	
174301-001	14.98		MSS
MB QC263002	15.03		
LCS 3	15.23		
MS 4	15.04		
MSD 5	15.01		
174320-002	15.11		MSS
-004	14.84		
-005	14.90		
-006	14.59		MSS
MS QC263072	14.95	10.0	174320-002
MSD 3	14.99		
MS 4	15.33		174320-006
MSD 5	14.90		

CON 8/30/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM433104 1b	CW 8/30/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 040112	
0.025 mL of surrogate solution was added to all samples	04WS1343A	
0.025 mL of spike solution 1660 was added to all spikes	04WS1320A	
1:1 CH_2Cl_2 (lot# EM44161):Acetone(lot# EM44179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman 028	
PFE (ASE) / soxhlets on at:	NA	
PFE (ASE) / soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	↓	
Concentrated to volumes noted above after exchange to Hexane Lot#	Y53E46	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTBX7604b	
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	

Cora Weex 8/30/04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

Jessie Mae 8/31/04

Reviewed by / Date

SAMPLE ID	WEIGHT(g)	ANALYSIS	COMMENTS
173959-015A	29.68	8081	
-019	29.84		
-027	29.72		
-031	30.00		
-033	30.44		MSS
174254-001D	29.60		
174255-001	29.87		Comp A-D
174286-001	30.23		Comp A-D
MB	29.85		EM43310410
LCS	29.66		
MS	30.08		173959-033A
MSD	29.87		
174286-001	15.02	PCB	Comp A-D
174301-001A	14.98		MSS
MB	15.03		EM43310410
LCS	15.23		
MS	15.04		174301-001A
MSD	15.01		
174255-001	49.94	TEHM	Comp A-D
174304-001A	49.77		MSS
-002	50.22		
-006	50.01		
-007	49.74		
MB	49.92		EM43310410
LCS	49.76		
MS	50.08		174304-001A
MSD	50.01		

JRD
8/30/04

Continued on Page

Read and Understood By

Jennifer Dell 8/30/04
Signed Date Signed Date

PROJECT Soil Aliquot

Notebook No. BK1979

Continued From Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	COMMENTS
174320-002A	15.11	PCB	JRD 8/30/04 ~~174320-002~~ MSS
-004	14.84		
-005	14.90		
-006	14.59		MSS
MS	14.95		174320-002A
MSD	14.99		↓
MS	15.33		174320-006A
MSD	14.90		↓
174320-002A	29.78	8081	MSS
-004	29.97		
-005	29.92		
-006	30.46		MSS
MS	29.70		174320-002A
MSD	29.97		↓
MS	29.72		174320-006A
MSD	29.94		↓
174320-002A	30.03	8270	

JRD 8/30/04

Continued on Page

Read and Understood By

Jennifer Dell — Signed

8/30/04 — Date

Signed

Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14 A	GC14 B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0			09/24/02 2.7	09/24/02 3.7	12/19/03 2.2	12/19/03 2.4
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	08/12/03 5.4	08/12/03 3.2			08/02/03 2.3	08/02/03 2.0	07/26/03 2.6	07/26/03 1.8
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9			09/24/02 2.3	09/24/02 3.1	12/19/03 1.7	12/19/03 4.5

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-002	Cident	: BB3EX118[0.5]
Seqnum	: 254350716071	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_071	Batchnum	: 94184	Injected	: 01-SEP-2004 01:53
IDF	: 1.0			Units	: ug/Kg

Prep: 15.11 g --> 10.0 ml = 0.6618 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=243_032	Flags
Aroclor-1016	A	254347030001	ND					9.5		
Aroclor-1016 Peak # 1	A	254347030001		ND	ND					
Aroclor-1016 Peak # 2	A	254347030001		ND	ND					
Aroclor-1016 Peak # 3	A	254347030001		ND	ND					
Aroclor-1016 Peak # 4	A	254347030001		ND	ND					
Aroclor-1016 Peak # 5	A	254347030001		ND	ND					
Aroclor-1221	A		ND					19		
Aroclor-1232	A		ND					9.5		
Aroclor-1242	A		ND					9.5		
Aroclor-1248	A		ND					9.5		
Aroclor-1254	A		ND					9.5		
Aroclor-1260	A	254347030001	ND					9.5		
Aroclor-1260 Peak # 1.....	A	254347030001		0.40	ND					
Aroclor-1260 Peak # 2	A	254347030001		ND	0.41					
Aroclor-1260 Peak # 3	A	254347030001		ND	ND					
Aroclor-1260 Peak # 4	A	254347030001		ND	ND					
Aroclor-1260 Peak # 5	A	254347030001		ND	ND					

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	33.09	6.716	20*	65-135	
Decachlorobiphenyl	A	254347030001	33.09	13.85	42*	65-135	

~~RRMS Injection~~ FA 9/01/04 (matrix interferences)

~~Re-extract~~

Analyst: FA Date: 09/01/04 Reviewer: [illegible] Date: 9/1/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-002,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 71

Date : 9/1/04 1:53:19 PM
Data Acquisition Time : 9/1/04 1:53:15 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a071.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.821	33339.02	10.1484	0.662	1	6.72	1.34
Aroclor-1016	12.226	0.00	0.0000	0.662	1	0.00	0.00
Aroclor-1260	16.781	81.00	0.1012	0.662	1	0.07	0.01
Decachlorobiphenyl	22.355	38352.59	20.9271	0.662	1	13.85	2.77
		71772.62	31.1766			20.63	4.13

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.914	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#3	12.587	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#4	12.760	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#2	12.228	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#5	13.677	0.00	0.0000	0.662	1	0.00	0.00
		0.00	0.0000			0.00	0.00

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.781	81.00	0.6094	0.662	1	0.40	0.08
PCB1260#2	17.499	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#3	18.482	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#4	19.104	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#5	19.864	0.00	0.0000	0.662	1	0.00	0.00
		81.00	0.6094			0.40	0.08

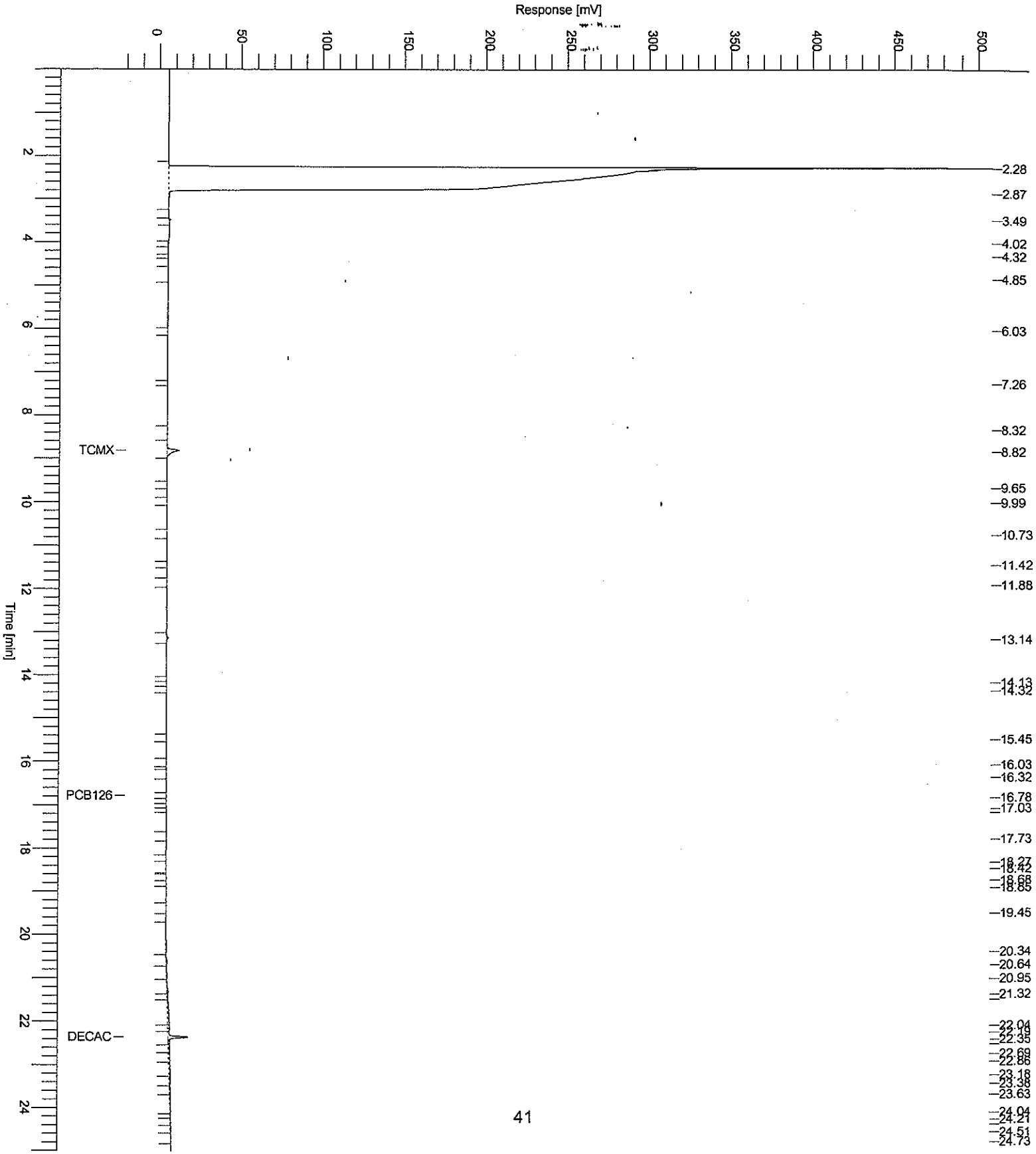
RR
Miss Injection.

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\243a071.TX0

GC22 Rtx-CLPesticides

Sample Name : 174320-002,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a071.raw
Date : 9/1/04 1:53:22 PM
Method : gc22ins Time of Injection: 9/1/04 1:53:15 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -20.54 mV High Point : 508.75 mV
Scale Factor: 1.0 Plot Offset: -20.54 mV Plot Scale: 529.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-002,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 71

Date : 9/1/04 1:53:35 PM
Data Acquisition Time : 9/1/04 1:53:15 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b071.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.131	39819.00	10.9345	0.662	1	7.24	1.45
Aroclor-1016	12.332	0.00	0.0000	0.662	1	0.00	0.00
Aroclor-1260	17.554	114.50	0.1250	0.662	1	0.08	0.02
Decachlorobiphenyl	22.820	48508.44	19.7920	0.662	1	13.10	2.62
		88441.94	30.8515			20.42	4.08

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#2	11.660	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#3	12.335	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#4	12.605	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#5	13.768	0.00	0.0000	0.662	1	0.00	0.00
		0.00	0.0000			0.00	0.00

Group Report For : Aroclor-1260

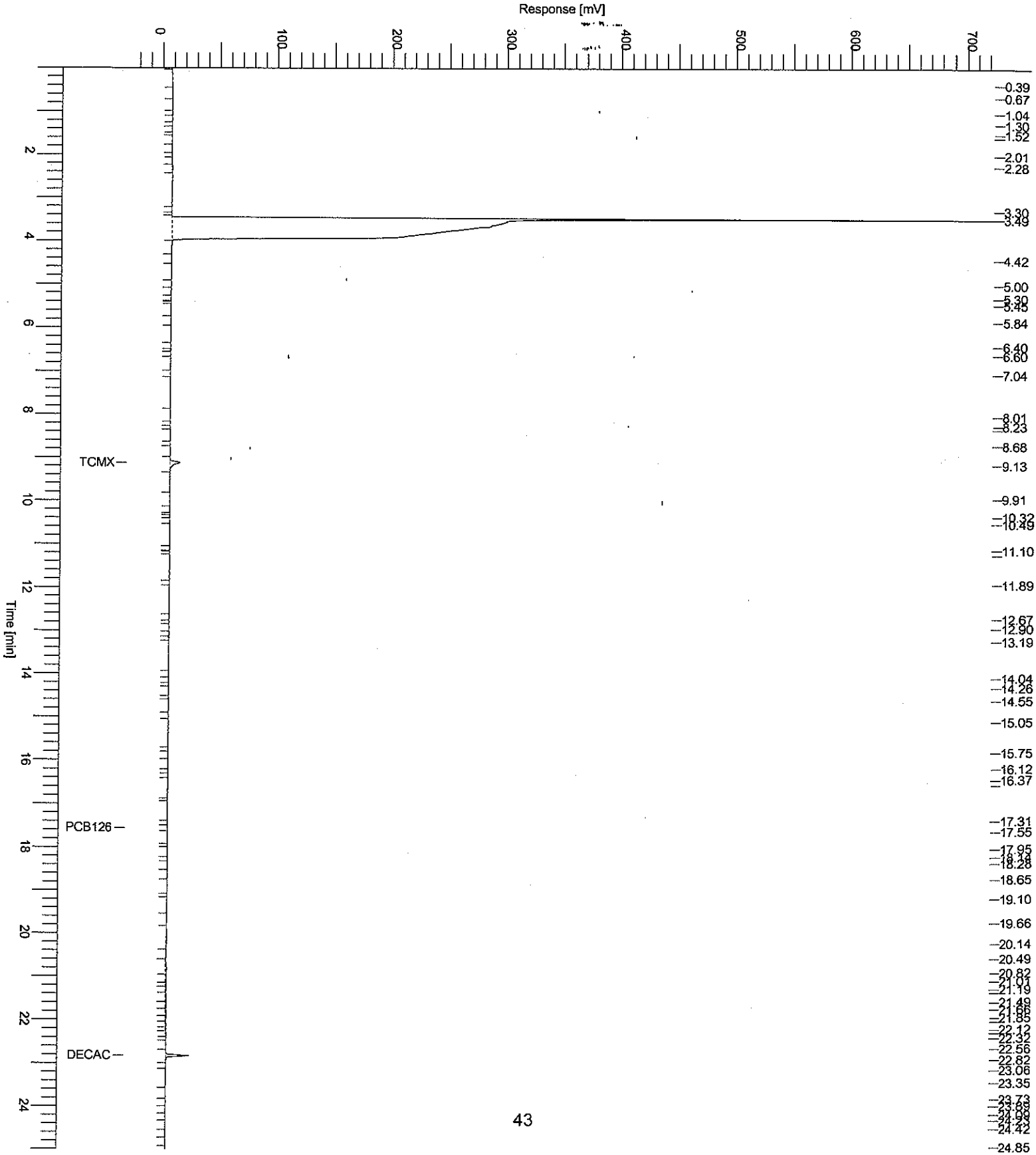
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.000	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#2	17.554	114.50	0.6166	0.662	1	0.41	0.08
PCB1260#3	18.705	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#4	19.303	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#5	19.961	0.00	0.0000	0.662	1	0.00	0.00
		114.50	0.6166			0.41	0.08

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b071.TX0

GC22 Rtx-CLPesticides II

Sample Name : 174320-002,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b071
Date : 9/1/04 1:53:38 PM
Method : gc22ins Time of Injection: 9/1/04 1:53:15 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -29.92 mV High Point : 723.89 mV
Scale Factor: 1.0 Plot Offset: -29.92 mV Plot Scale: 753.8 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-002	Cident	: BB3EX118[0.5]
Seqnum	: 254350716090	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_090	Batchnum	: 94184	Injected	: 01-SEP-2004 14:16
IDF	: 1.0			Units	: ug/Kg

Prep: 15.11 g --> 10.0 ml = 0.6618 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B-243_032	Flags
Aroclor-1016	A	254347030001	ND					9.5		?>c
Aroclor-1016 Peak # 1	A	254347030001		ND	ND					
Aroclor-1016 Peak # 2	A	254347030001		ND	1.15					
Aroclor-1016 Peak # 3	A	254347030001		ND	0.73					
Aroclor-1016 Peak # 4	A	254347030001		0.67	0.35	63%				
Aroclor-1016 Peak # 5	A	254347030001		ND	ND					
Aroclor-1221	A		ND					19		
Aroclor-1232	A		ND					9.5		
Aroclor-1242	A		ND					9.5		
Aroclor-1248	A		ND					9.5		
Aroclor-1254	A		ND					9.5		
Aroclor-1260	A	254347030001	ND					9.5		?>c
Aroclor-1260 Peak # 1	A	254347030001		ND	ND					
Aroclor-1260 Peak # 2	A	254347030001		ND	ND					
Aroclor-1260 Peak # 3	A	254347030001		ND	ND					
Aroclor-1260 Peak # 4	A	254347030001		ND	ND					
Aroclor-1260 Peak # 5	A	254347030001		0.16	4.08	185%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	33.09	7.041	21*	65-135	?>c
Decachlorobiphenyl	A	254347030001	33.09	12.84	39*	65-135	?>c

Re-run to confirm the 1st run

>=closing ?=missing c=CCV

Analyst: [signature] Date: 09/01/04 Reviewer: _____ Date: _____

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-002,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 90

Date : 9/1/04 2:52:54 PM
Data Acquisition Time : 9/1/04 2:16:20 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a090.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.851	34950.90	10.6390	0.662	1	7.04	1.41
Aroclor-1016	12.721	70.00	0.1537	0.662	1	0.10	0.02
Aroclor-1260	19.862	60.00	0.0749	0.662	1	0.05	0.01
Decachlorobiphenyl	22.365	35562.76	19.4048	0.662	1	12.84	2.57
		70643.66	30.2724			20.03	4.01

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.914	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#3	12.587	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#4	12.721	70.00	1.0127	0.662	1	0.67	0.13
PCB1016#2	12.228	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#5	13.677	0.00	0.0000	0.662	1	0.00	0.00
		70.00	1.0127			0.67	0.13

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.806	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#2	17.499	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#3	18.482	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#4	19.104	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#5	19.862	60.00	0.2467	0.662	1	0.16	0.03
		60.00	0.2467			0.16	0.03

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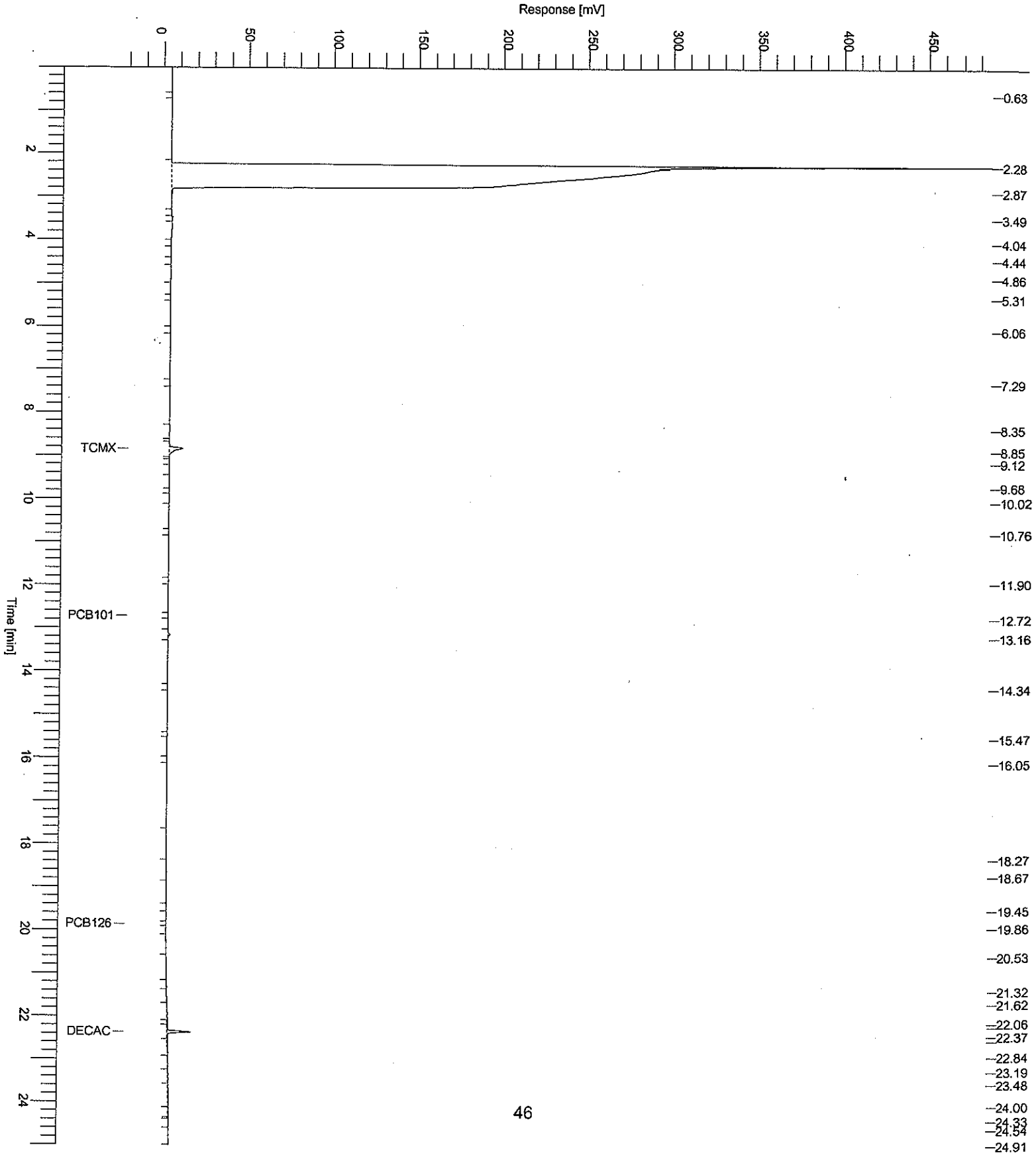
Report stored in ASCII file: G:\gc22\CHA\243a090.TX0

GC22 Rtx-CLPesticides

Sample Name : 174320-002,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a090.raw
Date : 9/1/04 2:52:57 PM
Method : gc22ins Time of Injection: 9/1/04 2:16:20 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -20.11 mV High Point : 486.76 mV
Scale Factor: 1.0 Plot Offset: -20.11 mV Plot Scale: 506.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-002,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 90

Date : 9/1/04 2:52:49 PM
Data Acquisition Time : 9/1/04 2:16:20 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b090.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.137	39134.00	10.7464	0.662	1	7.11	1.42
Aroclor-1016	12.307	408.54	0.7937	0.662	1	0.53	0.11
Aroclor-1260	19.947	1912.00	2.0869	0.662	1	1.38	0.28
Decachlorobiphenyl	22.822	52060.00	21.2411	0.662	1	14.06	2.81
		93514.54	34.8681			23.08	4.62

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	0.00	0.0000	0.662	1	0.00	0.00
PCB1016#2	11.632	152.24	1.7360	0.662	1	1.15	0.23
PCB1016#3	12.307	198.00	1.1047	0.662	1	0.73	0.15
PCB1016#4	12.585	58.30	0.5302	0.662	1	0.35	0.07
PCB1016#5	13.768	0.00	0.0000	0.662	1	0.00	0.00
		408.54	3.3709			2.23	0.45

Group Report For : Aroclor-1260

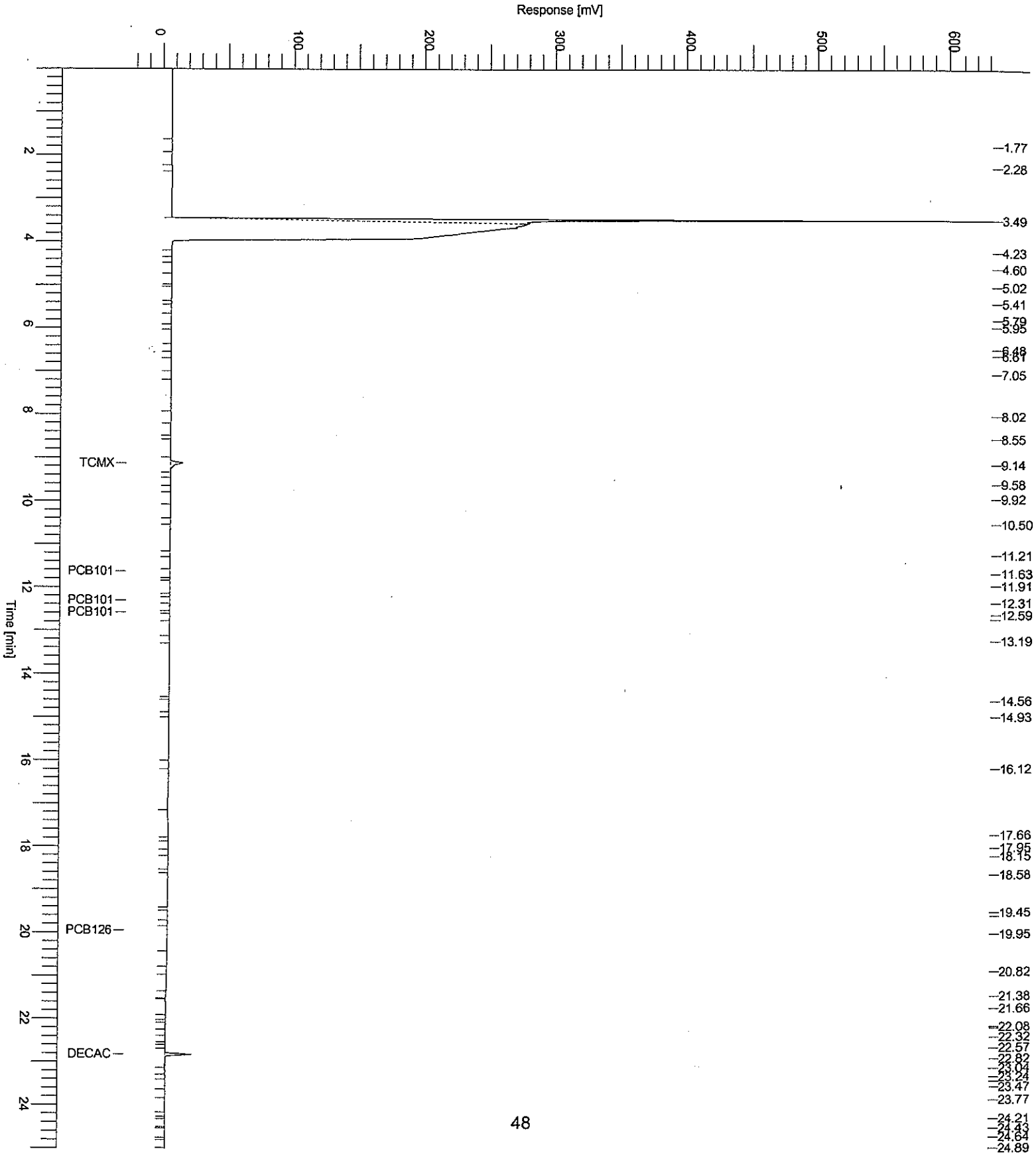
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.000	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#2	17.585	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#3	18.705	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#4	19.303	0.00	0.0000	0.662	1	0.00	0.00
PCB1260#5	19.947	1912.00	6.1591	0.662	1	4.08	0.82
		1912.00	6.1591			4.08	0.82

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b090.TX0

GC22 Rtx-CLPesticides II

Sample Name : 174320-002,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b090
Date : 9/1/04 2:52:51 PM
Method : gc22ins Time of Injection: 9/1/04 2:16:20 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -27.15 mV High Point : 632.19 mV
Scale Factor: 1.0 Plot Offset: -27.15 mV Plot Scale: 659.3 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-004	Cident	: BB3EX120[0.5]
Seqnum	: 254350716072	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_072	Batchnum	: 94184	Injected	: 01-SEP-2004 02:21
IDF	: 1.0			Units	: ug/Kg

Prep: 14.84 g --> 10.0 ml = 0.6739 ml/g PDF

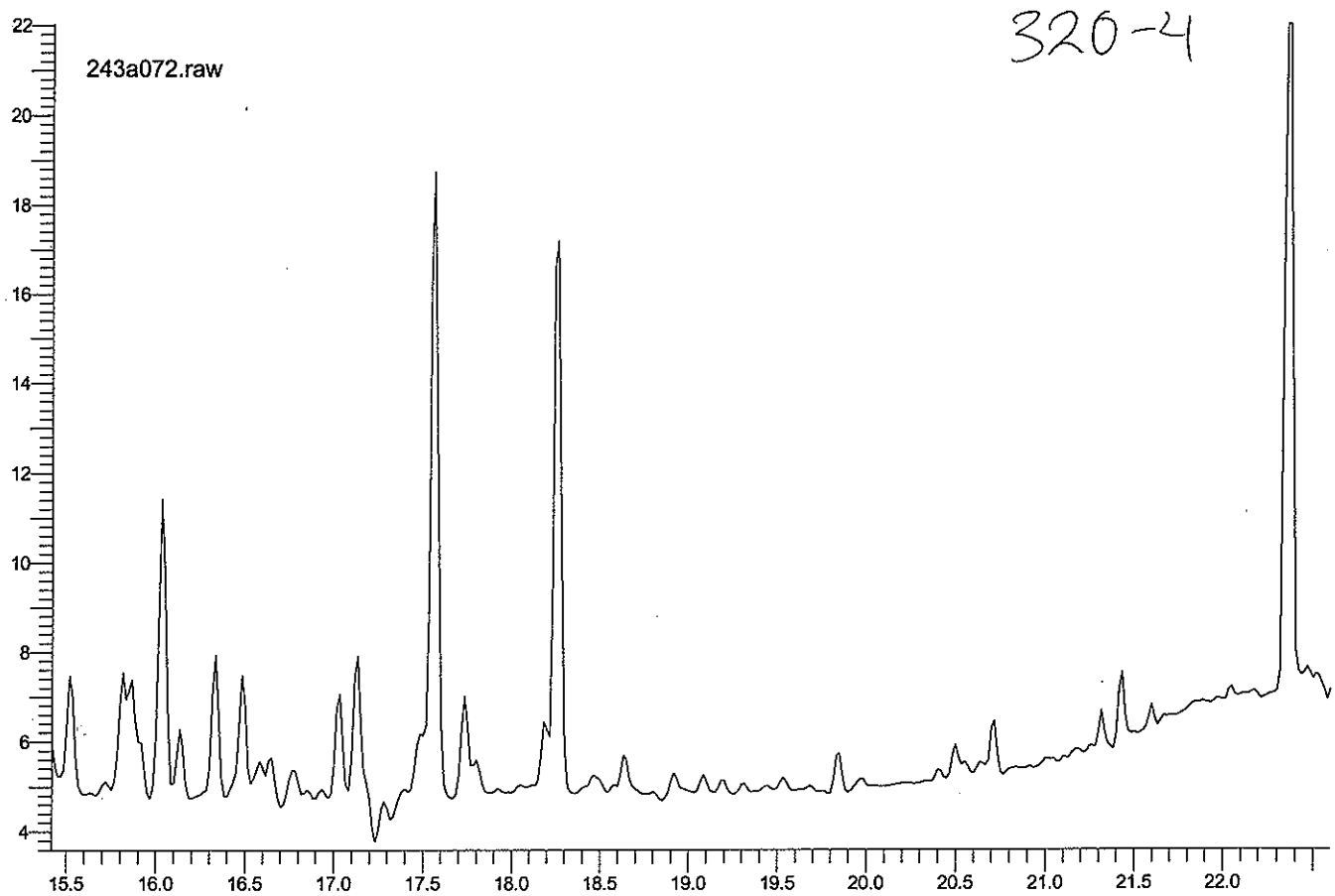
Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=243_032	Flags
Aroclor-1016	A	254347030001	160		170	5%		9.7		x
Aroclor-1016 Peak # 1	A	254347030001		12.55	38.96	103%				
Aroclor-1016 Peak # 2	A	254347030001		336.43	159.03	72%				
Aroclor-1016 Peak # 3	A	254347030001		46.71	328.86	150%				
Aroclor-1016 Peak # 4	A	254347030001		210.14	97.49	73%				
Aroclor-1016 Peak # 5	A	254347030001		215.57	240.11	11%				
Aroclor-1221	A		ND					19		
Aroclor-1232	A		ND					9.7		
Aroclor-1242	A		ND					9.7		
Aroclor-1248	B	254350716002	180		120	36%		9.7		?v
Aroclor-1248 Peak # 1	B	254350716002				10%				o
Aroclor-1248 Peak # 2	B	254350716002		155.63	114.14	31%				
Aroclor-1248 Peak # 3	B	254350716002		171.96	64.51	91%				
Aroclor-1248 Peak # 4	B	254350716002		208.33	194.04	7%				
Aroclor-1248 Peak # 5	B	254350716002				30%				o
Aroclor-1254	A		ND					9.7		
Aroclor-1260	A	254347030001	21		26	20%		9.7		x
Aroclor-1260 Peak # 1	A	254347030001		21.00	53.28	87%				
Aroclor-1260 Peak # 2	A	254347030001		ND	15.59					
Aroclor-1260 Peak # 3	A	254347030001		57.68	25.64	77%				
Aroclor-1260 Peak # 4	A	254347030001		19.93	19.30	3%				
Aroclor-1260 Peak # 5	A	254347030001		7.17	15.62	74%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	33.69	35.74	106	65-135	
Decachlorobiphenyl	A	254347030001	33.69	31.11	92	65-135	

?=missing o=omit component v=ICV out x=false positive

Analyst: [signature] Date: 09/01/04 Reviewer: [signature] Date: 9/1/04

Page 1 of 1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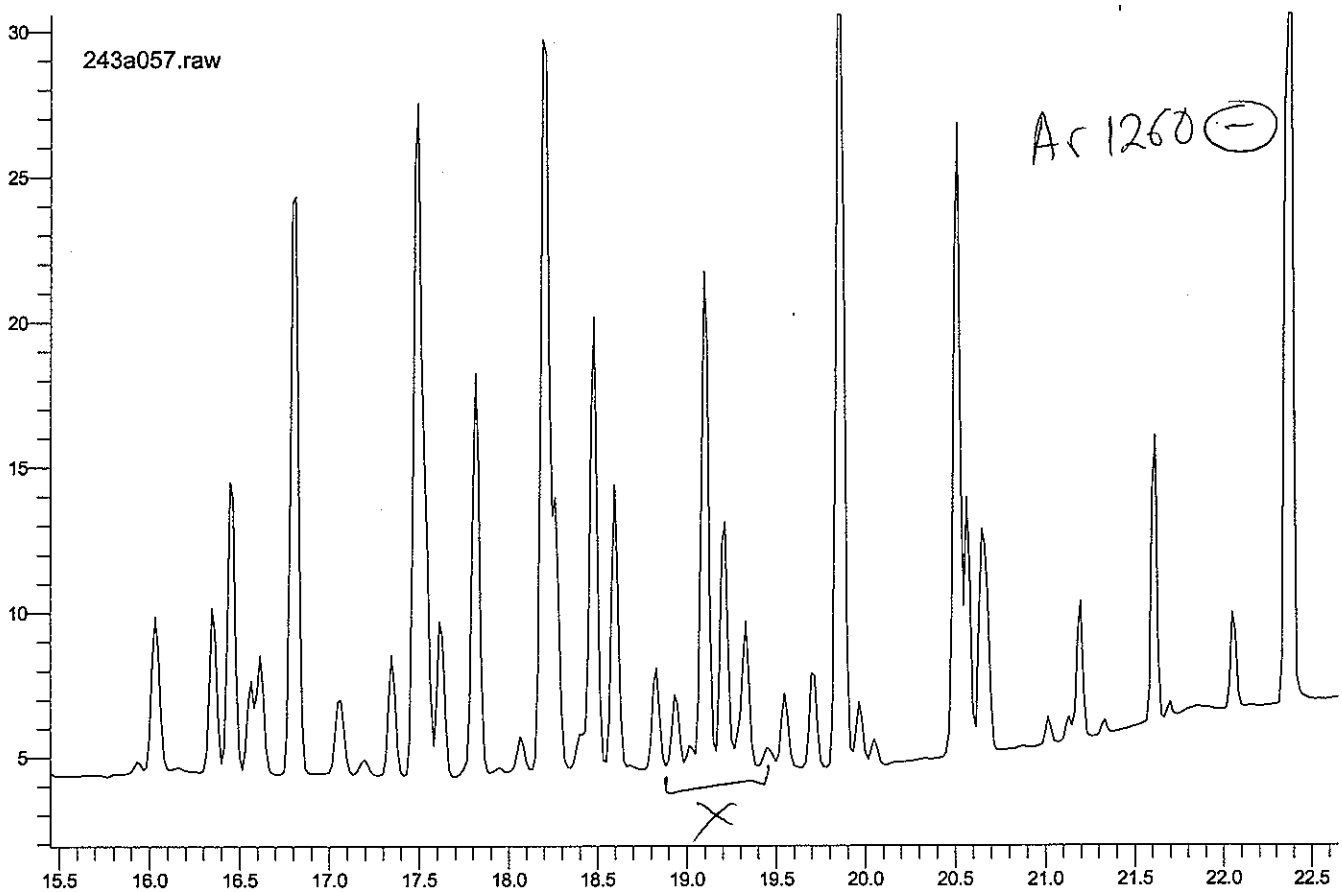
21.5
22.0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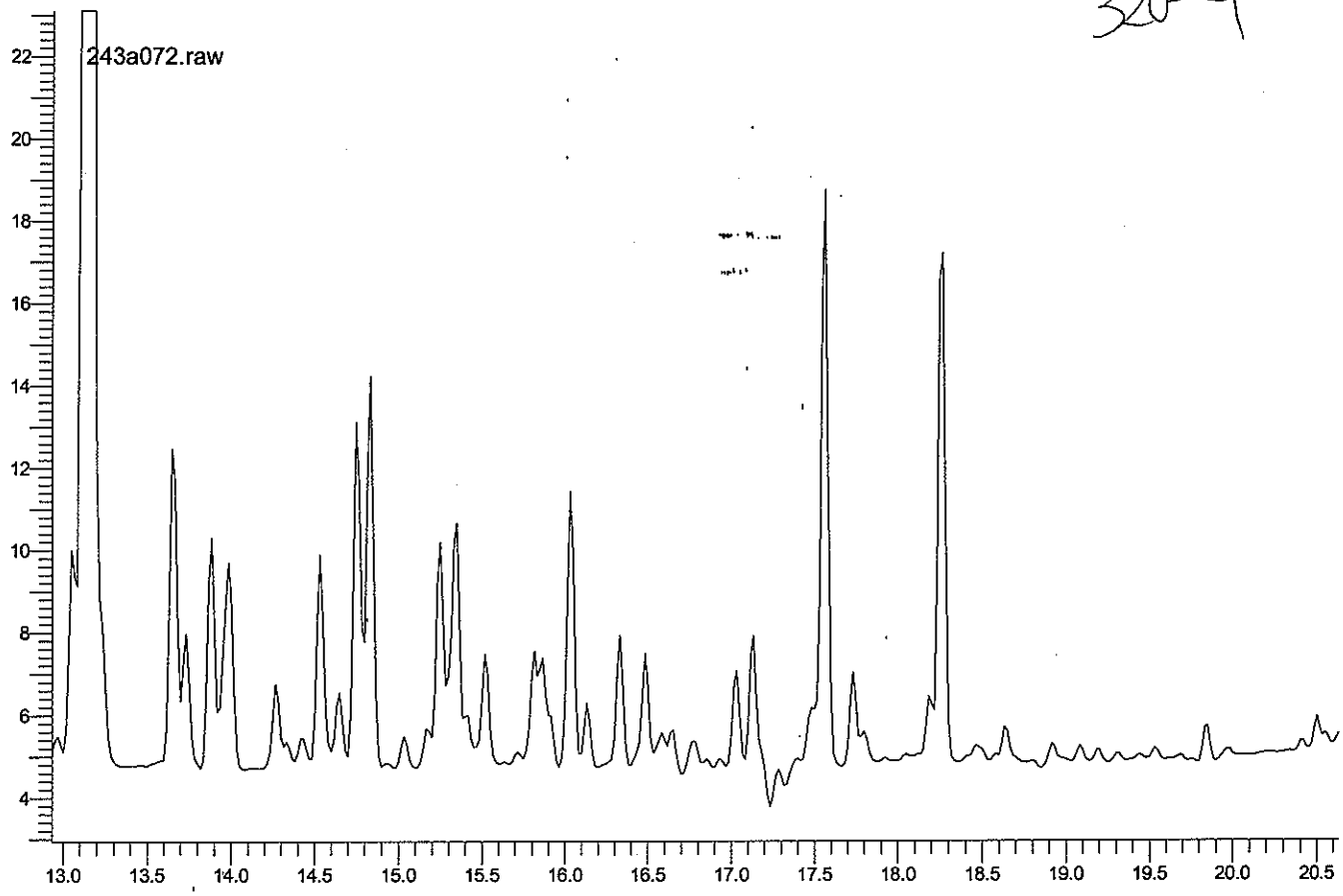
320-4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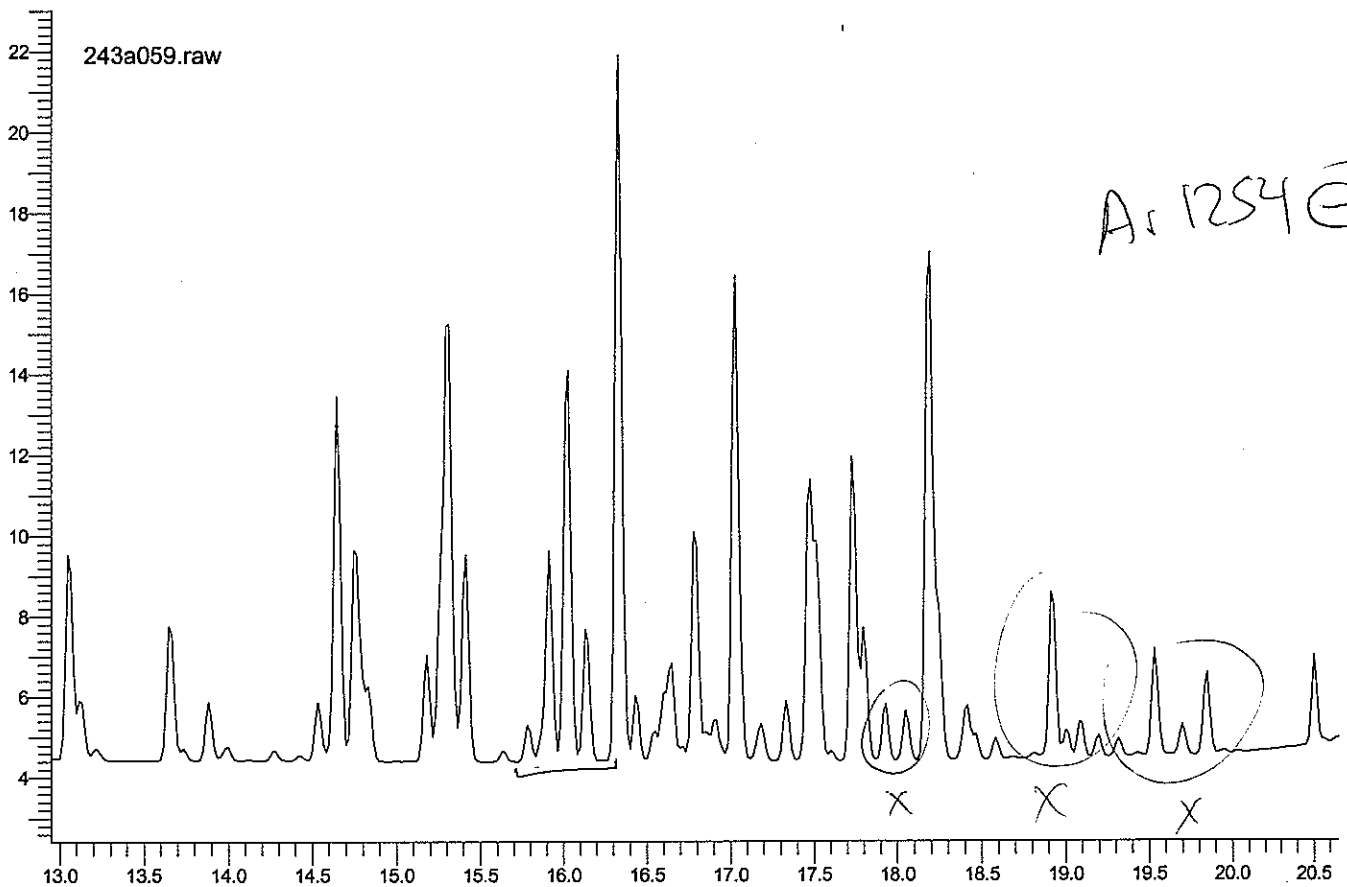
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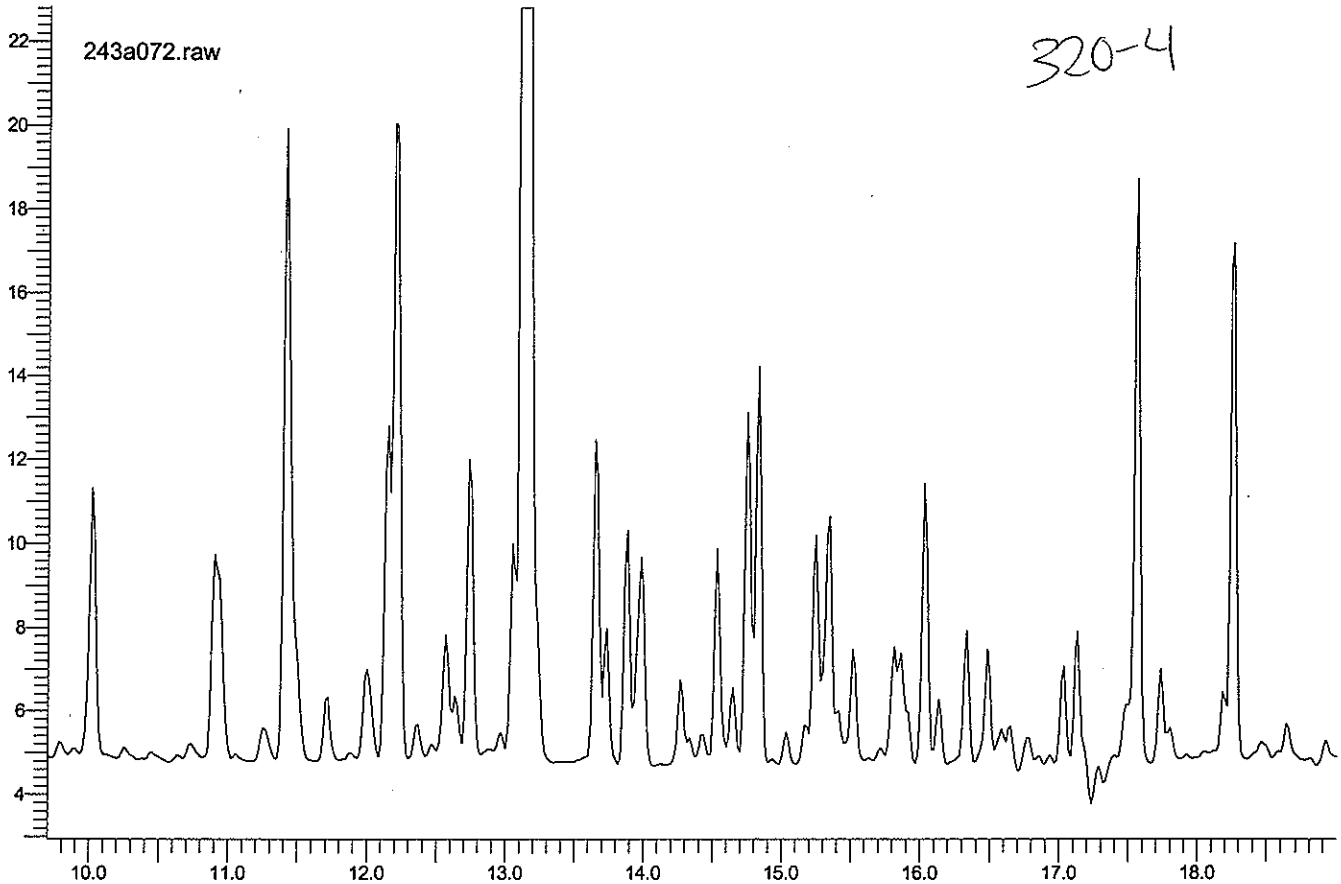
A: 1254 ⊖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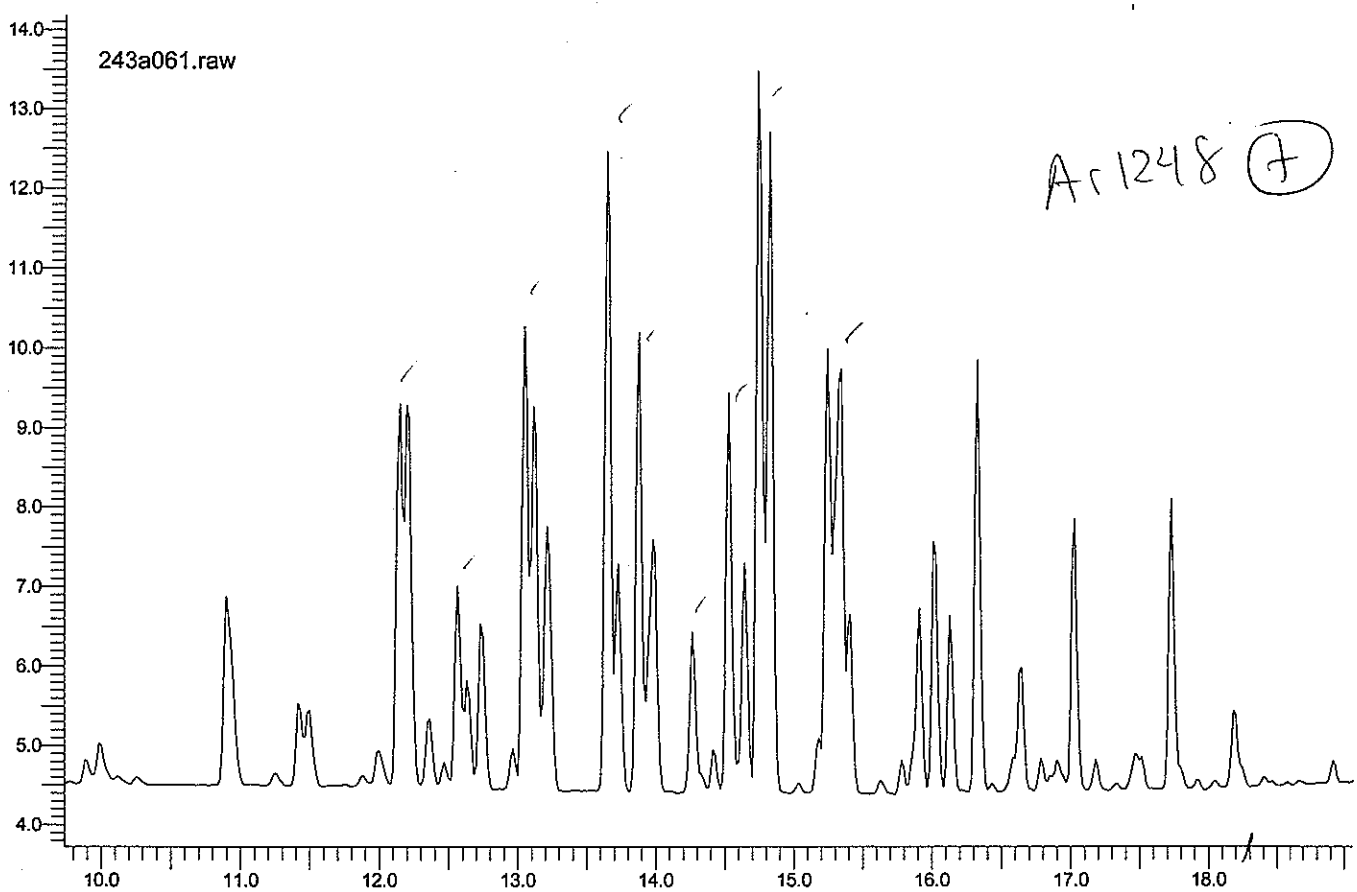
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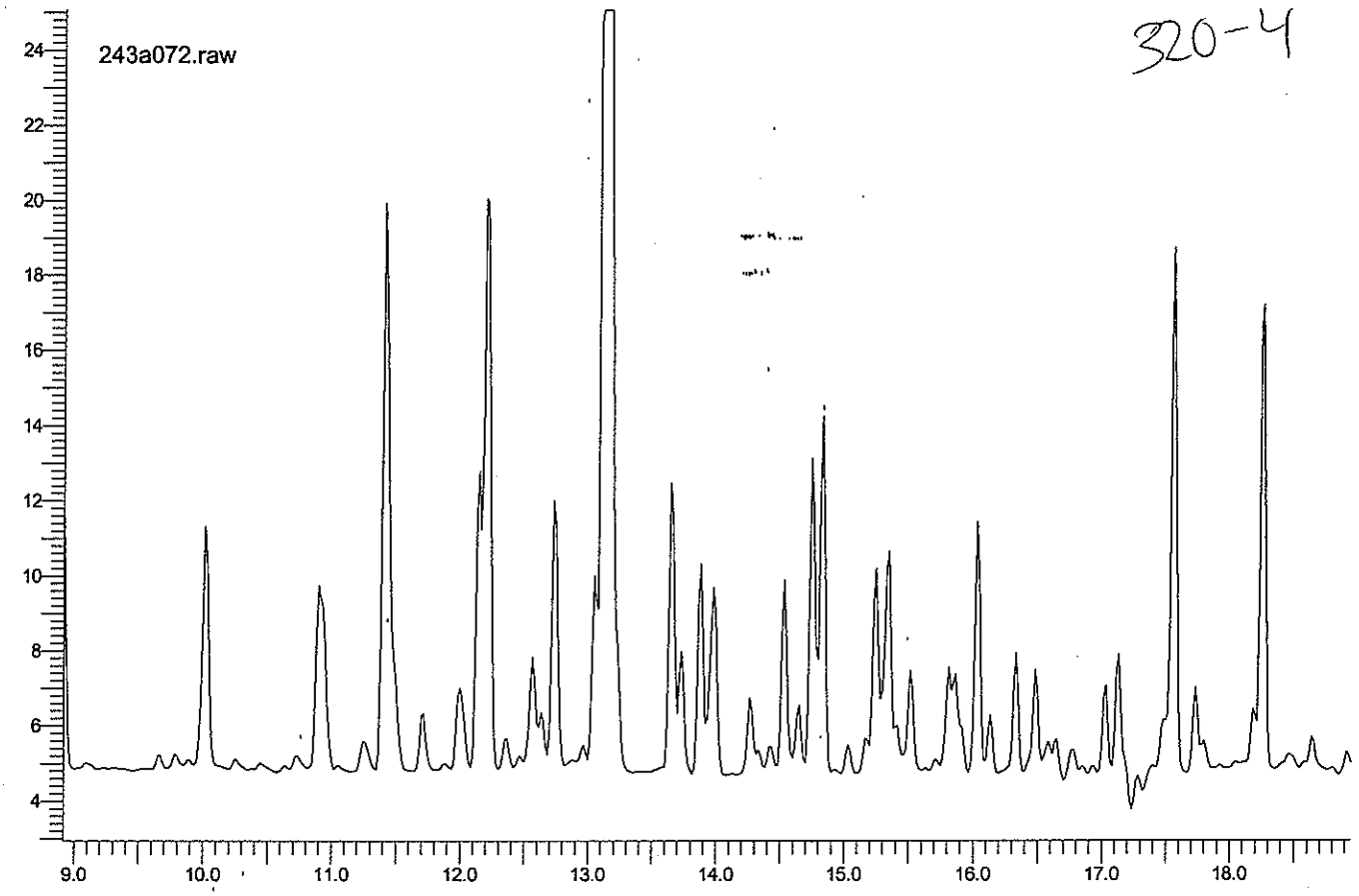
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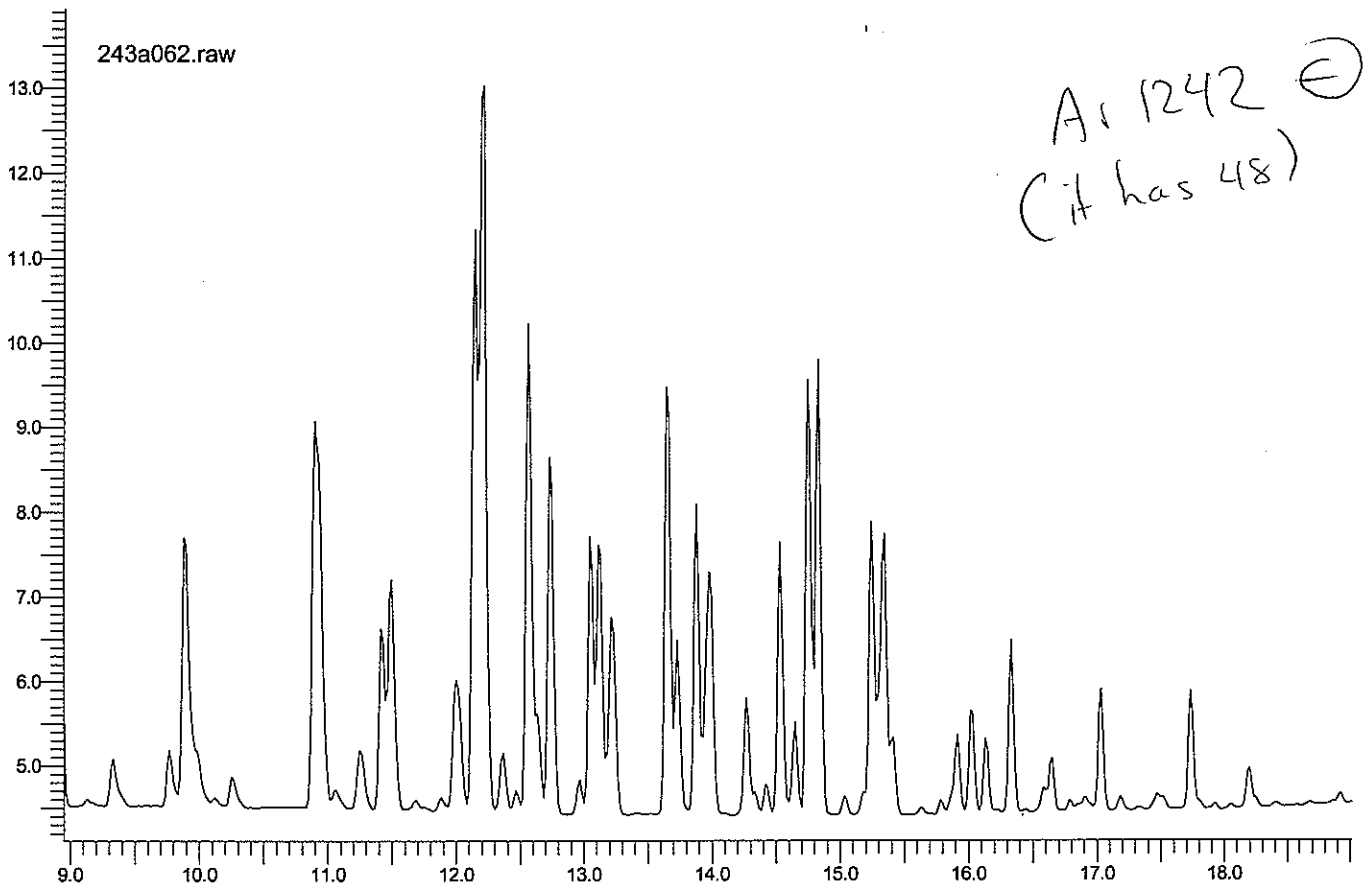
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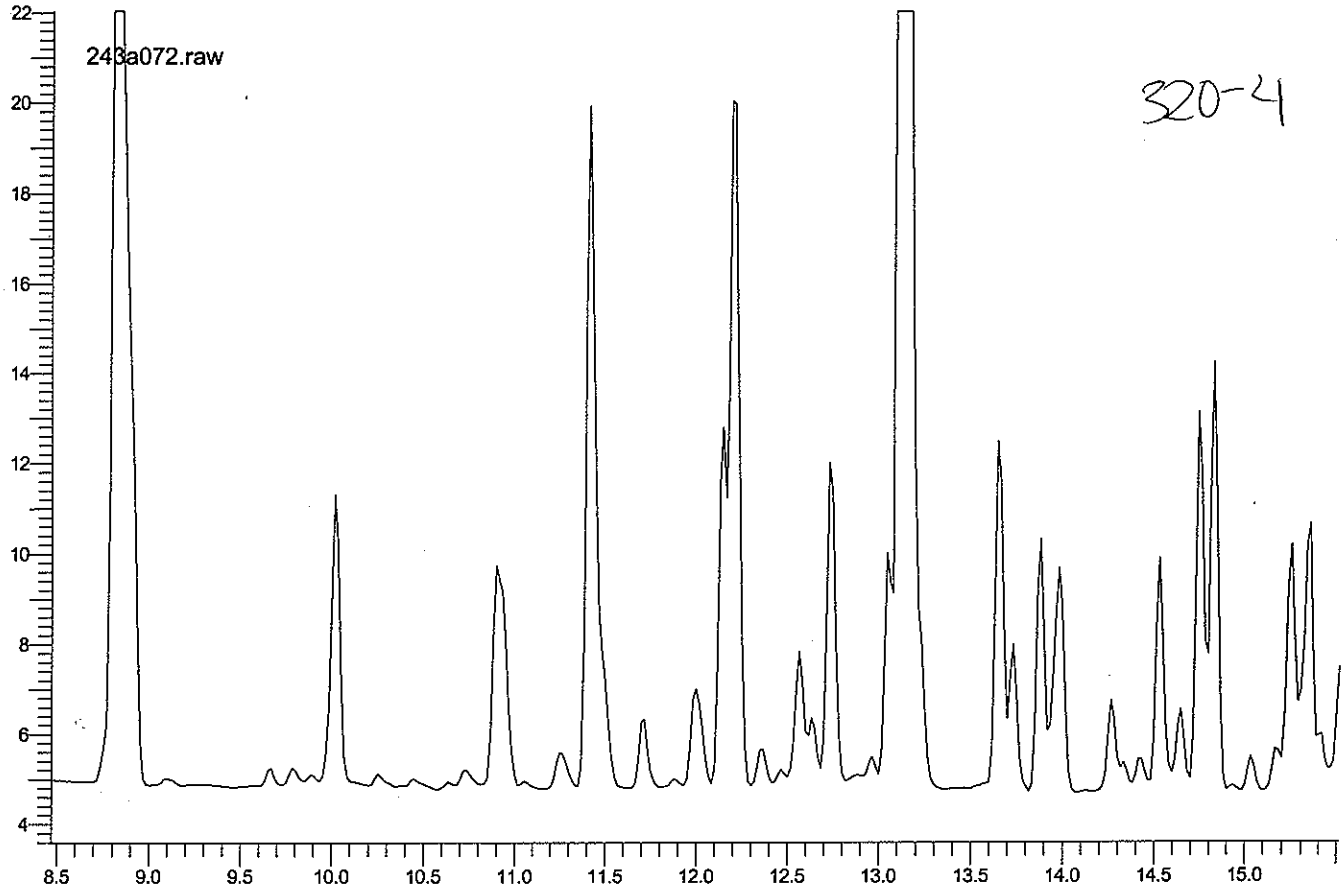
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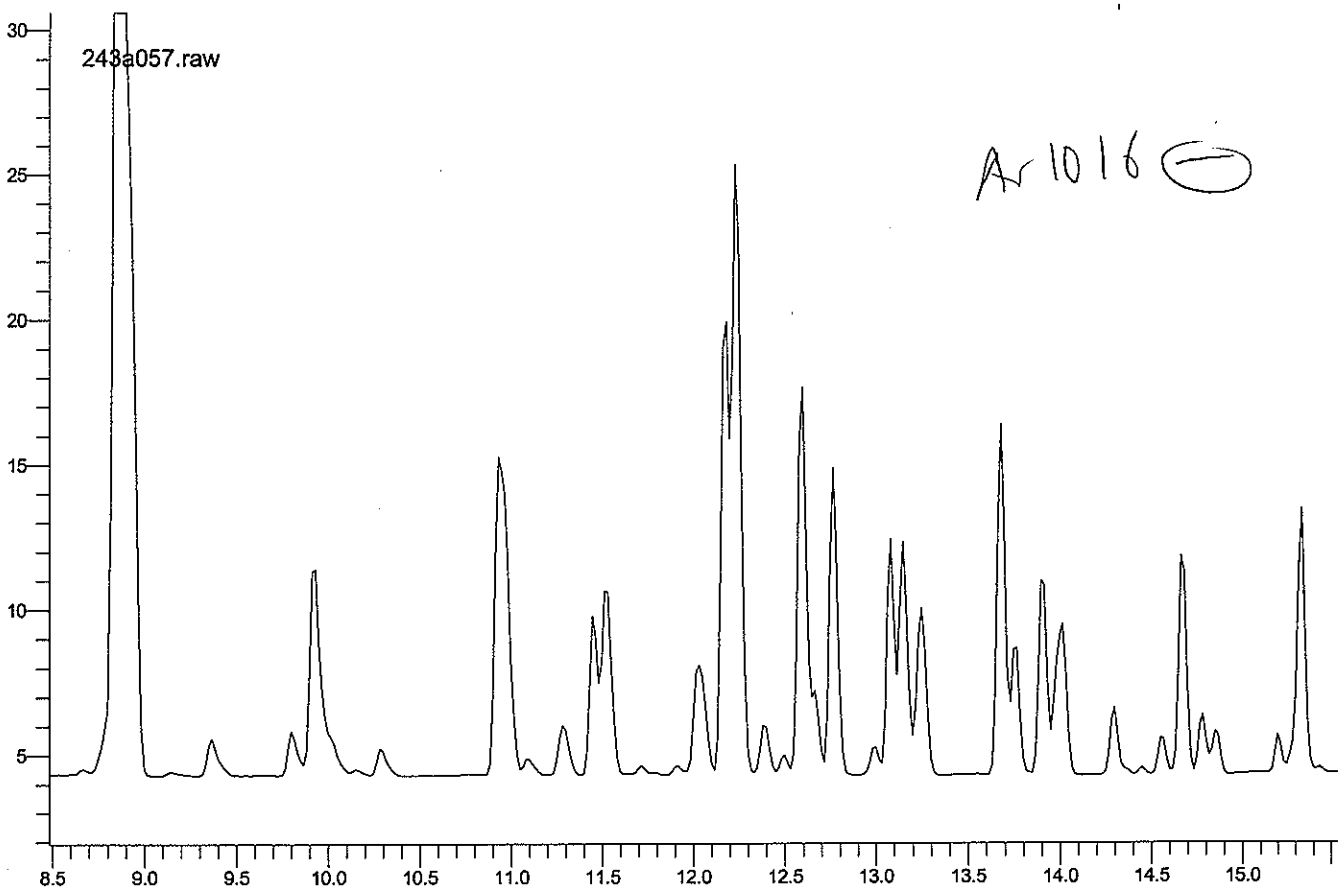
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Software Version : 6.1.2.0.1:D19
Sample Name : 174320-004,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 72

Date : 9/1/04 3:55:58 PM
Data Acquisition Time : 9/1/04 2:21:31 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b072q.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	9.134	186251.00	51.1454	0.674	1	34.46	6.89
Aroclor-1248	15.290	153279.61	328.7138	0.674	1	221.51	44.30
Decachlorobiphenyl_	22.820	117542.97	47.9589	0.674	1	32.32	6.46
		457073.58	427.8181			288.29	57.66

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.783	28606.09	926.3711	0.674	1	624.24	~~124.85~~
PCB1248#2	13.739	25620.42	230.9550	0.674	1	155.63	31.13
PCB1248#3	14.065	34428.46	255.1844	0.674	1	171.96	34.39
PCB1248#4	15.290	41935.79	309.1665	0.674	1	208.33	41.67
PCB1248#5	16.120	22688.85	420.6980	0.674	1	283.49	~~56.70~~
		153279.61	2142.3751			1443.65	288.73

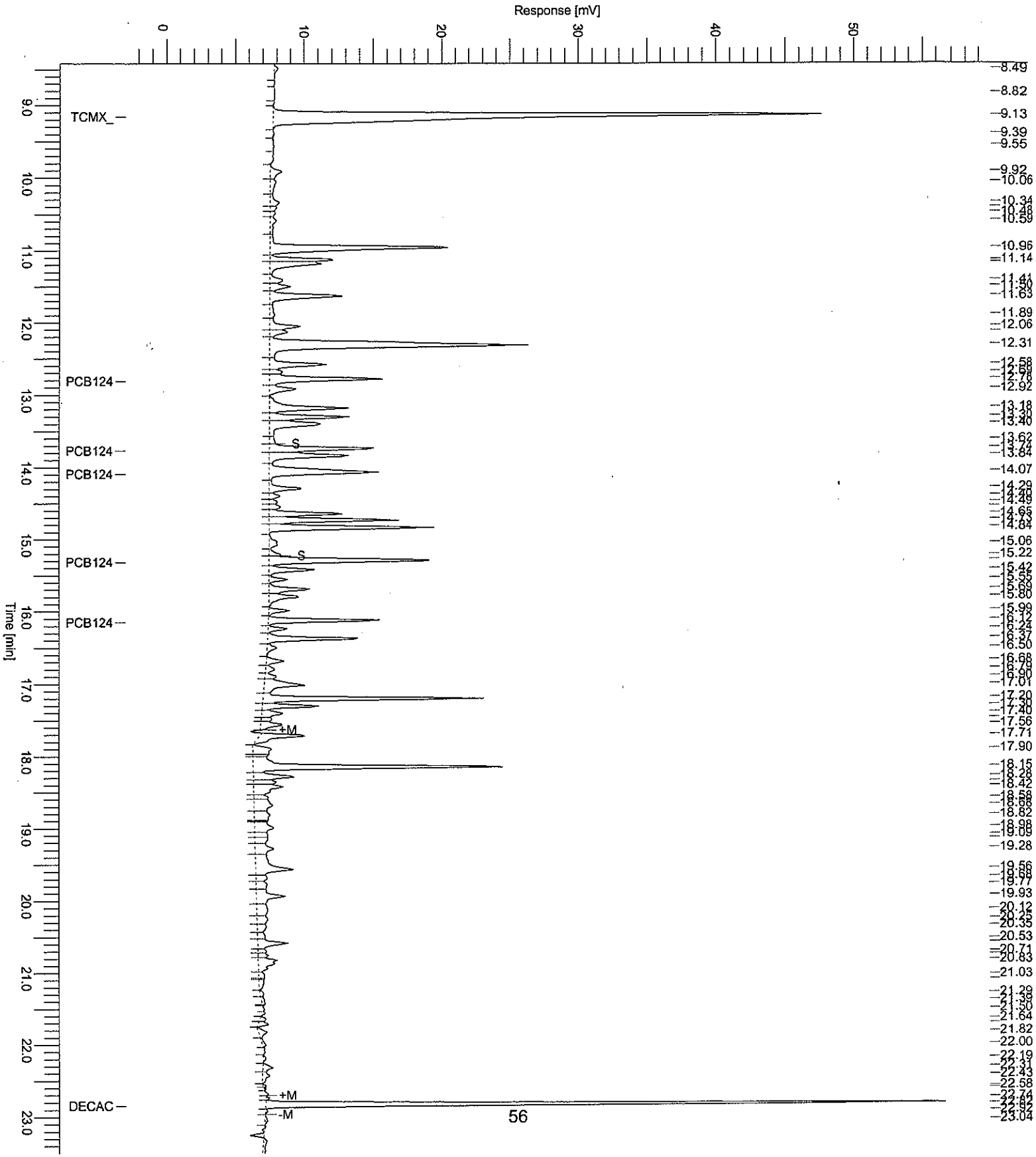
----------CURTIS & TOMPKINS LTD----------

PA 9/01/04

Report stored in ASCII file: G:\gc22\CHB\243b072q.TX0

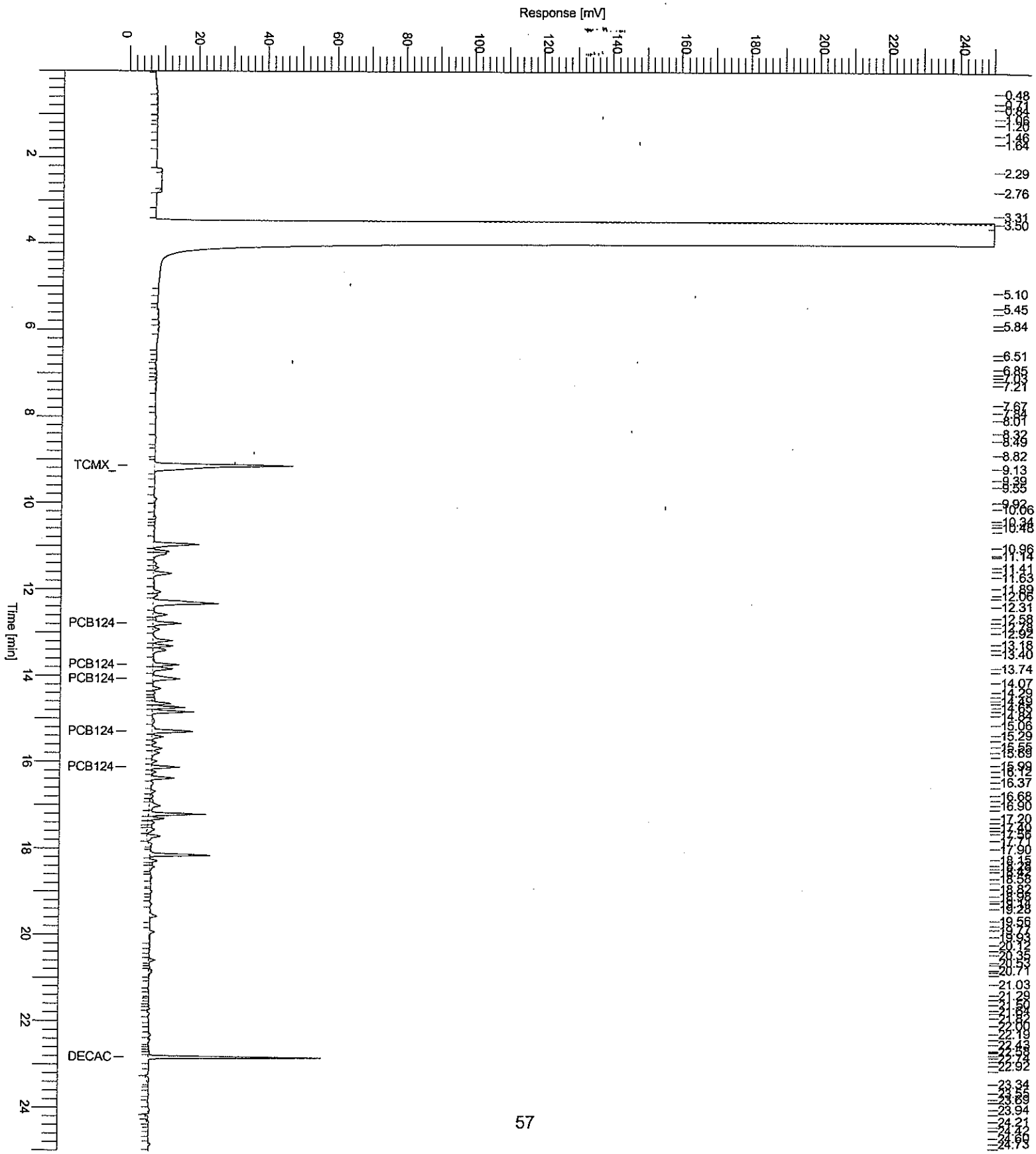
GC21 Rtx-CLPesticides II

Sample Name : 174320-004,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b072.raw
Date : 9/1/04 3:56:03 PM
Method : Time of Injection: 9/1/04 2:21:31 AM
Start Time : 8.42 min End Time : 23.50 min Low Point : -2.95 mV High Point : 59.91 mV
Plot Offset: -2.95 mV Plot Scale: 62.9 mV



GC21 Rtx-CLPesticides II

Sample Name : 174320-004,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b072
Date : 9/1/04 3:48:48 PM
Method : gc22ins Time of Injection: 9/1/04 2:21:31 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 250.00 mV
Plot Offset: 0.00 mV Plot Scale: 250.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-004,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 72

Date : 9/1/04 3:51:53 PM
Data Acquisition Time : 9/1/04 2:21:31 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a072q.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	8.822	174244.00	53.0397	0.674	1	35.74	7.15
Aroclor-1248	12.205	109805.08	360.0677	0.674	1	242.63	48.53
Decachlorobiphenyl_	22.355	84603.00	46.1636	0.674	1	31.11	6.22
		368652.08	459.2710			309.48	61.90

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.205	55182.17	840.9026	0.674	1	566.65	~~113.33~~
PCB1248#2	13.234	7941.33	169.3813	0.674	1	114.14	22.83
PCB1248#3	13.729	9449.06	95.7299	0.674	1	64.51	12.90
PCB1248#4	14.534	16418.40	287.9612	0.674	1	194.04	38.81
PCB1248#5	16.034	20814.12	566.7026	0.674	1	381.87	~~76.37~~
		109805.08	1960.6777			1321.21	264.24

PA 9/01/04

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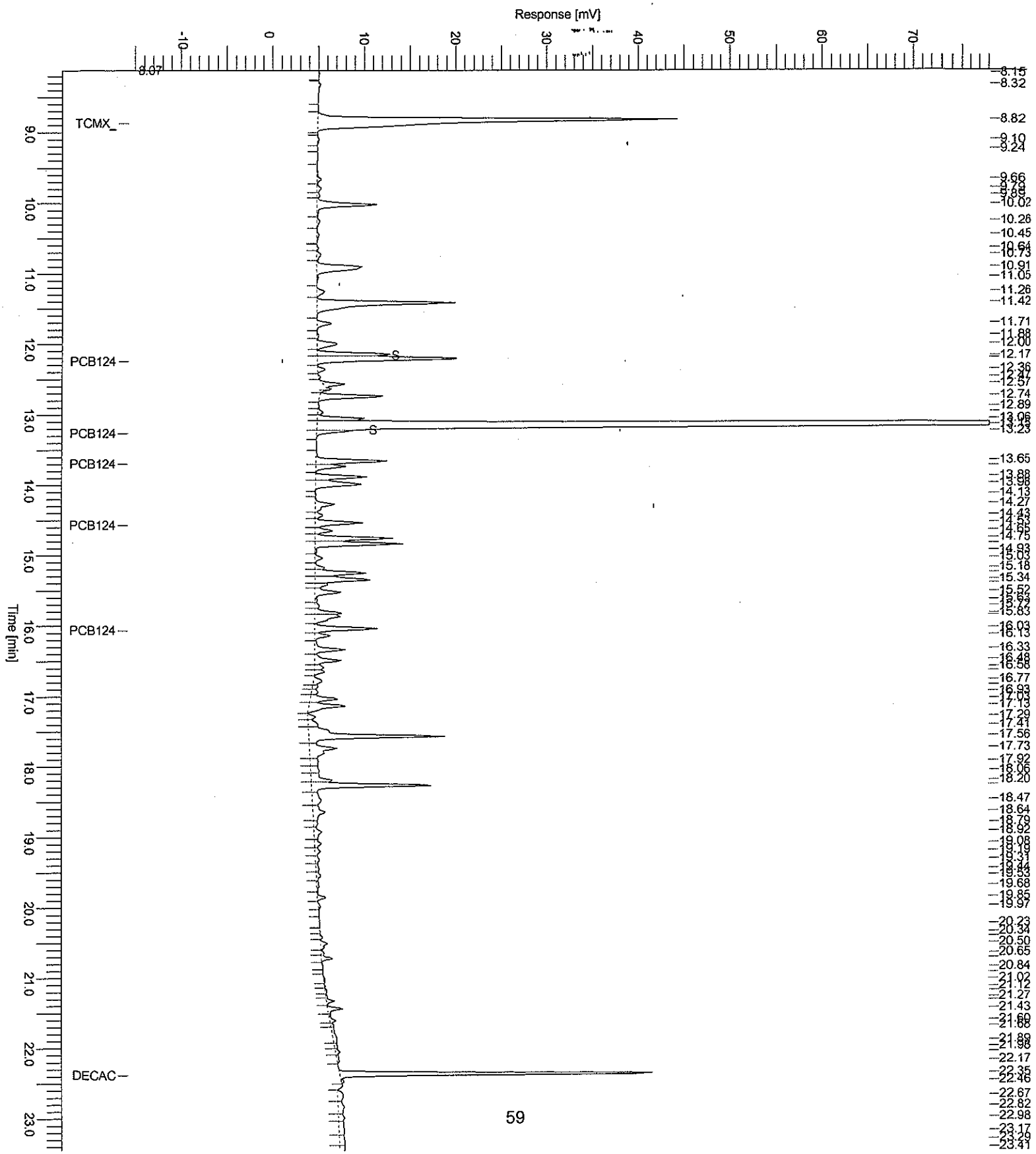
Report stored in ASCII file: G:\gc22\CHA\243a072q.TX0

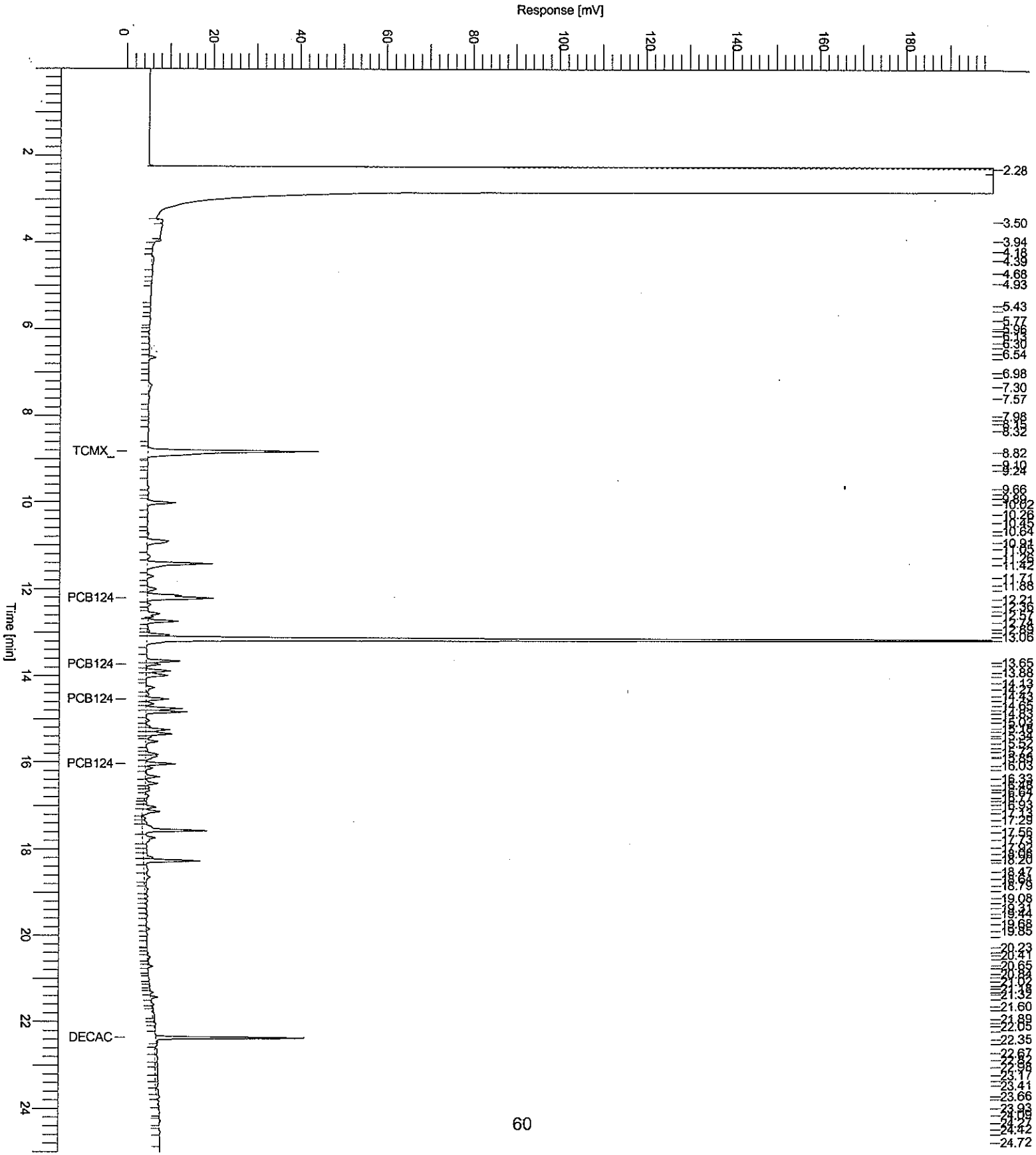
GC21 Rtx-CLPesticides

Sample Name : 174320-004,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a072.raw
Date : 9/1/04 3:51:57 PM
Method : Time of Injection: 9/1/04 2:21:31 AM
Start Time : 8.12 min End Time : 23.45 min Low Point : -15.78 mV High Point : 78.18 mV
Plot Offset: -15.78 mV Plot Scale: 94.0 mV



GC21 Rtx-CLPesticides

Sample Name : 174320-004,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a072.raw
Date : 9/1/04 3:48:58 PM
Method : gc22ins Time of Injection: 9/1/04 2:21:31 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 200.00 mV
Plot Offset: 0.00 mV Plot Scale: 200.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-004	Cident	: BB3EX120[0.5]
Seqnum	: 254350716072	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_072	Batchnum	: 94184	Injected	: 01-SEP-2004 02:21
IDF	: 1.0			Units	: ug/Kg

Prep: 14.84 g --> 10.0 ml = 0.6739 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=243_032	Flags
Aroclor-1016	A	254347030001	160		170	5%		9.7		x
Aroclor-1016 Peak # 1	A	254347030001		12.55	38.96	103%				
Aroclor-1016 Peak # 2	A	254347030001		336.43	159.03	72%				
Aroclor-1016 Peak # 3	A	254347030001		46.71	328.86	150%				
Aroclor-1016 Peak # 4	A	254347030001		210.14	97.49	73%				
Aroclor-1016 Peak # 5	A	254347030001		215.57	240.11	11%				
Aroclor-1221	A		ND					19		
Aroclor-1232	A		ND					9.7		
Aroclor-1242	A		ND					9.7		
Aroclor-1248	A		ND					9.7		
Aroclor-1254	A		ND					9.7		
Aroclor-1260	A	254347030001	21		26	20%		9.7		x
Aroclor-1260 Peak # 1	A	254347030001		21.00	53.28	87%				
Aroclor-1260 Peak # 2	A	254347030001		ND	15.59					
Aroclor-1260 Peak # 3	A	254347030001		57.68	25.64	77%				
Aroclor-1260 Peak # 4	A	254347030001		19.93	19.30	3%				
Aroclor-1260 Peak # 5	A	254347030001		7.17	15.62	74%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	33.69	35.74	106	65-135	
Decachlorobiphenyl	A	254347030001	33.69	31.11	92	65-135	

Need 48

x=false positive

Analyst: [signature] Date: 09/01/04 Reviewer: _____ Date: _____

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-004,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 72

Date : 9/1/04 1:53:25 PM
Data Acquisition Time : 9/1/04 2:21:31 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a072.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.822	174244.00	53.0397	0.674	1	35.74	7.15
Aroclor-1016	12.205	130945.65	287.4441	0.674	1	193.70	38.74
Aroclor-1260	18.473	18657.23	23.3052	0.674	1	15.70	3.14
Decachlorobiphenyl	22.355	84603.00	46.1636	0.674	1	31.11	6.22
		408449.88	409.9527			276.25	55.25

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.888	1089.67	18.6272	0.674	1	12.55	2.51
PCB1016#3	12.568	6690.00	69.3162	0.674	1	46.71	9.34
PCB1016#4	12.738	21555.50	311.8525	0.674	1	210.14	42.03
PCB1016#2	12.205	76766.54	499.2669	0.674	1	336.43	67.29
PCB1016#5	13.655	24843.94	319.9098	0.674	1	215.57	43.11
		130945.65	1218.9726			821.41	164.28

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.773	4142.01	31.1598	0.674	1	21.00	4.20
PCB1260#2	17.499	0.00	0.0000	0.674	1	0.00	0.00
PCB1260#3	18.473	8542.48	85.5957	0.674	1	57.68	11.54
PCB1260#4	19.084	3384.35	29.5712	0.674	1	19.93	3.99
PCB1260#5	19.845	2588.39	10.6424	0.674	1	7.17	1.43
		18657.23	156.9690			105.77	21.15

FA 9/1/04

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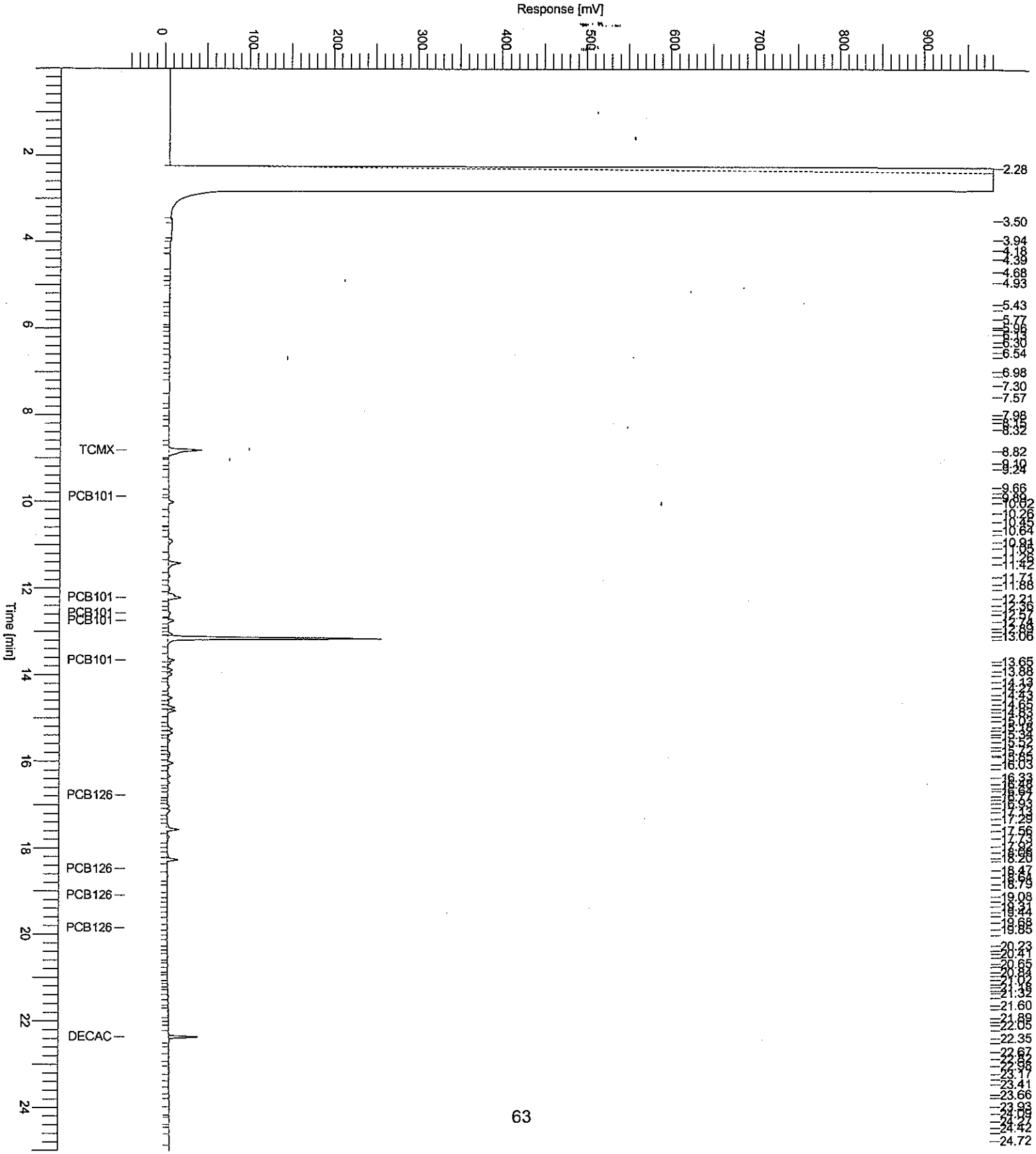
Report stored in ASCII file: G:\gc22\CHA\243a072.TX0

GC22 Rtx-CLPesticides

Sample Name : 174320-004,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a072.raw
Date : 9/1/04 1:53:28 PM
Method : gc22ins Time of Injection: 9/1/04 2:21:31 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -45.08 mV High Point : 980.94 mV
Scale Factor: 1.0 Plot Offset: -45.08 mV Plot Scale: 1026.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-004,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 72

Date : 9/1/04 2:57:05 PM
Data Acquisition Time : 9/1/04 2:21:31 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b072p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.134	186251.00	51.1454	0.674	1	34.46	6.89
Aroclor-1016	12.314	155476.34	302.0645	0.674	1	203.55	40.71
Aroclor-1260	17.011	33382.69	36.4365	0.674	1	24.55	4.91
Decachlorobiphenyl	22.820	116904.46	47.6984	0.674	1	32.14	6.43
		492014.50	437.3448			294.71	58.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.057	3430.22	57.8194	0.674	1	38.96	7.79
PCB1016#2	11.633	20695.76	235.9975	0.674	1	159.03	31.81
PCB1016#3	12.314	87473.17	488.0240	0.674	1	328.86	65.77
PCB1016#4	12.583	15907.04	144.6678	0.674	1	97.48	19.50
PCB1016#5	13.739	27970.16	356.3260	0.674	1	240.11	48.02
		155476.34	1282.8347			864.44	172.89

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.011	13725.77	79.0643	0.674	1	53.28	10.66
PCB1260#2	17.556	4295.57	23.1333	0.674	1	15.59	3.12
PCB1260#3	18.676	4467.28	38.0516	0.674	1	25.64	5.13
PCB1260#4	19.279	3697.21	28.6473	0.674	1	19.30	3.86
PCB1260#5	19.932	7196.86	23.1830	0.674	1	15.62	3.12
		33382.69	192.0796			129.43	25.89

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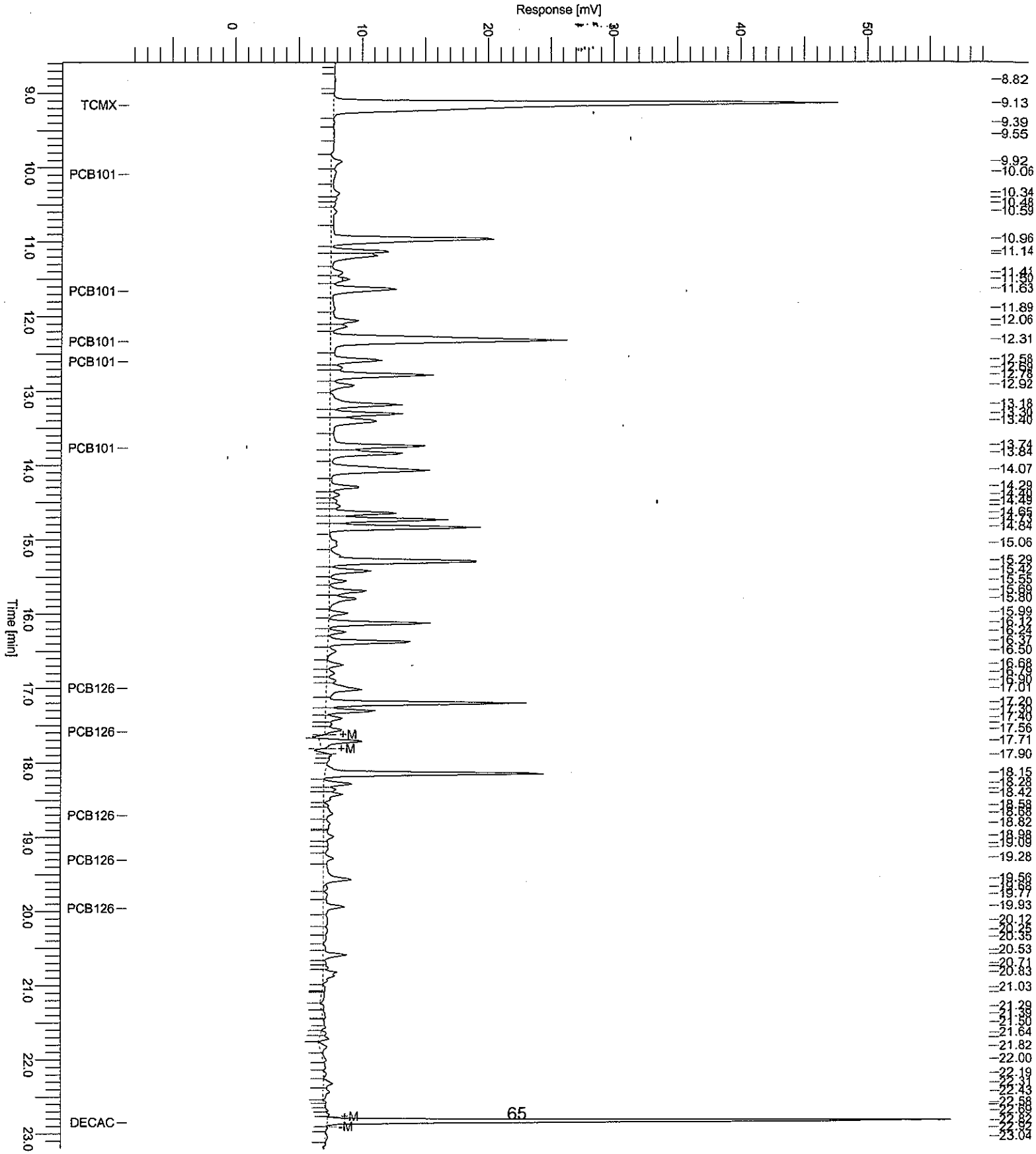
Report stored in ASCII file: G:\gc22\CHB\243b072p.TX0

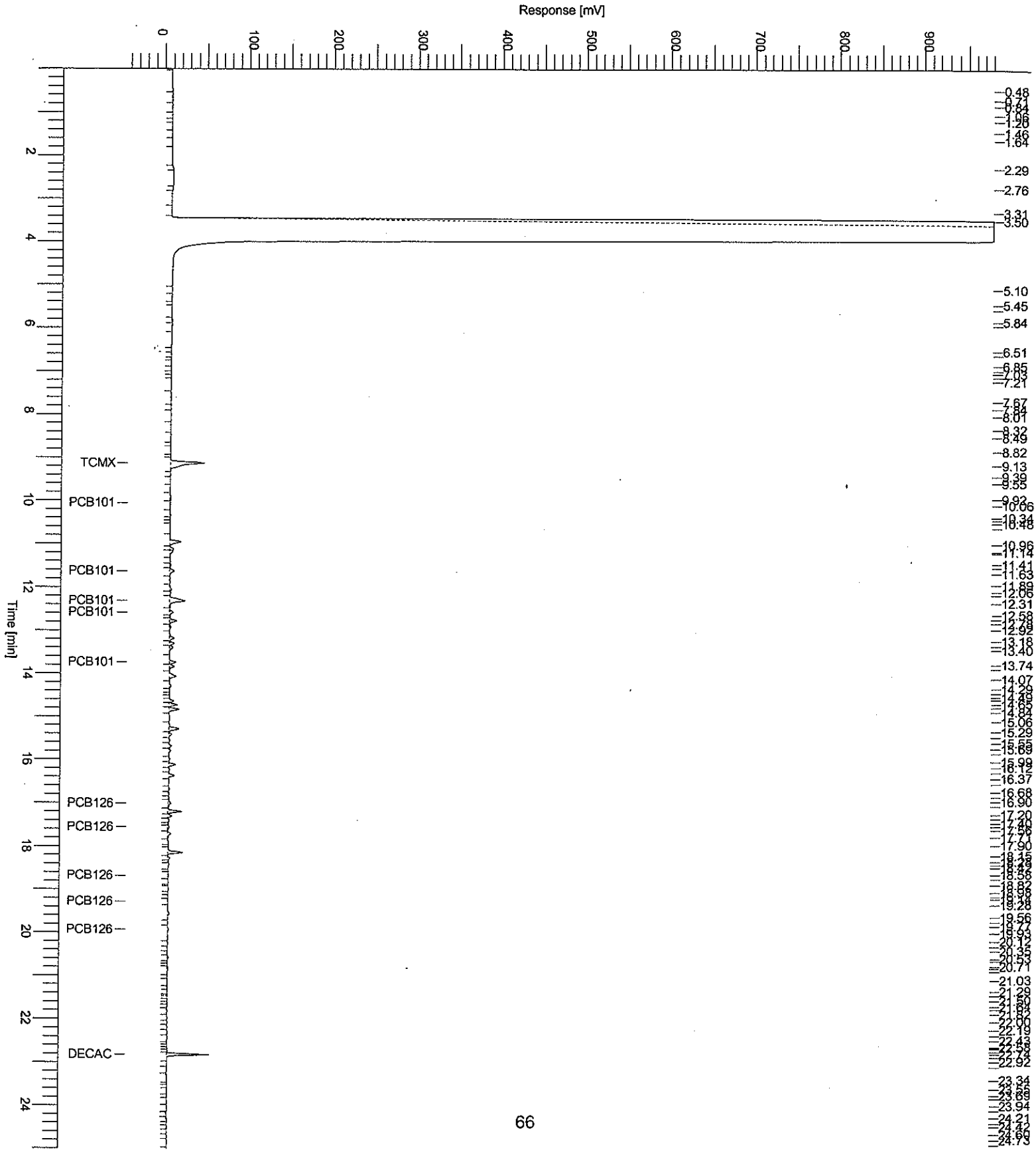
GC22 Rtx-CLPesticides II

Sample Name : 174320-004,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b072.raw
Date : 9/1/04 2:57:10 PM
Method : Time of Injection: 9/1/04 2:21:31 AM
Start Time : 8.58 min End Time : 23.20 min Low Point : -8.47 mV High Point : 59.72 mV
Plot Offset: -8.47 mV Plot Scale: 68.2 mV



GC22 Rtx-CLPesticides II

Sample Name : 174320-004,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b072
Date : 9/1/04 1:53:43 PM
Method : gc22ins Time of Injection: 9/1/04 2:21:31 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -42.71 mV High Point : 980.29 mV
Scale Factor: 1.0 Plot Offset: -42.71 mV Plot Scale: 1023.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-005	Cident	: DUP083004A
Seqnum	: 254350716073	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_073	Batchnum	: 94184	Injected	: 01-SEP-2004 02:49
IDF	: 1.0			Units	: ug/Kg

Prep: 14.90 g --> 10.0 ml = 0.6711 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=243_032	Flags
Aroclor-1016	A	254347030001	79		87	10%		9.7		x
Aroclor-1016 Peak # 1	A	254347030001	4.18		13.56	106%				
Aroclor-1016 Peak # 2	A	254347030001	157.43		79.24	66%				
Aroclor-1016 Peak # 3	A	254347030001	19.22		167.44	159%				
Aroclor-1016 Peak # 4	A	254347030001	101.79		47.25	73%				
Aroclor-1016 Peak # 5	A	254347030001	112.43		127.15	12%				
Aroclor-1221	A		ND					19		
Aroclor-1232	A		ND					9.7		
Aroclor-1242	A		ND					9.7		
Aroclor-1248	B	254350716002	110		66	50%		9.7		?v
Aroclor-1248 Peak # 1	B	254350716002				21%				o
Aroclor-1248 Peak # 2	B	254350716002	89.97		57.06	45%				
Aroclor-1248 Peak # 3	B	254350716002	107.03		33.46	105%				
Aroclor-1248 Peak # 4	B	254350716002	132.35		106.83	21%				
Aroclor-1248 Peak # 5	B	254350716002				13%				o
Aroclor-1254	A		ND					9.7		
Aroclor-1260	A	254347030001	ND					9.7		
Aroclor-1260 Peak # 1	A	254347030001	15.06		34.70	79%				
Aroclor-1260 Peak # 2	A	254347030001	ND		13.08					
Aroclor-1260 Peak # 3	A	254347030001	9.04		9.01	0%				
Aroclor-1260 Peak # 4	A	254347030001	4.75		8.05	52%				
Aroclor-1260 Peak # 5	A	254347030001	3.84		10.12	90%				

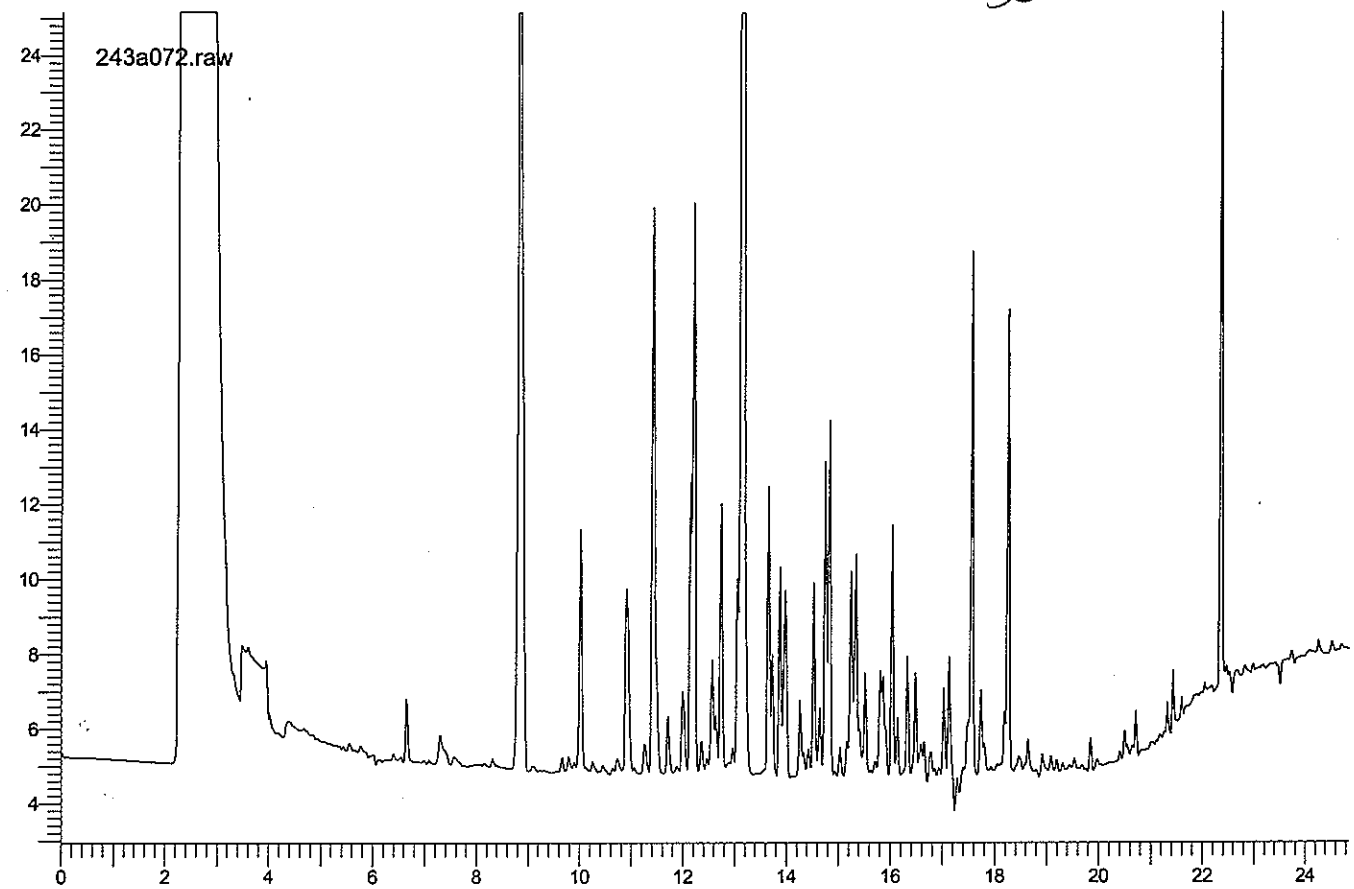
Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	33.56	30.55	91	65-135	
Decachlorobiphenyl	A	254347030001	33.56	29.41	88	65-135	

?=missing o=omit component v=ICV out x=false positive

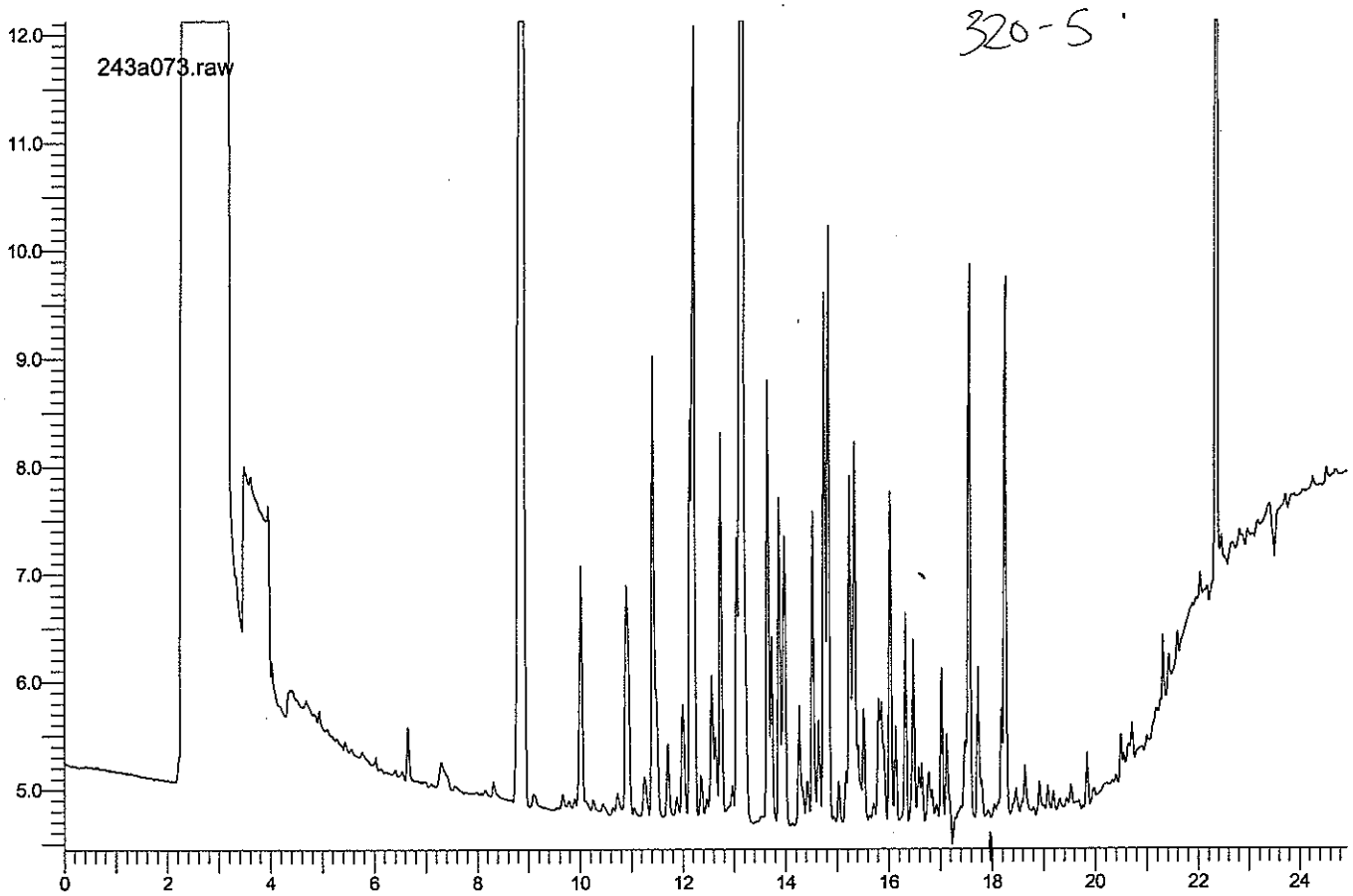
Analyst: [signature] Date: 09/01/04 Reviewer: mas Date: 9/1/04

Page 1 of 1

320-4



320-5



the same as 320-68

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-005,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 73

Date : 9/1/04 3:57:15 PM
Data Acquisition Time : 9/1/04 2:49:50 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b073q.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	9.135	169482.65	46.5407	0.671	1	31.24	6.25
Aroclor-1248	15.290	91644.96	196.5360	0.671	1	131.90	26.38
Decachlorobiphenyl_	22.820	122062.69	49.8030	0.671	1	33.42	6.68
		383190.29	292.8797			196.56	39.31

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.783	15294.29	495.2858	0.671	1	332.41	~~66.48~~
PCB1248#2	13.740	14871.85	134.0621	0.671	1	89.97	17.99
PCB1248#3	14.065	21514.78	159.4680	0.671	1	107.03	21.41
PCB1248#4	15.290	26748.18	197.1977	0.671	1	132.35	26.47
PCB1248#5	16.121	13215.85	245.0492	0.671	1	164.46	~~32.89~~
		91644.96	1231.0628			826.22	165.24

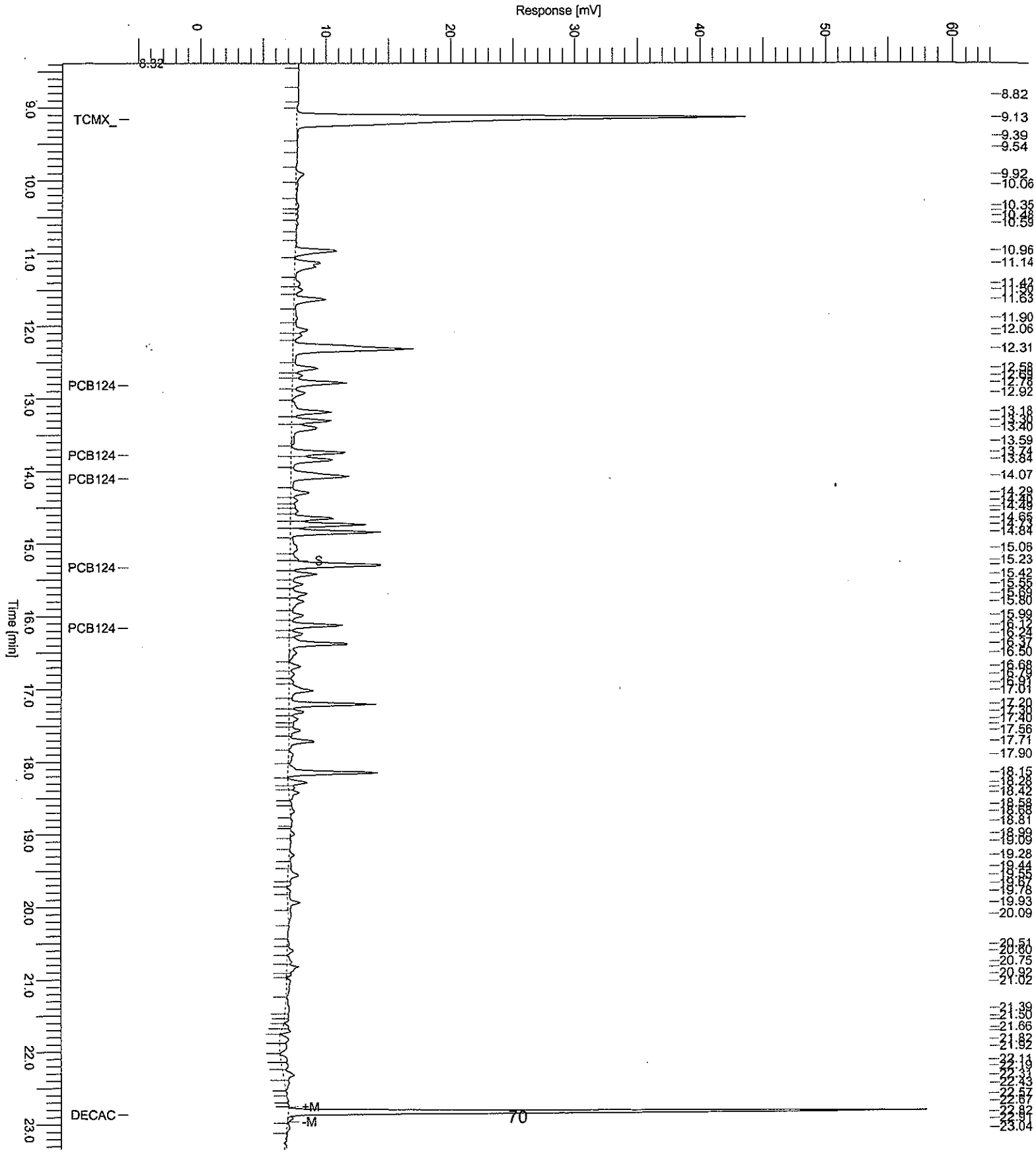
PA 9/01/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b073q.TX0

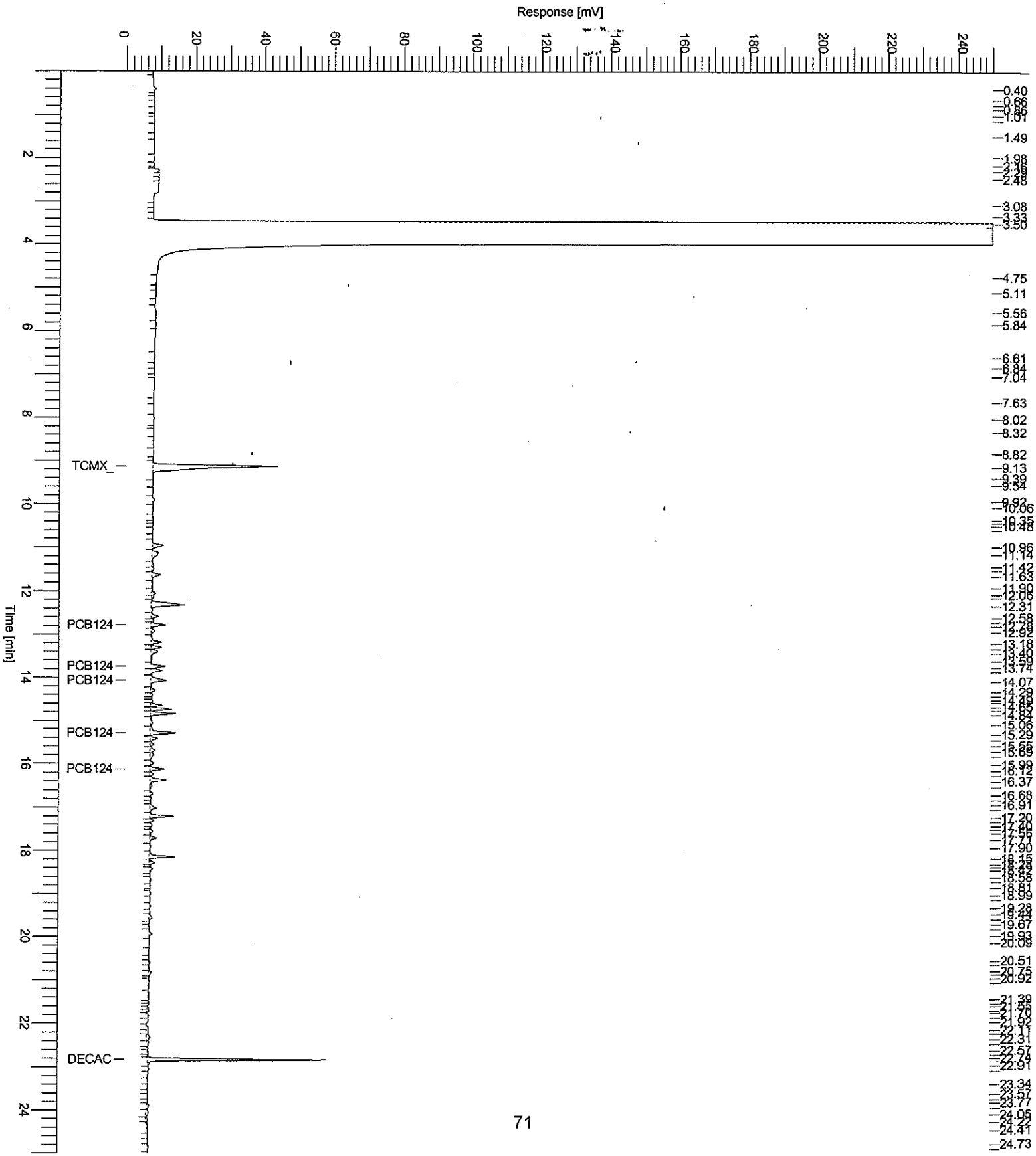
GC21 Rtx-CLPesticides II

Sample Name : 174320-005,94184 Sample #: 94184
FileName : G:\gc22\chb\243b073.raw
Date : 9/1/04 3:57:19 PM
Method : Time of Injection: 9/1/04 2:49:50 AM
Start Time : 8.38 min End Time : 23.33 min Low Point : -5.74 mV High Point : 63.13 mV
Plot Offset: -5.74 mV Plot Scale: 68.9 mV



GC21 Rtx-CLPesticides II

Sample Name : 174320-005,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b073
Date : 9/1/04 3:48:53 PM
Method : gc22ins Time of Injection: 9/1/04 2:49:50 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 250.00 mV
Plot Offset: 0.00 mV Plot Scale: 250.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-005,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 73

Date : 9/1/04 3:54:27 PM
Data Acquisition Time : 9/1/04 2:49:50 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a073q.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	8.823	149531.30	45.5171	0.671	1	30.55	6.11
Aroclor-1248	12.210	54549.05	178.8747	0.671	1	120.05	24.01
Decachlorobiphenyl_	22.355	84491.64	46.1029	0.671	1	30.94	6.19
		288571.98	270.4947			181.54	36.31

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.210	26364.82	401.7647	0.671	1	269.64	~~53.93~~
PCB1248#2	13.234	3986.34	85.0249	0.671	1	57.06	11.41
PCB1248#3	13.730	4921.11	49.8566	0.671	1	33.46	6.69
PCB1248#4	14.533	9075.55	159.1754	0.671	1	106.83	21.37
PCB1248#5	16.034	10201.23	277.7470	0.671	1	186.41	~~37.28~~
		54549.05	973.5686			653.40	130.68

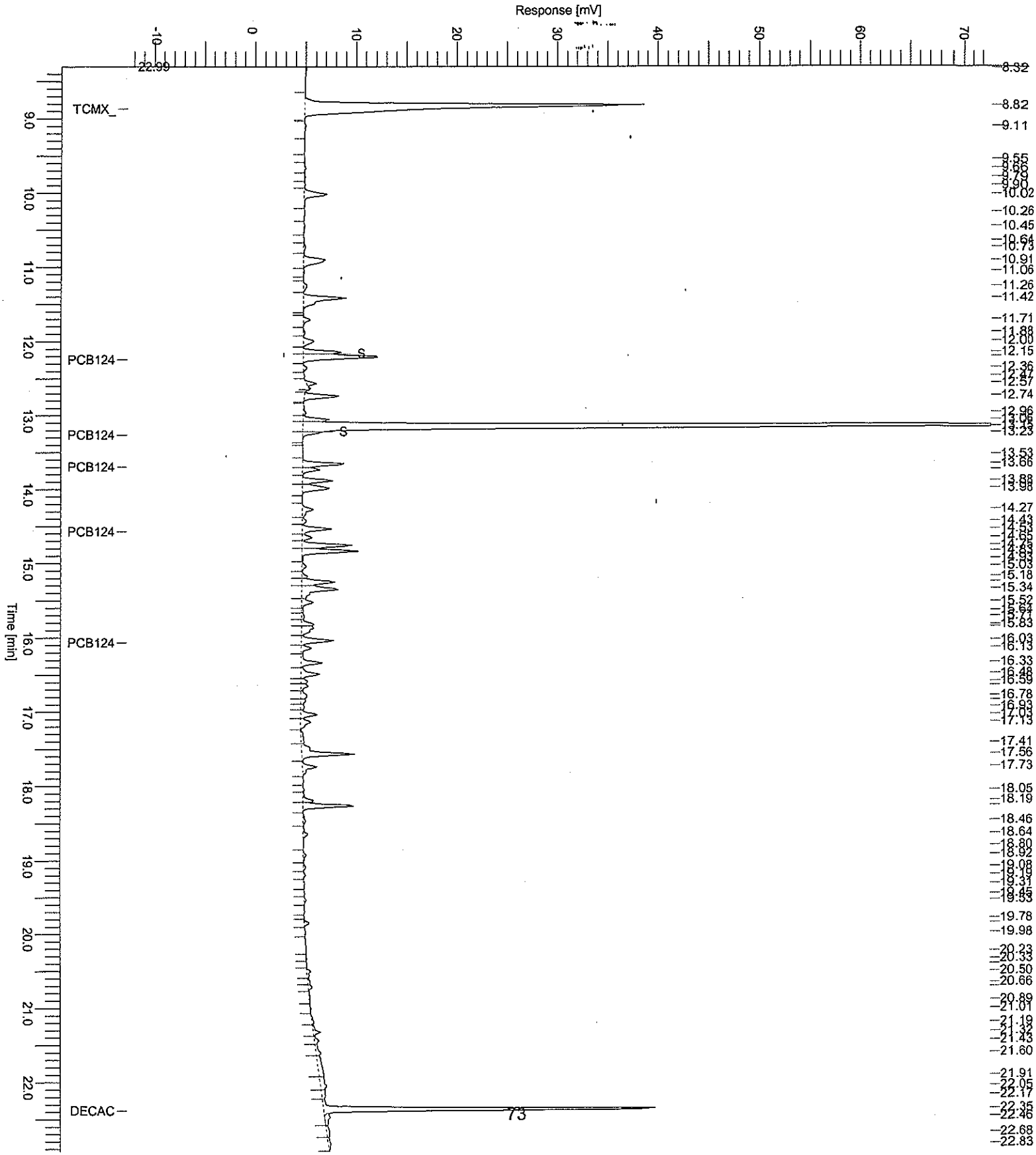
PA. 9/01/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\243a073q.TX0

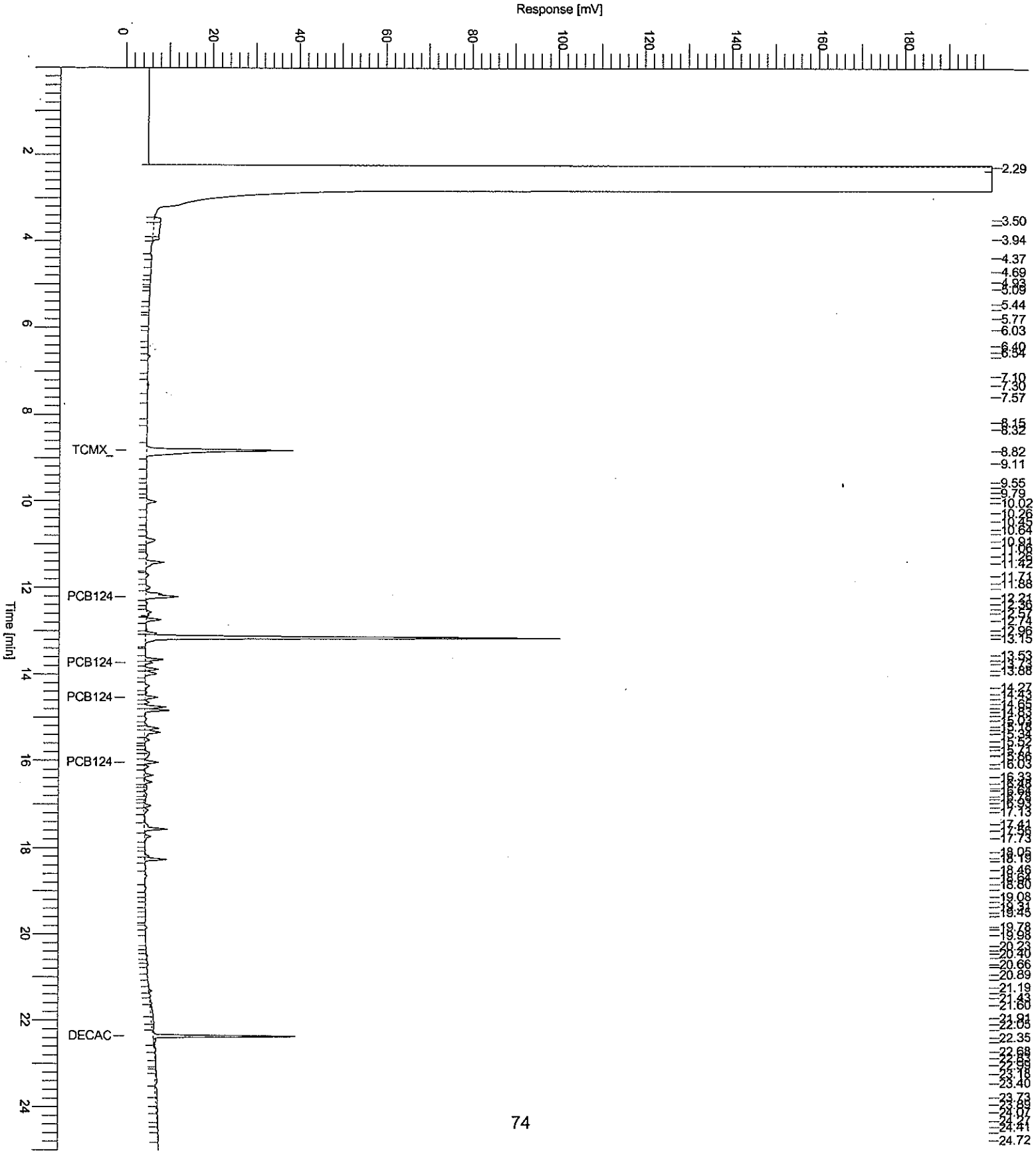
GC21 Rtx-CLPesticides

'Sample Name : 174320-005,94184 Sample #: 94184
FileName : G:\gc22\cha\243a073.raw
Date : 9/1/04 3:54:32 PM
Method : Time of Injection: 9/1/04 2:49:50 AM
Start Time : 8.30 min End Time : 22.93 min Low Point : -12.66 mV High Point : 72.87 mV
Plot Offset: -12.66 mV Plot Scale: 85.5 mV



GC21 Rtx-CLPesticides

Sample Name : 174320-005,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a073.raw
Date : 9/1/04 3:49:03 PM
Method : gc22ins Time of Injection: 9/1/04 2:49:50 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 200.00 mV
Plot Offset: 0.00 mV Plot Scale: 200.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-005	Cident	: DUP083004A
Seqnum	: 254350716073	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_073	Batchnum	: 94184	Injected	: 01-SEP-2004 02:49
IDF	: 1.0			Units	: ug/Kg

Prep: 14.90 g --> 10.0 ml = 0.6711 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B-243_032	Flags
Aroclor-1016.....	A	254347030001	79		87		10%		9.7		x
Aroclor-1016 Peak # 1.....	A	254347030001		4.18		13.56	106%				
Aroclor-1016 Peak # 2.....	A	254347030001		157.43		79.24	66%				
Aroclor-1016 Peak # 3.....	A	254347030001		19.22		167.44	159%				
Aroclor-1016 Peak # 4.....	A	254347030001		101.79		47.25	73%				
Aroclor-1016 Peak # 5.....	A	254347030001		112.43		127.15	12%				
Aroclor-1221	A		ND						19		
Aroclor-1232	A		ND						9.7		
Aroclor-1242	A		ND						9.7		
Aroclor-1248	A		ND						9.7		
Aroclor-1254	A		ND						9.7		
Aroclor-1260	A	254347030001	ND						9.7		
Aroclor-1260 Peak # 1.....	A	254347030001		15.06		34.70	79%				
Aroclor-1260 Peak # 2	A	254347030001		ND		13.08					
Aroclor-1260 Peak # 3.....	A	254347030001		9.04		9.01	0%				
Aroclor-1260 Peak # 4.....	A	254347030001		4.75		8.05	52%				
Aroclor-1260 Peak # 5.....	A	254347030001		3.84		10.12	90%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	33.56	30.55	91	65-135	
Decachlorobiphenyl	A	254347030001	33.56	29.41	88	65-135	

Need 4R

x=false positive

Analyst: [signature] Date: 09/01/04 Reviewer: _____ Date: _____

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-005,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 73

Date : 9/1/04 2:54:37 PM
Data Acquisition Time : 9/1/04 2:49:50 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a073p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.823	149531.30	45.5171	0.671	1	30.55	6.11
Aroclor-1016	12.210	62688.98	137.6111	0.671	1	92.36	18.47
Aroclor-1260	16.780	6527.95	8.1542	0.671	1	5.47	1.09
Decachlorobiphenyl	22.355	80307.76	43.8199	0.671	1	29.41	5.88
		299055.99	235.1024			157.79	31.56

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.897	364.39	6.2289	0.671	1	4.18	0.84
PCB1016#3	12.568	2764.00	28.6383	0.671	1	19.22	3.84
PCB1016#4	12.738	10483.50	151.6692	0.671	1	101.79	20.36
PCB1016#2	12.210	36067.46	234.5721	0.671	1	157.43	31.49
PCB1016#5	13.655	13009.64	167.5221	0.671	1	112.43	22.49
		62688.98	588.6306			395.05	79.01

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.780	2983.64	22.4455	0.671	1	15.06	3.01
PCB1260#2	17.499	0.00	0.0000	0.671	1	0.00	0.00
PCB1260#3	18.465	1344.72	13.4741	0.671	1	9.04	1.81
PCB1260#4	19.085	809.42	7.0724	0.671	1	4.75	0.95
PCB1260#5	19.846	1390.17	5.7158	0.671	1	3.84	0.77
		6527.95	48.7078			32.69	6.54

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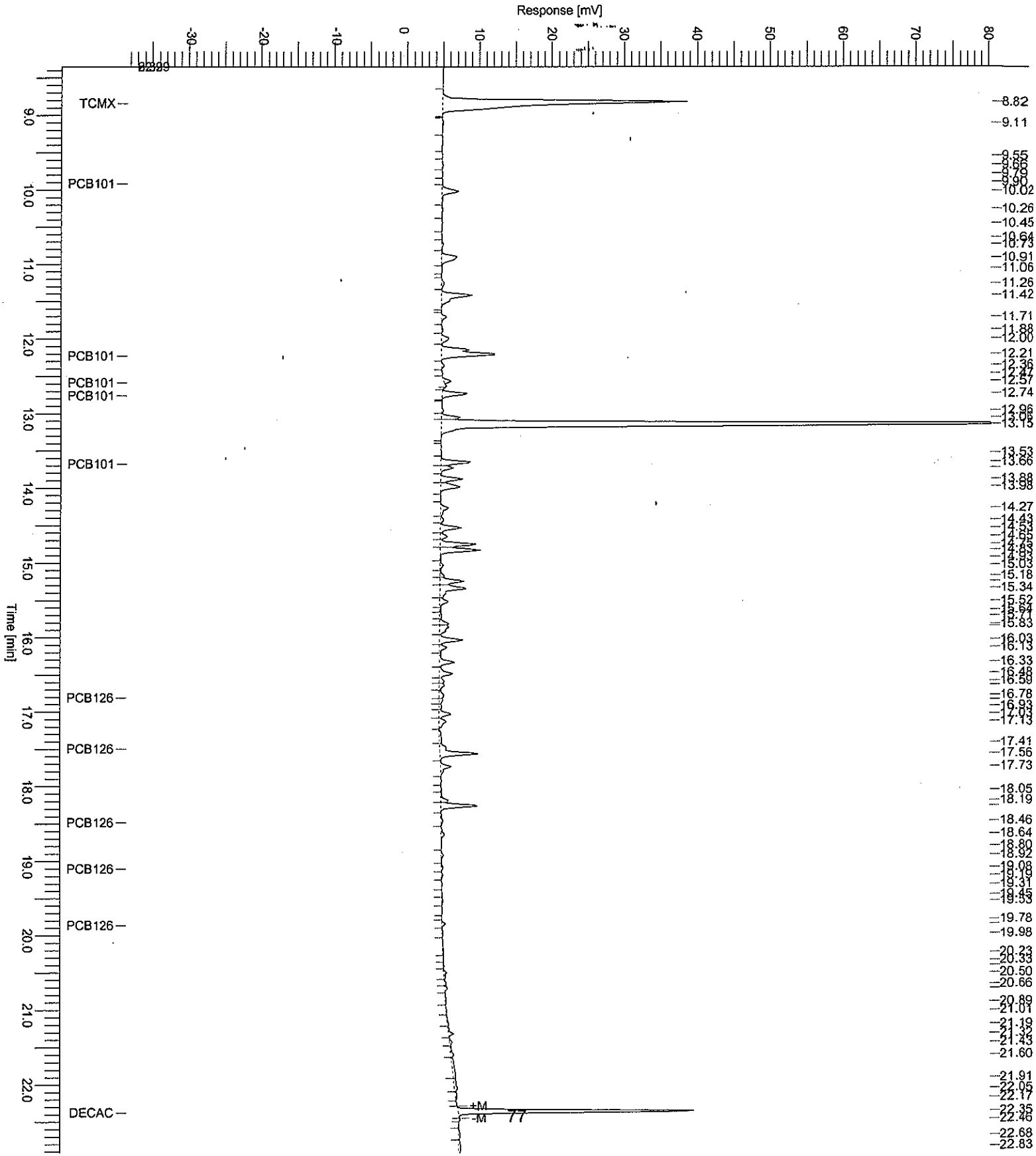
Report stored in ASCII file: G:\gc22\CHA\243a073p.TX0

FA 9/01/04

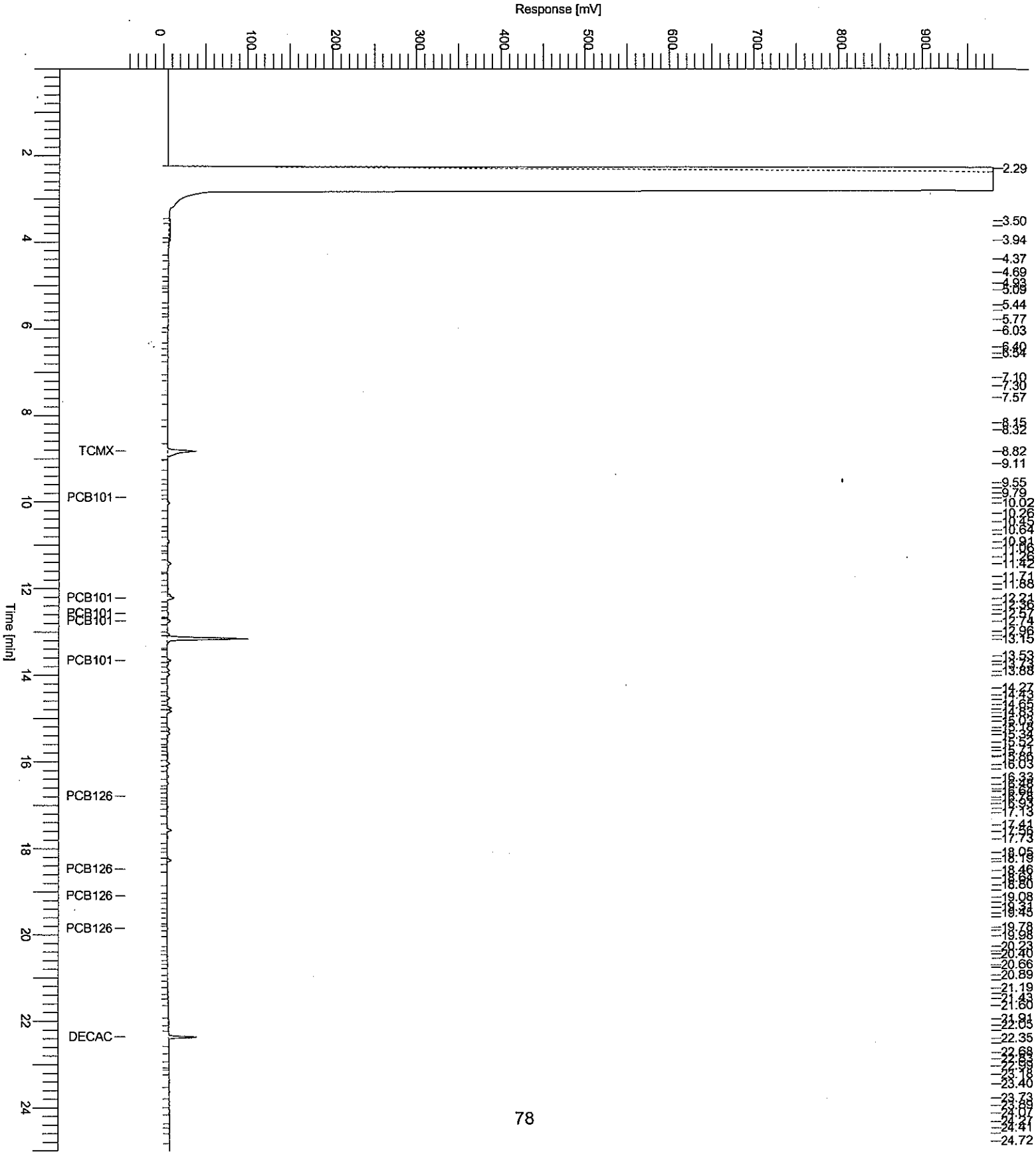
GC22 Rtx-CLPesticides

Sample Name : 174320-005,94184 Sample #: 94184
FileName : G:\gc22\cha\243a073.raw
Date : 9/1/04 2:54:41 PM
Method :
Time of Injection: 9/1/04 2:49:50 AM
Start Time : 8.35 min End Time : 22.92 min Low Point : -38.46 mV High Point : 80.45 mV
Plot Offset: -38.46 mV Plot Scale: 118.9 mV



GC22 Rtx-CLPesticides

Sample Name : 174320-005,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a073.raw
Date : 9/1/04 1:53:33 PM
Method : gc22ins Time of Injection: 9/1/04 2:49:50 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -44.34 mV High Point : 980.94 mV
Scale Factor: 1.0 Plot Offset: -44.34 mV Plot Scale: 1025.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-005,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 73

Date : 9/1/04 1:53:45 PM
Data Acquisition Time : 9/1/04 2:49:50 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b073.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.135	169482.65	46.5407	0.671	1	31.24	6.25
Aroclor-1016	12.315	78882.43	153.2554	0.671	1	102.86	20.57
Aroclor-1260	17.013	20397.12	22.2631	0.671	1	14.94	2.99
Decachlorobiphenyl	22.820	124123.86	50.6440	0.671	1	33.99	6.80
		392886.07	272.7031			183.02	36.60

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.056	1198.75	20.2060	0.671	1	13.56	2.71
PCB1016#2	11.633	10354.26	118.0715	0.671	1	79.24	15.85
PCB1016#3	12.315	44716.70	249.4802	0.671	1	167.44	33.49
PCB1016#4	12.583	7740.87	70.4000	0.671	1	47.25	9.45
PCB1016#5	13.740	14871.85	189.4600	0.671	1	127.15	25.43
		78882.43	647.6177			434.64	86.93

Group Report For : Aroclor-1260

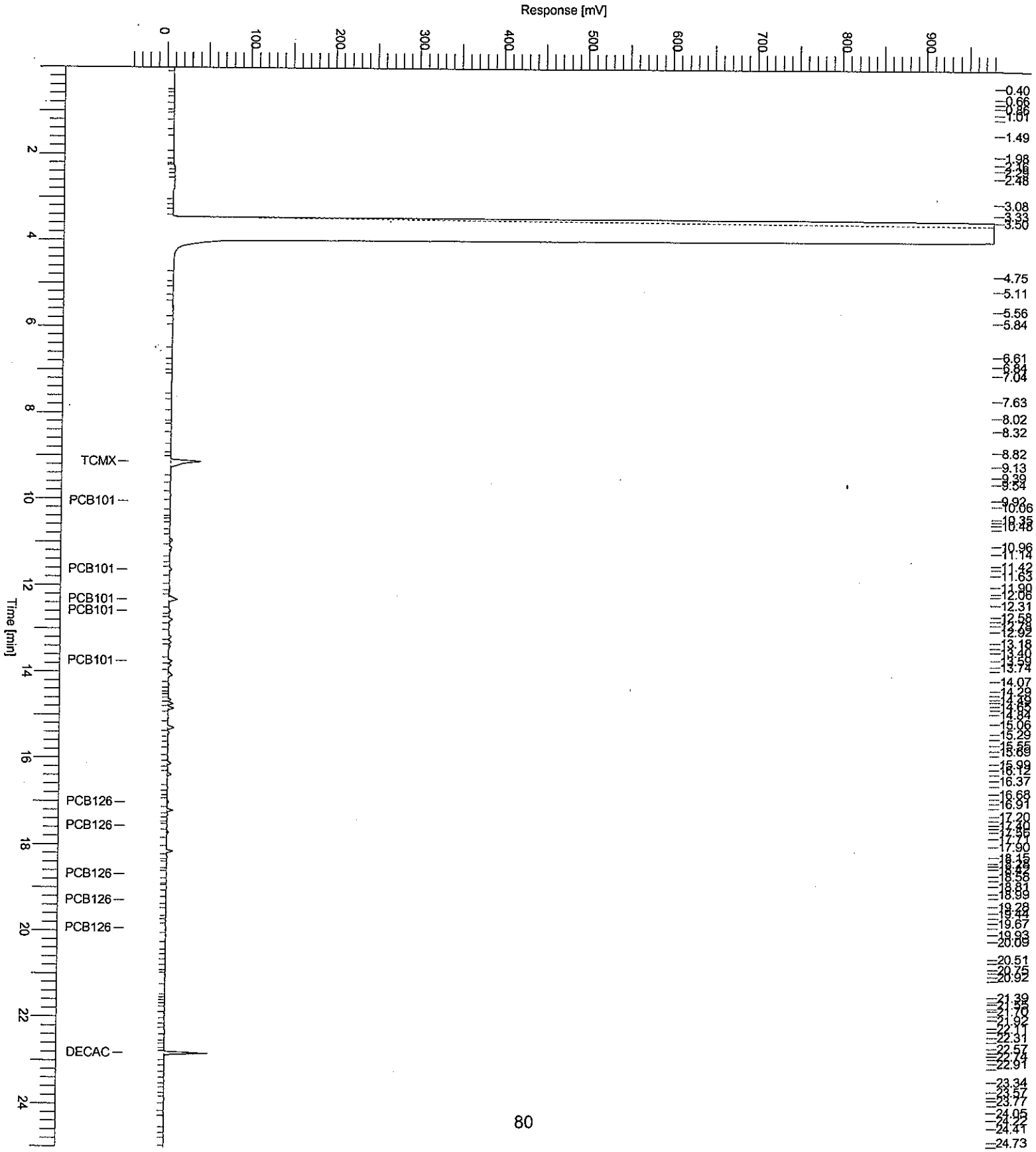
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.013	8974.85	51.6977	0.671	1	34.70	6.94
PCB1260#2	17.561	3618.39	19.4864	0.671	1	13.08	2.62
PCB1260#3	18.679	1576.23	13.4261	0.671	1	9.01	1.80
PCB1260#4	19.280	1547.05	11.9871	0.671	1	8.05	1.61
PCB1260#5	19.934	4680.61	15.0775	0.671	1	10.12	2.02
		20397.12	111.6747			74.95	14.99

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b073.TX0

GC22 Rtx-CLPesticides II

Sample Name : 174320-005,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b073
Date : 9/1/04 1:53:48 PM
Method : gc22ins Time of Injection: 9/1/04 2:49:50 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -42.54 mV High Point : 980.29 mV
Scale Factor: 1.0 Plot Offset: -42.54 mV Plot Scale: 1022.8 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-006	Cident	: BB3EX121[0.5]
Seqnum	: 254350716082	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_082	Batchnum	: 94184	Injected	: 01-SEP-2004 07:04
IDF	: 1.0			Units	: ug/Kg

Prep: 14.59 g --> 10.0 ml = 0.6854 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B-243_032	Flags
Aroclor-1016	A	254347030001	ND					9.9		u
Aroclor-1016 Peak # 1	A	254347030001		ND	ND					
Aroclor-1016 Peak # 2	A	254347030001		ND	ND					
Aroclor-1016 Peak # 3	A	254347030001		0.60	ND					
Aroclor-1016 Peak # 4	A	254347030001		ND	2.28					
Aroclor-1016 Peak # 5	A	254347030001		ND	ND					
Aroclor-1221	A		ND					20		u
Aroclor-1232	A		ND					9.9		u
Aroclor-1242	A		ND					9.9		u
Aroclor-1248	A		ND					9.9		u
Aroclor-1254	A		ND					9.9		u
Aroclor-1260	A	254347030001	ND					9.9		u
Aroclor-1260 Peak # 1	A	254347030001		3.81	ND					
Aroclor-1260 Peak # 2	A	254347030001		0.76	13.54	179%				
Aroclor-1260 Peak # 3	A	254347030001		ND	2.14					
Aroclor-1260 Peak # 4	A	254347030001		0.71	ND					
Aroclor-1260 Peak # 5	A	254347030001		2.11	11.25	137%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	34.27	30.07	88	65-135	u
Decachlorobiphenyl	A	254347030001	34.27	26.41	77	65-135	u

u=use

Analyst: [signature] Date: 09/03/04 Reviewer: [signature] Date: 9/9/04

Page 1 of 1

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	174320-006	Cident	: BB3EX121[0.5]
Seqnum	: 254350716082	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 243_082	Batchnum	: 94184	Injected	: 01-SEP-2004 07:04
IDF	: 1.0			Units	: ug/Kg

Prep: 14.59 g --> 10.0 ml = 0.6854 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=243_032	Flags
Aroclor-1016	A	254347030001	ND					9.9		?>c
Aroclor-1016 Peak # 1	A	254347030001		ND	ND					
Aroclor-1016 Peak # 2	A	254347030001		ND	ND					
Aroclor-1016 Peak # 3.....A		254347030001		0.60	ND					
Aroclor-1016 Peak # 4	A	254347030001		ND	2.28					
Aroclor-1016 Peak # 5	A	254347030001		ND	ND					
Aroclor-1221	A		ND					20		
Aroclor-1232	A		ND					9.9		
Aroclor-1242	A		ND					9.9		
Aroclor-1248	A		ND					9.9		
Aroclor-1254	A		ND					9.9		
Aroclor-1260	A	254347030001	ND					9.9		?>c
Aroclor-1260 Peak # 1.....A		254347030001		3.81	ND					
Aroclor-1260 Peak # 2.....A		254347030001		0.76	13.54	179%				
Aroclor-1260 Peak # 3	A	254347030001		ND	2.14					
Aroclor-1260 Peak # 4.....A		254347030001		0.71	ND					
Aroclor-1260 Peak # 5.....A		254347030001		2.11	11.25	137%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	254347030001	34.27	30.07	88	65-135	?>c
Decachlorobiphenyl	A	254347030001	34.27	26.41	77	65-135	?>c

Need CCV closing

>=closing ?=missing c=CCV

Analyst: [signature] Date: 09/01 Reviewer: [signature] Date: 9/1/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-006,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 82

Date : 9/1/04 2:55:29 PM
Data Acquisition Time : 9/1/04 7:04:41 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a082p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.825	144139.00	43.8757	0.685	1	30.07	6.01
Aroclor-1016	12.546	84.18	0.1848	0.685	1	0.13	0.03
Aroclor-1260	19.847	1841.01	2.2997	0.685	1	1.58	0.32
Decachlorobiphenyl	22.355	70623.51	38.5357	0.685	1	26.41	5.28
		216687.70	84.8959			58.19	11.64

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.914	0.00	0.0000	0.685	1	0.00	0.00
PCB1016#3	12.546	84.18	0.8722	0.685	1	0.60	0.12
PCB1016#4	12.760	0.00	0.0000	0.685	1	0.00	0.00
PCB1016#2	12.228	0.00	0.0000	0.685	1	0.00	0.00
PCB1016#5	13.677	0.00	0.0000	0.685	1	0.00	0.00
		84.18	0.8722			0.60	0.12

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.771	738.50	5.5556	0.685	1	3.81	0.76
PCB1260#2	17.469	233.00	1.1086	0.685	1	0.76	0.15
PCB1260#3	18.482	0.00	0.0000	0.685	1	0.00	0.00
PCB1260#4	19.063	119.00	1.0398	0.685	1	0.71	0.14
PCB1260#5	19.847	750.51	3.0858	0.685	1	2.11	0.42
		1841.01	10.7898			7.40	1.48

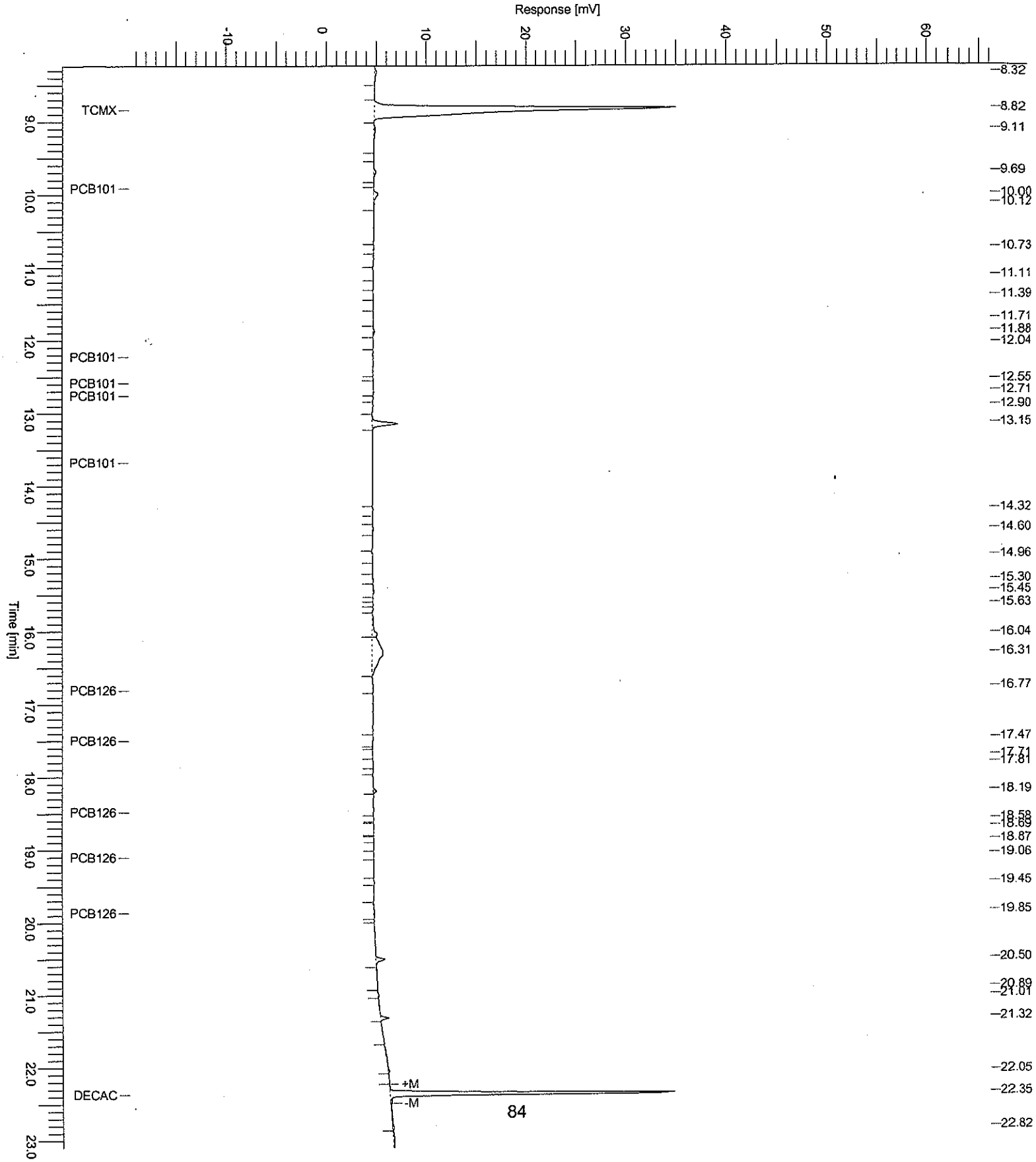
PA 9/01/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\243a082p.TX0

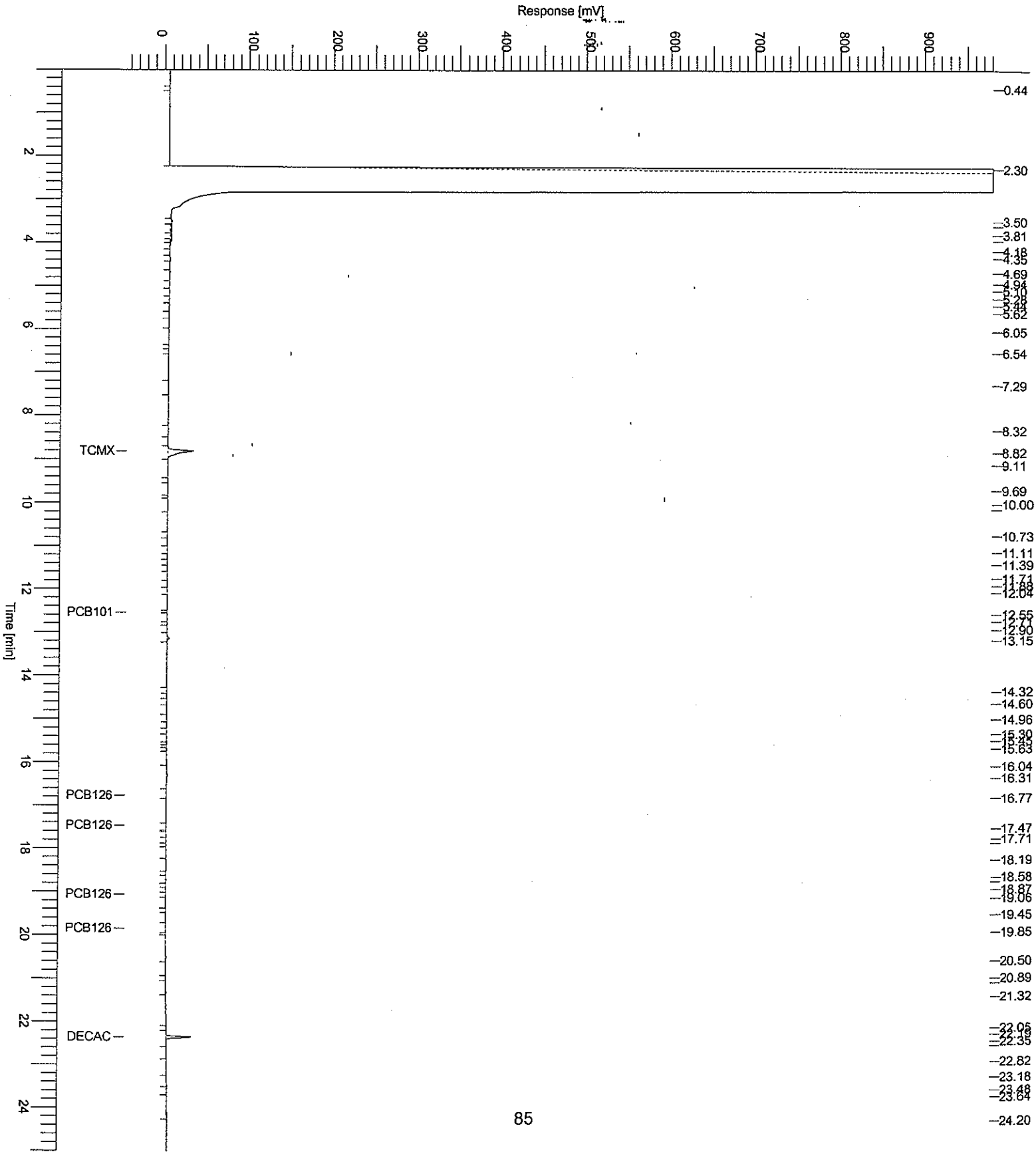
GC22 Rtx-CLPesticides

Sample Name : 174320-006,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a082.raw
Date : 9/1/04 2:55:33 PM
Method : Time of Injection: 9/1/04 7:04:41 AM
Start Time : 8.23 min End Time : 23.10 min Low Point : -19.76 mV High Point : 66.20 mV
Plot Offset: -19.76 mV Plot Scale: 86.0 mV



GC22 Rtx-CLPesticides

Sample Name : 174320-006,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a082.raw
Date : 9/1/04 2:29:01 PM
Method : gc22ins Time of Injection: 9/1/04 7:04:41 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -44.33 mV High Point : 980.93 mV
Scale Factor: 1.0 Plot Offset: -44.33 mV Plot Scale: 1025.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-006,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 82

Date : 9/1/04 2:29:03 PM
Data Acquisition Time : 9/1/04 7:04:41 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b082.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.134	163887.00	45.0041	0.685	1	30.85	6.17
Aroclor-1016	12.576	365.83	0.7107	0.685	1	0.49	0.10
Aroclor-1260	19.935	9132.41	9.9678	0.685	1	6.83	1.37
Decachlorobiphenyl	22.819	111275.00	45.4015	0.685	1	31.12	6.22
		284660.24	101.0842			69.28	13.86

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	0.00	0.0000	0.685	1	0.00	0.00
PCB1016#2	11.660	0.00	0.0000	0.685	1	0.00	0.00
PCB1016#3	12.335	0.00	0.0000	0.685	1	0.00	0.00
PCB1016#4	12.576	365.83	3.3271	0.685	1	2.28	0.46
PCB1016#5	13.768	0.00	0.0000	0.685	1	0.00	0.00
		365.83	3.3271			2.28	0.46

Group Report For : Aroclor-1260

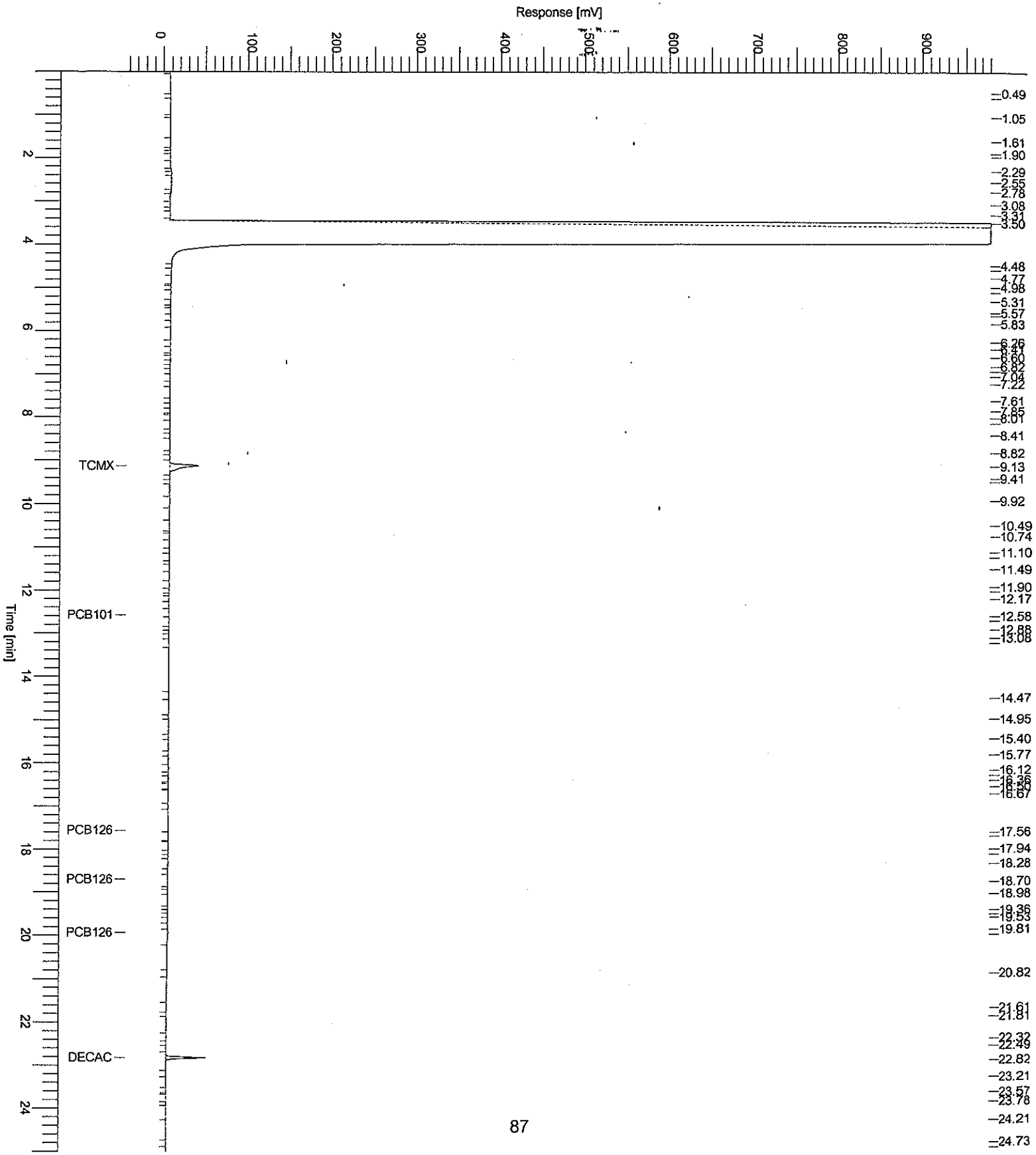
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.000	0.00	0.0000	0.685	1	0.00	0.00
PCB1260#2	17.556	3668.58	19.7567	0.685	1	13.54	2.71
PCB1260#3	18.697	367.00	3.1260	0.685	1	2.14	0.43
PCB1260#4	19.303	0.00	0.0000	0.685	1	0.00	0.00
PCB1260#5	19.935	5096.83	16.4183	0.685	1	11.25	2.25
		9132.41	39.3010			26.94	5.39

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b082.TX0

GC22 Rtx-CLPesticides II

Sample Name : 174320-006,94184 Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b082
Date : 9/1/04 2:29:06 PM
Method : gc22ins Time of Injection: 9/1/04 7:04:41 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -43.75 mV High Point : 980.30 mV
Scale Factor: 1.0 Plot Offset: -43.75 mV Plot Scale: 1024.0 mV



Curtis & Tompkins, Ltd.

QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC06	Samplenum:	QC263002	Cident	:
Seqnum	: 204350924032	Matrix	: Soil	Acctnum	: QC
Filename	: 243_032	Batchnum	: 94184	Injected	: 31-AUG-2004 06:42
IDF	: 1.0			Units	: ug/Kg

Prep: 15.03 g --> 10.0 ml = 0.6653 ml/g PDF

Analyte	Ch	Calibration	Result		Conf Result	RPD	RL	Flags
Aroclor-1016	A	204350924001	ND				9.6	
Aroclor-1016 Peak # 1.....A		204350924001		0.78	ND			
Aroclor-1016 Peak # 2.....A		204350924001		0.12	1.42	168%		
Aroclor-1016 Peak # 3	A	204350924001		ND	ND			
Aroclor-1016 Peak # 4.....A		204350924001		0.09	ND			
Aroclor-1016 Peak # 5	A	204350924001		ND	ND			
Aroclor-1221	A		ND				19	
Aroclor-1232	A		ND				9.6	
Aroclor-1242	A		ND				9.6	
Aroclor-1248	A		ND				9.6	
Aroclor-1254	A		ND				9.6	
Aroclor-1260	A	204350924001	ND				9.6	
Aroclor-1260 Peak # 1.....A		204350924001		0.25	2.61	165%		
Aroclor-1260 Peak # 2	A	204350924001		ND	ND			
Aroclor-1260 Peak # 3.....A		204350924001		0.72	1.07	38%		
Aroclor-1260 Peak # 4.....A		204350924001		0.02	0.06	118%		
Aroclor-1260 Peak # 5.....A		204350924001		0.30	ND			

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	204350924001	33.27	26.41	79	62-140	
Decachlorobiphenyl	A	204350924001	33.27	26.07	78	48-149	

PA 8/31/04

Jrw 9/3/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc263002,94184,mb
Instrument Name : gc06
Rack/Vial : 1/32
Sample Amount : 1.000000
Cycle : 32

Date : 8/31/04 1:29:56 PM
Data Acquisition Time : 8/31/04 6:42:41 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : g:\gc06\cha\243a032.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	655985.25	39.70	0.6653	1	26.41	5.28
Aroclor-1016	8.614	685.19	0.23	0.6653	1	0.15	0.03
Aroclor-1260	18.249	1508.11	0.34	0.6653	1	0.23	0.05
Decachlorobiphenyl	21.587	441409.69	39.19	0.6653	1	26.07	5.21
		1099588.25	79.46			52.87	10.57

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.614	472.65	1.17	0.6653	1	0.78	0.16
PCB1016#2	9.569	134.67	0.18	0.6653	1	0.12	0.02
PCB1016#3	10.824	0.00	0.00	0.6653	1	0.00	0.00
PCB1016#4	11.129	77.87	0.14	0.6653	1	0.09	0.02
PCB1016#5	12.221	0.00	0.00	0.6653	1	0.00	0.00
		685.19	1.49			0.99	0.20

PA 8/31/04

Group Report For : Aroclor-1260

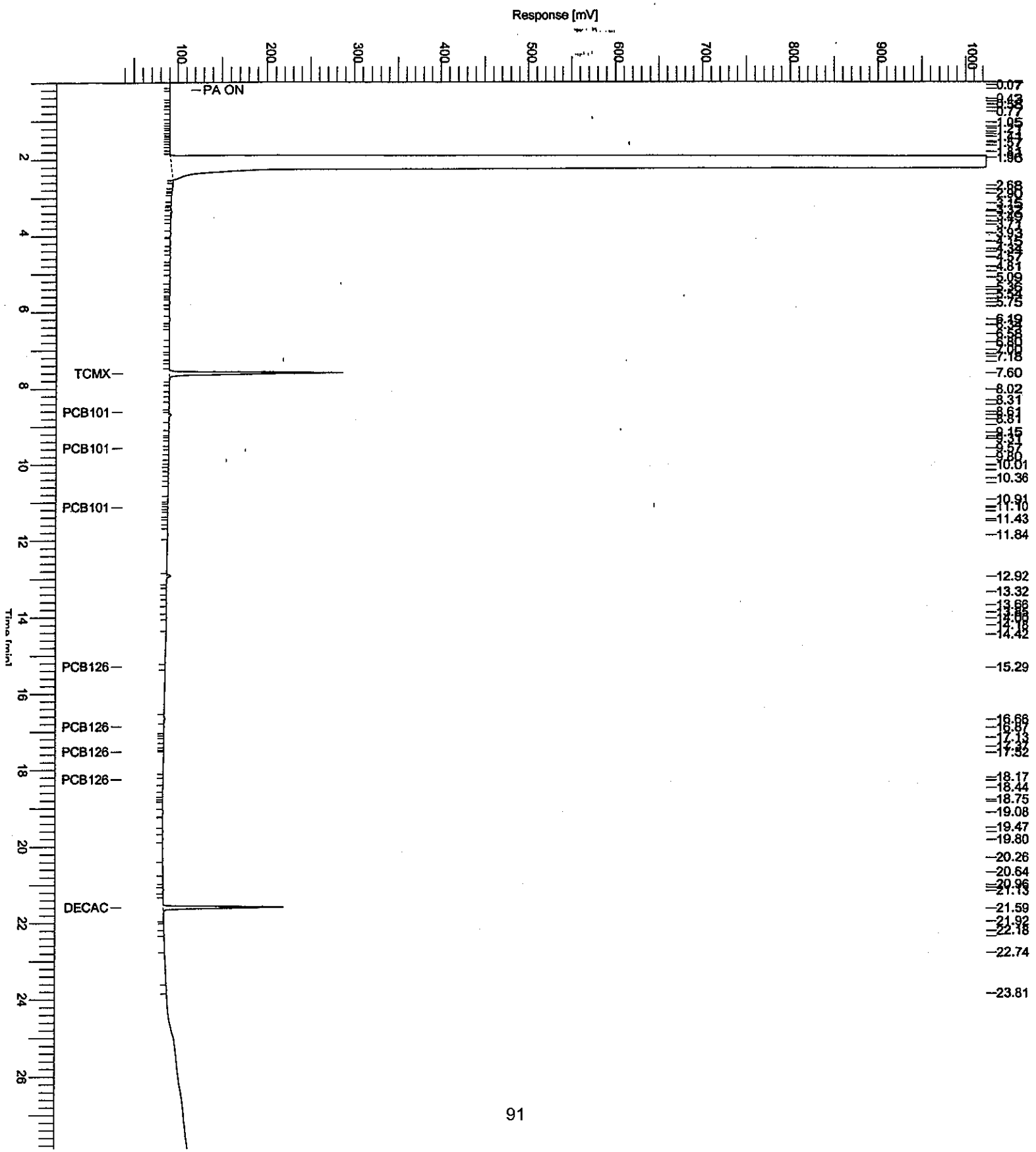
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.287	293.71	0.37	0.6653	1	0.25	0.05
PCB1260#2	15.950	0.00	0.00	0.6653	1	0.00	0.00
PCB1260#3	16.870	630.39	1.09	0.6653	1	0.72	0.14
PCB1260#4	17.523	14.16	0.02	0.6653	1	0.02	0.00
PCB1260#5	18.249	569.85	0.46	0.6653	1	0.30	0.06
		1508.11	1.94			1.29	0.26

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc06\cha\243a032.TX0

GC 06 Rtx-CLPesticides

ample Name : qc263002,94184,mb Sample #: 94184 Page 1 of 1
ileName : G:\gc06\cha\243a032.raw
ate : 8/31/04 1:29:59 PM
lethod : gc06fsa1ul Time of Injection: 8/31/04 6:42:41 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 37.26 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 37.26 mV Plot Scale: 986.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263002,94184,mb
Instrument Name : gc06
Rack/Vial : 1/32
Sample Amount : 1.000000
Cycle : 32

Date : 8/31/04 1:35:40 PM
Data Acquisition Time : 8/31/04 6:42:41 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b032p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	879756.71	41.37	0.6653	1	27.53	5.51
Aroclor-1016	8.758	1423.33	0.33	0.6653	1	0.22	0.04
Aroclor-1260	13.927	5819.69	1.04	0.6653	1	0.69	0.14
Decachlorobiphenyl	20.613	441705.94	38.50	0.6653	1	25.61	5.12
		1328705.67	81.24			54.05	10.81

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.237	0.00	0.00	0.6653	1	0.00	0.00
PCB1016#2	8.758	1423.33	2.13	0.6653	1	1.42	0.28
PCB1016#3	9.376	0.00	0.00	0.6653	1	0.00	0.00
PCB1016#4	9.627	0.00	0.00	0.6653	1	0.00	0.00
PCB1016#5	10.755	0.00	0.00	0.6653	1	0.00	0.00
		1423.33	2.13			1.42	0.28

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.927	4517.20	3.93	0.6653	1	2.61	0.52
PCB1260#2	14.501	0.00	0.00	0.6653	1	0.00	0.00
PCB1260#3	15.568	1229.92	1.60	0.6653	1	1.07	0.21
PCB1260#4	16.189	72.57	0.09	0.6653	1	0.06	0.01
PCB1260#5	16.833	0.00	0.00	0.6653	1	0.00	0.00
		5819.69	5.62			3.74	0.75

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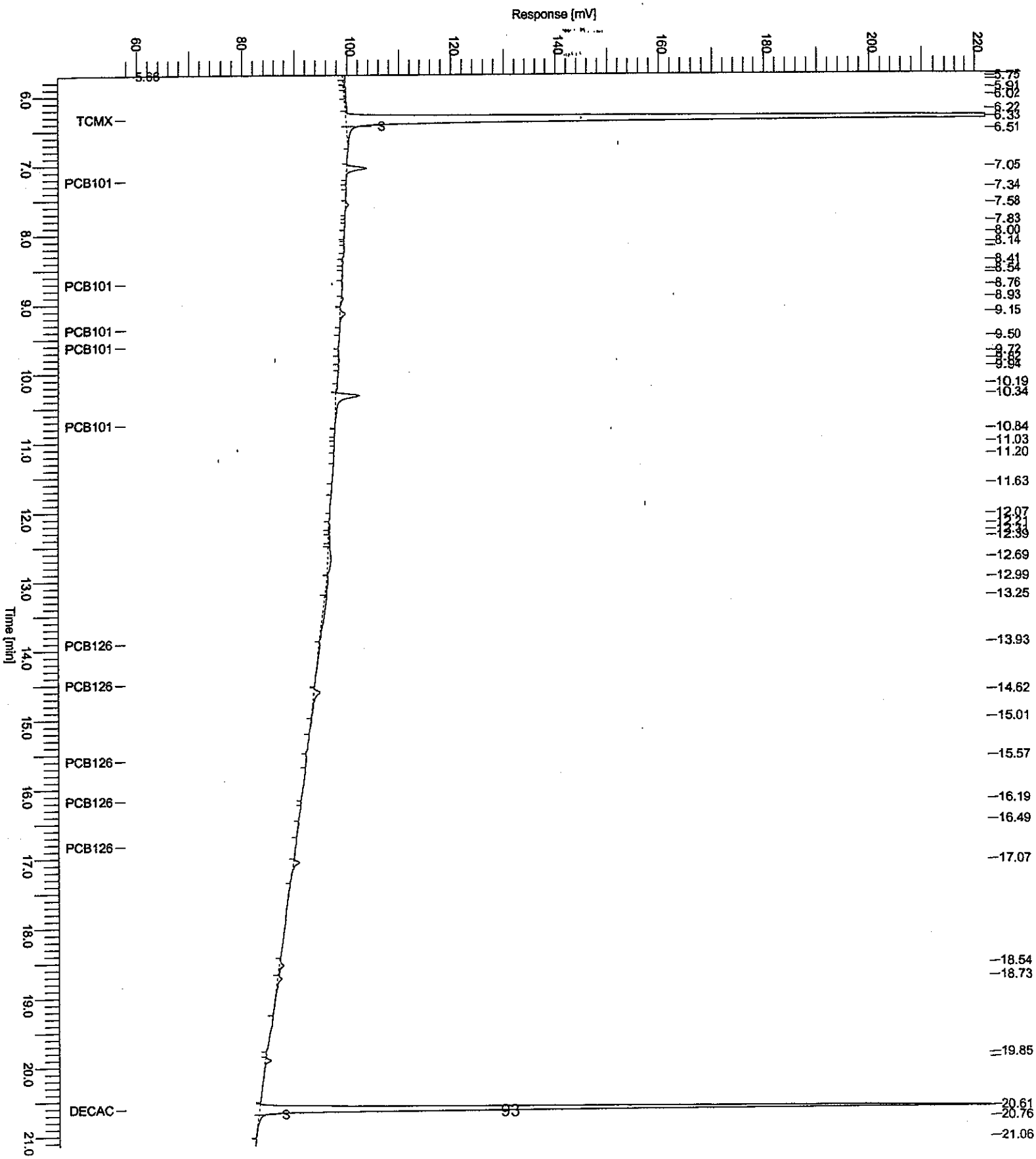
Report stored in ASCII file: G:\gc06\chb\243b032p.TX0

GC 06 Rtx-5

Sample Name : qc263002,94184,mb
FileName : G:\gc06\chb\243b032.raw
Date : 8/31/04 1:35:45 PM
Method :
Start Time : 5.71 min
Plot Offset: 57.87 mV

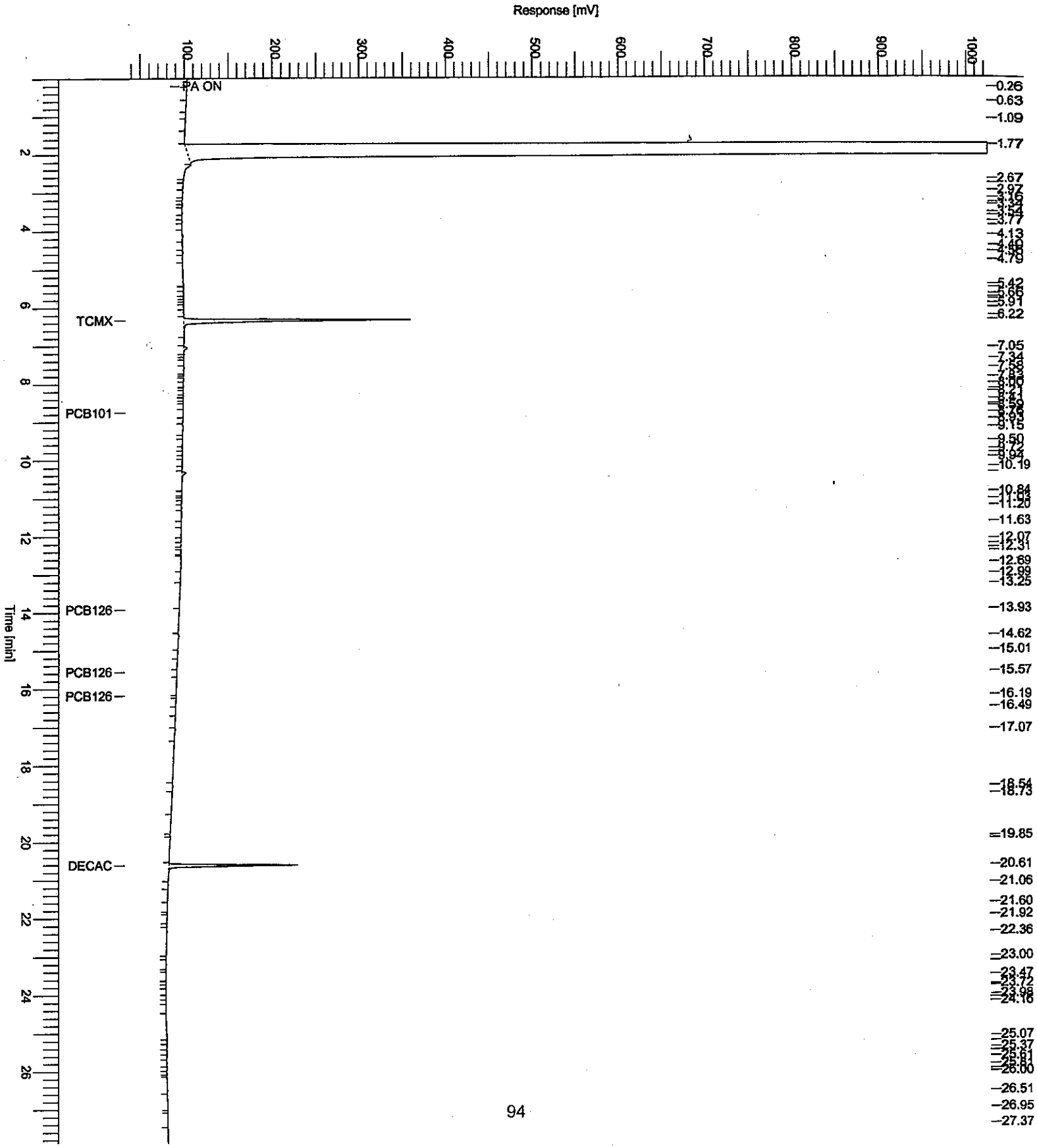
Sample #: 94184

Time of Injection: 8/31/04 6:42:41 AM
End Time : 21.15 min
Plot Scale: 164.1 mV
Low Point : 57.87 mV
High Point : 221.94 mV



GC 06 Rtx-5

ample Name : qc263002,94184,mb Sample #: 94184 Page 1 of 1
ileName : G:\gc06\chb\243b032
ate : 8/31/04 1:30:14 PM
ethod : gc06fsa1ul Time of Injection: 8/31/04 6:42:41 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 32.93 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 32.93 mV Plot Scale: 991.1 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204350924033
Filename : 243_033
IDF : 1.0
Run type : LCS
Samplenum: QC263003
Matrix : Soil
Batchnum : 94184
Inj : 31-AUG-2004 07:15
Units : ug/Kg

LCS: 15.23 g --> 10.0 ml = 0.6566 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
Aroclor-1016	164.1	150.4	A	92	65-135	
Aroclor-1016 Peak # 1		137.1	A			
Aroclor-1016 Peak # 2		154.3	A			
Aroclor-1016 Peak # 3		153.1	A			
Aroclor-1016 Peak # 4		154.4	A			
Aroclor-1016 Peak # 5		153.1	A			
Aroclor-1260	164.1	174.7	A	106	65-141	
Aroclor-1260 Peak # 1		168.9	A			
Aroclor-1260 Peak # 2		169.8	A			
Aroclor-1260 Peak # 3		175.8	A			
Aroclor-1260 Peak # 4		179.2	A			
Aroclor-1260 Peak # 5		180.0	A			
TCMX	32.83	27.01	A	82	62-140	
Decachlorobiphenyl	32.83	26.46	A	81	48-149	

FA 8/31/04

mw 9/3/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc263003,94184,lcs
Instrument Name : gc06
Rack/Vial : 1/33
Sample Amount : 1.000000
Cycle : 33

Date : 8/31/04 1:32:48 PM
Data Acquisition Time : 8/31/04 7:15:48 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a033p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	679731.60	41.14	0.6566	1	27.01	5.40
Aroclor-1016	10.815	689189.68	230.72	0.6566	1	151.49	30.30
Aroclor-1260	18.253	1179957.33	265.84	0.6566	1	174.55	34.91
Decachlorobiphenyl	21.587	453840.67	40.29	0.6566	1	26.46	5.29
		3002719.29	578.00			379.51	75.90

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.616	84479.94	208.80	0.6566	1	137.10	27.42
PCB1016#2	9.582	172417.78	235.07	0.6566	1	154.34	30.87
PCB1016#3	10.815	196008.57	233.25	0.6566	1	153.15	30.63
PCB1016#4	11.162	128595.85	235.15	0.6566	1	154.40	30.88
PCB1016#5	12.216	107687.54	233.21	0.6566	1	153.13	30.63
		689189.68	1145.47			752.12	150.42

AA 8/31/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.266	203431.64	257.19	0.6566	1	168.87	33.77
PCB1260#2	15.947	316019.69	258.60	0.6566	1	169.80	33.96
PCB1260#3	16.904	155218.07	267.68	0.6566	1	175.76	35.15
PCB1260#4	17.509	163172.93	272.87	0.6566	1	179.17	35.83
PCB1260#5	18.253	342115.00	274.20	0.6566	1	180.04	36.01
		1179957.33	1330.55			873.64	174.73

----------CURTIS & TOMPKINS LTD----------

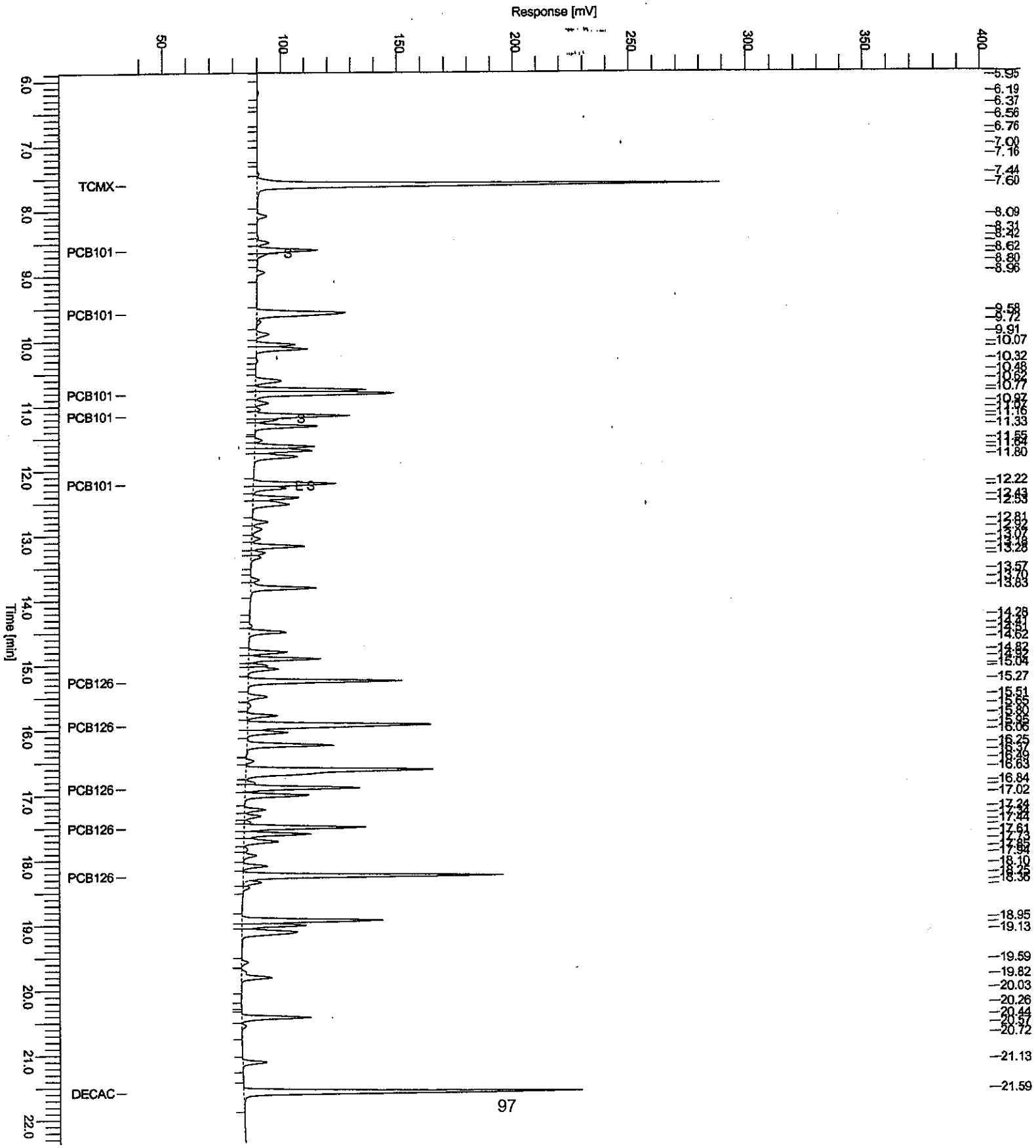
Report stored in ASCII file: G:\gc06\cha\243a033p.TX0

GC 06 Rtx-CLPesticides

Sample Name : qc263003,94184,lcs
FileName : G:\gc06\cha\243a033.raw
Date : 8/31/04 1:32:54 PM
Method :
Start Time : 5.88 min
Plot Offset: 34.38 mV

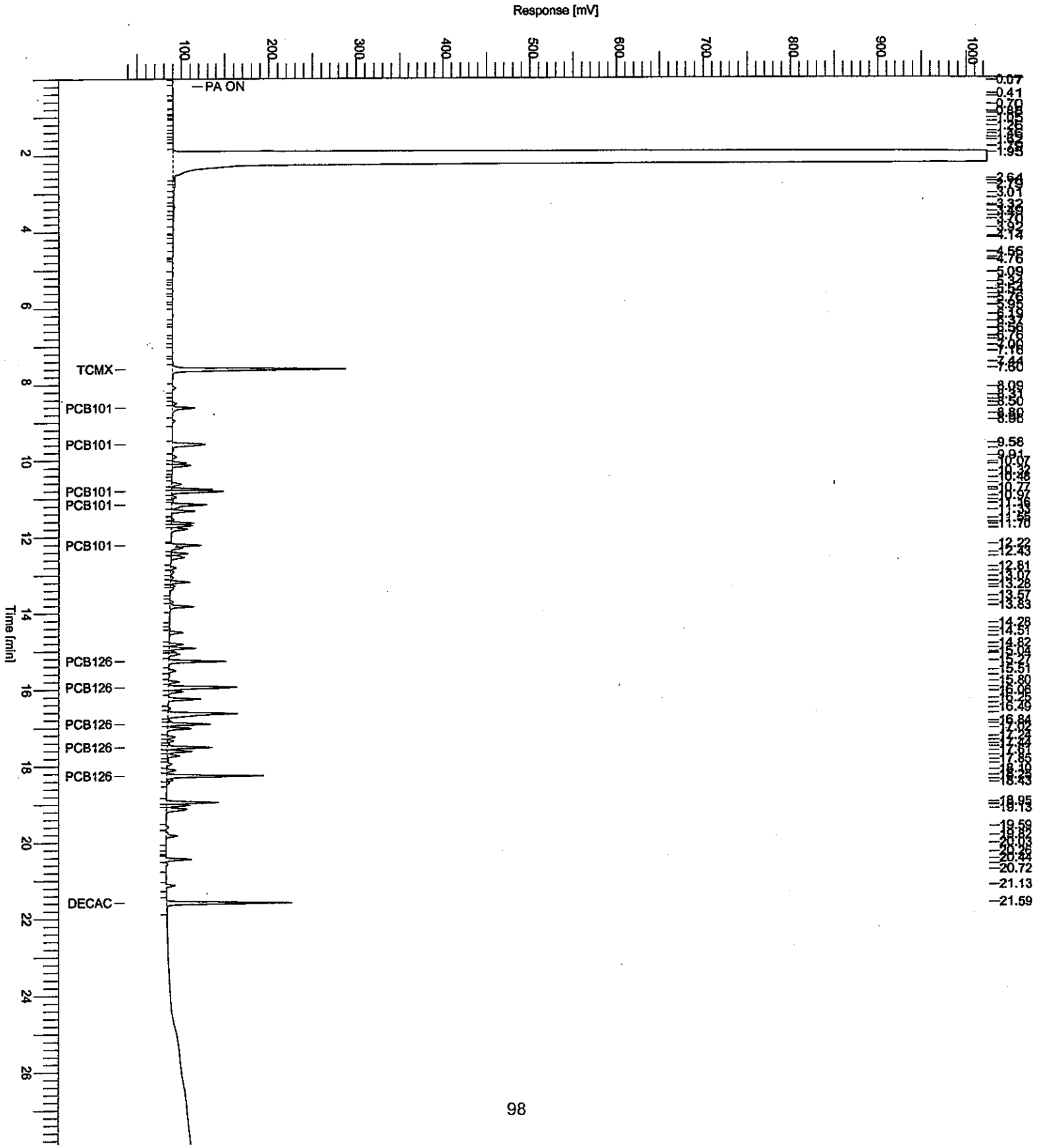
Sample #: 94184

Time of Injection: 8/31/04 7:15:48 AM
End Time : 22.37 min
Plot Scale: 368.0 mV
Low Point : 34.38 mV
High Point : 402.34 mV



GC 06 Rtx-CLPesticides

Sample Name : qc263003,94184,lcs Sample #: 94184 Page 1 of 1
FileName : G:\gc06\cha\243a033.raw
Date : 8/31/04 1:30:04 PM
Method : gc06fsa1ul Time of Injection: 8/31/04 7:15:48 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 36.85 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 36.85 mV Plot Scale: 987.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263003,94184,lcs
Instrument Name : gc06
Rack/Vial : 1/33
Sample Amount : 1.000000
Cycle : 33

Date : 8/31/04 1:43:02 PM
Data Acquisition Time : 8/31/04 7:15:48 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b033p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	904141.65	42.52	0.6566	1	27.92	5.58
Aroclor-1016	9.373	1036513.29	238.71	0.6566	1	156.74	31.35
Aroclor-1260	16.827	1435992.34	257.64	0.6566	1	169.17	33.83
Decachlorobiphenyl	20.613	458396.05	39.95	0.6566	1	26.23	5.25
		3835043.33	578.82			380.05	76.01

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.232	119666.26	234.98	0.6566	1	154.29	30.86
PCB1016#2	8.710	155221.09	232.36	0.6566	1	152.57	30.51
PCB1016#3	9.373	425437.04	237.15	0.6566	1	155.71	31.14
PCB1016#4	9.620	196592.43	245.11	0.6566	1	160.94	32.19
PCB1016#5	10.749	139596.47	245.42	0.6566	1	161.14	32.23
		1036513.29	1195.01			784.64	156.93

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	298336.36	259.23	0.6566	1	170.21	34.04
PCB1260#2	14.493	312942.77	254.76	0.6566	1	167.28	33.46
PCB1260#3	15.587	202900.75	264.50	0.6566	1	173.67	34.73
PCB1260#4	16.173	212268.62	268.47	0.6566	1	176.28	35.26
PCB1260#5	16.827	409543.84	250.24	0.6566	1	164.30	32.86
		1435992.34	1297.20			851.74	170.35

----------CURTIS & TOMPKINS LTD----------

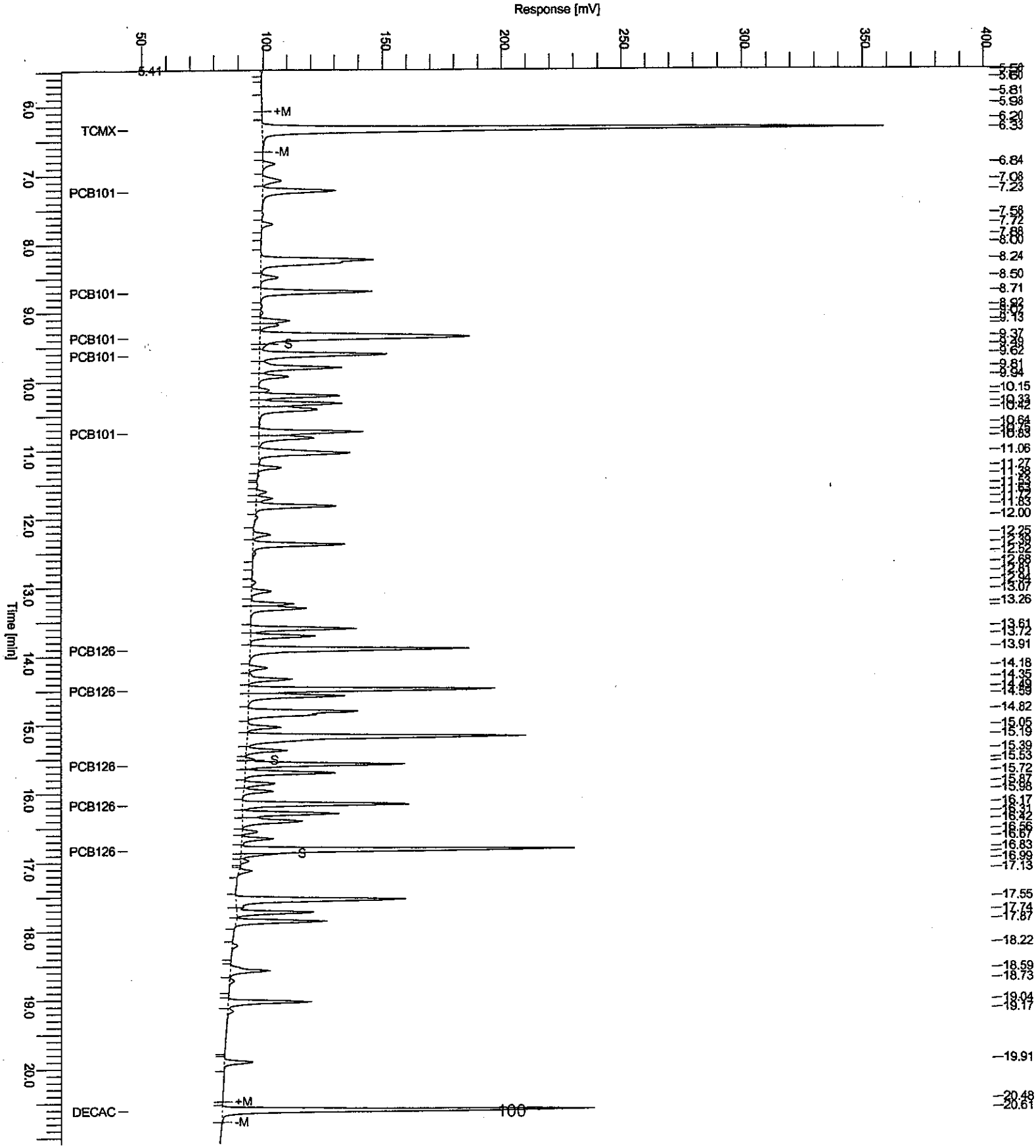
Report stored in ASCII file: G:\gc06\chb\243b033p.TX0

GC 06 Rtx-5

Sample Name : qc263003,94184,lcs
FileName : G:\gc06\chb\243b033.raw
Date : 8/31/04 1:43:07 PM
Method :
Start Time : 5.48 min
Plot Offset: 44.36 mV

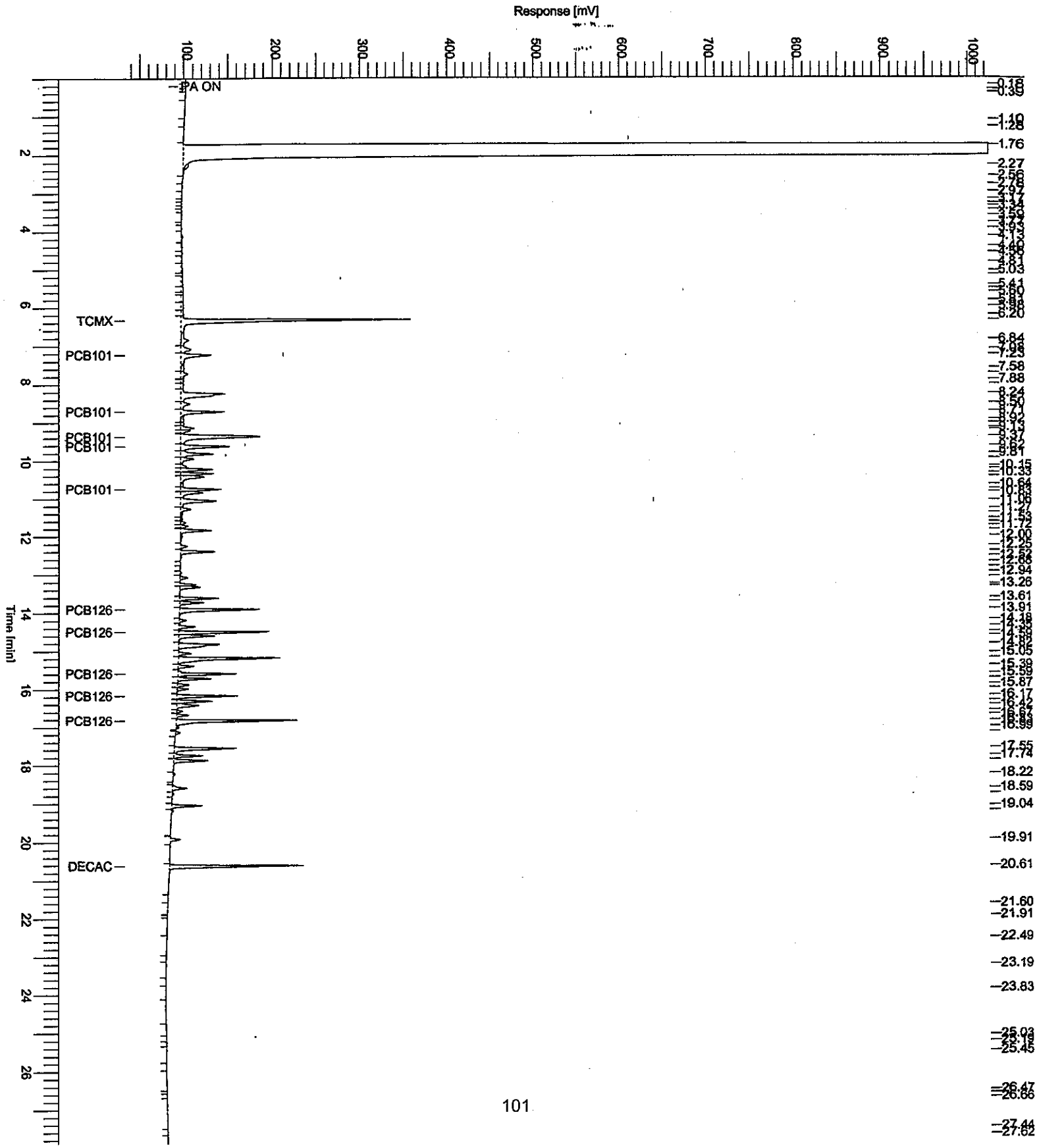
Sample #: 94184

Time of Injection: 8/31/04 7:15:48 AM
End Time : 21.09 min
Plot Scale: 358.2 mV
Low Point : 44.36 mV
High Point : 402.52 mV



GC 06 Rtx-5

'ample Name : qc263003,94184,lcs Sample #: 94184 Page 1 of 1
IleName : G:\gc06\chb\243b033
ate : 8/31/04 1:30:20 PM
lethod : gc06fsa1ul Time of Injection: 8/31/04 7:15:48 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 32.16 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 32.16 mV Plot Scale: 991.8 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22	Instid : GC06	Instid : GC06
Seqnum : 254350716070	Seqnum : 204350924034	Seqnum : 204350924035
Filename : 243_070	Filename : 243_034	Filename : 243_035
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174301-001	Samplenum: QC263004	Samplenum: QC263005
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94184	Batchnum : 94184	Batchnum : 94184
Inj : 01-SEP-2004 01:24	Inj : 31-AUG-2004 07:49	Inj : 31-AUG-2004 08:22
Units : ug/Kg		

MSS: 14.98 g --> 10.0 ml = 0.6676 ml/g PDF
MS: 15.04 g --> 10.0 ml = 0.6649 ml/g PDF
MSD: 15.01 g --> 10.0 ml = 0.6662 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
Aroclor-1016	ND	A	166.6	199.0	A	120	198.9	A	119	58-145	0	27	
Aroclor-1016 Peak # 1				201.6	A		192.5	A					
Aroclor-1016 Peak # 2				202.9	A		197.4	A					
Aroclor-1016 Peak # 3				197.6	A		202.0	A					
Aroclor-1016 Peak # 4				194.1	A		203.8	A					
Aroclor-1016 Peak # 5				266.0	A		272.3	A					o
Aroclor-1260	ND	A	166.6	207.4	A	125	209.2	A	126	41-163	1	41	
Aroclor-1260 Peak # 1				209.2	A		216.9	A					
Aroclor-1260 Peak # 2				238.6	A		232.7	A					
Aroclor-1260 Peak # 3				195.6	A		197.0	A					
Aroclor-1260 Peak # 4				197.7	A		199.0	A					
Aroclor-1260 Peak # 5				195.9	A		200.6	A					
TCMX			33.31	30.03	A	90	28.16	A	85	62-140	--		
Decachlorobiphenyl			33.31	29.42	A	89	28.79	A	86	48-149	--		

FA 9/2/04

o=omit component

Software Version : 6.1.2.0.1:D19
Sample Name : qc263004,94184,ms
Instrument Name : gc06
Rack/Vial : 1/34
Sample Amount : 1.000000
Cycle : 34

Date : 9/1/04 3:57:47 PM
Data Acquisition Time : 8/31/04 7:49:00 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a034p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	746257.24	45.16	0.6649	1	30.03	6.01
Aroclor-1016	10.813	940593.31	314.89	0.6649	1	209.37	41.87
Aroclor-1260	18.253	1403287.04	316.16	0.6649	1	210.21	42.04
Decachlorobiphenyl	21.587	498474.66	44.25	0.6649	1	29.42	5.88
		3588612.25	720.47			479.03	95.81

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.617	122650.53	303.14	0.6649	1	201.55	40.31
PCB1016#2	9.582	223789.99	305.10	0.6649	1	202.86	40.57
PCB1016#3	10.813	249759.60	297.21	0.6649	1	197.61	39.52
PCB1016#4	11.163	159670.73	291.97	0.6649	1	194.13	38.83
PCB1016#5	12.217	184722.47	400.04	0.6649	1	265.99	~~53.20~~
		940593.31	1597.47			1062.15	212.43

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.267	248810.18	314.57	0.6649	1	209.15	41.83
PCB1260#2	15.947	438574.79	358.89	0.6649	1	238.62	47.72
PCB1260#3	16.905	170577.07	294.17	0.6649	1	195.59	39.12
PCB1260#4	17.510	177772.29	297.28	0.6649	1	197.66	39.53
PCB1260#5	18.253	367552.71	294.59	0.6649	1	195.87	39.17
		1403287.04	1559.50			1036.90	207.38

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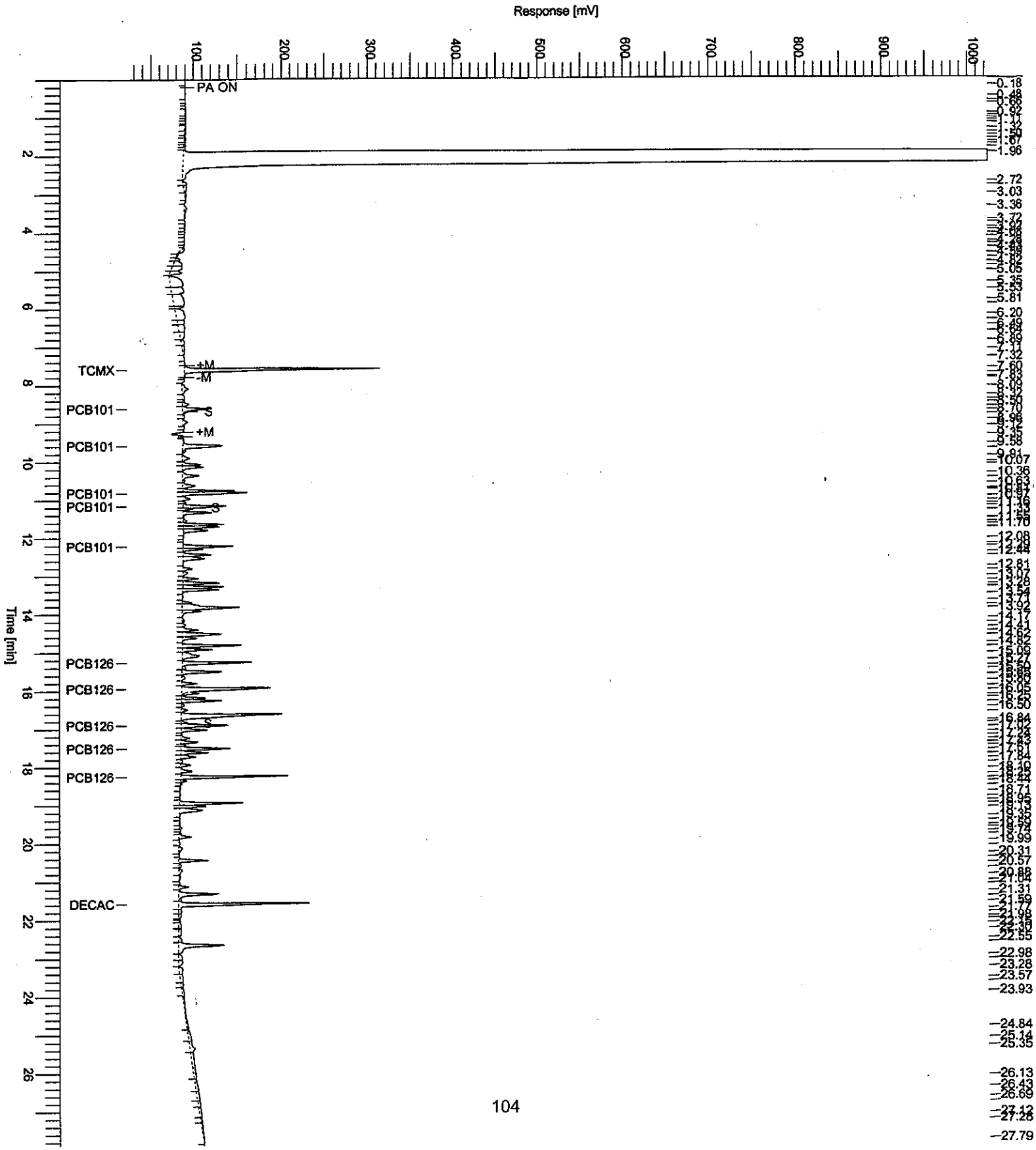
Report stored in ASCII file: G:\gc06\cha\243a034p.TX0

MSS have Ar 1254

GC 06 Rtx-CLPesticides

Sample Name : qc263004,94184,ms Sample #: 94184 Page 1 of 1
FileName : G:\gc06\chA\243a034.raw
Date : 9/1/04 3:57:54 PM
Method : Time of Injection: 8/31/04 7:49:00 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 21.46 mV High Point : 1024.00 mV
Plot Offset: 21.46 mV Plot Scale: 1002.5 mV

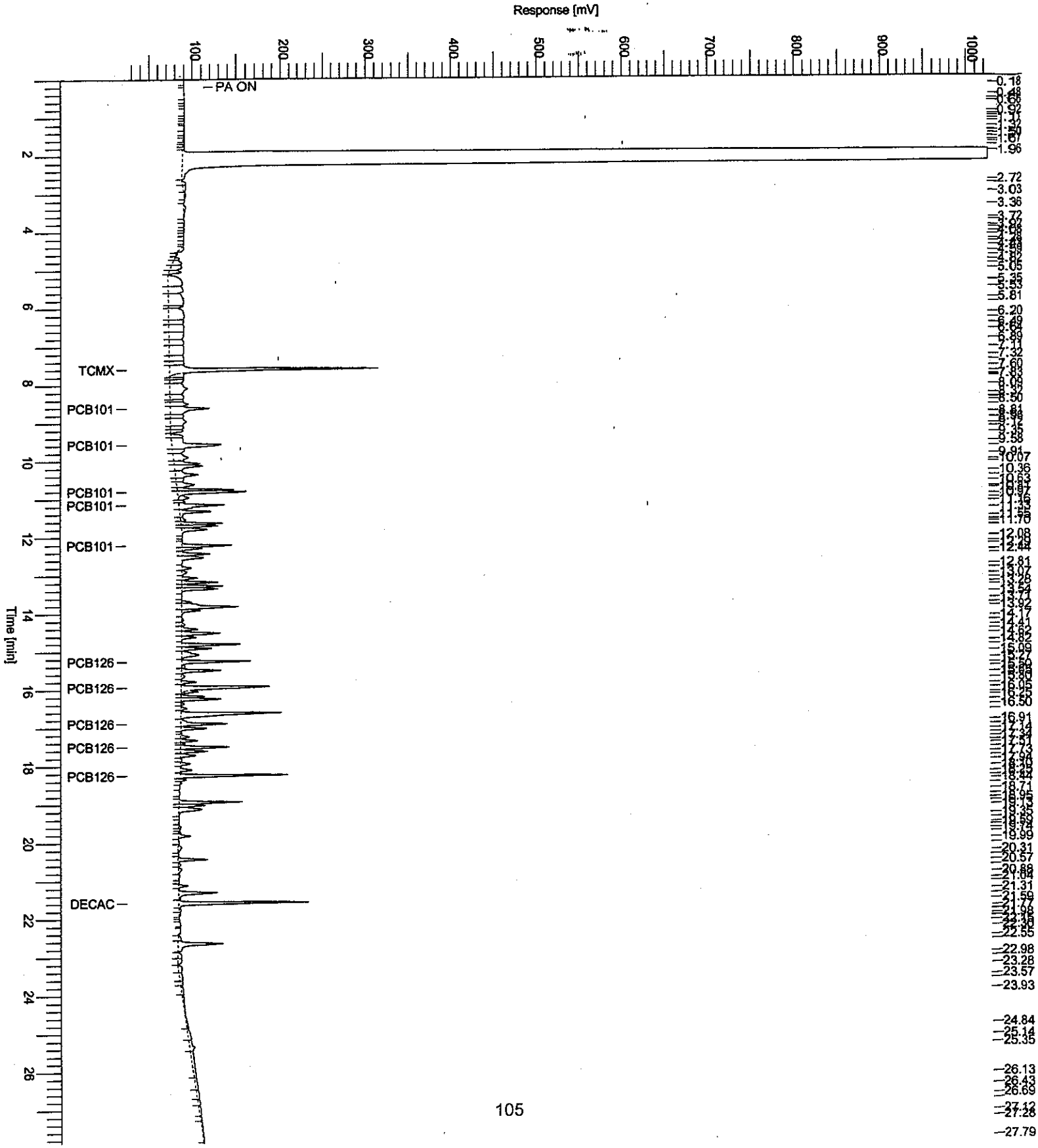


GC 06 Rtx-CLPesticides

Sample Name : qc263004,94184,ms
FileName : G:\gc06\chA\243a034.raw
Date : 9/1/04 3:45:50 PM
Method : gc06fsa1ul
Start Time : 0.00 min End Time : 27.88 min
Scale Factor: 1.0 Plot Offset: 23.97 mV

Sample #: 94184 Page 1 of 1

Time of Injection: 8/31/04 7:49:00 AM
Low Point : 23.97 mV High Point : 1024.00 mV
Plot Scale: 1000.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263004,94184,ms
Instrument Name : gc06
Rack/Vial : 1/34
Sample Amount : 1.000000
Cycle : 34

Date : 9/1/04 4:08:23 PM
Data Acquisition Time : 8/31/04 7:49:00 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b034p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	1073675.85	50.49	0.6649	1	33.57	6.71
Aroclor-1016	9.373	1442364.38	332.18	0.6649	1	220.86	44.17
Aroclor-1260	16.827	1896266.72	340.22	0.6649	1	226.21	45.24
Decachlorobiphenyl	20.613	447418.16	38.99	0.6649	1	25.93	5.19
		4859725.12	761.88			506.57	101.31

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.231	170134.14	334.08	0.6649	1	222.13	44.43
PCB1016#2	8.708	200134.66	299.59	0.6649	1	199.20	39.84
PCB1016#3	9.373	569839.84	317.64	0.6649	1	211.20	42.24
PCB1016#4	9.613	253035.59	315.48	0.6649	1	209.76	41.95
PCB1016#5	10.747	249220.15	438.14	0.6649	1	291.32	~~58.26~~
		1442364.38	1704.94			1133.60	226.72

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	548758.25	476.83	0.6649	1	317.04	~~63.41~~
PCB1260#2	14.493	398128.37	324.11	0.6649	1	215.50	43.10
PCB1260#3	15.587	227351.62	296.38	0.6649	1	197.06	39.41
PCB1260#4	16.173	235068.13	297.30	0.6649	1	197.68	39.54
PCB1260#5	16.827	486960.34	297.54	0.6649	1	197.83	39.57
		1896266.72	1692.15			1125.10	225.02

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Report stored in ASCII file: G:\gc06\chb\243b034p.TX0

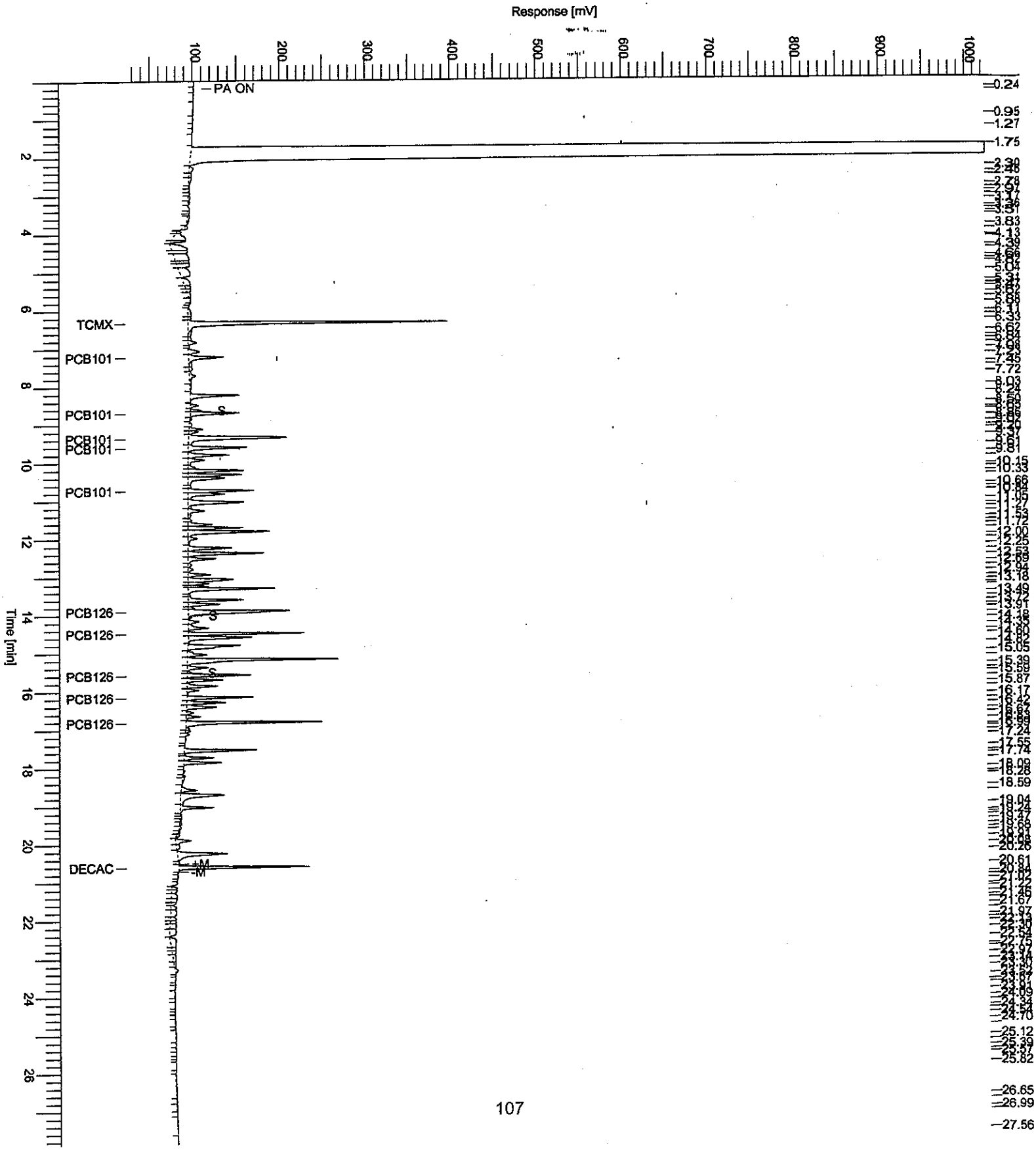
GC 06 Rtx-5

Sample Name : qc263004,94184,ms
FileName : G:\gc06\chB\243b034.raw
Date : 9/1/04 4:08:29 PM
Method :
Start Time : 0.00 min
Plot Offset: 22.80 mV

Sample #: 94184

Page 1 of 1

Time of Injection: 8/31/04 7:49:00 AM
End Time : 27.88 min
Low Point : 22.80 mV
High Point : 1024.00 mV
Plot Scale: 1001.2 mV

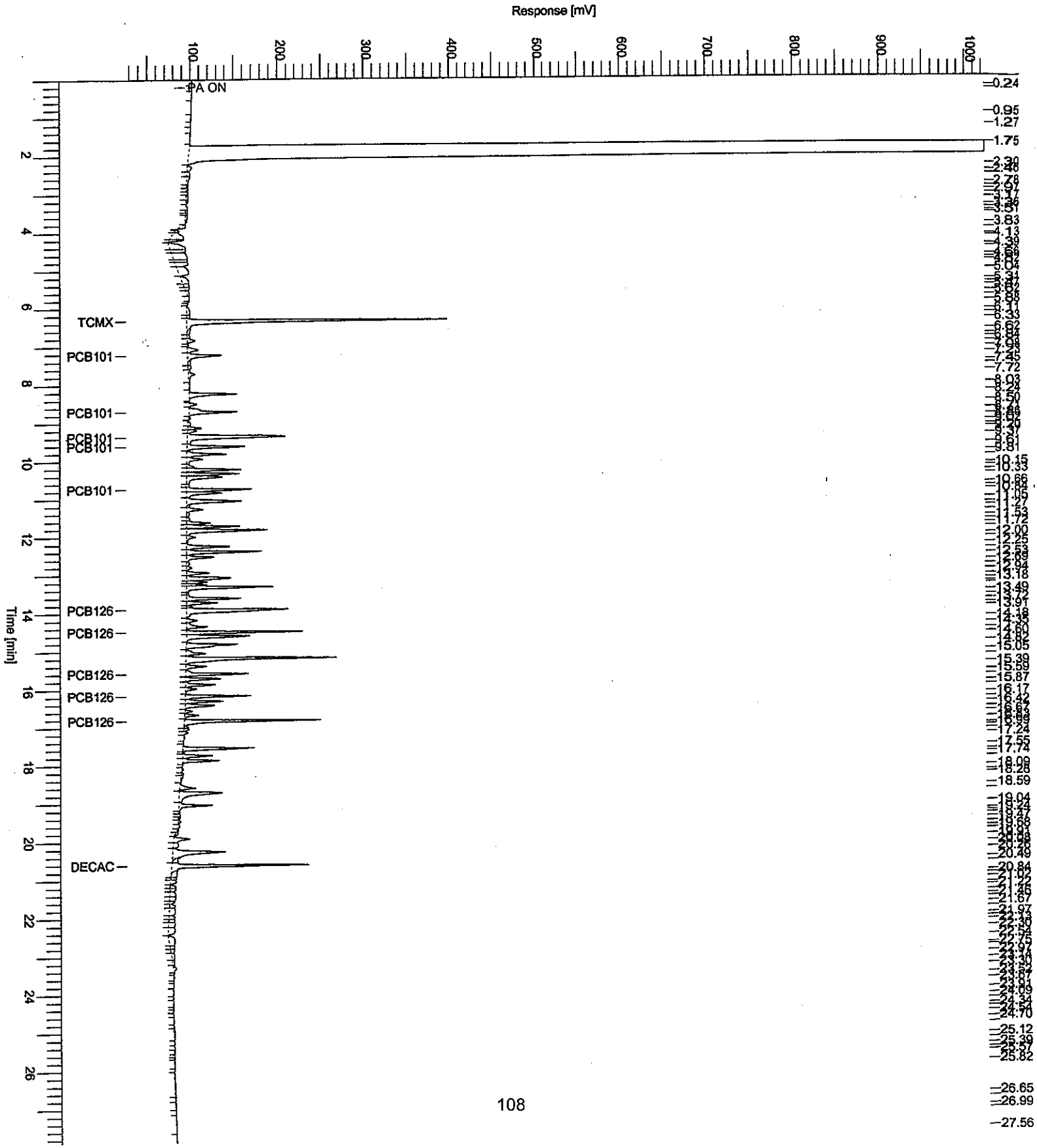


GC 06 Rtx-5

Sample Name : qc263004,94184,ms
FileName : G:\gc06\chB\243b034
Date : 9/1/04 3:46:09 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 94184
Page 1 of 1

Time of Injection: 8/31/04 7:49:00 AM
End Time : 27.88 min
Low Point : 25.30 mV
High Point : 1024.00 mV
Plot Offset: 25.30 mV
Plot Scale: 998.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263005,94184,msd
Instrument Name : gc06
Rack/Vial : 1/35
Sample Amount : 1.000000
Cycle : 35

Date : 9/1/04 4:00:49 PM
Data Acquisition Time : 8/31/04 8:22:06 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a035p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	698379.71	42.27	0.6662	1	28.16	5.63
Aroclor-1016	10.813	945064.87	316.39	0.6662	1	210.78	42.16
Aroclor-1260	18.253	1410090.05	317.69	0.6662	1	211.65	42.33
Decachlorobiphenyl	21.587	486738.52	43.21	0.6662	1	28.79	5.76
		3540273.15	719.56			479.39	95.88

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.616	116926.21	288.99	0.6662	1	192.53	38.51
PCB1016#2	9.581	217279.90	296.23	0.6662	1	197.35	39.47
PCB1016#3	10.813	254854.36	303.27	0.6662	1	202.05	40.41
PCB1016#4	11.162	167263.74	305.86	0.6662	1	203.77	40.75
PCB1016#5	12.216	188740.66	408.75	0.6662	1	272.32	~~54.46~~
		945064.87	1603.09			1068.02	213.60

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.267	257532.42	325.59	0.6662	1	216.92	43.38
PCB1260#2	15.947	426817.11	349.27	0.6662	1	232.69	46.54
PCB1260#3	16.905	171482.34	295.73	0.6662	1	197.02	39.40
PCB1260#4	17.509	178659.17	298.77	0.6662	1	199.05	39.81
PCB1260#5	18.253	375599.01	301.04	0.6662	1	200.56	40.11
		1410090.05	1570.40			1046.24	209.25

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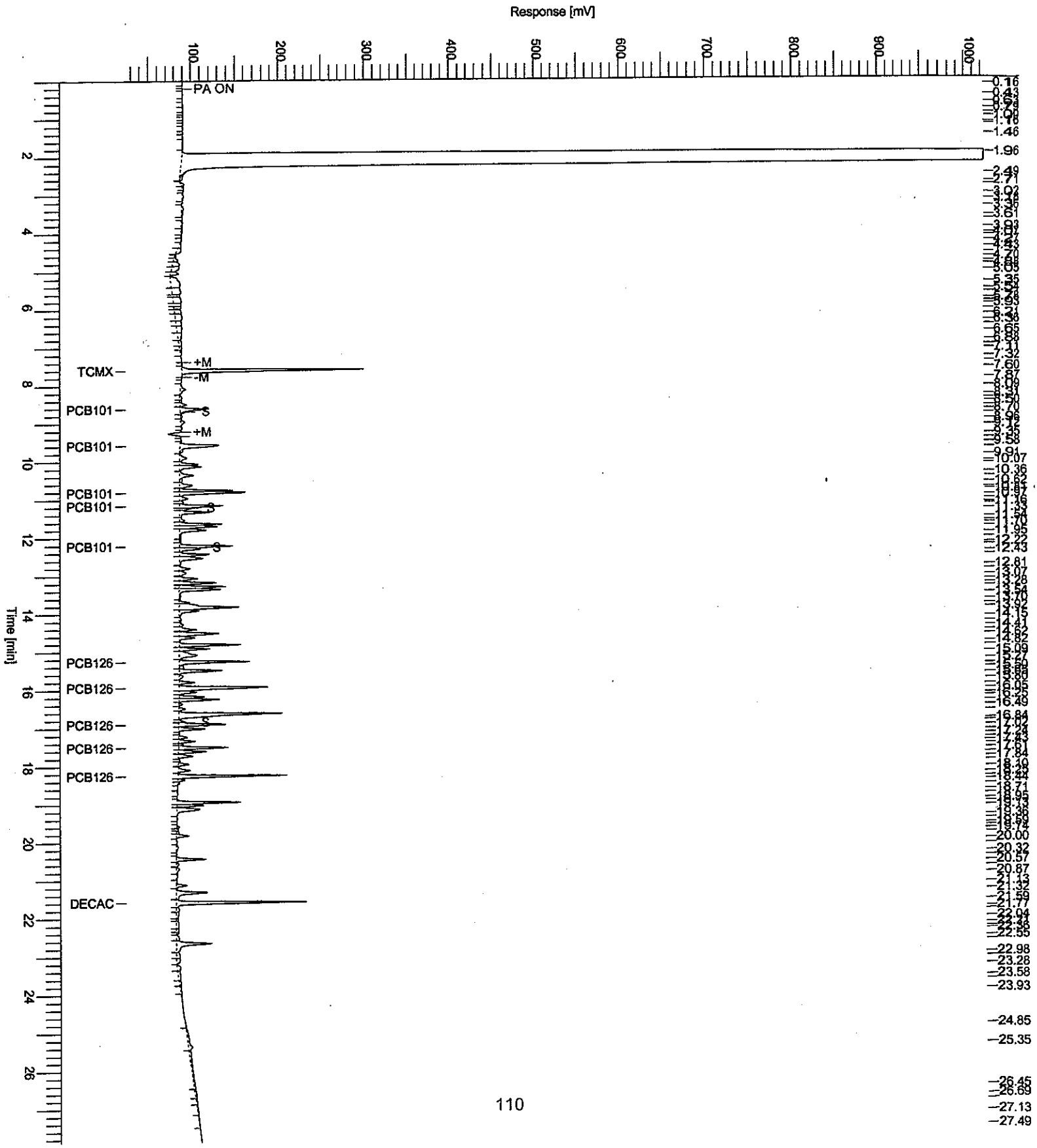
Report stored in ASCII file: G:\gc06\cha\243a035p.TX0

GC 06 Rtx-CLPesticides

Sample Name : qc263005,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc06\chA\243a035.raw
Date : 9/1/04 4:00:56 PM
Method : Time of Injection: 8/31/04 8:22:06 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 23.81 mV High Point : 1024.00 mV
Plot Offset: 23.81 mV Plot Scale: 1000.2 mV

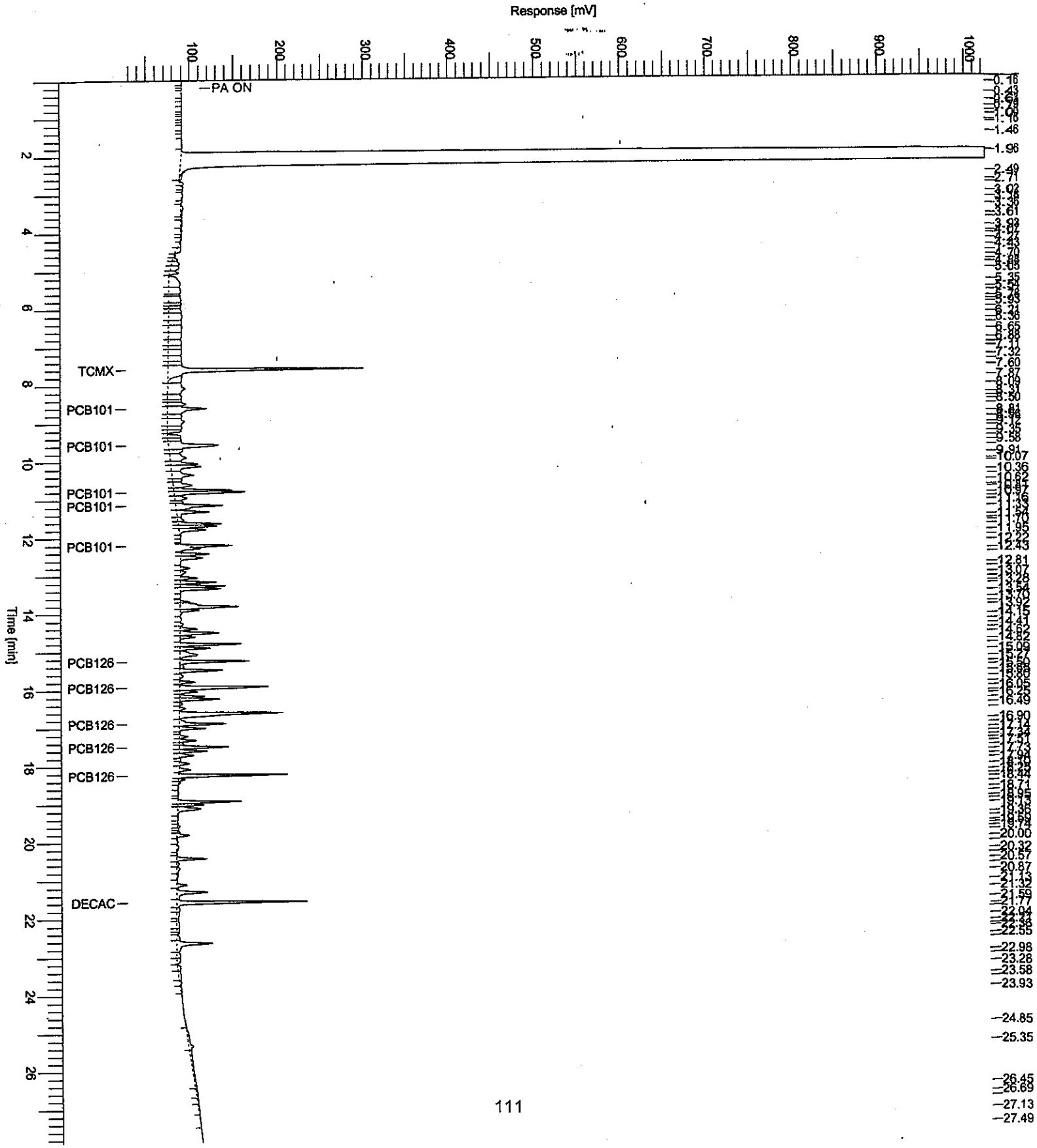


GC 06 Rtx-CLPesticides

Sample Name : qc263005,94184,msd
FileName : G:\gc06\chA\243a035.raw
Date : 9/1/04 3:45:57 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 94184

Time of Injection: 8/31/04 8:22:06 AM
End Time : 27.88 min
Low Point : 26.32 mV
High Point : 1024.00 mV
Plot Offset: 26.32 mV
Plot Scale: 997.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263005,94184,msd
Instrument Name : gc06
Rack/Vial : 1/35
Sample Amount : 1.000000
Cycle : 35

Date : 9/1/04 4:10:31 PM
Data Acquisition Time : 8/31/04 8:22:06 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b035p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	947531.65	44.56	0.6662	1	29.69	5.94
Aroclor-1016	9.360	1457476.83	335.66	0.6662	1	223.62	44.72
Aroclor-1260	16.827	1872886.68	336.03	0.6662	1	223.87	44.77
Decachlorobiphenyl	20.613	453291.78	39.51	0.6662	1	26.32	5.26
		4731186.94	755.75			503.50	100.70

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.230	168719.13	331.30	0.6662	1	220.72	44.14
PCB1016#2	8.707	217543.08	325.65	0.6662	1	216.96	43.39
PCB1016#3	9.360	570815.59	318.19	0.6662	1	211.98	42.40
PCB1016#4	9.613	251268.90	313.28	0.6662	1	208.71	41.74
PCB1016#5	10.747	249130.12	437.98	0.6662	1	291.79	~~58.36~~
		1457476.83	1726.40			1150.17	230.03

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	527781.00	458.60	0.6662	1	305.53	~~61.11~~
PCB1260#2	14.493	404018.42	328.90	0.6662	1	219.12	43.82
PCB1260#3	15.587	228280.06	297.59	0.6662	1	198.26	39.65
PCB1260#4	16.173	237399.05	300.25	0.6662	1	200.03	40.01
PCB1260#5	16.827	475408.16	290.48	0.6662	1	193.52	38.70
		1872886.68	1675.82			1116.47	223.29

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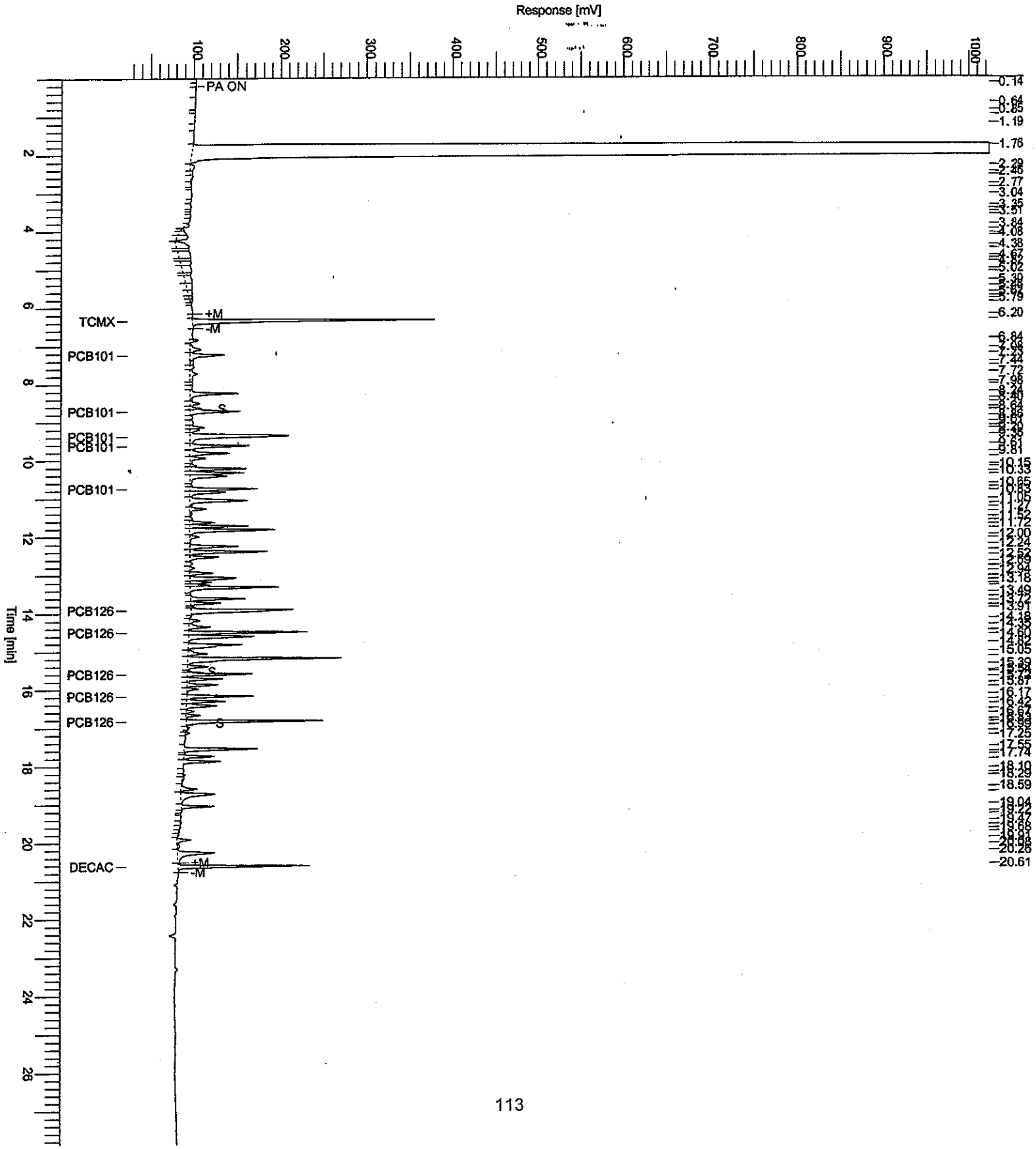
Report stored in ASCII file: G:\gc06\chb\243b035p.TX0

GC 06 Rtx-5

Sample Name : qc263005,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc06\chB\243b035.raw
Date : 9/1/04 4:10:38 PM
Method : Time of Injection: 8/31/04 8:22:06 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 23.43 mV High Point : 1024.00 mV
Plot Offset: 23.43 mV Plot Scale: 1000.6 mV

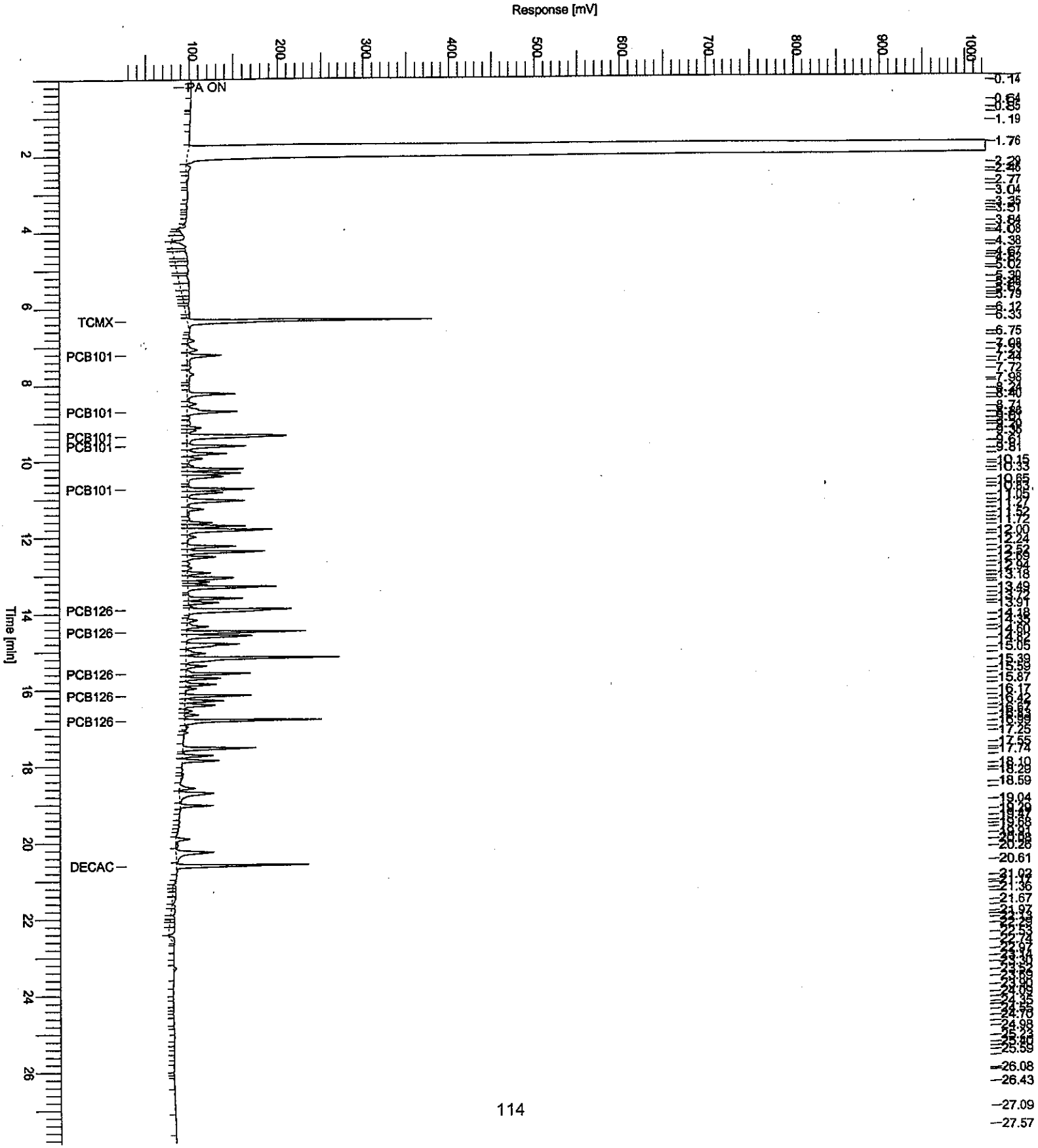


GC 06 Rtx-5

Sample Name : qc263005,94184,msd
FileName : G:\gc06\chB\243b035
Date : 9/1/04 3:46:17 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 94184

Time of Injection: 8/31/04 8:22:06 AM
End Time : 27.88 min
Low Point : 25.93 mV
High Point : 1024.00 mV
Plot Offset: 25.93 mV
Plot Scale: 998.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174301-001,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 70

Date : 9/2/04 9:22:56 AM
Data Acquisition Time : 9/1/04 1:24:56 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a070q.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	8.822	164373.32	50.0350	0.668	1	33.40	6.68
Aroclor-1254	16.331	122363.28	213.1692	0.668	1	142.30	28.46
Decachlorobiphenyl_	22.363	81558.42	44.5024	0.668	1	29.71	5.94
		368295.01	307.7065			205.41	41.08

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.646	14320.08	155.1596	0.668	1	103.58	20.72
PCB1254#2	15.309	33947.93	217.7163	0.668	1	145.34	29.07
PCB1254#3	15.911	13972.05	264.1168	0.668	1	176.31	~~35.26~~
PCB1254#4	16.331	34872.62	216.5993	0.668	1	144.59	28.92
PCB1254#5	17.028	25250.60	225.6572	0.668	1	150.64	30.13
		122363.28	1079.2492			720.46	144.09

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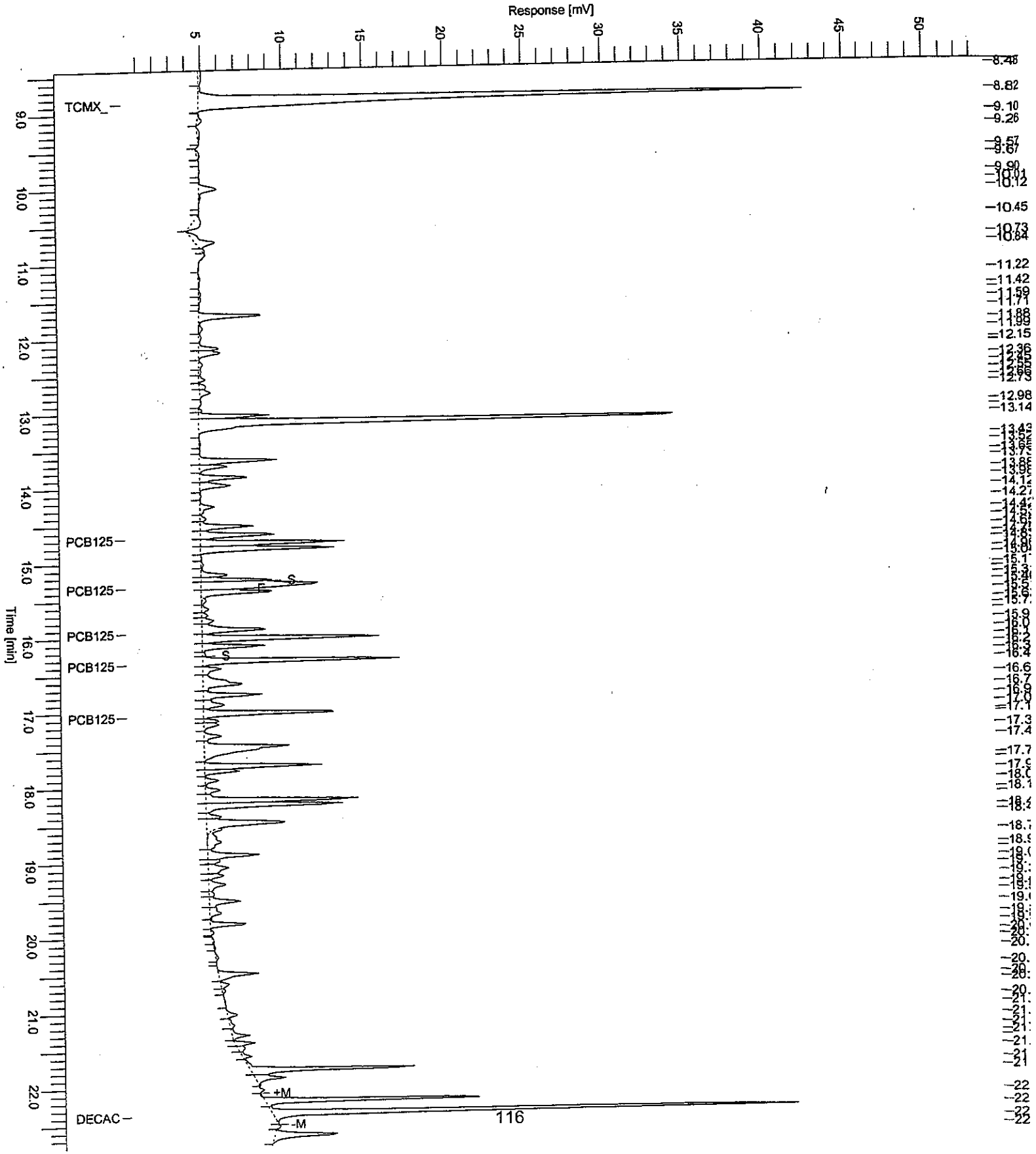
Report stored in ASCII file: G:\gc22\CHA\243a070q.TX0

FA 9/2/04

Sample Name : 174301-001,94184
FileName : G:\gc22\cha\243a070.raw
Date : 9/2/04 9:23:00 AM
Method :
Start Time : 8.43 min
Plot Offset: 0.09 mV

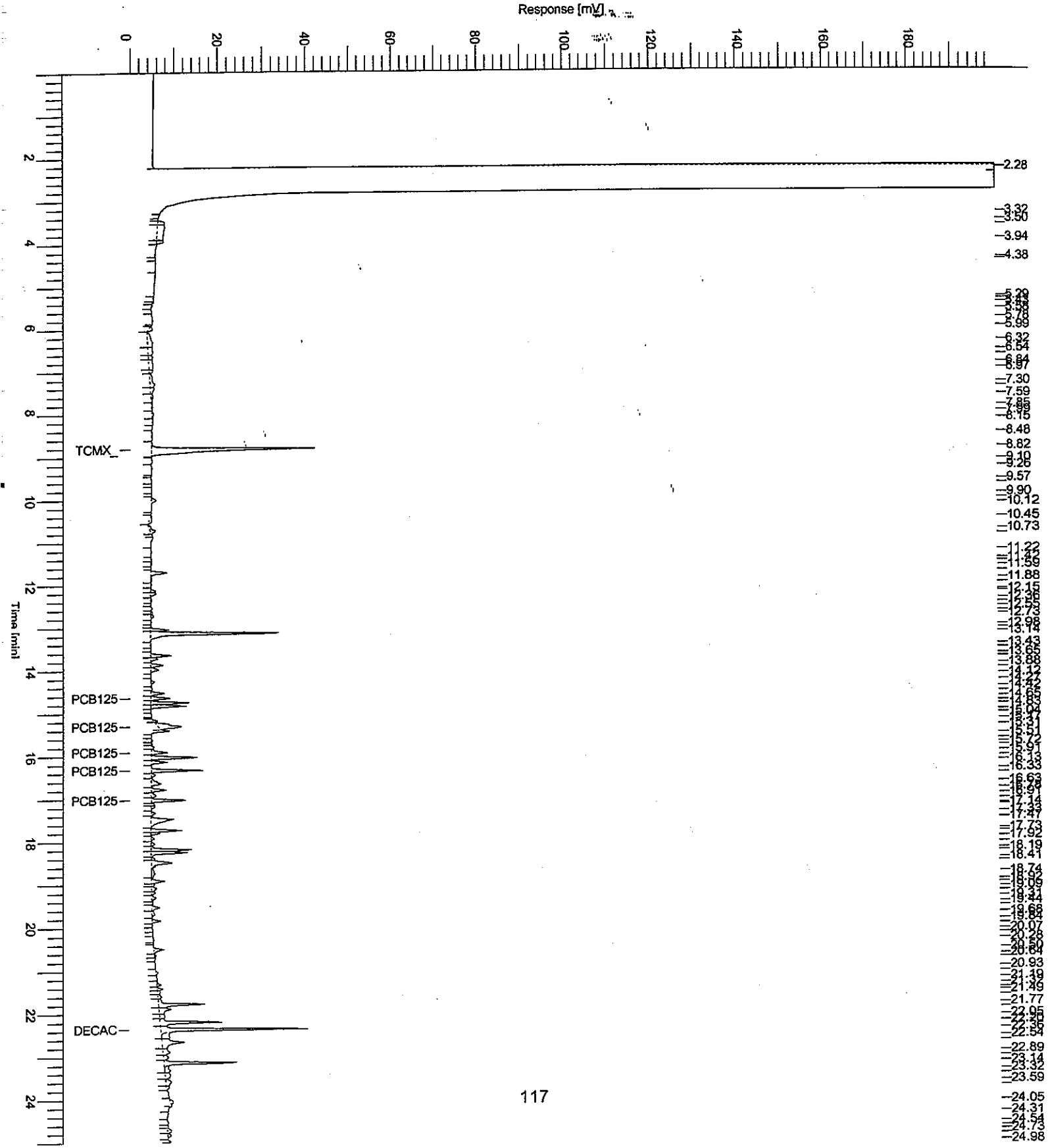
Sample #: 94184

Time of Injection: 9/1/04 1:24:56 AM
End Time : 22.80 min
Plot Scale: 53.9 mV
Low Point : 0.09 mV
High Point : 53.97 mV



Chromatogram

ample Name : 174301-001,94184 Sample #: 94184 Page 1 of 1
ileName : G:\gc22\cha\243a070.raw
ate : 9/2/04 9:19:27 AM
lethod : gc22ins Time of Injection: 9/1/04 1:24:56 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 200.00 mV
lot Offset: 0.00 mV Plot Scale: 200.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174301-001,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 70

Date : 9/2/04 9:21:15 AM
Data Acquisition Time : 9/1/04 1:24:56 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b070q.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	9.133	188696.87	51.8170	0.668	1	34.59	6.92
Aroclor-1254	16.370	154087.05	209.8931	0.668	1	140.12	28.02
Decachlorobiphenyl_	22.822	110762.15	45.1922	0.668	1	30.17	6.03
		453546.06	306.9024			204.87	40.97

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.730	29351.28	439.4929	0.668	1	293.39	~~58.68~~
PCB1254#2	15.414	29289.62	160.4663	0.668	1	107.12	21.42
PCB1254#3	15.986	12556.66	211.1852	0.668	1	140.98	28.20
PCB1254#4	16.370	45590.14	191.4254	0.668	1	127.79	25.56
PCB1254#5	18.278	37299.34	199.2596	0.668	1	133.02	26.60
		154087.05	1201.8296			802.29	160.46

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b070q.TX0

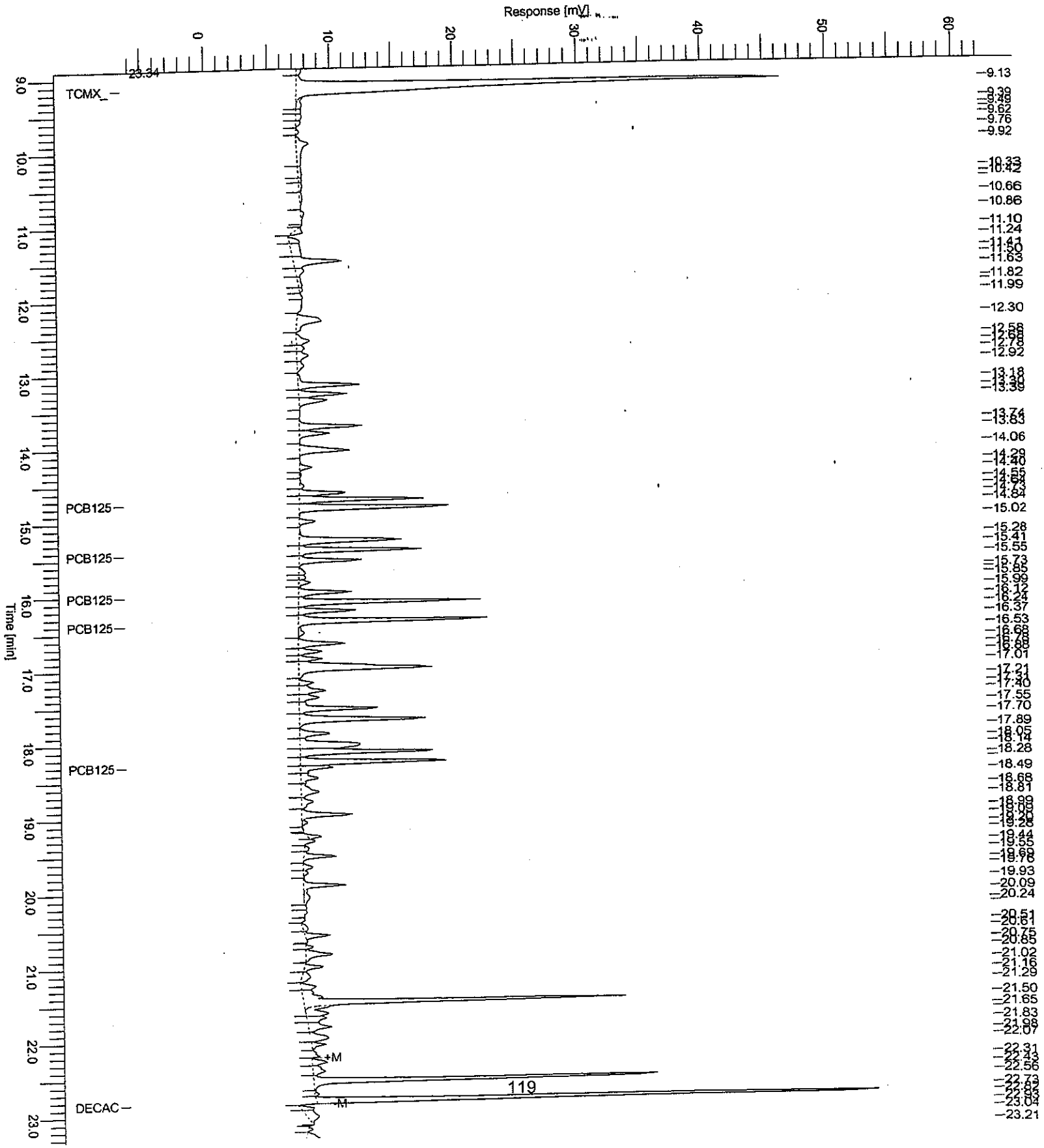
DA 9/2/04

GC22 Rtx-CLPesticides II

ample Name : 174301-001,94184
leName : G:\gc22\chb\243b070.raw
ate : 9/2/04 9:21:19 AM
lethod :
tart Time : 8.90 min
lot Offset: -6.60 mV

Sample #: 94184

Time of Injection: 9/1/04 1:24:56 AM
End Time : 23.33 min
Low Point : -6.60 mV
High Point : 62.23 mV
Plot Scale: 68.8 mV



GC22 Rtx-CLPesticides II

ample Name : 174301-001,94184
ileName : G:\gc22\chb\243b070
ate : 9/2/04 9:19:31 AM
lethod : gc22ins
tart Time : 0.00 min
lot Offset: 0.00 mV

Sample #: 94184

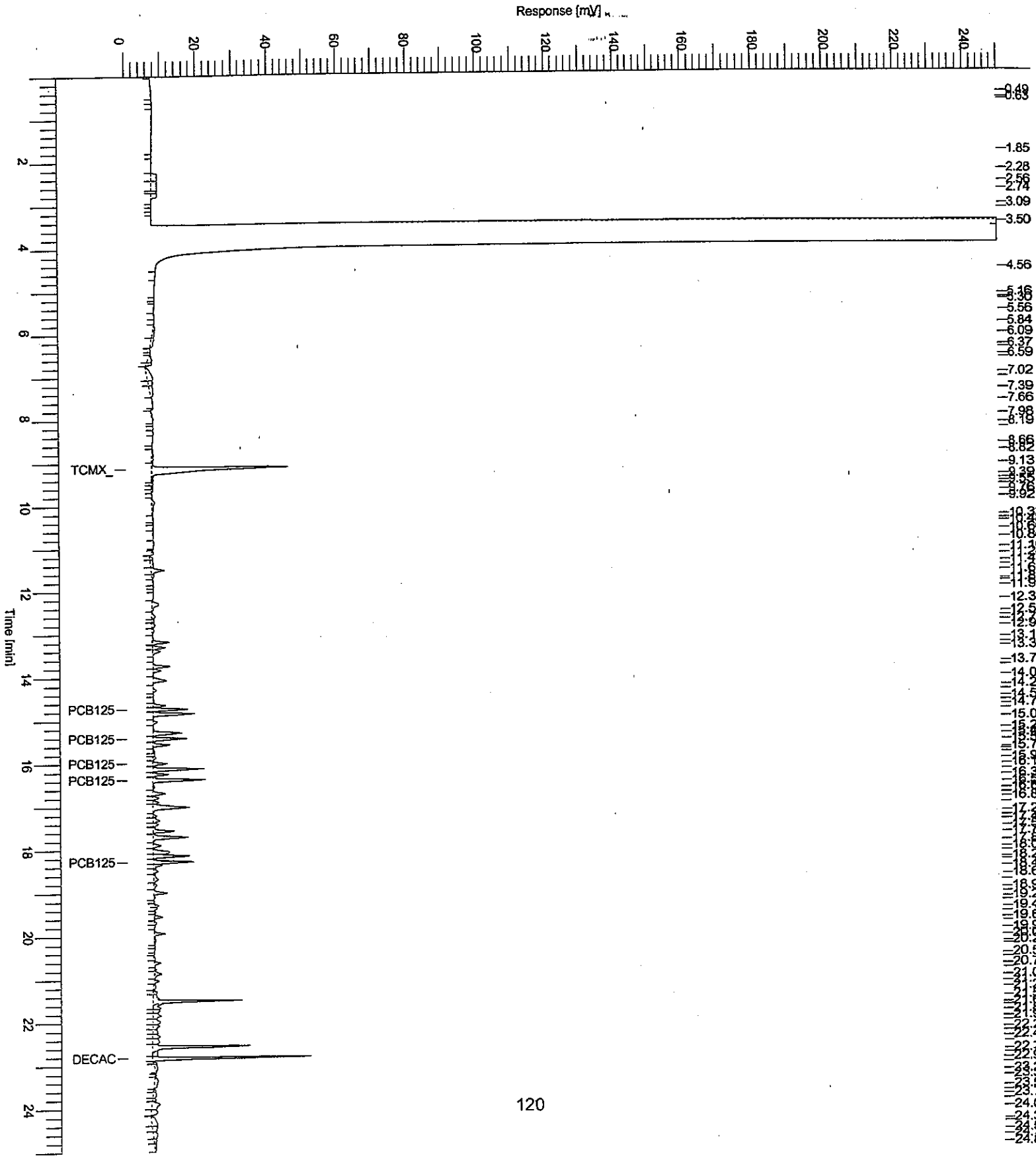
Page 1 of 1

Time of Injection: 9/1/04 1:24:56 AM

End Time : 25.00 min
Plot Scale: 250.0 mV

Low Point : 0.00 mV

High Point : 250.00 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174301-001,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 70

Date : 9/2/04 9:08:48 AM
Data Acquisition Time : 9/1/04 1:24:56 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a070p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.822	164373.32	50.0350	0.668	1	33.40	6.68
Aroclor-1016	13.652	22961.80	50.4044	0.668	1	33.65	6.73
Aroclor-1260	17.475	59598.42	74.4460	0.668	1	49.70	9.94
Decachlorobiphenyl	22.363	82711.68	45.1316	0.668	1	30.13	6.03
		329645.22	220.0170			146.87	29.37

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.897	85.41	1.4599	0.668	1	0.97	0.19
PCB1016#3	12.550	1164.55	12.0661	0.668	1	8.05	1.61
PCB1016#4	12.732	2451.10	35.4611	0.668	1	23.67	4.73
PCB1016#2	12.199	4763.10	30.9778	0.668	1	20.68	4.14
PCB1016#5	13.652	14497.65	186.6829	0.668	1	124.62	24.92
		22961.80	266.6479			178.00	35.60

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.784	10453.11	78.6373	0.668	1	52.49	10.50
PCB1260#2	17.475	15769.26	75.0318	0.668	1	50.09	10.02
PCB1260#3	18.488	21031.87	210.7392	0.668	1	140.68	28.14
PCB1260#4	19.086	5985.90	52.3027	0.668	1	34.92	6.98
PCB1260#5	19.838	6358.28	26.1425	0.668	1	17.45	3.49
		59598.42	442.8536			295.63	59.13

PA 9/2/04

----------CURTIS & TOMPKINS LTD----------

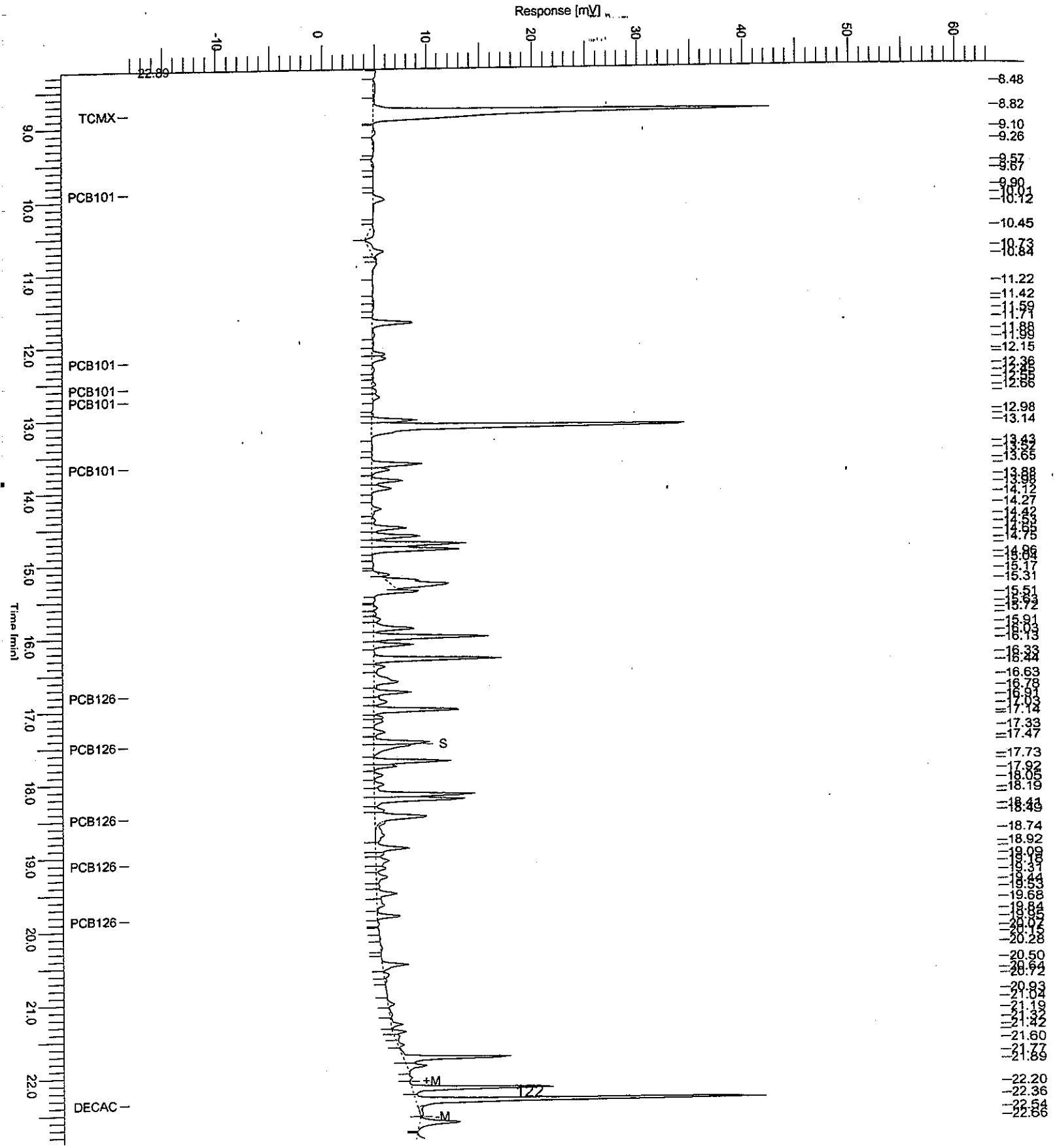
Report stored in ASCII file: G:\gc22\CHA\243a070p.TX0

GC22 Rtx-CLPesticides

ample Name : 174301-001,94184
leName : G:\gc22\cha\243a070.raw
ate : 9/2/04 9:08:53 AM
ethod :
tart Time : 8.23 min
lot Offset: -18.19 mV

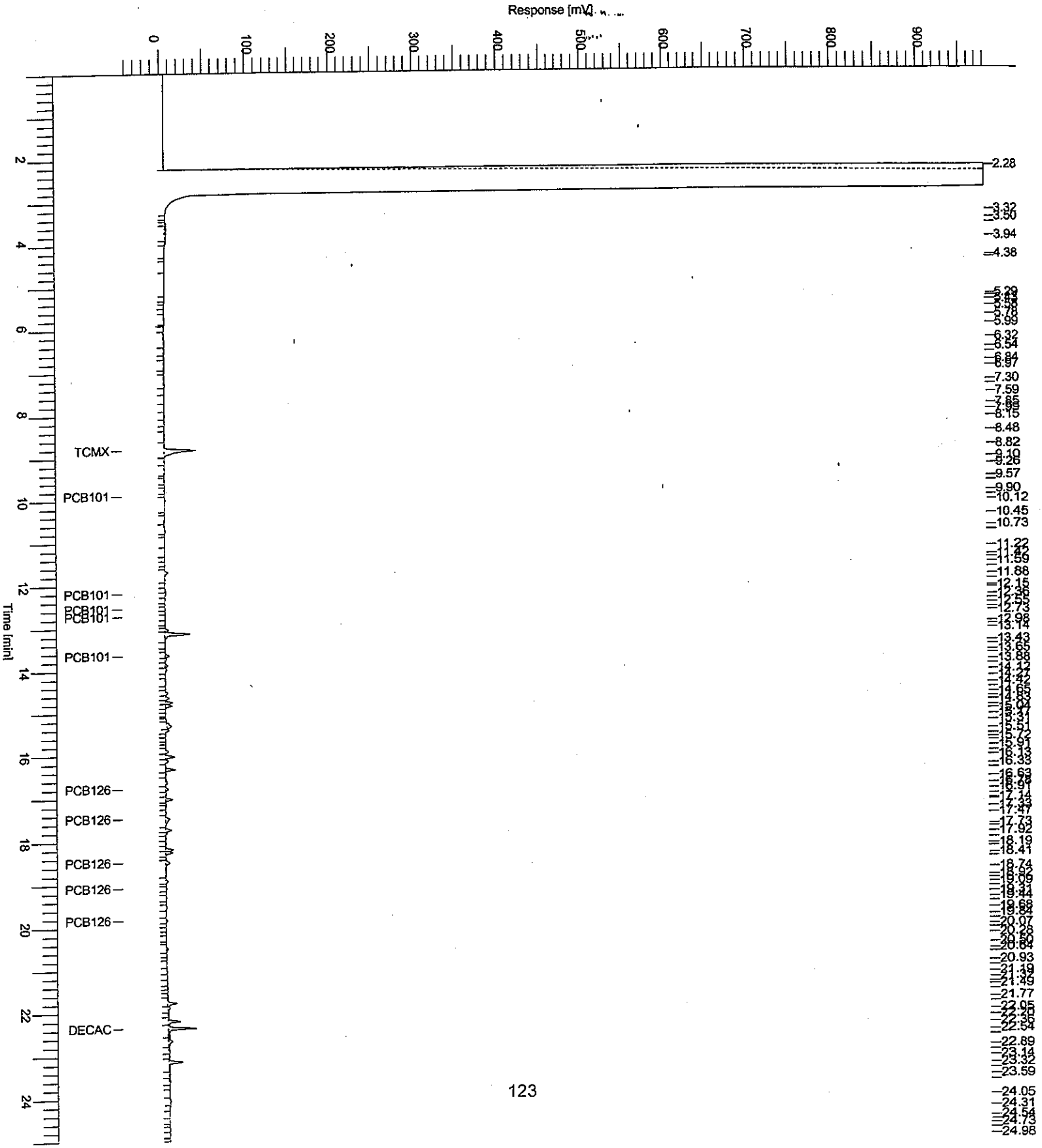
Sample #: 94184

Time of Injection: 9/1/04 1:24:56 AM
End Time : 22.88 min
Low Point : -18.19 mV
High Point : 63.25 mV
Plot Scale: 81.4 mV



GC22 Rtx-CLPesticides

ample Name : 174301-001,94184 Sample #: 94184 Page 1 of 1
leName : G:\gc22\cha\243a070.raw
ate : 9/2/04 9:06:59 AM
ethod : gc22ins Time of Injection: 9/1/04 1:24:56 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -45.12 mV High Point : 980.94 mV
cale Factor: 1.0 Plot Offset: -45.12 mV Plot Scale: 1026.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174301-001,94184
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 70

Date : 9/2/04 9:10:32 AM
Data Acquisition Time : 9/1/04 1:24:56 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b070p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.133	183564.68	50.4077	0.668	1	33.65	6.73
Aroclor-1016	13.737	44766.05	86.9729	0.668	1	58.06	11.61
Aroclor-1260	17.010	84953.04	92.7245	0.668	1	61.90	12.38
Decachlorobiphenyl	22.822	111565.41	45.5200	0.668	1	30.39	6.08
		424849.19	275.6252			184.00	36.80

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	0.00	0.0000	0.668	1	0.00	0.00
PCB1016#2	11.627	6403.23	73.0173	0.668	1	48.74	9.75
PCB1016#3	12.303	16632.05	92.7923	0.668	1	61.94	12.39
PCB1016#4	12.583	6174.29	56.1526	0.668	1	37.49	7.50
PCB1016#5	13.737	15556.48	198.1819	0.668	1	132.30	26.46
		44766.05	420.1440			280.47	56.09

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.010	44501.95	256.3439	0.668	1	171.12	34.22
PCB1260#2	17.554	19775.92	106.5009	0.668	1	71.10	14.22
PCB1260#3	18.678	3695.15	31.4747	0.668	1	21.01	4.20
PCB1260#4	19.283	4883.35	37.8379	0.668	1	25.26	5.05
PCB1260#5	19.932	12096.67	38.9666	0.668	1	26.01	5.20
		84953.04	471.1241			314.50	62.90

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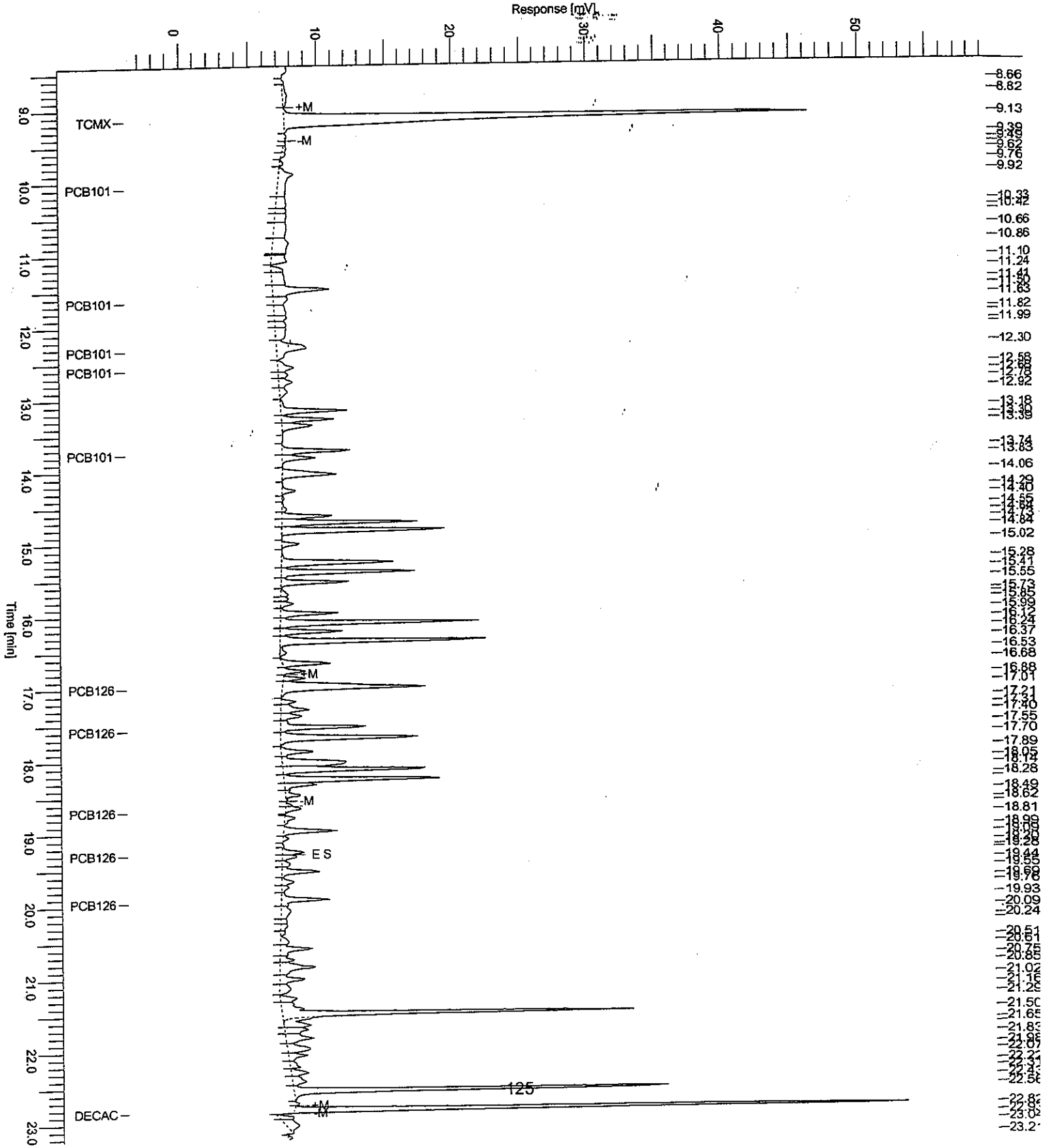
Report stored in ASCII file: G:\gc22\CHB\243b070p.TX0

GC22 Rtx-CLPesticides II

Sample Name : 174301-001,94184
FileName : G:\gc22\chb\243b070.raw
Date : 9/2/04 9:10:37 AM
Method :
Start Time : 8.42 min
Plot Offset: -3.98 mV

Sample #: 94184

Time of injection: 9/1/04 1:24:56 AM
End Time : 23.23 min
Low Point : -3.98 mV
High Point : 59.48 mV
Plot Scale: 63.5 mV

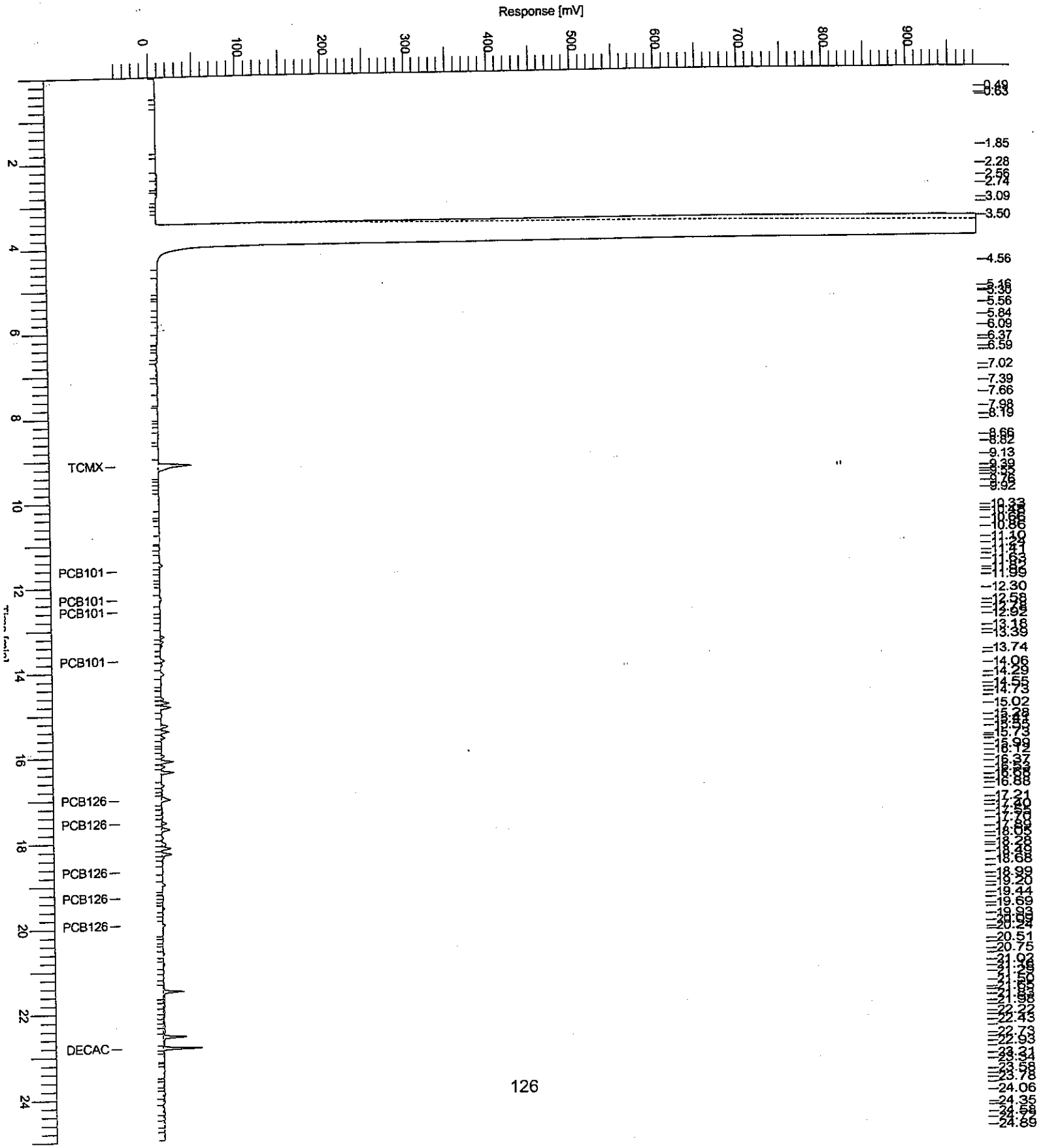


GC22 Rtx-CLPesticides II

nple Name : 174301-001,94184
Name : G:\gc22\chb\243b070
e : 9/2/04 9:06:54 AM
thod : gc22ins
rt Time : 0.00 min
ıle Factor: 1.0

Sample #: 94184

Time of Injection: 9/1/04 1:24:56 AM
End Time : 25.00 min
Low Point : -43.08 mV
High Point : 980.29 mV
Plot Offset: -43.08 mV
Plot Scale: 1023.4 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22	Instid : GC22	Instid : GC22
Seqnum : 254350716071	Seqnum : 254350716083	Seqnum : 254350716084
Filename : 243_071	Filename : 243_083	Filename : 243_084
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-002	Samplenum: QC263072	Samplenum: QC263073
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94184	Batchnum : 94184	Batchnum : 94184
Inj : 01-SEP-2004 01:53	Inj : 01-SEP-2004 07:33	Inj : 01-SEP-2004 08:01
Units : ug/Kg		

MSS: 15.11 g --> 10.0 ml = 0.6618 ml/g PDF
MS: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF
MSD: 14.99 g --> 10.0 ml = 0.6671 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim	%Rec	RPD	Lim	Flags
Aroclor-1016	ND	A	166.8	76.98	A	46*	113.7	A	68	58-145		39*	27	
Aroclor-1016 Peak # 1				69.20	A		117.5	A						
Aroclor-1016 Peak # 2				79.51	A		115.2	A						
Aroclor-1016 Peak # 3				74.85	A		107.6	A						
Aroclor-1016 Peak # 4				78.60	A		111.6	A						
Aroclor-1016 Peak # 5				82.75	A		116.5	A						
Aroclor-1260	ND	A	166.8	90.89	A	54	125.7	A	75	41-163		32	41	
Aroclor-1260 Peak # 1				90.38	A		126.6	A						
Aroclor-1260 Peak # 2				89.78	A		124.9	A						
Aroclor-1260 Peak # 3				92.29	A		127.8	A						
Aroclor-1260 Peak # 4				91.93	A		126.9	A						
Aroclor-1260 Peak # 5				90.06	A		122.1	A						
TCMX			33.36	10.85	A	32*	15.66	A	47*	62-140		--		
Decachlorobiphenyl			33.36	13.15	A	39*	16.80	A	50	48-149		--		

FA 9/03/04

RR @ 1X, Ar1016 ⓓ on the MS
Re-run confirms the results.

/mcs 9/3/04

No RX per SES
mcs 9/3/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc263072,94184,ms
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 83

Date : 9/1/04 3:33:22 PM
Data Acquisition Time : 9/1/04 7:33:04 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a083p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.820	53283.10	16.2193	0.669	1	10.85	2.17
Aroclor-1016	12.200	52856.64	116.0278	0.669	1	77.61	15.52
Aroclor-1260	19.837	108414.68	135.4237	0.669	1	90.58	18.12
Decachlorobiphenyl	22.362	36023.94	19.6565	0.669	1	13.15	2.63
		250578.37	287.3272			192.19	38.44

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.889	6051.65	103.4490	0.669	1	69.20	13.84
PCB1016#3	12.565	10799.54	111.8958	0.669	1	74.85	14.97
PCB1016#4	12.735	8121.95	117.5036	0.669	1	78.60	15.72
PCB1016#2	12.200	18276.00	118.8617	0.669	1	79.51	15.90
PCB1016#5	13.652	9607.52	123.7138	0.669	1	82.75	16.55
		52856.64	575.4239			384.90	76.98

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.783	17961.50	135.1220	0.669	1	90.38	18.08
PCB1260#2	17.471	28208.91	134.2210	0.669	1	89.78	17.96
PCB1260#3	18.455	13770.39	137.9792	0.669	1	92.29	18.46
PCB1260#4	19.082	15729.13	137.4355	0.669	1	91.93	18.39
PCB1260#5	19.837	32744.76	134.6324	0.669	1	90.06	18.01
		108414.68	679.3902			454.44	90.89

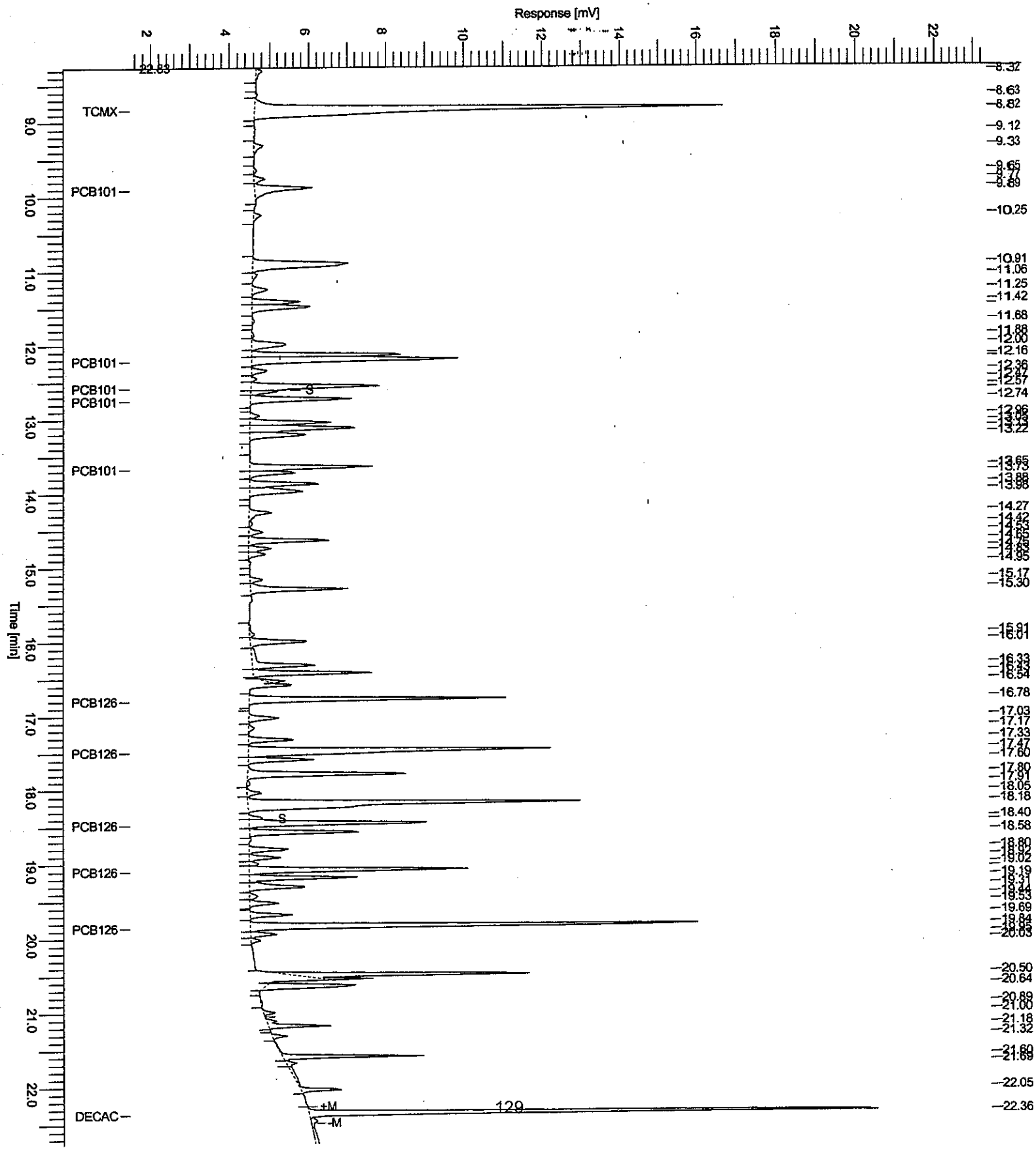
FA 9/01/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\243a083p.TX0

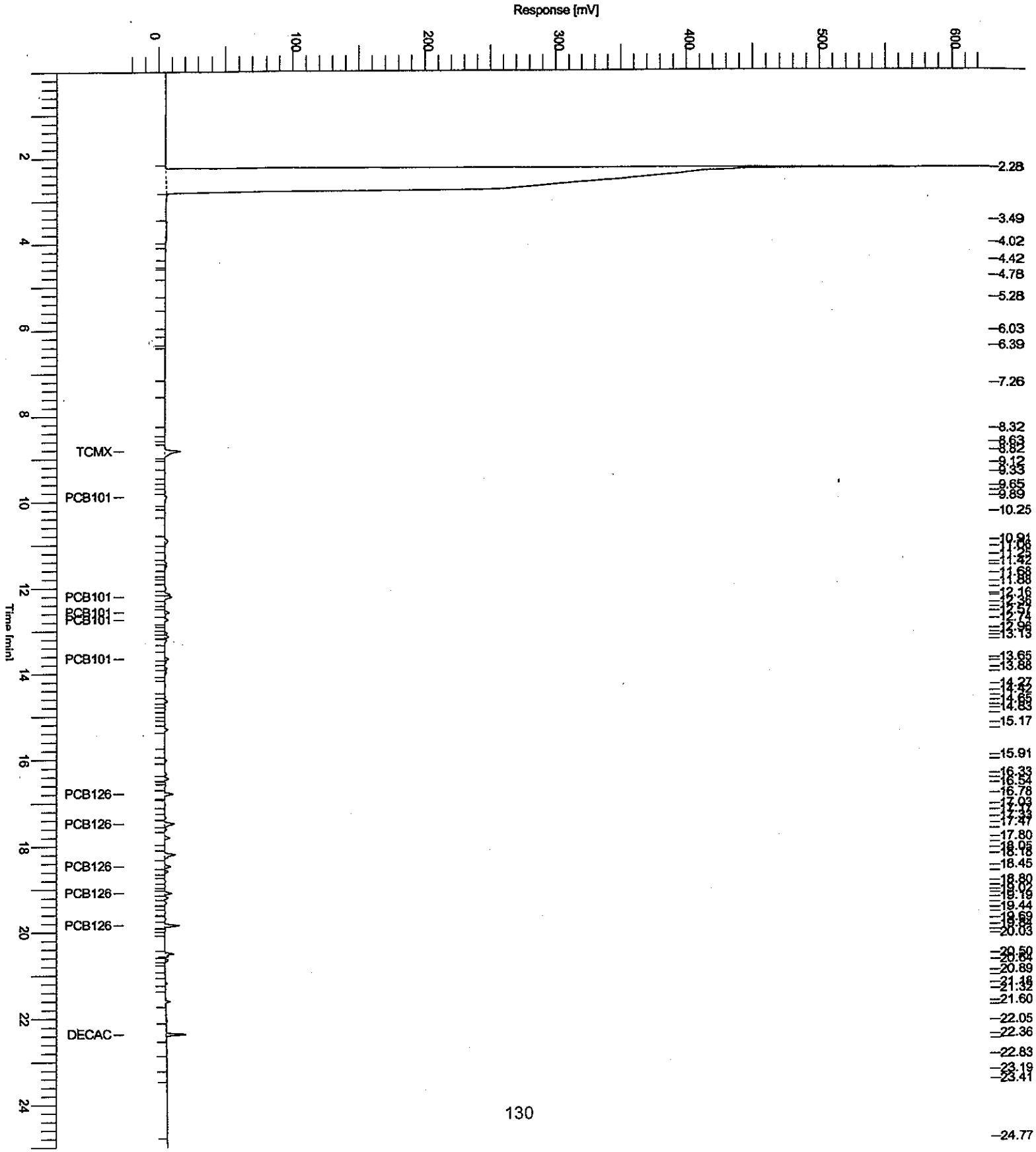
GC22 Rtx-CLPesticides

Sample Name : qc263072,94184,ms Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a083.raw
Date : 9/1/04 3:33:26 PM
Method : Time of Injection: 9/1/04 7:33:04 AM
Start Time : 8.27 min End Time : 22.77 min Low Point : 1.47 mV High Point : 23.36 mV
Plot Offset: 1.47 mV Plot Scale: 21.9 mV



GC22 Rtx-CLPesticides

ample Name : qc263072,94184,ms Sample #: 94184 Page 1 of 1
ileName : G:\gc22\cha\243a083.raw
ate : 9/1/04 3:23:37 PM
ethod : gc22ins Time of Injection: 9/1/04 7:33:04 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -26.72 mV High Point : 627.94 mV
cale Factor: 1.0 Plot Offset: -26.72 mV Plot Scale: 654.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263072,94184,ms
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 83

Date : 9/1/04 3:23:44 PM
Data Acquisition Time : 9/1/04 7:33:04 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b083.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.127	61450.00	16.8745	0.669	1	11.29	2.26
Aroclor-1016	12.307	76681.10	148.9785	0.669	1	99.65	19.93
Aroclor-1260	19.931	136336.89	148.8090	0.669	1	99.54	19.91
Decachlorobiphenyl	22.821	59437.48	24.2512	0.669	1	16.22	3.24
		333905.48	338.9132			226.70	45.34

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.057	6660.37	112.2663	0.669	1	75.09	15.02
PCB1016#2	11.631	10735.98	122.4244	0.669	1	81.89	16.38
PCB1016#3	12.307	34604.00	193.0602	0.669	1	129.14	25.83
PCB1016#4	12.573	14225.50	129.3749	0.669	1	86.54	17.31
PCB1016#5	13.736	10455.26	133.1948	0.669	1	89.09	17.82
		76681.10	690.3205			461.75	92.35

Group Report For : Aroclor-1260

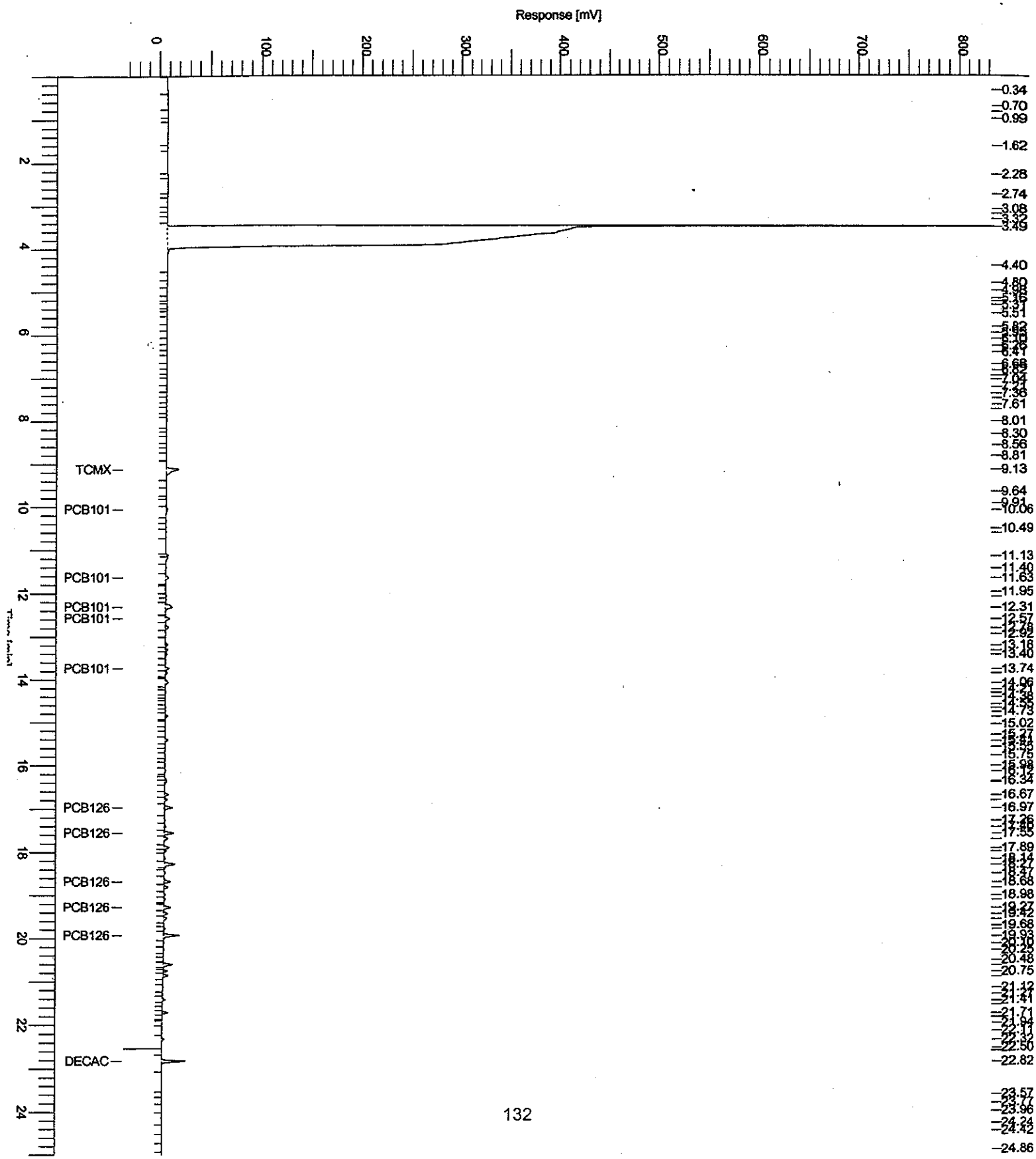
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.968	24468.32	140.9445	0.669	1	94.28	18.86
PCB1260#2	17.552	26817.36	144.4217	0.669	1	96.60	19.32
PCB1260#3	18.678	18439.32	157.0633	0.669	1	105.06	21.01
PCB1260#4	19.272	19484.00	150.9688	0.669	1	100.98	20.20
PCB1260#5	19.931	47127.89	151.8117	0.669	1	101.55	20.31
		136336.89	745.2100			498.47	99.69

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b083.TX0

GC22 Rtx-CLPesticides II

ample Name : qc263072,94184,ms Sample #: 94184 Page 1 of 1
leName : G:\gc22\chb\243b083
ate : 9/1/04 3:23:47 PM
ethod : gc22ins Time of Injection: 9/1/04 7:33:04 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -36.59 mV High Point : 832.59 mV
cale Factor: 1.0 Plot Offset: -36.59 mV Plot Scale: 869.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263073,94184,msd
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 84

Date : 9/1/04 3:35:26 PM
Data Acquisition Time : 9/1/04 8:01:26 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a084p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.821	77094.92	23.4676	0.667	1	15.66	3.13
Aroclor-1016	12.200	77569.85	170.2768	0.667	1	113.59	22.72
Aroclor-1260	19.838	149993.31	187.3606	0.667	1	124.99	25.00
Decachlorobiphenyl	22.362	46157.19	25.1857	0.667	1	16.80	3.36
		350815.27	406.2907			271.04	54.21

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.889	10304.89	176.1554	0.667	1	117.52	23.50
PCB1016#3	12.566	15573.05	161.3549	0.667	1	107.64	21.53
PCB1016#4	12.736	11566.68	167.3400	0.667	1	111.63	22.33
PCB1016#2	12.200	26561.07	172.7453	0.667	1	115.24	23.05
PCB1016#5	13.652	13564.18	174.6629	0.667	1	116.52	23.30
		77569.85	852.2585			568.55	113.71

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.783	25231.00	189.8095	0.667	1	126.62	25.32
PCB1260#2	17.472	39342.70	187.1968	0.667	1	124.88	24.98
PCB1260#3	18.455	19114.78	191.5300	0.667	1	127.77	25.55
PCB1260#4	19.083	21775.32	190.2650	0.667	1	126.93	25.39
PCB1260#5	19.838	44529.51	183.0863	0.667	1	122.14	24.43
		149993.31	941.8876			628.34	125.67

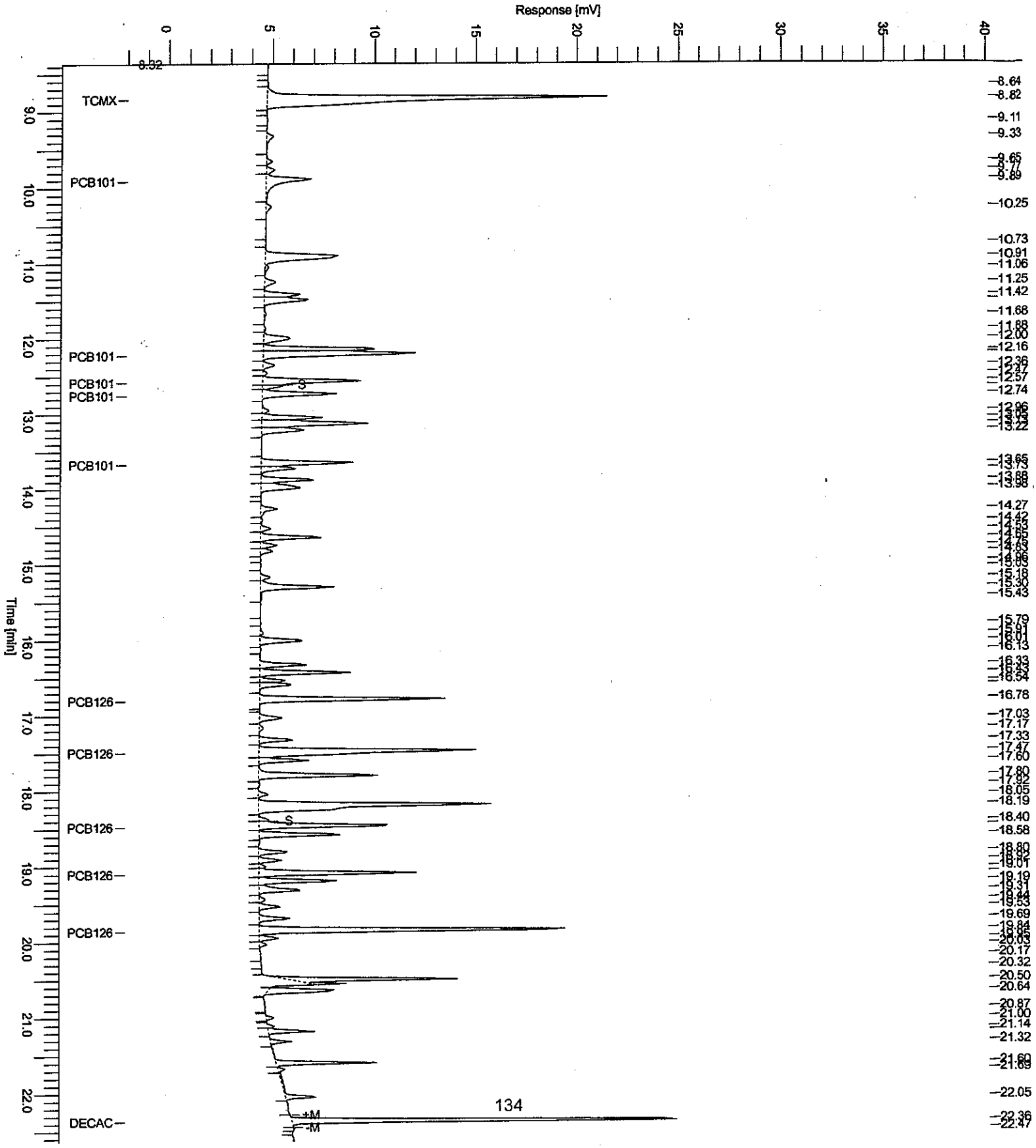
PA
9/01/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\243a084p.TX0

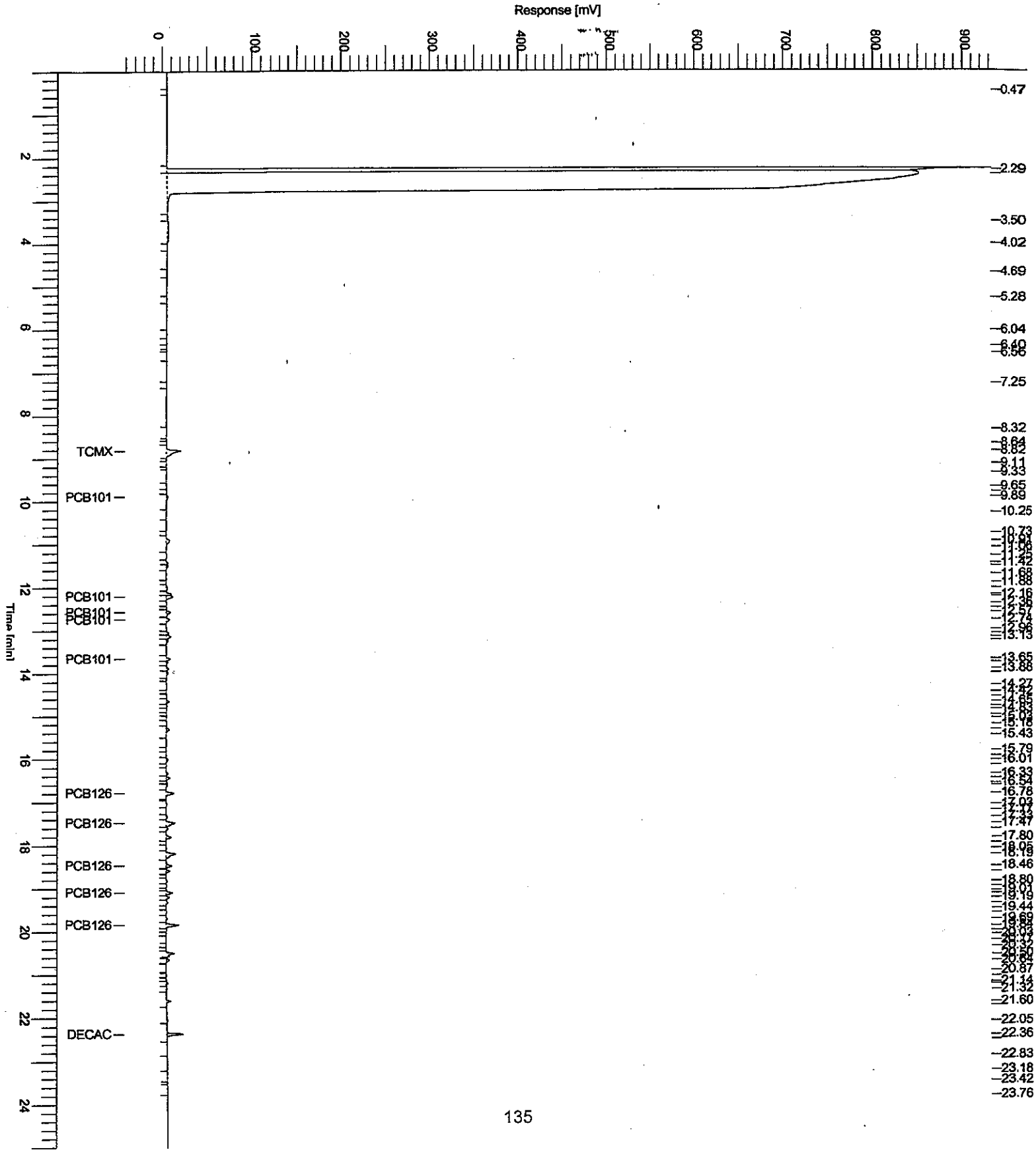
GC22 Rtx-CLPesticides

Sample Name : qc263073,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a084.raw
Date : 9/1/04 3:35:31 PM
Method : Time of Injection: 9/1/04 8:01:26 AM
Start Time : 8.37 min End Time : 22.63 min Low Point : -2.03 mV High Point : 40.14 mV
Plot Offset: -2.03 mV Plot Scale: 42.2 mV



GC22 Rtx-CLPesticides

ample Name : qc263073,94184,msd Sample #: 94184 Page 1 of 1
ileName : G:\gc22\cha\243a084.raw
ate : 9/1/04 3:23:42 PM
ethod : gc22ins Time of Injection: 9/1/04 8:01:26 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -41.91 mV High Point : 932.69 mV
cale Factor: 1.0 Plot Offset: -41.91 mV Plot Scale: 974.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263073,94184,msd
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 84

Date : 9/1/04 3:23:49 PM
Data Acquisition Time : 9/1/04 8:01:26 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b084.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.125	92813.00	25.4869	0.667	1	17.00	3.40
Aroclor-1016	12.307	115568.67	224.5306	0.667	1	149.79	29.96
Aroclor-1260	19.931	195807.87	213.7204	0.667	1	142.58	28.52
Decachlorobiphenyl	22.821	80992.00	33.0457	0.667	1	22.05	4.41
		485181.54	496.7835			331.41	66.28

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.056	10820.95	182.3966	0.667	1	121.68	24.34
PCB1016#2	11.630	16025.00	182.7361	0.667	1	121.91	24.38
PCB1016#3	12.307	51792.00	288.9542	0.667	1	192.76	38.55
PCB1016#4	12.573	21320.91	193.9046	0.667	1	129.36	25.87
PCB1016#5	13.736	15609.81	198.8612	0.667	1	132.66	26.53
		115568.67	1046.8527			698.37	139.67

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.969	34930.00	201.2067	0.667	1	134.23	26.85
PCB1260#2	17.553	38359.81	206.5822	0.667	1	137.81	27.56
PCB1260#3	18.679	26838.83	228.6090	0.667	1	152.51	30.50
PCB1260#4	19.277	28153.00	218.1392	0.667	1	145.52	29.10
PCB1260#5	19.931	67526.23	217.5203	0.667	1	145.11	29.02
		195807.87	1072.0574			715.18	143.04

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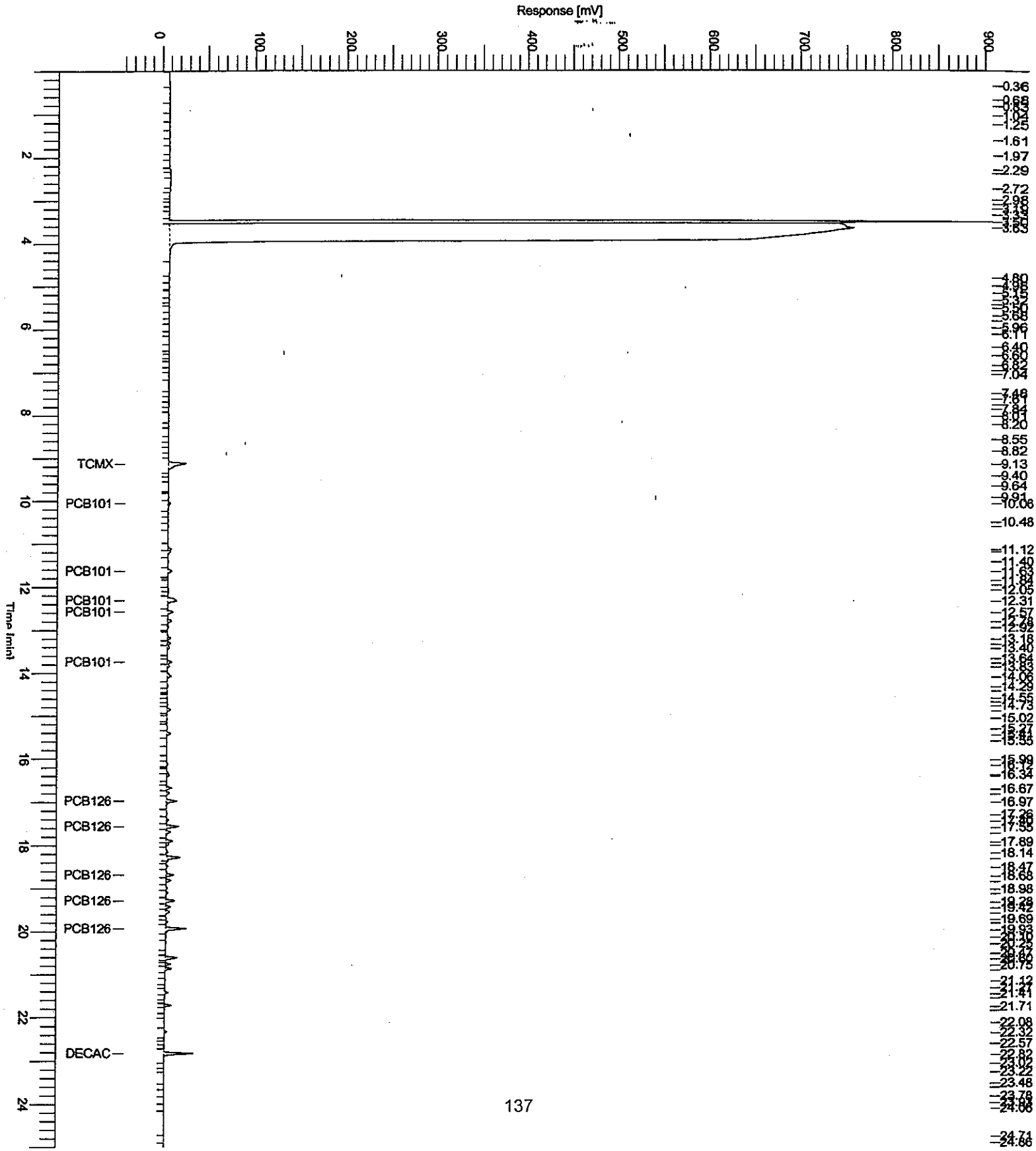
Report stored in ASCII file: G:\gc22\CHB\243b084.TX0

GC22 Rtx-CLPesticides II

Sample Name : qc263073,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b084
Date : 9/1/04 3:23:51 PM
Method : gc22ins Time of Injection: 9/1/04 8:01:26 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -40.34 mV High Point : 908.20 mV
Scale Factor: 1.0 Plot Offset: -40.34 mV Plot Scale: 948.5 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22	Instid : GC22	Instid : GC22
Seqnum : 254350716082	Seqnum : 254350716085	Seqnum : 254350716086
Filename : 243_082	Filename : 243_085	Filename : 243_086
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-006	Samplenum: QC263074	Samplenum: QC263075
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94184	Batchnum : 94184	Batchnum : 94184
Inj : 01-SEP-2004 07:04	Inj : 01-SEP-2004 08:29	Inj : 01-SEP-2004 08:58
Units : ug/Kg		

MSS: 14.59 g --> 10.0 ml = 0.6854 ml/g PDF
MS: 15.33 g --> 10.0 ml = 0.6523 ml/g PDF
MSD: 14.90 g --> 10.0 ml = 0.6711 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
Aroclor-1016	ND	A	167.8	158.6	A	97	182.8	A	109	58-145	11	27	
Aroclor-1016 Peak # 1				131.1	A		173.5	A					
Aroclor-1016 Peak # 2				167.9	A		187.3	A					
Aroclor-1016 Peak # 3				154.2	A		176.1	A					
Aroclor-1016 Peak # 4				167.4	A		185.9	A					
Aroclor-1016 Peak # 5				172.4	A		191.5	A					
Aroclor-1260	ND	A	167.8	179.7	A	110	199.9	A	119	41-163	8	41	
Aroclor-1260 Peak # 1				183.9	A		203.3	A					
Aroclor-1260 Peak # 2				178.6	A		198.7	A					
Aroclor-1260 Peak # 3				182.2	A		203.6	A					
Aroclor-1260 Peak # 4				181.5	A		201.6	A					
Aroclor-1260 Peak # 5				172.2	A		192.3	A					
TCMX			33.56	24.69	A	76	28.37	A	85	62-140	--		
Decachlorobiphenyl			33.56	24.06	A	74	27.06	A	81	48-149	--		

PA 9/2/04

/hrcw 9/3/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc263074,94184,ms
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 85

Date : 9/2/04 9:00:25 AM
Data Acquisition Time : 9/1/04 8:29:44 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a085p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.822	124354.12	37.8532	0.652	1	24.69	4.94
Aroclor-1016	12.201	112389.89	246.7116	0.652	1	160.93	32.19
Aroclor-1260	19.839	218923.10	273.4627	0.652	1	178.38	35.68
Decachlorobiphenyl	22.354	67597.50	36.8846	0.652	1	24.06	4.81
		523264.61	594.9121			388.07	77.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.891	11753.37	200.9162	0.652	1	131.06	26.21
PCB1016#3	12.567	22812.11	236.3600	0.652	1	154.18	30.84
PCB1016#4	12.737	17736,84	256.6063	0.652	1	167.39	33.48
PCB1016#2	12.201	39567.81	257.3373	0.652	1	167.87	33.57
PCB1016#5	13.653	20519.76	264.2283	0.652	1	172.36	34.47
		112389.89	1215.4483			792.86	158.57

PA 9/2/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.784	37474.50	281.9157	0.652	1	183.90	36.78
PCB1260#2	17.473	57533.65	273.7513	0.652	1	178.57	35.71
PCB1260#3	18.461	27869.19	279.2492	0.652	1	182.16	36.43
PCB1260#4	19.083	31843.20	278.2346	0.652	1	181.50	36.30
PCB1260#5	19.839	64202.56	263.9735	0.652	1	172.19	34.44
		218923.10	1377.1243			898.32	179.66

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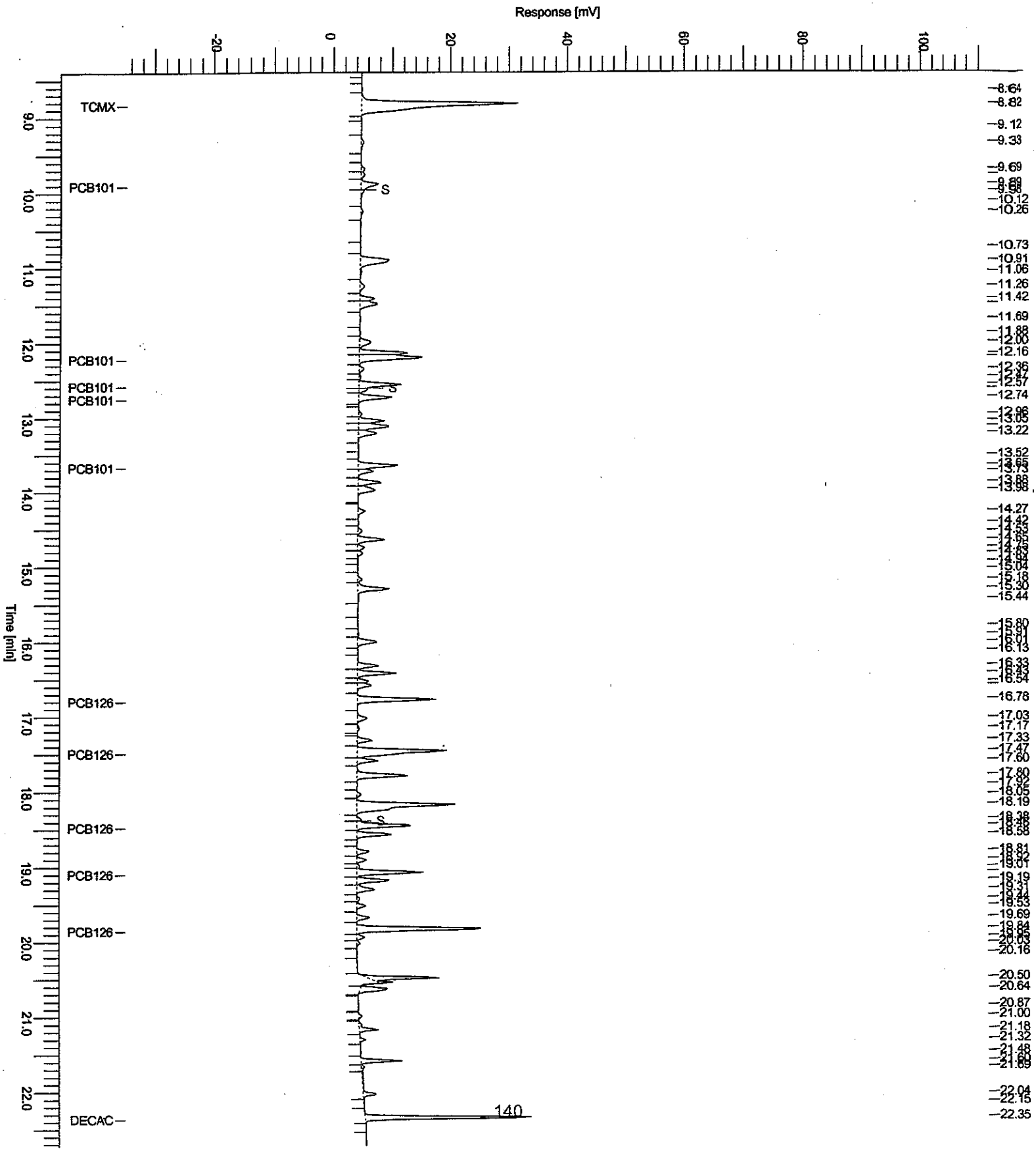
Report stored in ASCII file: G:\gc22\CHA\243a085p.TX0

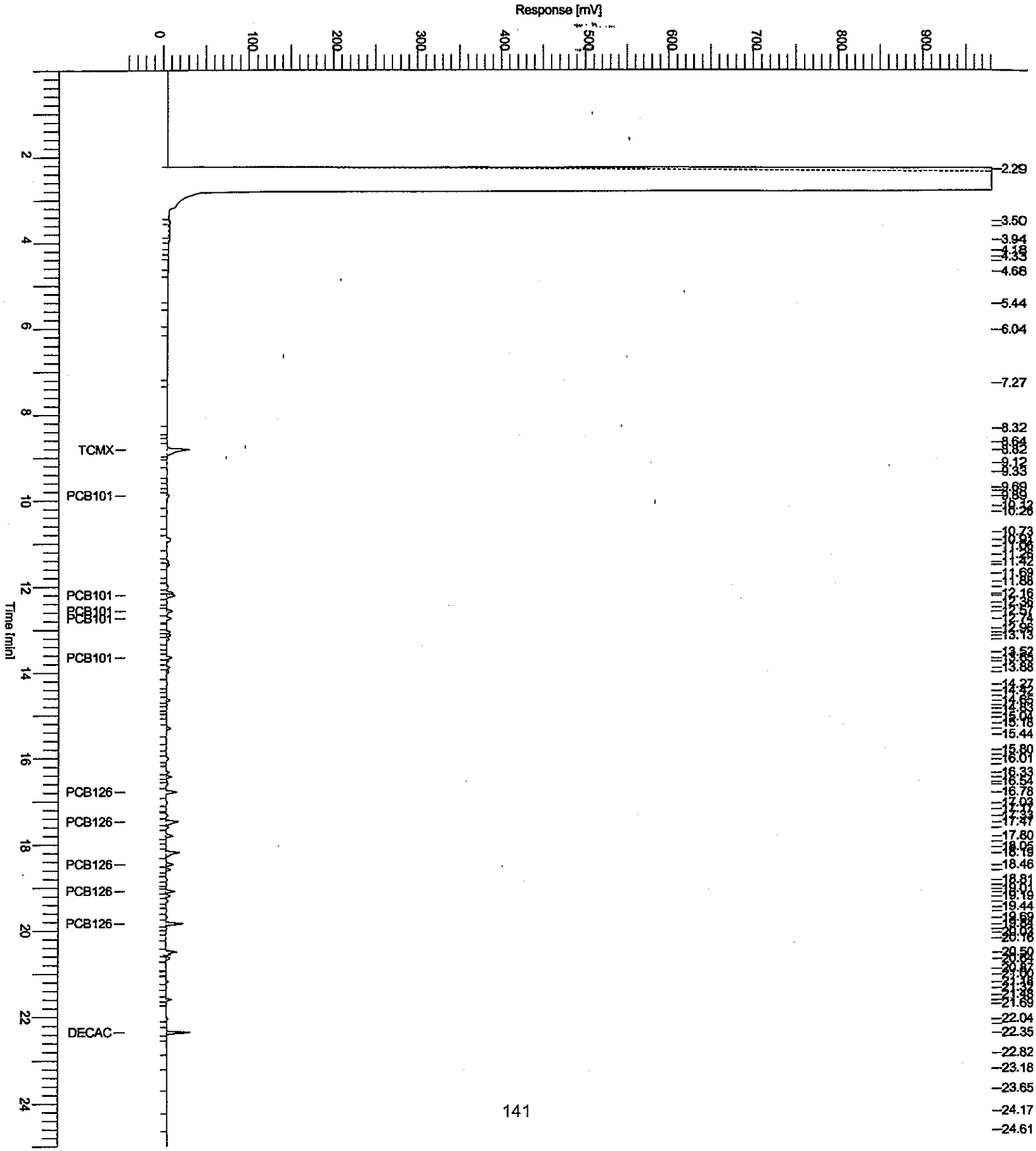
GC22 Rtx-CLPesticides

Sample Name : qc263074,94184,ms Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a085.raw
Date : 9/2/04 9:00:29 AM
Method : Time of Injection: 9/1/04 8:29:44 AM
Start Time : 8.40 min End Time : 22.73 min Low Point : -34.87 mV High Point : 111.56 mV
Plot Offset: -34.87 mV Plot Scale: 146.4 mV



GC22 Rtx-CLPesticides

Sample Name : qc263074,94184,ms Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a085.raw
Date : 9/2/04 8:52:19 AM
Method : gc22ins Time of Injection: 9/1/04 8:29:44 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -44.33 mV High Point : 980.95 mV
Scale Factor: 1.0 Plot Offset: -44.33 mV Plot Scale: 1025.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263074,94184,ms
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 85

Date : 9/2/04 8:59:02 AM
Data Acquisition Time : 9/1/04 8:29:44 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b085p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.131	139436.00	38.2898	0.652	1	24.98	5.00
Aroclor-1016	12.307	132954.60	258.3085	0.652	1	168.50	33.70
Aroclor-1260	19.932	264567.04	288.7696	0.652	1	188.37	37.67
Decachlorobiphenyl	22.819	110338.50	45.0194	0.652	1	29.37	5.87
		647296.13	630.3873			411.21	82.24

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.057	13704.80	231.0064	0.652	1	150.69	30.14
PCB1016#2	11.631	21189.08	241.6230	0.652	1	157.61	31.52
PCB1016#3	12.307	47343.47	264.1353	0.652	1	172.30	34.46
PCB1016#4	12.574	29148.28	265.0913	0.652	1	172.92	34.58
PCB1016#5	13.736	21568.96	274.7779	0.652	1	179.24	35.85
		132954.60	1276.6339			832.77	166.55

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.969	48527.00	279.5293	0.652	1	182.34	36.47
PCB1260#2	17.554	53112.39	286.0305	0.652	1	186.58	37.32
PCB1260#3	18.679	34661.53	295.2416	0.652	1	192.59	38.52
PCB1260#4	19.278	38813.50	300.7404	0.652	1	196.18	39.24
PCB1260#5	19.932	89452.61	288.1511	0.652	1	187.97	37.59
		264567.04	1449.6930			945.66	189.13

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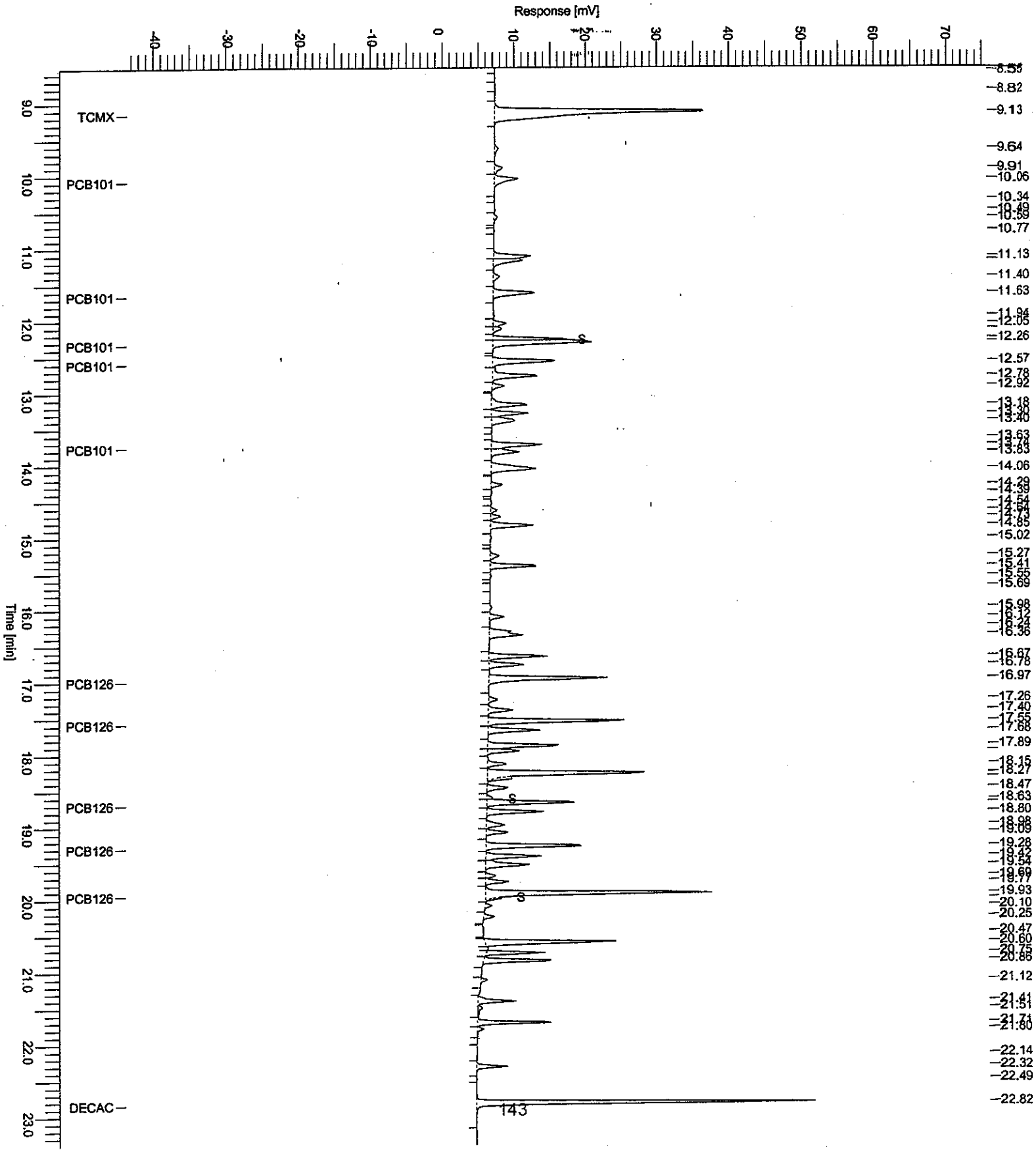
Report stored in ASCII file: G:\gc22\CHB\243b085p.TX0

GC22 Rtx-CLPesticides II

Sample Name : qc263074,94184,ms
FileName : G:\gc22\chb\243b085.raw
Date : 9/2/04 8:59:06 AM
Method :
Start Time : 8.52 min
Plot Offset: -43.63 mV

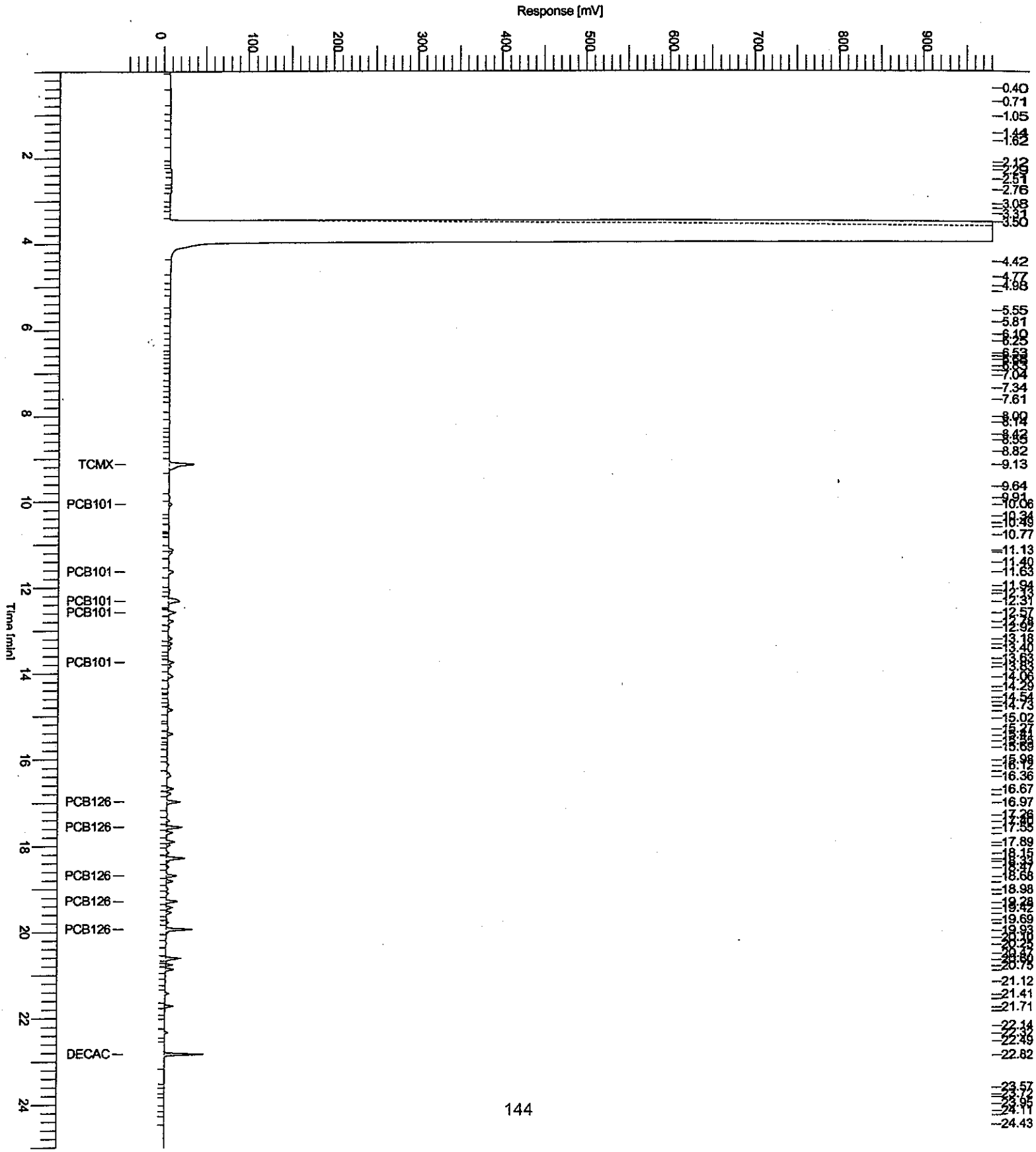
Sample #: 94184
Page 1 of 1

Time of Injection: 9/1/04 8:29:44 AM
End Time : 23.40 min
Low Point : -43.63 mV
High Point : 75.81 mV
Plot Scale: 119.4 mV



GC22 Rtx-CLPesticides II

ample Name : qc263074,94184,ms Sample #: 94184 Page 1 of 1
ileName : G:\gc22\chb\243b085
ate : 9/2/04 8:52:10 AM
ethod : gc22ins Time of Injection: 9/1/04 8:29:44 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -44.00 mV High Point : 980.32 mV
cale Factor: 1.0 Plot Offset: -44.00 mV Plot Scale: 1024.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263075,94184,msd
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 86

Date : 9/2/04 9:01:57 AM
Data Acquisition Time : 9/1/04 8:58:04 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a086p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.820	138863.53	42.2699	0.671	1	28.37	5.67
Aroclor-1016	12.200	124645.91	273.6153	0.671	1	183.63	36.73
Aroclor-1260	19.837	236794.80	295.7867	0.671	1	198.51	39.70
Decachlorobiphenyl	22.355	73898.03	40.3225	0.671	1	27.06	5.41
		574202.27	651.9944			437.58	87.52

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.889	15127.07	258.5875	0.671	1	173.55	34.71
PCB1016#3	12.566	25318.63	262.3305	0.671	1	176.06	35.21
PCB1016#4	12.735	19141.16	276.9233	0.671	1	185.85	37.17
PCB1016#2	12.200	42903.41	279.0311	0.671	1	187.27	37.45
PCB1016#5	13.652	22155.63	285.2931	0.671	1	191.47	38.29
		124645.91	1362.1655			914.21	182.84

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.783	40257.00	302.8481	0.671	1	203.25	40.65
PCB1260#2	17.471	62210.43	296.0039	0.671	1	198.66	39.73
PCB1260#3	18.454	30276.14	303.3668	0.671	1	203.60	40.72
PCB1260#4	19.082	34374.10	300.3487	0.671	1	201.58	40.32
PCB1260#5	19.837	69677.14	286.4826	0.671	1	192.27	38.45
		236794.80	1489.0500			999.36	199.87

PA 9/2/04

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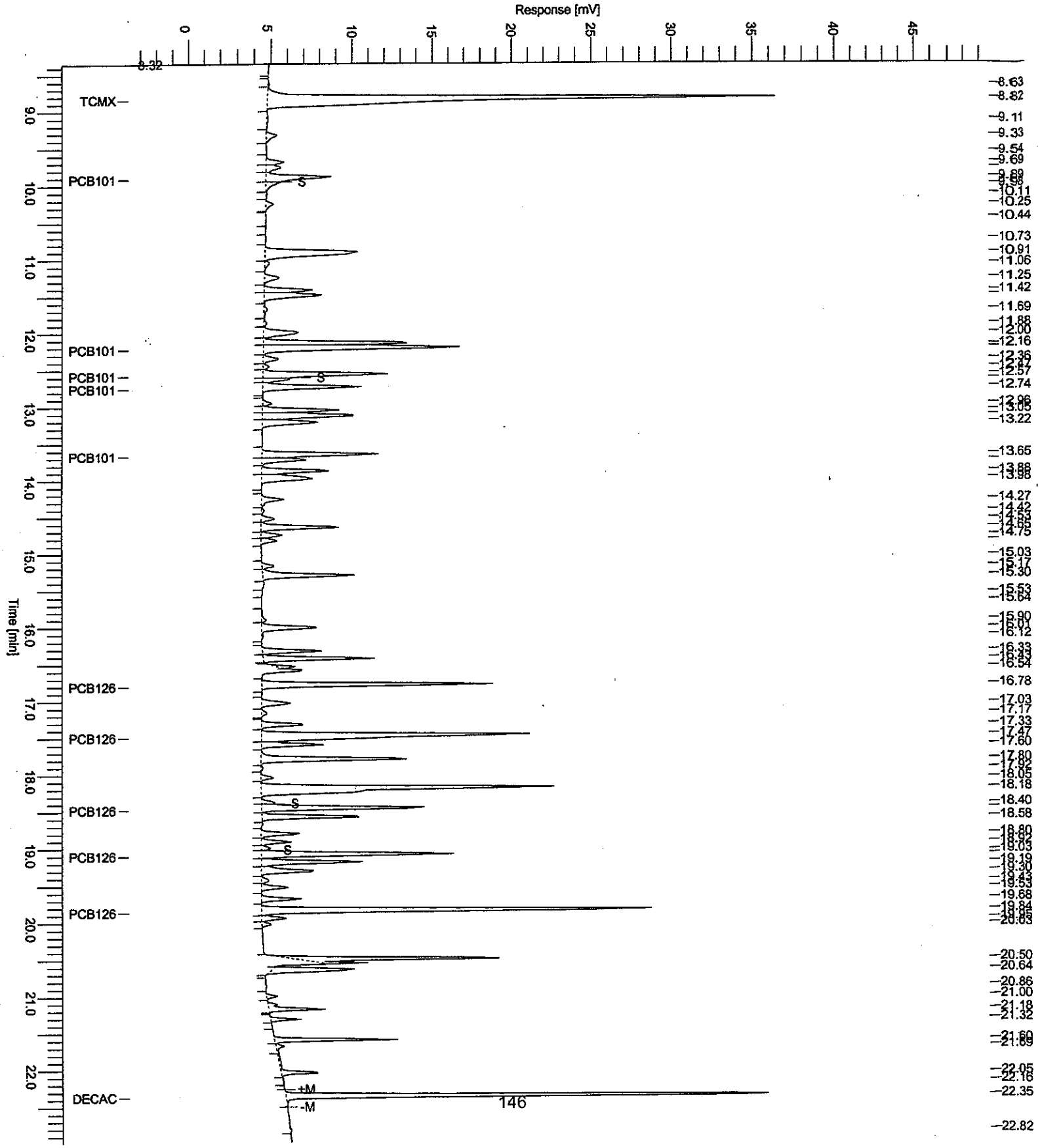
Report stored in ASCII file: G:\gc22\CHA\243a086p.TX0

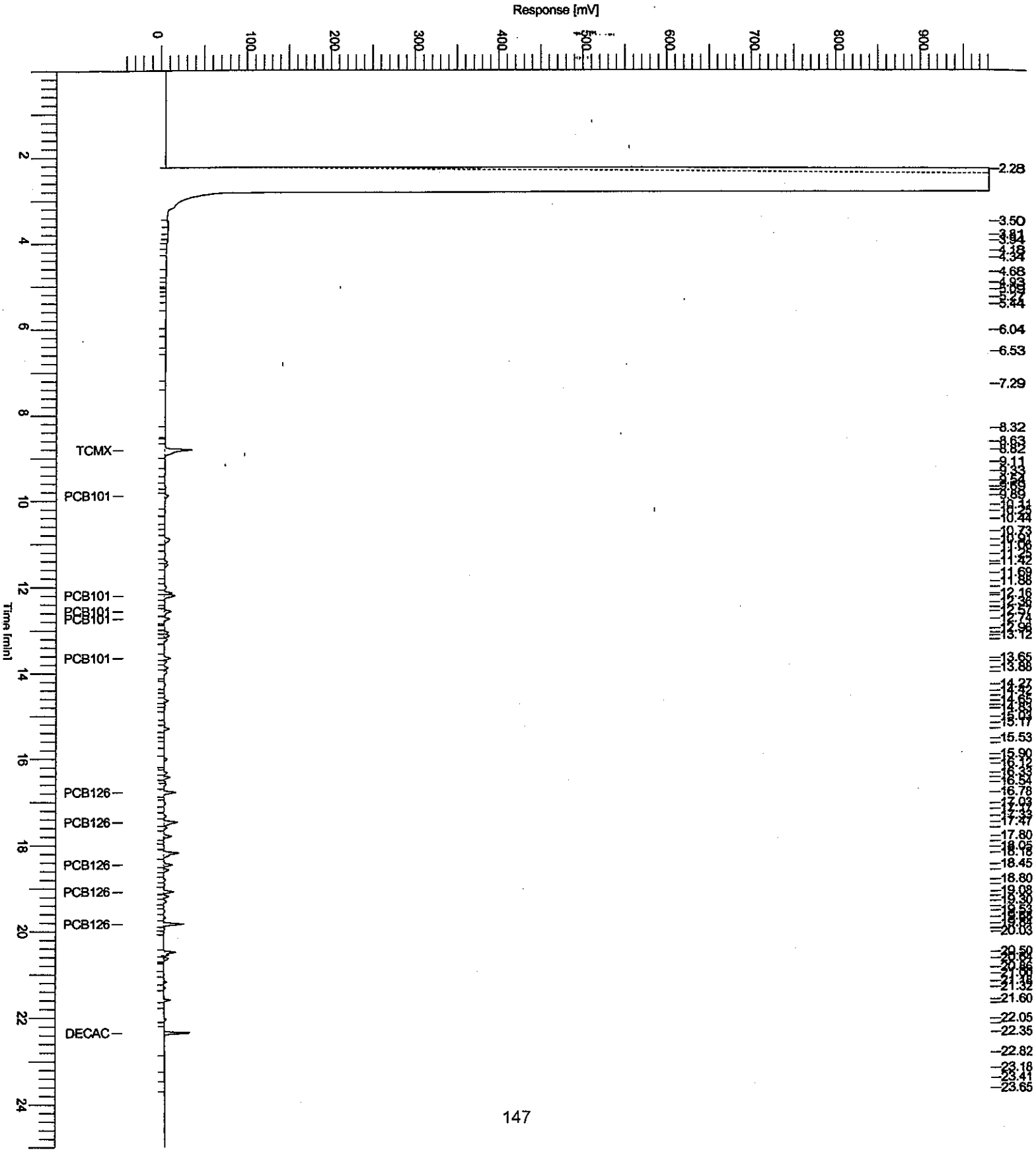
GC22 Rtx-CLPesticides

Sample Name : qc263075,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a086.raw
Date : 9/2/04 9:02:01 AM
Method : Time of Injection: 9/1/04 8:58:04 AM
Start Time : 8.35 min End Time : 22.98 min Low Point : -3.78 mV High Point : 49.65 mV
Plot Offset: -3.78 mV Plot Scale: 53.4 mV



GC22 Rtx-CLPesticides

Sample Name : qc263075,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc22\cha\243a086.raw
Date : 9/2/04 8:52:24 AM
Method : gc22ins Time of Injection: 9/1/04 8:58:04 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -44.36 mV High Point : 980.95 mV
Scale Factor: 1.0 Plot Offset: -44.36 mV Plot Scale: 1025.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263075,94184,msd
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 86

Date : 9/2/04 8:58:07 AM
Data Acquisition Time : 9/1/04 8:58:04 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b086p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.131	164900.79	45.2825	0.671	1	30.39	6.08
Aroclor-1016	12.315	135517.90	263.2886	0.671	1	176.70	35.34
Aroclor-1260	19.930	314597.04	343.3764	0.671	1	230.45	46.09
Decachlorobiphenyl	22.820	127216.50	51.9058	0.671	1	34.84	6.97
		742232.23	703.8533			472.38	94.48

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.057	18812.97	317.1091	0.671	1	212.82	42.56
PCB1016#2	11.631	26774.43	305.3138	0.671	1	204.91	40.98
PCB1016#3	12.315	28823.87	160.8121	0.671	1	107.93	21.59
PCB1016#4	12.574	35387.95	321.8384	0.671	1	216.00	43.20
PCB1016#5	13.736	25718.67	327.6432	0.671	1	219.89	43.98
		135517.90	1432.7165			961.55	192.31

Group Report For : Aroclor-1260

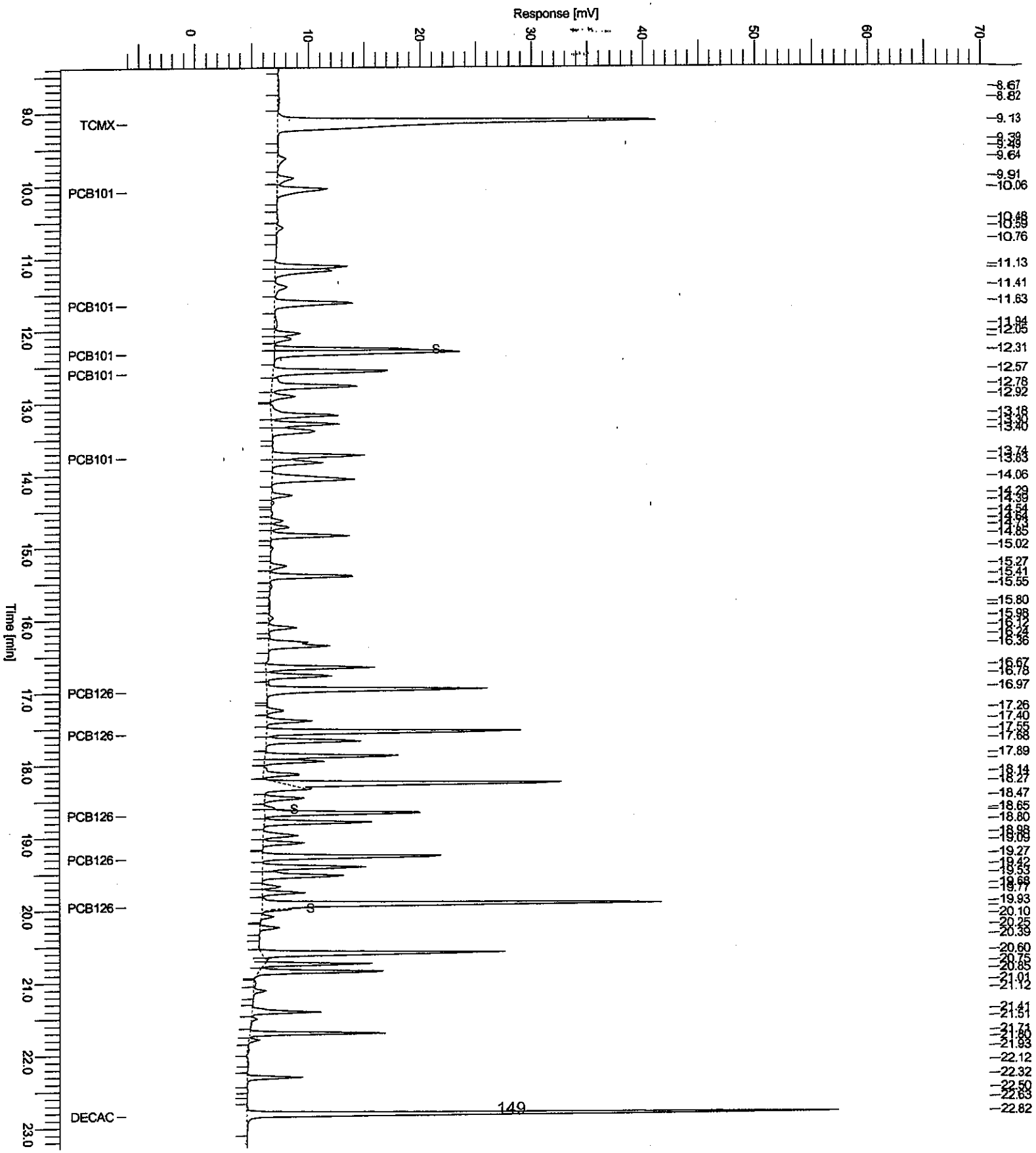
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.968	58651.99	337.8521	0.671	1	226.75	45.35
PCB1260#2	17.553	62883.63	338.6524	0.671	1	227.28	45.46
PCB1260#3	18.677	41048.74	349.6469	0.671	1	234.66	46.93
PCB1260#4	19.272	45978.00	356.2535	0.671	1	239.10	47.82
PCB1260#5	19.930	106034.68	341.5664	0.671	1	229.24	45.85
		314597.04	1723.9713			1157.03	231.41

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b086p.TX0

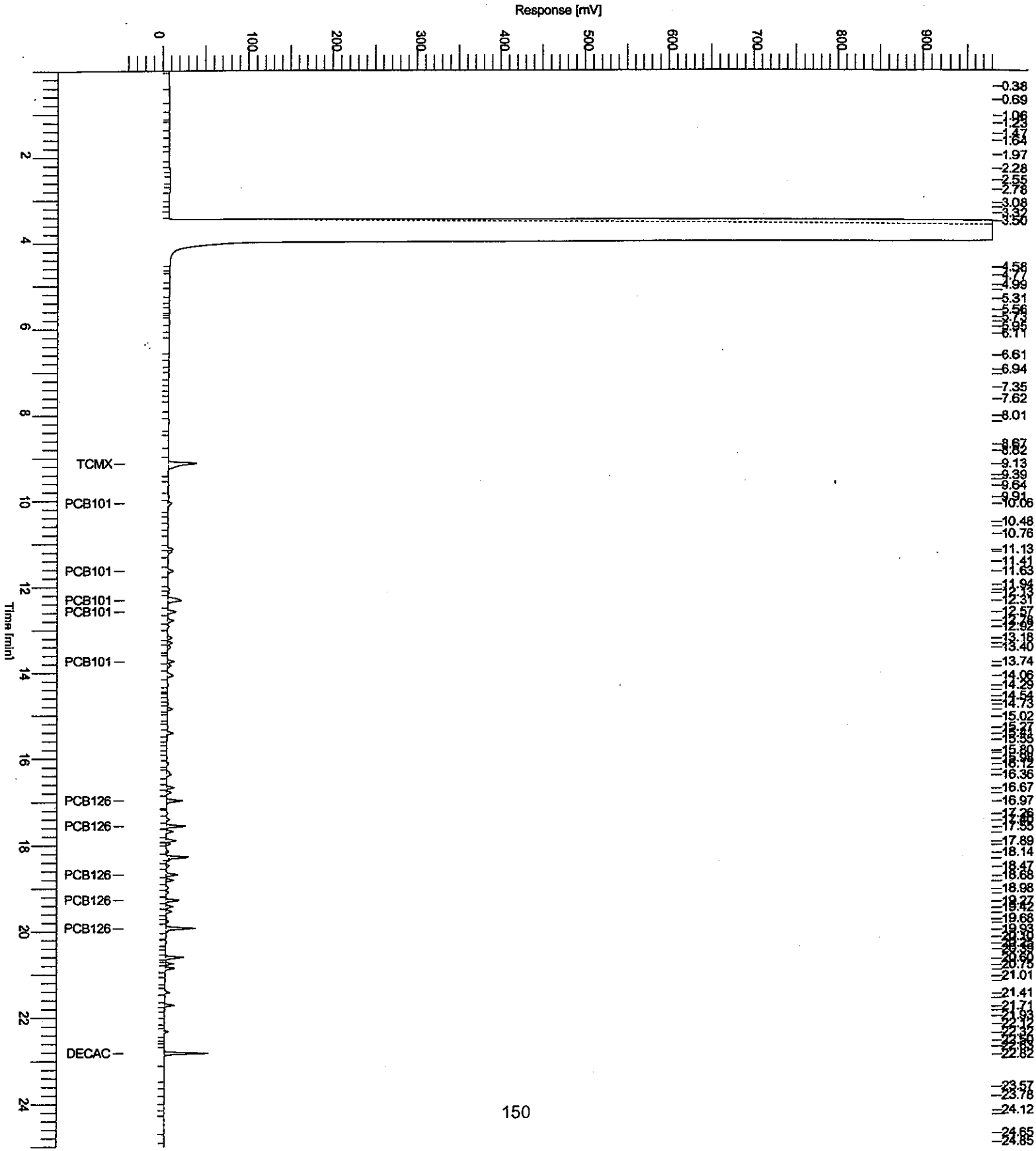
GC22 Rtx-CLPesticides II

Sample Name : qc263075,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b086.raw
Date : 9/2/04 8:58:11 AM
Method : Time of Injection: 9/1/04 8:58:04 AM
Start Time : 8.38 min End Time : 23.28 min Low Point : -6.06 mV High Point : 70.59 mV
Plot Offset: -6.06 mV Plot Scale: 76.6 mV



GC22 Rtx-CLPesticides II

Sample Name : qc263075,94184,msd Sample #: 94184 Page 1 of 1
FileName : G:\gc22\chb\243b086
Date : 9/2/04 8:52:15 AM
Method : gc22ins Time of Injection: 9/1/04 8:58:04 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -44.04 mV High Point : 980.31 mV
Scale Factor: 1.0 Plot Offset: -44.04 mV Plot Scale: 1024.4 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

Turbochrom Method File G:\gc06\files\1260a243.mth
Printed by : analyst on: 8/31/04 10:48:51 AM
Created by : analyst on: 8/31/04 8:47:29 AM
Edited by : analyst on: 8/31/04 9:37:33 AM
Number of Times Edited : 2
Number of Times Calibrated : 184
Description: gc06

[illegible] 8/31/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 7.604 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	318546.50	93834.97	----------	----------	1
4	50.0000	804240.32	244284.78	----------	----------	1
5	100.0000	1610192.11	482129.79	----------	----------	1
6	150.0000	2375328.54	683759.40	----------	----------	1
7	200.0000	3069246.05	913392.32	----------	----------	1
1	2.0000	35036.60	10246.43	----------	----------	1
2	5.0000	94248.49	28428.64	----------	----------	1

Average Calibration Factor = 16523.400387 (%RSD = 7.41)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 8.621 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4714.96	1298.51	----------	----------	1
2	25.0000	10586.56	3333.53	----------	----------	1
3	100.0000	39926.55	10971.66	----------	----------	1
4	250.0000	99643.55	27471.13	----------	----------	1
5	500.0000	196918.95	53156.43	----------	----------	1
6	750.0000	285068.63	75731.29	----------	----------	1
7	1000.0000	365512.42	100151.58	----------	----------	1

Average Calibration Factor = 404.605700 (%RSD = 8.53)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 9.585 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	7726.80	1881.97	----------	----------	1
2	25.0000	21169.88	5148.88	----------	----------	1
3	100.0000	76459.42	17244.92	----------	----------	1
4	250.0000	183734.29	41359.51	----------	----------	1
5	500.0000	352085.91	58535.14	----------	----------	1
6	750.0000	500520.63	107482.08	----------	----------	1
7	1000.0000	643869.88	103743.15	----------	----------	1

Average Calibration Factor = 733.487090 (%RSD = 9.41)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 10.824 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8585.61	2628.27	----------	----------	1
2	25.0000	24091.70	7591.61	----------	----------	1
3	100.0000	82288.91	24694.08	----------	----------	1
4	250.0000	204993.04	61051.28	----------	----------	1
5	500.0000	412172.75	121201.13	----------	----------	1
6	750.0000	601150.77	178606.32	----------	----------	1
7	1000.0000	791495.94	234788.39	----------	----------	1

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Average Calibration Factor = 840.352259 (%RSD = 6.94)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	32000.28	9123.48	----------	----------	1
2	25.0000	85074.28	25286.35	----------	----------	1
3	100.0000	296982.48	83201.92	----------	----------	1
4	250.0000	735704.60	204882.91	----------	----------	1
5	500.0000	1447915.75	382814.04	----------	----------	1
6	750.0000	2081307.71	575406.48	----------	----------	1
7	1000.0000	2722916.04	722241.89	----------	----------	1

Average Calibration Factor = 2987.066624 (%RSD = 8.01)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 11.166 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5873.64	1757.16	----------	----------	1
2	25.0000	15856.51	4955.77	----------	----------	1
3	100.0000	53202.59	16377.04	----------	----------	1
4	250.0000	134410.70	40715.06	----------	----------	1
5	500.0000	264640.72	82669.18	----------	----------	1
6	750.0000	379070.22	117407.63	----------	----------	1
7	1000.0000	502061.96	155040.80	----------	----------	1

Average Calibration Factor = 546.866219 (%RSD = 8.71)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 12.221 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5099.26	1557.56	----------	----------	1
2	25.0000	13369.63	4256.55	----------	----------	1
3	100.0000	45105.00	13914.23	----------	----------	1
4	250.0000	112923.01	34285.93	----------	----------	1
5	500.0000	222097.43	67252.17	----------	----------	1
6	750.0000	315497.46	96179.15	----------	----------	1
7	1000.0000	419975.83	128517.97	----------	----------	1

Average Calibration Factor = 461.755355 (%RSD = 9.53)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 15.271 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	9215.50	3020.04	----------	----------	1
2	25.0000	25024.87	7779.21	----------	----------	1
3	100.0000	79408.68	24743.97	----------	----------	1
4	250.0000	189198.56	58888.17	----------	----------	1
5	500.0000	363777.67	117566.06	----------	----------	1
6	750.0000	498975.99	161484.72	----------	----------	1
7	1000.0000	670475.19	218354.95	----------	----------	1

Average Calibration Factor = 790.965391 (%RSD = 16.05)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 15.950 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	14445.81	3619.98	----------	----------	1
2	25.0000	37862.02	9872.81	----------	----------	1
3	100.0000	122699.51	30880.99	----------	----------	1
4	250.0000	290626.62	72877.46	----------	----------	1
5	500.0000	563303.69	141418.71	----------	----------	1
6	750.0000	773408.01	192827.52	----------	----------	1
7	1000.0000	1047875.29	263261.41	----------	----------	1

Average Calibration Factor = 1222.036632 (%RSD = 15.47)

PCB1260#3

Component Type : Single Peak Component
Retention Time : 16.910 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5973.90	1952.83	----------	----------	1
2	25.0000	18460.29	5699.66	----------	----------	1
3	100.0000	58341.10	17937.56	----------	----------	1
4	250.0000	141694.06	43761.52	----------	----------	1
5	500.0000	275859.99	88022.41	----------	----------	1
6	750.0000	377391.76	121033.46	----------	----------	1
7	1000.0000	518091.53	166600.02	----------	----------	1

Average Calibration Factor = 579.855645 (%RSD = 13.38)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 17.515 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5887.10	1910.46	----------	----------	1
2	25.0000	17676.30	5526.40	----------	----------	1
3	100.0000	59756.71	18243.01	----------	----------	1
4	250.0000	148694.65	45125.21	----------	----------	1
5	500.0000	293662.27	89177.71	----------	----------	1
6	750.0000	407848.14	124301.53	----------	----------	1
7	1000.0000	566678.82	172045.96	----------	----------	1

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Average Calibration Factor = 597.986907 (%RSD = 8.64)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	47562.15	14496.41	----------	----------	1
2	25.0000	137317.03	40859.77	----------	----------	1
3	100.0000	444594.84	128532.65	----------	----------	1
4	250.0000	1079658.98	317390.83	----------	----------	1
5	500.0000	2101749.62	628080.84	----------	----------	1
6	750.0000	2896835.90	869951.88	----------	----------	1
7	1000.0000	3990210.45	1.20e+06	----------	----------	1

Average Calibration Factor = 4438.519755 (%RSD = 12.39)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 18.257 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	12039.84	3993.09	----------	----------	1
2	25.0000	38293.56	11981.70	----------	----------	1
3	100.0000	124388.84	36727.13	----------	----------	1
4	250.0000	309445.10	96738.46	----------	----------	1
5	500.0000	605146.00	191895.95	----------	----------	1
6	750.0000	839212.00	270304.64	----------	----------	1
7	1000.0000	1187089.61	382260.65	----------	----------	1

Average Calibration Factor = 1247.675180 (%RSD = 10.57)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.589 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	234713.22	71916.78	----------	----------	1
4	50.0000	545341.97	173524.73	----------	----------	1
5	100.0000	1004109.48	315582.89	----------	----------	1
1	2.0000	26956.18	8479.04	----------	----------	1
2	5.0000	68538.80	21609.36	----------	----------	1
6	150.0000	1373466.13	439585.24	----------	----------	1
7	200.0000	1964254.58	629125.63	----------	----------	1

Average Calibration Factor = 11263.879545 (%RSD = 15.90)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
318546.50	93834.97	20.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
804240.32	244284.78	50.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1610192.11	482129.79	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2375328.54	683759.40	150.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3069246.05	913392.32	200.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35036.60	10246.43	2.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94248.49	28428.64	5.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Component : PCB1016#1
Level : 1

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4714.96	1298.51	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10586.56	3333.53	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39926.55	10971.66	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
99643.55	27471.13	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
196918.95	53156.43	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
285068.63	75731.29	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
365512.42	100151.58	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7726.80	1881.97	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21169.88	5148.88	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
76459.42	17244.92	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
183734.29	41359.51	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
352085.91	58535.14	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
500520.63	107482.08	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
643869.88	103743.15	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8585.61	2628.27	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24091.70	7591.61	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82288.91	24694.08	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
204993.04	61051.28	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
412172.75	121201.13	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
601150.77	178606.32	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
791495.94	234788.39	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : Aroclor-1016

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32000.28	9123.48	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85074.28	25286.35	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
296982.48	83201.92	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
735704.60	204882.91	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1447915.75	382814.04	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2081307.71	575406.48	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2722916.04	722241.89	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5873.64	1757.16	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15856.51	4955.77	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53202.59	16377.04	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
134410.70	40715.06	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
264640.72	82669.18	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
379070.22	117407.63	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
502061.96	155040.80	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5099.26	1557.56	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13369.63	4256.55	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45105.00	13914.23	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112923.01	34285.93	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
222097.43	67252.17	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
315497.46	96179.15	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
419975.83	128517.97	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1260#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9215.50	3020.04	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25024.87	7779.21	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
79408.68	24743.97	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
189198.56	58888.17	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
363777.67	117566.06	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
498975.99	161484.72	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
670475.19	218354.95	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14445.81	3619.98	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37862.02	9872.81	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
122699.51	30880.99	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290626.62	72877.46	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
563303.69	141418.71	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
773408.01	192827.52	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1047875.29	263261.41	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5973.90	1952.83	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18460.29	5699.66	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58341.10	17937.56	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
141694.06	43761.52	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
275859.99	88022.41	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
377391.76	121033.46	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
518091.53	166600.02	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5887.10	1910.46	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17676.30	5526.40	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59756.71	18243.01	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
148694.65	45125.21	250.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
293662.27	89177.71	500.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
407848.14	124301.53	750.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
566678.82	172045.96	1000.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47562.15	14496.41	10.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137317.03	40859.77	25.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
444594.84	128532.65	100.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1079658.98	317390.83	250.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2101749.62	628080.84	500.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2896835.90	869951.88	750.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3990210.45	1.20252e+006	1000.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : PCB1260#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12039.84	3993.09	10.0000	---------	---------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38293.56	11981.70	25.0000	---------	---------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124388.84	36727.13	100.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
309445.10	96738.46	250.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
605146.00	191895.95	500.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
839212.00	270304.64	750.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1187089.61	382260.65	1000.0000	---------	---------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Component : Decachlorobiphenyl
Level : 3

8/31/04 10:48:51 AM Method: G:\gc06\files\1260a243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234713.22	71916.78	20.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
545341.97	173524.73	50.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1004109.48	315582.89	100.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a013p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26956.18	8479.04	2.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68538.80	21609.36	5.0000	--------	--------	8/31/04	9:36:43 AM	G:\gc06\cha\243a010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1373466.13	439585.24	150.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1964254.58	629125.63	200.0000	--------	--------	8/31/04	9:36:44 AM	G:\gc06\cha\243a015p.rst

Turbochrom Method File G:\gc06\files\1260b243.mth
Printed by : analyst on: 8/31/04 10:48:14 AM
Created by : analyst on: 8/31/04 8:52:26 AM
Edited by : analyst on: 8/31/04 10:30:38 AM
Number of Times Edited : 2
Number of Times Calibrated : 182
Description: gc 06

[illegible] 9/30/02

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 6.340 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	432170.49	123068.62	----------	----------	1
4	50.0000	1061245.31	317460.85	----------	----------	1
5	100.0000	2068710.28	608081.19	----------	----------	1
1	2.0000	47560.95	13872.77	----------	----------	1
2	5.0000	118264.54	36077.87	----------	----------	1
6	150.0000	2979434.98	838467.73	----------	----------	1
7	200.0000	3607993.55	924311.56	----------	----------	1

Average Calibration Factor = 21265.254796 (%RSD = 9.57)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 7.237 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5850.37	1421.04	----------	----------	1
2	25.0000	14128.44	4095.74	----------	----------	1
3	100.0000	50903.83	13028.94	----------	----------	1
4	250.0000	126374.36	32821.93	----------	----------	1
5	500.0000	245070.46	64445.18	----------	----------	1
6	750.0000	347725.03	87735.29	----------	----------	1
7	1000.0000	446321.04	118283.66	----------	----------	1

Average Calibration Factor = 509.257910 (%RSD = 9.91)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 8.716 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8246.96	2271.49	----------	----------	1
2	25.0000	18977.60	5972.18	----------	----------	1
3	100.0000	67718.62	19537.20	----------	----------	1
4	250.0000	161552.62	47364.21	----------	----------	1
5	500.0000	314672.89	66098.02	----------	----------	1
6	750.0000	430692.08	88996.72	----------	----------	1
7	1000.0000	565363.49	118553.20	----------	----------	1

Average Calibration Factor = 668.023147 (%RSD = 14.23)

Aroclor-1016

Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	47003.57	11707.94	----------	----------	1
2	25.0000	124025.39	33253.25	----------	----------	1
3	100.0000	443814.67	108003.90	----------	----------	1
4	250.0000	1068061.58	262666.48	----------	----------	1
5	500.0000	2117680.94	495576.62	----------	----------	1
6	750.0000	2931453.64	690848.63	----------	----------	1
7	1000.0000	3879181.77	924329.82	----------	----------	1

Average Calibration Factor = 4342.130605 (%RSD = 9.11)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 9.376 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18180.00	3825.55	----------	----------	1
2	25.0000	51916.35	11253.55	----------	----------	1
3	100.0000	184980.32	36586.78	----------	----------	1
4	250.0000	443507.45	87185.83	----------	----------	1
5	500.0000	881928.29	174936.48	----------	----------	1
6	750.0000	1226827.10	248162.59	----------	----------	1
7	1000.0000	1639639.94	333633.09	----------	----------	1

Average Calibration Factor = 1793.964758 (%RSD = 8.32)

PCB1016#4

Component Type : Single Peak Component
Retention Time : 9.627 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8315.06	2296.93	----------	----------	1
2	25.0000	22494.36	6791.72	----------	----------	1
3	100.0000	83966.38	22194.14	----------	----------	1
4	250.0000	198660.75	53951.25	----------	----------	1
5	500.0000	397760.42	105834.19	----------	----------	1
6	750.0000	547088.45	148111.04	----------	----------	1
7	1000.0000	723937.21	198034.60	----------	----------	1

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Average Calibration Factor = 802.070915 (%RSD = 7.77)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 10.755 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	6411.18	1892.94	----------	----------	1
2	25.0000	16508.64	5140.07	----------	----------	1
3	100.0000	56245.53	16656.84	----------	----------	1
4	250.0000	137966.41	41343.27	----------	----------	1
5	500.0000	278248.88	84262.76	----------	----------	1
6	750.0000	379120.98	117842.99	----------	----------	1
7	1000.0000	503920.09	155825.27	----------	----------	1

Average Calibration Factor = 568.813874 (%RSD = 10.72)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 13.915 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	12895.07	4208.60	----------	----------	1
2	25.0000	36582.38	11196.82	----------	----------	1
3	100.0000	119140.00	34825.08	----------	----------	1
4	250.0000	272888.38	80512.35	----------	----------	1
5	500.0000	534096.38	157314.24	----------	----------	1
6	750.0000	732197.50	218856.86	----------	----------	1
7	1000.0000	975781.92	287413.31	----------	----------	1

Average Calibration Factor = 1150.856287 (%RSD = 15.46)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 14.501 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	15498.43	4754.05	----------	----------	1
2	25.0000	39910.72	12746.23	----------	----------	1
3	100.0000	123409.06	38191.99	----------	----------	1
4	250.0000	283723.12	88355.16	----------	----------	1
5	500.0000	546944.15	172311.49	----------	----------	1
6	750.0000	743438.51	241873.36	----------	----------	1
7	1000.0000	998229.45	319337.54	----------	----------	1

Average Calibration Factor = 1228.374865 (%RSD = 20.35)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 15.598 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	9723.20	3031.60	----------	----------	1
2	25.0000	22375.89	7481.52	----------	----------	1
3	100.0000	79013.45	24994.71	----------	----------	1
4	250.0000	179802.50	56527.79	----------	----------	1
5	500.0000	346615.02	108500.81	----------	----------	1
6	750.0000	483365.83	152308.25	----------	----------	1
7	1000.0000	655324.40	208768.65	----------	----------	1

Average Calibration Factor = 767.106021 (%RSD = 16.34)

PCB1260#4
Component Type : Single Peak Component
Retention Time : 16.177 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	9292.92	3041.66	----------	----------	1
2	25.0000	23225.60	7707.44	----------	----------	1
3	100.0000	79448.62	25126.99	----------	----------	1
4	250.0000	187270.74	60231.84	----------	----------	1
5	500.0000	366363.94	121004.79	----------	----------	1
6	750.0000	516035.73	169854.21	----------	----------	1
7	1000.0000	711996.34	238796.47	----------	----------	1

Average Calibration Factor = 790.665242 (%RSD = 12.67)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	65306.41	20393.59	----------	----------	1
2	25.0000	171409.73	54580.47	----------	----------	1
3	100.0000	562108.26	168236.45	----------	----------	1
4	250.0000	1306381.78	401477.27	----------	----------	1
5	500.0000	2569051.89	791184.52	----------	----------	1
6	750.0000	3568423.85	1.12e+06	----------	----------	1
7	1000.0000	4885786.42	1.53e+06	----------	----------	1

Average Calibration Factor = 5573.632570 (%RSD = 14.67)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 16.833 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	17896.79	5357.69	----------	----------	1
2	25.0000	49315.13	15448.46	----------	----------	1
3	100.0000	161097.13	45097.67	----------	----------	1
4	250.0000	382697.05	115850.13	----------	----------	1
5	500.0000	775032.40	232053.21	----------	----------	1
6	750.0000	1093386.29	332486.16	----------	----------	1
7	1000.0000	1544454.31	471222.50	----------	----------	1

Average Calibration Factor = 1636.630155 (%RSD = 11.05)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.617 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	238151.56	75081.31	----------	----------	1
4	50.0000	536232.35	181512.02	----------	----------	1
5	100.0000	1009622.95	337711.49	----------	----------	1
1	2.0000	28785.05	9471.99	----------	----------	1
2	5.0000	69214.98	22365.80	----------	----------	1
6	150.0000	1400703.92	468485.36	----------	----------	1
7	200.0000	2003331.33	676052.82	----------	----------	1

Average Calibration Factor = 11474.093928 (%RSD = 17.23)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
432170.49	123068.62	20.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1061245.31	317460.85	50.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2068710.28	608081.19	100.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47560.95	13872.77	2.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118264.54	36077.87	5.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2979434.98	838467.73	150.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3607993.55	924311.56	200.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5850.37	1421.04	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14128.44	4095.74	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50903.83	13028.94	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126374.36	32821.93	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
245070.46	64445.18	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
347725.03	87735.29	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
446321.04	118283.66	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8246.96	2271.49	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18977.60	5972.18	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67718.62	19537.20	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
161552.62	47364.21	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314672.89	66098.02	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
430692.08	88996.72	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
565363.49	118553.20	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47003.57	11707.94	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124025.39	33253.25	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
443814.67	108003.90	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1068061.58	262666.48	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2117680.94	495576.62	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2931453.64	690848.63	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3879181.77	924329.82	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1016#3
Level : 1

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18180.00	3825.55	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51916.35	11253.55	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184980.32	36586.78	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
443507.45	87185.83	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
881928.29	174936.48	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1226827.10	248162.59	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1639639.94	333633.09	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8315.06	2296.93	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22494.36	6791.72	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83966.38	22194.14	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
198660.75	53951.25	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
397760.42	105834.19	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
547088.45	148111.04	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
723937.21	198034.60	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6411.18	1892.94	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16508.64	5140.07	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56245.53	16656.84	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137966.41	41343.27	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
278248.88	84262.76	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
379120.98	117842.99	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
503920.09	155825.27	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1260#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12895.07	4208.60	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36582.38	11196.82	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119140.00	34825.08	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
272888.38	80512.35	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
534096.38	157314.24	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
732197.50	218856.86	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
975781.92	287413.31	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15498.43	4754.05	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39910.72	12746.23	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123409.06	38191.99	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
283723.12	88355.16	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
546944.15	172311.49	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
743438.51	241873.36	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
998229.45	319337.54	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9723.20	3031.60	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22375.89	7481.52	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
79013.45	24994.71	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
179802.50	56527.79	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
346615.02	108500.81	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
483365.83	152308.25	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
655324.40	208768.65	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1260#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9292.92	3041.66	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23225.60	7707.44	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
79448.62	25126.99	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
187270.74	60231.84	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
366363.94	121004.79	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
516035.73	169854.21	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
711996.34	238796.47	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65306.41	20393.59	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171409.73	54580.47	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
562108.26	168236.45	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1306381.78	401477.27	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2569051.89	791184.52	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3568423.85	1.11538e+006	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4885786.42	1.52554e+006	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : PCB1260#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17896.79	5357.69	10.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49315.13	15448.46	25.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
161097.13	45097.67	100.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
382697.05	115850.13	250.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

8/31/04 10:48:14 AM Method: G:\gc06\files\1260b243.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
775032.40	232053.21	500.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1093386.29	332486.16	750.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1544454.31	471222.50	1000.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
238151.56	75081.31	20.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
536232.35	181512.02	50.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1009622.95	337711.49	100.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b013p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28785.05	9471.99	2.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69214.98	22365.80	5.0000	--------	--------	8/31/04	10:30:02 AM	G:\gc06\chb\243b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1400703.92	468485.36	150.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2003331.33	676052.82	200.0000	--------	--------	8/31/04	10:30:03 AM	G:\gc06\chb\243b015p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: [illegible] 9/3/04
Calnum: 204350924001 Name: Type: (normal) Date: 30-AUG-2004 16:44 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	243_009	204350924009	pcb10_2	30-AUG-2004 16:44	04WS0970
2	243_010	204350924010	pcb25_5	30-AUG-2004 18:32	04WS0960
3	243_011	204350924011	pcb100_20	30-AUG-2004 19:05	04WS1424
4	243_012	204350924012	pcb250_50	30-AUG-2004 19:38	04WS0962
5	243_013	204350924013	pcb500_100	30-AUG-2004 20:11	04WS1522
6	243_014	204350924014	pcb750_150	30-AUG-2004 20:44	04WS0964
7	243_015	204350924015	pcb1K_200	30-AUG-2004 21:18	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	471.50	423.46	399.27	398.57	393.84	380.09	365.51	AVRG	R		0.002472		pg	404.61	9	.99	20	
Aroclor-1016 Peak # 2	A	772.68	846.80	764.59	734.94	704.17	667.36	643.87	AVRG	R		0.001363		pg	733.49	9	.99	20	
Aroclor-1016 Peak # 3	A	858.56	963.67	822.89	819.97	824.35	801.53	791.50	AVRG	R		0.001190		pg	840.35	7	.99	20	
Aroclor-1016 Peak # 4	A	587.36	634.26	532.03	537.64	529.28	505.43	502.06	AVRG	R		0.001829		pg	546.87	9	.99	20	
Aroclor-1016 Peak # 5	A	509.93	534.79	451.05	451.69	444.19	420.66	419.98	AVRG	R		0.002166		pg	461.76	10	.99	20	
Aroclor-1260 Peak # 1	A	921.55	1001.0	794.09	756.79	727.56	665.30	670.48	AVRG	R		0.001264		pg	790.97	16	.99	20	
Aroclor-1260 Peak # 2	A	1444.6	1514.5	1227.0	1162.5	1126.6	1031.2	1047.9	AVRG	R		8.183E-4		pg	1222.0	15	.99	20	
Aroclor-1260 Peak # 3	A	597.39	738.41	583.41	566.78	551.72	503.19	518.09	AVRG	R		0.001725		pg	579.86	13	.99	20	
Aroclor-1260 Peak # 4	A	588.71	707.05	597.57	594.78	587.32	543.80	566.68	AVRG	R		0.001672		pg	597.99	9	.99	20	
Aroclor-1260 Peak # 5	A	1204.0	1531.7	1243.9	1237.8	1210.3	1118.9	1187.1	AVRG	R		8.015E-4		pg	1247.7	11	.99	20	
TCMX	A	17518	18850	15927	16085	16102	15836	15346	AVRG	R		6.052E-5		pg	16523	7	.99	20	
Decachlorobiphenyl	A	13478	13708	11736	10907	10041	9156.4	9821.3	AVRG	R		8.878E-5		pg	11264	16	.99	20	
Aroclor-1016 Peak # 1	B	585.04	565.14	509.04	505.50	490.14	463.63	446.32	AVRG	R		0.001964		pg	509.26	10	.99	20	
Aroclor-1016 Peak # 2	B	824.70	759.10	677.19	646.21	629.35	574.26	565.36	AVRG	R		0.001497		pg	668.02	14	.99	20	
Aroclor-1016 Peak # 3	B	1818.0	2076.7	1849.8	1774.0	1763.9	1635.8	1639.6	AVRG	R		5.574E-4		pg	1794.0	8	.99	20	
Aroclor-1016 Peak # 4	B	831.51	899.77	839.66	794.64	795.52	729.45	723.94	AVRG	R		0.001247		pg	802.07	8	.99	20	
Aroclor-1016 Peak # 5	B	641.12	660.35	562.46	551.87	556.50	505.49	503.92	AVRG	R		0.001758		pg	568.81	11	.99	20	
Aroclor-1260 Peak # 1	B	1289.5	1463.3	1191.4	1091.6	1068.2	976.26	975.78	AVRG	R		8.689E-4		pg	1150.9	15	.99	20	
Aroclor-1260 Peak # 2	B	1549.8	1596.4	1234.1	1134.9	1093.9	991.25	998.23	AVRG	R		8.141E-4		pg	1228.4	20	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By:
Calnum: 204350924001 Name: Type: (normal) Date: 30-AUG-2004 16:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	972.32	895.04	790.13	719.21	693.23	644.49	655.32	AVRG	R		0.001304		pg	767.11	16	.99	20	
Aroclor-1260 Peak # 4	B	929.29	929.02	794.49	749.08	732.73	688.05	712.00	AVRG	R		0.001265		pg	790.67	13	.99	20	
Aroclor-1260 Peak # 5	B	1789.7	1972.6	1611.0	1530.8	1550.1	1457.8	1544.5	AVRG	R		6.110E-4		pg	1636.6	11	.99	20	
TCMX	B	23780	23653	21609	21225	20687	19863	18040	AVRG	R		4.703E-5		pg	21265	10	.99	20	
Decachlorobiphenyl	B	14393	13843	11908	10725	10096	9338.0	10017	AVRG	R		8.715E-5		pg	11474	17	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0970,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 8/31/04 9:13:39 AM
Data Acquisition Time : 8/30/04 4:44:32 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a009p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.602	35036.60	3.26	1.0000	1	3.26	0.65
Aroclor-1016	10.820	32000.28	16.91	1.0000	1	16.91	3.38
Aroclor-1260	18.256	47562.15	17.15	1.0000	1	17.15	3.43
Decachlorobiphenyl	21.588	26956.18	3.11	1.0000	1	3.11	0.62
		141555.20	40.43			40.43	8.09

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.619	4714.96	18.61	1.0000	1	18.61	3.72
PCB1016#2	9.585	7726.80	16.33	1.0000	1	16.33	3.27
PCB1016#3	10.820	8585.61	16.11	1.0000	1	16.11	3.22
PCB1016#4	11.164	5873.64	16.83	1.0000	1	16.83	3.37
PCB1016#5	12.218	5099.26	17.96	1.0000	1	17.96	3.59
		32000.28	85.83			85.83	17.17

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.270	9215.50	19.58	1.0000	1	19.58	3.92
PCB1260#2	15.947	14445.81	19.72	1.0000	1	19.72	3.94
PCB1260#3	16.908	5973.90	17.42	1.0000	1	17.42	3.48
PCB1260#4	17.513	5887.10	15.80	1.0000	1	15.80	3.16
PCB1260#5	18.256	12039.84	14.10	1.0000	1	14.10	2.82
		47562.15	86.62			86.62	17.32

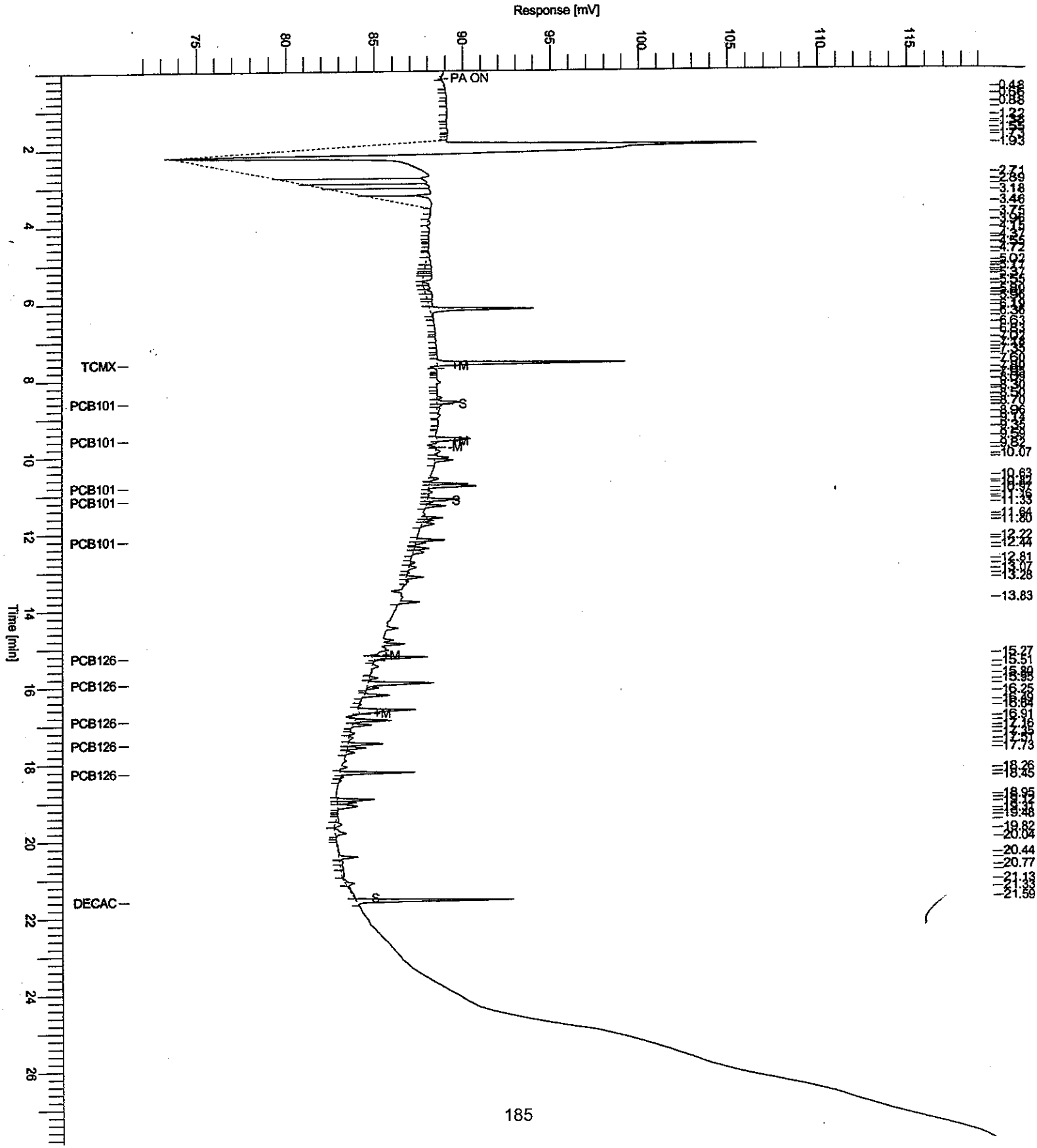
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\243a009p.TX0

JM 8/31/04

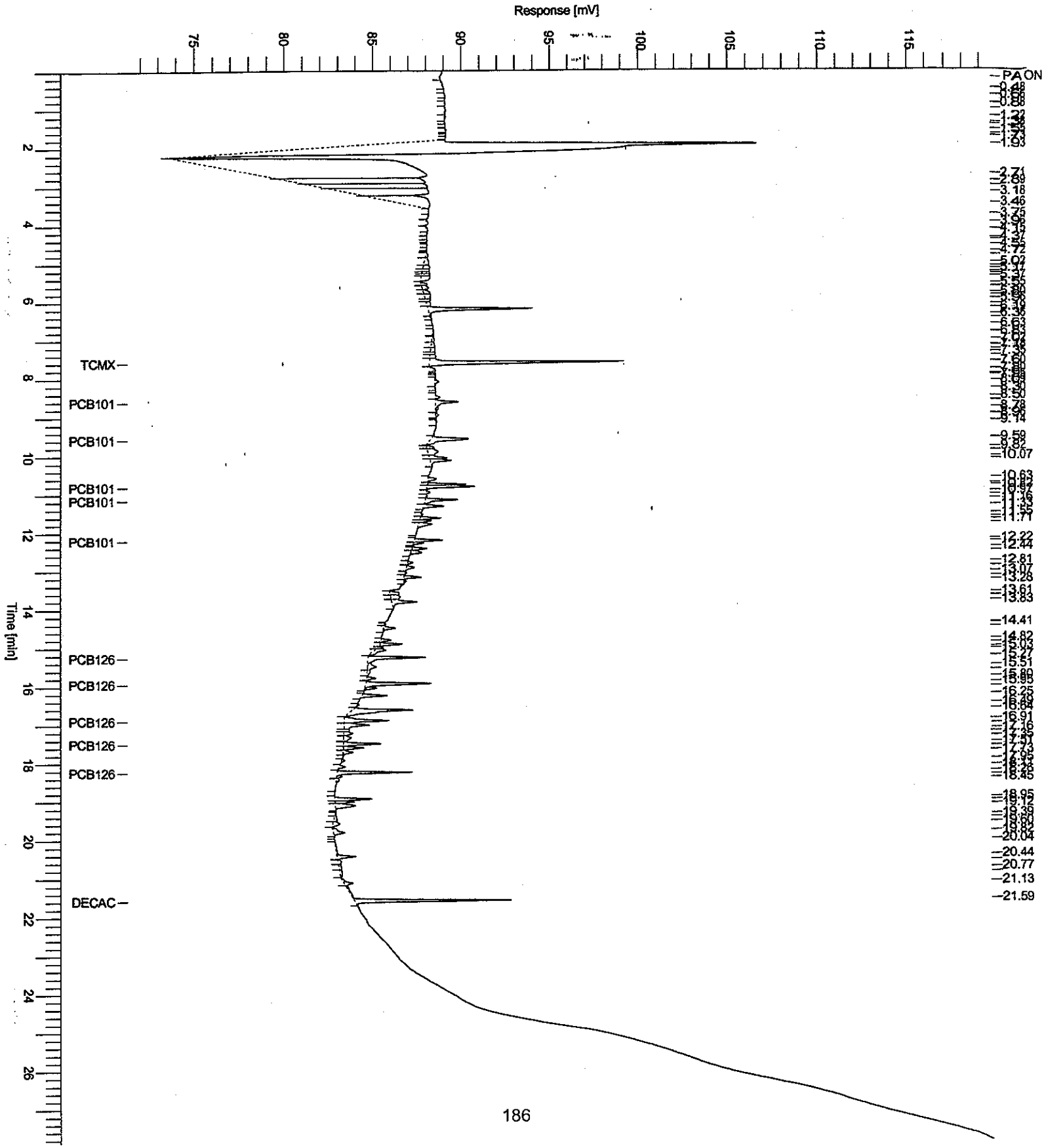
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc06\cha\243a009.raw
Date : 8/31/04 9:13:47 AM
Method :
Time of Injection: 8/30/04 4:44:32 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 71.13 mV High Point : 119.65 mV
Plot Offset: 71.13 mV Plot Scale: 48.5 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc06\cha\243a009.raw
Date : 8/31/04 9:02:03 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 4:44:32 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 71.25 mV High Point : 119.65 mV
Scale Factor: 1.0 Plot Offset: 71.25 mV Plot Scale: 48.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0970,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 8/31/04 9:56:23 AM
Data Acquisition Time : 8/30/04 4:44:32 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b009p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.337	47560.95	3.71	1.0000	1	3.71	0.74
Aroclor-1016	9.369	47003.57	17.57	1.0000	1	17.57	3.51
Aroclor-1260	16.832	65306.41	22.37	1.0000	1	22.37	4.47
Decachlorobiphenyl	20.615	28785.05	4.05	1.0000	1	4.05	0.81
		188655.97	47.69			47.69	9.54

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.238	5850.37	19.00	1.0000	1	19.00	3.80
PCB1016#2	8.713	8246.96	19.69	1.0000	1	19.69	3.94
PCB1016#3	9.369	18180.00	16.50	1.0000	1	16.50	3.30
PCB1016#4	9.626	8315.06	16.60	1.0000	1	16.60	3.32
PCB1016#5	10.752	6411.18	18.50	1.0000	1	18.50	3.70
		47003.57	90.29			90.29	18.06

Group Report For : Aroclor-1260

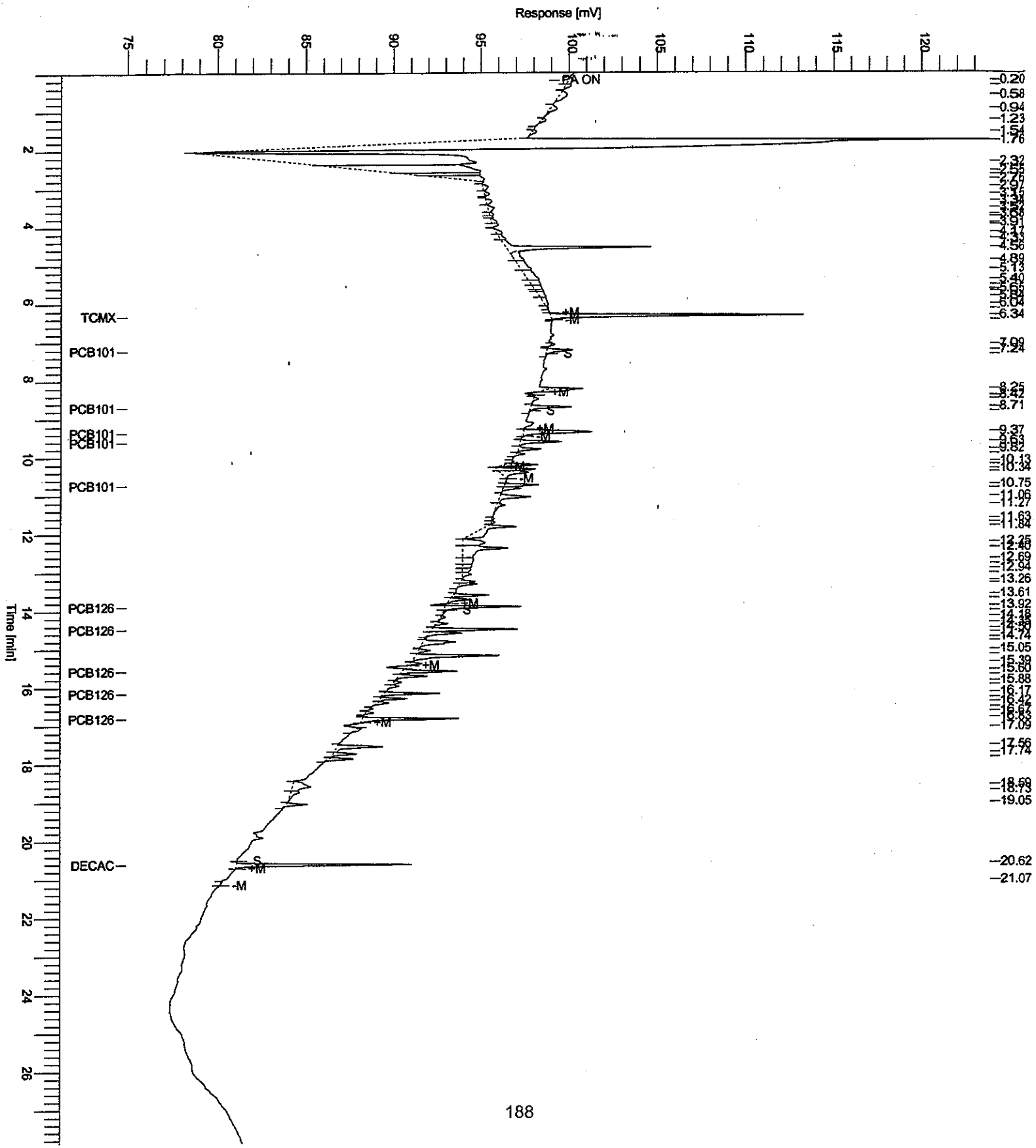
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.918	12895.07	20.76	1.0000	1	20.76	4.15
PCB1260#2	14.503	15498.43	24.31	1.0000	1	24.31	4.86
PCB1260#3	15.597	9723.20	24.43	1.0000	1	24.43	4.89
PCB1260#4	16.174	9292.92	22.87	1.0000	1	22.87	4.57
PCB1260#5	16.832	17896.79	20.88	1.0000	1	20.88	4.18
		65306.41	113.26			113.26	22.65

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\243b009p.TX0

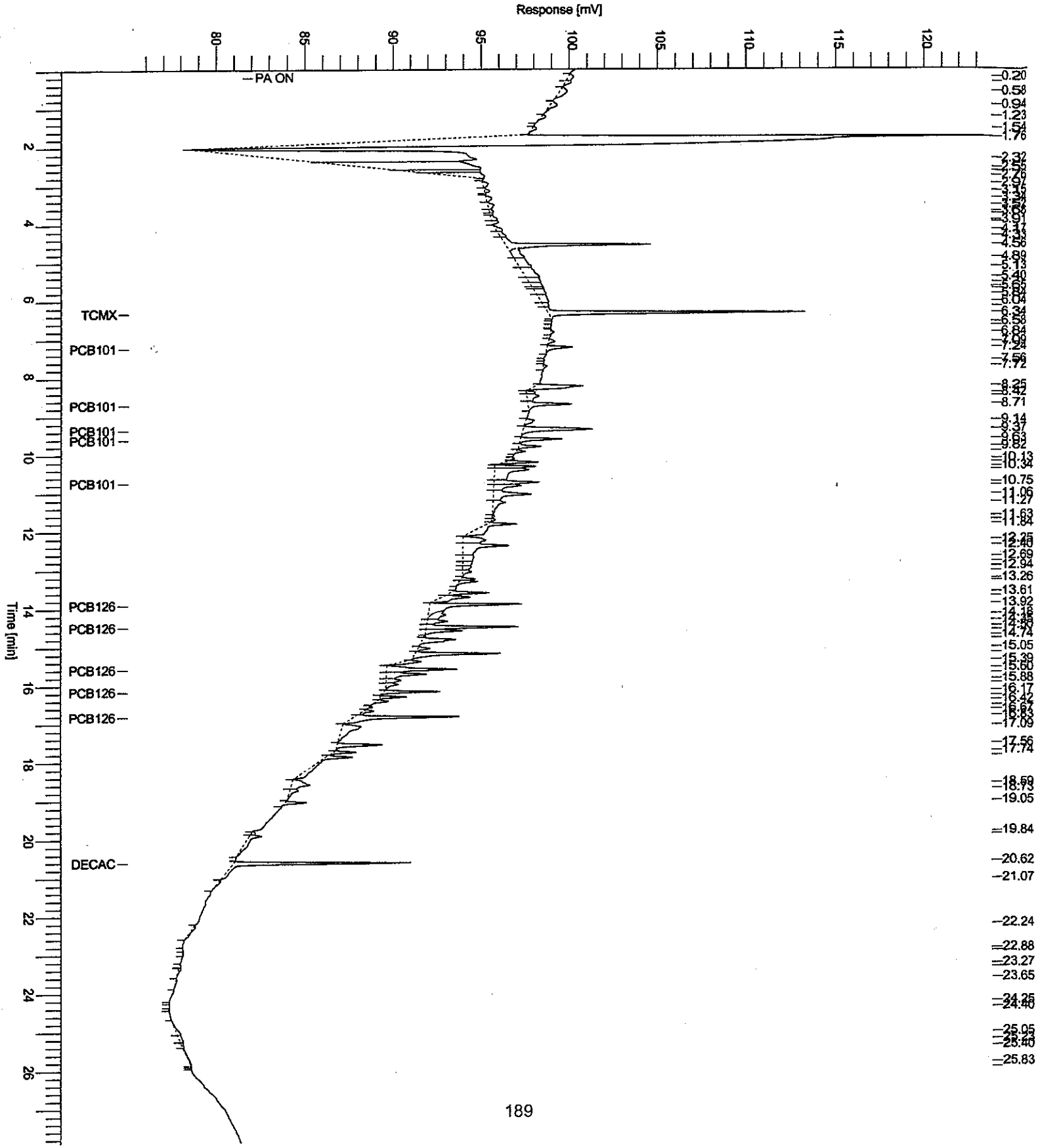
GC 06 Rtx-5

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc06\chb\243b009.raw
Date : 8/31/04 9:56:32 AM
Method :
Time of Injection: 8/30/04 4:44:32 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 74.95 mV High Point : 123.86 mV
Plot Offset: 74.95 mV Plot Scale: 48.9 mV



GC 06 Rtx-5

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc06\chb\243b009
Date : 8/31/04 9:02:55 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 4:44:32 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 75.07 mV High Point : 123.86 mV
Scale Factor: 1.0 Plot Offset: 75.07 mV Plot Scale: 48.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0960,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/10
Sample Amount : 1.000000
Cycle : 10

Date : 8/31/04 9:29:37 AM
Data Acquisition Time : 8/30/04 6:32:07 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a010p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.625	94248.49	8.76	1.0000	1	8.76	1.75
Aroclor-1016	10.839	85074.28	44.95	1.0000	1	44.95	8.99
Aroclor-1260	18.271	137317.03	49.53	1.0000	1	49.53	9.91
Decachlorobiphenyl	21.600	68538.80	7.91	1.0000	1	7.91	1.58
		385178.60	111.15			111.15	22.23

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.640	10586.56	41.78	1.0000	1	41.78	8.36
PCB1016#2	9.605	21169.88	44.74	1.0000	1	44.74	8.95
PCB1016#3	10.839	24091.70	45.22	1.0000	1	45.22	9.04
PCB1016#4	11.185	15856.51	45.42	1.0000	1	45.42	9.08
PCB1016#5	12.239	13369.63	47.08	1.0000	1	47.08	9.42
		85074.28	224.24			224.24	44.85

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.286	25024.87	53.17	1.0000	1	53.17	10.63
PCB1260#2	15.963	37862.02	51.68	1.0000	1	51.68	10.34
PCB1260#3	16.923	18460.29	53.84	1.0000	1	53.84	10.77
PCB1260#4	17.530	17676.30	47.45	1.0000	1	47.45	9.49
PCB1260#5	18.271	38293.56	44.85	1.0000	1	44.85	8.97
		137317.03	250.98			250.98	50.20

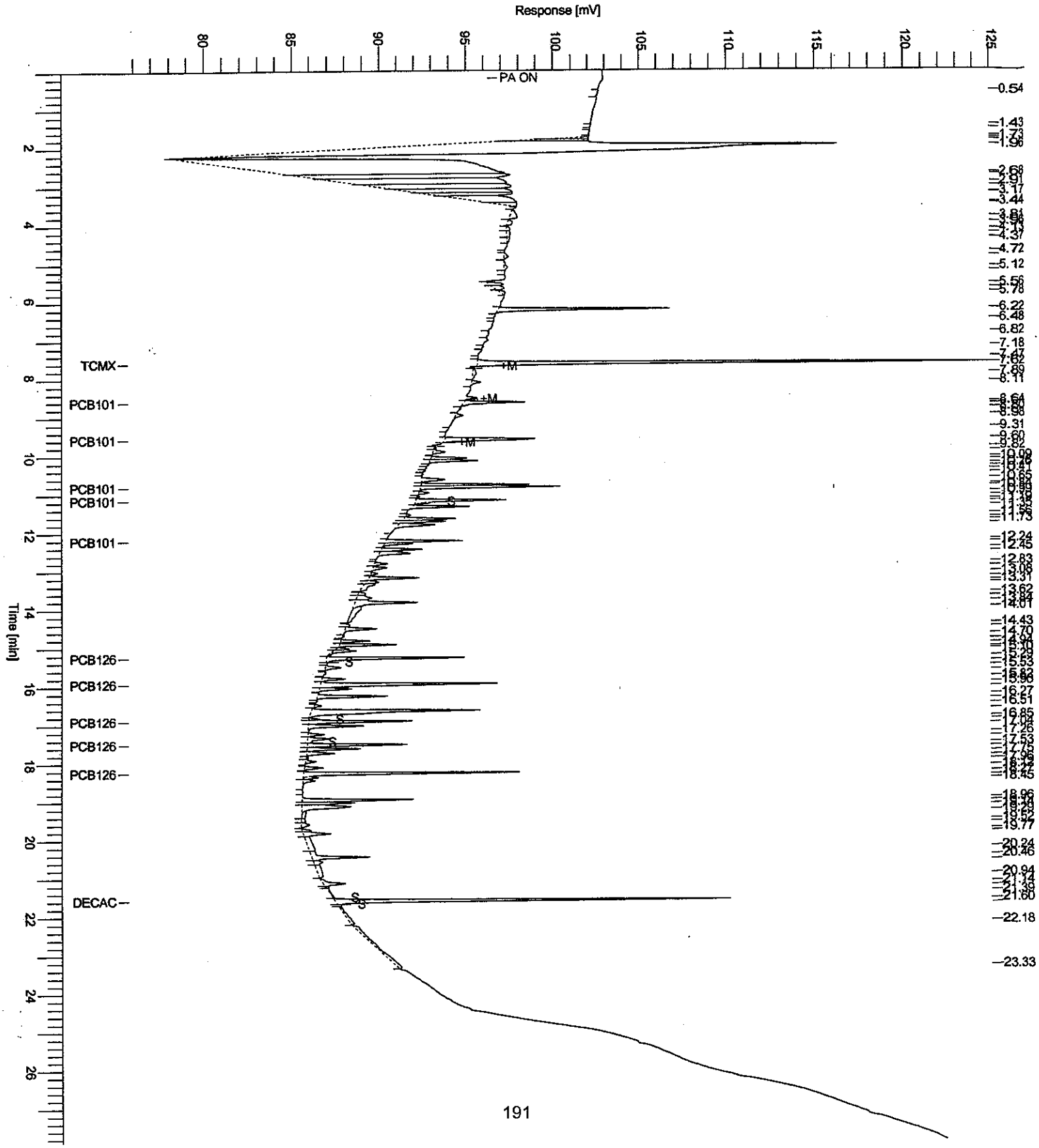
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\243a010p.TX0

JM 8/31/04

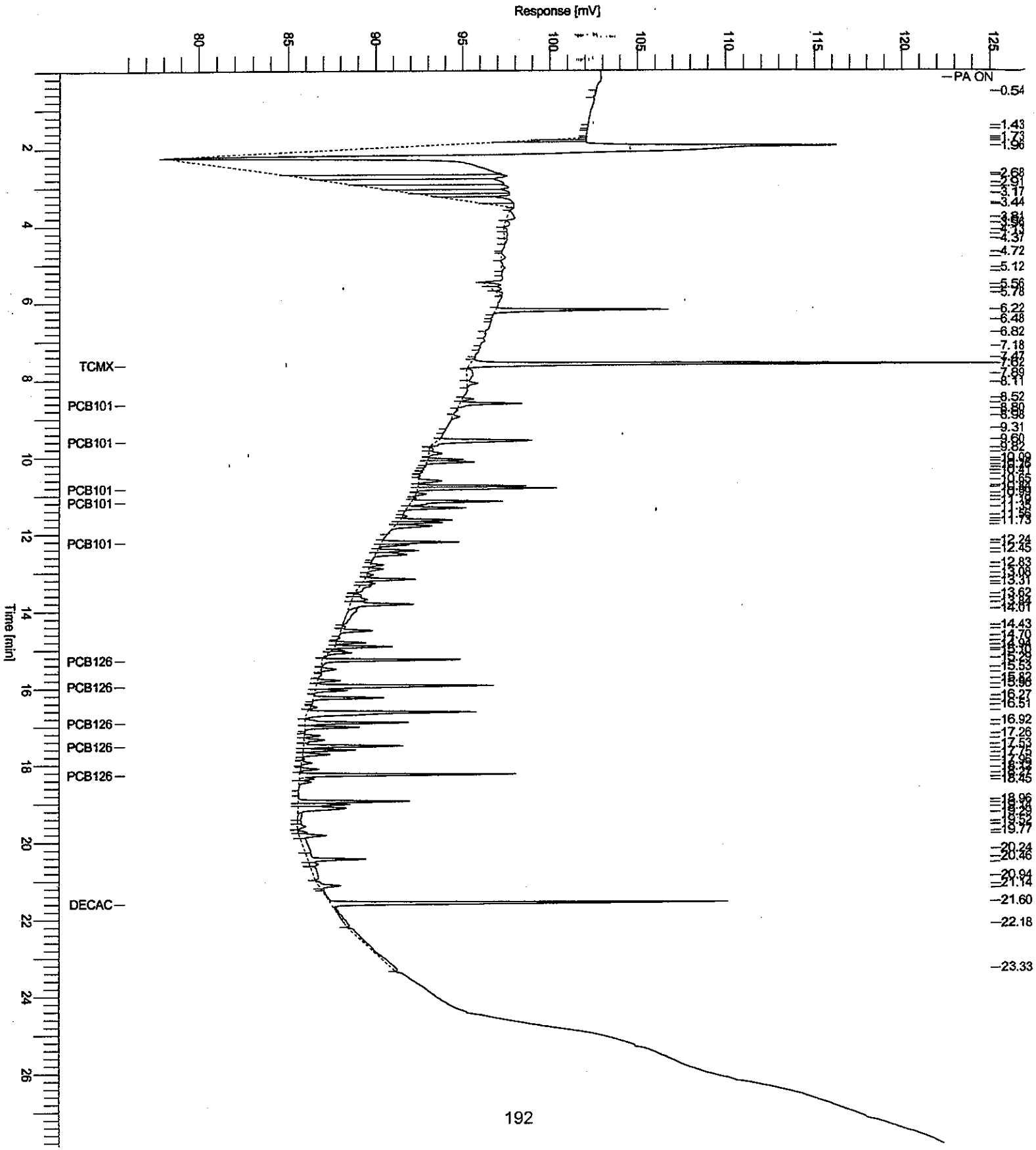
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc06\cha\243a010.raw
Date : 8/31/04 9:20:58 AM
Method :
Time of Injection: 8/30/04 6:32:07 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 75.71 mV High Point : 125.02 mV
Plot Offset: 75.71 mV Plot Scale: 49.3 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc06\cha\243a010.raw
Date : 8/31/04 9:02:10 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 6:32:07 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 75.83 mV High Point : 125.02 mV
Scale Factor: 1.0 Plot Offset: 75.83 mV Plot Scale: 49.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0960,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/10
Sample Amount : 1.000000
Cycle : 10

Date : 8/31/04 10:01:11 AM
Data Acquisition Time : 8/30/04 6:32:07 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b010p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.373	118264.54	9.22	1.0000	1	9.22	1.84
Aroclor-1016	9.398	124025.39	46.35	1.0000	1	46.35	9.27
Aroclor-1260	16.854	171409.73	58.70	1.0000	1	58.70	11.74
Decachlorobiphenyl	20.632	69214.98	9.74	1.0000	1	9.74	1.95
		482914.64	124.01			124.01	24.80

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.269	14128.44	45.88	1.0000	1	45.88	9.18
PCB1016#2	8.747	18977.60	45.32	1.0000	1	45.32	9.06
PCB1016#3	9.398	51916.35	47.13	1.0000	1	47.13	9.43
PCB1016#4	9.656	22494.36	44.90	1.0000	1	44.90	8.98
PCB1016#5	10.784	16508.64	47.63	1.0000	1	47.63	9.53
		124025.39	230.86			230.86	46.17

Group Report For : Aroclor-1260

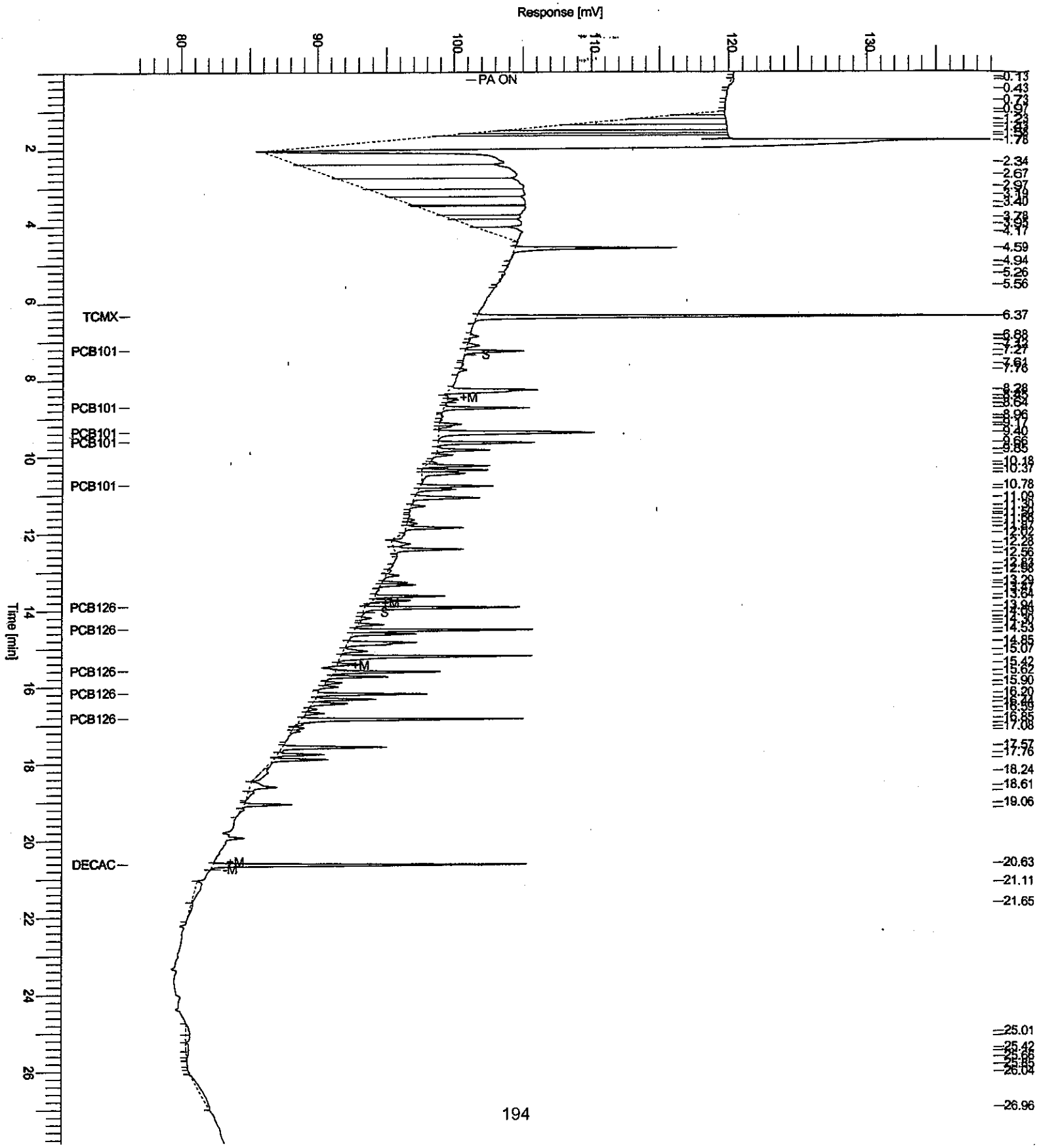
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.940	36582.38	58.90	1.0000	1	58.90	11.78
PCB1260#2	14.526	39910.72	62.60	1.0000	1	62.60	12.52
PCB1260#3	15.618	22375.89	56.22	1.0000	1	56.22	11.24
PCB1260#4	16.197	23225.60	57.16	1.0000	1	57.16	11.43
PCB1260#5	16.854	49315.13	57.55	1.0000	1	57.55	11.51
		171409.73	292.44			292.44	58.49

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\243b010p.TX0

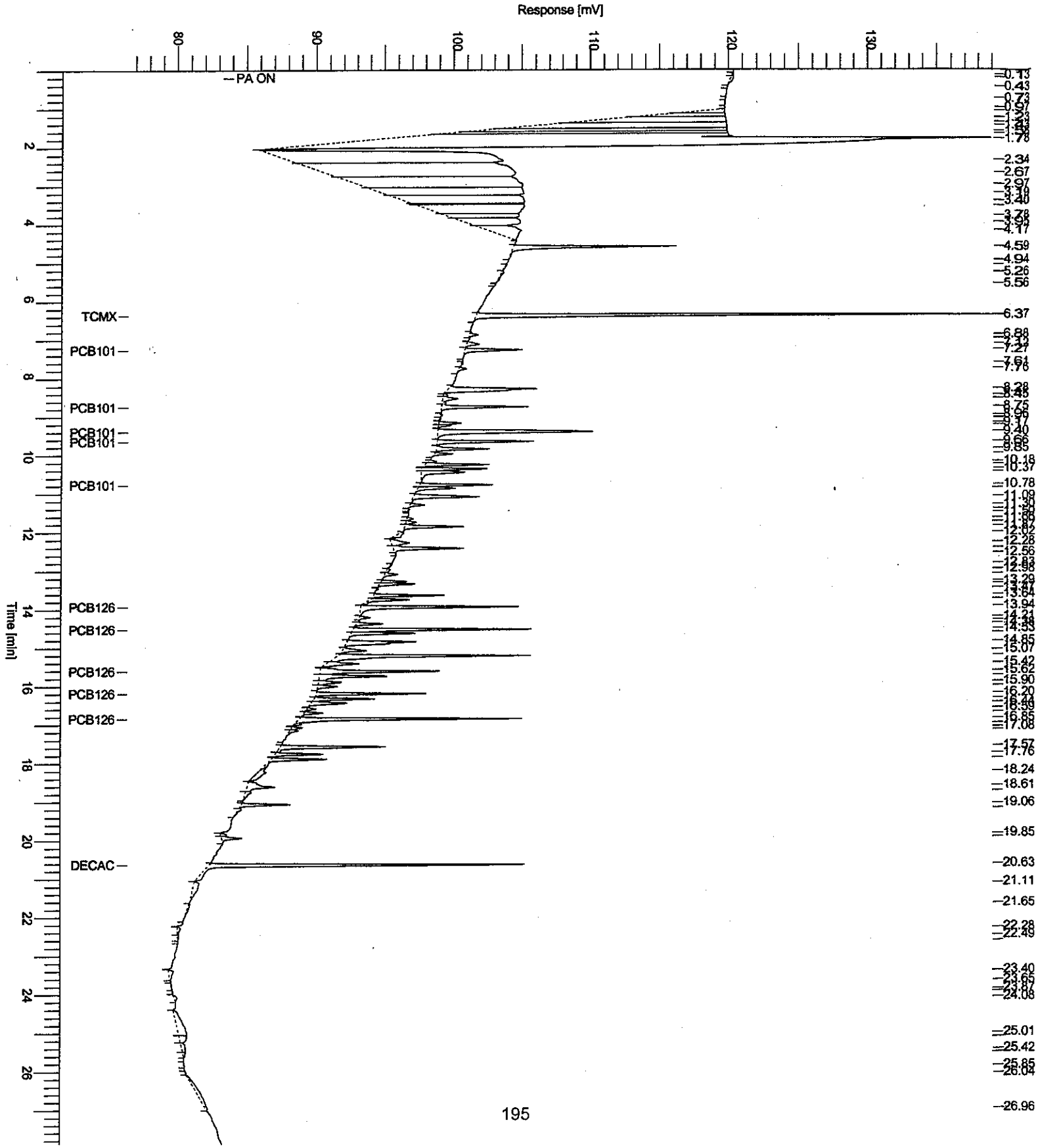
GC 06 Rtx-5

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc06\chb\243b010.raw
Date : 8/31/04 10:01:19 AM
Method :
Time of Injection: 8/30/04 6:32:07 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 76.29 mV High Point : 139.18 mV
Plot Offset: 76.29 mV Plot Scale: 62.9 mV



GC 06 Rtx-5

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc06\chb\243b010
Date : 8/31/04 9:03:02 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 6:32:07 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 76.44 mV High Point : 139.18 mV
Scale Factor: 1.0 Plot Offset: 76.44 mV Plot Scale: 62.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1424,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 8/31/04 9:24:36 AM
Data Acquisition Time : 8/30/04 7:05:20 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a011p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	318546.50	29.61	1.0000	1	29.61	5.92
Aroclor-1016	10.823	296982.48	156.93	1.0000	1	156.93	31.39
Aroclor-1260	18.262	444594.84	160.35	1.0000	1	160.35	32.07
Decachlorobiphenyl	21.590	234713.22	27.08	1.0000	1	27.08	5.42
		1294837.04	373.97			373.97	74.79

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.623	39926.55	157.56	1.0000	1	157.56	31.51
PCB1016#2	9.588	76459.42	161.58	1.0000	1	161.58	32.32
PCB1016#3	10.823	82288.91	154.44	1.0000	1	154.44	30.89
PCB1016#4	11.170	53202.59	152.41	1.0000	1	152.41	30.48
PCB1016#5	12.224	45105.00	158.85	1.0000	1	158.85	31.77
		296982.48	784.84			784.84	156.97

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.271	79408.68	168.72	1.0000	1	168.72	33.74
PCB1260#2	15.949	122699.51	167.47	1.0000	1	167.47	33.49
PCB1260#3	16.909	58341.10	170.15	1.0000	1	170.15	34.03
PCB1260#4	17.517	59756.71	160.41	1.0000	1	160.41	32.08
PCB1260#5	18.262	124388.84	145.67	1.0000	1	145.67	29.13
		444594.84	812.43			812.43	162.49

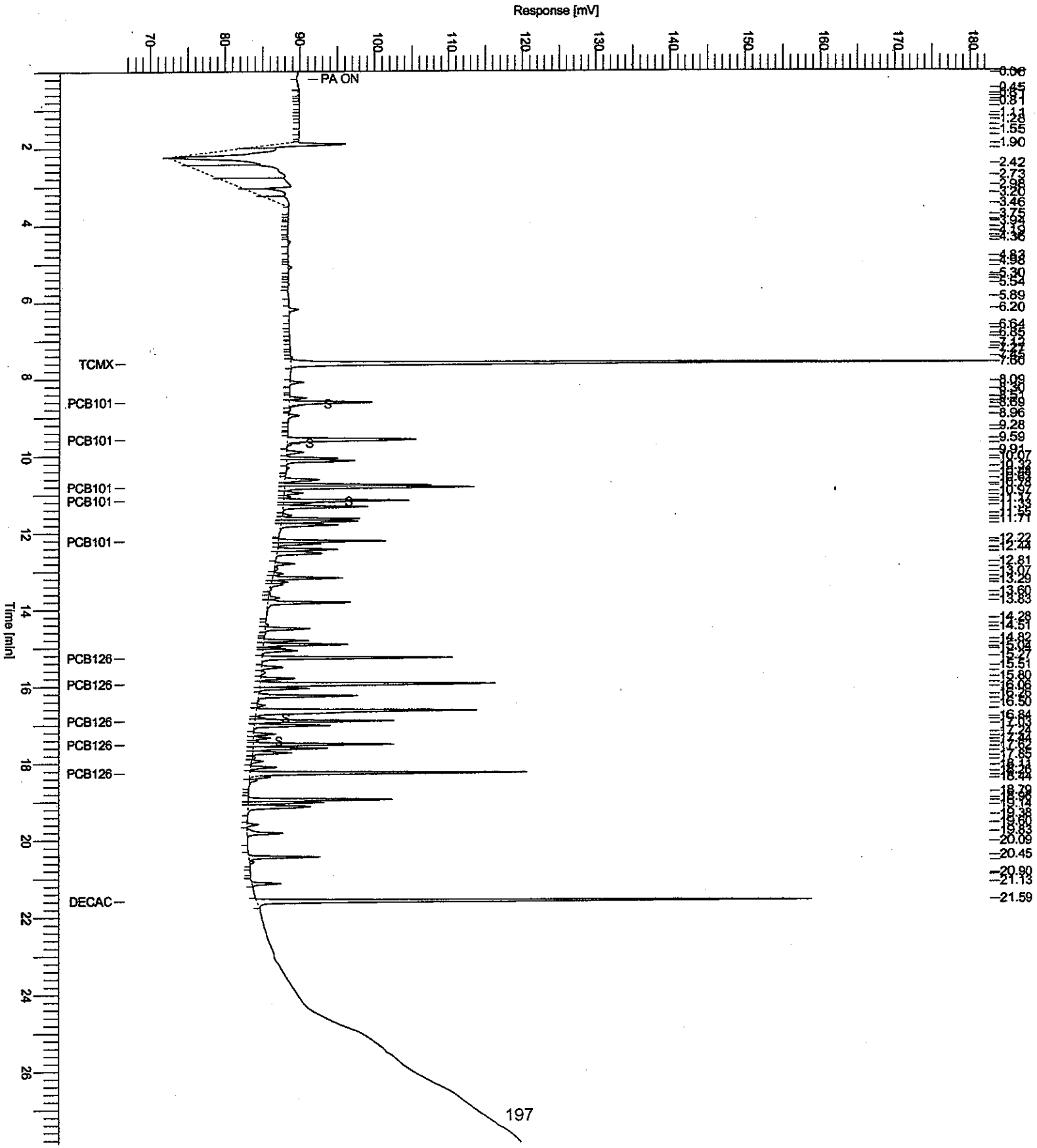
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\243a011p.TX0

JM 8/31/04

GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1424,pcb100_20 Sample #: level 3 Page 1 of 1
FileName : G:\gc06\cha\243a011.raw
Date : 8/31/04 9:24:44 AM
Method : Time of Injection: 8/30/04 7:05:20 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 66.64 mV High Point : 182.65 mV
Plot Offset: 66.64 mV Plot Scale: 116.0 mV



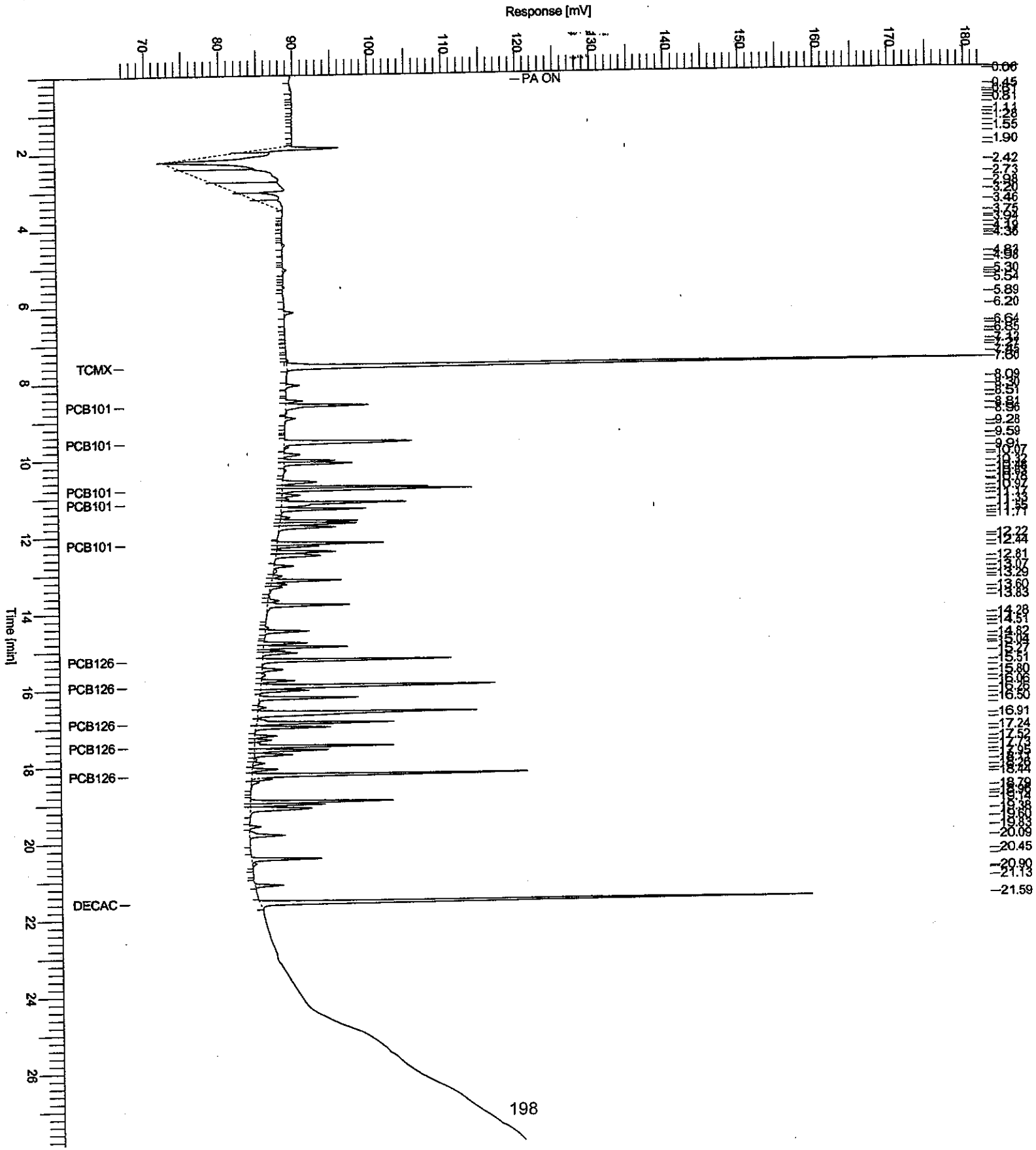
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1424,pcb100_20
FileName : G:\gc06\cha\243a011.raw
Date : 8/31/04 9:02:18 AM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: level 3

Page 1 of 1

Time of Injection: 8/30/04 7:05:20 PM
End Time : 27.88 min
Low Point : 66.93 mV
High Point : 182.65 mV
Plot Offset: 66.93 mV
Plot Scale: 115.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1424,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 8/31/04 10:05:56 AM
Data Acquisition Time : 8/30/04 7:05:20 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b011p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	432170.49	33.71	1.0000	1	33.71	6.74
Aroclor-1016	9.370	443814.67	165.86	1.0000	1	165.86	33.17
Aroclor-1260	16.836	562108.26	192.51	1.0000	1	192.51	38.50
Decachlorobiphenyl	20.618	238151.56	33.50	1.0000	1	33.50	6.70
		1676244.99	425.57			425.57	85.11

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.239	50903.83	165.32	1.0000	1	165.32	33.06
PCB1016#2	8.717	67718.62	161.72	1.0000	1	161.72	32.34
PCB1016#3	9.370	184980.32	167.92	1.0000	1	167.92	33.58
PCB1016#4	9.628	83966.38	167.59	1.0000	1	167.59	33.52
PCB1016#5	10.757	56245.53	162.27	1.0000	1	162.27	32.45
		443814.67	824.82			824.82	164.96

Group Report For : Aroclor-1260

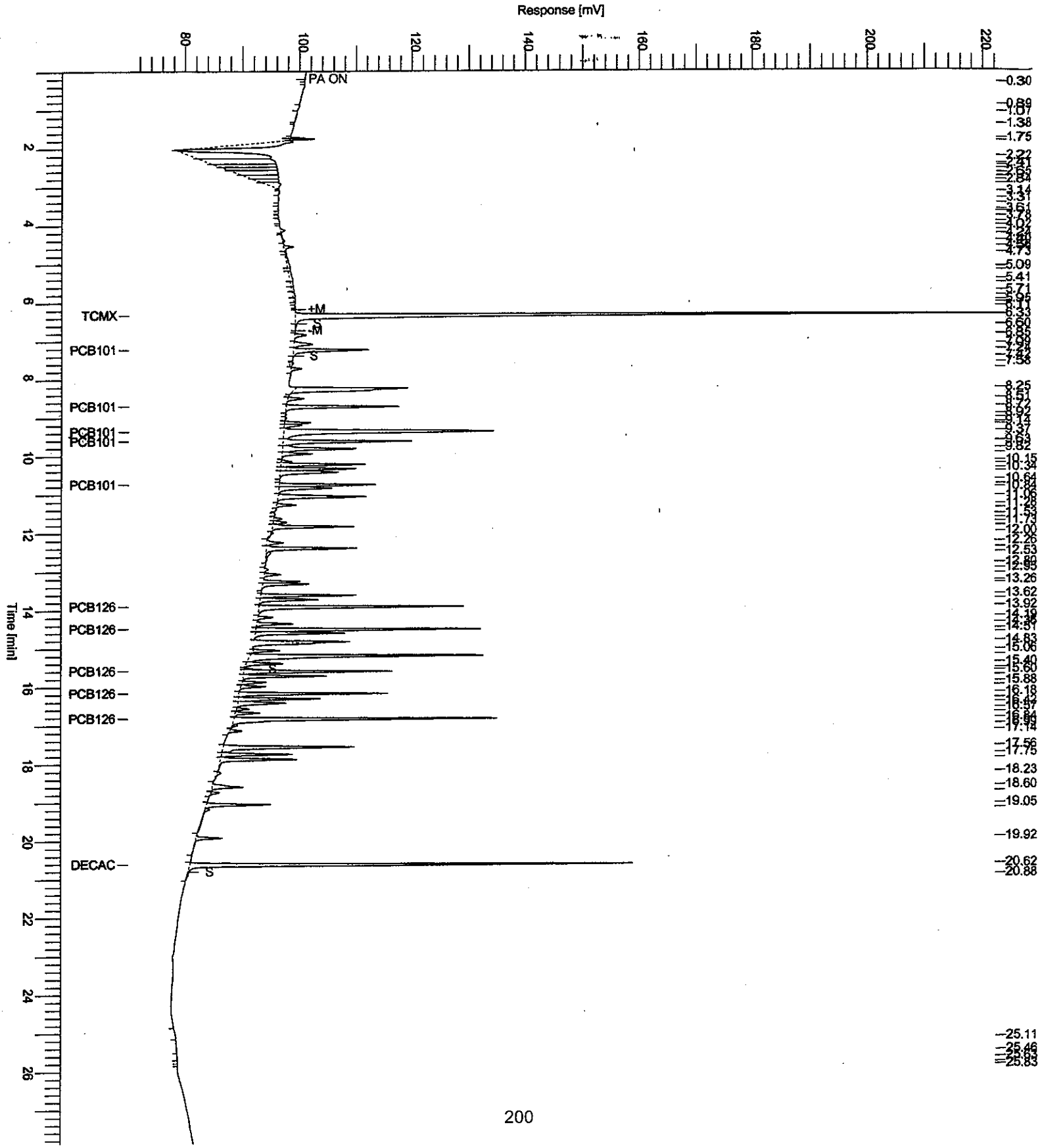
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.918	119140.00	191.82	1.0000	1	191.82	38.36
PCB1260#2	14.505	123409.06	193.58	1.0000	1	193.58	38.72
PCB1260#3	15.599	79013.45	198.54	1.0000	1	198.54	39.71
PCB1260#4	16.176	79448.62	195.54	1.0000	1	195.54	39.11
PCB1260#5	16.836	161097.13	187.98	1.0000	1	187.98	37.60
		562108.26	967.46			967.46	193.49

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\243b011p.TX0

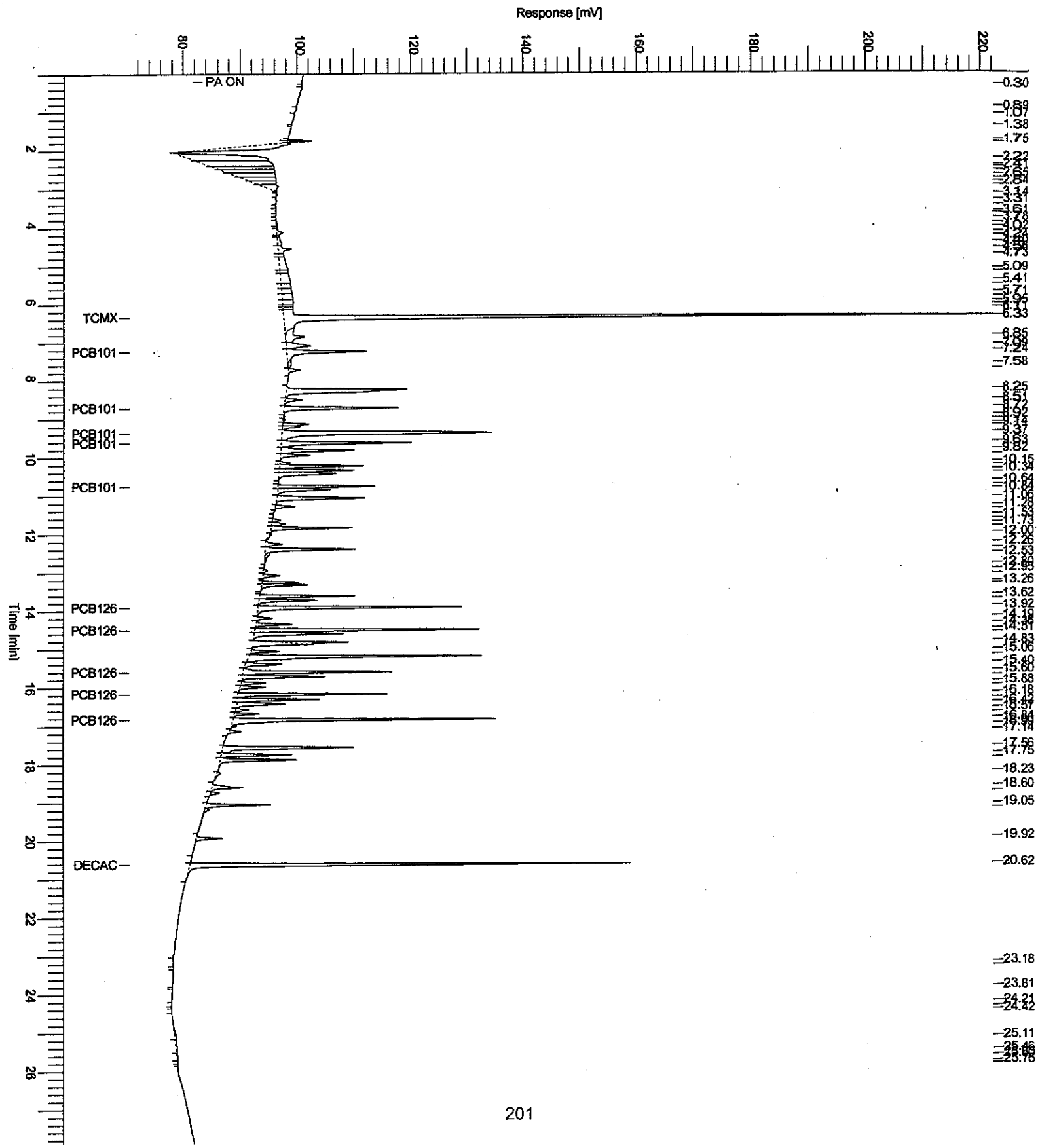
GC 06 Rtx-5

Sample Name : ical,04ws1424,pcb100_20 Sample #: level 3 Page 1 of 1
FileName : G:\gc06\chb\243b011.raw
Date : 8/31/04 10:06:03 AM
Method :
Time of Injection: 8/30/04 7:05:20 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 70.15 mV High Point : 222.40 mV
Plot Offset: 70.15 mV Plot Scale: 152.2 mV



GC 06 Rtx-5

Sample Name : ical,04ws1424,pcb100_20 Sample #: level 3 Page 1 of 1
FileName : G:\gc06\chb\243b011
Date : 8/31/04 9:03:09 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 7:05:20 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 70.53 mV High Point : 222.40 mV
Scale Factor: 1.0 Plot Offset: 70.53 mV Plot Scale: 151.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0962,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 8/31/04 9:26:54 AM
Data Acquisition Time : 8/30/04 7:38:33 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a012p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	804240.32	74.76	1.0000	1	74.76	14.95
Aroclor-1016	10.821	735704.60	388.76	1.0000	1	388.76	77.75
Aroclor-1260	18.253	1079658.98	389.40	1.0000	1	389.40	77.88
Decachlorobiphenyl	21.587	545341.97	62.92	1.0000	1	62.92	12.58
		3164945.88	915.84			915.84	183.17

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.618	99643.55	393.21	1.0000	1	393.21	78.64
PCB1016#2	9.583	183734.29	388.28	1.0000	1	388.28	77.66
PCB1016#3	10.821	204993.04	384.74	1.0000	1	384.74	76.95
PCB1016#4	11.165	134410.70	385.04	1.0000	1	385.04	77.01
PCB1016#5	12.219	112923.01	397.68	1.0000	1	397.68	79.54
		735704.60	1948.96			1948.96	389.79

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.269	189198.56	402.00	1.0000	1	402.00	80.40
PCB1260#2	15.948	290626.62	396.67	1.0000	1	396.67	79.33
PCB1260#3	16.908	141694.06	413.26	1.0000	1	413.26	82.65
PCB1260#4	17.515	148694.65	399.16	1.0000	1	399.16	79.83
PCB1260#5	18.253	309445.10	362.39	1.0000	1	362.39	72.48
		1079658.98	1973.47			1973.47	394.69

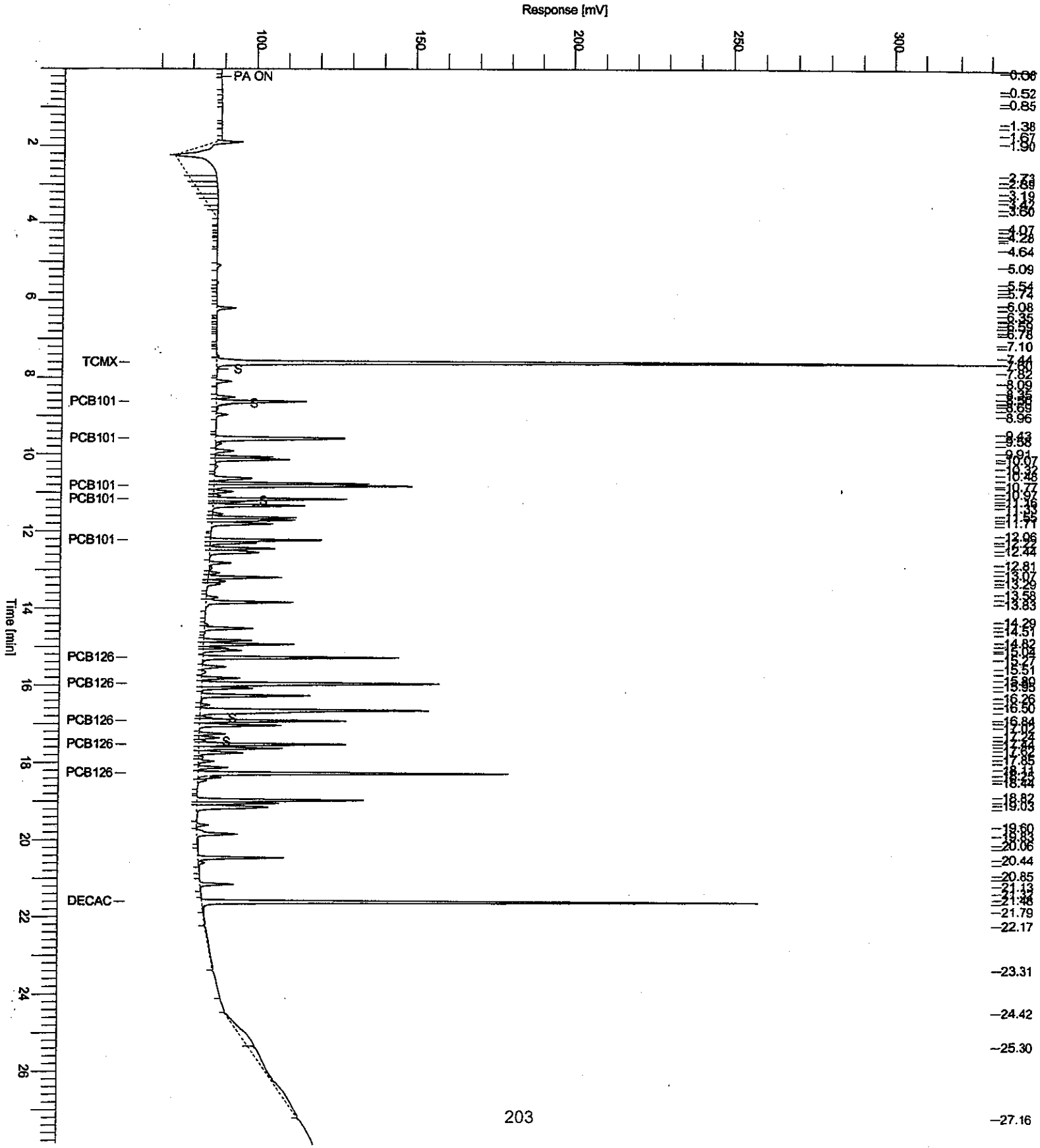
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\243a012p.TX0

JM 8/31/04

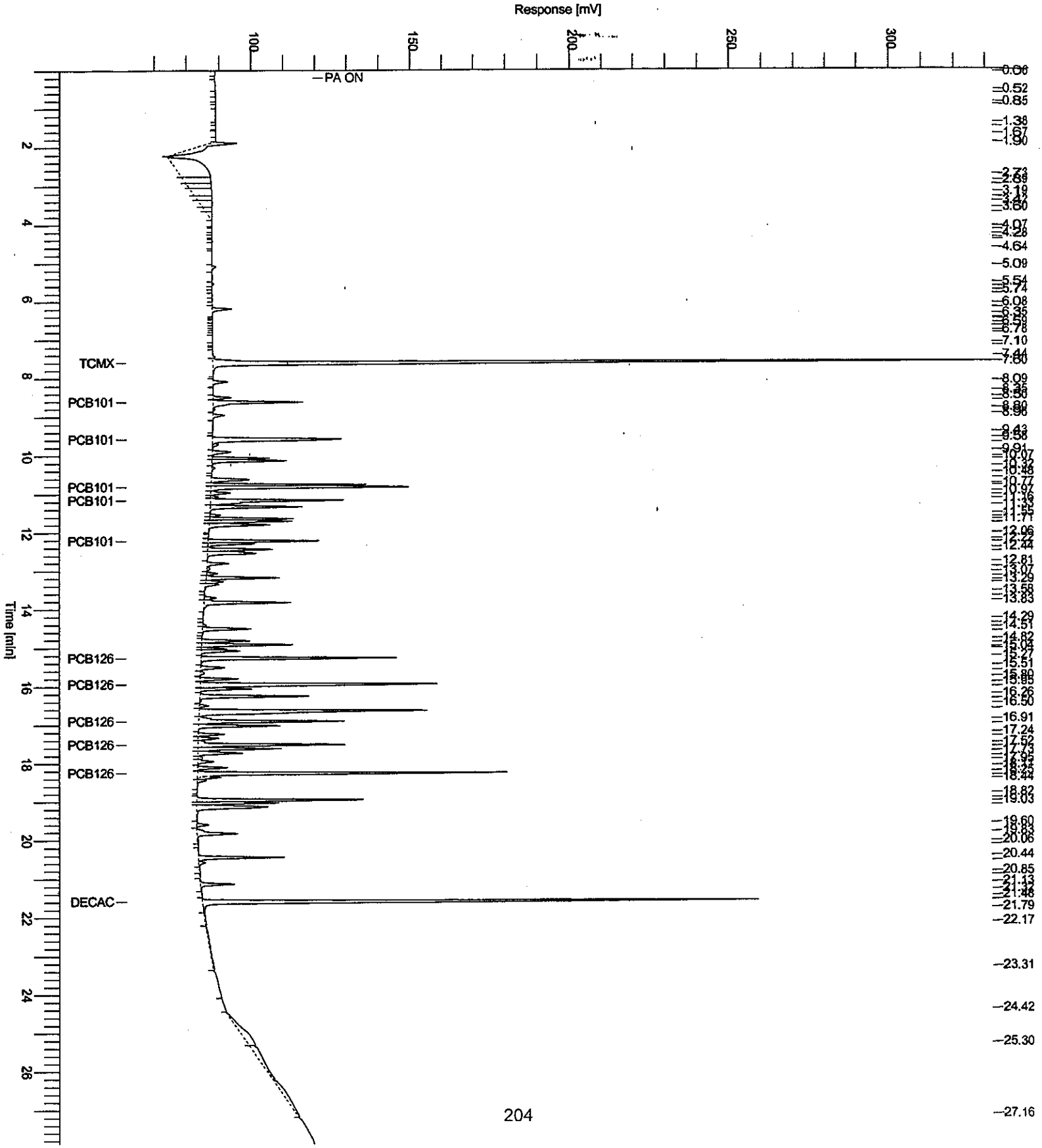
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0962,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc06\cha\243a012.raw
Date : 8/31/04 9:27:01 AM
Method : Time of Injection: 8/30/04 7:38:33 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 60.53 mV High Point : 332.37 mV
Plot Offset: 60.53 mV Plot Scale: 271.8 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0962,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc06\cha\243a012.raw
Date : 8/31/04 9:02:25 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 7:38:33 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 61.21 mV High Point : 332.37 mV
Scale Factor: 1.0 Plot Offset: 61.21 mV Plot Scale: 271.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0962,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 8/31/04 10:10:04 AM
Data Acquisition Time : 8/30/04 7:38:33 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b012p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	1061245.31	82.77	1.0000	1	82.77	16.55
Aroclor-1016	9.373	1068061.58	399.14	1.0000	1	399.14	79.83
Aroclor-1260	16.827	1306381.78	447.41	1.0000	1	447.41	89.48
Decachlorobiphenyl	20.613	536232.35	75.43	1.0000	1	75.43	15.09
		3971921.02	1004.75			1004.75	200.95

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.233	126374.36	410.42	1.0000	1	410.42	82.08
PCB1016#2	8.711	161552.62	385.81	1.0000	1	385.81	77.16
PCB1016#3	9.373	443507.45	402.60	1.0000	1	402.60	80.52
PCB1016#4	9.624	198660.75	396.52	1.0000	1	396.52	79.30
PCB1016#5	10.751	137966.41	398.04	1.0000	1	398.04	79.61
		1068061.58	1993.38			1993.38	398.68

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	272888.38	439.37	1.0000	1	439.37	87.87
PCB1260#2	14.493	283723.12	445.04	1.0000	1	445.04	89.01
PCB1260#3	15.596	179802.50	451.79	1.0000	1	451.79	90.36
PCB1260#4	16.173	187270.74	460.91	1.0000	1	460.91	92.18
PCB1260#5	16.827	382697.05	446.57	1.0000	1	446.57	89.31
		1306381.78	2243.68			2243.68	448.74

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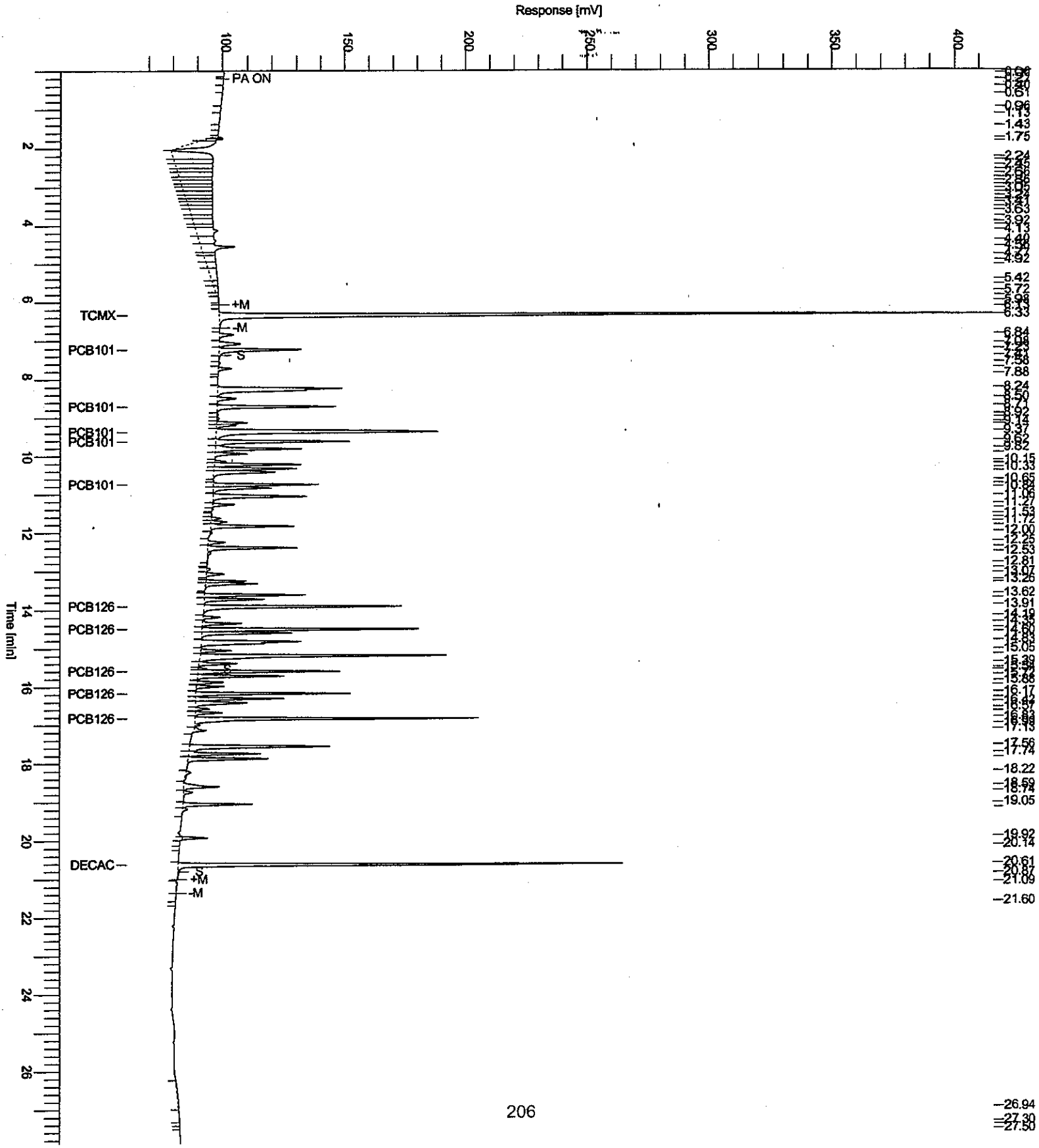
Report stored in ASCII file: G:\gc06\chb\243b012p.TX0

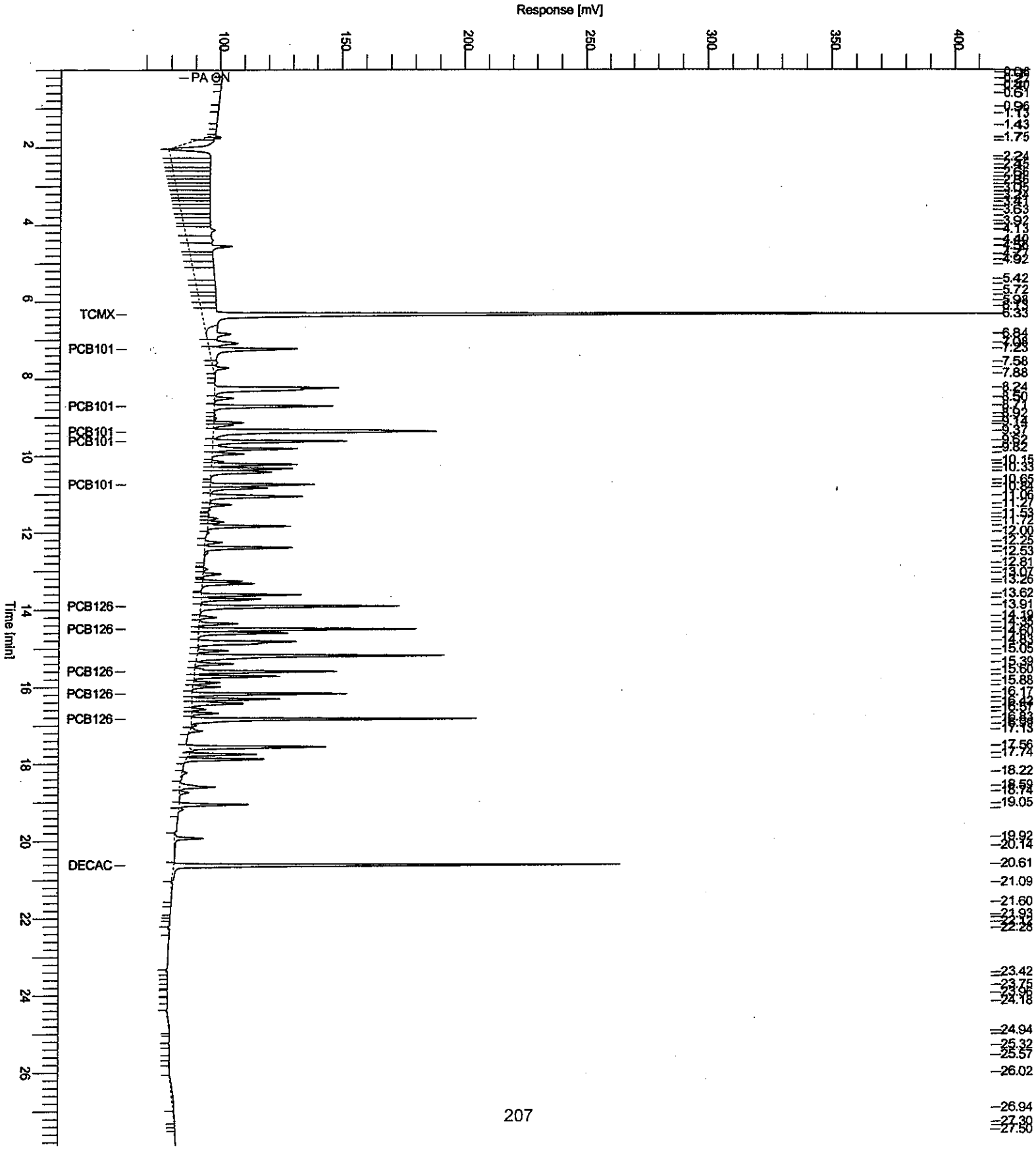
GC 06 Rtx-5

Sample Name : ical,04ws0962,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc06\chb\243b012.raw
Date : 8/31/04 10:10:13 AM
Method : Time of Injection: 8/30/04 7:38:33 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 60.98 mV High Point : 416.22 mV
Plot Offset: 60.98 mV Plot Scale: 355.2 mV



GC 06 Rtx-5

Sample Name : ical,04ws0962,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc06\chb\243b012
Date : 8/31/04 9:03:16 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 7:38:33 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 61.87 mV High Point : 416.22 mV
Scale Factor: 1.0 Plot Offset: 61.87 mV Plot Scale: 354.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1522,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 8/31/04 9:28:59 AM
Data Acquisition Time : 8/30/04 8:11:46 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a013p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	1610192.11	149.67	1.0000	1	149.67	29.93
Aroclor-1016	10.813	1447915.75	765.10	1.0000	1	765.10	153.02
Aroclor-1260	18.253	2101749.62	758.04	1.0000	1	758.04	151.61
Decachlorobiphenyl	21.587	1004109.48	115.85	1.0000	1	115.85	23.17
		6163966.97	1788.66			1788.66	357.73

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.617	196918.95	777.07	1.0000	1	777.07	155.41
PCB1016#2	9.573	352085.91	744.06	1.0000	1	744.06	148.81
PCB1016#3	10.813	412172.75	773.59	1.0000	1	773.59	154.72
PCB1016#4	11.160	264640.72	758.11	1.0000	1	758.11	151.62
PCB1016#5	12.218	222097.43	782.16	1.0000	1	782.16	156.43
		1447915.75	3834.99			3834.99	767.00

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.267	363777.67	772.94	1.0000	1	772.94	154.59
PCB1260#2	15.947	563303.69	768.84	1.0000	1	768.84	153.77
PCB1260#3	16.907	275859.99	804.56	1.0000	1	804.56	160.91
PCB1260#4	17.507	293662.27	788.32	1.0000	1	788.32	157.66
PCB1260#5	18.253	605146.00	708.68	1.0000	1	708.68	141.74
		2101749.62	3843.33			3843.33	768.67

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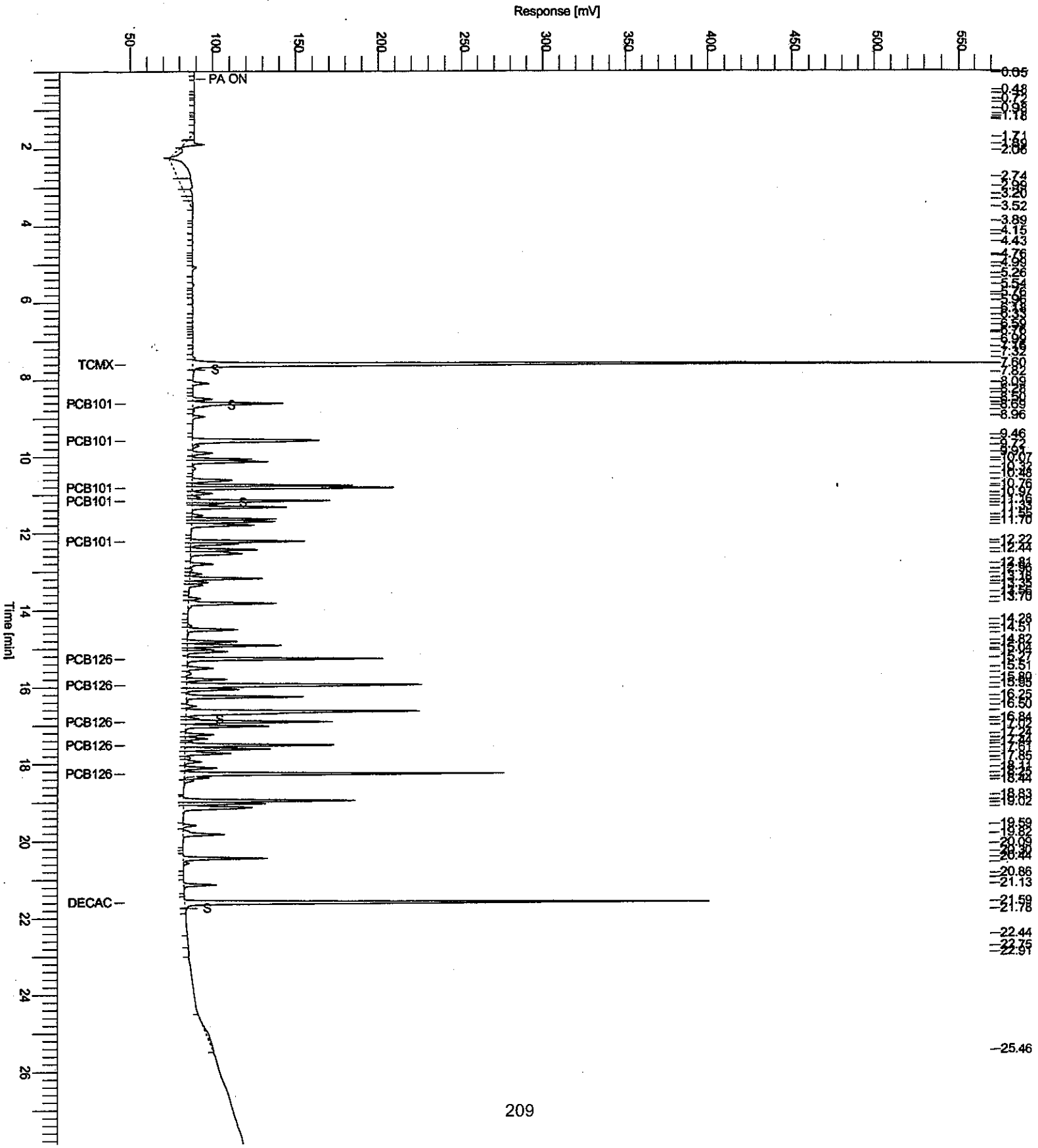
Report stored in ASCII file: G:\gc06\cha\243a013p.TX0

8/31/04

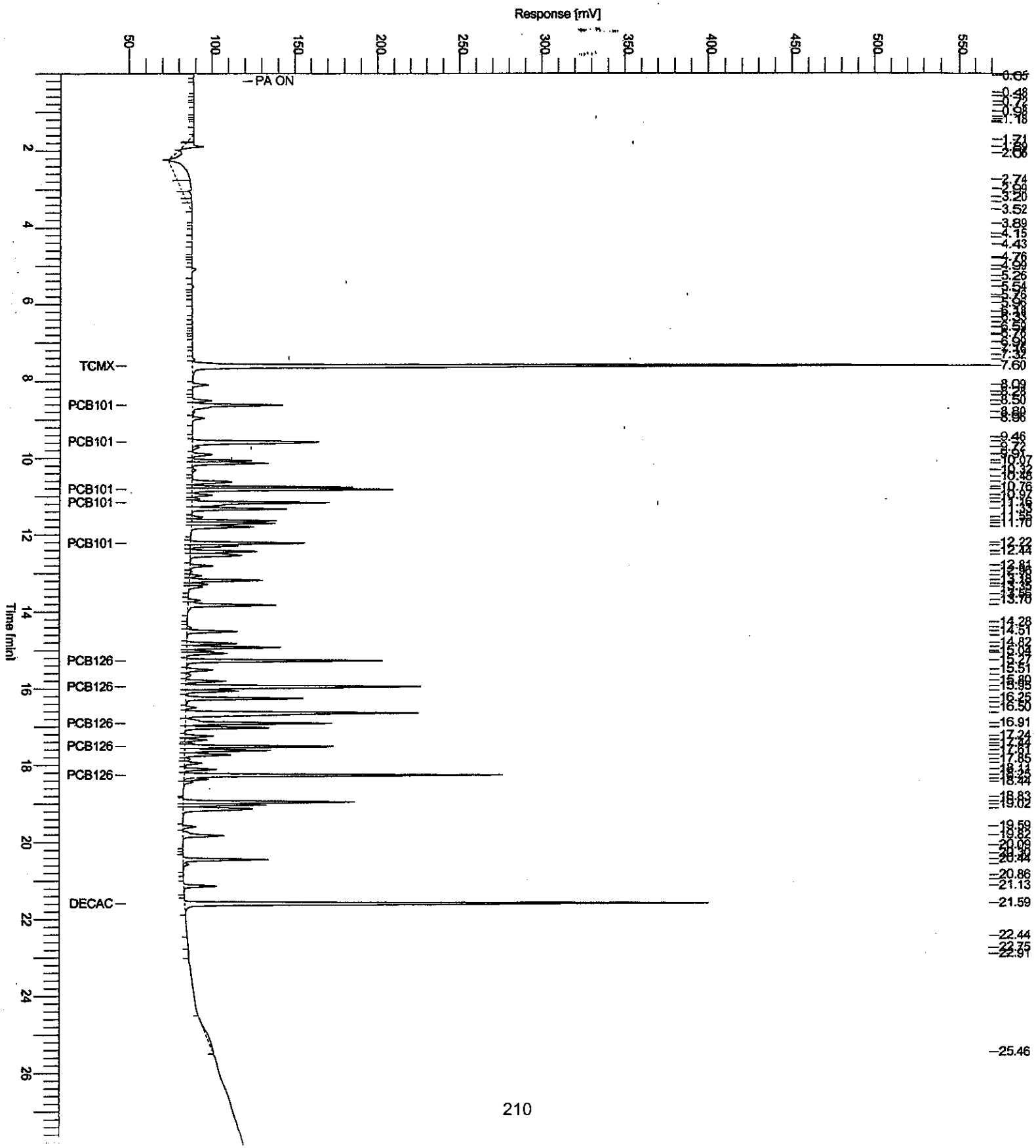
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\cha\243a013.raw
Date : 8/31/04 9:29:07 AM
Method : Time of Injection: 8/30/04 8:11:46 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 47.27 mV High Point : 570.33 mV
Plot Offset: 47.27 mV Plot Scale: 523.1 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\cha\243a013.raw
Date : 8/31/04 9:02:32 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 8:11:46 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 48.57 mV High Point : 570.33 mV
Scale Factor: 1.0 Plot Offset: 48.57 mV Plot Scale: 521.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1522,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 8/31/04 10:19:30 AM
Data Acquisition Time : 8/30/04 8:11:46 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b013p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	2068710.28	161.35	1.0000	1	161.35	32.27
Aroclor-1016	9.373	2117680.94	791.39	1.0000	1	791.39	158.28
Aroclor-1260	16.827	2569051.89	879.85	1.0000	1	879.85	175.97
Decachlorobiphenyl	20.613	1009622.95	142.02	1.0000	1	142.02	28.40
		7765066.05	1974.61			1974.61	394.92

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.227	245070.46	795.90	1.0000	1	795.90	159.18
PCB1016#2	8.707	314672.89	751.48	1.0000	1	751.48	150.30
PCB1016#3	9.373	881928.29	800.59	1.0000	1	800.59	160.12
PCB1016#4	9.627	397760.42	793.91	1.0000	1	793.91	158.78
PCB1016#5	10.747	278248.88	802.75	1.0000	1	802.75	160.55
		2117680.94	3944.62			3944.62	788.92

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	534096.38	859.93	1.0000	1	859.93	171.99
PCB1260#2	14.493	546944.15	857.93	1.0000	1	857.93	171.59
PCB1260#3	15.587	346615.02	870.94	1.0000	1	870.94	174.19
PCB1260#4	16.173	366363.94	901.69	1.0000	1	901.69	180.34
PCB1260#5	16.827	775032.40	904.38	1.0000	1	904.38	180.88
		2569051.89	4394.87			4394.87	878.97

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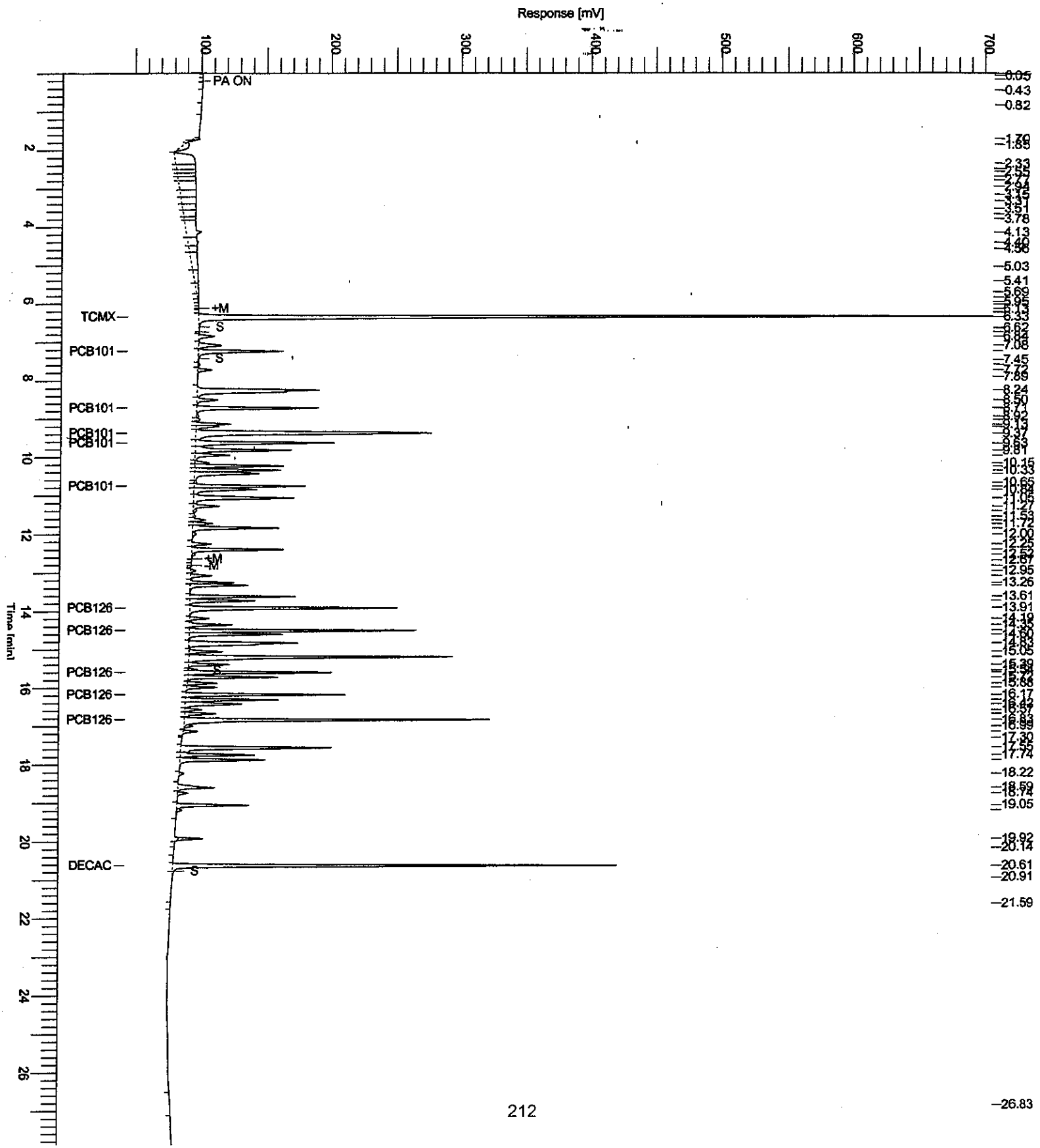
Report stored in ASCII file: G:\gc06\chb\243b013p.TX0

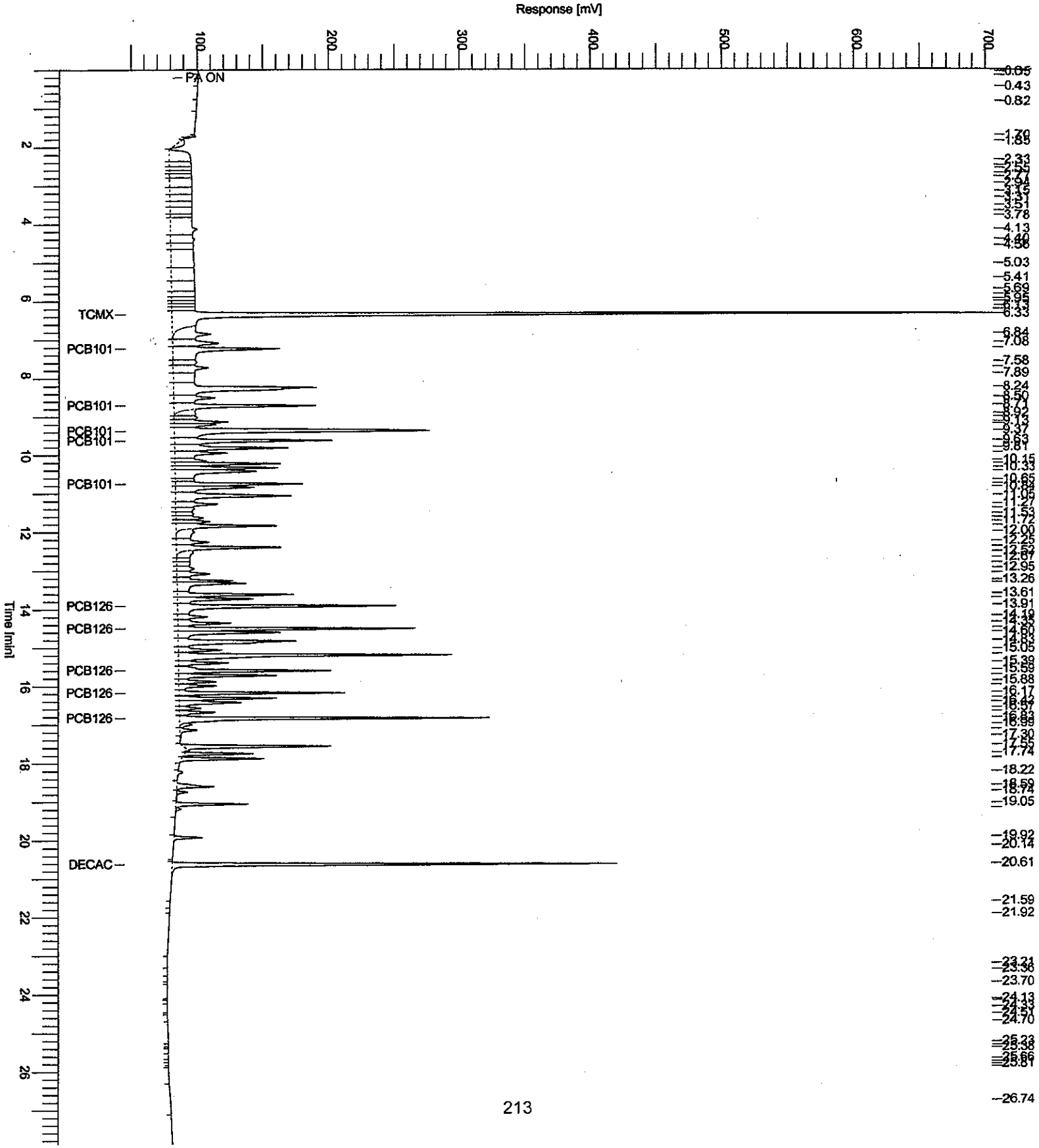
GC 06 Rtx-5

Sample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\chb\243b013.raw
Date : 8/31/04 10:19:38 AM
Method :
Time of Injection: 8/30/04 8:11:46 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 44.69 mV High Point : 706.88 mV
Plot Offset: 44.69 mV Plot Scale: 662.2 mV



GC 06 Rtx-5

Sample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc06\chb\243b013
Date : 8/31/04 9:03:23 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 8:11:46 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 46.35 mV High Point : 706.88 mV
Scale Factor: 1.0 Plot Offset: 46.35 mV Plot Scale: 660.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0964,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 8/31/04 9:31:44 AM
Data Acquisition Time : 8/30/04 8:44:58 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a014p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	2375328.54	220.80	1.0000	1	220.80	44.16
Aroclor-1016	10.827	2081307.71	1099.80	1.0000	1	1099.80	219.96
Aroclor-1260	18.253	2896835.90	1044.81	1.0000	1	1044.81	208.96
Decachlorobiphenyl	21.587	1373466.13	158.46	1.0000	1	158.46	31.69
		8726938.28	2523.86			2523.86	504.77

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.613	285068.63	1124.92	1.0000	1	1124.92	224.98
PCB1016#2	9.587	500520.63	1057.74	1.0000	1	1057.74	211.55
PCB1016#3	10.827	601150.77	1128.27	1.0000	1	1128.27	225.65
PCB1016#4	11.160	379070.22	1085.92	1.0000	1	1085.92	217.18
PCB1016#5	12.213	315497.46	1111.09	1.0000	1	1111.09	222.22
		2081307.71	5507.94			5507.94	1101.59

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.267	498975.99	1060.20	1.0000	1	1060.20	212.04
PCB1260#2	15.947	773408.01	1055.60	1.0000	1	1055.60	211.12
PCB1260#3	16.907	377391.76	1100.68	1.0000	1	1100.68	220.14
PCB1260#4	17.507	407848.14	1094.84	1.0000	1	1094.84	218.97
PCB1260#5	18.253	839212.00	982.79	1.0000	1	982.79	196.56
		2896835.90	5294.12			5294.12	1058.82

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Report stored in ASCII file: G:\gc06\cha\243a014p.TX0

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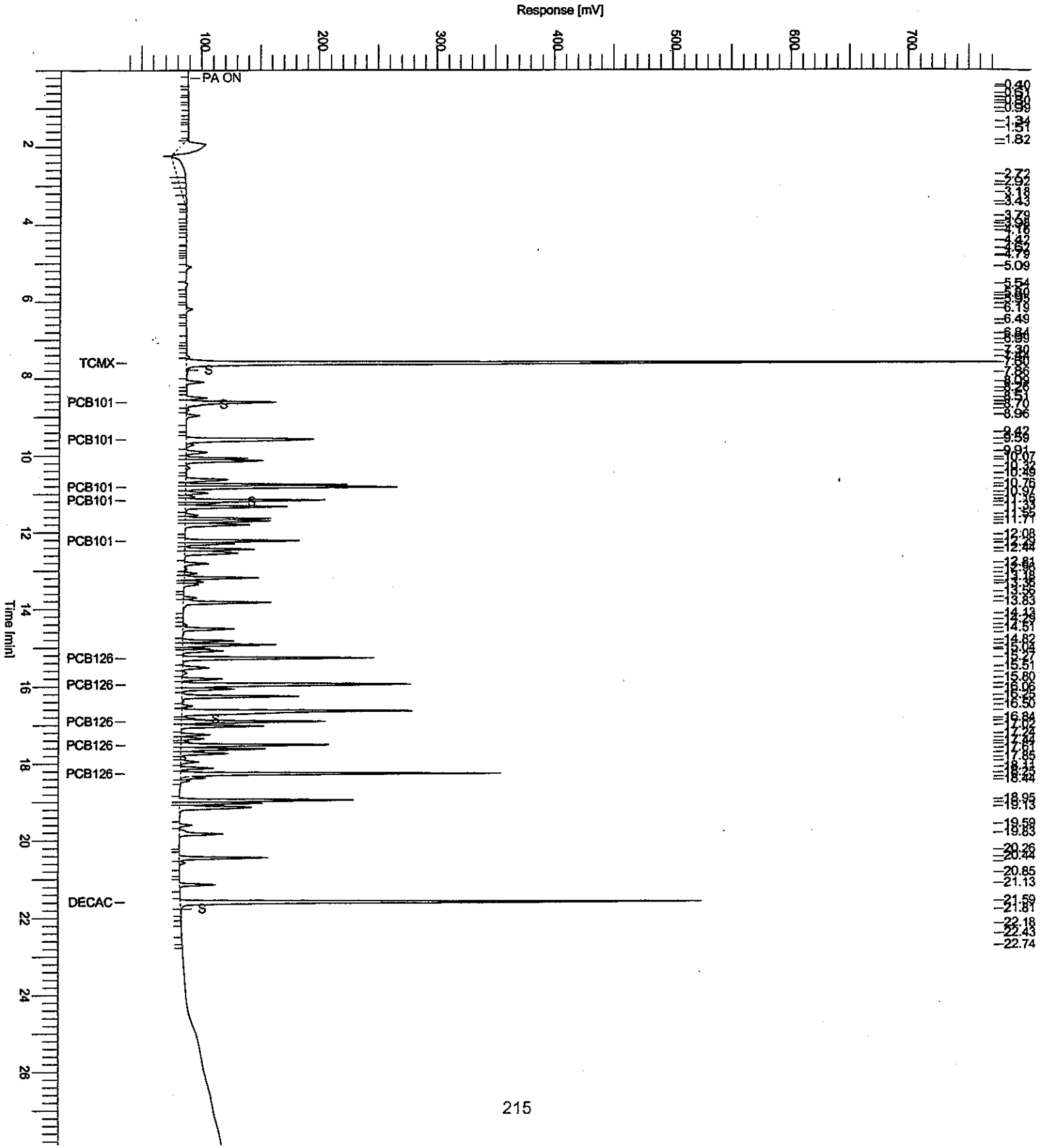
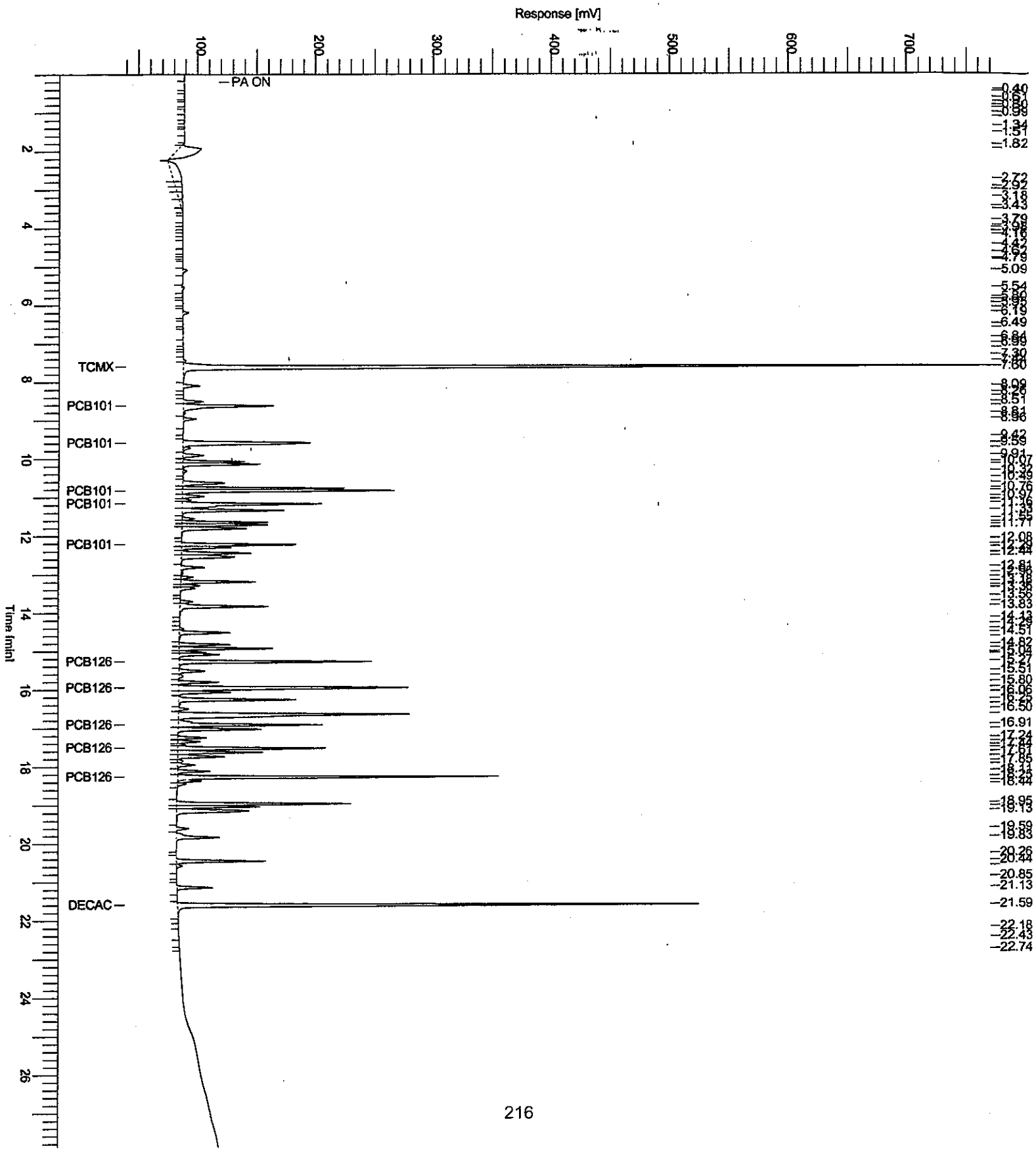
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
FileName : G:\gc06\cha\243a014.raw
Date : 8/31/04 9:31:52 AM
Method : Time of Injection: 8/30/04 8:44:58 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 37.54 mV High Point : 772.02 mV
Plot Offset: 37.54 mV Plot Scale: 734.5 mV



GC 06 Rtx-CLPesticides

Sample Name : lcal,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
FileName : G:\gc06\cha\243a014.raw
Date : 8/31/04 9:02:40 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 8:44:58 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 39.38 mV High Point : 772.02 mV
Scale Factor: 1.0 Plot Offset: 39.38 mV Plot Scale: 732.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0964,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 8/31/04 10:17:03 AM
Data Acquisition Time : 8/30/04 8:44:58 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b014p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	2979434.98	232.38	1.0000	1	232.38	46.48
Aroclor-1016	9.373	2931453.64	1095.50	1.0000	1	1095.50	219.10
Aroclor-1260	16.827	3568423.85	1222.12	1.0000	1	1222.12	244.42
Decachlorobiphenyl	20.613	1400703.92	197.03	1.0000	1	197.03	39.41
		10880016.40	2747.03			2747.03	549.41

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.227	347725.03	1129.28	1.0000	1	1129.28	225.86
PCB1016#2	8.707	430692.08	1028.54	1.0000	1	1028.54	205.71
PCB1016#3	9.373	1226827.10	1113.68	1.0000	1	1113.68	222.74
PCB1016#4	9.613	547088.45	1091.96	1.0000	1	1091.96	218.39
PCB1016#5	10.747	379120.98	1093.77	1.0000	1	1093.77	218.75
		2931453.64	5457.23			5457.23	1091.45

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	732197.50	1178.88	1.0000	1	1178.88	235.78
PCB1260#2	14.493	743438.51	1166.14	1.0000	1	1166.14	233.23
PCB1260#3	15.587	483365.83	1214.55	1.0000	1	1214.55	242.91
PCB1260#4	16.173	516035.73	1270.06	1.0000	1	1270.06	254.01
PCB1260#5	16.827	1093386.29	1275.87	1.0000	1	1275.87	255.17
		3568423.85	6105.52			6105.52	1221.10

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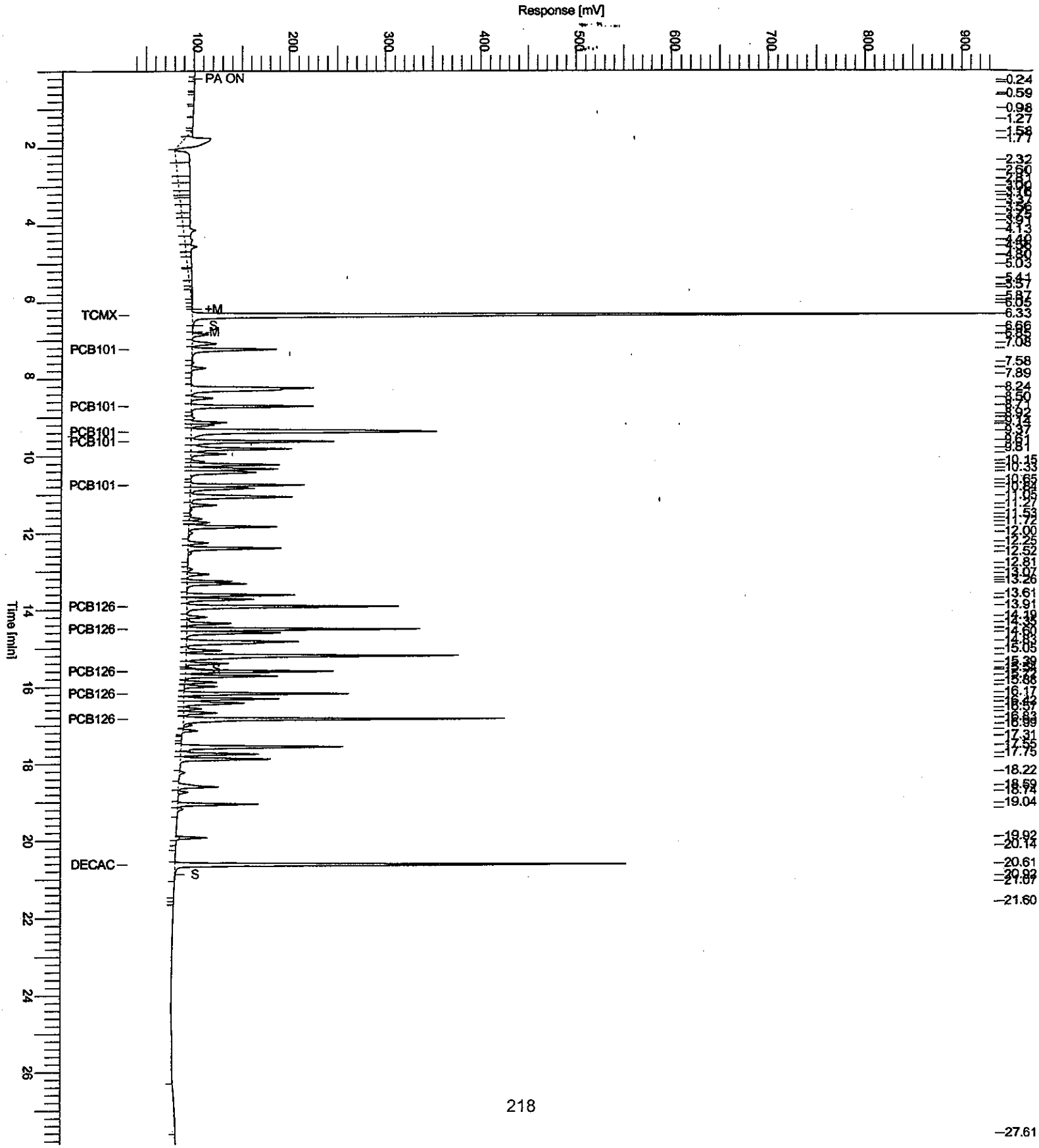
Report stored in ASCII file: G:\gc06\chb\243b014p.TX0

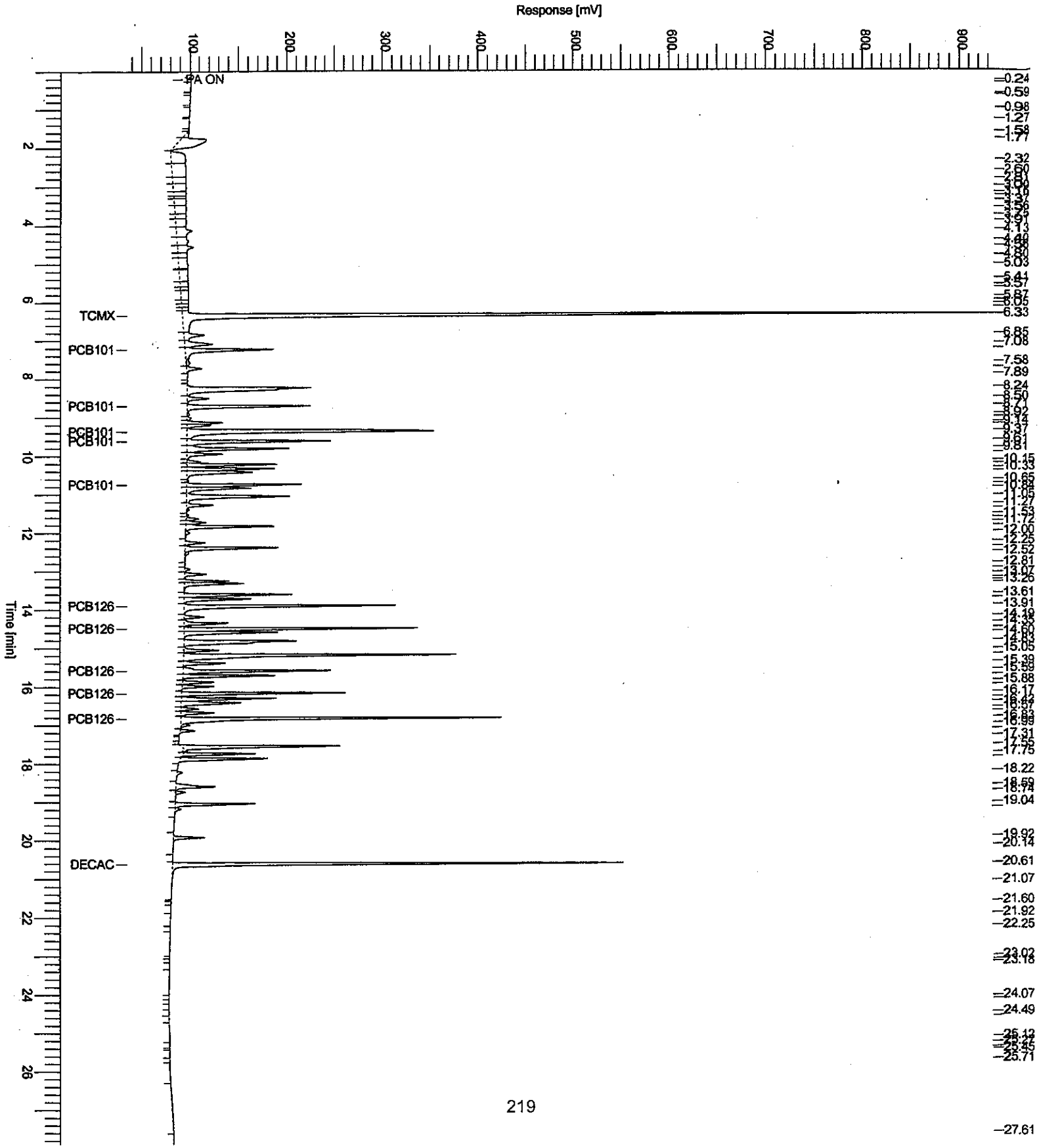
GC 06 Rtx-5

Sample Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
FileName : G:\gc06\chb\243b014.raw
Date : 8/31/04 10:17:19 AM
Method : Time of Injection: 8/30/04 8:44:58 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 32.29 mV High Point : 937.09 mV
Plot Offset: 32.29 mV Plot Scale: 904.8 mV



GC 06 Rtx-5

Sample Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
FileName : G:\gc06\chb\243b014
Date : 8/31/04 9:03:31 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 8:44:58 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 34.56 mV High Point : 937.09 mV
Scale Factor: 1.0 Plot Offset: 34.56 mV Plot Scale: 902.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0967,pcb1K_200
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 8/31/04 9:33:43 AM
Data Acquisition Time : 8/30/04 9:18:12 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a015p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	3069246.05	285.30	1.0000	1	285.30	57.06
Aroclor-1016	10.827	2722916.04	1438.83	1.0000	1	1438.83	287.77
Aroclor-1260	18.253	3990210.45	1439.15	1.0000	1	1439.15	287.83
Decachlorobiphenyl	21.587	1964254.58	226.62	1.0000	1	226.62	45.32
		11746627.13	3389.91			3389.91	677.98

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.613	365512.42	1442.37	1.0000	1	1442.37	288.47
PCB1016#2	9.573	643869.88	1360.68	1.0000	1	1360.68	272.14
PCB1016#3	10.827	791495.94	1485.52	1.0000	1	1485.52	297.10
PCB1016#4	11.160	502061.96	1438.25	1.0000	1	1438.25	287.65
PCB1016#5	12.213	419975.83	1479.03	1.0000	1	1479.03	295.81
		2722916.04	7205.84			7205.84	1441.17

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.267	670475.19	1424.60	1.0000	1	1424.60	284.92
PCB1260#2	15.947	1047875.29	1430.21	1.0000	1	1430.21	286.04
PCB1260#3	16.907	518091.53	1511.04	1.0000	1	1511.04	302.21
PCB1260#4	17.520	566678.82	1521.21	1.0000	1	1521.21	304.24
PCB1260#5	18.253	1187089.61	1390.19	1.0000	1	1390.19	278.04
		3990210.45	7277.25			7277.25	1455.45

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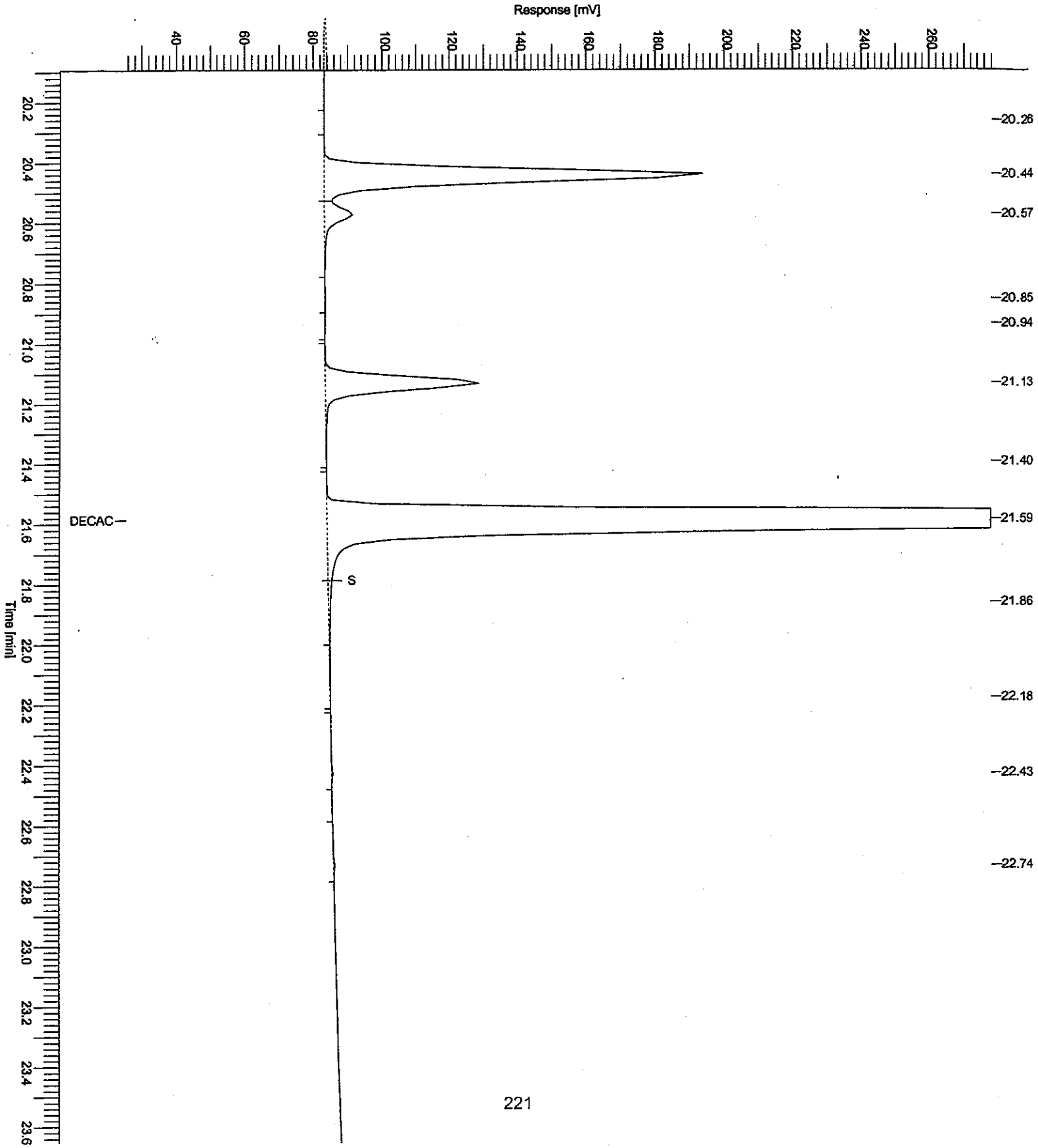
Report stored in ASCII file: G:\gc06\cha\243a015p.TX0

JM 8/31/04

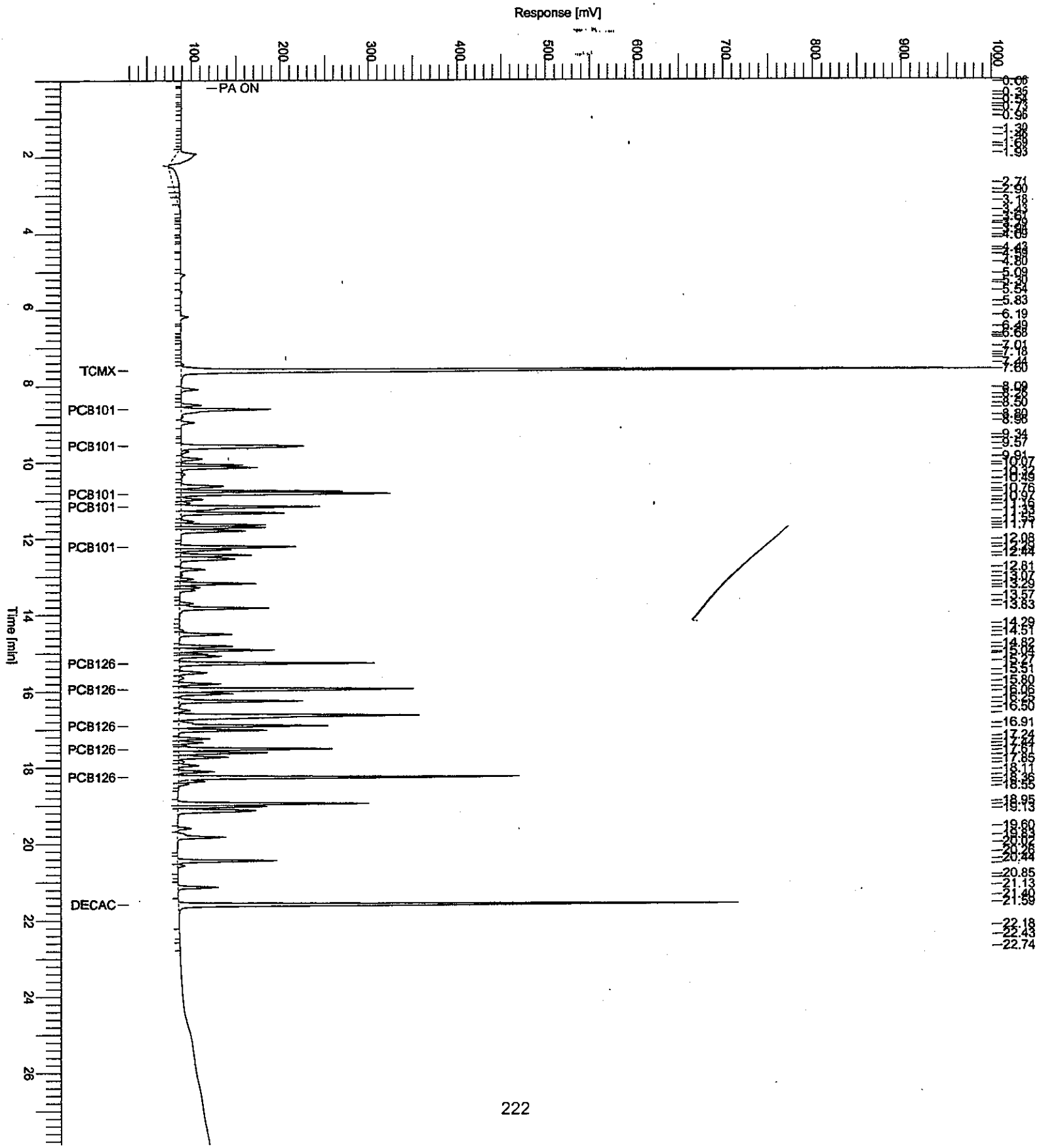
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws0967,pcb1K_200 Sample #: level 7 Page 1 of 1
FileName : G:\gc06\cha\243a015.raw
Date : 8/31/04 9:33:49 AM
Method : Time of Injection: 8/30/04 9:18:12 PM
Start Time : 20.09 min End Time : 23.65 min Low Point : 25.43 mV High Point : 278.01 mV
Plot Offset: 25.43 mV Plot Scale: 252.6 mV



GC 06 Rtx-CLPesticides

Sample Name: ical,04ws0967,pcb1K_200 Sample #: level 7 Page 1 of 1
FileName : G:\gc06\cha\243a015.raw
Date : 8/31/04 9:02:47 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 9:18:12 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 27.87 mV High Point : 1001.45 mV
Scale Factor: 1.0 Plot Offset: 27.87 mV Plot Scale: 973.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0967,pcb1K_200
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 8/31/04 10:22:04 AM
Data Acquisition Time : 8/30/04 9:18:12 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b015p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	3607993.55	281.40	1.0000	1	281.40	56.28
Aroclor-1016	9.373	3879181.77	1449.68	1.0000	1	1449.68	289.94
Aroclor-1260	16.827	4885786.42	1673.29	1.0000	1	1673.29	334.66
Decachlorobiphenyl	20.613	2003331.33	281.80	1.0000	1	281.80	56.36
		14376293.06	3686.17			3686.17	737.23

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.227	446321.04	1449.48	1.0000	1	1449.48	289.90
PCB1016#2	8.707	565363.49	1350.15	1.0000	1	1350.15	270.03
PCB1016#3	9.373	1639639.94	1488.41	1.0000	1	1488.41	297.68
PCB1016#4	9.613	723937.21	1444.94	1.0000	1	1444.94	288.99
PCB1016#5	10.747	503920.09	1453.82	1.0000	1	1453.82	290.76
		3879181.77	7186.81			7186.81	1437.36

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	975781.92	1571.07	1.0000	1	1571.07	314.21
PCB1260#2	14.493	998229.45	1565.81	1.0000	1	1565.81	313.16
PCB1260#3	15.600	655324.40	1646.64	1.0000	1	1646.64	329.33
PCB1260#4	16.173	711996.34	1752.36	1.0000	1	1752.36	350.47
PCB1260#5	16.827	1544454.31	1802.22	1.0000	1	1802.22	360.44
		4885786.42	8338.09			8338.09	1667.62

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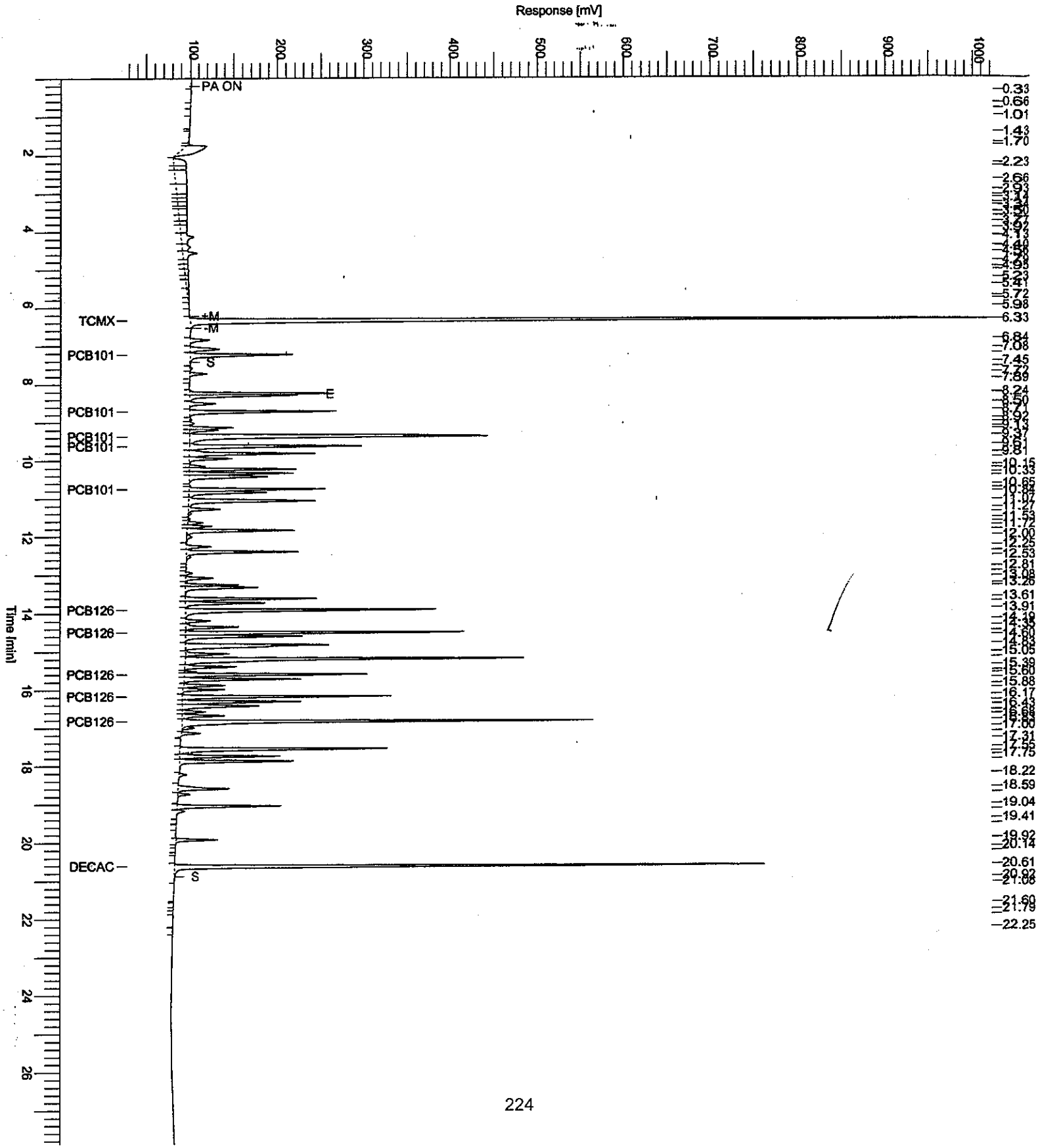
Report stored in ASCII file: G:\gc06\chb\243b015p.TX0

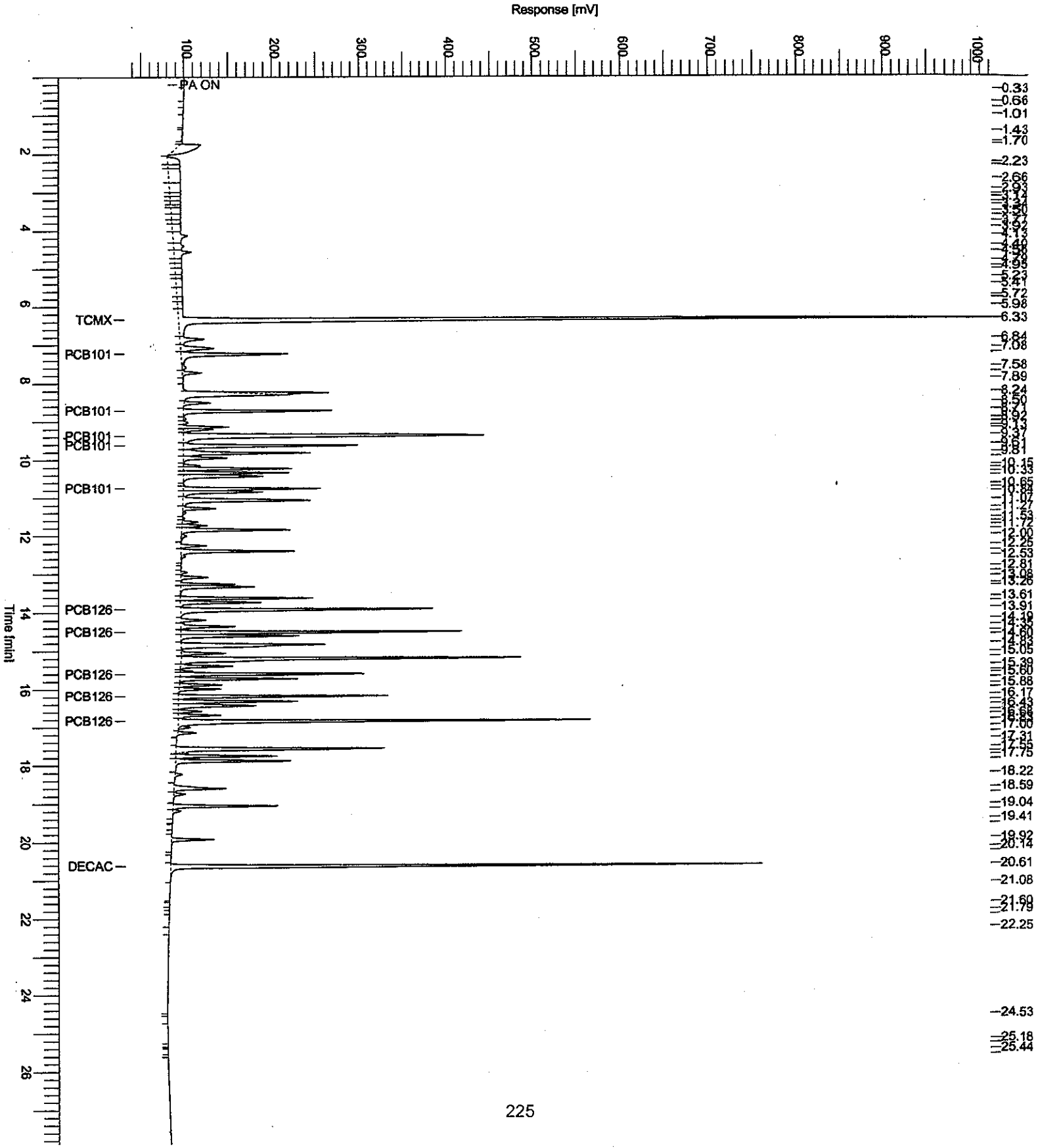
GC 06 Rtx-5

Sample Name : ical,04ws0967,pcb1K_200 Sample #: level 7 Page 1 of 1
FileName : G:\gc06\chb\243b015.raw
Date : 8/31/04 10:22:10 AM
Method :
Time of Injection: 8/30/04 9:18:12 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 27.70 mV High Point : 1024.00 mV
Plot Offset: 27.70 mV Plot Scale: 996.3 mV



GC 06 Rtx-5

Sample Name : ical,04ws0967,pcb1K_200 Sample #: level 7 Page 1 of 1
FileName : G:\gc06\chb\243b015
Date : 8/31/04 9:03:37 AM
Method : gc06fsa1ul Time of Injection: 8/30/04 9:18:12 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 30.19 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 30.19 mV Plot Scale: 993.8 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : accu_1660
Seqnum : 204350924020 Filename : 243_020 Injected : 31-AUG-2004 00:04
Calnum : 204350924001 Caldate : 30-AUG-2004 Caltype :
Standards: 04WS1423

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aroclor-1016	A	250.0000	278.7274	pg	11	15	
Aroclor-1260	A	250.0000	276.9407	pg	11	15	
TCMX	A	50.00000	50.89929	pg	2	15	
Decachlorobiphenyl	A	50.00000	49.35142	pg	-1	15	
Aroclor-1016	B	250.0000	275.1932	pg	10	15	
Aroclor-1260	B	250.0000	274.8878	pg	10	15	
TCMX	B	50.00000	51.77873	pg	4	15	
Decachlorobiphenyl	B	50.00000	48.32374	pg	-3	15	

/ hmw 8/31/04

Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1423,accu_1660
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 8/31/04 10:37:17 AM
Data Acquisition Time : 8/31/04 12:04:16 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a020p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	841029.39	50.90	1.0000	1	50.90	10.18
Aroclor-1016	10.821	832835.95	278.81	1.0000	1	278.81	55.76
Aroclor-1260	18.253	1227785.14	276.62	1.0000	1	276.62	55.32
Decachlorobiphenyl	21.587	555888.49	49.35	1.0000	1	49.35	9.87
		3457538.97	655.69			655.69	131.14

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.619	114582.94	283.20	1.0000	1	283.20	56.64
PCB1016#2	9.587	209198.02	285.21	1.0000	1	285.21	57.04
PCB1016#3	10.821	232665.27	276.87	1.0000	1	276.87	55.37
PCB1016#4	11.165	148938.78	272.35	1.0000	1	272.35	54.47
PCB1016#5	12.219	127450.95	276.01	1.0000	1	276.01	55.20
		832835.95	1393.64			1393.64	278.73

114582.94 / 404.61 = 283.2

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.268	212494.93	268.65	1.0000	1	268.65	53.73
PCB1260#2	15.947	331325.75	271.13	1.0000	1	271.13	54.23
PCB1260#3	16.907	160937.93	277.55	1.0000	1	277.55	55.51
PCB1260#4	17.512	170163.37	284.56	1.0000	1	284.56	56.91
PCB1260#5	18.253	352863.16	282.82	1.0000	1	282.82	56.56
		1227785.14	1384.70			1384.70	276.94

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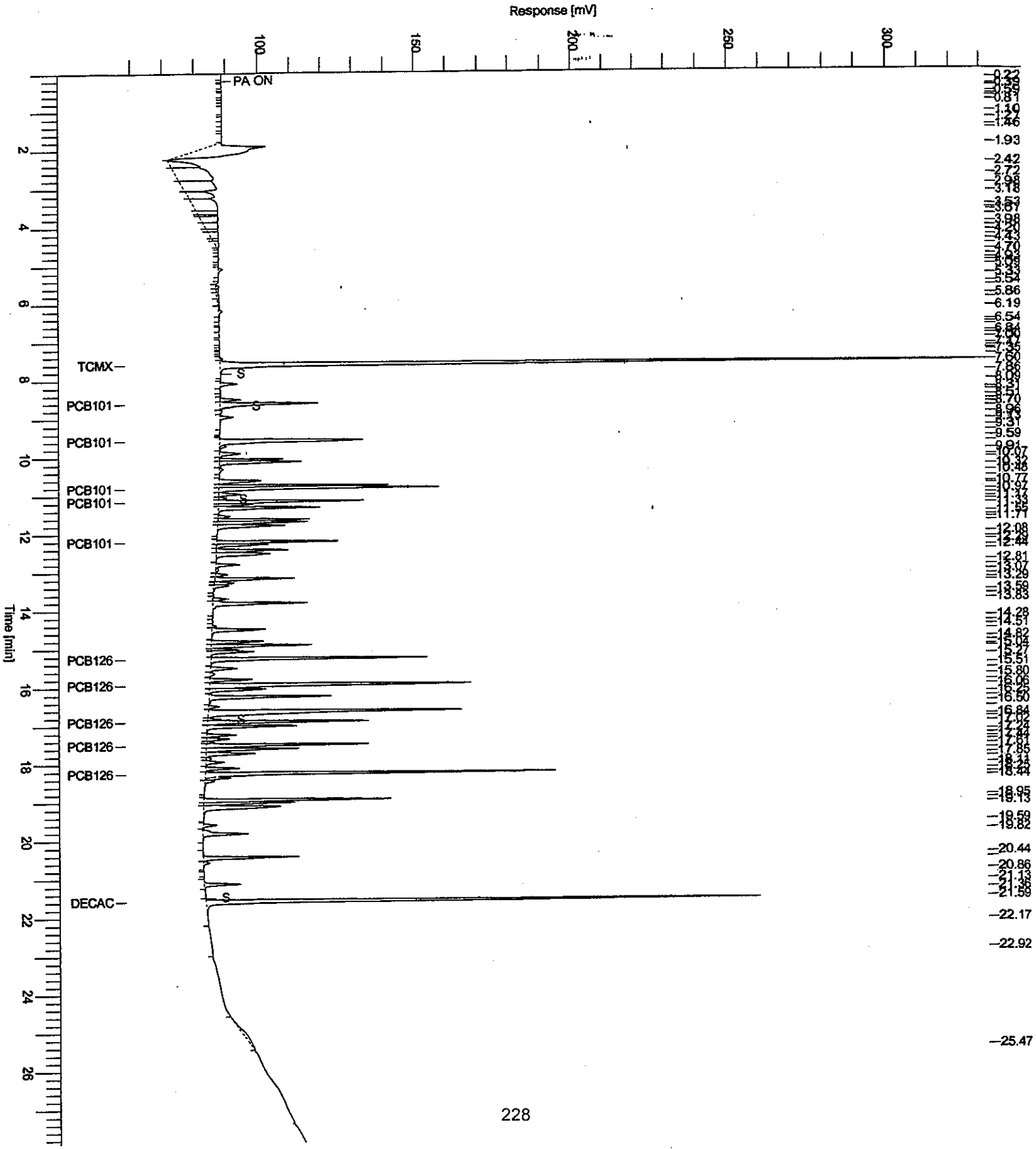
Report stored in ASCII file: G:\gc06\cha\243a020p.TX0

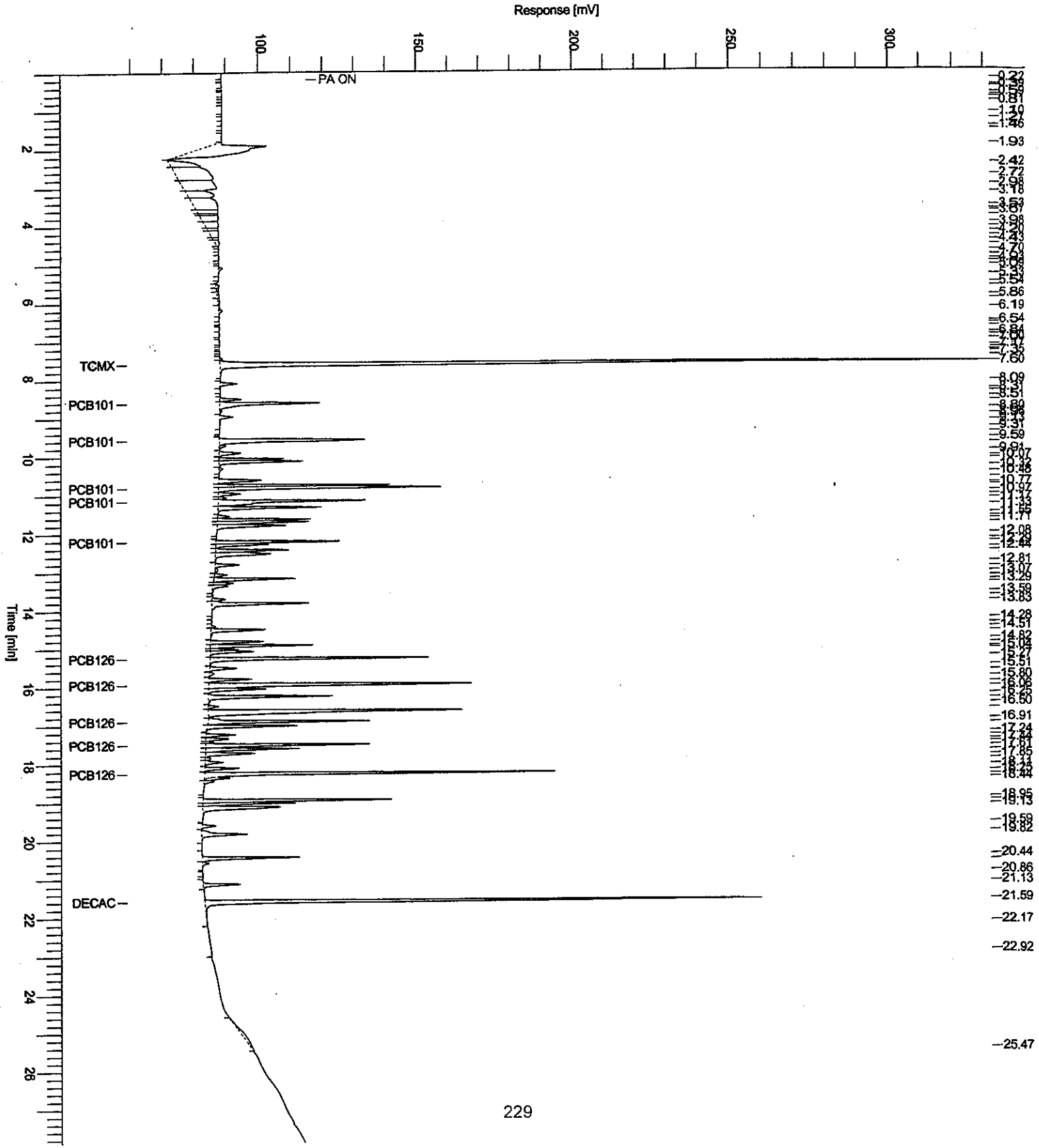
GC 06 Rtx-CLPesticides

ample Name : icv,04ws1423,accu_1660 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc06\cha\243a020.raw
ate : 8/31/04 10:37:24 AM
ethod :
Time of Injection: 8/31/04 12:04:16 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 58.09 mV High Point : 332.16 mV
lot Offset: 58.09 mV Plot Scale: 274.1 mV



GC 06 Rtx-CLPesticides

Sample Name : icv,04ws1423,accu_1660 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\cha\243a020.raw
Date : 8/31/04 9:38:49 AM
Method : gc06fsa1ul Time of Injection: 8/31/04 12:04:16 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 58.77 mV High Point : 332.16 mV
Scale Factor: 1.0 Plot Offset: 58.77 mV Plot Scale: 273.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1423,accu_1660
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 8/31/04 10:39:17 AM
Data Acquisition Time : 8/31/04 12:04:16 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b020p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	1101087.85	51.78	1.0000	1	51.78	10.36
Aroclor-1016	9.373	1194543.21	275.11	1.0000	1	275.11	55.02
Aroclor-1260	16.827	1529353.44	274.39	1.0000	1	274.39	54.88
Decachlorobiphenyl	20.613	554471.16	48.32	1.0000	1	48.32	9.66
		4379455.66	649.60			649.60	129.92

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.237	142050.22	278.94	1.0000	1	278.94	55.79
PCB1016#2	8.712	180499.25	270.20	1.0000	1	270.20	54.04
PCB1016#3	9.373	493678.13	275.19	1.0000	1	275.19	55.04
PCB1016#4	9.624	221903.35	276.66	1.0000	1	276.66	55.33
PCB1016#5	10.751	156412.26	274.98	1.0000	1	274.98	55.00
		1194543.21	1375.97			1375.97	275.19

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	312406.91	271.46	1.0000	1	271.46	54.29
PCB1260#2	14.493	325505.16	264.99	1.0000	1	264.99	53.00
PCB1260#3	15.596	217049.65	282.95	1.0000	1	282.95	56.59
PCB1260#4	16.173	218719.57	276.63	1.0000	1	276.63	55.33
PCB1260#5	16.827	455672.15	278.42	1.0000	1	278.42	55.68
		1529353.44	1374.44			1374.44	274.89

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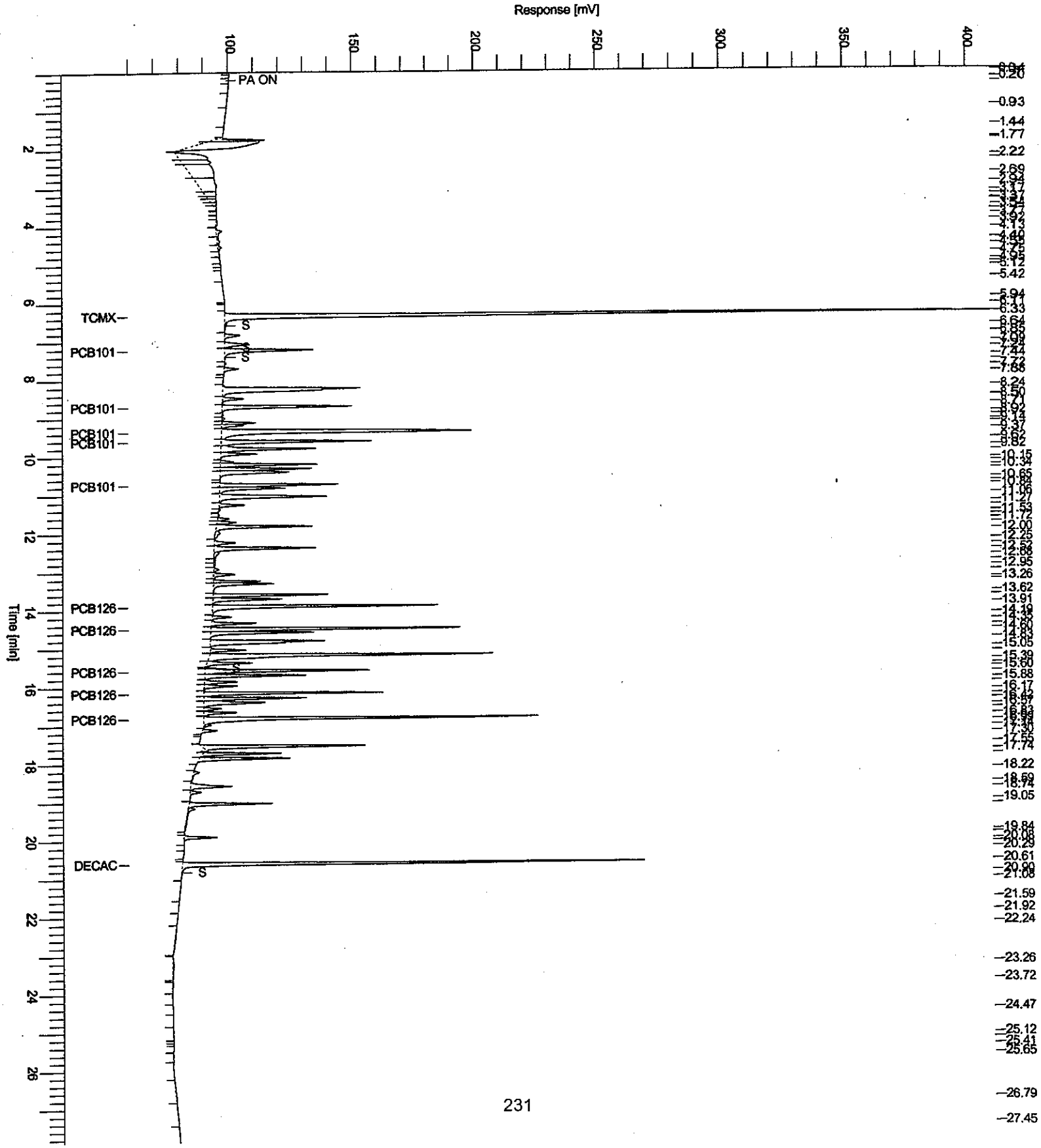
Report stored in ASCII file: G:\gc06\chb\243b020p.TX0

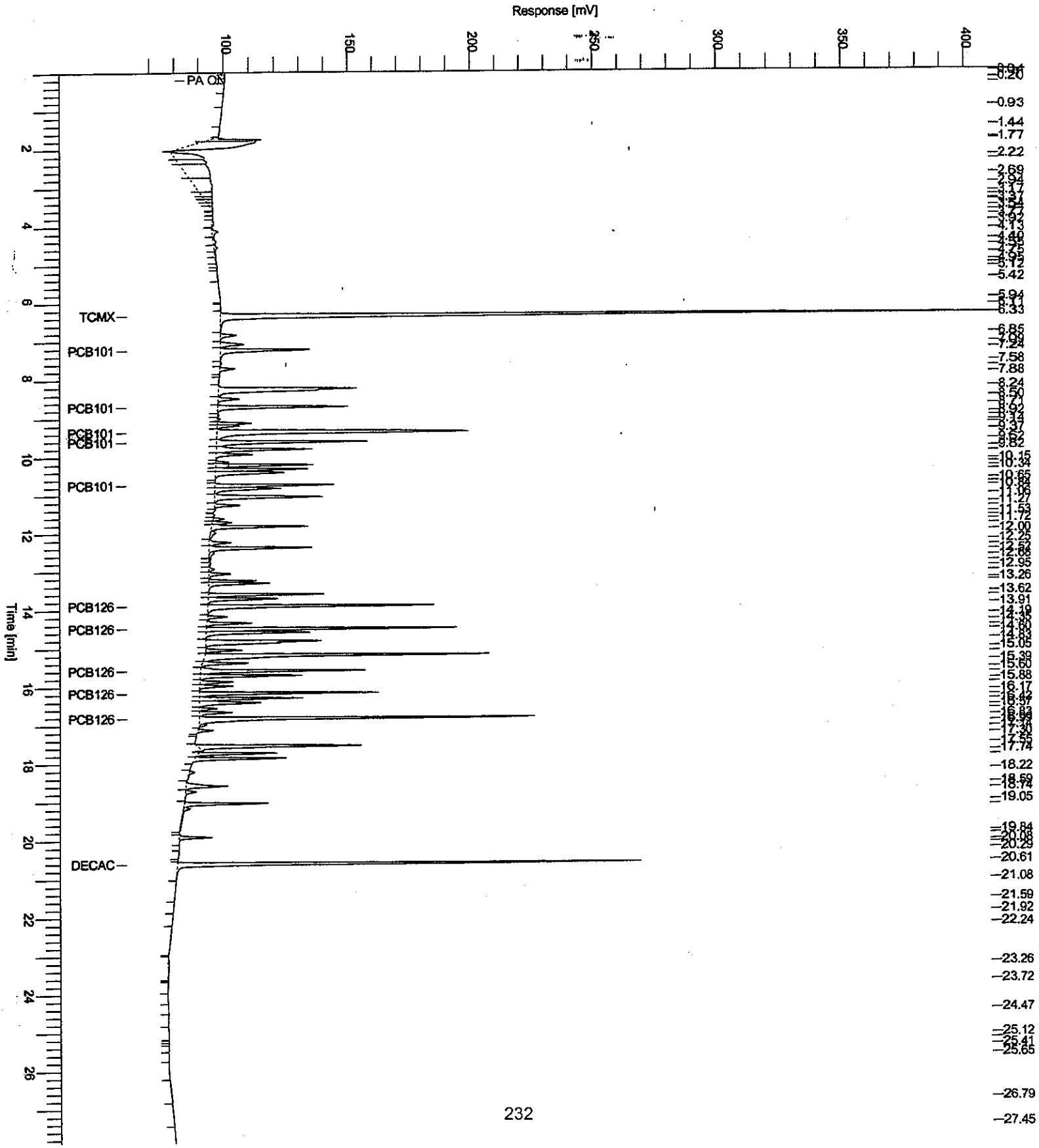
GC 06 Rtx-5

Sample Name : icv,04ws1423,accu_1660 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\chb\243b020.raw
Date : 8/31/04 10:39:24 AM
Method :
Time of Injection: 8/31/04 12:04:16 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 59.89 mV High Point : 409.96 mV
Plot Offset: 59.89 mV Plot Scale: 350.1 mV



GC 06 Rtx-5

Sample Name : icv,04ws1423,accu_1660 Sample #: 250 ug/l
FileName : G:\gc06\chb\243b020
Date : 8/31/04 10:31:44 AM
Method : gc06fsa1ul Time of Injection: 8/31/04 12:04:16 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 60.76 mV High Point : 409.96 mV
Scale Factor: 1.0 Plot Offset: 60.76 mV Plot Scale: 349.2 mV



Turbochrom Method File G:\gc22\files\1260a240.mth
Printed by : analyst on: 8/30/04 1:41:08 PM
Created by : analyst on: 8/30/04 10:38:54 AM
Edited by : analyst on: 8/30/04 1:41:04 PM
Number of Times Edited : 5
Number of Times Calibrated : 161
Description: gc 22

8/30/04

Global Sample Information

Gf 8/30/04

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 8.841 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	6623.00	1621.79	----------	----------	1
2	5.0000	17623.01	3960.04	----------	----------	1
3	20.0000	69704.65	16807.61	----------	----------	1
4	50.0000	153941.58	32641.07	----------	----------	1
5	100.0000	300438.92	64855.50	----------	----------	1
6	150.0000	517893.85	125581.15	----------	----------	1
7	200.0000	627794.08	143318.42	----------	----------	1

Average Calibration Factor = 3285.164399 (%RSD = 6.44)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 9.914 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	608.00	157.78	----------	----------	1
2	25.0000	1498.39	362.84	----------	----------	1
3	100.0000	5963.83	1582.68	----------	----------	1
4	250.0000	14035.48	3274.39	----------	----------	1
5	500.0000	27518.58	6484.30	----------	----------	1
6	750.0000	45231.92	11723.88	----------	----------	1
7	1000.0000	57629.61	13205.88	----------	----------	1

Average Calibration Factor = 58.498847 (%RSD = 3.84)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#3
PCB1016#4
PCB1016#2
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5284.57	1462.13	----------	----------	1
2	25.0000	11934.86	3359.03	----------	----------	1
3	100.0000	47374.32	13914.64	----------	----------	1
4	250.0000	104777.45	29310.84	----------	----------	1
5	500.0000	205091.34	57288.17	----------	----------	1
6	750.0000	349959.08	100570.07	----------	----------	1
7	1000.0000	413362.12	114560.59	----------	----------	1

Average Calibration Factor = 455.551632 (%RSD = 9.57)

PCB1016#2
Component Type : Single Peak Component
Retention Time : 12.228 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1779.98	499.08	----------	----------	1
2	25.0000	4106.90	1162.16	----------	----------	1
3	100.0000	16223.99	4800.12	----------	----------	1
4	250.0000	35312.77	9983.53	----------	----------	1
5	500.0000	68667.67	19473.33	----------	----------	1
6	750.0000	116928.42	34029.38	----------	----------	1
7	1000.0000	137304.88	38227.64	----------	----------	1

Average Calibration Factor = 153.758514 (%RSD = 10.19)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 12.587 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1109.26	314.02	----------	----------	1
2	25.0000	2538.17	720.97	----------	----------	1
3	100.0000	10047.97	2903.77	----------	----------	1
4	250.0000	22118.88	6181.49	----------	----------	1
5	500.0000	43464.84	12157.10	----------	----------	1
6	750.0000	74889.96	21324.25	----------	----------	1
7	1000.0000	87408.94	24516.53	----------	----------	1

Average Calibration Factor = 96.514248 (%RSD = 9.45)

PCB1016#4

Component Type : Single Peak Component
Retention Time : 12.760 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	834.23	225.70	----------	----------	1
2	25.0000	1753.55	510.74	----------	----------	1
3	100.0000	7117.38	2165.56	----------	----------	1
4	250.0000	15711.34	4610.03	----------	----------	1
5	500.0000	30994.71	8984.69	----------	----------	1
6	750.0000	53936.20	15884.61	----------	----------	1
7	1000.0000	62357.76	18187.78	----------	----------	1

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Average Calibration Factor = 69.120818 (%RSD = 11.11)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 13.677 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	953.11	265.55	----------	----------	1
2	25.0000	2037.86	602.33	----------	----------	1
3	100.0000	8021.14	2462.51	----------	----------	1
4	250.0000	17598.98	5261.41	----------	----------	1
5	500.0000	34445.54	10188.75	----------	----------	1
6	750.0000	58972.58	17607.96	----------	----------	1
7	1000.0000	68660.94	20422.77	----------	----------	1

Average Calibration Factor = 77.659206 (%RSD = 12.27)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 16.806 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1417.14	454.73	----------	----------	1
2	25.0000	3592.76	1153.45	----------	----------	1
3	100.0000	15105.15	4797.32	----------	----------	1
4	250.0000	30823.58	9887.64	----------	----------	1
5	500.0000	59200.02	18890.66	----------	----------	1
6	750.0000	102857.00	32753.87	----------	----------	1
7	1000.0000	115183.58	36864.34	----------	----------	1

Average Calibration Factor = 132.928028 (%RSD = 10.45)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 17.499 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2540.46	618.84	----------	----------	1
2	25.0000	5681.46	1384.71	----------	----------	1
3	100.0000	23392.42	5802.12	----------	----------	1
4	250.0000	46992.98	11502.89	----------	----------	1
5	500.0000	89416.45	21643.05	----------	----------	1
6	750.0000	160938.82	38997.23	----------	----------	1
7	1000.0000	174555.05	41452.96	----------	----------	1

Average Calibration Factor = 210.167624 (%RSD = 14.46)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 18.482 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1184.04	369.67	----------	----------	1
2	25.0000	2591.59	856.11	----------	----------	1
3	100.0000	11162.72	3657.76	----------	----------	1
4	250.0000	22557.70	7388.33	----------	----------	1
5	500.0000	43146.14	13879.25	----------	----------	1
6	750.0000	77632.58	25204.38	----------	----------	1
7	1000.0000	84875.09	26768.45	----------	----------	1

Average Calibration Factor = 99.800436 (%RSD = 13.01)

PCB1260#4
Component Type : Single Peak Component
Retention Time : 19.104 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1326.72	417.38	----------	----------	1
2	25.0000	3026.72	982.68	----------	----------	1
3	100.0000	12846.26	4027.85	----------	----------	1
4	250.0000	25879.08	8233.60	----------	----------	1
5	500.0000	49102.00	15535.19	----------	----------	1
6	750.0000	91376.22	28222.40	----------	----------	1
7	1000.0000	95372.62	30425.90	----------	----------	1

Average Calibration Factor = 114.447306 (%RSD = 13.22)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	9424.79	2830.01	----------	----------	1
2	25.0000	21289.50	6471.69	----------	----------	1
3	100.0000	90287.05	27405.10	----------	----------	1
4	250.0000	179922.29	54351.21	----------	----------	1
5	500.0000	342392.17	102589.59	----------	----------	1
6	750.0000	626181.72	188002.39	----------	----------	1
7	1000.0000	667603.32	198765.27	----------	----------	1

Average Calibration Factor = 800.559337 (%RSD = 13.68)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 19.864 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2956.44	969.39	----------	----------	1
2	25.0000	6396.98	2094.73	----------	----------	1
3	100.0000	27780.50	9120.05	----------	----------	1
4	250.0000	53668.95	17338.75	----------	----------	1
5	500.0000	101527.56	32641.45	----------	----------	1
6	750.0000	193377.10	62824.51	----------	----------	1
7	1000.0000	197616.98	63253.62	----------	----------	1

Average Calibration Factor = 243.215944 (%RSD = 15.77)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.372 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	42871.00	15624.44	----------	----------	1
4	50.0000	76494.67	28081.63	----------	----------	1
5	100.0000	158609.05	57851.48	----------	----------	1
6	150.0000	298790.03	107986.54	----------	----------	1
7	200.0000	287516.79	107695.53	----------	----------	1
1	2.0000	4444.21	1686.07	----------	----------	1
2	5.0000	9587.90	3578.48	----------	----------	1

Average Calibration Factor = 1832.676553 (%RSD = 17.10)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6623.00	1621.79	2.0000	---------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17623.01	3960.04	5.0000	--------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69704.65	16807.61	20.0000	---------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153941.58	32641.07	50.0000	---------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
300438.92	64855.50	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
517893.85	125581.15	150.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
627794.08	143318.42	200.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
608.00	157.78	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1498.39	362.84	25.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5963.83	1582.68	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14035.48	3274.39	250.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27518.58	6484.30	500.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45231.92	11723.88	750.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57629.61	13205.88	1000.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : Aroclor-1016

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5284.57	1462.13	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11934.86	3359.03	25.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47374.32	13914.64	100.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
104777.45	29310.84	250.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205091.34	57288.17	500.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
349959.08	100570.07	750.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
413362.12	114560.59	1000.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1016#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1779.98	499.08	10.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4106.90	1162.16	25.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16223.99	4800.12	100.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35312.77	9983.53	250.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68667.67	19473.33	500.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116928.42	34029.38	750.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137304.88	38227.64	1000.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1016#3
Level : 1

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1109.26	314.02	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2538.17	720.97	25.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10047.97	2903.77	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22118.88	6181.49	250.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43464.84	12157.10	500.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74889.96	21324.25	750.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
87408.94	24516.53	1000.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
834.23	225.70	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1753.55	510.74	25.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7117.38	2165.56	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15711.34	4610.03	250.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30994.71	8984.69	500.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53936.20	15884.61	750.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62357.76	18187.78	1000.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
953.11	265.55	10.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2037.86	602.33	25.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8021.14	2462.51	100.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17598.98	5261.41	250.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34445.54	10188.75	500.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58972.58	17607.96	750.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68660.94	20422.77	1000.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1260#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1417.14	454.73	10.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3592.76	1153.45	25.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15105.15	4797.32	100.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30823.58	9887.64	250.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59200.02	18890.66	500.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102857.00	32753.87	750.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115183.58	36864.34	1000.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2540.46	618.84	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5681.46	1384.71	25.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23392.42	5802.12	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46992.98	11502.89	250.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
89416.45	21643.05	500.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160938.82	38997.23	750.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
174555.05	41452.96	1000.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1184.04	369.67	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2591.59	856.11	25.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11162.72	3657.76	100.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22557.70	7388.33	250.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43146.14	13879.25	500.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77632.58	25204.38	750.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84875.09	26768.45	1000.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1260#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1326.72	417.38	10.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3026.72	982.68	25.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12846.26	4027.85	100.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25879.08	8233.60	250.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49102.00	15535.19	500.0000	---------	---------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91376.22	28222.40	750.0000	---------	---------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95372.62	30425.90	1000.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9424.79	2830.01	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21289.50	6471.69	25.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
90287.05	27405.10	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
179922.29	54351.21	250.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
342392.17	102589.59	500.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
626181.72	188002.39	750.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
667603.32	198765.27	1000.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : PCB1260#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2956.44	969.39	10.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6396.98	2094.73	25.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27780.50	9120.05	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53668.95	17338.75	250.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

8/30/04 1:41:08 PM Method: G:\gc22\files\1260a240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101527.56	32641.45	500.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
193377.10	62824.51	750.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
197616.98	63253.62	1000.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42871.00	15624.44	20.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
76494.67	28081.63	50.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
158609.05	57851.48	100.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
298790.03	107986.54	150.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
287516.79	107695.53	200.0000	--------	--------	8/30/04	1:40:57 PM	G:\gc22\CHA\240a020p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4444.21	1686.07	2.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9587.90	3578.48	5.0000	--------	--------	8/30/04	11:32:37 AM	G:\gc22\CHA\240a015p.rst

Turbochrom Method File G:\gc22\files\1260b240.mth
Printed by : analyst on: 8/30/04 11:58:34 AM
Created by : analyst on: 8/30/04 10:43:03 AM
Edited by : analyst on: 8/30/04 11:58:14 AM
Number of Times Edited : 2
Number of Times Calibrated : 165 Inv Ph 8/30/04
Description: gc 22

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

Cf 8/30/04

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 9.157 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	72689.50	15281.71	----------	----------	1
4	50.0000	175847.50	36604.55	----------	----------	1
5	100.0000	341041.24	71341.57	----------	----------	1
6	150.0000	523315.50	108949.80	----------	----------	1
7	200.0000	711223.65	150445.29	----------	----------	1
1	2.0000	7870.13	1697.29	----------	----------	1
2	5.0000	19747.00	4187.40	----------	----------	1

Average Calibration Factor = 3641.598830 (%RSD = 5.94)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 10.088 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	589.00	157.27	----------	----------	1
2	25.0000	1681.98	372.09	----------	----------	1
3	100.0000	5648.36	1337.08	----------	----------	1
4	250.0000	14496.41	3370.03	----------	----------	1
5	500.0000	28780.43	6683.09	----------	----------	1
6	750.0000	43895.78	10035.38	----------	----------	1
7	1000.0000	58548.74	13409.68	----------	----------	1

Average Calibration Factor = 59.326507 (%RSD = 6.06)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 11.660 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1028.00	249.53	----------	----------	1
2	25.0000	2267.50	603.34	----------	----------	1
3	100.0000	8590.67	2266.86	----------	----------	1
4	250.0000	21221.00	5506.02	----------	----------	1
5	500.0000	41595.73	10685.21	----------	----------	1
6	750.0000	62699.51	16153.64	----------	----------	1
7	1000.0000	82782.00	21364.01	----------	----------	1

Average Calibration Factor = 87.694790 (%RSD = 8.19)

Aroclor-1016

Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5763.08	1565.35	----------	----------	1
2	25.0000	14077.17	3867.94	----------	----------	1
3	100.0000	50523.84	14022.31	----------	----------	1
4	250.0000	123998.47	34482.81	----------	----------	1
5	500.0000	244160.53	67131.05	----------	----------	1
6	750.0000	370979.19	101379.59	----------	----------	1
7	1000.0000	479400.03	132986.65	----------	----------	1

Average Calibration Factor = 514.712398 (%RSD = 7.49)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 12.335 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2000.24	557.51	----------	----------	1
2	25.0000	4926.86	1387.24	----------	----------	1
3	100.0000	17957.10	5075.45	----------	----------	1
4	250.0000	43228.40	12291.35	----------	----------	1
5	500.0000	84658.39	23736.04	----------	----------	1
6	750.0000	129492.65	36122.06	----------	----------	1
7	1000.0000	163119.45	46941.89	----------	----------	1

Average Calibration Factor = 179.239473 (%RSD = 7.86)

PCB1016#4

Component Type : Single Peak Component
Retention Time : 12.605 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1275.55	350.60	----------	----------	1
2	25.0000	3079.60	871.51	----------	----------	1
3	100.0000	10637.14	3002.06	----------	----------	1
4	250.0000	25879.50	7565.61	----------	----------	1
5	500.0000	51864.91	14845.68	----------	----------	1
6	750.0000	78454.15	22195.41	----------	----------	1
7	1000.0000	100725.50	29169.02	----------	----------	1

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Average Calibration Factor = 109.955643 (%RSD = 9.76)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 13.768 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	870.28	250.44	----------	----------	1
2	25.0000	2121.24	633.76	----------	----------	1
3	100.0000	7690.56	2340.86	----------	----------	1
4	250.0000	19173.16	5749.80	----------	----------	1
5	500.0000	37261.08	11181.02	----------	----------	1
6	750.0000	56437.11	16873.10	----------	----------	1
7	1000.0000	74224.34	22102.04	----------	----------	1

Average Calibration Factor = 78.495983 (%RSD = 6.65)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 17.000 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2097.50	650.64	----------	----------	1
2	25.0000	4845.99	1495.03	----------	----------	1
3	100.0000	17641.14	5459.93	----------	----------	1
4	250.0000	41368.91	12938.52	----------	----------	1
5	500.0000	78340.52	24341.83	----------	----------	1
6	750.0000	119297.48	36758.37	----------	----------	1
7	1000.0000	153996.93	47662.59	----------	----------	1

Average Calibration Factor = 173.602543 (%RSD = 12.16)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 17.585 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2210.82	722.95	----------	----------	1
2	25.0000	5142.08	1740.89	----------	----------	1
3	100.0000	19260.13	6309.71	----------	----------	1
4	250.0000	44571.80	14963.20	----------	----------	1
5	500.0000	83663.60	28067.02	----------	----------	1
6	750.0000	127629.08	42295.19	----------	----------	1
7	1000.0000	164661.61	55037.56	----------	----------	1

Average Calibration Factor = 185.687829 (%RSD = 11.58)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 18.705 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1369.38	437.54	----------	----------	1
2	25.0000	3277.61	1084.07	----------	----------	1
3	100.0000	11699.87	3828.01	----------	----------	1
4	250.0000	28451.09	9347.74	----------	----------	1
5	500.0000	53674.59	17324.02	----------	----------	1
6	750.0000	82768.31	26307.86	----------	----------	1
7	1000.0000	105252.05	34441.72	----------	----------	1

Average Calibration Factor = 117.400572 (%RSD = 10.32)

PCB1260#4
Component Type : Single Peak Component
Retention Time : 19.303 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1379.00	477.91	----------	----------	1
2	25.0000	3465.82	1200.34	----------	----------	1
3	100.0000	13342.00	4297.57	----------	----------	1
4	250.0000	32366.50	10693.02	----------	----------	1
5	500.0000	60566.00	19938.14	----------	----------	1
6	750.0000	92286.00	30150.48	----------	----------	1
7	1000.0000	119820.00	39706.00	----------	----------	1

Average Calibration Factor = 129.059801 (%RSD = 6.11)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	10808.21	3466.54	----------	----------	1
2	25.0000	25363.20	8250.66	----------	----------	1
3	100.0000	93119.15	29845.93	----------	----------	1
4	250.0000	220525.62	70888.72	----------	----------	1
5	500.0000	413445.47	132682.71	----------	----------	1
6	750.0000	637839.79	202407.35	----------	----------	1
7	1000.0000	827323.71	262960.37	----------	----------	1

Average Calibration Factor = 916.187248 (%RSD = 10.76)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 19.961 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
711223.65	150445.29	200.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7870.13	1697.29	2.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19747.00	4187.40	5.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
589.00	157.27	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1681.98	372.09	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5648.36	1337.08	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14496.41	3370.03	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28780.43	6683.09	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43895.78	10035.38	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58548.74	13409.68	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1028.00	249.53	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2267.50	603.34	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8590.67	2266.86	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21221.00	5506.02	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41595.73	10685.21	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62699.51	16153.64	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82782.00	21364.01	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5763.08	1565.35	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14077.17	3867.94	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50523.84	14022.31	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123998.47	34482.81	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
244160.53	67131.05	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
370979.19	101379.59	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
479400.03	132986.65	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1016#3
Level : 1

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2000.24	557.51	10.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4926.86	1387.24	25.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17957.10	5075.45	100.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43228.40	12291.35	250.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84658.39	23736.04	500.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129492.65	36122.06	750.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
163119.45	46941.89	1000.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1275.55	350.60	10.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3079.60	871.51	25.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10637.14	3002.06	100.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25879.50	7565.61	250.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51864.91	14845.68	500.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78454.15	22195.41	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
100725.50	29169.02	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
870.28	250.44	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2121.24	633.76	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7690.56	2340.86	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19173.16	5749.80	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37261.08	11181.02	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56437.11	16873.10	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74224.34	22102.04	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1260#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2097.50	650.64	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4845.99	1495.03	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17641.14	5459.93	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41368.91	12938.52	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78340.52	24341.83	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119297.48	36758.37	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153996.93	47662.59	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2210.82	722.95	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5142.08	1740.89	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19260.13	6309.71	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44571.80	14963.20	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83663.60	28067.02	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127629.08	42295.19	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
164661.61	55037.56	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1369.38	437.54	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3277.61	1084.07	25.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11699.87	3828.01	100.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28451.09	9347.74	250.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53674.59	17324.02	500.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82768.31	26307.86	750.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
105252.05	34441.72	1000.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1379.00	477.91	10.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3465.82	1200.34	25.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13342.00	4297.57	100.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32366.50	10693.02	250.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60566.00	19938.14	500.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92286.00	30150.48	750.0000	---------	---------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119820.00	39706.00	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10808.21	3466.54	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25363.20	8250.66	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93119.15	29845.93	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220525.62	70888.72	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
413445.47	132682.71	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
637839.79	202407.35	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
827323.71	262960.37	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : PCB1260#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3751.51	1177.50	10.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8631.71	2730.32	25.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31176.00	9950.71	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73767.32	22946.24	250.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137200.76	43011.69	500.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
215858.91	66895.46	750.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
283593.13	86112.50	1000.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48742.61	17833.91	20.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
113130.30	40943.84	50.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
225421.34	82147.04	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
323711.95	117897.43	150.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
442433.09	159502.87	200.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b020p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5997.43	2181.04	2.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b014p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14167.31	5144.22	5.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b015p.rst

8/30/04 11:58:34 AM Method: G:\gc22\files\1260b240.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3751.51	1177.50	----------	----------	1
2	25.0000	8631.71	2730.32	----------	----------	1
3	100.0000	31176.00	9950.71	----------	----------	1
4	250.0000	73767.32	22946.24	----------	----------	1
5	500.0000	137200.76	43011.69	----------	----------	1
6	750.0000	215858.91	66895.46	----------	----------	1
7	1000.0000	283593.13	86112.50	----------	----------	1

Average Calibration Factor = 310.436504 (%RSD = 11.89)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.847 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	48742.61	17833.91	----------	----------	1
4	50.0000	113130.30	40943.84	----------	----------	1
5	100.0000	225421.34	82147.04	----------	----------	1
6	150.0000	323711.95	117897.43	----------	----------	1
7	200.0000	442433.09	159502.87	----------	----------	1
1	2.0000	5997.43	2181.04	----------	----------	1
2	5.0000	14167.31	5144.22	----------	----------	1

Average Calibration Factor = 2450.910552 (%RSD = 13.57)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72689.50	15281.71	20.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b016p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175847.50	36604.55	50.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b017p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
341041.24	71341.57	100.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b018p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
523315.50	108949.80	150.0000	--------	--------	8/30/04	11:57:58 AM	G:\gc22\CHB\240b019p.rst

Level : 7

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: /mcs 8/30/04
Calnum: 254347030001 Name: Type: (normal) Date: 27-AUG-2004 23:50 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	240_014	254347030014	pcb10_2	27-AUG-2004 23:50	04WS0970
2	240_015	254347030015	pcb25_5	28-AUG-2004 00:19	04WS0960
3	240_016	254347030016	pcb100_20	28-AUG-2004 00:47	04WS1424
4	240_017	254347030017	pcb250_50	28-AUG-2004 01:15	04WS1408
5	240_018	254347030018	pcb500_100	28-AUG-2004 01:44	04WS1522
6	240_019	254347030019	pcb750_150	28-AUG-2004 02:12	04WS0964
7	240_020	254347030020	pcb1K200	28-AUG-2004 02:41	04WS0967

~~Only 5 pts~~ used for 1260A #5

changed in turbo chrometo 7 levels mcs 8/30/04

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	60.800	59.936	59.638	56.142	55.037	60.309	57.630	AVRG	R		0.017094		pg	58.499	4	.99	20	
Aroclor-1016 Peak # 2	A	178.00	164.28	162.24	141.25	137.34	155.90	137.30	AVRG	R		0.006504		pg	153.76	10	.99	20	
Aroclor-1016 Peak # 3	A	110.93	101.53	100.48	88.476	86.930	99.853	87.409	AVRG	R		0.010361		pg	96.514	9	.99	20	
Aroclor-1016 Peak # 4	A	83.423	70.142	71.174	62.845	61.989	71.915	62.358	AVRG	R		0.014467		pg	69.121	11	.99	20	
Aroclor-1016 Peak # 5	A	95.311	81.514	80.211	70.396	68.891	78.630	68.661	AVRG	R		0.012877		pg	77.659	12	.99	20	
Aroclor-1260 Peak # 1	A	141.71	143.71	151.05	123.29	118.40	137.14	115.18	AVRG	R		0.007523		pg	132.93	10	.99	20	
Aroclor-1260 Peak # 2	A	254.05	227.26	233.92	187.97	178.83	214.59	174.56	AVRG	R		0.004758		pg	210.17	14	.99	20	
Aroclor-1260 Peak # 3	A	118.40	103.66	111.63	90.231	86.292	103.51	84.875	AVRG	R		0.010020		pg	99.800	13	.99	20	
Aroclor-1260 Peak # 4	A	132.67	121.07	128.46	103.52	98.204	121.83	95.373	AVRG	R		0.008738		pg	114.45	13	.99	20	
Aroclor-1260 Peak # 5	A	295.64	255.88	277.81	214.68	203.06	257.84	197.62	AVRG	R		0.004112		pg	243.22	16	.99	20	
TCMX	A	3311.5	3524.6	3485.2	3078.8	3004.4	3452.6	3139.0	AVRG	R		3.044E-4		pg	3285.2	6	.99	20	
Decachlorobiphenyl	A	2222.1	1917.6	2143.6	1529.9	1586.1	1991.9	1437.6	AVRG	R		5.456E-4		pg	1832.7	17	.99	20	
Aroclor-1016 Peak # 1	B	58.900	67.279	56.484	57.986	57.561	58.528	58.549	AVRG	R		0.016856		pg	59.327	6	.99	20	
Aroclor-1016 Peak # 2	B	102.80	90.700	85.907	84.884	83.191	83.599	82.782	AVRG	R		0.011403		pg	87.695	8	.99	20	
Aroclor-1016 Peak # 3	B	200.02	197.07	179.57	172.91	169.32	172.66	163.12	AVRG	R		0.005579		pg	179.24	8	.99	20	
Aroclor-1016 Peak # 4	B	127.56	123.18	106.37	103.52	103.73	104.61	100.73	AVRG	R		0.009095		pg	109.96	10	.99	20	
Aroclor-1016 Peak # 5	B	87.028	84.850	76.906	76.693	74.522	75.249	74.224	AVRG	R		0.012740		pg	78.496	7	.99	20	
Aroclor-1260 Peak # 1	B	209.75	193.84	176.41	165.48	156.68	159.06	154.00	AVRG	R		0.005760		pg	173.60	12	.99	20	
Aroclor-1260 Peak # 2	B	221.08	205.68	192.60	178.29	167.33	170.17	164.66	AVRG	R		0.005385		pg	185.69	12	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By:
Calnum: 254347030001 Name: Type: (normal) Date: 27-AUG-2004 23:50 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	136.94	131.10	117.00	113.80	107.35	110.36	105.25	AVRG	R		0.008518		pg	117.40	10	.99	20	
Aroclor-1260 Peak # 4	B	137.90	138.63	133.42	129.47	121.13	123.05	119.82	AVRG	R		0.007748		pg	129.06	6	.99	20	
Aroclor-1260 Peak # 5	B	375.15	345.27	311.76	295.07	274.40	287.81	283.59	AVRG	R		0.003221		pg	310.44	12	.99	20	
TCMX	B	3935.1	3949.4	3634.5	3517.0	3410.4	3488.8	3556.1	AVRG	R		2.746E-4		pg	3641.6	6	.99	20	
Decachlorobiphenyl	B	2998.7	2833.5	2437.1	2262.6	2254.2	2158.1	2212.2	AVRG	R		4.080E-4		pg	2450.9	14	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0970,pcb10_2
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 8/30/04 10:58:49 AM
Data Acquisition Time : 8/27/04 11:50:56 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a014p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.841	6623.00	0.1843	1.000	1	0.18	0.04
Aroclor-1016	12.228	5284.57	1.3833	1.000	1	1.38	0.28
Aroclor-1260	19.865	9424.79	1.3176	1.000	1	1.32	0.26
Decachlorobiphenyl	22.371	4444.21	0.2756	1.000	1	0.28	0.06
		25776.57	3.1609			3.16	0.63

GL
8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.915	608.00	1.6103	1.000	1	1.61	0.32
PCB1016#3	12.587	1109.26	0.8556	1.000	1	0.86	0.17
PCB1016#4	12.762	834.23	1.3919	1.000	1	1.39	0.28
PCB1016#2	12.228	1779.98	1.8373	1.000	1	1.84	0.37
PCB1016#5	13.680	953.11	1.6491	1.000	1	1.65	0.33
		5284.57	7.3442			7.34	1.47

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.811	1417.14	1.1728	1.000	1	1.17	0.23
PCB1260#2	17.499	2540.46	1.4649	1.000	1	1.46	0.29
PCB1260#3	18.483	1184.04	1.3127	1.000	1	1.31	0.26
PCB1260#4	19.107	1326.72	1.5054	1.000	1	1.51	0.30
PCB1260#5	19.865	2956.44	1.3821	1.000	1	1.38	0.28
		9424.79	6.8378			6.84	1.37

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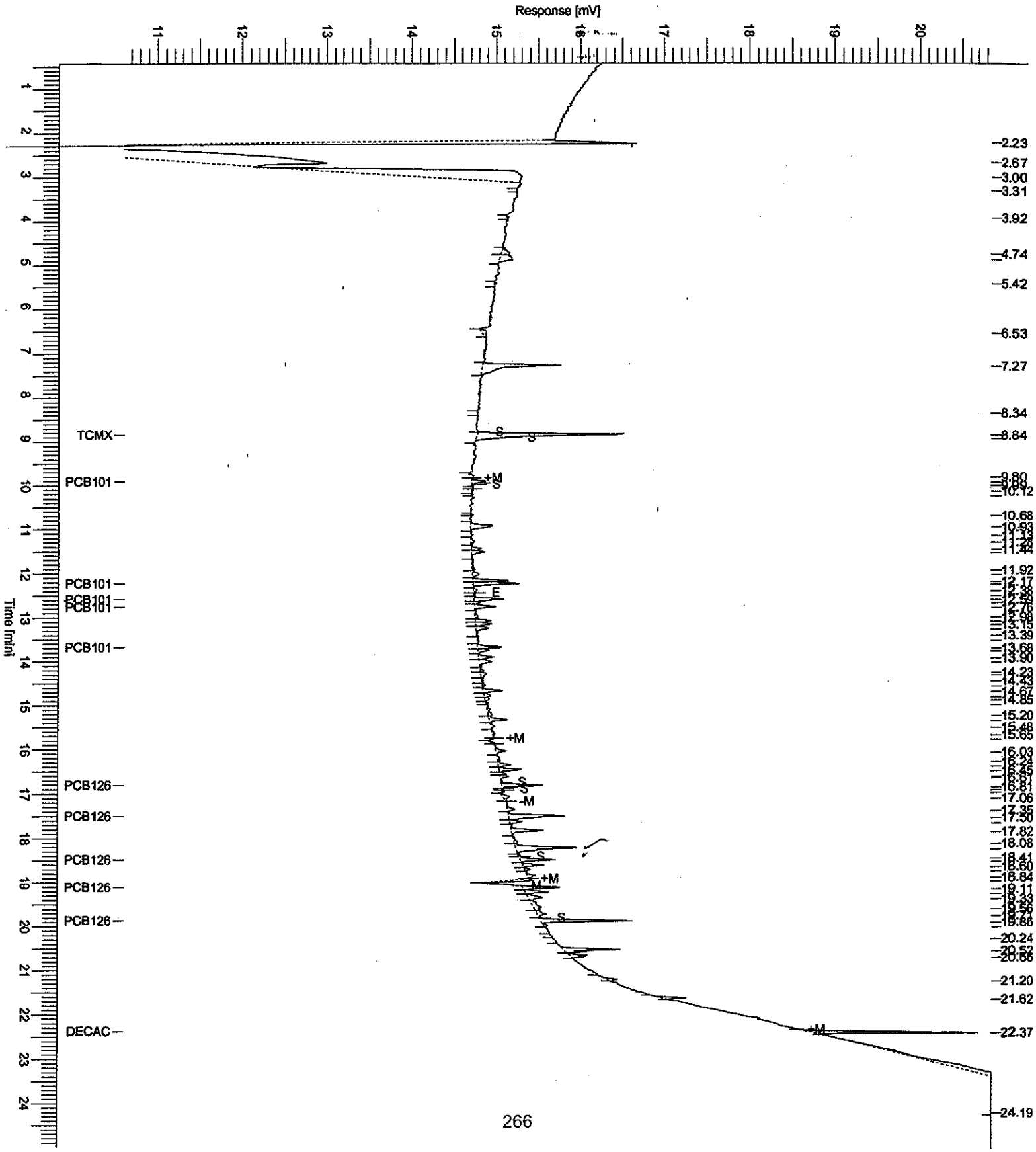
Report stored in ASCII file: G:\gc22\CHA\240a014p.TX0

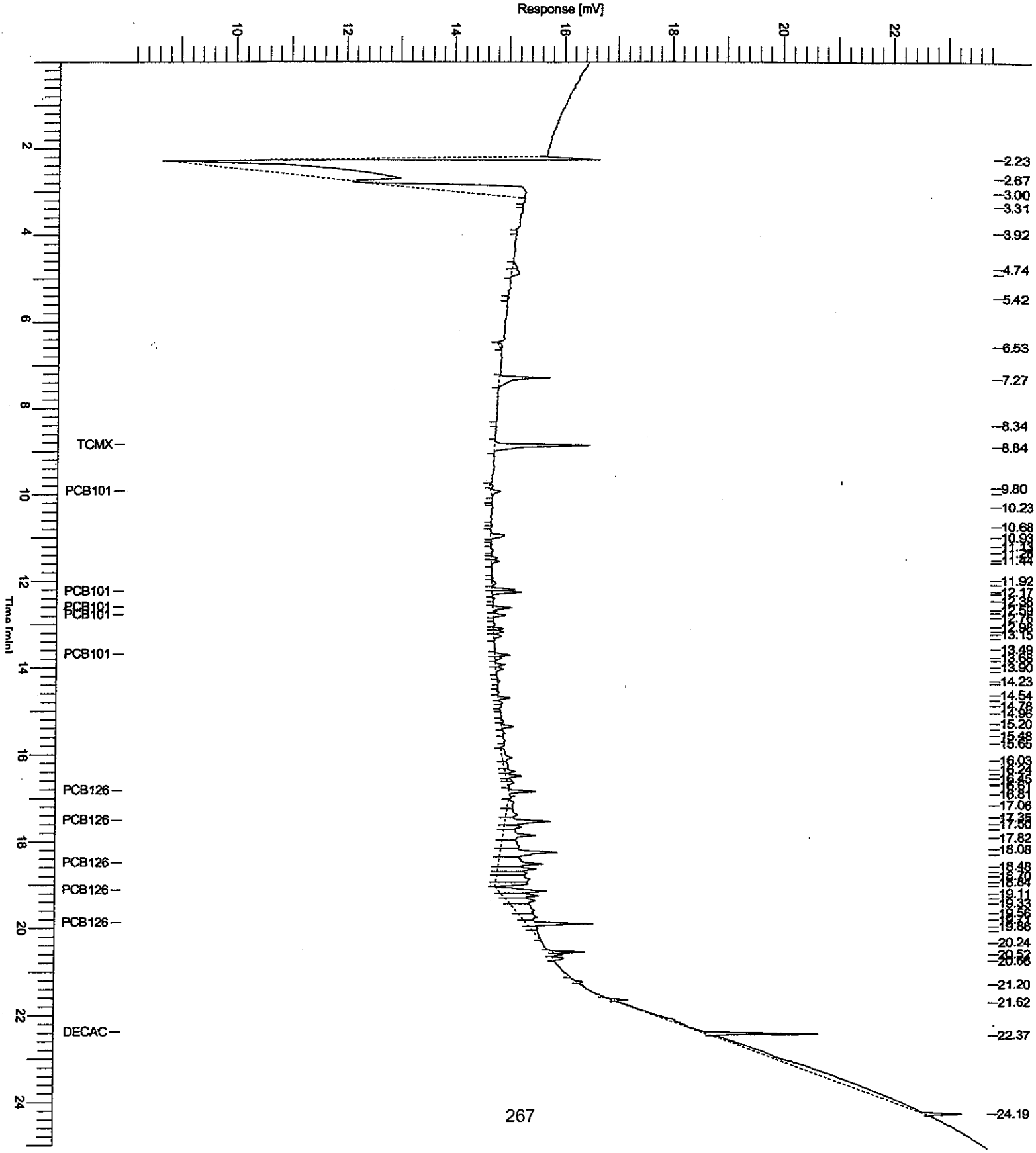
GC22 Rtx-CLPesticides

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc22\CHA\240a014.raw
Date : 8/30/04 10:58:53 AM
Method : Time of Injection: 8/27/04 11:50:56 PM
Start Time : 0.43 min End Time : 25.00 min Low Point : 10.62 mV High Point : 20.84 mV
Plot Offset: 10.62 mV Plot Scale: 10.2 mV



GC22 Rtx-CLPesticides

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc22\CHA\240a014.raw
Date : 8/30/04 10:45:45 AM
Method : gc22ins Time of Injection: 8/27/04 11:50:56 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 8.00 mV High Point : 23.83 mV
Scale Factor: 1.0 Plot Offset: 8.00 mV Plot Scale: 15.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0970,pcb10_2
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 8/30/04 11:44:44 AM
Data Acquisition Time : 8/27/04 11:50:56 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\240b014p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.157	7870.13	4.1971	1.000	1	4.20	0.84
Aroclor-1016	12.340	5763.08	15.8453	1.000	1	15.85	3.17
Aroclor-1260	19.963	10808.21	14.5589	1.000	1	14.56	2.91
Decachlorobiphenyl	22.846	5997.43	7.2360	1.000	1	7.24	1.45
		30438.85	41.8373			41.84	8.37

cf 8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	589.00	11.5304	1.000	1	11.53	2.31
PCB1016#2	11.662	1028.00	15.3376	1.000	1	15.34	3.07
PCB1016#3	12.340	2000.24	18.2392	1.000	1	18.24	3.65
PCB1016#4	12.605	1275.55	22.0157	1.000	1	22.02	4.40
PCB1016#5	13.768	870.28	11.1579	1.000	1	11.16	2.23
		5763.08	78.2808			78.28	15.66

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.000	2097.50	12.3182	1.000	1	12.32	2.46
PCB1260#2	17.585	2210.82	17.1298	1.000	1	17.13	3.43
PCB1260#3	18.705	1369.38	12.6879	1.000	1	12.69	2.54
PCB1260#4	19.303	1379.00	14.9210	1.000	1	14.92	2.98
PCB1260#5	19.963	3751.51	15.4580	1.000	1	15.46	3.09
		10808.21	72.5149			72.51	14.50

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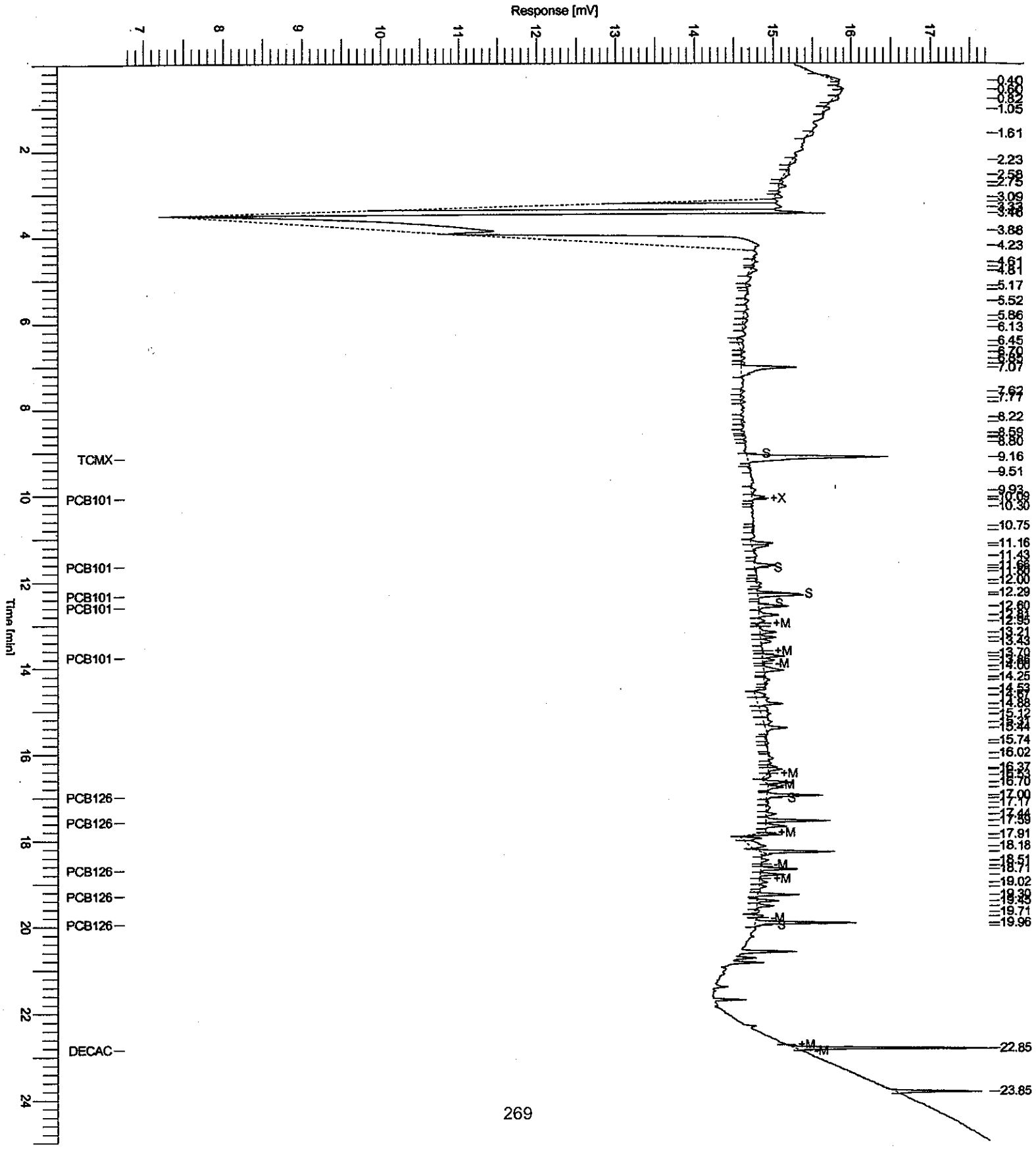
Report stored in ASCII file: G:\gc22\CHB\240b014p.TX0

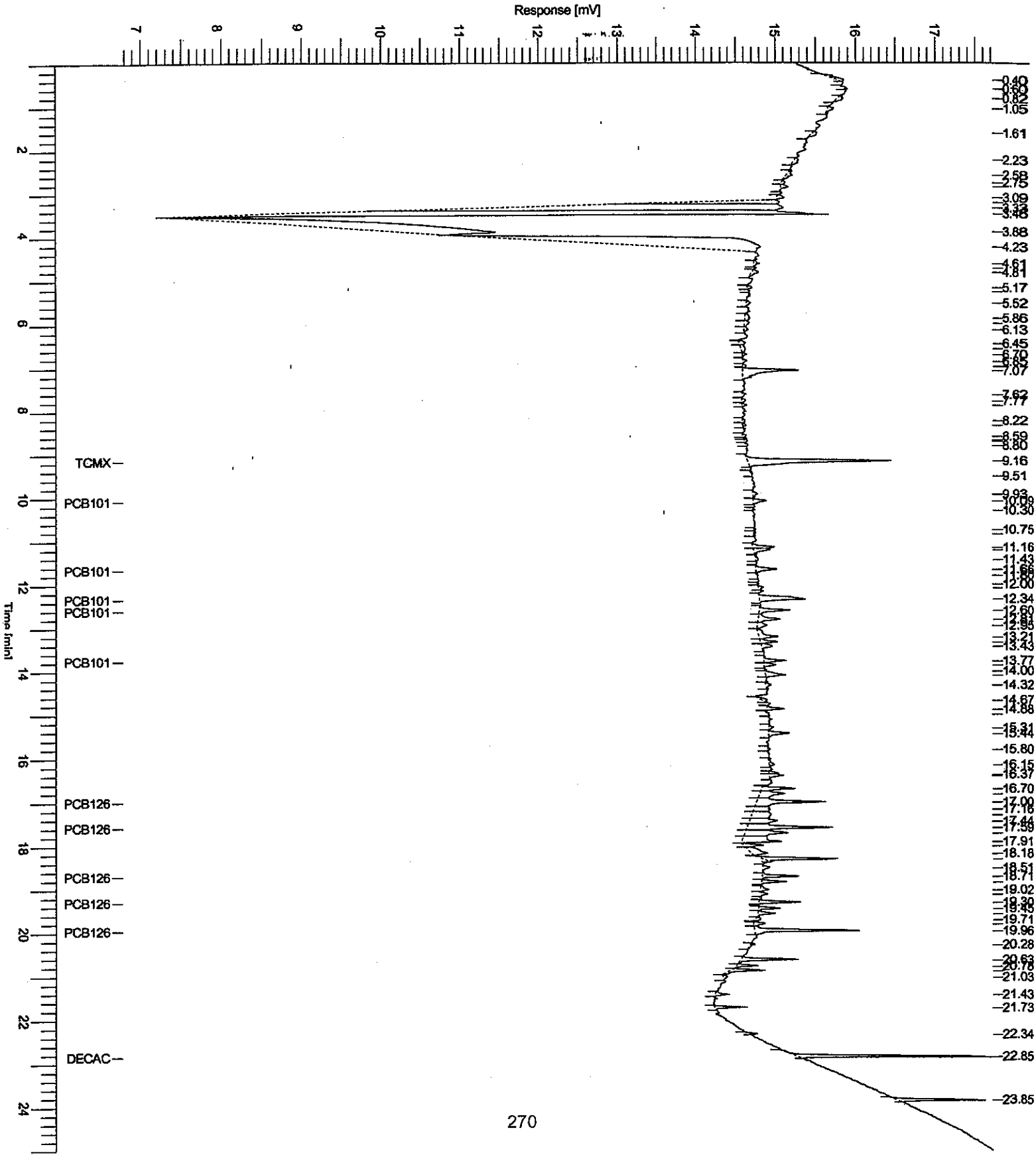
GC22 Rtx-CLPesticides II

Sample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
FileName : G:\gc22\CHb\240b014.raw
Date : 8/30/04 11:44:49 AM
Method :
Time of Injection: 8/27/04 11:50:56 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 6.75 mV High Point : 17.72 mV
Plot Offset: 6.75 mV Plot Scale: 11.0 mV



GC22 Rtx-CLPesticides II

ample Name : ical,04ws0970,pcb10_2 Sample #: level 1 Page 1 of 1
leName : G:\gc22\CHb\240b014
ate : 8/30/04 10:46:17 AM
lethod : gc22ins Time of Injection: 8/27/04 11:50:56 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 6.78 mV High Point : 17.72 mV
cale Factor: 1.0 Plot Offset: 6.78 mV Plot Scale: 10.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0960,pcb25_5
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 8/30/04 11:02:14 AM
Data Acquisition Time : 8/28/04 12:19:17 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a015p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.840	17623.01	0.4904	1.000	1	0.49	0.10
Aroclor-1016	12.227	11934.86	3.1242	1.000	1	3.12	0.62
Aroclor-1260	19.863	21289.50	2.9763	1.000	1	2.98	0.60
Decachlorobiphenyl	22.371	9587.90	0.5946	1.000	1	0.59	0.12
		60435.27	7.1856			7.19	1.44

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8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.915	1498.39	3.9684	1.000	1	3.97	0.79
PCB1016#3	12.586	2538.17	1.9577	1.000	1	1.96	0.39
PCB1016#4	12.756	1753.55	2.9259	1.000	1	2.93	0.59
PCB1016#2	12.227	4106.90	4.2391	1.000	1	4.24	0.85
PCB1016#5	13.673	2037.86	3.5260	1.000	1	3.53	0.71
		11934.86	16.6171			16.62	3.32

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.804	3592.76	2.9733	1.000	1	2.97	0.59
PCB1260#2	17.498	5681.46	3.2761	1.000	1	3.28	0.66
PCB1260#3	18.481	2591.59	2.8731	1.000	1	2.87	0.57
PCB1260#4	19.103	3026.72	3.4344	1.000	1	3.43	0.69
PCB1260#5	19.863	6396.98	2.9904	1.000	1	2.99	0.60
		21289.50	15.5473			15.55	3.11

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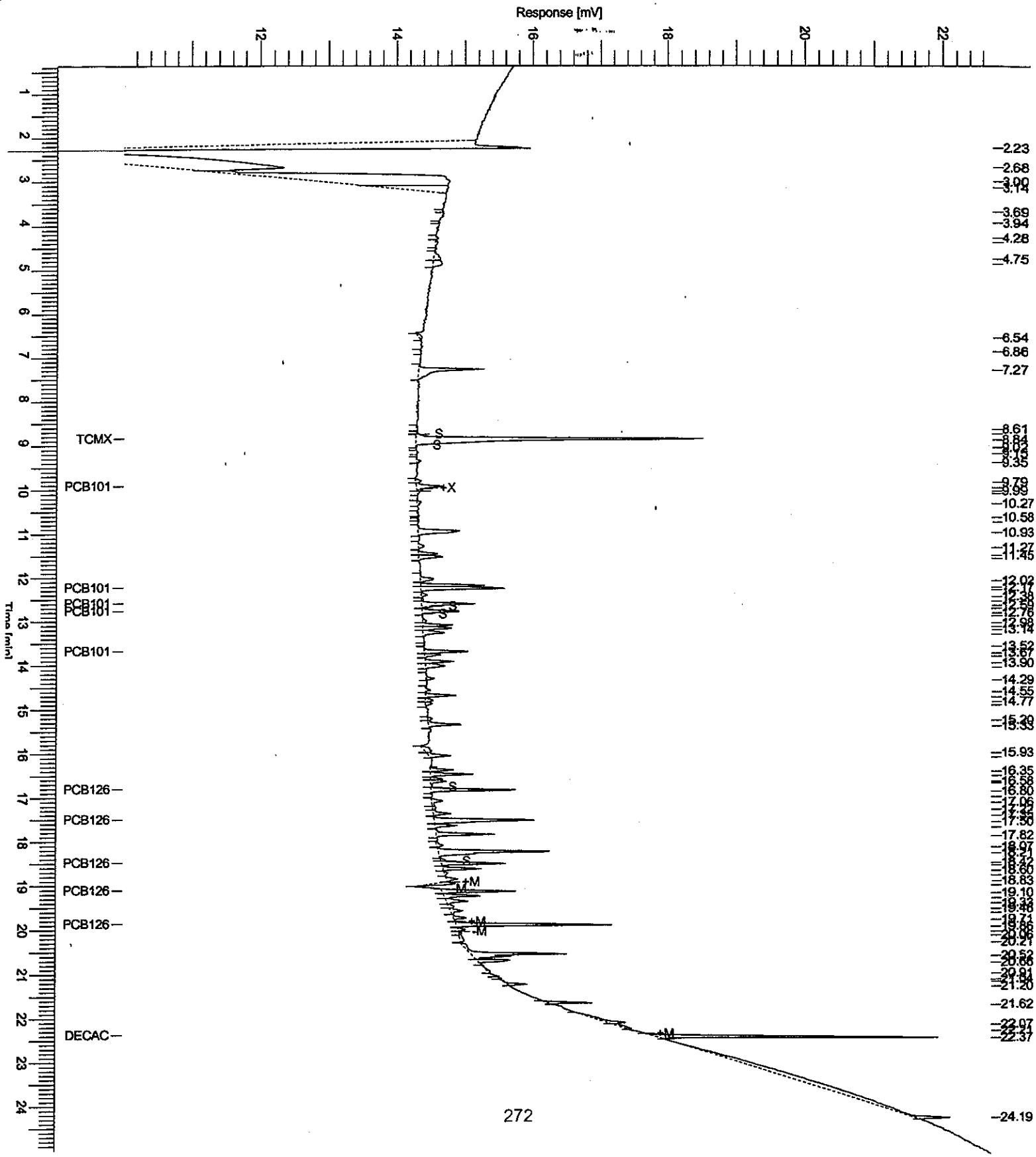
Report stored in ASCII file: G:\gc22\CHA\240a015p.TX0

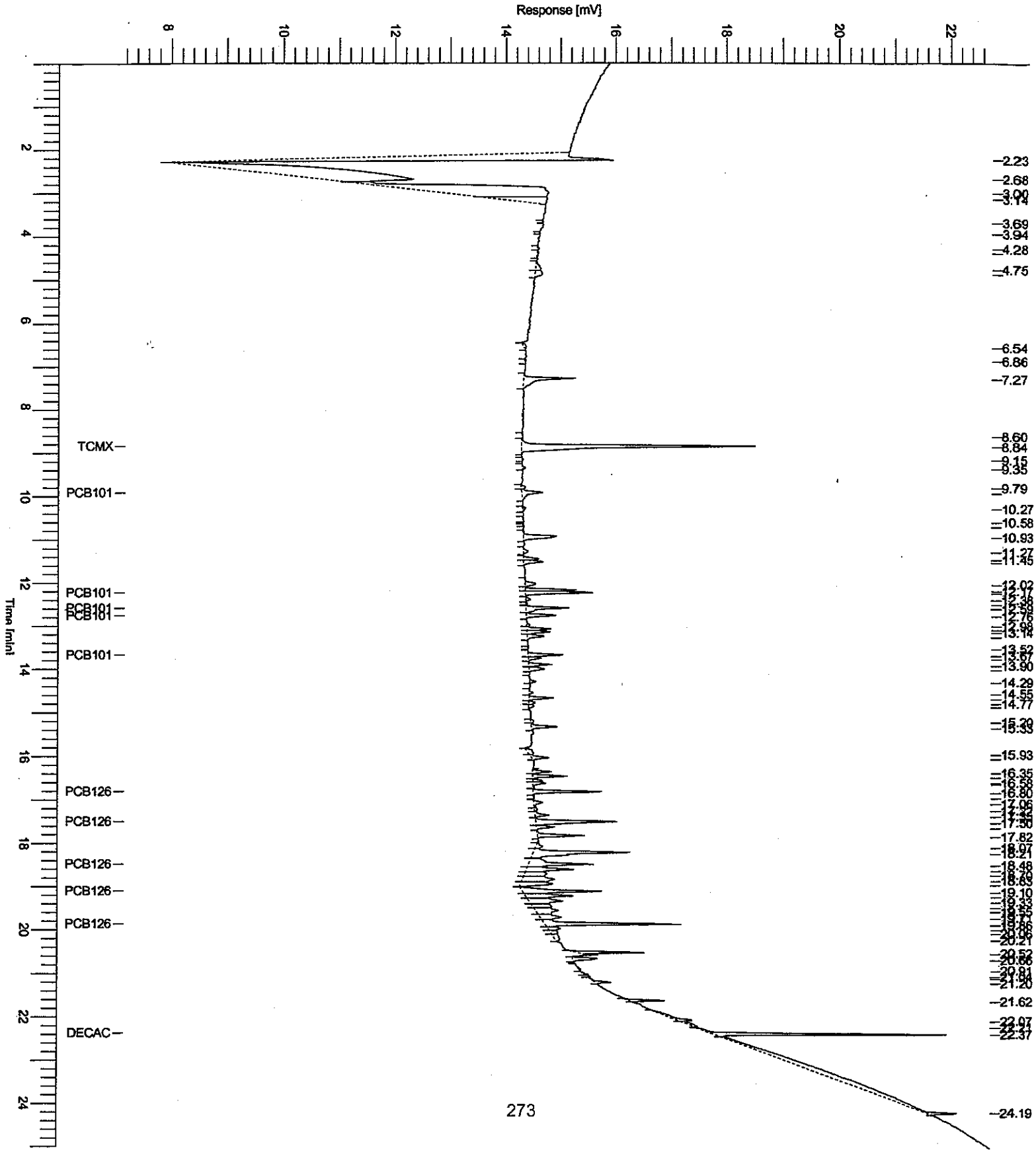
GC22 Rtx-CLPesticides

ample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
ileName : G:\gc22\CHA\240a015.raw
ate : 8/30/04 11:02:20 AM
ethod : Time of Injection: 8/28/04 12:19:17 AM
tart Time : 0.37 min End Time : 25.00 min Low Point : 10.02 mV High Point : 22.75 mV
lot Offset: 10.02 mV Plot Scale: 12.7 mV



GC22 Rtx-CLPesticides

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc22\CHA\240a015.raw
Date : 8/30/04 10:45:50 AM
Method : gc22ins Time of Injection: 8/28/04 12:19:17 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 7.18 mV High Point : 22.75 mV
Scale Factor: 1.0 Plot Offset: 7.18 mV Plot Scale: 15.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0960,pcb25_5
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 8/30/04 11:49:02 AM
Data Acquisition Time : 8/28/04 12:19:17 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\240b015p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.156	19747.00	10.5309	1.000	1	10.53	2.11
Aroclor-1016	12.332	14077.17	38.7044	1.000	1	38.70	7.74
Aroclor-1260	19.956	25363.20	34.1648	1.000	1	34.16	6.83
Decachlorobiphenyl	22.846	14167.31	17.0932	1.000	1	17.09	3.42
		73354.68	100.4933			100.49	20.10

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8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.087	1681.98	32.9267	1.000	1	32.93	6.59
PCB1016#2	11.658	2267.50	33.8308	1.000	1	33.83	6.77
PCB1016#3	12.332	4926.86	44.9255	1.000	1	44.93	8.99
PCB1016#4	12.604	3079.60	53.1529	1.000	1	53.15	10.63
PCB1016#5	13.767	2121.24	27.1963	1.000	1	27.20	5.44
		14077.17	192.0323			192.03	38.41

Group Report For : Aroclor-1260

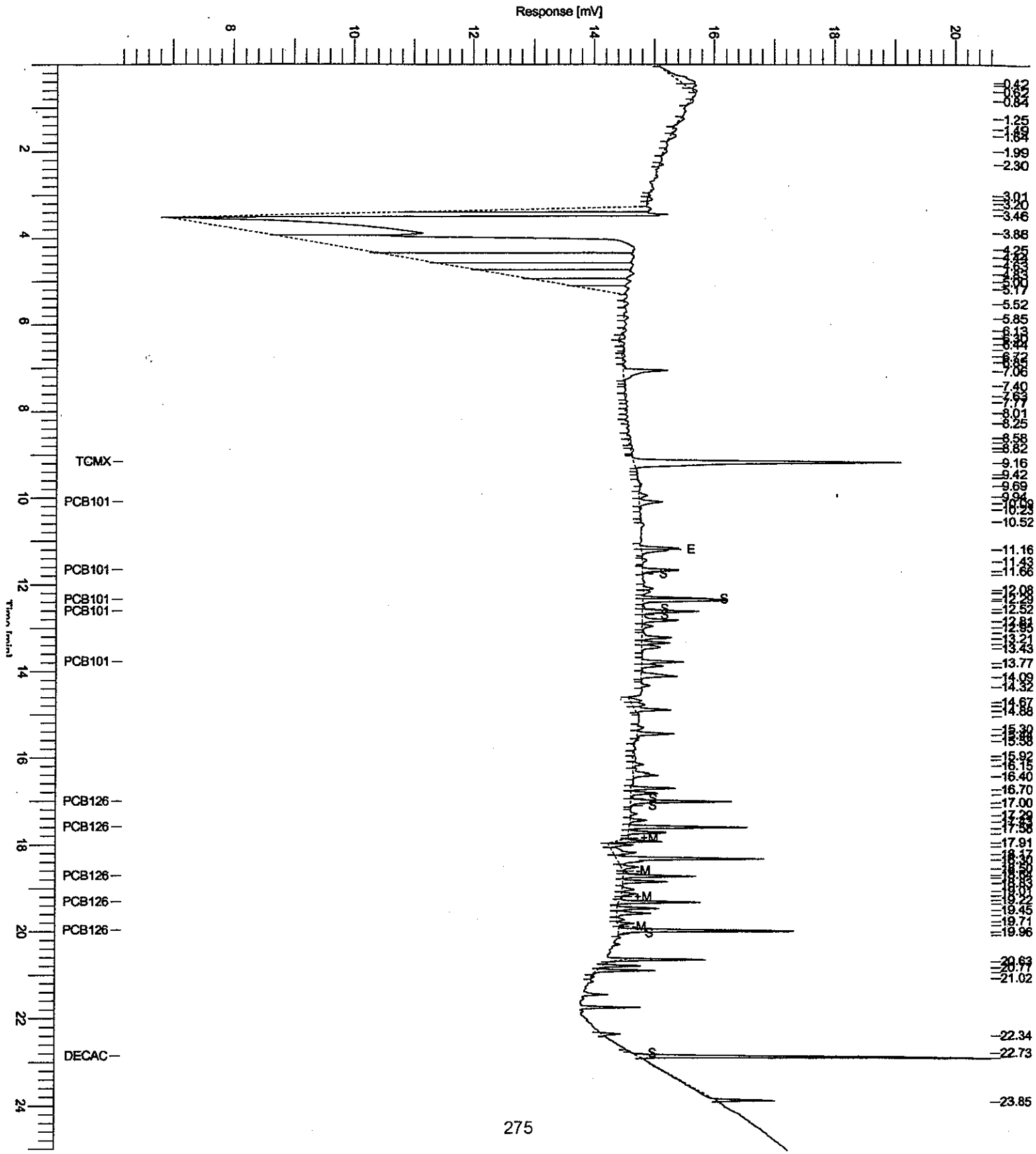
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.999	4845.99	28.4595	1.000	1	28.46	5.69
PCB1260#2	17.583	5142.08	39.8417	1.000	1	39.84	7.97
PCB1260#3	18.703	3277.61	30.3686	1.000	1	30.37	6.07
PCB1260#4	19.301	3465.82	37.5007	1.000	1	37.50	7.50
PCB1260#5	19.956	8631.71	35.5667	1.000	1	35.57	7.11
		25363.20	171.7372			171.74	34.35

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\240b015p.TX0

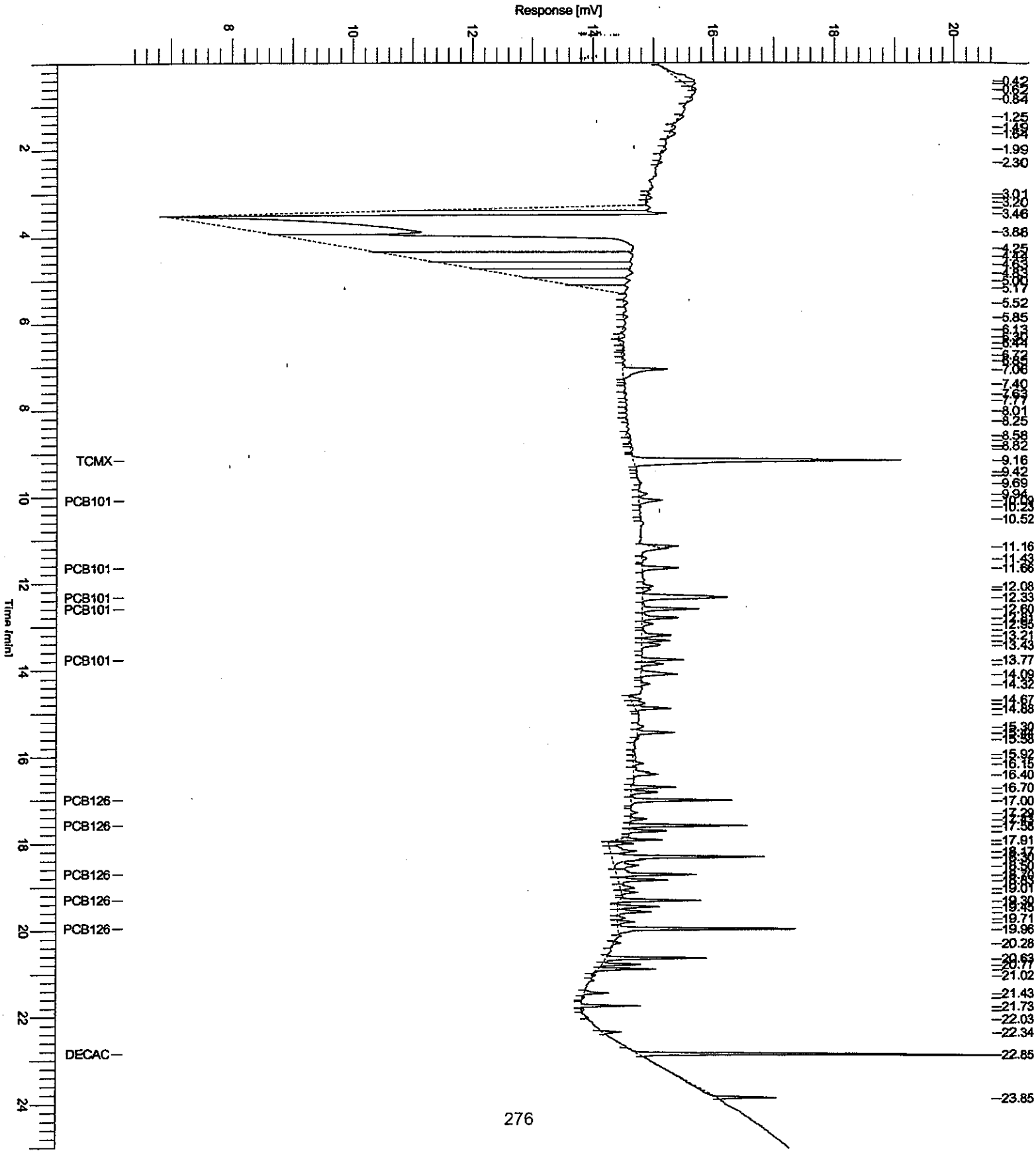
GC22 Rtx-CLPesticides II

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc22\CHb\240b015.raw
Date : 8/30/04 11:49:07 AM
Method : Time of Injection: 8/28/04 12:19:17 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 6.20 mV High Point : 20.63 mV
Plot Offset: 6.20 mV Plot Scale: 14.4 mV



GC22 Rtx-CLPesticides II

Sample Name : ical,04ws0960,pcb25_5 Sample #: level 2 Page 1 of 1
FileName : G:\gc22\CHb\240b015
Date : 8/30/04 10:46:22 AM
Method : gc22ins Time of Injection: 8/28/04 12:19:17 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 6.23 mV High Point : 20.63 mV
Scale Factor: 1.0 Plot Offset: 6.23 mV Plot Scale: 14.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1424,pcb100_20
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 8/30/04 11:04:12 AM
Data Acquisition Time : 8/28/04 12:47:37 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a016p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.840	69704.65	1.9398	1.000	1	1.94	0.39
Aroclor-1016	12.229	47374.32	12.4010	1.000	1	12.40	2.48
Aroclor-1260	19.866	90287.05	12.6224	1.000	1	12.62	2.52
Decachlorobiphenyl	22.371	42871.00	2.6588	1.000	1	2.66	0.53
		250237.02	29.6221			29.62	5.92

GP
8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.914	5963.83	15.7950	1.000	1	15.80	3.16
PCB1016#3	12.588	10047.97	7.7500	1.000	1	7.75	1.55
PCB1016#4	12.763	7117.38	11.8756	1.000	1	11.88	2.38
PCB1016#2	12.229	16223.99	16.7462	1.000	1	16.75	3.35
PCB1016#5	13.680	8021.14	13.8786	1.000	1	13.88	2.78
		47374.32	66.0454			66.05	13.21

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.812	15105.15	12.5005	1.000	1	12.50	2.50
PCB1260#2	17.501	23392.42	13.4887	1.000	1	13.49	2.70
PCB1260#3	18.484	11162.72	12.3754	1.000	1	12.38	2.48
PCB1260#4	19.106	12846.26	14.5766	1.000	1	14.58	2.92
PCB1260#5	19.866	27780.50	12.9868	1.000	1	12.99	2.60
		90287.05	65.9280			65.93	13.19

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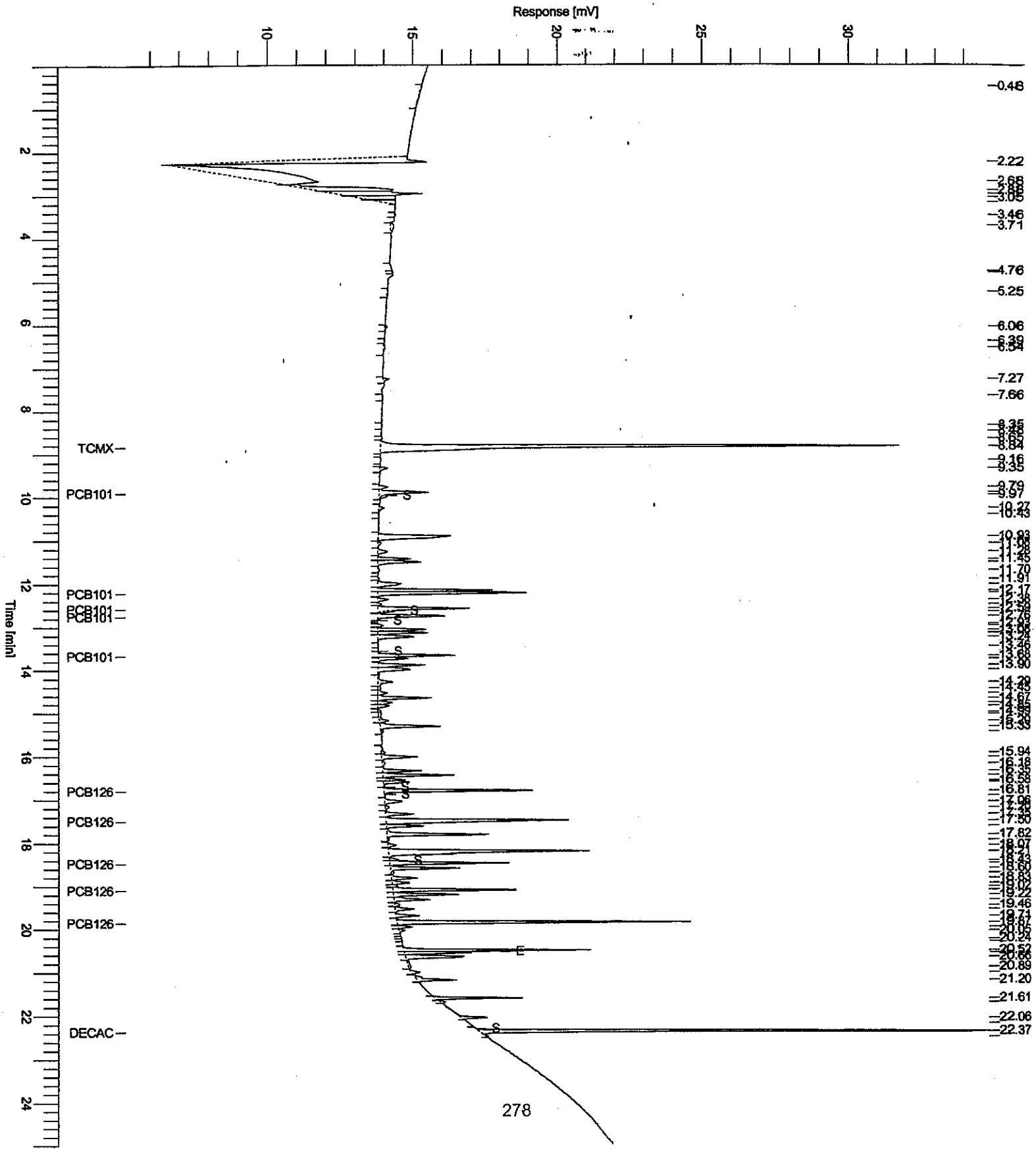
Report stored in ASCII file: G:\gc22\CHA\240a016p.TX0

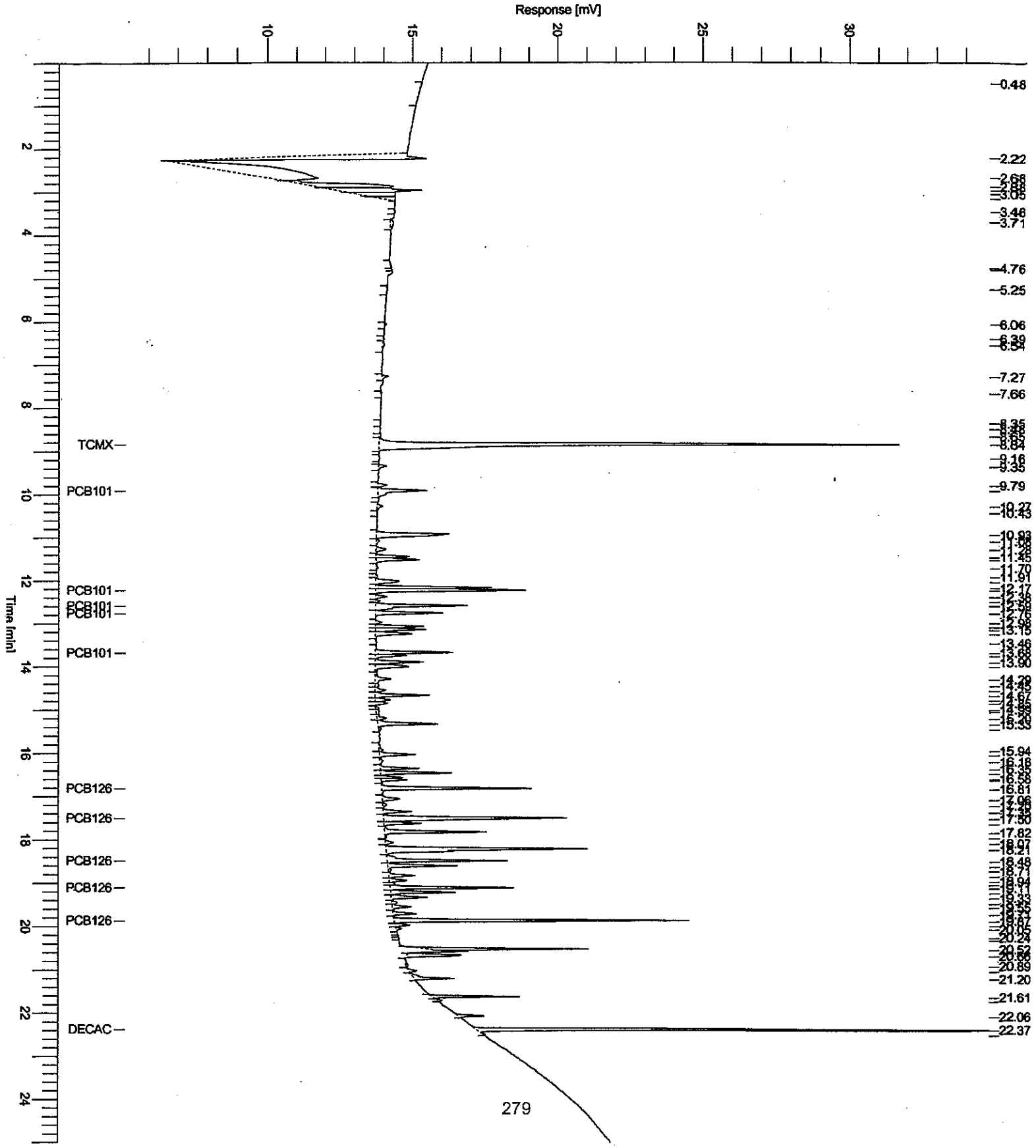
GC22 Rtx-CLPesticides

Sample Name : ical,04ws1424,pcb100_20 Sample #: level 3
FileName : G:\gc22\CHA\240a016.raw
Date : 8/30/04 11:04:17 AM
Method :
Time of Injection: 8/28/04 12:47:37 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.13 mV High Point : 34.83 mV
Plot Offset: 5.13 mV Plot Scale: 29.7 mV



GC22 Rtx-CLPesticides

Sample Name : ical,04ws1424,pcb100_20 Sample #: level 3
FileName : G:\gc22\CHA\240a016.raw
Date : 8/30/04 10:45:55 AM
Method : gc22ins Time of Injection: 8/28/04 12:47:37 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.20 mV High Point : 34.83 mV
Scale Factor: 1.0 Plot Offset: 5.20 mV Plot Scale: 29.6 mV



Software Version	: 6.1.2.0.1:D19	Date	: 8/30/04 11:50:29 AM
Sample Name	: ical,04ws1424,pcb100_20	Data Acquisition Time	: 8/28/04 12:47:37 AM
Instrument Name	: gc22	Channel	: B
Rack/Vial	: 0/0	Operator	: analyst
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 16		

Result File : G:\gc22\CHB\240b016p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.158	72689.50	38.7648	1.000	1	38.76	7.75
Aroclor-1016	12.340	50523.84	138.9124	1.000	1	138.91	27.78
Aroclor-1260	19.964	93119.15	125.4336	1.000	1	125.43	25.09
Decachlorobiphenyl	22.847	48742.61	58.8091	1.000	1	58.81	11.76
		265075.09	361.9199			361.92	72.38

GP 8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.089	5648.36	110.5735	1.000	1	110.57	22.11
PCB1016#2	11.664	8590.67	128.1719	1.000	1	128.17	25.63
PCB1016#3	12.340	17957.10	163.7415	1.000	1	163.74	32.75
PCB1016#4	12.607	10637.14	183.5941	1.000	1	183.59	36.72
PCB1016#5	13.770	7690.56	98.6004	1.000	1	98.60	19.72
		50523.84	684.6814			684.68	136.94

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.002	17641.14	103.6029	1.000	1	103.60	20.72
PCB1260#2	17.586	19260.13	149.2307	1.000	1	149.23	29.85
PCB1260#3	18.712	11699.87	108.4050	1.000	1	108.41	21.68
PCB1260#4	19.306	13342.00	144.3626	1.000	1	144.36	28.87
PCB1260#5	19.964	31176.00	128.4596	1.000	1	128.46	25.69
		93119.15	634.0608			634.06	126.81

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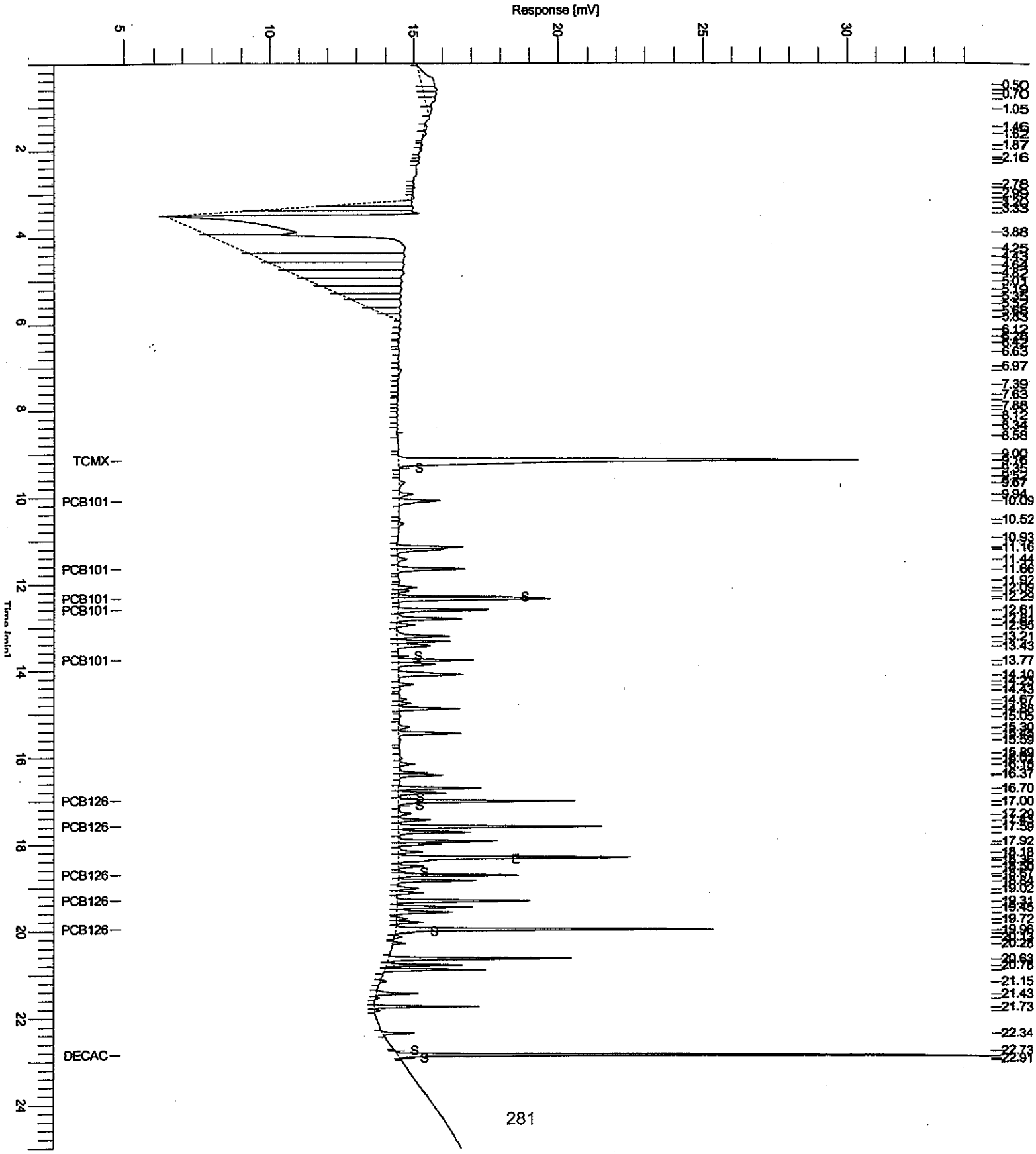
Report stored in ASCII file: G:\gc22\CHB\240b016p.TX0

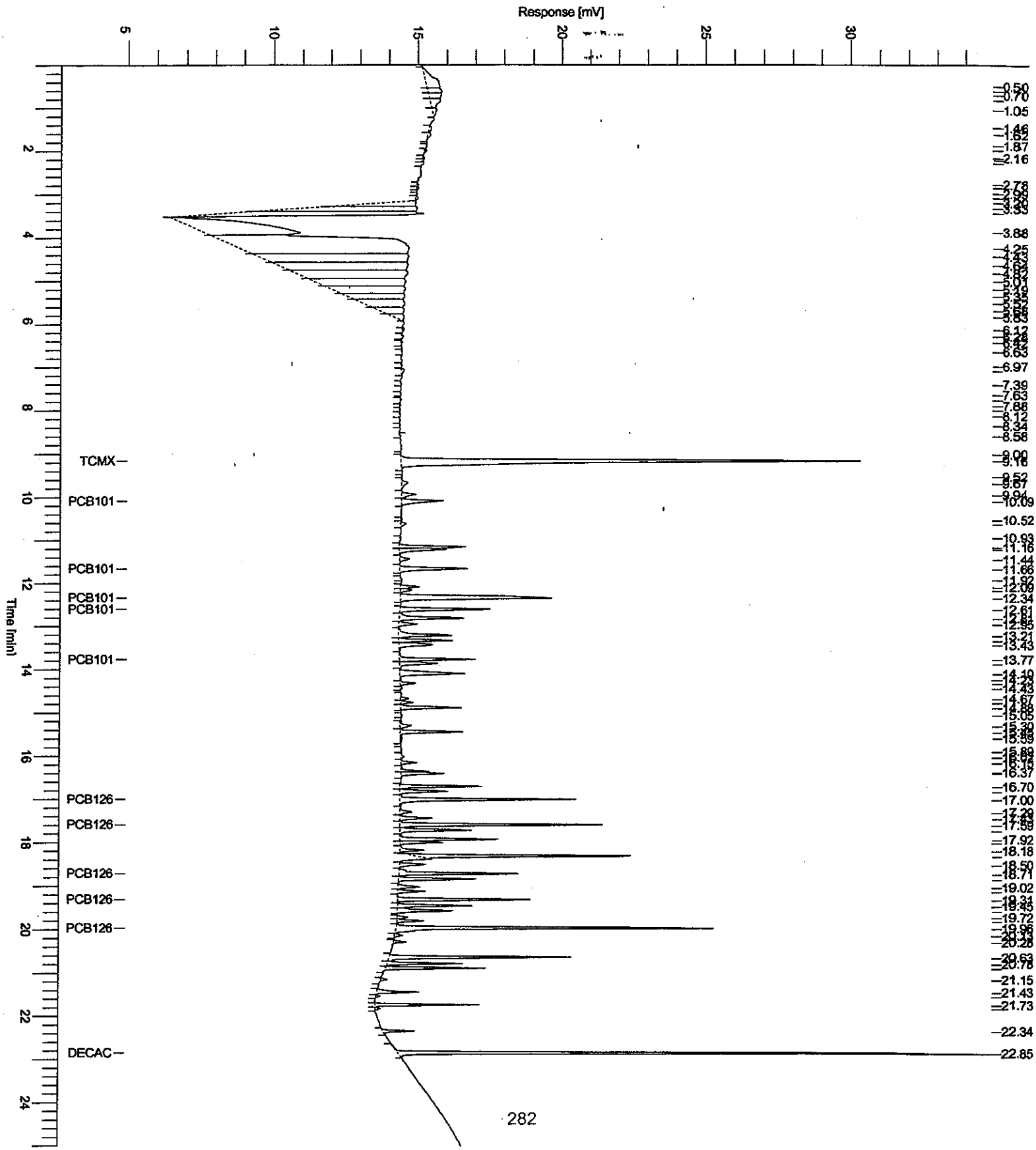
GC22 Rtx-CLPesticides II

ample Name : ical,04ws1424,pcb100_20 Sample #: level 3 Page 1 of 1
leName : G:\gc22\CHb\240b016.raw
ate : 8/30/04 11:50:33 AM
ethod : Time of injection: 8/28/04 12:47:37 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 4.90 mV High Point : 34.95 mV
lot Offset: 4.90 mV Plot Scale: 30.0 mV



GC22 Rtx-CLPesticides II

Sample Name : ical,04ws1424,pcb100_20 Sample #: level 3 Page 1 of 1
FileName : G:\gc22\CHb\240b016
Date : 8/30/04 10:46:27 AM
Method : gc22ins Time of Injection: 8/28/04 12:47:37 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.98 mV High Point : 34.95 mV
Scale Factor: 1.0 Plot Offset: 4.98 mV Plot Scale: 30.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1408,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 8/30/04 11:07:58 AM
Data Acquisition Time : 8/28/04 1:15:58 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a017p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.842	153941.58	4.2841	1.000	1	4.28	0.86
Aroclor-1016	12.228	104777.45	27.4273	1.000	1	27.43	5.49
Aroclor-1260	19.864	179922.29	25.1536	1.000	1	25.15	5.03
Decachlorobiphenyl	22.371	76494.67	4.7442	1.000	1	4.74	0.95
		515135.99	61.6092			61.61	12.32

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.915	14035.48	37.1725	1.000	1	37.17	7.43
PCB1016#3	12.587	22118.88	17.0602	1.000	1	17.06	3.41
PCB1016#4	12.762	15711.34	26.2149	1.000	1	26.21	5.24
PCB1016#2	12.228	35312.77	36.4494	1.000	1	36.45	7.29
PCB1016#5	13.679	17598.98	30.4506	1.000	1	30.45	6.09
		104777.45	147.3477			147.35	29.47

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.805	30823.58	25.5086	1.000	1	25.51	5.10
PCB1260#2	17.499	46992.98	27.0975	1.000	1	27.10	5.42
PCB1260#3	18.481	22557.70	25.0084	1.000	1	25.01	5.00
PCB1260#4	19.103	25879.08	29.3649	1.000	1	29.36	5.87
PCB1260#5	19.864	53668.95	25.0890	1.000	1	25.09	5.02
		179922.29	132.0683			132.07	26.41

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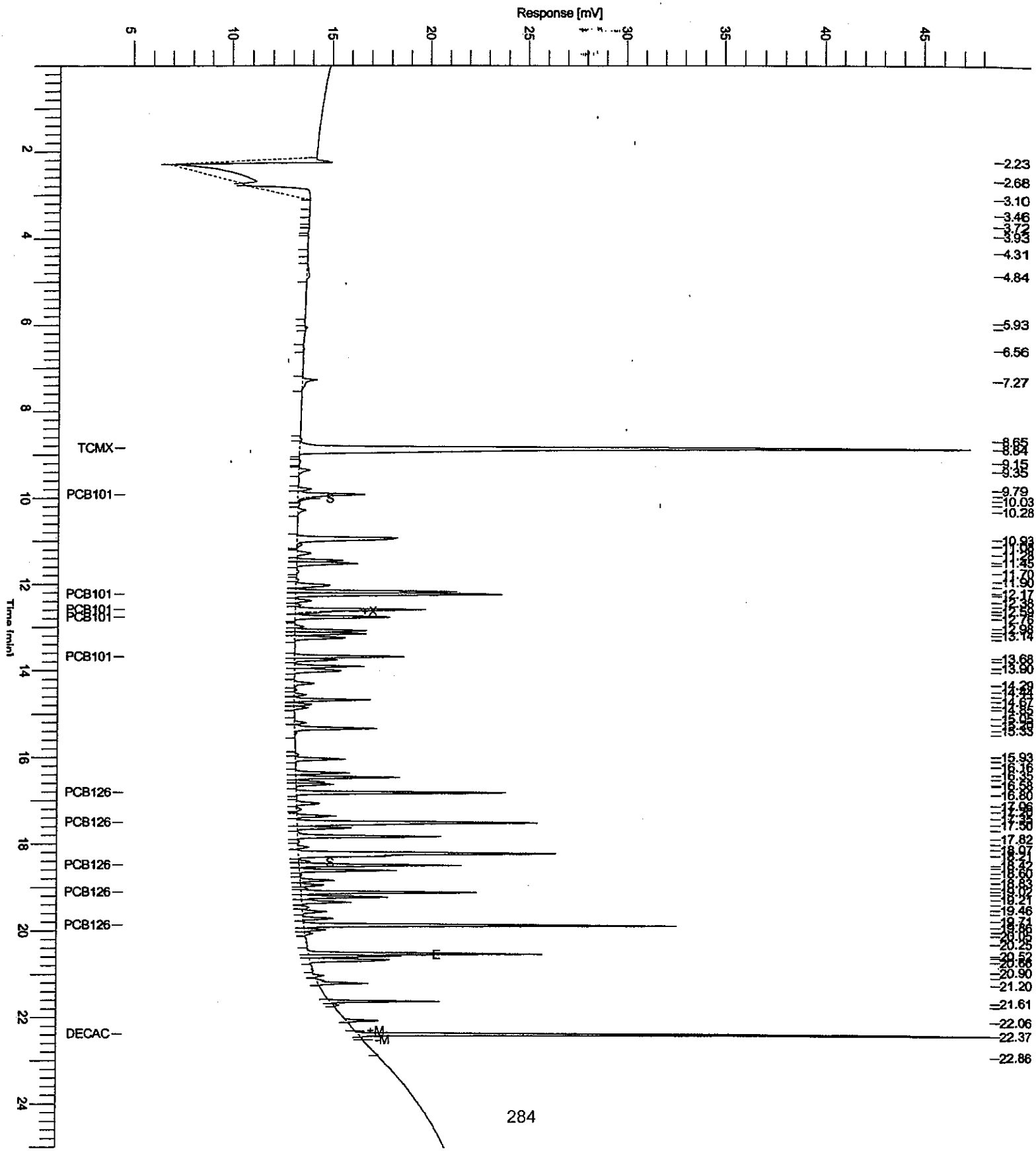
Report stored in ASCII file: G:\gc22\CHA\240a017p.TX0

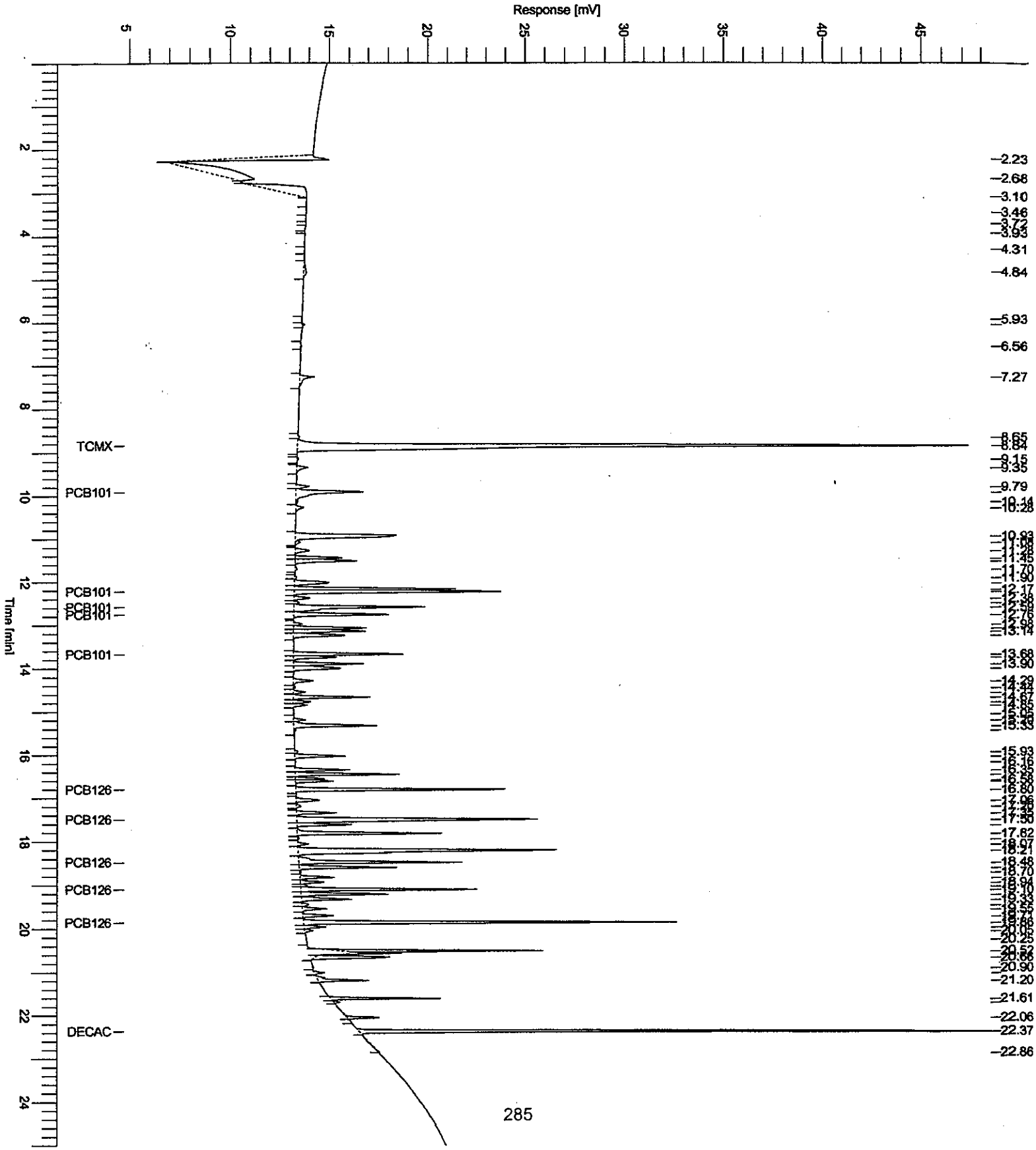
GC22 Rbx-CLPesticides

Sample Name : ical,04ws1408,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc22\CHA\240a017.raw
Date : 8/30/04 11:08:02 AM
Method : Time of Injection: 8/28/04 1:15:58 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.59 mV High Point : 48.52 mV
Plot Offset: 4.59 mV Plot Scale: 43.9 mV



GC22 Rtx-CLPesticides

Sample Name : ical,04ws1408,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc22\CHA\240a017.raw
Date : 8/30/04 10:45:59 AM
Method : gc22ins Time of Injection: 8/28/04 1:15:58 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.70 mV High Point : 48.52 mV
Scale Factor: 1.0 Plot Offset: 4.70 mV Plot Scale: 43.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1408,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 8/30/04 11:51:56 AM
Data Acquisition Time : 8/28/04 1:15:58 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\240b017p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.156	175847.50	93.7782	1.000	1	93.78	18.76
Aroclor-1016	12.332	123998.47	340.9268	1.000	1	340.93	68.19
Aroclor-1260	19.961	220525.62	297.0531	1.000	1	297.05	59.41
Decachlorobiphenyl	22.847	113130.30	136.4943	1.000	1	136.49	27.30
		633501.88	868.2524			868.25	173.65

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	14496.41	283.7850	1.000	1	283.79	56.76
PCB1016#2	11.658	21221.00	316.6149	1.000	1	316.61	63.32
PCB1016#3	12.332	43228.40	394.1774	1.000	1	394.18	78.84
PCB1016#4	12.604	25879.50	446.6728	1.000	1	446.67	89.33
PCB1016#5	13.767	19173.16	245.8185	1.000	1	245.82	49.16
		123998.47	1687.0686			1687.07	337.41

Cf
8/30/04

Group Report For : Aroclor-1260

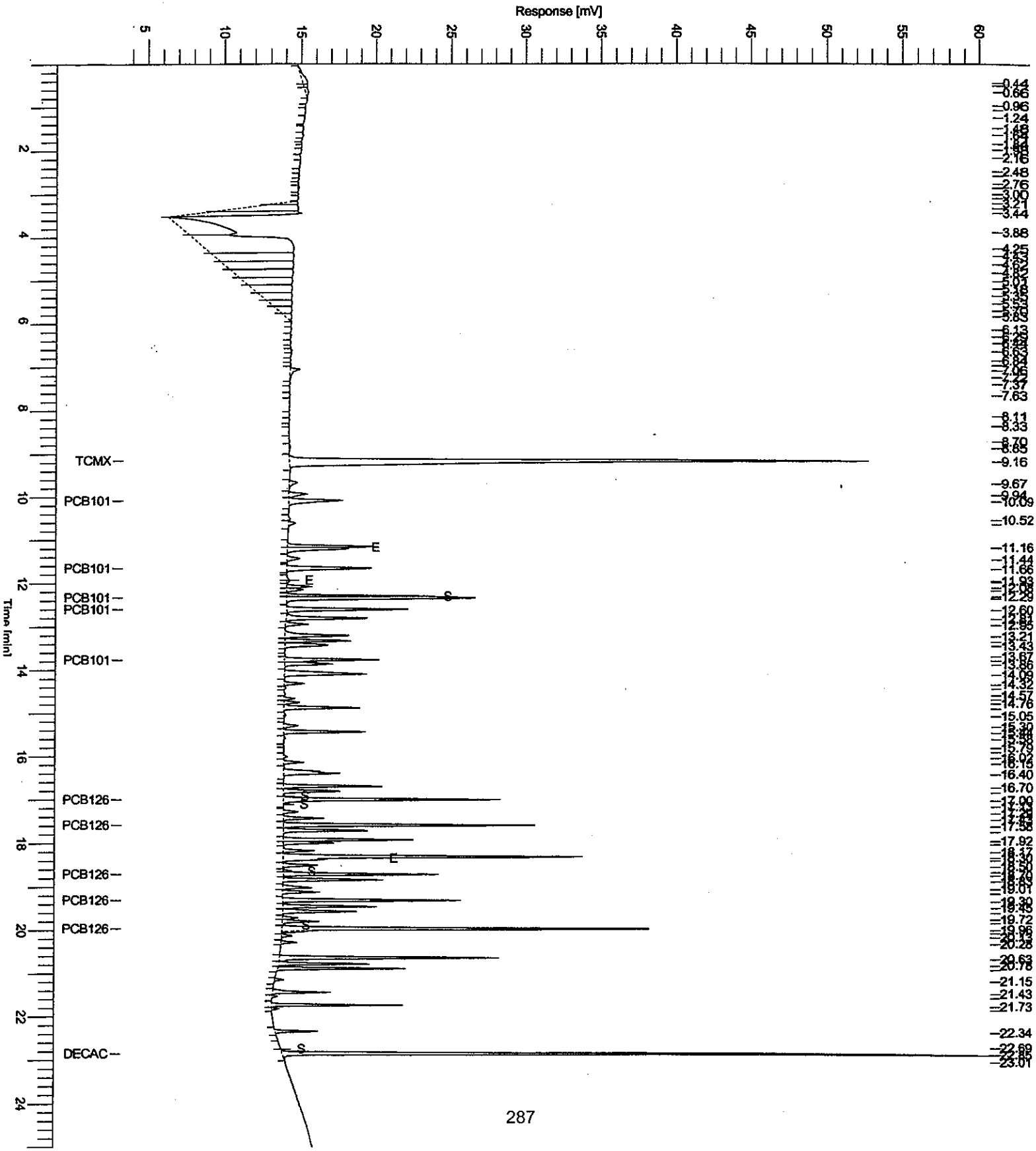
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.000	41368.91	242.9514	1.000	1	242.95	48.59
PCB1260#2	17.584	44571.80	345.3497	1.000	1	345.35	69.07
PCB1260#3	18.704	28451.09	263.6131	1.000	1	263.61	52.72
PCB1260#4	19.303	32366.50	350.2107	1.000	1	350.21	70.04
PCB1260#5	19.961	73767.32	303.9556	1.000	1	303.96	60.79
		220525.62	1506.0806			1506.08	301.22

CURTIS & TOMPKINS LTD

Report stored in ASCII file: G:\gc22\CHB\240b017p.TX0

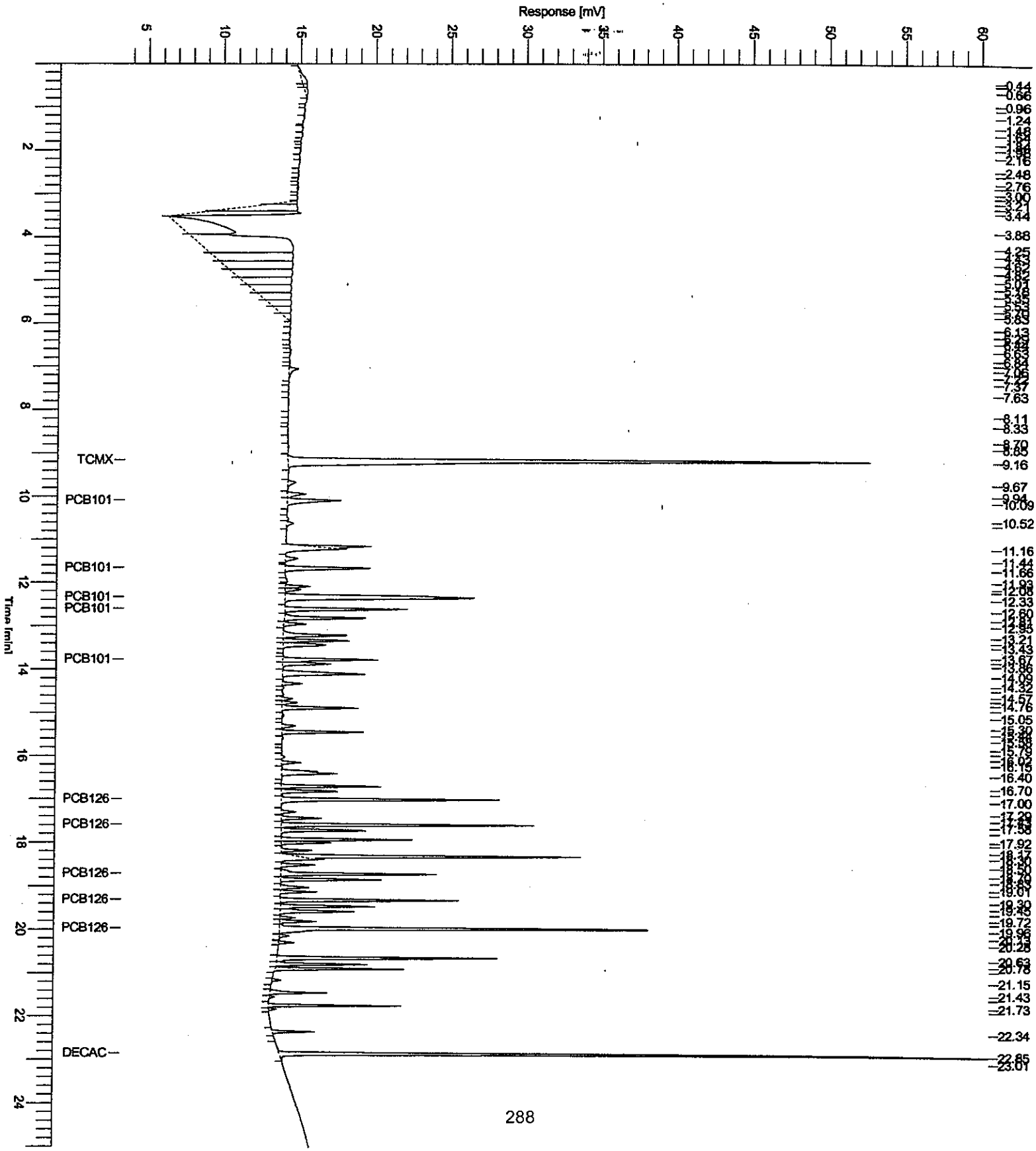
GC22 Rtx-CLPesticides II

ample Name : ical,04ws1408,pcb250_50 Sample #: level 4 Page 1 of 1
ileName : G:\gc22\CHb\240b017.raw
ate : 8/30/04 11:52:02 AM
ethod : Time of Injection: 8/28/04 1:15:58 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.42 mV High Point : 60.89 mV
lot Offset: 3.42 mV Plot Scale: 57.5 mV



GC22 Rtx-CLPesticides II

Sample Name : ical,04ws1408,pcb250_50 Sample #: level 4 Page 1 of 1
FileName : G:\gc22\CHb\240b017
Date : 8/30/04 10:46:31 AM
Method : gc22ins Time of Injection: 8/28/04 1:15:58 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 3.56 mV High Point : 60.89 mV
Scale Factor: 1.0 Plot Offset: 3.56 mV Plot Scale: 57.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1522,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 8/30/04 11:27:04 AM
Data Acquisition Time : 8/28/04 1:44:20 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a018p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.841	300438.92	8.3610	1.000	1	8.36	1.67
Aroclor-1016	12.228	205091.34	53.6862	1.000	1	53.69	10.74
Aroclor-1260	19.863	342392.17	47.8674	1.000	1	47.87	9.57
Decachlorobiphenyl	22.371	158609.05	9.8369	1.000	1	9.84	1.97
		1006531.48	119.7514			119.75	23.95

Cal
8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.914	27518.58	72.8821	1.000	1	72.88	14.58
PCB1016#3	12.587	43464.84	33.5243	1.000	1	33.52	6.70
PCB1016#4	12.761	30994.71	51.7158	1.000	1	51.72	10.34
PCB1016#2	12.228	68667.67	70.8780	1.000	1	70.88	14.18
PCB1016#5	13.674	34445.54	59.5994	1.000	1	59.60	11.92
		205091.34	288.5995			288.60	57.72

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.804	59200.02	48.9921	1.000	1	48.99	9.80
PCB1260#2	17.499	89416.45	51.5600	1.000	1	51.56	10.31
PCB1260#3	18.481	43146.14	47.8335	1.000	1	47.83	9.57
PCB1260#4	19.103	49102.00	55.7158	1.000	1	55.72	11.14
PCB1260#5	19.863	101527.56	47.4619	1.000	1	47.46	9.49
		342392.17	251.5632			251.56	50.31

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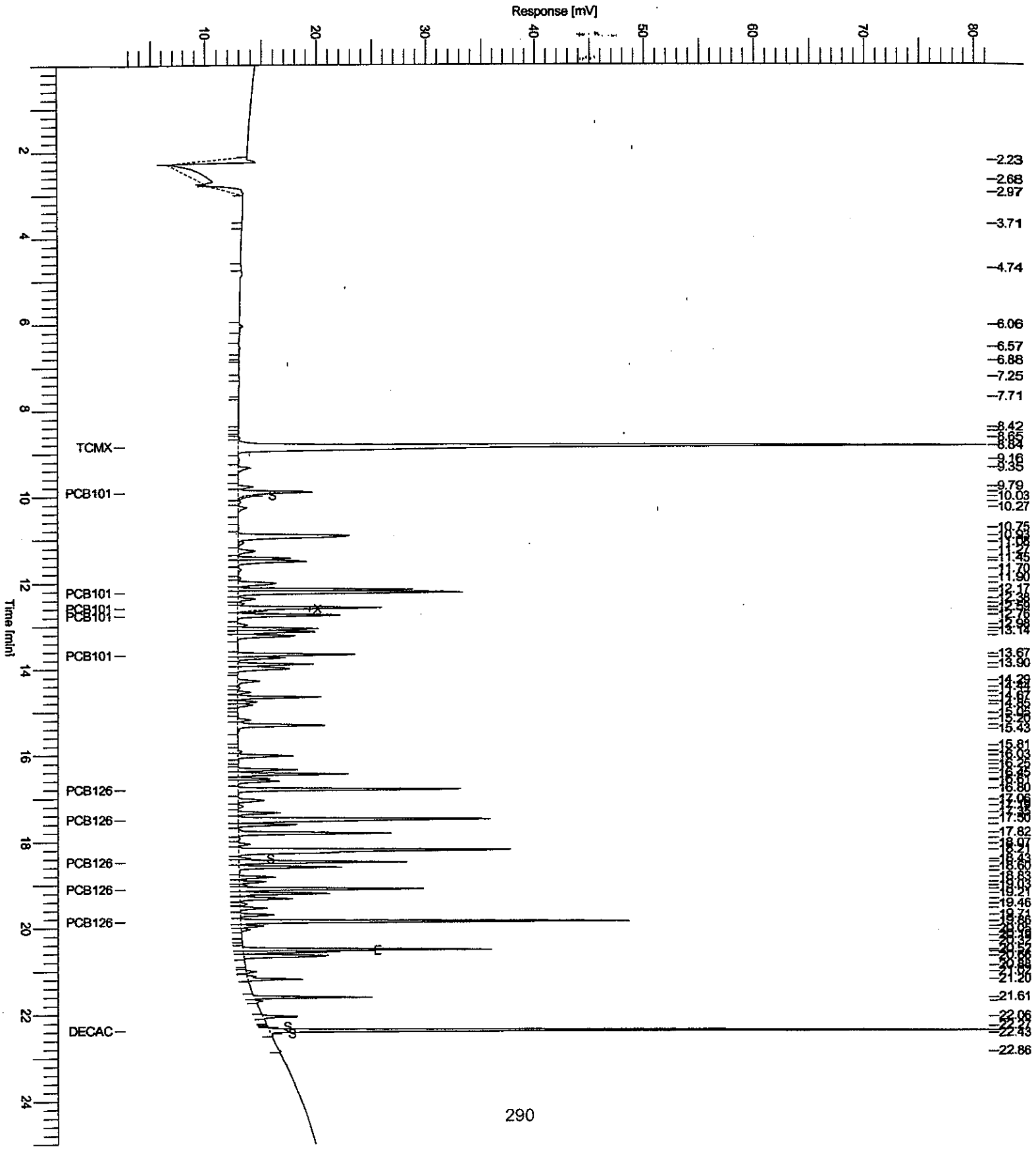
Report stored in ASCII file: G:\gc22\CHA\240a018p.TX0

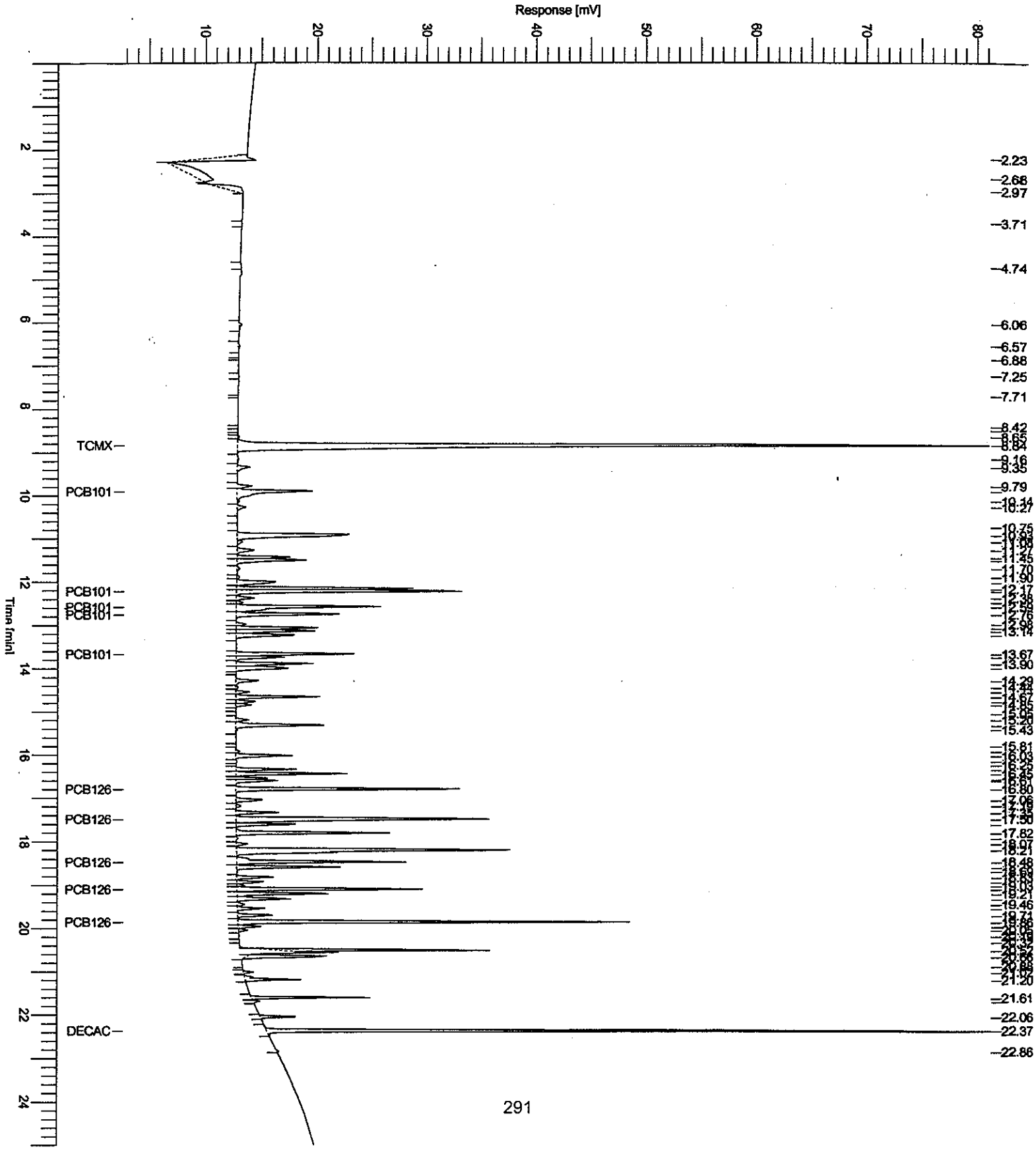
GC22 Rtx-CLPesticides

ample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
ileName : G:\gc22\CHA\240a018.raw
ate : 8/30/04 11:27:09 AM
ethod :
Time of Injection: 8/28/04 1:44:20 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.55 mV High Point : 81.19 mV
lot Offset: 2.55 mV Plot Scale: 78.6 mV



GC22 Rtx-CLPesticides

ample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
ileName : G:\gc22\CHA\240a018.raw
ate : 8/30/04 10:46:03 AM
ethod : gc22ins Time of Injection: 8/28/04 1:44:20 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.75 mV High Point : 81.19 mV
cale Factor: 1.0 Plot Offset: 2.75 mV Plot Scale: 78.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1522,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 8/30/04 11:53:57 AM
Data Acquisition Time : 8/28/04 1:44:20 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\240b018p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.157	341041.24	181.8749	1.000	1	181.87	36.37
Aroclor-1016	12.332	244160.53	671.3056	1.000	1	671.31	134.26
Aroclor-1260	19.962	413445.47	556.9205	1.000	1	556.92	111.38
Decachlorobiphenyl	22.847	225421.34	271.9760	1.000	1	271.98	54.40
		1224068.57	1682.0770			1682.08	336.42

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	28780.43	563.4122	1.000	1	563.41	112.68
PCB1016#2	11.658	41595.73	620.6036	1.000	1	620.60	124.12
PCB1016#3	12.332	84658.39	771.9559	1.000	1	771.96	154.39
PCB1016#4	12.604	51864.91	895.1736	1.000	1	895.17	179.03
PCB1016#5	13.768	37261.08	477.7232	1.000	1	477.72	95.54
		244160.53	3328.8685			3328.87	665.77

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.000	78340.52	460.0784	1.000	1	460.08	92.02
PCB1260#2	17.584	83663.60	648.2394	1.000	1	648.24	129.65
PCB1260#3	18.704	53674.59	497.3211	1.000	1	497.32	99.46
PCB1260#4	19.303	60566.00	655.3338	1.000	1	655.33	131.07
PCB1260#5	19.962	137200.76	565.3309	1.000	1	565.33	113.07
		413445.47	2826.3036			2826.30	565.26

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8/30/04

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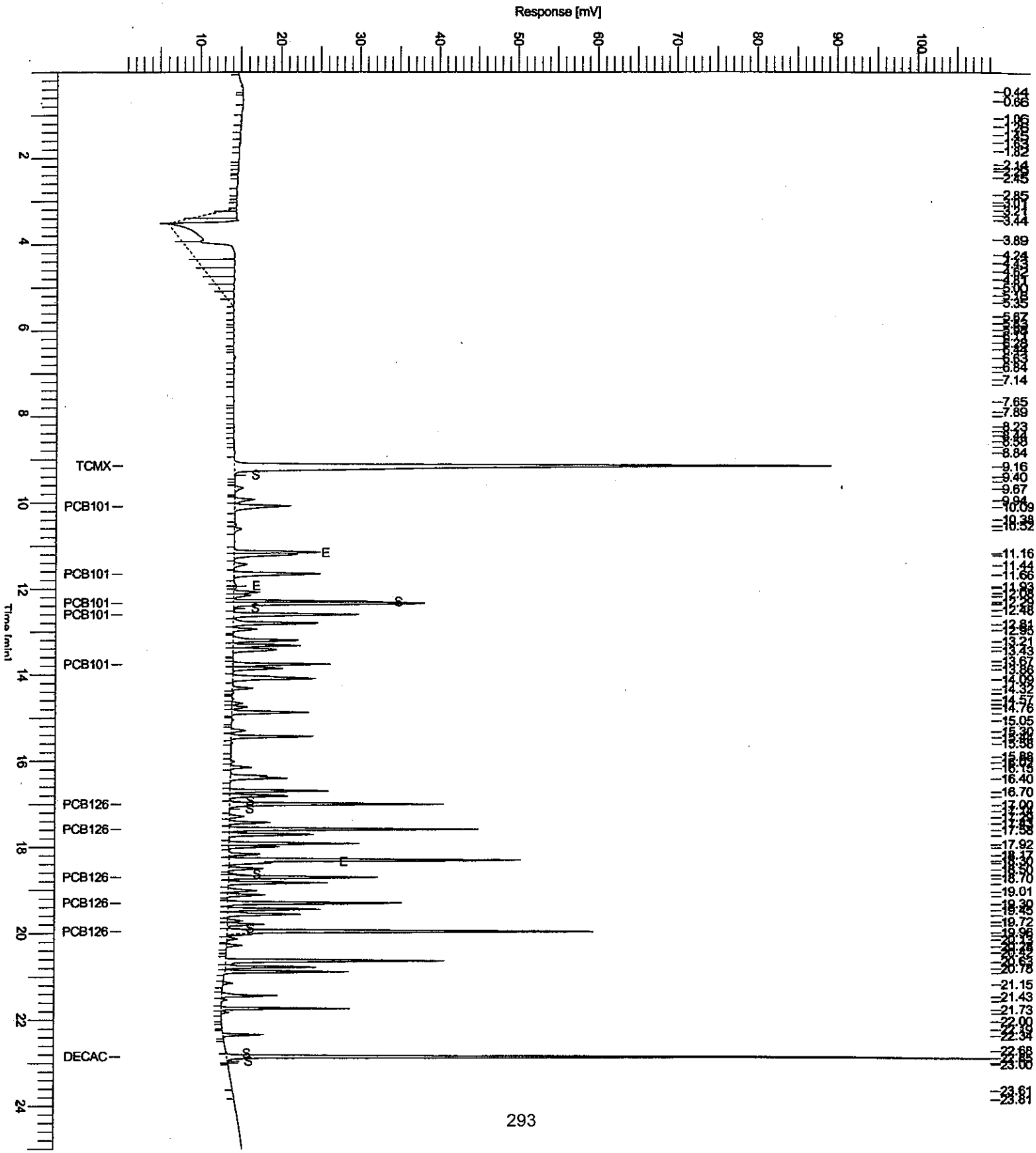
Report stored in ASCII file: G:\gc22\CHB\240b018p.TX0

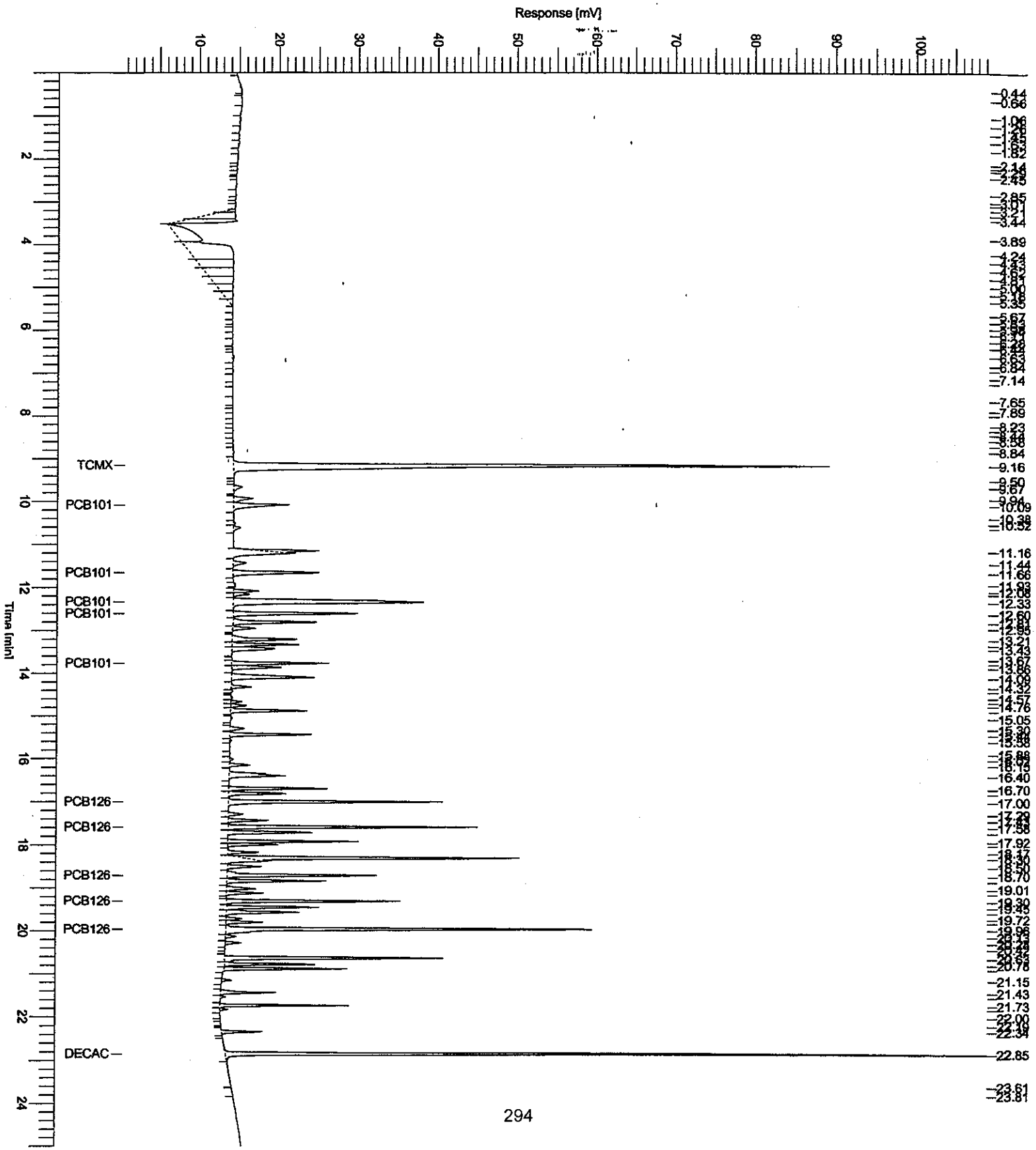
GC22 Rtx-CLPesticides II

ample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
ileName : G:\gc22\CHb\240b018.raw
ate : 8/30/04 11:54:03 AM
ethod : Time of Injection: 8/28/04 1:44:20 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.42 mV High Point : 109.44 mV
lot Offset: 0.42 mV Plot Scale: 109.0 mV



GC22 Rtx-CLPesticides II

Sample Name : ical,04ws1522,pcb500_100 Sample #: level 5 Page 1 of 1
FileName : G:\gc22\CHb\240b018
Date : 8/30/04 10:46:36 AM
Method : gc22ins Time of Injection: 8/28/04 1:44:20 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.69 mV High Point : 109.44 mV
Scale Factor: 1.0 Plot Offset: 0.69 mV Plot Scale: 108.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0964,pcb750_150
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 8/30/04 11:28:47 AM
Data Acquisition Time : 8/28/04 2:12:43 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a019p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.839	517893.85	14.4126	1.000	1	14.41	2.88
Aroclor-1016	12.228	349959.08	91.6078	1.000	1	91.61	18.32
Aroclor-1260	19.864	626181.72	87.5419	1.000	1	87.54	17.51
Decachlorobiphenyl	22.378	298790.03	18.5308	1.000	1	18.53	3.71
		1792824.67	212.0932			212.09	42.42

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.913	45231.92	119.7953	1.000	1	119.80	23.96
PCB1016#3	12.587	74889.96	57.7624	1.000	1	57.76	11.55
PCB1016#4	12.761	53936.20	89.9945	1.000	1	89.99	18.00
PCB1016#2	12.228	116928.42	120.6922	1.000	1	120.69	24.14
PCB1016#5	13.678	58972.58	102.0373	1.000	1	102.04	20.41
		349959.08	490.2816			490.28	98.06

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.805	102857.00	85.1212	1.000	1	85.12	17.02
PCB1260#2	17.499	160938.82	92.8018	1.000	1	92.80	18.56
PCB1260#3	18.482	77632.58	86.0665	1.000	1	86.07	17.21
PCB1260#4	19.104	91376.22	103.6841	1.000	1	103.68	20.74
PCB1260#5	19.864	193377.10	90.3995	1.000	1	90.40	18.08
		626181.72	458.0730			458.07	91.61

8/30/04

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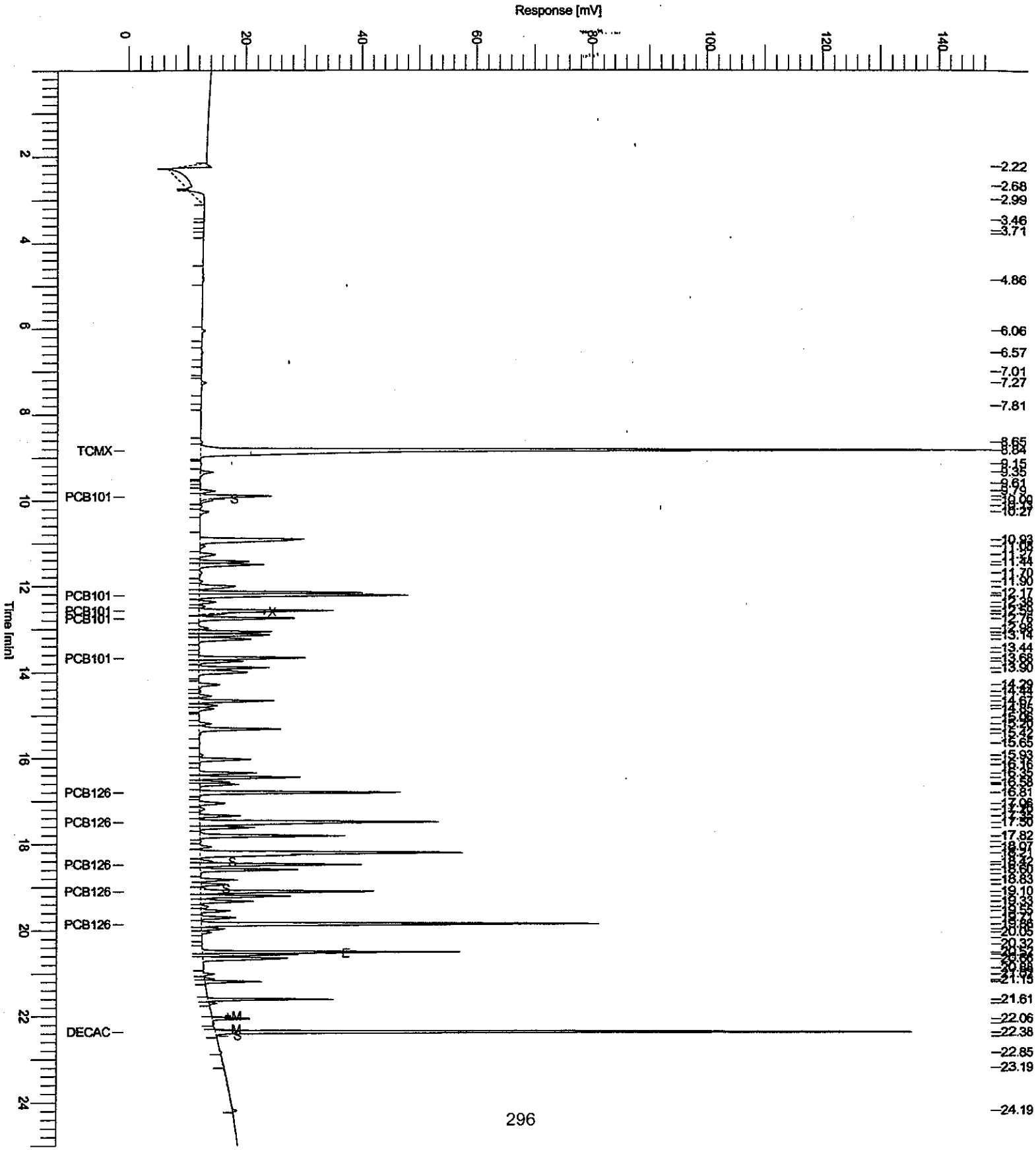
Report stored in ASCII file: G:\gc22\CHA\240a019p.TX0

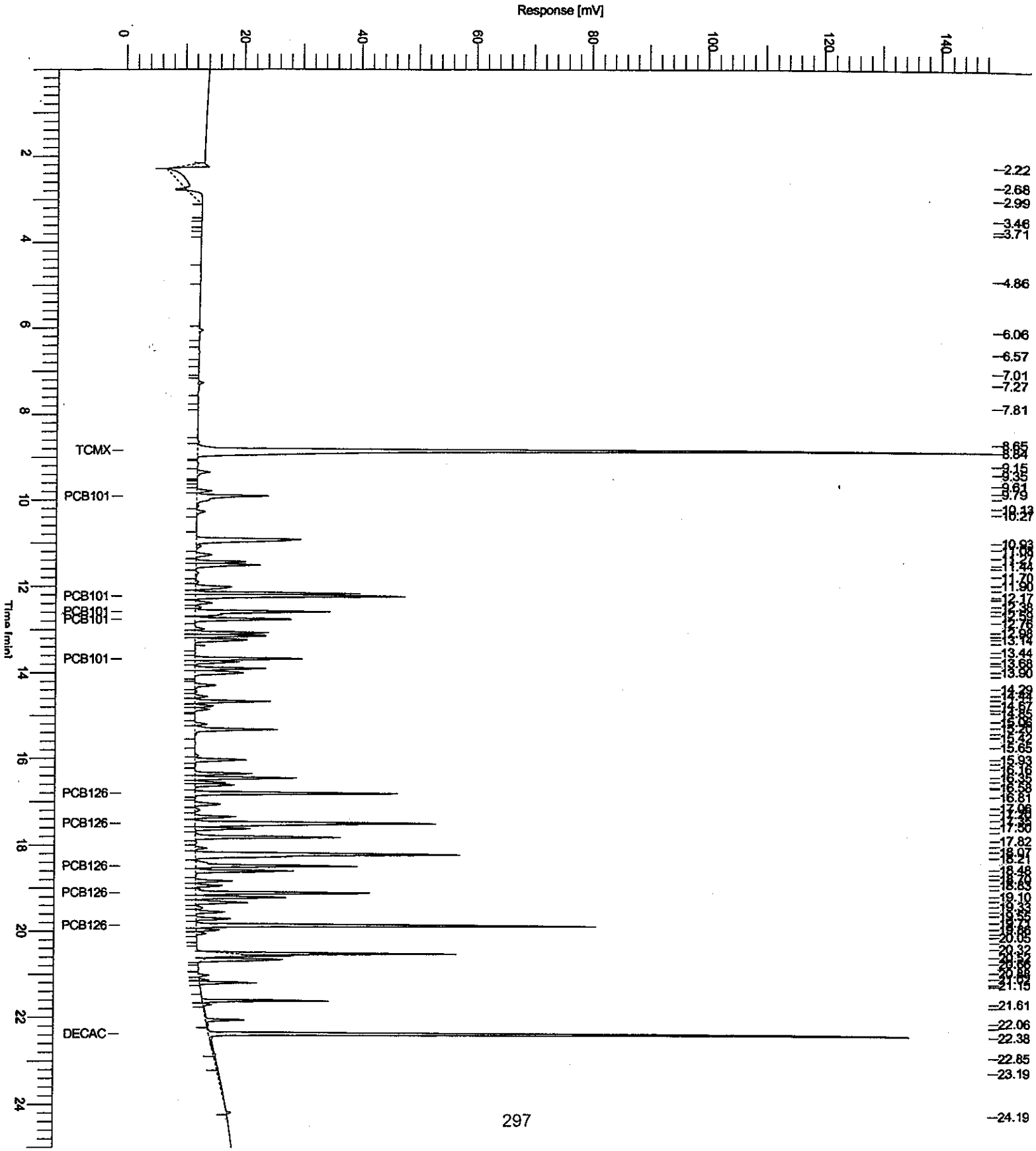
GC22 Rtx-CLPesticides

Sample Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
FileName : G:\gc22\CHA\240a019.raw
Date : 8/30/04 11:28:52 AM
Method : Time of Injection: 8/28/04 2:12:43 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.81 mV High Point : 149.03 mV
Plot Offset: -0.81 mV Plot Scale: 149.8 mV



GC22 Rtx-CLPesticides

ample Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
ileName : G:\gc22\CHA\240a019.raw
ate : 8/30/04 10:46:08 AM
ethod : gc22ins Time of Injection: 8/28/04 2:12:43 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.44 mV High Point : 149.03 mV
cale Factor: 1.0 Plot Offset: -0.44 mV Plot Scale: 149.5 mV



Software Version	: 6.1.2.0.1:D19	Date	: 8/30/04 11:55:16 AM
Sample Name	: ical,04ws0964,pcb750_150	Data Acquisition Time	: 8/28/04 2:12:43 AM
Instrument Name	: gc22	Channel	: B
Rack/Vial	: 0/0	Operator	: analyst
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 19		

Result File : G:\gc22\CHB\240b019p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.157	523315.50	279.0805	1.000	1	279.08	55.82
Aroclor-1016	12.339	370979.19	1019.9863	1.000	1	1019.99	204.00
Aroclor-1260	19.962	637839.79	859.1848	1.000	1	859.18	171.84
Decachlorobiphenyl	22.847	323711.95	390.5659	1.000	1	390.57	78.11
		1855846.43	2548.8175			2548.82	509.76

8/30/04

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.089	43895.78	859.3137	1.000	1	859.31	171.86
PCB1016#2	11.663	62699.51	935.4696	1.000	1	935.47	187.09
PCB1016#3	12.339	129492.65	1180.7763	1.000	1	1180.78	236.16
PCB1016#4	12.605	78454.15	1354.0963	1.000	1	1354.10	270.82
PCB1016#5	13.768	56437.11	723.5786	1.000	1	723.58	144.72
		370979.19	5053.2344			5053.23	1010.65

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.001	119297.48	700.6105	1.000	1	700.61	140.12
PCB1260#2	17.585	127629.08	988.8913	1.000	1	988.89	197.78
PCB1260#3	18.705	82768.31	766.8886	1.000	1	766.89	153.38
PCB1260#4	19.304	92286.00	998.5493	1.000	1	998.55	199.71
PCB1260#5	19.962	215858.91	889.4391	1.000	1	889.44	177.89
		637839.79	4344.3787			4344.38	868.88

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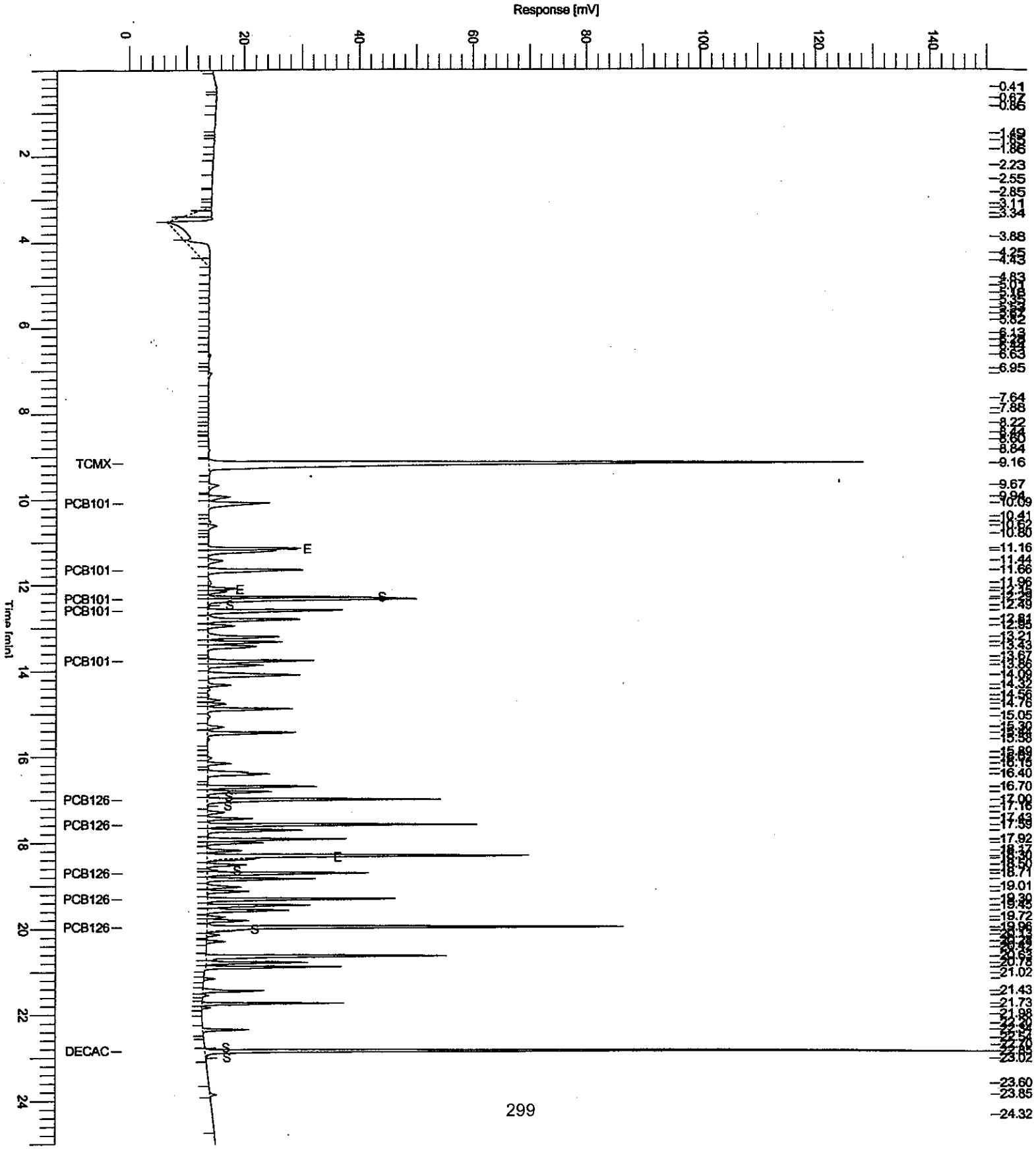
Report stored in ASCII file: G:\gc22\CHB\240b019p.TX0

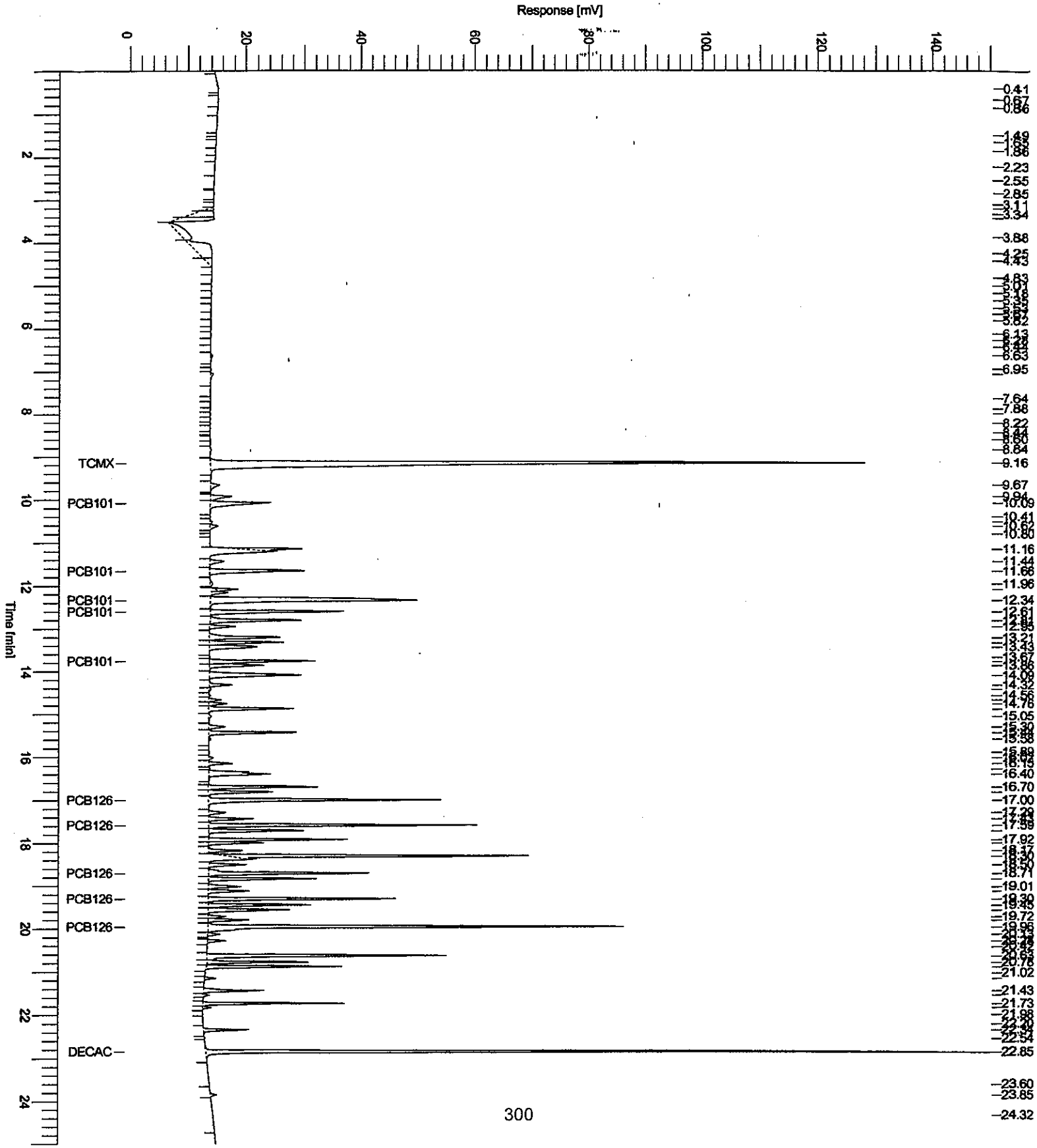
GC22 Rtx-CLPesticides II

ample Name : ical,04ws0964,pcb750_150 Sample #: level 6 Page 1 of 1
ileName : G:\gc22\CHb\240b019.raw
ate : 8/30/04 11:55:21 AM
lethod : Time of Injection: 8/28/04 2:12:43 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.09 mV High Point : 150.48 mV
lot Offset: -1.09 mV Plot Scale: 151.6 mV



GC22 Rtx-CLPesticides II

Sample Name : ical,04ws0964,pcb750_150 Sample #: level 6
FileName : G:\gc22\CHb\240b019
Date : 8/30/04 10:46:40 AM
Method : gc22ins Time of Injection: 8/28/04 2:12:43 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.71 mV High Point : 150.48 mV
Scale Factor: 1.0 Plot Offset: -0.71 mV Plot Scale: 151.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0967,pcb1K200
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/30/04 11:33:27 AM
Data Acquisition Time : 8/28/04 2:41:05 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a020p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.840	627794.08	17.4710	1.000	1	17.47	3.49
Aroclor-1016	12.226	413362.12	108.2046	1.000	1	108.20	21.64
Aroclor-1260	19.863	667603.32	93.3328	1.000	1	93.33	18.67
Decachlorobiphenyl	22.370	287516.79	17.8317	1.000	1	17.83	3.57
		1996276.31	236.8401			236.84	47.37

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.909	57629.61	152.6302	1.000	1	152.63	30.53
PCB1016#3	12.586	87408.94	67.4182	1.000	1	67.42	13.48
PCB1016#4	12.756	62357.76	104.0461	1.000	1	104.05	20.81
PCB1016#2	12.226	137304.88	141.7245	1.000	1	141.72	28.34
PCB1016#5	13.673	68660.94	118.8005	1.000	1	118.80	23.76
		413362.12	584.6196			584.62	116.92

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8/30/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.804	115183.58	95.3223	1.000	1	95.32	19.06
PCB1260#2	17.498	174555.05	100.6533	1.000	1	100.65	20.13
PCB1260#3	18.480	84875.09	94.0958	1.000	1	94.10	18.82
PCB1260#4	19.103	95372.62	108.2188	1.000	1	108.22	21.64
PCB1260#5	19.863	197616.98	92.3815	1.000	1	92.38	18.48
		667603.32	490.6717			490.67	98.13

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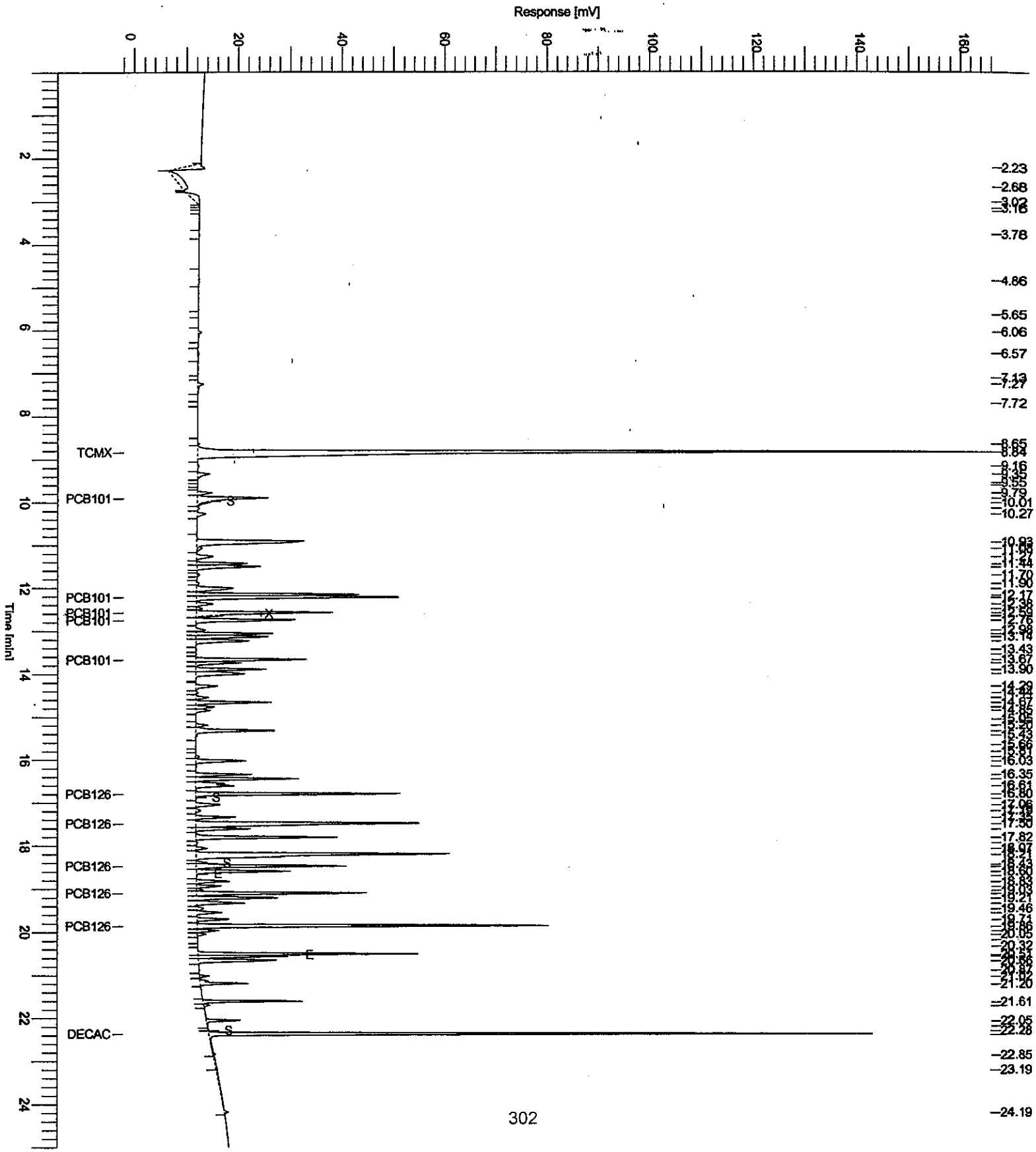
Report stored in ASCII file: G:\gc22\CHA\240a020p.TX0

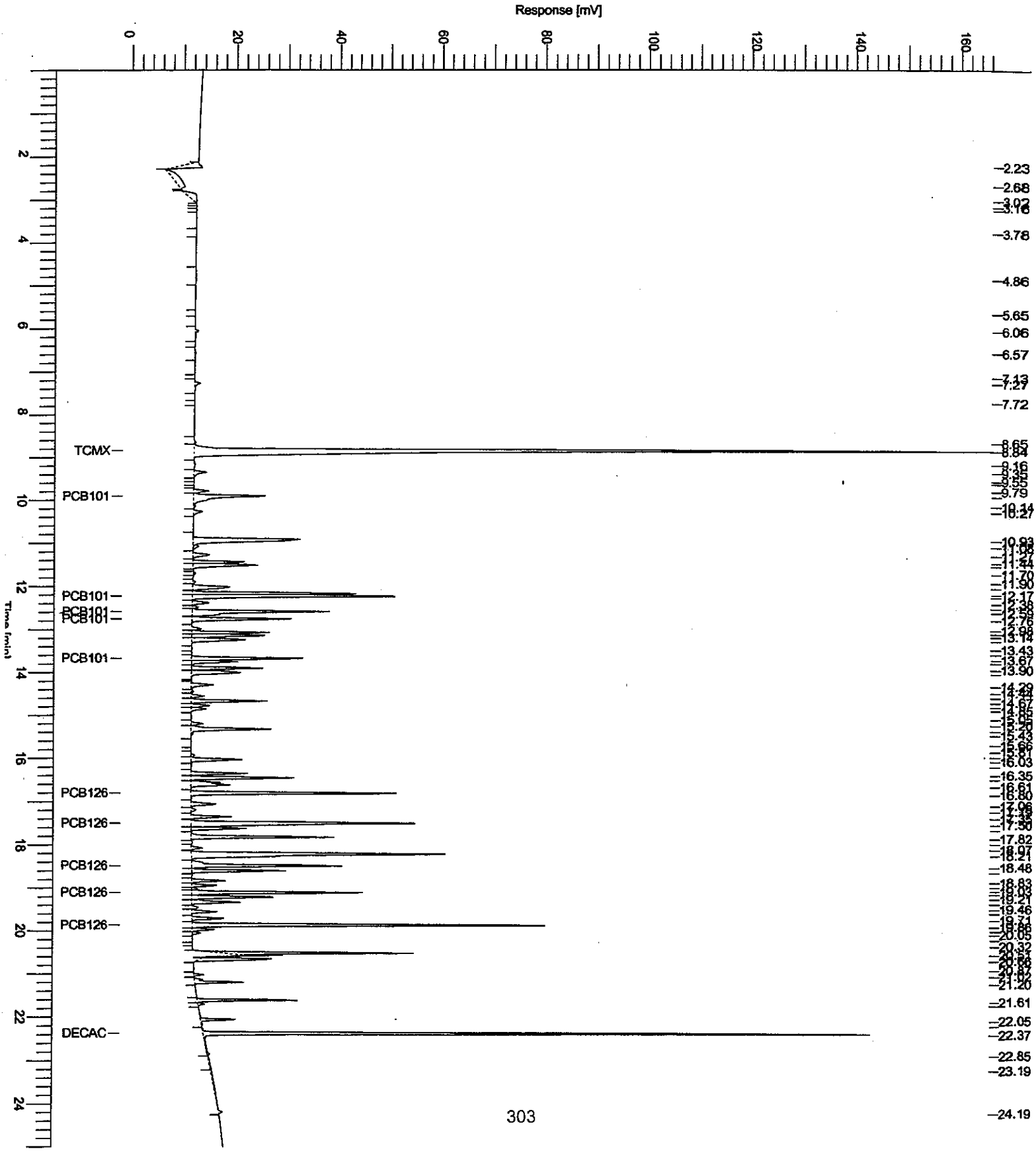
GC22 Rtx-CLPesticides

ample Name : ical,04ws0967,pcb1K200 Sample #: level 7 Page 1 of 1
ileName : G:\gc22\CHA\240a020.raw
ate : 8/30/04 11:33:32 AM
lethod :
Time of Injection: 8/28/04 2:41:05 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.11 mV High Point : 166.16 mV
lot Offset: -2.11 mV Plot Scale: 168.3 mV



GC22 Rtx-CLPesticides

ample Name : ical,04ws0967,pcb1K200 Sample #: level 7 Page 1 of 1
ileName : G:\gc22\CHA\240a020.raw
ate : 8/30/04 10:46:12 AM
lethod : gc22ins Time of Injection: 8/28/04 2:41:05 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.68 mV High Point : 166.16 mV
cale Factor: 1.0 Plot Offset: -1.68 mV Plot Scale: 167.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0967,pcb1K200
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/30/04 11:56:34 AM
Data Acquisition Time : 8/28/04 2:41:05 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\240b020p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.157	711223.65	379.2906	1.000	1	379.29	75.86
Aroclor-1016	12.332	479400.03	1318.0833	1.000	1	1318.08	263.62
Aroclor-1260	19.961	827323.71	1114.4240	1.000	1	1114.42	222.88
Decachlorobiphenyl	22.846	442433.09	533.8057	1.000	1	533.81	106.76
		2460380.49	3345.6035			3345.60	669.12

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	58548.74	1146.1635	1.000	1	1146.16	229.23
PCB1016#2	11.658	82782.00	1235.0981	1.000	1	1235.10	247.02
PCB1016#3	12.332	163119.45	1487.4017	1.000	1	1487.40	297.48
PCB1016#4	12.604	100725.50	1738.4935	1.000	1	1738.49	347.70
PCB1016#5	13.767	74224.34	951.6281	1.000	1	951.63	190.33
		479400.03	6558.7849			6558.78	1311.76

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Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.000	153996.93	904.3935	1.000	1	904.39	180.88
PCB1260#2	17.584	164661.61	1275.8254	1.000	1	1275.83	255.17
PCB1260#3	18.704	105252.05	975.2113	1.000	1	975.21	195.04
PCB1260#4	19.303	119820.00	1296.4716	1.000	1	1296.47	259.29
PCB1260#5	19.961	283593.13	1168.5355	1.000	1	1168.54	233.71
		827323.71	5620.4372			5620.44	1124.09

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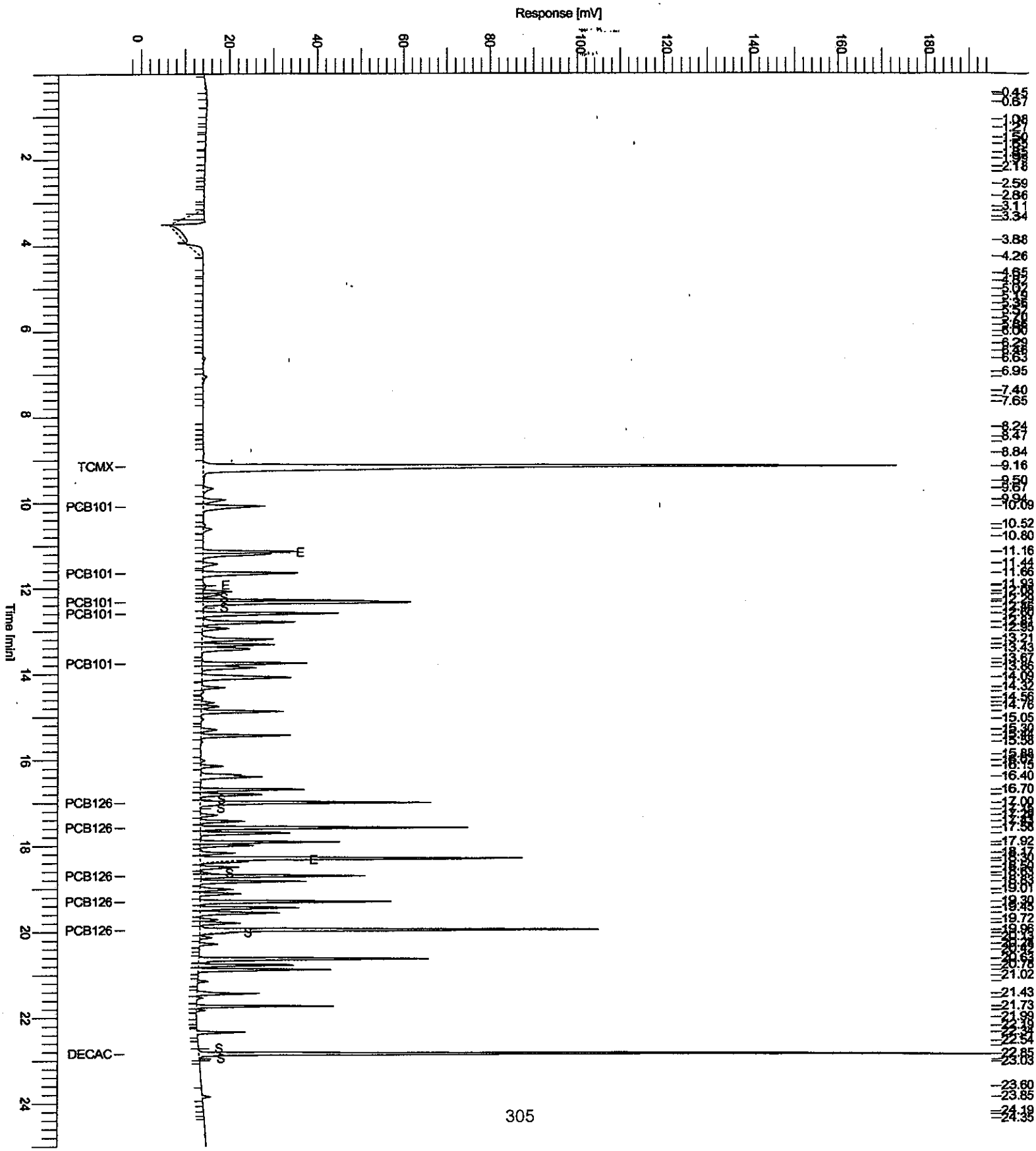
Report stored in ASCII file: G:\gc22\CHB\240b020p.TX0

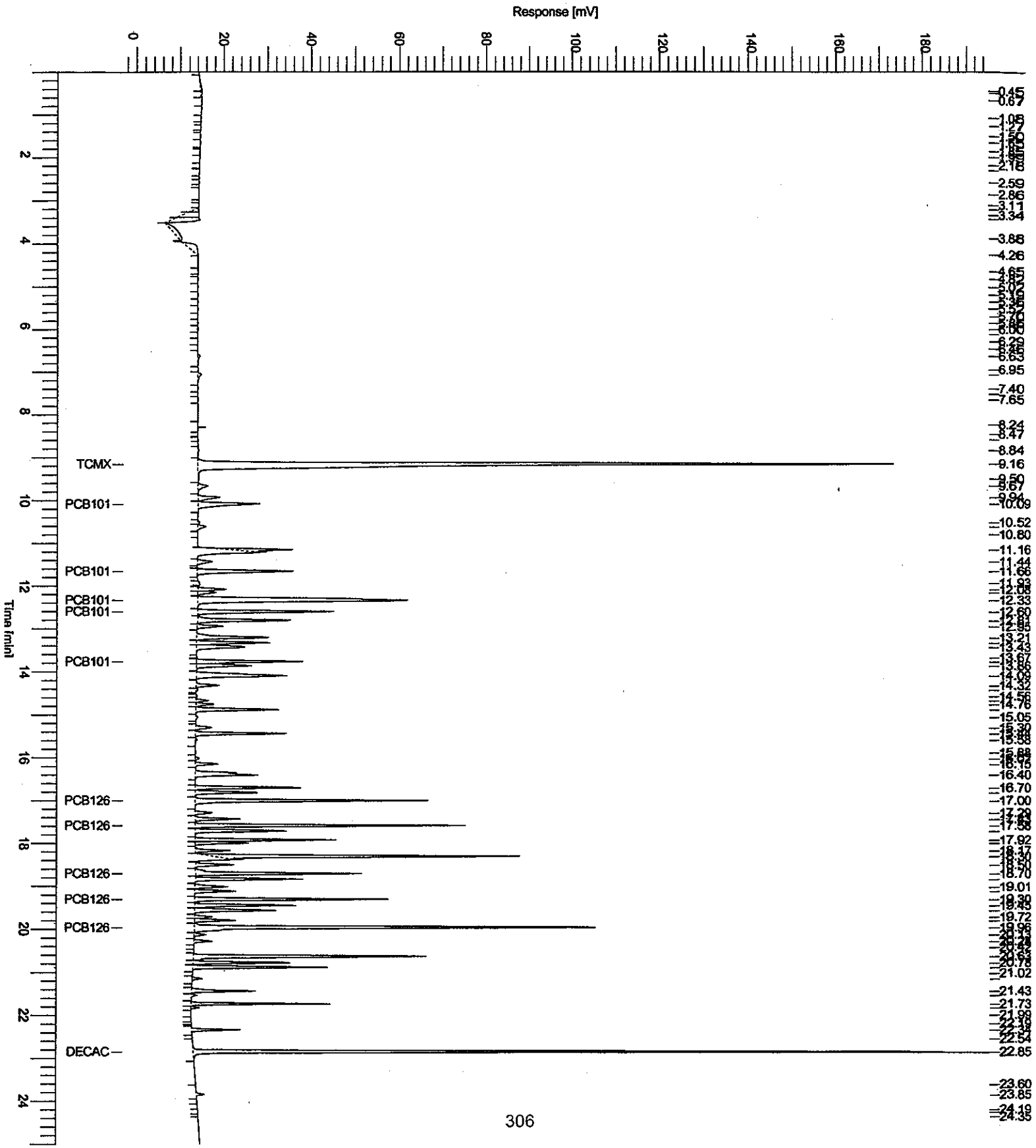
GC22 Rtx-CLPesticides II

Sample Name : Ical,04ws0967,pcb1K200 Sample #: level 7 Page 1 of 1
FileName : G:\gc22\CHb\240b020.raw
Date : 8/30/04 11:56:39 AM
Method :
Time of Injection: 8/28/04 2:41:05 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -3.64 mV High Point : 195.26 mV
Plot Offset: -3.64 mV Plot Scale: 198.9 mV



GC22 Rtx-CLPesticides II

Sample Name : ical,04ws0967,pcb1K200 Sample #: level 7 Page 1 of 1
FileName : G:\gc22\CHb\240b020
Date : 8/30/04 10:46:45 AM
Method : gc22ins Time of Injection: 8/28/04 2:41:05 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -3.14 mV High Point : 195.26 mV
Scale Factor: 1.0 Plot Offset: -3.14 mV Plot Scale: 198.4 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC22 Run Name : icv
Seqnum : 254347030023 Filename : 240_023 Injected : 28-AUG-2004 04:06
Calnum : 254347030001 Caldate : 27-AUG-2004 Caltype :
Standards: 04WS1423

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aroclor-1016	A	250.0000	283.3600	pg	13	15	
Aroclor-1260	A	250.0000	285.3874	pg	14	15	
TCMX	A	50.00000	51.48744	pg	3	15	
Decachlorobiphenyl	A	50.00000	49.79742	pg	0	15	
Aroclor-1016	B	250.0000	277.3784	pg	11	15	
Aroclor-1260	B	250.0000	271.4082	pg	9	15	
TCMX	B	50.00000	49.99883	pg	0	15	
Decachlorobiphenyl	B	50.00000	44.23663	pg	-12	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws1423,accu_1660
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 8/30/04 1:44:40 PM
Data Acquisition Time : 8/28/04 4:06:05 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\240a023p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.847	169144.71	51.4874	1.000	1	51.49	10.30
Aroclor-1016	12.230	128797.93	282.7296	1.000	1	282.73	56.55
Aroclor-1260	19.866	228211.88	285.0655	1.000	1	285.07	57.01
Decachlorobiphenyl	22.379	91262.56	49.7974	1.000	1	49.80	9.96
		617417.08	669.0800			669.08	133.82

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.916	17017.90	290.9100	1.000	1	290.91 J	58.18
PCB1016#3	12.589	27302.72	282.8880	1.000	1	282.89	56.58
PCB1016#4	12.764	19497.73	282.0819	1.000	1	282.08	56.42
PCB1016#2	12.230	43276.88	281.4601	1.000	1	281.46	56.29
PCB1016#5	13.681	21702.69	279.4606	1.000	1	279.46	55.89
		128797.93	1416.8006			1416.80	283.36

GP 8/30/04
PCB 1016 #1 = 17017.9 ÷ 58.499 = 290.91 J

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.812	38341.87	288.4408	1.000	1	288.44	57.69
PCB1260#2	17.501	59238.31	281.8622	1.000	1	281.86	56.37
PCB1260#3	18.483	28594.40	286.5158	1.000	1	286.52	57.30
PCB1260#4	19.110	32551.29	284.4217	1.000	1	284.42	56.88
PCB1260#5	19.866	69486.01	285.6968	1.000	1	285.70	57.14
		228211.88	1426.9372			1426.94	285.39

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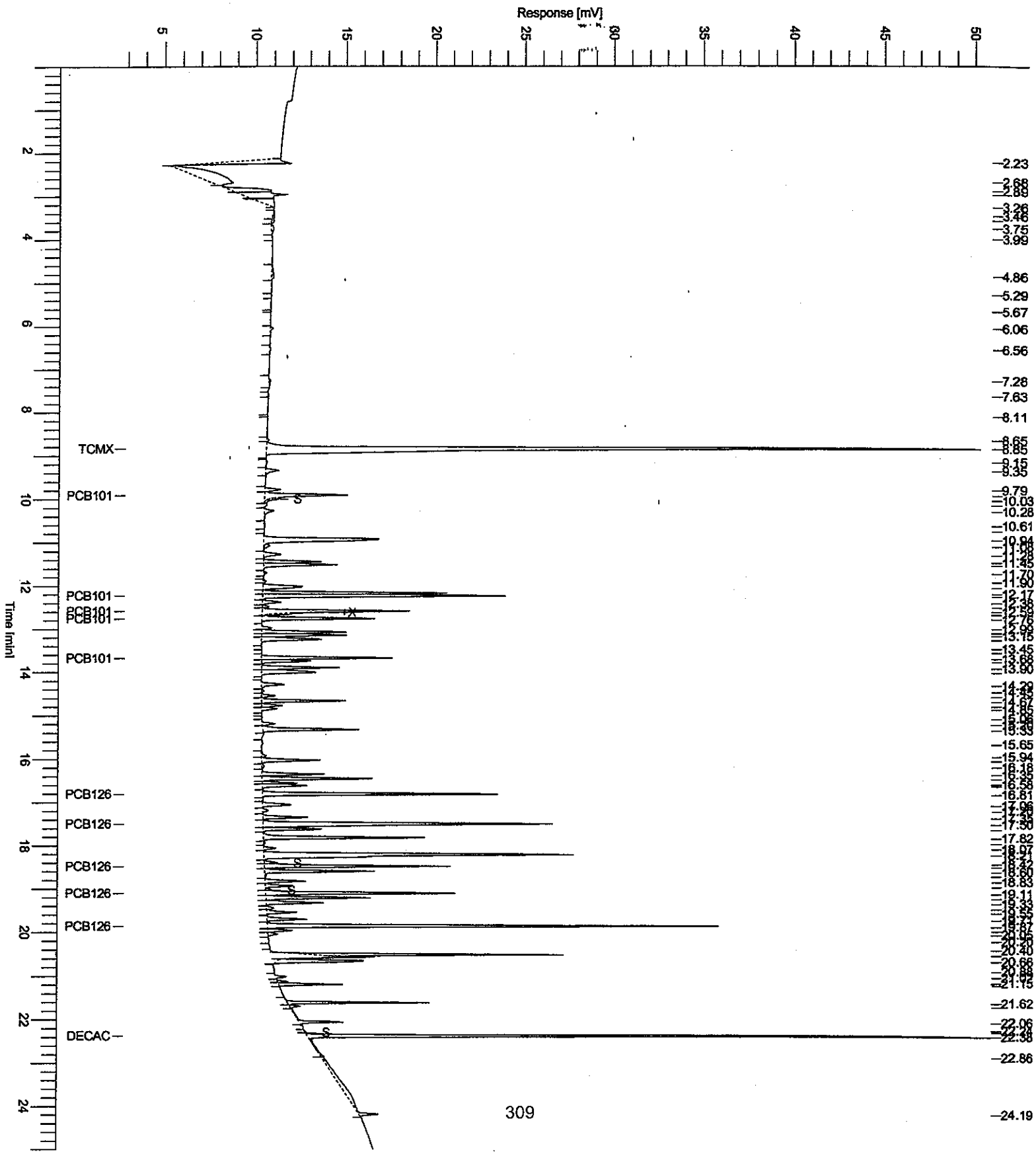
Report stored in ASCII file: G:\gc22\CHA\240a023p.TX0

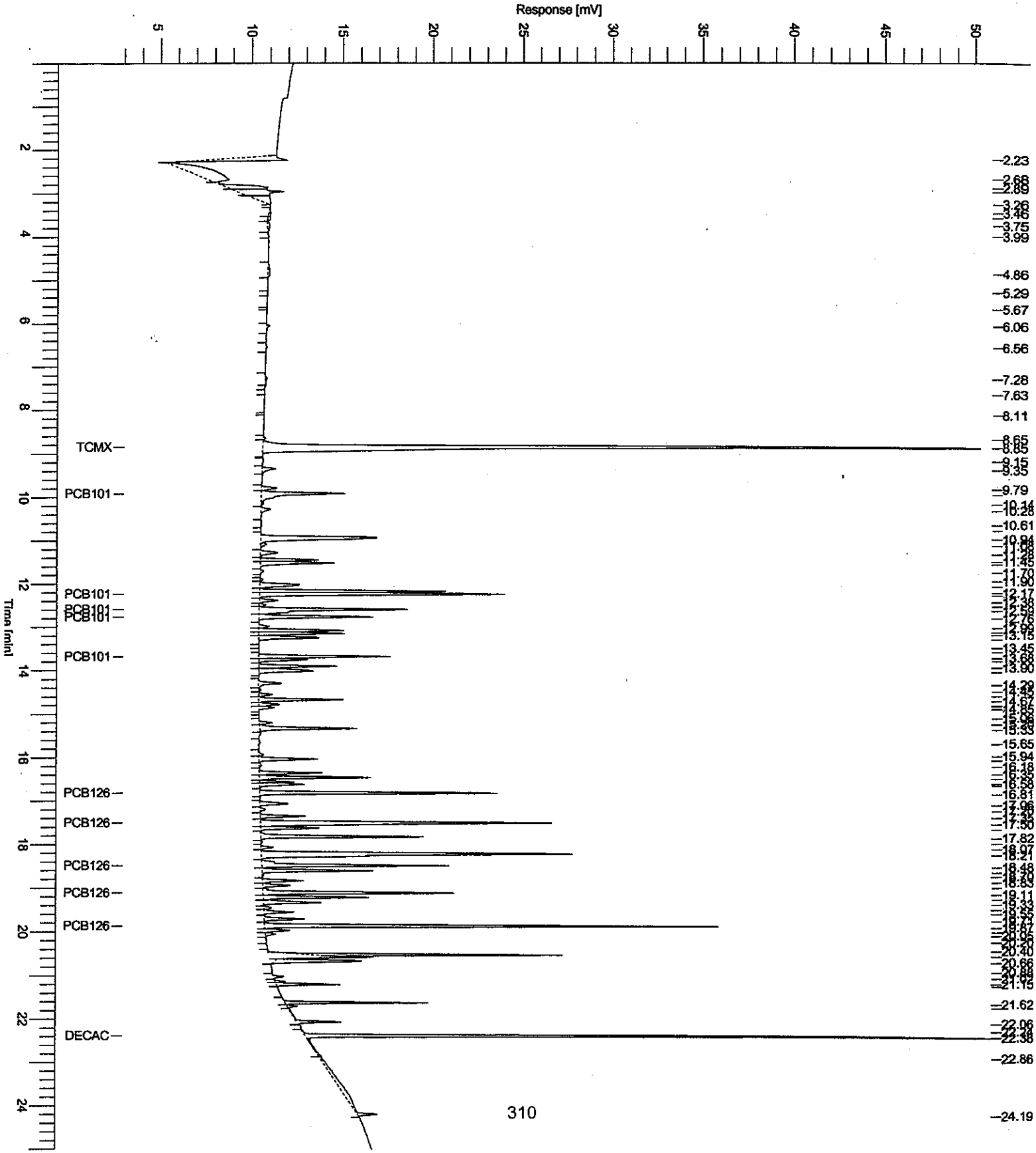
GC22 Rtx-CLPesticides

Sample Name : x,icv,04ws1423,accu_1660 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\CHa\240a023.raw
Date : 8/30/04 1:44:46 PM
Method : Time of injection: 8/28/04 4:06:05 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 2.86 mV High Point : 50.95 mV
Plot Offset: 2.86 mV Plot Scale: 48.1 mV



GC22 Rtx-CLPesticides

ample Name : x,icv,04ws1423,accu_1660 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc22\CHa\240a023.raw
ate : 8/30/04 11:43:26 AM
ethod : gc22ins Time of Injection: 8/28/04 4:06:05 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.98 mV High Point : 50.95 mV
cale Factor: 1.0 Plot Offset: 2.98 mV Plot Scale: 48.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws1423,accu_1660
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 8/30/04 12:09:03 PM
Data Acquisition Time : 8/28/04 4:06:05 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\240b023p.rst
Sequence File : G:\gc22\files\240.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.158	182075.68	49.9988	1.000	1	50.00	10.00
Aroclor-1016	12.340	142649.88	277.1448	1.000	1	277.14	55.43
Aroclor-1260	19.963	247860.86	270.5352	1.000	1	270.54	54.11
Decachlorobiphenyl	22.849	108420.00	44.2366	1.000	1	44.24	8.85
		681006.42	641.9154			641.92	128.38

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.089	16710.70	281.6735	1.000	1	281.67	56.33
PCB1016#2	11.664	24120.00	275.0448	1.000	1	275.04	55.01
PCB1016#3	12.340	50025.59	279.0992	1.000	1	279.10	55.82
PCB1016#4	12.607	29836.00	271.3458	1.000	1	271.35	54.27
PCB1016#5	13.769	21957.58	279.7288	1.000	1	279.73	55.95
		142649.88	1386.8921			1386.89	277.38

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	17.002	46176.00	265.9869	1.000	1	265.99 ✓	53.20
PCB1260#2	17.586	49884.21	268.6456	1.000	1	268.65	53.73
PCB1260#3	18.711	32382.87	275.8323	1.000	1	275.83	55.17
PCB1260#4	19.305	35762.50	277.1002	1.000	1	277.10	55.42
PCB1260#5	19.963	83655.28	269.4763	1.000	1	269.48	53.90
		247860.86	1357.0413			1357.04	271.41

gf 8/30/04

pcb 1260#1
=
46176
÷
173.6
=
265.99 ✓

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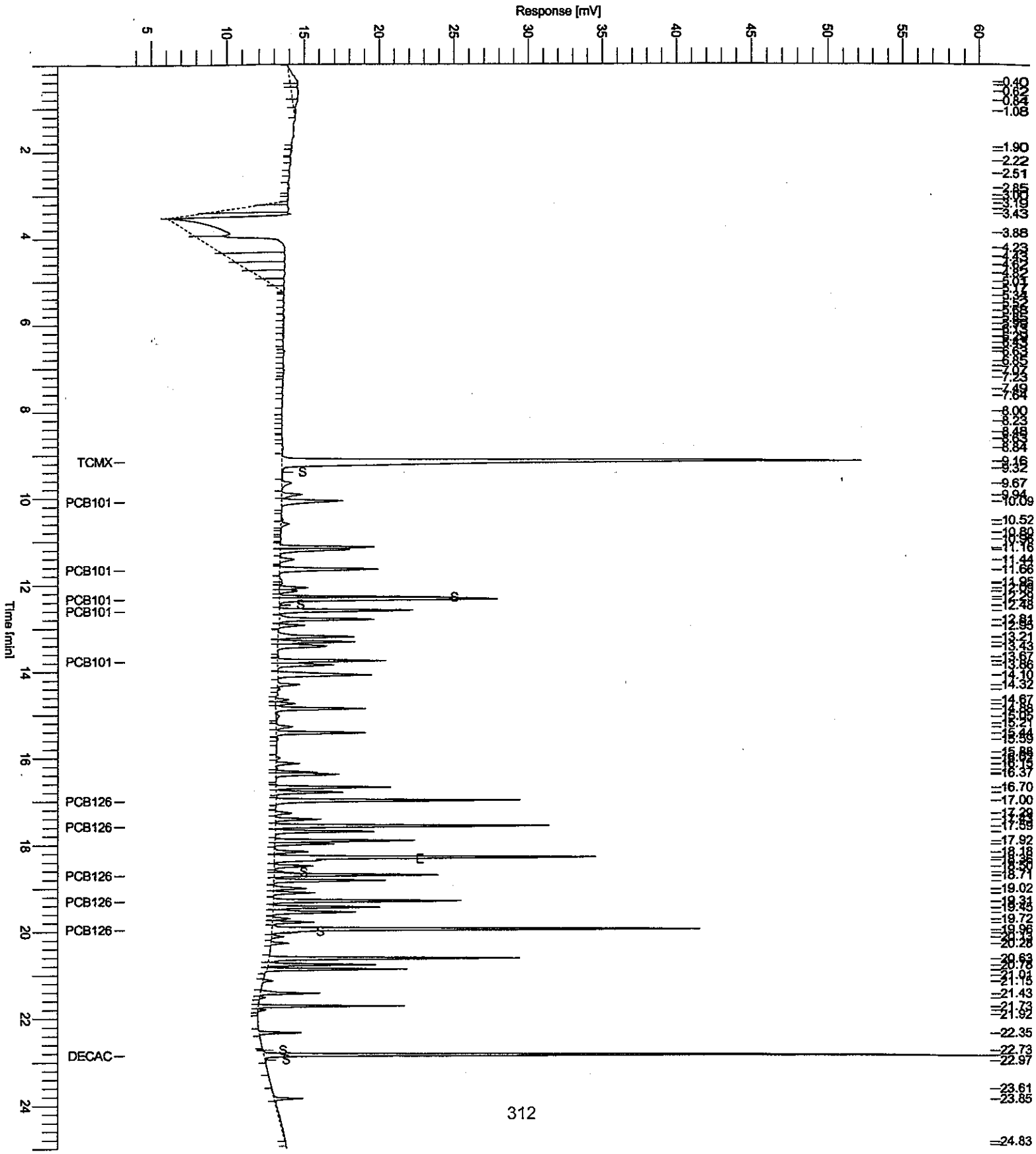
Report stored in ASCII file: G:\gc22\CHB\240b023p.TX0

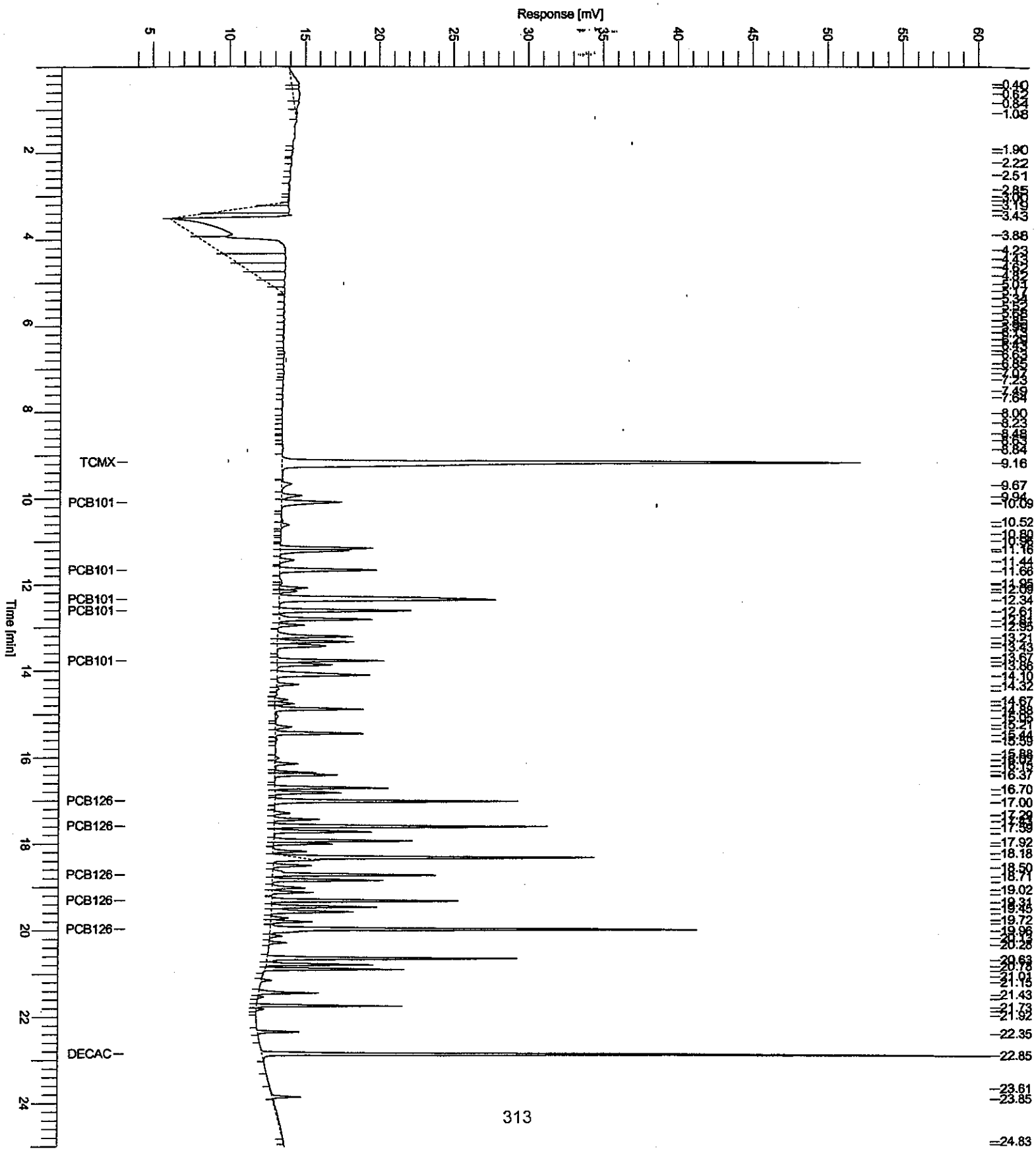
GC22 Rtx-CLPesticides II

ample Name : x,icv,04ws1423,accu_1660 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc22\CHb\240b023.raw
ate : 8/30/04 12:09:09 PM
ethod :
Time of Injection: 8/28/04 4:06:05 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.18 mV High Point : 60.92 mV
lot Offset: 3.18 mV Plot Scale: 57.7 mV



GC22 Rtx-CLPesticides II

Sample Name : x,icv,04ws1423,accu_1660 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\CHb\240b023
Date : 8/30/04 12:07:49 PM
Method : gc22ins Time of Injection: 8/28/04 4:06:05 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 3.32 mV High Point : 60.92 mV
Scale Factor: 1.0 Plot Offset: 3.32 mV Plot Scale: 57.6 mV



Turbochrom Method File G:\gc22\files\1248a243.mth
Printed by : analyst on: 8/31/04 11:50:46 AM
Created by : analyst on: 8/31/04 10:20:35 AM
Edited by : analyst on: 8/31/04 11:50:37 AM
Number of Times Edited : 2
Number of Times Calibrated : 69
Description: gc 22

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX_
Component Type : Single Peak Component
Retention Time : 8.870 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Quantitation will be done using response factor = 3285.164400

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	50.0000	699082.31	209411.40	----------	----------	1

PCB1248#1
Component Type : Single Peak Component
Retention Time : 12.246 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	16405.64	4765.67	----------	----------	1

Average Calibration Factor = 65.622547 (%RSD = 0.00)

8/31/04 11:50:46 AM Method: G:\gc22\files\1248a243.mth

PCB1248#2
Component Type : Single Peak Component
Retention Time : 13.262 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	11721.09	3179.03	----------	----------	1

Average Calibration Factor = 46.884357 (%RSD = 0.00)

Aroclor-1248
Component Type : Named Group
Group Members
PCB1248#1
PCB1248#2
PCB1248#3
PCB1248#4
PCB1248#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	76239.18	22789.61	----------	----------	1

Average Calibration Factor = 304.956730 (%RSD = 0.00)

PCB1248#3
Component Type : Single Peak Component
Retention Time : 13.697 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 11:50:46 AM Method: G:\gc22\files\1248a243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	24676.33	7537.57	----------	----------	1

Average Calibration Factor = 98.705339 (%RSD = 0.00)

PCB1248#4
Component Type : Single Peak Component
Retention Time : 14.570 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	14254.00	4413.86	----------	----------	1

Average Calibration Factor = 57.016011 (%RSD = 0.00)

PCB1248#5
Component Type : Single Peak Component
Retention Time : 16.063 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	9182.12	2893.48	----------	----------	1

Average Calibration Factor = 36.728476 (%RSD = 0.00)

Decachlorobiphenyl_
Component Type : Single Peak Component
Retention Time : 22.381 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Quantitation will be done using response factor = 1832.676550

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 11:50:46 AM Method: G:\gc22\files\1248a243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	50.0000	586001.19	231247.02	----------	----------	1

Calibration Replicate Lists

Component : TCMX_
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
699082.31	209411.40	50.0000	--------	--------	9/10/02	2:16:06 PM	G:\gc21\CHA\252a022p.rst

Component : PCB1248#1
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16405.64	4765.67	250.0000	--------	--------	8/31/04	11:50:19 AM	G:\gc22\CHA\243a007.rst

Component : PCB1248#2
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11721.09	3179.03	250.0000	--------	--------	8/31/04	11:50:19 AM	G:\gc22\CHA\243a007.rst

Component : Aroclor-1248
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
76239.18	22789.61	250.0000	--------	--------	8/31/04	11:50:19 AM	G:\gc22\CHA\243a007.rst

Component : PCB1248#3
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24676.33	7537.57	250.0000	--------	--------	8/31/04	11:50:19 AM	G:\gc22\CHA\243a007.rst

Component : PCB1248#4
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14254.00	4413.86	250.0000	--------	--------	8/31/04	11:50:19 AM	G:\gc22\CHA\243a007.rst

Component : PCB1248#5
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9182.12	2893.48	250.0000	--------	--------	8/31/04	11:50:19 AM	G:\gc22\CHA\243a007.rst

Component : Decachlorobiphenyl_
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
586001.19	231247.02	50.0000	--------	--------	9/10/02	2:16:06 PM	G:\gc21\CHA\252a022p.rst

Turbochrom Method File G:\gc22\files\1248b243.mth
Printed by : analyst on: 8/31/04 11:30:55 AM
Created by ; analyst on: 8/31/04 10:29:45 AM
Edited by : analyst on: 8/31/04 11:30:50 AM
Number of Times Edited : 2
Number of Times Calibrated : 70
Description: gc 22

8/31/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX_
Component Type : Single Peak Component
Retention Time : 9.159 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Quantitation will be done using response factor = 3641.598830

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

PA 8/31/04

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	50.0000	406870.56	119228.31	----------	----------	1

PCB1248#1
Component Type : Single Peak Component
Retention Time : 12.814 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	7719.93	2253.23	----------	----------	1

Average Calibration Factor = 30.879734 (%RSD = 0.00)

8/31/04 11:30:55 AM Method: G:\gc22\files\1248b243.mth

PCB1248#2
Component Type : Single Peak Component
Retention Time : 13.770 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	27733.13	8313.00	----------	----------	1

Average Calibration Factor = 110.932516 (%RSD = 0.00)

PCB1248#3
Component Type : Single Peak Component
Retention Time : 14.096 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	33729.00	7913.85	----------	----------	1

Average Calibration Factor = 134.916000 (%RSD = 0.00)

Aroclor-1248
Component Type : Named Group
Group Members
PCB1248#1
PCB1248#2
PCB1248#3
PCB1248#4
PCB1248#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 11:30:55 AM Method: G:\gc22\files\1248b243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	116575.28	32039.01	----------	----------	1

Average Calibration Factor = 466.301129 (%RSD = 0.00)

PCB1248#4
Component Type : Single Peak Component
Retention Time : 15.318 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	33910.36	9499.57	----------	----------	1

Average Calibration Factor = 135.641446 (%RSD = 0.00)

PCB1248#5
Component Type : Single Peak Component
Retention Time : 16.151 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	250.0000	13482.86	4059.36	----------	----------	1

Average Calibration Factor = 53.931432 (%RSD = 0.00)

Decachlorobiphenyl_
Component Type : Single Peak Component
Retention Time : 22.846 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Quantitation will be done using response factor = 2450.910550

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/31/04 11:30:55 AM Method: G:\gc22\files\1248b243.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
4	50.0000	337406.56	132617.68	----------	----------	1

Calibration Replicate Lists

Component : TCMX_
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
406870.56	119228.31	50.0000	--------	--------	9/10/02	2:22:59 PM	G:\gc21\CHB\252b022p.rst

Component : PCB1248#1
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7719.93	2253.23	250.0000	--------	--------	8/31/04	11:29:56 AM	G:\gc22\CHB\243b007p.rst

Component : PCB1248#2
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27733.13	8313.00	250.0000	--------	--------	8/31/04	11:29:56 AM	G:\gc22\CHB\243b007p.rst

Component : PCB1248#3
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33729.00	7913.85	250.0000	--------	--------	8/31/04	11:29:56 AM	G:\gc22\CHB\243b007p.rst

Component : Aroclor-1248
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116575.28	32039.01	250.0000	--------	--------	8/31/04	11:29:56 AM	G:\gc22\CHB\243b007p.rst

Component : PCB1248#4
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33910.36	9499.57	250.0000	--------	--------	8/31/04	11:29:56 AM	G:\gc22\CHB\243b007p.rst

Component : PCB1248#5
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13482.86	4059.36	250.0000	--------	--------	8/31/04	11:29:56 AM	G:\gc22\CHB\243b007p.rst

Component : Decachlorobiphenyl_
Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
337406.56	132617.68	50.0000	--------	--------	9/10/02	2:22:59 PM	G:\gc21\CHB\252b022p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: [illegible]
Calnum: 254350716002 Name: Type: (normal) Date: 30-AUG-2004 18:27 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	243_007	254350716007	ar1248 250 ng/L	30-AUG-2004 18:27	04WS1542

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2	MnR^2	MxRSD	Flags
Aroclor-1248 Peak # 1	A	65.623	AVRG	R		0.015239		pg	65.623	0	—	.99	20	
Aroclor-1248 Peak # 2	A	46.884	AVRG	R		0.021329		pg	~~46.884~~	~~0~~	—	.99	20	
Aroclor-1248 Peak # 3	A	98.705	AVRG	R		0.010131		pg	98.705	0	—	.99	20	
Aroclor-1248 Peak # 4	A	57.016	AVRG	R		0.017539		pg	57.016	0	—	.99	20	
Aroclor-1248 Peak # 5	A	36.728	AVRG	R		0.027227		pg	36.728	0	—	.99	20	
Aroclor-1248 Peak # 1	B	30.880	AVRG	R		0.032384		pg	30.880	0	—	.99	20	
Aroclor-1248 Peak # 2	B	110.93	AVRG	R		0.009014		pg	110.93	0	—	.99	20	
Aroclor-1248 Peak # 3	B	134.92	AVRG	R		0.007412		pg	134.92	0	—	.99	20	
Aroclor-1248 Peak # 4	B	135.64	AVRG	R		0.007372		pg	135.64	0	—	.99	20	
Aroclor-1248 Peak # 5	B	53.931	AVRG	R		0.018542		pg	53.931	0	—	.99	20	

FA 8/31/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1542,ar1248
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 8/31/04 10:58:03 AM
Data Acquisition Time : 8/30/04 6:27:22 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a007.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	8.870	163746.50	9.2012	1.000	1	9.20	1.84
Aroclor-1248	13.697	76239.18	47.9133	1.000	1	47.91	9.58
Decachlorobiphenyl_	22.381	70393.61	7.1848	1.000	1	7.18	1.44
		310379.29	64.2993			64.30	12.86

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.246	16405.64	61.6870	1.000	1	61.69	12.34
PCB1248#2	13.262	11721.09	30.1498	1.000	1	30.15	6.03
PCB1248#3	13.697	24676.33	85.6255	1.000	1	85.63	17.13
PCB1248#4	14.570	14254.00	37.9252	1.000	1	37.93	7.59
PCB1248#5	16.063	9182.12	33.7025	1.000	1	33.70	6.74
		76239.18	249.0901			249.09	49.82

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Report stored in ASCII file: G:\gc22\CHA\243a007.TX0

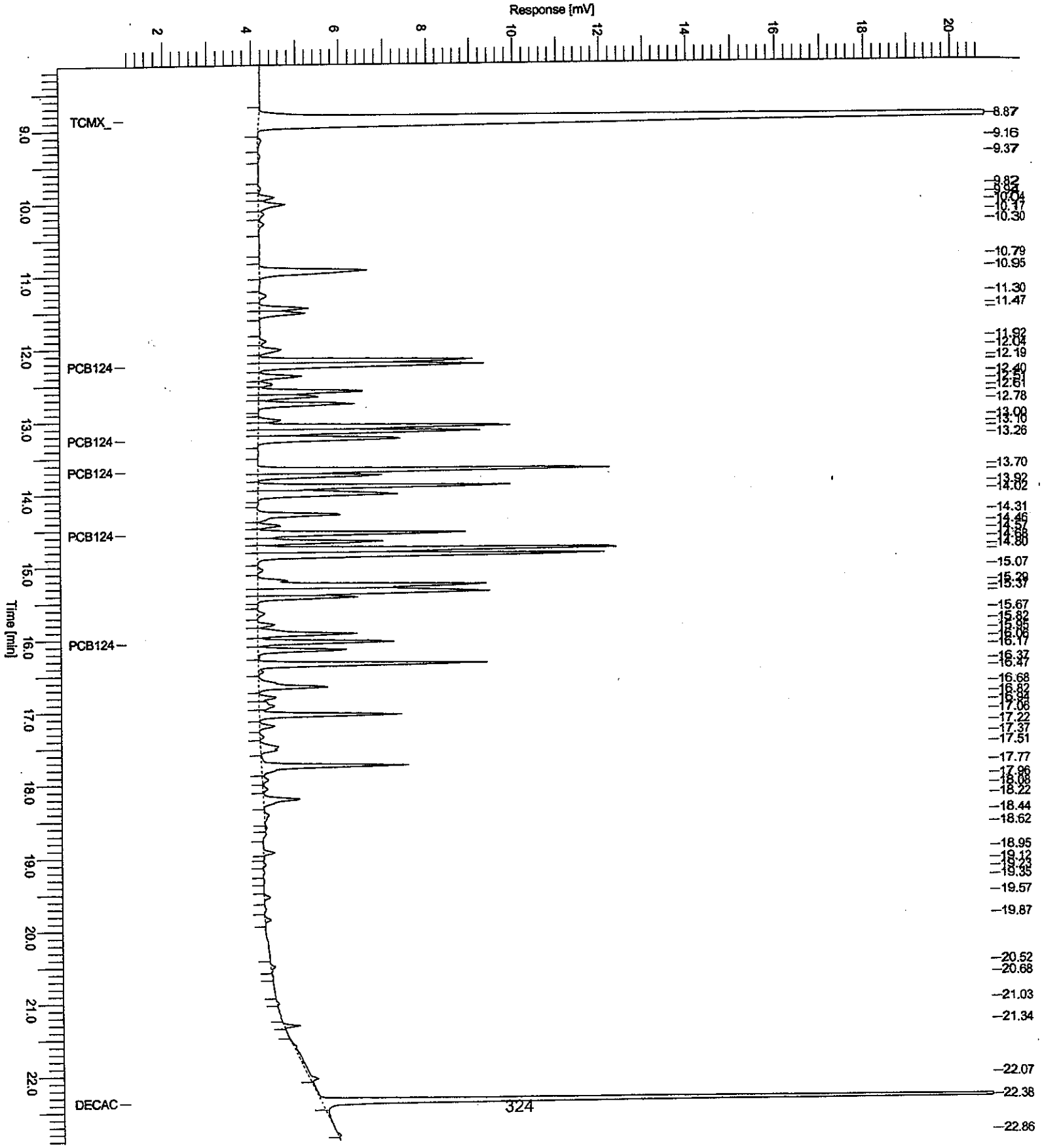
FA 8/31/04

GC21 Rtx-CLPesticides

ample Name : ccv,04ws1542,ar1248
leName : G:\gc22\cha\243a007.raw
ate : 8/31/04 10:58:07 AM
lethod :
tart Time : 8.12 min
lot Offset: 1.11 mV

Sample #: 250 ug/l

Time of Injection: 8/30/04 6:27:22 PM
End Time : 22.92 min
Plot Scale: 19.7 mV
Low Point : 1.11 mV
High Point : 20.79 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1542,ar1248
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 8/31/04 11:01:24 AM
Data Acquisition Time : 8/30/04 6:27:22 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b007p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	9.159	178897.06	13.2515	1.000	1	13.25	2.65
Aroclor-1248	15.318	116575.28	56.3511	1.000	1	56.35	11.27
Decachlorobiphenyl_	22.846	105338.00	15.4111	1.000	1	15.41	3.08
		400810.34	85.0138			85.01	17.00

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.814	7719.93	20.3468	1.000	1	20.35	4.07
PCB1248#2	13.770	27733.13	64.6029	1.000	1	64.60	12.92
PCB1248#3	14.096	33729.00	62.8470	1.000	1	62.85	12.57
PCB1248#4	15.318	33910.36	74.0379	1.000	1	74.04	14.81
PCB1248#5	16.151	13482.86	50.8157	1.000	1	50.82	10.16
		116575.28	272.6504			272.65	54.53

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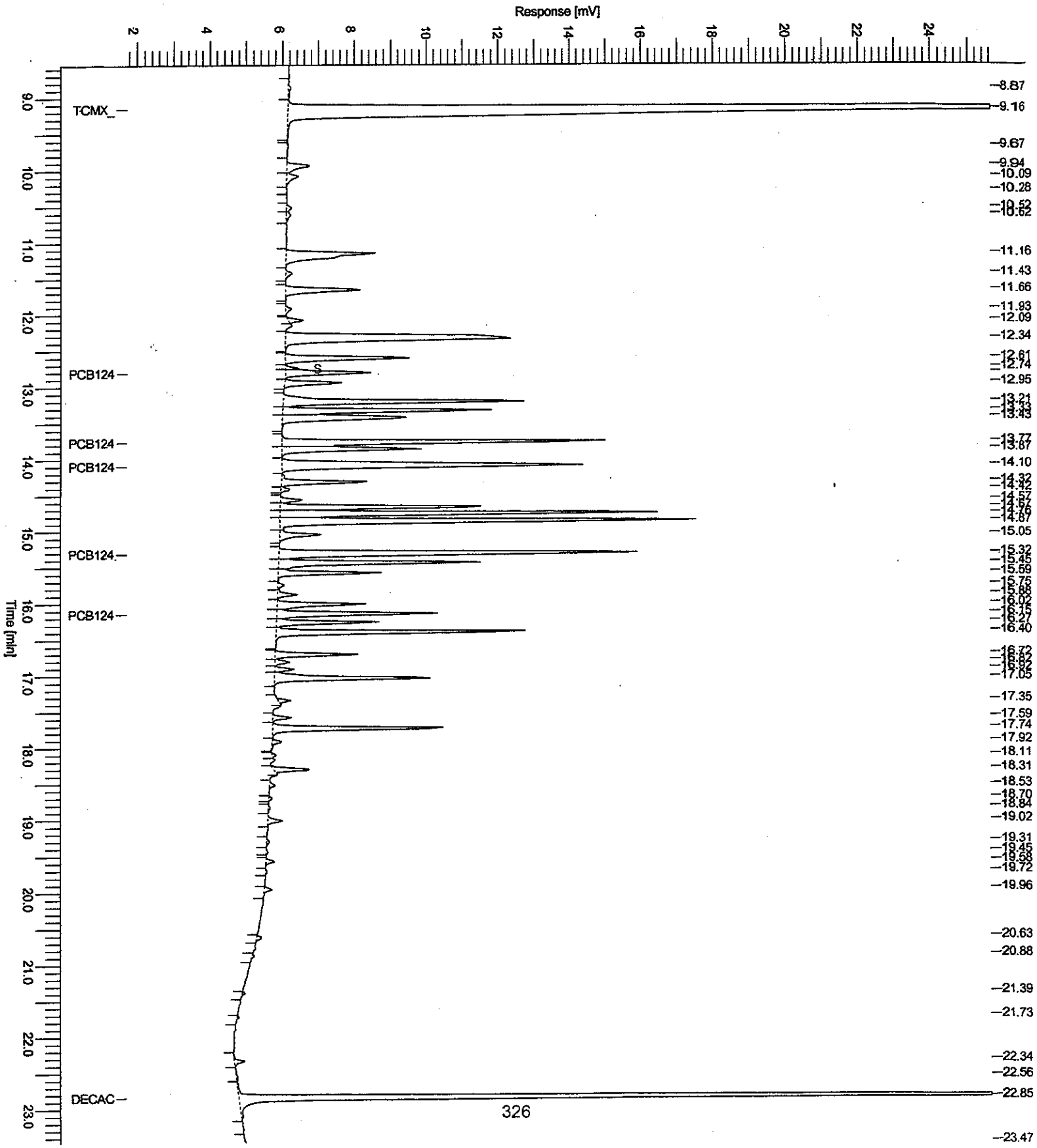
Report stored in ASCII file: G:\gc22\CHB\243b007p.TX0

FA 8/31/04

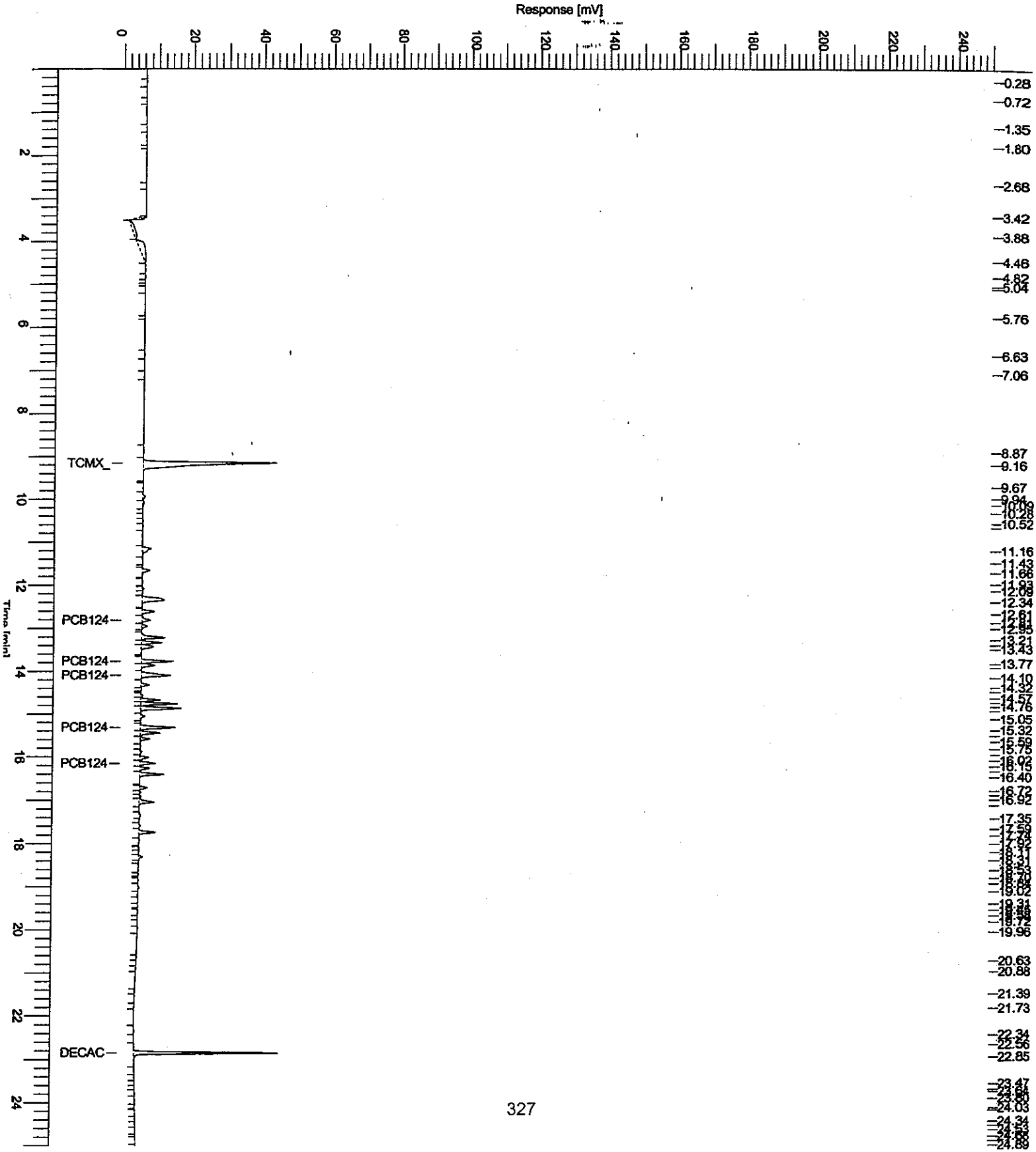
GC21 Rtx-CLPesticides II

Sample Name : ccv,04ws1542,ar1248 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\chb\243b007.raw
Date : 8/31/04 11:01:35 AM
Method :
Time of Injection: 8/30/04 6:27:22 PM
Start Time : 8.55 min End Time : 23.47 min Low Point : 1.72 mV High Point : 25.65 mV
Plot Offset: 1.72 mV Plot Scale: 23.9 mV



GC21 Rbx-CLPesticides II

ample Name : ccv,04ws1542,ar1248 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc22\chb\243b007
ate : 8/31/04 10:39:11 AM
lethod : gc22ins Time of Injection: 8/30/04 6:27:22 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 250.00 mV
lot Offset: 0.00 mV Plot Scale: 250.0 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204350924022
Calnum : 204350924001
Standards: 04WS1423

Run Name : pcb250_50
Filename : 243_022
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 01:10
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	255.3452	pg	2	15	
Aroclor-1260	A			250.0000	253.6064	pg	1	15	
TCMX	A	16523	16744	50.00000	50.66747	pg	1	15	
Decachlorobiphenyl	A	11264	11119	50.00000	49.35723	pg	-1	15	
Aroclor-1016	B			250.0000	252.3872	pg	1	15	
Aroclor-1260	B			250.0000	251.5065	pg	1	15	
TCMX	B	21265	22052	50.00000	51.84955	pg	4	15	
Decachlorobiphenyl	B	11474	11300	50.00000	49.24257	pg	-2	15	

8/31/04

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1423,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/22
Sample Amount : 1.000000
Cycle : 22

Date : 8/31/04 12:04:52 PM
Data Acquisition Time : 8/31/04 1:10:42 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a022p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	837198.84	50.67	1.0000	1	50.67	10.13
Aroclor-1016	10.821	763276.71	255.53	1.0000	1	255.53	51.11
Aroclor-1260	18.253	1124252.29	253.29	1.0000	1	253.29	50.66
Decachlorobiphenyl	21.587	555953.87	49.36	1.0000	1	49.36	9.87
		3280681.70	608.85			608.85	121.77

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.619	103904.67	256.80	1.0000	1	256.80	51.36
PCB1016#2	9.586	191786.59	261.47	1.0000	1	261.47	52.29
PCB1016#3	10.821	212964.39	253.42	1.0000	1	253.42	50.68
PCB1016#4	11.165	137646.52	251.70	1.0000	1	251.70	50.34
PCB1016#5	12.219	116974.54	253.33	1.0000	1	253.33	50.67
		763276.71	1276.73			1276.73	255.35

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.268	195468.06	247.13	1.0000	1	247.13	49.43
PCB1260#2	15.947	304157.28	248.89	1.0000	1	248.89	49.78
PCB1260#3	16.907	147164.03	253.79	1.0000	1	253.79	50.76
PCB1260#4	17.515	155647.94	260.29	1.0000	1	260.29	52.06
PCB1260#5	18.253	321814.98	257.93	1.0000	1	257.93	51.59
		1124252.29	1268.03			1268.03	253.61

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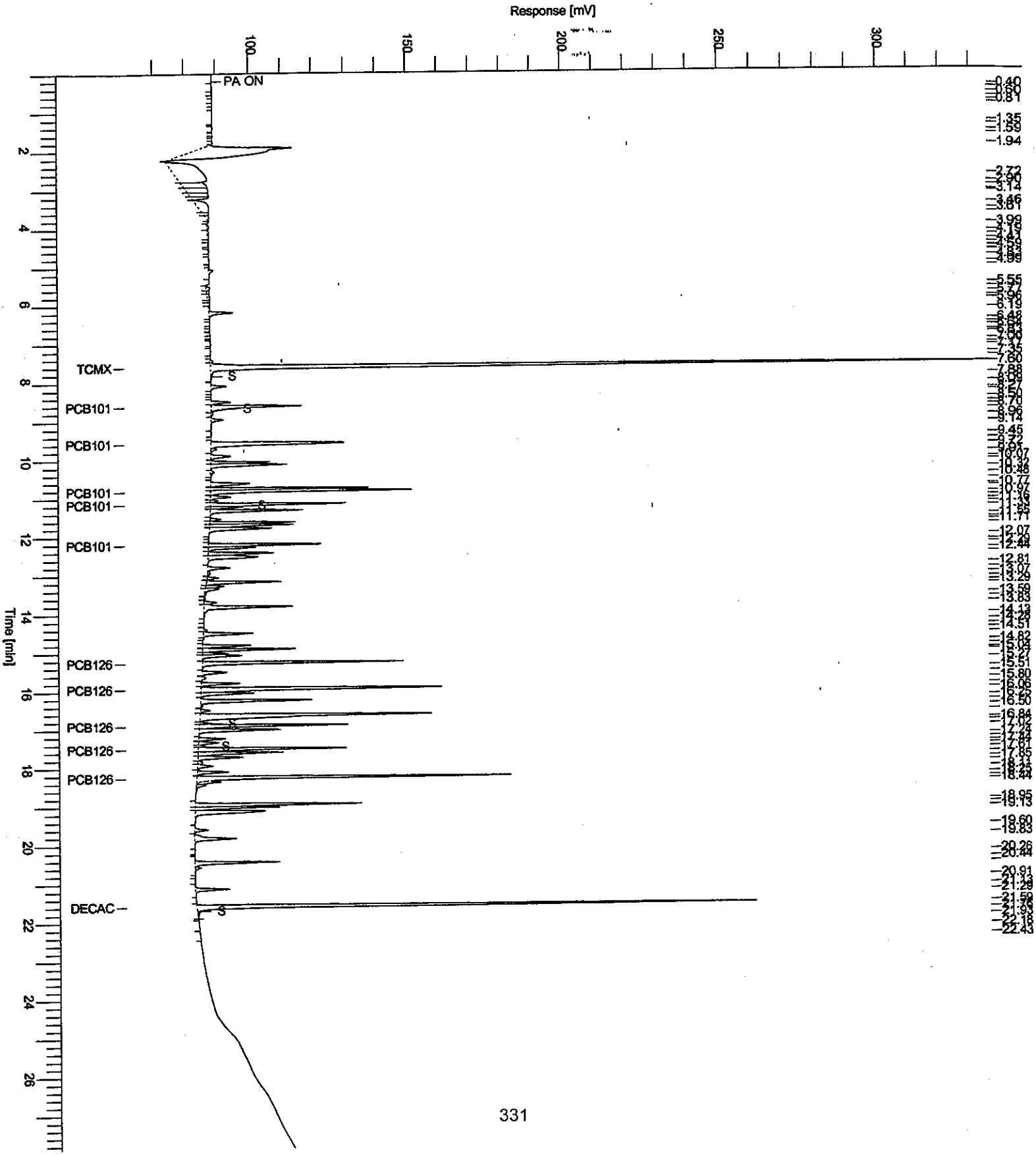
Report stored in ASCII file: G:\gc06\cha\243a022p.TX0

8/31/04

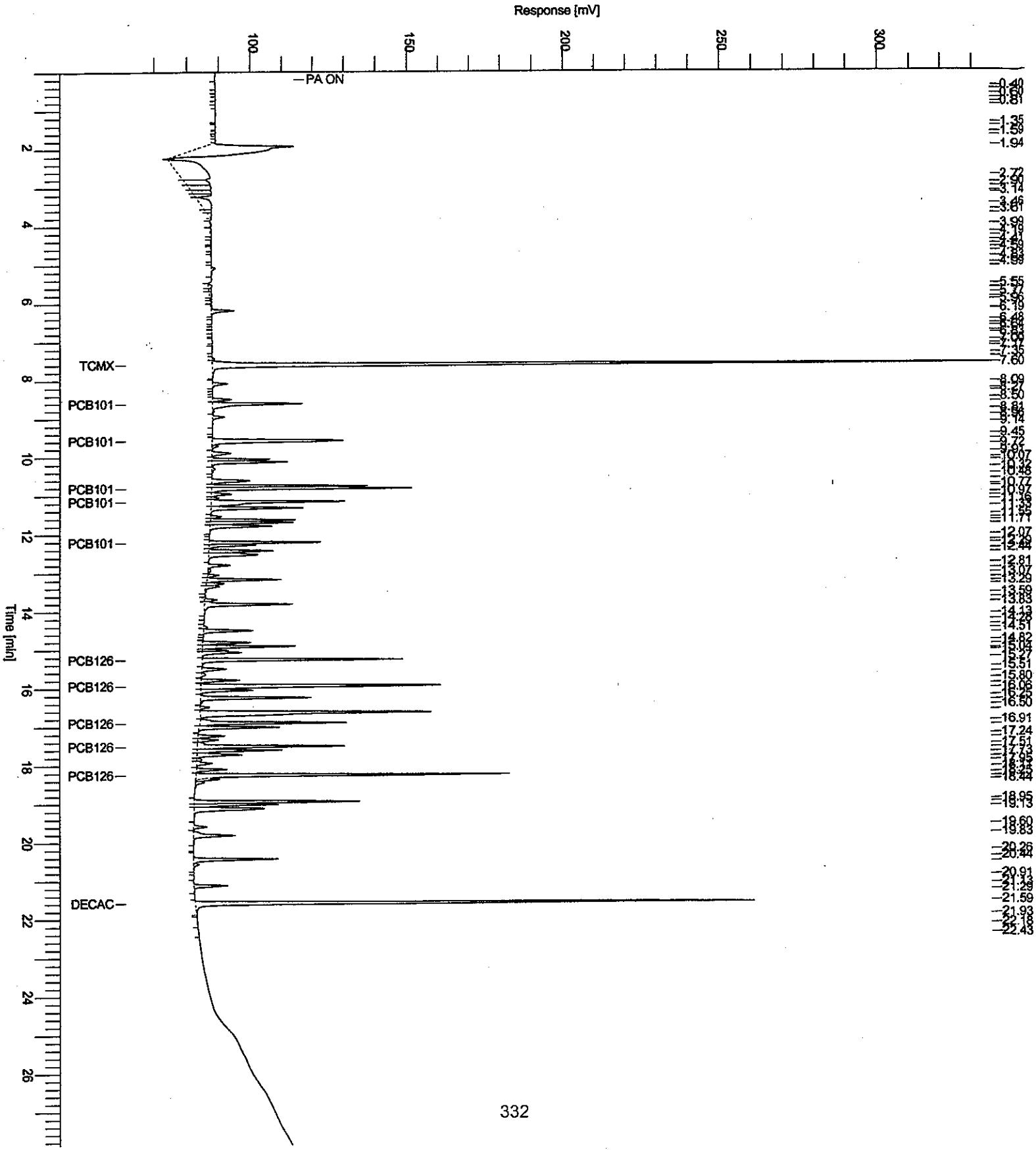
GC 06 Rtx-CLPesticides

Sample Name : ccv,04ws1423,pcb250_50 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\cha\243a022.raw
Date : 8/31/04 12:04:59 PM
Method :
Time of Injection: 8/31/04 1:10:42 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 60.56 mV High Point : 335.85 mV
Plot Offset: 60.56 mV Plot Scale: 275.3 mV



GC 06 Rtx-CLPesticides

Sample Name : ccv,04ws1423,pcb250_50 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\cha\243a022.raw
Date : 8/31/04 11:55:53 AM
Method : gc06fsa1ul Time of Injection: 8/31/04 1:10:42 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 61.25 mV High Point : 335.85 mV
Scale Factor: 1.0 Plot Offset: 61.25 mV Plot Scale: 274.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1423,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/22
Sample Amount : 1.000000
Cycle : 22

Date : 8/31/04 12:08:14 PM
Data Acquisition Time : 8/31/04 1:10:42 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b022p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	1102593.96	51.85	1.0000	1	51.85	10.37
Aroclor-1016	9.373	1095397.99	252.27	1.0000	1	252.27	50.45
Aroclor-1260	16.827	1398296.25	250.88	1.0000	1	250.88	50.18
Decachlorobiphenyl	20.613	565013.83	49.24	1.0000	1	49.24	9.85
		4161302.03	604.24			604.24	120.85

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.234	131936.31	259.08	1.0000	1	259.08	51.82
PCB1016#2	8.712	166366.87	249.04	1.0000	1	249.04	49.81
PCB1016#3	9.373	452484.86	252.23	1.0000	1	252.23	50.45
PCB1016#4	9.625	203901.48	254.22	1.0000	1	254.22	50.84
PCB1016#5	10.751	140708.46	247.37	1.0000	1	247.37	49.47
		1095397.99	1261.94			1261.94	252.39

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	287231.07	249.58	1.0000	1	249.58	49.92
PCB1260#2	14.493	298287.32	242.83	1.0000	1	242.83	48.57
PCB1260#3	15.596	198454.67	258.71	1.0000	1	258.71	51.74
PCB1260#4	16.173	200470.84	253.55	1.0000	1	253.55	50.71
PCB1260#5	16.827	413852.35	252.87	1.0000	1	252.87	50.57
		1398296.25	1257.53			1257.53	251.51

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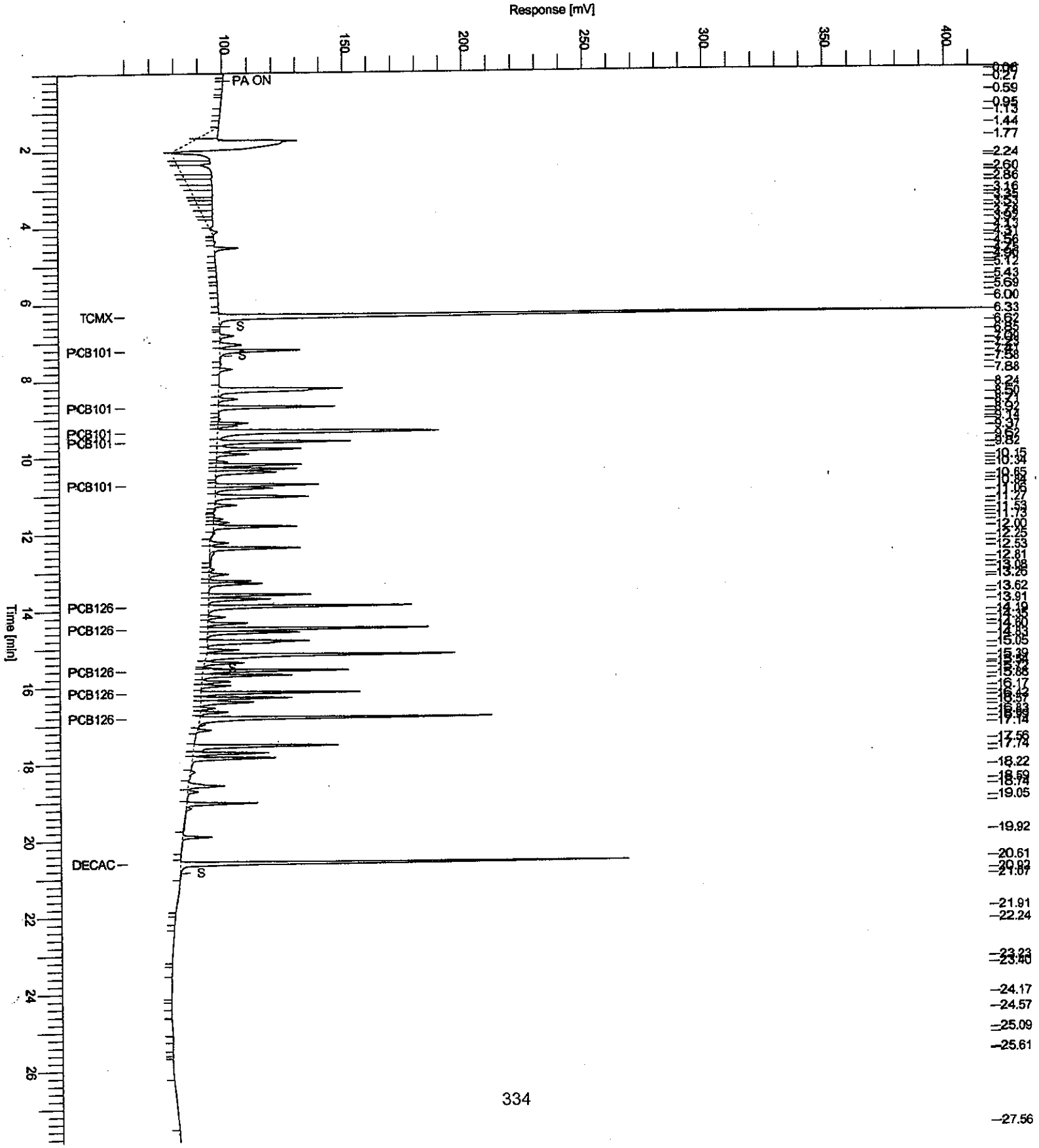
Report stored in ASCII file: G:\gc06\chb\243b022p.TX0

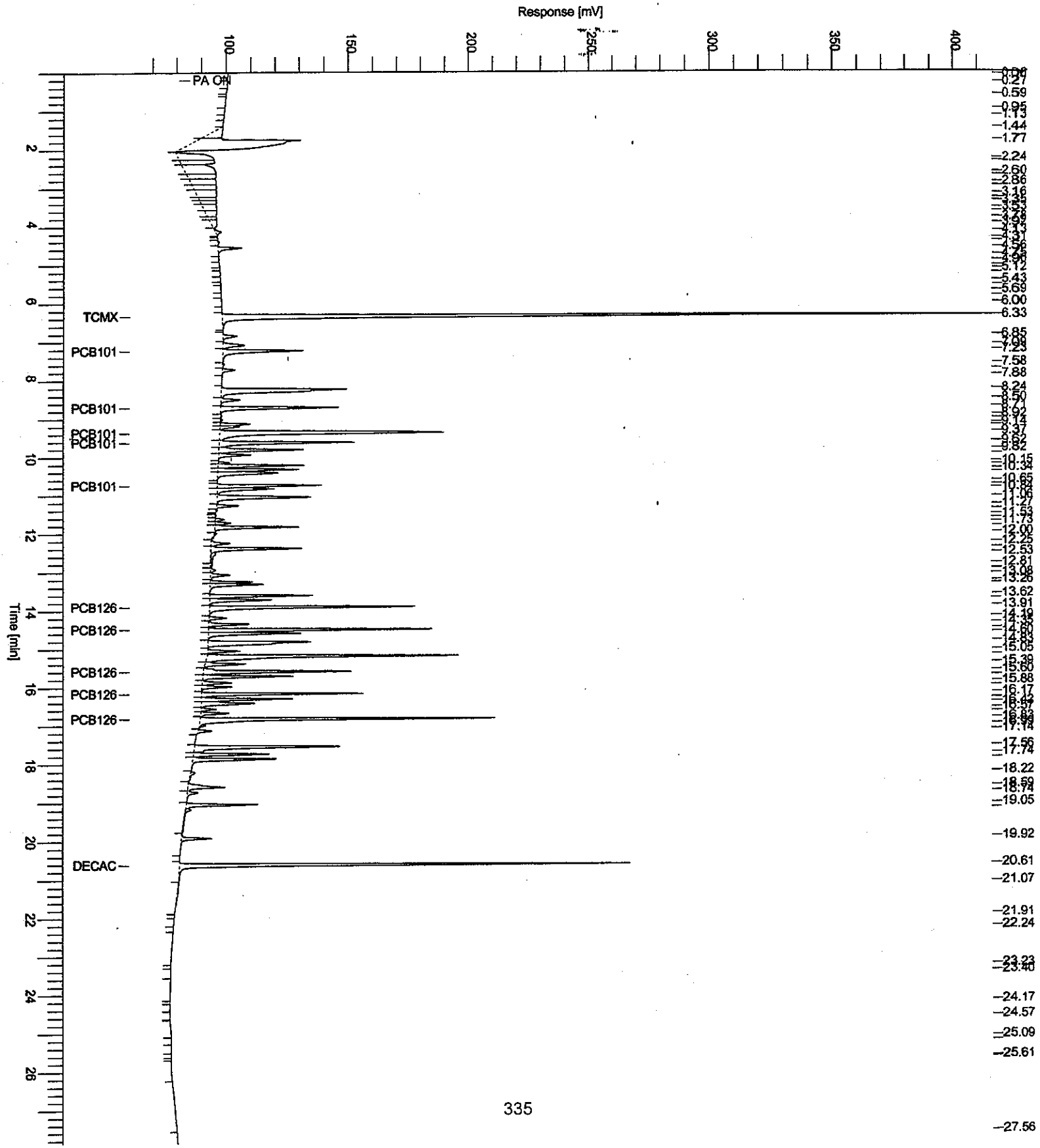
GC 06 Rtx-5

Sample Name: ccv,04ws1423,pcb250_50 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\chb\243b022.raw
Date : 8/31/04 12:08:21 PM
Method :
Time of Injection: 8/31/04 1:10:42 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 59.72 mV High Point : 416.51 mV
Plot Offset: 59.72 mV Plot Scale: 356.8 mV



GC 06 Rtx-5

Sample Name : ccv,04ws1423,pcb250_50 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc06\chb\243b022
Date : 8/31/04 11:56:24 AM
Method : gc06fsa1ul Time of Injection: 8/31/04 1:10:42 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 60.61 mV High Point : 416.51 mV
Scale Factor: 1.0 Plot Offset: 60.61 mV Plot Scale: 355.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204350924038
Calnum : 204350924001
Standards: 04WS0963

Run Name : pcb500_100
Filename : 243_038
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 10:01
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	438.2049	pg	-12	15	
Aroclor-1260	A			500.0000	441.2550	pg	-12	15	
TCMX	A	16523	14608	100.0000	88.40878	pg	-12	15	
Decachlorobiphenyl	A	11264	10085	100.0000	89.53550	pg	-10	15	
Aroclor-1016	B			500.0000	443.2018	pg	-11	15	
Aroclor-1260	B			500.0000	435.9485	pg	-13	15	
TCMX	B	21265	19283	100.0000	90.67923	pg	-9	15	
Decachlorobiphenyl	B	11474	10352	100.0000	90.22466	pg	-10	15	

jw 8/31/04

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0963,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/38
Sample Amount : 1.000000
Cycle : 38

Date : 8/31/04 12:31:18 PM
Data Acquisition Time : 8/31/04 10:01:44 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\243a038p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.600	1460813.74	88.41	1.0000	1	88.41	17.68
Aroclor-1016	10.813	1309070.94	438.25	1.0000	1	438.25	87.65
Aroclor-1260	18.253	1955595.14	440.60	1.0000	1	440.60	88.12
Decachlorobiphenyl	21.587	1008517.11	89.54	1.0000	1	89.54	17.91
		5733996.92	1056.79			1056.79	211.36

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.615	178280.62	440.63	1.0000	1	440.63	88.13
PCB1016#2	9.581	318281.58	433.93	1.0000	1	433.93	86.79
PCB1016#3	10.813	370946.05	441.42	1.0000	1	441.42	88.28
PCB1016#4	11.160	240975.40	440.65	1.0000	1	440.65	88.13
PCB1016#5	12.216	200587.29	434.40	1.0000	1	434.40	86.88
		1309070.94	2191.02			2191.02	438.20

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.267	336038.18	424.85	1.0000	1	424.85	84.97
PCB1260#2	15.933	518493.67	424.29	1.0000	1	424.29	84.86
PCB1260#3	16.907	257024.23	443.26	1.0000	1	443.26	88.65
PCB1260#4	17.507	272624.77	455.90	1.0000	1	455.90	91.18
PCB1260#5	18.253	571414.28	457.98	1.0000	1	457.98	91.60
		1955595.14	2206.28			2206.28	441.26

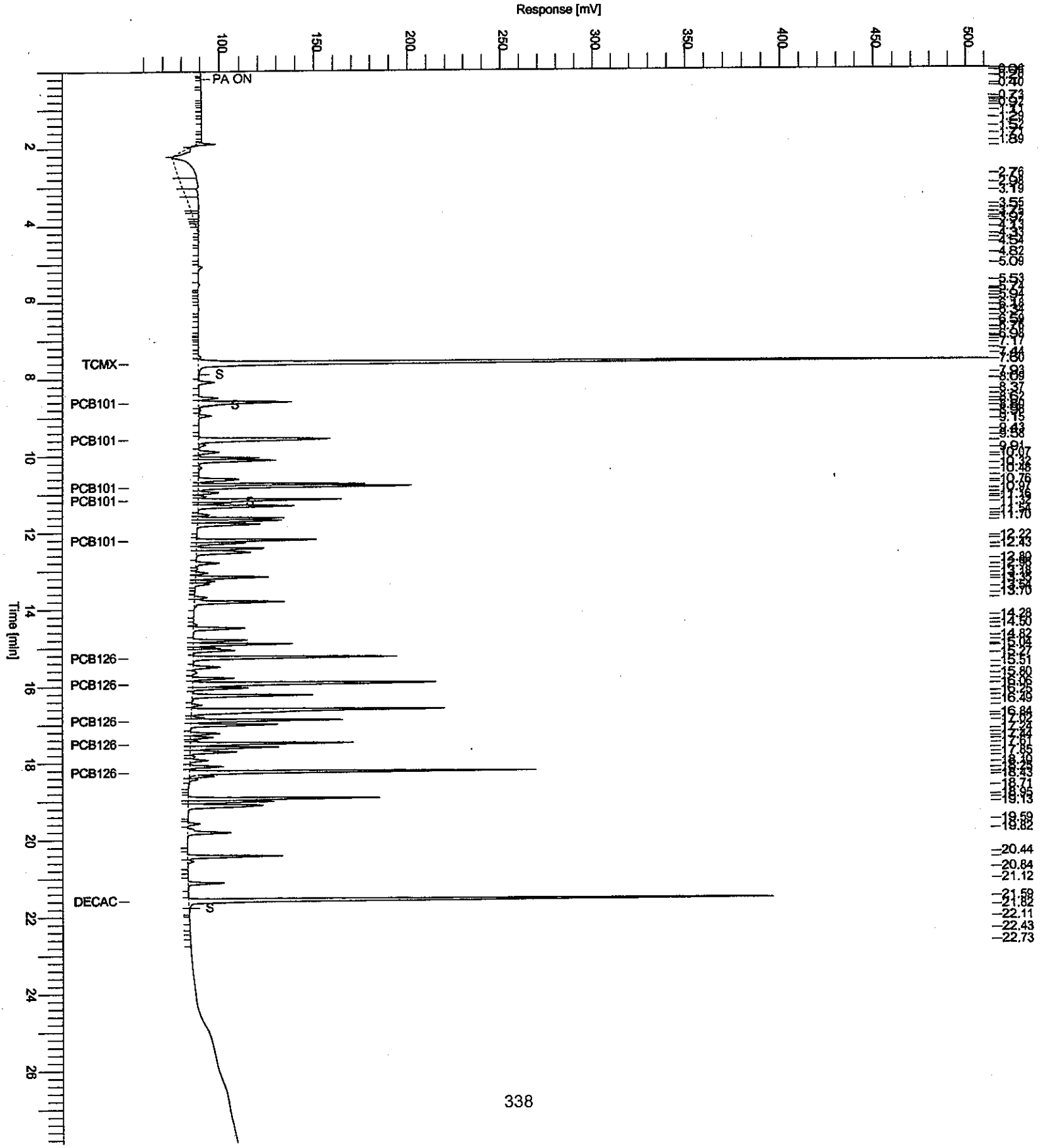
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\243a038p.TX0

8/31/04

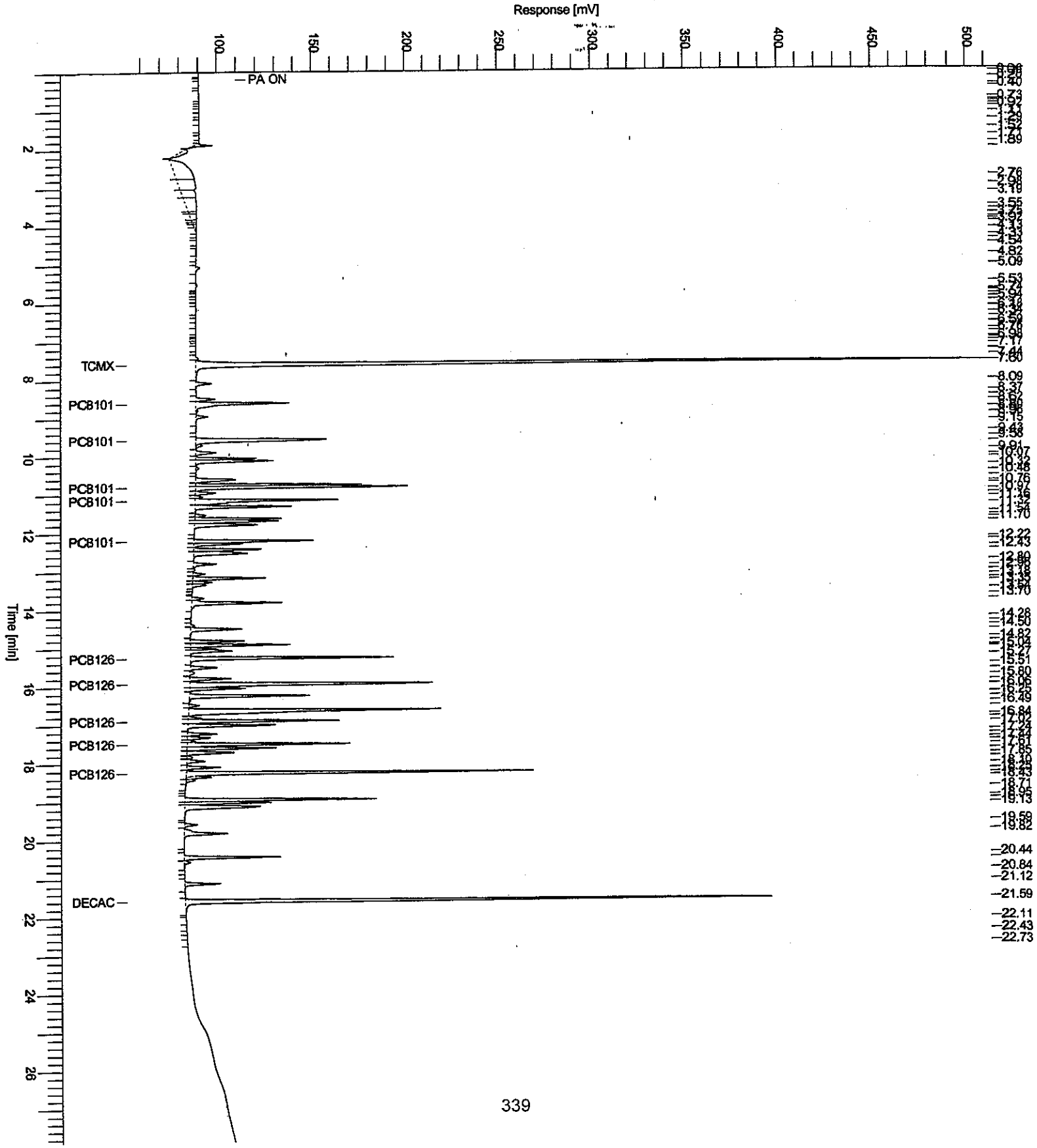
GC 06 Rtx-CLPesticides

Sample Name : ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc06\cha\243a038.raw
Date : 8/31/04 12:31:46 PM
Method :
Time of Injection: 8/31/04 10:01:44 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 51.89 mV High Point : 512.41 mV
Plot Offset: 51.89 mV Plot Scale: 460.5 mV



GC 06 Rtx-CLPesticides

Sample Name: ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : C:\gc06\cha\243a038.raw
Date : 8/31/04 12:25:46 PM
Method : gc06fsa1ul Time of Injection: 8/31/04 10:01:44 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 53.04 mV High Point : 512.41 mV
Scale Factor: 1.0 Plot Offset: 53.04 mV Plot Scale: 459.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws0963,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/38
Sample Amount : 1.000000
Cycle : 38

Date : 8/31/04 12:35:18 PM
Data Acquisition Time : 8/31/04 10:01:44 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\243b038p.rst
Sequence File : G:\gc06\files\243.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.333	1928316.84	90.68	1.0000	1	90.68	18.14
Aroclor-1016	9.360	1933006.47	445.17	1.0000	1	445.17	89.03
Aroclor-1260	16.827	2440243.65	437.82	1.0000	1	437.82	87.56
Decachlorobiphenyl	20.613	1035246.29	90.22	1.0000	1	90.22	18.04
		7336813.25	1063.90			1063.90	212.78

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.227	226307.83	444.39	1.0000	1	444.39	88.88
PCB1016#2	8.707	289119.91	432.80	1.0000	1	432.80	86.56
PCB1016#3	9.360	807332.60	450.03	1.0000	1	450.03	90.01
PCB1016#4	9.613	359974.21	448.81	1.0000	1	448.81	89.76
PCB1016#5	10.747	250271.92	439.99	1.0000	1	439.99	88.00
		1933006.47	2216.01			2216.01	443.20

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.907	505911.76	439.60	1.0000	1	439.60	87.92
PCB1260#2	14.493	506071.08	411.98	1.0000	1	411.98	82.40
PCB1260#3	15.587	329429.17	429.44	1.0000	1	429.44	85.89
PCB1260#4	16.173	347717.84	439.78	1.0000	1	439.78	87.96
PCB1260#5	16.827	751113.80	458.94	1.0000	1	458.94	91.79
		2440243.65	2179.74			2179.74	435.95

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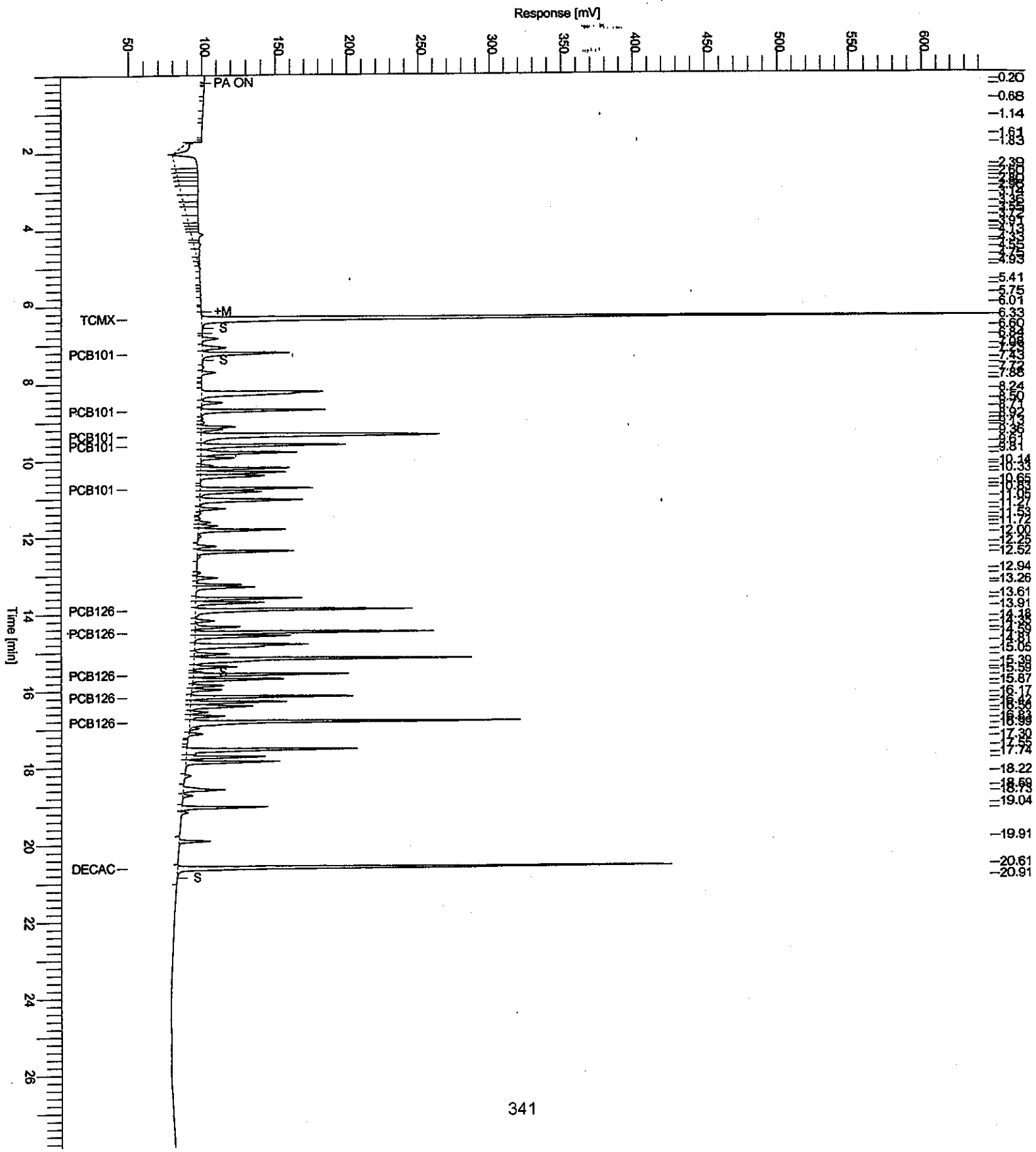
Report stored in ASCII file: G:\gc06\chb\243b038p.TX0

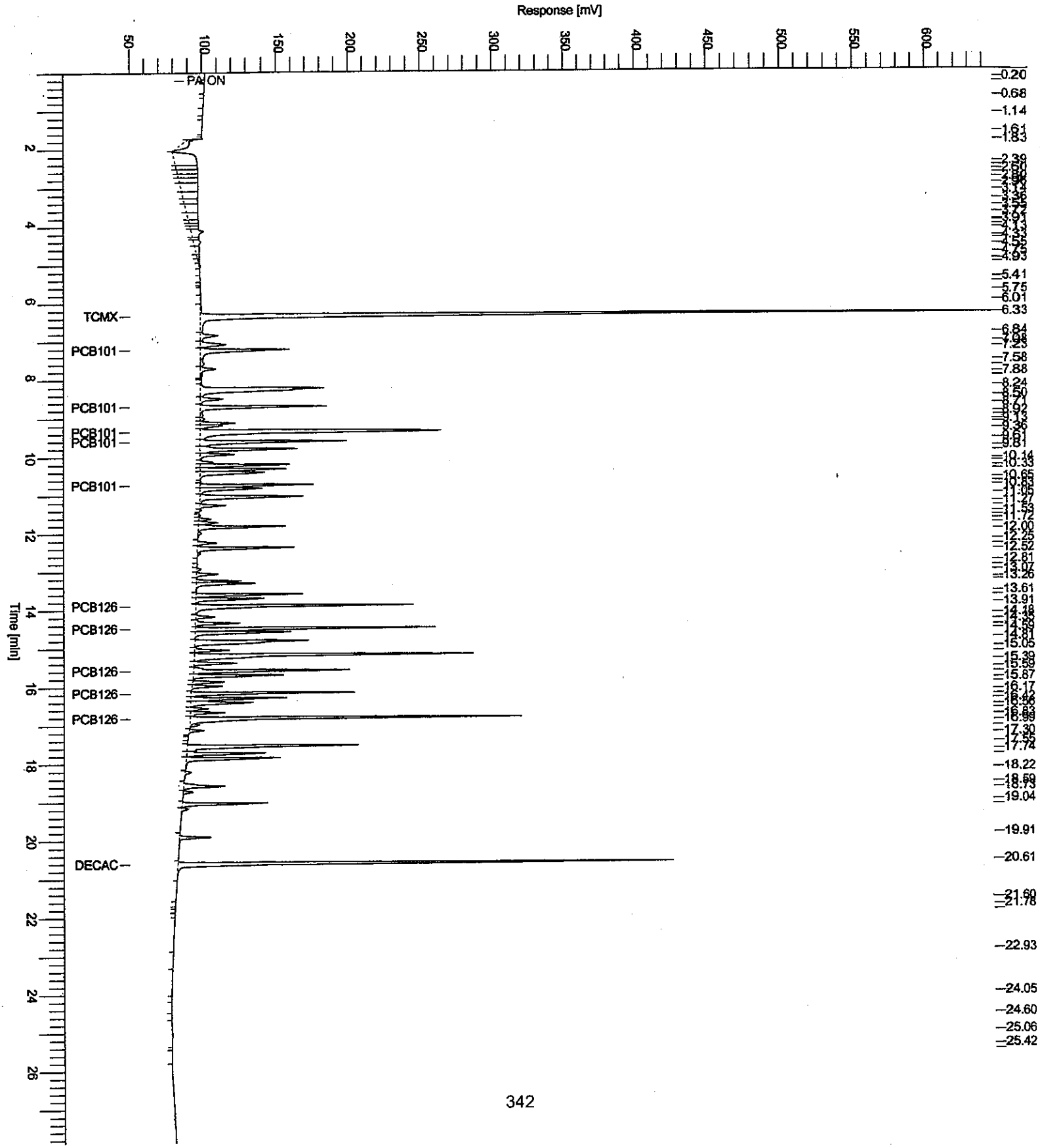
GC 06 Rtx-5

Sample Name : ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc06\chb\243b038.raw
Date : 8/31/04 12:35:58 PM
Method :
Time of Injection: 8/31/04 10:01:44 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 48.47 mV High Point : 647.17 mV
Plot Offset: 48.47 mV Plot Scale: 598.7 mV



GC 06 Rtx-5

Sample Name : ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc06\chb\243b038
Date : 8/31/04 12:26:02 PM
Method : gc06fsa1ul Time of Injection: 8/31/04 10:01:44 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 49.97 mV High Point : 647.17 mV
Scale Factor: 1.0 Plot Offset: 49.97 mV Plot Scale: 597.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254350716058
Calnum : 254347030001
Standards: 04WS0963

Run Name : pcb500_100
Filename : 243_058
Caldate : 27-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 19:44
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	498.8965	pg	0	15	
Aroclor-1260	A			500.0000	484.2785	pg	-3	15	
TCMX	A	3285.2	3182.7	100.0000	96.88070	pg	-3	15	
Decachlorobiphenyl	A	1832.7	1648.6	100.0000	89.95373	pg	-10	15	
Aroclor-1016	B			500.0000	562.4962	pg	12	15	
Aroclor-1260	B			500.0000	471.7301	pg	-6	15	
TCMX	B	3641.6	3442.0	100.0000	94.51757	pg	-5	15	
Decachlorobiphenyl	B	2450.9	2398.7	100.0000	97.87012	pg	-2	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0963,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 58

Date : 9/1/04 1:37:50 PM
Data Acquisition Time : 8/31/04 7:44:51 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a058p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.833	318269.04	96.8807	1.000	1	96.88	19.38
Aroclor-1016	12.213	226397.32	496.9740	1.000	1	496.97	99.39
Aroclor-1260	19.850	385058.53	480.9869	1.000	1	480.99	96.20
Decachlorobiphenyl	22.364	164856.10	89.9537	1.000	1	89.95	17.99
		1094580.98	1164.7953			1164.80	232.96

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.901	29945.93	511.9064	1.000	1	511.91	102.38
PCB1016#3	12.573	45993.96	476.5510	1.000	1	476.55	95.31
PCB1016#4	12.747	35115.13	508.0253	1.000	1	508.03	101.61
PCB1016#2	12.213	76452.34	497.2234	1.000	1	497.22	99.44
PCB1016#5	13.664	38889.96	500.7772	1.000	1	500.78	100.16
		226397.32	2494.4833			2494.48	498.90

FA 9/01/04

Group Report For : Aroclor-1260

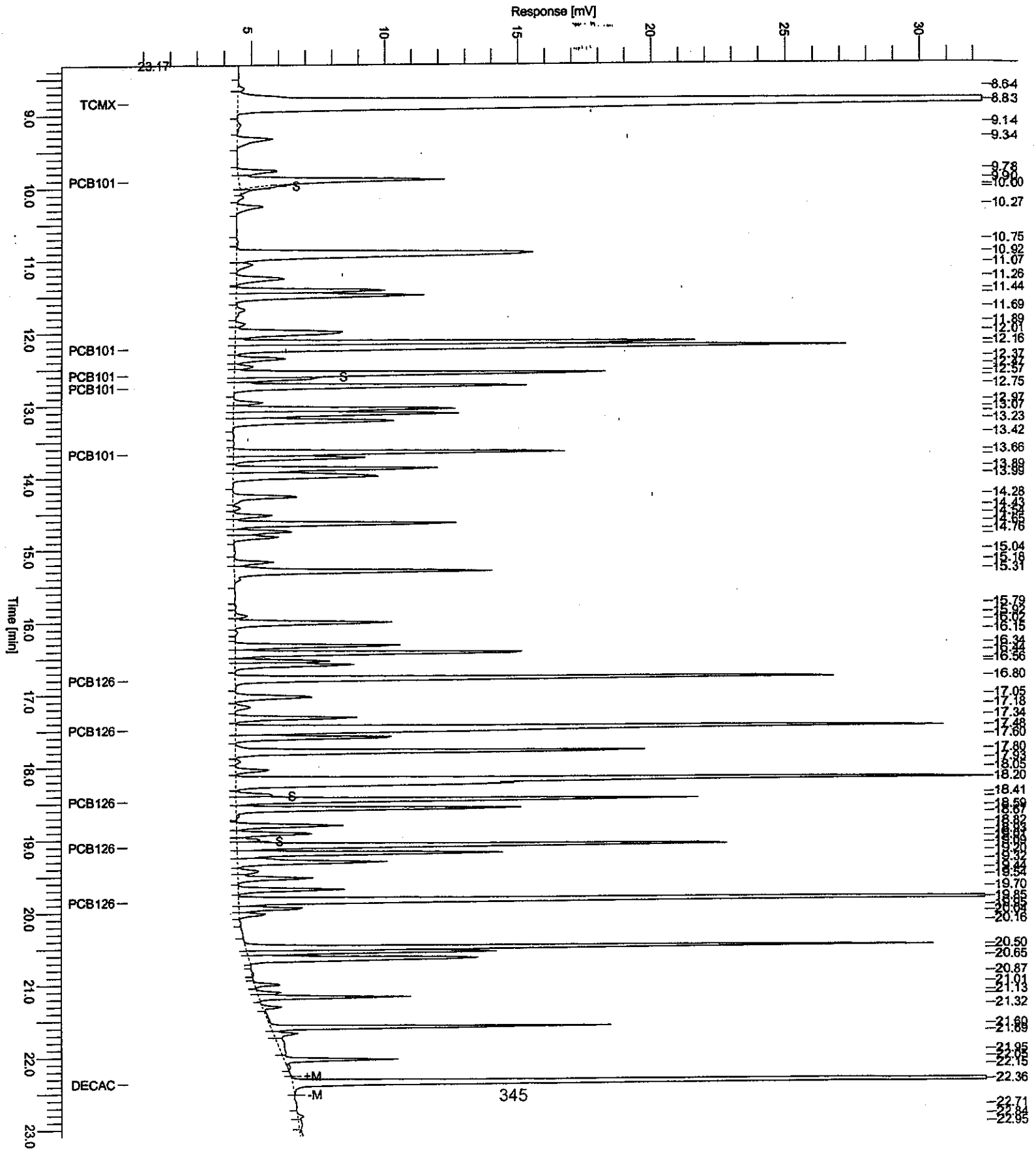
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.795	66166.00	497.7581	1.000	1	497.76	99.55
PCB1260#2	17.484	101258.07	481.7967	1.000	1	481.80	96.36
PCB1260#3	18.467	48881.11	489.7885	1.000	1	489.79	97.96
PCB1260#4	19.095	55815.77	487.6984	1.000	1	487.70	97.54
PCB1260#5	19.850	112937.58	464.3511	1.000	1	464.35	92.87
		385058.53	2421.3928			2421.39	484.28

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\243a058p.TX0

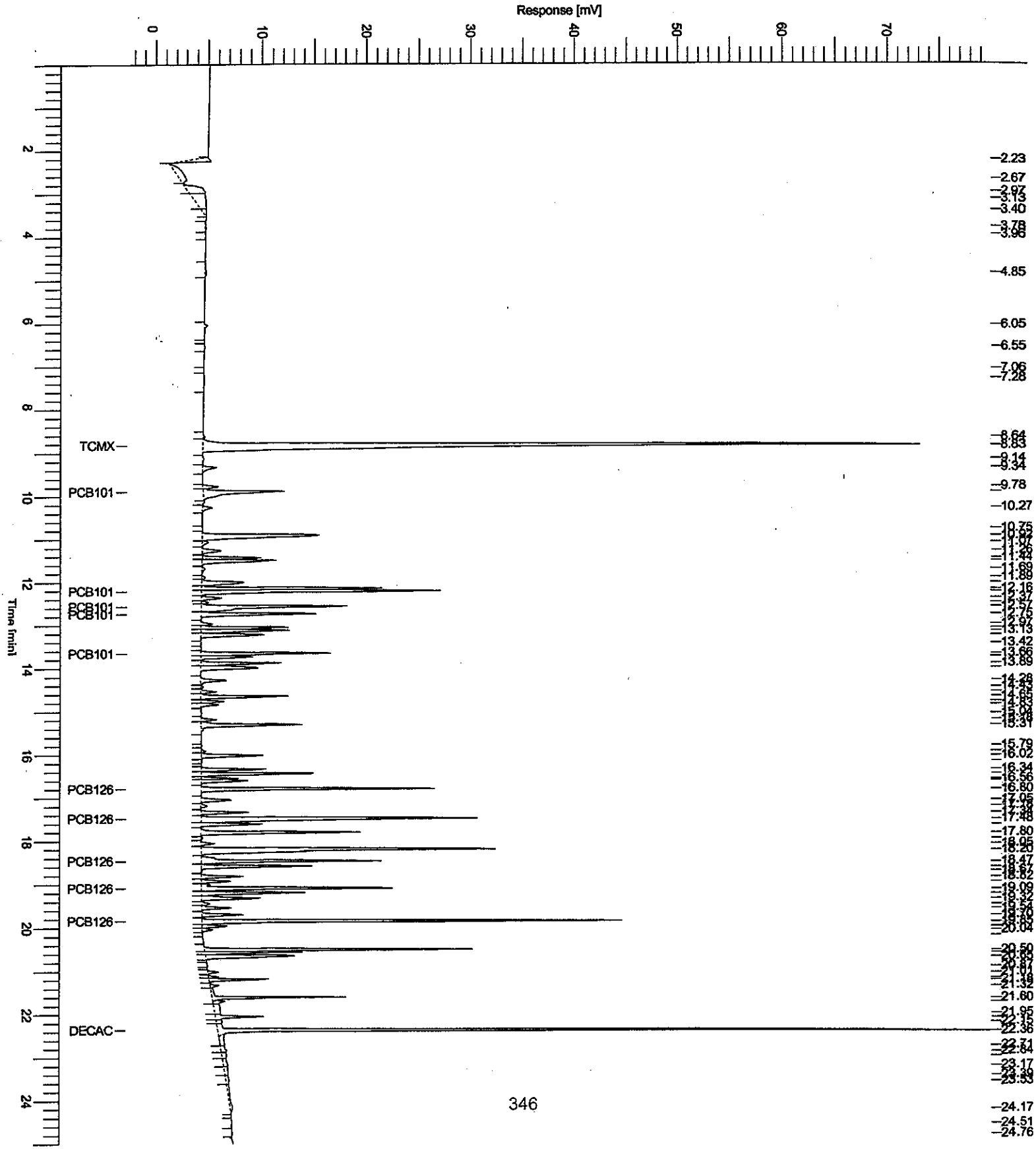
GC22 Rtx-CLPesticides

Sample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc22\cha\243a058.raw
Date : 9/1/04 1:37:54 PM
Method :
Time of Injection: 8/31/04 7:44:51 PM
Start Time : 8.32 min End Time : 23.10 min Low Point : 0.42 mV High Point : 32.33 mV
Plot Offset: 0.42 mV Plot Scale: 31.9 mV



GC22 Rtx-CLPesticides

ample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
ileName : G:\gc22\cha\243a058.raw
ate : 9/1/04 1:13:42 PM
lethod : gc22ins Time of Injection: 8/31/04 7:44:51 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.75 mV High Point : 79.88 mV
cale Factor: 1.0 Plot Offset: -2.75 mV Plot Scale: 82.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0963,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 58

Date : 9/1/04 1:41:42 PM
Data Acquisition Time : 8/31/04 7:44:51 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b058p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.140	344195.04	94.5176	1.000	1	94.52	18.90
Aroclor-1016	12.314	305595.30	593.7205	1.000	1	593.72	118.74
Aroclor-1260	19.939	429241.35	468.5083	1.000	1	468.51	93.70
Decachlorobiphenyl	22.832	239870.88	97.8701	1.000	1	97.87	19.57
		1318902.56	1254.6165			1254.62	250.92

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.071	33057.53	557.2135	1.000	1	557.21	111.44
PCB1016#2	11.640	44222.00	504.2717	1.000	1	504.27	100.85
PCB1016#3	12.314	133647.00	745.6337	1.000	1	745.63	149.13
PCB1016#4	12.587	55055.00	500.7019	1.000	1	500.70	100.14
PCB1016#5	13.750	39613.77	504.6598	1.000	1	504.66	100.93
		305595.30	2812.4806			2812.48	562.50

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.982	80915.42	466.0958	1.000	1	466.10	93.22
PCB1260#2	17.566	86391.31	465.2503	1.000	1	465.25	93.05
PCB1260#3	18.686	56280.22	479.3863	1.000	1	479.39	95.88
PCB1260#4	19.285	63054.00	488.5642	1.000	1	488.56	97.71
PCB1260#5	19.939	142600.39	459.3545	1.000	1	459.35	91.87
		429241.35	2358.6510			2358.65	471.73

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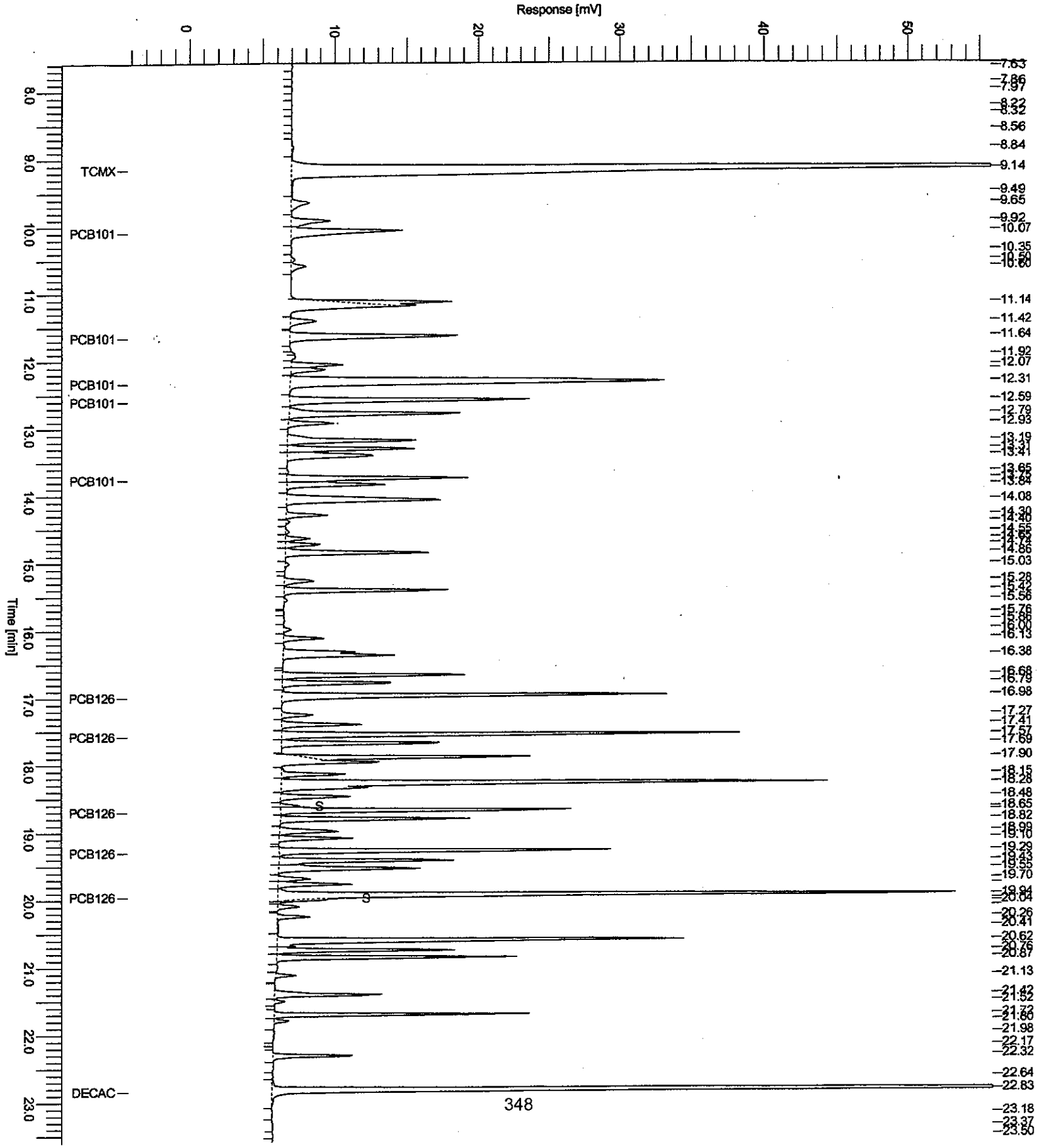
Report stored in ASCII file: G:\gc22\CHB\243b058p.TX0

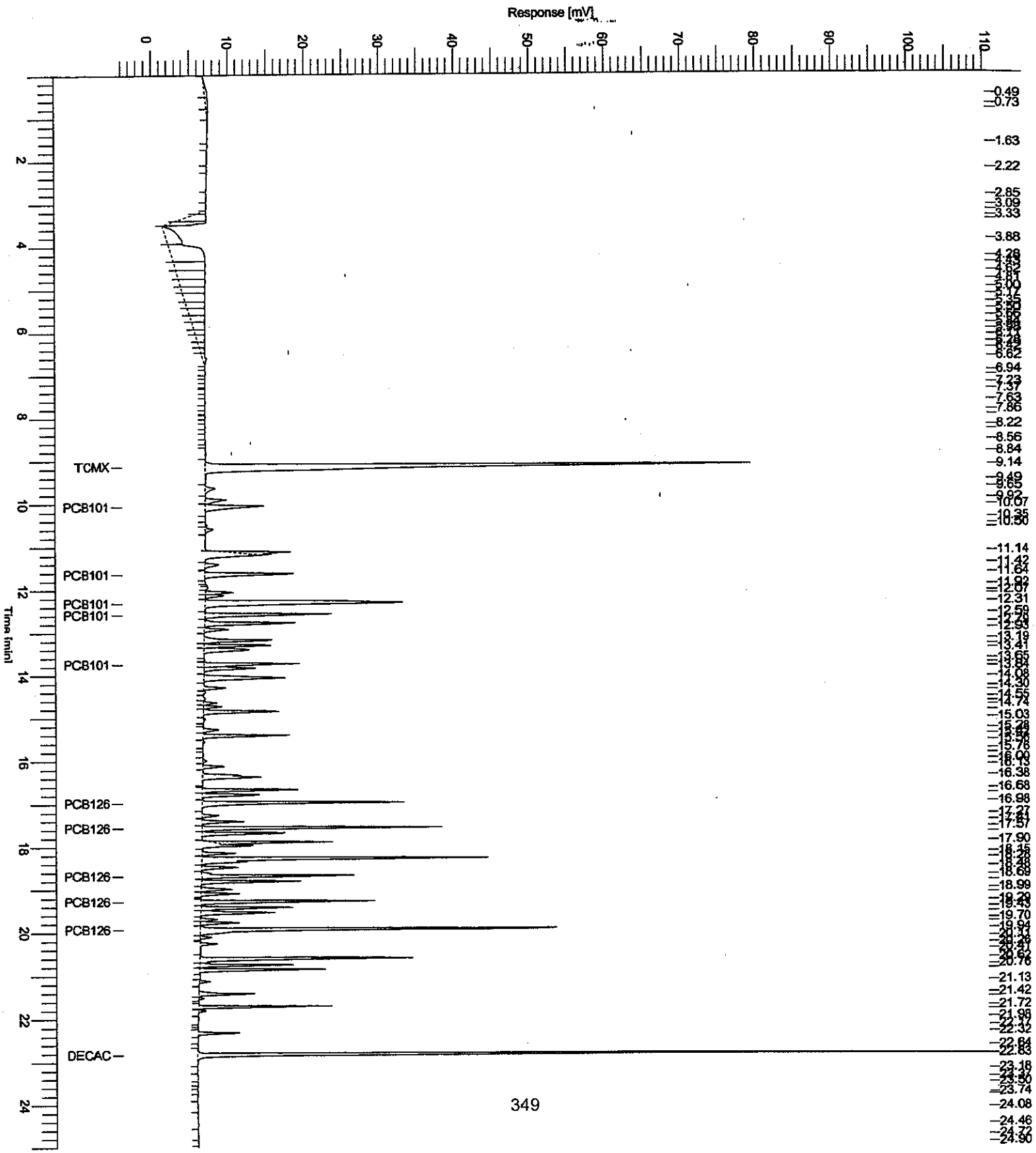
GC22 Rtx-CLPesticides II

Sample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc22\chb\243b058.raw
Date : 9/1/04 1:41:47 PM
Method :
Time of Injection: 8/31/04 7:44:51 PM
Start Time : 7.58 min End Time : 23.60 min Low Point : -4.29 mV High Point : 55.73 mV
Plot Offset: -4.29 mV Plot Scale: 60.0 mV



GC22 Rtx-CLPesticides II

Sample Name :x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l
FileName : G:\gc22\chb\243b058
Date : 9/1/04 1:14:07 PM
Method : gc22ins Time of Injection: 8/31/04 7:44:51 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -4.00 mV High Point : 110.36 mV
Scale Factor: 1.0 Plot Offset: -4.00 mV Plot Scale: 114.4 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254350716061
Calnum : 254350716002
Standards: 04WS1542

Run Name : ar 1248
Filename : 243_061
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 21:09
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1248	A			250.0000	255.1652	pg	2	15	
Aroclor-1248	B			250.0000	272.2081	pg	9	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1542,ar 1248
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 61

Date : 9/1/04 1:39:38 PM
Data Acquisition Time : 8/31/04 9:09:53 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a061p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	8.823	159571.50	48.5734	1.000	1	48.57	9.71
Aroclor-1248	13.654	77521.14	254.2037	1.000	1	254.20	50.84
Decachlorobiphenyl_	22.363	75907.06	41.4187	1.000	1	41.42	8.28
		312999.71	344.1958			344.20	68.84

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.199	15798.42	240.7468	1.000	1	240.75	48.15
PCB1248#2	13.219	11937.12	254.6077	1.000	1	254.61	50.92
PCB1248#3	13.654	25189.64	255.2003	1.000	1	255.20	51.04
PCB1248#4	14.533	14905.17	261.4207	1.000	1	261.42	52.28
PCB1248#5	16.022	9690.81	263.8500	1.000	1	263.85	52.77
		77521.14	1275.8255			1275.83	255.17

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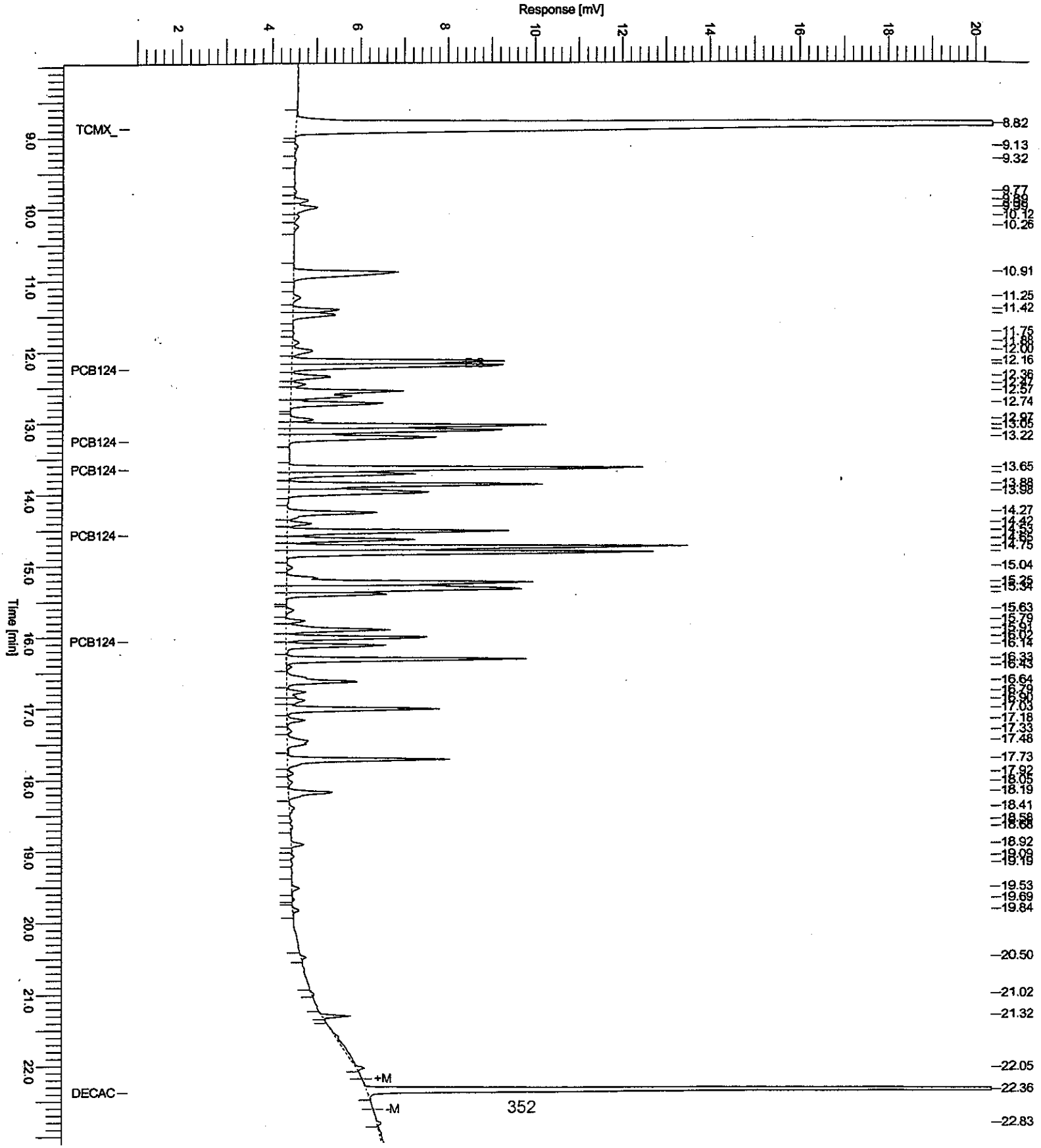
Report stored in ASCII file: G:\gc22\CHA\243a061p.TX0

PA 9/01/04

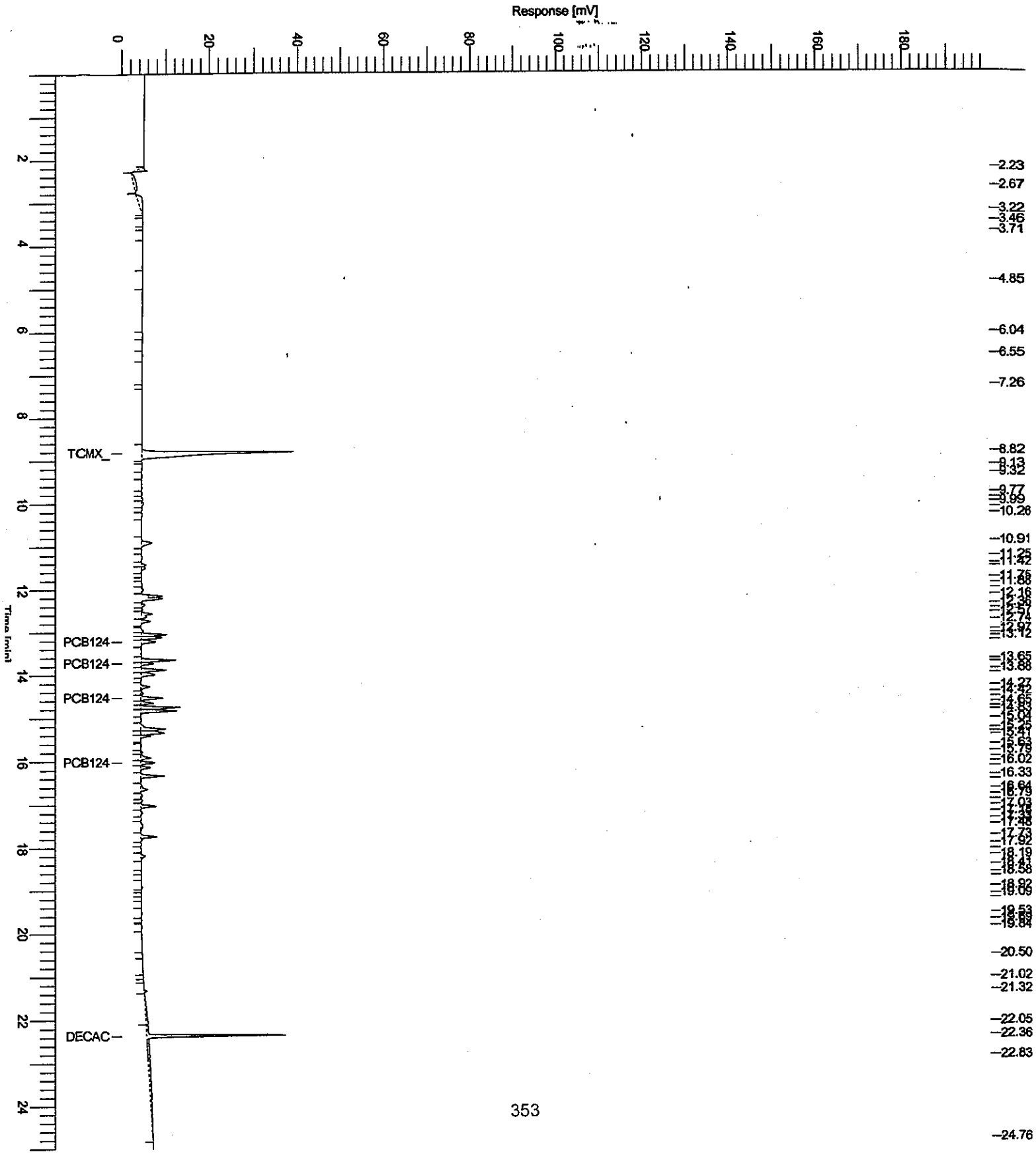
GC21 Rtx-CLPesticides

Sample Name : ccv,04ws1542,ar 1248 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\cha\243a061.raw
Date : 9/1/04 1:39:43 PM
Method :
Time of Injection: 8/31/04 9:09:53 PM
Start Time : 7.97 min End Time : 23.10 min Low Point : 0.81 mV High Point : 20.37 mV
Plot Offset: 0.81 mV Plot Scale: 19.6 mV



GC21 Rtx-CLPesticides

Sample Name : ccv,04ws1542,ar 1248 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\cha\243a061.raw
Date : 9/1/04 11:13:57 PM
Method : gc22ins Time of Injection: 8/31/04 9:09:53 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 200.00 mV
Plot Offset: 0.00 mV Plot Scale: 200.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1542,ar 1248
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 61

Date : 9/1/04 1:14:18 PM
Data Acquisition Time : 8/31/04 9:09:53 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b061.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	9.135	183711.00	50.4479	1.000	1	50.45	10.09
Aroclor-1248	15.288	124672.67	267.3651	1.000	1	267.37	53.47
Decachlorobiphenyl_	22.822	123656.50	50.4533	1.000	1	50.45	10.09
		432040.17	368.2663			368.27	73.65

Group Report For : Aroclor-1248

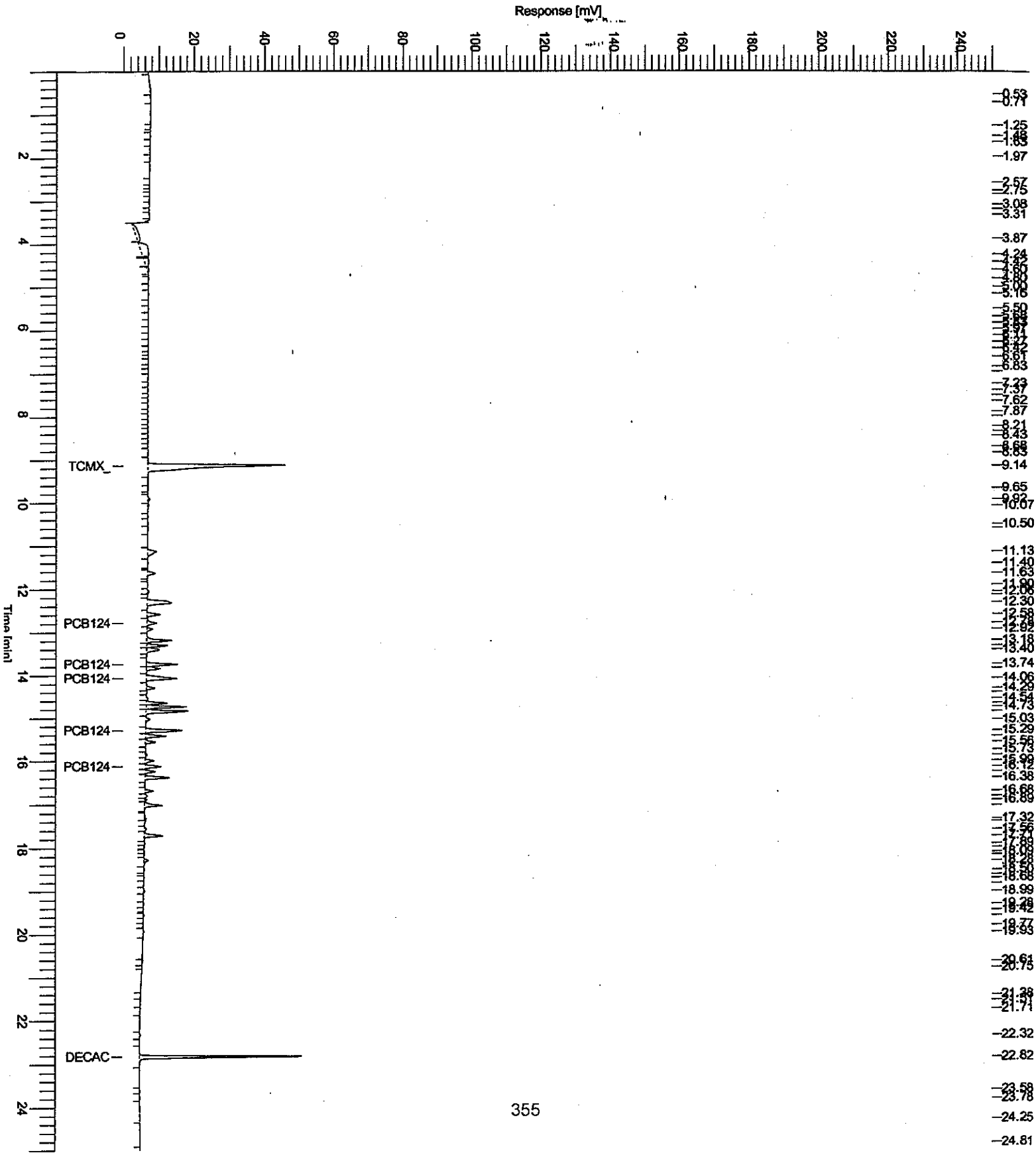
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.783	9464.62	306.4995	1.000	1	306.50	61.30
PCB1248#2	13.740	29019.41	261.5951	1.000	1	261.60	52.32
PCB1248#3	14.065	35408.00	262.4448	1.000	1	262.44	52.49
PCB1248#4	15.288	36802.88	271.3247	1.000	1	271.32	54.26
PCB1248#5	16.120	13977.76	259.1765	1.000	1	259.18	51.84
		124672.67	1361.0406			1361.04	272.21

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b061.TX0

GC21 Rtx-CLPesticides II

ample Name : ccv,04ws1542,ar 1248 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc22\chb\243b061
ate : 9/1/04 1:14:20 PM
lethod : gc22ins Time of Injection: 8/31/04 9:09:53 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 250.00 mV
lot Offset: 0.00 mV Plot Scale: 250.0 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254350716075
Calnum : 254347030001
Standards: 04WS1423

Run Name : pcb250_50
Filename : 243_075
Caldate : 27-AUG-2004

IDF : 1.0
Injected : 01-SEP-2004 03:46
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	254.9149	pg	2	15	
Aroclor-1260	A			250.0000	259.7250	pg	4	15	
TCMX	A	3285.2	3271.6	50.00000	49.79322	pg	0	15	
Decachlorobiphenyl	A	1832.7	1651.8	50.00000	45.06418	pg	-10	15	
Aroclor-1016	B			250.0000	274.0473	pg	10	15	
Aroclor-1260	B			250.0000	274.3328	pg	10	15	
TCMX	B	3641.6	3696.0	50.00000	50.74694	pg	1	15	
Decachlorobiphenyl	B	2450.9	2668.9	50.00000	54.44699	pg	9	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1423,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 75

Date : 9/1/04 2:18:11 PM
Data Acquisition Time : 9/1/04 3:46:26 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a075p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.825	163578.91	49.7932	1.000	1	49.79	9.96
Aroclor-1016	12.211	115842.18	254.2899	1.000	1	254.29	50.86
Aroclor-1260	19.847	205946.96	257.2538	1.000	1	257.25	51.45
Decachlorobiphenyl	22.363	82588.07	45.0642	1.000	1	45.06	9.01
		567956.12	606.4011			606.40	121.28

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.898	15137.05	258.7581	1.000	1	258.76	51.75
PCB1016#3	12.570	23572.61	244.2396	1.000	1	244.24	48.85
PCB1016#4	12.741	17859.85	258.3860	1.000	1	258.39	51.68
PCB1016#2	12.211	39235.39	255.1754	1.000	1	255.18	51.04
PCB1016#5	13.661	20037.29	258.0156	1.000	1	258.02	51.60
		115842.18	1274.5748			1274.57	254.91

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.788	34972.00	263.0897	1.000	1	263.09	52.62
PCB1260#2	17.482	52989.39	252.1292	1.000	1	252.13	50.43
PCB1260#3	18.465	26881.12	269.3487	1.000	1	269.35	53.87
PCB1260#4	19.087	30149.83	263.4385	1.000	1	263.44	52.69
PCB1260#5	19.847	60954.62	250.6193	1.000	1	250.62	50.12
		205946.96	1298.6255			1298.63	259.73

AA 9/01/04

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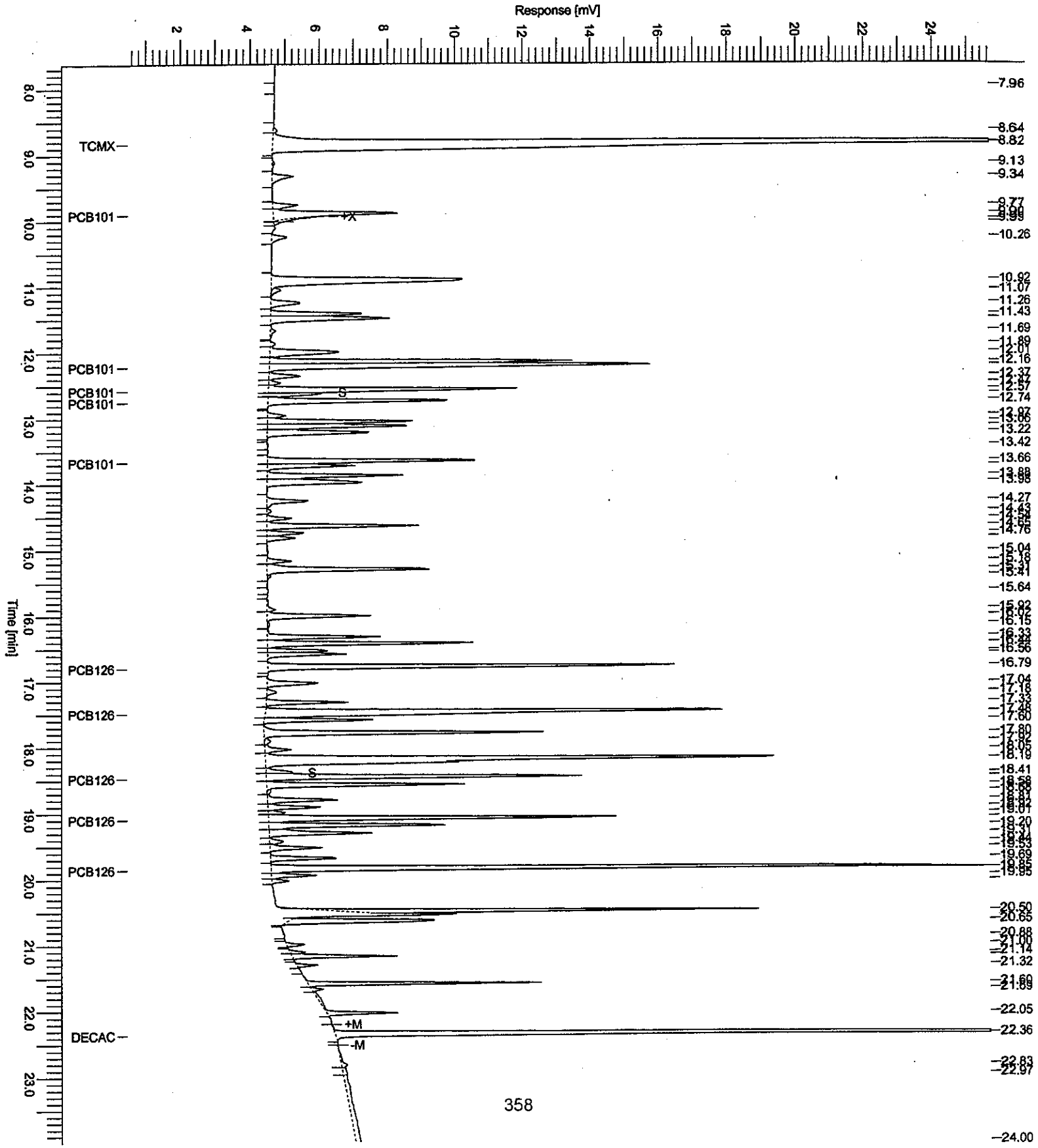
Report stored in ASCII file: G:\gc22\CHA\243a075p.TX0

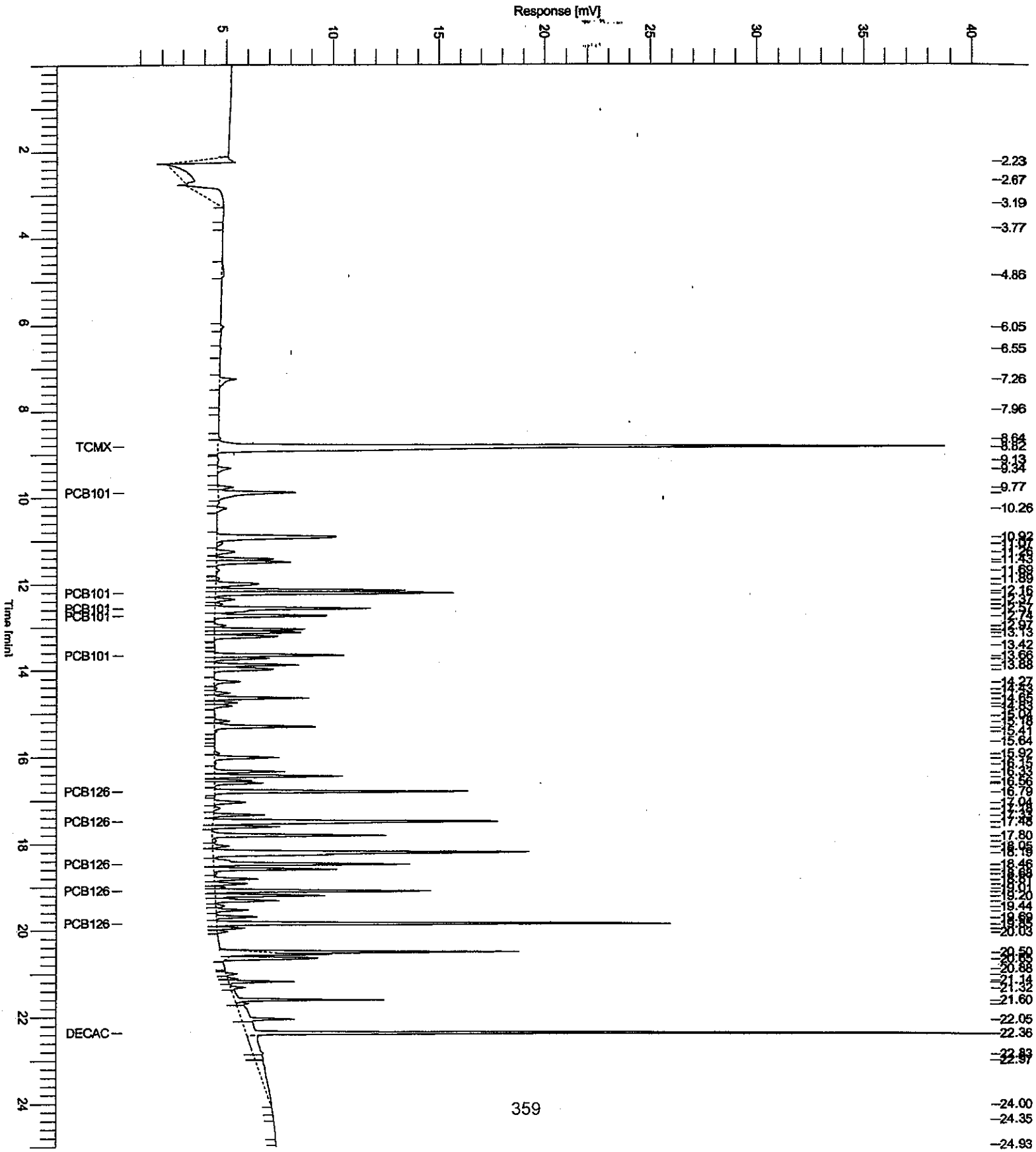
GC22 Rtx-CLPesticides

Sample Name : ccv,04ws1423,pcb250_50 Sample #: 250 ug/l
FileName : G:\gc22\cha\243a075.raw
Date : 9/1/04 2:18:16 PM
Method : Time of Injection: 9/1/04 3:46:26 AM
Start Time : 7.63 min End Time : 24.00 min Low Point : 0.47 mV High Point : 25.65 mV
Plot Offset: 0.47 mV Plot Scale: 25.2 mV



GC22 Rtx-CLPesticides

ample Name : ccv,04ws1423,pcb250_50 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc22\cha\243a075.raw
ate : 9/1/04 1:55:34 PM
lethod : gc22ins Time of Injection: 9/1/04 3:46:26 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.24 mV High Point : 40.95 mV
cale Factor: 1.0 Plot Offset: 0.24 mV Plot Scale: 40.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1423,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 75

Date : 9/1/04 2:02:57 PM
Data Acquisition Time : 9/1/04 3:46:26 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b075p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.135	184800.00	50.7469	1.000	1	50.75	10.15
Aroclor-1016	12.310	139086.78	270.2223	1.000	1	270.22	54.04
Aroclor-1260	19.935	250538.15	273.4574	1.000	1	273.46	54.69
Decachlorobiphenyl	22.822	133444.70	54.4470	1.000	1	54.45	10.89
		707869.63	648.8736			648.87	129.77

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.066	17468.52	294.4472	1.000	1	294.45	58.89
PCB1016#2	11.635	23884.65	272.3611	1.000	1	272.36	54.47
PCB1016#3	12.310	46503.61	259.4496	1.000	1	259.45	51.89
PCB1016#4	12.582	29813.00	271.1366	1.000	1	271.14	54.23
PCB1016#5	13.741	21417.00	272.8420	1.000	1	272.84	54.57
		139086.78	1370.2365			1370.24	274.05

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.973	43056.00	248.0148	1.000	1	248.01	49.60
PCB1260#2	17.563	51823.45	279.0891	1.000	1	279.09	55.82
PCB1260#3	18.683	33149.42	282.3616	1.000	1	282.36	56.47
PCB1260#4	19.282	37013.50	286.7934	1.000	1	286.79	57.36
PCB1260#5	19.935	85495.79	275.4051	1.000	1	275.41	55.08
		250538.15	1371.6640			1371.66	274.33

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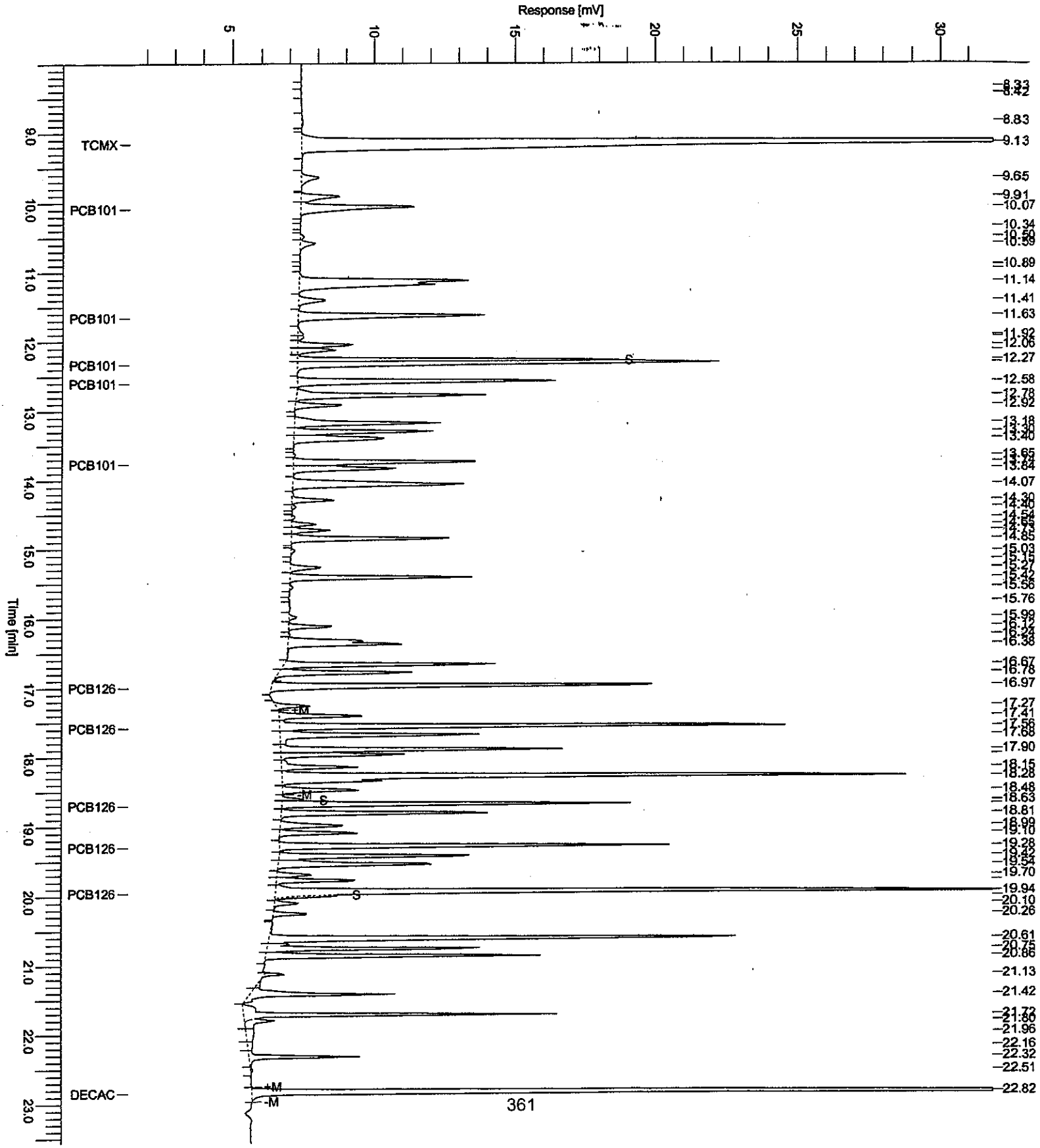
Report stored in ASCII file: G:\gc22\CHB\243b075p.TX0

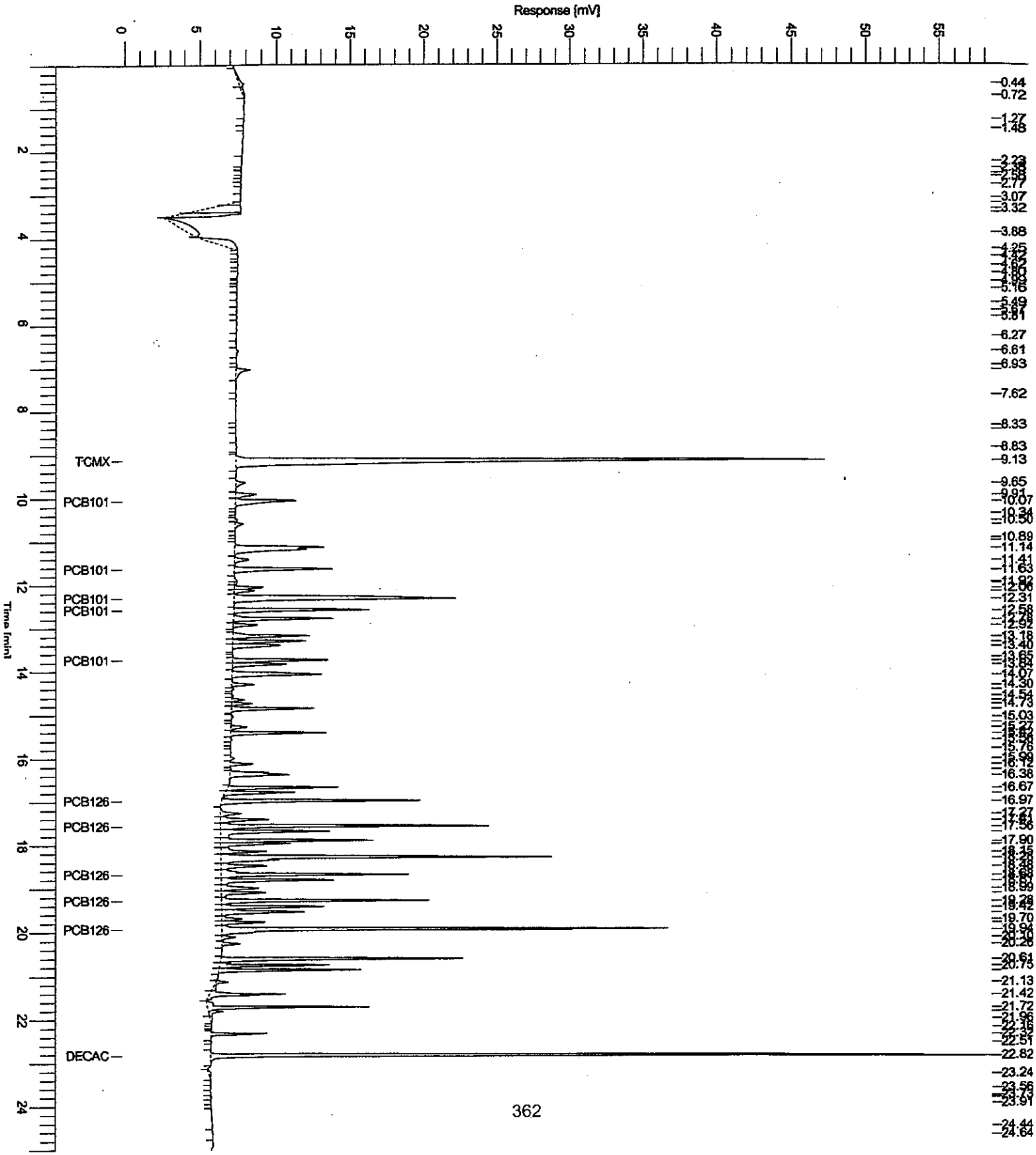
GC22 Rtx-CLPesticides II

Sample Name : ccv,04ws1423,pcb250_50 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\chb\243b075.raw
Date : 9/1/04 2:03:02 PM
Method :
Time of Injection: 9/1/04 3:46:26 AM
Start Time : 8.00 min End Time : 23.57 min Low Point : 1.39 mV High Point : 31.87 mV
Plot Offset: 1.39 mV Plot Scale: 30.5 mV



GC22 Rtx-CLPesticides II

Sample Name : ccv,04ws1423,pcb250_50 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\chb\243b075
Date : 9/1/04 1:55:06 PM
Method : gc22ins Time of Injection: 9/1/04 3:46:26 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.24 mV High Point : 58.47 mV
Scale Factor: 1.0 Plot Offset: -0.24 mV Plot Scale: 58.7 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254350716079
Calnum : 254350716002
Standards: 04WS1542

Run Name : ar 1248
Filename : 243_079
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 01-SEP-2004 05:39
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1248	A			250.0000	266.2583	pg	7	15	
Aroclor-1248	B			250.0000	278.9507	pg	12	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1542,ar 1248
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 79

Date : 9/1/04 2:23:20 PM
Data Acquisition Time : 9/1/04 5:39:42 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a079p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	8.823	166185.00	50.5865	1.000	1	50.59	10.12
Aroclor-1248	13.653	80921.72	265.3548	1.000	1	265.35	53.07
Decachlorobiphenyl_	22.363	74529.59	40.6671	1.000	1	40.67	8.13
		321636.31	356.6083			356.61	71.32

Group Report For : Aroclor-1248

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.199	16498.73	251.4186	1.000	1	251.42	50.28
PCB1248#2	13.218	12459.78	265.7556	1.000	1	265.76	53.15
PCB1248#3	13.653	26251.71	265.9604	1.000	1	265.96	53.19
PCB1248#4	14.532	15677.85	274.9728	1.000	1	274.97	54.99
PCB1248#5	16.021	10033.64	273.1843	1.000	1	273.18	54.64
		80921.72	1331.2917			1331.29	266.26

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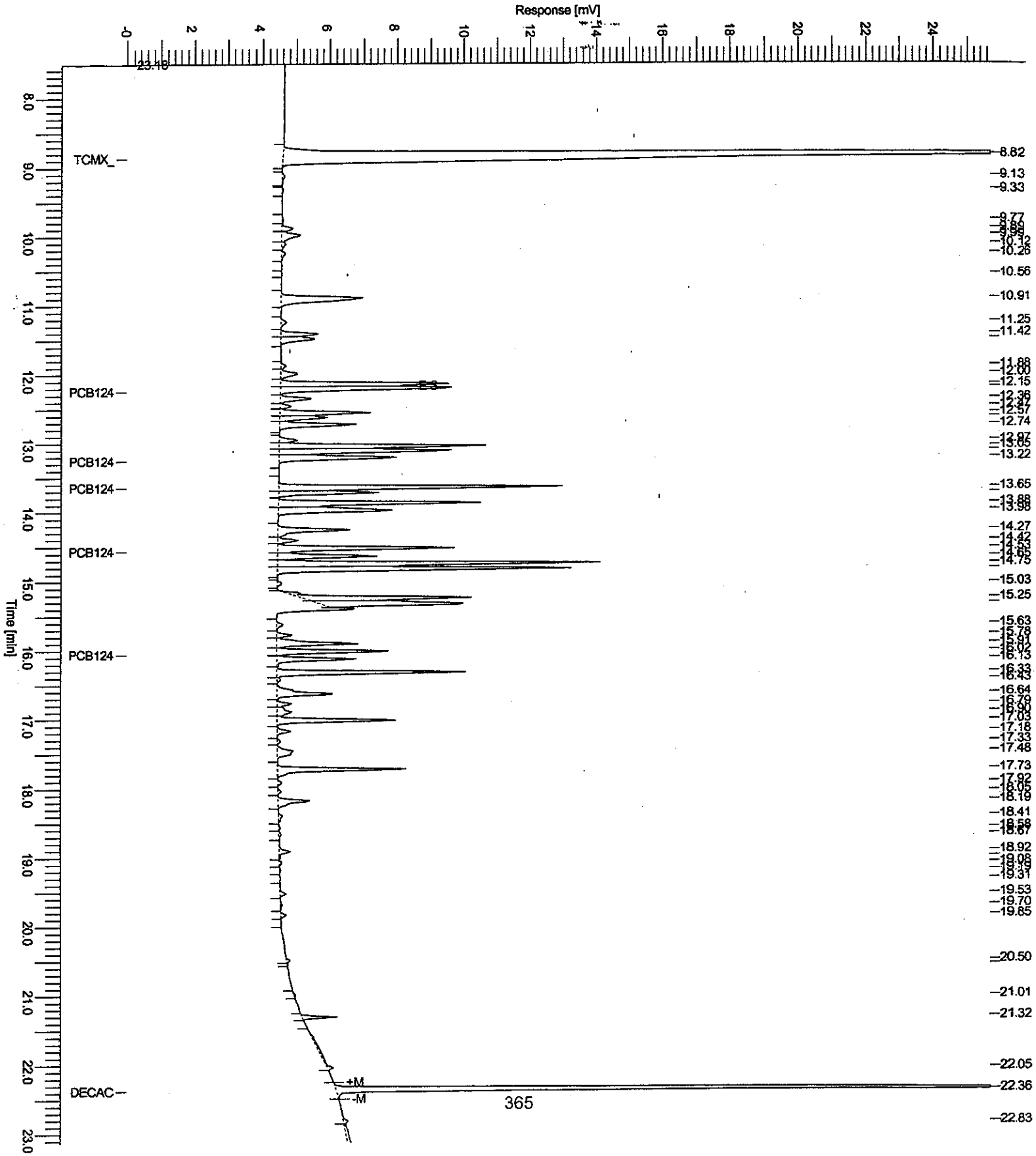
Report stored in ASCII file: G:\gc22\CHA\243a079p.TX0

FA 9/01/04

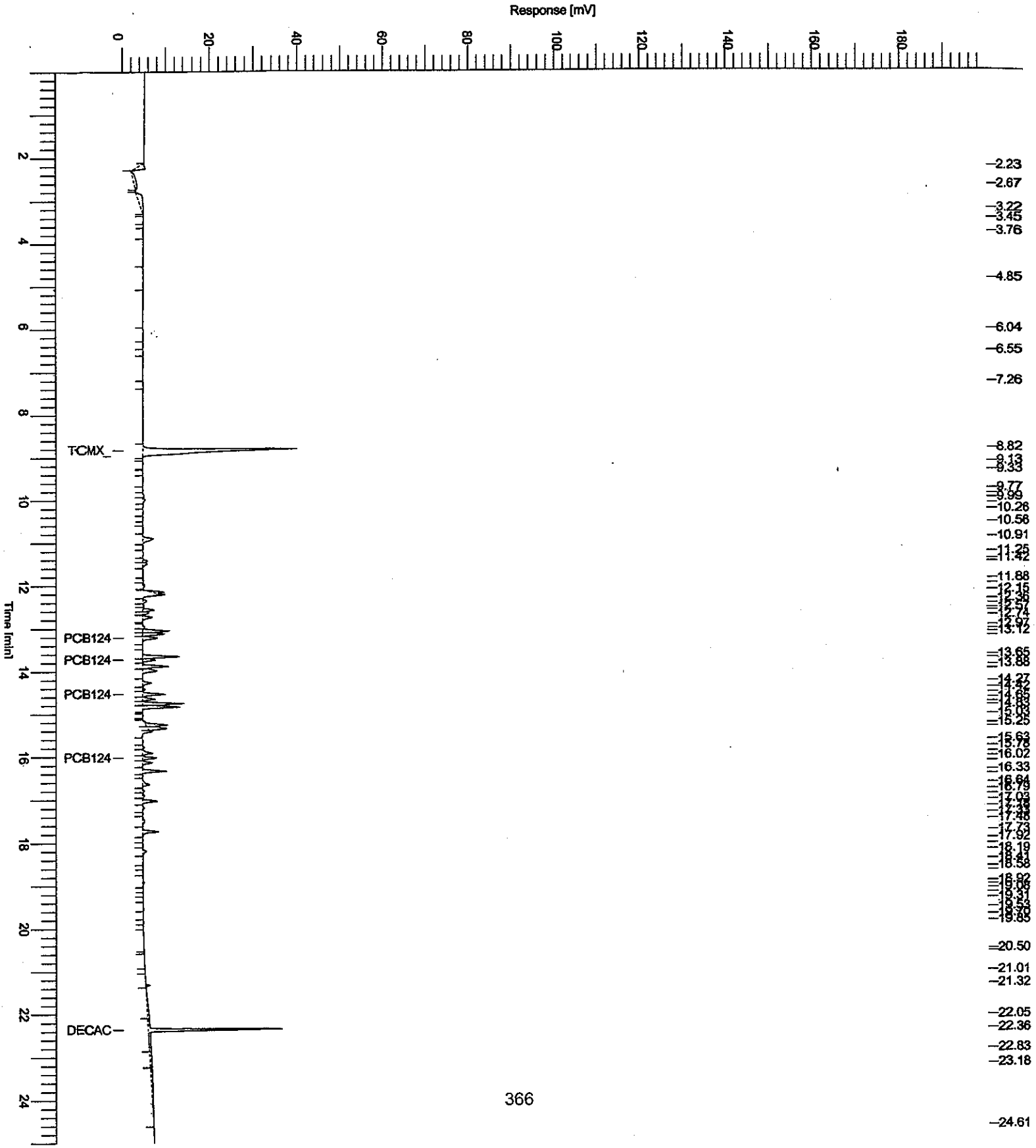
GC21 Rtx-CLPesticides

Sample Name : ccv,04ws1542,ar 1248 Sample #: 250 ug/l Page 1 of 1
FileName : G:\gc22\cha\243a079.raw
Date : 9/1/04 2:23:24 PM
Method : Time of Injection: 9/1/04 5:39:42 AM
Start Time : 7.52 min End Time : 23.13 min Low Point : -0.03 mV High Point : 25.69 mV
Plot Offset: -0.03 mV Plot Scale: 25.7 mV



GC21 Rtx-CLPesticides

ample Name : ccv,04ws1542,ar 1248 Sample #: 250 ug/l Page 1 of 1
ileName : G:\gc22\cha\243a079.raw
ate : 9/1/04 1 :55:54 PM
lethod : gc22ins Time of Injection: 9/1/04 5:39:42 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 200.00 mV
lot Offset: 0.00mV Plot Scale: 200.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1542,ar 1248
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 79

Date : 9/1/04 1:55:22 PM
Data Acquisition Time : 9/1/04 5:39:42 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b079.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX_	9.132	189121.88	51.9337	1.000	1	51.93	10.39
Aroclor-1248	15.285	127980.50	274.4589	1.000	1	274.46	54.89
Decachlorobiphenyl_	22.821	124436.59	50.7716	1.000	1	50.77	10.15
		441538.97	377.1642			377.16	75.43

Group Report For : Aroclor-1248

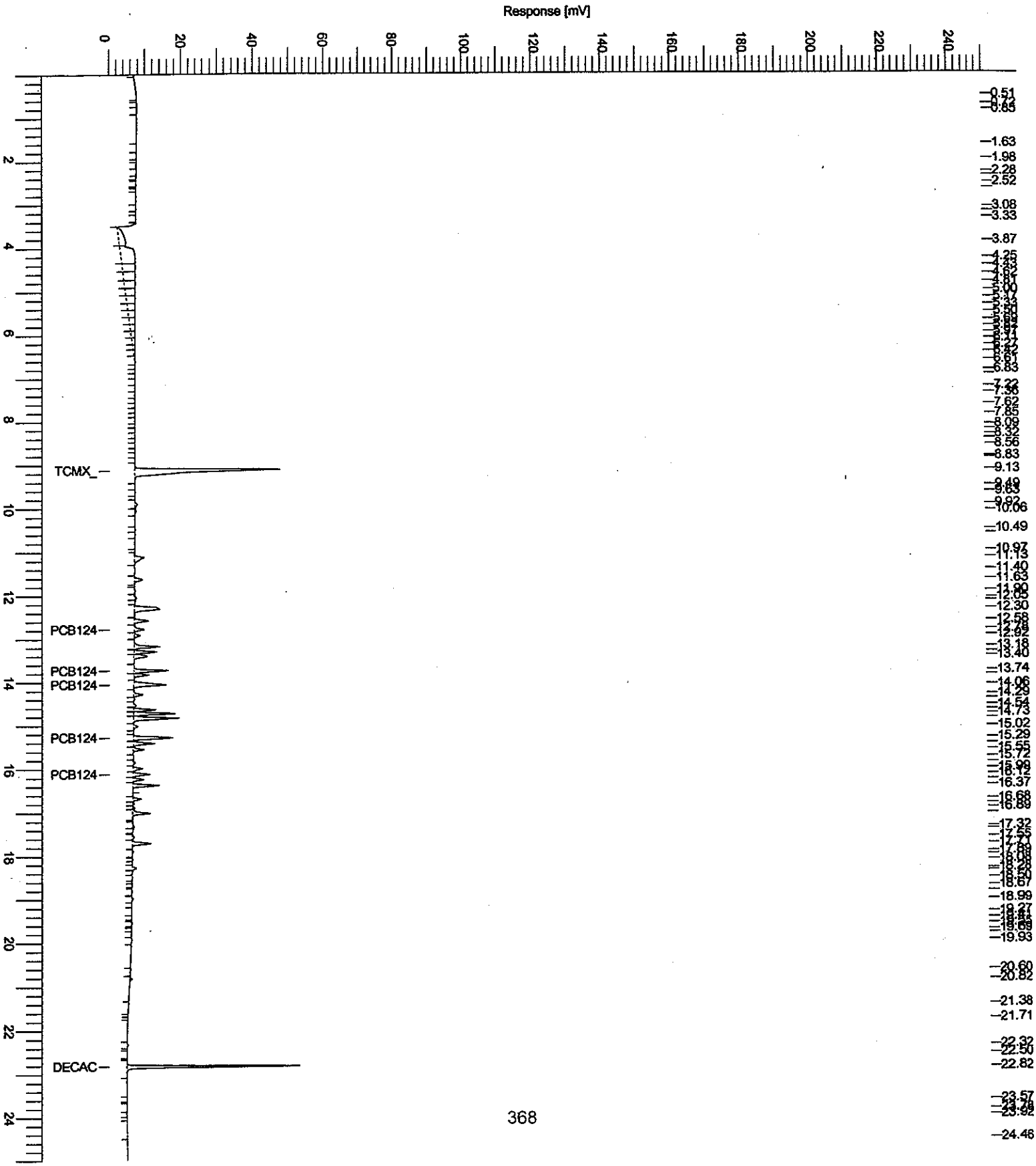
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1248#1	12.781	9546.16	309.1401	1.000	1	309.14	61.83
PCB1248#2	13.737	29866.43	269.2307	1.000	1	269.23	53.85
PCB1248#3	14.063	36504.00	270.5684	1.000	1	270.57	54.11
PCB1248#4	15.285	37562.19	276.9227	1.000	1	276.92	55.38
PCB1248#5	16.118	14501.71	268.8916	1.000	1	268.89	53.78
		127980.50	1394.7534			1394.75	278.95

CURTIS & TOMPKINS LTD

Report stored in ASCII file: G:\gc22\CHB\243b079.TX0

GC21 Rtx-CLPesticides II

nple Name : ccv,04ws1542,ar 1248 Sample #: 250 ug/l Page 1 of 1
lName : G:\gc22\chb\243b079
le : 9/1/04 1:55:24 PM
thod : gc22ins Time of Injection: 9/1/04 5:39:42 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : 0.00 mV High Point : 250.00 mV
t Offset: 0.00 mV Plot Scale: 250.0 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254350716093
Calnum : 254347030001
Standards: 04WS0963

Run Name : pcb500_100
Filename : 243_093
Caldate : 27-AUG-2004

IDF : 1.0
Injected : 01-SEP-2004 15:41
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	502.1974	pg	0	15	
Aroclor-1260	A			500.0000	486.0876	pg	-3	15	
TCMX	A	3285.2	3283.5	100.0000	99.95042	pg	0	15	
Decachlorobiphenyl	A	1832.7	1699.4	100.0000	92.73021	pg	-7	15	
Aroclor-1016	B			500.0000	517.0598	pg	3	15	
Aroclor-1260	B			500.0000	502.2250	pg	0	15	
TCMX	B	3641.6	3493.7	100.0000	95.93978	pg	-4	15	
Decachlorobiphenyl	B	2450.9	2609.2	100.0000	106.4599	pg	6	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0963,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 93

Date : 9/2/04 8:42:50 AM
Data Acquisition Time : 9/1/04 3:41:21 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\243a093p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.824	328353.56	99.9504	1.000	1	99.95	19.99
Aroclor-1016	12.209	227470.72	499.3303	1.000	1	499.33	99.87
Aroclor-1260	19.845	386524.88	482.8185	1.000	1	482.82	96.56
Decachlorobiphenyl	22.355	169944.48	92.7302	1.000	1	92.73	18.55
		1112293.64	1174.8294			1174.83	234.97

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	9.897	30808.82	526.6568	1.000	1	526.66	105.33
PCB1016#3	12.569	45870.11	475.2677	1.000	1	475.27	95.05
PCB1016#4	12.739	35046.70	507.0354	1.000	1	507.04	101.41
PCB1016#2	12.209	76634.26	498.4066	1.000	1	498.41	99.68
PCB1016#5	13.655	39110.84	503.6214	1.000	1	503.62	100.72
		227470.72	2510.9879			2510.99	502.20

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.786	65937.00	496.0353	1.000	1	496.04	99.21
PCB1260#2	17.474	100949.99	480.3308	1.000	1	480.33	96.07
PCB1260#3	18.462	49140.16	492.3842	1.000	1	492.38	98.48
PCB1260#4	19.085	56348.91	492.3568	1.000	1	492.36	98.47
PCB1260#5	19.845	114148.82	469.3311	1.000	1	469.33	93.87
		386524.88	2430.4384			2430.44	486.09

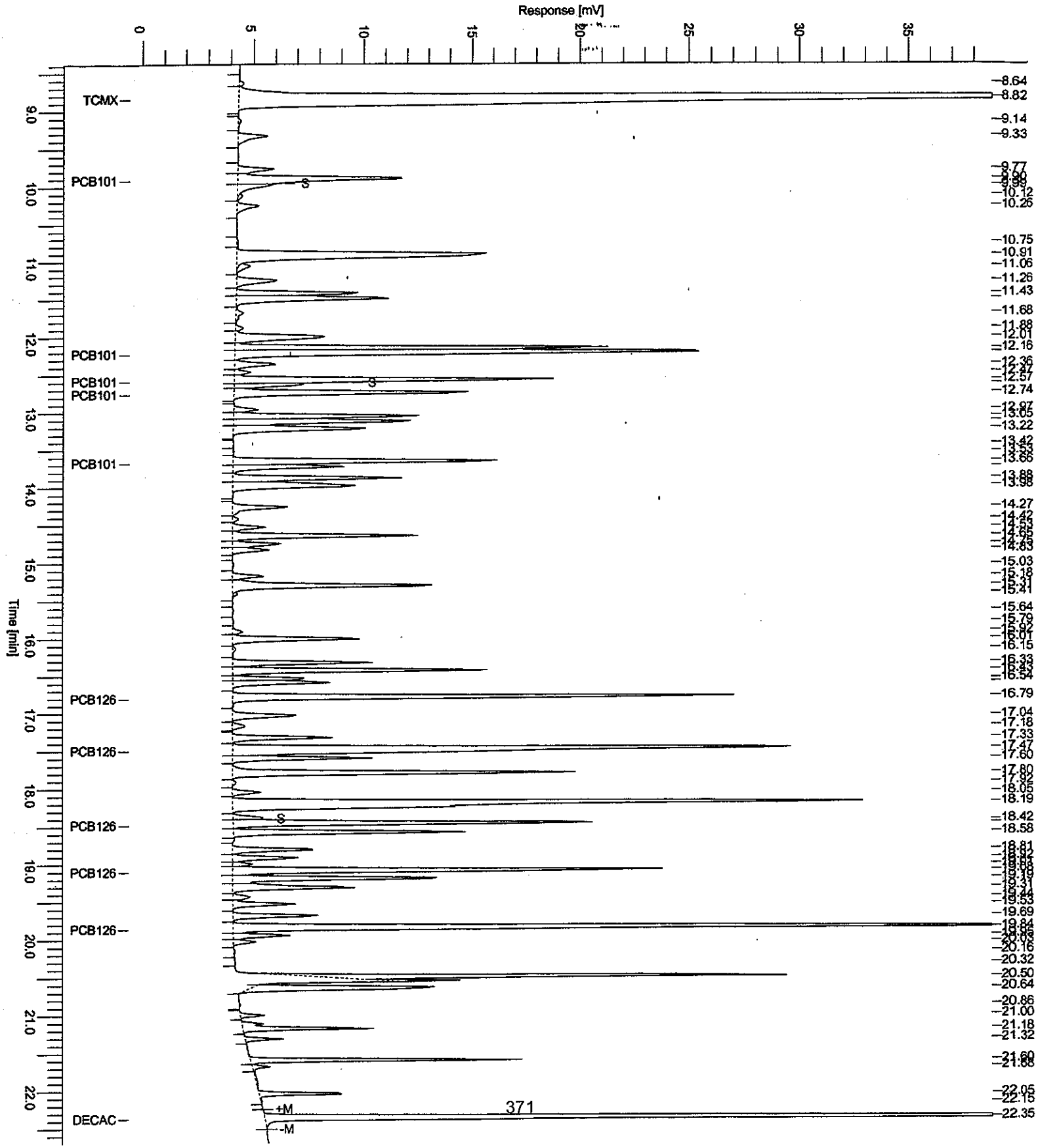
FA 9/2/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\243a093p.TX0

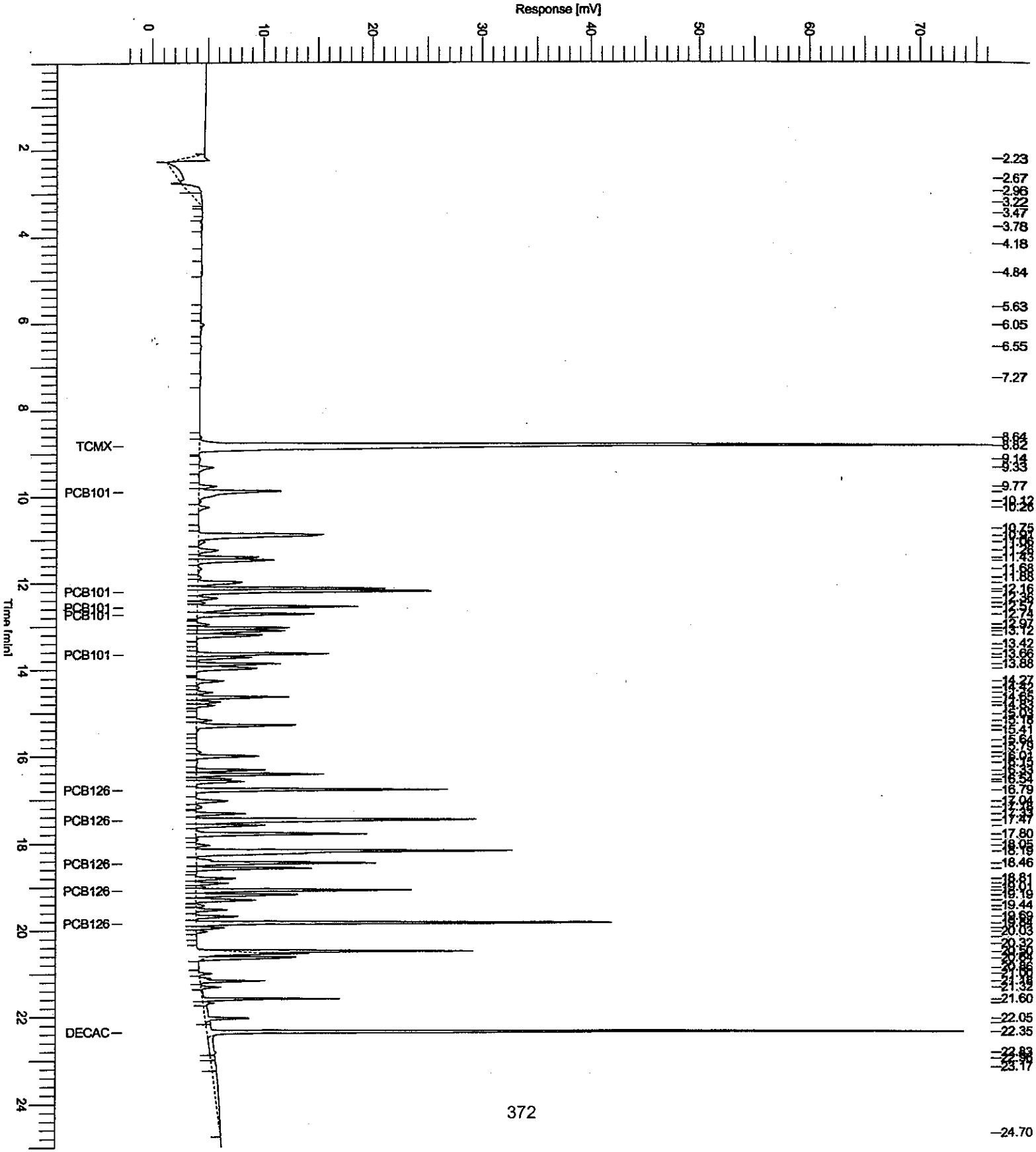
GC22 Rtx-CLPesticides

Sample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
FileName : G:\gc22\cha\243a093.raw
Date : 9/2/04 8:42:55 AM
Method :
Time of Injection: 9/1/04 3:41:21 PM
Start Time : 8.38 min End Time : 22.70 min Low Point : -0.59 mV High Point : 38.83 mV
Plot Offset: -0.59 mV Plot Scale: 39.4 mV



GC22 Rtx-CLPesticides

ample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
ileName : G:\gc22\cha\243a093.raw
ate : 9/2/04 8:40:54 AM
ethod : gc22ins Time of Injection: 9/1/04 3:41:21 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.52 mV High Point : 76.46 mV
cale Factor: 1.0 Plot Offset: -2.52 mV Plot Scale: 79.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws0963,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 93

Date : 9/2/04 8:45:03 AM
Data Acquisition Time : 9/1/04 3:41:21 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\243b093p.rst
Sequence File : G:\gc22\files\243.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	9.136	349374.19	95.9398	1.000	1	95.94	19.19
Aroclor-1016	12.311	259419.91	504.0094	1.000	1	504.01	100.80
Aroclor-1260	19.933	458930.29	500.9132	1.000	1	500.91	100.18
Decachlorobiphenyl	22.822	260923.72	106.4599	1.000	1	106.46	21.29
		1328648.11	1207.3223			1207.32	241.46

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.067	34392.03	579.7077	1.000	1	579.71	115.94
PCB1016#2	11.635	45080.00	514.0556	1.000	1	514.06	102.81
PCB1016#3	12.311	83175.10	464.0445	1.000	1	464.04	92.81
PCB1016#4	12.582	56337.50	512.3657	1.000	1	512.37	102.47
PCB1016#5	13.740	40435.28	515.1255	1.000	1	515.13	103.03
		259419.91	2585.2990			2585.30	517.06

Group Report For : Aroclor-1260

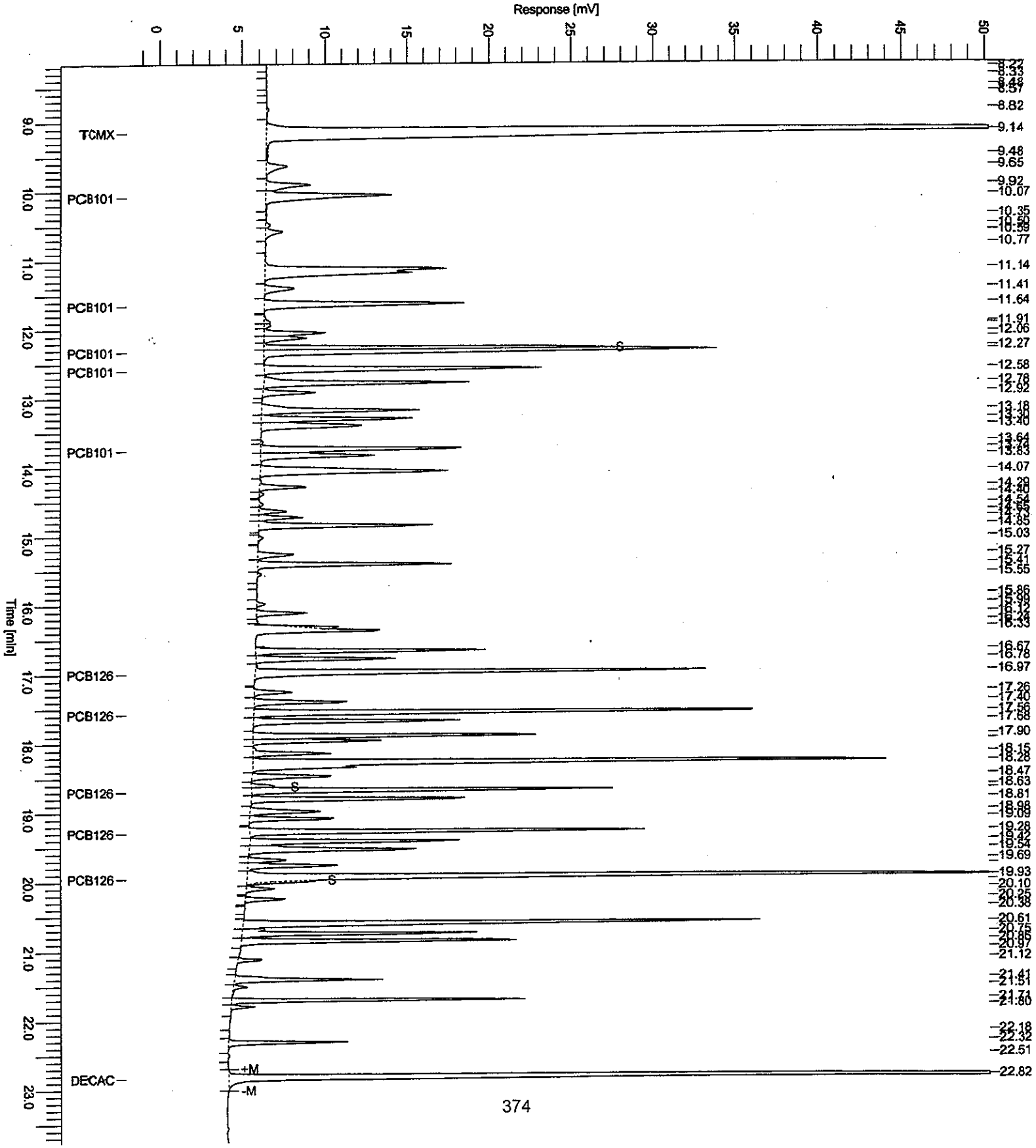
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.971	84292.00	485.5459	1.000	1	485.55	97.11
PCB1260#2	17.556	91495.96	492.7408	1.000	1	492.74	98.55
PCB1260#3	18.681	59903.91	510.2523	1.000	1	510.25	102.05
PCB1260#4	19.280	67035.50	519.4143	1.000	1	519.41	103.88
PCB1260#5	19.933	156202.92	503.1719	1.000	1	503.17	100.63
		458930.29	2511.1251			2511.13	502.23

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\243b093p.TX0

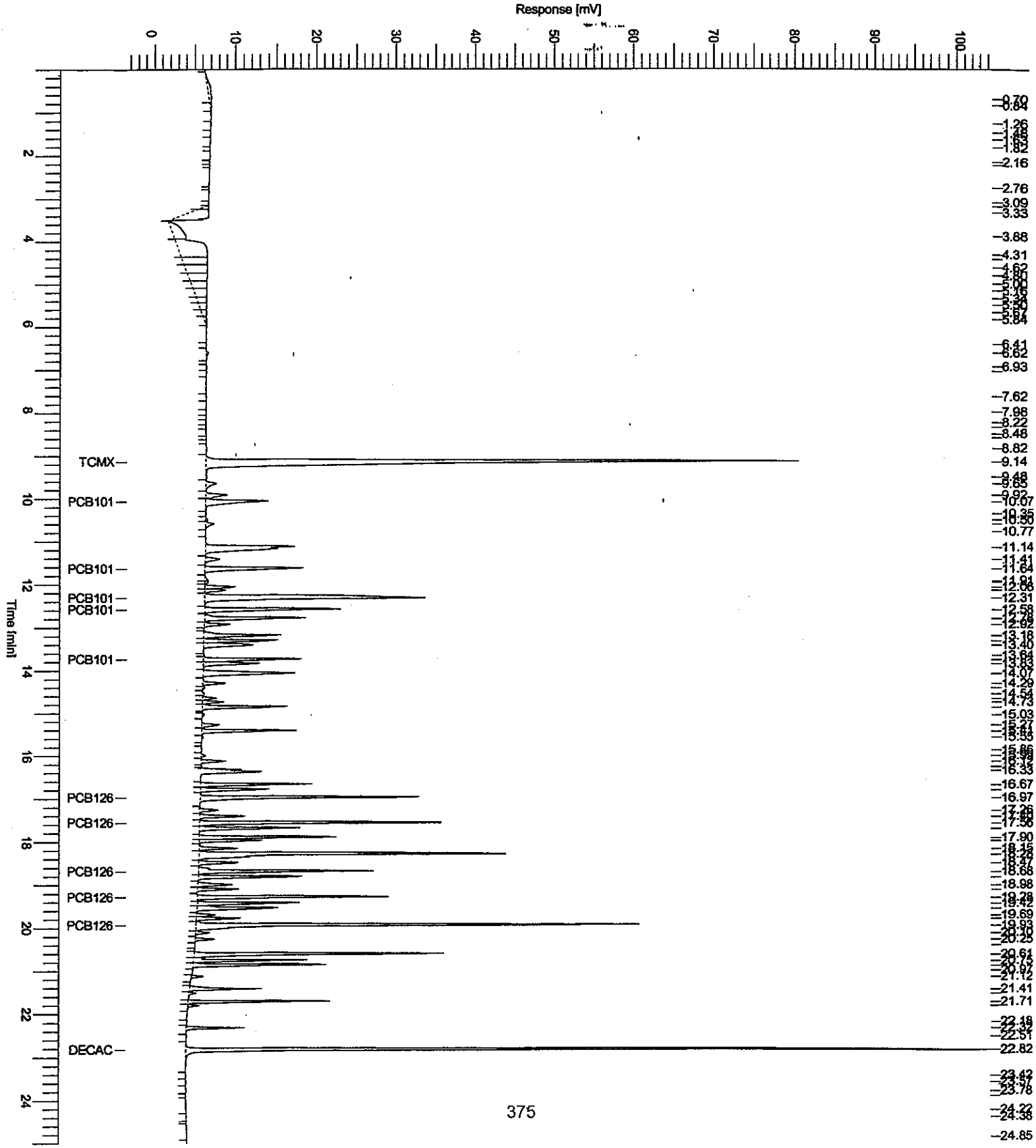
GC22 Rtx-CLPesticides II

Sample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l
FileName : G:\gc22\chb\243b093.raw
Date : 9/2/04 8:45:07 AM
Method :
Time of Injection: 9/1/04 3:41:21 PM
Start Time : 8.17 min End Time : 23.77 min Low Point : -1.97 mV High Point : 50.23 mV
Plot Offset: -1.97 mV Plot Scale: 52.2 mV



GC22 Rtx-CLPesticides II

ample Name : x,ccv,04ws0963,pcb500_100 Sample #: 500 ug/l Page 1 of 1
ileName : G:\gc22\chb\243b093
ate : 9/2/04 8:41:03 AM
ethod : gc22ins Time of Injection: 9/1/04 3:41:21 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.48 mV High Point : 104.52 mV
cale Factor: 1.0 Plot Offset: -3.48 mV Plot Scale: 108.0 mV



Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 94233
Date: 09/01/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174320-001	15.7365	22.1835	22.1152	99	1
174320-002	11.0019	18.4589	16.9899	80	20
174320-003	10.9923	18.8447	18.2579	93	7
174320-004	11.1530	18.4654	18.2985	98	2
174320-005	15.5536	22.5951	22.3934	97	3
174320-006	11.0824	18.9913	18.9340	99	1
174354-001	15.5452	22.7000	21.7064	86	14
QC263193	11.1624	18.5824	18.4993	99	1
of 174320-001			RPD:	0.1%	5.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 94233
Date Started: 31-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
174320-001		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-002		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-003		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-004		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-005		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-006		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174354-001		Tan Phung Associat	Soil	MOISTURE	01-SEP-2004
QC263193	SDUP of 174320-001		Soil	MOISTURE	

8/31/04

#94233

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	B119	11.0467	—	11.0478	
174320-1	A	10	15.7065	22.1835	22.1152	
DUP 1		3	11.1624	18.5824	18.4993	
2		B113	11.0014	18.4584	16.9899	
3		2	10.9923	18.8447	18.2576	
4		B106	11.1530	18.4654	18.2985	
5		18X	15.5536	22.5951	~~22.3532~~ 22.3934	
6		61	11.0820	18.9913	18.9348	
174354-1	A	32	15.5452	22.7000	21.7064	

OVEN TEMP. 105°C
TIME IN: 5:30 P.M.
TIME OUT: 10:20 A.M. ON: 9/1/04

Continued on Page

Read and Understood By

R. Manning 8/31/04 379 9/2/04

Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

RECEIVED
SEP 15 2004
TREADWELL & ROLLO

Laboratory Number 174320
Organochlorine Pesticides

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX118[0.5]	174320-002
BB3EX120[0.5]	174320-004
DUP083004A	174320-005
BB3EX121[0.5]	174320-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/10/04
Operations Manager

Signature: _____ Date: 9/9/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PESTICIDES (EPA 8081A)

Laboratory number:	174320
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	08/30/04
Samples Received:	08/30/04

This hardcopy data package contains sample and QC results for four soil samples, requested for the above referenced project on 08/30/04. The samples were received cold and intact.

Pesticides (EPA 8081A):

High ICAL percent RSD (relative standard deviation) was observed for endosulfan sulfate in the calibration analyzed 08/19/04 22:41; average ICAL %RSD met method requirements, and this analyte was not detected in the associated samples.

High response was observed for methoxychlor in the ICV analyzed 08/20/04 03:05; this analyte was not detected in the associated samples.

Low response was observed for 4,4'-DDT in the CCV analyzed 08/31/04 21:16; average CCV drift met method requirements.

High response was observed for 4,4'-DDE in the CCV analyzed 08/31/04 11:42; average CCV drift met method requirements, and this analyte was not detected in the associated sample.

No other analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

174320

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Rennie
Samplers: Mike Chamberlain
Recorder (Signature Required): [signature]

Turnaround Time: 48hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	Metals	SVOCs	Silica gel clean-up	Hold	Remarks	
-1 BB3EX117[0.5]	8/30/04	1148		X						X				X					sand
-2 BB3EX118[0.5]		1154		X						X		X	X	X				MS\MSD	colma
-3 BB3EX119[0.5]		1200		X						X					X				sand
-4 BB3EX120[0.5]		1205		X						X		X	X	X					sand
-5 DUP083004A		1205		X						X		X	X	X					sand
-6 BB3EX121[0.5]	8/30/04	1210		X						X		X	X	X				MS\MSD	sand

Sample Group Sent to Lab "B" on Ice
LEVEL 4 QA/QC

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/30/04	1507	Tony Rojas	8/30/04	1507
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002239

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174320 Date Received: 8/30/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES. enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: Cold

B. Login Phase
Date Logged In: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX118[0.5]	Batch#:	94186
Lab ID:	174320-002	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 20%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	2.1	0.65
beta-BHC	ND	2.1	0.90
gamma-BHC	ND	2.1	0.66
delta-BHC	ND	2.1	0.76
Heptachlor	ND	2.1	0.85
Aldrin	ND	2.1	0.70
Heptachlor epoxide	ND	2.1	0.70
Endosulfan I	ND	2.1	0.99
Dieldrin	ND	4.2	1.6
4,4'-DDE	ND	4.2	2.0
Endrin	ND	4.2	2.1
Endosulfan II	ND	4.2	1.6
Endosulfan sulfate	ND	4.2	1.6
4,4'-DDD	ND	4.2	1.9
Endrin ketone	ND	4.2	1.6
4,4'-DDT	ND	4.2	2.0
Chlordane (Technical)	ND	38	3.9
alpha-Chlordane	ND	2.1	0.80
gamma-Chlordane	ND	2.1	0.71
Methoxychlor	ND	21	9.9
Toxaphene	ND	76	14

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	72	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX120[0.5]	Batch#:	94186
Lab ID:	174320-004	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.53
beta-BHC	ND	1.7	0.72
gamma-BHC	ND	1.7	0.54
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.68
Aldrin	ND	1.7	0.56
Heptachlor epoxide	ND	1.7	0.56
Endosulfan I	ND	1.7	0.80
Dieldrin	ND	3.4	1.3
4,4'-DDE	ND	3.4	1.6
Endrin	ND	3.4	1.7
Endosulfan II	ND	3.4	1.3
Endosulfan sulfate	ND	3.4	1.3
4,4'-DDD	5.7	3.4	1.5
Endrin ketone	ND	3.4	1.3
4,4'-DDT	11 #	3.4	1.7
Chlordane (Technical)	ND	31	3.2
alpha-Chlordane	ND	1.7	0.65
gamma-Chlordane	1.1 J	1.7	0.73
Methoxychlor	ND	17	8.1
Toxaphene	ND	61	11

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	87	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP083004A	Batch#:	94186
Lab ID:	174320-005	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.54
beta-BHC	ND	1.8	0.73
gamma-BHC	ND	1.8	0.55
delta-BHC	ND	1.8	0.63
Heptachlor	ND	1.8	0.69
Aldrin	ND	1.8	0.58
Heptachlor epoxide	ND	1.8	0.57
Endosulfan I	ND	1.8	0.80
Dieldrin	ND	3.4	1.3
4,4'-DDE	ND	3.4	1.6
Endrin	ND	3.4	1.8
Endosulfan II	ND	3.4	1.3
Endosulfan sulfate	ND	3.4	1.3
4,4'-DDD	ND	3.4	1.5
Endrin ketone	ND	3.4	1.3
4,4'-DDT	4.8 #	3.4	1.8
Chlordane (Technical)	ND	31	3.2
alpha-Chlordane	ND	1.8	0.66
gamma-Chlordane	ND	1.8	0.59
Methoxychlor	ND	18	8.1
Toxaphene	ND	62	11

Surrogate	%REC	Limits
TCMX	97	65-135
Decachlorobiphenyl	88	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX121[0.5]	Batch#:	94186
Lab ID:	174320-006	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.52
beta-BHC	ND	1.7	0.71
gamma-BHC	ND	1.7	0.53
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.67
Aldrin	ND	1.7	0.56
Heptachlor epoxide	ND	1.7	0.55
Endosulfan I	ND	1.7	0.78
Dieldrin	ND	3.3	1.3
4,4'-DDE	ND	3.3	1.5
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.3
Endosulfan sulfate	ND	3.3	1.3
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.2
4,4'-DDT	ND	3.3	1.6
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.64
gamma-Chlordane	ND	1.7	0.57
Methoxychlor	ND	17	7.9
Toxaphene	ND	60	10

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	106	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC263010	Batch#:	94186
Matrix:	Soil	Prepared:	08/30/04
Units:	ug/Kg	Analyzed:	08/31/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.52
beta-BHC	ND	1.7	0.71
gamma-BHC	ND	1.7	0.53
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.68
Aldrin	ND	1.7	0.56
Heptachlor epoxide	ND	1.7	0.55
Endosulfan I	ND	1.7	0.79
Dieldrin	ND	3.3	1.3
4,4'-DDE	ND	3.3	1.2
Endrin	ND	3.3	1.7
Endosulfan II	ND	3.3	1.3
Endosulfan sulfate	ND	3.3	1.3
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.3
4,4'-DDT	ND	3.3	1.6
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.64
gamma-Chlordane	ND	1.7	0.57
Methoxychlor	ND	17	7.9
Toxaphene	ND	60	11

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC263011	Batch#:	94186
Matrix:	Soil	Prepared:	08/30/04
Units:	ug/Kg	Analyzed:	08/31/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.86	15.24	90	65-135
Heptachlor	16.86	15.89	94	65-135
Aldrin	16.86	15.95	95	65-135
Dieldrin	16.86	16.54	98	65-135
Endrin	16.86	16.28	97	65-135
4,4'-DDT	16.86	16.06	95	65-135

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	94186
MSS Lab ID:	173959-033	Sampled:	08/09/04
Matrix:	Soil	Received:	08/11/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	as received	Analyzed:	09/01/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC263012

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5200	16.62	15.88	96	65-135
Heptachlor	<0.6600	16.62	16.13	97	65-135
Aldrin	<0.5500	16.62	16.49	99	65-135
Dieldrin	<1.300	16.62	16.41	99	65-135
Endrin	<1.600	16.62	15.87	95	65-135
4,4'-DDT	<1.600	16.62	15.29	92	65-135

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	86	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC263013

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.74	15.35	92	65-135	4	35
Heptachlor	16.74	16.09	96	65-135	1	35
Aldrin	16.74	15.94	95	65-135	4	35
Dieldrin	16.74	15.86	95	65-135	4	35
Endrin	16.74	15.61	93	65-135	2	35
4,4'-DDT	16.74	16.30	97	65-135	6	35

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	91	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX118[0.5]	Batch#:	94186
MSS Lab ID:	174320-002	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Type: MS Moisture: 20%
Lab ID: QC263055 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.6625	21.04	17.63	84	65-135
Heptachlor	<0.8500	21.04	17.85	85	65-135
Aldrin	<0.7000	21.04	18.38	87	65-135
Dieldrin	<1.625	21.04	19.01	90	65-135
Endrin	<2.125	21.04	18.61	88	65-135
4,4'-DDT	<2.000	21.04	17.21	82	65-135

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	88	65-135

Type: MSD Moisture: 20%
Lab ID: QC263056 Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	20.85	20.06	96	65-135	14	35
Heptachlor	20.85	20.01	96	65-135	12	35
Aldrin	20.85	20.45	98	65-135	12	35
Dieldrin	20.85	20.81	100	65-135	10	35
Endrin	20.85	20.34	98	65-135	10	35
4,4'-DDT	20.85	18.58	89	65-135	9	35

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	89	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX121[0.5]	Batch#:	94186
MSS Lab ID:	174320-006	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Type: MS Moisture: 1%
Lab ID: QC263057 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5253	16.99	16.81	99	65-135
Heptachlor	<0.6667	16.99	17.18	101	65-135
Aldrin	<0.5556	16.99	17.33	102	65-135
Dieldrin	<1.313	16.99	17.49	103	65-135
Endrin	<1.616	16.99	17.29	102	65-135
4,4'-DDT	<1.616	16.99	16.61	98	65-135

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	97	65-135

Type: MSD Moisture: 1%
Lab ID: QC263058 Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.87	18.64	110	65-135	11	35
Heptachlor	16.87	19.79	117	65-135	15	35
Aldrin	16.87	19.49	116	65-135	12	35
Dieldrin	16.87	19.86	118	65-135	13	35
Endrin	16.87	20.07	119	65-135	16	35
4,4'-DDT	16.87	19.42	115	65-135	16	35

Surrogate	%REC	Limits
TCMX	113	65-135
Decachlorobiphenyl	119	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	232_014	804335061014	level_1	19-AUG-2004 22:41	04WS1513
2	232_015	804335061015	level_2	19-AUG-2004 23:10	04WS1512
3	232_016	804335061016	level_3	19-AUG-2004 23:40	04WS0927
4	232_017	804335061017	level_4	20-AUG-2004 00:09	04WS1434
5	232_018	804335061018	level_5	20-AUG-2004 00:38	04WS1509
6	232_019	804335061019	level_6	20-AUG-2004 01:08	04WS1508
7	232_020	804335061020	level_7	20-AUG-2004 01:37	04WS1507

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	21785	16650	18574	16306	15606	16405	16786	AVRG	R		5.732E-5		pg	17444	12	0.995	20	
gamma-BHC	A	20021	15125	16914	14674	13955	14361	15023	AVRG	R		6.359E-5		pg	15725	13	0.995	20	
beta-BHC	A	9482.5	6836.9	7419.4	6279.6	5889.2	5684.9	5762.7	AVRG	R		1.478E-4		pg	6765.0	20	0.995	20	
delta-BHC	A	23631	16068	17265	14919	13978	14341	14987	AVRG	R		6.077E-5		pg	16456	20	0.995	20	
Heptachlor	A	17428	13383	15081	13257	12502	12881	13538	AVRG	R		7.138E-5		pg	14010	12	0.995	20	
Aldrin	A	18258	13951	15262	13406	12739	12957	13491	AVRG	R		6.995E-5		pg	14295	14	0.995	20	
Heptachlor epoxide	A	17194	12996	14081	12346	11669	11632	11996	AVRG	R		7.616E-5		pg	13130	15	0.995	20	
gamma-Chlordane	A	18008	13185	14052	12436	11779	11886	12418	AVRG	R		7.466E-5		pg	13395	16	0.995	20	
alpha-Chlordane	A	16632	12561	13573	11903	11256	11277	11806	AVRG	R		7.865E-5		pg	12715	15	0.995	20	
4,4'-DDE	A	15271	11686	12856	11842	11232	11691	10815	AVRG	R		8.198E-5		pg	12199	12	0.995	20	
Endosulfan I	A	15959	12033	13113	11327	10635	10549	10968	AVRG	R		8.276E-5		pg	12083	16	0.995	20	
Dieldrin	A	16279	12416	13592	12305	11775	12000	11065	AVRG	R		7.827E-5		pg	12776	13	0.995	20	
Endrin	A	13575	10207	11619	9984.8	9386.3	9801.5	9312.6	AVRG	R		9.474E-5		pg	10555	15	0.995	20	
4,4'-DDD	A	12433	9338.1	10254	9361.4	8772.3	9253.9	8822.5	AVRG	R		1.026E-4		pg	9747.9	13	0.995	20	
Endosulfan II	A	14959	10910	11650	10404	9807.4	10081	9444.4	AVRG	R		9.061E-5		pg	11037	17	0.995	20	
4,4'-DDT	A	12781	9342.6	10458	9580.1	8903.0	9463.3	9095.0	AVRG	R		1.005E-4		pg	9946.1	14	0.995	20	
Endrin aldehyde	A	15806	9637.4	9084.3	8061.2	7605.3	7620.6	7520.2	AVRG	R		1.071E-4		pg	9333.6	32	0.995	20	rsd ***
Methoxychlor	A	5315.4	4028.8	4627.5	4350.2	3960.9	3596.0	2956.7	AVRG	R		2.428E-4		pg	4119.4	18	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	14853	9984.0	10329	9021.7	8332.8	8679.4	8595.9	AVRG	R		1.003E-4		pg	9970.7	23	0.995	20	rsd ***
Endrin ketone	A	15806	11246	11993	10822	10103	10258	9419.6	AVRG	R		8.789E-5		pg	11378	19	0.995	20	
TCMX	A	14324	10908	12100	10650	9926.3	10344	10186	AVRG	R		8.924E-5		pg	11206	14	0.995	20	
Decachlorobiphenyl	A	8570.5	6368.6	7915.2	7254.3	5798.8	5816.4	6301.1	AVRG	R		1.458E-4		pg	6860.7	16	0.995	20	
alpha-BHC	B	22588	15820	20445	18627	16802	17270	18773	AVRG	R		5.371E-5		pg	18618	12	0.995	20	
gamma-BHC	B	20986	14609	18610	16859	14979	15133	16798	AVRG	R		5.934E-5		pg	16853	14	0.995	20	
beta-BHC	B	10283	6859.4	8474.5	7426.7	6498.9	6182.9	7047.9	AVRG	R		1.326E-4		pg	7539.0	19	0.995	20	
delta-BHC	B	24673	15697	19119	17288	14969	15316	16704	AVRG	R		5.656E-5		pg	17681	19	0.995	20	
Heptachlor	B	12854	9300.3	12493	11976	10463	10771	13153	AVRG	R		8.641E-5		pg	11573	12	0.995	20	
Aldrin	B	19672	13740	17116	15600	13879	13771	15255	AVRG	R		6.420E-5		pg	15576	14	0.995	20	
Heptachlor epoxide	B	18541	12924	15789	14365	12625	12276	13605	AVRG	R		6.991E-5		pg	14304	15	0.995	20	
gamma-Chlordane	B	18678	13022	15898	14667	12779	12685	14132	AVRG	R		6.872E-5		pg	14552	15	0.995	20	
alpha-Chlordane	B	18198	12714	15277	14056	12177	11939	13398	AVRG	R		7.160E-5		pg	13966	16	0.995	20	
4,4'-DDE	B	16804	11774	14585	14146	12207	12034	11874	AVRG	R		7.493E-5		pg	13346	14	0.995	20	
Endosulfan I	B	17124	11985	14436	13279	11477	11219	12542	AVRG	R		7.604E-5		pg	13152	16	0.995	20	
Dieldrin	B	17837	12369	15313	14518	12550	12253	11990	AVRG	R		7.229E-5		pg	13833	16	0.995	20	
Endrin	B	13137	9164.3	11997	10776	9000.4	9271.3	9444.5	AVRG	R		9.617E-5		pg	10399	16	0.995	20	
4,4'-DDD	B	13546	9500.7	11551	11161	9215.5	9520.3	9541.1	AVRG	R		9.455E-5		pg	10577	15	0.995	20	
Endosulfan II	B	16186	10854	12991	12312	10228	10420	10247	AVRG	R		8.410E-5		pg	11891	18	0.995	20	
4,4'-DDT	B	11716	8301.3	10461	10345	8412.4	8872.1	9169.9	AVRG	R		1.040E-4		pg	9610.9	13	0.995	20	
Endrin aldehyde	B	16239	9420.0	10134	9446.9	7767.0	7892.7	8178.6	AVRG	R		1.013E-4		pg	9868.4	30	0.995	20	rsd ***
Methoxychlor	B	5014.2	3527.3	4494.2	4646.7	3586.1	3334.3	2882.9	AVRG	R		2.547E-4		pg	3926.5	20	0.995	20	
Endosulfan sulfate	B	16271	10225	11667	11124	8909.4	9335.7	9672.1	AVRG	R		9.067E-5		pg	11029	23	0.995	20	rsd ***
Endrin ketone	B	16522	10734	12585	12224	9697.8	9871.6	9438.4	AVRG	R		8.634E-5		pg	11582	22	0.995	20	rsd ***
TCMX	B	15393	10725	13397	12177	10791	10867	11356	AVRG	R		8.264E-5		pg	12101	14	0.995	20	
Decachlorobiphenyl	B		6237.9	7953.2	7933.0	5312.6	5382.6	5756.4	AVRG	R		1.555E-4		pg	6429.3	19	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	16		20	
EPA 8081A	B	22	17		20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804352004001 Run Name: Injected: 31-AUG-2004 10:44
Filename: 244_001 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	1177173.31
4,4'-DDE	A	4315.8
4,4'-DDD	A	38174.07

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	557476.93
Endrin aldehyde	A	28867.64
Endrin ketone	A	37825.1

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	697540.32
4,4'-DDE	B	3569.53
4,4'-DDD	B	25759.69

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	395066.35
Endrin aldehyde	B	20464.37
Endrin ketone	B	24977

Endrin Breakdown %: 10
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804352004017 Run Name: Injected: 31-AUG-2004 20:47
Filename: 244_017 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	1118237.4
4,4'-DDE	A	3789.23
4,4'-DDD	A	46676.68

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	570555.14
Endrin aldehyde	A	19355.51
Endrin ketone	A	37540

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	844150.62
4,4'-DDE	B	4459
4,4'-DDD	B	41362.36

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	466515.99
Endrin aldehyde	B	26133.74
Endrin ketone	B	35921

Endrin Breakdown %: 12
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804352004034 Run Name: Injected: 01-SEP-2004 05:08
Filename: 244_034 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	1159076.93
4,4'-DDE	A	4253.68
4,4'-DDD	A	48184.34

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	588346.94
Endrin aldehyde	A	21094.33
Endrin ketone	A	42301.61

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	922568.64
4,4'-DDE	B	3872.5
4,4'-DDD	B	40997.67

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	511401.64
Endrin aldehyde	B	21759.2
Endrin ketone	B	30886.5

Endrin Breakdown %: 9
Breakdown Limit %: 15

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : icv
Seqnum : 804335061023 Filename : 232_023 Injected : 20-AUG-2004 03:05
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1240

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	25.41403	pg	2	15	
gamma-BHC	A	25.00000	25.57481	pg	2	15	
beta-BHC	A	25.00000	24.94407	pg	0	15	
delta-BHC	A	25.00000	25.09650	pg	0	15	
Heptachlor	A	25.00000	26.14591	pg	5	15	
Aldrin	A	25.00000	25.87808	pg	4	15	
Heptachlor epoxide	A	25.00000	25.06501	pg	0	15	
gamma-Chlordane	A	25.00000	24.50592	pg	-2	15	
alpha-Chlordane	A	25.00000	25.35041	pg	1	15	
4,4'-DDE	A	25.00000	26.20180	pg	5	15	
Endosulfan I	A	25.00000	25.44399	pg	2	15	
Dieldrin	A	25.00000	26.14962	pg	5	15	
Endrin	A	25.00000	25.99776	pg	4	15	
4,4'-DDD	A	25.00000	25.95091	pg	4	15	
Endosulfan II	A	25.00000	25.95358	pg	4	15	
4,4'-DDT	A	25.00000	27.19847	pg	9	15	
Endrin aldehyde	A	25.00000	23.96465	pg	-4	15	
Methoxychlor	A	25.00000	32.23480	pg	29	15	v+ ***
Endosulfan sulfate	A	25.00000	25.12152	pg	0	15	
Endrin ketone	A	25.00000	25.91763	pg	4	15	
TCMX	A	26.00000	26.72327	pg	3	15	
Decachlorobiphenyl	A	26.00000	25.84430	pg	-1	15	
alpha-BHC	B	25.00000	25.04586	pg	0	15	
gamma-BHC	B	25.00000	24.92051	pg	0	15	
beta-BHC	B	25.00000	24.14289	pg	-3	15	
delta-BHC	B	25.00000	24.32690	pg	-3	15	
Heptachlor	B	25.00000	26.83894	pg	7	15	
Aldrin	B	25.00000	25.21885	pg	1	15	
Heptachlor epoxide	B	25.00000	24.19502	pg	-3	15	
gamma-Chlordane	B	25.00000	23.87894	pg	-4	15	
alpha-Chlordane	B	25.00000	24.35130	pg	-3	15	
4,4'-DDE	B	25.00000	25.22878	pg	1	15	
Endosulfan I	B	25.00000	24.64344	pg	-1	15	
Dieldrin	B	25.00000	25.15859	pg	1	15	
Endrin	B	25.00000	25.12954	pg	1	15	
4,4'-DDD	B	25.00000	24.47497	pg	-2	15	
Endosulfan II	B	25.00000	24.65114	pg	-1	15	
4,4'-DDT	B	25.00000	25.37088	pg	1	15	
Endrin aldehyde	B	25.00000	23.58776	pg	-6	15	
Methoxychlor	B	25.00000	28.86940	pg	15	15	
Endosulfan sulfate	B	25.00000	23.44076	pg	-6	15	
Endrin ketone	B	25.00000	24.03293	pg	-4	15	
TCMX	B	26.00000	26.46687	pg	2	15	
Decachlorobiphenyl	B	26.00000	24.73111	pg	-5	15	

+=high bias v=ICV

CONTINUING CALIBRATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804352004035 Filename : 244_035 Injected : 01-SEP-2004 05:37
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1434

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	19289	20.00000	22.11491	pg	11	15	
gamma-BHC	A	15725	17367	20.00000	22.08837	pg	10	15	
beta-BHC	A	6765.0	7440.8	20.00000	21.99790	pg	10	15	
delta-BHC	A	16456	17622	20.00000	21.41742	pg	7	15	
Heptachlor	A	14010	14574	20.00000	20.80518	pg	4	15	
Aldrin	A	14295	15858	20.00000	22.18634	pg	11	15	
Heptachlor epoxide	A	13130	14554	20.00000	22.16847	pg	11	15	
gamma-Chlordane	A	13395	14713	20.00000	21.96874	pg	10	15	
alpha-Chlordane	A	12715	14099	20.00000	22.17606	pg	11	15	
4,4'-DDE	A	12199	14323	40.00000	46.96553	pg	17	15	c+ ***
Endosulfan I	A	12083	13281	20.00000	21.98282	pg	10	15	
Dieldrin	A	12776	14690	40.00000	45.99150	pg	15	15	
Endrin	A	10555	9850.5	40.00000	37.32964	pg	-7	15	
4,4'-DDD	A	9747.9	11536	40.00000	47.33815	pg	18	15	c+ ***
Endosulfan II	A	11037	12184	40.00000	44.15752	pg	10	15	
4,4'-DDT	A	9946.1	9737.7	40.00000	39.16157	pg	-2	15	
Endrin aldehyde	A	9333.6	9727.8	40.00000	41.68936	pg	4	15	rsd ***
Methoxychlor	A	4119.4	4390.3	200.0000	213.1556	pg	7	15	
Endosulfan sulfate	A	9970.7	10237	40.00000	41.06880	pg	3	15	rsd ***
Endrin ketone	A	11378	13004	40.00000	45.71607	pg	14	15	
TCMX	A	11206	12269	40.00000	43.79588	pg	9	15	
Decachlorobiphenyl	A	6860.7	6719.8	40.00000	39.17832	pg	-2	15	
alpha-BHC	B	18618	19876	20.00000	21.35195	pg	7	15	
gamma-BHC	B	16853	17763	20.00000	21.07888	pg	5	15	
beta-BHC	B	7539.0	7776.7	20.00000	20.63037	pg	3	15	
delta-BHC	B	17681	17925	20.00000	20.27628	pg	1	15	
Heptachlor	B	11573	11796	20.00000	20.38615	pg	2	15	
Aldrin	B	15576	16295	20.00000	20.92327	pg	5	15	
Heptachlor epoxide	B	14304	14671	20.00000	20.51398	pg	3	15	
gamma-Chlordane	B	14552	15023	20.00000	20.64832	pg	3	15	
alpha-Chlordane	B	13966	14246	20.00000	20.40218	pg	2	15	
4,4'-DDE	B	13346	14185	40.00000	42.51327	pg	6	15	
Endosulfan I	B	13152	13389	20.00000	20.36081	pg	2	15	
Dieldrin	B	13833	14371	40.00000	41.55560	pg	4	15	
Endrin	B	10399	8974.9	40.00000	34.52379	pg	-14	15	
4,4'-DDD	B	10577	11148	40.00000	42.16102	pg	5	15	
Endosulfan II	B	11891	12077	40.00000	40.62575	pg	2	15	
4,4'-DDT	B	9610.9	8560.2	40.00000	35.62715	pg	-11	15	
Endrin aldehyde	B	9868.4	9605.7	40.00000	38.93516	pg	-3	15	rsd ***
Methoxychlor	B	3926.5	3710.8	200.0000	189.0130	pg	-5	15	
Endosulfan sulfate	B	11029	10623	40.00000	38.52774	pg	-4	15	rsd ***
Endrin ketone	B	11582	11896	40.00000	41.08457	pg	3	15	rsd ***
TCMX	B	12101	12662	40.00000	41.85413	pg	5	15	
Decachlorobiphenyl	B	6429.3	5704.5	40.00000	35.49098	pg	-11	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				5	15	

+=high bias c=CCV rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804352004003 Filename : 244_003 Injected : 31-AUG-2004 11:42
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1434

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	18696	20.00000	21.43503	pg	7	15	
gamma-BHC	A	15725	16821	20.00000	21.39361	pg	7	15	
beta-BHC	A	6765.0	7213.2	20.00000	21.32511	pg	7	15	
delta-BHC	A	16456	17126	20.00000	20.81431	pg	4	15	
Heptachlor	A	14010	13887	20.00000	19.82443	pg	-1	15	
Aldrin	A	14295	15487	20.00000	21.66741	pg	8	15	
Heptachlor epoxide	A	13130	14250	20.00000	21.70455	pg	9	15	
gamma-Chlordane	A	13395	14429	20.00000	21.54417	pg	8	15	
alpha-Chlordane	A	12715	13899	20.00000	21.86171	pg	9	15	
4,4'-DDE	A	12199	14168	40.00000	46.45724	pg	16	15	c+ ***
Endosulfan I	A	12083	13046	20.00000	21.59340	pg	8	15	
Dieldrin	A	12776	14301	40.00000	44.77419	pg	12	15	
Endrin	A	10555	9435.9	40.00000	35.75846	pg	-11	15	
4,4'-DDD	A	9747.9	11087	40.00000	45.49436	pg	14	15	
Endosulfan II	A	11037	12131	40.00000	43.96597	pg	10	15	
4,4'-DDT	A	9946.1	9527.1	40.00000	38.31476	pg	-4	15	
Endrin aldehyde	A	9333.6	9683.4	40.00000	41.49900	pg	4	15	rsd ***
Methoxychlor	A	4119.4	4143.8	200.0000	201.1854	pg	1	15	
Endosulfan sulfate	A	9970.7	10209	40.00000	40.95538	pg	2	15	rsd ***
Endrin ketone	A	11378	12856	40.00000	45.19324	pg	13	15	
TCMX	A	11206	11995	40.00000	42.81738	pg	7	15	
Decachlorobiphenyl	A	6860.7	6763.0	40.00000	39.43042	pg	-1	15	
alpha-BHC	B	18618	17877	20.00000	19.20356	pg	-4	15	
gamma-BHC	B	16853	15974	20.00000	18.95657	pg	-5	15	
beta-BHC	B	7539.0	7088.1	20.00000	18.80374	pg	-6	15	
delta-BHC	B	17681	16211	20.00000	18.33759	pg	-8	15	
Heptachlor	B	11573	9771.0	20.00000	16.88606	pg	-16	15	c- ***
Aldrin	B	15576	14907	20.00000	19.14036	pg	-4	15	
Heptachlor epoxide	B	14304	13329	20.00000	18.63745	pg	-7	15	
gamma-Chlordane	B	14552	13859	20.00000	19.04762	pg	-5	15	
alpha-Chlordane	B	13966	13283	20.00000	19.02307	pg	-5	15	
4,4'-DDE	B	13346	13264	40.00000	39.75352	pg	-1	15	
Endosulfan I	B	13152	12343	20.00000	18.77083	pg	-6	15	
Dieldrin	B	13833	12975	40.00000	37.51993	pg	-6	15	
Endrin	B	10399	7782.6	40.00000	29.93719	pg	-25	15	c- ***
4,4'-DDD	B	10577	10028	40.00000	37.92661	pg	-5	15	
Endosulfan II	B	11891	11281	40.00000	37.94736	pg	-5	15	
4,4'-DDT	B	9610.9	7742.9	40.00000	32.22537	pg	-19	15	c- ***
Endrin aldehyde	B	9868.4	9046.9	40.00000	36.67015	pg	-8	15	rsd ***
Methoxychlor	B	3926.5	3162.5	200.0000	161.0831	pg	-19	15	c- ***
Endosulfan sulfate	B	11029	9907.9	40.00000	35.93310	pg	-10	15	rsd ***
Endrin ketone	B	11582	10952	40.00000	37.82513	pg	-5	15	rsd ***
TCMX	B	12101	11535	40.00000	38.13024	pg	-5	15	
Decachlorobiphenyl	B	6429.3	5703.0	40.00000	35.48162	pg	-11	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				9	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804352004018 Filename : 244_018 Injected : 31-AUG-2004 21:16
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1511

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	18564	10.00000	10.64175	pg	6	15	
gamma-BHC	A	15725	16815	10.00000	10.69346	pg	7	15	
beta-BHC	A	6765.0	7412.6	10.00000	10.95727	pg	10	15	
delta-BHC	A	16456	16872	10.00000	10.25316	pg	3	15	
Heptachlor	A	14010	14022	10.00000	10.00846	pg	0	15	
Aldrin	A	14295	15398	10.00000	10.77138	pg	8	15	
Heptachlor epoxide	A	13130	14266	10.00000	10.86480	pg	9	15	
gamma-Chlordane	A	13395	14274	10.00000	10.65633	pg	7	15	
alpha-Chlordane	A	12715	13822	10.00000	10.87018	pg	9	15	
4,4'-DDE	A	12199	13312	20.00000	21.82547	pg	9	15	
Endosulfan I	A	12083	13063	10.00000	10.81044	pg	8	15	
Dieldrin	A	12776	13754	20.00000	21.53160	pg	8	15	
Endrin	A	10555	9683.9	20.00000	18.34900	pg	-8	15	
4,4'-DDD	A	9747.9	10936	20.00000	22.43845	pg	12	15	
Endosulfan II	A	11037	11761	20.00000	21.31235	pg	7	15	
4,4'-DDT	A	9946.1	9262.1	20.00000	18.62453	pg	-7	15	
Endrin aldehyde	A	9333.6	9442.8	20.00000	20.23399	pg	1	15	rsd ***
Methoxychlor	A	4119.4	3965.7	100.0000	96.26951	pg	-4	15	
Endosulfan sulfate	A	9970.7	9998.6	20.00000	20.05596	pg	0	15	rsd ***
Endrin ketone	A	11378	12372	20.00000	21.74691	pg	9	15	
TCMX	A	11206	12059	20.00000	21.52356	pg	8	15	
Decachlorobiphenyl	A	6860.7	7043.1	20.00000	20.53164	pg	3	15	
alpha-BHC	B	18618	19385	10.00000	10.41228	pg	4	15	
gamma-BHC	B	16853	17407	10.00000	10.32859	pg	3	15	
beta-BHC	B	7539.0	7884.7	10.00000	10.45851	pg	5	15	
delta-BHC	B	17681	17423	10.00000	9.854215	pg	-1	15	
Heptachlor	B	11573	10847	10.00000	9.372412	pg	-6	15	
Aldrin	B	15576	15969	10.00000	10.25237	pg	3	15	
Heptachlor epoxide	B	14304	14468	10.00000	10.11503	pg	1	15	
gamma-Chlordane	B	14552	14626	10.00000	10.05103	pg	1	15	
alpha-Chlordane	B	13966	14038	10.00000	10.05190	pg	1	15	
4,4'-DDE	B	13346	13378	20.00000	20.04803	pg	0	15	
Endosulfan I	B	13152	13207	10.00000	10.04194	pg	0	15	
Dieldrin	B	13833	13714	20.00000	19.82869	pg	-1	15	
Endrin	B	10399	8220.6	20.00000	15.81097	pg	-21	15	c- ***
4,4'-DDD	B	10577	10586	20.00000	20.01845	pg	0	15	
Endosulfan II	B	11891	11652	20.00000	19.59711	pg	-2	15	
4,4'-DDT	B	9610.9	7716.4	20.00000	16.05756	pg	-20	15	c- ***
Endrin aldehyde	B	9868.4	9381.3	20.00000	19.01289	pg	-5	15	rsd ***
Methoxychlor	B	3926.5	3137.2	100.0000	79.89641	pg	-20	15	c- ***
Endosulfan sulfate	B	11029	10079	20.00000	18.27716	pg	-9	15	rsd ***
Endrin ketone	B	11582	11368	20.00000	19.63055	pg	-2	15	rsd ***
TCMX	B	12101	12789	20.00000	21.13804	pg	6	15	
Decachlorobiphenyl	B	6429.3	5896.3	20.00000	18.34190	pg	-8	15	
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure

SEQUENCE SUMMARY FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	232_001	X	hex			19-AUG-2004 15:22	1.0						
003	232_003	X	pest_4			19-AUG-2004 16:21	1.0					1	
004	232_004	X	ccv			19-AUG-2004 16:50	1.0					1	
011	232_011	X	hex			19-AUG-2004 21:13	1.0						
013	232_013	X	hex			19-AUG-2004 22:12	1.0						
014	232_014	ICAL	level_1			19-AUG-2004 22:41	1.0	1.0				2	
015	232_015	ICAL	level_2			19-AUG-2004 23:10	1.0	1.0				3	
016	232_016	ICAL	level_3			19-AUG-2004 23:40	1.0	1.0				4	
017	232_017	ICAL	level_4			20-AUG-2004 00:09	1.0	1.0				5	
018	232_018	ICAL	level_5			20-AUG-2004 00:38	1.0	1.0				6	
019	232_019	ICAL	level_6			20-AUG-2004 01:08	1.0	1.0				7	
020	232_020	ICAL	level_7			20-AUG-2004 01:37	1.0	1.0				8	
022	232_022	PEM				20-AUG-2004 02:36	1.0	1.0			1	9	
023	232_023	ICV	icv			20-AUG-2004 03:05	1.0	1.0	1		1	10	
024	232_024	X				20-AUG-2004 03:34	1.0					10	
026	232_026	BLANK	QC261824	93904	Soil	20-AUG-2004 04:33	1.0	0.657	4		1		
027	232_027	LCS	QC261825	93904	Soil	20-AUG-2004 05:02	1.0	0.6743	8		1		
028	232_028	MSS	173867-002	93904	Soil	20-AUG-2004 05:32	5.0	0.6583	4		1		
029	232_029	MS	QC261826	93904	Soil	20-AUG-2004 06:01	5.0	0.6745	7	8	1		
030	232_030	MSD	QC261827	93904	Soil	20-AUG-2004 06:31	5.0	0.6566	7	9	1		
031	232_031	SAMPLE	174092-003	93904	Soil	20-AUG-2004 07:00	20.0	0.668	4		1		
032	232_032	SAMPLE	174073-002	93856	Soil	20-AUG-2004 13:09	1.0	0.6752	3		1		
033	232_033	SAMPLE	174073-003	93856	Soil	20-AUG-2004 13:38	1.0	0.6579	3		1		
034	232_034	SAMPLE	174073-004	93856	Soil	20-AUG-2004 14:15	1.0	0.6748	3		1		
035	232_035	SAMPLE	174073-005	93856	Soil	20-AUG-2004 14:44	1.0	0.6592	3		1		
037	232_037	PEM				20-AUG-2004 15:43	1.0	1.0			1	9	
038	232_038	CCV	pest_4			20-AUG-2004 16:12	1.0	1.0	8		1	1	
041	232_041	BLANK	QC261674	93866	Water	20-AUG-2004 19:41	1.0	0.01	4		1		
042	232_042	BS	QC261675	93866	Water	20-AUG-2004 20:10	1.0	0.01	19		1		2:ENDRIN=279.423
043	232_043	BSD	QC261676	93866	Water	20-AUG-2004 20:39	1.0	0.01	19		1		2:ENDRIN=249.084

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375

Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804335061 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 19-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
080	232_080	SAMPLE	173998-007	93907	Water	21-AUG-2004 14:49	1.0	0.009434	1		1	spk	
081	232_081	SAMPLE	174003-002	93907	Water	21-AUG-2004 15:19	1.0	0.01	1	2	1	spk	
082	232_082	SAMPLE	174003-003	93907	Water	21-AUG-2004 15:48	1.0	0.01	1	1	1	spk	
083	232_083	SAMPLE	174003-004	93907	Water	21-AUG-2004 16:18	1.0	0.009615	1		1	spk	
085	232_085	PEM				21-AUG-2004 17:16	1.0	1.0			1	11	
086	232_086	X	ccv			21-AUG-2004 17:46	1.0					12	
087	232_087	CCV	ccv			21-AUG-2004 18:15	1.0	1.0	6		1	13	
088	232_088	X	ccv			21-AUG-2004 18:45	1.0					13	
091	232_091	SAMPLE	174062-002	93907	Water	21-AUG-2004 20:13	1.0	0.009434	2		1		
092	232_092	SAMPLE	174062-003	93907	Water	21-AUG-2004 20:43	1.0	0.009434	2		1		
093	232_093	SAMPLE	174062-004	93907	Water	21-AUG-2004 21:12	1.0	0.009434	2		1		
094	232_094	SAMPLE	173959-024	93777	Soil	21-AUG-2004 21:42	1.0						
095	232_095	SAMPLE	173929-011	93758	Soil	21-AUG-2004 22:11	10.0	0.6734	2		1		
096	232_096	SAMPLE	173929-014	93758	Soil	21-AUG-2004 22:40	10.0	0.664	2		1		
097	232_097	MS	QC261226	93752	Soil	21-AUG-2004 23:10	2.0	0.6633	6		1		
098	232_098	MSD	QC261227	93752	Soil	21-AUG-2004 23:39	2.0	0.6566	6		1		
099	232_099	SAMPLE	174074-001	93856	Soil	22-AUG-2004 00:09	2.0						
100	232_100	SAMPLE	174031-003	93820	Soil	22-AUG-2004 00:38	5.0						
102	232_102	PEM				22-AUG-2004 01:37	1.0	1.0			1	9	
103	232_103	X	pest_4			22-AUG-2004 02:06	1.0					1	
104	232_104	CCV	pest_4			22-AUG-2004 02:36	1.0	1.0	5		1	1	

Stds used: 1=04WS0926 2=04WS1513 3=04WS1512 4=04WS0927 5=04WS1434 6=04WS1509 7=04WS1508 8=04WS1507 9=04WS0930 10=04WS1240 11=04WS1389 12=04WS1385 13=04WS1375
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804352004 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 31-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	244_001	PEM				31-AUG-2004 10:44	1.0	1.0			1	1	
002	244_002	X	pest_4			31-AUG-2004 11:13	1.0					2	
003	244_003	CCV	ccv			31-AUG-2004 11:42	1.0	1.0	10		1	2	
004	244_004	X	ccv			31-AUG-2004 12:24	1.0					2	
006	244_006	BLANK	QC263010	94186	Soil	31-AUG-2004 13:23	1.0	0.67	4		1		
007	244_007	LCS	QC263011	94186	Soil	31-AUG-2004 13:53	1.0	0.6743	10		1		
008	244_008	SAMPLE	174286-001	94186	Soil	31-AUG-2004 14:22	1.0	0.6616	4		1		
009	244_009	SAMPLE	174254-001	94186	Soil	31-AUG-2004 14:52	20.0						
010	244_010	SAMPLE	174254-001	94186	Soil	31-AUG-2004 15:42	2.0	0.6757	4		1		
011	244_011	SAMPLE	173959-015	94186	Soil	31-AUG-2004 17:51	1.0						
012	244_012	SAMPLE	173959-019	94186	Soil	31-AUG-2004 18:20	1.0	0.6702	44		1	sh	
013	244_013	SAMPLE	173959-027	94186	Soil	31-AUG-2004 18:49	1.0	0.6729	44		1	sh	
014	244_014	SAMPLE	173959-031	94186	Soil	31-AUG-2004 19:19	1.0	0.6667	44		1	sh	
015	244_015	MSS	173959-033	94186	Soil	31-AUG-2004 19:48	1.0	0.657	46		1	sh	
017	244_017	PEM				31-AUG-2004 20:47	1.0	1.0			1	1	
018	244_018	CCV	pest_3			31-AUG-2004 21:16	1.0	1.0	8		1	3	
019	244_019	X	ccv			31-AUG-2004 21:46	1.0					3	
020	244_020	X	ccv			31-AUG-2004 22:15	1.0					4	
023	244_023	MSS	174320-002	94186	Soil	31-AUG-2004 23:44	1.0	0.6716	3		1		
024	244_024	SAMPLE	174320-004	94186	Soil	01-SEP-2004 00:13	1.0	0.6673	4		1		
025	244_025	SAMPLE	174320-005	94186	Soil	01-SEP-2004 00:43	1.0	0.6684	3		1		
026	244_026	MSS	174320-006	94186	Soil	01-SEP-2004 01:12	1.0	0.6566	3		1		
027	244_027	MS	QC263012	94186	Soil	01-SEP-2004 01:42	1.0	0.6649	10		1		
028	244_028	MSD	QC263013	94186	Soil	01-SEP-2004 02:11	1.0	0.6696	10		1		
029	244_029	MS	QC263055	94186	Soil	01-SEP-2004 02:41	1.0	0.6734	10		1		
030	244_030	MSD	QC263056	94186	Soil	01-SEP-2004 03:10	1.0	0.6673	10		1		
031	244_031	MS	QC263057	94186	Soil	01-SEP-2004 03:39	1.0	0.6729	10	1	1		
032	244_032	MSD	QC263058	94186	Soil	01-SEP-2004 04:09	1.0	0.668	10		1		
034	244_034	PEM				01-SEP-2004 05:08	1.0	1.0			1	1	
035	244_035	CCV	pest_4			01-SEP-2004 05:37	1.0	1.0	7		1	2	

Stds used: 1=04WS0930 2=04WS1434 3=04WS1511 4=04WS1509 5=04WS1461
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 174320 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804352004 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 31-AUG-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	244_036	X	ccv			01-SEP-2004 06:07	1.0					2	
039	244_039	ICAL	tox_500			01-SEP-2004 11:03	1.0	1.0				5	
041	244_041	SAMPLE	174255-001	94186	Soil	01-SEP-2004 12:01	5.0	0.6696	4		1		
042	244_042	SAMPLE	173959-015	94186	Soil	01-SEP-2004 12:31	10.0	0.6739	44		1	sh	
044	244_044	PEM				01-SEP-2004 14:06	1.0	1.0			1	1	
045	244_045	CCV	pest_3			01-SEP-2004 14:36	1.0	1.0	9		1	3	
046	244_046	X	tox_500			01-SEP-2004 15:14	1.0					5	
047	244_047	CCV	ccv			01-SEP-2004 15:43	1.0	1.0			1	5	
049	244_049	BLANK	QC263179	94228	Water	01-SEP-2004 18:13	1.0	0.01	4		1		
050	244_050	BS	QC263180	94228	Water	01-SEP-2004 18:42	1.0	0.01	11	1	1		
051	244_051	BSD	QC263181	94228	Water	01-SEP-2004 19:12	1.0	0.01	11	1	1		
052	244_052	SAMPLE	174304-019	94228	Water	01-SEP-2004 19:41	1.0	0.009901	4		1		
053	244_053	SAMPLE	174304-035	94228	Water	01-SEP-2004 20:11	1.0	0.009524	4		1		
055	244_055	X				01-SEP-2004 21:10	1.0					1	
056	244_056	CCV	pest_4			01-SEP-2004 21:39	1.0	1.0	8		1	2	
057	244_057	X	ccv			01-SEP-2004 22:08	1.0					2	
058	244_058	PEM	pem			01-SEP-2004 22:38	1.0	1.0			1	1	

Stds used: 1=04WS0930 2=04WS1434 3=04WS1511 4=04WS1509 5=04WS1461
Flags used: sh=out of sample hold

Reporting Summary for 174320 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174320-002	alpha-BHC	GC23	A	08/31/04 23:44
174320-002	beta-BHC	GC23	A	08/31/04 23:44
174320-002	gamma-BHC	GC23	A	08/31/04 23:44
174320-002	delta-BHC	GC23	A	08/31/04 23:44
174320-002	Heptachlor	GC23	A	08/31/04 23:44
174320-002	Aldrin	GC23	A	08/31/04 23:44
174320-002	Heptachlor epoxide	GC23	A	08/31/04 23:44
174320-002	Endosulfan I	GC23	A	08/31/04 23:44
174320-002	Dieldrin	GC23	A	08/31/04 23:44
174320-002	4,4'-DDE	GC23	B	08/31/04 23:44
174320-002	Endrin	GC23	A	08/31/04 23:44
174320-002	Endosulfan II	GC23	A	08/31/04 23:44
174320-002	Endosulfan sulfate	GC23	A	08/31/04 23:44
174320-002	4,4'-DDD	GC23	B	08/31/04 23:44
174320-002	Endrin ketone	GC23	A	08/31/04 23:44
174320-002	4,4'-DDT	GC23	A	08/31/04 23:44
174320-002	Chlordane (Technical)	GC23	A	08/31/04 23:44
174320-002	alpha-Chlordane	GC23	A	08/31/04 23:44
174320-002	gamma-Chlordane	GC23	A	08/31/04 23:44
174320-002	Methoxychlor	GC23	A	08/31/04 23:44
174320-002	Toxaphene	GC23	A	08/31/04 23:44
174320-002	TCMX	GC23	A	08/31/04 23:44
174320-002	Decachlorobiphenyl	GC23	A	08/31/04 23:44
174320-004	alpha-BHC	GC23	A	09/01/04 00:13
174320-004	beta-BHC	GC23	A	09/01/04 00:13
174320-004	gamma-BHC	GC23	A	09/01/04 00:13
174320-004	delta-BHC	GC23	A	09/01/04 00:13
174320-004	Heptachlor	GC23	A	09/01/04 00:13
174320-004	Aldrin	GC23	A	09/01/04 00:13
174320-004	Heptachlor epoxide	GC23	A	09/01/04 00:13
174320-004	Endosulfan I	GC23	A	09/01/04 00:13
174320-004	Dieldrin	GC23	A	09/01/04 00:13
174320-004	4,4'-DDE	GC23	B	09/01/04 00:13
174320-004	Endrin	GC23	A	09/01/04 00:13
174320-004	Endosulfan II	GC23	A	09/01/04 00:13
174320-004	Endosulfan sulfate	GC23	A	09/01/04 00:13
174320-004	4,4'-DDD	GC23	B	09/01/04 00:13
174320-004	Endrin ketone	GC23	A	09/01/04 00:13
174320-004	4,4'-DDT	GC23	B	09/01/04 00:13
174320-004	Chlordane (Technical)	GC23	A	09/01/04 00:13
174320-004	alpha-Chlordane	GC23	A	09/01/04 00:13
174320-004	gamma-Chlordane	GC23	B	09/01/04 00:13
174320-004	Methoxychlor	GC23	A	09/01/04 00:13
174320-004	Toxaphene	GC23	A	09/01/04 00:13
174320-004	TCMX	GC23	A	09/01/04 00:13
174320-004	Decachlorobiphenyl	GC23	A	09/01/04 00:13
174320-005	alpha-BHC	GC23	A	09/01/04 00:43
174320-005	beta-BHC	GC23	A	09/01/04 00:43
174320-005	gamma-BHC	GC23	A	09/01/04 00:43
174320-005	delta-BHC	GC23	A	09/01/04 00:43
174320-005	Heptachlor	GC23	A	09/01/04 00:43
174320-005	Aldrin	GC23	A	09/01/04 00:43

Reporting Summary for 174320 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174320-005	Heptachlor epoxide	GC23	A	09/01/04 00:43
174320-005	Endosulfan I	GC23	A	09/01/04 00:43
174320-005	Dieldrin	GC23	A	09/01/04 00:43
174320-005	4,4'-DDE	GC23	B	09/01/04 00:43
174320-005	Endrin	GC23	A	09/01/04 00:43
174320-005	Endosulfan II	GC23	A	09/01/04 00:43
174320-005	Endosulfan sulfate	GC23	A	09/01/04 00:43
174320-005	4,4'-DDD	GC23	B	09/01/04 00:43
174320-005	Endrin ketone	GC23	A	09/01/04 00:43
174320-005	4,4'-DDT	GC23	B	09/01/04 00:43
174320-005	Chlordane (Technical)	GC23	A	09/01/04 00:43
174320-005	alpha-Chlordane	GC23	A	09/01/04 00:43
174320-005	gamma-Chlordane	GC23	A	09/01/04 00:43
174320-005	Methoxychlor	GC23	A	09/01/04 00:43
174320-005	Toxaphene	GC23	A	09/01/04 00:43
174320-005	TCMX	GC23	A	09/01/04 00:43
174320-005	Decachlorobiphenyl	GC23	A	09/01/04 00:43
174320-006	alpha-BHC	GC23	A	09/01/04 01:12
174320-006	beta-BHC	GC23	A	09/01/04 01:12
174320-006	gamma-BHC	GC23	A	09/01/04 01:12
174320-006	delta-BHC	GC23	A	09/01/04 01:12
174320-006	Heptachlor	GC23	A	09/01/04 01:12
174320-006	Aldrin	GC23	A	09/01/04 01:12
174320-006	Heptachlor epoxide	GC23	A	09/01/04 01:12
174320-006	Endosulfan I	GC23	A	09/01/04 01:12
174320-006	Dieldrin	GC23	A	09/01/04 01:12
174320-006	4,4'-DDE	GC23	B	09/01/04 01:12
174320-006	Endrin	GC23	A	09/01/04 01:12
174320-006	Endosulfan II	GC23	A	09/01/04 01:12
174320-006	Endosulfan sulfate	GC23	A	09/01/04 01:12
174320-006	4,4'-DDD	GC23	B	09/01/04 01:12
174320-006	Endrin ketone	GC23	A	09/01/04 01:12
174320-006	4,4'-DDT	GC23	A	09/01/04 01:12
174320-006	Chlordane (Technical)	GC23	A	09/01/04 01:12
174320-006	alpha-Chlordane	GC23	A	09/01/04 01:12
174320-006	gamma-Chlordane	GC23	A	09/01/04 01:12
174320-006	Methoxychlor	GC23	A	09/01/04 01:12
174320-006	Toxaphene	GC23	A	09/01/04 01:12
174320-006	TCMX	GC23	A	09/01/04 01:12
174320-006	Decachlorobiphenyl	GC23	A	09/01/04 01:12
QC263010	alpha-BHC	GC23	A	08/31/04 13:23
QC263010	beta-BHC	GC23	A	08/31/04 13:23
QC263010	gamma-BHC	GC23	A	08/31/04 13:23
QC263010	delta-BHC	GC23	A	08/31/04 13:23
QC263010	Heptachlor	GC23	A	08/31/04 13:23
QC263010	Aldrin	GC23	A	08/31/04 13:23
QC263010	Heptachlor epoxide	GC23	A	08/31/04 13:23
QC263010	Endosulfan I	GC23	A	08/31/04 13:23
QC263010	Dieldrin	GC23	A	08/31/04 13:23
QC263010	4,4'-DDE	GC23	A	08/31/04 13:23
QC263010	Endrin	GC23	A	08/31/04 13:23
QC263010	Endosulfan II	GC23	A	08/31/04 13:23

Reporting Summary for 174320 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC263010	Endosulfan sulfate	GC23	A	08/31/04 13:23
QC263010	4,4'-DDD	GC23	A	08/31/04 13:23
QC263010	Endrin ketone	GC23	A	08/31/04 13:23
QC263010	4,4'-DDT	GC23	A	08/31/04 13:23
QC263010	Chlordane (Technical)	GC23	A	08/31/04 13:23
QC263010	alpha-Chlordane	GC23	A	08/31/04 13:23
QC263010	gamma-Chlordane	GC23	A	08/31/04 13:23
QC263010	Methoxychlor	GC23	A	08/31/04 13:23
QC263010	Toxaphene	GC23	A	08/31/04 13:23
QC263010	TCMX	GC23	A	08/31/04 13:23
QC263010	Decachlorobiphenyl	GC23	A	08/31/04 13:23
QC263011	gamma-BHC	GC23	A	08/31/04 13:53
QC263011	Heptachlor	GC23	A	08/31/04 13:53
QC263011	Aldrin	GC23	A	08/31/04 13:53
QC263011	Dieldrin	GC23	A	08/31/04 13:53
QC263011	Endrin	GC23	A	08/31/04 13:53
QC263011	4,4'-DDT	GC23	A	08/31/04 13:53
QC263011	TCMX	GC23	A	08/31/04 13:53
QC263011	Decachlorobiphenyl	GC23	A	08/31/04 13:53
QC263012	gamma-BHC	GC23	A	09/01/04 01:42
QC263012	Heptachlor	GC23	A	09/01/04 01:42
QC263012	Aldrin	GC23	A	09/01/04 01:42
QC263012	Dieldrin	GC23	A	09/01/04 01:42
QC263012	Endrin	GC23	A	09/01/04 01:42
QC263012	4,4'-DDT	GC23	A	09/01/04 01:42
QC263012	TCMX	GC23	A	09/01/04 01:42
QC263012	Decachlorobiphenyl	GC23	A	09/01/04 01:42
QC263013	gamma-BHC	GC23	A	09/01/04 02:11
QC263013	Heptachlor	GC23	A	09/01/04 02:11
QC263013	Aldrin	GC23	A	09/01/04 02:11
QC263013	Dieldrin	GC23	A	09/01/04 02:11
QC263013	Endrin	GC23	A	09/01/04 02:11
QC263013	4,4'-DDT	GC23	A	09/01/04 02:11
QC263013	TCMX	GC23	A	09/01/04 02:11
QC263013	Decachlorobiphenyl	GC23	A	09/01/04 02:11
QC263055	gamma-BHC	GC23	A	09/01/04 02:41
QC263055	Heptachlor	GC23	A	09/01/04 02:41
QC263055	Aldrin	GC23	A	09/01/04 02:41
QC263055	Dieldrin	GC23	A	09/01/04 02:41
QC263055	Endrin	GC23	A	09/01/04 02:41
QC263055	4,4'-DDT	GC23	A	09/01/04 02:41
QC263055	TCMX	GC23	A	09/01/04 02:41
QC263055	Decachlorobiphenyl	GC23	A	09/01/04 02:41
QC263056	gamma-BHC	GC23	A	09/01/04 03:10
QC263056	Heptachlor	GC23	A	09/01/04 03:10
QC263056	Aldrin	GC23	A	09/01/04 03:10
QC263056	Dieldrin	GC23	A	09/01/04 03:10
QC263056	Endrin	GC23	A	09/01/04 03:10
QC263056	4,4'-DDT	GC23	A	09/01/04 03:10

Reporting Summary for 174320 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC263056	TCMX	GC23	A	09/01/04 03:10
QC263056	Decachlorobiphenyl	GC23	A	09/01/04 03:10
QC263057	gamma-BHC	GC23	A	09/01/04 03:39
QC263057	Heptachlor	GC23	A	09/01/04 03:39
QC263057	Aldrin	GC23	A	09/01/04 03:39
QC263057	Dieldrin	GC23	A	09/01/04 03:39
QC263057	Endrin	GC23	A	09/01/04 03:39
QC263057	4,4'-DDT	GC23	A	09/01/04 03:39
QC263057	TCMX	GC23	A	09/01/04 03:39
QC263057	Decachlorobiphenyl	GC23	A	09/01/04 03:39
QC263058	gamma-BHC	GC23	A	09/01/04 04:09
QC263058	Heptachlor	GC23	A	09/01/04 04:09
QC263058	Aldrin	GC23	A	09/01/04 04:09
QC263058	Dieldrin	GC23	A	09/01/04 04:09
QC263058	Endrin	GC23	A	09/01/04 04:09
QC263058	4,4'-DDT	GC23	A	09/01/04 04:09
QC263058	TCMX	GC23	A	09/01/04 04:09
QC263058	Decachlorobiphenyl	GC23	A	09/01/04 04:09

Curtis & Tompkins Laboratories Sample Preparation Summary 31-AUG-2004 16:04

Batch Number : 94186
Date Extracted: 30-AUG-2004
Extracted by : Coral E. Weese
Prep Method : 3550

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1551D
Spike #3 ID :
SOP Version : 8081s_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173959-015			Treadwell & Rollo	Soil	29.68	g	20	0.673854	1	.02	0		8081	3620B	
173959-019			Treadwell & Rollo	Soil	29.84	g	20	0.670241	1	.02	0		8081	3620B	
173959-027			Treadwell & Rollo	Soil	29.72	g	20	0.672948	1	.02	0		8081	3620B	
173959-031			Treadwell & Rollo	Soil	30	g	20	0.666667	1	.02	0		8081	3620B	
173959-033			Treadwell & Rollo	Soil	30.44	g	20	0.657030	1	.02	0		8081	3620B	mss
174254-001			URS Corporation	Soil	29.6	g	20	0.675676	1	.02	0		8081	3620B	
174255-001			URS Corporation	Soil	29.87	g	20	0.669568	1	.02	0		8081	3620B	
174286-001			URS Corporation	Soil	30.23	g	20	0.661594	1	.05	0		8081	3620B	
174320-002			Treadwell & Rollo	Soil	29.78	g	20	0.671592	1	.02	0		8081	3620B	
174320-004			Treadwell & Rollo	Soil	29.97	g	20	0.667334	1	.02	0		8081	3620B	
174320-005			Treadwell & Rollo	Soil	29.92	g	20	0.668449	1	.02	0		8081	3620B	
174320-006			Treadwell & Rollo	Soil	30.46	g	20	0.656599	1	.02	0		8081	3620B	
QC263010	MB			Soil	29.85	g	20	0.670017	1	.02	0		8081	3620B	
QC263011	LCS			Soil	29.66	g	20	0.674309	1	.02	1		8081	3620B	
QC263012	MS	of 173959-033		Soil	30.08	g	20	0.664894	1	.02	1		8081	3620B	
QC263013	MSD	of 173959-033		Soil	29.87	g	20	0.669568	1	.02	1		8081	3620B	
QC263055	MS	of 174320-002		Soil	29.7	g	20	0.673401	1	.02	1		8081	3620B	174320-002
QC263056	MSD	of 174320-002		Soil	29.97	g	20	0.667334	1	.02	1		8081	3620B	174320-002
QC263057	MS	of 174320-006		Soil	29.72	g	20	0.672948	1	.02	1		8081	3620B	174320-006
QC263058	MSD	of 174320-006		Soil	29.94	g	20	0.668003	1	.02	1		8081	3620B	174320-006

↑ correct
CW 8/31

Prep Chemist: Coral Weese Reviewed By: JF/KAC JAM Date: 08/31/04

Relinquished By: Coral Weese Received By: CW Date: 8/31/04

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-AUG-2004 19:50**

Batch Number : 94186
Date Extracted: 30-AUG-2004
Extracted by : Coral E. Weese
Prep Method : 3550

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1551D
Spike #3 ID :
SOP Version : 8081s_rv9

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
173959-015			Treadwell & Rollo	Soil	29.68	g	10	0.336927	1		.02	0		8081	3620B	
173959-019			Treadwell & Rollo	Soil	29.84	g	10	0.335121	1		.02	0		8081	3620B	
173959-027			Treadwell & Rollo	Soil	29.72	g	10	0.336474	1		.02	0		8081	3620B	
173959-031			Treadwell & Rollo	Soil	30	g	10	0.333333	1		.02	0		8081	3620B	
173959-033			Treadwell & Rollo	Soil	30.44	g	10	0.328515	1		.02	0		8081	3620B	mss
174254-001			URS Corporation	Soil	29.6	g	10	0.337838	1		.02	0		8081	3620B	
174255-001			URS Corporation	Soil	29.87	g	10	0.334784	1		.02	0		8081	3620B	
174286-001			URS Corporation	Soil	30.23	g	10	0.330797	1		.05	0		8081	3620B	
174320-002			Treadwell & Rollo	Soil	29.78	g	10	0.335796	1		.02	0		8081	3620B	
174320-004			Treadwell & Rollo	Soil	29.97	g	10	0.333667	1		.02	0		8081	3620B	
174320-005			Treadwell & Rollo	Soil	29.92	g	10	0.334225	1		.02	0		8081	3620B	
174320-006			Treadwell & Rollo	Soil	30.46	g	10	0.328299	1		.02	0		8081	3620B	
QC263010	MB			Soil	29.85	g	10	0.335008	1		.02	0		8081	3620B	
QC263011	LCS			Soil	29.66	g	10	0.337154	1		.02	1		8081	3620B	
QC263012	MS	of 173959-033		Soil	30.08	g	10	0.332447	1		.02	1		8081	3620B	
QC263013	MSD	of 173959-033		Soil	29.87	g	10	0.334784	1		.02	1		8081	3620B	
QC263055	MS	of 174320-002		Soil	29.7	g	10	0.336700	1		.02	1		8081	3620B	174320-002
QC263056	MSD	of 174320-002		Soil	29.97	g	10	0.333667	1		.02	1		8081	3620B	174320-002
QC263057	MS	of 174320-006		Soil	29.72	g	10	0.336474	1		.02	1		8081	3620B	174320-006
QC263058	MSD	of 174320-006		Soil	29.94	g	10	0.334001	1		.02	1		8081	3620B	174320-006

wrong final volume
changed in class
CW 8/31

Prep Chemist: Coral Weese Reviewed By: Jennie Mee Date: 8/31

Relinquished By: Coral Weese Received By: CW Date: 8/31

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 94186
LIMS Analysis: 8081
Extracted by: CW
Date Extracted: 8/30/04

Extraction Method:
☑ EPA 3550b Sonication
☐ EPA 3545 PFE (Mth#_____)
☐ EPA 3540c Soxhlet
☐ _____

Cleanup Method:
☐ EPA 3640a GPC
☑ EPA 3620b Florisil
☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
174254-001	29.60	20.0	✓	
174255-001	29.87			
174286-001	30.23			*
173959-015	29.68			
~~-016~~ CW 8/30/04				
-019	29.84			
-027	29.72			
-031	30.00			
-033	30.44			MPS
MB QC263010	29.85			
LCS 11	29.616			
MS 12	30.08			
MSD 13	29.87			
174320-002	29.78	20.0	✓	
-004	29.97			
-005	29.92			
-006	30.46			
MS QC263051-5	29.70			174320-002
MSD 6	29.97			
MS 7	29.72			174320-006
MSD 8	29.94			

CW 8/30/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	BM433104LD	CW 8/30/04
dried with CH_2Cl_2-rinsed ☑ ~~granular~~ powder Na_2SO_4 ☐ diatomaceous earth	JTBA17HSD	
*0.05/0.02 mL of surrogate solution was added to all samples	04WS1343A	
1.0 mL of spike solution was added to all spikes	04WS1551D	
1:1 CH_2Cl_2 (lot# BM44156):Acetone(lot# BM44085) was added to all	✓	
☑ sonicated 3 times w/ ≥100mL ☐ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	N/A	
Soxhlets on at:		
Soxhlets off at:	✓	
Extracts filtered through baked, CH_2Cl_2 rinsed powdered Na_2SO_4	JTBA17HSD	
Exchanged 2x with Hexane	JTBY53E416	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	

Carol Weed 8/30/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jessie Miller 8/31
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: JRD

Cleanup Date: 8/31/04

Benchbook # **BK 1991**

Page 2

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
~~174524-001~~	~~CW 8/31/04~~			
174254-001	94186	1.0	1.0	
174255-001				
174286-001				
173959-015				
-019				
-027				
-031				
-033				MSS
MBQC263010				
LCS 1				
MS 2				173959-033
MSD 3				
174320-002				MSS
-004				
-005				
-006				MSS
MS QC263055				174320-002
MSD 6				
MS 7				174320-006
MSD 8				

CW

8/31/04

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using Florisil cartridges	Respre 204120AQ	JRD 8/31/04
Florisil cartridges/ columns rinsed 3x with Hexane	JTBY53E46	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane		
Acetone	EM44085	
Concentrated to volumes as noted above	✓	

Jennifer Allen 8/31/04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

Cora Moore 8/31/04

Reviewed by / Date

SAMPLE ID	WEIGHT(g)	ANALYSIS	COMMENTS
173959-015A	29.68	8081	
-019	29.84		
-027	29.72		
-031	30.00		
-033	30.44		MSS
174254-001D	29.60		
174255-001	29.87		Comp A-D
174286-001	30.23		Comp A-D
MB	29.85		EM433104.10
LCS	29.66		
MS	30.08		173959-033A
MSD	29.87		
174286-001	15.02	PCB	Comp A-D
174301-001A	14.98		MSS
MB	15.03		EM433104.10
LCS	15.23		
MS	15.04		174301-001A
MSD	15.01		
174255-001	49.94	TEHM	Comp A-D
174304-001A	49.77		MSS
-002	50.22		
-006	50.01		
-007	49.74		
MB	49.92		EM433104.10
LCS	49.76		
MS	50.08		174304-001A
MSD	50.01		

JRD
8/30/04

Continued on Page

Read and Understood By

Jennifer Dell 8/30/04

Signed Date Signed Date

PROJECT Soil Aliquot

Notebook No. BK1979

Continued From Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	COMMENTS
174320-002A	15.11	PCB	JRD 8/30/04 ~~174320-002~~ MSS
-004	14.84		
-005	14.90		
-006	14.59		MSS
MS	14.95		174320-002A
MSD	14.99		↓
MS	15.33		174320-006A
MSD	14.90	↓	↓
174320-002A	29.78	8081	MSS
-004	29.97		
-005	29.92		
-006	30.46		MSS
MS	29.70		174320-002A
MSD	29.97		↓
MS	29.72		174320-006A
MSD	29.94	↓	↓
174320-003A	30.03	8270	

JRD 8/30/04

Continued on Page

Read and Understood By

Jennifer Dool — Signed

8/30/04 — Date

Signed

Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3550

Analyte	Units	GC14 A	GC14 B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/16/04 0.95	04/16/04 0.78	08/25/03 0.96	08/25/03 0.67	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/16/04 1.3	04/16/04 1.1	08/25/03 1.3	08/25/03 0.72	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/16/04 0.93	04/16/04 0.94	08/25/03 0.92	08/25/03 0.70	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/16/04 2.0	04/16/04 2.0	08/25/03 0.77	08/25/03 0.60	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/16/04 2.2	04/16/04 2.0	08/25/03 1.1	08/25/03 0.69	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/16/04 2.7	04/16/04 2.2	08/25/03 0.98	08/25/03 0.73	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/16/04 0.87	04/16/04 0.77	08/25/03 0.87	08/25/03 0.71	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/16/04 0.68	04/16/04 0.90	08/25/03 1.3	08/25/03 0.78	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/16/04 1.0	04/16/04 0.93	08/25/03 0.75	08/25/03 0.66	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/16/04 1.1	04/16/04 1.1	08/25/03 0.90	08/25/03 0.67	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/16/04 0.97	04/16/04 1.0	08/25/03 0.87	08/25/03 0.62	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/16/04 0.99	04/16/04 1.0	08/25/03 0.84	08/25/03 0.63	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/16/04 1.0	04/16/04 1.0	08/25/03 0.60	08/25/03 0.64	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/16/04 2.0	04/16/04 2.0	08/25/03 1.2	08/25/03 0.60	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/16/04 1.9	04/16/04 1.7	08/25/03 0.80	08/25/03 0.66	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/16/04 1.8	04/16/04 1.8	08/25/03 0.71	08/25/03 0.67	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/16/04 1.9	04/16/04 1.8	08/25/03 0.69	08/25/03 0.70	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/16/04 1.9	04/16/04 1.8	08/25/03 1.2	08/25/03 0.91	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/16/04 1.9	04/16/04 1.7	08/25/03 0.68	08/25/03 0.59	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/16/04 11	04/16/04 10	08/25/03 0.93	08/25/03 0.73	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	174320-002	Cident	: BB3EX118[0.5]
Seqnum	: 804352004023	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 244_023	Batchnum	: 94186	Injected	: 31-AUG-2004 23:44
IDF	: 1.0			Units	: ug/Kg

Prep: 29.78 g --> 20.0 ml = 0.6716 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B-244_006	Flags
alpha-BHC	A	804335061001	ND						1.7		
beta-BHC	A	804335061001	ND						1.7		
gamma-BHC	A	804335061001	ND						1.7		
delta-BHC	A	804335061001	ND						1.7		
Heptachlor	A	804335061001	ND						1.7		
Aldrin	A	804335061001	ND						1.7		
Heptachlor epoxide	A	804335061001	ND						1.7		
Endosulfan I	A	804335061001	ND						1.7		
Dieldrin	A	804335061001	ND						3.3		
4,4'-DDE	B	804335061001	ND						3.3		
Endrin	A	804335061001	ND						3.3		
Endosulfan II	A	804335061001	ND						3.3		
Endosulfan sulfate	A	804335061001	ND						3.3		rsd
4,4'-DDD	B	804335061001	ND						3.3		
Endrin ketone	A	804335061001	ND						3.3		
4,4'-DDT	A	804335061001	ND						3.3		
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	A	804335061001	ND						1.7		
gamma-Chlordane	A	804335061001	ND						1.7		
Methoxychlor	A	804335061001	ND						17		v+
Toxaphene	A		ND						60		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804335061001	13.43	12.01	89	65-135	
Decachlorobiphenyl	A	804335061001	13.43	9.728	72	65-135	

+=high bias rsd=ICAL %RSD failure v=ICV

Analyst: GW Date: 9/1/04 Reviewer: mcs Date: 9/1/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-002,94186,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 9/1/04 1:32:33 PM
Data Acquisition Time : 8/31/04 11:44:02 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a023p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.319	200408.93	17.8848	0.672	1	12.01
alpha-BHC	9.972	0.00	0.0000	0.672	1	0.00
gamma-BHC	10.872	0.00	0.0000	0.672	1	0.00
beta-BHC	11.132	0.00	0.0000	0.672	1	0.00
delta-BHC	11.621	0.00	0.0000	0.672	1	0.00
Heptachlor	12.178	2986.30	0.2132	0.672	1	0.14
Aldrin	12.996	0.00	0.0000	0.672	1	0.00
Heptachlor epoxide	14.637	968.34	0.0737	0.672	1	0.05
gamma-Chlordane	14.916	0.00	0.0000	0.672	1	0.00
alpha-Chlordane	15.223	394.68	0.0310	0.672	1	0.02
4,4'-DDE	15.463	3534.90	0.2898	0.672	1	0.19
Endosulfan I	15.646	2455.73	0.2032	0.672	1	0.14
Dieldrin	16.215	0.00	0.0000	0.672	1	0.00
Endrin	16.787	1598.03	0.1514	0.672	1	0.10
4,4'-DDD	16.956	0.00	0.0000	0.672	1	0.00
Endosulfan II	17.350	392.07	0.0355	0.672	1	0.02
4,4'-DDT	17.631	253.02	0.0254	0.672	1	0.02
Endrin aldehyde	18.415	0.00	0.0000	0.672	1	0.00
Methoxychlor	18.832	2296.05	0.5574	0.672	1	0.37
Endosulfan sulfate	19.495	764.24	0.0766	0.672	1	0.05
Endrin ketone	20.210	3723.00	0.3272	0.672	1	0.22
Decachlorobiphenyl	22.019	99380.57	14.4854	0.672	1	9.73
		319155.88	34.3548			23.07

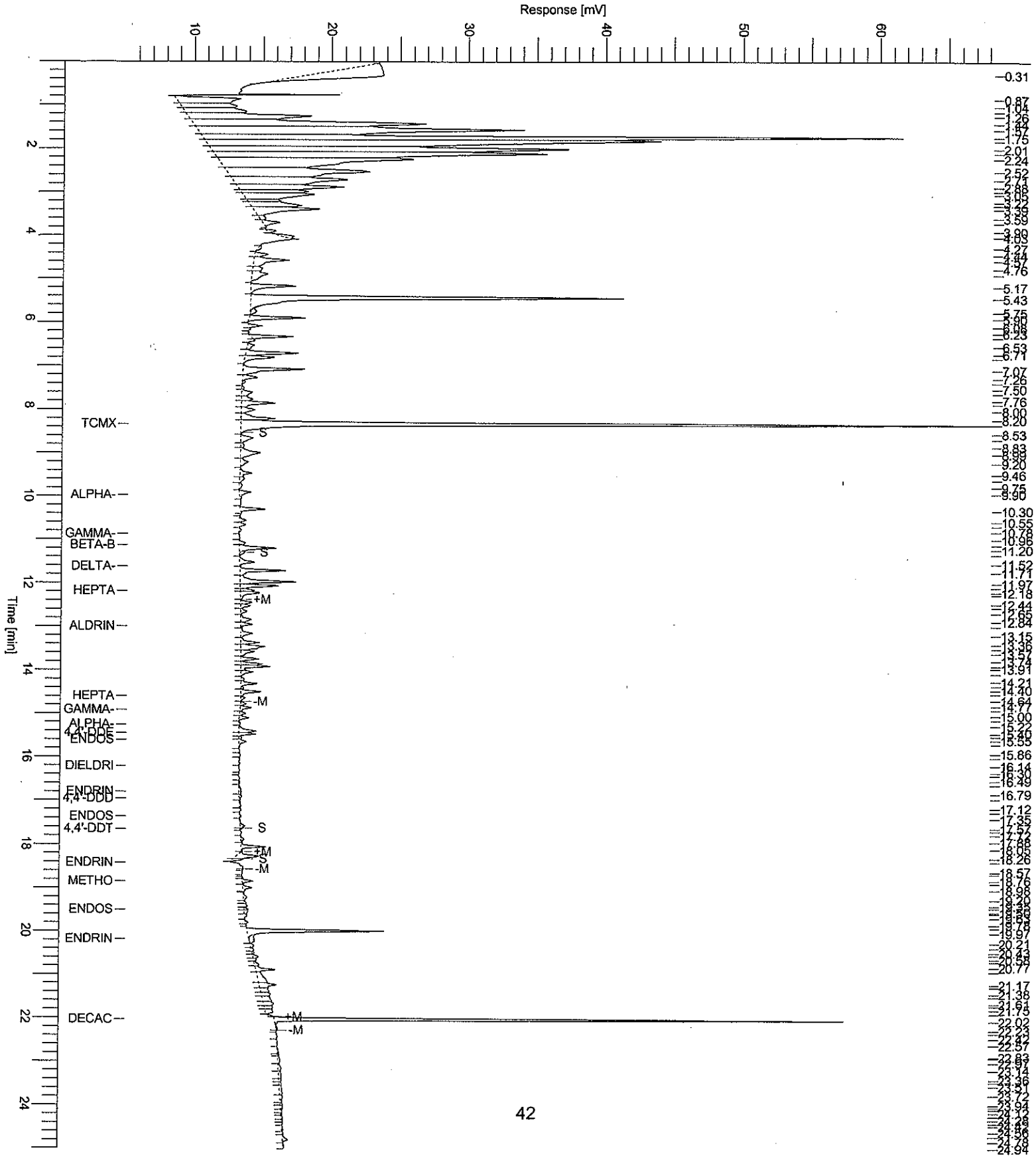
GP
9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a023p.TX0

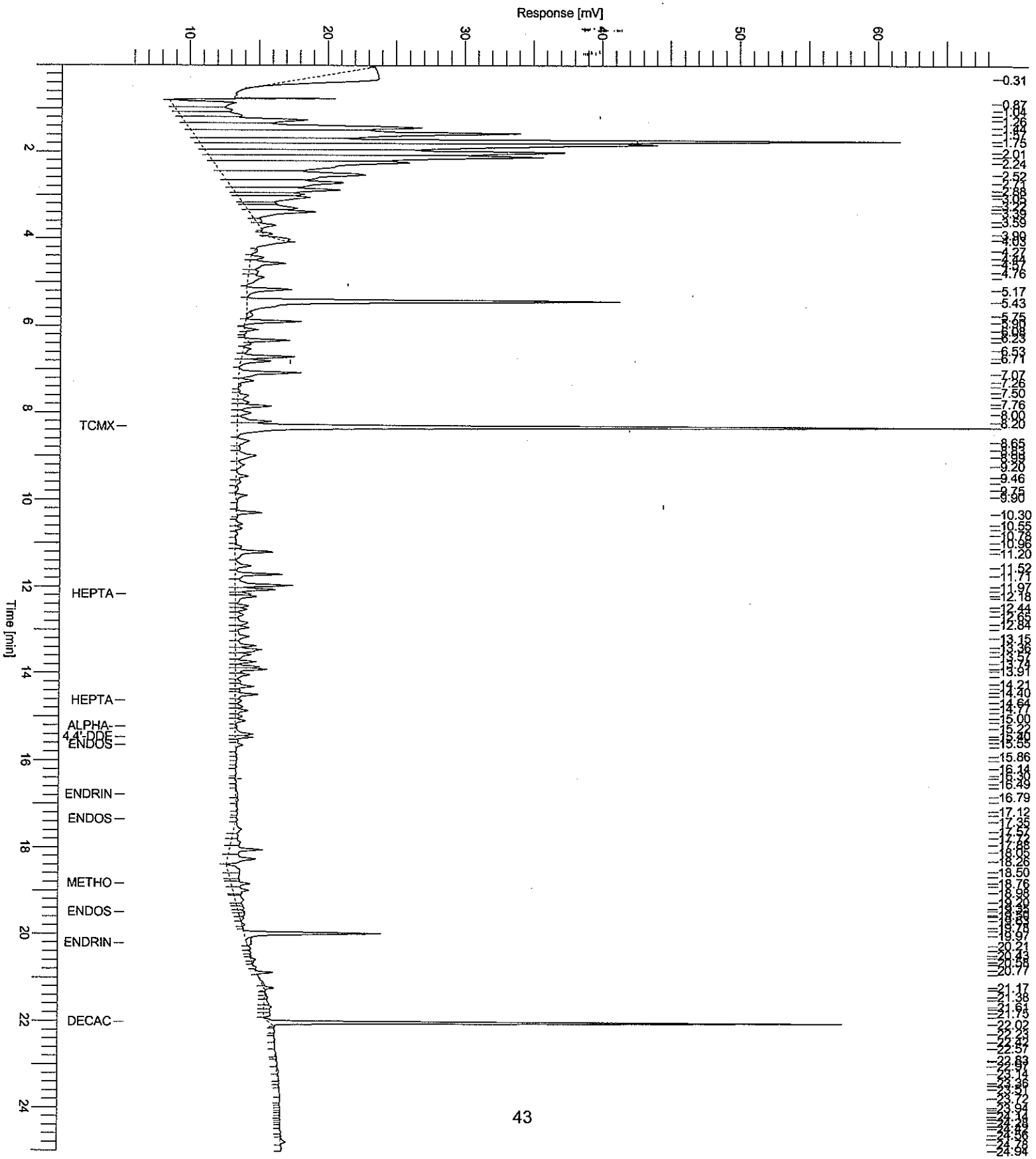
GC23 Rtx-CLPesticides

Sample Name : 174320-002,94186,mss Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a023.raw
Date : 9/1/04 1:32:40 PM
Method : Time of Injection: 8/31/04 11:44:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.34 mV High Point : 68.30 mV
Plot Offset: 5.34 mV Plot Scale: 63.0 mV



GC23 Rtx-CLPesticides

Sample Name : 174320-002,94186,mss Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a023.raw
Date : 9/1/04 10:32:50 AM
Method : gc23ins Time of Injection: 8/31/04 11:44:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.50 mV High Point : 68.30 mV
Scale Factor: 1.0 Plot Offset: 5.50 mV Plot Scale: 62.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-002,94186,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 9/1/04 1:30:43 PM
Data Acquisition Time : 8/31/04 11:44:02 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b023p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

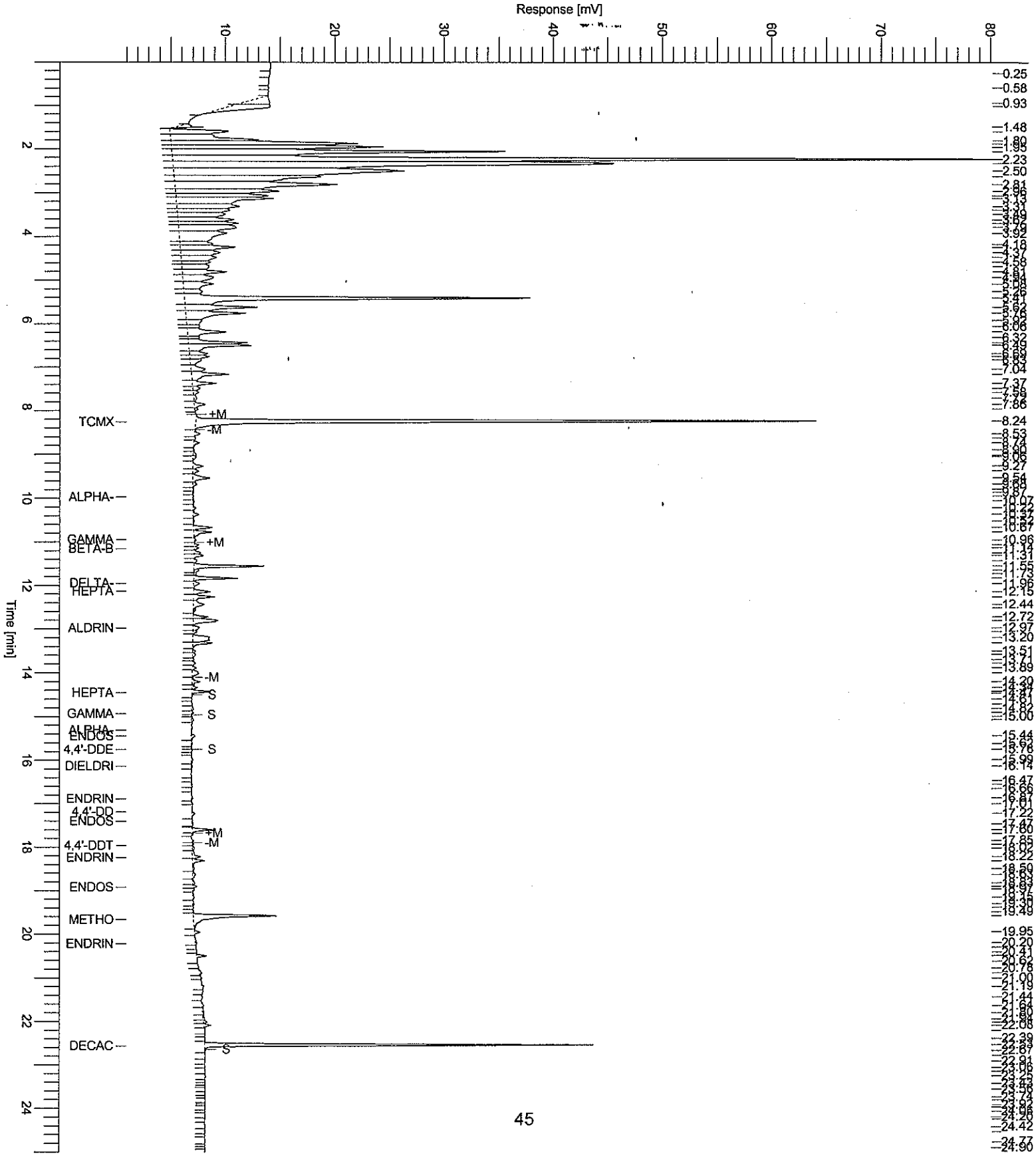
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.240	200180.64	16.5428	0.672	1	11.11
alpha-BHC	9.952	252.50	0.0136	0.672	1	0.01
gamma-BHC	10.957	569.23	0.0338	0.672	1	0.02
beta-BHC	11.136	1177.05	0.1561	0.672	1	0.10
delta-BHC	11.957	2199.92	0.1244	0.672	1	0.08
Heptachlor	12.145	5589.16	0.4830	0.672	1	0.32
Aldrin	12.974	2763.26	0.1774	0.672	1	0.12
Heptachlor epoxide	14.467	143.00	0.0100	0.672	1	0.01
gamma-Chlordane	14.911	511.56	0.0352	0.672	1	0.02
alpha-Chlordane	15.309	0.00	0.0000	0.672	1	0.00
Endosulfan I	15.438	1709.65	0.1300	0.672	1	0.09
4,4'-DDE	15.756	170.74	0.0128	0.672	1	0.01
Dieldrin	16.135	338.07	0.0244	0.672	1	0.02
Endrin	16.868	517.56	0.0498	0.672	1	0.03
4,4'-DDD	17.221	1603.93	0.1517	0.672	1	0.10
Endosulfan II	17.405	0.00	0.0000	0.672	1	0.00
4,4'-DDT	17.934	251.65	0.0262	0.672	1	0.02
Endrin aldehyde	18.219	2985.34	0.3025	0.672	1	0.20
Endosulfan sulfate	18.900	1070.13	0.0970	0.672	1	0.07
Methoxychlor	19.670	0.00	0.0000	0.672	1	0.00
Endrin ketone	20.200	774.72	0.0669	0.672	1	0.04
Decachlorobiphenyl	22.535	88796.23	13.8112	0.672	1	9.28
		311604.33	32.2486			21.66

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\244b023p.TX0

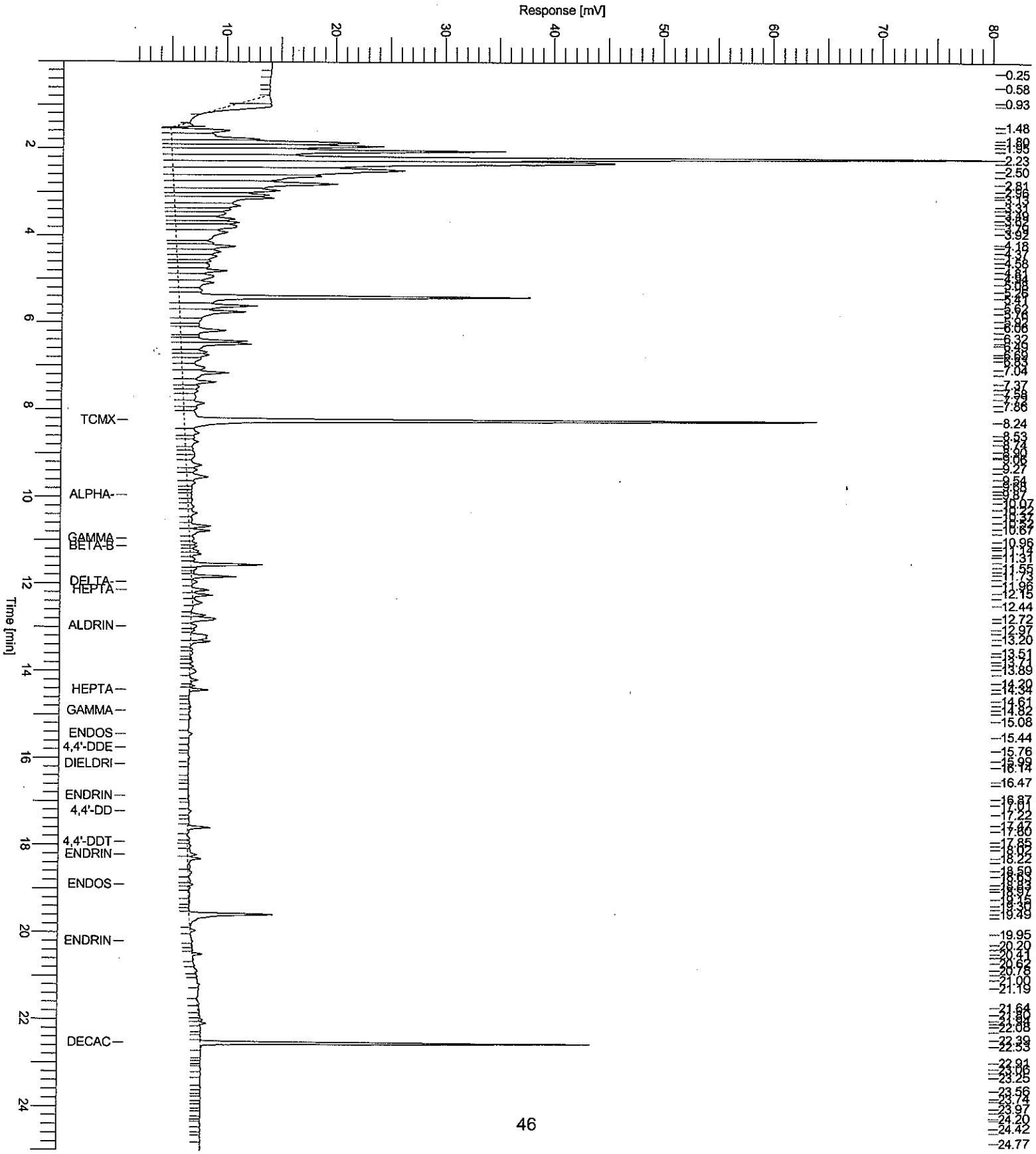
GC23 Rtx-CLPesticides2

Sample Name : 174320-002,94186,mss Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHb\244b023.raw
Date : 9/1/04 1:30:48 PM
Method : Time of Injection: 8/31/04 11:44:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.94 mV High Point : 80.20 mV
Plot Offset: 0.94 mV Plot Scale: 79.3 mV



GC23 Rtx-CLPesticides2

Sample Name : 174320-002,94186,mss Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHb\244b023
Date : 9/1/04 10:33:45 AM
Method : gc23ins Time of Injection: 8/31/04 11:44:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.14 mV High Point : 80.20 mV
Scale Factor: 1.0 Plot Offset: 1.14 mV Plot Scale: 79.1 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	174320-004	Cident	: BB3EX120[0.5]
Seqnum	: 804352004024	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 244_024	Batchnum	: 94186	Injected	: 01-SEP-2004 00:13
IDF	: 1.0			Units	: ug/Kg

Prep: 29.97 g --> 20.0 ml = 0.6673 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=244_006	Flags
alpha-BHC	A	804335061001	ND					1.7		
beta-BHC	A	804335061001	ND					1.7		
gamma-BHC	A	804335061001	ND					1.7		
delta-BHC.....	A	804335061001	7.0		ND			1.7		C x
Heptachlor.....	A	804335061001	2.2		1.9	15%	0.078	1.7		x
Aldrin	A	804335061001	ND					1.7		
Heptachlor epoxide	A	804335061001	ND					1.7		
Endosulfan I	A	804335061001	ND					1.7		
Dieldrin	A	804335061001	ND					3.3		
4,4'-DDE	B	804335061001	ND					3.3		
Endrin	A	804335061001	ND					3.3		
Endosulfan II	A	804335061001	ND					3.3		
Endosulfan sulfate	A	804335061001	ND					3.3		rsd
4,4'-DDD.....	B	804335061001	5.6		5.2 ↑	8%	—	3.3		
Endrin ketone	A	804335061001	ND					3.3		
4,4'-DDT.....	B	804335061001	10		9.1	14%	—	3.3		<c- b*
Chlordane (Technical)	A		ND					30		
alpha-Chlordane	A	804335061001	ND					1.7		
gamma-Chlordane.....	B	804335061001	1.1 J		0.77 J	33%		1.7		
Methoxychlor	A	804335061001	ND					17		v+
Toxaphene	A		ND					60		

RPDs ok

AVG. ok

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804335061001	13.35	12.79	96	65-135	
Decachlorobiphenyl	A	804335061001	13.35	11.61	87	65-135	

+=high bias -=low bias <=opening C=RPD between columns exceeds 40% b=noncompliant c=CCV rsd=ICAL %RSD failure v=ICV x=false positive

Analyst: _____ Date: 9/1/04 Reviewer: _____ Date: 9/1/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-004,94186
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 24

Date : 9/1/04 1:35:48 PM
Data Acquisition Time : 9/1/04 12:13:35 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a024p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.318	214828.73	19.1717	0.667	1	12.79
alpha-BHC	10.007	2889.49	0.1656	0.667	1	0.11
gamma-BHC	10.866	35999.83	2.2894	0.667	1	1.53
beta-BHC	11.110	315.94	0.0467	0.667	1	0.03
delta-BHC	11.605	171593.12	10.4275	0.667	1	6.96
Heptachlor	12.164	46964.17	3.3522	0.667	1	2.24
Aldrin	12.985	3986.63	0.2789	0.667	1	0.19
Heptachlor epoxide	14.591	5259.50	0.4006	0.667	1	0.27
gamma-Chlordane	14.897	15521.24	1.1588	0.667	1	0.77
alpha-Chlordane	15.292	10330.93	0.8125	0.667	1	0.54
4,4'-DDE	15.426	37699.85	3.0905	0.667	1	2.06
Endosulfan I	15.652	2742.98	0.2270	0.667	1	0.15
Dieldrin	16.195	31713.11	2.4822	0.667	1	1.66
Endrin	16.783	2710.74	0.2568	0.667	1	0.17
4,4'-DDD	16.936	75744.96	7.7704	0.667	1	5.19
Endosulfan II	17.366	0.00	0.0000	0.667	1	0.00
4,4'-DDT	17.631	135040.18	13.5772	0.667	1	9.06
Endrin aldehyde	18.415	0.00	0.0000	0.667	1	0.00
Methoxychlor	18.822	31754.68	7.7087	0.667	1	5.14
Endosulfan sulfate	19.500	0.00	0.0000	0.667	1	0.00
Endrin ketone	20.177	0.00	0.0000	0.667	1	0.00
Decachlorobiphenyl	22.018	119396.52	17.4029	0.667	1	11.61
		944492.60	90.6194			60.47

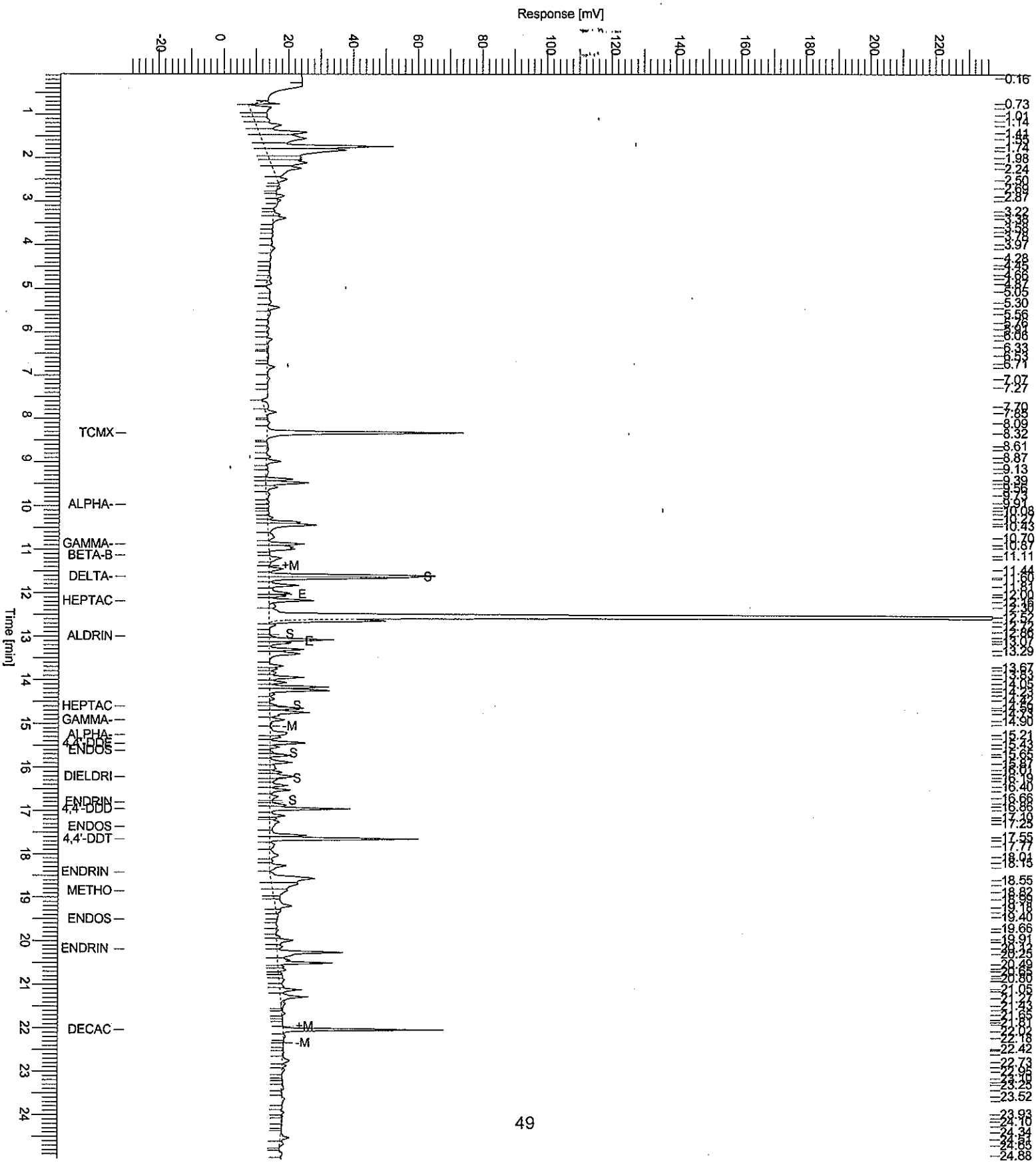
GL
9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a024p.TX0

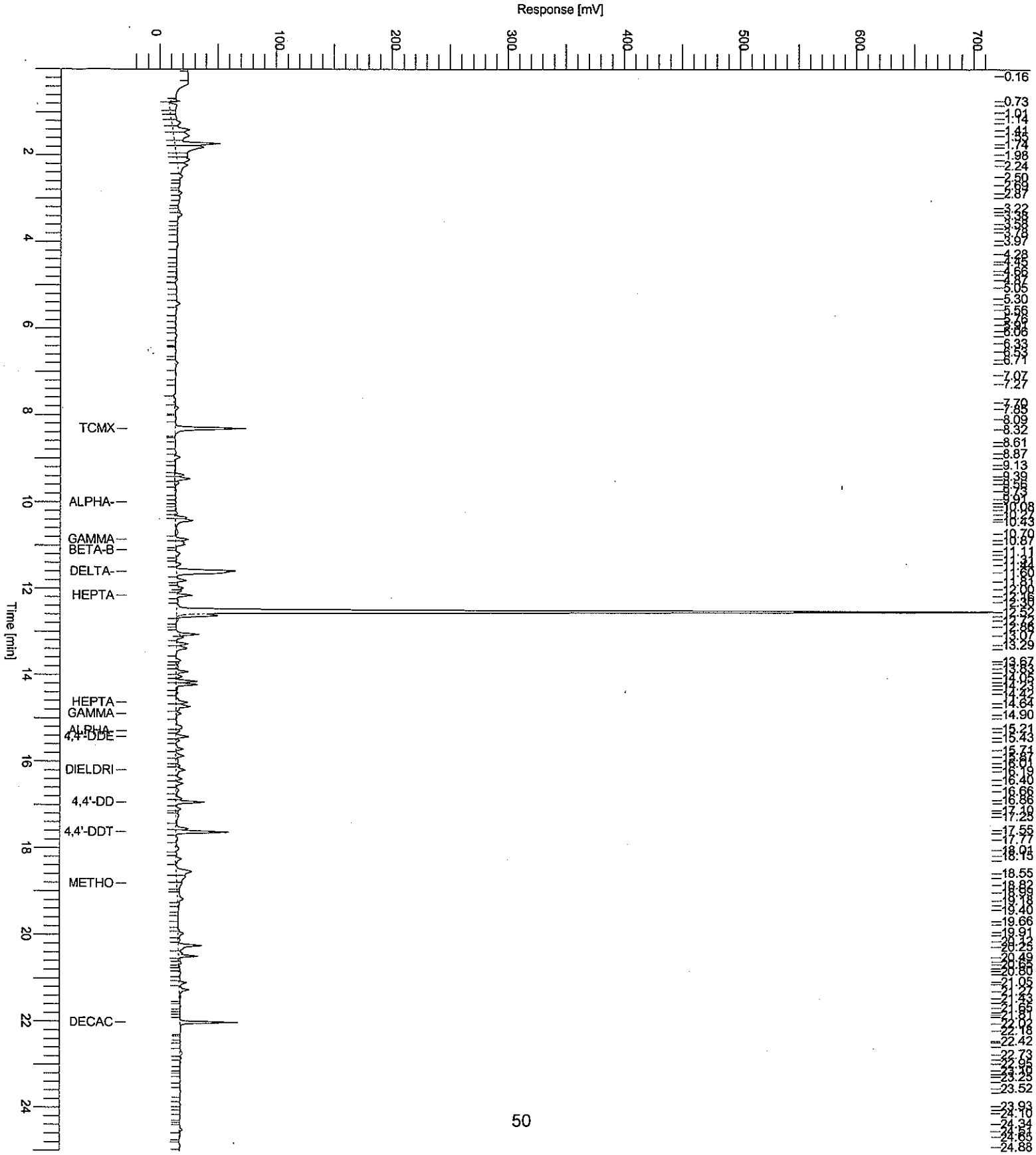
GC23 Rtx-CLPesticides

Sample Name : 174320-004,94186 Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a024.raw
Date : 9/1/04 1:36:04 PM
Method :
Time of Injection: 9/1/04 12:13:35 AM
Start Time : 0.07 min End Time : 25.00 min Low Point : -29.84 mV High Point : 237.97 mV
Plot Offset: -29.84 mV Plot Scale: 267.8 mV



GC23 Rtx-CLPesticides

Sample Name : 174320-004,94186 Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a024.raw
Date : 9/1/04 10:32:56 AM
Method : gc23ins Time of Injection: 9/1/04 12:13:35 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -27.97 mV High Point : 718.03 mV
Scale Factor: 1.0 Plot Offset: -27.97 mV Plot Scale: 746.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-004,94186
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 24

Date : 9/1/04 1:37:43 PM
Data Acquisition Time : 9/1/04 12:13:35 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b024p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.235	247730.31	20.4722	0.667	1	13.66
alpha-BHC	9.987	1047.40	0.0563	0.667	1	0.04
gamma-BHC	10.919	30360.29	1.8014	0.667	1	1.20
beta-BHC	11.186	41391.10	5.4902	0.667	1	3.66
delta-BHC	11.950	0.00	0.0000	0.667	1	0.00
Heptachlor	12.184	33361.04	2.8827	0.667	1	1.92
Aldrin	12.982	0.00	0.0000	0.667	1	0.00
Heptachlor epoxide	14.444	67554.97	4.7229	0.667	1	3.15
gamma-Chlordane	14.894	23507.00	1.6154	0.667	1	1.08
alpha-Chlordane	15.338	2694.37	0.1929	0.667	1	0.13
Endosulfan I	15.464	3220.36	0.2449	0.667	1	0.16
4,4'-DDE	15.766	12623.34	0.9458	0.667	1	0.63
Dieldrin	16.100	24372.94	1.7620	0.667	1	1.18
Endrin	16.884	5520.74	0.5309	0.667	1	0.35
4,4'-DDD	17.152	88821.25	8.3980	0.667	1	5.60
Endosulfan II	17.418	3689.80	0.3103	0.667	1	0.21
4,4'-DDT	17.931	149946.76	15.6017	0.667	1	10.41
Endrin aldehyde	18.243	0.00	0.0000	0.667	1	0.00
Endosulfan sulfate	18.886	3009.65	0.2729	0.667	1	0.18
Methoxychlor	19.650	42666.02	10.8661	0.667	1	7.25
Endrin ketone	20.219	4764.12	0.4113	0.667	1	0.27
Decachlorobiphenyl	22.534	107670.15	16.7468	0.667	1	11.18
		893951.59	93.3248			62.28

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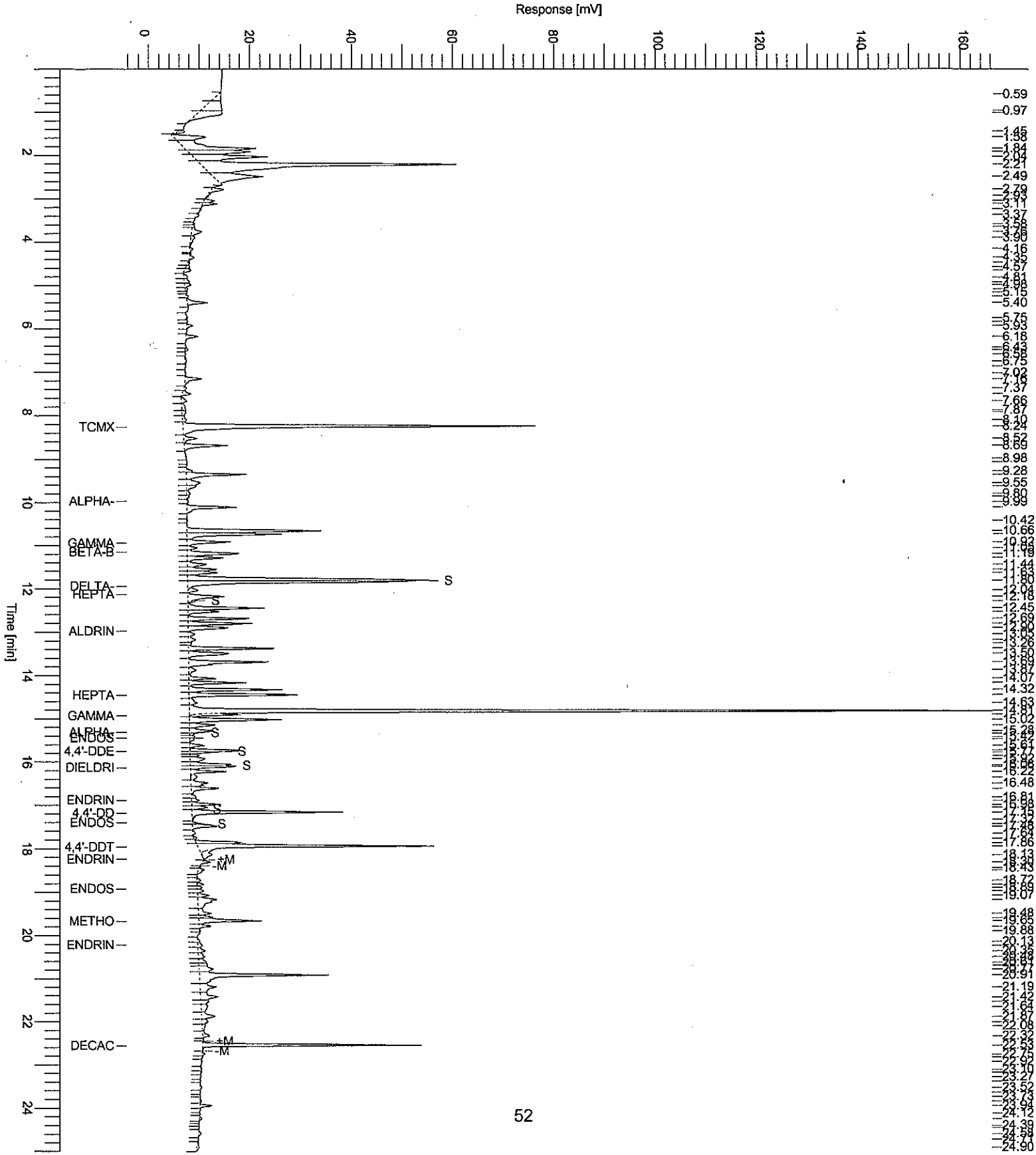
Report stored in ASCII file: G:\gc23\CHB\244b024p.TX0

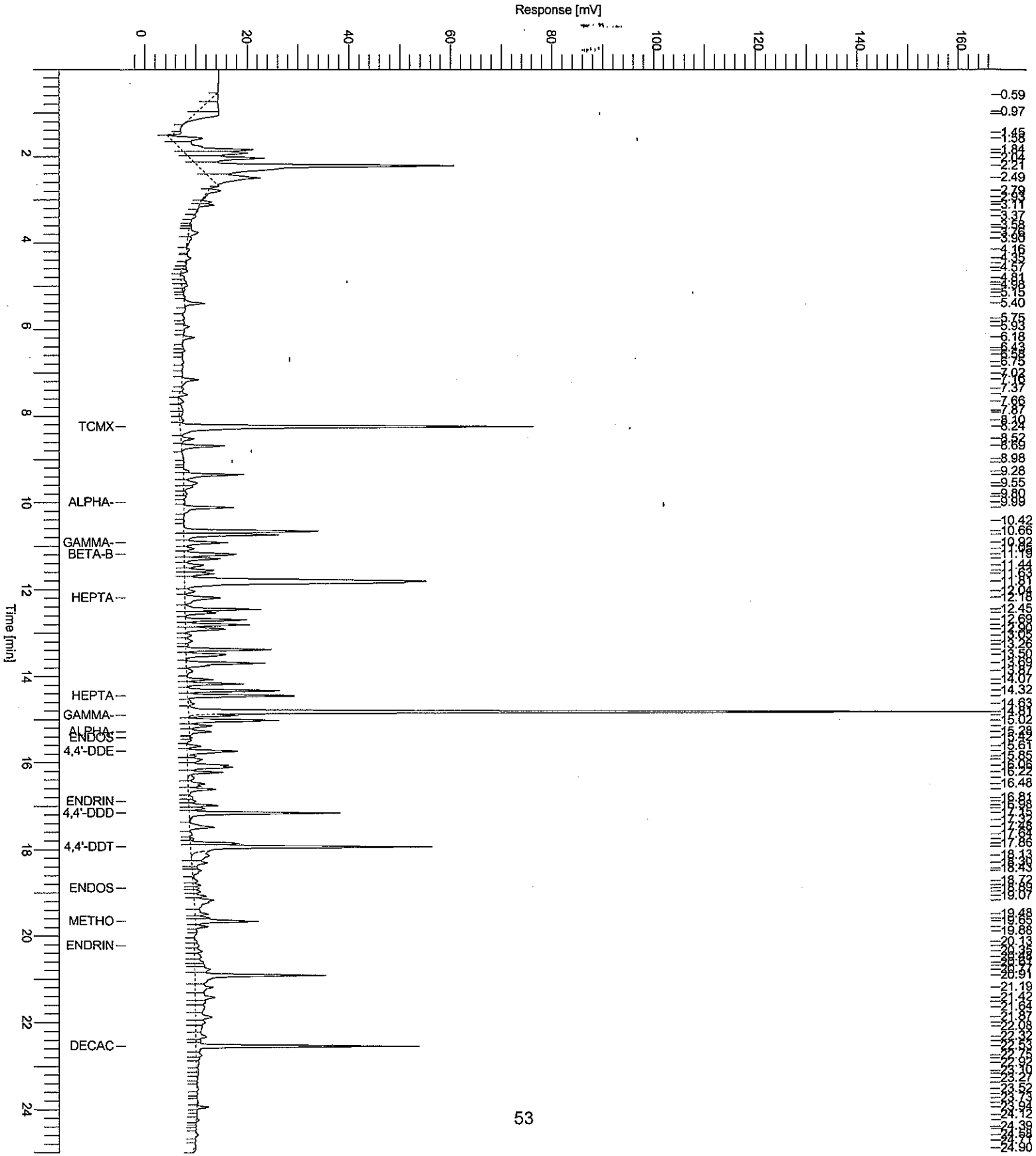
GC23 Rtx-CLPesticides2

Sample Name : 174320-004,94186 Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHb\244b024.raw
Date : 9/1/04 1:37:48 PM
Method :
Time of Injection: 9/1/04 12:13:35 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -4.30 mV High Point : 166.46 mV
Plot Offset: -4.30 mV Plot Scale: 170.8 mV



GC23 Rtx-CLPesticides2

Sample Name : 174320-004,94186 Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHb\244b024
Date : 9/1/04 10:33:51 AM
Method : gc23ins Time of Injection: 9/1/04 12:13:35 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -3.88 mV High Point : 166.46 mV
Scale Factor: 1.0 Plot Offset: -3.88 mV Plot Scale: 170.3 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	174320-005	Cident	: DUP083004A
Seqnum	: 804352004025	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 244_025	Batchnum	: 94186	Injected	: 01-SEP-2004 00:43
IDF	: 1.0			Units	: ug/Kg

Prep: 29.92 g --> 20.0 ml = 0.6684 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=244_006	Flags
alpha-BHC	A	804335061001	ND						1.7		
beta-BHC	A	804335061001	ND						1.7		
gamma-BHC	A	804335061001	ND						1.7		
delta-BHC	A	804335061001	ND						1.7		
Heptachlor	A	804335061001	ND						1.7		
Aldrin	A	804335061001	ND						1.7		
Heptachlor epoxide	A	804335061001	ND						1.7		
Endosulfan I	A	804335061001	ND						1.7		
Dieldrin	A	804335061001	ND						3.3		
4,4'-DDE	B	804335061001	ND						3.3		
Endrin	A	804335061001	ND						3.3		
Endosulfan II	A	804335061001	ND						3.3		
Endosulfan sulfate	A	804335061001	ND						3.3		rsd
4,4'-DDD	B	804335061001	ND						3.3		
Endrin ketone	A	804335061001	ND						3.3		
4,4'-DDT.....	B	804335061001	4.7 ↓			4.4			3.3		<c- b*
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	A	804335061001	ND						1.7		
gamma-Chlordane.....	A	804335061001	0.73 J			ND			1.7		C x
Methoxychlor	A	804335061001	ND						17		v+
Toxaphene	A		ND						60		

ok to rpt. since AVG ok - per TKM mmg 9/1/04

-5% RPD ok mmg 9/9/04

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804335061001	13.37	12.95	97	65-135	
Decachlorobiphenyl	A	804335061001	13.37	11.70	88	65-135	

+=high bias -=low bias <=opening C=RPD between columns exceeds 40% b=noncompliant c=CCV rsd=ICAL %RSD failure v=ICV x=false positive

Analyst: GL Date: 9/1/04 Reviewer: mgw Date: 9/1/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-005,94186
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 25

Date : 9/1/04 1:43:33 PM
Data Acquisition Time : 9/1/04 12:43:06 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a025p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.321	217104.72	19.3748	0.668	1	12.95
alpha-BHC	9.972	0.00	0.0000	0.668	1	0.00
gamma-BHC	10.872	26294.45	1.6722	0.668	1	1.12
beta-BHC	11.132	0.00	0.0000	0.668	1	0.00
delta-BHC	11.598	38652.19	2.3488	0.668	1	1.57
Heptachlor	12.168	31775.60	2.2681	0.668	1	1.52
Aldrin	12.996	0.00	0.0000	0.668	1	0.00
Heptachlor epoxide	14.583	4491.38	0.3421	0.668	1	0.23
gamma-Chlordane	14.900	14548.52	1.0861	0.668	1	0.73
alpha-Chlordane	15.223	11502.31	0.9046	0.668	1	0.60
4,4'-DDE	15.431	30858.20	2.5296	0.668	1	1.69
Endosulfan I	15.653	5437.94	0.4500	0.668	1	0.30
Dieldrin	16.197	23191.34	1.8152	0.668	1	1.21
Endrin	16.799	0.00	0.0000	0.668	1	0.00
4,4'-DDD	16.945	45642.85	4.6823	0.668	1	3.13
Endosulfan II	17.366	0.00	0.0000	0.668	1	0.00
4,4'-DDT	17.635	65772.78	6.6129	0.668	1	4.42
Endrin aldehyde	18.457	2736.53	0.2932	0.668	1	0.20
Methoxychlor	18.837	4013.73	0.9744	0.668	1	0.65
Endosulfan sulfate	19.505	674.00	0.0676	0.668	1	0.05
Endrin ketone	20.177	0.00	0.0000	0.668	1	0.00
Decachlorobiphenyl	22.020	120135.33	17.5106	0.668	1	11.70
		642831.88	62.9325			42.07

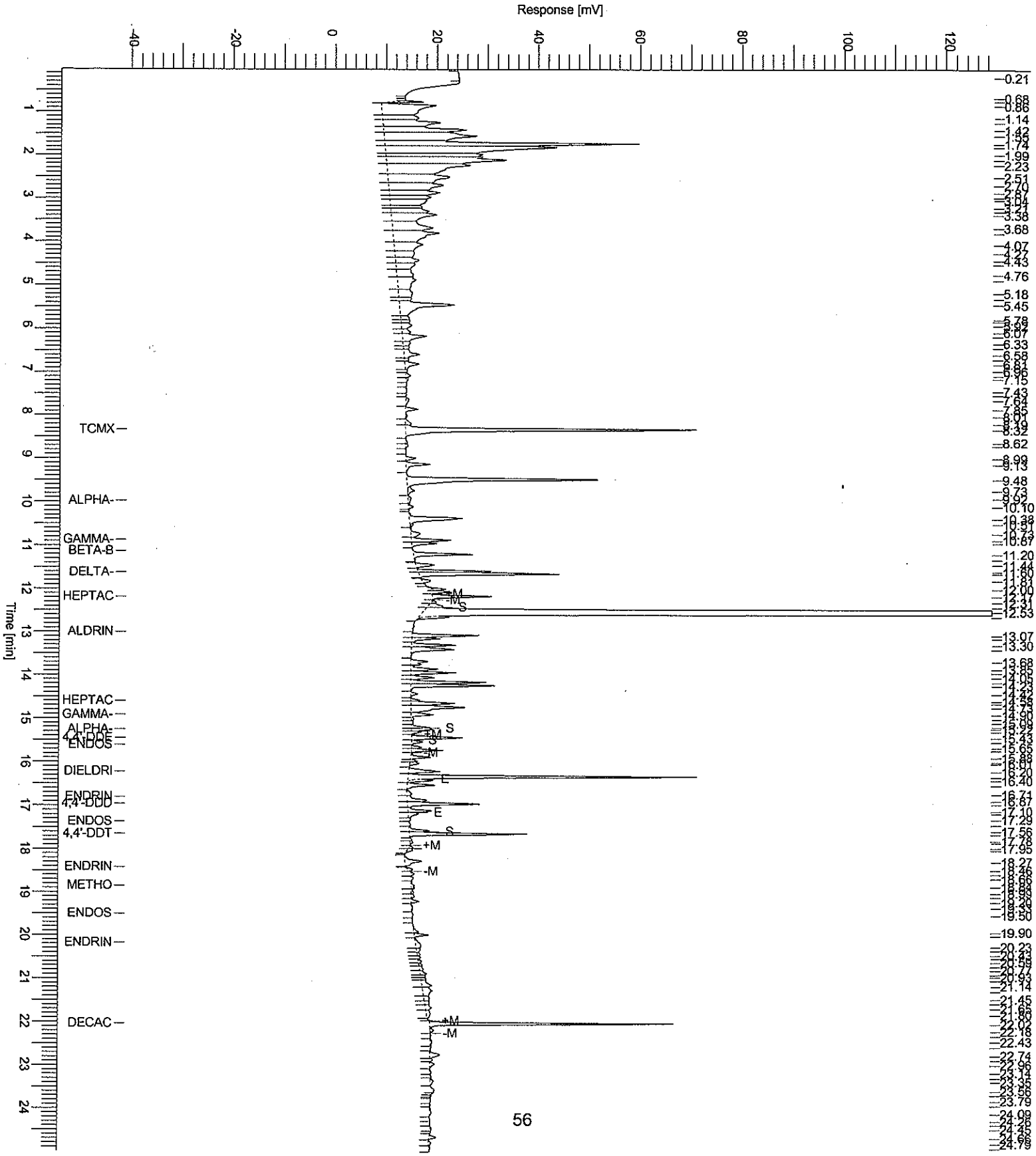
af
9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a025p.TX0

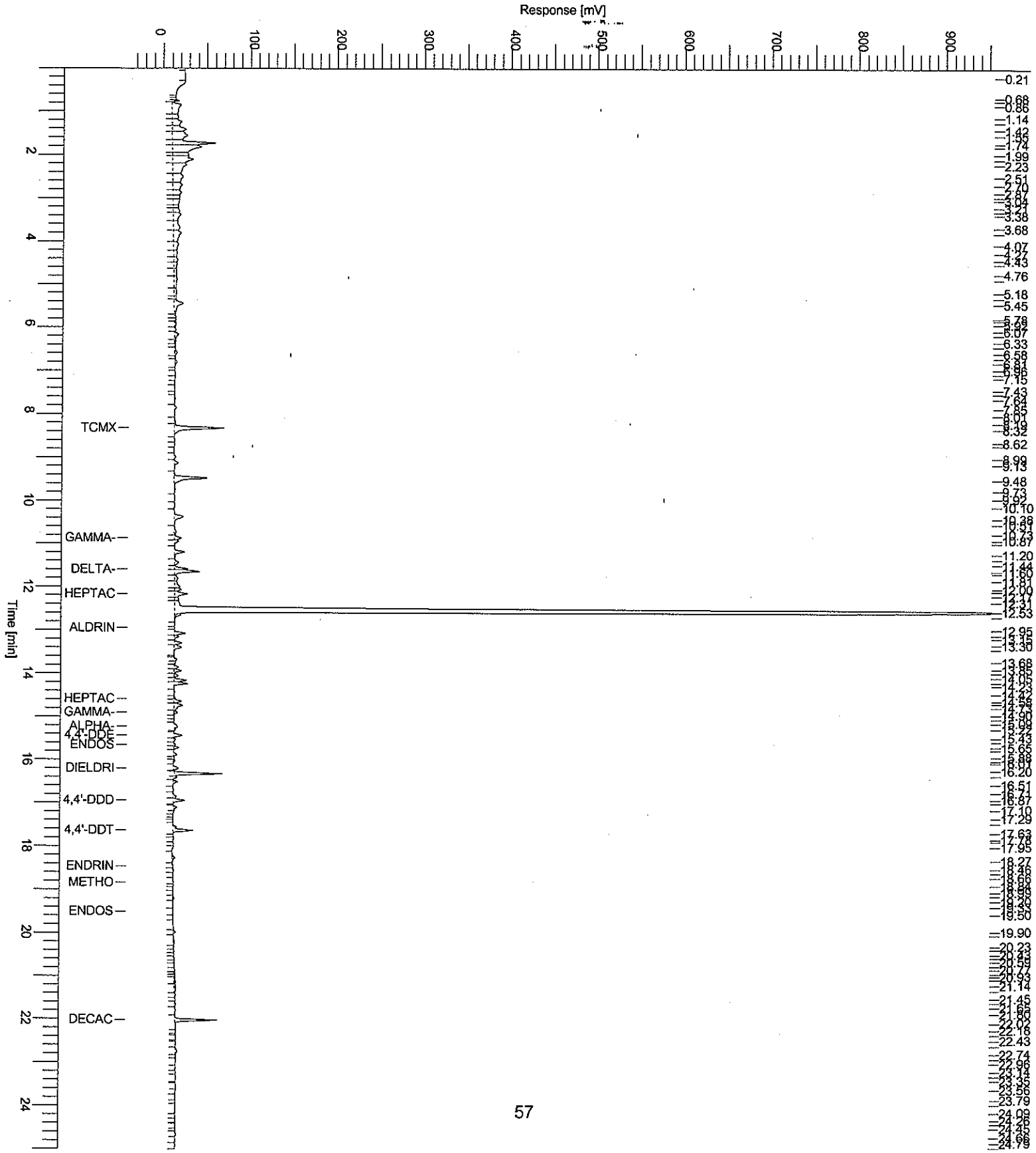
GC23 Rtx-CLPesticides

Sample Name : 174320-005,94186 Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a025.raw
Date : 9/1/04 1:43:38 PM
Method :
Time of Injection: 9/1/04 12:43:06 AM
Start Time : 0.02 min End Time : 25.00 min Low Point : -40.80 mV High Point : 129.19 mV
Plot Offset: -40.80 mV Plot Scale: 170.0 mV



GC23 Rtx-CLPesticides

Sample Name : 174320-005,94186 Sample #: 94186
FileName : G:\gc23\CHa\244a025.raw
Date : 9/1/04 10:33:01 AM
Method : gc23ins Time of Injection: 9/1/04 12:43:06 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -38.31 mV High Point : 954.97 mV
Scale Factor: 1.0 Plot Offset: -38.31 mV Plot Scale: 993.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-005,94186
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 25

Date : 9/1/04 1:40:58 PM
Data Acquisition Time : 9/1/04 12:43:06 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b025p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

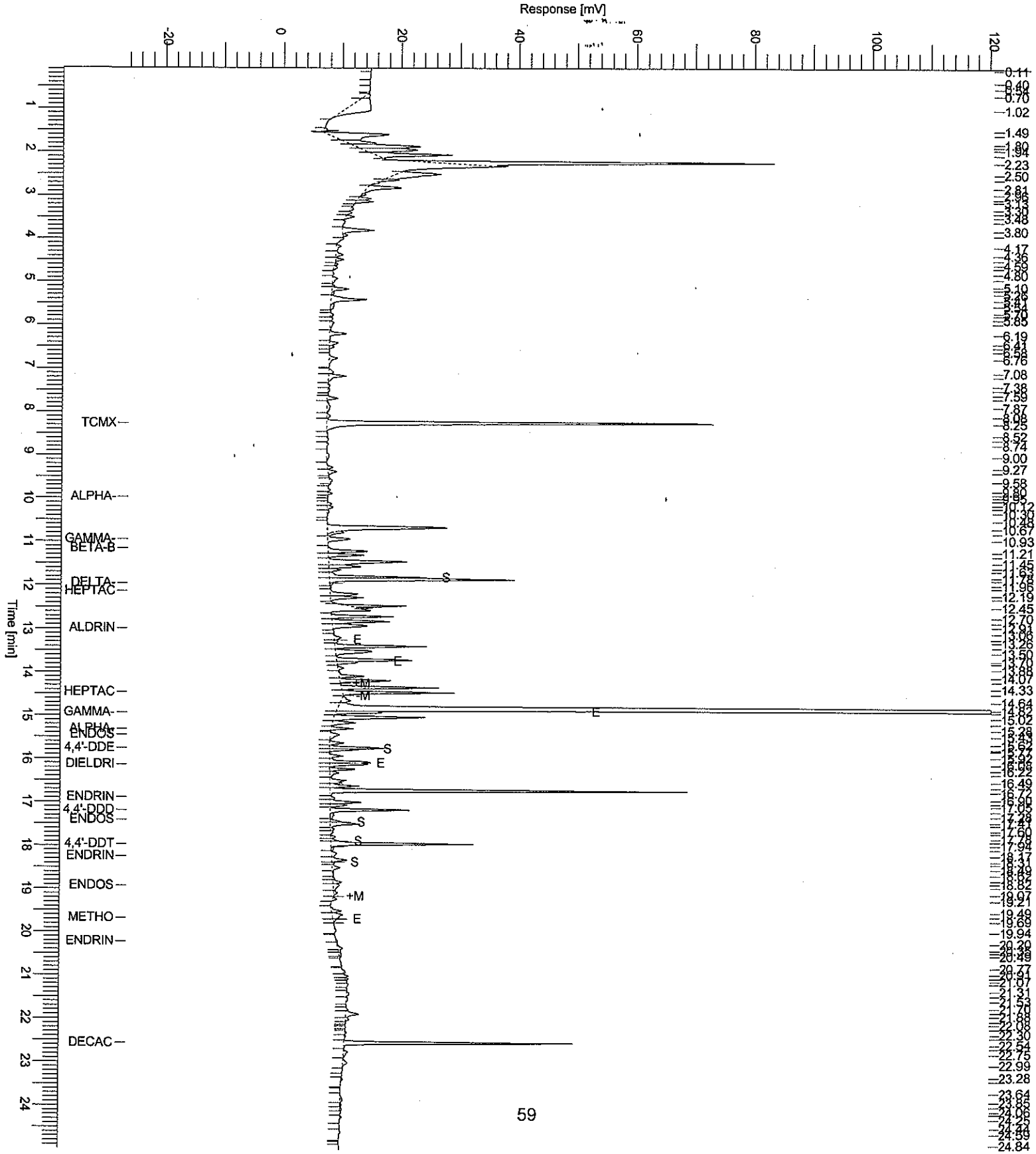
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.245	229249.43	18.9450	0.668	1	12.66
alpha-BHC	9.948	220.50	0.0118	0.668	1	0.01
gamma-BHC	10.932	15522.44	0.9210	0.668	1	0.62
beta-BHC	11.206	22651.90	3.0046	0.668	1	2.01
delta-BHC	11.958	1457.00	0.0824	0.668	1	0.06
Heptachlor	12.135	0.00	0.0000	0.668	1	0.00
Aldrin	12.982	0.00	0.0000	0.668	1	0.00
Heptachlor epoxide	14.450	52528.60	3.6724	0.668	1	2.45
gamma-Chlordane	14.934	0.00	0.0000	0.668	1	0.00
alpha-Chlordane	15.284	9731.42	0.6968	0.668	1	0.47
Endosulfan I	15.432	7724.00	0.5873	0.668	1	0.39
4,4'-DDE	15.768	11135.24	0.8343	0.668	1	0.56
Dieldrin	16.083	20808.67	1.5043	0.668	1	1.01
Endrin	16.896	2634.01	0.2533	0.668	1	0.17
4,4'-DDD	17.163	38525.79	3.6426	0.668	1	2.43
Endosulfan II	17.412	5120.70	0.4306	0.668	1	0.29
4,4'-DDT	17.935	66993.27	6.9705	0.668	1	4.66
Endrin aldehyde	18.243	0.00	0.0000	0.668	1	0.00
Endosulfan sulfate	18.898	5939.32	0.5385	0.668	1	0.36
Methoxychlor	19.694	1428.73	0.3639	0.668	1	0.24
Endrin ketone	20.204	1111.98	0.0960	0.668	1	0.06
Decachlorobiphenyl	22.536	98551.50	15.3285	0.668	1	10.25
		591334.50	57.8840			38.69

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\244b025p.TX0

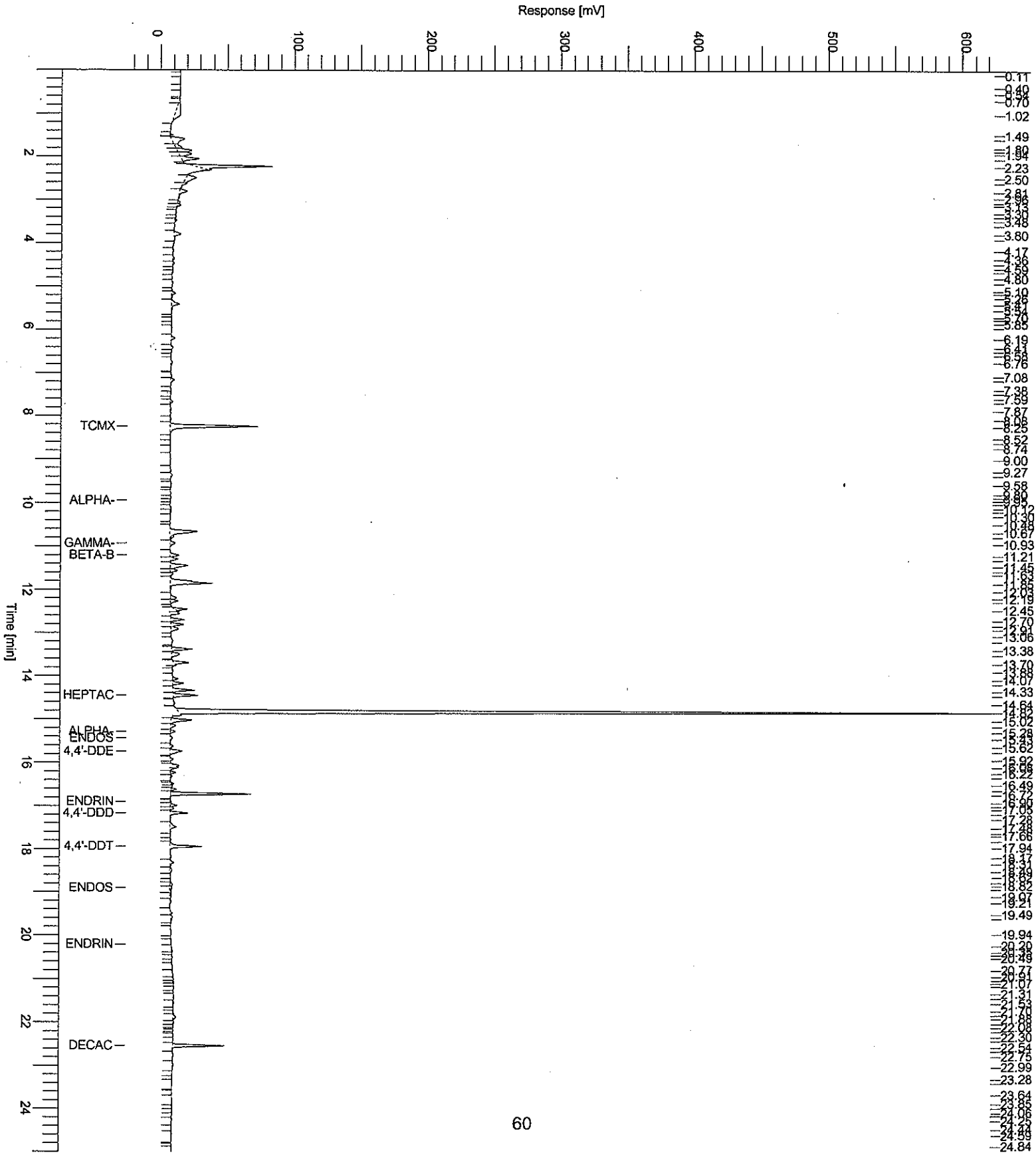
GC23 Rtx-CLPesticides2

Sample Name : 174320-005,94186 Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHb\244b025.raw
Date : 9/1/04 1:41:03 PM
Method :
Time of Injection: 9/1/04 12:43:06 AM
Start Time : 0.07 min End Time : 25.00 min Low Point : -26.14 mV High Point : 120.70 mV
Plot Offset: -26.14 mV Plot Scale: 146.8 mV



GC23 Rtx-CLPesticides2

Sample Name : 174320-005,94186 Sample #: 94186
FileName : G:\gc23\CHb\244b025
Date : 9/1/04 10:33:57 AM
Method : gc23ins Time of Injection: 9/1/04 12:43:06 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -24.51 mV High Point : 624.07 mV
Scale Factor: 1.0 Plot Offset: -24.51 mV Plot Scale: 648.6 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	174320-006	Cident	: BB3EX121[0.5]
Seqnum	: 804352004026	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 244_026	Batchnum	: 94186	Injected	: 01-SEP-2004 01:12
IDF	: 1.0			Units	: ug/Kg

Prep: 30.46 g --> 20.0 ml = 0.6566 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=244_006	Flags
alpha-BHC	A	804335061001	ND						1.7		
beta-BHC	A	804335061001	ND						1.7		
gamma-BHC	A	804335061001	ND						1.7		
delta-BHC	A	804335061001	ND						1.7		
Heptachlor	A	804335061001	ND						1.7		
Aldrin	A	804335061001	ND						1.7		
Heptachlor epoxide	A	804335061001	ND						1.7		
Endosulfan I	A	804335061001	ND						1.7		
Dieldrin	A	804335061001	ND						3.3		
4,4'-DDE	B	804335061001	ND						3.3		
Endrin	A	804335061001	ND						3.3		
Endosulfan II	A	804335061001	ND						3.3		
Endosulfan sulfate	A	804335061001	ND						3.3		rsd
4,4'-DDD	B	804335061001	ND						3.3		
Endrin ketone	A	804335061001	ND						3.3		
4,4'-DDT	A	804335061001	ND						3.3		
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	A	804335061001	ND						1.7		
gamma-Chlordane	A	804335061001	ND						1.7		
Methoxychlor	A	804335061001	ND						17		v+
Toxaphene	A		ND						59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804335061001	13.13	12.47	95	65-135	
Decachlorobiphenyl	A	804335061001	13.13	13.90	106	65-135	

+=high bias rsd=ICAL %RSD failure v=ICV

Analyst: Cal Date: 9/1/04 Reviewer: [illegible] Date: 9/1/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174320-006,94186,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 26

Date : 9/1/04 1:45:26 PM
Data Acquisition Time : 9/1/04 1:12:33 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a026p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.315	212798.58	18.9905	0.657	1	12.47
alpha-BHC	10.008	878.68	0.0504	0.657	1	0.03
gamma-BHC	10.898	275.80	0.0175	0.657	1	0.01
beta-BHC	11.107	1189.07	0.1758	0.657	1	0.12
delta-BHC	11.621	0.00	0.0000	0.657	1	0.00
Heptachlor	12.156	4595.94	0.3280	0.657	1	0.22
Aldrin	12.996	0.00	0.0000	0.657	1	0.00
Heptachlor epoxide	14.632	1576.35	0.1201	0.657	1	0.08
gamma-Chlordane	14.916	0.00	0.0000	0.657	1	0.00
alpha-Chlordane	15.216	380.00	0.0299	0.657	1	0.02
4,4'-DDE	15.438	4383.47	0.3593	0.657	1	0.24
Endosulfan I	15.646	1337.56	0.1107	0.657	1	0.07
Dieldrin	16.215	0.00	0.0000	0.657	1	0.00
Endrin	16.799	0.00	0.0000	0.657	1	0.00
4,4'-DDD	16.956	0.00	0.0000	0.657	1	0.00
Endosulfan II	17.366	0.00	0.0000	0.657	1	0.00
4,4'-DDT	17.603	714.57	0.0718	0.657	1	0.05
Endrin aldehyde	18.453	3437.47	0.3683	0.657	1	0.24
Methoxychlor	18.822	2431.47	0.5903	0.657	1	0.39
Endosulfan sulfate	19.503	2268.26	0.2275	0.657	1	0.15
Endrin ketone	20.220	2592.51	0.2278	0.657	1	0.15
Decachlorobiphenyl	22.017	145288.53	21.1768	0.657	1	13.90
		384148.27	42.8447			28.13

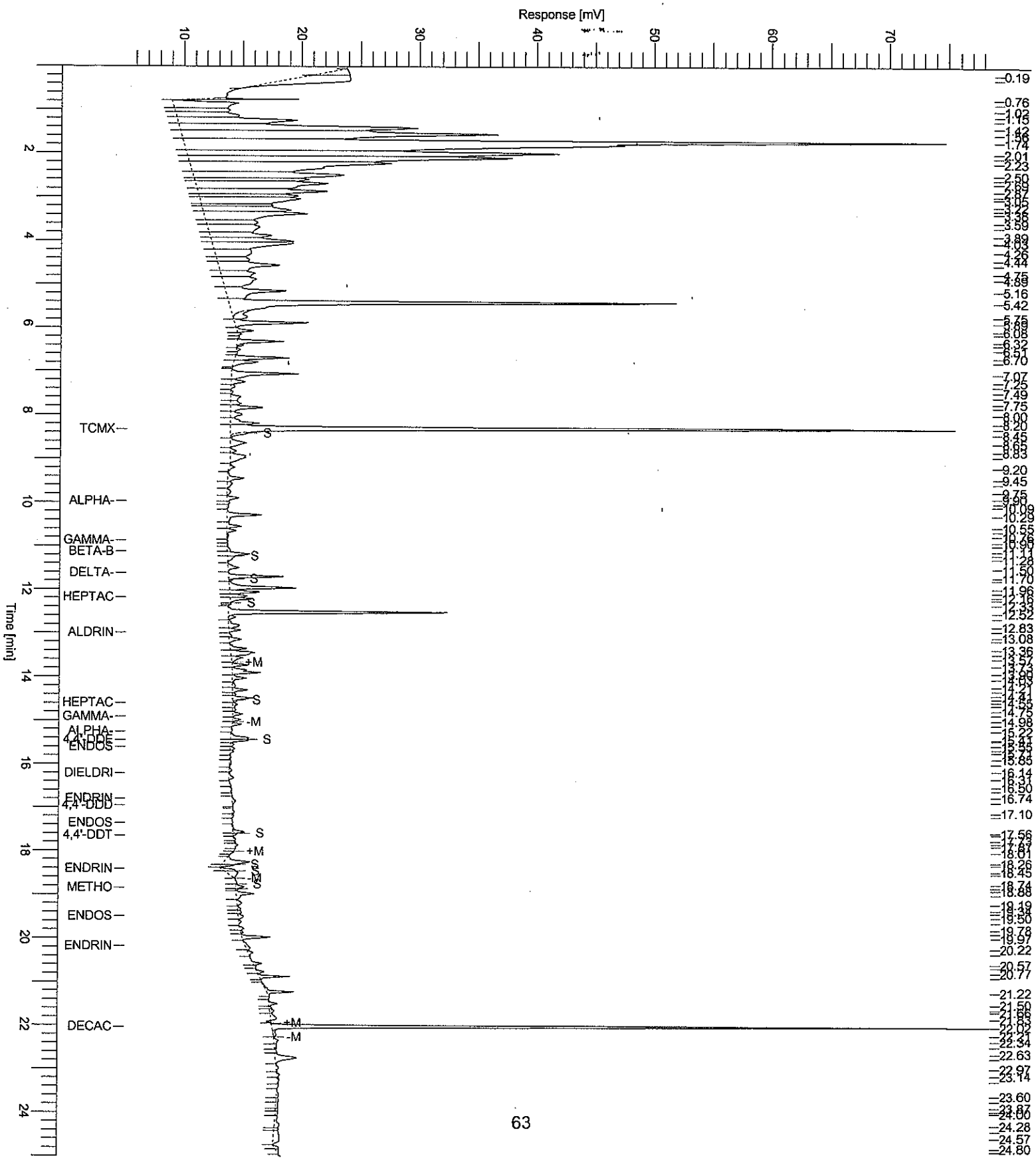
9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a026p.TX0

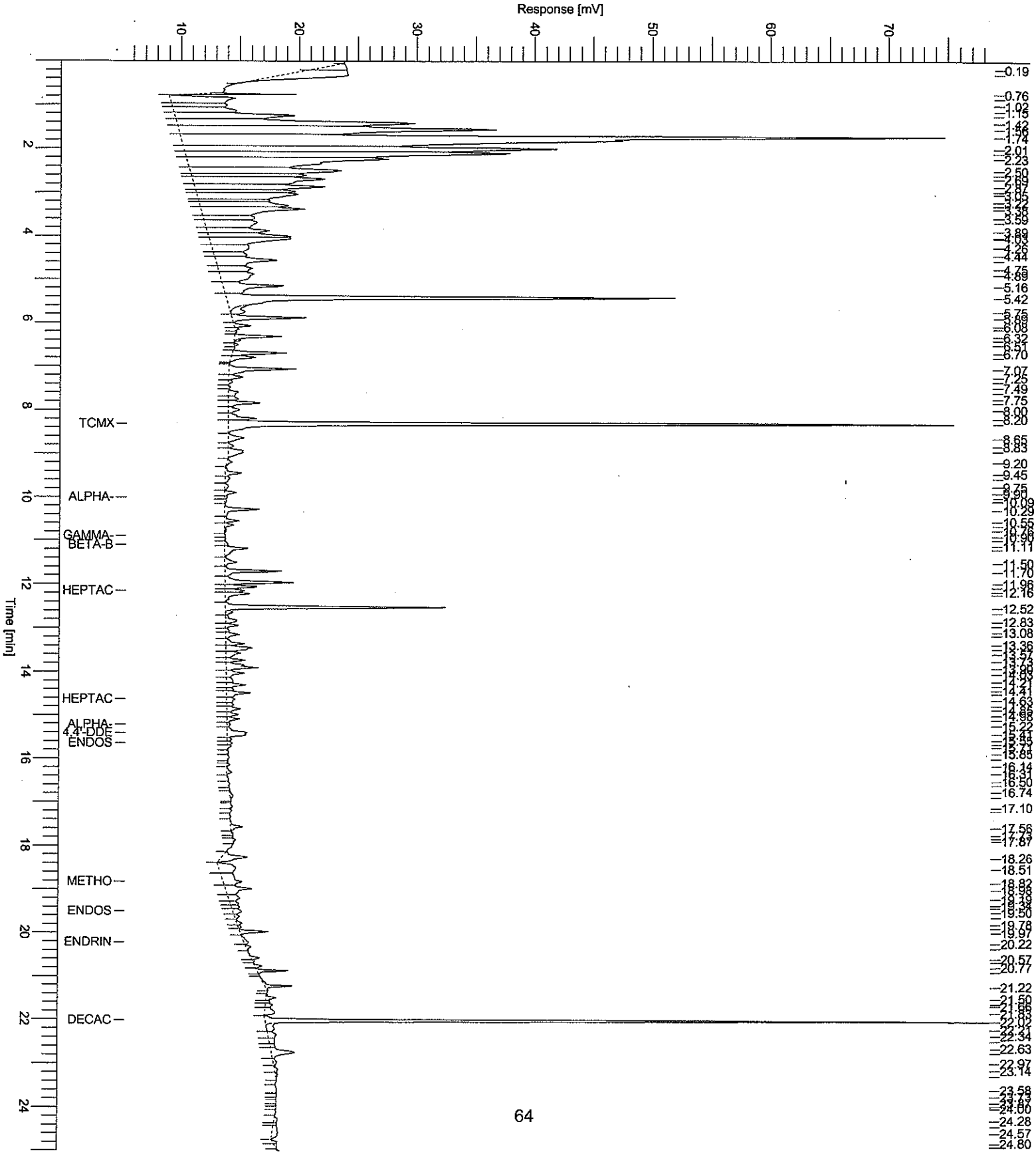
GC23 Rtx-CLPesticides

Sample Name : 174320-006,94186,mss Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a026.raw
Date : 9/1/04 1:45:40 PM
Method : Time of Injection: 9/1/04 1:12:33 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.27 mV High Point : 78.82 mV
Plot Offset: 5.27 mV Plot Scale: 73.6 mV



GC23 Rtx-CLPesticides

Sample Name : 174320-006,94186,mss Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a026.raw
Date : 9/1/04 10:33:06 AM
Method : gc23ins Time of Injection: 9/1/04 1:12:33 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.45 mV High Point : 78.82 mV
Scale Factor: 1.0 Plot Offset: 5.45 mV Plot Scale: 73.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174320-006,94186,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 26

Date : 9/1/04 1:47:53 PM
Data Acquisition Time : 9/1/04 1:12:33 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b026p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.235	218521.82	18.0585	0.657	1	11.86
alpha-BHC	9.955	51.00	0.0027	0.657	1	0.00
gamma-BHC	10.955	1187.89	0.0705	0.657	1	0.05
beta-BHC	11.135	2158.48	0.2863	0.657	1	0.19
delta-BHC	11.956	2580.50	0.1460	0.657	1	0.10
Heptachlor	12.136	6268.56	0.5417	0.657	1	0.36
Aldrin	12.969	1899.00	0.1219	0.657	1	0.08
Heptachlor epoxide	14.493	414.00	0.0289	0.657	1	0.02
gamma-Chlordane	14.902	908.53	0.0624	0.657	1	0.04
alpha-Chlordane	15.271	334.00	0.0239	0.657	1	0.02
Endosulfan I	15.420	625.68	0.0476	0.657	1	0.03
4,4'-DDE	15.723	2551.11	0.1911	0.657	1	0.13
Dieldrin	16.131	456.96	0.0330	0.657	1	0.02
Endrin	16.868	458.28	0.0441	0.657	1	0.03
4,4'-DDD	17.220	941.65	0.0890	0.657	1	0.06
Endosulfan II	17.449	1021.00	0.0859	0.657	1	0.06
4,4'-DDT	17.933	1582.63	0.1647	0.657	1	0.11
Endrin aldehyde	18.215	2826.85	0.2865	0.657	1	0.19
Endosulfan sulfate	18.900	1383.21	0.1254	0.657	1	0.08
Methoxychlor	19.696	1278.64	0.3256	0.657	1	0.21
Endrin ketone	20.214	61.25	0.0053	0.657	1	0.00
Decachlorobiphenyl	22.533	103796.03	16.1442	0.657	1	10.60
		351307.06	36.8853			24.22

----------CURTIS & TOMPKINS LTD----------

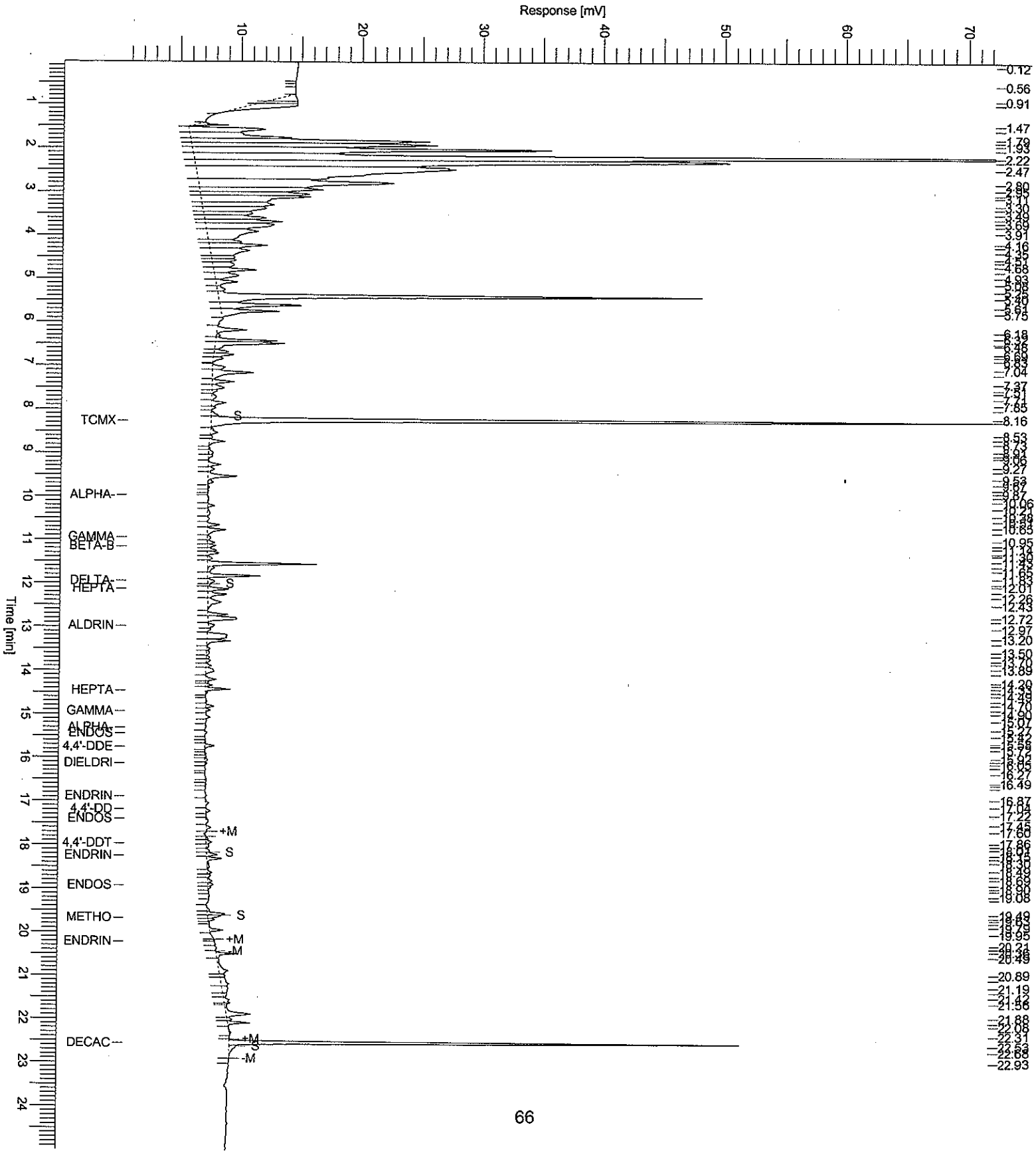
Report stored in ASCII file: G:\gc23\CHB\244b026p.TX0

GC23 Rtx-CLPesticides2

Sample Name : 174320-006,94186,mss
FileName : G:\gc23\CHb\244b026.raw
Date : 9/1/04 1:47:57 PM
Method :
Start Time : 0.02 min
Plot Offset: 0.82 mV

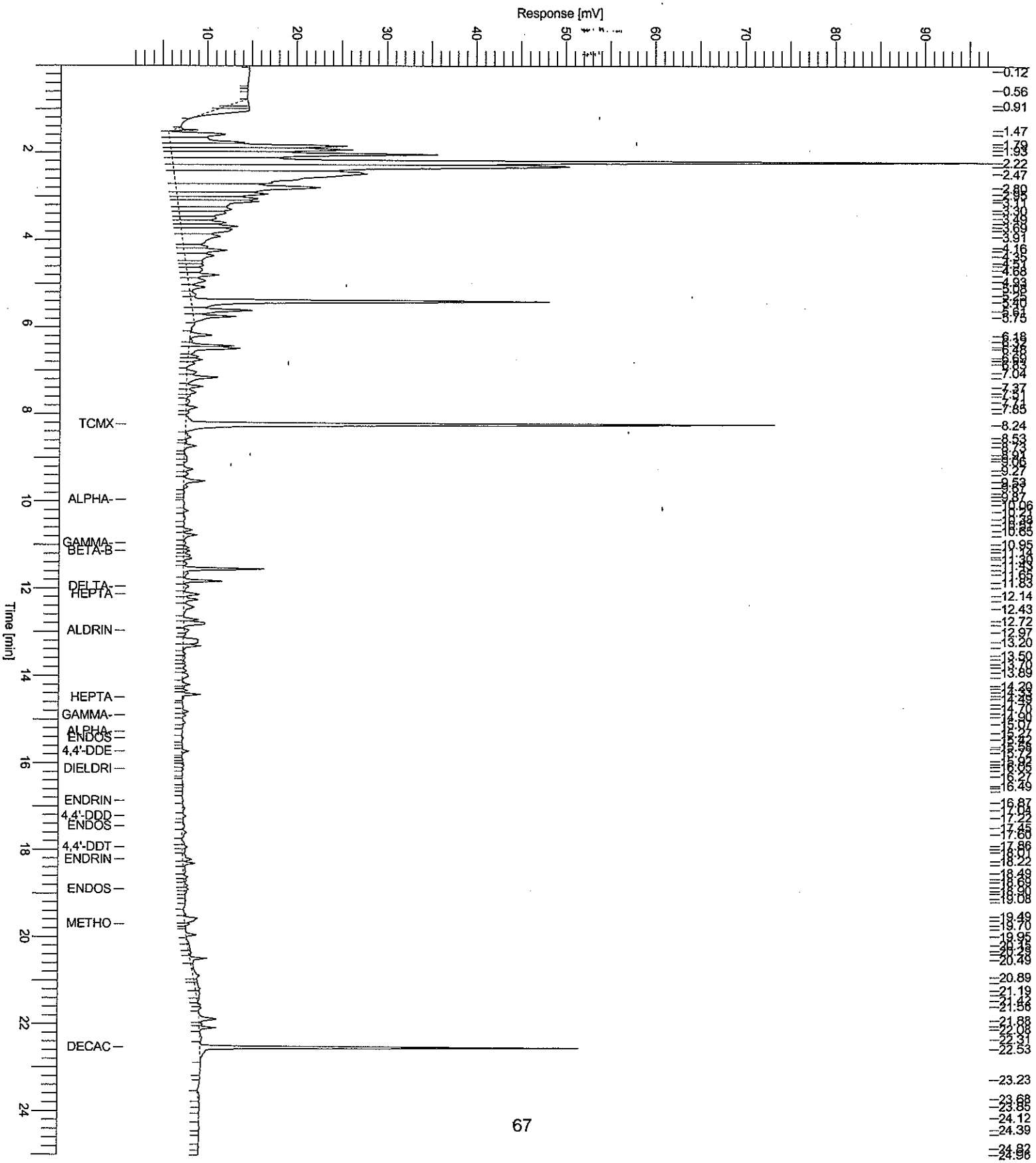
Sample #: 94186
Page 1 of 1

Time of Injection: 9/1/04 1:12:33 AM
End Time : 25.00 min
Plot Scale: 71.4 mV
Low Point : 0.82 mV
High Point : 72.23 mV



GC23 Rtx-CLPesticides2

Sample Name : 174320-006,94186,mss Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHb\244b026
Date : 9/1/04 10:34:02 AM
Method : gc23ins Time of Injection: 9/1/04 1:12:33 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.06 mV High Point : 97.57 mV
Scale Factor: 1.0 Plot Offset: 1.06 mV Plot Scale: 96.5 mV



QC RAW DATA

BLANK USER REPORT FOR BATCH 94186
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	QC263010	Cident	:
Seqnum	: 804352004006	Matrix	: Soil	Acctnum	: STANDARD
Filename	: 244_006	Batchnum	: 94186	Injected	: 31-AUG-2004 13:23
IDF	: 1.0			Units	: ug/Kg

Prep: 29.85 g --> 20.0 ml = 0.67 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	Flags
gamma-BHC	A	804335061001	ND						1.7	u
Heptachlor	A	804335061001	ND						1.7	u
Aldrin	A	804335061001	ND						1.7	u
Dieldrin	A	804335061001	ND						3.3	u
Endrin	A	804335061001	ND						3.3	u
4,4'-DDT	A	804335061001	ND						3.3	u
alpha-BHC	A	804335061001	ND						1.7	u
beta-BHC	A	804335061001	ND						1.7	u
delta-BHC	A	804335061001	ND						1.7	u
Heptachlor epoxide	A	804335061001	ND						1.7	u
gamma-Chlordane	A	804335061001	ND						1.7	u
alpha-Chlordane	A	804335061001	ND						1.7	u
Endosulfan I	A	804335061001	ND						1.7	u
4,4'-DDE	A	804335061001	ND						3.3	<c+ u
Endosulfan II	A	804335061001	ND						3.3	u
Endosulfan sulfate	A	804335061001	ND						3.3	rsd u
4,4'-DDD	A	804335061001	ND						3.3	u
Endrin aldehyde	A	804335061001	ND						3.3	rsd u
Endrin ketone	A	804335061001	ND						3.3	
Chlordane (Technical)	A		ND						30	
Methoxychlor	A	804335061001	ND						17	u v+
Toxaphene	A		ND						60	u

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804335061001	13.40	12.31	92	65-135	u
Decachlorobiphenyl	A	804335061001	13.40	11.26	84	65-135	u

CG 9/1/04

Mat 9/1/04

+=high bias <=opening c=CCV rsd=ICAL %RSD failure u=use v=ICV

Software Version : 6.1.2.0.1:D19
Sample Name : qc263010,94186,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 6

Date : 8/31/04 3:45:37 PM
Data Acquisition Time : 8/31/04 1:23:59 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a006p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
				.670617		
TCMX	8.317	205885.59	18.3736	0.335	1	6.16
alpha-BHC	10.017	1382.56	0.0793	0.335	1	0.03
gamma-BHC	10.872	0.00	0.0000	0.335	1	0.00
beta-BHC	11.089	1927.34	0.2849	0.335	1	0.10
delta-BHC	11.606	514.36	0.0313	0.335	1	0.01
Heptachlor	12.173	4655.12	0.3323	0.335	1	0.11
Aldrin	12.996	0.00	0.0000	0.335	1	0.00
Heptachlor epoxide	14.635	2602.23	0.1982	0.335	1	0.07
gamma-Chlordane	14.931	653.00	0.0488	0.335	1	0.02
alpha-Chlordane	15.219	677.00	0.0532	0.335	1	0.02
4,4'-DDE	15.461	4831.27	0.3960	0.335	1	0.13
Endosulfan I	15.646	2140.52	0.1771	0.335	1	0.06
Dieldrin	16.215	0.00	0.0000	0.335	1	0.00
Endrin	16.784	397.67	0.0377	0.335	1	0.01
4,4'-DDD	16.956	0.00	0.0000	0.335	1	0.00
Endosulfan II	17.348	1127.50	0.1022	0.335	1	0.03
4,4'-DDT	17.619	389.30	0.0391	0.335	1	0.01
Endrin aldehyde	18.394	3428.22	0.3673	0.335	1	0.12
Methoxychlor	18.829	2465.50	0.5985	0.335	1	0.20
Endosulfan sulfate	19.487	3026.84	0.3036	0.335	1	0.10
Endrin ketone	20.163	2525.00	0.2219	0.335	1	0.07
Decachlorobiphenyl	22.019	115262.42	16.8003	0.335	1	5.63
		353891.43	38.4452			12.88

x2

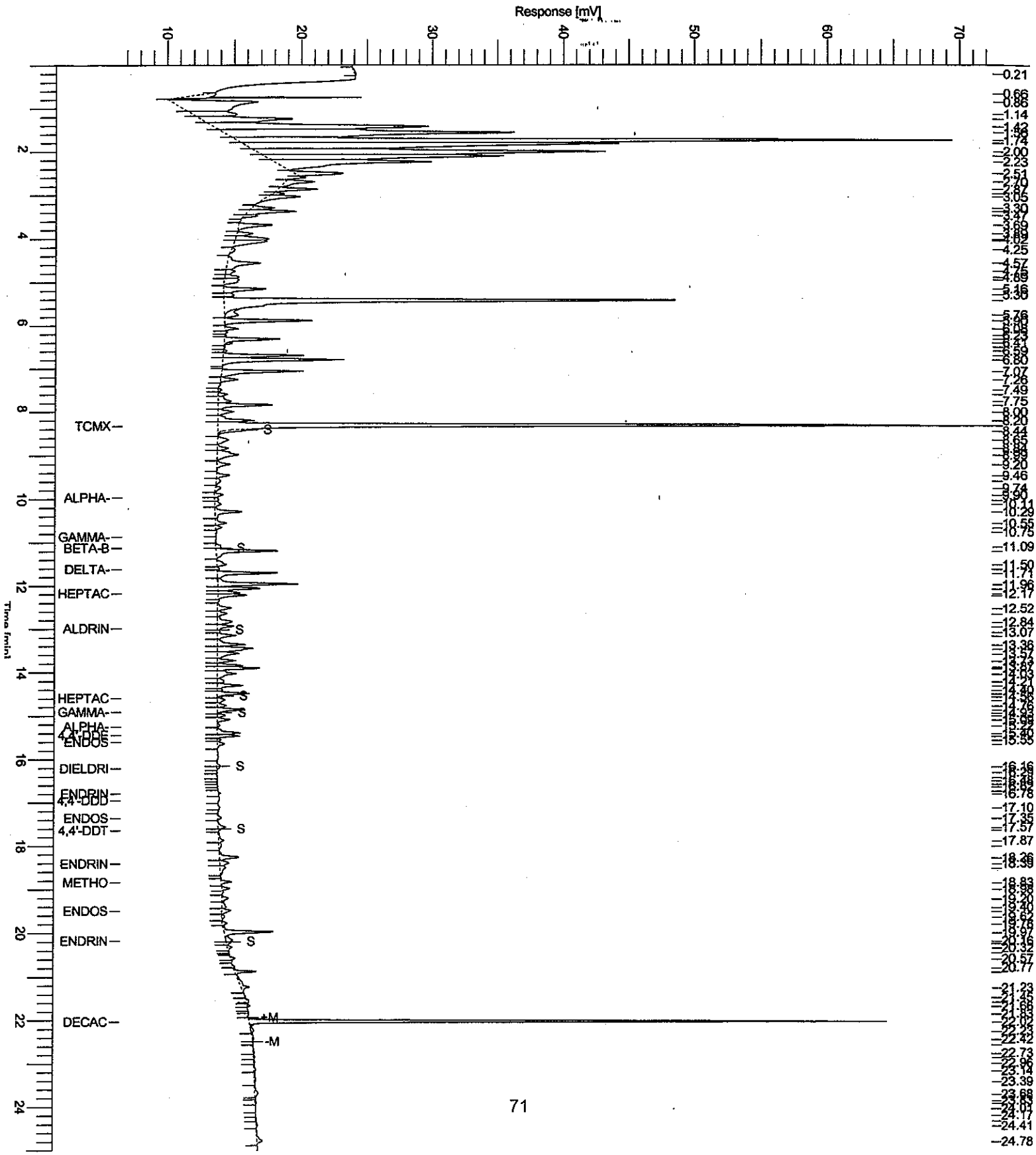
CP 8/31/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a006p.TX0

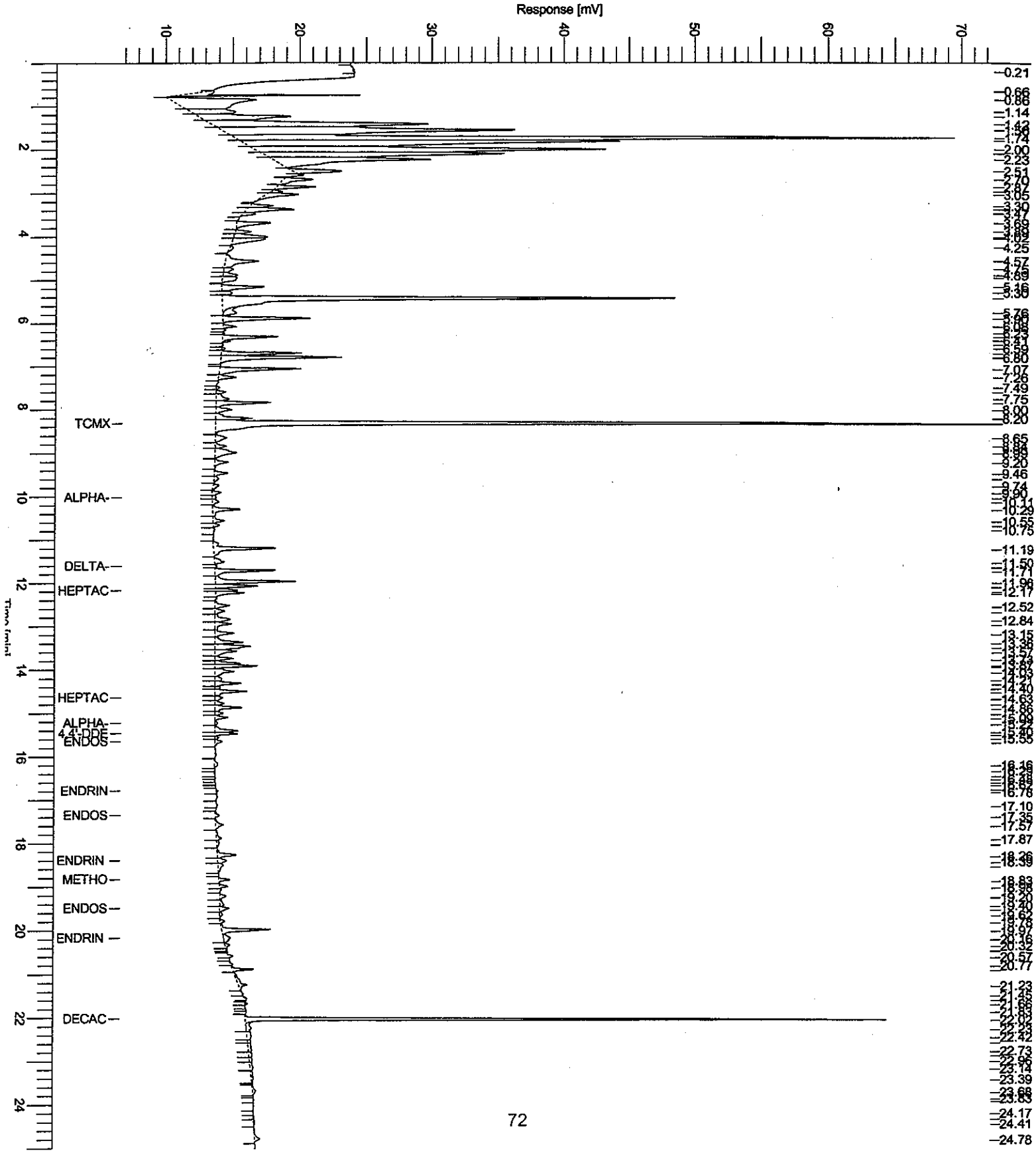
GC23 Rtx-CLPesticides

ample Name : qc263010,94186,mb Sample #: 94186 Page 1 of 1
leName : G:\gc23\CHa\244a006.raw
ate : 8/31/04 3:45:42 PM
lethod : Time of Injection: 8/31/04 1:23:59 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 6.68 mV High Point : 72.49 mV
lot Offset: 6.68 mV Plot Scale: 65.8 mV



GC23 Rtx-CLPesticides

ample Name : qc263010,94186,mb Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHa\244a006.raw
ate : 8/31/04 3:24:55 PM
ethod : gc23ins Time of Injection: 8/31/04 1:23:59 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 6.85 mV High Point : 72.49 mV
cale Factor: 1.0 Plot Offset: 6.85 mV Plot Scale: 65.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263010,94186,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 6

Date : 8/31/04 3:43:39 PM
Data Acquisition Time : 8/31/04 1:23:59 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b006p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

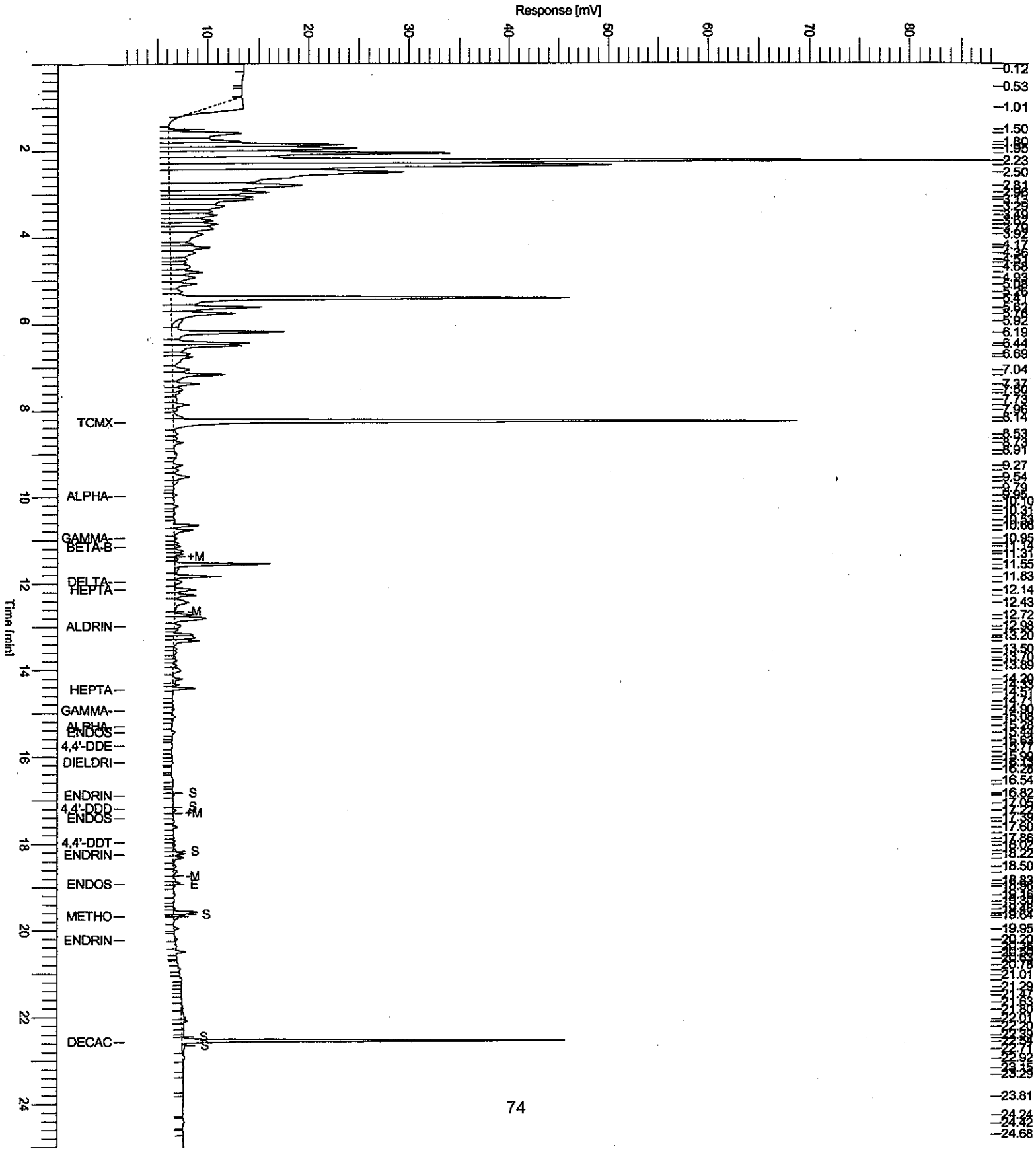
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.238	215961.45	17.8469	0.335	1	5.98
alpha-BHC	9.949	1043.16	0.0560	0.335	1	0.02
gamma-BHC	10.954	846.64	0.0502	0.335	1	0.02
beta-BHC	11.136	1814.31	0.2407	0.335	1	0.08
delta-BHC	11.959	3260.50	0.1844	0.335	1	0.06
Heptachlor	12.143	7605.82	0.6572	0.335	1	0.22
Aldrin	12.976	3226.24	0.2071	0.335	1	0.07
Heptachlor epoxide	14.422	6366.28	0.4451	0.335	1	0.15
gamma-Chlordane	14.905	818.75	0.0563	0.335	1	0.02
alpha-Chlordane	15.278	411.45	0.0295	0.335	1	0.01
Endosulfan I	15.440	1034.50	0.0787	0.335	1	0.03
4,4'-DDE	15.765	414.50	0.0311	0.335	1	0.01
Dieldrin	16.133	523.95	0.0379	0.335	1	0.01
Endrin	16.868	696.10	0.0669	0.335	1	0.02
4,4'-DDD	17.221	1123.36	0.1062	0.335	1	0.04
Endosulfan II	17.386	360.69	0.0303	0.335	1	0.01
4,4'-DDT	17.931	722.51	0.0752	0.335	1	0.03
Endrin aldehyde	18.218	3856.01	0.3907	0.335	1	0.13
Endosulfan sulfate	18.898	2085.22	0.1891	0.335	1	0.06
Methoxychlor	19.688	2003.16	0.5102	0.335	1	0.17
Endrin ketone	20.199	1191.53	0.1029	0.335	1	0.03
Decachlorobiphenyl	22.536	97341.63	15.1403	0.335	1	5.07
		352707.75	36.5328			12.24

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\244b006p.TX0

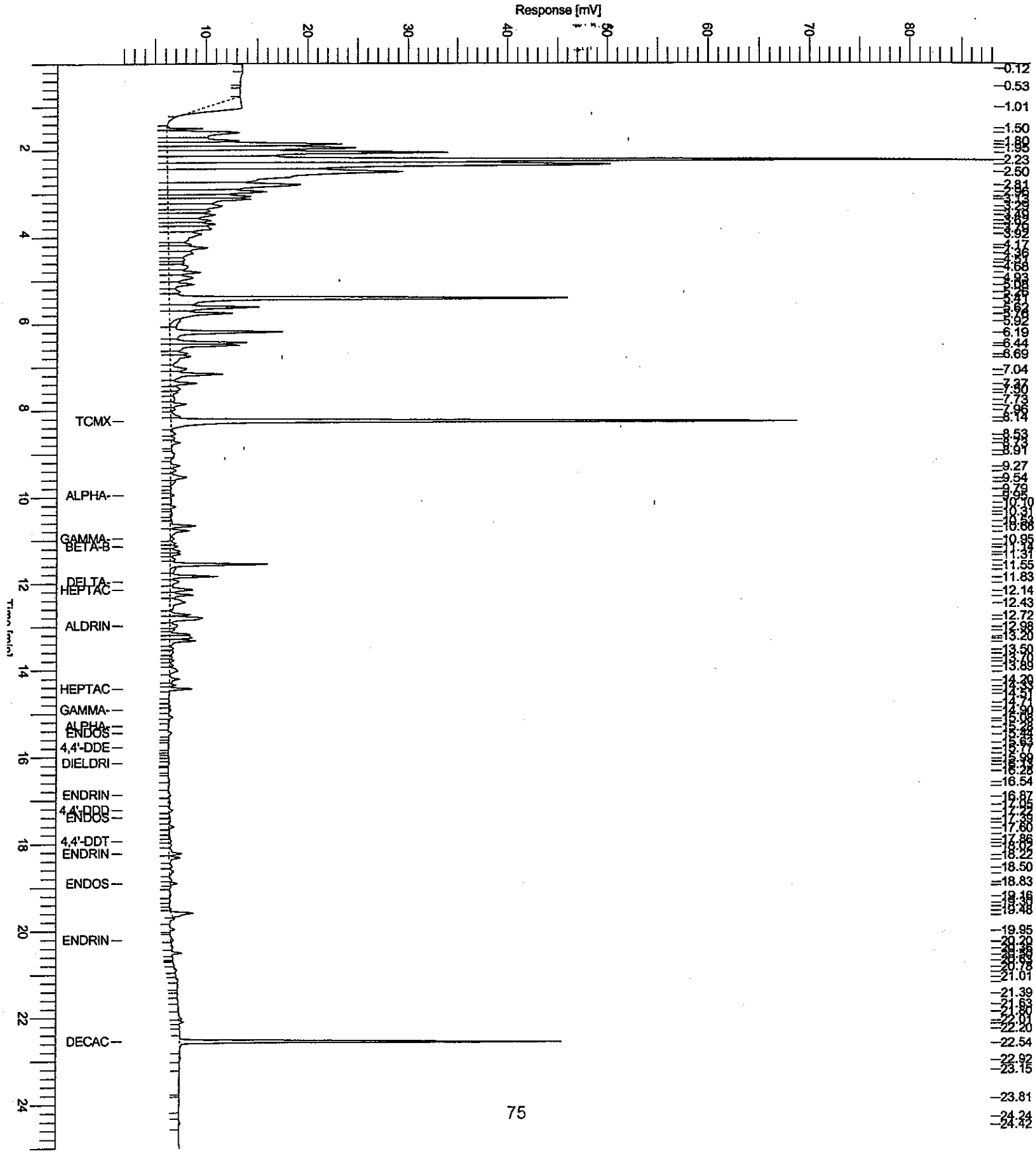
GC23 Rtx-CLPesticides2

ample Name : qc263010,94186,mb Sample #: 94186 Page 1 of 1
IleName : G:\gc23\CHb\244b006.raw
ate : 8/31/04 3:43:47 PM
lethod : Time of Injection: 8/31/04 1:23:59 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.77 mV High Point : 88.22 mV
lot Offset: 1.77 mV Plot Scale: 86.5 mV



GC23 Rtx-CLPesticides2

ample Name : qc263010,94186,mb Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b006
ate : 8/31/04 3:24:34 PM
lethod : gc23ins Time of Injection: 8/31/04 1:23:59 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.98 mV High Point : 88.22 mV
cale Factor: 1.0 Plot Offset: 1.98 mV Plot Scale: 86.2 mV



SPIKE USER REPORT FOR BATCH 94186
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23
Seqnum : 804352004007
Filename : 244_007
IDF : 1.0
Run type : LCS
Samplenum: QC263011
Matrix : Soil
Batchnum : 94186
Inj : 31-AUG-2004 13:53
Units : ug/Kg

LCS: 29.66 g --> 20.0 ml = 0.6743 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
gamma-BHC	16.86	15.24	A	90	65-123	u
Heptachlor	16.86	15.89	A	94	65-135	u
Aldrin	16.86	15.95	A	95	65-120	u
Dieldrin	16.86	16.54	A	98	65-124	u
Endrin	16.86	16.28	A	97	65-135	u
4,4'-DDT	16.86	16.06	A	95	65-135	u
TCMX	13.49	12.46	A	92	65-135	u
Decachlorobiphenyl	13.49	13.32	A	99	65-135	u

9/1/04

9/1/04

u=use

Software Version : 6.1.2.0.1:D19
Sample Name : qc263011,94186,lcs
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 8/31/04 3:48:38 PM
Data Acquisition Time : 8/31/04 1:53:26 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a007p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.317	207111.90	18.4830	0.337	1	6.23
alpha-BHC	9.956	390513.45	22.3861	0.337	1	7.55
gamma-BHC	10.855	355455.27	22.6047	0.337	1	7.62
beta-BHC	11.116	159635.59	23.5973	0.337	1	7.96
delta-BHC	11.604	378602.86	23.0073	0.337	1	7.76
Heptachlor	12.169	330210.74	23.5697	0.337	1	7.95
Aldrin	12.980	338175.22	23.6569	0.337	1	7.98
Heptachlor epoxide	14.582	306629.84	23.3525	0.337	1	7.87
gamma-Chlordane	14.900	307697.44	22.9715	0.337	1	7.74
alpha-Chlordane	15.236	299813.00	23.5789	0.337	1	7.95
4,4'-DDE	15.433	302365.00	24.7864	0.337	1	8.36
Endosulfan I	15.588	289074.00	23.9234	0.337	1	8.07
Dieldrin	16.199	313350.48	24.5265	0.337	1	8.27
Endrin	16.782	254846.90	24.1443	0.337	1	8.14
4,4'-DDD	16.938	245947.42	25.2309	0.337	1	8.51
Endosulfan II	17.349	274503.67	24.8723	0.337	1	8.39
4,4'-DDT	17.633	236849.55	23.8132	0.337	1	8.03
Endrin aldehyde	18.398	177853.97	19.0551	0.337	1	6.42
Methoxychlor	18.830	113997.70	27.6737	0.337	1	9.33
Endosulfan sulfate	19.483	239756.57	24.0460	0.337	1	8.11
Endrin ketone	20.163	286715.92	25.1985	0.337	1	8.50
Decachlorobiphenyl	22.020	135548.59	19.7572	0.337	1	6.66
		5944655.09	514.2353			173.38

x2

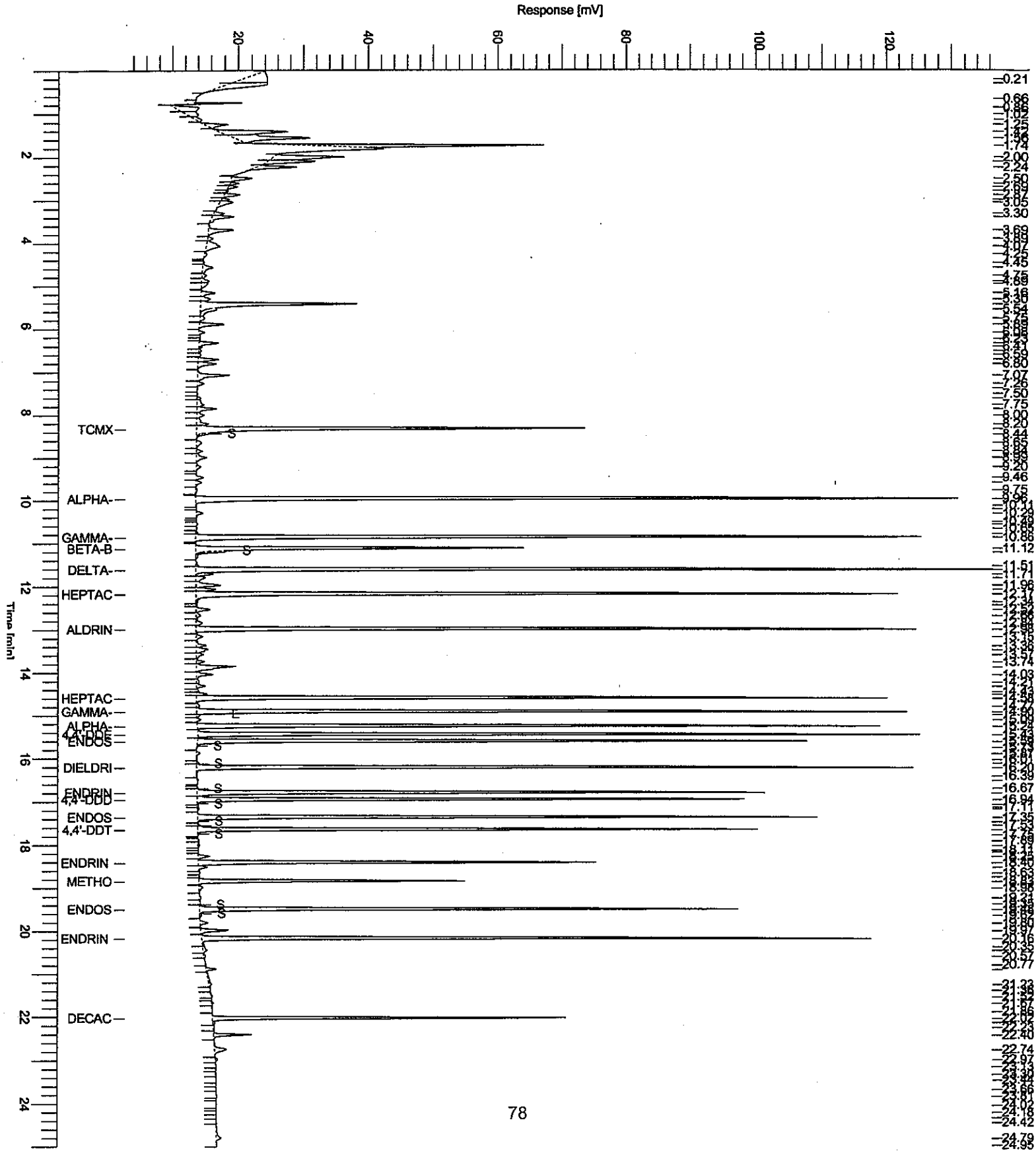
8/31/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a007p.TX0

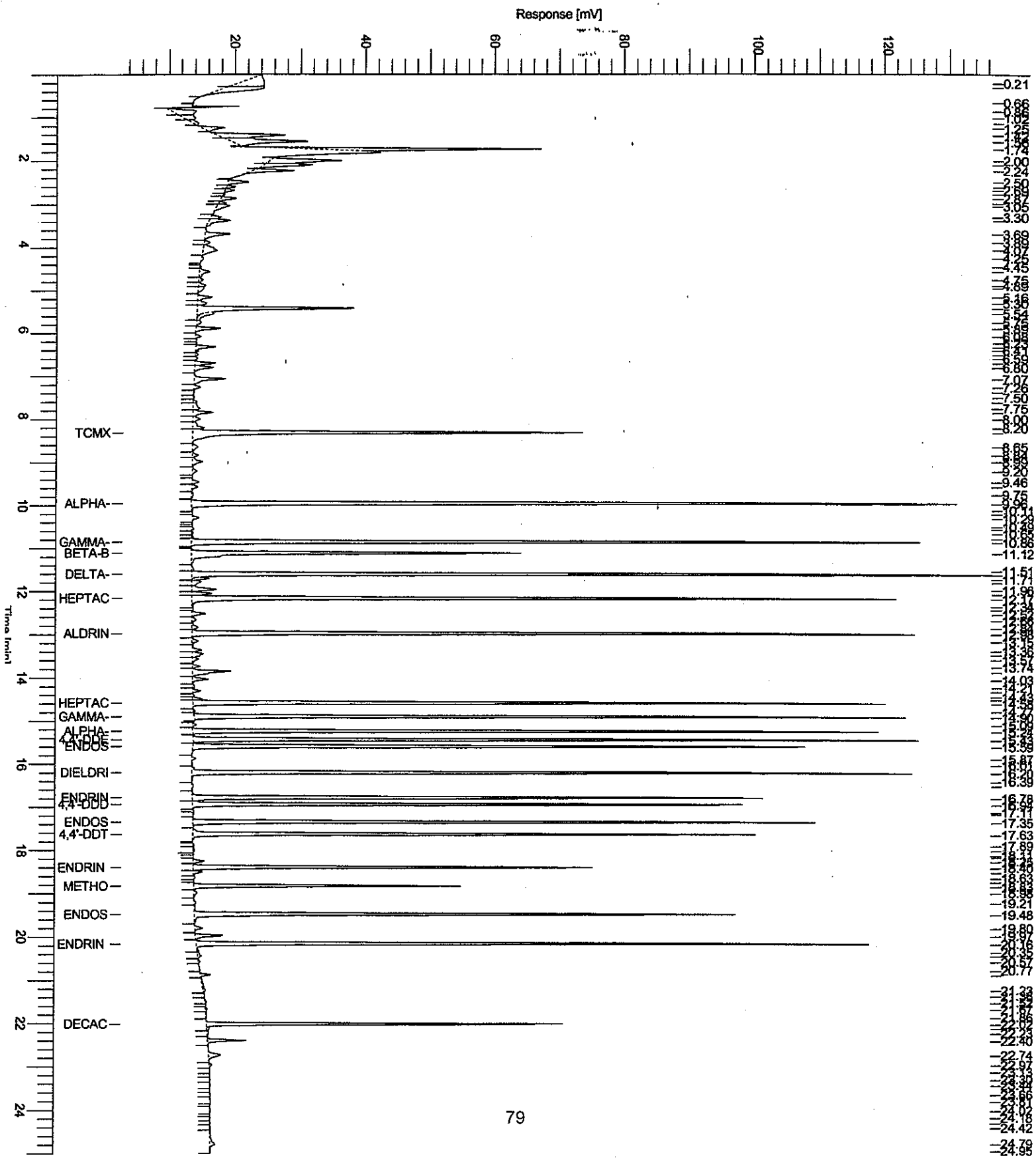
GC23 Rtx-CLPesticides

Sample Name : qc263011,94186,lcs Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a007.raw
Date : 8/31/04 3:48:43 PM
Method : Time of Injection: 8/31/04 1:53:26 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 2.81 mV High Point : 136.57 mV
Plot Offset: 2.81 mV Plot Scale: 133.8 mV



GC23 Rtx-CLPesticides

ample Name : qc263011,94186,lcs Sample #: 94186 Page 1 of 1
leName : G:\gc23\CHa\244a007.raw
ate : 8/31/04 3:25:01 PM
ethod : gc23ins Time of Injection: 8/31/04 1:53:26 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.14 mV High Point : 136.57 mV
cale Factor: 1.0 Plot Offset: 3.14 mV Plot Scale: 133.4 mV

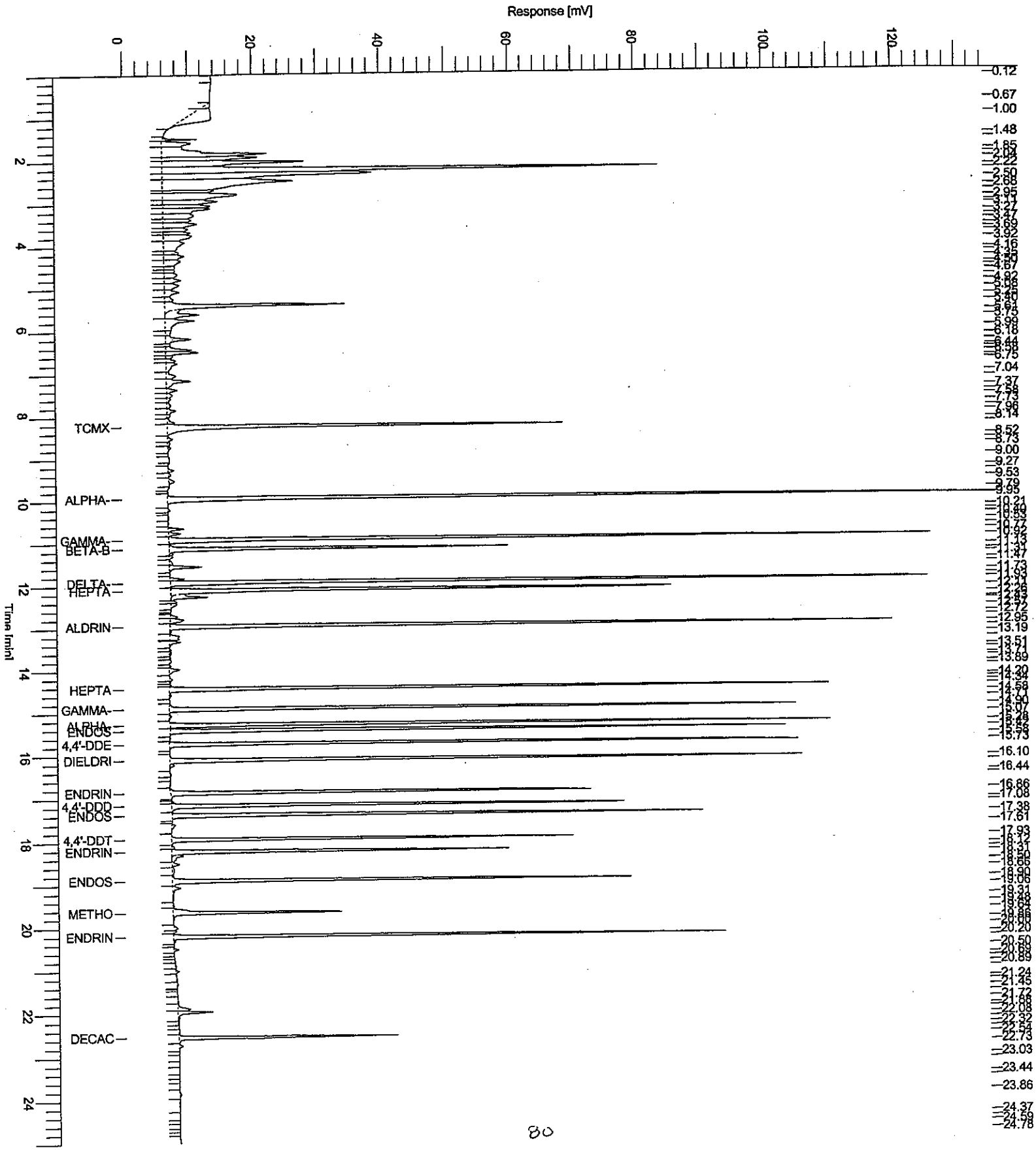


GC23 Rtx-CLPesticides2

ample Name : qc263011,94186,lcs
ileName : G:\gc23\CHb\244b007
ate : 8/31/04 3:24:39 PM
lethod : gc23ins
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 94186

Time of Injection: 8/31/04 1:53:26 PM
End Time : 25.00 min
Low Point : -0.38 mV
High Point : 134.57 mV
Plot Offset: -0.38 mV
Plot Scale: 134.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263011,94186,lcs
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 8/31/04 3:51:05 PM
Data Acquisition Time : 8/31/04 1:53:26 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b007p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.237	206816.07	17.0911	0.337	1	5.76
alpha-BHC	9.948	376468.34	20.2207	0.337	1	6.82
gamma-BHC	10.919	342229.88	20.3063	0.337	1	6.85
beta-BHC	11.134	151479.30	20.0927	0.337	1	6.77
delta-BHC	11.928	355917.10	20.1303	0.337	1	6.79
Heptachlor	12.106	246141.89	21.2688	0.337	1	7.17
Aldrin	12.952	316900.89	20.3454	0.337	1	6.86
Heptachlor epoxide	14.432	279492.35	19.5401	0.337	1	6.59
gamma-Chlordane	14.905	280310.33	19.2630	0.337	1	6.49
alpha-Chlordane	15.282	272606.50	19.5200	0.337	1	6.58
Endosulfan I	15.416	260830.75	19.8324	0.337	1	6.69
4,4'-DDE	15.730	264471.00	19.8158	0.337	1	6.68
Dieldrin	16.103	274451.30	19.8407	0.337	1	6.69
Endrin	16.862	195594.24	18.8098	0.337	1	6.34
4,4'-DDD	17.156	204536.06	19.3387	0.337	1	6.52
Endosulfan II	17.380	235807.60	19.8304	0.337	1	6.69
4,4'-DDT	17.934	165282.38	17.1973	0.337	1	5.80
Endrin aldehyde	18.217	149696.31	15.1693	0.337	1	5.11
Endosulfan sulfate	18.897	204327.92	18.5260	0.337	1	6.25
Methoxychlor	19.645	79761.17	20.3134	0.337	1	6.85
Endrin ketone	20.198	218672.00	18.8806	0.337	1	6.37
Decachlorobiphenyl	22.536	87810.72	13.6579	0.337	1	4.60
		5169604.12	418.9909			141.26

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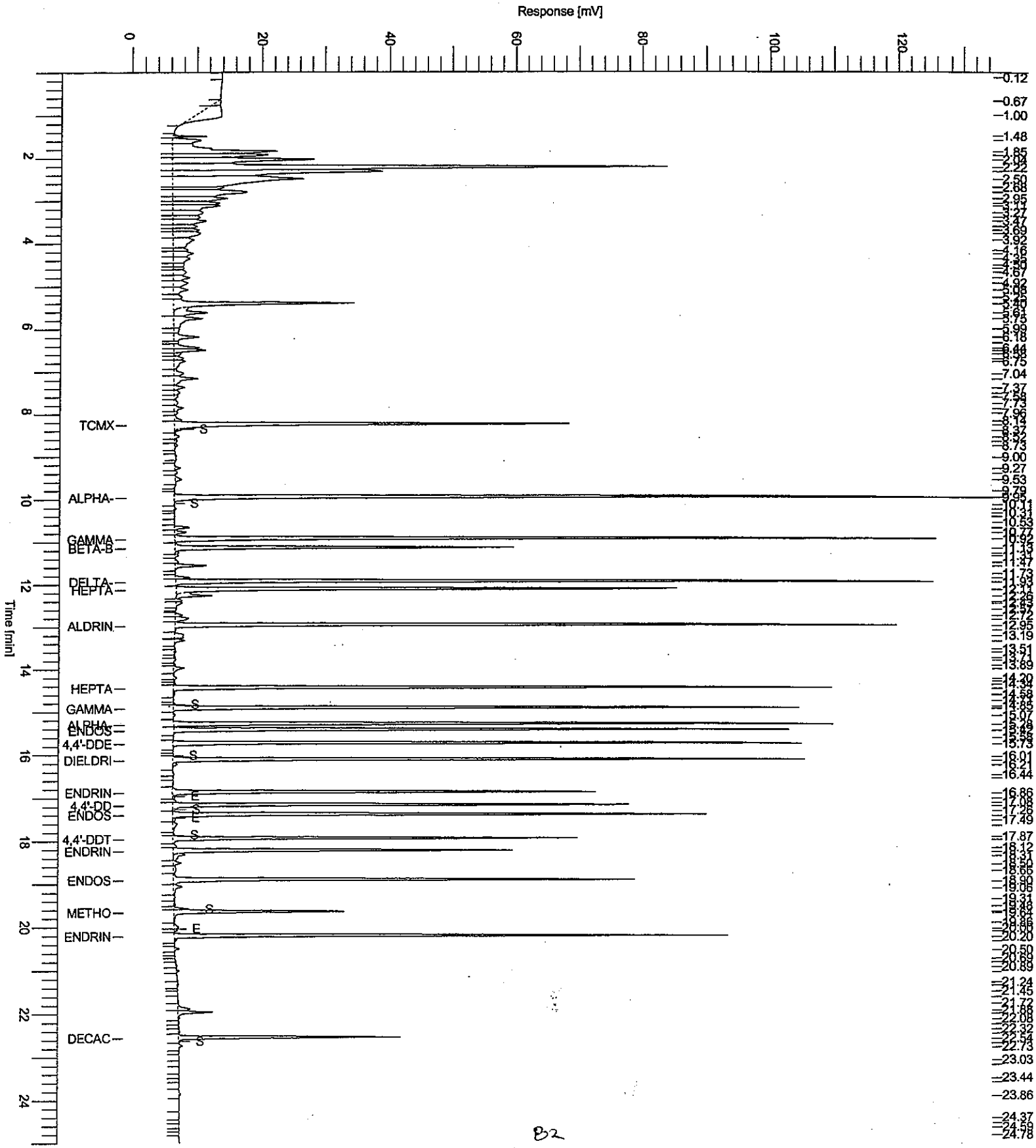
Report stored in ASCII file: G:\gc23\CHB\244b007p.TX0

GC23 Rtx-CLPesticides2

:ample Name : qc263011,94186,lcs Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b007.raw
)ate : 8/31/04 3:51:11 PM
lethod : Time of Injection: 8/31/04 1:53:26 PM
:tart Time : 0.00 min End Time : 25.00 min Low Point : -0.71 mV High Point : 134.57 mV
'lot Offset: -0.71 mV Plot Scale: 135.3 mV



B2

SPIKE USER REPORT FOR BATCH 94186
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804352004015	Seqnum : 804352004027	Seqnum : 804352004028
Filename : 244_015	Filename : 244_027	Filename : 244_028
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 173959-033	Samplenum: QC263012	Samplenum: QC263013
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94186	Batchnum : 94186	Batchnum : 94186
Inj : 31-AUG-2004 19:48	Inj : 01-SEP-2004 01:42	Inj : 01-SEP-2004 02:11
Units : ug/Kg		

MSS: 30.44 g --> 20.0 ml = 0.657 ml/g PDF
MS: 30.08 g --> 20.0 ml = 0.6649 ml/g PDF
MSD: 29.87 g --> 20.0 ml = 0.6696 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	A	16.74	15.88	A	96	15.35	A	92	65-120	4	35	
Heptachlor	ND	A	16.74	16.13	A	97	16.09	A	96	65-135	1	35	
Aldrin	ND	A	16.74	16.49	A	99	15.94	A	95	65-130	4	35	
Dieldrin	ND	A	16.74	16.41	A	99	15.86	A	95	65-135	4	35	
Endrin	ND	A	16.74	15.87	A	95	15.61	A	93	65-135	2	35	
4,4'-DDT	ND	A	16.74	15.29	A	92	16.30	A	97	65-135	6	35	
TCMX			13.39	13.16	A	99	12.81	A	96	65-135	--		
Decachlorobiphenyl			13.39	11.47	A	86	12.17	A	91	65-135	--		

03

Software Version : 6.1.2.0.1:D19
Sample Name : qc263012,94186,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 27

Date : 9/1/04 1:52:59 PM
Data Acquisition Time : 9/1/04 1:42:00 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a027p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.316	221725.19	19.7871	0.665	1	13.16
alpha-BHC	9.953	414997.66	23.7896	0.665	1	15.82
gamma-BHC	10.853	375662.01	23.8897	0.665	1	15.88
beta-BHC	11.114	172528.75	25.5031	0.665	1	16.96
delta-BHC	11.602	407140.89	24.7415	0.665	1	16.45
Heptachlor	12.167	339840.27	24.2570	0.665	1	16.13
Aldrin	12.977	354481.88	24.7976	0.665	1	16.49
Heptachlor epoxide	14.580	315198.02	24.0051	0.665	1	15.96
gamma-Chlordane	14.898	311900.99	23.2853	0.665	1	15.48
alpha-Chlordane	15.234	304519.50	23.9490	0.665	1	15.92
4,4'-DDE	15.432	326134.50	26.7349	0.665	1	17.78
Endosulfan I	15.586	293933.34	24.3255	0.665	1	16.17
Dieldrin	16.197	315291.73	24.6785	0.665	1	16.41
Endrin	16.780	251886.92	23.8638	0.665	1	15.87
4,4'-DDD	16.937	249268.58	25.5716	0.665	1	17.00
Endosulfan II	17.347	272500.93	24.6909	0.665	1	16.42
4,4'-DDT	17.631	228773.28	23.0012	0.665	1	15.29
Endrin aldehyde	18.397	153542.35	16.4504	0.665	1	10.94
Methoxychlor	18.828	107312.18	26.0507	0.665	1	17.32
Endosulfan sulfate	19.481	236230.36	23.6923	0.665	1	15.75
Endrin ketone	20.162	284160.75	24.9740	0.665	1	16.61
Decachlorobiphenyl	22.017	118385.10	17.2555	0.665	1	11.47
		6055415.18	519.2944			345.28

GP
9/1/04

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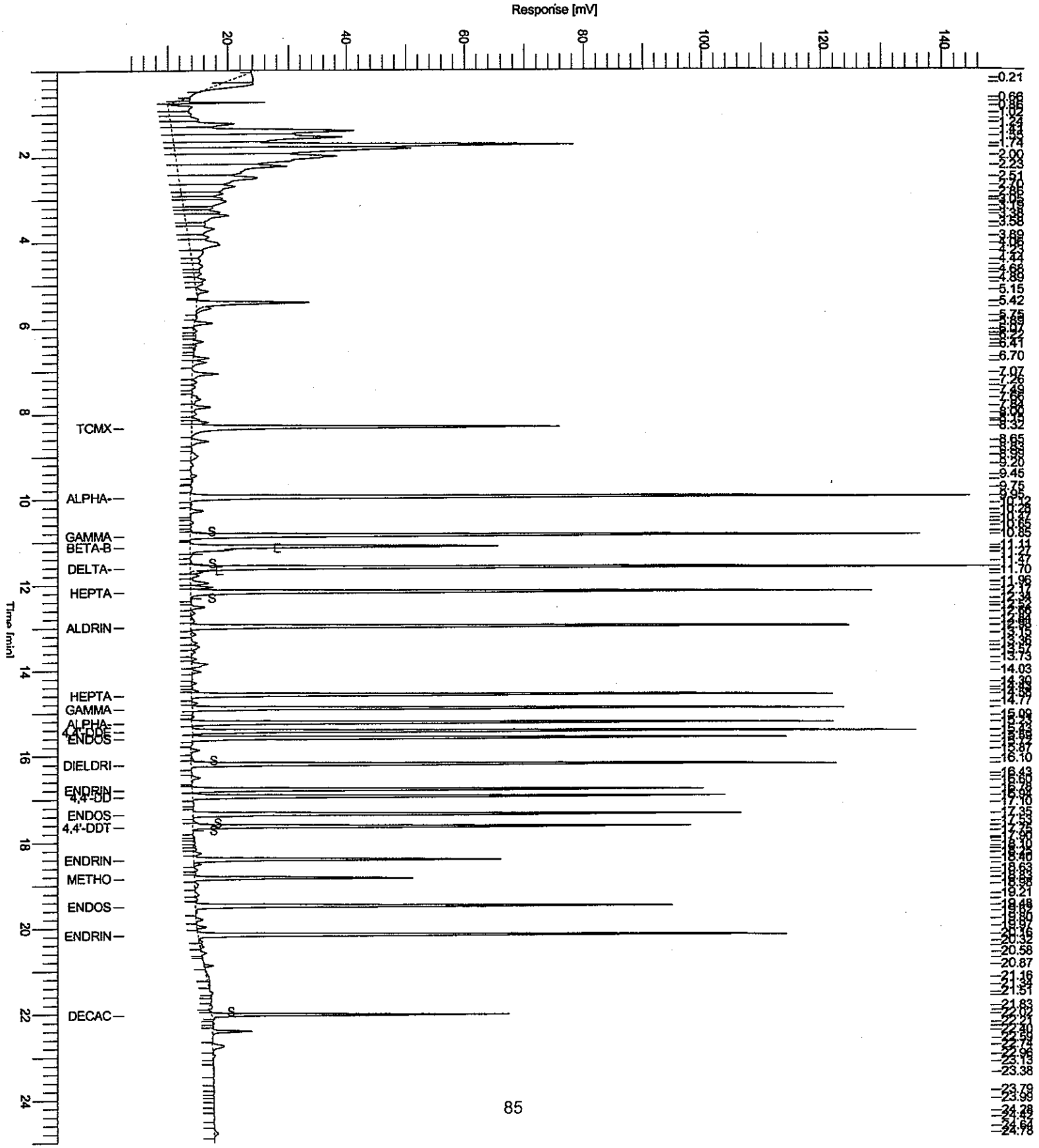
Report stored in ASCII file: G:\gc23\CHA\244a027p.TX0

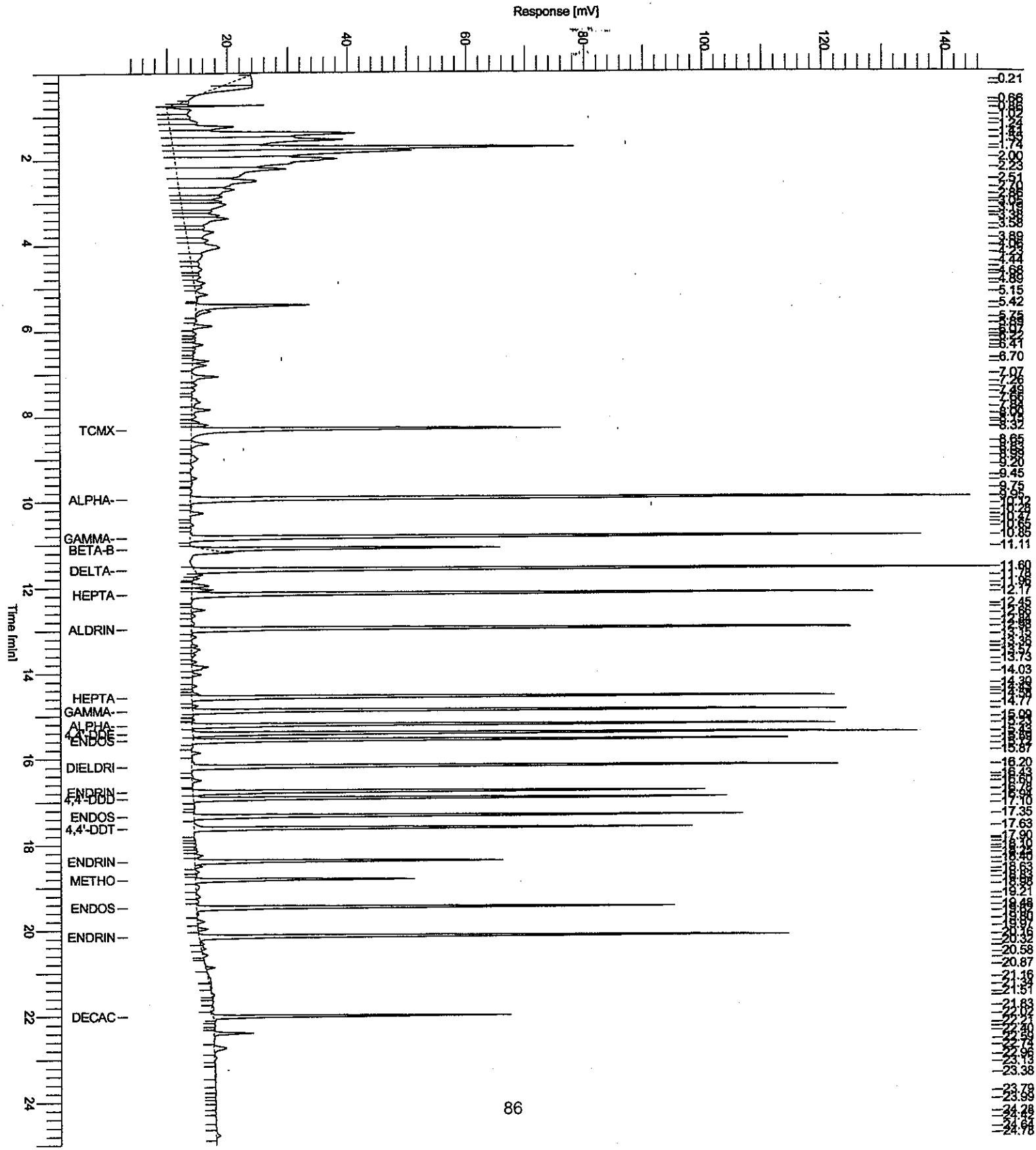
GC23 Rtx-CLPesticides

ample Name : qc263012,94186,ms Sample #: 94186 Page 1 of 1
leName : G:\gc23\CHa\244a027.raw
ate : 9/1/04 1:53:04 PM
ethod : Time of Injection: 9/1/04 1:42:00 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.67 mV High Point : 147.82 mV
lot Offset: 2.67 mV Plot Scale: 145.1 mV



GC23 Rtx-CLPesticides

ample Name : qc263012,94186,ms Sample #: 94186 Page 1 of 1
IleName : G:\gc23\CHa\244a027.raw
ate : 9/1/04 10:33:12 AM
lethod : gc23ins Time of Injection: 9/1/04 1:42:00 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.04 mV High Point : 147.82 mV
cale Factor: 1.0 Plot Offset: 3.04 mV Plot Scale: 144.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263012,94186,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 27

Date : 9/1/04 1:50:33 PM
Data Acquisition Time : 9/1/04 1:42:00 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b027p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.235	227061.22	18.7642	0.665	1	12.48
alpha-BHC	9.946	417421.45	22.4204	0.665	1	14.91
gamma-BHC	10.917	383846.63	22.7757	0.665	1	15.14
beta-BHC	11.132	169420.11	22.4724	0.665	1	14.94
delta-BHC	11.920	401695.03	22.7195	0.665	1	15.11
Heptachlor	12.103	286301.96	24.7390	0.665	1	16.45
Aldrin	12.949	360323.18	23.1332	0.665	1	15.38
Heptachlor epoxide	14.429	319129.85	22.3112	0.665	1	14.83
gamma-Chlordane	14.902	320314.25	22.0121	0.665	1	14.64
alpha-Chlordane	15.280	311038.00	22.2719	0.665	1	14.81
Endosulfan I	15.414	298361.00	22.6861	0.665	1	15.08
4,4'-DDE	15.721	327146.50	24.5119	0.665	1	16.30
Dieldrin	16.100	320523.13	23.1713	0.665	1	15.41
Endrin	16.854	246519.89	23.7072	0.665	1	15.76
4,4'-DDD	17.153	247498.81	23.4008	0.665	1	15.56
Endosulfan II	17.373	278819.52	23.4475	0.665	1	15.59
4,4'-DDT	17.931	211665.07	22.0234	0.665	1	14.64
Endrin aldehyde	18.214	168978.91	17.1233	0.665	1	11.39
Endosulfan sulfate	18.889	242912.03	22.0243	0.665	1	14.64
Methoxychlor	19.636	103002.84	26.2326	0.665	1	17.44
Endrin ketone	20.196	270012.92	23.3135	0.665	1	15.50
Decachlorobiphenyl	22.534	111467.63	17.3375	0.665	1	11.53
		6023459.94	492.5988			327.53

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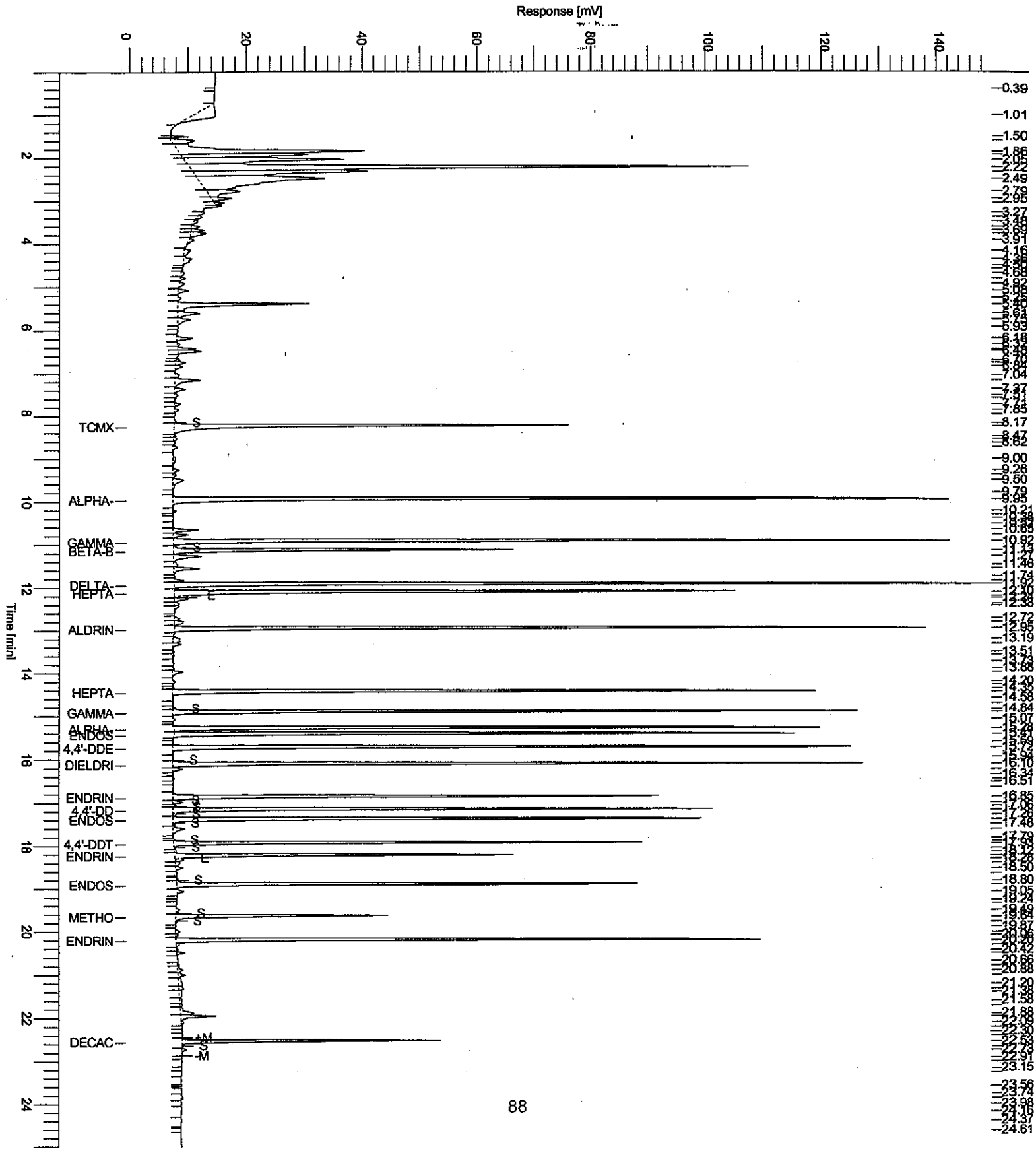
Report stored in ASCII file: G:\gc23\CHB\244b027p.TX0

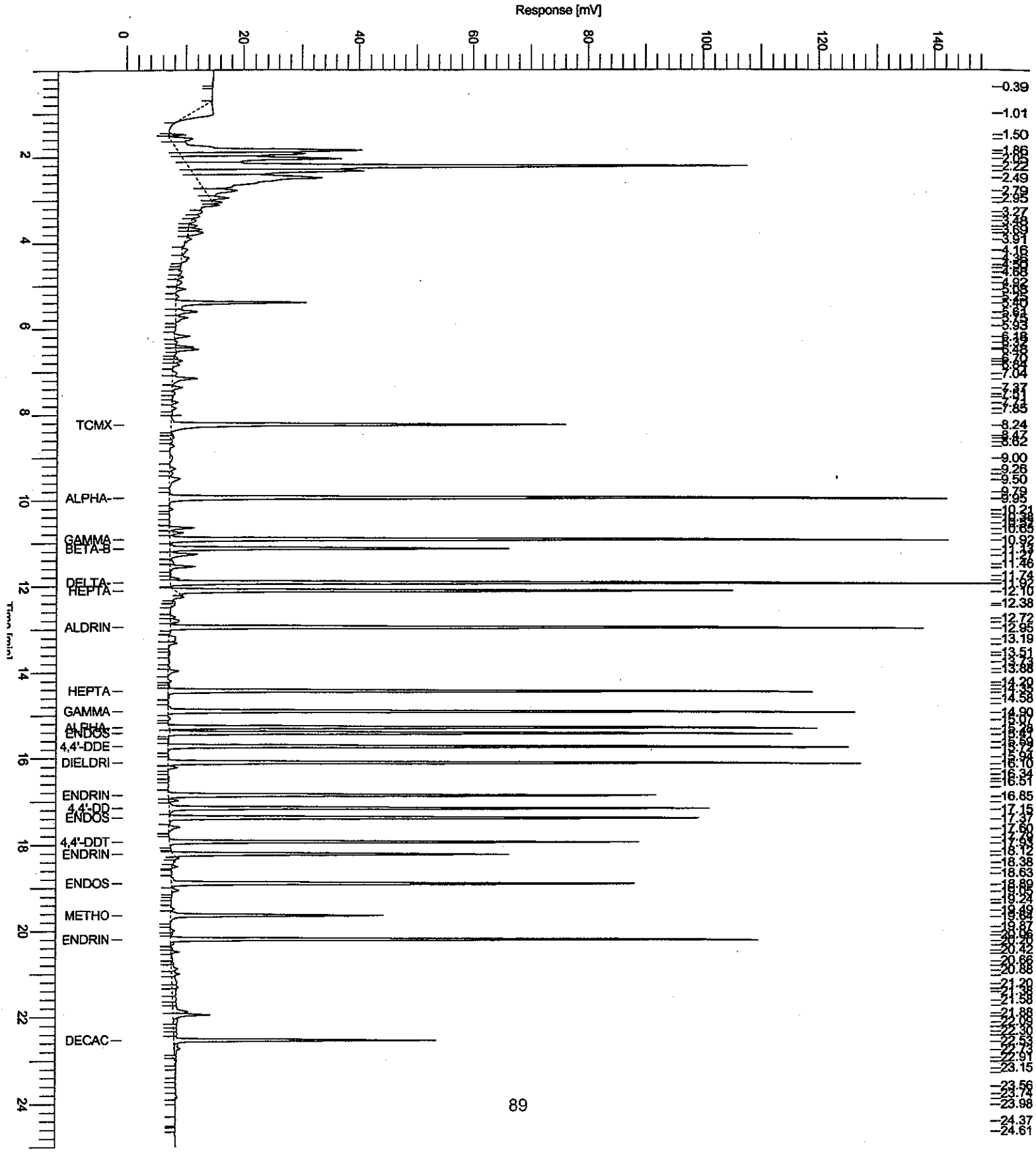
GC23 Rtx-CLPesticides2

'ample Name : qc263012,94186,ms Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b027.raw
ate : 9/1/04 1:50:40 PM
lethod : Time of Injection: 9/1/04 1:42:00 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.72 mV High Point : 149.89 mV
lot Offset: -0.72 mV Plot Scale: 150.6 mV



GC23 Rtx-CLPesticides2

ample Name : qc263012,94186,ms Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b027
ate : 9/1/04 10:34:08 AM
lethod : gc23ins Time of Injection: 9/1/04 1:42:00 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.35 mV High Point : 149.89 mV
cale Factor: 1.0 Plot Offset: -0.35 mV Plot Scale: 150.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263013,94186,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 28

Date : 9/1/04 1:56:59 PM
Data Acquisition Time : 9/1/04 2:11:27 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a028p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.316	214342.77	19.1283	0.670	1	12.81
alpha-BHC	9.953	406444.53	23.2993	0.670	1	15.60
gamma-BHC	10.853	360472.41	22.9238	0.670	1	15.35
beta-BHC	11.114	156004.50	23.0605	0.670	1	15.44
delta-BHC	11.601	395723.28	24.0477	0.670	1	16.10
Heptachlor	12.167	336640.61	24.0286	0.670	1	16.09
Aldrin	12.977	340350.22	23.8090	0.670	1	15.94
Heptachlor epoxide	14.579	304943.98	23.2241	0.670	1	15.55
gamma-Chlordane	14.898	300491.50	22.4335	0.670	1	15.02
alpha-Chlordane	15.234	293449.00	23.0784	0.670	1	15.45
4,4'-DDE	15.431	361663.50	29.6474	0.670	1	19.85
Endosulfan I	15.586	284358.79	23.5332	0.670	1	15.76
Dieldrin	16.196	302667.18	23.6903	0.670	1	15.86
Endrin	16.780	246137.78	23.3191	0.670	1	15.61
4,4'-DDD	16.936	245922.73	25.2284	0.670	1	16.89
Endosulfan II	17.347	263091.61	23.8383	0.670	1	15.96
4,4'-DDT	17.631	242139.50	24.3451	0.670	1	16.30
Endrin aldehyde	18.397	162999.34	17.4636	0.670	1	11.69
Methoxychlor	18.828	107242.01	26.0337	0.670	1	17.43
Endosulfan sulfate	19.481	229862.90	23.0537	0.670	1	15.44
Endrin ketone	20.161	276292.59	24.2825	0.670	1	16.26
Decachlorobiphenyl	22.018	124677.39	18.1726	0.670	1	12.17
		5955918.12	511.6411			342.58

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9/1/04

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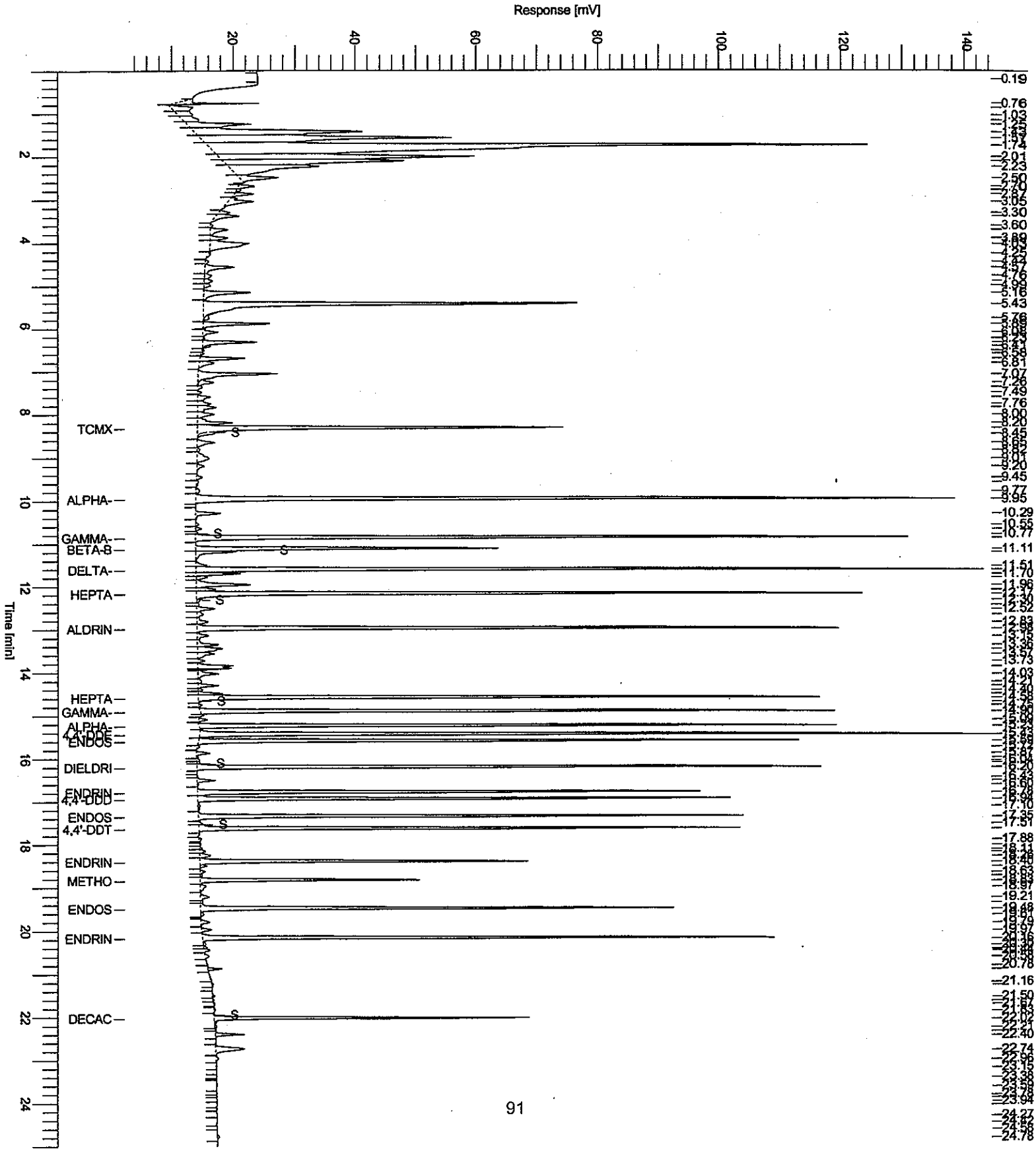
Report stored in ASCII file: G:\gc23\CHA\244a028p.TX0

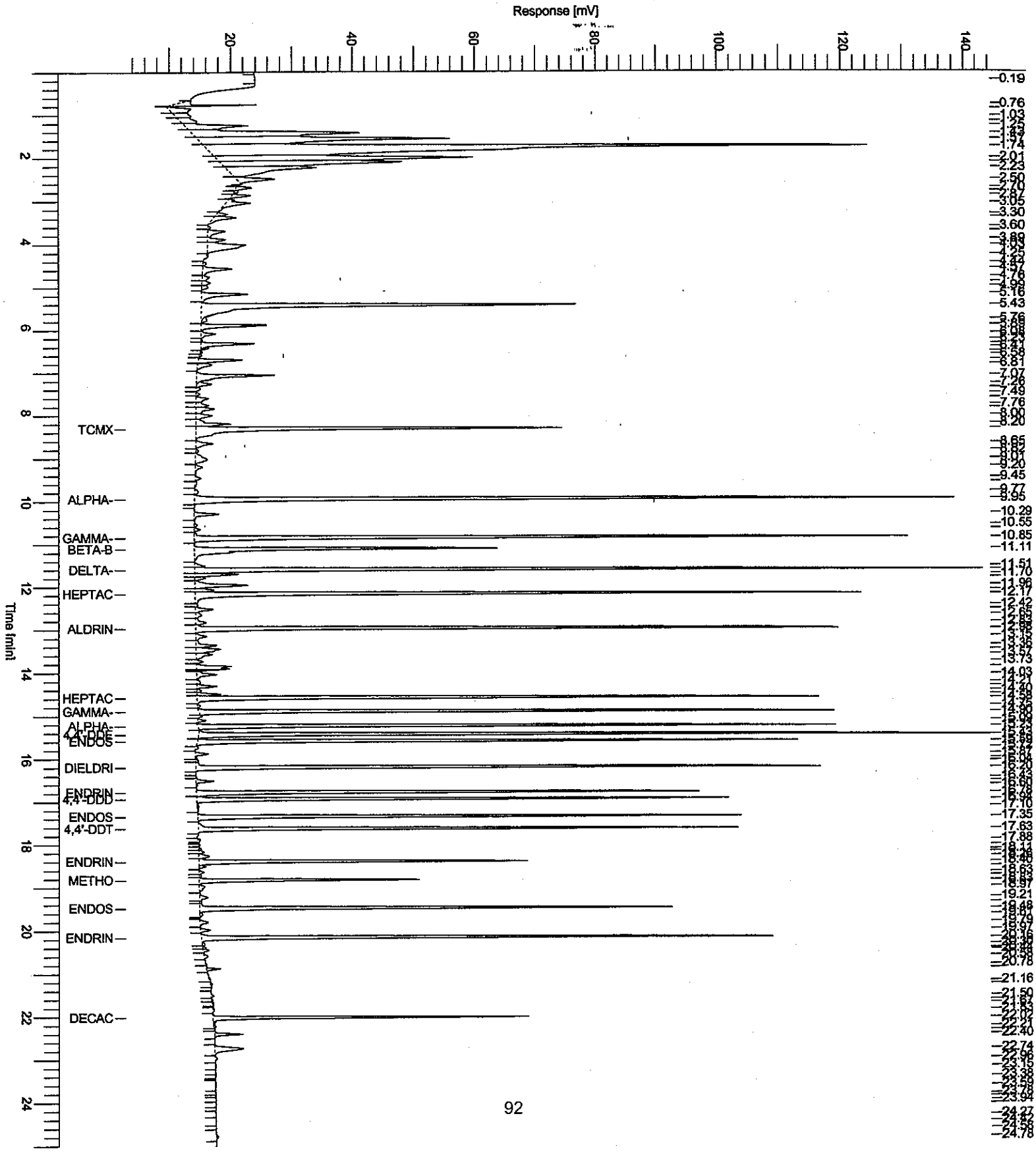
GC23 Rtx-CLPesticides

ample Name : qc263013,94186,msd Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHa\244a028.raw
ate : 9/1/04 1:57:06 PM
ethod : Time of Injection: 9/1/04 2:11:27 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.35 mV High Point : 144.52 mV
lot Offset: 2.35 mV Plot Scale: 142.2 mV



GC23 Rtx-CLPesticides

ample Name : qc263013,94186,msd Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHa\244a028.raw
ate : 9/1/04 10:33:17 AM
lethod : gc23ins Time of Injection: 9/1/04 2:11:27 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.70 mV High Point : 144.52 mV
cale Factor: 1.0 Plot Offset: 2.70 mV Plot Scale: 141.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263013,94186,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 28

Date : 9/1/04 1:55:36 PM
Data Acquisition Time : 9/1/04 2:11:27 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b028p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

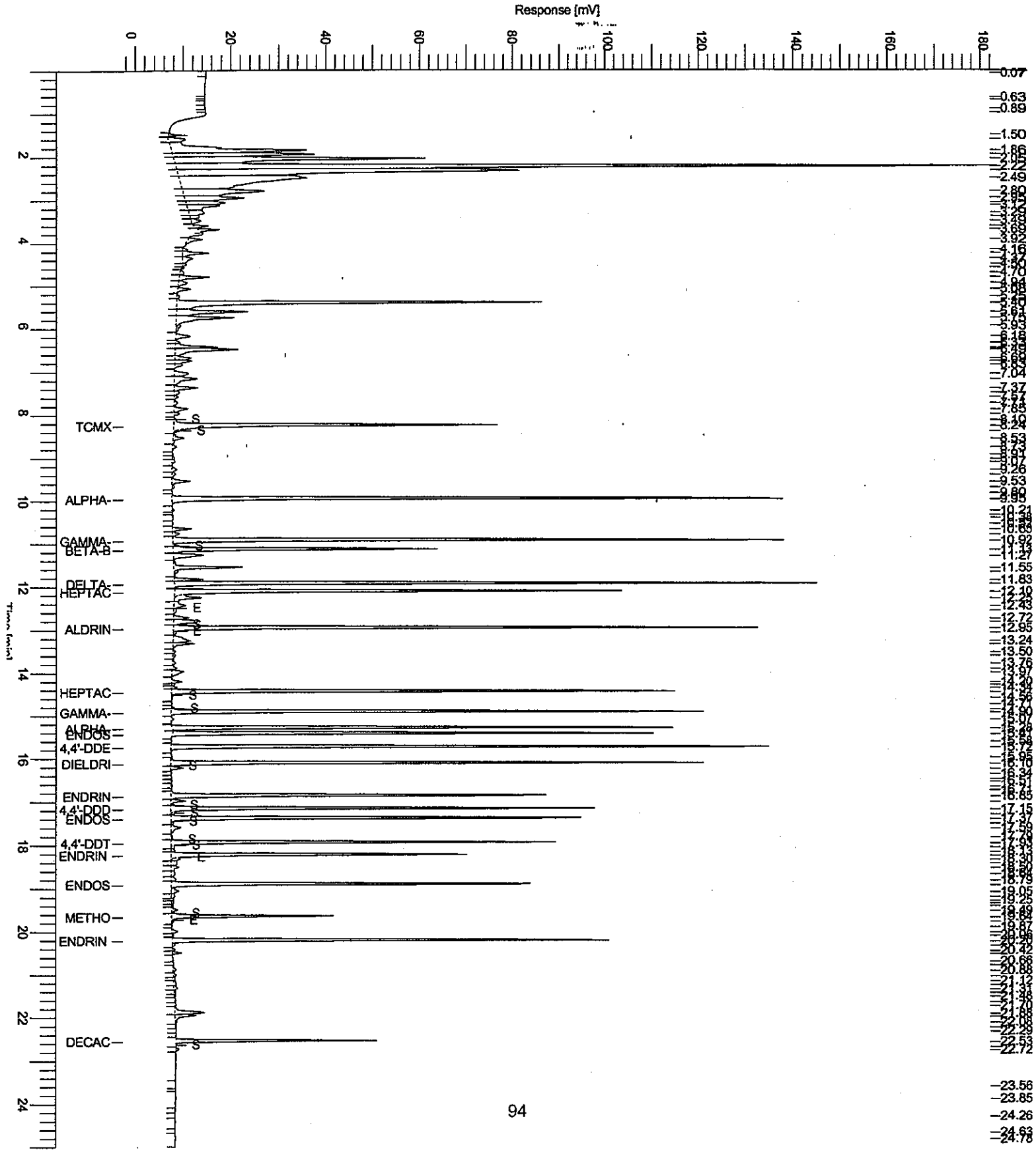
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.235	226652.80	18.7304	0.670	1	12.54
alpha-BHC	9.945	406731.01	21.8462	0.670	1	14.63
gamma-BHC	10.917	374189.60	22.2027	0.670	1	14.87
beta-BHC	11.131	166666.29	22.1071	0.670	1	14.80
delta-BHC	11.920	387387.56	21.9102	0.670	1	14.67
Heptachlor	12.103	284230.43	24.5600	0.670	1	16.44
Aldrin	12.949	345369.56	22.1732	0.670	1	14.85
Heptachlor epoxide	14.429	312094.89	21.8194	0.670	1	14.61
gamma-Chlordane	14.902	307460.93	21.1288	0.670	1	14.15
alpha-Chlordane	15.279	297759.00	21.3210	0.670	1	14.28
Endosulfan I	15.414	284388.00	21.6236	0.670	1	14.48
4,4'-DDE	15.721	348029.00	26.0765	0.670	1	17.46
Dieldrin	16.100	306208.85	22.1365	0.670	1	14.82
Endrin	16.854	234516.20	22.5528	0.670	1	15.10
4,4'-DDD	17.152	241473.35	22.8311	0.670	1	15.29
Endosulfan II	17.372	264426.40	22.2371	0.670	1	14.89
4,4'-DDT	17.931	214246.96	22.2920	0.670	1	14.93
Endrin aldehyde	18.214	183202.55	18.5646	0.670	1	12.43
Endosulfan sulfate	18.889	231585.28	20.9974	0.670	1	14.06
Methoxychlor	19.636	96986.43	24.7003	0.670	1	16.54
Endrin ketone	20.196	252328.83	21.7866	0.670	1	14.59
Decachlorobiphenyl	22.533	104738.95	16.2909	0.670	1	10.91
		5870672.87	479.8886			321.32

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\244b028p.TX0

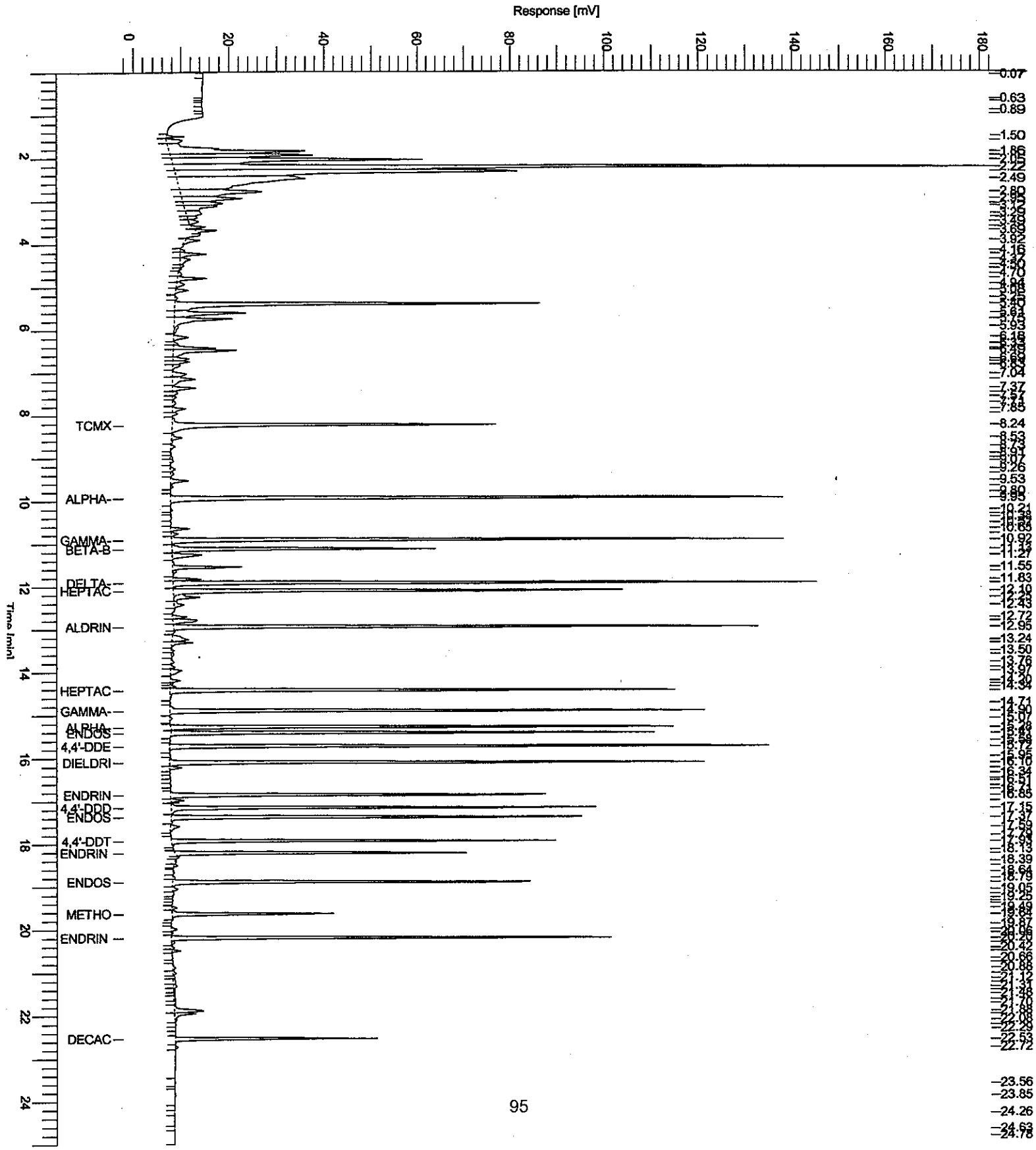
GC23 Rtx-CLPesticides2

'ample Name : qc263013,94186,msd Sample #: 94186 Page 1 of 1
leName : G:\gc23\CHb\244b028.raw
ate : 9/1/04 1:55:41 PM
ethod : Time of Injection: 9/1/04 2:11:27 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.52 mV High Point : 182.14 mV
ot Offset: -2.52 mV Plot Scale: 184.7 mV



GC23 Rtx-CLPesticides2

ample Name : qc263013,94186,msd Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b028
ate : 9/1/04 10:34:13 AM
lethod : gc23ins Time of Injection: 9/1/04 2:11:27 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.06 mV High Point : 182.14 mV
cale Factor: 1.0 Plot Offset: -2.06 mV Plot Scale: 184.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 173959-033,94186,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 9/1/04 1:02:00 PM
Data Acquisition Time : 8/31/04 7:48:48 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a015p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.324	220355.82	19.6649	0.657	1	12.92
alpha-BHC	10.011	347.00	0.0199	0.657	1	0.01
gamma-BHC	10.890	270.50	0.0172	0.657	1	0.01
beta-BHC	11.092	1544.75	0.2283	0.657	1	0.15
delta-BHC	11.584	14741.52	0.8958	0.657	1	0.59
Heptachlor	12.171	4518.38	0.3225	0.657	1	0.21
Aldrin	12.949	2697.72	0.1887	0.657	1	0.12
Heptachlor epoxide	14.640	918.23	0.0699	0.657	1	0.05
gamma-Chlordane	14.916	0.00	0.0000	0.657	1	0.00
alpha-Chlordane	15.216	950.91	0.0748	0.657	1	0.05
4,4'-DDE	15.439	38410.75	3.1487	0.657	1	2.07
Endosulfan I	15.585	956.39	0.0791	0.657	1	0.05
Dieldrin	16.217	545.83	0.0427	0.657	1	0.03
Endrin	16.791	2290.15	0.2170	0.657	1	0.14
4,4'-DDD	16.942	1702.85	0.1747	0.657	1	0.11
Endosulfan II	17.366	0.00	0.0000	0.657	1	0.00
4,4'-DDT	17.638	17557.78	1.7653	0.657	1	1.16
Endrin aldehyde	18.415	0.00	0.0000	0.657	1	0.00
Methoxychlor	18.843	1428.58	0.3468	0.657	1	0.23
Endosulfan sulfate	19.500	0.00	0.0000	0.657	1	0.00
Endrin ketone	20.170	888.66	0.0781	0.657	1	0.05
Decachlorobiphenyl	22.029	133484.56	19.4563	0.657	1	12.78
		443610.37	46.7909			30.74

9/1/04

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Report stored in ASCII file: G:\gc23\CHA\244a015p.TX0

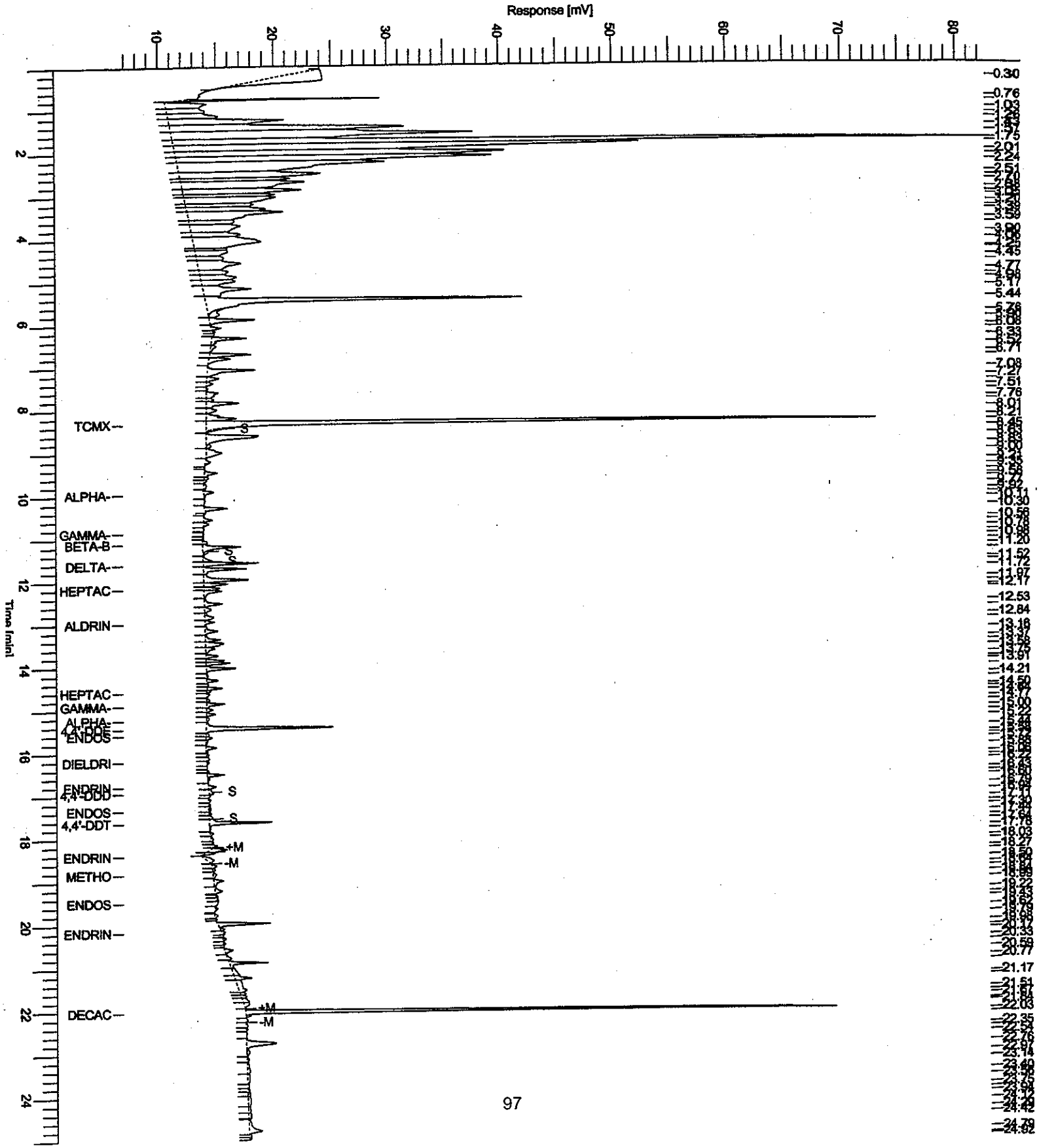
GC23 Rtx-CLPesticides

mple Name : 173959-033,94186,mss
eName : G:\gc23\CHa\244a015.raw
ite : 9/1/04 1:02:05 PM
ethod :
art Time : 0.00 min
ot Offset: 6.82 mV

Sample #: 94186

Page 1 of 1

Time of Injection: 8/31/04 7:48:48 PM
End Time : 25.00 min
Plot Scale: 75.8 mV
Low Point : 6.82 mV
High Point : 82.63 mV

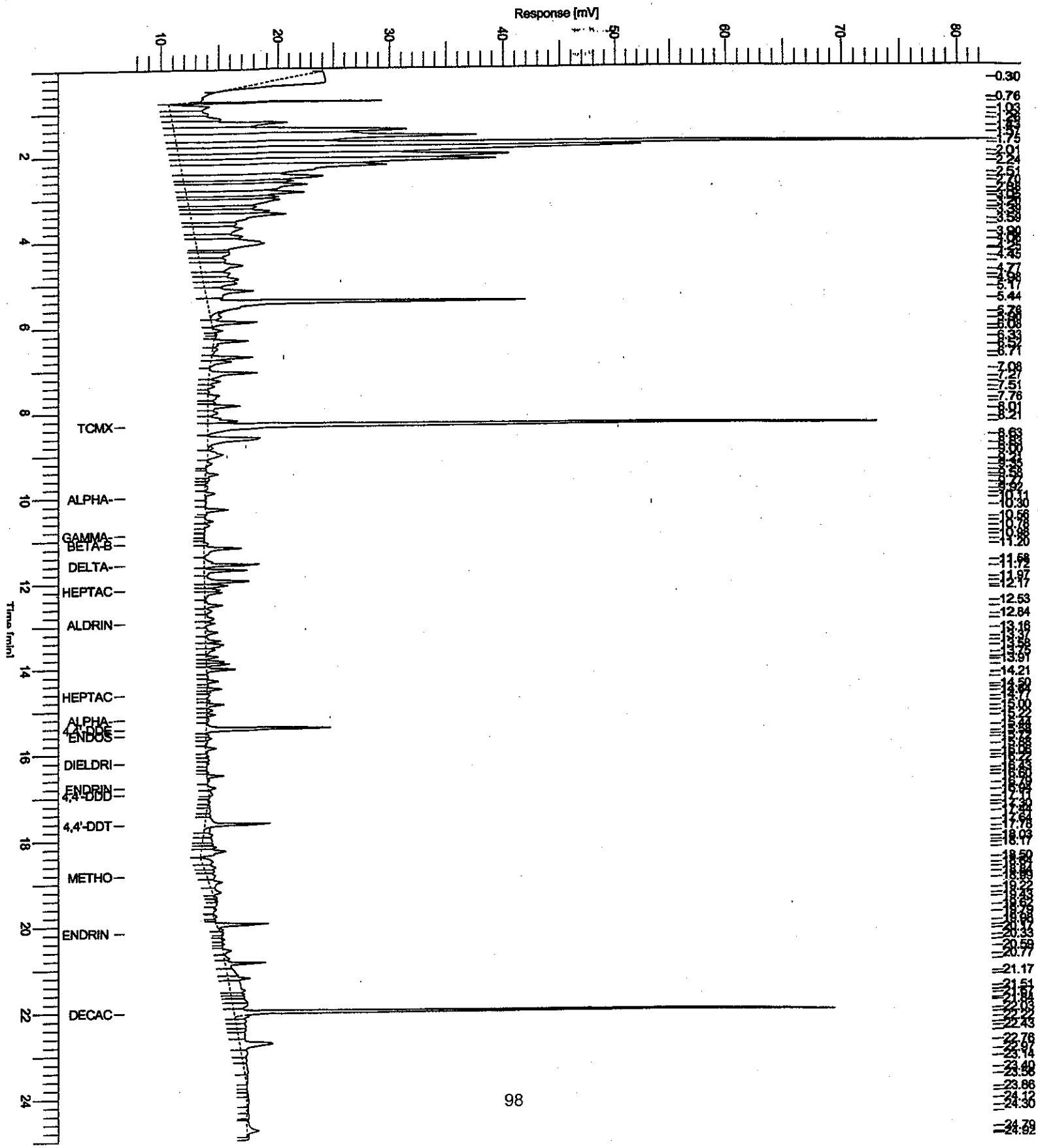


GC23 Rtx-CLPesticides

ample Name : 173959-033,94186,mss
leName : G:\gc23\CHa\244a015.raw
ate : 9/1/04 10:32:45 AM
ethod : gc23ins
art Time : 0.00 min
cale Factor: 1.0

Sample #: 94186

Time of Injection: 8/31/04 7:48:48 PM
End Time : 25.00 min
Low Point : 7.01 mV
High Point : 82.63 mV
Plot Offset: 7.01 mV
Plot Scale: 75.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 173959-033,94186,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 9/1/04 1:00:37 PM
Data Acquisition Time : 8/31/04 7:48:48 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b015p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.248	221534.74	18.3075	0.657	1	12.03
alpha-BHC	9.960	443.62	0.0238	0.657	1	0.02
gamma-BHC	10.960	399.82	0.0237	0.657	1	0.02
beta-BHC	11.147	1019.94	0.1353	0.657	1	0.09
delta-BHC	11.967	1481.00	0.0838	0.657	1	0.06
Heptachlor	12.148	4592.70	0.3968	0.657	1	0.26
Aldrin	12.975	2087.04	0.1340	0.657	1	0.09
Heptachlor epoxide	14.433	4321.65	0.3021	0.657	1	0.20
gamma-Chlordane	14.934	1327.91	0.0913	0.657	1	0.06
alpha-Chlordane	15.268	599.31	0.0429	0.657	1	0.03
Endosulfan I	15.442	1400.45	0.1065	0.657	1	0.07
4,4'-DDE	15.734	31078.00	2.3286	0.657	1	1.53
Dieldrin	16.132	0.00	0.0000	0.657	1	0.00
Endrin	16.867	1724.29	0.1658	0.657	1	0.11
4,4'-DDD	17.162	1302.71	0.1232	0.657	1	0.08
Endosulfan II	17.364	1280.49	0.1077	0.657	1	0.07
4,4'-DDT	17.939	13239.68	1.3776	0.657	1	0.91
Endrin aldehyde	18.236	4623.22	0.4685	0.657	1	0.31
Endosulfan sulfate	18.899	1996.45	0.1810	0.657	1	0.12
Methoxychlor	19.706	3400.14	0.8659	0.657	1	0.57
Endrin ketone	20.204	1484.50	0.1282	0.657	1	0.08
Decachlorobiphenyl	22.538	115223.78	17.9217	0.657	1	11.78
		414561.44	43.3158			28.46

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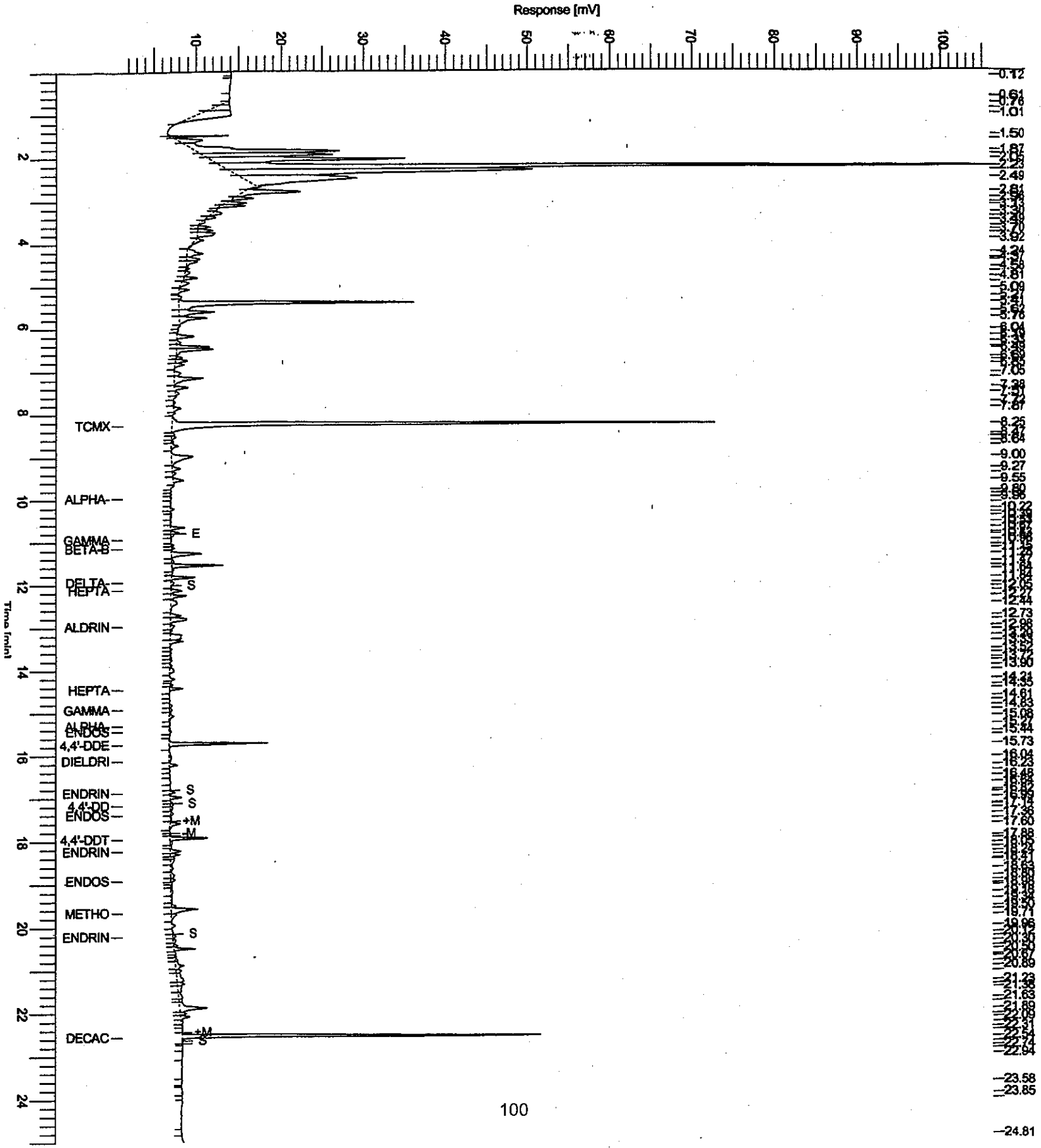
Report stored in ASCII file: G:\gc23\CHB\244b015p.TX0

GC23 Rtx-CLPesticides2

ample Name : 173959-033,94186,mss
ileName : G:\gc23\CHb\244b015.raw
ate : 9/1/04 1:00:42 PM
lethod :
tart Time : 0.00 min
lot Offset: 1.31 mV

Sample #: 94186 Page 1 of 1

Time of Injection: 8/31/04 7:46:48 PM
End Time : 25.00 min Low Point : 1.31 mV High Point : 105.94 mV
Plot Scale: 104.6 mV

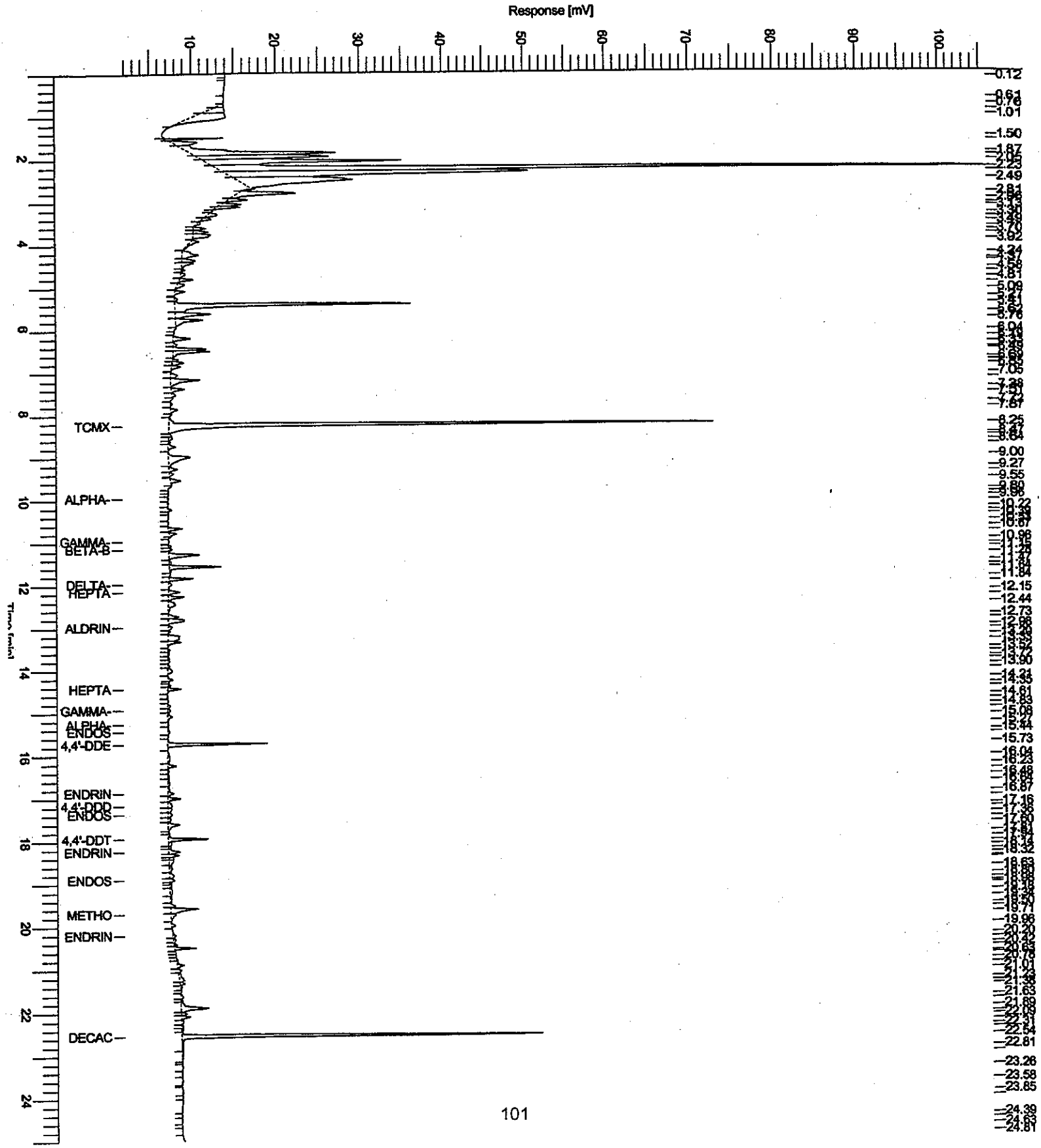


GC23 Rtx-CLPesticides2

ımple Name : 173959-033,94186,mss
eName : G:\gc23\CHb\244b015
ıte : 9/1/04 10:32:17 AM
ethod : gc23ins
art Time : 0.00 min
:ale Factor: 1.0

Sample #: 94186 Page 1 of 1

Time of Injection: 8/31/04 7:48:48 PM
End Time : 25.00 min Low Point : 1.57 mV High Point : 105.94 mV
Plot Offset: 1.57 mV Plot Scale: 104.4 mV



SPIKE USER REPORT FOR BATCH 94186
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804352004023	Seqnum : 804352004029	Seqnum : 804352004030
Filename : 244_023	Filename : 244_029	Filename : 244_030
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-002	Samplenum: QC263055	Samplenum: QC263056
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94186	Batchnum : 94186	Batchnum : 94186
Inj : 31-AUG-2004 23:44	Inj : 01-SEP-2004 02:41	Inj : 01-SEP-2004 03:10

Units : ug/Kg

MSS: 29.78 g --> 20.0 ml = 0.6716 ml/g PDF
MS: 29.70 g --> 20.0 ml = 0.6734 ml/g PDF
MSD: 29.97 g --> 20.0 ml = 0.6673 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	A	16.68	14.11	A	84	16.05	A	96	65-120	14	35	
Heptachlor	ND	A	16.68	14.28	A	85	16.01	A	96	65-135	12	35	
Aldrin	ND	A	16.68	14.70	A	87	16.36	A	98	65-130	12	35	
Dieldrin	ND	A	16.68	15.21	A	90	16.65	A	100	65-135	10	35	
Endrin	ND	A	16.68	14.89	A	88	16.27	A	98	65-135	10	35	
4,4'-DDT	ND	A	16.68	13.77	A	82	14.87	A	89	65-135	9	35	
TCMX			13.35	12.11	A	90	13.26	A	99	65-135	--		
Decachlorobiphenyl			13.35	11.84	A	88	11.92	A	89	65-135	--		

CJ 9/1/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : qc263055,94186,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 29

Date : 9/1/04 1:59:55 PM
Data Acquisition Time : 9/1/04 2:41:01 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a029p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.319	201481.11	17.9805	0.673	1	12.11
alpha-BHC	9.961	361096.32	20.6997	0.673	1	13.94
gamma-BHC	10.861	329411.15	20.9485	0.673	1	14.11
beta-BHC	11.117	152291.31	22.5116	0.673	1	15.16
delta-BHC	11.606	351484.17	21.3593	0.673	1	14.38
Heptachlor	12.170	297101.16	21.2064	0.673	1	14.28
Aldrin	12.981	312062.98	21.8302	0.673	1	14.70
Heptachlor epoxide	14.583	284620.38	21.6763	0.673	1	14.60
gamma-Chlordane	14.901	283384.97	21.1564	0.673	1	14.25
alpha-Chlordane	15.238	275577.00	21.6728	0.673	1	14.59
4,4'-DDE	15.435	271864.50	22.2861	0.673	1	15.01
Endosulfan I	15.595	270774.50	22.4089	0.673	1	15.09
Dieldrin	16.200	288507.06	22.5820	0.673	1	15.21
Endrin	16.783	233366.95	22.1092	0.673	1	14.89
4,4'-DDD	16.945	227401.58	23.3283	0.673	1	15.71
Endosulfan II	17.351	251374.00	22.7766	0.673	1	15.34
4,4'-DDT	17.634	203371.50	20.4473	0.673	1	13.77
Endrin aldehyde	18.400	125696.59	13.4670	0.673	1	9.07
Methoxychlor	18.832	102211.13	24.8124	0.673	1	16.71
Endosulfan sulfate	19.484	220193.07	22.0839	0.673	1	14.87
Endrin ketone	20.164	263851.89	23.1891	0.673	1	15.62
Decachlorobiphenyl	22.019	120668.94	17.5884	0.673	1	11.84
		5427792.26	468.1211			315.23

GL 9/1/04

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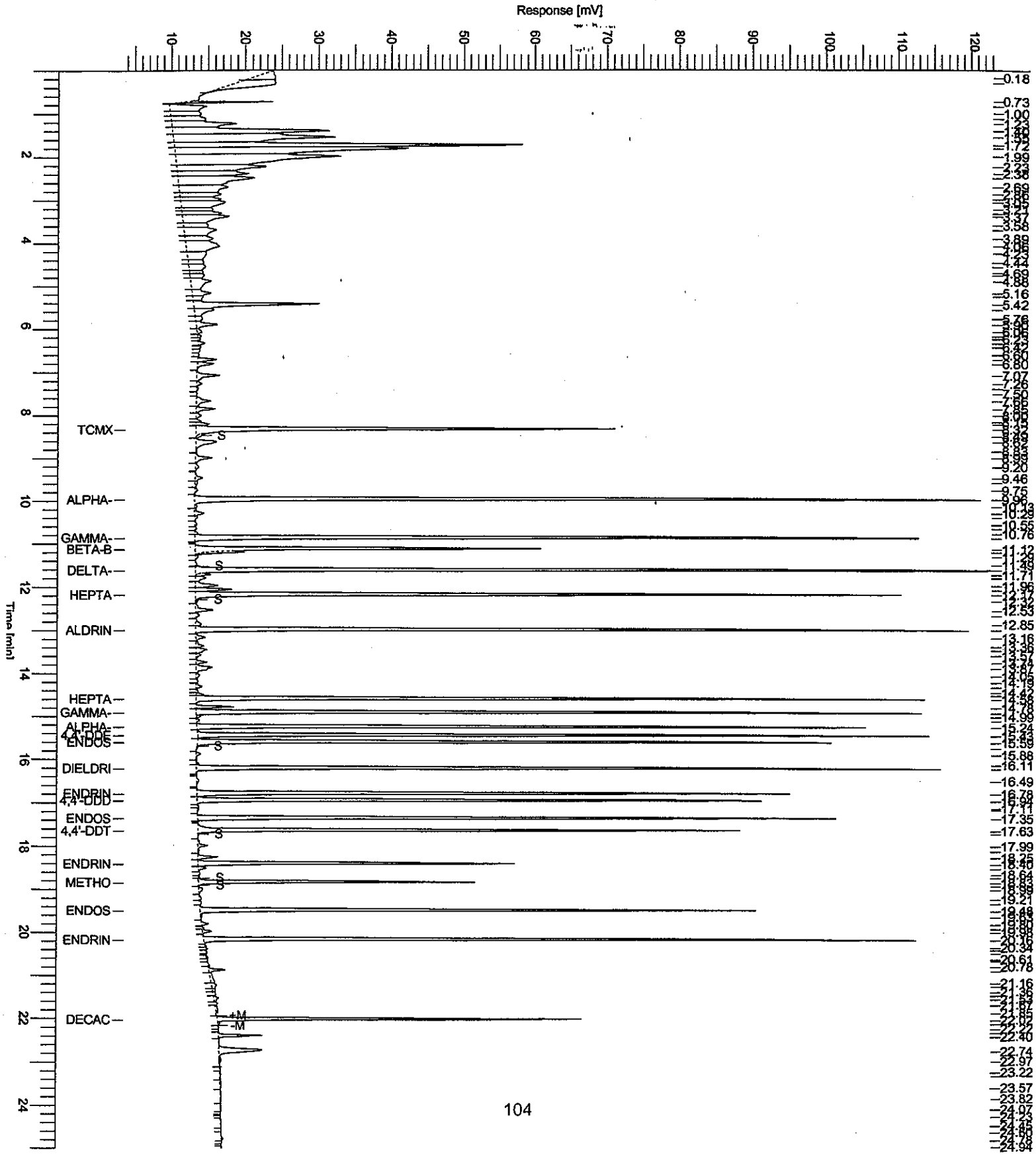
Report stored in ASCII file: G:\gc23\CHA\244a029p.TX0

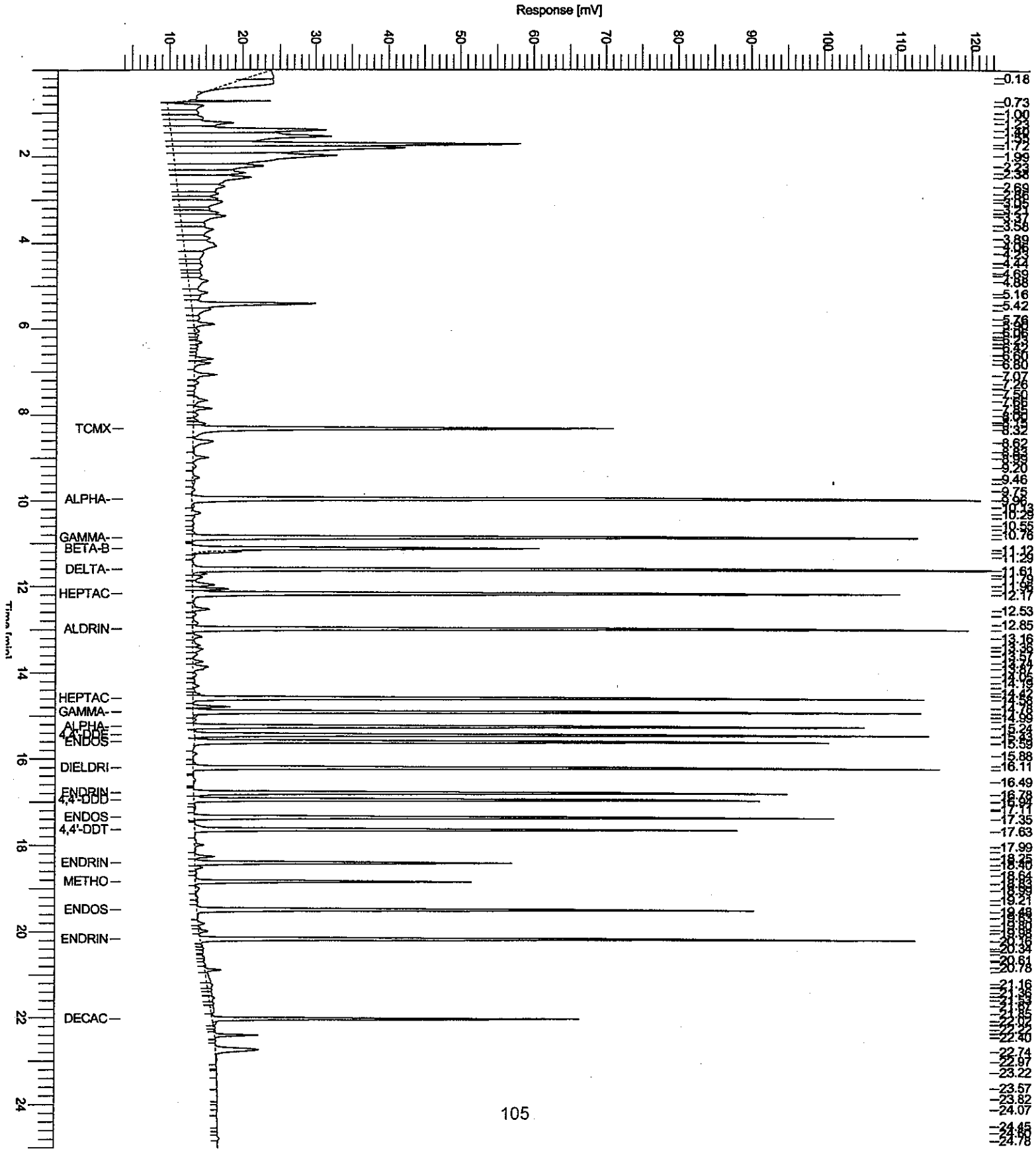
GC23 Rtx-CLPesticides

Sample Name : qc263055,94186,ms Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHa\244a029.raw
Date : 9/1/04 2:00:01 PM
Method : Time of Injection: 9/1/04 2:41:01 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 3.68 mV High Point : 123.03 mV
Plot Offset: 3.68 mV Plot Scale: 119.3 mV



GC23 Rtx-CLPesticides

ample Name : qc263055,94186,ms Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHa\244a029.raw
ate : 9/1/04 10:33:23 AM
ethod : gc23ins Time of Injection: 9/1/04 2:41:01 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.98 mV High Point : 123.03 mV
cale Factor: 1.0 Plot Offset: 3.98 mV Plot Scale: 119.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263055,94186,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 29

Date : 9/1/04 2:01:49 PM
Data Acquisition Time : 9/1/04 2:41:01 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b029p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.237	210318.16	17.3805	0.673	1	11.70
alpha-BHC	9.949	364516.42	19.5788	0.673	1	13.18
gamma-BHC	10.920	336757.19	19.9816	0.673	1	13.46
beta-BHC	11.135	150525.55	19.9662	0.673	1	13.45
delta-BHC	11.928	352865.38	19.9577	0.673	1	13.44
Heptachlor	12.106	247937.72	21.4240	0.673	1	14.43
Aldrin	12.952	316047.60	20.2907	0.673	1	13.66
Heptachlor epoxide	14.432	283569.06	19.8251	0.673	1	13.35
gamma-Chlordane	14.906	283056.68	19.4517	0.673	1	13.10
alpha-Chlordane	15.283	276493.50	19.7983	0.673	1	13.33
Endosulfan I	15.417	269024.00	20.4554	0.673	1	13.77
4,4'-DDE	15.730	266089.50	19.9371	0.673	1	13.43
Dieldrin	16.103	286242.35	20.6931	0.673	1	13.93
Endrin	16.862	219364.62	21.0957	0.673	1	14.21
4,4'-DDD	17.156	216597.54	20.4791	0.673	1	13.79
Endosulfan II	17.380	247320.00	20.7985	0.673	1	14.01
4,4'-DDT	17.934	177731.04	18.4926	0.673	1	12.45
Endrin aldehyde	18.217	136803.85	13.8628	0.673	1	9.34
Endosulfan sulfate	18.897	221286.10	20.0636	0.673	1	13.51
Methoxychlor	19.645	91511.24	23.3059	0.673	1	15.69
Endrin ketone	20.199	240892.50	20.7992	0.673	1	14.01
Decachlorobiphenyl	22.534	104233.32	16.2123	0.673	1	10.92
		5299183.31	433.8499			292.15

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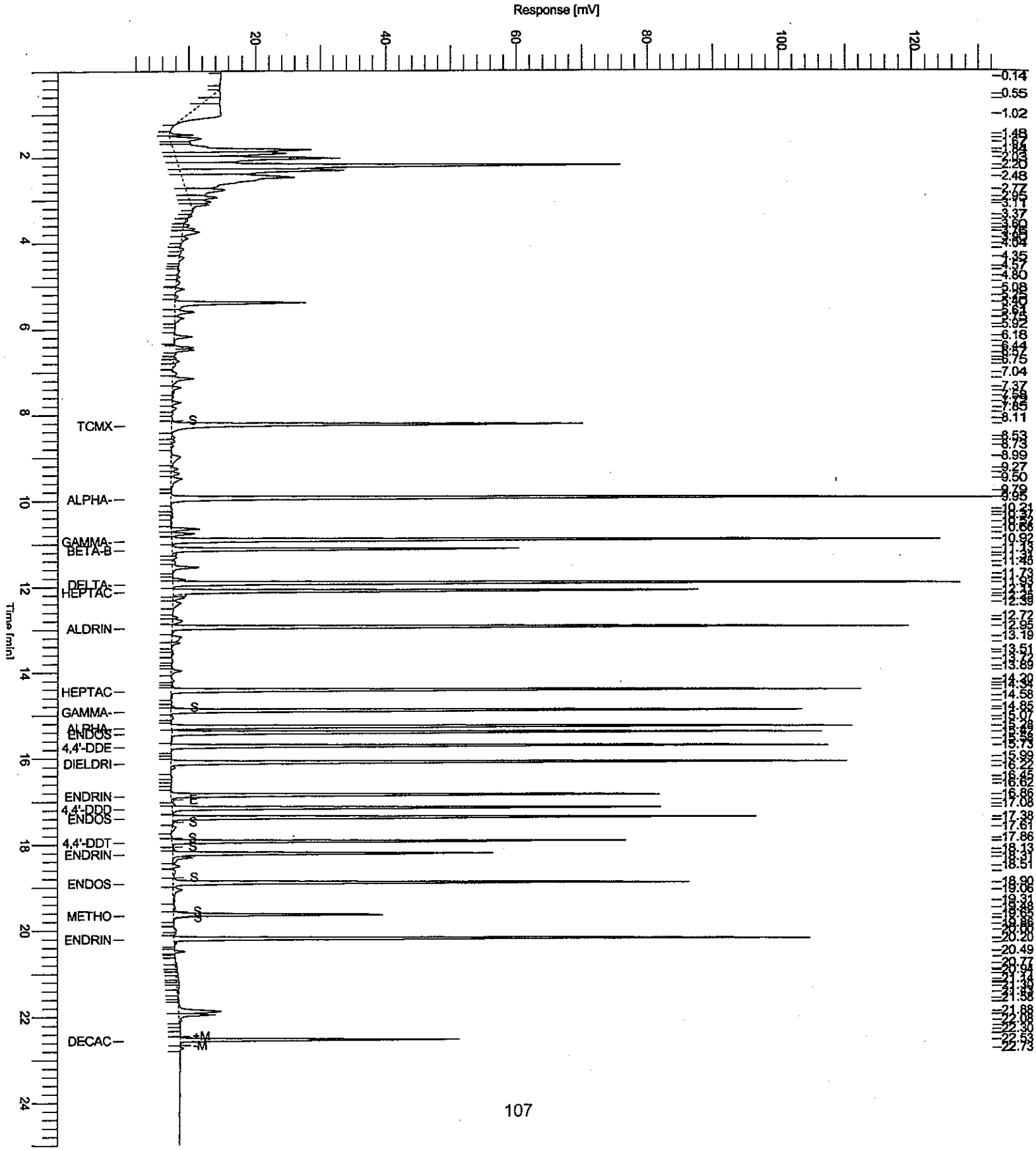
Report stored in ASCII file: G:\gc23\CHB\244b029p.TX0

GC23 Rtx-CLPesticides2

ample Name : qc263055,94186,ms Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b029.raw
ate : 9/1/04 2:01:54 PM
lethod : Time of Injection: 9/1/04 2:41:01 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.35 mV High Point : 132.10 mV
lot Offset: 0.35 mV Plot Scale: 131.7 mV

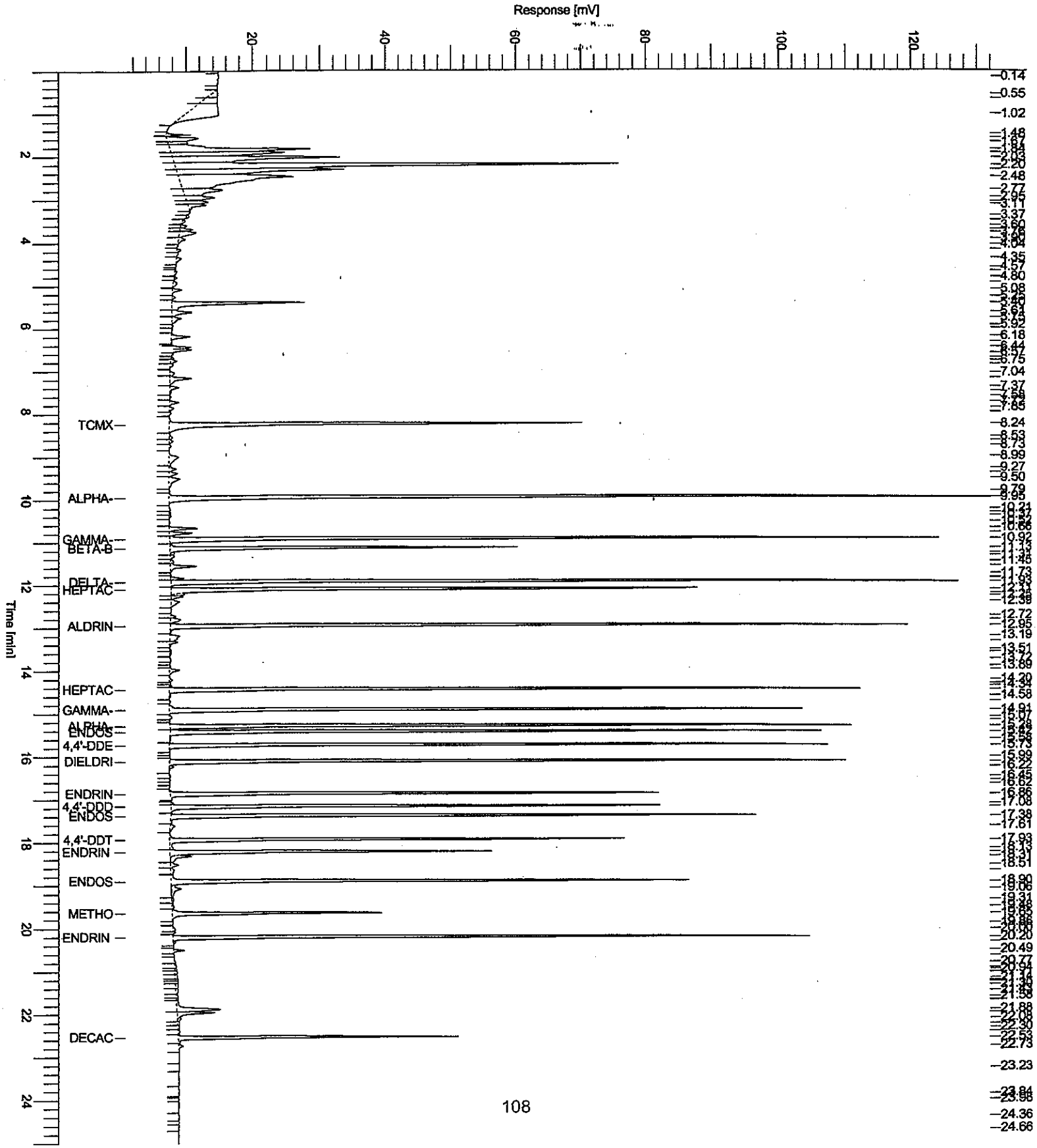


GC23 Rtx-CLPesticides2

ample Name : qc263055,94186,ms
ileName : G:\gc23\CHb\244b029
ate : 9/1/04 10:34:19 AM
lethod : gc23ins
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 94186
Page 1 of 1

Time of Injection: 9/1/04 2:41:01 AM
End Time : 25.00 min
Low Point : 0.68 mV
High Point : 132.10 mV
Plot Offset: 0.68 mV
Plot Scale: 131.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263056,94186,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 30

Date : 9/1/04 2:07:11 PM
Data Acquisition Time : 9/1/04 3:10:34 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a030p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.319	222633.02	19.8681	0.667	1	13.26
alpha-BHC	9.962	417960.56	23.9594	0.667	1	15.99
gamma-BHC	10.861	378170.00	24.0492	0.667	1	16.05
beta-BHC	11.117	165331.50	24.4392	0.667	1	16.31
delta-BHC	11.606	401804.66	24.4172	0.667	1	16.29
Heptachlor	12.170	336009.78	23.9836	0.667	1	16.01
Aldrin	12.981	350396.45	24.5118	0.667	1	16.36
Heptachlor epoxide	14.583	317075.72	24.1481	0.667	1	16.11
gamma-Chlordane	14.901	316344.90	23.6171	0.667	1	15.76
alpha-Chlordane	15.238	305892.00	24.0569	0.667	1	16.05
4,4'-DDE	15.434	301991.00	24.7558	0.667	1	16.52
Endosulfan I	15.594	296343.50	24.5250	0.667	1	16.37
Dieldrin	16.200	318728.25	24.9475	0.667	1	16.65
Endrin	16.783	257329.47	24.3795	0.667	1	16.27
4,4'-DDD	16.944	249179.17	25.5624	0.667	1	17.06
Endosulfan II	17.350	276277.00	25.0330	0.667	1	16.71
4,4'-DDT	17.634	221577.50	22.2778	0.667	1	14.87
Endrin aldehyde	18.400	137375.11	14.7183	0.667	1	9.82
Methoxychlor	18.831	112222.71	27.2428	0.667	1	18.18
Endosulfan sulfate	19.484	242131.77	24.2842	0.667	1	16.21
Endrin ketone	20.164	291100.25	25.5839	0.667	1	17.07
Decachlorobiphenyl	22.018	122515.17	17.8575	0.667	1	11.92
		6038389.50	518.2182			345.82

GP
9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a030p.TX0

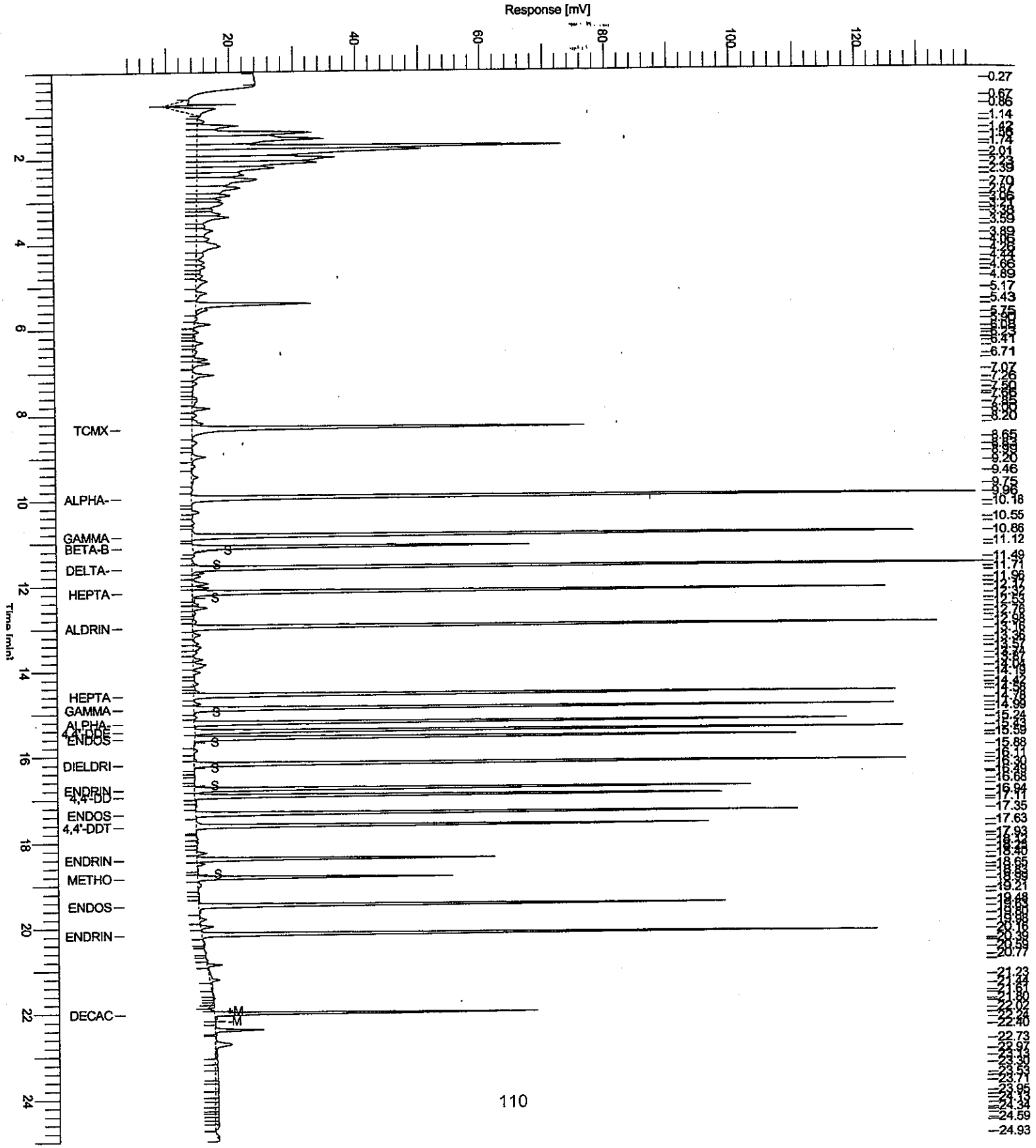
GC23 Rtx-CLPesticides

'mple Name : qc263056,94186,msd
eName : G:\gc23\CHa\244a030.raw
ate : 9/1/04 2:07:16 PM
ethod :
art Time : 0.00 min
ot Offset: 2.39 mV

Sample #: 94186

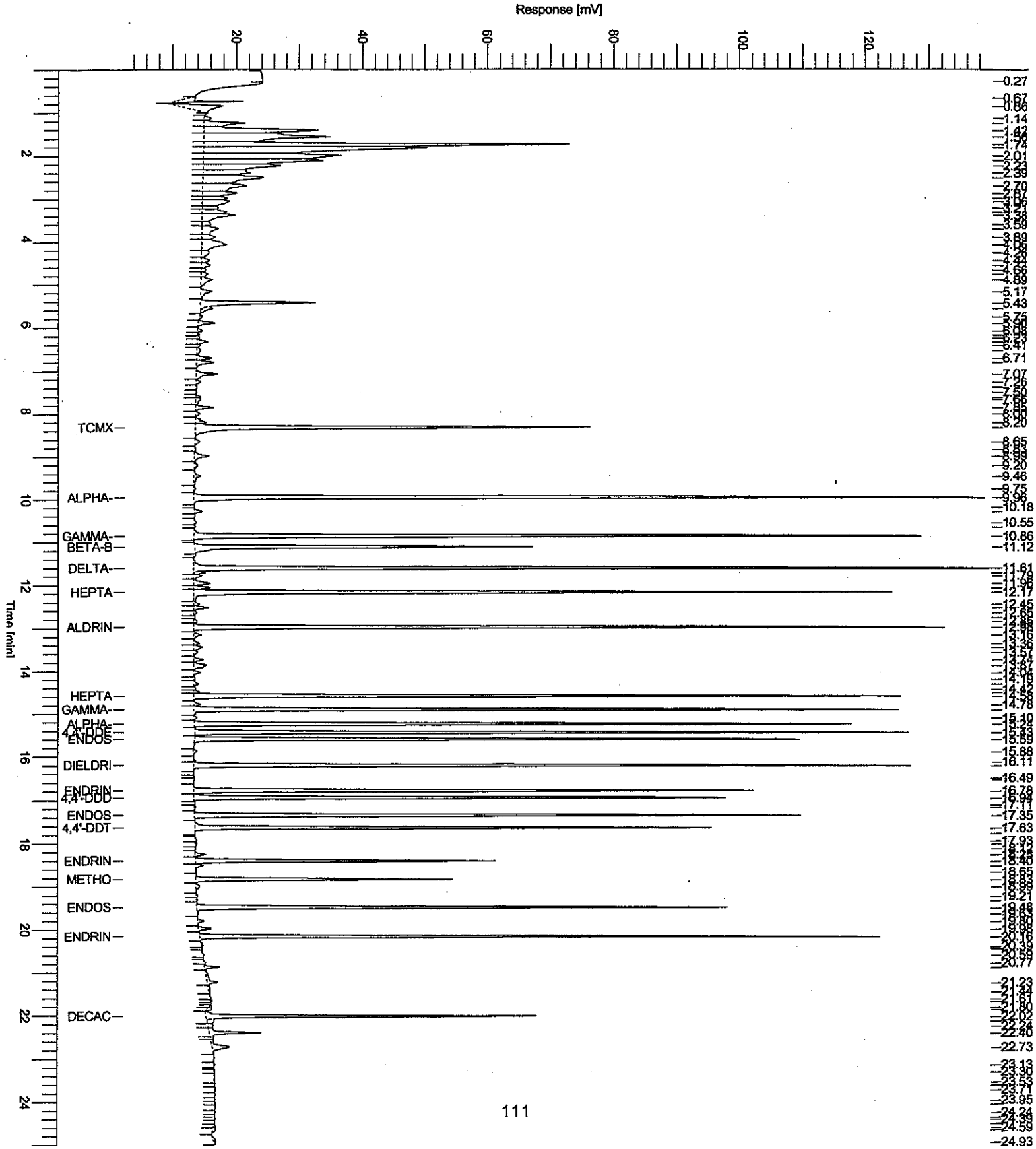
Page 1 of 1

Time of Injection: 9/1/04 3:10:34 AM
End Time : 25.00 min
Low Point : 2.39 mV
High Point : 140.00 mV
Plot Scale: 137.6 mV



GC23 Rtx-CLPesticides

ample Name : qc263056,94186,msd Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHa\244a030.raw
ate : 9/1/04 10:33:28 AM
lethod : gc23ins Time of Injection: 9/1/04 3:10:34 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.73 mV High Point : 140.00 mV
cale Factor: 1.0 Plot Offset: 2.73 mV Plot Scale: 137.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263056,94186,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 30

Date : 9/1/04 2:05:08 PM
Data Acquisition Time : 9/1/04 3:10:34 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b030p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.238	224252.91	18.5321	0.667	1	12.37
alpha-BHC	9.949	416731.42	22.3833	0.667	1	14.94
gamma-BHC	10.920	381263.55	22.6224	0.667	1	15.10
beta-BHC	11.134	168132.27	22.3016	0.667	1	14.88
delta-BHC	11.928	401567.53	22.7123	0.667	1	15.16
Heptachlor	12.105	279144.51	24.1206	0.667	1	16.10
Aldrin	12.952	348911.78	22.4006	0.667	1	14.95
Heptachlor epoxide	14.432	311902.53	21.8059	0.667	1	14.55
gamma-Chlordane	14.905	312239.89	21.4572	0.667	1	14.32
alpha-Chlordane	15.282	304503.00	21.8039	0.667	1	14.55
Endosulfan I	15.416	293034.00	22.2810	0.667	1	14.87
4,4'-DDE	15.729	293248.55	21.9720	0.667	1	14.66
Dieldrin	16.102	313530.35	22.6658	0.667	1	15.13
Endrin	16.862	237673.58	22.8564	0.667	1	15.25
4,4'-DDD	17.155	235868.95	22.3012	0.667	1	14.88
Endosulfan II	17.380	268235.46	22.5574	0.667	1	15.05
4,4'-DDT	17.933	190066.79	19.7761	0.667	1	13.20
Endrin aldehyde	18.216	150181.48	15.2184	0.667	1	10.16
Endosulfan sulfate	18.896	238331.12	21.6090	0.667	1	14.42
Methoxychlor	19.639	96853.74	24.6665	0.667	1	16.46
Endrin ketone	20.198	261039.58	22.5387	0.667	1	15.04
Decachlorobiphenyl	22.534	99664.22	15.5016	0.667	1	10.34
		5826377.22	474.0842			316.37

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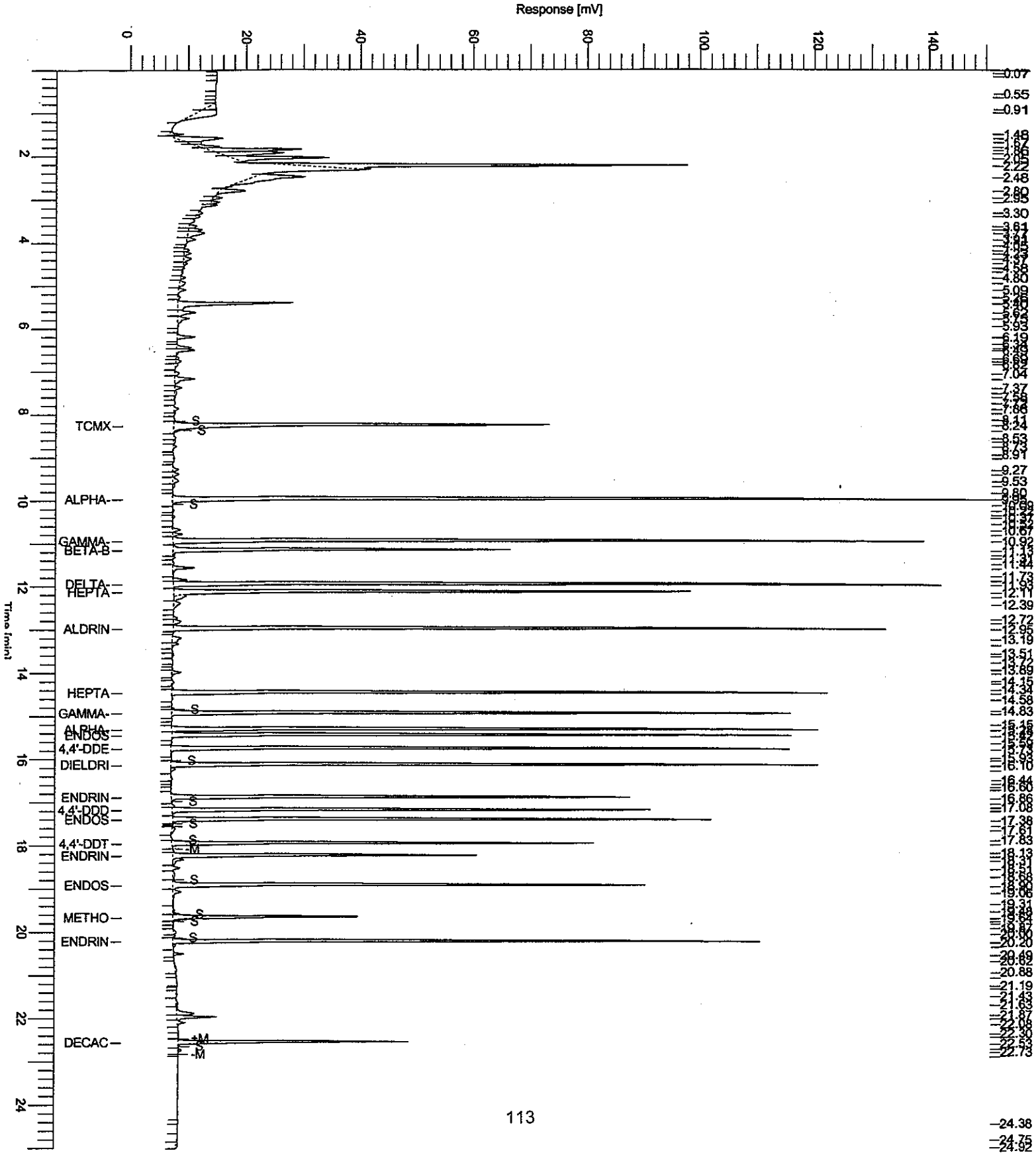
Report stored in ASCII file: G:\gc23\CHB\244b030p.TX0

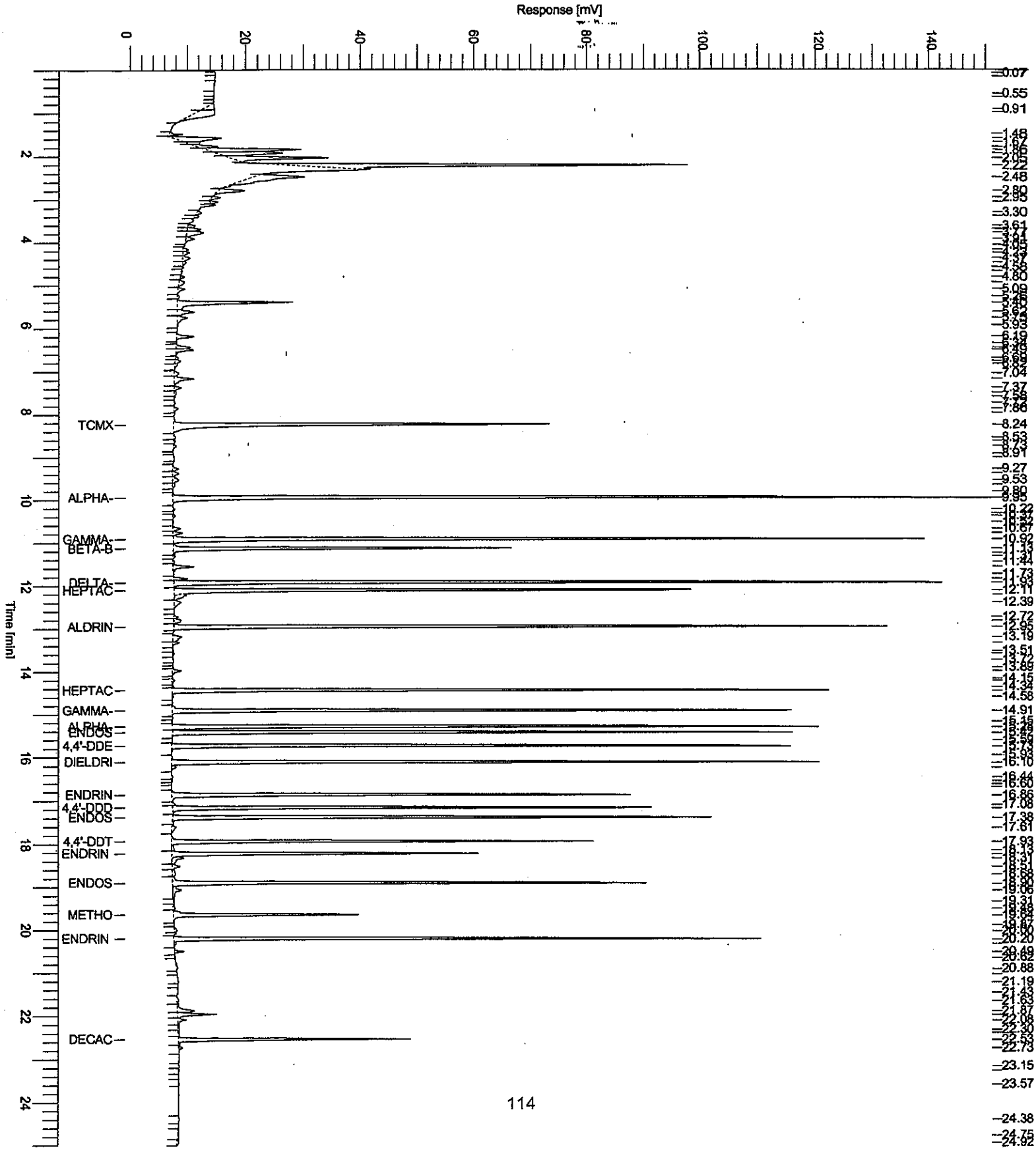
GC23 Rtx-CLPesticides2

Sample Name : qc263056,94186,msd Sample #: 94186 Page 1 of 1
FileName : G:\gc23\CHb\244b030.raw
Date : 9/1/04 2:05:13 PM
Method : Time of Injection: 9/1/04 3:10:34 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.19 mV High Point : 151.18 mV
Plot Offset: -1.19 mV Plot Scale: 152.4 mV



GC23 Rtx-CLPesticides2

'ample Name : qc263056,94186,msd Sample #: 94186 Page 1 of 1
'ileName : G:\gc23\CHb\244b030
'ate : 9/1/04 10:34:25 AM
'ethod : gc23ins Time of Injection: 9/1/04 3:10:34 AM
'tart Time : 0.00 min End Time : 25.00 min Low Point : -0.81 mV High Point : 151.18 mV
'cale Factor: 1.0 Plot Offset: -0.81 mV Plot Scale: 152.0 mV



SPIKE USER REPORT FOR BATCH 94186
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804352004026	Seqnum : 804352004031	Seqnum : 804352004032
Filename : 244_026	Filename : 244_031	Filename : 244_032
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-006	Samplenum: QC263057	Samplenum: QC263058
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94186	Batchnum : 94186	Batchnum : 94186
Inj : 01-SEP-2004 01:12	Inj : 01-SEP-2004 03:39	Inj : 01-SEP-2004 04:09
Units : ug/Kg		

MSS: 30.46 g --> 20.0 ml = 0.6566 ml/g PDF
MS: 29.72 g --> 20.0 ml = 0.6729 ml/g PDF
MSD: 29.94 g --> 20.0 ml = 0.668 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	A	16.70	16.65	A	99	18.45	A	110	65-120	11	35	
Heptachlor	ND	A	16.70	17.01	A	101	19.59	A	117	65-135	15	35	
Aldrin	ND	A	16.70	17.16	A	102	19.30	A	116	65-130	12	35	
Dieldrin	ND	A	16.70	17.31	A	103	19.66	A	118	65-135	13	35	
Endrin	ND	A	16.70	17.12	A	102	19.87	A	119	65-135	16	35	
4,4'-DDT	ND	A	16.70	16.44	A	98	19.23	A	115	65-135	16	35	
TCMX			13.36	13.56	A	101	15.12	A	113	65-135	--		
Decachlorobiphenyl			13.36	13.02	A	97	15.90	A	119	65-135	--		

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Tuscu 9/1/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc263057,94186,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 31

Date : 9/1/04 2:08:28 PM
Data Acquisition Time : 9/1/04 3:39:52 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a031p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.318	225847.94	20.1550	0.673	1	13.56
alpha-BHC	9.956	431636.50	24.7434	0.673	1	16.65
gamma-BHC	10.855	388975.19	24.7364	0.673	1	16.65
beta-BHC	11.116	170042.04	25.1355	0.673	1	16.91
delta-BHC	11.605	409670.38	24.8952	0.673	1	16.75
Heptachlor	12.169	354179.97	25.2805	0.673	1	17.01
Aldrin	12.980	364484.52	25.4973	0.673	1	17.16
Heptachlor epoxide	14.582	326517.58	24.8672	0.673	1	16.73
gamma-Chlordane	14.900	327782.76	24.4710	0.673	1	16.47
alpha-Chlordane	15.236	318508.00	25.0491	0.673	1	16.86
4,4'-DDE	15.433	323215.00	26.4956	0.673	1	17.83
Endosulfan I	15.589	306767.50	25.3877	0.673	1	17.08
Dieldrin	16.199	328708.09	25.7286	0.673	1	17.31
Endrin	16.783	268530.30	25.4406	0.673	1	17.12
4,4'-DDD	16.939	264664.25	27.1510	0.673	1	18.27
Endosulfan II	17.350	283274.35	25.6670	0.673	1	17.27
4,4'-DDT	17.634	242986.98	24.4303	0.673	1	16.44
Endrin aldehyde	18.399	167281.48	17.9224	0.673	1	12.06
Methoxychlor	18.831	118730.83	28.8227	0.673	1	19.40
Endosulfan sulfate	19.484	245247.09	24.5967	0.673	1	16.55
Endrin ketone	20.164	295018.21	25.9282	0.673	1	17.45
Decachlorobiphenyl	22.018	132701.42	19.3422	0.673	1	13.02
		6294770.39	541.7436			364.57

9/1/04

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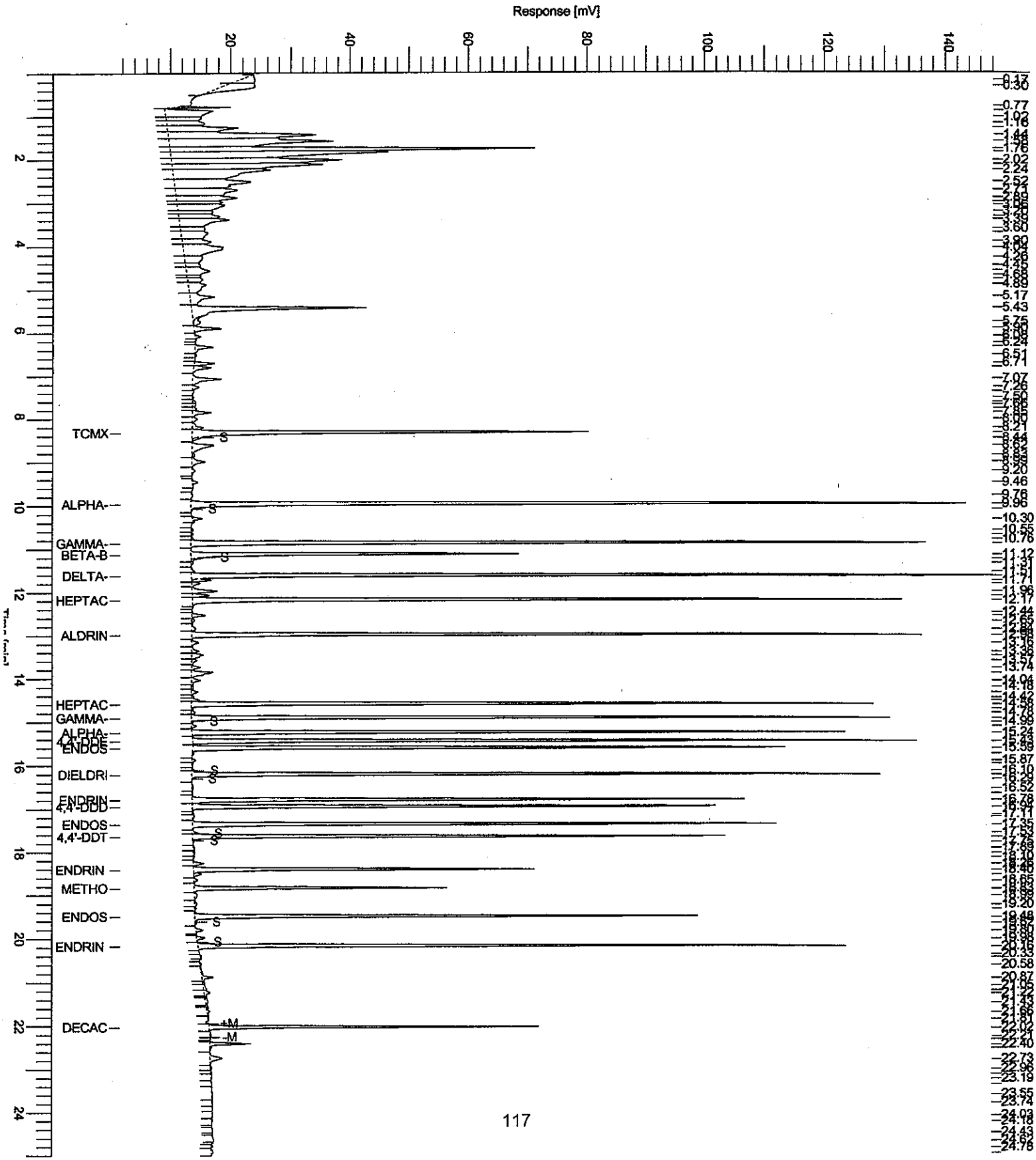
Report stored in ASCII file: G:\gc23\CHA\244a031p.TX0

GC23 Rtx-CLPesticides

ample Name : qc263057,94186,ms Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHa\244a031.raw
ate : 9/1/04 2:08:34 PM
lethod : Time of Injection: 9/1/04 3:39:52 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.65 mV High Point : 148.06 mV
lot Offset: 1.65 mV Plot Scale: 146.4 mV

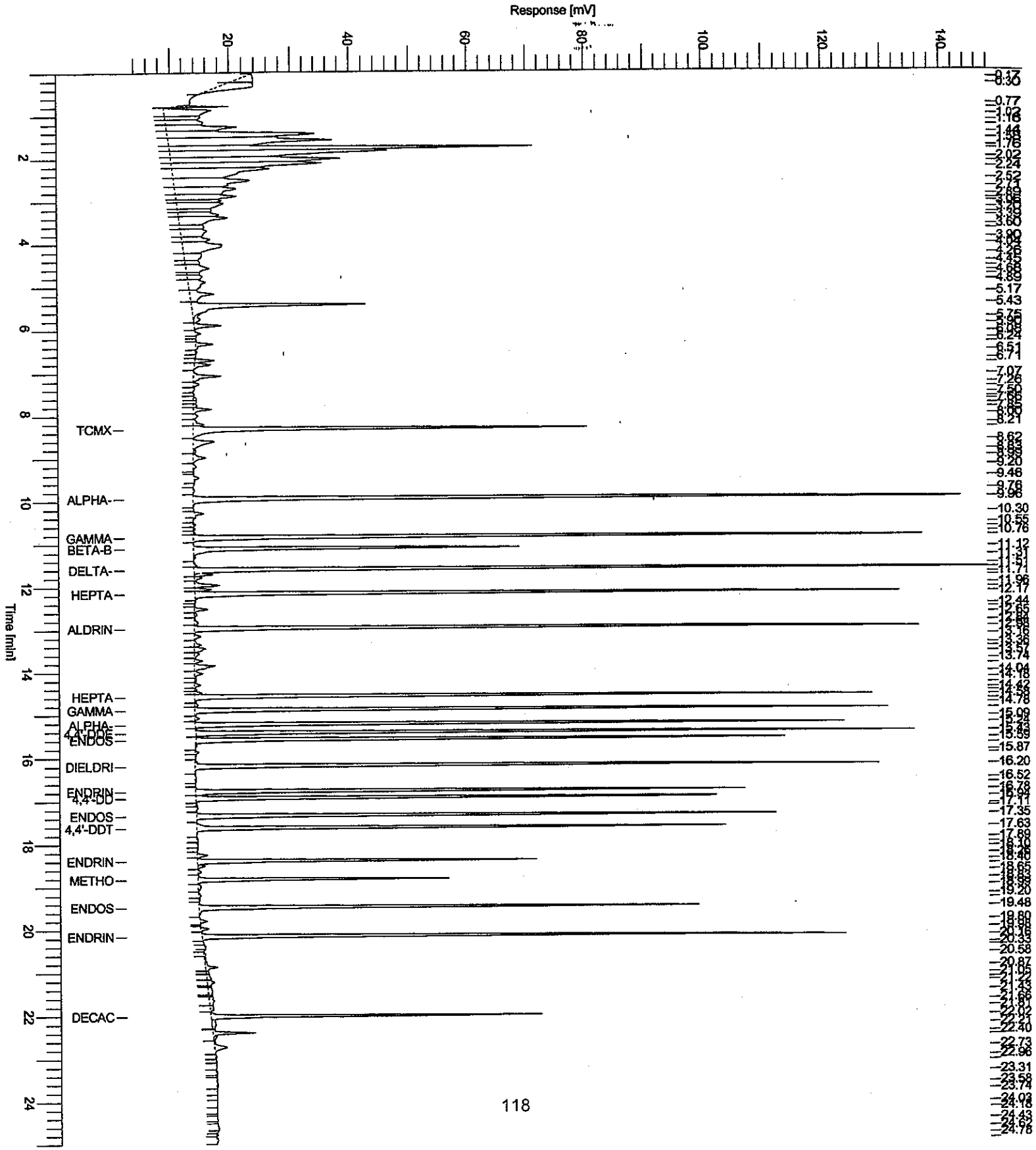


GC23 Rtx-CLPesticides

ample Name : qc263057,94186,ms
leName : G:\gc23\CHa\244a031.raw
ate : 9/1/04 10:33:34 AM
ethod : gc23ins
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 94186
Page 1 of 1

Time of Injection: 9/1/04 3:39:52 AM
End Time : 25.00 min
Low Point : 2.01 mV
High Point : 148.06 mV
Plot Offset: 2.01 mV
Plot Scale: 146.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263057,94186,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 31

Date : 9/1/04 2:10:32 PM
Data Acquisition Time : 9/1/04 3:39:52 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b031p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.239	239187.01	19.7662	0.673	1	13.30
alpha-BHC	9.949	434135.45	23.3181	0.673	1	15.69
gamma-BHC	10.920	393408.04	23.3430	0.673	1	15.71
beta-BHC	11.134	172460.48	22.8757	0.673	1	15.39
delta-BHC	11.928	403573.35	22.8257	0.673	1	15.36
Heptachlor	12.105	291420.24	25.1813	0.673	1	16.95
Aldrin	12.952	357736.29	22.9671	0.673	1	15.46
Heptachlor epoxide	14.432	314104.92	21.9599	0.673	1	14.78
gamma-Chlordane	14.904	311810.52	21.4277	0.673	1	14.42
alpha-Chlordane	15.282	303308.00	21.7183	0.673	1	14.62
Endosulfan I	15.416	289606.00	22.0204	0.673	1	14.82
4,4'-DDE	15.729	297954.27	22.3246	0.673	1	15.02
Dieldrin	16.102	308581.37	22.3080	0.673	1	15.01
Endrin	16.861	229563.27	22.0765	0.673	1	14.86
4,4'-DDD	17.155	232285.20	21.9624	0.673	1	14.78
Endosulfan II	17.380	256390.00	21.5613	0.673	1	14.51
4,4'-DDT	17.934	188713.84	19.6354	0.673	1	13.21
Endrin aldehyde	18.216	162235.38	16.4399	0.673	1	11.06
Endosulfan sulfate	18.896	222235.94	20.1497	0.673	1	13.56
Methoxychlor	19.639	89330.16	22.7504	0.673	1	15.31
Endrin ketone	20.198	242912.50	20.9736	0.673	1	14.11
Decachlorobiphenyl	22.583	565.00	0.0879	0.673	1	0.06
		5741517.24	457.6732			307.99

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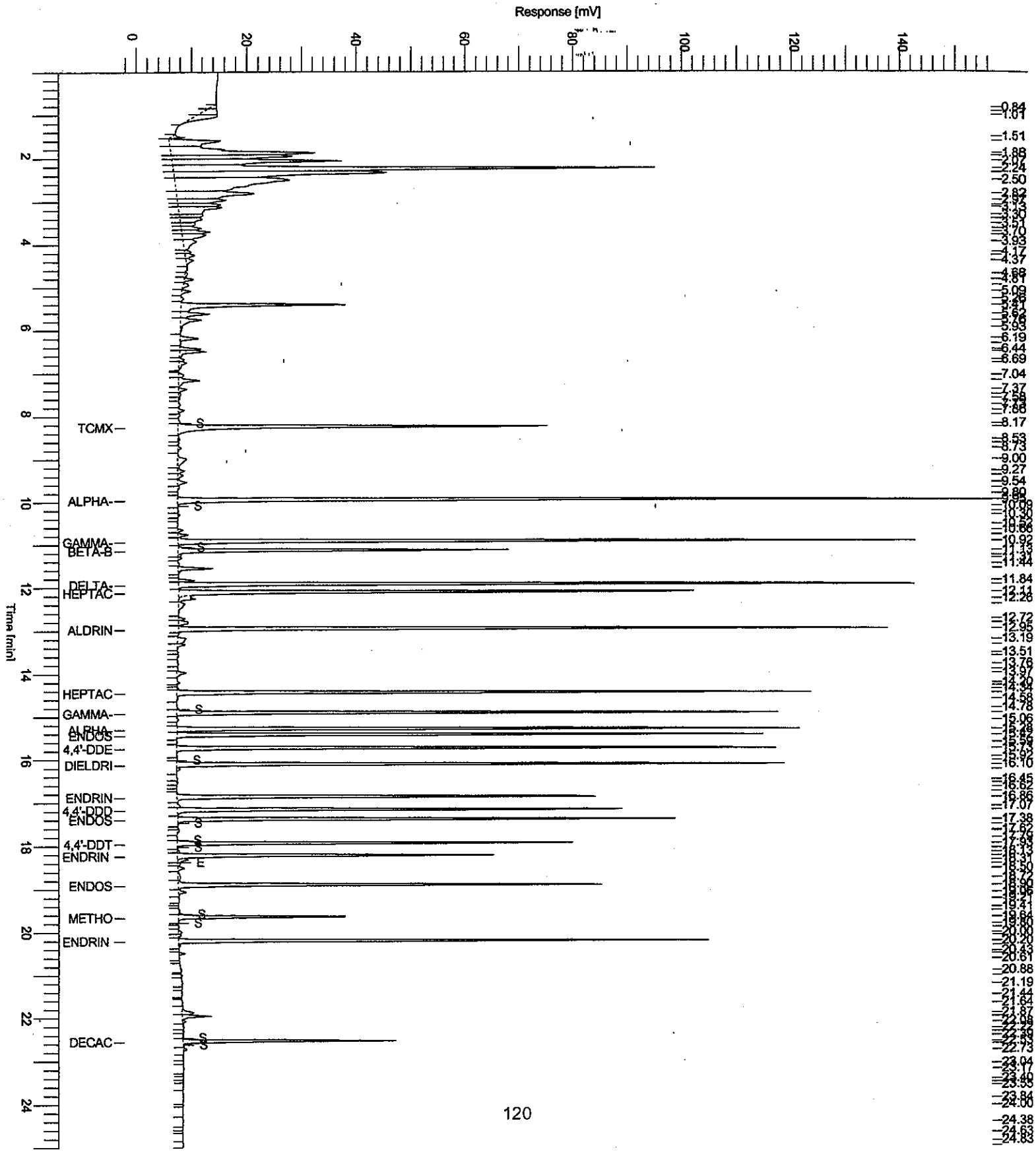
Report stored in ASCII file: G:\gc23\CHB\244b031p.TX0

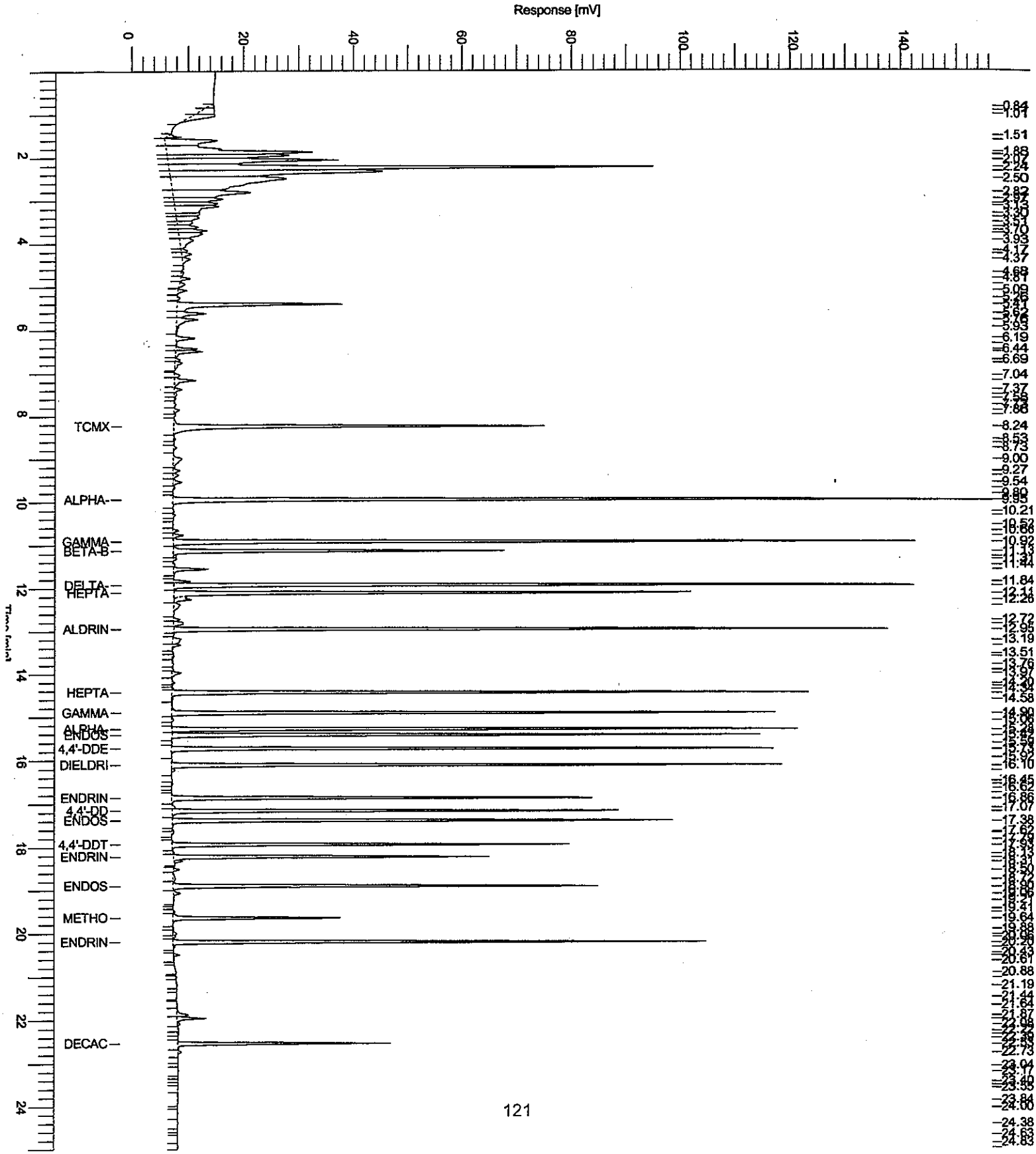
GC23 Rtx-CLPesticides2

ample Name : qc263057,94186,ms Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b031.raw
ate : 9/1/04 2:10:37 PM
lethod : Time of Injection: 9/1/04 3:39:52 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.10 mV High Point : 156.72 mV
lot Offset: -2.10 mV Plot Scale: 158.8 mV



GC23 Rtx-CLPesticides2

ample Name : qc263057,94186,ms Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b031
ate : 9/1/04 10:34:30 AM
lethod : gc23ins Time of Injection: 9/1/04 3:39:52 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.70 mV High Point : 156.72 mV
cale Factor: 1.0 Plot Offset: -1.70 mV Plot Scale: 158.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263058,94186,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 32

Date : 9/1/04 2:14:05 PM
Data Acquisition Time : 9/1/04 4:09:25 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a032p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.320	253653.56	22.6364	0.668	1	15.12
alpha-BHC	9.962	486511.33	27.8891	0.668	1	18.63
gamma-BHC	10.861	434285.05	27.6178	0.668	1	18.45
beta-BHC	11.118	190254.47	28.1233	0.668	1	18.79
delta-BHC	11.606	464011.50	28.1975	0.668	1	18.84
Heptachlor	12.170	410914.89	29.3301	0.668	1	19.59
Aldrin	12.981	413007.91	28.8918	0.668	1	19.30
Heptachlor epoxide	14.583	374601.54	28.5292	0.668	1	19.06
gamma-Chlordane	14.901	374221.81	27.9379	0.668	1	18.66
alpha-Chlordane	15.238	361667.00	28.4434	0.668	1	19.00
4,4'-DDE	15.434	375991.00	30.8219	0.668	1	20.59
Endosulfan I	15.595	348646.50	28.8535	0.668	1	19.27
Dieldrin	16.200	376061.57	29.4351	0.668	1	19.66
Endrin	16.783	313924.37	29.7413	0.668	1	19.87
4,4'-DDD	16.945	302108.65	30.9923	0.668	1	20.70
Endosulfan II	17.350	328828.26	29.7946	0.668	1	19.90
4,4'-DDT	17.634	286330.78	28.7882	0.668	1	19.23
Endrin aldehyde	18.400	177386.28	19.0050	0.668	1	12.70
Methoxychlor	18.832	141303.30	34.3023	0.668	1	22.91
Endosulfan sulfate	19.484	287728.60	28.8573	0.668	1	19.28
Endrin ketone	20.164	349953.62	30.7563	0.668	1	20.55
Decachlorobiphenyl	22.019	163297.07	23.8017	0.668	1	15.90
		7214689.05	622.7459			416.00

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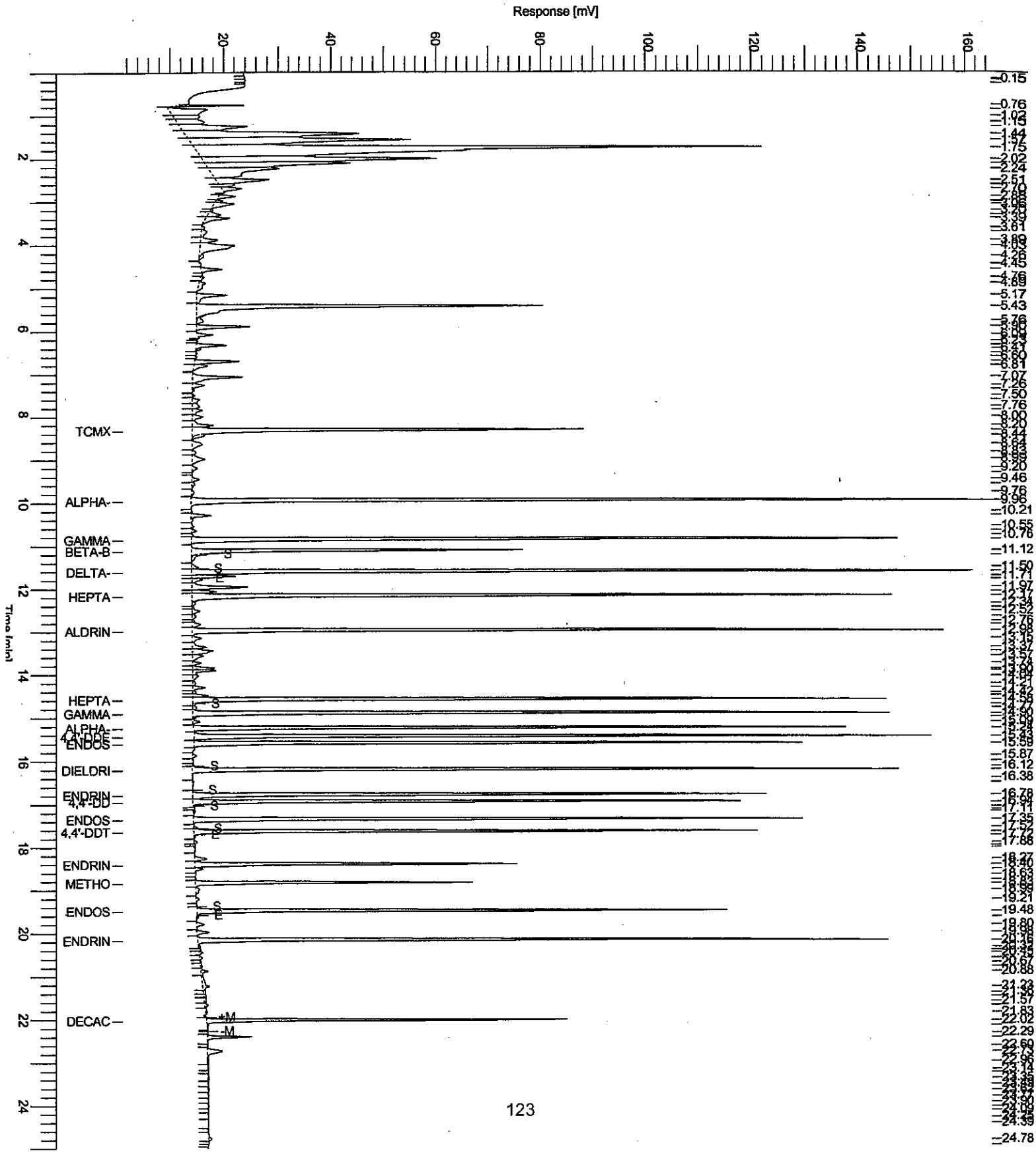
9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a032p.TX0

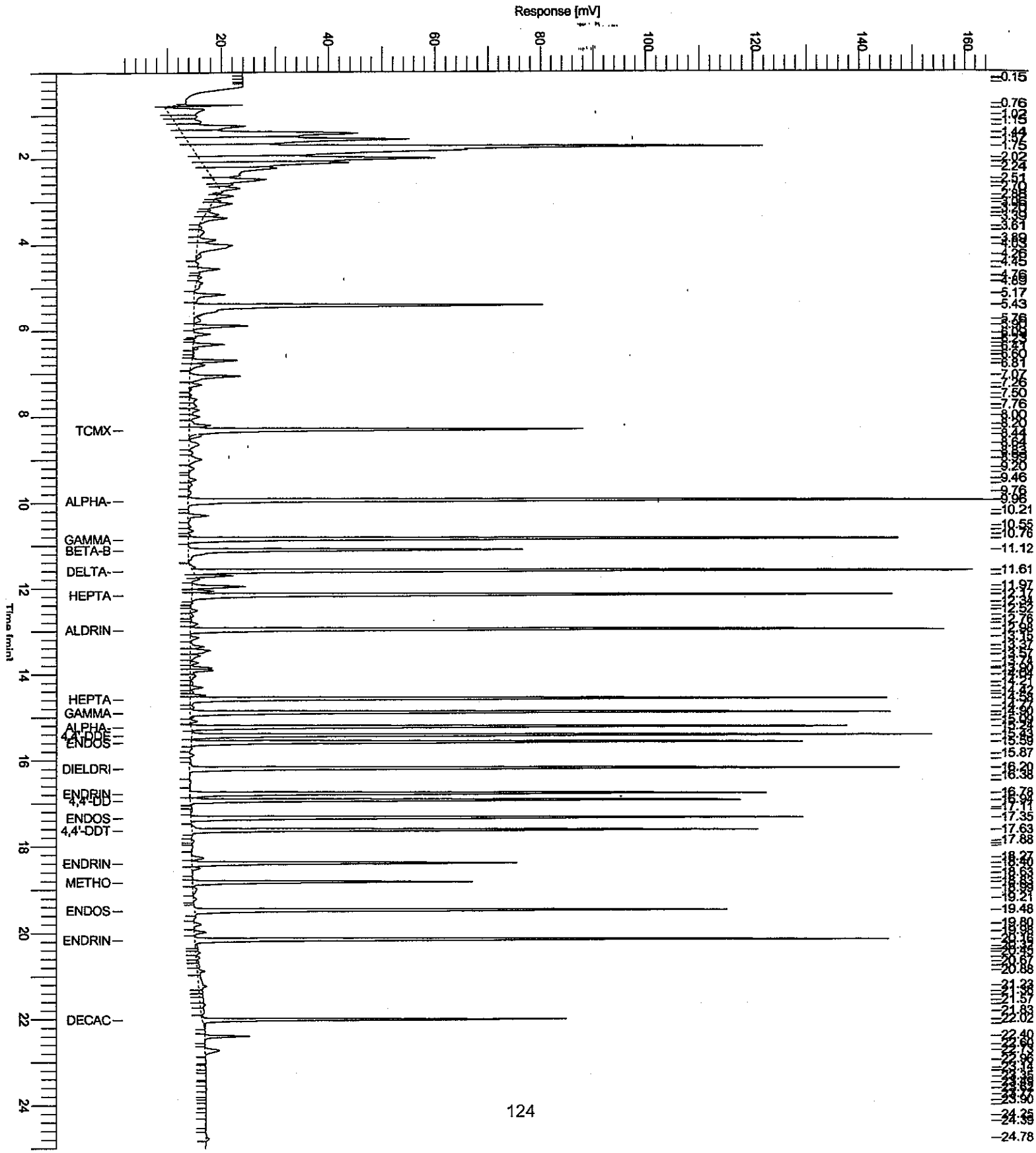
GC23 Rtx-CLPesticides

ample Name : qc263058,94186,msd Sample #: 94186 Page 1 of 1
leName : G:\gc23\CHa\244a032.raw
ate : 9/1/04 2:14:10 PM
ethod : Time of Injection: 9/1/04 4:09:25 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 1.19 mV High Point : 164.98 mV
ot Offset: 1.19 mV Plot Scale: 163.8 mV



GC23 Rtx-CLPesticides

'ample Name : qc263058,94186,msd Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHa\244a032.raw
ate : 9/1/04 10:33:40 AM
lethod : gc23ins Time of Injection: 9/1/04 4:09:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.60 mV High Point : 164.98 mV
cale Factor: 1.0 Plot Offset: 1.60 mV Plot Scale: 163.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc263058,94186,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 32

Date : 9/1/04 2:12:02 PM
Data Acquisition Time : 9/1/04 4:09:25 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b032p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

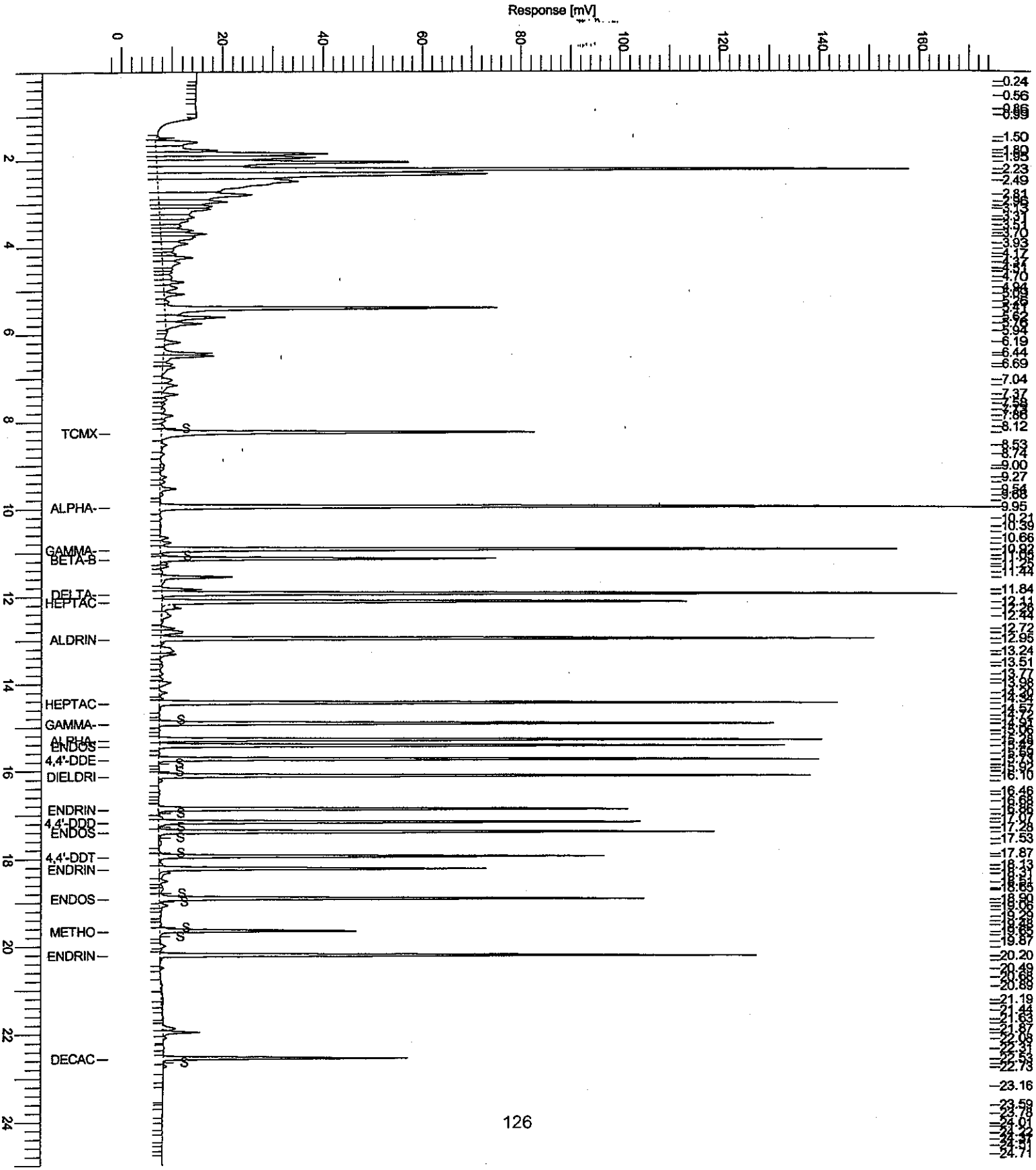
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.245	267663.02	22.1195	0.668	1	14.78
alpha-BHC	9.950	480047.47	25.7842	0.668	1	17.22
gamma-BHC	10.921	437624.02	25.9666	0.668	1	17.35
beta-BHC	11.136	193235.48	25.6313	0.668	1	17.12
delta-BHC	11.930	460000.61	26.0172	0.668	1	17.38
Heptachlor	12.111	333967.66	28.8578	0.668	1	19.28
Aldrin	12.953	405288.71	26.0201	0.668	1	17.38
Heptachlor epoxide	14.433	365130.20	25.5272	0.668	1	17.05
gamma-Chlordane	14.906	361283.39	24.8275	0.668	1	16.58
alpha-Chlordane	15.283	352508.00	25.2413	0.668	1	16.86
Endosulfan I	15.417	336504.00	25.5863	0.668	1	17.09
4,4'-DDE	15.730	347860.10	26.0639	0.668	1	17.41
Dieldrin	16.103	360598.28	26.0684	0.668	1	17.41
Endrin	16.863	272626.43	26.2178	0.668	1	17.51
4,4'-DDD	17.156	277957.77	26.2807	0.668	1	17.56
Endosulfan II	17.380	309290.88	26.0100	0.668	1	17.37
4,4'-DDT	17.934	230847.27	24.0193	0.668	1	16.04
Endrin aldehyde	18.217	182484.71	18.4918	0.668	1	12.35
Endosulfan sulfate	18.898	273555.05	24.8027	0.668	1	16.57
Methoxychlor	19.645	114527.21	29.1676	0.668	1	19.48
Endrin ketone	20.198	298729.50	25.7930	0.668	1	17.23
Decachlorobiphenyl	22.535	121626.28	18.9175	0.668	1	12.64
		6783356.04	553.4115			369.68

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\244b032p.TX0

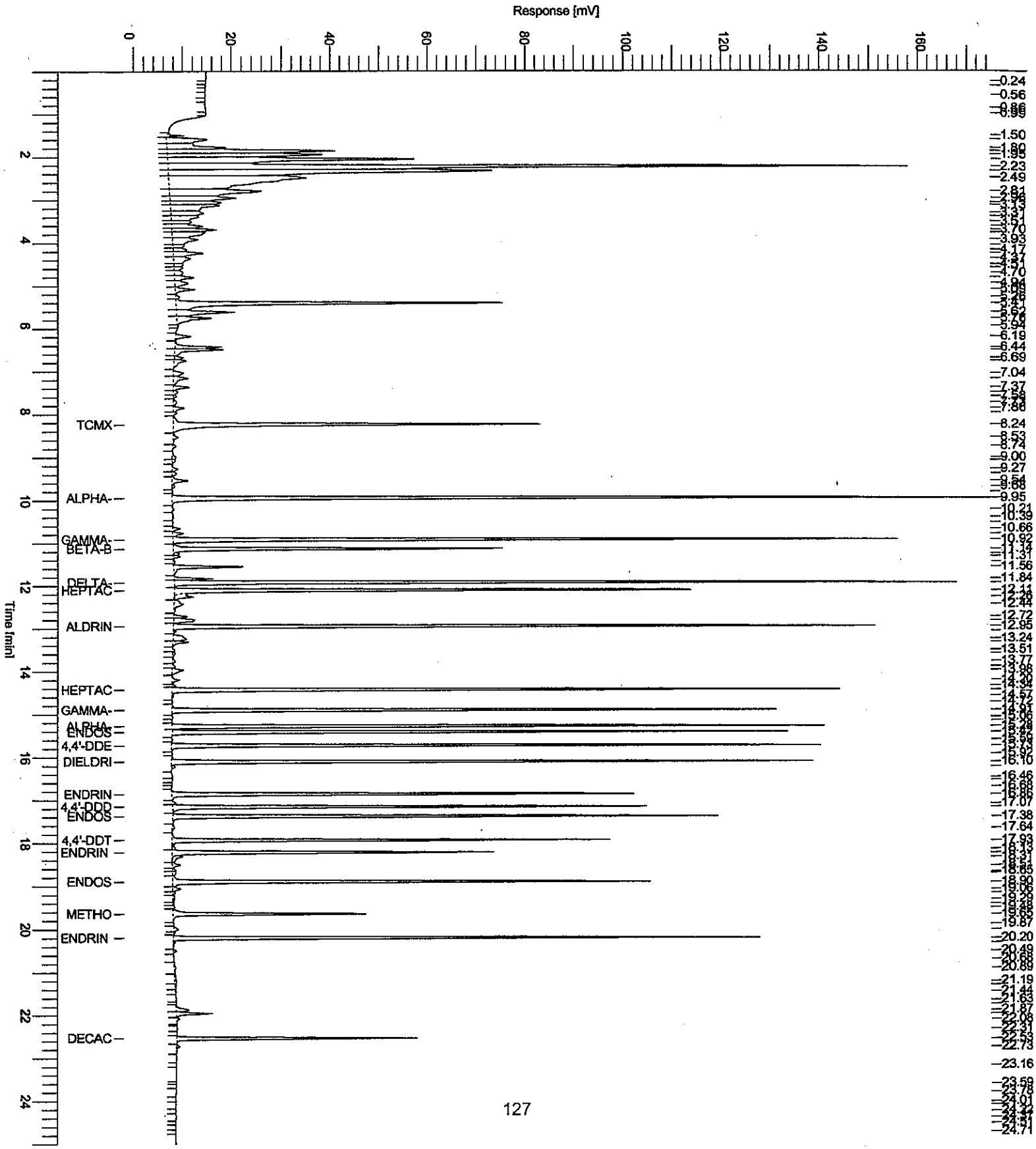
GC23 Rtx-CLPesticides2

ample Name : qc263058,94186,msd Sample #: 94186 Page 1 of 1
leName : G:\gc23\CHb\244b032.raw
ate : 9/1/04 2:12:07 PM
ethod : Time of Injection: 9/1/04 4:09:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.22 mV High Point : 174.81 mV
lot Offset: -2.22 mV Plot Scale: 177.0 mV



GC23 Rtx-CLPesticides2

ample Name : qc263058,94186,msd Sample #: 94186 Page 1 of 1
ileName : G:\gc23\CHb\244b032
ate : 9/1/04 10:34:36 AM
lethod : gc23ins Time of Injection: 9/1/04 4:09:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.78 mV High Point : 174.81 mV
cale Factor: 1.0 Plot Offset: -1.78 mV Plot Scale: 176.6 mV



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

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TREADWELL & ROLLO

Laboratory Number 174320
Organochlorine Pesticides

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX118[0.5]	174320-002
BB3EX120[0.5]	174320-004
DUP083004A	174320-005
BB3EX121[0.5]	174320-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/10/04
Operations Manager

Signature: _____ Date: 9/9/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

Initial Calibration Data

Turbochrom Method File G:\gc23\Files\8081a233.mth
Printed by : analyst on: 8/20/04 3:30:03 PM
Created by : analyst on: 8/20/04 1:48:11 PM
Edited by : analyst on: 8/20/04 3:29:18 PM
Number of Times Edited : 2
Number of Times Calibrated : 130
Description: GC23 .

/mm 8/20/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 8.333 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	57295.02	15336.18	----------	----------	1
2	10.0000	109084.50	28871.83	----------	----------	1
3	20.0000	241998.33	63096.50	----------	----------	1
4	40.0000	426007.07	115883.26	----------	----------	1
5	50.0000	496316.86	131734.40	----------	----------	1
6	100.0000	1034414.50	285757.18	----------	----------	1
7	200.0000	2037195.00	549872.05	----------	----------	1

Average Calibration Factor = 11205.536514 (%RSD = 13.80)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 9.972 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	43570.00	12366.63	----------	----------	1
2	5.0000	83249.33	24097.18	----------	----------	1
3	10.0000	185740.30	53738.24	----------	----------	1
4	20.0000	326124.00	93792.19	----------	----------	1
5	25.0000	390140.50	112108.83	----------	----------	1
6	50.0000	820240.46	245711.01	----------	----------	1
7	100.0000	1678596.80	491495.83	----------	----------	1

Average Calibration Factor = 17444.498947 (%RSD = 12.15)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.872 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	40042.76	11626.21	----------	----------	1
2	5.0000	75626.50	22496.18	----------	----------	1
3	10.0000	169142.00	50141.55	----------	----------	1
4	20.0000	293479.50	86277.90	----------	----------	1
5	25.0000	348877.00	102451.61	----------	----------	1
6	50.0000	718033.00	217083.38	----------	----------	1
7	100.0000	1502318.00	454597.87	----------	----------	1

Average Calibration Factor = 15724.825090 (%RSD = 13.45)

beta-BHC

Component Type : Single Peak Component
Retention Time : 11.132 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	18964.90	5750.44	----------	----------	1
2	5.0000	34184.50	10341.16	----------	----------	1
3	10.0000	74193.88	22278.96	----------	----------	1
4	20.0000	125591.00	38451.39	----------	----------	1
5	25.0000	147231.00	44542.19	----------	----------	1
6	50.0000	284242.92	86244.03	----------	----------	1
7	100.0000	576267.00	177403.86	----------	----------	1

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Average Calibration Factor = 6765.008038 (%RSD = 20.01)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.621 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	47262.80	14099.54	----------	----------	1
2	5.0000	80342.32	24847.69	----------	----------	1
3	10.0000	172652.98	52957.96	----------	----------	1
4	20.0000	298388.74	89739.15	----------	----------	1
5	25.0000	349447.86	106265.71	----------	----------	1
6	50.0000	717043.80	224532.89	----------	----------	1
7	100.0000	1498717.77	467418.43	----------	----------	1

Average Calibration Factor = 16455.794996 (%RSD = 20.37)

Heptachlor
Component Type : Single Peak Component
Retention Time : 12.185 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	34855.00	10628.03	----------	----------	1
2	5.0000	66914.50	20723.30	----------	----------	1
3	10.0000	150812.55	45976.41	----------	----------	1
4	20.0000	265144.00	81112.34	----------	----------	1
5	25.0000	312548.34	96151.01	----------	----------	1
6	50.0000	644053.00	201724.65	----------	----------	1
7	100.0000	1353812.35	424996.14	----------	----------	1

Average Calibration Factor = 14009.996022 (%RSD = 12.21)

Aldrin
Component Type : Single Peak Component
Retention Time : 12.996 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	36516.10	11547.37	----------	----------	1
2	5.0000	69757.43	21128.37	----------	----------	1
3	10.0000	152620.14	46095.38	----------	----------	1
4	20.0000	268129.22	84381.72	----------	----------	1
5	25.0000	318471.16	98772.18	----------	----------	1
6	50.0000	647841.50	200941.64	----------	----------	1
7	100.0000	1349138.66	422651.47	----------	----------	1

Average Calibration Factor = 14295.010739 (%RSD = 13.52)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 14.598 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	34387.00	11113.42	----------	----------	1
2	5.0000	64980.00	20455.53	----------	----------	1
3	10.0000	140807.00	44250.47	----------	----------	1
4	20.0000	246926.17	78869.76	----------	----------	1
5	25.0000	291725.53	92918.18	----------	----------	1
6	50.0000	581586.30	186250.49	----------	----------	1
7	100.0000	1199606.00	388541.94	----------	----------	1

Average Calibration Factor = 13130.473630 (%RSD = 15.14)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 14.916 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	36016.00	11043.28	----------	----------	1
2	5.0000	65924.00	20709.57	----------	----------	1
3	10.0000	140515.50	44936.61	----------	----------	1
4	20.0000	248717.00	79226.06	----------	----------	1
5	25.0000	294483.00	94670.20	----------	----------	1
6	50.0000	594275.81	192439.99	----------	----------	1
7	100.0000	1241829.00	408855.97	----------	----------	1

Average Calibration Factor = 13394.760888 (%RSD = 16.28)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 15.253 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	33263.00	10321.71	----------	----------	1
2	5.0000	62806.19	20258.61	----------	----------	1
3	10.0000	135726.00	43865.15	----------	----------	1
4	20.0000	238066.00	74097.59	----------	----------	1
5	25.0000	281391.00	89032.02	----------	----------	1
6	50.0000	563837.00	182004.36	----------	----------	1
7	100.0000	1180633.00	385121.69	----------	----------	1

Average Calibration Factor = 12715.335326 (%RSD = 14.98)

4,4'-DDE

Component Type : Single Peak Component
Retention Time : 15.450 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	61085.00	20374.72	----------	----------	1
2	10.0000	116857.50	38906.93	----------	----------	1
3	20.0000	257117.00	85915.63	----------	----------	1
4	40.0000	473670.50	158723.56	----------	----------	1
5	50.0000	561592.00	190202.85	----------	----------	1
6	100.0000	1169072.00	399049.91	----------	----------	1
7	200.0000	2162911.50	715210.79	----------	----------	1

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Average Calibration Factor = 12198.818571 (%RSD = 12.24)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 15.607 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	31917.00	9892.64	----------	----------	1
2	5.0000	60164.30	18796.26	----------	----------	1
3	10.0000	131127.50	40571.76	----------	----------	1
4	20.0000	226533.00	69856.79	----------	----------	1
5	25.0000	265883.00	80599.97	----------	----------	1
6	50.0000	527446.00	166061.70	----------	----------	1
7	100.0000	1096826.50	348737.38	----------	----------	1

Average Calibration Factor = 12083.323629 (%RSD = 15.97)

Dieldrin
Component Type : Single Peak Component
Retention Time : 16.215 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	65114.29	20916.17	----------	----------	1
2	10.0000	124164.09	39295.63	----------	----------	1
3	20.0000	271842.00	85825.46	----------	----------	1
4	40.0000	492190.42	159449.78	----------	----------	1
5	50.0000	588737.77	190729.36	----------	----------	1
6	100.0000	1199978.77	389689.33	----------	----------	1
7	200.0000	2213090.44	689589.09	----------	----------	1

Average Calibration Factor = 12775.976878 (%RSD = 13.49)

Endrin
Component Type : Single Peak Component
Retention Time : 16.799 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	54301.23	17228.20	----------	----------	1
2	10.0000	102070.00	32100.01	----------	----------	1
3	20.0000	232375.50	73084.00	----------	----------	1
4	40.0000	399390.50	127676.27	----------	----------	1
5	50.0000	469316.50	150696.24	----------	----------	1
6	100.0000	980149.00	319274.75	----------	----------	1
7	200.0000	1862518.00	588916.57	----------	----------	1

Average Calibration Factor = 10555.179156 (%RSD = 14.56)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 16.956 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	49733.79	16158.64	----------	----------	1
2	10.0000	93381.00	31121.10	----------	----------	1
3	20.0000	205070.00	67738.84	----------	----------	1
4	40.0000	374455.00	122291.23	----------	----------	1
5	50.0000	438615.00	141580.16	----------	----------	1
6	100.0000	925388.00	310365.59	----------	----------	1
7	200.0000	1764493.00	575777.24	----------	----------	1

Average Calibration Factor = 9747.866649 (%RSD = 13.14)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 17.366 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	59836.22	18773.36	----------	----------	1
2	10.0000	109096.59	33946.60	----------	----------	1
3	20.0000	233000.00	72955.53	----------	----------	1
4	40.0000	416156.00	131035.10	----------	----------	1
5	50.0000	490372.00	155633.82	----------	----------	1
6	100.0000	1008118.00	325485.20	----------	----------	1
7	200.0000	1888870.50	594797.30	----------	----------	1

Average Calibration Factor = 11036.512405 (%RSD = 17.01)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.649 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	51125.53	16044.77	----------	----------	1
2	10.0000	93426.08	30709.04	----------	----------	1
3	20.0000	209150.00	68763.21	----------	----------	1
4	40.0000	383204.00	127081.74	----------	----------	1
5	50.0000	445150.50	149782.07	----------	----------	1
6	100.0000	946333.00	321594.21	----------	----------	1
7	200.0000	1818994.00	605871.21	----------	----------	1

Average Calibration Factor = 9946.128577 (%RSD = 13.52)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 18.415 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	63225.91	19901.64	----------	----------	1
2	10.0000	96374.23	30039.13	----------	----------	1
3	20.0000	181686.28	56323.99	----------	----------	1
4	40.0000	322449.88	101605.77	----------	----------	1
5	50.0000	380264.28	120215.50	----------	----------	1
6	100.0000	762062.88	244698.24	----------	----------	1
7	200.0000	1504032.42	475530.88	----------	~~136~~	1

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Average Calibration Factor = 9333.648381 (%RSD = 31.81)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 18.846 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	106308.38	35623.25	----------	----------	1
2	50.0000	201438.94	63749.28	----------	----------	1
3	100.0000	462753.05	148801.64	----------	----------	1
4	200.0000	870042.63	296454.14	----------	----------	1
5	250.0000	990216.68	333913.52	----------	----------	1
6	500.0000	1797979.65	579545.60	----------	----------	1
7	1000.0000	2956704.27	905376.89	----------	----------	1

Average Calibration Factor = 4119.353132 (%RSD = 18.28)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 19.500 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	59410.02	18796.08	----------	----------	1
2	10.0000	99840.01	31320.23	----------	----------	1
3	20.0000	206577.65	64808.20	----------	----------	1
4	40.0000	360866.67	114340.90	----------	----------	1
5	50.0000	416639.50	132875.04	----------	----------	1
6	100.0000	867944.08	282474.54	----------	----------	1
7	200.0000	1719189.64	553276.77	----------	----------	1

Average Calibration Factor = 9970.747665 (%RSD = 22.83)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 20.177 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	63222.00	21324.16	----------	----------	1
2	10.0000	112458.00	36629.71	----------	----------	1
3	20.0000	239866.40	77641.51	----------	----------	1
4	40.0000	432891.86	145092.89	----------	----------	1
5	50.0000	505151.14	166275.38	----------	----------	1
6	100.0000	1025836.99	338318.78	----------	----------	1
7	200.0000	1883928.06	598164.79	----------	----------	1

Average Calibration Factor = 11378.278513 (%RSD = 18.65)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.033 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	63686.36	23152.33	----------	----------	1
3	20.0000	158304.63	57388.09	----------	----------	1
4	40.0000	290173.07	105074.87	----------	----------	1
5	50.0000	289942.32	105388.13	----------	----------	1
6	100.0000	581640.90	213601.49	----------	----------	1
7	200.0000	1260224.77	470612.30	----------	----------	1
1	4.0000	34282.07	12234.68	----------	----------	1

Average Calibration Factor = 6860.727178 (%RSD = 15.70)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57295.02	15336.18	4.0000	---------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109084.50	28871.83	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
241998.33	63096.50	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
426007.07	115883.26	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
496316.86	131734.40	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1034414.50	285757.18	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2037195.00	549872.05	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43570.00	12366.63	2.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83249.33	24097.18	5.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185740.30	53738.24	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
326124.00	93792.19	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
390140.50	112108.83	25.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
820240.46	245711.01	50.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1678596.80	491495.83	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : gamma-BHC
Level : 1

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40042.76	11626.21	2.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75626.50	22496.18	5.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
169142.00	50141.55	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
293479.50	86277.90	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
348877.00	102451.61	25.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
718033.00	217083.38	50.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1502318.00	454597.87	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : beta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18964.90	5750.44	2.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34184.50	10341.16	5.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74193.88	22278.96	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
125591.00	38451.39	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
147231.00	44542.19	25.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
284242.92	86244.03	50.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
576267.00	177403.86	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : delta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47262.80	14099.54	2.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80342.32	24847.69	5.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
172652.98	52957.96	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
298388.74	89739.15	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
349447.86	106265.71	25.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
717043.80	224532.89	50.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1498717.77	467418.43	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Heptachlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34855.00	10628.03	2.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66914.50	20723.30	5.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
150812.55	45976.41	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
265144.00	81112.34	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
312548.34	96151.01	25.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
644053.00	201724.65	50.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1353812.35	424996.14	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36516.10	11547.37	2.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69757.43	21128.37	5.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
152620.14	46095.38	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
268129.22	84381.72	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
318471.16	98772.18	25.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
647841.50	200941.64	50.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1349138.66	422651.47	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34387.00	11113.42	2.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64980.00	20455.53	5.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140807.00	44250.47	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
246926.17	78869.76	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
291725.53	92918.18	25.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
581586.30	186250.49	50.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1199606.00	388541.94	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : gamma-Chlordane

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36016.00	11043.28	2.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65924.00	20709.57	5.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140515.50	44936.61	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
248717.00	79226.06	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
294483.00	94670.20	25.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
594275.81	192439.99	50.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1241829.00	408855.97	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33263.00	10321.71	2.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62806.19	20258.61	5.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
135726.00	43865.15	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
238066.00	74097.59	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
281391.00	89032.02	25.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
563837.00	182004.36	50.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1180633.00	385121.69	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61085.00	20374.72	4.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116857.50	38906.93	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
257117.00	85915.63	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
473670.50	158723.56	40.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
561592.00	190202.85	50.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1169072.00	399049.91	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2162911.50	715210.79	200.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Endosulfan I

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31917.00	9892.64	2.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60164.30	18796.26	5.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
131127.50	40571.76	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226533.00	69856.79	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
265883.00	80599.97	25.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
527446.00	166061.70	50.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1096826.50	348737.38	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Dieldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65114.29	20916.17	4.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124164.09	39295.63	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
271842.00	85825.46	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
492190.42	159449.78	40.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
588737.77	190729.36	50.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1199978.77	389689.33	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2213090.44	689589.09	200.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54301.23	17228.20	4.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102070.00	32100.01	10.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
232375.50	73084.00	20.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
399390.50	127676.27	40.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
469316.50	150696.24	50.0000	--------	--------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
980149.00	319274.75	100.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1862518.00	588916.57	200.0000	--------	--------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : 4,4'-DDD
Level : 1

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49733.79	16158.64	4.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93381.00	31121.10	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205070.00	67738.84	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
374455.00	122291.23	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
438615.00	141580.16	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
925388.00	310365.59	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1764493.00	575777.24	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59836.22	18773.36	4.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109096.59	33946.60	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
233000.00	72955.53	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
416156.00	131035.10	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
490372.00	155633.82	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1008118.00	325485.20	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1888870.50	594797.30	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : 4,4'-DDT

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51125.53	16044.77	4.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93426.08	30709.04	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209150.00	68763.21	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
383204.00	127081.74	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
445150.50	149782.07	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
946333.00	321594.21	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1818994.00	605871.21	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Endrin aldehyde

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63225.91	19901.64	4.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
96374.23	30039.13	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
181686.28	56323.99	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
322449.88	101605.77	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
380264.28	120215.50	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
762062.88	244698.24	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1504032.42	475530.88	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106308.38	35623.25	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
201438.94	63749.28	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
462753.05	148801.64	100.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
870042.63	296454.14	200.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
990216.68	333913.52	250.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1797979.65	579545.60	500.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2956704.27	905376.89	1000.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59410.02	18796.08	4.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
99840.01	31320.23	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
206577.65	64808.20	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
360866.67	114340.90	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
416639.50	132875.04	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
867944.08	282474.54	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1719189.64	553276.77	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Endrin ketone

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63222.00	21324.16	4.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112458.00	36629.71	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
239866.40	77641.51	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
432891.86	145092.89	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
505151.14	166275.38	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1025836.99	338318.78	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

8/20/04 3:30:03 PM Method: G:\gc23\Files\8081a233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1883928.06	598164.79	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Component : Decachlorobiphenyl
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63686.36	23152.33	10.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
158304.63	57388.09	20.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290173.07	105074.87	40.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
289942.32	105388.13	50.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
581640.90	213601.49	100.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1260224.77	470612.30	200.0000	---------	---------	8/20/04	3:28:58 PM	G:\gc23\CHA\232a020P.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34282.07	12234.68	4.0000	---------	---------	8/20/04	3:28:57 PM	G:\gc23\CHA\232a014.rst

Turbochrom Method File G:\gc23\Files\8081b233.mth
Printed by : analyst on: 8/20/04 3:27:43 PM
Created by : analyst on: 8/20/04 3:25:11 PM
Edited by : analyst on: 8/20/04 3:27:40 PM
Number of Times Edited : 2
Number of Times Calibrated : 120
Description: GC 23

Jmcw 9/20/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 8.264 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	61573.00	16046.07	----------	----------	1
2	10.0000	107253.51	26492.46	----------	----------	1
3	20.0000	267932.00	68910.24	----------	----------	1
4	40.0000	487086.00	130877.06	----------	----------	1
5	50.0000	539540.00	135232.00	----------	----------	1
6	100.0000	1086675.80	295052.11	----------	----------	1
7	200.0000	2271123.58	598498.11	----------	----------	1

Average Calibration Factor = 12100.789521 (%RSD = 14.40)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 9.972 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	45176.14	13021.66	----------	----------	1
2	5.0000	79101.50	22960.89	----------	----------	1
3	10.0000	204452.27	60756.20	----------	----------	1
4	20.0000	372542.09	110080.22	----------	----------	1
5	25.0000	420040.00	120055.32	----------	----------	1
6	50.0000	863499.63	262634.39	----------	----------	1
7	100.0000	1877318.08	566200.50	----------	----------	1

Average Calibration Factor = 18617.925042 (%RSD = 12.42)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.947 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	41972.00	13034.30	----------	----------	1
2	5.0000	73045.00	21821.27	----------	----------	1
3	10.0000	186096.00	56178.80	----------	----------	1
4	20.0000	337173.00	105316.61	----------	----------	1
5	25.0000	374481.78	113311.73	----------	----------	1
6	50.0000	756648.00	235350.03	----------	----------	1
7	100.0000	1679809.00	513584.78	----------	----------	1

Average Calibration Factor = 16853.367291 (%RSD = 13.63)

beta-BHC

Component Type : Single Peak Component
Retention Time : 11.158 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	20566.00	6348.36	----------	----------	1
2	5.0000	34297.00	10458.61	----------	----------	1
3	10.0000	84744.50	26007.94	----------	----------	1
4	20.0000	148533.50	45637.59	----------	----------	1
5	25.0000	162473.14	48156.35	----------	----------	1
6	50.0000	309143.88	93861.05	----------	----------	1
7	100.0000	704789.00	221936.12	----------	----------	1

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Average Calibration Factor = 7539.031146 (%RSD = 18.79)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.950 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	49345.50	15732.38	----------	----------	1
2	5.0000	78483.00	25153.57	----------	----------	1
3	10.0000	191187.50	62034.24	----------	----------	1
4	20.0000	345751.00	112515.99	----------	----------	1
5	25.0000	374237.00	120516.22	----------	----------	1
6	50.0000	765785.00	253177.42	----------	----------	1
7	100.0000	1670377.00	545649.13	----------	----------	1

Average Calibration Factor = 17680.657143 (%RSD = 19.17)

Heptachlor
Component Type : Single Peak Component
Retention Time : 12.135 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	25708.00	7604.87	----------	----------	1
2	5.0000	46501.50	13900.15	----------	----------	1
3	10.0000	124934.79	38656.89	----------	----------	1
4	20.0000	239522.00	73160.60	----------	----------	1
5	25.0000	261572.00	79375.55	----------	----------	1
6	50.0000	538543.00	166908.00	----------	----------	1
7	100.0000	1315257.32	419076.67	----------	----------	1

Average Calibration Factor = 11572.884608 (%RSD = 12.31)

Aldrin
Component Type : Single Peak Component
Retention Time : 12.982 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	39343.00	12886.57	----------	----------	1
2	5.0000	68698.00	21887.00	----------	----------	1
3	10.0000	171160.50	54545.33	----------	----------	1
4	20.0000	311992.50	101946.60	----------	----------	1
5	25.0000	346985.00	111711.25	----------	----------	1
6	50.0000	688538.00	223990.05	----------	----------	1
7	100.0000	1525513.00	493147.14	----------	----------	1

Average Calibration Factor = 15576.009286 (%RSD = 14.06)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 14.458 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	37081.00	12331.88	----------	----------	1
2	5.0000	64617.80	20808.55	----------	----------	1
3	10.0000	157890.01	51046.98	----------	----------	1
4	20.0000	287304.00	93407.31	----------	----------	1
5	25.0000	315622.16	100621.74	----------	----------	1
6	50.0000	613820.00	196963.72	----------	----------	1
7	100.0000	1360539.00	434378.99	----------	----------	1

Average Calibration Factor = 14303.562464 (%RSD = 15.50)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 14.934 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	37356.42	12303.02	----------	----------	1
2	5.0000	65111.00	21782.57	----------	----------	1
3	10.0000	158982.00	53057.40	----------	----------	1
4	20.0000	293348.50	97218.68	----------	----------	1
5	25.0000	319463.36	106943.05	----------	----------	1
6	50.0000	634273.00	214314.55	----------	----------	1
7	100.0000	1413216.50	475528.21	----------	----------	1

Average Calibration Factor = 14551.741909 (%RSD = 14.84)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 15.309 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	36396.00	12237.19	----------	----------	1
2	5.0000	63571.76	20631.91	----------	----------	1
3	10.0000	152765.00	49709.01	----------	----------	1
4	20.0000	281115.00	92957.20	----------	----------	1
5	25.0000	304432.00	99298.93	----------	----------	1
6	50.0000	596928.00	194059.31	----------	----------	1
7	100.0000	1339819.00	432041.71	----------	----------	1

Average Calibration Factor = 13965.518778 (%RSD = 15.70)

Endosulfan I

Component Type : Single Peak Component
Retention Time : 15.444 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	34247.00	11531.02	----------	----------	1
2	5.0000	59927.11	19103.30	----------	----------	1
3	10.0000	144360.50	46252.91	----------	----------	1
4	20.0000	265576.00	87807.93	----------	----------	1
5	25.0000	286932.50	93500.46	----------	----------	1
6	50.0000	560960.00	181307.63	----------	----------	1
7	100.0000	1254188.50	403583.31	----------	----------	1

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Average Calibration Factor = 13151.736642 (%RSD = 15.74)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 15.754 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	67217.50	22278.92	----------	----------	1
2	10.0000	117743.00	40482.38	----------	----------	1
3	20.0000	291697.00	100279.91	----------	----------	1
4	40.0000	565846.50	186905.22	----------	----------	1
5	50.0000	610348.00	207220.41	----------	----------	1
6	100.0000	1203438.50	413814.29	----------	----------	1
7	200.0000	2374812.50	781529.54	----------	----------	1

Average Calibration Factor = 13346.442143 (%RSD = 14.28)

Dieldrin
Component Type : Single Peak Component
Retention Time : 16.132 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	71347.00	23560.19	----------	----------	1
2	10.0000	123687.00	40266.40	----------	----------	1
3	20.0000	306263.00	99758.15	----------	----------	1
4	40.0000	580714.42	194052.81	----------	----------	1
5	50.0000	627490.66	209312.85	----------	----------	1
6	100.0000	1225318.62	405982.38	----------	----------	1
7	200.0000	2397971.67	761593.47	----------	----------	1

Average Calibration Factor = 13832.759758 (%RSD = 15.72)

Endrin
Component Type : Single Peak Component
Retention Time : 16.886 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	52547.00	16569.76	----------	----------	1
2	10.0000	91643.36	30056.30	----------	----------	1
3	20.0000	239931.00	79148.52	----------	----------	1
4	40.0000	431038.15	137322.54	----------	----------	1
5	50.0000	450019.00	146452.11	----------	----------	1
6	100.0000	927133.00	307782.44	----------	----------	1
7	200.0000	1888897.00	604595.43	----------	----------	1

Average Calibration Factor = 10398.540613 (%RSD = 15.63)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 17.185 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	54182.50	17877.15	----------	----------	1
2	10.0000	95007.00	32294.38	----------	----------	1
3	20.0000	231027.00	78790.81	----------	----------	1
4	40.0000	446439.85	150196.61	----------	----------	1
5	50.0000	460773.50	157378.69	----------	----------	1
6	100.0000	952028.03	331083.45	----------	----------	1
7	200.0000	1908224.19	645271.11	----------	----------	1

Average Calibration Factor = 10576.506072 (%RSD = 15.10)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 17.405 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	64744.00	20882.92	----------	----------	1
2	10.0000	108542.67	35600.07	----------	----------	1
3	20.0000	259812.94	85683.85	----------	----------	1
4	40.0000	492489.00	156091.28	----------	----------	1
5	50.0000	511401.97	165309.45	----------	----------	1
6	100.0000	1042047.50	345955.04	----------	----------	1
7	200.0000	2049376.90	651021.14	----------	----------	1

Average Calibration Factor = 11891.219666 (%RSD = 18.34)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.964 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	46862.12	16088.50	----------	----------	1
2	10.0000	83012.79	27566.01	----------	----------	1
3	20.0000	209212.70	68511.42	----------	----------	1
4	40.0000	413785.36	142025.07	----------	----------	1
5	50.0000	420620.13	142329.92	----------	----------	1
6	100.0000	887212.77	300003.86	----------	----------	1
7	200.0000	1833970.64	608382.88	----------	----------	1

Average Calibration Factor = 9610.922989 (%RSD = 13.15)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 18.243 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	64957.08	20922.22	----------	----------	1
2	10.0000	94200.02	29100.00	----------	----------	1
3	20.0000	202683.02	62917.52	----------	----------	1
4	40.0000	377876.95	119365.35	----------	----------	1
5	50.0000	388349.36	120287.00	----------	----------	1
6	100.0000	789273.80	244518.67	----------	----------	1
7	200.0000	1635727.35	498703.52	----------	----------	1

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Average Calibration Factor = 9868.387067 (%RSD = 29.89)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 18.922 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	65085.50	20838.55	----------	----------	1
2	10.0000	102253.50	33401.56	----------	----------	1
3	20.0000	233333.51	76525.27	----------	----------	1
4	40.0000	444968.53	139346.50	----------	----------	1
5	50.0000	445469.07	142532.22	----------	----------	1
6	100.0000	933565.91	311552.08	----------	----------	1
7	200.0000	1934420.91	621543.83	----------	----------	1

Average Calibration Factor = 11029.251275 (%RSD = 22.74)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 19.670 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	100284.08	32708.82	----------	----------	1
2	50.0000	176367.19	60226.30	----------	----------	1
3	100.0000	449417.00	155077.02	----------	----------	1
4	200.0000	929338.87	311041.65	----------	----------	1
5	250.0000	896518.30	308609.21	----------	----------	1
6	500.0000	1667134.62	567996.97	----------	----------	1
7	1000.0000	2882927.81	918720.54	----------	----------	1

Average Calibration Factor = 3926.526060 (%RSD = 20.10)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 20.219 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	66087.27	22699.84	----------	----------	1
2	10.0000	107339.50	38130.59	----------	----------	1
3	20.0000	251707.50	89078.94	----------	----------	1
4	40.0000	488951.00	170434.25	----------	----------	1
5	50.0000	484891.00	171226.04	----------	----------	1
6	100.0000	987156.50	349769.75	----------	----------	1
7	200.0000	1887685.50	649264.80	----------	----------	1

Average Calibration Factor = 11581.818721 (%RSD = 21.62)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.564 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	62379.24	21495.35	----------	----------	1
3	20.0000	159063.74	54644.59	----------	----------	1
4	40.0000	317318.50	111461.22	----------	----------	1
5	50.0000	265631.41	91056.81	----------	----------	1
6	100.0000	538264.34	189204.29	----------	----------	1
7	200.0000	1151283.00	400561.02	----------	----------	1

Average Calibration Factor = 6429.293305 (%RSD = 18.94)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61573.00	16046.07	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107253.51	26492.46	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
267932.00	68910.24	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
487086.00	130877.06	40.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
539540.00	135232.00	50.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1086675.80	295052.11	100.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2271123.58	598498.11	200.0000	--------	--------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : alpha-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45176.14	13021.66	2.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
79101.50	22960.89	5.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
204452.27	60756.20	10.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
372542.09	110080.22	20.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
420040.00	120055.32	25.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
863499.63	262634.39	50.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1877318.08	566200.50	100.0000	--------	--------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : gamma-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41972.00	13034.30	2.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73045.00	21821.27	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
186096.00	56178.80	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
337173.00	105316.61	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
374481.78	113311.73	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
756648.00	235350.03	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1679809.00	513584.78	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20566.00	6348.36	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34297.00	10458.61	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84744.50	26007.94	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
148533.50	45637.59	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
162473.14	48156.35	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
309143.88	93861.05	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
704789.00	221936.12	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : delta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49345.50	15732.38	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78483.00	25153.57	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
191187.50	62034.24	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
345751.00	112515.99	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
374237.00	120516.22	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
765785.00	253177.42	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1670377.00	545649.13	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Heptachlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25708.00	7604.87	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46501.50	13900.15	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124934.79	38656.89	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
239522.00	73160.60	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
261572.00	79375.55	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
538543.00	166908.00	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1315257.32	419076.67	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39343.00	12886.57	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68698.00	21887.00	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171160.50	54545.33	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
311992.50	101946.60	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
346985.00	111711.25	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
688538.00	223990.05	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1525513.00	493147.14	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37081.00	12331.88	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64617.80	20808.55	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157890.01	51046.98	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
287304.00	93407.31	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
315622.16	100621.74	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
613820.00	196963.72	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1360539.00	434378.99	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37356.42	12303.02	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65111.00	21782.57	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
158982.00	53057.40	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
293348.50	97218.68	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
319463.36	106943.05	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
634273.00	214314.55	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1413216.50	475528.21	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : alpha-Chlordane
Level : 1

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36396.00	12237.19	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63571.76	20631.91	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
152765.00	49709.01	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
281115.00	92957.20	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
304432.00	99298.93	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
596928.00	194059.31	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1339819.00	432041.71	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Endosulfan I
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34247.00	11531.02	2.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59927.11	19103.30	5.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
144360.50	46252.91	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
265576.00	87807.93	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
286932.50	93500.46	25.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
560960.00	181307.63	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1254188.50	403583.31	100.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67217.50	22278.92	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117743.00	40482.38	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
291697.00	100279.91	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
565846.50	186905.22	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
610348.00	207220.41	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1203438.50	413814.29	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2374812.50	781529.54	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71347.00	23560.19	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123687.00	40266.40	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
306263.00	99758.15	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
580714.42	194052.81	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
627490.66	209312.85	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1225318.62	405982.38	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2397971.67	761593.47	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52547.00	16569.76	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91643.36	30056.30	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
239931.00	79148.52	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
431038.15	137322.54	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
450019.00	146452.11	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
927133.00	307782.44	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1888897.00	604595.43	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : 4,4'-DDD
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54182.50	17877.15	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95007.00	32294.38	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
231027.00	78790.81	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
446439.85	150196.61	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
460773.50	157378.69	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
952028.03	331083.45	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1908224.19	645271.11	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64744.00	20882.92	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
108542.67	35600.07	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
259812.94	85683.85	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
492489.00	156091.28	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
511401.97	165309.45	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1042047.50	345955.04	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2049376.90	651021.14	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46862.12	16088.50	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83012.79	27566.01	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209212.70	68511.42	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
413785.36	142025.07	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
420620.13	142329.92	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
887212.77	300003.86	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1833970.64	608382.88	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64957.08	20922.22	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94200.02	29100.00	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
202683.02	62917.52	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
377876.95	119365.35	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
388349.36	120287.00	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
789273.80	244518.67	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1635727.35	498703.52	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Endosulfan sulfate

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65085.50	20838.55	4.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102253.50	33401.56	10.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
233333.51	76525.27	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
444968.53	139346.50	40.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
445469.07	142532.22	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
933565.91	311552.08	100.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1934420.91	621543.83	200.0000	---------	---------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Methoxychlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
100284.08	32708.82	20.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
176367.19	60226.30	50.0000	---------	---------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
449417.00	155077.02	100.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
929338.87	311041.65	200.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
896518.30	308609.21	250.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1667134.62	567996.97	500.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2882927.81	918720.54	1000.0000	--------	--------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Endrin ketone
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66087.27	22699.84	4.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b014P.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107339.50	38130.59	10.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251707.50	89078.94	20.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
488951.00	170434.25	40.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
484891.00	171226.04	50.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
987156.50	349769.75	100.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1887685.50	649264.80	200.0000	--------	--------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

Component : Decachlorobiphenyl
Level : 2

8/20/04 3:27:43 PM Method: G:\gc23\Files\8081b233.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62379.24	21495.35	10.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b015P.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159063.74	54644.59	20.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b016P.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
317318.50	111461.22	40.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b017P.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
265631.41	91056.81	50.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b018P.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
538264.34	189204.29	100.0000	--------	--------	8/20/04	3:15:13 PM	G:\gc23\CHB\232b019P.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1151283.00	400561.02	200.0000	--------	--------	8/20/04	3:15:14 PM	G:\gc23\CHB\232b020P.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: 8/20-06
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	232_014	804335061014	level_1	19-AUG-2004 22:41	04WS1513
2	232_015	804335061015	level_2	19-AUG-2004 23:10	04WS1512
3	232_016	804335061016	level_3	19-AUG-2004 23:40	04WS0927
4	232_017	804335061017	level_4	20-AUG-2004 00:09	04WS1434
5	232_018	804335061018	level_5	20-AUG-2004 00:38	04WS1509
6	232_019	804335061019	level_6	20-AUG-2004 01:08	04WS1508
7	232_020	804335061020	level_7	20-AUG-2004 01:37	04WS1507

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	21785	16650	18574	16306	15606	16405	16786	AVRG	R		5.732E-5		pg	17444	12	0.995	20	
gamma-BHC	A	20021	15125	16914	14674	13955	14361	15023	AVRG	R		6.359E-5		pg	15725	13	0.995	20	
beta-BHC	A	9482.5	6836.9	7419.4	6279.6	5889.2	5684.9	5762.7	AVRG	R		1.478E-4		pg	6765.0	20	0.995	20	
delta-BHC	A	23631	16068	17265	14919	13978	14341	14987	AVRG	R		6.077E-5		pg	16456	20	0.995	20	
Heptachlor	A	17428	13383	15081	13257	12502	12881	13538	AVRG	R		7.138E-5		pg	14010	12	0.995	20	
Aldrin	A	18258	13951	15262	13406	12739	12957	13491	AVRG	R		6.995E-5		pg	14295	14	0.995	20	
Heptachlor epoxide	A	17194	12996	14081	12346	11669	11632	11996	AVRG	R		7.616E-5		pg	13130	15	0.995	20	
gamma-Chlordane	A	18008	13185	14052	12436	11779	11886	12418	AVRG	R		7.466E-5		pg	13395	16	0.995	20	
alpha-Chlordane	A	16632	12561	13573	11903	11256	11277	11806	AVRG	R		7.865E-5		pg	12715	15	0.995	20	
4,4'-DDE	A	15271	11686	12856	11842	11232	11691	10815	AVRG	R		8.198E-5		pg	12199	12	0.995	20	
Endosulfan I	A	15959	12033	13113	11327	10635	10549	10968	AVRG	R		8.276E-5		pg	12083	16	0.995	20	
Dieldrin	A	16279	12416	13592	12305	11775	12000	11065	AVRG	R		7.827E-5		pg	12776	13	0.995	20	
Endrin	A	13575	10207	11619	9984.8	9386.3	9801.5	9312.6	AVRG	R		9.474E-5		pg	10555	15	0.995	20	
4,4'-DDD	A	12433	9338.1	10254	9361.4	8772.3	9253.9	8822.5	AVRG	R		1.026E-4		pg	9747.9	13	0.995	20	
Endosulfan II	A	14959	10910	11650	10404	9807.4	10081	9444.4	AVRG	R		9.061E-5		pg	11037	17	0.995	20	
4,4'-DDT	A	12781	9342.6	10458	9580.1	8903.0	9463.3	9095.0	AVRG	R		1.005E-4		pg	9946.1	14	0.995	20	
Endrin aldehyde	A	15806	9637.4	9084.3	8061.2	7605.3	7620.6	7520.2	AVRG	R		1.071E-4		pg	9333.6	32	0.995	20	rsd ***
Methoxychlor	A	5315.4	4028.8	4627.5	4350.2	3960.9	3596.0	2956.7	AVRG	R		2.428E-4		pg	4119.4	18	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By:
Calnum: 804335061001 Name: Type: (normal) Date: 19-AUG-2004 22:41 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	14853	9984.0	10329	9021.7	8332.8	8679.4	8595.9	AVRG	R		1.003E-4		pg	9970.7	23	0.995	20	rsd ***
Endrin ketone	A	15806	11246	11993	10822	10103	10258	9419.6	AVRG	R		8.789E-5		pg	11378	19	0.995	20	
TCMX	A	14324	10908	12100	10650	9926.3	10344	10186	AVRG	R		8.924E-5		pg	11206	14	0.995	20	
Decachlorobiphenyl	A	8570.5	6368.6	7915.2	7254.3	5798.8	5816.4	6301.1	AVRG	R		1.458E-4		pg	6860.7	16	0.995	20	
alpha-BHC	B	22588	15820	20445	18627	16802	17270	18773	AVRG	R		5.371E-5		pg	18618	12	0.995	20	
gamma-BHC	B	20986	14609	18610	16859	14979	15133	16798	AVRG	R		5.934E-5		pg	16853	14	0.995	20	
beta-BHC	B	10283	6859.4	8474.5	7426.7	6498.9	6182.9	7047.9	AVRG	R		1.326E-4		pg	7539.0	19	0.995	20	
delta-BHC	B	24673	15697	19119	17288	14969	15316	16704	AVRG	R		5.656E-5		pg	17681	19	0.995	20	
Heptachlor	B	12854	9300.3	12493	11976	10463	10771	13153	AVRG	R		8.641E-5		pg	11573	12	0.995	20	
Aldrin	B	19672	13740	17116	15600	13879	13771	15255	AVRG	R		6.420E-5		pg	15576	14	0.995	20	
Heptachlor epoxide	B	18541	12924	15789	14365	12625	12276	13605	AVRG	R		6.991E-5		pg	14304	15	0.995	20	
gamma-Chlordane	B	18678	13022	15898	14667	12779	12685	14132	AVRG	R		6.872E-5		pg	14552	15	0.995	20	
alpha-Chlordane	B	18198	12714	15277	14056	12177	11939	13398	AVRG	R		7.160E-5		pg	13966	16	0.995	20	
4,4'-DDE	B	16804	11774	14585	14146	12207	12034	11874	AVRG	R		7.493E-5		pg	13346	14	0.995	20	
Endosulfan I	B	17124	11985	14436	13279	11477	11219	12542	AVRG	R		7.604E-5		pg	13152	16	0.995	20	
Dieldrin	B	17837	12369	15313	14518	12550	12253	11990	AVRG	R		7.229E-5		pg	13833	16	0.995	20	
Endrin	B	13137	9164.3	11997	10776	9000.4	9271.3	9444.5	AVRG	R		9.617E-5		pg	10399	16	0.995	20	
4,4'-DDD	B	13546	9500.7	11551	11161	9215.5	9520.3	9541.1	AVRG	R		9.455E-5		pg	10577	15	0.995	20	
Endosulfan II	B	16186	10854	12991	12312	10228	10420	10247	AVRG	R		8.410E-5		pg	11891	18	0.995	20	
4,4'-DDT	B	11716	8301.3	10461	10345	8412.4	8872.1	9169.9	AVRG	R		1.040E-4		pg	9610.9	13	0.995	20	
Endrin aldehyde	B	16239	9420.0	10134	9446.9	7767.0	7892.7	8178.6	AVRG	R		1.013E-4		pg	9868.4	30	0.995	20	rsd ***
Methoxychlor	B	5014.2	3527.3	4494.2	4646.7	3586.1	3334.3	2882.9	AVRG	R		2.547E-4		pg	3926.5	20	0.995	20	
Endosulfan sulfate	B	16271	10225	11667	11124	8909.4	9335.7	9672.1	AVRG	R		9.067E-5		pg	11029	23	0.995	20	rsd ***
Endrin ketone	B	16522	10734	12585	12224	9697.8	9871.6	9438.4	AVRG	R		8.634E-5		pg	11582	22	0.995	20	rsd ***
TCMX	B	15393	10725	13397	12177	10791	10867	11356	AVRG	R		8.264E-5		pg	12101	14	0.995	20	
Decachlorobiphenyl	B		6237.9	7953.2	7933.0	5312.6	5382.6	5756.4	AVRG	R		1.555E-4		pg	6429.3	19	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	16	20	
EPA 8081A	B	22	17	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0~~513~~,level_1
Instrument Name : GC23 1513 RH
Rack/Vial : 0/0 8/20/04
Sample Amount : 1.000000
Cycle : 14

Date : 8/20/04 1:58:01 PM
Data Acquisition Time : 8/19/04 10:41:25 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a014.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.335	57295.02	5.4765	1.000	1	5.48
alpha-BHC	9.978	43570.00	2.7006	1.000	1	2.70
gamma-BHC	10.878	40042.76	2.7359	1.000	1	2.74
beta-BHC	11.135	18964.90	2.9363	1.000	1	2.94
delta-BHC	11.627	47262.80	3.2262	1.000	1	3.23
Heptachlor	12.188	34855.00	2.7131	1.000	1	2.71
Aldrin	12.999	36516.10	2.7382	1.000	1	2.74
Heptachlor epoxide	14.601	34387.00	2.7917	1.000	1	2.79
gamma-Chlordane	14.918	36016.00	2.8812	1.000	1	2.88
alpha-Chlordane	15.256	33263.00	2.7989	1.000	1	2.80
4,4'-DDE	15.452	61085.00	5.3199	1.000	1	5.32
Endosulfan I	15.613	31917.00	2.8464	1.000	1	2.85
Dieldrin	16.218	65114.29	5.4101	1.000	1	5.41
Endrin	16.802	54301.23	6.3486	1.000	1	6.35
4,4'-DDD	16.963	49733.79	5.2859	1.000	1	5.29
Endosulfan II	17.369	59836.22	5.8982	1.000	1	5.90
4,4'-DDT	17.652	51125.53	6.1887	1.000	1	6.19
Endrin aldehyde	18.418	63225.91	7.8057	1.000	1	7.81
Methoxychlor	18.849	106308.38	30.3811	1.000	1	30.38
Endosulfan sulfate	19.502	59410.02	6.8165	1.000	1	6.82
Endrin ketone	20.181	63222.00	5.9169	1.000	1	5.92
Decachlorobiphenyl	22.035	34282.07	5.6329	1.000	1	5.63
		1081734.02	124.8496			124.85

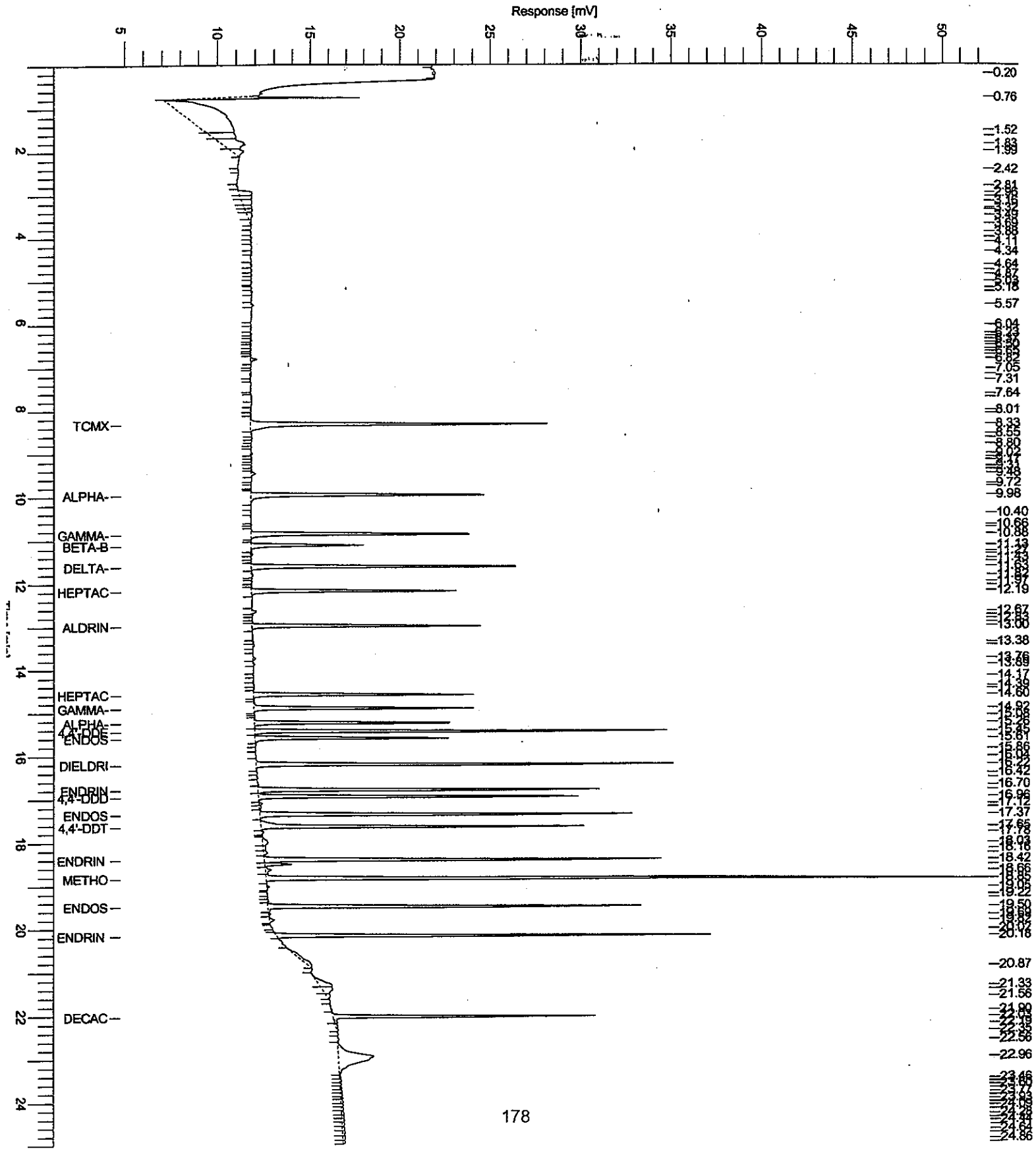
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\232a014.TX0

RH
8/20/04

GC23 Rtx-CLPesticides

ımple Name : ical,04ws0513,level_1 Sample #: Page 1 of 1
eName : G:\gc23\CHA\232a014.raw
ıte : 8/20/04 1:58:03 PM
ethod : gc23ins Time of Injection: 8/19/04 10:41:25 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 4.83 mV High Point : 52.27 mV
cale Factor: 1.0 Plot Offset: 4.83 mV Plot Scale: 47.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0513,level_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 8/20/04 3:07:40 PM
Data Acquisition Time : 8/19/04 10:41:25 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b014P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

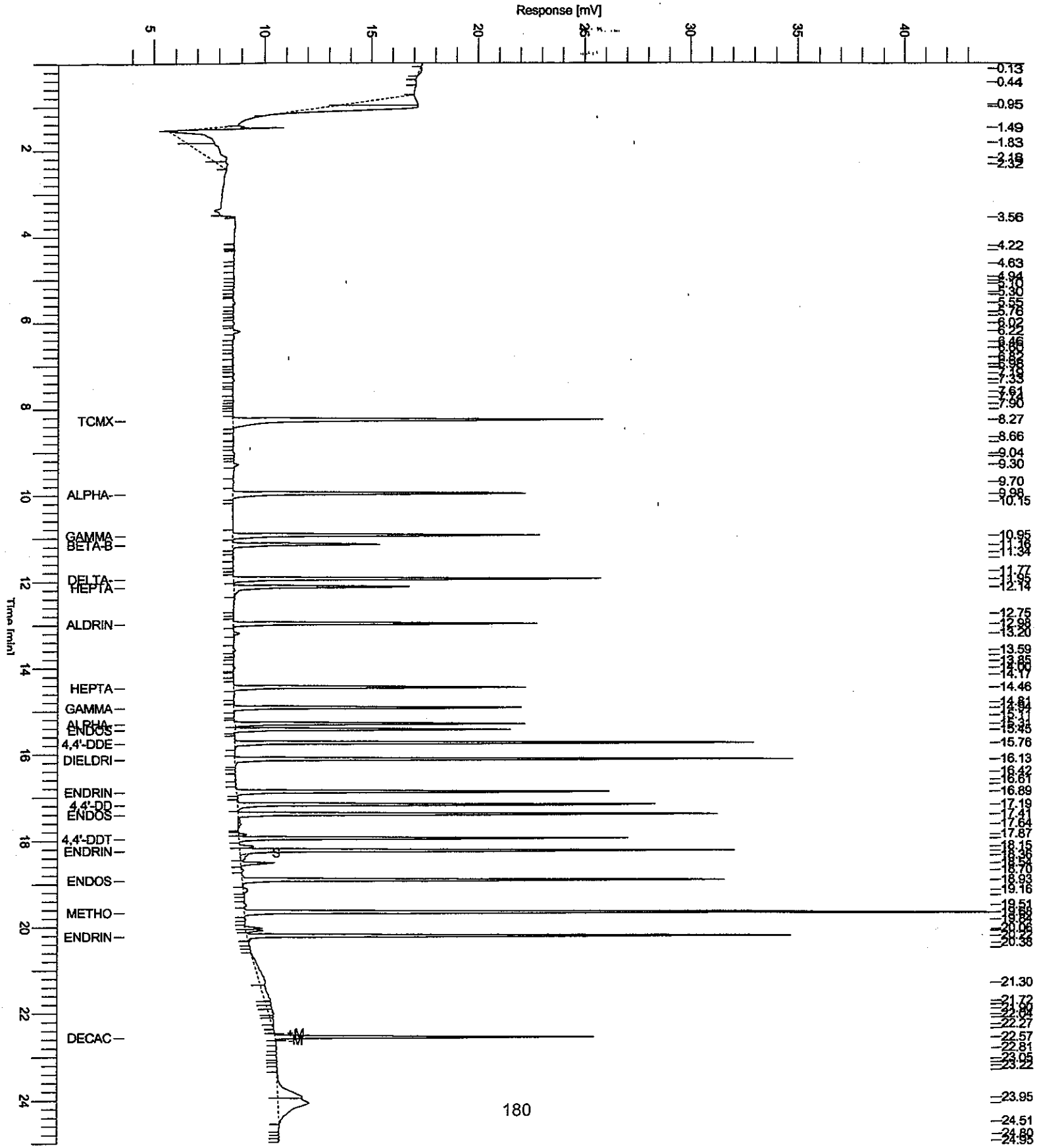
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.267	61573.00	4.3695	1.000	1	4.37
alpha-BHC	9.979	45176.14	2.0714	1.000	1	2.07
gamma-BHC	10.950	41972.00	2.1319	1.000	1	2.13
beta-BHC	11.164	20566.00	2.3650	1.000	1	2.36
delta-BHC	11.953	49345.50	2.4555	1.000	1	2.46
Heptachlor	12.138	25708.00	1.7755	1.000	1	1.78
Aldrin	12.984	39343.00	2.1261	1.000	1	2.13
Heptachlor epoxide	14.464	37081.00	2.1842	1.000	1	2.18
gamma-Chlordane	14.937	37356.42	2.1573	1.000	1	2.16
alpha-Chlordane	15.315	36396.00	2.1976	1.000	1	2.20
Endosulfan I	15.449	34247.00	2.2014	1.000	1	2.20
4,4'-DDE	15.762	67217.50	4.1562	1.000	1	4.16
Dieldrin	16.135	71347.00	4.3001	1.000	1	4.30
Endrin	16.889	52547.00	4.6499	1.000	1	4.65
4,4'-DDD	17.188	54182.50	4.1239	1.000	1	4.12
Endosulfan II	17.412	64744.00	4.5907	1.000	1	4.59
4,4'-DDT	17.967	46862.12	4.3648	1.000	1	4.36
Endrin aldehyde	18.249	64957.08	5.7975	1.000	1	5.80
Endosulfan sulfate	18.929	65085.50	5.2108	1.000	1	5.21
Methoxychlor	19.678	100284.08	20.7498	1.000	1	20.75
Endrin ketone	20.220	66087.27	4.6755	1.000	1	4.68
Decachlorobiphenyl	22.566	35683.12	4.2469	1.000	1	4.25
		1117761.23	92.9014			92.90

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\232b014P.TX0

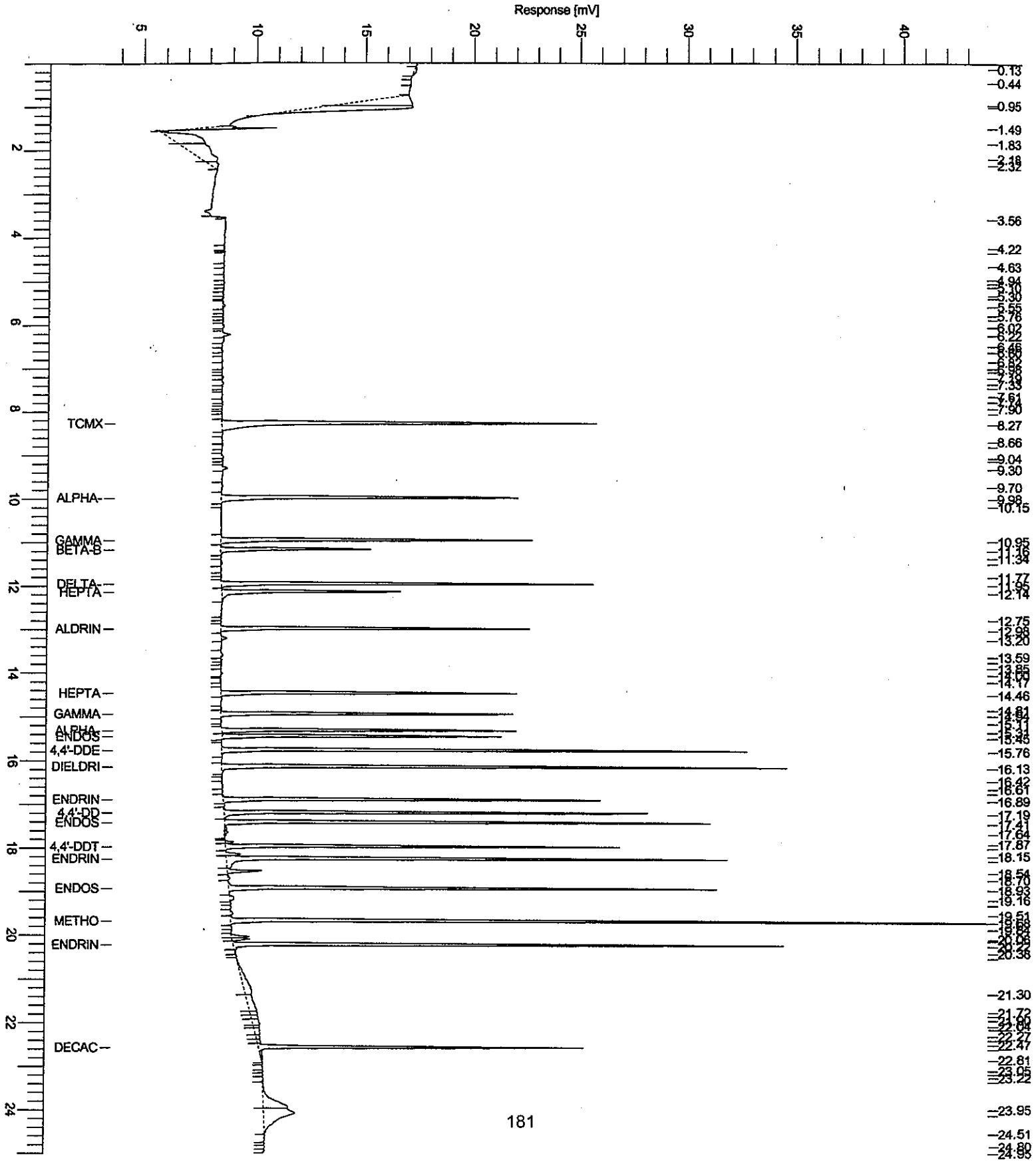
GC23 Rtx-CLPesticides2

ample Name : kcal,04ws0513,level_1 Sample #: Page 1 of 1
ileName : G:\gc23\CHB\232b014.raw
ate : 8/20/04 3:07:44 PM
lethod :
Time of Injection: 8/19/04 10:41:25 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.66 mV High Point : 43.90 mV
lot Offset: 3.66 mV Plot Scale: 40.2 mV



GC23 Rtx-CLPesticides2

mple Name : ical,04ws0513,level_1 Sample #: Page 1 of 1
eName : G:\gc23\CHB\232b014
ate : 8/20/04 1:57:26 PM
ethod : gc23ins Time of Injection: 8/19/04 10:41:25 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 3.77 mV High Point : 43.90 mV
ale Factor: 1.0 Plot Offset: 3.77 mV Plot Scale: 40.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1512,level_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 8/20/04 3:03:25 PM
Data Acquisition Time : 8/19/04 11:10:48 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a015P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.331	109084.50	10.4267	1.000	1	10.43
alpha-BHC	9.970	83249.33	5.1600	1.000	1	5.16
gamma-BHC	10.869	75626.50	5.1672	1.000	1	5.17
beta-BHC	11.131	34184.50	5.2928	1.000	1	5.29
delta-BHC	11.619	80342.32	5.4842	1.000	1	5.48
Heptachlor	12.184	66914.50	5.2086	1.000	1	5.21
Aldrin	12.994	69757.43	5.2309	1.000	1	5.23
Heptachlor epoxide	14.597	64980.00	5.2753	1.000	1	5.28
gamma-Chlordane	14.915	65924.00	5.2737	1.000	1	5.27
alpha-Chlordane	15.251	62806.19	5.2848	1.000	1	5.28
4,4'-DDE	15.448	116857.50	10.1770	1.000	1	10.18
Endosulfan I	15.603	60164.30	5.3655	1.000	1	5.37
Dieldrin	16.213	124164.09	10.3164	1.000	1	10.32
Endrin	16.797	102070.00	11.9334	1.000	1	11.93
4,4'-DDD	16.953	93381.00	9.9249	1.000	1	9.92
Endosulfan II	17.364	109096.59	10.7540	1.000	1	10.75
4,4'-DDT	17.648	93426.08	11.3092	1.000	1	11.31
Endrin aldehyde	18.413	96374.23	11.8981	1.000	1	11.90
Methoxychlor	18.844	201438.94	57.5678	1.000	1	57.57
Endosulfan sulfate	19.497	99840.01	11.4553	1.000	1	11.46
Endrin ketone	20.172	112458.00	10.5248	1.000	1	10.52
Decachlorobiphenyl	22.032	63686.36	10.4643	1.000	1	10.46
		1985826.36	229.4952			229.50

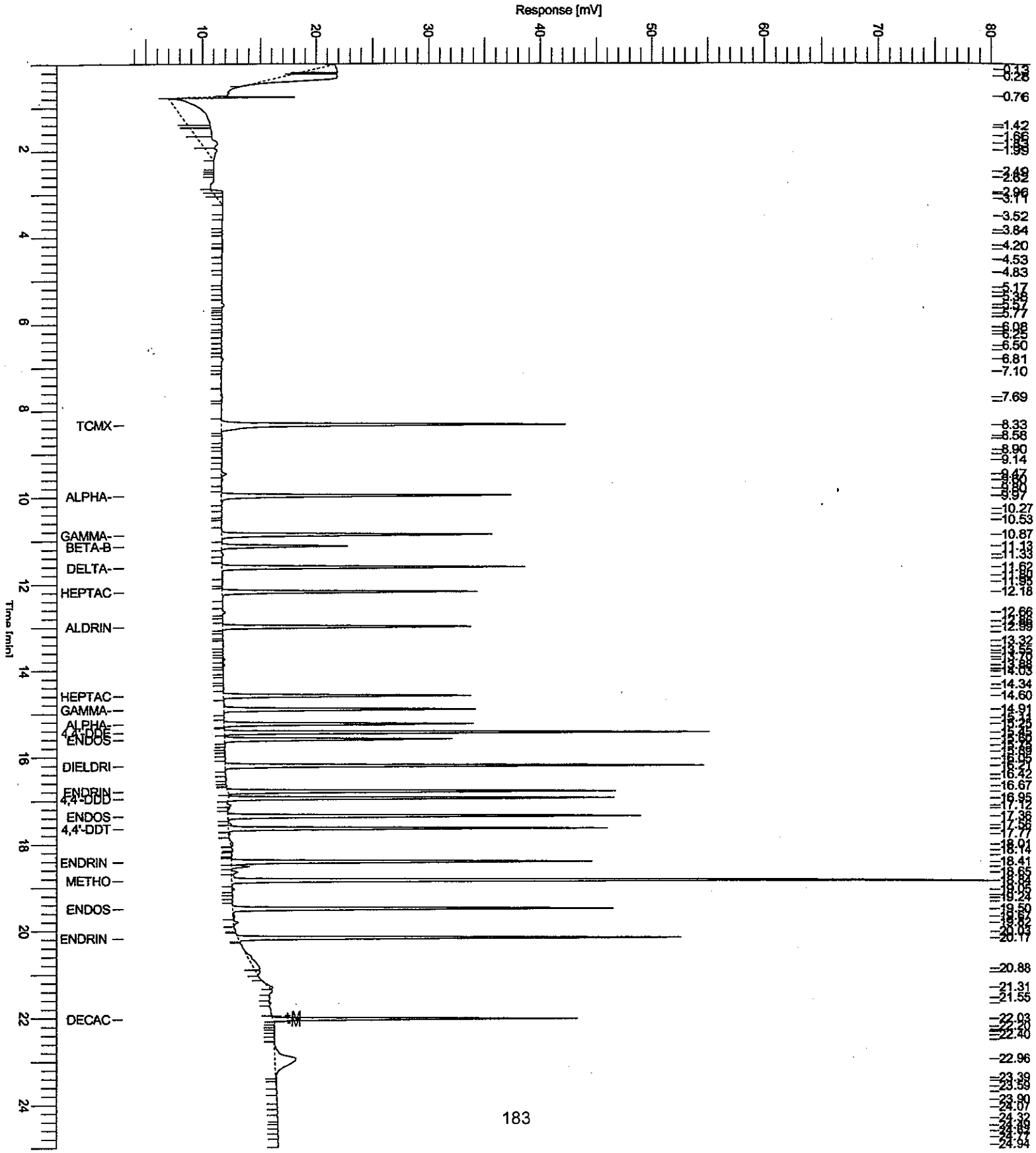
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\232a015P.TX0

RW
8/20/04

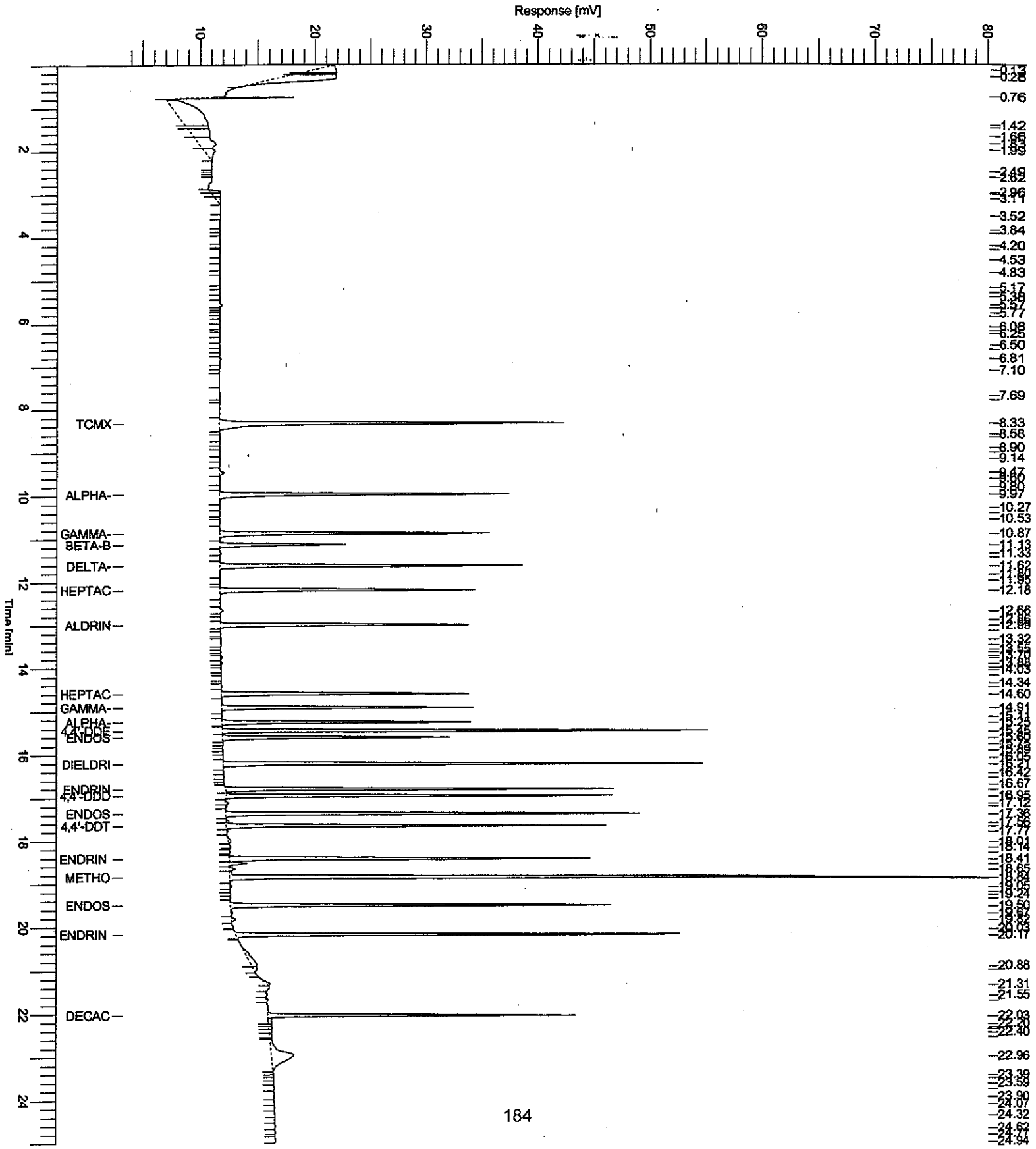
GC23 Rtx-CLPesticides

ample Name : ical,04ws1512,level_2 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\232a015.raw
ate : 8/20/04 3:03:30 PM
lethod :
Time of Injection: 8/19/04 11:10:48 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.12 mV High Point : 80.20 mV
lot Offset: 3.12 mV Plot Scale: 77.1 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1512,level_2 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\232a015.raw
ate : 8/20/04 1:58:09 PM
lethod : gc23ins Time of Injection: 8/19/04 11:10:48 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.31 mV High Point : 80.20 mV
cale Factor: 1.0 Plot Offset: 3.31 mV Plot Scale: 76.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1512,level_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 8/20/04 3:09:02 PM
Data Acquisition Time : 8/19/04 11:10:48 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b015P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

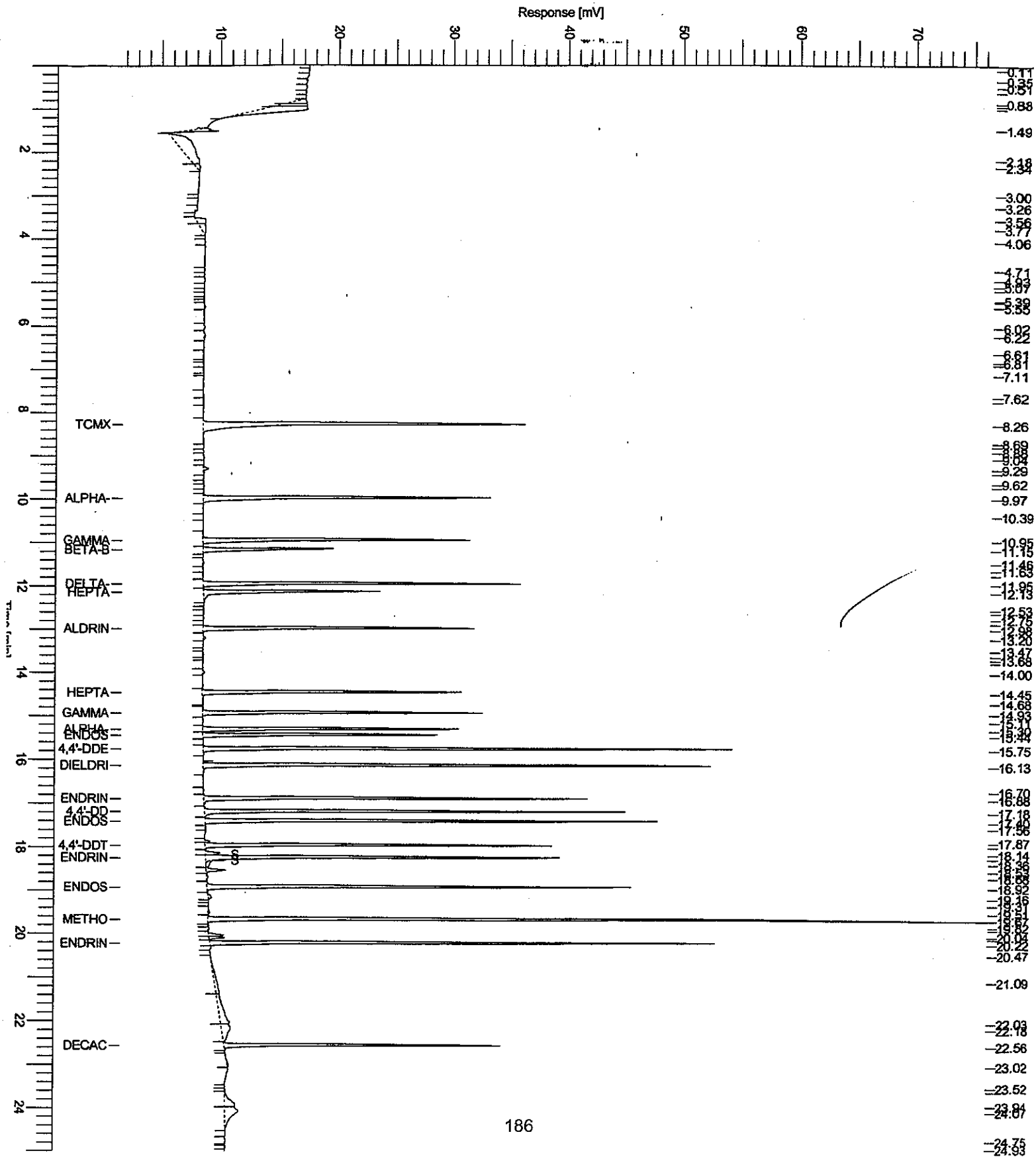
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.264	107253.51	7.6112	1.000	1	7.61
alpha-BHC	9.970	79101.50	3.6269	1.000	1	3.63
gamma-BHC	10.946	73045.00	3.7102	1.000	1	3.71
beta-BHC	11.155	34297.00	3.9440	1.000	1	3.94
delta-BHC	11.949	78483.00	3.9054	1.000	1	3.91
Heptachlor	12.133	46501.50	3.2115	1.000	1	3.21
Aldrin	12.980	68698.00	3.7125	1.000	1	3.71
Heptachlor epoxide	14.454	64617.80	3.8063	1.000	1	3.81
gamma-Chlordane	14.932	65111.00	3.7601	1.000	1	3.76
alpha-Chlordane	15.305	63571.76	3.8384	1.000	1	3.84
Endosulfan I	15.439	59927.11	3.8521	1.000	1	3.85
4,4'-DDE	15.752	117743.00	7.2804	1.000	1	7.28
Dieldrin	16.130	123687.00	7.4546	1.000	1	7.45
Endrin	16.884	91643.36	8.1095	1.000	1	8.11
4,4'-DDD	17.183	95007.00	7.2311	1.000	1	7.23
Endosulfan II	17.402	108542.67	7.6962	1.000	1	7.70
4,4'-DDT	17.962	83012.79	7.7319	1.000	1	7.73
Endrin aldehyde	18.239	94200.02	8.4074	1.000	1	8.41
Endosulfan sulfate	18.919	102253.50	8.1864	1.000	1	8.19
Methoxychlor	19.668	176367.19	36.4921	1.000	1	36.49
Endrin ketone	20.217	107339.50	7.5939	1.000	1	7.59
Decachlorobiphenyl	22.564	62379.24	7.4242	1.000	1	7.42
		1902782.43	158.5866			158.59

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\232b015P.TX0

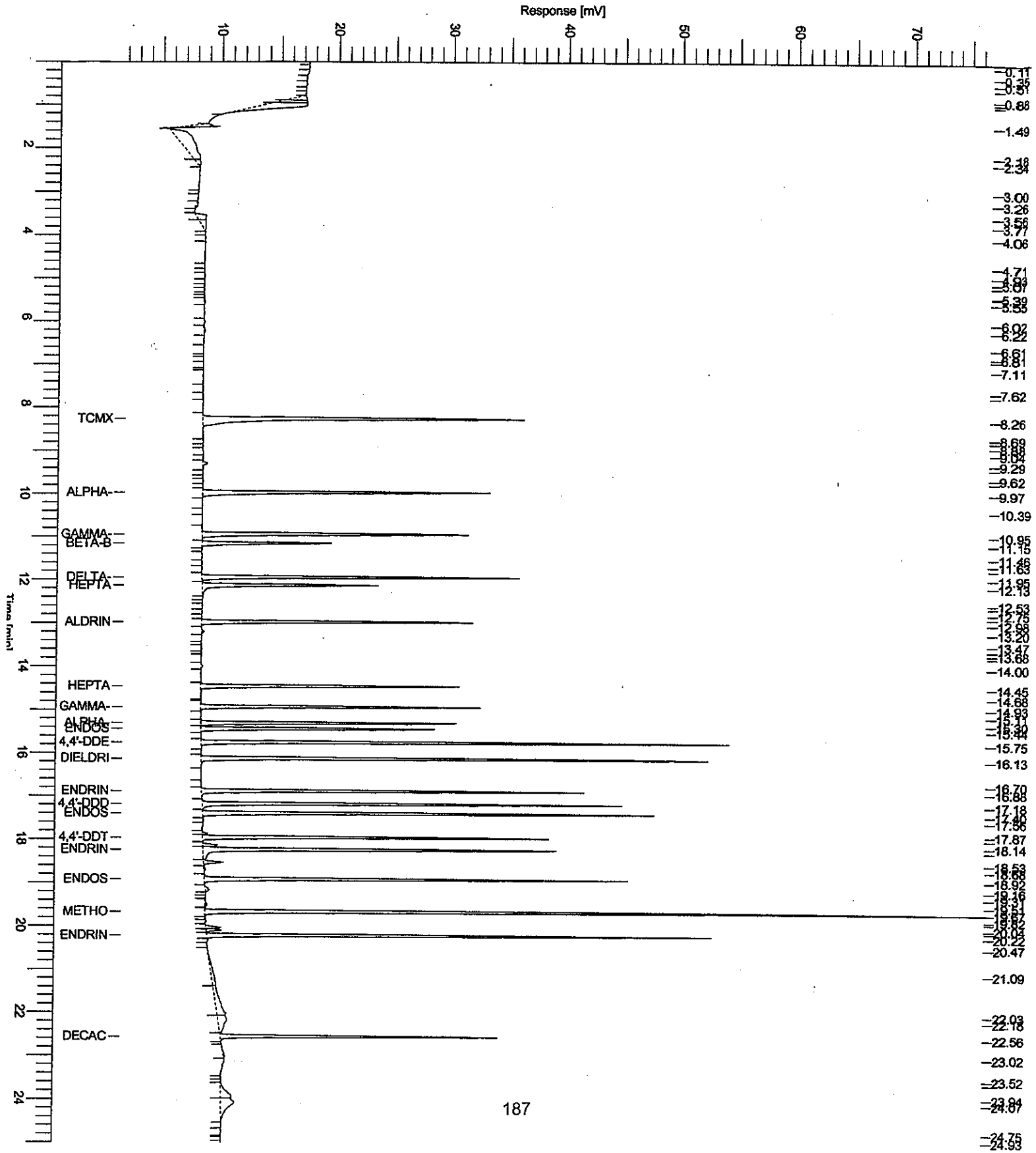
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1512,level_2 Sample #: Page 1 of 1
FileName : G:\gc23\CHB\232b015.raw
Date : 8/20/04 3:09:06 PM
Method : Time of Injection: 8/19/04 11:10:48 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.71 mV High Point : 76.78 mV
Plot Offset: 1.71 mV Plot Scale: 75.1 mV



GC23 Rtx-CLPesticides2

Sample Name : Ical,04ws1512,level_2 Sample #: Page 1 of 1
FileName : G:\gc23\CHB\232b015
Date : 8/20/04 1:57:32 PM
Method : gc23ins Time of Injection: 8/19/04 11:10:48 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.90 mV High Point : 76.78 mV
Scale Factor: 1.0 Plot Offset: 1.90 mV Plot Scale: 74.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0927,level_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 8/20/04 3:03:58 PM
Data Acquisition Time : 8/19/04 11:40:10 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a016P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.331	241998.33	23.1312	1.000	1	23.13
alpha-BHC	9.970	185740.30	11.5125	1.000	1	11.51
gamma-BHC	10.870	169142.00	11.5567	1.000	1	11.56
beta-BHC	11.131	74193.88	11.4875	1.000	1	11.49
delta-BHC	11.619	172652.98	11.7855	1.000	1	11.79
Heptachlor	12.184	150812.55	11.7392	1.000	1	11.74
Aldrin	12.994	152620.14	11.4446	1.000	1	11.44
Heptachlor epoxide	14.597	140807.00	11.4313	1.000	1	11.43
gamma-Chlordane	14.915	140515.50	11.2408	1.000	1	11.24
alpha-Chlordane	15.251	135726.00	11.4206	1.000	1	11.42
4,4'-DDE	15.448	257117.00	22.3922	1.000	1	22.39
Endosulfan I	15.603	131127.50	11.6940	1.000	1	11.69
Dieldrin	16.213	271842.00	22.5865	1.000	1	22.59
Endrin	16.797	232375.50	27.1680	1.000	1	27.17
4,4'-DDD	16.953	205070.00	21.7957	1.000	1	21.80
Endosulfan II	17.364	233000.00	22.9675	1.000	1	22.97
4,4'-DDT	17.648	209150.00	25.3175	1.000	1	25.32
Endrin aldehyde	18.413	181686.28	22.4305	1.000	1	22.43
Methoxychlor	18.845	462753.05	132.2470	1.000	1	132.25
Endosulfan sulfate	19.498	206577.65	23.7020	1.000	1	23.70
Endrin ketone	20.172	239866.40	22.4489	1.000	1	22.45
Decachlorobiphenyl	22.033	158304.63	26.0111	1.000	1	26.01
		4353078.70	507.5107			507.51

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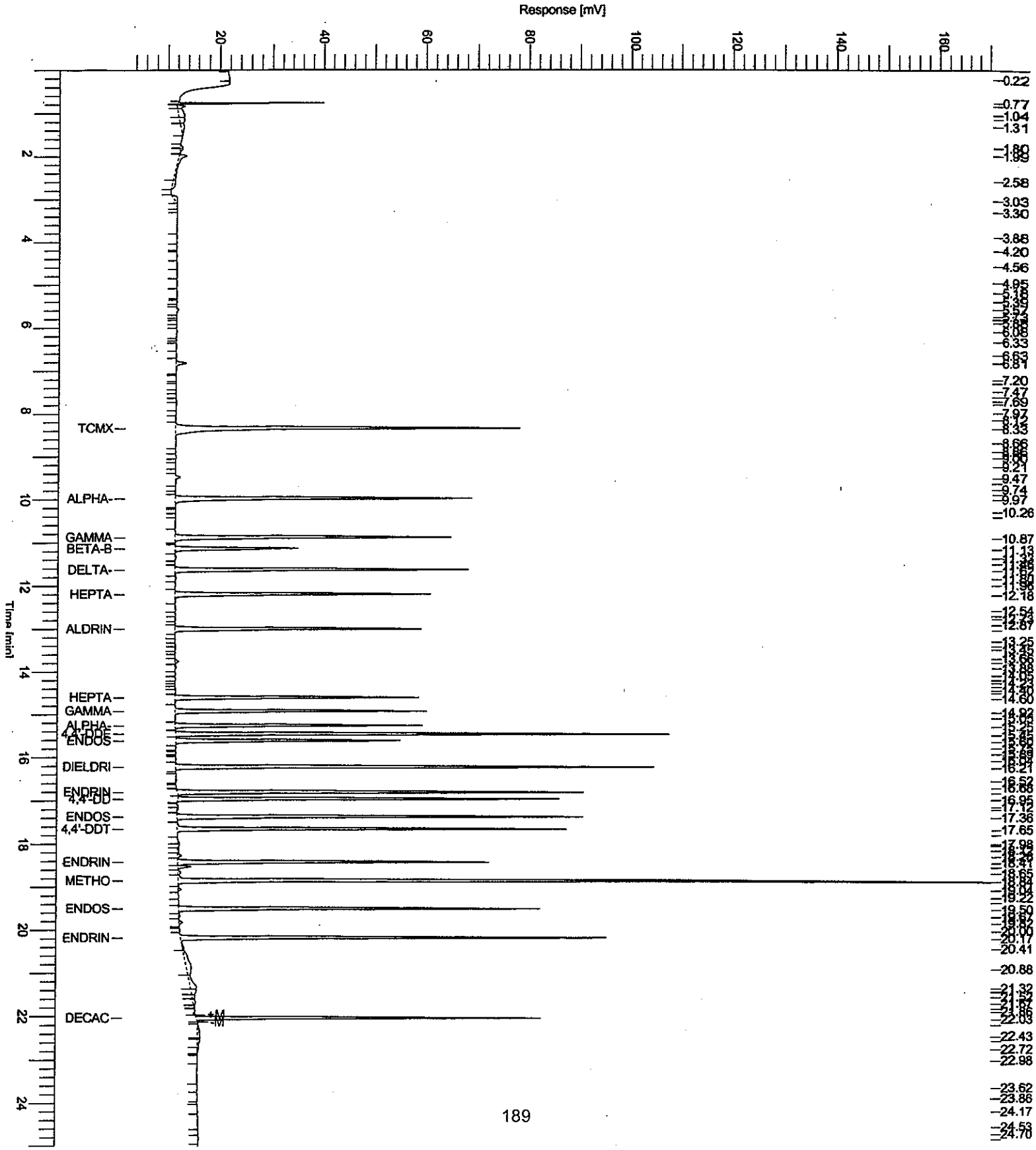
Report stored in ASCII file: G:\gc23\CHA\232a016P.TX0

RW
8/20/04

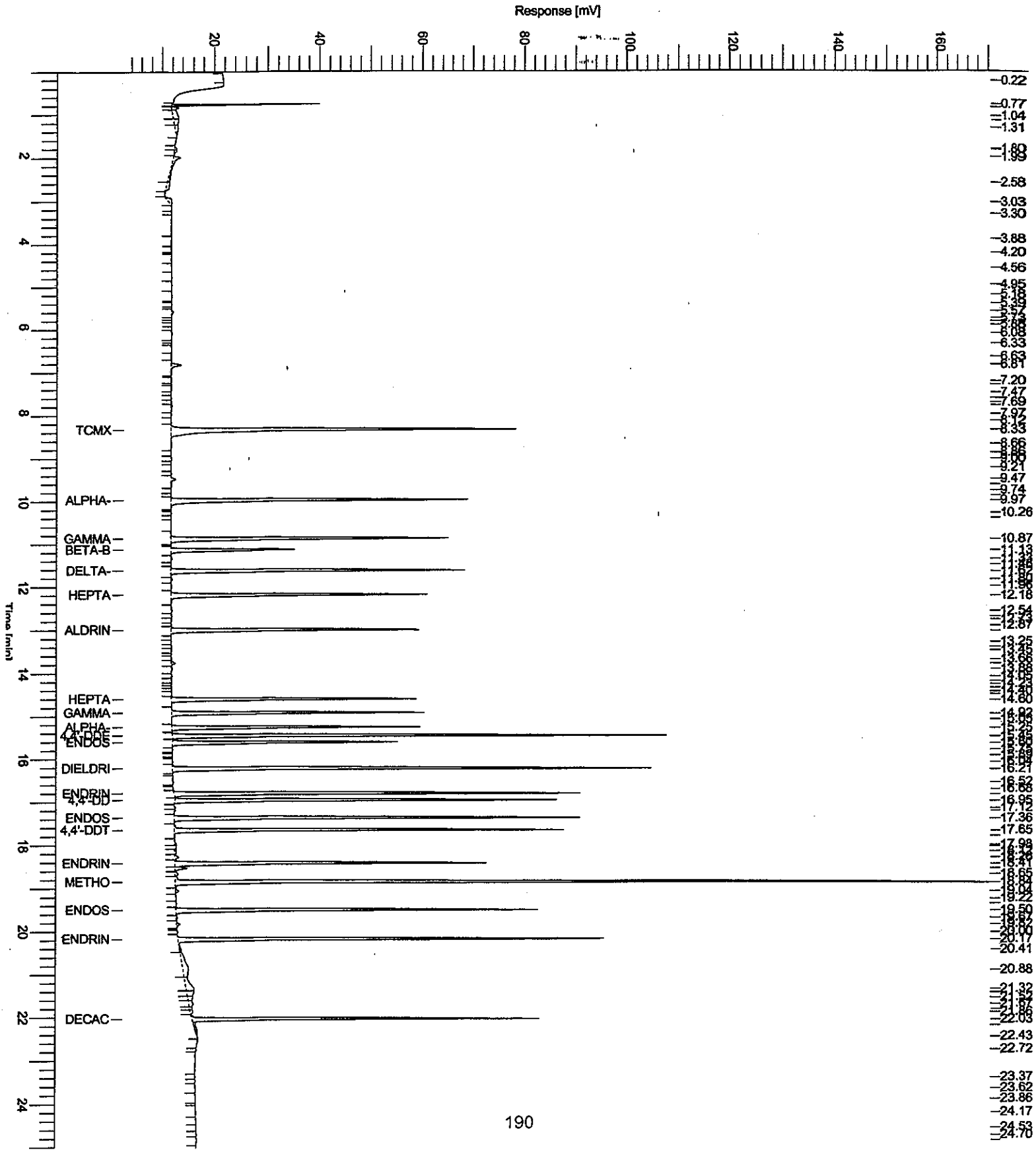
GC23 Rtx-CLPesticides

Sample Name : Ical,04ws0927,level_3 Sample #: Page 1 of 1
FileName : G:\gc23\CHA\232a016.raw
Date : 8/20/04 3:04:02 PM
Method : Time of Injection: 8/19/04 11:40:10 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 2.04 mV High Point : 170.47 mV
Plot Offset: 2.04 mV Plot Scale: 168.4 mV



GC23 Rtx-CLPesticides

ample Name : Ical,04ws0927,level_3 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\232a016.raw
ate : 8/20/04 1:58:14 PM
lethod : gc23ins Time of Injection: 8/19/04 11:40:10 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.46 mV High Point : 170.47 mV
cale Factor: 1.0 Plot Offset: 2.46 mV Plot Scale: 168.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0927,level_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 8/20/04 3:09:52 PM
Data Acquisition Time : 8/19/04 11:40:10 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b016P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

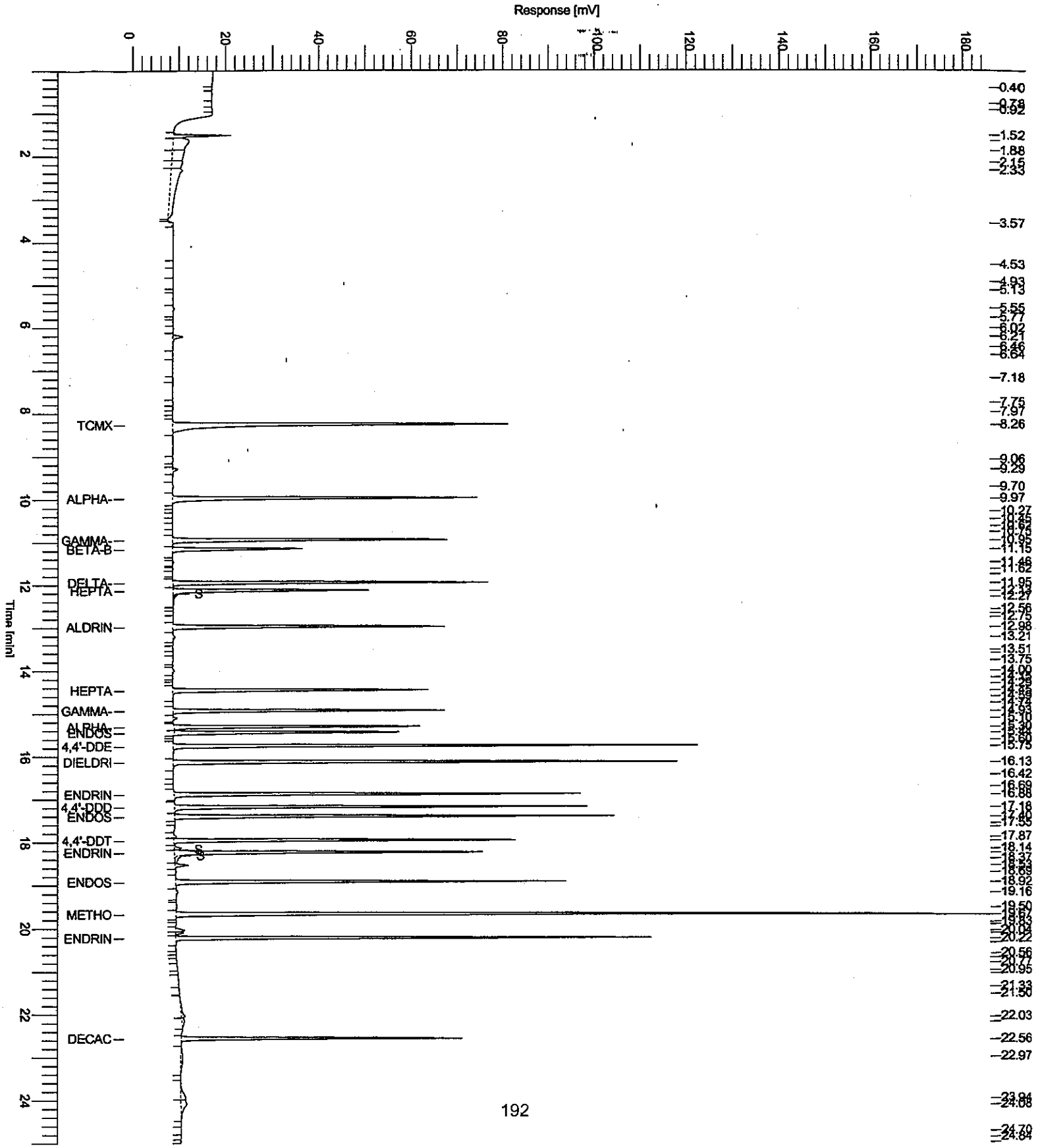
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.263	267932.00	19.0136	1.000	1	19.01
alpha-BHC	9.969	204452.27	9.3745	1.000	1	9.37
gamma-BHC	10.946	186096.00	9.4525	1.000	1	9.45
beta-BHC	11.155	84744.50	9.7452	1.000	1	9.75
delta-BHC	11.949	191187.50	9.5137	1.000	1	9.51
Heptachlor	12.133	124934.79	8.6283	1.000	1	8.63
Aldrin	12.980	171160.50	9.2497	1.000	1	9.25
Heptachlor epoxide	14.454	157890.01	9.3004	1.000	1	9.30
gamma-Chlordane	14.933	158982.00	9.1810	1.000	1	9.18
alpha-Chlordane	15.305	152765.00	9.2239	1.000	1	9.22
Endosulfan I	15.439	144360.50	9.2794	1.000	1	9.28
4,4'-DDE	15.752	291697.00	18.0365	1.000	1	18.04
Dieldrin	16.130	306263.00	18.4585	1.000	1	18.46
Endrin	16.884	239931.00	21.2315	1.000	1	21.23
4,4'-DDD	17.183	231027.00	17.5838	1.000	1	17.58
Endosulfan II	17.402	259812.94	18.4220	1.000	1	18.42
4,4'-DDT	17.962	209212.70	19.4864	1.000	1	19.49
Endrin aldehyde	18.239	202683.02	18.0896	1.000	1	18.09
Endosulfan sulfate	18.918	233333.51	18.6807	1.000	1	18.68
Methoxychlor	19.668	449417.00	92.9888	1.000	1	92.99
Endrin ketone	20.217	251707.50	17.8075	1.000	1	17.81
Decachlorobiphenyl	22.563	159063.74	18.9314	1.000	1	18.93
		4678653.49	391.6790			391.68

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\232b016P.TX0

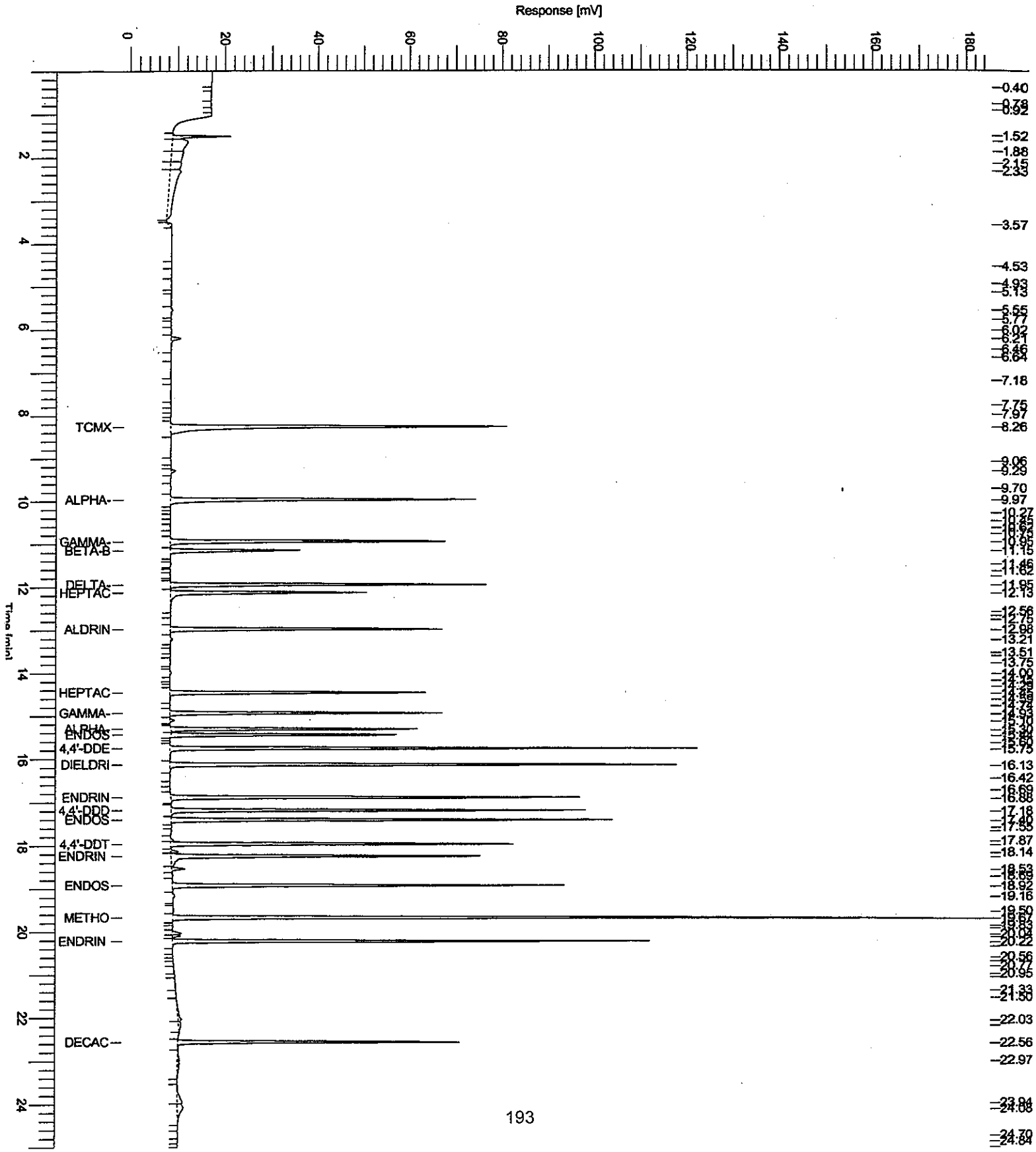
GC23 Rtx-CLPesticides2

ample Name : ical,04ws0927,level_3 Sample #: Page 1 of 1
ileName : G:\gc23\CHB\232b016.raw
ate : 8/20/04 3:09:59 PM
lethod :
Time of Injection: 8/19/04 11:40:10 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.88 mV High Point : 185.78 mV
lot Offset: -1.88 mV Plot Scale: 187.7 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws0927,level_3 Sample #: Page 1 of 1
leName : G:\gc23\CHB\232b016
ate : 8/20/04 1:57:37 PM
ethod : gc23ins Time of Injection: 8/19/04 11:40:10 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.41 mV High Point : 185.78 mV
cale Factor: 1.0 Plot Offset: -1.41 mV Plot Scale: 187.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1434,level_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 8/20/04 3:04:30 PM
Data Acquisition Time : 8/20/04 12:09:25 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a017P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.334	426007.07	40.7195	1.000	1	40.72
alpha-BHC	9.973	326124.00	20.2138	1.000	1	20.21
gamma-BHC	10.873	293479.50	20.0521	1.000	1	20.05
beta-BHC	11.134	125591.00	19.4453	1.000	1	19.45
delta-BHC	11.622	298388.74	20.3683	1.000	1	20.37
Heptachlor	12.187	265144.00	20.6387	1.000	1	20.64
Aldrin	12.998	268129.22	20.1063	1.000	1	20.11
Heptachlor epoxide	14.600	246926.17	20.0464	1.000	1	20.05
gamma-Chlordane	14.918	248717.00	19.8966	1.000	1	19.90
alpha-Chlordane	15.255	238066.00	20.0320	1.000	1	20.03
4,4'-DDE	15.452	473670.50	41.2517	1.000	1	41.25
Endosulfan I	15.612	226533.00	20.2023	1.000	1	20.20
Dieldrin	16.217	492190.42	40.8946	1.000	1	40.89
Endrin	16.801	399390.50	46.6945	1.000	1	46.69
4,4'-DDD	16.962	374455.00	39.7986	1.000	1	39.80
Endosulfan II	17.368	416156.00	41.0218	1.000	1	41.02
4,4'-DDT	17.652	383204.00	46.3866	1.000	1	46.39
Endrin aldehyde	18.418	322449.88	39.8088	1.000	1	39.81
Methoxychlor	18.849	870042.63	248.6435	1.000	1	248.64
Endosulfan sulfate	19.502	360866.67	41.4046	1.000	1	41.40
Endrin ketone	20.181	432891.86	40.5140	1.000	1	40.51
Decachlorobiphenyl	22.034	290173.07	47.6784	1.000	1	47.68
		7778596.22	915.8183			915.82

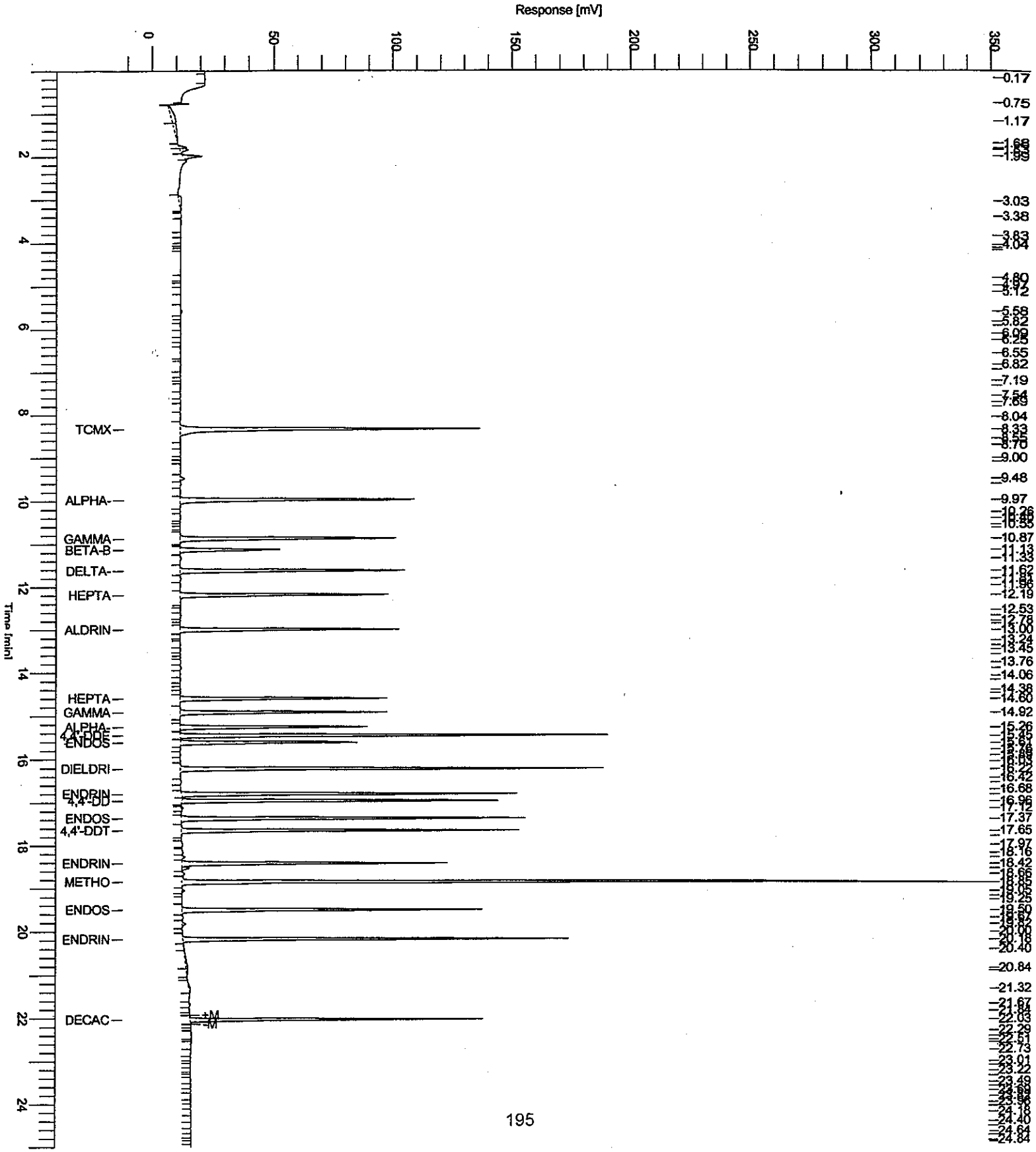
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\232a017P.TX0

RW
8/20/04

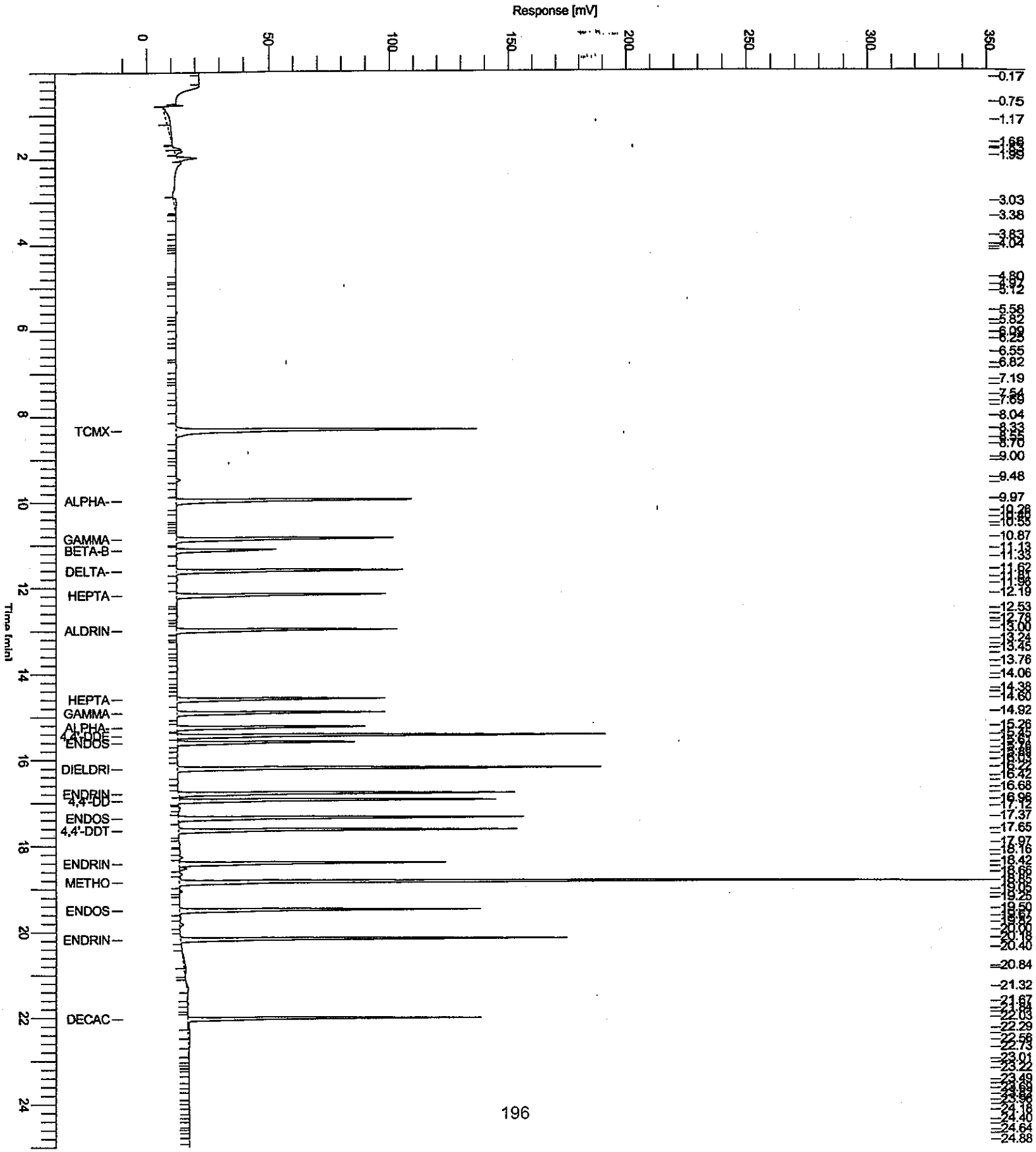
GC23 Rtx-CLPesticides

ample Name : ical,04ws1434,level_4 Sample #: Page 1 of 1
leName : G:\gc23\CHA\232a017.raw
ate : 8/20/04 3:04:34 PM
lethod : Time of Injection: 8/20/04 12:09:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -11.68 mV High Point : 350.95 mV
lot Offset: -11.68 mV Plot Scale: 362.6 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1434,level_4 Sample #: Page 1 of 1
leName : G:\gc23\CHA\232a017.raw
ate : 8/20/04 1:58:19 PM
ethod : gc23ins Time of Injection: 8/20/04 12:09:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -10.77 mV High Point : 350.95 mV
cale Factor: 1.0 Plot Offset: -10.77 mV Plot Scale: 361.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1434,level_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 8/20/04 3:11:35 PM
Data Acquisition Time : 8/20/04 12:09:25 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b017P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

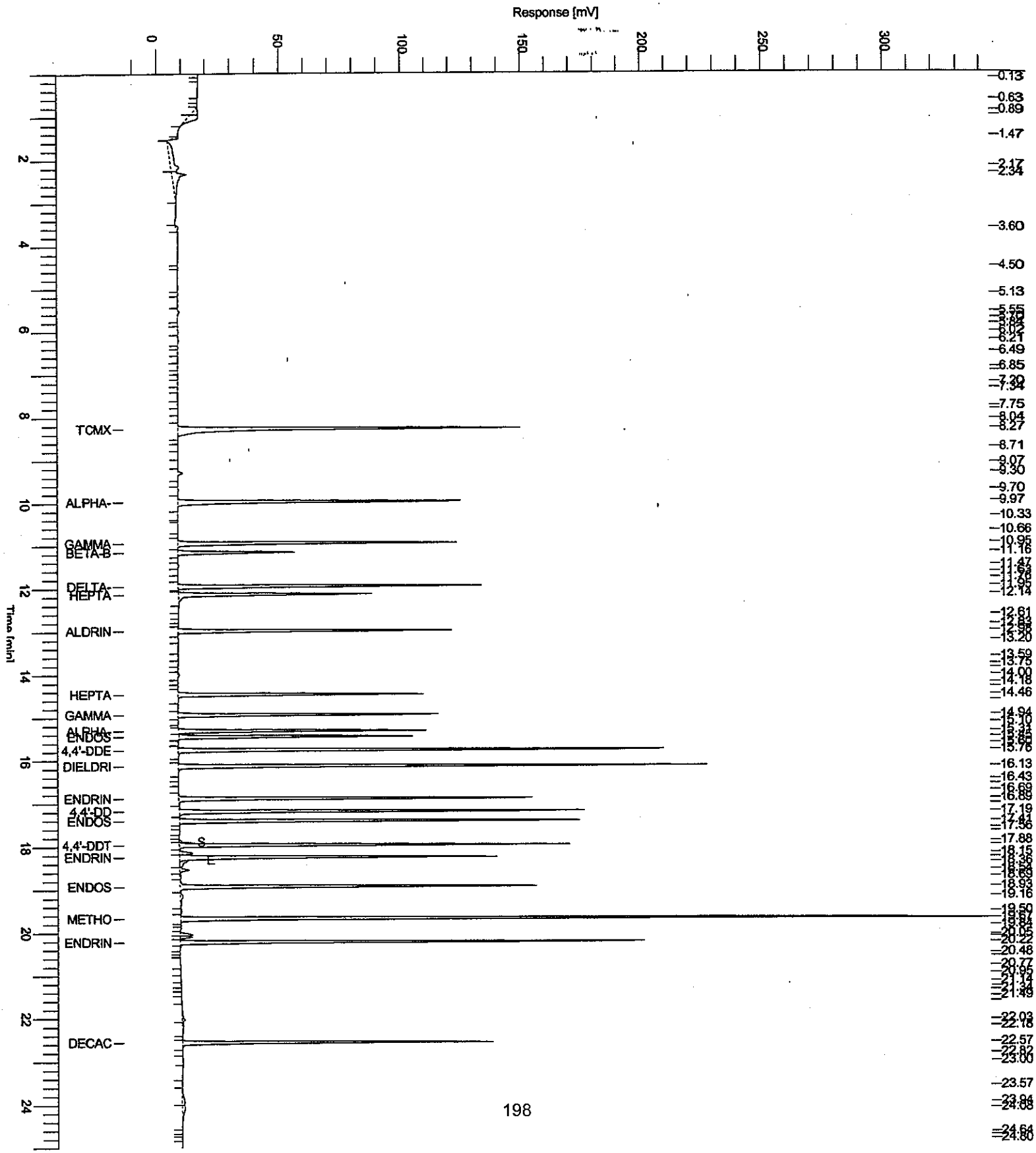
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.266	487086.00	34.5657	1.000	1	34.57
alpha-BHC	9.972	372542.09	17.0816	1.000	1	17.08
gamma-BHC	10.949	337173.00	17.1263	1.000	1	17.13
beta-BHC	11.162	148533.50	17.0807	1.000	1	17.08
delta-BHC	11.952	345751.00	17.2050	1.000	1	17.21
Heptachlor	12.136	239522.00	16.5419	1.000	1	16.54
Aldrin	12.983	311992.50	16.8604	1.000	1	16.86
Heptachlor epoxide	14.463	287304.00	16.9234	1.000	1	16.92
gamma-Chlordane	14.936	293348.50	16.9405	1.000	1	16.94
alpha-Chlordane	15.313	281115.00	16.9737	1.000	1	16.97
Endosulfan I	15.448	265576.00	17.0710	1.000	1	17.07
4,4'-DDE	15.756	565846.50	34.9879	1.000	1	34.99
Dieldrin	16.134	580714.42	34.9998	1.000	1	35.00
Endrin	16.888	431038.15	38.1426	1.000	1	38.14
4,4'-DDD	17.187	446439.85	33.9792	1.000	1	33.98
Endosulfan II	17.411	492489.00	34.9199	1.000	1	34.92
4,4'-DDT	17.966	413785.36	38.5406	1.000	1	38.54
Endrin aldehyde	18.248	377876.95	33.7259	1.000	1	33.73
Endosulfan sulfate	18.928	444968.53	35.6243	1.000	1	35.62
Methoxychlor	19.672	929338.87	192.2894	1.000	1	192.29
Endrin ketone	20.220	488951.00	34.5918	1.000	1	34.59
Decachlorobiphenyl	22.566	317318.50	37.7665	1.000	1	37.77
		8858710.73	753.9380			753.94

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\232b017P.TX0

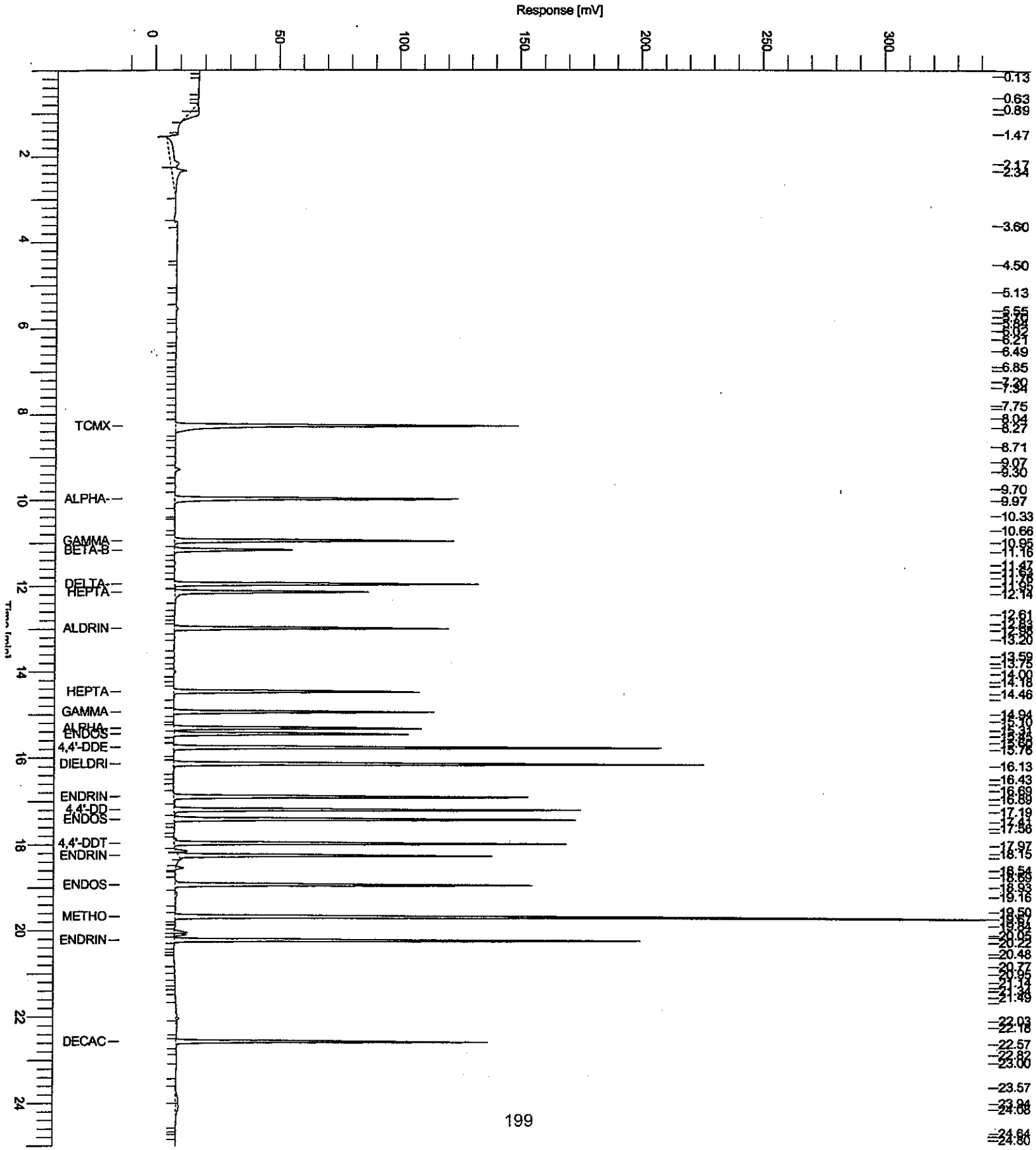
GC23 Rtx-CLPesticides2

ample Name : lcal,04ws1434,level_4 Sample #: Page 1 of 1
leName : G:\gc23\CHB\232b017.raw
ate : 8/20/04 3:11:42 PM
ethod :
Time of Injection: 8/20/04 12:09:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -13.61 mV High Point : 344.45 mV
ot Offset: -13.61 mV Plot Scale: 358.1 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1434,level_4 Sample #: Page 1 of 1
ileName : G:\gc23\CHB\232b017
ate : 8/20/04 1:57:42 PM
ethod : gc23ins Time of Injection: 8/20/04 12:09:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -12.72 mV High Point : 344.45 mV
cale Factor: 1.0 Plot Offset: -12.72 mV Plot Scale: 357.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1509,level_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 8/20/04 3:04:59 PM
Data Acquisition Time : 8/20/04 12:38:43 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a018P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.333	496316.86	47.4400	1.000	1	47.44
alpha-BHC	9.972	390140.50	24.1816	1.000	1	24.18
gamma-BHC	10.872	348877.00	23.8371	1.000	1	23.84
beta-BHC	11.133	147231.00	22.7958	1.000	1	22.80
delta-BHC	11.621	349447.86	23.8536	1.000	1	23.85
Heptachlor	12.186	312548.34	24.3286	1.000	1	24.33
Aldrin	12.997	318471.16	23.8813	1.000	1	23.88
Heptachlor epoxide	14.599	291725.53	23.6834	1.000	1	23.68
gamma-Chlordane	14.917	294483.00	23.5578	1.000	1	23.56
alpha-Chlordane	15.254	281391.00	23.6776	1.000	1	23.68
4,4'-DDE	15.450	561592.00	48.9087	1.000	1	48.91
Endosulfan I	15.610	265883.00	23.7116	1.000	1	23.71
Dieldrin	16.216	588737.77	48.9164	1.000	1	48.92
Endrin	16.799	469316.50	54.8698	1.000	1	54.87
4,4'-DDD	16.955	438615.00	46.6178	1.000	1	46.62
Endosulfan II	17.366	490372.00	48.3375	1.000	1	48.34
4,4'-DDT	17.650	445150.50	53.8852	1.000	1	53.89
Endrin aldehyde	18.416	380264.28	46.9464	1.000	1	46.95
Methoxychlor	18.847	990216.68	282.9872	1.000	1	282.99
Endosulfan sulfate	19.500	416639.50	47.8038	1.000	1	47.80
Endrin ketone	20.179	505151.14	47.2767	1.000	1	47.28
Decachlorobiphenyl	22.033	289942.32	47.6405	1.000	1	47.64
		9072512.94	1059.1384			1059.14

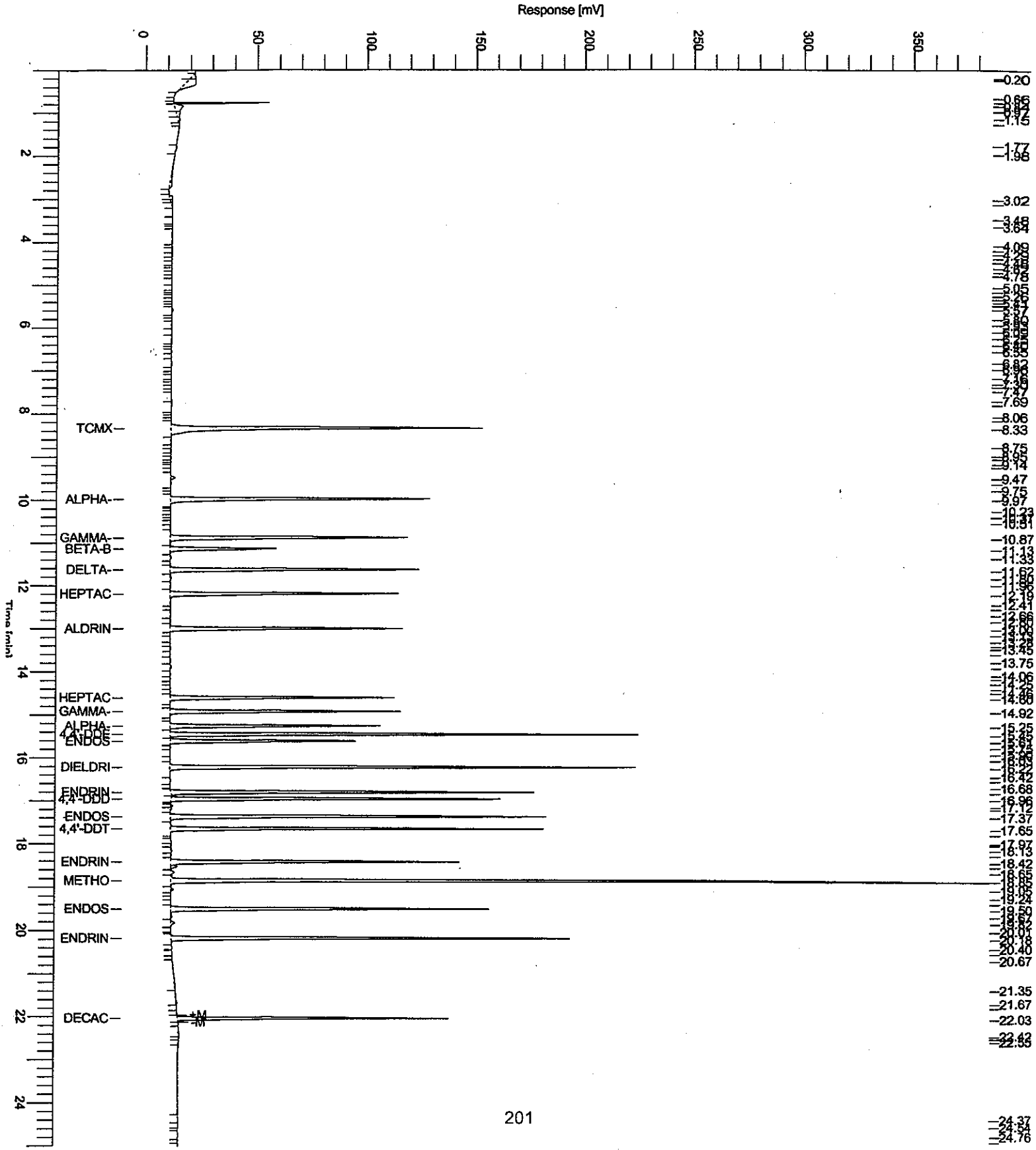
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\232a018P.TX0

RM
8/20/04

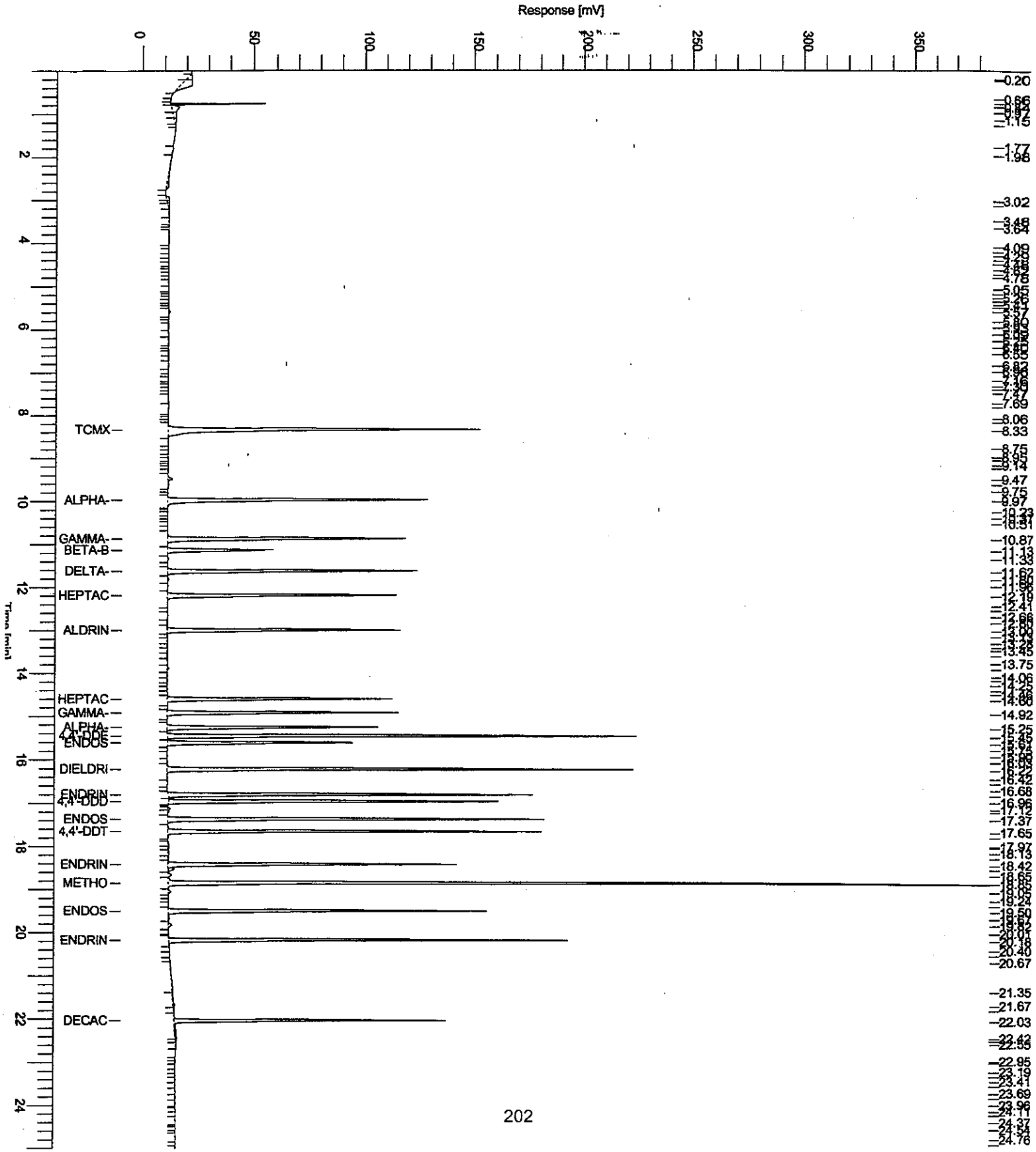
GC23 Rtx-CLPesticides

ample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\232a018.raw
ate : 8/20/04 3:05:04 PM
ethod : Time of Injection: 8/20/04 12:38:43 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -9.59 mV High Point : 386.39 mV
lot Offset: -9.59 mV Plot Scale: 396.0 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\232a018.raw
ate : 8/20/04 1:58:25 PM
lethod : gc23ins Time of Injection: 8/20/04 12:38:43 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.60 mV High Point : 386.39 mV
cale Factor: 1.0 Plot Offset: -8.60 mV Plot Scale: 395.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1509,level_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 8/20/04 3:12:23 PM
Data Acquisition Time : 8/20/04 12:38:43 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b018P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

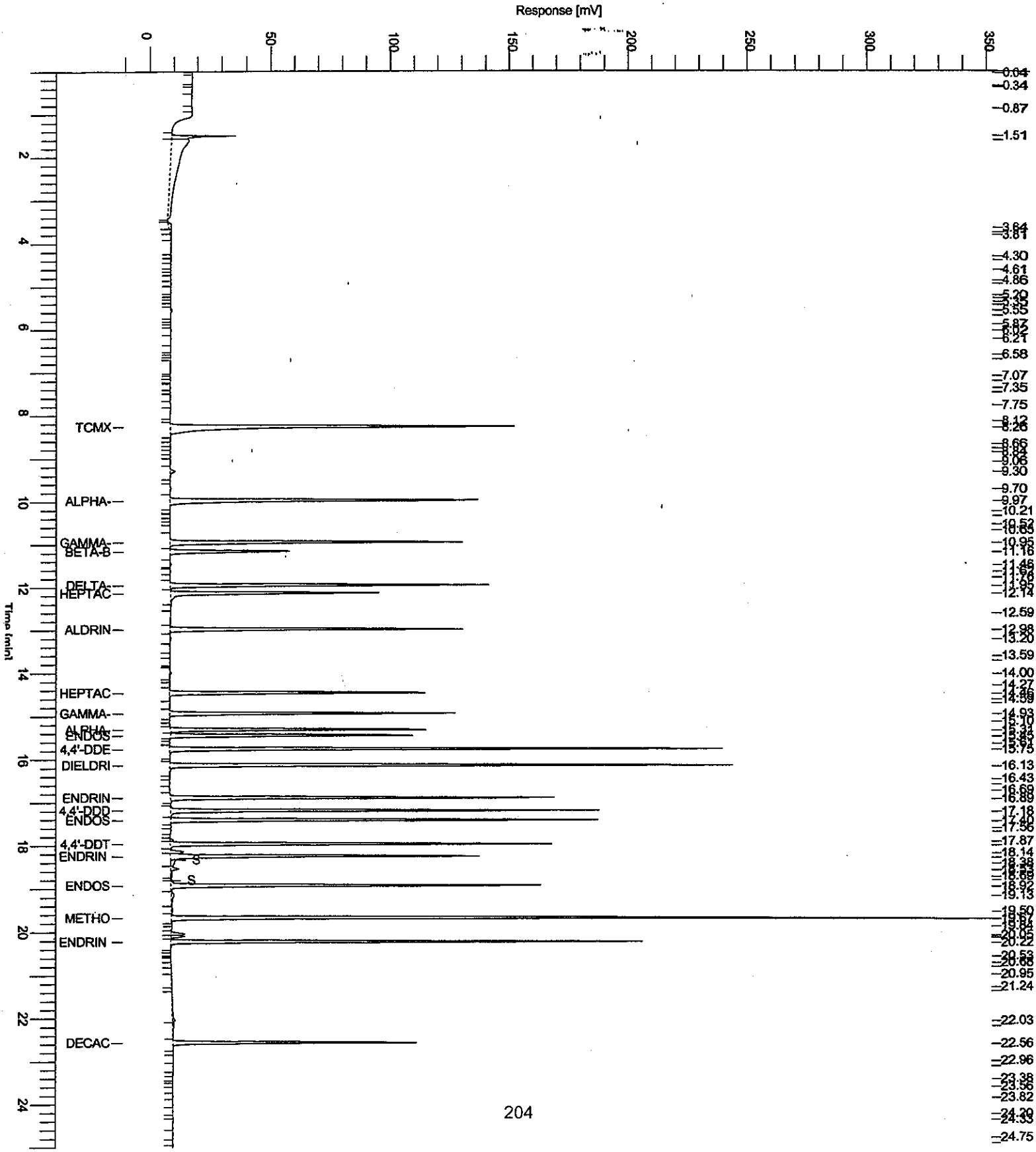
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.265	539540.00	38.2880	1.000	1	38.29
alpha-BHC	9.972	420040.00	19.2595	1.000	1	19.26
gamma-BHC	10.948	374481.78	19.0214	1.000	1	19.02
beta-BHC	11.161	162473.14	18.6837	1.000	1	18.68
delta-BHC	11.951	374237.00	18.6225	1.000	1	18.62
Heptachlor	12.135	261572.00	18.0647	1.000	1	18.06
Aldrin	12.982	346985.00	18.7514	1.000	1	18.75
Heptachlor epoxide	14.461	315622.16	18.5914	1.000	1	18.59
gamma-Chlordane	14.935	319463.36	18.4485	1.000	1	18.45
alpha-Chlordane	15.312	304432.00	18.3815	1.000	1	18.38
Endosulfan I	15.446	286932.50	18.4438	1.000	1	18.44
4,4'-DDE	15.753	610348.00	37.7395	1.000	1	37.74
Dieldrin	16.133	627490.66	37.8190	1.000	1	37.82
Endrin	16.887	450019.00	39.8222	1.000	1	39.82
4,4'-DDD	17.185	460773.50	35.0702	1.000	1	35.07
Endosulfan II	17.404	511401.97	36.2609	1.000	1	36.26
4,4'-DDT	17.964	420620.13	39.1772	1.000	1	39.18
Endrin aldehyde	18.246	388349.36	34.6605	1.000	1	34.66
Endosulfan sulfate	18.921	445469.07	35.6644	1.000	1	35.66
Methoxychlor	19.670	896518.30	185.4985	1.000	1	185.50
Endrin ketone	20.219	484891.00	34.3045	1.000	1	34.30
Decachlorobiphenyl	22.564	265631.41	31.6148	1.000	1	31.61
		9267291.32	772.1884			772.19

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\232b018P.TX0

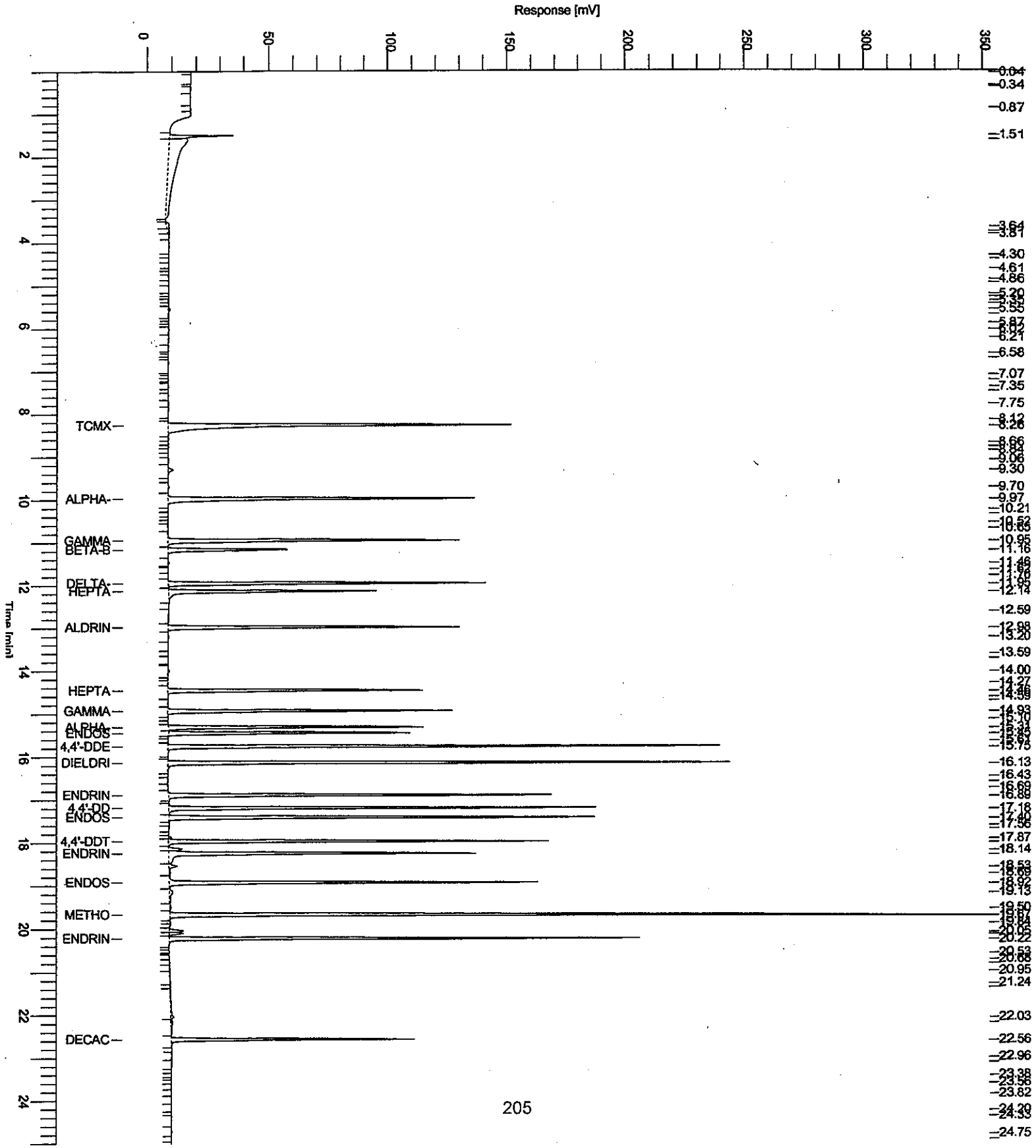
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
leName : G:\gc23\CHB\232b018.raw
ate : 8/20/04 3:12:27 PM
ethod : Time of Injection: 8/20/04 12:38:43 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -10.79 mV High Point : 352.78 mV
lot Offset: -10.79 mV Plot Scale: 363.6 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
ileName : G:\gc23\CHB\232b018
ate : 8/20/04 1:57:47 PM
lethod : gc23ins Time of Injection: 8/20/04 12:38:43 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -9.88 mV High Point : 352.78 mV
cale Factor: 1.0 Plot Offset: -9.88 mV Plot Scale: 362.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1508,level_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 8/20/04 3:05:31 PM
Data Acquisition Time : 8/20/04 1:08:11 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a019P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.331	1034414.50	98.8735	1.000	1	98.87
alpha-BHC	9.970	820240.46	50.8401	1.000	1	50.84
gamma-BHC	10.870	718033.00	49.0598	1.000	1	49.06
beta-BHC	11.131	284242.92	44.0095	1.000	1	44.01
delta-BHC	11.619	717043.80	48.9461	1.000	1	48.95
Heptachlor	12.184	644053.00	50.1327	1.000	1	50.13
Aldrin	12.995	647841.50	48.5799	1.000	1	48.58
Heptachlor epoxide	14.598	581586.30	47.2154	1.000	1	47.22
gamma-Chlordane	14.916	594275.81	47.5403	1.000	1	47.54
alpha-Chlordane	15.252	563837.00	47.4439	1.000	1	47.44
4,4'-DDE	15.449	1169072.00	101.8137	1.000	1	101.81
Endosulfan I	15.604	527446.00	47.0379	1.000	1	47.04
Dieldrin	16.215	1199978.77	99.7025	1.000	1	99.70
Endrin	16.798	980149.00	114.5934	1.000	1	114.59
4,4'-DDD	16.954	925388.00	98.3540	1.000	1	98.35
Endosulfan II	17.365	1008118.00	99.3733	1.000	1	99.37
4,4'-DDT	17.649	946333.00	114.5531	1.000	1	114.55
Endrin aldehyde	18.415	762062.88	94.0823	1.000	1	94.08
Methoxychlor	18.846	1797979.65	513.8322	1.000	1	513.83
Endosulfan sulfate	19.499	867944.08	99.5849	1.000	1	99.58
Endrin ketone	20.178	1025836.99	96.0072	1.000	1	96.01
Decachlorobiphenyl	22.034	581640.90	95.5696	1.000	1	95.57
		18397517.56	2107.1454			2107.15

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Report stored in ASCII file: G:\gc23\CHA\232a019P.TX0

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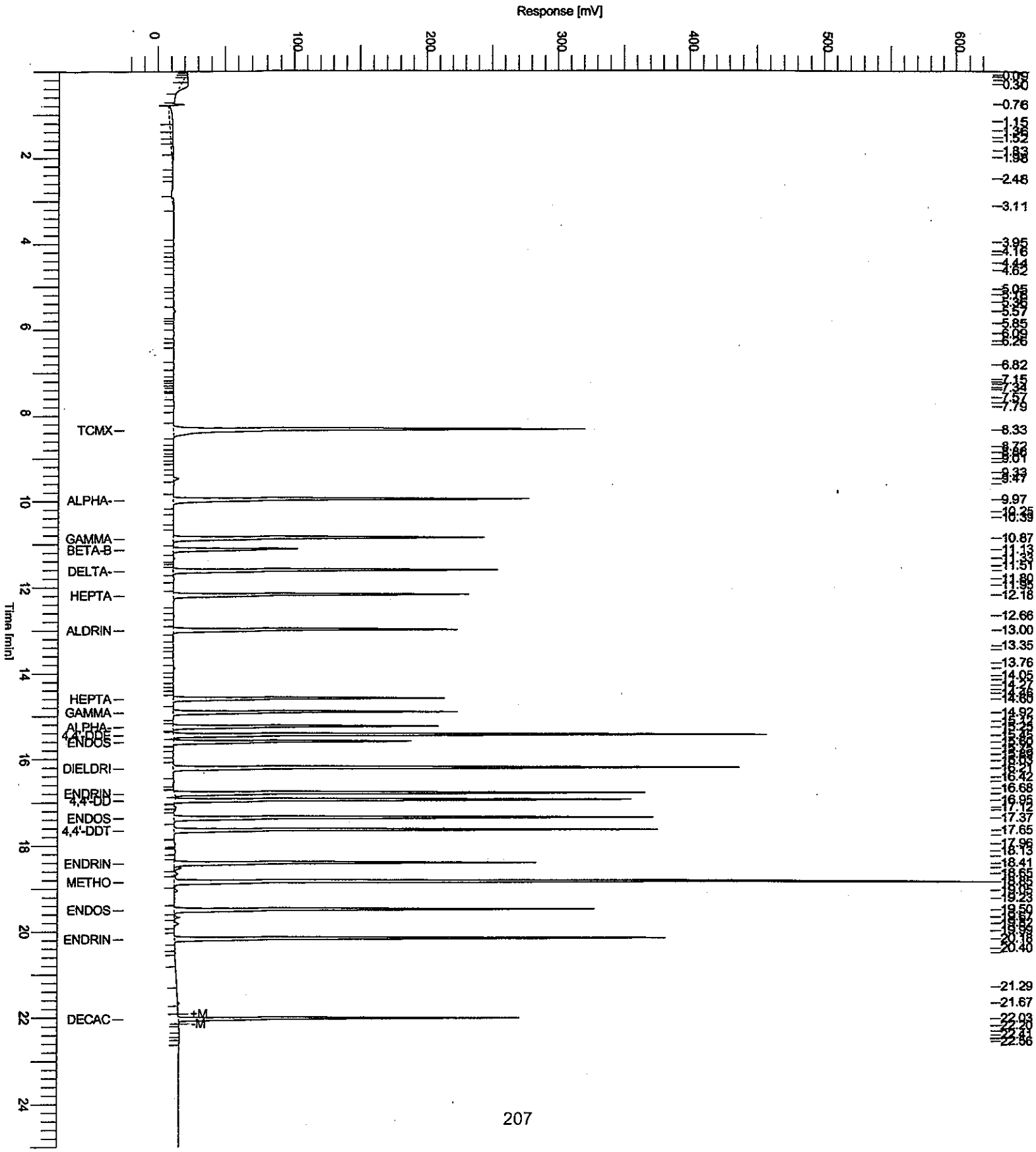
8/20/04

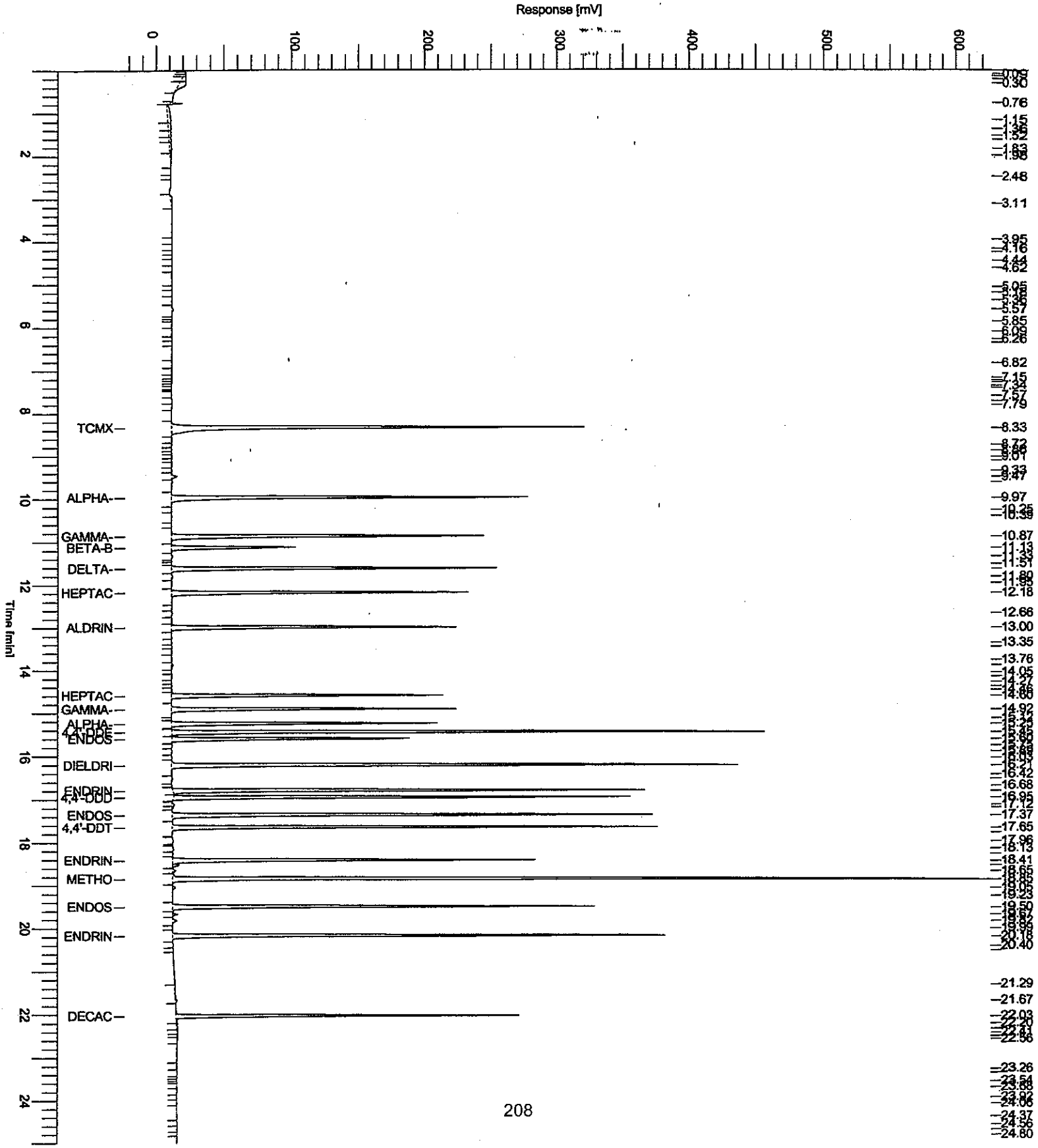
GC23 Rtx-CLPesticides

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\232a019.raw
ate : 8/20/04 3:05:36 PM
lethod :
Time of Injection: 8/20/04 1:08:11 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -24.94 mV High Point : 627.00 mV
lot Offset: -24.94 mV Plot Scale: 651.9 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\232a019.raw
ate : 8/20/04 1:58:31 PM
lethod : gc23ins Time of Injection: 8/20/04 1:08:11 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -23.31 mV High Point : 627.00 mV
cale Factor: 1.0 Plot Offset: -23.31 mV Plot Scale: 650.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1508,level_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 8/20/04 3:13:25 PM
Data Acquisition Time : 8/20/04 1:08:11 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b019P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

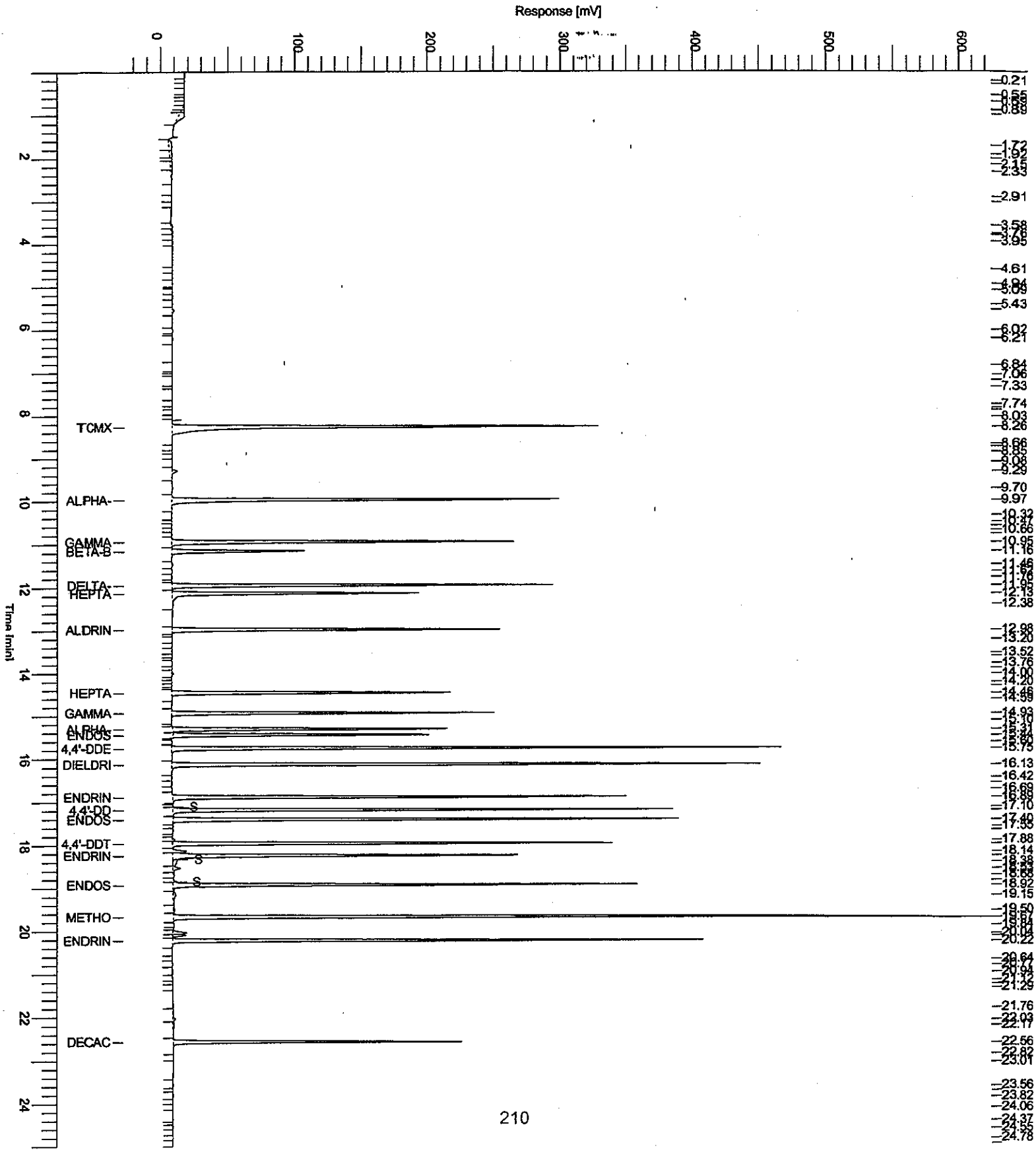
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.264	1086675.80	77.1150	1.000	1	77.12
alpha-BHC	9.970	863499.63	39.5928	1.000	1	39.59
gamma-BHC	10.947	756648.00	38.4331	1.000	1	38.43
beta-BHC	11.156	309143.88	35.5501	1.000	1	35.55
delta-BHC	11.950	765785.00	38.1064	1.000	1	38.11
Heptachlor	12.134	538543.00	37.1930	1.000	1	37.19
Aldrin	12.981	688538.00	37.2093	1.000	1	37.21
Heptachlor epoxide	14.455	613820.00	36.1565	1.000	1	36.16
gamma-Chlordane	14.933	634273.00	36.6283	1.000	1	36.63
alpha-Chlordane	15.306	596928.00	36.0424	1.000	1	36.04
Endosulfan I	15.445	560960.00	36.0581	1.000	1	36.06
4,4'-DDE	15.752	1203438.50	74.4120	1.000	1	74.41
Dieldrin	16.131	1225318.62	73.8503	1.000	1	73.85
Endrin	16.885	927133.00	82.0421	1.000	1	82.04
4,4'-DDD	17.183	952028.03	72.4603	1.000	1	72.46
Endosulfan II	17.402	1042047.50	73.8863	1.000	1	73.89
4,4'-DDT	17.963	887212.77	82.6364	1.000	1	82.64
Endrin aldehyde	18.239	789273.80	70.4434	1.000	1	70.44
Endosulfan sulfate	18.919	933565.91	74.7415	1.000	1	74.74
Methoxychlor	19.668	1667134.62	344.9466	1.000	1	344.95
Endrin ketone	20.218	987156.50	69.8382	1.000	1	69.84
Decachlorobiphenyl	22.564	538264.34	64.0630	1.000	1	64.06
		18567387.90	1531.4052			1531.41

CURTIS & TOMPKINS LTD

Report stored in ASCII file: G:\gc23\CHB\232b019P.TX0

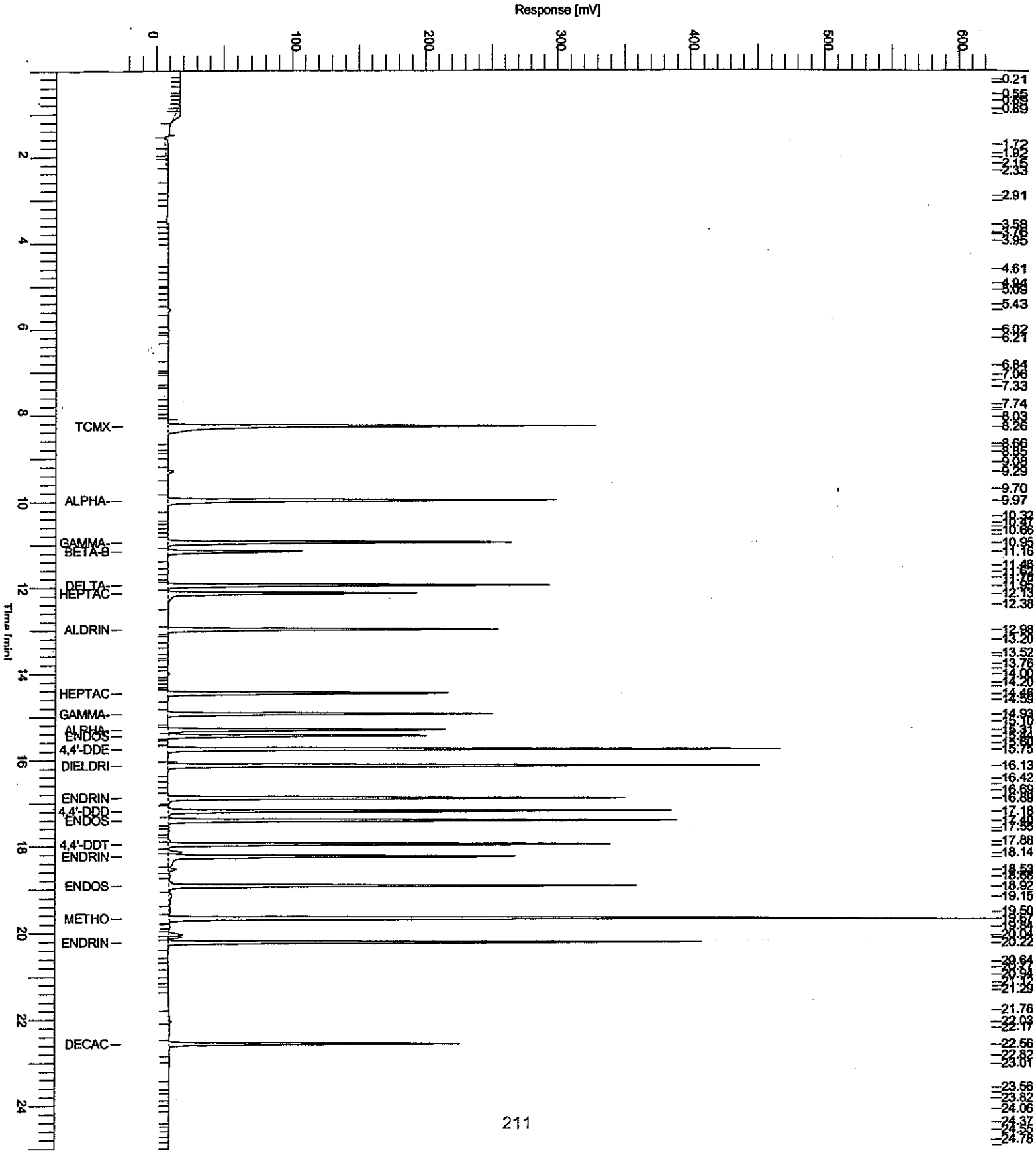
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
ileName : G:\gc23\CHB\232b019.raw
ate : 8/20/04 3:13:29 PM
lethod :
Time of Injection: 8/20/04 1:08:11 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -26.82 mV High Point : 625.00 mV
lot Offset: -26.82 mV Plot Scale: 651.8 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
ileName : G:\gc23\CHB\232b019
ate : 8/20/04 1:57:52 PM
lethod : gc23ins Time of Injection: 8/20/04 1:08:11 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -25.19 mV High Point : 625.00 mV
cale Factor: 1.0 Plot Offset: -25.19 mV Plot Scale: 650.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1507,level_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/20/04 3:06:39 PM
Data Acquisition Time : 8/20/04 1:37:31 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a020P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.333	2037195.00	194.7233	1.000	1	194.72
alpha-BHC	9.971	1678596.80	104.0426	1.000	1	104.04
gamma-BHC	10.871	1502318.00	102.6463	1.000	1	102.65
beta-BHC	11.132	576267.00	89.2237	1.000	1	89.22
delta-BHC	11.620	1498717.77	102.3039	1.000	1	102.30
Heptachlor	12.185	1353812.35	105.3800	1.000	1	105.38
Aldrin	12.996	1349138.66	101.1683	1.000	1	101.17
Heptachlor epoxide	14.598	1199606.00	97.3886	1.000	1	97.39
gamma-Chlordane	14.916	1241829.00	99.3426	1.000	1	99.34
alpha-Chlordane	15.252	1180633.00	99.3441	1.000	1	99.34
4,4'-DDE	15.449	2162911.50	188.3666	1.000	1	188.37
Endosulfan I	15.605	1096826.50	97.8156	1.000	1	97.82
Dieldrin	16.215	2213090.44	183.8788	1.000	1	183.88
Endrin	16.798	1862518.00	217.7550	1.000	1	217.75
4,4'-DDD	16.954	1764493.00	187.5375	1.000	1	187.54
Endosulfan II	17.366	1888870.50	186.1918	1.000	1	186.19
4,4'-DDT	17.649	1818994.00	220.1883	1.000	1	220.19
Endrin aldehyde	18.415	1504032.42	185.6839	1.000	1	185.68
Methoxychlor	18.846	2956704.27	844.9762	1.000	1	844.98
Endosulfan sulfate	19.499	1719189.64	197.2540	1.000	1	197.25
Endrin ketone	20.178	1883928.06	176.3152	1.000	1	176.32
Decachlorobiphenyl	22.033	1260224.77	207.0679	1.000	1	207.07
		35749896.69	3988.5940			3988.59

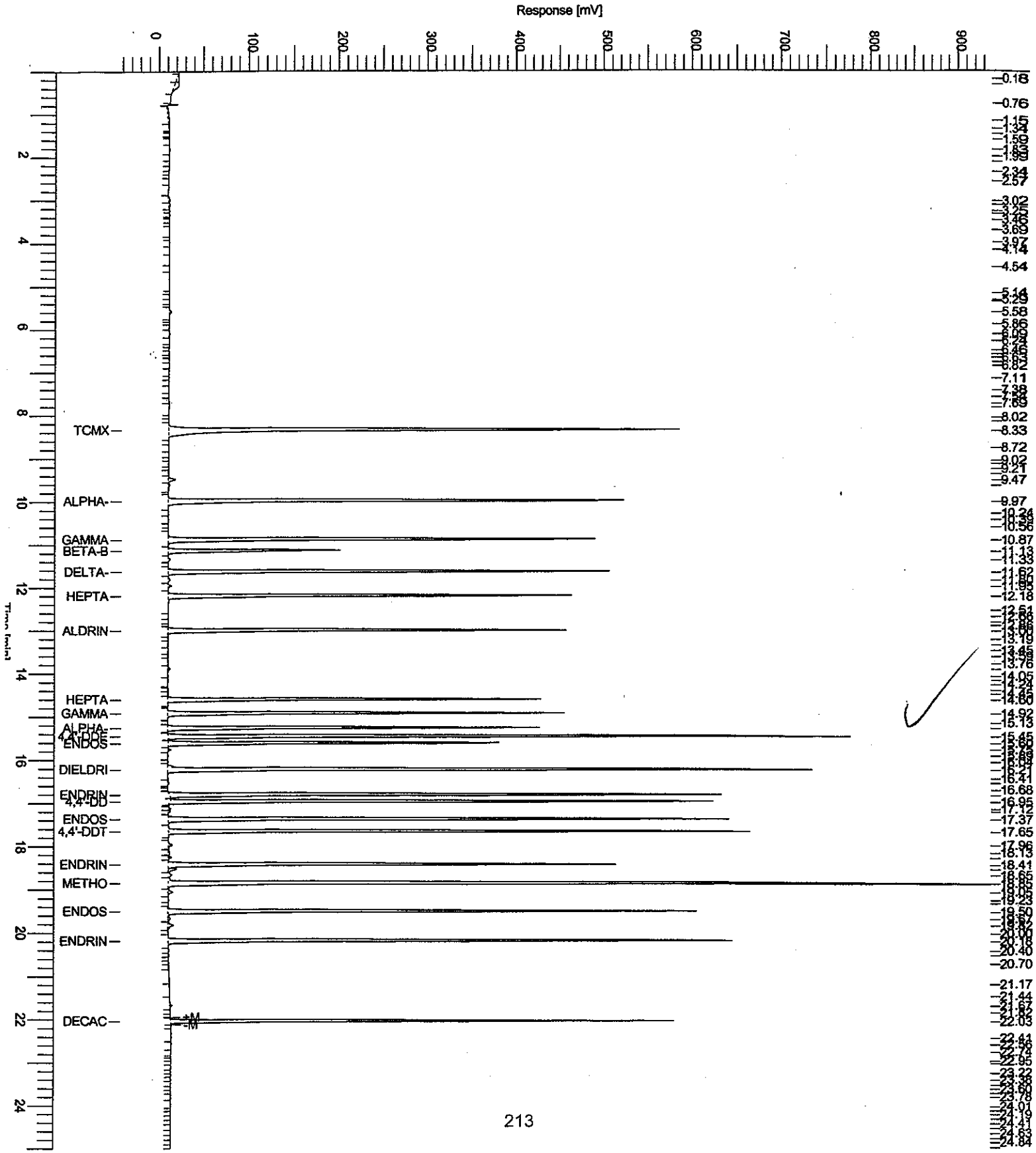
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\232a020P.TX0

8/20/04

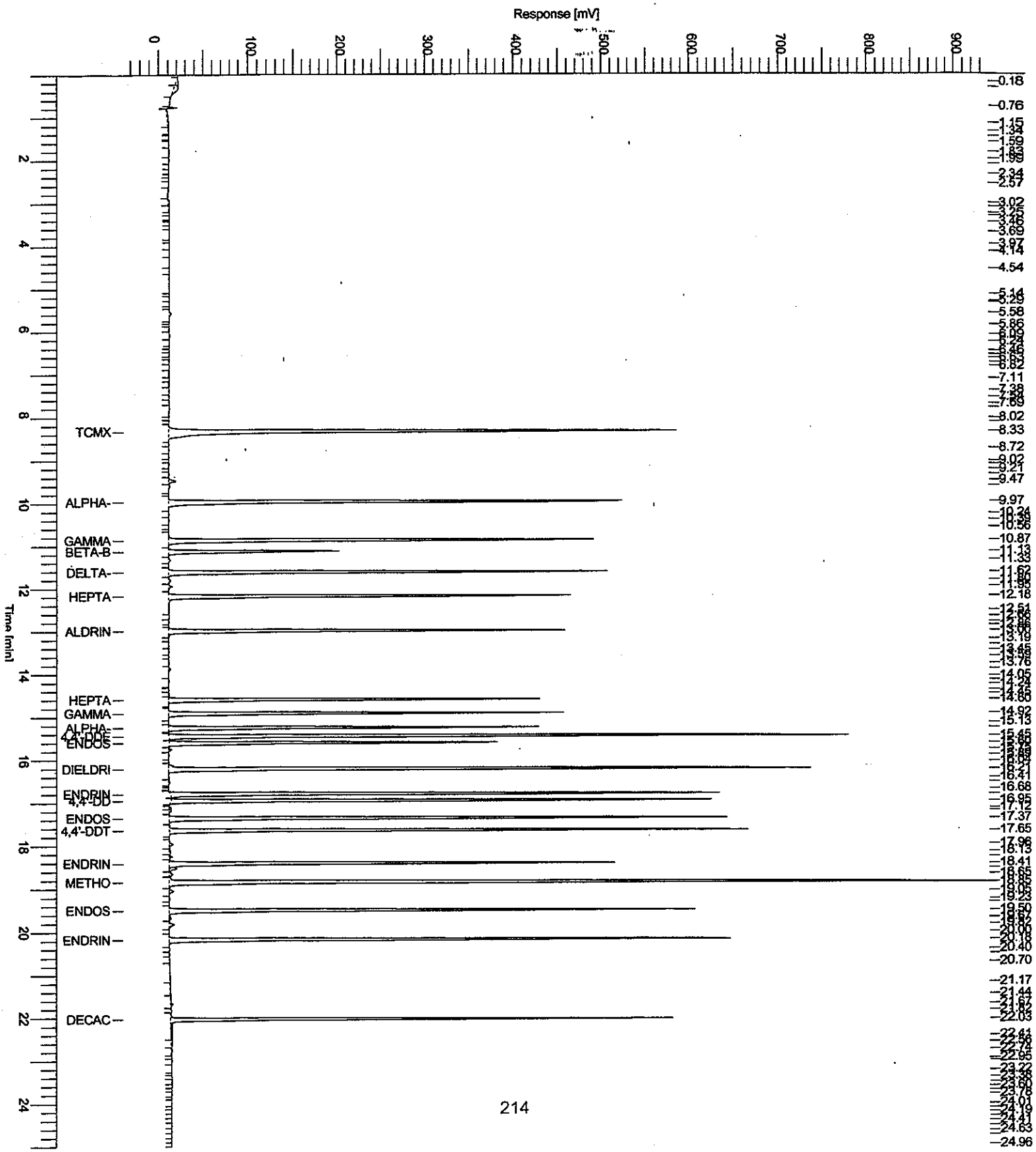
GC23 Rtx-CLPesticides

ample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
leName : G:\gc23\CHA\232a020.raw
ate : 8/20/04 3:06:44 PM
ethod :
Time of Injection: 8/20/04 1:37:31 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -41.04 mV High Point : 938.87 mV
lot Offset: -41.04 mV Plot Scale: 979.9 mV



GC23 Rtx-CLPesticides

'ample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
leName : G:\gc23\CHA\232a020.raw
ate : 8/20/04 1:58:36 PM
ethod : gc23ins Time of Injection: 8/20/04 1:37:31 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -38.59 mV High Point : 938.87 mV
cale Factor: 1.0 Plot Offset: -38.59 mV Plot Scale: 977.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1507,level_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 8/20/04 3:14:13 PM
Data Acquisition Time : 8/20/04 1:37:31 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b020P.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.262	2271123.58	161.1684	1.000	1	161.17
alpha-BHC	9.970	1877318.08	86.0780	1.000	1	86.08
gamma-BHC	10.946	1679809.00	85.3241	1.000	1	85.32
beta-BHC	11.155	704789.00	81.0475	1.000	1	81.05
delta-BHC	11.949	1670377.00	83.1200	1.000	1	83.12
Heptachlor	12.134	1315257.32	90.8346	1.000	1	90.83
Aldrin	12.981	1525513.00	82.4402	1.000	1	82.44
Heptachlor epoxide	14.455	1360539.00	80.1413	1.000	1	80.14
gamma-Chlordane	14.933	1413216.50	81.6112	1.000	1	81.61
alpha-Chlordane	15.306	1339819.00	80.8979	1.000	1	80.90
Endosulfan I	15.445	1254188.50	80.6182	1.000	1	80.62
4,4'-DDE	15.753	2374812.50	146.8414	1.000	1	146.84
Dieldrin	16.131	2397971.67	144.5264	1.000	1	144.53
Endrin	16.886	1888897.00	167.1487	1.000	1	167.15
4,4'-DDD	17.184	1908224.19	145.2379	1.000	1	145.24
Endosulfan II	17.403	2049376.90	145.3109	1.000	1	145.31
4,4'-DDT	17.963	1833970.64	170.8189	1.000	1	170.82
Endrin aldehyde	18.244	1635727.35	145.9901	1.000	1	145.99
Endosulfan sulfate	18.920	1934420.91	154.8703	1.000	1	154.87
Methoxychlor	19.669	2882927.81	596.5062	1.000	1	596.51
Endrin ketone	20.218	1887685.50	133.5479	1.000	1	133.55
Decachlorobiphenyl	22.564	1151283.00	137.0231	1.000	1	137.02
		38357247.45	3081.1031			3081.10

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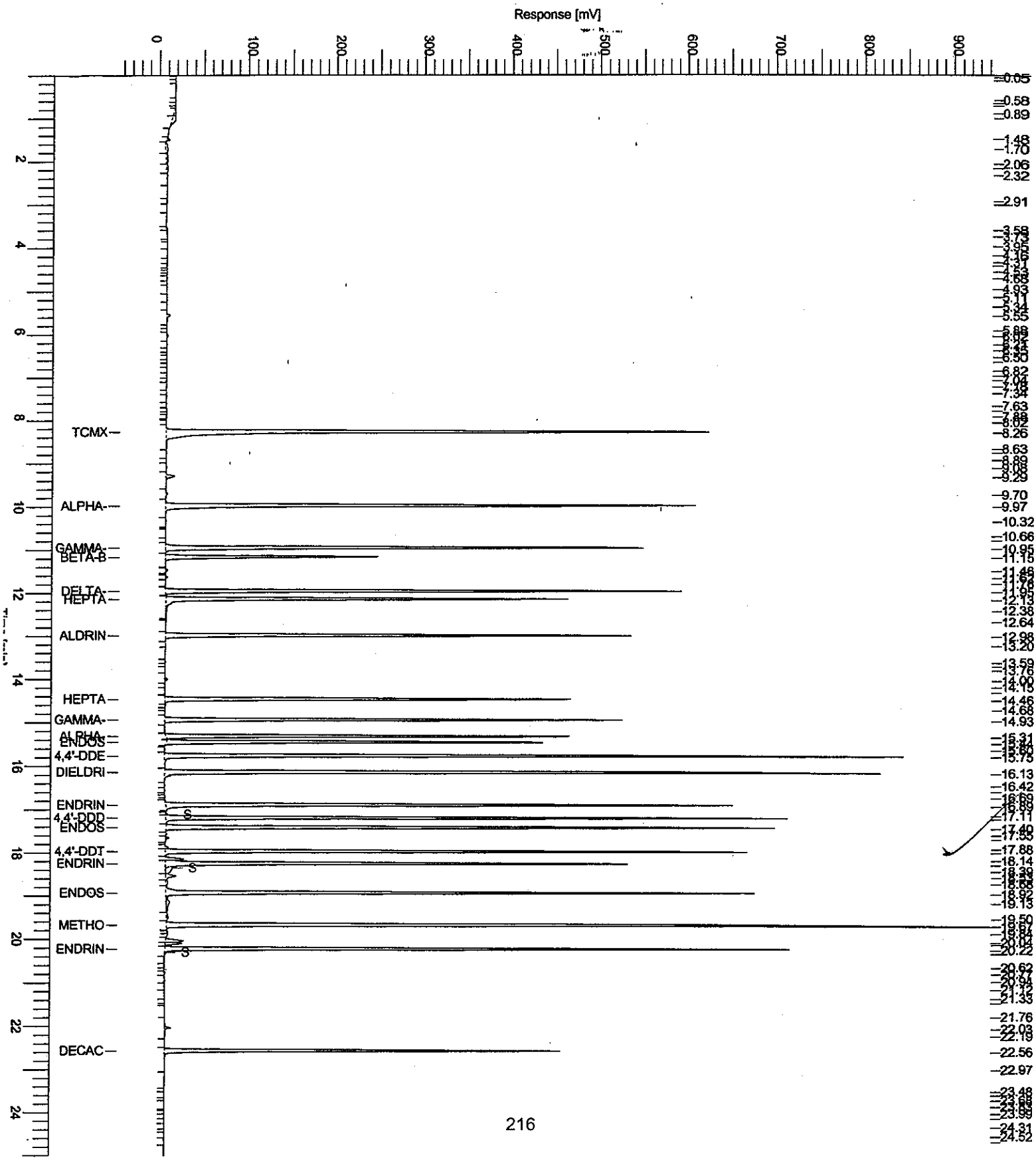
Report stored in ASCII file: G:\gc23\CHB\232b020P.TX0

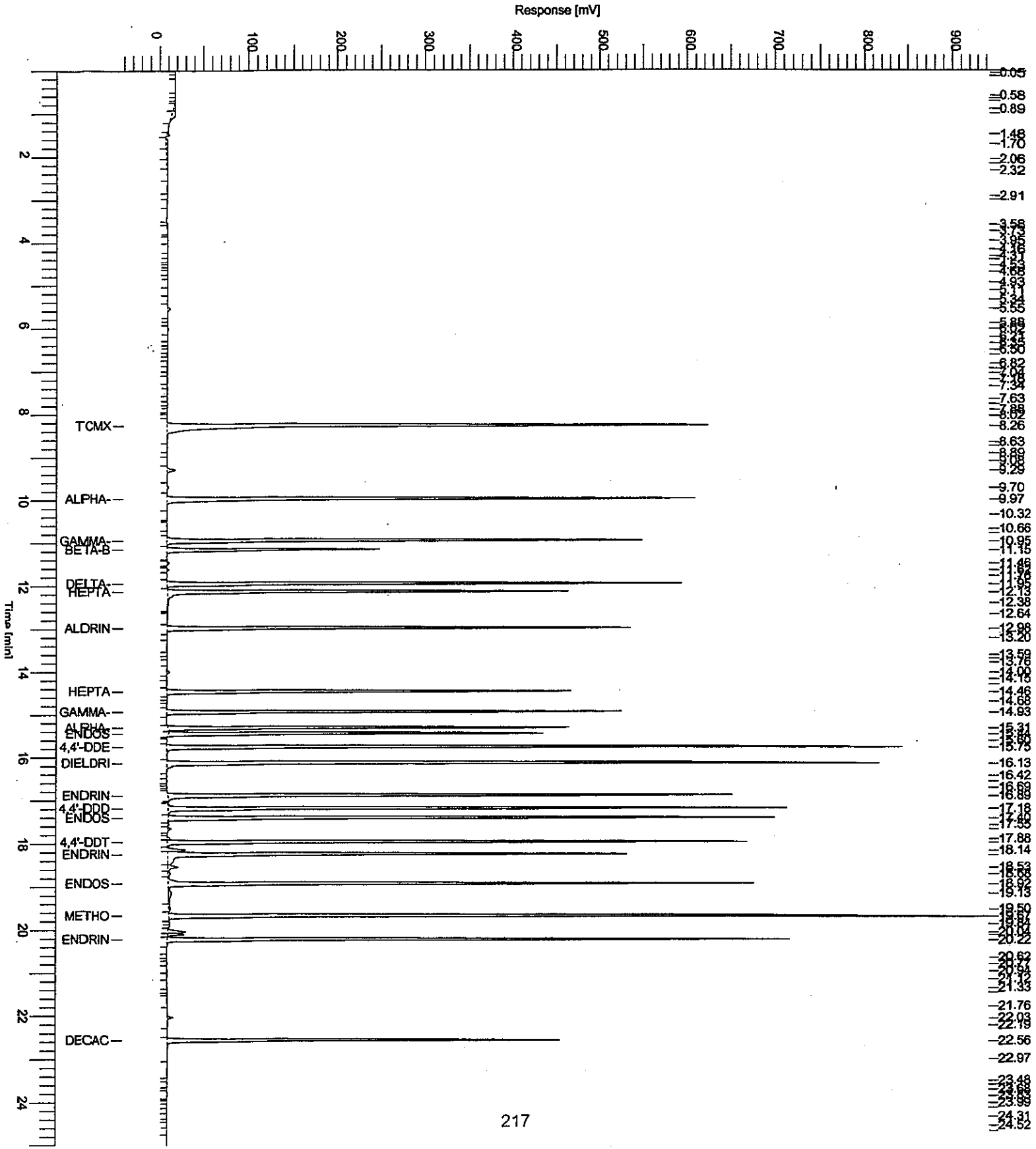
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
leName : G:\gc23\CHB\232b020.raw
ate : 8/20/04 3:14:18 PM
ethod :
Time of Injection: 8/20/04 1:37:31 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -43.46 mV High Point : 943.25 mV
lot Offset: -43.46 mV Plot Scale: 986.7 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
ileName : G:\gc23\CHB\232b020
ate : 8/20/04 1:57:58 PM
lethod : gc23ins Time of Injection: 8/20/04 1:37:31 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -40.99 mV High Point : 943.25 mV
cale Factor: 1.0 Plot Offset: -40.99 mV Plot Scale: 984.2 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : icv
Seqnum : 804335061023 Filename : 232_023 Injected : 20-AUG-2004 03:05
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1240

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	25.41403	pg	2	15	
gamma-BHC	A	25.00000	25.57481	pg	2	15	
beta-BHC	A	25.00000	24.94407	pg	0	15	
delta-BHC	A	25.00000	25.09650	pg	0	15	
Heptachlor	A	25.00000	26.14591	pg	5	15	
Aldrin	A	25.00000	25.87808	pg	4	15	
Heptachlor epoxide	A	25.00000	25.06501	pg	0	15	
gamma-Chlordane	A	25.00000	24.50592	pg	-2	15	
alpha-Chlordane	A	25.00000	25.35041	pg	1	15	
4,4'-DDE	A	25.00000	26.20180	pg	5	15	
Endosulfan I	A	25.00000	25.44399	pg	2	15	
Dieldrin	A	25.00000	26.14962	pg	5	15	
Endrin	A	25.00000	25.99776	pg	4	15	
4,4'-DDD	A	25.00000	25.95091	pg	4	15	
Endosulfan II	A	25.00000	25.95358	pg	4	15	
4,4'-DDT	A	25.00000	27.19847	pg	9	15	
Endrin aldehyde	A	25.00000	23.96465	pg	-4	15	
Methoxychlor	A	25.00000	32.23480	pg	**29**	15	v+ ***
Endosulfan sulfate	A	25.00000	25.12152	pg	0	15	
Endrin ketone	A	25.00000	25.91763	pg	4	15	
TCMX	A	26.00000	26.72327	pg	3	15	
Decachlorobiphenyl	A	26.00000	25.84430	pg	-1	15	
alpha-BHC	B	25.00000	25.04586	pg	0	15	
gamma-BHC	B	25.00000	24.92051	pg	0	15	
beta-BHC	B	25.00000	24.14289	pg	-3	15	
delta-BHC	B	25.00000	24.32690	pg	-3	15	
Heptachlor	B	25.00000	26.83894	pg	7	15	
Aldrin	B	25.00000	25.21885	pg	1	15	
Heptachlor epoxide	B	25.00000	24.19502	pg	-3	15	
gamma-Chlordane	B	25.00000	23.87894	pg	-4	15	
alpha-Chlordane	B	25.00000	24.35130	pg	-3	15	
4,4'-DDE	B	25.00000	25.22878	pg	1	15	
Endosulfan I	B	25.00000	24.64344	pg	-1	15	
Dieldrin	B	25.00000	25.15859	pg	1	15	
Endrin	B	25.00000	25.12954	pg	1	15	
4,4'-DDD	B	25.00000	24.47497	pg	-2	15	
Endosulfan II	B	25.00000	24.65114	pg	-1	15	
4,4'-DDT	B	25.00000	25.37088	pg	1	15	
Endrin aldehyde	B	25.00000	23.58776	pg	-6	15	
Methoxychlor	B	25.00000	28.86940	pg	15	15	
Endosulfan sulfate	B	25.00000	23.44076	pg	-6	15	
Endrin ketone	B	25.00000	24.03293	pg	-4	15	
TCMX	B	26.00000	26.46687	pg	2	15	
Decachlorobiphenyl	B	26.00000	24.73111	pg	-5	15	

+=high bias v=ICV
Page 1 of 1

Chm 8/20/04

Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws1240
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 8/20/04 3:41:07 PM
Data Acquisition Time : 8/20/04 3:05:23 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b023.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.267	320270.00	26.4669	1.000	1	26.47
alpha-BHC	9.979	466301.89	25.0459	1.000	1	25.05 ~ 466301.89/18618 = 25.05
gamma-BHC	10.951	419994.50	24.9205	1.000	1	24.92
beta-BHC	11.165	182014.00	24.1429	1.000	1	24.14
delta-BHC	11.954	430115.50	24.3269	1.000	1	24.33
Heptachlor	12.138	310604.00	26.8389	1.000	1	26.84
Aldrin	12.985	392809.07	25.2189	1.000	1	25.22
Heptachlor epoxide	14.465	346075.00	24.1950	1.000	1	24.20
gamma-Chlordane	14.938	347480.13	23.8789	1.000	1	23.88
alpha-Chlordane	15.315	340078.50	24.3513	1.000	1	24.35
Endosulfan I	15.449	324104.00	24.6434	1.000	1	24.64
4,4'-DDE	15.762	336714.50	25.2288	1.000	1	25.23
Dieldrin	16.135	348012.71	25.1586	1.000	1	25.16
Endrin	16.895	261310.50	25.1295	1.000	1	25.13
4,4'-DDD	17.188	258859.64	24.4750	1.000	1	24.47
Endosulfan II	17.413	293132.11	24.6511	1.000	1	24.65
4,4'-DDT	17.967	243837.61	25.3709	1.000	1	25.37
Endrin aldehyde	18.249	232773.17	23.5878	1.000	1	23.59
Endosulfan sulfate	18.929	258534.00	23.4408	1.000	1	23.44
Methoxychlor	19.678	113356.45	28.8694	1.000	1	28.87
Endrin ketone	20.221	278345.00	24.0329	1.000	1	24.03
Decachlorobiphenyl	22.566	159003.58	24.7311	1.000	1	24.73
		6663725.86	548.7054			548.71

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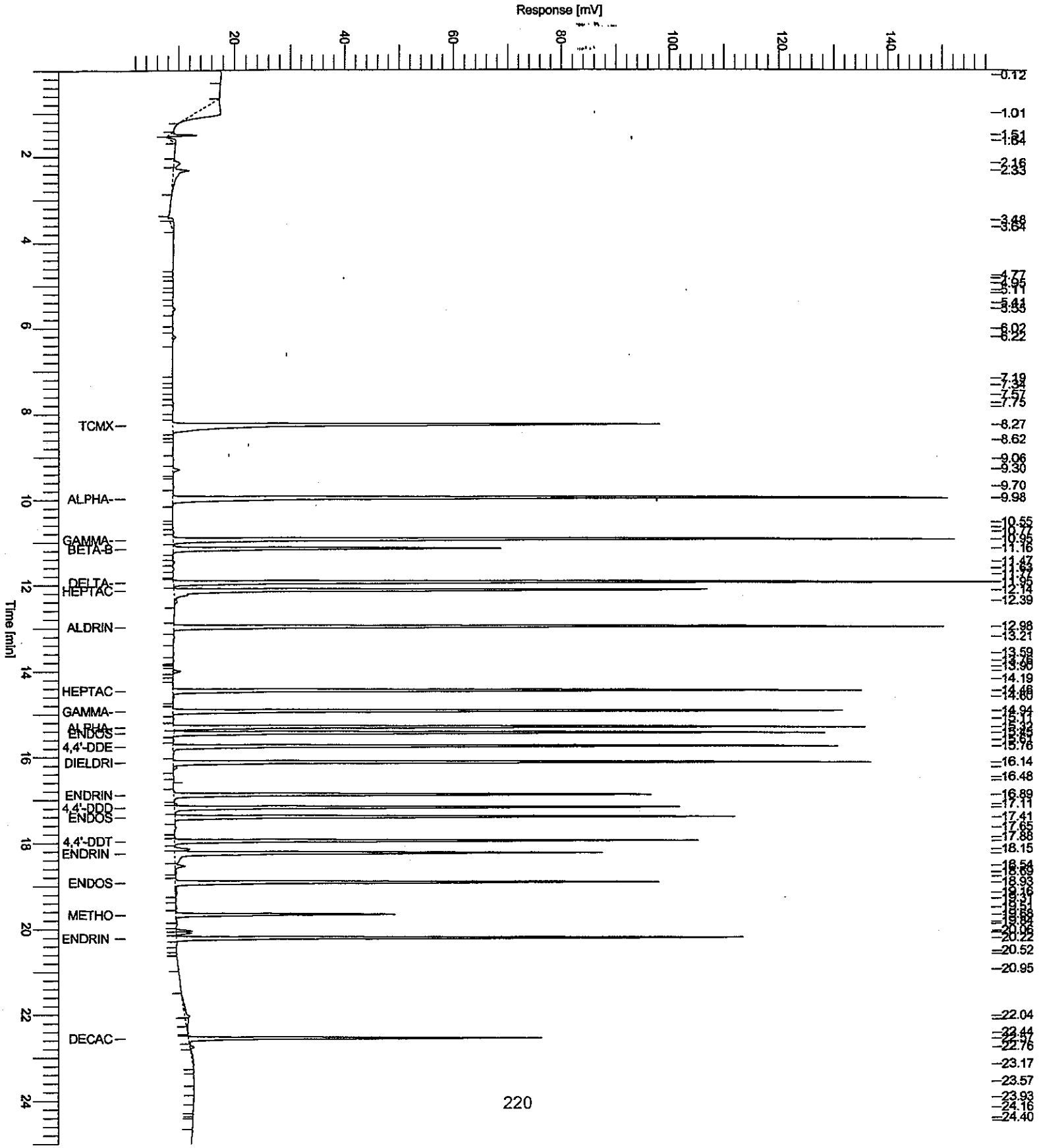
Report stored in ASCII file: G:\gc23\CHB\232b023.TX0

8/20/04

GC23 Rtx-CLPesticides2

Sample Name : x,icv,04ws1240 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc23\CHB\232b023
Date : 8/20/04 3:41:09 PM
Method : gc23ins Time of Injection: 8/20/04 3:05:23 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.19 mV High Point : 158.98 mV
Scale Factor: 1.0 Plot Offset: 0.19 mV Plot Scale: 158.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws1240
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 8/20/04 3:41:22 PM
Data Acquisition Time : 8/20/04 3:05:23 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a023.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.336	299448.63	26.7233	1.000	1	26.72
alpha-BHC	9.980	443334.95	25.4140	1.000	1	25.41
gamma-BHC	10.879	402159.40	25.5748	1.000	1	25.57
beta-BHC	11.136	168746.85	24.9441	1.000	1	24.94
delta-BHC	11.629	412982.79	25.0965	1.000	1	25.10
Heptachlor	12.189	366304.05	26.1459	1.000	1	26.15
Aldrin	13.000	369927.43	25.8781	1.000	1	25.88
Heptachlor epoxide	14.602	329115.49	25.0650	1.000	1	25.07
gamma-Chlordane	14.920	328251.00	24.5059	1.000	1	24.51
alpha-Chlordane	15.262	322339.00	25.3504	1.000	1	25.35
4,4'-DDE	15.453	319631.00	26.2018	1.000	1	26.20
Endosulfan I	15.614	307448.00	25.4440	1.000	1	25.44
Dieldrin	16.219	334087.00	26.1496	1.000	1	26.15
Endrin	16.803	274411.00	25.9978	1.000	1	26.00
4,4'-DDD	16.964	252966.00	25.9509	1.000	1	25.95
Endosulfan II	17.370	286437.00	25.9536	1.000	1	25.95
4,4'-DDT	17.653	270519.50	27.1985	1.000	1	27.20
Endrin aldehyde	18.419	223677.60	23.9646	1.000	1	23.96
Methoxychlor	18.850	132786.51	32.2348	1.000	1	32.23
Endosulfan sulfate	19.503	250480.38	25.1215	1.000	1	25.12
Endrin ketone	20.182	294898.00	25.9176	1.000	1	25.92
Decachlorobiphenyl	22.035	177310.71	25.8443	1.000	1	25.84
		6567262.29	570.6771			570.68

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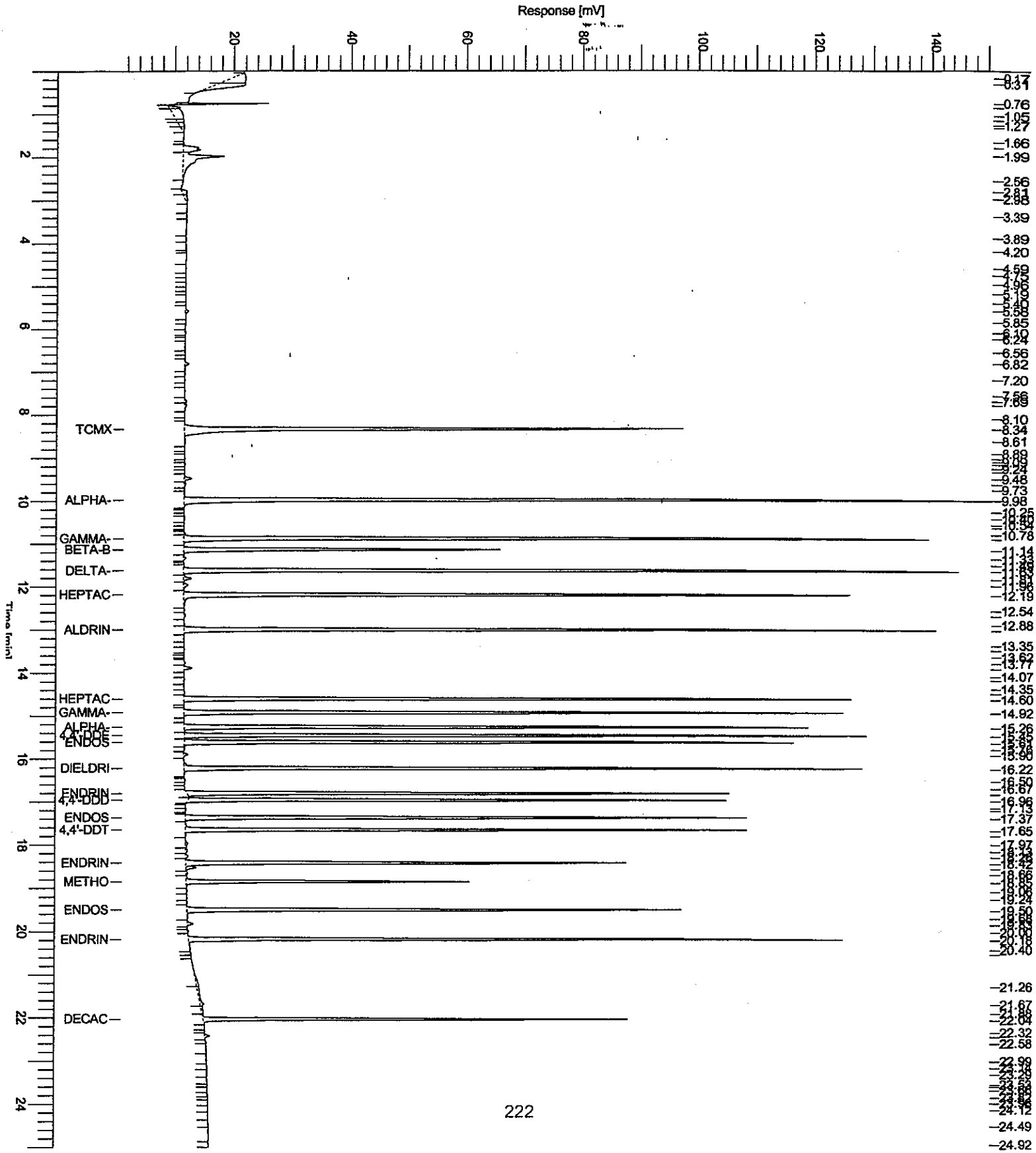
Report stored in ASCII file: G:\gc23\CHA\232a023.TX0

GC23 Rtx-CLPesticides

ample Name : x,icv,04ws1240 Sample #: 25ug/L Page 1 of 1
ileName : G:\gc23\CHA\232a023.raw
ate : 8/20/04 3:41:25 PM
lethod : gc23ins Time of Injection: 8/20/04 3:05:23 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.52 mV High Point : 150.72 mV
cale Factor: 1.0 Plot Offset: 1.52 mV Plot Scale: 149.2 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804335061022 Run Name: Injected: 20-AUG-2004 02:36
Filename: 232_022 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	996214.26
4,4'-DDE	A	4177.07
4,4'-DDD	A	7246.14

4,4'-DDT Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	498310.08
Endrin aldehyde	A	23433.64
Endrin ketone	A	18865.57

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1139847.41
4,4'-DDE	B	5392.08
4,4'-DDD	B	3370

4,4'-DDT Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	585318.5
Endrin aldehyde	B	17978.4
Endrin ketone	B	10647.74

Endrin Breakdown %: 5
Breakdown Limit %: 15

mcs 8/20/04

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 8/20/04 3:41:17 PM
Data Acquisition Time : 8/20/04 2:36:11 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\232a022.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.333	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.972	162131.23	9.2941	1.000	1	9.29
gamma-BHC	10.871	150267.00	9.5560	1.000	1	9.56
beta-BHC	11.132	65401.50	9.6676	1.000	1	9.67
delta-BHC	11.621	3216.69	0.1955	1.000	1	0.20
Heptachlor	12.176	506.00	0.0361	1.000	1	0.04
Aldrin	12.995	1046.04	0.0732	1.000	1	0.07
Heptachlor epoxide	14.601	761.75	0.0580	1.000	1	0.06
gamma-Chlordane	14.885	1947.58	0.1454	1.000	1	0.15
alpha-Chlordane	15.257	822.81	0.0647	1.000	1	0.06
4,4'-DDE	15.449	4177.07	0.3424	1.000	1	0.34
Endosulfan I	15.608	933.93	0.0773	1.000	1	0.08
Dieldrin	16.212	1831.72	0.1434	1.000	1	0.14
Endrin	16.798	498310.08	47.2100	1.000	1	47.21
4,4'-DDD	16.961	7246.14	0.7434	1.000	1	0.74
Endosulfan II	17.409	8192.26	0.7423	1.000	1	0.74
4,4'-DDT	17.649	996214.26	100.1610	1.000	1	100.16
Endrin aldehyde	18.416	23433.64	2.5107	1.000	1	2.51
Methoxychlor	18.846	1041258.61	252.7724	1.000	1	252.77
Endosulfan sulfate	19.498	5247.44	0.5263	1.000	1	0.53
Endrin ketone	20.179	18865.57	1.6580	1.000	1	1.66
Decachlorobiphenyl	22.025	6973.11	1.0164	1.000	1	1.02
		2998784.44	436.9941			436.99

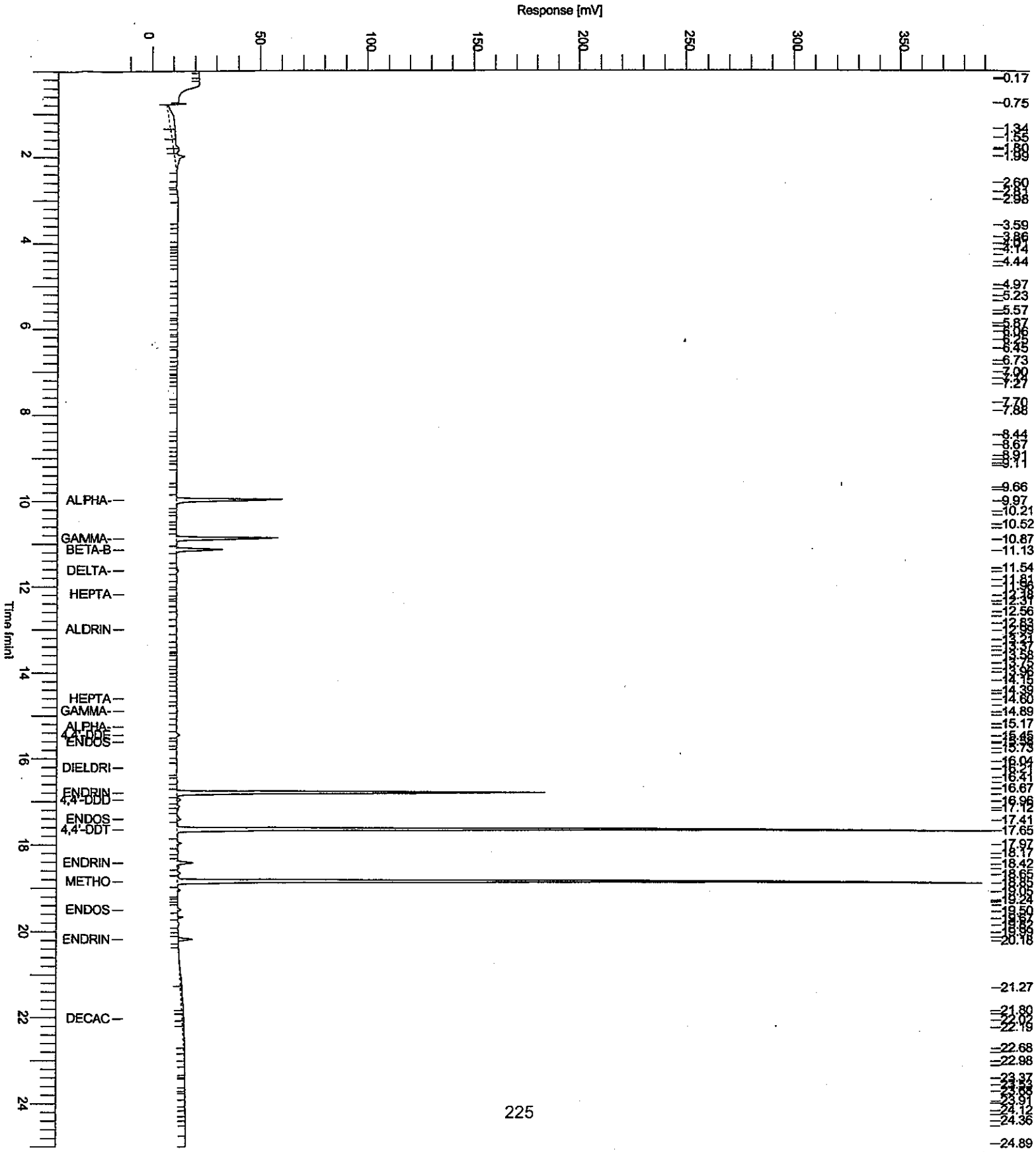
CURTIS & TOMPKINS LTD

Report stored in ASCII file: G:\gc23\CHA\232a022.TX0

8/20/04

GC23 Rtx-CLPesticides

Sample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHA\232a022.raw
Date : 8/20/04 3:41:20 PM
Method : gc23ins Time of Injection: 8/20/04 2:36:11 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -12.77 mV High Point : 393.73 mV
Scale Factor: 1.0 Plot Offset: -12.77 mV Plot Scale: 406.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 8/20/04 3:41:01 PM
Data Acquisition Time : 8/20/04 2:36:11 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\232b022.rst
Sequence File : G:\gc23\Files\232.seq

PEST GC23 CHANNEL B METH. 8081

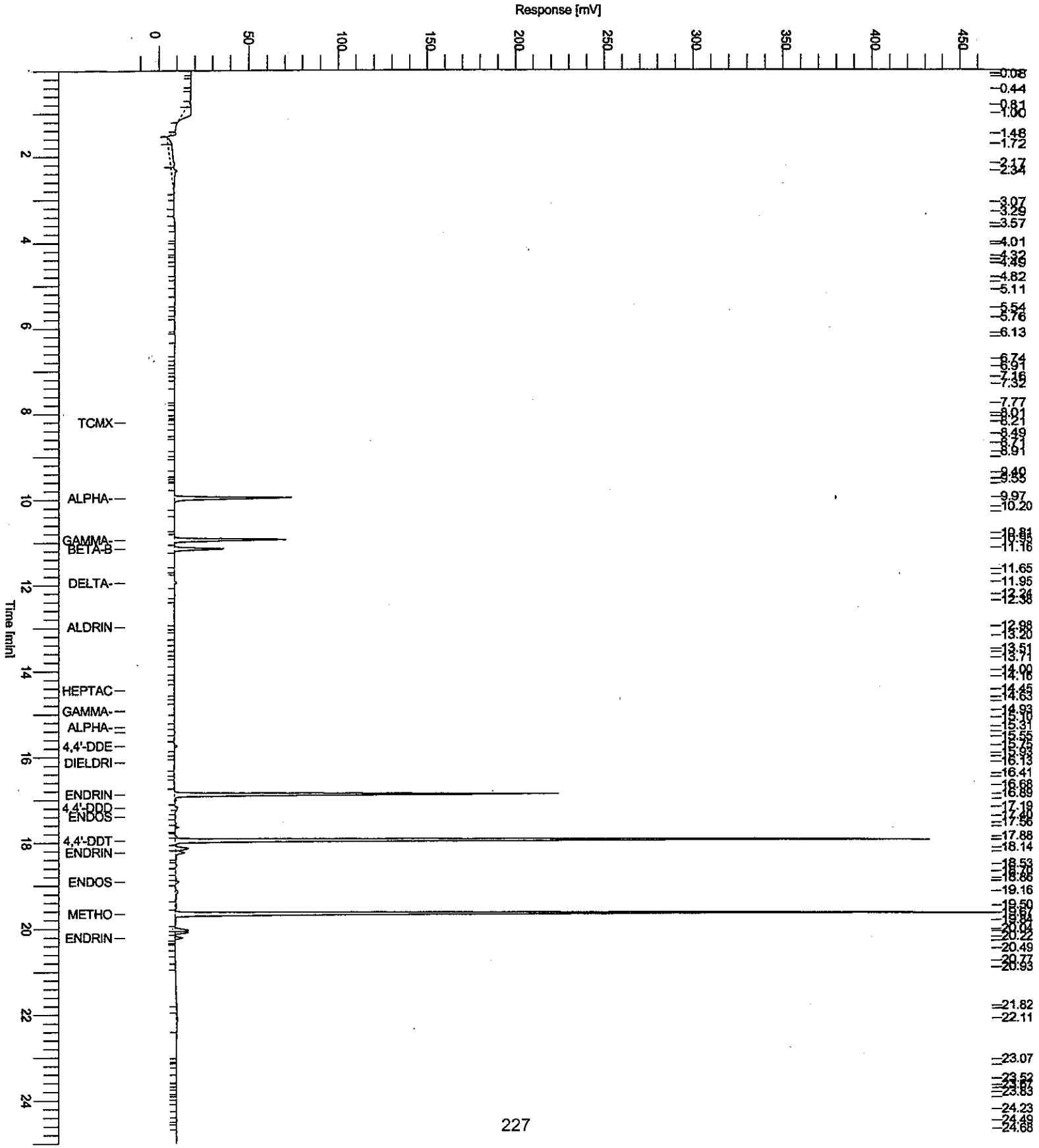
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.214	91.00	0.0075	1.000	1	0.01
alpha-BHC	9.971	201979.76	10.8487	1.000	1	10.85
gamma-BHC	10.947	188696.61	11.1964	1.000	1	11.20
beta-BHC	11.156	85223.00	11.3042	1.000	1	11.30
delta-BHC	11.953	4863.45	0.2751	1.000	1	0.28
Heptachlor	12.135	0.00	0.0000	1.000	1	0.00
Aldrin	12.985	182.00	0.0117	1.000	1	0.01
Heptachlor epoxide	14.453	826.00	0.0577	1.000	1	0.06
gamma-Chlordane	14.933	820.14	0.0564	1.000	1	0.06
alpha-Chlordane	15.307	524.86	0.0376	1.000	1	0.04
Endosulfan I	15.429	1592.33	0.1211	1.000	1	0.12
4,4'-DDE	15.753	5392.08	0.4040	1.000	1	0.40
Dieldrin	16.134	1488.35	0.1076	1.000	1	0.11
Endrin	16.885	585318.50	56.2885	1.000	1	56.29
4,4'-DDD	17.191	3370.00	0.3186	1.000	1	0.32
Endosulfan II	17.402	1753.00	0.1474	1.000	1	0.15
4,4'-DDT	17.963	1139847.41	118.5992	1.000	1	118.60
Endrin aldehyde	18.237	17978.40	1.8218	1.000	1	1.82
Endosulfan sulfate	18.919	6789.06	0.6156	1.000	1	0.62
Methoxychlor	19.669	1221996.33	311.2156	1.000	1	311.22
Endrin ketone	20.218	10647.74	0.9193	1.000	1	0.92
Decachlorobiphenyl	22.564	0.00	0.0000	1.000	1	0.00
		3479380.00	524.3540			524.35

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\232b022.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHB\232b022
ate : 8/20/04 3:41:04 PM
lethod : gc23ins Time of Injection: 8/20/04 2:36:11 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -18.74 mV High Point : 466.85 mV
cale Factor: 1.0 Plot Offset: -18.74 mV Plot Scale: 485.6 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804352004001 Run Name: Injected: 31-AUG-2004 10:44
Filename: 244_001 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	1177173.31
4,4'-DDE	A	4315.8
4,4'-DDD	A	38174.07

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	557476.93
Endrin aldehyde	A	28867.64
Endrin ketone	A	37825.1

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	697540.32
4,4'-DDE	B	3569.53
4,4'-DDD	B	25759.69

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	395066.35
Endrin aldehyde	B	20464.37
Endrin ketone	B	24977

Endrin Breakdown %: 10
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 1

Date : 8/31/04 12:09:01 PM
Data Acquisition Time : 8/31/04 10:44:09 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a001.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.324	589.28	0.0526	1.000	1	0.05
alpha-BHC	9.966	194333.39	11.1401	1.000	1	11.14
gamma-BHC	10.865	180437.00	11.4747	1.000	1	11.47
beta-BHC	11.122	79870.66	11.8064	1.000	1	11.81
delta-BHC	11.617	1313.65	0.0798	1.000	1	0.08
Heptachlor	12.154	244.50	0.0175	1.000	1	0.02
Aldrin	12.976	76.63	0.0054	1.000	1	0.01
Heptachlor epoxide	14.587	410.15	0.0312	1.000	1	0.03
gamma-Chlordane	14.959	1153.34	0.0861	1.000	1	0.09
alpha-Chlordane	15.258	237.00	0.0186	1.000	1	0.02
4,4'-DDE	15.438	4315.80	0.3538	1.000	1	0.35
Endosulfan I	15.607	0.00	0.0000	1.000	1	0.00
Dieldrin	16.205	345.68	0.0271	1.000	1	0.03
Endrin	16.785	557476.93	52.8155	1.000	1	52.82
4,4'-DDD	16.948	38174.07	3.9161	1.000	1	3.92
Endosulfan II	17.400	6382.43	0.5783	1.000	1	0.58
4,4'-DDT	17.636	1177173.31	118.3549	1.000	1	118.35
Endrin aldehyde	18.402	28867.64	3.0929	1.000	1	3.09
Methoxychlor	18.833	1154524.33	280.2684	1.000	1	280.27
Endosulfan sulfate	19.484	1056.35	0.1059	1.000	1	0.11
Endrin ketone	20.166	37825.10	3.3243	1.000	1	3.32
Decachlorobiphenyl	22.022	3094.42	0.4510	1.000	1	0.45
		3467901.67	498.0006			498.00

GL
8/31/04

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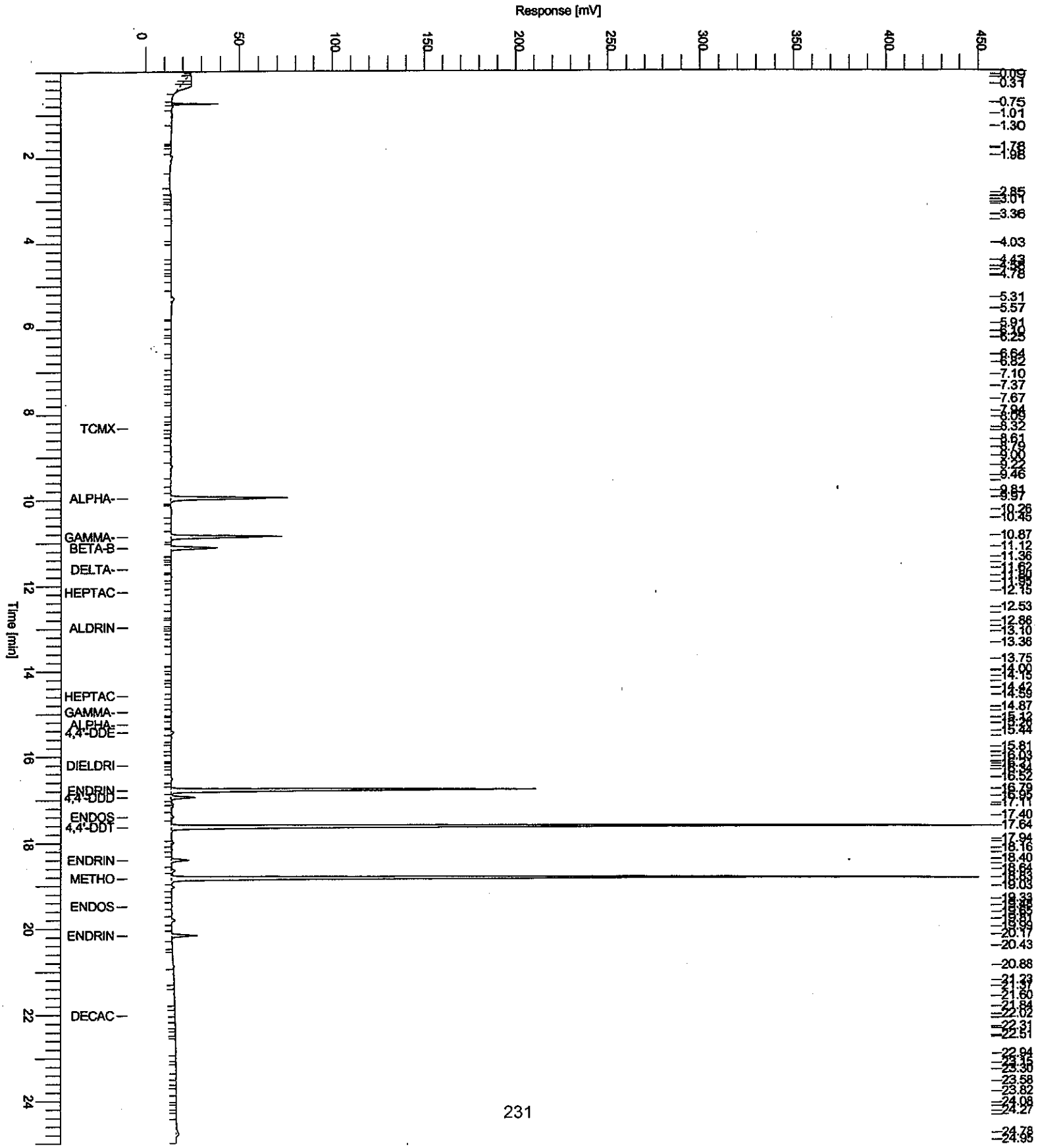
Report stored in ASCII file: G:\gc23\CHA\244a001.TX0

GC23 Rtx-CLPesticides

Sample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHa\244a001.raw
Date : 8/31/04 12:09:04 PM
Method : gc23ins Time of Injection: 8/31/04 10:44:09 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -9.65 mV High Point : 456.24 mV
Scale Factor: 1.0 Plot Offset: -9.65 mV Plot Scale: 465.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 1

Date : 8/31/04 12:09:18 PM
Data Acquisition Time : 8/31/04 10:44:09 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b001.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.264	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.951	165818.50	8.9064	1.000	1	8.91
gamma-BHC	10.923	151682.50	9.0001	1.000	1	9.00
beta-BHC	11.137	69544.00	9.2245	1.000	1	9.22
delta-BHC	11.933	916.25	0.0518	1.000	1	0.05
Heptachlor	12.105	69.62	0.0060	1.000	1	0.01
Aldrin	12.982	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.471	157.17	0.0110	1.000	1	0.01
gamma-Chlordane	14.934	0.00	0.0000	1.000	1	0.00
alpha-Chlordane	15.309	0.00	0.0000	1.000	1	0.00
Endosulfan I	15.401	752.47	0.0572	1.000	1	0.06
4,4'-DDE	15.732	3569.53	0.2675	1.000	1	0.27
Dieldrin	16.132	0.00	0.0000	1.000	1	0.00
Endrin	16.864	395066.35	37.9925	1.000	1	37.99
4,4'-DDD	17.163	25759.69	2.4356	1.000	1	2.44
Endosulfan II	17.379	2471.00	0.2078	1.000	1	0.21
4,4'-DDT	17.935	697540.32	72.5779	1.000	1	72.58
Endrin aldehyde	18.218	20464.37	2.0737	1.000	1	2.07
Endosulfan sulfate	18.893	2955.22	0.2679	1.000	1	0.27
Methoxychlor	19.646	676184.00	172.2092	1.000	1	172.21
Endrin ketone	20.199	24977.00	2.1566	1.000	1	2.16
Decachlorobiphenyl	22.564	0.00	0.0000	1.000	1	0.00
		2237927.98	317.4457			317.45

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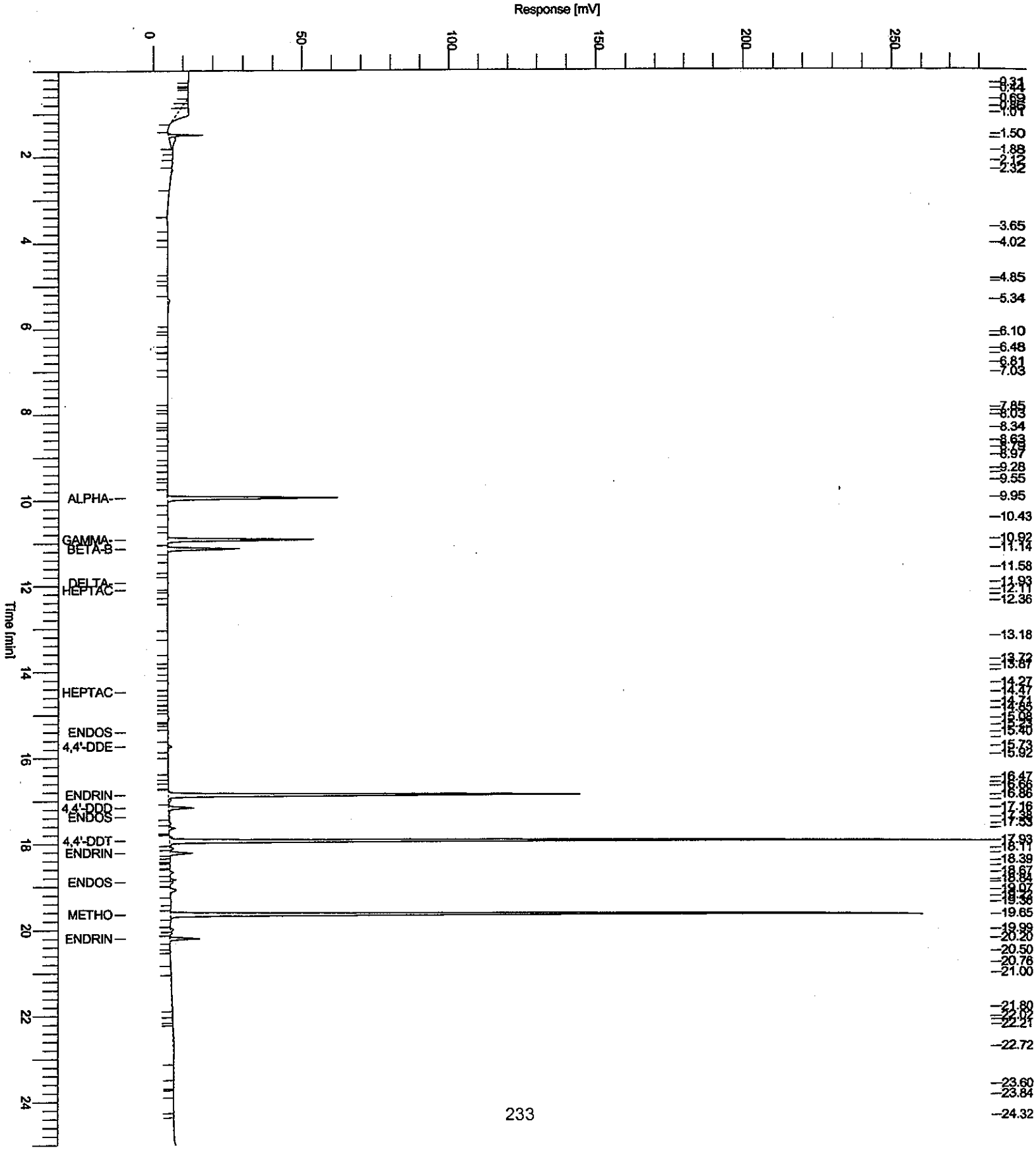
Report stored in ASCII file: G:\gc23\CHB\244b001.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHb\244b001
ate : 8/31/04 12:09:21 PM
lethod : gc23ins Time of Injection: 8/31/04 10:44:09 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -9.61 mV High Point : 283.66 mV
cale Factor: 1.0 Plot Offset: -9.61 mV, Plot Scale: 293.3 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804352004017 Run Name: Injected: 31-AUG-2004 20:47
Filename: 244_017 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	1118237.4
4,4'-DDE	A	3789.23
4,4'-DDD	A	46676.68

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	570555.14
Endrin aldehyde	A	19355.51
Endrin ketone	A	37540

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	844150.62
4,4'-DDE	B	4459
4,4'-DDD	B	41362.36

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	466515.99
Endrin aldehyde	B	26133.74
Endrin ketone	B	35921

Endrin Breakdown %: 12
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 9/1/04 10:23:21 AM
Data Acquisition Time : 8/31/04 8:47:28 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a017.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.356	65.00	0.0058	1.000	1	0.01
alpha-BHC	9.963	191322.72	10.9675	1.000	1	10.97
gamma-BHC	10.863	177818.50	11.3081	1.000	1	11.31
beta-BHC	11.119	78493.57	11.6029	1.000	1	11.60
delta-BHC	11.616	507.00	0.0308	1.000	1	0.03
Heptachlor	12.149	393.45	0.0281	1.000	1	0.03
Aldrin	13.014	134.00	0.0094	1.000	1	0.01
Heptachlor epoxide	14.584	465.02	0.0354	1.000	1	0.04
gamma-Chlordane	14.960	1240.88	0.0926	1.000	1	0.09
alpha-Chlordane	15.292	249.35	0.0196	1.000	1	0.02
4,4'-DDE	15.436	3789.23	0.3106	1.000	1	0.31
Endosulfan I	15.607	0.00	0.0000	1.000	1	0.00
Dieldrin	16.215	0.00	0.0000	1.000	1	0.00
Endrin	16.785	570555.14	54.0545	1.000	1	54.05
4,4'-DDD	16.948	46676.68	4.7884	1.000	1	4.79
Endosulfan II	17.399	2280.50	0.2066	1.000	1	0.21
4,4'-DDT	17.636	1118237.40	112.4294	1.000	1	112.43
Endrin aldehyde	18.403	19355.51	2.0737	1.000	1	2.07
Methoxychlor	18.833	1164373.19	282.6592	1.000	1	282.66
Endosulfan sulfate	19.489	484.93	0.0486	1.000	1	0.05
Endrin ketone	20.166	37540.00	3.2993	1.000	1	3.30
Decachlorobiphenyl	22.046	1316.11	0.1918	1.000	1	0.19
		3415298.17	494.1625			494.16

CJ 9/1/04

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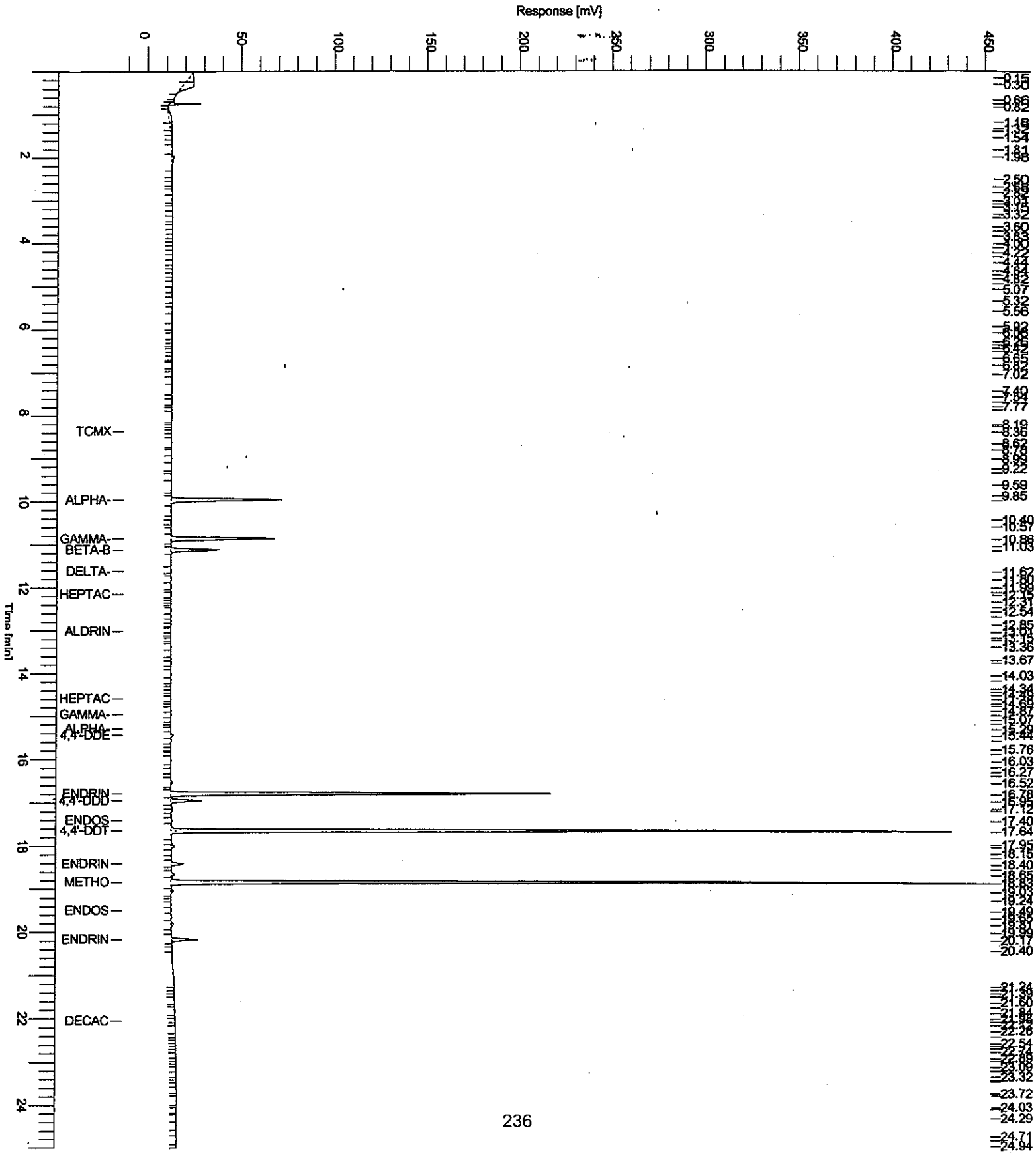
Report stored in ASCII file: G:\gc23\CHA\244a017.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHA\244a017.raw
ate : 9/1/04 10:23:23 AM
lethod : gc23ins Time of Injection: 8/31/04 8:47:28 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -12.20 mV High Point : 454.16 mV
cale Factor: 1.0 Plot Offset: -12.20 mV Plot Scale: 466.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 9/1/04 10:23:42 AM
Data Acquisition Time : 8/31/04 8:47:28 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b017.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.239	98.00	0.0081	1.000	1	0.01
alpha-BHC	9.951	195183.05	10.4836	1.000	1	10.48
gamma-BHC	10.922	180210.00	10.6928	1.000	1	10.69
beta-BHC	11.137	81467.00	10.8060	1.000	1	10.81
delta-BHC	11.935	313.73	0.0177	1.000	1	0.02
Heptachlor	12.124	181.98	0.0157	1.000	1	0.02
Aldrin	12.982	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.483	179.50	0.0125	1.000	1	0.01
gamma-Chlordane	14.934	0.00	0.0000	1.000	1	0.00
alpha-Chlordane	15.309	0.00	0.0000	1.000	1	0.00
Endosulfan I	15.402	958.50	0.0729	1.000	1	0.07
4,4'-DDE	15.733	4459.00	0.3341	1.000	1	0.33
Dieldrin	16.132	0.00	0.0000	1.000	1	0.00
Endrin	16.865	466515.99	44.8636	1.000	1	44.86
4,4'-DDD	17.165	41362.36	3.9108	1.000	1	3.91
Endosulfan II	17.384	1471.55	0.1238	1.000	1	0.12
4,4'-DDT	17.936	844150.62	87.8324	1.000	1	87.83
Endrin aldehyde	18.220	26133.74	2.6482	1.000	1	2.65
Endosulfan sulfate	18.891	4816.83	0.4367	1.000	1	0.44
Methoxychlor	19.647	845699.00	215.3810	1.000	1	215.38
Endrin ketone	20.199	35921.00	3.1015	1.000	1	3.10
Decachlorobiphenyl	22.520	356.05	0.0554	1.000	1	0.06
		2729477.89	390.7969			390.80

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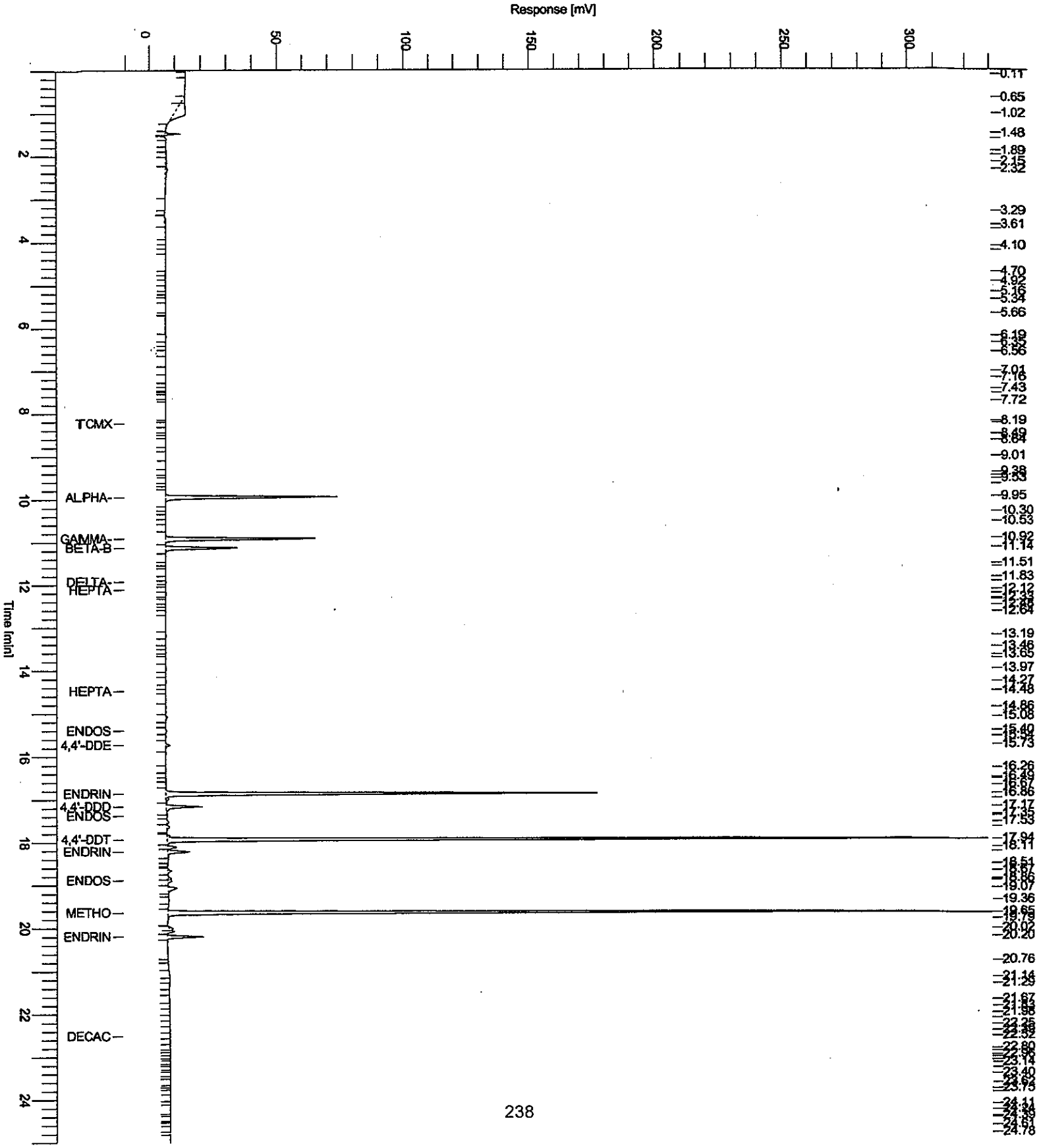
Report stored in ASCII file: G:\gc23\CHB\244b017.TX0

GC23 Rbx-CLPesticides2

ample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHb\244b017
ate : 9/1/04 1 0:23:44 AM
lethod : gc23ins Time of Injection: 8/31/04 8:47:28 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -10.28 mV High Point : 330.89 mV
cale Factor: 1.0 Plot Offset: -10.28 mV Plot Scale: 341.2 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804352004034 Run Name: Injected: 01-SEP-2004 05:08
Filename: 244_034 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	1159076.93
4,4'-DDE	A	4253.68
4,4'-DDD	A	48184.34

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	588346.94
Endrin aldehyde	A	21094.33
Endrin ketone	A	42301.61

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	922568.64
4,4'-DDE	B	3872.5
4,4'-DDD	B	40997.67

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	511401.64
Endrin aldehyde	B	21759.2
Endrin ketone	B	30886.5

Endrin Breakdown %: 9
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 34

Date : 9/1/04 10:24:05 AM
Data Acquisition Time : 9/1/04 5:08:19 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a034.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.333	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.956	195291.00	11.1950	1.000	1	11.19
gamma-BHC	10.856	182310.84	11.5938	1.000	1	11.59
beta-BHC	11.117	80789.50	11.9423	1.000	1	11.94
delta-BHC	11.608	629.65	0.0383	1.000	1	0.04
Heptachlor	12.149	784.41	0.0560	1.000	1	0.06
Aldrin	12.996	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.576	545.88	0.0416	1.000	1	0.04
gamma-Chlordane	14.951	1640.75	0.1225	1.000	1	0.12
alpha-Chlordane	15.252	184.32	0.0145	1.000	1	0.01
4,4'-DDE	15.434	4253.68	0.3487	1.000	1	0.35
Endosulfan I	15.607	0.00	0.0000	1.000	1	0.00
Dieldrin	16.265	502.00	0.0393	1.000	1	0.04
Endrin	16.782	588346.94	55.7401	1.000	1	55.74
4,4'-DDD	16.944	48184.34	4.9431	1.000	1	4.94
Endosulfan II	17.398	2924.42	0.2650	1.000	1	0.26
4,4'-DDT	17.633	1159076.93	116.5355	1.000	1	116.54
Endrin aldehyde	18.400	21094.33	2.2600	1.000	1	2.26
Methoxychlor	18.830	1213988.94	294.7038	1.000	1	294.70
Endosulfan sulfate	19.482	403.00	0.0404	1.000	1	0.04
Endrin ketone	20.163	42301.61	3.7178	1.000	1	3.72
Decachlorobiphenyl	22.076	3081.37	0.4491	1.000	1	0.45
		3546333.91	514.0466			514.05

9/1/04

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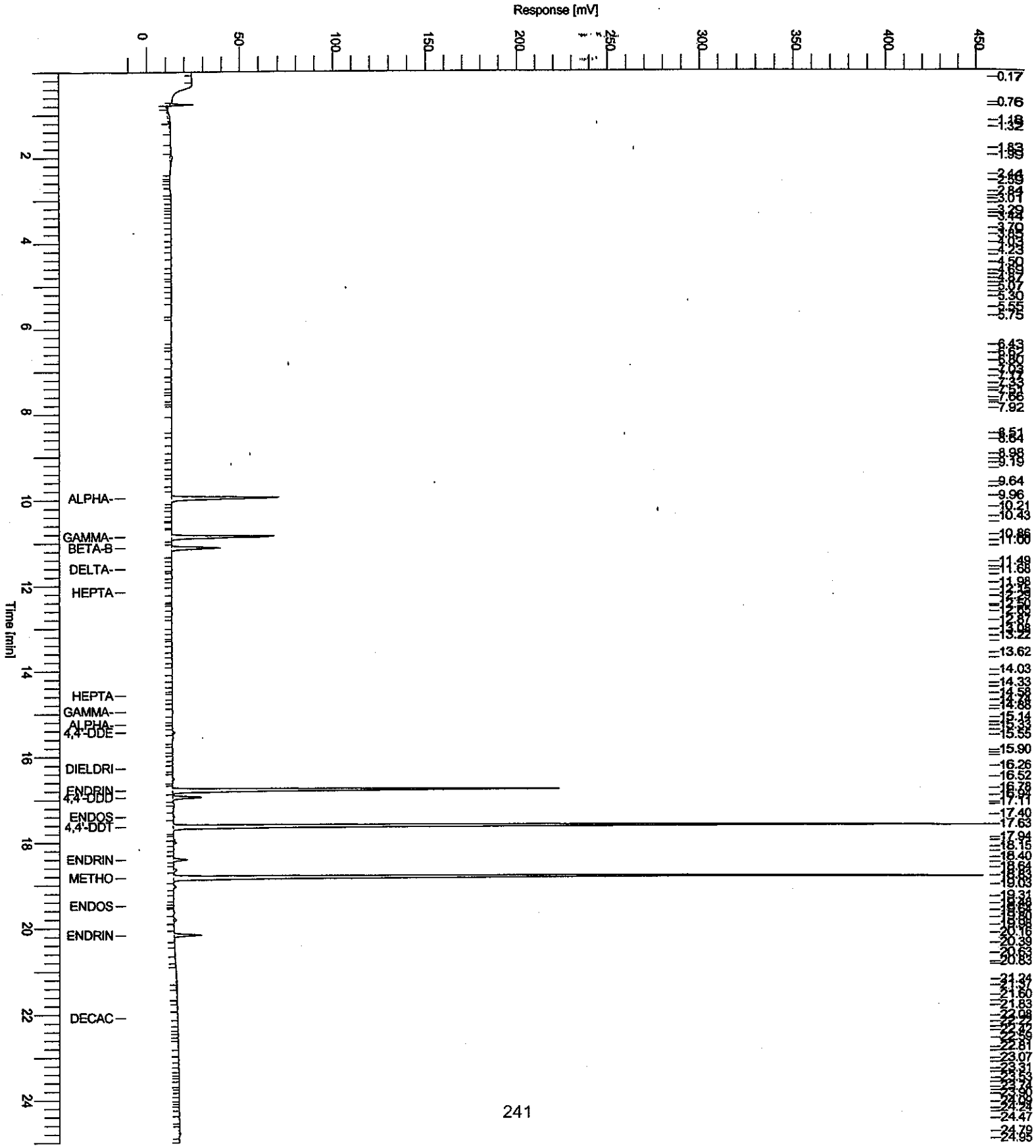
Report stored in ASCII file: G:\gc23\CHA\244a034.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHa\244a034.raw
ate : 9/1/04 10:24:08 AM
lethod : gc23ins Time of Injection: 9/1/04 5:08:19 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -12.20 mV High Point : 456.25 mV
cale Factor: 1.0 Plot Offset: -12.20 mV Plot Scale: 468.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws0930
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 34

Date : 9/1/04 10:24:22 AM
Data Acquisition Time : 9/1/04 5:08:19 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b034.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

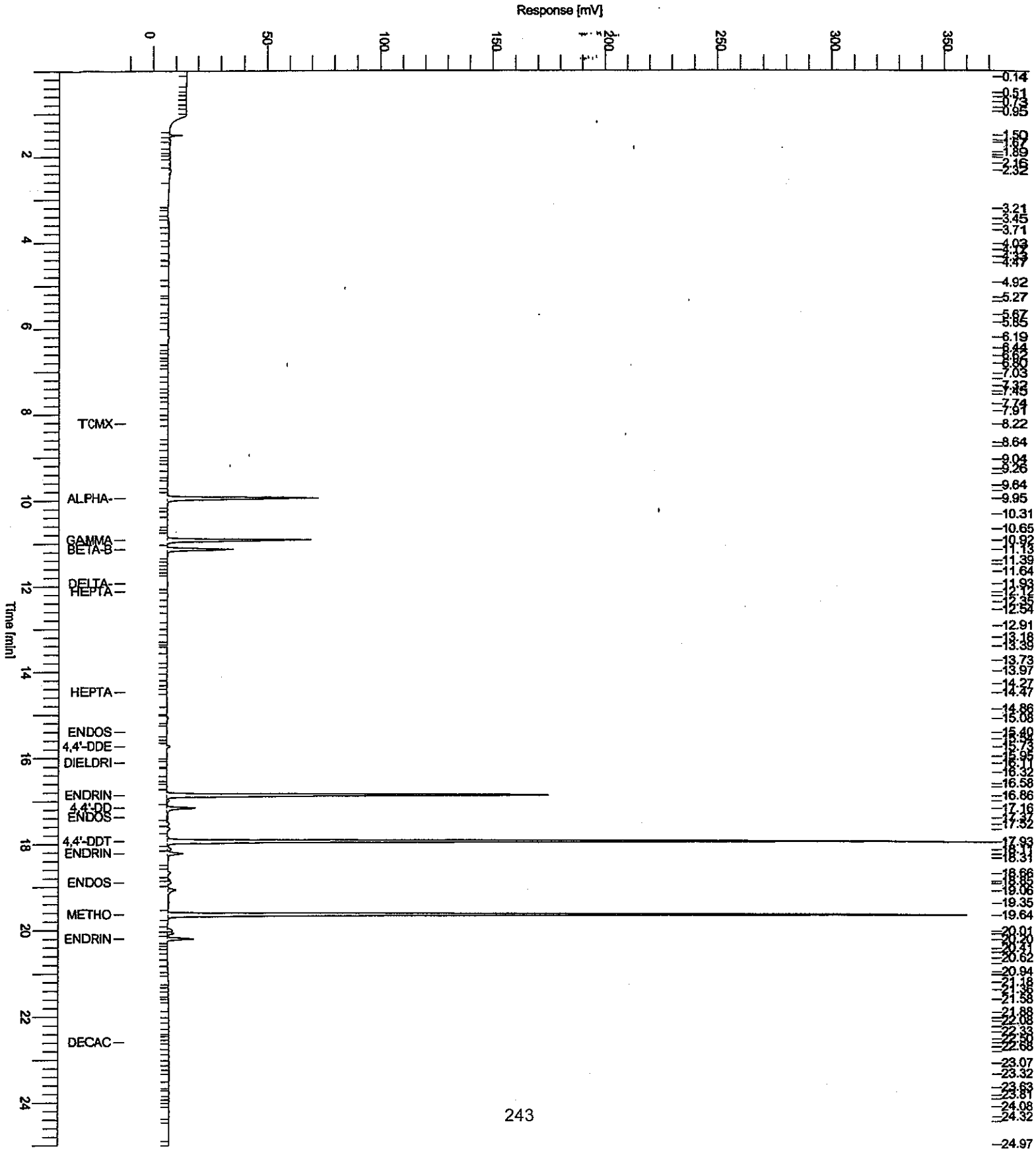
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.218	256.00	0.0212	1.000	1	0.02
alpha-BHC	9.948	196819.74	10.5715	1.000	1	10.57
gamma-BHC	10.919	182678.00	10.8393	1.000	1	10.84
beta-BHC	11.134	82811.00	10.9843	1.000	1	10.98
delta-BHC	11.932	1045.32	0.0591	1.000	1	0.06
Heptachlor	12.122	284.74	0.0246	1.000	1	0.02
Aldrin	12.982	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.474	181.00	0.0127	1.000	1	0.01
gamma-Chlordane	14.934	0.00	0.0000	1.000	1	0.00
alpha-Chlordane	15.309	0.00	0.0000	1.000	1	0.00
Endosulfan I	15.398	989.00	0.0752	1.000	1	0.08
4,4'-DDE	15.730	3872.50	0.2902	1.000	1	0.29
Dieldrin	16.108	141.50	0.0102	1.000	1	0.01
Endrin	16.861	511401.64	49.1801	1.000	1	49.18
4,4'-DDD	17.156	40997.67	3.8763	1.000	1	3.88
Endosulfan II	17.372	3023.00	0.2542	1.000	1	0.25
4,4'-DDT	17.933	922568.64	95.9917	1.000	1	95.99
Endrin aldehyde	18.216	21759.20	2.2049	1.000	1	2.20
Endosulfan sulfate	18.892	5704.82	0.5172	1.000	1	0.52
Methoxychlor	19.638	953719.50	242.8914	1.000	1	242.89
Endrin ketone	20.197	30886.50	2.6668	1.000	1	2.67
Decachlorobiphenyl	22.591	192.49	0.0299	1.000	1	0.03
		2959332.26	430.5009			430.50

CURTIS & TOMPKINS LTD

Report stored in ASCII file: G:\gc23\CHB\244b034.TX0

GC23 Rtx-CLPesticides2

Sample Name : pem,04ws0930 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHb\244b034
Date : 9/1/04 10:24:25 AM
Method : gc23ins Time of Injection: 9/1/04 5:08:19 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -11.97 mV High Point : 371.47 mV
Scale Factor: 1.0 Plot Offset: -11.97 mV Plot Scale: 383.4 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804352004003 Filename : 244_003 Injected : 31-AUG-2004 11:42
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1434

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	18696	20.00000	21.43503	pg	7	15	
gamma-BHC	A	15725	16821	20.00000	21.39361	pg	7	15	
beta-BHC	A	6765.0	7213.2	20.00000	21.32511	pg	7	15	
delta-BHC	A	16456	17126	20.00000	20.81431	pg	4	15	
Heptachlor	A	14010	13887	20.00000	19.82443	pg	-1	15	
Aldrin	A	14295	15487	20.00000	21.66741	pg	8	15	
Heptachlor epoxide	A	13130	14250	20.00000	21.70455	pg	9	15	
gamma-Chlordane	A	13395	14429	20.00000	21.54417	pg	8	15	
alpha-Chlordane	A	12715	13899	20.00000	21.86171	pg	9	15	
4,4'-DDE	A	12199	14168	40.00000	46.45724	pg	**16**	15	c+ ***
Endosulfan I	A	12083	13046	20.00000	21.59340	pg	8	15	
Dieldrin	A	12776	14301	40.00000	44.77419	pg	12	15	
Endrin	A	10555	9435.9	40.00000	35.75846	pg	-11	15	
4,4'-DDD	A	9747.9	11087	40.00000	45.49436	pg	14	15	
Endosulfan II	A	11037	12131	40.00000	43.96597	pg	10	15	
4,4'-DDT	A	9946.1	9527.1	40.00000	38.31476	pg	-4	15	
Endrin aldehyde	A	9333.6	9683.4	40.00000	41.49900	pg	4	15	rsd ***
Methoxychlor	A	4119.4	4143.8	200.0000	201.1854	pg	1	15	
Endosulfan sulfate	A	9970.7	10209	40.00000	40.95538	pg	2	15	rsd ***
Endrin ketone	A	11378	12856	40.00000	45.19324	pg	13	15	
TCMX	A	11206	11995	40.00000	42.81738	pg	7	15	
Decachlorobiphenyl	A	6860.7	6763.0	40.00000	39.43042	pg	-1	15	
alpha-BHC	B	18618	17877	20.00000	19.20356	pg	-4	15	
gamma-BHC	B	16853	15974	20.00000	18.95657	pg	-5	15	
beta-BHC	B	7539.0	7088.1	20.00000	18.80374	pg	-6	15	
delta-BHC	B	17681	16211	20.00000	18.33759	pg	-8	15	
Heptachlor	B	11573	9771.0	20.00000	16.88606	pg	**-16**	15	c- ***
Aldrin	B	15576	14907	20.00000	19.14036	pg	-4	15	
Heptachlor epoxide	B	14304	13329	20.00000	18.63745	pg	-7	15	
gamma-Chlordane	B	14552	13859	20.00000	19.04762	pg	-5	15	
alpha-Chlordane	B	13966	13283	20.00000	19.02307	pg	-5	15	
4,4'-DDE	B	13346	13264	40.00000	39.75352	pg	-1	15	
Endosulfan I	B	13152	12343	20.00000	18.77083	pg	-6	15	
Dieldrin	B	13833	12975	40.00000	37.51993	pg	-6	15	
Endrin	B	10399	7782.6	40.00000	29.93719	pg	**-25**	15	c- ***
4,4'-DDD	B	10577	10028	40.00000	37.92661	pg	-5	15	
Endosulfan II	B	11891	11281	40.00000	37.94736	pg	-5	15	
4,4'-DDT	B	9610.9	7742.9	40.00000	32.22537	pg	**-19**	15	c- ***
Endrin aldehyde	B	9868.4	9046.9	40.00000	36.67015	pg	-8	15	rsd ***
Methoxychlor	B	3926.5	3162.5	200.0000	161.0831	pg	**-19**	15	c- ***
Endosulfan sulfate	B	11029	9907.9	40.00000	35.93310	pg	-10	15	rsd ***
Endrin ketone	B	11582	10952	40.00000	37.82513	pg	-5	15	rsd ***
TCMX	B	12101	11535	40.00000	38.13024	pg	-5	15	
Decachlorobiphenyl	B	6429.3	5703.0	40.00000	35.48162	pg	-11	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				9	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1434,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 3

Date : 8/31/04 3:38:21 PM
Data Acquisition Time : 8/31/04 11:42:54 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a003p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.315	479791.68	42.8174	1.000	1	42.82
alpha-BHC	9.953	373923.30	21.4350	1.000	1	21.44
gamma-BHC	10.852	336410.85	21.3936	1.000	1	21.39
beta-BHC	11.114	144264.54	21.3251	1.000	1	21.33
delta-BHC	11.602	342516.05	20.8143	1.000	1	20.81
Heptachlor	12.166	277740.18	19.8244	1.000	1	19.82
Aldrin	12.977	309735.88	21.6674	1.000	1	21.67
Heptachlor epoxide	14.579	284991.00	21.7045	1.000	1	21.70
gamma-Chlordane	14.898	288579.00	21.5442	1.000	1	21.54
alpha-Chlordane	15.234	277979.00	21.8617	1.000	1	21.86
4,4'-DDE	15.431	566723.50	46.4572	1.000	1	46.46
Endosulfan I	15.586	260920.00	21.5934	1.000	1	21.59
Dieldrin	16.196	572034.00	44.7742	1.000	1	44.77
Endrin	16.780	377437.00	35.7585	1.000	1	35.76
4,4'-DDD	16.936	443473.00	45.4944	1.000	1	45.49
Endosulfan II	17.347	485231.00	43.9660	1.000	1	43.97
4,4'-DDT	17.631	381083.50	38.3148	1.000	1	38.31
Endrin aldehyde	18.396	387337.04	41.4990	1.000	1	41.50
Methoxychlor	18.828	828753.62	201.1854	1.000	1	201.19
Endosulfan sulfate	19.481	408355.74	40.9554	1.000	1	40.96
Endrin ketone	20.161	514221.28	45.1932	1.000	1	45.19
Decachlorobiphenyl	22.017	270521.38	39.4304	1.000	1	39.43
		8612022.55	879.0095			879.01

8/31/04

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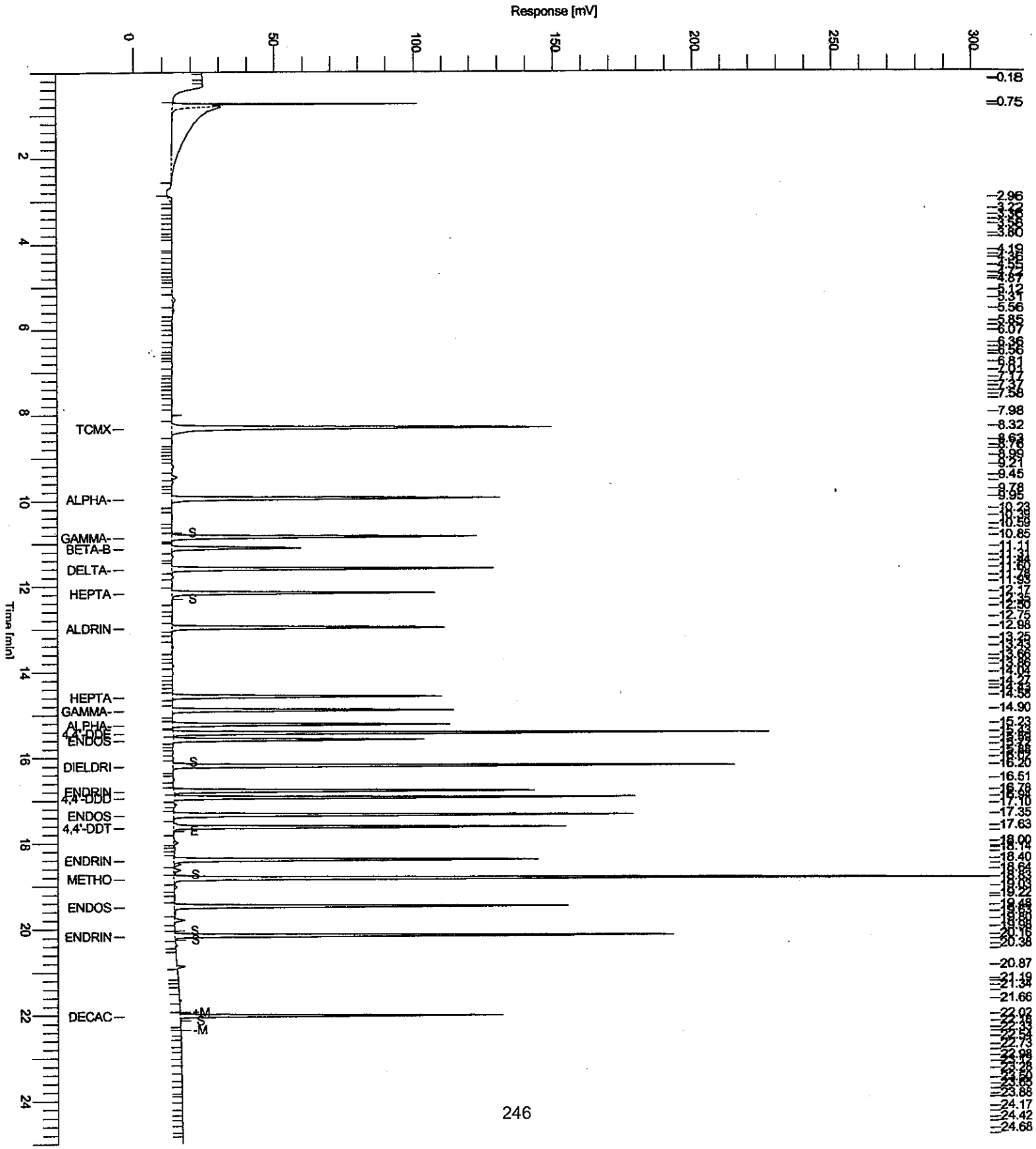
Report stored in ASCII file: G:\gc23\CHA\244a003p.TX0

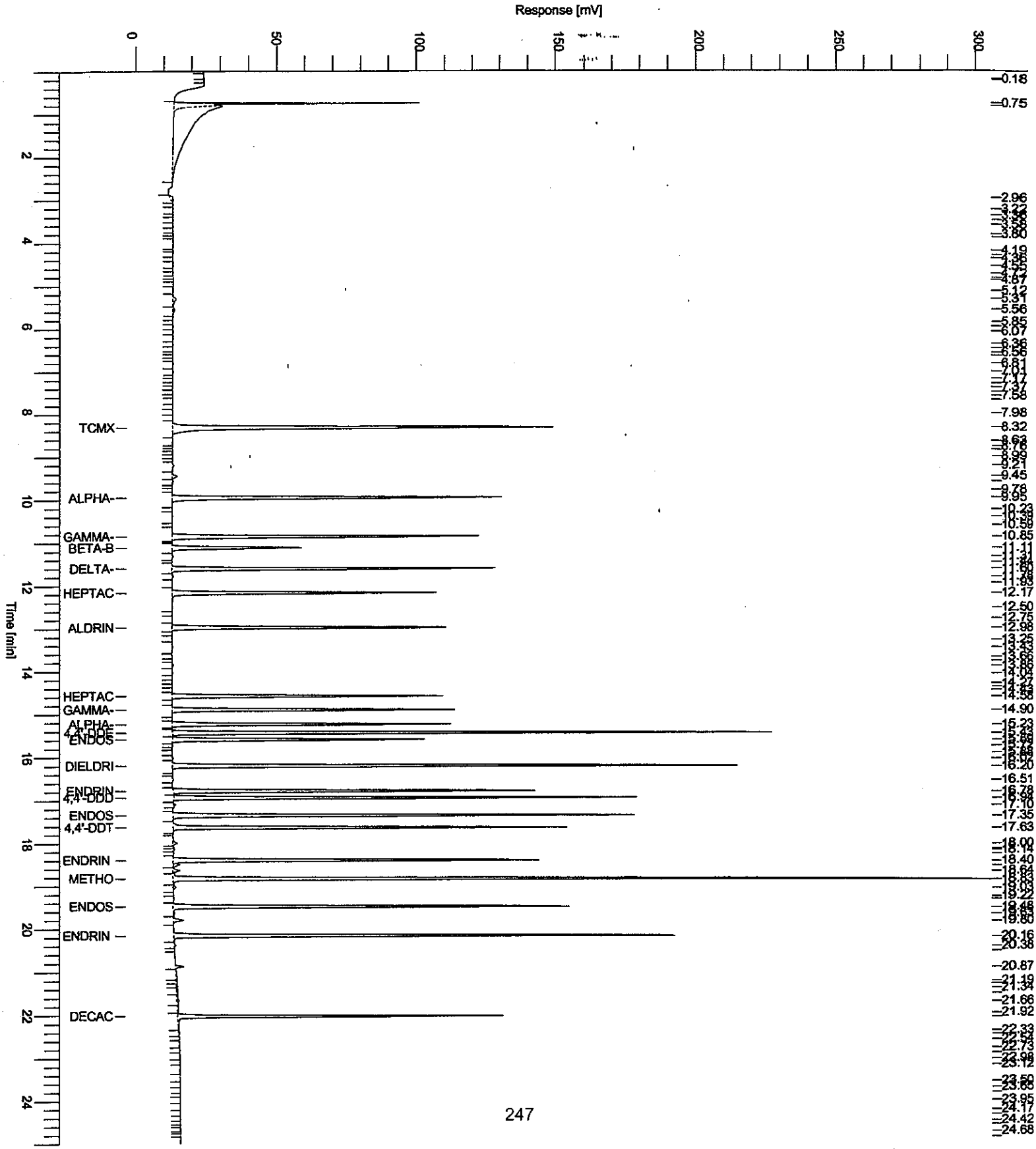
GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1434,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHa\244a003.raw
ate : 8/31/04 3:38:26 PM
lethod :
Time of Injection: 8/31/04 11:42:54 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.88 mV High Point : 305.71 mV
lot Offset: -3.88 mV Plot Scale: 309.6 mV



GC23 Rtx-CLPesticides

Sample Name : x,ccv,04ws1434,pest_4 Sample #: 20/40 ug/L Page 1 of 1
FileName :-G:\gc23\CHa\244a003.raw
Date : 8/31/04 12:09:15 PM
Method : gc23ins Time of Injection: 8/31/04 11:42:54 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -3.10 mV High Point : 305.71 mV
Scale Factor: 1.0 Plot Offset: -3.10 mV Plot Scale: 308.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1434,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 3

Date : 8/31/04 3:40:41 PM
Data Acquisition Time : 8/31/04 11:42:54 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b003p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.235	461406.00	38.1302	1.000	1	38.13
alpha-BHC	9.946	357530.50	19.2036	1.000	1	19.20
gamma-BHC	10.917	319482.00	18.9566	1.000	1	18.96
beta-BHC	11.132	141762.00	18.8037	1.000	1	18.80
delta-BHC	11.921	324220.59	18.3376	1.000	1	18.34
Heptachlor	12.104	195420.42	16.8861	1.000	1	16.89
Aldrin	12.950	298130.50	19.1404	1.000	1	19.14
Heptachlor epoxide	14.430	266582.00	18.6375	1.000	1	18.64
gamma-Chlordane	14.903	277176.00	19.0476	1.000	1	19.05
alpha-Chlordane	15.280	265667.00	19.0231	1.000	1	19.02
Endosulfan I	15.414	246869.00	18.7708	1.000	1	18.77
4,4'-DDE	15.722	530568.09	39.7535	1.000	1	39.75
Dieldrin	16.101	519004.15	37.5199	1.000	1	37.52
Endrin	16.855	311303.12	29.9372	1.000	1	29.94
4,4'-DDD	17.153	401131.01	37.9266	1.000	1	37.93
Endosulfan II	17.378	451240.41	37.9474	1.000	1	37.95
4,4'-DDT	17.932	309715.56	32.2254	1.000	1	32.23
Endrin aldehyde	18.215	361875.23	36.6701	1.000	1	36.67
Endosulfan sulfate	18.895	396315.22	35.9331	1.000	1	35.93
Methoxychlor	19.638	632497.05	161.0831	1.000	1	161.08
Endrin ketone	20.197	438083.82	37.8251	1.000	1	37.83
Decachlorobiphenyl	22.534	228121.74	35.4816	1.000	1	35.48
		7734101.40	747.2402			747.24

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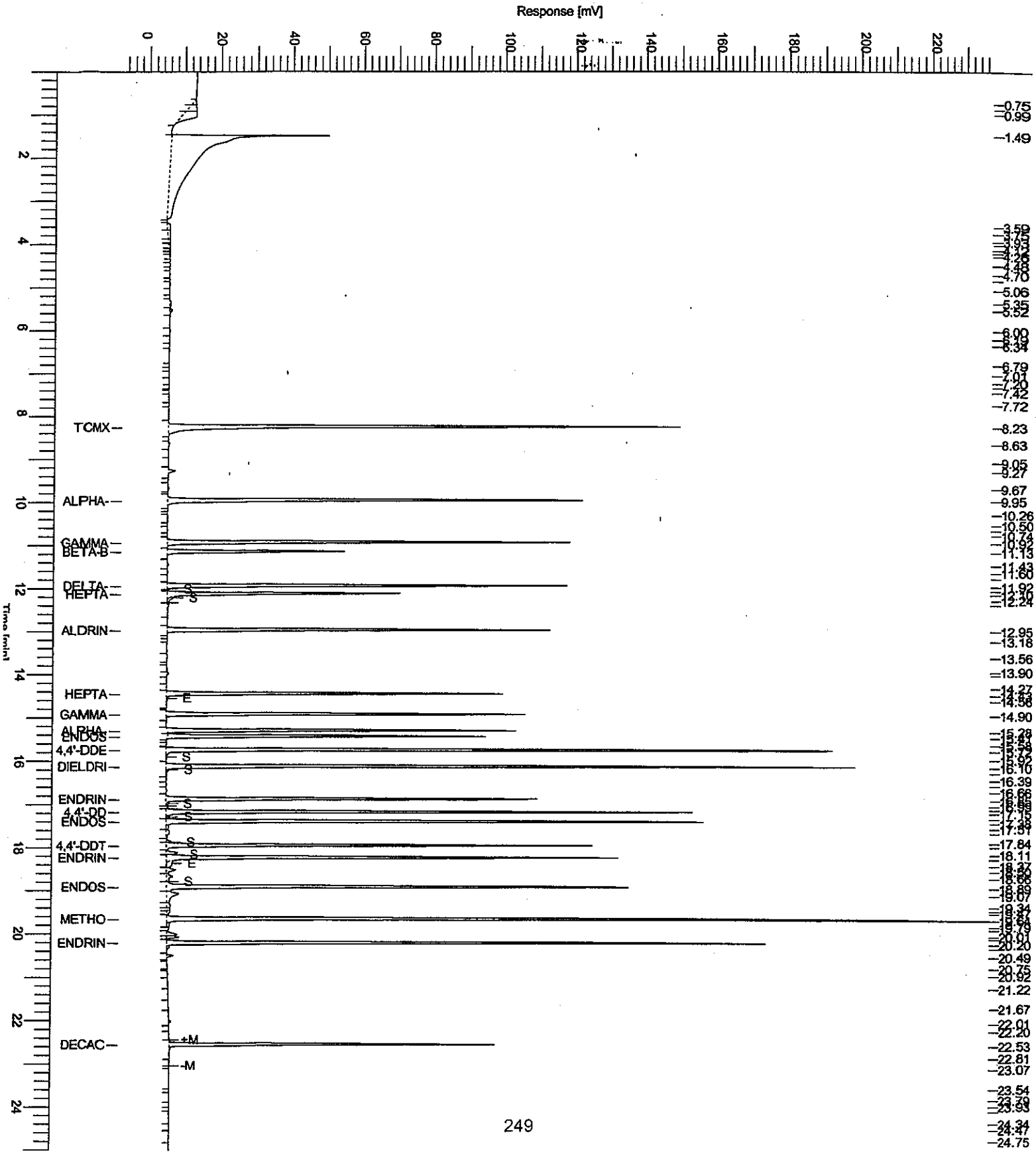
Report stored in ASCII file: G:\gc23\CHB\244b003p.TX0

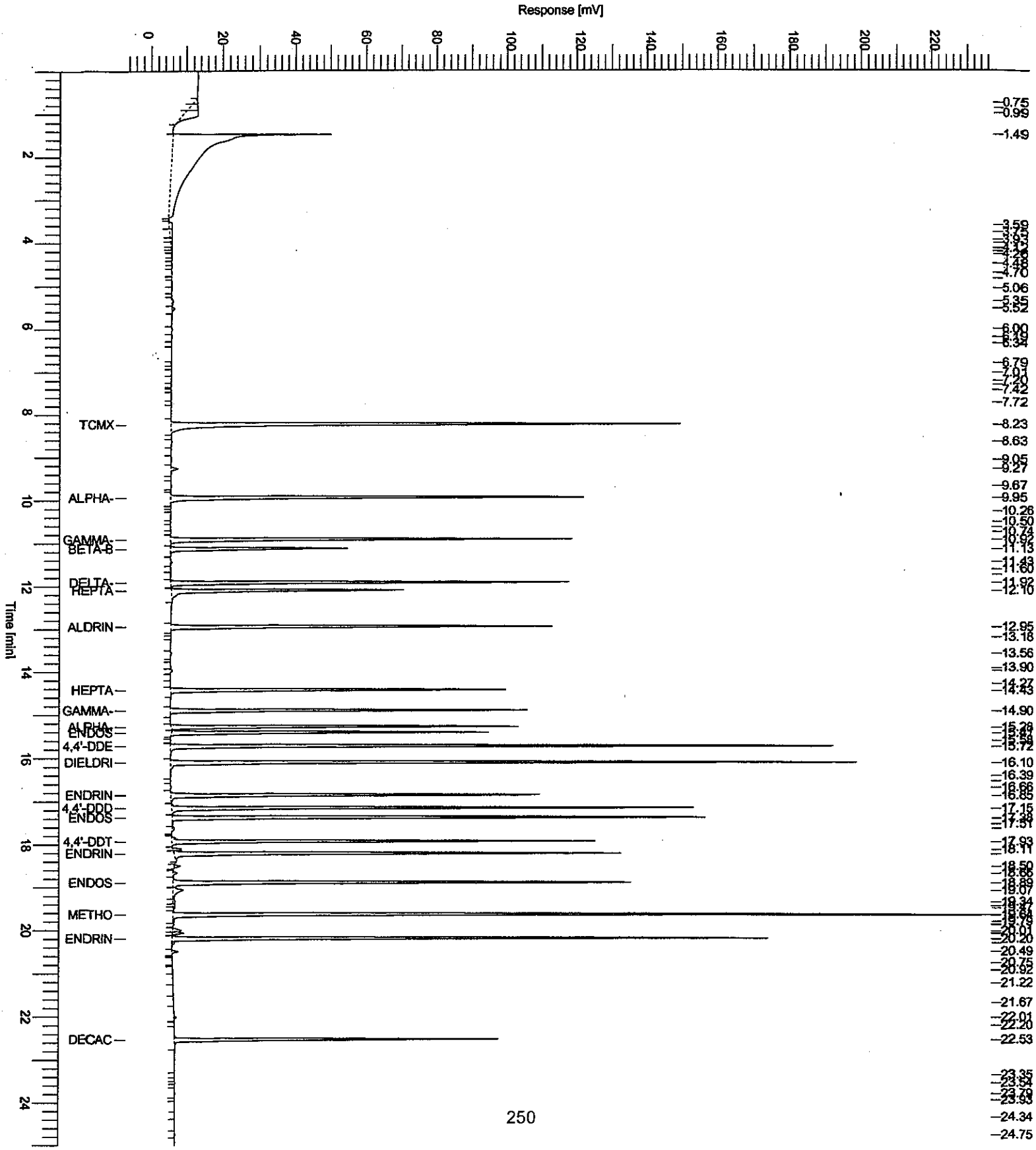
GC23 Rtx-CLPesticides2

Sample Name : xccv,04ws1434,pest_4 Sample #: 20/40 ug/L
FileName : G:\gc23\CHb\244b003.raw
Date : 8/31/04 3:40:46 PM
Method : Time of Injection: 8/31/04 11:42:54 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -7.47 mV High Point : 237.42 mV
Plot Offset: -7.47 mV Plot Scale: 244.9 mV



GC23 Rtx-CLPesticides2

Sample Name : x,ccv,04ws1434,pest_4 Sample #: 20/40 ug/L Page 1 of 1
FileName : G:\gc23\CHb\244b003
Date : 8/31/04 12:09:32 PM
Method : gc23ins Time of Injection: 8/31/04 11:42:54 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -6.86 mV High Point : 237.42 mV
Scale Factor: 1.0 Plot Offset: -6.86 mV Plot Scale: 244.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804352004018 Filename : 244_018 Injected : 31-AUG-2004 21:16
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1511

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	18564	10.00000	10.64175	pg	6	15	
gamma-BHC	A	15725	16815	10.00000	10.69346	pg	7	15	
beta-BHC	A	6765.0	7412.6	10.00000	10.95727	pg	10	15	
delta-BHC	A	16456	16872	10.00000	10.25316	pg	3	15	
Heptachlor	A	14010	14022	10.00000	10.00846	pg	0	15	
Aldrin	A	14295	15398	10.00000	10.77138	pg	8	15	
Heptachlor epoxide	A	13130	14266	10.00000	10.86480	pg	9	15	
gamma-Chlordane	A	13395	14274	10.00000	10.65633	pg	7	15	
alpha-Chlordane	A	12715	13822	10.00000	10.87018	pg	9	15	
4,4'-DDE	A	12199	13312	20.00000	21.82547	pg	9	15	
Endosulfan I	A	12083	13063	10.00000	10.81044	pg	8	15	
Dieldrin	A	12776	13754	20.00000	21.53160	pg	8	15	
Endrin	A	10555	9683.9	20.00000	18.34900	pg	-8	15	
4,4'-DDD	A	9747.9	10936	20.00000	22.43845	pg	12	15	
Endosulfan II	A	11037	11761	20.00000	21.31235	pg	7	15	
4,4'-DDT	A	9946.1	9262.1	20.00000	18.62453	pg	-7	15	
Endrin aldehyde	A	9333.6	9442.8	20.00000	20.23399	pg	1	15	rsd ***
Methoxychlor	A	4119.4	3965.7	100.0000	96.26951	pg	-4	15	
Endosulfan sulfate	A	9970.7	9998.6	20.00000	20.05596	pg	0	15	rsd ***
Endrin ketone	A	11378	12372	20.00000	21.74691	pg	9	15	
TCMX	A	11206	12059	20.00000	21.52356	pg	8	15	
Decachlorobiphenyl	A	6860.7	7043.1	20.00000	20.53164	pg	3	15	
alpha-BHC	B	18618	19385	10.00000	10.41228	pg	4	15	
gamma-BHC	B	16853	17407	10.00000	10.32859	pg	3	15	
beta-BHC	B	7539.0	7884.7	10.00000	10.45851	pg	5	15	
delta-BHC	B	17681	17423	10.00000	9.854215	pg	-1	15	
Heptachlor	B	11573	10847	10.00000	9.372412	pg	-6	15	
Aldrin	B	15576	15969	10.00000	10.25237	pg	3	15	
Heptachlor epoxide	B	14304	14468	10.00000	10.11503	pg	1	15	
gamma-Chlordane	B	14552	14626	10.00000	10.05103	pg	1	15	
alpha-Chlordane	B	13966	14038	10.00000	10.05190	pg	1	15	
4,4'-DDE	B	13346	13378	20.00000	20.04803	pg	0	15	
Endosulfan I	B	13152	13207	10.00000	10.04194	pg	0	15	
Dieldrin	B	13833	13714	20.00000	19.82869	pg	-1	15	
Endrin	B	10399	8220.6	20.00000	15.81097	pg	-21	15	c- ***
4,4'-DDD	B	10577	10586	20.00000	20.01845	pg	0	15	
Endosulfan II	B	11891	11652	20.00000	19.59711	pg	-2	15	
4,4'-DDT	B	9610.9	7716.4	20.00000	16.05756	pg	-20	15	c- ***
Endrin aldehyde	B	9868.4	9381.3	20.00000	19.01289	pg	-5	15	rsd ***
Methoxychlor	B	3926.5	3137.2	100.0000	79.89641	pg	-20	15	c- ***
Endosulfan sulfate	B	11029	10079	20.00000	18.27716	pg	-9	15	rsd ***
Endrin ketone	B	11582	11368	20.00000	19.63055	pg	-2	15	rsd ***
TCMX	B	12101	12789	20.00000	21.13804	pg	6	15	
Decachlorobiphenyl	B	6429.3	5896.3	20.00000	18.34190	pg	-8	15	
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1511,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 9/1/04 11:15:10 AM
Data Acquisition Time : 8/31/04 9:16:49 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a018p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.318	241183.05	21.5236	1.000	1	21.52
alpha-BHC	9.956	185640.00	10.6418	1.000	1	10.64
gamma-BHC	10.855	168152.83	10.6935	1.000	1	10.69
beta-BHC	11.117	74126.00	10.9573	1.000	1	10.96
delta-BHC	11.605	168723.93	10.2532	1.000	1	10.25
Heptachlor	12.169	140218.50	10.0085	1.000	1	10.01
Aldrin	12.980	153977.00	10.7714	1.000	1	10.77
Heptachlor epoxide	14.583	142660.00	10.8648	1.000	1	10.86
gamma-Chlordane	14.901	142739.00	10.6563	1.000	1	10.66
alpha-Chlordane	15.237	138218.00	10.8702	1.000	1	10.87
4,4'-DDE	15.434	266245.00	21.8255	1.000	1	21.83
Endosulfan I	15.594	130626.00	10.8104	1.000	1	10.81
Dieldrin	16.199	275087.19	21.5316	1.000	1	21.53
Endrin	16.783	193677.00	18.3490	1.000	1	18.35
4,4'-DDD	16.944	218727.00	22.4384	1.000	1	22.44
Endosulfan II	17.350	235214.00	21.3123	1.000	1	21.31
4,4'-DDT	17.634	185242.00	18.6245	1.000	1	18.62
Endrin aldehyde	18.400	188856.99	20.2340	1.000	1	20.23
Methoxychlor	18.831	396568.11	96.2695	1.000	1	96.27
Endosulfan sulfate	19.483	199972.96	20.0560	1.000	1	20.06
Endrin ketone	20.164	247442.35	21.7469	1.000	1	21.75
Decachlorobiphenyl	22.021	140861.97	20.5316	1.000	1	20.53
		4234158.89	430.9702			430.97

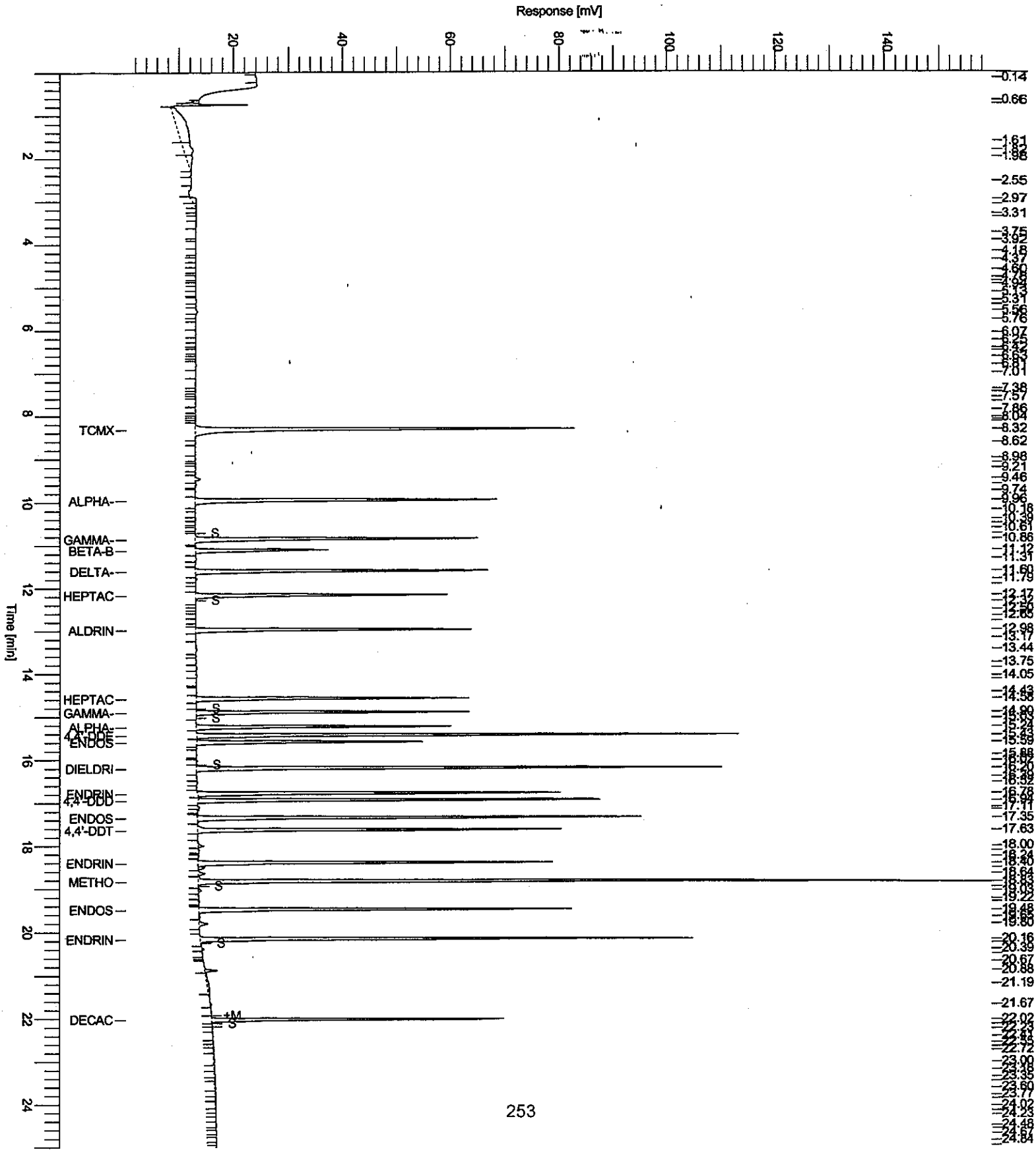
9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a018p.TX0

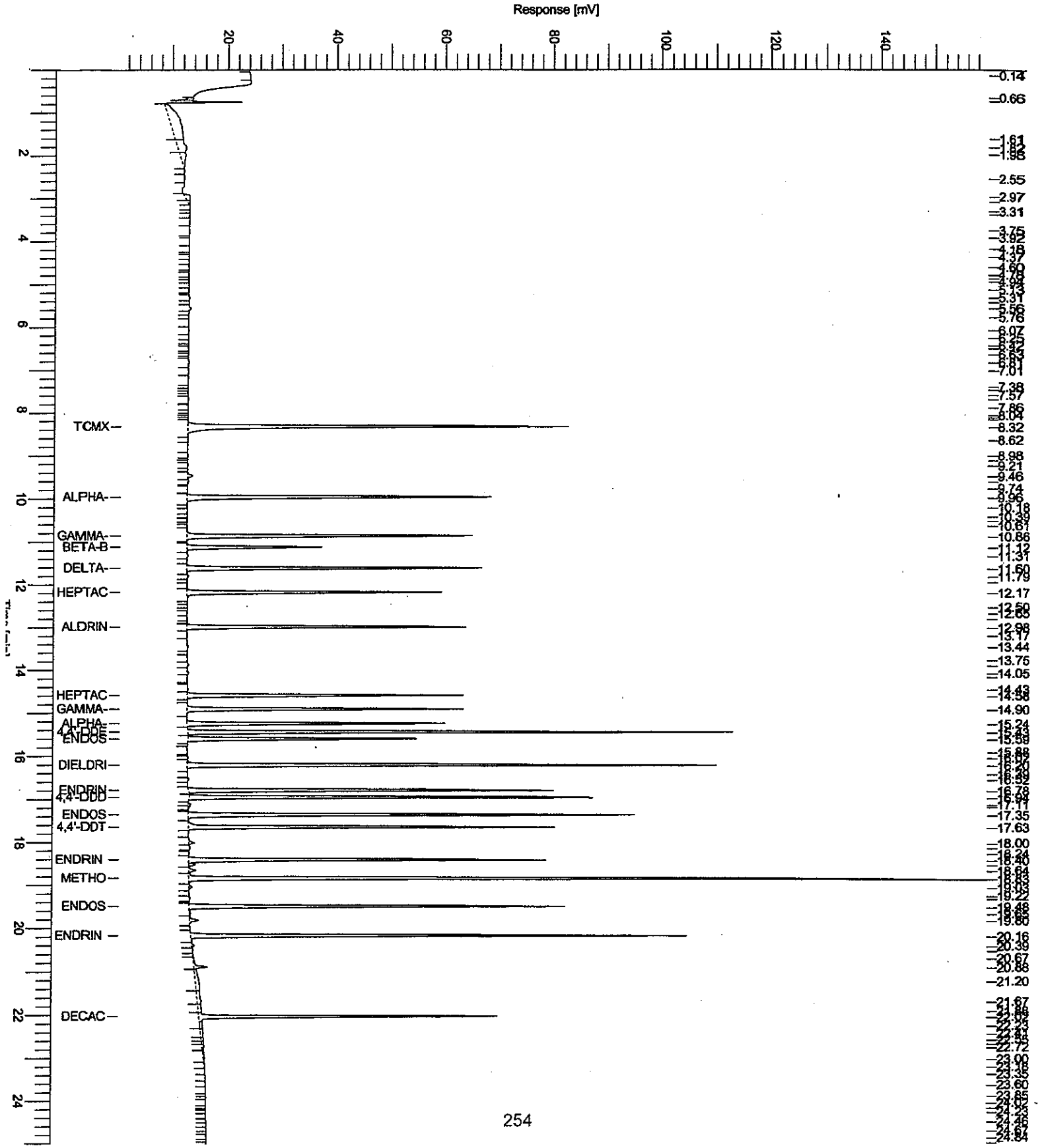
GC23 Rtx-CLPesticides

Sample Name : ccv,04ws1511,pest_3 Sample #: 10/20 ug/L Page 1 of 1
FileName : G:\gc23\CHA\244a018.raw
Date : 9/1/04 11:15:16 AM
Method :
Time of Injection: 8/31/04 9:16:49 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.37 mV High Point : 159.87 mV
Plot Offset: 0.37 mV Plot Scale: 159.5 mV



GC23 Rtx-CLPesticides

ample Name : ccv,04ws1511,pest_3 Sample #: 10/20 ug/L Page 1 of 1
ileName : G:\gc23\CHA\244a018.raw
ate : 9/1/04 10:23:28 AM
ethod : gc23ins Time of Injection: 8/31/04 9:16:49 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.77 mV High Point : 159.87 mV
cale Factor: 1.0 Plot Offset: 0.77 mV Plot Scale: 159.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1511,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 9/1/04 11:17:28 AM
Data Acquisition Time : 8/31/04 9:16:49 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b018p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.238	255787.00	21.1380	1.000	1	21.14
alpha-BHC	9.949	193854.99	10.4123	1.000	1	10.41
gamma-BHC	10.920	174071.57	10.3286	1.000	1	10.33
beta-BHC	11.135	78847.00	10.4585	1.000	1	10.46
delta-BHC	11.928	174229.00	9.8542	1.000	1	9.85
Heptachlor	12.106	108465.84	9.3724	1.000	1	9.37
Aldrin	12.952	159691.00	10.2524	1.000	1	10.25
Heptachlor epoxide	14.433	144681.00	10.1150	1.000	1	10.12
gamma-Chlordane	14.906	146260.00	10.0510	1.000	1	10.05
alpha-Chlordane	15.283	140380.00	10.0519	1.000	1	10.05
Endosulfan I	15.417	132069.00	10.0419	1.000	1	10.04
4,4'-DDE	15.730	267569.93	20.0480	1.000	1	20.05
Dieldrin	16.103	274285.53	19.8287	1.000	1	19.83
Endrin	16.862	164411.04	15.8110	1.000	1	15.81
4,4'-DDD	17.161	211725.22	20.0184	1.000	1	20.02
Endosulfan II	17.380	233033.54	19.5971	1.000	1	19.60
4,4'-DDT	17.934	154328.00	16.0576	1.000	1	16.06
Endrin aldehyde	18.217	187626.56	19.0129	1.000	1	19.01
Endosulfan sulfate	18.897	201583.44	18.2772	1.000	1	18.28
Methoxychlor	19.645	313715.34	79.8964	1.000	1	79.90
Endrin ketone	20.199	227357.50	19.6306	1.000	1	19.63
Decachlorobiphenyl	22.536	117925.47	18.3419	1.000	1	18.34
		4061897.96	388.5961			388.60

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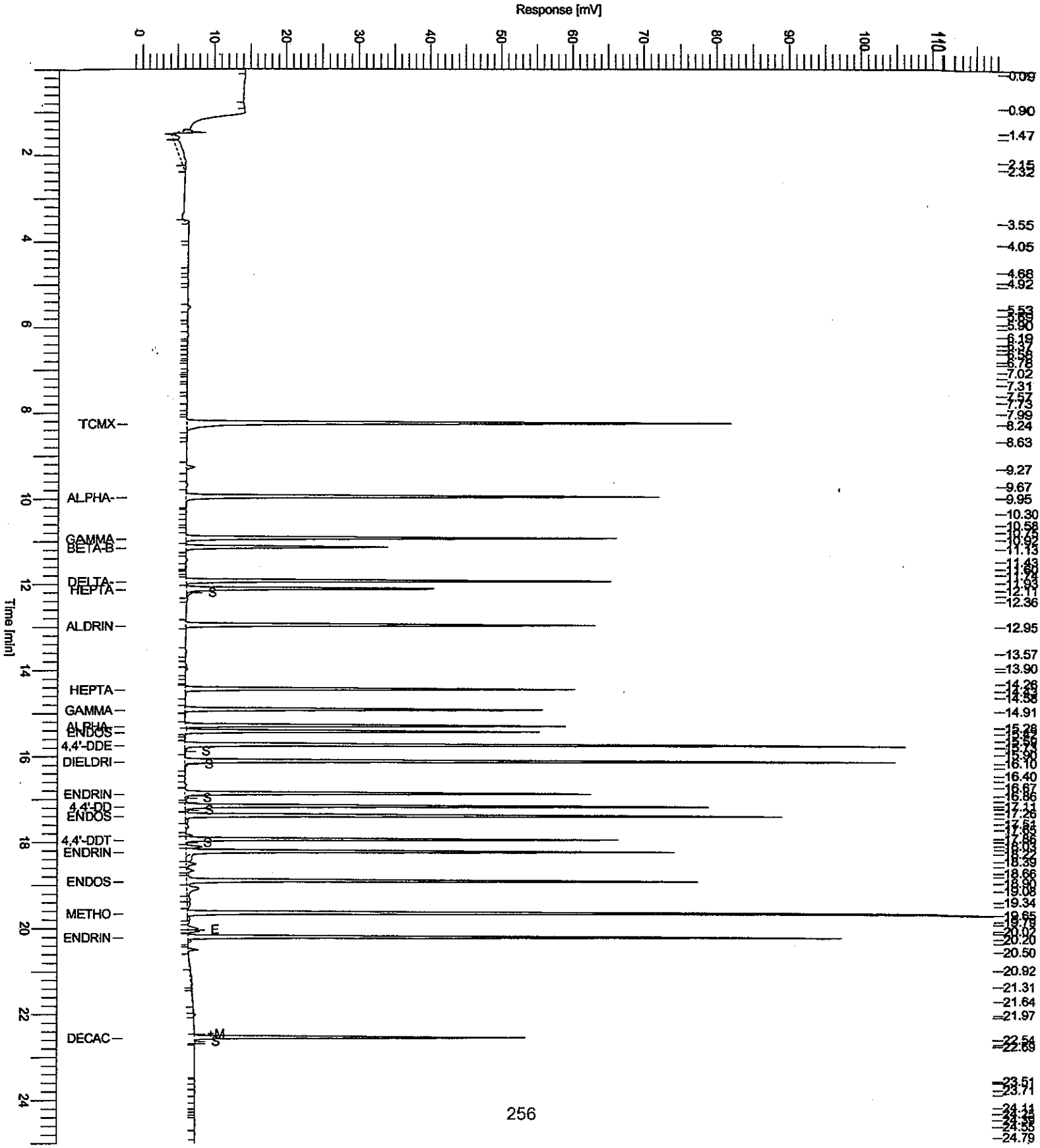
Report stored in ASCII file: G:\gc23\CHB\244b018p.TX0

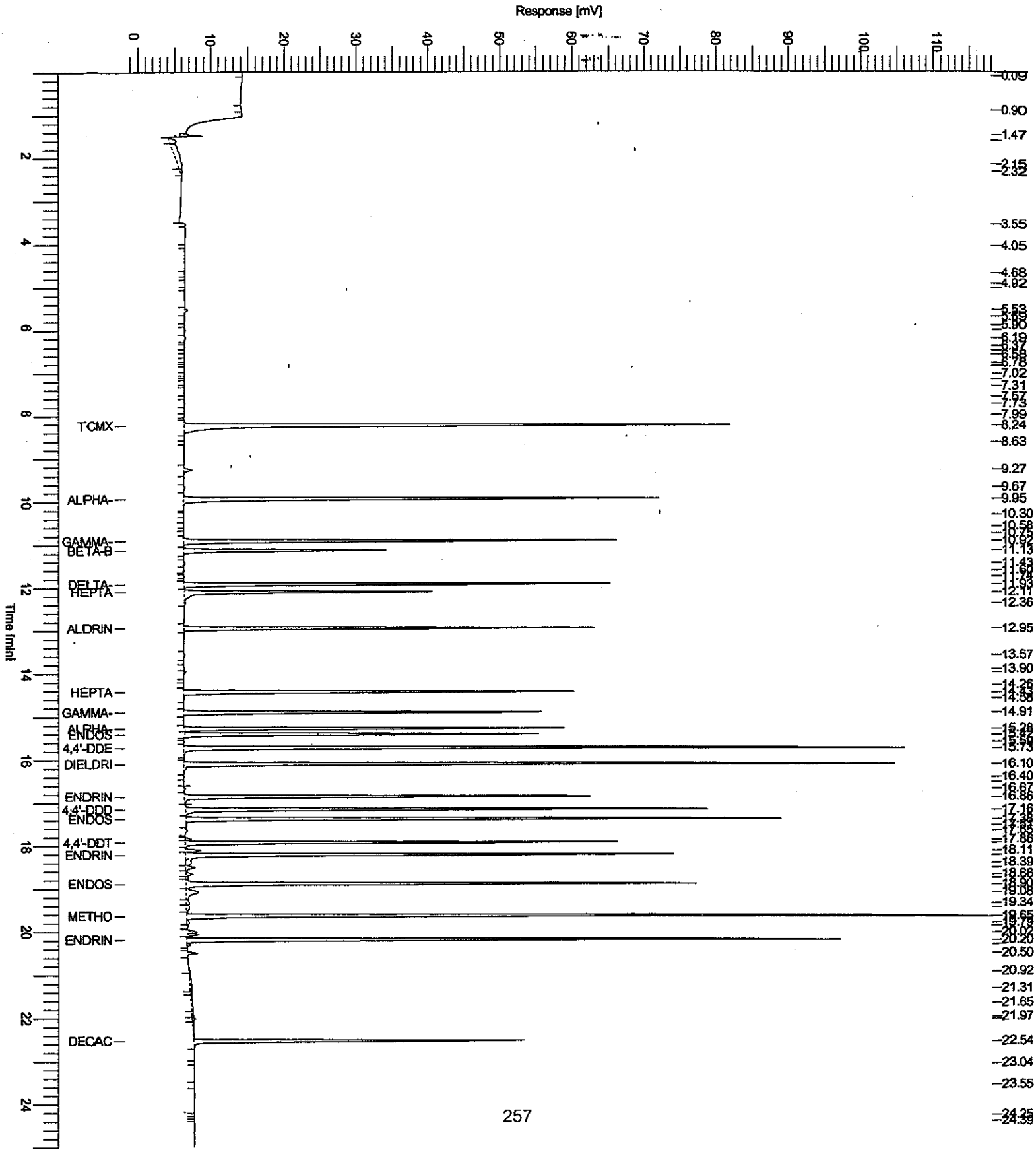
GC23 Rtx-CLPesticides2

Sample Name : ccv,04ws1511,pest_3 Sample #: 10/20 ug/L Page 1 of 1
FileName : G:\gc23\CHb\244b018.raw
Date : 9/1/04 11:17:33 AM
Method :
Time of Injection: 8/31/04 9:16:49 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.92 mV High Point : 118.02 mV
Plot Offset: -1 .92 mV Plot Scale: 119.9 mV



GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1511,pest_3 Sample #: 10/20 ug/L Page 1 of 1
ileName : G:\gc23\CHb\244b018
ate : 9/1/04 10:23:52 AM
lethod : gc23ns Time of Injection: 8/31/04 9:16:49 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.62 mV High Point : 118.02 mV
cale Factor: 1.0 Plot Offset: -1.62 mV Plot Scale: 119.6 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804352004035 Filename : 244_035 Injected : 01-SEP-2004 05:37
Calnum : 804335061001 Caldate : 19-AUG-2004 Caltype :
Standards: 04WS1434

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17444	19289	20.00000	22.11491	pg	11	15	
gamma-BHC	A	15725	17367	20.00000	22.08837	pg	10	15	
beta-BHC	A	6765.0	7440.8	20.00000	21.99790	pg	10	15	
delta-BHC	A	16456	17622	20.00000	21.41742	pg	7	15	
Heptachlor	A	14010	14574	20.00000	20.80518	pg	4	15	
Aldrin	A	14295	15858	20.00000	22.18634	pg	11	15	
Heptachlor epoxide	A	13130	14554	20.00000	22.16847	pg	11	15	
gamma-Chlordane	A	13395	14713	20.00000	21.96874	pg	10	15	
alpha-Chlordane	A	12715	14099	20.00000	22.17606	pg	11	15	
4,4'-DDE	A	12199	14323	40.00000	46.96553	pg	17	15	c+ ***
Endosulfan I	A	12083	13281	20.00000	21.98282	pg	10	15	
Dieldrin	A	12776	14690	40.00000	45.99150	pg	15	15	
Endrin	A	10555	9850.5	40.00000	37.32964	pg	-7	15	
4,4'-DDD	A	9747.9	11536	40.00000	47.33815	pg	18	15	c+ ***
Endosulfan II	A	11037	12184	40.00000	44.15752	pg	10	15	
4,4'-DDT	A	9946.1	9737.7	40.00000	39.16157	pg	-2	15	
Endrin aldehyde	A	9333.6	9727.8	40.00000	41.68936	pg	4	15	rsd ***
Methoxychlor	A	4119.4	4390.3	200.0000	213.1556	pg	7	15	
Endosulfan sulfate	A	9970.7	10237	40.00000	41.06880	pg	3	15	rsd ***
Endrin ketone	A	11378	13004	40.00000	45.71607	pg	14	15	
TCMX	A	11206	12269	40.00000	43.79588	pg	9	15	
Decachlorobiphenyl	A	6860.7	6719.8	40.00000	39.17832	pg	-2	15	
alpha-BHC	B	18618	19876	20.00000	21.35195	pg	7	15	
gamma-BHC	B	16853	17763	20.00000	21.07888	pg	5	15	
beta-BHC	B	7539.0	7776.7	20.00000	20.63037	pg	3	15	
delta-BHC	B	17681	17925	20.00000	20.27628	pg	1	15	
Heptachlor	B	11573	11796	20.00000	20.38615	pg	2	15	
Aldrin	B	15576	16295	20.00000	20.92327	pg	5	15	
Heptachlor epoxide	B	14304	14671	20.00000	20.51398	pg	3	15	
gamma-Chlordane	B	14552	15023	20.00000	20.64832	pg	3	15	
alpha-Chlordane	B	13966	14246	20.00000	20.40218	pg	2	15	
4,4'-DDE	B	13346	14185	40.00000	42.51327	pg	6	15	
Endosulfan I	B	13152	13389	20.00000	20.36081	pg	2	15	
Dieldrin	B	13833	14371	40.00000	41.55560	pg	4	15	
Endrin	B	10399	8974.9	40.00000	34.52379	pg	-14	15	
4,4'-DDD	B	10577	11148	40.00000	42.16102	pg	5	15	
Endosulfan II	B	11891	12077	40.00000	40.62575	pg	2	15	
4,4'-DDT	B	9610.9	8560.2	40.00000	35.62715	pg	-11	15	
Endrin aldehyde	B	9868.4	9605.7	40.00000	38.93516	pg	-3	15	rsd ***
Methoxychlor	B	3926.5	3710.8	200.0000	189.0130	pg	-5	15	
Endosulfan sulfate	B	11029	10623	40.00000	38.52774	pg	-4	15	rsd ***
Endrin ketone	B	11582	11896	40.00000	41.08457	pg	3	15	rsd ***
TCMX	B	12101	12662	40.00000	41.85413	pg	5	15	
Decachlorobiphenyl	B	6429.3	5704.5	40.00000	35.49098	pg	-11	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				5	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1434,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 9/1/04 11:28:07 AM
Data Acquisition Time : 9/1/04 5:37:53 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\244a035p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.322	490756.37	43.7959	1.000	1	43.80
alpha-BHC	9.965	385783.50	22.1149	1.000	1	22.11
gamma-BHC	10.864	347335.73	22.0884	1.000	1	22.09
beta-BHC	11.120	148816.00	21.9979	1.000	1	22.00
delta-BHC	11.613	352440.70	21.4174	1.000	1	21.42
Heptachlor	12.173	291480.48	20.8052	1.000	1	20.81
Aldrin	12.984	317153.97	22.1863	1.000	1	22.19
Heptachlor epoxide	14.585	291082.53	22.1685	1.000	1	22.17
gamma-Chlordane	14.904	294266.00	21.9687	1.000	1	21.97
alpha-Chlordane	15.245	281976.00	22.1761	1.000	1	22.18
4,4'-DDE	15.437	572924.00	46.9655	1.000	1	46.97
Endosulfan I	15.597	265625.50	21.9828	1.000	1	21.98
Dieldrin	16.202	587586.30	45.9915	1.000	1	45.99
Endrin	16.785	394021.00	37.3296	1.000	1	37.33
4,4'-DDD	16.947	461446.00	47.3382	1.000	1	47.34
Endosulfan II	17.353	487345.00	44.1575	1.000	1	44.16
4,4'-DDT	17.636	389506.00	39.1616	1.000	1	39.16
Endrin aldehyde	18.402	389113.84	41.6894	1.000	1	41.69
Methoxychlor	18.834	878063.08	213.1556	1.000	1	213.16
Endosulfan sulfate	19.487	409486.69	41.0688	1.000	1	41.07
Endrin ketone	20.166	520170.19	45.7161	1.000	1	45.72
Decachlorobiphenyl	22.028	268791.77	39.1783	1.000	1	39.18
		8825170.66	904.4541			904.45

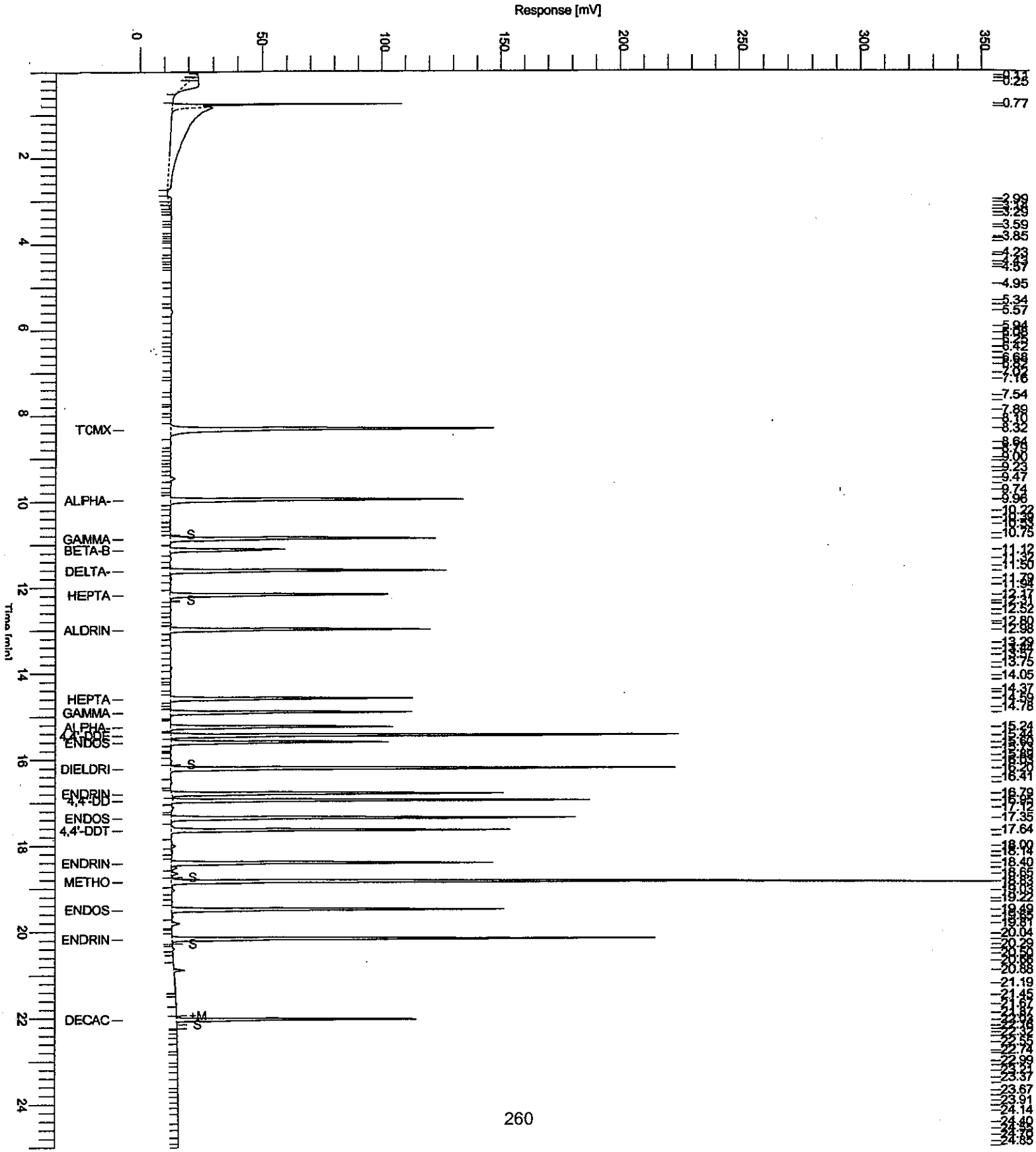
GL 9/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\244a035p.TX0

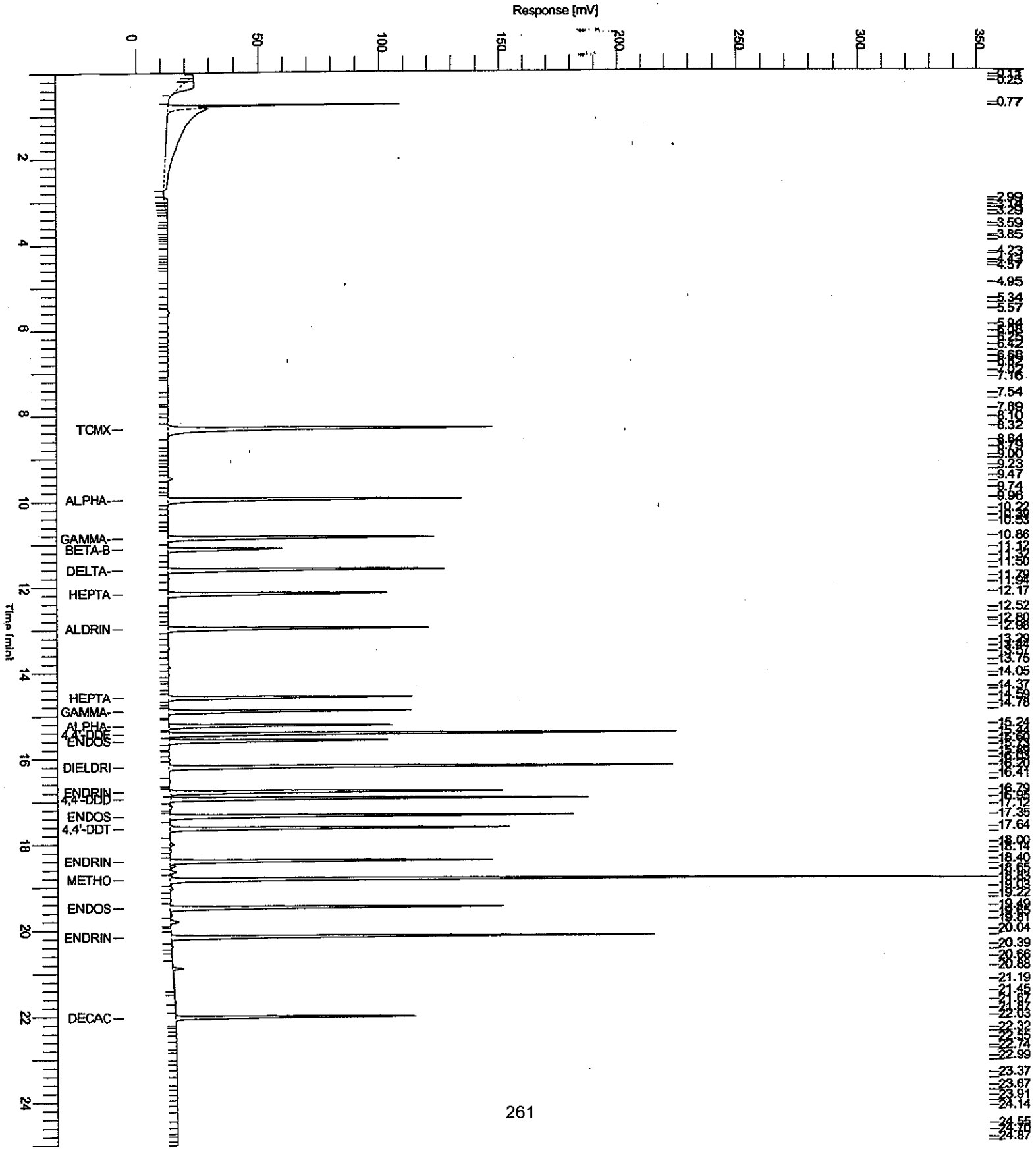
GC23 Rtx-CLPesticides

ample Name : ccv,04ws1434,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHa\244a035.raw
ate : 9/1/04 11:28:13 AM
ethod :
Time of Injection: 9/1/04 5:37:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -6.82 mV High Point : 354.66 mV
lot Offset: -6.82 mV Plot Scale: 361.5 mV



GC23 Rtx-CLPesticides

ample Name : cv,04ws1434,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHa\244a035.raw
ate : 9/1/04 10:24:13 AM
lethod : gc23ins Time of Injection: 9/1/04 5:37:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -5.92 mV High Point : 354.66 mV
cale Factor: 1.0 Plot Offset: -5.92 mV Plot Scale: 360.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1434,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 9/1/04 11:21:33 AM
Data Acquisition Time : 9/1/04 5:37:53 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\244b035p.rst
Sequence File : G:\gc23\Files\244.seq

PEST GC23 CHANNEL B METH. 8081

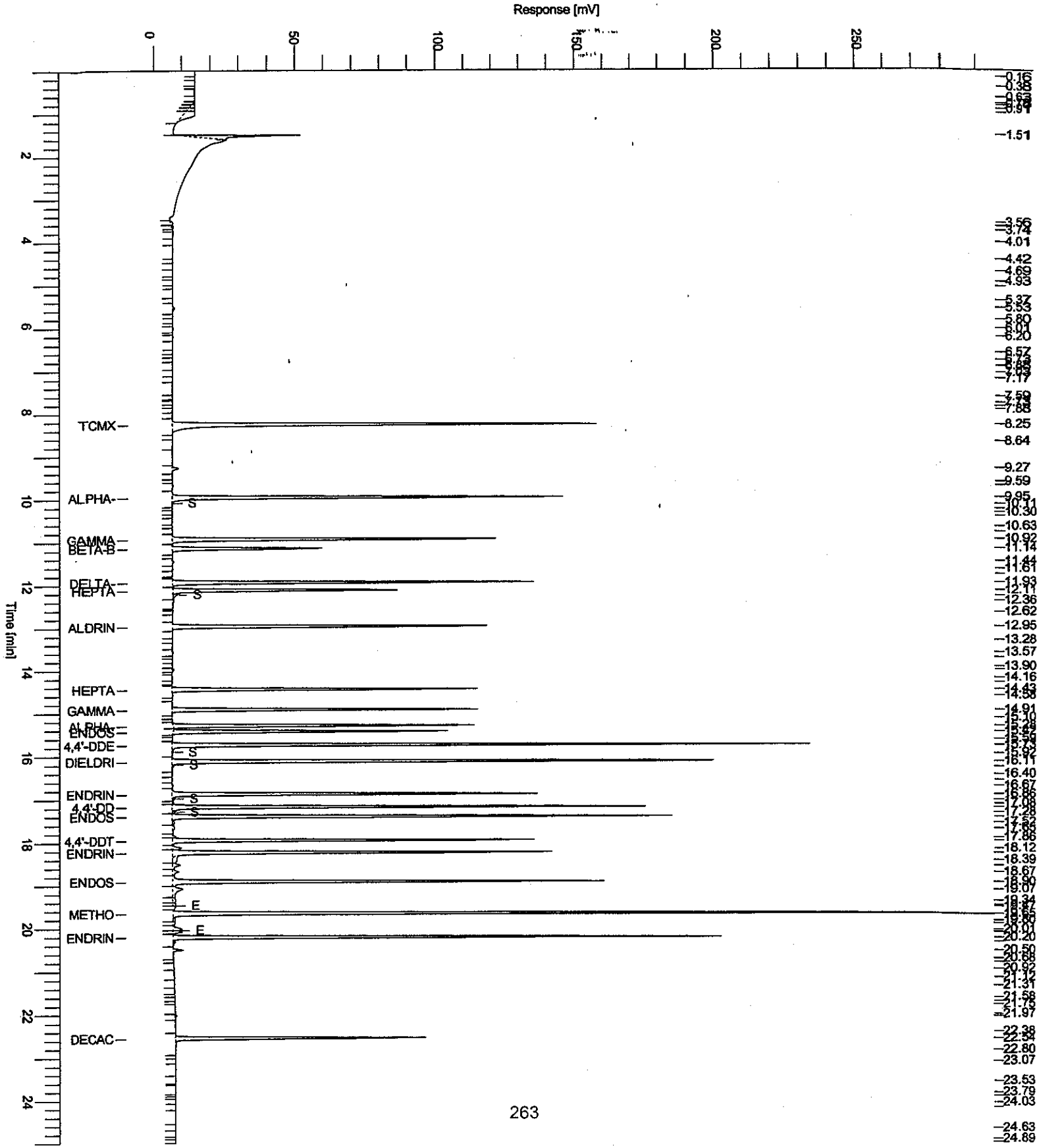
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.246	506468.00	41.8541	1.000	1	41.85
alpha-BHC	9.951	397529.00	21.3519	1.000	1	21.35
gamma-BHC	10.923	355250.17	21.0789	1.000	1	21.08
beta-BHC	11.137	155533.00	20.6304	1.000	1	20.63
delta-BHC	11.931	358498.00	20.2763	1.000	1	20.28
Heptachlor	12.113	235926.54	20.3861	1.000	1	20.39
Aldrin	12.955	325901.00	20.9233	1.000	1	20.92
Heptachlor epoxide	14.435	293423.00	20.5140	1.000	1	20.51
gamma-Chlordane	14.913	300469.00	20.6483	1.000	1	20.65
alpha-Chlordane	15.285	284927.00	20.4022	1.000	1	20.40
Endosulfan I	15.419	267780.00	20.3608	1.000	1	20.36
4,4'-DDE	15.732	567400.88	42.5133	1.000	1	42.51
Dieldrin	16.106	574828.62	41.5556	1.000	1	41.56
Endrin	16.865	358997.08	34.5238	1.000	1	34.52
4,4'-DDD	17.164	445916.32	42.1610	1.000	1	42.16
Endosulfan II	17.383	483089.70	40.6257	1.000	1	40.63
4,4'-DDT	17.936	342409.79	35.6271	1.000	1	35.63
Endrin aldehyde	18.219	384227.22	38.9352	1.000	1	38.94
Endosulfan sulfate	18.899	424932.17	38.5277	1.000	1	38.53
Methoxychlor	19.648	742164.40	189.0130	1.000	1	189.01
Endrin ketone	20.200	475833.98	41.0846	1.000	1	41.08
Decachlorobiphenyl	22.536	228181.93	35.4910	1.000	1	35.49
		8509686.82	828.4843			828.48

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\244b035p.TX0

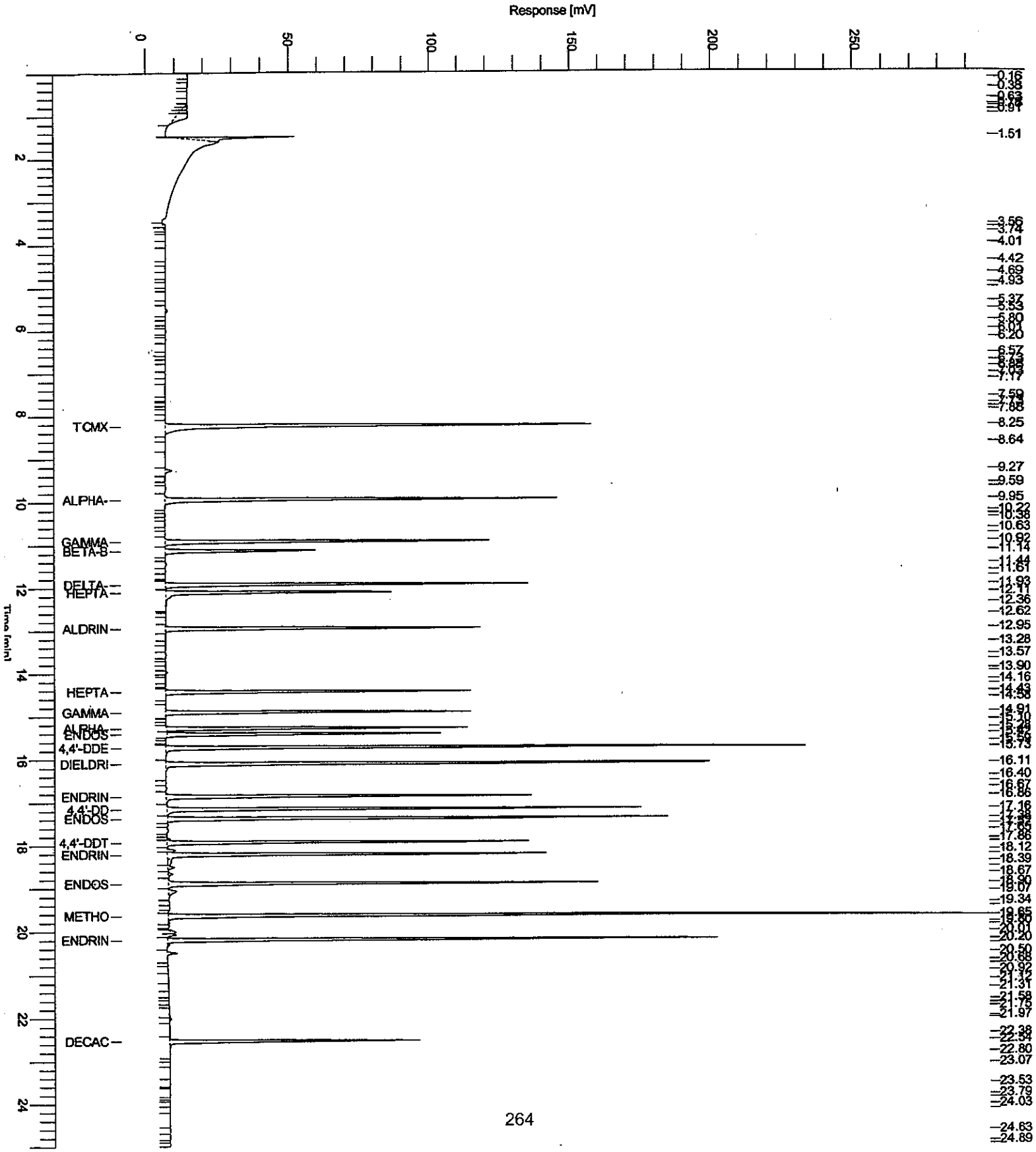
GC23 Rtx-CLPesticides2

Sample Name : ccv,04ws1434,pest_4 Sample #: 20/40 ug/L Page 1 of 1
FileName : G:\gc23\CHb\244b035.raw
Date : 9/1/04 11:21:38 AM
Method :
Time of Injection: 9/1/04 5:37:53 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -9.54 mV High Point : 297.76 mV
Plot Offset: -9.54 mV Plot Scale: 307.3 mV



GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1434,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHb\244b035
ate : 9/1/04 10:24:30 AM
lethod : gc23ins Time of Injection: 9/1/04 5:37:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.77 mV High Point : 297.76 mV
cale Factor: 1.0 Plot Offset: -8.77 mV Plot Scale: 306.5 mV



Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 94233
Date: 09/01/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174320-001	15.7365	22.1835	22.1152	99	1
174320-002	11.0019	18.4589	16.9899	80	20
174320-003	10.9923	18.8447	18.2579	93	7
174320-004	11.1530	18.4654	18.2985	98	2
174320-005	15.5536	22.5951	22.3934	97	3
174320-006	11.0824	18.9913	18.9340	99	1
174354-001	15.5452	22.7000	21.7064	86	14
QC263193	11.1624	18.5824	18.4993	99	1
of 174320-001			RPD:	0.1%	5.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 94233
Date Started: 31-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
174320-001		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-002		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-003		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-004		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-005		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-006		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174354-001		Tan Phung Associat	Soil	MOISTURE	01-SEP-2004
QC263193	SDUP of 174320-001		Soil	MOISTURE	

8/31/04

#94233

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	B119	11.0467	—	11.0470	
174320-1	A	10	15.7265	22.1835	22.1152	
DUP 1		3	11.1624	18.5824	18.4993	
2		B113	11.0019	18.4589	16.9899	
3		2	10.9923	18.8447	18.2579	
4		B106	11.1530	18.4654	18.2985	
5		18X	15.5536	22.5951	~~22.3532~~ 22.3934	
6		61	11.0420	18.9913	18.9348	
174354-1	A	32	15.5452	22.7000	21.7064	

OVEN TEMP. 105°C
TIME IN: 5:30 P.M.
TIME OUT: 10:20 A.M. ON: 9/1/04

Continued on Page

Read and Understood By

R. Manning 8/31/04 Signed Date

9/01/04 Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 174320
Semivolatile Organics by GC/MS

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX119[0.5]	174320-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/10/04
Operations Manager

Signature: _____ Date: 9/9/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS (EPA 8270C)

Laboratory number:	174320
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	08/30/04
Samples Received:	08/30/04

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 08/30/04. The sample was received cold and intact.

Semivolatile Organics by GC/MS (EPA 8270C):
Low response was observed for 4-nitroaniline in the ICV analyzed 08/30/04 19:42; this analyte was not detected in the associated samples.

No other analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

174320

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrid Rennie
Samplers: Mike Cinbarbaro
Recorder (Signature Required): [signature]

Turnaround Time: 48hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	Metals	SVOCs	Silica gel clean-up	Hold	Remarks
1 BB3EX117[0.5]	8/30/04	1148		X						X				X				
2 BB3EX118[0.5]		1154		X						X		X	X	X				MS\MSD
3 BB3EX119[0.5]		1200		X						X					X			
4 BB3EX120[0.5]		1205		X						X		X	X	X				
5 DUP083004A		1205		X						X		X	X	X				
6 BB3EX121[0.5]	8/30/04	1210		X						X		X	X	X				MS\MSD

sand
culma
sand
sand
sand
sand

SAMPLE GROUND LABELED "BB3" LEVEL #3 DATA PACKAGE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/30/04	1507	Tony Rojas	8/30/04	1507
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 002239

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174320 Date Received: 8/30/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX119[0.5]	Batch#:	94212
Lab ID:	174320-003	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/31/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 7%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	360	24
Phenol	ND	360	30
bis(2-Chloroethyl)ether	ND	360	26
2-Chlorophenol	ND	360	24
1,3-Dichlorobenzene	ND	360	26
1,4-Dichlorobenzene	ND	360	28
Benzyl alcohol	ND	360	19
1,2-Dichlorobenzene	ND	360	27
2-Methylphenol	ND	360	27
bis(2-Chloroisopropyl) ether	ND	360	23
4-Methylphenol	ND	360	27
N-Nitroso-di-n-propylamine	ND	360	22
Hexachloroethane	ND	360	26
Nitrobenzene	ND	360	22
Isophorone	ND	360	19
2-Nitrophenol	ND	720	28
2,4-Dimethylphenol	ND	360	77
Benzoic acid	ND	1,800	220
bis(2-Chloroethoxy)methane	ND	360	24
2,4-Dichlorophenol	ND	360	27
1,2,4-Trichlorobenzene	ND	360	24
Naphthalene	ND	360	24
4-Chloroaniline	ND	360	39
Hexachlorobutadiene	ND	360	25
4-Chloro-3-methylphenol	ND	360	38
2-Methylnaphthalene	ND	360	26
Hexachlorocyclopentadiene	ND	1,800	120
2,4,6-Trichlorophenol	ND	360	31
2,4,5-Trichlorophenol	ND	360	35
2-Chloronaphthalene	ND	360	22
2-Nitroaniline	ND	720	9.5
Dimethylphthalate	ND	360	28
Acenaphthylene	ND	360	15
2,6-Dinitrotoluene	ND	360	34
3-Nitroaniline	ND	720	17
Acenaphthene	ND	720	15
2,4-Dinitrophenol	ND	1,800	220
4-Nitrophenol	ND	720	39
Dibenzofuran	ND	360	26
2,4-Dinitrotoluene	ND	360	23
Diethylphthalate	ND	360	29
Fluorene	ND	360	16
4-Chlorophenyl-phenylether	ND	360	27
4-Nitroaniline	ND	720	32
4,6-Dinitro-2-methylphenol	ND	1,800	250
N-Nitrosodiphenylamine	ND	360	37
Azobenzene	ND	360	31
4-Bromophenyl-phenylether	ND	360	27
Hexachlorobenzene	ND	360	28
Pentachlorophenol	ND	720	51
Phenanthrene	ND	360	14

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX119[0.5]	Batch#:	94212
Lab ID:	174320-003	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/31/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Anthracene	ND	360	15
Di-n-butylphthalate	ND	360	40
Fluoranthene	ND	360	13
Pyrene	ND	360	12
Butylbenzylphthalate	ND	360	30
3,3'-Dichlorobenzidine	ND	720	53
Benzo(a)anthracene	ND	72	12
Chrysene	ND	360	14
bis(2-Ethylhexyl)phthalate	ND	360	30
Di-n-octylphthalate	ND	360	32
Benzo(b)fluoranthene	ND	72	13
Benzo(k)fluoranthene	ND	72	9.9
Benzo(a)pyrene	ND	72	12
Indeno(1,2,3-cd)pyrene	ND	72	15
Dibenz(a,h)anthracene	ND	72	15
Benzo(g,h,i)perylene	ND	360	15

Surrogate	%REC	Limits
2-Fluorophenol	77	25-121
Phenol-d5	72	24-113
2,4,6-Tribromophenol	61	19-122
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	77	30-115
Terphenyl-d14	69	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC263126	Batch#:	94212
Matrix:	Soil	Prepared:	08/31/04
Units:	ug/Kg	Analyzed:	08/31/04
Basis:	as received		

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	22
Phenol	ND	340	28
bis(2-Chloroethyl)ether	ND	340	24
2-Chlorophenol	ND	340	22
1,3-Dichlorobenzene	ND	340	24
1,4-Dichlorobenzene	ND	340	26
Benzyl alcohol	ND	340	18
1,2-Dichlorobenzene	ND	340	25
2-Methylphenol	ND	340	26
bis(2-Chloroisopropyl) ether	ND	340	21
4-Methylphenol	ND	340	25
N-Nitroso-di-n-propylamine	ND	340	20
Hexachloroethane	ND	340	25
Nitrobenzene	ND	340	21
Isophorone	ND	340	18
2-Nitrophenol	ND	670	26
2,4-Dimethylphenol	ND	340	73
Benzoic acid	ND	1,700	200
bis(2-Chloroethoxy)methane	ND	340	22
2,4-Dichlorophenol	ND	340	26
1,2,4-Trichlorobenzene	ND	340	22
Naphthalene	ND	340	23
4-Chloroaniline	ND	340	36
Hexachlorobutadiene	ND	340	24
4-Chloro-3-methylphenol	ND	340	35
2-Methylnaphthalene	ND	340	25
Hexachlorocyclopentadiene	ND	1,700	110
2,4,6-Trichlorophenol	ND	340	29
2,4,5-Trichlorophenol	ND	340	33
2-Chloronaphthalene	ND	340	20
2-Nitroaniline	ND	670	8.9
Dimethylphthalate	ND	340	26
Acenaphthylene	ND	340	14
2,6-Dinitrotoluene	ND	340	33
3-Nitroaniline	ND	670	16
Acenaphthene	ND	670	14
2,4-Dinitrophenol	ND	1,700	210
4-Nitrophenol	ND	670	37
Dibenzofuran	ND	340	24
2,4-Dinitrotoluene	ND	340	22
Diethylphthalate	ND	340	28
Fluorene	ND	340	15
4-Chlorophenyl-phenylether	ND	340	25
4-Nitroaniline	ND	670	30
4,6-Dinitro-2-methylphenol	ND	1,700	230
N-Nitrosodiphenylamine	ND	340	34
Azobenzene	ND	340	29
4-Bromophenyl-phenylether	ND	340	26
Hexachlorobenzene	ND	340	26
Pentachlorophenol	ND	670	48
Phenanthrene	ND	340	13
Anthracene	ND	340	14
Di-n-butylphthalate	ND	340	37

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC263126	Batch#:	94212
Matrix:	Soil	Prepared:	08/31/04
Units:	ug/Kg	Analyzed:	08/31/04
Basis:	as received		

Analyte	Result	RL	MDL
Fluoranthene	ND	340	12
Pyrene	ND	340	11
Butylbenzylphthalate	ND	340	28
3,3'-Dichlorobenzidine	ND	670	50
Benzo(a)anthracene	ND	67	11
Chrysene	ND	340	13
bis(2-Ethylhexyl)phthalate	ND	340	28
Di-n-octylphthalate	ND	340	30
Benzo(b)fluoranthene	ND	67	12
Benzo(k)fluoranthene	ND	67	9.3
Benzo(a)pyrene	ND	67	11
Indeno(1,2,3-cd)pyrene	ND	67	14
Dibenz(a,h)anthracene	ND	67	14
Benzo(g,h,i)perylene	ND	340	14

Surrogate	%REC	Limits
2-Fluorophenol	74	25-121
Phenol-d5	71	24-113
2,4,6-Tribromophenol	52	19-122
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	73	30-115
Terphenyl-d14	65	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC263127	Batch#:	94212
Matrix:	Soil	Prepared:	08/31/04
Units:	ug/Kg	Analyzed:	08/31/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,353	2,277	68	40-119
2-Chlorophenol	3,353	2,448	73	39-119
1,4-Dichlorobenzene	1,677	1,120	67	36-111
N-Nitroso-di-n-propylamine	1,677	1,178	70	35-117
1,2,4-Trichlorobenzene	1,677	1,098	65	36-107
4-Chloro-3-methylphenol	3,353	2,418	72	41-122
Acenaphthene	1,677	1,157	69	36-111
4-Nitrophenol	3,353	2,499	75	45-130
2,4-Dinitrotoluene	1,677	1,119	67	43-114
Pentachlorophenol	3,353	2,117	63	39-119
Pyrene	1,677	1,161	69	35-142

Surrogate	%REC	Limits
2-Fluorophenol	73	25-121
Phenol-d5	68	24-113
2,4,6-Tribromophenol	66	19-122
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	71	30-115
Terphenyl-d14	65	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX119[0.5]	Batch#:	94212
MSS Lab ID:	174320-003	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/31/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Type: MS Moisture: 7%
Lab ID: QC263128

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<30.11	3,614	2,756	76	26-100
2-Chlorophenol	<23.66	3,614	3,122	86	25-102
1,4-Dichlorobenzene	<27.96	1,807	1,332	74	28-104
N-Nitroso-di-n-propylamine	<21.51	1,807	1,036	57	41-126
1,2,4-Trichlorobenzene	<23.66	1,807	1,368	76	38-107
4-Chloro-3-methylphenol	<37.63	3,614	3,066	85	26-103
Acenaphthene	<15.05	1,807	1,438	80	31-137
4-Nitrophenol	<38.71	3,614	2,986	83	11-114
2,4-Dinitrotoluene	<22.58	1,807	1,395	77	28-100
Pentachlorophenol	<50.54	3,614	2,566	71	17-109
Pyrene	<11.83	1,807	1,369	76	35-142

Surrogate	%REC	Limits
2-Fluorophenol	81	25-121
Phenol-d5	78	24-113
2,4,6-Tribromophenol	73	19-122
Nitrobenzene-d5	74	23-120
2-Fluorobiphenyl	82	30-115
Terphenyl-d14	73	18-137

Type: MSD Moisture: 7%
Lab ID: QC263129

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,536	2,437	69	26-100	10	35
2-Chlorophenol	3,536	2,720	77	25-102	12	50
1,4-Dichlorobenzene	1,768	1,210	68	28-104	7	27
N-Nitroso-di-n-propylamine	1,768	866.0	49	41-126	16	38
1,2,4-Trichlorobenzene	1,768	1,198	68	38-107	11	23
4-Chloro-3-methylphenol	3,536	2,649	75	26-103	12	33
Acenaphthene	1,768	1,256	71	31-137	11	19
4-Nitrophenol	3,536	2,680	76	11-114	9	50
2,4-Dinitrotoluene	1,768	1,193	67	28-100	13	47
Pentachlorophenol	3,536	1,961	55	17-109	25	48
Pyrene	1,768	1,210	68	35-142	10	36

Surrogate	%REC	Limits
2-Fluorophenol	72	25-121
Phenol-d5	69	24-113
2,4,6-Tribromophenol	63	19-122
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	71	30-115
Terphenyl-d14	63	18-137

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU01.D

Date : 30-AUG-2004 14:14

Client ID: dftpp tune std

Sample Info: TUN,04WS1200

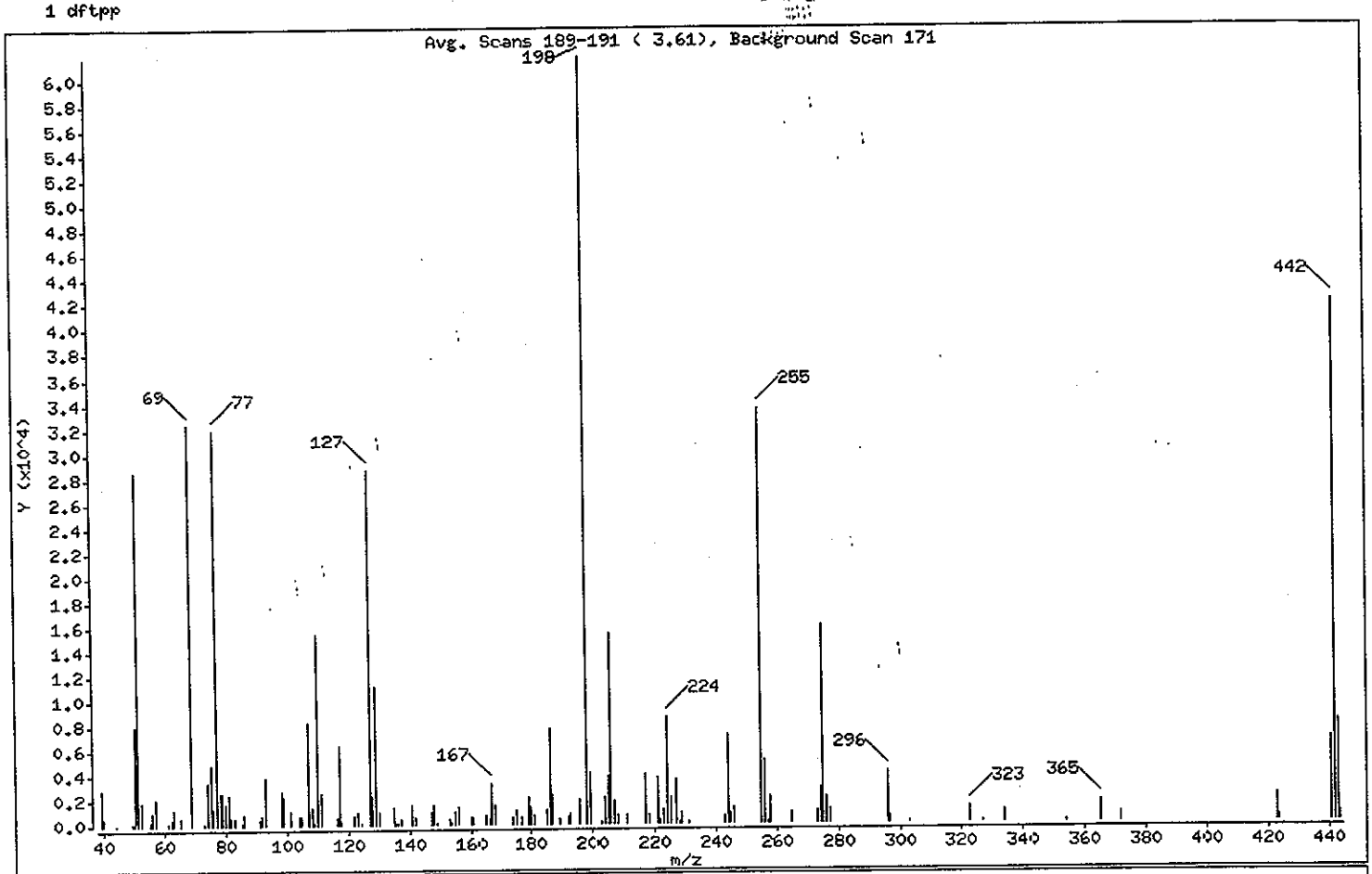
Instrument: MSBNA03.i

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.09
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	46.37
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.65
275	10.00 - 30.00% of mass 198	25.82
365	Greater than 1.00% of mass 198	2.75
441	Present, but less than mass 443	10.79
442	40.00 - 99.99% of mass 198	67.91
443	17.00 - 23.00% of mass 442	13.13 (19.33)

8270 BNA

8/31/04

8/31/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV01.D

Date : 31-AUG-2004 13:13

Client ID: dftpp tune std

Instrument: MSBNA03.i

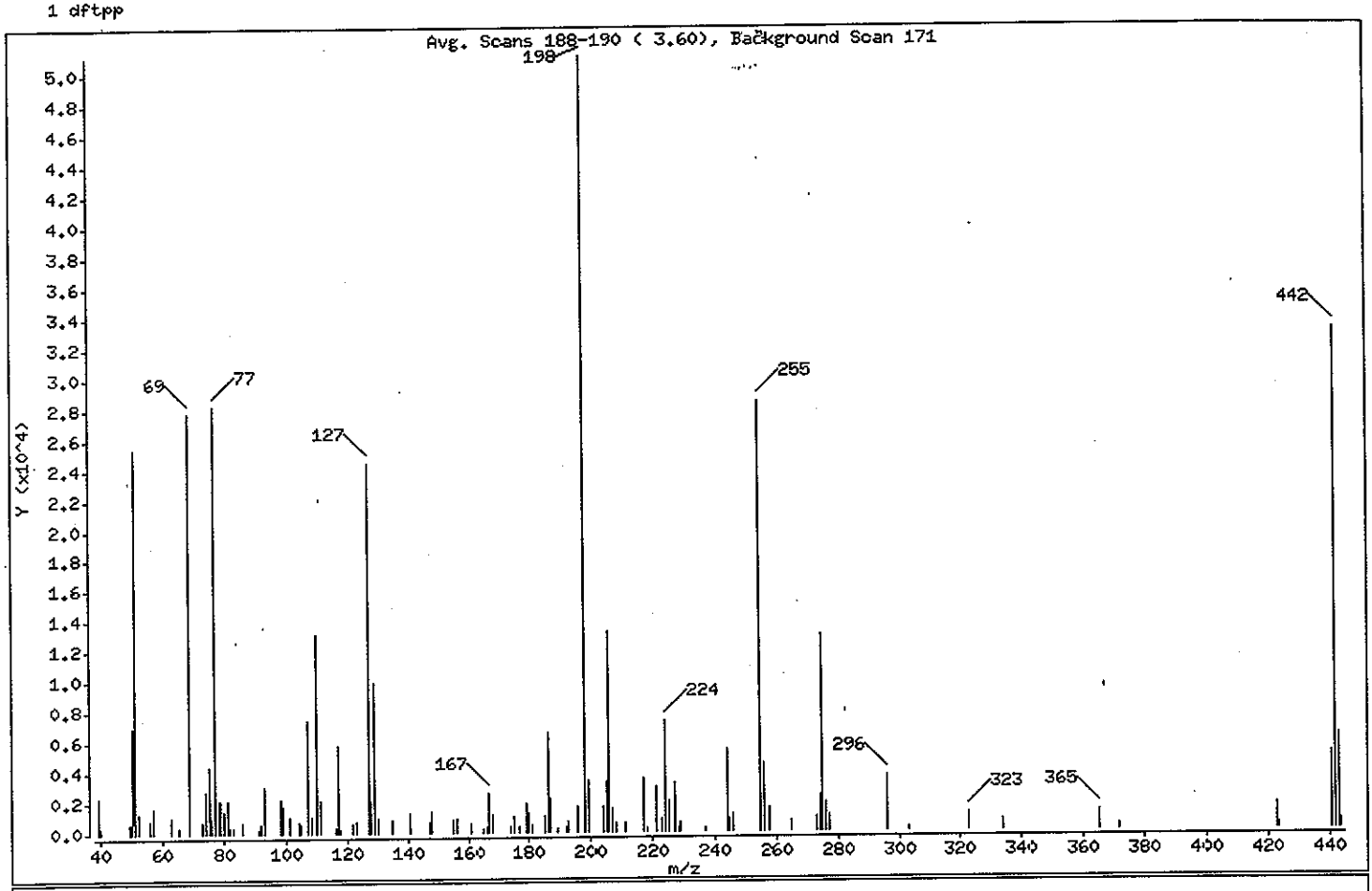
Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.63
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.08
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.77
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.69
275	10.00 - 30.00% of mass 198	25.33
365	Greater than 1.00% of mass 198	2.57
441	Present, but less than mass 443	9.90
442	40.00 - 99.99% of mass 198	64.53
443	17.00 - 23.00% of mass 442	12.25 (18.98)

08/31/04

BSV MS03 8270 Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524350774002 Name: 6PTBNA3 Type: (normal) Date: 30-AUG-2004 15:19 Inj Vol (uL): 1

See grant reports for manual integrations due to splitting + tailing.

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	vhu03	524350774003	2ug/mL	30-AUG-2004 15:19	04WS1376
2	vhu04	524350774004	10ug/mL	30-AUG-2004 15:57	04WS1377
3	vhu05	524350774005	20ug/mL	30-AUG-2004 16:34	04WS1378
4	vhu06	524350774006	50ug/mL	30-AUG-2004 17:11	04WS1379
5	vhu07	524350774007	80ug/mL	30-AUG-2004 17:50	04WS1380
6	vhu08	524350774008	120ug/mL	30-AUG-2004 18:26	04WS1381
7	vhu09	524350774009	160ug/mL	30-AUG-2004 19:05	04WS1382

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.8022m	0.7937	0.7784	0.7757	0.7715	0.7574	AVRG	R		1.282390		ng	0.7798	2	0.0500	0.99	15	
Pyridine		1.4207	1.4631	1.4700	1.4838	1.4866	1.5106	AVRG	R		0.679135		ng	1.4725	2	0.0500	0.99	15	
Phenol		1.9889	2.0209	1.9956	1.9831	1.8730	1.9581	AVRG	R		0.507633		ng	1.9699	3	0.0500	0.99	15	
Aniline		0.8390	0.8692	0.7766	0.6582m	0.5860m	0.3908m	AVRG	R		1.456369		ng	0.6866	26	0.0500	0.99	15	rsd NO
bis(2-Chloroethyl)ether		1.1098	1.0896	1.0616	1.0850	1.0731	1.1277	AVRG	R		0.916457		ng	1.0912	2	0.0500	0.99	15	
2-Chlorophenol		1.2815	1.2831	1.3002	1.3275	1.3403	1.3700	AVRG	R		0.759242		ng	1.3171	3	0.0500	0.99	15	
1,3-Dichlorobenzene		1.5197	1.5066	1.5340	1.5720	1.5880	1.6205	AVRG	R		0.642345		ng	1.5568	3	0.0500	0.99	15	
1,4-Dichlorobenzene		1.6118	1.6339	1.6670	1.6817	1.6236	1.5259	AVRG	R		0.615779		ng	1.6240	3	0.0500	0.99	15	
Benzyl alcohol		0.9157	0.9499	0.9622	0.9816	1.0082	0.9939	AVRG	R		1.032430		ng	0.9686	3	0.0500	0.99	15	
1,2-Dichlorobenzene		1.4697	1.4444	1.4825	1.5034	1.5672	1.4548	AVRG	R		0.672498		ng	1.4870	3	0.0500	0.99	15	
2-Methylphenol		1.1106	1.1246	1.1276	1.1492	1.0918	1.0437	AVRG	R		0.902592		ng	1.1079	3	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		2.1839	2.0735	1.9810	1.8952	1.8166	1.7324	AVRG	R		0.513583		ng	1.9471	9	0.0500	0.99	15	
4-Methylphenol		1.6682	1.6896	1.7124	1.6860	1.6802	1.7153m	AVRG	R		0.591035		ng	1.6919	1	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.9450	0.9528	0.9502	0.9446	0.9215	0.7625	AVRG	R		1.095571		ng	0.9128	8	0.0500	0.99	15	
Hexachloroethane		0.6017	0.5931	0.6048	0.6070	0.5833	0.5198	AVRG	R		1.709507		ng	0.5850	6	0.0500	0.99	15	
Nitrobenzene		0.4923	0.4853	0.4886	0.4924	0.5028	0.4616	AVRG	R		2.052694		ng	0.4872	3	0.0500	0.99	15	
Isophorone		0.8126	0.8077	0.8500	0.8523	0.8880	0.8879m	AVRG	R		1.176796		ng	0.8498	4	0.0500	0.99	15	
2-Nitrophenol		0.1921	0.2007	0.2232	0.2254	0.2585	0.2695	AVRG	R		4.381100		ng	0.2283	13	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

ICAL OK except Aniline + Benzidine fail %RSD - NO
- Benzidine fails min-RF - NO
BSV: Aniline ↓; 4-Nitroaniline ↓; Carbazole ↓;
Benzidine ↓ fail ID
- 4-Chloroaniline ↓ fails warning limits

8/31/17

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524350774002 Name: 6PTBNA3 Type: (normal) Date: 30-AUG-2004 15:19 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2604	0.2722	0.2687	0.2628	0.3111	0.3106	AVRG	R		3.559253		ng	0.2810	8	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4740	0.4771	0.5029	0.5221	0.5571	0.5252	AVRG	R		1.961813		ng	0.5097	6	0.0500	0.99	15	
Benzoic acid		0.0958	0.1275	0.1709	0.2021m	0.2128m	0.2255m	QUAD	R	6.866387	4.931780	-0.01928	ng	0.1724	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3183	0.3282	0.3504	0.3764	0.3919	0.3636	AVRG	R		2.818459		ng	0.3548	8	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3764	0.3810	0.4131	0.4263	0.4463	0.4203	AVRG	R		2.435675		ng	0.4106	7	0.0500	0.99	15	
Naphthalene	1.0882	1.0958	1.1110	1.1756	1.2092	1.1521	1.1041	AVRG	R		0.882063		ng	1.1337	4	0.0500	0.99	15	
4-Chloroaniline		0.3877	0.4044	0.4548	0.4505	0.4874	0.4819	AVRG	R		2.249984		ng	0.4444	9	0.0500	0.99	15	
Hexachlorobutadiene		0.2400	0.2389	0.2583	0.2594	0.2483	0.2253	AVRG	R		4.080771		ng	0.2451	5	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.3406	0.3479	0.3722	0.3986	0.3954	0.3782	AVRG	R		2.687107		ng	0.3721	6	0.0500	0.99	15	
2-Methylnaphthalene	0.7099	0.7563	0.7607	0.8274	0.8725	0.8411	0.7424	AVRG	R		1.270330		ng	0.7872	8	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2314	0.2664	0.3325	0.3482	0.3523	0.3240	LINR	R	2.121670	2.921986		ng	0.3091	0.995	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3991	0.4099	0.4397	0.4617	0.4408	0.4413	AVRG	R		2.314395		ng	0.4321	5	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.4075	0.4317	0.4642	0.4506	0.4524	0.4399	AVRG	R		2.267287		ng	0.4411	5	0.0500	0.99	15	
2-Chloronaphthalene		1.1364	1.1630	1.1805	1.2036	1.1056	1.0454	AVRG	R		0.877904		ng	1.1391	5	0.0500	0.99	15	
2-Nitroaniline		0.4199	0.4365	0.4174	0.4068	0.4117	0.3953	AVRG	R		2.411952		ng	0.4146	3	0.0500	0.99	15	
Dimethylphthalate		1.3341	1.3447	1.3737	1.3788	1.3971	1.3652	AVRG	R		0.732280		ng	1.3656	2	0.0500	0.99	15	
2,6-Dinitrotoluene		0.3315	0.3490	0.3569	0.3446	0.3515	0.3307	AVRG	R		2.906746		ng	0.3440	3	0.0500	0.99	15	
Acenaphthylene	1.7819	1.8864	1.9431	1.9336	1.8769	1.7291	1.6245	AVRG	R		0.547925		ng	1.8251	6	0.0500	0.99	15	
3-Nitroaniline		0.2705	0.2834	0.3210	0.3438	0.3808	0.3478	AVRG	R		3.081278		ng	0.3245	13	0.0500	0.99	15	
Acenaphthene	1.1457	1.1664	1.1806	1.1454	1.1967	1.1269	1.0879	AVRG	R		0.869609		ng	1.1499	3	0.0500	0.99	15	
2,4-Dinitrophenol		0.1042	0.1486	0.1911	0.2013	0.2175	0.2313	QUAD	R	5.053757	4.957854	-0.02086	ng	0.1823	1.000	0.0500	0.99	15	
4-Nitrophenol		0.1555	0.1621	0.1659	0.1779	0.1744	0.1566	AVRG	R		6.045294		ng	0.1654	6	0.0500	0.99	15	
Dibenzofuran		1.7625	1.7404	1.8515	1.6653	1.6412	1.3776	AVRG	R		0.597706		ng	1.6731	10	0.0500	0.99	15	
2,4-Dinitrotoluene		0.4039	0.4226	0.4337	0.4278	0.4229	0.4424	AVRG	R		2.349949		ng	0.4255	3	0.0500	0.99	15	
Diethylphthalate		1.2836	1.2861	1.2852	1.2780	1.3628	1.1450	AVRG	R		0.785265		ng	1.2735	6	0.0500	0.99	15	
Fluorene	1.3783	1.4666	1.4760	1.5119	1.3121	1.1232	1.0220m	AVRG	R		0.753485		ng	1.3272	14	0.0500	0.99	15	
4-Chlorophenyl-phenylether	0.7075	0.7779	0.7841	0.7972	0.6355	0.5415		AVRG	R		1.413860		ng	0.7073	14	0.0500	0.99	15	
4-Nitroaniline		0.2236	0.2356	0.2427	0.2599	0.2934	0.3008	AVRG	R		3.855739		ng	0.2594	12	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1166	0.1394	0.1677	0.1724	0.1561		AVRG	R		6.646658		ng	0.1505	15	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.5264	0.5121	0.5352	0.5400	0.5617	0.4665	AVRG	R		1.909696		ng	0.5236	6	0.0500	0.99	15	
Azobenzene		0.8951	0.8738	0.9311	0.8760	0.7751	0.7426	AVRG	R		1.177909		ng	0.8490	9	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524350774002 Name: 6PTBNA3 Type: (normal) Date: 30-AUG-2004 15:19 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2427	0.2455	0.2712	0.2848	0.2614	0.2470	AVRG	R		3.864398		ng	0.2588	6	0.0500	0.99	15	
Hexachlorobenzene		0.2602	0.2622	0.3087	0.2927	0.2911	0.2708	AVRG	R		3.559405		ng	0.2809	7	0.0500	0.99	15	
Pentachlorophenol		0.0813	0.1166	0.1498	0.1800	0.1795	0.1942	QUAD	R	6.382271	5.691738	-0.02368	ng	0.1502	0.999	0.0500	0.99	15	
Phenanthrene	1.0766	1.1242	1.1048	1.1692	1.1172	1.0870	1.0600	AVRG	R		0.904505		ng	1.1056	3	0.0500	0.99	15	
Anthracene	1.0806	1.1157	1.1044	1.1672	1.2341	1.1702	1.0440	AVRG	R		0.884257		ng	1.1309	6	0.0500	0.99	15	
Carbazole		0.6765	0.6975	0.7029	0.8467	0.9037	0.9394	AVRG	R		1.258706		ng	0.7945	15	0.0500	0.99	15	
Di-n-butylphthalate		1.2556	1.2639	1.2921	1.2863	1.1985	1.1521	AVRG	R		0.805536		ng	1.2414	4	0.0500	0.99	15	
Fluoranthene	1.1894	1.3158	1.3101	1.3691	1.2889	1.2657	1.1686	AVRG	R		0.785849		ng	1.2725	6	0.0500	0.99	15	
Benzidine		0.0039m	0.0375	0.0186	0.0392	0.0605	0.0806	AVRG	R		24.96836		ng	0.0401	69	0.0500	0.99	15	irf rsd ***
Pyrene	1.2540	1.3203	1.2809	1.3212	1.3179	1.4491	1.6730	AVRG	R		0.727930		ng	1.3738	11	0.0500	0.99	15	
Butylbenzylphthalate		0.5276	0.5448	0.5838	0.5856	0.6943		AVRG	R		1.702968		ng	0.5872	11	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3511	0.3696	0.4499	0.4209	0.4072	0.4234	AVRG	R		2.477217		ng	0.4037	9	0.0500	0.99	15	
Benzo(a)anthracene	1.2717	1.3044	1.2949	1.3489	1.2699	1.2889m	1.4120	AVRG	R		0.761648		ng	1.3129	4	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.8079	0.8197	0.8094	0.7830	0.7869	0.8452	AVRG	R		1.236605		ng	0.8087	3	0.0500	0.99	15	
Chrysene	1.2460	1.2473	1.2318	1.2714	1.3279	1.4156	1.5115	AVRG	R		0.756641		ng	1.3216	8	0.0500	0.99	15	
Di-n-octylphthalate		1.4278	1.5228	1.7116	1.7644	1.8248	1.7938	AVRG	R		0.597303		ng	1.6742	10	0.0500	0.99	15	
Benzo(b)fluoranthene	1.3535	1.5967	1.4614	2.0555	2.2917	2.7931		QUAD	R	2.358740	0.517931	-0.00050	ng	1.9253	0.999	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3532	1.4477	1.5926	1.5198	1.5541	1.1267	1.2885m	AVRG	R		0.708312		ng	1.4118	12	0.0500	0.99	15	
Benzo(a)pyrene	1.0673	1.2214	1.2892	1.4173	1.5139	1.6458		AVRG	R		0.735748		ng	1.3592	15	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.2262	1.4641	1.5256	1.7136	1.7755	1.8755	1.8836	AVRG	R		0.610596		ng	1.6377	15	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9894	1.1909	1.2671	1.4387	1.5002	1.5777	1.5903	QUAD	R	1.967712	0.673616	-0.00022	ng	1.3649	1.000	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.0435	1.2200	1.2615	1.3420	1.3272	1.3581	1.3182	AVRG	R		0.789136		ng	1.2672	9	0.0500	0.99	15	
2-Fluorophenol		1.2311	1.2278	1.2357	1.2521	1.2709	1.2912	AVRG	R		0.799057		ng	1.2515	2	0.0500	0.99	15	
Phenol-d5		1.7210	1.7395	1.7553	1.7714	1.7629	1.7384	AVRG	R		0.572058		ng	1.7481	1	0.0500	0.99	15	
Nitrobenzene-d5		0.4810	0.4755	0.4924	0.4955	0.5105	0.5000	AVRG	R		2.030494		ng	0.4925	3	0.0500	0.99	15	
2-Fluorobiphenyl		1.3676	1.4229	1.4477	1.3188	1.3456	1.2564	AVRG	R		0.735387		ng	1.3598	5	0.0500	0.99	15	
2,4,6-Tribromophenol		0.1908	0.2091	0.2500	0.2814	0.2937	0.2779	LINR	R	4.711985	3.407949		ng	0.2505	0.997	0.0500	0.99	15	
Terphenyl-d14		0.9792	0.9810	0.9981	1.0774	1.1072	1.2637	AVRG	R		0.936545		ng	1.0678	10	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524350774010
Calnum : 524350774002
Standards: 04WS1163

Run Name : 80ug/mL
Filename : vhu10
Caldate : 30-AUG-2004

Injected : 30-AUG-2004 19:42
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	72.91710	ng	-9	30	
Pyridine	80.00000	78.70560	ng	-2	30	
Phenol	80.00000	75.18720	ng	-6	20	
Aniline	80.00000	40.74040	ng	-49	30	m v- ***
bis(2-Chloroethyl)ether	80.00000	72.11390	ng	-10	30	
2-Chlorophenol	80.00000	77.78290	ng	-3	30	
1,3-Dichlorobenzene	80.00000	72.03370	ng	-10	30	
1,4-Dichlorobenzene	80.00000	71.83530	ng	-10	20	
Benzyl alcohol	80.00000	77.77340	ng	-3	30	
1,2-Dichlorobenzene	80.00000	73.58000	ng	-8	30	
2-Methylphenol	80.00000	75.91380	ng	-5	30	
bis(2-Chloroisopropyl) ether	80.00000	67.18710	ng	-16	30	
4-Methylphenol	80.00000	72.61960	ng	-9	30	
N-Nitroso-di-n-propylamine	80.00000	80.10870	ng	0	30	
Hexachloroethane	80.00000	74.85060	ng	-6	30	
Nitrobenzene	80.00000	67.64210	ng	-15	30	
Isophorone	80.00000	69.15160	ng	-14	30	
2-Nitrophenol	80.00000	69.93560	ng	-13	20	
2,4-Dimethylphenol	80.00000	85.09360	ng	6	30	
bis(2-Chloroethoxy)methane	80.00000	67.94470	ng	-15	30	
Benzoic acid	80.00000	81.45990	ng	2	40	m
2,4-Dichlorophenol	80.00000	72.36640	ng	-10	20	
1,2,4-Trichlorobenzene	80.00000	71.57690	ng	-11	30	
Naphthalene	80.00000	73.50980	ng	-8	30	
4-Chloroaniline	80.00000	62.16440	ng	-22	30	!v-
Hexachlorobutadiene	80.00000	68.41390	ng	-14	20	
4-Chloro-3-methylphenol	80.00000	75.80860	ng	-5	20	
2-Methylnaphthalene	80.00000	74.24590	ng	-7	30	
Hexachlorocyclopentadiene	80.00000	77.51690	ng	-3	40	
2,4,6-Trichlorophenol	80.00000	75.17700	ng	-6	20	
2,4,5-Trichlorophenol	80.00000	74.80350	ng	-6	30	
2-Chloronaphthalene	80.00000	75.95550	ng	-5	30	
2-Nitroaniline	80.00000	66.77970	ng	-17	30	
Dimethylphthalate	80.00000	69.49220	ng	-13	30	
2,6-Dinitrotoluene	80.00000	72.24600	ng	-10	30	
Acenaphthylene	80.00000	70.55560	ng	-12	30	
3-Nitroaniline	80.00000	64.79070	ng	-19	30	
Acenaphthene	80.00000	70.38230	ng	-12	20	
2,4-Dinitrophenol	80.00000	73.57620	ng	-8	40	
4-Nitrophenol	80.00000	74.23210	ng	-7	40	
Dibenzofuran	80.00000	69.74590	ng	-13	30	
2,4-Dinitrotoluene	80.00000	68.29280	ng	-15	30	
Diethylphthalate	80.00000	72.66280	ng	-9	30	
Fluorene	80.00000	65.96010	ng	-18	30	
4-Chlorophenyl-phenylether	80.00000	58.91240	ng	-26	40	
4-Nitroaniline	80.00000	37.38760	ng	-53	30	v- ***
4,6-Dinitro-2-methylphenol	80.00000	82.86620	ng	4	30	

!=warning -=low bias m=manual integration v=ICV

08/31/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : MSBNA03
eqnum : 524350774010
alnum : 524350774002
tandards: 04WS1163

Run Name : 80ug/mL
Filename : vhu10
Caldate : 30-AUG-2004

Injected : 30-AUG-2004 19:42
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	69.14160	ng	-14	20	
Azobenzene	80.00000	67.24780	ng	-16	30	
4-Bromophenyl-phenylether	80.00000	72.10670	ng	-10	30	
Hexachlorobenzene	80.00000	68.43570	ng	-14	30	
Pentachlorophenol	80.00000	73.00910	ng	-9	20	
Phenanthrene	80.00000	73.05140	ng	-9	30	
Anthracene	80.00000	70.41120	ng	-12	30	
Carbazole	80.00000	40.71050	ng	-49	30	v- ***
Di-n-butylphthalate	80.00000	68.50470	ng	-14	30	
Fluoranthene	80.00000	67.71040	ng	-15	20	
Benzidine	80.00000	10.12960	ng	-87	40	v- ***
Pyrene	80.00000	66.33350	ng	-17	30	
Butylbenzylphthalate	80.00000	71.70690	ng	-10	30	
3,3'-Dichlorobenzidine	80.00000	65.61940	ng	-18	40	
Benzo(a)anthracene	80.00000	72.40720	ng	-9	30	
bis(2-Ethylhexyl)phthalate	80.00000	66.01480	ng	-17	30	
Chrysene	80.00000	69.49790	ng	-13	30	
Di-n-octylphthalate	80.00000	73.21580	ng	-8	20	
Benzo(b)fluoranthene	80.00000	77.28700	ng	-3	30	
Benzo(k)fluoranthene	80.00000	65.08590	ng	-19	30	
Benzo(a)pyrene	80.00000	78.64980	ng	-2	20	
Indeno(1,2,3-cd)pyrene	80.00000	74.28500	ng	-7	30	
Dibenz(a,h)anthracene	80.00000	72.08080	ng	-10	30	
Benzo(g,h,i)perylene	80.00000	69.46920	ng	-13	30	
2-Fluorophenol	80.00000	72.74460	ng	-9	30	
Phenol-d5	80.00000	71.13350	ng	-11	30	
Nitrobenzene-d5	80.00000	70.50550	ng	-12	30	
2-Fluorobiphenyl	80.00000	66.82620	ng	-16	30	
2,4,6-Tribromophenol	80.00000	68.25590	ng	-15	30	
Terphenyl-d14	80.00000	66.18980	ng	-17	30	

ISTD (CCV=vhu02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	259507	303301	16.88	5.60	5.59	-0.01
Naphthalene-d8	942062	1055684	12.06	7.08	7.09	0.02
Acenaphthene-d10	597439	704687	17.95	9.23	9.23	0.00
Phenanthrene-d10	1088251	1259353	15.72	11.03	11.04	0.01
Chrysene-d12	1116120	1162841	4.19	14.32	14.33	0.01
Perylene-d12	920724	975814	5.98	16.78	16.79	0.01

8/31/04

!=warning -=low bias m=manual integration v=ICV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524352153002
Calnum : 524350774002
Standards: 04WS1380

Run Name :
Filename : vhv02
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 13:31
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.7798	0.7549	80.00000	77.44880	ng	-3	30	0.0500	
Pyridine	1.4725	1.4688	80.00000	79.79860	ng	0	30	0.0500	
Phenol	1.9699	1.8824	80.00000	76.44560	ng	-4	20	0.0500	
Aniline	0.6866	0.4866	80.00000	56.69780	ng	-29	30	0.0500	!c- m r
bis(2-Chloroethyl)ether	1.0912	1.0404	80.00000	76.28000	ng	-5	30	0.0500	
2-Chlorophenol	1.3171	1.3228	80.00000	80.34540	ng	0	30	0.0500	
1,3-Dichlorobenzene	1.5568	1.5684	80.00000	80.59720	ng	1	30	0.0500	
1,4-Dichlorobenzene	1.6240	1.6039	80.00000	79.01000	ng	-1	20	0.0500	
Benzyl alcohol	0.9686	0.9841	80.00000	81.28130	ng	2	30	0.0500	
1,2-Dichlorobenzene	1.4870	1.5103	80.00000	81.25370	ng	2	30	0.0500	
2-Methylphenol	1.1079	1.1403	80.00000	82.33680	ng	3	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9471	1.8601	80.00000	76.42440	ng	-4	30	0.0500	
4-Methylphenol	1.6919	1.6859	80.00000	79.71440	ng	0	30	0.0500	
N-Nitroso-di-n-propylamine	0.9128	0.9348	80.00000	81.93100	ng	2	30	0.0500	
Hexachloroethane	0.5850	0.6201	80.00000	84.80230	ng	6	30	0.0500	
Nitrobenzene	0.4872	0.4808	80.00000	78.94750	ng	-1	30	0.0500	
Isophorone	0.8498	0.8427	80.00000	79.33590	ng	-1	30	0.0500	
2-Nitrophenol	0.2283	0.2270	80.00000	79.57750	ng	-1	20	0.0500	
2,4-Dimethylphenol	0.2810	0.3030	80.00000	86.27690	ng	8	30	0.0500	
bis(2-Chloroethoxy)methane	0.5097	0.5051	80.00000	79.27020	ng	-1	30	0.0500	
Benzoic acid	0.1724	0.1986	80.00000	80.36410	ng	0	40	0.0500	
2,4-Dichlorophenol	0.3548	0.3601	80.00000	81.19290	ng	1	20	0.0500	
1,2,4-Trichlorobenzene	0.4106	0.4227	80.00000	82.36040	ng	3	30	0.0500	
Naphthalene	1.1337	1.2327	80.00000	86.98590	ng	9	30	0.0500	
4-Chloroaniline	0.4444	0.4839	80.00000	87.10630	ng	9	30	0.0500	
Hexachlorobutadiene	0.2451	0.2562	80.00000	83.62390	ng	5	20	0.0500	
4-Chloro-3-methylphenol	0.3721	0.3947	80.00000	84.85470	ng	6	20	0.0500	
2-Methylnaphthalene	0.7872	0.8129	80.00000	82.61410	ng	3	30	0.0500	
Hexachlorocyclopentadiene	0.3091	0.3415	80.00000	81.94890	ng	2	40	0.0500	
2,4,6-Trichlorophenol	0.4321	0.4547	80.00000	84.18850	ng	5	20	0.0500	
2,4,5-Trichlorophenol	0.4411	0.4585	80.00000	83.16850	ng	4	30	0.0500	
2-Chloronaphthalene	1.1391	1.2229	80.00000	85.88710	ng	7	30	0.0500	
2-Nitroaniline	0.4146	0.3962	80.00000	76.44680	ng	-4	30	0.0500	
Dimethylphthalate	1.3656	1.3561	80.00000	79.44080	ng	-1	30	0.0500	
2,6-Dinitrotoluene	0.3440	0.3631	80.00000	84.43340	ng	6	30	0.0500	
Acenaphthylene	1.8251	1.8974	80.00000	83.17220	ng	4	30	0.0500	
3-Nitroaniline	0.3245	0.3733	80.00000	92.02770	ng	15	30	0.0500	
Acenaphthene	1.1499	1.1160	80.00000	77.63670	ng	-3	20	0.0500	
2,4-Dinitrophenol	0.1823	0.2009	80.00000	79.35190	ng	-1	40	0.0500	
4-Nitrophenol	0.1654	0.1692	80.00000	81.82510	ng	2	40	0.0500	
Dibenzofuran	1.6731	1.7509	80.00000	83.72030	ng	5	30	0.0500	
2,4-Dinitrotoluene	0.4255	0.4234	80.00000	79.58920	ng	-1	30	0.0500	
Diethylphthalate	1.2735	1.3544	80.00000	85.08700	ng	6	30	0.0500	
Fluorene	1.3272	1.3365	80.00000	80.56260	ng	1	30	0.0500	
4-Chlorophenyl-phenylether	0.7073	0.6342	80.00000	71.72920	ng	-10	40	0.0500	
4-Nitroaniline	0.2594	0.2559	80.00000	78.94910	ng	-1	30	0.0500	

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

08/31

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524352153002
Calnum : 524350774002
Standards: 04WS1380

Run Name :
Filename : vhv02
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 13:31
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1505	0.1687	80.00000	89.71240	ng	12	30	0.0500	
N-Nitrosodiphenylamine	0.5236	0.5818	80.00000	88.88640	ng	11	20	0.0500	
Azobenzene	0.8490	0.8794	80.00000	82.86860	ng	4	30	0.0500	
4-Bromophenyl-phenylether	0.2588	0.2886	80.00000	89.23660	ng	12	30	0.0500	
Hexachlorobenzene	0.2809	0.3057	80.00000	87.05380	ng	9	30	0.0500	
Pentachlorophenol	0.1502	0.1698	80.00000	79.34230	ng	-1	20	0.0500	
Phenanthrene	1.1056	1.1805	80.00000	85.42330	ng	7	30	0.0500	
Anthracene	1.1309	1.1606	80.00000	82.10380	ng	3	30	0.0500	
Carbazole	0.7945	0.8115	80.00000	81.71550	ng	2	30	0.0500	
Di-n-butylphthalate	1.2414	1.3130	80.00000	84.61450	ng	6	30	0.0500	
Fluoranthene	1.2725	1.2847	80.00000	80.76640	ng	1	20	0.0500	
Benzidine	0.0401	0.0148	80.00000	29.47150	ng	-63	40	0.0500	c- crf
Pyrene	1.3738	1.3857	80.00000	80.69440	ng	1	30	0.0500	
Butylbenzylphthalate	0.5872	0.5837	80.00000	79.51760	ng	-1	30	0.0500	
3,3'-Dichlorobenzidine	0.4037	0.4101	80.00000	81.27800	ng	2	40	0.0500	
Benzo(a)anthracene	1.3129	1.2851	80.00000	78.30270	ng	-2	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.8087	0.8047	80.00000	79.60890	ng	0	30	0.0500	
Chrysene	1.3216	1.3428	80.00000	81.28220	ng	2	30	0.0500	
Di-n-octylphthalate	1.6742	1.7316	80.00000	82.74440	ng	3	20	0.0500	
Benzo(b)fluoranthene	1.9253	2.5378	80.00000	86.92000	ng	9	30	0.0500	
Benzo(k)fluoranthene	1.4118	1.2229	80.00000	69.29530	ng	-13	30	0.0500	
Benzo(a)pyrene	1.3592	1.5178	80.00000	89.33690	ng	12	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.6377	1.7351	80.00000	84.75620	ng	6	30	0.0500	
Dibenz(a,h)anthracene	1.3649	1.4602	80.00000	77.67420	ng	-3	30	0.0500	
Benzo(g,h,i)perylene	1.2672	1.2872	80.00000	81.26510	ng	2	30	0.0500	
2-Fluorophenol	1.2515	1.2455	80.00000	79.61610	ng	0	30	0.0500	
Phenol-d5	1.7481	1.7236	80.00000	78.88080	ng	-1	30	0.0500	
Nitrobenzene-d5	0.4925	0.4905	80.00000	79.67330	ng	0	30	0.0500	
2-Fluorobiphenyl	1.3598	1.3694	80.00000	80.56280	ng	1	30	0.0500	
2,4,6-Tribromophenol	0.2505	0.2765	80.00000	80.09040	ng	0	30	0.0500	
Terphenyl-d14	1.0678	1.0353	80.00000	77.56920	ng	-3	30	0.0500	

08/31

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 31-AUG-2004
Sequence: 524352153 (vhv)
Instrument ID: MSBNA03

CCV Filename: vhv02
Date Analyzed: 31-AUG-2004
Time Analyzed: 13:31

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	248109	5.59	850720	7.08	570359	9.22	1014817	11.04	978350	14.33	826333	16.78
LOWER LIMIT	124055	5.09	425360	6.58	285180	8.72	507409	10.54	489175	13.83	413167	16.28
UPPER LIMIT	496218	6.09	1701440	7.58	1140718	9.72	2029634	11.54	1956700	14.83	1652666	17.28

TYPE	SAMPLE	#												
CCV		002	248109	5.59	850720	7.08	570359	9.22	1014817	11.04	978350	14.33	826333	16.78
LCS	QC262905	003	252882	5.59	981386	7.08	651267	9.22	1179616	11.04	1187361	14.33	994730	16.78
LCS	QC262905	004	56033*	5.57	198698*	7.06	127293*	9.22	232221*	11.02	225708*	14.30	195731*	16.73
SAMPLE	174159-001	005	225509	5.58	857688	7.06	546121	9.21	1044018	11.03	1112133	14.31	970397	16.76
BLANK	QC263126	006	238378	5.58	867257	7.06	522590	9.21	973396	11.02	943058	14.31	857733	16.76
LCS	QC263127	007	247832	5.59	873281	7.07	565096	9.22	1010600	11.03	1042459	14.32	879317	16.77
MS	174320-003	008	233393	5.58	833648	7.07	518168	9.21	978854	11.02	929952	14.31	841316	16.76
MS	QC263128	009	243558	5.59	867108	7.07	559746	9.23	1017129	11.03	1033863	14.32	845338	16.77
MSD	QC263129	010	257221	5.59	902488	7.07	587843	9.22	1041715	11.03	1072097	14.32	873147	16.77
SAMPLE	174288-022	011	239963	5.58	865853	7.07	523024	9.21	974446	11.03	937038	14.31	821999	16.76
SAMPLE	174288-027	012	231675	5.58	833596	7.07	508441	9.22	968258	11.03	910771	14.31	800403	16.76
SAMPLE	174288-040	013	238306	5.59	843404	7.07	523529	9.21	960480	11.02	942929	14.31	835495	16.76
SAMPLE	174288-038	014	236453	5.59	840629	7.06	516065	9.22	969399	11.02	932440	14.31	842256	16.76
SAMPLE	174288-035	015	239742	5.59	867625	7.07	527657	9.21	977114	11.03	953733	14.31	842634	16.76
SAMPLE	174334-001	016	243203	5.59	871331	7.07	541428	9.21	1012921	11.03	894508	14.32	863951	16.78
SAMPLE	174300-001	017	261267	5.58	950964	7.07	601383	9.21	1098833	11.03	975800	14.34	515696	16.84
SAMPLE	174298-001	018	233124	5.58	860122	7.07	537990	9.21	990160	11.03	844961	14.33	348024*	16.81

* = Outside QC Limits

BNUNC) 8/1/04 Continuation

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 524350774 Instrument: MSBNA03 HP GCMS BNA 03 Begun: 30-AUG-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
01	vhu01	TUN	NP NL			30-AUG-2004 14:14	1.0						1	
02	vhu02	CCV				30-AUG-2004 14:32	1.0	2		1			2 cc-	
03	vhu03	ICAL	2ug/mL			30-AUG-2004 15:19	1.0						3	
04	vhu04	ICAL	10ug/mL			30-AUG-2004 15:57	1.0						4	
05	vhu05	ICAL	20ug/mL			30-AUG-2004 16:34	1.0						5	
06	vhu06	ICAL	50ug/mL			30-AUG-2004 17:11	1.0						2	
07	vhu07	ICAL	80ug/mL			30-AUG-2004 17:50	1.0						6	
08	vhu08	ICAL	120ug/mL			30-AUG-2004 18:26	1.0						7	
09	vhu09	ICAL	160ug/mL			30-AUG-2004 19:05	1.0						8	
10	vhu10	ICV	80ug/mL			30-AUG-2004 19:42	1.0	4		1			9	

ICAL: Oh except Aniline + Benzidine fail %RSD + r² - ND
- Benzidine fails min RF - ND

CCV: Aniline ↓; 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail %D
- 4-Chloroaniline ↓ fails warning limits

23

Stds used: 1=04WS1200 2=04WS1379 3=04WS1376 4=04WS1377 5=04WS1378 6=04WS1380 7=04WS1381 8=04WS1382 9=04WS1163
Flags used: -=low bias cc=CCV CCC failure

Analyst: _____ Date: 8/30/04

Page 1 of 1

8/31/04

(3) MRS MSS/MS/MSD

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 524352153 Instrument: MSBNA03 HP GCMS BNA 03 Begun: 31-AUG-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	vhv01	TUN	NP NL			31-AUG-2004 13:13	1.0	1.0				1	
002	vhv02	CCV				31-AUG-2004 13:31	1.0	1.0	2		1	2	
003	vhv03	LCS	QC262905	94163	Soil	31-AUG-2004 14:11	1.0	0.03381	4		1	3 GPC'd 1:DN46M=125.509	
004	vhv04	LCS	QC262905	94163	Soil	31-AUG-2004 14:50	1.0	0.03381	4	19	1	3 spk ⊥ 1:DN46M=132.158	
005	vhv05	SAMPLE	174159-001	94163	Soil	31-AUG-2004 15:26	1.0	0.03346			1	3 spk RF √Benzo(b)	
006	vhv06	BLANK	QC263126	94212	Soil	31-AUG-2004 16:41	1.0	0.03372	1		1	3	
007	vhv07	LCS	QC263127	94212	Soil	31-AUG-2004 17:18	1.0	0.03353	3		1	3	
008	vhv08	MSS	174320-003	94212	Soil	31-AUG-2004 17:54	1.0	0.0333	1		1	3	
009	vhv09	MS	QC263128	94212	Soil	31-AUG-2004 18:32	1.0	0.03361	3		1	3	
010	vhv10	MSD	QC263129	94212	Soil	31-AUG-2004 19:10	1.0	0.03288	3		1	3	
011	vhv11	SAMPLE	174288-022	94212	Soil	31-AUG-2004 19:46	1.0	0.03362			1	3	
012	vhv12	SAMPLE	174288-027	94212	Soil	31-AUG-2004 20:25	1.0	0.03336			1	3	
013	vhv13	SAMPLE	174288-040	94212	Soil	31-AUG-2004 21:02	1.0	0.03339			1	3	
014	vhv14	SAMPLE	174288-038	94212	Soil	31-AUG-2004 21:39	1.0	0.03327			1	3	
015	vhv15	SAMPLE	174288-035	94212	Soil	31-AUG-2004 22:17	1.0	0.03331			1	3	
016	vhv16	SAMPLE	174334-001	94212	Soil	31-AUG-2004 22:55	1.0	0.03307			1	3 RF √Benzo(b)	
017	vhv17	SAMPLE	174300-001	94212	Miscel	31-AUG-2004 23:32	1.0	0.03313			1	3	
018	vhv18	SAMPLE	174298-001	94212	Miscel	01-SEP-2004 00:09	5.0	0.03315			1	3	

CCV: Ok except Benzidine fails on RF
- Aniline ↓ fails warning limits
ICAL: Aniline + Benzidine fail - RF
ICV: Aniline ↓; 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail RF
- 4-Chloroaniline ↓ fails warning limits

M

Stds used: 1=04WS1200 2=04WS1380 3=04SS118
Flags used: spk=5% spike rule

Analyst: _____ Date: 9/1/04

JLH 9/1/04

REPORTING SUMMARY FOR 174320 8270 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | NPBCDDBDMBMNHNINDBBDTNCHCMHTTCNDADNADNDDDFCNDNABHPPADFPBDBCBDBBBIDNHILCCZCEIENCOSTMZECCALCC4TCCCNOMCNOCNTBNELPONNZPCCHNNLYBBZHINZZZNBSESPBBLBPSPSLL2OPPAC PBPAB MNCPPP2PNT2NPPFTP PP2 4SBPLPATBARPZARSOBKAPAMNH2HZZAZH2HPEBPH2CE21HNU3PP22HAHP2APP2H 2H EA6PZEB NHP DAY2PFFP1H

Lab ID	Inst ID	Analyzed	IDF	NPBCDDBDMBMNHNINDBBDTNCHCMHTTCNDADNADNDDDFCNDNABHPPADFPBDBCBDBBBIDNHILCCZCEIENCOSTMZECCALCC4TCCCNOMCNOCNTBNELPONNZPCCHNNLYBBZHINZZZNBSESPBBLBPSPSLL2OPPAC PBPAB MNCPPP2PNT2NPPFTP PP2 4SBPLPATBARPZARSOBKAPAMNH2HZZAZH2HPEBPH2CE21HNU3PP22HAHP2APP2H 2H EA6PZEB NHP DAY2PFFP1H
174320-003	MSBNA03	08/31/04 17:54	1.0	|+|+|+\

Curtis & Tompkins Laboratories Sample Preparation Summary 31-AUG-2004 15:46

Batch Number : 94212
Date Extracted: 31-AUG-2004
Extracted by : Amy Silverberg
Prep Method : 3550B

Analysis : N/A
Bgroup : MSSVOA
Units : g
Clean-up :

Spike #1 ID : 04WS1487A
Spike #2 ID : 04WS1566C
Spike #3 ID : 04WS1613A

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174286-001			URS Corporation	Soil	29.91	g	1	0.033434	1		1	0	0	8100		
174288-022			Blasland, Bouck & Lee	Soil	29.74	g	1	0.033625	1		1	0	0	8270		
174288-027			Blasland, Bouck & Lee	Soil	29.98	g	1	0.033356	1		1	0	0	8270		
174288-035			Blasland, Bouck & Lee	Soil	30.02	g	1	0.033311	1		1	0	0	8270		
174288-038			Blasland, Bouck & Lee	Soil	30.06	g	1	0.033267	1		1	0	0	8270		
174288-040			Blasland, Bouck & Lee	Soil	29.95	g	1	0.033389	1		1	0	0	8270		
174298-001			ConocoPhillips Company	Miscell.	30.17	g	1	0.033146	1		1	0	0	8100		
174300-001			ConocoPhillips Company	Miscell.	30.18	g	1	0.033135	1		1	0	0	8100		
174320-003			Treadwell & Rollo	Soil	30.03	g	1	0.033300	1		1	0	0	8270		MSS
174334-001			URS Corporation	Soil	30.24	g	1	0.033069	1		1	0	0	8100		
QC263126	MB			Soil	29.66	g	1	0.033715	1		1	0	0	MSSVOA		
QC263127	LCS			Soil	29.82	g	1	0.033535	1		1	1	1	MSSVOA		
QC263128	MS	of 174320-003		Soil	29.75	g	1	0.033613	1		1	1	1	MSSVOA		
QC263129	MSD	of 174320-003		Soil	30.41	g	1	0.032884	1		1	1	1	MSSVOA		

Prep Chemist: ASilverberg Reviewed By: [illegible] Date: 8/31/04

Relinquished By: ASilverberg Received By: [illegible] Date: 8/31/04

Curtis & Tompkins, Ltd. **8270 SOIL PREP LOG** BK 1976 page 32 of 100

LIMS Batch No: 94212
LIMS Analysis MSSV0A
Extracted by: AMS
Date Extracted: 8/31/04

Extraction Method:
☑ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel
☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
174286-001	29.91	1.0		
174288-022 A	29.74			
-027 A	29.98			
-035 B	30.02			
-038 B	30.06			
-040 A	29.95			
174298-001 A-D	30.17			
174300-001 A-D	30.18			
174320-003 A	30.03			MSS
MB QC263126	29.66			
LCS 27	29.82			
MS 28	29.75			
MSD 29	30.41			
174334-001 A-D	30.24			

AMS 8/31/04

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM433 L0410	AMS 8/31/04
Samples were dried with baked, CH_2Cl_2-rinsed ~~granular~~ powder Na_2SO_4	JTBA17H50	
1.0 mL of surrogate solution was added to all samples	04WS1487A	
1.0 / 1.0 mL of matrix spiking solution was added to all spikes	04WS1566C / 04WS1613A	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM44156	
Acetone	EM44085	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	JTBA17H50	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	
Concentrated to final volumes as noted above	✓	

N Silverberg 8/31/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

Jennifer Alles 8/31/04
Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. BK1979

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174286-001	29.91	8100	CompA-D
174288-022A	29.74	8270	
-027A	29.98		
-035B	30.02		
-038B	30.06		
-040A	29.95		MSS
174298-001	30.17	8100	CompA-D, rocky
174300-001	30.18	8100	CompA-D, rocky
MB	29.66	8270	EM43310410
LCS	29.82		
MS	30.07		174288-040A
MSD	30.06		

JRD 8/30/04

Read and Understood By

Jennifer Dell 8/30/04

Signed Date Signed Date

PROJECT Soil Aliquot

Notebook No. BK 1979

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
174320-003A	30.03	8270	MSS
MS	29.75	↓	
MSD	30.41		

Read and Understood By

8/31/04

86
PROJECT Soil Aliquot

Notebook No. OK 1979
Continued From Page

Sample	weight	Analysis	comment
174334-001 A-0	30.24	/ 8100	4:1 comp

Read and Understood By

08/31/04
Date

Signed

Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
Phenol	ug/Kg	04/18/03 32	04/16/03 34	04/16/03 28	04/16/03 34	04/18/03 22
2-Chlorophenol	ug/Kg	04/18/03 32	04/16/03 32	04/16/03 22	04/16/03 34	04/18/03 25
1,4-Dichlorobenzene	ug/Kg	04/18/03 28	04/16/03 27	04/16/03 26	04/16/03 30	04/18/03 20
N-Nitroso-di-n-propylamine	ug/Kg	04/18/03 24	04/16/03 25	04/16/03 20	04/16/03 25	04/18/03 21
1,2,4-Trichlorobenzene	ug/Kg	04/18/03 20	04/16/03 33	04/16/03 22	04/16/03 36	04/18/03 24
4-Chloro-3-methylphenol	ug/Kg	04/18/03 38	04/16/03 27	04/16/03 35	04/16/03 41	04/18/03 27
Acenaphthene	ug/Kg	04/18/03 23	04/16/03 23	04/25/03 14	04/16/03 28	04/24/03 10
4-Nitrophenol	ug/Kg	04/28/03 25	04/16/03 36	04/16/03 36	04/16/03 46	04/18/03 39
2,4-Dinitrotoluene	ug/Kg	04/18/03 28	04/16/03 43	04/16/03 21	04/16/03 41	04/18/03 28
Pentachlorophenol	ug/Kg	04/28/03 32	04/16/03 24	04/16/03 47	03/17/03 43	04/18/03 43
Pyrene	ug/Kg	04/18/03 28	04/16/03 21	04/25/03 11	04/16/03 29	04/24/03 9.9
N-Nitrosodimethylamine	ug/Kg	04/18/03 41	04/16/03 41	04/16/03 22	04/16/03 36	04/18/03 24
Pyridine	ug/Kg	04/18/03 22	04/16/03 31	04/16/03 21	04/16/03 21	04/24/03 22
Aniline	ug/Kg	04/18/03 36	04/16/03 25	04/16/03 35	04/16/03 34	04/18/03 35
bis(2-Chloroethyl)ether	ug/Kg	04/18/03 37	04/16/03 37	04/16/03 24	04/16/03 46	04/18/03 23
1,3-Dichlorobenzene	ug/Kg	04/18/03 27	04/16/03 24	04/16/03 24	04/16/03 37	04/18/03 20
Benzyl alcohol	ug/Kg	04/18/03 31	04/16/03 26	04/16/03 18	04/16/03 35	04/18/03 26
1,2-Dichlorobenzene	ug/Kg	04/18/03 37	04/16/03 23	04/16/03 25	04/16/03 32	04/18/03 18
2-Methylphenol	ug/Kg	04/18/03 26	04/16/03 36	04/16/03 25	04/16/03 45	04/18/03 21
bis(2-Chloroisopropyl) ether	ug/Kg	04/18/03 34	04/16/03 24	04/16/03 21	04/16/03 37	04/18/03 28
4-Methylphenol	ug/Kg	04/18/03 27	04/16/03 36	04/16/03 25	04/16/03 38	04/18/03 24
Hexachloroethane	ug/Kg	04/18/03 26	04/16/03 26	04/16/03 24	04/16/03 32	04/18/03 19
Nitrobenzene	ug/Kg	04/18/03 31	04/16/03 41	04/16/03 20	04/16/03 34	04/18/03 27
Isophorone	ug/Kg	04/18/03 19	05/02/03 27	04/16/03 18	04/16/03 30	04/18/03 21
2-Nitrophenol	ug/Kg	04/28/03 27	04/16/03 24	04/16/03 26	04/16/03 44	04/18/03 21
2,4-Dimethylphenol	ug/Kg	04/18/03 63	04/16/03 51	04/16/03 72	04/16/03 81	04/18/03 64
Benzoic acid	ug/Kg	04/28/03 49	04/16/03 210	04/16/03 200	04/16/03 150	04/18/03 250
bis(2-Chloroethoxy)methane	ug/Kg	04/18/03 30	04/16/03 25	04/16/03 22	04/16/03 37	04/18/03 24
2,4-Dichlorophenol	ug/Kg	04/18/03 31	04/16/03 24	04/16/03 25	04/16/03 38	04/18/03 28
Naphthalene	ug/Kg	04/18/03 24	05/02/03 30	04/16/03 22	04/16/03 33	04/18/03 20
4-Chloroaniline	ug/Kg	04/18/03 30	04/16/03 25	04/16/03 36	04/16/03 20	04/18/03 31
Hexachlorobutadiene	ug/Kg	04/18/03 29	04/16/03 32	04/16/03 23	04/16/03 42	04/18/03 24
2-Methylnaphthalene	ug/Kg	04/18/03 27	05/02/03 26	04/16/03 24	04/16/03 33	04/18/03 22
Hexachlorocyclopentadiene	ug/Kg	04/28/03 30	05/02/03 31	04/16/03 110	03/17/03 85	04/24/03 30
2,4,6-Trichlorophenol	ug/Kg	04/18/03 30	04/16/03 31	04/16/03 29	04/16/03 35	04/18/03 27
2,4,5-Trichlorophenol	ug/Kg	04/18/03 20	04/16/03 43	04/16/03 33	04/16/03 40	04/18/03 29
2-Chloronaphthalene	ug/Kg	04/18/03 29	04/16/03 22	04/16/03 20	04/16/03 28	04/18/03 18
2-Nitroaniline	ug/Kg	04/18/03 25	04/16/03 34	04/25/03 8.8	04/16/03 32	04/18/03 28
Dimethylphthalate	ug/Kg	04/18/03 34	04/16/03 28	04/16/03 26	04/16/03 37	04/18/03 26
Acenaphthylene	ug/Kg	04/18/03 27	04/16/03 11	04/25/03 14	04/16/03 27	04/18/03 22
2,6-Dinitrotoluene	ug/Kg	04/18/03 29	04/16/03 25	04/16/03 32	04/16/03 26	04/18/03 27
3-Nitroaniline	ug/Kg	04/18/03 21	04/16/03 20	04/25/03 16	03/17/03 18	04/24/03 13
2,4-Dinitrophenol	ug/Kg	04/18/03 170	04/16/03 220	04/16/03 200	04/16/03 210	04/18/03 320
Dibenzofuran	ug/Kg	04/18/03 22	05/02/03 30	04/16/03 24	04/16/03 33	04/18/03 24
Diethylphthalate	ug/Kg	04/18/03 24	04/16/03 29	04/16/03 27	04/16/03 36	04/18/03 27
Fluorene	ug/Kg	04/18/03 21	05/02/03 30	04/25/03 15	04/16/03 30	04/24/03 11
4-Chlorophenyl-phenylether	ug/Kg	04/18/03 31	04/16/03 26	04/16/03 25	04/16/03 46	04/18/03 25
4-Nitroaniline	ug/Kg	04/18/03 33	04/16/03 28	04/16/03 30	03/17/03 31	04/18/03 21
4,6-Dinitro-2-methylphenol	ug/Kg	04/18/03 240	04/16/03 230	04/16/03 230	04/16/03 360	04/18/03 260
N-Nitrosodiphenylamine	ug/Kg	04/18/03 23	04/16/03 17	04/16/03 34	04/16/03 44	04/18/03 26
Azobenzene	ug/Kg	04/18/03 19	05/02/03 26	04/16/03 29	04/16/03 46	04/18/03 28

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
4-Bromophenyl-phenylether	ug/Kg	04/18/03 40	04/16/03 29	04/16/03 25	04/16/03 47	04/18/03 25
Hexachlorobenzene	ug/Kg	04/18/03 24	04/16/03 25	04/16/03 25	04/16/03 43	04/18/03 24
Phenanthrene	ug/Kg	04/18/03 24	04/16/03 27	04/25/03 13	04/16/03 40	04/24/03 10
Anthracene	ug/Kg	04/18/03 28	05/02/03 32	04/25/03 14	04/16/03 37	04/24/03 10
Di-n-butylphthalate	ug/Kg	04/18/03 33	04/16/03 26	04/16/03 37	04/16/03 42	04/18/03 31
Fluoranthene	ug/Kg	04/18/03 31	05/02/03 31	04/25/03 12	04/16/03 48	04/24/03 13
Benzidine	ug/Kg	04/28/03 80	05/02/03 33			11/19/02 140
Butylbenzylphthalate	ug/Kg	04/18/03 31	04/16/03 28	04/16/03 28	04/16/03 20	04/18/03 34
3,3'-Dichlorobenzidine	ug/Kg	04/18/03 44	04/16/03 31	04/16/03 49	04/16/03 21	04/18/03 47
Benzo(a)anthracene	ug/Kg	04/18/03 23	05/02/03 28	04/25/03 11	04/16/03 26	04/18/03 29
Chrysene	ug/Kg	04/18/03 28	04/16/03 27	04/25/03 13	04/16/03 28	04/24/03 11
bis(2-Ethylhexyl)phthalate	ug/Kg	04/18/03 26	04/16/03 41	04/16/03 28	04/16/03 27	04/18/03 37
Di-n-octylphthalate	ug/Kg	04/18/03 21	04/16/03 33	04/16/03 29	04/16/03 22	04/18/03 31
Benzo(b)fluoranthene	ug/Kg	04/18/03 21	05/02/03 26	04/25/03 12	04/16/03 28	04/18/03 25
Benzo(k)fluoranthene	ug/Kg	04/18/03 27	05/02/03 32	04/25/03 9.2	04/16/03 35	04/24/03 10
Benzo(a)pyrene	ug/Kg	04/28/03 21	05/02/03 32	04/25/03 11	04/16/03 32	04/24/03 9.8
Indeno(1,2,3-cd)pyrene	ug/Kg	04/18/03 31	05/02/03 31	04/25/03 14	04/16/03 24	04/24/03 9.7
Dibenz(a,h)anthracene	ug/Kg	04/28/03 21	05/02/03 33	04/25/03 14	04/16/03 27	04/24/03 10
Benzo(g,h,i)perylene	ug/Kg	04/18/03 24	05/02/03 28	04/25/03 14	04/16/03 28	04/24/03 10

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

MSS

Instid	: MSBNA03	Samplenum:	174320-003	Cident	: BB3EX119[0.5]
Seqnum	: 524352153008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vhv08	Batchnum	: 94212	Injected	: 31-AUG-2004 17:54
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524350774002	Caldate	: 30-AUG-2004	Caltype	:

Prep: 30.03 g --> 1.0 ml = 0.0333 ml/g PDF

Analyte	Result	RTS	RL	B=vhv06	Flags
N-Nitrosodimethylamine	ND		330		
Phenol	ND		330		
bis(2-Chloroethyl)ether	ND		330		
2-Chlorophenol	ND		330		
1,3-Dichlorobenzene	ND		330		
1,4-Dichlorobenzene	ND		330		
Benzyl alcohol	ND		330		
1,2-Dichlorobenzene	ND		330		
2-Methylphenol	ND		330		
bis(2-Chloroisopropyl) ether	ND		330		
4-Methylphenol	ND		330		
N-Nitroso-di-n-propylamine	ND		330		
Hexachloroethane	ND		330		
Nitrobenzene	ND		330		
Isophorone.....	~~670~~ ND	-0.311	330		x
2-Nitrophenol	ND		670		
2,4-Dimethylphenol	ND		330		
Benzoic acid	ND		1700		
bis(2-Chloroethoxy)methane	ND		330		
2,4-Dichlorophenol	ND		330		
1,2,4-Trichlorobenzene	ND		330		
Naphthalene	ND		330		
4-Chloroaniline	ND		330		
Hexachlorobutadiene	ND		330		
4-Chloro-3-methylphenol	ND		330		
2-Methylnaphthalene	ND		330		
Hexachlorocyclopentadiene	ND		1700		
2,4,6-Trichlorophenol	ND		330		
2,4,5-Trichlorophenol	ND		330		
2-Chloronaphthalene	ND		330		
2-Nitroaniline	ND		670		
Dimethylphthalate	ND		330		
Acenaphthylene	ND		330		
2,6-Dinitrotoluene.....	~~520~~ ND	0.154	330		x
3-Nitroaniline	ND		670		
Acenaphthene	ND		670		
2,4-Dinitrophenol	ND		1700		
4-Nitrophenol	ND		670		
Dibenzofuran	ND		330		
2,4-Dinitrotoluene.....	~~420~~ ND	-0.322	330		x
Diethylphthalate	ND		330		

-=low bias v=ICV x=false positive

Analyst: _____ Date: 08/31/04 Reviewer: _____ Date: 9/13/03

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	174320-003	Cident	: BB3EX119[0.5]
Seqnum	: 524352153008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: vhv08	Batchnum	: 94212	Injected	: 31-AUG-2004 17:54
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524350774002	Caldate	: 30-AUG-2004	Caltype	:

Analyte	Result	RTS	RL	B=vhv06	Flags
Fluorene	ND		330		
4-Chlorophenyl-phenylether	ND		330		
4-Nitroaniline	ND		670		v-
4,6-Dinitro-2-methylphenol	ND		1700		
N-Nitrosodiphenylamine	ND		330		
Azobenzene	ND		330		
4-Bromophenyl-phenylether	ND		330		
Hexachlorobenzene	ND		330		
Pentachlorophenol	ND		670		
Phenanthrene	ND		330		
Anthracene	ND		330		
Di-n-butylphthalate	ND		330		
Fluoranthene	ND		330		
Pyrene	ND		330		
Butylbenzylphthalate	ND		330		
3,3'-Dichlorobenzidine	ND		670		
Benzo(a)anthracene	ND		67		
Chrysene	ND		330		
bis(2-Ethylhexyl)phthalate	ND		330		
Di-n-octylphthalate	ND		330		
Benzo(b)fluoranthene	ND		67		
Benzo(k)fluoranthene	ND		67		
Benzo(a)pyrene	ND		67		
Indeno(1,2,3-cd)pyrene	ND		67		
Dibenz(a,h)anthracene	ND		67		
Benzo(g,h,i)perylene	ND		330		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3330	2569	77	25-121	
Phenol-d5	3330	2383	72	24-113	
2,4,6-Tribromophenol	3330	2047	61	19-122	
Nitrobenzene-d5	1665	1161	70	23-120	
2-Fluorobiphenyl	1665	1281	77	30-115	
Terphenyl-d14	1665	1150	69	18-137	

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	233393	-5.93	5.59	5.58	-0.01
Naphthalene-d8	850720	833648	-2.01	7.08	7.07	-0.01
Acenaphthene-d10	570359	518168	-9.15	9.22	9.21	-0.01
Phenanthrene-d10	1014817	978854	-3.54	11.04	11.02	-0.02
Chrysene-d12	978350	929952	-4.95	14.33	14.31	-0.02
Perylene-d12	826333	841316	1.81	16.78	16.76	-0.02

-=low bias v=ICV x=false positive

Analyst: _____ Date: 8/31/04 Reviewer: _____ Date: 9/1/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D
Report Date: 31-Aug-2004 18:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 17:54 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MSS,174320-003
Misc Info : 94212,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	4.287	4.256	(0.768)	563444	77.1614	77.1613
$ 4 Phenol-d5	99	5.249	5.260	(0.941)	729886	71.5593	71.5593
6 Aniline	66	5.249	5.291	(0.941)	39945	9.97032	9.9703
7 bis(2-Chloroethyl)ether	63	5.580	5.354	(1.000)	7756	1.21825	1.2182
* 10 1,4-Dichlorobenzene-d4	152	5.580	5.591	(1.000)	233393	40.0000	
17 N-Nitroso-di-n-propylamine	70	6.253	6.140	(1.121)	52463	9.85067	9.8506
$ 19 Nitrobenzene-d5	82	6.253	6.275	(0.884)	357787	34.8581	34.8581
21 Isophorone	82	6.253	6.564	(0.884)	357787	20.2024	20.2024
22 2,4-Dimethylphenol	122	6.791	6.709	(0.960)	13000	2.22014	2.2201
25 Benzoic acid	122	6.822	6.937	(0.965)	2525	7.46375	7.4637
* 28 Naphthalene-d8	136	7.071	7.082	(1.000)	833648	40.0000	
$ 37 2-Fluorobiphenyl	172	8.385	8.396	(0.910)	677442	38.4572	38.4571
40 Dimethylphthalate	163	9.213	8.955	(1.000)	111474	6.30146	6.3014
41 2,6-Dinitrotoluene	165	9.213	9.059	(1.000)	70201	15.7523	15.7522

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D
Report Date: 31-Aug-2004 18:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 44 Acenaphthene-d10	164	9.213	9.224	(1.000)	518168	40.0000	
51 Fluorene	166	10.196	9.887	(1.107)	12891	0.74984	0.7498
52 2,4-Dinitrotoluene	165	9.213	9.535	(1.000)	70201	12.7349	12.7348
55 N-Nitrosodiphenylamine	169	10.196	10.063	(0.925)	7173	0.55979	0.5597
$ 57 2,4,6-Tribromophenol	330	10.196	10.218	(1.107)	215730	61.4657	61.4657
58 4-Bromophenyl-phenylether	248	10.196	10.477	(0.925)	14457	2.28301	2.2830
* 61 Phenanthrene-d10	188	11.024	11.036	(1.000)	978854	40.0000	
62 Phenanthrene	178	11.045	11.067	(1.002)	2747	0.10157	0.1015
63 Anthracene	178	11.045	11.129	(1.002)	2747	0.09929	0.0992
65 Di-n-butylphthalate	149	11.770	11.781	(1.068)	3309	0.10894	0.1089
66 Fluoranthene	202	12.515	12.536	(1.135)	5507	0.17685	0.1768
67 Benzidine	184	12.981	12.692	(0.907)	10301	11.0635	11.0635
68 Pyrene	202	12.794	12.816	(0.894)	6019	0.18847	0.1884
$ 69 Terphenyl-d14	244	12.991	13.002	(0.908)	857574	34.5461	34.5461
71 bis(2-Ethylhexyl)phthalate	149	14.316	14.337	(1.001)	3535	0.18803	0.1880
73 Benzo(a)anthracene	228	14.326	14.306	(1.001)	3466	0.11356	0.1135
* 74 Chrysene-d12	240	14.305	14.327	(1.000)	929952	40.0000	
75 Chrysene	228	14.326	14.379	(1.001)	3466	0.11282	0.1128
79 Benzo(a)pyrene	252	16.614	16.687	(0.991)	2116	0.07405	0.0740
* 80 Perylene-d12	264	16.758	16.780	(1.000)	841316	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.305	19.461	(1.152)	1402	0.04072	0.0407
83 Benzo(g,h,i)perylene	276	20.029	20.164	(1.195)	1441	0.05410	0.0541

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D
Report Date: 31-Aug-2004 18:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 17:54 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MSS,174320-003
Misc Info : 94212,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	5.580	1481854	40.000
* 74 Chrysene-d12	14.305	2694960	40.000
* 80 Perylene-d12	16.758	2453532	40.000

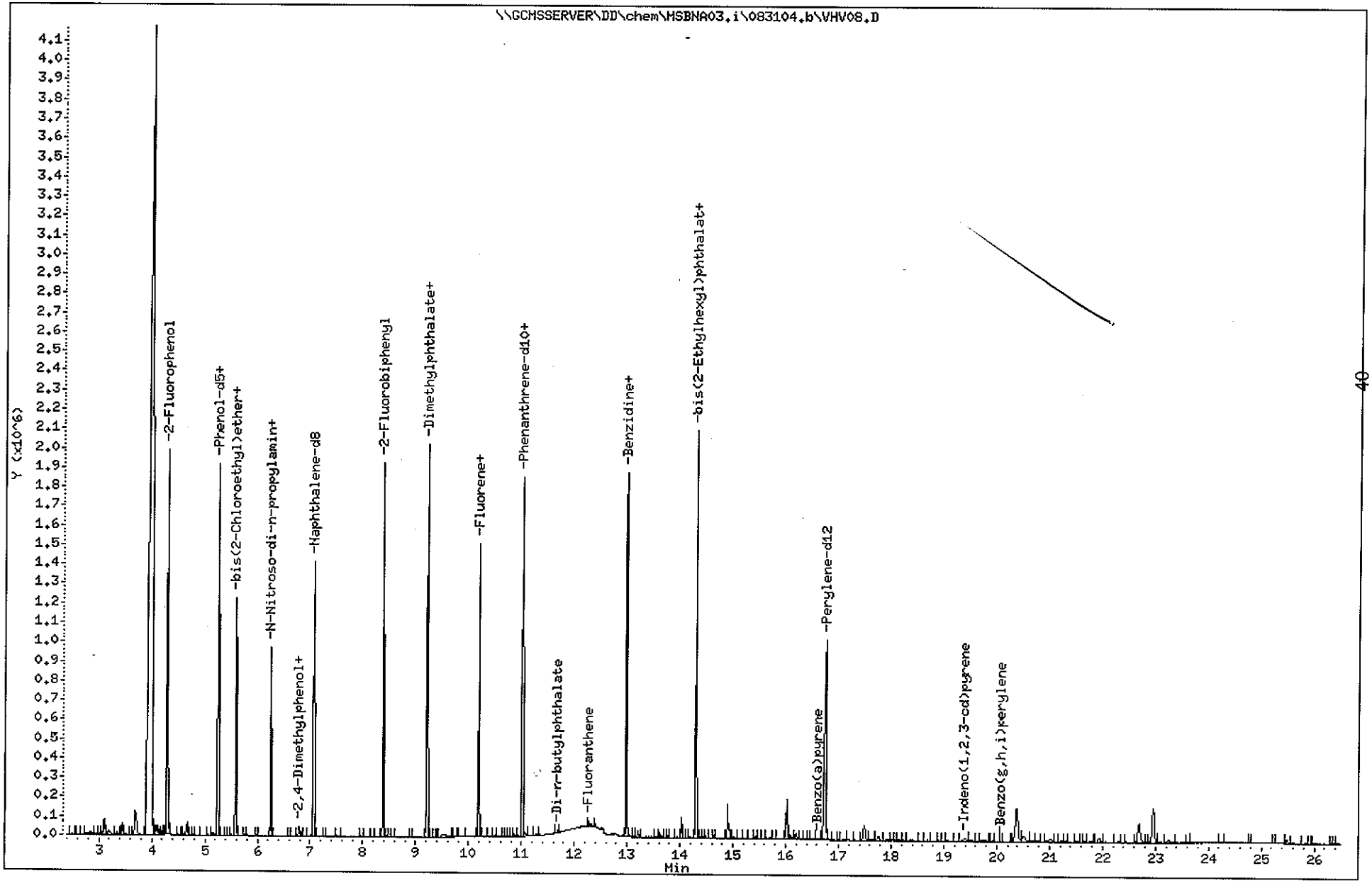
		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Toluene				CAS #: 108-88-3			
3.107	156777	4.23191489	4.2319	94	nbs75k.l	965	10

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D
Report Date: 31-Aug-2004 18:49

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Oxirane, 2,3-dimethyl-, cis-					CAS #: 1758-33-4		
3.686	374910	10.1200253	10.1200	35	nbs75k.l	270	10
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
3.997	17196103	464.178063	464.1780	39	nbs75k.l	64274	10
Hexatriacontane					CAS #: 630-06-8		
14.895	359855	5.34115534	5.3411	95	nbs75k.l	74636	74
Hexatriacontane					CAS #: 630-06-8		
16.024	401072	6.53868790	6.5386	95	nbs75k.l	74636	80
1,3-Dioxolane-4-methanol, 2-pentadecyl-,					CAS #: 30889-29-3		
20.381	619300	10.0964650	10.0964	53	nbs75k.l	49932	80
1H-Indene, 5-butyl-6-hexyloctahydro-					CAS #: 55044-36-5		
22.689	359389	5.85912880	5.8591	38	nbs75k.l	36680	80
Anthracene, 9-cyclohexyltetradecahydro-					CAS #: 55255-70-4		
22.958	528647	8.61854665	8.6185	30	nbs75k.l	38558	80

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D
Date : 31-AUG-2004 17:54
Client ID: CURTIS&TOMPKINS
Sample Info: MSS,174320-003
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

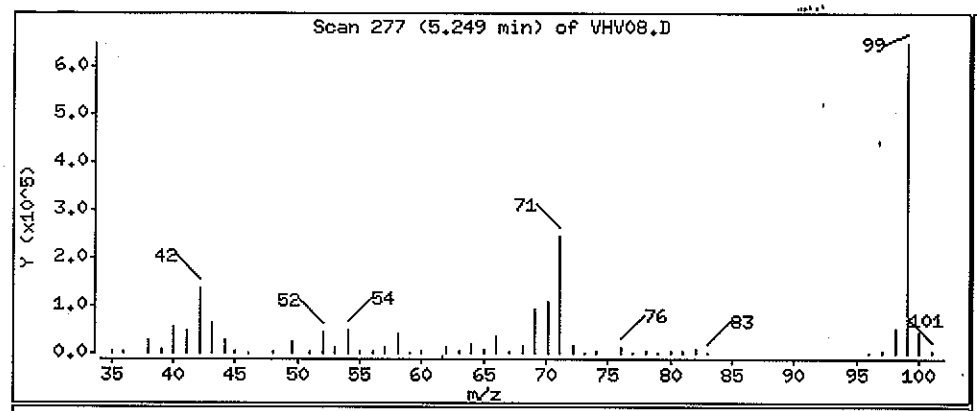
Operator: BVD

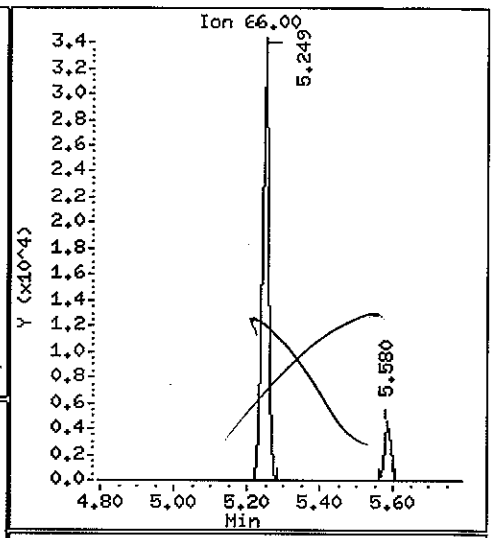
Column phase: Xti 5 x .5 u

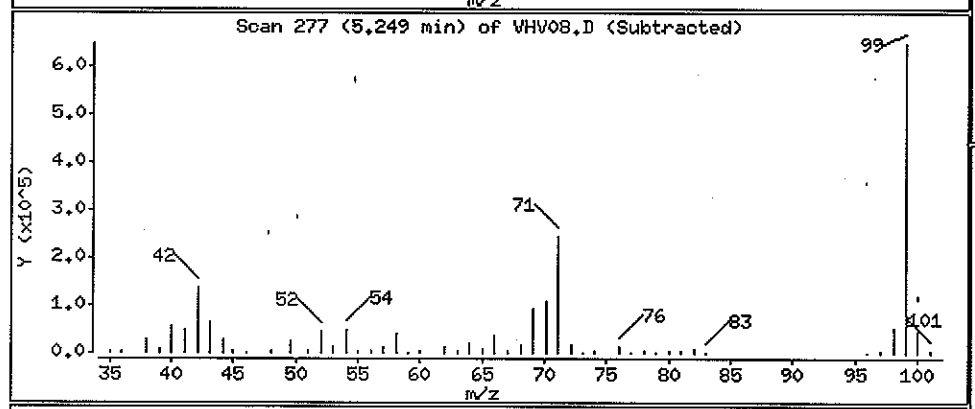
Column diameter: 0.25

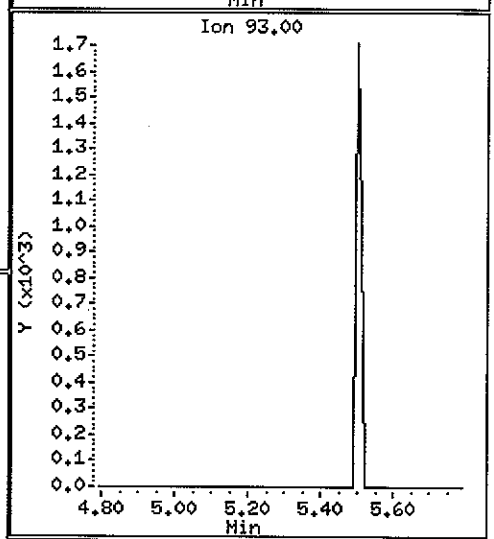
6 Aniline

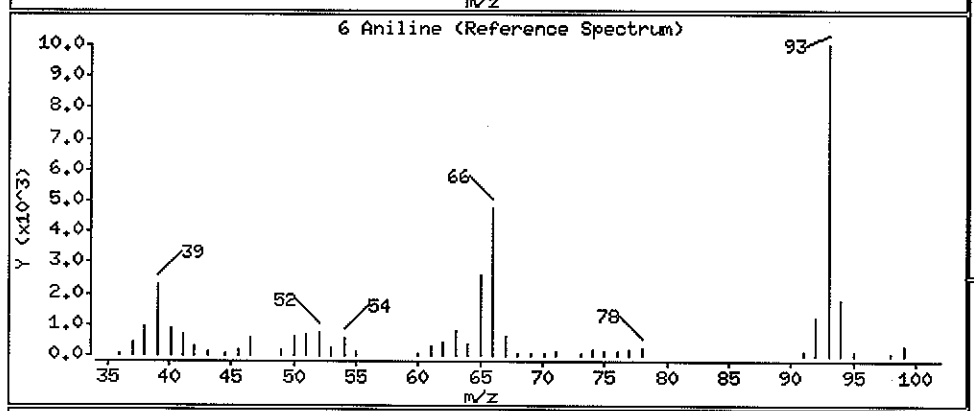
Concentration: 9.9703 ug/L

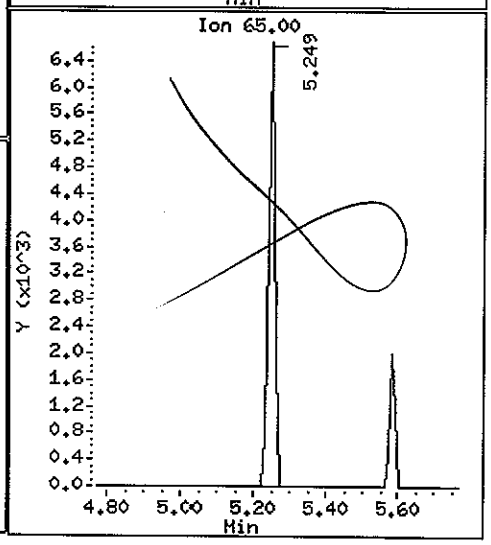


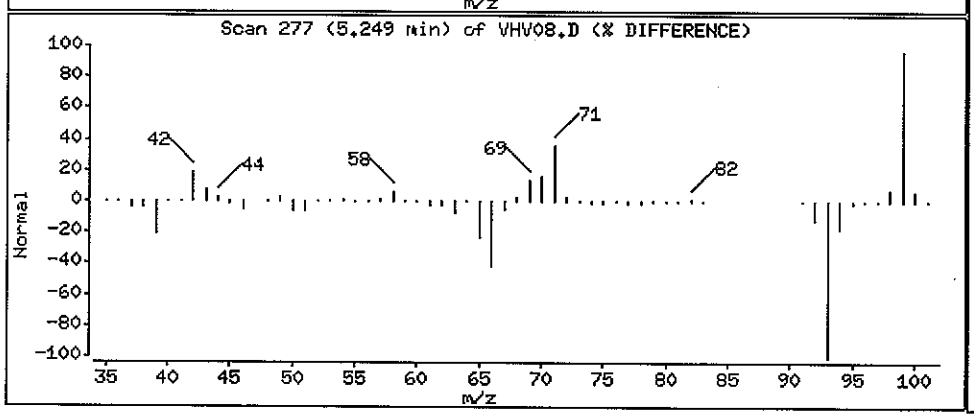












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

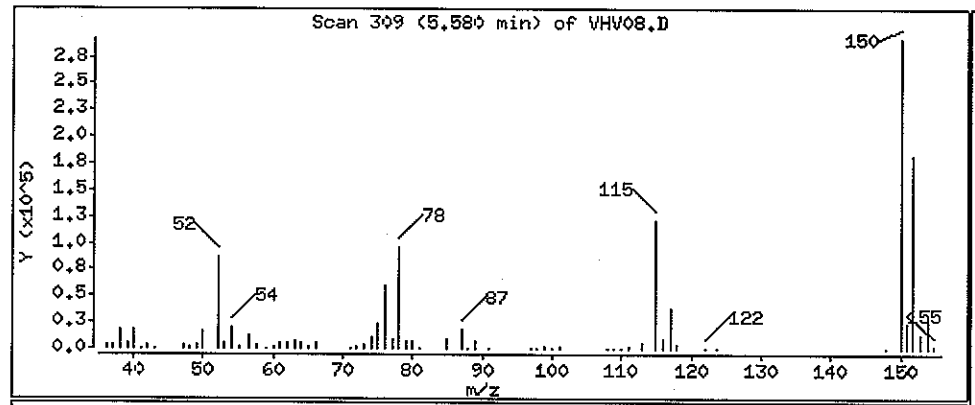
Operator: BVD

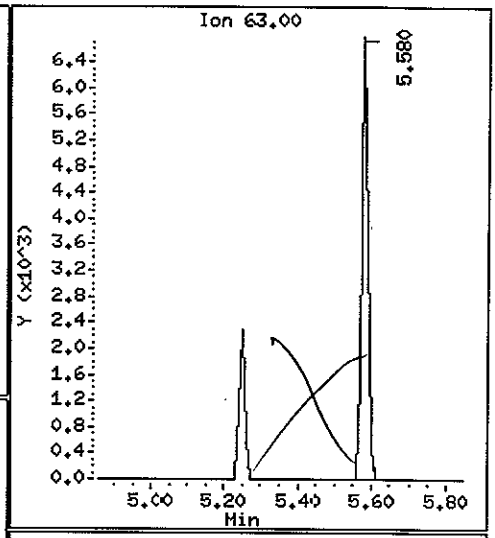
Column phase: Xti 5 x .5 u

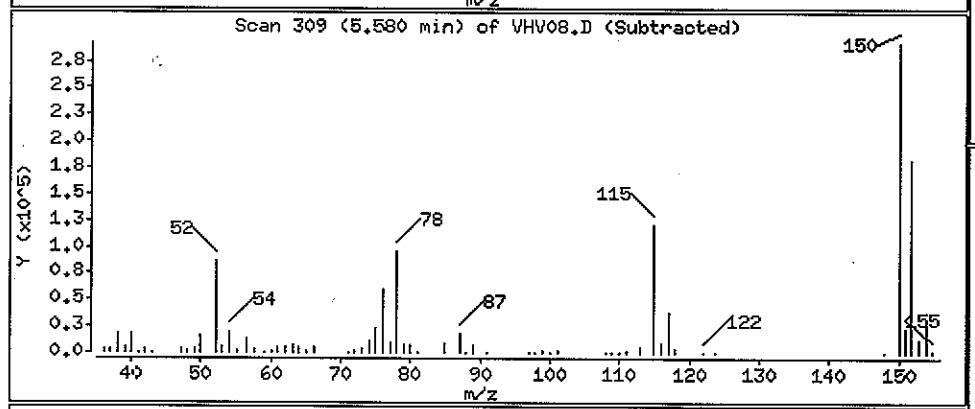
Column diameter: 0.25

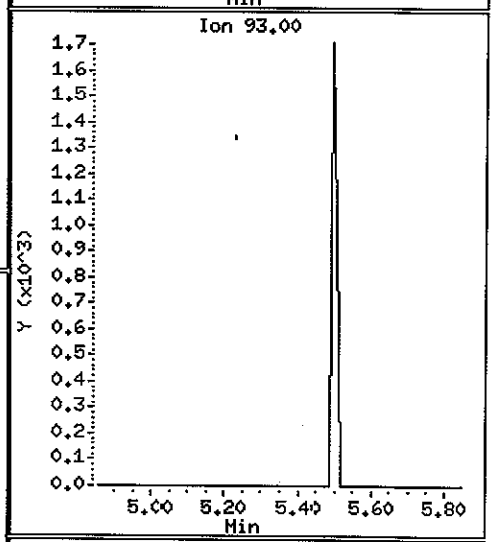
7 bis(2-Chloroethyl)ether

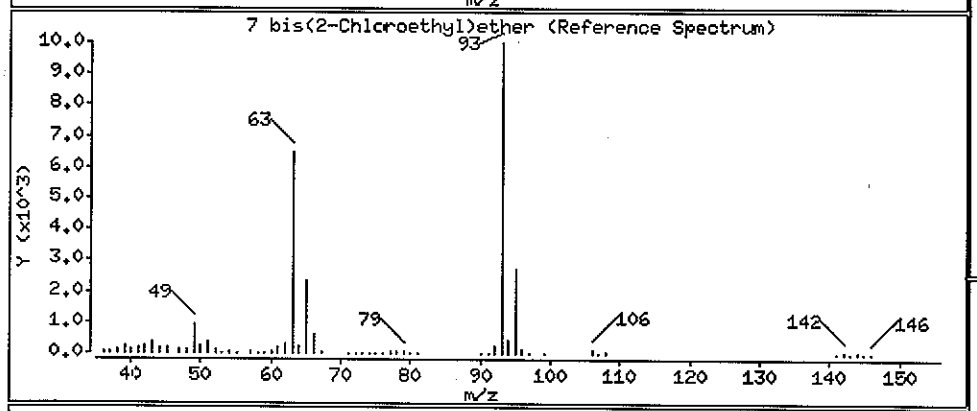
Concentration: 1.2182 ug/L

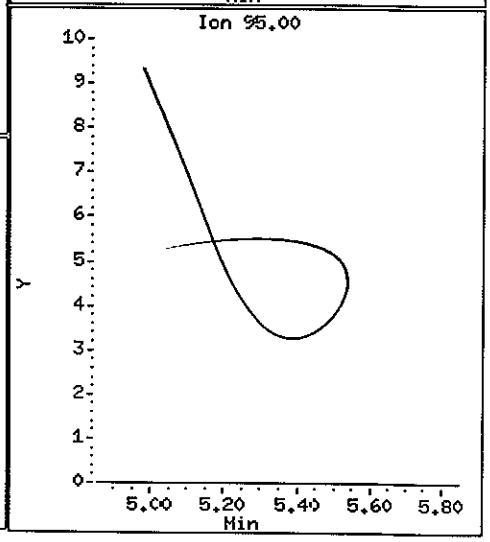


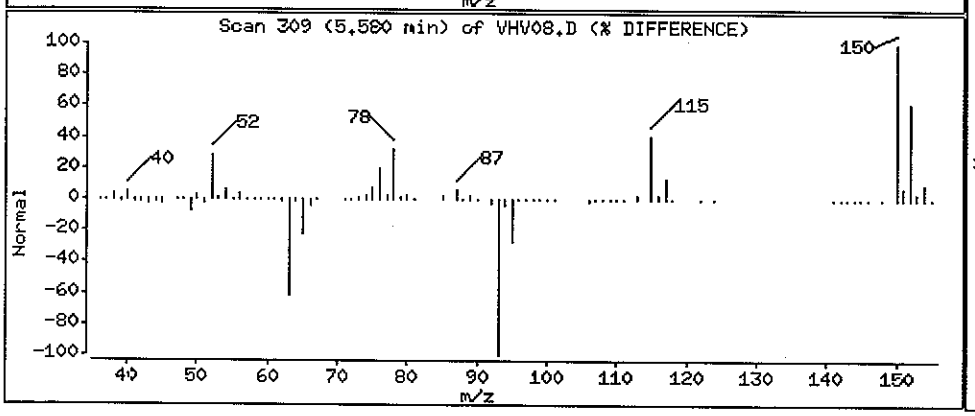












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

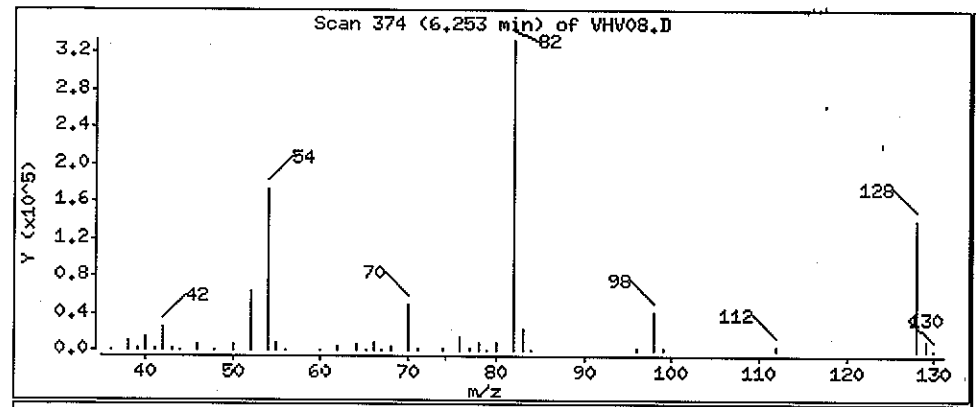
Operator: BVD

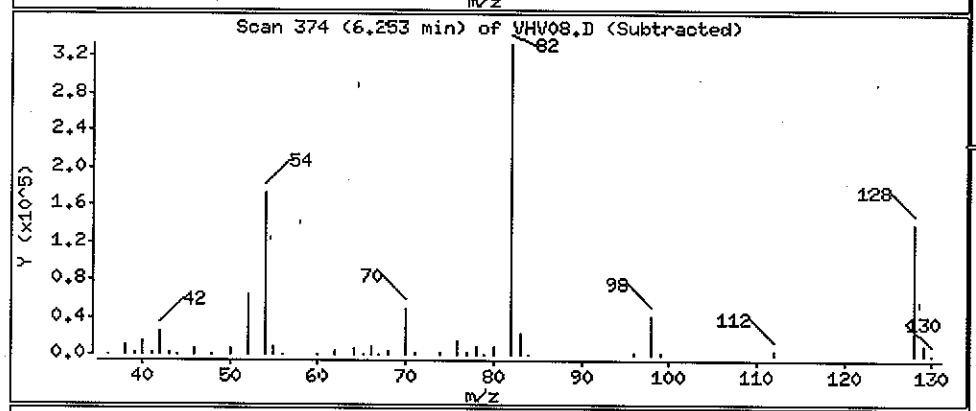
Column phase: Xti 5 x .5 u

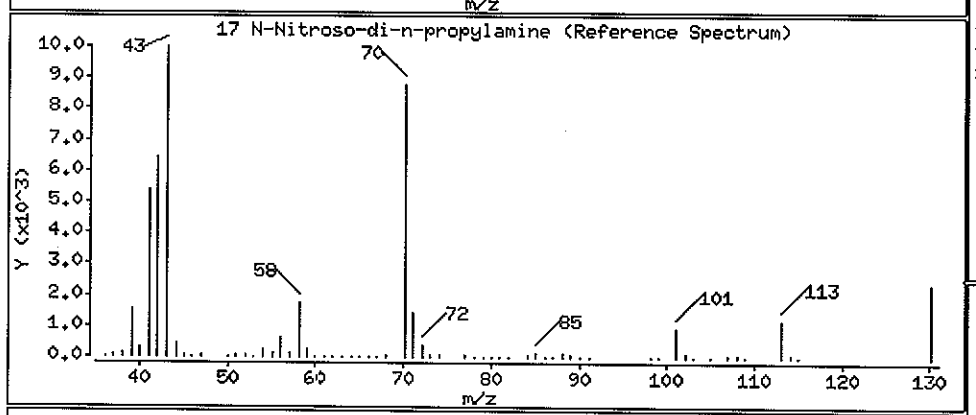
Column diameter: 0.25

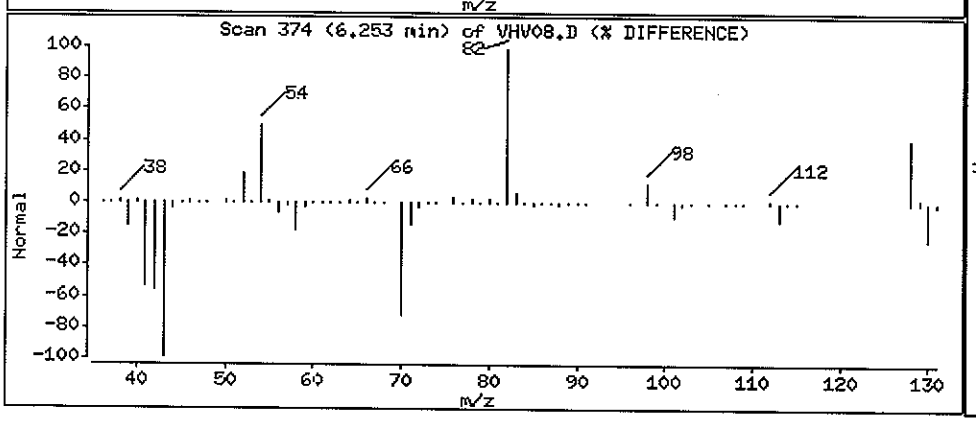
17 N-Nitroso-di-n-propylamine

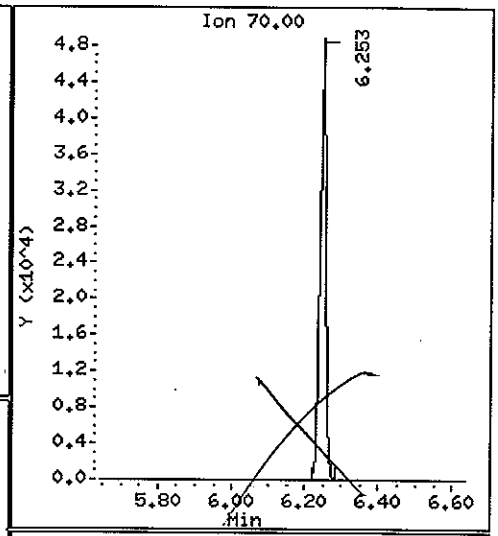
Concentration: 9.8506 ug/L

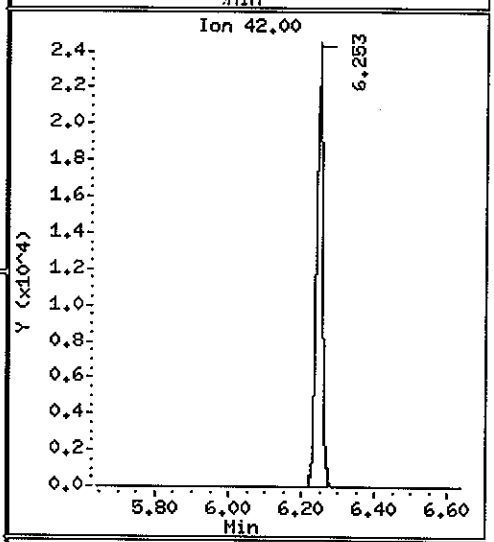


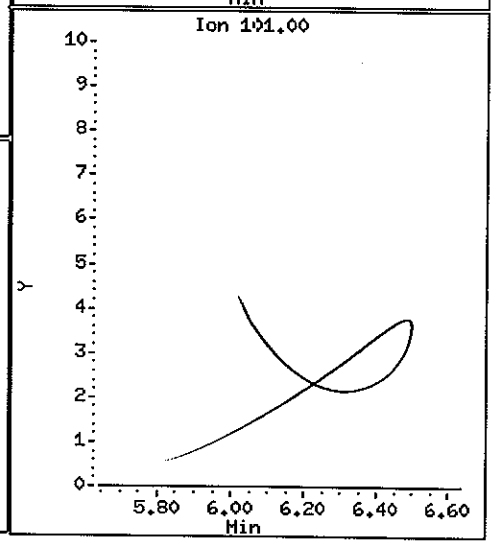












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

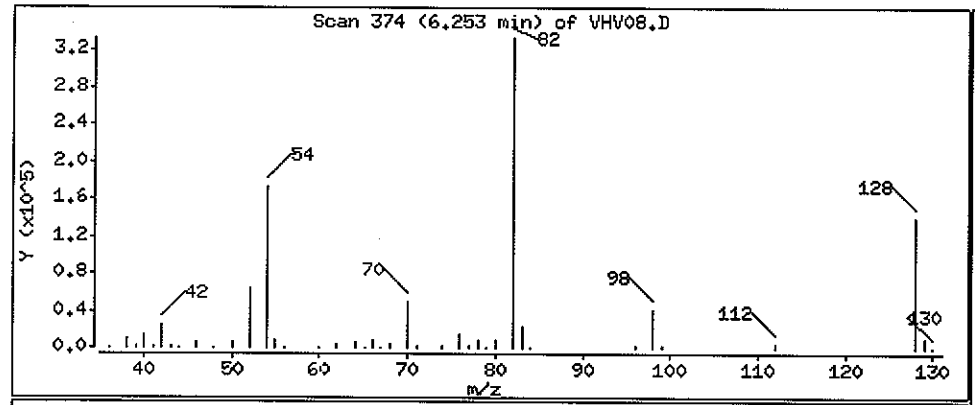
Operator: BVD

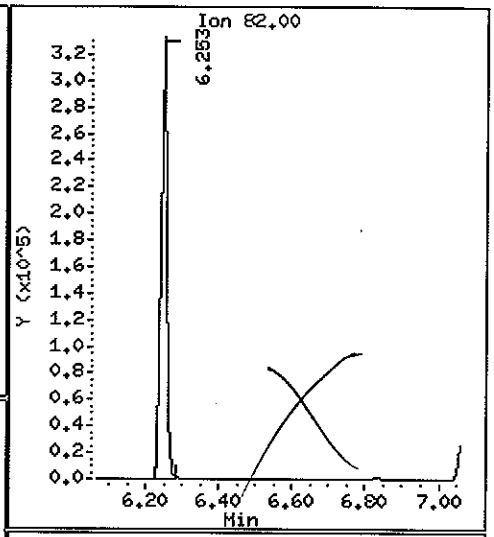
Column phase: Xti 5 x .5 u

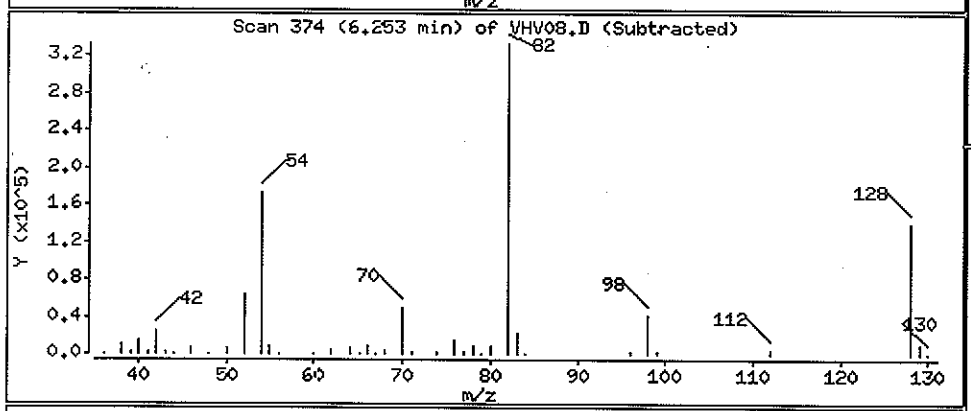
Column diameter: 0.25

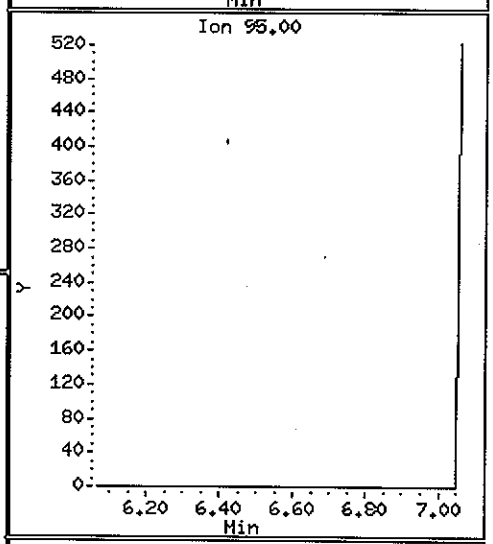
21 Isophorone

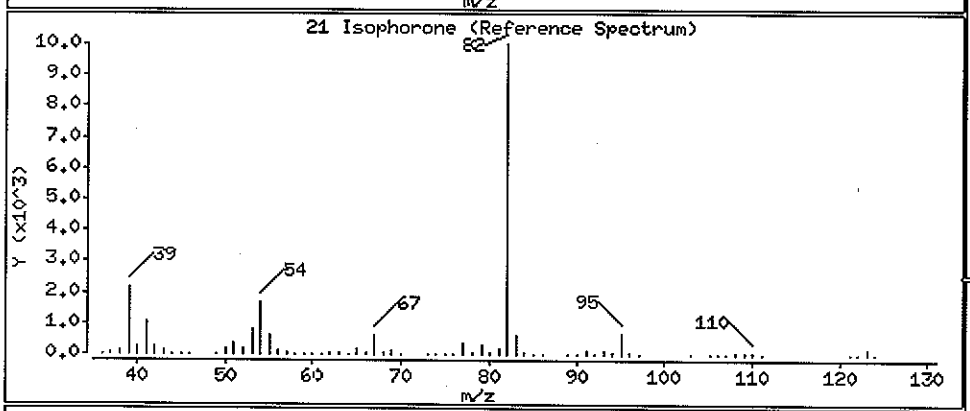
Concentration: 20.2024 ug/L

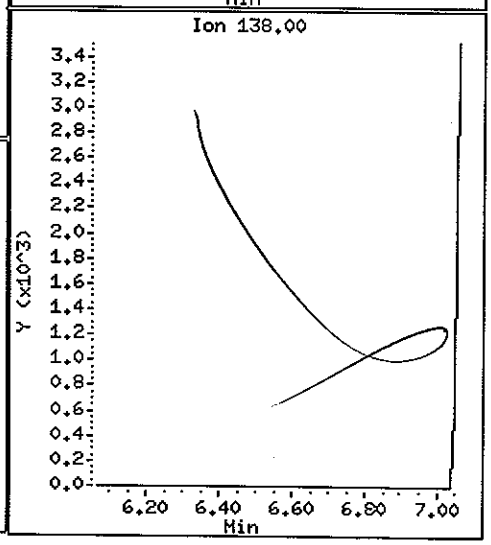


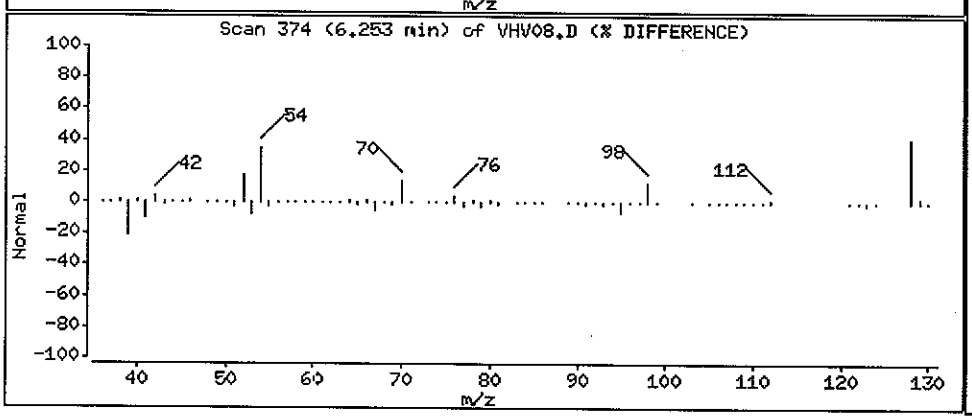












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

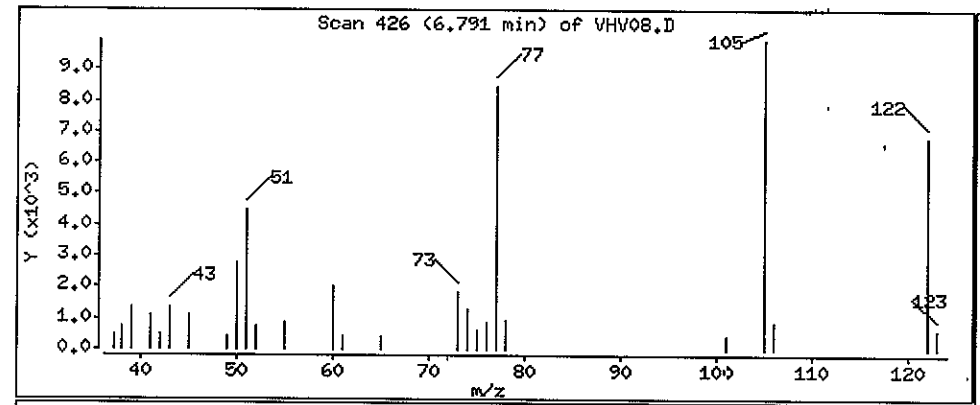
Operator: BVD

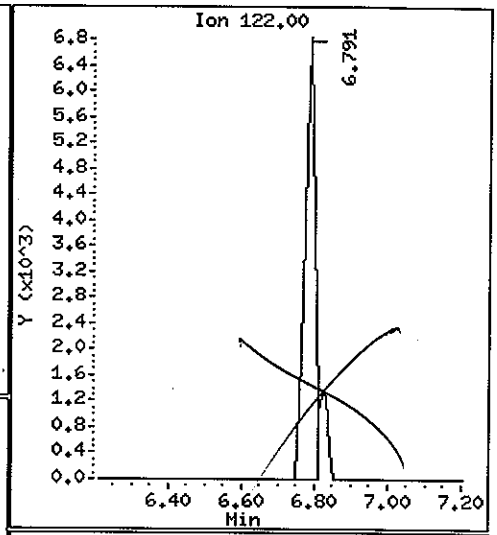
Column phase: Xti 5 x .5 u

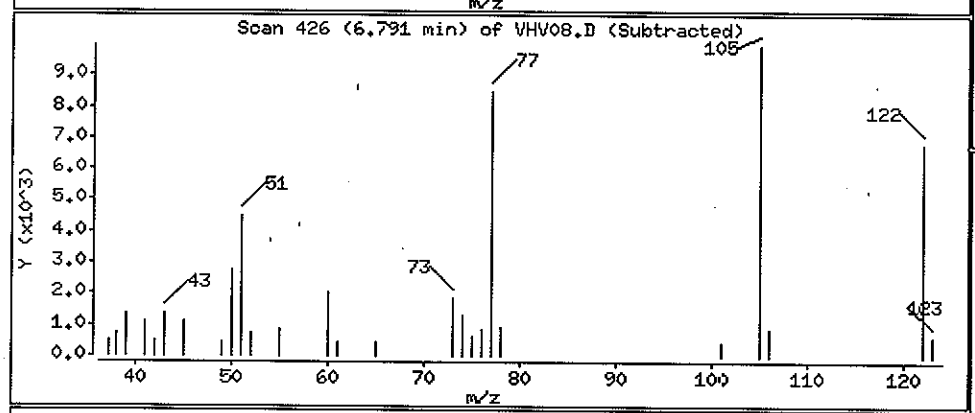
Column diameter: 0.25

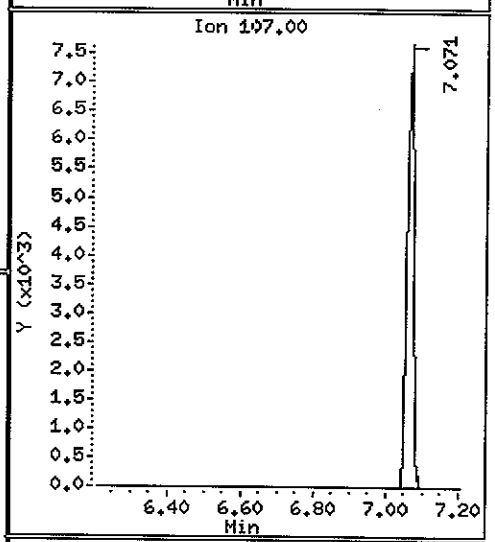
22 2,4-Dimethylphenol

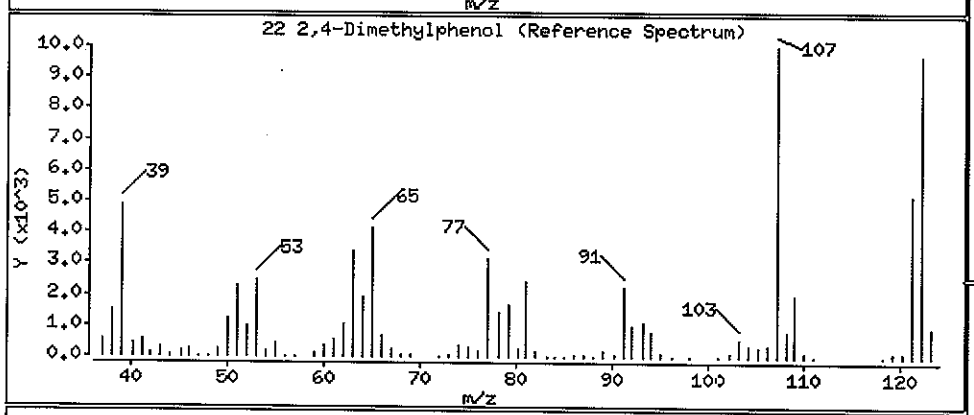
Concentration: 2.2201 ug/L

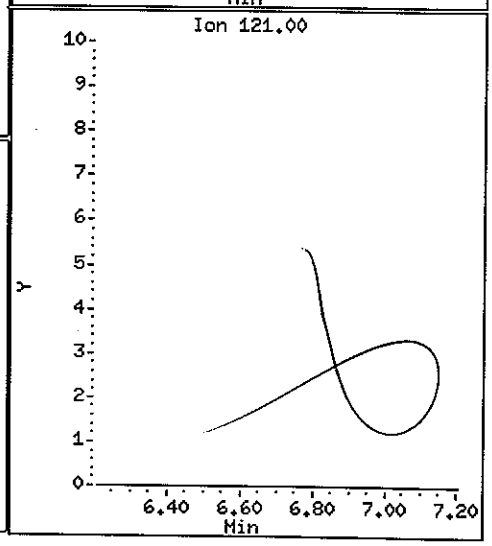


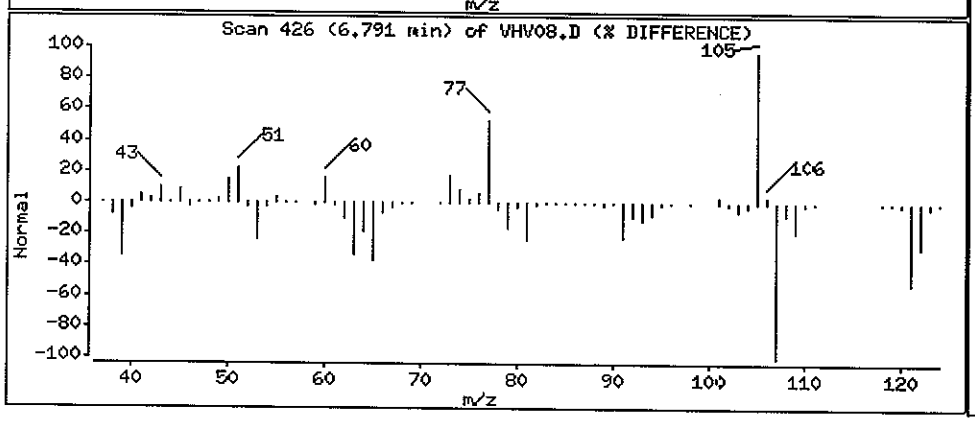












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

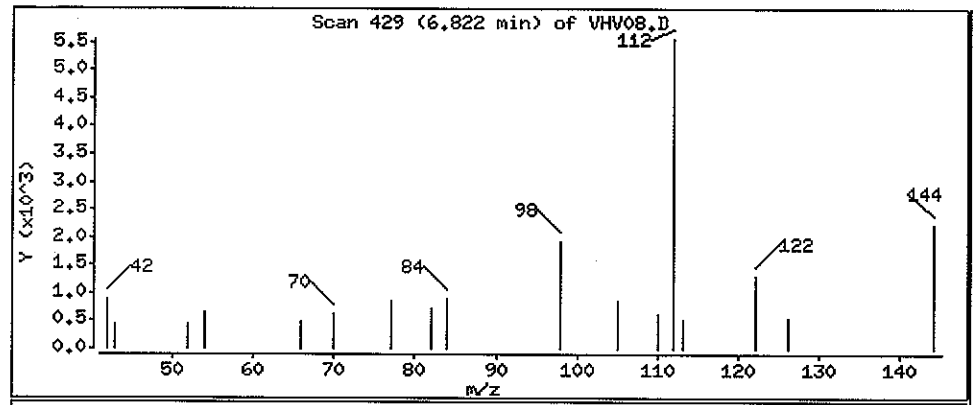
Operator: BVD

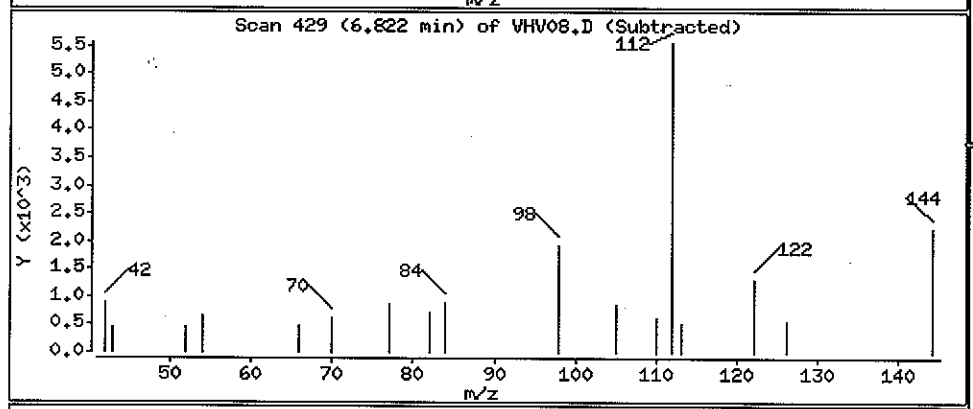
Column phase: Xti 5 x .5 u

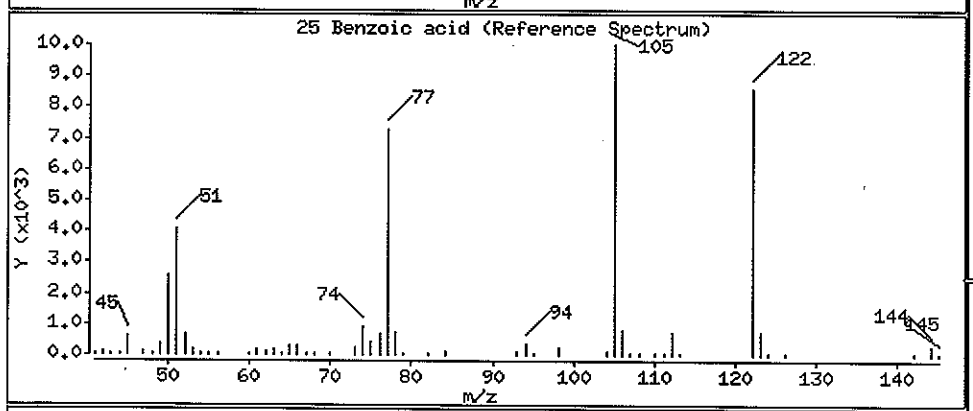
Column diameter: 0.25

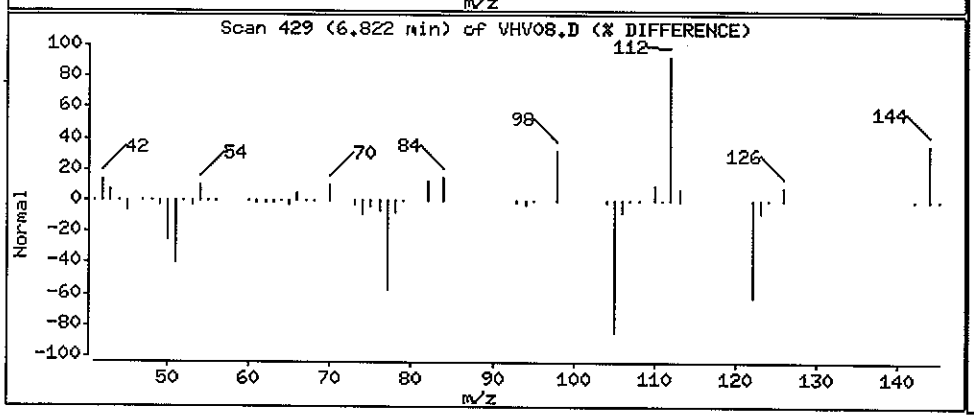
25 Benzoic acid

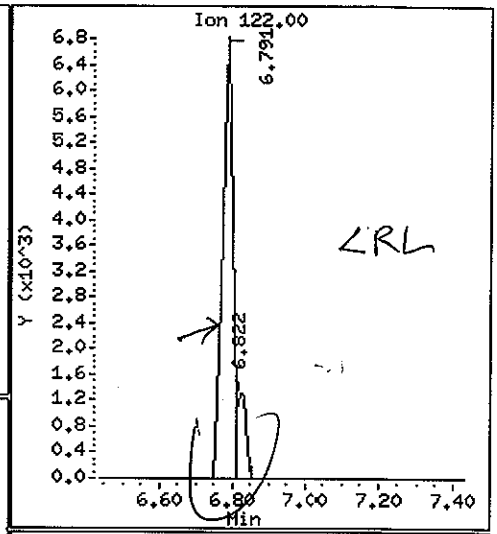
Concentration: 7.4637 ug/L

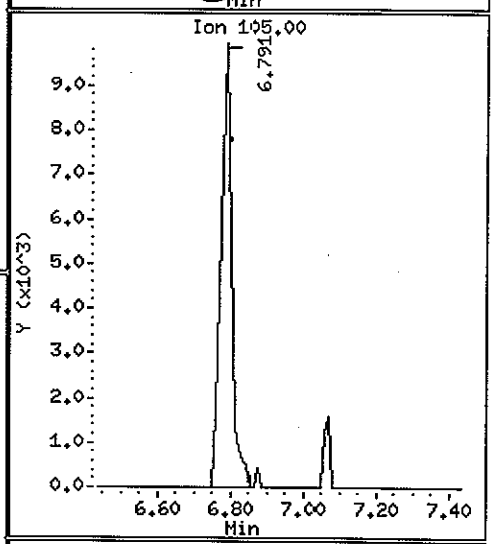


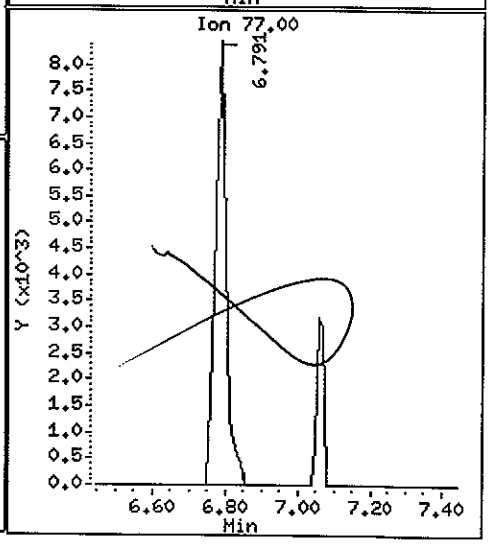












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

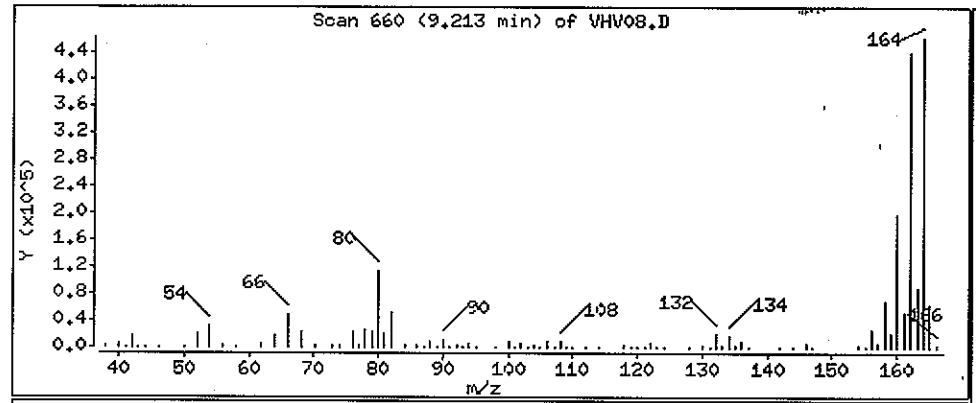
Operator: BVD

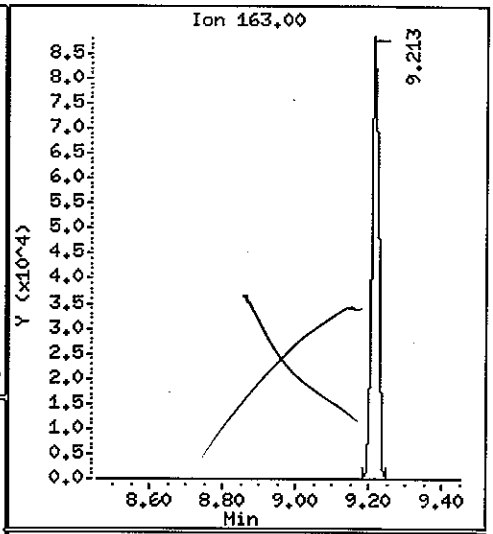
Column phase: Xti 5 x .5 u

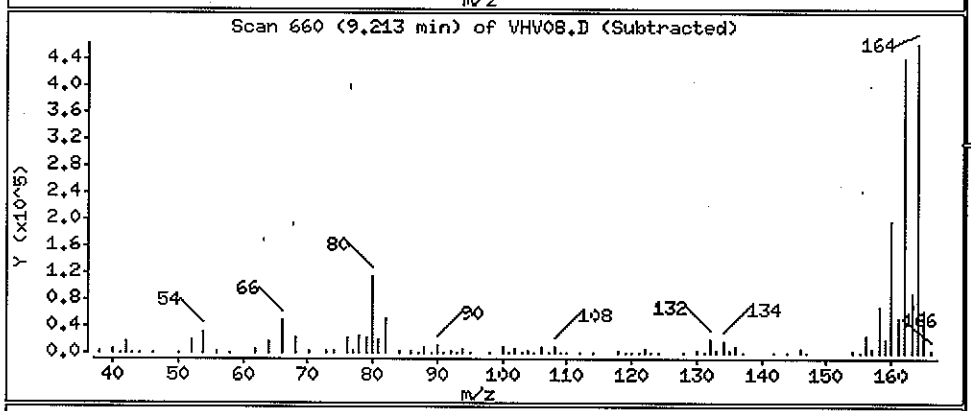
Column diameter: 0.25

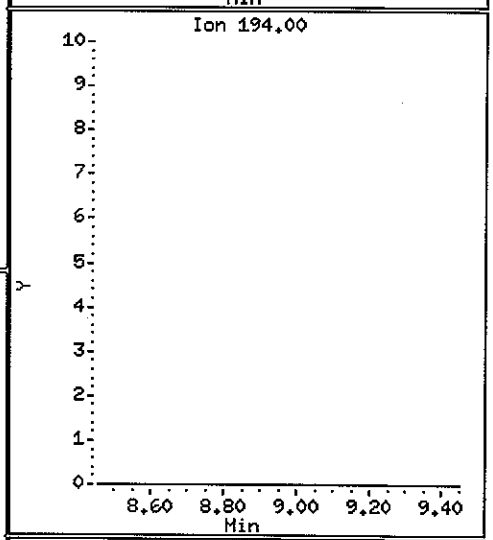
40 Dimethylphthalate

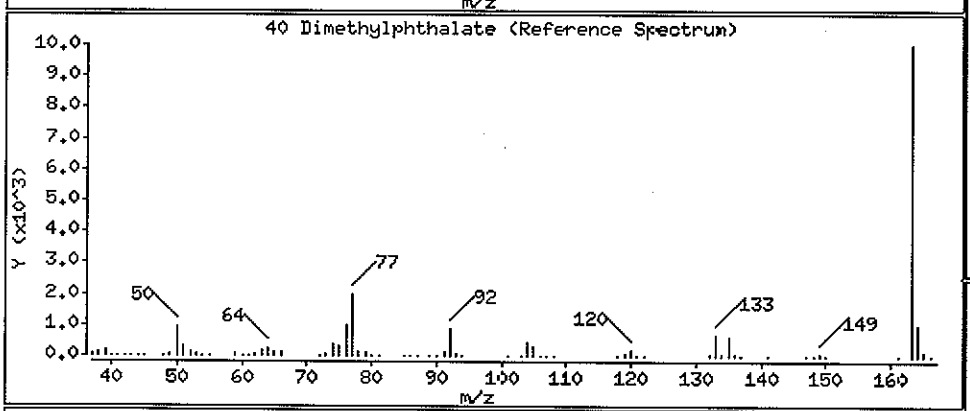
Concentration: 6.3014 ug/L

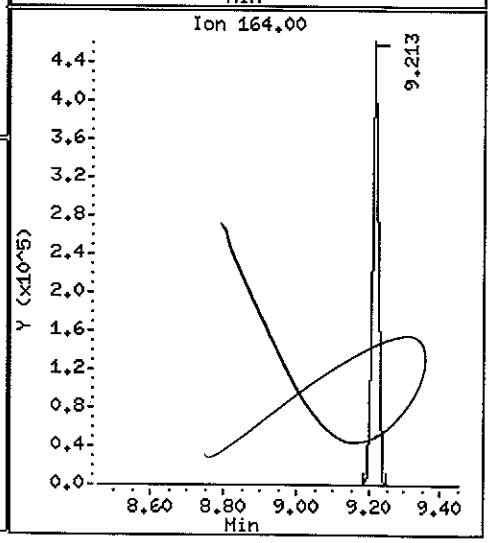


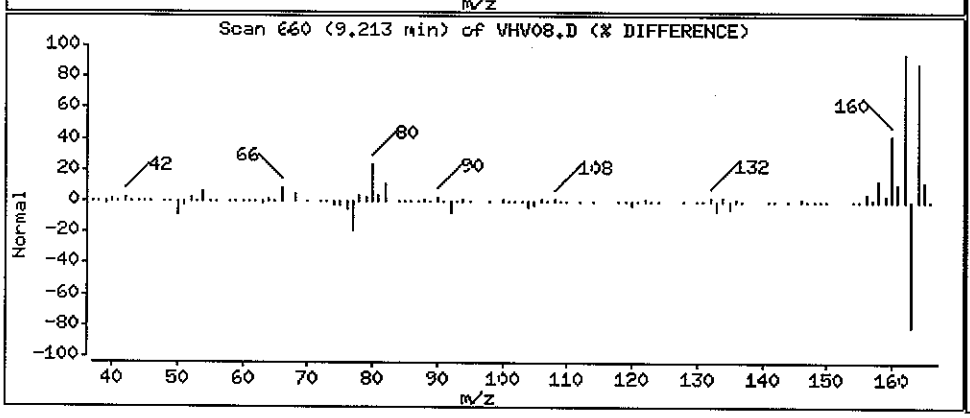












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

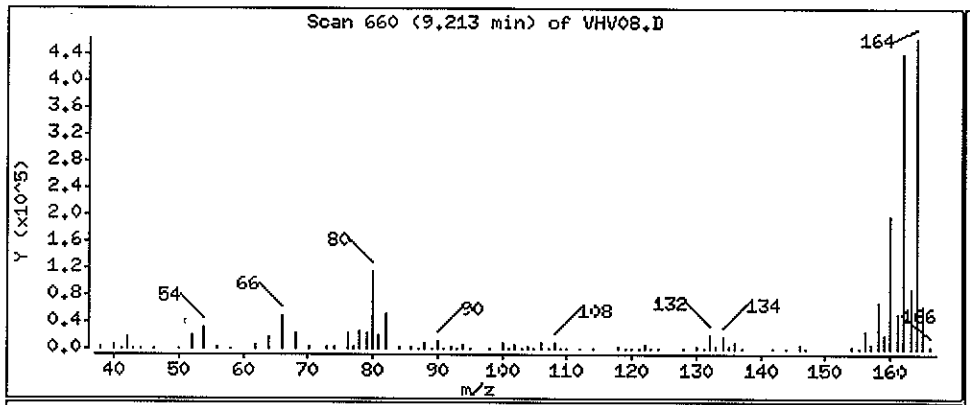
Operator: BVD

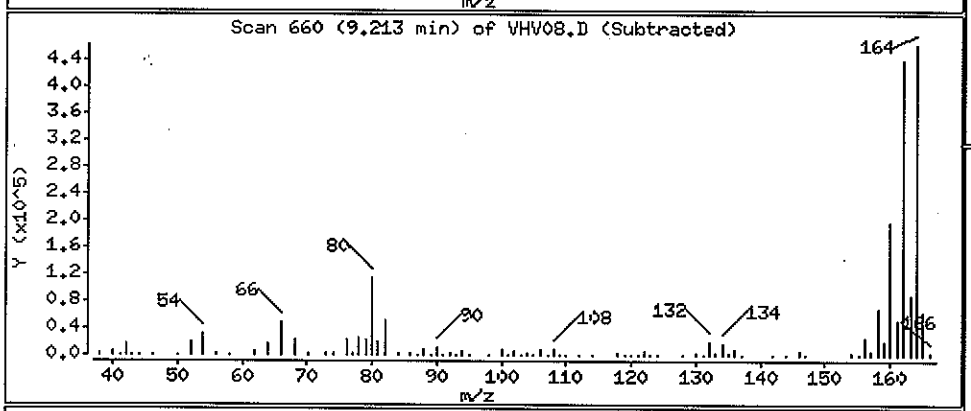
Column phase: Xti 5 x .5 u

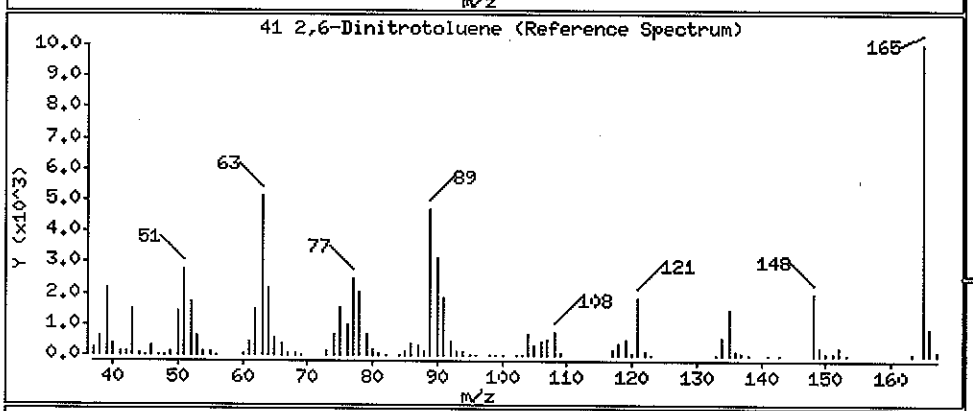
Column diameter: 0.25

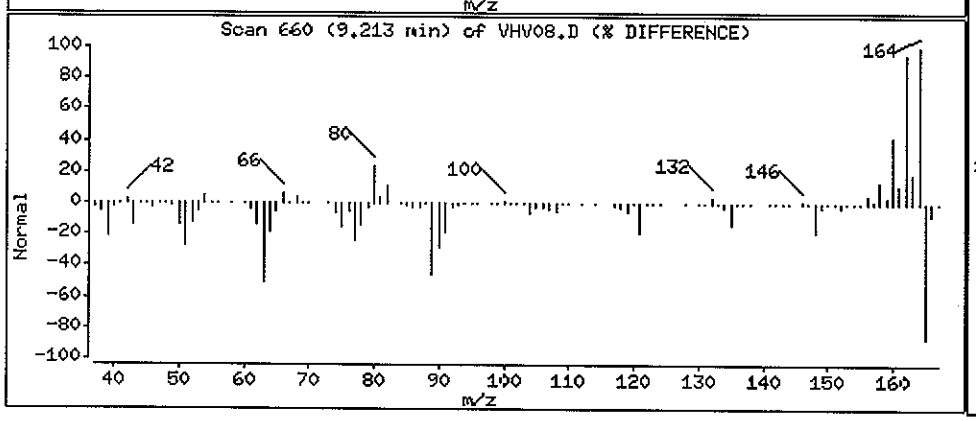
41 2,6-Dinitrotoluene

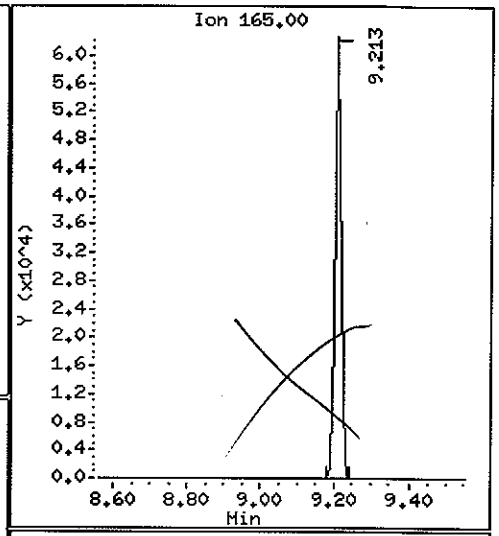
Concentration: 15.7522 ug/L

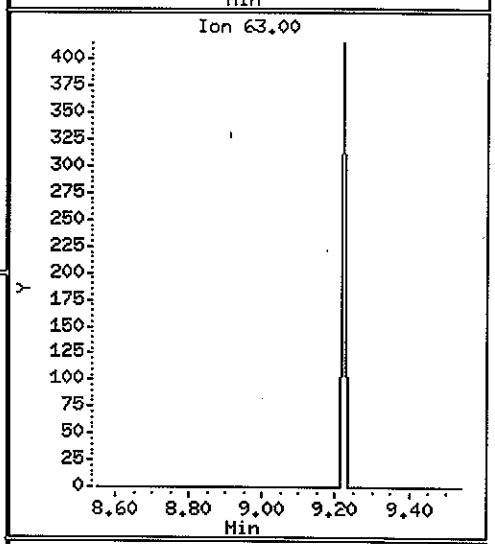


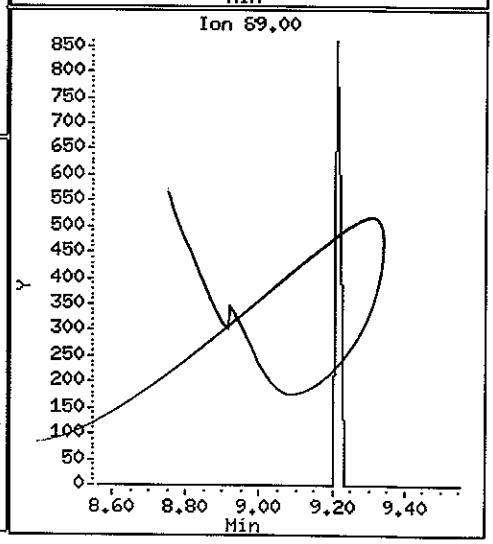












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

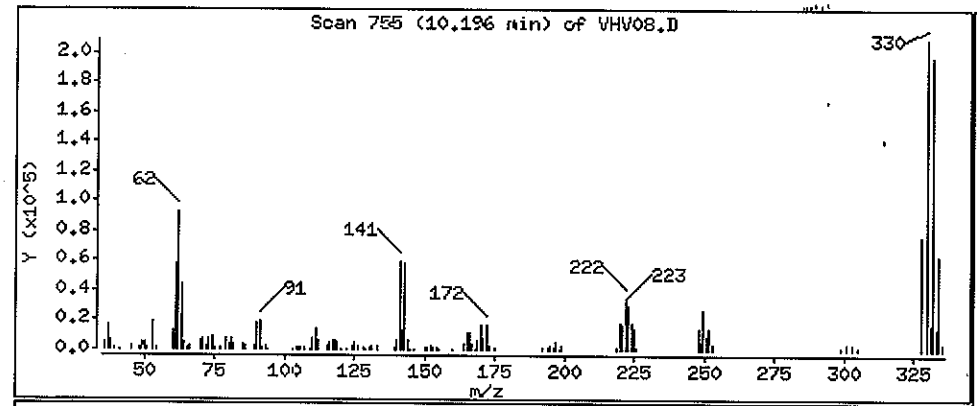
Operator: BVD

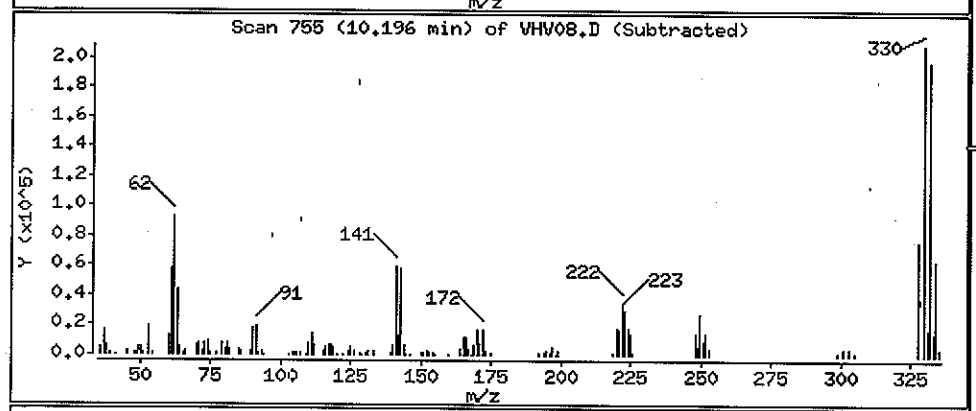
Column phase: Xti 5 x .5 u

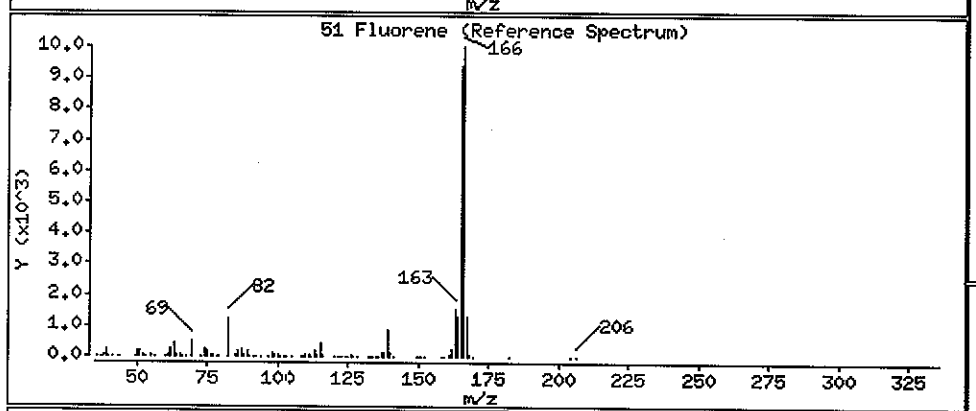
Column diameter: 0.25

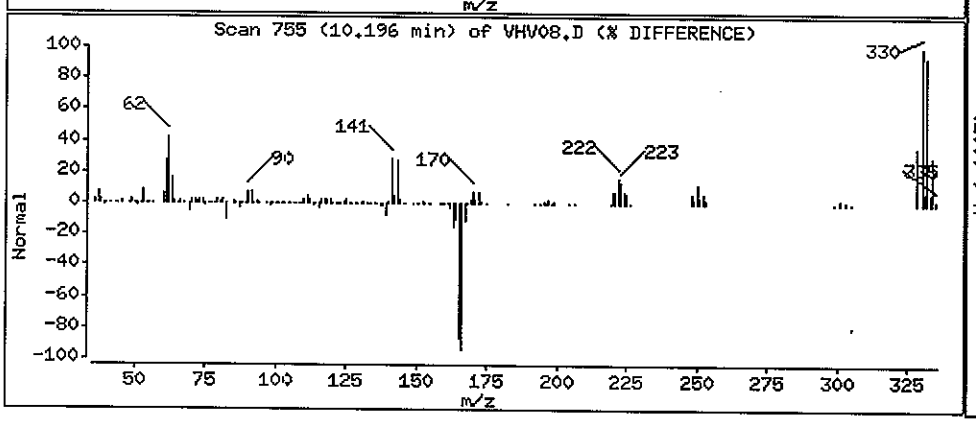
51 Fluorene

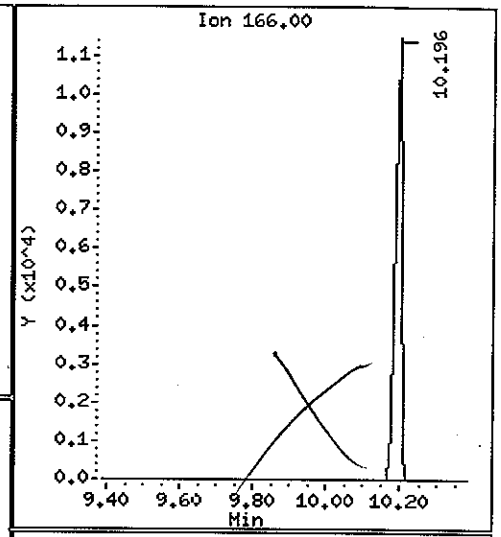
Concentration: 0.7498 ug/L

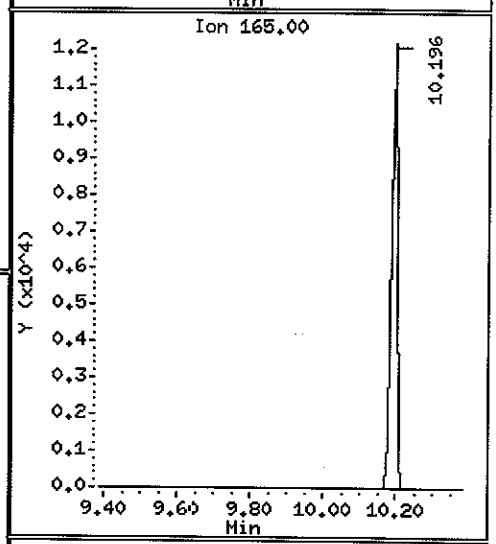


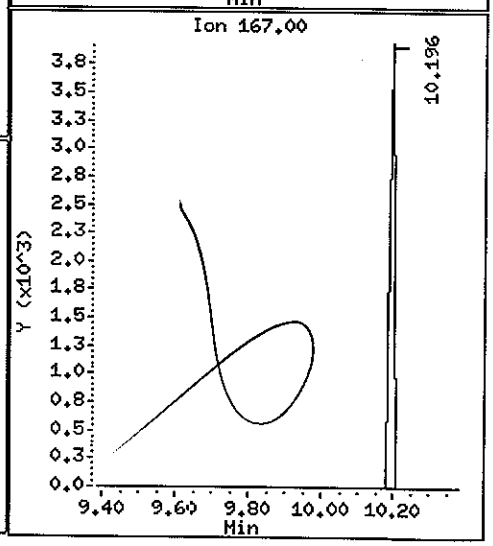












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

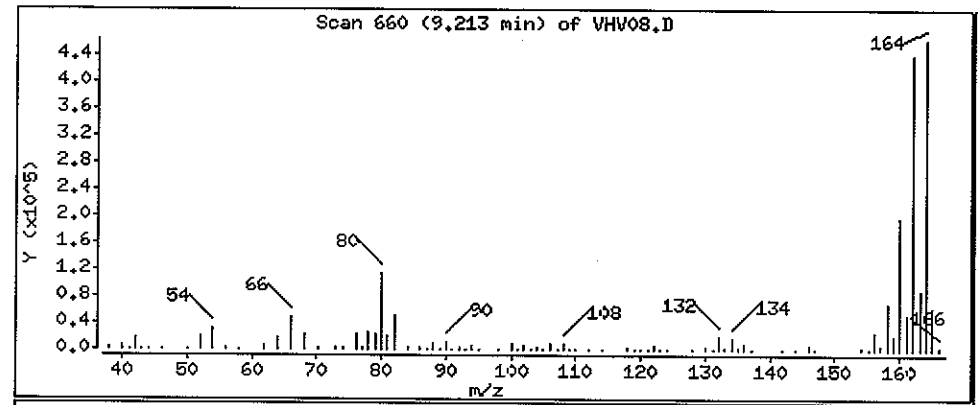
Operator: BVD

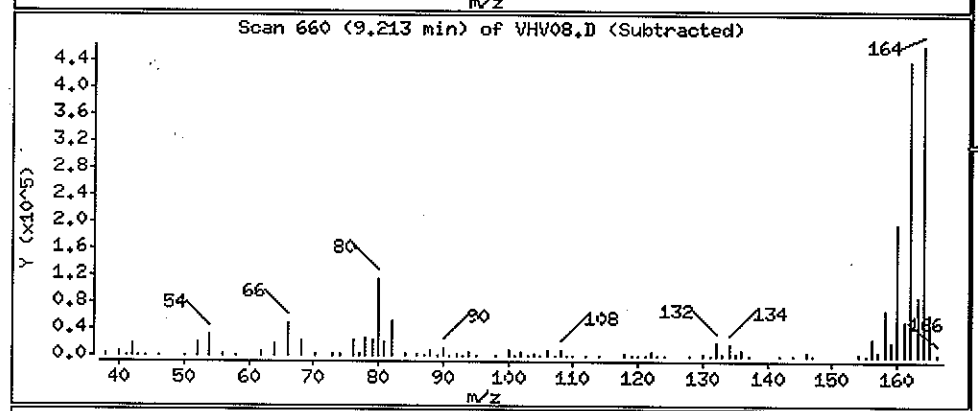
Column phase: Xti 5 x .5 u

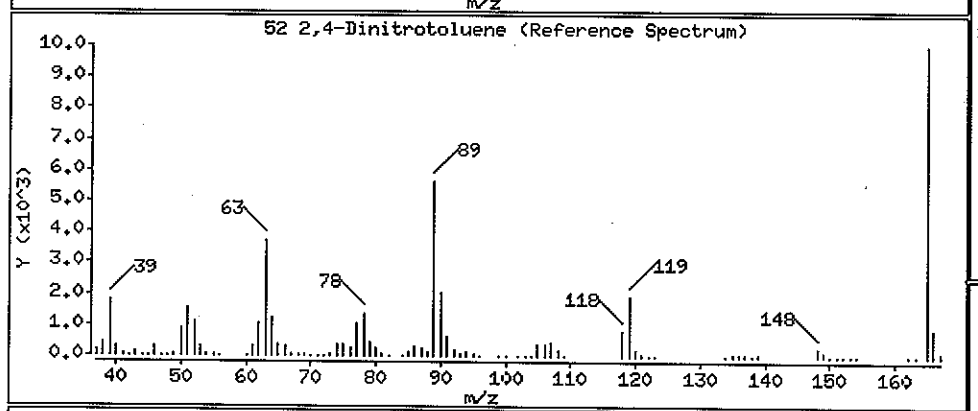
Column diameter: 0.25

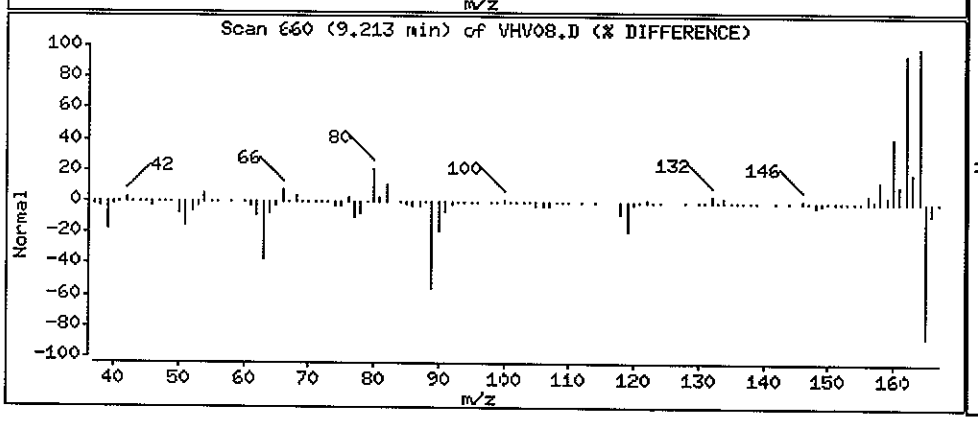
52 2,4-Dinitrotoluene

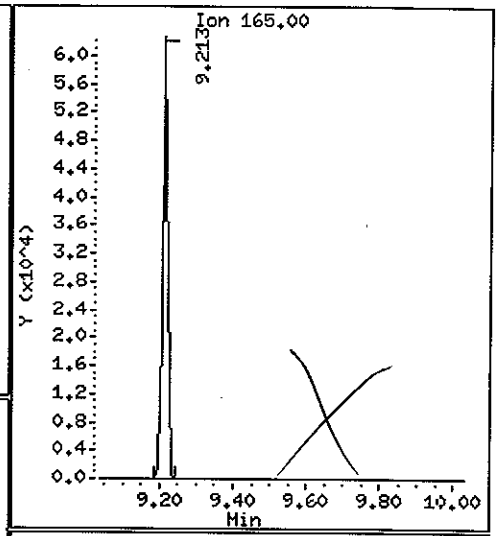
Concentration: 12.7348 ug/L

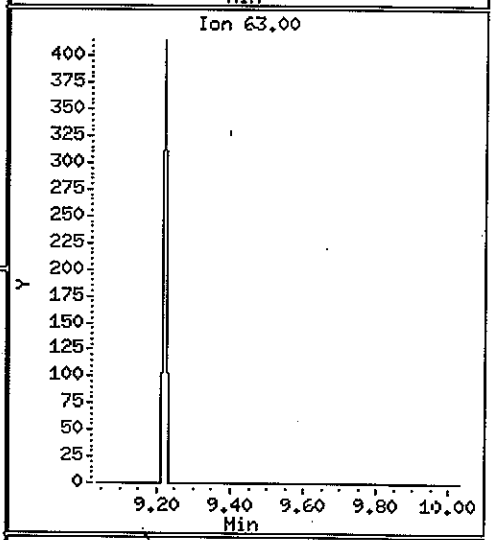


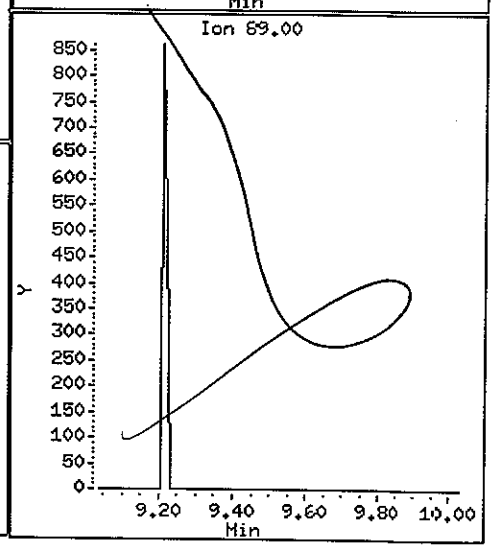












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

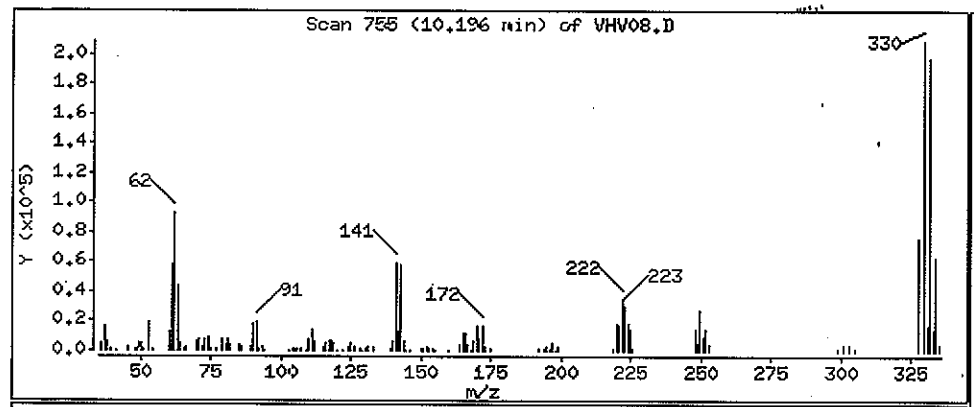
Operator: BVD

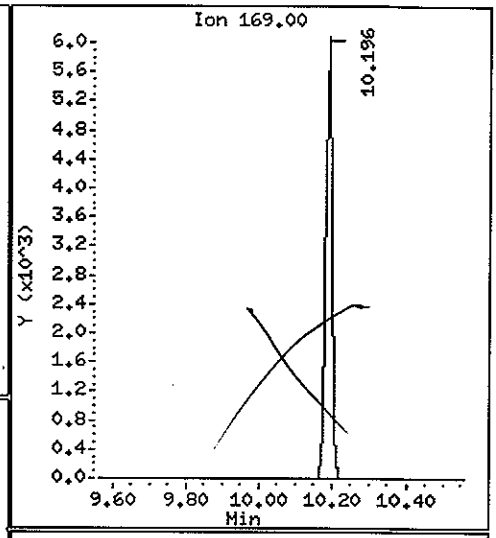
Column phase: Xti 5 x .5 u

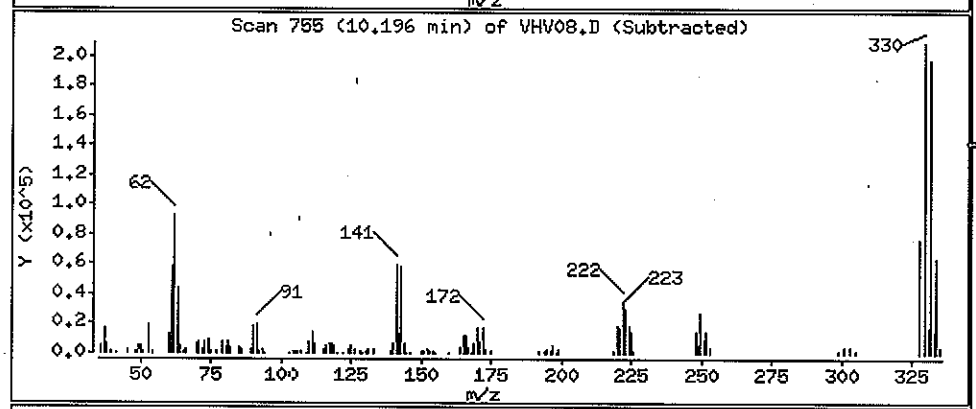
Column diameter: 0.25

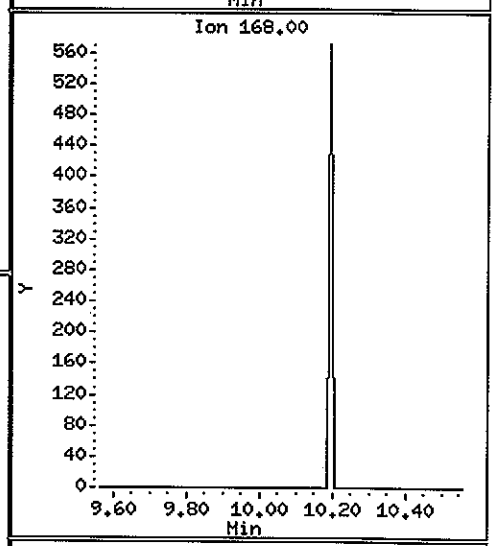
55 N-Nitrosodiphenylamine

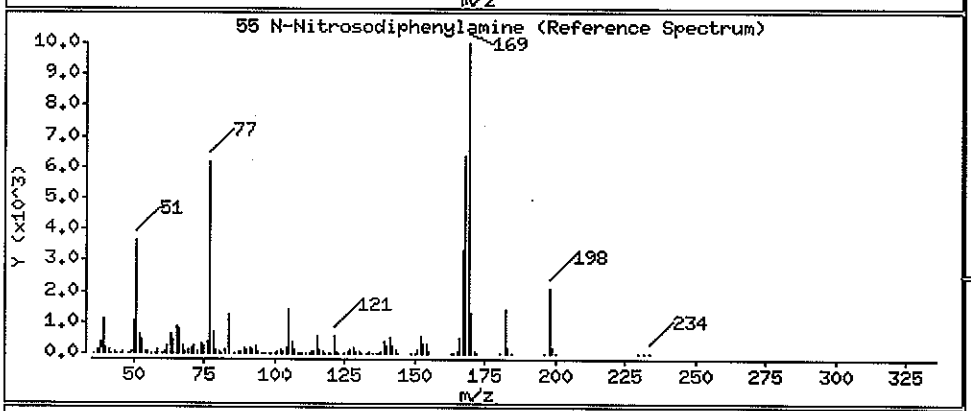
Concentration: 0.5597 ug/L

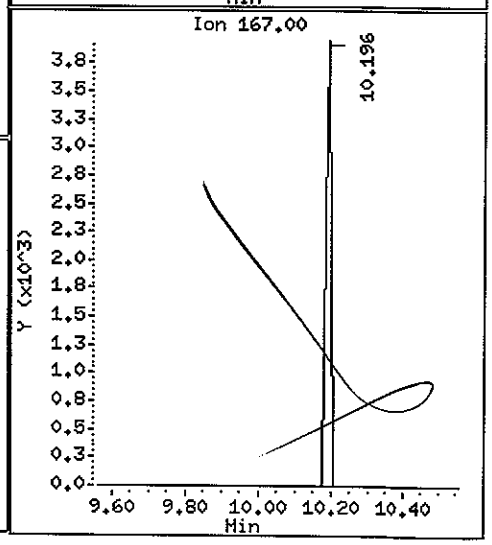


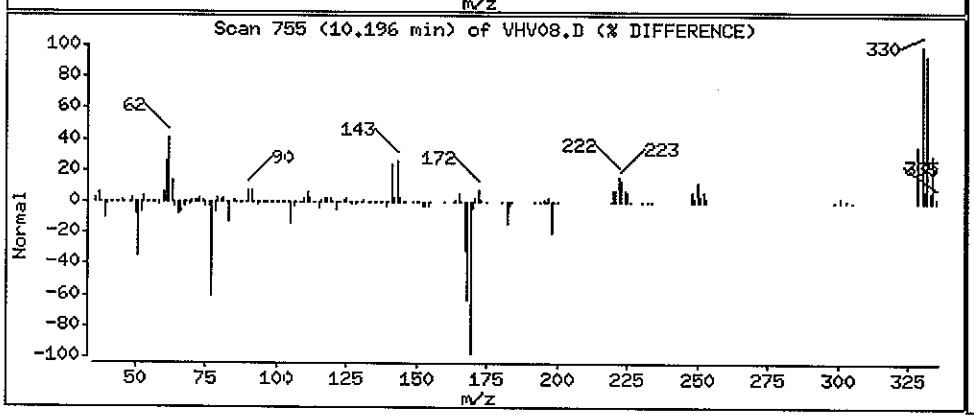












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

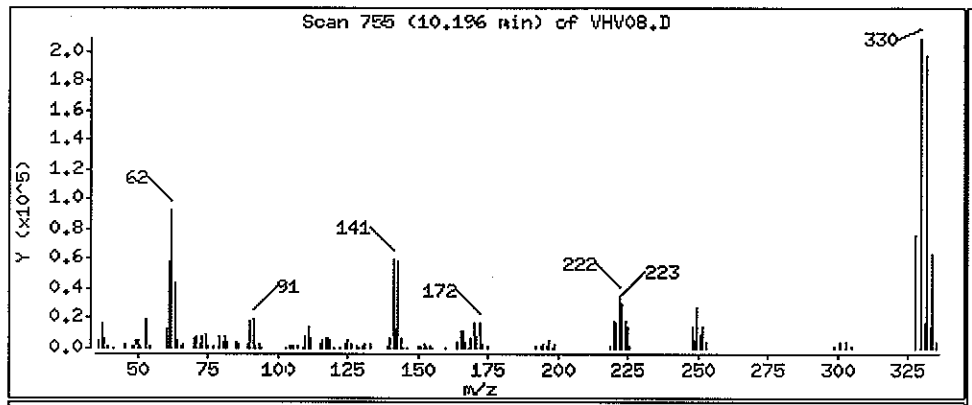
Operator: BVD

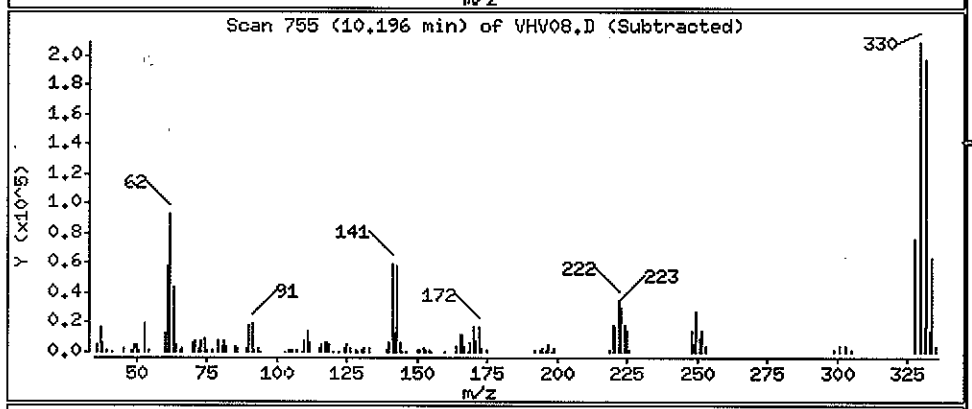
Column phase: Xti 5 x .5 u

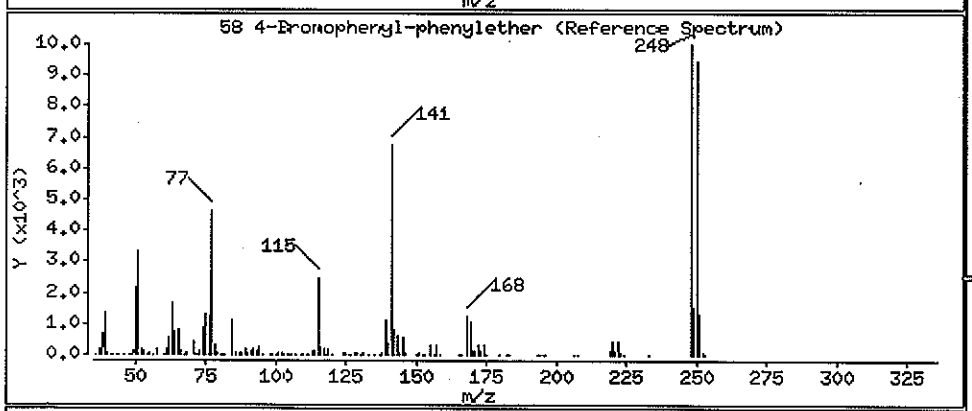
Column diameter: 0.25

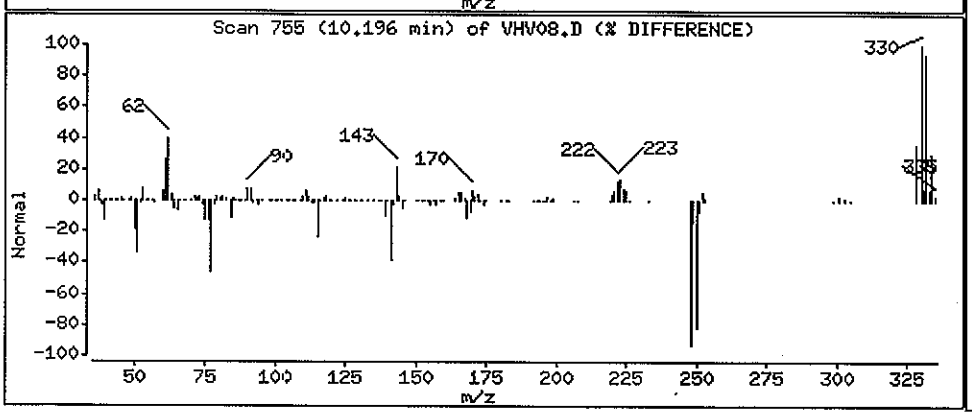
58 4-Bromophenyl-phenylether

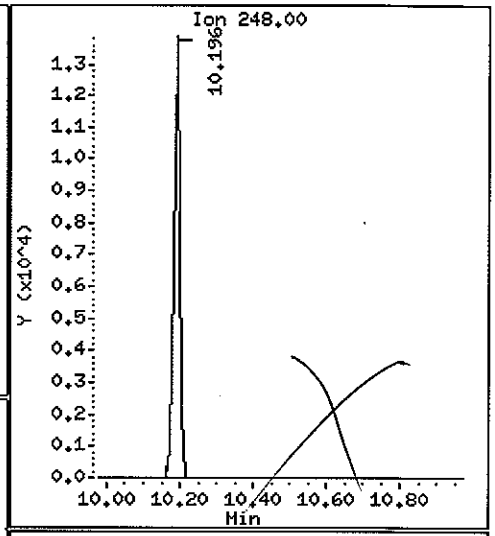
Concentration: 2.2830 ug/L

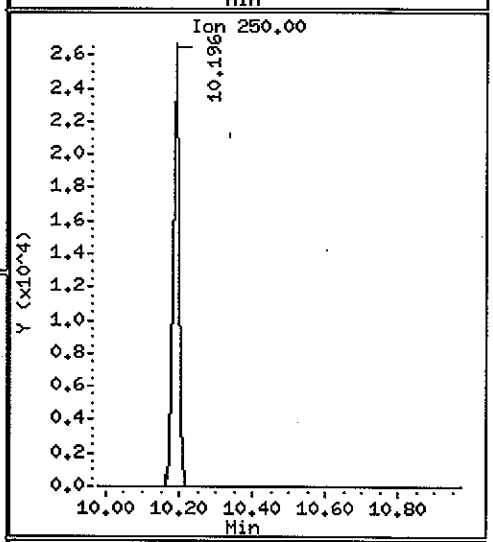


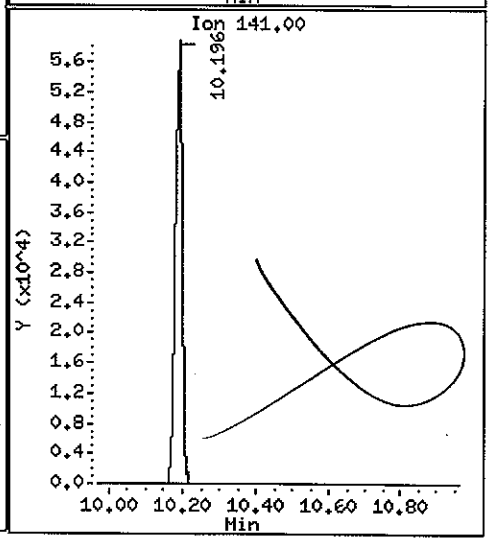












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

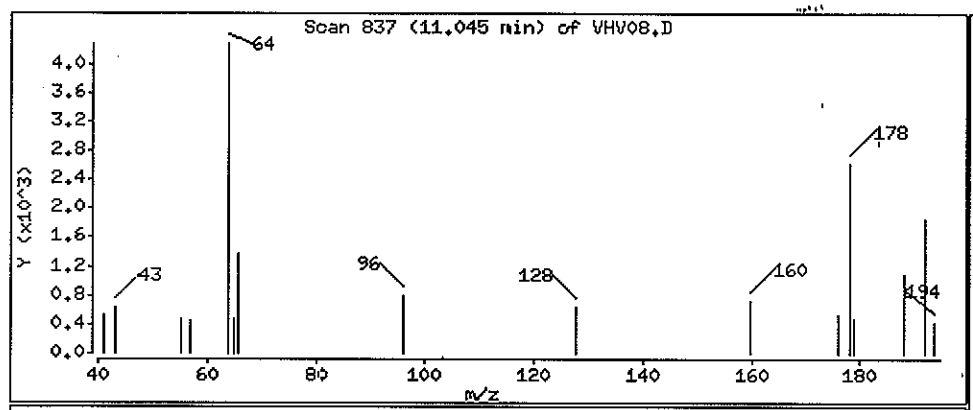
Operator: BVD

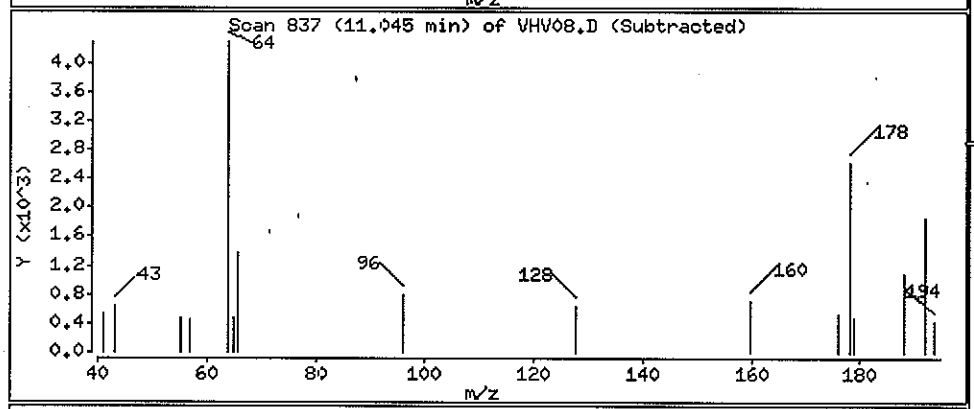
Column phase: Xti 5 x .5 u

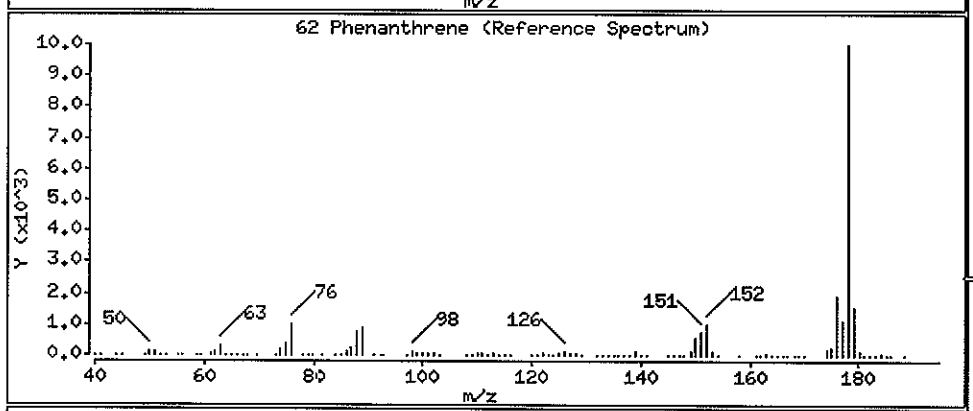
Column diameter: 0.25

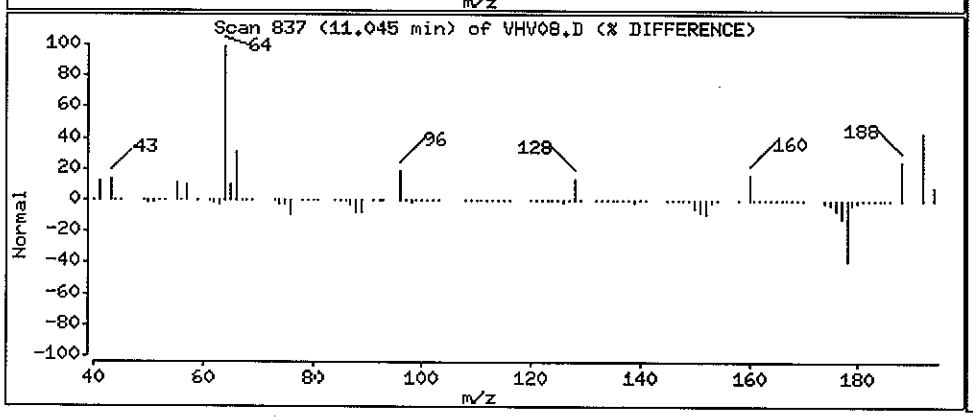
62 Phenanthrene

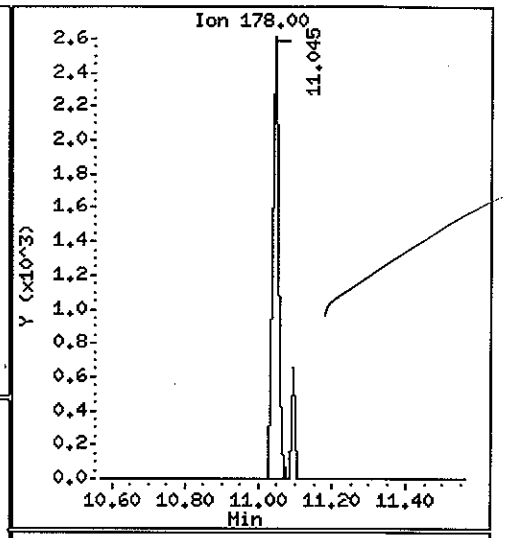
Concentration: 0.1015 ug/L

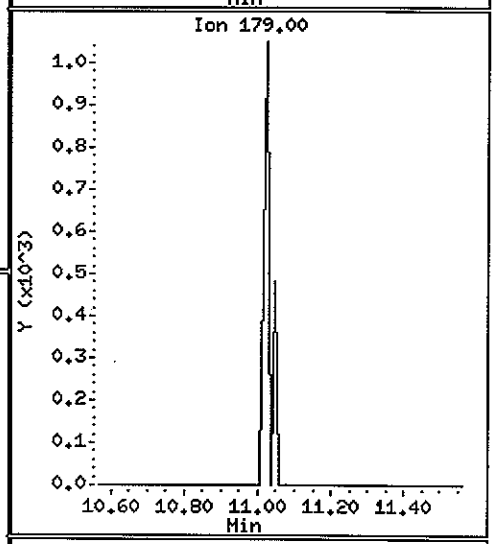


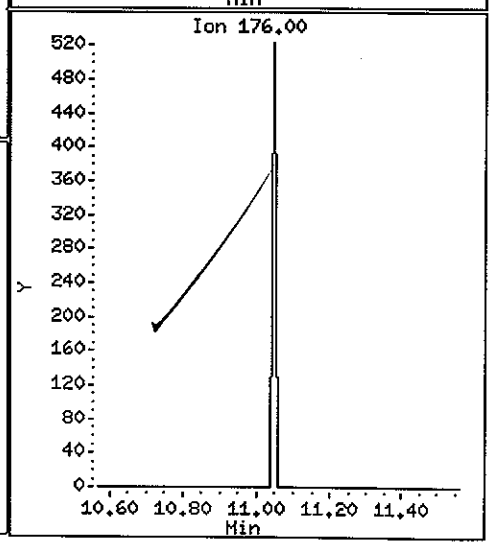












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

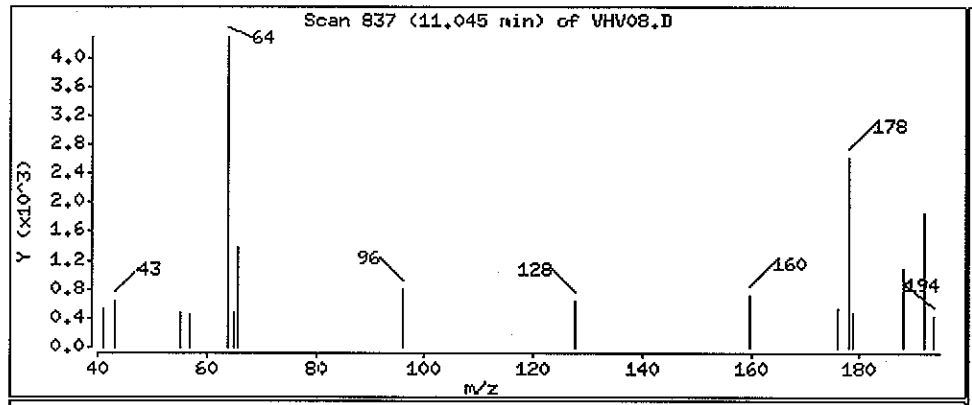
Operator: BVD

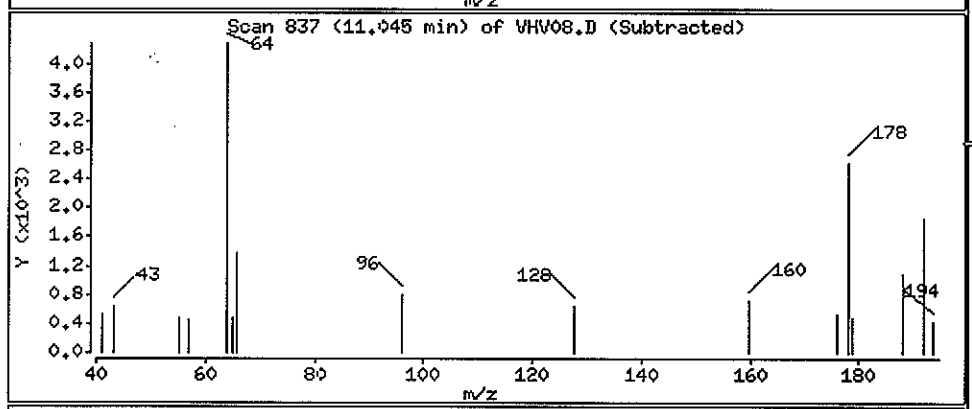
Column phase: Xti 5 x .5 u

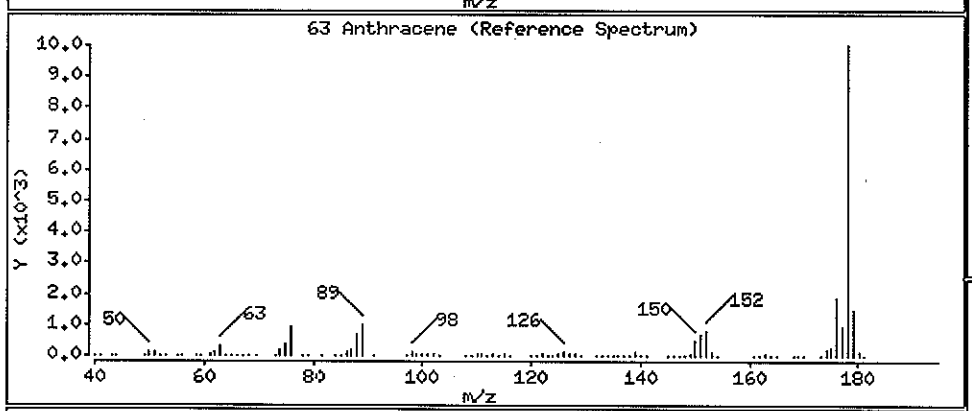
Column diameter: 0.25

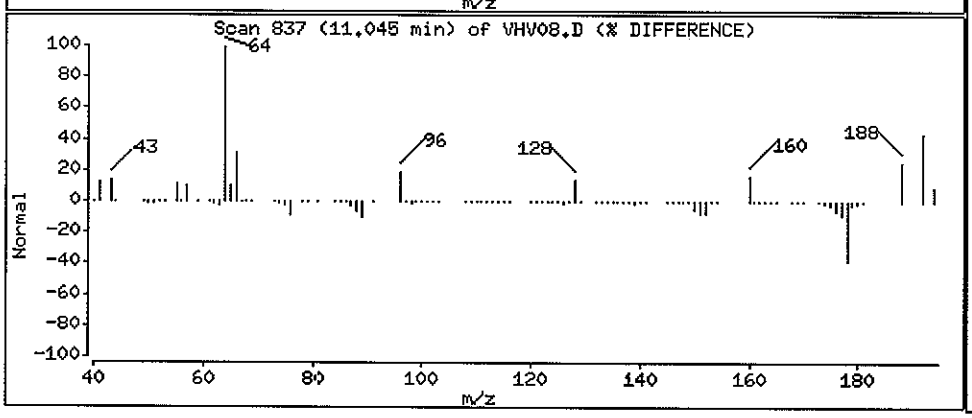
63 Anthracene

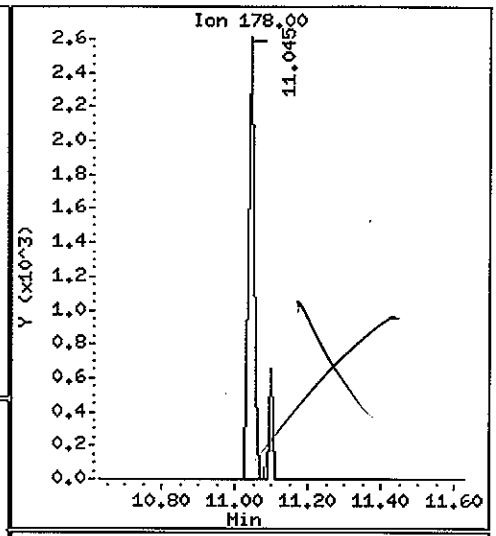
Concentration: 0.0992 ug/L

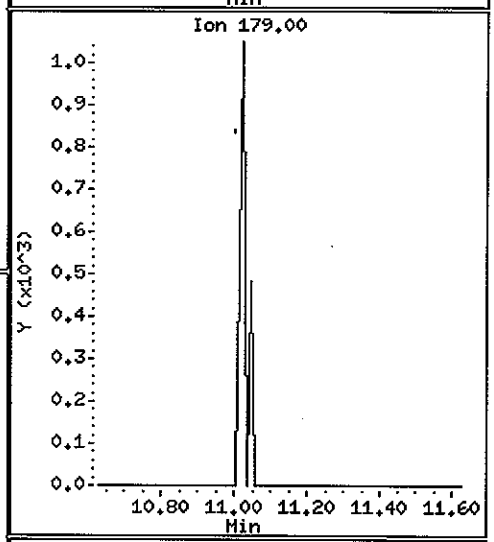


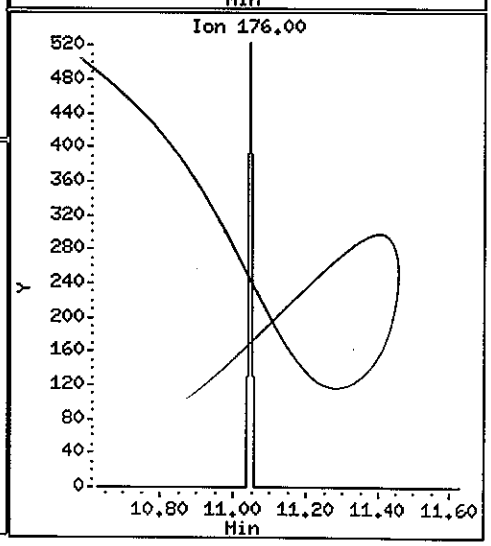












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

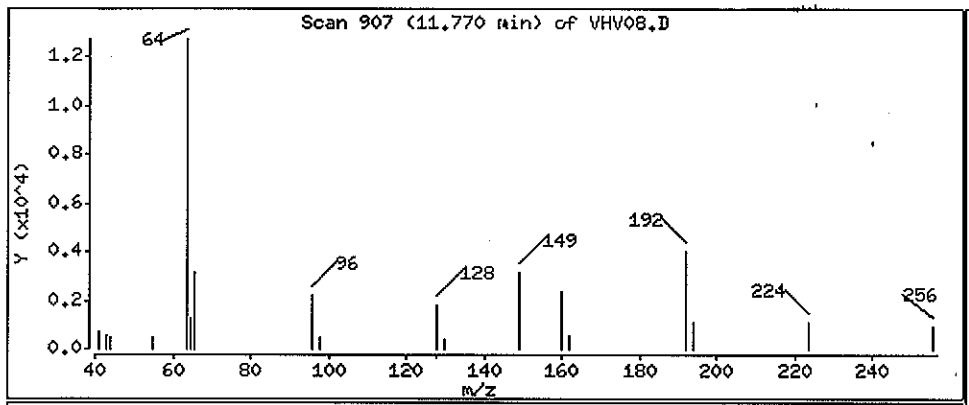
Operator: BVD

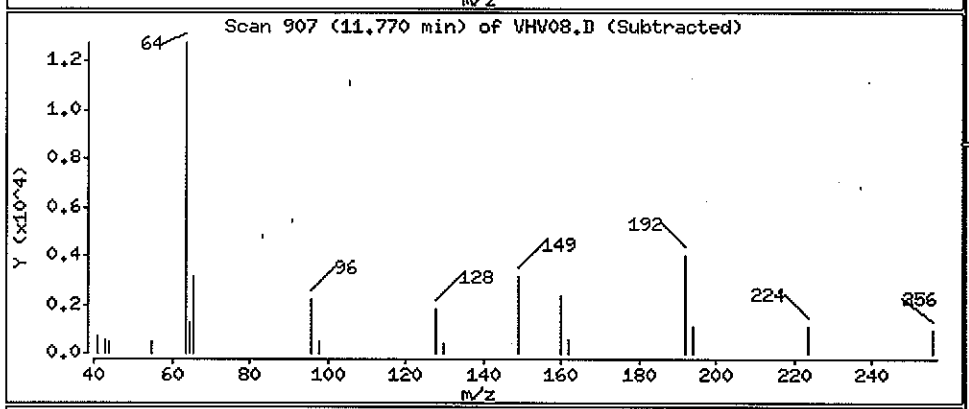
Column phase: Xti 5 x .5 u

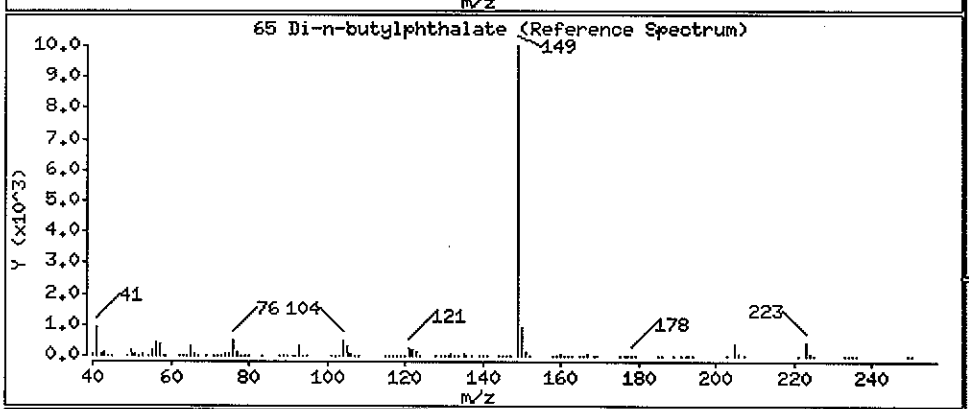
Column diameter: 0.25

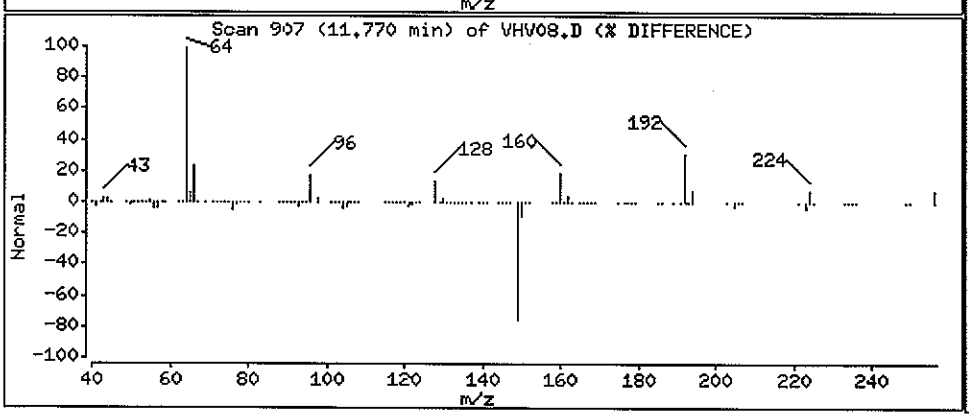
65 Di-n-butylphthalate

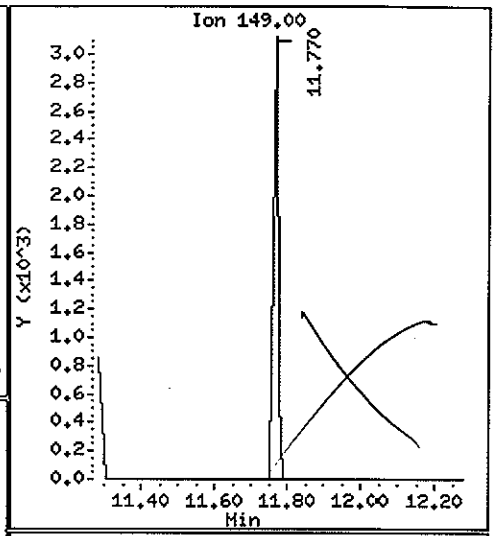
Concentration: 0.1089 ug/L

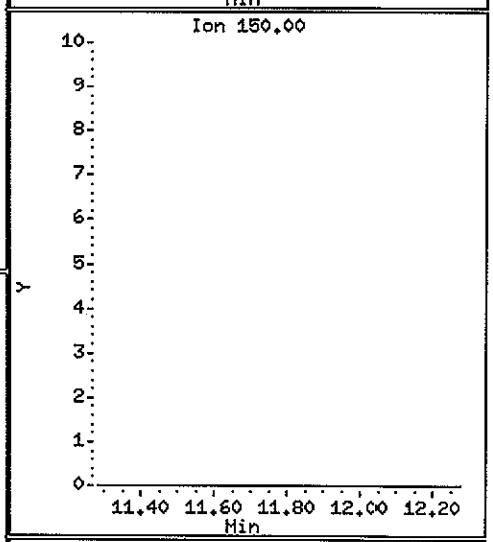


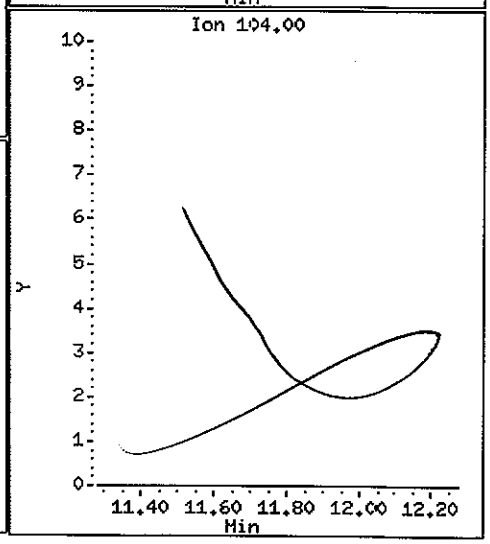












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

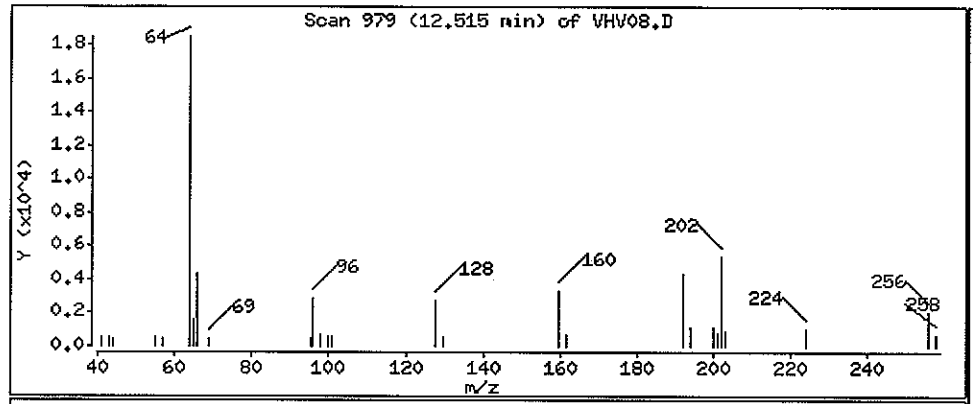
Operator: BVD

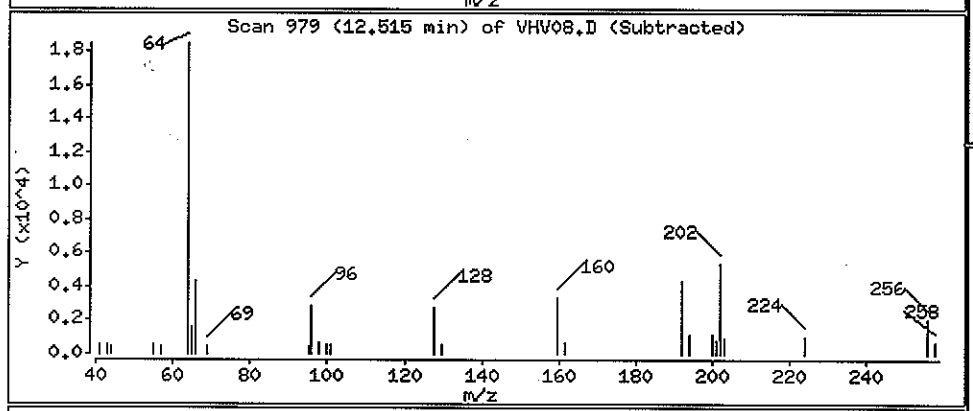
Column phase: Xti 5 x .5 u

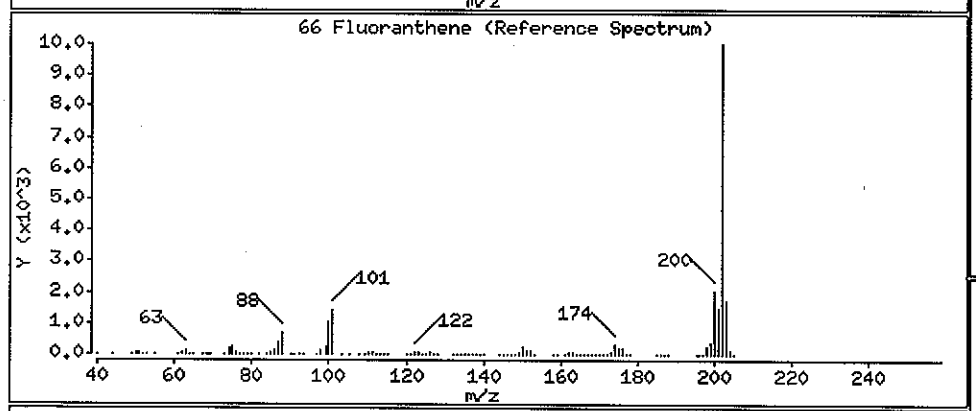
Column diameter: 0.25

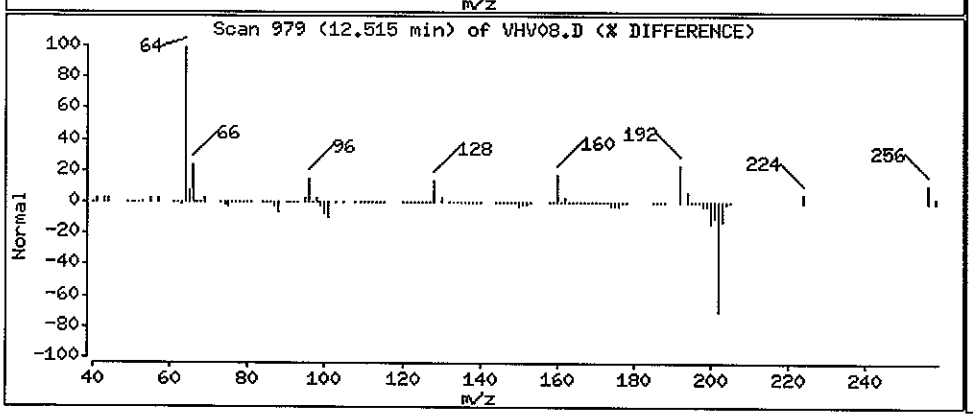
66 Fluoranthene

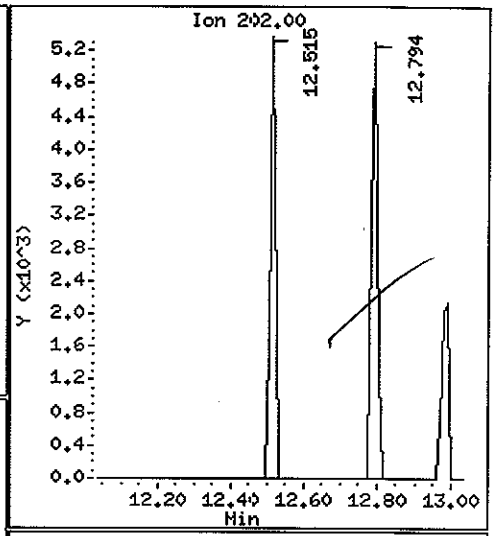
Concentration: 0.1768 ug/L

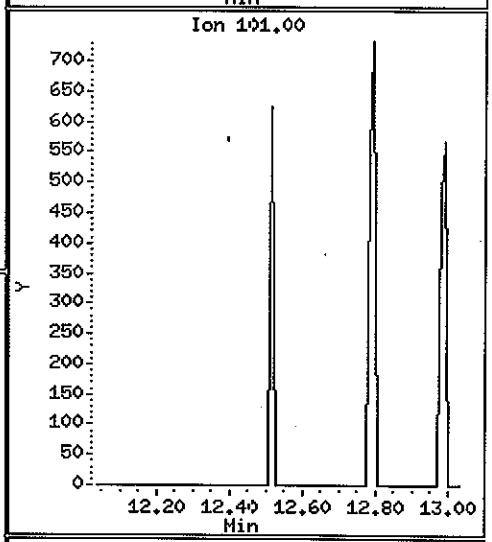


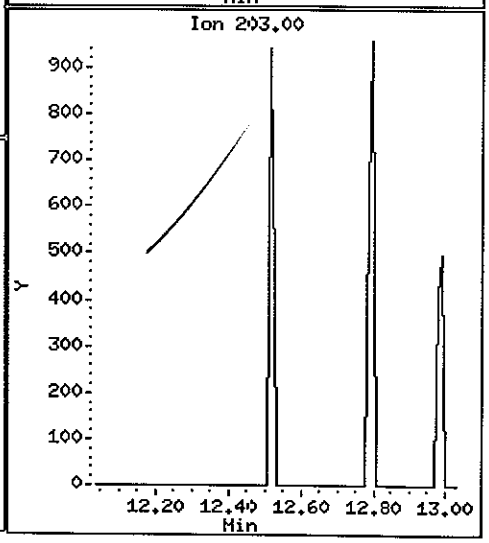












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

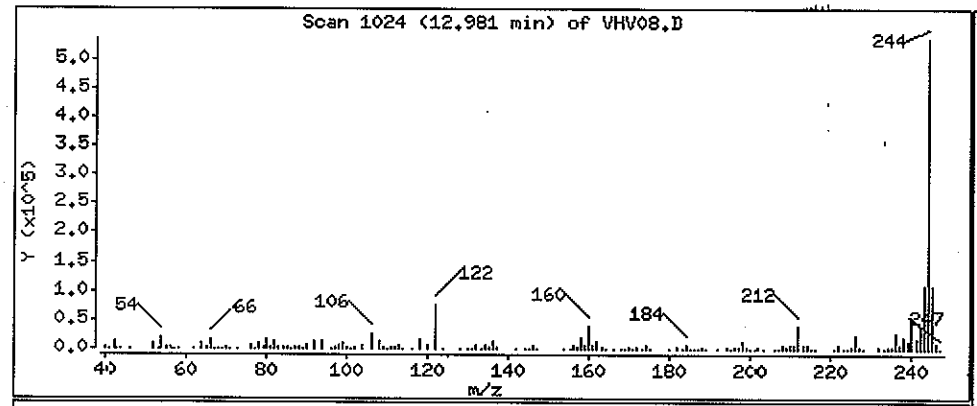
Operator: BVD

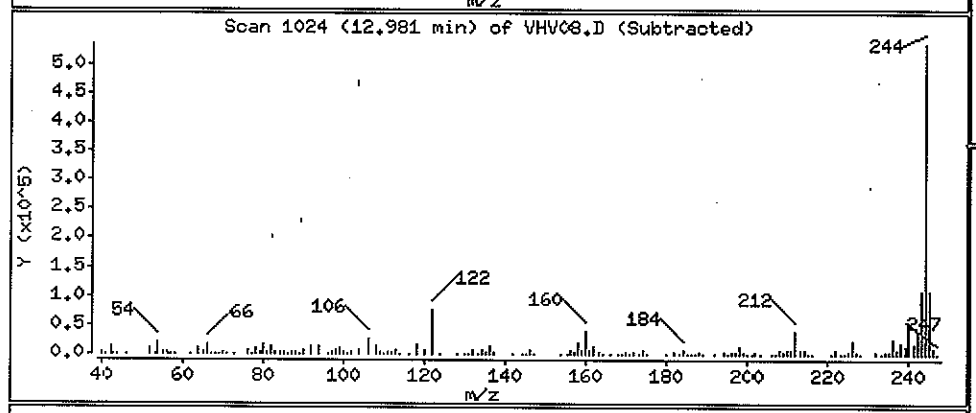
Column phase: Xti 5 x .5 u

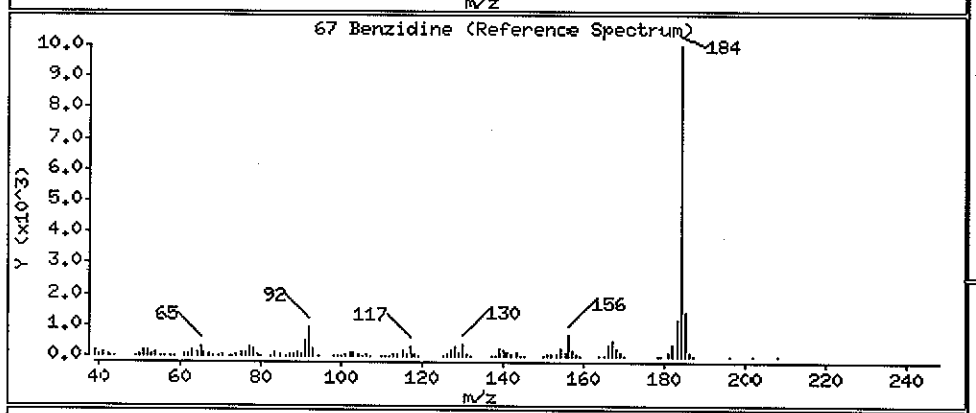
Column diameter: 0.25

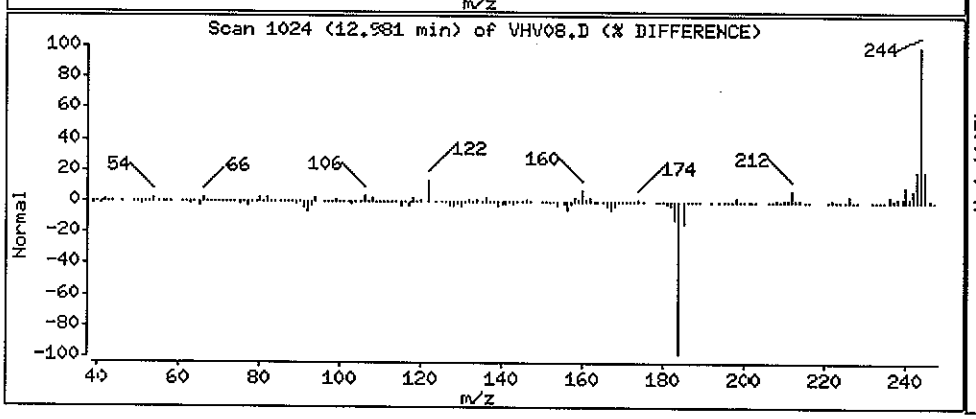
67 Benzidine

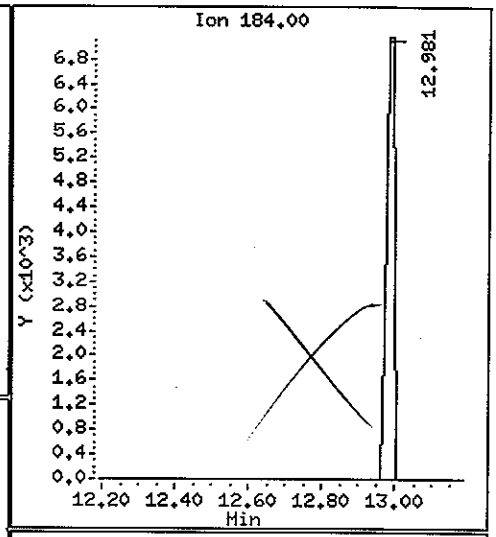
Concentration: 11.0635 ug/L

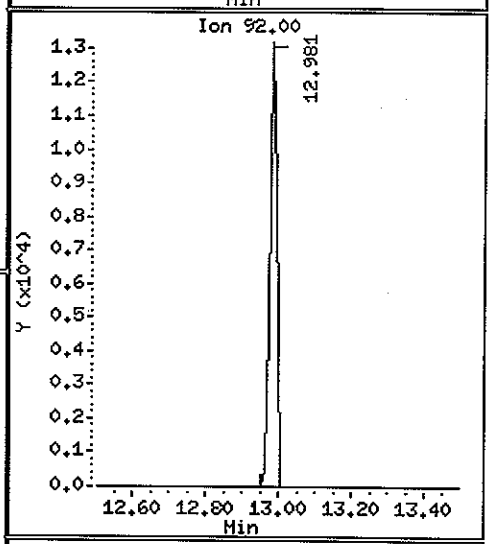


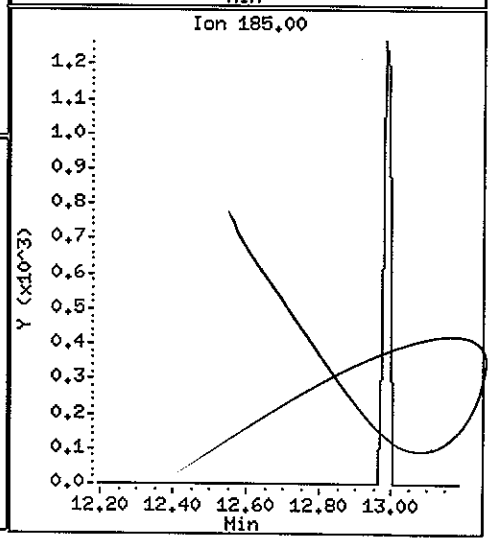












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

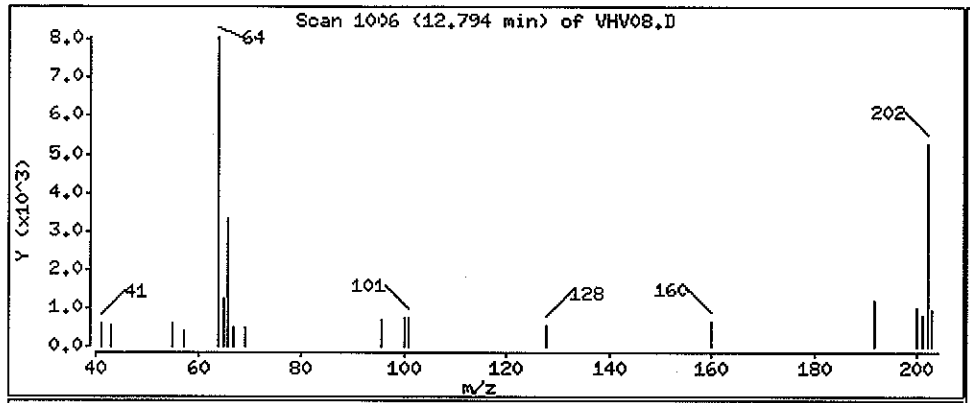
Operator: BVD

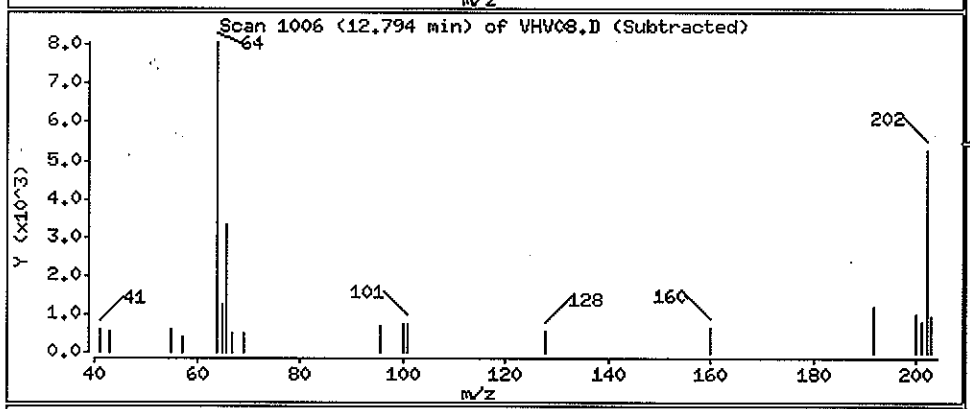
Column phase: Xti 5 x .5 u

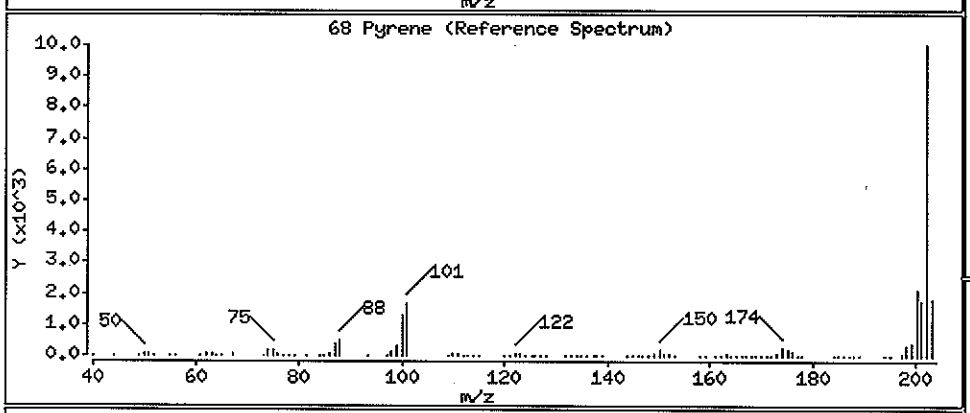
Column diameter: 0.25

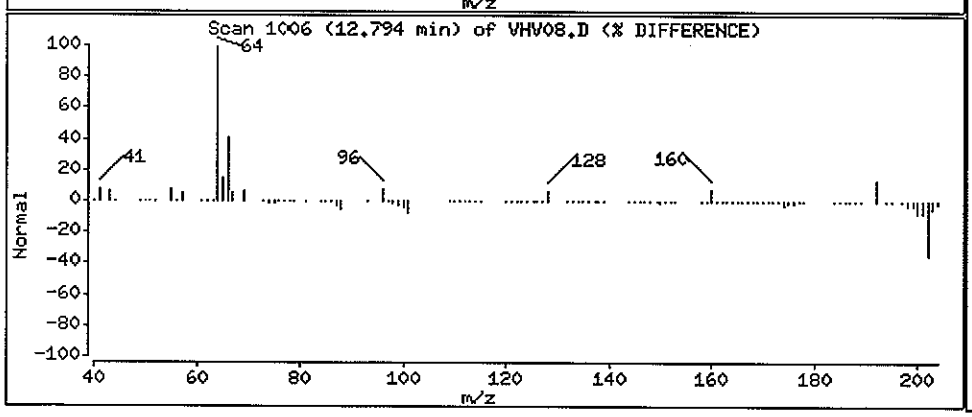
68 Pyrene

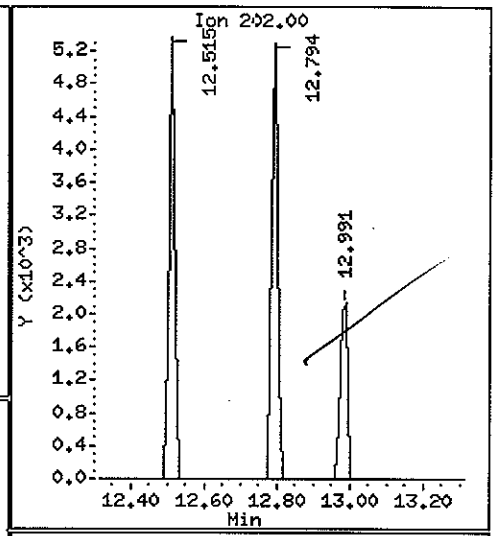
Concentration: 0.1884 ug/L

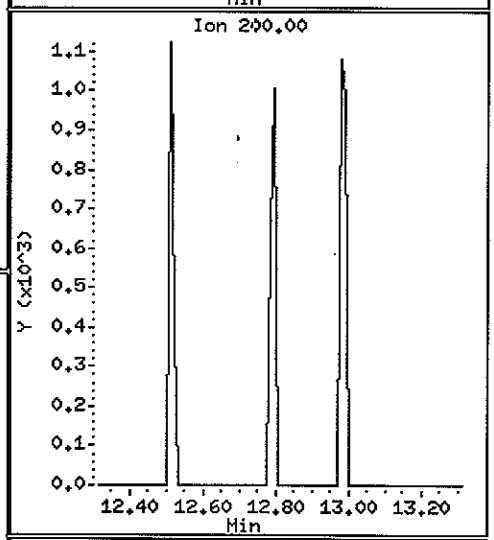


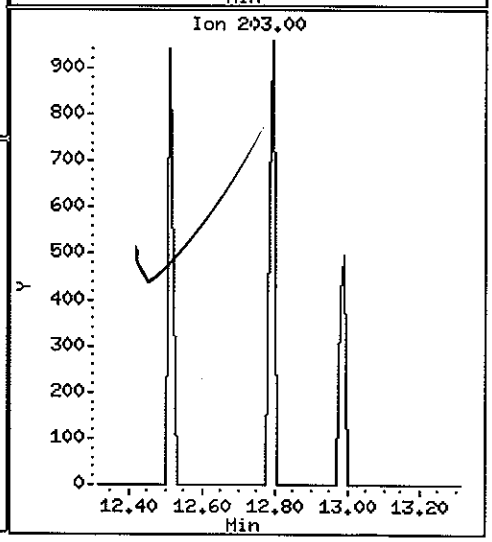












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

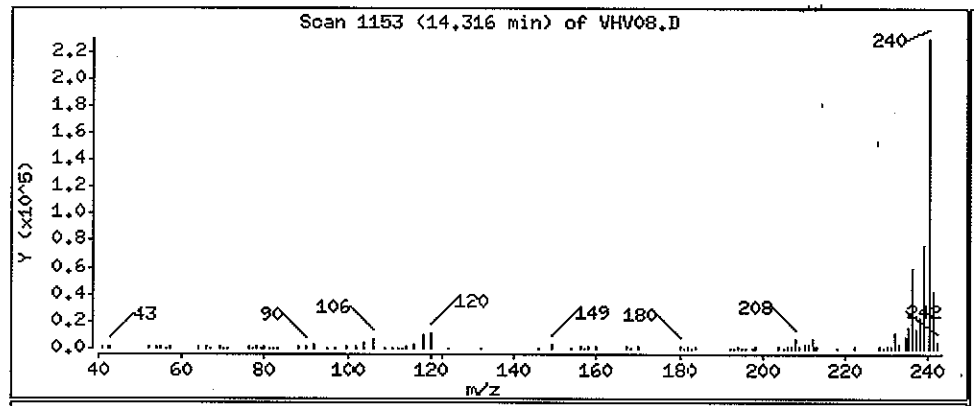
Operator: BVD

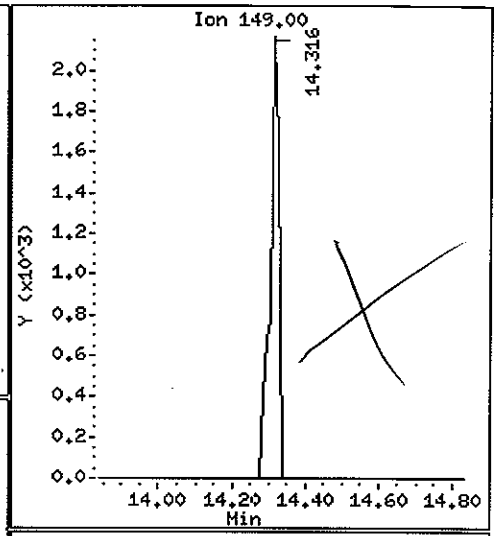
Column phase: Xti 5 x .5 u

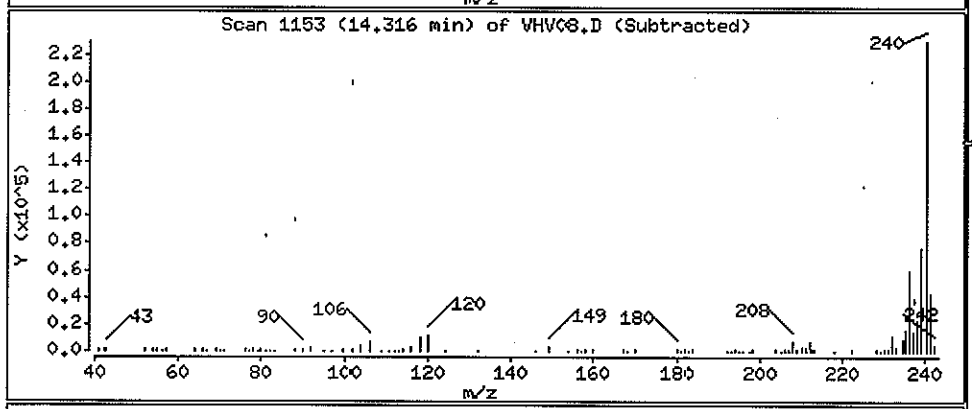
Column diameter: 0.25

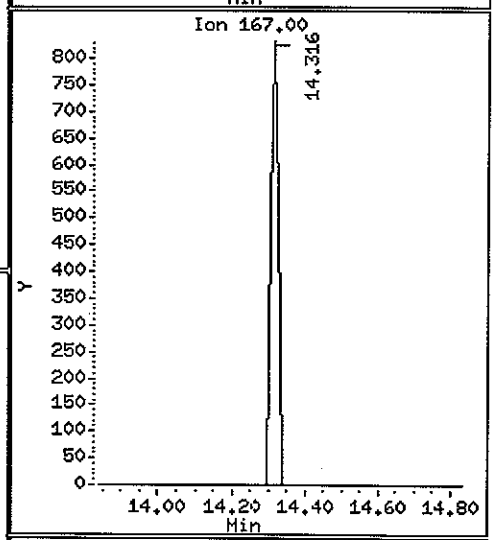
71 bis(2-Ethylhexyl)phthalate

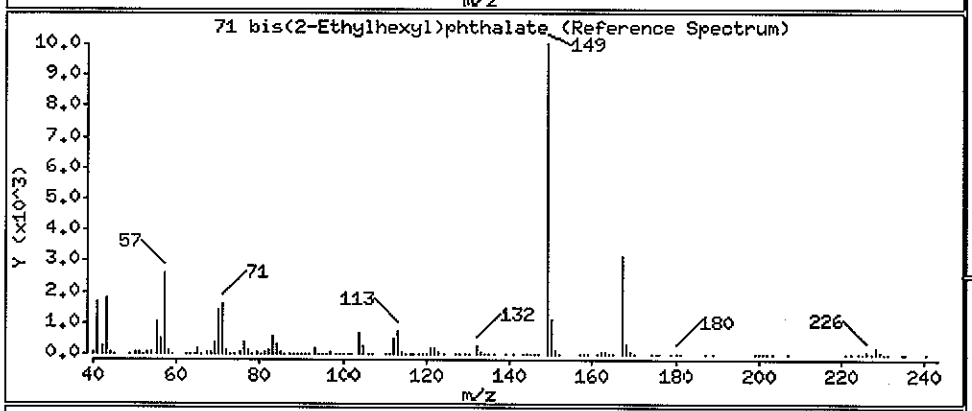
Concentration: 0.1880 ug/L

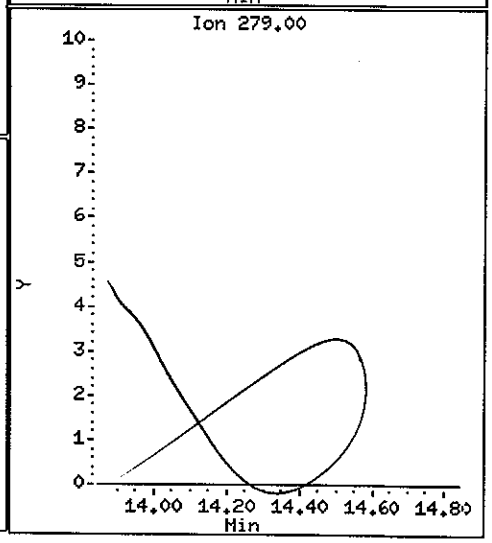


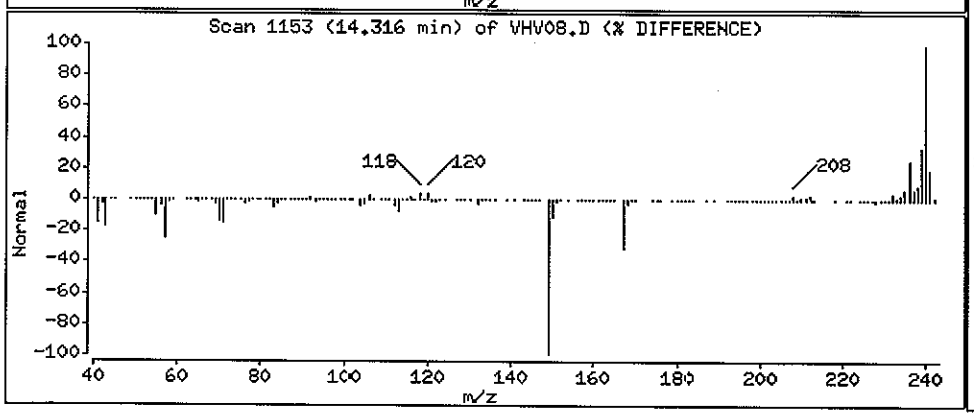












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

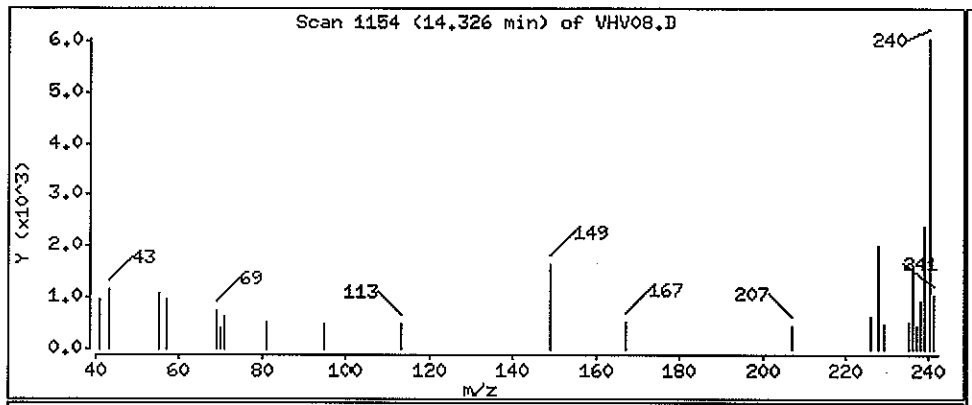
Operator: BVD

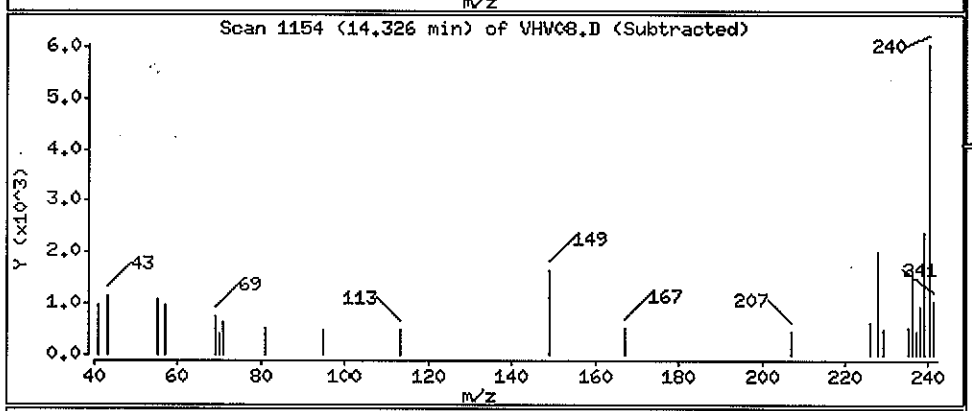
Column phase: Xti 5 x .5 u

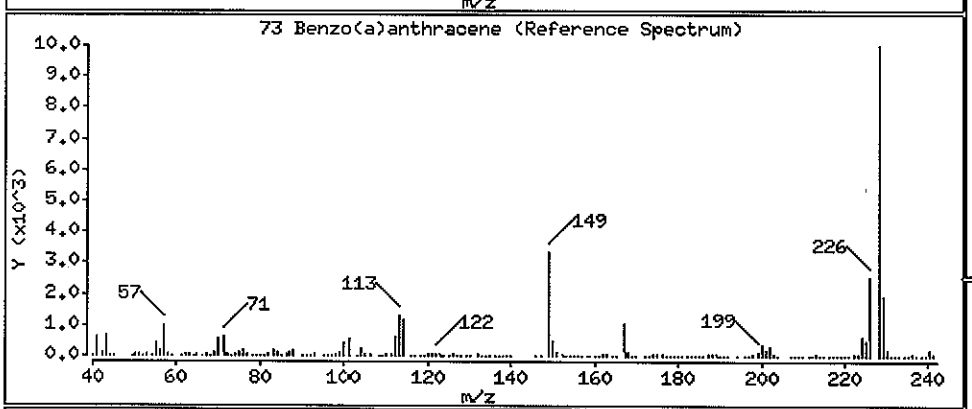
Column diameter: 0.25

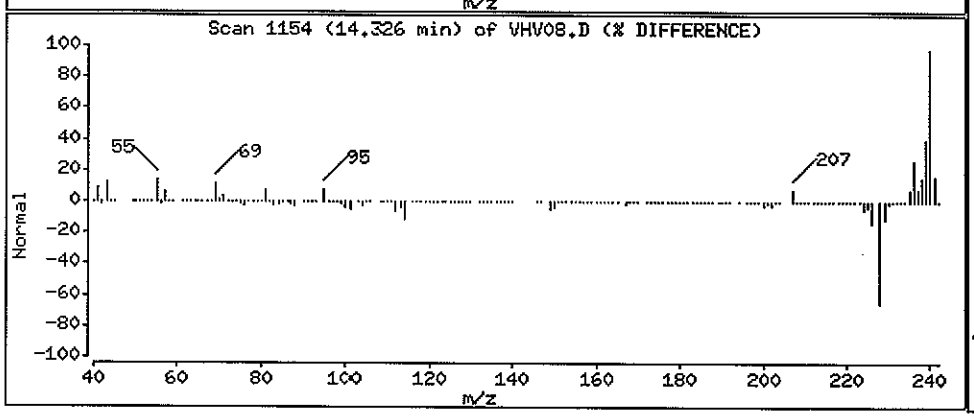
73 Benzo(a)anthracene

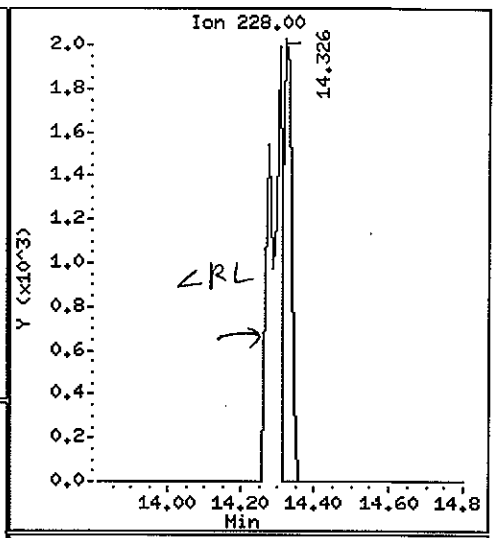
Concentration: 0.1135 ug/L

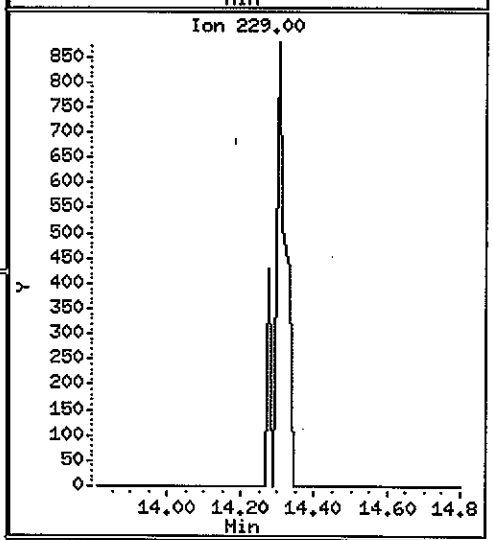


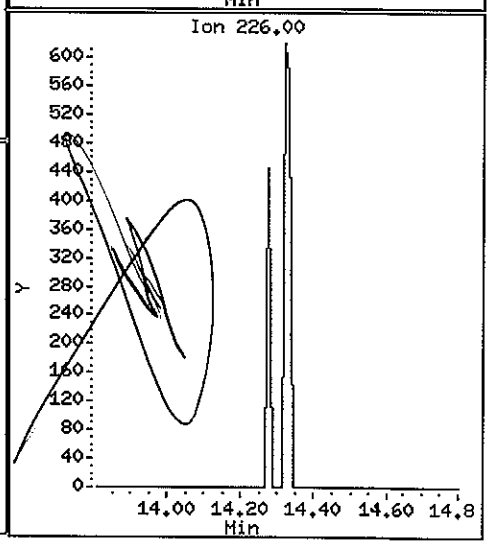












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

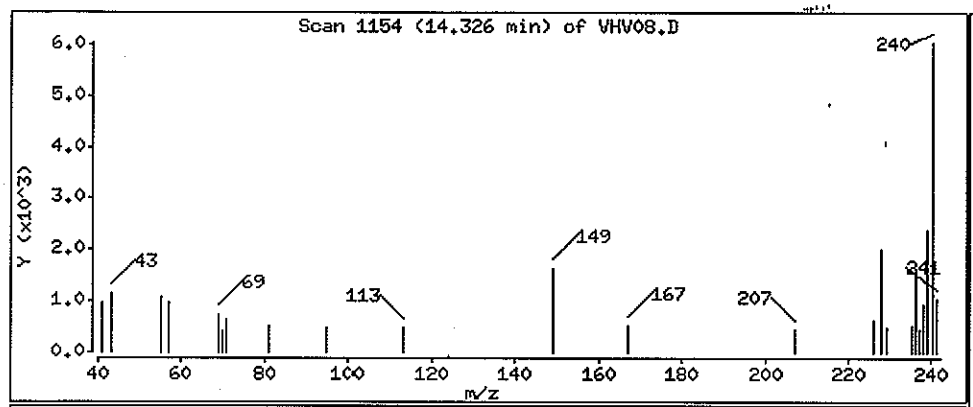
Operator: BVD

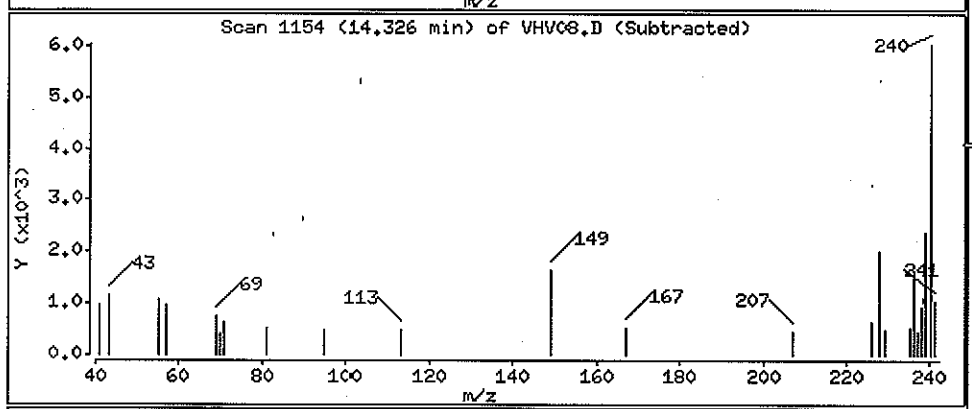
Column phase: Xti 5 x .5 u

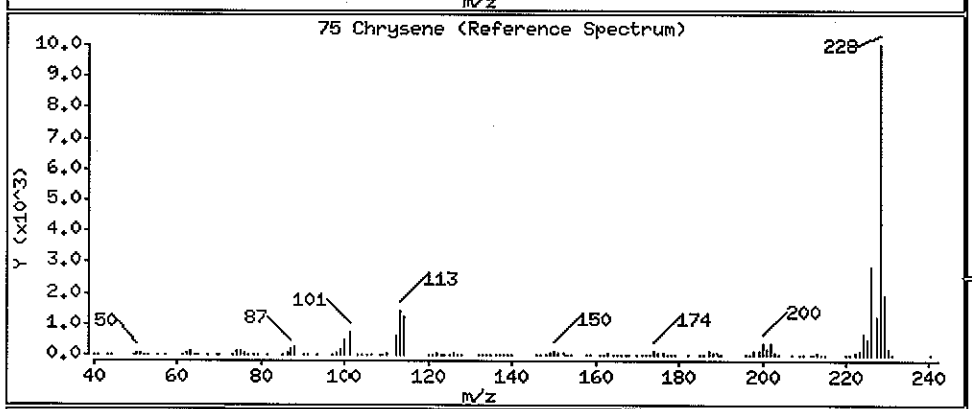
Column diameter: 0.25

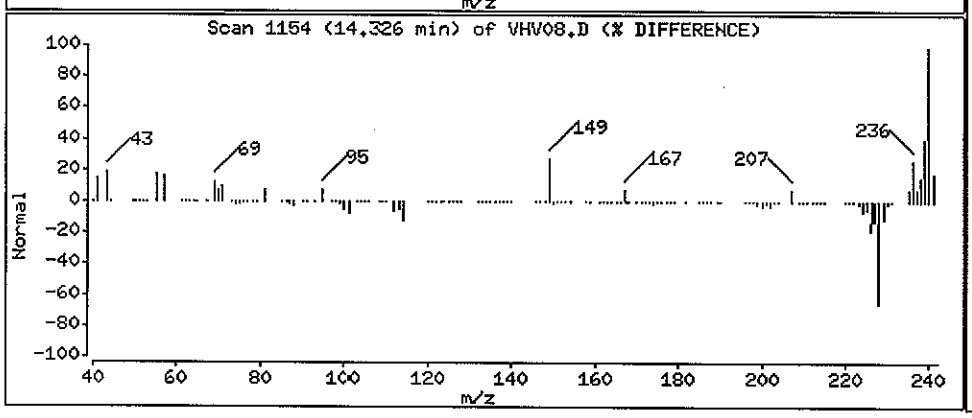
75 Chrysene

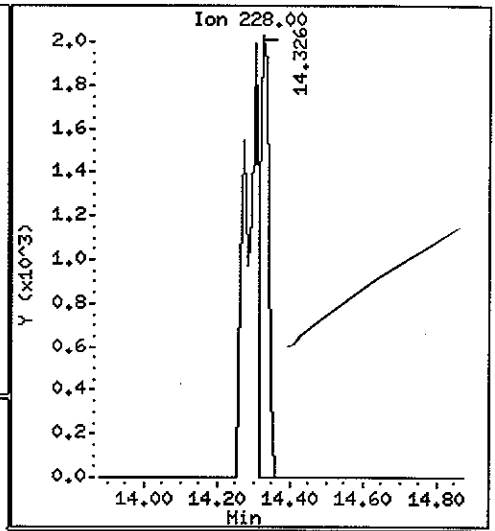
Concentration: 0.1128 ug/L

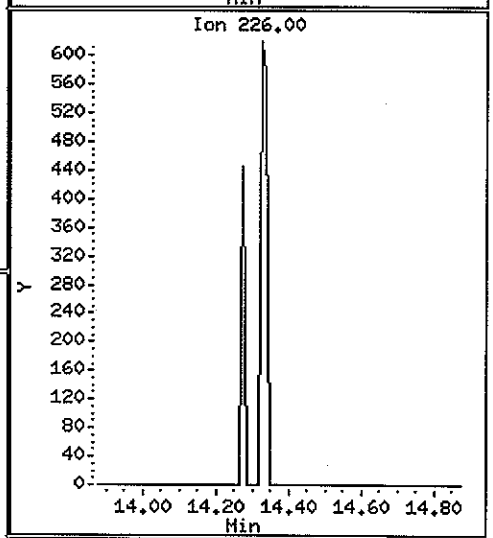


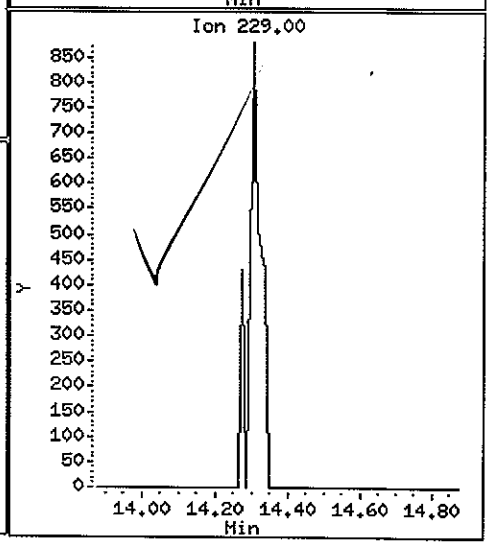












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

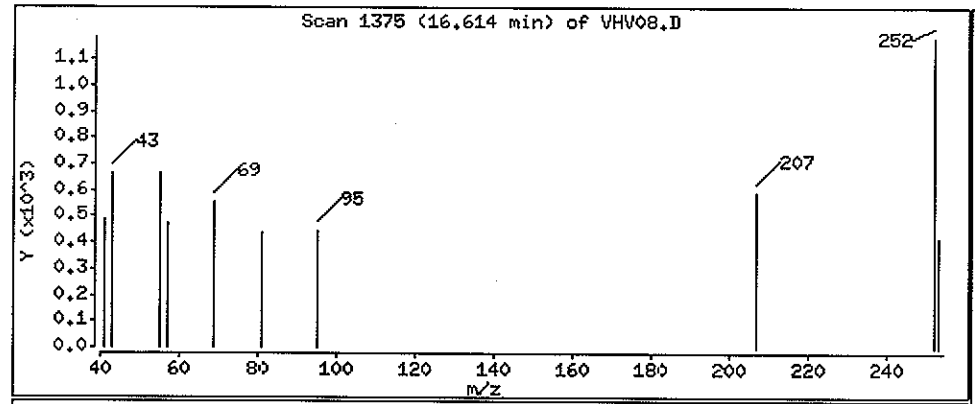
Operator: BVD

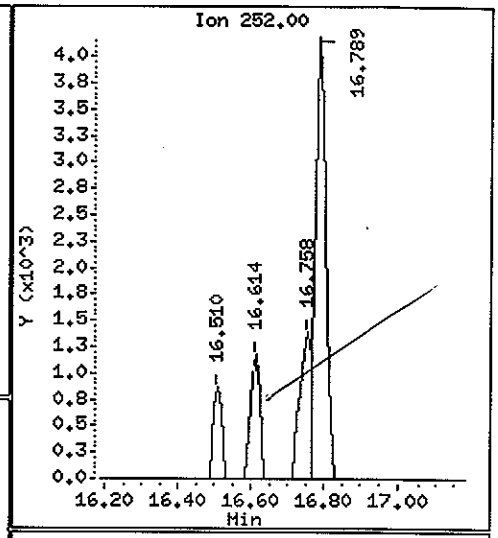
Column phase: Xti 5 x .5 u

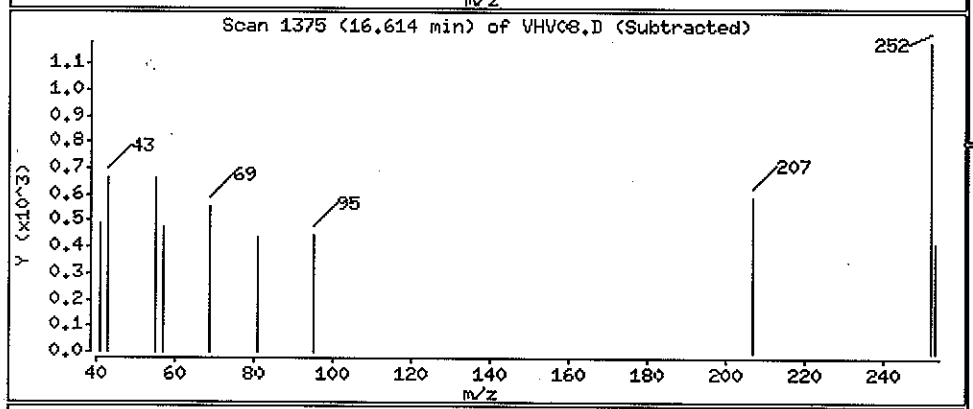
Column diameter: 0.25

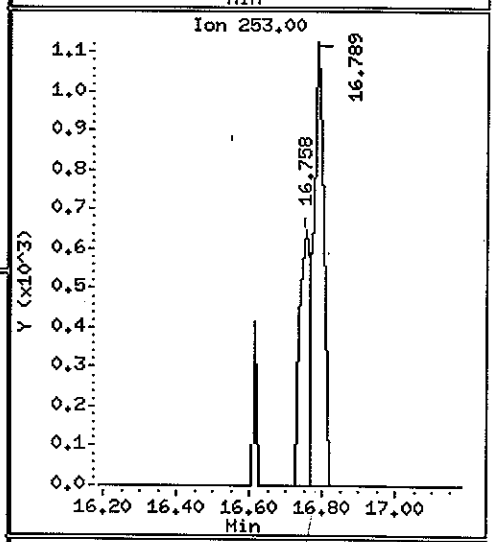
79 Benzo(a)pyrene

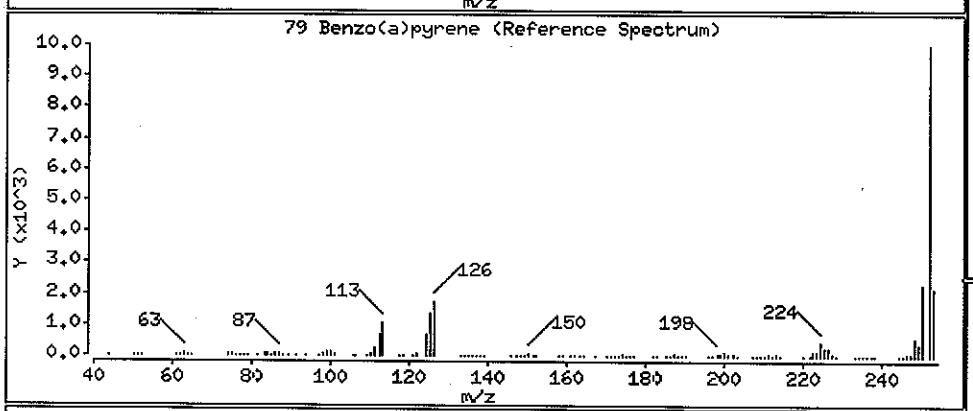
Concentration: 0.0740 ug/L

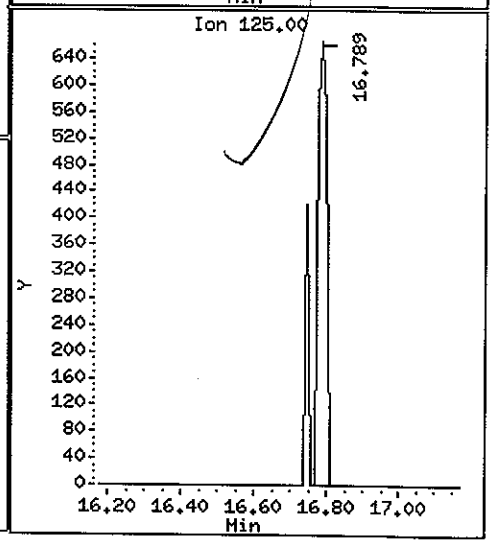


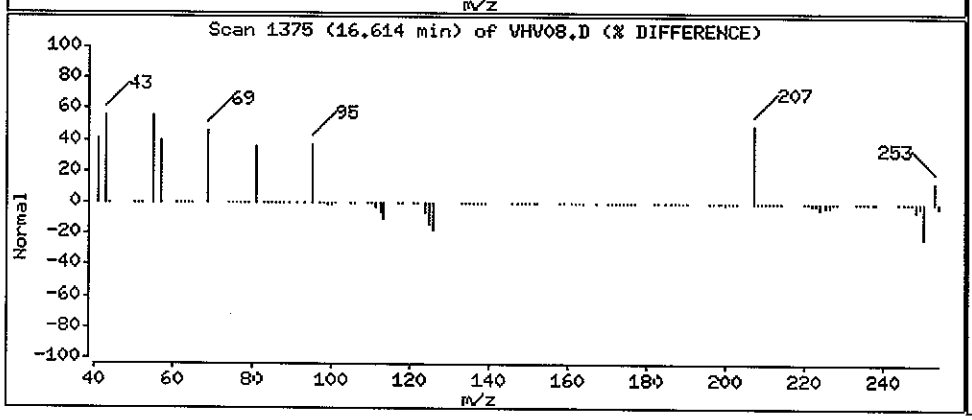












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

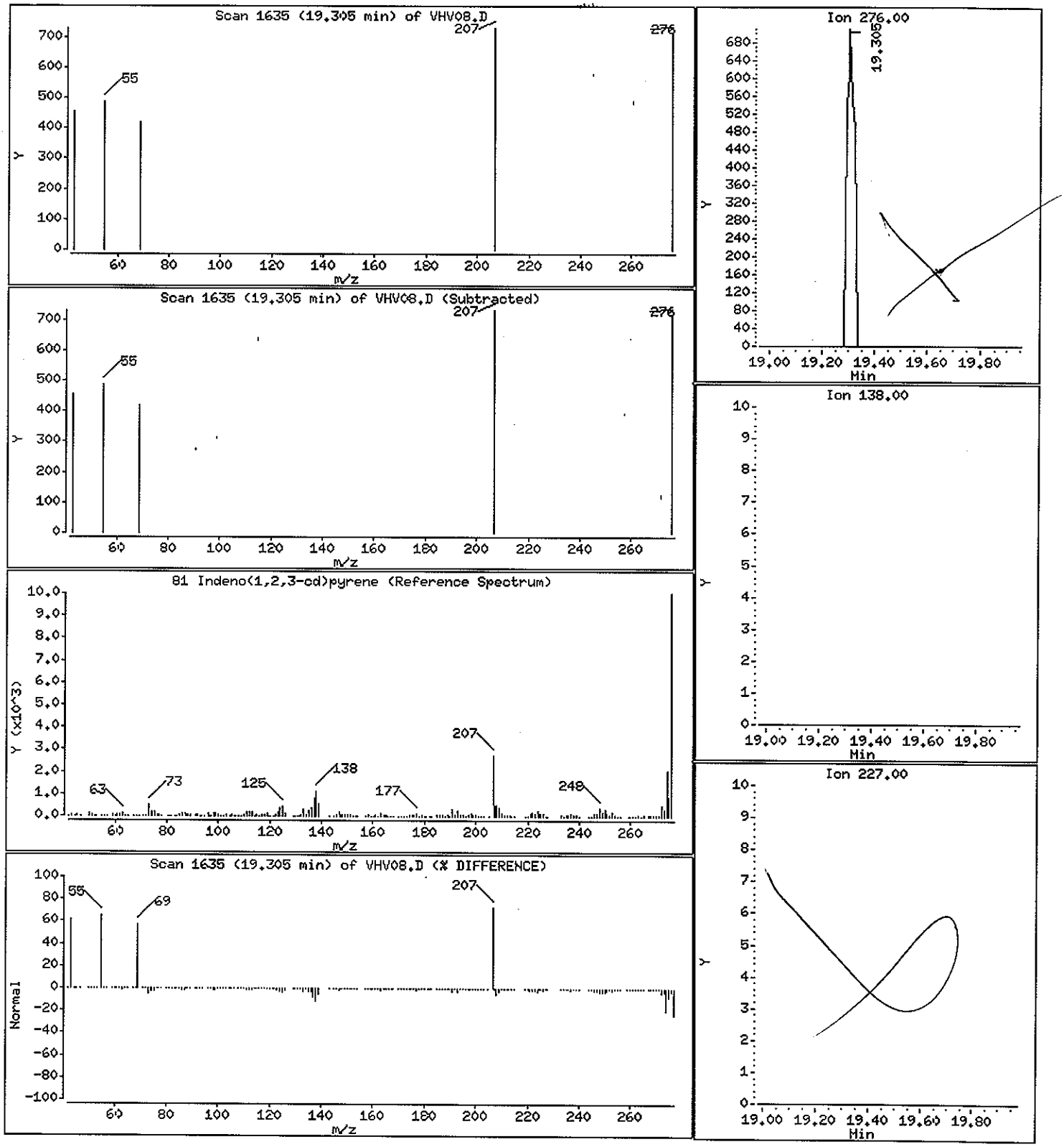
Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

81 Indeno(1,2,3-cd)pyrene

Concentration: 0.0407 ug/L



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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

Volume Injected (uL): 1.0

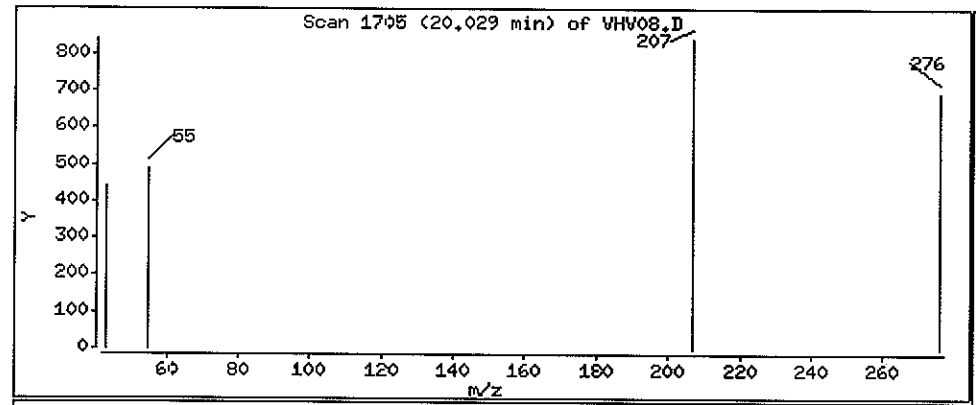
Operator: BVD

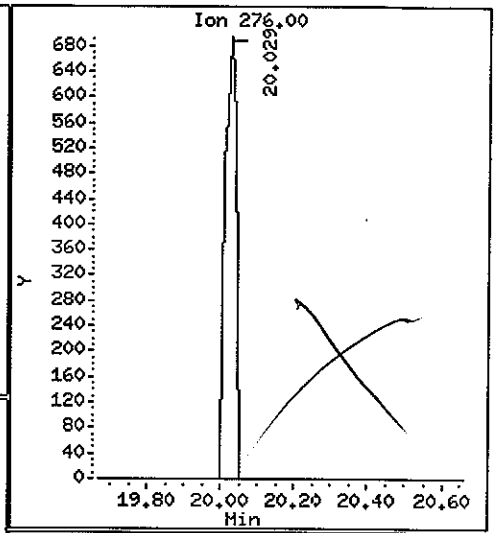
Column phase: Xti 5 x .5 u

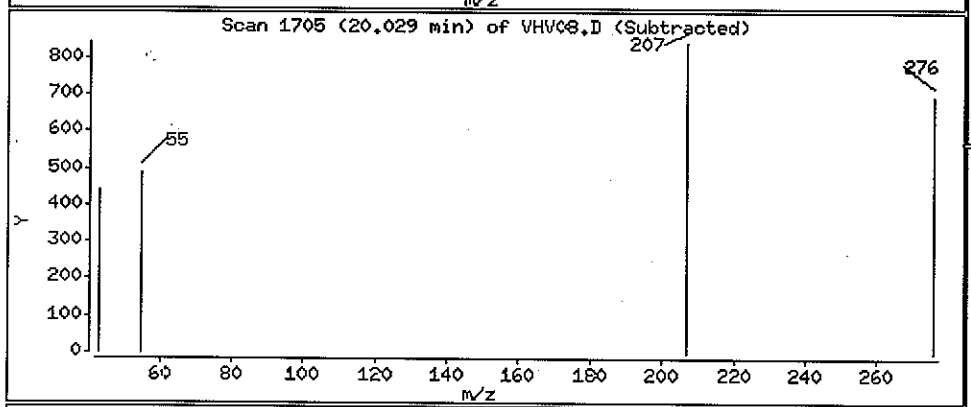
Column diameter: 0.25

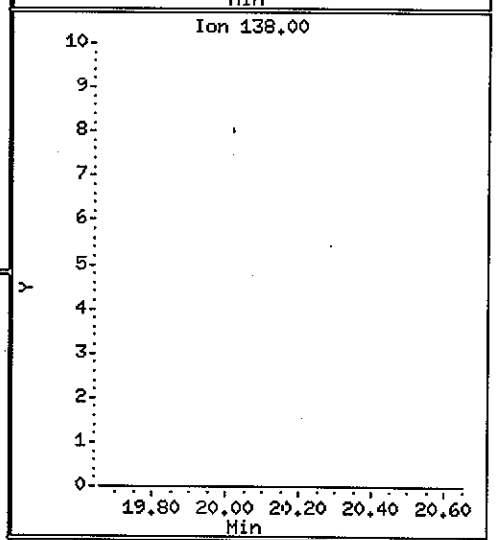
83 Benzo(g,h,i)perylene

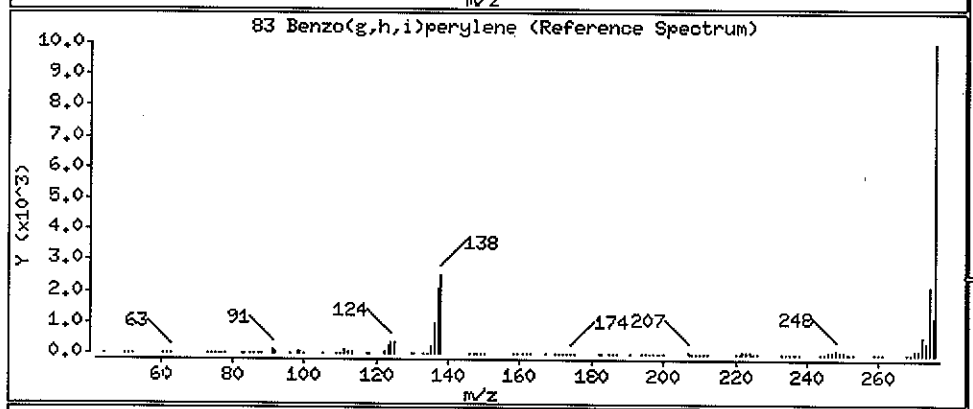
Concentration: 0.0541 ug/L

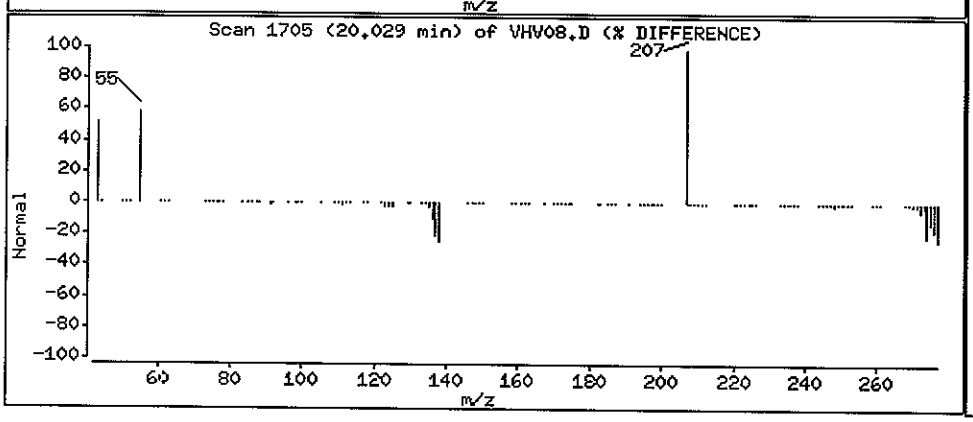


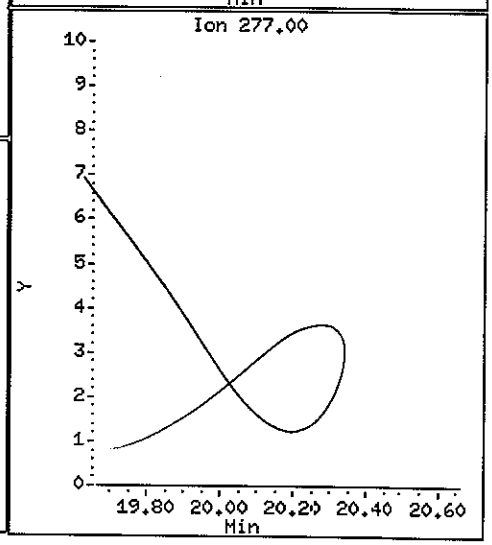












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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

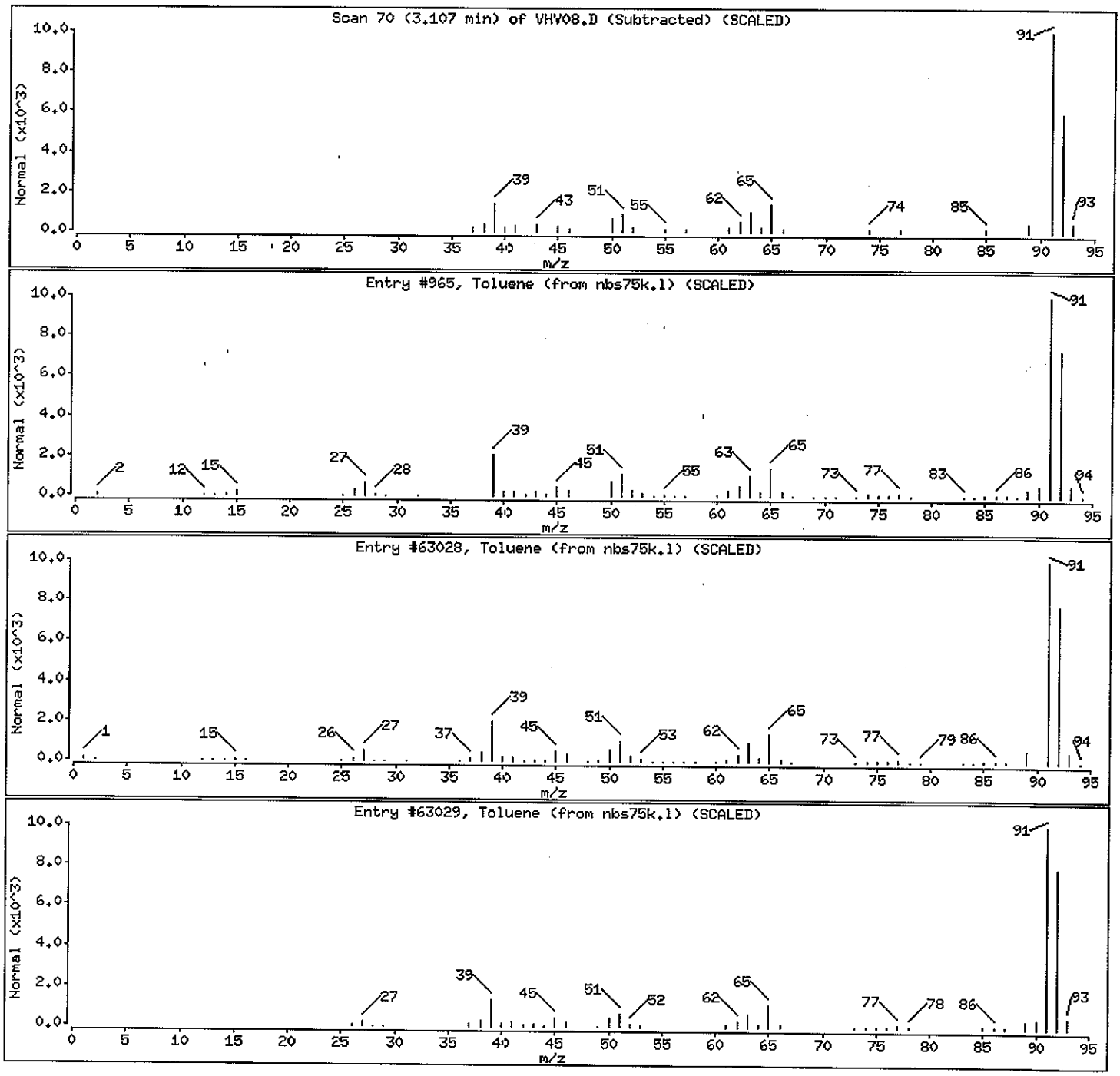
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Toluene	108-88-3	nbs75k.l	965	94	C7H8	92
Toluene	108-88-3	nbs75k.l	63028	94	C7H8	92
Toluene	108-88-3	nbs75k.l	63029	91	C7H8	92



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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

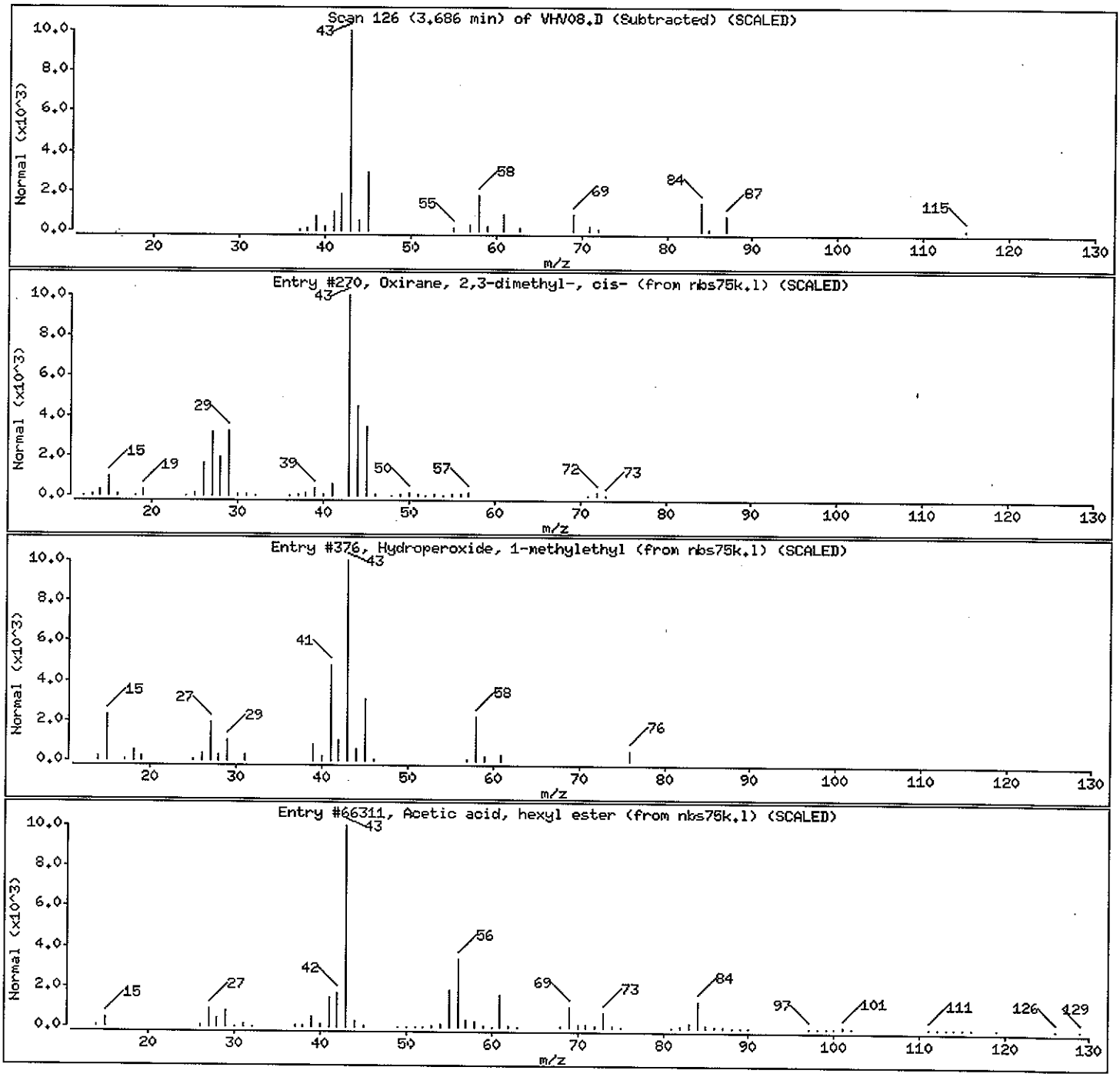
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Oxirane, 2,3-dimethyl-, cis-	1758-33-4	nbs75k.l	270	35	C4H8O	72
Hydroperoxide, 1-methylethyl	3031-75-2	nbs75k.l	376	33	C3H8O2	76
Acetic acid, hexyl ester	142-92-7	nbs75k.l	66311	25	C8H16O2	144



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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

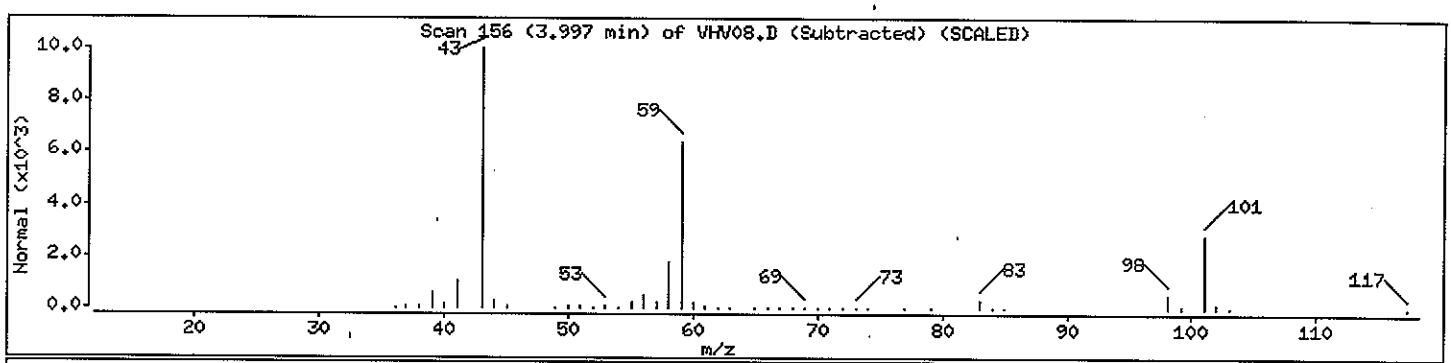
Volume Injected (uL): 1.0

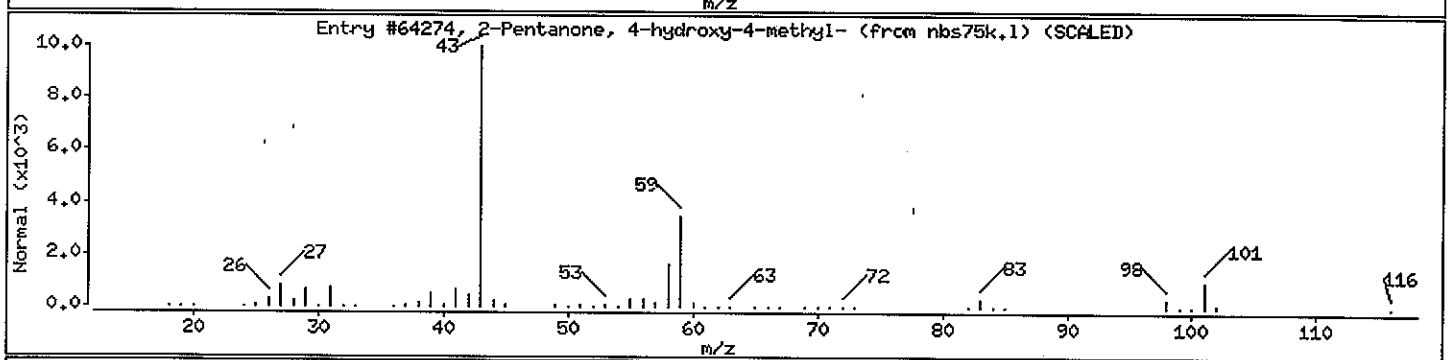
Operator: BVD

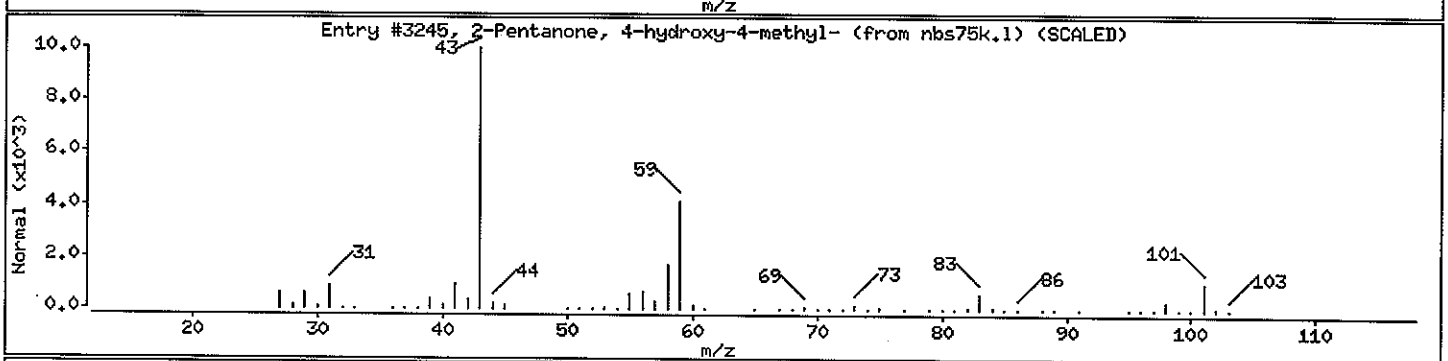
Column phase: Xti 5 x .5 u

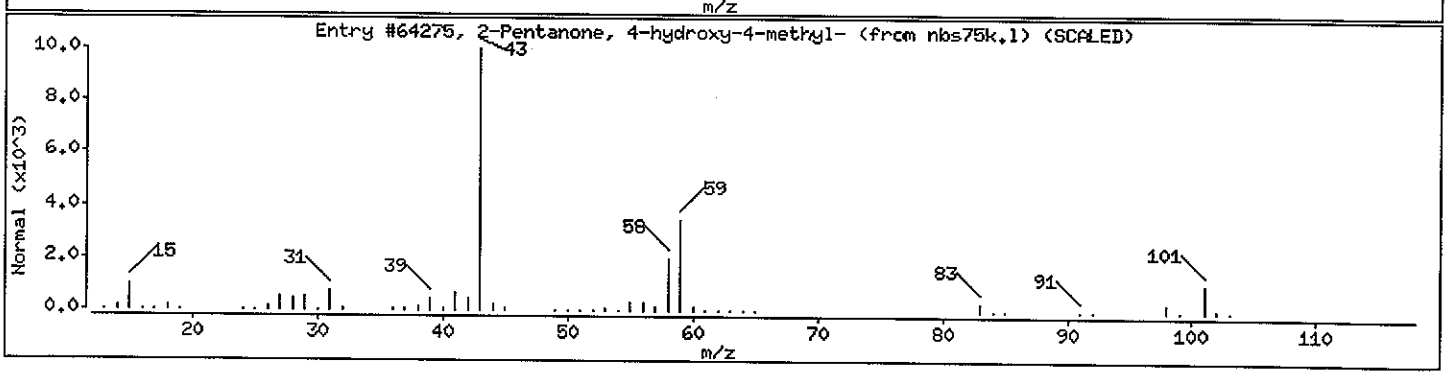
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	39	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	3245	33	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	28	C6H12O2	116









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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

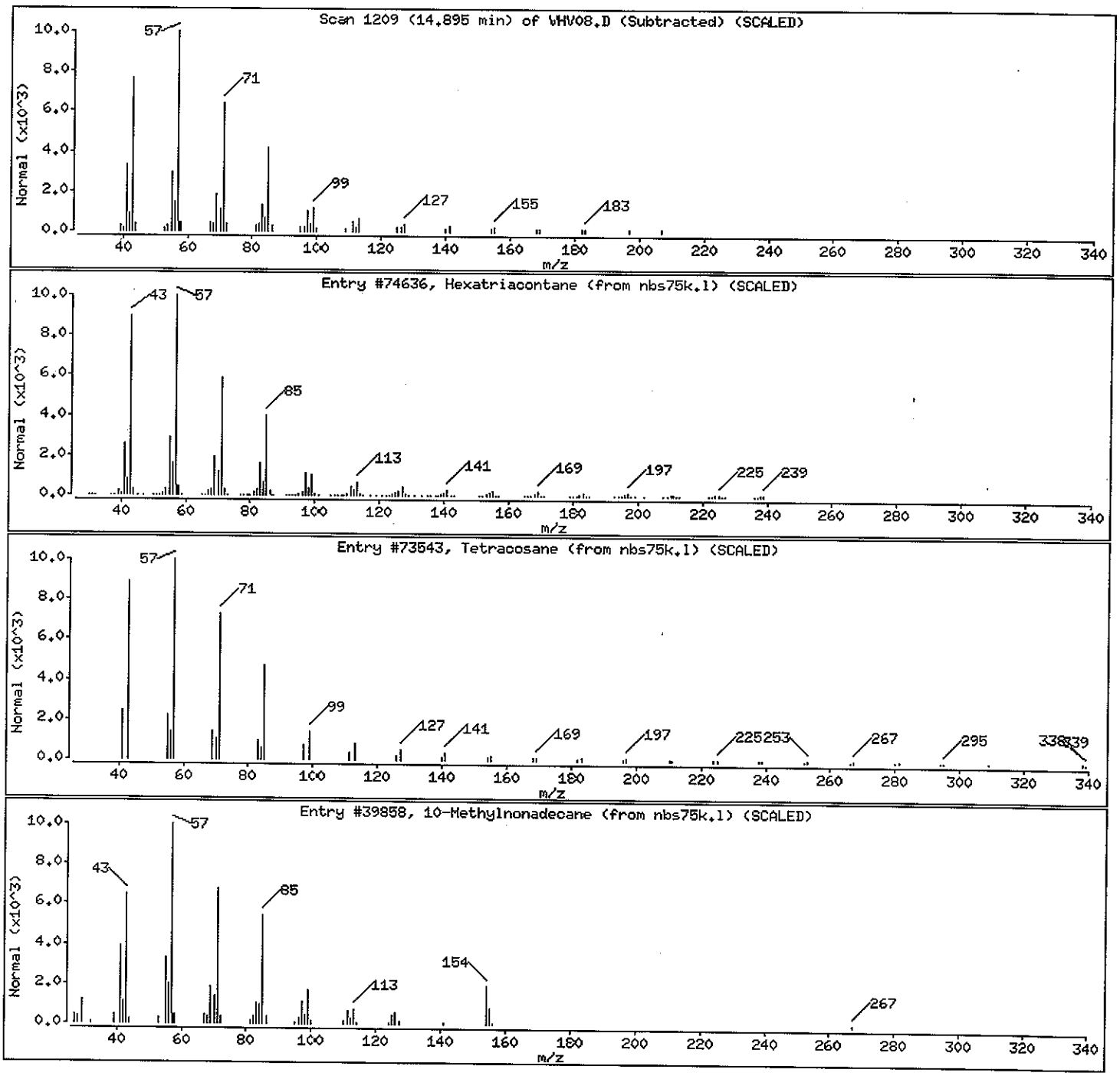
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexatriacontane	630-06-8	nbs75k.l	74636	95	C36H74	507
Tetracosane	646-31-1	nbs75k.l	73543	91	C24H50	338
10-Methylnonadecane	0-00-0	nbs75k.l	39858	91	C20H42	282



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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

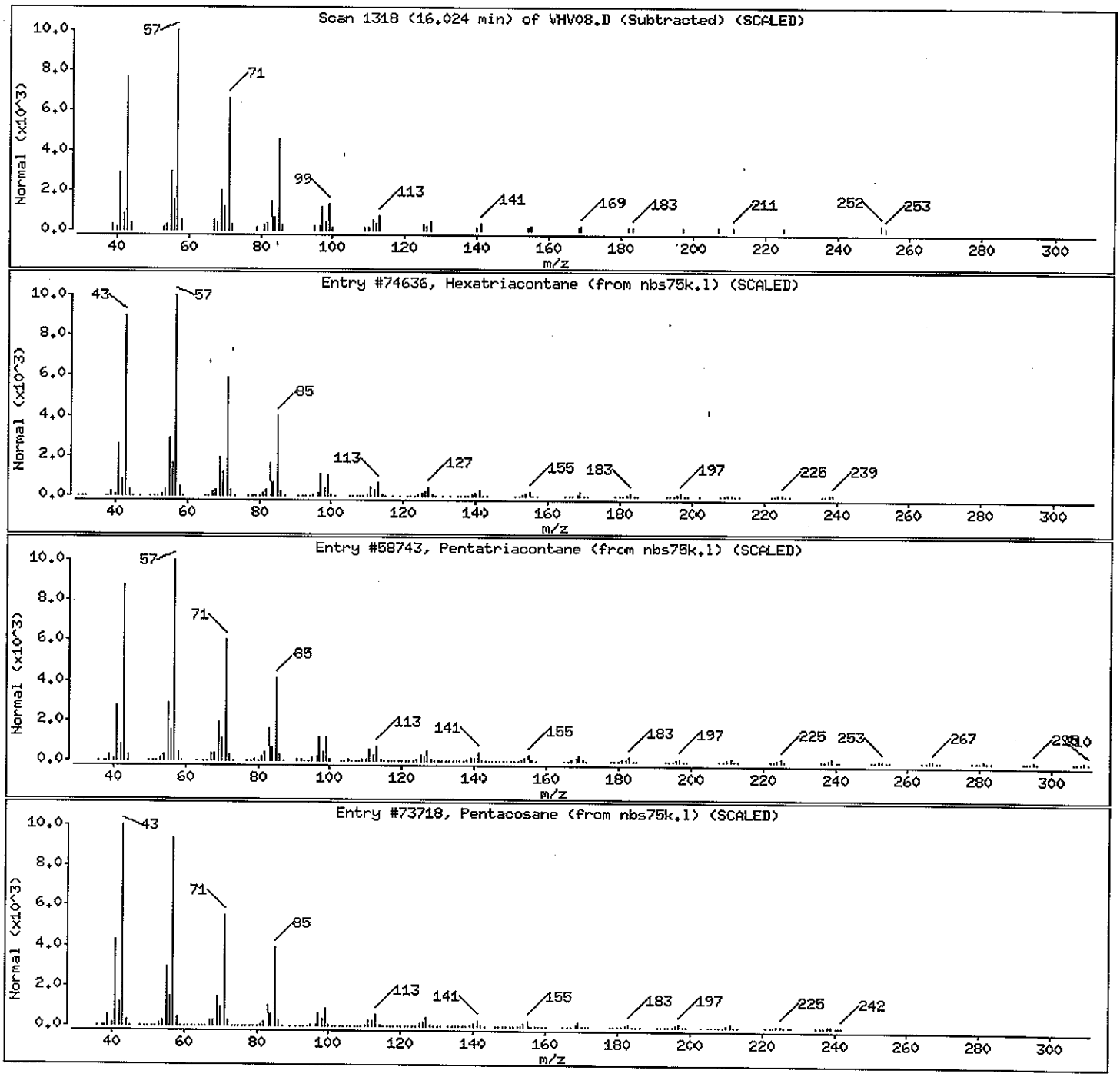
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexatriacontane	630-06-8	nbs75k.l	74636	95	C36H74	507
Pentatriacontane	630-07-9	nbs75k.l	58743	95	C35H72	493
Pentacosane	629-99-2	nbs75k.l	73718	91	C25H52	352



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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

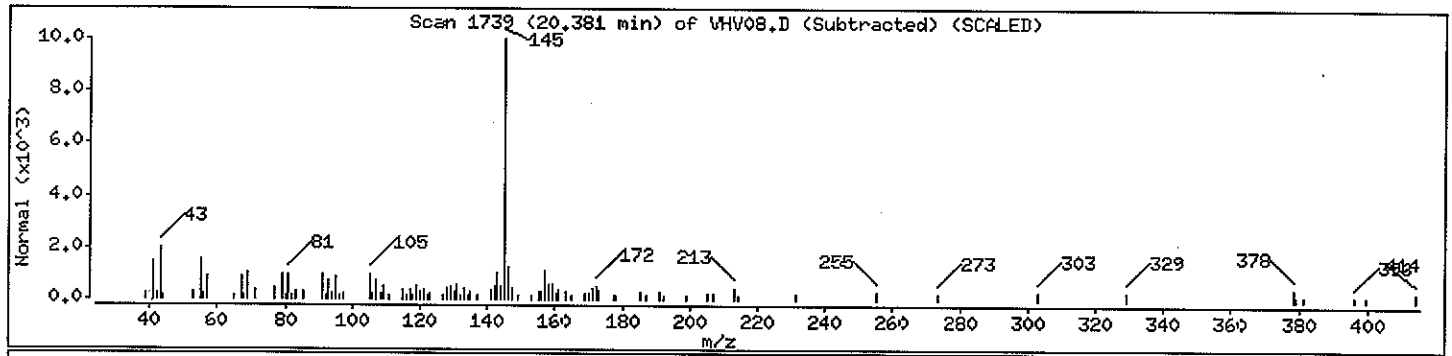
Volume Injected (uL): 1.0

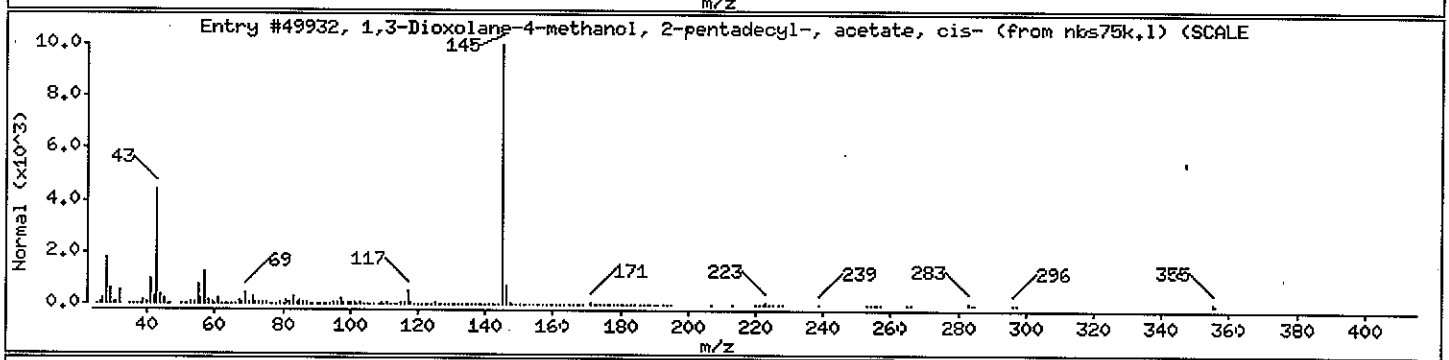
Operator: BVD

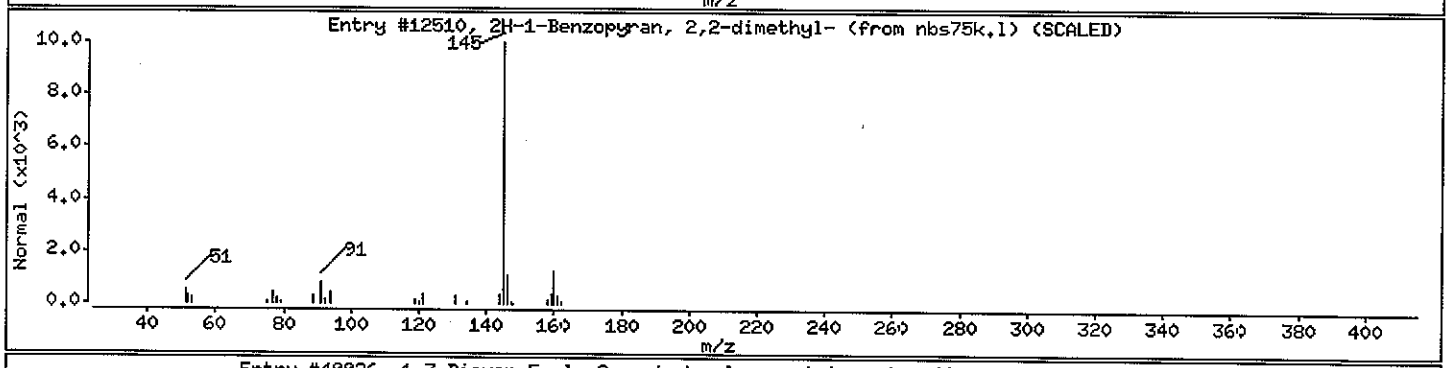
Column phase: Xti 5 x .5 u

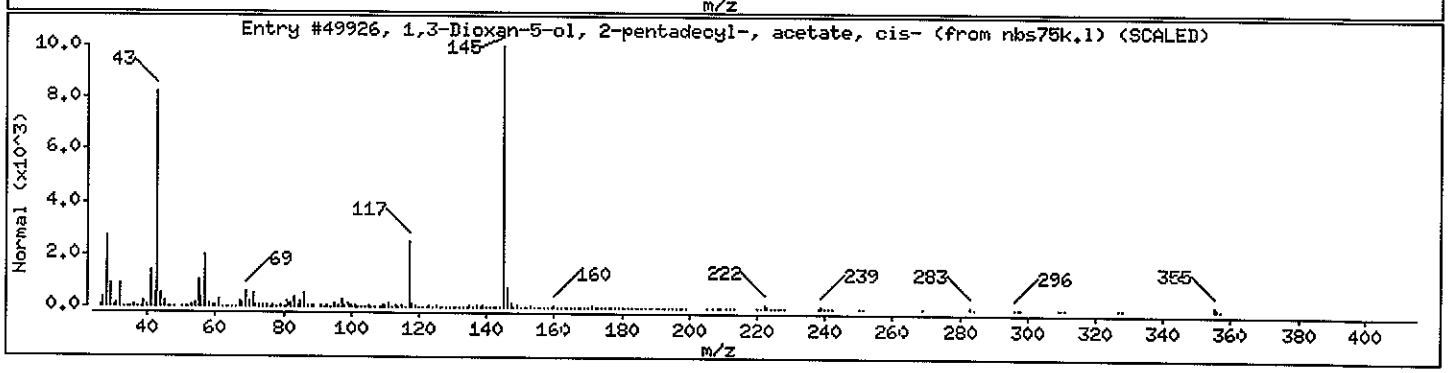
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,3-Dioxolane-4-methanol, 2-pentadecyl-,	30889-29-3	nbs75k.l	49932	53	C21H4004	356
2H-1-Benzopyran, 2,2-dimethyl-	2513-25-9	nbs75k.l	12510	53	C11H120	160
1,3-Dioxan-5-ol, 2-pentadecyl-, acetate,	30889-23-7	nbs75k.l	49926	50	C21H4004	356









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Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

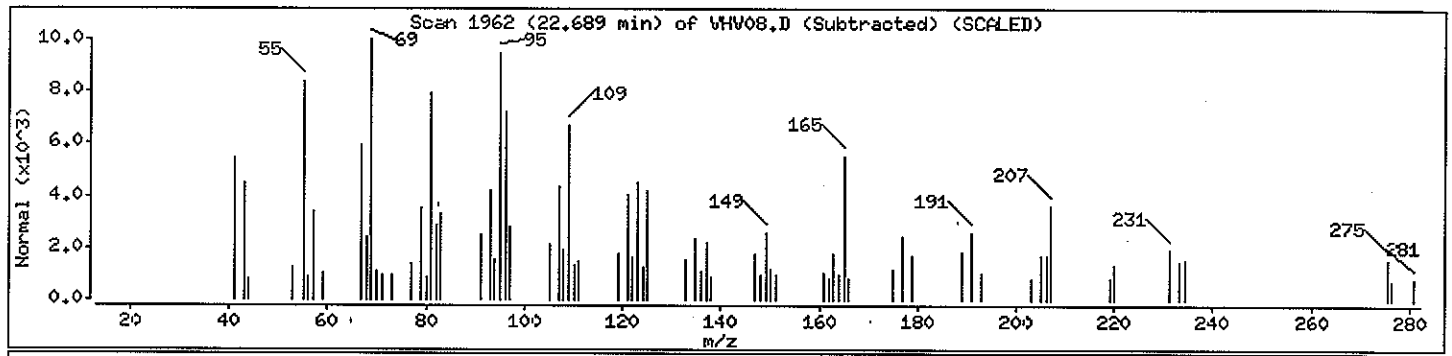
Volume Injected (uL): 1.0

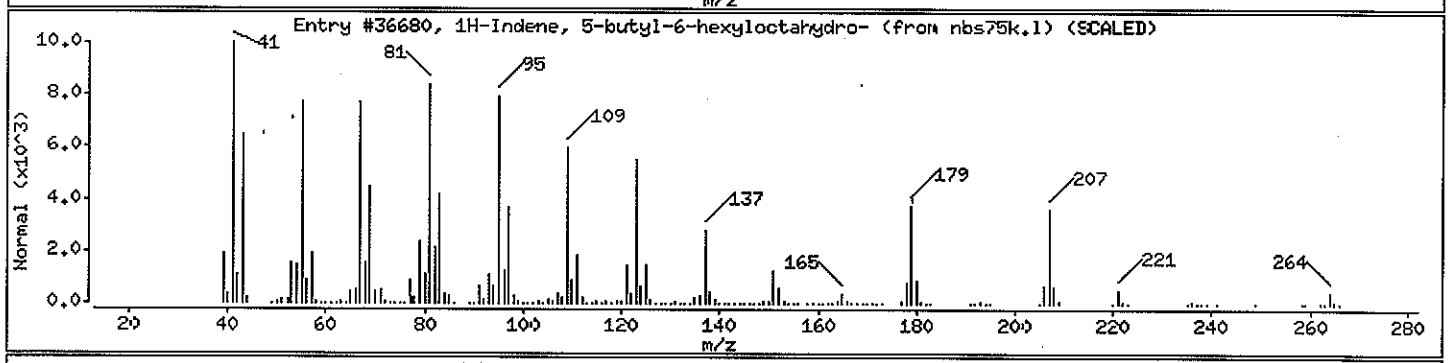
Operator: BVD

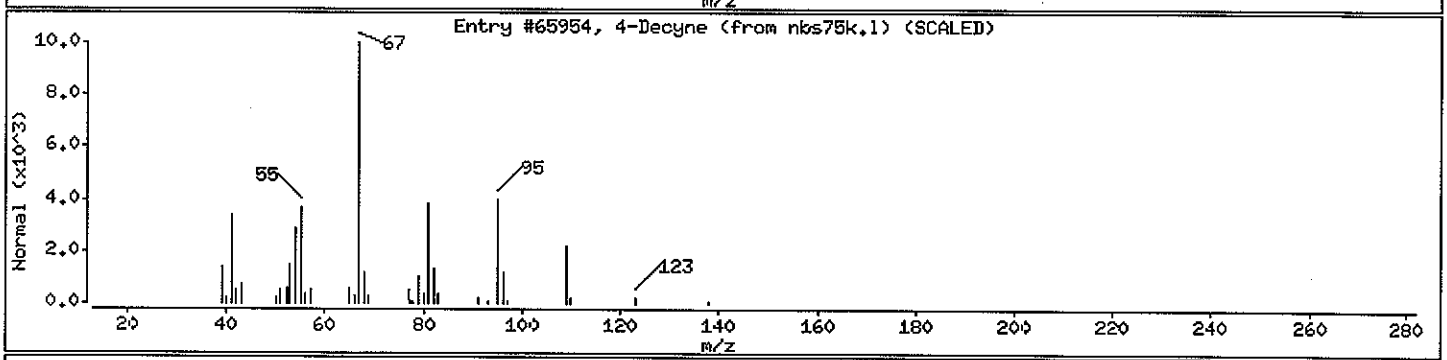
Column phase: Xti 5 x .5 u

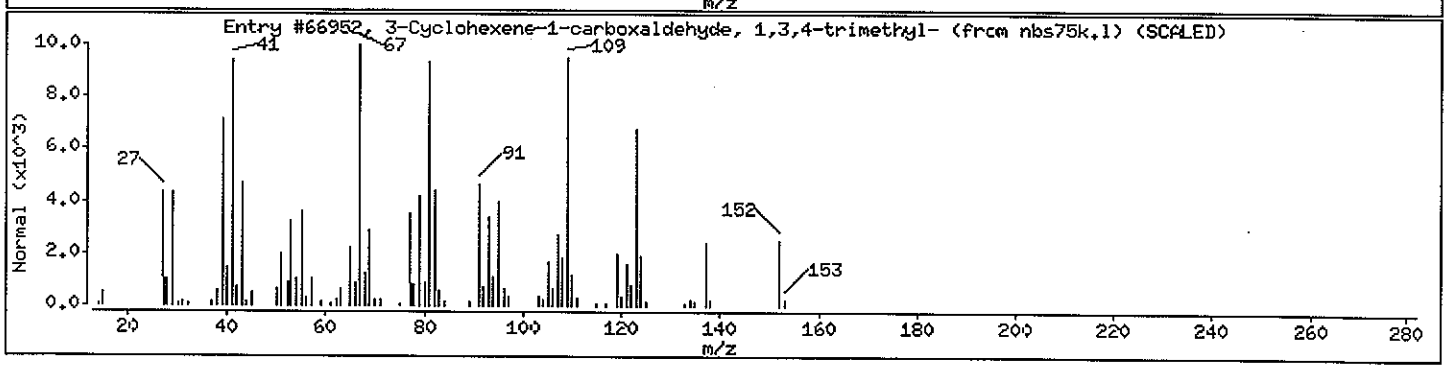
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1H-Indene, 5-butyl-6-hexyloctahydro-	55044-36-5	nbs75k.l	36680	38	C19H36	264
4-Decyne	2384-86-3	nbs75k.l	65954	35	C10H18	138
3-Cyclohexene-1-carboxaldehyde, 1,3,4-tr	40702-26-9	nbs75k.l	66952	25	C10H160	152









Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV08.D

Date : 31-AUG-2004 17:54

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MSS,174320-003

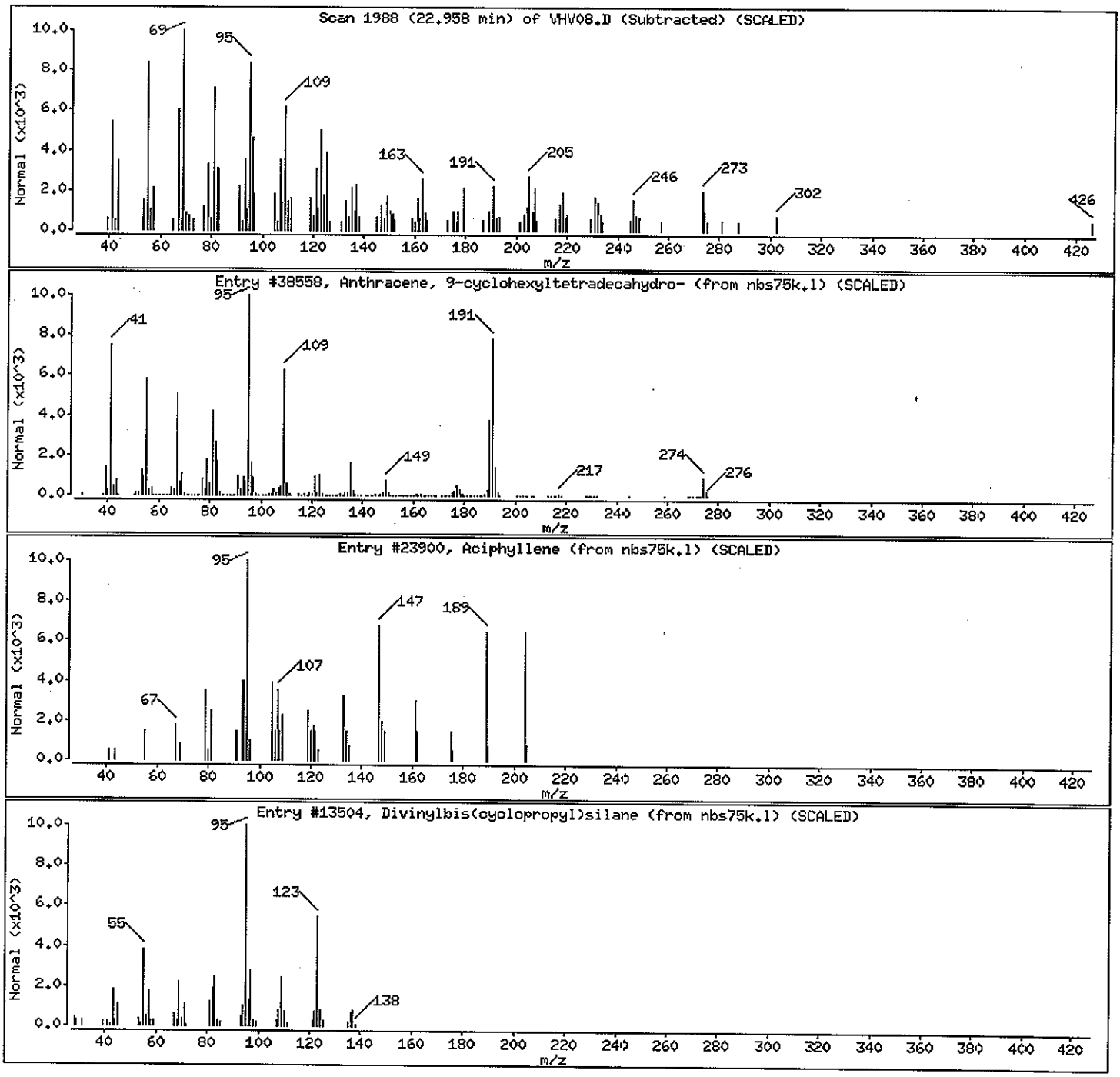
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Anthracene, 9-cyclohexyltetradecahydro-	55255-70-4	nbs75k.l	38558	30	C20H34	274
Aciphyllene	87745-31-1	nbs75k.l	23900	25	C15H24	204
Divinylbis(cyclopropyl)silane	0-00-0	nbs75k.l	13504	22	C10H16Si	164



QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum	: QC263126	Cident	:
Seqnum	: 524352153006	Matrix	: Soil	Acctnum	: QC
Filename	: vhv06	Batchnum	: 94212	Injected	: 31-AUG-2004 16:41
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524350774002	Caldate	: 30-AUG-2004	Caltype	:

Prep: 29.66 g --> 1.0 ml = 0.03372 ml/g PDF

Analyte	Result	RTS	RL	Flags
Phenol	ND		340	
2-Chlorophenol	ND		340	
1,4-Dichlorobenzene	ND		340	
N-Nitroso-di-n-propylamine	~~310 J~~ ND	0.113	340	x
1,2,4-Trichlorobenzene	ND		340	
4-Chloro-3-methylphenol	ND		340	
Acenaphthene	ND		67	
4-Nitrophenol	ND		670	
2,4-Dinitrotoluene	~~430~~ ND	-0.322	340	x
Pentachlorophenol	ND		670	
Pyrene	ND		67	
N-Nitrosodimethylamine	ND		340	
Pyridine	ND		340	
Aniline	~~330 J~~		340	!c- B rsd v- b*
bis(2-Chloroethyl)ether	~~40 J~~ ND	0.228	340	x
1,3-Dichlorobenzene	ND		340	
Benzyl alcohol	ND		340	
1,2-Dichlorobenzene	ND		340	
2-Methylphenol	ND		340	
bis(2-Chloroisopropyl) ether	ND		340	
4-Methylphenol	ND		670	
Hexachloroethane	ND		340	
Nitrobenzene	ND		340	
Isophorone	~~630~~ ND	-0.311	340	x
2-Nitrophenol	ND		670	
2,4-Dimethylphenol	ND		340	
Benzoic acid	ND		1700	
bis(2-Chloroethoxy)methane	ND		340	
2,4-Dichlorophenol	ND		340	
Naphthalene	ND		67	
4-Chloroaniline	ND		340	!v-
Hexachlorobutadiene	ND		340	
2-Methylnaphthalene	ND		67	
Hexachlorocyclopentadiene	ND		1700	
2,4,6-Trichlorophenol	ND		340	
2,4,5-Trichlorophenol	ND		340	
2-Chloronaphthalene	ND		340	
2-Nitroaniline	ND		670	
Dimethylphthalate	~~210 J~~ ND	0.259	340	x
Acenaphthylene	ND		67	
2,6-Dinitrotoluene	~~540~~ ND	0.155	340	x
3-Nitroaniline	ND		670	

!=warning -=low bias B=method blank contamination b=noncompliant c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure
rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum	: QC263126	Cident	:
Seqnum	: 524352153006	Matrix	: Soil	Acctnum	: QC
Filename	: vhv06	Batchnum	: 94212	Injected	: 31-AUG-2004 16:41
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524350774002	Caldate	: 30-AUG-2004	Caltype	:

Analyte	Result	RTS	RL	Flags
2,4-Dinitrophenol	ND		1700	
Dibenzofuran	ND		340	y
Diethylphthalate	ND		340	
Fluorene.....	20 J	0.310	67	x
4-Chlorophenyl-phenylether	ND		340	
4-Nitroaniline	ND		670	v-
4,6-Dinitro-2-methylphenol	ND		1700	
N-Nitrosodiphenylamine	ND		340	
Azobenzene	ND		340	
4-Bromophenyl-phenylether....	67 J	-0.280	340	x
Hexachlorobenzene	ND		340	
Phenanthrene	ND		67	
Anthracene	ND		67	
Carbazole	ND		1700	v-
Di-n-butylphthalate	ND		340	
Fluoranthene	ND		67	
Benzidine	ND		1700	c- crf irf rsd v- b
Butylbenzylphthalate	ND		340	
3,3'-Dichlorobenzidine	ND		670	
Benzo(a)anthracene	ND		67	
Chrysene	ND		67	
bis(2-Ethylhexyl)phthalate	ND		340	
Di-n-octylphthalate	ND		340	
Benzo(b)fluoranthene	ND		67	
Benzo(k)fluoranthene	ND		67	
Benzo(a)pyrene	ND		67	
Indeno(1,2,3-cd)pyrene	ND		67	
Dibenz(a,h)anthracene	ND		67	
Benzo(g,h,i)perylene	ND		67	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3372	2486	74	33-120	
Phenol-d5	3372	2409	71	31-120	
2,4,6-Tribromophenol	3372	1767	52	32-120	
Nitrobenzene-d5	1686	1095	65	43-120	
2-Fluorobiphenyl	1686	1236	73	48-120	
Terphenyl-d14	1686	1094	65	37-120	

08/31/04

9/1/04

!=warning -=low bias B=method blank contamination b=noncompliant c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure
rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA03	Samplenum:	QC263126	Cident	:
Seqnum	: 524352153006	Matrix	: Soil	Acctnum	: QC
Filename	: vhv06	Batchnum	: 94212	Injected	: 31-AUG-2004 16:41
IDF	: 1.0			Units	: ug/Kg
Calnum	: 524350774002	Caldate	: 30-AUG-2004	Caltype	:

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	238378	-3.92	5.59	5.58	-0.01
Naphthalene-d8	850720	867257	1.94	7.08	7.06	-0.02
Acenaphthene-d10	570359	522590	-8.38	9.22	9.21	-0.01
Phenanthrene-d10	1014817	973396	-4.08	11.04	11.02	-0.02
Chrysene-d12	978350	943058	-3.61	14.33	14.31	-0.02
Perylene-d12	826333	857733	3.80	16.78	16.76	-0.02

9/31/00

9/1/00

!=warning -=low bias B=method blank contamination b=noncompliant c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure
rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D
Report Date: 31-Aug-2004 17:36

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 16:41 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MB,QC263126
Misc Info : 94212,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	4.287	4.256	(0.768)	549996	73.7447	73.7447
$ 4 Phenol-d5	99	5.249	5.260	(0.941)	744410	71.4571	71.4571
6 Aniline	66	5.249	5.291	(0.941)	40160	9.81430	9.8142
7 bis(2-Chloroethyl)ether	63	5.581	5.354	(1.000)	7689	1.18256	1.1825
* 10 1,4-Dichlorobenzene-d4	152	5.581	5.591	(1.000)	238378	40.0000	
17 N-Nitroso-di-n-propylamine	70	6.253	6.140	(1.121)	50739	9.32776	9.3277
$ 19 Nitrobenzene-d5	82	6.253	6.275	(0.886)	346872	32.4851	32.4850
21 Isophorone	82	6.253	6.564	(0.886)	346872	18.8271	18.8270
* 28 Naphthalene-d8	136	7.061	7.082	(1.000)	867257	40.0000	
$ 37 2-Fluorobiphenyl	172	8.386	8.396	(0.910)	651089	36.6484	36.6484
40 Dimethylphthalate	163	9.213	8.955	(1.000)	113375	6.35469	6.3546
41 2,6-Dinitrotoluene	165	9.213	9.059	(1.000)	71596	15.9294	15.9294
* 44 Acenaphthene-d10	164	9.213	9.224	(1.000)	522590	40.0000	
51 Fluorene	166	10.197	9.887	(1.107)	10327	0.59561	0.5956

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D
Report Date: 31-Aug-2004 17:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	52 2,4-Dinitrotoluene	165	9.213	9.535	(1.000)	71596	12.8781	12.8781
	55 N-Nitrosodiphenylamine	169	10.197	10.063	(0.925)	5778	0.45348	0.4534
$	57 2,4,6-Tribromophenol	330	10.197	10.218	(1.107)	182806	52.3971	52.3971
	58 4-Bromophenyl-phenylether	248	10.197	10.477	(0.925)	12502	1.98547	1.9854
*	61 Phenanthrene-d10	188	11.025	11.036	(1.000)	973396	40.0000	
	65 Di-n-butylphthalate	149	11.770	11.781	(1.068)	3416	0.11308	0.1130
	67 Benzidine	184	12.981	12.692	(0.907)	10080	10.6755	10.6755
	68 Pyrene	202	12.981	12.816	(0.907)	2678	0.08271	0.0827
$	69 Terphenyl-d14	244	12.991	13.002	(0.908)	816582	32.4377	32.4376
	73 Benzo(a)anthracene	228	14.306	14.306	(1.000)	2585	0.08354	0.0835
*	74 Chrysene-d12	240	14.306	14.327	(1.000)	943058	40.0000	
	75 Chrysene	228	14.306	14.379	(1.000)	2585	0.08299	0.0829
	79 Benzo(a)pyrene	252	16.759	16.687	(1.000)	3102	0.10645	0.1064
*	80 Perylene-d12	264	16.759	16.780	(1.000)	857733	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D
Report Date: 31-Aug-2004 17:36

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 16:41 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MB,QC263126
Misc Info : 94212,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

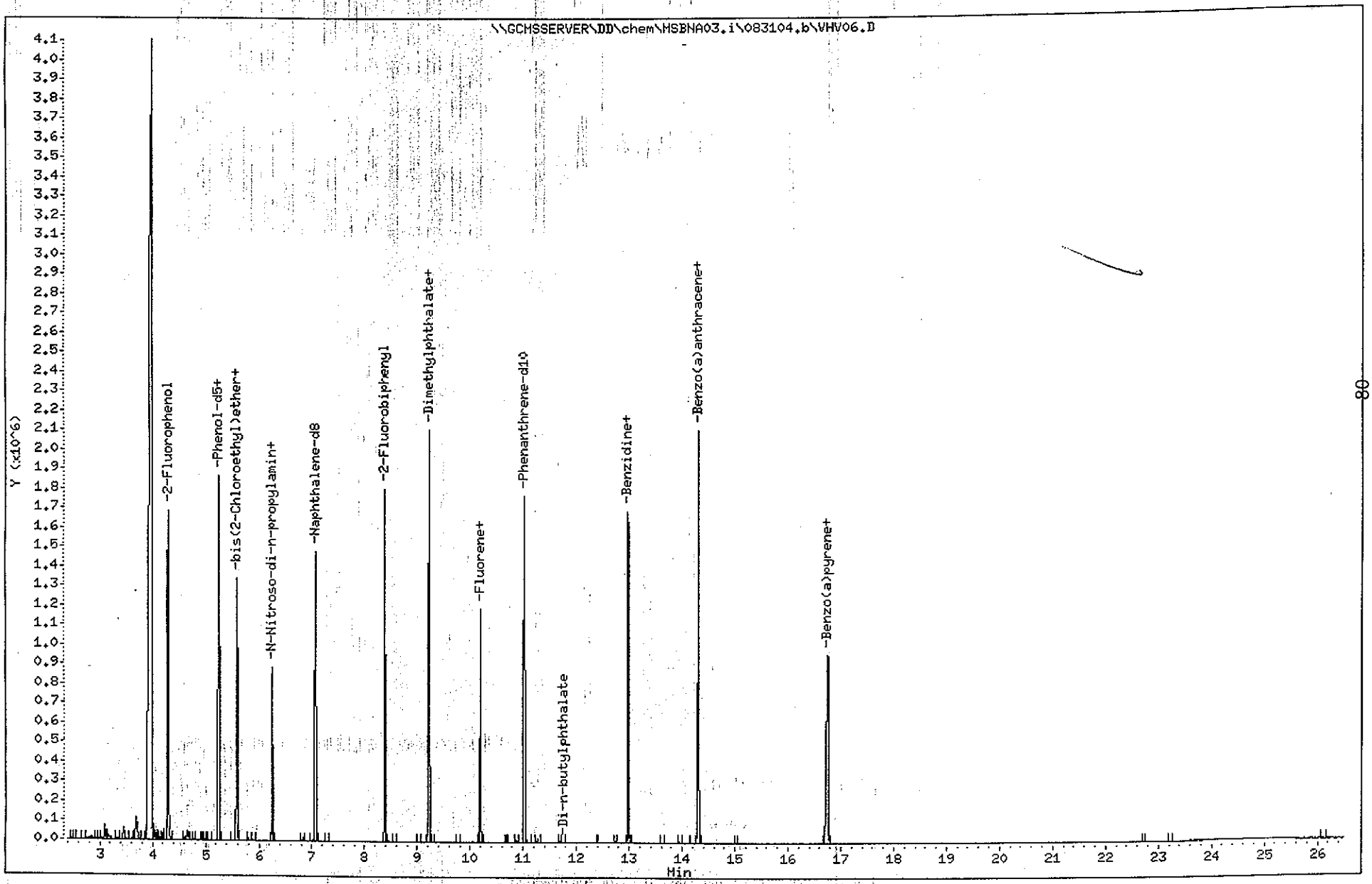
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	5.581	1495553	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
1-Pentanol, 2,3-dimethyl-				CAS #: 10143-23-4			
3.676	309183	8.26939600	8.2693	38	nbs75k.l	3343	10
2-Pentanone, 4-hydroxy-4-methyl-				CAS #: 123-42-2			
3.987	15590768	416.990050	416.9900	39	nbs75k.l	64274	10

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D
Date : 31-AUG-2004 16:41
Client ID: CURTIS&TOMPKINS
Sample Info: MB,QC263126
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

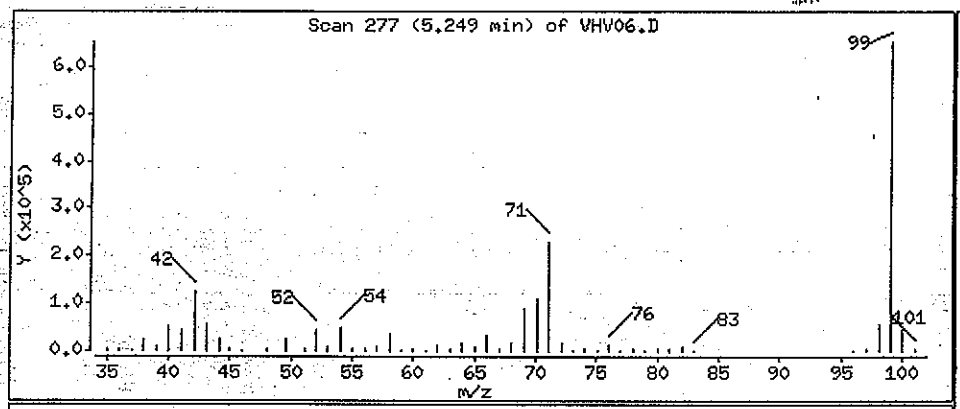
Operator: BVD

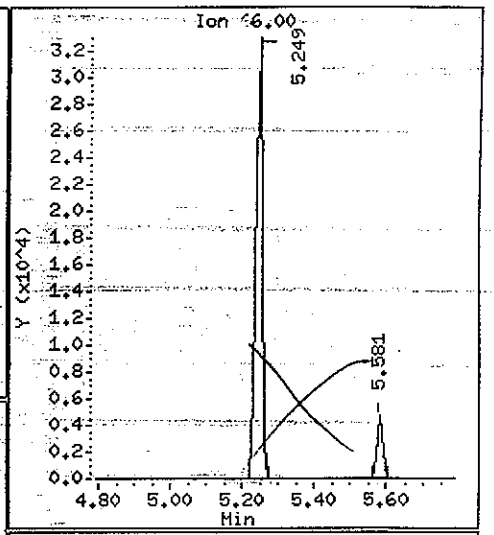
Column phase: Xti 5 x .5 u

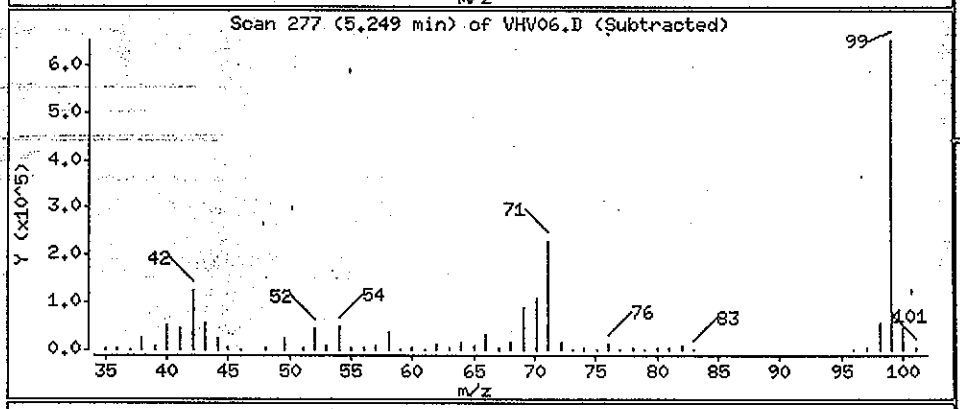
Column diameter: 0.25

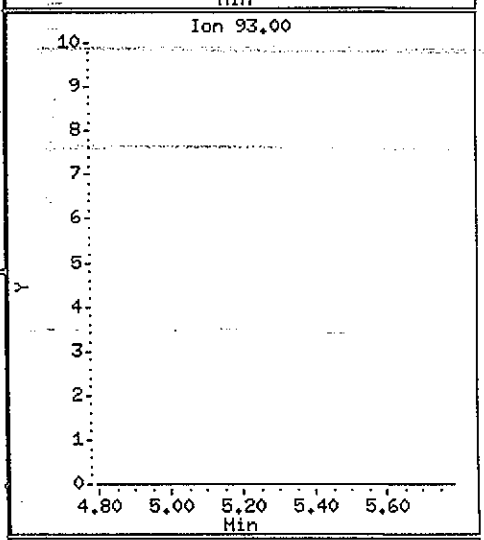
6 Aniline

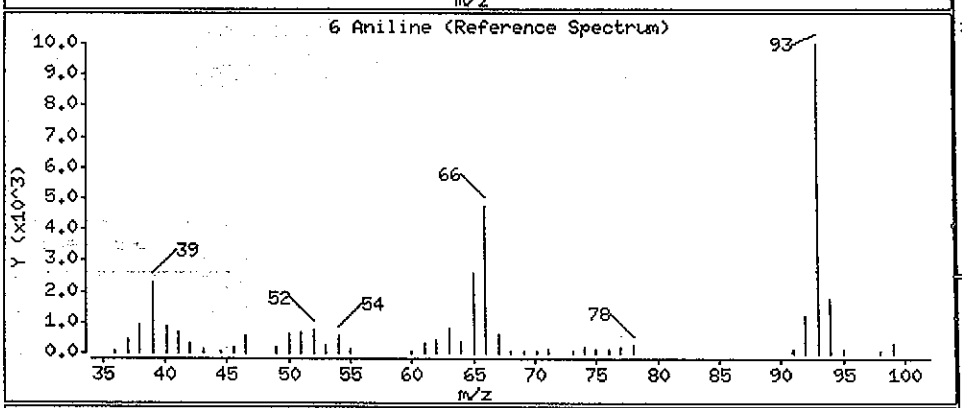
Concentration: 9.8142 ug/L

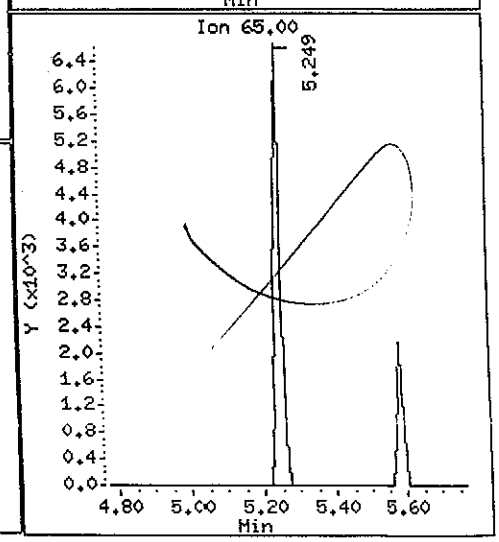


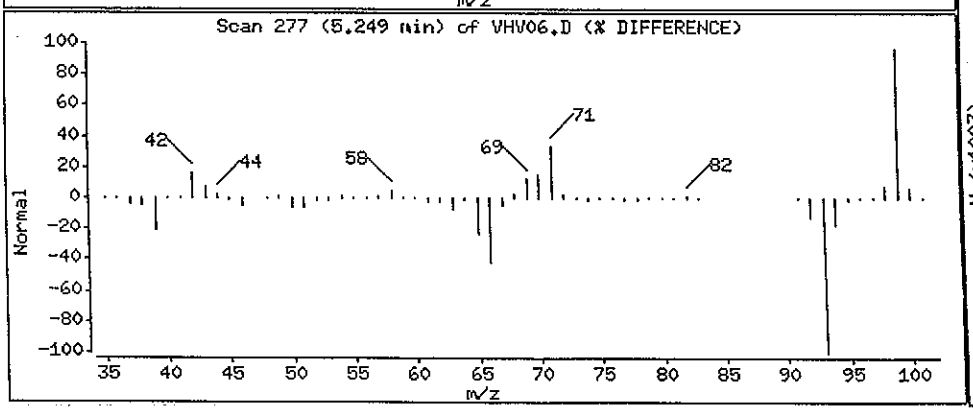












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

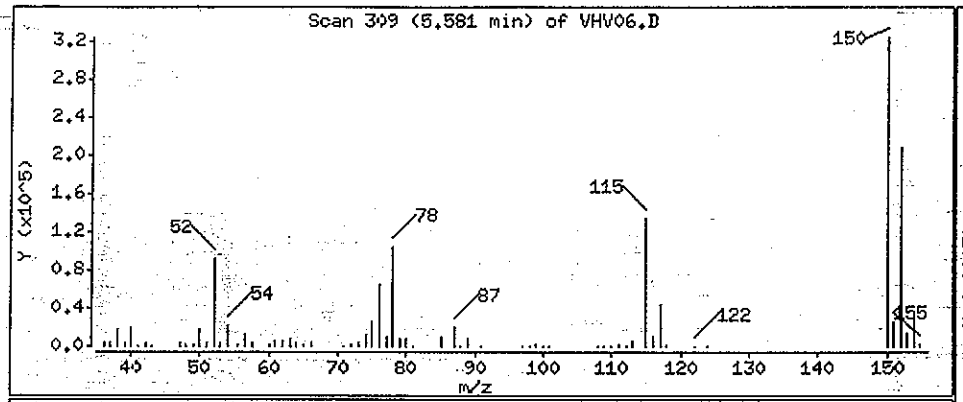
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA03.i

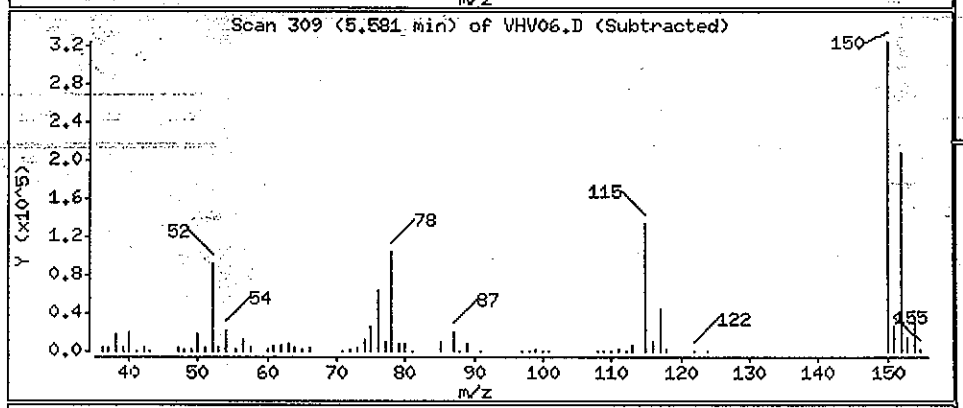
Sample Info: MB,QC263126

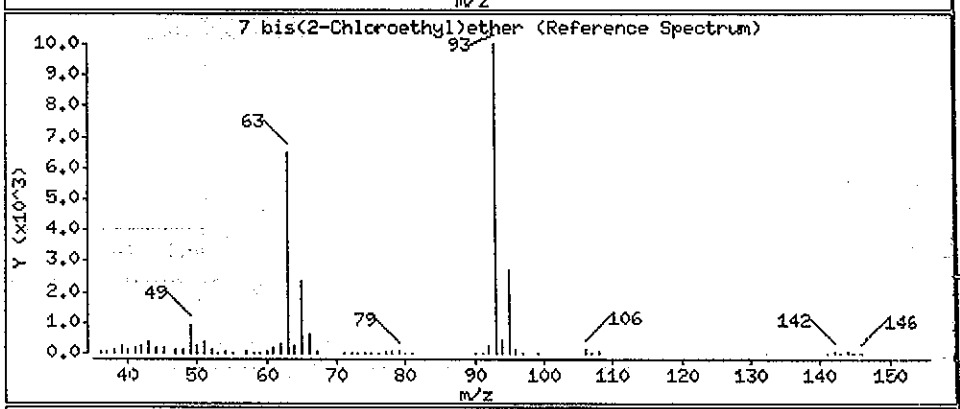
Volume Injected (uL): 1.0 | Operator: BVD

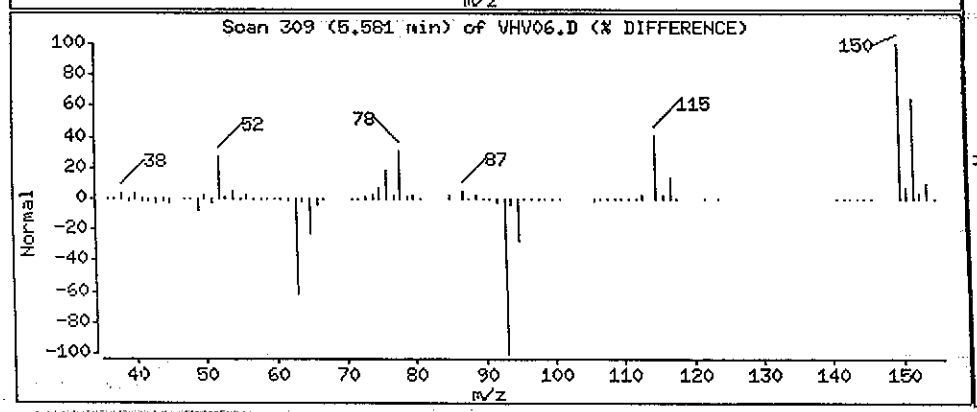
Column phase: Xti 5 x .5 u | Column diameter: 0.25

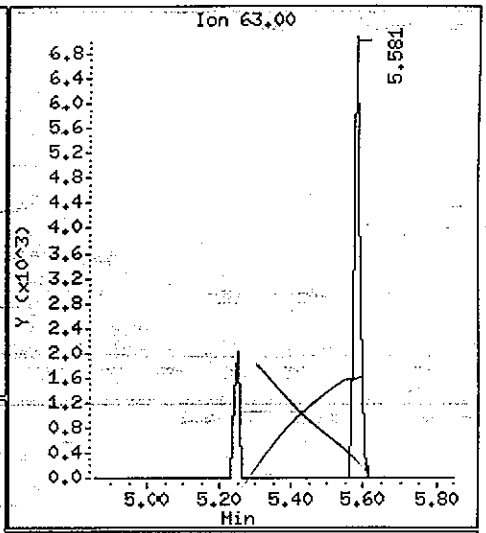
7 bis(2-Chloroethyl)ether | Concentration: 1.1825 ug/L

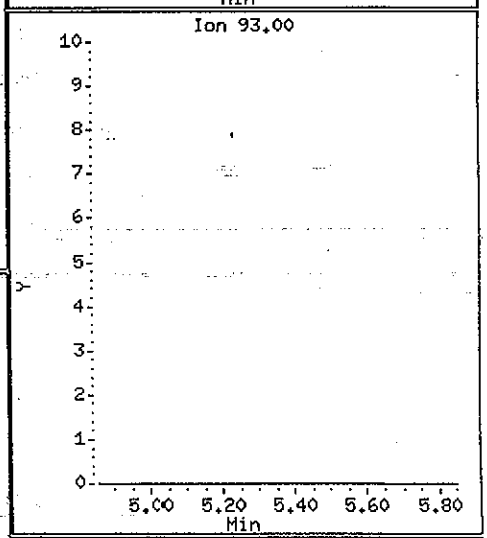


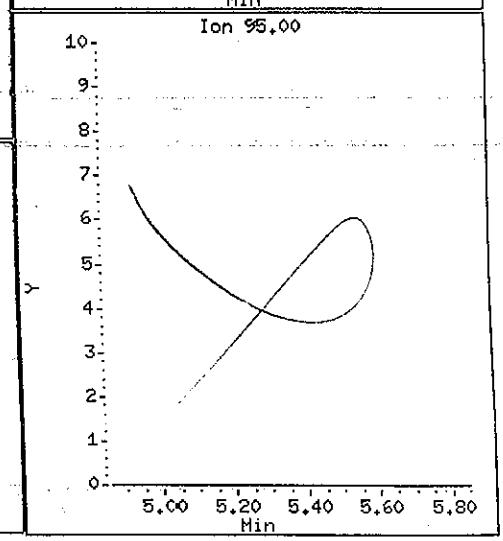












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

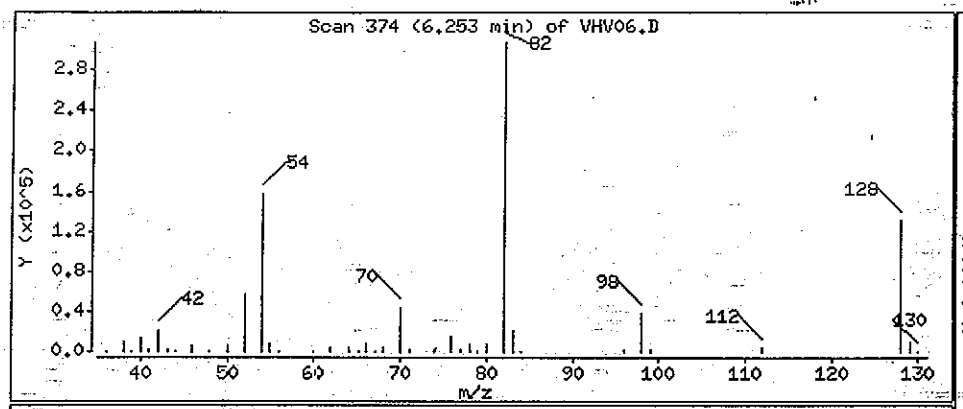
Operator: BVD

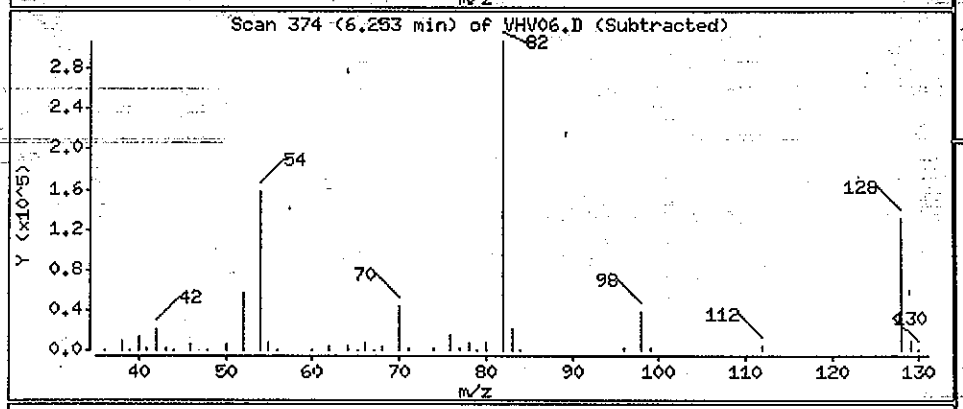
Column phase: Xti 5 x .5 u

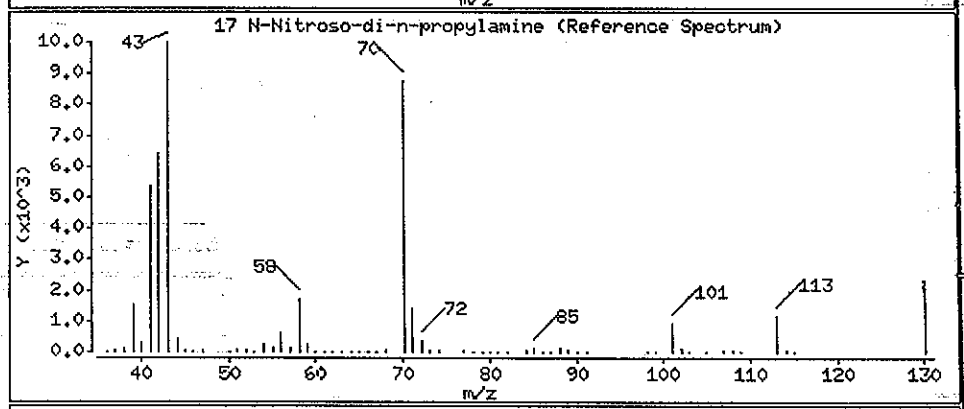
Column diameter: 0.25

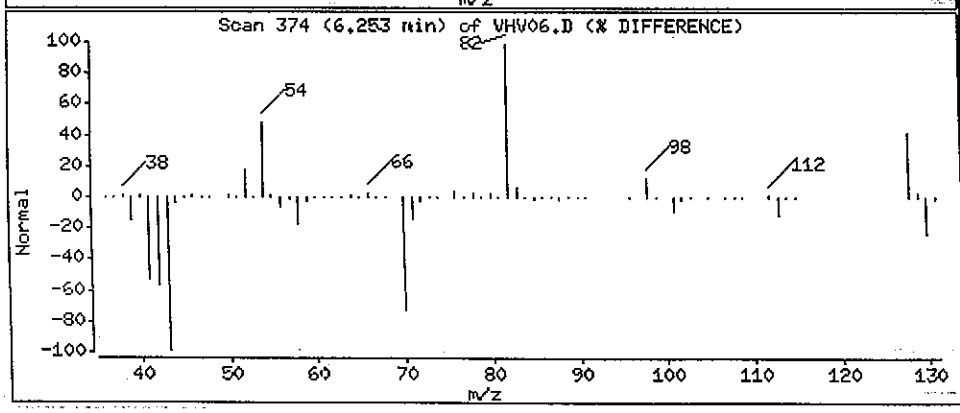
17 N-Nitroso-di-n-propylamine

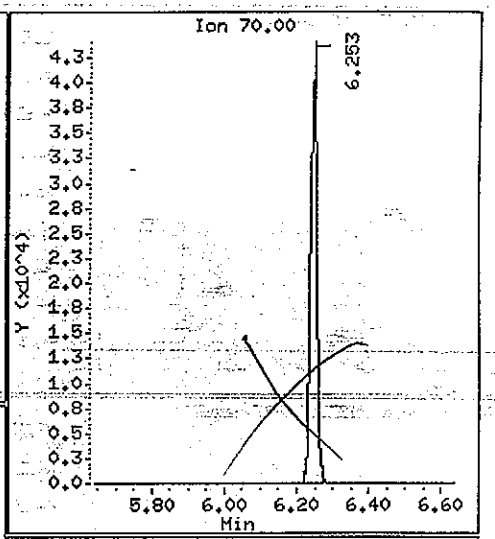
Concentration: 9.3277 ug/L

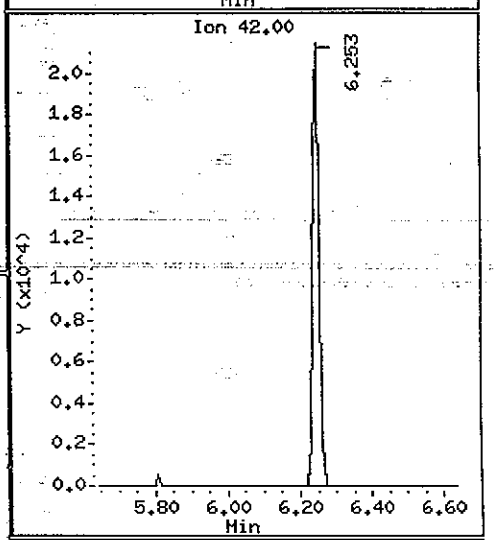


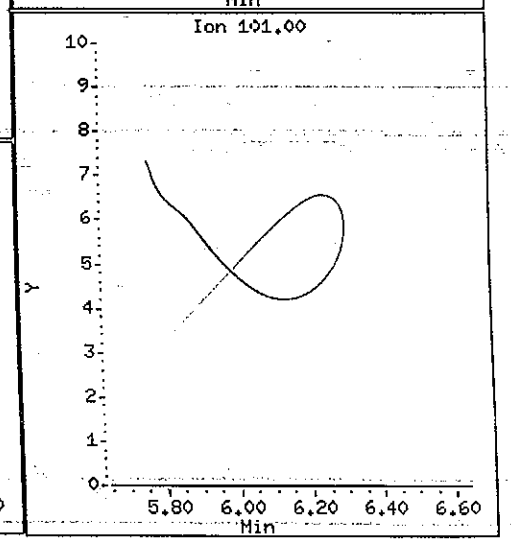












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

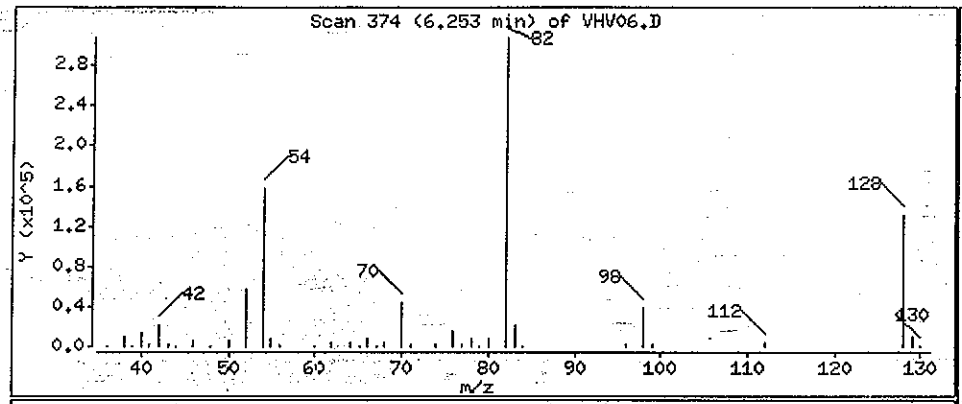
Operator: BVD

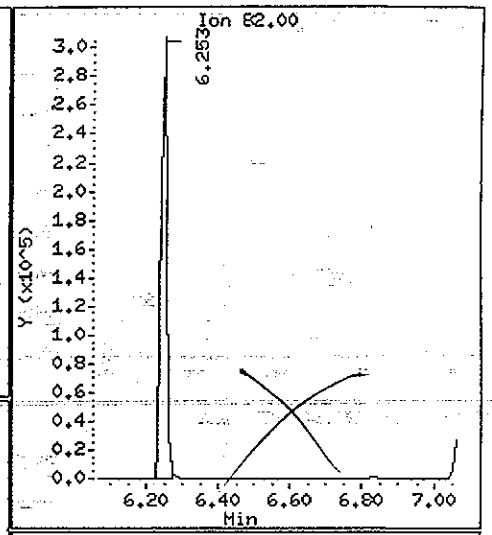
Column phase: Xti 5 x .5 u

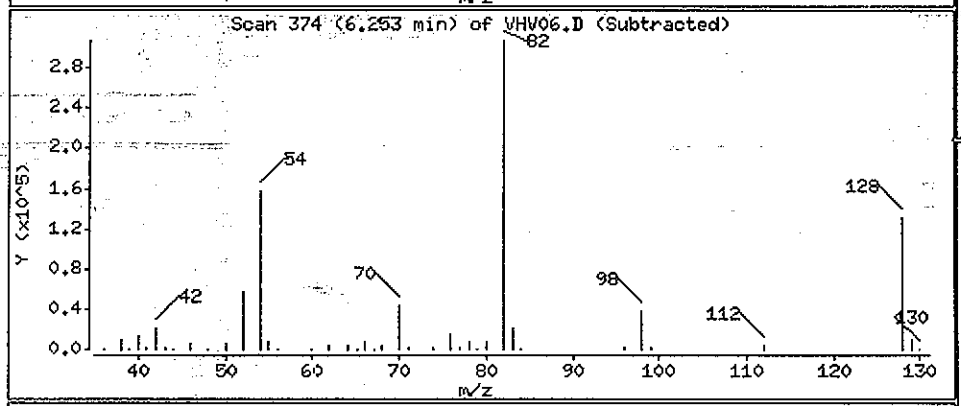
Column diameter: 0.25

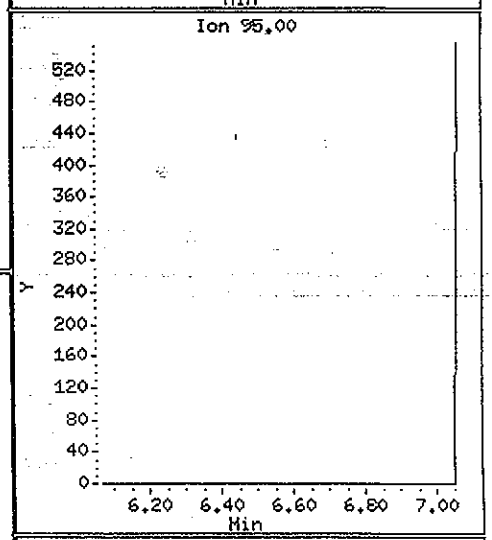
21 Isophorone

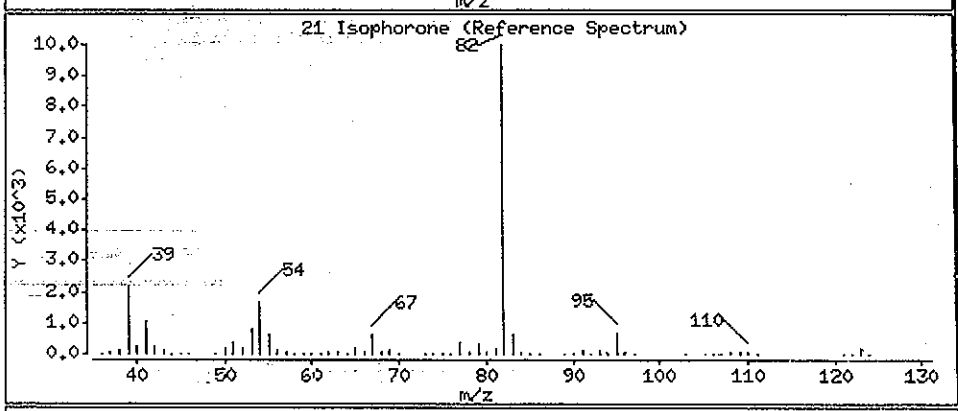
Concentration: 18.8270 ug/L

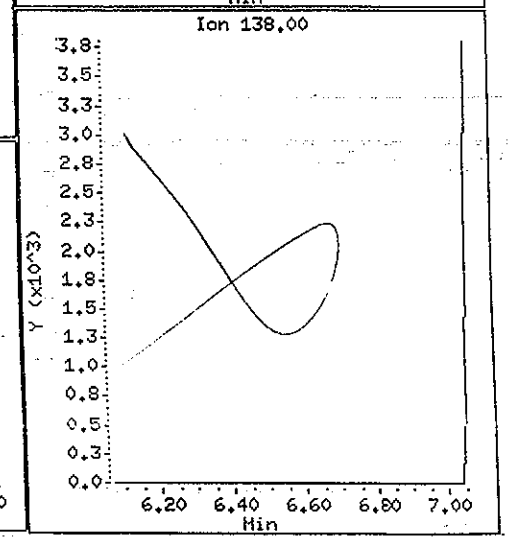


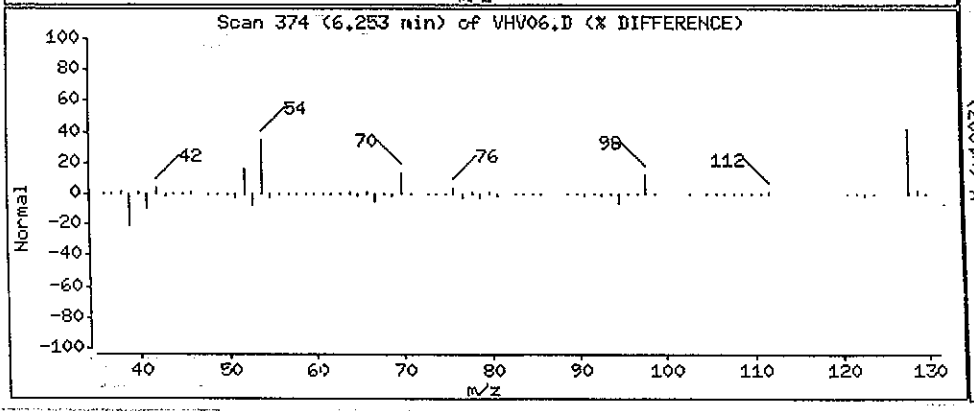












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

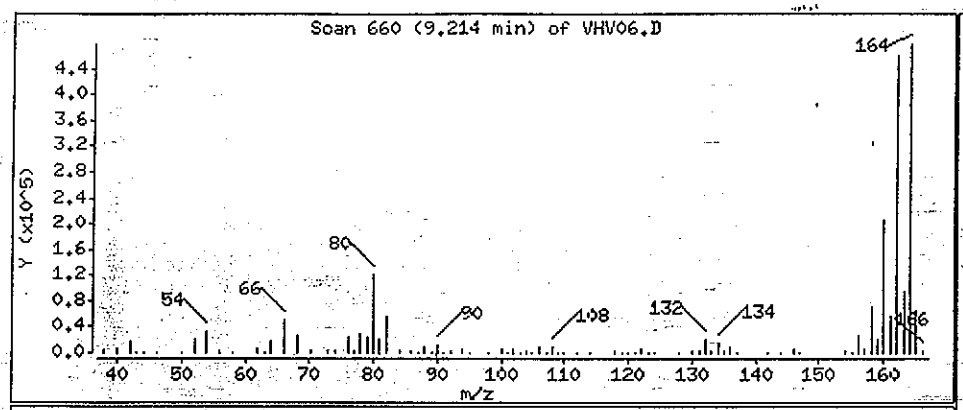
Operator: EVD

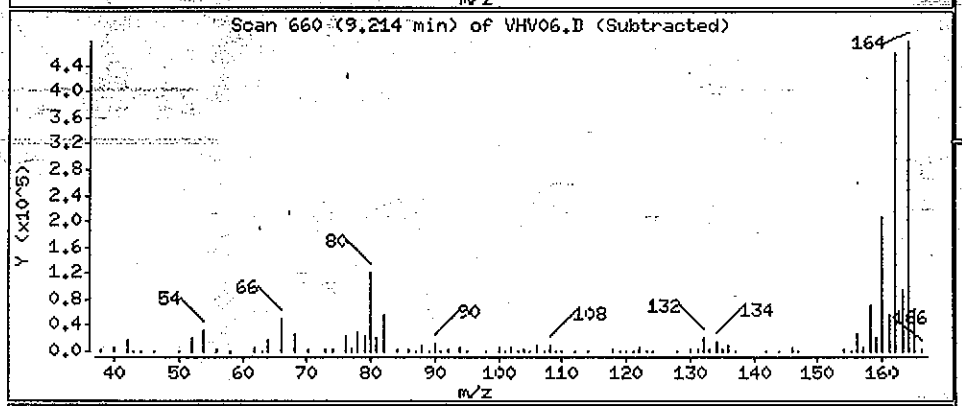
Column phase: Xti 5 x .5 u

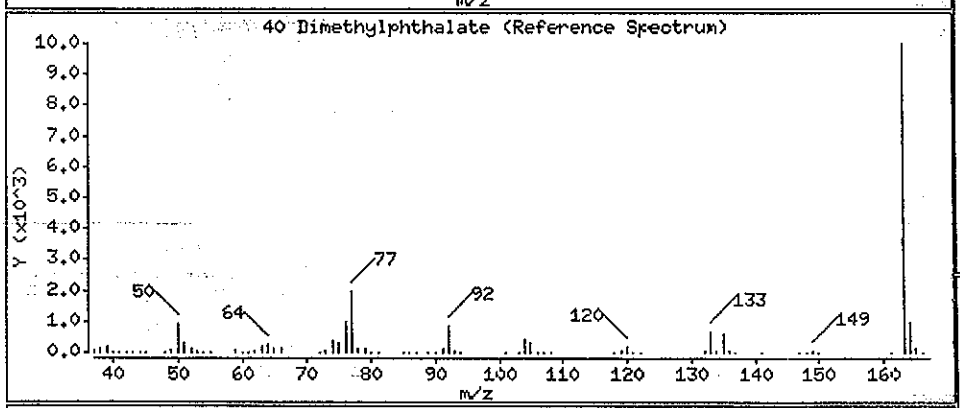
Column diameter: 0.25

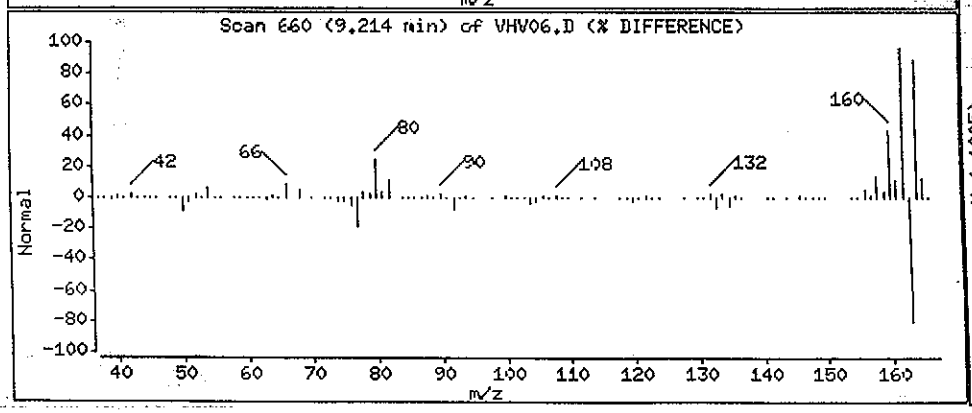
40 Dimethylphthalate

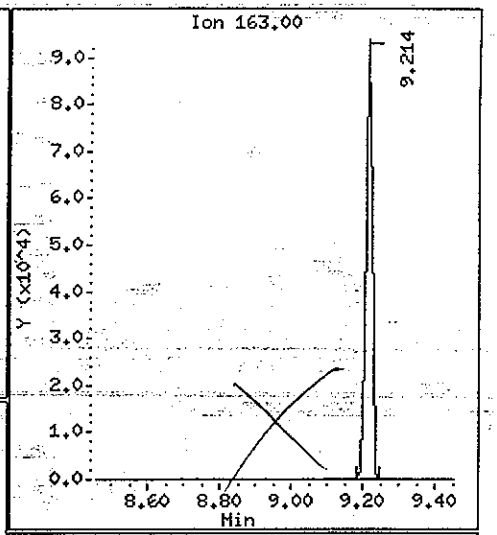
Concentration: 6.3546 ug/L

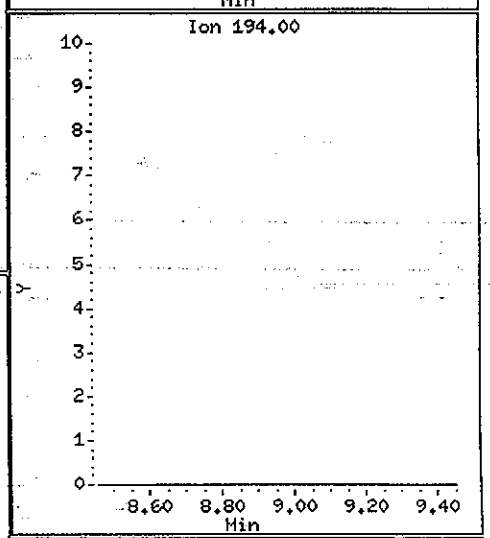


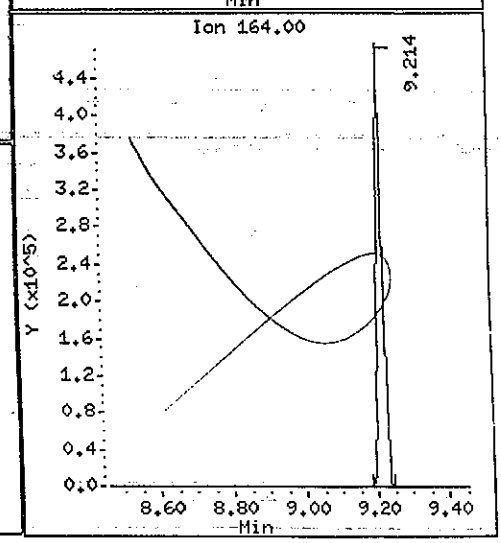












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

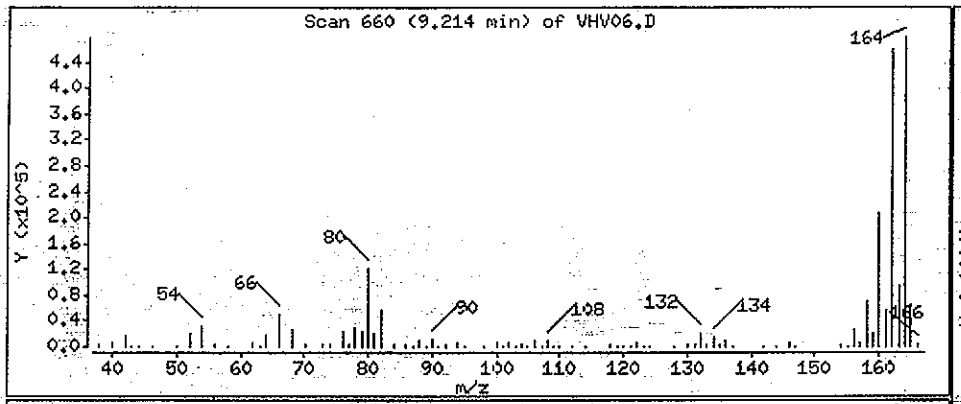
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA03.i

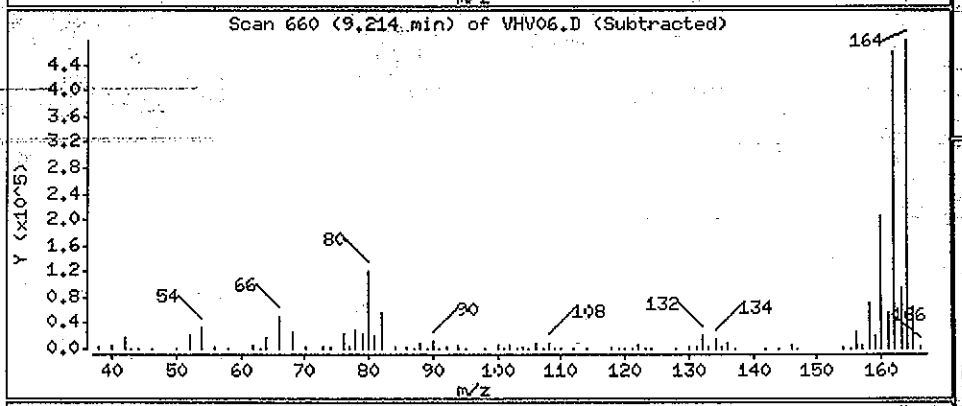
Sample Info: MB,QC263126

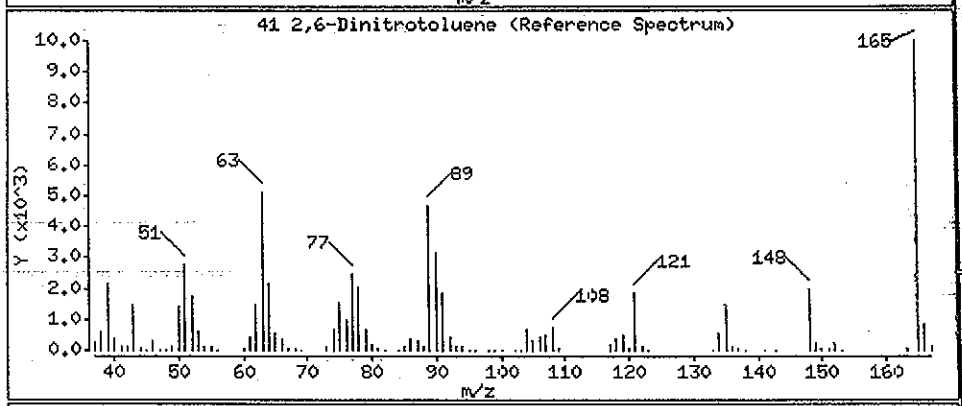
Volume Injected (uL): 1.0 | Operator: BVD

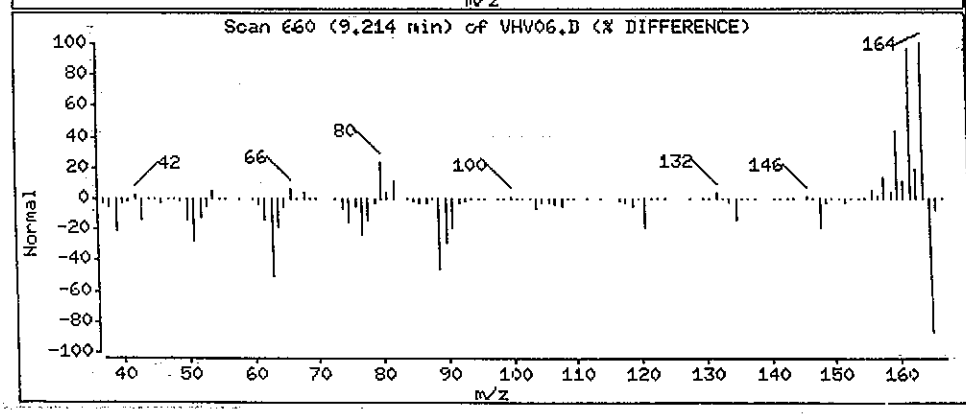
Column phase: Xti 5 x .5 u | Column diameter: 0.25

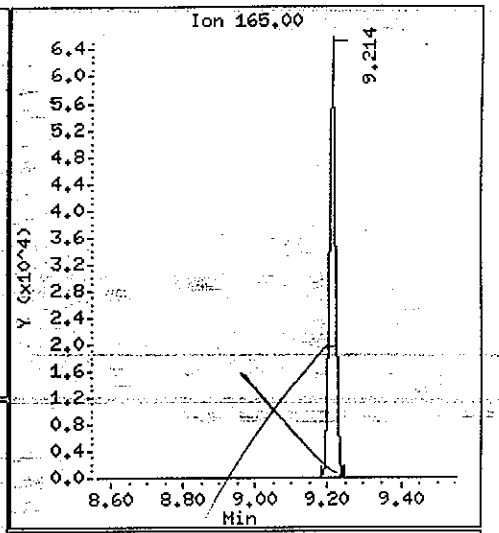
41 2,6-Dinitrotoluene | Concentration: 15.9294 ug/L

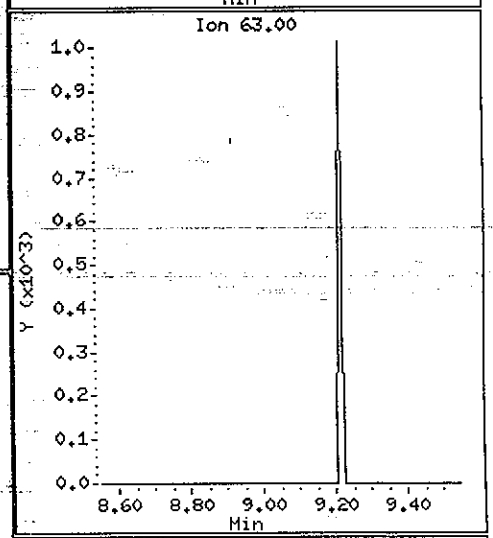


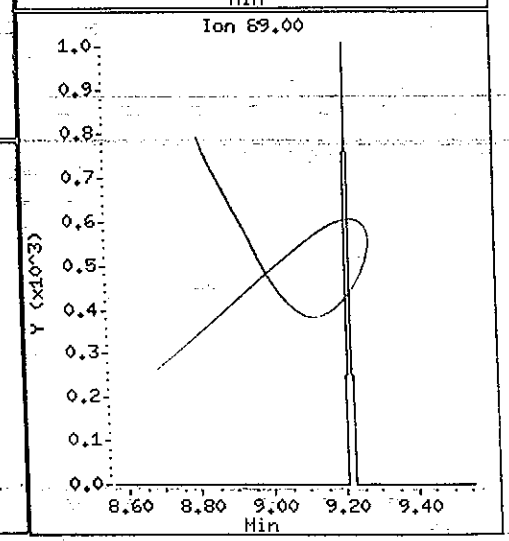












Data File: \\CCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

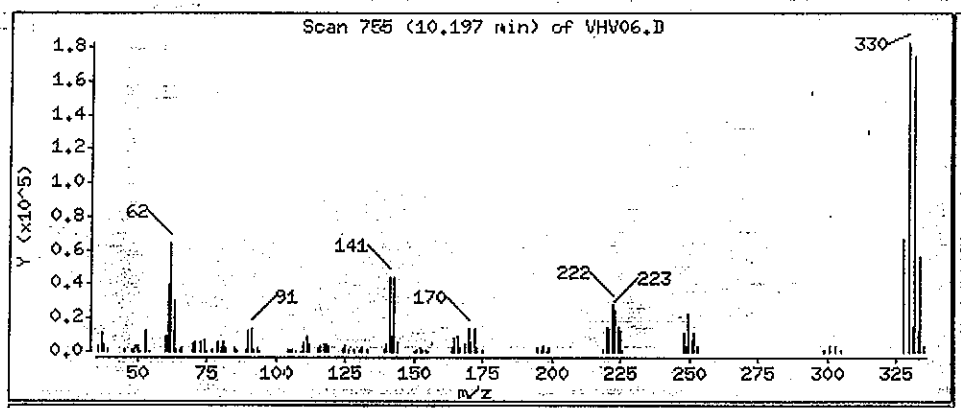
Operator: BVD

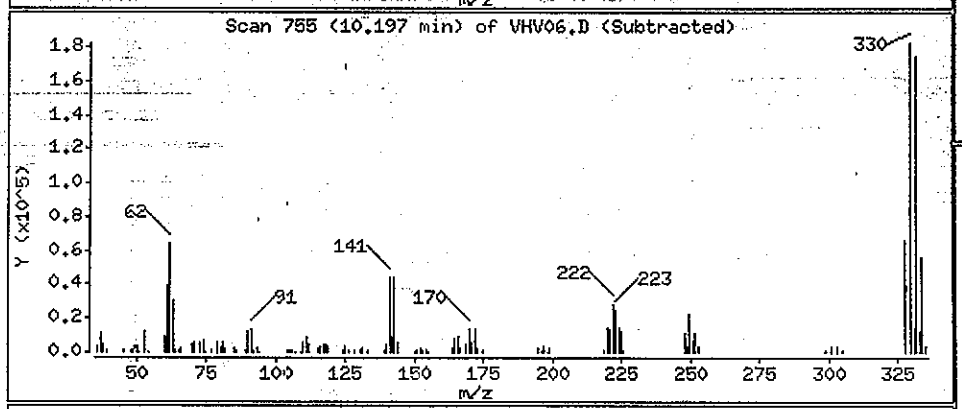
Column phase: Xti 5 x .5 u

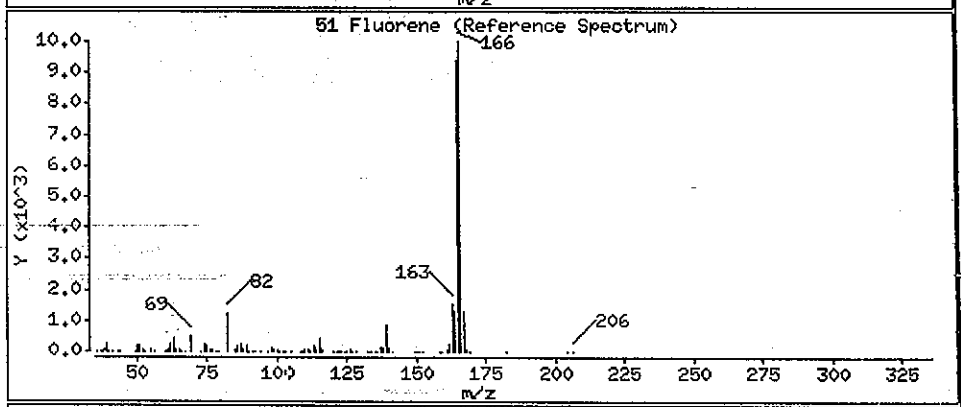
Column diameter: 0.25

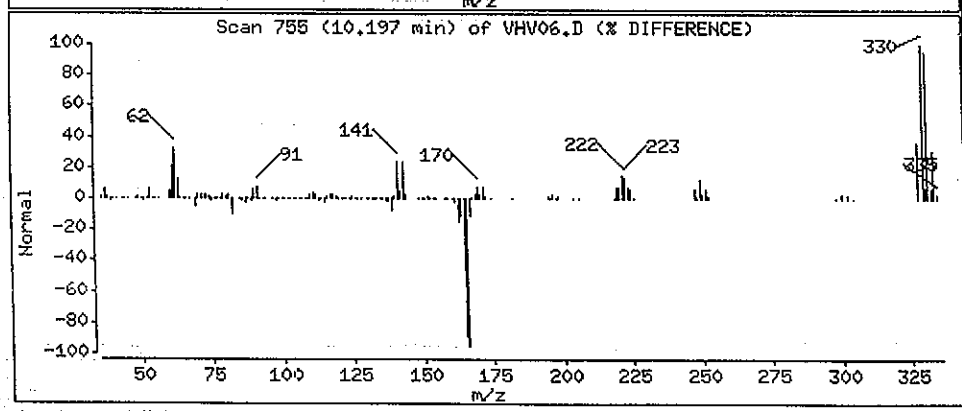
51 Fluorene

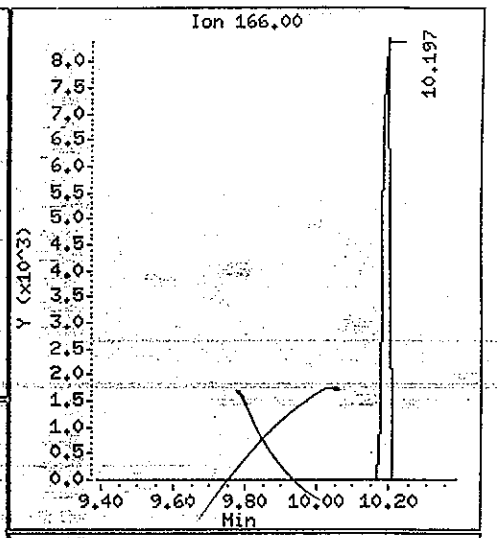
Concentration: 0.5956 ug/L

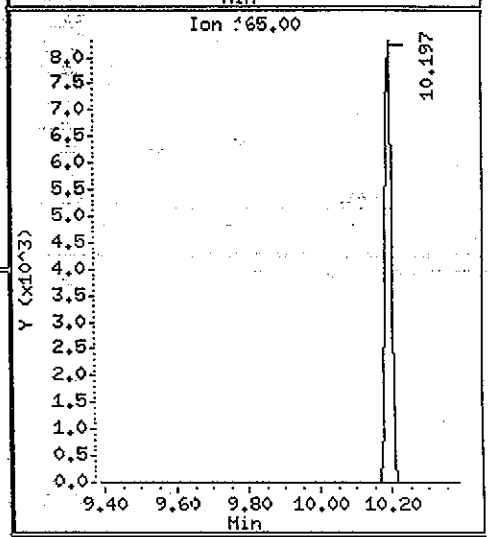


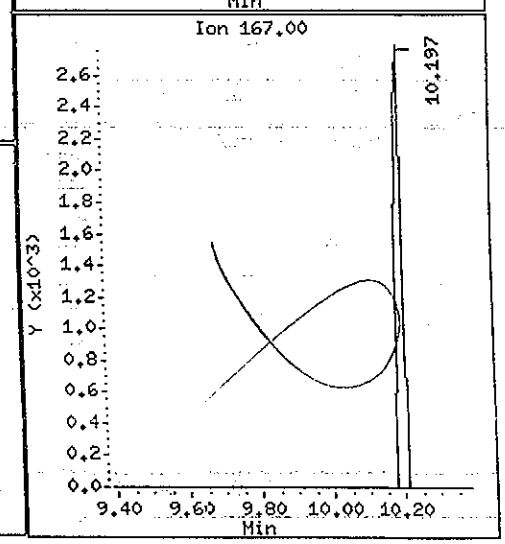












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

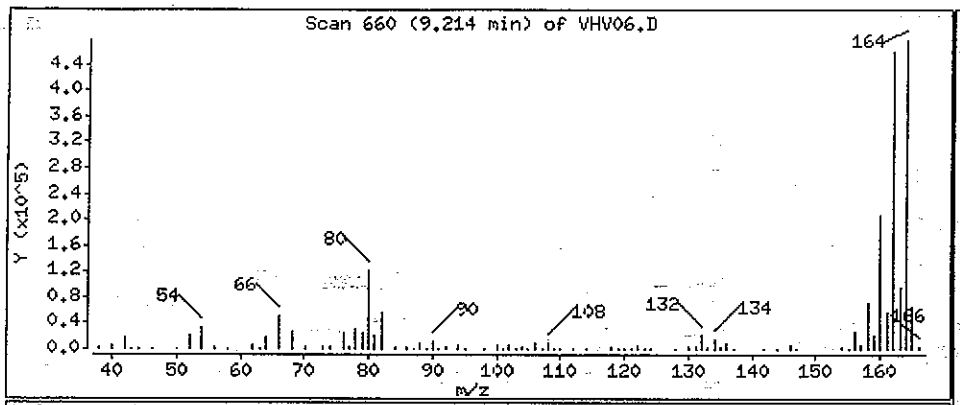
Operator: BVD

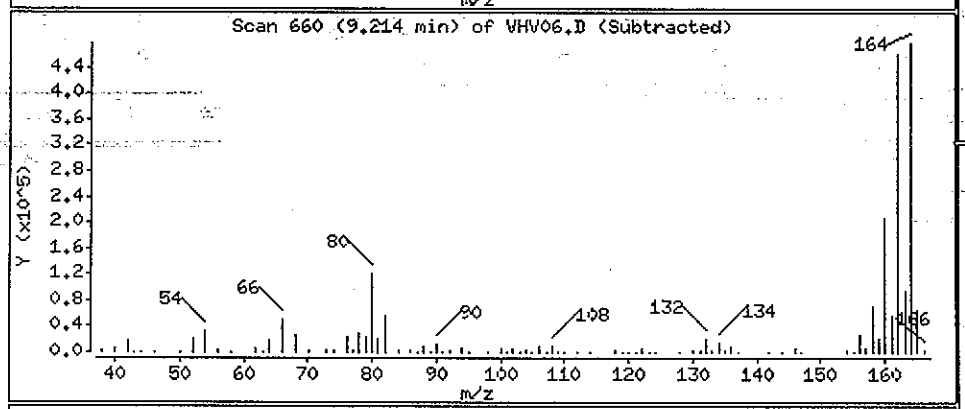
Column phase: Xti 5 x .5 u

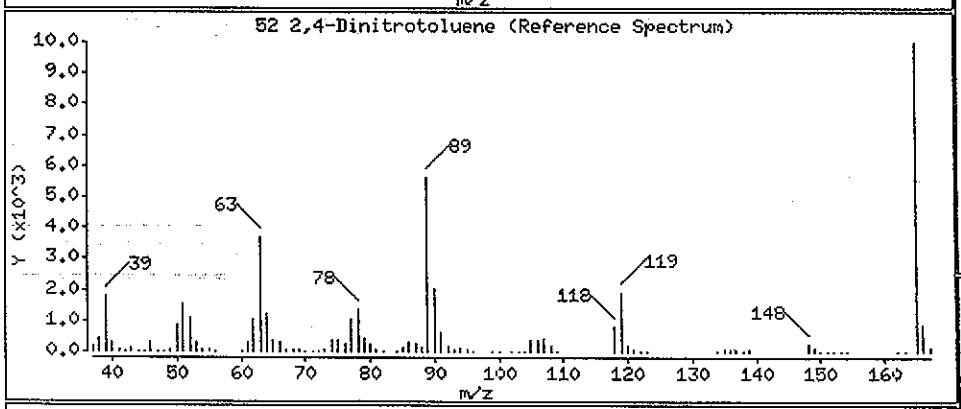
Column diameter: 0.25

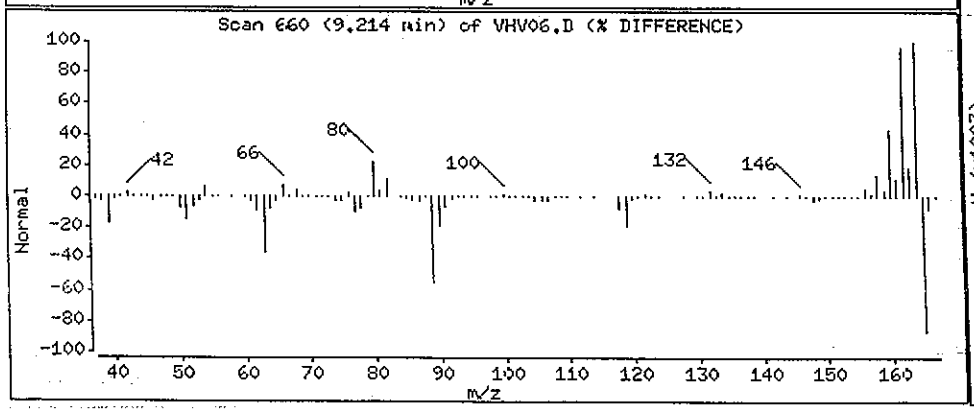
52 2,4-Dinitrotoluene

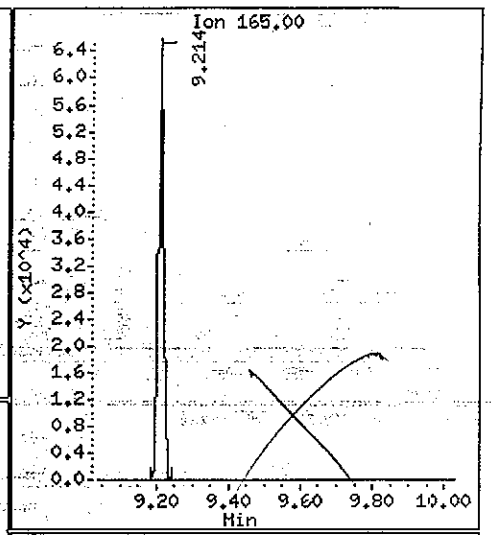
Concentration: 12.8781 ug/L

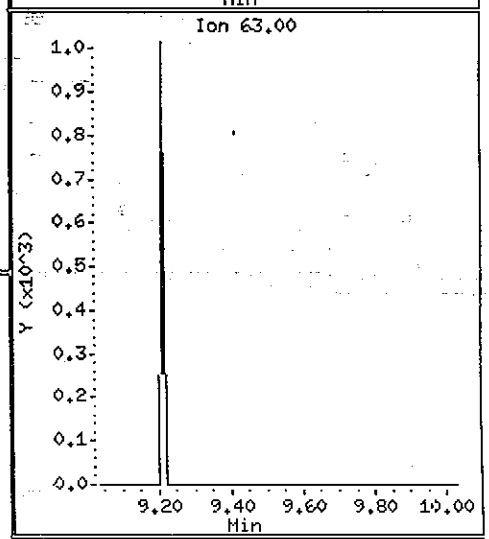


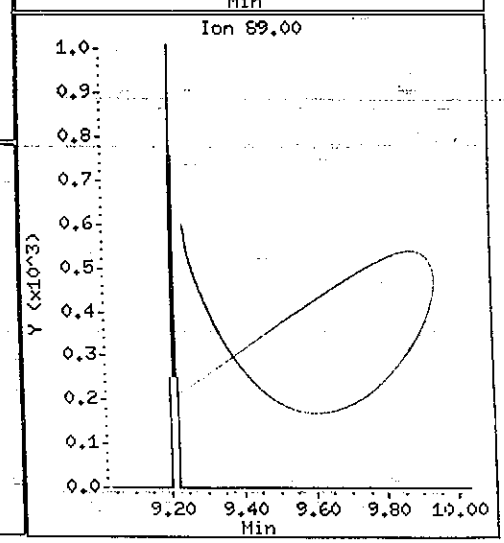












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

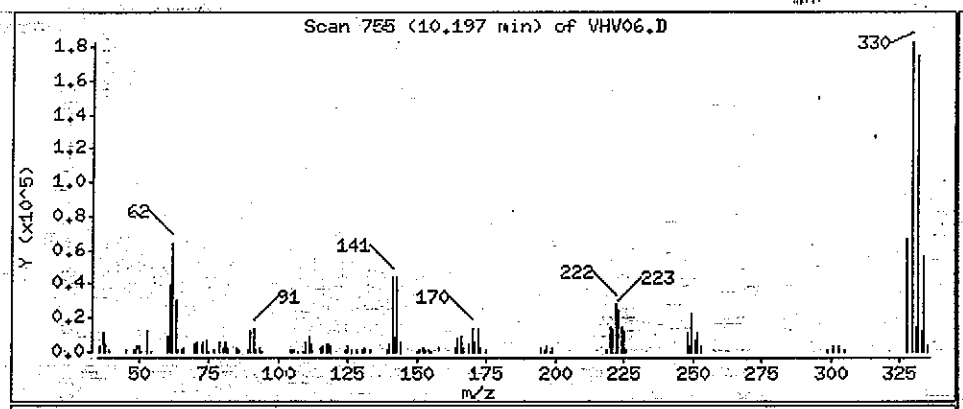
Operator: BVD

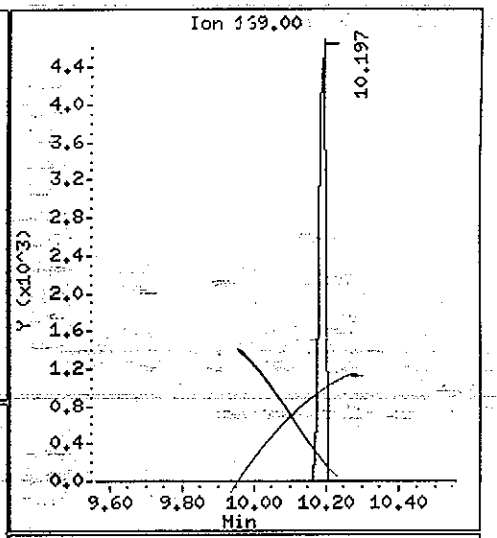
Column phase: Xti 5 x .5 u

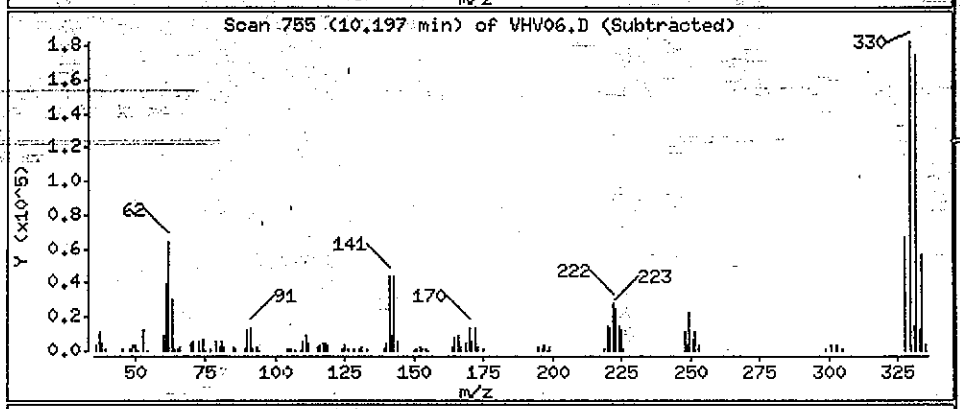
Column diameter: 0.25

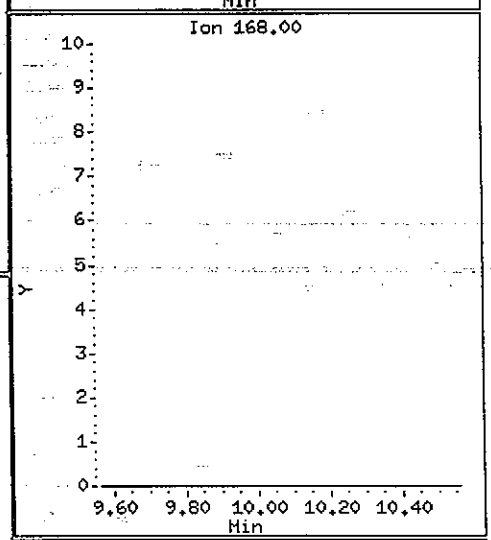
55 N-Nitrosodiphenylamine

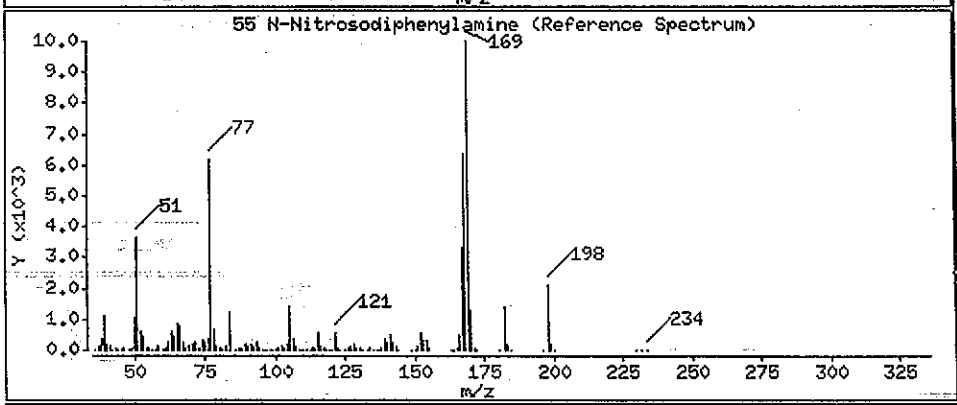
Concentration: 0.4534 ug/L

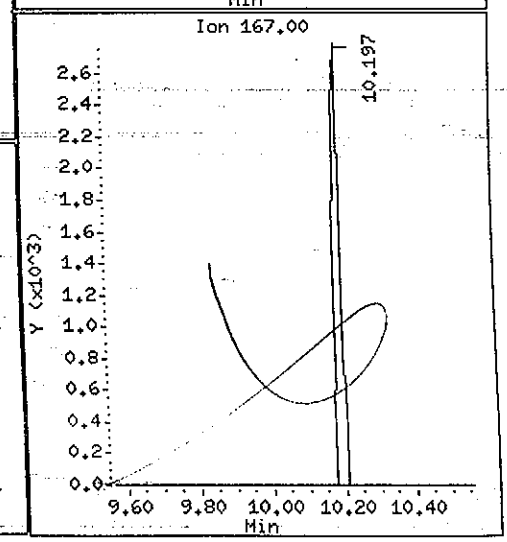


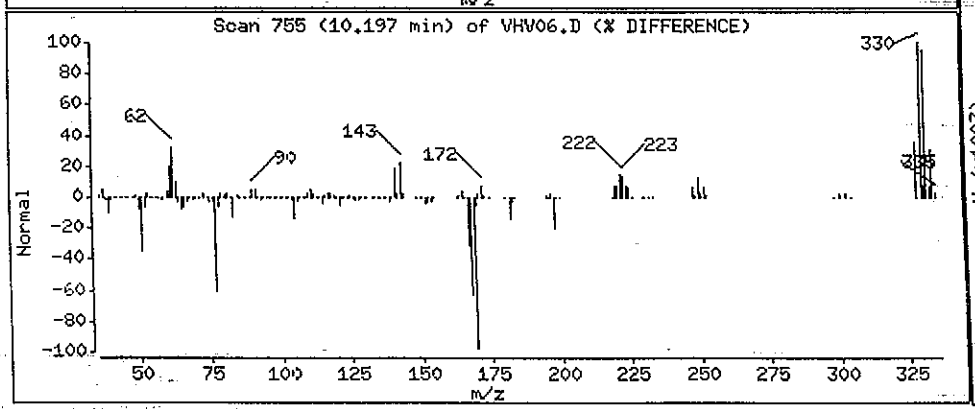












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

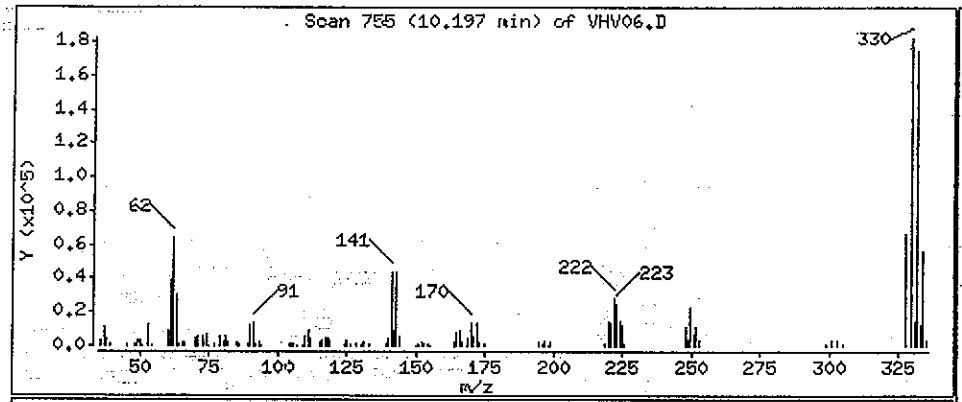
Operator: BVD

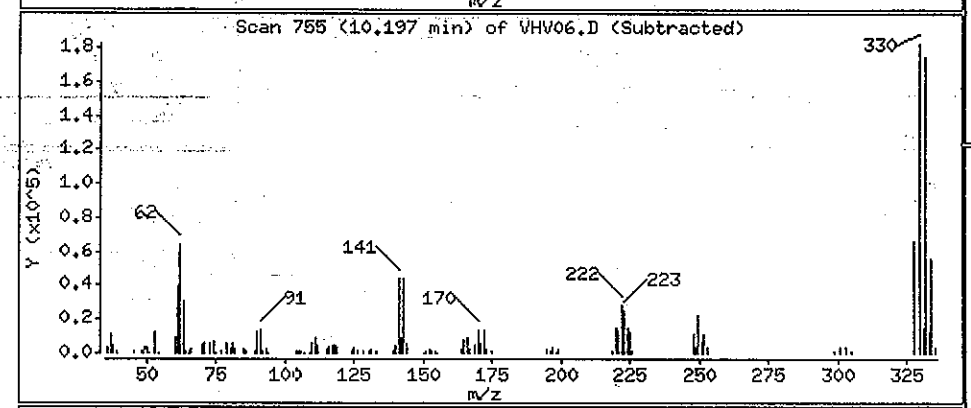
Column phase: Xti 5 x .5 u

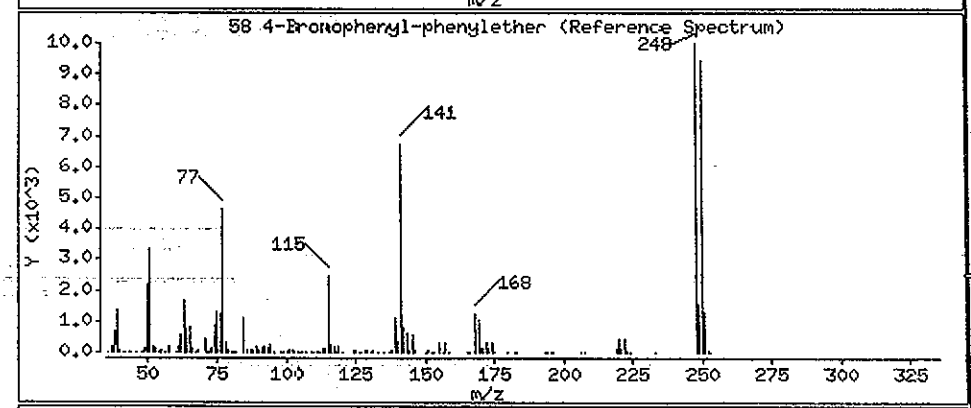
Column diameter: 0.25

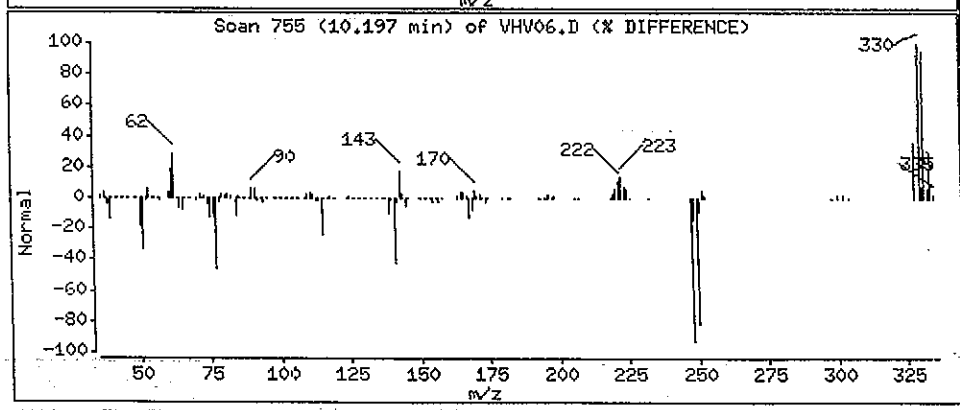
58 4-Bromophenyl-phenylether

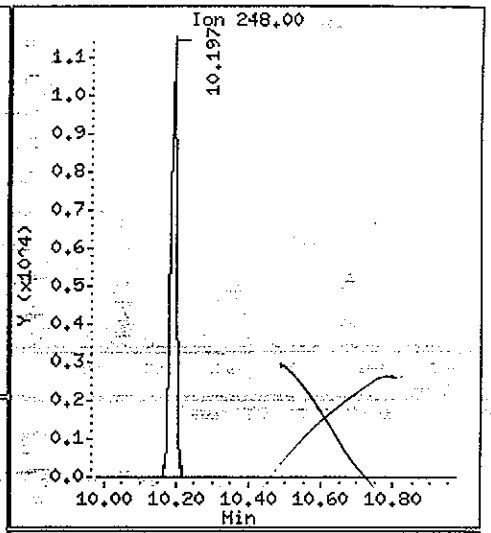
Concentration: 1.9854 ug/L

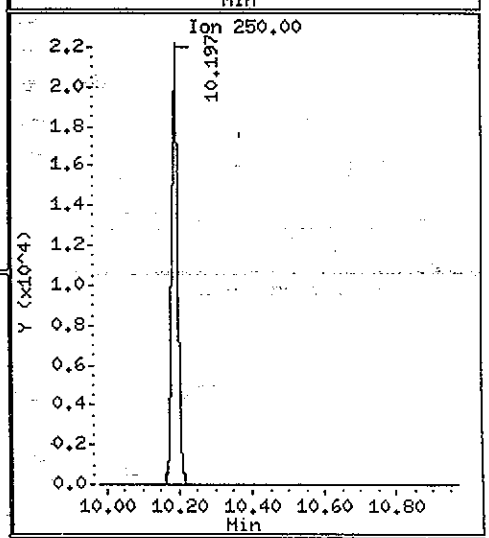


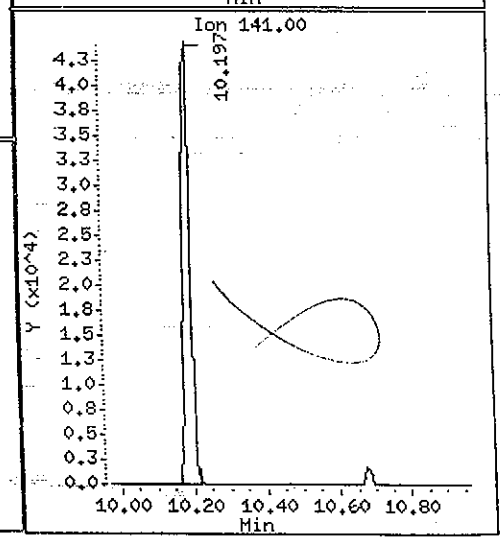












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

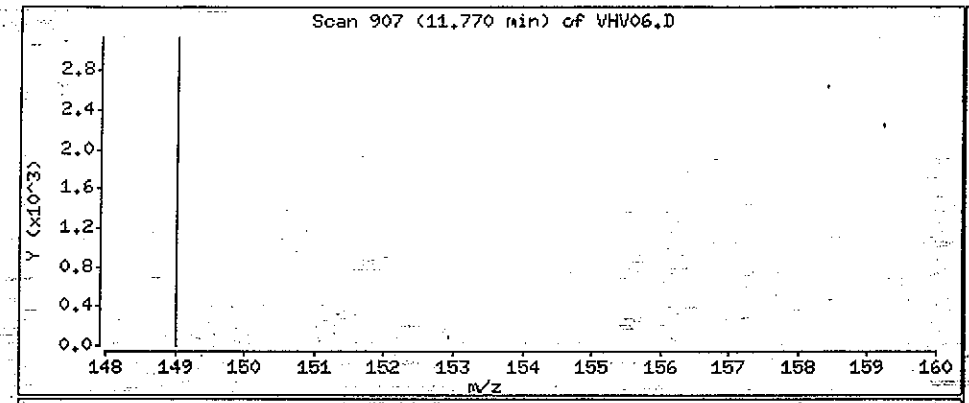
Operator: BVD

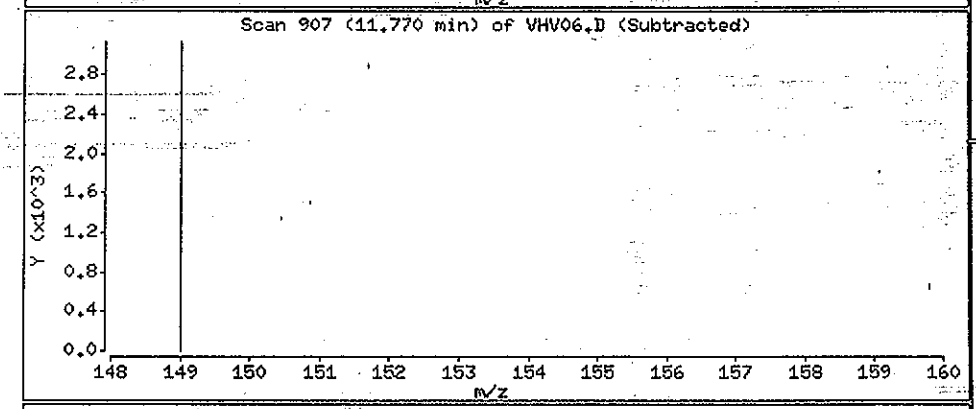
Column phase: Xti 5 x .5 u

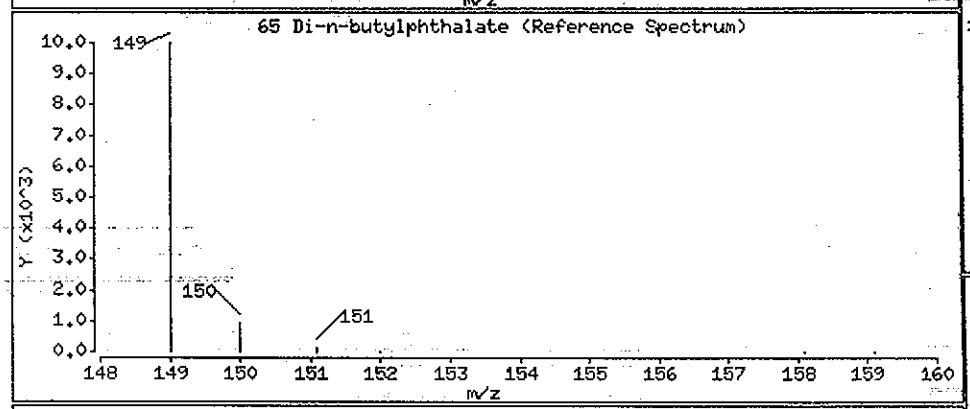
Column diameter: 0.25

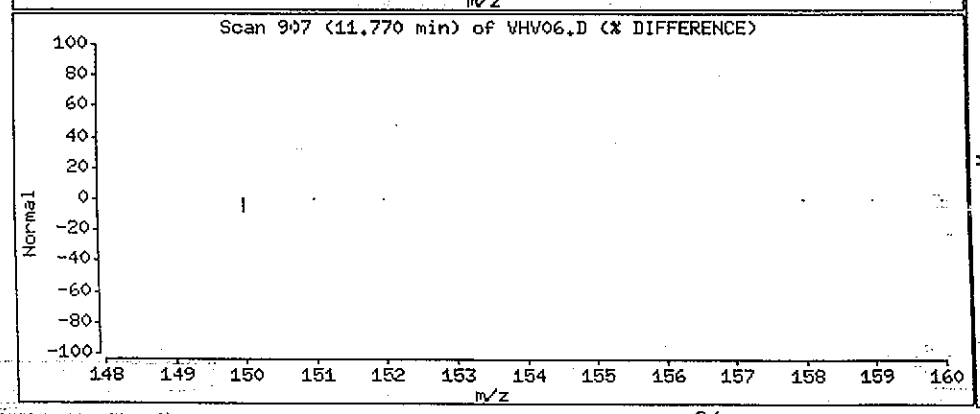
65 Di-n-butylphthalate

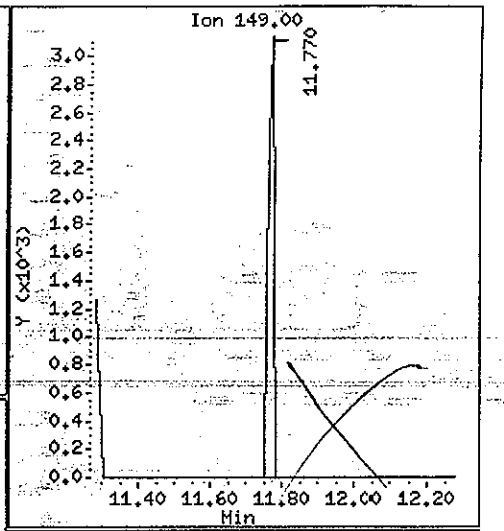
Concentration: 0.1130 ug/L

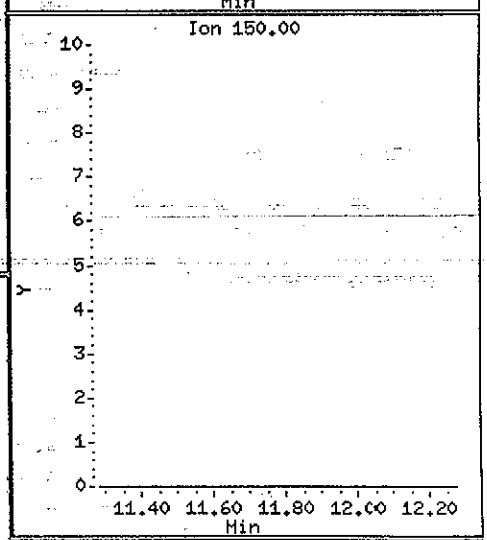


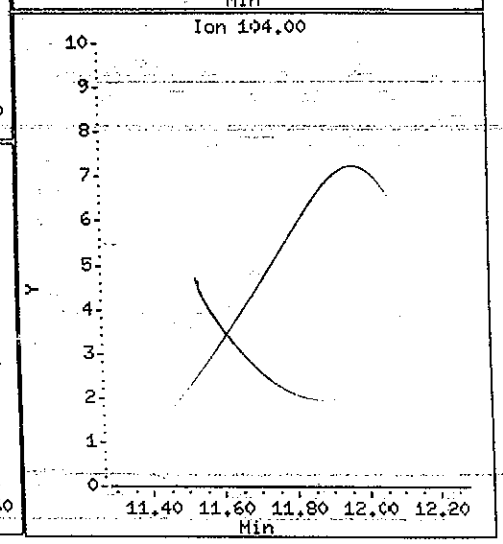












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

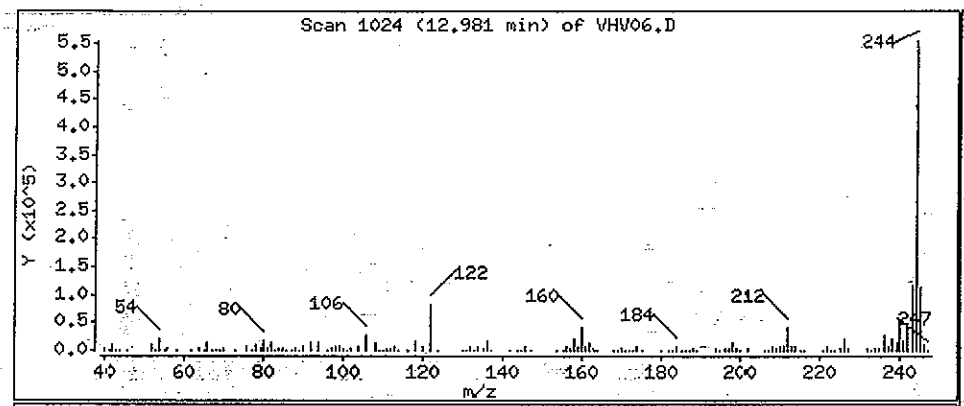
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA03.i

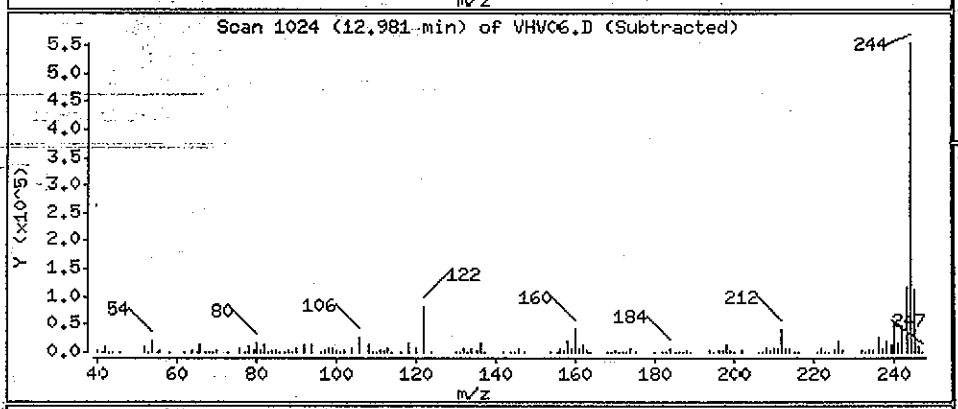
Sample Info: MB,QC263126

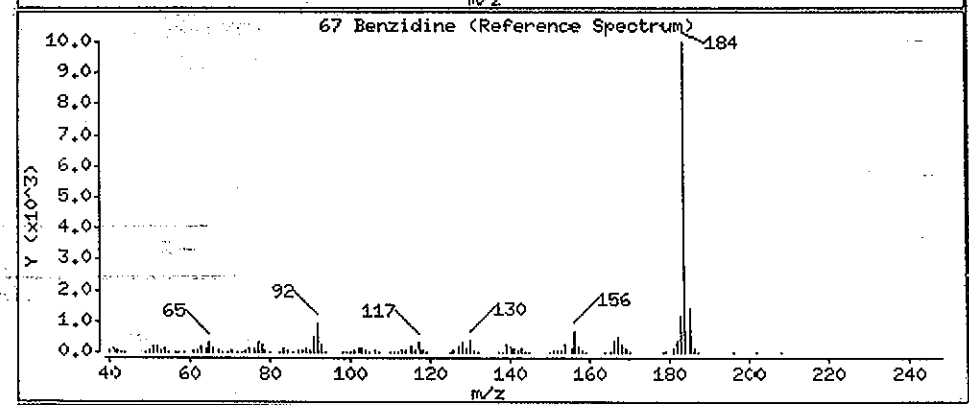
Volume Injected (uL): 1.0 | Operator: BVD

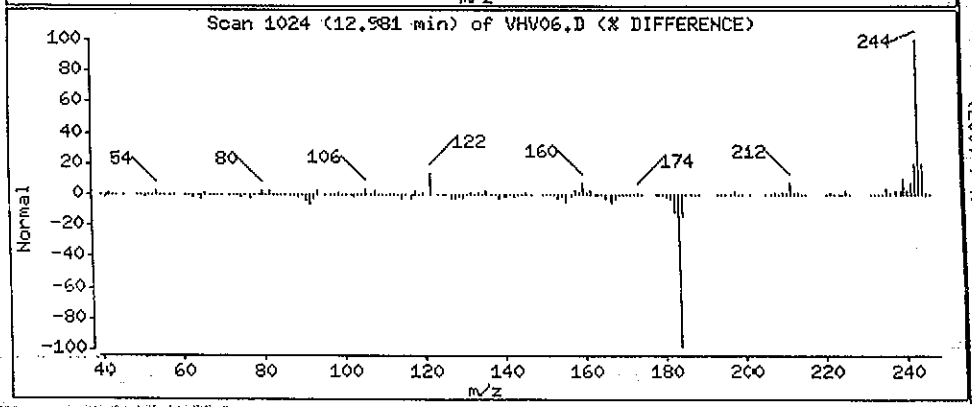
Column phase: Xti 5 x .5 u | Column diameter: 0.25

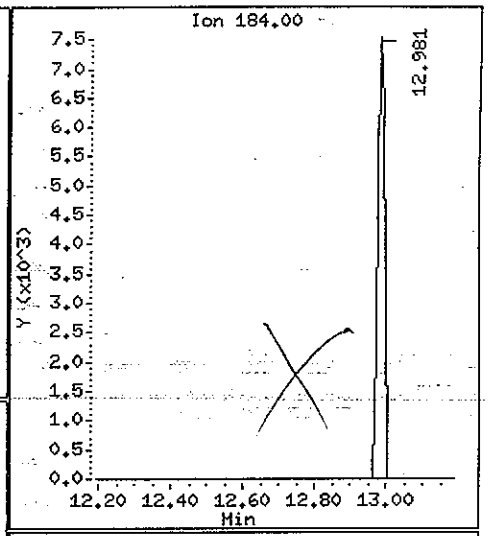
67 Benzidine | Concentration: 10.6755 ug/L

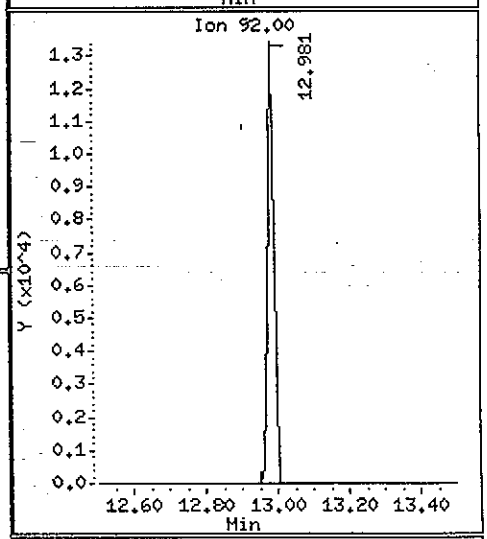


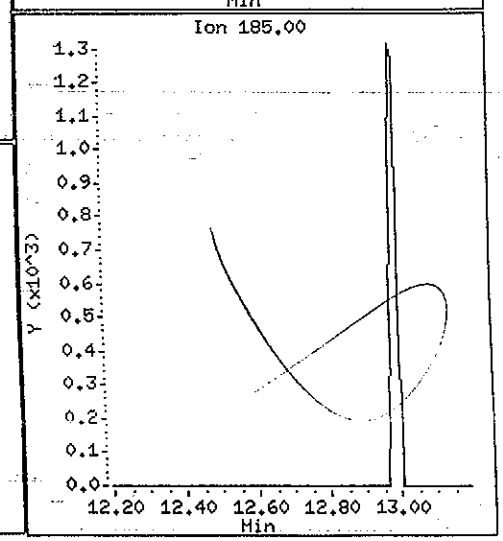












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

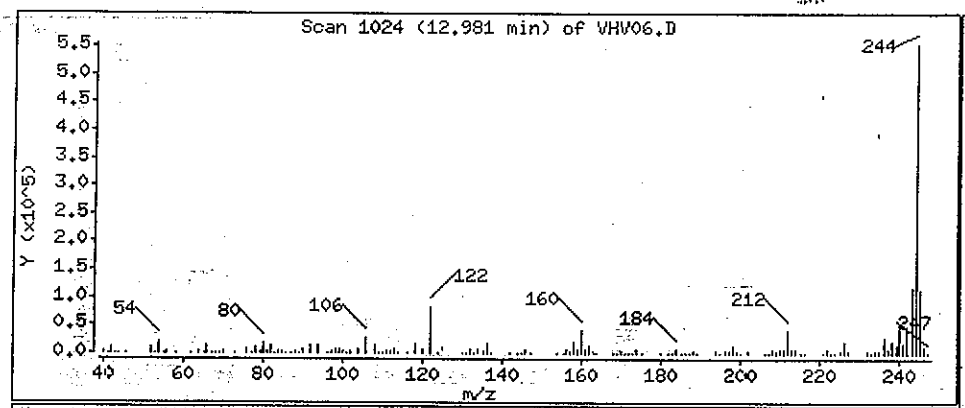
Operator: BVD

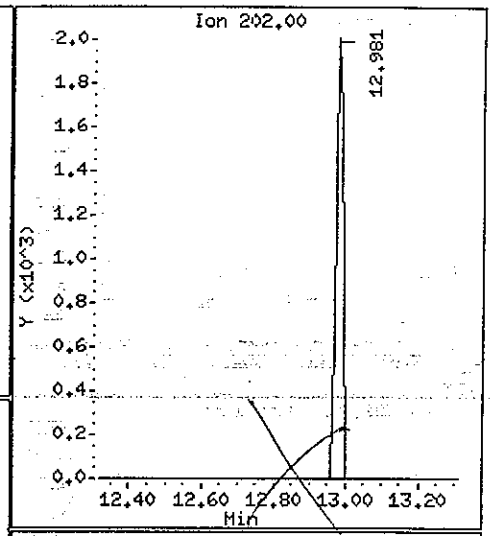
Column phase: Xti 5 x .5 u

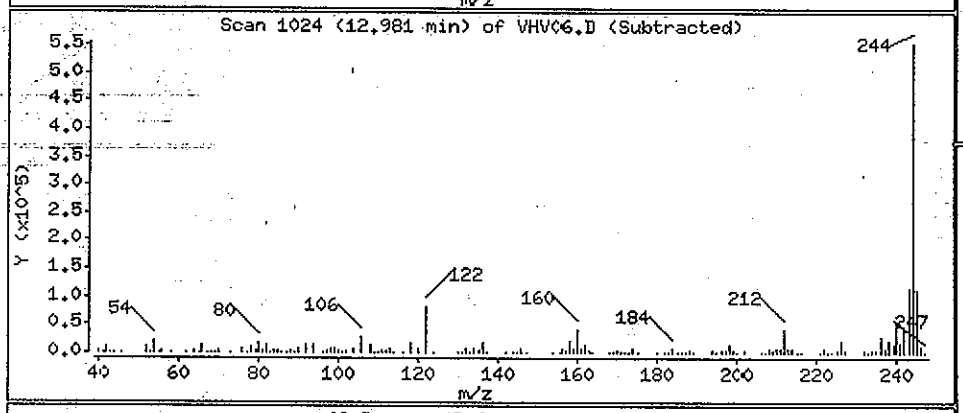
Column diameter: 0.25

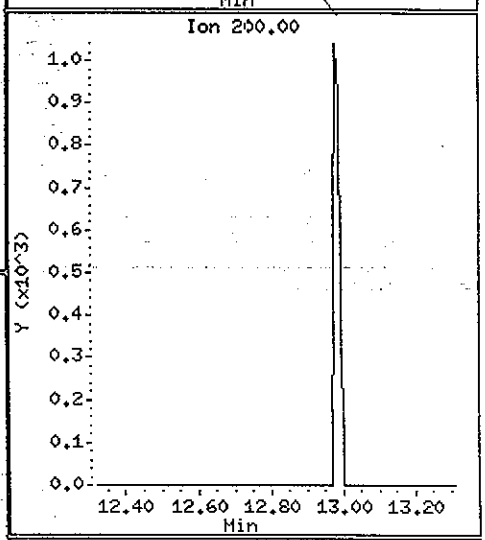
68 Pyrene

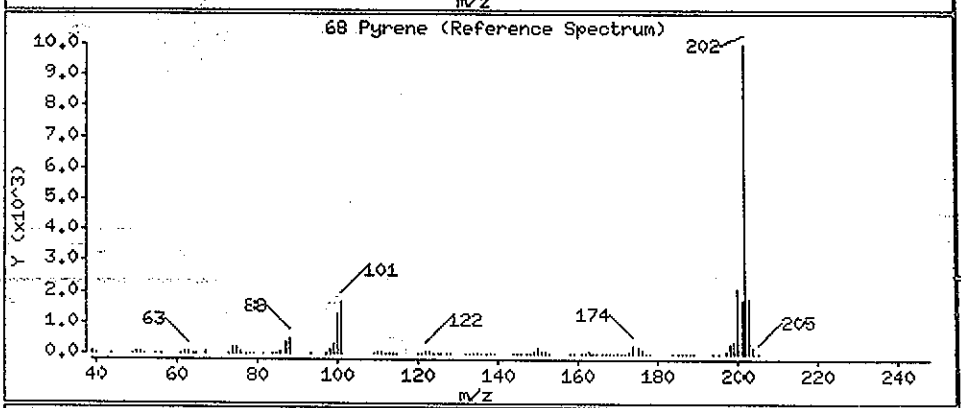
Concentration: 0.0827 ug/L

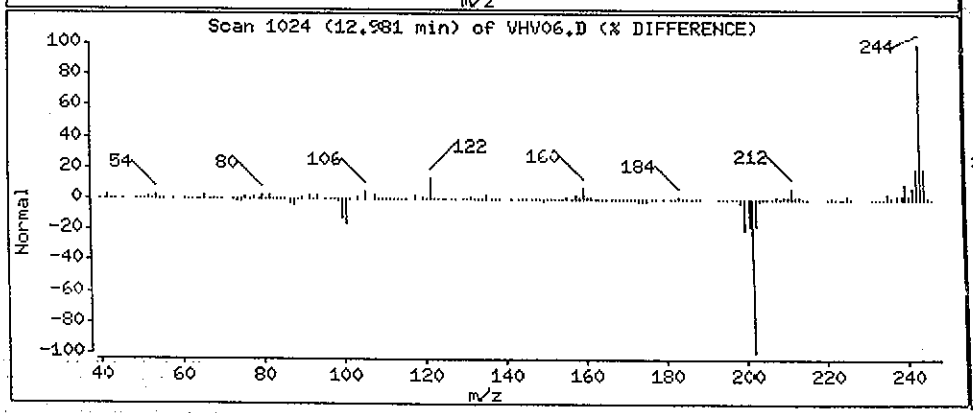


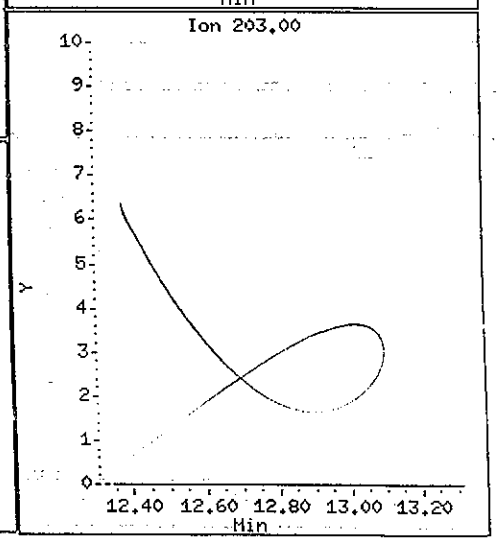












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

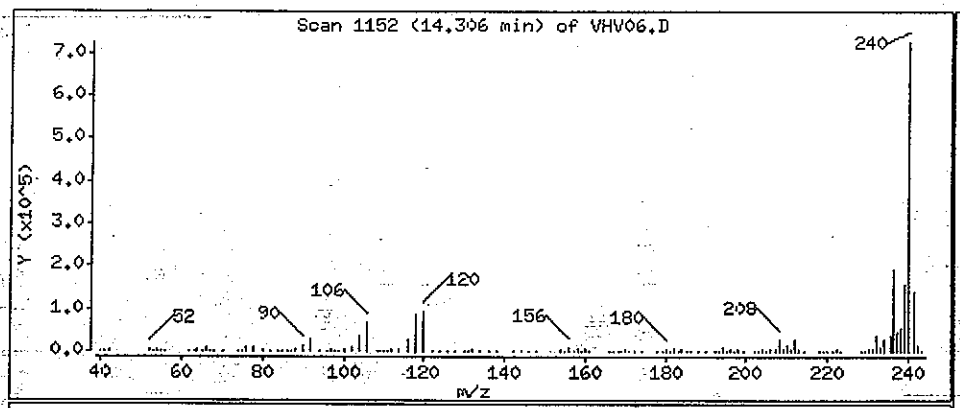
Operator: BVD

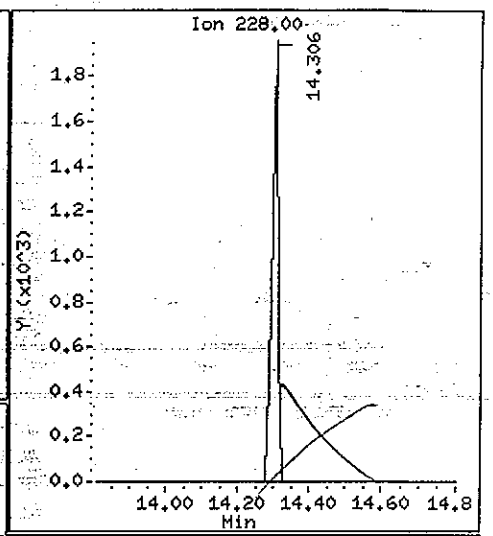
Column phase: Xti 5 x .5 u

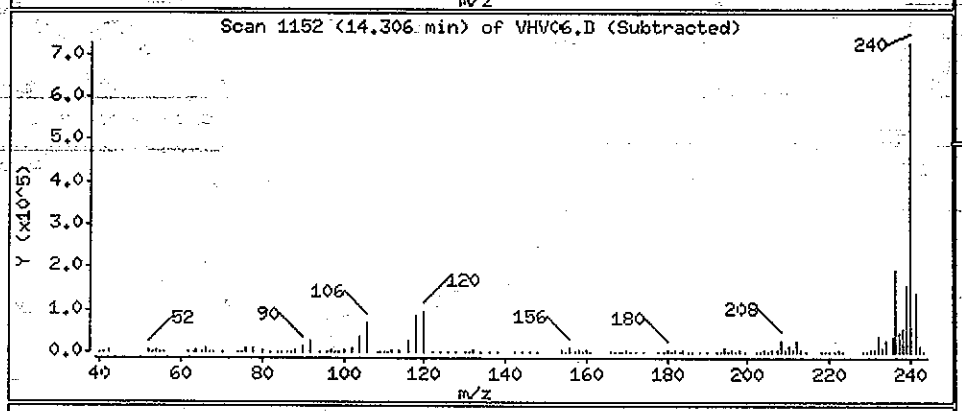
Column diameter: 0.25

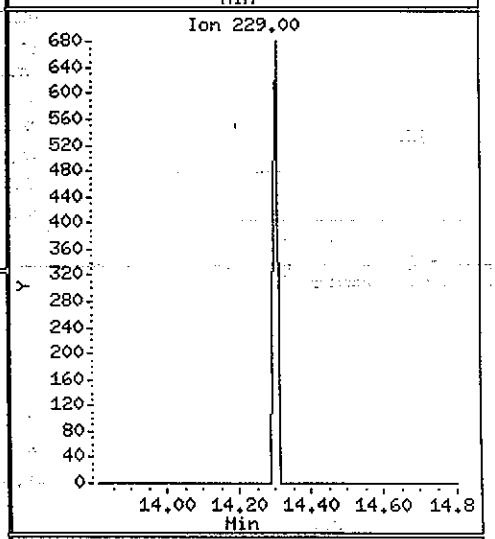
73 Benzo(a)anthracene

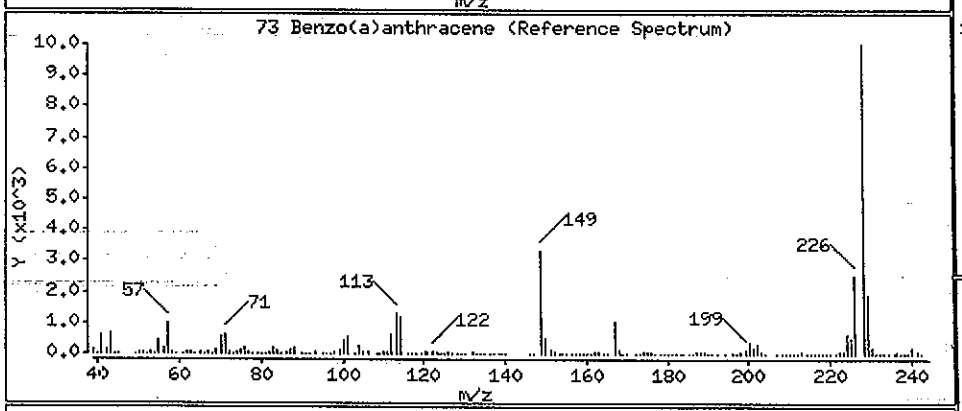
Concentration: 0.0835 ug/L

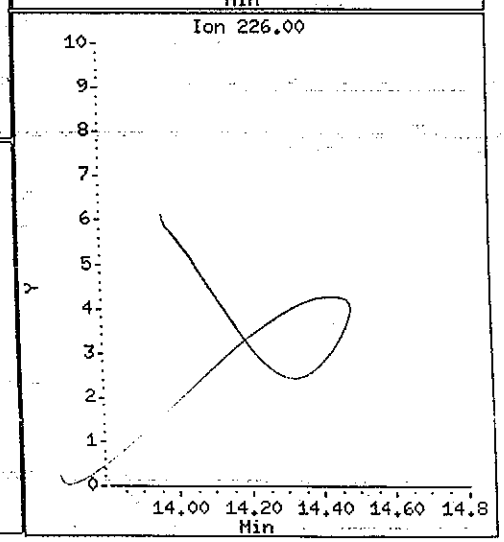


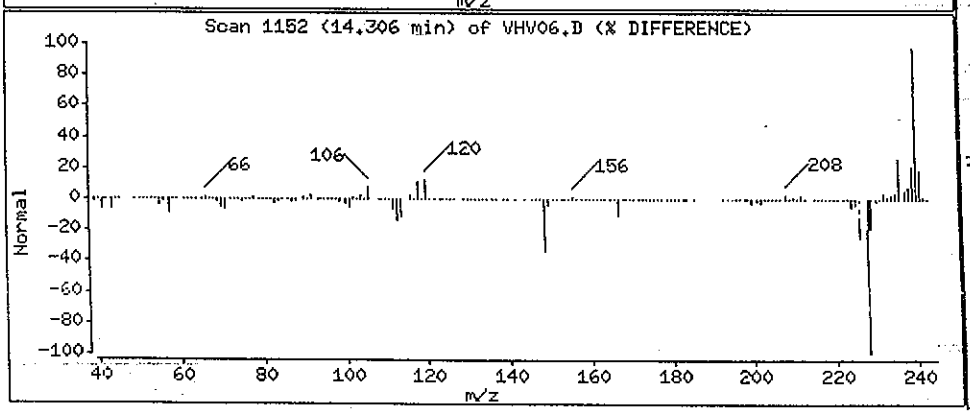












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

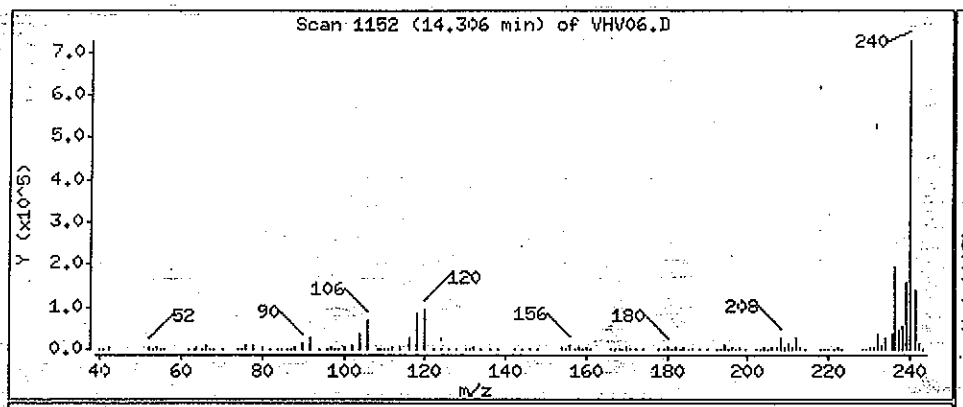
Operator: BVD

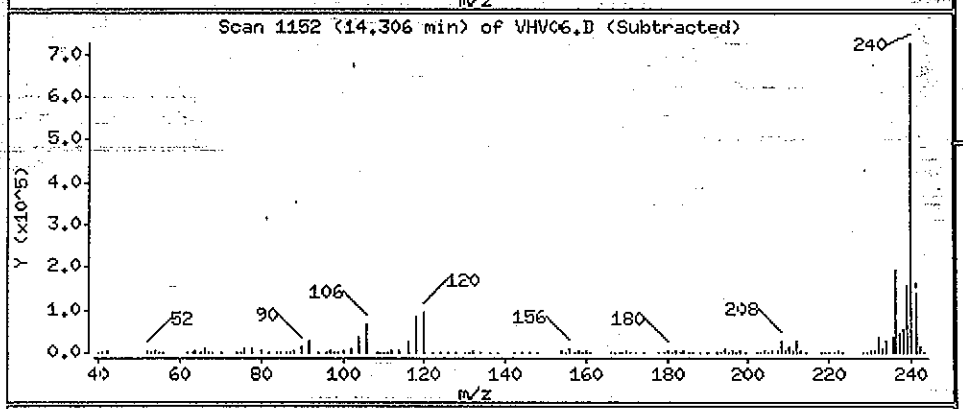
Column phase: Xti 5 x .5 u

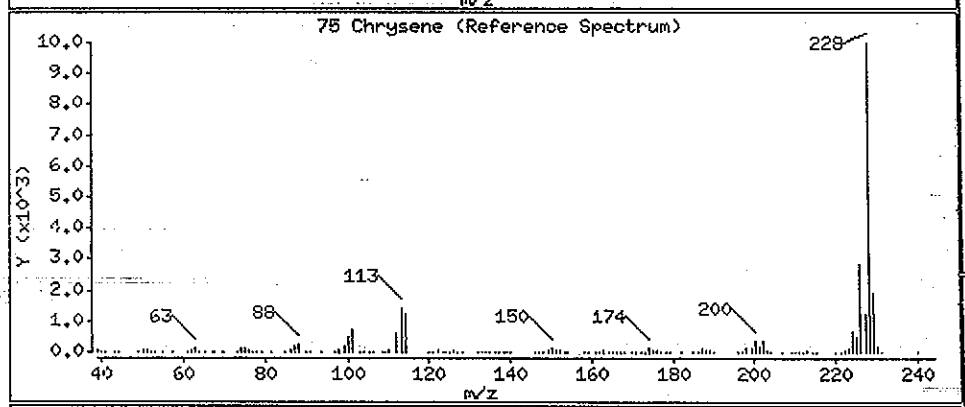
Column diameter: 0.25

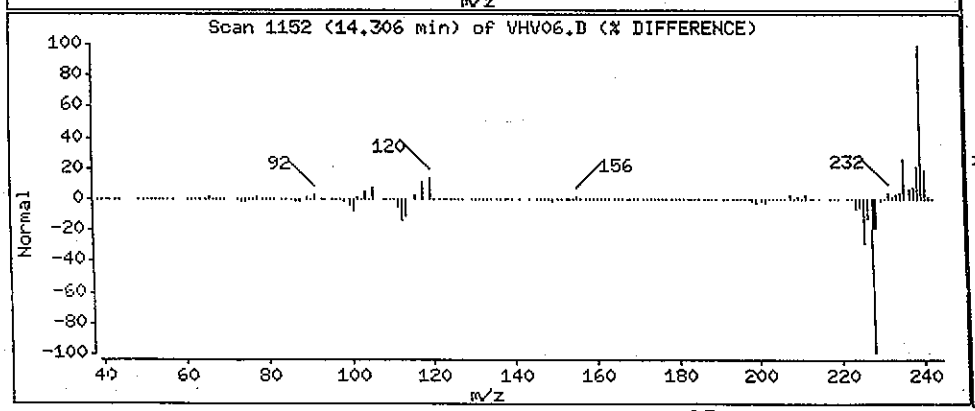
75 Chrysene

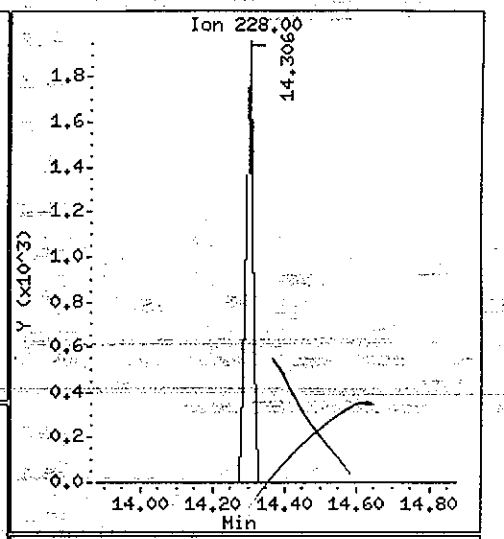
Concentration: 0.0829 ug/L

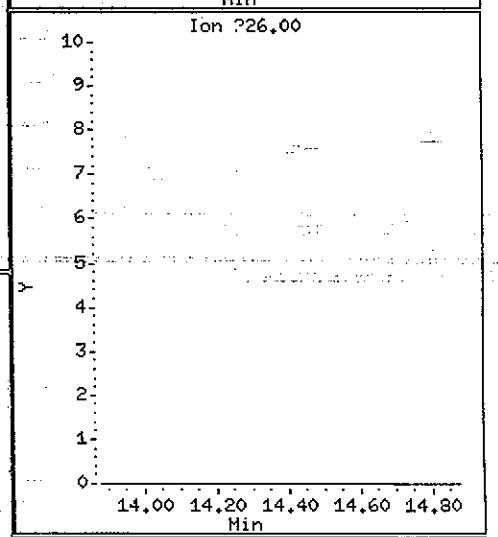


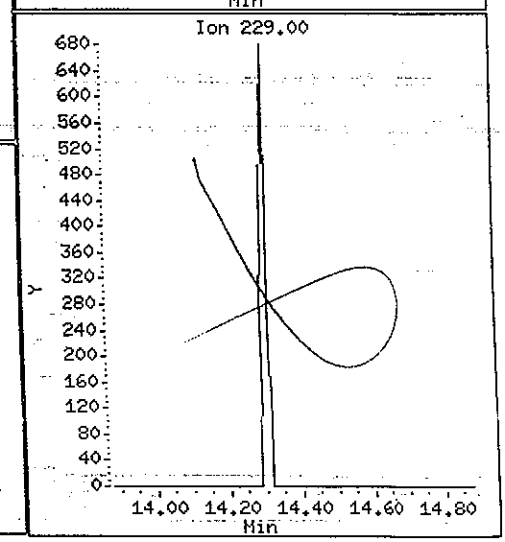












Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

Volume Injected (uL): 1.0

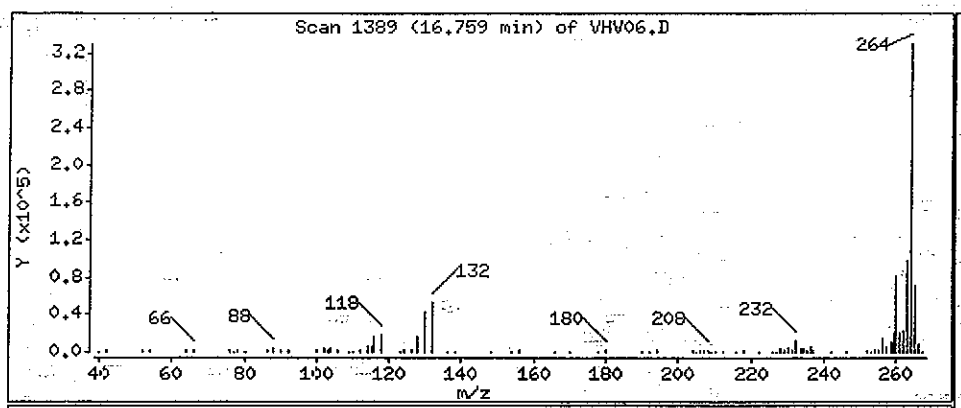
Operator: BVD

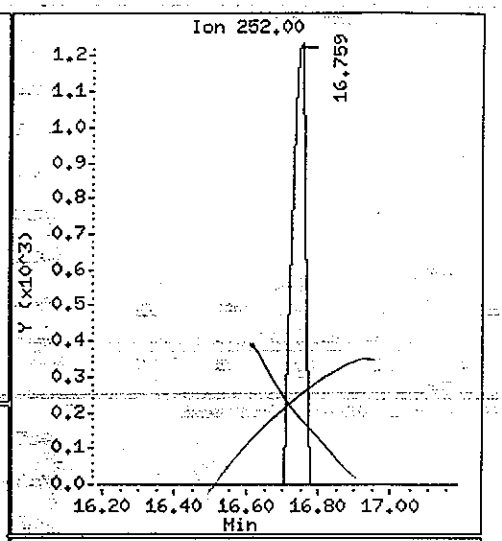
Column phase: Xti 5 x .5 u

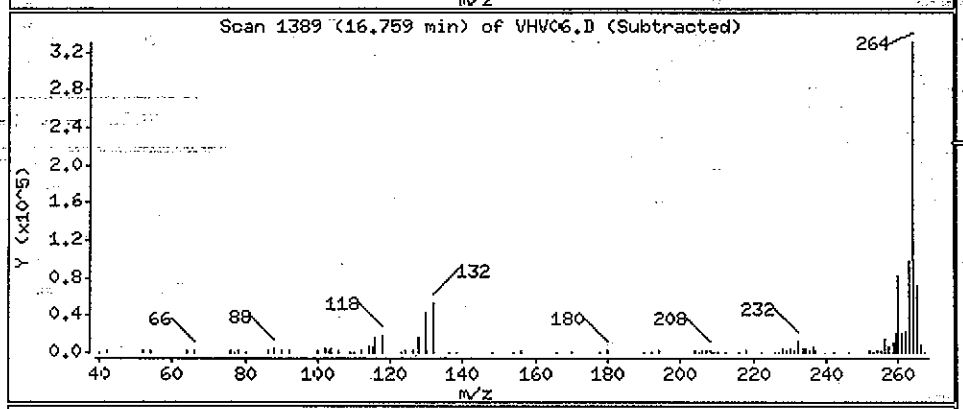
Column diameter: 0.25

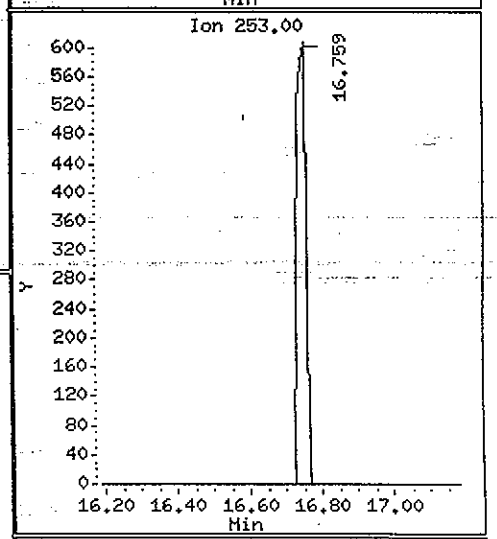
79 Benzo(a)pyrene

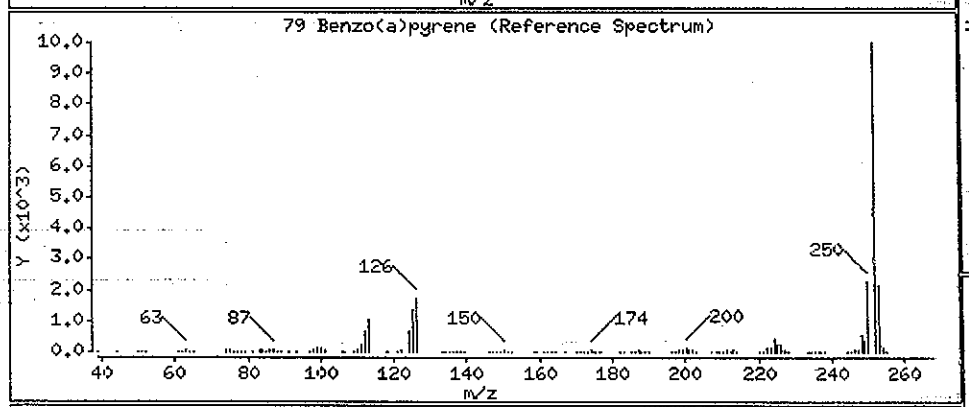
Concentration: 0.1064 ug/L

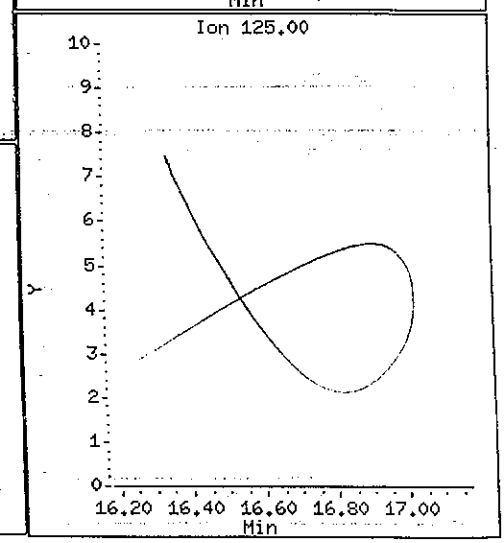


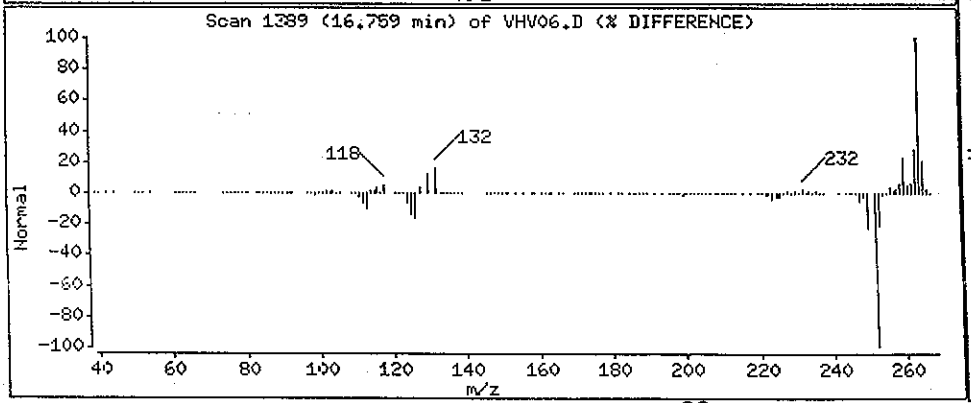












Data File: \\GCMSSERVER\DB\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA03.i

Sample Info: MB,QC263126

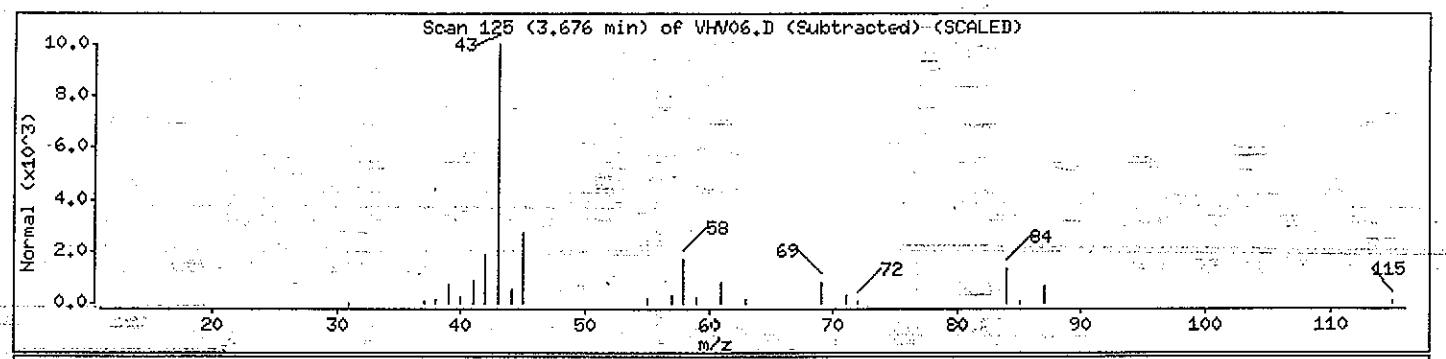
Volume Injected (uL): 1.0

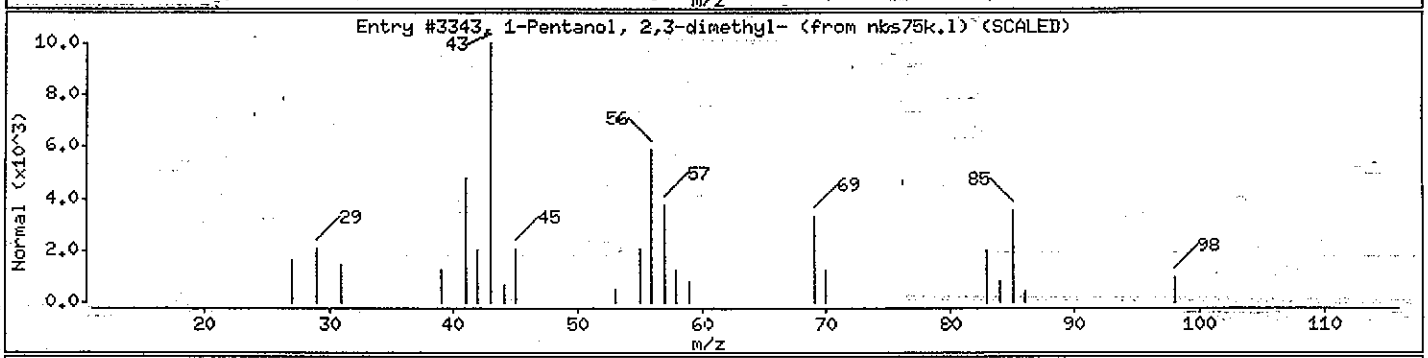
Operator: BVD

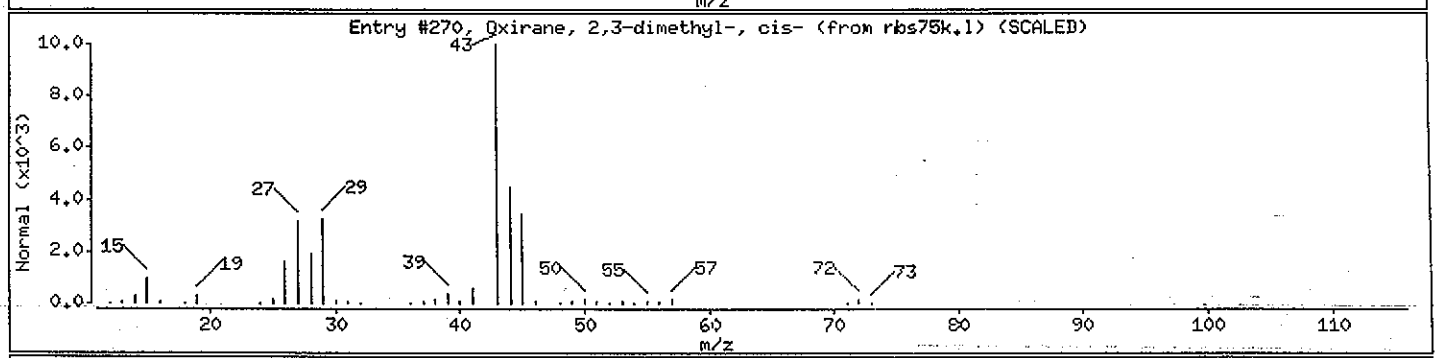
Column phase: Xti 5 x .5 u

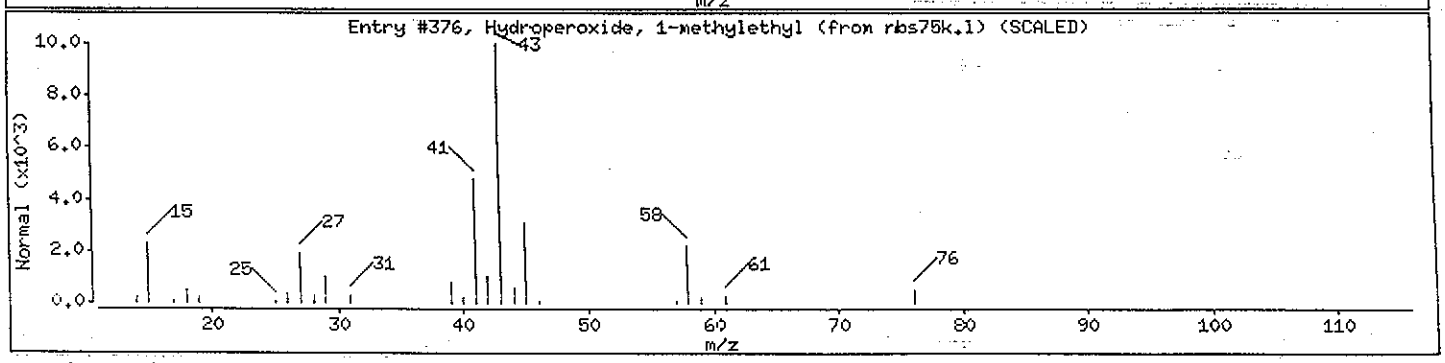
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Pentanol, 2,3-dimethyl-	10143-23-4	nbs75k.l	3343	38	C7H16O	116
Oxirane, 2,3-dimethyl-, cis-	1758-33-4	nbs75k.l	270	35	C4H8O	72
Hydroperoxide, 1-methylethyl	3031-75-2	nbs75k.l	376	33	C3H8O2	76









Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV06.D

Date : 31-AUG-2004 16:41

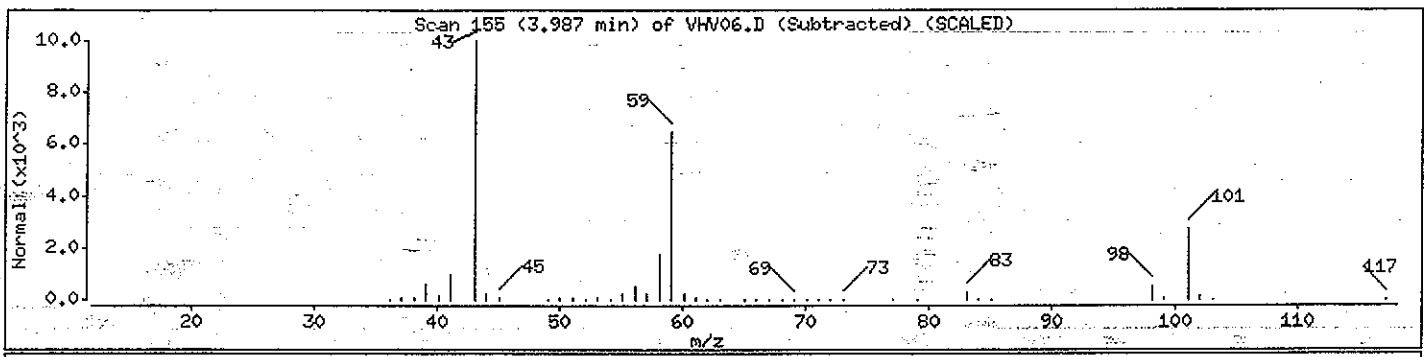
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA03.i

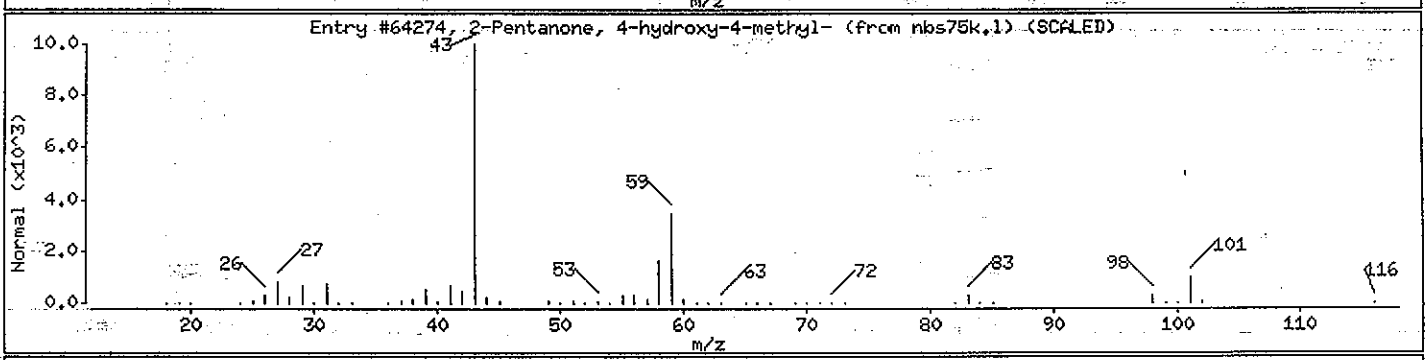
Sample Info: MB,QC263126

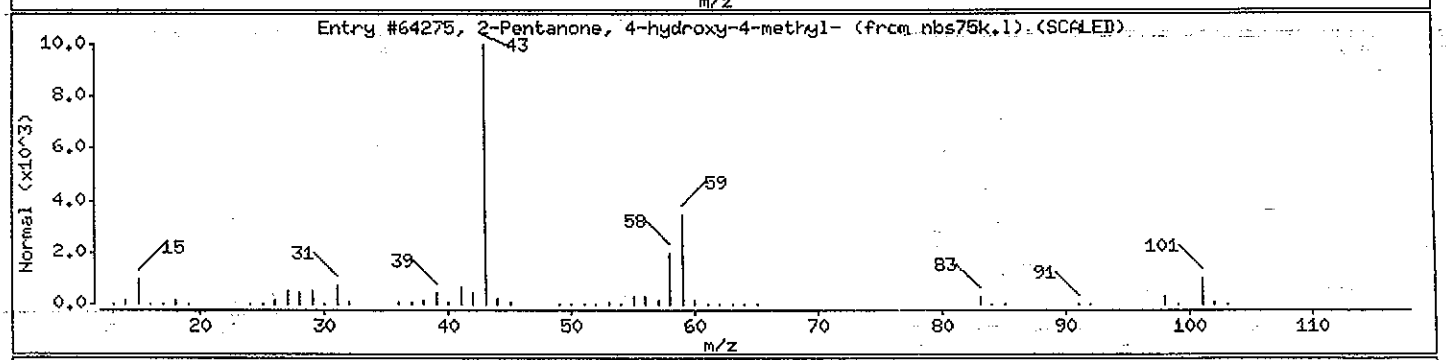
Volume Injected (uL): 1.0 | Operator: BVD

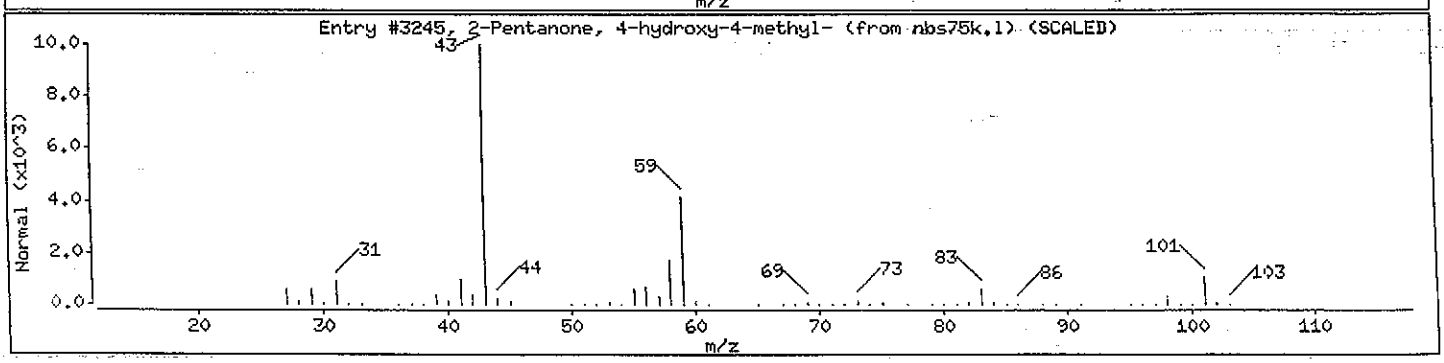
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	39	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	38	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	3245	28	C6H12O2	116









SPIKE USER REPORT FOR BATCH 94212
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524352153007
Filename : vhv07
IDF : 1.0
Run type : LCS
Samplenum: QC263127
Matrix : Soil
Batchnum : 94212
Inj : 31-AUG-2004 17:18

LCS: 29.82 g --> 1.0 ml = 0.03353 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3353	2277	68	40-119	ug/Kg	
2-Chlorophenol	3353	2448	73	43-119	ug/Kg	
1,4-Dichlorobenzene	1677	1120	67	47-111	ug/Kg	
N-Nitroso-di-n-propylamine	1677	1178	70	41-117	ug/Kg	m
1,2,4-Trichlorobenzene	1677	1098	65	45-107	ug/Kg	
4-Chloro-3-methylphenol	3353	2418	72	43-120	ug/Kg	
Acenaphthene	1677	1157	69	42-111	ug/Kg	
4-Nitrophenol	3353	2499	75	45-124	ug/Kg	
2,4-Dinitrotoluene	1677	1119	67	43-114	ug/Kg	
Pentachlorophenol	3353	2117	63	39-119	ug/Kg	
Pyrene	1677	1161	69	40-120	ug/Kg	
Naphthalene	1677	1172	70	45-120	ug/Kg	
Acenaphthylene	1677	1146	68	43-120	ug/Kg	
Fluorene	1677	1229	73	44-120	ug/Kg	
Phenanthrene	1677	1226	73	43-120	ug/Kg	
Anthracene	1677	1127	67	41-120	ug/Kg	
Fluoranthene	1677	1227	73	43-120	ug/Kg	
Benzo(a)anthracene	1677	1161	69	43-120	ug/Kg	
Chrysene	1677	1015	61	43-120	ug/Kg	
Benzo(b)fluoranthene	1677	1015	61	34-120	ug/Kg	
Benzo(k)fluoranthene	1677	1236	74	39-120	ug/Kg	
Benzo(a)pyrene	1677	1124	67	41-120	ug/Kg	
Indeno(1,2,3-cd)pyrene	1677	1079	64	27-125	ug/Kg	
Dibenz(a,h)anthracene	1677	1091	65	29-132	ug/Kg	
Benzo(g,h,i)perylene	1677	1084	65	20-134	ug/Kg	
2-Fluorophenol	3353	2440	73	33-120	ug/Kg	
Phenol-d5	3353	2272	68	31-113	ug/Kg	
2,4,6-Tribromophenol	3353	2203	66	32-120	ug/Kg	
Nitrobenzene-d5	1677	1117	67	43-120	ug/Kg	
2-Fluorobiphenyl	1677	1195	71	48-115	ug/Kg	
Terphenyl-d14	1677	1084	65	37-120	ug/Kg	

m=manual integration
Page 1 of 2

SPIKE USER REPORT FOR BATCH 94212
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524352153007
Filename : vhv07
IDF : 1.0
Run type : LCS
Samplenum: QC263127
Matrix : Soil
Batchnum : 94212
Inj : 31-AUG-2004 17:18

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	247832	-0.11	5.59	5.59	0.00
Naphthalene-d8	850720	873281	2.65	7.08	7.07	-0.01
Acenaphthene-d10	570359	565096	-0.92	9.22	9.22	0.00
Phenanthrene-d10	1014817	1010600	-0.42	11.04	11.03	-0.01
Chrysene-d12	978350	1042459	6.55	14.33	14.32	-0.01
Perylene-d12	826333	879317	6.41	16.78	16.77	-0.01

m=manual integration
Page 2 of 2

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524352153007
Filename : vhv07
IDF : 1.0
Run type : LCS
Samplenum: QC263127
Matrix : Soil
Batchnum : 94212
Inj : 31-AUG-2004 17:18

LCS: 29.82 g --> 1.0 ml = 0.03353 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3353	2277	68	37-120	ug/Kg	
2-Chlorophenol	3353	2448	73	43-120	ug/Kg	
1,4-Dichlorobenzene	1677	1120	67	47-120	ug/Kg	
N-Nitroso-di-n-propylamine	1677	1178	70	41-120	ug/Kg	m
1,2,4-Trichlorobenzene	1677	1098	65	45-120	ug/Kg	
4-Chloro-3-methylphenol	3353	2418	72	43-120	ug/Kg	
Acenaphthene	1677	1157	69	42-120	ug/Kg	
4-Nitrophenol	3353	2499	75	28-124	ug/Kg	
2,4-Dinitrotoluene	1677	1119	67	39-120	ug/Kg	
Pentachlorophenol	3353	2117	63	29-120	ug/Kg	
Pyrene	1677	1161	69	40-120	ug/Kg	
bis(2-Chloroethyl)ether	1677	1100	66	37-120	ug/Kg	
1,3-Dichlorobenzene	1677	1108	66	45-120	ug/Kg	
Benzyl alcohol	1677	1110	66	44-120	ug/Kg	
1,2-Dichlorobenzene	1677	1105	66	47-120	ug/Kg	
2-Methylphenol	3353	2579	77	45-122	ug/Kg	
bis(2-Chloroisopropyl) ether	1677	1131	67	29-128	ug/Kg	
4-Methylphenol	3353	2367	71	42-120	ug/Kg	
Hexachloroethane	1677	1151	69	45-120	ug/Kg	
Nitrobenzene	1677	1153	69	46-120	ug/Kg	
Isophorone	1677	1064	63	39-120	ug/Kg	
2-Nitrophenol	3353	2233	67	45-120	ug/Kg	
2,4-Dimethylphenol	3353	2693	80	42-126	ug/Kg	
Benzoic acid	5030	2324	46	2-120	ug/Kg	
bis(2-Chloroethoxy)methane	1677	1093	65	44-120	ug/Kg	
2,4-Dichlorophenol	3353	2285	68	41-120	ug/Kg	
Naphthalene	1677	1172	70	45-120	ug/Kg	
4-Chloroaniline	1677	727.9	43	16-120	ug/Kg	!v-
Hexachlorobutadiene	1677	1165	69	42-120	ug/Kg	
2-Methylnaphthalene	1677	1130	67	46-120	ug/Kg	
Hexachlorocyclopentadiene	3353	2158	64	22-121	ug/Kg	
2,4,6-Trichlorophenol	3353	2315	69	44-120	ug/Kg	
2,4,5-Trichlorophenol	3353	2533	76	45-120	ug/Kg	
2-Chloronaphthalene	1677	1197	71	46-120	ug/Kg	
2-Nitroaniline	1677	1162	69	41-120	ug/Kg	
Dimethylphthalate	1677	1127	67	46-120	ug/Kg	
Acenaphthylene	1677	1146	68	43-120	ug/Kg	
2,6-Dinitrotoluene	1677	1192	71	42-120	ug/Kg	
3-Nitroaniline	1677	535.4	32	16-120	ug/Kg	

!=warning -=low bias b=noncompliant m=manual integration v=ICV y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524352153007
Filename : vhv07
IDF : 1.0
Run type : LCS
Samplenum: QC263127
Matrix : Soil
Batchnum : 94212
Inj : 31-AUG-2004 17:18

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
2,4-Dinitrophenol	3353	1187	35	3-120	ug/Kg	
Dibenzofuran	1677	1208	72	45-120	ug/Kg	y
Diethylphthalate	1677	1169	70	44-120	ug/Kg	
Fluorene	1677	1229	73	44-120	ug/Kg	
4-Chlorophenyl-phenylether	1677	1264	75	44-120	ug/Kg	
4-Nitroaniline	1677	1089	65	37-120	ug/Kg	v- b*
4,6-Dinitro-2-methylphenol	3353	2178	65	19-120	ug/Kg	
N-Nitrosodiphenylamine	1677	1242	74	40-120	ug/Kg	
Azobenzene	1677	1140	68	42-120	ug/Kg	
4-Bromophenyl-phenylether	1677	1178	70	43-120	ug/Kg	
Hexachlorobenzene	1677	1150	69	39-120	ug/Kg	
Phenanthrene	1677	1226	73	43-120	ug/Kg	
Anthracene	1677	1127	67	41-120	ug/Kg	
Di-n-butylphthalate	1677	1181	70	43-121	ug/Kg	
Fluoranthene	1677	1227	73	43-120	ug/Kg	
Butylbenzylphthalate	1677	1091	65	40-120	ug/Kg	
3,3'-Dichlorobenzidine	1677	639.0	38	11-120	ug/Kg	
Benzo(a)anthracene	1677	1161	69	43-120	ug/Kg	
Chrysene	1677	1015	61	43-120	ug/Kg	
bis(2-Ethylhexyl)phthalate	1677	1168	70	36-137	ug/Kg	
Di-n-octylphthalate	1677	1077	64	34-122	ug/Kg	
Benzo(b)fluoranthene	1677	1015	61	34-120	ug/Kg	
Benzo(k)fluoranthene	1677	1236	74	39-120	ug/Kg	
Benzo(a)pyrene	1677	1124	67	41-120	ug/Kg	
Indeno(1,2,3-cd)pyrene	1677	1079	64	27-125	ug/Kg	
Dibenz(a,h)anthracene	1677	1091	65	29-132	ug/Kg	
Benzo(g,h,i)perylene	1677	1084	65	20-134	ug/Kg	
2-Fluorophenol	3353	2440	73	33-120	ug/Kg	
Phenol-d5	3353	2272	68	31-120	ug/Kg	
2,4,6-Tribromophenol	3353	2203	66	32-120	ug/Kg	
Nitrobenzene-d5	1677	1117	67	43-120	ug/Kg	
2-Fluorobiphenyl	1677	1195	71	48-120	ug/Kg	
Terphenyl-d14	1677	1084	65	37-120	ug/Kg	

Ratio

Calculation

!=warning -=low bias b=noncompliant m=manual integration v=ICV y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03
Seqnum : 524352153007
Filename : vhv07
IDF : 1.0
Run type : LCS
Samplenum: QC263127
Matrix : Soil
Batchnum : 94212
Inj : 31-AUG-2004 17:18

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	247832	-0.11	5.59	5.59	0.00
Naphthalene-d8	850720	873281	2.65	7.08	7.07	-0.01
Acenaphthene-d10	570359	565096	-0.92	9.22	9.22	0.00
Phenanthrene-d10	1014817	1010600	-0.42	11.04	11.03	-0.01
Chrysene-d12	978350	1042459	6.55	14.33	14.32	-0.01
Perylene-d12	826333	879317	6.41	16.78	16.77	-0.01

!=warning -=low bias b=noncompliant m=manual integration v=ICV y=RL raised

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV07.D
Report Date: 01-Sep-2004 10:40

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 17:18 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : LCS,QC263127
Misc Info : 94212,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	42	2.910	2.910	(0.521)	152295	31.5216	31.5216
	2 Pyridine	79	2.858	2.859	(0.511)	276029	30.2562	30.2561
$	3 2-Fluorophenol	112	4.297	4.256	(0.769)	564195	72.7628	72.7628
$	4 Phenol-d5	99	5.259	5.260	(0.941)	733655	67.7383	67.7382
	5 Phenol	94	5.280	5.270	(0.944)	828659	67.8936	67.8935
	6 Aniline	66	5.280	5.291	(0.944)	363387	85.4168	85.4168
	7 bis(2-Chloroethyl)ether	63	5.342	5.353	(0.956)	221790	32.8062	32.8062
	8 2-Chlorophenol	128	5.404	5.405	(0.967)	595702	72.9982	72.9981
	9 1,3-Dichlorobenzene	146	5.549	5.550	(0.993)	318672	33.0381	33.0381
*	10 1,4-Dichlorobenzene-d4	152	5.590	5.591	(1.000)	247832	40.0000	
	11 1,4-Dichlorobenzene	146	5.611	5.612	(1.004)	336003	33.3942	33.3941
	12 Benzyl alcohol	108	5.777	5.788	(1.033)	198683	33.1073	33.1072
	13 2-Methylphenol	107	5.922	5.922	(1.059)	527960	76.9122	76.9121
	14 1,2-Dichlorobenzene	146	5.818	5.819	(1.041)	303516	32.9439	32.9439
	15 bis(2-Chloroisopropyl) ether	45	5.932	5.943	(1.061)	406887	33.7277	33.7276
	16 4-Methylphenol	107	6.087	6.098	(1.089)	739826	70.5741	70.5740
	17 N-Nitroso-di-n-propylamine	70	6.129	6.140	(1.096)	198701	35.1352	35.1352(M)
	18 Hexachloroethane	117	6.160	6.160	(1.102)	124364	34.3138	34.3137
$	19 Nitrobenzene-d5	82	6.263	6.274	(0.886)	358075	33.3029	33.3028
	20 Nitrobenzene	77	6.284	6.295	(0.889)	365720	34.3858	34.3857

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV07.D
Report Date: 01-Sep-2004 10:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	6.563	6.564	(0.928)	588824	31.7390	31.7389
	22 2,4-Dimethylphenol	122	6.698	6.709	(0.947)	492663	80.3184	80.3183
	23 2-Nitrophenol	139	6.656	6.657	(0.941)	331871	66.5976	66.5975
	24 bis(2-Chloroethoxy)methane	93	6.801	6.812	(0.962)	362621	32.5849	32.5849
	25 Benzoic acid	122	6.926	6.937	(0.980)	291671	69.3128	69.3127
	26 2,4-Dichlorophenol	162	6.926	6.937	(0.980)	527804	68.1381	68.1381
	27 1,2,4-Trichlorobenzene	180	7.019	7.030	(0.993)	293407	32.7338	32.7337
*	28 Naphthalene-d8	136	7.070	7.081	(1.000)	873281	40.0000	
	29 Naphthalene	128	7.101	7.112	(1.004)	865315	34.9607	34.9606
	30 4-Chloroaniline	127	7.195	7.195	(1.018)	210616	21.7058	21.7058
	31 Hexachlorobutadiene	225	7.298	7.309	(1.032)	185855	34.7394	34.7394
	32 4-Chloro-3-methylphenol	107	7.764	7.775	(1.098)	585729	72.0921	72.0921
	33 2-Methylnaphthalene	142	7.919	7.930	(1.120)	578975	33.6886	33.6885
	34 Hexachlorocyclopentadiene	237	8.188	8.189	(0.888)	300890	64.3551	64.3550
	35 2,4,6-Trichlorophenol	196	8.302	8.313	(0.900)	421314	69.0210	69.0209
	36 2,4,5-Trichlorophenol	196	8.354	8.354	(0.906)	470637	75.5319	75.5319
$	37 2-Fluorobiphenyl	172	8.385	8.396	(0.909)	684786	35.6458	35.6458
	38 2-Chloronaphthalene	162	8.519	8.530	(0.924)	574477	35.6991	35.6991
	39 2-Nitroaniline	65	8.695	8.706	(0.943)	202952	34.6497	34.6497
	40 Dimethylphthalate	163	8.933	8.955	(0.969)	648537	33.6163	33.6162
	41 2,6-Dinitrotoluene	165	9.037	9.058	(0.980)	172792	35.5524	35.5523
	42 Acenaphthylene	152	9.027	9.038	(0.979)	880998	34.1691	34.1691
	43 3-Nitroaniline	138	9.203	9.234	(0.998)	73202	15.9658	15.9658(H)
*	44 Acenaphthene-d10	164	9.223	9.224	(1.000)	565096	40.0000	
	45 Acenaphthene	154	9.265	9.276	(1.004)	560743	34.5164	34.5164
	46 2,4-Dinitrophenol	184	9.337	9.348	(1.012)	88833	35.4039	35.4039
	47 4-Nitrophenol	109	9.420	9.441	(1.021)	174141	74.5171	74.5171
	48 Dibenzofuran	168	9.451	9.462	(1.025)	851350	36.0192	36.0191
	49 Diethylphthalate	149	9.803	9.814	(1.063)	627287	34.8675	34.8674
	50 4-Chlorophenyl-phenylether	204	9.865	9.876	(1.070)	376625	37.6924	37.6923
	51 Fluorene	166	9.875	9.886	(1.071)	686971	36.6396	36.6396
	52 2,4-Dinitrotoluene	165	9.513	9.534	(1.031)	200557	33.3606	33.3606
	53 4-Nitroaniline	138	9.979	10.021	(1.082)	118980	32.4728	32.4727
	54 4,6-Dinitro-2-methylphenol	198	10.031	10.052	(0.910)	246841	64.9384	64.9383
	55 N-Nitrosodiphenylamine	169	10.041	10.062	(0.911)	490056	37.0417	37.0416
	56 Azobenzene	77	10.062	10.073	(0.913)	729221	33.9979	33.9978
$	57 2,4,6-Tribromophenol	330	10.207	10.218	(1.107)	252850	65.7069	65.7069
	58 4-Bromophenyl-phenylether	248	10.465	10.476	(0.949)	229587	35.1164	35.1163
	59 Hexachlorobenzene	284	10.652	10.663	(0.966)	243486	34.3030	34.3030
	60 Pentachlorophenol	266	10.879	10.890	(0.987)	263253	63.1170	63.1170
*	61 Phenanthrene-d10	188	11.024	11.035	(1.000)	1010600	40.0000	
	62 Phenanthrene	178	11.055	11.066	(1.003)	1021233	36.5609	36.5608
	63 Anthracene	178	11.107	11.128	(1.008)	960368	33.6122	33.6121
	64 Carbazole	167	11.304	11.325	(1.025)	4219	0.21019	0.2101
	65 Di-n-butylphthalate	149	11.769	11.780	(1.068)	1104105	35.2027	35.2027
	66 Fluoranthene	202	12.525	12.536	(1.136)	1176491	36.5939	36.5938
	67 Benzidine	184	12.680	12.691	(0.886)	87690	84.0120	84.0119
	68 Pyrene	202	12.804	12.815	(0.894)	1239963	34.6338	34.6337
$	69 Terphenyl-d14	244	12.991	13.002	(0.907)	899299	32.3172	32.3171
	70 Butylbenzylphthalate	149	13.612	13.623	(0.951)	497788	32.5276	32.5275
	71 bis(2-Ethylhexyl)phthalate	149	14.326	14.337	(1.001)	733887	34.8226	34.8226
	72 3,3'-Dichlorobenzidine	252	14.264	14.295	(0.996)	200470	19.0552	19.0552
	73 Benzo(a)anthracene	228	14.284	14.306	(0.998)	1184835	34.6269	34.6268
*	74 Chrysene-d12	240	14.316	14.327	(1.000)	1042459	40.0000	

9/1/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV07.D
Report Date: 01-Sep-2004 10:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	14.347	14.378	(1.002)	1042246	30.2595	30.2594
76 Di-n-octylphthalate	149	15.226	15.248	(0.908)	1181659	32.1071	32.1070
77 Benzo(b)fluoranthene	252	16.003	16.055	(0.954)	1253648	30.2708	30.2708 (AH)
78 Benzo(k)fluoranthene	252	16.044	16.096	(0.957)	1143797	36.8543	36.8543 (A)
79 Benzo(a)pyrene	252	16.634	16.686	(0.992)	1001061	33.5046	33.5045
* 80 Perylene-d12	264	16.769	16.780	(1.000)	879317	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.346	19.460	(1.154)	1158428	32.1764	32.1763
82 Dibenz(a,h)anthracene	278	19.397	19.481	(1.157)	1013127	32.5485	32.5484
83 Benzo(g,h,i)perylene	276	20.081	20.164	(1.198)	900781	32.3359	32.3359

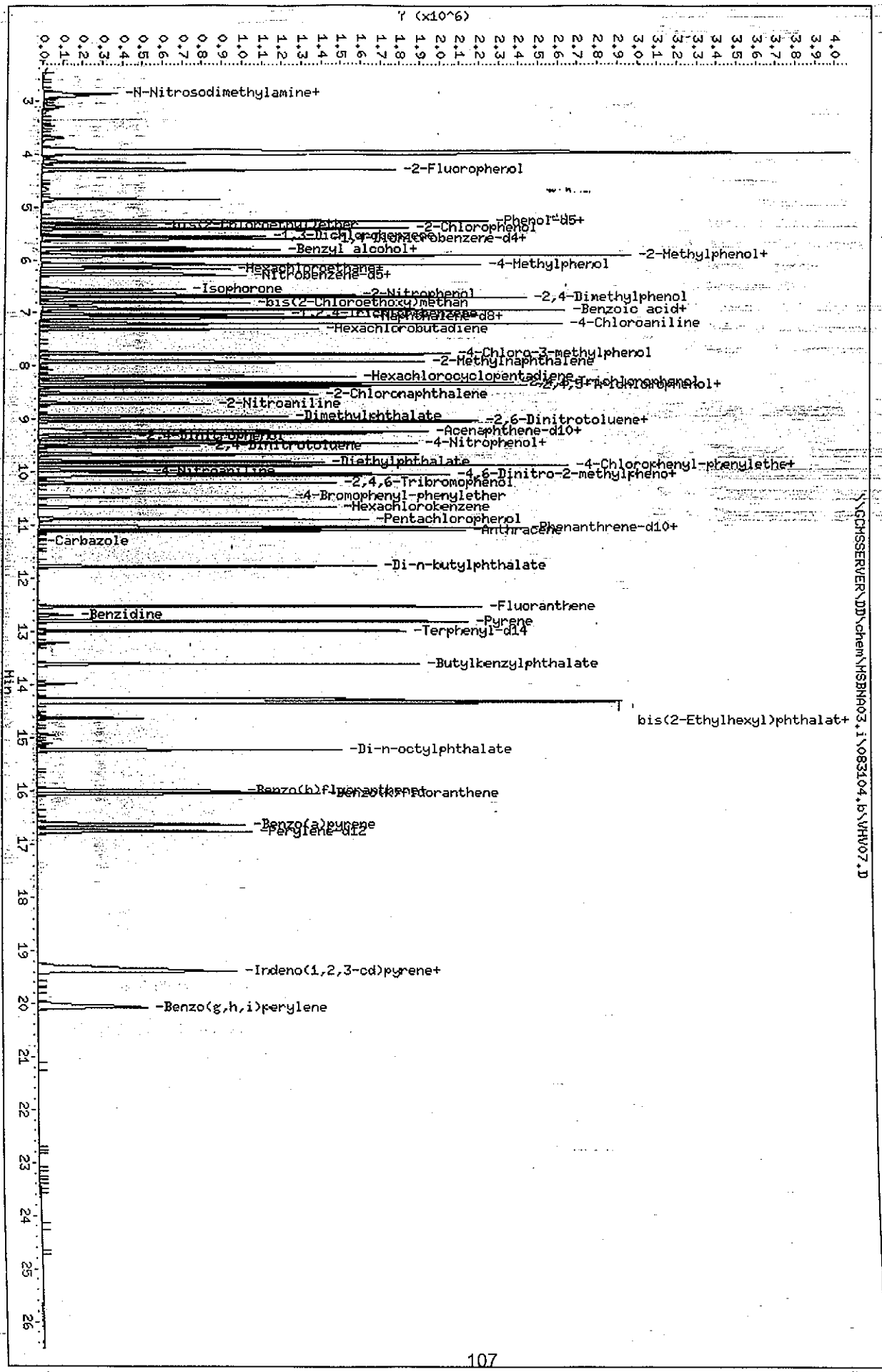
9/1/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV07.D
Date : 31-AUG-2004 17:18
Client ID: CURTIS&TOMPKINS
Sample Info: LCS,QC263127
Volume Injected (uL): 1.0
Column phase: Hti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



\\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV07.D

SPIKE USER REPORT FOR BATCH 94212
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03	Instid : MSBNA03	Instid : MSBNA03
Seqnum : 524352153008	Seqnum : 524352153009	Seqnum : 524352153010
Filename : vhv08	Filename : vhv09	Filename : vhv10
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-003	Samplenum: QC263128	Samplenum: QC263129
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94212	Batchnum : 94212	Batchnum : 94212
Inj : 31-AUG-2004 17:54	Inj : 31-AUG-2004 18:32	Inj : 31-AUG-2004 19:10

MSS: 30.03 g --> 1.0 ml = 0.0333 ml/g PDF
MS: 29.75 g --> 1.0 ml = 0.03361 ml/g PDF
MSD: 30.41 g --> 1.0 ml = 0.03288 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Phenol	ND	3288	2563	76	2267	69	37-100	ug/Kg	10	34	
2-Chlorophenol	ND	3288	2904	86	2530	77	41-102	ug/Kg	12	34	
1,4-Dichlorobenzene	ND	1644	1239	74	1125	68	49-104	ug/Kg	7	27	
N-Nitroso-di-n-propylamine	ND	1644	963.9	57	805.4	49	45-120	ug/Kg	16	33	
1,2,4-Trichlorobenzene	ND	1644	1272	76	1114	68	46-107	ug/Kg	11	23	
4-Chloro-3-methylphenol	ND	3288	2852	85	2463	75	39-103	ug/Kg	12	32	
Acenaphthene	ND	1644	1338	80	1168	71	45-120	ug/Kg	11	19	
4-Nitrophenol	ND	3288	2777	83	2493	76	28-114	ug/Kg	9	37	
2,4-Dinitrotoluene	ND	1644	1297	77	1109	67	41-100	ug/Kg	13	35	
Pentachlorophenol	ND	3288	2387	71	1824	55	17-109	ug/Kg	25	48	
Pyrene	ND	1644	1273	76	1126	68	35-132	ug/Kg	10	36	
Naphthalene	ND	1644	1358	81	1176	72	45-120	ug/Kg	12	31	
Acenaphthylene	ND	1644	1338	80	1134	69	44-120	ug/Kg	14	32	
Fluorene	ND	1644	1422	85	1213	74	41-120	ug/Kg	14	32	
Phenanthrene	ND	1644	1407	84	1206	73	44-120	ug/Kg	13	34	
Anthracene	ND	1644	1343	80	1157	70	41-120	ug/Kg	13	34	
Fluoranthene	ND	1644	1328	79	1172	71	35-120	ug/Kg	10	33	
Benzo(a)anthracene	ND	1644	1358	81	1158	70	45-120	ug/Kg	14	33	
Chrysene	ND	1644	1205	72	1033	63	43-120	ug/Kg	13	34	
Benzo(b)fluoranthene	ND	1644	1102	66	972.2	59	33-120	ug/Kg	10	35	
Benzo(k)fluoranthene	ND	1644	1598	95	1339	81	33-122	ug/Kg	15	37	
Benzo(a)pyrene	ND	1644	1330	79	1147	70	41-120	ug/Kg	13	36	
Indeno(1,2,3-cd)pyrene	ND	1644	1257	75	1092	66	13-120	ug/Kg	12	40	
Dibenz(a,h)anthracene	ND	1644	1264	75	1101	67	19-120	ug/Kg	12	37	
Benzo(g,h,i)perylene	ND	1644	1245	74	1072	65	6-120	ug/Kg	13	41	
2-Fluorophenol		3288	2716	81	2378	72	33-120	ug/Kg	--		
Phenol-d5		3288	2633	78	2285	69	31-113	ug/Kg	--		
2,4,6-Tribromophenol		3288	2451	73	2066	63	32-120	ug/Kg	--		
Nitrobenzene-d5		1644	1252	74	1122	68	43-120	ug/Kg	--		
2-Fluorobiphenyl		1644	1376	82	1173	71	48-115	ug/Kg	--		
Terphenyl-d14		1644	1232	73	1036	63	37-120	ug/Kg	--		

SPIKE USER REPORT FOR BATCH 94212
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03	Instid : MSBNA03	Instid : MSBNA03
Seqnum : 524352153008	Seqnum : 524352153009	Seqnum : 524352153010
Filename : vhv08	Filename : vhv09	Filename : vhv10
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-003	Samplenum: QC263128	Samplenum: QC263129
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94212	Batchnum : 94212	Batchnum : 94212
Inj : 31-AUG-2004 17:54	Inj : 31-AUG-2004 18:32	Inj : 31-AUG-2004 19:10

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	243558	-1.83	5.59	5.59	0.00
Naphthalene-d8	850720	867108	1.93	7.08	7.07	-0.01
Acenaphthene-d10	570359	559746	-1.86	9.22	9.23	0.01
Phenanthrene-d10	1014817	1017129	0.23	11.04	11.03	-0.01
Chrysene-d12	978350	1033863	5.67	14.33	14.32	-0.01
Perylene-d12	826333	845338	2.30	16.78	16.77	-0.01

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	257221	3.67	5.59	5.59	0.00
Naphthalene-d8	850720	902488	6.09	7.08	7.07	-0.01
Acenaphthene-d10	570359	587843	3.07	9.22	9.22	0.00
Phenanthrene-d10	1014817	1041715	2.65	11.04	11.03	-0.01
Chrysene-d12	978350	1072097	9.58	14.33	14.32	-0.01
Perylene-d12	826333	873147	5.67	16.78	16.77	-0.01

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA03	Instid : MSBNA03	Instid : MSBNA03
Seqnum : 524352153008	Seqnum : 524352153009	Seqnum : 524352153010
Filename : vhv08	Filename : vhv09	Filename : vhv10
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174320-003	Samplenum: QC263128	Samplenum: QC263129
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 94212	Batchnum : 94212	Batchnum : 94212
Inj : 31-AUG-2004 17:54	Inj : 31-AUG-2004 18:32	Inj : 31-AUG-2004 19:10

MSS: 30.03 g --> 1.0 ml = 0.0333 ml/g PDF
MS: 29.75 g --> 1.0 ml = 0.03361 ml/g PDF
MSD: 30.41 g --> 1.0 ml = 0.03288 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Phenol	ND	3288	2563	76	2267	69	37-120	ug/Kg	10	34	
2-Chlorophenol	ND	3288	2904	86	2530	77	41-120	ug/Kg	12	34	
1,4-Dichlorobenzene	ND	1644	1239	74	1125	68	49-120	ug/Kg	7	32	
N-Nitroso-di-n-propylamine	ND	1644	963.9	57	805.4	49	45-120	ug/Kg	16	33	
1,2,4-Trichlorobenzene	ND	1644	1272	76	1114	68	46-120	ug/Kg	11	33	
4-Chloro-3-methylphenol	ND	3288	2852	85	2463	75	39-120	ug/Kg	12	32	
Acenaphthene	ND	1644	1338	80	1168	71	45-120	ug/Kg	11	32	
4-Nitrophenol	ND	3288	2777	83	2493	76	28-122	ug/Kg	9	37	
2,4-Dinitrotoluene	ND	1644	1297	77	1109	67	41-120	ug/Kg	13	35	
Pentachlorophenol	ND	3288	2387	71	1824	55	15-120	ug/Kg	25	48	
Pyrene	ND	1644	1273	76	1126	68	34-132	ug/Kg	10	36	
2-Fluorophenol		3288	2716	81	2378	72	33-120	ug/Kg	--		
Phenol-d5		3288	2633	78	2285	69	31-120	ug/Kg	--		
2,4,6-Tribromophenol		3288	2451	73	2066	63	32-120	ug/Kg	--		
Nitrobenzene-d5		1644	1252	74	1122	68	43-120	ug/Kg	--		
2-Fluorobiphenyl		1644	1376	82	1173	71	48-120	ug/Kg	--		
Terphenyl-d14		1644	1232	73	1036	63	37-120	ug/Kg	--		

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	243558	-1.83	5.59	5.59	0.00
Naphthalene-d8	850720	867108	1.93	7.08	7.07	-0.01
Acenaphthene-d10	570359	559746	-1.86	9.22	9.23	0.01
Phenanthrene-d10	1014817	1017129	0.23	11.04	11.03	-0.01
Chrysene-d12	978350	1033863	5.67	14.33	14.32	-0.01
Perylene-d12	826333	845338	2.30	16.78	16.77	-0.01

ISTD (CCV=vhv02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	248109	257221	3.67	5.59	5.59	0.00
Naphthalene-d8	850720	902488	6.09	7.08	7.07	-0.01
Acenaphthene-d10	570359	587843	3.07	9.22	9.22	0.00
Phenanthrene-d10	1014817	1041715	2.65	11.04	11.03	-0.01
Chrysene-d12	978350	1072097	9.58	14.33	14.32	-0.01
Perylene-d12	826333	873147	5.67	16.78	16.77	-0.01

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV09.D
Report Date: 31-Aug-2004 23:15

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 18:32 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MS,QC263128
Misc Info : 94212,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	42	2.900	2.910	(0.519)	163467	34.4277	34.4276
	2 Pyridine	79	2.859	2.859	(0.511)	286767	31.9848	31.9847
$	3 2-Fluorophenol	112	4.298	4.256	(0.769)	615785	80.8099	80.8098
$	4 Phenol-d5	99	5.271	5.260	(0.943)	833732	78.3292	78.3292
	5 Phenol	94	5.281	5.270	(0.944)	914584	76.2485	76.2485
	6 Aniline	66	5.281	5.291	(0.944)	407900	97.5625	97.5624
	7 bis(2-Chloroethyl)ether	63	5.343	5.353	(0.956)	252439	37.9950	37.9949
	8 2-Chlorophenol	128	5.415	5.405	(0.969)	592795	86.3858	86.3858
	9 1,3-Dichlorobenzene	146	5.550	5.550	(0.993)	363558	38.3531	38.3530
*	10 1,4-Dichlorobenzene-d4	152	5.591	5.591	(1.000)	243558	40.0000	
	11 1,4-Dichlorobenzene	146	5.612	5.612	(1.004)	364468	36.8589	36.8588
	12 Benzyl alcohol	108	5.788	5.788	(1.035)	237095	40.2013	40.2013
	13 2-Methylphenol	107	5.923	5.922	(1.059)	591693	87.7093	87.7092
	14 1,2-Dichlorobenzene	146	5.819	5.819	(1.041)	348283	38.4663	38.4663
	15 bis(2-Chloroisopropyl) ether	45	5.933	5.943	(1.061)	448448	37.8251	37.8250
	16 4-Methylphenol	107	6.088	6.098	(1.089)	873130	84.7519	84.7519
	17 N-Nitroso-di-n-propylamine	70	6.130	6.140	(1.096)	159378	28.6765	28.6765
	18 Hexachloroethane	117	6.161	6.160	(1.102)	137024	38.4703	38.4702
$	19 Nitrobenzene-d5	82	6.264	6.274	(0.886)	397634	37.2453	37.2453
	20 Nitrobenzene	77	6.285	6.295	(0.889)	415370	39.3320	39.3320

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV09.D
Report Date: 31-Aug-2004 23:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	6.564	6.564	(0.928)	678153	36.8142	36.8142
	22 2,4-Dimethylphenol	122	6.699	6.709	(0.947)	601271	98.7225	98.7224
	23 2-Nitrophenol	139	6.657	6.657	(0.941)	387200	78.2538	78.2537
	24 bis(2-Chloroethoxy)methane	93	6.802	6.812	(0.962)	420678	38.0710	38.0709
	25 Benzoic acid	122	6.989	6.937	(0.988)	507023	111.670	111.6695(M)
	26 2,4-Dichlorophenol	162	6.927	6.937	(0.980)	626055	81.3975	81.3974
	27 1,2,4-Trichlorobenzene	180	7.020	7.030	(0.993)	336814	37.8439	37.8439
*	28 Naphthalene-d8	136	7.071	7.081	(1.000)	867108	40.0000	
	29 Naphthalene	128	7.103	7.112	(1.004)	992795	40.3967	40.3967
	30 4-Chloroaniline	127	7.196	7.195	(1.018)	233748	24.2613	24.2613
	31 Hexachlorobutadiene	225	7.299	7.309	(1.032)	212926	40.0828	40.0827
	32 4-Chloro-3-methylphenol	107	7.775	7.775	(1.100)	684441	84.8414	84.8413
	33 2-Methylnaphthalene	142	7.920	7.930	(1.120)	666149	39.0369	39.0368
	34 Hexachlorocyclopentadiene	237	8.189	8.189	(0.888)	249430	54.2047	54.2046
	35 2,4,6-Trichlorophenol	196	8.303	8.313	(0.900)	501836	82.9981	82.9981
	36 2,4,5-Trichlorophenol	196	8.355	8.354	(0.906)	517922	83.9151	83.9150
$	37 2-Fluorobiphenyl	172	8.396	8.396	(0.910)	779120	40.9439	40.9439
	38 2-Chloronaphthalene	162	8.521	8.530	(0.924)	656990	41.2168	41.2168
	39 2-Nitroaniline	65	8.696	8.706	(0.943)	224754	38.7387	38.7386
	40 Dimethylphthalate	163	8.945	8.955	(0.970)	736938	38.5636	38.5635
	41 2,6-Dinitrotoluene	165	9.038	9.058	(0.980)	190735	39.6193	39.6192
	42 Acenaphthylene	152	9.028	9.038	(0.979)	1016824	39.8140	39.8140
	43 3-Nitroaniline	138	9.204	9.234	(0.998)	85632	18.8554	18.8554
*	44 Acenaphthene-d10	164	9.224	9.224	(1.000)	559746	40.0000	
	45 Acenaphthene	154	9.266	9.276	(1.004)	640428	39.7982	39.7981
	46 2,4-Dinitrophenol	184	9.338	9.348	(1.012)	155372	57.5294	57.5294
	47 4-Nitrophenol	109	9.431	9.441	(1.022)	191210	82.6032	82.6032
	48 Dibenzofuran	168	9.452	9.462	(1.025)	948556	40.5154	40.5153
	49 Diethylphthalate	149	9.804	9.814	(1.063)	708502	39.7582	39.7581
	50 4-Chlorophenyl-phenylether	204	9.866	9.876	(1.070)	427961	43.2394	43.2393
	51 Fluorene	166	9.876	9.886	(1.071)	785614	42.3012	42.3012
	52 2,4-Dinitrotoluene	165	9.524	9.534	(1.033)	229857	38.5998	38.5998
	53 4-Nitroaniline	138	9.990	10.021	(1.083)	127614	35.1621	35.1621
	54 4,6-Dinitro-2-methylphenol	198	10.032	10.052	(0.910)	312185	81.6017	81.6017
	55 N-Nitrosodiphenylamine	169	10.042	10.062	(0.911)	601419	45.1674	45.1674
	56 Azobenzene	77	10.063	10.073	(0.913)	927591	42.9687	42.9687
$	57 2,4,6-Tribromophenol	330	10.208	10.218	(1.107)	280055	72.9153	72.9152
	58 4-Bromophenyl-phenylether	248	10.466	10.476	(0.949)	268270	40.7697	40.7697
	59 Hexachlorobenzene	284	10.653	10.663	(0.966)	280323	39.2392	39.2391
	60 Pentachlorophenol	266	10.880	10.890	(0.987)	303793	71.0016	71.0015
*	61 Phenanthrene-d10	188	11.025	11.035	(1.000)	1017129	40.0000	
	62 Phenanthrene	178	11.056	11.066	(1.003)	1176942	41.8614	41.8613
	63 Anthracene	178	11.108	11.128	(1.008)	1148898	39.9525	39.9524
	64 Carbazole	167	11.305	11.325	(1.025)	5248	0.25978	0.2597
	65 Di-n-butylphthalate	149	11.781	11.780	(1.069)	1276883	40.4502	40.4501
	66 Fluoranthene	202	12.526	12.536	(1.136)	1278001	39.4961	39.4960
	67 Benzidine	184	12.692	12.691	(0.887)	2565	2.47785	2.4778
	68 Pyrene	202	12.805	12.815	(0.894)	1344607	37.8689	37.8688
$	69 Terphenyl-d14	244	12.992	13.002	(0.907)	1011187	36.6401	36.6401
	70 Butylbenzylphthalate	149	13.613	13.623	(0.951)	548693	36.1521	36.1520
	71 bis(2-Ethylhexyl)phthalate	149	14.327	14.337	(1.001)	824607	39.4526	39.4525
	72 3,3'-Dichlorobenzidine	252	14.275	14.295	(0.997)	323485	31.0038	31.0038
	73 Benzo(a)anthracene	228	14.286	14.306	(0.998)	1371259	40.4083	40.4083
*	74 Chrysene-d12	240	14.317	14.327	(1.000)	1033863	40.0000	

08/31/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV09.D
Report Date: 31-Aug-2004 23:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	14.358	14.378	(1.003)	1224260	35.8394	35.8393
76 Di-n-octylphthalate	149	15.238	15.248	(0.909)	1373987	38.8335	38.8335
77 Benzo(b)fluoranthene	252	16.004	16.055	(0.954)	1320760	32.7763	32.7763(AH)
78 Benzo(k)fluoranthene	252	16.055	16.096	(0.957)	1418568	47.5450	47.5449(A)
79 Benzo(a)pyrene	252	16.645	16.686	(0.993)	1136894	39.5803	39.5802
* 80 Perylene-d12	264	16.770	16.780	(1.000)	845338	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.367	19.460	(1.155)	1294177	37.3919	37.3918
82 Dibenz(a,h)anthracene	278	19.409	19.481	(1.157)	1137870	37.6031	37.6031
83 Benzo(g,h,i)perylene	276	20.102	20.164	(1.199)	991528	37.0243	37.0242

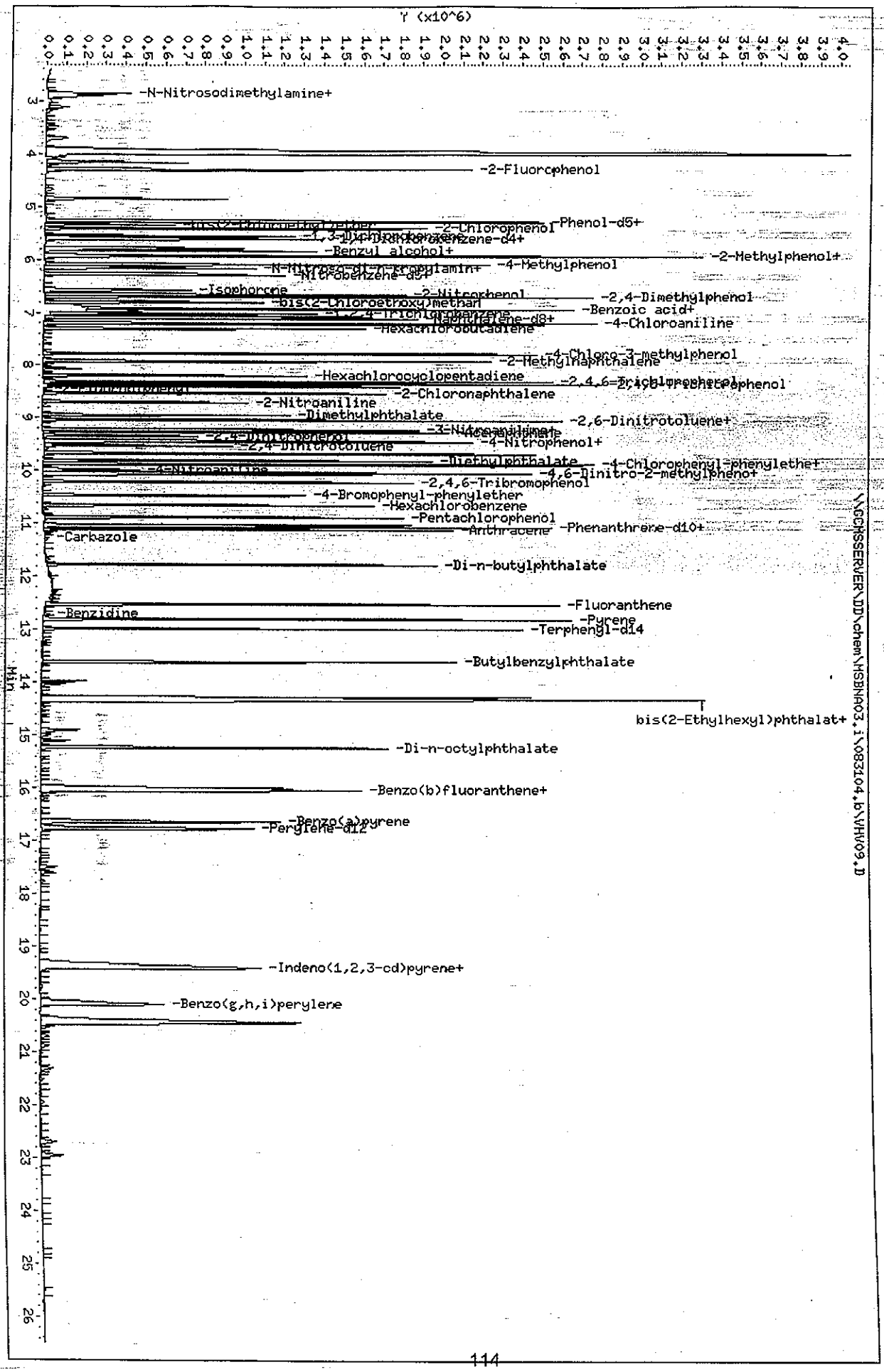
08/31/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV09.D
Date : 31-AUG-2004 18:32
Client ID: CURTIS&TOMPKINS
Sample Info: MS.QC263128
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV10.D
Report Date: 31-Aug-2004 23:16

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 19:10 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : MSD,QC263129
Misc Info : 94212,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	42	2.910	2.910	(0.521)	160021	31.9117	31.9117
	2 Pyridine	79	2.868	2.859	(0.513)	266939	28.1917	28.1917
$	3 2-Fluorophenol	112	4.297	4.256	(0.769)	581906	72.3076	72.3076
$	4 Phenol-d5	99	5.259	5.260	(0.941)	781230	69.4980	69.4979
	5 Phenol	94	5.280	5.270	(0.944)	873186	68.9304	68.9303
	6 Aniline	66	5.280	5.291	(0.944)	389730	88.2651	88.2650
	7 bis(2-Chloroethyl)ether	63	5.342	5.353	(0.956)	238838	34.0384	34.0383
	8 2-Chlorophenol	128	5.414	5.405	(0.969)	651635	76.9375	76.9375
	9 1,3-Dichlorobenzene	146	5.549	5.550	(0.993)	337766	33.7395	33.7394
*	10 1,4-Dichlorobenzene-d4	152	5.590	5.591	(1.000)	257221	40.0000	
	11 1,4-Dichlorobenzene	146	5.611	5.612	(1.004)	357368	34.2211	34.2211
	12 Benzyl alcohol	108	5.777	5.788	(1.033)	218079	35.0129	35.0128
	13 2-Methylphenol	107	5.921	5.922	(1.059)	549315	77.1022	77.1021
	14 1,2-Dichlorobenzene	146	5.818	5.819	(1.041)	318158	33.2727	33.2726
	15 bis(2-Chloroisopropyl) ether	45	5.932	5.943	(1.061)	429891	34.3338	34.3338
	16 4-Methylphenol	107	6.087	6.098	(1.089)	819471	75.3183	75.3182
	17 N-Nitroso-di-n-propylamine	70	6.128	6.140	(1.096)	143757	24.4919	24.4919
	18 Hexachloroethane	117	6.160	6.160	(1.102)	126745	33.6942	33.6942
$	19 Nitrobenzene-d5	82	6.263	6.274	(0.886)	379077	34.1152	34.1151
	20 Nitrobenzene	77	6.284	6.295	(0.889)	390779	35.5528	35.5528

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV10.D
Report Date: 31-Aug-2004 23:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	6.563	6.564	(0.928)	629990	32.8589	32.8589
	22 2,4-Dimethylphenol	122	6.698	6.709	(0.947)	543503	85.7392	85.7391
	23 2-Nitrophenol	139	6.656	6.657	(0.941)	359212	69.7513	69.7513
	24 bis(2-Chloroethoxy)methane	93	6.801	6.812	(0.962)	388045	33.7410	33.7410
	25 Benzoic acid	122	6.977	6.937	(0.987)	439816	95.6778	95.6777(M)
	26 2,4-Dichlorophenol	162	6.925	6.937	(0.980)	588934	73.5693	73.5693
	27 1,2,4-Trichlorobenzene	180	7.019	7.030	(0.993)	313879	33.8844	33.8844
*	28 Naphthalene-d8	136	7.070	7.081	(1.000)	902488	40.0000	
	29 Naphthalene	128	7.101	7.112	(1.004)	914996	35.7715	35.7715
	30 4-Chloroaniline	127	7.195	7.195	(1.018)	247405	24.6721	24.6721
	31 Hexachlorobutadiene	225	7.298	7.309	(1.032)	196431	35.5280	35.5280
	32 4-Chloro-3-methylphenol	107	7.774	7.775	(1.100)	628955	74.9071	74.9071
	33 2-Methylnaphthalene	142	7.919	7.930	(1.120)	614798	34.6153	34.6152
	34 Hexachlorocyclopentadiene	237	8.188	8.189	(0.888)	203914	42.6654	42.6654
	35 2,4,6-Trichlorophenol	196	8.302	8.313	(0.900)	460821	72.5719	72.5718
	36 2,4,5-Trichlorophenol	196	8.354	8.354	(0.906)	487577	75.2226	75.2226
$	37 2-Fluorobiphenyl	172	8.385	8.396	(0.909)	712705	35.6635	35.6635
	38 2-Chloronaphthalene	162	8.519	8.530	(0.924)	616769	36.8441	36.8441
	39 2-Nitroaniline	65	8.695	8.706	(0.943)	207849	34.1126	34.1126
	40 Dimethylphthalate	163	8.944	8.955	(0.970)	684853	34.1250	34.1250
	41 2,6-Dinitrotoluene	165	9.037	9.058	(0.980)	183447	36.2841	36.2840
	42 Acenaphthylene	152	9.027	9.038	(0.979)	925042	34.4891	34.4890
	43 3-Nitroaniline	138	9.202	9.234	(0.998)	92334	19.3594	19.3593
*	44 Acenaphthene-d10	164	9.223	9.224	(1.000)	587843	40.0000	
	45 Acenaphthene	154	9.265	9.276	(1.004)	600327	35.5231	35.5230
	46 2,4-Dinitrophenol	184	9.337	9.348	(1.012)	124935	45.6941	45.6941
	47 4-Nitrophenol	109	9.430	9.441	(1.022)	184282	75.8052	75.8051
	48 Dibenzofuran	168	9.451	9.462	(1.025)	865192	35.1883	35.1883
	49 Diethylphthalate	149	9.803	9.814	(1.063)	640218	34.2092	34.2091
	50 4-Chlorophenyl-phenylether	204	9.865	9.876	(1.070)	391956	37.7088	37.7087
	51 Fluorene	166	9.875	9.886	(1.071)	719736	36.9017	36.9017
	52 2,4-Dinitrotoluene	165	9.523	9.534	(1.033)	210914	33.7258	33.7258
	53 4-Nitroaniline	138	9.979	10.021	(1.082)	120559	31.6305	31.6304
	54 4,6-Dinitro-2-methylphenol	198	10.030	10.052	(0.910)	274550	70.0706	70.0705
	55 N-Nitrosodiphenylamine	169	10.041	10.062	(0.911)	541724	39.7240	39.7240
	56 Azobenzene	77	10.062	10.073	(0.913)	851526	38.5142	38.5141
$	57 2,4,6-Tribromophenol	330	10.206	10.218	(1.107)	250648	62.8361	62.8360
	58 4-Bromophenyl-phenylether	248	10.465	10.476	(0.949)	241656	35.8584	35.8583
	59 Hexachlorobenzene	284	10.651	10.663	(0.966)	250115	34.1844	34.1844
	60 Pentachlorophenol	266	10.879	10.890	(0.987)	233261	55.4621	55.4621
*	61 Phenanthrene-d10	188	11.024	11.035	(1.000)	1041715	40.0000	
	62 Phenanthrene	178	11.055	11.066	(1.003)	1055572	36.6615	36.6614
	63 Anthracene	178	11.107	11.128	(1.008)	1035798	35.1694	35.1693
	64 Carbazole	167	11.304	11.325	(1.025)	5439	0.26288	0.2628
	65 Di-n-butylphthalate	149	11.780	11.780	(1.069)	1164791	36.0283	36.0283
	66 Fluoranthene	202	12.525	12.536	(1.136)	1181520	35.6526	35.6525
	67 Benzidine	184	12.690	12.691	(0.886)	4269	3.97688	3.9768
	68 Pyrene	202	12.804	12.815	(0.894)	1260287	34.2283	34.2282
$	69 Terphenyl-d14	244	12.991	13.002	(0.907)	901439	31.4986	31.4985
	70 Butylbenzylphthalate	149	13.612	13.623	(0.951)	513118	32.6024	32.6024
	71 bis(2-Ethylhexyl)phthalate	149	14.326	14.337	(1.001)	760026	35.0659	35.0659
	72 3,3'-Dichlorobenzidine	252	14.274	14.295	(0.997)	326363	30.1641	30.1641
	73 Benzo(a)anthracene	228	14.284	14.306	(0.998)	1238878	35.2054	35.2053
*	74 Chrysene-d12	240	14.315	14.327	(1.000)	1072097	40.0000	

08/31/4

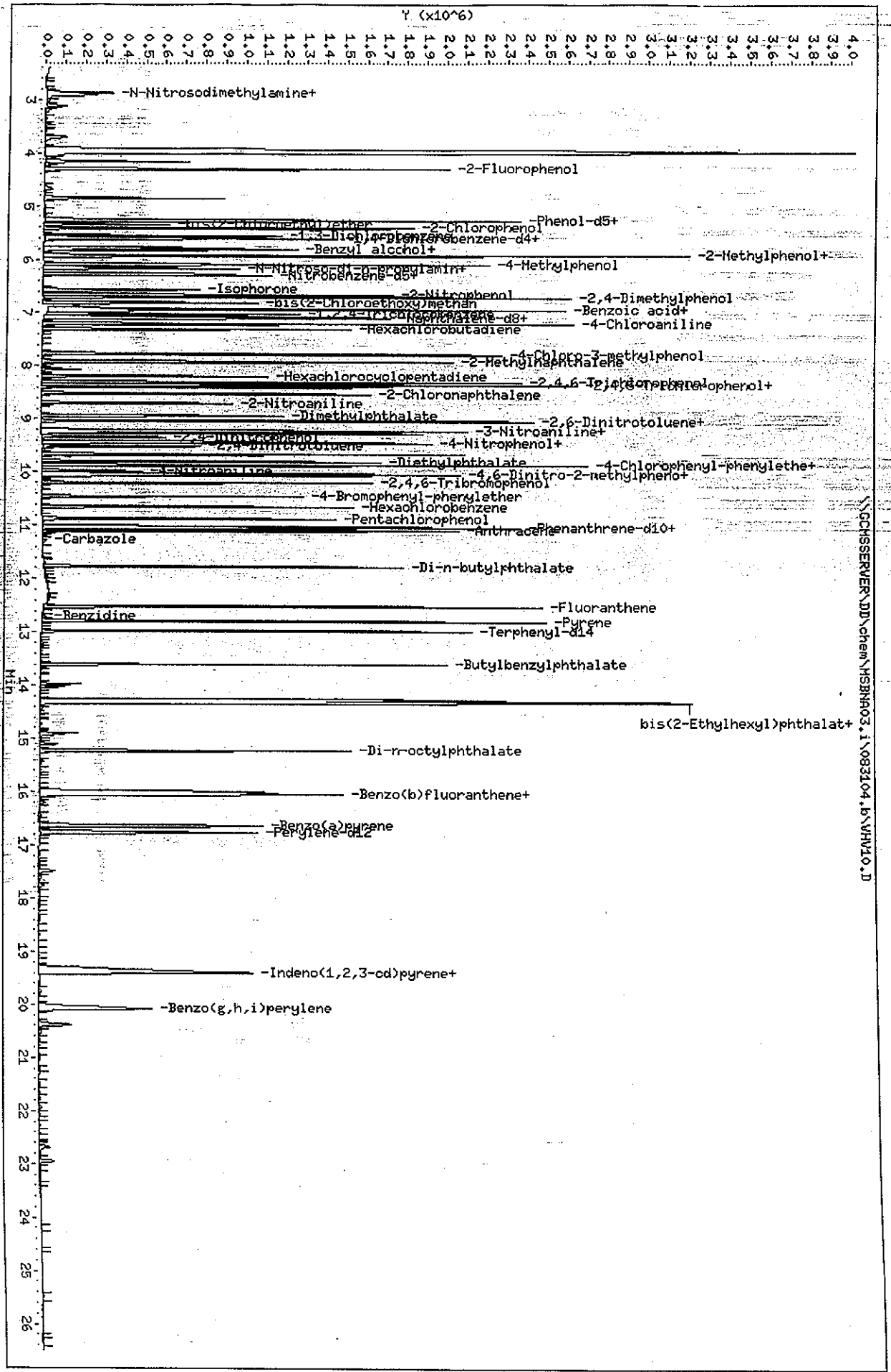
Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV10.D
Report Date: 31-Aug-2004 23:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	14.346	14.378	(1.002)	1113203	31.4261	31.4260
76 Di-n-octylphthalate	149	15.237	15.248	(0.909)	1232371	33.7216	33.7216
77 Benzo(b)fluoranthene	252	16.003	16.055	(0.954)	1211431	29.5639	29.5638(AH)
78 Benzo(k)fluoranthene	252	16.054	16.096	(0.957)	1255322	40.7336	40.7335(A)
79 Benzo(a)pyrene	252	16.644	16.686	(0.993)	1034857	34.8805	34.8804
* 80 Perylene-d12	264	16.768	16.780	(1.000)	873147	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.366	19.460	(1.155)	1186906	33.2004	33.2003
82 Dibenz(a,h)anthracene	278	19.408	19.481	(1.157)	1037375	33.4867	33.4867
83 Benzo(g,h,i)perylene	276	20.091	20.164	(1.198)	901403	32.5869	32.5869

08/31/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\WHV10.D
Date : 31-AUG-2004 19:10
Client ID: CURTIS&TOMPKINS
Sample Info: MSD,QC263129
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u
Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25
Y (x10^6)
Min
-N-Nitrosodimethylamine+
-2-Fluorophenol
-Phenol-d5+
-2-Chlorophenol
-Benzyl alcohol+
-2-Methylphenol+
-4-Methylphenol
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-bis(2-Chloroethoxy)methan
-Benzoic acid+
-Hexachlorobutadiene
-4-Chloroaniline
-4-Chloro-3-methylphenol
-2-Methylnaphthalene
-Hexachlorocyclopentadiene
-2-Chloronaphthalene
-2-Nitroaniline
-Dimethylphthalate
-2,6-Dinitrotoluene+
-3-Nitroaniline+
-4-Nitrophenol+
-Diethylphthalate
-4-Chlorophenyl-phenylethe+
-2,4,6-Tribromophenol
-4-Bromophenyl-phenylether
-Hexachlorobenzene
-Pentachlorophenol
-Phenanthrene-d10+
-Carbazole
-Di-n-butylphthalate
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-d14
-Butylbenzylphthalate
bis(2-Ethylhexyl)phthalat+
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-d12
-Indeno(1,2,3-cd)pyrene+
-Benzo(g,h,i)perylene
\\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\WHV10.D

Curtis & Tompkins, Ltd.

Initial Calibration Data

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU01.D

Date : 30-AUG-2004 14:14

Client ID: dftpp tune std

Instrument: MSBNA03.i

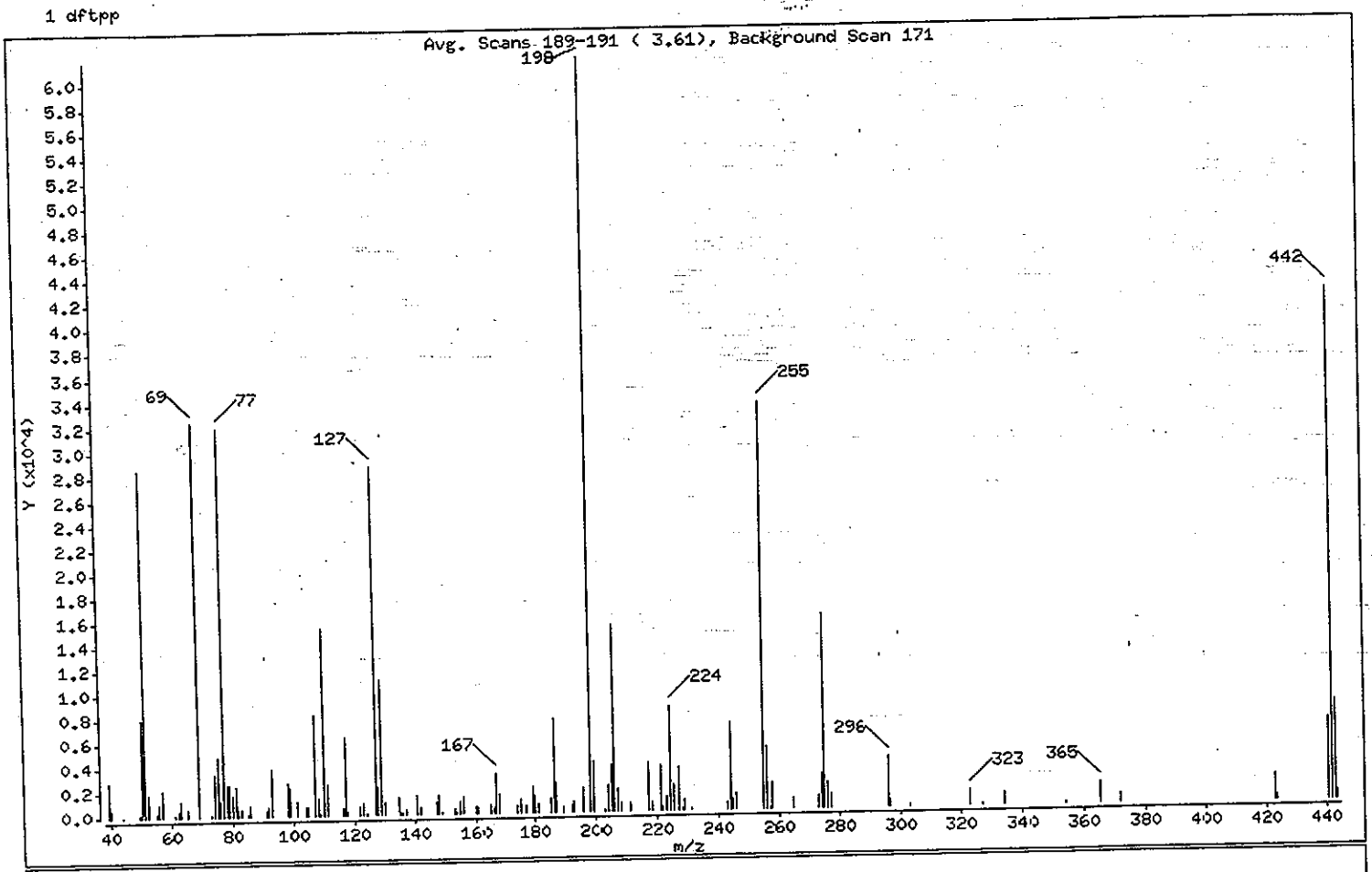
Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.09
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	46.37
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.65
275	10.00 - 30.00% of mass 198	25.82
365	Greater than 1.00% of mass 198	2.75
441	Present, but less than mass 443	10.79
442	40.00 - 99.99% of mass 198	67.91
443	17.00 - 23.00% of mass 442	13.13 (19.33)

8270 BKL

8/31/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU01.D

Date : 30-AUG-2004 14:14

Client ID: dftpp tune std

Instrument: MSBNA03.i

Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: VHU01.D

Spectrum: Avg. Scans 189-191 (3.61), Background Scan 171

Location of Maximum: 198.00

Number of points: 131

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39.00	2841	101.00	1074	166.00	392	228.00	182
40.00	537	104.00	760	167.00	3247	229.00	790
44.00	19	105.00	750	168.00	1565	231.00	183
49.00	163	107.00	8284	174.00	602	243.00	582
50.00	7990	108.00	1362	175.00	1141	244.00	7062
51.00	28520	109.00	192	177.00	625	245.00	926
52.00	1795	110.00	15356	179.00	2147	246.00	1317
55.00	352	111.00	2566	180.00	1366	255.00	33440
56.00	932	116.00	561	181.00	675	256.00	5092
57.00	2082	117.00	6442	185.00	1116	257.00	176
61.00	183	118.00	214	186.00	7746	258.00	2076
62.00	377	122.00	651	187.00	2416	265.00	878
63.00	1310	123.00	927	189.00	435	273.00	1065
65.00	641	124.00	175	192.00	603	274.00	2883
69.00	32424	127.00	28696	193.00	882	275.00	15980
73.00	153	128.00	2300	196.00	2019	276.00	2080
74.00	3367	129.00	11165	198.00	61880	277.00	1133
75.00	4872	130.00	985	199.00	4116	296.00	4170
76.00	1268	135.00	1395	203.00	176	297.00	610
77.00	31904	136.00	180	204.00	2195	303.00	211
78.00	2524	137.00	361	205.00	3866	323.00	1301
79.00	2512	141.00	1544	206.00	15376	327.00	170
80.00	1651	142.00	588	207.00	1833	334.00	991
81.00	2353	147.00	941	208.00	688	354.00	172
82.00	614	148.00	1542	211.00	671	365.00	1702
83.00	637	149.00	171	217.00	4045	372.00	647
85.00	202	153.00	369	218.00	718	423.00	2174
86.00	877	154.00	198	221.00	3732	424.00	358
91.00	496	155.00	1018	222.00	222	441.00	6679
92.00	666	156.00	1375	223.00	1162	442.00	42024
93.00	3816	160.00	520	224.00	8539	443.00	8125
98.00	2683	161.00	622	225.00	2172	444.00	706
99.00	2257	165.00	662	227.00	3628		

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU01.D

Date : 30-AUG-2004 14:14

Client ID: dftpp tune std

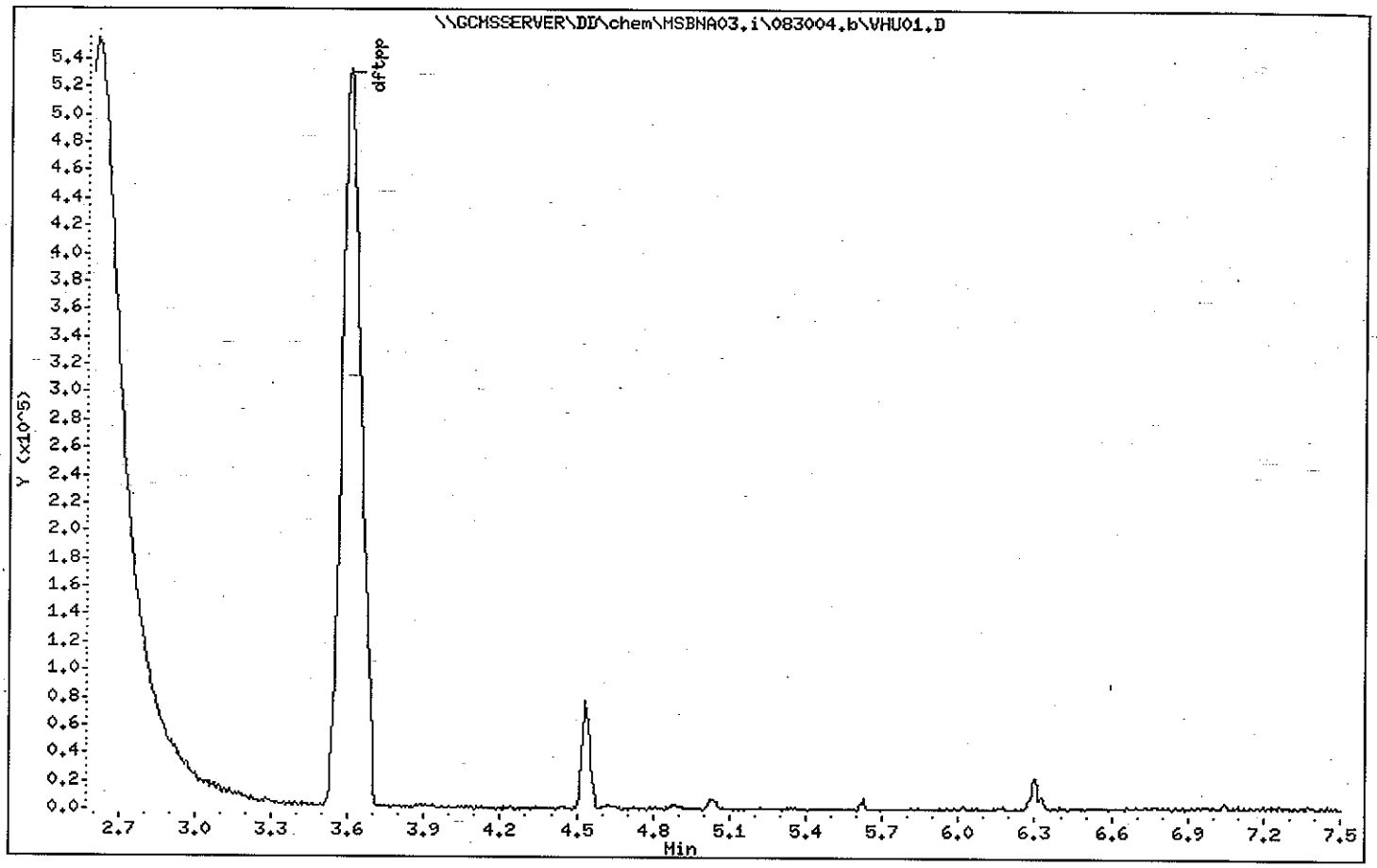
Instrument: MSBNA03.i

Sample Info: TUN,04WS1200

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV01.D

Date : 31-AUG-2004 13:13

Client ID: dftpp tune std

Sample Info: TUN,04WS1200

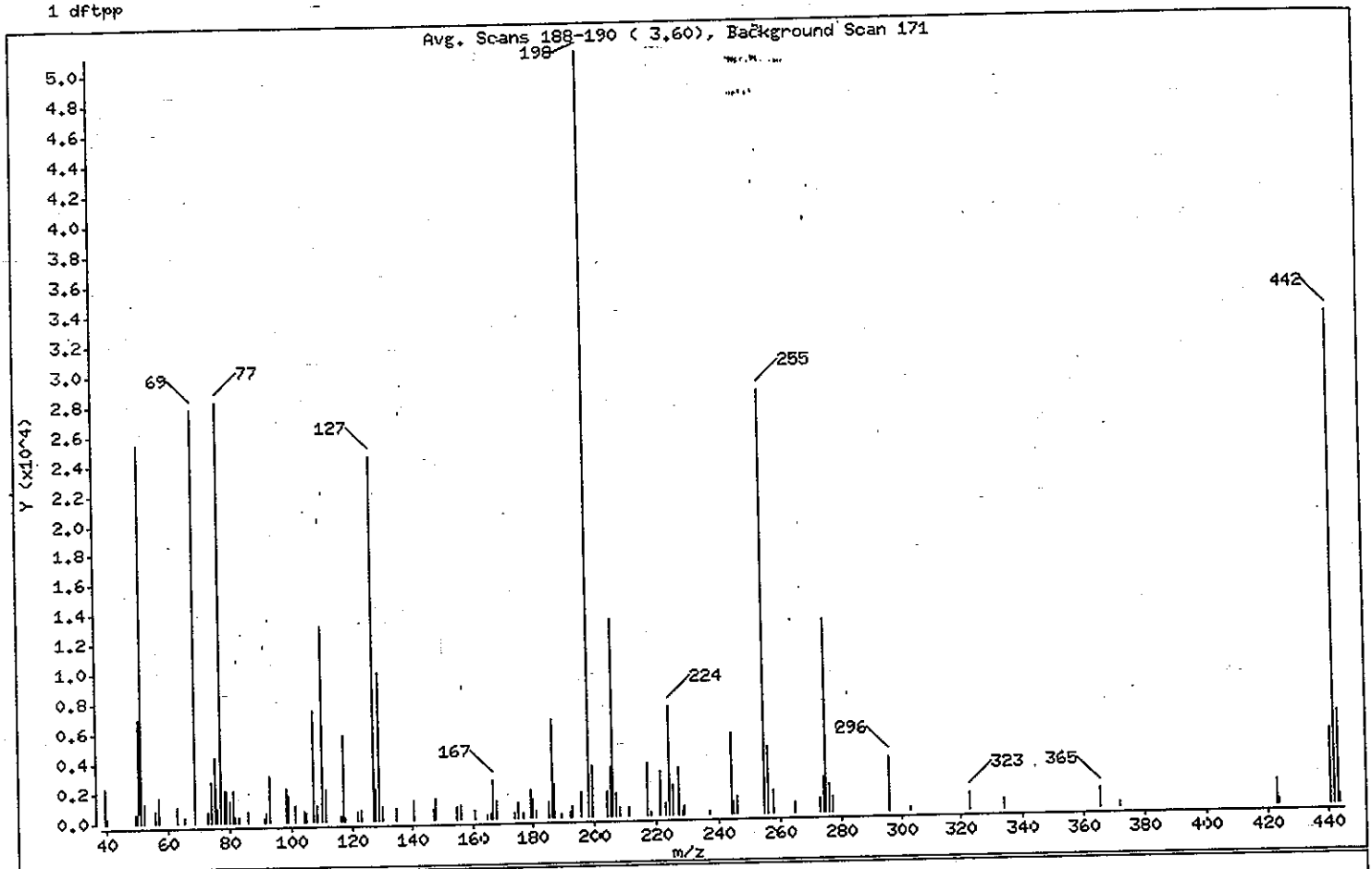
Instrument: MSBNA03.i

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.63
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.08
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.77
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.69
275	10.00 - 30.00% of mass 198	25.33
365	Greater than 1.00% of mass 198	2.57
441	Present, but less than mass 443	9.90
442	40.00 - 99.99% of mass 198	64.53
443	17.00 - 23.00% of mass 442	12.25 (18.98)

9/31/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV01.D

Date : 31-AUG-2004 13:13

Client ID: dftpp tune std

Sample Info: TUN,04WS1200

Instrument: MSBNA03.i

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: VHV01.D

Spectrum: Avg. Scans 188-190 (3.60), Background Scan 171

Location of Maximum: 198.00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	2372	101.00	1091	175.00	1021	229.00	565
40.00	412	104.00	666	177.00	410	237.00	178
49.00	617	105.00	639	179.00	1893	244.00	5488
50.00	6948	107.00	7394	180.00	1290	245.00	770
51.00	25424	108.00	1037	181.00	429	246.00	1124
52.00	1312	110.00	13103	185.00	1077	255.00	28416
56.00	817	111.00	2116	186.00	6606	256.00	4431
57.00	1693	116.00	350	187.00	2185	258.00	1507
63.00	1092	117.00	5791	189.00	179	265.00	689
65.00	362	118.00	210	192.00	366	273.00	978
69.00	27704	122.00	618	193.00	756	274.00	2386
73.00	733	123.00	695	196.00	1701	275.00	12974
74.00	2671	127.00	24472	198.00	51224	276.00	1860
75.00	4387	128.00	2083	199.00	3427	277.00	1035
76.00	978	129.00	9885	204.00	1651	296.00	3613
77.00	28208	130.00	909	205.00	3327	303.00	178
78.00	2107	135.00	793	206.00	13237	323.00	1196
79.00	2097	141.00	1283	207.00	1566	334.00	718
80.00	1374	147.00	728	208.00	572	365.00	1319
81.00	2176	148.00	1465	211.00	582	372.00	361
82.00	372	155.00	786	217.00	3483	423.00	1625
83.00	355	156.00	979	218.00	187	424.00	372
86.00	690	161.00	567	221.00	2924	441.00	5071
91.00	232	165.00	209	223.00	877	442.00	33056
92.00	556	166.00	363	224.00	7320	443.00	6273
93.00	3050	167.00	2568	225.00	1969	444.00	617
98.00	2290	168.00	1195	227.00	3220		
99.00	1797	174.00	385	228.00	193		

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV01.D

Date : 31-AUG-2004 13:13

Client ID: dftpp tune std

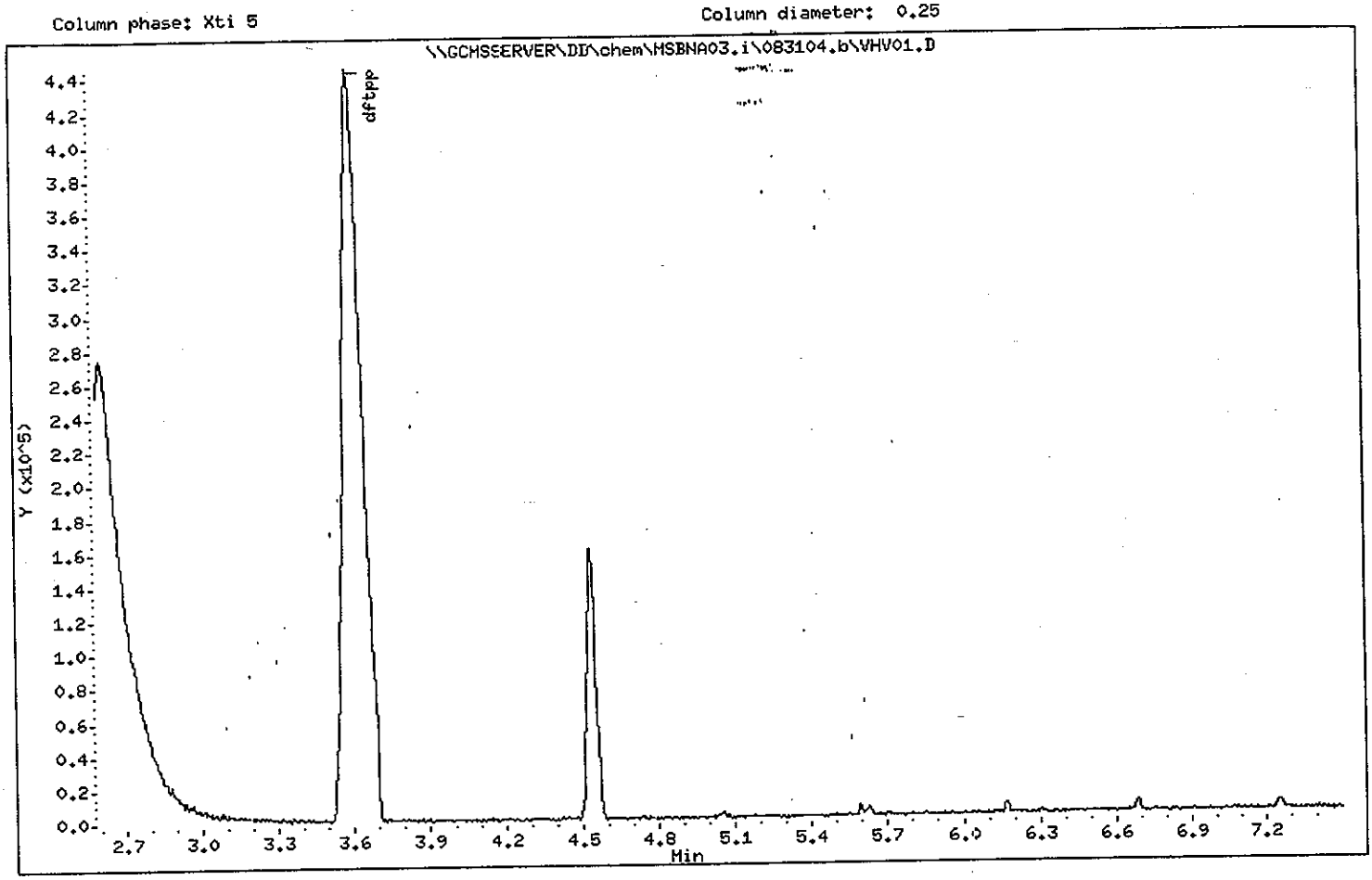
Sample Info: TUN,04WS1200

Instrument: MSBNA03.i

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



TSV NNOS 8270 Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524350774002 Name: 6PTBNA3 Type: (normal) Date: 30-AUG-2004 15:19 Inj Vol (uL): 1

See grant reports for manual integrations due to splitting + tailing.

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	vhu03	524350774003	2ug/mL	30-AUG-2004 15:19	04WS1376
2	vhu04	524350774004	10ug/mL	30-AUG-2004 15:57	04WS1377
3	vhu05	524350774005	20ug/mL	30-AUG-2004 16:34	04WS1378
4	vhu06	524350774006	50ug/mL	30-AUG-2004 17:11	04WS1379
5	vhu07	524350774007	80ug/mL	30-AUG-2004 17:50	04WS1380
6	vhu08	524350774008	120ug/mL	30-AUG-2004 18:26	04WS1381
7	vhu09	524350774009	160ug/mL	30-AUG-2004 19:05	04WS1382

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.8022m	0.7937	0.7784	0.7757	0.7715	0.7574	AVRG	R		1.282390		ng	0.7798	2	0.0500	0.99	15	
Pyridine		1.4207	1.4631	1.4700	1.4838	1.4866	1.5106	AVRG	R		0.679135		ng	1.4725	2	0.0500	0.99	15	
Phenol		1.9889	2.0209	1.9956	1.9831	1.8730	1.9581	AVRG	R		0.507633		ng	1.9699	3	0.0500	0.99	15	
Aniline		0.8390	0.8692	0.7766	0.6582m	0.5860m	0.3908m	AVRG	R		1.456369		ng	0.6866	26	0.0500	0.99	15	rsd
bis(2-Chloroethyl)ether		1.1098	1.0896	1.0616	1.0850	1.0731	1.1277	AVRG	R		0.916457		ng	1.0912	2	0.0500	0.99	15	
2-Chlorophenol		1.2815	1.2831	1.3002	1.3275	1.3403	1.3700	AVRG	R		0.759242		ng	1.3171	3	0.0500	0.99	15	
1,3-Dichlorobenzene		1.5197	1.5066	1.5340	1.5720	1.5880	1.6205	AVRG	R		0.642345		ng	1.5568	3	0.0500	0.99	15	
1,4-Dichlorobenzene		1.6118	1.6339	1.6670	1.6817	1.6236	1.5259	AVRG	R		0.615779		ng	1.6240	3	0.0500	0.99	15	
Benzyl alcohol		0.9157	0.9499	0.9622	0.9816	1.0082	0.9939	AVRG	R		1.032430		ng	0.9686	3	0.0500	0.99	15	
1,2-Dichlorobenzene		1.4697	1.4444	1.4825	1.5034	1.5672	1.4548	AVRG	R		0.672498		ng	1.4870	3	0.0500	0.99	15	
2-Methylphenol		1.1106	1.1246	1.1276	1.1492	1.0918	1.0437	AVRG	R		0.902592		ng	1.1079	3	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		2.1839	2.0735	1.9810	1.8952	1.8166	1.7324	AVRG	R		0.513583		ng	1.9471	9	0.0500	0.99	15	
4-Methylphenol		1.6682	1.6896	1.7124	1.6860	1.6802	1.7153m	AVRG	R		0.591035		ng	1.6919	1	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.9450	0.9528	0.9502	0.9446	0.9215	0.7625	AVRG	R		1.095571		ng	0.9128	8	0.0500	0.99	15	
Hexachloroethane		0.6017	0.5931	0.6048	0.6070	0.5833	0.5198	AVRG	R		1.709507		ng	0.5850	6	0.0500	0.99	15	
Nitrobenzene		0.4923	0.4853	0.4886	0.4924	0.5028	0.4616	AVRG	R		2.052694		ng	0.4872	3	0.0500	0.99	15	
Isophorone		0.8126	0.8077	0.8500	0.8523	0.8880	0.8879m	AVRG	R		1.176796		ng	0.8498	4	0.0500	0.99	15	
2-Nitrophenol		0.1921	0.2007	0.2232	0.2254	0.2585	0.2695	AVRG	R		4.381100		ng	0.2283	13	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL OK except Aniline + Benzidine final %RSD - NO
- Benzidine fails min-RF - NO
BV: Aniline ↓; 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ final %D
- 4-Chloroaniline ↓ fails warning limits

8/31/07

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524350774002 Name: 6PTBNA3 Type: (normal) Date: 30-AUG-2004 15:19 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2604	0.2722	0.2687	0.2628	0.3111	0.3106	AVRG	R		3.559253		ng	0.2810	8	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4740	0.4771	0.5029	0.5221	0.5571	0.5252	AVRG	R		1.961813		ng	0.5097	6	0.0500	0.99	15	
Benzoic acid		0.0958	0.1275	0.1709	0.2021m	0.2128m	0.2255m	QUAD	R	6.866387	4.931780	-0.01928	ng	0.1724	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3183	0.3282	0.3504	0.3764	0.3919	0.3636	AVRG	R		2.818459		ng	0.3548	8	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3764	0.3810	0.4131	0.4263	0.4463	0.4203	AVRG	R		2.435675		ng	0.4106	7	0.0500	0.99	15	
Naphthalene	1.0882	1.0958	1.1110	1.1756	1.2092	1.1521	1.1041	AVRG	R		0.882063		ng	1.1337	4	0.0500	0.99	15	
4-Chloroaniline		0.3877	0.4044	0.4548	0.4505	0.4874	0.4819	AVRG	R		2.249984		ng	0.4444	9	0.0500	0.99	15	
Hexachlorobutadiene		0.2400	0.2389	0.2583	0.2594	0.2483	0.2253	AVRG	R		4.080771		ng	0.2451	5	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.3406	0.3479	0.3722	0.3986	0.3954	0.3782	AVRG	R		2.687107		ng	0.3721	6	0.0500	0.99	15	
2-Methylnaphthalene	0.7099	0.7563	0.7607	0.8274	0.8725	0.8411	0.7424	AVRG	R		1.270330		ng	0.7872	8	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2314	0.2664	0.3325	0.3482	0.3523	0.3240	LINR	R	2.121670	2.921986		ng	0.3091	0.995	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3991	0.4099	0.4397	0.4617	0.4408	0.4413	AVRG	R		2.314395		ng	0.4321	5	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.4075	0.4317	0.4642	0.4506	0.4524	0.4399	AVRG	R		2.267287		ng	0.4411	5	0.0500	0.99	15	
2-Chloronaphthalene		1.1364	1.1630	1.1805	1.2036	1.1056	1.0454	AVRG	R		0.877904		ng	1.1391	5	0.0500	0.99	15	
2-Nitroaniline		0.4199	0.4365	0.4174	0.4068	0.4117	0.3953	AVRG	R		2.411952		ng	0.4146	3	0.0500	0.99	15	
Dimethylphthalate		1.3341	1.3447	1.3737	1.3788	1.3971	1.3652	AVRG	R		0.732280		ng	1.3656	2	0.0500	0.99	15	
2,6-Dinitrotoluene		0.3315	0.3490	0.3569	0.3446	0.3515	0.3307	AVRG	R		2.906746		ng	0.3440	3	0.0500	0.99	15	
Acenaphthylene	1.7819	1.8864	1.9431	1.9336	1.8769	1.7291	1.6245	AVRG	R		0.547925		ng	1.8251	6	0.0500	0.99	15	
3-Nitroaniline		0.2705	0.2834	0.3210	0.3438	0.3808	0.3478	AVRG	R		3.081278		ng	0.3245	13	0.0500	0.99	15	
Acenaphthene	1.1457	1.1664	1.1806	1.1454	1.1967	1.1269	1.0879	AVRG	R		0.869609		ng	1.1499	3	0.0500	0.99	15	
2,4-Dinitrophenol		0.1042	0.1486	0.1911	0.2013	0.2175	0.2313	QUAD	R	5.053757	4.957854	-0.02086	ng	0.1823	1.000	0.0500	0.99	15	
4-Nitrophenol		0.1555	0.1621	0.1659	0.1779	0.1744	0.1566	AVRG	R		6.045294		ng	0.1654	6	0.0500	0.99	15	
Dibenzofuran		1.7625	1.7404	1.8515	1.6653	1.6412	1.3776	AVRG	R		0.597706		ng	1.6731	10	0.0500	0.99	15	
2,4-Dinitrotoluene		0.4039	0.4226	0.4337	0.4278	0.4229	0.4424	AVRG	R		2.349949		ng	0.4255	3	0.0500	0.99	15	
Diethylphthalate		1.2836	1.2861	1.2852	1.2780	1.3628	1.1450	AVRG	R		0.785265		ng	1.2735	6	0.0500	0.99	15	
Fluorene	1.3783	1.4666	1.4760	1.5119	1.3121	1.1232	1.0220m	AVRG	R		0.753485		ng	1.3272	14	0.0500	0.99	15	
4-Chlorophenyl-phenylether	0.7075	0.7779	0.7841	0.7972	0.6355	0.5415		AVRG	R		1.413860		ng	0.7073	14	0.0500	0.99	15	
4-Nitroaniline		0.2236	0.2356	0.2427	0.2599	0.2934	0.3008	AVRG	R		3.855739		ng	0.2594	12	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1166	0.1394	0.1677	0.1724	0.1561		AVRG	R		6.646658		ng	0.1505	15	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.5264	0.5121	0.5352	0.5400	0.5617	0.4665	AVRG	R		1.909696		ng	0.5236	6	0.0500	0.99	15	
Azobenzene		0.8951	0.8738	0.9311	0.8760	0.7751	0.7426	AVRG	R		1.177909		ng	0.8490	9	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03 Reviewed By:
Calnum: 524350774002 Name: 6PTBNA3 Type: (normal) Date: 30-AUG-2004 15:19 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2427	0.2455	0.2712	0.2848	0.2614	0.2470	AVRG	R		3.864398		ng	0.2588	6	0.0500	0.99	15	
Hexachlorobenzene		0.2602	0.2622	0.3087	0.2927	0.2911	0.2708	AVRG	R		3.559405		ng	0.2809	7	0.0500	0.99	15	
Pentachlorophenol		0.0813	0.1166	0.1498	0.1800	0.1795	0.1942	QUAD	R	6.382271	5.691738	-0.02368	ng	0.1502	0.999	0.0500	0.99	15	
Phenanthrene	1.0766	1.1242	1.1048	1.1692	1.1172	1.0870	1.0600	AVRG	R		0.904505		ng	1.1056	3	0.0500	0.99	15	
Anthracene	1.0806	1.1157	1.1044	1.1672	1.2341	1.1702	1.0440	AVRG	R		0.884257		ng	1.1309	6	0.0500	0.99	15	
Carbazole		0.6765	0.6975	0.7029	0.8467	0.9037	0.9394	AVRG	R		1.258706		ng	0.7945	15	0.0500	0.99	15	
Di-n-butylphthalate		1.2556	1.2639	1.2921	1.2863	1.1985	1.1521	AVRG	R		0.805536		ng	1.2414	4	0.0500	0.99	15	
Fluoranthene	1.1894	1.3158	1.3101	1.3691	1.2889	1.2657	1.1686	AVRG	R		0.785849		ng	1.2725	6	0.0500	0.99	15	
Benzidine		0.0039m	0.0375	0.0186	0.0392	0.0605	0.0806	AVRG	R		24.96836		ng	0.0401	69	0.0500	0.99	15	irf rsd ***
Pyrene	1.2540	1.3203	1.2809	1.3212	1.3179	1.4491	1.6730	AVRG	R		0.727930		ng	1.3738	11	0.0500	0.99	15	
Butylbenzylphthalate		0.5276	0.5448	0.5838	0.5856	0.6943		AVRG	R		1.702968		ng	0.5872	11	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3511	0.3696	0.4499	0.4209	0.4072	0.4234	AVRG	R		2.477217		ng	0.4037	9	0.0500	0.99	15	
Benzo(a)anthracene	1.2717	1.3044	1.2949	1.3489	1.2699	1.2889m	1.4120	AVRG	R		0.761648		ng	1.3129	4	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.8079	0.8197	0.8094	0.7830	0.7869	0.8452	AVRG	R		1.236605		ng	0.8087	3	0.0500	0.99	15	
Chrysene	1.2460	1.2473	1.2318	1.2714	1.3279	1.4156	1.5115	AVRG	R		0.756641		ng	1.3216	8	0.0500	0.99	15	
Di-n-octylphthalate		1.4278	1.5228	1.7116	1.7644	1.8248	1.7938	AVRG	R		0.597303		ng	1.6742	10	0.0500	0.99	15	
Benzo(b)fluoranthene	1.3535	1.5967	1.4614	2.0555	2.2917	2.7931		QUAD	R	2.358740	0.517931	-0.00050	ng	1.9253	0.999	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3532	1.4477	1.5926	1.5198	1.5541	1.1267	1.2885m	AVRG	R		0.708312		ng	1.4118	12	0.0500	0.99	15	
Benzo(a)pyrene	1.0673	1.2214	1.2892	1.4173	1.5139	1.6458		AVRG	R		0.735748		ng	1.3592	15	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.2262	1.4641	1.5256	1.7136	1.7755	1.8755	1.8836	AVRG	R		0.610596		ng	1.6377	15	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9894	1.1909	1.2671	1.4387	1.5002	1.5777	1.5903	QUAD	R	1.967712	0.673616	-0.00022	ng	1.3649	1.000	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.0435	1.2200	1.2615	1.3420	1.3272	1.3581	1.3182	AVRG	R		0.789136		ng	1.2672	9	0.0500	0.99	15	
2-Fluorophenol		1.2311	1.2278	1.2357	1.2521	1.2709	1.2912	AVRG	R		0.799057		ng	1.2515	2	0.0500	0.99	15	
Phenol-d5		1.7210	1.7395	1.7553	1.7714	1.7629	1.7384	AVRG	R		0.572058		ng	1.7481	1	0.0500	0.99	15	
Nitrobenzene-d5		0.4810	0.4755	0.4924	0.4955	0.5105	0.5000	AVRG	R		2.030494		ng	0.4925	3	0.0500	0.99	15	
2-Fluorobiphenyl		1.3676	1.4229	1.4477	1.3188	1.3456	1.2564	AVRG	R		0.735387		ng	1.3598	5	0.0500	0.99	15	
2,4,6-Tribromophenol		0.1908	0.2091	0.2500	0.2814	0.2937	0.2779	LINR	R	4.711985	3.407949		ng	0.2505	0.997	0.0500	0.99	15	
Terphenyl-d14		0.9792	0.9810	0.9981	1.0774	1.1072	1.2637	AVRG	R		0.936545		ng	1.0678	10	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU03.D
Report Date: 31-Aug-2004 09:13

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU03.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 15:19 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1376
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:13 target Quant Type: ISTD
Cal Date : 30-AUG-2004 15:19 Cal File: VHU03.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	2.892	2.912	(0.518)	5630	2.00000	1.5600
	2 Pyridine	79	2.882	2.860	(0.516)	8833	2.00000	1.2962
$	3 2-Fluorophenol	112	4.248	4.258	(0.761)	9939	2.00000	1.7160
$	4 Phenol-d5	99	5.231	5.262	(0.937)	14817	2.00000	1.8315
	5 Phenol	94	5.242	5.272	(0.939)	18079	2.00000	1.9830
	6 Aniline	66	5.273	5.282	(0.944)	8767	2.00000	2.7588
	7 bis(2-Chloroethyl)ether	63	5.325	5.344	(0.954)	9815	2.00000	1.9436
	8 2-Chlorophenol	128	5.387	5.407	(0.965)	11268	2.00000	1.8485
	9 1,3-Dichlorobenzene	146	5.542	5.551	(0.993)	13229	2.00000	1.8361
*	10 1,4-Dichlorobenzene-d4	152	5.583	5.593	(1.000)	185118	40.0000	
	11 1,4-Dichlorobenzene	146	5.542	5.614	(0.993)	13229	2.00000	1.7602(H)
	12 Benzyl alcohol	108	5.759	5.790	(1.032)	7149	2.00000	1.5948
	13 2-Methylphenol	107	5.904	5.914	(1.057)	9641	2.00000	1.8802
	14 1,2-Dichlorobenzene	146	5.821	5.821	(1.043)	13232	2.00000	1.9227
	15 bis(2-Chloroisopropyl) ether	45	5.925	5.945	(1.061)	19847	2.00000	2.2025
	16 4-Methylphenol	107	6.059	6.100	(1.085)	14275	2.00000	1.8230
	17 N-Nitroso-di-n-propylamine	70	6.090	6.141	(1.091)	8053	2.00000	1.9063
	18 Hexachloroethane	117	6.163	6.162	(1.104)	4794	2.00000	1.7708
$	19 Nitrobenzene-d5	82	6.256	6.276	(0.886)	15184	2.00000	1.8644
	20 Nitrobenzene	77	6.277	6.297	(0.889)	16173	2.00000	2.0076

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU03.D
Report Date: 31-Aug-2004 09:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.536	6.566	(0.925)	25478	2.00000	1.8131
	22 2,4-Dimethylphenol	122	6.680	6.700	(0.946)	8522	2.00000	1.8343
	23 2-Nitrophenol	139	6.649	6.659	(0.941)	5359	2.00000	1.4198
	24 bis(2-Chloroethoxy)methane	93	6.794	6.814	(0.962)	14804	2.00000	1.7563
	26 2,4-Dichlorophenol	162	6.918	6.938	(0.979)	9565	2.00000	1.6303
	27 1,2,4-Trichlorobenzene	180	7.022	7.032	(0.994)	12176	2.00000	1.7934
*	28 Naphthalene-d8	136	7.063	7.083	(1.000)	661433	40.0000	
	29 Naphthalene	128	7.094	7.104	(1.004)	35989	2.00000	1.9197
	30 4-Chloroaniline	127	7.188	7.197	(1.018)	12166	2.00000	1.6553
	31 Hexachlorobutadiene	225	7.301	7.301	(1.034)	7383	2.00000	1.8220
	32 4-Chloro-3-methylphenol	107	7.757	7.777	(1.098)	10551	2.00000	1.7145
	33 2-Methylnaphthalene	142	7.912	7.932	(1.120)	23476	2.00000	1.8034
	34 Hexachlorocyclopentadiene	237	8.192	8.191	(0.889)	2084	2.00000	2.7209
	35 2,4,6-Trichlorophenol	196	8.295	8.305	(0.900)	7031	2.00000	1.6015
	36 2,4,5-Trichlorophenol	196	8.347	8.356	(0.906)	7060	2.00000	1.5754
$	37 2-Fluorobiphenyl	172	8.378	8.398	(0.909)	27361	2.00000	1.9802
	38 2-Chloronaphthalene	162	8.512	8.522	(0.924)	22435	2.00000	1.9384
	39 2-Nitroaniline	65	8.678	8.708	(0.942)	7683	2.00000	1.8238
	40 Dimethylphthalate	163	8.926	8.957	(0.969)	26707	2.00000	1.9247
	41 2,6-Dinitrotoluene	165	9.020	9.050	(0.979)	5353	2.00000	1.5313(H)
	42 Acenaphthylene	152	9.030	9.039	(0.980)	36210	2.00000	1.9526
	43 3-Nitroaniline	138	9.195	9.226	(0.998)	5031	2.00000	1.5256
*	44 Acenaphthene-d10	164	9.216	9.226	(1.000)	406423	40.0000	
	45 Acenaphthene	154	9.247	9.278	(1.003)	23281	2.00000	1.9925
	47 4-Nitrophenol	109	9.402	9.443	(1.020)	1858	2.00000	1.1054(M)
	48 Dibenzofuran	168	9.444	9.464	(1.025)	34856	2.00000	2.0504
	49 Diethylphthalate	149	9.785	9.816	(1.062)	25350	2.00000	1.9591
	50 4-Chlorophenyl-phenylether	204	9.858	9.878	(1.070)	14377	2.00000	2.0005
	51 Fluorene	166	9.868	9.888	(1.071)	28009	2.00000	2.0770
	52 2,4-Dinitrotoluene	165	9.506	9.536	(1.031)	7080	2.00000	1.6374
	53 4-Nitroaniline	138	9.951	10.012	(1.080)	3892	2.00000	1.4769
	55 N-Nitrosodiphenylamine	169	10.013	10.054	(0.908)	18992	2.00000	1.9157
	56 Azobenzene	77	10.055	10.074	(0.912)	33055	2.00000	2.0566
$	57 2,4,6-Tribromophenol	330	10.199	10.219	(1.107)	3050	2.00000	5.7349
	58 4-Bromophenyl-phenylether	248	10.458	10.468	(0.948)	8276	2.00000	1.6893
	59 Hexachlorobenzene	284	10.645	10.664	(0.965)	8695	2.00000	1.6347
*	61 Phenanthrene-d10	188	11.027	11.037	(1.000)	757273	40.0000	
	62 Phenanthrene	178	11.048	11.068	(1.002)	40764	2.00000	1.9475
	63 Anthracene	178	11.100	11.130	(1.007)	40915	2.00000	1.9110
	64 Carbazole	167	11.307	11.327	(1.025)	33851	2.00000	2.2506
	65 Di-n-butylphthalate	149	11.773	11.782	(1.068)	41514	2.00000	1.7663
	66 Fluoranthene	202	12.518	12.538	(1.135)	45035	2.00000	1.8693
	67 Benzidine	184	12.683	12.693	(0.886)	5859	2.00000	7.8538
	68 Pyrene	202	12.797	12.817	(0.894)	46716	2.00000	1.8256
$	69 Terphenyl-d14	244	12.984	13.004	(0.907)	34490	2.00000	1.7341
	70 Butylbenzylphthalate	149	13.605	13.625	(0.951)	17288	2.00000	1.5805
	71 bis(2-Ethylhexyl)phthalate	149	14.329	14.339	(1.001)	25098	2.00000	1.6662
	72 3,3'-Dichlorobenzidine	252	14.257	14.297	(0.996)	13078	2.00000	1.7392
	73 Benzo(a)anthracene	228	14.277	14.308	(0.998)	47373	2.00000	1.9371
*	74 Chrysene-d12	240	14.308	14.328	(1.000)	745062	40.0000	
	75 Chrysene	228	14.340	14.370	(1.002)	46417	2.00000	1.8855
	76 Di-n-octylphthalate	149	15.219	15.250	(0.908)	34901	2.00000	1.2548
	77 Benzo(b)fluoranthene	252	15.975	16.056	(0.953)	44969	2.00000	3.7571(AH)
	78 Benzo(k)fluoranthene	252	16.016	16.088	(0.956)	44959	2.00000	1.9169(A)

Low RT not well

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU03.D
Report Date: 31-Aug-2004 09:13

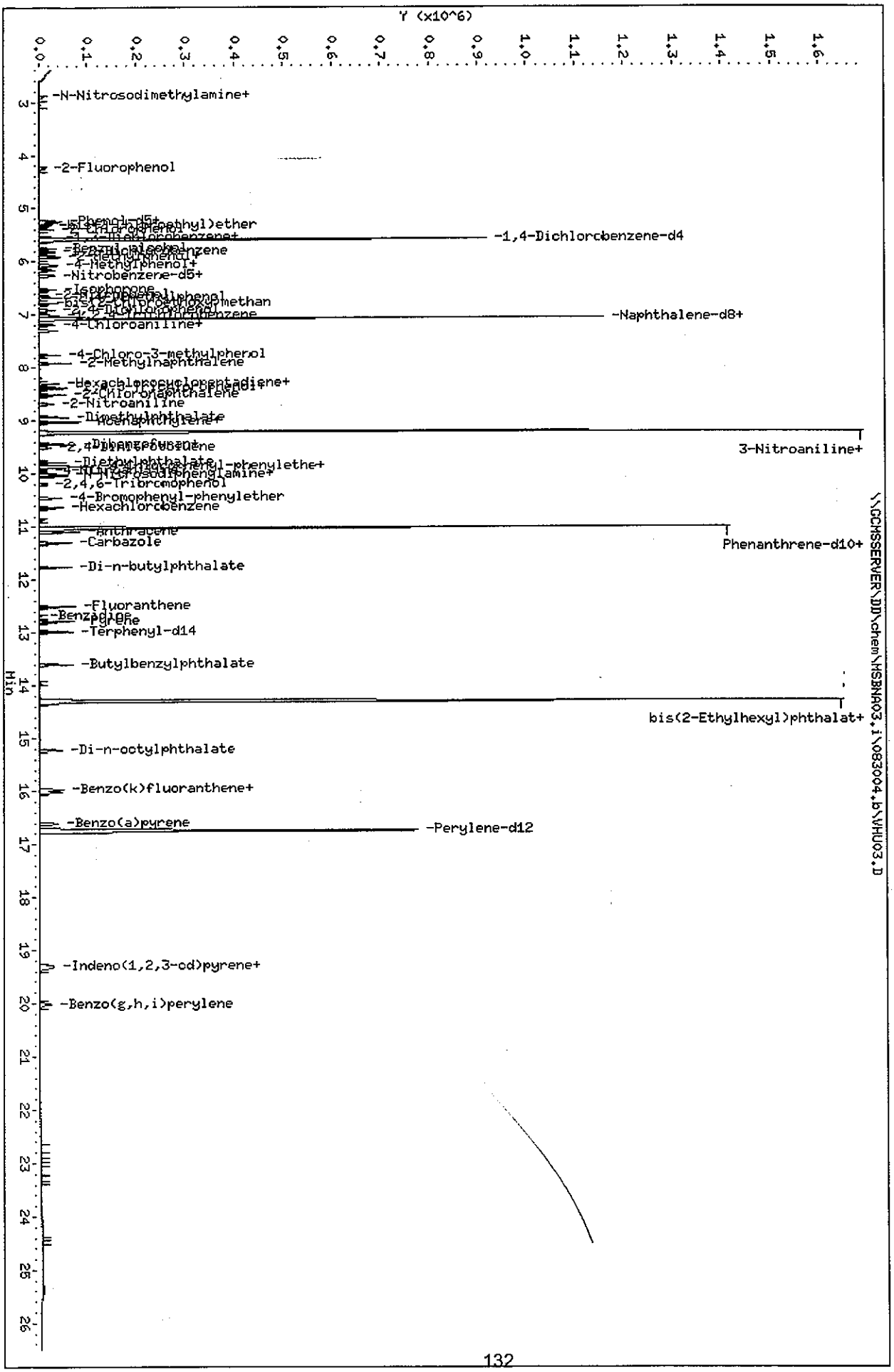
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
79 Benzo(a)pyrene	252	16.606	16.678	(0.991)	35461	2.00000	1.5705
* 80 Perylene-d12	264	16.761	16.782	(1.000)	664488	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.297	19.452	(1.151)	40740	2.00000	1.4974
82 Dibenz(a,h)anthracene	278	19.339	19.483	(1.154)	32873	2.00000	3.2998
83 Benzo(g,h,i)perylene	276	20.011	20.156	(1.194)	34669	2.00000	1.6468

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU03.D
Date : 30-AUG-2004 15:19
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1376
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU04.D
Report Date: 31-Aug-2004 09:13

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 15:57 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1377
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:13 target Quant Type: ISTD
Cal Date : 30-AUG-2004 15:57 Cal File: VHU04.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	2.899	2.912	(0.520)	42475	10.0000	10.2872(M)
	2 Pyridine	79	2.858	2.860	(0.512)	75224	10.0000	9.6484
$	3 2-Fluorophenol	112	4.245	4.258	(0.761)	65186	10.0000	9.8373
$	4 Phenol-d5	99	5.228	5.262	(0.937)	91124	10.0000	9.8450
	5 Phenol	94	5.239	5.272	(0.939)	105308	10.0000	10.0961
	6 Aniline	66	5.270	5.282	(0.944)	44426	10.0000	12.2194
	7 bis(2-Chloroethyl)ether	63	5.332	5.344	(0.955)	58765	10.0000	10.1712
	8 2-Chlorophenol	128	5.394	5.407	(0.967)	67856	10.0000	9.7299
	9 1,3-Dichlorobenzene	146	5.539	5.551	(0.993)	80467	10.0000	9.7618
*	10 1,4-Dichlorobenzene-d4	152	5.580	5.593	(1.000)	211795	40.0000	
	11 1,4-Dichlorobenzene	146	5.601	5.614	(1.004)	85341	10.0000	9.9249
	12 Benzyl alcohol	108	5.766	5.790	(1.033)	48485	10.0000	9.4539
	13 2-Methylphenol	107	5.901	5.914	(1.057)	58805	10.0000	10.0242
	14 1,2-Dichlorobenzene	146	5.818	5.821	(1.043)	77817	10.0000	9.8834
	15 bis(2-Chloroisopropyl) ether	45	5.932	5.945	(1.063)	115635	10.0000	11.2161
	16 4-Methylphenol	107	6.067	6.100	(1.087)	88329	10.0000	9.8596
	17 N-Nitroso-di-n-propylamine	70	6.087	6.141	(1.091)	50038	10.0000	10.3534
	18 Hexachloroethane	117	6.160	6.162	(1.104)	31861	10.0000	10.2866
$	19 Nitrobenzene-d5	82	6.253	6.276	(0.884)	93826	10.0000	9.7674
	20 Nitrobenzene	77	6.274	6.297	(0.887)	96024	10.0000	10.1055

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU04.D
Report Date: 31-Aug-2004 09:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.532	6.566	(0.924)	158502	10.0000	9.5629
	22 2,4-Dimethylphenol	122	6.677	6.700	(0.944)	50790	10.0000	9.2681
	23 2-Nitrophenol	139	6.646	6.659	(0.940)	37473	10.0000	8.4170
	24 bis(2-Chloroethoxy)methane	93	6.791	6.814	(0.960)	92455	10.0000	9.2991
	25 Benzoic acid	122	6.801	6.938	(0.962)	18693	10.0000	11.5751
	26 2,4-Dichlorophenol	162	6.915	6.938	(0.978)	62089	10.0000	8.9718
	27 1,2,4-Trichlorobenzene	180	7.019	7.032	(0.993)	73422	10.0000	9.1685
*	28 Naphthalene-d8	136	7.071	7.083	(1.000)	780195	40.0000	
	29 Naphthalene	128	7.091	7.104	(1.003)	213728	10.0000	9.6653
	30 4-Chloroaniline	127	7.184	7.197	(1.016)	75619	10.0000	8.7230
	31 Hexachlorobutadiene	225	7.298	7.301	(1.032)	46814	10.0000	9.7943
	32 4-Chloro-3-methylphenol	107	7.754	7.777	(1.097)	66442	10.0000	9.1534
	33 2-Methylnaphthalene	142	7.919	7.932	(1.120)	147523	10.0000	9.6080
	34 Hexachlorocyclopentadiene	237	8.188	8.191	(0.889)	27730	10.0000	8.8827
	35 2,4,6-Trichlorophenol	196	8.292	8.305	(0.900)	47828	10.0000	9.2365
	36 2,4,5-Trichlorophenol	196	8.344	8.356	(0.906)	48838	10.0000	9.2395
$	37 2-Fluorobiphenyl	172	8.385	8.398	(0.910)	163898	10.0000	10.0572
	38 2-Chloronaphthalene	162	8.509	8.522	(0.924)	136187	10.0000	9.9763
	39 2-Nitroaniline	65	8.685	8.708	(0.943)	50320	10.0000	10.1273
	40 Dimethylphthalate	163	8.923	8.957	(0.969)	159886	10.0000	9.7695
	41 2,6-Dinitrotoluene	165	9.027	9.050	(0.980)	39722	10.0000	9.6344
	42 Acenaphthylene	152	9.027	9.039	(0.980)	226071	10.0000	10.3360
	43 3-Nitroaniline	138	9.192	9.226	(0.998)	32414	10.0000	8.3339
*	44 Acenaphthene-d10	164	9.213	9.226	(1.000)	479371	40.0000	
	45 Acenaphthene	154	9.254	9.278	(1.004)	139786	10.0000	10.1432
	46 2,4-Dinitrophenol	184	9.327	9.350	(1.012)	12492	10.0000	10.1989
	47 4-Nitrophenol	109	9.399	9.443	(1.020)	18638	10.0000	9.4016
	48 Dibenzofuran	168	9.441	9.464	(1.025)	211219	10.0000	10.5343
	49 Diethylphthalate	149	9.782	9.816	(1.062)	153833	10.0000	10.0798
	50 4-Chlorophenyl-phenylether	204	9.855	9.878	(1.070)	93223	10.0000	10.9981
	51 Fluorene	166	9.865	9.888	(1.071)	175762	10.0000	11.0506
	52 2,4-Dinitrotoluene	165	9.503	9.536	(1.031)	48406	10.0000	9.4917
	53 4-Nitroaniline	138	9.948	10.012	(1.080)	26802	10.0000	8.6230
	54 4,6-Dinitro-2-methylphenol	198	10.000	10.054	(0.907)	25102	10.0000	7.7503
	55 N-Nitrosodiphenylamine	169	10.020	10.054	(0.909)	113325	10.0000	10.0530
	56 Azobenzene	77	10.051	10.074	(0.912)	192693	10.0000	10.5434
$	57 2,4,6-Tribromophenol	330	10.196	10.219	(1.107)	22862	10.0000	11.2132
	58 4-Bromophenyl-phenylether	248	10.455	10.468	(0.948)	52254	10.0000	9.3801
	59 Hexachlorobenzene	284	10.652	10.664	(0.966)	56007	10.0000	9.2603
	60 Pentachlorophenol	266	10.869	10.892	(0.986)	17497	10.0000	10.9927
*	61 Phenanthrene-d10	188	11.024	11.037	(1.000)	861099	40.0000	
	62 Phenanthrene	178	11.045	11.068	(1.002)	242004	10.0000	10.1681
	63 Anthracene	178	11.097	11.130	(1.007)	240192	10.0000	9.8660
	64 Carbazole	167	11.304	11.327	(1.025)	145630	10.0000	8.5149
	65 Di-n-butylphthalate	149	11.769	11.782	(1.068)	270305	10.0000	10.1145
	66 Fluoranthene	202	12.515	12.538	(1.135)	283252	10.0000	10.3399
	67 Benzidine	184	12.691	12.693	(0.887)	870	10.0000	0.9772 (M)
	68 Pyrene	202	12.794	12.817	(0.894)	293477	10.0000	9.6106
$	69 Terphenyl-d14	244	12.980	13.004	(0.907)	217658	10.0000	9.1705
	70 Butylbenzylphthalate	149	13.612	13.625	(0.952)	117286	10.0000	8.9855
	71 bis(2-Ethylhexyl)phthalate	149	14.326	14.339	(1.001)	179577	10.0000	9.9901
	72 3,3'-Dichlorobenzidine	252	14.264	14.297	(0.997)	78043	10.0000	8.6973
	73 Benzo(a)anthracene	228	14.274	14.308	(0.998)	289948	10.0000	9.9349
*	74 Chrysene-d12	240	14.305	14.328	(1.000)	889139	40.0000	

8/31/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU04.D
Report Date: 31-Aug-2004 09:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	14.336	14.370	(1.002)	277248	10.0000	9.4373
76 Di-n-octylphthalate	149	15.216	15.250	(0.908)	272576	10.0000	8.5281
77 Benzo(b)fluoranthene	252	15.982	16.056	(0.954)	304823	10.0000	10.5011(AH)
78 Benzo(k)fluoranthene	252	16.023	16.088	(0.956)	276381	10.0000	10.2542(A)
79 Benzo(a)pyrene	252	16.613	16.678	(0.991)	233179	10.0000	8.9865
* 80 Perylene-d12	264	16.758	16.782	(1.000)	763639	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.304	19.452	(1.152)	279510	10.0000	8.9397
82 Dibenz(a,h)anthracene	278	19.346	19.483	(1.154)	227352	10.0000	9.9587
83 Benzo(g,h,i)perylene	276	20.029	20.156	(1.195)	232916	10.0000	9.6277

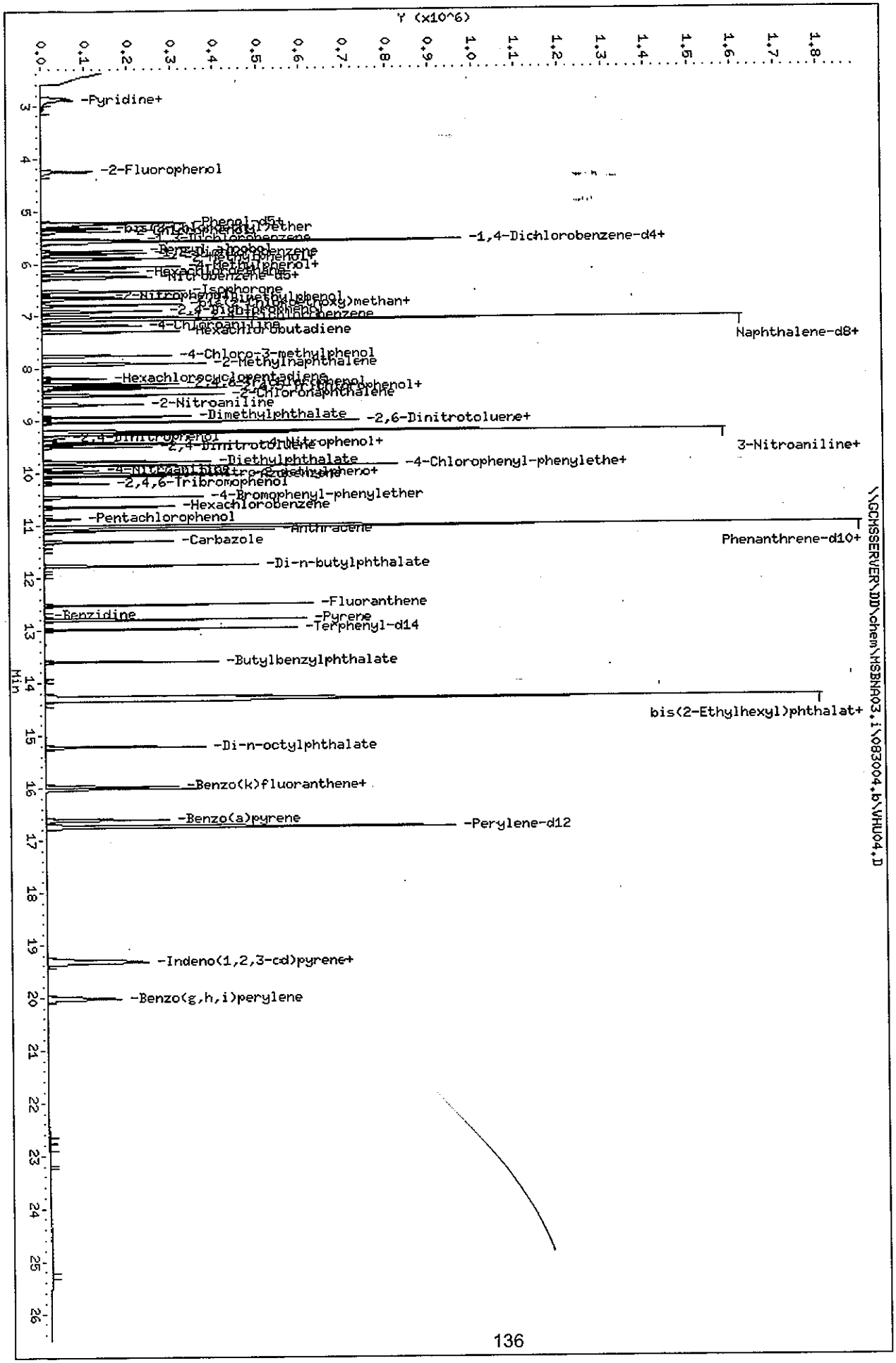
8/13/02

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBN003.i\083004.b\VHU04.D
Date : 30-AUG-2004 15:57
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04MS1377
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBN003.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU05.D
Report Date: 31-Aug-2004 09:14

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 16:34 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1378
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:14 target Quant Type: ISTD
Cal Date : 30-AUG-2004 16:34 Cal File: VHU05.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	2.903	2.912	(0.520)	86258	20.0000	20.3561
	2 Pyridine	79	2.852	2.860	(0.511)	159015	20.0000	19.8733
$	3 2-Fluorophenol	112	4.249	4.258	(0.761)	133437	20.0000	19.6214
$	4 Phenol-d5	99	5.232	5.262	(0.937)	189047	20.0000	19.9015
	5 Phenol	94	5.242	5.272	(0.939)	219632	20.0000	20.5173
	6 Aniline	66	5.273	5.282	(0.944)	94465	20.0000	25.3173
	7 bis(2-Chloroethyl)ether	63	5.325	5.344	(0.954)	118422	20.0000	19.9719
	8 2-Chlorophenol	128	5.387	5.407	(0.965)	139454	20.0000	19.4844
	9 1,3-Dichlorobenzene	146	5.543	5.551	(0.993)	163738	20.0000	19.3550
*	10 1,4-Dichlorobenzene-d4	152	5.584	5.593	(1.000)	217362	40.0000	
	11 1,4-Dichlorobenzene	146	5.605	5.614	(1.004)	177576	20.0000	20.1226
	12 Benzyl alcohol	108	5.770	5.790	(1.033)	103241	20.0000	19.6150
	13 2-Methylphenol	107	5.905	5.914	(1.057)	122218	20.0000	20.3003
	14 1,2-Dichlorobenzene	146	5.812	5.821	(1.041)	156977	20.0000	19.4268
	15 bis(2-Chloroisopropyl) ether	45	5.925	5.945	(1.061)	225354	20.0000	21.2986
	16 4-Methylphenol	107	6.070	6.100	(1.087)	183623	20.0000	19.9717
	17 N-Nitroso-di-n-propylamine	70	6.101	6.141	(1.093)	103547	20.0000	20.8763
	18 Hexachloroethane	117	6.164	6.162	(1.104)	64459	20.0000	20.2782
$	19 Nitrobenzene-d5	82	6.257	6.276	(0.884)	188673	20.0000	19.3106
	20 Nitrobenzene	77	6.277	6.297	(0.887)	192551	20.0000	19.9230

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU05.D
Report Date: 31-Aug-2004 09:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.536	6.566	(0.924)	320470	20.0000	19.0096
	22 2,4-Dimethylphenol	122	6.681	6.700	(0.944)	108005	20.0000	19.3770
	23 2-Nitrophenol	139	6.650	6.659	(0.940)	79645	20.0000	17.5884
	24 bis(2-Chloroethoxy)methane	93	6.795	6.814	(0.961)	189298	20.0000	18.7192
	25 Benzoic acid	122	6.836	6.938	(0.966)	50594	20.0000	19.3183
	26 2,4-Dichlorophenol	162	6.919	6.938	(0.978)	130236	20.0000	18.5023
	27 1,2,4-Trichlorobenzene	180	7.023	7.032	(0.993)	151157	20.0000	18.5580
*	28 Naphthalene-d8	136	7.074	7.083	(1.000)	793551	40.0000	
	29 Naphthalene	128	7.095	7.104	(1.003)	440811	20.0000	19.5991
	30 4-Chloroaniline	127	7.188	7.197	(1.016)	160470	20.0000	18.1994
	31 Hexachlorobutadiene	225	7.302	7.301	(1.032)	94792	20.0000	19.4984
	32 4-Chloro-3-methylphenol	107	7.757	7.777	(1.097)	138031	20.0000	18.6959
	33 2-Methylnaphthalene	142	7.913	7.932	(1.118)	301846	20.0000	19.3280
	34 Hexachlorocyclopentadiene	237	8.192	8.191	(0.889)	65077	20.0000	17.6923
	35 2,4,6-Trichlorophenol	196	8.296	8.305	(0.900)	100113	20.0000	18.9726
	36 2,4,5-Trichlorophenol	196	8.347	8.356	(0.906)	105439	20.0000	19.5753
$	37 2-Fluorobiphenyl	172	8.389	8.398	(0.910)	347532	20.0000	20.9272
	38 2-Chloronaphthalene	162	8.513	8.522	(0.924)	284068	20.0000	20.4206
	39 2-Nitroaniline	65	8.689	8.708	(0.943)	106603	20.0000	21.0542
	40 Dimethylphthalate	163	8.927	8.957	(0.969)	328441	20.0000	19.6940
	41 2,6-Dinitrotoluene	165	9.031	9.050	(0.980)	85242	20.0000	20.2890
	42 Acenaphthylene	152	9.031	9.039	(0.980)	474598	20.0000	21.2935
	43 3-Nitroaniline	138	9.196	9.226	(0.998)	69213	20.0000	17.4630
*	44 Acenaphthene-d10	164	9.217	9.226	(1.000)	488494	40.0000	
	45 Acenaphthene	154	9.258	9.278	(1.004)	288359	20.0000	20.5332
	46 2,4-Dinitrophenol	184	9.331	9.350	(1.012)	36286	20.0000	19.6006
	47 4-Nitrophenol	109	9.403	9.443	(1.020)	39601	20.0000	19.6030
	48 Dibenzofuran	168	9.445	9.464	(1.025)	425078	20.0000	20.8044
	49 Diethylphthalate	149	9.786	9.816	(1.062)	314132	20.0000	20.1989
	50 4-Chlorophenyl-phenylether	204	9.859	9.878	(1.070)	191520	20.0000	22.1728
	51 Fluorene	166	9.869	9.888	(1.071)	360515	20.0000	22.2432
	52 2,4-Dinitrotoluene	165	9.507	9.536	(1.031)	103215	20.0000	19.8610
	53 4-Nitroaniline	138	9.962	10.012	(1.081)	57553	20.0000	18.1708
	54 4,6-Dinitro-2-methylphenol	198	10.003	10.054	(0.907)	62457	20.0000	18.5305
	55 N-Nitrosodiphenylamine	169	10.024	10.054	(0.909)	229446	20.0000	19.5590
	56 Azobenzene	77	10.055	10.074	(0.912)	391499	20.0000	20.5847
$	57 2,4,6-Tribromophenol	330	10.200	10.219	(1.107)	51069	20.0000	18.9631
	58 4-Bromophenyl-phenylether	248	10.459	10.468	(0.948)	110005	20.0000	18.9757
	59 Hexachlorobenzene	284	10.645	10.664	(0.965)	117490	20.0000	18.6673
	60 Pentachlorophenol	266	10.873	10.892	(0.986)	52231	20.0000	19.5237
*	61 Phenanthrene-d10	188	11.028	11.037	(1.000)	896099	40.0000	
	62 Phenanthrene	178	11.049	11.068	(1.002)	494995	20.0000	19.9855
	63 Anthracene	178	11.101	11.130	(1.007)	494827	20.0000	19.5315
	64 Carbazole	167	11.308	11.327	(1.025)	312523	20.0000	17.5594
	65 Di-n-butylphthalate	149	11.773	11.782	(1.068)	566283	20.0000	20.3621
	66 Fluoranthene	202	12.519	12.538	(1.135)	587011	20.0000	20.5915
	67 Benzidine	184	12.684	12.693	(0.886)	17779	20.0000	18.7271
	68 Pyrene	202	12.798	12.817	(0.894)	607237	20.0000	18.6475
$	69 Terphenyl-d14	244	12.984	13.004	(0.907)	465076	20.0000	18.3749
	70 Butylbenzylphthalate	149	13.605	13.625	(0.951)	258279	20.0000	18.5554
	71 bis(2-Ethylhexyl)phthalate	149	14.330	14.339	(1.001)	388586	20.0000	20.2718
	72 3,3'-Dichlorobenzidine	252	14.268	14.297	(0.997)	175213	20.0000	18.3107
	73 Benzo(a)anthracene	228	14.278	14.308	(0.998)	613880	20.0000	19.7247
*	74 Chrysene-d12	240	14.309	14.328	(1.000)	948168	40.0000	

LOW 08/31/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU05.D
Report Date: 31-Aug-2004 09:14

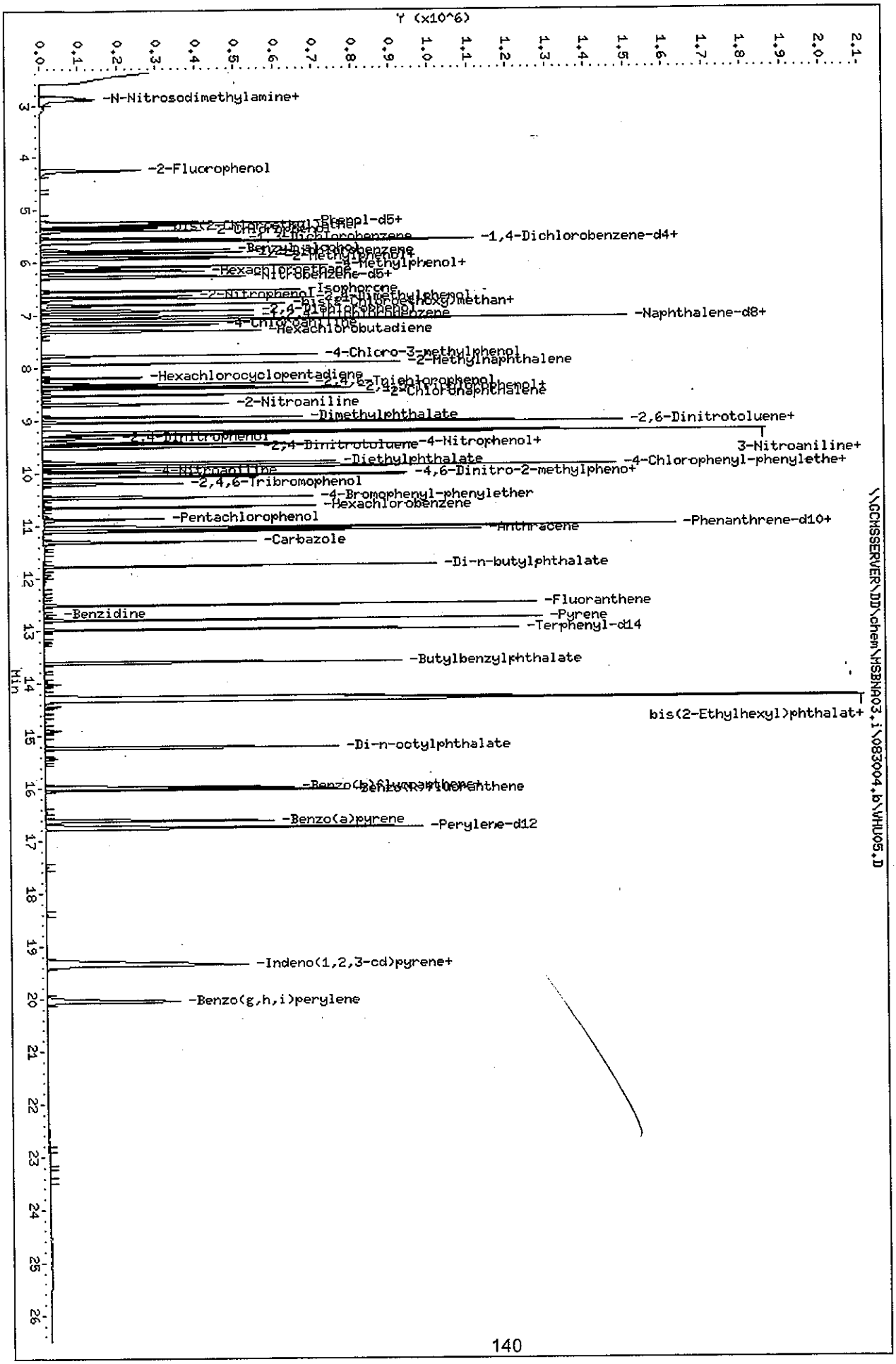
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	14.340	14.370	(1.002)	583974	20.0000	18.6405
76 Di-n-octylphthalate	149	15.230	15.250	(0.909)	599626	20.0000	18.1912
77 Benzo(b)fluoranthene	252	15.986	16.056	(0.954)	575444	20.0000	17.0698(AH)
78 Benzo(k)fluoranthene	252	16.038	16.088	(0.957)	627130	20.0000	22.5616(A)
79 Benzo(a)pyrene	252	16.628	16.678	(0.992)	507664	20.0000	18.9711
* 80 Perylene-d12	264	16.762	16.782	(1.000)	787538	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.319	19.452	(1.153)	600751	20.0000	18.6310
82 Dibenz(a,h)anthracene	278	19.370	19.483	(1.156)	498931	20.0000	18.8976
83 Benzo(g,h,i)perylene	276	20.053	20.156	(1.196)	496723	20.0000	19.9092

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU05.D
Date : 30-AUG-2004 16:34
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04MS1378
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU06.D
Report Date: 31-Aug-2004 09:14

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 17:11 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1379
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:14 target Quant Type: ISTD
Cal Date : 30-AUG-2004 17:11 Cal File: VHU06.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	2.910	2.912	(0.521)	225665	50.0000	49.9097
2 Pyridine	79	2.858	2.860	(0.511)	426171	50.0000	49.9161
$ 3 2-Fluorophenol	112	4.255	4.258	(0.761)	358251	50.0000	49.3703
$ 4 Phenol-d5	99	5.249	5.262	(0.939)	508885	50.0000	50.2065
5 Phenol	94	5.259	5.272	(0.941)	578543	50.0000	50.6508
6 Aniline	66	5.280	5.282	(0.944)	225150	50.0000	56.5515
7 bis(2-Chloroethyl)ether	63	5.342	5.344	(0.956)	307784	50.0000	48.6473
8 2-Chlorophenol	128	5.394	5.407	(0.965)	376933	50.0000	49.3566
9 1,3-Dichlorobenzene	146	5.549	5.551	(0.993)	444717	50.0000	49.2667
* 10 1,4-Dichlorobenzene-d4	152	5.590	5.593	(1.000)	231931	40.0000	
11 1,4-Dichlorobenzene	146	5.611	5.614	(1.004)	483280	50.0000	51.3245
12 Benzyl alcohol	108	5.777	5.790	(1.033)	278956	50.0000	49.6703
13 2-Methylphenol	107	5.911	5.914	(1.057)	326899	50.0000	50.8869
14 1,2-Dichlorobenzene	146	5.818	5.821	(1.041)	429794	50.0000	49.8485
15 bis(2-Chloroisopropyl) ether	45	5.932	5.945	(1.061)	574315	50.0000	50.8699
16 4-Methylphenol	107	6.087	6.100	(1.089)	496436	50.0000	50.6031
17 N-Nitroso-di-n-propylamine	70	6.118	6.141	(1.094)	275480	50.0000	52.0513
18 Hexachloroethane	117	6.160	6.162	(1.102)	175348	50.0000	51.6979
$ 19 Nitrobenzene-d5	82	6.263	6.276	(0.886)	501048	50.0000	49.9869
20 Nitrobenzene	77	6.284	6.297	(0.889)	497233	50.0000	50.1486

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU06.D
Report Date: 31-Aug-2004 09:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.553	6.566	(0.927)	865015	50.0000	50.0149
	22 2,4-Dimethylphenol	122	6.687	6.700	(0.946)	273407	50.0000	47.8127
	23 2-Nitrophenol	139	6.656	6.659	(0.941)	227181	50.0000	48.9024
	24 bis(2-Chloroethoxy)methane	93	6.801	6.814	(0.962)	511791	50.0000	49.3316
	25 Benzoic acid	122	6.905	6.938	(0.977)	173882	50.0000	47.5932
	26 2,4-Dichlorophenol	162	6.926	6.938	(0.980)	356586	50.0000	49.3800
	27 1,2,4-Trichlorobenzene	180	7.019	7.032	(0.993)	420404	50.0000	50.3108
*	28 Naphthalene-d8	136	7.070	7.083	(1.000)	814113	40.0000	
	29 Naphthalene	128	7.101	7.104	(1.004)	1196341	50.0000	51.8477
	30 4-Chloroaniline	127	7.195	7.197	(1.018)	462838	50.0000	51.1662
	31 Hexachlorobutadiene	225	7.298	7.301	(1.032)	262892	50.0000	52.7102
	32 4-Chloro-3-methylphenol	107	7.764	7.777	(1.098)	378734	50.0000	50.0028
	33 2-Methylnaphthalene	142	7.919	7.932	(1.120)	841991	50.0000	52.5532
	34 Hexachlorocyclopentadiene	237	8.188	8.191	(0.888)	218729	50.0000	50.6980
	35 2,4,6-Trichlorophenol	196	8.302	8.305	(0.900)	289256	50.0000	50.8815
	36 2,4,5-Trichlorophenol	196	8.354	8.356	(0.906)	305400	50.0000	52.6279
$	37 2-Fluorobiphenyl	172	8.395	8.398	(0.910)	952372	50.0000	53.2308
	38 2-Chloronaphthalene	162	8.519	8.522	(0.924)	776579	50.0000	51.8171
	39 2-Nitroaniline	65	8.695	8.708	(0.943)	274613	50.0000	50.3419
	40 Dimethylphthalate	163	8.944	8.957	(0.970)	903705	50.0000	50.2972
	41 2,6-Dinitrotoluene	165	9.037	9.050	(0.980)	234809	50.0000	51.8755
	42 Acenaphthylene	152	9.037	9.039	(0.980)	1272008	50.0000	52.9726
	43 3-Nitroaniline	138	9.213	9.226	(0.999)	211173	50.0000	49.4549
*	44 Acenaphthene-d10	164	9.223	9.226	(1.000)	526283	40.0000	
	45 Acenaphthene	154	9.265	9.278	(1.004)	753526	50.0000	49.8038
	46 2,4-Dinitrophenol	184	9.337	9.350	(1.012)	125734	50.0000	50.5278
	47 4-Nitrophenol	109	9.420	9.443	(1.021)	109130	50.0000	50.1420
	48 Dibenzofuran	168	9.451	9.464	(1.025)	1217986	50.0000	55.3312
	49 Diethylphthalate	149	9.803	9.816	(1.063)	845480	50.0000	50.4615
	50 4-Chlorophenyl-phenylether	204	9.865	9.878	(1.070)	524435	50.0000	56.3558
	51 Fluorene	166	9.875	9.888	(1.071)	994589	50.0000	56.9585
	52 2,4-Dinitrotoluene	165	9.523	9.536	(1.033)	285297	50.0000	50.9561
	53 4-Nitroaniline	138	9.989	10.012	(1.083)	159690	50.0000	46.7978
	54 4,6-Dinitro-2-methylphenol	198	10.031	10.054	(0.910)	200686	50.0000	55.7303
	55 N-Nitrosodiphenylamine	169	10.041	10.054	(0.911)	640437	50.0000	51.0989
	56 Azobenzene	77	10.062	10.074	(0.913)	1114281	50.0000	54.8375
$	57 2,4,6-Tribromophenol	330	10.207	10.219	(1.107)	164447	50.0000	47.3070
	58 4-Bromophenyl-phenylether	248	10.465	10.468	(0.949)	324575	50.0000	52.4044
	59 Hexachlorobenzene	284	10.662	10.664	(0.967)	369375	50.0000	54.9308
	60 Pentachlorophenol	266	10.879	10.892	(0.987)	179242	50.0000	47.6782
*	61 Phenanthrene-d10	188	11.024	11.037	(1.000)	957389	40.0000	
	62 Phenanthrene	178	11.055	11.068	(1.003)	1399262	50.0000	52.8788
	63 Anthracene	178	11.117	11.130	(1.008)	1396863	50.0000	51.6064
	64 Carbazole	167	11.314	11.327	(1.026)	841216	50.0000	44.2388
	65 Di-n-butylphthalate	149	11.780	11.782	(1.069)	1546285	50.0000	52.0410
	66 Fluoranthene	202	12.525	12.538	(1.136)	1638407	50.0000	53.7938
	67 Benzidine	184	12.691	12.693	(0.886)	23306	50.0000	23.2434
	68 Pyrene	202	12.804	12.817	(0.894)	1653835	50.0000	48.0867
$	69 Terphenyl-d14	244	12.991	13.004	(0.907)	1249432	50.0000	46.7395
	70 Butylbenzylphthalate	149	13.622	13.625	(0.951)	730728	50.0000	49.7056
	71 bis(2-Ethylhexyl)phthalate	149	14.336	14.339	(1.001)	1013213	50.0000	50.0466
	72 3,3'-Dichlorobenzidine	252	14.284	14.297	(0.997)	563171	50.0000	55.7246
	73 Benzo(a)anthracene	228	14.295	14.308	(0.998)	1688511	50.0000	51.3690
*	74 Chrysene-d12	240	14.326	14.328	(1.000)	1001421	40.0000	

RC 8/31/04

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU06.D
Report Date: 31-Aug-2004 09:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	14.357	14.370	(1.002)	1591555	50.0000	48.1010
76 Di-n-octylphthalate	149	15.237	15.250	(0.909)	1688190	50.0000	51.1167
77 Benzo(b)fluoranthene	252	16.023	16.056	(0.956)	2027430	50.0000	50.3130(A)
78 Benzo(k)fluoranthene	252	16.065	16.088	(0.958)	1499070	50.0000	53.8262(A)
79 Benzo(a)pyrene	252	16.655	16.678	(0.993)	1397950	50.0000	52.1397
* 80 Perylene-d12	264	16.769	16.782	(1.000)	789064	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.387	19.452	(1.156)	1690158	50.0000	52.3153
82 Dibenz(a,h)anthracene	278	19.428	19.483	(1.159)	1418987	50.0000	49.2919
83 Benzo(g,h,i)perylene	276	20.112	20.156	(1.199)	1323696	50.0000	52.9526

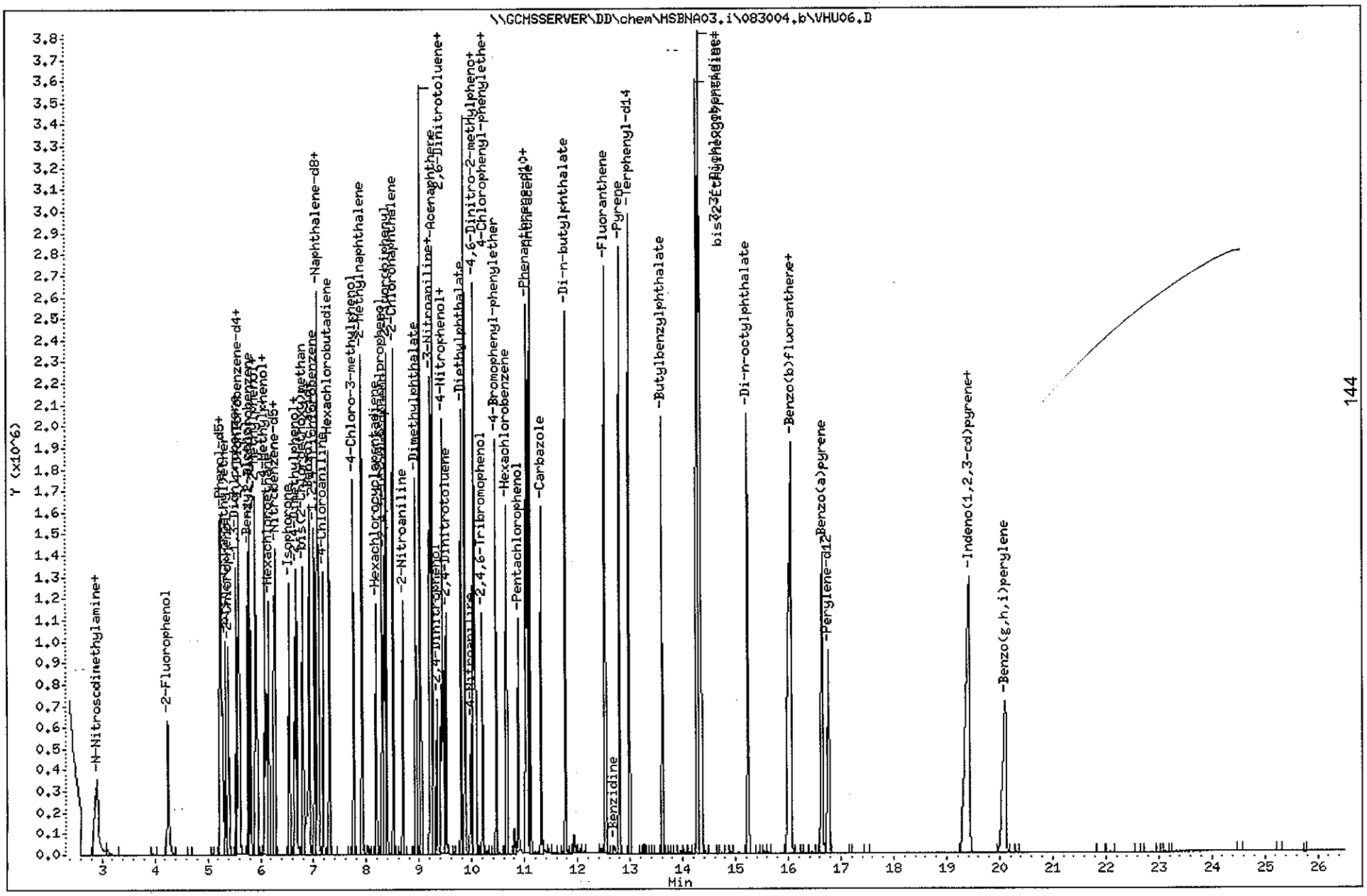
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU06.D
Date : 30-AUG-2004 17:11
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1379
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i

Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU07.D
Report Date: 31-Aug-2004 09:14

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 17:50 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1380
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:14 target Quant Type: ISTD
Cal Date : 30-AUG-2004 17:50 Cal File: VHU07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	2.912	2.912	(0.521)	368790	80.0000	79.5787
	2 Pyridine	79	2.860	2.860	(0.511)	705429	80.0000	80.6134
$	3 2-Fluorophenol	112	4.258	4.258	(0.761)	595299	80.0000	80.0406
$	4 Phenol-d5	99	5.262	5.262	(0.941)	842198	80.0000	81.0684
	5 Phenol	94	5.272	5.272	(0.943)	942858	80.0000	80.5368
	6 Aniline	66	5.282	5.282	(0.944)	312927	80.0000	76.6853 (M)
	7 bis(2-Chloroethyl)ether	63	5.344	5.344	(0.956)	515870	80.0000	79.5518
	8 2-Chlorophenol	128	5.407	5.407	(0.967)	631131	80.0000	80.6301
	9 1,3-Dichlorobenzene	146	5.551	5.551	(0.993)	747366	80.0000	80.7792
*	10 1,4-Dichlorobenzene-d4	152	5.593	5.593	(1.000)	237718	40.0000	
	11 1,4-Dichlorobenzene	146	5.614	5.614	(1.004)	799517	80.0000	82.8419
	12 Benzyl alcohol	108	5.790	5.790	(1.035)	466667	80.0000	81.0709
	13 2-Methylphenol	107	5.914	5.914	(1.057)	546385	80.0000	82.9828
	14 1,2-Dichlorobenzene	146	5.821	5.821	(1.041)	714792	80.0000	80.8851
	15 bis(2-Chloroisopropyl) ether	45	5.945	5.945	(1.063)	901051	80.0000	77.8677
	16 4-Methylphenol	107	6.100	6.100	(1.091)	801591	80.0000	79.7193
	17 N-Nitroso-di-n-propylamine	70	6.141	6.141	(1.098)	449105	80.0000	82.7915
	18 Hexachloroethane	117	6.162	6.162	(1.102)	288593	80.0000	83.0146
$	19 Nitrobenzene-d5	82	6.276	6.276	(0.886)	809885	80.0000	80.4968
	20 Nitrobenzene	77	6.297	6.297	(0.889)	804712	80.0000	80.8571

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU07.D
Report Date: 31-Aug-2004 09:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	6.566	6.566	(0.927)	1392923	80.0000	80.2384
22 2,4-Dimethylphenol	122	6.700	6.700	(0.946)	429432	80.0000	74.8182
23 2-Nitrophenol	139	6.659	6.659	(0.940)	368413	80.0000	79.0081
24 bis(2-Chloroethoxy)methane	93	6.814	6.814	(0.962)	853293	80.0000	81.9425
25 Benzoic acid	122	6.938	6.938	(0.980)	330300	80.0000	81.5646(M)
26 2,4-Dichlorophenol	162	6.938	6.938	(0.980)	615161	80.0000	84.8700
27 1,2,4-Trichlorobenzene	180	7.032	7.032	(0.993)	696668	80.0000	83.0613
* 28 Naphthalene-d8	136	7.083	7.083	(1.000)	817158	40.0000	
29 Naphthalene	128	7.104	7.104	(1.003)	1976284	80.0000	85.3302
30 4-Chloroaniline	127	7.197	7.197	(1.016)	736265	80.0000	81.0900
31 Hexachlorobutadiene	225	7.301	7.301	(1.031)	423974	80.0000	84.6906
32 4-Chloro-3-methylphenol	107	7.777	7.777	(1.098)	651433	80.0000	85.6857
33 2-Methylnaphthalene	142	7.932	7.932	(1.120)	1425933	80.0000	88.6685
34 Hexachlorocyclopentadiene	237	8.191	8.191	(0.888)	380764	80.0000	83.5082
35 2,4,6-Trichlorophenol	196	8.305	8.305	(0.900)	504911	80.0000	85.4813
36 2,4,5-Trichlorophenol	196	8.356	8.356	(0.906)	492806	80.0000	81.7337
$ 37 2-Fluorobiphenyl	172	8.398	8.398	(0.910)	1442236	80.0000	77.5837
38 2-Chloronaphthalene	162	8.522	8.522	(0.924)	1316276	80.0000	84.5303
39 2-Nitroaniline	65	8.708	8.708	(0.944)	444901	80.0000	78.4965
40 Dimethylphthalate	163	8.957	8.957	(0.971)	1507889	80.0000	80.7728
41 2,6-Dinitrotoluene	165	9.050	9.050	(0.981)	376863	80.0000	80.1326
42 Acenaphthylene	152	9.039	9.039	(0.980)	2052629	80.0000	82.2717
43 3-Nitroaniline	138	9.226	9.226	(1.000)	376015	80.0000	84.7529
* 44 Acenaphthene-d10	164	9.226	9.226	(1.000)	546816	40.0000	
45 Acenaphthene	154	9.278	9.278	(1.006)	1308697	80.0000	83.2495
46 2,4-Dinitrophenol	184	9.350	9.350	(1.013)	220191	80.0000	79.4987
47 4-Nitrophenol	109	9.443	9.443	(1.024)	194589	80.0000	86.0507
48 Dibenzofuran	168	9.464	9.464	(1.026)	1821247	80.0000	79.6297
49 Diethylphthalate	149	9.816	9.816	(1.064)	1397700	80.0000	80.2877
50 4-Chlorophenyl-phenylether	204	9.878	9.878	(1.071)	694982	80.0000	71.8784
51 Fluorene	166	9.888	9.888	(1.072)	1435005	80.0000	79.0946
52 2,4-Dinitrotoluene	165	9.536	9.536	(1.034)	467861	80.0000	80.4255
53 4-Nitroaniline	138	10.012	10.012	(1.085)	284231	80.0000	80.1674
54 4,6-Dinitro-2-methylphenol	198	10.054	10.054	(0.911)	328900	80.0000	91.6776
55 N-Nitrosodiphenylamine	169	10.054	10.054	(0.911)	1030143	80.0000	82.5007
56 Azobenzene	77	10.074	10.074	(0.913)	1671168	80.0000	82.5521
$ 57 2,4,6-Tribromophenol	330	10.219	10.219	(1.108)	307783	80.0000	81.4404
58 4-Bromophenyl-phenylether	248	10.468	10.468	(0.948)	543234	80.0000	88.0369
59 Hexachlorobenzene	284	10.664	10.664	(0.966)	558377	80.0000	83.3491
60 Pentachlorophenol	266	10.892	10.892	(0.987)	343421	80.0000	83.4424
* 61 Phenanthrene-d10	188	11.037	11.037	(1.000)	953814	40.0000	
62 Phenanthrene	178	11.068	11.068	(1.003)	2131281	80.0000	80.8440
63 Anthracene	178	11.130	11.130	(1.008)	2354179	80.0000	87.2999
64 Carbazole	167	11.327	11.327	(1.026)	1615266	80.0000	85.2637
65 Di-n-butylphthalate	149	11.782	11.782	(1.068)	2453772	80.0000	82.8925
66 Fluoranthene	202	12.538	12.538	(1.136)	2458756	80.0000	81.0309
67 Benzidine	184	12.693	12.693	(0.886)	74954	80.0000	78.2564
68 Pyrene	202	12.817	12.817	(0.895)	2521438	80.0000	76.7490
$ 69 Terphenyl-d14	244	13.004	13.004	(0.908)	2061196	80.0000	80.7203
70 Butylbenzylphthalate	149	13.625	13.625	(0.951)	1120277	80.0000	79.7750
71 bis(2-Ethylhexyl)phthalate	149	14.339	14.339	(1.001)	1498041	80.0000	77.4622
72 3,3'-Dichlorobenzidine	252	14.297	14.297	(0.998)	805272	80.0000	83.4145
73 Benzo(a)anthracene	228	14.308	14.308	(0.999)	2429528	80.0000	77.3768
* 74 Chrysene-d12	240	14.328	14.328	(1.000)	956588	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU07.D
Report Date: 31-Aug-2004 09:14

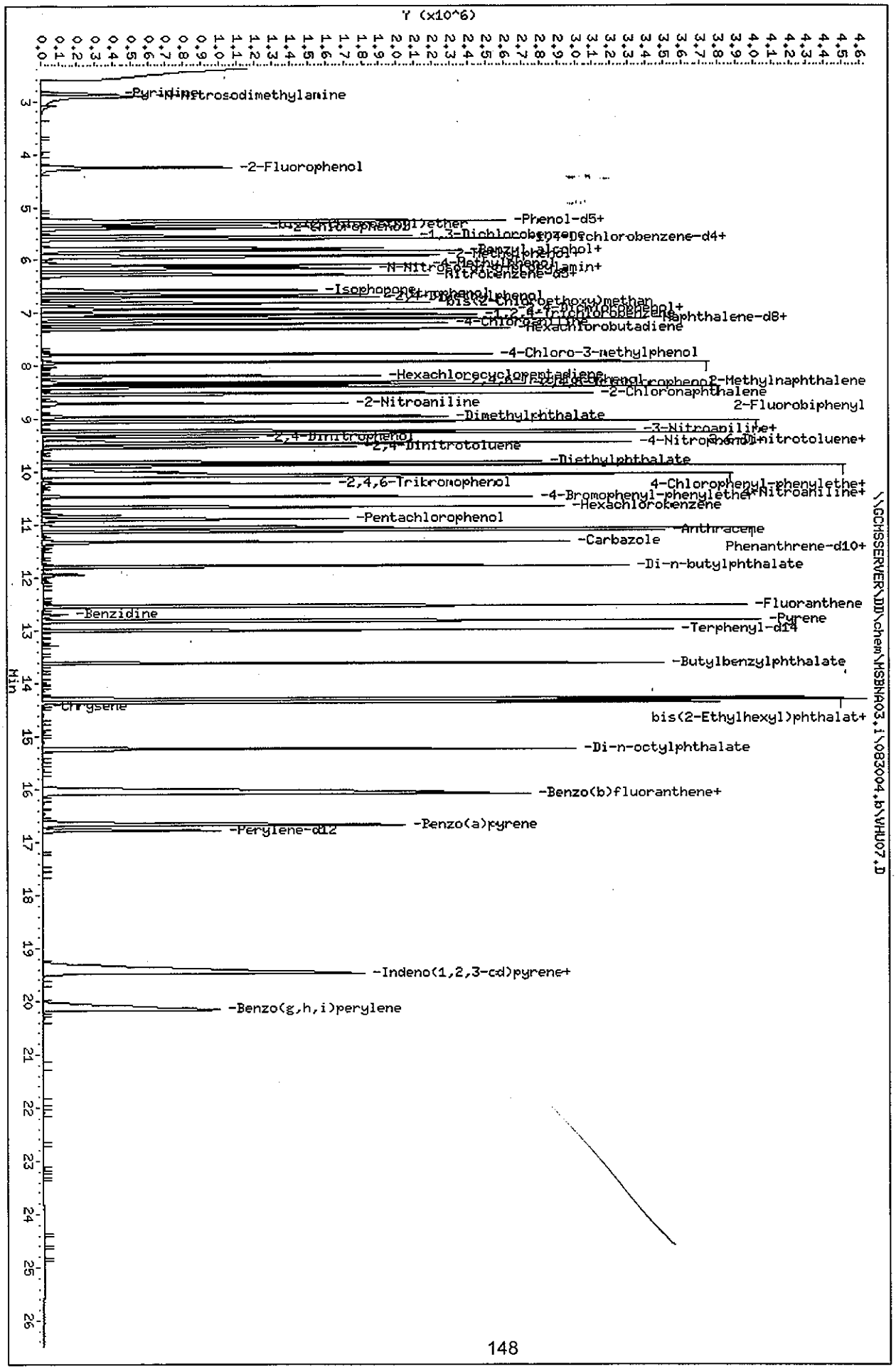
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	14.370	14.370	(1.003)	2540493	80.0000	80.3790
76 Di-n-octylphthalate	149	15.250	15.250	(0.909)	2751898	80.0000	84.3120
77 Benzo(b)fluoranthene	252	16.057	16.057	(0.957)	3574302	80.0000	80.5240(A)
78 Benzo(k)fluoranthene	252	16.088	16.088	(0.959)	2423813	80.0000	88.0616(A)
79 Benzo(a)pyrene	252	16.678	16.678	(0.994)	2361163	80.0000	89.1083
* 80 Perylene-d12	264	16.781	16.781	(1.000)	779825	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.452	19.452	(1.159)	2769192	80.0000	86.7300
82 Dibenz(a,h)anthracene	278	19.483	19.483	(1.161)	2339800	80.0000	79.6650
83 Benzo(g,h,i)perylene	276	20.155	20.155	(1.201)	2069966	80.0000	83.7872

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU07.D
Date : 30-AUG-2004 17:50
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04MS1380
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU08.D
Report Date: 31-Aug-2004 09:14

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 18:26 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1381
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:14 target Quant Type: ISTD
Cal Date : 30-AUG-2004 18:26 Cal File: VHU08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	2.923	2.912	(0.523)	545411	120.000	118.7183
2 Pyridine	79	2.861	2.860	(0.512)	1051000	120.000	121.1527
$ 3 2-Fluorophenol	112	4.258	4.258	(0.761)	898492	120.000	121.8613
$ 4 Phenol-d5	99	5.273	5.262	(0.943)	1246321	120.000	121.0162
5 Phenol	94	5.283	5.272	(0.944)	1324193	120.000	114.0973
6 Aniline	66	5.293	5.282	(0.946)	414260	120.000	102.4044 (M)
7 bis(2-Chloroethyl)ether	63	5.355	5.344	(0.957)	758688	120.000	118.0182
8 2-Chlorophenol	128	5.407	5.407	(0.967)	947585	120.000	122.1159
9 1,3-Dichlorobenzene	146	5.552	5.551	(0.993)	1122697	120.000	122.4067
* 10 1,4-Dichlorobenzene-d4	152	5.593	5.593	(1.000)	235660	40.0000	
11 1,4-Dichlorobenzene	146	5.614	5.614	(1.004)	1147828	120.000	119.9708
12 Benzyl alcohol	108	5.800	5.790	(1.037)	712783	120.000	124.9084
13 2-Methylphenol	107	5.925	5.914	(1.059)	771902	120.000	118.2572
14 1,2-Dichlorobenzene	146	5.832	5.821	(1.043)	1107956	120.000	126.4700
15 bis(2-Chloroisopropyl) ether	45	5.945	5.945	(1.063)	1284330	120.000	111.9595
16 4-Methylphenol	107	6.111	6.100	(1.093)	1187877	120.000	119.1677
17 N-Nitroso-di-n-propylamine	70	6.152	6.141	(1.100)	651447	120.000	121.1416
18 Hexachloroethane	117	6.163	6.162	(1.102)	412393	120.000	119.6620
$ 19 Nitrobenzene-d5	82	6.287	6.276	(0.888)	1181086	120.000	124.3824
20 Nitrobenzene	77	6.308	6.297	(0.890)	1163303	120.000	123.8491

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU08.D
Report Date: 31-Aug-2004 09:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.577	6.566	(0.928)	2054603	120.000	125.4022
	22 2,4-Dimethylphenol	122	6.722	6.700	(0.949)	719874	120.000	132.8897
	23 2-Nitrophenol	139	6.670	6.659	(0.942)	598093	120.000	135.9026
	24 bis(2-Chloroethoxy)methane	93	6.825	6.814	(0.963)	1288966	120.000	131.1520
	25 Benzoic acid	122	6.949	6.938	(0.981)	492449	120.000	120.2518(M)
	26 2,4-Dichlorophenol	162	6.949	6.938	(0.981)	906737	120.000	132.5467
	27 1,2,4-Trichlorobenzene	180	7.032	7.032	(0.993)	1032574	120.000	130.4417
*	28 Naphthalene-d8	136	7.084	7.083	(1.000)	771230	40.0000	
	29 Naphthalene	128	7.115	7.104	(1.004)	2665504	120.000	121.9425
	30 4-Chloroaniline	127	7.208	7.197	(1.018)	1127616	120.000	131.5881
	31 Hexachlorobutadiene	225	7.312	7.301	(1.032)	574583	120.000	121.6104
	32 4-Chloro-3-methylphenol	107	7.777	7.777	(1.098)	914848	120.000	127.4999
	33 2-Methylnaphthalene	142	7.933	7.932	(1.120)	1946128	120.000	128.2224
	34 Hexachlorocyclopentadiene	237	8.191	8.191	(0.888)	562567	120.000	125.6418
	35 2,4,6-Trichlorophenol	196	8.316	8.305	(0.901)	704005	120.000	122.4331
	36 2,4,5-Trichlorophenol	196	8.367	8.356	(0.907)	722446	120.000	123.0828
$	37 2-Fluorobiphenyl	172	8.409	8.398	(0.911)	2148875	120.000	118.7442
	38 2-Chloronaphthalene	162	8.533	8.522	(0.925)	1765609	120.000	116.4734
	39 2-Nitroaniline	65	8.719	8.708	(0.945)	657505	120.000	119.1662
	40 Dimethylphthalate	163	8.968	8.957	(0.972)	2231098	120.000	122.7669
	41 2,6-Dinitrotoluene	165	9.061	9.050	(0.982)	561313	120.000	122.6020
	42 Acenaphthylene	152	9.050	9.039	(0.981)	2761370	120.000	113.6924
	43 3-Nitroaniline	138	9.247	9.226	(1.002)	608122	120.000	140.8014
*	44 Acenaphthene-d10	164	9.226	9.226	(1.000)	532322	40.0000	
	45 Acenaphthene	154	9.278	9.278	(1.006)	1799695	120.000	117.6003
	46 2,4-Dinitrophenol	184	9.361	9.350	(1.015)	347265	120.000	120.2219
	47 4-Nitrophenol	109	9.454	9.443	(1.025)	278550	120.000	126.5336
	48 Dibenzofuran	168	9.475	9.464	(1.027)	2620869	120.000	117.7114
	49 Diethylphthalate	149	9.827	9.816	(1.065)	2176281	120.000	128.4153
	50 4-Chlorophenyl-phenylether	204	9.889	9.878	(1.072)	864818	120.000	91.8791
	51 Fluorene	166	9.899	9.888	(1.073)	1793656	120.000	101.5545
	52 2,4-Dinitrotoluene	165	9.547	9.536	(1.035)	675344	120.000	119.2529
	53 4-Nitroaniline	138	10.044	10.012	(1.089)	468494	120.000	135.7367
	54 4,6-Dinitro-2-methylphenol	198	10.065	10.054	(0.912)	438974	120.000	124.5436
	55 N-Nitrosodiphenylamine	169	10.054	10.054	(0.911)	1579039	120.000	128.7172
	56 Azobenzene	77	10.085	10.074	(0.914)	2178983	120.000	109.5583
$	57 2,4,6-Tribromophenol	330	10.220	10.219	(1.108)	469104	120.000	124.8409
	58 4-Bromophenyl-phenylether	248	10.479	10.468	(0.949)	734757	120.000	121.2007
	59 Hexachlorobenzene	284	10.675	10.664	(0.967)	818319	120.000	124.3310
	60 Pentachlorophenol	266	10.893	10.892	(0.987)	504691	120.000	118.0077
*	61 Phenanthrene-d10	188	11.038	11.037	(1.000)	937088	40.0000	
	62 Phenanthrene	178	11.079	11.068	(1.004)	3055784	120.000	117.9813
	63 Anthracene	178	11.131	11.130	(1.008)	3289843	120.000	124.1747
	64 Carbazole	167	11.338	11.327	(1.027)	2540571	120.000	136.5008
	65 Di-n-butylphthalate	149	11.793	11.782	(1.068)	3369298	120.000	115.8521
	66 Fluoranthene	202	12.549	12.538	(1.137)	3558206	120.000	119.3575
	67 Benzidine	184	12.694	12.693	(0.886)	149784	120.000	181.3153
	68 Pyrene	202	12.828	12.817	(0.895)	3586633	120.000	126.5773
$	69 Terphenyl-d14	244	13.004	13.004	(0.908)	2740376	120.000	124.4279
	70 Butylbenzylphthalate	149	13.625	13.625	(0.951)	1718508	120.000	141.8852
	71 bis(2-Ethylhexyl)phthalate	149	14.350	14.339	(1.001)	1947614	120.000	116.7651
	72 3,3'-Dichlorobenzidine	252	14.308	14.297	(0.999)	1007906	120.000	121.0495
	73 Benzo(a)anthracene	228	14.319	14.308	(0.999)	3190122	120.000	117.7987(M)
*	74 Chrysene-d12	240	14.329	14.328	(1.000)	825051	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU08.D
Report Date: 31-Aug-2004 09:14

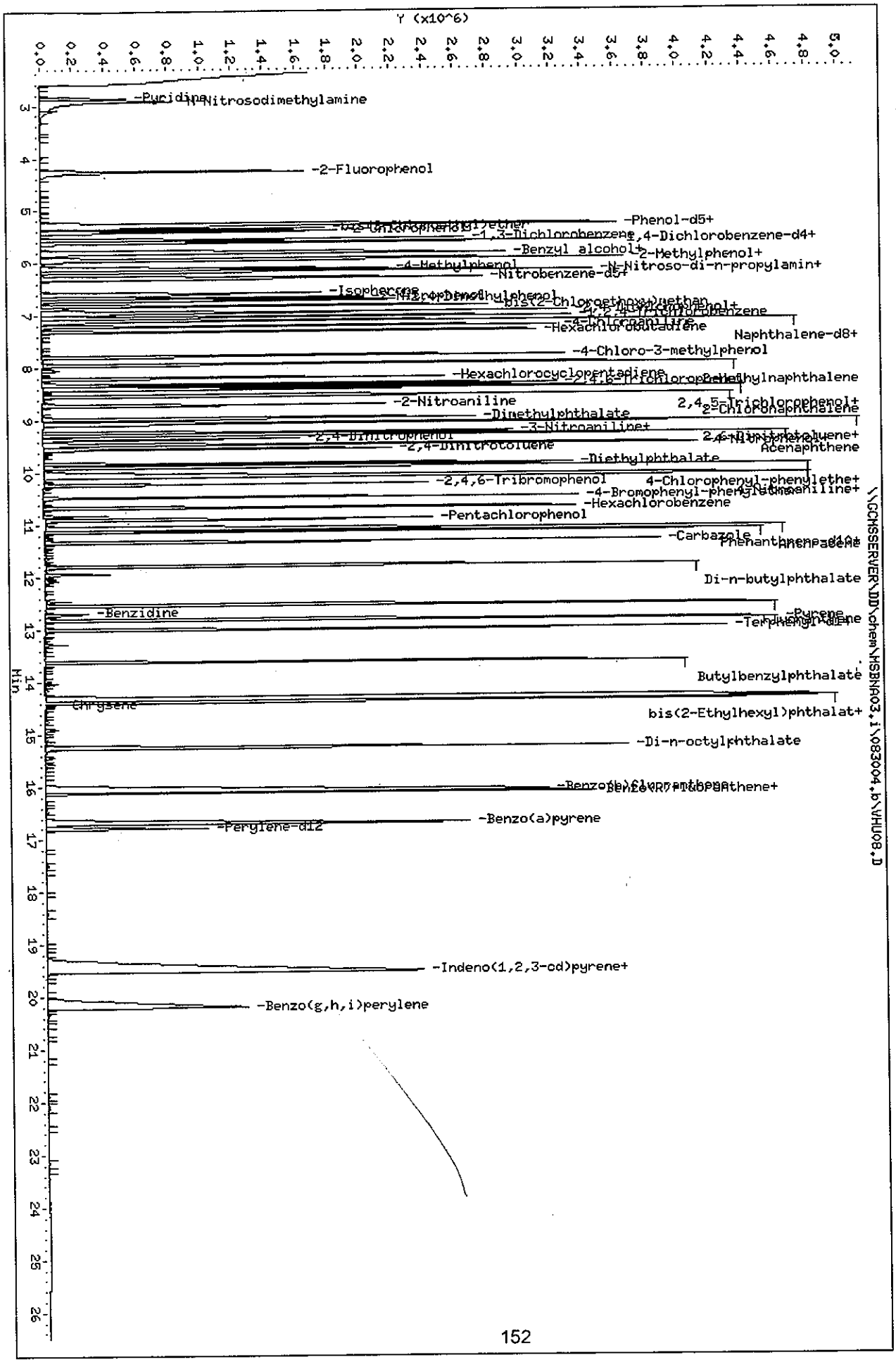
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	14.391	14.370	(1.004)	3503767	120.000	128.5299
76 Di-n-octylphthalate	149	15.250	15.250	(0.908)	4003531	120.000	130.7950
77 Benzo(b)fluoranthene	252	16.078	16.057	(0.957)	6127929	120.000	119.8347(A)
78 Benzo(k)fluoranthene	252	16.120	16.088	(0.960)	2471944	120.000	95.7672(AH)
79 Benzo(a)pyrene	252	16.699	16.678	(0.994)	3610721	120.000	145.3038
* 80 Perylene-d12	264	16.792	16.781	(1.000)	731318	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.514	19.452	(1.162)	4114853	120.000	137.4237
82 Dibenz(a,h)anthracene	278	19.525	19.483	(1.163)	3461465	120.000	121.6683
83 Benzo(g,h,i)perylene	276	20.198	20.155	(1.203)	2979596	120.000	128.6065

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU08.D
Date : 30-AUG-2004 18:26
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1381
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU09.D
Report Date: 31-Aug-2004 09:14

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 19:05 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICAL,04WS1382
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:14 target Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	2.932	2.912	(0.523)	718110	160.000	155.3954
2 Pyridine	79	2.869	2.860	(0.512)	1432311	160.000	164.1425
$ 3 2-Fluorophenol	112	4.267	4.258	(0.762)	1224331	160.000	165.0835
$ 4 Phenol-d5	99	5.281	5.262	(0.943)	1648326	160.000	159.1146
5 Phenol	94	5.302	5.272	(0.946)	1856599	160.000	159.0360
6 Aniline	66	5.312	5.282	(0.948)	370592	160.000	91.0741(M)
7 bis(2-Chloroethyl)ether	63	5.374	5.344	(0.959)	1069222	160.000	165.3511
8 2-Chlorophenol	128	5.416	5.407	(0.967)	1298979	160.000	166.4216
9 1,3-Dichlorobenzene	146	5.561	5.551	(0.993)	1536552	160.000	166.5494
* 10 1,4-Dichlorobenzene-d4	152	5.602	5.593	(1.000)	237046	40.0000	
11 1,4-Dichlorobenzene	146	5.623	5.614	(1.004)	1446810	160.000	150.3362
12 Benzyl alcohol	108	5.819	5.790	(1.039)	942424	160.000	164.1852
13 2-Methylphenol	107	5.933	5.914	(1.059)	989647	160.000	150.7298
14 1,2-Dichlorobenzene	146	5.830	5.821	(1.041)	1379426	160.000	156.5369
15 bis(2-Chloroisopropyl) ether	45	5.954	5.945	(1.063)	1642597	160.000	142.3536
16 4-Methylphenol	107	6.130	6.100	(1.094)	1626463	160.000	162.2126(M)
17 N-Nitroso-di-n-propylamine	70	6.171	6.141	(1.102)	723018	160.000	133.6647
18 Hexachloroethane	117	6.171	6.162	(1.102)	492862	160.000	142.1751
$ 19 Nitrobenzene-d5	82	6.295	6.276	(0.888)	1568490	160.000	162.4403
20 Nitrobenzene	77	6.316	6.297	(0.891)	1448027	160.000	151.6042

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU09.D
Report Date: 31-Aug-2004 09:14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.596	6.566	(0.930)	2785431	160.000	167.1876(M)
	22 2,4-Dimethylphenol	122	6.730	6.700	(0.949)	974278	160.000	176.8692
	23 2-Nitrophenol	139	6.678	6.659	(0.942)	845410	160.000	188.9126
	24 bis(2-Chloroethoxy)methane	93	6.834	6.814	(0.964)	1647414	160.000	164.8431
	25 Benzoic acid	122	7.020	6.938	(0.990)	707327	160.000	159.6967(M)
	26 2,4-Dichlorophenol	162	6.958	6.938	(0.981)	1140455	160.000	163.9457
	27 1,2,4-Trichlorobenzene	180	7.041	7.032	(0.993)	1318498	160.000	163.7982
*	28 Naphthalene-d8	136	7.092	7.083	(1.000)	784241	40.0000	
	29 Naphthalene	128	7.123	7.104	(1.004)	3463433	160.000	155.8178
	30 4-Chloroaniline	127	7.217	7.197	(1.018)	1511618	160.000	173.4730
	31 Hexachlorobutadiene	225	7.310	7.301	(1.031)	706751	160.000	147.1021
	32 4-Chloro-3-methylphenol	107	7.786	7.777	(1.098)	1186362	160.000	162.5970
	33 2-Methylnaphthalene	142	7.941	7.932	(1.120)	2328920	160.000	150.8973
	34 Hexachlorocyclopentadiene	237	8.200	8.191	(0.888)	698113	160.000	153.5767
	35 2,4,6-Trichlorophenol	196	8.324	8.305	(0.901)	950937	160.000	163.4064
	36 2,4,5-Trichlorophenol	196	8.376	8.356	(0.907)	947945	160.000	159.5767
$	37 2-Fluorobiphenyl	172	8.417	8.398	(0.911)	2707579	160.000	147.8349
	38 2-Chloronaphthalene	162	8.541	8.522	(0.925)	2252771	160.000	146.8398
	39 2-Nitroaniline	65	8.728	8.708	(0.945)	851864	160.000	152.5523
	40 Dimethylphthalate	163	8.976	8.957	(0.972)	2941860	160.000	159.9481
	41 2,6-Dinitrotoluene	165	9.080	9.050	(0.983)	712640	160.000	153.8003
	42 Acenaphthylene	152	9.059	9.039	(0.981)	3500681	160.000	142.4143
	43 3-Nitroaniline	138	9.255	9.226	(1.002)	749446	160.000	171.4553
*	44 Acenaphthene-d10	164	9.235	9.226	(1.000)	538741	40.0000	
	45 Acenaphthene	154	9.287	9.278	(1.006)	2344374	160.000	151.3669
	46 2,4-Dinitrophenol	184	9.380	9.350	(1.016)	498393	160.000	159.9518
	47 4-Nitrophenol	109	9.473	9.443	(1.026)	337490	160.000	151.4810
	48 Dibenzofuran	168	9.483	9.464	(1.027)	2968719	160.000	131.7458
	49 Diethylphthalate	149	9.845	9.816	(1.066)	2467388	160.000	143.8579
	50 4-Chlorophenyl-phenylether	204	9.897	9.878	(1.072)	908618	160.000	95.3822
	51 Fluorene	166	9.908	9.888	(1.073)	2202444	160.000	123.2138(M)
	52 2,4-Dinitrotoluene	165	9.566	9.536	(1.036)	953301	160.000	166.3291
	53 4-Nitroaniline	138	10.063	10.012	(1.090)	648297	160.000	185.5930
	54 4,6-Dinitro-2-methylphenol	198	10.084	10.054	(0.913)	393353	160.000	113.5670
	55 N-Nitrosodiphenylamine	169	10.063	10.054	(0.911)	1718301	160.000	142.5377
	56 Azobenzene	77	10.094	10.074	(0.914)	2735500	160.000	139.9635
$	57 2,4,6-Tribromophenol	330	10.239	10.219	(1.109)	598833	160.000	156.2350
	58 4-Bromophenyl-phenylether	248	10.487	10.468	(0.949)	909941	160.000	152.7430
	59 Hexachlorobenzene	284	10.684	10.664	(0.967)	997619	160.000	154.2440
	60 Pentachlorophenol	266	10.901	10.892	(0.987)	715239	160.000	160.3550
*	61 Phenanthrene-d10	188	11.046	11.037	(1.000)	920860	40.0000	
	62 Phenanthrene	178	11.087	11.068	(1.004)	3904610	160.000	153.4105
	63 Anthracene	178	11.150	11.130	(1.009)	3845386	160.000	147.7014
	64 Carbazole	167	11.346	11.327	(1.027)	3460298	160.000	189.1926
	65 Di-n-butylphthalate	149	11.802	11.782	(1.068)	4243553	160.000	148.4844
	66 Fluoranthene	202	12.557	12.538	(1.137)	4304401	160.000	146.9325
	67 Benzidine	184	12.702	12.693	(0.885)	209859	160.000	321.9011(A)
	68 Pyrene	202	12.837	12.817	(0.895)	4357159	160.000	194.8490
$	69 Terphenyl-d14	244	13.013	13.004	(0.907)	3291221	160.000	189.3609
	70 Butylbenzylphthalate	149	13.634	13.625	(0.950)	2183690	160.000	228.4559(A)
	71 bis(2-Ethylhexyl)phthalate	149	14.358	14.339	(1.001)	2201192	160.000	167.2222
	72 3,3'-Dichlorobenzidine	252	14.327	14.297	(0.999)	1102671	160.000	167.8088
	73 Benzo(a)anthracene	228	14.296	14.308	(0.996)	3677543	160.000	172.0747
*	74 Chrysene-d12	240	14.348	14.328	(1.000)	651111	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU09.D
Report Date: 31-Aug-2004 09:14

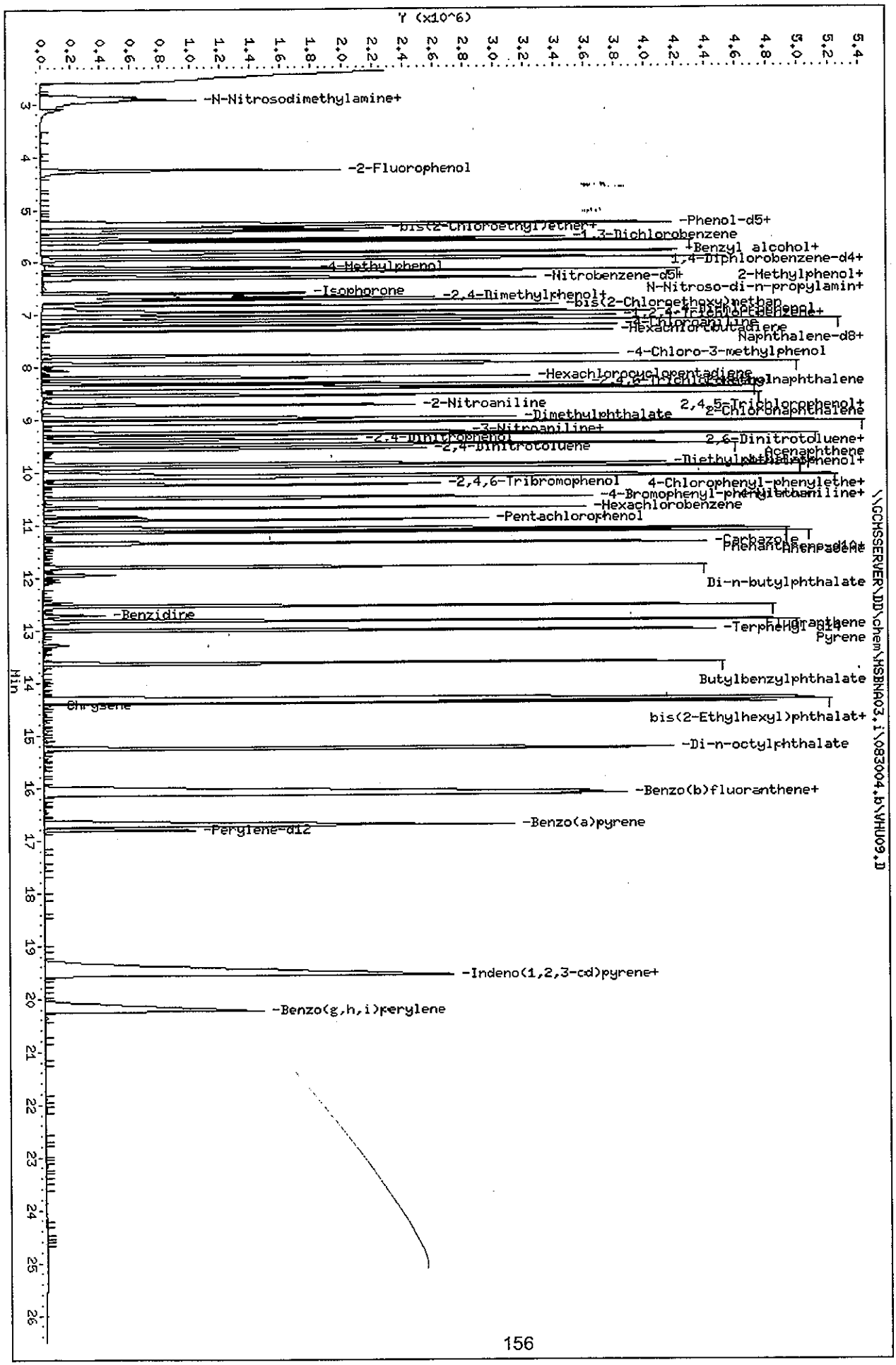
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	14.400	14.370	(1.004)	3936510	160.000	182.9810
76 Di-n-octylphthalate	149	15.259	15.250	(0.908)	5115541	160.000	171.4285
77 Benzo(b)fluoranthene	252	16.097	16.057	(0.958)	7782021	160.000	133.2633(A)
78 Benzo(k)fluoranthene	252	16.138	16.088	(0.960)	3674539	160.000	146.0242(AM)
79 Benzo(a)pyrene	252	16.728	16.678	(0.995)	4739701	160.000	195.6489
* 80 Perylene-d12	264	16.811	16.781	(1.000)	712956	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.554	19.452	(1.163)	5371760	160.000	184.0210
82 Dibenz(a,h)anthracene	278	19.564	19.483	(1.164)	4535230	160.000	159.2183
83 Benzo(g,h,i)perylene	276	20.237	20.155	(1.204)	3759150	160.000	166.4327

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\WHU09.D
Date : 30-AUG-2004 19:05
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1382
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524350774010
Calnum : 524350774002
Standards: 04WS1163

Run Name : 80ug/mL
Filename : vhu10
Caldate : 30-AUG-2004

Injected : 30-AUG-2004 19:42
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	72.91710	ng	-9	30	
Pyridine	80.00000	78.70560	ng	-2	30	
Phenol	80.00000	75.18720	ng	-6	20	
Aniline	80.00000	40.74040	ng	-49	30	m v- ***
bis(2-Chloroethyl)ether	80.00000	72.11390	ng	-10	30	
2-Chlorophenol	80.00000	77.78290	ng	-3	30	
1,3-Dichlorobenzene	80.00000	72.03370	ng	-10	30	
1,4-Dichlorobenzene	80.00000	71.83530	ng	-10	20	
Benzyl alcohol	80.00000	77.77340	ng	-3	30	
1,2-Dichlorobenzene	80.00000	73.58000	ng	-8	30	
2-Methylphenol	80.00000	75.91380	ng	-5	30	
bis(2-Chloroisopropyl) ether	80.00000	67.18710	ng	-16	30	
4-Methylphenol	80.00000	72.61960	ng	-9	30	
N-Nitroso-di-n-propylamine	80.00000	80.10870	ng	0	30	
Hexachloroethane	80.00000	74.85060	ng	-6	30	
Nitrobenzene	80.00000	67.64210	ng	-15	30	
Isophorone	80.00000	69.15160	ng	-14	30	
2-Nitrophenol	80.00000	69.93560	ng	-13	20	
2,4-Dimethylphenol	80.00000	85.09360	ng	6	30	
bis(2-Chloroethoxy)methane	80.00000	67.94470	ng	-15	30	
Benzoic acid	80.00000	81.45990	ng	2	40	m
2,4-Dichlorophenol	80.00000	72.36640	ng	-10	20	
1,2,4-Trichlorobenzene	80.00000	71.57690	ng	-11	30	
Naphthalene	80.00000	73.50980	ng	-8	30	
4-Chloroaniline	80.00000	62.16440	ng	-22	30	!v-
Hexachlorobutadiene	80.00000	68.41390	ng	-14	20	
4-Chloro-3-methylphenol	80.00000	75.80860	ng	-5	20	
2-Methylnaphthalene	80.00000	74.24590	ng	-7	30	
Hexachlorocyclopentadiene	80.00000	77.51690	ng	-3	40	
2,4,6-Trichlorophenol	80.00000	75.17700	ng	-6	20	
2,4,5-Trichlorophenol	80.00000	74.80350	ng	-6	30	
2-Chloronaphthalene	80.00000	75.95550	ng	-5	30	
2-Nitroaniline	80.00000	66.77970	ng	-17	30	
Dimethylphthalate	80.00000	69.49220	ng	-13	30	
2,6-Dinitrotoluene	80.00000	72.24600	ng	-10	30	
Acenaphthylene	80.00000	70.55560	ng	-12	30	
3-Nitroaniline	80.00000	64.79070	ng	-19	30	
Acenaphthene	80.00000	70.38230	ng	-12	20	
2,4-Dinitrophenol	80.00000	73.57620	ng	-8	40	
4-Nitrophenol	80.00000	74.23210	ng	-7	40	
Dibenzofuran	80.00000	69.74590	ng	-13	30	
2,4-Dinitrotoluene	80.00000	68.29280	ng	-15	30	
Diethylphthalate	80.00000	72.66280	ng	-9	30	
Fluorene	80.00000	65.96010	ng	-18	30	
4-Chlorophenyl-phenylether	80.00000	58.91240	ng	-26	40	
4-Nitroaniline	80.00000	37.38760	ng	-53	30	v- ***
4,6-Dinitro-2-methylphenol	80.00000	82.86620	ng	4	30	

!=warning -=low bias m=manual integration v=ICV

8/31/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524350774010
Calnum : 524350774002
Standards: 04WS1163

Run Name : 80ug/mL
Filename : vhu10
Caldate : 30-AUG-2004

Injected : 30-AUG-2004 19:42
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	69.14160	ng	-14	20	
Azobenzene	80.00000	67.24780	ng	-16	30	
4-Bromophenyl-phenylether	80.00000	72.10670	ng	-10	30	
Hexachlorobenzene	80.00000	68.43570	ng	-14	30	
Pentachlorophenol	80.00000	73.00910	ng	-9	20	
Phenanthrene	80.00000	73.05140	ng	-9	30	
Anthracene	80.00000	70.41120	ng	-12	30	
Carbazole	80.00000	40.71050	ng	-49	30	v- ***
Di-n-butylphthalate	80.00000	68.50470	ng	-14	30	
Fluoranthene	80.00000	67.71040	ng	-15	20	
Benzidine	80.00000	10.12960	ng	-87	40	v- ***
Pyrene	80.00000	66.33350	ng	-17	30	
Butylbenzylphthalate	80.00000	71.70690	ng	-10	30	
3,3'-Dichlorobenzidine	80.00000	65.61940	ng	-18	40	
Benzo(a)anthracene	80.00000	72.40720	ng	-9	30	
bis(2-Ethylhexyl)phthalate	80.00000	66.01480	ng	-17	30	
Chrysene	80.00000	69.49790	ng	-13	30	
Di-n-octylphthalate	80.00000	73.21580	ng	-8	20	
Benzo(b)fluoranthene	80.00000	77.28700	ng	-3	30	
Benzo(k)fluoranthene	80.00000	65.08590	ng	-19	30	
Benzo(a)pyrene	80.00000	78.64980	ng	-2	20	
Indeno(1,2,3-cd)pyrene	80.00000	74.28500	ng	-7	30	
Dibenz(a,h)anthracene	80.00000	72.08080	ng	-10	30	
Benzo(g,h,i)perylene	80.00000	69.46920	ng	-13	30	
2-Fluorophenol	80.00000	72.74460	ng	-9	30	
Phenol-d5	80.00000	71.13350	ng	-11	30	
Nitrobenzene-d5	80.00000	70.50550	ng	-12	30	
2-Fluorobiphenyl	80.00000	66.82620	ng	-16	30	
2,4,6-Tribromophenol	80.00000	68.25590	ng	-15	30	
Terphenyl-d14	80.00000	66.18980	ng	-17	30	

ISTD (CCV=vhu02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	259507	303301	16.88	5.60	5.59	-0.01
Naphthalene-d8	942062	1055684	12.06	7.08	7.09	0.02
Acenaphthene-d10	597439	704687	17.95	9.23	9.23	0.00
Phenanthrene-d10	1088251	1259353	15.72	11.03	11.04	0.01
Chrysene-d12	1116120	1162841	4.19	14.32	14.33	0.01
Perylene-d12	920724	975814	5.98	16.78	16.79	0.01

08/31/04

!=warning -=low bias m=manual integration v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU10.D
Report Date: 31-Aug-2004 09:18

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-AUG-2004 19:42 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : ICV,04WS1163
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\6PTBNA3.m
Meth Date : 31-Aug-2004 09:15 target Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 N-Nitrosodimethylamine	42	2.913	2.912	(0.521)	431145	72.9171	72.9171
2 Pyridine	79	2.861	2.860	(0.512)	878746	78.7056	78.7056
$ 3 2-Fluorophenol	112	4.269	4.258	(0.763)	690299	72.7446	72.7446
$ 4 Phenol-d5	99	5.263	5.262	(0.941)	942863	71.1335	71.1335
5 Phenol	94	5.283	5.272	(0.944)	1123072	75.1872	75.1872
6 Aniline	66	5.294	5.282	(0.946)	212113	40.7404	40.7403(M)
7 bis(2-Chloroethyl)ether	63	5.356	5.344	(0.957)	596652	72.1139	72.1139
8 2-Chlorophenol	128	5.407	5.407	(0.967)	776815	77.7829	77.7828
9 1,3-Dichlorobenzene	146	5.552	5.551	(0.993)	850317	72.0337	72.0336
* 10 1,4-Dichlorobenzene-d4	152	5.594	5.593	(1.000)	303301	40.0000	
11 1,4-Dichlorobenzene	146	5.614	5.614	(1.004)	884559	71.8353	71.8352
12 Benzyl alcohol	108	5.790	5.790	(1.035)	571195	77.7734	77.7733
13 2-Methylphenol	107	5.925	5.914	(1.059)	637739	75.9138	75.9137
14 1,2-Dichlorobenzene	146	5.832	5.821	(1.043)	829626	73.5800	73.5799
15 bis(2-Chloroisopropyl) ether	45	5.946	5.945	(1.063)	991950	67.1871	67.1871
16 4-Methylphenol	107	6.101	6.100	(1.091)	931654	72.6196	72.6196
17 N-Nitroso-di-n-propylamine	70	6.142	6.141	(1.098)	554438	80.1087	80.1086
18 Hexachloroethane	117	6.163	6.162	(1.102)	332000	74.8506	74.8505
$ 19 Nitrobenzene-d5	82	6.277	6.276	(0.886)	916422	70.5055	70.5055(R)
20 Nitrobenzene	77	6.298	6.297	(0.889)	869695	67.6421	67.6421

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU10.D
Report Date: 31-Aug-2004 09:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	6.567	6.566	(0.927)	1550869	69.1516	69.1516
	22 2,4-Dimethylphenol	122	6.712	6.700	(0.947)	630975	85.0936	85.0936
	23 2-Nitrophenol	139	6.660	6.659	(0.940)	421298	69.9356	69.9356
	24 bis(2-Chloroethoxy)methane	93	6.815	6.814	(0.962)	914054	67.9447	67.9446
	25 Benzoic acid	122	6.939	6.938	(0.980)	426072	81.4599	81.4598 (M)
	26 2,4-Dichlorophenol	162	6.939	6.938	(0.980)	677640	72.3664	72.3663
	27 1,2,4-Trichlorobenzene	180	7.032	7.032	(0.993)	775581	71.5769	71.5768
*	28 Naphthalene-d8	136	7.084	7.083	(1.000)	1055684	40.0000	
	29 Naphthalene	128	7.105	7.104	(1.003)	2199477	73.5098	73.5098
	30 4-Chloroaniline	127	7.198	7.197	(1.016)	729183	62.1644	62.1644
	31 Hexachlorobutadiene	225	7.302	7.301	(1.031)	442462	68.4139	68.4138
	32 4-Chloro-3-methylphenol	107	7.778	7.777	(1.098)	744573	75.8086	75.8085
	33 2-Methylnaphthalene	142	7.933	7.932	(1.120)	1542516	74.2459	74.2458
	34 Hexachlorocyclopentadiene	237	8.192	8.191	(0.888)	454571	77.5169	77.5168
	35 2,4,6-Trichlorophenol	196	8.316	8.305	(0.901)	572247	75.1770	75.1769
	36 2,4,5-Trichlorophenol	196	8.357	8.356	(0.906)	581235	74.8035	74.8035
$	37 2-Fluorobiphenyl	172	8.399	8.398	(0.910)	1600911	66.8262	66.8262(R)
	38 2-Chloronaphthalene	162	8.523	8.522	(0.924)	1524223	75.9555	75.9554
	39 2-Nitroaniline	65	8.709	8.708	(0.944)	487767	66.7797	66.7797
	40 Dimethylphthalate	163	8.958	8.957	(0.971)	1671841	69.4922	69.4921
	41 2,6-Dinitrotoluene	165	9.061	9.050	(0.982)	437868	72.2460	72.2460
	42 Acenaphthylene	152	9.040	9.039	(0.980)	2268541	70.5556	70.5556
	43 3-Nitroaniline	138	9.237	9.226	(1.001)	370440	64.7907	64.7906
*	44 Acenaphthene-d10	164	9.227	9.226	(1.000)	704687	40.0000	
	45 Acenaphthene	154	9.278	9.278	(1.006)	1426856	70.3823	70.3823
	46 2,4-Dinitrophenol	184	9.351	9.350	(1.013)	259579	73.5762	73.5761
	47 4-Nitrophenol	109	9.444	9.443	(1.024)	216327	74.2321	74.2321
	48 Dibenzofuran	168	9.465	9.464	(1.026)	2055734	69.7459	69.7458
	49 Diethylphthalate	149	9.817	9.816	(1.064)	1630167	72.6628	72.6628
	50 4-Chlorophenyl-phenylether	204	9.879	9.878	(1.071)	734069	58.9124	58.9124
	51 Fluorene	166	9.889	9.888	(1.072)	1542208	65.9601	65.9601
	52 2,4-Dinitrotoluene	165	9.537	9.536	(1.034)	511980	68.2928	68.2928
	53 4-Nitroaniline	138	10.013	10.012	(1.085)	170827	37.3876	37.3876
	54 4,6-Dinitro-2-methylphenol	198	10.055	10.054	(0.911)	392520	82.8662	82.8662
	55 N-Nitrosodiphenylamine	169	10.055	10.054	(0.911)	1139890	69.1416	69.1416
	56 Azobenzene	77	10.075	10.074	(0.913)	1797437	67.2478	67.2477
$	57 2,4,6-Tribromophenol	330	10.220	10.219	(1.108)	328486	68.2559	68.2558
	58 4-Bromophenyl-phenylether	248	10.469	10.468	(0.948)	587464	72.1067	72.1067
	59 Hexachlorobenzene	284	10.665	10.664	(0.966)	605331	68.4357	68.4357
	60 Pentachlorophenol	266	10.893	10.892	(0.987)	388493	73.0091	73.0091
*	61 Phenanthrene-d10	188	11.038	11.037	(1.000)	1259353	40.0000	
	62 Phenanthrene	178	11.069	11.068	(1.003)	2542757	73.0514	73.0513
	63 Anthracene	178	11.131	11.130	(1.008)	2506979	70.4112	70.4111
	64 Carbazole	167	11.317	11.327	(1.025)	1018286	40.7105	40.7105
	65 Di-n-butylphthalate	149	11.783	11.782	(1.068)	2677458	68.5047	68.5046
	66 Fluoranthene	202	12.539	12.538	(1.136)	2712713	67.7104	67.7104
	67 Benzidine	184	12.704	12.693	(0.887)	11794	10.1296	10.1295
	68 Pyrene	202	12.818	12.817	(0.895)	2649133	66.3335	66.3335
$	69 Terphenyl-d14	244	13.004	13.004	(0.908)	2054580	66.1898	66.1898
	70 Butylbenzylphthalate	149	13.625	13.625	(0.951)	1224094	71.7069	71.7069
	71 bis(2-Ethylhexyl)phthalate	149	14.340	14.339	(1.001)	1551925	66.0148	66.0148
	72 3,3'-Dichlorobenzidine	252	14.298	14.297	(0.998)	770067	65.6194	65.6193
	73 Benzo(a)anthracene	228	14.309	14.308	(0.999)	2763679	72.4072	72.4071
*	74 Chrysene-d12	240	14.329	14.328	(1.000)	1162841	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU10.D
Report Date: 31-Aug-2004 09:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	14.381	14.370	(1.004)	2670190	69.4979	69.4979
76 Di-n-octylphthalate	149	15.250	15.250	(0.908)	2990318	73.2158	73.2157
77 Benzo(b)fluoranthene	252	16.058	16.057	(0.956)	4240020	77.2870	77.2869(A)
78 Benzo(k)fluoranthene	252	16.099	16.088	(0.959)	2241659	65.0859	65.0859(A)
79 Benzo(a)pyrene	252	16.689	16.678	(0.994)	2607805	78.6498	78.6497
* 80 Perylene-d12	264	16.793	16.781	(1.000)	975814	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.484	19.452	(1.160)	2967934	74.2850	74.2849
82 Dibenz(a,h)anthracene	278	19.494	19.483	(1.161)	2631252	72.0808	72.0807
83 Benzo(g,h,i)perylene	276	20.167	20.155	(1.201)	2147570	69.4692	69.4691

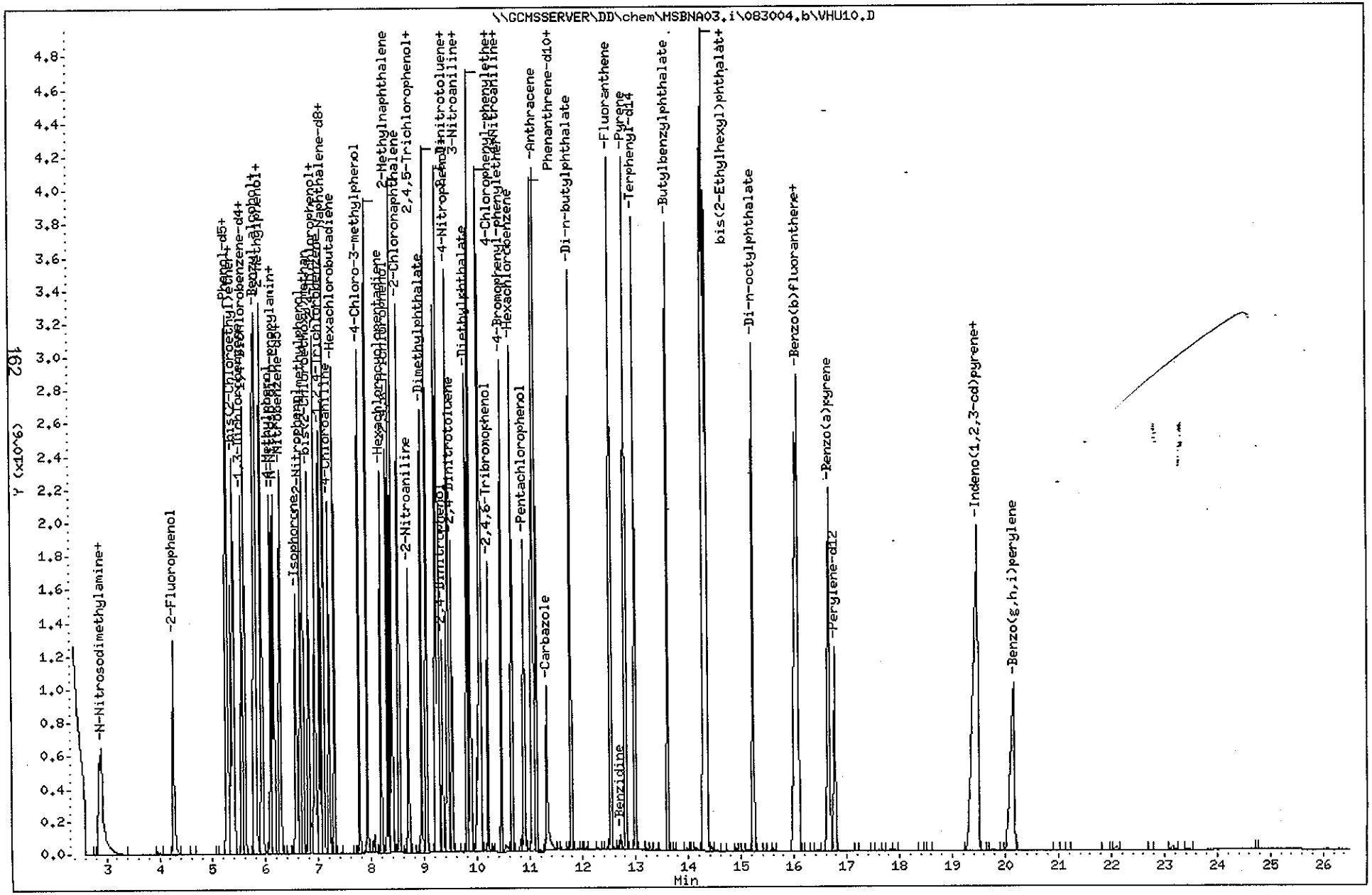
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083004.b\VHU10.D
Date : 30-AUG-2004 19:42
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,04WS1163
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA03.i

Operator: BVD
Column diameter: 0.25



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524352153002
Calnum : 524350774002
Standards: 04WS1380

Run Name :
Filename : vhv02
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 13:31
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.7798	0.7549	80.00000	77.44880	ng	-3	30	0.0500	
Pyridine	1.4725	1.4688	80.00000	79.79860	ng	0	30	0.0500	
Phenol	1.9699	1.8824	80.00000	76.44560	ng	-4	20	0.0500	
Aniline	0.6866	0.4866	80.00000	56.69780	ng	-29	30	0.0500	!c- m r
bis(2-Chloroethyl)ether	1.0912	1.0404	80.00000	76.28000	ng	-5	30	0.0500	
2-Chlorophenol	1.3171	1.3228	80.00000	80.34540	ng	0	30	0.0500	
1,3-Dichlorobenzene	1.5568	1.5684	80.00000	80.59720	ng	1	30	0.0500	
1,4-Dichlorobenzene	1.6240	1.6039	80.00000	79.01000	ng	-1	20	0.0500	
Benzyl alcohol	0.9686	0.9841	80.00000	81.28130	ng	2	30	0.0500	
1,2-Dichlorobenzene	1.4870	1.5103	80.00000	81.25370	ng	2	30	0.0500	
2-Methylphenol	1.1079	1.1403	80.00000	82.33680	ng	3	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9471	1.8601	80.00000	76.42440	ng	-4	30	0.0500	
4-Methylphenol	1.6919	1.6859	80.00000	79.71440	ng	0	30	0.0500	
N-Nitroso-di-n-propylamine	0.9128	0.9348	80.00000	81.93100	ng	2	30	0.0500	
Hexachloroethane	0.5850	0.6201	80.00000	84.80230	ng	6	30	0.0500	
Nitrobenzene	0.4872	0.4808	80.00000	78.94750	ng	-1	30	0.0500	
Isophorone	0.8498	0.8427	80.00000	79.33590	ng	-1	30	0.0500	
2-Nitrophenol	0.2283	0.2270	80.00000	79.57750	ng	-1	20	0.0500	
2,4-Dimethylphenol	0.2810	0.3030	80.00000	86.27690	ng	8	30	0.0500	
bis(2-Chloroethoxy)methane	0.5097	0.5051	80.00000	79.27020	ng	-1	30	0.0500	
Benzoic acid	0.1724	0.1986	80.00000	80.36410	ng	0	40	0.0500	
2,4-Dichlorophenol	0.3548	0.3601	80.00000	81.19290	ng	1	20	0.0500	
1,2,4-Trichlorobenzene	0.4106	0.4227	80.00000	82.36040	ng	3	30	0.0500	
Naphthalene	1.1337	1.2327	80.00000	86.98590	ng	9	30	0.0500	
4-Chloroaniline	0.4444	0.4839	80.00000	87.10630	ng	9	30	0.0500	
Hexachlorobutadiene	0.2451	0.2562	80.00000	83.62390	ng	5	20	0.0500	
4-Chloro-3-methylphenol	0.3721	0.3947	80.00000	84.85470	ng	6	20	0.0500	
2-Methylnaphthalene	0.7872	0.8129	80.00000	82.61410	ng	3	30	0.0500	
Hexachlorocyclopentadiene	0.3091	0.3415	80.00000	81.94890	ng	2	40	0.0500	
2,4,6-Trichlorophenol	0.4321	0.4547	80.00000	84.18850	ng	5	20	0.0500	
2,4,5-Trichlorophenol	0.4411	0.4585	80.00000	83.16850	ng	4	30	0.0500	
2-Chloronaphthalene	1.1391	1.2229	80.00000	85.88710	ng	7	30	0.0500	
2-Nitroaniline	0.4146	0.3962	80.00000	76.44680	ng	-4	30	0.0500	
Dimethylphthalate	1.3656	1.3561	80.00000	79.44080	ng	-1	30	0.0500	
2,6-Dinitrotoluene	0.3440	0.3631	80.00000	84.43340	ng	6	30	0.0500	
Acenaphthylene	1.8251	1.8974	80.00000	83.17220	ng	4	30	0.0500	
3-Nitroaniline	0.3245	0.3733	80.00000	92.02770	ng	15	30	0.0500	
Acenaphthene	1.1499	1.1160	80.00000	77.63670	ng	-3	20	0.0500	
2,4-Dinitrophenol	0.1823	0.2009	80.00000	79.35190	ng	-1	40	0.0500	
4-Nitrophenol	0.1654	0.1692	80.00000	81.82510	ng	2	40	0.0500	
Dibenzofuran	1.6731	1.7509	80.00000	83.72030	ng	5	30	0.0500	
2,4-Dinitrotoluene	0.4255	0.4234	80.00000	79.58920	ng	-1	30	0.0500	
Diethylphthalate	1.2735	1.3544	80.00000	85.08700	ng	6	30	0.0500	
Fluorene	1.3272	1.3365	80.00000	80.56260	ng	1	30	0.0500	
4-Chlorophenyl-phenylether	0.7073	0.6342	80.00000	71.72920	ng	-10	40	0.0500	
4-Nitroaniline	0.2594	0.2559	80.00000	78.94910	ng	-1	30	0.0500	

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

08/31

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 524352153002
Calnum : 524350774002
Standards: 04WS1380

Run Name :
Filename : vhv02
Caldate : 30-AUG-2004

IDF : 1.0
Injected : 31-AUG-2004 13:31
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1505	0.1687	80.00000	89.71240	ng	12	30	0.0500	
N-Nitrosodiphenylamine	0.5236	0.5818	80.00000	88.88640	ng	11	20	0.0500	
Azobenzene	0.8490	0.8794	80.00000	82.86860	ng	4	30	0.0500	
4-Bromophenyl-phenylether	0.2588	0.2886	80.00000	89.23660	ng	12	30	0.0500	
Hexachlorobenzene	0.2809	0.3057	80.00000	87.05380	ng	9	30	0.0500	
Pentachlorophenol	0.1502	0.1698	80.00000	79.34230	ng	-1	20	0.0500	
Phenanthrene	1.1056	1.1805	80.00000	85.42330	ng	7	30	0.0500	
Anthracene	1.1309	1.1606	80.00000	82.10380	ng	3	30	0.0500	
Carbazole	0.7945	0.8115	80.00000	81.71550	ng	2	30	0.0500	
Di-n-butylphthalate	1.2414	1.3130	80.00000	84.61450	ng	6	30	0.0500	
Fluoranthene	1.2725	1.2847	80.00000	80.76640	ng	1	20	0.0500	
Benzidine	0.0401	0.0148	80.00000	29.47150	ng	-63	40	0.0500	c- crf
Pyrene	1.3738	1.3857	80.00000	80.69440	ng	1	30	0.0500	
Butylbenzylphthalate	0.5872	0.5837	80.00000	79.51760	ng	-1	30	0.0500	
3,3'-Dichlorobenzidine	0.4037	0.4101	80.00000	81.27800	ng	2	40	0.0500	
Benzo(a)anthracene	1.3129	1.2851	80.00000	78.30270	ng	-2	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.8087	0.8047	80.00000	79.60890	ng	0	30	0.0500	
Chrysene	1.3216	1.3428	80.00000	81.28220	ng	2	30	0.0500	
Di-n-octylphthalate	1.6742	1.7316	80.00000	82.74440	ng	3	20	0.0500	
Benzo(b)fluoranthene	1.9253	2.5378	80.00000	86.92000	ng	9	30	0.0500	
Benzo(k)fluoranthene	1.4118	1.2229	80.00000	69.29530	ng	-13	30	0.0500	
Benzo(a)pyrene	1.3592	1.5178	80.00000	89.33690	ng	12	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.6377	1.7351	80.00000	84.75620	ng	6	30	0.0500	
Dibenz(a,h)anthracene	1.3649	1.4602	80.00000	77.67420	ng	-3	30	0.0500	
Benzo(g,h,i)perylene	1.2672	1.2872	80.00000	81.26510	ng	2	30	0.0500	
2-Fluorophenol	1.2515	1.2455	80.00000	79.61610	ng	0	30	0.0500	
Phenol-d5	1.7481	1.7236	80.00000	78.88080	ng	-1	30	0.0500	
Nitrobenzene-d5	0.4925	0.4905	80.00000	79.67330	ng	0	30	0.0500	
2-Fluorobiphenyl	1.3598	1.3694	80.00000	80.56280	ng	1	30	0.0500	
2,4,6-Tribromophenol	0.2505	0.2765	80.00000	80.09040	ng	0	30	0.0500	
Terphenyl-d14	1.0678	1.0353	80.00000	77.56920	ng	-3	30	0.0500	

8/31

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV02.D
Report Date: 31-Aug-2004 14:03

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV02.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 31-AUG-2004 13:31 MS Autotune Date: 14-JAN-2002 17:05
Operator : BVD Inst ID: MSBNA03.i
Smp Info : CCV,04WS1380
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\6PTBNA3.m
Meth Date : 31-Aug-2004 14:26 tapsvc Quant Type: ISTD
Cal Date : 30-AUG-2004 19:05 Cal File: VHU09.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	2.910	2.910	(0.521)	374608	80.0000	77.4487
2 Pyridine	79	2.859	2.859	(0.511)	728822	80.0000	79.7986
$ 3 2-Fluorophenol	112	4.256	4.256	(0.761)	618025	80.0000	79.6161
$ 4 Phenol-d5	99	5.260	5.260	(0.941)	855291	80.0000	78.8807
5 Phenol	94	5.270	5.270	(0.943)	934082	80.0000	76.4456
6 Aniline	66	5.291	5.291	(0.946)	241478	80.0000	56.6978(M)
7 bis(2-Chloroethyl)ether	63	5.353	5.353	(0.957)	516275	80.0000	76.2799
8 2-Chlorophenol	128	5.405	5.405	(0.967)	656392	80.0000	80.3454
9 1,3-Dichlorobenzene	146	5.550	5.550	(0.993)	778276	80.0000	80.5971
* 10 1,4-Dichlorobenzene-d4	152	5.591	5.591	(1.000)	248109	40.0000	
11 1,4-Dichlorobenzene	146	5.612	5.612	(1.004)	795865	80.0000	79.0099
12 Benzyl alcohol	108	5.788	5.788	(1.035)	488329	80.0000	81.2812
13 2-Methylphenol	107	5.922	5.922	(1.059)	565829	80.0000	82.3368
14 1,2-Dichlorobenzene	146	5.819	5.819	(1.041)	749436	80.0000	81.2536
15 bis(2-Chloroisopropyl) ether	45	5.943	5.943	(1.063)	923005	80.0000	76.4243
16 4-Methylphenol	107	6.098	6.098	(1.091)	836578	80.0000	79.7144
17 N-Nitroso-di-n-propylamine	70	6.140	6.140	(1.098)	463864	80.0000	81.9310
18 Hexachloroethane	117	6.160	6.160	(1.102)	307694	80.0000	84.8022
$ 19 Nitrobenzene-d5	82	6.274	6.274	(0.886)	834522	80.0000	79.6733
20 Nitrobenzene	77	6.295	6.295	(0.889)	817976	80.0000	78.9474

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV02.D
Report Date: 31-Aug-2004 14:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.564	6.564	(0.927)	1433821	80.0000	79.3358
	22 2,4-Dimethylphenol	122	6.709	6.709	(0.947)	515540	80.0000	86.2769
	23 2-Nitrophenol	139	6.657	6.657	(0.940)	386308	80.0000	79.5774
	24 bis(2-Chloroethoxy)methane	93	6.812	6.812	(0.962)	859368	80.0000	79.2702
	25 Benzoic acid	122	6.937	6.937	(0.980)	337947	80.0000	80.3640
	26 2,4-Dichlorophenol	162	6.937	6.937	(0.980)	612679	80.0000	81.1928
	27 1,2,4-Trichlorobenzene	180	7.030	7.030	(0.993)	719160	80.0000	82.3603
*	28 Naphthalene-d8	136	7.081	7.081	(1.000)	850720	40.0000	
	29 Naphthalene	128	7.112	7.112	(1.004)	2097372	80.0000	86.9858
	30 4-Chloroaniline	127	7.195	7.195	(1.016)	823373	80.0000	87.1062
	31 Hexachlorobutadiene	225	7.309	7.309	(1.032)	435828	80.0000	83.6239
	32 4-Chloro-3-methylphenol	107	7.775	7.775	(1.098)	671611	80.0000	84.8547
	33 2-Methylnaphthalene	142	7.930	7.930	(1.120)	1383133	80.0000	82.6140
	34 Hexachlorocyclopentadiene	237	8.189	8.189	(0.888)	389548	80.0000	81.9488
	35 2,4,6-Trichlorophenol	196	8.313	8.313	(0.901)	518685	80.0000	84.1885
	36 2,4,5-Trichlorophenol	196	8.354	8.354	(0.906)	523047	80.0000	83.1685
$	37 2-Fluorobiphenyl	172	8.396	8.396	(0.910)	1562094	80.0000	80.5628
	38 2-Chloronaphthalene	162	8.530	8.530	(0.925)	1394985	80.0000	85.8871
	39 2-Nitroaniline	65	8.706	8.706	(0.944)	451938	80.0000	76.4467
	40 Dimethylphthalate	163	8.955	8.955	(0.971)	1546873	80.0000	79.4407
	41 2,6-Dinitrotoluene	165	9.058	9.058	(0.982)	414186	80.0000	84.4333
	42 Acenaphthylene	152	9.038	9.038	(0.980)	2164438	80.0000	83.1722
	43 3-Nitroaniline	138	9.234	9.234	(1.001)	425869	80.0000	92.0276
*	44 Acenaphthene-d10	164	9.224	9.224	(1.000)	570359	40.0000	
	45 Acenaphthene	154	9.276	9.276	(1.006)	1273009	80.0000	77.6367
	46 2,4-Dinitrophenol	184	9.348	9.348	(1.013)	229183	80.0000	79.3519
	47 4-Nitrophenol	109	9.441	9.441	(1.024)	193000	80.0000	81.8250
	48 Dibenzofuran	168	9.462	9.462	(1.026)	1997244	80.0000	83.7202
	49 Diethylphthalate	149	9.814	9.814	(1.064)	1545023	80.0000	85.0869
	50 4-Chlorophenyl-phenylether	204	9.876	9.876	(1.071)	723399	80.0000	71.7292
	51 Fluorene	166	9.886	9.886	(1.072)	1524569	80.0000	80.5626
	52 2,4-Dinitrotoluene	165	9.534	9.534	(1.034)	482930	80.0000	79.5892
	53 4-Nitroaniline	138	10.021	10.021	(1.086)	291963	80.0000	78.9491
	54 4,6-Dinitro-2-methylphenol	198	10.052	10.052	(0.911)	342434	80.0000	89.7123
	55 N-Nitrosodiphenylamine	169	10.062	10.062	(0.912)	1180861	80.0000	88.8863
	56 Azobenzene	77	10.073	10.073	(0.913)	1784868	80.0000	82.8686
$	57 2,4,6-Tribromophenol	330	10.218	10.218	(1.108)	315386	80.0000	80.0904
	58 4-Bromophenyl-phenylether	248	10.476	10.476	(0.949)	585853	80.0000	89.2365
	59 Hexachlorobenzene	284	10.663	10.663	(0.966)	620495	80.0000	87.0538
	60 Pentachlorophenol	266	10.890	10.890	(0.987)	344700	80.0000	79.3422
*	61 Phenanthrene-d10	188	11.035	11.035	(1.000)	1014817	40.0000	
	62 Phenanthrene	178	11.066	11.066	(1.003)	2396035	80.0000	85.4233
	63 Anthracene	178	11.128	11.128	(1.008)	2355660	80.0000	82.1037
	64 Carbazole	167	11.325	11.325	(1.026)	1647054	80.0000	81.7154
	65 Di-n-butylphthalate	149	11.780	11.780	(1.068)	2664941	80.0000	84.6145
	66 Fluoranthene	202	12.536	12.536	(1.136)	2607471	80.0000	80.7664
	67 Benzidine	184	12.691	12.691	(0.886)	28870	80.0000	29.4715
	68 Pyrene	202	12.815	12.815	(0.895)	2711364	80.0000	80.6943
$	69 Terphenyl-d14	244	13.002	13.002	(0.908)	2025794	80.0000	77.5692
	70 Butylbenzylphthalate	149	13.623	13.623	(0.951)	1142065	80.0000	79.5175
	71 bis(2-Ethylhexyl)phthalate	149	14.337	14.337	(1.001)	1574581	80.0000	79.6089
	72 3,3'-Dichlorobenzidine	252	14.295	14.295	(0.998)	802497	80.0000	81.2780
	73 Benzo(a)anthracene	228	14.306	14.306	(0.999)	2514530	80.0000	78.3027
*	74 Chrysene-d12	240	14.327	14.327	(1.000)	978350	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\VHV02.D
Report Date: 31-Aug-2004 14:03

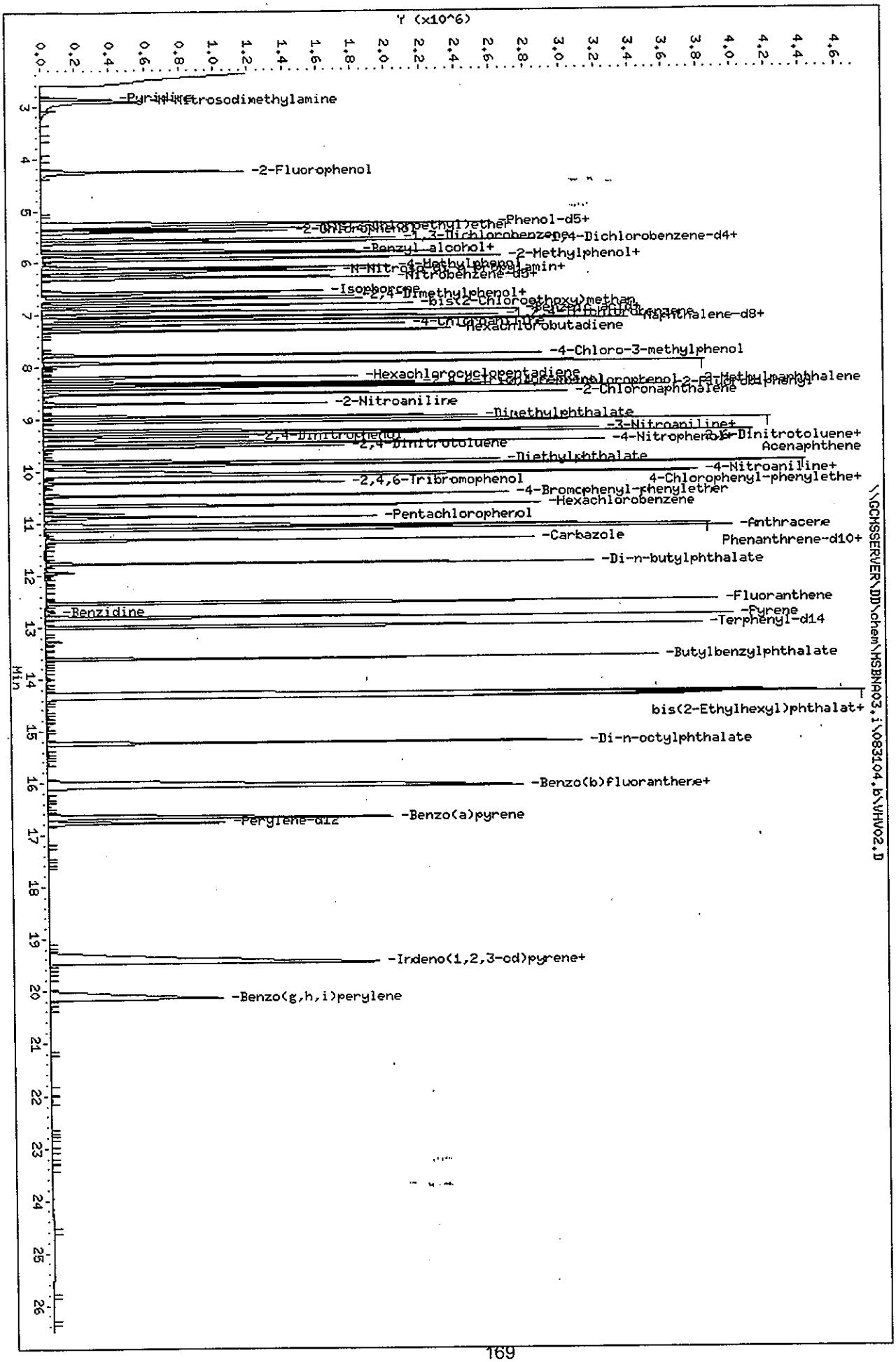
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	14.378	14.378	(1.004)	2627481	80.0000	81.2821
76 Di-n-octylphthalate	149	15.248	15.248	(0.909)	2861800	80.0000	82.7443
77 Benzo(b)fluoranthene	252	16.055	16.055	(0.957)	4194121	80.0000	86.9200(A)
78 Benzo(k)fluoranthene	252	16.096	16.096	(0.959)	2021037	80.0000	69.2953(A)
79 Benzo(a)pyrene	252	16.686	16.686	(0.994)	2508398	80.0000	89.3368
* 80 Perylene-d12	264	16.780	16.780	(1.000)	826333	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	19.460	19.460	(1.160)	2867563	80.0000	84.7562
82 Dibenz(a,h)anthracene	278	19.481	19.481	(1.161)	2413207	80.0000	77.6742
83 Benzo(g,h,i)perylene	276	20.164	20.164	(1.202)	2127392	80.0000	81.2651

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\083104.b\WHV02.D
Date : 31-AUG-2004 13:31
Client ID: CURTIS&TOMPKINS
Sample Info: CCV,04WS1380
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA03.i
Operator: BVD
Column diameter: 0.25



MOISTURE DATA

Percent Moisture Summary Report

Batch: 94233
Date: 09/01/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174320-001	15.7365	22.1835	22.1152	99	1
174320-002	11.0019	18.4589	16.9899	80	20
174320-003	10.9923	18.8447	18.2579	93	7
174320-004	11.1530	18.4654	18.2985	98	2
174320-005	15.5536	22.5951	22.3934	97	3
174320-006	11.0824	18.9913	18.9340	99	1
174354-001	15.5452	22.7000	21.7064	86	14
QC263193	11.1624	18.5824	18.4993	99	1
of 174320-001			RPD:	0.1%	5.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 94233
Date Started: 31-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
174320-001		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-002		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-003		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-004		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-005		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-006		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174354-001		Tan Phung Associat	Soil	MOISTURE	01-SEP-2004
QC263193	SDUP of 174320-001		Soil	MOISTURE	

PROJECT MOISTURE

8/31/04

#94233

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	B119	11.0467	—	11.0470	
174320-1	A	10	15.7265	22.1835	22.1152	
DUP 1		3	11.1624	18.5824	18.4993	
2		B113	11.0014	18.4589	16.9899	
3		2	10.9923	18.8447	18.2579	
4		B106	11.1930	18.4654	18.2985	
5		18X	15.5532	22.5951	~~22.3524~~ 22.3934	
6		61	11.0420	18.9913	18.9348	
174354-1	A	3L	15.5452	22.7000	21.7064	

OVEN TEMP: 105°C
TIME IN: 5:30 P.M.
TIME OUT: 10:20 A.M. ON: 9/1/04

Continued on Page

Read and Understood By

R. Manning — Signed
8/31/04 — Date
Signed — Date 9/01/04

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 174631

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX125[0.5]	174631-001
BB3EX124[0.5]	174631-002
BB3EX123[0.5]	174631-003
BB3EX122[0.5]	174631-004
BB3EX127[0.5]	174631-005
BB3EX126[0.5]	174631-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Operations Manager Date: 9/30/04

Signature: _____ Project Manager Date: 9/29/04

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	174631
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	09/14/04
Samples Received:	09/14/04

This hardcopy data package contains sample and QC results for six soil samples, requested for the above referenced project on 09/14/04. The samples were received cold and intact.

Pesticides (EPA 8081A):
High ICAL percent RSD (relative standard deviation) was observed for 4,4'-DDT in the calibration analyzed 09/02/04 21:44; average ICAL %RSD met method requirements, and affected data was qualified with "b". High response was observed for methoxychlor in the ICV analyzed 09/03/04 02:16; average ICV drift met method requirements, and this analyte was not detected in the associated samples. High response was observed for 4,4'-DDT in the CCV analyzed 09/16/04 12:22; average CCV drift met method requirements. Low surrogate recoveries were observed for TCMX in BB3EX124[0.5] (lab # 174631-002) and the method blank for batch 94601. No other analytical problems were encountered.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
High response was observed for copper in the serial dilution samples analyzed 09/15/04 09:16 and 09:24. No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

174631

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reiner
Samplers: Mike Chmielski
Recorder (Signature Required): [signature]

Turnaround Time: 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	metals	Silica gel clean-up	Hold	Remarks
-1 BB3EX125[05]	9/14/04	1316		X						1		X	X	X			sand
-2 BB3EX124[05]		1319		X						1		X	X	X			sand
-3 BB3EX123[05]		1324		X						1		X	X	X			sand
-4 BB3EX122[05]		1328		X						1				X			colmn
-5 BB3EX127[05]		1335		X						1		X	X	X			sand
-6 BB3EX126[05]	9/14/04	1338		X						1		X	X	X			sand

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9/14/04	1505	[signature]	9-14-04	1505
[signature]	9-14-04	3:45	Javanna Curtis	9-14-04	3:45
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [X] Private Courier (Co. Name) Ward

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002240

Received [ ] On Ice [ ] Cold [ ] Ambient [ ] Intact

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174631 Date Received: 9/14/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio - Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 9/14/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 9/14/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX125[0.5]	Batch#:	94601
Lab ID:	174631-001	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.51
Endosulfan I	ND	1.7	0.90
Dieldrin	ND	3.3	0.65
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.97
Endosulfan sulfate	ND	3.3	0.79
4,4'-DDD	ND	3.3	0.68
Endrin ketone	ND	3.3	0.83
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.9
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.48
Methoxychlor	ND	17	2.7
Toxaphene	ND	61	12

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX124[0.5]	Batch#:	94601
Lab ID:	174631-002	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.32
beta-BHC	ND	1.7	0.41
gamma-BHC	ND	1.7	0.36
delta-BHC	ND	1.7	0.33
Heptachlor	ND	1.7	0.48
Aldrin	ND	1.7	0.40
Heptachlor epoxide	ND	1.7	0.49
Endosulfan I	ND	1.7	0.89
Dieldrin	ND	3.3	0.64
4,4'-DDE	ND	3.3	0.53
Endrin	ND	3.3	0.67
Endosulfan II	ND	3.3	0.95
Endosulfan sulfate	ND	3.3	0.78
4,4'-DDD	ND	3.3	0.68
Endrin ketone	ND	3.3	0.82
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.7
alpha-Chlordane	ND	1.7	0.49
gamma-Chlordane	ND	1.7	0.46
Methoxychlor	ND	17	2.6
Toxaphene	ND	60	12

Surrogate	%REC	Limits
TCMX	62 *	65-135
Decachlorobiphenyl	75	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX123[0.5]	Batch#:	94601
Lab ID:	174631-003	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.34
beta-BHC	ND	1.8	0.44
gamma-BHC	ND	1.8	0.39
delta-BHC	ND	1.8	0.35
Heptachlor	ND	1.8	0.51
Aldrin	ND	1.8	0.43
Heptachlor epoxide	ND	1.8	0.53
Endosulfan I	ND	1.8	0.94
Dieldrin	ND	3.5	0.68
4,4'-DDE	ND	3.5	0.56
Endrin	ND	3.5	0.71
Endosulfan II	ND	3.5	1.0
Endosulfan sulfate	ND	3.5	0.82
4,4'-DDD	ND	3.5	0.72
Endrin ketone	ND	3.5	0.86
4,4'-DDT	ND	3.5	1.3
Chlordane (Technical)	ND	32	4.0
alpha-Chlordane	ND	1.8	0.53
gamma-Chlordane	ND	1.8	0.50
Methoxychlor	ND	18	2.8
Toxaphene	ND	63	13

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX127[0.5]	Batch#:	94601
Lab ID:	174631-005	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.51
Endosulfan I	ND	1.7	0.91
Dieldrin	ND	3.3	0.65
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.97
Endosulfan sulfate	ND	3.3	0.79
4,4'-DDD	ND	3.3	0.69
Endrin ketone	ND	3.3	0.84
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.8
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND	17	2.7
Toxaphene	ND	61	12

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	87	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX126[0.5]	Batch#:	94601
Lab ID:	174631-006	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.43
gamma-BHC	ND	1.7	0.38
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.50
Aldrin	ND	1.7	0.42
Heptachlor epoxide	ND	1.7	0.52
Endosulfan I	ND	1.7	0.92
Dieldrin	ND	3.4	0.66
4,4'-DDE	ND	3.4	0.55
Endrin	ND	3.4	0.69
Endosulfan II	ND	3.4	0.98
Endosulfan sulfate	ND	3.4	0.80
4,4'-DDD	ND	3.4	0.70
Endrin ketone	ND	3.4	0.84
4,4'-DDT	ND	3.4	1.3
Chlordane (Technical)	ND	31	4.0
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.49
Methoxychlor	ND	17	2.7
Toxaphene	ND	62	13

Surrogate	%REC	Limits
TCMX	86	65-135
Decachlorobiphenyl	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC264661	Batch#:	94601
Matrix:	Soil	Prepared:	09/14/04
Units:	ug/Kg	Analyzed:	09/15/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.34
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.35
Heptachlor	ND	1.7	0.50
Aldrin	ND	1.7	0.42
Heptachlor epoxide	ND	1.7	0.52
Endosulfan I	ND	1.7	0.91
Dieldrin	ND	3.4	0.66
4,4'-DDE	ND	3.4	0.55
Endrin	ND	3.4	0.69
Endosulfan II	ND	3.4	0.98
Endosulfan sulfate	ND	3.4	0.80
4,4'-DDD	ND	3.4	0.70
Endrin ketone	ND	3.4	0.84
4,4'-DDT	ND	3.4	1.2
Chlordane (Technical)	ND	31	3.9
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.48
Methoxychlor	ND	17	2.7
Toxaphene	ND	62	13

Surrogate	%REC	Limits
TCMX	60 *	65-135
Decachlorobiphenyl	66	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC264662	Batch#:	94601
Matrix:	Soil	Prepared:	09/14/04
Units:	ug/Kg	Analyzed:	09/15/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	17.06	14.79	87	65-135
Heptachlor	17.06	16.06	94	65-135
Aldrin	17.06	15.28	90	65-135
Dieldrin	17.06	15.61	91	65-135
Endrin	17.06	16.34	96	65-135
4,4'-DDT	17.06	16.88	99	65-135

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	78	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	94601
MSS Lab ID:	174582-001	Sampled:	09/09/04
Matrix:	Soil	Received:	09/10/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/16/04
Diln Fac:	1.000		

Type: MS
Lab ID: QC264663

Moisture: 31%
Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5217	23.95	21.27	89	65-135
Heptachlor	<0.6957	23.95	18.11	76	65-135
Aldrin	<0.5797	23.95	21.10	88	65-135
Dieldrin	1.301	23.95	21.77	85	65-135
Endrin	<0.9565	23.95	21.37	89	65-135
4,4'-DDT	3.846	23.95	25.81 #'b	92	65-135

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	92	65-135

Type: MSD
Lab ID: QC264664

Moisture: 31%
Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	24.12	20.96	87	65-135	2	35
Heptachlor	24.12	18.06	75	65-135	1	35
Aldrin	24.12	20.19	84	65-135	5	35
Dieldrin	24.12	21.97	86	65-135	0	35
Endrin	24.12	21.81	90	65-135	1	35
4,4'-DDT	24.12	26.95 # b	96	65-135	4	35

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	95	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
b= See narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234355483001 Name: Type: (normal) Date: 02-SEP-2004 21:44 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	246_010	234355483010	level_1	02-SEP-2004 21:44	04WS1628
2	246_011	234355483011	level_2	02-SEP-2004 22:14	04WS1629
3	246_012	234355483012	level_3	02-SEP-2004 22:44	04WS1630
4	246_013	234355483013	level_4	02-SEP-2004 23:14	04WS1632
5	246_014	234355483014	level_5	02-SEP-2004 23:45	04WS1633
6	246_015	234355483015	level_6	03-SEP-2004 00:15	04WS1634
7	246_016	234355483016	level_7	03-SEP-2004 00:45	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	6091.2	6524.4	7455.6	9665.6	10681			AVRG	R		1.237E-4		pg	8083.5	25	0.995	20	rsd ***
gamma-BHC	A	5911.3	6481.0	7273.8	9075.0	9961.0			AVRG	R		1.292E-4		pg	7740.4	22	0.995	20	rsd ***
beta-BHC	A	5063.7	4615.2	4473.1	4818.7	5141.2	5154.2	5194.2	AVRG	R		2.031E-4		pg	4922.9	6	0.995	20	
delta-BHC	A	7329.0	6366.4	6620.5	8116.9	9108.8	9834.4	10332	AVRG	R		1.213E-4		pg	8243.9	19	0.995	20	
Heptachlor	A	6672.4	6829.6	6973.6	7803.0	8399.5	8377.8	8303.5	AVRG	R		1.312E-4		pg	7622.8	10	0.995	20	
Aldrin	A	6968.4	6984.0	7227.8	8323.5	8984.1	9095.0	9048.3	AVRG	R		1.236E-4		pg	8090.1	12	0.995	20	
Heptachlor epoxide	A	8694.3	8378.3	8163.6	8558.0	9007.0	8527.4	8130.4	AVRG	R		1.177E-4		pg	8494.2	4	0.995	20	
gamma-Chlordane	A	8579.0	8349.7	8206.6	8805.3	9368.1	9101.3	9010.4	AVRG	R		1.139E-4		pg	8777.2	5	0.995	20	
alpha-Chlordane	A	8679.1	8524.3	8387.9	8897.6	9456.7	9069.2	8902.6	AVRG	R		1.131E-4		pg	8845.3	4	0.995	20	
4,4'-DDE	A	5111.8	5620.7	6122.0	7007.5	7746.0	7650.5	7687.6	AVRG	R		1.491E-4		pg	6706.6	16	0.995	20	
Endosulfan I	A	9011.8	9005.9	8805.9	9258.7	9731.9	9221.8	8802.3	AVRG	R		1.097E-4		pg	9119.8	4	0.995	20	
Dieldrin	A	7274.7	7456.3	7567.1	7924.6	8472.8	7869.1	7494.3	AVRG	R		1.295E-4		pg	7722.7	5	0.995	20	
Endrin	A	5732.3	5928.5	6089.3	6413.8	6909.7	6380.0	6160.0	AVRG	R		1.605E-4		pg	6230.5	6	0.995	20	
4,4'-DDD	A	3722.6	3905.4	4263.0	4905.5	5558.0	5434.7	5574.5	AVRG	R		2.098E-4		pg	4766.3	17	0.995	20	
Endosulfan II	A	7793.0	7493.3	7359.5	7392.3	7834.9	7072.0	6708.4	AVRG	R		1.355E-4		pg	7379.1	5	0.995	20	
4,4'-DDT	A	2022.5	2629.7	3036.7	3609.1	4273.0			AVRG	R		3.211E-4		pg	3114.2	28	0.995	20	rsd ***
Endrin aldehyde	A	7811.7	6701.3	6115.7	5923.2	6249.0	5665.4	5398.4	AVRG	R		1.596E-4		pg	6266.4	13	0.995	20	
Methoxychlor	A	1610.8	1786.6	1778.0	1758.9	1947.2	1806.9	1874.4	AVRG	R		5.572E-4		pg	1794.7	6	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234355483001 Name: Type: (normal) Date: 02-SEP-2004 21:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	8550.3	7332.2	6735.7	6504.0	6925.4	6246.6	5951.3	AVRG	R		1.451E-4		pg	6892.2	12	0.995	20	
Endrin ketone	A	7384.7	7357.1	7242.7	7214.2	7719.7	6956.7	6651.7	AVRG	R		1.385E-4		pg	7218.1	5	0.995	20	
TCMX	A	8055.0	8153.0	8131.8	8573.8	8915.0	8578.1	8182.4	AVRG	R		1.195E-4		pg	8369.9	4	0.995	20	
Decachlorobiphenyl	A	9756.3	9070.1	8103.0	7186.0	7551.4	6421.0	6076.3	AVRG	R		1.292E-4		pg	7737.7	17	0.995	20	
alpha-BHC	B	33741	33975	34431	37340	39223	38685	37071	AVRG	R		2.751E-5		pg	36352	6	0.995	20	
gamma-BHC	B	32522	31711	31321	33169	34789	33937	33306	AVRG	R		3.034E-5		pg	32965	4	0.995	20	
beta-BHC	B	23706	19527	17332	16667	17108	15910	15468	AVRG	R		5.568E-5		pg	17960	16	0.995	20	
delta-BHC	B	43512	35191	32582	33162	34845	33648	32661	AVRG	R		2.850E-5		pg	35086	11	0.995	20	
Heptachlor	B	23237	21446	20393	20910	21958	20947	20480	AVRG	R		4.686E-5		pg	21339	5	0.995	20	
Aldrin	B	32833	31312	30253	31294	32630	30828	29540	AVRG	R		3.201E-5		pg	31241	4	0.995	20	
Heptachlor epoxide	B	33983	30727	28219	27728	28585	26049	24560	AVRG	R		3.503E-5		pg	28550	11	0.995	20	
gamma-Chlordane	B	36382	33263	31079	30982	32311	30395	29534	AVRG	R		3.126E-5		pg	31992	7	0.995	20	
alpha-Chlordane	B	36400	33255	30682	30338	31536	29424	28665	AVRG	R		3.177E-5		pg	31471	8	0.995	20	
4,4'-DDE	B	27264	27104	26046	26136	27588	25565		AVRG	R		3.757E-5		pg	26617	3	0.995	20	
Endosulfan I	B	33273	30107	27616	26912	27830	25266	23736	AVRG	R		3.595E-5		pg	27820	11	0.995	20	
Dieldrin	B	30117	28751	27045	26586	27540	24988		AVRG	R		3.636E-5		pg	27505	6	0.995	20	
Endrin	B	24469	22965	21389	20898	21908	19822		AVRG	R		4.564E-5		pg	21908	7	0.995	20	
4,4'-DDD	B	17883	17518	16961	16706	17977	16604	15752	AVRG	R		5.863E-5		pg	17057	5	0.995	20	
Endosulfan II	B	30651	26914	24270	22834	23667	21055		AVRG	R		4.016E-5		pg	24899	14	0.995	20	
4,4'-DDT	B	11297	11982	12165	12844	14154	13828	14320	AVRG	R		7.727E-5		pg	12941	9	0.995	20	
Endrin aldehyde	B	26885	21886	18994	17583	18235	16187	15442	AVRG	R		5.177E-5		pg	19316	20	0.995	20	
Methoxychlor	B	6122.5	5792.8	5299.1	5004.6	5418.4	5050.3		AVRG	R		1.836E-4		pg	5447.9	8	0.995	20	
Endosulfan sulfate	B	31338	25107	21562	19873	20724			AVRG	R		4.216E-5		pg	23721	20	0.995	20	
Endrin ketone	B	27983	24603	22036	20583	21672	19392	17795	AVRG	R		4.544E-5		pg	22009	15	0.995	20	
TCMX	B	31287	28585	26507	26209	26628	24917		AVRG	R		3.656E-5		pg	27356	8	0.995	20	
Decachlorobiphenyl	B	24379	20991	18174	16092	17044	14926	14922	AVRG	R		5.532E-5		pg	18075	19	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	11	20	
EPA 8081A	B	22	10	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Calname :
Calnum : 234355483001 Caldate : 02-SEP-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max		
alpha-BHC	A	234355483019	03-SEP-2004	25.000	32.268	pg	**29**	15	v+	***
gamma-BHC	A	234355483019	03-SEP-2004	25.000	31.881	pg	**28**	15	v+	***
beta-BHC	A	234355483019	03-SEP-2004	25.000	25.129	pg	1	15		
delta-BHC	A	234355483019	03-SEP-2004	25.000	27.117	pg	8	15		
Heptachlor	A	234355483019	03-SEP-2004	25.000	28.171	pg	13	15		
Aldrin	A	234355483019	03-SEP-2004	25.000	27.904	pg	12	15		
Heptachlor epoxide	A	234355483019	03-SEP-2004	25.000	25.711	pg	3	15		
gamma-Chlordane	A	234355483019	03-SEP-2004	25.000	25.546	pg	2	15		
alpha-Chlordane	A	234355483019	03-SEP-2004	25.000	26.099	pg	4	15		
4,4'-DDE	A	234355483019	03-SEP-2004	25.000	23.973	pg	-4	15		
Endosulfan I	A	234355483019	03-SEP-2004	25.000	25.212	pg	1	15		
Dieldrin	A	234355483019	03-SEP-2004	25.000	26.013	pg	4	15		
Endrin	A	234355483019	03-SEP-2004	25.000	26.376	pg	6	15		
4,4'-DDD	A	234355483019	03-SEP-2004	25.000	22.115	pg	-12	15		
Endosulfan II	A	234355483019	03-SEP-2004	25.000	25.306	pg	1	15		
4,4'-DDT	A	234355483019	03-SEP-2004	25.000	27.578	pg	10	15		
Methoxychlor	A	234355483019	03-SEP-2004	25.000	24.922	pg	0	15		
Endosulfan sulfate	A	234355483019	03-SEP-2004	25.000	24.263	pg	-3	15		
Endrin ketone	A	234355483019	03-SEP-2004	25.000	24.192	pg	-3	15		
TCMX	A	234355483019	03-SEP-2004	25.000	28.387	pg	14	15		
Decachlorobiphenyl	A	234355483019	03-SEP-2004	25.000	23.503	pg	-6	15		
alpha-BHC	B	234355483019	03-SEP-2004	25.000	26.571	pg	6	15		
gamma-BHC	B	234355483019	03-SEP-2004	25.000	26.416	pg	6	15		
beta-BHC	B	234355483019	03-SEP-2004	25.000	23.444	pg	-6	15		
delta-BHC	B	234355483019	03-SEP-2004	25.000	24.770	pg	-1	15		
Heptachlor	B	234355483019	03-SEP-2004	25.000	26.452	pg	6	15		
Aldrin	B	234355483019	03-SEP-2004	25.000	26.374	pg	5	15		
Heptachlor epoxide	B	234355483019	03-SEP-2004	25.000	24.563	pg	-2	15		
gamma-Chlordane	B	234355483019	03-SEP-2004	25.000	24.320	pg	-3	15		
alpha-Chlordane	B	234355483019	03-SEP-2004	25.000	24.653	pg	-1	15		
4,4'-DDE	B	234355483019	03-SEP-2004	25.000	25.359	pg	1	15		
Endosulfan I	B	234355483019	03-SEP-2004	25.000	24.969	pg	0	15		
Dieldrin	B	234355483019	03-SEP-2004	25.000	25.687	pg	3	15		
Endrin	B	234355483019	03-SEP-2004	25.000	25.690	pg	3	15		
4,4'-DDD	B	234355483019	03-SEP-2004	25.000	24.819	pg	-1	15		
Endosulfan II	B	234355483019	03-SEP-2004	25.000	24.736	pg	-1	15		
4,4'-DDT	B	234355483019	03-SEP-2004	25.000	26.322	pg	5	15		
Methoxychlor	B	234355483019	03-SEP-2004	25.000	29.111	pg	**16**	15	v+	**
Endosulfan sulfate	B	234355483019	03-SEP-2004	25.000	22.591	pg	-10	15		
Endrin ketone	B	234355483019	03-SEP-2004	25.000	24.435	pg	-2	15		
TCMX	B	234355483019	03-SEP-2004	25.000	27.275	pg	9	15		
Decachlorobiphenyl	B	234355483019	03-SEP-2004	25.000	22.580	pg	-10	15		

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	8	15	
EPA 8081A	B	22	5	15	

+=high bias v=ICV

PERFORMANCE EVALUATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234373719003 Run Name: Injected: 15-SEP-2004 12:39
Filename: 259_003 Standard(s): 04WS0930

Analyte	Ch	Area
4,4'-DDT	A	361440.07
4,4'-DDE	A	1894.94
4,4'-DDD	A	38694.01

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	307290.1
Endrin aldehyde	A	7451.57
Endrin ketone	A	22130.09

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1216820.72
4,4'-DDE	B	11035.2
4,4'-DDD	B	96288.27

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1017548.24
Endrin aldehyde	B	25954.13
Endrin ketone	B	45096.97

Endrin Breakdown %: 7
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234373719018 Run Name: Injected: 15-SEP-2004 22:10
Filename: 259_018 Standard(s): 04WS1614

Analyte	Ch	Area
4,4'-DDT	A	434583.67
4,4'-DDE	A	1530.65
4,4'-DDD	A	45795.5

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	345180.51
Endrin aldehyde	A	6017.84
Endrin ketone	A	24056.28

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1623018.5
4,4'-DDE	B	12653.35
4,4'-DDD	B	121384.3

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1193576.94
Endrin aldehyde	B	21798.04
Endrin ketone	B	47542.33

Endrin Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234373719044 Run Name: Injected: 16-SEP-2004 11:19
Filename: 259_044 Standard(s): 04WS1614

Analyte	Ch	Area
4,4'-DDT	A	492945.47
4,4'-DDE	A	1379.52
4,4'-DDD	A	45123.69

4,4'-DDT Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	371014.77
Endrin aldehyde	A	5102
Endrin ketone	A	24290.8

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1626920.01
4,4'-DDE	B	10707.64
4,4'-DDD	B	132668.34

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1217633.42
Endrin aldehyde	B	15244.57
Endrin ketone	B	41675.74

Endrin Breakdown %: 4
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234373719060 Run Name: Injected: 16-SEP-2004 22:30
Filename: 259_060 Standard(s): 04WS1614

Analyte	Ch	Area
4,4'-DDT	A	380113.26
4,4'-DDE	A	1327.1
4,4'-DDD	A	49686.6

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	A	331841.83
Endrin aldehyde	A	6590.56
Endrin ketone	A	23106.5

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1424659.31
4,4'-DDE	B	15606.06
4,4'-DDD	B	148696.52

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1086964.88
Endrin aldehyde	B	14598.54
Endrin ketone	B	48840.99

Endrin Breakdown %: 6
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234373719005
Calnum : 234355483001
Standards: 04WS1632

Run Name : ccv
Filename : 259_005
Caldate : 02-SEP-2004

IDF : 1.0
Injected : 15-SEP-2004 13:40
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8083.5	10308	20.00000	25.50495	pg	28	15	c+ rsd ***
gamma-BHC	A	7740.4	9641.1	20.00000	24.91110	pg	25	15	c+ rsd ***
beta-BHC	A	4922.9	5112.9	20.00000	20.77177	pg	4	15	
delta-BHC	A	8243.9	8743.9	20.00000	21.21298	pg	6	15	
Heptachlor	A	7622.8	7201.9	20.00000	18.89582	pg	-6	15	
Aldrin	A	8090.1	8903.8	20.00000	22.01159	pg	10	15	
Heptachlor epoxide	A	8494.2	9109.6	20.00000	21.44900	pg	7	15	
gamma-Chlordane	A	8777.2	9284.6	20.00000	21.15628	pg	6	15	
alpha-Chlordane	A	8845.3	9403.7	20.00000	21.26253	pg	6	15	
4,4'-DDE	A	6706.6	7931.5	40.00000	47.30618	pg	18	15	c+ ***
Endosulfan I	A	9119.8	9574.7	20.00000	20.99778	pg	5	15	
Dieldrin	A	7722.7	8456.6	40.00000	43.80109	pg	10	15	
Endrin	A	6230.5	6780.1	40.00000	43.52855	pg	9	15	
4,4'-DDD	A	4766.3	5772.4	40.00000	48.44353	pg	21	15	c+ ***
Endosulfan II	A	7379.1	7984.6	40.00000	43.28231	pg	8	15	
4,4'-DDT	A	3114.2	3473.9	40.00000	44.62008	pg	12	15	rsd ***
Endrin aldehyde	A	6266.4	6415.2	40.00000	40.95009	pg	2	15	
Methoxychlor	A	1794.7	1919.5	200.0000	213.9082	pg	7	15	
Endosulfan sulfate	A	6892.2	7127.7	40.00000	41.36670	pg	3	15	
Endrin ketone	A	7218.1	7709.8	40.00000	42.72475	pg	7	15	
TCMX	A	8369.9	8992.2	40.00000	42.97395	pg	7	15	
Decachlorobiphenyl	A	7737.7	8180.9	40.00000	42.29087	pg	6	15	
alpha-BHC	B	36352	39543	20.00000	21.75569	pg	9	15	
gamma-BHC	B	32965	35329	20.00000	21.43418	pg	7	15	
beta-BHC	B	17960	17216	20.00000	19.17201	pg	-4	15	
delta-BHC	B	35086	33899	20.00000	19.32334	pg	-3	15	
Heptachlor	B	21339	19059	20.00000	17.86377	pg	-11	15	
Aldrin	B	31241	33209	20.00000	21.25949	pg	6	15	
Heptachlor epoxide	B	28550	29813	20.00000	20.88447	pg	4	15	
gamma-Chlordane	B	31992	32810	20.00000	20.51089	pg	3	15	
alpha-Chlordane	B	31471	32178	20.00000	20.44911	pg	2	15	
4,4'-DDE	B	26617	27331	40.00000	41.07261	pg	3	15	
Endosulfan I	B	27820	28834	20.00000	20.72874	pg	4	15	
Dieldrin	B	27505	28455	40.00000	41.38182	pg	3	15	
Endrin	B	21908	22380	40.00000	40.86053	pg	2	15	
4,4'-DDD	B	17057	18484	40.00000	43.34555	pg	8	15	
Endosulfan II	B	24899	24327	40.00000	39.08075	pg	-2	15	
4,4'-DDT	B	12941	13399	40.00000	41.41450	pg	4	15	
Endrin aldehyde	B	19316	18984	40.00000	39.31253	pg	-2	15	
Methoxychlor	B	5447.9	5683.0	200.0000	208.6286	pg	4	15	
Endosulfan sulfate	B	23721	22080	40.00000	37.23384	pg	-7	15	
Endrin ketone	B	22009	23039	40.00000	41.87189	pg	5	15	
TCMX	B	27356	27440	40.00000	40.12290	pg	0	15	
Decachlorobiphenyl	B	18075	18306	40.00000	40.50959	pg	1	15	
Average EPA 8081A	A		(count=22)				10	15	
Average EPA 8081A	B		(count=22)				4	15	

+=high bias c=CCV rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234373719020
Calnum : 234355483001
Standards: 04WS1633

Run Name : ccv
Filename : 259_020
Caldate : 02-SEP-2004

IDF : 1.0
Injected : 15-SEP-2004 23:10
Caltype :

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8083.5	10335	25.00000	31.96219	pg	28	15	c+ rsd ***
gamma-BHC	A	7740.4	9644.9	25.00000	31.15098	pg	25	15	c+ rsd ***
beta-BHC	A	4922.9	4992.4	25.00000	25.35282	pg	1	15	
delta-BHC	A	8243.9	8849.9	25.00000	26.83773	pg	7	15	
Heptachlor	A	7622.8	7005.6	25.00000	22.97594	pg	-8	15	
Aldrin	A	8090.1	8765.6	25.00000	27.08735	pg	8	15	
Heptachlor epoxide	A	8494.2	8798.5	25.00000	25.89580	pg	4	15	
gamma-Chlordane	A	8777.2	9023.2	25.00000	25.70061	pg	3	15	
alpha-Chlordane	A	8845.3	9091.5	25.00000	25.69561	pg	3	15	
4,4'-DDE	A	6706.6	7759.1	50.00000	57.84719	pg	16	15	c+ ***
Endosulfan I	A	9119.8	9045.1	25.00000	24.79535	pg	-1	15	
Dieldrin	A	7722.7	8158.2	50.00000	52.81977	pg	6	15	
Endrin	A	6230.5	6593.9	50.00000	52.91645	pg	6	15	
4,4'-DDD	A	4766.3	5882.4	50.00000	61.70883	pg	23	15	c+ ***
Endosulfan II	A	7379.1	7641.8	50.00000	51.78052	pg	4	15	
4,4'-DDT	A	3114.2	3544.8	50.00000	56.91417	pg	14	15	rsd ***
Endrin aldehyde	A	6266.4	6139.7	50.00000	48.98916	pg	-2	15	
Methoxychlor	A	1794.7	1886.2	250.0000	262.7480	pg	5	15	
Endosulfan sulfate	A	6892.2	6861.9	50.00000	49.78019	pg	0	15	
Endrin ketone	A	7218.1	7494.0	50.00000	51.91131	pg	4	15	
TCMX	A	8369.9	8626.5	50.00000	51.53291	pg	3	15	
Decachlorobiphenyl	A	7737.7	7452.3	50.00000	48.15547	pg	-4	15	
alpha-BHC	B	36352	39222	25.00000	26.97353	pg	8	15	
gamma-BHC	B	32965	35457	25.00000	26.88955	pg	8	15	
beta-BHC	B	17960	17238	25.00000	23.99535	pg	-4	15	
delta-BHC	B	35086	34776	25.00000	24.77904	pg	-1	15	
Heptachlor	B	21339	21605	25.00000	25.31271	pg	1	15	
Aldrin	B	31241	31731	25.00000	25.39189	pg	2	15	
Heptachlor epoxide	B	28550	28497	25.00000	24.95378	pg	0	15	
gamma-Chlordane	B	31992	31331	25.00000	24.48285	pg	-2	15	
alpha-Chlordane	B	31471	30614	25.00000	24.31859	pg	-3	15	
4,4'-DDE	B	26617	27216	50.00000	51.12603	pg	2	15	
Endosulfan I	B	27820	27239	25.00000	24.47790	pg	-2	15	
Dieldrin	B	27505	26972	50.00000	49.03270	pg	-2	15	
Endrin	B	21908	21996	50.00000	50.19924	pg	0	15	
4,4'-DDD	B	17057	19592	50.00000	57.43017	pg	15	15	
Endosulfan II	B	24899	22999	50.00000	46.18572	pg	-8	15	
4,4'-DDT	B	12941	14770	50.00000	57.06624	pg	14	15	
Endrin aldehyde	B	19316	17970	50.00000	46.51698	pg	-7	15	
Methoxychlor	B	5447.9	6169.8	250.0000	283.1275	pg	13	15	
Endosulfan sulfate	B	23721	20895	50.00000	44.04453	pg	-12	15	
Endrin ketone	B	22009	22747	50.00000	51.67636	pg	3	15	
TCMX	B	27356	26174	50.00000	47.84026	pg	-4	15	
Decachlorobiphenyl	B	18075	17064	50.00000	47.20179	pg	-6	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				5	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234373719046
Calnum : 234355483001
Standards: 04WS1633

Run Name : ccv
Filename : 259_046
Caldate : 02-SEP-2004

IDF : 1.0
Injected : 16-SEP-2004 12:22
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8083.5	9901.4	25.00000	30.62230	pg	22	15	c+ rsd ***
gamma-BHC	A	7740.4	9264.9	25.00000	29.92385	pg	20	15	c+ rsd ***
beta-BHC	A	4922.9	4733.5	25.00000	24.03823	pg	-4	15	
delta-BHC	A	8243.9	8172.3	25.00000	24.78268	pg	-1	15	
Heptachlor	A	7622.8	6779.1	25.00000	22.23300	pg	-11	15	
Aldrin	A	8090.1	8340.4	25.00000	25.77332	pg	3	15	
Heptachlor epoxide	A	8494.2	8363.8	25.00000	24.61640	pg	-2	15	
gamma-Chlordane	A	8777.2	8629.6	25.00000	24.57952	pg	-2	15	
alpha-Chlordane	A	8845.3	8672.9	25.00000	24.51252	pg	-2	15	
4,4'-DDE	A	6706.6	7330.9	50.00000	54.65487	pg	9	15	
Endosulfan I	A	9119.8	8684.8	25.00000	23.80758	pg	-5	15	
Dieldrin	A	7722.7	7856.9	50.00000	50.86892	pg	2	15	
Endrin	A	6230.5	6514.2	50.00000	52.27624	pg	5	15	
4,4'-DDD	A	4766.3	5841.1	50.00000	61.27530	pg	23	15	c+ ***
Endosulfan II	A	7379.1	7669.6	50.00000	51.96851	pg	4	15	
4,4'-DDT	A	3114.2	4185.7	50.00000	67.20319	pg	34	15	c+ rsd ***
Endrin aldehyde	A	6266.4	6076.2	50.00000	48.48264	pg	-3	15	
Methoxychlor	A	1794.7	2072.3	250.0000	288.6753	pg	15	15	
Endosulfan sulfate	A	6892.2	6952.0	50.00000	50.43377	pg	1	15	
Endrin ketone	A	7218.1	8144.9	50.00000	56.41985	pg	13	15	
TCMX	A	8369.9	8421.1	50.00000	50.30621	pg	1	15	
Decachlorobiphenyl	A	7737.7	7909.3	50.00000	51.10861	pg	2	15	
alpha-BHC	B	36352	38037	25.00000	26.15859	pg	5	15	
gamma-BHC	B	32965	34040	25.00000	25.81533	pg	3	15	
beta-BHC	B	17960	16653	25.00000	23.18098	pg	-7	15	
delta-BHC	B	35086	33410	25.00000	23.80606	pg	-5	15	
Heptachlor	B	21339	19406	25.00000	22.73629	pg	-9	15	
Aldrin	B	31241	29911	25.00000	23.93531	pg	-4	15	
Heptachlor epoxide	B	28550	26972	25.00000	23.61771	pg	-6	15	
gamma-Chlordane	B	31992	29952	25.00000	23.40530	pg	-6	15	
alpha-Chlordane	B	31471	29359	25.00000	23.32241	pg	-7	15	
4,4'-DDE	B	26617	27122	50.00000	50.94852	pg	2	15	
Endosulfan I	B	27820	25956	25.00000	23.32470	pg	-7	15	
Dieldrin	B	27505	25770	50.00000	46.84734	pg	-6	15	
Endrin	B	21908	21455	50.00000	48.96590	pg	-2	15	
4,4'-DDD	B	17057	20631	50.00000	60.47509	pg	21	15	c+ ***
Endosulfan II	B	24899	22897	50.00000	45.97934	pg	-8	15	
4,4'-DDT	B	12941	15317	50.00000	59.18010	pg	18	15	c+ ***
Endrin aldehyde	B	19316	17430	50.00000	45.11848	pg	-10	15	
Methoxychlor	B	5447.9	6398.9	250.0000	293.6397	pg	17	15	c+ ***
Endosulfan sulfate	B	23721	20967	50.00000	44.19625	pg	-12	15	
Endrin ketone	B	22009	23764	50.00000	53.98620	pg	8	15	
TCMX	B	27356	26082	50.00000	47.67182	pg	-5	15	
Decachlorobiphenyl	B	18075	18895	50.00000	52.26796	pg	5	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				8	15	

+=high bias c=CCV rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234373719061
Calnum : 234355483001
Standards: 04WS1632

Run Name : pest_4
Filename : 259_061
Caldate : 02-SEP-2004

IDF : 1.0
Injected : 16-SEP-2004 23:00
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8083.5	9597.3	20.00000	23.74541	pg	19	15	c+ rsd ***
gamma-BHC	A	7740.4	9047.2	20.00000	23.37642	pg	17	15	c+ rsd ***
beta-BHC	A	4922.9	4740.2	20.00000	19.25771	pg	-4	15	
delta-BHC	A	8243.9	7920.3	20.00000	19.21493	pg	-4	15	
Heptachlor	A	7622.8	6331.5	20.00000	16.61205	pg	-17	15	c- ***
Aldrin	A	8090.1	8259.9	20.00000	20.41970	pg	2	15	
Heptachlor epoxide	A	8494.2	8442.4	20.00000	19.87819	pg	-1	15	
gamma-Chlordane	A	8777.2	8572.8	20.00000	19.53421	pg	-2	15	
alpha-Chlordane	A	8845.3	8669.4	20.00000	19.60213	pg	-2	15	
4,4'-DDE	A	6706.6	7267.0	40.00000	43.34281	pg	8	15	
Endosulfan I	A	9119.8	8589.9	20.00000	18.83794	pg	-6	15	
Dieldrin	A	7722.7	7870.2	40.00000	40.76413	pg	2	15	
Endrin	A	6230.5	6427.1	40.00000	41.26221	pg	3	15	
4,4'-DDD	A	4766.3	5725.4	40.00000	48.04971	pg	20	15	c+ ***
Endosulfan II	A	7379.1	7554.2	40.00000	40.94950	pg	2	15	
4,4'-DDT	A	3114.2	3318.3	40.00000	42.62141	pg	7	15	rsd ***
Endrin aldehyde	A	6266.4	6117.7	40.00000	39.05092	pg	-2	15	
Methoxychlor	A	1794.7	1894.6	200.0000	211.1331	pg	6	15	
Endosulfan sulfate	A	6892.2	6921.8	40.00000	40.17194	pg	0	15	
Endrin ketone	A	7218.1	7809.9	40.00000	43.27957	pg	8	15	
TCMX	A	8369.9	8504.6	40.00000	40.164372	pg	2	15	
Decachlorobiphenyl	A	7737.7	7720.7	40.00000	39.91220	pg	0	15	
alpha-BHC	B	36352	38530	20.00000	21.19825	pg	6	15	
gamma-BHC	B	32965	34677	20.00000	21.03854	pg	5	15	
beta-BHC	B	17960	17279	20.00000	19.24254	pg	-4	15	
delta-BHC	B	35086	34139	20.00000	19.46045	pg	-3	15	
Heptachlor	B	21339	19567	20.00000	18.33950	pg	-8	15	
Aldrin	B	31241	31059	20.00000	19.88343	pg	-1	15	
Heptachlor epoxide	B	28550	28073	20.00000	19.66547	pg	-2	15	
gamma-Chlordane	B	31992	30720	20.00000	19.20432	pg	-4	15	
alpha-Chlordane	B	31471	30194	20.00000	19.18821	pg	-4	15	
4,4'-DDE	B	26617	27605	40.00000	41.48568	pg	4	15	
Endosulfan I	B	27820	26842	20.00000	19.29674	pg	-4	15	
Dieldrin	B	27505	26659	40.00000	38.77070	pg	-3	15	
Endrin	B	21908	21899	40.00000	39.98353	pg	0	15	
4,4'-DDD	B	17057	21113	40.00000	49.51129	pg	24	15	c+ ***
Endosulfan II	B	24899	23375	40.00000	37.55225	pg	-6	15	
4,4'-DDT	B	12941	14338	40.00000	44.31832	pg	11	15	
Endrin aldehyde	B	19316	18155	40.00000	37.59512	pg	-6	15	
Methoxychlor	B	5447.9	6165.6	200.0000	226.3450	pg	13	15	
Endosulfan sulfate	B	23721	21466	40.00000	36.19753	pg	-10	15	
Endrin ketone	B	22009	23758	40.00000	43.17765	pg	8	15	
TCMX	B	27356	26814	40.00000	39.20839	pg	-2	15	
Decachlorobiphenyl	B	18075	18591	40.00000	41.14132	pg	3	15	
Average EPA 8081A	A			(count=22)			6	15	
Average EPA 8081A	B			(count=22)			6	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure

SEQUENCE SUMMARY FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234355483 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-SEP-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
008	246_008	PEM				02-SEP-2004 20:43	1.0		1			1	
009	246_009	X	hex			02-SEP-2004 21:14	1.0						
010	246_010	ICAL	level_1			02-SEP-2004 21:44	1.0					2	
011	246_011	ICAL	level_2			02-SEP-2004 22:14	1.0					3	
012	246_012	ICAL	level_3			02-SEP-2004 22:44	1.0					4	
013	246_013	ICAL	level_4			02-SEP-2004 23:14	1.0					5	
014	246_014	ICAL	level_5			02-SEP-2004 23:45	1.0					6	
015	246_015	ICAL	level_6			03-SEP-2004 00:15	1.0					7	
016	246_016	ICAL	level_7			03-SEP-2004 00:45	1.0					8	
018	246_018	X	icv			03-SEP-2004 01:46	1.0					9	
019	246_019	ICV				03-SEP-2004 02:16	1.0	3	1			9	2:BHCALP=32.2677

Stds used: 1=04WS0930 2=04WS1628 3=04WS1629 4=04WS1630 5=04WS1632 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584

SEQUENCE SUMMARY FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234373719 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 15-SEP-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
003	259_003	PEM				15-SEP-2004 12:39	1.0	1.0			1	1	1:DDT44=116.062
004	259_004	X	pest_4			15-SEP-2004 13:09	1.0					2	
005	259_005	CCV	ccv			15-SEP-2004 13:40	1.0	1.0	5		1	2	1:BHCALP=25.5050
007	259_007	BLANK	QC264661	94601	Soil	15-SEP-2004 16:14	1.0	0.6845			1		
008	259_008	LCS	QC264662	94601	Soil	15-SEP-2004 16:44	1.0	0.6826	5		1		1:BHCGAM=25.3139
009	259_009	SAMPLE	174609-003	94601	Soil	15-SEP-2004 17:37	10.0	0.6592			1		
010	259_010	SAMPLE	174609-004	94601	Soil	15-SEP-2004 18:08	1.0	0.6623			1		
011	259_011	SAMPLE	174609-005	94601	Soil	15-SEP-2004 18:38	1.0	0.6658			1		
012	259_012	SAMPLE	174631-001	94601	Soil	15-SEP-2004 19:08	1.0	0.6605			1		
013	259_013	SAMPLE	174631-002	94601	Soil	15-SEP-2004 19:39	1.0	0.6553		2	1		
014	259_014	SAMPLE	174631-003	94601	Soil	15-SEP-2004 20:09	1.0	0.6729			1		
015	259_015	SAMPLE	174631-005	94601	Soil	15-SEP-2004 20:39	1.0	0.6557			1		
016	259_016	SAMPLE	174631-006	94601	Soil	15-SEP-2004 21:10	1.0	0.6588			1		
018	259_018	PEM				15-SEP-2004 22:10	1.0	1.0			1	3	1:DDT44=139.549
019	259_019	X	pest_5			15-SEP-2004 22:40	1.0					4	
020	259_020	CCV	ccv			15-SEP-2004 23:10	1.0	1.0	5		1	4	3:DDT44=56.9142
021	259_021	X	ccv			15-SEP-2004 23:41	1.0					5	
024	259_024	SAMPLE	174611-001	94601	Soil	16-SEP-2004 01:12	1.0	0.6707			1		
025	259_025	MSS	174582-001	94601	Soil	16-SEP-2004 01:42	1.0						
026	259_026	?MS	QC264662	94601		16-SEP-2004 02:13	1.0						
027	259_027	?MSD	QC264663	94601		16-SEP-2004 02:43	1.0						
028	259_028	SAMPLE	174587-001	94601	Soil	16-SEP-2004 03:13	1.0						
029	259_029	SAMPLE	174587-003	94601	Soil	16-SEP-2004 03:43	4.0						
030	259_030	SAMPLE	174587-004	94601	Soil	16-SEP-2004 04:14	1.0						
031	259_031	SAMPLE	174587-005	94601	Soil	16-SEP-2004 04:44	5.0						
032	259_032	SAMPLE	174587-006	94601	Soil	16-SEP-2004 05:15	5.0						
033	259_033	SAMPLE	174587-007	94601	Soil	16-SEP-2004 05:45	1.0						
035	259_035	PEM				16-SEP-2004 06:46	1.0	1.0			1	3	1:DDT44=144.365
036	259_036	CCV	pest_4			16-SEP-2004 07:16	1.0	1.0	4		1	2	
037	259_037	X	ccv			16-SEP-2004 07:46	1.0					2	
040	259_040	SAMPLE	174582-002	94601	Soil	16-SEP-2004 09:17	10.0						

Stds used: 1=04WS0930 2=04WS1632 3=04WS1614 4=04WS1633 5=04WS1630

SEQUENCE SUMMARY FOR 174631 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234373719 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 15-SEP-2004
Analytical Method: EPA 8081A SOP Version: 8081_ry7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
041	259_041	SAMPLE	174587-009	94601	Soil	16-SEP-2004 09:48	5.0						
042	259_042	SAMPLE	174587-010	94601	Soil	16-SEP-2004 10:18	10.0						
044	259_044	PEM				16-SEP-2004 11:19	1.0	1.0			1	3	1:DDT44=158.289
045	259_045	X	pest_5			16-SEP-2004 11:52	1.0					4	
046	259_046	CCV	ccv			16-SEP-2004 12:22	1.0	1.0	7		1	4	3:DDT44=67.2032
047	259_047	X	ccv			16-SEP-2004 12:53	1.0					5	
049	259_049	MSS	174582-001	94601	Soil	16-SEP-2004 15:05	1.0	0.6592	3		1		
050	259_050	MS	QC264663	94601	Soil	16-SEP-2004 17:05	1.0	0.6609	8		1		2:BHCGAM=26.1152
051	259_051	MSD	QC264664	94601	Soil	16-SEP-2004 17:35	1.0	0.6658	8	2	1		2:BHCALP=26.2021
052	259_052	SAMPLE	174587-001	94601	Soil	16-SEP-2004 18:27	1.0	0.6684	4		1		
053	259_053	SAMPLE	174587-003	94601	Soil	16-SEP-2004 18:58	4.0	0.6562	3	1	1		
054	259_054	SAMPLE	174587-004	94601	Soil	16-SEP-2004 19:28	1.0	0.6662	1		1		
055	259_055	SAMPLE	174587-005	94601	Soil	16-SEP-2004 19:59	5.0	0.6588	1		1		
056	259_056	SAMPLE	174587-006	94601	Soil	16-SEP-2004 20:29	5.0	0.6592	3		1		
057	259_057	SAMPLE	174587-007	94601	Soil	16-SEP-2004 21:00	1.0	0.6623	1		1		
058	259_058	SAMPLE	174587-010	94601	Soil	16-SEP-2004 21:30	10.0	0.677	1		1		
060	259_060	PEM				16-SEP-2004 22:30	1.0	1.0			1	3	1:DDT44=122.058
061	259_061	CCV	pest_4			16-SEP-2004 23:00	1.0	1.0	6		1	2	
062	259_062	X	ccv			16-SEP-2004 23:31	1.0					2	
065	259_065	SAMPLE	174582-002	94601	Soil	17-SEP-2004 01:02	10.0	0.6729	1		1		
066	259_066	SAMPLE	174587-009	94601	Soil	17-SEP-2004 01:32	5.0	0.6645	2		1		
068	259_068	PEM				17-SEP-2004 02:33	1.0	1.0			1	3	1:DDT44=113.963
069	259_069	CCV	pest_5			17-SEP-2004 03:03	1.0	1.0	5		1	4	3:DDT44=52.4118
070	259_070	X	ccv			17-SEP-2004 03:34	1.0					4	
071	259_071	X	ccv			17-SEP-2004 04:04	1.0					5	

Stds used: 1=04WS0930 2=04WS1632 3=04WS1614 4=04WS1633 5=04WS1630

Reporting Summary for 174631 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174631-001	alpha-BHC	GC16	B	09/15/04 19:08
174631-001	beta-BHC	GC16	B	09/15/04 19:08
174631-001	gamma-BHC	GC16	B	09/15/04 19:08
174631-001	delta-BHC	GC16	B	09/15/04 19:08
174631-001	Heptachlor	GC16	B	09/15/04 19:08
174631-001	Aldrin	GC16	B	09/15/04 19:08
174631-001	Heptachlor epoxide	GC16	B	09/15/04 19:08
174631-001	Endosulfan I	GC16	B	09/15/04 19:08
174631-001	Dieldrin	GC16	B	09/15/04 19:08
174631-001	4,4'-DDE	GC16	B	09/15/04 19:08
174631-001	Endrin	GC16	B	09/15/04 19:08
174631-001	Endosulfan II	GC16	B	09/15/04 19:08
174631-001	Endosulfan sulfate	GC16	B	09/15/04 19:08
174631-001	4,4'-DDD	GC16	B	09/15/04 19:08
174631-001	Endrin ketone	GC16	B	09/15/04 19:08
174631-001	4,4'-DDT	GC16	B	09/15/04 19:08
174631-001	Chlordane (Technical)	GC16	B	09/15/04 19:08
174631-001	alpha-Chlordane	GC16	B	09/15/04 19:08
174631-001	gamma-Chlordane	GC16	B	09/15/04 19:08
174631-001	Methoxychlor	GC16	B	09/15/04 19:08
174631-001	Toxaphene	GC16	B	09/15/04 19:08
174631-001	TCMX	GC16	B	09/15/04 19:08
174631-001	Decachlorobiphenyl	GC16	B	09/15/04 19:08
174631-002	alpha-BHC	GC16	B	09/15/04 19:39
174631-002	beta-BHC	GC16	B	09/15/04 19:39
174631-002	gamma-BHC	GC16	B	09/15/04 19:39
174631-002	delta-BHC	GC16	B	09/15/04 19:39
174631-002	Heptachlor	GC16	B	09/15/04 19:39
174631-002	Aldrin	GC16	B	09/15/04 19:39
174631-002	Heptachlor epoxide	GC16	B	09/15/04 19:39
174631-002	Endosulfan I	GC16	B	09/15/04 19:39
174631-002	Dieldrin	GC16	B	09/15/04 19:39
174631-002	4,4'-DDE	GC16	B	09/15/04 19:39
174631-002	Endrin	GC16	B	09/15/04 19:39
174631-002	Endosulfan II	GC16	B	09/15/04 19:39
174631-002	Endosulfan sulfate	GC16	B	09/15/04 19:39
174631-002	4,4'-DDD	GC16	B	09/15/04 19:39
174631-002	Endrin ketone	GC16	B	09/15/04 19:39
174631-002	4,4'-DDT	GC16	B	09/15/04 19:39
174631-002	Chlordane (Technical)	GC16	B	09/15/04 19:39
174631-002	alpha-Chlordane	GC16	B	09/15/04 19:39
174631-002	gamma-Chlordane	GC16	B	09/15/04 19:39
174631-002	Methoxychlor	GC16	B	09/15/04 19:39
174631-002	Toxaphene	GC16	B	09/15/04 19:39
174631-002	TCMX	GC16	B	09/15/04 19:39
174631-002	Decachlorobiphenyl	GC16	B	09/15/04 19:39
174631-003	alpha-BHC	GC16	B	09/15/04 20:09
174631-003	beta-BHC	GC16	B	09/15/04 20:09
174631-003	gamma-BHC	GC16	B	09/15/04 20:09
174631-003	delta-BHC	GC16	B	09/15/04 20:09
174631-003	Heptachlor	GC16	B	09/15/04 20:09
174631-003	Aldrin	GC16	B	09/15/04 20:09

Reporting Summary for 174631 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174631-003	Heptachlor epoxide	GC16	B	09/15/04 20:09
174631-003	Endosulfan I	GC16	B	09/15/04 20:09
174631-003	Dieldrin	GC16	B	09/15/04 20:09
174631-003	4,4'-DDE	GC16	B	09/15/04 20:09
174631-003	Endrin	GC16	B	09/15/04 20:09
174631-003	Endosulfan II	GC16	B	09/15/04 20:09
174631-003	Endosulfan sulfate	GC16	B	09/15/04 20:09
174631-003	4,4'-DDD	GC16	B	09/15/04 20:09
174631-003	Endrin ketone	GC16	B	09/15/04 20:09
174631-003	4,4'-DDT	GC16	B	09/15/04 20:09
174631-003	Chlordane (Technical)	GC16	B	09/15/04 20:09
174631-003	alpha-Chlordane	GC16	B	09/15/04 20:09
174631-003	gamma-Chlordane	GC16	B	09/15/04 20:09
174631-003	Methoxychlor	GC16	B	09/15/04 20:09
174631-003	Toxaphene	GC16	B	09/15/04 20:09
174631-003	TCMX	GC16	B	09/15/04 20:09
174631-003	Decachlorobiphenyl	GC16	B	09/15/04 20:09
174631-005	alpha-BHC	GC16	B	09/15/04 20:39
174631-005	beta-BHC	GC16	B	09/15/04 20:39
174631-005	gamma-BHC	GC16	B	09/15/04 20:39
174631-005	delta-BHC	GC16	B	09/15/04 20:39
174631-005	Heptachlor	GC16	B	09/15/04 20:39
174631-005	Aldrin	GC16	B	09/15/04 20:39
174631-005	Heptachlor epoxide	GC16	B	09/15/04 20:39
174631-005	Endosulfan I	GC16	B	09/15/04 20:39
174631-005	Dieldrin	GC16	B	09/15/04 20:39
174631-005	4,4'-DDE	GC16	B	09/15/04 20:39
174631-005	Endrin	GC16	B	09/15/04 20:39
174631-005	Endosulfan II	GC16	B	09/15/04 20:39
174631-005	Endosulfan sulfate	GC16	B	09/15/04 20:39
174631-005	4,4'-DDD	GC16	B	09/15/04 20:39
174631-005	Endrin ketone	GC16	B	09/15/04 20:39
174631-005	4,4'-DDT	GC16	B	09/15/04 20:39
174631-005	Chlordane (Technical)	GC16	B	09/15/04 20:39
174631-005	alpha-Chlordane	GC16	B	09/15/04 20:39
174631-005	gamma-Chlordane	GC16	B	09/15/04 20:39
174631-005	Methoxychlor	GC16	B	09/15/04 20:39
174631-005	Toxaphene	GC16	B	09/15/04 20:39
174631-005	TCMX	GC16	B	09/15/04 20:39
174631-005	Decachlorobiphenyl	GC16	B	09/15/04 20:39
174631-006	alpha-BHC	GC16	B	09/15/04 21:10
174631-006	beta-BHC	GC16	B	09/15/04 21:10
174631-006	gamma-BHC	GC16	B	09/15/04 21:10
174631-006	delta-BHC	GC16	B	09/15/04 21:10
174631-006	Heptachlor	GC16	B	09/15/04 21:10
174631-006	Aldrin	GC16	B	09/15/04 21:10
174631-006	Heptachlor epoxide	GC16	B	09/15/04 21:10
174631-006	Endosulfan I	GC16	B	09/15/04 21:10
174631-006	Dieldrin	GC16	B	09/15/04 21:10
174631-006	4,4'-DDE	GC16	B	09/15/04 21:10
174631-006	Endrin	GC16	B	09/15/04 21:10
174631-006	Endosulfan II	GC16	B	09/15/04 21:10

Reporting Summary for 174631 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174631-006	Endosulfan sulfate	GC16	B	09/15/04 21:10
174631-006	4,4'-DDD	GC16	B	09/15/04 21:10
174631-006	Endrin ketone	GC16	B	09/15/04 21:10
174631-006	4,4'-DDT	GC16	B	09/15/04 21:10
174631-006	Chlordane (Technical)	GC16	B	09/15/04 21:10
174631-006	alpha-Chlordane	GC16	B	09/15/04 21:10
174631-006	gamma-Chlordane	GC16	B	09/15/04 21:10
174631-006	Methoxychlor	GC16	B	09/15/04 21:10
174631-006	Toxaphene	GC16	B	09/15/04 21:10
174631-006	TCMX	GC16	B	09/15/04 21:10
174631-006	Decachlorobiphenyl	GC16	B	09/15/04 21:10
QC264661	alpha-BHC	GC16	B	09/15/04 16:14
QC264661	beta-BHC	GC16	B	09/15/04 16:14
QC264661	gamma-BHC	GC16	B	09/15/04 16:14
QC264661	delta-BHC	GC16	B	09/15/04 16:14
QC264661	Heptachlor	GC16	B	09/15/04 16:14
QC264661	Aldrin	GC16	B	09/15/04 16:14
QC264661	Heptachlor epoxide	GC16	B	09/15/04 16:14
QC264661	Endosulfan I	GC16	B	09/15/04 16:14
QC264661	Dieldrin	GC16	B	09/15/04 16:14
QC264661	4,4'-DDE	GC16	B	09/15/04 16:14
QC264661	Endrin	GC16	B	09/15/04 16:14
QC264661	Endosulfan II	GC16	B	09/15/04 16:14
QC264661	Endosulfan sulfate	GC16	B	09/15/04 16:14
QC264661	4,4'-DDD	GC16	B	09/15/04 16:14
QC264661	Endrin ketone	GC16	B	09/15/04 16:14
QC264661	4,4'-DDT	GC16	B	09/15/04 16:14
QC264661	Chlordane (Technical)	GC16	B	09/15/04 16:14
QC264661	alpha-Chlordane	GC16	B	09/15/04 16:14
QC264661	gamma-Chlordane	GC16	B	09/15/04 16:14
QC264661	Methoxychlor	GC16	B	09/15/04 16:14
QC264661	Toxaphene	GC16	B	09/15/04 16:14
QC264661	TCMX	GC16	B	09/15/04 16:14
QC264661	Decachlorobiphenyl	GC16	B	09/15/04 16:14
QC264662	gamma-BHC	GC16	B	09/15/04 16:44
QC264662	Heptachlor	GC16	B	09/15/04 16:44
QC264662	Aldrin	GC16	B	09/15/04 16:44
QC264662	Dieldrin	GC16	B	09/15/04 16:44
QC264662	Endrin	GC16	B	09/15/04 16:44
QC264662	4,4'-DDT	GC16	B	09/15/04 16:44
QC264662	TCMX	GC16	B	09/15/04 16:44
QC264662	Decachlorobiphenyl	GC16	B	09/15/04 16:44
QC264663	gamma-BHC	GC16	B	09/16/04 17:05
QC264663	Heptachlor	GC16	B	09/16/04 17:05
QC264663	Aldrin	GC16	B	09/16/04 17:05
QC264663	Dieldrin	GC16	B	09/16/04 17:05
QC264663	Endrin	GC16	B	09/16/04 17:05
QC264663	4,4'-DDT	GC16	A	09/16/04 17:05
QC264663	TCMX	GC16	B	09/16/04 17:05
QC264663	Decachlorobiphenyl	GC16	B	09/16/04 17:05

Reporting Summary for 174631 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC264664	gamma-BHC	GC16	B	09/16/04 17:35
QC264664	Heptachlor	GC16	B	09/16/04 17:35
QC264664	Aldrin	GC16	B	09/16/04 17:35
QC264664	Dieldrin	GC16	B	09/16/04 17:35
QC264664	Endrin	GC16	B	09/16/04 17:35
QC264664	4,4'-DDT	GC16	A	09/16/04 17:35
QC264664	TCMX	GC16	B	09/16/04 17:35
QC264664	Decachlorobiphenyl	GC16	B	09/16/04 17:35

Curtis & Tompkins Laboratories Sample Preparation Summary 15-SEP-2004 14:28

atch Number : 94601
ate Extracted: 14-SEP-2004
xtracted by : Coral E. Weese
rep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1551D
Spike #3 ID :
SOP Version : 8081ASE_rv0

ple	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
582-001			Tetra Tech FW	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	mss
582-002 - 10x			Tetra Tech FW	Soil	14.86	g	10	0.672948	1		.01	0		8081	3620B	
587-001			Tetra Tech FW	Soil	14.96	g	10	0.668449	1		.01	0		8081	3620B	
587-003 - 1x			Tetra Tech FW	Soil	15.24	g	10	0.656168	1		.01	0		8081	3620B	
587-004			Tetra Tech FW	Soil	15.01	g	10	0.666223	1		.01	0		8081	3620B	
587-005 - 5x			Tetra Tech FW	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
587-006 - 5x			Tetra Tech FW	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	
587-007			Tetra Tech FW	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
587-009 - 10x			Tetra Tech FW	Soil	15.05	g	10	0.664452	1		.01	0		8081	3620B	
587-010 - 5x			Tetra Tech FW	Soil	14.77	g	10	0.677048	1		.01	0		8081	3620B	
609-003 - 1x			URS Corporation	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	
609-004			URS Corporation	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
609-005			URS Corporation	Soil	15.02	g	10	0.665779	1		.01	0		8081	3620B	
611-001			URS Corporation	Soil	14.91	g	10	0.670691	1		.01	0		8081	3620B	
631-001			Treadwell & Rollo	Soil	15.14	g	10	0.660502	1		.01	0		8081	3620B	
631-002			Treadwell & Rollo	Soil	15.26	g	10	0.655308	1		.01	0		8081	3620B	
631-003			Treadwell & Rollo	Soil	14.86	g	10	0.672948	1		.01	0		8081	3620B	
631-005			Treadwell & Rollo	Soil	15.25	g	10	0.655738	1		.01	0		8081	3620B	
631-006			Treadwell & Rollo	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
264661	MB			Soil	14.61	g	10	0.684463	1		.01	0		8081	3620B	
264662	LCS			Soil	14.65	g	10	0.682594	1		.01	.5		8081	3620B	
264663	MS	of 174582-001		Soil	15.13	g	10	0.660939	1		.01	.5		8081	3620B	
264664	MSD	of 174582-001		Soil	15.02	g	10	0.665779	1		.01	.5		8081	3620B	

wrong, see ext. prep sheet
Fixed in LIMS ↔ CW 9/16/04

Prep Chemist: Coral Weese Reviewed By: [illegible] Date: 9/15/04

Relinquished By: [illegible] 9/15/04 Received By: [illegible] Date: 9/15/04

Curtis & Tompkins Laboratories Sample Preparation Summary 16-SEP-2004 12:37

Batch Number : 94601
Date Extracted: 14-SEP-2004
Extracted by : Coral E. Weese
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1551D
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174582-001		Tetra Tech FW	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	mss
174582-002		Tetra Tech FW	Soil	14.86	g	10	0.672948	1		.01	0		8081	3620B	
174587-001		Tetra Tech FW	Soil	14.96	g	10	0.668449	1		.01	0		8081	3620B	
174587-003		Tetra Tech FW	Soil	15.24	g	10	0.656168	1		.01	0		8081	3620B	
174587-004		Tetra Tech FW	Soil	15.01	g	10	0.666223	1		.01	0		8081	3620B	
174587-005		Tetra Tech FW	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
174587-006		Tetra Tech FW	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	
174587-007		Tetra Tech FW	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
174587-009		Tetra Tech FW	Soil	15.05	g	10	0.664452	1		.01	0		8081	3620B	
174587-010		Tetra Tech FW	Soil	14.77	g	10	0.677048	1		.01	0		8081	3620B	
174609-003		URS Corporation	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	
174609-004		URS Corporation	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
174609-005		URS Corporation	Soil	15.02	g	10	0.665779	1		.01	0		8081	3620B	
174611-001		URS Corporation	Soil	14.91	g	10	0.670691	1		.01	0		8081	3620B	
174631-001		Treadwell & Rollo	Soil	15.14	g	10	0.660502	1		.01	0		8081	3620B	
174631-002		Treadwell & Rollo	Soil	15.26	g	10	0.655308	1		.01	0		8081	3620B	
174631-003		Treadwell & Rollo	Soil	14.86	g	10	0.672948	1		.01	0		8081	3620B	
174631-005		Treadwell & Rollo	Soil	15.25	g	10	0.655738	1		.01	0		8081	3620B	
174631-006		Treadwell & Rollo	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
QC264661	MB		Soil	14.61	g	10	0.684463	1		.01	0		8081	3620B	
QC264662	LCS		Soil	14.65	g	10	0.682594	1		.02	.5		8081	3620B	
QC264663	MS	of 174582-001	Soil	15.13	g	10	0.660939	1		.01	.5		8081	3620B	
QC264664	MSD	of 174582-001	Soil	15.02	g	10	0.665779	1		.01	.5		8081	3620B	

Changed in LIMS,
- Analyst error → see Ext. Prep. Log
GW 9/16/04

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Curtis & Tompkins, Ltd.

8081 SOIL PREP LOG

BK 1965

Page 39

LIMS Batch No: 94601
LIMS Analysis: 8081
Extracted by: CW
Date Extracted: 9/14/04

Extraction Method:
- ☐ EPA 3550b Sonication
- ☑ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
174609-003	15.17	10.0	X	MSS CW 9/14/04
-004	15.10			
-005	15.07			
174631-001	15.14			
-002	15.26			
-003	14.86			
-005	15.25			
-006	15.18			
MB QL2046161	14.61			
LCS 2	14.65			poss. 2x surrogate
MS 3	15.13			
MSD 4	15.02			
174557-001	14.96		X	
-003	15.24			
-004	15.01			
-005	15.18			
-006	15.17			
-007	15.10			
-009	15.05			
-010	14.77			
174611-001	14.91			
174582-001	15.17			MSS
-002	14.86			
				BG 9/15/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM440284 1	MW 9/14/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	DIONEX 040603	
0.01 mL of surrogate solution was added to all samples	04WS1343BA CW 9/14/04	
1.50 mL of spike solution was added to all spikes	04WS1551D	
CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44179) was added to all	✓ CW 9/14/04	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	Whatman 938 ✓	
ASE Cellulose Filters used:	Whatman 938	
Soxhlets on at:	N/A	
Soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	✓	
Exchanged 2x with Hexane	✓	BG 9/15/04
Concentrated: ☐ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	

9/15/04
Extraction Chemist / Date

Continued from page _____
Continued on page _____

9/15/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: BSS

Cleanup Date: 9/15/07

Benchbook # **BK 1991**

Page 14

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
174609-003	44601	1.0	1.0	
-004				
-005				
174631-001				
-002				
-003				
-005				
-006				
MB QC264661				
LCS 2				
MS 3				
MSD 4				
174587-001				
-003				
-004				
-005				
-006				
-007				
-009				
-010				
174611-001				
174582-001				MSS
-002				

BSS 9/15/07

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	WSPE 303221-A2	BB 9/15/07
Florisil cartridges/ columns rinsed 3x with Hexane	JT BY53E46	
Extracts were eluted with 9 mL 9:1 Hexane/Acetone — Hexane		
Acetone	EM 44085	
Concentrated to volumes as noted above		

9/15/07

Extraction Chemist / Date

Continued from page —

Continued on page —

9/15/07

Reviewed by / Date

Sample ID	WEIGHT (g)	ANALYSIS	COMMENTS
174582-001A	14.87	PCB	SHELLY, VERY WET
↓ -002A	15.07	↓	MSS
MSD	15.11	↓	GLASS
MS	14.94	↓	
MB	14.94	↓	EM44028421
LCS	15.11	↓	
174587-001A	15.12	PCB	WET, ROCKY
-003A	15.13	↓	CLAY
-004A	15.16	↓	
-005A	14.97	↓	MUDDY
-006A	14.81	↓	CLAY LIKE, WET
-007A	14.83	↓	
-009A	15.18	↓	
-010A	15.04	↓	TOO WET
174609-003	15.25	PCB	COMP A-D MSS
-004	15.16	↓	↓
-005	15.21	↓	↓
MS	15.5	8081	174609-003
MSD	15.01	8081	↓
174609-003	15.17	8081	COMP A-D
-004	15.10	↓	↓
-005	15.02	↓	↓
174609-003	50.43	TEHM	COMP A-D
-004	MC 9/14 50.48	↓	↓
-005	50.28	↓	↓
174609-003	30.31	8270	COMP A-D
-004	29.95	↓	↓
-005	MC 9/14 ~~30.09~~ 30.46	↓	↓ EM44028441
MB	14.61	8081	COMP EM44035440
LCS	14.65	↓	9/14/14

PROJECT SOIL ALIQUOT

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174610-001B	29.96	8270	
-002B	30.13		WET
-003B	30.30		
-004A	30.35		WET, CLAY
-005B	30.02		MSS
MS	29.90		EM4402842 1
MSD	30.00		
MB	30.05		
LCS	30.09		
174611-001	14.91	8081	MICE SAND
174611-001	30.16	8100	COMP A-D MSS
MS	30.10		
MB	29.84		CONSISTENT SAND
MSD	30.27		
LCS	29.83		EM4402842 1
174610-001B	15.12	8081	
002B	14.92		
003B	15.20		
004A	15.11		
005B	15.10		
174587-001A	14.96	8081	
-002A	15.24		
004A	15.01		CLAY
005A	15.18		HARD TO WK. WITH
006A	15.17		WET CLAY
007A	15.10		CLAY
009A	15.05		
010A	14.77		

5/14/14

PROJECT SOIL ALIQUOT

Notebook No. BK999

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174582-001A	15.17	8081	MSS
-002A	14.86		
MS	15.13		EM4402842I
MSD	15.02		
LCS	15.09		
MB	14.86		
174631-001	15.14	8081	added after 3'd out page
-002	15.26		
-003	14.86		
-005	15.25		
-006	15.18		
174631-001	14.48	PCB	
-002	14.61		
-003	15.03		
-005	15.35		
-006	14.70		

Continued on Page

Read and Understood By

Signed 9/4/04 Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14 A	GC14 B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/14/04
Units:	ug/Kg	Received:	09/14/04
Dil'n Fac:	1.000	Prepared:	09/14/04
Batch#:	94591		

Field ID:	BB3EX125[0.5]	Moisture:	2%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.8
Aroclor-1248	ND	10	2.7
Aroclor-1254	ND	10	2.1
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	72	65-135

Field ID:	BB3EX124[0.5]	Moisture:	1%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-002	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.6
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.1
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/14/04
Units:	ug/Kg	Received:	09/14/04
Diln Fac:	1.000	Prepared:	09/14/04
Batch#:	94591		

Field ID:	BB3EX123[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-003	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.7
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	103	65-135
Decachlorobiphenyl	88	65-135

Field ID:	BB3EX127[0.5]	Moisture:	3%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.7	1.8
Aroclor-1221	ND	19	10
Aroclor-1232	ND	9.7	6.8
Aroclor-1242	ND	9.7	2.6
Aroclor-1248	ND	9.7	2.6
Aroclor-1254	ND	9.7	2.1
Aroclor-1260	ND	9.7	1.3

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/14/04
Units:	ug/Kg	Received:	09/14/04
Diln Fac:	1.000	Prepared:	09/14/04
Batch#:	94591		

Field ID:	BB3EX126[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.9
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.2
Aroclor-1242	ND	10	2.7
Aroclor-1248	ND	10	2.7
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	1.5

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	81	65-135

Type:	BLANK	Analyzed:	09/15/04
Lab ID:	QC264629	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	1.8
Aroclor-1221	ND	19	10
Aroclor-1232	ND	9.6	6.8
Aroclor-1242	ND	9.6	2.6
Aroclor-1248	ND	9.6	2.5
Aroclor-1254	ND	9.6	2.1
Aroclor-1260	ND	9.6	1.4

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC264630	Batch#:	94591
Matrix:	Soil	Prepared:	09/14/04
Units:	ug/Kg	Analyzed:	09/15/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	165.5	161.3	97	65-135

Surrogate	%REC	Limits
TCMX	97	65-135
Decachlorobiphenyl	83	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	174582-002	Batch#:	94591
Matrix:	Soil	Sampled:	09/09/04
Units:	ug/Kg	Received:	09/10/04
Basis:	dry	Prepared:	09/14/04

Type:	MS	Analyzed:	09/21/04
Lab ID:	QC264631	Cleanup Method:	EPA 3665A
Moisture:	20%		

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	119.7	209.2	391.5	130	65-135

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	89	65-135

Type:	MSD	Analyzed:	09/22/04
Lab ID:	QC264632	Cleanup Method:	EPA 3665A
Moisture:	20%		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	206.8	348.8	111	65-135	11	35

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	83	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

nstrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
alnum: 204350924001 Name: Type: (normal) Date: 30-AUG-2004 16:44 Inj Vol (uL): 1

alibration levels:

Filename	Segnum	Samplenum	Analyzed	Standards
243_009	204350924009	pcb10_2	30-AUG-2004 16:44	04WS0970
243_010	204350924010	pcb25_5	30-AUG-2004 18:32	04WS0960
243_011	204350924011	pcb100_20	30-AUG-2004 19:05	04WS1424
243_012	204350924012	pcb250_50	30-AUG-2004 19:38	04WS0962
243_013	204350924013	pcb500_100	30-AUG-2004 20:11	04WS1522
243_014	204350924014	pcb750_150	30-AUG-2004 20:44	04WS0964
243_015	204350924015	pcb1K_200	30-AUG-2004 21:18	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	471.50	423.46	399.27	398.57	393.84	380.09	365.51	AVRG	R		0.002472		pg	404.61	9	.99	20	
Aroclor-1016 Peak # 2	A	772.68	846.80	764.59	734.94	704.17	667.36	643.87	AVRG	R		0.001363		pg	733.49	9	.99	20	
Aroclor-1016 Peak # 3	A	858.56	963.67	822.89	819.97	824.35	801.53	791.50	AVRG	R		0.001190		pg	840.35	7	.99	20	
Aroclor-1016 Peak # 4	A	587.36	634.26	532.03	537.64	529.28	505.43	502.06	AVRG	R		0.001829		pg	546.87	9	.99	20	
Aroclor-1016 Peak # 5	A	509.93	534.79	451.05	451.69	444.19	420.66	419.98	AVRG	R		0.002166		pg	461.76	10	.99	20	
Aroclor-1260 Peak # 1	A	921.55	1001.0	794.09	756.79	727.56	665.30	670.48	AVRG	R		0.001264		pg	790.97	16	.99	20	
Aroclor-1260 Peak # 2	A	1444.6	1514.5	1227.0	1162.5	1126.6	1031.2	1047.9	AVRG	R		8.183E-4		pg	1222.0	15	.99	20	
Aroclor-1260 Peak # 3	A	597.39	738.41	583.41	566.78	551.72	503.19	518.09	AVRG	R		0.001725		pg	579.86	13	.99	20	
Aroclor-1260 Peak # 4	A	588.71	707.05	597.57	594.78	587.32	543.80	566.68	AVRG	R		0.001672		pg	597.99	9	.99	20	
Aroclor-1260 Peak # 5	A	1204.0	1531.7	1243.9	1237.8	1210.3	1118.9	1187.1	AVRG	R		8.015E-4		pg	1247.7	11	.99	20	
TCMX	A	17518	18850	15927	16085	16102	15836	15346	AVRG	R		6.052E-5		pg	16523	7	.99	20	
Decachlorobiphenyl	A	13478	13708	11736	10907	10041	9156.4	9821.3	AVRG	R		8.878E-5		pg	11264	16	.99	20	
Aroclor-1016 Peak # 1	B	585.04	565.14	509.04	505.50	490.14	463.63	446.32	AVRG	R		0.001964		pg	509.26	10	.99	20	
Aroclor-1016 Peak # 2	B	824.70	759.10	677.19	646.21	629.35	574.26	565.36	AVRG	R		0.001497		pg	668.02	14	.99	20	
Aroclor-1016 Peak # 3	B	1818.0	2076.7	1849.8	1774.0	1763.9	1635.8	1639.6	AVRG	R		5.574E-4		pg	1794.0	8	.99	20	
Aroclor-1016 Peak # 4	B	831.51	899.77	839.66	794.64	795.52	729.45	723.94	AVRG	R		0.001247		pg	802.07	8	.99	20	
Aroclor-1016 Peak # 5	B	641.12	660.35	562.46	551.87	556.50	505.49	503.92	AVRG	R		0.001758		pg	568.81	11	.99	20	
Aroclor-1260 Peak # 1	B	1289.5	1463.3	1191.4	1091.6	1068.2	976.26	975.78	AVRG	R		8.689E-4		pg	1150.9	15	.99	20	
Aroclor-1260 Peak # 2	B	1549.8	1596.4	1234.1	1134.9	1093.9	991.25	998.23	AVRG	R		8.141E-4		pg	1228.4	20	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

nstrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204350924001 Name: Type: (normal) Date: 30-AUG-2004 16:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	972.32	895.04	790.13	719.21	693.23	644.49	655.32	AVRG	R		0.001304		pg	767.11	16	.99	20	
Aroclor-1260 Peak # 4	B	929.29	929.02	794.49	749.08	732.73	688.05	712.00	AVRG	R		0.001265		pg	790.67	13	.99	20	
Aroclor-1260 Peak # 5	B	1789.7	1972.6	1611.0	1530.8	1550.1	1457.8	1544.5	AVRG	R		6.110E-4		pg	1636.6	11	.99	20	
TCMX	B	23780	23653	21609	21225	20687	19863	18040	AVRG	R		4.703E-5		pg	21265	10	.99	20	
Decachlorobiphenyl	B	14393	13843	11908	10725	10096	9338.0	10017	AVRG	R		8.715E-5		pg	11474	17	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Calname :
Calnum : 204350924001 Caldate : 30-AUG-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	204350924020	31-AUG-2004	250.00	278.73	pg	11	15
Aroclor-1260	A	204350924020	31-AUG-2004	250.00	276.94	pg	11	15
TCMX	A	204350924020	31-AUG-2004	50.000	50.899	pg	2	15
Decachlorobiphenyl	A	204350924020	31-AUG-2004	50.000	49.351	pg	-1	15
Aroclor-1016	B	204350924020	31-AUG-2004	250.00	275.19	pg	10	15
Aroclor-1260	B	204350924020	31-AUG-2004	250.00	274.89	pg	10	15
TCMX	B	204350924020	31-AUG-2004	50.000	51.779	pg	4	15
Decachlorobiphenyl	B	204350924020	31-AUG-2004	50.000	48.324	pg	-3	15

INITIAL CALIBRATION REPORT FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204350924002 Name: Type: (normal) Date: 31-AUG-2004 11:08 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	243_040	204350924040	ar1254	31-AUG-2004 11:08	04WS1583

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	593.91	AVRG	R		0.001684		pg	593.91	0	.99	20	
Aroclor-1254 Peak # 2	A	1087.8	AVRG	R		9.193E-4		pg	1087.8	0	.99	20	
Aroclor-1254 Peak # 3	A	1085.2	AVRG	R		9.215E-4		pg	1085.2	0	.99	20	
Aroclor-1254 Peak # 4	A	778.37	AVRG	R		0.001285		pg	778.37	0	.99	20	
Aroclor-1254 Peak # 5	A	1034.9	AVRG	R		9.663E-4		pg	1034.9	0	.99	20	
Aroclor-1254 Peak # 1	B	984.95	AVRG	R		0.001015		pg	984.95	0	.99	20	
Aroclor-1254 Peak # 2	B	1350.7	AVRG	R		7.403E-4		pg	1350.7	0	.99	20	
Aroclor-1254 Peak # 3	B	1534.5	AVRG	R		6.517E-4		pg	1534.5	0	.99	20	
Aroclor-1254 Peak # 4	B	994.17	AVRG	R		0.001006		pg	994.17	0	.99	20	
Aroclor-1254 Peak # 5	B	1413.3	AVRG	R		7.076E-4		pg	1413.3	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254347030001 Name: Type: (normal) Date: 27-AUG-2004 23:50 Inj Vol (uL): 1

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	240_014	254347030014	pcb10_2	27-AUG-2004 23:50	04WS0970
2	240_015	254347030015	pcb25_5	28-AUG-2004 00:19	04WS0960
3	240_016	254347030016	pcb100_20	28-AUG-2004 00:47	04WS1424
4	240_017	254347030017	pcb250_50	28-AUG-2004 01:15	04WS1408
5	240_018	254347030018	pcb500_100	28-AUG-2004 01:44	04WS1522
6	240_019	254347030019	pcb750_150	28-AUG-2004 02:12	04WS0964
7	240_020	254347030020	pcb1K200	28-AUG-2004 02:41	04WS0967

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	60.800	59.936	59.638	56.142	55.037	60.309	57.630	AVRG	R		0.017094		pg	58.499	4	.99	20	
Aroclor-1016 Peak # 2	A	178.00	164.28	162.24	141.25	137.34	155.90	137.30	AVRG	R		0.006504		pg	153.76	10	.99	20	
Aroclor-1016 Peak # 3	A	110.93	101.53	100.48	88.476	86.930	99.853	87.409	AVRG	R		0.010361		pg	96.514	9	.99	20	
Aroclor-1016 Peak # 4	A	83.423	70.142	71.174	62.845	61.989	71.915	62.358	AVRG	R		0.014467		pg	69.121	11	.99	20	
Aroclor-1016 Peak # 5	A	95.311	81.514	80.211	70.396	68.891	78.630	68.661	AVRG	R		0.012877		pg	77.659	12	.99	20	
Aroclor-1260 Peak # 1	A	141.71	143.71	151.05	123.29	118.40	137.14	115.18	AVRG	R		0.007523		pg	132.93	10	.99	20	
Aroclor-1260 Peak # 2	A	254.05	227.26	233.92	187.97	178.83	214.59	174.56	AVRG	R		0.004758		pg	210.17	14	.99	20	
Aroclor-1260 Peak # 3	A	118.40	103.66	111.63	90.231	86.292	103.51	84.875	AVRG	R		0.010020		pg	99.800	13	.99	20	
Aroclor-1260 Peak # 4	A	132.67	121.07	128.46	103.52	98.204	121.83	95.373	AVRG	R		0.008738		pg	114.45	13	.99	20	
Aroclor-1260 Peak # 5	A	295.64	255.88	277.81	214.68	203.06	257.84	197.62	AVRG	R		0.004112		pg	243.22	16	.99	20	
TCMX	A	3311.5	3524.6	3485.2	3078.8	3004.4	3452.6	3139.0	AVRG	R		3.044E-4		pg	3285.2	6	.99	20	
Decachlorobiphenyl	A	2222.1	1917.6	2143.6	1529.9	1586.1	1991.9	1437.6	AVRG	R		5.456E-4		pg	1832.7	17	.99	20	
Aroclor-1016 Peak # 1	B	58.900	67.279	56.484	57.986	57.561	58.528	58.549	AVRG	R		0.016856		pg	59.327	6	.99	20	
Aroclor-1016 Peak # 2	B	102.80	90.700	85.907	84.884	83.191	83.599	82.782	AVRG	R		0.011403		pg	87.695	8	.99	20	
Aroclor-1016 Peak # 3	B	200.02	197.07	179.57	172.91	169.32	172.66	163.12	AVRG	R		0.005579		pg	179.24	8	.99	20	
Aroclor-1016 Peak # 4	B	127.56	123.18	106.37	103.52	103.73	104.61	100.73	AVRG	R		0.009095		pg	109.96	10	.99	20	
Aroclor-1016 Peak # 5	B	87.028	84.850	76.906	76.693	74.522	75.249	74.224	AVRG	R		0.012740		pg	78.496	7	.99	20	
Aroclor-1260 Peak # 1	B	209.75	193.84	176.41	165.48	156.68	159.06	154.00	AVRG	R		0.005760		pg	173.60	12	.99	20	
Aroclor-1260 Peak # 2	B	221.08	205.68	192.60	178.29	167.33	170.17	164.66	AVRG	R		0.005385		pg	185.69	12	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254347030001 Name: Type: (normal) Date: 27-AUG-2004 23:50 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	136.94	131.10	117.00	113.80	107.35	110.36	105.25	AVRG	R		0.008518		pg	117.40	10	.99	20	
Aroclor-1260 Peak # 4	B	137.90	138.63	133.42	129.47	121.13	123.05	119.82	AVRG	R		0.007748		pg	129.06	6	.99	20	
Aroclor-1260 Peak # 5	B	375.15	345.27	311.76	295.07	274.40	287.81	283.59	AVRG	R		0.003221		pg	310.44	12	.99	20	
TCMX	B	3935.1	3949.4	3634.5	3517.0	3410.4	3488.8	3556.1	AVRG	R		2.746E-4		pg	3641.6	6	.99	20	
Decachlorobiphenyl	B	2998.7	2833.5	2437.1	2262.6	2254.2	2158.1	2212.2	AVRG	R		4.080E-4		pg	2450.9	14	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC22 Calname :
Calnum : 254347030001 Caldate : 27-AUG-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	254347030023	28-AUG-2004	250.00	283.36	pg	13	15
Aroclor-1260	A	254347030023	28-AUG-2004	250.00	285.39	pg	14	15
TCMX	A	254347030023	28-AUG-2004	50.000	51.487	pg	3	15
Decachlorobiphenyl	A	254347030023	28-AUG-2004	50.000	49.797	pg	0	15
Aroclor-1016	B	254347030023	28-AUG-2004	250.00	277.38	pg	11	15
Aroclor-1260	B	254347030023	28-AUG-2004	250.00	271.41	pg	9	15
TCMX	B	254347030023	28-AUG-2004	50.000	49.999	pg	0	15
Decachlorobiphenyl	B	254347030023	28-AUG-2004	50.000	44.237	pg	-12	15

INITIAL CALIBRATION REPORT FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254372214001 Name: Type: (normal) Date: 15-SEP-2004 03:47 Inj Vol (uL): 1

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	258_033	254372214033	ar1254	15-SEP-2004 03:47	04WS1701

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	98.704	AVRG	R		0.010131		pg	98.704	0	.99	20	
Aroclor-1254 Peak # 2	A	169.49	AVRG	R		0.005900		pg	169.49	0	.99	20	
Aroclor-1254 Peak # 3	A	58.697	AVRG	R		0.017037		pg	58.697	0	.99	20	
Aroclor-1254 Peak # 4	A	180.06	AVRG	R		0.005554		pg	180.06	0	.99	20	
Aroclor-1254 Peak # 5	A	126.00	AVRG	R		0.007936		pg	126.00	0	.99	20	
Aroclor-1254 Peak # 1	B	71.022	AVRG	R		0.014080		pg	71.022	0	.99	20	
Aroclor-1254 Peak # 2	B	188.26	AVRG	R		0.005312		pg	188.26	0	.99	20	
Aroclor-1254 Peak # 3	B	60.600	AVRG	R		0.016502		pg	60.600	0	.99	20	
Aroclor-1254 Peak # 4	B	243.86	AVRG	R		0.004101		pg	243.86	0	.99	20	
Aroclor-1254 Peak # 5	B	203.95	AVRG	R		0.004903		pg	203.95	0	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254382793001 Name: Type: (normal) Date: 21-SEP-2004 21:18 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	265_005	254382793005	ar1254	21-SEP-2004 21:18	04WS1701

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	110.92	AVRG	R		0.009016		pg	110.92	0	.99	20	
Aroclor-1254 Peak # 2	A	193.88	AVRG	R		0.005158		pg	193.88	0	.99	20	
Aroclor-1254 Peak # 3	A	68.278	AVRG	R		0.014646		pg	68.278	0	.99	20	
Aroclor-1254 Peak # 4	A	209.23	AVRG	R		0.004779		pg	209.23	0	.99	20	
Aroclor-1254 Peak # 5	A	148.21	AVRG	R		0.006747		pg	148.21	0	.99	20	
Aroclor-1254 Peak # 1	B	80.544	AVRG	R		0.012416		pg	80.544	0	.99	20	
Aroclor-1254 Peak # 2	B	212.43	AVRG	R		0.004707		pg	212.43	0	.99	20	
Aroclor-1254 Peak # 3	B	69.267	AVRG	R		0.014437		pg	69.267	0	.99	20	
Aroclor-1254 Peak # 4	B	276.79	AVRG	R		0.003613		pg	276.79	0	.99	20	
Aroclor-1254 Peak # 5	B	222.83	AVRG	R		0.004488		pg	222.83	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004			250.00	261.89	pg	5	15	
GC22	B	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004			250.00	294.88	pg	18	15	c+ *** Ch. A used
GC22	A	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004			500.00	506.88	pg	1	15	
GC22	B	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004			500.00	534.09	pg	7	15	

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CONTINUING CALIBRATION SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204381362004	20-SEP-2004 21:08	204350924002	31-AUG-2004			250.00	255.15	pg	2	15	
GC06	B	204381362004	20-SEP-2004 21:08	204350924002	31-AUG-2004			250.00	286.47	pg	15	15	
GC06	A	204381362018	21-SEP-2004 04:53	204350924002	31-AUG-2004			250.00	237.38	pg	-5	15	
GC06	B	204381362018	21-SEP-2004 04:53	204350924002	31-AUG-2004			250.00	264.41	pg	6	15	
GC22	A	254372214064	15-SEP-2004 20:43	254372214001	15-SEP-2004			250.00	263.77	pg	6	15	
GC22	B	254372214064	15-SEP-2004 20:43	254372214001	15-SEP-2004			250.00	264.65	pg	6	15	
GC22	A	254372214081	16-SEP-2004 04:45	254372214001	15-SEP-2004			250.00	274.88	pg	10	15	
GC22	B	254372214081	16-SEP-2004 04:45	254372214001	15-SEP-2004			250.00	230.15	pg	-8	15	
GC22	A	254382793005	21-SEP-2004 21:18	254382793001	21-SEP-2004			250.00	250.00	pg	0	15	
GC22	B	254382793005	21-SEP-2004 21:18	254382793001	21-SEP-2004			250.00	250.00	pg	0	15	
GC22	A	254382793021	22-SEP-2004 04:51	254382793001	21-SEP-2004			250.00	285.67	pg	14	15	
GC22	B	254382793021	22-SEP-2004 04:51	254382793001	21-SEP-2004			250.00	273.74	pg	9	15	

CONTINUING CALIBRATION SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	OntAmt	Units	%D	Max %D	Flags
GC22	A	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004			250.00	276.29	pg	11	15	
GC22	B	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004			250.00	292.99	pg	17	15	c+ *** Ch. A used
GC22	A	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004			500.00	526.01	pg	5	15	
GC22	B	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004			500.00	514.80	pg	3	15	

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CONTINUING CALIBRATION SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204381362003	20-SEP-2004 20:35	204350924001	30-AUG-2004	16523	16783	50.000	50.785	pg	2	15	
GC06	B	204381362003	20-SEP-2004 20:35	204350924001	30-AUG-2004	21265	25932	50.000	60.974	pg	22	15	c+ Ch. A used
GC06	A	204381362017	21-SEP-2004 04:20	204350924001	30-AUG-2004	16523	15174	100.00	91.832	pg	-8	15	
GC06	B	204381362017	21-SEP-2004 04:20	204350924001	30-AUG-2004	21265	22348	100.00	105.09	pg	5	15	
GC22	A	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004	3285.2	3318.2	50.000	50.502	pg	1	15	
GC22	B	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004	3641.6	3856.9	50.000	52.956	pg	6	15	
GC22	A	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004	3285.2	3160.3	100.00	96.198	pg	-4	15	
GC22	B	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004	3641.6	3587.0	100.00	98.501	pg	-1	15	
GC22	A	254382793002	21-SEP-2004 19:53	254347030001	27-AUG-2004	3285.2	3330.5	50.000	50.690	pg	1	15	
GC22	B	254382793002	21-SEP-2004 19:53	254347030001	27-AUG-2004	3641.6	4117.2	50.000	56.530	pg	13	15	
GC22	A	254382793019	22-SEP-2004 03:54	254347030001	27-AUG-2004	3285.2	3160.0	100.00	96.189	pg	-4	15	
GC22	B	254382793019	22-SEP-2004 03:54	254347030001	27-AUG-2004	3641.6	4055.4	100.00	111.36	pg	11	15	

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Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204381362003	20-SEP-2004 20:35	204350924001	30-AUG-2004	11264	11036	50.000	48.990	pg	-2	15	
GC06	B	204381362003	20-SEP-2004 20:35	204350924001	30-AUG-2004	11474	12886	50.000	56.151	pg	12	15	
GC06	A	204381362017	21-SEP-2004 04:20	204350924001	30-AUG-2004	11264	11112	100.00	98.650	pg	-1	15	
GC06	B	204381362017	21-SEP-2004 04:20	204350924001	30-AUG-2004	11474	13026	100.00	113.53	pg	14	15	
GC22	A	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004	1832.7	1989.4	50.000	54.275	pg	9	15	
GC22	B	254372214062	15-SEP-2004 19:47	254347030001	27-AUG-2004	2450.9	2861.8	50.000	58.383	pg	17	15	c+
GC22	A	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004	1832.7	1967.7	100.00	107.37	pg	7	15	
GC22	B	254372214079	16-SEP-2004 03:48	254347030001	27-AUG-2004	2450.9	2533.5	100.00	103.37	pg	3	15	
GC22	A	254382793002	21-SEP-2004 19:53	254347030001	27-AUG-2004	1832.7	1917.7	50.000	52.319	pg	5	15	
GC22	B	254382793002	21-SEP-2004 19:53	254347030001	27-AUG-2004	2450.9	3361.8	50.000	68.583	pg	37	15	c+
GC22	A	254382793019	22-SEP-2004 03:54	254347030001	27-AUG-2004	1832.7	1583.6	100.00	86.410	pg	-14	15	
GC22	B	254382793019	22-SEP-2004 03:54	254347030001	27-AUG-2004	2450.9	3152.0	100.00	128.60	pg	29	15	c+

Ch. B used

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Page 1 of 1

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254347030 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 27-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
013	240_013	X	hex			27-AUG-2004 23:22	1.0							
014	240_014	ICAL	pcb10_2			27-AUG-2004 23:50	1.0						1	
015	240_015	ICAL	pcb25_5			28-AUG-2004 00:19	1.0						2	
016	240_016	ICAL	pcb100_20			28-AUG-2004 00:47	1.0						3	
017	240_017	ICAL	pcb250_50			28-AUG-2004 01:15	1.0						4	
018	240_018	ICAL	pcb500_100			28-AUG-2004 01:44	1.0						5	
019	240_019	ICAL	pcb750_150			28-AUG-2004 02:12	1.0						6	
020	240_020	ICAL	pcb1K200			28-AUG-2004 02:41	1.0						7	
022	240_022	X	accu_1660			28-AUG-2004 03:37	1.0						8	
023	240_023	ICV	icv			28-AUG-2004 04:06	1.0			1			8	

61

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS1408 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1423

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204350924 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
008	243_008	X	hex			30-AUG-2004 16:11	1.0					
009	243_009	ICAL	pcb10_2			30-AUG-2004 16:44	1.0	1.0			1	
010	243_010	ICAL	pcb25_5			30-AUG-2004 18:32	1.0	1.0			2	
011	243_011	ICAL	pcb100_20			30-AUG-2004 19:05	1.0	1.0			3	
012	243_012	ICAL	pcb250_50			30-AUG-2004 19:38	1.0	1.0			4	
013	243_013	ICAL	pcb500_100			30-AUG-2004 20:11	1.0	1.0			5	
014	243_014	ICAL	pcb750_150			30-AUG-2004 20:44	1.0	1.0			6	
015	243_015	ICAL	pcb1K_200			30-AUG-2004 21:18	1.0	1.0			7	
018	243_018	ICV	accu_1660			30-AUG-2004 22:57	1.0				8	
019	243_019	X	icv			30-AUG-2004 23:31	1.0				8	
020	243_020	ICV	accu_1660			31-AUG-2004 00:04	1.0	1.0		1	9	
022	243_022	CCV	pcb250_50			31-AUG-2004 01:10	1.0	1.0		1	9	
023	243_023	X	ccv			31-AUG-2004 01:43	1.0				9	
024	243_024	CCV	ar1254			31-AUG-2004 02:17	1.0				10	
025	243_025	X	ccv			31-AUG-2004 02:50	1.0				10	
027	243_027	BLANK	QC262882	94159	Soil	31-AUG-2004 03:56	1.0	0.6702		1		
028	243_028	LCS	QC262883	94159	Soil	31-AUG-2004 04:29	1.0	0.6627		1		
029	243_029	MS	QC262884	94159	Soil	31-AUG-2004 05:03	1.0	0.6711		1		
030	243_030	MSD	QC262885	94159	Soil	31-AUG-2004 05:36	1.0	0.6671		1		
031	243_031	SAMPLE	174254-001	94159	Soil	31-AUG-2004 06:09	1.0					
032	243_032	BLANK	QC263002	94184	Soil	31-AUG-2004 06:42	1.0	0.6653		1		
033	243_033	LCS	QC263003	94184	Soil	31-AUG-2004 07:15	1.0	0.6566		1		
034	243_034	MS	QC263004	94184	Soil	31-AUG-2004 07:49	1.0	0.6649		1		
035	243_035	MSD	QC263005	94184	Soil	31-AUG-2004 08:22	1.0	0.6662		1		
036	243_036	SAMPLE	174286-001	94184	Soil	31-AUG-2004 08:55	1.0	0.6658		1		
038	243_038	CCV	pcb500_100			31-AUG-2004 10:01	1.0	1.0		1	11	
039	243_039	X	ccv			31-AUG-2004 10:34	1.0				11	
040	243_040	ICAL	ar1254			31-AUG-2004 11:08	1.0	1.0			10	
041	243_041	X	ccv			31-AUG-2004 11:41	1.0				10	
042	243_042	CCV	ar1242			31-AUG-2004 12:14	1.0				12	
043	243_043	SAMPLE	174254-001	94159	Soil	31-AUG-2004 12:47	20.0	0.6623		1		

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS0962 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1609 9=04WS1423 10=04WS1583 11=04WS0963 12=04WS1612

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204350924 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
044	243_044	SAMPLE	174158-002	94106	Soil	31-AUG-2004 14:50	1.0	0.6766			1		
045	243_045	SAMPLE	174158-003	94106	Soil	31-AUG-2004 15:23	1.0	0.672			1		
046	243_046	SAMPLE	174158-004	94106	Soil	31-AUG-2004 15:56	1.0	0.657			1		
047	243_047	SAMPLE	174158-005	94106	Soil	31-AUG-2004 16:29	1.0	0.6671			1		
048	243_048	SAMPLE	174158-006	94106	Soil	31-AUG-2004 17:03	1.0						
049	243_049	SAMPLE	174158-017	94159	Soil	31-AUG-2004 17:42	1.0						
050	243_050	SAMPLE	174158-018	94159	Soil	31-AUG-2004 18:15	1.0	0.6575			1		
051	243_051	SAMPLE	174158-019	94159	Soil	31-AUG-2004 18:48	1.0	0.6653			1		
052	243_052	SAMPLE	174158-020	94159	Soil	31-AUG-2004 19:21	1.0	0.6698			1		
054	243_054	CCV	pcb250_50			31-AUG-2004 20:28	1.0	1.0			1	9	
055	243_055	X	ccv			31-AUG-2004 21:01	1.0					9	
056	243_056	X	ar1254			31-AUG-2004 21:34	1.0					10	
057	243_057	CCV	ccv			31-AUG-2004 22:08	1.0	1.0			1	10	
060	243_060	SAMPLE	174158-021	94159	Soil	31-AUG-2004 23:47	1.0	0.6653			1		
061	243_061	SAMPLE	174158-022	94159	Soil	01-SEP-2004 00:20	1.0	0.6623			1		
062	243_062	SAMPLE	174186-001	94106	Soil	01-SEP-2004 00:54	1.0	0.6667			1		
063	243_063	SAMPLE	174186-002	94106	Soil	01-SEP-2004 01:27	1.0	0.6631			1		
064	243_064	SAMPLE	174186-003	94106	Soil	01-SEP-2004 02:00	1.0	0.6658			1		
065	243_065	SAMPLE	174186-004	94106	Soil	01-SEP-2004 02:33	1.0	0.6689			1		
066	243_066	SAMPLE	174186-005	94106	Soil	01-SEP-2004 03:07	1.0	0.6711			1		
067	243_067	SAMPLE	174186-006	94106	Soil	01-SEP-2004 03:40	1.0	0.6614			1		
068	243_068	SAMPLE	174186-007	94106	Soil	01-SEP-2004 04:13	1.0	0.6649			1		
069	243_069	SAMPLE	174186-008	94106	Soil	01-SEP-2004 04:47	1.0	0.6689			1		
071	243_071	CCV	pcb500_100			01-SEP-2004 05:53	1.0	1.0			1	11	
072	243_072	X	ccv			01-SEP-2004 06:26	1.0					11	
073	243_073	CCV	ar1254			01-SEP-2004 07:00	1.0	1.0			1	10	
074	243_074	X	ccv			01-SEP-2004 07:33	1.0					10	
076	243_076	SAMPLE	174186-009	94106	Soil	01-SEP-2004 08:39	1.0	0.6739			1		
077	243_077	SAMPLE	174053-001	93937	Water	01-SEP-2004 09:13	1.0	0.02475			1		
078	243_078	SAMPLE	174053-002	93937	Water	01-SEP-2004 09:46	1.0	0.02451			1		
079	243_079	SAMPLE	174053-003	93937	Water	01-SEP-2004 10:19	1.0	0.025			1		

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS0962 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1609 9=04WS1423 10=04WS1583 11=04WS0963 12=04WS1612

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204350924 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 30-AUG-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
080	243_080	SAMPLE	174053-004	93937	Water	01-SEP-2004 10:53	1.0	0.02475			1		
081	243_081	SAMPLE	174053-005	93937	Water	01-SEP-2004 11:26	1.0	0.025			1		
082	243_082	SAMPLE	174206-011	94159	Soil	01-SEP-2004 11:59	1.0						
083	243_083	SAMPLE	174206-035	94066	Water	01-SEP-2004 12:32	1.0	0.02475			1		
084	243_084	MSS	174206-038	94159	Soil	01-SEP-2004 13:06	1.0	0.6739			1		
085	243_085	SAMPLE	174206-039	94159	Soil	01-SEP-2004 13:39	1.0	0.6636			1		
087	243_087	X	pcb250_50			01-SEP-2004 14:46	1.0					9	
088	243_088	CCV	ccv			01-SEP-2004 15:19	1.0	1.0			1	9	
089	243_089	CCV	ar1254			01-SEP-2004 15:52	1.0	1.0			1	10	
090	243_090	X	ccv			01-SEP-2004 16:26	1.0					10	
092	243_092	SAMPLE	174158-006	94106	Soil	01-SEP-2004 18:16	1.0	0.6702			1		
093	243_093	SAMPLE	174158-017	94159	Soil	01-SEP-2004 18:49	1.0	0.6649			1		
094	243_094	SAMPLE	174206-011	94159	Soil	01-SEP-2004 19:23	1.0	0.6748		1	1		
095	243_095	SAMPLE	174110-009	93957	Soil	01-SEP-2004 19:56	5.0	0.6601			1		
096	243_096	SAMPLE	174204-005	94159	Soil	01-SEP-2004 20:29	20.0	0.6579	1		1		1:PCB126=1663.08
098	243_098	CCV	pcb500_100			01-SEP-2004 21:36	1.0	1.0			1	11	
099	243_099	X	ccv			01-SEP-2004 22:09	1.0					11	
100	243_100	CCV	ar1254			01-SEP-2004 22:42	1.0	1.0			1	10	

Stds used: 1=04WS0970 2=04WS0960 3=04WS1424 4=04WS0962 5=04WS1522 6=04WS0964 7=04WS0967 8=04WS1609 9=04WS1423 10=04WS1583 11=04WS0963 12=04WS1612

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254372214 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 14-SEP-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	258_001	X	pcb250_50			14-SEP-2004 10:55	1.0					1	
002	258_002	CCV	ccv			14-SEP-2004 11:34	1.0	1.0			1	1	
003	258_003	CCV	ar1254			14-SEP-2004 12:19	1.0					2	
005	258_005	BLANK	QC264344	94526	Soil	14-SEP-2004 13:16	1.0	0.6798		1	1		
006	258_006	LCS	QC264345	94526	Soil	14-SEP-2004 13:44	1.0	0.6536			1		
007	258_007	SAMPLE	174549-001	94526	Soil	14-SEP-2004 14:12	1.0	0.646			1		
008	258_008	SAMPLE	174549-002	94526	Soil	14-SEP-2004 14:41	1.0	0.6887			1		
009	258_009	MSS	174549-003	94526	Soil	14-SEP-2004 15:09	1.0	0.6775			1		
010	258_010	MSS	174507-005	94487	Soil	14-SEP-2004 16:19	1.0	0.6707	15		1	spk	18:PCB126=25133.6
011	258_011	MS	QC264346	94526	Soil	14-SEP-2004 16:47	1.0	0.6854			1		
012	258_012	MSD	QC264347	94526	Soil	14-SEP-2004 17:52	1.0	0.6803		1	1		
013	258_013	MSS	174507-005	94487	Soil	14-SEP-2004 18:21	20.0	0.6707	3		1	spk	1:PCB126=1587.21
015	258_015	X	ccv			14-SEP-2004 19:17	1.0					3	
016	258_016	CCV	pcb500_100			14-SEP-2004 19:46	1.0	1.0			1	3	
017	258_017	CCV	ar1254			14-SEP-2004 20:14	1.0					2	
018	258_018	X	ccv			14-SEP-2004 20:42	1.0					2	
020	258_020	BLANK	QC264420	94544	Soil	14-SEP-2004 21:39	1.0	0.6716			1		
021	258_021	LCS	QC264421	94544	Soil	14-SEP-2004 22:07	1.0	0.6662		3	1	spk	
022	258_022	SAMPLE	174594-001	94544	Soil	14-SEP-2004 22:35	1.0	0.6693			1	spk	
023	258_023	SAMPLE	174539-008	94544	Soil	14-SEP-2004 23:04	1.0	0.6729			1	spk	
024	258_024	SAMPLE	174539-012	94544	Soil	14-SEP-2004 23:32	1.0	0.6748			1	spk	
025	258_025	SAMPLE	174367-017	94432	Soil	15-SEP-2004 00:00	1.0	0.6892		4	1	spk	
026	258_026	SAMPLE	174367-018	94432	Soil	15-SEP-2004 00:29	1.0	0.672			1	spk	
027	258_027	MSS	174367-019	94432	Soil	15-SEP-2004 00:57	1.0	0.6868			1	spk	
028	258_028	SAMPLE	174367-020	94432	Soil	15-SEP-2004 01:25	1.0	0.6734			1	spk	
029	258_029	SAMPLE	174367-021	94432	Soil	15-SEP-2004 01:54	1.0	0.6575		4	1	spk	
031	258_031	X	pcb250_50			15-SEP-2004 02:50	1.0					1	
032	258_032	CCV	ccv			15-SEP-2004 03:19	1.0	1.0			1	1	
033	258_033	CCV	ar1254 — ICAL 1pt.			15-SEP-2004 03:47	1.0	1.0			1	2	
034	258_034	X	ccv			15-SEP-2004 04:15	1.0					2	

mcm 9/29/04

Stds used: 1=04WS1423 2=04WS1701 3=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254372214 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 14-SEP-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
035	258_035	X	hex			15-SEP-2004 04:44	1.0						
036	258_036	SAMPLE	174551-001	94544	Soil	15-SEP-2004 05:12	1.0	0.6734			1	spk	
037	258_037	SAMPLE	174551-002	94544	Soil	15-SEP-2004 05:40	1.0	0.6702			1	spk	
038	258_038	MSS	174551-003	94544	Soil	15-SEP-2004 06:08	1.0	0.6729			1	spk	
039	258_039	SAMPLE	174551-004	94544	Soil	15-SEP-2004 06:37	1.0	0.6662			1	spk	
040	258_040	SAMPLE	174551-005	94544	Soil	15-SEP-2004 07:05	1.0	0.6627			1	spk	
041	258_041	SAMPLE	174551-006	94544	Soil	15-SEP-2004 07:33	1.0	0.6698			1	spk	
042	258_042	SAMPLE	174551-007	94544	Soil	15-SEP-2004 08:02	1.0	0.668			1	spk	
043	258_043	MS	QC264422	94544	Soil	15-SEP-2004 08:30	1.0	0.6658			1		
044	258_044	MSD	QC264423	94544	Soil	15-SEP-2004 08:58	1.0	0.664			1		
046	258_046	X	pcb500_100			15-SEP-2004 09:55	1.0	1.0			1	3	
047	258_047	LCS	QC264421	94544	Soil	15-SEP-2004 12:39	1.0	0.6662		4	1	spk	
048	258_048	CCV	ar1254			15-SEP-2004 13:07	1.0	1.0			1	2	
049	258_049	CCV	pcb500_100			15-SEP-2004 13:36	1.0	1.0			1	3	
051	258_051	SAMPLE	174541-004	94526	Soil	15-SEP-2004 14:32	1.0	0.6734		4	1		
052	258_052	SAMPLE	174541-008	94526	Soil	15-SEP-2004 15:01	1.0	0.6614		3	1		
053	258_053	SAMPLE	174541-012	94526	Soil	15-SEP-2004 15:29	1.0	0.6588		2	1		
054	258_054	SAMPLE	174541-016	94526	Soil	15-SEP-2004 15:57	1.0	0.6729		1	1		
055	258_055	BLANK	QC264302	94516	Oil	15-SEP-2004 16:26	1.0	50.0			1		
056	258_056	BS	QC264303	94516	Oil	15-SEP-2004 16:54	1.0	50.0	2	4	1	spk	
057	258_057	BSD	QC264304	94516	Oil	15-SEP-2004 17:22	1.0	50.0	2	4	1	spk	
058	258_058	SAMPLE	174535-001	94516	Oil	15-SEP-2004 17:53	1.0	49.50	1		1	spk	
059	258_059	SAMPLE	174444-001	94516	Oil	15-SEP-2004 18:22	1.0	49.51			1	spk	
060	258_060	SAMPLE	174536-001	94516	Oil	15-SEP-2004 18:50	1.0	48.71	1		1	spk	
062	258_062	CCV	pcb250_50			15-SEP-2004 19:47	1.0	1.0	2		1	1	
063	258_063	X	ccv			15-SEP-2004 20:15	1.0					1	
064	258_064	CCV	ar1254			15-SEP-2004 20:43	1.0	1.0			1	2	
065	258_065	X	ar1254			15-SEP-2004 21:12	1.0	1.0			1	2	
067	258_067	BLANK	QC264629	94591	Soil	15-SEP-2004 22:08	1.0	0.6693			1		
068	258_068	LCS	QC264630	94591	Soil	15-SEP-2004 22:37	1.0	0.6618			1		

Stds used: 1=04WS1423 2=04WS1701 3=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254372214 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 14-SEP-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
069	258_069	SAMPLE	174609-003	94591	Soil	15-SEP-2004 23:05	1.0	0.6557			1		
070	258_070	SAMPLE	174609-004	94591	Soil	15-SEP-2004 23:33	1.0	0.6596			1		
071	258_071	SAMPLE	174609-005	94591	Soil	16-SEP-2004 00:02	1.0	0.6575			1		
072	258_072	SAMPLE	174631-001	94591	Soil	16-SEP-2004 00:30	1.0	0.6906			1		
073	258_073	SAMPLE	174631-002	94591	Soil	16-SEP-2004 00:58	1.0	0.6845			1		
074	258_074	SAMPLE	174631-003	94591	Soil	16-SEP-2004 01:26	1.0	0.6653			1		
075	258_075	SAMPLE	174631-005	94591	Soil	16-SEP-2004 01:55	1.0	0.6515			1		
076	258_076	SAMPLE	174631-006	94591	Soil	16-SEP-2004 02:23	1.0	0.6803			1		
078	258_078	X	CCV			16-SEP-2004 03:20	1.0					3	
079	258_079	CCV	pcb500_100			16-SEP-2004 03:48	1.0	1.0			1	3	
080	258_080	X	ar1254			16-SEP-2004 04:16	1.0	1.0			1	2	
081	258_081	CCV	ccv			16-SEP-2004 04:45	1.0	1.0			1	2	
083	258_083	BLANK	QC264795	94637	Wipe	16-SEP-2004 05:41	1.0	200.0			1		
084	258_084	BS	QC264796	94637	Wipe	16-SEP-2004 06:09	1.0	200.0			1		
085	258_085	BSD	QC264797	94637	Wipe	16-SEP-2004 06:38	1.0	200.0		3	1	spk	
086	258_086	SAMPLE	174620-001	94637	Wipe	16-SEP-2004 07:06	1.0	200.0		1	1		
087	258_087	MSS	174507-005	94487	Soil	16-SEP-2004 07:34	40.0	0.6707	1		1	spk 2:PCB126=1013.34	
088	258_088	SAMPLE	174587-005	94591	Soil	16-SEP-2004 08:03	1.0						
089	258_089	SAMPLE	174587-006	94591	Soil	16-SEP-2004 08:31	1.0						
090	258_090	SAMPLE	174587-007	94591	Soil	16-SEP-2004 08:59	1.0						
091	258_091	SAMPLE	174587-009	94591	Soil	16-SEP-2004 09:28	1.0						
092	258_092	SAMPLE	174587-010	94591	Soil	16-SEP-2004 09:56	1.0						
094	258_094	CCV	pcb250_50			16-SEP-2004 10:52	1.0	1.0			1	1	
095	258_095	X	ccv			16-SEP-2004 11:21	1.0					1	
096	258_096	CCV	ar1254			16-SEP-2004 11:49	1.0	1.0			1	2	
097	258_097	X	ccv			16-SEP-2004 12:17	1.0					2	

Stds used: 1=04WS1423 2=04WS1701 3=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204381362 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 20-SEP-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	264_002	X	pcb250_50			20-SEP-2004 20:02	1.0					1	
003	264_003	CCV	ccv			20-SEP-2004 20:35	1.0	1.0	2		1	1	
004	264_004	CCV	ar1254			20-SEP-2004 21:08	1.0	1.0			1	2	
005	264_005	X	ccv			20-SEP-2004 21:42	1.0					2	
007	264_007	MS	QC264631	94591	Soil	20-SEP-2004 22:48	1.0	0.6693			1		
008	264_008	MSD	QC264632	94591	Soil	20-SEP-2004 23:21	1.0	0.6618		2	1		
009	264_009	MSS	174582-002	94591	Soil	20-SEP-2004 23:54	1.0	0.6636	1		1		
010	264_010	SAMPLE	174610-005	94646	Soil	21-SEP-2004 00:27	1.0	0.6645	1		1		
011	264_011	SAMPLE	174608-001	94727	Soil	21-SEP-2004 01:01	1.0	0.668	8		1		10:PCB126=2474.56
012	264_012	SAMPLE	174608-012	94727	Soil	21-SEP-2004 01:34	1.0	0.6716	1		1		
013	264_013	SAMPLE	174608-013	94727	Soil	21-SEP-2004 02:07	1.0	0.6645			1		
014	264_014	SAMPLE	174732-001	94727	Soil	21-SEP-2004 02:40	1.0	0.6627			1		
016	264_016	X	pcb500_100			21-SEP-2004 03:47	1.0	1.0			1	3	
017	264_017	CCV	ccv			21-SEP-2004 04:20	1.0	1.0			1	3	
018	264_018	CCV	ar1254			21-SEP-2004 04:53	1.0	1.0			1	2	
019	264_019	X	ccv			21-SEP-2004 05:26	1.0					2	
021	264_021	BLANK	QC264640	94594	Soil	21-SEP-2004 06:32	1.0	0.8406		1	1		
022	264_022	MDL	174603-001	94594	Soil	21-SEP-2004 07:06	1.0	0.8409		6	1	spk	
023	264_023	MDL	174603-002	94594	Soil	21-SEP-2004 07:39	1.0	0.8386		3	1		
024	264_024	MDL	174603-003	94594	Soil	21-SEP-2004 08:12	1.0	0.8375			1		
025	264_025	MDL	174603-004	94594	Soil	21-SEP-2004 08:45	1.0	0.8395			1		
026	264_026	MDL	174603-005	94594	Soil	21-SEP-2004 09:18	1.0	0.8259			1		
027	264_027	MDL	174603-006	94594	Soil	21-SEP-2004 09:52	1.0	0.8386		1	1		
028	264_028	MDL	174603-007	94594	Soil	21-SEP-2004 10:25	1.0	0.8372		1	1		
029	264_029	MDL	174603-008	94594	Soil	21-SEP-2004 10:58	1.0	0.8226		3	1		
031	264_031	CCV	pcb250_50			21-SEP-2004 12:04	1.0	1.0	2		1	1	
032	264_032	X	ccv			21-SEP-2004 12:38	1.0					1	
036	264_036	BLANK	QC265282	94752	Soil	21-SEP-2004 15:24	1.0	0.6662			1		
037	264_037	LCS	QC265283	94752	Soil	21-SEP-2004 15:57	1.0	0.6575			1		
038	264_038	SAMPLE	174524-003	94752	Soil	21-SEP-2004 16:30	1.0	0.6636		2	1		

Stds used: 1=04WS1521 2=04WS1701 3=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204381362 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 20-SEP-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
042	264_042	SAMPLE	174703-001	94752	Miscel	21-SEP-2004 19:28	10.0	0.6757			1		
044	264_044	CCV	ar1254			21-SEP-2004 20:34	1.0					2	
045	264_045	X	ccv			21-SEP-2004 21:07	1.0					2	
046	264_046	CCV	pcb500_100			21-SEP-2004 21:41	1.0	1.0			1	3	
047	264_047	X	ccv			21-SEP-2004 22:14	1.0					3	
049	264_049	SAMPLE	174587-006	94591	Soil	22-SEP-2004 09:47	2.0	0.6752			1		
050	264_050	SAMPLE	174582-001	94591	Soil	22-SEP-2004 11:04	1.0	0.6725			1		

69

Stds used: 1=04WS1521 2=04WS1701 3=04WS0963
Flags used: spk=5% spike rule

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254382793 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 21-SEP-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	265_002	CCV	pcb250_50			21-SEP-2004 19:53	1.0	1.0	2		1	1	
003	265_003	X	ccv			21-SEP-2004 20:21	1.0					1	
004	265_004	X	ccv			21-SEP-2004 20:50	1.0					1	
005	265_005	CCV	ar1254 – ICAL - 1 PT.			21-SEP-2004 21:18	1.0	1.0			1	2	
006	265_006	X	ccv mar 9/29/04			21-SEP-2004 21:46	1.0					2	
008	265_008	BLANK	QC265282	94752	Soil	21-SEP-2004 22:43	1.0	0.6662			1		
009	265_009	LCS	QC265283	94752	Soil	21-SEP-2004 23:11	1.0	0.6575			1		
010	265_010	MS	QC264631	94591	Soil	21-SEP-2004 23:39	1.0	0.6693			1		
011	265_011	MSD	QC264632	94591	Soil	22-SEP-2004 00:08	1.0	0.6618			1		
012	265_012	SAMPLE	174750-001	94752	Soil	22-SEP-2004 00:36	1.0	0.6596	1		1		
013	265_013	SAMPLE	174750-002	94752	Soil	22-SEP-2004 01:04	1.0	0.664			1		
014	265_014	SAMPLE	174750-003	94752	Soil	22-SEP-2004 01:32	1.0	0.664			1		
015	265_015	SAMPLE	174524-003	94752	Soil	22-SEP-2004 02:01	1.0	0.6636			1		
016	265_016	SAMPLE	174582-001	94591	Soil	22-SEP-2004 02:29	1.0	0.6725			1		
017	265_017	SAMPLE	174587-006	94591	Soil	22-SEP-2004 02:57	2.0	0.6752	1		1		
019	265_019	CCV	pcb500_100			22-SEP-2004 03:54	1.0	1.0	2		1	3	
020	265_020	X	ccv			22-SEP-2004 04:22	1.0					3	
021	265_021	CCV	ar1254			22-SEP-2004 04:51	1.0	1.0			1	2	
022	265_022	X	ccv			22-SEP-2004 05:19	1.0					2	
024	265_024	MSS	174693-003	94752	Soil	22-SEP-2004 06:16	1.0						
025	265_025	MS	QC265284	94752	Soil	22-SEP-2004 06:44	1.0						
026	265_026	MSD	QC265285	94752	Soil	22-SEP-2004 07:12	1.0						
027	265_027	SAMPLE	174744-001	94752	Soil	22-SEP-2004 07:40	1.0	0.6649			1		
028	265_028	SAMPLE	174608-001	94727	Soil	22-SEP-2004 08:09	5.0	0.668	3	1	1		3:PCB126=1190.39
029	265_029	SAMPLE	174608-015	94752	Soil	22-SEP-2004 08:37	1.0						
030	265_030	SAMPLE	174608-016	94752	Soil	22-SEP-2004 09:05	1.0						
031	265_031	SAMPLE	174608-018	94752	Soil	22-SEP-2004 09:34	1.0						
032	265_032	SAMPLE	174608-021	94752	Soil	22-SEP-2004 10:02	1.0						
033	265_033	SAMPLE	174608-022	94752	Soil	22-SEP-2004 10:30	1.0						
035	265_035	X	pcb250_50			22-SEP-2004 11:27	1.0	1.0			1	1	
036	265_036	CCV	ccv			22-SEP-2004 11:55	1.0	1.0	2		1	1	

Stds used: 1=04WS1423 2=04WS1701 3=04WS0963

SEQUENCE SUMMARY FOR 174631 PCB Soil
Curtis & Tompkins Laboratories

equence: 254382793 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 21-SEP-2004
nalytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
49	265_049	CCV	pcb500_100			22-SEP-2004 18:03	1.0			3	

Stds used: 1=04WS1423 2=04WS1701 3=04WS0963

Reporting Summary for 174631 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
174631-001	Aroclor-1016	GC22	A	09/16/04 00:30
174631-001	Aroclor-1221	GC22	A	09/16/04 00:30
174631-001	Aroclor-1232	GC22	A	09/16/04 00:30
174631-001	Aroclor-1242	GC22	A	09/16/04 00:30
174631-001	Aroclor-1248	GC22	A	09/16/04 00:30
174631-001	Aroclor-1254	GC22	A	09/16/04 00:30
174631-001	Aroclor-1260	GC22	A	09/16/04 00:30
174631-001	TCMX	GC22	A	09/16/04 00:30
174631-001	Decachlorobiphenyl	GC22	A	09/16/04 00:30
174631-002	Aroclor-1016	GC22	A	09/16/04 00:58
174631-002	Aroclor-1221	GC22	A	09/16/04 00:58
174631-002	Aroclor-1232	GC22	A	09/16/04 00:58
174631-002	Aroclor-1242	GC22	A	09/16/04 00:58
174631-002	Aroclor-1248	GC22	A	09/16/04 00:58
174631-002	Aroclor-1254	GC22	A	09/16/04 00:58
174631-002	Aroclor-1260	GC22	A	09/16/04 00:58
174631-002	TCMX	GC22	A	09/16/04 00:58
174631-002	Decachlorobiphenyl	GC22	A	09/16/04 00:58
174631-003	Aroclor-1016	GC22	A	09/16/04 01:26
174631-003	Aroclor-1221	GC22	A	09/16/04 01:26
174631-003	Aroclor-1232	GC22	A	09/16/04 01:26
174631-003	Aroclor-1242	GC22	A	09/16/04 01:26
174631-003	Aroclor-1248	GC22	A	09/16/04 01:26
174631-003	Aroclor-1254	GC22	A	09/16/04 01:26
174631-003	Aroclor-1260	GC22	A	09/16/04 01:26
174631-003	TCMX	GC22	A	09/16/04 01:26
174631-003	Decachlorobiphenyl	GC22	A	09/16/04 01:26
174631-005	Aroclor-1016	GC22	A	09/16/04 01:55
174631-005	Aroclor-1221	GC22	A	09/16/04 01:55
174631-005	Aroclor-1232	GC22	A	09/16/04 01:55
174631-005	Aroclor-1242	GC22	A	09/16/04 01:55
174631-005	Aroclor-1248	GC22	A	09/16/04 01:55
174631-005	Aroclor-1254	GC22	A	09/16/04 01:55
174631-005	Aroclor-1260	GC22	A	09/16/04 01:55
174631-005	TCMX	GC22	A	09/16/04 01:55
174631-005	Decachlorobiphenyl	GC22	A	09/16/04 01:55
174631-006	Aroclor-1016	GC22	A	09/16/04 02:23
174631-006	Aroclor-1221	GC22	A	09/16/04 02:23
174631-006	Aroclor-1232	GC22	A	09/16/04 02:23
174631-006	Aroclor-1242	GC22	A	09/16/04 02:23
174631-006	Aroclor-1248	GC22	A	09/16/04 02:23
174631-006	Aroclor-1254	GC22	A	09/16/04 02:23
174631-006	Aroclor-1260	GC22	A	09/16/04 02:23
174631-006	TCMX	GC22	A	09/16/04 02:23
174631-006	Decachlorobiphenyl	GC22	A	09/16/04 02:23
QC264629	Aroclor-1016	GC22	A	09/15/04 22:08
QC264629	Aroclor-1221	GC22	A	09/15/04 22:08
QC264629	Aroclor-1232	GC22	A	09/15/04 22:08
QC264629	Aroclor-1242	GC22	A	09/15/04 22:08

Reporting Summary for 174631 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC264629	Aroclor-1248	GC22	A	09/15/04 22:08
QC264629	Aroclor-1254	GC22	A	09/15/04 22:08
QC264629	Aroclor-1260	GC22	A	09/15/04 22:08
QC264629	TCMX	GC22	A	09/15/04 22:08
QC264629	Decachlorobiphenyl	GC22	A	09/15/04 22:08
QC264630	Aroclor-1254	GC22	A	09/15/04 22:37
QC264630	TCMX	GC22	A	09/15/04 22:37
QC264630	Decachlorobiphenyl	GC22	A	09/15/04 22:37
QC264631	Aroclor-1254	GC22	A	09/21/04 23:39
QC264631	TCMX	GC22	A	09/21/04 23:39
QC264631	Decachlorobiphenyl	GC22	A	09/21/04 23:39
QC264632	Aroclor-1254	GC22	A	09/22/04 00:08
QC264632	TCMX	GC22	A	09/22/04 00:08
QC264632	Decachlorobiphenyl	GC22	A	09/22/04 00:08

Curtis & Tompkins Laboratories Sample Preparation Summary 15-SEP-2004 16:17

Batch Number : 94591
Date Extracted: 14-SEP-2004
Extracted by : Coral E. Weese
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343B
Spike #2 ID : 04WS1711A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174582-001		Tetra Tech FW	Soil	14.87	g	10	0.672495	1		.025	0		PCB	3665A	
174582-002		Tetra Tech FW	Soil	15.07	g	10	0.663570	1		.025	0		PCB	3665A	mss
174587-001		Tetra Tech FW	Soil	15.12	g	10	0.661376	1		.025	0		PCB	3665A	
174587-003		Tetra Tech FW	Soil	15.13	g	10	0.660939	1		.025	0		PCB	3665A	
174587-004		Tetra Tech FW	Soil	15.16	g	10	0.659631	1		.025	0		PCB	3665A	
174587-005		Tetra Tech FW	Soil	14.97	g	10	0.668003	1		.025	0		PCB	3665A	
174587-006		Tetra Tech FW	Soil	14.81	g	10	0.675219	1		.025	0		PCB	3665A	
174587-007		Tetra Tech FW	Soil	14.83	g	10	0.674309	1		.025	0		PCB	3665A	
174587-009		Tetra Tech FW	Soil	15.18	g	10	0.658762	1		.025	0		PCB	3665A	
174587-010		Tetra Tech FW	Soil	15.04	g	10	0.664894	1		.025	0		PCB	3665A	
174609-003		URS Corporation	Soil	15.25	g	10	0.655738	1		.025	0		PCB	3665A	
174609-004		URS Corporation	Soil	15.16	g	10	0.659631	1		.025	0		PCB	3665A	
174609-005		URS Corporation	Soil	15.21	g	10	0.657462	1		.025	0		PCB	3665A	
174631-001		Treadwell & Rollo	Soil	14.48	g	10	0.690608	1		.025	0		PCB	3665A	
174631-002		Treadwell & Rollo	Soil	14.61	g	10	0.684463	1		.025	0		PCB	3665A	
174631-003		Treadwell & Rollo	Soil	15.03	g	10	0.665336	1		.025	0		PCB	3665A	
174631-005		Treadwell & Rollo	Soil	15.35	g	10	0.651466	1		.025	0		PCB	3665A	
174631-006		Treadwell & Rollo	Soil	14.7	g	10	0.680272	1		.025	0		PCB	3665A	
QC264629	MB		Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	
QC264630	LCS		Soil	15.11	g	10	0.661813	1		.025	.025		PCB	3665A	
QC264631	MS	of 174582-002	Soil	14.94	g	10	0.669344	1		.025	.025		PCB	3665A	
QC264632	MSD	of 174582-002	Soil	15.11	g	10	0.661813	1		.025	.025		PCB	3665A	

Prep Chemist: Coral Weese Reviewed By: [illegible] Date: 9/15/04

Relinquished By: [illegible] 9/15/04 Received By: [illegible] Date: 09/15/04

Curtis & Tompkins, Ltd.

PCB SOIL PREP LOG

LIMS Batch No: 94591
LIMS Analysis PCB
Extracted by: CW
Date Extracted: 9/14/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☑ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
174582-001	14.87	10.0	~~MSS~~ CW 9/15/04
-002	15.07		~~MSS~~ CW 9/15/04 MSS
174587-001	15.12		
-003	15.13		
-004	15.16		
-005	14.97		
-006	14.81		
-007	14.83		
-009	15.18		
-010	15.04		
174609-003	15.25		
-004	15.16		
-005	15.21		
MB QC 244629	14.94		
LCS 30	15.11		
MS 31	14.94		
MSD 32	15.11		
174631-001	14.48		
-002	14.61		
-003	15.03		
-005	15.35		
-006	14.70		
	30	9/15/04	

CW 9/14/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	KA EM440284 1	CW 9/14/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 040603	
0.025 mL of surrogate solution was added to all samples	04W5134 3B	
0.025 mL of spike solution 1354 15-15 was added to all spikes	04W5711A	
1:1 CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman 028	
PFE (ASE) / soxhlets on at:	NA	
PFE (ASE) / soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	✓	✓
Concentrated to volumes noted above after exchange to Hexane Lot#	[illegible]	[illegible]
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	[illegible]	
Centrifuged for 1 min. 10mL transferred to labelled vial		

9/14/04

Continued from page _____
Continued on page _____

Reviewed by / Date

PROJECT SOIL ALIQUOT

Sample ID	WEIGHT (g)	ANALYSIS	COMMENTS
174582-001A	14.87	PCB	SHELLY, VERY WET
-002A	15.07		MSS
MSD	15.11		GLASS
MS	14.94		
MB	14.94		
LCS	15.11		
174587-001A	15.12	PCB	WET, ROCKY
-003A	15.13		CLAY
-004A	15.16		
-005A	14.97		MUDDY
-006A	14.81		CLAY LIKE, WET
-007A	14.83		
-009A	15.18		
-010A	15.04		TOO WET
174609-003	15.25	PCB	COMP A-D
-004	15.16		
-005	15.21		
174609-003	15.17	8081	COMP A-D
-004	15.10		
-005	15.02		
174609-003	50.43	TEHM	COMP A-D
-004	MC 9/14 ~~50.48~~		
-005	50.28		
174609-003	30.31	8270	COMP A-D
-004	29.55		
-005	MC 9/14 ~~50.99~~ 30.46		

Continued on Page

9/14/14

PROJECT Soil Aliquot

Notebook No. BK999

Continued From Page ✓

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174582-001A	15.17	8081	MSS
-002A	14.86		
MS	15.13		EM4402842
MSD	15.02		
LCS	15.09		
MB	14.86		
174631-001	15.14	8081	added after 3/8 out page
-002	15.26		
-003	14.86		
-005	15.25		
-006	15.18		
174631-001	14.48	PCB	
-002	14.61		
-003	15.03		
-005	15.35		
-006	14.70		

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14 A	GC14 B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0					04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	08/12/03 5.4	08/12/03 3.2			08/02/03 2.3	08/02/03 2.0	07/26/03 2.6	07/26/03 1.8
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9					04/07/04 2.2	04/07/04 2.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX125[0.5]	Batch#:	94604
Lab ID:	174631-001	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL	MDL
Antimony	ND	2.8	0.18
Arsenic	2.5	0.23	0.093
Barium	13	0.47	0.012
Beryllium	0.11	0.094	0.0058
Cadmium	ND	0.23	0.027
Chromium	42	0.47	0.031
Cobalt	5.0	0.94	0.071
Copper	3.0	0.47	0.054
Lead	1.4	0.14	0.060
Molybdenum	ND	0.94	0.058
Nickel	20	0.94	0.062
Selenium	0.85	0.23	0.16
Silver	ND	0.23	0.092
Thallium	ND	0.23	0.20
Vanadium	34	0.47	0.042
Zinc	13	0.94	0.16

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX124[0.5]	Batch#:	94604
Lab ID:	174631-002	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
Antimony	ND	2.8	0.18
Arsenic	3.1	0.23	0.092
Barium	10	0.46	0.012
Beryllium	0.12	0.092	0.0058
Cadmium	ND	0.23	0.025
Chromium	45	0.46	0.030
Cobalt	5.6	0.92	0.071
Copper	2.9	0.46	0.053
Lead	1.6	0.14	0.060
Molybdenum	ND	0.92	0.058
Nickel	23	0.92	0.062
Selenium	0.75	0.23	0.16
Silver	ND	0.23	0.091
Thallium	ND	0.23	0.19
Vanadium	33	0.46	0.041
Zinc	14	0.92	0.15

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX123[0.5]	Batch#:	94604
Lab ID:	174631-003	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
Antimony	ND	2.1	0.14
Arsenic	2.7	0.17	0.069
Barium	8.8	0.35	0.0094
Beryllium	0.11	0.069	0.0044
Cadmium	ND	0.17	0.020
Chromium	46	0.35	0.023
Cobalt	5.1	0.69	0.053
Copper	3.0	0.35	0.040
Lead	1.4	0.10	0.045
Molybdenum	ND	0.69	0.044
Nickel	22	0.69	0.047
Selenium	1.1	0.17	0.13
Silver	ND	0.17	0.069
Thallium	ND	0.17	0.15
Vanadium	43	0.35	0.031
Zinc	14	0.69	0.11

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX122[0.5]	Batch#:	94604
Lab ID:	174631-004	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
Antimony	ND	2.7	0.18
Arsenic	4.6	0.22	0.089
Barium	150	0.45	0.012
Beryllium	0.43	0.089	0.0055
Cadmium	ND	0.22	0.025
Chromium	130	0.45	0.030
Cobalt	61	0.89	0.069
Copper	18	0.45	0.051
Lead	4.4	0.13	0.058
Molybdenum	ND	0.89	0.055
Nickel	270	0.89	0.060
Selenium	2.0	0.22	0.16
Silver	ND	0.22	0.088
Thallium	ND	0.22	0.19
Vanadium	53	0.45	0.040
Zinc	39	0.89	0.16

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX127[0.5]	Batch#:	94604
Lab ID:	174631-005	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL	MDL
Antimony	ND	2.8	0.19
Arsenic	3.2	0.23	0.092
Barium	17	0.46	0.012
Beryllium	0.11	0.092	0.0058
Cadmium	ND	0.23	0.026
Chromium	41	0.46	0.031
Cobalt	4.9	0.92	0.070
Copper	3.8	0.46	0.053
Lead	2.5	0.14	0.060
Molybdenum	ND	0.92	0.058
Nickel	20	0.92	0.062
Selenium	0.88	0.23	0.16
Silver	ND	0.23	0.091
Thallium	ND	0.23	0.20
Vanadium	36	0.46	0.041
Zinc	16	0.92	0.15

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX126[0.5]	Batch#:	94604
Lab ID:	174631-006	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
Antimony	ND	2.4	0.17
Arsenic	3.1	0.20	0.081
Barium	15	0.41	0.011
Beryllium	0.10	0.081	0.0051
Cadmium	ND	0.20	0.023
Chromium	38	0.41	0.027
Cobalt	4.8	0.81	0.063
Copper	2.9	0.41	0.047
Lead	2.1	0.12	0.052
Molybdenum	ND	0.81	0.051
Nickel	19	0.81	0.054
Selenium	0.86	0.20	0.15
Silver	ND	0.20	0.080
Thallium	ND	0.20	0.18
Vanadium	37	0.41	0.036
Zinc	14	0.81	0.14

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC264672	Batch#:	94604
Matrix:	Soil	Prepared:	09/14/04
Units:	mg/Kg	Analyzed:	09/15/04
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	ND	0.25	0.10
Barium	ND	0.50	0.013
Beryllium	ND	0.10	0.0063
Cadmium	ND	0.25	0.028
Chromium	ND	0.50	0.033
Cobalt	ND	1.0	0.076
Copper	ND	0.50	0.057
Lead	ND	0.15	0.065
Molybdenum	ND	1.0	0.062
Nickel	ND	1.0	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	ND	0.50	0.045
Zinc	ND	1.0	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	94604
Units:	mg/Kg	Prepared:	09/14/04
Basis:	as received	Analyzed:	09/15/04
Diln Fac:	1.000		

Type: BS Lab ID: QC264673

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	102.5	103	75-125
Arsenic	50.00	52.50	105	75-125
Barium	100.0	100.0	100	75-125
Beryllium	2.500	2.685	107	75-125
Cadmium	10.00	10.05	101	75-125
Chromium	100.0	105.0	105	75-125
Cobalt	25.00	25.95	104	75-125
Copper	12.50	13.10	105	75-125
Lead	100.0	103.0	103	75-125
Molybdenum	20.00	20.90	105	75-125
Nickel	25.00	25.45	102	75-125
Selenium	50.00	50.00	100	75-125
Silver	10.00	10.45	105	75-125
Thallium	50.00	50.50	101	75-125
Vanadium	25.00	26.55	106	75-125
Zinc	25.00	25.20	101	75-125

Type: BSD Lab ID: QC264674

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	101.0	101	75-125	1	30
Arsenic	50.00	52.00	104	75-125	1	30
Barium	100.0	99.00	99	75-125	1	30
Beryllium	2.500	2.660	106	75-125	1	30
Cadmium	10.00	9.950	100	75-125	1	30
Chromium	100.0	103.5	104	75-125	1	30
Cobalt	25.00	25.70	103	75-125	1	30
Copper	12.50	12.90	103	75-125	2	30
Lead	100.0	101.5	102	75-125	1	30
Molybdenum	20.00	21.00	105	75-125	0	30
Nickel	25.00	25.10	100	75-125	1	30
Selenium	50.00	49.35	99	75-125	1	30
Silver	10.00	10.35	104	75-125	1	30
Thallium	50.00	51.00	102	75-125	1	30
Vanadium	25.00	26.25	105	75-125	1	30
Zinc	25.00	24.90	100	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX125[0.5]	Batch#:	94604
MSS Lab ID:	174631-001	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Type: MS Moisture: 2%
Lab ID: QC264675

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.8659	108.6	87.93	80	75-125
Arsenic	2.514	54.28	54.82	96	75-125
Barium	12.97	108.6	112.4	92	75-125
Beryllium	0.1105	2.714	2.877	102	75-125
Cadmium	<0.02653	10.86	9.770	90	75-125
Chromium	41.80	108.6	152.0	101	75-125
Cobalt	5.008	27.14	31.32	97	75-125
Copper	2.982	13.57	16.34	98	75-125
Lead	1.353	108.6	105.3	96	75-125
Molybdenum	0.1446	21.71	21.33	98	75-125
Nickel	19.85	27.14	45.27	94	75-125
Selenium	0.8472	54.28	50.86	92	75-125
Silver	<0.09184	10.86	10.58	98	75-125
Thallium	<0.2041	54.28	50.21	93	75-125
Vanadium	33.80	27.14	61.33	101	75-125
Zinc	13.11	27.14	38.70	94	75-125

Type: MSD Moisture: 2%
Lab ID: QC264676

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	101.0	83.35	82	75-125	2	30
Arsenic	50.52	51.02	96	75-125	0	30
Barium	101.0	108.6	95	75-125	3	30
Beryllium	2.526	2.687	102	75-125	0	30
Cadmium	10.10	9.093	90	75-125	0	30
Chromium	101.0	141.9	99	75-125	2	30
Cobalt	25.26	29.60	97	75-125	0	30
Copper	12.63	15.56	100	75-125	1	30
Lead	101.0	99.52	97	75-125	1	30
Molybdenum	20.21	20.05	99	75-125	1	30
Nickel	25.26	43.70	94	75-125	1	30
Selenium	50.52	48.49	94	75-125	2	30
Silver	10.10	9.952	99	75-125	1	30
Thallium	50.52	46.63	92	75-125	0	30
Vanadium	25.26	60.11	104	75-125	1	30
Zinc	25.26	37.23	96	75-125	1	30

RPD= Relative Percent Difference

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

ıstid : MET07
ɜqnum : 74373370021
ilename : tr248203
DF : 1.0
DF : 45.87
ın type : MSS
amplenum: 174631-001
atrix : Soil
atchnum : 94604
nj : 15-SEP-2004 09:03
nits : ug/L

Instid : MET07
Seqnum : 74373370024
Filename : tr248207
IDF : 1.0
PDF : 45.87
Run type : PDS
Samplenum: QC264678
Matrix : Soil
Batchnum : 94604
Inj : 15-SEP-2004 09:28

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	18.50	2000	1910	95	16-120	u
Arsenic	53.70	1000	1010	96	62-120	u
Barium	277.0	2000	2100	91	51-137	u
Beryllium	2.360	50.000000000001	52.40	100	70-120	u
Cadmium	ND	200	179.0	90	61-120	u
Calcium	*** usable MSS data not found ***					
Chromium	893.0	2000	2830	97	60-120	u
Cobalt	107.0	500.000000000001	585.0	96	56-120	u
Copper	63.70	250	306.0	97	47-144	u
Iron	*** usable MSS data not found ***					
Lead	28.90	2000	1930	95	47-126	u
··gnesium	48680	20000	71010	112	44-152	
··anese	2810	500.000000000001	3340	106	62-131	:
·olybdenum	3.090	400	396.0	98	57-120	u
Nickel	424.0	500.000000000001	882.0	92	41-138	u
Selenium	18.10	1000	973.0	95	35-122	u
Silver	ND	200	194.0	97	71-120	u
Thallium	ND	1000	940.0	94	53-120	u
Vanadium	722.0	500.000000000001	1220	100	48-136	u
Zinc	280.0	500.000000000001	746.0	93	38-144	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

nstid : MET07
eqnum : 74373370021
'ilename : tr248203
DF : 1.0
'DF : 45.87
:un type : MSS
amplenum: 174631-001
latrix : Soil
atchnum : 94604
:nj : 15-SEP-2004 09:03
Jnits : mg/Kg

Instid : MET07
Seqnum : 74373370022
Filename : tr248205
IDF : 5.0
PDF : 45.87
Run type : SER
Samplenum: QC264677
Matrix : Soil
Batchnum : 94604
Inj : 15-SEP-2004 09:16

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	*** usable MSS data not found ***						
Antimony	ND	2.75	ND	13.8	--	10	u
Arsenic	2.46	0.229	2.24	1.15	--	10	r
Barium	12.7	0.459	12.4	2.29	3	10	u
Beryllium	0.108	0.0917	ND	0.459	--	10	u
Cadmium	ND	0.229	ND	1.15	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	41.0	0.459	41.3	2.29	1	10	u
Cobalt	4.91	0.917	5.07	4.59	3	10	u
Copper	2.92	0.459	3.53	2.29	21*	10	u
Iron	*** usable MSS data not found ***						
Lead	1.33	0.138	1.44	0.688	--	10	u
Magnesium	2230	22.9	2250	115	1	10	
Manganese	129	0.459	128	2.29	0	10	
Molybdenum	ND	0.917	ND	4.59	--	10	u
Nickel	19.4	0.917	19.9	4.59	2	10	u
Selenium	0.830	0.229	ND	1.15	--	10	u
Silver	ND	0.229	ND	1.15	--	10	u
Thallium	ND	0.229	ND	1.15	--	10	u
Vanadium	33.1	0.459	33.0	2.29	0	10	u
Zinc	12.8	0.917	13.2	4.59	3	10	u
Titanium	*** usable MSS data not found ***						

r=RSD out u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

ıstid : MET07
:qnum : 74373370021
.lename : tr248203
)F : 1.0
)F : 45.87
ın type : MSS
amplenum: 174631-001
atrix : Soil
atchnum : 94604
ıj : 15-SEP-2004 09:03
ıits : mg/Kg

Instid : MET07
Seqnum : 74373370023
Filename : tr248206
IDF : 5.0
PDF : 45.87
Run type : SER
Samplenum: QC264677
Matrix : Soil
Batchnum : 94604
Inj : 15-SEP-2004 09:24

nalyte	MSS	RL	SER	RL	%D	MAX %D	Flags
.luminum	*** usable MSS data not found ***						
ıntimony	ND	2.75	ND	13.8	--	10	
ırsenic	2.46	0.229	2.50	1.15	--	10	r u
ıarium	12.7	0.459	12.8	2.29	1	10	
ɜeryllium	0.108	0.0917	ND	0.459	--	10	
:admium	ND	0.229	ND	1.15	--	10	
:alcium	*** usable MSS data not found ***						
:hromium	41.0	0.459	42.7	2.29	4	10	
:obalt	4.91	0.917	5.25	4.59	7	10	
Copper	2.92	0.459	3.65	2.29	25*	10	
Iron	*** usable MSS data not found ***						
Lead	1.33	0.138	1.52	0.688	--	10	
Magnesium	2230	22.9	2340	115	5	10	
Manganese	129	0.459	133	2.29	3	10	
Molybdenum	ND	0.917	ND	4.59	--	10	
Nickel	19.4	0.917	20.6	4.59	6	10	
Selenium	0.830	0.229	ND	1.15	--	10	
ɜilver	ND	0.229	ND	1.15	--	10	
:hallium	ND	0.229	ND	1.15	--	10	
Vanadium	33.1	0.459	34.2	2.29	3	10	
Zinc	12.8	0.917	13.7	4.59	7	10	
Titanium	*** usable MSS data not found ***						

r=RSD out u=use

:andardization Rpt. 09/15/04 06:45:31 AM page 1

:thod: 6010B Standard: blank
ın Time: 09/15/04 06:41:22

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.009	.005	-.002	.000	-.241	.005	.001
SDev	.013	.002	.001	.001	.001	.000	.000
%RSD	141.	37.2	53.8	265.	.259	4.01	30.0
#1	.000	.004	-.002	.001	-.241	.005	.001
#2	-.018	.006	-.001	-.000	-.240	.005	.001

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.002	.014	-.005	.000	.001	-.005
SDev	.000	.002	.010	.004	.001	.001	.004
%RSD	28.5	85.7	71.8	71.0	590.	35.3	88.0
#1	-.001	.004	.007	-.002	-.000	.002	-.008
#2	-.001	.001	.021	-.007	.001	.001	-.002

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.002	-.002	-.006	-.000	.042	.0594	-.0058
SDev	.006	.001	.002	.001	.000	.0011	.0001
%RSD	267.	60.0	32.0	3140.	.607	1.899	1.338
#1	.006	-.001	-.005	.001	.042	.0602	-.0058
#2	-.002	-.002	-.007	-.001	.041	.0586	-.0059

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0035	-.0007	-.001	.282
SDev	.0020	.0008	.001	.002
%RSD	55.08	112.9	101.	.702
#1	-.0022	-.0001	-.000	.284
#2	-.0049	-.0013	-.002	.281

Method: 6010B Standard: cst hi
Run Time: 09/15/04 06:45:57

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.47	.829	.321	17.7	3.17	1.33	.273
SDev	.01	.003	.002	.2	.04	.02	.004
%RSD	.890	.346	.542	1.03	1.26	1.30	1.27
#1	1.46	.827	.320	17.5	3.14	1.32	.271
#2	1.48	.831	.323	17.8	3.20	1.34	.276

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.867	.519	1.03	1.02	2.42	2.20	.356
SDev	.009	.005	.00	.01	.06	.02	.000
%RSD	1.09	1.05	.241	.576	2.44	1.10	.126
#1	.861	.515	1.03	1.01	2.37	2.18	.356
#2	.874	.523	1.03	1.02	2.46	2.21	.355

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.394	.312	.226	.973	.234	.1753	.3413
SDev	.008	.004	.005	.012	.002	.0014	.0042
%RSD	2.06	1.35	2.27	1.23	1.01	.8231	1.239
#1	.388	.309	.222	.964	.232	.1743	.3383
#2	.399	.315	.229	.981	.235	.1764	.3443

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1351	.2000	1.25	7.57
SDev	.0020	.0023	.01	.08
%RSD	1.459	1.160	1.04	1.10
#1	.1337	.1984	1.24	7.52
#2	.1365	.2017	1.26	7.63

andardization Report 09/15/04 06:49:43 AM page 1

'thod: 6010B Slope = Conc(SIR)/IR

ement	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
›2068	206.831	Multiple	Standards	673.897	6.15649	09/15/04 06:45:57
›206A	206.832	Multiple	Standards	1189.76	5.89446	09/15/04 06:45:57
;1890	189.042	Multiple	Standards	1549.72	2.36495	09/15/04 06:45:57
ı4934	493.409	Multiple	Standards	56.5964	-.014370	09/15/04 06:45:57
;3130	313.042	Multiple	Standards	28.3040	6.81728	09/15/04 06:45:57
‡2265	226.502	Multiple	Standards	75.5498	-.380013	09/15/04 06:45:57
:2677	267.716	Multiple	Standards	734.310	-.544423	09/15/04 06:45:57
›2286	228.616	Multiple	Standards	577.368	.507789	09/15/04 06:45:57
ı3247	324.754	Multiple	Standards	387.208	-.867902	09/15/04 06:45:57
›2203	220.351	Multiple	Standards	491.181	-6.73017	09/15/04 06:45:57
›220A	220.352	Multiple	Standards	485.127	2.40740	09/15/04 06:45:57
›2020	202.030	Multiple	Standards	413.864	-.062328	09/15/04 06:45:57
i2316	231.604	Multiple	Standards	227.843	-.312409	09/15/04 06:45:57
e1960	196.021	Multiple	Standards	1386.84	6.94004	09/15/04 06:45:57
e196A	196.022	Multiple	Standards	1275.97	-2.78990	09/15/04 06:45:57
g3280	328.068	Multiple	Standards	319.309	.529869	09/15/04 06:45:57
l1908	190.864	Multiple	Standards	2175.29	13.0260	09/15/04 06:45:57
_2924	292.402	Multiple	Standards	514.085	.012943	09/15/04 06:45:57
n2138	213.856	Multiple	Standards	538.292	-22.4315	09/15/04 06:45:57
.13082	308.215	Multiple	Standards	8785.38	-521.797	09/15/04 06:45:57
'a3179	317.933	Multiple	Standards	5761.29	33.4901	09/15/04 06:45:57
'e2714	271.441	Multiple	Standards	7547.64	26.7381	09/15/04 06:45:57
lg2790	279.079	Multiple	Standards	9959.49	6.93130	09/15/04 06:45:57
[illegible]576	257.610	Multiple	Standards	80.1742	.087079	09/15/04 06:45:57
[illegible] sum	220.353	NONE	NONE	1.00000	.000000	*09/15/04 06:45:57
;b sum	206.838	NONE	NONE	1.00000	.000000	*09/15/04 06:45:57
;e sum	196.026	NONE	NONE	1.00000	.000000	*09/15/04 06:45:57
:i3349	334.941	Multiple	Standards	137.123	-38.6884	09/15/04 06:45:57

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

nstid : MET07
eqnum : 74373370001

Run Name :
Filename : tr248181

Injected : 15-SEP-2004 06:50
Caltype :

tandards: 04WS1530

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1020.000	ug/L	2	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	510.0000	ug/L	2	5	
Barium	1000.000	1010.000	ug/L	1	5	
Beryllium	100.0000	102.0000	ug/L	2	5	
Cadmium	100.0000	102.0000	ug/L	2	5	
Calcium	2000.000	2046.000	ug/L	2	5	
Chromium	200.0000	204.0000	ug/L	2	5	
Cobalt	500.0000	510.0000	ug/L	2	5	
Copper	200.0000	203.0000	ug/L	2	5	
Iron	1000.000	1018.000	ug/L	2	5	
Lead	500.0000	507.0000	ug/L	1	5	
Magnesium	2000.000	2039.000	ug/L	2	5	
Manganese	100.0000	102.0000	ug/L	2	5	
Molybdenum	1000.000	1030.000	ug/L	3	5	
Nickel	500.0000	511.0000	ug/L	2	5	
Selenium	500.0000	503.0000	ug/L	1	5	
Silver	100.0000	102.0000	ug/L	2	5	
Thallium	500.0000	509.0000	ug/L	2	5	
Titanium	1000.000	1020.000	ug/L	2	5	
Vanadium	500.0000	510.0000	ug/L	2	5	
Zinc	100.0000	102.0000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74373370002

Run Name :
Filename : tr248182

Injected : 15-SEP-2004 06:54
Caltype :

Standards: 04WS1577

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	519.2000	ug/L	4	10	
Antimony	500.0000	521.0000	ug/L	4	10	
Arsenic	250.0000	260.0000	ug/L	4	10	
Barium	500.0000	504.0000	ug/L	1	10	
Beryllium	50.00000	51.70000	ug/L	3	10	
Cadmium	50.00000	52.30000	ug/L	5	10	
Calcium	1000.000	1067.000	ug/L	7	10	
Chromium	100.0000	105.0000	ug/L	5	10	
Cobalt	250.0000	254.0000	ug/L	2	10	
Copper	100.0000	106.0000	ug/L	6	10	
Iron	500.0000	538.4000	ug/L	8	10	
Lead	250.0000	262.0000	ug/L	5	10	
Magnesium	1000.000	1054.000	ug/L	5	10	
Manganese	50.00000	50.80000	ug/L	2	10	
Molybdenum	500.0000	525.0000	ug/L	5	10	
Nickel	250.0000	259.0000	ug/L	4	10	
Selenium	250.0000	260.0000	ug/L	4	10	
Silver	50.00000	52.10000	ug/L	4	10	
Thallium	250.0000	258.0000	ug/L	3	10	
Titanium	500.0000	529.0000	ug/L	6	10	
Vanadium	250.0000	256.0000	ug/L	2	10	
Zinc	50.00000	53.20000	ug/L	6	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74373370004 Filename : tr248184 Injected : 15-SEP-2004 07:16
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	106.1000	ug/L	6	50	
Antimony	60.00000	61.50000	ug/L	3	50	
Arsenic	5.000000	4.910000	ug/L	-2	50	
Barium	10.00000	10.30000	ug/L	3	50	
Beryllium	2.000000	1.880000	ug/L	-6	50	
Cadmium	5.000000	5.080000	ug/L	2	50	
Calcium	200.0000	234.8000	ug/L	17	50	
Chromium	10.00000	10.80000	ug/L	8	50	
Cobalt	20.00000	20.80000	ug/L	4	50	
Copper	10.00000	12.00000	ug/L	20	50	
Iron	100.0000	141.6000	ug/L	42	50	
Lead	3.000000	3.110000	ug/L	4	50	
Magnesium	200.0000	221.9000	ug/L	11	50	
Manganese	10.00000	10.60000	ug/L	6	50	
Molybdenum	20.00000	21.30000	ug/L	7	50	
Nickel	20.00000	21.30000	ug/L	7	50	
Selenium	5.000000	6.810000	ug/L	36	50	
Silver	5.000000	5.540000	ug/L	11	50	
Thallium	5.000000	6.840000	ug/L	37	50	
Vanadium	10.00000	11.00000	ug/L	10	50	
Zinc	20.00000	22.50000	ug/L	13	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74373370014

Run Name :
Filename : tr248196

IDF : 1.0
Injected : 15-SEP-2004 08:16
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	513.0000	ug/L	3	10	
Antimony		500.0000	507.0000	ug/L	1	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	49.20000	ug/L	-2	10	
Cadmium		50.00000	51.20000	ug/L	2	10	
Calcium		1000.000	1167.000	ug/L	17	10	c+ **
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	552.5000	ug/L	11	10	c+ **
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1081.000	ug/L	8	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	254.0000	ug/L	2	10	
Selenium		250.0000	248.0000	ug/L	-1	10	
Silver		50.00000	51.00000	ug/L	2	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	51.70000	ug/L	3	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74373370025

Run Name :
Filename : tr248208

IDF : 1.0
Injected : 15-SEP-2004 09:35
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	709.7000	ug/L	-5	10	
Antimony		750.0000	742.0000	ug/L	-1	10	
Arsenic		375.0000	357.0000	ug/L	-5	10	
Barium		750.0000	690.0000	ug/L	-8	10	
Beryllium		75.00000	75.70000	ug/L	1	10	
Cadmium		75.00000	69.60000	ug/L	-7	10	
Calcium		1500.000	1748.000	ug/L	17	10	c+ **
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	794.9000	ug/L	6	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1595.000	ug/L	6	10	
Manganese		75.00000	73.40000	ug/L	-2	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	359.0000	ug/L	-4	10	
Selenium		375.0000	365.0000	ug/L	-3	10	
Silver		75.00000	74.70000	ug/L	0	10	
Thallium		375.0000	339.0000	ug/L	-10	10	
Titanium		750.0000	763.0000	ug/L	2	10	
Vanadium		375.0000	368.0000	ug/L	-2	10	
Zinc		75.00000	72.40000	ug/L	-3	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74373370037

Run Name :
Filename : tr248220

IDF : 1.0
Injected : 15-SEP-2004 10:33
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	522.0000	ug/L	4	10	
Antimony		500.0000	497.0000	ug/L	-1	10	
Arsenic		250.0000	249.0000	ug/L	0	10	
Barium		500.0000	475.0000	ug/L	-5	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	48.50000	ug/L	-3	10	
Calcium		1000.000	1236.000	ug/L	**24**	10	c+ **
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	578.7000	ug/L	**16**	10	c+ **
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1116.000	ug/L	**12**	10	c+ **
Manganese		50.00000	50.10000	ug/L	0	10	
Molybdenum		500.0000	511.0000	ug/L	2	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	252.0000	ug/L	1	10	
Silver		50.00000	50.40000	ug/L	1	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	525.0000	ug/L	5	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	53.30000	ug/L	7	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74373370049

Run Name :
Filename : tr248234

IDF : 1.0
Injected : 15-SEP-2004 11:49
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	767.9000	ug/L	2	10	
Antimony		750.0000	760.0000	ug/L	1	10	
Arsenic		375.0000	379.0000	ug/L	1	10	
Barium		750.0000	737.0000	ug/L	-2	10	
Beryllium		75.00000	78.20000	ug/L	4	10	
Cadmium		75.00000	74.80000	ug/L	0	10	
Calcium		1500.000	1743.000	ug/L	**16**	10	c+ **
Chromium		150.0000	156.0000	ug/L	4	10	
Cobalt		375.0000	379.0000	ug/L	1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	803.1000	ug/L	7	10	
Lead		375.0000	383.0000	ug/L	2	10	
Magnesium		1500.000	1663.000	ug/L	**11**	10	c+ **
Manganese		75.00000	74.10000	ug/L	-1	10	
Molybdenum		750.0000	761.0000	ug/L	1	10	
Nickel		375.0000	383.0000	ug/L	2	10	
Selenium		375.0000	375.0000	ug/L	0	10	
Silver		75.00000	76.90000	ug/L	3	10	
Thallium		375.0000	361.0000	ug/L	-4	10	
Titanium		750.0000	794.0000	ug/L	6	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	78.10000	ug/L	4	10	

+=high bias c=CCV

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74373370003 Run Name:
Filename: tr248183 Run Type: ICB

Injected: 15-SEP-2004 07:03

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[2.3900]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[1.3600]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.7500]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.3200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74373370015 Run Name:
Filename: tr248197 Run Type: CCB

Injected: 15-SEP-2004 08:26

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[30.550]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.0900]	10.00000	ug/L	<RL
Iron	[23.620]	100.0000	ug/L	<RL
Lead	[1.3900]	3.000000	ug/L	<RL
Magnesium	[12.690]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.1900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.3200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	µg/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74373370026 Run Name:
Filename: tr248209 Run Type: CCB

Injected: 15-SEP-2004 09:39

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[47.330]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.9500]	10.00000	ug/L	<RL
Iron	[36.270]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[13.910]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[4.0700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.9000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	µg/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74373370038 Run Name:
Filename: tr248221 Run Type: CCB

Injected: 15-SEP-2004 10:37

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[46.900]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.7200]	10.00000	ug/L	<RL
Iron	[42.190]	100.0000	ug/L	<RL
Lead	[1.2600]	3.000000	ug/L	<RL
Magnesium	[22.730]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.1900]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
[illegible]anium	[3.9300]	10.00000	ug/L	<RL
[illegible]dium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74373370050 Run Name:
Filename: tr248235 Run Type: CCB

Injected: 15-SEP-2004 11:53

Analyte	QuantAmt	RL	Units	Reg Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.5000]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[38.400]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[19.760]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[13.340]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[6.3300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.7400]	10.00000	ug/L	<RL
Vanadium	[0.7670]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 74373370005
Filename: tr248185

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 15-SEP-2004 07:20

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[6.1600]	60.00000	ug/L	<RL
Arsenic	[3.6800]	5.000000	ug/L	<RL
Barium	[0.0850]	10.00000	ug/L	<RL
Beryllium	[-0.787]	2.000000	ug/L	<RL
Cadmium	[-3.480]	5.000000	ug/L	<RL
Chromium	[3.3600]	10.00000	ug/L	<RL
Cobalt	[0.5950]	10.00000	ug/L	<RL
Copper	[-3.110]	10.00000	ug/L	<RL
Lead	[1.0800]	3.000000	ug/L	<RL
Manganese	[2.3200]	10.00000	ug/L	<RL
Molybdenum	[2.0800]	20.00000	ug/L	<RL
Nickel	[2.5200]	20.00000	ug/L	<RL
Selenium	[2.1500]	5.000000	ug/L	<RL
Silver	[-0.013]	5.000000	ug/L	<RL
Thallium	[-4.610]	5.000000	ug/L	<RL
Titanium	27.70000	10.00000	ug/L	<RL a+ ***
Vanadium	[-2.100]	10.00000	ug/L	<RL
Zinc	[0.6910]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	532000	ug/L	106
Calcium	500000	485500.	ug/L	97
Iron	200000	187700	ug/L	94
Magnesium	500000	544000	ug/L	109

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74373370006

Run Name :
Filename : tr248186

Injected : 15-SEP-2004 07:24
Caltype :

Standards: 04WS1703

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	545300.0	ug/L	9		
Antimony	500.0000	551.0000	ug/L	10	20	
Arsenic	500.0000	538.0000	ug/L	8	20	
Barium	500.0000	491.0000	ug/L	-2	20	
Beryllium	500.0000	519.0000	ug/L	4	20	
Cadmium	1000.000	958.0000	ug/L	-4	20	
Calcium	500000.0	496900.0	ug/L	-1		
Chromium	500.0000	491.0000	ug/L	-2	20	
Cobalt	500.0000	490.0000	ug/L	-2	20	
Copper	500.0000	528.0000	ug/L	6	20	
Iron	200000.0	191600.0	ug/L	-4		
[illegible]d	1000.000	1000.000	ug/L	0	20	
[illegible]esium	500000.0	557400.0	ug/L	11		
Manganese	500.0000	493.0000	ug/L	-1	20	
Molybdenum	500.0000	517.0000	ug/L	3	20	
Nickel	1000.000	936.0000	ug/L	-6	20	
Selenium	500.0000	542.0000	ug/L	8	20	
Silver	1000.000	903.0000	ug/L	-10	20	
Thallium	500.0000	503.0000	ug/L	1	20	
Titanium	20000.00	22300.00	ug/L	12		
Vanadium	500.0000	503.0000	ug/L	1	20	
Zinc	1000.000	1020.000	ug/L	2	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 15-SEP-2004

Sequence: 74373370 Instrument: MET07 TJA Trace ICP
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr248181	CS				15-SEP-2004 06:50	1.0	1.0			1	
002	tr248182	ICV				15-SEP-2004 06:54	1.0	1.0			2	
003	tr248183	ICB				15-SEP-2004 07:03	1.0	1.0				
004	tr248184	CRI				15-SEP-2004 07:16	1.0	1.0			3	
005	tr248185	ICSA				15-SEP-2004 07:20	1.0	1.0	1		4	4:MG=544000
006	tr248186	ICSAB				15-SEP-2004 07:24	1.0	1.0			5	5:MG=557400
007	tr248187	BLANK	QC264667	94603	Miscel	15-SEP-2004 07:31	1.0	50.0	1			
008	tr248190	BS	QC264668	94603	Miscel	15-SEP-2004 07:47	1.0	50.0	3			
009	tr248191	BSD	QC264669	94603	Miscel	15-SEP-2004 07:51	1.0	50.0	3			
010	tr248192	MSS	174519-001	94603	Miscel	15-SEP-2004 07:56	1.0	45.87	3			
011	tr248193	MSS	174519-001	94603	Miscel	15-SEP-2004 08:01	1.0	45.87	2			
012	tr248194	MS	QC264670	94603	Miscel	15-SEP-2004 08:05	1.0	49.02	2			
013	tr248195	MSD	QC264671	94603	Miscel	15-SEP-2004 08:09	1.0	53.76	2			
014	tr248196	CCV				15-SEP-2004 08:16	1.0	1.0	2		6	
015	tr248197	CCB				15-SEP-2004 08:26	1.0	1.0				
016	tr248198	SAMPLE	174535-001	94603	Oil	15-SEP-2004 08:34	1.0	50.51	1			1:ZN=6230.00
017	tr248199	SAMPLE	174535-001	94603	Oil	15-SEP-2004 08:41	1.0	50.51				
018	tr248200	BLANK	QC264672	94604	Soil	15-SEP-2004 08:49	1.0	50.0	1			
019	tr248201	BS	QC264673	94604	Soil	15-SEP-2004 08:53	1.0	50.0	3			
020	tr248202	BSD	QC264674	94604	Soil	15-SEP-2004 08:57	1.0	50.0	3			
021	tr248203	MSS	174631-001	94604	Soil	15-SEP-2004 09:03	1.0	45.87	4			3:FE=241200
022	tr248205	SER	QC264677	94604	Soil	15-SEP-2004 09:16	5.0	45.87		1		
023	tr248206	SER	QC264677	94604	Soil	15-SEP-2004 09:24	5.0	45.87		1		
024	tr248207	PDS	QC264678	94604	Soil	15-SEP-2004 09:28	1.0	45.87			7 8	4:FE=264700
025	tr248208	CCV				15-SEP-2004 09:35	1.0	1.0	1		9	
026	tr248209	CCB				15-SEP-2004 09:39	1.0	1.0				
027	tr248210	MS	QC264675	94604	Soil	15-SEP-2004 09:43	1.0	53.19	1			3:FE=233600
028	tr248211	MSD	QC264676	94604	Soil	15-SEP-2004 09:48	1.0	49.50	1			4:FE=252100
029	tr248212	SAMPLE	174610-001	94604	Soil	15-SEP-2004 09:53	1.0	50.51	1			4:CA=975700
030	tr248213	SAMPLE	174610-002	94604	Soil	15-SEP-2004 09:57	1.0	51.55	1			6:CA=692400
031	tr248214	SAMPLE	174610-001	94604	Soil	15-SEP-2004 10:03	10.0	50.51				1:CA=109500

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1703 6=04WS1578 7=04SS171 8=04SS172 9=04WS1679

Analyst: _____ Date: _____

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 15-SEP-2004

Sequence: 74373370 Instrument: MET07 TJA Trace ICP
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	tr248215	SAMPLE	174610-002	94604	Soil	15-SEP-2004 10:08	10.0	51.55				
033	tr248216	SAMPLE	174610-003	94604	Soil	15-SEP-2004 10:12	1.0	50.51	1			6:MG=505100
034	tr248217	SAMPLE	174610-003	94604	Soil	15-SEP-2004 10:17	10.0	50.51				
035	tr248218	SAMPLE	174610-004	94604	Soil	15-SEP-2004 10:21	1.0	45.45	1			6:FE=638900
036	tr248219	SAMPLE	174610-004	94604	Soil	15-SEP-2004 10:26	10.0	45.45				
037	tr248220	CCV				15-SEP-2004 10:33	1.0	1.0	3		6	
038	tr248221	CCB				15-SEP-2004 10:37	1.0	1.0				
039	tr248222	X				15-SEP-2004 10:42	1.0					
040	tr248223	SAMPLE	174610-005	94604	Soil	15-SEP-2004 10:45	1.0	38.46	2			7:CA=2474000
041	tr248224	SAMPLE	174610-005	94604	Soil	15-SEP-2004 10:50	10.0	38.46	1			3:CA=361200
042	tr248227	SAMPLE	174610-005	94604	Soil	15-SEP-2004 11:09	25.0	38.46				1:CA=153700
043	tr248228	SAMPLE	174611-001	94604	Soil	15-SEP-2004 11:14	1.0	44.64				2:FE=266800
044	tr248229	SAMPLE	174616-001	94604	Miscel	15-SEP-2004 11:27	1.0	52.08				
045	tr248230	SAMPLE	174616-002	94604	Miscel	15-SEP-2004 11:31	1.0	49.02				
046	tr248231	SAMPLE	174616-003	94604	Miscel	15-SEP-2004 11:35	1.0	52.63				
047	tr248232	SAMPLE	174616-004	94604	Miscel	15-SEP-2004 11:39	1.0	46.30				
048	tr248233	SAMPLE	174616-005	94604	Miscel	15-SEP-2004 11:43	1.0	51.55				
049	tr248234	CCV				15-SEP-2004 11:49	1.0	1.0	2		9	
050	tr248235	CCB				15-SEP-2004 11:53	1.0	1.0				
051	tr248236	SAMPLE	174616-006	94604	Miscel	15-SEP-2004 11:57	1.0	50.0				
052	tr248237	SAMPLE	174631-002	94604	Soil	15-SEP-2004 12:01	1.0	45.45				3:FE=259500
053	tr248238	SAMPLE	174631-003	94604	Soil	15-SEP-2004 12:05	1.0	33.33				3:FE=438600
054	tr248239	SAMPLE	174631-004	94604	Soil	15-SEP-2004 12:12	1.0	37.04				5:FE=672100
055	tr248240	SAMPLE	174631-005	94604	Soil	15-SEP-2004 12:16	1.0	44.64				2:FE=292700
056	tr248241	SAMPLE	174631-006	94604	Soil	15-SEP-2004 12:20	1.0	39.06				2:FE=335700
057	tr248242	BLANK	QC264688	94607	WET Le	15-SEP-2004 12:25	10.0	5.0	2			
058	tr248243	BS	QC264689	94607	WET Le	15-SEP-2004 12:30	1.0	1.0	4	1		
059	tr248244	BSD	QC264690	94607	WET Le	15-SEP-2004 12:34	1.0	1.0	4			
060	tr248245	CCV				15-SEP-2004 12:41	1.0	1.0	3		6	
061	tr248246	CCB				15-SEP-2004 12:49	1.0	1.0				
062	tr248247	MSS	174500-001	94607	WET Le	15-SEP-2004 12:53	10.0	5.0	5			

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1703 6=04WS1578 7=04SS171 8=04SS172 9=04WS1679

Analyst: Date:

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 15-SEP-2004

Sequence: 74373370 Instrument: MET07 TJA Trace ICP
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	tr248248	SER	QC264693	94607	WET Le	15-SEP-2004 12:58	50.0	5.0	1			
064	tr248249	SDUP	QC264691	94607	WET Le	15-SEP-2004 13:02	10.0	5.0	1			
065	tr248250	SSPIKE	QC264692	94607	WET Le	15-SEP-2004 13:06	10.0	5.0	1			
066	tr248251	SAMPLE	174531-001	94607	WET Le	15-SEP-2004 13:11	10.0	5.0				
067	tr248252	SAMPLE	174563-001	94607	WET Le	15-SEP-2004 13:15	10.0	5.0				
068	tr248253	SAMPLE	174557-001	94607	WET Le	15-SEP-2004 13:19	10.0	5.0			1:ZN=3050.00	
069	tr248254	SAMPLE	174557-002	94607	WET Le	15-SEP-2004 13:24	10.0	5.0				
070	tr248255	SAMPLE	174557-003	94607	WET Le	15-SEP-2004 13:28	10.0	5.0				
071	tr248256	ICSAB				15-SEP-2004 13:34	1.0	1.0			5	5:MG=584800
072	tr248257	CCV				15-SEP-2004 13:38	1.0	1.0	4		9	
073	tr248258	CCB				15-SEP-2004 13:44	1.0	1.0				

111

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1703 6=04WS1578 7=04SS171 8=04SS172 9=04WS1679

Analyst: _____ Date: 8/15/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 174631 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	PB	MO	NI	SE	AG	TL	V	ZN
174631-001	MET07	09/15/04 09:03	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174631-002	MET07	09/15/04 12:01	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174631-003	MET07	09/15/04 12:05	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174631-004	MET07	09/15/04 12:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174631-005	MET07	09/15/04 12:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
174631-006	MET07	09/15/04 12:20	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC264672	MET07	09/15/04 08:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC264673	MET07	09/15/04 08:53	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC264674	MET07	09/15/04 08:57	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC264675	MET07	09/15/04 09:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC264676	MET07	09/15/04 09:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC264677	MET07	09/15/04 09:16	5.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC264677	MET07	09/15/04 09:24	5.0		+														
QC264678	MET07	09/15/04 09:28	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 15-SEP-2004 08:10

Batch Number : 94604
Date Extracted: 14-SEP-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174610-001			Tetra Tech FW	Soil	.99	g	50	50.505051	1					T26/ICP		
174610-002			Tetra Tech FW	Soil	.97	g	50	51.546392	1					T26/ICP		
174610-003			Tetra Tech FW	Soil	.99	g	50	50.505051	1					T26/ICP		
174610-004			Tetra Tech FW	Soil	1.1	g	50	45.454545	1					T26/ICP		
174610-005			Tetra Tech FW	Soil	1.3	g	50	38.461538	1					T26/ICP		
174611-001			URS Corporation	Soil	1.12	g	50	44.642857	1					T26/ICP		
174616-001			ConocoPhillips Company	Miscell.	.96	g	50	52.083333	1					V		
174616-002			ConocoPhillips Company	Miscell.	1.02	g	50	49.019608	1					V		
174616-003			ConocoPhillips Company	Miscell.	.95	g	50	52.631579	1					V		
174616-004			ConocoPhillips Company	Miscell.	1.08	g	50	46.296296	1					V		
174616-005			ConocoPhillips Company	Miscell.	.97	g	50	51.546392	1					V		
174616-006			ConocoPhillips Company	Miscell.	1	g	50	50.000000	1					V		
174631-001			Treadwell & Rollo	Soil	1.09	g	50	45.871560	1					T26/ICP		mss
174631-002			Treadwell & Rollo	Soil	1.1	g	50	45.454545	1					T26/ICP		
174631-003			Treadwell & Rollo	Soil	1.5	g	50	33.333333	1					T26/ICP		
174631-004			Treadwell & Rollo	Soil	1.35	g	50	37.037037	1					T26/ICP		
174631-005			Treadwell & Rollo	Soil	1.12	g	50	44.642857	1					T26/ICP		
174631-006			Treadwell & Rollo	Soil	1.28	g	50	39.062500	1					T26/ICP		
QC264672	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC264673	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC264674	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC264675	MS	of 174631-001		Soil	.94	g	50	53.191489	1		.5	.5		ICAP		
QC264676	MSD	of 174631-001		Soil	1.01	g	50	49.504950	1		.5	.5		ICAP		
QC264677	SER	of 174631-001		Soil	1.09	g	50	45.871560	1					ICAP		
QC264678	PDS	of 174631-001		Soil	1.09	g	50	45.871560	1					ICAP		

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 94604
Date Digested: 09/14/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 2000
Page 6

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BK QC 264672	Ø	50.0	Y	
* BS 264673				
* BSD 264674				
* 174691-001 MS A	0.94			
* 001 MSD	1.01			
174616-001 W 9/14/04	0.96			Comp 3 jars.
- 002	1.02			
- 003	0.95			
- 004	1.08			
- 005	0.97			
- 006	1.00			
174691-001 A MSS	1.09			Sample from end labeled "B"
- 002	1.10			
- 003	1.50			
- 004	1.35			
- 005	1.12			
- 006	1.28			
~~174632-014~~ 174610-001B	0.99			~~Comp 001, 002, 003~~
- 015 - 002	0.97			004, 005, 006
9/14 - 016 - 003	0.99			W 9/14/04 007, 008
W - 017 - 004A	1.10			009, 010
~~- 018~~ - 005B	1.30			~~011, 012, 013~~
174611-001	1.12			comp 4 cores

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	VV 9/14/04
0.5 mL of spike solution was added to all spikes	045171 *	
	045172 *	
1:1 HNO3	A26032-083004	
concentrated HNO3	A26037- JT Baker	
3mL 30% hydrogen peroxide	43287349 VWR	
concentrated HCl	A21033- JT Baker	
☒ filtered thru' Whatman # 541	E5166057	

9/14/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050

Analyte	Units	MET01		MET07	
Aluminum	mg/Kg	07/26/04	1.5	07/21/04	0.52
Antimony	mg/Kg	07/20/04	1.3	07/21/04	0.20
Arsenic	mg/Kg	07/26/04	2.8	07/20/04	0.10
Barium	mg/Kg	07/27/04	0.098	07/21/04	0.013
Beryllium	mg/Kg	07/20/04	0.029	07/21/04	0.0063
Cadmium	mg/Kg	07/20/04	0.14	07/21/04	0.028
Calcium	mg/Kg	07/26/04	2.8	07/21/04	0.58
Chromium	mg/Kg	07/20/04	0.29	07/21/04	0.033
Cobalt	mg/Kg	07/20/04	0.39	07/21/04	0.076
Copper	mg/Kg	07/20/04	0.11	07/21/04	0.057
Iron	mg/Kg	07/20/04	1.5	07/21/04	0.80
Lead	mg/Kg	07/26/04	7.9	07/20/04	0.065
Magnesium	mg/Kg	07/20/04	1.5	07/21/04	0.52
Manganese	mg/Kg	07/20/04	0.11	07/20/04	0.11
Molybdenum	mg/Kg	07/20/04	0.43	07/21/04	0.062
Nickel	mg/Kg	07/20/04	0.64	07/21/04	0.067
Potassium	mg/Kg	07/27/04	18		
Selenium	mg/Kg	07/27/04	8.1	07/21/04	0.17
Silver	mg/Kg	07/26/04	0.18	07/21/04	0.098
Sodium	mg/Kg	07/26/04	2.8		
Thallium	mg/Kg	07/26/04	9.5	07/21/04	0.21
Vanadium	mg/Kg	07/20/04	0.14	07/21/04	0.045
Zinc	mg/Kg	07/20/04	0.17	07/21/04	0.17
Boron	mg/Kg	07/27/04	3.1		
Tin	mg/Kg	07/26/04	1.0		
Titanium	mg/Kg	07/26/04	0.099		

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 94633
Date: 09/16/04
Method: CLP SOW 390
Analyst: KDG

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174515-001	15.5026	20.7587	20.3139	92	8
174602-001	15.4696	21.3610	19.6083	70	30
174602-002	15.3977	20.5332	19.5343	81	19
174612-001	15.5259	21.5860	21.4140	97	3
174631-001	15.3807	21.3050	21.1835	98	2
174631-002	15.2248	21.5292	21.4407	99	1
174631-003	15.3533	20.8690	20.6703	96	4
174631-004	15.5727	20.8419	19.9657	83	17
174631-005	15.5451	22.1605	21.9430	97	3
174631-006	15.3217	21.0779	20.8702	96	4
174633-001	15.4040	21.4310	20.9868	93	7
174633-002	15.3482	21.2743	20.6174	89	11
174633-003	15.1977	23.1726	22.5901	93	7
174633-004	14.9924	20.2110	19.7402	91	9
174633-005	15.6154	20.6741	20.2487	92	8
174633-006	15.4512	20.5060	20.1754	93	7
174633-007	15.3108	21.7870	21.2070	91	9
174633-008	15.5542	21.9343	21.4112	92	8
174633-009	15.4863	20.6038	20.3227	95	5
174633-010	15.2922	21.4226	20.9073	92	8
QC264786	15.4631	21.4915	21.3546	98	2
of 174631-001			RPD:	0.2%	10.2%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 94633
Date Started: 15-SEP-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
174515-001			Tan Phung Associat	Soil	MOISTURE	20-SEP-2004
174602-001			Tan Phung Associat	Soil	MOISTURE	16-SEP-2004
174602-002			Tan Phung Associat	Soil	MOISTURE	16-SEP-2004
174612-001			EM Assist CESPK-PM	Soil	MOISTURE	16-SEP-2004
174631-001			Treadwell & Rollo	Soil	MOISTURE	16-SEP-2004
174631-002			Treadwell & Rollo	Soil	MOISTURE	16-SEP-2004
174631-003			Treadwell & Rollo	Soil	MOISTURE	16-SEP-2004
174631-004			Treadwell & Rollo	Soil	MOISTURE	16-SEP-2004
174631-005			Treadwell & Rollo	Soil	MOISTURE	16-SEP-2004
174631-006			Treadwell & Rollo	Soil	MOISTURE	16-SEP-2004
174633-001			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-002			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-003			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-004			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-005			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-006			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-007			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-008			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-009			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
174633-010			Tan Phung Associat	Soil	MOISTURE	17-SEP-2004
QC264786	SDUP	of 174631-001		Soil	MOISTURE	

PROJECT MOISTURE

Notebook No. 1994

Continued From Page

9/15/04

94633

Sample	BL	Dish #	Tare wt	Wet wt	Fin wt	Comment
Blank		1976	15.6416	—	15.6412	
174631-01	A	35	15.3807	21.3050	21.1835	
Dup - 01		21	15.4631	21.4915	21.3546	
02		77A	15.2248	21.5292	~~20.3134~~ 21.4407	
03		3	15.3533	20.8690	20.6703	
04		11	15.5727	20.8419	19.9457	
05		4	15.5451	22.1605	21.9430	
06		50	15.3217	21.0779	20.8702	
633-01		40	15.4040	21.4310	20.9866	
02		20	15.3482	21.2743	20.6174	
03		973	15.1977	23.1726	22.5901	
04		16	14.9924	20.2410	19.7402	
05		29	15.6154	20.6741	20.2487	
06		8	15.4572	20.5060	20.1754	
07		38	15.3108	21.7870	21.2070	
08		M2	15.5543	21.9343	21.4112	
09		106	15.4863	20.6038	20.3227	
10		7B	15.2922	21.4226	20.9873	
612-01		18	15.5259	21.5860	21.4140	
515-01		77	15.5026	20.7587	20.3139	
602-01		HIDEL	15.4696	21.3610	19.6083	
02		141	15.3977	20.5332	19.5343	

OVEN TEMP 105°C ON: 9/16/04

TIME IN 11:12

TIME OUT 9:10 A.M.

Continued on Page

Read and Understood By

Signed 9/15/04 Date

Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 174830

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX119[0.5]	174830-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 9/30/04
Operations Manager

Signature: _____ Date: 9/30/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	174830
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	09/22/04
Samples Received:	08/30/04

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 09/22/04. The sample was received cold and intact.

Metals (EPA 6010B):

Low recoveries were observed for antimony in the MS/MSD for batch 94861; the parent sample was not a project sample, the BS/BSD were within limits, and this analyte was not detected in the associated sample. High recoveries were observed for nickel; the BS/BSD were within limits. High RPD was also observed for nickel; the RPD was acceptable in the BS/BSD. High response was observed for beryllium in the serial dilution sample analyzed 09/23/04 07:59. No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

174830

Subject: Additional metals analyses for Baker Beach 3
From: "Sigrida Reinis" <sreinis@treadwellrollo.com>
Date: Wed, 22 Sep 2004 12:33:18 -0700
To: "Steve Stanley" <steve@ctberk.com>
CC: "Michael Chamberlain" <mchamberlain@treadwellrollo.com>

Steve,

This email is a follow-up to your phone conversation of yesterday (or today?) with Mike Chamberlain regarding additional metals analyses that we need in order to interpret some of the results from Baker Beach Disturbed Area 3. In addition to the suite of 17 metals that C&T has been quantifying to date, please add iron (Fe) and manganese (Mn) to the list of metals for this project.

174320-003

As you discussed with Mike, we previously did not have you analyze sample BB3EX119 for metals, but would like to have this analysis done at this time, as quickly as possible (24 hr TAT, if at all possible). When analyzing this sample, please include iron and manganese in the suite.

If you have any questions regarding this email, please contact me by cell phone (925-899-8926), at the SF office (415-955-9040), or via email.

Thank you!

Sigrida Reinis, Ph.D.
Senior Project Engineer
Treadwell & Rollo, Inc.
555 Montgomery Street, Suite 1300
San Francisco, CA 94111
tel. 415-955-9040
fax. 415-955-9041
cell 925-899-8926
www.treadwellrollo.com

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174320

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

Page 1 of 1

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker-Beach 3
Job Number: 2393.12
Project Manager\Contact: Sigrid Ramos
Samplers: Mike Chubarian
Recorder (Signature Required): [signature]

Turnaround Time: 48hr

	Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Pesticides	PCBs	Metals	SVOCs	Silica gel clean-up	Hold	Remarks	
-1	BB3EX117[0.5]	8/30/04	1148		X						X				X					sand
-2	BB3EX116[0.5]		1154		X						X		X	X	X				MS\MSD	clay
-3	BB3EX119[0.5]		1200		X						X					X				sand
-4	BB3EX120[0.5]		1205		X						X		X	X	X					sand
-5	DUP083004A		1205		X						X		X	X	X					sand
-6	BB3EX121[0.5]	8/30/04	1210		X						X		X	X	X				MS\MSD	sand

Relinquished by: (Signature) [signature] Date 8/30/04 Time 1507 Received by: (Signature) Tony [signature] Date 8/30/04 Time 1507

Relinquished by: (Signature) Date Time Received by: (Signature) Date Time

Relinquished by: (Signature) Date Time Received by Lab: (Signature) Date Time

Sent to Laboratory (Name): Curtis & Tompkins

Laboratory Comments/Notes: *RECEIVED ON ICE

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002239

5

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174320 Date Received: 8/30/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES. enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: Cold

B. Login Phase
Date Logged In: 8/30/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip lock bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO N/A
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Rev. 1, 4/95

Filename: F:\qc\forms\qc\cooler.doc

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174830	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX119[0.5]	Batch#:	94861
Lab ID:	174830-001	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	09/22/04
Basis:	dry	Analyzed:	09/23/04

Moisture: 7%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.6	0.17	1.000
Arsenic	2.6	0.22	0.086	1.000
Barium	17	0.43	0.012	1.000
Beryllium	0.097	0.086	0.0054	1.000
Cadmium	0.25	0.22	0.024	1.000
Chromium	46	0.43	0.029	1.000
Cobalt	5.5	0.86	0.066	1.000
Copper	5.6	0.43	0.049	1.000
Iron	11,000	22	3.4	5.000
Lead	6.6	0.13	0.056	1.000
Molybdenum	ND	0.86	0.054	1.000
Nickel	28	0.86	0.057	1.000
Selenium	0.60	0.22	0.15	1.000
Silver	ND	0.22	0.085	1.000
Thallium	ND	0.22	0.18	1.000
Vanadium	34	0.43	0.039	1.000
Zinc	20	0.86	0.15	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174830	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC265681	Batch#:	94861
Matrix:	Soil	Prepared:	09/22/04
Units:	mg/Kg	Analyzed:	09/23/04
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	ND	0.25	0.10
Barium	ND	0.50	0.013
Beryllium	ND	0.10	0.0063
Cadmium	ND	0.25	0.028
Chromium	ND	0.50	0.033
Cobalt	ND	1.0	0.076
Copper	ND	0.50	0.057
Iron	ND	5.0	0.80
Lead	ND	0.15	0.065
Molybdenum	ND	1.0	0.062
Nickel	ND	1.0	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	ND	0.50	0.045
Zinc	ND	1.0	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174830	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	94861
Units:	mg/Kg	Prepared:	09/22/04
Basis:	as received	Analyzed:	09/23/04
Diln Fac:	1.000		

Type: BS Lab ID: QC265682

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.00	95	75-125
Arsenic	50.00	48.65	97	75-125
Barium	100.0	92.00	92	75-125
Beryllium	2.500	2.540	102	75-125
Cadmium	10.00	9.450	95	75-125
Chromium	100.0	96.50	97	75-125
Cobalt	25.00	24.05	96	75-125
Copper	12.50	12.55	100	75-125
Iron	1,000	966.5	97	75-125
Lead	100.0	97.50	98	75-125
Molybdenum	20.00	19.75	99	75-125
Nickel	25.00	23.80	95	75-125
Selenium	50.00	47.05	94	75-125
Silver	10.00	9.650	97	75-125
Thallium	50.00	46.50	93	75-125
Vanadium	25.00	24.70	99	75-125
Zinc	25.00	23.50	94	75-125

Type: BSD Lab ID: QC265683

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	102.5	103	75-125	8	30
Arsenic	50.00	52.00	104	75-125	7	30
Barium	100.0	99.00	99	75-125	7	30
Beryllium	2.500	2.735	109	75-125	7	30
Cadmium	10.00	10.05	101	75-125	6	30
Chromium	100.0	103.5	104	75-125	7	30
Cobalt	25.00	25.80	103	75-125	7	30
Copper	12.50	13.45	108	75-125	7	30
Iron	1,000	1,037	104	75-125	7	30
Lead	100.0	104.5	105	75-125	7	30
Molybdenum	20.00	21.35	107	75-125	8	30
Nickel	25.00	25.45	102	75-125	7	30
Selenium	50.00	50.00	100	75-125	6	30
Silver	10.00	10.35	104	75-125	7	30
Thallium	50.00	50.00	100	75-125	7	30
Vanadium	25.00	26.55	106	75-125	7	30
Zinc	25.00	25.05	100	75-125	6	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	174830	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	94861
MSS Lab ID:	174825-003	Sampled:	09/16/04
Matrix:	Soil	Received:	09/16/04
Units:	mg/Kg	Prepared:	09/22/04
Basis:	dry	Analyzed:	09/23/04
Diln Fac:	1.000		

Type: MS Moisture: 3%
Lab ID: QC265684

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.6382	93.72	49.67	52 *	75-125
Arsenic	5.007	46.86	50.14	96	75-125
Barium	70.20	93.72	142.5	77	75-125
Beryllium	0.3427	2.343	2.619	97	75-125
Cadmium	<0.02784	9.372	7.779	83	75-125
Chromium	18.65	93.72	121.8	110	75-125
Cobalt	7.167	23.43	29.62	96	75-125
Copper	15.91	11.72	26.76	93	75-125
Iron	13,480	937.2	18,660 >LR	553 NM	75-125
Lead	14.19	93.72	97.00	88	75-125
Molybdenum	0.5695	18.74	17.57	91	75-125
Nickel	29.75	23.43	66.07	155 *	75-125
Selenium	0.8395	46.86	43.44	91	75-125
Silver	<0.09691	9.372	8.716	93	75-125
Thallium	<0.2062	46.86	40.39	86	75-125
Vanadium	22.78	23.43	45.31	96	75-125
Zinc	36.33	23.43	58.11	93	75-125

Type: MSD Moisture: 3%
Lab ID: QC265685

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	96.35	51.55	53 *	75-125	1	30
Arsenic	48.17	54.44	103	75-125	6	30
Barium	96.35	163.3	97	75-125	12	30
Beryllium	2.409	2.664	96	75-125	1	30
Cadmium	9.635	8.093	84	75-125	1	30
Chromium	96.35	131.0	117	75-125	5	30
Cobalt	24.09	30.30	96	75-125	0	30
Copper	12.04	26.93	92	75-125	1	30
Iron	963.5	18,180 >LR	488 NM	75-125	NC	30
Lead	96.35	100.2	89	75-125	1	30
Molybdenum	19.27	19.17	97	75-125	6	30
Nickel	24.09	107.4	322 *	75-125	47 *	30
Selenium	48.17	45.43	93	75-125	2	30
Silver	9.635	9.153	95	75-125	2	30
Thallium	48.17	41.96	87	75-125	1	30
Vanadium	24.09	47.31	102	75-125	3	30
Zinc	24.09	58.77	93	75-125	0	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

5.2

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	174830	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX119[0.5]	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	09/22/04
Batch#:	94861	Analyzed:	09/23/04

Type:	SAMPLE	Basis:	dry
Lab ID:	174830-001	Moisture:	7%

Analyte	Result	RL	MDL	Diln Fac
Iron	11,000	22	3.4	5.000
Manganese	120	0.43	0.096	1.000

Type:	BLANK	Basis:	as received
Lab ID:	QC265681	Diln Fac:	1.000

Analyte	Result	RL	MDL
Iron	ND	5.0	0.80
Manganese	ND	0.50	0.11

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	174830	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	94861
Units:	mg/Kg	Prepared:	09/22/04
Basis:	as received	Analyzed:	09/23/04
Diln Fac:	1.000		

Type: BS Lab ID: QC265682

Analyte	Spiked	Result	%REC	Limits
Iron	1,000	966.5	97	80-120
Manganese	25.00	24.35	97	80-120

Type: BSD Lab ID: QC265683

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Iron	1,000	1,037	104	80-120	7	20
Manganese	25.00	26.15	105	80-120	7	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	174830	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	94861
MSS Lab ID:	174825-003	Sampled:	09/16/04
Matrix:	Soil	Received:	09/16/04
Units:	mg/Kg	Prepared:	09/22/04
Basis:	dry	Analyzed:	09/23/04
Diln Fac:	1.000		

Type: MS Moisture: 3%
Lab ID: QC265684

Analyte	MSS Result	Spiked	Result	%REC	Limits
Iron	13,480	937.2	18,660 >LR	553 NM	57-134
Manganese	353.5	23.43	444.2	387 NM	62-131

Type: MSD Moisture: 3%
Lab ID: QC265685

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Iron	963.5	18,180 >LR	488 NM	57-134	NC	20
Manganese	24.09	470.2	485 NM	62-131	6	20

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74384896010	Seqnum	: 74384896014
Filename	: tr249106	Filename	: tr249110
IDF	: 1.0	IDF	: 1.0
PDF	: 47.62	PDF	: 47.62
Run type	: MSS	Run type	: PDS
Samplenum	: 174825-003	Samplenum	: QC265687
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94861	Batchnum	: 94861
Inj	: 23-SEP-2004 07:47	Inj	: 23-SEP-2004 08:14
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	97500	20000	118600 >LR	106	58-148	: >LR u
Antimony	13.00	2000	1870	93	16-120	u
Arsenic	102.0	1000	1030	93	62-120	u
Barium	1430	2000	3210	89	51-137	u
Beryllium	6.980	50	56.70	99	70-120	u
Cadmium	ND	200	172.0	86	61-120	u
Calcium	*** usable MSS data not found ***					
Chromium	380.0	2000	2230	93	60-120	u
Cobalt	146.0	500	606.0	92	56-120	u
Copper	324.0	250	572.0	99	47-144	u
Iron	*** usable MSS data not found ***					
Lead	289.0	2000	2180	95	47-126	u
Magnesium	88530	20000	107300 >LR	94	44-152	: >LR u
Manganese	7200	500	7610	82	62-131	: u
Molybdenum	11.60	400	405.0	98	57-120	u
Nickel	606.0	500	1030	85	41-138	u
Selenium	17.10	1000	968.0	95	35-122	u
Silver	ND	200	193.0	97	71-120	u
Thallium	ND	1000	908.0	91	53-120	u
Vanadium	464.0	500	942.0	96	48-136	u
Zinc	740.0	500	1170	86	38-144	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful >LR=overrange u=use

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74384896010	Seqnum	: 74384896011
Filename	: tr249106	Filename	: tr249107
IDF	: 1.0	IDF	: 5.0
PDF	: 47.62	PDF	: 47.62
Run type	: MSS	Run type	: SER
Samplenum	: 174825-003	Samplenum	: QC265686
Matrix	: Soil	Matrix	: Soil
Batchnum	: 94861	Batchnum	: 94861
Inj	: 23-SEP-2004 07:47	Inj	: 23-SEP-2004 07:59
Units	: mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX %D	Flags
Aluminum	4640	4.76	4620	23.8	0	10	u
Antimony	ND	2.86	ND	14.3	--	10	u
Arsenic	4.86	0.238	4.45	1.19	8	10	u
Barium	68.1	0.476	68.6	2.38	1	10	u
Beryllium	0.332	0.0952	ND	0.476	46*	10	u
Cadmium	ND	0.238	ND	1.19	--	10	u
Calcium	*** usable MSS data not found ***						
Chromium	18.1	0.476	18.9	2.38	5	10	u
Cobalt	6.95	0.952	7.29	4.76	5	10	u
Copper	15.4	0.476	15.9	2.38	3	10	u
Iron	*** usable MSS data not found ***						
Lead	13.8	0.143	14.4	0.714	5	10	u
Magnesium	4220	23.8	4340	119	3	10	u
Manganese	343	0.476	348	2.38	1	10	u
Molybdenum	ND	0.952	ND	4.76	--	10	u
Nickel	28.9	0.952	30.5	4.76	6	10	u
Selenium	0.814	0.238	1.27	1.19	--	10	u
Silver	ND	0.238	ND	1.19	--	10	u
Thallium	ND	0.238	ND	1.19	--	10	u
Vanadium	22.1	0.476	22.8	2.38	3	10	u
Zinc	35.2	0.952	36.4	4.76	3	10	u
Titanium	*** usable MSS data not found ***						

u=use

Method: 6010B Standard: blank
Run Time: 09/23/04 06:48:49

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.005	.004	-.001	.001	-.231	.005	.001
SDev	.005	.003	.001	.001	.001	.001	.000
%RSD	113.	61.5	56.0	48.4	.297	25.8	13.6
#1	-.008	.006	-.002	.002	-.231	.006	.001
#2	-.001	.002	-.001	.001	-.232	.004	.001

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.003	.010	-.003	.002	.003	-.008
SDev	.000	.000	.006	.004	.000	.003	.004
%RSD	16.8	1.28	62.2	131.	11.5	94.5	53.2
#1	-.001	.003	.014	-.005	.002	.005	-.005
#2	-.001	.003	.005	-.000	.002	.001	-.011

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.005	-.000	-.004	.001	.033	.0524	-.0052
SDev	.001	.001	.002	.001	.000	.0001	.0001
%RSD	12.7	363.	44.0	43.2	.668	.1581	1.057
#1	.004	.000	-.003	.001	.033	.0523	-.0052
#2	.005	-.001	-.006	.001	.034	.0524	-.0052

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0024	-.0002	-.000	.233
SDev	.0002	.0001	.000	.001
%RSD	6.508	62.56	35.7	.269
#1	-.0025	-.0001	-.000	.233
#2	-.0022	-.0003	-.000	.234

Method: 6010B Standard: cst hi
Run Time: 09/23/04 06:52:47

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.36	.834	.302	16.5	3.00	1.22	.246
SDev	.02	.006	.002	.1	.04	.01	.003
%RSD	1.45	.679	.635	.797	1.17	1.02	1.10
#1	1.35	.830	.301	16.4	2.98	1.21	.244
#2	1.38	.838	.303	16.6	3.03	1.23	.248

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.792	.492	.912	.938	2.15	1.95	.338
SDev	.010	.004	.003	.016	.05	.02	.003
%RSD	1.23	.903	.378	1.70	2.42	1.03	.881
#1	.785	.489	.910	.926	2.11	1.93	.336
#2	.799	.495	.915	.949	2.18	1.96	.340

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.381	.296	.206	.901	.209	.1602	.3123
SDev	.009	.002	.003	.010	.002	.0016	.0043
%RSD	2.37	.744	1.43	1.15	.953	1.022	1.365
#1	.374	.294	.204	.894	.207	.1590	.3093
#2	.387	.297	.209	.908	.210	.1613	.3153

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1208	.1812	1.14	7.13
SDev	.0010	.0024	.01	.08
%RSD	.8676	1.324	1.24	1.06
#1	.1201	.1795	1.13	7.07
#2	.1216	.1829	1.15	7.18

Standardization Report 09/23/04 06:56:20 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	726.819	3.37174	09/23/04 06:52:47
Sb206A	206.832	Multiple	Standards	1181.50	-4.85571	09/23/04 06:52:47
As1890	189.042	Multiple	Standards	1650.89	2.09230	09/23/04 06:52:47
Ba4934	493.409	Multiple	Standards	60.7072	-.080036	09/23/04 06:52:47
Be3130	313.042	Multiple	Standards	29.8792	6.90718	09/23/04 06:52:47
Cd2265	226.502	Multiple	Standards	82.1886	-.425893	09/23/04 06:52:47
Cr2677	267.716	Multiple	Standards	816.284	-.783142	09/23/04 06:52:47
Co2286	228.616	Multiple	Standards	632.068	.533346	09/23/04 06:52:47
Cu3247	324.754	Multiple	Standards	408.848	-1.07626	09/23/04 06:52:47
Pb2203	220.351	Multiple	Standards	554.570	-5.35360	09/23/04 06:52:47
Pb220A	220.352	Multiple	Standards	527.025	1.47956	09/23/04 06:52:47
Mo2020	202.030	Multiple	Standards	466.504	-.781391	09/23/04 06:52:47
Ni2316	231.604	Multiple	Standards	257.135	-.810340	09/23/04 06:52:47
Se1960	196.021	Multiple	Standards	1446.75	11.1832	09/23/04 06:52:47
Se196A	196.022	Multiple	Standards	1328.40	-6.06358	09/23/04 06:52:47
Ag3280	328.068	Multiple	Standards	338.332	.077378	09/23/04 06:52:47
Tl1908	190.864	Multiple	Standards	2392.53	10.1504	09/23/04 06:52:47
V_2924	292.402	Multiple	Standards	555.817	-.633128	09/23/04 06:52:47
Zn2138	213.856	Multiple	Standards	589.111	-19.7013	09/23/04 06:52:47
Al3082	308.215	Multiple	Standards	9451.12	-494.957	09/23/04 06:52:47
Ca3179	317.933	Multiple	Standards	6299.04	32.7070	09/23/04 06:52:47
Fe2714	271.441	Multiple	Standards	8497.89	19.9992	09/23/04 06:52:47
Mg2790	279.079	Multiple	Standards	11019.4	2.53382	09/23/04 06:52:47
Mn2576	257.610	Multiple	Standards	87.8409	.017986	09/23/04 06:52:47
Pb sum	220.353	NONE	NONE	1.00000	.000000	*09/23/04 06:52:47
Sb sum	206.838	NONE	NONE	1.00000	.000000	*09/23/04 06:52:47
Se sum	196.026	NONE	NONE	1.00000	.000000	*09/23/04 06:52:47
Ti3349	334.941	Multiple	Standards	145.053	-33.8084	09/23/04 06:52:47

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896001
Run Name :
Filename : tr249097
Injected : 23-SEP-2004 06:56
Caltype :

Standards: 04WS1530

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1017.000	ug/L	2	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	513.0000	ug/L	3	5	
Barium	1000.000	1010.000	ug/L	1	5	
Beryllium	100.0000	102.0000	ug/L	2	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2048.000	ug/L	2	5	
Chromium	200.0000	203.0000	ug/L	2	5	
Cobalt	500.0000	509.0000	ug/L	2	5	
Copper	200.0000	203.0000	ug/L	2	5	
Iron	1000.000	1028.000	ug/L	3	5	
Lead	500.0000	508.0000	ug/L	2	5	
Magnesium	2000.000	2046.000	ug/L	2	5	
Manganese	100.0000	102.0000	ug/L	2	5	
Molybdenum	1000.000	1020.000	ug/L	2	5	
Nickel	500.0000	509.0000	ug/L	2	5	
Selenium	500.0000	506.0000	ug/L	1	5	
Silver	100.0000	102.0000	ug/L	2	5	
Thallium	500.0000	502.0000	ug/L	0	5	
Titanium	1000.000	1020.000	ug/L	2	5	
Vanadium	500.0000	509.0000	ug/L	2	5	
Zinc	100.0000	102.0000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74384896002 Filename : tr249098 Injected : 23-SEP-2004 07:00
Caltype :

Standards: 04WS1577

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	488.8000	ug/L	-2	10	
Antimony	500.0000	503.0000	ug/L	1	10	
Arsenic	250.0000	253.0000	ug/L	1	10	
Barium	500.0000	492.0000	ug/L	-2	10	
Beryllium	50.00000	50.60000	ug/L	1	10	
Cadmium	50.00000	50.50000	ug/L	1	10	
Calcium	1000.000	1038.000	ug/L	4	10	
Chromium	100.0000	101.0000	ug/L	1	10	
Cobalt	250.0000	248.0000	ug/L	-1	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	519.9000	ug/L	4	10	
Lead	250.0000	253.0000	ug/L	1	10	
Magnesium	1000.000	1024.000	ug/L	2	10	
Manganese	50.00000	49.50000	ug/L	-1	10	
Molybdenum	500.0000	513.0000	ug/L	3	10	
Nickel	250.0000	252.0000	ug/L	1	10	
Selenium	250.0000	249.0000	ug/L	0	10	
Silver	50.00000	50.30000	ug/L	1	10	
Thallium	250.0000	247.0000	ug/L	-1	10	
Titanium	500.0000	515.0000	ug/L	3	10	
Vanadium	250.0000	249.0000	ug/L	0	10	
Zinc	50.00000	50.70000	ug/L	1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896004
Run Name :
Filename : tr249100
Injected : 23-SEP-2004 07:09
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	100.4000	ug/L	0	50	
Antimony	60.00000	60.20000	ug/L	0	50	
Arsenic	5.000000	4.760000	ug/L	-5	50	
Barium	10.00000	9.870000	ug/L	-1	50	
Beryllium	2.000000	2.180000	ug/L	9	50	
Cadmium	5.000000	5.000000	ug/L	0	50	
Calcium	200.0000	222.6000	ug/L	11	50	
Chromium	10.00000	9.790000	ug/L	-2	50	
Cobalt	20.00000	19.50000	ug/L	-3	50	
Copper	10.00000	10.90000	ug/L	9	50	
Iron	100.0000	123.7000	ug/L	24	50	
Lead	3.000000	3.150000	ug/L	5	50	
Magnesium	200.0000	216.0000	ug/L	8	50	
Manganese	10.00000	10.10000	ug/L	1	50	
Molybdenum	20.00000	20.70000	ug/L	4	50	
Nickel	20.00000	19.70000	ug/L	-2	50	
Selenium	5.000000	7.050000	ug/L	41	50	
Silver	5.000000	4.940000	ug/L	-1	50	
Thallium	5.000000	5.580000	ug/L	12	50	
Vanadium	10.00000	9.630000	ug/L	-4	50	
Zinc	20.00000	19.80000	ug/L	-1	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896015

Run Name :
Filename : tr249111

IDF : 1.0
Injected : 23-SEP-2004 08:27
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	486.2000	ug/L	-3	10	
Antimony		500.0000	516.0000	ug/L	3	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	507.0000	ug/L	1	10	
Beryllium		50.00000	50.60000	ug/L	1	10	
Cadmium		50.00000	51.80000	ug/L	4	10	
Calcium		1000.000	1059.000	ug/L	6	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	106.0000	ug/L	6	10	
Iron		500.0000	539.9000	ug/L	8	10	
Lead		250.0000	257.0000	ug/L	3	10	
Magnesium		1000.000	1032.000	ug/L	3	10	
Manganese		50.00000	50.40000	ug/L	1	10	
Molybdenum		500.0000	510.0000	ug/L	2	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	256.0000	ug/L	2	10	
Silver		50.00000	51.10000	ug/L	2	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	525.0000	ug/L	5	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	52.30000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896027

Run Name :
Filename : tr249123

IDF : 1.0
Injected : 23-SEP-2004 09:28
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	759.2000	ug/L	1	10	
Antimony		750.0000	763.0000	ug/L	2	10	
Arsenic		375.0000	374.0000	ug/L	0	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	78.50000	ug/L	5	10	
Cadmium		75.00000	72.40000	ug/L	-3	10	
Calcium		1500.000	1625.000	ug/L	8	10	
Chromium		150.0000	156.0000	ug/L	4	10	
Cobalt		375.0000	380.0000	ug/L	1	10	
Copper		150.0000	160.0000	ug/L	7	10	
Iron		750.0000	810.5000	ug/L	8	10	
Lead		375.0000	385.0000	ug/L	3	10	
Magnesium		1500.000	1573.000	ug/L	5	10	
Manganese		75.00000	77.40000	ug/L	3	10	
Molybdenum		750.0000	769.0000	ug/L	3	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	77.90000	ug/L	4	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	796.0000	ug/L	6	10	
Vanadium		375.0000	386.0000	ug/L	3	10	
Zinc		75.00000	76.80000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896039

Run Name :
Filename : tr249135

IDF : 1.0
Injected : 23-SEP-2004 10:29
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	489.3000	ug/L	-2	10	
Antimony		500.0000	499.0000	ug/L	0	10	
Arsenic		250.0000	251.0000	ug/L	0	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	50.50000	ug/L	1	10	
Calcium		1000.000	1019.000	ug/L	2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	527.9000	ug/L	6	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1013.000	ug/L	1	10	
Manganese		50.00000	48.90000	ug/L	-2	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	243.0000	ug/L	-3	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	513.0000	ug/L	3	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	51.30000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896051

Run Name :
Filename : tr249148

IDF : 1.0
Injected : 23-SEP-2004 11:30
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	752.0000	ug/L	0	10	
Antimony		750.0000	771.0000	ug/L	3	10	
Arsenic		375.0000	390.0000	ug/L	4	10	
Barium		750.0000	769.0000	ug/L	3	10	
Beryllium		75.00000	76.70000	ug/L	2	10	
Cadmium		75.00000	77.70000	ug/L	4	10	
Calcium		1500.000	1522.000	ug/L	1	10	
Chromium		150.0000	156.0000	ug/L	4	10	
Cobalt		375.0000	378.0000	ug/L	1	10	
Copper		150.0000	156.0000	ug/L	4	10	
Iron		750.0000	750.8000	ug/L	0	10	
Lead		375.0000	381.0000	ug/L	2	10	
Magnesium		1500.000	1561.000	ug/L	4	10	
Manganese		75.00000	73.80000	ug/L	-2	10	
Molybdenum		750.0000	759.0000	ug/L	1	10	
Nickel		375.0000	388.0000	ug/L	3	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	76.40000	ug/L	2	10	
Thallium		375.0000	370.0000	ug/L	-1	10	
Titanium		750.0000	786.0000	ug/L	5	10	
Vanadium		375.0000	379.0000	ug/L	1	10	
Zinc		75.00000	77.10000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896063

Run Name :
Filename : tr249160

IDF : 1.0
Injected : 23-SEP-2004 12:22
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	482.4000	ug/L	-4	10	
Antimony		500.0000	494.0000	ug/L	-1	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	49.10000	ug/L	-2	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	991.8000	ug/L	-1	10	
Chromium		100.0000	99.90000	ug/L	0	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	98.90000	ug/L	-1	10	
Iron		500.0000	492.5000	ug/L	-2	10	
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	1002.000	ug/L	0	10	
Manganese		50.00000	46.60000	ug/L	-7	10	
Molybdenum		500.0000	488.0000	ug/L	-2	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	246.0000	ug/L	-2	10	
Silver		50.00000	48.30000	ug/L	-3	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	503.0000	ug/L	1	10	
Vanadium		250.0000	240.0000	ug/L	-4	10	
Zinc		50.00000	51.20000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896075

Run Name :
Filename : tr249172

IDF : 1.0
Injected : 23-SEP-2004 13:17
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	770.9000	ug/L	3	10	
Antimony		750.0000	759.0000	ug/L	1	10	
Arsenic		375.0000	387.0000	ug/L	3	10	
Barium		750.0000	759.0000	ug/L	1	10	
Beryllium		75.00000	74.40000	ug/L	-1	10	
Cadmium		75.00000	78.50000	ug/L	5	10	
Calcium		1500.000	1445.000	ug/L	-4	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	148.0000	ug/L	-1	10	
Iron		750.0000	747.0000	ug/L	0	10	
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1564.000	ug/L	4	10	
Manganese		75.00000	70.10000	ug/L	-7	10	
Molybdenum		750.0000	738.0000	ug/L	-2	10	
Nickel		375.0000	386.0000	ug/L	3	10	
Selenium		375.0000	376.0000	ug/L	0	10	
Silver		75.00000	73.40000	ug/L	-2	10	
Thallium		375.0000	375.0000	ug/L	0	10	
Titanium		750.0000	766.0000	ug/L	2	10	
Vanadium		375.0000	363.0000	ug/L	-3	10	
Zinc		75.00000	76.60000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896086
Run Name :
Filename : tr249183
IDF : 1.0
Injected : 23-SEP-2004 14:24
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	515.4000	ug/L	3	10	
Antimony		500.0000	504.0000	ug/L	1	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	486.0000	ug/L	-3	10	
Beryllium		50.00000	49.60000	ug/L	-1	10	
Cadmium		50.00000	48.90000	ug/L	-2	10	
Calcium		1000.000	1007.000	ug/L	1	10	
Chromium		100.0000	99.20000	ug/L	-1	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	506.0000	ug/L	1	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	991.8000	ug/L	-1	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	486.0000	ug/L	-3	10	
Nickel		250.0000	244.0000	ug/L	-2	10	
Selenium		250.0000	242.0000	ug/L	-3	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	234.0000	ug/L	-6	10	
Titanium		500.0000	503.0000	ug/L	1	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	50.00000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896097

Run Name :
Filename : tr249194

IDF : 1.0
Injected : 23-SEP-2004 15:27
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	744.3000	ug/L	-1	10	
Antimony		750.0000	773.0000	ug/L	3	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	73.20000	ug/L	-2	10	
Cadmium		75.00000	78.40000	ug/L	5	10	
Calcium		1500.000	1433.000	ug/L	-4	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	737.4000	ug/L	-2	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1485.000	ug/L	-1	10	
Manganese		75.00000	71.10000	ug/L	-5	10	
Molybdenum		750.0000	752.0000	ug/L	0	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	385.0000	ug/L	3	10	
Silver		75.00000	74.40000	ug/L	-1	10	
Thallium		375.0000	371.0000	ug/L	-1	10	
Titanium		750.0000	757.0000	ug/L	1	10	
Vanadium		375.0000	364.0000	ug/L	-3	10	
Zinc		75.00000	75.40000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896108

Run Name :
Filename : tr249205

IDF : 1.0
Injected : 23-SEP-2004 16:23
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	608.1000	ug/L	**22**	10	c+ **
Antimony		500.0000	523.0000	ug/L	5	10	
Arsenic		250.0000	260.0000	ug/L	4	10	
Barium		500.0000	514.0000	ug/L	3	10	
Beryllium		50.00000	48.80000	ug/L	-2	10	
Cadmium		50.00000	54.70000	ug/L	9	10	
Calcium		1000.000	988.4000	ug/L	-1	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	98.20000	ug/L	-2	10	
Iron		500.0000	526.3000	ug/L	5	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	1056.000	ug/L	6	10	
Manganese		50.00000	46.60000	ug/L	-7	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	260.0000	ug/L	4	10	
Selenium		250.0000	255.0000	ug/L	2	10	
Silver		50.00000	48.60000	ug/L	-3	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	240.0000	ug/L	-4	10	
Zinc		50.00000	53.20000	ug/L	6	10	

+=high bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896003 Run Name: Injected: 23-SEP-2004 07:04
Filename: tr249099 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.1000]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.8960]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896016 Run Name: Injected: 23-SEP-2004 08:36
Filename: tr249112 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[34.960]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.2300]	10.00000	ug/L	<RL
Iron	[19.900]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[10.040]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[4.2300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.5300]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.9600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896028 Run Name: Injected: 23-SEP-2004 09:35
Filename: tr249124 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[44.210]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[4.0600]	10.00000	ug/L	<RL
Iron	[34.810]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[15.270]	500.0000	ug/L	<RL
Manganese	[0.6420]	10.00000	ug/L	<RL
Molybdenum	[5.5500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.3400]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.6300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896040 Run Name:
Filename: tr249136 Run Type: CCB

Injected: 23-SEP-2004 10:33

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.180]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.9500]	10.00000	ug/L	<RL
Iron	[27.720]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[11.220]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[1.9800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.7600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896052 Run Name: Injected: 23-SEP-2004 11:34
Filename: tr249149 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[54.240]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[11.230]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[13.180]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.8100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.8300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896064 Run Name: Injected: 23-SEP-2004 12:26
Filename: tr249161 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.3890]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[46.720]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[13.680]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[13.570]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.7600]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.8300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896076 Run Name:
Filename: tr249173 Run Type: CCB

Injected: 23-SEP-2004 13:21

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.7930]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[45.240]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[21.120]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[32.840]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.2400]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.2200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896087 Run Name:
Filename: tr249184 Run Type: CCB

Injected: 23-SEP-2004 14:33

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[15.410]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[14.760]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[9.4280]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.8000]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.9300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896098 Run Name:
Filename: tr249195 Run Type: CCB

Injected: 23-SEP-2004 15:32

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.5500]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[16.690]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.5300]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[2.9900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[3.1300]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896109 Run Name: Injected: 23-SEP-2004 16:30
Filename: tr249206 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	114.1000	100.0000	ug/L	<RL	ib ***
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.2400]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[18.820]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[27.450]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[32.220]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[1.8100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[4.3900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74384896005 Run Name:
Filename: tr249101 Run Type: ICSA

Injected: 23-SEP-2004 07:16

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[8.4700]	60.00000	ug/L	<RL	
Arsenic	[-0.566]	5.000000	ug/L	<RL	
Barium	[0.0000]	10.00000	ug/L	<RL	
Beryllium	[-0.685]	2.000000	ug/L	<RL	
Cadmium	[-2.590]	5.000000	ug/L	<RL	
Chromium	[2.6400]	10.00000	ug/L	<RL	
Cobalt	[0.4710]	10.00000	ug/L	<RL	
Copper	[-3.610]	10.00000	ug/L	<RL	
Lead	[0.7780]	3.000000	ug/L	<RL	
Manganese	[2.2300]	10.00000	ug/L	<RL	
Molybdenum	[-1.050]	20.00000	ug/L	<RL	
Nickel	[1.4100]	20.00000	ug/L	<RL	
Selenium	[4.0700]	5.000000	ug/L	<RL	
Silver	[-0.447]	5.000000	ug/L	<RL	
Thallium	[-1.850]	5.000000	ug/L	<RL	
Titanium	24.90000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-2.480]	10.00000	ug/L	<RL	
Zinc	[-0.975]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	529800	ug/L	106
Calcium	500000	474200.	ug/L	95
Iron	200000	187700	ug/L	94
Magnesium	500000	535400	ug/L	107

+=high bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896006

Run Name :
Filename : tr249102

Injected : 23-SEP-2004 07:20
Caltype :

Standards: 04WS1703

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	543300.0	ug/L	9		
Antimony	500.0000	544.0000	ug/L	9	20	
Arsenic	500.0000	536.0000	ug/L	7	20	
Barium	500.0000	495.0000	ug/L	-1	20	
Beryllium	500.0000	512.0000	ug/L	2	20	
Cadmium	1000.000	943.0000	ug/L	-6	20	
Calcium	500000.0	485800.0	ug/L	-3		
Chromium	500.0000	490.0000	ug/L	-2	20	
Cobalt	500.0000	490.0000	ug/L	-2	20	
Copper	500.0000	534.0000	ug/L	7	20	
Iron	200000.0	191300.0	ug/L	-4		
Lead	1000.000	1020.000	ug/L	2	20	
Magnesium	500000.0	548200.0	ug/L	10		
Manganese	500.0000	491.0000	ug/L	-2	20	
Molybdenum	500.0000	517.0000	ug/L	3	20	
Nickel	1000.000	935.0000	ug/L	-7	20	
Selenium	500.0000	537.0000	ug/L	7	20	
Silver	1000.000	934.0000	ug/L	-7	20	
Thallium	500.0000	510.0000	ug/L	2	20	
Titanium	20000.00	22300.00	ug/L	12		
Vanadium	500.0000	500.0000	ug/L	0	20	
Zinc	1000.000	1020.000	ug/L	2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74384896074

Run Name :
Filename : tr249171

Injected : 23-SEP-2004 13:12
Caltype :

Standards: 04WS1703

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	500200.0	ug/L	0		
Antimony	500.0000	559.0000	ug/L	12	20	
Arsenic	500.0000	539.0000	ug/L	8	20	
Barium	500.0000	496.0000	ug/L	-1	20	
Beryllium	500.0000	472.0000	ug/L	-6	20	
Cadmium	1000.000	946.0000	ug/L	-5	20	
Calcium	500000.0	414800.0	ug/L	-17		
Chromium	500.0000	473.0000	ug/L	-5	20	
Cobalt	500.0000	463.0000	ug/L	-7	20	
Copper	500.0000	488.0000	ug/L	-2	20	
Iron	200000.0	174000.0	ug/L	-13		
Lead	1000.000	953.0000	ug/L	-5	20	
Magnesium	500000.0	514900.0	ug/L	3		
Manganese	500.0000	442.0000	ug/L	-12	20	
Molybdenum	500.0000	496.0000	ug/L	-1	20	
Nickel	1000.000	914.0000	ug/L	-9	20	
Selenium	500.0000	522.0000	ug/L	4	20	
Silver	1000.000	876.0000	ug/L	-12	20	
Thallium	500.0000	504.0000	ug/L	1	20	
Titanium	20000.00	21500.00	ug/L	8		
Vanadium	500.0000	467.0000	ug/L	-7	20	
Zinc	1000.000	993.0000	ug/L	-1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74384896107 Filename : tr249204 Injected : 23-SEP-2004 16:14
Caltype :

Standards: 04WS1703

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	492800.0	ug/L	-1		
Antimony	500.0000	575.0000	ug/L	15	20	
Arsenic	500.0000	559.0000	ug/L	12	20	
Barium	500.0000	524.0000	ug/L	5	20	
Beryllium	500.0000	473.0000	ug/L	-5	20	
Cadmium	1000.000	1020.000	ug/L	2	20	
Calcium	500000.0	424500.0	ug/L	-15		
Chromium	500.0000	480.0000	ug/L	-4	20	
Cobalt	500.0000	474.0000	ug/L	-5	20	
Copper	500.0000	513.0000	ug/L	3	20	
Iron	200000.0	181500.0	ug/L	-9		
Lead	1000.000	997.0000	ug/L	0	20	
Magnesium	500000.0	524100.0	ug/L	5		
Manganese	500.0000	456.0000	ug/L	-9	20	
Molybdenum	500.0000	515.0000	ug/L	3	20	
Nickel	1000.000	964.0000	ug/L	-4	20	
Selenium	500.0000	548.0000	ug/L	10	20	
Silver	1000.000	902.0000	ug/L	-10	20	
Thallium	500.0000	505.0000	ug/L	1	20	
Titanium	20000.00	21800.00	ug/L	9		
Vanadium	500.0000	482.0000	ug/L	-4	20	
Zinc	1000.000	1030.000	ug/L	3	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74384896 Instrument: MET07 TJA Trace ICP Begun: 23-SEP-2004
Analytical Method: EPA 6010B SOP Version: 6010B rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr249097	CS				23-SEP-2004 06:56	1.0	1.0			1	
002	tr249098	ICV				23-SEP-2004 07:00	1.0	1.0			2	
003	tr249099	ICB				23-SEP-2004 07:04	1.0	1.0				
004	tr249100	CRI				23-SEP-2004 07:09	1.0	1.0			3	
005	tr249101	ICSA				23-SEP-2004 07:16	1.0	1.0	1		4	4:MG=535400
006	tr249102	ICSAB				23-SEP-2004 07:20	1.0	1.0			5	5:MG=548200
007	tr249103	BLANK	QC265681	94861	Soil	23-SEP-2004 07:33	1.0	50.0	1			
008	tr249104	BS	QC265682	94861	Soil	23-SEP-2004 07:37	1.0	50.0	1			
009	tr249105	BSD	QC265683	94861	Soil	23-SEP-2004 07:41	1.0	50.0	1			
010	tr249106	MSS	174825-003	94861	Soil	23-SEP-2004 07:47	1.0	47.62	3			2:FE=292300
011	tr249107	SER	QC265686	94861	Soil	23-SEP-2004 07:59	5.0	47.62		1		
012	tr249108	MS	QC265684	94861	Soil	23-SEP-2004 08:04	1.0	45.45		1		4:FE=398300
013	tr249109	MSD	QC265685	94861	Soil	23-SEP-2004 08:08	1.0	46.73		1		4:FE=377400
014	tr249110	PDS	QC265687	94861	Soil	23-SEP-2004 08:14	1.0	47.62			6 7	4:FE=305400
015	tr249111	CCV				23-SEP-2004 08:27	1.0	1.0			8	
016	tr249112	CCB				23-SEP-2004 08:36	1.0	1.0				
017	tr249113	SAMPLE	174626-003	94861	Soil	23-SEP-2004 08:44	1.0	49.50	3			3:FE=270900
018	tr249114	SAMPLE	174780-001	94861	Soil	23-SEP-2004 08:48	1.0	34.97				4:MG=1799000
019	tr249115	SAMPLE	174780-002	94861	Soil	23-SEP-2004 08:52	1.0	43.10				5:MG=4723000
020	tr249116	SAMPLE	174782-001	94861	Soil	23-SEP-2004 08:56	1.0	40.0				4:CA=1896000
021	tr249117	SAMPLE	174782-002	94861	Soil	23-SEP-2004 09:00	1.0	47.62				4:CA=2104000
022	tr249118	SAMPLE	174818-001	94861	Soil	23-SEP-2004 09:04	1.0	52.63				1:FE=163200
023	tr249119	SAMPLE	174818-002	94861	Soil	23-SEP-2004 09:08	1.0	47.17	1			5:FE=475600
024	tr249120	SAMPLE	174824-001	94861	Miscel	23-SEP-2004 09:12	1.0	40.32				
025	tr249121	SAMPLE	174818-002	94861	Soil	23-SEP-2004 09:18	1.0	47.17				5:FE=483300
026	tr249122	SAMPLE	174824-002	94861	Miscel	23-SEP-2004 09:23	1.0	40.0				
027	tr249123	CCV				23-SEP-2004 09:28	1.0	1.0			9	
028	tr249124	CCB				23-SEP-2004 09:35	1.0	1.0				
029	tr249125	SAMPLE	174825-001	94861	Soil	23-SEP-2004 09:39	1.0	41.67				4:CA=378200
030	tr249126	SAMPLE	174825-002	94861	Soil	23-SEP-2004 09:44	1.0	42.37				4:FE=376700
031	tr249127	SAMPLE	174825-004	94861	Soil	23-SEP-2004 09:48	1.0	35.21				5:CA=499900

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1703 6=04SS171 7=04SS172 8=04WS1578 9=04WS1679

Analyst: Mailu Date: 9/23/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74384896 Instrument: MET07 TJA Trace ICP Begun: 23-SEP-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	tr249128	SAMPLE	174825-005	94861	Soil	23-SEP-2004 09:52	1.0	48.54				4:CA=345600
033	tr249129	SAMPLE	174825-006	94861	Soil	23-SEP-2004 09:56	1.0	45.87				5:FE=397300
034	tr249130	SAMPLE	174825-007	94861	Soil	23-SEP-2004 10:00	1.0	48.08				4:FE=332800
035	tr249131	SAMPLE	174825-008	94861	Soil	23-SEP-2004 10:04	1.0	35.71				5:FE=405900
036	tr249132	SAMPLE	174829-001	94861	Soil	23-SEP-2004 10:08	1.0	50.0	4			4:FE=699900
037	tr249133	SAMPLE	174829-002	94861	Soil	23-SEP-2004 10:12	1.0	53.76	5			5:FE=607800
038	tr249134	SAMPLE	174830-001	94861	Soil	23-SEP-2004 10:20	1.0	40.0	1			3:FE=258500
039	tr249135	CCV				23-SEP-2004 10:29	1.0	1.0			8	
040	tr249136	CCB				23-SEP-2004 10:33	1.0	1.0				
041	tr249137	SAMPLE	174830-001	94861	Soil	23-SEP-2004 10:37	5.0	40.0				
042	tr249138	BLANK	QC265697	94864	Filtra	23-SEP-2004 10:43	1.0	1.0	1			
043	tr249139	BS	QC265698	94864	Filtra	23-SEP-2004 10:47	1.0	1.0	1			
044	tr249140	BSD	QC265699	94864	Filtra	23-SEP-2004 10:51	1.0	1.0	1			
045	tr249141	MSS	174794-001	94864	Filtra	23-SEP-2004 10:57	1.0	1.0	2			1:CA=264200
046	tr249142	MS	QC265700	94864	Filtra	23-SEP-2004 11:03	1.0	1.0				2:CA=259400
047	tr249143	MSD	QC265701	94864	Filtra	23-SEP-2004 11:07	1.0	1.0				2:CA=262000
048	tr249145	SER	QC265702	94864	Filtra	23-SEP-2004 11:17	5.0	1.0		1		
049	tr249146	SAMPLE	174794-002	94864	Filtra	23-SEP-2004 11:21	1.0	1.0				
050	tr249147	SAMPLE	174794-003	94864	Filtra	23-SEP-2004 11:25	1.0	1.0				1:CA=122700
051	tr249148	CCV				23-SEP-2004 11:30	1.0	1.0			9	
052	tr249149	CCB				23-SEP-2004 11:34	1.0	1.0				
053	tr249150	SAMPLE	174794-005	94864	Filtra	23-SEP-2004 11:39	1.0	1.0				
054	tr249151	SAMPLE	174794-006	94864	Filtra	23-SEP-2004 11:43	1.0	1.0				
055	tr249152	SAMPLE	174785-001	94864	Filtra	23-SEP-2004 11:48	1.0	1.0				
056	tr249153	SAMPLE	174785-002	94864	Filtra	23-SEP-2004 11:52	1.0	1.0				1:CA=100700
057	tr249154	SAMPLE	174785-003	94864	Filtra	23-SEP-2004 11:56	1.0	1.0				
058	tr249155	SAMPLE	174785-004	94864	Filtra	23-SEP-2004 12:00	1.0	1.0				
059	tr249156	SAMPLE	174785-005	94864	Filtra	23-SEP-2004 12:04	1.0	1.0				
060	tr249157	SAMPLE	174206-033	94038	Filtra	23-SEP-2004 12:08	1.0	1.0				
061	tr249158	SAMPLE	174815-002	94864	Filtra	23-SEP-2004 12:13	1.0	1.0				
062	tr249159	SAMPLE	174815-003	94864	Filtra	23-SEP-2004 12:17	1.0	1.0				

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1703 6=04SS171 7=04SS172 8=04WS1578 9=04WS1679

Analyst: Melissa Date: 9/27/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74384896 Instrument: MET07 TJA Trace ICP Begun: 23-SEP-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	tr249160	CCV				23-SEP-2004 12:22	1.0	1.0				8	
064	tr249161	CCB				23-SEP-2004 12:26	1.0	1.0					
065	tr249162	SAMPLE	174819-001	94864	Filtra	23-SEP-2004 12:30	1.0	1.0					
066	tr249163	SAMPLE	174819-002	94864	Filtra	23-SEP-2004 12:34	1.0	1.0					
067	tr249164	SAMPLE	174819-003	94864	Filtra	23-SEP-2004 12:38	1.0	1.0					
068	tr249165	SAMPLE	174819-004	94864	Filtra	23-SEP-2004 12:42	1.0	1.0					
069	tr249166	SAMPLE	174854-001	94864	Filtra	23-SEP-2004 12:51	1.0	1.0					1:CA=109900
070	tr249167	SAMPLE	174854-002	94864	Filtra	23-SEP-2004 12:54	1.0	1.0					
071	tr249168	BLANK	QC265733	94872	WET Le	23-SEP-2004 12:59	10.0	5.0	1				
072	tr249169	BS	QC265734	94872	WET Le	23-SEP-2004 13:03	1.0	1.0	1				
073	tr249170	BSD	QC265735	94872	WET Le	23-SEP-2004 13:08	1.0	1.0	1				
074	tr249171	ICSAB				23-SEP-2004 13:12	1.0	1.0				5	5:MG=514900
075	tr249172	CCV				23-SEP-2004 13:17	1.0	1.0				9	
076	tr249173	CCB				23-SEP-2004 13:21	1.0	1.0					
077	tr249174	MSS	174751-006	94872	WET Le	23-SEP-2004 13:26	10.0	5.0	1				
078	tr249175	SDUP	QC265736	94872	WET Le	23-SEP-2004 13:30	10.0	5.0					
079	tr249176	SSPIKE	QC265737	94872	WET Le	23-SEP-2004 13:34	10.0	5.0					
080	tr249177	SAMPLE	174751-007	94872	WET Le	23-SEP-2004 13:39	10.0	5.0					
081	tr249178	SAMPLE	174768-015	94872	WET Le	23-SEP-2004 13:43	10.0	5.0					
082	tr249179	SAMPLE	174768-016	94872	WET Le	23-SEP-2004 13:48	10.0	5.0					
083	tr249180	BLANK	QC265689	94862	Water	23-SEP-2004 14:06	1.0	1.0	1				
084	tr249181	BS	QC265690	94862	Water	23-SEP-2004 14:10	1.0	1.0	1				
085	tr249182	BSD	QC265691	94862	Water	23-SEP-2004 14:15	1.0	1.0	1				
086	tr249183	CCV				23-SEP-2004 14:24	1.0	1.0				8	
087	tr249184	CCB				23-SEP-2004 14:33	1.0	1.0					
088	tr249185	MSS	174626-003	94861	Soil	23-SEP-2004 14:42	10.0	49.50	1				
089	tr249186	MSS	174822-001	94862	Water	23-SEP-2004 14:47	1.0	1.0	2				
090	tr249187	MS	QC265692	94862	Water	23-SEP-2004 14:52	1.0	1.0					
091	tr249188	MSD	QC265693	94862	Water	23-SEP-2004 14:56	1.0	1.0		1			
092	tr249189	MSS	174822-001	94862	Water	23-SEP-2004 15:03	1.0	1.0	1				
093	tr249190	MS	QC265692	94862	Water	23-SEP-2004 15:08	1.0	1.0		1			

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1703 6=04SS171 7=04SS172 8=04WS1578 9=04WS1679

Analyst: [illegible] Date: 9/27/07

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74384896 Instrument: MET07 TJA Trace ICP Begun: 23-SEP-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
094	tr249191	MSD	QC265693	94862	Water	23-SEP-2004 15:12	1.0	1.0		1		
095	tr249192	SAMPLE	174791-002	94862	Water	23-SEP-2004 15:18	1.0	1.0				1:CA=135000
096	tr249193	SAMPLE	174791-005	94862	Water	23-SEP-2004 15:22	1.0	1.0				
097	tr249194	CCV				23-SEP-2004 15:27	1.0	1.0			9	
098	tr249195	CCB				23-SEP-2004 15:32	1.0	1.0				
099	tr249196	SAMPLE	174823-001	94862	Water	23-SEP-2004 15:38	1.0	1.0				
100	tr249197	SAMPLE	174823-005	94862	Water	23-SEP-2004 15:42	1.0	1.0				
101	tr249198	MSS	174825-003	94861	Soil	23-SEP-2004 15:47	20.0	47.62	2			
102	tr249199	SAMPLE	174833-003	94862	Water	23-SEP-2004 15:51	1.0	1.0				1:MG=219800
103	tr249200	SAMPLE	174834-002	94862	Water	23-SEP-2004 15:56	1.0	1.0				
104	tr249201	SAMPLE	174834-003	94862	Water	23-SEP-2004 16:00	1.0	1.0				
105	tr249202	SAMPLE	174834-001	94862	Water	23-SEP-2004 16:04	1.0	1.0	1			1:ZN=4490.00
106	tr249203	SAMPLE	174834-001	94862	Water	23-SEP-2004 16:10	2.0	1.0				
107	tr249204	ICSAB				23-SEP-2004 16:14	1.0	1.0			5	5:MG=524100
108	tr249205	CCV				23-SEP-2004 16:23	1.0	1.0	1		8	
109	tr249206	CCB				23-SEP-2004 16:30	1.0	1.0	1			

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1703 6=04SS171 7=04SS172 8=04WS1578 9=04WS1679

Analyst: [illegible] Date: 9/23/04

REPORTING SUMMARY FOR 174830 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	MO	NI	SE	AG	TL	V	ZN
174830-001	MET07	09/23/04 10:20	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
174830-001	MET07	09/23/04 10:37	5.0									+									
QC265681	MET07	09/23/04 07:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC265681	MET08	09/24/04 14:33	1.0																		
QC265681	MET08	09/24/04 14:38	1.0																		
QC265681	MET01	09/24/04 15:08	1.0																		
QC265682	MET07	09/23/04 07:37	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC265682	MET08	09/24/04 14:42	1.0																		
QC265682	MET01	09/24/04 15:11	1.0																		
QC265683	MET07	09/23/04 07:41	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC265683	MET08	09/24/04 14:45	1.0																		
QC265683	MET01	09/24/04 15:16	1.0																		
QC265684	MET07	09/23/04 08:04	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC265684	MET01	09/24/04 15:56	1.0																		
QC265685	MET07	09/23/04 08:08	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC265685	MET01	09/24/04 15:59	1.0																		
QC265686	MET07	09/23/04 07:59	5.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC265686	MET01	09/24/04 15:22	5.0																		
QC265686	MET01	09/24/04 15:40	50.0									+									
QC265687	MET07	09/23/04 08:14	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC265711	MET08	09/24/04 14:51	50.0	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 22-SEP-2004 23:11

Batch Number : 94861
Date Extracted: 22-SEP-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174626-003		Curtis & Tompkins QC	Soil	1.01	g	50	49.504950	1					TAL/ICP		mss
174780-001		Tan Phung Associates	Soil	1.43	g	50	34.965035	1					PB		
174780-002		Tan Phung Associates	Soil	1.16	g	50	43.103448	1					PB		
174782-001		Tan Phung Associates	Soil	1.25	g	50	40.000000	1					PB		
174782-002		Tan Phung Associates	Soil	1.05	g	50	47.619048	1					PB		
174818-001		URS Corporation	Soil	.95	g	50	52.631579	1					T26/ICP		
174818-002		URS Corporation	Soil	1.06	g	50	47.169811	1					T26/ICP		
174824-001		ConocoPhillips Company	Miscell.	1.24	g	50	40.322581	1					V		
174824-002		ConocoPhillips Company	Miscell.	1.25	g	50	40.000000	1					V		
174825-001		Tan Phung Associates	Soil	1.2	g	50	41.666667	1					PB		
174825-002		Tan Phung Associates	Soil	1.18	g	50	42.372881	1					PB		
174825-003		Tan Phung Associates	Soil	1.05	g	50	47.619048	1					PB		
174825-004		Tan Phung Associates	Soil	1.42	g	50	35.211268	1					PB		
174825-005		Tan Phung Associates	Soil	1.03	g	50	48.543689	1					PB		
174825-006		Tan Phung Associates	Soil	1.09	g	50	45.871560	1					PB		
174825-007		Tan Phung Associates	Soil	1.04	g	50	48.076923	1					PB		
174825-008		Tan Phung Associates	Soil	1.4	g	50	35.714286	1					PB		
174829-001		Weston Solutions	Soil	1	g	50	50.000000	1					TAL/ICP		
174829-002		Weston Solutions	Soil	.93	g	50	53.763441	1					TAL/ICP		
174830-001		Treadwell & Rollo	Soil	1.25	g	50	40.000000	1					FE, MN, T26/ICP		
QC265681	BLANK		Soil	1	g	50	50.000000	1					ICAP		
QC265682	BS		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC265683	BSD		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC265684	MS	of 174825-003	Soil	1.1	g	50	45.454545	1		.5	.5		ICAP		
QC265685	MSD	of 174825-003	Soil	1.07	g	50	46.728972	1		.5	.5		ICAP		
QC265686	SER	of 174825-003	Soil	1.05	g	50	47.619048	1					ICAP		
QC265687	PDS	of 174825-003	Soil	1.05	g	50	47.619048	1					ICAP		

Prep Chemist: _____ Reviewed By: _____ Date: 9/28/04

Relinquished By: _____ Received By: _____ Date: 9/28/04

Soil Digestion for ICP & ICP-MS | **Curtis & Tompkins, Ltd.**

LIMS Batch #: 94861
Date Digested: 9/22/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 2000
Page 21

Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK QC 2658681		Ø	50.0	Y	
BS 2658682					
BSD 2658683					
174825-003MS	A	1.10			
-003 MSD		1.07			
1741626-003	A	1.01			
174750-001	A	1.43			
-002		1.16			
174782-001	A	1.25			
-002		1.05			
174818-001		0.95			comp 4 cores
-002		1.06			
174824-001		1.24			comp 3 jars
-002		1.25			
174825-001	A	1.20			
-002		1.18			
-003		1.05			MSS
-004		1.42			
-005		1.03			
-006		1.09			
-007		1.04			
-008		1.40			
174829-001	A	1.00			
-002		0.93			
174830-001	A	1.25			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95.0C	VV 9/22/04
0.5 mL of spike solution was added to all spikes	0455171*	
	0455172*	
1:1 HNO3	A26032-083004	
concentrated HNO3	A26032-JTBaker	
3mL 30% hydrogen peroxide	44138425-VWR	
concentrated HCl	A18060-JTBaker	
☒ filtered thru' Whatman # ~~541~~ #4	D4179741	

Vuyam 9/22/04
Extraction Chemist / Date

Continued from page 52
Continued on page -

9/28/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 94233
Date: 09/01/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
174320-001	15.7365	22.1835	22.1152	99	1
174320-002	11.0019	18.4589	16.9899	80	20
174320-003	10.9923	18.8447	18.2579	93	7
174320-004	11.1530	18.4654	18.2985	98	2
174320-005	15.5536	22.5951	22.3934	97	3
174320-006	11.0824	18.9913	18.9340	99	1
174354-001	15.5452	22.7000	21.7064	86	14
QC263193	11.1624	18.5824	18.4993	99	1
of 174320-001			RPD:	0.1%	5.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 94233
Date Started: 31-AUG-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
174320-001		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-002		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-003		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-004		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-005		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174320-006		Treadwell & Rollo	Soil	MOISTURE	01-SEP-2004
174354-001		Tan Phung Associat	Soil	MOISTURE	01-SEP-2004
QC263193	SDUP of 174320-001		Soil	MOISTURE	

PROJECT MOISTURE

8/31/04

#942337

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	1	B119	11.0467	—	11.8478	
1743520-1	A	10	15.7265	22.1835	22.1152	
DUP	1	3	11.1624	18.5824	18.4993	
	2	B113	11.0014	18.4589	16.9899	
	3	2	10.9923	18.8447	18.2579	
	4	B106	11.1530	18.4654	18.2985	
	5	18X	15.5536	22.5951	~~22.3534~~ 22.3934	
	6	51	11.0824	18.9913	18.9348	
1743524-1	A	32	15.5452	22.7000	21.7064	

OVEN TEMP: 105°C
TIME IN: 5:38 P.M.
TIME OUT: 10:20 P.M.

ON: 9/1/04

Continued on Page

Read and Understood By

R. Manning — Signed
8/31/04 — Date
Signed — 9/01/04 — Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175037

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio-Baker Beach 3

Sample ID	Lab ID
BB3EX128[0.5]	175037-001
BB3EX129[0.5]	175037-002
BB3EX130[0.5]	175037-003
BB3EX131[0.5]	175037-004
DUP100104A	175037-005
BB3EX132[0.5]	175037-006
BB3EX133[0.5]	175037-007
BB3EX134[0.5]	175037-008
BB3EX135[0.5]	175037-009
BB3EX136[0.5]	175037-010
TB100104A	175037-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/16/04
Operations Manager

Signature: _____ Date: 11/15/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	175037
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio-Baker Beach 3
Request Date:	10/01/04
Samples Received:	10/01/04

This hardcopy data package contains sample and QC results for ten soil samples and one water sample, requested for the above referenced project on 10/01/04. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
High response was observed for Freon 113 in the ICV analyzed 09/21/04 22:59; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
High responses were observed for benzoic acid and benzo(b)fluoranthene in the ICV analyzed 10/06/04 16:38; these analytes were not detected at or above the RL in the associated sample. High response was observed for benzoic acid in the ICV analyzed 10/02/04 00:45; this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Pesticides (EPA 8081A):
Low response was observed for endrin ketone in the CCV analyzed 10/06/04 19:31; average CCV drift met method requirements. No other analytical problems were encountered.

Chlorinated Herbicides (EPA 8151):
APCL in Chino, CA performed the analysis. Please see the APCL case narrative.

PCBs (EPA 8082):
Low surrogate recovery was observed for decachlorobiphenyl in BB3EX130[0.5] (lab # 175037-003); the corresponding TCMX surrogate recovery was within limits. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
Low recoveries were observed for antimony in the MS/MSD of BB3EX128[0.5] (lab # 175037-001); the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for barium and cobalt in the MS of BB3EX128[0.5] (lab # 175037-001); the BS/BSD were within limits, and the associated RPDs were within limits. Response exceeding the instrument's

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	175037
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio-Baker Beach 3
Request Date:	10/01/04
Samples Received:	10/01/04

Metals (EPA 6010B and EPA 7470A):

linear ranges were observed for iron and manganese in the MS/MSD of BB3EX128[0.5] (lab # 175037-001). High % difference was observed for beryllium in the serial dilution of BB3EX128[0.5] (lab # 175037-001). No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

175037

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2873.12
Project Manager\Contact: Sigrida Bierig
Samplers: Mike Chamberlin (MC)
Recorder (Signature Required):

Turnaround Time: 24 hr*

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Metals	Pesticides	PCBs	SVOC	VOC	chrom. herb.	mercury	TPH diesel	TPH hydr. oil				Silica gel clean-up	Hold	Remarks
-1 BB3EX128[0.5]	10-1-04	1244		X						X		X														
-2 BB3EX129[0.5]		1250		X						X		X														
-3 BB3EX130[0.5]		1255		X						X		X	X	X	X	X	X	X	X	X				X		*5 day TAT
-4 BB3EX131[0.5]		1300		X						X		X	X	X												*48 hr TAT
-5 BB3P001C4A		1300		X						X		X	X	X												*48 hr TAT
-6 BB3EX132[0.5]		1306		X						X		X	X	X												*48 hr TAT
-7 BB3EX133[0.5]		1311		X						X		X														
-8 BB3EX134[0.5]		1316		X						X		X														
-9 BB3EX135[0.5]		1323		X						X		X														
-10 BB3EX136[0.5]		1336		X						X		X														
TB1001C4A	10-1-04	1346			X		2									X										

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-1-04	1416	[signature]	10/1/04	1416
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkin
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002241

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175037 Date Received: 10/1/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio - Baker Beach

A. Preliminary Examination Phase
Date Opened: 10/1/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: ON ICE

B. Login Phase
Date Logged In: 10/1/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: zip lock bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3EX130[0.5]	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Diln Fac:	1.000	Analyzed:	10/04/04
Batch#:	95126		

Type:	SAMPLE	Moisture:	2%
Lab ID:	175037-003	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	10 H Y	1.0	0.17
Motor Oil C24-C36	32	5.1	0.65

Surrogate	%REC	Limits
Hexacosane	67	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC266729	Cleanup Method:	EPA 3630C

Analyte	Result	RL	MDL
Diesel C12-C24	ND	0.99	0.17
Motor Oil C24-C36	ND	5.0	0.64

Surrogate	%REC	Limits
Hexacosane	114	65-135

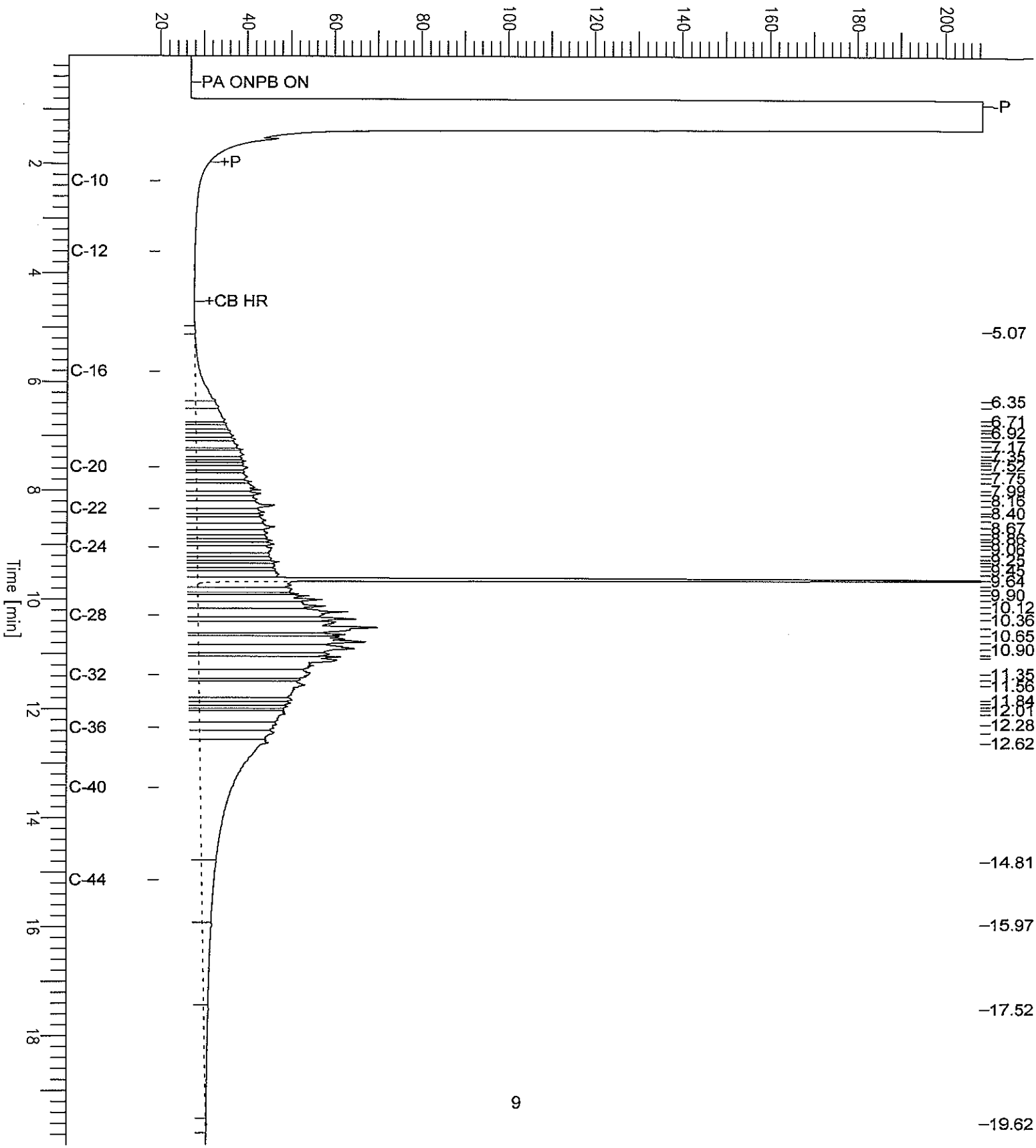
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Chromatogram

Sample Name : 175037-003sg,95126
FileName : G:\GC13\CHB\278B023.RAW
Method : BTEH268S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #: 95126 Page 1 of 1
Date : 10/5/04 09:15 AM
Time of Injection: 10/4/04 11:36 PM
Low Point : 19.89 mV High Point : 208.60 mV
Plot Scale: 188.7 mV

BB3EX130 [0.5]

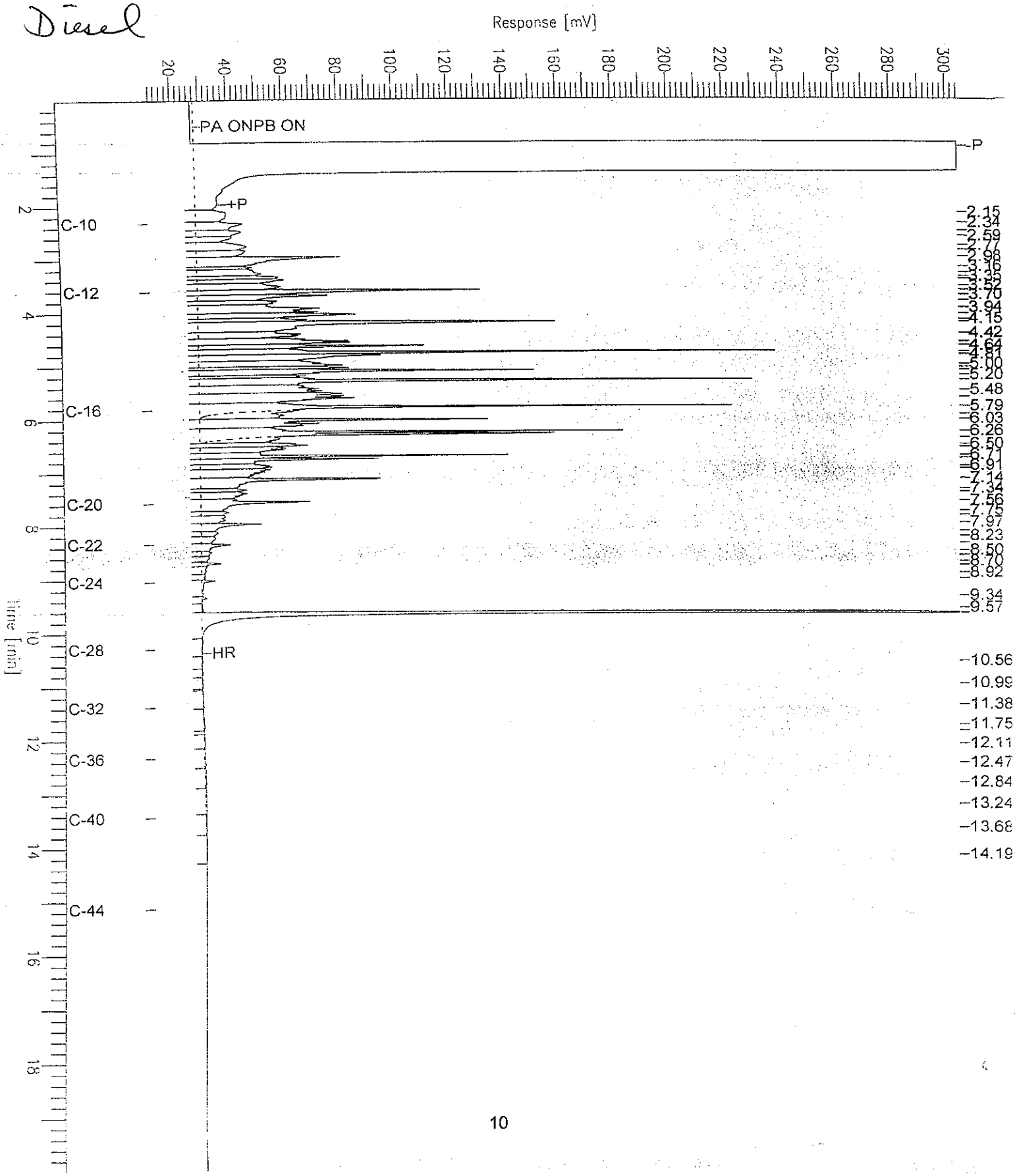


Chromatogram

Sample Name : ccv,04ws1621,dsl
FileName : G:\GC13\CHB\278B003.RAW
Method : BTEH268S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 500mg/L Page 1 of 1
Date : 10/4/04 11:25 AM
Time of Injection: 10/4/04 10:15 AM
Low Point : 10.95 mV High Point : 304.01 mV
Plot Scale: 293.1 mV

Diesel

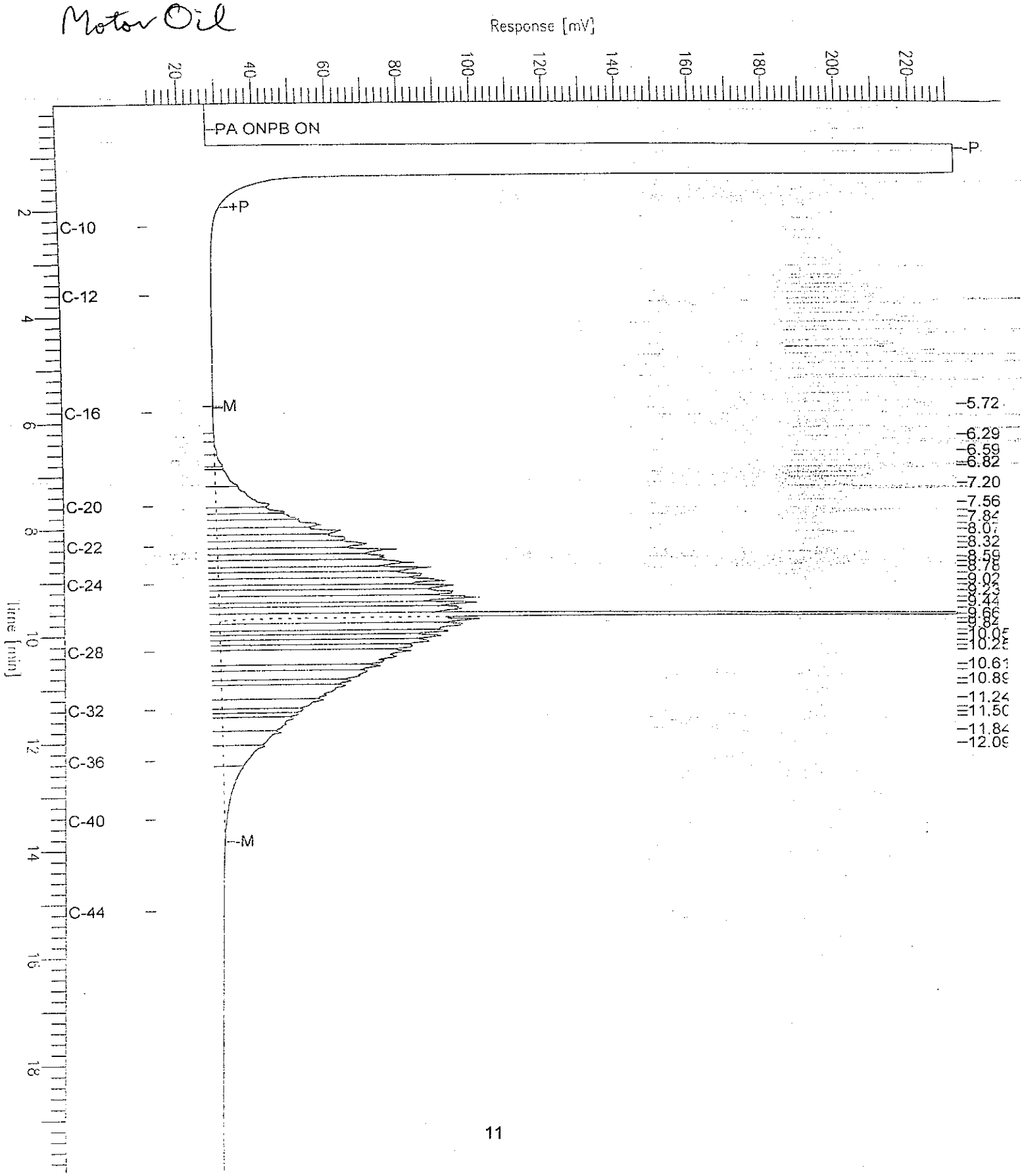


Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC13\CHB\278B004.RAW
Method : BTEH268S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 500mg/L
Date : 10/4/04 11:31 AM
Time of Injection: 10/4/04 10:43 AM
Low Point : 11.01 mV High Point : 231.73 mV
Plot Scale: 220.7 mV

Motor Oil



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Batch QC Report

Total Extractable Hydrocarbons

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC266730	Batch#:	95126
Matrix:	Soil	Prepared:	10/04/04
Units:	mg/Kg	Analyzed:	10/05/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.94	48.68	97	65-135

Surrogate	%REC	Limits
Hexacosane	99	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	95126
MSS Lab ID:	174988-009	Sampled:	09/28/04
Matrix:	Soil	Received:	09/29/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/05/04
Diln Fac:	1.000		

Type:	MS	Moisture:	46%
Lab ID:	QC266731	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	9.414	92.33	86.20	83	65-135

Surrogate	%REC	Limits
Hexacosane	91	65-135

Type:	MSD	Moisture:	46%
Lab ID:	QC266732	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	92.19	69.17	65	65-135	22	35

Surrogate	%REC	Limits
Hexacosane	75	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MMP
Calnum: 144283164001 Name: Diesel Type: (normal) Date: 14-JUL-2004 15:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b002	144283164002	dsl	14-JUL-2004 15:24	04WS1223
2	196b003	144283164003	dsl	14-JUL-2004 15:52	04WS1222
3	196b004	144283164004	dsl	14-JUL-2004 16:19	04WS1221
4	196b005	144283164005	dsl	14-JUL-2004 16:47	04WS1220
5	196b006	144283164006	dsl	14-JUL-2004 17:15	04WS1219
6	196b007	144283164007	dsl	14-JUL-2004 17:43	04WS1218
7	196b008	144283164008	dsl	14-JUL-2004 18:11	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	14421	17664	18224	19506	19898	20754	20231	AVRG R		5.356E-5		mg/L	18671	12	0.995	20	

14

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC13B Calname : Diesel
Calnum : 144283164001 Caldate : 14-JUL-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	144283164027	15-JUL-2004	500.00	495.14	mg/L	-1

INITIAL CALIBRATION REPORT FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MMP
Calnum: 144283164002 Name: Motor Oil Type: (normal) Date: 14-JUL-2004 19:07 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b010	144283164010	mo	14-JUL-2004 19:07	04WS1208
2	196b011	144283164011	mo	14-JUL-2004 19:34	04WS1209
3	196b012	144283164012	mo	14-JUL-2004 20:02	04WS1210
4	196b013	144283164013	mo	14-JUL-2004 20:30	04WS1211
5	196b014	144283164014	mo	14-JUL-2004 20:57	04WS1212
6	196b015	144283164015	mo	14-JUL-2004 21:25	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	15162	17347	17277	15408	13751	11157	AVRG R		6.659E-5		mg/L	15017	16	0.995	20	

16

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MMP
Calnum: 144283164003 Name: Hexacosane Type: (normal) Date: 14-JUL-2004 22:20 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b017	144283164017	hex	14-JUL-2004 22:20	04WS0533
2	196b018	144283164018	hex	14-JUL-2004 22:48	04WS0534
3	196b019	144283164019	hex	14-JUL-2004 23:15	04WS0535
4	196b020	144283164020	hex	14-JUL-2004 23:43	04WS0536
5	196b021	144283164021	hex	15-JUL-2004 00:11	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	23341	25682	25454	25462	26153	AVRG R		3.965E-5		mg/L	25218	4	0.995	20	

17

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	144400852007	04-OCT-2004 13:34	144283164001	14-JUL-2004	18671	19363	1000.0	1037.0	mg/L	4	15	
GC13B	B	144400852019	04-OCT-2004 21:43	144283164001	14-JUL-2004	18671	17994	250.00	240.93	mg/L	-4	15	
GC13B	B	144400852033	05-OCT-2004 04:18	144283164001	14-JUL-2004	18671	19267	500.00	515.96	mg/L	3	15	

CONTINUING CALIBRATION SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	144400852008	04-OCT-2004 14:02	144283164002	14-JUL-2004	15017	16184	500.00	538.85	mg/L	8	15	
GC13B	B	144400852021	04-OCT-2004 22:40	144283164002	14-JUL-2004	15017	14870	500.00	495.11	mg/L	-1	15	
GC13B	B	144400852035	05-OCT-2004 05:15	144283164002	14-JUL-2004	15017	16575	500.00	551.88	mg/L	10	15	

CONTINUING CALIBRATION SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	144400852007	04-OCT-2004 13:34	144283164003	14-JUL-2004	25218	27364	50.000	54.255	mg/L	9	15	
GC13B	B	144400852019	04-OCT-2004 21:43	144283164003	14-JUL-2004	25218	26589	50.000	52.716	mg/L	5	15	
GC13B	B	144400852033	05-OCT-2004 04:18	144283164003	14-JUL-2004	25218	27631	50.000	54.782	mg/L	10	15	

SEQUENCE SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144283164 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 14-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	196b001	X	ib			14-JUL-2004 14:56	1.0						
002	196b002	ICAL	dsl			14-JUL-2004 15:24	1.0					1	
003	196b003	ICAL	dsl			14-JUL-2004 15:52	1.0					2	
004	196b004	ICAL	dsl			14-JUL-2004 16:19	1.0					3	
005	196b005	ICAL	dsl			14-JUL-2004 16:47	1.0					4	
006	196b006	ICAL	dsl			14-JUL-2004 17:15	1.0					5	
007	196b007	ICAL	dsl			14-JUL-2004 17:43	1.0					6	
008	196b008	ICAL	dsl			14-JUL-2004 18:11	1.0					7	
009	196b009	X	ib			14-JUL-2004 18:39	1.0						
010	196b010	ICAL	mo			14-JUL-2004 19:07	1.0					8	
011	196b011	ICAL	mo			14-JUL-2004 19:34	1.0					9	
012	196b012	ICAL	mo			14-JUL-2004 20:02	1.0					10	
013	196b013	ICAL	mo			14-JUL-2004 20:30	1.0					11	
014	196b014	ICAL	mo			14-JUL-2004 20:57	1.0					12	
015	196b015	ICAL	mo			14-JUL-2004 21:25	1.0					13	
016	196b016	X	ib			14-JUL-2004 21:53	1.0						
017	196b017	ICAL	hex			14-JUL-2004 22:20	1.0					14	
018	196b018	ICAL	hex			14-JUL-2004 22:48	1.0					15	
019	196b019	ICAL	hex			14-JUL-2004 23:15	1.0					16	
020	196b020	ICAL	hex			14-JUL-2004 23:43	1.0					17	
021	196b021	ICAL	hex			15-JUL-2004 00:11	1.0					18	
022	196b022	X	ib			15-JUL-2004 00:38	1.0						
023	196b023	X	c10-16			15-JUL-2004 01:06	1.0						
024	196b024	X	c12-60			15-JUL-2004 01:33	1.0						
025	196b025	X	c50			15-JUL-2004 02:01	1.0						
026	196b026	X	ib			15-JUL-2004 02:28	1.0						
027	196b027	ICV	dsl			15-JUL-2004 02:56	1.0		3			19	
028	196b028	CCV	dsl			15-JUL-2004 03:24	1.0		3			20	
029	196b029	CCV	mo			15-JUL-2004 03:51	1.0		3			21	

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533 15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0983 20=04WS1144 21=04WS1249

SEQUENCE SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144400852 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 04-OCT-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	278b001	X	primer			04-OCT-2004 08:52	1.0					
002	278b002	X	ib			04-OCT-2004 09:20	1.0					
003	278b003	CCV	dsl			04-OCT-2004 10:15	1.0	1.0		3	1	
004	278b004	CCV	mo			04-OCT-2004 10:43	1.0	1.0		3	2	
005	278b005	SAMPLE	174994-001 S	95061	Soil	04-OCT-2004 11:58	1.0	0.1003		3		
006	278b006	SAMPLE	174994-003 S	95061	Soil	04-OCT-2004 12:26	1.0	0.1000		3		
007	278b007	CCV	dsl			04-OCT-2004 13:34	1.0	1.0		3	3	
008	278b008	CCV	mo			04-OCT-2004 14:02	1.0	1.0		3	2	
009	278b009	SAMPLE	174988-010 S	95126	Soil	04-OCT-2004 17:02	1.0	0.09988		3		
010	278b010	BLANK	QC266729 S	95126	Soil	04-OCT-2004 17:30	1.0	0.09923	7	3		
011	278b011	MSS	174988-009 S	95126	Soil	04-OCT-2004 17:58	1.0	0.09956	7	3		
012	278b012	SAMPLE	174988-008 S	95126	Soil	04-OCT-2004 18:26	1.0	0.1002		3		
013	278b013	SAMPLE	174988-007 S	95126	Soil	04-OCT-2004 18:54	1.0	0.0999		3		
014	278b014	SAMPLE	174988-005 S	95126	Soil	04-OCT-2004 19:22	1.0	0.09958		3		
015	278b015	SAMPLE	174988-004 S	95126	Soil	04-OCT-2004 19:50	1.0	0.09996		3		
016	278b016	SAMPLE	174988-003 S	95126	Soil	04-OCT-2004 20:18	1.0	0.0993		3		
017	278b017	SAMPLE	174988-002 S	95126	Soil	04-OCT-2004 20:47	1.0	0.09903		3		
018	278b018	SAMPLE	174988-001 S	95126	Soil	04-OCT-2004 21:15	2.0	0.1003		3		
019	278b019	CCV	dsl			04-OCT-2004 21:43	1.0	1.0		3	4	
020	278b020	X	ccv			04-OCT-2004 22:11	1.0				4	
021	278b021	CCV	mo			04-OCT-2004 22:40	1.0	1.0		3	2	
022	278b022	BLANK	QC266729	95126	Soil	04-OCT-2004 23:08	1.0	0.09923	7	3		
023	278b023	SAMPLE	175037-003 S	95126	Soil	04-OCT-2004 23:36	1.0	0.09913		3		
024	278b024	SAMPLE	175017-001 S	95126	Soil	05-OCT-2004 00:04	3.0	0.09907		3		
025	278b025	SAMPLE	175013-001	95126	Soil	05-OCT-2004 00:32	100.0	0.2005		3		
026	278b026	X	ib			05-OCT-2004 01:01	1.0					
027	278b027	SAMPLE	175012-001	95126	Soil	05-OCT-2004 01:29	5.0	0.09962		3		
028	278b028	SAMPLE	175012-002	95126	Soil	05-OCT-2004 01:57	10.0	0.1003		3		
029	278b029	LCS	QC266730	95126	Soil	05-OCT-2004 02:25	1.0	0.09988		3		
030	278b030	LCS	QC266730 S	95126	Soil	05-OCT-2004 02:54	1.0	0.09988		3		
031	278b031	MS	QC266731 S	95126	Soil	05-OCT-2004 03:22	1.0	0.09972		3		

Stds used: 1=04WS1621 2=04WS1793 3=04WS1579 4=04WS1563

SEQUENCE SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144400852 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 04-OCT-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	278b032	MSD	QC266732 S	95126	Soil	05-OCT-2004 03:50	1.0	0.09956	3		
033	278b033	CCV	dsl			05-OCT-2004 04:18	1.0	1.0	3	1	
034	278b034	X	ccv			05-OCT-2004 04:47	1.0			1	
035	278b035	CCV	mo			05-OCT-2004 05:15	1.0	1.0	3	2	
036	278b036	SAMPLE	175017-001 S	95126	Soil	05-OCT-2004 10:46	100.0	0.09907	3		

23

Stds used: 1=04WS1621 2=04WS1793 3=04WS1579 4=04WS1563

REPORTING SUMMARY FOR 175037 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
175037-003	GC13B	10/04/04 23:36	1.0	+	+	+	
QC266729	GC13B	10/04/04 17:30	1.0	+	+	+	
QC266729	GC13B	10/04/04 23:08	1.0				
QC266729	GC13B	10/06/04 15:26	1.0				
QC266730	GC13B	10/05/04 02:25	1.0				
QC266730	GC13B	10/05/04 02:54	1.0	+		+	
QC266731	GC13B	10/05/04 03:22	1.0	+		+	
QC266732	GC13B	10/05/04 03:50	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 04-OCT-2004 15:31

Batch Number : 95126
Date Extracted: 04-OCT-2004
Extracted by : Amy Silverberg
Prep Method : SHAKER TABLE

Analysis : TEHM
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1581D
Spike #2 ID : 04WS1727B
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174988-001			Tetra Tech EMI	Soil	49.85	g	5	0.100301	1		1	0		TEH	3630C	sg
174988-002			Tetra Tech EMI	Soil	50.49	g	5	0.099030	1		1	0		TEH	3630C	sg
174988-003			Tetra Tech EMI	Soil	50.35	g	5	0.099305	1		1	0		TEH	3630C	sg
174988-004			Tetra Tech EMI	Soil	50.02	g	5	0.099960	1		1	0		TEH	3630C	sg
174988-005			Tetra Tech EMI	Soil	50.21	g	5	0.099582	1		1	0		TEH	3630C	sg
174988-007			Tetra Tech EMI	Soil	50.05	g	5	0.099900	1		1	0		TEH	3630C	sg
174988-008			Tetra Tech EMI	Soil	49.9	g	5	0.100200	1		1	0		TEH	3630C	sg, MSS
174988-009			Tetra Tech EMI	Soil	50.22	g	5	0.099562	1		1	0		TEH	3630C	sg
174988-010			Tetra Tech EMI	Soil	50.06	g	5	0.099880	1		1	0		TEH	3630C	sg
175012-001			Tan Phung Associates	Soil	50.19	g	5	0.099621	1		1	0		TEHM		
175012-002			Tan Phung Associates	Soil	49.85	g	5	0.100301	1		1	0		TEHM		
175013-001			Bay Area Rapid Transit Dist.	Soil	49.88	g	10	0.200481	1		1	0		TEHM		
175017-001			Port of Oakland	Soil	50.47	g	5	0.099069	1		1	0		TEH	3630C	sg
175023-001			URS Corporation	Soil	49.91	g	5	0.100180	1		1	0		TEHM	3630C	sg
175023-002			URS Corporation	Soil	49.99	g	5	0.100020	1		1	0		TEHM	3630C	sg
175023-003			URS Corporation	Soil	49.96	g	5	0.100080	1		1	0		TEHM	3630C	sg
175024-001			URS Corporation	Soil	50.08	g	5	0.099840	1		1	0		TEHM	3630C	sg
175024-002			URS Corporation	Soil	49.96	g	5	0.100080	1		1	0		TEHM	3630C	sg
175024-003			URS Corporation	Soil	50.1	g	5	0.099800	1		1	0		TEHM	3630C	sg
175037-003			Treadwell & Rollo	Soil	50.44	g	5	0.099128	1		1	0		TEHM	3630C	sg
QC266729	MB			Soil	50.39	g	5	0.099226	1		1	0		TEH	3630C	sg
QC266730	LCS			Soil	50.06	g	5	0.099880	1		1	1		TEH	3630C	sg
QC266731	MS	of 174988-009		Soil	50.14	g	5	0.099721	1		1	1		TEH	3630C	sg
QC266732	MSD	of 174988-009		Soil	50.22	g	5	0.099562	1		1	1		TEH	3630C	sg

Prep Chemist: [signature] Reviewed By: [signature] Date: 10/05/04

Relinquished By: [signature] Received By: [signature] Date: 10.5.04

Curtis & Tompkins, Ltd. **TEH SOIL PREP LOG** BK 1990

LIMS Batch No: 95126
LIMS Analysis TEH/M
Extracted by: AMS
Date Extracted: 10/4/04

Extraction Method:
☑ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ Other _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	174988-001	49.85	5.0	X	
	-002	50.49			
	-003	50.35			
	-004	50.02			
5	-005	50.21			
	-007	50.05			
	-008	49.90			
	-009	50.22			MSS
	-010	50.06			
10	175012-001	50.19			
	-002	49.85			
	175013-001	49.88	10.0		
	175017-001	50.47	5.0	X	
	175023-001	49.91		X	
15	-002	49.99			
	-003	49.96			
	175024-001	50.08		X	
	-002	49.96			
	-003	50.10			
20	175037-003	50.44		X	
	MB QC266729	50.39		X	
	LCS 30	50.06			
	MS 31	50.14			
	MSD 32	50.22			
					AMS 10/4/04

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	FU30132	AMS 10/4/04
Samples were dried with CH2Cl2-rinsed granular Na2SO4	EM44135434	
1.0 mL of TEH_SURR surrogate solution was added to all samples	04WS1581D	
1.0 mL of TEH_SP matrix spiking solution was added to all spikes	04WS1727B	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all — CH_2Cl_2	EM44233	
Acetone	EM44179	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	0915	
taken off shaker table at:	1115	
Extracts filtered through baked, rinsed powdered Na2SO4	EM44135434	
Concentrated to volumes as noted above		

Continued from page _____
Continued on page _____

10/4/04
Extraction Chemist / Date

10/05/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: AMS
Cleanup Date: 10/4/04

Benchbook # **BK 1985**
Page 60

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
174988-04	95126	1.0	1.0	
-002				
-003				
-004				
-005				
-007				
-008				
-009				MSS
-010				
175017-001				
175023-001				
-002				
-003				
175024-001				
-002				
-003				
175037-003				
MB QC266729				
LCS 30				
MS 31				
MSD 32				
			AMS 10/4/04	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled _____ g columns	NA	AMS 10/4/04
☑ Extracts were cleaned up using 1.0 g cartridges	SP3262	
Extracts were eluted with 2.0 mL CH_2Cl_2	EM44233	
Concentrated to volumes as noted above	✓	

Kilverberg 10/4/04
Extraction Chemist / Date

Continued from page _____
Continued on page _____

Jennifer Dell 10/4/04
Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. 1909

Continued From Page

Sample ID	Weight	Analysis	Comments
175012-001A	50.19	TEHM	
-002A	49.85		MSS
MS	50.43		175012-002A
MSD	49.64		↓
LCS	50.06		FOB032
MB	50.39		↓
175013-001A	49.88	TEHM	
175023-001	49.91	TEHM	4, COMP A-D
↓ -002	49.99	↓	↓
↓ -003	49.96		
175023-001	30.33	8270	4, COMP A-D
↓ -002	30.13	↓	↓
↓ -003	30.02		
175023-001	15.01	8081	4, COMP A-D
↓ -002	14.98	↓	↓
↓ -003	15.08		
175023-001	15.07	PCB	4, COMP A-D
↓ -002	14.82	↓	↓
↓ -003	15.24		
174988-009A	30.01	8270	
MS/MSD ↓ ~~-009A~~ -010A	30.31	↓	

Continued on Page

Read and Understood By

Michelle Cart — Signed

10/1/04 — Date

Signed — Date

Sample ID	Weight (g)	Analysis	Comment
175024-001	50.08	TPH	4, COMP A-D
-002	49.96		
-003	50.10		
175024-001	29.94	8270	4, COMP A-D
-002	30.08		
-003	29.90		
175024-001	14.94	PCB	4, COMP A-D
-002	15.11		
-003	14.93		
175024-001	15.05	8081	4, COMP A-D
-002	15.04		
-003	15.17		

Continued on Page

Read and Understood By

Michelle Curtis 10/1/04

Signed Date Signed Date

PROJECT SOIL AUGUST

Notebook No. KK1999

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175022-004	15.08	8081	B, COMP A-C
↓ -005	15.13	↓	↓
175022-004	15.17	PCB	B, COMP A-C
↓ -005	15.24	↓	↓
MB	30.02	8270	Filter 030132
LCS	30.17		↓
MS	30.04		Comp A, B
MSD	30.39		
174993-001	30.00		
174993-001	15.16	8081	Comp A, B
174988-001A	49.85	TEH	
-002	50.49		
-003	50.35		
-004	50.02		
-005	50.21		
-006	49.89		MSS
-007	50.05		
-008	49.90		
-009	50.22		MSS
-010	50.06		
-011	50.18		
-012	49.96		
-013	50.28		
-014	49.83		
-015	49.70		
-016	50.12		
-017	50.30		
-018	50.15		
-019	50.15		

Continued on Page 81

Read and Understood By

Signed [illegible] Date 10/1/07

Signed Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174988-020A	50.46	TEH	
-021	49.99		
-022	50.07		
-023	49.69		
-024	50.00		
-025	50.25		
-026	49.87		
MS	49.92		
MS	50.14		174988-006A
MSD	50.44		174988-009A
MSD	50.22		174988-006A
LCS	50.08		174988-009A
LCS	50.36		P030132
MB	49.97		
MB	49.69		
174988-001A	15.12	8081	
-002A	15.05		
-003	14.81		
-004	15.08		
-005	15.15		
-006	14.97		MSS
-007	15.23		
-008	14.99		
-026	15.02		
-010	14.90		
-011	15.03		
-012	15.14		
-013	15.17		
-014	15.13		
-015	15.24		
-016	14.86		
-017	15.04		

Continued on Page 82

Read and Understood By

Nichelle Cuato 10/1/04

Signed Date Signed

PROJECT Soil Aliquot

Notebook No. DA1777

Continued From Page 81

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174988-018A	15.20	8081	
-019A	14.86		
-020A	15.23		
MS	15.15		174988-006A
MSD	14.95		
LCS	15.14		P030132
MB	14.83		
175017-001	50.47	TEH	4, COMP A-D
174993-001	14.90	PCB	2, COMP A-B
175026-005A	15.20	8081	
-014A	14.86		
175031-005A	15.16	8081	
-009A Mc 1%	14.84		2, COMP A-B
-010A Mc 1%	15.06		
-013A	14.89		MSS
MS	14.92		
MSD	14.94		
LCS	14.92		
MB	15.15		
175037-003A	14.82	8081	
-004A	14.96		
-005A	14.84		
-006A	Mc 10% 14.95 ~~14.95~~ 14.82		
175037-003A	50.44	TCHM	
175037-003A	30.38	8270	

Continued on Page

Read and Understood By

Michelle Cuta 10/1/04

Signed Date

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil SHAKER TABLE

Analyte	Units	GC11A	GC13B	GC15B	GC17A
Diesel C10-C20	mg/Kg		10/20/04 0.30	10/20/04 0.29	10/20/04 0.20
Diesel C10-C22	mg/Kg	10/26/04 0.57	10/20/04 0.30	10/20/04 0.30	10/20/04 0.19
Diesel C10-C24	mg/Kg	10/26/04 0.55	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C10-C28	mg/Kg	10/26/04 0.68	10/20/04 0.32	10/20/04 0.30	10/20/04 0.40
Diesel C12-C28	mg/Kg		10/20/04 0.32		
Diesel C12-C36	mg/Kg	10/26/04 0.60	10/20/04 0.32		
Diesel C12-C32	mg/Kg			10/20/04 0.31	10/20/04 0.50
Diesel C12-C24	mg/Kg	10/26/04 0.42	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C12-C22	mg/Kg	10/26/04 0.44	10/20/04 0.31	10/20/04 0.30	10/20/04 0.20
Motor Oil C20-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.68	03/30/04 0.32
Motor Oil C22-C36	mg/Kg	04/06/04 2.4	04/10/04 0.54	04/10/04 0.71	03/30/04 0.32
Motor Oil C24-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.80	03/30/04 0.30
Motor Oil C22-C32	mg/Kg	04/06/04 2.6	04/10/04 0.64	04/10/04 0.54	03/30/04 0.31
Hexacosane	mg/Kg	09/20/03 0.17	08/15/03 0.11	08/16/03 0.069	09/05/03 0.17

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB100104A	Batch#:	95206
Lab ID:	175037-011	Sampled:	10/01/04
Matrix:	Water	Received:	10/01/04
Units:	ug/L	Analyzed:	10/06/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.4
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.4
Freon 113	ND	5.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.06
MTBE	ND	0.5	0.06
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.09
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.08
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.08
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.2
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.09
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.2
Chlorobenzene	ND	0.5	0.2
1,1,1,2-Tetrachloroethane	ND	0.5	0.2
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.3
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.06
Isopropylbenzene	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.2
1,2,3-Trichloropropane	ND	0.5	0.3
Propylbenzene	ND	0.5	0.2
Bromobenzene	ND	0.5	0.2
1,3,5-Trimethylbenzene	ND	0.5	0.2
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.2

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB100104A	Batch#:	95206
Lab ID:	175037-011	Sampled:	10/01/04
Matrix:	Water	Received:	10/01/04
Units:	ug/L	Analyzed:	10/06/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
tert-Butylbenzene	ND	0.5	0.2
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.2
para-Isopropyl Toluene	ND	0.5	0.2
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.2
n-Butylbenzene	ND	0.5	0.2
1,2-Dichlorobenzene	ND	0.5	0.2
1,2-Dibromo-3-Chloropropane	ND	0.5	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.3
Hexachlorobutadiene	ND	0.5	0.2
Naphthalene	ND	0.5	0.3
1,2,3-Trichlorobenzene	ND	0.5	0.3

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-120
1,2-Dichloroethane-d4	109	80-120
Toluene-d8	104	80-120
Bromofluorobenzene	103	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267016	Batch#:	95206
Matrix:	Water	Analyzed:	10/06/04
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.4
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.4
Freon 113	ND	5.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.06
MTBE	ND	0.5	0.06
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.09
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.08
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.08
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.2
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.09
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.2
Chlorobenzene	ND	0.5	0.2
1,1,1,2-Tetrachloroethane	ND	0.5	0.2
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.3
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.06
Isopropylbenzene	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.2
1,2,3-Trichloropropane	ND	0.5	0.3
Propylbenzene	ND	0.5	0.2
Bromobenzene	ND	0.5	0.2
1,3,5-Trimethylbenzene	ND	0.5	0.2
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.2

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267016	Batch#:	95206
Matrix:	Water	Analyzed:	10/06/04
Units:	ug/L		

Analyte	Result	RL	MDL
tert-Butylbenzene	ND	0.5	0.2
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.2
para-Isopropyl Toluene	ND	0.5	0.2
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.2
n-Butylbenzene	ND	0.5	0.2
1,2-Dichlorobenzene	ND	0.5	0.2
1,2-Dibromo-3-Chloropropane	ND	0.5	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.3
Hexachlorobutadiene	ND	0.5	0.2
Naphthalene	ND	0.5	0.3
1,2,3-Trichlorobenzene	ND	0.5	0.3

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	107	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	95206
Units:	ug/L	Analyzed:	10/06/04
Diln Fac:	1.000		

Type: BS Lab ID: QC267013

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.74	95	75-120
Benzene	25.00	24.90	100	79-120
Trichloroethene	25.00	24.43	98	79-120
Toluene	25.00	25.24	101	80-120
Chlorobenzene	25.00	24.45	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	104	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	99	80-122

Type: BSD Lab ID: QC267014

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.07	92	75-120	3	20
Benzene	25.00	24.48	98	79-120	2	20
Trichloroethene	25.00	24.59	98	79-120	1	20
Toluene	25.00	24.84	99	80-120	2	20
Chlorobenzene	25.00	24.04	96	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-120
1,2-Dichloroethane-d4	106	80-120
Toluene-d8	103	80-120
Bromofluorobenzene	100	80-122

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\091404.b\HIE08.D

8260-ICAL

Date : 14-SEP-2004 15:30

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

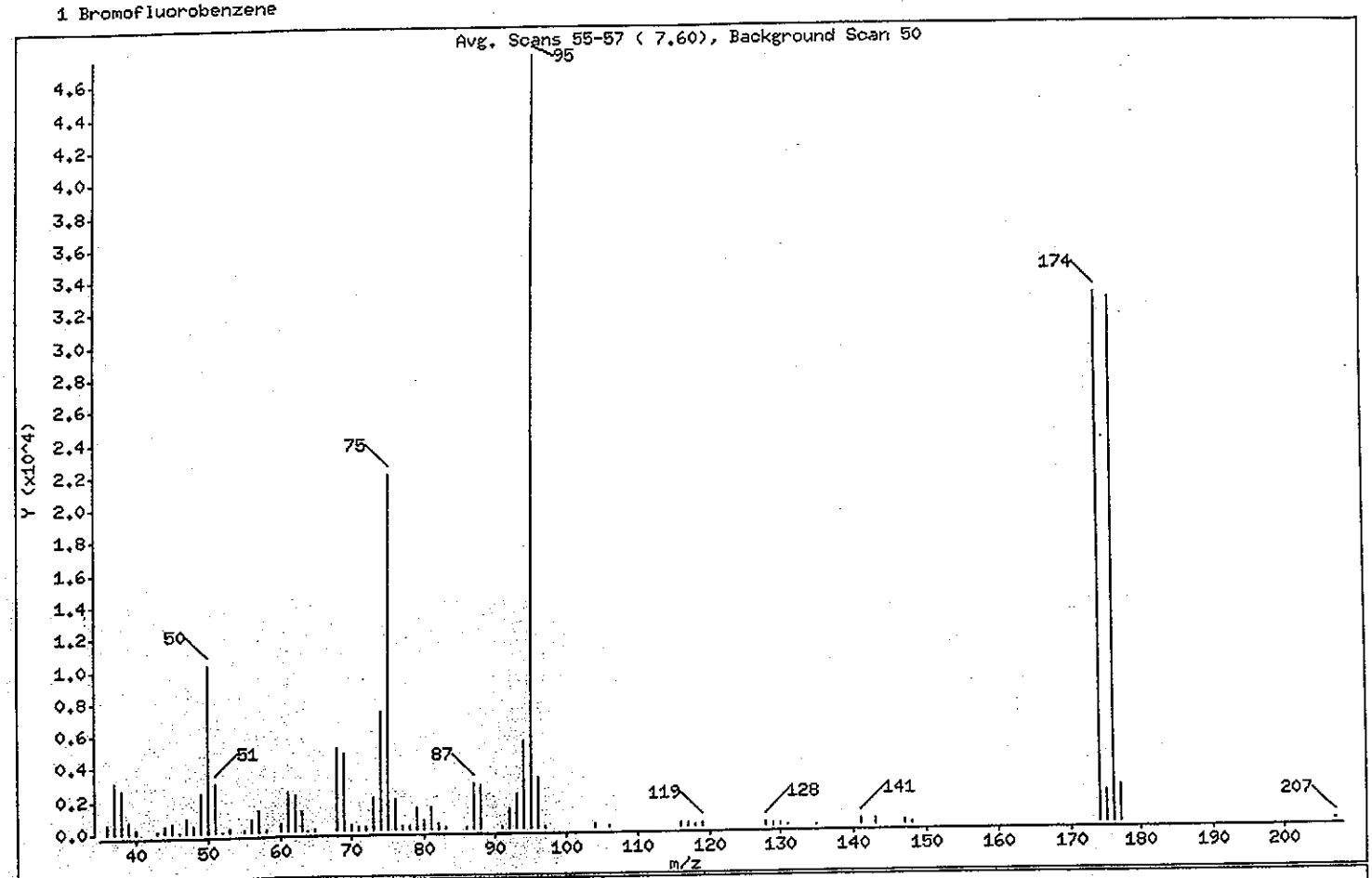
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.66
75	30.00 - 60.00% of mass 95	45.95
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	68.81
175	5.00 - 9.00% of mass 174	3.91 (5.68)
176	95.01 - 100.99% of mass 174	67.96 (98.77)
177	5.00 - 9.00% of mass 176	4.57 (6.73)

Ar 09/15/04

LW 9-15-04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\100604.b\HJ602.D

Date : 06-OCT-2004 09:52

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

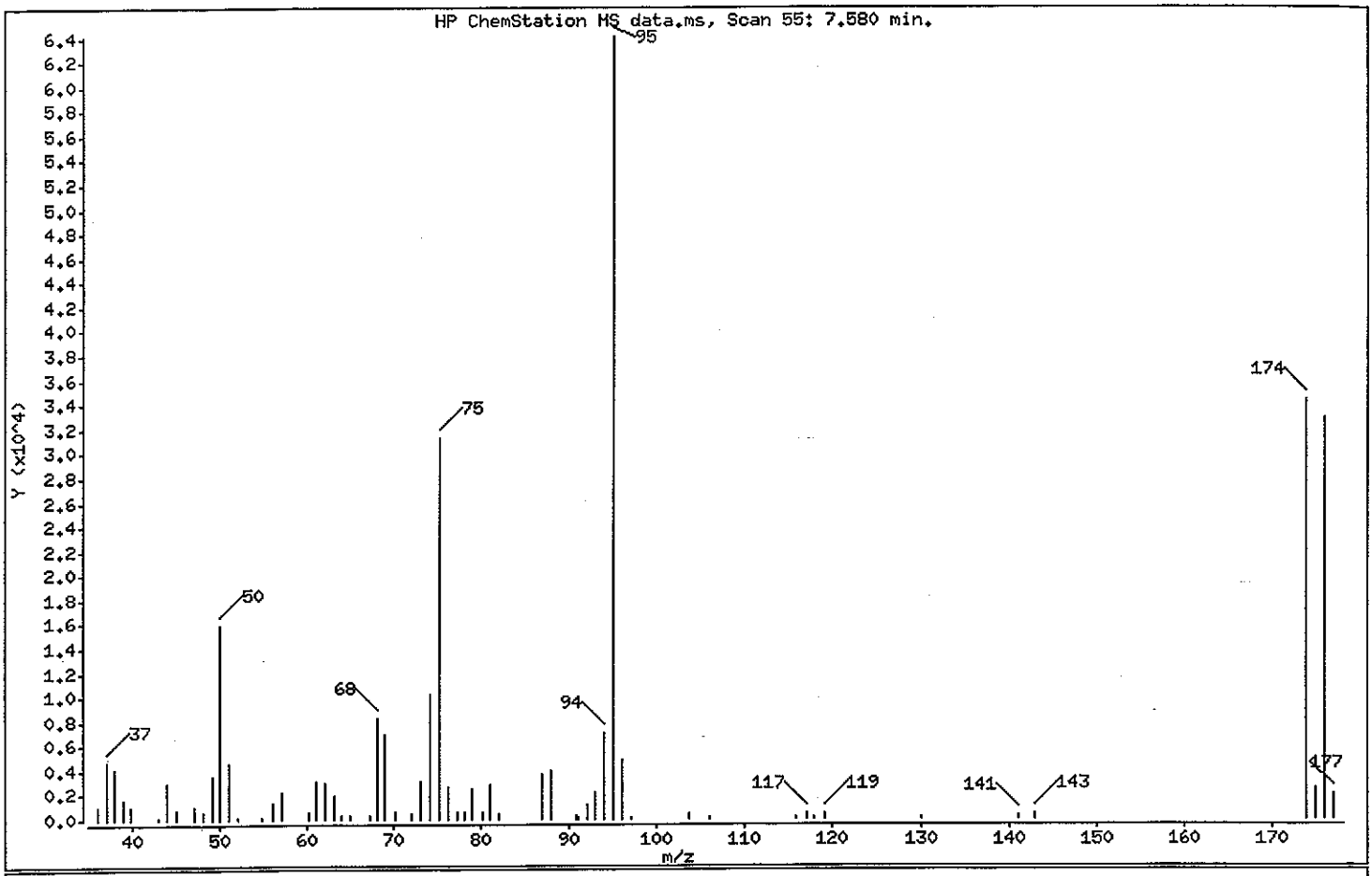
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.77
75	30.00 - 60.00% of mass 95	48.75
96	5.00 - 9.00% of mass 95	7.55
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	53.48
175	5.00 - 9.00% of mass 174	3.99 (7.47)
176	95.01 - 100.99% of mass 174	51.31 (95.94)
177	5.00 - 9.00% of mass 176	3.33 (6.49)

LW 10-6-04

10/6/04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\100604.b\HJ611.D

Date : 06-OCT-2004 15:18

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

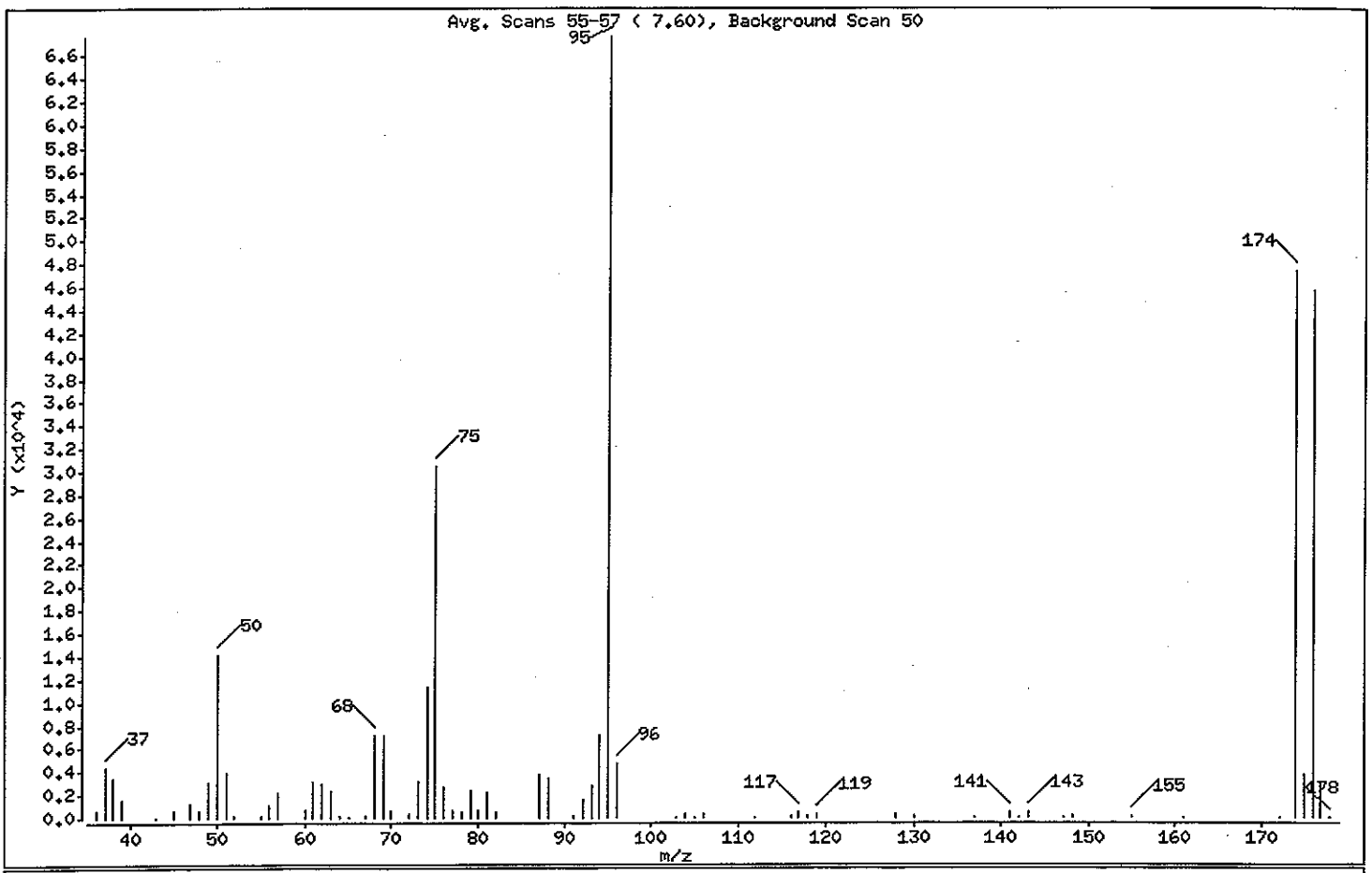
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.84
75	30.00 - 60.00% of mass 95	45.02
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	70.13
175	5.00 - 9.00% of mass 174	5.55 (7.92)
176	95.01 - 100.99% of mass 174	67.50 (96.26)
177	5.00 - 9.00% of mass 176	4.43 (6.56)

LW 10-6-04

8260 ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Calibration levels: Manual Integrations are for splitting

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	hie11	474372175011	1.0/0.5 PPB	14-SEP-2004 17:11	04SS331 (500000X), 04WS1422E (500000X), 04WS1715A (1000000X), 04WS1453C (5000X)
2	hie12	474372175012	5 PPB	14-SEP-2004 17:47	04SS331 (100000X), 04WS1422E (50000X), 04WS1715A (200000X), 04WS1453C (5000X)
3	hie13	474372175013	10 PPB	14-SEP-2004 18:23	04SS331 (50000X), 04WS1422E (25000X), 04WS1715A (100000X), 04WS1453C (5000X)
4	hie14	474372175014	20 PPB	14-SEP-2004 18:59	04SS331 (25000X), 04WS1422E (12500X), 04WS1715A (50000X), 04WS1453C (5000X)
5	hie15	474372175015	50 PPB	14-SEP-2004 19:35	04SS331 (10000X), 04WS1422E (5000X), 04WS1715A (20000X), 04WS1453C (5000X)
6	hie16	474372175016	75 PPB	14-SEP-2004 20:12	04SS331 (6667X), 04WS1422E (3333X), 04WS1715A (13333X), 04WS1453C (5000X)
7	hie17	474372175017	100 PPB	14-SEP-2004 20:48	04SS331 (5000X), 04WS1422E (2500X), 04WS1715A (10000X), 04WS1453C (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4578	0.4232	0.4493	0.4397	0.4224	0.4372	0.4353	AVRG	R		2.283820		ug/L	0.4379	3	0.0500	0.99	15	
Chloromethane	0.4161	0.4677	0.4318	0.4244	0.4172	0.4280	0.4155	AVRG	R		2.332771		ug/L	0.4287	4	0.1000	0.99	15	
Vinyl Chloride	0.2965	0.3146	0.3015	0.3044	0.2794	0.2849	0.2784	AVRG	R		3.398561		ug/L	0.2942	5	0.0500	0.99	15	
Bromomethane	0.1483	0.1533	0.1692	0.1814	0.1946	0.2163		AVRG	R		5.643466		ug/L	0.1772	15	0.0500	0.99	15	
Chloroethane	0.1791	0.1976	0.1937	0.1891	0.1866	0.1936	0.1864	AVRG	R		5.278693		ug/L	0.1894	3	0.0500	0.99	15	
Trichloroflucromethane	0.5127	0.4919	0.5154	0.5149	0.5059	0.5135	0.5164	AVRG	R		1.960390		ug/L	0.5101	2	0.0500	0.99	15	
Acetone		0.2178	0.1481	0.1445	0.1491	0.1523		LINR	R	-0.44153	6.663410		ug/L	0.1624	0.998	0.0500	0.99	15	
Freon 113	0.3591	0.2728	0.2989	0.2833	0.2862	0.2962	0.2971	AVRG	R		3.343482		ug/L	0.2991	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3131	0.2901	0.3040	0.2914	0.2896	0.2941	0.2938	AVRG	R		3.371720		ug/L	0.2966	3	0.0500	0.99	15	
Methylene Chloride		0.4282	0.3904	0.3766	0.3739	0.3672	0.3712	AVRG	R		2.600248		ug/L	0.3846	6	0.0500	0.99	15	
Carbon Disulfide	1.2036	1.1669	1.1533	1.1227	1.1227	1.1241	1.1456	AVRG	R		0.870775		ug/L	1.1484	3	0.0500	0.99	15	
MTBE	0.8012	0.8837	0.8138	0.8256	0.8140	0.8051	0.8265	AVRG	R		1.213180		ug/L	0.8243	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.3615	0.3580	0.3353	0.3231	0.3252	0.3222	0.3317	AVRG	R		2.969970		ug/L	0.3367	5	0.0500	0.99	15	
Vinyl Acetate	1.0732	1.0151	0.9125	0.9224	0.8903	0.8853	0.8874	AVRG	R		1.062833		ug/L	0.9409	8	0.0500	0.99	15	
1,1-Dichloroethane	0.6204	0.6659	0.6141	0.6099	0.6000	0.5911	0.5910	AVRG	R		1.630768		ug/L	0.6132	4	0.1000	0.99	15	
2-Butanone		0.2519	0.2088	0.2041	0.1962	0.1967	0.1824	AVRG	R		4.838185		ug/L	0.2067	12	0.0500	0.99	15	
2,2-Dichloropropane	0.4639	0.4500	0.4473	0.4224	0.4195	0.4217	0.4254	AVRG	R		2.294948		ug/L	0.4357	4	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.3277	0.3768	0.3522	0.3423	0.3421	0.3417	0.3409	AVRG	R		2.888269		ug/L	0.3462	4	0.0500	0.99	15	

ICAL OK except 2-Clave Failed and did not meet min RF ICV OK CUSACE Freon 114, Chloromethane

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

LW 9-15-04

09/15/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.5918	0.6264	0.5846	0.5826	0.5802	0.5678	0.5826	AVRG R		1.700656		ug/L	0.5880	3	0.0500	0.99	15	
Bromochloromethane	0.1631	0.1738	0.1681	0.1650	0.1695	0.1661	0.1691	AVRG R		5.959235		ug/L	0.1678	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.4074	0.4400	0.4316	0.4208	0.4255	0.4286	0.4368	AVRG R		2.340623		ug/L	0.4272	3	0.0500	0.99	15	
1,1-Dichloropropene	0.2926	0.2570	0.2624	0.2530	0.2557	0.2556	0.2592	AVRG R		3.813686		ug/L	0.2622	5	0.0500	0.99	15	
Carbon Tetrachloride	0.2076	0.1976	0.2047	0.2005	0.2046	0.2039	0.2103	AVRG R		4.880711		ug/L	0.2049	2	0.0500	0.99	15	
1,2-Dichloroethane	0.2494	0.2876	0.2646	0.2616	0.2649	0.2572	0.2631	AVRG R		3.787093		ug/L	0.2641	4	0.0500	0.99	15	
Benzene	0.8221	0.8000	0.7346	0.7157	0.7232	0.7156	0.7153	AVRG R		1.339325		ug/L	0.7466	6	0.0500	0.99	15	
Trichloroethene	0.1931	0.1961	0.1865	0.1772	0.1821	0.1797	0.1814	AVRG R		5.400411		ug/L	0.1852	4	0.0500	0.99	15	
1,2-Dichloropropane	0.1988	0.2091	0.1912	0.1925	0.1966	0.1901	0.1912	AVRG R		5.111756		ug/L	0.1956	3	0.0500	0.99	15	
Bromodichloromethane	0.2704	0.2749	0.2566	0.2546	0.2573	0.2545	0.2570	AVRG R		3.835302		ug/L	0.2607	3	0.0500	0.99	15	
Dibromomethane	0.1507	0.1580	0.1472	0.1471	0.1475	0.1437	0.1466	AVRG R		6.726260		ug/L	0.1487	3	0.0500	0.99	15	
2-Chloroethylvinylether			3.1E-4	3.0E-4m	3.3E-4	3.4E-4m	2.8E-4	AVRG R		3200.680		ug/L	3.1E-4	8	0.0500	0.99	15	irf ***
4-Methyl-2-Pentanone		0.2687	0.2376	0.2474	0.2295	0.2288	0.2280	AVRG R		4.166635		ug/L	0.2400	7	0.0500	0.99	15	
Tetramethyl THF	0.5980	0.5094	0.4794	0.4713	0.4607	0.4528	0.4547	AVRG R		2.043063		ug/L	0.4895	11	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.3230	0.3369	0.3092	0.3123	0.3116	0.3091	0.3091	AVRG R		3.165771		ug/L	0.3159	3	0.0500	0.99	15	
Toluene	0.4291	0.4477	0.4262	0.4121	0.4107	0.4113	0.4100	AVRG R		2.375258		ug/L	0.4210	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.2749	0.2959	0.2779	0.2745	0.2838	0.2782	0.2794	AVRG R		3.563041		ug/L	0.2807	3	0.0500	0.99	15	
1,1,2-Trichloroethane	0.0976	0.1186	0.0997	0.0994	0.1044	0.1022	0.1033	AVRG R		9.650696		ug/L	0.1036	7	0.0500	0.99	15	
2-Hexanone		0.2340	0.1949	0.2041	0.1964	0.1961	0.1898	AVRG R		4.936653		ug/L	0.2026	8	0.0500	0.99	15	
1,3-Dichloropropane	0.3475	0.3861	0.3573	0.3596	0.3588	0.3529	0.3420	AVRG R		2.795335		ug/L	0.3577	4	0.0500	0.99	15	
Tetrachloroethene	0.1804	0.1898	0.1938	0.1843	0.1893	0.1902	0.1867	AVRG R		5.324905		ug/L	0.1878	2	0.0500	0.99	15	
Dibromochloromethane	0.2093	0.2439	0.2327	0.2279	0.2321	0.2306	0.2299	AVRG R		4.357680		ug/L	0.2295	4	0.0500	0.99	15	
1,2-Dibromoethane	0.1897	0.2031	0.1904	0.1925	0.1901	0.1865	0.1888	AVRG R		5.219081		ug/L	0.1916	3	0.0500	0.99	15	
Chlorobenzene	0.5713	0.6046	0.5704	0.5706	0.5546	0.5507	0.5488	AVRG R		1.762829		ug/L	0.5673	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.1802	0.1979	0.1906	0.1851	0.1899	0.1875	0.1900	AVRG R		5.298756		ug/L	0.1887	3	0.0500	0.99	15	
Ethylbenzene	0.9731	1.0360	0.9919	0.9603	0.9807	0.9799	0.9645	AVRG R		1.016491		ug/L	0.9838	3	0.0500	0.99	15	
m,p-Xylenes	0.3406	0.3823	0.3636	0.3477	0.3497	0.3408	0.3319	AVRG R		2.849415		ug/L	0.3509	5	0.0500	0.99	15	
o-Xylene	0.3539	0.3726	0.3592	0.3455	0.3430	0.3315	0.3270	AVRG R		2.877512		ug/L	0.3475	5	0.0500	0.99	15	
Styrene	0.6016	0.6460	0.6121	0.6000	0.5965	0.5769	0.5697	AVRG R		1.665608		ug/L	0.6004	4	0.0500	0.99	15	
Bromoform	0.2008	0.1793	0.1603	0.1601	0.1613	0.1612	0.1624	AVRG R		5.904960		ug/L	0.1693	9	0.1000	0.99	15	
Isopropylbenzene	1.8431	1.9822	1.8570	1.8870	1.8667	1.8079	1.8292	AVRG R		0.535452		ug/L	1.8676	3	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.6175	0.7120	0.6471	0.6776	0.6560	0.6383	0.6403	AVRG	R		1.525464		ug/L	0.6555	5	0.3000	0.99	15	
1,2,3-Trichloropropane	0.2310	0.1768	0.1595	0.1637	0.1598	0.1515	0.1559	LINR	R	-0.65937	6.496474		ug/L	0.1712	0.999	0.0500	0.99	15	
Propylbenzene	2.3723	2.5907	2.4320	2.4427	2.4094	2.3244	2.3164	AVRG	R		0.414495		ug/L	2.4126	4	0.0500	0.99	15	
Bromobenzene	0.4520	0.5010	0.4638	0.4597	0.4681	0.4460	0.4491	AVRG	R		2.160662		ug/L	0.4628	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.5079	1.6238	1.5450	1.5431	1.5400	1.5007	1.4897	AVRG	R		0.651147		ug/L	1.5358	3	0.0500	0.99	15	
2-Chlorotoluene	1.6287	1.7247	1.6394	1.5893	1.5655	1.5262	1.5185	AVRG	R		0.625424		ug/L	1.5989	5	0.0500	0.99	15	
4-Chlorotoluene	1.4676	1.6347	1.4424	1.4646	1.5077	1.4736	1.4496	AVRG	R		0.670489		ug/L	1.4914	4	0.0500	0.99	15	
tert-Butylbenzene	1.3062	1.4369	1.3640m	1.4059	1.3585	1.3642	1.3537	AVRG	R		0.729971		ug/L	1.3699	3	0.0500	0.99	15	
1,2,4-Trimethylbenzene	1.5289	1.7224	1.5669	1.5669	1.5627	1.5399	1.5221	AVRG	R		0.635795		ug/L	1.5728	4	0.0500	0.99	15	
sec-Butylbenzene	2.2267	2.2076	2.1437	2.1005	2.0963	2.0668	2.0689	AVRG	R		0.469471		ug/L	2.1301	3	0.0500	0.99	15	
para-Isopropyl Toluene	1.5622	1.7431	1.6593	1.6488	1.6602	1.6187	1.6245	AVRG	R		0.607810		ug/L	1.6453	3	0.0500	0.99	15	
1,3-Dichlorobenzene	0.8936	0.9687	0.8847	0.8622	0.8708	0.8459	0.8644	AVRG	R		1.130817		ug/L	0.8843	5	0.0500	0.99	15	
1,4-Dichlorobenzene	0.8787	0.9883	0.9005	0.8883	0.9083	0.8838	0.8773	AVRG	R		1.106680		ug/L	0.9036	4	0.0500	0.99	15	
n-Butylbenzene	1.6149	1.7166	1.6681	1.6717	1.6658	1.6308	1.6270	AVRG	R		0.603714		ug/L	1.6564	2	0.0500	0.99	15	
1,2-Dichlorobenzene	0.8292	0.9182	0.8464	0.8528	0.8392	0.8242	0.8309	AVRG	R		1.178285		ug/L	0.8487	4	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1142m	0.1235	0.1084	0.1138	0.1072	0.1055	0.1065	AVRG	R		8.983715		ug/L	0.1113	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.5203	0.5626	0.5239	0.5439	0.5403	0.5277	0.5378	AVRG	R		1.863494		ug/L	0.5366	3	0.0500	0.99	15	
Hexachlorobutadiene	0.2030	0.2118	0.2180	0.2151	0.2135	0.2174	0.2225	AVRG	R		4.662283		ug/L	0.2145	3	0.0500	0.99	15	
Naphthalene	1.0888	1.3360	1.2562	1.3762	1.4356	1.3759	1.4424	AVRG	R		0.751792		ug/L	1.3302	9	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.5130	0.5648	0.5228	0.5362	0.5353	0.5283	0.5309	AVRG	R		1.876054		ug/L	0.5330	3	0.0500	0.99	15	
Dibromofluoromethane	0.6060	0.6161	0.6039	0.6052	0.6039	0.6096	0.6134	AVRG	R		1.643906		ug/L	0.6083	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4070	0.3999	0.3972	0.3984	0.3923	0.3936	0.4040	AVRG	R		2.506887		ug/L	0.3989	1	0.0500	0.99	15	
Trifluorotoluene	0.2466	0.2556	0.2601	0.2488	0.2538	0.2529	0.2580	AVRG	R		3.941859		ug/L	0.2537	2	0.0500	0.99	15	
Toluene-d8	1.0020	0.9920	0.9922	0.9855	0.9751	0.9873	0.9875	AVRG	R		1.011318		ug/L	0.9888	1	0.0500	0.99	15	
Bromofluorobenzene	1.1576	1.1733	1.1553	1.1695	1.1602	1.1664	1.1479	AVRG	R		0.860994		ug/L	1.1614	1	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175018 Filename : hie18 Injected : 14-SEP-2004 21:24
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1541 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	36.81200	ug/L	-26	30	!v-
Chloromethane	50.00000	37.78070	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	40.70280	ug/L	-19	20	
Bromomethane	50.00000	53.40110	ug/L	7	30	
Chloroethane	50.00000	44.96540	ug/L	-10	30	
Trichlorofluoromethane	50.00000	48.26010	ug/L	-3	30	
Dibromofluoromethane	50.00000	48.91830	ug/L	-2	30	
1,2-Dichloroethane-d4	50.00000	48.85870	ug/L	-2	30	
Toluene-d8	50.00000	52.32620	ug/L	5	30	
Bromofluorobenzene	50.00000	49.76170	ug/L	0	30	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2538256	8.23	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4346886	7.55	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3487400	6.00	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1640381	5.93	19.34	19.34	0.00

LW 9-15-04

09/15/04

!=warning -=low bias v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08
Seqnum : 474372175019
Calnum : 474372175001
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Run Name :
Filename : hie19
Caldate : 14-SEP-2004

Injected : 14-SEP-2004 22:01
Caltype : WATER

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	60.25130	ug/L	21	40	
Freon 113	50.00000	52.16000	ug/L	4	30	
1,1-Dichloroethene	50.00000	45.62080	ug/L	-9	20	
Methylene Chloride	50.00000	48.00290	ug/L	-4	30	
Carbon Disulfide	50.00000	42.50020	ug/L	-15	30	
MTBE	50.00000	54.70120	ug/L	9	30	
trans-1,2-Dichloroethene	50.00000	47.35270	ug/L	-5	30	
Vinyl Acetate	50.00000	41.53400	ug/L	-17	40	
1,1-Dichloroethane	50.00000	49.14810	ug/L	-2	30	
2-Butanone	50.00000	51.21330	ug/L	2	40	
2,2-Dichloropropane	50.00000	45.84170	ug/L	-8	30	
cis-1,2-Dichloroethene	50.00000	50.17280	ug/L	0	30	
Chloroform	50.00000	48.81910	ug/L	-2	20	
Bromochloromethane	50.00000	50.09810	ug/L	0	30	
1,1,1-Trichloroethane	50.00000	50.71680	ug/L	1	30	
1,1-Dichloropropene	50.00000	46.59160	ug/L	-7	30	
Carbon Tetrachloride	50.00000	50.00650	ug/L	0	30	
1,2-Dichloroethane	50.00000	49.23660	ug/L	-2	30	
Benzene	50.00000	48.14280	ug/L	-4	30	
Trichloroethene	50.00000	49.05030	ug/L	-2	30	
1,2-Dichloropropane	50.00000	48.72520	ug/L	-3	20	
Bromodichloromethane	50.00000	50.93940	ug/L	2	30	
Dibromomethane	50.00000	49.29190	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	53.36300	ug/L	7	40	m
4-Methyl-2-Pentanone	50.00000	47.61960	ug/L	-5	40	
Tetramethyl THF	50.00000	46.25830	ug/L	-7	30	
cis-1,3-Dichloropropene	50.00000	49.05400	ug/L	-2	30	
Toluene	50.00000	49.17120	ug/L	-2	20	
trans-1,3-Dichloropropene	50.00000	46.64990	ug/L	-7	30	
1,1,2-Trichloroethane	50.00000	50.46680	ug/L	1	30	
2-Hexanone	50.00000	50.88010	ug/L	2	40	
1,3-Dichloropropane	50.00000	50.01910	ug/L	0	30	
Tetrachloroethene	50.00000	49.41550	ug/L	-1	30	
Dibromochloromethane	50.00000	51.08630	ug/L	2	30	
1,2-Dibromoethane	50.00000	50.20010	ug/L	0	30	
Chlorobenzene	50.00000	48.66860	ug/L	-3	30	
1,1,1,2-Tetrachloroethane	50.00000	51.13880	ug/L	2	30	
Ethylbenzene	50.00000	50.20740	ug/L	0	20	
m,p-Xylenes	100.0000	98.19230	ug/L	-2	30	
o-Xylene	50.00000	48.63240	ug/L	-3	30	
Styrene	50.00000	50.03350	ug/L	0	30	
Bromoform	50.00000	49.23880	ug/L	-2	30	
Isopropylbenzene	50.00000	45.05810	ug/L	-10	30	
1,1,2,2-Tetrachloroethane	50.00000	50.61820	ug/L	1	30	
1,2,3-Trichloropropane	50.00000	52.73700	ug/L	5	30	
Propylbenzene	50.00000	49.02090	ug/L	-2	30	
Bromobenzene	50.00000	50.86910	ug/L	2	30	

m=manual integration
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175019 Filename : hie19 Injected : 14-SEP-2004 22:01
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	49.75170	ug/L	0	30	
2-Chlorotoluene	50.00000	49.20140	ug/L	-2	30	
4-Chlorotoluene	50.00000	48.50520	ug/L	-3	30	
tert-Butylbenzene	50.00000	50.02040	ug/L	0	30	
1,2,4-Trimethylbenzene	50.00000	50.44110	ug/L	1	30	
sec-Butylbenzene	50.00000	48.61160	ug/L	-3	30	
para-Isopropyl Toluene	50.00000	47.97740	ug/L	-4	30	
1,3-Dichlorobenzene	50.00000	48.47920	ug/L	-3	30	
1,4-Dichlorobenzene	50.00000	49.74920	ug/L	-1	30	
n-Butylbenzene	50.00000	50.67410	ug/L	1	30	
1,2-Dichlorobenzene	50.00000	50.30820	ug/L	1	30	
1,2-Dibromo-3-Chloropropane	50.00000	51.82510	ug/L	4	30	
1,2,4-Trichlorobenzene	50.00000	51.15440	ug/L	2	30	
Hexachlorobutadiene	50.00000	51.71210	ug/L	3	30	
Naphthalene	50.00000	59.42570	ug/L	19	30	
1,2,3-Trichlorobenzene	50.00000	52.06140	ug/L	4	30	
Dibromofluoromethane	50.00000	49.85050	ug/L	0	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	49.56910	ug/L	-1	30	(NOT USED)
Toluene-d8	50.00000	48.85450	ug/L	-2	30	(NOT USED)
Bromofluorobenzene	50.00000	49.60330	ug/L	-1	30	(NOT USED)

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2465873	5.14	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4309516	6.62	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3490304	6.09	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1667147	7.66	19.34	19.34	0.00

LW 9-15-04

09/15/04

m=manual integration
Page 2 of 2

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 17:11 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.002/1000,04WS1422E,0.002/1000,
Misc Info : 04WS1715A,0.001/1000,1.0/0.5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 17:11 Cal File: HIE11.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.121	3.115	(0.364)	19073	1.00000	1.0456
2 Chloromethane	50	3.476	3.460	(0.405)	17336	1.00000	0.9707
3 Vinyl Chloride	62	3.614	3.598	(0.421)	12350	1.00000	1.0075
4 Bromomethane	94	4.216	4.219	(0.491)	6378	1.00000	0.8369
5 Chloroethane	64	4.334	4.338	(0.505)	7461	1.00000	0.9453
6 Trichlorofluoromethane	101	4.758	4.762	(0.554)	21359	1.00000	1.0050
7 Acetone	43	5.300	5.304	(0.618)	13799	0.50000	1.7656
8 Freon 113	101	5.418	5.422	(0.631)	7480	0.50000	0.6003
9 1,1-Dichloroethene	96	5.596	5.600	(0.652)	6522	0.50000	0.5278
10 Methylene Chloride	84	6.207	6.211	(0.723)	12761	0.50000	0.7964
11 Carbon Disulfide	76	6.296	6.300	(0.734)	25071	0.50000	0.5240
12 MTBE	73	6.562	6.546	(0.765)	16689	0.50000	0.4860(a)
13 trans-1,2-Dichloroethene	96	6.710	6.704	(0.782)	7530	0.50000	0.5368
14 Vinyl Acetate	43	7.242	7.236	(0.844)	22354	0.50000	0.5703
15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	12922	0.50000	0.5058
16 2-Butanone	43	7.824	7.808	(0.912)	9042	0.50000	1.0501
17 2,2-Dichloropropane	77	8.130	8.134	(0.947)	9662	0.50000	0.5322
18 cis-1,2-Dichloroethene	96	8.130	8.134	(0.947)	6825	0.50000	0.4731(a)
19 Chloroform	83	8.386	8.380	(0.977)	12328	0.50000	0.5032
* 20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2082978	50.0000	
21 Bromochloromethane	128	8.574	8.577	(0.999)	3397	0.50000	0.4859(a)
$ 22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1262234	50.0000	49.8083

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.047	9.041	(1.054)	8490	0.50000	0.4768(a)
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	10568	0.50000	0.5579
$	25 1,2-Dichloroethane-d4	65	9.402	9.396	(0.935)	1469944	50.0000	51.0108
	26 Carbon Tetrachloride	117	9.461	9.465	(0.941)	7500	0.50000	0.5067
	27 1,2-Dichloroethane	62	9.530	9.534	(0.948)	9007	0.50000	0.4721(a)
	28 Benzene	78	9.648	9.642	(0.960)	29693	0.50000	0.5505
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	3611963	50.0000	
	30 Trichloroethene	95	10.605	10.618	(1.055)	6974	0.50000	0.5213
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	8908	0.50000	0.4860(aA)
	32 1,2-Dichloropropane	63	10.841	10.835	(1.078)	7179	0.50000	0.5079
	33 Bromodichloromethane	83	11.167	11.160	(1.111)	9765	0.50000	0.5184
	34 Dibromomethane	93	11.216	11.210	(1.116)	5443	0.50000	0.5068
	36 4-Methyl-2-Pentanone	43	11.738	11.732	(1.168)	12136	0.50000	0.6999
	37 Tetramethyl THF	43	11.936	11.920	(1.187)	21599	0.50000	0.6108(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	11666	0.50000	0.5112
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3619312	50.0000	50.6687
	40 Toluene	92	12.645	12.649	(1.258)	15499	0.50000	0.5096
	41 trans-1,3-Dichloropropene	75	12.823	12.827	(1.276)	9930	0.50000	0.4897(a)
	42 1,1,2-Trichloroethane	85	13.099	13.093	(1.303)	3524	0.50000	0.4707(a)
	43 2-Hexanone	43	13.158	13.152	(0.875)	9622	0.50000	0.7962
	44 1,3-Dichloropropane	76	13.503	13.507	(0.898)	10365	0.50000	0.4856(a)
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	5381	0.50000	0.4802(a)
	46 Dibromochloromethane	129	13.957	13.961	(0.928)	6242	0.50000	0.4559(a)
	47 1,2-Dibromoethane	107	14.322	14.315	(1.425)	6852	0.50000	0.4950(a)
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	2982900	50.0000	
	49 Chlorobenzene	112	15.100	15.104	(1.004)	17041	0.50000	0.5035
	50 1,1,1,2-Tetrachloroethane	131	15.160	15.173	(1.008)	5375	0.50000	0.4774(a)
	51 Ethylbenzene	91	15.238	15.232	(1.013)	29027	0.50000	0.4945(a)
	52 m,p-Xylenes	106	15.396	15.390	(1.024)	20320	1.00000	0.9705
	53 o-Xylene	106	16.146	16.139	(1.073)	10556	0.50000	0.5091
	54 Styrene	104	16.165	16.159	(1.075)	17944	0.50000	0.5009
	55 Bromoform	173	16.648	16.652	(1.107)	5990	0.50000	0.5928
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	25989	0.50000	0.4934(a)
	57 1,1,2,2-Tetrachloroethane	83	16.964	16.958	(0.877)	8708	0.50000	0.4710(a)
$	58 Bromofluorobenzene	95	17.171	17.165	(0.888)	1632293	50.0000	49.8335
	60 Bromobenzene	156	17.516	17.510	(0.906)	6374	0.50000	0.4883(a)
	61 Propylbenzene	91	17.526	17.520	(0.906)	33452	0.50000	0.4916(a)
	62 2-Chlorotoluene	91	17.802	17.796	(0.920)	22966	0.50000	0.5093
	63 1,3,5-Trimethylbenzene	105	17.812	17.816	(0.921)	21263	0.50000	0.4909(a)
	64 4-Chlorotoluene	91	17.891	17.885	(0.925)	20694	0.50000	0.4919(a)
	65 tert-Butylbenzene	119	18.463	18.456	(0.955)	18418	0.50000	0.4767(a)
	66 1,2,4-Trimethylbenzene	105	18.522	18.525	(0.958)	21559	0.50000	0.4860(a)
	67 sec-Butylbenzene	105	18.857	18.861	(0.975)	31398	0.50000	0.5226
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	22028	0.50000	0.4747(a)
	69 1,3-Dichlorobenzene	146	19.212	19.216	(0.993)	12600	0.50000	0.5052
*	70 1,4-Dichlorobenzene-d4	152	19.340	19.334	(1.000)	1410089	50.0000	
	71 1,4-Dichlorobenzene	146	19.389	19.393	(1.003)	12391	0.50000	0.4862(a)
	72 n-Butylbenzene	91	19.863	19.866	(1.027)	22772	0.50000	0.4874(a)
	73 1,2-Dichlorobenzene	146	20.060	20.064	(1.037)	11692	0.50000	0.4884(a)
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	1610	0.50000	0.5128(M)
	75 1,2,4-Trichlorobenzene	180	23.057	23.061	(1.192)	7337	0.50000	0.4848(a)
	76 Hexachlorobutadiene	225	23.353	23.357	(1.207)	2863	0.50000	0.4733(a)
	77 Naphthalene	128	23.422	23.426	(1.211)	15353	0.50000	0.4092(a)
	78 1,2,3-Trichlorobenzene	180	23.836	23.840	(1.232)	7234	0.50000	0.4812(a)

LW 9-15-04

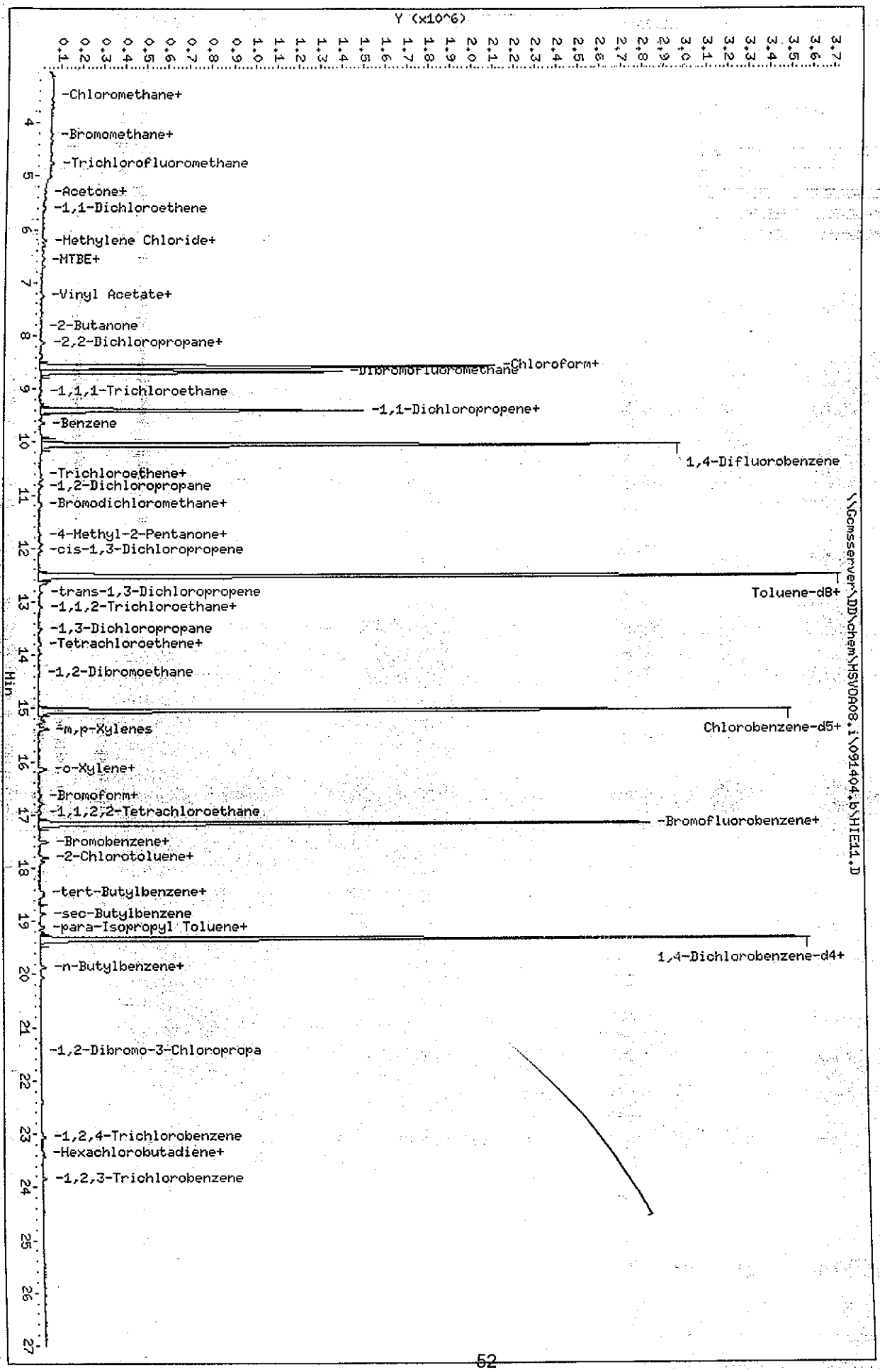
Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Date : 14-SEP-2004 17:11
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.002/1000,04WS1422E,0.002/1000,
Purge Volume: 5.0
Column phase: RTX Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 17:47 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.005/500,04WS1422E,0.01/500,
Misc Info : 04WS1715A,0.0025/500,5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 17:47 Cal File: HIE12.D
Als bottle: 12 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Freon 12	85	3.125	3.115	(0.364)	90037	5.00000	4.8328
	2 Chloromethane	50	3.470	3.460	(0.405)	99491	5.00000	5.4547
	3 Vinyl Chloride	62	3.618	3.598	(0.422)	66935	5.00000	5.3464
	4 Bromomethane	94	4.219	4.219	(0.492)	32619	5.00000	4.3265
	5 Chloroethane	64	4.347	4.338	(0.507)	42046	5.00000	5.2164
	6 Trichlorofluoromethane	101	4.761	4.762	(0.555)	104649	5.00000	4.8216
	7 Acetone	43	5.303	5.304	(0.618)	46342	5.00000	6.8158
	8 Freon 113	101	5.432	5.422	(0.633)	58040	5.00000	4.5608
	9 1,1-Dichloroethene	96	5.599	5.600	(0.653)	61714	5.00000	4.8905
	10 Methylene Chloride	84	6.211	6.211	(0.724)	91102	5.00000	5.5675
	11 Carbon Disulfide	76	6.299	6.300	(0.734)	248347	5.00000	5.0805
	12 MTBE	73	6.546	6.546	(0.763)	188009	5.00000	5.3607
	13 trans-1,2-Dichloroethene	96	6.704	6.704	(0.782)	76153	5.00000	5.3156
	14 Vinyl Acetate	43	7.236	7.236	(0.844)	215951	5.00000	5.3943
	15 1,1-Dichloroethane	63	7.265	7.266	(0.847)	141662	5.00000	5.4295
	16 2-Butanone	43	7.818	7.808	(0.911)	53599	5.00000	6.0947
	17 2,2-Dichloropropane	77	8.133	8.134	(0.948)	95739	5.00000	5.1639
	18 cis-1,2-Dichloroethene	96	8.143	8.134	(0.949)	80151	5.00000	5.4408
	19 Chloroform	83	8.380	8.380	(0.977)	133253	5.00000	5.3261
*	20 Pentafluorobenzene	168	8.577	8.577	(1.000)	2127403	50.0000	
	21 Bromochloromethane	128	8.577	8.577	(1.000)	36966	5.00000	5.1774
$	22 Dibromofluoromethane	113	8.675	8.676	(1.011)	1310755	50.0000	50.6429

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.040	9.041	(1.054)	93605	5.00000	5.1493
	24 1,1-Dichloropropene	75	9.287	9.287	(0.924)	96006	5.00000	4.9001
$	25 1,2-Dichloroethane-d4	65	9.395	9.396	(0.935)	1493848	50.0000	50.1194
	26 Carbon Tetrachloride	117	9.454	9.465	(0.941)	73839	5.00000	4.8231
	27 1,2-Dichloroethane	62	9.543	9.534	(0.950)	107436	5.00000	5.4452
	28 Benzene	78	9.651	9.642	(0.961)	298871	5.00000	5.3571
*	29 1,4-Difluorobenzene	114	10.046	10.046	(1.000)	3735987	50.0000	
	30 Trichloroethene	95	10.618	10.618	(1.057)	73268	5.00000	5.2954
$	31 Trifluorotoluene	146	10.706	10.707	(1.066)	95485	5.00000	5.0373(A)
	32 1,2-Dichloropropane	63	10.835	10.835	(1.079)	78109	5.00000	5.3436
	33 Bromodichloromethane	83	11.170	11.160	(1.112)	102684	5.00000	5.2706
	34 Dibromomethane	93	11.219	11.210	(1.117)	59036	5.00000	5.3144
	36 4-Methyl-2-Pentanone	43	11.742	11.732	(1.169)	100398	5.00000	5.5985
	37 Tetramethyl THF	43	11.919	11.920	(1.186)	190329	5.00000	5.2041(A)
	38 cis-1,3-Dichloropropene	75	12.037	12.038	(1.198)	125881	5.00000	5.3334
$	39 Toluene-d8	98	12.521	12.521	(1.246)	3706237	50.0000	50.1632
	40 Toluene	92	12.649	12.649	(1.259)	167254	5.00000	5.3168
	41 trans-1,3-Dichloropropene	75	12.826	12.827	(1.277)	110555	5.00000	5.2718
	42 1,1,2-Trichloroethane	85	13.102	13.093	(1.304)	44324	5.00000	5.7248
	43 2-Hexanone	43	13.152	13.152	(0.874)	71164	5.00000	5.7763
	44 1,3-Dichloropropane	76	13.507	13.507	(0.898)	117411	5.00000	5.3963
	45 Tetrachloroethene	166	13.792	13.793	(0.917)	57714	5.00000	5.0530
	46 Dibromochloromethane	129	13.960	13.961	(0.928)	74181	5.00000	5.3150
	47 1,2-Dibromoethane	107	14.315	14.315	(1.425)	75883	5.00000	5.3003
*	48 Chlorobenzene-d5	117	15.045	15.045	(1.000)	3040973	50.0000	
	49 Chlorobenzene	112	15.104	15.104	(1.004)	183859	5.00000	5.3290
	50 1,1,1,2-Tetrachloroethane	131	15.173	15.173	(1.009)	60169	5.00000	5.2420
	51 Ethylbenzene	91	15.242	15.232	(1.013)	315055	5.00000	5.2655
	52 m,p-Xylenes	106	15.390	15.390	(1.023)	232529	10.0000	10.8940
	53 o-Xylene	106	16.139	16.139	(1.073)	113301	5.00000	5.3605
	54 Styrene	104	16.159	16.159	(1.074)	196436	5.00000	5.3796
	55 Bromoform	173	16.652	16.652	(1.107)	54533	5.00000	5.2946
	56 Isopropylbenzene	105	16.800	16.790	(0.869)	284152	5.00000	5.3067
	57 1,1,2,2-Tetrachloroethane	83	16.957	16.958	(0.877)	102065	5.00000	5.4304
$	58 Bromofluorobenzene	95	17.164	17.165	(0.888)	1681974	50.0000	50.5098
	59 1,2,3-Trichloropropane	110	17.224	17.224	(0.891)	25352	5.00000	5.0850
	60 Bromobenzene	156	17.509	17.510	(0.906)	71822	5.00000	5.4125
	61 Propylbenzene	91	17.519	17.520	(0.906)	371396	5.00000	5.3692
	62 2-Chlorotoluene	91	17.805	17.796	(0.921)	247244	5.00000	5.3933
	63 1,3,5-Trimethylbenzene	105	17.815	17.816	(0.921)	232784	5.00000	5.2867
	64 4-Chlorotoluene	91	17.894	17.885	(0.926)	234343	5.00000	5.4802
	65 tert-Butylbenzene	119	18.466	18.456	(0.955)	205986	5.00000	5.2444
	66 1,2,4-Trimethylbenzene	105	18.525	18.525	(0.958)	246918	5.00000	5.4755
	67 sec-Butylbenzene	105	18.860	18.861	(0.976)	316467	5.00000	5.1819
	68 para-Isopropyl Toluene	119	19.117	19.117	(0.989)	249888	5.00000	5.2974
	69 1,3-Dichlorobenzene	146	19.215	19.216	(0.994)	138866	5.00000	5.4770
*	70 1,4-Dichlorobenzene-d4	152	19.333	19.334	(1.000)	1433551	50.0000	
	71 1,4-Dichlorobenzene	146	19.393	19.393	(1.003)	141681	5.00000	5.4687
	72 n-Butylbenzene	91	19.866	19.866	(1.028)	246085	5.00000	5.1817
	73 1,2-Dichlorobenzene	146	20.063	20.064	(1.038)	131623	5.00000	5.4092
	74 1,2-Dibromo-3-Chloropropane	75	21.433	21.434	(1.109)	17708	5.00000	5.5485
	75 1,2,4-Trichlorobenzene	180	23.060	23.061	(1.193)	80646	5.00000	5.2416
	76 Hexachlorobutadiene	225	23.356	23.357	(1.208)	30361	5.00000	4.9370
	77 Naphthalene	128	23.425	23.426	(1.212)	191521	5.00000	5.0219

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

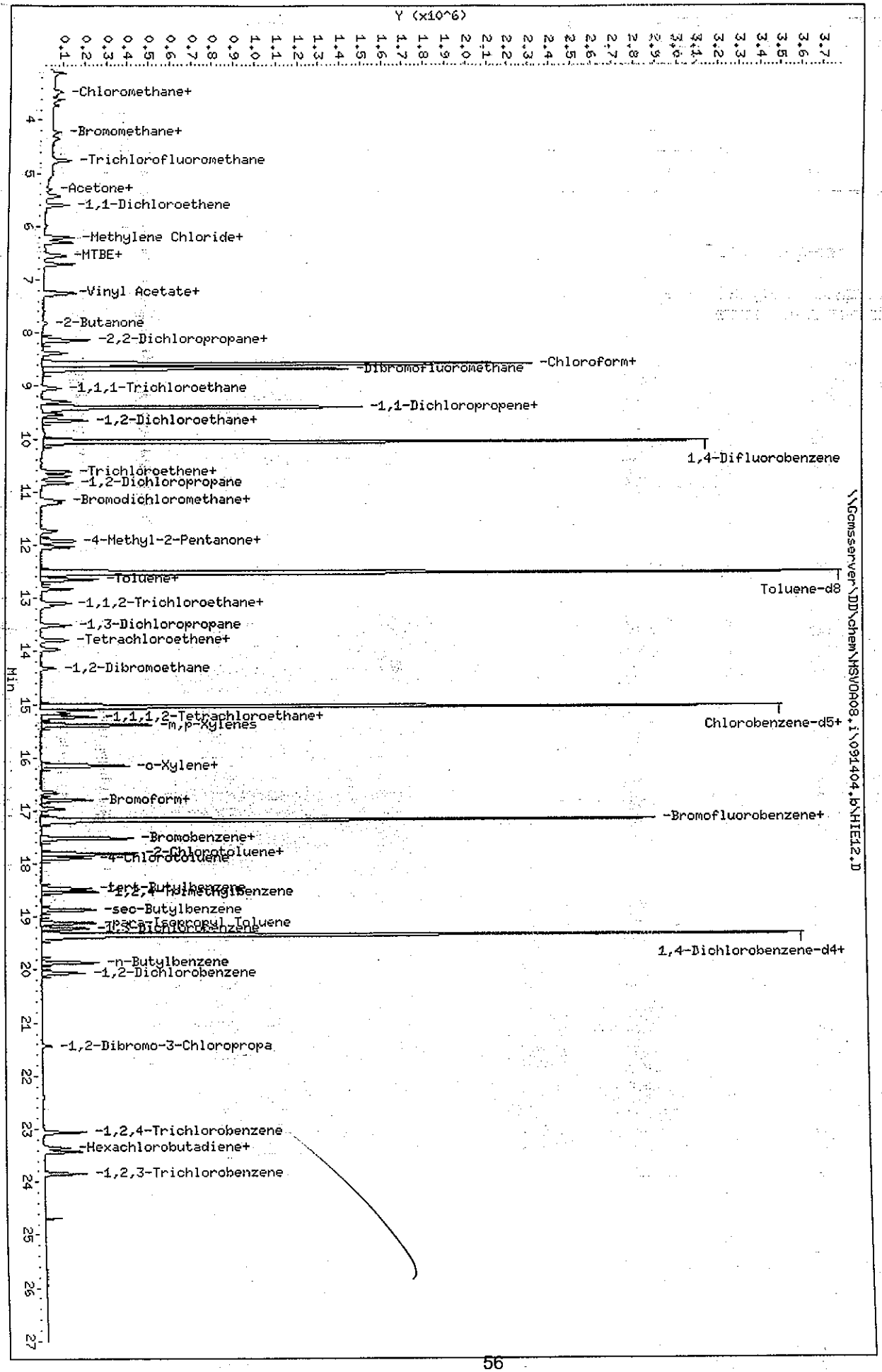
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,2,3-Trichlorobenzene	180	23.839	23.840	(1.235)	80968	5.00000	5.2980

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\091404.b\HIE12.D
Date : 14-SEP-2004 17:47
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.005/500,04WS1422E,0.01/500,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 18:23 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.002/100,04WS1422E,0.004/100,
Misc Info : 04WS1715A,0.001/100,10 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 18:23 Cal File: HIE13.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Freon 12	85	3.121	3.115	(0.364)	196486	10.0000	10.2608
	2 Chloromethane	50	3.466	3.460	(0.404)	188834	10.0000	10.0726
	3 Vinyl Chloride	62	3.614	3.598	(0.421)	131874	10.0000	10.2481
	4 Bromomethane	94	4.225	4.219	(0.492)	73992	10.0000	9.5482
	5 Chloroethane	64	4.343	4.338	(0.506)	84716	10.0000	10.2254
	6 Trichlorofluoromethane	101	4.757	4.762	(0.554)	225380	10.0000	10.1029
	7 Acetone	43	5.300	5.304	(0.617)	64777	10.0000	9.4282
	8 Freon 113	101	5.428	5.422	(0.632)	130726	10.0000	9.9942
	9 1,1-Dichloroethene	96	5.595	5.600	(0.652)	132957	10.0000	10.2507
	10 Methylene Chloride	84	6.207	6.211	(0.723)	170742	10.0000	10.1518
	11 Carbon Disulfide	76	6.295	6.300	(0.734)	504386	10.0000	10.0429
	12 MTBE	73	6.542	6.546	(0.762)	355914	10.0000	9.8732
	13 trans-1,2-Dichloroethene	96	6.710	6.704	(0.782)	146627	10.0000	9.9576
	14 Vinyl Acetate	43	7.242	7.236	(0.844)	399073	10.0000	9.6985
	15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	268576	10.0000	10.0149
	16 2-Butanone	43	7.814	7.808	(0.910)	91331	10.0000	10.1039
	17 2,2-Dichloropropane	77	8.139	8.134	(0.948)	195610	10.0000	10.2649
	18 cis-1,2-Dichloroethene	96	8.139	8.134	(0.948)	154008	10.0000	10.1711
	19 Chloroform	83	8.386	8.380	(0.977)	255673	10.0000	9.9424
*	20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2186649	50.0000	
	21 Bromochloromethane	128	8.583	8.577	(1.000)	73534	10.0000	10.0200
$	22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1320514	50.0000	49.6376

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

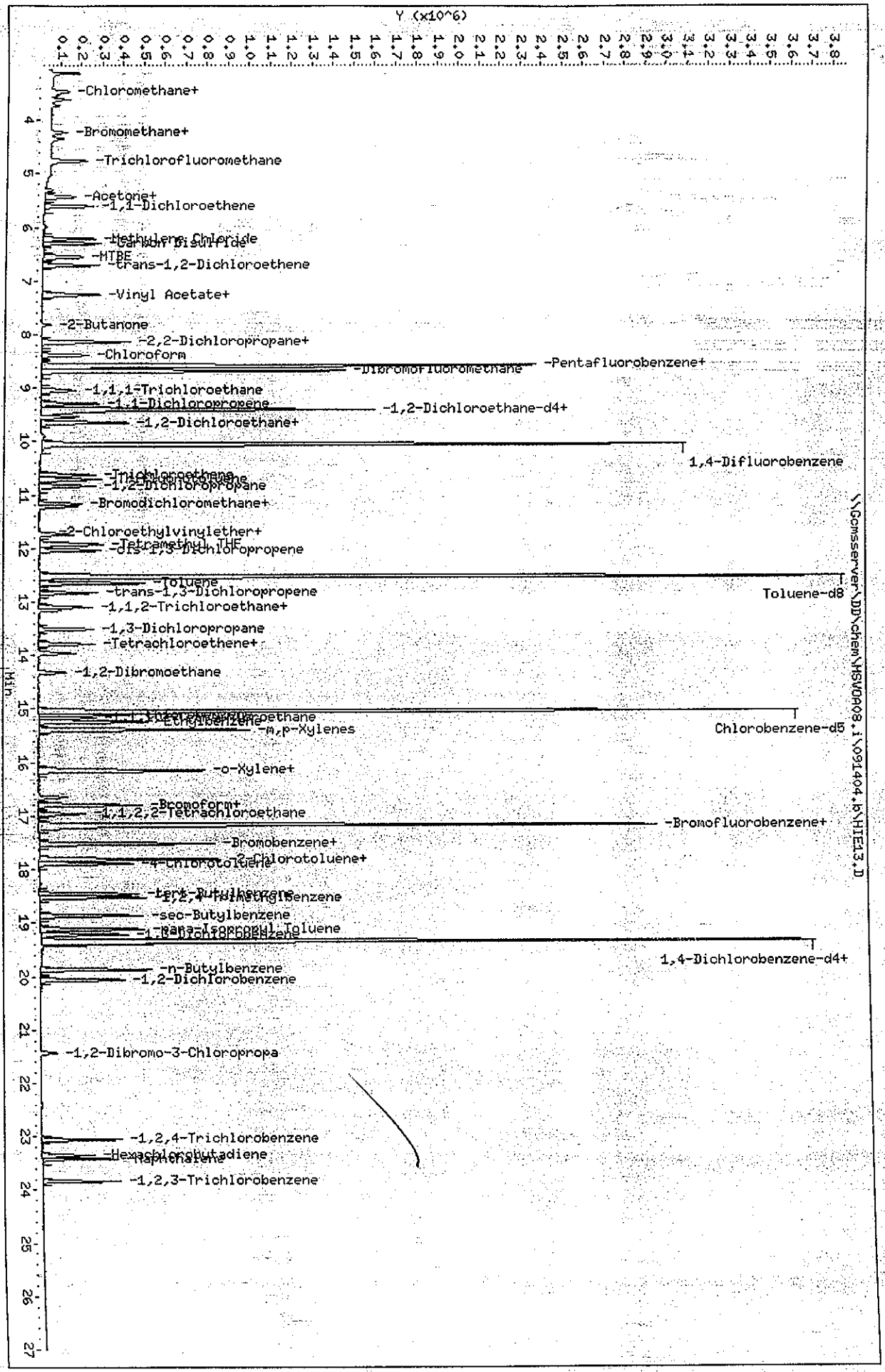
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.046	9.041	(1.054)	188735	10.0000	10.1012
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	198839	10.0000	10.0060
$	25 1,2-Dichloroethane-d4	65	9.401	9.396	(0.935)	1504922	50.0000	49 7813
	26 Carbon Tetrachloride	117	9.460	9.465	(0.941)	155101	10.0000	9.9888
	27 1,2-Dichloroethane	62	9.539	9.534	(0.949)	200509	10.0000	10.0197
	28 Benzene	78	9.648	9.642	(0.960)	556709	10.0000	9.8385
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	3789238	50.0000	
	30 Trichloroethene	95	10.624	10.618	(1.057)	141353	10.0000	10.0727
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	197104	10.0000	10.2521(A)
	32 1,2-Dichloropropane	63	10.831	10.835	(1.077)	144902	10.0000	9.7737
	33 Bromodichloromethane	83	11.166	11.160	(1.111)	194457	10.0000	9.8410
	34 Dibromomethane	93	11.215	11.210	(1.116)	111541	10.0000	9.8997
	35 2-Chloroethylvinylether	63	11.708	11.732	(1.165)	235	10.0000	9.9249
	36 4-Methyl-2-Pentanone	43	11.738	11.732	(1.168)	180033	10.0000	9.8981
	37 Tetramethyl THF	43	11.915	11.920	(1.185)	363306	10.0000	9.7942(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	234355	10.0000	9.7897
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3759606	50.0000	50.1704
	40 Toluene	92	12.645	12.649	(1.258)	322965	10.0000	10.1224
	41 trans-1,3-Dichloropropene	75	12.832	12.827	(1.277)	210584	10.0000	9.9006
	42 1,1,2-Trichloroethane	85	13.098	13.093	(1.303)	75593	10.0000	9.6262
	43 2-Hexanone	43	13.148	13.152	(0.874)	119457	10.0000	9.6224
	44 1,3-Dichloropropane	76	13.513	13.507	(0.898)	218994	10.0000	9.9887
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	118772	10.0000	10.3197
	46 Dibromochloromethane	129	13.956	13.961	(0.928)	142616	10.0000	10.1406
	47 1,2-Dibromoethane	107	14.321	14.315	(1.425)	144331	10.0000	9.9396
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	3064269	50.0000	
	49 Chlorobenzene	112	15.110	15.104	(1.005)	349561	10.0000	10.0548
	50 1,1,1,2-Tetrachloroethane	131	15.169	15.173	(1.009)	116782	10.0000	10.0970
	51 Ethylbenzene	91	15.238	15.232	(1.013)	607864	10.0000	10.0821
	52 m,p-Xylenes	106	15.386	15.390	(1.023)	445693	20.0000	20.7221
	53 o-Xylene	106	16.135	16.139	(1.073)	220112	10.0000	10.3348
	54 Styrene	104	16.165	16.159	(1.075)	375152	10.0000	10.1958
	55 Bromoform	173	16.648	16.652	(1.107)	98220	10.0000	9.4636
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	546640	10.0000	9.9434
	57 1,1,2,2-Tetrachloroethane	83	16.963	16.958	(0.877)	190482	10.0000	9.8712
$	58 Bromofluorobenzene	95	17.170	17.165	(0.888)	1700455	50.0000	49.7370
	59 1,2,3-Trichloropropane	110	17.220	17.224	(0.890)	46945	10.0000	9.7011
	60 Bromobenzene	156	17.515	17.510	(0.906)	136532	10.0000	10.0215
	61 Propylbenzene	91	17.525	17.520	(0.906)	715907	10.0000	10.0806
	62 2-Chlorotoluene	91	17.801	17.796	(0.920)	482584	10.0000	10.2532
	63 1,3,5-Trimethylbenzene	105	17.811	17.816	(0.921)	454792	10.0000	10.0602
	64 4-Chlorotoluene	91	17.890	17.885	(0.925)	424598	10.0000	9.6712
	65 tert-Butylbenzene	119	18.462	18.456	(0.955)	401527	10.0000	9.9571(M) LW 9-15-04
	66 1,2,4-Trimethylbenzene	105	18.521	18.525	(0.958)	461235	10.0000	9.9621
	67 sec-Butylbenzene	105	18.866	18.861	(0.976)	631035	10.0000	10.0641
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	488433	10.0000	10.0852
	69 1,3-Dichlorobenzene	146	19.211	19.216	(0.993)	260411	10.0000	10.0038
*	70 1,4-Dichlorobenzene-d4	152	19.339	19.334	(1.000)	1471822	50.0000	
	71 1,4-Dichlorobenzene	146	19.389	19.393	(1.003)	265064	10.0000	9.9652
	72 n-Butylbenzene	91	19.862	19.866	(1.027)	491028	10.0000	10.0705
	73 1,2-Dichlorobenzene	146	20.059	20.064	(1.037)	249144	10.0000	9.9727
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	31919	10.0000	9.7413
	75 1,2,4-Trichlorobenzene	180	23.056	23.061	(1.192)	154203	10.0000	9.7619
	76 Hexachlorobutadiene	225	23.352	23.357	(1.207)	64169	10.0000	10.1633

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.421	23.426	(1.211)	369790	10.0000	9.4442
78 1,2,3-Trichlorobenzene	180	23.845	23.840	(1.233)	153894	10.0000	9.8080

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.


Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Date : 14-SEP-2004 18:23
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.002/100,04WS1422E,0.004/100,
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32
Y (x10^6)
Min
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane
-Acetone+
-1,1-Dichloroethene
-Methylene Chloride
-Carbon Disulfide
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-2-Butanone
-2,2-Dichloropropane+
-Chloroform
-Dibromofluoromethane
-Pentafluorobenzene+
-1,1,1-Trichloroethane
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane+
1,4-Difluorobenzene
-Trichloroethene
-Dibromomethane
-1,2-Dichloropropane
-Bromodichloromethane+
-2-Chloroethylvinylether+
-Tetrahydro THF
-cis-1,3-Dichloropropene
-Toluene
-trans-1,3-Dichloropropene
Toluene-d8
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-Tetrachloroethene+
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane
-Ethylbenzene
-m,p-Xylenes
Chlorobenzene-d5
-o-Xylene+
-Bromoform+
-1,1,2,2-Tetrachloroethane
-Bromofluorobenzene+
-Bromobenzene+
-2-Chlorotoluene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
\\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 18:59 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.004/100,04WS1422E,0.008/100,
Misc Info : 04WS1715A,0.002/100,20 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 18:59 Cal File: HIE14.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.119	3.115	(0.363)	396112	20.0000	20.0854
2 Chloromethane	50	3.474	3.460	(0.405)	382331	20.0000	19.8022
3 Vinyl Chloride	62	3.612	3.598	(0.421)	274244	20.0000	20.6935
4 Bromomethane	94	4.223	4.219	(0.492)	163439	20.0000	20.4787
5 Chloroethane	64	4.342	4.338	(0.506)	170322	20.0000	19.9617
6 Trichlorofluoromethane	101	4.756	4.762	(0.554)	463855	20.0000	20.1895
7 Acetone	43	5.298	5.304	(0.617)	138198	20.0000	18.8205
8 Freon 113	101	5.426	5.422	(0.632)	255200	20.0000	18.9444
9 1,1-Dichloroethene	96	5.604	5.600	(0.653)	262501	20.0000	19.6509
10 Methylene Chloride	84	6.205	6.211	(0.723)	339195	20.0000	19.5824
11 Carbon Disulfide	76	6.294	6.300	(0.733)	1011322	20.0000	19.5522
12 MTBE	73	6.550	6.546	(0.763)	743684	20.0000	20.0315
13 trans-1,2-Dichloroethene	96	6.708	6.704	(0.782)	291034	20.0000	19.1910
14 Vinyl Acetate	43	7.240	7.236	(0.844)	830907	20.0000	19.6073
15 1,1-Dichloroethane	63	7.260	7.266	(0.846)	549440	20.0000	19.8936
16 2-Butanone	43	7.812	7.808	(0.910)	183864	20.0000	19.7506
17 2,2-Dichloropropane	77	8.137	8.134	(0.948)	380533	20.0000	19.3895
18 cis-1,2-Dichloroethene	96	8.137	8.134	(0.948)	308387	20.0000	19.7758
19 Chloroform	83	8.384	8.380	(0.977)	524798	20.0000	19.8157
* 20 Pentafluorobenzene	168	8.581	8.577	(1.000)	2251998	50.0000	
21 Bromochloromethane	128	8.581	8.577	(1.000)	148601	20.0000	19.6613
$ 22 Dibromofluoromethane	113	8.670	8.676	(1.010)	1363017	50.0000	49.7485

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.044	9.041	(1.054)	379024	20.0000	19.6970
	24 1,1-Dichloropropene	75	9.291	9.287	(0.924)	395612	20.0000	19.2989
$	25 1,2-Dichloroethane-d4	65	9.399	9.396	(0.935)	1557327	50.0000	49.9382
	26 Carbon Tetrachloride	117	9.459	9.465	(0.941)	313446	20.0000	19.5688
	27 1,2-Dichloroethane	62	9.537	9.534	(0.949)	409053	20.0000	19.8154
	28 Benzene	78	9.646	9.642	(0.960)	1118987	20.0000	19.1703
*	29 1,4-Difluorobenzene	114	10.050	10.046	(1.000)	3908873	50.0000	
	30 Trichloroethene	95	10.622	10.618	(1.057)	277097	20.0000	19.1415
$	31 Trifluorotoluene	146	10.711	10.707	(1.066)	388944	20.0000	19.6113(A)
	32 1,2-Dichloropropane	63	10.829	10.835	(1.077)	300948	20.0000	19.6779
	33 Bromodichloromethane	83	11.164	11.160	(1.111)	398111	20.0000	19.5308
	34 Dibromomethane	93	11.214	11.210	(1.116)	229942	20.0000	19.7838
	35 2-Chloroethylvinylether	63	11.746	11.732	(1.169)	467	20.0000	19.1195(M) LW 9-15-04
	36 4-Methyl-2-Pentanone	43	11.736	11.732	(1.168)	386754	20.0000	20.6128
	37 Tetramethyl THF	43	11.923	11.920	(1.186)	736855	20.0000	19.2567(A)
	38 cis-1,3-Dichloropropene	75	12.032	12.038	(1.197)	488227	20.0000	19.7705
$	39 Toluene-d8	98	12.515	12.521	(1.245)	3852146	50.0000	49.8320
	40 Toluene	92	12.643	12.649	(1.258)	644302	20.0000	19.5757
	41 trans-1,3-Dichloropropene	75	12.830	12.827	(1.277)	429212	20.0000	19.5619
	42 1,1,2-Trichloroethane	85	13.097	13.093	(1.303)	155492	20.0000	19.1948
	43 2-Hexanone	43	13.156	13.152	(0.875)	260385	20.0000	20.1532
	44 1,3-Dichloropropane	76	13.511	13.507	(0.898)	458747	20.0000	20.1049
	45 Tetrachloroethene	166	13.787	13.793	(0.917)	235135	20.0000	19.6302
	46 Dibromochloromethane	129	13.964	13.961	(0.929)	290685	20.0000	19.8597
	47 1,2-Dibromoethane	107	14.319	14.315	(1.425)	301038	20.0000	20.0971
*	48 Chlorobenzene-d5	117	15.039	15.045	(1.000)	3189145	50.0000	
	49 Chlorobenzene	112	15.108	15.104	(1.005)	727840	20.0000	20.1160
	50 1,1,1,2-Tetrachloroethane	131	15.167	15.173	(1.009)	236108	20.0000	19.6146
	51 Ethylbenzene	91	15.236	15.232	(1.013)	1225036	20.0000	19.5230
	52 m,p-Xylenes	106	15.384	15.390	(1.023)	887132	40.0000	39.6314
	53 o-Xylene	106	16.133	16.139	(1.073)	440771	20.0000	19.8850
	54 Styrene	104	16.163	16.159	(1.075)	765352	20.0000	19.9861
	55 Bromoform	173	16.656	16.652	(1.108)	204257	20.0000	18.9099
	56 Isopropylbenzene	105	16.794	16.790	(0.868)	1110458	20.0000	20.2083
	57 1,1,2,2-Tetrachloroethane	83	16.962	16.958	(0.877)	398729	20.0000	20.6722
$	58 Bromofluorobenzene	95	17.169	17.165	(0.888)	1720582	50.0000	50.3480
	59 1,2,3-Trichloropropane	110	17.228	17.224	(0.891)	96348	20.0000	20.6136
	60 Bromobenzene	156	17.514	17.510	(0.906)	270536	20.0000	19.8664
	61 Propylbenzene	91	17.524	17.520	(0.906)	1437438	20.0000	20.2495
	62 2-Chlorotoluene	91	17.800	17.796	(0.920)	935274	20.0000	19.8802
	63 1,3,5-Trimethylbenzene	105	17.819	17.816	(0.921)	909045	20.0000	20.0952
	64 4-Chlorotoluene	91	17.888	17.885	(0.925)	861881	20.0000	19.6402
	65 tert-Butylbenzene	119	18.460	18.456	(0.955)	827330	20.0000	20.5254
	66 1,2,4-Trimethylbenzene	105	18.519	18.539	(0.958)	922097	20.0000	19.9251
	67 sec-Butylbenzene	105	18.864	18.861	(0.976)	1236072	20.0000	19.7224
	68 para-Isopropyl Toluene	119	19.111	19.117	(0.988)	976244	20.0000	20.0427
	69 1,3-Dichlorobenzene	146	19.219	19.216	(0.994)	507382	20.0000	19.5000
*	70 1,4-Dichlorobenzene-d4	152	19.338	19.334	(1.000)	1471168	50.0000	
	71 1,4-Dichlorobenzene	146	19.397	19.393	(1.003)	522713	20.0000	19.6604
	72 n-Butylbenzene	91	19.860	19.866	(1.027)	983723	20.0000	20.1842
	73 1,2-Dichlorobenzene	146	20.057	20.064	(1.037)	501873	20.0000	20.0979
	74 1,2-Dibromo-3-Chloropropane	75	21.428	21.434	(1.108)	66994	20.0000	20.4550
	75 1,2,4-Trichlorobenzene	180	23.065	23.061	(1.193)	320062	20.0000	20.2707
	76 Hexachlorobutadiene	225	23.360	23.357	(1.208)	126583	20.0000	20.0577

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

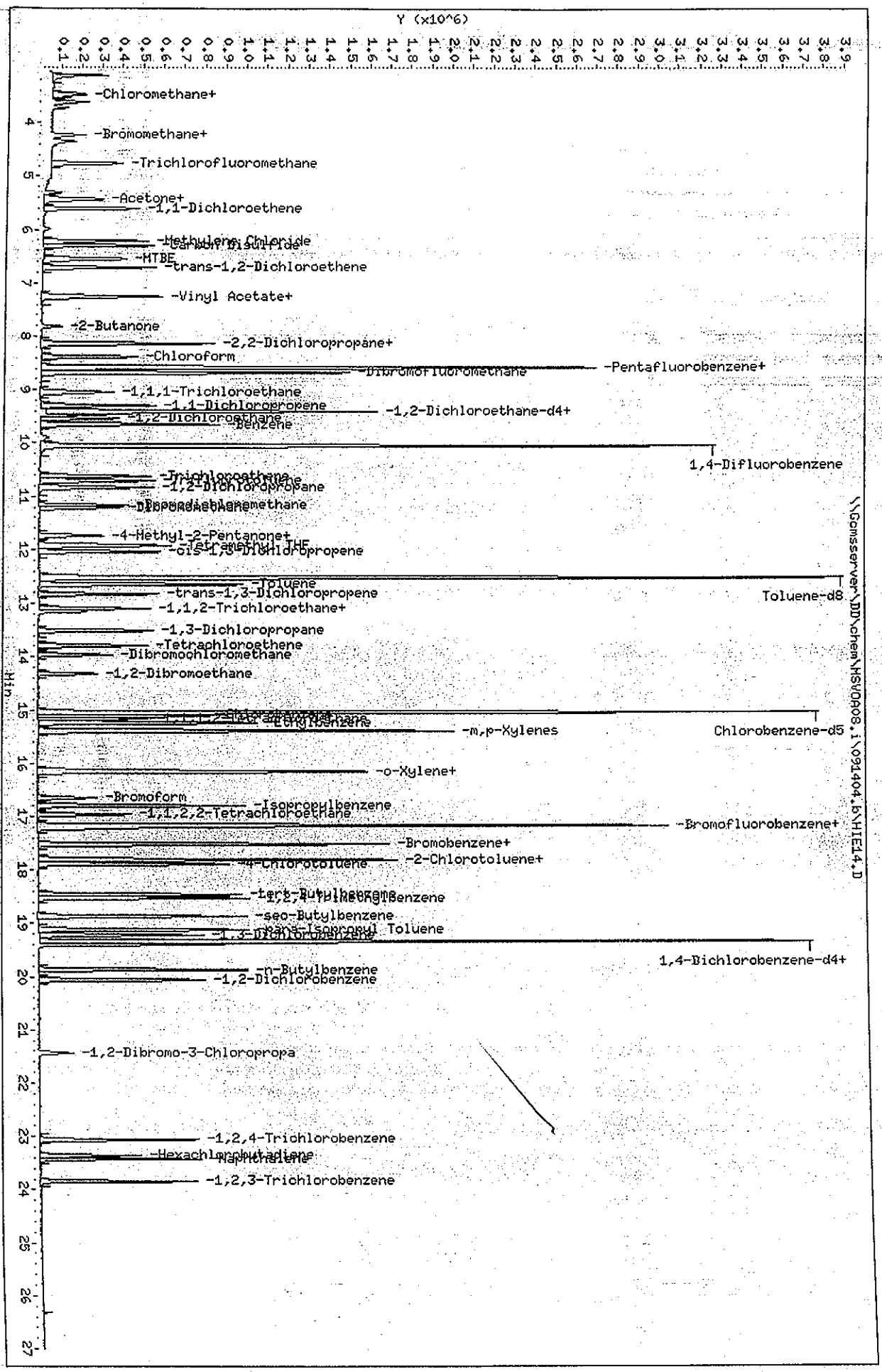
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.419	23.426	(1.211)	809831	20.0000	20.6918
78 1,2,3-Trichlorobenzene	180	23.843	23.840	(1.233)	315543	20.0000	20.1192

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVDA08.i\091404.b\HIE14.D
Date : 14-SEP-2004 18:59
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.004/100,04WS1422E,0.008/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVDA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 19:35 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.01/100,04WS1422E,0.02/100,
Misc Info : 04WS1715A,0.005/100,50 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 19:35 Cal File: HIE15.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.121	3.115	(0.364)	990709	50.0000	48.2368
2 Chloromethane	50	3.466	3.460	(0.404)	978524	50.0000	48.6647
3 Vinyl Chloride	62	3.604	3.598	(0.420)	655281	50.0000	47.4781
4 Bromomethane	94	4.225	4.219	(0.492)	456379	50.0000	54.9088
5 Chloroethane	64	4.343	4.338	(0.506)	437608	50.0000	49.2473
6 Trichlorofluoromethane	101	4.757	4.762	(0.554)	1186548	50.0000	49.5905
7 Acetone	43	5.300	5.304	(0.617)	349725	50.0000	49.2399
8 Freon 113	101	5.428	5.422	(0.632)	671175	50.0000	47.8416
9 1,1-Dichloroethene	96	5.595	5.600	(0.652)	679163	50.0000	48.8198
10 Methylene Chloride	84	6.207	6.211	(0.723)	876855	50.0000	48.6086
11 Carbon Disulfide	76	6.296	6.300	(0.734)	2632995	50.0000	48.8795
12 MTBE	73	6.542	6.546	(0.762)	1908983	50.0000	49.3739
13 trans-1,2-Dichloroethene	96	6.700	6.704	(0.781)	762713	50.0000	48.2930
14 Vinyl Acetate	43	7.232	7.236	(0.843)	2087913	50.0000	47.3095
15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	1407119	50.0000	48.9208
16 2-Butanone	43	7.814	7.808	(0.910)	460102	50.0000	47.4578
17 2,2-Dichloropropane	77	8.129	8.134	(0.947)	983862	50.0000	48.1368
18 cis-1,2-Dichloroethene	96	8.139	8.134	(0.948)	802384	50.0000	49.4072
19 Chloroform	83	8.386	8.380	(0.977)	1360766	50.0000	49.3368
* 20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2345303	50.0000	
21 Bromochloromethane	128	8.583	8.577	(1.000)	397432	50.0000	50.4922
$ 22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1416320	50.0000	49.6374

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.046	9.041	(1.054)	997933	50.0000	49.7970
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	1033655	50.0000	48.7661
$	25 1,2-Dichloroethane-d4	65	9.401	9.396	(0.935)	1585412	50.0000	49.1670
	26 Carbon Tetrachloride	117	9.460	9.465	(0.941)	827115	50.0000	49.9397
	27 1,2-Dichloroethane	62	9.539	9.534	(0.949)	1070718	50.0000	50.1624
	28 Benzene	78	9.648	9.642	(0.960)	2923133	50.0000	48.4319
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	4041778	50.0000	
	30 Trichloroethene	95	10.614	10.618	(1.056)	736158	50.0000	49.1807
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	1025849	50.0000	50.0244(A)
	32 1,2-Dichloropropane	63	10.831	10.835	(1.077)	794711	50.0000	50.2547
	33 Bromodichloromethane	83	11.166	11.160	(1.111)	1039827	50.0000	49.3353
	34 Dibromomethane	93	11.215	11.210	(1.116)	595964	50.0000	49.5896
	35 2-Chloroethylvinylether	63	11.728	11.732	(1.167)	1322	50.0000	52.3445
	36 4-Methyl-2-Pentanone	43	11.728	11.732	(1.167)	927757	50.0000	47.8208
	37 Tetramethyl THF	43	11.915	11.920	(1.185)	1861948	50.0000	47.0594(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	1259425	50.0000	49.3229
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3940984	50.0000	49.3048
	40 Toluene	92	12.645	12.649	(1.258)	1660133	50.0000	48.7810
	41 trans-1,3-Dichloropropene	75	12.832	12.827	(1.277)	1147068	50.0000	50.5600
	42 1,1,2-Trichloroethane	85	13.099	13.093	(1.303)	422069	50.0000	50.3894
	43 2-Hexanone	43	13.148	13.152	(0.874)	646176	50.0000	48.4804
	44 1,3-Dichloropropane	76	13.513	13.507	(0.898)	1180421	50.0000	50.1480
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	622844	50.0000	50.4050
	46 Dibromochloromethane	129	13.956	13.961	(0.928)	763461	50.0000	50.5621
	47 1,2-Dibromoethane	107	14.321	14.315	(1.425)	768417	50.0000	49.6122
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	3289931	50.0000	
	49 Chlorobenzene	112	15.110	15.104	(1.005)	1824468	50.0000	48.8798
	50 1,1,1,2-Tetrachloroethane	131	15.169	15.173	(1.009)	624737	50.0000	50.3100
	51 Ethylbenzene	91	15.238	15.232	(1.013)	3226312	50.0000	49.8417
	52 m,p-Xylenes	106	15.386	15.390	(1.023)	2301016	100.000	99.6456
	53 o-Xylene	106	16.135	16.139	(1.073)	1128408	50.0000	49.3476
	54 Styrene	104	16.155	16.159	(1.074)	1962408	50.0000	49.6756
	55 Bromoform	173	16.648	16.652	(1.107)	530545	50.0000	47.6126
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	2890645	50.0000	49.9759
	57 1,1,2,2-Tetrachloroethane	83	16.963	16.958	(0.877)	1015857	50.0000	50.0357
$	58 Bromofluorobenzene	95	17.170	17.165	(0.888)	1796554	50.0000	49.9443
	59 1,2,3-Trichloropropane	110	17.220	17.224	(0.890)	247457	50.0000	51.2473
	60 Bromobenzene	156	17.516	17.510	(0.906)	724922	50.0000	50.5736
	61 Propylbenzene	91	17.525	17.520	(0.906)	3731119	50.0000	49.9349
	62 2-Chlorotoluene	91	17.801	17.796	(0.920)	2424277	50.0000	48.9556
	63 1,3,5-Trimethylbenzene	105	17.811	17.816	(0.921)	2384823	50.0000	50.1396
	64 4-Chlorotoluene	91	17.890	17.885	(0.925)	2334726	50.0000	50.5444
	65 tert-Butylbenzene	119	18.462	18.456	(0.955)	2103732	50.0000	49.5840
	66 1,2,4-Trimethylbenzene	105	18.521	18.525	(0.958)	2419834	50.0000	49.6762
	67 sec-Butylbenzene	105	18.866	18.861	(0.976)	3246177	50.0000	49.2070
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	2570823	50.0000	50.4529
	69 1,3-Dichlorobenzene	146	19.211	19.216	(0.993)	1348490	50.0000	49.2363
*	70 1,4-Dichlorobenzene-d4	152	19.340	19.334	(1.000)	1548545	50.0000	
	71 1,4-Dichlorobenzene	146	19.399	19.393	(1.003)	1406598	50.0000	50.2618
	72 n-Butylbenzene	91	19.862	19.866	(1.027)	2579537	50.0000	50.2827
	73 1,2-Dichlorobenzene	146	20.059	20.064	(1.037)	1299497	50.0000	49.4392
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	166077	50.0000	48.1738
	75 1,2,4-Trichlorobenzene	180	23.057	23.061	(1.192)	836658	50.0000	50.3410
	76 Hexachlorobutadiene	225	23.352	23.357	(1.207)	330626	50.0000	49.7716

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

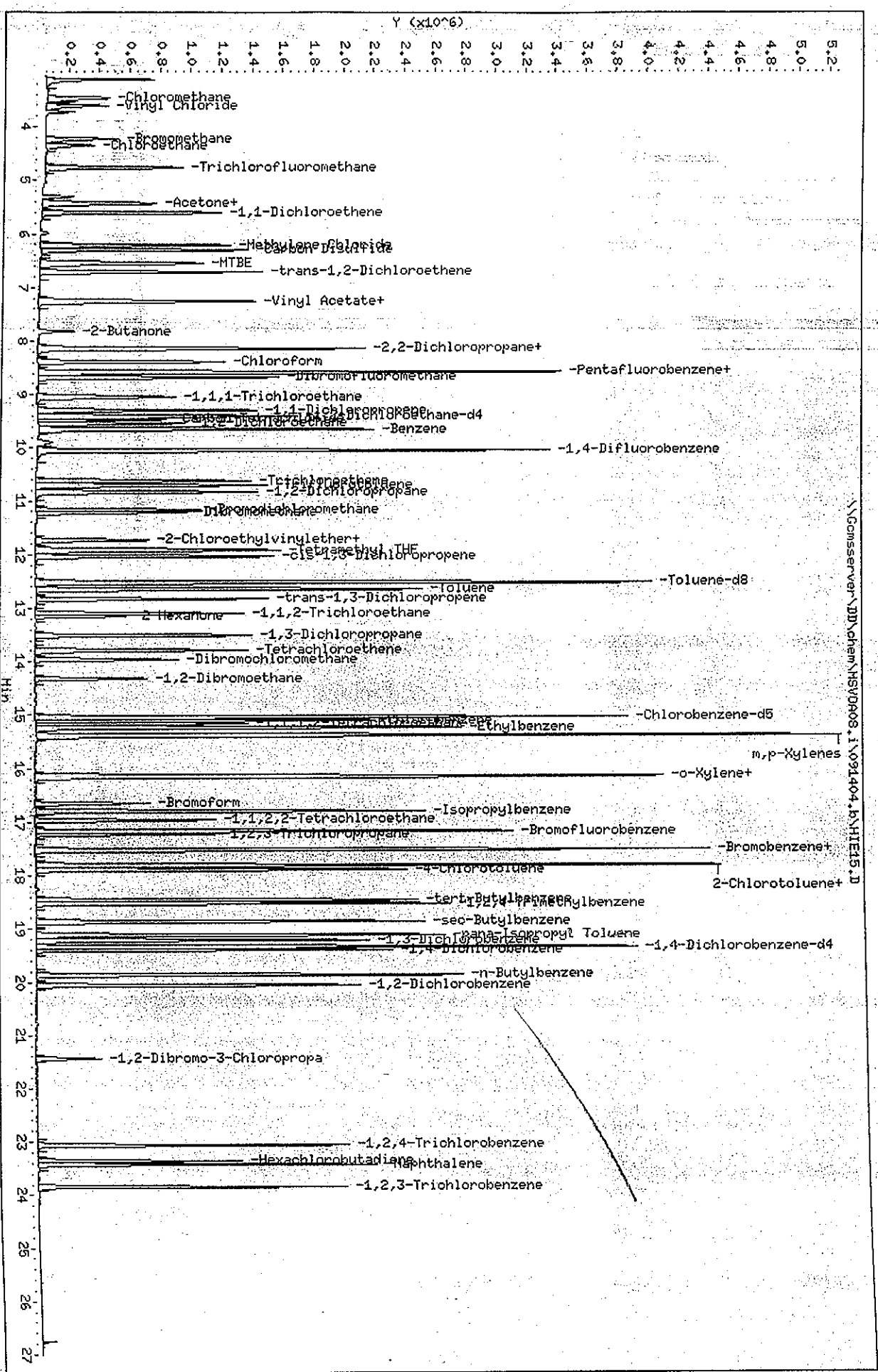
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.421	23.426	(1.211)	2223065	50.0000	53.9630
78 1,2,3-Trichlorobenzene	180	23.845	23.840	(1.233)	828872	50.0000	50.2086

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Date : 14-SEP-2004 19:35
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.01/100,04WS1422E,0.02/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 20:12 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.015/100,04WS1422E,0.03/100,
Misc Info : 04WS1715A,0.0075/100,75 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:12 Cal File: HIE16.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.116	3.115	(0.363)	1552751	75.0000	74.8856
2 Chloromethane	50	3.461	3.460	(0.404)	1520054	75.0000	74.8800
3 Vinyl Chloride	62	3.599	3.598	(0.420)	1011683	75.0000	72.6063
4 Bromomethane	94	4.220	4.219	(0.492)	768323	75.0000	91.5639
5 Chloroethane	64	4.339	4.338	(0.506)	687630	75.0000	76.6506
6 Trichlorofluoromethane	101	4.763	4.762	(0.555)	1823802	75.0000	75.5013
7 Acetone	43	5.305	5.304	(0.618)	541083	75.0000	75.6953
8 Freon 113	101	5.423	5.422	(0.632)	1051961	75.0000	74.2734
9 1,1-Dichloroethene	96	5.601	5.600	(0.653)	1044453	75.0000	74.3661
10 Methylene Chloride	84	6.212	6.211	(0.724)	1304311	75.0000	71.6194
11 Carbon Disulfide	76	6.301	6.300	(0.735)	3992228	75.0000	73.4101
12 MTBE	73	6.537	6.546	(0.762)	2859431	75.0000	73.2554
13 trans-1,2-Dichloroethene	96	6.705	6.704	(0.782)	1144244	75.0000	71.7638
14 Vinyl Acetate	43	7.237	7.236	(0.844)	3144368	75.0000	70.5721
15 1,1-Dichloroethane	63	7.267	7.266	(0.847)	2099454	75.0000	72.2991
16 2-Butanone	43	7.809	7.808	(0.910)	698629	75.0000	71.3779
17 2,2-Dichloropropane	77	8.135	8.134	(0.948)	1497692	75.0000	72.5822
18 cis-1,2-Dichloroethene	96	8.135	8.134	(0.948)	1213478	75.0000	74.0123
19 Chloroform	83	8.381	8.380	(0.977)	2016692	75.0000	72.4254
* 20 Pentafluorobenzene	168	8.578	8.577	(1.000)	2367746	50.0000	
21 Bromochloromethane	128	8.578	8.577	(1.000)	589895	75.0000	74.2335
$ 22 Dibromofluoromethane	113	8.677	8.676	(1.011)	1443395	50.0000	50.1068

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.042	9.041	(1.054)	1522299	75.0000	75.2430
	24 1,1-Dichloropropene	75	9.288	9.287	(0.924)	1580340	75.0000	73.1088
$	25 1,2-Dichloroethane-d4	65	9.397	9.396	(0.935)	1622550	50.0000	49.3409
	26 Carbon Tetrachloride	117	9.456	9.465	(0.941)	1291566	75.0000	76.4669
	27 1,2-Dichloroethane	62	9.535	9.534	(0.949)	1590185	75.0000	73.0512
	28 Benzene	78	9.643	9.642	(0.960)	4424564	75.0000	71.8837
*	29 1,4-Difluorobenzene	114	10.047	10.046	(1.000)	4121884	50.0000	
	30 Trichloroethene	95	10.619	10.618	(1.057)	1111215	75.0000	72.7945
$	31 Trifluorotoluene	146	10.708	10.707	(1.066)	1563699	75.0000	74.7701(A)
	32 1,2-Dichloropropane	63	10.836	10.835	(1.079)	1175261	75.0000	72.8750
	33 Bromodichloromethane	83	11.161	11.160	(1.111)	1573269	75.0000	73.1942
	34 Dibromomethane	93	11.211	11.210	(1.116)	888485	75.0000	72.4933
	35 2-Chloroethylvinylether	63	11.733	11.732	(1.168)	2123	75.0000	82.4264(M) LW 9-15-04
	36 4-Methyl-2-Pentanone	43	11.733	11.732	(1.168)	1414532	75.0000	71.4944
	37 Tetramethyl THF	43	11.921	11.920	(1.186)	2799439	75.0000	69.3788(A)
	38 cis-1,3-Dichloropropene	75	12.039	12.038	(1.198)	1910826	75.0000	73.3795
$	39 Toluene-d8	98	12.522	12.521	(1.246)	4069672	50.0000	49.9253
	40 Toluene	92	12.650	12.649	(1.259)	2543103	75.0000	73.2738
	41 trans-1,3-Dichloropropene	75	12.828	12.827	(1.277)	1720026	75.0000	74.3412
	42 1,1,2-Trichloroethane	85	13.094	13.093	(1.303)	631920	75.0000	73.9767
	43 2-Hexanone	43	13.153	13.152	(0.875)	985818	75.0000	72.6135
	44 1,3-Dichloropropane	76	13.508	13.507	(0.898)	1773804	75.0000	73.9823
	45 Tetrachloroethene	166	13.794	13.793	(0.917)	956128	75.0000	75.9655
	46 Dibromochloromethane	129	13.961	13.961	(0.929)	1159177	75.0000	75.3691
	47 1,2-Dibromoethane	107	14.316	14.315	(1.425)	1153260	75.0000	73.0122
*	48 Chlorobenzene-d5	117	15.036	15.045	(1.000)	3351054	50.0000	
	49 Chlorobenzene	112	15.105	15.104	(1.005)	2768005	75.0000	72.8057
	50 1,1,1,2-Tetrachloroethane	131	15.174	15.173	(1.009)	942430	75.0000	74.5094
	51 Ethylbenzene	91	15.233	15.232	(1.013)	4925564	75.0000	74.7047
	52 m,p-Xylenes	106	15.391	15.390	(1.024)	3426015	150.000	145.6577
	53 o-Xylene	106	16.140	16.139	(1.073)	1666501	75.0000	71.5502
	54 Styrene	104	16.160	16.159	(1.075)	2899733	75.0000	72.0641
	55 Bromoform	173	16.653	16.652	(1.108)	810410	75.0000	71.4019
	56 Isopropylbenzene	105	16.791	16.790	(0.868)	4383516	75.0000	72.6016
	57 1,1,2,2-Tetrachloroethane	83	16.959	16.958	(0.877)	1547603	75.0000	73.0239
$	58 Bromofluorobenzene	95	17.166	17.165	(0.888)	1885389	50.0000	50.2116
	59 1,2,3-Trichloropropane	110	17.225	17.224	(0.891)	367355	75.0000	73.1595
	60 Bromobenzene	156	17.511	17.510	(0.906)	1081364	75.0000	72.2707
	61 Propylbenzene	91	17.521	17.520	(0.906)	5635910	75.0000	72.2582
	62 2-Chlorotoluene	91	17.797	17.796	(0.920)	3700679	75.0000	71.5912
	63 1,3,5-Trimethylbenzene	105	17.817	17.816	(0.921)	3638767	75.0000	73.2887
	64 4-Chlorotoluene	91	17.886	17.885	(0.925)	3573003	75.0000	74.1017
	65 tert-Butylbenzene	119	18.457	18.456	(0.955)	3307833	75.0000	74.6884
	66 1,2,4-Trimethylbenzene	105	18.526	18.525	(0.958)	3733847	75.0000	73.4306
	67 sec-Butylbenzene	105	18.862	18.861	(0.976)	5011324	75.0000	72.7721
	68 para-Isopropyl Toluene	119	19.108	19.117	(0.988)	3924839	75.0000	73.7893
	69 1,3-Dichlorobenzene	146	19.217	19.216	(0.994)	2051112	75.0000	71.7440
*	70 1,4-Dichlorobenzene-d4	152	19.335	19.334	(1.000)	1616464	50.0000	
	71 1,4-Dichlorobenzene	146	19.394	19.393	(1.003)	2142852	75.0000	73.3530
	72 n-Butylbenzene	91	19.867	19.866	(1.028)	3954181	75.0000	73.8400
	73 1,2-Dichlorobenzene	146	20.064	20.064	(1.038)	1998476	75.0000	72.8371
	74 1,2-Dibromo-3-Chloropropane	75	21.435	21.434	(1.109)	255706	75.0000	71.0560
	75 1,2,4-Trichlorobenzene	180	23.062	23.061	(1.193)	1279488	75.0000	73.7510
	76 Hexachlorobutadiene	225	23.357	23.357	(1.208)	527219	75.0000	76.0315

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

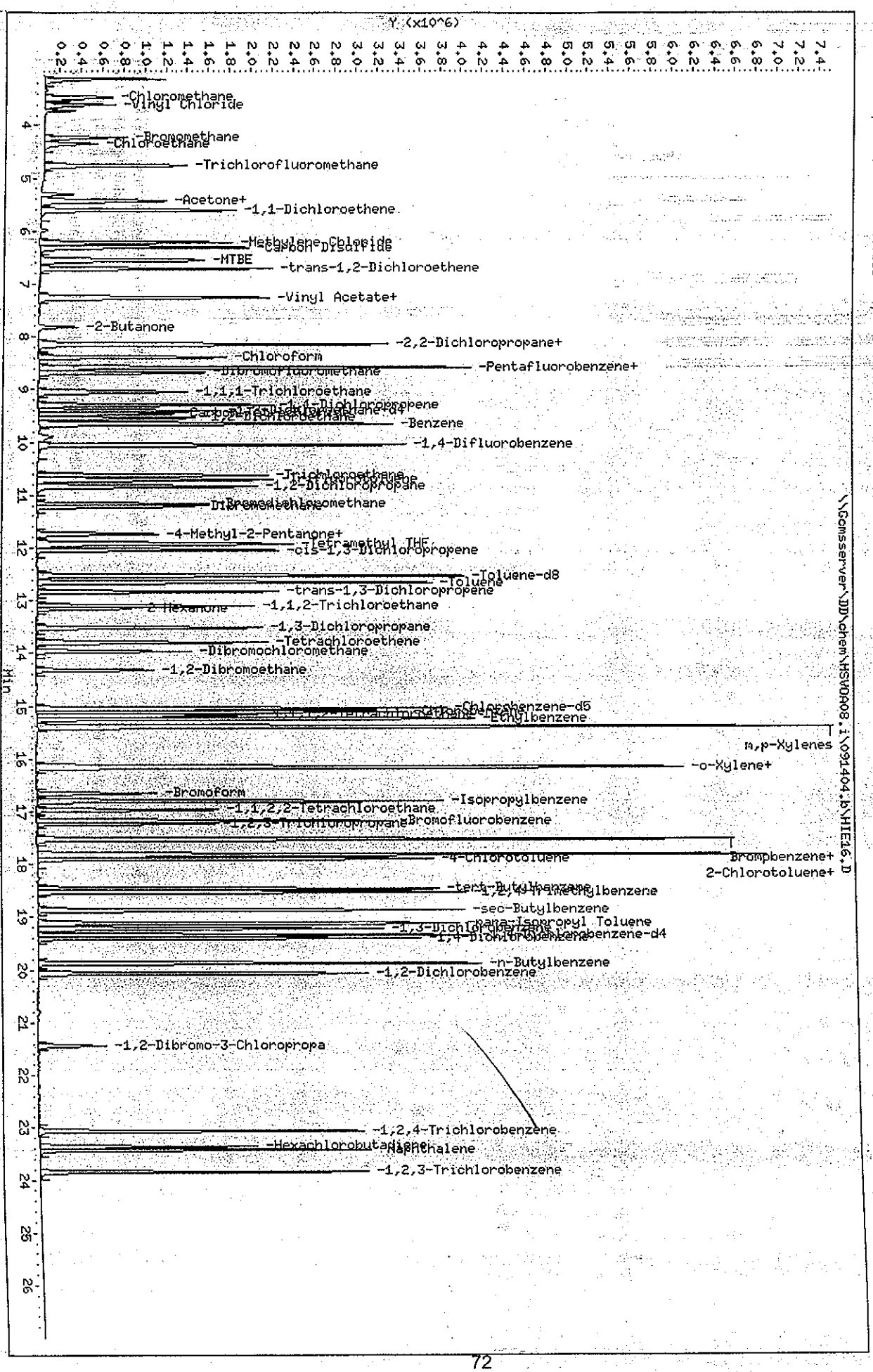
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.427	23.426	(1.212)	3336138	75.0000	77.5792
78 1,2,3-Trichlorobenzene	180	23.841	23.840	(1.233)	1280863	75.0000	74.3279

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Date : 14-SEP-2004 20:12
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0,015/100,04WS1422E,0,03/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 20:48 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.02/100,04WS1422E,0.04/100,
Misc Info : 04WS1715A,0.01/100,100 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.115	3.115	(0.363)	2114691	100.000	99.4254
2 Chloromethane	50	3.460	3.460	(0.403)	2018208	100.000	96.9229
3 Vinyl Chloride	62	3.598	3.598	(0.420)	1352181	100.000	94.6060
4 Bromomethane	94	4.219	4.219	(0.492)	1081718	100.000	125.6749
5 Chloroethane	64	4.338	4.338	(0.506)	905246	100.000	98.3743
6 Trichlorofluoromethane	101	4.762	4.762	(0.555)	2508285	100.000	101.2297
7 Acetone	43	5.304	5.304	(0.618)	606653	100.000	82.7780
8 Freon 113	101	5.422	5.422	(0.632)	1443210	100.000	99.3384
9 1,1-Dichloroethene	96	5.600	5.600	(0.653)	1427128	100.000	99.0611
10 Methylene Chloride	84	6.211	6.211	(0.724)	1802859	100.000	96.5084
11 Carbon Disulfide	76	6.300	6.300	(0.734)	5564511	100.000	99.7519
12 MTBE	73	6.546	6.546	(0.763)	4014807	100.000	100.2717
13 trans-1,2-Dichloroethene	96	6.704	6.704	(0.782)	1611304	100.000	98.5186
14 Vinyl Acetate	43	7.236	7.236	(0.844)	4310445	100.000	94.3139
15 1,1-Dichloroethane	63	7.266	7.266	(0.847)	2870916	100.000	96.3832
16 2-Butanone	43	7.808	7.808	(0.910)	885769	100.000	88.2250
17 2,2-Dichloropropane	77	8.134	8.134	(0.948)	2066267	100.000	97.6220
18 cis-1,2-Dichloroethene	96	8.134	8.134	(0.948)	1655866	100.000	98.4581
19 Chloroform	83	8.380	8.380	(0.977)	2829980	100.000	99.0806
* 20 Pentafluorobenzene	168	8.577	8.577	(1.000)	2428741	50.0000	
21 Bromochloromethane	128	8.577	8.577	(1.000)	821609	100.000	100.7962
$ 22 Dibromofluoromethane	113	8.676	8.676	(1.011)	1489781	50.0000	50.4182

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.042	9.041	(1.054)	2121573	100.000	102.2299
	24 1,1-Dichloropropene	75	9.287	9.287	(0.924)	2205880	100.000	98.8491
$	25 1,2-Dichloroethane-d4	65	9.396	9.396	(0.935)	1719220	50.0000	50.6421
	26 Carbon Tetrachloride	117	9.465	9.465	(0.942)	1789444	100.000	102.6236
	27 1,2-Dichloroethane	62	9.534	9.534	(0.949)	2239491	100.000	99.6555
	28 Benzene	78	9.642	9.642	(0.960)	6087936	100.000	95.8080
*	29 1,4-Difluorobenzene	114	10.046	10.046	(1.000)	4255238	50.0000	
	30 Trichloroethene	95	10.618	10.618	(1.057)	1543779	100.000	97.9621
$	31 Trifluorotoluene	146	10.707	10.707	(1.066)	2196068	100.000	101.7168(A)
	32 1,2-Dichloropropane	63	10.835	10.835	(1.079)	1626999	100.000	97.7245
	33 Bromodichloromethane	83	11.160	11.160	(1.111)	2187263	100.000	98.5704
	34 Dibromomethane	93	11.210	11.210	(1.116)	1247510	100.000	98.5970
	35 2-Chloroethylvinylether	63	11.732	11.732	(1.168)	2408	100.000	90.5617
	36 4-Methyl-2-Pentanone	43	11.732	11.732	(1.168)	1940712	100.000	95.0151
	37 Tetramethyl THF	43	11.920	11.920	(1.186)	3869552	100.000	92.8941(A)
	33 cis-1,3-Dichloropropene	75	12.038	12.038	(1.198)	2630409	100.000	97.8473
$	39 Toluene-d8	98	12.521	12.521	(1.246)	4202158	50.0000	49.9351
	40 Toluene	92	12.649	12.649	(1.259)	3488995	100.000	97.3772
	41 trans-1,3-Dichloropropene	75	12.827	12.827	(1.277)	2377788	100.000	99.5497
	42 1,1,2-Trichloroethane	85	13.093	13.093	(1.303)	879163	100.000	99.6951
	43 2-Hexanone	43	13.152	13.152	(0.874)	1343624	100.000	93.7038
	44 1,3-Dichloropropane	76	13.507	13.507	(0.898)	2420637	100.000	95.5896
	45 Tetrachloroethene	166	13.793	13.793	(0.917)	1321845	100.000	99.4350
	46 Dibromochloromethane	129	13.961	13.961	(0.928)	1627485	100.000	100.1888
	47 1,2-Dibromoethane	107	14.315	14.315	(1.425)	1606669	100.000	98.5295
*	48 Chlorobenzene-d5	117	15.045	15.045	(1.000)	3539344	50.0000	
	49 Chlorobenzene	112	15.104	15.104	(1.004)	3884902	100.000	96.7470
	50 1,1,1,2-Tetrachloroethane	131	15.173	15.173	(1.009)	1344848	100.000	100.6686
	51 Ethylbenzene	91	15.232	15.232	(1.012)	6827727	100.000	98.0453
	52 m,p-Xylenes	106	15.390	15.390	(1.023)	4698520	200.000	189.1315
	53 o-Xylene	106	16.139	16.139	(1.073)	2314609	100.000	94.0896
	54 Styrene	104	16.159	16.159	(1.074)	4032525	100.000	94.8848
	55 Bromoform	173	16.652	16.652	(1.107)	1149803	100.000	95.9152
	56 Isopropylbenzene	105	16.790	16.790	(0.868)	6181294	100.000	97.9474
	57 1,1,2,2-Tetrachloroethane	83	16.958	16.958	(0.877)	2163675	100.000	97.6759
$	58 Bromofluorobenzene	95	17.165	17.165	(0.888)	1939411	50.0000	49.4155
	59 1,2,3-Trichloropropane	110	17.224	17.224	(0.891)	526712	100.000	100.6021
	60 Bromobenzene	156	17.510	17.510	(0.906)	1517411	100.000	97.0249
	61 Propylbenzene	91	17.520	17.520	(0.906)	7827467	100.000	96.0139
	62 2-Chlorotoluene	91	17.796	17.796	(0.920)	5131264	100.000	94.9712
	63 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.921)	5033692	100.000	97.0010
	64 4-Chlorotoluene	91	17.885	17.885	(0.925)	4898256	100.000	97.1910
	65 tert-Butylbenzene	119	18.456	18.456	(0.955)	4574224	100.000	98.8136
	66 1,2,4-Trimethylbenzene	105	18.525	18.525	(0.958)	5143406	100.000	96.7745
	67 sec-Butylbenzene	105	18.861	18.861	(0.976)	6991071	100.000	97.1283
	68 para-Isopropyl Toluene	119	19.117	19.117	(0.989)	5489584	100.000	98.7417
	69 1,3-Dichlorobenzene	146	19.216	19.216	(0.994)	2920820	100.000	97.7441
*	70 1,4-Dichlorobenzene-d4	152	19.334	19.334	(1.000)	1689571	50.0000	
	71 1,4-Dichlorobenzene	146	19.393	19.393	(1.003)	2964661	100.000	97.0936
	72 n-Butylbenzene	91	19.866	19.866	(1.028)	5497890	100.000	98.2247
	73 1,2-Dichlorobenzene	146	20.064	20.064	(1.038)	2807709	100.000	97.9029
	74 1,2-Dibromo-3-Chloropropane	75	21.434	21.434	(1.109)	359880	100.000	95.6769
	75 1,2,4-Trichlorobenzene	180	23.061	23.061	(1.193)	1817244	100.000	100.2154
	76 Hexachlorobutadiene	225	23.357	23.357	(1.208)	752001	100.000	103.7553

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

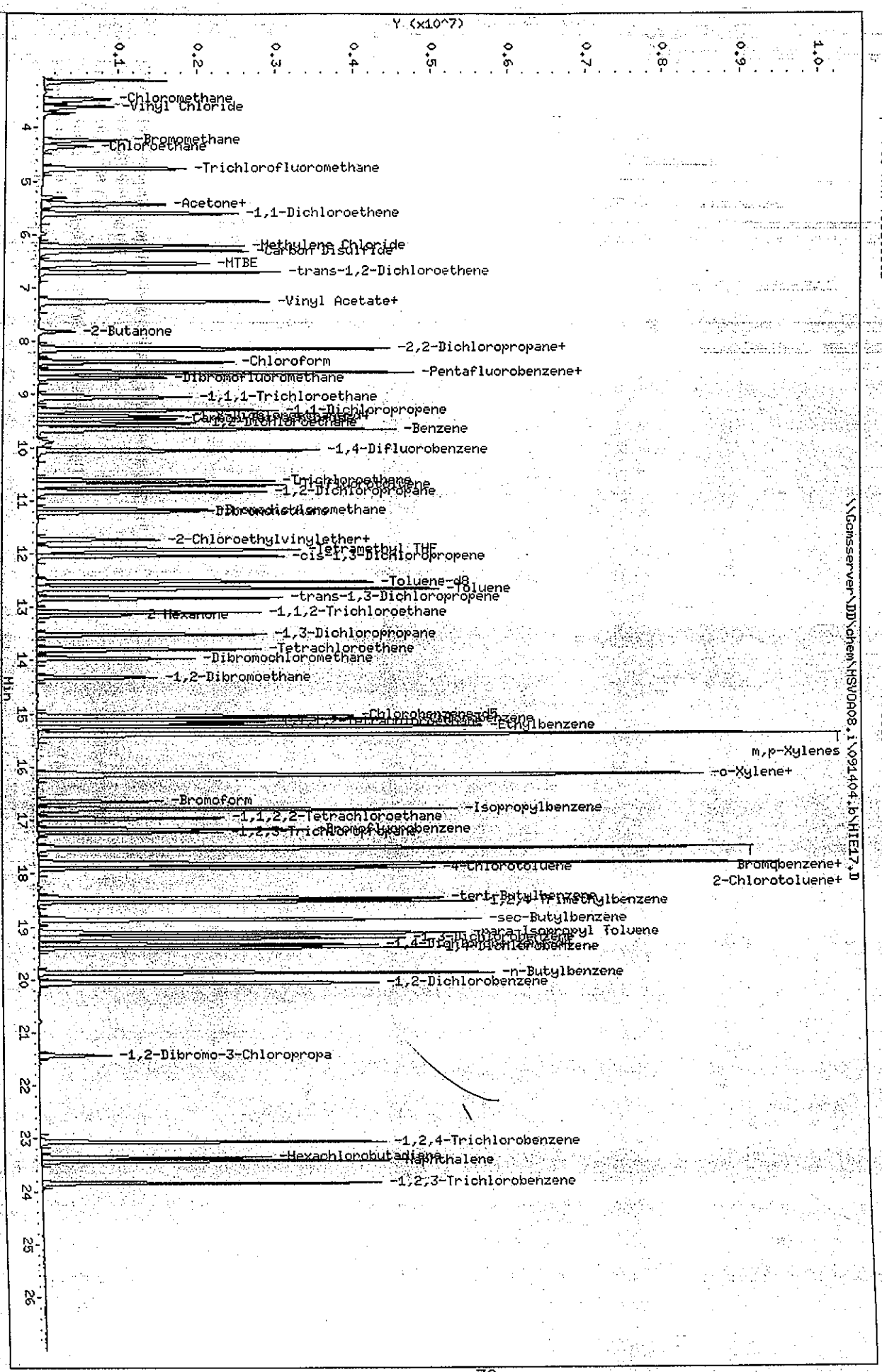
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.426	23.426	(1.212)	4874113	100.000	108.4393
78 1,2,3-Trichlorobenzene	180	23.840	23.840	(1.233)	1793929	100.000	99.5965

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\HSVOA08.i\091404.b\HIE17.D
Date : 14-SEP-2004 20:48
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.02/100,04WS1422E,0.04/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.32



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 25 PPB IDF : 1.0
Seqnum : 474403761003 Filename : hj603 Injected : 06-OCT-2004 10:21
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (10000X), 04SS352 (20000X), 04WS1715 (40000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4379	0.5672	25.00000	32.38290	ug/L	30	30	0.0500	!c+
Chloromethane	0.4287	0.4647	25.00000	27.10100	ug/L	8	30	0.1000	
Vinyl Chloride	0.2942	0.3319	25.00000	28.19770	ug/L	13	20	0.0500	
Bromomethane	0.1772	0.1197	25.00000	16.89210	ug/L	-32	30	0.0500	c- ***
Chloroethane	0.1894	0.2115	25.00000	27.90510	ug/L	12	30	0.0500	
Trichlorofluoromethane	0.5101	0.6156	25.00000	30.17230	ug/L	21	30	0.0500	!c+
Acetone	0.1624	0.1410	25.00000	23.04410	ug/L	-8	40	0.0500	
Freon 113	0.2991	0.2983	25.00000	24.93690	ug/L	0	30	0.0500	
1,1-Dichloroethene	0.2966	0.2805	25.00000	23.64720	ug/L	-5	20	0.0500	
Methylene Chloride	0.3846	0.3834	25.00000	24.92280	ug/L	0	30	0.0500	
Carbon Disulfide	1.1484	1.1202	25.00000	24.38650	ug/L	-2	30	0.0500	
MTBE	0.8243	0.7070	25.00000	21.44290	ug/L	-14	30	0.0500	
trans-1,2-Dichloroethene	0.3367	0.3303	25.00000	24.52110	ug/L	-2	30	0.0500	
Vinyl Acetate	0.9409	0.8803	25.00000	23.39110	ug/L	-6	40	0.0500	
1,1-Dichloroethane	0.6132	0.6317	25.00000	25.75490	ug/L	3	30	0.1000	
2-Butanone	0.2067	0.1840	25.00000	22.25680	ug/L	-11	40	0.0500	
2,2-Dichloropropane	0.4357	0.4356	25.00000	24.98970	ug/L	0	30	0.0500	
cis-1,2-Dichloroethene	0.3462	0.3438	25.00000	24.82500	ug/L	-1	30	0.0500	
Chloroform	0.5880	0.6121	25.00000	26.02400	ug/L	4	20	0.0500	
Bromochloromethane	0.1678	0.1737	25.00000	25.87650	ug/L	4	30	0.0500	
1,1,1-Trichloroethane	0.4272	0.4338	25.00000	25.38540	ug/L	2	30	0.0500	
1,1-Dichloropropene	0.2622	0.2327	25.00000	22.18870	ug/L	-11	30	0.0500	
Carbon Tetrachloride	0.2049	0.1947	25.00000	23.75340	ug/L	-5	30	0.0500	
1,2-Dichloroethane	0.2641	0.2671	25.00000	25.28860	ug/L	1	30	0.0500	
Benzene	0.7466	0.6815	25.00000	22.81970	ug/L	-9	30	0.0500	
Trichloroethene	0.1852	0.1742	25.00000	23.52050	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.1956	0.1882	25.00000	24.04640	ug/L	-4	20	0.0500	
Bromodichloromethane	0.2607	0.2512	25.00000	24.08540	ug/L	-4	30	0.0500	
Dibromomethane	0.1487	0.1443	25.00000	24.26100	ug/L	-3	30	0.0500	
2-Chloroethylvinylether	3.1E-4	0.0000	25.00000	0.000000	ug/L	-100	40	0.0500	c- crf
4-Methyl-2-Pentanone	0.2400	0.2024	25.00000	21.08110	ug/L	-16	40	0.0500	
Tetramethyl THF	0.4895	0.4692	25.00000	23.96590	ug/L	-4	30	0.0500	
cis-1,3-Dichloropropene	0.3159	0.2903	25.00000	22.97770	ug/L	-8	30	0.0500	
Toluene	0.4210	0.4022	25.00000	23.88320	ug/L	-4	20	0.0500	
trans-1,3-Dichloropropene	0.2807	0.2558	25.00000	22.78780	ug/L	-9	30	0.0500	
1,1,2-Trichloroethane	0.1036	0.1019	25.00000	24.57830	ug/L	-2	30	0.0500	
2-Hexanone	0.2026	0.1740	25.00000	21.47220	ug/L	-14	40	0.0500	
1,3-Dichloropropane	0.3577	0.3456	25.00000	24.15210	ug/L	-3	30	0.0500	
Tetrachloroethene	0.1878	0.1674	25.00000	22.28180	ug/L	-11	30	0.0500	
Dibromochloromethane	0.2295	0.2062	25.00000	22.46730	ug/L	-10	30	0.0500	
1,2-Dibromoethane	0.1916	0.1836	25.00000	23.95650	ug/L	-4	30	0.0500	
Chlorobenzene	0.5673	0.5297	25.00000	23.34260	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1887	0.1782	25.00000	23.60430	ug/L	-6	30	0.0500	
Ethylbenzene	0.9838	0.9269	25.00000	23.55560	ug/L	-6	20	0.0500	
m,p-Xylenes	0.3509	0.3337	50.00000	47.54090	ug/L	-5	30	0.0500	
o-Xylene	0.3475	0.3295	25.00000	23.70540	ug/L	-5	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 25 PPB IDF : 1.0
Seqnum : 474403761003 Filename : hj603 Injected : 06-OCT-2004 10:21
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (10000X), 04SS352 (20000X), 04WS1715 (40000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.6004	0.5724	25.00000	23.83390	ug/L	-5	30	0.0500	
Bromoform	0.1693	0.1323	25.00000	19.53370	ug/L	**-22**	30	0.1000	!c-
Isopropylbenzene	1.8676	1.7018	25.00000	22.78050	ug/L	-9	30	0.0500	
1,1,2,2-Tetrachloroethane	0.6555	0.6450	25.00000	24.59930	ug/L	-2	30	0.3000	
1,2,3-Trichloropropane	0.1712	0.1562	25.00000	24.70350	ug/L	-1	30	0.0500	
Propylbenzene	2.4126	2.2785	25.00000	23.61070	ug/L	-6	30	0.0500	
Bromobenzene	0.4628	0.4322	25.00000	23.34330	ug/L	-7	30	0.0500	
1,3,5-Trimethylbenzene	1.5358	1.4311	25.00000	23.29630	ug/L	-7	30	0.0500	
2-Chlorotoluene	1.5989	1.5170	25.00000	23.71870	ug/L	-5	30	0.0500	
4-Chlorotoluene	1.4914	1.4048	25.00000	23.54830	ug/L	-6	30	0.0500	
tert-Butylbenzene	1.3699	1.2296	25.00000	22.43930	ug/L	-10	30	0.0500	m
1,2,4-Trimethylbenzene	1.5728	1.4850	25.00000	23.60380	ug/L	-6	30	0.0500	
sec-Butylbenzene	2.1301	1.9836	25.00000	23.28070	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	1.6453	1.5181	25.00000	23.06780	ug/L	-8	30	0.0500	
1,3-Dichlorobenzene	0.8843	0.8256	25.00000	23.33940	ug/L	-7	30	0.0500	
1,4-Dichlorobenzene	0.9036	0.8617	25.00000	23.84030	ug/L	-5	30	0.0500	
n-Butylbenzene	1.6564	1.5324	25.00000	23.12820	ug/L	-7	30	0.0500	
1,2-Dichlorobenzene	0.8487	0.7928	25.00000	23.35330	ug/L	-7	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1113	0.0944	25.00000	21.21100	ug/L	-15	30	0.0500	
1,2,4-Trichlorobenzene	0.5366	0.4596	25.00000	21.41370	ug/L	-14	30	0.0500	
Hexachlorobutadiene	0.2145	0.1799	25.00000	20.97050	ug/L	-16	30	0.0500	
Naphthalene	1.3302	1.1524	25.00000	21.65880	ug/L	-13	30	0.0500	
1,2,3-Trichlorobenzene	0.5330	0.4575	25.00000	21.45590	ug/L	-14	30	0.0500	
Dibromofluoromethane	0.6083	0.6667	50.00000	54.79560	ug/L	10	30	0.0500	
1,2-Dichloroethane-d4	0.3989	0.4204	50.00000	52.69760	ug/L	5	30	0.0500	
Trifluorotoluene	0.2537	0.2252	25.00000	22.19690	ug/L	-11	30	0.0500	
Toluene-d8	0.9888	1.0124	50.00000	51.19540	ug/L	2	30	0.0500	
Bromofluorobenzene	1.1614	1.1654	50.00000	50.17130	ug/L	0	30	0.0500	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	1828692	-22.03	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	3388130	-16.17	10.05	10.05	0.00
Chlorobenzene-d5	3289931	2812163	-14.52	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1366615	-11.75	19.34	19.34	0.00

LW 10-6-04

10/06/04

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure m=manual integration

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 25 PPB IDF : 1.0
Seqnum : 474403761012 Filename : hj612 Injected : 06-OCT-2004 15:46
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (10000X), 04SS352 (20000X), 04WS1715 (40000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4379	0.5493	25.00000	31.36330	ug/L	**25**	30	0.0500	!c+
Chloromethane	0.4287	0.4942	25.00000	28.82260	ug/L	15	30	0.1000	
Vinyl Chloride	0.2942	0.3403	25.00000	28.91350	ug/L	16	20	0.0500	
Bromomethane	0.1772	0.1406	25.00000	19.84080	ug/L	**-21**	30	0.0500	!c-
Chloroethane	0.1894	0.2136	25.00000	28.19400	ug/L	13	30	0.0500	
Trichlorofluoromethane	0.5101	0.6037	25.00000	29.58790	ug/L	18	30	0.0500	
Acetone	0.1624	0.1374	25.00000	22.45190	ug/L	-10	40	0.0500	
Freon 113	0.2991	0.2900	25.00000	24.23890	ug/L	-3	30	0.0500	
1,1-Dichloroethene	0.2966	0.2832	25.00000	23.87270	ug/L	-5	20	0.0500	
Methylene Chloride	0.3846	0.3899	25.00000	25.34320	ug/L	1	30	0.0500	
Carbon Disulfide	1.1484	1.1238	25.00000	24.46470	ug/L	-2	30	0.0500	
MTBE	0.8243	0.7105	25.00000	21.54900	ug/L	-14	30	0.0500	
trans-1,2-Dichloroethene	0.3367	0.3300	25.00000	24.50040	ug/L	-2	30	0.0500	
Vinyl Acetate	0.9409	0.8571	25.00000	22.77490	ug/L	-9	40	0.0500	
1,1-Dichloroethane	0.6132	0.6448	25.00000	26.28730	ug/L	5	30	0.1000	
2-Butanone	0.2067	0.1749	25.00000	21.15220	ug/L	-15	40	0.0500	
2,2-Dichloropropane	0.4357	0.3949	25.00000	22.65750	ug/L	-9	30	0.0500	
cis-1,2-Dichloroethene	0.3462	0.3451	25.00000	24.91660	ug/L	0	30	0.0500	
Chloroform	0.5880	0.6221	25.00000	26.44900	ug/L	6	20	0.0500	
Bromochloromethane	0.1678	0.1746	25.00000	26.01020	ug/L	4	30	0.0500	
1,1,1-Trichloroethane	0.4272	0.4429	25.00000	25.91640	ug/L	4	30	0.0500	
1,1-Dichloropropene	0.2622	0.2430	25.00000	23.17110	ug/L	-7	30	0.0500	
Carbon Tetrachloride	0.2049	0.2005	25.00000	24.46800	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.2641	0.2691	25.00000	25.47420	ug/L	2	30	0.0500	
Benzene	0.7466	0.7084	25.00000	23.72020	ug/L	-5	30	0.0500	
Trichloroethene	0.1852	0.1779	25.00000	24.01270	ug/L	-4	30	0.0500	
1,2-Dichloropropane	0.1956	0.1947	25.00000	24.88430	ug/L	0	20	0.0500	
Bromodichloromethane	0.2607	0.2530	25.00000	24.26130	ug/L	-3	30	0.0500	
Dibromomethane	0.1487	0.1477	25.00000	24.83670	ug/L	-1	30	0.0500	
2-Chloroethylvinylether	3.1E-4	**2.0E-4**	25.00000	15.90170	ug/L	**-36**	40	0.0500	! !c- c
4-Methyl-2-Pentanone	0.2400	0.2050	25.00000	21.34910	ug/L	-15	40	0.0500	
Tetramethyl THF	0.4895	0.4712	25.00000	24.06500	ug/L	-4	30	0.0500	
cis-1,3-Dichloropropene	0.3159	0.2899	25.00000	22.94090	ug/L	-8	30	0.0500	
Toluene	0.4210	0.4098	25.00000	24.33540	ug/L	-3	20	0.0500	
trans-1,3-Dichloropropene	0.2807	0.2614	25.00000	23.28460	ug/L	-7	30	0.0500	
1,1,2-Trichloroethane	0.1036	0.1062	25.00000	25.63040	ug/L	3	30	0.0500	
2-Hexanone	0.2026	0.1683	25.00000	20.77630	ug/L	-17	40	0.0500	
1,3-Dichloropropane	0.3577	0.3601	25.00000	25.16570	ug/L	1	30	0.0500	
Tetrachloroethene	0.1878	0.1715	25.00000	22.82450	ug/L	-9	30	0.0500	
Dibromochloromethane	0.2295	0.2123	25.00000	23.12610	ug/L	-7	30	0.0500	
1,2-Dibromoethane	0.1916	0.1862	25.00000	24.29300	ug/L	-3	30	0.0500	
Chlorobenzene	0.5673	0.5403	25.00000	23.81340	ug/L	-5	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1887	0.1799	25.00000	23.83480	ug/L	-5	30	0.0500	
Ethylbenzene	0.9838	0.9480	25.00000	24.09080	ug/L	-4	20	0.0500	
m,p-Xylenes	0.3509	0.3408	50.00000	48.55340	ug/L	-3	30	0.0500	
o-Xylene	0.3475	0.3335	25.00000	23.98920	ug/L	-4	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 25 PPB IDF : 1.0
Seqnum : 474403761012 Filename : hj612 Injected : 06-OCT-2004 15:46
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (10000X), 04SS352 (20000X), 04WS1715 (40000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.6004	0.5801	25.00000	24.15360	ug/L	-3	30	0.0500	
Bromoform	0.1693	0.1302	25.00000	19.22300	ug/L	-23	30	0.1000	!c-
Isopropylbenzene	1.8676	1.7427	25.00000	23.32800	ug/L	-7	30	0.0500	
1,1,2,2-Tetrachloroethane	0.6555	0.6391	25.00000	24.37340	ug/L	-3	30	0.3000	
1,2,3-Trichloropropane	0.1712	0.1500	25.00000	23.70630	ug/L	-5	30	0.0500	
Propylbenzene	2.4126	2.2997	25.00000	23.83070	ug/L	-5	30	0.0500	
Bromobenzene	0.4628	0.4302	25.00000	23.23530	ug/L	-7	30	0.0500	
1,3,5-Trimethylbenzene	1.5358	1.4617	25.00000	23.79520	ug/L	-5	30	0.0500	
2-Chlorotoluene	1.5989	1.5389	25.00000	24.06140	ug/L	-4	30	0.0500	
4-Chlorotoluene	1.4914	1.4316	25.00000	23.99600	ug/L	-4	30	0.0500	
tert-Butylbenzene	1.3699	1.2750	25.00000	23.26840	ug/L	-7	30	0.0500	
1,2,4-Trimethylbenzene	1.5728	1.5052	25.00000	23.92550	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.1301	1.9719	25.00000	23.14400	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	1.6453	1.5012	25.00000	22.81170	ug/L	-9	30	0.0500	
1,3-Dichlorobenzene	0.8843	0.8239	25.00000	23.29090	ug/L	-7	30	0.0500	
1,4-Dichlorobenzene	0.9036	0.8550	25.00000	23.65600	ug/L	-5	30	0.0500	
n-Butylbenzene	1.6564	1.5544	25.00000	23.46080	ug/L	-6	30	0.0500	
1,2-Dichlorobenzene	0.8487	0.8020	25.00000	23.62380	ug/L	-6	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1113	0.0946	25.00000	21.24780	ug/L	-15	30	0.0500	
1,2,4-Trichlorobenzene	0.5366	0.4558	25.00000	21.23420	ug/L	-15	30	0.0500	
Hexachlorobutadiene	0.2145	0.1768	25.00000	20.60980	ug/L	-18	30	0.0500	
Naphthalene	1.3302	1.1765	25.00000	22.11250	ug/L	-12	30	0.0500	
1,2,3-Trichlorobenzene	0.5330	0.4534	25.00000	21.26590	ug/L	-15	30	0.0500	
Dibromofluoromethane	0.6083	0.6641	50.00000	54.58800	ug/L	9	30	0.0500	
1,2-Dichloroethane-d4	0.3989	0.4271	50.00000	53.52920	ug/L	7	30	0.0500	
Trifluorotoluene	0.2537	0.2230	25.00000	21.97400	ug/L	-12	30	0.0500	
Toluene-d8	0.9888	1.0207	50.00000	51.61450	ug/L	3	30	0.0500	
Bromofluorobenzene	1.1614	1.1485	50.00000	49.44440	ug/L	-1	30	0.0500	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	1887584	-19.52	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	3428840	-15.17	10.05	10.05	0.00
Chlorobenzene-d5	3289931	2845502	-13.51	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1379334	-10.93	19.34	19.33	-0.01

LW 10-6-04

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-OCT-2004
Sequence: 474403761 (hj6)
Instrument ID: MSVOA08

ICAL Filename: hie15
Date Analyzed: 14-SEP-2004
Time Analyzed: 19:35

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	2345303	8.58	4041778	10.05	3289931	15.04	1548545	19.34
LOWER LIMIT	1172652	8.08	2020889	9.55	1644966	14.54	774273	18.84
UPPER LIMIT	4690606	9.08	8083556	10.55	6579862	15.54	3097090	19.84

TYPE	SAMPLE	#								
CCV	25 PPB	003	1828692	8.58	3388130	10.05	2812163	15.04	1366615	19.34
BS	QC267013	004	1917246	8.58	3480260	10.05	2867351	15.04	1375122	19.34
BSD	QC267014	005	1928384	8.58	3488583	10.04	2887781	15.04	1376071	19.33
BLANK	QC267015	007	1849625	8.58	3372348	10.05	2767178	15.04	1268375	19.34
SAMPLE	174996-004	008	1829447	8.58	3364577	10.05	2733641	15.04	1239795	19.34
SAMPLE	175045-001	009	1818094	8.57	3309823	10.05	2677690	15.04	1242195	19.34
SAMPLE	175045-007	010	1778151	8.58	3250275	10.04	2648260	15.04	1237495	19.33
CCV	25 PPB	012	1887584	8.58	3428840	10.05	2845502	15.04	1379334	19.33
BLANK	QC267016	014	1788791	8.58	3314938	10.05	2740506	15.04	1251623	19.34
SAMPLE	175037-011	015	1827435	8.58	3357052	10.05	2741019	15.04	1264879	19.34
SAMPLE	175056-007	016	1800924	8.58	3332009	10.05	2723080	15.04	1257744	19.34
SAMPLE	175093-004	017	1824951	8.58	3314583	10.05	2719080	15.04	1265731	19.34
SAMPLE	175093-003	018	1824711	8.58	3301881	10.05	2707551	15.04	1242312	19.34
SAMPLE	175093-002	019	1791571	8.58	3289807	10.05	2703743	15.04	1228249	19.34
SAMPLE	175045-018	020	1793730	8.58	3266793	10.05	2710612	15.04	1229289	19.34
SAMPLE	175054-020	021	1794596	8.58	3243530	10.05	2822937	15.04	1343103	19.33
SAMPLE	175056-002	022	1896908	8.58	3459754	10.05	2800095	15.04	1305201	19.34
SAMPLE	175056-003	023	1881286	8.58	3403423	10.05	2809562	15.04	1307433	19.34
SAMPLE	175056-004	024	1907065	8.58	3459878	10.04	2822754	15.04	1323634	19.33
SAMPLE	175056-001	025	1814241	8.58	3366309	10.05	2720307	15.04	1250531	19.33
SAMPLE	175056-005	026	1831814	8.58	3358875	10.04	2825226	15.04	1280824	19.33
SAMPLE	175056-006	027	1912944	8.58	3438684	10.05	2793938	15.04	1257124	19.34
SAMPLE	175056-008	028	1822162	8.58	3308367	10.05	2748805	15.04	1252677	19.34
SAMPLE	175093-001	029	1811198	8.58	3325401	10.05	2754311	15.04	1254211	19.33
SAMPLE	175085-001	030	1789982	8.58	3286160	10.04	2732269	15.04	1239885	19.33

8260 ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 474372175 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 14-SEP-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hie01	TUN	BFB			14-SEP-2004 10:55	1.0					1	
002	hie02	TUN	BFB			14-SEP-2004 11:14	1.0					1	
003	hie03	TUN	BFB			14-SEP-2004 11:29	1.0	1				1 t	
004	hie04	TUN	BFB			14-SEP-2004 13:39	1.0					1	
005	hie05	TUN	BFB			14-SEP-2004 13:53	1.0					1	
006	hie06	TUN	BFB			14-SEP-2004 14:06	1.0					1	
007	hie07	X	IB			14-SEP-2004 14:51	1.0					2	
008	hie08	TUN	BFB			14-SEP-2004 15:30	1.0					1	
009	hie09	X	IB			14-SEP-2004 15:58	1.0					2	
010	hie10	X	CALIB IB			14-SEP-2004 16:34	1.0					2	
011	hie11	ICAL	1.0/0.5 PPB			14-SEP-2004 17:11	1.0					3 4 5 2	
012	hie12	ICAL	5 PPB			14-SEP-2004 17:47	1.0					3 4 5 2	
013	hie13	ICAL	10 PPB			14-SEP-2004 18:23	1.0					3 4 5 2	
014	hie14	ICAL	20 PPB			14-SEP-2004 18:59	1.0					3 4 5 2	
015	hie15	ICAL	50 PPB			14-SEP-2004 19:35	1.0					3 4 5 2	
016	hie16	ICAL	75 PPB			14-SEP-2004 20:12	1.0					3 4 5 2	
017	hie17	ICAL	100 PPB			14-SEP-2004 20:48	1.0					3 4 5 2	
018	hie18	ICV				14-SEP-2004 21:24	1.0		5000			6 2	
019	hie19	ICV				14-SEP-2004 22:01	1.0		5000			7 2	
020	hie20	X	IB			14-SEP-2004 22:37	1.0					2	
021	hie21	X	IB			14-SEP-2004 23:14	1.0					2	
022	hie22	X	IB			14-SEP-2004 23:50	1.0					2	

tuning mass spec

ICAL passed except 2-Clev Failed and did not meet min RF
ICV OK LUSACE Freon 12↓, Chloromethane↓

Stds used: 1=04WS1238 2=04WS1453C 3=04SS331 4=04WS1422E 5=04WS1715A 6=04WS1541 7=04WS1554
Flags used: t=tune failure

Analyst: LW Date: 9-15-04

09/15/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 474403761 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 06-OCT-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hj601	X	IB			06-OCT-2004 09:21	1.0						1	
002	hj602	TUN	BFB			06-OCT-2004 09:52	1.0						2	
003	hj603	CCV	25 PPB			06-OCT-2004 10:21	1.0	2		5000			3 4 5 1	
004	hj604	BS	QC267013	95206	Water	06-OCT-2004 11:09	1.0	2		5000			6 7 1	
005	hj605	BSD	QC267014	95206	Water	06-OCT-2004 11:45	1.0	2		5000			6 7 1	
006	hj606	X	IB			06-OCT-2004 12:22	1.0						1	
007	hj607	BLANK	QC267015	95206	Water	06-OCT-2004 12:58	1.0	1	1	5000			1	
008	hj608	SAMPLE	174996-004	95206	Water	06-OCT-2004 13:34	1.0			5000	C	12	1	
009	hj609	SAMPLE	175045-001	95206	Water	06-OCT-2004 14:10	33.33			5000			1	
010	hj610	SAMPLE	175045-007	95206	Water	06-OCT-2004 14:46	10.0			5000			1	
011	hj611	TUN	BFB			06-OCT-2004 15:18	1.0						2	
012	hj612	CCV	25 PPB			06-OCT-2004 15:46	1.0	1		5000			3 4 5 1	
013	hj613	X	IB			06-OCT-2004 16:33	1.0						1	
014	hj614	BLANK	QC267016	95206	Water	06-OCT-2004 17:09	1.0	1	1	5000			1	
015	hj615	SAMPLE	175037-011	95206	Water	06-OCT-2004 17:45	1.0			5000	B	12	1	
016	hj616	SAMPLE	175056-007	95206	Water	06-OCT-2004 18:21	1.0			5000	A		1	
017	hj617	SAMPLE	175093-004	95206	Water	06-OCT-2004 18:57	1.0			5000	A		1	
018	hj618	SAMPLE	175093-003	95206	Water	06-OCT-2004 19:34	1.0			5000	B		1	
019	hj619	SAMPLE	175093-002	95206	Water	06-OCT-2004 20:10	1.0			5000	B		1	
020	hj620	SAMPLE	175045-018	95206	Water	06-OCT-2004 20:46	142.9			5000	C		1	
021	hj621	SAMPLE	175054-020	95206	Water	06-OCT-2004 21:23	1.0			5000	A		1	
022	hj622	SAMPLE	175056-002	95206	Water	06-OCT-2004 21:59	1.0			5000	B		1	
023	hj623	SAMPLE	175056-003	95206	Water	06-OCT-2004 22:36	1.0			5000			1	
024	hj624	SAMPLE	175056-004	95206	Water	06-OCT-2004 23:12	1.0	1		5000			1 RRC2x	1:DCE12C=104.827
025	hj625	SAMPLE	175056-001	95206	Water	06-OCT-2004 23:49	25.0			5000			1 RRC14.2x	
026	hj626	SAMPLE	175056-005	95206	Water	07-OCT-2004 00:25	14.29	1		5000			1 RRC25x	1:TCE=110.849
027	hj627	SAMPLE	175056-006	95206	Water	07-OCT-2004 01:02	20.0	1		5000			1 RRC83x	1:TCE=233.664
028	hj628	SAMPLE	175056-008	95206	Water	07-OCT-2004 01:38	8.333	1		5000			1 RRC50x	1:TCE=293.734
029	hj629	SAMPLE	175093-001	95206	Water	07-OCT-2004 02:15	7.143			5000	B		1 RRC6.25x rco	
030	hj630	SAMPLE	175085-001	95206	Water	07-OCT-2004 02:51	4.0			5000	B		1	
031	hj631-33	X	IB			07-OCT-2004 03:27	1.0						1	

ICAL- OK except no 2-Clere ICV- OK (VSACE Freon 12↓, Chloromethane↓)

Stds used: 1=04WS1580 2=04WS1238 3=04WS1756 4=04SS352 5=04WS1715 6=04WS1554 7=04WS1726

Analyst: LW Date: 10-7-04 CCV HJ603: Bromomethane↓, no 2-Clere (VSACE Freon 12↑, Trichloro Fluoromethane↑, Bromoform↓)

Page 1 of 21

10/7/04 CCV HJ612: No 2-Clere (VSACE Freon 12↑, Bromomethane↓, 2-Clere↓, Bromoform↓)

REPORTING SUMMARY FOR 175037 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
				C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
				1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B	P
				2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	Z	P	1	U	H
Lab ID	Inst ID	Analyzed	IDF									2					2			3							2			2				2		3	2		3																				2	3		2	2			2	3	3			
175037-011	MSVOA08	10/06/04 17:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267013	MSVOA08	10/06/04 11:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267014	MSVOA08	10/06/04 11:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267015	MSVOA08	10/06/04 12:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267016	MSVOA08	10/06/04 17:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 10-6

PREPPED BY.

95206

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
	175045-18		C	<2			8	142x	
	-7		↓	↓				10x	
	-2							~~625x~~ ✓	
								33x	
	-1		C	<2				1x ✓ Acr	
	175054-20		A	↓				TB	
	175037-11		B	<2				7.14x cis-1,2-DCE	
	175093-1		↓	↓				1x	
	-2		↓	↓				1x	
	-3		↓	↓				TB	
	-4		A	↓	dV		4	1x	
	175028-17		C	↓					
	-16		B	↓					
	-17		↓	↓					
	-18		↓	↓					
	-19		↓	↓					
	-20		↓	↓					
	-21		↓	↓					
	-22		A	↓			↓	TB	
	175085-1		B	<2			↓	~~25x~~ 4x	
	175056-1		↓	<2				25x	
	-2		↓	↓				1x	
	-3		↓	↓				1x	
	-4		↓	↓				1x	
	-5		↓	<2				14.2x	
	-6		↓	↓				20x	
	-7		A	<2				TB	
	-8		B	<2				8.3x	
	174996-4		C	<2				1x	

PREPFORM.XLS

7/21/98

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	09/11/04 0.20	03/04/04 0.080	10/12/04 0.083	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	09/11/04 0.031	02/03/04 0.097	10/12/04 0.040	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	09/11/04 0.069	03/04/04 0.15	10/12/04 0.089	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	09/11/04 0.087	03/04/04 0.11	10/12/04 0.074	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	09/11/04 0.031	03/04/04 0.14	10/12/04 0.070	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	09/11/04 0.046	03/04/04 0.21	10/12/04 0.14	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	09/11/04 0.15	02/11/04 0.22	10/12/04 0.22	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	09/11/04 0.12	02/11/04 0.20	10/12/04 0.14	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	09/11/04 0.18	03/04/04 0.21	10/12/04 0.34	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	09/11/04 0.27	02/11/04 0.38	10/12/04 0.36	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	09/11/04 0.090	03/04/04 0.23	10/12/04 0.098	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L	09/15/04 1.0	02/25/04 1.1	10/12/04 0.31	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	09/11/04 0.091	02/03/04 0.14	10/12/04 0.088	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	09/11/04 0.11	03/04/04 0.19	10/12/04 0.19	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	09/11/04 0.074	02/11/04 0.17	10/12/04 0.049	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	09/11/04 0.078	03/04/04 0.13	10/12/04 0.042	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	09/11/04 0.089	03/04/04 0.13	10/12/04 0.18	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	09/11/04 0.069	02/10/04 0.18	10/12/04 0.067	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	09/11/04 0.057	03/04/04 0.17	10/12/04 0.12	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	09/11/04 0.39	02/25/04 0.56	10/12/04 0.27	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	09/11/04 0.13	03/04/04 0.17	10/12/04 0.068	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	09/11/04 0.085	03/04/04 0.14	10/12/04 0.10	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	09/11/04 0.11	03/04/04 0.16	10/12/04 0.046	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	09/11/04 0.18	03/04/04 0.16	10/12/04 0.13	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	09/11/04 0.099	03/04/04 0.10	10/12/04 0.050	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	09/11/04 0.089	02/03/04 0.10	10/12/04 0.098	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	09/11/04 0.10	03/04/04 0.14	10/12/04 0.091	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	09/11/04 0.12	03/04/04 0.16	10/12/04 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	09/11/04 0.093	02/03/04 0.12	10/12/04 0.079	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	09/11/04 0.086	03/04/04 0.12	10/12/04 0.055	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	09/11/04 0.076	03/04/04 0.16	10/12/04 0.066	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	09/11/04 0.16	02/25/04 0.47	10/12/04 0.18	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	09/11/04 0.055	02/03/04 0.12	10/12/04 0.083	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	09/11/04 0.074	03/04/04 0.14	10/12/04 0.070	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	09/11/04 0.051	02/11/04 0.16	10/12/04 0.12	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	09/11/04 0.16	02/11/04 0.14	10/12/04 0.089	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	09/11/04 0.070	03/04/04 0.11	10/12/04 0.068	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	09/11/04 0.13	02/03/04 0.13	10/12/04 0.13	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	09/11/04 0.059	03/04/04 0.18	10/12/04 0.082	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	09/11/04 0.11	03/04/04 0.17	10/12/04 0.086	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	02/11/04 0.33	10/12/04 0.10	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	09/11/04 0.13	03/04/04 0.11	10/12/04 0.084	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	09/11/04 0.055	02/03/04 0.059	10/12/04 0.069	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	09/11/04 0.093	02/03/04 0.10	10/12/04 0.20	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	09/11/04 0.087	02/03/04 0.070	10/12/04 0.096	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	09/11/04 0.092	03/04/04 0.096	10/12/04 0.062	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	09/11/04 0.080	02/11/04 0.16	10/12/04 0.098	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	09/11/04 0.11	03/04/04 0.095	10/12/04 0.060	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	09/11/04 0.036	02/03/04 0.12	10/12/04 0.076	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	09/11/04 0.15	02/25/04 0.38	10/12/04 0.11	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	09/11/04 0.091	03/04/04 0.077	10/12/04 0.062	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	09/11/04 0.14	02/03/04 0.15	10/12/04 0.11	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	09/11/04 0.088	03/04/04 0.13	10/12/04 0.077	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	09/11/04 0.093	02/03/04 0.059	10/12/04 0.099	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	09/11/04 0.12	03/04/04 0.098	10/12/04 0.063	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	09/11/04 0.10	02/03/04 0.049	10/12/04 0.050	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	09/11/04 0.13	03/04/04 0.084	10/12/04 0.096	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	09/11/04 0.061	03/04/04 0.096	10/12/04 0.063	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	09/11/04 0.066	03/04/04 0.12	10/12/04 0.085	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	09/11/04 0.036	03/04/04 0.12	10/12/04 0.068	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	09/11/04 0.12	03/04/04 0.13	10/12/04 0.093	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	09/11/04 0.14	03/04/04 0.087	10/12/04 0.12	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	09/11/04 0.066	03/04/04 0.14	10/12/04 0.078	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	09/11/04 0.37	03/04/04 0.45	10/12/04 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	09/11/04 0.11	02/25/04 0.13	10/12/04 0.21	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	09/11/04 0.21	02/03/04 0.15	10/12/04 0.20	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	09/11/04 0.16	02/11/04 0.12	10/12/04 0.083	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	09/11/04 0.072	02/03/04 0.075	10/12/04 0.11	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	09/11/04 0.71	02/25/04 3.7	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	09/11/04 0.030	02/25/04 0.12	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	09/11/04 0.069	02/25/04 0.057	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	09/11/04 0.090	02/25/04 0.071	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	09/11/04 2.8	03/04/04 23	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0
Ethanol	ug/L	09/11/04 33	02/25/04 35	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L	09/11/04 1.6	03/04/04 12	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	09/11/04 0.24	03/04/04 11	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	09/11/04 0.067	03/04/04 0.096	10/12/04 0.15	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L			10/12/04 1.1	06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX130[0.5]	Diln Fac:	1.000
Lab ID:	175037-003	Batch#:	95125
Matrix:	Soil	Sampled:	10/01/04
Units:	ug/Kg	Received:	10/01/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 2%

Analyte	Result	RL	MDL
Freon 12	ND	10	0.5
Chloromethane	ND	10	0.8
Vinyl Chloride	ND	10	0.8
Bromomethane	ND	10	1.4
Chloroethane	ND	10	0.6
Trichlorofluoromethane	ND	5.1	0.8
Acetone	ND	20	1.7
Freon 113	ND	5.1	0.8
1,1-Dichloroethene	ND	5.1	0.7
Methylene Chloride	ND	20	0.4
Carbon Disulfide	ND	5.1	4.1
MTBE	ND	5.1	0.4
trans-1,2-Dichloroethene	ND	5.1	0.5
Vinyl Acetate	ND	51	0.7
1,1-Dichloroethane	ND	5.1	0.5
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	5.1	0.8
2,2-Dichloropropane	ND	5.1	0.8
Chloroform	ND	5.1	0.7
Bromochloromethane	ND	5.1	0.6
1,1,1-Trichloroethane	ND	5.1	1.0
1,1-Dichloropropene	ND	5.1	0.7
Carbon Tetrachloride	ND	5.1	0.6
1,2-Dichloroethane	ND	5.1	0.5
Benzene	ND	5.1	0.6
Trichloroethene	ND	5.1	0.6
1,2-Dichloropropane	ND	5.1	1.0
Bromodichloromethane	ND	5.1	0.7
Dibromomethane	ND	5.1	0.6
4-Methyl-2-Pentanone	ND	10	1.6
cis-1,3-Dichloropropene	ND	5.1	0.5
Toluene	ND	5.1	0.5
trans-1,3-Dichloropropene	ND	5.1	0.8
1,1,2-Trichloroethane	ND	5.1	0.8
2-Hexanone	ND	10	0.8
1,3-Dichloropropane	ND	5.1	0.5
Tetrachloroethene	ND	5.1	0.6
Dibromochloromethane	ND	5.1	0.5
1,2-Dibromoethane	ND	5.1	0.4
Chlorobenzene	ND	5.1	0.6
1,1,1,2-Tetrachloroethane	ND	5.1	0.6
Ethylbenzene	ND	5.1	0.4
m,p-Xylenes	ND	5.1	1.2
o-Xylene	ND	5.1	0.3
Styrene	ND	5.1	0.3
Bromoform	ND	5.1	0.8
Isopropylbenzene	ND	5.1	0.7
1,1,2,2-Tetrachloroethane	ND	5.1	1.0
1,2,3-Trichloropropane	ND	5.1	1.5
Propylbenzene	ND	5.1	0.7
Bromobenzene	ND	5.1	0.9
1,3,5-Trimethylbenzene	ND	5.1	0.8

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX130[0.5]	Diln Fac:	1.000
Lab ID:	175037-003	Batch#:	95125
Matrix:	Soil	Sampled:	10/01/04
Units:	ug/Kg	Received:	10/01/04
Basis:	dry	Analyzed:	10/04/04

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.1	0.6
4-Chlorotoluene	ND	5.1	0.6
tert-Butylbenzene	ND	5.1	0.5
1,2,4-Trimethylbenzene	ND	5.1	0.8
sec-Butylbenzene	ND	5.1	0.7
para-Isopropyl Toluene	ND	5.1	0.7
1,3-Dichlorobenzene	ND	5.1	0.6
1,4-Dichlorobenzene	ND	5.1	0.6
n-Butylbenzene	ND	5.1	0.9
1,2-Dichlorobenzene	ND	5.1	0.4
1,2-Dibromo-3-Chloropropane	ND	5.1	1.5
1,2,4-Trichlorobenzene	ND	5.1	0.9
Hexachlorobutadiene	ND	5.1	1.1
Naphthalene	ND	5.1	0.8
1,2,3-Trichlorobenzene	ND	5.1	0.6

Surrogate	%REC	Limits
Dibromofluoromethane	102	59-113
1,2-Dichloroethane-d4	107	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	97	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC266727	Diln Fac:	1.000
Matrix:	Soil	Batch#:	95125
Units:	ug/Kg	Analyzed:	10/04/04

Analyte	Result	RL	MDL
Freon 12	ND	10	0.5
Chloromethane	ND	10	0.8
Vinyl Chloride	ND	10	0.8
Bromomethane	ND	10	1.4
Chloroethane	ND	10	0.6
Trichlorofluoromethane	ND	5.0	0.8
Acetone	ND	20	1.7
Freon 113	ND	5.0	0.8
1,1-Dichloroethene	ND	5.0	0.7
Methylene Chloride	ND	20	0.4
Carbon Disulfide	ND	5.0	4.0
MTBE	ND	5.0	0.4
trans-1,2-Dichloroethene	ND	5.0	0.5
Vinyl Acetate	ND	50	0.7
1,1-Dichloroethane	ND	5.0	0.5
2-Butanone	ND	10	2.0
cis-1,2-Dichloroethene	ND	5.0	0.8
2,2-Dichloropropane	ND	5.0	0.8
Chloroform	ND	5.0	0.7
Bromochloromethane	ND	5.0	0.6
1,1,1-Trichloroethane	ND	5.0	1.0
1,1-Dichloropropene	ND	5.0	0.7
Carbon Tetrachloride	ND	5.0	0.6
1,2-Dichloroethane	ND	5.0	0.5
Benzene	ND	5.0	0.6
Trichloroethene	ND	5.0	0.5
1,2-Dichloropropane	ND	5.0	1.0
Bromodichloromethane	ND	5.0	0.7
Dibromomethane	ND	5.0	0.6
4-Methyl-2-Pentanone	ND	10	1.6
cis-1,3-Dichloropropene	ND	5.0	0.5
Toluene	ND	5.0	0.5
trans-1,3-Dichloropropene	ND	5.0	0.8
1,1,2-Trichloroethane	ND	5.0	0.8
2-Hexanone	ND	10	0.8
1,3-Dichloropropane	ND	5.0	0.5
Tetrachloroethene	ND	5.0	0.6
Dibromochloromethane	ND	5.0	0.5
1,2-Dibromoethane	ND	5.0	0.4
Chlorobenzene	ND	5.0	0.6
1,1,1,2-Tetrachloroethane	ND	5.0	0.6
Ethylbenzene	ND	5.0	0.4
m,p-Xylenes	ND	5.0	1.2
o-Xylene	ND	5.0	0.3
Styrene	ND	5.0	0.3
Bromoform	ND	5.0	0.8
Isopropylbenzene	ND	5.0	0.7
1,1,2,2-Tetrachloroethane	ND	5.0	1.0
1,2,3-Trichloropropane	ND	5.0	1.5
Propylbenzene	ND	5.0	0.7
Bromobenzene	ND	5.0	0.9
1,3,5-Trimethylbenzene	ND	5.0	0.7
2-Chlorotoluene	ND	5.0	0.6
4-Chlorotoluene	ND	5.0	0.6

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC266727	Diln Fac:	1.000
Matrix:	Soil	Batch#:	95125
Units:	ug/Kg	Analyzed:	10/04/04

Analyte	Result	RL	MDL
tert-Butylbenzene	ND	5.0	0.5
1,2,4-Trimethylbenzene	ND	5.0	0.8
sec-Butylbenzene	ND	5.0	0.7
para-Isopropyl Toluene	ND	5.0	0.7
1,3-Dichlorobenzene	ND	5.0	0.6
1,4-Dichlorobenzene	ND	5.0	0.6
n-Butylbenzene	ND	5.0	0.9
1,2-Dichlorobenzene	ND	5.0	0.4
1,2-Dibromo-3-Chloropropane	ND	5.0	1.5
1,2,4-Trichlorobenzene	ND	5.0	0.8
Hexachlorobutadiene	ND	5.0	1.1
Naphthalene	ND	5.0	0.8
1,2,3-Trichlorobenzene	ND	5.0	0.6

Surrogate	%REC	Limits
Dibromofluoromethane	100	59-113
1,2-Dichloroethane-d4	106	70-121
Toluene-d8	100	84-138
Bromofluorobenzene	93	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC266726	Diln Fac:	1.000
Matrix:	Soil	Batch#:	95125
Units:	ug/Kg	Analyzed:	10/04/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	22.31	89	65-135
Benzene	25.00	24.51	98	65-135
Trichloroethene	25.00	24.22	97	65-135
Toluene	25.00	26.22	105	65-135
Chlorobenzene	25.00	23.54	94	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	94	59-113
1,2-Dichloroethane-d4	99	70-121
Toluene-d8	104	84-138
Bromofluorobenzene	89	59-113

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9259
MSS Lab ID:	175042-001	Batch#:	95125
Matrix:	Soil	Sampled:	10/01/04
Units:	ug/Kg	Received:	10/04/04
Basis:	as received	Analyzed:	10/04/04

Type: MS Lab ID: QC266784

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6500	23.15	23.35	101	65-135
Benzene	<0.5300	23.15	23.85	103	65-135
Trichloroethene	<0.5000	23.15	23.59	102	65-135
Toluene	<0.4400	23.15	23.04	100	65-135
Chlorobenzene	<0.5400	23.15	21.03	91	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	105	59-113
1,2-Dichloroethane-d4	113	70-121
Toluene-d8	101	84-138
Bromofluorobenzene	93	59-113

Type: MSD Lab ID: QC266785

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	23.15	21.98	95	65-135	6	35
Benzene	23.15	23.12	100	65-135	3	35
Trichloroethene	23.15	22.16	96	65-135	6	35
Toluene	23.15	22.02	95	65-135	5	35
Chlorobenzene	23.15	20.52	89	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	59-113
1,2-Dichloroethane-d4	104	70-121
Toluene-d8	100	84-138
Bromofluorobenzene	95	59-113

RPD= Relative Percent Difference

Data File: \\GCHSSERVER\DD\chem\MSVOA02.i\092104.b\BIL06.D MS 8260/GCX WAL TUNE

Date : 21-SEP-2004 15:19

Client ID: bfb tune std

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

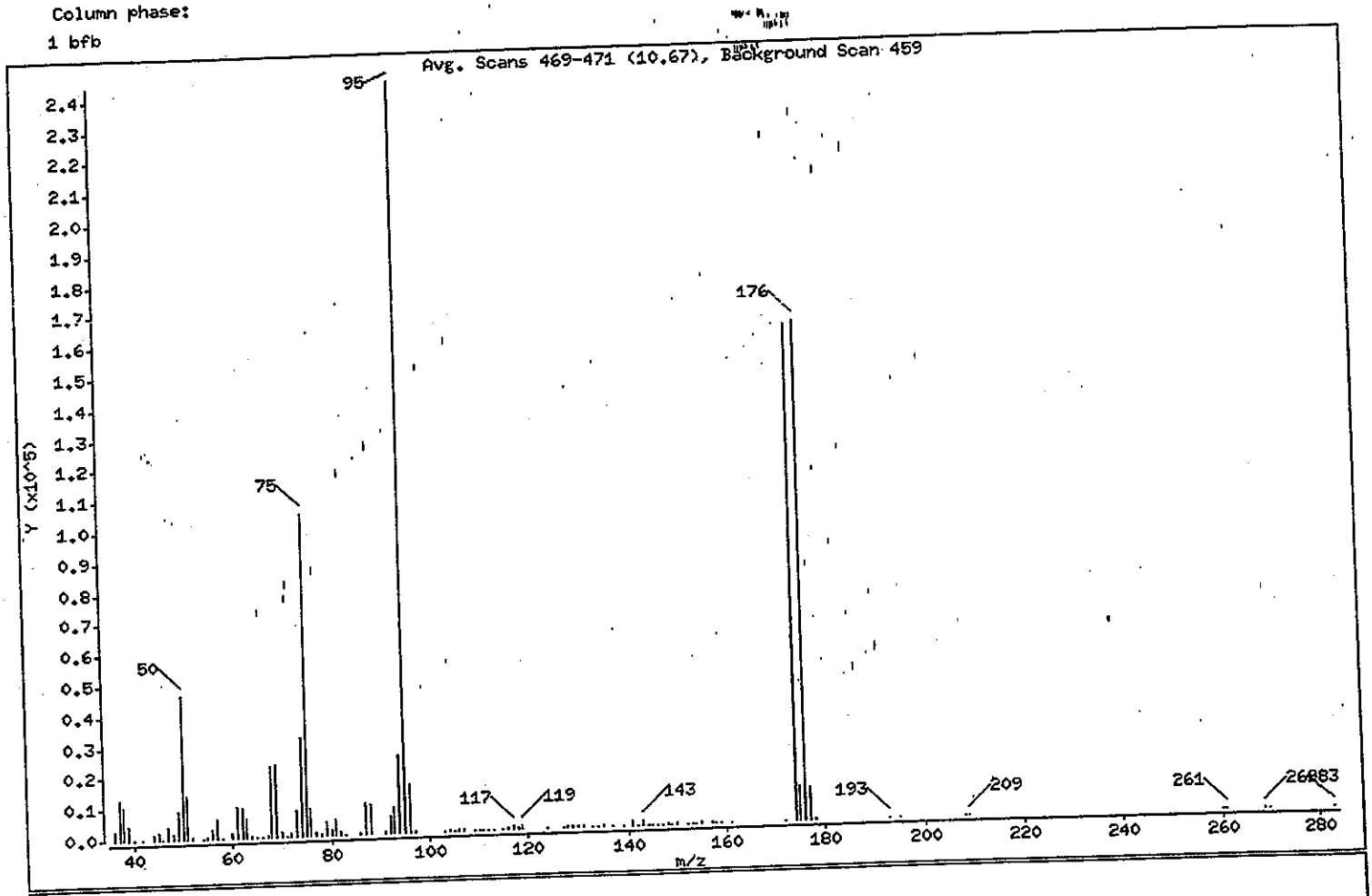
Column phase:

1 bfb

Instrument: MSVOA02.i

Operator: AJA

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.02
75	30.00 - 60.00% of mass 95	42.87
96	5.00 - 9.00% of mass 95	6.54
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	66.24
175	5.00 - 9.00% of mass 174	4.68 (7.07)
176	95.01 - 100.99% of mass 174	66.55 (100.47)
177	5.00 - 9.00% of mass 176	4.42 (6.63)

09/22/04

9/22/04

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\100404.b\BJ402.D

Date : 04-OCT-2004 09:09

Client ID: bfb tune std

Instrument: MSVOA02.i

Sample Info: BFB,04WS1238

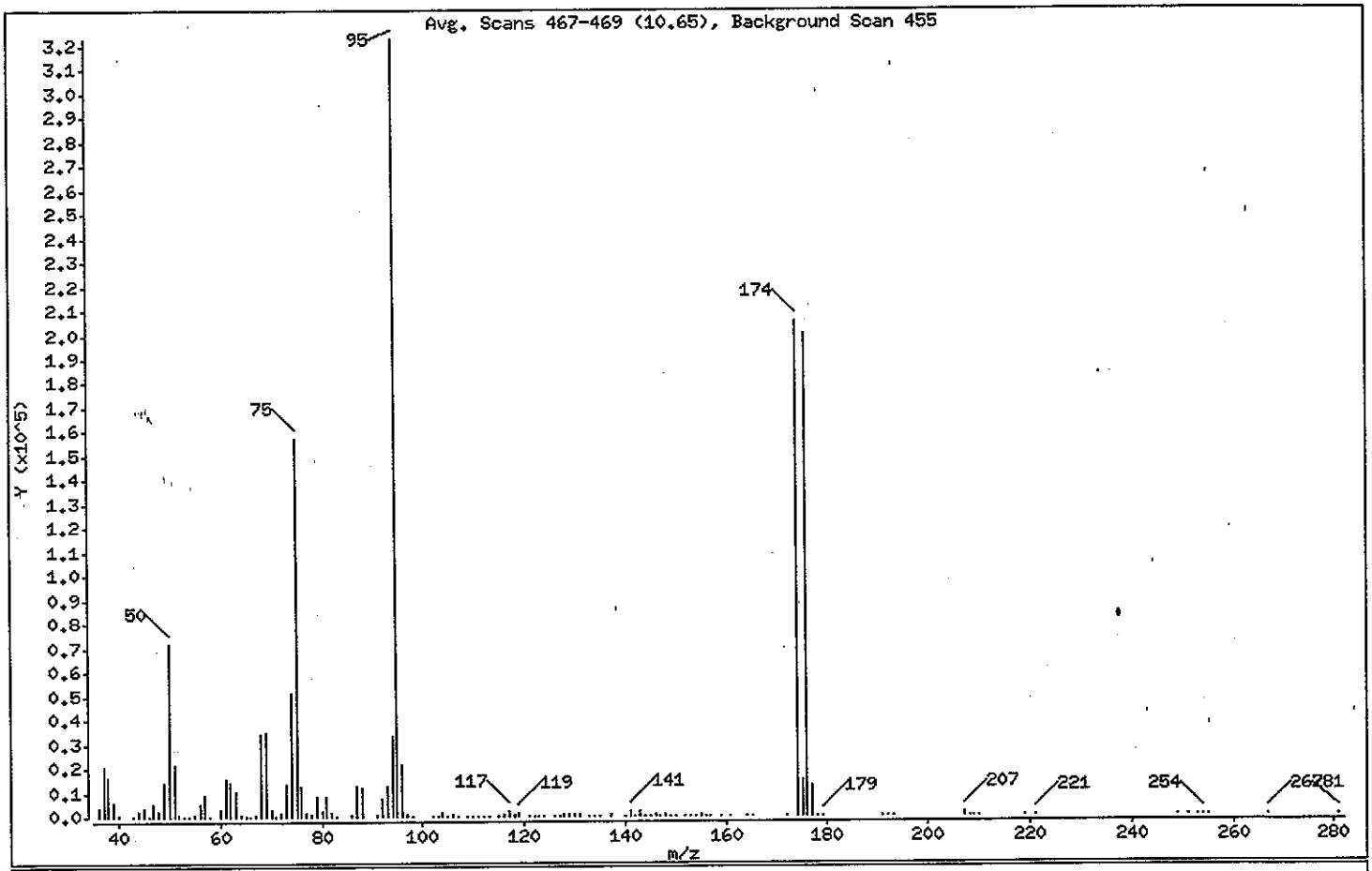
Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.34
75	30.00 - 60.00% of mass 95	48.85
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	63.66
175	5.00 - 9.00% of mass 174	4.69 (7.37)
176	95.01 - 100.99% of mass 174	62.09 (97.54)
177	5.00 - 9.00% of mass 176	3.85 (6.20)

10/4/04

MS VOA 2 8260/60X S ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414382147001 Name: 826GOX02 Type: SOIL Date: 21-SEP-2004 18:32 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	bil11	414382147011	5PPB	21-SEP-2004 18:32	04WS1412 (50000X), 04SS331 (100000X), 04WS1580 (5000X)
2	bil12	414382147012	10PPB	21-SEP-2004 19:06	04WS1412 (25000X), 04SS331 (50000X), 04WS1580 (5000X)
3	bil13	414382147013	20PPB	21-SEP-2004 19:39	04WS1412 (12500X), 04SS331 (25000X), 04WS1580 (5000X)
4	bil14	414382147014	50PPB	21-SEP-2004 20:12	04WS1412 (5000X), 04SS331 (10000X), 04WS1580 (5000X)
5	bil15	414382147015	60PPB	21-SEP-2004 20:45	04WS1412 (4167X), 04SS331 (8333X), 04WS1580 (5000X)
6	bil16	414382147016	75PPB	21-SEP-2004 21:19	04WS1412 (3333X), 04SS331 (6667X), 04WS1580 (5000X)
7	bil17	414382147017	100PPB	21-SEP-2004 21:52	04WS1412 (2500X), 04SS331 (5000X), 04WS1580 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.3801m	0.7169	0.5398	0.9466	0.9176	0.8996	0.8671	LINR	R	3.446669	1.070334		ug/L	0.7525	0.992	0.0500	0.99	15	
Chloromethane	1.1451	1.2319	1.0788	1.2559	1.2076	1.1639	1.0284m	AVRG	R		0.862980		ug/L	1.1588	7	0.1000	0.99	15	
Vinyl Chloride	0.6254	0.8044	0.6191	0.8783	0.8640	0.8355	0.8364	AVRG	R		1.281334		ug/L	0.7804	14	0.0500	0.99	15	
Bromomethane	0.3885	0.3945	0.3741	0.4237	0.4156	0.4201	0.4204	AVRG	R		2.467545		ug/L	0.4053	5	0.0500	0.99	15	
Chloroethane	0.3928	0.4201	0.3492	0.4310	0.4217	0.4139	0.4116	AVRG	R		2.464457		ug/L	0.4058	7	0.0500	0.99	15	
Trichlorofluoromethane	0.4119	0.6787	0.5054	0.8181	0.7919	0.8086	0.8105	LINR	R	3.784515	1.178392		ug/L	0.6893	0.996	0.0500	0.99	15	
Acetone		0.2958	0.2165	0.2127	0.1836	0.1962	0.2026	LINR	R	-2.92440	5.202803		ug/L	0.2179	0.991	0.0500	0.99	15	
Freon 113	0.3052	0.3250	0.3461	0.4277	0.4293	0.4288	0.4409	AVRG	R		2.589641		ug/L	0.3862	15	0.0500	0.99	15	
1,1-Dichloroethene	0.3509	0.3772	0.3710	0.4283	0.4348	0.4330	0.4428	AVRG	R		2.466507		ug/L	0.4054	9	0.0500	0.99	15	
Methylene Chloride	0.6366	0.7822	0.6384	0.5962	0.5824	0.5750	0.5736	AVRG	R		1.596556		ug/L	0.6263	12	0.0500	0.99	15	
Carbon Disulfide	1.4056	1.5404	1.4590	1.6602	1.6400	1.6354	1.6397	AVRG	R		0.637506		ug/L	1.5686	7	0.0500	0.99	15	
MTBE	1.2629	1.4661	1.3045	1.3820	1.2884	1.3243	1.3522	AVRG	R		0.746235		ug/L	1.3401	5	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4213	0.5058	0.4601	0.4999	0.4913	0.4977	0.4957	AVRG	R		2.076063		ug/L	0.4817	6	0.0500	0.99	15	
Vinyl Acetate	1.2863	1.5010	1.3394	1.4233	1.3555	1.3816	1.4036	AVRG	R		0.722343		ug/L	1.3844	5	0.0500	0.99	15	
1,1-Dichloroethane	0.8271	0.9372	0.8611	0.9185	0.8931	0.8898	0.8872	AVRG	R		1.126507		ug/L	0.8877	4	0.1000	0.99	15	
2-Butanone		0.3764	0.3240	0.3550	0.3034	0.3301	0.3439	AVRG	R		2.951572		ug/L	0.3388	8	0.0500	0.99	15	
2,2-Dichloropropane	0.5339	0.6053	0.5631	0.6252	0.6237	0.6201	0.6323	AVRG	R		1.665255		ug/L	0.6005	6	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.4722	0.5387	0.5071	0.5421	0.5239	0.5376	0.5362	AVRG	R		1.913791		ug/L	0.5225	5	0.0500	0.99	15	

Flags used: m=manual integration for incorrect integration by Target. ICAL-Good (No 2-Clove: NS) ICV-(FIB 1 [illegible] Cyclohexanone ✓) [illegible] 9/22/04

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

[illegible] 09/22/04

[illegible] 9/22/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414382147001 Name: 826GOX02 Type: SOIL Date: 21-SEP-2004 18:32 Inj. Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	Units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
															r^2				
Chloroform	0.7140	0.8278	0.7771	0.8054	0.7957	0.7900	0.7939	AVRG	R		1.271838		ug/L	0.7863	5	0.0500	0.99	15	
Bromochloromethane	0.2345	0.2634	0.2495	0.2663	0.2604	0.2645	0.2697	AVRG	R		3.870874		ug/L	0.2583	5	0.0500	0.99	15	
1,1,1-Trichloroethane	0.5023	0.5704	0.5476	0.6130	0.6030	0.6020	0.6135	AVRG	R		1.727686		ug/L	0.5788	7	0.0500	0.99	15	
1,1-Dichloropropene	0.3094	0.3529	0.3532	0.3962	0.3836	0.3916	0.3848	AVRG	R		2.721905		ug/L	0.3674	8	0.0500	0.99	15	
Carbon Tetrachloride	0.2348	0.2632	0.2676	0.3275	0.3195	0.3176	0.3208	AVRG	R		3.413097		ug/L	0.2930	13	0.0500	0.99	15	
1,2-Dichloroethane	0.3352	0.3553	0.3402	0.3556	0.3364	0.3423	0.3414	AVRG	R		2.908886		ug/L	0.3438	2	0.0500	0.99	15	
Benzene	1.0789	1.2225	1.1428	1.2238	1.1898	1.1866	1.1867	AVRG	R		0.850430		ug/L	1.1759	4	0.0500	0.99	15	
Trichloroethene	0.2648	0.2956	0.2845	0.2942	0.2889	0.2938	0.2934	AVRG	R		3.473590		ug/L	0.2879	4	0.0500	0.99	15	
1,2-Dichloropropane	0.3224	0.3548	0.3411	0.3518	0.3347	0.3407	0.3440	AVRG	R		2.929465		ug/L	0.3414	3	0.0500	0.99	15	
Bromodichloromethane	0.3472	0.3734	0.3641	0.3785	0.3670	0.3725	0.3746	AVRG	R		2.716070		ug/L	0.3682	3	0.0500	0.99	15	
Dibromomethane	0.1763	0.2155	0.1995	0.2142	0.1994	0.2050	0.2079	AVRG	R		4.936623		ug/L	0.2026	7	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.4462	0.4142	0.4516	0.3968	0.4364	0.4381	AVRG	R		2.322653		ug/L	0.4305	5	0.0500	0.99	15	
Tetramethyl THF	0.7193	0.7869	0.7824	0.8249	0.7649	0.7225m	0.7942	AVRG	R		1.297464		ug/L	0.7707	5	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4253	0.4761	0.4630	0.4921	0.4748	0.4546m	0.4817	AVRG	R		2.142242		ug/L	0.4668	5	0.0500	0.99	15	
Toluene	0.7133	0.7827	0.7817	0.8303	0.8030	0.7985	0.7951	AVRG	R		1.271679		ug/L	0.7864	5	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.3809	0.4105	0.4175	0.4374	0.4099	0.4164	0.4178	AVRG	R		2.421742		ug/L	0.4129	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1345	0.1456	0.1390	0.1493	0.1401	0.1448	0.1453	AVRG	R		7.009987		ug/L	0.1427	4	0.0500	0.99	15	
2-Hexanone		0.3668	0.3366	0.3702	0.3256	0.3610	0.3739	AVRG	R		2.811518		ug/L	0.3557	6	0.0500	0.99	15	
1,3-Dichloropropane	0.4674	0.4988	0.4819	0.5039	0.4846	0.4960	0.5061	AVRG	R		2.035606		ug/L	0.4913	3	0.0500	0.99	15	
Tetrachloroethene	0.2668	0.2898	0.2942	0.3321	0.3243	0.3277	0.3368	AVRG	R		3.223251		ug/L	0.3102	9	0.0500	0.99	15	
Dibromochloromethane	0.3043	0.3183	0.3009	0.3220	0.3129	0.3195	0.3308	AVRG	R		3.169120		ug/L	0.3155	3	0.0500	0.99	15	
1,2-Dibromoethane	0.2799	0.2963	0.2938	0.3078	0.2886	0.2879	0.3051	AVRG	R		3.399057		ug/L	0.2942	3	0.0500	0.99	15	
Chlorobenzene	0.9382	0.9900	0.9715	1.0310	1.0135	1.0057	1.0199	AVRG	R		1.004333		ug/L	0.9957	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.2476	0.2834	0.2726	0.2847	0.2813	0.2784	0.2898	AVRG	R		3.612452		ug/L	0.2768	5	0.0500	0.99	15	
Ethylbenzene	1.5039	1.6470	1.6289	1.7343	1.7217	1.7040	1.6901	AVRG	R		0.601895		ug/L	1.6614	5	0.0500	0.99	15	
m,p-Xylenes	0.6240	0.6817	0.6688	0.7077	0.7044	0.6899	0.6895	AVRG	R		1.468750		ug/L	0.6809	4	0.0500	0.99	15	
o-Xylene	0.6047	0.6638	0.6635	0.6902	0.6822	0.6763	0.6619	AVRG	R		1.507792		ug/L	0.6632	4	0.0500	0.99	15	
Styrene	1.0694	1.1463	1.1723	1.2042	1.1952	1.1782	1.1572	AVRG	R		0.861777		ug/L	1.1604	4	0.0500	0.99	15	
Bromoform	0.2033	0.2163	0.2124	0.2338	0.2172	0.2316	0.2403	AVRG	R		4.502033		ug/L	0.2221	6	0.1000	0.99	15	
Isopropylbenzene	2.9878	3.3514	3.2289	3.5419	3.5974	3.5436	3.5692	AVRG	R		0.293870		ug/L	3.4029	7	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	0.8658	0.9104	0.8384	0.9075	0.8793	0.9038	0.9648	AVRG	R		1.116436		ug/L	0.8957	4	0.3000	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414382147001 Name: 826GOX02 Type: SOIL Date: 21-SEP-2004 18:32 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
1,2,3-Trichloropropane	0.2317	0.2448	0.2253	0.2394	0.2369	0.2378	0.2517	AVRG	R		4.197799		ug/L	0.2382	4	0.0500	0.99	15	
Propylbenzene	3.6423	4.1118	3.9287	4.2397	4.3136	4.1612	4.2896	AVRG	R		0.244014		ug/L	4.0981	6	0.0500	0.99	15	
Bromobenzene	0.7813	0.8451	0.7986	0.8622	0.8570	0.8462	0.8723	AVRG	R		1.193987		ug/L	0.8375	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.2840	2.6618	2.5261	2.7415	2.6963	2.7143	2.7343	AVRG	R		0.381299		ug/L	2.6226	6	0.0500	0.99	15	
2-Chlorotoluene	2.5541	2.8384	2.6516	2.7981	2.8161	2.7317	2.7844	AVRG	R		0.365071		ug/L	2.7392	4	0.0500	0.99	15	
4-Chlorotoluene	2.4050	2.6190	2.4648	2.6027	2.5755	2.5870	2.6033	AVRG	R		0.391998		ug/L	2.5510	3	0.0500	0.99	15	
tert-Butylbenzene	1.8922	2.2048	2.1098	2.3492	2.3887	2.3648	2.3951	AVRG	R		0.445728		ug/L	2.2435	8	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.1011	2.3586	2.3018	2.5196	2.4612	2.4733	2.5063	AVRG	R		0.418613		ug/L	2.3888	6	0.0500	0.99	15	
sec-Butylbenzene	2.9892	3.5331	3.4492	3.8829	3.8495	3.8513	3.8853	AVRG	R		0.275153		ug/L	3.6343	9	0.0500	0.99	15	
para-Isopropyl Toluene	2.2187	2.6124	2.4938	2.7865	2.7577	2.7740	2.8215	AVRG	R		0.379105		ug/L	2.6378	8	0.0500	0.99	15	
1,3-Dichlorobenzene	1.4105	1.5501	1.4720	1.5772	1.5793	1.5494	1.5666	AVRG	R		0.653891		ug/L	1.5293	4	0.0500	0.99	15	
1,4-Dichlorobenzene	1.4176	1.5782	1.5138	1.5988	1.5647	1.5695	1.5927	AVRG	R		0.646046		ug/L	1.5479	4	0.0500	0.99	15	
n-Butylbenzene	1.9022	2.2057	2.1150	2.3968	2.3671	2.4135	2.4499	AVRG	R		0.441639		ug/L	2.2643	9	0.0500	0.99	15	
1,2-Dichlorobenzene	1.2956	1.4713	1.4277	1.4795	1.4651	1.4633	1.4892	AVRG	R		0.693636		ug/L	1.4417	5	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1915	0.1804	0.1702	0.1740	0.1586	0.1716	0.1816	AVRG	R		5.701076		ug/L	0.1754	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.6533	0.7137	0.6976	0.7702	0.7410	0.7544	0.7600	AVRG	R		1.375203		ug/L	0.7272	6	0.0500	0.99	15	
Hexachlorobutadiene	0.3596	0.4372	0.4264	0.4753	0.4845	0.4790	0.4858	AVRG	R		2.223800		ug/L	0.4497	10	0.0500	0.99	15	
Naphthalene	1.5086	1.5926	1.5736	1.6997	1.5458	1.6563	1.6800	AVRG	R		0.621858		ug/L	1.6081	4	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.6059	0.6866	0.6732	0.7279	0.7047	0.7341	0.7303	AVRG	R		1.439522		ug/L	0.6947	7	0.0500	0.99	15	
tert-Butyl Alcohol (TBA)	0.0733	0.0839	0.0656	0.0775	0.0646	0.0723	0.0753	AVRG	R		13.65790		ug/L	0.0732	9	0.0050	0.99	15	
Isopropyl Ether (DIPE)	1.8784	2.0920	2.0115	2.0937	2.0514	2.0453	2.0786	AVRG	R		0.491196		ug/L	2.0358	4	0.0500	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.5050	1.6902	1.5651	1.6542	1.5808	1.6139	1.6268	AVRG	R		0.622999		ug/L	1.6051	4	0.0500	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.8124	0.8753	0.8729	0.9086	0.8577	0.8677	0.8718	AVRG	R		1.153892		ug/L	0.8666	3	0.0500	0.99	15	
Cyclohexanone		0.0787	0.0550	0.0688	0.0677	0.0597	0.0562	AVRG	R		15.54066		ug/L	0.0643	14	0.0050	0.99	15	
Ethanol	0.0110	0.0122	0.0104	0.0114	0.0107	0.0111	0.0117	AVRG	R		89.19958		ug/L	0.0112	5	5.0E-4	0.99	15	
Isopropanol	0.0607	0.0639	0.0506	0.0582	0.0503	0.0539	0.0565	AVRG	R		17.76146		ug/L	0.0563	9	0.0050	0.99	15	
Tetrahydrofuran	0.2146	0.2269	0.1907	0.2064	0.1786	0.1948	0.1984	AVRG	R		4.962997		ug/L	0.2015	8	0.0050	0.99	15	
Dibromofluoromethane	0.4929	0.5167	0.5028	0.4935	0.4955	0.4977	0.5038	AVRG	R		1.998381		ug/L	0.5004	2	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.2801	0.2911	0.2852	0.2861	0.2730	0.2734	0.2680	AVRG	R		3.577052		ug/L	0.2796	3	0.0500	0.99	15	
Trifluorotoluene	0.3872	0.3819	0.4135	0.4885	0.4785	0.4833	0.4884	AVRG	R		2.242670		ug/L	0.4459	11	0.0500	0.99	15	
Toluene-d8	1.0712	1.0712	1.0824	1.1074	1.0839	1.0800	1.0694	AVRG	R		0.925253		ug/L	1.0808	1	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414382147001 Name: 826GOX02 Type: SOIL Date: 21-SEP-2004 18:32 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MXRSD	Flags
Bromofluorobenzene	1.1754	1.1941	1.1483	1.1502	1.1801	1.1667	1.1847	AVRG R		0.853717		ug/L	1.1713	1	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL11.D
Report Date: 22-Sep-2004 09:37

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-SEP-2004 18:32 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1412,0.002/100,04SS331,0.001/100
Misc Info : 5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\826GOX02.m
Meth Date : 22-Sep-2004 09:36 chemist Quant Type: ISTD
Cal Date : 21-SEP-2004 18:32 Cal File: BIL11.D
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.958	4.958	(0.418)	25818	5.00000	5.4806(M)
2 Chloromethane	50	5.450	5.450	(0.459)	77784	5.00000	4.9408
3 Vinyl Chloride	62	5.705	5.705	(0.481)	42484	5.00000	4.0068
4 Bromomethane	94	6.483	6.483	(0.546)	26388	5.00000	4.7927
5 Chloroethane	64	6.689	6.689	(0.564)	26682	5.00000	4.8400
6 Trichlorofluoromethane	101	7.142	7.142	(0.602)	27978	5.00000	6.2112
7 Ethanol	45	7.506	7.506	(0.633)	74767	500.000	490.8916
8 Freon 113	101	8.057	8.057	(0.679)	20734	5.00000	3.9521
9 1,1-Dichloroethene	96	8.165	8.165	(0.688)	23835	5.00000	4.3272
10 Acetone	43	8.303	8.303	(0.700)	22917	5.00000	5.8518
11 Isopropanol	45	8.431	8.431	(0.711)	41259	50.0000	53.9399
12 Carbon Disulfide	76	8.618	8.618	(0.726)	95481	5.00000	4.4803
13 Methylene Chloride	84	9.070	9.070	(0.764)	43247	5.00000	5.0822
14 tert-Butyl Alcohol (TBA)	59	9.100	9.100	(0.767)	49759	50.0000	50.0228
15 MTBE	73	9.385	9.385	(0.791)	85786	5.00000	4.7119
16 trans-1,2-Dichloroethene	96	9.464	9.464	(0.798)	28621	5.00000	4.3735
17 Isopropyl Ether (DIPE)	45	10.103	10.103	(0.852)	127600	5.00000	4.6133
18 Vinyl Acetate	43	10.182	10.182	(0.858)	87280	5.00000	4.6458
19 1,1-Dichloroethane	63	10.221	10.221	(0.862)	56186	5.00000	4.6588
20 Ethyl tert-Butyl Ether (ETBE)	59	10.684	10.684	(0.900)	102235	5.00000	4.6881
21 2-Butanone	43	11.146	11.146	(0.939)	23838	5.00000	5.1788
22 2,2-Dichloropropane	77	11.136	11.136	(0.939)	36267	5.00000	4.4453

9/22/04

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104 [illegible]BIL11.D
Report Date: 22-Sep-2004 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	11.166	11.166	(0.943)	32076	5.00000	4.5184
24 Bromochloromethane	128	11.569	11.569	(0.975)	15932	5.00000	4.5393
25 Tetrahydrofuran	42	11.569	11.569	(0.975)	145769	50.0000	53.2503
26 Chloroform	83	11.619	11.619	(0.979)	48502	5.00000	4.5405
* 27 Pentafluorobenzene	168	11.865	11.865	(1.000)	679293	50.0000	
$ 28 Dibromofluoromethane	113	11.894	11.894	(1.002)	334804	50.0000	49.2472
29 1,1,1-Trichloroethane	97	11.933	11.933	(1.006)	34124	5.00000	4.3394
30 Carbon Tetrachloride	117	12.150	12.150	(0.928)	25385	5.00000	4.0074
31 1,1-Dichloropropene	75	12.179	12.179	(0.930)	33449	5.00000	4.2110
$ 32 1,2-Dichloroethane-d4	65	12.504	12.504	(0.955)	302763	50.0000	50.0916
33 Benzene	78	12.524	12.524	(0.956)	116629	5.00000	4.5875
34 Methyl tert-Amyl Ether (TAME)	73	12.543	12.543	(0.958)	87820	5.00000	4.6870
35 1,2-Dichloroethane	62	12.632	12.632	(0.965)	36240	5.00000	4.8758
* 36 1,4-Difluorobenzene	114	13.094	13.094	(1.000)	1081017	50.0000	
37 Trichloroethene	95	13.518	13.518	(1.032)	28624	5.00000	4.5988
$ 38 Trifluorotoluene	146	13.921	13.921	(1.063)	41862	5.00000	4.3423
39 1,2-Dichloropropane	63	13.950	13.950	(1.065)	34855	5.00000	4.7227
40 Dibromomethane	93	14.167	14.167	(1.082)	19062	5.00000	4.3524
41 Bromodichloromethane	83	14.334	14.334	(1.095)	37535	5.00000	4.7153
42 Tetramethyl THF	43	14.974	14.974	(1.144)	77757	5.00000	4.6662
43 cis-1,3-Dichloropropene	75	15.023	15.023	(1.147)	45974	5.00000	4.5553
44 4-Methyl-2-Pentanone	43	15.180	15.180	(1.159)	45065	5.00000	4.8412
$ 45 Toluene-d8	98	15.397	15.397	(1.176)	1157980	50.0000	49.5562
46 Toluene	92	15.505	15.505	(1.184)	77105	5.00000	4.5352
47 trans-1,3-Dichloropropene	75	15.879	15.879	(1.213)	41181	5.00000	4.6127
48 2-Chloroethylvinylether NS	63	16.184	16.184	(1.236)	5261	5.00000	4.9960
49 1,1,2-Trichloroethane	85	16.174	16.174	(1.235)	14543	5.00000	4.7152
50 Tetrachloroethene	166	16.322	16.322	(0.925)	25824	5.00000	4.3001
51 2-Hexanone	43	16.450	16.450	(0.932)	35221	5.00000	5.1157
52 1,3-Dichloropropane	76	16.469	16.469	(0.933)	45239	5.00000	4.7574
53 Dibromochloromethane	129	16.784	16.784	(0.951)	29456	5.00000	4.8225
54 1,2-Dibromoethane	107	17.030	17.030	(1.301)	30261	5.00000	4.7575
* 55 Chlorobenzene-d5	117	17.650	17.650	(1.000)	967844	50.0000	
56 Chlorobenzene	112	17.699	17.699	(1.003)	90799	5.00000	4.7111
57 Ethylbenzene	91	17.758	17.758	(1.006)	145553	5.00000	4.5259
58 1,1,1,2-Tetrachloroethane	131	17.797	17.797	(1.008)	23963	5.00000	4.4720
59 m,p-Xylenes	106	17.935	17.935	(1.016)	120780	10.0000	9.1644
60 o-Xylene	106	18.545	18.545	(1.051)	58523	5.00000	4.5586
61 Styrene	104	18.575	18.575	(1.052)	103508	5.00000	4.6078
62 Bromoform	173	18.939	18.939	(1.073)	19675	5.00000	4.5760
63 Isopropylbenzene	105	19.037	19.037	(0.905)	138281	5.00000	4.3901
64 Cyclohexanone	55	19.332	19.332	(0.920)	39218	50.0000	65.8434
$ 65 Bromofluorobenzene	95	19.362	19.362	(0.921)	543993	50.0000	50.1724
66 1,1,2,2-Tetrachloroethane	83	19.539	19.539	(0.929)	40069	5.00000	4.8328
67 Bromobenzene	156	19.628	19.628	(0.934)	36159	5.00000	4.6641
68 Propylbenzene	91	19.637	19.637	(0.934)	166573	5.00000	4.4438
69 1,2,3-Trichloropropane	110	19.657	19.657	(0.935)	10722	5.00000	4.8624
70 2-Chlorotoluene	91	19.854	19.854	(0.944)	118208	5.00000	4.6620
71 1,3,5-Trimethylbenzene	105	19.874	19.874	(0.945)	105710	5.00000	4.3545
72 4-Chlorotoluene	91	20.011	20.011	(0.952)	111310	5.00000	4.7138
73 tert-Butylbenzene	119	20.346	20.346	(0.968)	87577	5.00000	4.2171
74 1,2,4-Trimethylbenzene	105	20.434	20.434	(0.972)	97243	5.00000	4.3977
75 sec-Butylbenzene	105	20.661	20.661	(0.983)	138346	5.00000	4.1124
76 para-Isopropyl Toluene	119	20.828	20.828	(0.991)	102688	5.00000	4.2056

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL11.D
Report Date: 22-Sep-2004 09:37

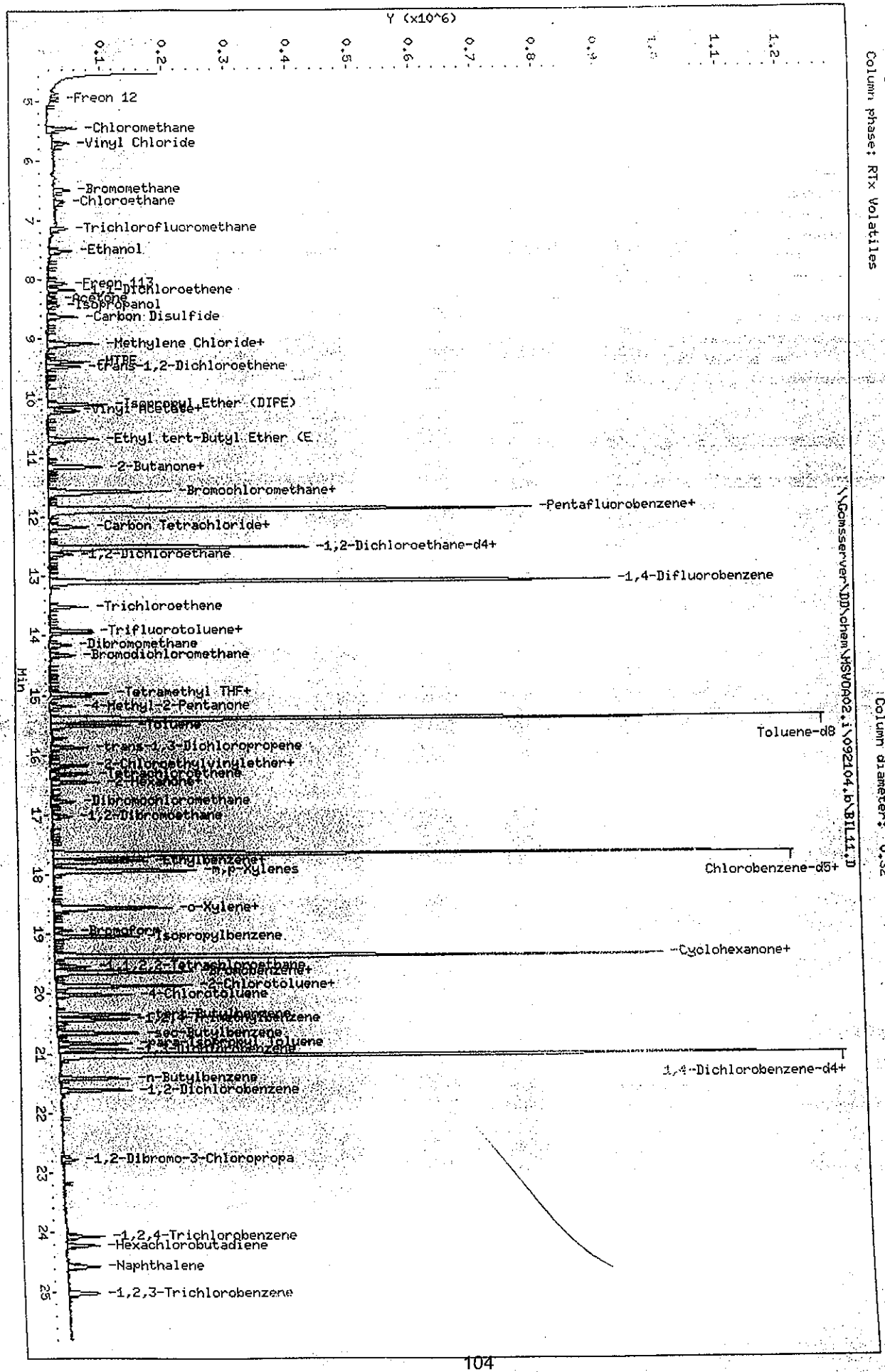
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.936	20.936	(0.996)	65288	5.00000	4.6115
* 78 1,4-Dichlorobenzene-d4	152	21.025	21.025	(1.000)	462820	50.0000	
79 1,4-Dichlorobenzene	146	21.064	21.064	(1.002)	65609	5.00000	4.5791
80 n-Butylbenzene	91	21.408	21.408	(1.018)	88037	5.00000	4.2003
81 1,2-Dichlorobenzene	146	21.615	21.615	(1.028)	59964	5.00000	4.4934
82 1,2-Dibromo-3-Chloropropane	75	22.776	22.776	(1.083)	8862	5.00000	5.4581
83 1,2,4-Trichlorobenzene	180	24.075	24.075	(1.145)	30236	5.00000	4.4920
84 Hexachlorobutadiene	225	24.222	24.222	(1.152)	16643	5.00000	3.9983
85 Naphthalene	128	24.567	24.567	(1.168)	69819	5.00000	4.6905
86 1,2,3-Trichlorobenzene	180	25.019	25.019	(1.190)	28040	5.00000	4.3606

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL11.D
Date : 21-SEP-2004 18:32
Client ID: DYNA P&T
Sample Info: ICAL,04WS1412,0.002/100,04SS331,0.001/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA02.i
Operator: AJA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL12.D
Report Date: 22-Sep-2004 09:37

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-SEP-2004 19:06 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1412,0.004/100,04SS331,0.002/100
Misc Info : 10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\826GOX02.m
Meth Date : 22-Sep-2004 09:37 chemist Quant Type: ISTD
Cal Date : 21-SEP-2004 19:06 Cal File: BIL12.D
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.963	4.963	(0.418)	103856	10.0000	11.1195
2 Chloromethane	50	5.455	5.455	(0.460)	178463	10.0000	10.6306
3 Vinyl Chloride	62	5.701	5.701	(0.481)	116537	10.0000	10.3070
4 Bromomethane	94	6.488	6.488	(0.547)	57147	10.0000	9.7334
5 Chloroethane	64	6.694	6.694	(0.564)	60868	10.0000	10.3542
6 Trichlorofluoromethane	101	7.137	7.137	(0.602)	98322	10.0000	11.7819
7 Ethanol	45	7.511	7.511	(0.633)	376704	1000.00	1087.9760
8 Freon 113	101	8.052	8.052	(0.679)	47079	10.0000	8.4154
9 1,1-Dichloroethene	96	8.160	8.160	(0.688)	54644	10.0000	9.3032
10 Acetone	43	8.308	8.308	(0.701)	42852	10.0000	12.4648
11 Isopropanol	45	8.426	8.426	(0.710)	92617	100.000	113.5480
12 Carbon Disulfide	76	8.623	8.623	(0.727)	223167	10.0000	9.8202
13 Methylene Chloride	84	9.066	9.066	(0.764)	113315	10.0000	12.4876
14 tert-Butyl Alcohol (TBA)	59	9.105	9.105	(0.768)	121562	100.000	114.6019
15 MTBE	73	9.381	9.381	(0.791)	212393	10.0000	10.9402
16 trans-1,2-Dichloroethene	96	9.459	9.459	(0.798)	73279	10.0000	10.5009
17 Isopropyl Ether (DIPE)	45	10.099	10.099	(0.852)	303074	10.0000	10.2757
18 Vinyl Acetate	43	10.187	10.187	(0.859)	217449	10.0000	10.8420
19 1,1-Dichloroethane	63	10.227	10.227	(0.862)	135770	10.0000	10.5571
20 Ethyl tert-Butyl Ether (ETBE)	59	10.689	10.689	(0.901)	244871	10.0000	10.5301
21 2-Butanone	43	11.142	11.142	(0.939)	54526	10.0000	11.1088
22 2,2-Dichloropropane	77	11.142	11.142	(0.939)	87688	10.0000	10.0793

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL12.D
Report Date: 22-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.161	11.161	(0.941)	78047	10.0000	10.3100
	24 Bromochloromethane	128	11.565	11.565	(0.975)	38163	10.0000	10.1967
	25 Tetrahydrofuran	42	11.575	11.575	(0.976)	328736	100.000	112.6163
	26 Chloroform	83	11.624	11.624	(0.980)	119929	10.0000	10.5284
*	27 Pentafluorobenzene	168	11.860	11.860	(1.000)	724369	50.0000	
$	28 Dibromofluoromethane	113	11.889	11.889	(1.002)	374265	50.0000	51.6259
	29 1,1,1-Trichloroethane	97	11.929	11.929	(1.006)	82630	10.0000	9.8540
	30 Carbon Tetrachloride	117	12.145	12.145	(0.928)	61992	10.0000	8.9823
	31 1,1-Dichloropropene	75	12.175	12.175	(0.930)	83124	10.0000	9.6051
$	32 1,2-Dichloroethane-d4	65	12.509	12.509	(0.956)	342894	50.0000	52.0702
	33 Benzene	78	12.519	12.519	(0.956)	287972	10.0000	10.3966
	34 Methyl tert-Amyl Ether (TAME)	73	12.539	12.539	(0.958)	206194	10.0000	10.1005
	35 1,2-Dichloroethane	62	12.627	12.627	(0.965)	83687	10.0000	10.3344
*	36 1,4-Difluorobenzene	114	13.090	13.090	(1.000)	1177784	50.0000	
	37 Trichloroethene	95	13.513	13.513	(1.032)	69629	10.0000	10.2676
$	38 Trifluorotoluene	146	13.916	13.916	(1.063)	89948	10.0000	8.5636
	39 1,2-Dichloropropane	63	13.956	13.956	(1.066)	83577	10.0000	10.3939
	40 Dibromomethane	93	14.162	14.162	(1.082)	50762	10.0000	10.6383
	41 Bromodichloromethane	83	14.330	14.330	(1.095)	87954	10.0000	10.1414
	42 Tetramethyl THF	43	14.979	14.979	(1.144)	185368	10.0000	10.2102
	43 cis-1,3-Dichloropropene	75	15.028	15.028	(1.148)	112149	10.0000	10.1992
	44 4-Methyl-2-Pentanone	43	15.186	15.186	(1.160)	105100	10.0000	10.3631
$	45 Toluene-d8	98	15.402	15.402	(1.177)	1261678	50.0000	49.5579
	46 Toluene	92	15.510	15.510	(1.185)	184382	10.0000	9.9540
	47 trans-1,3-Dichloropropene	75	15.874	15.874	(1.213)	96697	10.0000	9.9413
	48 2-Chloroethylvinylether N/S	63	16.179	16.179	(1.236)	11458	10.0000	9.9869
	49 1,1,2-Trichloroethane	85	16.179	16.179	(1.236)	34308	10.0000	10.2097
	50 Tetrachloroethene	166	16.327	16.327	(0.925)	61147	10.0000	9.3406
	51 2-Hexanone	43	16.445	16.445	(0.931)	77392	10.0000	10.3120
	52 1,3-Dichloropropane	76	16.465	16.465	(0.933)	105250	10.0000	10.1536
	53 Dibromochloromethane	129	16.789	16.789	(0.951)	67173	10.0000	10.0888
	54 1,2-Dibromoethane	107	17.025	17.025	(1.301)	69795	10.0000	10.0713
*	55 Chlorobenzene-d5	117	17.655	17.655	(1.000)	1055024	50.0000	
	56 Chlorobenzene	112	17.694	17.694	(1.002)	208888	10.0000	9.9425
	57 Ethylbenzene	91	17.763	17.763	(1.006)	347524	10.0000	9.9131
	58 1,1,1,2-Tetrachloroethane	131	17.793	17.793	(1.008)	59793	10.0000	10.2367
	59 m,p-Xylenes	106	17.940	17.940	(1.016)	287666	20.0000	20.0236
	60 o-Xylene	106	18.550	18.550	(1.051)	140056	10.0000	10.0080
	61 Styrene	104	18.570	18.570	(1.052)	241866	10.0000	9.8781
	62 Bromoform	173	18.934	18.934	(1.072)	45640	10.0000	9.7378
	63 Isopropylbenzene	105	19.042	19.042	(0.905)	328218	10.0000	9.8487
	64 Cyclohexanone	55	19.338	19.338	(0.920)	77100	100.000	122.3454
$	65 Bromofluorobenzene	95	19.367	19.367	(0.921)	584717	50.0000	50.9710
	66 1,1,2,2-Tetrachloroethane	83	19.534	19.534	(0.929)	89157	10.0000	10.1637
	67 Bromobenzene	156	19.623	19.623	(0.933)	82763	10.0000	10.0901
	68 Propylbenzene	91	19.633	19.633	(0.934)	402685	10.0000	10.0332
	69 1,2,3-Trichloropropane	110	19.662	19.662	(0.935)	23973	10.0000	10.2756
	70 2-Chlorotoluene	91	19.859	19.859	(0.944)	277976	10.0000	10.3621
	71 1,3,5-Trimethylbenzene	105	19.869	19.869	(0.945)	260685	10.0000	10.1495
	72 4-Chlorotoluene	91	20.016	20.016	(0.952)	256490	10.0000	10.2663
	73 tert-Butylbenzene	119	20.351	20.351	(0.968)	215926	10.0000	9.8274
	74 1,2,4-Trimethylbenzene	105	20.430	20.430	(0.971)	230988	10.0000	9.8733
	75 sec-Butylbenzene	105	20.656	20.656	(0.982)	346013	10.0000	9.7214
	76 para-Isopropyl Toluene	119	20.833	20.833	(0.991)	255842	10.0000	9.9036

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL12.D
Report Date: 22-Sep-2004 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.931	20.931	(0.995)	151808	10.0000	10.1359
* 78 1,4-Dichlorobenzene-d4	152	21.030	21.030	(1.000)	489673	50.0000	
79 1,4-Dichlorobenzene	146	21.059	21.059	(1.001)	154560	10.0000	10.1958
80 n-Butylbenzene	91	21.414	21.414	(1.018)	216010	10.0000	9.7410
81 1,2-Dichlorobenzene	146	21.620	21.620	(1.028)	144092	10.0000	10.2055
82 1,2-Dibromo-3-Chloropropane	75	22.771	22.771	(1.083)	17667	10.0000	10.2845
83 1,2,4-Trichlorobenzene	180	24.080	24.080	(1.145)	69894	10.0000	9.8145
84 Hexachlorobutadiene	225	24.228	24.228	(1.152)	42818	10.0000	9.7226
85 Naphthalene	128	24.572	24.572	(1.168)	155973	10.0000	9.9038
86 1,2,3-Trichlorobenzene	180	25.015	25.015	(1.189)	67244	10.0000	9.8840

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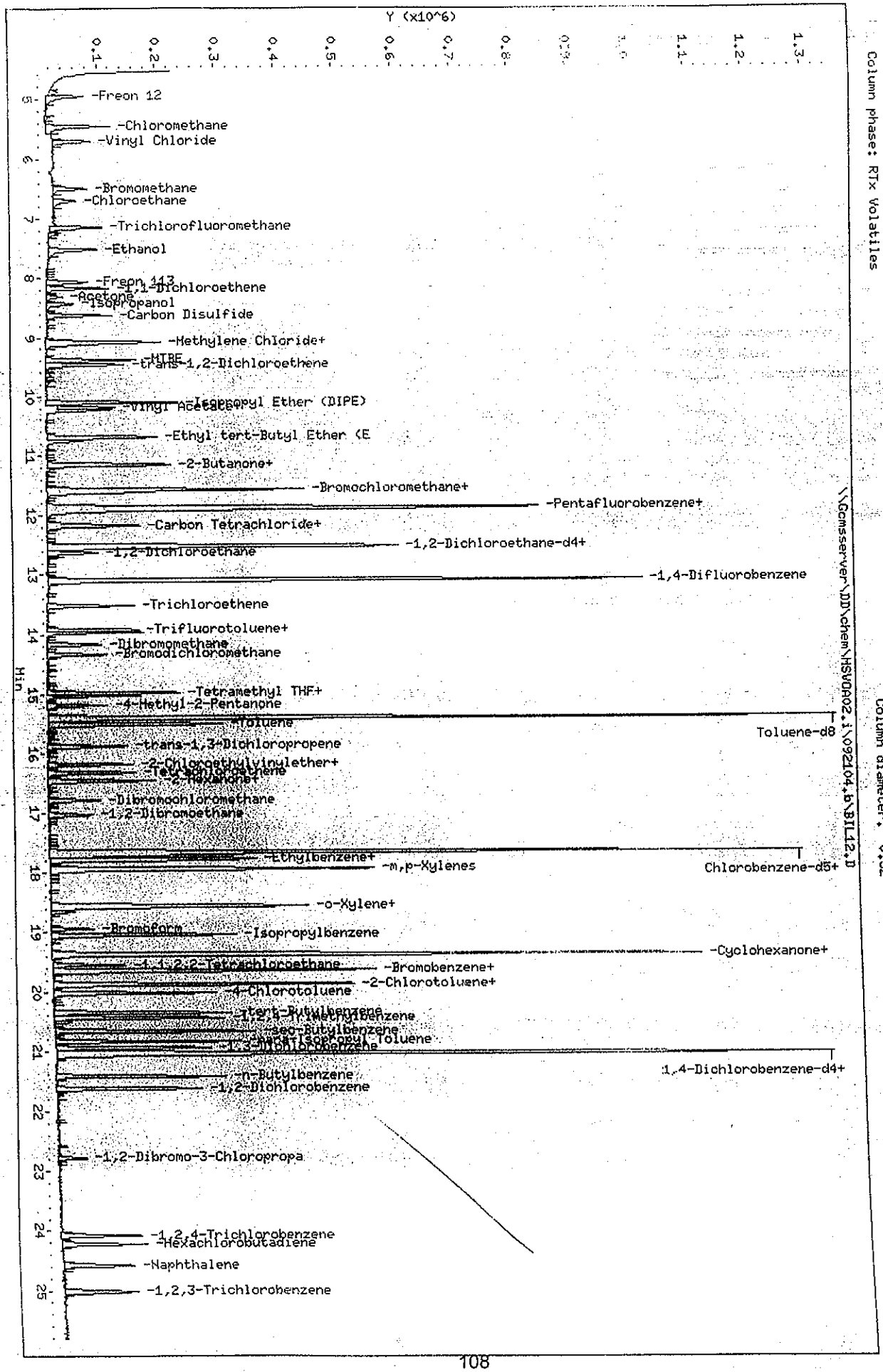
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA02.i
Operator: AJA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL13.D
Report Date: 22-Sep-2004 09:37

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-SEP-2004 19:39 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1412,0.008/100,04SS331,0.004/100
Misc Info : 20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\826GOX02.m
Meth Date : 22-Sep-2004 09:37 chemist Quant Type: ISTD
Cal Date : 21-SEP-2004 19:39 Cal File: BIL13.D
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.961	4.961	(0.418)	147083	20.0000	15.0013
2 Chloromethane	50	5.453	5.453	(0.460)	293954	20.0000	18.6189
3 Vinyl Chloride	62	5.699	5.699	(0.480)	168699	20.0000	15.8653
4 Bromomethane	94	6.486	6.486	(0.547)	101940	20.0000	18.4622
5 Chloroethane	64	6.693	6.693	(0.564)	95164	20.0000	17.2134
6 Trichlorofluoromethane	101	7.136	7.136	(0.601)	137723	20.0000	15.6961
7 Ethanol	45	7.510	7.510	(0.633)	282545	2000.00	1849.8026
8 Freon 113	101	8.061	8.061	(0.679)	94309	20.0000	17.9253
9 1,1-Dichloroethene	96	8.169	8.169	(0.688)	101107	20.0000	18.3036
10 Acetone	43	8.307	8.307	(0.700)	59003	20.0000	19.6069
11 Isopropanol	45	8.425	8.425	(0.710)	137857	200.000	179.7142
12 Carbon Disulfide	76	8.621	8.621	(0.726)	392570	20.0000	18.6025
13 Methylene Chloride	84	9.074	9.074	(0.765)	173948	20.0000	20.3834
14 tert-Butyl Alcohol (TBA)	59	9.103	9.103	(0.767)	178857	200.000	179.2936
15 MTBE	73	9.379	9.379	(0.790)	355476	20.0000	19.4697
16 trans-1,2-Dichloroethene	96	9.458	9.458	(0.797)	125364	20.0000	19.1024
17 Isopropyl Ether (DIPE)	45	10.107	10.107	(0.852)	548121	20.0000	19.7608
18 Vinyl Acetate	43	10.186	10.186	(0.858)	364987	20.0000	19.3506
19 1,1-Dichloroethane	63	10.225	10.225	(0.862)	234631	20.0000	19.3996
20 Ethyl tert-Butyl Ether (ETBE)	59	10.688	10.688	(0.901)	426488	20.0000	19.5015
21 2-Butanone	43	11.140	11.140	(0.939)	88299	20.0000	19.1286
22 2,2-Dichloropropane	77	11.140	11.140	(0.939)	153446	20.0000	18.7547

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL13.D
Report Date: 22-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.160	11.160	(0.940)	138168	20.0000	19.4078
	24 Bromochloromethane	128	11.563	11.563	(0.974)	67985	20.0000	19.3151
	25 Tetrahydrofuran	42	11.573	11.573	(0.975)	519713	200.000	189.3139
	26 Chloroform	83	11.622	11.622	(0.979)	211759	20.0000	19.7673
*	27 Pentafluorobenzene	168	11.868	11.868	(1.000)	681232	50.0000	
$	28 Dibromofluoromethane	113	11.888	11.888	(1.002)	342529	50.0000	50.2401
	29 1,1,1-Trichloroethane	97	11.937	11.937	(1.006)	149211	20.0000	18.9208
	30 Carbon Tetrachloride	117	12.154	12.154	(0.929)	115431	20.0000	18.2636
	31 1,1-Dichloropropene	75	12.173	12.173	(0.930)	152380	20.0000	19.2272
$	32 1,2-Dichloroethane-d4	65	12.508	12.508	(0.956)	307571	50.0000	51.0019
	33 Benzene	78	12.527	12.527	(0.957)	493044	20.0000	19.4375
	34 Methyl tert-Amyl Ether (TAME)	73	12.537	12.537	(0.958)	376601	20.0000	20.1447
	35 1,2-Dichloroethane	62	12.626	12.626	(0.965)	146784	20.0000	19.7934
*	36 1,4-Difluorobenzene	114	13.088	13.088	(1.000)	1078583	50.0000	
	37 Trichloroethene	95	13.511	13.511	(1.032)	122760	20.0000	19.7675
$	38 Trifluorotoluene	146	13.915	13.915	(1.063)	178383	20.0000	18.5453
	39 1,2-Dichloropropane	63	13.954	13.954	(1.066)	147168	20.0000	19.9856
	40 Dibromomethane	93	14.161	14.161	(1.082)	86090	20.0000	19.7014
	41 Bromodichloromethane	83	14.328	14.328	(1.095)	157071	20.0000	19.7766
	42 Tetramethyl THF	43	14.977	14.977	(1.144)	337545	20.0000	20.3022
	43 cis-1,3-Dichloropropene	75	15.027	15.027	(1.148)	199767	20.0000	19.8384
	44 4-Methyl-2-Pentanone	43	15.184	15.184	(1.160)	178699	20.0000	19.2407
$	45 Toluene-d8	98	15.400	15.400	(1.177)	1167446	50.0000	50.0741
	46 Toluene	92	15.509	15.509	(1.185)	337233	20.0000	19.8803
	47 trans-1,3-Dichloropropene	75	15.873	15.873	(1.213)	180123	20.0000	20.2215
	48 2-Chloroethylvinylether—NC	63	16.178	16.178	(1.236)	20708	20.0000	19.7094
	49 1,1,2-Trichloroethane	85	16.178	16.178	(1.236)	59950	20.0000	19.4815
	50 Tetrachloroethene	166	16.325	16.325	(0.925)	117051	20.0000	18.9636
	51 2-Hexanone	43	16.443	16.443	(0.931)	133945	20.0000	18.9287
	52 1,3-Dichloropropane	76	16.463	16.463	(0.933)	191756	20.0000	19.6198
	53 Dibromochloromethane	129	16.788	16.788	(0.951)	119739	20.0000	19.0733
	54 1,2-Dibromoethane	107	17.024	17.024	(1.301)	126755	20.0000	19.9728
*	55 Chlorobenzene-d5	117	17.654	17.654	(1.000)	994756	50.0000	
	56 Chlorobenzene	112	17.703	17.703	(1.003)	386578	20.0000	19.5149
	57 Ethylbenzene	91	17.762	17.762	(1.006)	648160	20.0000	19.6090
	58 1,1,1,2-Tetrachloroethane	131	17.791	17.791	(1.008)	108462	20.0000	19.6939
	59 m,p-Xylenes	106	17.939	17.939	(1.016)	532244	40.0000	39.2927
	60 o-Xylene	106	18.549	18.549	(1.051)	264016	20.0000	20.0089
	61 Styrene	104	18.578	18.578	(1.052)	466452	20.0000	20.2048
	62 Bromoform	173	18.933	18.933	(1.072)	84499	20.0000	19.1211
	63 Isopropylbenzene	105	19.041	19.041	(0.905)	632636	20.0000	18.9772
	64 Cyclohexanone	55	19.336	19.336	(0.920)	107707	200.000	170.8590
$	65 Bromofluorobenzene	95	19.366	19.366	(0.921)	562456	50.0000	49.0147
	66 1,1,2,2-Tetrachloroethane	83	19.543	19.543	(0.929)	164261	20.0000	18.7194
	67 Bromobenzene	156	19.631	19.631	(0.934)	156481	20.0000	19.0715
	68 Propylbenzene	91	19.631	19.631	(0.934)	769750	20.0000	19.1729
	69 1,2,3-Trichloropropane	110	19.661	19.661	(0.935)	44144	20.0000	18.9155
	70 2-Chlorotoluene	91	19.857	19.857	(0.944)	519532	20.0000	19.3603
	71 1,3,5-Trimethylbenzene	105	19.877	19.877	(0.945)	494936	20.0000	19.2636
	72 4-Chlorotoluene	91	20.015	20.015	(0.952)	482933	20.0000	19.3239
	73 tert-Butylbenzene	119	20.349	20.349	(0.968)	413379	20.0000	18.8080
	74 1,2,4-Trimethylbenzene	105	20.428	20.428	(0.971)	450992	20.0000	19.2710
	75 sec-Butylbenzene	105	20.654	20.654	(0.982)	675802	20.0000	18.9809
	76 para-Isopropyl Toluene	119	20.832	20.832	(0.991)	488613	20.0000	18.9081

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL13.D
Report Date: 22-Sep-2004 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.930	20.930	(0.995)	288416	20.0000	19.2508
* 78 1,4-Dichlorobenzene-d4	152	21.028	21.028	(1.000)	489830	50.0000	
79 1,4-Dichlorobenzene	146	21.058	21.058	(1.001)	296595	20.0000	19.5592
80 n-Butylbenzene	91	21.412	21.412	(1.018)	414387	20.0000	18.6808
81 1,2-Dichlorobenzene	146	21.619	21.619	(1.028)	279729	20.0000	19.8058
82 1,2-Dibromo-3-Chloropropane	75	22.780	22.780	(1.083)	33344	20.0000	19.4043
83 1,2,4-Trichlorobenzene	180	24.078	24.078	(1.145)	136682	20.0000	19.1868
84 Hexachlorobutadiene	225	24.216	24.216	(1.152)	83548	20.0000	18.9651
85 Naphthalene	128	24.570	24.570	(1.168)	308311	20.0000	19.5706
86 1,2,3-Trichlorobenzene	180	25.013	25.013	(1.189)	131902	20.0000	19.3818

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL13.D
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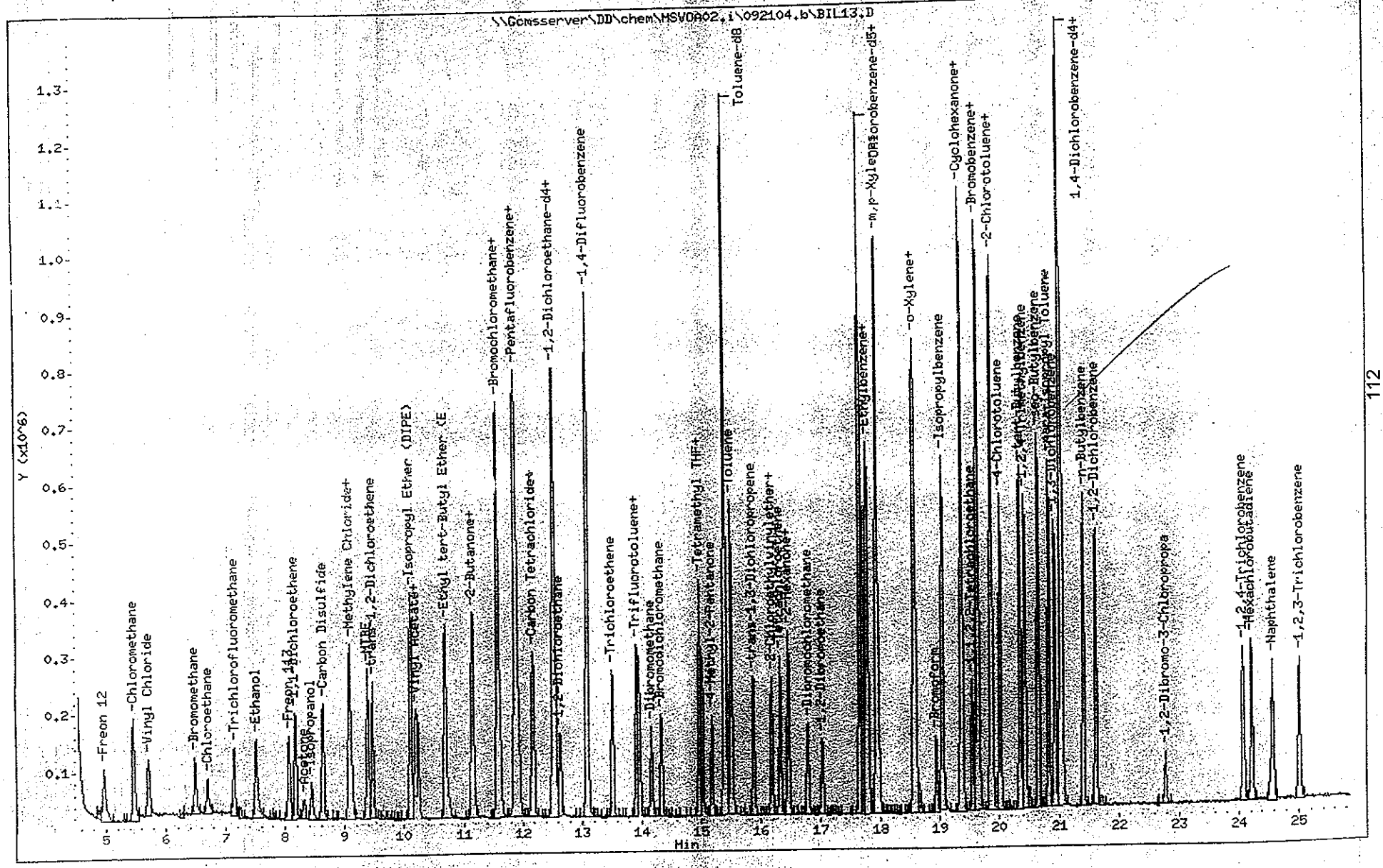
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA02.i
Operator: AJA
Column diameter: 0.32



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Report Date: 22-Sep-2004 09:37

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL14.D
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Inj Date : 21-SEP-2004 20:12 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1412,0.001/5,04SS331,0.0005/5
Misc Info : 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\826GOX02.m
Meth Date : 22-Sep-2004 09:37 chemist Quant Type: ISTD
Cal Date : 21-SEP-2004 20:12 Cal File: BIL14.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.961	4.961	(0.418)	686333	50.0000	54.1077
2 Chloromethane	50	5.453	5.453	(0.459)	910520	50.0000	54.1888
3 Vinyl Chloride	62	5.709	5.709	(0.481)	636771	50.0000	56.2685
4 Bromomethane	94	6.486	6.486	(0.547)	307219	50.0000	52.2797
5 Chloroethane	64	6.693	6.693	(0.564)	312485	50.0000	53.1092
6 Trichlorofluoromethane	101	7.145	7.145	(0.602)	593149	50.0000	51.9874
7 Ethanol	45	7.509	7.509	(0.633)	828017	5000.00	5093.5676
8 Freon 113	101	8.060	8.060	(0.679)	310127	50.0000	55.3858
9 1,1-Dichloroethene	96	8.168	8.168	(0.688)	310506	50.0000	52.8168
10 Acetone	43	8.306	8.306	(0.700)	154189	50.0000	52.3992
11 Isopropanol	45	8.424	8.424	(0.710)	422149	500.000	517.0880
12 Carbon Disulfide	76	8.621	8.621	(0.726)	1203661	50.0000	52.9185
13 Methylene Chloride	84	9.074	9.074	(0.765)	432273	50.0000	47.5951
14 tert-Butyl Alcohol (TBA)	59	9.103	9.103	(0.767)	561640	500.000	529.0076
15 MTBE	73	9.379	9.379	(0.790)	1001999	50.0000	51.5659
16 trans-1,2-Dichloroethene	96	9.467	9.467	(0.798)	362411	50.0000	51.8874
17 Isopropyl Ether (DIPE)	45	10.107	10.107	(0.852)	1517980	50.0000	51.4210
18 Vinyl Acetate	43	10.185	10.185	(0.858)	1031902	50.0000	51.4045
19 1,1-Dichloroethane	63	10.225	10.225	(0.862)	665745	50.0000	51.7359
20 Ethyl tert-Butyl Ether (ETBE)	59	10.687	10.687	(0.901)	1199312	50.0000	51.5275
21 2-Butanone	43	11.140	11.140	(0.939)	257383	50.0000	52.3905
22 2,2-Dichloropropane	77	11.140	11.140	(0.939)	453277	50.0000	52.0552

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL14.D
Report Date: 22-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.159	11.159	(0.940)	393019	50.0000	51.8714
	24 Bromochloromethane	128	11.573	11.573	(0.975)	193051	50.0000	51.5348
	25 Tetrahydrofuran	42	11.573	11.573	(0.975)	1496609	500.000	512.2387
	26 Chloroform	83	11.622	11.622	(0.979)	583895	50.0000	51.2137
*	27 Pentafluorobenzene	168	11.868	11.868	(1.000)	725020	50.0000	
$	28 Dibromofluoromethane	113	11.888	11.888	(1.002)	357799	50.0000	49.3102
	29 1,1,1-Trichloroethane	97	11.937	11.937	(1.006)	444414	50.0000	52.9508
	30 Carbon Tetrachloride	117	12.153	12.153	(0.929)	375206	50.0000	55.8875
	31 1,1-Dichloropropene	75	12.173	12.173	(0.930)	453949	50.0000	53.9233
$	32 1,2-Dichloroethane-d4	65	12.507	12.507	(0.956)	327800	50.0000	51.1718
	33 Benzene	78	12.527	12.527	(0.957)	1402097	50.0000	52.0371
	34 Methyl tert-Amyl Ether (TAME)	73	12.547	12.547	(0.959)	1040959	50.0000	52.4198
	35 1,2-Dichloroethane	62	12.625	12.625	(0.965)	407407	50.0000	51.7192
*	36 1,4-Difluorobenzene	114	13.088	13.088	(1.000)	1145706	50.0000	
	37 Trichloroethene	95	13.511	13.511	(1.032)	337011	50.0000	51.0880
$	38 Trifluorotoluene	146	13.914	13.914	(1.063)	559709	50.0000	54.7803
	39 1,2-Dichloropropane	63	13.954	13.954	(1.066)	403097	50.0000	51.5340
	40 Dibromomethane	93	14.160	14.160	(1.082)	245432	50.0000	52.8759
	41 Bromodichloromethane	83	14.328	14.328	(1.095)	433605	50.0000	51.3963
	42 Tetramethyl THF	43	14.977	14.977	(1.144)	945106	50.0000	53.5146
	43 cis-1,3-Dichloropropene	75	15.026	15.026	(1.148)	563781	50.0000	52.7078
	44 4-Methyl-2-Pentanone	43	15.184	15.184	(1.160)	517430	50.0000	52.4484
$	45 Toluene-d8	98	15.400	15.400	(1.177)	1268743	50.0000	51.2307
	46 Toluene	92	15.508	15.508	(1.185)	951245	50.0000	52.7918
	47 trans-1,3-Dichloropropene	75	15.882	15.882	(1.213)	501148	50.0000	52.9652
	48 2-Chloroethylvinylether — NS	63	16.177	16.177	(1.236)	56809	50.0000	50.9017
	49 1,1,2-Trichloroethane	85	16.177	16.177	(1.236)	171013	50.0000	52.3170
	50 Tetrachloroethene	166	16.325	16.325	(0.925)	351541	50.0000	53.5280
	51 2-Hexanone	43	16.443	16.443	(0.931)	391792	50.0000	52.0364
	52 1,3-Dichloropropane	76	16.463	16.463	(0.933)	533375	50.0000	51.2906
	53 Dibromochloromethane	129	16.787	16.787	(0.951)	340845	50.0000	51.0278
	54 1,2-Dibromoethane	107	17.024	17.024	(1.301)	352626	50.0000	52.3081
*	55 Chlorobenzene-d5	117	17.653	17.653	(1.000)	1058421	50.0000	
	56 Chlorobenzene	112	17.702	17.702	(1.003)	1091216	50.0000	51.7725
	57 Ethylbenzene	91	17.761	17.761	(1.006)	1835613	50.0000	52.1931
	58 1,1,1,2-Tetrachloroethane	131	17.791	17.791	(1.008)	301285	50.0000	51.4151
	59 m,p-Xylenes	106	17.939	17.939	(1.016)	1498146	100.000	103.9473
	60 o-Xylene	106	18.549	18.549	(1.051)	730529	50.0000	52.0343
	61 Styrene	104	18.578	18.578	(1.052)	1274550	50.0000	51.8875
	62 Bromoform	173	18.932	18.932	(1.072)	247453	50.0000	52.6275
	63 Isopropylbenzene	105	19.041	19.041	(0.905)	1798022	50.0000	52.0423
	64 Cyclohexanone	55	19.336	19.336	(0.920)	349456	500.000	534.6599
$	65 Bromofluorobenzene	95	19.365	19.365	(0.921)	584168	50.0000	49.0981
	66 1,1,2,2-Tetrachloroethane	83	19.542	19.542	(0.929)	460921	50.0000	50.6609
	67 Bromobenzene	156	19.631	19.631	(0.934)	437886	50.0000	51.4723
	68 Propylbenzene	91	19.631	19.631	(0.934)	2153247	50.0000	51.7274
	69 1,2,3-Trichloropropane	110	19.660	19.660	(0.935)	121565	50.0000	50.2392
	70 2-Chlorotoluene	91	19.857	19.857	(0.944)	1421097	50.0000	51.0756
	71 1,3,5-Trimethylbenzene	105	19.877	19.877	(0.945)	1392319	50.0000	52.2658
	72 4-Chlorotoluene	91	20.015	20.015	(0.952)	1321826	50.0000	51.0118
	73 tert-Butylbenzene	119	20.349	20.349	(0.968)	1193108	50.0000	52.3556
	74 1,2,4-Trimethylbenzene	105	20.428	20.428	(0.971)	1279657	50.0000	52.7374
	75 sec-Butylbenzene	105	20.654	20.654	(0.982)	1972051	50.0000	53.4201
	76 para-Isopropyl Toluene	119	20.831	20.831	(0.991)	1415187	50.0000	52.8186

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL14.D
Report Date: 22-Sep-2004 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.930	20.930	(0.995)	801037	50.0000	51.5668
* 78 1,4-Dichlorobenzene-d4	152	21.028	21.028	(1.000)	507875	50.0000	
79 1,4-Dichlorobenzene	146	21.057	21.057	(1.001)	811992	50.0000	51.6450
80 n-Butylbenzene	91	21.412	21.412	(1.018)	1217261	50.0000	52.9253
81 1,2-Dichlorobenzene	146	21.618	21.618	(1.028)	751408	50.0000	51.3122
82 1,2-Dibromo-3-Chloropropane	75	22.779	22.779	(1.083)	88355	50.0000	49.5908
83 1,2,4-Trichlorobenzene	180	24.078	24.078	(1.145)	391158	50.0000	52.9580
84 Hexachlorobutadiene	225	24.216	24.216	(1.152)	241394	50.0000	52.8488
85 Naphthalene	128	24.570	24.570	(1.168)	863239	50.0000	52.8488
86 1,2,3-Trichlorobenzene	180	25.013	25.013	(1.189)	369700	50.0000	52.3939

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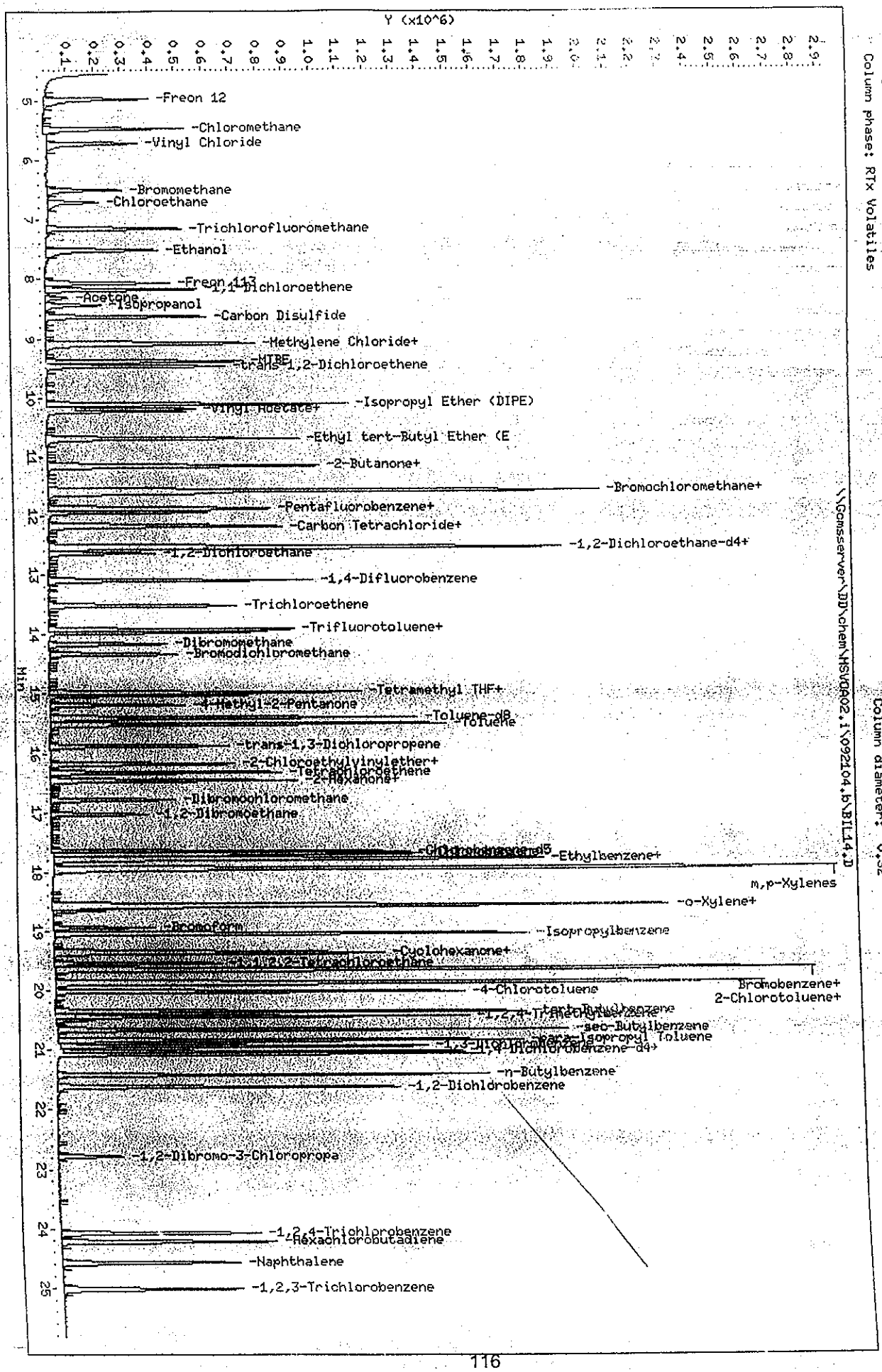

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Report Date: 22-Sep-2004 09:37

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL15.D
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Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.963	4.963	(0.418)	800915	60.0000	62.3721
2 Chloromethane	50	5.455	5.455	(0.460)	1054096	60.0000	62.5285
3 Vinyl Chloride	62	5.710	5.710	(0.482)	754131	60.0000	66.4211
4 Bromomethane	94	6.488	6.488	(0.547)	362733	60.0000	61.5246
5 Chloroethane	64	6.694	6.694	(0.564)	368102	60.0000	62.3572
6 Trichlorofluoromethane	101	7.147	7.147	(0.603)	691221	60.0000	59.7736
7 Ethanol	45	7.511	7.511	(0.633)	933819	6000.00	5725.6239
8 Freon 113	101	8.062	8.062	(0.680)	374712	60.0000	66.7013
9 1,1-Dichloroethene	96	8.160	8.160	(0.688)	379563	60.0000	64.3522
10 Acetone	43	8.308	8.308	(0.701)	160230	60.0000	54.3787
11 Isopropanol	45	8.426	8.426	(0.710)	438856	600.000	535.7942
12 Carbon Disulfide	76	8.623	8.623	(0.727)	1431552	60.0000	62.7318
13 Methylene Chloride	84	9.075	9.075	(0.765)	508375	60.0000	55.7911
14 tert-Butyl Alcohol (TBA)	59	9.105	9.105	(0.768)	564008	600.000	529.5006
15 MTBE	73	9.380	9.380	(0.791)	1124599	60.0000	57.6860
16 trans-1,2-Dichloroethene	96	9.459	9.459	(0.798)	428883	60.0000	61.2035
17 Isopropyl Ether (DIPE)	45	10.099	10.099	(0.852)	1790637	60.0000	60.4588
18 Vinyl Acetate	43	10.187	10.187	(0.859)	1183194	60.0000	58.7484
19 1,1-Dichloroethane	63	10.227	10.227	(0.862)	779527	60.0000	60.3618
20 Ethyl tert-Butyl Ether (ETBE)	59	10.689	10.689	(0.901)	1379835	60.0000	59.0896
21 2-Butanone	43	11.142	11.142	(0.939)	264868	60.0000	53.7378
22 2,2-Dichloropropane	77	11.142	11.142	(0.939)	544381	60.0000	62.3133

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL15.D
Report Date: 22-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.161	11.161	(0.941)	457283	60.0000	60.1557
	24 Bromochloromethane	128	11.565	11.565	(0.975)	227293	60.0000	60.4772
	25 Tetrahydrofuran	42	11.565	11.565	(0.975)	1558531	600.000	531.6878
	26 Chloroform	83	11.624	11.624	(0.980)	694558	60.0000	60.7208
*	27 Pentafluorobenzene	168	11.860	11.860	(1.000)	727399	50.0000	
$	28 Dibromofluoromethane	113	11.889	11.889	(1.002)	360392	50.0000	49.5051
	29 1,1,1-Trichloroethane	97	11.929	11.929	(1.006)	526334	60.0000	62.5062
	30 Carbon Tetrachloride	117	12.155	12.155	(0.929)	447052	60.0000	65.4306
	31 1,1-Dichloropropene	75	12.175	12.175	(0.930)	536762	60.0000	62.6512
$	32 1,2-Dichloroethane-d4	65	12.509	12.509	(0.956)	318323	50.0000	48.8279
	33 Benzene	78	12.519	12.519	(0.956)	1664701	60.0000	60.7085
	34 Methyl tert-Amyl Ether (TAME)	73	12.539	12.539	(0.958)	1200052	60.0000	59.3799
	35 1,2-Dichloroethane	62	12.627	12.627	(0.965)	470652	60.0000	58.7085
*	36 1,4-Difluorobenzene	114	13.090	13.090	(1.000)	1165991	50.0000	
	37 Trichloroethene	95	13.513	13.513	(1.032)	404247	60.0000	60.2143
$	38 Trifluorotoluene	146	13.916	13.916	(1.063)	669499	60.0000	64.3857
	39 1,2-Dichloropropane	63	13.956	13.956	(1.066)	468311	60.0000	58.8298
	40 Dibromomethane	93	14.162	14.162	(1.082)	278982	60.0000	59.0583
	41 Bromodichloromethane	83	14.329	14.329	(1.095)	513454	60.0000	59.8022
	42 Tetramethyl THF	43	14.979	14.979	(1.144)	1070252	60.0000	59.5464
	43 cis-1,3-Dichloropropene	75	15.028	15.028	(1.148)	664367	60.0000	61.0311
	44 4-Methyl-2-Pentanone	43	15.185	15.185	(1.160)	555209	60.0000	55.2987
$	45 Toluene-d8	98	15.402	15.402	(1.177)	1263853	50.0000	50.1454
	46 Toluene	92	15.510	15.510	(1.185)	1123522	60.0000	61.2680
	47 trans-1,3-Dichloropropene	75	15.874	15.874	(1.213)	573537	60.0000	59.5612
	48 2-Chloroethylvinylether NS	63	16.179	16.179	(1.236)	68452	60.0000	60.2670
	49 1,1,2-Trichloroethane	85	16.179	16.179	(1.236)	195997	60.0000	58.9171
	50 Tetrachloroethene	166	16.327	16.327	(0.925)	413626	60.0000	62.7276
	51 2-Hexanone	43	16.445	16.445	(0.931)	415230	60.0000	54.9270
	52 1,3-Dichloropropane	76	16.464	16.464	(0.933)	617982	60.0000	59.1870
	53 Dibromochloromethane	129	16.789	16.789	(0.951)	398984	60.0000	59.4909
	54 1,2-Dibromoethane	107	17.025	17.025	(1.301)	403811	60.0000	58.8588
*	55 Chlorobenzene-d5	117	17.655	17.655	(1.000)	1062706	50.0000	
	56 Chlorobenzene	112	17.694	17.694	(1.002)	1292451	60.0000	61.0728
	57 Ethylbenzene	91	17.763	17.763	(1.006)	2195610	60.0000	62.1774
	58 1,1,1,2-Tetrachloroethane	131	17.793	17.793	(1.008)	358786	60.0000	60.9809
	59 m,p-Xylenes	106	17.930	17.930	(1.016)	1796564	120.000	124.1502
	60 o-Xylene	106	18.550	18.550	(1.051)	869925	60.0000	61.7134
	61 Styrene	104	18.570	18.570	(1.052)	1524206	60.0000	61.8010
	62 Bromoform	173	18.934	18.934	(1.072)	276973	60.0000	58.6682
	63 Isopropylbenzene	105	19.042	19.042	(0.905)	2153098	60.0000	63.4295
	64 Cyclohexanone	55	19.337	19.337	(0.920)	405112	600.000	631.1271
$	65 Bromofluorobenzene	95	19.367	19.367	(0.921)	588580	50.0000	50.3722
	66 1,1,2,2-Tetrachloroethane	83	19.534	19.534	(0.929)	526275	60.0000	58.9004
	67 Bromobenzene	156	19.623	19.623	(0.933)	512914	60.0000	61.3926
	68 Propylbenzene	91	19.633	19.633	(0.934)	2581789	60.0000	63.1549
	69 1,2,3-Trichloropropane	110	19.662	19.662	(0.935)	141762	60.0000	59.6559
	70 2-Chlorotoluene	91	19.859	19.859	(0.944)	1685486	60.0000	61.6842
	71 1,3,5-Trimethylbenzene	105	19.869	19.869	(0.945)	1613778	60.0000	61.6853
	72 4-Chlorotoluene	91	20.016	20.016	(0.952)	1541481	60.0000	60.5751
	73 tert-Butylbenzene	119	20.351	20.351	(0.968)	1429680	60.0000	63.8824
	74 1,2,4-Trimethylbenzene	105	20.430	20.430	(0.971)	1473082	60.0000	61.8175
	75 sec-Butylbenzene	105	20.656	20.656	(0.982)	2303983	60.0000	63.5514
	76 para-Isopropyl Toluene	119	20.833	20.833	(0.991)	1650534	60.0000	62.7273

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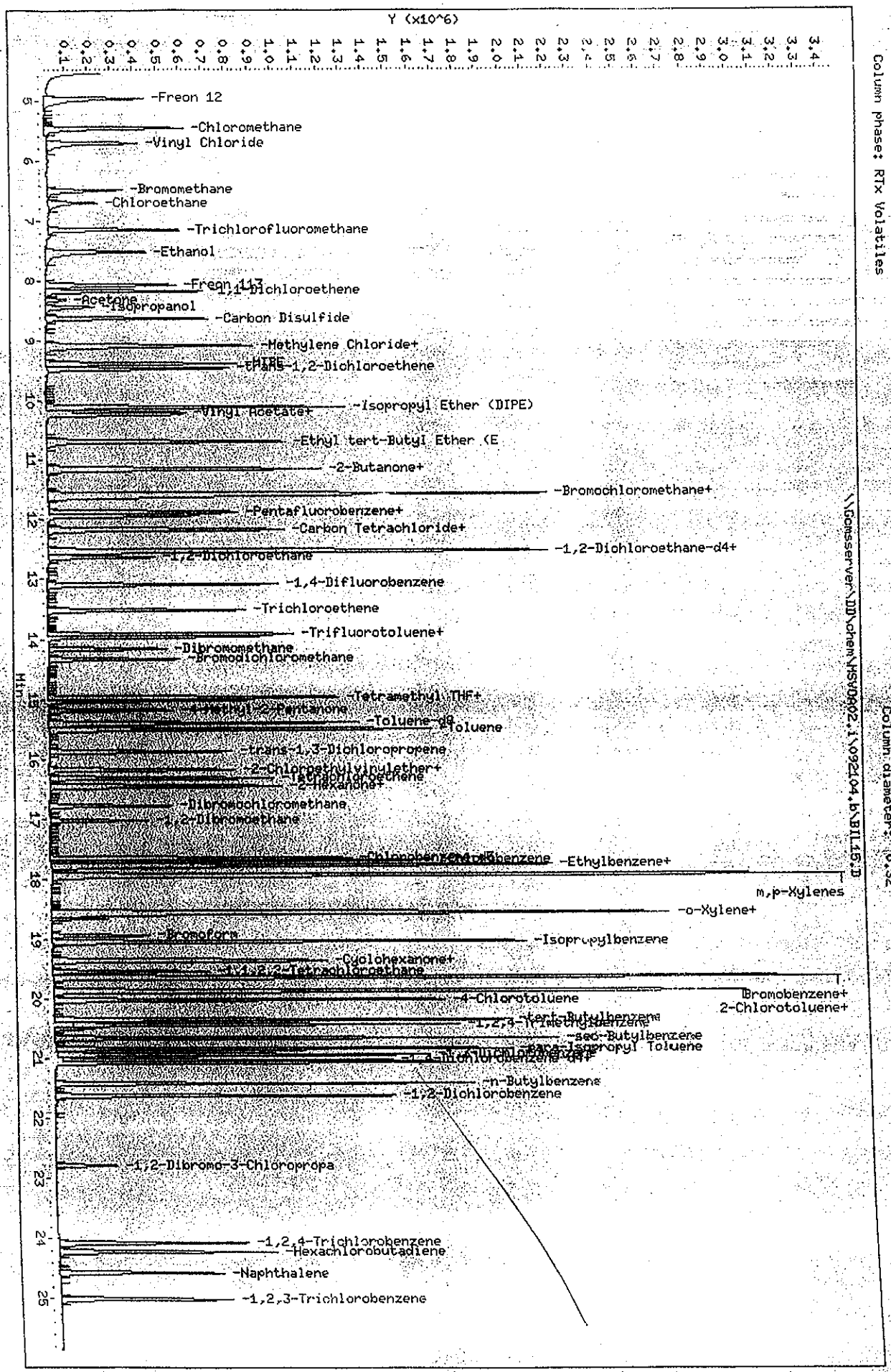
Report Date: 22-Sep-2004 09:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.931	20.931	(0.995)	945243	60.0000	61.9613
* 78 1,4-Dichlorobenzene-d4	152	21.030	21.030	(1.000)	498767	50.0000	
79 1,4-Dichlorobenzene	146	21.059	21.059	(1.001)	936477	60.0000	60.6503
80 n-Butylbenzene	91	21.413	21.413	(1.018)	1416769	60.0000	62.7246
81 1,2-Dichlorobenzene	146	21.620	21.620	(1.028)	876915	60.0000	60.9763
82 1,2-Dibromo-3-Chloropropane	75	22.771	22.771	(1.083)	94948	60.0000	54.2643
83 1,2,4-Trichlorobenzene	180	24.080	24.080	(1.145)	443476	60.0000	61.1377
84 Hexachlorobutadiene	225	24.218	24.218	(1.152)	289970	60.0000	64.6429
85 Naphthalene	128	24.572	24.572	(1.168)	925216	60.0000	57.6775
86 1,2,3-Trichlorobenzene	180	25.015	25.015	(1.189)	421779	60.0000	60.8661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Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: HSVOA02.i
Operator: AJA
Column diameter: 0.32
\\Gcmsserver\DD\chem\HSVOA02.i\092104.b\BIL15.D
Y (x10^6)
Min
-Freon 12
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Freon 113
-1,1-Dichloroethene
-Acetone
-Isopropanol
-Carbon Disulfide
-Methylene Chloride+
-trans-1,2-Dichloroethene
-Isopropyl Ether (DIPE)
-Vinyl Acetate+
-Ethyl tert-Butyl Ether (E
-2-Butanone+
-Bromochloromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane
-Bromodichloromethane
-Tetramethyl THF+
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-2-Chloroethylvinylether+
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Ethylbenzene+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone+
-1,1,2,2-Tetrachloroethane
-4-Chlorotoluene
-Bromobenzene+
-2-Chlorotoluene+
-1,2,3-Trimethylbenzene
-tert-Butylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL16.D
Report Date: 22-Sep-2004 09:38

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-SEP-2004 21:19 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1412,0.0015/5,04SS331,0.00075/5
Misc Info : 75PPB, NP NI
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\826GOX02.m
Meth Date : 22-Sep-2004 09:37 chemist Quant Type: ISTD
Cal Date : 21-SEP-2004 21:19 Cal File: BIL16.D
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.958	4.958	(0.418)	1012713	75.0000	75.6660
2 Chloromethane	50	5.450	5.450	(0.459)	1310125	75.0000	75.3288
3 Vinyl Chloride	62	5.706	5.706	(0.481)	940550	75.0000	80.2956
4 Bromomethane	94	6.483	6.483	(0.546)	472947	75.0000	77.7544
5 Chloroethane	64	6.690	6.690	(0.564)	485942	75.0000	76.5069
6 Trichlorofluoromethane	101	7.142	7.142	(0.602)	910254	75.0000	75.2506
7 Ethanol	45	7.506	7.506	(0.633)	1252531	7500.00	7443.8730
8 Freon 113	101	8.057	8.057	(0.679)	482710	75.0000	83.2862
9 1,1-Dichloroethene	96	8.166	8.166	(0.688)	487434	75.0000	80.1024
10 Acetone	43	8.303	8.303	(0.700)	220893	75.0000	73.6470
11 Isopropanol	45	8.431	8.431	(0.711)	606206	750.000	717.3756
12 Carbon Disulfide	76	8.618	8.618	(0.726)	1840920	75.0000	78.1927
13 Methylene Chloride	84	9.071	9.071	(0.765)	647299	75.0000	68.8552
14 tert-Butyl Alcohol (TBA)	59	9.100	9.100	(0.767)	314197	750.000	740.9025
15 MTBE	73	9.376	9.376	(0.790)	1490745	75.0000	74.1184
16 trans-1,2-Dichloroethene	96	9.464	9.464	(0.798)	560232	75.0000	77.4918
17 Isopropyl Ether (DIPE)	45	10.104	10.104	(0.852)	2302312	75.0000	75.3470
18 Vinyl Acetate	43	10.183	10.183	(0.858)	1555219	75.0000	74.8484
19 1,1-Dichloroethane	63	10.222	10.222	(0.862)	100[illegible]625	75.0000	75.1773
20 Ethyl tert-Butyl Ether (ETBE)	59	10.684	10.684	(0.900)	1816695	75.0000	75.4078
21 2-Butanone	43	11.147	11.147	(0.939)	371552	75.0000	73.0668
22 2,2-Dichloropropane	77	11.137	11.137	(0.939)	698021	75.0000	77.4456

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL16.D
Report Date: 22-Sep-2004 09:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	11.166	11.166	(0.941)	605120	75.0000	77.1584
24 Bromochloromethane	128	11.570	11.570	(0.975)	297789	75.0000	76.8007
25 Tetrahydrofuran	42	11.570	11.570	(0.975)	2193210	750.000	725.2235
26 Chloroform	83	11.619	11.619	(0.979)	889232	75.0000	75.3519
* 27 Pentafluorobenzene	168	11.865	11.865	(1.000)	750451	50.0000	
$ 28 Dibromofluoromethane	113	11.895	11.895	(1.002)	373517	50.0000	49.7320
29 1,1,1-Trichloroethane	97	11.934	11.934	(1.006)	677622	75.0000	78.0009
30 Carbon Tetrachloride	117	12.150	12.150	(0.928)	573879	75.0000	81.2953
31 1,1-Dichloropropene	75	12.180	12.180	(0.930)	707686	75.0000	79.9484
$ 32 1,2-Dichloroethane-d4	65	12.505	12.505	(0.955)	329359	50.0000	48.8980
33 Benzene	78	12.524	12.524	(0.956)	2144287	75.0000	75.6864
34 Methyl tert-Amyl Ether (TAME)	73	12.544	12.544	(0.958)	1568033	75.0000	75.0959
35 1,2-Dichloroethane	62	12.632	12.632	(0.965)	618621	75.0000	74.6874
* 36 1,4-Difluorobenzene	114	13.095	13.095	(1.000)	1204685	50.0000	
37 Trichloroethene	95	13.518	13.518	(1.032)	530957	75.0000	76.5480
$ 38 Trifluorotoluene	146	13.921	13.921	(1.063)	873355	75.0000	81.2929
39 1,2-Dichloropropane	63	13.961	13.961	(1.066)	615584	75.0000	74.8466
40 Dibromomethane	93	14.158	14.158	(1.081)	370523	75.0000	75.9174
41 Bromodichloromethane	83	14.335	14.335	(1.095)	673125	75.0000	75.8810
42 Tetramethyl THF	43	14.974	14.974	(1.144)	1305538	75.0000	70.3041(M)
43 cis-1,3-Dichloropropene	75	15.023	15.023	(1.147)	821420	75.0000	73.0348(M)
44 4-Methyl-2-Pentanone	43	15.181	15.181	(1.159)	788573	75.0000	76.0190
$ 45 Toluene-d8	98	15.397	15.397	(1.176)	1301052	50.0000	49.9633
46 Toluene	92	15.505	15.505	(1.184)	1442967	75.0000	76.1605
47 trans-1,3-Dichloropropene	75	15.879	15.879	(1.213)	752511	75.0000	75.6375
48 2-Chloroethylvinylether	63	16.175	16.175	(1.235)	88582	75.0000	75.4850
49 1,1,2-Trichloroethane	85	16.184	16.184	(1.236)	261741	75.0000	76.1527
50 Tetrachloroethene	166	16.322	16.322	(0.925)	536709	75.0000	79.2139
51 2-Hexanone	43	16.450	16.450	(0.932)	591317	75.0000	76.1254
52 1,3-Dichloropropane	76	16.470	16.470	(0.933)	812479	75.0000	75.7311
53 Dibromochloromethane	129	16.785	16.785	(0.951)	523263	75.0000	75.9324
54 1,2-Dibromoethane	107	17.031	17.031	(1.301)	520169	75.0000	73.3836
* 55 Chlorobenzene-d5	117	17.650	17.650	(1.000)	1091947	50.0000	
56 Chlorobenzene	112	17.700	17.700	(1.003)	1647309	75.0000	75.7566
57 Ethylbenzene	91	17.768	17.768	(1.007)	2791013	75.0000	76.9220
58 1,1,1,2-Tetrachloroethane	131	17.798	17.798	(1.008)	456016	75.0000	75.4311
59 m,p-Xylenes	106	17.936	17.936	(1.016)	2259991	150.000	151.9928
60 o-Xylene	106	18.546	18.546	(1.051)	1107740	75.0000	76.4799
61 Styrene	104	18.575	18.575	(1.052)	1929813	75.0000	76.1515
62 Bromoform	173	18.939	18.939	(1.073)	379375	75.0000	78.2070
63 Isopropylbenzene	105	19.038	19.038	(0.905)	2736165	75.0000	78.1008
64 Cyclohexanone	55	19.333	19.333	(0.920)	461039	750.000	695.9287
$ 65 Bromofluorobenzene	95	19.362	19.362	(0.921)	600560	50.0000	49.7998
66 1,1,2,2-Tetrachloroethane	83	19.539	19.539	(0.929)	697874	75.0000	75.6778
67 Bromobenzene	156	19.628	19.628	(0.934)	653390	75.0000	75.7756
68 Propylbenzene	91	19.638	19.638	(0.934)	3213101	75.0000	76.1545
69 1,2,3-Trichloropropane	110	19.658	19.658	(0.935)	183648	75.0000	74.8799
70 2-Chlorotoluene	91	19.854	19.854	(0.944)	2109325	75.0000	74.7959
71 1,3,5-Trimethylbenzene	105	19.874	19.874	(0.945)	2095855	75.0000	77.6219
72 4-Chlorotoluene	91	20.012	20.012	(0.952)	1997561	75.0000	76.0573
73 tert-Butylbenzene	119	20.346	20.346	(0.968)	1825978	75.0000	79.0539
74 1,2,4-Trimethylbenzene	105	20.435	20.435	(0.972)	1909799	75.0000	77.6529
75 sec-Butylbenzene	105	20.651	20.651	(0.982)	2973787	75.0000	79.4769
76 para-Isopropyl Toluene	119	20.828	20.828	(0.991)	2141938	75.0000	78.8722

9/22/04

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL16.D
Report Date: 22-Sep-2004 09:38

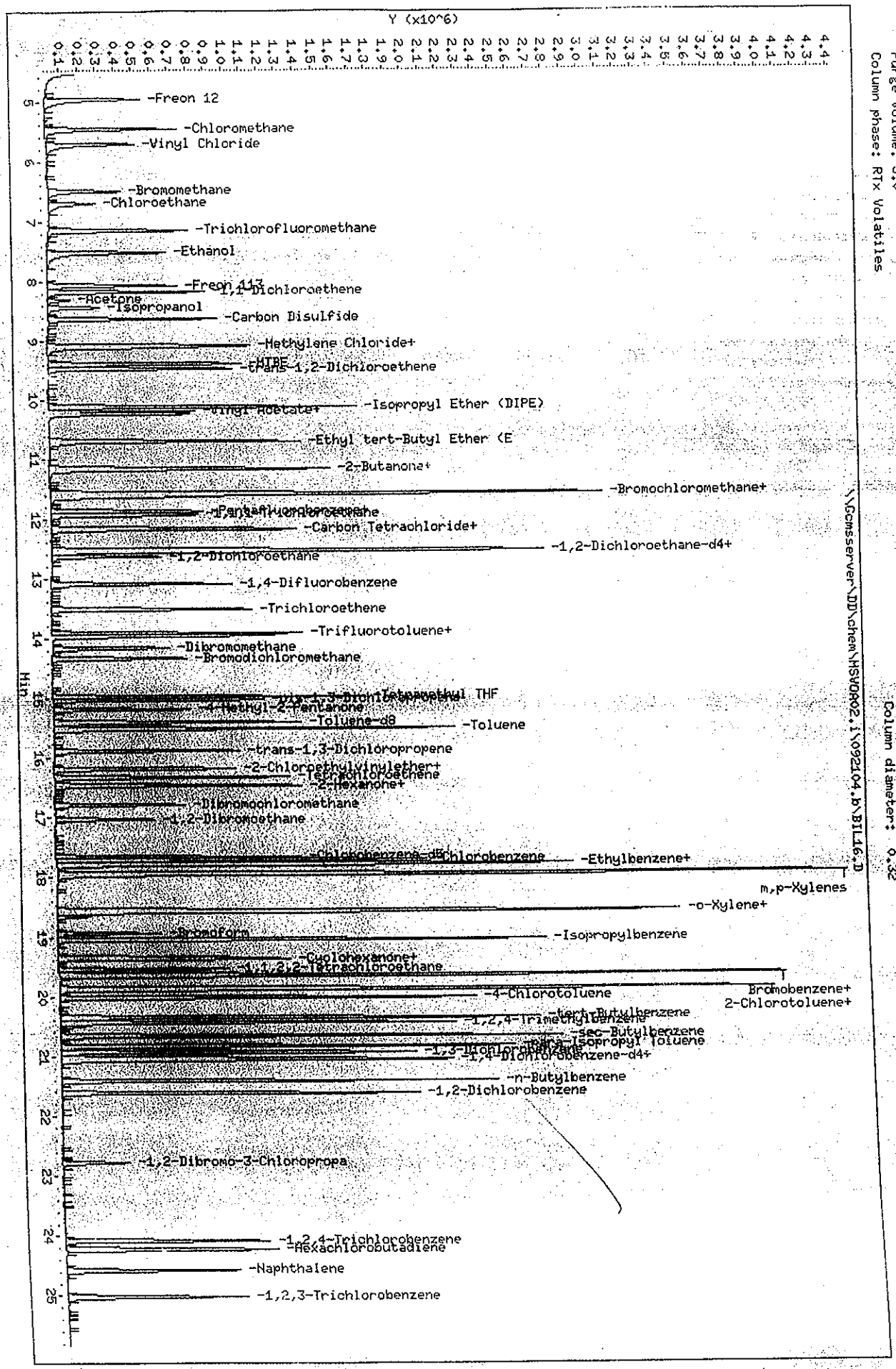
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.937	20.937	(0.996)	1196374	75.0000	75.9853
* 78 1,4-Dichlorobenzene-d4	152	21.025	21.025	(1.000)	514769	50.0000	
79 1,4-Dichlorobenzene	146	21.065	21.065	(1.002)	1211863	75.0000	76.0457
80 n-Butylbenzene	91	21.409	21.409	(1.018)	1863601	75.0000	79.9424
81 1,2-Dichlorobenzene	146	21.615	21.615	(1.028)	1129905	75.0000	76.1256
82 1,2-Dibromo-3-Chloropropane	75	22.776	22.776	(1.083)	132466	75.0000	73.3531
83 1,2,4-Trichlorobenzene	180	24.075	24.075	(1.145)	582540	75.0000	77.8126
84 Hexachlorobutadiene	225	24.223	24.223	(1.152)	369833	75.0000	79.8838
85 Naphthalene	128	24.567	24.567	(1.168)	1278954	75.0000	77.2509
86 1,2,3-Trichlorobenzene	180	25.010	25.010	(1.190)	566860	75.0000	79.2595

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA02.i\092104.b\BIL16.D
Date : 21-SEP-2004 21:19
Client ID: DYNA P&T
Sample Info: ICAL,04WS1412,0.0015/5,04SS331,0.00075/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA02.i
Operator: AJA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL17.D
Report Date: 22-Sep-2004 09:38

Curtis & Tompkins

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-SEP-2004 21:52 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1412,0.002/5,04SS331,0.001/5
Misc Info : 100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\826GOX02.m
Meth Date : 22-Sep-2004 09:38 chemist Quant Type: ISTD
Cal Date : 21-SEP-2004 21:52 Cal File: BIL17.D
Als bottle: 17 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA04

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.957	4.957	(1.000)	1333792	100.000	96.2524
2 Chloromethane	50	5.449	5.449	(1.000)	1581998	100.000	88.7511(M)
3 Vinyl Chloride	62	5.705	5.705	(1.000)	1286551	100.000	107.1659
4 Bromomethane	94	6.482	6.482	(1.000)	646628	100.000	103.7258
5 Chloroethane	64	6.689	6.689	(1.000)	633117	100.000	101.4314
6 Trichlorofluoromethane	101	7.141	7.141	(1.000)	1246842	100.000	99.2988
7 Ethanol	45	7.505	7.505	(1.000)	1793229	10000.0	10398.3874
8 Freon 113	101	8.056	8.056	(1.000)	678278	100.000	114.1864
9 1,1-Dichloroethene	96	8.165	8.165	(1.000)	681126	100.000	109.2137
10 Acetone	43	8.302	8.302	(1.000)	311709	100.000	102.5031
11 Isopropanol	45	8.430	8.430	(1.000)	869088	1000.00	1003.4827
12 Carbon Disulfide	76	8.617	8.617	(1.000)	2522251	100.000	104.5296
13 Methylene Chloride	84	9.070	9.070	(1.000)	382357	100.000	91.5790
14 tert-Butyl Alcohol (TBA)	59	9.099	9.099	(1.000)	1158576	1000.00	1028.6694
15 MTBE	73	9.375	9.375	(1.000)	2080117	100.000	100.9091
16 trans-1,2-Dichloroethene	96	9.463	9.463	(1.000)	762464	100.000	102.9028
17 Isopropyl Ether (DIPE)	45	10.103	10.103	(1.000)	3197487	100.000	102.1012
18 Vinyl Acetate	43	10.181	10.181	(1.000)	2159101	100.000	101.3873
19 1,1-Dichloroethane	63	10.221	10.221	(1.000)	1364735	100.000	99.9423
20 Ethyl tert-Butyl Ether (ETBE)	59	10.683	10.683	(1.000)	2502389	100.000	101.3466
21 2-Butanone	43	11.146	11.146	(1.000)	528998	100.000	101.5020
22 2,2-Dichloropropane	77	11.136	11.136	(1.000)	972698	100.000	105.2994

9/22/04

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL17.D
Report Date: 22-Sep-2004 09:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	11.165	11.165	(1.000)	324772	100.000	102.6114
24 Bromochloromethane	128	11.569	11.569	(1.000)	414898	100.000	104.4041
25 Tetrahydrofuran	42	11.569	11.569	(1.000)	3051970	1000.00	984.6722
26 Chloroform	83	11.618	11.618	(1.000)	1221219	100.000	100.9700
* 27 Pentafluorobenzene	168	11.864	11.864	(1.000)	769135	50.0000	(M)
$ 28 Dibromofluoromethane	113	11.893	11.893	(1.000)	387490	50.0000	50.3391
29 1,1,1-Trichloroethane	97	11.933	11.933	(1.000)	943661	100.000	105.9859
30 Carbon Tetrachloride	117	12.149	12.149	(0.928)	800438	100.000	109.4903
31 1,1-Dichloropropene	75	12.179	12.179	(0.930)	960037	100.000	104.7274
$ 32 1,2-Dichloroethane-d4	65	12.504	12.504	(0.955)	334394	50.0000	47.9383
33 Benzene	78	12.523	12.523	(0.956)	2961121	100.000	100.9239
34 Methyl tert-Amyl Ether (TAME)	73	12.543	12.543	(0.958)	2175285	100.000	100.5959
35 1,2-Dichloroethane	62	12.631	12.631	(0.965)	851779	100.000	99.3008
* 36 1,4-Difluorobenzene	114	13.094	13.094	(1.000)	1247586	50.0000	
37 Trichloroethene	95	13.517	13.517	(1.032)	732058	100.000	101.9115
$ 38 Trifluorotoluene	146	13.920	13.920	(1.063)	1218607	100.000	109.5288
39 1,2-Dichloropropane	63	13.960	13.960	(1.066)	858267	100.000	100.7651
40 Dibromomethane	93	14.156	14.156	(1.081)	518857	100.000	102.6543
41 Bromodichloromethane	83	14.334	14.334	(1.095)	934812	100.000	101.7570
42 Tetramethyl THF	43	14.973	14.973	(1.144)	1981745	100.000	103.0486
43 cis-1,3-Dichloropropene	75	15.022	15.022	(1.147)	1201958	100.000	103.1946
44 4-Methyl-2-Pentanone	43	15.180	15.180	(1.159)	1093016	100.000	101.7443
$ 45 Toluene-d8	98	15.396	15.396	(1.176)	1334137	50.0000	49.4720
46 Toluene	92	15.504	15.504	(1.184)	1983869	100.000	101.1090
47 trans-1,3-Dichloropropene	75	15.878	15.878	(1.213)	1042419	100.000	101.1741
48 2-Chloroethylvinylether ~NS	63	16.183	16.183	(1.236)	119935	100.000	98.6880
49 1,1,2-Trichloroethane	85	16.183	16.183	(1.236)	362432	100.000	101.8223
50 Tetrachloroethene	166	16.321	16.321	(0.925)	748518	100.000	108.5516
51 2-Hexanone	43	16.449	16.449	(0.932)	830986	100.000	105.1174
52 1,3-Dichloropropane	76	16.469	16.469	(0.933)	1124771	100.000	103.0144
53 Dibromochloromethane	129	16.783	16.783	(0.951)	735294	100.000	104.8431
54 1,2-Dibromoethane	107	17.029	17.029	(1.301)	761334	100.000	103.7130
* 55 Chlorobenzene-d5	117	17.649	17.649	(1.000)	1111296	50.0000	
56 Chlorobenzene	112	17.698	17.698	(1.003)	2266890	100.000	102.4349
57 Ethylbenzene	91	17.767	17.767	(1.007)	3756416	100.000	101.7266
58 1,1,1,2-Tetrachloroethane	131	17.797	17.797	(1.008)	644063	100.000	104.6816
59 m,p-Xylenes	106	17.935	17.935	(1.016)	3064963	200.000	202.5411
60 o-Xylene	106	18.545	18.545	(1.051)	1471186	100.000	99.8042
61 Styrene	104	18.574	18.574	(1.052)	2571968	100.000	99.7242
62 Bromoform	173	18.938	18.938	(1.073)	534090	100.000	108.1840
63 Isopropylbenzene	105	19.037	19.037	(0.905)	3632358	100.000	104.8885
64 Cyclohexanone	55	19.332	19.332	(0.920)	571787	1000.00	873.1470
$ 65 Bromofluorobenzene	95	19.361	19.361	(0.921)	602850	50.0000	50.5715
66 1,1,2,2-Tetrachloroethane	83	19.538	19.538	(0.929)	981889	100.000	107.7159
67 Bromobenzene	156	19.627	19.627	(0.934)	887779	100.000	104.1569
68 Propylbenzene	91	19.637	19.637	(0.934)	4365520	100.000	104.6727
69 1,2,3-Trichloropropane	110	19.656	19.656	(0.935)	256186	100.000	105.6721
70 2-Chlorotoluene	91	19.853	19.853	(0.944)	2833624	100.000	101.6488
71 1,3,5-Trimethylbenzene	105	19.873	19.873	(0.945)	2782693	100.000	104.2593
72 4-Chlorotoluene	91	20.011	20.011	(0.952)	2649320	100.000	102.0473
73 tert-Butylbenzene	119	20.345	20.345	(0.968)	2437461	100.000	106.7558
74 1,2,4-Trimethylbenzene	105	20.434	20.434	(0.972)	2550593	100.000	104.9149
75 sec-Butylbenzene	105	20.660	20.660	(0.983)	3953989	100.000	106.9037
76 para-Isopropyl Toluene	119	20.837	20.837	(0.991)	2871373	100.000	106.9629

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\092104.b\BIL17.D
Report Date: 22-Sep-2004 09:38

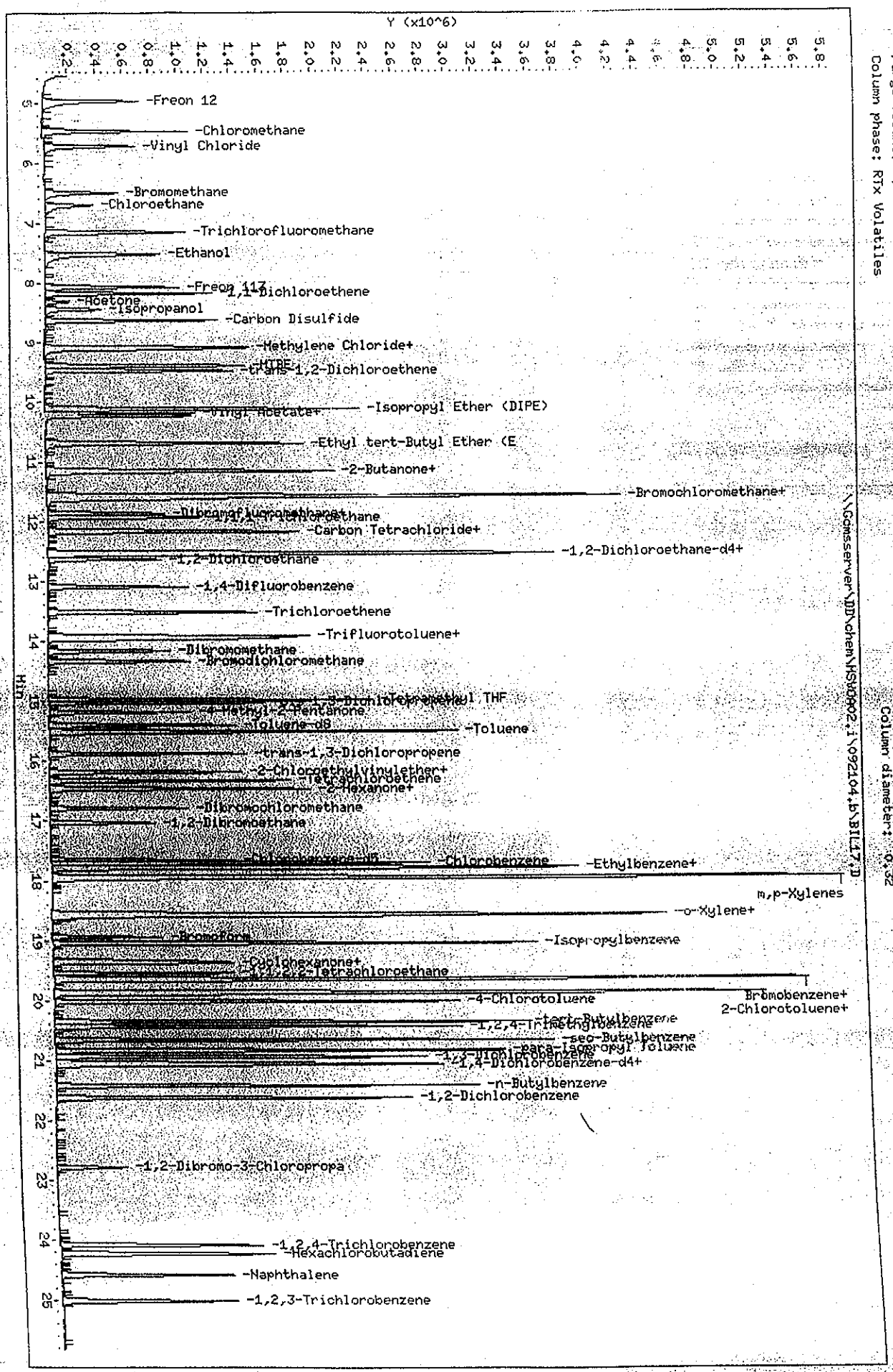
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.936	20.936	(0.996)	1594340	100.000	102.4400
* 78 1,4-Dichlorobenzene-d4	152	21.024	21.024	(1.000)	508846	50.0000	
79 1,4-Dichlorobenzene	146	21.063	21.063	(1.002)	1620846	100.000	102.8937
80 n-Butylbenzene	91	21.408	21.408	(1.018)	2493212	100.000	108.1956
81 1,2-Dichlorobenzene	146	21.614	21.614	(1.028)	1515510	100.000	103.2937
82 1,2-Dibromo-3-Chloropropane	75	22.775	22.775	(1.083)	184834	100.000	103.5433
83 1,2,4-Trichlorobenzene	180	24.074	24.074	(1.145)	773448	100.000	104.5157
84 Hexachlorobutadiene	225	24.222	24.222	(1.152)	494394	100.000	108.0320
85 Naphthalene	128	24.576	24.576	(1.169)	1709673	100.000	104.4691
86 1,2,3-Trichlorobenzene	180	25.019	25.019	(1.190)	743202	100.000	105.1257

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA02.i\092104.b\BIL17.D
Date : 21-SEP-2004 21:52
Client ID: DYNA F&T
Sample Info: ICAL,04WS1412,0.002/5,04SS331,0.001/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA02.i
Operator: AJA
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB
Seqnum : 414382147018 Filename : bi118 Injected : 21-SEP-2004 22:26
Calnum : 414382147001 Caldate : 21-SEP-2004 Caltype : SOIL
Standards: 04WS1726 (5000X), 04WS1580 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	43.25270	ug/L	-13	30	
Chloromethane	50.00000	45.16170	ug/L	-10	30	
Vinyl Chloride	50.00000	50.31010	ug/L	1	20	
Bromomethane	50.00000	50.80640	ug/L	2	30	
Chloroethane	50.00000	51.27190	ug/L	3	30	
Trichlorofluoromethane	50.00000	50.89350	ug/L	2	30	
Dibromofluoromethane	50.00000	49.56970	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	48.84830	ug/L	-2	30	
Toluene-d8	50.00000	49.70070	ug/L	-1	30	
Bromofluorobenzene	50.00000	50.32550	ug/L	1	30	

ISTD (ICAL-bi114)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	725020	722582	-0.34	11.87	11.87	0.00
1,4-Difluorobenzene	1145706	1160139	1.26	13.09	13.10	0.01
Chlorobenzene-d5	1058421	1043471	-1.41	17.65	17.65	0.00
1,4-Dichlorobenzene-d4	507875	487442	-4.02	21.03	21.03	0.00

9/22/04

09/22/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB Injected : 21-SEP-2004 22:59
Seqnum : 414382147019 Filename : bil19 Caltype : SOIL

Standards: 04WS1554 (10000X), 04WS1544 (10000X), 04WS1580 (5000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	414382147001	21-SEP-2004	25.00000	24.31200	ug/L	-3	40	
Freon 113	414382147001	21-SEP-2004	25.00000	32.97870	ug/L	32	30	v+ ***
1,1-Dichloroethene	414382147001	21-SEP-2004	25.00000	27.53940	ug/L	10	20	
Methylene Chloride	414382147001	21-SEP-2004	25.00000	25.32950	ug/L	1	30	
Carbon Disulfide	414382147001	21-SEP-2004	25.00000	25.78200	ug/L	3	30	
MTBE	414382147001	21-SEP-2004	50.00000	50.66760	ug/L	1	30	
trans-1,2-Dichloroethene	414382147001	21-SEP-2004	25.00000	27.35180	ug/L	9	30	
Vinyl Acetate	414382147001	21-SEP-2004	25.00000	21.56110	ug/L	-14	40	
1,1-Dichloroethane	414382147001	21-SEP-2004	25.00000	26.92240	ug/L	8	30	
2-Butanone	414382147001	21-SEP-2004	25.00000	23.44440	ug/L	-6	40	
2,2-Dichloropropane	414382147001	21-SEP-2004	25.00000	26.58750	ug/L	6	30	
cis-1,2-Dichloroethene	414382147001	21-SEP-2004	25.00000	27.25290	ug/L	9	30	
Chloroform	414382147001	21-SEP-2004	25.00000	26.48430	ug/L	6	20	
Bromochloromethane	414382147001	21-SEP-2004	25.00000	27.20240	ug/L	9	30	
1,1,1-Trichloroethane	414382147001	21-SEP-2004	25.00000	27.72520	ug/L	11	30	
1,1-Dichloropropene	414382147001	21-SEP-2004	25.00000	27.23740	ug/L	9	30	
Carbon Tetrachloride	414382147001	21-SEP-2004	25.00000	28.55700	ug/L	14	30	
1,2-Dichloroethane	414382147001	21-SEP-2004	25.00000	26.59610	ug/L	6	30	
Benzene	414382147001	21-SEP-2004	25.00000	27.21160	ug/L	9	30	
Trichloroethene	414382147001	21-SEP-2004	25.00000	27.51840	ug/L	10	30	
1,2-Dichloropropane	414382147001	21-SEP-2004	25.00000	26.01540	ug/L	4	20	
Bromodichloromethane	414382147001	21-SEP-2004	25.00000	27.34730	ug/L	9	30	
Dibromomethane	414382147001	21-SEP-2004	25.00000	26.54460	ug/L	6	30	
2-Chloroethylvinylether	413413595002	14-OCT-2003	25.00000	25.86850	ug/L	3	40	! (NOT USED) M/NS
4-Methyl-2-Pentanone	414382147001	21-SEP-2004	25.00000	23.47440	ug/L	-6	40	
Tetramethyl THF	414382147001	21-SEP-2004	25.00000	25.64210	ug/L	3	30	
cis-1,3-Dichloropropene	414382147001	21-SEP-2004	25.00000	27.09730	ug/L	8	30	
Toluene	414382147001	21-SEP-2004	25.00000	27.45830	ug/L	10	20	
trans-1,3-Dichloropropene	414382147001	21-SEP-2004	25.00000	24.74610	ug/L	-1	30	
1,1,2-Trichloroethane	414382147001	21-SEP-2004	25.00000	27.47600	ug/L	10	30	
2-Hexanone	414382147001	21-SEP-2004	25.00000	24.06110	ug/L	-4	40	
1,3-Dichloropropane	414382147001	21-SEP-2004	25.00000	26.75850	ug/L	7	30	
Tetrachloroethene	414382147001	21-SEP-2004	25.00000	27.75090	ug/L	11	30	
Dibromochloromethane	414382147001	21-SEP-2004	25.00000	26.17440	ug/L	5	30	
1,2-Dibromoethane	414382147001	21-SEP-2004	25.00000	26.62220	ug/L	6	30	
Chlorobenzene	414382147001	21-SEP-2004	25.00000	26.52990	ug/L	6	30	
1,1,1,2-Tetrachloroethane	414382147001	21-SEP-2004	25.00000	27.14930	ug/L	9	30	
Ethylbenzene	414382147001	21-SEP-2004	25.00000	27.27110	ug/L	9	20	
m,p-Xylenes	414382147001	21-SEP-2004	50.00000	54.91060	ug/L	10	30	
o-Xylene	414382147001	21-SEP-2004	25.00000	27.08620	ug/L	8	30	
Styrene	414382147001	21-SEP-2004	25.00000	26.78350	ug/L	7	30	
Bromoform	414382147001	21-SEP-2004	25.00000	26.28410	ug/L	5	30	
Isopropylbenzene	414382147001	21-SEP-2004	25.00000	25.26330	ug/L	1	30	
1,1,2,2-Tetrachloroethane	414382147001	21-SEP-2004	25.00000	26.64850	ug/L	7	30	
1,2,3-Trichloropropane	414382147001	21-SEP-2004	25.00000	26.60260	ug/L	6	30	
Propylbenzene	414382147001	21-SEP-2004	25.00000	27.36050	ug/L	9	30	
Bromobenzene	414382147001	21-SEP-2004	25.00000	27.32170	ug/L	9	30	

!=calc err +=high bias -=low bias v=ICV

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB
Seqnum : 414382147019 Filename : bil19 Injected : 21-SEP-2004 22:59
Caltype : SOIL

Standards: 04WS1554 (10000X), 04WS1544 (10000X), 04WS1580 (5000X)

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	414382147001	21-SEP-2004	25.00000	26.84900	ug/L	7	30	
2-Chlorotoluene	414382147001	21-SEP-2004	25.00000	26.95700	ug/L	8	30	
4-Chlorotoluene	414382147001	21-SEP-2004	25.00000	26.28230	ug/L	5	30	
tert-Butylbenzene	414382147001	21-SEP-2004	25.00000	26.95750	ug/L	8	30	
1,2,4-Trimethylbenzene	414382147001	21-SEP-2004	25.00000	26.28240	ug/L	5	30	
sec-Butylbenzene	414382147001	21-SEP-2004	25.00000	27.25590	ug/L	9	30	
para-Isopropyl Toluene	414382147001	21-SEP-2004	25.00000	25.20050	ug/L	1	30	
1,3-Dichlorobenzene	414382147001	21-SEP-2004	25.00000	26.77280	ug/L	7	30	
1,4-Dichlorobenzene	414382147001	21-SEP-2004	25.00000	26.02890	ug/L	4	30	
n-Butylbenzene	414382147001	21-SEP-2004	25.00000	25.92360	ug/L	4	30	
1,2-Dichlorobenzene	414382147001	21-SEP-2004	25.00000	26.34140	ug/L	5	30	
1,2-Dibromo-3-Chloropropane	414382147001	21-SEP-2004	25.00000	25.23370	ug/L	1	30	
1,2,4-Trichlorobenzene	414382147001	21-SEP-2004	25.00000	24.44820	ug/L	-2	30	
Hexachlorobutadiene	414382147001	21-SEP-2004	25.00000	27.24930	ug/L	9	30	
Naphthalene	414382147001	21-SEP-2004	25.00000	24.89720	ug/L	0	30	
1,2,3-Trichlorobenzene	414382147001	21-SEP-2004	25.00000	25.23520	ug/L	1	30	
tert-Butyl Alcohol (TBA)	414382147001	21-SEP-2004	125.0000	127.2431	ug/L	2	30	
Isopropyl Ether (DIPE)	414382147001	21-SEP-2004	25.00000	25.82590	ug/L	3	30	
Ethyl tert-Butyl Ether (ETBE)	414382147001	21-SEP-2004	25.00000	26.32930	ug/L	5	30	
Methyl tert-Amyl Ether (TAME)	414382147001	21-SEP-2004	25.00000	25.05210	ug/L	0	30	
Cyclohexanone	414382147001	21-SEP-2004	250.0000	151.3120	ug/L	-39	30	v- ***
Ethanol	414382147001	21-SEP-2004	2500.000	2261.950	ug/L	-10	30	
Isopropanol	414382147001	21-SEP-2004	250.0000	223.4710	ug/L	-11	30	
Tetrahydrofuran	414382147001	21-SEP-2004	250.0000	246.1300	ug/L	-2	30	
Dibromofluoromethane	414382147001	21-SEP-2004	50.00000	49.62310	ug/L	-1	30	(NOT USED)
1,2-Dichloroethane-d4	414382147001	21-SEP-2004	50.00000	47.48100	ug/L	-5	30	(NOT USED)
Toluene-d8	414382147001	21-SEP-2004	50.00000	49.47580	ug/L	-1	30	(NOT USED)
Bromofluorobenzene	414382147001	21-SEP-2004	50.00000	50.41870	ug/L	1	30	(NOT USED)

ISTD (ICAL=bil14)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	725020	752862	3.84	11.87	11.87	0.00
1,4-Difluorobenzene	1145706	1201361	4.86	13.09	13.09	0.00
Chlorobenzene-d5	1058421	1081922	2.22	17.65	17.66	0.01
1,4-Dichlorobenzene-d4	507875	503758	-0.81	21.03	21.03	0.00

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!=calc err +=high bias -=low bias v=ISTV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB IDF : 1.0
Seqnum : 414400836003 Filename : bj403 Injected : 04-OCT-2004 09:28
Calnum : 414382147001 Caldate : 21-SEP-2004 Caltype : SOIL
Standards: 04WS1783 (5000X), 04SS352 (10000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7525	1.0019	50.00000	57.06650	ug/L	14	30	0.0500	
Chloromethane	1.1588	1.3125	50.00000	56.63480	ug/L	13	30	0.1000	
Vinyl Chloride	0.7804	0.9148	50.00000	58.60760	ug/L	17	20	0.0500	
Bromomethane	0.4053	0.4520	50.00000	55.76670	ug/L	12	30	0.0500	
Chloroethane	0.4058	0.4414	50.00000	54.38700	ug/L	9	30	0.0500	
Trichlorofluoromethane	0.6893	0.8322	50.00000	52.81570	ug/L	6	30	0.0500	
Acetone	0.2179	0.2671	50.00000	66.56780	ug/L	33	40	0.0500	!c+
Freon 113	0.3862	0.4833	50.00000	62.58080	ug/L	25	30	0.0500	!c+
1,1-Dichloroethene	0.4054	0.4858	50.00000	59.90990	ug/L	20	20	0.0500	
Methylene Chloride	0.6263	0.6175	50.00000	49.29240	ug/L	-1	30	0.0500	
Carbon Disulfide	1.5686	1.8784	50.00000	59.87520	ug/L	20	30	0.0500	
MTBE	1.3401	1.3846	50.00000	51.66150	ug/L	3	30	0.0500	
trans-1,2-Dichloroethene	0.4817	0.5324	50.00000	55.26560	ug/L	11	30	0.0500	
Vinyl Acetate	1.3844	1.1905	50.00000	42.99660	ug/L	-14	40	0.0500	
1,1-Dichloroethane	0.8877	0.9569	50.00000	53.89730	ug/L	8	30	0.1000	
2-Butanone	0.3388	0.3420	50.00000	50.46880	ug/L	1	40	0.0500	
2,2-Dichloropropane	0.6005	0.6874	50.00000	57.23210	ug/L	14	30	0.0500	
cis-1,2-Dichloroethene	0.5225	0.5590	50.00000	53.48590	ug/L	7	30	0.0500	
Chloroform	0.7863	0.8407	50.00000	53.45910	ug/L	7	20	0.0500	
Bromochloromethane	0.2583	0.2890	50.00000	55.93030	ug/L	12	30	0.0500	
1,1,1-Trichloroethane	0.5788	0.6317	50.00000	54.56600	ug/L	9	30	0.0500	
1,1-Dichloropropene	0.3674	0.4319	50.00000	58.77900	ug/L	18	30	0.0500	
Carbon Tetrachloride	0.2930	0.3568	50.00000	60.88530	ug/L	22	30	0.0500	!c+
1,2-Dichloroethane	0.3438	0.3582	50.00000	52.10180	ug/L	4	30	0.0500	
Benzene	1.1759	1.3010	50.00000	55.32020	ug/L	11	30	0.0500	
Trichloroethene	0.2879	0.3180	50.00000	55.22280	ug/L	10	30	0.0500	
1,2-Dichloropropane	0.3414	0.3648	50.00000	53.44060	ug/L	7	20	0.0500	
Bromodichloromethane	0.3682	0.3785	50.00000	51.39920	ug/L	3	30	0.0500	
Dibromomethane	0.2026	0.2080	50.00000	51.35310	ug/L	3	30	0.0500	
4-Methyl-2-Pentanone	0.4305	0.3859	50.00000	44.82050	ug/L	-10	40	0.0500	
Tetramethyl THF	0.7707	0.7183	50.00000	46.59920	ug/L	-7	30	0.0500	
cis-1,3-Dichloropropene	0.4668	0.5052	50.00000	54.11760	ug/L	8	30	0.0500	
Toluene	0.7864	0.8854	50.00000	56.29730	ug/L	13	20	0.0500	
trans-1,3-Dichloropropene	0.4129	0.4369	50.00000	52.90560	ug/L	6	30	0.0500	
1,1,2-Trichloroethane	0.1427	0.1481	50.00000	51.91540	ug/L	4	30	0.0500	
2-Hexanone	0.3557	0.3177	50.00000	44.65780	ug/L	-11	40	0.0500	
1,3-Dichloropropane	0.4913	0.4841	50.00000	49.27180	ug/L	-1	30	0.0500	
Tetrachloroethene	0.3102	0.3652	50.00000	58.86060	ug/L	18	30	0.0500	
Dibromochloromethane	0.3155	0.3242	50.00000	51.36760	ug/L	3	30	0.0500	
1,2-Dibromoethane	0.2942	0.2997	50.00000	50.92650	ug/L	2	30	0.0500	
Chlorobenzene	0.9957	1.0621	50.00000	53.33740	ug/L	7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.2768	0.2998	50.00000	54.15690	ug/L	8	30	0.0500	
Ethylbenzene	1.6614	1.7821	50.00000	53.63160	ug/L	7	20	0.0500	
m,p-Xylenes	0.6809	0.7503	100.0000	110.2040	ug/L	10	30	0.0500	
o-Xylene	0.6632	0.7144	50.00000	53.85810	ug/L	8	30	0.0500	
Styrene	1.1604	1.2226	50.00000	52.68260	ug/L	5	30	0.0500	

!=warning +=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB IDF : 1.0
Seqnum : 414400836003 Filename : bj403 Injected : 04-OCT-2004 09:28
Calnum : 414382147001 Caldate : 21-SEP-2004 Caltype : SOIL
Standards: 04WS1783 (5000X), 04SS352 (10000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.2221	0.2202	50.00000	49.56270	ug/L	-1	30	0.1000	
Isopropylbenzene	3.4029	3.4460	50.00000	50.63410	ug/L	1	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8957	0.8060	50.00000	44.99080	ug/L	-10	30	0.3000	
1,2,3-Trichloropropane	0.2382	0.2163	50.00000	45.40080	ug/L	-9	30	0.0500	
Propylbenzene	4.0981	4.2821	50.00000	52.24400	ug/L	4	30	0.0500	
Bromobenzene	0.8375	0.8860	50.00000	52.89430	ug/L	6	30	0.0500	
1,3,5-Trimethylbenzene	2.6226	2.7510	50.00000	52.44700	ug/L	5	30	0.0500	
2-Chlorotoluene	2.7392	2.7398	50.00000	50.01120	ug/L	0	30	0.0500	
4-Chlorotoluene	2.5510	2.5373	50.00000	49.73000	ug/L	-1	30	0.0500	
tert-Butylbenzene	2.2435	2.4110	50.00000	53.73180	ug/L	7	30	0.0500	
1,2,4-Trimethylbenzene	2.3888	2.5600	50.00000	53.58240	ug/L	7	30	0.0500	
sec-Butylbenzene	3.6343	3.8366	50.00000	52.78230	ug/L	6	30	0.0500	
para-Isopropyl Toluene	2.6378	2.9550	50.00000	56.01200	ug/L	12	30	0.0500	
1,3-Dichlorobenzene	1.5293	1.6950	50.00000	55.41580	ug/L	11	30	0.0500	
1,4-Dichlorobenzene	1.5479	1.7260	50.00000	55.75430	ug/L	12	30	0.0500	
n-Butylbenzene	2.2643	2.5312	50.00000	55.89410	ug/L	12	30	0.0500	
1,2-Dichlorobenzene	1.4417	1.5514	50.00000	53.80490	ug/L	8	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1754	0.1511	50.00000	43.06890	ug/L	-14	30	0.0500	
1,2,4-Trichlorobenzene	0.7272	0.8371	50.00000	57.56230	ug/L	15	30	0.0500	
Hexachlorobutadiene	0.4497	0.4952	50.00000	55.05860	ug/L	10	30	0.0500	
Naphthalene	1.6081	1.7353	50.00000	53.95440	ug/L	8	30	0.0500	
1,2,3-Trichlorobenzene	0.6947	0.7591	50.00000	54.63360	ug/L	9	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0732	0.0675	500.0000	460.8145	ug/L	-8	30	0.0050	
Isopropyl Ether (DIPE)	2.0358	1.9925	50.00000	48.93610	ug/L	-2	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.6051	1.5814	50.00000	49.26160	ug/L	-1	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.8666	0.9109	50.00000	52.55290	ug/L	5	30	0.0500	
Cyclohexanone	0.0643	0.1122	500.0000	871.4843	ug/L	74	30	0.0050	c+ ***
Ethanol	0.0112	0.0104	5000.000	4642.000	ug/L	-7	30	5.0E-4	
Isopropanol	0.0563	0.0486	500.0000	432.0309	ug/L	-14	30	0.0050	
Tetrahydrofuran	0.2015	0.1807	500.0000	448.3592	ug/L	-10	30	0.0050	
Dibromofluoromethane	0.5004	0.4735	50.00000	47.30950	ug/L	-5	30	0.0500	
1,2-Dichloroethane-d4	0.2796	0.2708	50.00000	48.43720	ug/L	-3	30	0.0500	
Trifluorotoluene	0.4459	0.5879	50.00000	65.91990	ug/L	32	30	0.0500	c+
Toluene-d8	1.0808	1.0873	50.00000	50.29960	ug/L	1	30	0.0500	
Bromofluorobenzene	1.1713	1.0405	50.00000	44.41540	ug/L	-11	30	0.0500	

ISTD (ICAL=bi114)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	725020	1012044	39.59	11.87	11.86	-0.01
1,4-Difluorobenzene	1145706	1581401	38.03	13.09	13.09	0.00
Chlorobenzene-d5	1058421	1502691	41.97	17.65	17.65	0.00
1,4-Dichlorobenzene-d4	507875	772502	52.10	21.03	21.03	0.00

10/4/04

!=warning +=high bias c=CCV

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 04-OCT-2004
Sequence: 414400836 (bj4)
Instrument ID: MSVOA02

ICAL Filename: bil14
Date Analyzed: 21-SEP-2004
Time Analyzed: 20:12

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	725020	11.87	1145706	13.09	1058421	17.65	507875	21.03
LOWER LIMIT	362510	11.37	572853	12.59	529211	17.15	253938	20.53
UPPER LIMIT	1450040	12.37	2291412	13.59	2116842	18.15	1015750	21.53

TYPE	SAMPLE	#								
CCV	50PPB	003	1012044	11.86	1581401	13.09	1502691	17.65	772502	21.03
LCS	QC266726	004	922971	11.86	1400208	13.09	1428718	17.65	749637	21.02
BLANK	QC266727	006	968348	11.86	1567041	13.09	1490597	17.65	733629	21.02
SAMPLE	175015-005	007	834998	11.87	1297659	13.09	1266646	17.65	655493	21.03
MSS	175042-001	008	1081637	11.86	1741939	13.09	1605349	17.66	767779	21.03
SAMPLE	175042-002	009	1007585	11.87	1634336	13.09	1518313	17.65	724902	21.03
SAMPLE	175037-003	010	1007428	11.86	1651188	13.09	1530548	17.65	720364	21.03
MS	QC266784	011	966813	11.87	1579920	13.10	1528302	17.65	771235	21.03
MSD	QC266785	012	1034019	11.87	1652733	13.10	1565650	17.65	760433	21.03

MS VOA 2 8260 (60X) 60ML

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 414382147 Instrument: MSVOA02 HP GCMS VOA 02 Begun: 21-SEP-2004
nalytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
01	bi101	TUN	BFB			21-SEP-2004 09:07	1.0					1	
03	bi103	X	IB			21-SEP-2004 11:13	1.0					2	
04	bi104	X	IB			21-SEP-2004 11:46	1.0					2	
05	bi105	X	IB			21-SEP-2004 12:19	1.0					2	
06	bi106	TUN	BFB			21-SEP-2004 15:19	1.0					1	
07	bi107	X	IB			21-SEP-2004 16:20	1.0					2	
08	bi108	X	IB			21-SEP-2004 16:53	1.0					2	
09	bi109	X	IB			21-SEP-2004 17:26	1.0					2	
10	bi110	X	CALIB IB			21-SEP-2004 17:59	1.0					2	
11	bi111	ICAL	5PPB			21-SEP-2004 18:32	1.0					3 4 2	
12	bi112	ICAL	10PPB			21-SEP-2004 19:06	1.0					3 4 2	
13	bi113	ICAL	20PPB			21-SEP-2004 19:39	1.0					3 4 2	
14	bi114	ICAL	50PPB			21-SEP-2004 20:12	1.0					3 4 2	
15	bi115	ICAL	60PPB			21-SEP-2004 20:45	1.0					3 4 2	
16	bi116	ICAL	75PPB			21-SEP-2004 21:19	1.0					3 4 2	
17	bi117	ICAL	100PPB			21-SEP-2004 21:52	1.0					3 4 2	
18	bi118	ICV	50PPB			21-SEP-2004 22:26	1.0				5000	5 2	
19	bi119	ICV	50PPB			21-SEP-2004 22:59	1.0	2			5000	6 7 2	
20	bi120	X	IB			21-SEP-2004 23:32	1.0					2	
21	bi121	X	IB			22-SEP-2004 00:06	1.0					2	
22	bi122	X	IB			22-SEP-2004 00:39	1.0					2	

ICAL - Good (2-Cl NS) ICV - (F1137 Cl. Cyclohexanone ✓)
9/22/04

Stds used: 1=04WS1238 2=04WS1580 3=04WS1412 4=04SS331 5=04WS1726 6=04WS1554 7=04WS1544

Analyst: _____ Date: 9/22/04

9/28/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

3

Sequence: 414400836 Instrument: MSVOA02 HP GCMS VOA 02 Begun: 04-OCT-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	bj401	X	IB			04-OCT-2004 08:36	1.0						1	
002	bj402	TUN	BFB			04-OCT-2004 09:09	1.0						2	
003	bj403	CCV	50PPB			04-OCT-2004 09:28	1.0	1		5000			3 4 1	
004	bj404	LCS	QC266726	95125	Soil	04-OCT-2004 10:16	1.0	3		5000			5 6 7 1	
005	bj405	X	IB			04-OCT-2004 10:49	1.0						1	
006	bj406	BLANK	QC266727	95125	Soil	04-OCT-2004 11:23	1.0	2	1	5000			1	
007	bj407	SAMPLE	175015-005	95125	Soil	04-OCT-2004 12:08	1.111		1	5000	E	Soil	1	
008	bj408	MSS	175042-001	95125	Soil	04-OCT-2004 12:42	0.9259	1	1	5000	A-D		1	
009	bj409	SAMPLE	175042-002	95125	Soil	04-OCT-2004 13:16	0.9804		1	5000	I		1	
010	bj410	SAMPLE	175037-003	95125	Soil	04-OCT-2004 13:50	1.0			5000	A		1	
011	bj411	MS	QC266784	95125	Soil	04-OCT-2004 14:24	0.9259	3	1	5000	A-D		5 6 7 1	
012	bj412	MSD	QC266785	95125	Soil	04-OCT-2004 14:58	0.9259	3		5000	I		5 6 7 1	
013	bj413	X	IB			04-OCT-2004 15:31	1.0						1	
014	bj414	X	IB			04-OCT-2004 16:04	1.0						1	
015	bj415	X	IB			04-OCT-2004 16:39	1.0						1	

IBTC - Good (No 2-Clove NS/NT) ICV - FIB↑; Cyclohexanone ↓ CCV - Cyclohexanone ↑ CWC: Ace ↑; FIB ↑; CCl4 ↑; TPT ↑)

✓ NW 10/4/04

Stds used: 1=04WS1580 2=04WS1238 3=04WS1783 4=04SS352 5=04WS1726 6=04WS1554 7=04WS1544

Analyst: [signature] Date: 10/5/04

REPORTING SUMMARY FOR 175037 8260 Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
				C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
				1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B	P
				2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	P	1	U	H
											2					2				3						2			2				2		3	2		3																			2	3		2	2			2	3	3			
175037-003	MSVOA02	10/04/04	13:50	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC266726	MSVOA02	10/04/04	10:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC266727	MSVOA02	10/04/04	11:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC266784	MSVOA02	10/04/04	14:24	0.9259	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC266785	MSVOA02	10/04/04	14:58	0.9259	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 10/4/04

Prepped by: Ze

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	175042-1	5.4	ABCD		2	Comp 4 containers MSS/MSS/MS		
2	2 -2	5.1						
3	175037-3	5.0	A					
4	174931-1				3	RR 100X		
5	175058-1	5.7						
6	2	5.1						
7	175056-9	5.5						
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	174015-5	4.5	E		2	RR 1X		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
1,1-Dichloroethene	ug/Kg	08/25/04	0.70	01/07/04	0.71	02/13/04	0.45
Benzene	ug/Kg	08/25/04	0.58	01/07/04	0.43	02/16/04	0.055
Trichloroethene	ug/Kg	08/25/04	0.54	01/07/04	1.1	02/16/04	0.11
Toluene	ug/Kg	08/25/04	0.47	01/07/04	0.59	02/16/04	0.13
Chlorobenzene	ug/Kg	08/25/04	0.58	01/07/04	0.39	02/16/04	0.076
Freon 12	ug/Kg	08/25/04	0.49	01/07/04	1.4	02/16/04	0.084
Chloromethane	ug/Kg	08/25/04	0.82	01/07/04	0.90	02/16/04	0.12
Vinyl Chloride	ug/Kg	08/25/04	0.79	01/07/04	1.9	02/16/04	0.32
Bromomethane	ug/Kg	08/25/04	1.4	01/07/04	0.87	02/16/04	0.27
Chloroethane	ug/Kg	08/25/04	0.60	01/07/04	0.86	02/16/04	0.26
Trichlorofluoromethane	ug/Kg	08/25/04	0.80	01/07/04	0.73	02/16/04	0.15
Acetone	ug/Kg	08/25/04	1.7	01/07/04	2.9	02/13/04	1.0
Freon 113	ug/Kg	08/25/04	0.81	01/07/04	0.73	02/16/04	0.11
Methylene Chloride	ug/Kg	08/25/04	0.38	01/07/04	1.1	02/13/04	0.65
MTBE	ug/Kg	08/25/04	0.43	01/07/04	0.58	02/16/04	0.12
Carbon Disulfide	ug/Kg	08/31/04	4.0	01/07/04	0.92	02/16/04	0.10
trans-1,2-Dichloroethene	ug/Kg	08/25/04	0.47	01/07/04	0.54	02/16/04	0.20
Vinyl Acetate	ug/Kg	08/25/04	0.66	01/07/04	0.68	02/16/04	0.073
1,1-Dichloroethane	ug/Kg	08/25/04	0.48	01/07/04	0.45	02/16/04	0.085
2-Butanone	ug/Kg	08/25/04	2.0	01/07/04	1.6	02/16/04	0.12
cis-1,2-Dichloroethene	ug/Kg	08/25/04	0.79	01/07/04	0.31	02/16/04	0.095
2,2-Dichloropropane	ug/Kg	08/25/04	0.78	01/07/04	0.86	02/16/04	0.058
Chloroform	ug/Kg	08/25/04	0.72	01/07/04	0.44	02/16/04	0.12
Bromochloromethane	ug/Kg	08/25/04	0.56	01/07/04	0.74	02/16/04	0.13
1,1,1-Trichloroethane	ug/Kg	08/25/04	1.0	01/07/04	0.50	02/16/04	0.13
1,1-Dichloropropene	ug/Kg	08/25/04	0.65	01/07/04	0.90	02/16/04	0.081
Carbon Tetrachloride	ug/Kg	08/25/04	0.59	01/07/04	0.45	02/13/04	0.36
1,2-Dichloroethane	ug/Kg	08/25/04	0.51	01/07/04	0.66	02/16/04	0.091
1,2-Dichloropropane	ug/Kg	08/25/04	0.99	01/07/04	0.44	02/16/04	0.096
Bromodichloromethane	ug/Kg	08/25/04	0.71	01/07/04	0.41	02/16/04	0.13
Dibromomethane	ug/Kg	08/25/04	0.59	01/07/04	0.69	02/16/04	0.16
2-Chloroethylvinylether	ug/Kg	01/30/03	0.25	08/08/03	0.37	02/12/03	0.31
4-Methyl-2-Pentanone	ug/Kg	08/25/04	1.6	01/07/04	0.73	02/13/04	0.25
Tetramethyl THF	ug/Kg	08/25/04	0.88	01/07/04	0.43		
cis-1,3-Dichloropropene	ug/Kg	08/25/04	0.52	01/07/04	0.41	02/13/04	0.26
trans-1,3-Dichloropropene	ug/Kg	08/25/04	0.80	01/07/04	0.54	02/16/04	0.091
1,1,2-Trichloroethane	ug/Kg	08/25/04	0.78	01/07/04	0.55	02/16/04	0.25
2-Hexanone	ug/Kg	08/25/04	0.81	01/07/04	0.50	02/16/04	0.12
1,3-Dichloropropane	ug/Kg	08/25/04	0.51	01/07/04	0.41	02/16/04	0.048
Tetrachloroethene	ug/Kg	08/25/04	0.61	01/07/04	0.58	02/16/04	0.085
Dibromochloromethane	ug/Kg	08/25/04	0.50	01/07/04	0.40	02/16/04	0.073
1,2-Dibromoethane	ug/Kg	08/25/04	0.42	01/07/04	0.35	02/16/04	0.10
1,1,1,2-Tetrachloroethane	ug/Kg	08/25/04	0.58	01/07/04	0.67	02/16/04	0.11
Ethylbenzene	ug/Kg	08/25/04	0.42	01/07/04	0.49	02/16/04	0.065
m,p-Xylenes	ug/Kg	08/25/04	1.2	01/07/04	1.3	02/16/04	0.18
o-Xylene	ug/Kg	08/25/04	0.33	01/07/04	0.77	02/16/04	0.092
Styrene	ug/Kg	08/25/04	0.34	01/07/04	0.46	02/16/04	0.057
Bromoform	ug/Kg	08/25/04	0.82	01/07/04	0.38	02/16/04	0.18
Isopropylbenzene	ug/Kg	08/25/04	0.71	01/07/04	0.58	02/16/04	0.098
1,1,2,2-Tetrachloroethane	ug/Kg	08/25/04	0.95	01/07/04	0.48	02/16/04	0.082
1,2,3-Trichloropropane	ug/Kg	08/25/04	1.5	01/07/04	0.91	02/16/04	0.18

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
Propylbenzene	ug/Kg	08/25/04	0.65	01/07/04	0.53	02/16/04	0.078
Bromobenzene	ug/Kg	08/25/04	0.85	01/07/04	0.37	02/16/04	0.18
1,3,5-Trimethylbenzene	ug/Kg	08/25/04	0.74	01/07/04	1.2	02/16/04	0.069
2-Chlorotoluene	ug/Kg	08/25/04	0.58	01/07/04	0.60	02/16/04	0.089
4-Chlorotoluene	ug/Kg	08/25/04	0.59	01/07/04	0.62	02/16/04	0.099
tert-Butylbenzene	ug/Kg	08/25/04	0.50	01/07/04	0.56	02/16/04	0.069
1,2,4-Trimethylbenzene	ug/Kg	08/25/04	0.79	01/07/04	1.8	02/16/04	0.069
sec-Butylbenzene	ug/Kg	08/25/04	0.70	01/07/04	0.83	02/16/04	0.073
para-Isopropyl Toluene	ug/Kg	08/25/04	0.68	01/07/04	1.2	02/16/04	0.12
1,3-Dichlorobenzene	ug/Kg	08/25/04	0.63	01/07/04	0.32	02/16/04	0.13
1,4-Dichlorobenzene	ug/Kg	08/25/04	0.56	01/07/04	0.57	02/16/04	0.12
n-Butylbenzene	ug/Kg	08/25/04	0.85	01/07/04	2.2	02/16/04	0.11
1,2-Dichlorobenzene	ug/Kg	08/25/04	0.40	01/07/04	0.49	02/16/04	0.11
1,2-Dibromo-3-Chloropropane	ug/Kg	08/31/04	1.5	01/07/04	0.57	02/13/04	0.56
1,2,4-Trichlorobenzene	ug/Kg	08/25/04	0.84	01/07/04	2.7	02/16/04	0.23
Hexachlorobutadiene	ug/Kg	08/25/04	1.1	01/07/04	0.89	02/16/04	0.081
Naphthalene	ug/Kg	08/25/04	0.76	01/07/04	2.5	02/16/04	0.15
1,2,3-Trichlorobenzene	ug/Kg	08/25/04	0.60	01/07/04	2.5	02/16/04	0.16
tert-Butyl Alcohol (TBA)	ug/Kg	08/25/04	13	12/22/03	10	09/22/04	8.8
Isopropyl Ether (DIPE)	ug/Kg	08/25/04	0.48	12/22/03	0.65	09/22/04	0.52
Ethyl tert-Butyl Ether (ETBE)	ug/Kg	08/25/04	0.20	12/22/03	0.79	09/22/04	0.42
Methyl tert-Amyl Ether (TAME)	ug/Kg	08/25/04	0.48	12/22/03	0.68	09/22/04	0.64
Isopropanol	ug/Kg	08/25/04	22	12/22/03	9.3	09/22/04	9.0
Ethanol	ug/Kg	08/25/04	84	12/22/03	72	09/22/04	150
Cyclohexanone	ug/Kg	08/25/04	2.0			09/22/04	14
Tetrahydrofuran	ug/Kg	08/25/04	1.2				
Gasoline C6-C10	mg/Kg					09/07/04	0.018
Gasoline C7-C12	mg/Kg					09/07/04	0.014
Dibromofluoromethane	ug/Kg	08/25/04	2.4	08/08/03	3.0		
1,2-Dichloroethane-d4	ug/Kg	08/25/04	2.7	08/08/03	2.9		
Toluene-d8	ug/Kg	08/25/04	2.4	08/08/03	2.2		
Bromofluorobenzene	ug/Kg	08/25/04	4.2	08/08/03	2.3		
Trifluorotoluene	ug/Kg	08/25/04	0.41				

SEMI-VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX130[0.5]	Batch#:	95183
Lab ID:	175037-003	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/05/04
Basis:	dry	Analyzed:	10/07/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	24
Phenol	ND	340	22
bis(2-Chloroethyl)ether	ND	340	23
2-Chlorophenol	ND	340	26
1,3-Dichlorobenzene	ND	340	20
1,4-Dichlorobenzene	ND	340	20
Benzyl alcohol	ND	340	26
1,2-Dichlorobenzene	ND	340	18
2-Methylphenol	ND	340	21
bis(2-Chloroisopropyl) ether	ND	340	28
4-Methylphenol	ND	340	23
N-Nitroso-di-n-propylamine	ND	340	21
Hexachloroethane	ND	340	19
Nitrobenzene	ND	340	28
Isophorone	ND	340	21
2-Nitrophenol	ND	670	21
2,4-Dimethylphenol	ND	340	64
Benzoic acid	ND	1,700	260
bis(2-Chloroethoxy)methane	ND	340	23
2,4-Dichlorophenol	ND	340	29
1,2,4-Trichlorobenzene	ND	340	23
Naphthalene	ND	340	19
4-Chloroaniline	ND	340	32
Hexachlorobutadiene	ND	340	23
4-Chloro-3-methylphenol	ND	340	28
2-Methylnaphthalene	ND	340	22
Hexachlorocyclopentadiene	ND	1,700	30
2,4,6-Trichlorophenol	ND	340	28
2,4,5-Trichlorophenol	ND	340	30
2-Chloronaphthalene	ND	340	18
2-Nitroaniline	ND	670	29
Dimethylphthalate	ND	340	27
Acenaphthylene	ND	340	21
2,6-Dinitrotoluene	ND	340	27
3-Nitroaniline	ND	670	13
Acenaphthene	ND	670	10
2,4-Dinitrophenol	ND	1,700	320
4-Nitrophenol	ND	670	39
Dibenzofuran	ND	340	23
2,4-Dinitrotoluene	ND	340	28
Diethylphthalate	ND	340	28
Fluorene	ND	340	11
4-Chlorophenyl-phenylether	ND	340	26
4-Nitroaniline	ND	670	21
4,6-Dinitro-2-methylphenol	ND	1,700	270
N-Nitrosodiphenylamine	ND	340	27
Azobenzene	ND	340	28
4-Bromophenyl-phenylether	ND	340	26
Hexachlorobenzene	ND	340	24
Pentachlorophenol	ND	670	44
Phenanthrene	ND	340	10

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX130[0.5]	Batch#:	95183
Lab ID:	175037-003	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/05/04
Basis:	dry	Analyzed:	10/07/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Anthracene	ND	340	10
Di-n-butylphthalate	ND	340	32
Fluoranthene	ND	340	13
Pyrene	ND	340	10
Butylbenzylphthalate	ND	340	35
3,3'-Dichlorobenzidine	ND	670	47
Benzo(a)anthracene	ND	67	30
Chrysene	ND	340	11
bis(2-Ethylhexyl)phthalate	ND	340	37
Di-n-octylphthalate	ND	340	31
Benzo(b)fluoranthene	ND	67	26
Benzo(k)fluoranthene	ND	67	10
Benzo(a)pyrene	ND	67	9.9
Indeno(1,2,3-cd)pyrene	ND	67	9.7
Dibenz(a,h)anthracene	ND	67	10
Benzo(g,h,i)perylene	ND	340	10

Surrogate	%REC	Limits
2-Fluorophenol	61	25-121
Phenol-d5	59	24-113
2,4,6-Tribromophenol	60	19-122
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	70	30-115
Terphenyl-d14	65	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC266935	Batch#:	95183
Matrix:	Soil	Prepared:	10/05/04
Units:	ug/Kg	Analyzed:	10/05/04
Basis:	as received		

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	41
Phenol	ND	340	35
bis(2-Chloroethyl)ether	ND	340	37
2-Chlorophenol	ND	340	33
1,3-Dichlorobenzene	ND	340	24
1,4-Dichlorobenzene	ND	340	27
Benzyl alcohol	ND	340	27
1,2-Dichlorobenzene	ND	340	23
2-Methylphenol	ND	340	36
bis(2-Chloroisopropyl) ether	ND	340	24
4-Methylphenol	ND	340	36
N-Nitroso-di-n-propylamine	ND	340	26
Hexachloroethane	ND	340	26
Nitrobenzene	ND	340	41
Isophorone	ND	340	27
2-Nitrophenol	ND	670	24
2,4-Dimethylphenol	ND	340	52
Benzoic acid	ND	1,700	210
bis(2-Chloroethoxy)methane	ND	340	26
2,4-Dichlorophenol	ND	340	24
1,2,4-Trichlorobenzene	ND	340	33
Naphthalene	ND	340	30
4-Chloroaniline	ND	340	26
Hexachlorobutadiene	ND	340	32
4-Chloro-3-methylphenol	ND	340	27
2-Methylnaphthalene	ND	340	26
Hexachlorocyclopentadiene	ND	1,700	31
2,4,6-Trichlorophenol	ND	340	31
2,4,5-Trichlorophenol	ND	340	44
2-Chloronaphthalene	ND	340	22
2-Nitroaniline	ND	670	35
Dimethylphthalate	ND	340	29
Acenaphthylene	ND	340	11
2,6-Dinitrotoluene	ND	340	25
3-Nitroaniline	ND	670	20
Acenaphthene	ND	670	23
2,4-Dinitrophenol	ND	1,700	230
4-Nitrophenol	ND	670	36
Dibenzofuran	ND	340	30
2,4-Dinitrotoluene	ND	340	44
Diethylphthalate	ND	340	30
Fluorene	ND	340	30
4-Chlorophenyl-phenylether	ND	340	27
4-Nitroaniline	ND	670	29
4,6-Dinitro-2-methylphenol	ND	1,700	230
N-Nitrosodiphenylamine	ND	340	18
Azobenzene	ND	340	27
4-Bromophenyl-phenylether	ND	340	29
Hexachlorobenzene	ND	340	25
Pentachlorophenol	ND	670	24
Phenanthrene	ND	340	27
Anthracene	ND	340	32
Di-n-butylphthalate	ND	340	27

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC266935	Batch#:	95183
Matrix:	Soil	Prepared:	10/05/04
Units:	ug/Kg	Analyzed:	10/05/04
Basis:	as received		

Analyte	Result	RL	MDL
Fluoranthene	ND	340	31
Pyrene	ND	340	21
Butylbenzylphthalate	ND	340	28
3,3'-Dichlorobenzidine	ND	670	32
Benzo(a)anthracene	ND	67	29
Chrysene	ND	340	28
bis(2-Ethylhexyl)phthalate	ND	340	41
Di-n-octylphthalate	ND	340	33
Benzo(b)fluoranthene	ND	67	26
Benzo(k)fluoranthene	ND	67	32
Benzo(a)pyrene	ND	67	33
Indeno(1,2,3-cd)pyrene	ND	67	31
Dibenz(a,h)anthracene	ND	67	33
Benzo(g,h,i)perylene	ND	340	28

Surrogate	%REC	Limits
2-Fluorophenol	76	25-121
Phenol-d5	67	24-113
2,4,6-Tribromophenol	59	19-122
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	67	30-115
Terphenyl-d14	68	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC266936	Batch#:	95183
Matrix:	Soil	Prepared:	10/05/04
Units:	ug/Kg	Analyzed:	10/05/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,298	1,889	57	40-119
2-Chlorophenol	3,298	2,328	71	39-119
1,4-Dichlorobenzene	1,649	1,014	61	36-111
N-Nitroso-di-n-propylamine	1,649	1,037	63	35-117
1,2,4-Trichlorobenzene	1,649	998.3	61	36-107
4-Chloro-3-methylphenol	3,298	2,242	68	41-122
Acenaphthene	1,649	1,045	63	36-111
4-Nitrophenol	3,298	2,077	63	45-130
2,4-Dinitrotoluene	1,649	1,108	67	43-114
Pentachlorophenol	3,298	1,691	51	39-119
Pyrene	1,649	1,113	68	35-142

Surrogate	%REC	Limits
2-Fluorophenol	71	25-121
Phenol-d5	66	24-113
2,4,6-Tribromophenol	71	19-122
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	68	30-115
Terphenyl-d14	64	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	95183
MSS Lab ID:	175015-008	Sampled:	09/29/04
Matrix:	Soil	Received:	09/30/04
Units:	ug/Kg	Prepared:	10/05/04
Basis:	dry	Analyzed:	10/06/04
Diln Fac:	1.000		

Type: MS Moisture: 19%
Lab ID: QC266937

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<41.98	4,091	2,435	60	26-100
2-Chlorophenol	<39.51	4,091	2,937	72	25-102
1,4-Dichlorobenzene	<33.33	2,045	1,303	64	28-104
N-Nitroso-di-n-propylamine	<30.86	2,045	1,298	63	41-126
1,2,4-Trichlorobenzene	<40.74	2,045	1,282	63	38-107
4-Chloro-3-methylphenol	<33.33	4,091	2,744	67	26-103
Acenaphthene	<28.40	2,045	1,355	66	31-137
4-Nitrophenol	<43.21	4,091	2,600	64	11-114
2,4-Dinitrotoluene	<53.09	2,045	1,438	70	28-100
Pentachlorophenol	693.6	4,091	1,462	19	17-109
Pyrene	36.71	2,045	1,633	78	35-142

Surrogate	%REC	Limits
2-Fluorophenol	74	25-121
Phenol-d5	66	24-113
2,4,6-Tribromophenol	70	19-122
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	67	30-115
Terphenyl-d14	71	18-137

Type: MSD Moisture: 19%
Lab ID: QC266938

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	4,141	2,672	65	26-100	8	35
2-Chlorophenol	4,141	3,368	81	25-102	12	50
1,4-Dichlorobenzene	2,071	1,438	69	28-104	9	27
N-Nitroso-di-n-propylamine	2,071	1,457	70	41-126	10	38
1,2,4-Trichlorobenzene	2,071	1,470	71	38-107	12	23
4-Chloro-3-methylphenol	4,141	2,951	71	26-103	6	33
Acenaphthene	2,071	1,417	68	31-137	3	19
4-Nitrophenol	4,141	2,502	60	11-114	5	50
2,4-Dinitrotoluene	2,071	1,492	72	28-100	2	47
Pentachlorophenol	4,141	1,627	23	17-109	10	48
Pyrene	2,071	1,827	86	35-142	10	36

Surrogate	%REC	Limits
2-Fluorophenol	81	25-121
Phenol-d5	69	24-113
2,4,6-Tribromophenol	66	19-122
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	71	30-115
Terphenyl-d14	79	18-137

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ107.D

Date : 01-OCT-2004 18:37

Client ID: dftpp tune std

Instrument: MSBNA02.i

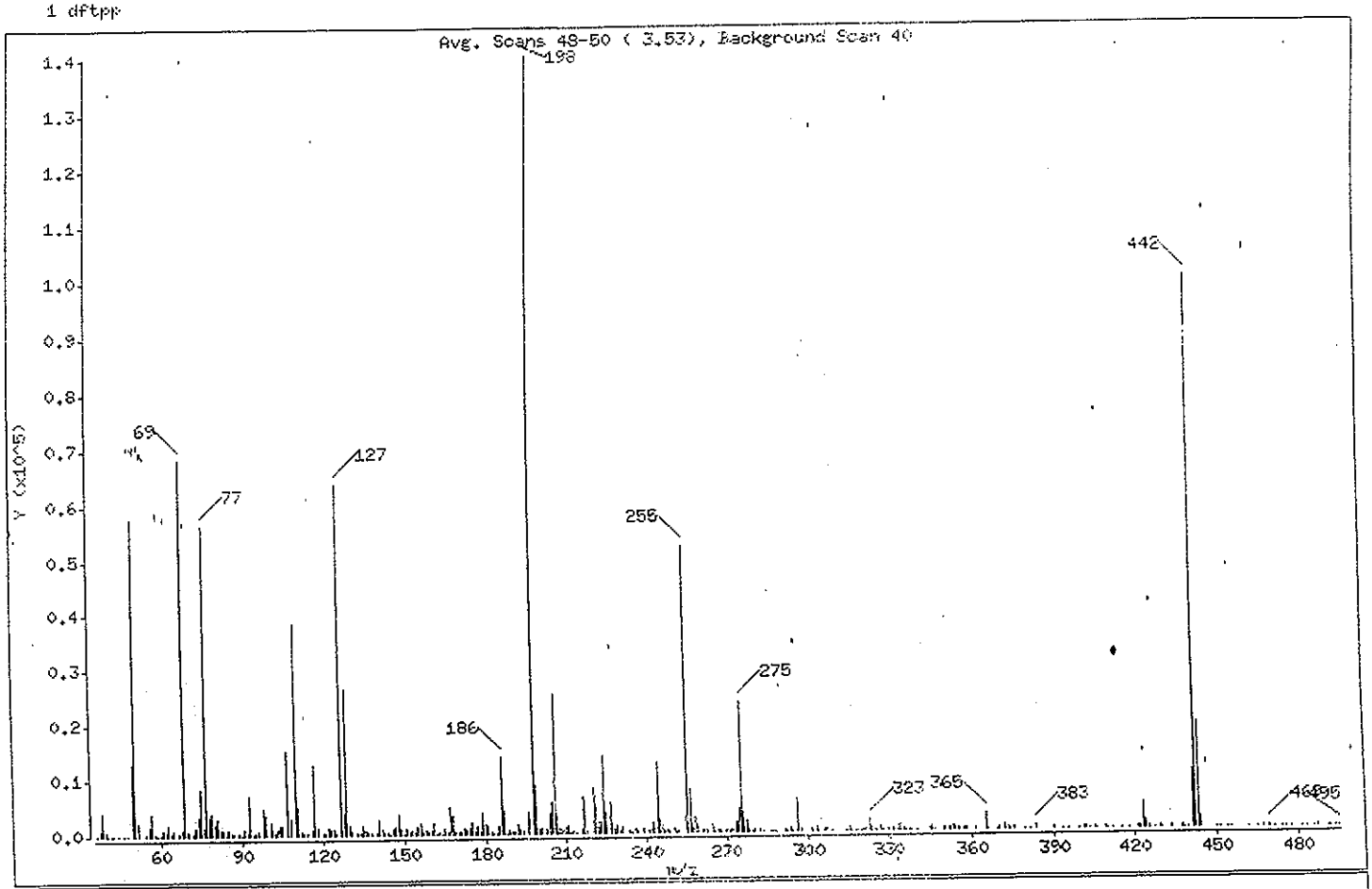
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	41.09
68	Less than 1.99% of mass 69	0.78 (1.61)
69	Mass 69 relative abundance	48.54
70	Less than 2.00% of mass 69	0.37 (0.76)
127	40.00 - 60.00% of mass 198	45.37
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.16
275	10.00 - 30.00% of mass 198	16.81
365	Greater than 1.00% of mass 198	2.06
441	Present, but less than mass 443	7.30
442	40.00 - 99.99% of mass 198	71.27
443	17.00 - 23.00% of mass 442	13.55 (19.01)

8270 GCMS

10/2/04

10/04/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100504.b\UJ518.D

Date : 05-OCT-2004 20:52

Client ID: dftpp tune std

Instrument: MSBNA02.i

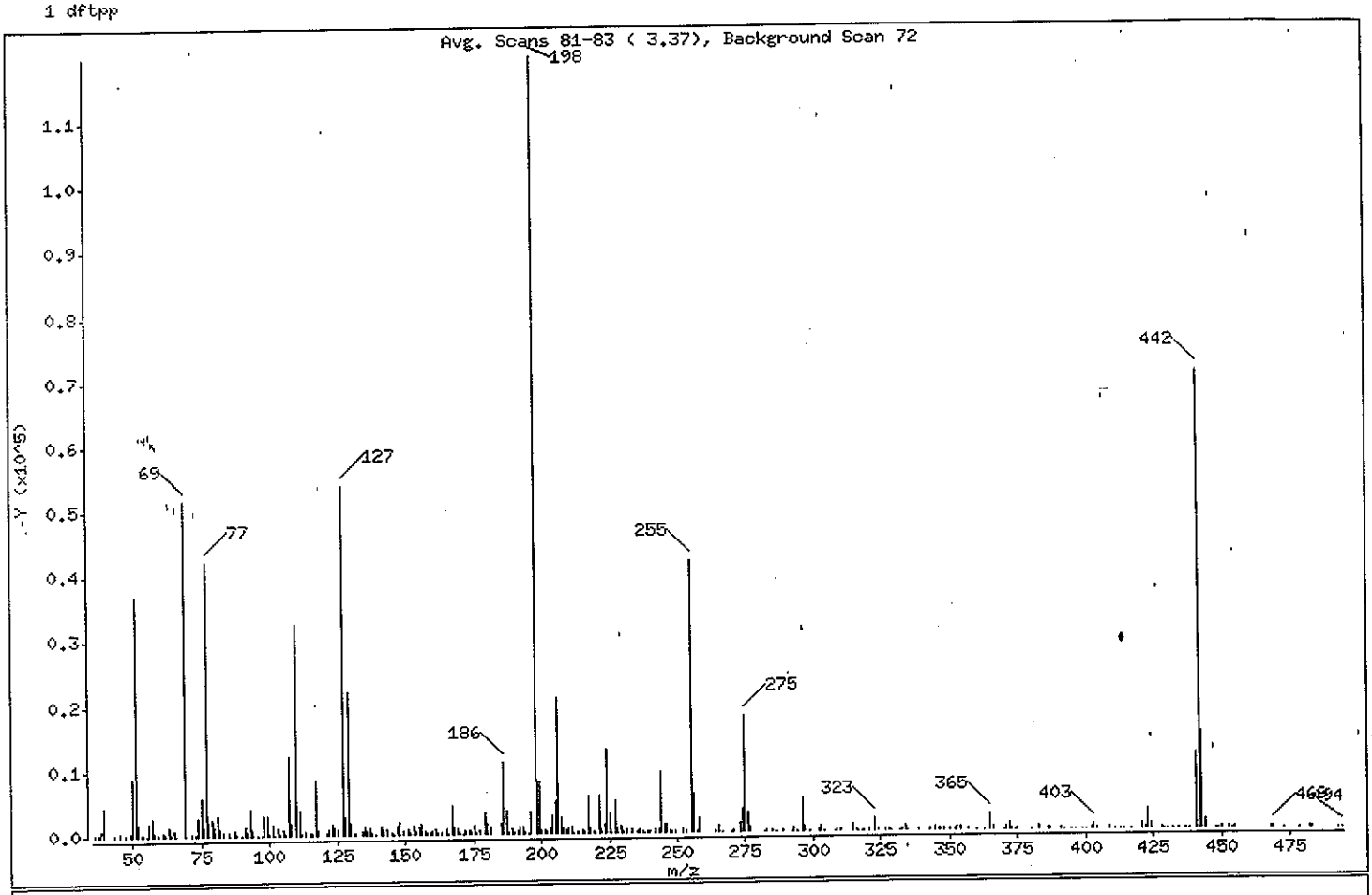
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.85
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.20
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	44.95
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	15.05
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	9.78
442	40.00 - 99.99% of mass 198	59.05
443	17.00 - 23.00% of mass 442	12.53 (21.22)

Ok

Satisfactory

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ601.D

Date : 06-OCT-2004 10:05

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

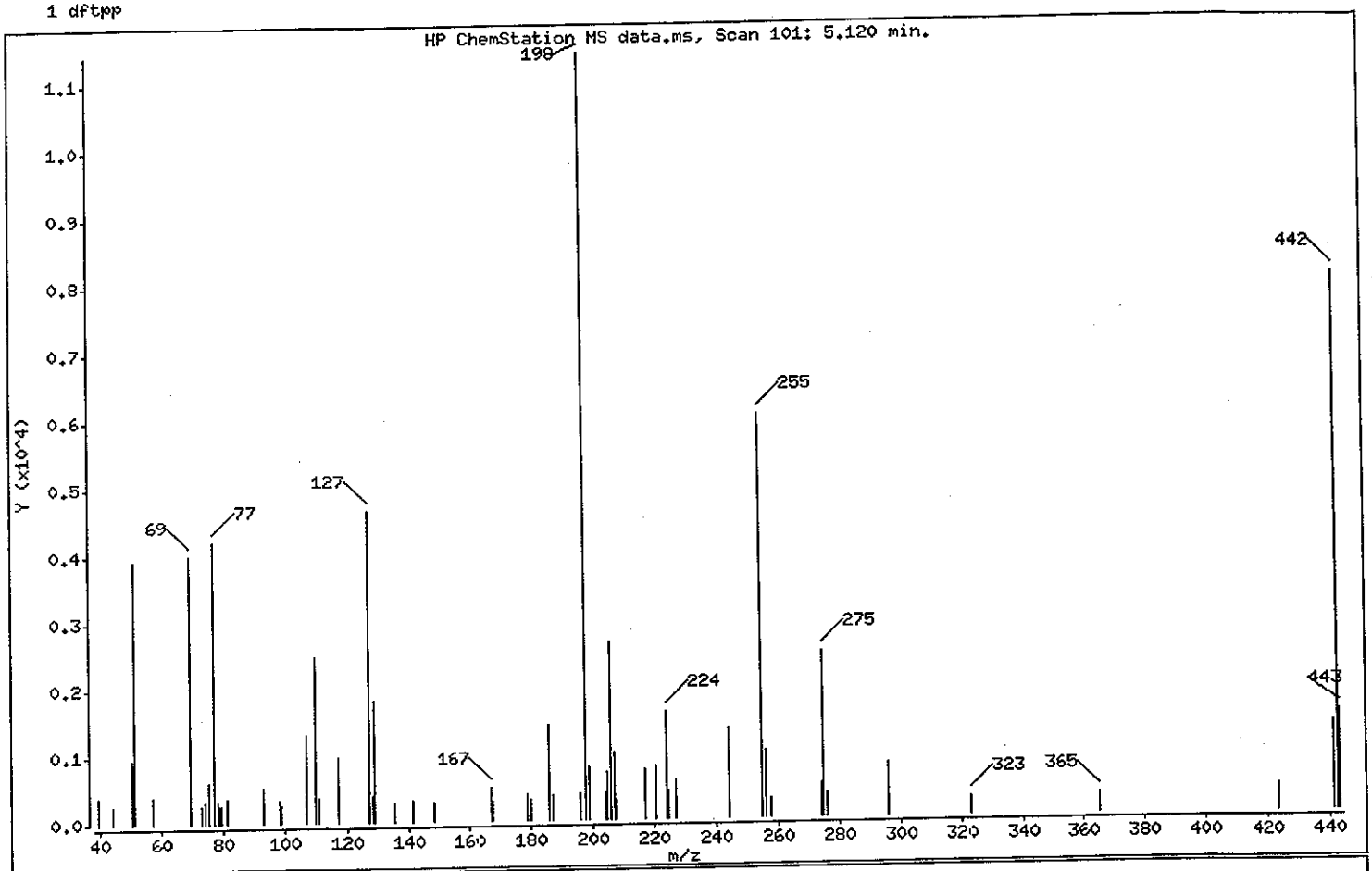
Instrument: MSBNA05.i

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.41
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.95
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	40.80
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	21.70
365	Greater than 1.00% of mass 198	2.44
441	Present, but less than mass 443	11.44
442	40.00 - 99.99% of mass 198	70.30
443	17.00 - 23.00% of mass 442	13.10 (18.63)

10/07/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100704.b\XJ701.D

Date : 07-OCT-2004 10:03

Client ID: dftpp tune std

Instrument: MSBNA05.i

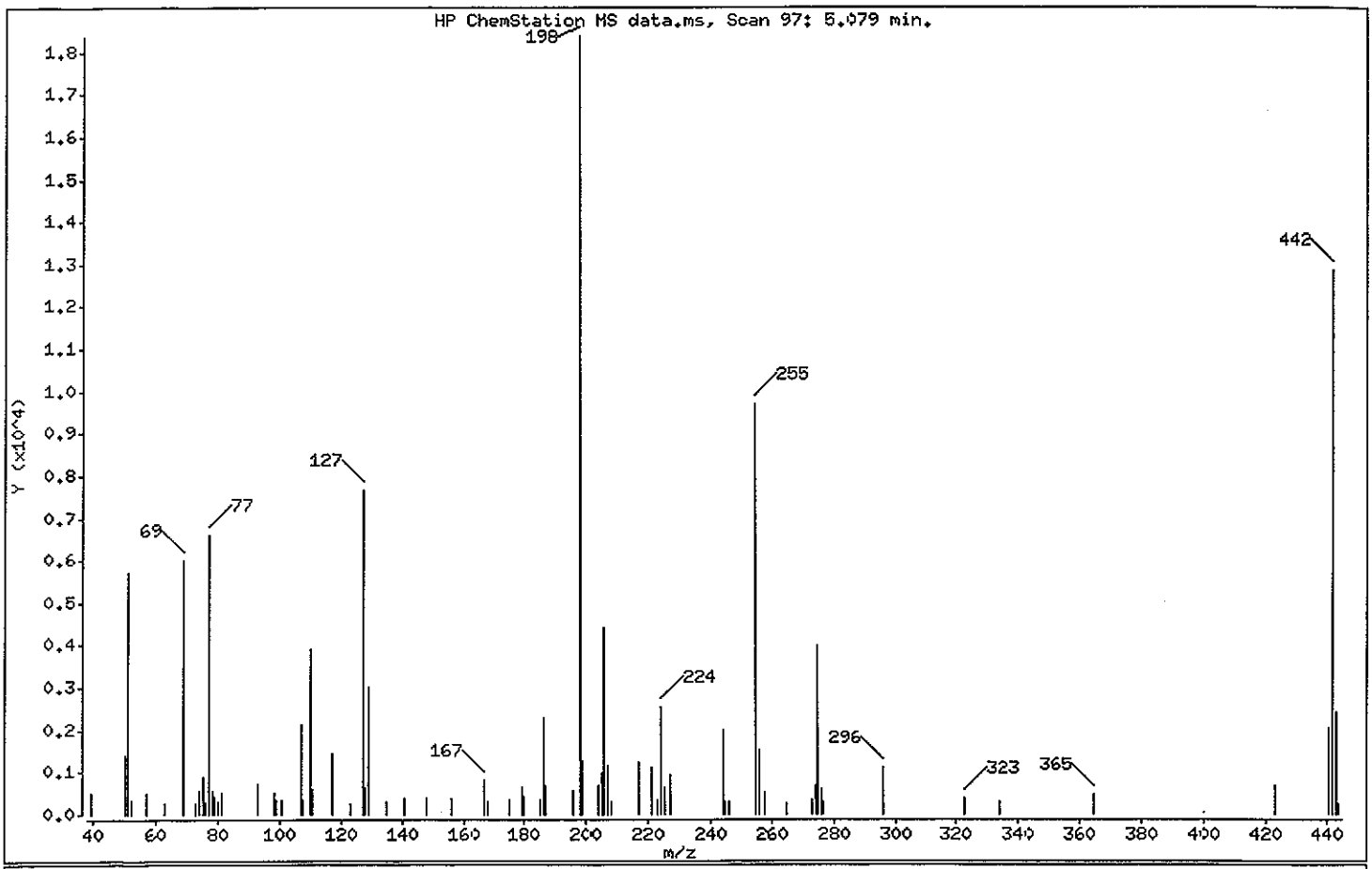
Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.00
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	32.69
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.68
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.98
275	10.00 - 30.00% of mass 198	21.74
365	Greater than 1.00% of mass 198	2.53
441	Present, but less than mass 443	10.98
442	40.00 - 99.99% of mass 198	70.03
443	17.00 - 23.00% of mass 442	13.03 (18.61)

10/07/04

BNA02 8270 Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA02 HP GCMS BNA 02 Reviewed By:
Calnum: 514396535001 Name: 6PTBNA2 Type: (normal) Date: 01-OCT-2004 19:51 Inj Vol (uL): 1

See quant report for manual integrations due to splitting/tailing.

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	uj109	514396535009	ICAL 2ug/ml	01-OCT-2004 19:51	04WS1376
2	uj110	514396535010	ICAL 10ug/ml	01-OCT-2004 20:34	04WS1377
3	uj111	514396535011	ICAL 20ug/ml	01-OCT-2004 21:16	04WS1378
4	uj112	514396535012	ICAL 50ug/ml	01-OCT-2004 21:58	04WS1379
5	uj113	514396535013	ICAL 80ug/ml	01-OCT-2004 22:40	04WS1380
6	uj114	514396535014	ICAL 120ug/ml	01-OCT-2004 23:22	04WS1381
7	uj115	514396535015	ICAL 160ug/ml	02-OCT-2004 00:04	04WS1382

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.5905	0.6040	0.5770	0.5350	0.5389	0.5452	AVRG	R		1.769567		ng	0.5651	5	0.0500	0.99	15	
Pyridine		1.2364m	1.2986	1.3209	1.2830	1.3312	1.3157	AVRG	R		0.770626		ng	1.2976	3	0.0500	0.99	15	
Phenol		1.9197	2.0699	2.0076	1.9741	1.9946	1.9491	AVRG	R		0.503565		ng	1.9858	3	0.0500	0.99	15	
Aniline		0.0080m	0.0158	0.0112	0.0119	0.0127	0.0162	QUAD	R	-3.28371	102.1442	-15.0213	ng	0.0126	0.995	0.0500	0.99	15	irf ***
bis(2-Chloroethyl)ether		1.0617	1.1099	1.0816	1.0249	1.0529	1.1050	AVRG	R		0.932248		ng	1.0727	3	0.0500	0.99	15	
2-Chlorophenol		1.4031	1.4968	1.4850	1.5165	1.5051	1.5408	AVRG	R		0.670586		ng	1.4912	3	0.0500	0.99	15	
1,3-Dichlorobenzene		1.3449	1.4770	1.5000	1.4939	1.5522	1.5828	AVRG	R		0.670335		ng	1.4918	6	0.0500	0.99	15	
1,4-Dichlorobenzene		1.4884	1.5161	1.5877	1.5756	1.6032	1.6099	AVRG	R		0.639606		ng	1.5635	3	0.0500	0.99	15	
Benzyl alcohol		0.8212	0.8973	0.8466	0.9543	0.9894	0.9656	AVRG	R		1.096025		ng	0.9124	7	0.0500	0.99	15	
1,2-Dichlorobenzene		1.2959	1.4707	1.4506	1.6015	1.7100	1.6303	AVRG	R		0.655098		ng	1.5265	10	0.0500	0.99	15	
2-Methylphenol		1.0650	1.0595	1.1304	1.1080	1.0795	1.0340	AVRG	R		0.926458		ng	1.0794	3	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		2.7560	2.9443	2.6700	2.5854	2.4715	2.3583	AVRG	R		0.380092		ng	2.6309	8	0.0500	0.99	15	
4-Methylphenol		1.4821	1.6664	1.7236	1.6332	1.6269	1.6652	AVRG	R		0.612409		ng	1.6329	5	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.7729	0.8070	0.8096	0.7858m	0.7676m	0.8079m	AVRG	R		1.262982		ng	0.7918	2	0.0500	0.99	15	
Hexachloroethane		0.6539	0.7258	0.6868	0.6894	0.7145	0.7218	AVRG	R		1.431254		ng	0.6987	4	0.0500	0.99	15	
Nitrobenzene		0.3227	0.3217	0.3357	0.3498	0.3192	0.3489	AVRG	R		3.003082		ng	0.3330	4	0.0500	0.99	15	
Isophorone		0.6797	0.6928	0.7276	0.7004	0.6904m	0.7316	AVRG	R		1.420961		ng	0.7037	3	0.0500	0.99	15	
2-Nitrophenol		0.2116	0.2148	0.2434	0.2519	0.2615	0.2810	AVRG	R		4.097514		ng	0.2441	11	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL: Oh except Aniline & Benzidine fail low RF - NO

CCV: Aniline ↓; Benzoic Acid ↑; Benzidine ↑ fail 8D

AK 10/04/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA02 HP GCMS BNA 02 Reviewed By:
Calnum: 514396535001 Name: 6PTBNA2 Type: (normal) Date: 01-OCT-2004 19:51 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2530	0.2625	0.2785	0.2697	0.2865	0.3025	AVRG	R		3.630521		ng	0.2754	6	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.5090	0.4802	0.5075	0.5069	0.4999	0.5144	AVRG	R		1.988153		ng	0.5030	2	0.0500	0.99	15	
Benzoic acid		0.0127m	0.0316m	0.0860	0.1045m	0.1295m	0.1599m	QUAD	R	12.07430	9.082248	-0.12985	ng	0.0874	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.2849	0.2828	0.3081	0.3359	0.3444	0.3591	AVRG	R		3.133162		ng	0.3192	10	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3253	0.3186	0.3559	0.3656	0.3603	0.3798	AVRG	R		2.849721		ng	0.3509	7	0.0500	0.99	15	
Naphthalene	1.1087	1.0659	1.0704	1.1230	1.0499	1.0059	0.8964	AVRG	R		0.956271		ng	1.0457	7	0.0500	0.99	15	
4-Chloroaniline		0.4277	0.4389	0.4765	0.5020	0.4961	0.5118	AVRG	R		2.103086		ng	0.4755	7	0.0500	0.99	15	
Hexachlorobutadiene		0.1806	0.1781	0.2083	0.2347	0.2258	0.2370	AVRG	R		4.745107		ng	0.2107	13	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2856	0.3039	0.3262	0.3357	0.3353	0.3561	AVRG	R		3.088286		ng	0.3238	8	0.0500	0.99	15	
2-Methylnaphthalene	0.6969	0.6756	0.6536	0.7733	0.7741	0.7902	0.7967	AVRG	R		1.356470		ng	0.7372	8	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.1215	0.1468	0.2361	0.2351	0.2882	0.3072	QUAD	R	6.828612	4.029349	-0.01906	ng	0.2225	0.998	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3583	0.4052	0.4499	0.4401	0.4674	0.4859	AVRG	R		2.301704		ng	0.4345	11	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3867	0.4263	0.4362	0.4366	0.4535	0.4790	AVRG	R		2.291533		ng	0.4364	7	0.0500	0.99	15	
2-Chloronaphthalene		1.0398	1.1313	1.1675	1.1685	1.2091	1.2229	AVRG	R		0.864678		ng	1.1565	6	0.0500	0.99	15	
2-Nitroaniline		0.3056	0.3197	0.3382	0.3301	0.3349	0.3408	AVRG	R		3.046729		ng	0.3282	4	0.0500	0.99	15	
Dimethylphthalate		1.2510	1.3996	1.4124	1.3535	1.4109	1.4164	AVRG	R		0.727828		ng	1.3740	5	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2851	0.3311	0.3403	0.3517	0.3626	0.4048	AVRG	R		2.890811		ng	0.3459	11	0.0500	0.99	15	
Acenaphthylene	1.7834	1.8106	1.8449	1.9909	1.9438	1.8961	1.8933	AVRG	R		0.531789		ng	1.8804	4	0.0500	0.99	15	
3-Nitroaniline		0.3333	0.3437	0.3956	0.4009	0.3999	0.4187	AVRG	R		2.617780		ng	0.3820	9	0.0500	0.99	15	
Acenaphthene	1.1060	0.9591	1.1162	1.1609	1.1535	1.1976	1.2532	AVRG	R		0.880899		ng	1.1352	8	0.0500	0.99	15	
2,4-Dinitrophenol		0.0509	0.0970	0.1673	0.1973	0.2175	0.2380	QUAD	R	9.227898	4.933761	-0.02575	ng	0.1613	1.000	0.0500	0.99	15	
4-Nitrophenol		0.0748	0.0996	0.1194	0.1183	0.1235	0.1276	QUAD	R	3.445797	8.251963	-0.02797	ng	0.1105	1.000	0.0500	0.99	15	
Dibenzofuran		1.5204	1.6176	1.7462	1.6936	1.7678	1.7261	AVRG	R		0.595720		ng	1.6786	6	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3776	0.3950	0.4296	0.4087	0.4245	0.4268	AVRG	R		2.436888		ng	0.4104	5	0.0500	0.99	15	
Diethylphthalate		1.3712	1.4473	1.4717	1.4326	1.4939	1.4349	AVRG	R		0.693512		ng	1.4419	3	0.0500	0.99	15	
Fluorene	1.2167	1.1294	1.2562	1.3385	1.3479	1.3459	1.3702	AVRG	R		0.777360		ng	1.2864	7	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6006	0.6378	0.7024	0.7021	0.7614	0.7960	AVRG	R		1.428440		ng	0.7001	10	0.0500	0.99	15	
4-Nitroaniline		0.2974	0.3095	0.3325	0.3260	0.3244	0.3404	AVRG	R		3.108393		ng	0.3217	5	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.0919	0.1299	0.1684	0.1818	0.1926	0.2017	QUAD	R	5.582748	5.407734	-0.01941	ng	0.1611	1.000	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.4917	0.5139	0.5745	0.6317	0.6520	0.6641	AVRG	R		1.700698		ng	0.5880	12	0.0500	0.99	15	
Azobenzene		0.7791	0.8433	0.8567	0.9445	0.9949	0.9800	AVRG	R		1.111415		ng	0.8998	10	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA02 HP GCMS BNA 02 Reviewed By:
Calnum: 514396535001 Name: 6PTBNA2 Type: (normal) Date: 01-OCT-2004 19:51 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2128	0.2347	0.2611	0.3003	0.3124	0.3123	QUAD	R	4.775951	3.246823	-0.00324	ng	0.2723	0.999	0.0500	0.99	15	
Hexachlorobenzene		0.2418	0.2692	0.2950	0.3254	0.3339	0.3410	AVRG	R		3.321836		ng	0.3010	13	0.0500	0.99	15	
Pentachlorophenol			0.0878	0.1344	0.1721	0.1920	0.2032	LINR	R	16.47766	4.468284		ng	0.1579	0.997	0.0500	0.99	15	
Phenanthrene	1.0382	0.9780	1.0911	1.1462	1.2254	1.2189	1.2551	AVRG	R		0.880189		ng	1.1361	9	0.0500	0.99	15	
Anthracene	1.0167	0.9798	1.0248	1.1042	1.2339	1.2228	1.1223	AVRG	R		0.908557		ng	1.1006	9	0.0500	0.99	15	
Carbazole		0.9094	0.9535	0.9811	1.0716	1.1034	1.0946	AVRG	R		0.981427		ng	1.0189	8	0.0500	0.99	15	
Di-n-butylphthalate		1.4937	1.6208	1.7183	1.6268	1.5579	1.4786	AVRG	R		0.631841		ng	1.5827	6	0.0500	0.99	15	
Fluoranthene	1.1007	1.0461	1.0878	1.1712	1.2571	1.2763	1.2106	AVRG	R		0.858914		ng	1.1643	8	0.0500	0.99	15	
Benzidine		0.0231	0.0186	0.0214	0.0420	0.0327	0.0264	AVRG	R		36.57113		ng	0.0273	32	0.0500	0.99	15	irf rsd ***
Pyrene	1.6093	1.6131	1.5827	1.7068	1.7436	1.6601	1.5720	AVRG	R		0.609346		ng	1.6411	4	0.0500	0.99	15	
Butylbenzylphthalate		0.6625	0.7378	0.8281	0.8756	0.8874	0.9136	AVRG	R		1.223251		ng	0.8175	12	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3868	0.4120	0.4761	0.4907	0.4686	0.4522	AVRG	R		2.233516		ng	0.4477	9	0.0500	0.99	15	
Benzo(a)anthracene	1.2171	1.2781	1.3071	1.3618	1.3717	1.2922	1.2403	AVRG	R		0.771924		ng	1.2955	4	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.8406	0.9521	0.9858	1.0462	1.0993	1.0781	AVRG	R		0.999639		ng	1.0004	10	0.0500	0.99	15	
Chrysene	1.1273	1.0449	1.1156	1.1500	1.2149	1.1477	1.1450	AVRG	R		0.881020		ng	1.1350	4	0.0500	0.99	15	
Di-n-octylphthalate		1.4570	1.7281	2.3038	2.7330	3.0340	3.2487	QUAD	R	6.750933	0.368356	-0.00014	ng	2.4174	0.999	0.0500	0.99	15	
Benzo(b)fluoranthene	1.2069	1.3377	1.4887	1.6946	1.7863	1.9773		QUAD	R	1.224333	0.626199	-0.00053	ng	1.5819	1.000	0.0500	0.99	15	
Benzo(k)fluoranthene	1.4459	1.4672	1.4483	1.8674	1.8834	1.8632	1.9966m	AVRG	R		0.584700		ng	1.7103	14	0.0500	0.99	15	
Benzo(a)pyrene	0.9893	1.1582	1.1513	1.4096	1.4813	1.5658		QUAD	R	1.743235	0.725593	-0.00052	ng	1.2926	1.000	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	0.8442	1.0472	1.1206	1.2709	1.2124	1.2291	1.1579	AVRG	R		0.888058		ng	1.1261	13	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.6794	0.7786	0.8941	1.0276	0.9663	0.9804	0.9711	AVRG	R		1.111570		ng	0.8996	14	0.0500	0.99	15	
Benzo(g,h,i)perylene	0.7561	0.8225	0.8725	0.9749	0.9081	0.9258	0.8474	AVRG	R		1.146179		ng	0.8725	8	0.0500	0.99	15	
2-Fluorophenol		1.3050	1.3925	1.3994	1.3198	1.3752	1.3712	AVRG	R		0.735031		ng	1.3605	3	0.0500	0.99	15	
Phenol-d5		1.6580	1.8098	1.7974	1.8718	1.8855	1.8834	AVRG	R		0.550161		ng	1.8176	5	0.0500	0.99	15	
Nitrobenzene-d5		0.3527	0.3392	0.3513	0.3669	0.3576	0.3829	AVRG	R		2.789871		ng	0.3584	4	0.0500	0.99	15	
2-Fluorobiphenyl		1.1894	1.3091	1.3809	1.3737	1.3551	1.4015	AVRG	R		0.749091		ng	1.3350	6	0.0500	0.99	15	
2,4,6-Tribromophenol		0.1910	0.2139	0.2378	0.2517	0.2704	0.2725	AVRG	R		4.174650		ng	0.2395	13	0.0500	0.99	15	
Terphenyl-d14		1.0680	1.0930	1.2107	1.2503	1.2645	1.2115	AVRG	R		0.845302		ng	1.1830	7	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ109.D
Report Date: 02-Oct-2004 19:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ109.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 01-OCT-2004 19:51 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1376
Misc Info : ICAL 2ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:11 target Quant Type: ISTD
Cal Date : 01-OCT-2004 19:51 Cal File: UJ109.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	3.369	3.377	(0.471)	10258	2.00000	0.8397(aQ)
	2 Pyridine	79	3.420	3.356	(0.479)	11723	2.00000	0.4179(aQ)
$	3 2-Fluorophenol	112	5.396	5.394	(0.755)	56923	2.00000	1.9356(a)
$	4 Phenol-d5	99	6.634	6.673	(0.928)	73500	2.00000	1.8707(a)
	5 Phenol	94	6.655	6.694	(0.931)	90713	2.00000	2.1132(aQ)
	6 Aniline	66	6.665	6.796	(0.933)	46918	2.00000	147.6552(Q)
	7 bis(2-Chloroethyl)ether	63	6.778	6.796	(0.948)	44010	2.00000	1.8980(aQ)
	8 2-Chlorophenol	128	6.829	6.858	(0.956)	60907	2.00000	1.8895(aQ)
	9 1,3-Dichlorobenzene	146	7.064	7.073	(0.989)	60007	2.00000	1.8608(aQ)
*	10 1,4-Dichlorobenzene-d4	152	7.146	7.155	(1.000)	864634	40.0000	
	11 1,4-Dichlorobenzene	146	7.177	7.185	(1.004)	64340	2.00000	1.9037(aQ)
	12 Benzyl alcohol	108	7.371	7.400	(1.032)	30152	2.00000	1.5288(aQ)
	13 1,2-Dichlorobenzene	146	7.402	7.410	(1.036)	62077	2.00000	1.8813(aQ)
	14 2-Methylphenol	107	7.556	7.584	(1.057)	39562	2.00000	1.6956(aQ)
	15 bis(2-Chloroisopropyl) ether	45	7.586	7.605	(1.062)	125748	2.00000	2.2111(a)
	16 4-Methylphenol	107	7.801	7.851	(1.092)	63897	2.00000	1.8102(aQ)
	17 N-Nitroso-di-n-propylamine	70	7.791	7.840	(1.090)	31144	2.00000	1.8196(aQ)
	18 Hexachloroethane	117	7.924	7.933	(1.109)	30439	2.00000	2.0154(aQ)
$	19 Nitrobenzene-d5	82	8.027	8.055	(0.867)	51701	2.00000	2.0031(a)
	20 Nitrobenzene	77	8.057	8.086	(0.871)	47729	2.00000	1.9906(aQ)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ109.D
Report Date: 02-Oct-2004 19:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.457	8.506	(0.914)	103495	2.00000	2.0424(a)
	22 2,4-Dimethylphenol	122	8.702	8.741	(0.940)	36347	2.00000	1.8326(aQ)
	23 2-Nitrophenol	139	8.600	8.618	(0.929)	29332	2.00000	1.6691(aQ)
	24 Benzoic acid	122	8.887	9.059	(0.960)	2039	2.00000	12.3313(Q)
	25 bis(2-Chloroethoxy)methane	93	8.856	8.895	(0.957)	72247	2.00000	1.9948(aQ)
	26 2,4-Dichlorophenol	162	9.020	9.059	(0.975)	40943	2.00000	1.7815(aQ)
	27 1,2,4-Trichlorobenzene	180	9.163	9.181	(0.990)	50116	2.00000	1.9834(aQ)
*	28 Naphthalene-d8	136	9.255	9.274	(1.000)	2880184	40.0000	
	29 Naphthalene	128	9.286	9.315	(1.003)	159666	2.00000	2.1204(a)
	30 4-Chloroaniline	127	9.419	9.448	(1.018)	63293	2.00000	1.8486(a)
	31 Hexachlorobutadiene	225	9.532	9.550	(1.030)	27036	2.00000	1.7816(aQ)
	32 4-Chloro-3-methylphenol	107	10.351	10.379	(1.118)	41111	2.00000	1.7632(aQ)
	33 2-Methylnaphthalene	142	10.576	10.604	(1.143)	100364	2.00000	1.8907(aQ)
	34 Hexachlorocyclopentadiene	237	10.893	10.901	(0.864)	3513	2.00000	7.2034(Q)
	35 2,4,6-Trichlorophenol	196	11.149	11.168	(0.885)	24778	2.00000	1.5109(aQ)
	36 2,4,5-Trichlorophenol	196	11.210	11.239	(0.890)	27774	2.00000	1.6861(aQ)
$	37 2-Fluorobiphenyl	172	11.313	11.331	(0.898)	98991	2.00000	1.9645(a)
	38 2-Chloronaphthalene	162	11.507	11.536	(0.913)	82663	2.00000	1.8936(aQ)
	39 2-Nitroaniline	65	11.743	11.782	(0.932)	23355	2.00000	1.8851(aQ)
	40 Dimethylphthalate	163	12.142	12.181	(0.963)	100056	2.00000	1.9293(a)
	41 2,6-Dinitrotoluene	165	12.255	12.304	(0.972)	20337	2.00000	1.5575(aQ)
	42 Acenaphthylene	152	12.306	12.335	(0.976)	134634	2.00000	1.8968(a)
	43 3-Nitroaniline	138	12.562	12.621	(0.997)	20899	2.00000	1.4494(aQ)
*	44 Acenaphthene-d10	164	12.603	12.621	(1.000)	1509821	40.0000	
	45 Acenaphthene	154	12.664	12.693	(1.005)	83494	2.00000	1.9485(aQ)
	47 4-Nitrophenol	109	12.971	13.020	(1.029)	3950	2.00000	4.3090(aQ)
	48 2,4-Dinitrotoluene	165	13.043	13.102	(1.035)	24807	2.00000	1.6015(aQ)
	49 Dibenzofuran	168	13.002	13.041	(1.032)	126652	2.00000	1.9988(aQ)
	50 Diethylphthalate	149	13.555	13.604	(1.076)	107434	2.00000	1.9739(a)
	51 4-Chlorophenyl-phenylether	204	13.729	13.747	(1.089)	44298	2.00000	1.6764(aQ)
	52 Fluorene	166	13.688	13.717	(1.086)	91853	2.00000	1.8916(aQ)
	53 4-Nitroaniline	138	13.770	13.870	(1.093)	21447	2.00000	1.7661(aQ)
	54 4,6-Dinitro-2-methylphenol	198	13.852	13.932	(0.890)	2850	2.00000	5.8419(aQ)
	55 N-Nitrosodiphenylamine	169	13.975	14.024	(0.898)	62493	2.00000	1.7879(aQ)
	56 Azobenzene	77	14.036	14.075	(0.902)	103057	2.00000	1.9268(a)
$	57 2,4,6-Tribromophenol	330	14.179	14.208	(1.125)	12437	2.00000	1.3755(a)
	58 4-Bromophenyl-phenylether	248	14.701	14.730	(0.945)	24670	2.00000	6.1229(Q)
	59 Hexachlorobenzene	284	14.793	14.832	(0.951)	27593	2.00000	1.5419(aQ)
*	61 Phenanthrene-d10	188	15.561	15.570	(1.000)	2377690	40.0000	
	62 Phenanthrene	178	15.592	15.631	(1.002)	123424	2.00000	1.8275(a)
	63 Anthracene	178	15.694	15.733	(1.009)	120871	2.00000	1.8474(a)
	64 Carbazole	167	16.063	16.102	(1.032)	116638	2.00000	1.9257(a)
	65 Di-n-butylphthalate	149	16.861	16.879	(1.084)	171276	2.00000	1.8205(a)
	66 Fluoranthene	202	17.988	18.016	(1.156)	130857	2.00000	1.8908(a)
	68 Pyrene	202	18.428	18.467	(0.883)	134598	2.00000	1.9612(a)
$	69 Terphenyl-d14	244	18.817	18.846	(0.901)	81032	2.00000	1.6379(a)
	70 Butylbenzylphthalate	149	19.861	19.879	(0.951)	30605	2.00000	0.8952(aQ)
	71 bis(2-Ethylhexyl)phthalate	149	21.059	21.067	(1.009)	48904	2.00000	1.1690(a)
	72 3,3'-Dichlorobenzidine	252	20.864	20.903	(1.000)	23722	2.00000	1.2669(aQ)
	73 Benzo(a)anthracene	228	20.854	20.883	(0.999)	101798	2.00000	1.8790(a)
*	74 Chrysene-d12	240	20.874	20.903	(1.000)	1672748	40.0000	
	75 Chrysene	228	20.926	20.965	(1.002)	94283	2.00000	1.9863(a)
	76 Di-n-octylphthalate	149	22.308	22.326	(0.944)	44721	2.00000	7.2984
	77 Benzo(b)fluoranthene	252	22.912	22.951	(0.970)	72576	2.00000	2.7327(a)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ109.D
Report Date: 02-Oct-2004 19:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
78 Benzo(k)fluoranthene	252	22.963	23.012	(0.972)	86947	2.00000	1.6907(aA)
79 Benzo(a)pyrene	252	23.505	23.544	(0.995)	59493	2.00000	3.1768(a)
* 80 Perylene-d12	264	23.628	23.637	(1.000)	1202710	40.0000	
81 Dibenz(a,h)anthracene	278	25.481	25.510	(1.078)	40859	2.00000	1.5105(a)
82 Indeno(1,2,3-cd)pyrene	276	25.451	25.479	(1.077)	50768	2.00000	1.4994(aQ)
83 Benzo(g,h,i)perylene	276	25.860	25.899	(1.094)	45466	2.00000	1.7331(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ110.D
Report Date: 02-Oct-2004 19:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.454	8.506	(0.914)	618936	10.0000	9.6585
	22 2,4-Dimethylphenol	122	8.700	8.741	(0.940)	230359	10.0000	9.1845 (Q)
	23 2-Nitrophenol	139	8.597	8.618	(0.929)	192686	10.0000	8.6707 (Q)
	24 Benzoic acid	122	8.884	9.059	(0.960)	11550	10.0000	13.2242 (M)
	25 bis(2-Chloroethoxy)methane	93	8.864	8.895	(0.958)	463479	10.0000	10.1196 (Q)
	26 2,4-Dichlorophenol	162	9.017	9.059	(0.975)	259385	10.0000	8.9250 (Q)
	27 1,2,4-Trichlorobenzene	180	9.171	9.181	(0.991)	296169	10.0000	9.2688 (Q)
*	28 Naphthalene-d8	136	9.253	9.274	(1.000)	3642297	40.0000	
	29 Naphthalene	128	9.294	9.315	(1.004)	970564	10.0000	10.1927
	30 4-Chloroaniline	127	9.416	9.448	(1.018)	389420	10.0000	8.9941 (Q)
	31 Hexachlorobutadiene	225	9.539	9.550	(1.031)	164413	10.0000	8.5677 (Q)
	32 4-Chloro-3-methylphenol	107	10.358	10.379	(1.119)	260061	10.0000	8.8201 (Q)
	33 2-Methylnaphthalene	142	10.583	10.604	(1.144)	615179	10.0000	9.1642 (Q)
	34 Hexachlorocyclopentadiene	237	10.901	10.901	(0.864)	58861	10.0000	11.6960 (Q)
	35 2,4,6-Trichlorophenol	196	11.147	11.168	(0.884)	173569	10.0000	8.2462 (Q)
	36 2,4,5-Trichlorophenol	196	11.208	11.239	(0.889)	187338	10.0000	8.8611 (Q)
$	37 2-Fluorobiphenyl	172	11.310	11.331	(0.897)	576207	10.0000	8.9094
	38 2-Chloronaphthalene	162	11.515	11.536	(0.913)	503744	10.0000	8.9908 (Q)
	39 2-Nitroaniline	65	11.740	11.782	(0.931)	148065	10.0000	9.3115 (aQ)
	40 Dimethylphthalate	163	12.150	12.181	(0.963)	606052	10.0000	9.1049
	41 2,6-Dinitrotoluene	165	12.252	12.304	(0.972)	138125	10.0000	8.2419 (Q)
	42 Acenaphthylene	152	12.314	12.335	(0.976)	877193	10.0000	9.6287
	43 3-Nitroaniline	138	12.570	12.621	(0.997)	161450	10.0000	8.7238 (aQ)
*	44 Acenaphthene-d10	164	12.610	12.621	(1.000)	1937863	40.0000	
	45 Acenaphthene	154	12.662	12.693	(1.004)	464629	10.0000	8.4482 (Q)
	46 2,4-Dinitrophenol	184	12.795	12.836	(1.015)	24647	10.0000	11.7312 (aQ)
	47 4-Nitrophenol	109	12.959	13.020	(1.028)	36234	10.0000	9.6019 (aQH)
	48 2,4-Dinitrotoluene	165	13.051	13.102	(1.035)	182929	10.0000	9.2014 (Q)
	49 Dibenzofuran	168	13.010	13.041	(1.032)	736602	10.0000	9.0575 (Q)
	50 Diethylphthalate	149	13.563	13.604	(1.075)	664300	10.0000	9.5094
	51 4-Chlorophenyl-phenylether	204	13.726	13.747	(1.088)	290976	10.0000	8.5793 (Q)
	52 Fluorene	166	13.685	13.717	(1.085)	547163	10.0000	8.7796 (Q)
	53 4-Nitroaniline	138	13.778	13.870	(1.093)	144101	10.0000	9.2457 (aQ)
	54 4,6-Dinitro-2-methylphenol	198	13.859	13.932	(0.891)	68893	10.0000	10.5387 (aQ)
	55 N-Nitrosodiphenylamine	169	13.972	14.024	(0.898)	368422	10.0000	8.3627 (Q)
	56 Azobenzene	77	14.044	14.075	(0.903)	583718	10.0000	8.6587
$	57 2,4,6-Tribromophenol	330	14.177	14.208	(1.124)	92541	10.0000	7.9742
	58 4-Bromophenyl-phenylether	248	14.699	14.730	(0.945)	159417	10.0000	11.6695 (Q)
	59 Hexachlorobenzene	284	14.801	14.832	(0.951)	181147	10.0000	8.0312 (Q)
	60 Pentachlorophenol	266	15.221	15.242	(0.978)	45393	10.0000	19.1847 (aQ)
*	61 Phenanthrene-d10	188	15.559	15.570	(1.000)	2996981	40.0000	
	62 Phenanthrene	178	15.600	15.631	(1.003)	732749	10.0000	8.6080
	63 Anthracene	178	15.702	15.733	(1.009)	734077	10.0000	8.9016
	64 Carbazole	167	16.060	16.102	(1.032)	681400	10.0000	8.9255
	65 Di-n-butylphthalate	149	16.859	16.879	(1.084)	1119139	10.0000	9.4377
	66 Fluoranthene	202	17.985	18.016	(1.156)	783754	10.0000	8.9847
	67 Benzidine	184	18.323	18.334	(0.877)	11970	10.0000	8.4317
	68 Pyrene	202	18.425	18.467	(0.882)	837497	10.0000	9.8295
$	69 Terphenyl-d14	244	18.825	18.846	(0.901)	554485	10.0000	9.0279
	70 Butylbenzylphthalate	149	19.859	19.879	(0.951)	343941	10.0000	8.1037 (Q)
	71 bis(2-Ethylhexyl)phthalate	149	21.056	21.067	(1.008)	436420	10.0000	8.4029
	72 3,3'-Dichlorobenzidine	252	20.862	20.903	(0.999)	200803	10.0000	8.6386 (aQ)
	73 Benzo(a)anthracene	228	20.862	20.883	(0.999)	663535	10.0000	9.8656
*	74 Chrysene-d12	240	20.882	20.903	(1.000)	2076701	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ110.D
Report Date: 02-Oct-2004 19:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ110.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 01-OCT-2004 20:34 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1377
Misc Info : ICAL 10ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:12 target Quant Type: ISTD
Cal Date : 01-OCT-2004 20:34 Cal File: UJ110.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

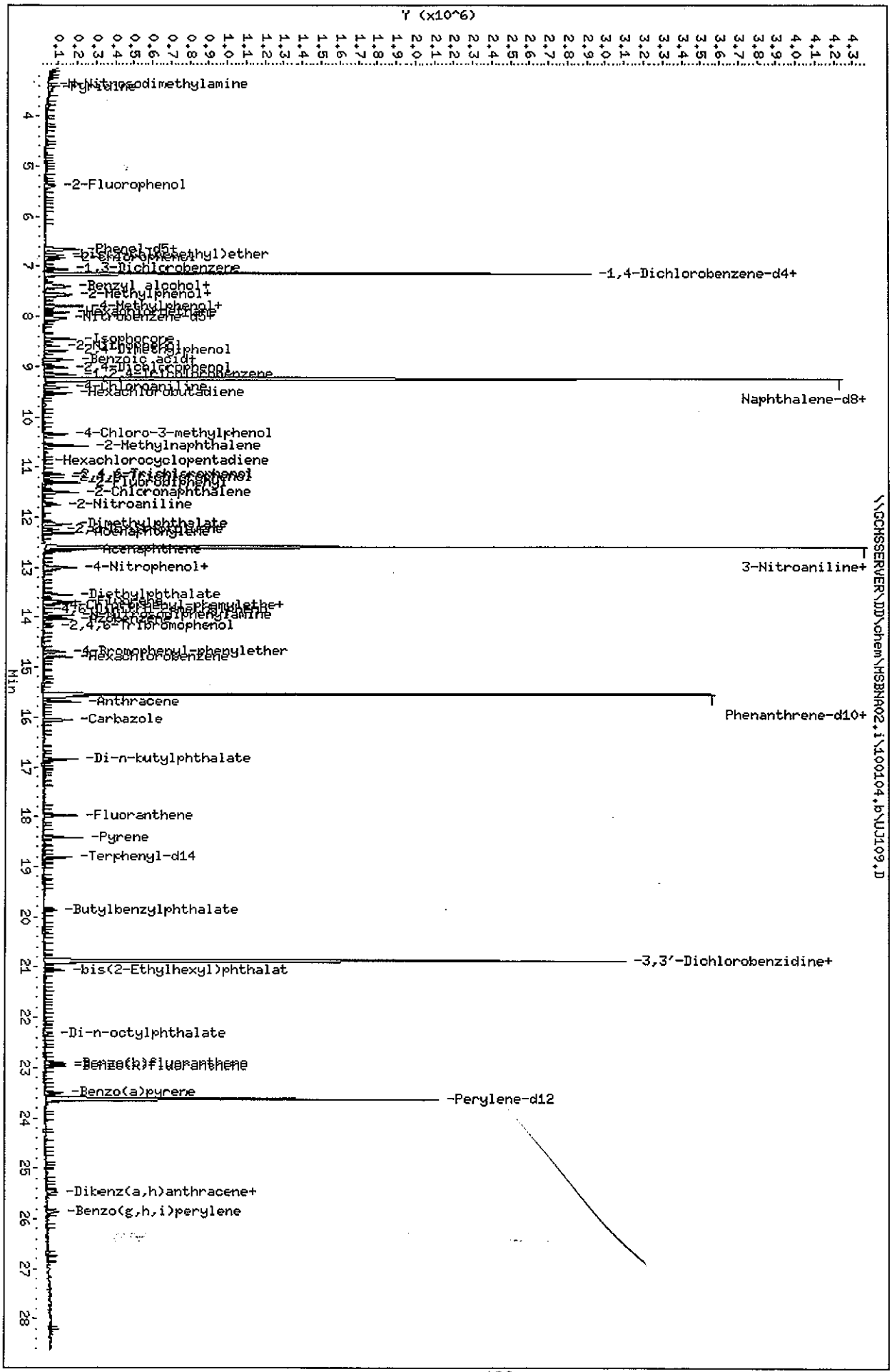
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	3.376	3.377	(0.472)	154448	10.0000	10.4498(Q)
2 Pyridine	79	3.356	3.356	(0.469)	323357	10.0000	9.5277(QM)
$ 3 2-Fluorophenol	112	5.393	5.394	(0.754)	341308	10.0000	9.5921
$ 4 Phenol-d5	99	6.642	6.673	(0.928)	433639	10.0000	9.1218
5 Phenol	94	6.652	6.694	(0.930)	502080	10.0000	9.6669(Q)
6 Aniline	66	6.775	6.796	(0.947)	2084	10.0000	4.7599(aQMH)
7 bis(2-Chloroethyl)ether	63	6.775	6.796	(0.947)	277689	10.0000	9.8981(Q)
8 2-Chlorophenol	128	6.837	6.858	(0.956)	366968	10.0000	9.4090(Q)
9 1,3-Dichlorobenzene	146	7.062	7.073	(0.987)	351753	10.0000	9.0155(Q)
* 10 1,4-Dichlorobenzene-d4	152	7.154	7.155	(1.000)	1046159	40.0000	
11 1,4-Dichlorobenzene	146	7.174	7.185	(1.003)	389285	10.0000	9.5201(Q)
12 Benzyl alcohol	108	7.369	7.400	(1.030)	214771	10.0000	9.0003(Q)
13 1,2-Dichlorobenzene	146	7.400	7.410	(1.034)	338930	10.0000	8.4894(Q)
14 2-Methylphenol	107	7.553	7.584	(1.056)	278537	10.0000	9.8666(Q)
15 bis(2-Chloroisopropyl) ether	45	7.584	7.605	(1.060)	720797	10.0000	10.4752
16 4-Methylphenol	107	7.799	7.851	(1.090)	387630	10.0000	9.0765(Q)
17 N-Nitroso-di-n-propylamine	70	7.789	7.840	(1.089)	202149	10.0000	9.7618(Q)
18 Hexachloroethane	117	7.932	7.933	(1.109)	171014	10.0000	9.3585(Q)
$ 19 Nitrobenzene-d5	82	8.024	8.055	(0.867)	321194	10.0000	9.8409
20 Nitrobenzene	77	8.055	8.086	(0.871)	293832	10.0000	9.6906(Q)

15/2/02

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ109.D
Date : 01-OCT-2004 19:51
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04MS1376
Volume Injected (ul): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ110.D
Report Date: 02-Oct-2004 19:12

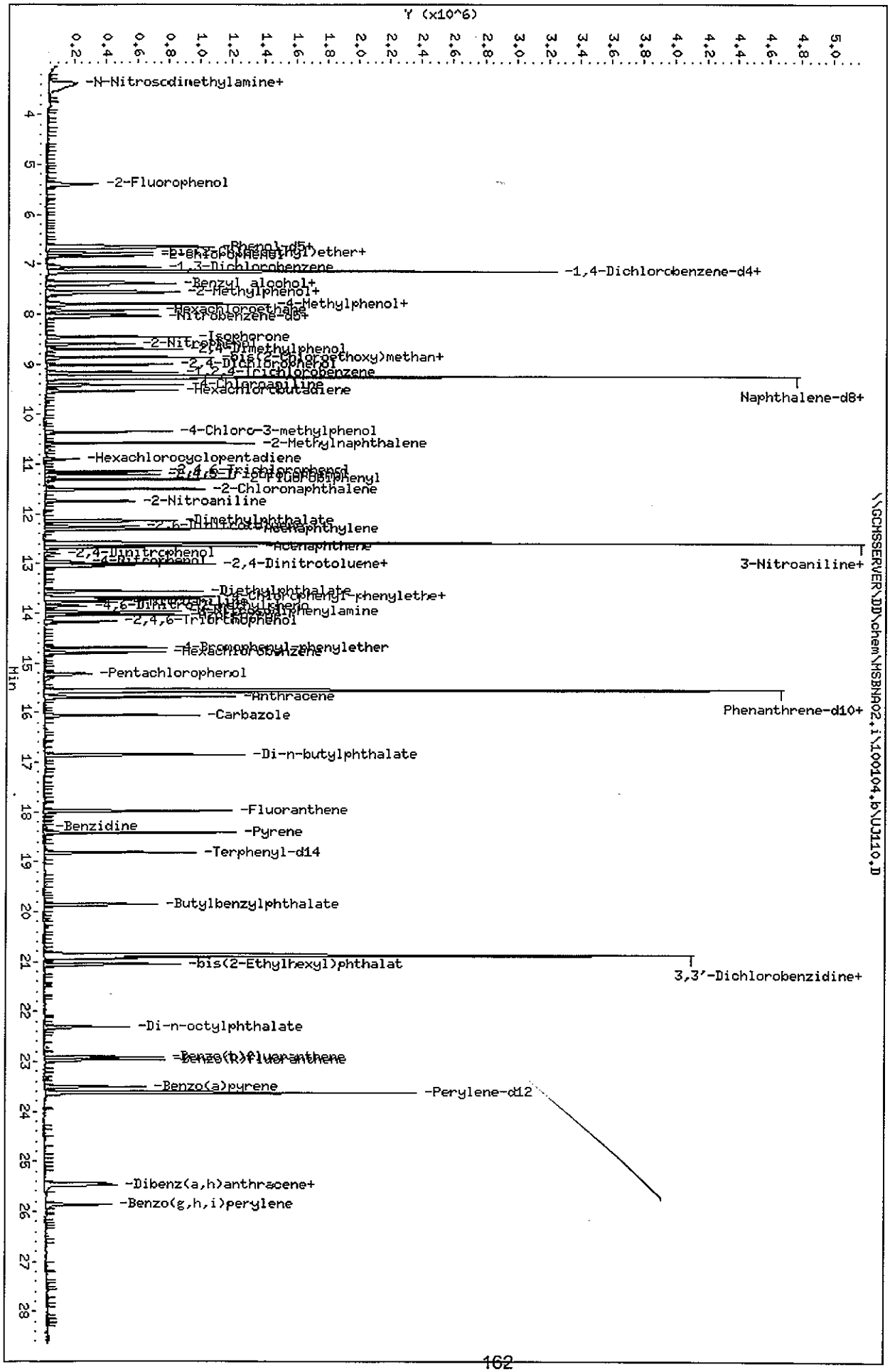
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	20.923	20.965	(1.002)	542486	10.0000	9.2057
76 Di-n-octylphthalate	149	22.315	22.326	(0.944)	538653	10.0000	12.0872
77 Benzo(b)fluoranthene	252	22.919	22.951	(0.970)	494542	10.0000	9.5061
78 Benzo(k)fluoranthene	252	22.971	23.012	(0.972)	542440	10.0000	8.5789(A)
79 Benzo(a)pyrene	252	23.513	23.544	(0.995)	428196	10.0000	10.0777
* 80 Perylene-d12	264	23.636	23.637	(1.000)	1478805	40.0000	
81 Dibenz(a,h)anthracene	278	25.479	25.510	(1.078)	287853	10.0000	8.6547
82 Indeno(1,2,3-cd)pyrene	276	25.448	25.479	(1.077)	387153	10.0000	9.2997(Q)
83 Benzo(g,h,i)perylene	276	25.868	25.899	(1.094)	304076	10.0000	9.4272(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ110.D
Date : 01-OCT-2004 20:34
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1377
Volume Injected (uL): 1.0
Column phase: Mti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ111.D
Report Date: 02-Oct-2004 19:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ111.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 01-OCT-2004 21:16 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1378
Misc Info : ICAL 20ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:12 target Quant Type: ISTD
Cal Date : 01-OCT-2004 21:16 Cal File: UJ111.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	3.365	3.377	(0.471)	249143	20.0000	21.3780(Q)
	2 Pyridine	79	3.365	3.356	(0.471)	535634	20.0000	20.0154(Q)
$	3 2-Fluorophenol	112	5.392	5.394	(0.754)	574336	20.0000	20.4703
$	4 Phenol-d5	99	6.641	6.673	(0.928)	746461	20.0000	19.9136
	5 Phenol	94	6.662	6.694	(0.931)	853751	20.0000	20.8468(Q)
	6 Aniline	66	6.774	6.796	(0.947)	6504	20.0000	27.4363(QH)
	7 bis(2-Chloroethyl)ether	63	6.774	6.796	(0.947)	457764	20.0000	20.6931(Q)
	8 2-Chlorophenol	128	6.836	6.858	(0.956)	617365	20.0000	20.0747(Q)
	9 1,3-Dichlorobenzene	146	7.061	7.073	(0.987)	609185	20.0000	19.8013(Q)
*	10 1,4-Dichlorobenzene-d4	152	7.153	7.155	(1.000)	824911	40.0000	
	11 1,4-Dichlorobenzene	146	7.174	7.185	(1.003)	625318	20.0000	19.3939(Q)
	12 Benzyl alcohol	108	7.368	7.400	(1.030)	370088	20.0000	19.6688(Q)
	13 1,2-Dichlorobenzene	146	7.399	7.410	(1.034)	606607	20.0000	19.2693(Q)
	14 2-Methylphenol	107	7.563	7.584	(1.057)	436982	20.0000	19.6309(Q)
	15 bis(2-Chloroisopropyl) ether	45	7.583	7.605	(1.060)	1214411	20.0000	22.3824
	16 4-Methylphenol	107	7.808	7.851	(1.092)	687316	20.0000	20.4103(Q)
	17 N-Nitroso-di-n-propylamine	70	7.798	7.840	(1.090)	332835	20.0000	20.3835(Q)
	18 Hexachloroethane	117	7.931	7.933	(1.109)	299343	20.0000	20.7748(Q)
$	19 Nitrobenzene-d5	82	8.023	8.055	(0.867)	522390	20.0000	18.9262
	20 Nitrobenzene	77	8.054	8.086	(0.871)	495427	20.0000	19.3211(Q)

10/2/03

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ111.D
Report Date: 02-Oct-2004 19:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.464	8.506	(0.915)	1066987	20.0000	19.6891
	22 2,4-Dimethylphenol	122	8.699	8.741	(0.940)	404202	20.0000	19.0569(Q)
	23 2-Nitrophenol	139	8.597	8.618	(0.929)	330845	20.0000	17.6047(Q)
	24 Benzoic acid	122	8.883	9.059	(0.960)	48739	20.0000	17.7707(QM)
	25 bis(2-Chloroethoxy)methane	93	8.863	8.895	(0.958)	739528	20.0000	19.0936(Q)
	26 2,4-Dichlorophenol	162	9.016	9.059	(0.975)	435475	20.0000	17.7186(Q)
	27 1,2,4-Trichlorobenzene	180	9.170	9.181	(0.991)	490695	20.0000	18.1593(Q)
*	28 Naphthalene-d8	136	9.252	9.274	(1.000)	3080171	40.0000	
	29 Naphthalene	128	9.293	9.315	(1.004)	1648506	20.0000	20.4718
	30 4-Chloroaniline	127	9.416	9.448	(1.018)	675940	20.0000	18.4607(Q)
	31 Hexachlorobutadiene	225	9.539	9.550	(1.031)	274255	20.0000	16.8999(Q)
	32 4-Chloro-3-methylphenol	107	10.358	10.379	(1.119)	468042	20.0000	18.7710(Q)
	33 2-Methylnaphthalene	142	10.583	10.604	(1.144)	1006669	20.0000	17.7329(Q)
	34 Hexachlorocyclopentadiene	237	10.900	10.901	(0.864)	111098	20.0000	18.4934(Q)
	35 2,4,6-Trichlorophenol	196	11.156	11.168	(0.885)	306687	20.0000	18.6532(Q)
	36 2,4,5-Trichlorophenol	196	11.207	11.239	(0.889)	322636	20.0000	19.5365(Q)
$	37 2-Fluorobiphenyl	172	11.310	11.331	(0.897)	990781	20.0000	19.6120
	38 2-Chloronaphthalene	162	11.514	11.536	(0.913)	856265	20.0000	19.5646(Q)
	39 2-Nitroaniline	65	11.750	11.782	(0.932)	241945	20.0000	19.4787(aQ)
	40 Dimethylphthalate	163	12.149	12.181	(0.963)	1059309	20.0000	20.3732
	41 2,6-Dinitrotoluene	165	12.262	12.304	(0.972)	250586	20.0000	19.1419(Q)
	42 Acenaphthylene	152	12.313	12.335	(0.976)	1396366	20.0000	19.6222
	43 3-Nitroaniline	138	12.569	12.621	(0.997)	260099	20.0000	17.9920(aQ)
*	44 Acenaphthene-d10	164	12.610	12.621	(1.000)	1513736	40.0000	
	45 Acenaphthene	154	12.671	12.693	(1.005)	844813	20.0000	19.6651(Q)
	46 2,4-Dinitrophenol	184	12.794	12.836	(1.015)	73398	20.0000	18.7001(aQ)
	47 4-Nitrophenol	109	12.968	13.020	(1.028)	75411	20.0000	19.7785(aQ)
	48 2,4-Dinitrotoluene	165	13.050	13.102	(1.035)	298926	20.0000	19.2490(Q)
	49 Dibenzofuran	168	13.009	13.041	(1.032)	1224272	20.0000	19.2721(Q)
	50 Diethylphthalate	149	13.562	13.604	(1.075)	1095403	20.0000	20.0741
	51 4-Chlorophenyl-phenylether	204	13.726	13.747	(1.088)	482763	20.0000	18.2224(Q)
	52 Fluorene	166	13.695	13.717	(1.086)	950784	20.0000	19.5305(Q)
	53 4-Nitroaniline	138	13.787	13.870	(1.093)	234246	20.0000	19.2405(aQ)
	54 4,6-Dinitro-2-methylphenol	198	13.869	13.932	(0.891)	152912	20.0000	19.4966(aQ)
	55 N-Nitrosodiphenylamine	169	13.982	14.024	(0.899)	605098	20.0000	17.4789(Q)
	56 Azobenzene	77	14.043	14.075	(0.903)	993040	20.0000	18.7458
$	57 2,4,6-Tribromophenol	330	14.176	14.208	(1.124)	161858	20.0000	17.8551
	58 4-Bromophenyl-phenylether	248	14.698	14.730	(0.945)	276397	20.0000	19.9470(Q)
	59 Hexachlorobenzene	284	14.801	14.832	(0.951)	316933	20.0000	17.8816(Q)
	60 Pentachlorophenol	266	15.210	15.242	(0.978)	103357	20.0000	24.3217(aQ)
*	61 Phenanthrene-d10	188	15.558	15.570	(1.000)	2355042	40.0000	
	62 Phenanthrene	178	15.599	15.631	(1.003)	1284798	20.0000	19.2075
	63 Anthracene	178	15.701	15.733	(1.009)	1206740	20.0000	18.6220
	64 Carbazole	167	16.070	16.102	(1.033)	1122716	20.0000	18.7149
	65 Di-n-butylphthalate	149	16.858	16.879	(1.084)	1908508	20.0000	20.4815
	66 Fluoranthene	202	17.984	18.016	(1.156)	1280940	20.0000	18.6869
	67 Benzidine	184	18.332	18.334	(0.878)	15445	20.0000	13.6119
	68 Pyrene	202	18.435	18.467	(0.883)	1313549	20.0000	19.2887
$	69 Terphenyl-d14	244	18.824	18.846	(0.901)	907113	20.0000	18.4785
	70 Butylbenzylphthalate	149	19.868	19.879	(0.951)	612329	20.0000	18.0507(Q)
	71 bis(2-Ethylhexyl)phthalate	149	21.056	21.067	(1.008)	790178	20.0000	19.0354
	72 3,3'-Dichlorobenzidine	252	20.871	20.903	(1.000)	341945	20.0000	18.4051(Q)
	73 Benzo(a)anthracene	228	20.861	20.883	(0.999)	1084786	20.0000	20.1796
*	74 Chrysene-d12	240	20.881	20.903	(1.000)	1659839	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ111.D
Report Date: 02-Oct-2004 19:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	20.933	20.965	(1.002)	925824	20.0000	19.6565
76 Di-n-octylphthalate	149	22.315	22.326	(0.945)	987759	20.0000	19.3097
77 Benzo(b)fluoranthene	252	22.919	22.951	(0.970)	850892	20.0000	19.3989
78 Benzo(k)fluoranthene	252	22.970	23.012	(0.972)	827809	20.0000	16.9362(A)
79 Benzo(a)pyrene	252	23.512	23.544	(0.995)	658058	20.0000	18.1761
* 80 Perylene-d12	264	23.625	23.637	(1.000)	1143160	40.0000	
81 Dibenz(a,h)anthracene	278	25.488	25.510	(1.079)	511040	20.0000	19.8767
82 Indeno(1,2,3-cd)pyrene	276	25.447	25.479	(1.077)	640516	20.0000	19.9032(Q)
83 Benzo(g,h,i)perylene	276	25.867	25.899	(1.095)	498720	20.0000	20.0014(Q)

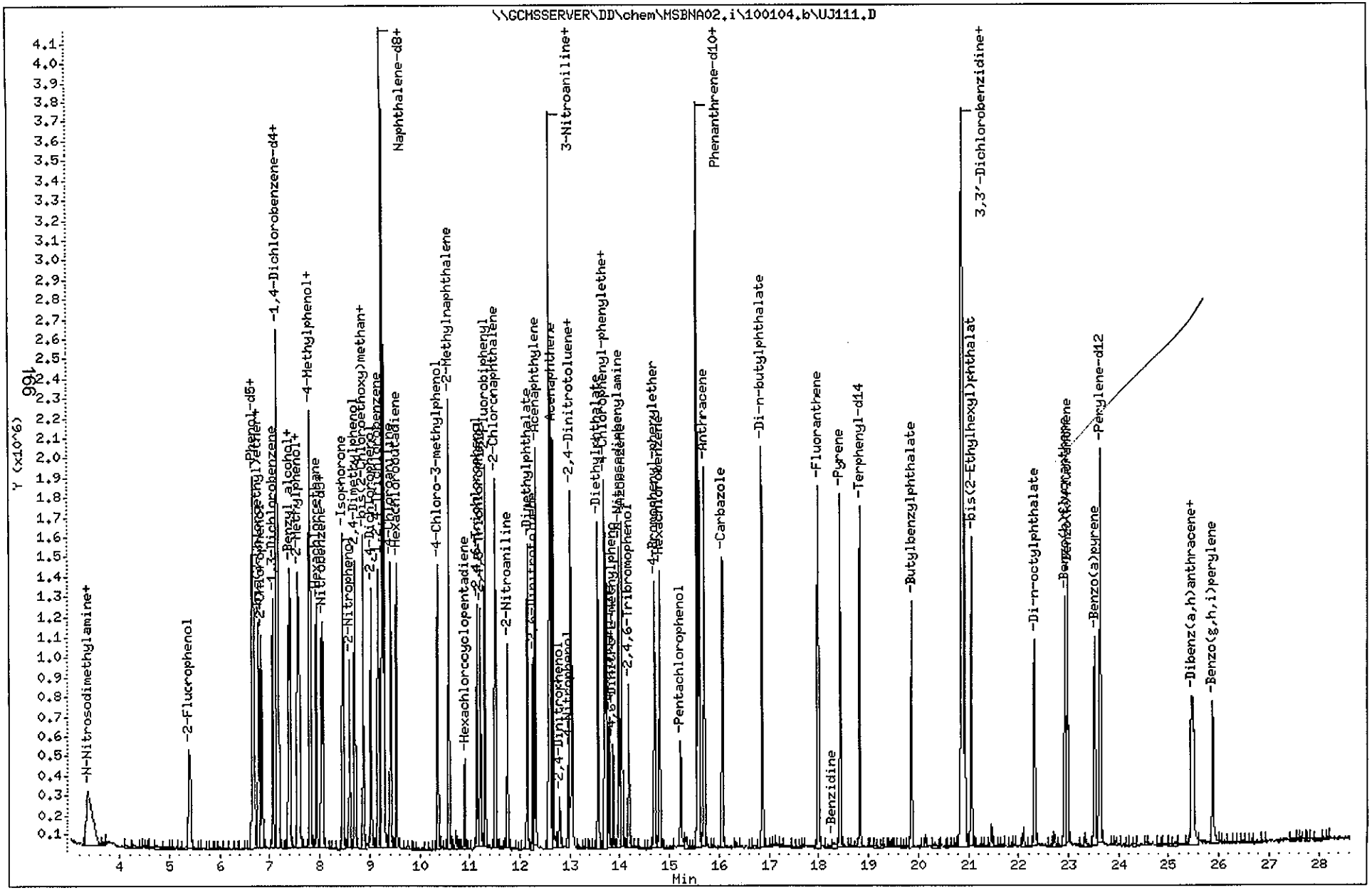
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ111.D
Date : 01-OCT-2004 21:16
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1378
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i

Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ112.D
Report Date: 02-Oct-2004 19:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ112.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 01-OCT-2004 21:58 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1379
Misc Info : ICAL 50ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:12 target Quant Type: ISTD
Cal Date : 01-OCT-2004 21:58 Cal File: UJ112.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	3.386	3.377	(0.473)	859575	50.0000	51.0493
2 Pyridine	79	3.376	3.356	(0.472)	1967942	50.0000	50.8973
$ 3 2-Fluorophenol	112	5.393	5.394	(0.754)	2084781	50.0000	51.4286
$ 4 Phenol-d5	99	6.662	6.673	(0.931)	2677854	50.0000	49.4443
5 Phenol	94	6.672	6.694	(0.933)	2990972	50.0000	50.5483
6 Aniline	66	6.785	6.796	(0.948)	16658	50.0000	49.1265 (H)
7 bis(2-Chloroethyl)ether	63	6.785	6.796	(0.948)	1611338	50.0000	50.4147
8 2-Chlorophenol	128	6.846	6.858	(0.957)	2212433	50.0000	49.7925
9 1,3-Dichlorobenzene	146	7.061	7.073	(0.987)	2234739	50.0000	50.2757
* 10 1,4-Dichlorobenzene-d4	152	7.153	7.155	(1.000)	1191847	40.0000	
11 1,4-Dichlorobenzene	146	7.174	7.185	(1.003)	2365295	50.0000	50.7735
12 Benzyl alcohol	108	7.389	7.400	(1.033)	1261289	50.0000	46.3953
13 1,2-Dichlorobenzene	146	7.409	7.410	(1.036)	2161082	50.0000	47.5135
14 2-Methylphenol	107	7.573	7.584	(1.059)	1684047	50.0000	52.3623
15 bis(2-Chloroisopropyl) ether	45	7.594	7.605	(1.062)	3977839	50.0000	50.7429
16 4-Methylphenol	107	7.829	7.851	(1.094)	2567813	50.0000	52.7769
17 N-Nitroso-di-n-propylamine	70	7.819	7.840	(1.093)	1206081	50.0000	51.1226
18 Hexachloroethane	117	7.931	7.933	(1.109)	1023204	50.0000	49.1494
$ 19 Nitrobenzene-d5	82	8.044	8.055	(0.868)	1796303	50.0000	49.0086
20 Nitrobenzene	77	8.075	8.086	(0.872)	1716526	50.0000	50.4111

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ112.D
Report Date: 02-Oct-2004 19:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.484	8.506	(0.916)	3720284	50.0000	51.6972
	22 2,4-Dimethylphenol	122	8.720	8.741	(0.941)	1423894	50.0000	50.5540
	23 2-Nitrophenol	139	8.607	8.618	(0.929)	1244648	50.0000	49.8742
	24 Benzoic acid	122	8.976	9.059	(0.969)	439662	50.0000	48.7237
	25 bis(2-Chloroethoxy)methane	93	8.884	8.895	(0.959)	2594566	50.0000	50.4456
	26 2,4-Dichlorophenol	162	9.037	9.059	(0.976)	1575303	50.0000	48.2676
	27 1,2,4-Trichlorobenzene	180	9.170	9.181	(0.990)	1819446	50.0000	50.7050
*	28 Naphthalene-d8	136	9.262	9.274	(1.000)	4090257	40.0000	
	29 Naphthalene	128	9.303	9.315	(1.004)	5741485	50.0000	53.6926
	30 4-Chloroaniline	127	9.426	9.448	(1.018)	2436196	50.0000	50.1047
	31 Hexachlorobutadiene	225	9.539	9.550	(1.030)	1065153	50.0000	49.4273
	32 4-Chloro-3-methylphenol	107	10.368	10.379	(1.119)	1668002	50.0000	50.3759
	33 2-Methylnaphthalene	142	10.593	10.604	(1.144)	3953615	50.0000	52.4461
	34 Hexachlorocyclopentadiene	237	10.900	10.901	(0.864)	624347	50.0000	51.7300
	35 2,4,6-Trichlorophenol	196	11.156	11.168	(0.885)	1189862	50.0000	51.7720
	36 2,4,5-Trichlorophenol	196	11.218	11.239	(0.890)	1153839	50.0000	49.9828
$	37 2-Fluorobiphenyl	172	11.320	11.331	(0.898)	3652521	50.0000	51.7222
	38 2-Chloronaphthalene	162	11.525	11.536	(0.914)	3087878	50.0000	50.4735
	39 2-Nitroaniline	65	11.770	11.782	(0.933)	894456	50.0000	51.5160
	40 Dimethylphthalate	163	12.170	12.181	(0.965)	3735759	50.0000	51.3992
	41 2,6-Dinitrotoluene	165	12.282	12.304	(0.974)	900107	50.0000	49.1884
	42 Acenaphthylene	152	12.323	12.335	(0.977)	5265815	50.0000	52.9364
	43 3-Nitroaniline	138	12.600	12.621	(0.999)	1046355	50.0000	51.7799
*	44 Acenaphthene-d10	164	12.610	12.621	(1.000)	2115974	40.0000	
	45 Acenaphthene	154	12.682	12.693	(1.006)	3070449	50.0000	51.1302
	46 2,4-Dinitrophenol	184	12.815	12.836	(1.016)	442463	50.0000	48.6932
	47 4-Nitrophenol	109	12.999	13.020	(1.031)	315758	50.0000	51.7055
	48 2,4-Dinitrotoluene	165	13.071	13.102	(1.037)	1136379	50.0000	52.3490
	49 Dibenzofuran	168	13.030	13.041	(1.033)	4618759	50.0000	52.0136
	50 Diethylphthalate	149	13.582	13.604	(1.077)	3892646	50.0000	51.0327
	51 4-Chlorophenyl-phenylether	204	13.736	13.747	(1.089)	1857874	50.0000	50.1681
	52 Fluorene	166	13.705	13.717	(1.087)	3540219	50.0000	52.0237
	53 4-Nitroaniline	138	13.828	13.870	(1.097)	879361	50.0000	51.6717
	54 4,6-Dinitro-2-methylphenol	198	13.890	13.932	(0.892)	665520	50.0000	49.7453
	55 N-Nitrosodiphenylamine	169	14.002	14.024	(0.899)	2269993	50.0000	48.8497
	56 Azobenzene	77	14.053	14.075	(0.903)	3385249	50.0000	47.6076
$	57 2,4,6-Tribromophenol	330	14.197	14.208	(1.126)	628997	50.0000	49.6384
	58 4-Bromophenyl-phenylether	248	14.709	14.730	(0.945)	1031635	50.0000	46.6077
	59 Hexachlorobenzene	284	14.821	14.832	(0.952)	1165828	50.0000	49.0030
	60 Pentachlorophenol	266	15.220	15.242	(0.978)	530936	50.0000	46.4964
*	61 Phenanthrene-d10	188	15.569	15.570	(1.000)	3161184	40.0000	
	62 Phenanthrene	178	15.620	15.631	(1.003)	4529193	50.0000	50.4436
	63 Anthracene	178	15.722	15.733	(1.010)	4363399	50.0000	50.1634
	64 Carbazole	167	16.080	16.102	(1.033)	3876820	50.0000	48.1441
	65 Di-n-butylphthalate	149	16.869	16.879	(1.084)	6789970	50.0000	54.2857
	66 Fluoranthene	202	18.005	18.016	(1.156)	4628036	50.0000	50.2986
	67 Benzidine	184	18.333	18.334	(0.877)	62217	50.0000	39.1080
	68 Pyrene	202	18.445	18.467	(0.883)	4965174	50.0000	52.0016
$	69 Terphenyl-d14	244	18.834	18.846	(0.902)	3521966	50.0000	51.1701
	70 Butylbenzylphthalate	149	19.868	19.879	(0.951)	2408865	50.0000	50.6462
	71 bis(2-Ethylhexyl)phthalate	149	21.066	21.067	(1.008)	2867799	50.0000	49.2732
	72 3,3'-Dichlorobenzidine	252	20.882	20.903	(1.000)	1384857	50.0000	53.1634
	73 Benzo(a)anthracene	228	20.871	20.883	(0.999)	3961564	50.0000	52.5606
*	74 Chrysene-d12	240	20.892	20.903	(1.000)	2327238	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ112.D
Report Date: 02-Oct-2004 19:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	20.953	20.965	(1.003)	3345477	50.0000	50.6597
76 Di-n-octylphthalate	149	22.315	22.326	(0.944)	3803434	50.0000	47.2667
77 Benzo(b)fluoranthene	252	22.939	22.951	(0.971)	2797643	50.0000	50.4796
78 Benzo(k)fluoranthene	252	22.991	23.012	(0.973)	3082969	50.0000	54.5937(A)
79 Benzo(a)pyrene	252	23.533	23.544	(0.996)	2327102	50.0000	50.3099
* 80 Perylene-d12	264	23.636	23.637	(1.000)	1320746	40.0000	
81 Dibenz(a,h)anthracene	278	25.499	25.510	(1.079)	1696452	50.0000	57.1108
82 Indeno(1,2,3-cd)pyrene	276	25.468	25.479	(1.078)	2098220	50.0000	56.4330
83 Benzo(g,h,i)perylene	276	25.888	25.899	(1.095)	1609490	50.0000	55.8703

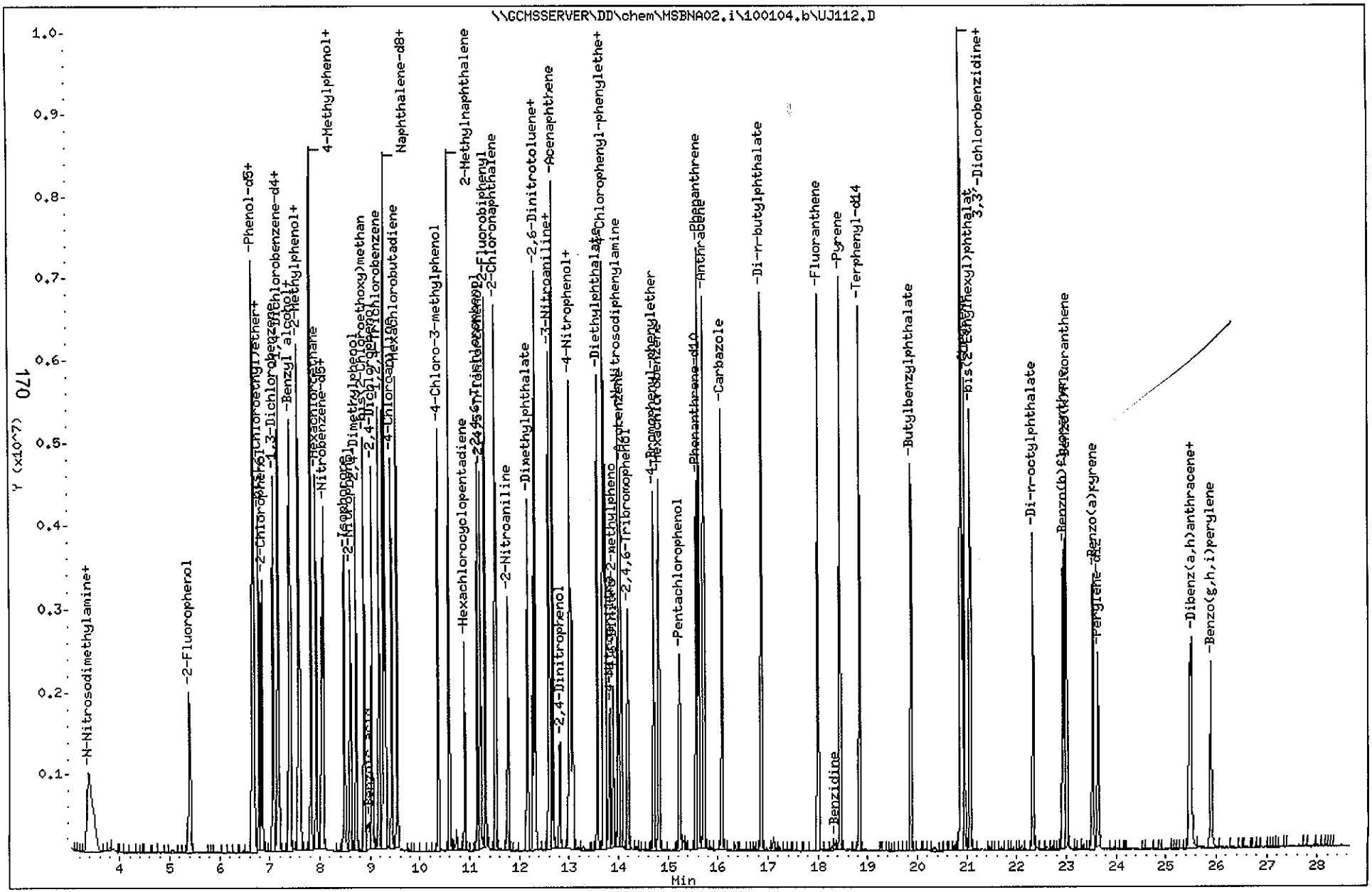
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ112.D
Date : 01-OCT-2004 21:58
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1379
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i

Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ113.D
Report Date: 02-Oct-2004 19:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ113.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 01-OCT-2004 22:40 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1380
Misc Info : ICAL 80ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:12 target Quant Type: ISTD
Cal Date : 01-OCT-2004 22:40 Cal File: UJ113.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	3.376	3.376	(0.472)	1542202	80.0000	75.7372
	2 Pyridine	79	3.356	3.356	(0.469)	3698451	80.0000	79.0978
$	3 2-Fluorophenol	112	5.393	5.393	(0.754)	3804361	80.0000	77.6048
$	4 Phenol-d5	99	6.673	6.673	(0.933)	5395686	80.0000	82.3830
	5 Phenol	94	6.693	6.693	(0.936)	5690665	80.0000	79.5279
	6 Aniline	66	6.796	6.796	(0.950)	34266	80.0000	80.2676 (QH)
	7 bis(2-Chloroethyl)ether	63	6.796	6.796	(0.950)	2954507	80.0000	76.4394
	8 2-Chlorophenol	128	6.857	6.857	(0.959)	4371609	80.0000	81.3574
	9 1,3-Dichlorobenzene	146	7.072	7.072	(0.989)	4306248	80.0000	80.1110
*	10 1,4-Dichlorobenzene-d4	152	7.154	7.154	(1.000)	1441314	40.0000	
	11 1,4-Dichlorobenzene	146	7.185	7.185	(1.004)	4541757	80.0000	80.6190
	12 Benzyl alcohol	108	7.400	7.400	(1.034)	2750838	80.0000	83.6732
	13 1,2-Dichlorobenzene	146	7.410	7.410	(1.036)	4616569	80.0000	83.9319
	14 2-Methylphenol	107	7.584	7.584	(1.060)	3193883	80.0000	82.1194
	15 bis(2-Chloroisopropyl) ether	45	7.604	7.604	(1.063)	7452850	80.0000	78.6163
	16 4-Methylphenol	107	7.850	7.850	(1.097)	4707836	80.0000	80.0136
	17 N-Nitroso-di-n-propylamine	70	7.840	7.840	(1.096)	2265091	80.0000	79.3933 (M)
	18 Hexachloroethane	117	7.932	7.932	(1.109)	1987209	80.0000	78.9335
$	19 Nitrobenzene-d5	82	8.055	8.055	(0.869)	3516562	80.0000	81.8843
	20 Nitrobenzene	77	8.086	8.086	(0.872)	3352542	80.0000	84.0310

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ113.D
Report Date: 02-Oct-2004 19:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	20.964	20.964	(1.003)	6506162	80.0000	85.6312
76 Di-n-octylphthalate	149	22.326	22.326	(0.945)	7552597	80.0000	80.3890
77 Benzo(b)fluoranthene	252	22.950	22.950	(0.971)	4936258	80.0000	79.8945
78 Benzo(k)fluoranthene	252	23.012	23.012	(0.974)	5204582	80.0000	88.0965(A)
79 Benzo(a)pyrene	252	23.544	23.544	(0.996)	4093504	80.0000	80.4580
* 80 Perylene-d12	264	23.636	23.636	(1.000)	1381720	40.0000	
81 Dibenz(a,h)anthracene	278	25.510	25.510	(1.079)	2670234	80.0000	85.9262
82 Indeno(1,2,3-cd)pyrene	276	25.479	25.479	(1.078)	3350373	80.0000	86.1340
83 Benzo(g,h,i)perylene	276	25.899	25.899	(1.096)	2509463	80.0000	83.2670

QC Flag Legend

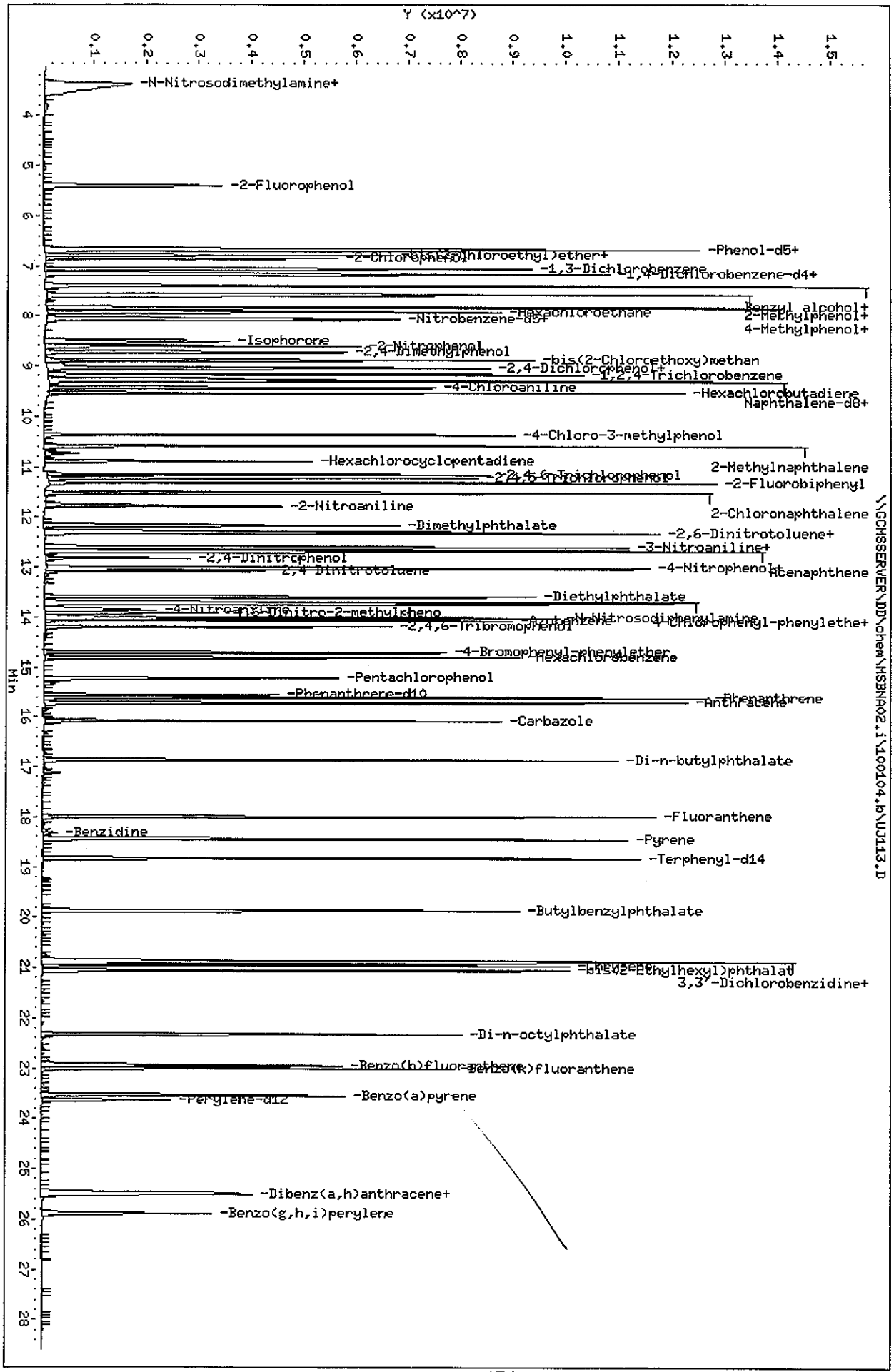
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ113.D
Report Date: 02-Oct-2004 19:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.505	8.505	(0.917)	6712898	80.0000	79.6142
	22 2,4-Dimethylphenol	122	8.741	8.741	(0.943)	2585258	80.0000	78.3377
	23 2-Nitrophenol	139	8.618	8.618	(0.929)	2414778	80.0000	82.5840
	24 Benzoic acid	122	9.058	9.058	(0.977)	1001943	80.0000	78.9443 (QM)
	25 bis(2-Chloroethoxy)methane	93	8.894	8.894	(0.959)	4858532	80.0000	80.6219
	26 2,4-Dichlorophenol	162	9.058	9.058	(0.977)	3219163	80.0000	84.1829
	27 1,2,4-Trichlorobenzene	180	9.181	9.181	(0.990)	3504457	80.0000	83.3530
*	28 Naphthalene-d8	136	9.273	9.273	(1.000)	4792495	40.0000	
	29 Naphthalene	128	9.314	9.314	(1.004)	10063631	80.0000	80.3218
	30 4-Chloroaniline	127	9.447	9.447	(1.019)	4812011	80.0000	84.4659
	31 Hexachlorobutadiene	225	9.550	9.550	(1.030)	2249616	80.0000	89.0948
	32 4-Chloro-3-methylphenol	107	10.379	10.379	(1.119)	3217641	80.0000	82.9379
	33 2-Methylnaphthalene	142	10.604	10.604	(1.144)	7419907	80.0000	84.0053
	34 Hexachlorocyclopentadiene	237	10.901	10.901	(0.864)	1244379	80.0000	75.8621
	35 2,4,6-Trichlorophenol	196	11.167	11.167	(0.885)	2329749	80.0000	81.0388
	36 2,4,5-Trichlorophenol	196	11.239	11.239	(0.890)	2310970	80.0000	80.0304
$	37 2-Fluorobiphenyl	172	11.331	11.331	(0.898)	7271704	80.0000	82.3200
	38 2-Chloronaphthalene	162	11.536	11.536	(0.914)	6185573	80.0000	80.8293
	39 2-Nitroaniline	65	11.781	11.781	(0.933)	1747322	80.0000	80.4528
	40 Dimethylphthalate	163	12.181	12.181	(0.965)	7164780	80.0000	78.8072
	41 2,6-Dinitrotoluene	165	12.303	12.303	(0.975)	1861543	80.0000	81.3256
	42 Acenaphthylene	152	12.334	12.334	(0.977)	10289940	80.0000	82.6965
	43 3-Nitroaniline	138	12.621	12.621	(1.000)	2122260	80.0000	83.9588
*	44 Acenaphthene-d10	164	12.621	12.621	(1.000)	2646824	40.0000	
	45 Acenaphthene	154	12.692	12.692	(1.006)	6106035	80.0000	81.2868
	46 2,4-Dinitrophenol	184	12.836	12.836	(1.017)	1044525	80.0000	80.6915
	47 4-Nitrophenol	109	13.020	13.020	(1.032)	626366	80.0000	79.0521
	48 2,4-Dinitrotoluene	165	13.102	13.102	(1.038)	2163625	80.0000	79.6805
	49 Dibenzofuran	168	13.040	13.040	(1.033)	8965545	80.0000	80.7148
	50 Diethylphthalate	149	13.604	13.604	(1.078)	7583845	80.0000	79.4837
	51 4-Chlorophenyl-phenylether	204	13.747	13.747	(1.089)	3716806	80.0000	80.2355
	52 Fluorene	166	13.716	13.716	(1.087)	7135156	80.0000	83.8224
	53 4-Nitroaniline	138	13.870	13.870	(1.099)	1725985	80.0000	81.0789
	54 4,6-Dinitro-2-methylphenol	198	13.931	13.931	(0.895)	1330363	80.0000	80.1367
	55 N-Nitrosodiphenylamine	169	14.023	14.023	(0.901)	4622220	80.0000	85.9518
	56 Azobenzene	77	14.074	14.074	(0.904)	6910781	80.0000	83.9808
$	57 2,4,6-Tribromophenol	330	14.208	14.208	(1.126)	1332358	80.0000	84.0573
	58 4-Bromophenyl-phenylether	248	14.730	14.730	(0.946)	2196877	80.0000	80.8989
	59 Hexachlorobenzene	284	14.832	14.832	(0.953)	2380515	80.0000	86.4622
	60 Pentachlorophenol	266	15.241	15.241	(0.979)	1259462	80.0000	78.0099
*	61 Phenanthrene-d10	188	15.569	15.569	(1.000)	3658329	40.0000	
	62 Phenanthrene	178	15.631	15.631	(1.004)	8965631	80.0000	86.2847
	63 Anthracene	178	15.733	15.733	(1.011)	9027933	80.0000	89.6845
	64 Carbazole	167	16.101	16.101	(1.034)	7840286	80.0000	84.1331
	65 Di-n-butylphthalate	149	16.879	16.879	(1.084)	11902549	80.0000	82.2289
	66 Fluoranthene	202	18.016	18.016	(1.157)	9198047	80.0000	86.3818
	67 Benzidine	184	18.333	18.333	(0.877)	224740	80.0000	122.7835
	68 Pyrene	202	18.466	18.466	(0.883)	9337352	80.0000	84.9980
$	69 Terphenyl-d14	244	18.845	18.845	(0.902)	6695327	80.0000	84.5483
	70 Butylbenzylphthalate	149	19.879	19.879	(0.951)	4689119	80.0000	85.6896
	71 bis(2-Ethylhexyl)phthalate	149	21.067	21.067	(1.008)	5602610	80.0000	83.6671
	72 3,3'-Dichlorobenzidine	252	20.903	20.903	(1.000)	2628008	80.0000	87.6874
	73 Benzo(a)anthracene	228	20.882	20.882	(0.999)	7345650	80.0000	84.7083
*	74 Chrysene-d12	240	20.903	20.903	(1.000)	2677556	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ113.D
Date : 01-OCT-2004 22:40
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1380
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ114.D
Report Date: 02-Oct-2004 19:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ114.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 01-OCT-2004 23:22 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1381
Misc Info : ICAL 120ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:12 target Quant Type: ISTD
Cal Date : 01-OCT-2004 23:22 Cal File: UJ114.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	42	3.397	3.376	(0.475)	1894046	120.000	114.4320(Q)
2 Pyridine	79	3.366	3.356	(0.471)	4678852	120.000	123.1043(Q)
$ 3 2-Fluorophenol	112	5.403	5.393	(0.755)	4833271	120.000	121.2933
$ 4 Phenol-d5	99	6.683	6.673	(0.934)	6626931	120.000	124.4780
5 Phenol	94	6.703	6.693	(0.937)	7010527	120.000	120.5303(Q)
6 Aniline	66	6.806	6.796	(0.951)	44754	120.000	117.7208(QH)
7 bis(2-Chloroethyl)ether	63	6.806	6.796	(0.951)	3700776	120.000	117.7916(Q)
8 2-Chlorophenol	128	6.857	6.857	(0.959)	5290084	120.000	121.1177(Q)
9 1,3-Dichlorobenzene	146	7.072	7.072	(0.989)	5455487	120.000	124.8578(Q)
* 10 1,4-Dichlorobenzene-d4	152	7.154	7.154	(1.000)	1171574	40.0000	
11 1,4-Dichlorobenzene	146	7.185	7.185	(1.004)	5634717	120.000	123.0480(Q)
12 Benzyl alcohol	108	7.410	7.400	(1.036)	3477521	120.000	130.1308(Q)
13 1,2-Dichlorobenzene	146	7.410	7.410	(1.036)	6010054	120.000	134.4234(Q)
14 2-Methylphenol	107	7.584	7.584	(1.060)	3794114	120.000	120.0124(Q)
15 bis(2-Chloroisopropyl) ether	45	7.604	7.604	(1.063)	8686686	120.000	112.7283
16 4-Methylphenol	107	7.860	7.850	(1.099)	5718129	120.000	119.5599(Q)
17 N-Nitroso-di-n-propylamine	70	7.881	7.840	(1.102)	2697858	120.000	116.3339(QM)
18 Hexachloroethane	117	7.932	7.932	(1.109)	2511302	120.000	122.7172(Q)
$ 19 Nitrobenzene-d5	82	8.065	8.055	(0.870)	4369749	120.000	119.7105
20 Nitrobenzene	77	8.096	8.086	(0.873)	3900748	120.000	115.0288(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ114.D
Report Date: 02-Oct-2004 19:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.536	8.505	(0.921)	8436896	120.000	117.7217(M)
	22 2,4-Dimethylphenol	122	8.751	8.741	(0.944)	3501593	120.000	124.8321(Q)
	23 2-Nitrophenol	139	8.628	8.618	(0.930)	3195365	120.000	128.5679(Q)
	24 Benzoic acid	122	9.058	9.058	(0.977)	1583109	120.000	121.8808(QM)
	25 bis(2-Chloroethoxy)methane	93	8.904	8.894	(0.960)	6109316	120.000	119.2708(Q)
	26 2,4-Dichlorophenol	162	9.058	9.058	(0.977)	4208223	120.000	129.4712(Q)
	27 1,2,4-Trichlorobenzene	180	9.181	9.181	(0.990)	4403348	120.000	123.2188(Q)
*	28 Naphthalene-d8	136	9.273	9.273	(1.000)	4073505	40.0000	
	29 Naphthalene	128	9.314	9.314	(1.004)	12292007	120.000	115.4238
	30 4-Chloroaniline	127	9.447	9.447	(1.019)	6062423	120.000	125.1972(Q)
	31 Hexachlorobutadiene	225	9.549	9.550	(1.030)	2758864	120.000	128.5488(Q)
	32 4-Chloro-3-methylphenol	107	10.389	10.379	(1.120)	4097066	120.000	124.2459(Q)
	33 2-Methylnaphthalene	142	10.604	10.604	(1.144)	9657057	120.000	128.6313(Q)
	34 Hexachlorocyclopentadiene	237	10.901	10.901	(0.864)	1856978	120.000	123.3827(Q)
	35 2,4,6-Trichlorophenol	196	11.177	11.167	(0.886)	3011765	120.000	129.1049(Q)
	36 2,4,5-Trichlorophenol	196	11.239	11.239	(0.891)	2922267	120.000	124.7149(Q)
$	37 2-Fluorobiphenyl	172	11.341	11.331	(0.899)	8731599	120.000	121.8150
	38 2-Chloronaphthalene	162	11.546	11.536	(0.916)	7790481	120.000	125.4558(Q)
	39 2-Nitroaniline	65	11.791	11.781	(0.935)	2158148	120.000	122.4580(Q)
	40 Dimethylphthalate	163	12.191	12.181	(0.967)	9090552	120.000	123.2228
	41 2,6-Dinitrotoluene	165	12.313	12.303	(0.976)	2336114	120.000	125.7726(Q)
	42 Acenaphthylene	152	12.344	12.334	(0.979)	12216915	120.000	120.9967
	43 3-Nitroaniline	138	12.631	12.621	(1.002)	2576526	120.000	125.6146(Q)
*	44 Acenaphthene-d10	164	12.610	12.621	(1.000)	2147769	40.0000	
	45 Acenaphthene	154	12.702	12.692	(1.007)	7716609	120.000	126.5974(Q)
	46 2,4-Dinitrophenol	184	12.846	12.836	(1.019)	1401286	120.000	120.4460(Q)
	47 4-Nitrophenol	109	13.030	13.020	(1.033)	795627	120.000	119.5802(Q)
	48 2,4-Dinitrotoluene	165	13.112	13.102	(1.040)	2734922	120.000	124.1231(Q)
	49 Dibenzofuran	168	13.040	13.040	(1.034)	11390623	120.000	126.3752(Q)
	50 Diethylphthalate	149	13.614	13.604	(1.080)	9625770	120.000	124.3260
	51 4-Chlorophenyl-phenylether	204	13.757	13.747	(1.091)	4905874	120.000	130.5120(Q)
	52 Fluorene	166	13.726	13.716	(1.088)	8672230	120.000	125.5525(Q)
	53 4-Nitroaniline	138	13.900	13.870	(1.102)	2090393	120.000	121.0141(QH)
	54 4,6-Dinitro-2-methylphenol	198	13.941	13.931	(0.895)	1674118	120.000	120.1847(Q)
	55 N-Nitrosodiphenylamine	169	14.033	14.023	(0.901)	5668190	120.000	133.0680(Q)
	56 Azobenzene	77	14.074	14.074	(0.904)	8648766	120.000	132.6882
$	57 2,4,6-Tribromophenol	330	14.218	14.208	(1.127)	1742331	120.000	135.4637
	58 4-Bromophenyl-phenylether	248	14.729	14.730	(0.946)	2716090	120.000	121.9582(Q)
	59 Hexachlorobenzene	284	14.832	14.832	(0.953)	2902348	120.000	133.0852(Q)
	60 Pentachlorophenol	266	15.241	15.241	(0.979)	1669368	120.000	119.4439(Q)
*	61 Phenanthrene-d10	188	15.569	15.569	(1.000)	2897729	40.0000	
	62 Phenanthrene	178	15.641	15.631	(1.005)	10596366	120.000	128.7463
	63 Anthracene	178	15.743	15.733	(1.011)	10629761	120.000	133.3146
	64 Carbazole	167	16.101	16.101	(1.034)	9592082	120.000	129.9489
	65 Di-n-butylphthalate	149	16.890	16.879	(1.085)	13542936	120.000	118.1198
	66 Fluoranthene	202	18.026	18.016	(1.158)	11094914	120.000	131.5453
	67 Benzidine	184	18.343	18.333	(0.877)	215799	120.000	143.4511
	68 Pyrene	202	18.466	18.466	(0.883)	10959804	120.000	121.3899
$	69 Terphenyl-d14	244	18.845	18.845	(0.901)	8348258	120.000	128.2697
	70 Butylbenzylphthalate	149	19.889	19.879	(0.951)	5858312	120.000	130.2579(Q)
	71 bis(2-Ethylhexyl)phthalate	149	21.077	21.067	(1.008)	7257422	120.000	131.8687(Q)
	72 3,3'-Dichlorobenzidine	252	20.903	20.903	(1.000)	3093322	120.000	125.5829(Q)
	73 Benzo(a)anthracene	228	20.892	20.882	(0.999)	8530732	120.000	119.6953
*	74 Chrysene-d12	240	20.913	20.903	(1.000)	2200613	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ114.D
Report Date: 02-Oct-2004 19:12

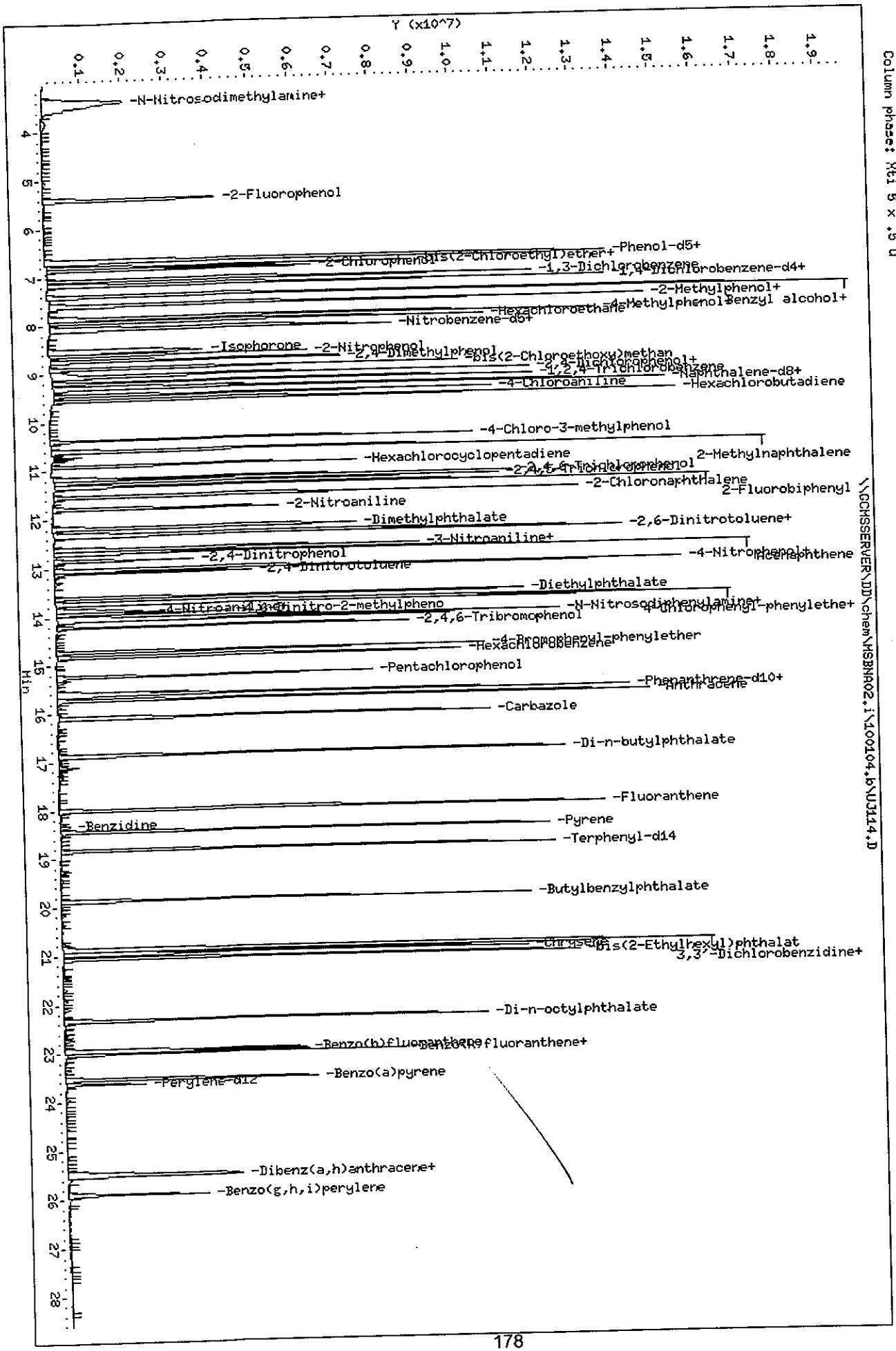
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	20.974	20.964	(1.003)	7576662	120.000	121.3333
76 Di-n-octylphthalate	149	22.336	22.326	(0.945)	9412511	120.000	121.7283
77 Benzo(b)fluoranthene	252	22.960	22.950	(0.971)	6134109	120.000	119.9880
78 Benzo(k)fluoranthene	252	23.022	23.012	(0.974)	5780133	120.000	130.7261(AH)
79 Benzo(a)pyrene	252	23.554	23.544	(0.997)	4857736	120.000	119.8011
* 80 Perylene-d12	264	23.636	23.636	(1.000)	1034114	40.0000	
81 Dibenz(a,h)anthracene	278	25.520	25.510	(1.080)	3041415	120.000	130.7687
82 Indeno(1,2,3-cd)pyrene	276	25.479	25.479	(1.078)	3813182	120.000	130.9847(Q)
83 Benzo(g,h,i)perylene	276	25.909	25.899	(1.096)	2872030	120.000	127.3307(Q)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ114.D
Date : 01-OCT-2004 23:22
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1381
Volume Injected (ul): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ115.D
Report Date: 02-Oct-2004 19:12

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ115.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 02-OCT-2004 00:04 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1382
Misc Info : ICAL 160ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:12 target Quant Type: ISTD
Cal Date : 02-OCT-2004 00:04 Cal File: UJ115.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	3.380	3.376	(0.472)	2545258	160.000	154.3685(Q)
	2 Pyridine	79	3.390	3.356	(0.474)	6142132	160.000	162.2269(Q)
$	3 2-Fluorophenol	112	5.406	5.393	(0.755)	6401100	160.000	161.2576
$	4 Phenol-d5	99	6.696	6.673	(0.936)	8792070	160.000	165.7834
	5 Phenol	94	6.717	6.693	(0.938)	9098799	160.000	157.0361(Q)
	6 Aniline	66	6.819	6.796	(0.953)	75789	160.000	160.6885(QH)
	7 bis(2-Chloroethyl)ether	63	6.809	6.796	(0.951)	5158554	160.000	164.8236(Q)
	8 2-Chlorophenol	128	6.870	6.857	(0.960)	7192839	160.000	165.3161(Q)
	9 1,3-Dichlorobenzene	146	7.075	7.072	(0.989)	7388905	160.000	169.7588(Q)
*	10 1,4-Dichlorobenzene-d4	152	7.157	7.154	(1.000)	1167078	40.0000	
	11 1,4-Dichlorobenzene	146	7.188	7.185	(1.004)	7515371	160.000	164.7490(Q)
	12 Benzyl alcohol	108	7.433	7.400	(1.039)	4507542	160.000	169.3246(Q)
	13 1,2-Dichlorobenzene	146	7.413	7.410	(1.036)	7610523	160.000	170.8759(Q)
	14 2-Methylphenol	107	7.597	7.584	(1.062)	4826929	160.000	153.2698(Q)
	15 bis(2-Chloroisopropyl) ether	45	7.618	7.604	(1.064)	11009490	160.000	143.4221
	16 4-Methylphenol	107	7.874	7.850	(1.100)	7773682	160.000	163.1654(Q)
	17 N-Nitroso-di-n-propylamine	70	7.904	7.840	(1.104)	3771372	160.000	163.2513(M)
	18 Hexachloroethane	117	7.935	7.932	(1.109)	3369641	160.000	165.2952(Q)
$	19 Nitrobenzene-d5	82	8.078	8.055	(0.871)	5877683	160.000	170.9248
	20 Nitrobenzene	77	8.109	8.086	(0.874)	5355182	160.000	167.6317(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ115.D
Report Date: 02-Oct-2004 19:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	8.570	8.505	(0.924)	11229690	160.000	166.3278
	22 2,4-Dimethylphenol	122	8.764	8.741	(0.945)	4642895	160.000	175.7003(Q)
	23 2-Nitrophenol	139	8.631	8.618	(0.930)	4313706	160.000	184.2408(Q)
	24 Benzoic acid	122	9.174	9.058	(0.989)	2455111	160.000	159.4559(QM)
	25 bis(2-Chloroethoxy)methane	93	8.908	8.894	(0.960)	7896252	160.000	163.6386(Q)
	26 2,4-Dichlorophenol	162	9.071	9.058	(0.978)	5511515	160.000	179.9984(Q)
	27 1,2,4-Trichlorobenzene	180	9.194	9.181	(0.991)	5829818	160.000	173.1698(Q)
*	28 Naphthalene-d8	136	9.276	9.273	(1.000)	3837471	40.0000	
	29 Naphthalene	128	9.327	9.314	(1.006)	13758955	160.000	137.1454
	30 4-Chloroaniline	127	9.460	9.447	(1.020)	7855756	160.000	172.2105(Q)
	31 Hexachlorobutadiene	225	9.553	9.550	(1.030)	3638451	160.000	179.9605(Q)
	32 4-Chloro-3-methylphenol	107	10.392	10.379	(1.120)	5466419	160.000	175.9686(Q)
	33 2-Methylnaphthalene	142	10.617	10.604	(1.145)	12228646	160.000	172.9033(Q)
	34 Hexachlorocyclopentadiene	237	10.904	10.901	(0.864)	2562072	160.000	158.8357(Q)
	35 2,4,6-Trichlorophenol	196	11.180	11.167	(0.886)	4052245	160.000	178.9448(Q)
	36 2,4,5-Trichlorophenol	196	11.252	11.239	(0.891)	3994982	160.000	175.6366(Q)
$	37 2-Fluorobiphenyl	172	11.344	11.331	(0.899)	11688349	160.000	167.9816
	38 2-Chloronaphthalene	162	11.549	11.536	(0.915)	10198150	160.000	169.1803(Q)
	39 2-Nitroaniline	65	11.805	11.781	(0.935)	2842458	160.000	166.1506(Q)
	40 Dimethylphthalate	163	12.204	12.181	(0.967)	11812409	160.000	164.9457
	41 2,6-Dinitrotoluene	165	12.327	12.303	(0.976)	3376057	160.000	187.2421(Q)
	42 Acenaphthylene	152	12.358	12.334	(0.979)	15789601	160.000	161.0960
	43 3-Nitroaniline	138	12.644	12.621	(1.002)	3492023	160.000	175.3817(Q)
*	44 Acenaphthene-d10	164	12.624	12.621	(1.000)	2084903	40.0000	
	45 Acenaphthene	154	12.706	12.692	(1.006)	10451381	160.000	176.6338(Q)
	46 2,4-Dinitrophenol	184	12.859	12.836	(1.019)	1984444	160.000	159.7376(Q)
	47 4-Nitrophenol	109	13.054	13.020	(1.034)	1064293	160.000	160.2816(Q)
	48 2,4-Dinitrotoluene	165	13.125	13.102	(1.040)	3559327	160.000	166.4093(Q)
	49 Dibenzofuran	168	13.054	13.040	(1.034)	14395403	160.000	164.5280(Q)
	50 Diethylphthalate	149	13.637	13.604	(1.080)	11966185	160.000	159.2150
	51 4-Chlorophenyl-phenylether	204	13.770	13.747	(1.091)	6638312	160.000	181.9255(Q)
	52 Fluorene	166	13.740	13.716	(1.088)	11426936	160.000	170.4221(Q)
	53 4-Nitroaniline	138	13.934	13.870	(1.104)	2838623	160.000	169.2847(QH)
	54 4,6-Dinitro-2-methylphenol	198	13.965	13.931	(0.896)	2316846	160.000	159.8976(Q)
	55 N-Nitrosodiphenylamine	169	14.047	14.023	(0.901)	7627778	160.000	180.7181(Q)
	56 Azobenzene	77	14.088	14.074	(0.904)	11255600	160.000	174.2694(Q)
$	57 2,4,6-Tribromophenol	330	14.231	14.208	(1.127)	2272286	160.000	181.9940
	58 4-Bromophenyl-phenylether	248	14.743	14.730	(0.946)	3586542	160.000	158.9185(Q)
	59 Hexachlorobenzene	284	14.845	14.832	(0.953)	3917059	160.000	181.2653(Q)
	60 Pentachlorophenol	266	15.245	15.241	(0.978)	2333456	160.000	161.7278(Q)
*	61 Phenanthrene-d10	188	15.582	15.569	(1.000)	2871333	40.0000	
	62 Phenanthrene	178	15.644	15.631	(1.004)	14414878	160.000	176.7515
	63 Anthracene	178	15.756	15.733	(1.011)	12890536	160.000	163.1546
	64 Carbazole	167	16.115	16.101	(1.034)	12571492	160.000	171.8783
	65 Di-n-butylphthalate	149	16.893	16.879	(1.084)	16982200	160.000	149.4782
	66 Fluoranthene	202	18.029	18.016	(1.157)	13904231	160.000	166.3691
	67 Benzidine	184	18.346	18.333	(0.877)	226753	160.000	154.2149
	68 Pyrene	202	18.480	18.466	(0.884)	13525035	160.000	153.2629
$	69 Terphenyl-d14	244	18.858	18.845	(0.902)	10423630	160.000	163.8573
	70 Butylbenzylphthalate	149	19.892	19.879	(0.951)	7860332	160.000	178.8098(Q)
	71 bis(2-Ethylhexyl)phthalate	149	21.080	21.067	(1.008)	9275713	160.000	172.4350(Q)
	72 3,3'-Dichlorobenzidine	252	20.916	20.903	(1.000)	3890578	160.000	161.5988(Q)
	73 Benzo(a)anthracene	228	20.896	20.882	(0.999)	10670897	160.000	153.1829
*	74 Chrysene-d12	240	20.916	20.903	(1.000)	2150924	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ115.D
Report Date: 02-Oct-2004 19:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	20.988	20.964	(1.003)	9850939	160.000	161.3980
76 Di-n-octylphthalate	149	22.339	22.326	(0.945)	11931592	160.000	159.2188
77 Benzo(b)fluoranthene	252	22.963	22.950	(0.971)	7896275	160.000	153.9653
78 Benzo(k)fluoranthene	252	23.025	23.012	(0.974)	7333162	160.000	186.7900(AMH)
79 Benzo(a)pyrene	252	23.557	23.544	(0.997)	5822219	160.000	152.4726
* 80 Perylene-d12	264	23.639	23.636	(1.000)	918186	40.0000	
81 Dibenz(a,h)anthracene	278	25.523	25.510	(1.080)	3566433	160.000	172.7030
82 Indeno(1,2,3-cd)pyrene	276	25.492	25.479	(1.078)	4252574	160.000	164.5215(Q)
83 Benzo(g,h,i)perylene	276	25.912	25.899	(1.096)	3112335	160.000	155.4061(Q)

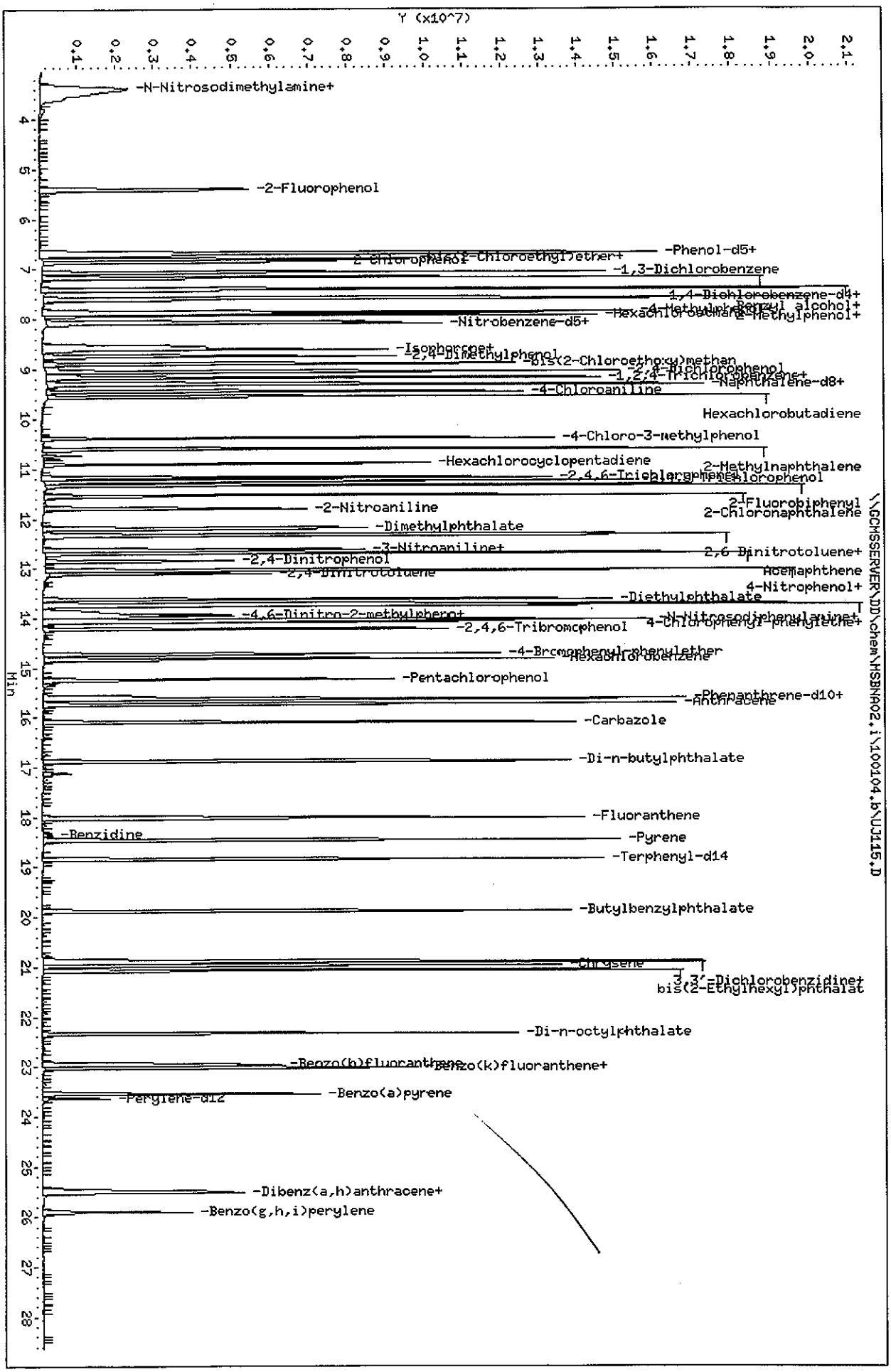
10/2/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ115.D
Date : 02-OCT-2004 00:04
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1382
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA02 Run Name : ICV 80ug/ml
Seqnum : 514396535016 Filename : uj116 Injected : 02-OCT-2004 00:45
Calnum : 514396535001 Caldate : 01-OCT-2004 Caltype :
Standards: 04WS1724

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	78.61700	ng	-2	30	
Pyridine	80.00000	87.22530	ng	9	30	
Phenol	80.00000	80.06610	ng	0	20	
Aniline	80.00000	0.000000	ng	-100	30	m v- ***
bis(2-Chloroethyl)ether	80.00000	79.39530	ng	-1	30	
2-Chlorophenol	80.00000	84.18720	ng	5	30	
1,3-Dichlorobenzene	80.00000	78.10410	ng	-2	30	
1,4-Dichlorobenzene	80.00000	80.73860	ng	1	20	
Benzyl alcohol	80.00000	93.36180	ng	17	30	
1,2-Dichlorobenzene	80.00000	86.08270	ng	8	30	
2-Methylphenol	80.00000	79.93790	ng	0	30	
bis(2-Chloroisopropyl) ether	80.00000	76.09800	ng	-5	30	
4-Methylphenol	80.00000	82.19760	ng	3	30	
N-Nitroso-di-n-propylamine	80.00000	83.72010	ng	5	30	
Hexachloroethane	80.00000	78.84200	ng	-1	30	
Nitrobenzene	80.00000	79.95240	ng	0	30	
Isophorone	80.00000	81.98360	ng	2	30	
2-Nitrophenol	80.00000	82.30940	ng	3	20	
2,4-Dimethylphenol	80.00000	96.04020	ng	20	30	
bis(2-Chloroethoxy)methane	80.00000	75.04620	ng	-6	30	
Benzoic acid	80.00000	132.5312	ng	66	40	m v+ ***
2,4-Dichlorophenol	80.00000	86.32470	ng	8	20	
1,2,4-Trichlorobenzene	80.00000	80.38300	ng	0	30	
Naphthalene	80.00000	80.87640	ng	1	30	
4-Chloroaniline	80.00000	80.31190	ng	0	30	
Hexachlorobutadiene	80.00000	82.28180	ng	3	20	
4-Chloro-3-methylphenol	80.00000	80.94300	ng	1	20	
2-Methylnaphthalene	80.00000	86.44390	ng	8	30	
Hexachlorocyclopentadiene	80.00000	91.03180	ng	14	40	
2,4,6-Trichlorophenol	80.00000	78.49590	ng	-2	20	
2,4,5-Trichlorophenol	80.00000	80.15990	ng	0	30	
2-Chloronaphthalene	80.00000	79.38400	ng	-1	30	
2-Nitroaniline	80.00000	74.43650	ng	-7	30	
Dimethylphthalate	80.00000	72.82870	ng	-9	30	
2,6-Dinitrotoluene	80.00000	74.13810	ng	-7	30	
Acenaphthylene	80.00000	77.38820	ng	-3	30	
3-Nitroaniline	80.00000	79.76400	ng	0	30	
Acenaphthene	80.00000	74.24710	ng	-7	20	
2,4-Dinitrophenol	80.00000	83.37070	ng	4	40	
4-Nitrophenol	80.00000	86.68330	ng	8	40	
Dibenzofuran	80.00000	78.97320	ng	-1	30	
2,4-Dinitrotoluene	80.00000	77.06100	ng	-4	30	
Diethylphthalate	80.00000	77.01070	ng	-4	30	
Fluorene	80.00000	79.81080	ng	0	30	
4-Chlorophenyl-phenylether	80.00000	75.50450	ng	-6	40	
4-Nitroaniline	80.00000	72.75840	ng	-9	30	
4,6-Dinitro-2-methylphenol	80.00000	88.87230	ng	11	30	

+=high bias -=low bias m=manual integration v=ICV

10/2/04

10/04/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA02 Run Name : ICV 80ug/ml
Seqnum : 514396535016 Filename : uj116 Injected : 02-OCT-2004 00:45
Calnum : 514396535001 Caldate : 01-OCT-2004 Caltype :
Standards: 04WS1724

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	89.52750	ng	12	20	
Azobenzene	80.00000	83.12250	ng	4	30	
4-Bromophenyl-phenylether	80.00000	75.80350	ng	-5	30	
Hexachlorobenzene	80.00000	81.28310	ng	2	30	
Pentachlorophenol	80.00000	80.28680	ng	0	20	
Phenanthrene	80.00000	85.24420	ng	7	30	
Anthracene	80.00000	88.48040	ng	11	30	
Carbazole	80.00000	83.69520	ng	5	30	
Di-n-butylphthalate	80.00000	85.14330	ng	6	30	
Fluoranthene	80.00000	87.14480	ng	9	20	
Benzidine	80.00000	174.2972	ng	118	40	v+ ***
Pyrene	80.00000	78.99980	ng	-1	30	
Butylbenzylphthalate	80.00000	89.44300	ng	12	30	
3,3'-Dichlorobenzidine	80.00000	88.74720	ng	11	40	
Benzo(a)anthracene	80.00000	83.71090	ng	5	30	
bis(2-Ethylhexyl)phthalate	80.00000	94.22000	ng	18	30	
Chrysene	80.00000	81.95840	ng	2	30	
Di-n-octylphthalate	80.00000	91.51730	ng	14	20	
Benzo(b)fluoranthene	80.00000	75.77840	ng	-5	30	
Benzo(k)fluoranthene	80.00000	85.76250	ng	7	30	
Benzo(a)pyrene	80.00000	81.20160	ng	2	20	
Indeno(1,2,3-cd)pyrene	80.00000	82.03080	ng	3	30	
Dibenz(a,h)anthracene	80.00000	87.98890	ng	10	30	
Benzo(g,h,i)perylene	80.00000	74.64930	ng	-7	30	
2-Fluorophenol	80.00000	82.44530	ng	3	30	
Phenol-d5	80.00000	81.34500	ng	2	30	
Nitrobenzene-d5	80.00000	80.59080	ng	1	30	
2-Fluorobiphenyl	80.00000	75.18030	ng	-6	30	
2,4,6-Tribromophenol	80.00000	74.94040	ng	-6	30	
Terphenyl-d14	80.00000	80.74320	ng	1	30	

ISTD (CCV=uj108)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	853343	1240143	45.33	7.15	7.16	0.01
Naphthalene-d8	3013719	4182822	38.79	9.26	9.27	0.01
Acenaphthene-d10	1553762	2384818	53.49	12.61	12.62	0.01
Phenanthrene-d10	2368001	3168906	33.82	15.56	15.57	0.01
Chrysene-d12	1695953	2268160	33.74	20.89	20.90	0.01
Perylene-d12	1134701	1167550	2.89	23.64	23.63	-0.01

10/04/04

+=high bias -=low bias m=manual integration v=ICV
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ116.D
Report Date: 02-Oct-2004 19:17

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ116.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 02-OCT-2004 00:45 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICV,04WS1724
Misc Info : ICV 80ug/ml,NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\6PTBNA2.m
Meth Date : 02-Oct-2004 19:12 target Quant Type: ISTD
Cal Date : 02-OCT-2004 00:04 Cal File: UJ115.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 N-Nitrosodimethylamine	42	3.371	3.376	(0.471)	1377404	78.6170	78.6170(Q)
2 Pyridine	79	3.391	3.356	(0.474)	3509219	87.2253	87.2252(Q)
$ 3 2-Fluorophenol	112	5.408	5.393	(0.755)	3477541	82.4453	82.4453
$ 4 Phenol-d5	99	6.678	6.673	(0.933)	4584084	81.3450	81.3449
5 Phenol	94	6.698	6.693	(0.936)	4929523	80.0661	80.0660(Q)
6 Aniline	66	6.719	6.796	(0.939)	267898		(aM) 10/09/04
7 bis(2-Chloroethyl)ether	63	6.800	6.796	(0.950)	2640433	79.3953	79.3952(Q)
8 2-Chlorophenol	128	6.862	6.857	(0.959)	3892273	84.1872	84.1872(Q)
9 1,3-Dichlorobenzene	146	7.067	7.072	(0.987)	3612381	78.1041	78.1041(Q)
* 10 1,4-Dichlorobenzene-d4	152	7.159	7.154	(1.000)	1240143	40.0000	
11 1,4-Dichlorobenzene	146	7.179	7.185	(1.003)	3913638	80.7386	80.7386(Q)
12 Benzyl alcohol	108	7.404	7.400	(1.034)	2640954	93.3618	93.3618(Q)
13 1,2-Dichlorobenzene	146	7.415	7.410	(1.036)	4074002	86.0827	86.0827(Q)
14 2-Methylphenol	107	7.578	7.584	(1.059)	2675092	79.9379	79.9379(Q)
15 bis(2-Chloroisopropyl) ether	45	7.599	7.604	(1.061)	6207207	76.0980	76.0980
16 4-Methylphenol	107	7.845	7.850	(1.096)	4161303	82.1976	82.1975(Q)
17 N-Nitroso-di-n-propylamine	70	7.834	7.840	(1.094)	2055153	83.7201	83.7200(Q)
18 Hexachloroethane	117	7.937	7.932	(1.109)	1707862	78.8420	78.8419(Q)
$ 19 Nitrobenzene-d5	82	8.049	8.055	(0.869)	3020723	80.5908	80.5908(R)
20 Nitrobenzene	77	8.080	8.086	(0.872)	2784029	79.9524	79.9524(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ116.D
Report Date: 02-Oct-2004 19:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	8.500	8.505	(0.917)	6033286	81.9836	81.9835
	22 2,4-Dimethylphenol	122	8.735	8.741	(0.943)	2766264	96.0402	96.0402(Q)
	23 2-Nitrophenol	139	8.612	8.618	(0.929)	2100577	82.3094	82.3094(Q)
	24 Benzoic acid	122	9.124	9.058	(0.985)	1859859	132.531	132.5311(M)
	25 bis(2-Chloroethoxy)methane	93	8.889	8.894	(0.959)	3947190	75.0462	75.0461(Q)
	26 2,4-Dichlorophenol	162	9.053	9.058	(0.977)	2881123	86.3247	86.3247(Q)
	27 1,2,4-Trichlorobenzene	180	9.176	9.181	(0.990)	2949656	80.3830	80.3830(Q)
*	28 Naphthalene-d8	136	9.268	9.273	(1.000)	4182822	40.0000	
	29 Naphthalene	128	9.309	9.314	(1.004)	8844035	80.8764	80.8764
	30 4-Chloroaniline	127	9.442	9.447	(1.019)	3993305	80.3119	80.3119(Q)
	31 Hexachlorobutadiene	225	9.544	9.550	(1.030)	1813290	82.2818	82.2818(Q)
	32 4-Chloro-3-methylphenol	107	10.384	10.379	(1.120)	2740760	80.9430	80.9429(Q)
	33 2-Methylnaphthalene	142	10.599	10.604	(1.144)	6663978	86.4439	86.4439(Q)
	34 Hexachlorocyclopentadiene	237	10.906	10.901	(0.864)	1401838	91.0318	91.0317(Q)
	35 2,4,6-Trichlorophenol	196	11.172	11.167	(0.886)	2033260	78.4959	78.4959(Q)
	36 2,4,5-Trichlorophenol	196	11.233	11.239	(0.890)	2085578	80.1599	80.1599(Q)
$	37 2-Fluorobiphenyl	172	11.336	11.331	(0.899)	5983625	75.1803	75.1802(R)
	38 2-Chloronaphthalene	162	11.530	11.536	(0.914)	5473609	79.3840	79.3839(Q)
	39 2-Nitroaniline	65	11.786	11.781	(0.934)	1456623	74.4365	74.4364(Q)
	40 Dimethylphthalate	163	12.175	12.181	(0.965)	5965805	72.8287	72.8286
	41 2,6-Dinitrotoluene	165	12.298	12.303	(0.975)	1529034	74.1381	74.1381(Q)
	42 Acenaphthylene	152	12.339	12.334	(0.978)	8676218	77.3882	77.3882
	43 3-Nitroaniline	138	12.615	12.621	(1.000)	1816640	79.7640	79.7639(Q)
*	44 Acenaphthene-d10	164	12.615	12.621	(1.000)	2384818	40.0000	
	45 Acenaphthene	154	12.687	12.692	(1.006)	5025144	74.2471	74.2470(Q)
	46 2,4-Dinitrophenol	184	12.830	12.836	(1.017)	980051	83.3707	83.3707(Q)
	47 4-Nitrophenol	109	13.025	13.020	(1.032)	623491	86.6833	86.6833(Q)
	48 2,4-Dinitrotoluene	165	13.096	13.102	(1.038)	1885359	77.0610	77.0609(Q)
	49 Dibenzofuran	168	13.035	13.040	(1.033)	7903748	78.9732	78.9732(Q)
	50 Diethylphthalate	149	13.598	13.604	(1.078)	6620524	77.0107	77.0107
	51 4-Chlorophenyl-phenylether	204	13.752	13.747	(1.090)	3151421	75.5045	75.5045(Q)
	52 Fluorene	166	13.721	13.716	(1.088)	6121171	79.8108	79.8107(Q)
	53 4-Nitroaniline	138	13.864	13.870	(1.099)	1395541	72.7584	72.7584(Q)
	54 4,6-Dinitro-2-methylphenol	198	13.926	13.931	(0.894)	1296330	88.8723	88.8723(Q)
	55 N-Nitrosodiphenylamine	169	14.018	14.023	(0.900)	4170409	89.5275	89.5275(Q)
	56 Azobenzene	77	14.069	14.074	(0.903)	5925044	83.1225	83.1224
$	57 2,4,6-Tribromophenol	330	14.212	14.208	(1.127)	1070265	74.9404	74.9404
	58 4-Bromophenyl-phenylether	248	14.724	14.730	(0.945)	1772614	75.8035	75.8034(Q)
	59 Hexachlorobenzene	284	14.827	14.832	(0.952)	1938525	81.2831	81.2830(Q)
	60 Pentachlorophenol	266	15.236	15.241	(0.978)	1131336	80.2868	80.2868(Q)
*	61 Phenanthrene-d10	188	15.574	15.569	(1.000)	3168906	40.0000	
	62 Phenanthrene	178	15.625	15.631	(1.003)	7672531	85.2442	85.2442
	63 Anthracene	178	15.727	15.733	(1.010)	7715151	88.4804	88.4804
	64 Carbazole	167	16.096	16.101	(1.034)	6756039	83.6952	83.6952
	65 Di-n-butylphthalate	149	16.884	16.879	(1.084)	10675594	85.1433	85.1432
	66 Fluoranthene	202	18.010	18.016	(1.156)	8037874	87.1448	87.1447
	67 Benzidine	184	18.338	18.333	(0.878)	270250	174.297	174.2971
	68 Pyrene	202	18.461	18.466	(0.883)	7351501	78.9998	78.9998
$	69 Terphenyl-d14	244	18.840	18.845	(0.902)	5416360	80.7432	80.7431(R)
	70 Butylbenzylphthalate	149	19.884	19.879	(0.952)	4146145	89.4430	89.4430(Q)
	71 bis(2-Ethylhexyl)phthalate	149	21.071	21.067	(1.008)	5344577	94.2200	94.2199(Q)
	72 3,3'-Dichlorobenzidine	252	20.897	20.903	(1.000)	2253093	88.7472	88.7471(Q)
	73 Benzo(a)anthracene	228	20.877	20.882	(0.999)	6149234	83.7109	83.7108
*	74 Chrysene-d12	240	20.897	20.903	(1.000)	2268160	40.0000	

10/02/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ116.D
Report Date: 02-Oct-2004 19:17

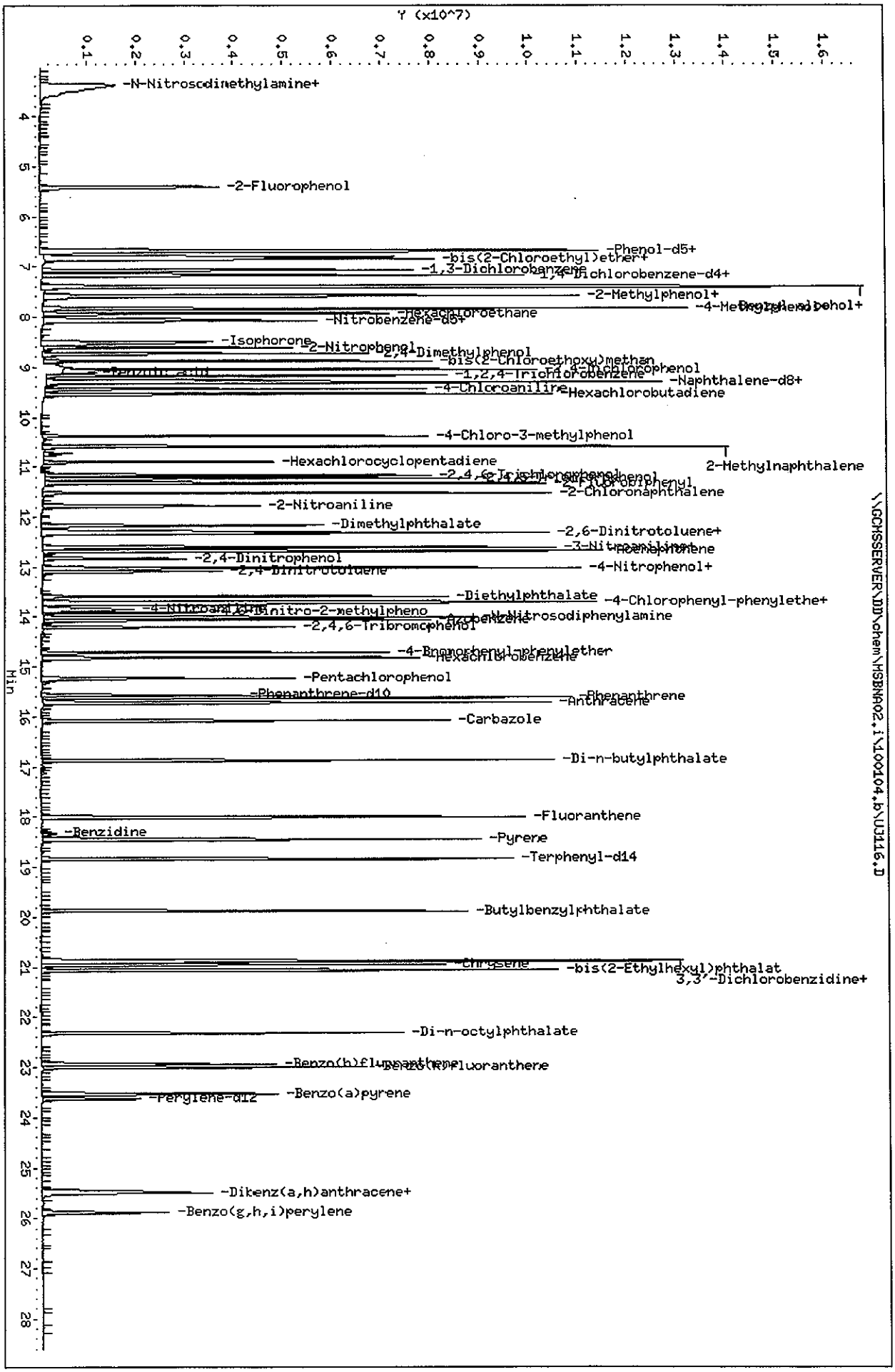
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	20.959	20.964	(1.003)	5274986	81.9584	81.9583
76 Di-n-octylphthalate	149	22.330	22.326	(0.945)	7465097	91.5173	91.5173
77 Benzo(b)fluoranthene	252	22.945	22.950	(0.971)	3920503	75.7784	75.7783
78 Benzo(k)fluoranthene	252	23.006	23.012	(0.974)	4281342	85.7625	85.7625(A)
79 Benzo(a)pyrene	252	23.538	23.544	(0.996)	3495036	81.2016	81.2015
* 80 Perylene-d12	264	23.631	23.636	(1.000)	1167550	40.0000	
81 Dibenz(a,h)anthracene	278	25.504	25.510	(1.079)	2310504	87.9889	87.9889
82 Indeno(1,2,3-cd)pyrene	276	25.473	25.479	(1.078)	2696193	82.0308	82.0308(Q)
83 Benzo(g,h,i)perylene	276	25.893	25.899	(1.096)	1901029	74.6493	74.6493(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ116.D
Date : 02-OCT-2004 00:45
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,04WS1724
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ107.D

Date : 01-OCT-2004 18:37

Client ID: dftpp tune std

Instrument: MSBNA02.i

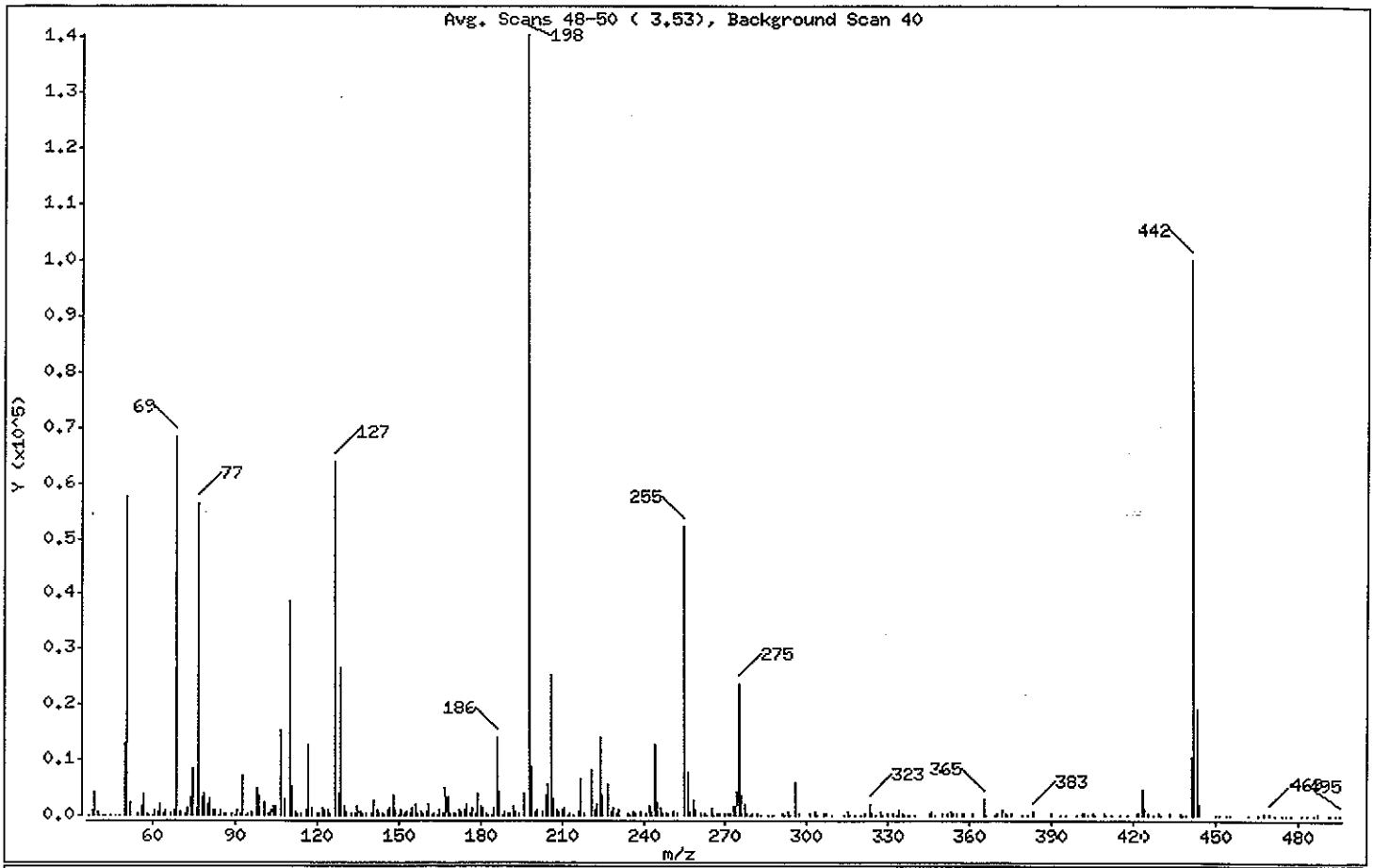
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	41.09
68	Less than 1.99% of mass 69	0.78 (1.61)
69	Mass 69 relative abundance	48.54
70	Less than 2.00% of mass 69	0.37 (0.76)
127	40.00 - 60.00% of mass 198	45.37
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.16
275	10.00 - 30.00% of mass 198	16.81
365	Greater than 1.00% of mass 198	2.06
441	Present, but less than mass 443	7.30
442	40.00 - 99.99% of mass 198	71.27
443	17.00 - 23.00% of mass 442	13.55 (19.01)

8270 BCAC

10/2/03

10/04/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ107.D

Date : 01-OCT-2004 18:37

Client ID: dftpp tune std

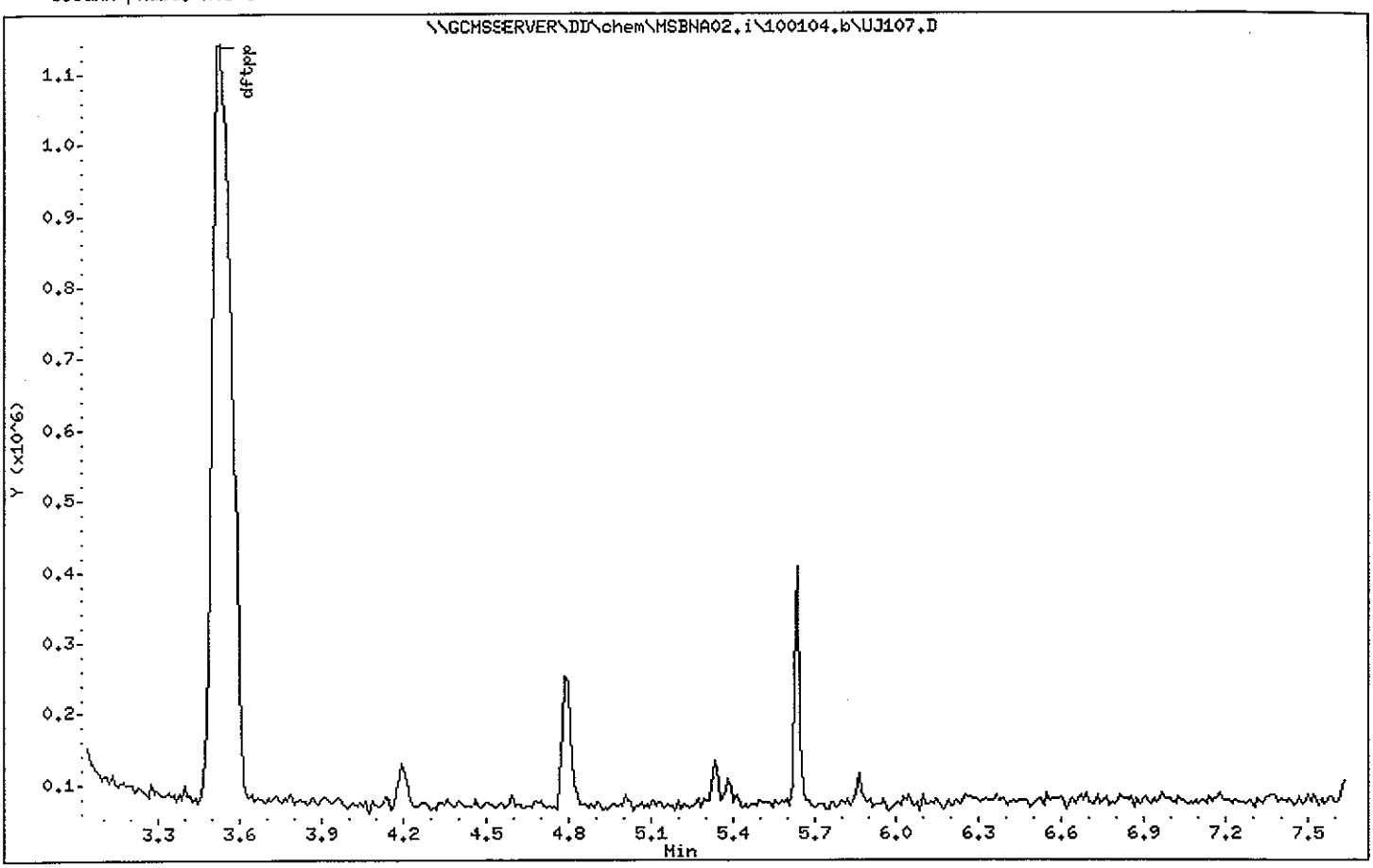
Instrument: MSBNA02.i

Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ107.D

Date : 01-OCT-2004 18:37

Client ID: dftpp tune std

Instrument: MSBNA02.i

Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: UJ107.D
Spectrum: Avg. Scans 48-50 (3.53), Background Scan 40
Location of Maximum: 198.00
Number of points: 319

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	103	133.00	244	218.00	372	333.00	132
38.00	956	134.00	172	221.00	8038	334.00	1120
39.00	4251	135.00	1671	222.00	1032	335.00	421
40.00	534	136.00	519	223.00	1843	336.00	119
41.00	65	137.00	390	224.00	14058	337.00	142
42.00	98	138.00	290	225.00	3565	338.00	95
43.00	35	140.00	375	227.00	5359	340.00	134
45.00	158	141.00	2456	228.00	648	345.00	293
47.00	110	142.00	817	229.00	1443	346.00	698
48.00	13	143.00	337	230.00	418	347.00	109
50.00	12788	144.00	260	231.00	862	350.00	290
51.00	57728	145.00	126	234.00	227	352.00	396
52.00	2253	146.00	851	235.00	19	353.00	567
55.00	372	147.00	1456	236.00	590	354.00	322
56.00	1564	148.00	3418	237.00	326	355.00	220
57.00	3760	149.00	1057	239.00	660	357.00	304
58.00	250	150.00	126	241.00	239	358.00	283
59.00	89	151.00	870	242.00	1495	361.00	174
60.00	131	152.00	447	243.00	599	365.00	2895
61.00	881	153.00	690	244.00	12562	366.00	28
62.00	563	154.00	254	245.00	2379	369.00	116
63.00	1975	155.00	1307	246.00	1377	370.00	337
64.00	411	156.00	1916	247.00	345	372.00	911
65.00	1027	157.00	213	248.00	232	373.00	278
67.00	170	158.00	598	249.00	369	374.00	83
68.00	1097	159.00	215	251.00	544	375.00	228
69.00	68200	160.00	707	252.00	222	379.00	92
70.00	519	161.00	1941	255.00	52224	381.00	129
72.00	195	162.00	109	256.00	7842	383.00	712
73.00	1170	163.00	321	257.00	683	390.00	322
74.00	3307	164.00	138	258.00	2517	393.00	89
75.00	8444	165.00	1023	259.00	883	395.00	113
76.00	1253	166.00	401	261.00	204	399.00	88
77.00	56320	167.00	4981	262.00	178	401.00	380
78.00	3389	168.00	3152	263.00	109	402.00	312

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\100104.b\UJ107.D

Date : 01-OCT-2004 18:37

Client ID: dftpp tune std

Instrument: MSBNA02.i

Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

Data File: UJ107.D
Spectrum: Avg. Scans 48-50 (3.53), Background Scan 40
Location of Maximum: 198.00
Number of points: 319

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	3841	169.00	307	265.00	1279	403.00	99
80.00	2022	170.00	328	266.00	109	405.00	208
81.00	2913	171.00	218	267.00	168	406.00	99
82.00	892	172.00	890	268.00	292	409.00	304
83.00	1018	173.00	491	270.00	203	410.00	88
84.00	101	174.00	1029	271.00	199	412.00	101
85.00	889	175.00	1910	272.00	177	415.00	135
86.00	450	176.00	460	273.00	1546	418.00	98
87.00	240	177.00	1231	274.00	4093	421.00	316
89.00	253	178.00	293	275.00	23624	422.00	437
90.00	104	179.00	4027	276.00	3518	423.00	4583
91.00	984	180.00	1739	277.00	1880	424.00	1417
92.00	449	181.00	1311	278.00	285	425.00	304
93.00	7011	182.00	305	279.00	85	427.00	109
94.00	56	183.00	117	280.00	340	429.00	385
95.00	202	184.00	47	282.00	440	430.00	122
96.00	493	185.00	1280	283.00	135	433.00	174
98.00	4963	186.00	13974	286.00	134	437.00	396
99.00	3703	187.00	4366	287.00	134	438.00	119
101.00	2240	188.00	114	288.00	115	439.00	104
102.00	262	189.00	775	291.00	260	441.00	10258
103.00	1016	190.00	316	292.00	120	442.00	100144
104.00	1662	191.00	433	293.00	700	443.00	19040
105.00	1549	192.00	1699	294.00	128	444.00	1901
107.00	15319	193.00	608	296.00	5979	450.00	84
108.00	2783	194.00	269	297.00	177	451.00	87
110.00	38368	196.00	3732	301.00	271	454.00	98
111.00	5256	198.00	140480	303.00	672	455.00	29
112.00	552	199.00	8651	304.00	128	462.00	90
113.00	242	200.00	801	306.00	286	465.00	117
114.00	213	201.00	910	307.00	224	467.00	186
116.00	1034	203.00	767	309.00	104	469.00	216
117.00	12616	204.00	3536	314.00	115	471.00	103
118.00	1135	205.00	5550	315.00	782	474.00	120
120.00	435	206.00	25320	316.00	16	475.00	125

BNA05 ICAL Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

See grant reports for manual integrations due to splitting/misidentification

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	xj604	544403805004	2ug/mL	06-OCT-2004 12:18	04WS1856
2	xj605	544403805005	10ug/mL	06-OCT-2004 12:56	04WS1857
3	xj606	544403805006	20ug/mL	06-OCT-2004 13:33	04WS1858
4	xj607	544403805007	50ug/mL	06-OCT-2004 14:11	04WS1859
5	xj608	544403805008	80ug/mL	06-OCT-2004 14:48	04WS1860
6	xj609	544403805009	120ug/mL	06-OCT-2004 15:25	04WS1861
7	xj610	544403805010	160ug/mL	06-OCT-2004 16:01	04WS1862

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.3932	0.3889	0.4007	0.4062	0.4018	0.3891	AVRG	R		2.521228		ng	0.3966	2	0.0500	0.99	15	
Pyridine		0.9476	1.0243	1.0376	1.0740	1.0772	1.0637	AVRG	R		0.963955		ng	1.0374	5	0.0500	0.99	15	
Phenol		1.4264	1.4261	1.3755	1.3693	1.3617	1.3334	AVRG	R		0.723546		ng	1.3821	3	0.0500	0.99	15	
Aniline		0.4986	0.4996	0.4949	0.5008	0.5051	0.4914	AVRG	R		2.006485		ng	0.4984	1	0.0500	0.99	15	
bis(2-Chloroethyl)ether		0.7418	0.7077	0.7246	0.7602	0.7600	0.7203	AVRG	R		1.359130		ng	0.7358	3	0.0500	0.99	15	
2-Chlorophenol		1.1879	1.1795	1.2008	1.2271	1.2474	1.2224	AVRG	R		0.825862		ng	1.2109	2	0.0500	0.99	15	
1,3-Dichlorobenzene		1.4720	1.4606	1.4924	1.5461	1.5280	1.4734	AVRG	R		0.668704		ng	1.4954	2	0.0500	0.99	15	
1,4-Dichlorobenzene		1.4797	1.4686	1.5185	1.5059	1.4735	1.4219	AVRG	R		0.676579		ng	1.4780	2	0.0500	0.99	15	
Benzyl alcohol		0.6368	0.6503	0.6826	0.7149	0.7293	0.7218	AVRG	R		1.450761		ng	0.6893	6	0.0500	0.99	15	
1,2-Dichlorobenzene		1.3712	1.3652	1.4148	1.4452	1.4251	1.3496	AVRG	R		0.716743		ng	1.3952	3	0.0500	0.99	15	
2-Methylphenol		0.8053	0.8155	0.8274	0.8307	0.8529	0.7808	AVRG	R		1.221348		ng	0.8188	3	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		1.4944	1.4472	1.4759	1.5000	1.4834	1.3818	AVRG	R		0.683160		ng	1.4638	3	0.0500	0.99	15	
4-Methylphenol		1.2354	1.2418	1.2614	1.2869	1.3185	1.3014	AVRG	R		0.784767		ng	1.2743	3	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.5526	0.5448	0.5690	0.5561	0.5806	0.5530	AVRG	R		1.787769		ng	0.5594	2	0.0500	0.99	15	
Hexachloroethane		0.4939	0.4899	0.5136	0.5260	0.5118	0.4859	AVRG	R		1.986033		ng	0.5035	3	0.0500	0.99	15	
Nitrobenzene		0.2860	0.2799	0.2827	0.2875	0.2830	0.2711	AVRG	R		3.549958		ng	0.2817	2	0.0500	0.99	15	
Isophorone		0.5226	0.5219	0.5233	0.5279	0.5231	0.5238m	AVRG	R		1.909298		ng	0.5238	0	0.0500	0.99	15	
2-Nitrophenol		0.1905	0.1944	0.2008	0.2003	0.1938	0.1825	AVRG	R		5.162365		ng	0.1937	4	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

Benz(b) fluoranthene Calibrated to 80 ug/mL

ICAL: Other except Benzidine fails %RSD + r^2
ICV: Benzoic Acid ↑; Benzidine ↓; Benzo(b)fluoranthene ↑ fail %D
→ 4,6-Dinitro-2-Methylphenol ↑; Carbazole ↓; fail recovery limits

10/07/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2727	0.2814	0.2776	0.2717	0.2608	0.2478	AVRG	R		3.721864		ng	0.2687	5	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.3664	0.3608	0.3741	0.3769	0.3664	0.3500	AVRG	R		2.733963		ng	0.3658	3	0.0500	0.99	15	
Benzoic acid		0.0806	0.1094	0.1589	0.1663	0.1783	0.1865	LINR	R	8.497146	5.154161		ng	0.1467	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3103	0.3178	0.3263	0.3277	0.3240	0.3166	AVRG	R		3.120716		ng	0.3204	2	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3844	0.3912	0.4035	0.4073	0.3965	0.3730	AVRG	R		2.546756		ng	0.3927	3	0.0500	0.99	15	
Naphthalene	0.9203	0.9465	0.9549	0.9944	1.0027	0.9467	0.8415	AVRG	R		1.059503		ng	0.9438	6	0.0500	0.99	15	
4-Chloroaniline		0.3752	0.3831	0.3965	0.4071	0.3997	0.3892	AVRG	R		2.552276		ng	0.3918	3	0.0500	0.99	15	
Hexachlorobutadiene		0.2563	0.2601	0.2682	0.2697	0.2550	0.2358	AVRG	R		3.883419		ng	0.2575	5	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2423	0.2502	0.2578	0.2592	0.2571	0.2545	AVRG	R		3.944592		ng	0.2535	3	0.0500	0.99	15	
2-Methylnaphthalene	0.6804	0.7222	0.7439	0.7744	0.7784	0.7297	0.6594	AVRG	R		1.375631		ng	0.7269	6	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2581	0.2850	0.3363	0.3651	0.3645	0.3484	AVRG	R		3.065112		ng	0.3263	14	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3993	0.3954	0.4241	0.4302	0.4283	0.4195	AVRG	R		2.403008		ng	0.4161	4	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3892	0.3905	0.4159	0.4342	0.4295	0.4101	AVRG	R		2.429734		ng	0.4116	5	0.0500	0.99	15	
2-Chloronaphthalene		1.0352	1.0270	1.0748	1.0973	1.0539	0.9580	AVRG	R		0.960597		ng	1.0410	5	0.0500	0.99	15	
2-Nitroaniline		0.2147	0.2059	0.2128	0.2201	0.2204	0.2102	AVRG	R		4.672480		ng	0.2140	3	0.0500	0.99	15	
Dimethylphthalate		1.1886	1.1943	1.2864	1.3349	1.3124	1.2438	AVRG	R		0.793605		ng	1.2601	5	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2832	0.2861	0.3083	0.3291	0.3203	0.3001	AVRG	R		3.284015		ng	0.3045	6	0.0500	0.99	15	
Acenaphthylene	1.6051	1.6301	1.6339	1.7169	1.7436	1.6550	1.4608	AVRG	R		0.611600		ng	1.6351	6	0.0500	0.99	15	
3-Nitroaniline		0.2643	0.2594	0.2911	0.3048	0.3172	0.2974	AVRG	R		3.459958		ng	0.2890	8	0.0500	0.99	15	
Acenaphthene	0.8957	1.0053	0.9967	1.0590	1.0915	1.0428	0.9469	AVRG	R		0.994608		ng	1.0054	7	0.0500	0.99	15	
2,4-Dinitrophenol		0.1046	0.1390	0.1779	0.1997	0.2190	0.2179	QUAD	R	6.760946	4.687893	-0.00964	ng	0.1763	0.999	0.0500	0.99	15	
4-Nitrophenol		0.0847	0.0906	0.0998	0.1054	0.1037	0.1001	AVRG	R		10.27018		ng	0.0974	8	0.0500	0.99	15	
Dibenzofuran		1.5501	1.5433	1.6203	1.6348	1.5509	1.4214	AVRG	R		0.643711		ng	1.5535	5	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3633	0.3680	0.3956	0.4065	0.4210	0.3937	AVRG	R		2.555161		ng	0.3914	6	0.0500	0.99	15	
Diethylphthalate		1.1224	1.1442	1.2432	1.2307	1.2187	1.0602	AVRG	R		0.854773		ng	1.1699	6	0.0500	0.99	15	
Fluorene	1.2184	1.2549	1.2339	1.3271	1.3398	1.2769	1.1862	AVRG	R		0.792109		ng	1.2625	4	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6794	0.6801	0.7227	0.7398	0.6920	0.6230	AVRG	R		1.450338		ng	0.6895	6	0.0500	0.99	15	
4-Nitroaniline		0.2356	0.2302	0.2510	0.2701	0.2791	0.2546	AVRG	R		3.945640		ng	0.2534	7	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1058	0.1237	0.1357	0.1398	0.1321	0.1180	AVRG	R		7.945568		ng	0.1259	10	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.4318	0.4393	0.4472	0.4665	0.4421	0.4024	AVRG	R		2.281963		ng	0.4382	5	0.0500	0.99	15	
Azobenzene		0.4645	0.4515	0.4479	0.4841	0.4597	0.3794	AVRG	R		2.232740		ng	0.4479	8	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2422	0.2504	0.2601	0.2628	0.2716	0.2529	AVRG	R		3.896161		ng	0.2567	4	0.0500	0.99	15	
Hexachlorobenzene		0.2760	0.2897	0.3049	0.2961	0.2776	0.2669	AVRG	R		3.506151		ng	0.2852	5	0.0500	0.99	15	
Pentachlorophenol			0.1625	0.1782	0.1871	0.1928	0.1946	AVRG	R		5.463593		ng	0.1830	7	0.0500	0.99	15	
Phenanthrene	0.9155	0.9594	0.9834	1.0066	0.9840	0.9404	0.8902	AVRG	R		1.047969		ng	0.9542	4	0.0500	0.99	15	
Anthracene	0.9558	0.9907	1.0267	1.0490	1.0082	0.9827	0.8992	AVRG	R		1.012701		ng	0.9875	5	0.0500	0.99	15	
Carbazole		0.7431	0.7331	0.7820	0.8103	0.8229	0.7956	AVRG	R		1.280122		ng	0.7812	5	0.0500	0.99	15	
Di-n-butylphthalate		1.1957	1.2457	1.1808	1.0728	1.0140	0.9346	AVRG	R		0.903120		ng	1.1073	11	0.0500	0.99	15	
Fluoranthene	1.2041	1.2795	1.3174	1.3302	1.2441	1.1556	1.0462	AVRG	R		0.816123		ng	1.2253	8	0.0500	0.99	15	
Benzidine		0.1063	0.1609	0.1487	0.1208	0.0940	0.0903	AVRG	R		8.322192		ng	0.1202	24	0.0500	0.99	15	rsd
Pyrene	1.1916	1.2666	1.2891	1.3442	1.3054	1.2232	1.1240	AVRG	R		0.800537		ng	1.2492	6	0.0500	0.99	15	
Butylbenzylphthalate		0.4960	0.5000	0.5304	0.5251	0.5011	0.4759	AVRG	R		1.981130		ng	0.5048	4	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.4455	0.4457	0.4845	0.4942	0.4843	0.4596	AVRG	R		2.132342		ng	0.4690	5	0.0500	0.99	15	
Benzo(a)anthracene	1.2592	1.2509	1.2440	1.2960	1.3123	1.3214	1.2571	AVRG	R		0.782915		ng	1.2773	2	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.7302	0.7479	0.7785	0.7713	0.7194	0.6613	AVRG	R		1.361014		ng	0.7347	6	0.0500	0.99	15	
Chrysene	1.0553	1.1132	1.1377	1.2158	1.2198	1.2025	1.1449	AVRG	R		0.865358		ng	1.1556	5	0.0500	0.99	15	
Di-n-octylphthalate		1.3375	1.3347	1.4436	1.4785	1.4623	1.4300	AVRG	R		0.706999		ng	1.4144	4	0.0500	0.99	15	
Benzo(b)fluoranthene	1.2800m	1.3799m	1.3731m	1.6430	1.8431			AVRG	R		0.664974		ng	1.5038	15	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3715	1.4022	1.4316	1.3600	1.2881	1.0775	0.9970m	AVRG	R		0.784060		ng	1.2754	13	0.0500	0.99	15	
Benzo(a)pyrene	1.1905	1.2462	1.2444	1.3169	1.3472	1.3521	1.3353	AVRG	R		0.774969		ng	1.2904	5	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.3637	1.4575	1.4526	1.4330	1.3926	1.3112	1.2333m	AVRG	R		0.725851		ng	1.3777	6	0.0500	0.99	15	
Dibenz(a,h)anthracene	1.0789	1.1622	1.1566	1.1679	1.1513	1.0964	1.0456	AVRG	R		0.890707		ng	1.1227	4	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.1048	1.1891	1.1731	1.1059	1.0520	0.9541	0.8939	AVRG	R		0.936727		ng	1.0675	10	0.0500	0.99	15	
2-Fluorophenol		1.0661	1.0698	1.0979	1.1112	1.1312	1.1208	AVRG	R		0.909503		ng	1.0995	2	0.0500	0.99	15	
Phenol-d5		1.2627	1.2718	1.3343	1.3627	1.3643	1.3195	AVRG	R		0.758013		ng	1.3192	3	0.0500	0.99	15	
Nitrobenzene-d5		0.2923	0.2891	0.2924	0.2969	0.2959	0.2872	AVRG	R		3.421329		ng	0.2923	1	0.0500	0.99	15	
2-Fluorobiphenyl		1.2486	1.2140	1.2872	1.3111	1.2196	1.0575	AVRG	R		0.817663		ng	1.2230	7	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2518	0.2653	0.3044	0.3307	0.3321	0.3146	AVRG	R		3.335325		ng	0.2998	11	0.0500	0.99	15	
Terphenyl-d14		1.0364	1.0575	1.1113	1.0916	1.0369	0.9476	AVRG	R		0.955217		ng	1.0469	5	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 12:18 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1856
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 12:18 Cal File: XJ604.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.147	4.075	(0.618)	18805	2.00000	1.3757
$ 3 2-Fluorophenol	112	5.337	5.337	(0.795)	26366	2.00000	1.8199
$ 4 Phenol-d5	99	6.279	6.289	(0.935)	31727	2.00000	1.8251
5 Phenol	94	6.289	6.310	(0.937)	53807	2.00000	2.9546
6 Aniline	66	6.382	6.393	(0.951)	12487	2.00000	1.9014
7 bis(2-Chloroethyl)ether	63	6.413	6.424	(0.955)	18910	2.00000	1.9505
8 2-Chlorophenol	128	6.507	6.517	(0.969)	30272	2.00000	1.8973
9 1,3-Dichlorobenzene	146	6.672	6.683	(0.994)	37592	2.00000	1.9077
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	527060	40.0000	
11 1,4-Dichlorobenzene	146	6.734	6.735	(1.003)	38272	2.00000	1.9651
12 Benzyl alcohol	108	6.859	6.869	(1.022)	14500	2.00000	1.5964
13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	34621	2.00000	1.8832
14 2-Methylphenol	107	6.972	6.983	(1.039)	21450	2.00000	1.9882
15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	37900	2.00000	1.9649
16 4-Methylphenol	107	7.128	7.149	(1.062)	30588	2.00000	1.8217
17 N-Nitroso-di-n-propylamine	70	7.179	7.211	(1.069)	13882	2.00000	1.8834
18 Hexachloroethane	117	7.304	7.314	(1.088)	12383	2.00000	1.8664
$ 19 Nitrobenzene-d5	82	7.376	7.387	(0.897)	25387	2.00000	1.9391
20 Nitrobenzene	77	7.397	7.418	(0.899)	24822	2.00000	1.9673
21 Isophorone	82	7.645	7.666	(0.930)	44924	2.00000	1.9149

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	22 2,4-Dimethylphenol	122	7.759	7.770	(0.943)	24155	2.00000	2.0071
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	16005	2.00000	1.8446
	24 bis(2-Chloroethoxy)methane	93	7.883	7.894	(0.958)	31270	2.00000	1.9086
	25 Benzoic acid	122	7.811	7.915	(0.950)	5090	2.00000	9.0828(H)
	26 2,4-Dichlorophenol	162	8.038	8.049	(0.977)	26531	2.00000	1.8485
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	33068	2.00000	1.8802
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1791614	40.0000	
	29 Naphthalene	128	8.245	8.256	(1.002)	82441	2.00000	1.9501
	30 4-Chloroaniline	127	8.308	8.318	(1.010)	32056	2.00000	1.8266
	31 Hexachlorobutadiene	225	8.432	8.442	(1.025)	21211	2.00000	1.8390
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	20216	2.00000	1.7803
	33 2-Methylnaphthalene	142	9.074	9.084	(1.103)	60953	2.00000	1.8720
	34 Hexachlorocyclopentadiene	237	9.343	9.353	(0.898)	9426	2.00000	1.0205
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.908)	20997	2.00000	1.7822
	36 2,4,5-Trichlorophenol	196	9.488	9.498	(0.912)	22027	2.00000	1.8904
$	37 2-Fluorobiphenyl	172	9.529	9.539	(0.915)	68835	2.00000	1.9880
	38 2-Chloronaphthalene	162	9.684	9.695	(0.930)	56528	2.00000	1.9180
	39 2-Nitroaniline	65	9.839	9.850	(0.945)	11741	2.00000	1.9377
	40 Dimethylphthalate	163	10.057	10.067	(0.966)	66232	2.00000	1.8566
	41 2,6-Dinitrotoluene	165	10.171	10.181	(0.977)	14667	2.00000	1.7013
	42 Acenaphthylene	152	10.222	10.233	(0.982)	90885	2.00000	1.9633
	43 3-Nitroaniline	138	10.347	10.367	(0.994)	14532	2.00000	1.7760
*	44 Acenaphthene-d10	164	10.409	10.419	(1.000)	1132432	40.0000	
	45 Acenaphthene	154	10.450	10.461	(1.004)	50717	2.00000	1.7817
	46 2,4-Dinitrophenol	184	10.471	10.492	(1.006)	1789	2.00000	7.0571(M)
	47 4-Nitrophenol	109	10.502	10.533	(1.009)	4335	2.00000	1.5725
	48 Dibenzofuran	168	10.636	10.647	(1.022)	84975	2.00000	1.9321
	49 2,4-Dinitrotoluene	165	10.657	10.678	(1.024)	18857	2.00000	1.7019
	50 Diethylphthalate	149	10.916	10.937	(1.049)	60872	2.00000	1.8378
	51 4-Chlorophenyl-phenylether	204	11.030	11.040	(1.060)	37217	2.00000	1.9065
	52 Fluorene	166	11.071	11.082	(1.064)	68989	2.00000	1.9302
	53 4-Nitroaniline	138	11.112	11.154	(1.068)	12681	2.00000	1.7673
	54 4,6-Dinitro-2-methylphenol	198	11.164	11.195	(0.911)	5814	2.00000	0.8858
	55 N-Nitrosodiphenylamine	169	11.185	11.206	(0.913)	44407	2.00000	1.9432
	56 Azobenzene	77	11.226	11.247	(0.916)	48894	2.00000	2.0934
$	57 2,4,6-Tribromophenol	330	11.402	11.413	(1.095)	12719	2.00000	1.4984
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.951)	24050	2.00000	1.7968
	59 Hexachlorobenzene	284	11.868	11.879	(0.969)	27361	2.00000	1.8396
	60 Pentachlorophenol	266	12.075	12.086	(0.986)	9668	2.00000	1.0129
*	61 Phenanthrene-d10	188	12.251	12.262	(1.000)	2085902	40.0000	
	62 Phenanthrene	178	12.282	12.293	(1.003)	95478	2.00000	1.9187
	63 Anthracene	178	12.334	12.344	(1.007)	99685	2.00000	1.9358
	64 Carbazole	167	12.520	12.531	(1.022)	85802	2.00000	2.1062
	65 Di-n-butylphthalate	149	12.924	12.924	(1.055)	120580	2.00000	2.0882
	66 Fluoranthene	202	13.773	13.783	(1.124)	125583	2.00000	1.9654
	67 Benzidine	184	13.907	13.907	(0.872)	17746	2.00000	2.5833(M)
	68 Pyrene	202	14.062	14.083	(0.882)	129624	2.00000	1.9079
$	69 Terphenyl-d14	244	14.207	14.218	(0.891)	106995	2.00000	1.8791
	70 Butylbenzylphthalate	149	14.870	14.880	(0.932)	51921	2.00000	1.8912
	71 3,3'-Dichlorobenzidine	252	15.822	15.853	(0.992)	49503	2.00000	1.9407
	72 Benzo(a)anthracene	228	15.894	15.915	(0.997)	136977	2.00000	1.9717
*	73 Chrysene-d12	240	15.946	15.957	(1.000)	2175557	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.812	15.822	(0.992)	74721	2.00000	1.8697
	75 Chrysene	228	15.977	16.008	(1.002)	114790	2.00000	1.8263

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Report Date: 07-Oct-2004 09:43

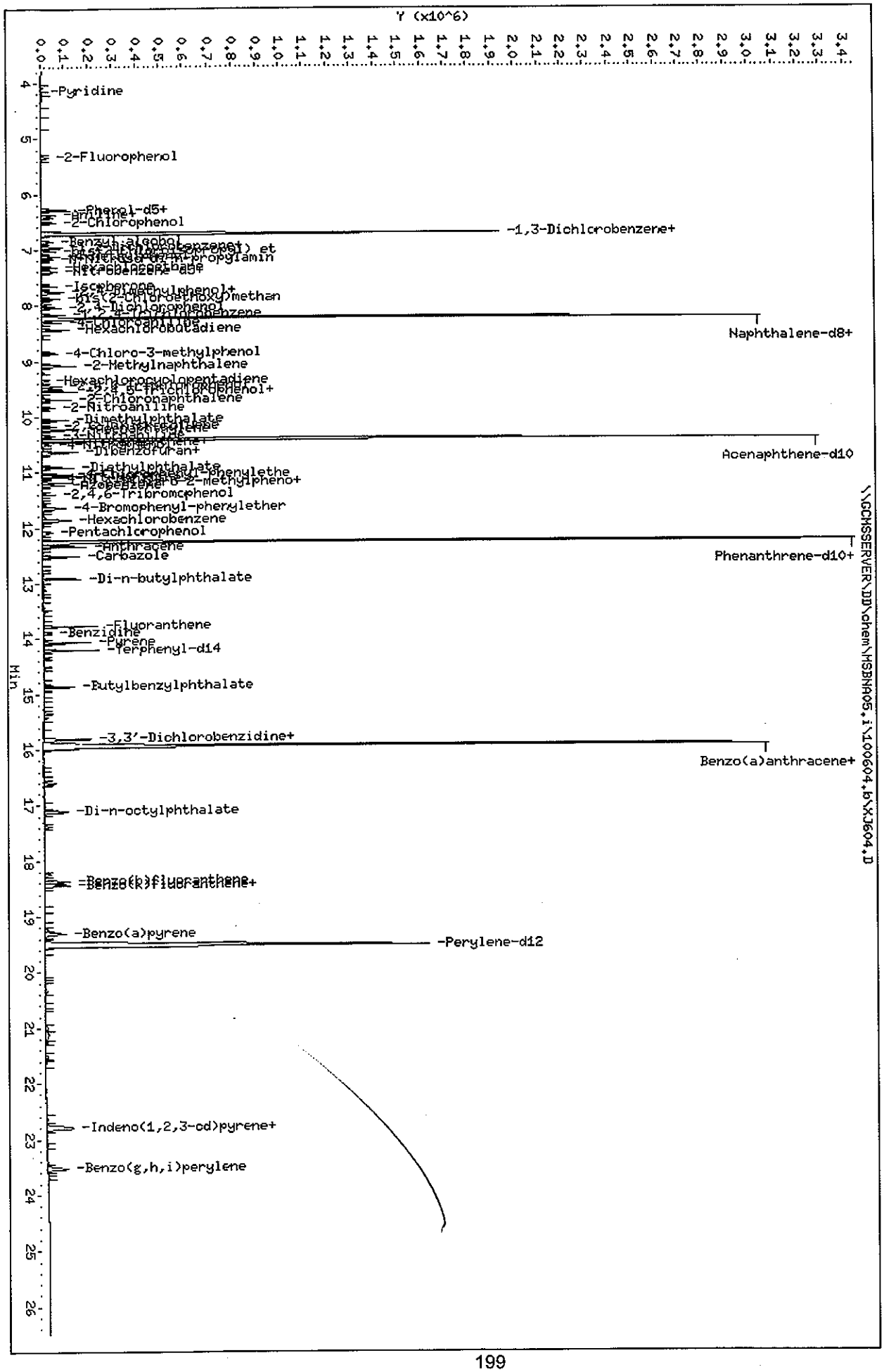
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
76 Di-n-octylphthalate	149	17.116	17.137	(0.877)	122977	2.00000	1.7438
77 Benzo(b)fluoranthene	252	18.368	18.431	(0.941)	127631	2.00000	7.5743(M)
78 Benzo(k)fluoranthene	252	18.430	18.503	(0.944)	136754	2.00000	2.1506(A)
79 Benzo(a)pyrene	252	19.310	19.372	(0.989)	118708	2.00000	1.8451
* 80 Perylene-d12	264	19.527	19.538	(1.000)	1994263	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.777	22.860	(1.166)	135979	2.00000	1.9796
82 Dibenz(a,h)anthracene	278	22.808	22.891	(1.168)	107583	2.00000	1.9220
83 Benzo(g,h,i)perylene	276	23.522	23.605	(1.205)	110159	2.00000	2.0697

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Date : 06-OCT-2004 12:18
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1856
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 12:56 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1857
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 12:56 Cal File: XJ605.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.085	4.075	(0.608)	120634	10.0000	9.1343
2 N-Nitrosodimethylamine	42	4.085	4.085	(0.608)	50058	10.0000	9.9137
$ 3 2-Fluorophenol	112	5.337	5.337	(0.795)	135718	10.0000	9.6959
$ 4 Phenol-d5	99	6.279	6.289	(0.935)	160750	10.0000	9.5714
5 Phenol	94	6.289	6.310	(0.937)	181589	10.0000	10.3206
6 Aniline	66	6.383	6.393	(0.951)	63471	10.0000	10.0037
7 bis(2-Chloroethyl)ether	63	6.414	6.424	(0.955)	94439	10.0000	10.0823
8 2-Chlorophenol	128	6.507	6.517	(0.969)	151229	10.0000	9.8105
9 1,3-Dichlorobenzene	146	6.672	6.683	(0.994)	187392	10.0000	9.8431
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	509225	40.0000	
11 1,4-Dichlorobenzene	146	6.734	6.735	(1.003)	188370	10.0000	10.0110
12 Benzyl alcohol	108	6.859	6.869	(1.022)	81074	10.0000	9.2390
13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	174564	10.0000	9.8280
14 2-Methylphenol	107	6.973	6.983	(1.039)	102523	10.0000	9.8358
15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	190243	10.0000	10.2089
16 4-Methylphenol	107	7.128	7.149	(1.062)	157279	10.0000	9.6953
17 N-Nitroso-di-n-propylamine	70	7.190	7.211	(1.071)	70347	10.0000	9.8788
18 Hexachloroethane	117	7.304	7.314	(1.088)	62879	10.0000	9.8093
$ 19 Nitrobenzene-d5	82	7.376	7.387	(0.897)	128966	10.0000	10.0002
20 Nitrobenzene	77	7.397	7.418	(0.899)	126192	10.0000	10.1530

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.656	7.666	(0.931)	230571	10.0000	9.9774
	22 2,4-Dimethylphenol	122	7.759	7.770	(0.943)	120331	10.0000	10.1503
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	84035	10.0000	9.8321
	24 bis(2-Chloroethoxy)methane	93	7.883	7.894	(0.958)	161680	10.0000	10.0182
	25 Benzoic acid	122	7.832	7.915	(0.952)	35572	10.0000	12.6524(H)
	26 2,4-Dichlorophenol	162	8.039	8.049	(0.977)	136895	10.0000	9.6824
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	169601	10.0000	9.7894
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1764894	40.0000	
	29 Naphthalene	128	8.246	8.256	(1.002)	417597	10.0000	10.0276
	30 4-Chloroaniline	127	8.308	8.318	(1.010)	165559	10.0000	9.5768
	31 Hexachlorobutadiene	225	8.432	8.442	(1.025)	113067	10.0000	9.9515
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	106903	10.0000	9.5572
	33 2-Methylnaphthalene	142	9.074	9.084	(1.103)	318660	10.0000	9.9350
	34 Hexachlorocyclopentadiene	237	9.343	9.353	(0.898)	73424	10.0000	7.9109
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.908)	113592	10.0000	9.5949
	36 2,4,5-Trichlorophenol	196	9.488	9.498	(0.912)	110724	10.0000	9.4567
$	37 2-Fluorobiphenyl	172	9.529	9.539	(0.915)	355221	10.0000	10.2097
	38 2-Chloronaphthalene	162	9.684	9.695	(0.930)	294493	10.0000	9.9439
	39 2-Nitroaniline	65	9.840	9.850	(0.945)	61069	10.0000	10.0302
	40 Dimethylphthalate	163	10.057	10.067	(0.966)	338141	10.0000	9.4328
	41 2,6-Dinitrotoluene	165	10.171	10.181	(0.977)	80566	10.0000	9.3003
	42 Acenaphthylene	152	10.223	10.233	(0.982)	463732	10.0000	9.9695
	43 3-Nitroaniline	138	10.357	10.367	(0.995)	75193	10.0000	9.1451
*	44 Acenaphthene-d10	164	10.409	10.419	(1.000)	1137937	40.0000	
	45 Acenaphthene	154	10.450	10.461	(1.004)	286002	10.0000	9.9991
	46 2,4-Dinitrophenol	184	10.471	10.492	(1.006)	29760	10.0000	11.6544
	47 4-Nitrophenol	109	10.502	10.533	(1.009)	24109	10.0000	8.7035
	48 Dibenzofuran	168	10.637	10.647	(1.022)	440989	10.0000	9.9783
	49 2,4-Dinitrotoluene	165	10.657	10.678	(1.024)	103355	10.0000	9.2830
	50 Diethylphthalate	149	10.916	10.937	(1.049)	319295	10.0000	9.5936
	51 4-Chlorophenyl-phenylether	204	11.030	11.040	(1.060)	193285	10.0000	9.8539
	52 Fluorene	166	11.071	11.082	(1.064)	356989	10.0000	9.9398
	53 4-Nitroaniline	138	11.123	11.154	(1.069)	67037	10.0000	9.2976
	54 4,6-Dinitro-2-methylphenol	198	11.164	11.195	(0.911)	55626	10.0000	8.4048
	55 N-Nitrosodiphenylamine	169	11.185	11.206	(0.913)	227049	10.0000	9.8527
	56 Azobenzene	77	11.226	11.247	(0.916)	244276	10.0000	10.3716
$	57 2,4,6-Tribromophenol	330	11.402	11.413	(1.095)	71642	10.0000	8.3993
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.951)	127339	10.0000	9.4346
	59 Hexachlorobenzene	284	11.868	11.879	(0.969)	145150	10.0000	9.6777
	60 Pentachlorophenol	266	12.075	12.086	(0.986)	74151	10.0000	7.7041
*	61 Phenanthrene-d10	188	12.251	12.262	(1.000)	2103453	40.0000	
	62 Phenanthrene	178	12.282	12.293	(1.003)	504539	10.0000	10.0547
	63 Anthracene	178	12.334	12.344	(1.007)	520958	10.0000	10.0325
	64 Carbazole	167	12.520	12.531	(1.022)	390789	10.0000	9.5130
	65 Di-n-butylphthalate	149	12.924	12.924	(1.055)	628763	10.0000	10.7984
	66 Fluoranthene	202	13.773	13.783	(1.124)	672844	10.0000	10.4423
	67 Benzidine	184	13.897	13.907	(0.871)	57750	10.0000	8.4133
	68 Pyrene	202	14.073	14.083	(0.883)	688358	10.0000	10.1395
$	69 Terphenyl-d14	244	14.207	14.218	(0.891)	563258	10.0000	9.8999
	70 Butylbenzylphthalate	149	14.870	14.880	(0.932)	269574	10.0000	9.8268
	71 3,3'-Dichlorobenzidine	252	15.822	15.853	(0.992)	242119	10.0000	9.4996
	72 Benzo(a)anthracene	228	15.894	15.915	(0.997)	679820	10.0000	9.7933
*	73 Chrysene-d12	240	15.946	15.957	(1.000)	2173882	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.812	15.822	(0.992)	396842	10.0000	9.9381

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Report Date: 07-Oct-2004 09:43

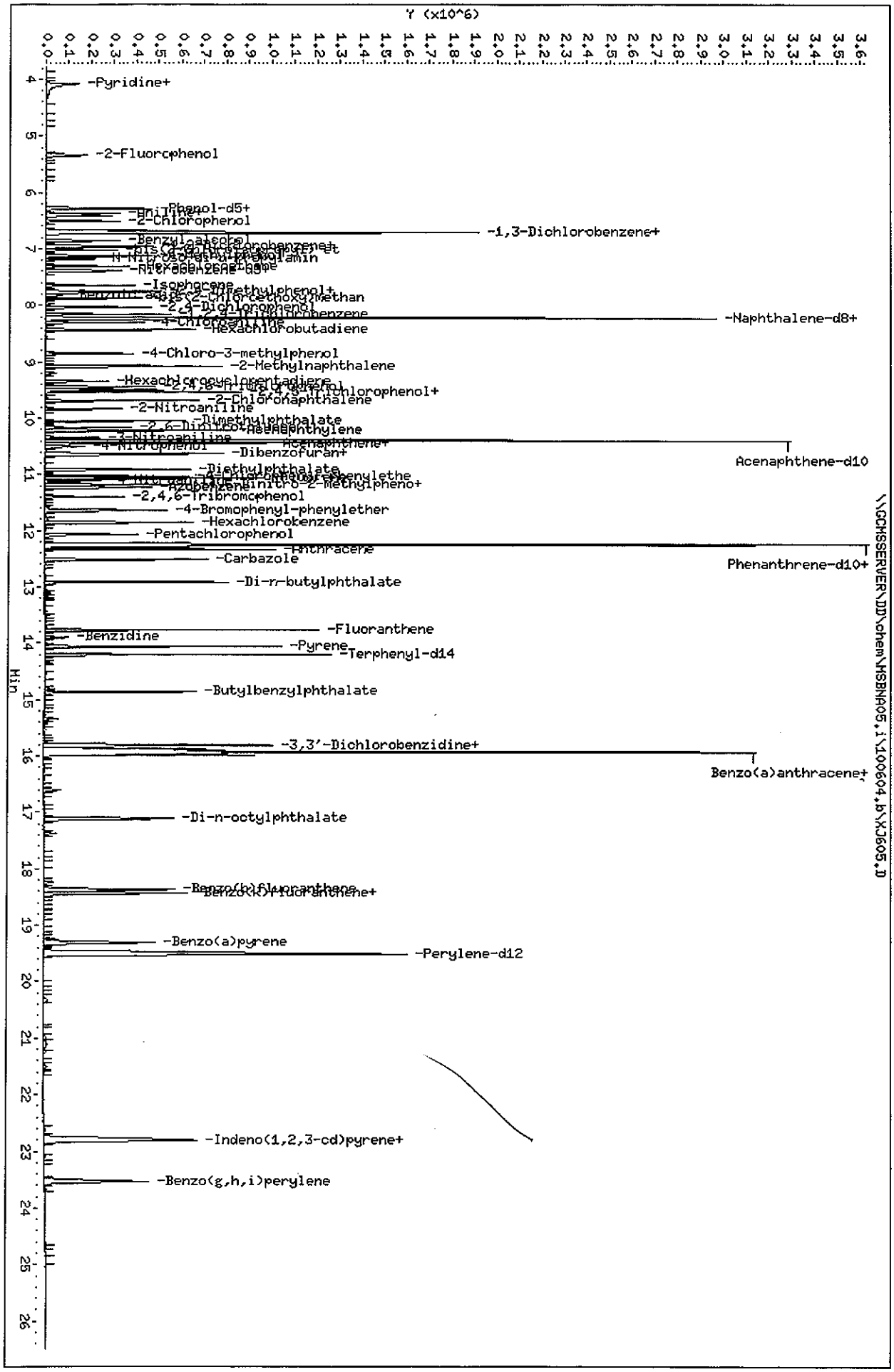
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	15.988	16.008	(1.003)	605015	10.0000	9.6335
76 Di-n-octylphthalate	149	17.116	17.137	(0.877)	658486	10.0000	9.4561
77 Benzo(b)fluoranthene	252	18.379	18.431	(0.942)	679355	10.0000	12.7390(M)
78 Benzo(k)fluoranthene	252	18.441	18.503	(0.945)	690358	10.0000	10.9944(A)
79 Benzo(a)pyrene	252	19.320	19.372	(0.990)	613548	10.0000	9.6578
* 80 Perylene-d12	264	19.517	19.538	(1.000)	1969300	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.788	22.860	(1.168)	717554	10.0000	10.5791
82 Dibenz(a,h)anthracene	278	22.819	22.891	(1.169)	572163	10.0000	10.3514
83 Benzo(g,h,i)perylene	276	23.543	23.605	(1.206)	585426	10.0000	11.1386

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Date : 06-OCT-2004 12:56
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1857
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 13:33 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1858
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 13:33 Cal File: XJ606.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.075	4.075	(0.607)	272349	20.0000	19.7472
2 N-Nitrosodimethylamine	42	4.085	4.085	(0.608)	103396	20.0000	19.6082
$ 3 2-Fluorophenol	112	5.337	5.337	(0.795)	284444	20.0000	19.4591
$ 4 Phenol-d5	99	6.279	6.289	(0.935)	338174	20.0000	19.2815
5 Phenol	94	6.300	6.310	(0.938)	379199	20.0000	20.6375
6 Aniline	66	6.383	6.393	(0.951)	132831	20.0000	20.0474
7 bis(2-Chloroethyl)ether	63	6.414	6.424	(0.955)	188183	20.0000	19.2382
8 2-Chlorophenol	128	6.507	6.517	(0.969)	313620	20.0000	19.4820
9 1,3-Dichlorobenzene	146	6.672	6.683	(0.994)	388364	20.0000	19.5342
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	531785	40.0000	
11 1,4-Dichlorobenzene	146	6.735	6.735	(1.003)	390502	20.0000	19.8731
12 Benzyl alcohol	108	6.859	6.869	(1.022)	172901	20.0000	18.8676
13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	362995	20.0000	19.5698
14 2-Methylphenol	107	6.973	6.983	(1.039)	216835	20.0000	19.9201
15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	384812	20.0000	19.7740
16 4-Methylphenol	107	7.138	7.149	(1.063)	330193	20.0000	19.4909
17 N-Nitroso-di-n-propylamine	70	7.190	7.211	(1.071)	144853	20.0000	19.4788
18 Hexachloroethane	117	7.304	7.314	(1.088)	130259	20.0000	19.4588
$ 19 Nitrobenzene-d5	82	7.387	7.387	(0.898)	265427	20.0000	19.7793
20 Nitrobenzene	77	7.407	7.418	(0.901)	256990	20.0000	19.8706

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.656	7.666	(0.931)	479220	20.0000	19.9288
	22 2,4-Dimethylphenol	122	7.770	7.770	(0.945)	258390	20.0000	20.9463
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	178516	20.0000	20.0723
	24 bis(2-Chloroethoxy)methane	93	7.883	7.894	(0.958)	331265	20.0000	19.7260
	25 Benzoic acid	122	7.863	7.915	(0.956)	100425	20.0000	19.7709
	26 2,4-Dichlorophenol	162	8.039	8.049	(0.977)	291851	20.0000	19.8375
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	359249	20.0000	19.9276
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1836485	40.0000	
	29 Naphthalene	128	8.246	8.256	(1.002)	876791	20.0000	20.2334
	30 4-Chloroaniline	127	8.308	8.318	(1.010)	351809	20.0000	19.5572
	31 Hexachlorobutadiene	225	8.432	8.442	(1.025)	238831	20.0000	20.2012
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	229768	20.0000	19.7407
	33 2-Methylnaphthalene	142	9.084	9.084	(1.104)	683116	20.0000	20.4677
	34 Hexachlorocyclopentadiene	237	9.343	9.353	(0.897)	174764	20.0000	17.4737
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.907)	242441	20.0000	19.0041
	36 2,4,5-Trichlorophenol	196	9.498	9.498	(0.912)	239434	20.0000	18.9771
$	37 2-Fluorobiphenyl	172	9.529	9.539	(0.915)	744313	20.0000	19.8526
	38 2-Chloronaphthalene	162	9.695	9.695	(0.930)	629672	20.0000	19.7307
	39 2-Nitroaniline	65	9.840	9.850	(0.944)	126269	20.0000	19.2456
	40 Dimethylphthalate	163	10.057	10.067	(0.965)	732242	20.0000	18.9559
	41 2,6-Dinitrotoluene	165	10.171	10.181	(0.976)	175404	20.0000	18.7902
	42 Acenaphthylene	152	10.223	10.233	(0.981)	1001767	20.0000	19.9858
	43 3-Nitroaniline	138	10.357	10.367	(0.994)	159042	20.0000	17.9502
*	44 Acenaphthene-d10	164	10.419	10.419	(1.000)	1226232	40.0000	
	45 Acenaphthene	154	10.450	10.461	(1.003)	611072	20.0000	19.8258
	46 2,4-Dinitrophenol	184	10.481	10.492	(1.006)	85200	20.0000	19.7153
	47 4-Nitrophenol	109	10.512	10.533	(1.009)	55519	20.0000	18.5997
	48 Dibenzofuran	168	10.637	10.647	(1.021)	946231	20.0000	19.8689
	49 2,4-Dinitrotoluene	165	10.668	10.678	(1.024)	225635	20.0000	18.8066
	50 Diethylphthalate	149	10.926	10.937	(1.049)	701522	20.0000	19.5604
	51 4-Chlorophenyl-phenylether	204	11.040	11.040	(1.060)	416956	20.0000	19.7263
	52 Fluorene	166	11.071	11.082	(1.063)	756509	20.0000	19.5472
	53 4-Nitroaniline	138	11.133	11.154	(1.069)	141111	20.0000	18.1620
	54 4,6-Dinitro-2-methylphenol	198	11.175	11.195	(0.911)	137833	20.0000	19.6566
	55 N-Nitrosodiphenylamine	169	11.195	11.206	(0.913)	489500	20.0000	20.0490
	56 Azobenzene	77	11.237	11.247	(0.916)	503145	20.0000	20.1633
$	57 2,4,6-Tribromophenol	330	11.402	11.413	(1.094)	162675	20.0000	17.6989
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.950)	279051	20.0000	19.5142
	59 Hexachlorobenzene	284	11.868	11.879	(0.968)	322834	20.0000	20.3161
	60 Pentachlorophenol	266	12.075	12.086	(0.985)	181111	20.0000	17.7604
*	61 Phenanthrene-d10	188	12.262	12.262	(1.000)	2228579	40.0000	
	62 Phenanthrene	178	12.282	12.293	(1.002)	1095840	20.0000	20.6123
	63 Anthracene	178	12.334	12.344	(1.006)	1144068	20.0000	20.7953
	64 Carbazole	167	12.520	12.531	(1.021)	816896	20.0000	18.7693
	65 Di-n-butylphthalate	149	12.924	12.924	(1.054)	1388124	20.0000	22.5011
	66 Fluoranthene	202	13.783	13.783	(1.124)	1467955	20.0000	21.5030
	67 Benzidine	184	13.907	13.907	(0.872)	186118	20.0000	25.4772
	68 Pyrene	202	14.073	14.083	(0.883)	1491246	20.0000	20.6395
$	69 Terphenyl-d14	244	14.207	14.218	(0.891)	1223322	20.0000	20.2028
	70 Butylbenzylphthalate	149	14.880	14.880	(0.933)	578449	20.0000	19.8128
	71 3,3'-Dichlorobenzidine	252	15.832	15.853	(0.993)	515538	20.0000	19.0058
	72 Benzo(a)anthracene	228	15.894	15.915	(0.997)	1439054	20.0000	19.4787
*	73 Chrysene-d12	240	15.946	15.957	(1.000)	2313613	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.812	15.822	(0.992)	865128	20.0000	20.3569

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Report Date: 07-Oct-2004 09:43

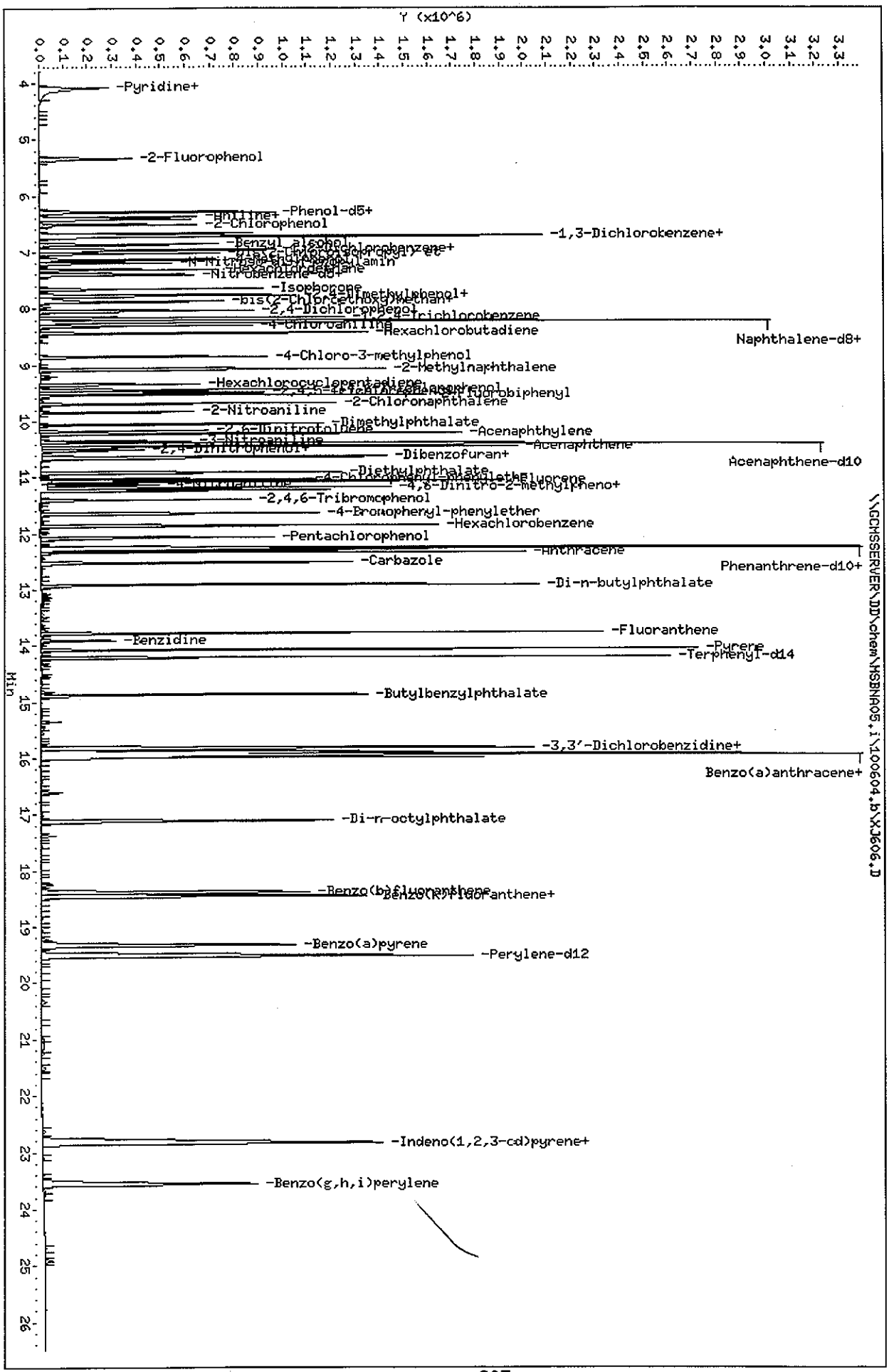
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	15.998	16.008	(1.003)	1316062	20.0000	19.6897
76 Di-n-octylphthalate	149	17.116	17.137	(0.877)	1401222	20.0000	18.8720
77 Benzo(b)fluoranthene	252	18.389	18.431	(0.942)	1441590	20.0000	19.0178 (M)
78 Benzo(k)fluoranthene	252	18.461	18.503	(0.945)	1503026	20.0000	22.4496 (A)
79 Benzo(a)pyrene	252	19.331	19.372	(0.990)	1306426	20.0000	19.2869
* 80 Perylene-d12	264	19.527	19.538	(1.000)	2099742	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.808	22.860	(1.168)	1525003	20.0000	21.0868
82 Dibenz(a,h)anthracene	278	22.839	22.891	(1.170)	1214245	20.0000	20.6032
83 Benzo(g,h,i)perylene	276	23.564	23.605	(1.207)	1231585	20.0000	21.9771

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Date : 06-OCT-2004 13:33
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1858
Volume Injected (ul): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 14:11 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1859
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 14:11 Cal File: XJ607.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	4.075	4.075	(0.607)	666172	50.0000	50.0106
	2 N-Nitrosodimethylamine	42	4.085	4.085	(0.608)	257238	50.0000	50.5087
$	3 2-Fluorophenol	112	5.337	5.337	(0.795)	704902	50.0000	49.9289
$	4 Phenol-d5	99	6.289	6.289	(0.937)	856649	50.0000	50.5707
	5 Phenol	94	6.310	6.310	(0.940)	883126	50.0000	49.7632
	6 Aniline	66	6.393	6.393	(0.952)	317733	50.0000	49.6498
	7 bis(2-Chloroethyl)ether	63	6.424	6.424	(0.957)	465216	50.0000	49.2419
	8 2-Chlorophenol	128	6.517	6.517	(0.971)	770922	50.0000	49.5835
	9 1,3-Dichlorobenzene	146	6.683	6.683	(0.995)	958162	50.0000	49.8991
*	10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	513618	40.0000	
	11 1,4-Dichlorobenzene	146	6.735	6.735	(1.003)	974897	50.0000	51.3685
	12 Benzyl alcohol	108	6.869	6.869	(1.023)	438250	50.0000	49.5150
	13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	908347	50.0000	50.7031
	14 2-Methylphenol	107	6.983	6.983	(1.040)	531207	50.0000	50.5269
	15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	947533	50.0000	50.4123
	16 4-Methylphenol	107	7.149	7.149	(1.065)	809877	50.0000	49.4970
	17 N-Nitroso-di-n-propylamine	70	7.211	7.211	(1.074)	365305	50.0000	50.8612
	18 Hexachloroethane	117	7.314	7.314	(1.089)	329713	50.0000	50.9967
$	19 Nitrobenzene-d5	82	7.387	7.387	(0.898)	657570	50.0000	50.0124
	20 Nitrobenzene	77	7.418	7.418	(0.902)	635854	50.0000	50.1790

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.666	7.666	(0.932)	1176989	50.0000	49.9560
	22 2,4-Dimethylphenol	122	7.770	7.770	(0.945)	624428	50.0000	51.6635
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	451665	50.0000	51.8330
	24 bis(2-Chloroethoxy)methane	93	7.894	7.894	(0.960)	841401	50.0000	51.1372
	25 Benzoic acid	122	7.914	7.914	(0.962)	357393	50.0000	49.4463
	26 2,4-Dichlorophenol	162	8.049	8.049	(0.979)	733803	50.0000	50.9067
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	907655	50.0000	51.3866
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1799361	40.0000	
	29 Naphthalene	128	8.256	8.256	(1.004)	2236529	50.0000	52.6766
	30 4-Chloroaniline	127	8.318	8.318	(1.011)	891868	50.0000	50.6022
	31 Hexachlorobutadiene	225	8.442	8.442	(1.026)	603187	50.0000	52.0724
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	579859	50.0000	50.8471
	33 2-Methylnaphthalene	142	9.084	9.084	(1.104)	1741801	50.0000	53.2650
	34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.898)	493103	50.0000	51.5425
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.907)	621842	50.0000	50.9585
	36 2,4,5-Trichlorophenol	196	9.498	9.498	(0.912)	609763	50.0000	50.5244
$	37 2-Fluorobiphenyl	172	9.539	9.539	(0.916)	1887214	50.0000	52.6232
	38 2-Chloronaphthalene	162	9.695	9.695	(0.930)	1575845	50.0000	51.6222
	39 2-Nitroaniline	65	9.850	9.850	(0.945)	311946	50.0000	49.7060
	40 Dimethylphthalate	163	10.067	10.067	(0.966)	1886113	50.0000	51.0451
	41 2,6-Dinitrotoluene	165	10.181	10.181	(0.977)	452020	50.0000	50.6226
	42 Acenaphthylene	152	10.233	10.233	(0.982)	2517260	50.0000	52.5022
	43 3-Nitroaniline	138	10.367	10.367	(0.995)	426774	50.0000	50.3559
*	44 Acenaphthene-d10	164	10.419	10.419	(1.000)	1172946	40.0000	
	45 Acenaphthene	154	10.461	10.461	(1.004)	1552621	50.0000	52.6622
	46 2,4-Dinitrophenol	184	10.492	10.492	(1.007)	260785	50.0000	47.6896
	47 4-Nitrophenol	109	10.533	10.533	(1.011)	146254	50.0000	51.2233
	48 Dibenzofuran	168	10.647	10.647	(1.022)	2375707	50.0000	52.1513
	49 2,4-Dinitrotoluene	165	10.678	10.678	(1.025)	580020	50.0000	50.5409
	50 Diethylphthalate	149	10.937	10.937	(1.050)	1822703	50.0000	53.1311
	51 4-Chlorophenyl-phenylether	204	11.040	11.040	(1.060)	1059634	50.0000	52.4091
	52 Fluorene	166	11.082	11.082	(1.064)	1945822	50.0000	52.5618
	53 4-Nitroaniline	138	11.154	11.154	(1.071)	368014	50.0000	49.5180
	54 4,6-Dinitro-2-methylphenol	198	11.195	11.195	(0.913)	390146	50.0000	53.9128
	55 N-Nitrosodiphenylamine	169	11.206	11.206	(0.914)	1285747	50.0000	51.0274
	56 Azobenzene	77	11.247	11.247	(0.917)	1287801	50.0000	50.0065
$	57 2,4,6-Tribromophenol	330	11.413	11.413	(1.095)	446339	50.0000	50.7674
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.950)	747785	50.0000	50.6703
	59 Hexachlorobenzene	284	11.879	11.879	(0.969)	876621	50.0000	53.4542
	60 Pentachlorophenol	266	12.086	12.086	(0.986)	512224	50.0000	48.6718
*	61 Phenanthrene-d10	188	12.262	12.262	(1.000)	2299959	40.0000	
	62 Phenanthrene	178	12.293	12.293	(1.003)	2894051	50.0000	52.7466
	63 Anthracene	178	12.344	12.344	(1.007)	3015832	50.0000	53.1163
	64 Carbazole	167	12.531	12.531	(1.022)	2248183	50.0000	50.0521
	65 Di-n-butylphthalate	149	12.924	12.924	(1.054)	3394739	50.0000	53.3201
	66 Fluoranthene	202	13.783	13.783	(1.124)	3824151	50.0000	54.2788
	67 Benzidine	184	13.907	13.907	(0.872)	416702	50.0000	58.8634
	68 Pyrene	202	14.083	14.083	(0.883)	3767208	50.0000	53.8054
$	69 Terphenyl-d14	244	14.218	14.218	(0.891)	3114422	50.0000	53.0768
	70 Butylbenzylphthalate	149	14.880	14.880	(0.933)	1486372	50.0000	52.5370
	71 3,3'-Dichlorobenzidine	252	15.853	15.853	(0.994)	1357912	50.0000	51.6599
	72 Benzo(a)anthracene	228	15.915	15.915	(0.997)	3631952	50.0000	50.7318
*	73 Chrysene-d12	240	15.957	15.957	(1.000)	2241994	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.822	15.822	(0.992)	2181798	50.0000	52.9788

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Report Date: 07-Oct-2004 09:43

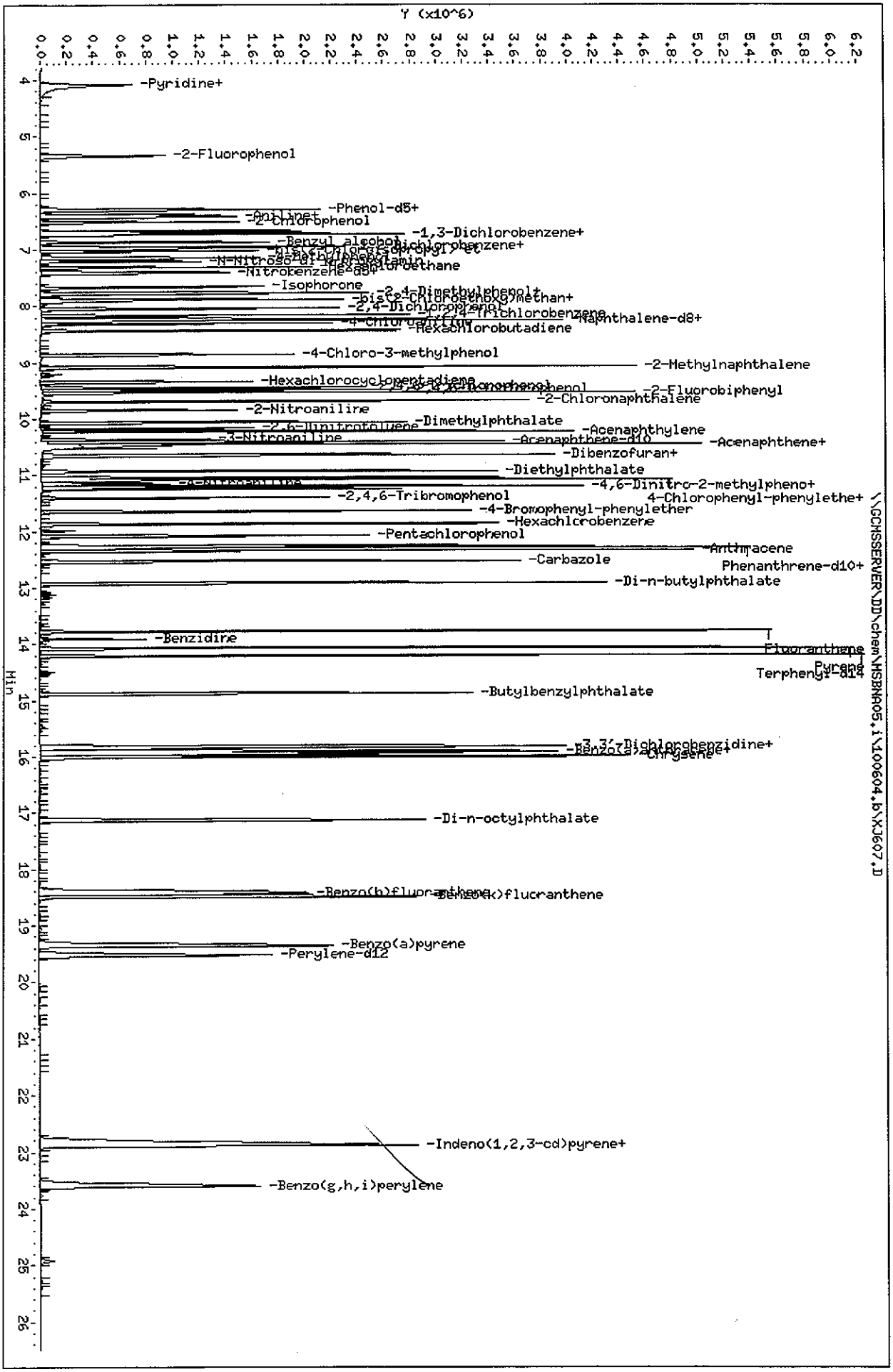
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.008	16.008	(1.003)	3407327	50.0000	52.6059
76 Di-n-octylphthalate	149	17.137	17.137	(0.877)	3598674	50.0000	51.0319
77 Benzo(b)fluoranthene	252	18.430	18.430	(0.943)	4095675	50.0000	44.1488
78 Benzo(k)fluoranthene	252	18.503	18.503	(0.947)	3390155	50.0000	53.3150(A)
79 Benzo(a)pyrene	252	19.372	19.372	(0.992)	3282668	50.0000	51.0260
* 80 Perylene-d12	264	19.538	19.538	(1.000)	1994248	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.860	22.860	(1.170)	3572111	50.0000	52.0059
82 Dibenz(a,h)anthracene	278	22.891	22.891	(1.172)	2911292	50.0000	52.0117
83 Benzo(g,h,i)perylene	276	23.605	23.605	(1.208)	2756682	50.0000	51.7941

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Date : 06-OCT-2004 14:11
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04MS1859
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 14:48 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1860
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 14:48 Cal File: XJ608.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.074	4.075	(0.607)	1139709	80.0000	82.8201
2 N-Nitrosodimethylamine	42	4.095	4.085	(0.610)	431027	80.0000	81.9222
$ 3 2-Fluorophenol	112	5.348	5.337	(0.797)	1179241	80.0000	80.8522
$ 4 Phenol-d5	99	6.300	6.289	(0.938)	1446132	80.0000	82.6361
5 Phenol	94	6.320	6.310	(0.941)	1453144	80.0000	79.2611
6 Aniline	66	6.403	6.393	(0.954)	531490	80.0000	80.3926
7 bis(2-Chloroethyl)ether	63	6.434	6.424	(0.958)	806694	80.0000	82.6523
8 2-Chlorophenol	128	6.517	6.517	(0.971)	1302256	80.0000	81.0753
9 1,3-Dichlorobenzene	146	6.683	6.683	(0.995)	1640799	80.0000	82.7131
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	530609	40.0000	
11 1,4-Dichlorobenzene	146	6.734	6.735	(1.003)	1598122	80.0000	81.5105
12 Benzyl alcohol	108	6.879	6.869	(1.025)	758647	80.0000	82.9699
13 1,2-Dichlorobenzene	146	6.962	6.952	(1.037)	1533720	80.0000	82.8695
14 2-Methylphenol	107	6.983	6.983	(1.040)	881563	80.0000	81.1667
15 bis(2-Chloroisopropyl) ether	45	7.035	7.024	(1.048)	1591840	80.0000	81.9798
16 4-Methylphenol	107	7.159	7.149	(1.066)	1365718	80.0000	80.7954
17 N-Nitroso-di-n-propylamine	70	7.221	7.211	(1.076)	590180	80.0000	79.5392
18 Hexachloroethane	117	7.314	7.314	(1.089)	558246	80.0000	83.5790
$ 19 Nitrobenzene-d5	82	7.397	7.387	(0.898)	1111522	80.0000	81.2712
20 Nitrobenzene	77	7.418	7.418	(0.901)	1076328	80.0000	81.6567

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.687	7.666	(0.933)	1976135	80.0000	80.6333
	22 2,4-Dimethylphenol	122	7.780	7.770	(0.945)	1017088	80.0000	80.8990
	23 2-Nitrophenol	139	7.790	7.780	(0.946)	749909	80.0000	82.7335
	24 bis(2-Chloroethoxy)methane	93	7.904	7.894	(0.960)	1410942	80.0000	82.4377
	25 Benzoic acid	122	7.966	7.914	(0.967)	622645	80.0000	77.0811
	26 2,4-Dichlorophenol	162	8.059	8.049	(0.979)	1226683	80.0000	81.8108
	27 1,2,4-Trichlorobenzene	180	8.173	8.163	(0.992)	1524548	80.0000	82.9760
*	28 Naphthalene-d8	136	8.235	8.225	(1.000)	1871698	40.0000	
	29 Naphthalene	128	8.266	8.256	(1.004)	3753480	80.0000	84.9885
	30 4-Chloroaniline	127	8.328	8.318	(1.011)	1523783	80.0000	83.1141
	31 Hexachlorobutadiene	225	8.442	8.442	(1.025)	1009682	80.0000	83.7959
	32 4-Chloro-3-methylphenol	107	8.867	8.856	(1.077)	970200	80.0000	81.7876
	33 2-Methylnaphthalene	142	9.094	9.084	(1.104)	2914030	80.0000	85.6683
	34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.898)	873284	80.0000	89.5325
	35 2,4,6-Trichlorophenol	196	9.457	9.446	(0.908)	1029006	80.0000	82.7088
	36 2,4,5-Trichlorophenol	196	9.508	9.498	(0.913)	1038447	80.0000	84.3960
$	37 2-Fluorobiphenyl	172	9.550	9.539	(0.917)	3135787	80.0000	85.7630
	38 2-Chloronaphthalene	162	9.705	9.695	(0.931)	2624439	80.0000	84.3250
	39 2-Nitroaniline	65	9.860	9.850	(0.946)	526485	80.0000	82.2834
	40 Dimethylphthalate	163	10.078	10.067	(0.967)	3192741	80.0000	84.7514
	41 2,6-Dinitrotoluene	165	10.202	10.181	(0.979)	787023	80.0000	86.4512
	42 Acenaphthylene	152	10.233	10.233	(0.982)	4170111	80.0000	85.3089
	43 3-Nitroaniline	138	10.388	10.367	(0.997)	728890	80.0000	84.3551
*	44 Acenaphthene-d10	164	10.419	10.419	(1.000)	1195862	40.0000	
	45 Acenaphthene	154	10.471	10.461	(1.005)	2610600	80.0000	86.8502
	46 2,4-Dinitrophenol	184	10.502	10.492	(1.008)	477714	80.0000	79.2074
	47 4-Nitrophenol	109	10.543	10.533	(1.012)	252088	80.0000	86.5982
	48 Dibenzofuran	168	10.657	10.647	(1.023)	3909972	80.0000	84.1866
	49 2,4-Dinitrotoluene	165	10.688	10.678	(1.026)	972315	80.0000	83.1006
	50 Diethylphthalate	149	10.947	10.937	(1.051)	2943523	80.0000	84.1583
	51 4-Chlorophenyl-phenylether	204	11.051	11.040	(1.061)	1769482	80.0000	85.8408
	52 Fluorene	166	11.092	11.082	(1.065)	3204461	80.0000	84.9022
	53 4-Nitroaniline	138	11.175	11.154	(1.073)	646024	80.0000	85.2599
	54 4,6-Dinitro-2-methylphenol	198	11.216	11.195	(0.915)	676426	80.0000	88.8761
	55 N-Nitrosodiphenylamine	169	11.227	11.206	(0.916)	2256984	80.0000	85.1681
	56 Azobenzene	77	11.258	11.247	(0.918)	2341995	80.0000	86.4697
$	57 2,4,6-Tribromophenol	330	11.423	11.413	(1.096)	790916	80.0000	88.2363
	58 4-Bromophenyl-phenylether	248	11.661	11.651	(0.951)	1271414	80.0000	81.9150
	59 Hexachlorobenzene	284	11.879	11.879	(0.969)	1432419	80.0000	83.0502
	60 Pentachlorophenol	266	12.096	12.086	(0.986)	904959	80.0000	81.7612
*	61 Phenanthrene-d10	188	12.262	12.262	(1.000)	2418911	40.0000	
	62 Phenanthrene	178	12.303	12.293	(1.003)	4760451	80.0000	82.4967
	63 Anthracene	178	12.355	12.344	(1.008)	4877280	80.0000	81.6768
	64 Carbazole	167	12.541	12.531	(1.023)	3920152	80.0000	82.9840
	65 Di-n-butylphthalate	149	12.934	12.924	(1.055)	5190136	80.0000	77.5111
	66 Fluoranthene	202	13.793	13.783	(1.125)	6018679	80.0000	81.2263
	67 Benzidine	184	13.918	13.907	(0.872)	555662	80.0000	76.5199
	68 Pyrene	202	14.094	14.083	(0.883)	6004473	80.0000	83.6037
$	69 Terphenyl-d14	244	14.228	14.218	(0.891)	5020916	80.0000	83.4169
	70 Butylbenzylphthalate	149	14.890	14.880	(0.933)	2415092	80.0000	83.2177
	71 3,3'-Dichlorobenzidine	252	15.874	15.853	(0.994)	2273223	80.0000	84.3079
	72 Benzo(a)anthracene	228	15.926	15.915	(0.997)	6036115	80.0000	82.1942
*	73 Chrysene-d12	240	15.967	15.957	(1.000)	2299803	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.832	15.822	(0.992)	3547464	80.0000	83.9749

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Report Date: 07-Oct-2004 09:43

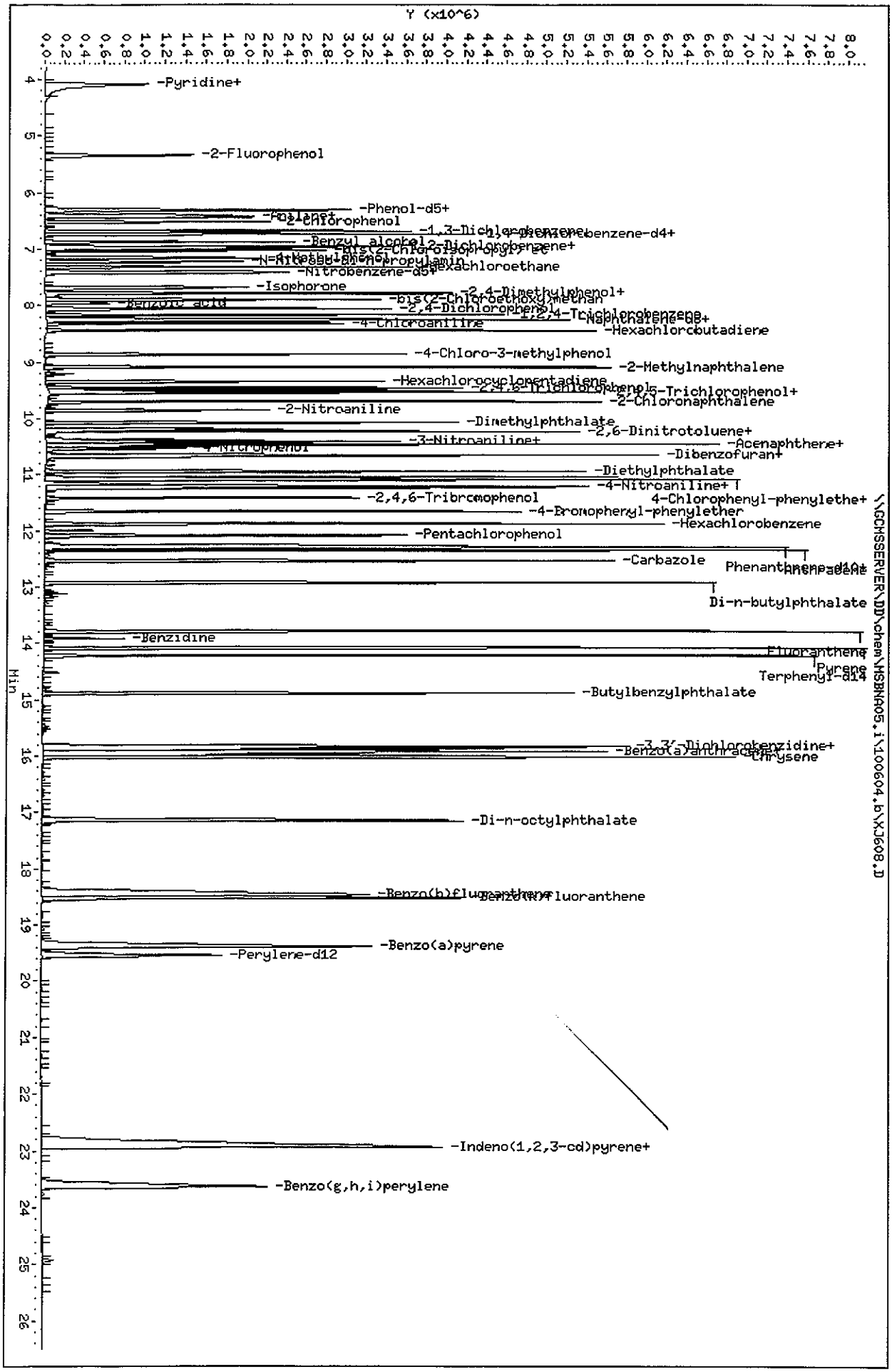
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.029	16.008	(1.004)	5610442	80.0000	84.4426
76 Di-n-octylphthalate	149	17.147	17.137	(0.877)	5886910	80.0000	83.6229
77 Benzo(b)fluoranthene	252	18.472	18.430	(0.945)	7338761	80.0000	74.1564
78 Benzo(k)fluoranthene	252	18.534	18.503	(0.948)	5128747	80.0000	80.7941(A)
79 Benzo(a)pyrene	252	19.393	19.372	(0.992)	5364246	80.0000	83.5242
* 80 Perylene-d12	264	19.548	19.538	(1.000)	1990859	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.912	22.860	(1.172)	5545076	80.0000	80.8675
82 Dibenz(a,h)anthracene	278	22.933	22.891	(1.173)	4584315	80.0000	82.0406
83 Benzo(g,h,i)perylene	276	23.636	23.605	(1.209)	4188962	80.0000	78.8386

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Date : 06-OCT-2004 14:48
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1860
Volume Injected (ul): 1.0
Column phase: Mti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 15:25 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1861
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 15:25 Cal File: XJ609.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.074	4.075	(0.606)	1757580	120.000	124.6089
2 N-Nitrosodimethylamine	42	4.095	4.085	(0.609)	655544	120.000	121.5602
$ 3 2-Fluorophenol	112	5.348	5.337	(0.795)	1845619	120.000	123.4592
$ 4 Phenol-d5	99	6.320	6.289	(0.940)	2225988	120.000	124.1016
5 Phenol	94	6.331	6.310	(0.942)	2221633	120.000	118.2269
6 Aniline	66	6.414	6.393	(0.954)	824083	120.000	121.6142
7 bis(2-Chloroethyl)ether	63	6.434	6.424	(0.957)	1239943	120.000	123.9482
8 2-Chlorophenol	128	6.527	6.517	(0.971)	2035225	120.000	123.6224
9 1,3-Dichlorobenzene	146	6.683	6.683	(0.994)	2493045	120.000	122.6145
* 10 1,4-Dichlorobenzene-d4	152	6.724	6.714	(1.000)	543854	40.0000	
11 1,4-Dichlorobenzene	146	6.745	6.735	(1.003)	2404187	120.000	119.6367
12 Benzyl alcohol	108	6.890	6.869	(1.025)	1189953	120.000	126.9706
13 1,2-Dichlorobenzene	146	6.962	6.952	(1.035)	2325163	120.000	122.5729
14 2-Methylphenol	107	6.993	6.983	(1.040)	1391506	120.000	124.9977
15 bis(2-Chloroisopropyl) ether	45	7.035	7.024	(1.046)	2420328	120.000	121.6114
16 4-Methylphenol	107	7.149	7.149	(1.063)	2151280	120.000	124.1696
17 N-Nitroso-di-n-propylamine	70	7.242	7.211	(1.077)	947307	120.000	124.5603
18 Hexachloroethane	117	7.314	7.314	(1.088)	834960	120.000	121.9634
$ 19 Nitrobenzene-d5	82	7.407	7.387	(0.899)	1741356	120.000	121.4691
20 Nitrobenzene	77	7.428	7.418	(0.902)	1665492	120.000	120.5450

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.697	7.666	(0.935)	3078811	120.000	119.8506
	22 2,4-Dimethylphenol	122	7.801	7.770	(0.947)	1535191	120.000	116.4948
	23 2-Nitrophenol	139	7.801	7.780	(0.947)	1140378	120.000	120.0276
	24 bis(2-Chloroethoxy)methane	93	7.914	7.894	(0.961)	2156681	120.000	120.2159
	25 Benzoic acid	122	8.008	7.914	(0.972)	1049450	120.000	118.7788
	26 2,4-Dichlorophenol	162	8.070	8.049	(0.980)	1907097	120.000	121.3418
	27 1,2,4-Trichlorobenzene	180	8.173	8.163	(0.992)	2333731	120.000	121.1774
*	28 Naphthalene-d8	136	8.235	8.225	(1.000)	1961897	40.0000	
	29 Naphthalene	128	8.266	8.256	(1.004)	5572247	120.000	120.3694
	30 4-Chloroaniline	127	8.328	8.318	(1.011)	2352619	120.000	122.4229
	31 Hexachlorobutadiene	225	8.442	8.442	(1.025)	1500622	120.000	118.8144
	32 4-Chloro-3-methylphenol	107	8.877	8.856	(1.078)	1513146	120.000	121.6933
	33 2-Methylnaphthalene	142	9.094	9.084	(1.104)	4295063	120.000	120.4634
	34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.897)	1381857	120.000	134.0713
	35 2,4,6-Trichlorophenol	196	9.467	9.446	(0.908)	1623567	120.000	123.4957
	36 2,4,5-Trichlorophenol	196	9.519	9.498	(0.913)	1628140	120.000	125.2209
$	37 2-Fluorobiphenyl	172	9.550	9.539	(0.916)	4623598	120.000	119.6688
	38 2-Chloronaphthalene	162	9.715	9.695	(0.932)	3995284	120.000	121.4829
	39 2-Nitroaniline	65	9.871	9.850	(0.946)	835624	120.000	123.5904
	40 Dimethylphthalate	163	10.088	10.067	(0.967)	4975391	120.000	124.9851
	41 2,6-Dinitrotoluene	165	10.212	10.181	(0.979)	1214181	120.000	126.2162
	42 Acenaphthylene	152	10.243	10.233	(0.982)	6274097	120.000	121.4634
	43 3-Nitroaniline	138	10.398	10.367	(0.997)	1202441	120.000	131.6925
*	44 Acenaphthene-d10	164	10.430	10.419	(1.000)	1263669	40.0000	
	45 Acenaphthene	154	10.471	10.461	(1.004)	3953340	120.000	124.4637
	46 2,4-Dinitrophenol	184	10.523	10.492	(1.009)	830055	120.000	123.2790
	47 4-Nitrophenol	109	10.564	10.533	(1.013)	393056	120.000	127.7788
	48 Dibenzofuran	168	10.668	10.647	(1.023)	5879614	120.000	119.8026
	49 2,4-Dinitrotoluene	165	10.709	10.678	(1.027)	1595990	120.000	129.0847
	50 Diethylphthalate	149	10.957	10.937	(1.051)	4620260	120.000	125.0097
	51 4-Chlorophenyl-phenylether	204	11.061	11.040	(1.061)	2623228	120.000	120.4292
	52 Fluorene	166	11.102	11.082	(1.065)	4840617	120.000	121.3703
	53 4-Nitroaniline	138	11.216	11.154	(1.075)	1058244	120.000	132.1690
	54 4,6-Dinitro-2-methylphenol	198	11.237	11.195	(0.916)	982973	120.000	125.9854
	55 N-Nitrosodiphenylamine	169	11.237	11.206	(0.916)	3288825	120.000	121.0607
	56 Azobenzene	77	11.268	11.247	(0.918)	3420117	120.000	123.1780
$	57 2,4,6-Tribromophenol	330	11.434	11.413	(1.096)	1258974	120.000	132.9173
	58 4-Bromophenyl-phenylether	248	11.661	11.651	(0.950)	2020622	120.000	126.9918
	59 Hexachlorobenzene	284	11.889	11.879	(0.969)	2065313	120.000	116.8074
	60 Pentachlorophenol	266	12.096	12.086	(0.986)	1434529	120.000	126.4275
*	61 Phenanthrene-d10	188	12.272	12.262	(1.000)	2479739	40.0000	
	62 Phenanthrene	178	12.313	12.293	(1.003)	6995914	120.000	118.2624
	63 Anthracene	178	12.365	12.344	(1.008)	7310287	120.000	119.4180
	64 Carbazole	167	12.551	12.531	(1.023)	6121953	120.000	126.4140
	65 Di-n-butylphthalate	149	12.945	12.924	(1.055)	7543456	120.000	109.8929
	66 Fluoranthene	202	13.804	13.783	(1.125)	8597002	120.000	113.1766
	67 Benzidine	184	13.918	13.907	(0.871)	668376	120.000	89.3497
	68 Pyrene	202	14.104	14.083	(0.883)	8693369	120.000	117.5025
$	69 Terphenyl-d14	244	14.228	14.218	(0.891)	7369444	120.000	118.8542
	70 Butylbenzylphthalate	149	14.901	14.880	(0.933)	3561674	120.000	119.1365
	71 3,3'-Dichlorobenzidine	252	15.894	15.853	(0.995)	3442083	120.000	123.9242
	72 Benzo(a)anthracene	228	15.946	15.915	(0.998)	9391623	120.000	124.1461
*	73 Chrysene-d12	240	15.977	15.957	(1.000)	2369093	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.843	15.822	(0.992)	5112703	120.000	117.4873

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Report Date: 07-Oct-2004 09:43

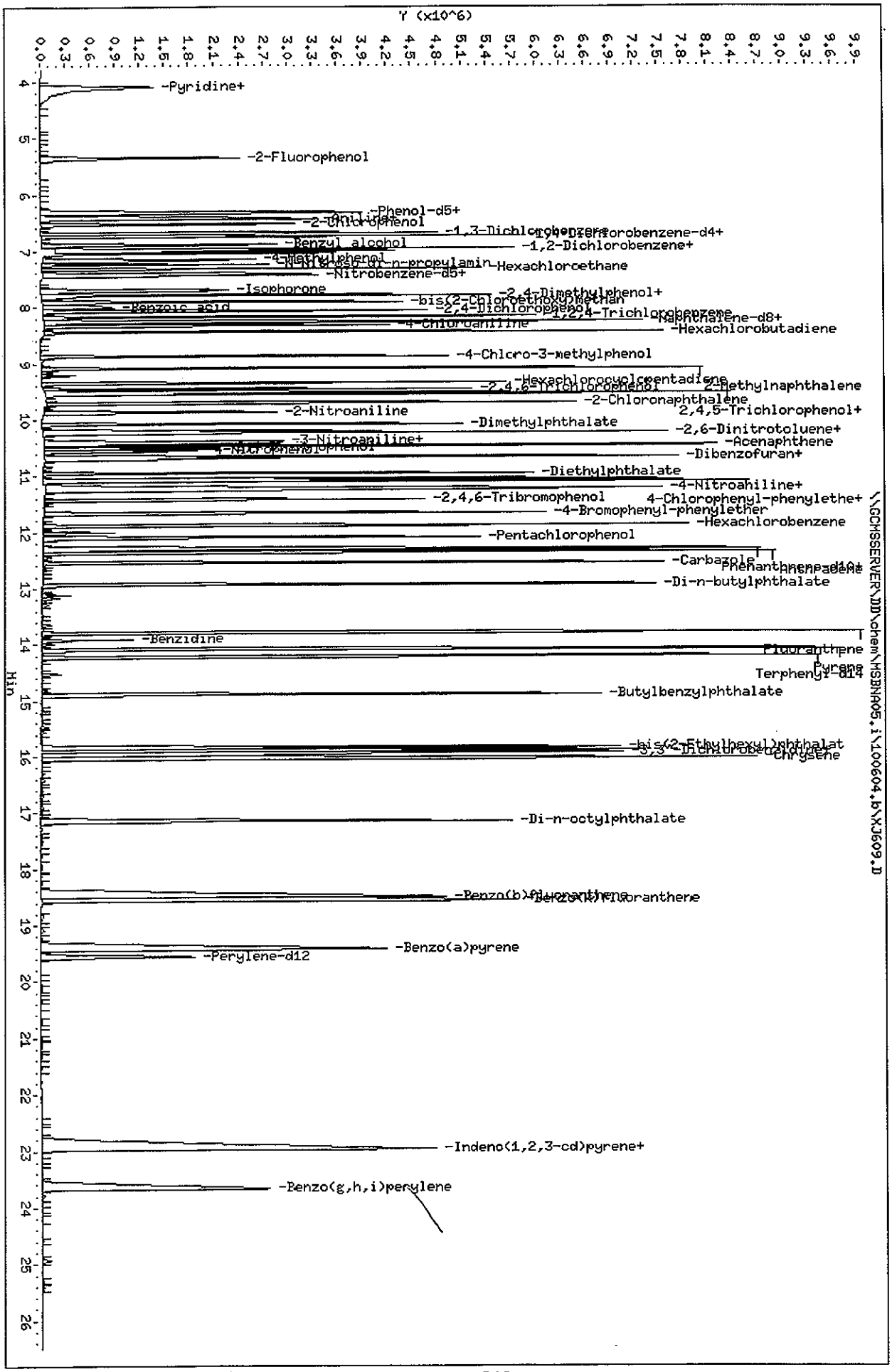
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.050	16.008	(1.005)	8546362	120.000	124.8690
76 Di-n-octylphthalate	149	17.157	17.137	(0.877)	8940610	120.000	124.0635
77 Benzo(b)fluoranthene	252	18.503	18.430	(0.946)	12802116	120.000	121.8658
78 Benzo(k)fluoranthene	252	18.565	18.503	(0.949)	6587972	120.000	101.3816(AH)
79 Benzo(a)pyrene	252	19.434	19.372	(0.993)	8266969	120.000	125.7444
* 80 Perylene-d12	264	19.569	19.538	(1.000)	2037989	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.964	22.860	(1.173)	8016908	120.000	114.2122
82 Dibenz(a,h)anthracene	278	22.974	22.891	(1.174)	6703440	120.000	117.1901
83 Benzo(g,h,i)perylene	276	23.678	23.605	(1.210)	5833043	120.000	107.2424

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Date : 06-OCT-2004 15:25
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1861
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Report Date: 07-Oct-2004 09:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Lab Smp Id:
Inj Date : 06-OCT-2004 16:01
Operator : DL
Smp Info : ICAL,04WS1862
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target
Cal Date : 06-OCT-2004 16:01
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSBNA03

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 21-SEP-2004 20:22
Inst ID: MSBNA05.i

Quant Type: ISTD
Cal File: XJ610.D
Calibration Sample, Level: 7

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	4.085	4.075	(0.608)	2408125	160.000	164.0531
	2 N-Nitrosodimethylamine	42	4.105	4.085	(0.611)	880911	160.000	156.9614
$	3 2-Fluorophenol	112	5.347	5.337	(0.795)	2537495	160.000	163.1015
$	4 Phenol-d5	99	6.331	6.289	(0.942)	2987406	160.000	160.0368
	5 Phenol	94	6.351	6.310	(0.945)	3018875	160.000	154.3691
	6 Aniline	66	6.424	6.393	(0.955)	1112414	160.000	157.7434
	7 bis(2-Chloroethyl)ether	63	6.445	6.424	(0.958)	1630696	160.000	156.6328
	8 2-Chlorophenol	128	6.538	6.517	(0.972)	2767508	160.000	161.5269
	9 1,3-Dichlorobenzene	146	6.693	6.683	(0.995)	3335790	160.000	157.6455
*	10 1,4-Dichlorobenzene-d4	152	6.724	6.714	(1.000)	565993	40.0000	
	11 1,4-Dichlorobenzene	146	6.745	6.735	(1.003)	3219087	160.000	153.9218
	12 Benzyl alcohol	108	6.910	6.869	(1.028)	1634197	160.000	167.5518
	13 1,2-Dichlorobenzene	146	6.962	6.952	(1.035)	3055476	160.000	154.7716
	14 2-Methylphenol	107	7.003	6.983	(1.042)	1767724	160.000	152.5818
	15 bis(2-Chloroisopropyl) ether	45	7.045	7.024	(1.048)	3128322	160.000	151.0368
	16 4-Methylphenol	107	7.159	7.149	(1.065)	2946318	160.000	163.4064
	17 N-Nitroso-di-n-propylamine	70	7.252	7.211	(1.078)	1252063	160.000	158.1927
	18 Hexachloroethane	117	7.314	7.314	(1.088)	1100141	160.000	154.4129
$	19 Nitrobenzene-d5	82	7.417	7.387	(0.900)	2335973	160.000	157.2193
	20 Nitrobenzene	77	7.438	7.418	(0.902)	2204844	160.000	153.9729

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Report Date: 07-Oct-2004 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	7.738	7.666	(0.938)	4260029	160.000	160.0035(M)
22 2,4-Dimethylphenol	122	7.811	7.770	(0.947)	2015635	160.000	147.5760
23 2-Nitrophenol	139	7.800	7.780	(0.946)	1484314	160.000	150.7363
24 bis(2-Chloroethoxy)methane	93	7.925	7.894	(0.961)	2846636	160.000	153.0974
25 Benzoic acid	122	8.049	7.914	(0.976)	1516627	160.000	162.2701
26 2,4-Dichlorophenol	162	8.080	8.049	(0.980)	2574829	160.000	158.0687
27 1,2,4-Trichlorobenzene	180	8.183	8.163	(0.992)	3033761	160.000	151.9889
* 28 Naphthalene-d8	136	8.245	8.225	(1.000)	2033371	40.0000	
29 Naphthalene	128	8.277	8.256	(1.004)	6843978	160.000	142.6442
30 4-Chloroaniline	127	8.339	8.318	(1.011)	3165381	160.000	158.9267
31 Hexachlorobutadiene	225	8.452	8.442	(1.025)	1917988	160.000	146.5222
32 4-Chloro-3-methylphenol	107	8.887	8.856	(1.078)	2069844	160.000	160.6138
33 2-Methylnaphthalene	142	9.105	9.084	(1.104)	5363126	160.000	145.1320
34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.897)	1867258	160.000	170.8726
35 2,4,6-Trichlorophenol	196	9.467	9.446	(0.908)	2248325	160.000	161.3006
36 2,4,5-Trichlorophenol	196	9.529	9.498	(0.914)	2197982	160.000	159.4427
$ 37 2-Fluorobiphenyl	172	9.560	9.539	(0.917)	5667150	160.000	138.3442
38 2-Chloronaphthalene	162	9.715	9.695	(0.932)	5133834	160.000	147.2329
39 2-Nitroaniline	65	9.881	9.850	(0.947)	1126453	160.000	157.1384
40 Dimethylphthalate	163	10.098	10.067	(0.968)	6665659	160.000	157.9318
41 2,6-Dinitrotoluene	165	10.222	10.181	(0.980)	1608331	160.000	157.6894
42 Acenaphthylene	152	10.253	10.233	(0.983)	7828912	160.000	142.9523
43 3-Nitroaniline	138	10.419	10.367	(0.999)	1593800	160.000	164.6366
* 44 Acenaphthene-d10	164	10.429	10.419	(1.000)	1339794	40.0000	
45 Acenaphthene	154	10.481	10.461	(1.005)	5074812	160.000	150.6932
46 2,4-Dinitrophenol	184	10.533	10.492	(1.010)	1167511	160.000	158.4541
47 4-Nitrophenol	109	10.585	10.533	(1.015)	536370	160.000	164.4615
48 Dibenzofuran	168	10.678	10.647	(1.024)	7617747	160.000	146.3994
49 2,4-Dinitrotoluene	165	10.719	10.678	(1.028)	2110138	160.000	160.9722
50 Diethylphthalate	149	10.978	10.937	(1.053)	5681973	160.000	145.0013
51 4-Chlorophenyl-phenylether	204	11.071	11.040	(1.062)	3338617	160.000	144.5631
52 Fluorene	166	11.112	11.082	(1.065)	6356975	160.000	150.3341
53 4-Nitroaniline	138	11.237	11.154	(1.077)	1364514	160.000	160.7375(H)
54 4,6-Dinitro-2-methylphenol	198	11.257	11.195	(0.917)	1212349	160.000	150.0150
55 N-Nitrosodiphenylamine	169	11.237	11.206	(0.915)	4134362	160.000	146.9261
56 Azobenzene	77	11.278	11.247	(0.918)	3898316	160.000	135.5493
$ 57 2,4,6-Tribromophenol	330	11.444	11.413	(1.097)	1685797	160.000	167.8670
58 4-Bromophenyl-phenylether	248	11.671	11.651	(0.950)	2597948	160.000	157.6338
59 Hexachlorobenzene	284	11.899	11.879	(0.969)	2742166	160.000	149.7291
60 Pentachlorophenol	266	12.106	12.086	(0.986)	1998831	160.000	170.0734
* 61 Phenanthrene-d10	188	12.282	12.262	(1.000)	2568490	40.0000	
62 Phenanthrene	178	12.323	12.293	(1.003)	9145596	160.000	149.2597
63 Anthracene	178	12.375	12.344	(1.008)	9238163	160.000	145.6965
64 Carbazole	167	12.562	12.531	(1.023)	8173668	160.000	162.9485
65 Di-n-butylphthalate	149	12.944	12.924	(1.054)	9601780	160.000	135.0452
66 Fluoranthene	202	13.814	13.783	(1.125)	10749054	160.000	136.6180
67 Benzidine	184	13.928	13.907	(0.871)	885797	160.000	114.3629
68 Pyrene	202	14.114	14.083	(0.883)	11028442	160.000	143.9632
$ 69 Terphenyl-d14	244	14.238	14.218	(0.891)	9297979	160.000	144.8260
70 Butylbenzylphthalate	149	14.911	14.880	(0.933)	4670009	160.000	150.8644
71 3,3'-Dichlorobenzidine	252	15.915	15.853	(0.995)	4509496	160.000	156.7982
72 Benzo(a)anthracene	228	15.956	15.915	(0.998)	12335206	160.000	157.4771
* 73 Chrysene-d12	240	15.987	15.957	(1.000)	2453035	40.0000	
74 bis(2-Ethylhexyl)phthalate	149	15.863	15.822	(0.992)	6488602	160.000	144.0024

10/4/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Report Date: 07-Oct-2004 09:44

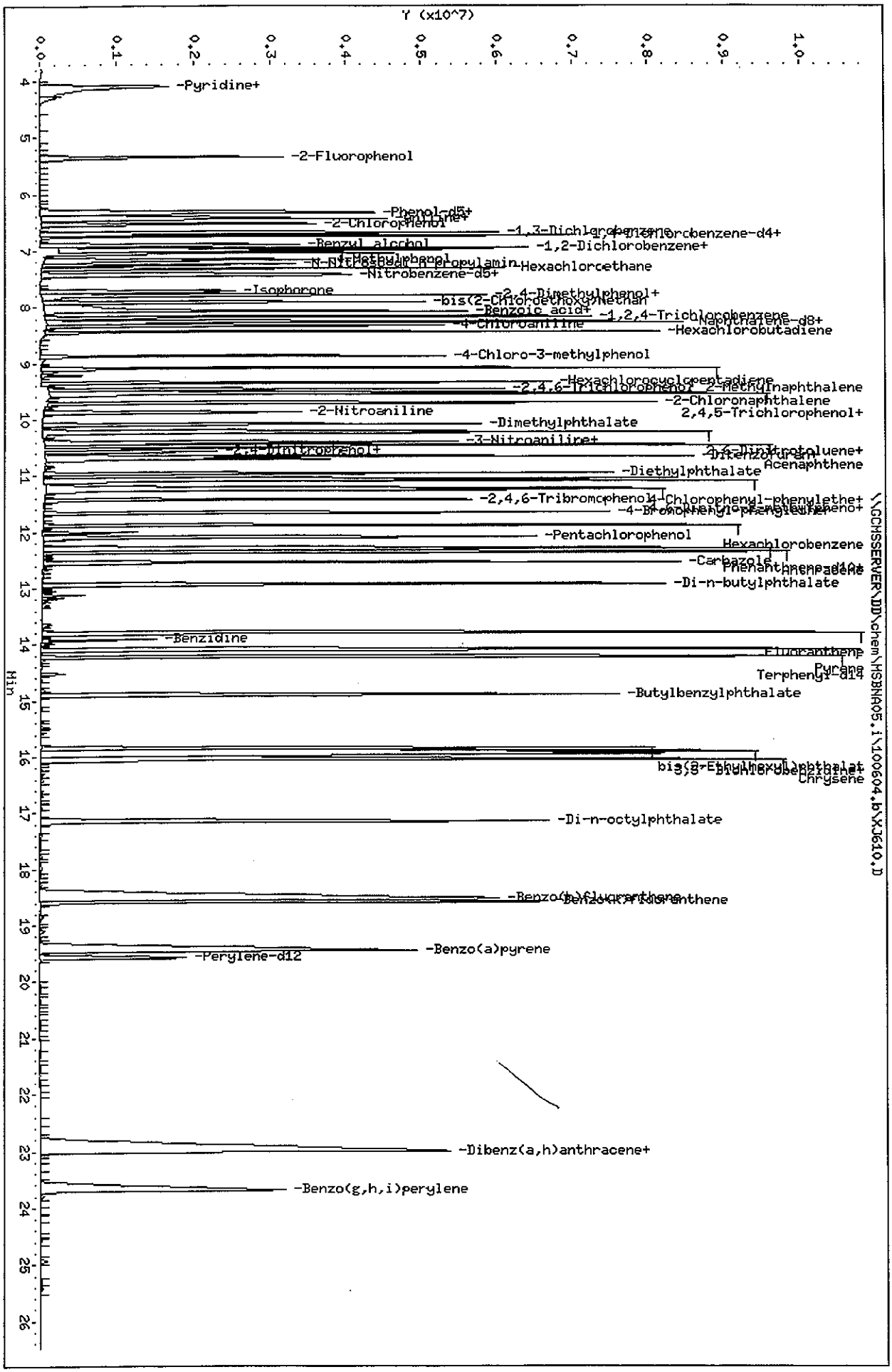
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.070	16.008	(1.005)	11233849	160.000	158.5186
76 Di-n-octylphthalate	149	17.167	17.137	(0.877)	11718494	160.000	161.7589
77 Benzo(b)fluoranthene	252	18.544	18.430	(0.947)	17398130	160.000	162.4974
78 Benzo(k)fluoranthene	252	18.606	18.503	(0.950)	8170021	160.000	125.0691(AMH)
79 Benzo(a)pyrene	252	19.455	19.372	(0.994)	10942720	160.000	165.5721
* 80 Perylene-d12	264	19.579	19.538	(1.000)	2048719	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	23.015	22.860	(1.176)	10106430	160.000	143.2263(M)
82 Dibenz(a,h)anthracene	278	23.005	22.891	(1.175)	8568850	160.000	149.0167
83 Benzo(g,h,i)perylene	276	23.698	23.605	(1.210)	7325602	160.000	133.9782

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Date : 06-OCT-2004 16:01
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1862
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544403805011
Calnum : 544403805004
Standards: 04WS1724

Run Name : 80ug/mL
Filename : xj611
Caldate : 06-OCT-2004

Injected : 06-OCT-2004 16:38
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	81.47670	ng	2	30	
Pyridine	80.00000	91.90360	ng	15	30	
Phenol	80.00000	81.85390	ng	2	20	
Aniline	80.00000	75.85030	ng	-5	30	
bis(2-Chloroethyl)ether	80.00000	84.23150	ng	5	30	
2-Chlorophenol	80.00000	82.67460	ng	3	30	
1,3-Dichlorobenzene	80.00000	85.60990	ng	7	30	
1,4-Dichlorobenzene	80.00000	83.15720	ng	4	20	
Benzyl alcohol	80.00000	89.20500	ng	12	30	
1,2-Dichlorobenzene	80.00000	83.45320	ng	4	30	
2-Methylphenol	80.00000	78.75030	ng	-2	30	
bis(2-Chloroisopropyl) ether	80.00000	78.87820	ng	-1	30	
4-Methylphenol	80.00000	84.82390	ng	6	30	
N-Nitroso-di-n-propylamine	80.00000	85.05530	ng	6	30	
Hexachloroethane	80.00000	87.83000	ng	10	30	
Nitrobenzene	80.00000	82.70680	ng	3	30	
Isophorone	80.00000	86.48410	ng	8	30	
2-Nitrophenol	80.00000	87.18470	ng	9	20	
2,4-Dimethylphenol	80.00000	85.63120	ng	7	30	
bis(2-Chloroethoxy)methane	80.00000	81.61220	ng	2	30	
Benzoic acid	80.00000	114.3562	ng	**43**	40	v+ ***
2,4-Dichlorophenol	80.00000	85.44030	ng	7	20	
1,2,4-Trichlorobenzene	80.00000	85.81750	ng	7	30	
Naphthalene	80.00000	88.09640	ng	10	30	
4-Chloroaniline	80.00000	83.18590	ng	4	30	
Hexachlorobutadiene	80.00000	85.07310	ng	6	20	
4-Chloro-3-methylphenol	80.00000	88.36470	ng	10	20	
2-Methylnaphthalene	80.00000	88.67230	ng	11	30	
Hexachlorocyclopentadiene	80.00000	98.36890	ng	23	40	
2,4,6-Trichlorophenol	80.00000	87.79420	ng	10	20	
2,4,5-Trichlorophenol	80.00000	92.98090	ng	16	30	
2-Chloronaphthalene	80.00000	89.96980	ng	12	30	
2-Nitroaniline	80.00000	83.89350	ng	5	30	
Dimethylphthalate	80.00000	85.50770	ng	7	30	
2,6-Dinitrotoluene	80.00000	89.08130	ng	11	30	
Acenaphthylene	80.00000	89.23400	ng	12	30	
3-Nitroaniline	80.00000	84.05180	ng	5	30	
Acenaphthene	80.00000	89.87300	ng	12	20	
2,4-Dinitrophenol	80.00000	86.99500	ng	9	40	
4-Nitrophenol	80.00000	102.5078	ng	28	40	
Dibenzofuran	80.00000	87.54760	ng	9	30	
2,4-Dinitrotoluene	80.00000	86.86380	ng	9	30	
Diethylphthalate	80.00000	87.25410	ng	9	30	
Fluorene	80.00000	88.70720	ng	11	30	
4-Chlorophenyl-phenylether	80.00000	88.59520	ng	11	40	
4-Nitroaniline	80.00000	64.09620	ng	-20	30	
4,6-Dinitro-2-methylphenol	80.00000	103.4834	ng	**29**	30	!v+

!=calc err +=high bias -=low bias v=ICV
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544403805011
Calnum : 544403805004
Standards: 04WS1724

Run Name : 80ug/mL
Filename : xj611
Caldate : 06-OCT-2004

Injected : 06-OCT-2004 16:38
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	92.16640	ng	15	20	
Azobenzene	80.00000	88.82440	ng	11	30	
4-Bromophenyl-phenylether	80.00000	86.78880	ng	8	30	
Hexachlorobenzene	80.00000	86.51340	ng	8	30	
Pentachlorophenol	80.00000	93.82350	ng	17	20	
Phenanthrene	80.00000	89.14370	ng	11	30	
Anthracene	80.00000	85.38670	ng	7	30	
Carbazole	80.00000	60.66910	ng	**-24**	30	!v-
Di-n-butylphthalate	80.00000	80.18170	ng	0	30	
Fluoranthene	80.00000	86.40550	ng	8	20	
Benzidine	80.00000	22.86190	ng	**-71**	40	! v- ***
Pyrene	80.00000	85.83520	ng	7	30	
Butylbenzylphthalate	80.00000	84.24810	ng	5	30	
3,3'-Dichlorobenzidine	80.00000	76.97580	ng	-4	40	
Benzo(a)anthracene	80.00000	85.76500	ng	7	30	
bis(2-Ethylhexyl)phthalate	80.00000	84.73990	ng	6	30	
Chrysene	80.00000	87.51840	ng	9	30	
Di-n-octylphthalate	80.00000	86.41070	ng	8	20	
Benzo(b)fluoranthene	80.00000	104.6197	ng	**31**	30	v+ ***
Benzo(k)fluoranthene	80.00000	85.39360	ng	7	30	
Benzo(a)pyrene	80.00000	90.67020	ng	13	20	
Indeno(1,2,3-cd)pyrene	80.00000	84.63880	ng	6	30	
Dibenz(a,h)anthracene	80.00000	89.79860	ng	12	30	
Benzo(g,h,i)perylene	80.00000	81.36050	ng	2	30	
2-Fluorophenol	80.00000	81.81220	ng	2	30	
Phenol-d5	80.00000	82.69140	ng	3	30	
Nitrobenzene-d5	80.00000	83.11440	ng	4	30	
2-Fluorobiphenyl	80.00000	89.29170	ng	12	30	
2,4,6-Tribromophenol	80.00000	88.72180	ng	11	30	
Terphenyl-d14	80.00000	82.32300	ng	3	30	

ISTD (CCV=xj603)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	547714	507024	-7.43	6.71	6.71	0.00
Naphthalene-d8	1933707	1775995	-8.16	8.24	8.24	0.00
Acenaphthene-d10	1242974	1137801	-8.46	10.42	10.42	0.00
Phenanthrene-d10	2487751	2276336	-8.50	12.26	12.26	0.00
Chrysene-d12	2456985	2188660	-10.92	15.97	15.97	0.00
Perylene-d12	2184358	1871255	-14.33	19.55	19.55	0.00

!=calc err +=high bias -=low bias v=ICV
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA02
Seqnum : 514402284019
Calnum : 514396535001
Standards: 04WS1860

Run Name :
Filename : uj519
Caldate : 01-OCT-2004

IDF : 1.0
Injected : 05-OCT-2004 21:12
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5651	0.5004	80.00000	70.83830	ng	-11	30	0.0500	
Pyridine	1.2976	1.2820	80.00000	79.03390	ng	-1	30	0.0500	
Phenol	1.9858	1.8103	80.00000	72.92750	ng	-9	20	0.0500	
Aniline	0.0126	1.0942	80.00000	-106170	ng	-132812	30	0.0500	c-
bis(2-Chloroethyl)ether	1.0727	1.0095	80.00000	75.28480	ng	-6	30	0.0500	
2-Chlorophenol	1.4912	1.4980	80.00000	80.36110	ng	0	30	0.0500	
1,3-Dichlorobenzene	1.4918	1.5025	80.00000	80.57430	ng	1	30	0.0500	
1,4-Dichlorobenzene	1.5635	1.5356	80.00000	78.57510	ng	-2	20	0.0500	
Benzyl alcohol	0.9124	0.8540	80.00000	74.88230	ng	-6	30	0.0500	
1,2-Dichlorobenzene	1.5265	1.5096	80.00000	79.11610	ng	-1	30	0.0500	
2-Methylphenol	1.0794	1.0620	80.00000	78.71490	ng	-2	30	0.0500	
bis(2-Chloroisopropyl) ether	2.6309	2.3367	80.00000	71.05270	ng	-11	30	0.0500	
4-Methylphenol	1.6329	1.5775	80.00000	77.28810	ng	-3	30	0.0500	
N-Nitroso-di-n-propylamine	0.7918	0.7632	80.00000	77.11260	ng	-4	30	0.0500	
Hexachloroethane	0.6987	0.6682	80.00000	76.51010	ng	-4	30	0.0500	
Nitrobenzene	0.3330	0.3138	80.00000	75.38770	ng	-6	30	0.0500	
Isophorone	0.7037	0.6669	80.00000	75.80740	ng	-5	30	0.0500	
2-Nitrophenol	0.2441	0.2394	80.00000	78.48610	ng	-2	20	0.0500	
2,4-Dimethylphenol	0.2754	0.3131	80.00000	90.92400	ng	14	30	0.0500	
bis(2-Chloroethoxy)methane	0.5030	0.4607	80.00000	73.27440	ng	-8	30	0.0500	
Benzoic acid	0.0874	0.1073	80.00000	80.46130	ng	1	40	0.0500	
2,4-Dichlorophenol	0.3192	0.3056	80.00000	76.60630	ng	-4	20	0.0500	
1,2,4-Trichlorobenzene	0.3509	0.3333	80.00000	75.99340	ng	-5	30	0.0500	
Naphthalene	1.0457	1.0220	80.00000	78.18140	ng	-2	30	0.0500	
4-Chloroaniline	0.4755	0.4738	80.00000	79.71360	ng	0	30	0.0500	
Hexachlorobutadiene	0.2107	0.2096	80.00000	79.57180	ng	-1	20	0.0500	
4-Chloro-3-methylphenol	0.3238	0.3039	80.00000	75.07850	ng	-6	20	0.0500	
2-Methylnaphthalene	0.7372	0.7391	80.00000	80.20570	ng	0	30	0.0500	
Hexachlorocyclopentadiene	0.2225	0.2562	80.00000	81.40350	ng	2	40	0.0500	
2,4,6-Trichlorophenol	0.4345	0.4125	80.00000	75.95280	ng	-5	20	0.0500	
2,4,5-Trichlorophenol	0.4364	0.3842	80.00000	70.43780	ng	-12	30	0.0500	
2-Chloronaphthalene	1.1565	1.0758	80.00000	74.41420	ng	-7	30	0.0500	
2-Nitroaniline	0.3282	0.3081	80.00000	75.10140	ng	-6	30	0.0500	
Dimethylphthalate	1.3740	1.2769	80.00000	74.34750	ng	-7	30	0.0500	
2,6-Dinitrotoluene	0.3459	0.3205	80.00000	74.12000	ng	-7	30	0.0500	
Acenaphthylene	1.8804	1.7570	80.00000	74.74980	ng	-7	30	0.0500	
3-Nitroaniline	0.3820	0.3958	80.00000	82.89380	ng	4	30	0.0500	
Acenaphthene	1.1352	1.0552	80.00000	74.35930	ng	-7	20	0.0500	
2,4-Dinitrophenol	0.1613	0.1743	80.00000	73.00920	ng	-9	40	0.0500	
4-Nitrophenol	0.1105	0.1075	80.00000	72.33440	ng	-10	40	0.0500	
Dibenzofuran	1.6786	1.6619	80.00000	79.20180	ng	-1	30	0.0500	
2,4-Dinitrotoluene	0.4104	0.3874	80.00000	75.53030	ng	-6	30	0.0500	
Diethylphthalate	1.4419	1.4072	80.00000	78.07430	ng	-2	30	0.0500	
Fluorene	1.2864	1.2207	80.00000	75.91160	ng	-5	30	0.0500	
4-Chlorophenyl-phenylether	0.7001	0.6183	80.00000	70.65300	ng	-12	40	0.0500	
4-Nitroaniline	0.3217	0.3160	80.00000	78.57540	ng	-2	30	0.0500	

+=high bias -=low bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA02 Run Name : IDF : 1.0
Seqnum : 514402284019 Filename : uj519 Injected : 05-OCT-2004 21:12
Calnum : 514396535001 Caldate : 01-OCT-2004 Caltype :
Standards: 04WS1860

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1611	0.1688	80.00000	75.07240	ng	-6	30	0.0500	
N-Nitrosodiphenylamine	0.5880	0.5630	80.00000	76.60480	ng	-4	20	0.0500	
Azobenzene	0.8998	0.7769	80.00000	69.07300	ng	-14	30	0.0500	
4-Bromophenyl-phenylether	0.2723	0.2583	80.00000	70.47880	ng	-12	30	0.0500	
Hexachlorobenzene	0.3010	0.2912	80.00000	77.38920	ng	-3	30	0.0500	
Pentachlorophenol	0.1579	0.1505	80.00000	70.26350	ng	-12	20	0.0500	
Phenanthrene	1.1361	1.1220	80.00000	79.00500	ng	-1	30	0.0500	
Anthracene	1.1006	1.1080	80.00000	80.53770	ng	1	30	0.0500	
Carbazole	1.0189	0.9987	80.00000	78.40820	ng	-2	30	0.0500	
Di-n-butylphthalate	1.5827	1.6654	80.00000	84.17920	ng	5	30	0.0500	
Fluoranthene	1.1643	1.1976	80.00000	82.29320	ng	3	20	0.0500	
Benzidine	0.0273	0.0914	80.00000	267.4274	ng	234	40	0.0500	c+ irf
Pyrene	1.6411	1.5920	80.00000	77.60630	ng	-3	30	0.0500	
Butylbenzylphthalate	0.8175	0.8057	80.00000	78.84820	ng	-1	30	0.0500	
3,3'-Dichlorobenzidine	0.4477	0.4598	80.00000	82.15540	ng	3	40	0.0500	
Benzo(a)anthracene	1.2955	1.2149	80.00000	75.02340	ng	-6	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0004	0.9435	80.00000	75.45350	ng	-6	30	0.0500	
Chrysene	1.1350	1.0437	80.00000	73.56100	ng	-8	30	0.0500	
Di-n-octylphthalate	2.4174	2.1635	80.00000	66.18280	ng	-17	20	0.0500	
Benzo(b)fluoranthene	1.5819	1.6007	80.00000	72.72990	ng	-9	30	0.0500	
Benzo(k)fluoranthene	1.7103	1.6455	80.00000	76.96770	ng	-4	30	0.0500	
Benzo(a)pyrene	1.2926	1.3551	80.00000	74.31950	ng	-7	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.1261	0.9852	80.00000	69.99210	ng	-13	30	0.0500	
Dibenz(a,h)anthracene	0.8996	0.7893	80.00000	70.18710	ng	-12	30	0.0500	
Benzo(g,h,i)perylene	0.8725	0.7426	80.00000	68.09440	ng	-15	30	0.0500	
2-Fluorophenol	1.3605	1.3856	80.00000	81.47570	ng	2	30	0.0500	
Phenol-d5	1.8176	1.7513	80.00000	77.07970	ng	-4	30	0.0500	
Nitrobenzene-d5	0.3584	0.3365	80.00000	75.09780	ng	-6	30	0.0500	
2-Fluorobiphenyl	1.3350	1.2142	80.00000	72.76570	ng	-9	30	0.0500	
2,4,6-Tribromophenol	0.2395	0.2316	80.00000	77.34320	ng	-3	30	0.0500	
Terphenyl-d14	1.1830	1.1575	80.00000	78.27550	ng	-2	30	0.0500	

+=high bias -=low bias c=CCV irf=ICAL minimum RF failure rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05 Run Name : IDF : 1.0
Seqnum : 544405243002 Filename : xj702 Injected : 07-OCT-2004 10:20
Calnum : 544403805004 Caldate : 06-OCT-2004 Caltype :
Standards: 04WS1860

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.3966	0.4197	80.00000	84.64380	ng	6	30	0.0500	
Pyridine	1.0374	1.1357	80.00000	87.58070	ng	9	30	0.0500	
Phenol	1.3821	1.4039	80.00000	81.26170	ng	2	20	0.0500	
Aniline	0.4984	0.5163	80.00000	82.87720	ng	4	30	0.0500	
bis(2-Chloroethyl)ether	0.7358	0.7830	80.00000	85.13300	ng	6	30	0.0500	
2-Chlorophenol	1.2109	1.2500	80.00000	82.58870	ng	3	30	0.0500	
1,3-Dichlorobenzene	1.4954	1.5242	80.00000	81.53760	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.4780	1.5267	80.00000	82.63600	ng	3	20	0.0500	
Benzyl alcohol	0.6893	0.7180	80.00000	83.33310	ng	4	30	0.0500	
1,2-Dichlorobenzene	1.3952	1.4445	80.00000	82.82900	ng	4	30	0.0500	
2-Methylphenol	0.8188	0.8404	80.00000	82.11200	ng	3	30	0.0500	
bis(2-Chloroisopropyl) ether	1.4638	1.5437	80.00000	84.36890	ng	5	30	0.0500	
4-Methylphenol	1.2743	1.3254	80.00000	83.21100	ng	4	30	0.0500	
N-Nitroso-di-n-propylamine	0.5594	0.5853	80.00000	83.70670	ng	5	30	0.0500	
Hexachloroethane	0.5035	0.5313	80.00000	84.42120	ng	6	30	0.0500	
Nitrobenzene	0.2817	0.2860	80.00000	81.22010	ng	2	30	0.0500	
Isophorone	0.5238	0.5325	80.00000	81.33820	ng	2	30	0.0500	
2-Nitrophenol	0.1937	0.2019	80.00000	83.39560	ng	4	20	0.0500	
2,4-Dimethylphenol	0.2687	0.2684	80.00000	79.91430	ng	0	30	0.0500	
bis(2-Chloroethoxy)methane	0.3658	0.3798	80.00000	83.07210	ng	4	30	0.0500	
Benzoic acid	0.1467	0.1426	80.00000	67.28100	ng	-16	40	0.0500	
2,4-Dichlorophenol	0.3204	0.3261	80.00000	81.41160	ng	2	20	0.0500	
1,2,4-Trichlorobenzene	0.3927	0.4011	80.00000	81.71120	ng	2	30	0.0500	
Naphthalene	0.9438	0.9616	80.00000	81.50260	ng	2	30	0.0500	
4-Chloroaniline	0.3918	0.3941	80.00000	80.47360	ng	1	30	0.0500	
Hexachlorobutadiene	0.2575	0.2646	80.00000	82.19550	ng	3	20	0.0500	
4-Chloro-3-methylphenol	0.2535	0.2642	80.00000	83.37970	ng	4	20	0.0500	
2-Methylnaphthalene	0.7269	0.7477	80.00000	82.27970	ng	3	30	0.0500	
Hexachlorocyclopentadiene	0.3263	0.3886	80.00000	95.29780	ng	19	40	0.0500	
2,4,6-Trichlorophenol	0.4161	0.4291	80.00000	82.49580	ng	3	20	0.0500	
2,4,5-Trichlorophenol	0.4116	0.4227	80.00000	82.15930	ng	3	30	0.0500	
2-Chloronaphthalene	1.0410	1.0614	80.00000	81.56630	ng	2	30	0.0500	
2-Nitroaniline	0.2140	0.2229	80.00000	83.33270	ng	4	30	0.0500	
Dimethylphthalate	1.2601	1.2784	80.00000	81.16610	ng	1	30	0.0500	
2,6-Dinitrotoluene	0.3045	0.3078	80.00000	80.86770	ng	1	30	0.0500	
Acenaphthylene	1.6351	1.7031	80.00000	83.33130	ng	4	30	0.0500	
3-Nitroaniline	0.2890	0.2992	80.00000	82.80550	ng	4	30	0.0500	
Acenaphthene	1.0054	1.0333	80.00000	82.21520	ng	3	20	0.0500	
2,4-Dinitrophenol	0.1763	0.2032	80.00000	80.40720	ng	1	40	0.0500	
4-Nitrophenol	0.0974	0.0960	80.00000	78.88080	ng	-1	40	0.0500	
Dibenzofuran	1.5535	1.6240	80.00000	83.63280	ng	5	30	0.0500	
2,4-Dinitrotoluene	0.3914	0.4071	80.00000	83.21110	ng	4	30	0.0500	
Diethylphthalate	1.1699	1.2286	80.00000	84.01290	ng	5	30	0.0500	
Fluorene	1.2625	1.3135	80.00000	83.23270	ng	4	30	0.0500	
4-Chlorophenyl-phenylether	0.6895	0.7306	80.00000	84.76990	ng	6	40	0.0500	
4-Nitroaniline	0.2534	0.2711	80.00000	85.56760	ng	7	30	0.0500	

!=calc err rsd=ICAL %RSD failure
Page 1 of 2

10/07/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544405243002
Calnum : 544403805004
Standards: 04WS1860

Run Name :
Filename : xj702
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 07-OCT-2004 10:20
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1259	0.1426	80.00000	90.66550	ng	13	30	0.0500	
N-Nitrosodiphenylamine	0.4382	0.4567	80.00000	83.36660	ng	4	20	0.0500	
Azobenzene	0.4479	0.4855	80.00000	86.71700	ng	8	30	0.0500	
4-Bromophenyl-phenylether	0.2567	0.2587	80.00000	80.63820	ng	1	30	0.0500	
Hexachlorobenzene	0.2852	0.2981	80.00000	83.61820	ng	5	30	0.0500	
Pentachlorophenol	0.1830	0.1845	80.00000	80.62390	ng	1	20	0.0500	
Phenanthrene	0.9542	1.0024	80.00000	84.03740	ng	5	30	0.0500	
Anthracene	0.9875	1.0096	80.00000	81.78990	ng	2	30	0.0500	
Carbazole	0.7812	0.8136	80.00000	83.31680	ng	4	30	0.0500	
Di-n-butylphthalate	1.1073	1.0982	80.00000	79.34570	ng	-1	30	0.0500	
Fluoranthene	1.2253	1.2259	80.00000	80.04120	ng	0	20	0.0500	
Benzidine	0.1202	0.1083	80.00000	68.61490	ng	-14	40	0.0500	! rsd *
Pyrene	1.2492	1.3188	80.00000	84.46180	ng	6	30	0.0500	
Butylbenzylphthalate	0.5048	0.5137	80.00000	81.40930	ng	2	30	0.0500	
3,3'-Dichlorobenzidine	0.4690	0.4839	80.00000	82.54640	ng	3	40	0.0500	
Benzo(a)anthracene	1.2773	1.2992	80.00000	81.37280	ng	2	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.7347	0.7331	80.00000	79.82030	ng	0	30	0.0500	
Chrysene	1.1556	1.2181	80.00000	84.32760	ng	5	30	0.0500	
Di-n-octylphthalate	1.4144	1.3144	80.00000	74.34420	ng	-7	20	0.0500	
Benzo(b)fluoranthene	1.5038	1.7616	80.00000	93.71220	ng	17	30	0.0500	
Benzo(k)fluoranthene	1.2754	1.2567	80.00000	78.82850	ng	-1	30	0.0500	
Benzo(a)pyrene	1.2904	1.3128	80.00000	81.38740	ng	2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.3777	1.3586	80.00000	78.89080	ng	-1	30	0.0500	
Dibenz(a,h)anthracene	1.1227	1.1189	80.00000	79.72940	ng	0	30	0.0500	
Benzo(g,h,i)perylene	1.0675	1.0240	80.00000	76.73960	ng	-4	30	0.0500	
2-Fluorophenol	1.0995	1.1453	80.00000	83.33530	ng	4	30	0.0500	
Phenol-d5	1.3192	1.3800	80.00000	83.68330	ng	5	30	0.0500	
Nitrobenzene-d5	0.2923	0.2991	80.00000	81.87770	ng	2	30	0.0500	
2-Fluorobiphenyl	1.2230	1.2554	80.00000	82.11820	ng	3	30	0.0500	
2,4,6-Tribromophenol	0.2998	0.3186	80.00000	84.99800	ng	6	30	0.0500	
Terphenyl-d14	1.0469	1.0740	80.00000	82.06940	ng	3	30	0.0500	

1/07/04

!=calc err rsd=ICAL %RSD failure
Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 05-OCT-2004
Sequence: 514402284 (uj5)
Instrument ID: MSBNA02

CCV Filename: uj519
Date Analyzed: 05-OCT-2004
Time Analyzed: 21:12

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	969027	6.97	3371537	9.06	1900624	12.39	2681832	15.33	2083520	20.65	1119612	23.36
LOWER LIMIT	484514	6.47	1685769	8.56	950312	11.89	1340916	14.83	1041760	20.15	559806	22.86
UPPER LIMIT	1938054	7.47	6743074	9.56	3801248	12.89	5363664	15.83	4167040	21.15	2239224	23.86

TYPE	SAMPLE	#												
CCV		019	969027	6.97	3371537	9.06	1900624	12.39	2681832	15.33	2083520	20.65	1119612	23.36
BLANK	QC266935	021	949517	6.96	3298021	9.04	1858186	12.38	2860552	15.32	1965900	20.63	1395693	23.35
LCS	QC266936	022	1003474	6.96	3506586	9.05	1856384	12.39	2864927	15.33	2160231	20.64	1443537	23.35
MSS	175015-008	023	921763	6.96	3332931	9.05	1774110	12.38	2642605	15.33	1605827	20.63	967856	23.35
MS	QC266937	024	1059490	6.96	3637812	9.05	1790043	12.39	2961476	15.33	1749647	20.64	964478	23.35
MSD	QC266938	025	977527	6.96	3418748	9.05	1755441	12.39	2712188	15.33	1554823	20.64	732527	23.35
SAMPLE	175015-002	026	1210567	6.97	4352278	9.04	2201692	12.38	3221907	15.32	1904556	20.62	1000149	23.35
SAMPLE	174994-001	027	1050239	6.97	3698330	9.04	1953647	12.38	2815676	15.32	1559981	20.62	821971	23.35
SAMPLE	174994-003	028	953034	6.96	3311593	9.05	1771837	12.38	2608008	15.33	1409553	20.63	639490	23.34
SAMPLE	175015-001	029	1132350	6.96	4007719	9.05	2084290	12.39	2993235	15.32	1531002	20.63	625898	23.34
SAMPLE	175042-002	030	1017715	6.96	3594949	9.05	1840918	12.38	2720314	15.33	1321368	20.62	524435*	23.34
SAMPLE	175015-004	031	1062804	6.97	3669565	9.04	1887194	12.38	2697746	15.32	1282591	20.62	503145*	23.34
SAMPLE	174994-002	032	1039246	6.97	3652440	9.04	1863949	12.38	2645845	15.32	1170033	20.62	434951*	23.34
SAMPLE	175042-001	033	981641	6.97	3526280	9.04	1715416	12.37	2494037	15.32	1087601	20.62	399554*	23.34
SAMPLE	175015-007	034	1062069	6.96	3656474	9.05	1867032	12.38	2533206	15.33	1068932	20.62	381954*	23.34
SAMPLE	174994-004	035	1063625	6.97	3637522	9.05	1728606	12.38	2474152	15.32	986717*	20.63	348025*	23.34

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 07-OCT-2004
Sequence: 544405243 (xj7)
Instrument ID: MSBNA05

CCV Filename: xj702
Date Analyzed: 07-OCT-2004
Time Analyzed: 10:20

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	488212	6.67	1759561	8.18	1133692	10.37	2222984	12.21	2164230	15.88	1970069	19.42
LOWER LIMIT	244106	6.17	879781	7.68	566846	9.87	1111492	11.71	1082115	15.39	985035	18.92
UPPER LIMIT	976424	7.17	3519122	8.68	2267384	10.87	4445968	12.71	4328460	16.39	3940138	19.92

TYPE	SAMPLE	#												
CCV		002	488212	6.67	1759561	8.18	1133692	10.37	2222984	12.21	2164230	15.89	1970069	19.42
SAMPLE	175065-004	004	559630	6.66	1990672	8.17	1269158	10.37	2336895	12.20	2466017	15.86	2219749	19.40
SAMPLE	174921-005	005	514461	6.66	1752177	8.17	1120108	10.37	2140247	12.21	2261334	15.87	1821577	19.42
SAMPLE	174896-003	006	549382	6.66	1913529	8.17	1202529	10.37	2252872	12.21	2222121	15.90	1543098	19.44
SAMPLE	174951-002	007	605302	6.66	2160747	8.17	1380184	10.37	2478352	12.20	2532080	15.87	2116076	19.40
SAMPLE	174951-003	008	611062	6.66	2161045	8.17	1394314	10.37	2528103	12.21	2545705	15.87	1962532	19.42
SAMPLE	174951-005	009	652431	6.66	2309790	8.17	1458660	10.37	2697124	12.20	2701937	15.86	2196830	19.40
SAMPLE	174951-008	010	617536	6.66	2176788	8.17	1383733	10.36	2509002	12.20	2563709	15.86	2091567	19.40
SAMPLE	174999-001	011	607821	6.67	2146188	8.17	1398428	10.37	2588624	12.20	2561946	15.86	1869144	19.40
SAMPLE	174999-002	012	614106	6.67	2170101	8.17	1400014	10.37	2611241	12.20	2702020	15.86	2212961	19.39
SAMPLE	174999-003	013	609842	6.67	2168921	8.18	1395164	10.37	2685419	12.21	2589427	15.87	1813870	19.40
SAMPLE	175037-003	014	657094	6.67	2356631	8.17	1491976	10.37	2775231	12.20	2859601	15.86	2328009	19.40
SAMPLE	175001-001	015	645004	6.67	2232948	8.17	1448675	10.37	2679659	12.21	2592760	15.86	948057*	19.39
SAMPLE	174969-003	016	834585	6.67	3026081	8.18	1981120	10.37	3791441	12.21	3556606	15.87	1909852	19.40
SAMPLE	174945-010	017	644743	6.66	2279009	8.17	1431598	10.37	2622825	12.21	2502426	15.87	1275839	19.41

* = Outside QC Limits

BNA02 8270 Calibration

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 514396535 Instrument: MSBNA02 HP GCMS BNA 02 Begun: 01-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used		>LR
001	uj101	TUN	NP NL			01-OCT-2004 08:55	1.0						1		
002	uj102	CCV				01-OCT-2004 09:26	1.0	7		1			2	cc+	1:DNOP=166.915
003	uj103	TUN	DFTPP 50NG			01-OCT-2004 11:20	1.0						1		
004	uj104	CCV				01-OCT-2004 11:40	1.0	5		1			2	cc-	
005	uj105	CCV				01-OCT-2004 12:23	1.0	5		1			3	cc-	
006	uj106	TUN	DFTPP 50NG			01-OCT-2004 15:35	1.0	1					1	t	
007	uj107	TUN	DFTPP 50NG			01-OCT-2004 18:37	1.0						1		
008	uj108	CCV				01-OCT-2004 18:57	1.0	11		1			3	cc-.cc+	
009	uj109	ICAL	ICAL 2ug/ml			01-OCT-2004 19:51	1.0						4		
010	uj110	ICAL	ICAL 10ug/ml			01-OCT-2004 20:34	1.0						5		
011	uj111	ICAL	ICAL 20ug/ml			01-OCT-2004 21:16	1.0						6		
012	uj112	ICAL	ICAL 50ug/ml			01-OCT-2004 21:58	1.0						3		
013	uj113	ICAL	ICAL 80ug/ml			01-OCT-2004 22:40	1.0						2		
014	uj114	ICAL	ICAL 120ug/m			01-OCT-2004 23:22	1.0						7		
015	uj115	ICAL	ICAL 160ug/m			02-OCT-2004 00:04	1.0						8		
016	uj116	ICV	ICV 80ug/ml			02-OCT-2004 00:45	1.0	3		1			9		1:BZD=174.297

ICAL: Ok except Aniline + Benzidine fail min RF - NA
ICV: Aniline ↓; Benzoic Acid ↑; Benzidine ↑ fail

232

Stds used: 1=04WS1543 2=04WS1380 3=04WS1379 4=04WS1376 5=04WS1377 6=04WS1378 7=04WS1381 8=04WS1382 9=04WS1724
Flags used: +=high bias -=low bias cc=CCV QCC failure t=tune failure

Analyst: _____ Date: 10/2/04

Page 1 of 1

10/4/04

MB | LCS | MSS | MS | MSD

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 514402284 Instrument: MSBNA02 HP GCMS BNA 02 Begun: 05-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	uj501	TUN	DFTPP 50NG			05-OCT-2004 08:44	1.0	1.0				1	
002	uj502	CCV				05-OCT-2004 09:05	1.0	1.0	2		1	2	1:BZD=389.089
003	uj503	SAMPLE	174899-001	94978	Soil	05-OCT-2004 09:47	1.0	0.03292		1	1	3 RR #355	
004	uj504	SAMPLE	174899-002	94978	Soil	05-OCT-2004 10:28	1.0	0.03307			1	3	1:ANILIN=163.641
005	uj505	SAMPLE	174896-001	94978	Soil	05-OCT-2004 11:10	1.0	0.03318			1	3	1:ANILIN=165.969
006	uj506	SAMPLE	174896-002	94978	Soil	05-OCT-2004 11:50	1.0	0.03352			1	3	1:ANILIN=161.544
007	uj507	SAMPLE	174896-004	94978	Soil	05-OCT-2004 12:31	1.0	0.03329		1	1	3 RR #355	1:ANILIN=163.342
008	uj508	SAMPLE	174896-005	94978	Soil	05-OCT-2004 13:12	1.0	0.03322			1	3	1:ANILIN=170.070
009	uj509	SAMPLE	174921-001	94978	Soil	05-OCT-2004 13:54	1.0	0.03294			1	3	1:ANILIN=163.880
010	uj510	SAMPLE	174921-002	94978	Soil	05-OCT-2004 14:35	1.0	0.03288			1	3	
011	uj511	SAMPLE	174921-003	94978	Soil	05-OCT-2004 15:17	1.0	0.03311			1	3	1:ANILIN=161.238
012	uj512	SAMPLE	174921-004	94978	Soil	05-OCT-2004 15:57	1.0	0.03333			1	3	1:ANILIN=160.863
013	uj513	SAMPLE	174906-001	94978	Soil	05-OCT-2004 16:39	1.0	0.03324			1	3	
014	uj514	SAMPLE	174906-002	94978	Soil	05-OCT-2004 17:20	1.0	0.03299			1	3	1:ANILIN=164.891
015	uj515	SAMPLE	174921-006	94978	Soil	05-OCT-2004 18:02	1.0	0.03299			1	3	1:ANILIN=168.330
016	uj516	SAMPLE	174921-005	94978	Soil	05-OCT-2004 18:43	1.0	0.03324		1	1	3 RR 5X #5613 / #355	
017	uj517	SAMPLE	174896-003	94978	Soil	05-OCT-2004 19:26	1.0	0.067	3		1	3 4X #5613	1:PYR=343.745
018	uj518	TUN	NP NL			05-OCT-2004 20:52	1.0	1.0				1	
019	uj519	CCV				05-OCT-2004 21:12	1.0	1.0	2		1	2	1:BZD=267.427
020	uj520	PEM				05-OCT-2004 21:54	1.0					4	
021	uj521	BLANK	QC266935	95183	Soil	05-OCT-2004 22:36	1.0	0.03365	2		1	3	1:ANILIN=170.304
022	uj522	LCS	QC266936	95183	Soil	05-OCT-2004 23:18	1.0	0.03298	3		1	3	1:BZD=196.100
023	uj523	MSS	175015-008	95183	Soil	06-OCT-2004 00:00	1.0	0.03315	2		1	3	1:ANILIN=170.271
024	uj524	MS	QC266937	95183	Soil	06-OCT-2004 00:41	1.0	0.03313	3		1	3	
025	uj525	MSD	QC266938	95183	Soil	06-OCT-2004 01:24	1.0	0.03355	3		1	3	
026	uj526	SAMPLE	175015-002	95183	Soil	06-OCT-2004 02:05	1.0	0.03342			1	3	1:ANILIN=170.120
027	uj527	SAMPLE	174994-001	95183	Soil	06-OCT-2004 02:47	1.0	0.03303			1	3	1:ANILIN=170.356
028	uj528	SAMPLE	174994-003	95183	Soil	06-OCT-2004 03:28	1.0	0.03313			1	3	1:ANILIN=162.550
029	uj529	SAMPLE	175015-001	95183	Soil	06-OCT-2004 04:09	1.0	0.03294			1	3	1:ANILIN=169.604
030	uj530	SAMPLE	175042-002	95183	Soil	06-OCT-2004 04:51	1.0	0.03293			1	3	1:ANILIN=170.142
031	uj531	SAMPLE	175015-004	95183	Soil	06-OCT-2004 05:31	1.0	0.03283			1	3	1:ANILIN=168.840

Stds used: 1=04WS1543 2=04WS1860 3=04SS118 4=04WS0801

* ICAL = Aniline / Benzidine failed = NT
* ICV = Benzoic Acid ↑ / Aniline ↓ / Benzidine ↑
* CCV UJ5 02/19 = Aniline ↓ / Benzidine ↑ = NT

Analyst: LLA Date: 10/6/04

✓ 10/6/04

BNA 05 8270 Calibration

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

1 of 2

Sequence: 544403805 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 06-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xj601	TUN	DFTPP 50NG			06-OCT-2004 10:05	1.0	1.0				1	
002	xj602	CCV				06-OCT-2004 10:24	1.0	1.0	2		1	2 cc-	
003	xj603	CCV				06-OCT-2004 11:28	1.0	1.0	2		1	2 cc-	
004	xj604	ICAL	2ug/mL			06-OCT-2004 12:18	1.0	1.0				3	
005	xj605	ICAL	10ug/mL			06-OCT-2004 12:56	1.0	1.0				4	
006	xj606	ICAL	20ug/mL			06-OCT-2004 13:33	1.0	1.0				5	
007	xj607	ICAL	50ug/mL			06-OCT-2004 14:11	1.0	1.0				6	
008	xj608	ICAL	80ug/mL			06-OCT-2004 14:48	1.0	1.0				7	
009	xj609	ICAL	120ug/mL			06-OCT-2004 15:25	1.0	1.0				8	
010	xj610	ICAL	160ug/mL			06-OCT-2004 16:01	1.0	1.0				9	
011	xj611	ICV	80ug/mL			06-OCT-2004 16:38	1.0	1.0	3		1	10	1:BZBF=104.620
012	xj612	TUN	NP NL			06-OCT-2004 18:10	1.0	1.0	1			1 t	
013	xj613	TUN	NP NL			06-OCT-2004 18:47	1.0	1.0				1	
014	xj614	CCV				06-OCT-2004 19:04	1.0	1.0	1		1	6	
015	xj615	BLANK	QC266919	95178	Soil	06-OCT-2004 19:43	1.0	0.03315	1		1	11	
016	xj616	LCS	QC266920	95178	Soil	06-OCT-2004 20:20	1.0	0.03352	3		1	11	
017	xj617	MSS	174969-001	95178	Soil	06-OCT-2004 20:58	1.0	0.03333			1	11 spk	
018	xj618	MS	QC266921	95178	Soil	06-OCT-2004 21:36	1.0	0.03321	3		1	11	
019	xj619	MSD	QC266922	95178	Soil	06-OCT-2004 22:13	1.0	0.03332	3		1	11	
020	xj620	SAMPLE	174783-011	95178	Soil	06-OCT-2004 22:50	1.0	0.03323	19		1	11 sh spk	
021	xj621	SAMPLE	174783-012	95178	Soil	06-OCT-2004 23:28	1.0	0.03311	19	1	1	11 sh spk	
022	xj622	SAMPLE	174780-004	95178	Soil	07-OCT-2004 00:05	1.0	0.033	19	1	1	11 sh spk	
023	xj623	SAMPLE	174781-013	95178	Soil	07-OCT-2004 00:42	1.0	0.03328	19		1	11 sh spk	
024	xj624	SAMPLE	174781-015	95178	Soil	07-OCT-2004 01:20	1.0	0.03311	19	1	1	11 sh spk	
025	xj625	SAMPLE	174783-010	95178	Soil	07-OCT-2004 01:58	1.0	0.03303	19	1	1	11 sh spk	
026	xj626	SAMPLE	174781-011	95178	Soil	07-OCT-2004 02:35	1.0	0.03298	19		1	11 sh spk	
027	xj627	SAMPLE	174783-009	95178	Soil	07-OCT-2004 03:12	1.0	0.03333	19		1	11 sh spk	
028	xj628	SAMPLE	174781-012	95178	Soil	07-OCT-2004 03:50	1.0	0.0332	19		1	11 sh spk	
029	xj629	SAMPLE	174780-003	95178	Soil	07-OCT-2004 04:28	1.0	0.03297	19	1	1	11 sh spk	
030	xj630	SAMPLE	174781-014	95178	Soil	07-OCT-2004 05:05	1.0	0.03317	19		1	11 sh spk	

Stds used: 1=04WS1543 2=04WS1379 3=04WS1856 4=04WS1857 5=04WS1858 6=04WS1859 7=04WS1860 8=04WS1861 9=04WS1862 10=04WS1724 11=0
Flags used: -=low bias <<t=out of clock cc=CCV CCC failure sh=out of sample hold spk=5% spike rule t=tune failure

Analyst: Date: 10/7/04

Benzo(b) to 80ug/L

ICAL: Oth except Benzidine fails %RSD
ICV: Benzidine tend ↑; Benzidine ↓; Benzo (b) fluoranthene ↑ tend ↑
— 4,6-Dinitro-2-methylphenol ↑; Carbazole ↓ tend recovery limit

(10/07)

-3

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 544405243 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 07-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xj701	TUN	DFTPP 50NG			07-OCT-2004 10:03	1.0	1.0				1	
002	xj702	CCV				07-OCT-2004 10:20	1.0	1.0	1		1	2	1:BZBF=93.7122
003	xj703	X	PEM 04WS0801			07-OCT-2004 11:05	1.0						
004	xj704	SAMPLE	175065-004	95183	Soil	07-OCT-2004 12:15	1.0	0.03346			1	3	
005	xj705	SAMPLE	174921-005	94978	Soil	07-OCT-2004 13:25	5.0	0.03324			1	3	
006	xj706	SAMPLE	174896-003	94978	Soil	07-OCT-2004 14:02	4.0	0.067	1		1	3	
007	xj707	SAMPLE	174951-002	95117	Soil	07-OCT-2004 14:38	1.0	0.03386	1		1	3	
008	xj708	SAMPLE	174951-003	95117	Soil	07-OCT-2004 15:14	1.0	0.03378			1	3	
009	xj709	SAMPLE	174951-005	95117	Soil	07-OCT-2004 15:52	1.0	0.03373			1	3	
010	xj710	SAMPLE	174951-008	95117	Soil	07-OCT-2004 16:28	1.0	0.03375			1	3	
011	xj711	SAMPLE	174999-001	95103	Water	07-OCT-2004 17:06	1.0	0.0009524	1		1	3	
012	xj712	SAMPLE	174999-002	95103	Water	07-OCT-2004 17:43	1.0	0.0009524			1	3	
013	xj713	SAMPLE	174999-003	95103	Water	07-OCT-2004 18:21	1.0	0.0009524	2		1	3	
014	xj714	SAMPLE	175037-003	95183	Soil	07-OCT-2004 18:58	1.0	0.03292			1	3	
015	xj715	SAMPLE	175001-001	95103	Water	07-OCT-2004 19:36	1.0	0.0009804		1	1	3	
016	xj716	SAMPLE	174969-003	95178	Soil	07-OCT-2004 20:13	1.0	0.03328			1	3	
017	xj717	SAMPLE	174945-010	95117	Soil	07-OCT-2004 20:51	1.0	0.03364			1	3	

235

* ICAL = Benzidine failed = (M)
* ICV = Benzoic Acid ↑ / Benzidine ↓ / Benzo(b) fluoranthene ↑
= 4,6-Dinitro-2-methylphenol ↑ / Carbazole ↓ warning limit.
* CCV = ok

Stds used: 1=04WS1543 2=04WS1860 3=04SS118

Analyst: [illegible] Date: 10/8/04

10/8/04

REPORTING SUMMARY FOR 175037 8270 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | NPBCDDBDMBMNHNINDBBDTNCHCMHTTCNDADNADNDDDFCNDNABHPPADFPBDBCBDBBBIDNHILCCZCEIENCOSTMZECCALC4TCCCNOMCNOCNTBNELPONNZPCCHNNLYBBZHINZZZNBSESPBBLBPSPSLL2OPPAC PBPAB MNCPPP2PNT2NPPFTP PP24SBPLPATBARPZARSOBKAPAMNZHZZAZH2HPEBPH2CE21HNU3PPZ2HAHP2APZ2H H2H EA6PZEB NHP DAY2PFFP1H | Prepared |
|---|---|---

Curtis & Tompkins Laboratories Sample Preparation Summary 05-OCT-2004 16:17

Batch Number : 95183
Date Extracted: 05-OCT-2004
Extracted by : Sharon L. Karagozlu
Prep Method : 3550

Analysis : 8270
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1834B
Spike #2 ID : 04WS1782B
Spike #3 ID : 04WS1757C
SOP Version : 8270s_rv8

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.f.	Clean D.f.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174994-001			URS Corporation	Soil	30.28	g	1	0.033025	1		1	0	0	8270		
174994-002			URS Corporation	Soil	30.01	g	1	0.033322	1		1	0	0	8270		
174994-003			URS Corporation	Soil	30.18	g	1	0.033135	1		1	0	0	8270		
174994-004			URS Corporation	Soil	30.21	g	1	0.033102	1		1	0	0	8270		
175015-001			Tetra Tech EMI	Soil	30.36	g	1	0.032938	1		1	0	0	8270		
175015-002			Tetra Tech EMI	Soil	29.92	g	1	0.033422	1		1	0	0	8270		
175015-003			Tetra Tech EMI	Soil	29.7	g	1	0.033670	1		1	0	0	8270		
175015-004			Tetra Tech EMI	Soil	30.46	g	1	0.032830	1		1	0	0	8270		
175015-005			Tetra Tech EMI	Soil	30.32	g	1	0.032982	1		1	0	0	8270		
175015-006			Tetra Tech EMI	Soil	29.82	g	1	0.033535	1		1	0	0	8270		
175015-007			Tetra Tech EMI	Soil	29.66	g	1	0.033715	1		1	0	0	8270		
175015-008			Tetra Tech EMI	Soil	30.17	g	1	0.033146	1		1	0	0	8270		mss
175015-009			Tetra Tech EMI	Soil	30.23	g	1	0.033080	1		1	0	0	8270		
175037-003			Treadwell & Rollo	Soil	30.38	g	1	0.032916	1		1	0	0	8270		
175042-001			URS Corporation	Soil	29.88	g	1	0.033467	1		1	0	0	8270		
175042-002			URS Corporation	Soil	30.37	g	1	0.032927	1		1	0	0	8270		
175065-001			URS Corporation	Soil	29.99	g	1	0.033344	1		1	0	0	8270		
175065-002			URS Corporation	Soil	30.28	g	1	0.033025	1		1	0	0	8270		
175065-003			URS Corporation	Soil	30.39	g	1	0.032906	1		1	0	0	8270		
175065-004			URS Corporation	Soil	29.89	g	1	0.033456	1		1	0	0	8270		
QC266935	MB			Soil	29.72	g	1	0.033647	1		1	0	0	8270		
QC266936	LCS			Soil	30.32	g	1	0.032982	1		1	1	1	8270		
QC266937	MS	of 175015-008		Soil	30.18	g	1	0.033135	1		1	1	1	8270		
QC266938	MSD	of 175015-008		Soil	29.81	g	1	0.033546	1		1	1	1	8270		

Prep Chemist: _____ Reviewed By: _____ Date: 10/5/04

Relinquished By: _____ Received By: _____ Date: 10/6/04

Curtis & Tompkins, Ltd. **8270 SOIL PREP LOG** BK 1976 page 63 of 100

LIMS Batch No: 95183
LIMS Analysis 8270
Extracted by: SLK
Date Extracted: 10/05/04

Extraction Method:
☑ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel
☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB QC 266935	29.72	1.0		
LCS 36	30.32			
MS 37	30.18			175015-008
MSD 38	29.81			
174994-001	30.28			
-002	30.01			
-003	30.18			
-004	30.21			
175015-001	30.36			
-002	29.92			
-003	29.70			
-004	30.46			
-005	30.32			dark, oily
-006	29.82			
-007	29.66			
-008	30.17			MSS
-009	30.23			
175037-003	30.38			
175042-001	29.88			
-002	30.37			
175065-001	29.99			
-002	30.28			
-003	30.39			
-004	29.89			
	SLK	10/05/04		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	F030132	SLK 10/5/04
Samples were dried with baked, CH_2Cl_2-rinsed granular Na_2SO_4	EM 44040108 SLK 10/5/04 44135434	
1.0 mL of surrogate solution was added to all samples	04WS 1834B	
1.0 mL of each matrix spiking solution was added to all spikes	04WS1782B / 04WS1757C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM 44233	
Acetone	EM 44148	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed ~~powdered~~ granular Na_2SO_4	EM 44135434	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	
Concentrated to final volumes as noted above	✓	✓

10/05/04
Extraction Chemist / Date

Continued from page _____
Continued on page _____

10/5/04
Reviewed by / Date

Sample ID	Weight (g)	Analysis	Comments
~~175015~~ MC 10/4			
175015-001A	30.36	8270	
-002	29.92		
-003	29.70		
-004	30.44		
-005	30.32		MC 10/4 MSS
-006	29.82		
-007	29.66		
-008	30.17		MSS
-009	30.23		
MS	30.18		175015-008A
MSD	29.81		
LCS	30.32		F030132
MB	29.72		
175015-001A	50.08	TEHM	
-002	49.81		
-003	50.33		
-004	49.84		
-005	50.01		MSS
-006	50.43		
-007	49.96		
-008	50.21		
-009	49.98		
MS	50.32		175015-005A
MSD	50.00		
LCS	50.08		F030132
MB	50.00		

Continued on Page

Read and Understood By

Michelle Coates 10/4/04

Signed Date Signed Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174988-018A	15.20	8081	
-019A	14.86		
-020A	15.23		
MS	15.15		174988-006A
MSD	14.95		
LCS	15.14		F030132
MB	14.83		
175017-001	50.47	TEH	4, COMP A-D
174993-001	14.90	PCB	2, COMP A-B
175026-005A	15.20	8081	
-014A	14.86		
175031-005A	15.16	8081	
-009A Mc 1%	14.84		2, COMP A-B
-014A Mc 1%	15.06		
-013A	14.89		MSS
MS	14.92		
MSD	14.94		
LCS	14.92		
MB	15.15		
175037-003A	14.82	8081	
-004A	14.96		
-005A	14.84		
-006A	Mc 10% 14.95 ~~14.95~~ ~~14.82~~		
175037-003A	50.44	TEHM	
175037-003A	30.38	8270	

Continued on Page

Read and Understood By

Michelle Cuta 10/1/04

Signed Date

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
Phenol	ug/Kg	04/18/03 32	10/20/04 66	04/16/03 28	10/21/04 50	10/19/04 70
2-Chlorophenol	ug/Kg	04/18/03 32	10/20/04 61	04/16/03 22	10/21/04 39	10/19/04 75
1,4-Dichlorobenzene	ug/Kg	04/18/03 28	10/20/04 40	04/16/03 26	10/21/04 29	10/19/04 34
N-Nitroso-di-n-propylamine	ug/Kg	04/18/03 24	10/20/04 38	04/16/03 20	10/21/04 31	10/19/04 37
1,2,4-Trichlorobenzene	ug/Kg	04/18/03 20	10/20/04 36	04/16/03 22	10/21/04 18	10/19/04 30
4-Chloro-3-methylphenol	ug/Kg	04/18/03 38	10/20/04 64	04/16/03 35	10/21/04 40	10/19/04 68
Acenaphthene	ug/Kg	04/18/03 23	10/20/04 26	04/25/03 14	10/21/04 20	10/19/04 34
4-Nitrophenol	ug/Kg	04/28/03 25	10/20/04 47	04/16/03 36	10/21/04 31	10/19/04 66
2,4-Dinitrotoluene	ug/Kg	04/18/03 28	10/20/04 26	04/16/03 21	10/21/04 29	10/19/04 34
Pentachlorophenol	ug/Kg	04/28/03 32	10/20/04 56	04/16/03 47	10/21/04 87	10/19/04 71
Pyrene	ug/Kg	04/18/03 28	10/20/04 30	04/25/03 11	10/21/04 21	10/19/04 34
N-Nitrosodimethylamine	ug/Kg	04/18/03 41	10/20/04 25	04/16/03 22	10/21/04 38	10/19/04 36
Pyridine	ug/Kg	04/18/03 22	10/20/04 28	04/16/03 21	10/21/04 47	10/19/04 24
Aniline	ug/Kg	04/18/03 36	04/16/03 25	04/16/03 35	04/16/03 34	04/18/03 35
bis(2-Chloroethyl)ether	ug/Kg	04/18/03 37	10/20/04 45	04/16/03 24	10/21/04 26	10/19/04 47
1,3-Dichlorobenzene	ug/Kg	04/18/03 27	10/20/04 29	04/16/03 24	10/21/04 25	10/19/04 28
Benzyl alcohol	ug/Kg	04/18/03 31	10/20/04 37	04/16/03 18	10/21/04 19	10/19/04 39
1,2-Dichlorobenzene	ug/Kg	04/18/03 37	10/20/04 33	04/16/03 25	10/21/04 32	10/19/04 33
2-Methylphenol	ug/Kg	04/18/03 26	10/20/04 76	04/16/03 25	10/21/04 59	10/19/04 82
bis(2-Chloroisopropyl) ether	ug/Kg	04/18/03 34	10/20/04 40	04/16/03 21	10/21/04 23	10/19/04 39
4-Methylphenol	ug/Kg	04/18/03 27	10/20/04 60	04/16/03 25	10/21/04 45	10/19/04 76
Hexachloroethane	ug/Kg	04/18/03 26	10/20/04 41	04/16/03 24	10/21/04 23	10/19/04 30
Nitrobenzene	ug/Kg	04/18/03 31	10/20/04 32	04/16/03 20	10/21/04 26	10/19/04 39
Isophorone	ug/Kg	04/18/03 19	10/20/04 37	04/16/03 18	10/21/04 21	10/19/04 35
2-Nitrophenol	ug/Kg	04/28/03 27	10/20/04 71	04/16/03 26	10/21/04 45	10/19/04 61
2,4-Dimethylphenol	ug/Kg	04/18/03 63	10/20/04 79	04/16/03 72	10/21/04 58	10/19/04 68
Benzoic acid	ug/Kg	04/28/03 49	10/20/04 26	04/16/03 200	10/21/04 56	10/19/04 70
bis(2-Chloroethoxy)methane	ug/Kg	04/18/03 30	10/20/04 36	04/16/03 22	10/21/04 22	10/19/04 39
2,4-Dichlorophenol	ug/Kg	04/18/03 31	10/20/04 59	04/16/03 25	10/21/04 52	10/19/04 59
Naphthalene	ug/Kg	04/18/03 24	10/20/04 30	04/16/03 22	10/21/04 21	10/19/04 36
4-Chloroaniline	ug/Kg	04/18/03 30	10/20/04 21	04/16/03 36	10/21/04 16	10/19/04 21
Hexachlorobutadiene	ug/Kg	04/18/03 29	10/20/04 34	04/16/03 23	10/21/04 25	10/19/04 28
2-Methylnaphthalene	ug/Kg	04/18/03 27	10/20/04 34	04/16/03 24	10/21/04 29	10/19/04 30
Hexachlorocyclopentadiene	ug/Kg	04/28/03 30	10/20/04 58	04/16/03 110	10/21/04 40	10/19/04 38
2,4,6-Trichlorophenol	ug/Kg	04/18/03 30	10/20/04 55	04/16/03 29	10/21/04 43	10/19/04 59
2,4,5-Trichlorophenol	ug/Kg	04/18/03 20	10/20/04 47	04/16/03 33	10/21/04 42	10/19/04 57
2-Chloronaphthalene	ug/Kg	04/18/03 29	10/20/04 43	04/16/03 20	10/21/04 20	10/19/04 39
2-Nitroaniline	ug/Kg	04/18/03 25	10/20/04 35	04/25/03 8.8	10/21/04 23	10/19/04 49
Dimethylphthalate	ug/Kg	04/18/03 34	10/20/04 31	04/16/03 26	10/21/04 17	10/19/04 35
Acenaphthylene	ug/Kg	04/18/03 27	10/20/04 22	04/25/03 14	10/21/04 14	10/19/04 28
2,6-Dinitrotoluene	ug/Kg	04/18/03 29	10/20/04 16	04/16/03 32	10/21/04 16	10/19/04 33
3-Nitroaniline	ug/Kg	04/18/03 21	10/20/04 17	04/25/03 16	10/21/04 26	10/19/04 25
2,4-Dinitrophenol	ug/Kg	04/18/03 170	10/20/04 28	04/16/03 200	10/21/04 25	10/19/04 45
Dibenzofuran	ug/Kg	04/18/03 22	10/20/04 32	04/16/03 24	10/21/04 16	10/19/04 34
Diethylphthalate	ug/Kg	04/18/03 24	10/20/04 29	04/16/03 27	10/21/04 21	10/19/04 38
Fluorene	ug/Kg	04/18/03 21	10/20/04 31	04/25/03 15	10/21/04 20	10/19/04 38
4-Chlorophenyl-phenylether	ug/Kg	04/18/03 31	10/20/04 32	04/16/03 25	10/21/04 17	10/19/04 36
4-Nitroaniline	ug/Kg	04/18/03 33	10/20/04 25	04/16/03 30	10/21/04 16	10/19/04 38
4,6-Dinitro-2-methylphenol	ug/Kg	04/18/03 240	10/20/04 52	04/16/03 230	10/21/04 40	10/19/04 80
N-Nitrosodiphenylamine	ug/Kg	04/18/03 23	10/20/04 33	04/16/03 34	10/21/04 25	10/19/04 36
Azobenzene	ug/Kg	04/18/03 19	10/20/04 34	04/16/03 29	10/21/04 17	10/19/04 46

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
4-Bromophenyl-phenylether	ug/Kg	04/18/03 40	10/20/04 34	04/16/03 25	10/21/04 21	10/19/04 30
Hexachlorobenzene	ug/Kg	04/18/03 24	10/20/04 43	04/16/03 25	10/21/04 28	10/19/04 32
Phenanthrene	ug/Kg	04/18/03 24	10/20/04 30	04/25/03 13	10/21/04 18	10/19/04 37
Anthracene	ug/Kg	04/18/03 28	10/20/04 26	04/25/03 14	10/21/04 9.5	10/19/04 29
Di-n-butylphthalate	ug/Kg	04/18/03 33	10/20/04 34	04/16/03 37	10/21/04 17	10/19/04 39
Fluoranthene	ug/Kg	04/18/03 31	10/20/04 32	04/25/03 12	10/21/04 22	10/19/04 36
Benzidine	ug/Kg	04/28/03 80	05/02/03 33			11/19/02 140
Butylbenzylphthalate	ug/Kg	04/18/03 31	10/20/04 25	04/16/03 28	10/21/04 22	10/19/04 38
3,3'-Dichlorobenzidine	ug/Kg	04/18/03 44	10/20/04 18	04/16/03 49	10/21/04 27	10/19/04 24
Benzo(a)anthracene	ug/Kg	04/18/03 23	10/20/04 25	04/25/03 11	10/21/04 23	10/19/04 32
Chrysene	ug/Kg	04/18/03 28	10/20/04 35	04/25/03 13	10/21/04 17	10/19/04 30
bis(2-Ethylhexyl)phthalate	ug/Kg	04/18/03 26	10/20/04 17	04/16/03 28	10/21/04 16	10/19/04 33
Di-n-octylphthalate	ug/Kg	04/18/03 21	10/20/04 10	04/16/03 29	10/21/04 13	10/19/04 39
Benzo(b)fluoranthene	ug/Kg	04/18/03 21	10/20/04 42	04/25/03 12	10/21/04 24	10/19/04 29
Benzo(k)fluoranthene	ug/Kg	04/18/03 27	10/20/04 22	04/25/03 9.2	10/21/04 37	10/19/04 43
Benzo(a)pyrene	ug/Kg	04/28/03 21	10/20/04 23	04/25/03 11	10/21/04 13	10/19/04 27
Indeno(1,2,3-cd)pyrene	ug/Kg	04/18/03 31	10/20/04 39	04/25/03 14	10/21/04 14	10/19/04 37
Dibenz(a,h)anthracene	ug/Kg	04/28/03 21	10/20/04 25	04/25/03 14	10/21/04 23	10/19/04 35
Benzo(g,h,i)perylene	ug/Kg	04/18/03 24	10/20/04 23	04/25/03 14	10/21/04 17	10/19/04 38

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX130[0.5]	Batch#:	95134
Lab ID:	175037-003	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/06/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.60
beta-BHC	ND	1.8	0.54
gamma-BHC	ND	1.8	0.61
delta-BHC	ND	1.8	0.63
Heptachlor	ND	1.8	0.55
Aldrin	ND	1.8	0.60
Heptachlor epoxide	ND	1.8	0.66
Endosulfan I	ND	1.8	0.78
Dieldrin	ND	3.4	1.5
4,4'-DDE	ND	3.4	1.6
Endrin	ND	3.4	1.7
Endosulfan II	ND	3.4	1.7
Endosulfan sulfate	ND	3.4	1.7
4,4'-DDD	ND	3.4	1.5
Endrin ketone	ND #	3.4	1.3
4,4'-DDT	ND	3.4	1.7
Chlordane (Technical)	ND	31	5.2
alpha-Chlordane	ND	1.8	0.74
gamma-Chlordane	ND	1.8	0.74
Methoxychlor	ND	18	10
Toxaphene	ND	62	12

Surrogate	%REC	Limits
TCMX	86	65-135
Decachlorobiphenyl	94	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX131[0.5]	Batch#:	95134
Lab ID:	175037-004	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/05/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.61
beta-BHC	ND	1.8	0.55
gamma-BHC	ND	1.8	0.61
delta-BHC	ND	1.8	0.65
Heptachlor	ND	1.8	0.55
Aldrin	ND	1.8	0.60
Heptachlor epoxide	ND	1.8	0.68
Endosulfan I	ND	1.8	0.79
Dieldrin	ND	3.5	1.6
4,4'-DDE	ND	3.5	1.7
Endrin	ND	3.5	1.7
Endosulfan II	ND	3.5	1.7
Endosulfan sulfate	ND	3.5	1.8
4,4'-DDD	ND	3.5	1.6
Endrin ketone	ND	3.5	1.7
4,4'-DDT	ND	3.5	1.8
Chlordane (Technical)	ND	31	3.2
alpha-Chlordane	ND	1.8	0.75
gamma-Chlordane	ND	1.8	0.76
Methoxychlor	ND	18	10
Toxaphene	ND	63	11

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP100104A	Batch#:	95134
Lab ID:	175037-005	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/05/04
Diln Fac:	1.000		

Moisture: 5%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.62
beta-BHC	ND	1.8	0.56
gamma-BHC	ND	1.8	0.62
delta-BHC	ND	1.8	0.65
Heptachlor	ND	1.8	0.57
Aldrin	ND	1.8	0.62
Heptachlor epoxide	ND	1.8	0.68
Endosulfan I	ND	1.8	0.80
Dieldrin	ND	3.5	1.6
4,4'-DDE	ND	3.5	1.7
Endrin	ND	3.5	1.7
Endosulfan II	ND	3.5	1.8
Endosulfan sulfate	ND	3.5	1.8
4,4'-DDD	ND	3.5	1.6
Endrin ketone	ND	3.5	1.8
4,4'-DDT	ND	3.5	1.8
Chlordane (Technical)	ND	32	3.3
alpha-Chlordane	ND	1.8	0.77
gamma-Chlordane	ND	1.8	0.77
Methoxychlor	ND	18	10
Toxaphene	ND	64	12

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	121	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX132[0.5]	Batch#:	95134
Lab ID:	175037-006	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/05/04
Diln Fac:	1.000		

Moisture: 5%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.62
beta-BHC	ND	1.8	0.56
gamma-BHC	ND	1.8	0.62
delta-BHC	ND	1.8	0.65
Heptachlor	ND	1.8	0.56
Aldrin	ND	1.8	0.61
Heptachlor epoxide	ND	1.8	0.68
Endosulfan I	ND	1.8	0.80
Dieldrin	ND	3.5	1.6
4,4'-DDE	ND	3.5	1.7
Endrin	ND	3.5	1.7
Endosulfan II	ND	3.5	1.7
Endosulfan sulfate	ND	3.5	1.8
4,4'-DDD	ND	3.5	1.6
Endrin ketone	ND	3.5	1.7
4,4'-DDT	ND	3.5	1.8
Chlordane (Technical)	ND	32	3.3
alpha-Chlordane	ND	1.8	0.76
gamma-Chlordane	ND	1.8	0.76
Methoxychlor	ND	18	10
Toxaphene	ND	63	12

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	91	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC266762	Batch#:	95134
Matrix:	Miscell.	Prepared:	10/04/04
Units:	ug/Kg	Analyzed:	10/04/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.58
beta-BHC	ND	1.7	0.52
gamma-BHC	ND	1.7	0.58
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.53
Aldrin	ND	1.7	0.57
Heptachlor epoxide	ND	1.7	0.64
Endosulfan I	ND	1.7	0.75
Dieldrin	ND	3.3	1.5
4,4'-DDE	ND	3.3	1.5
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.6
Endosulfan sulfate	ND	3.3	1.7
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.6
4,4'-DDT	ND	3.3	1.7
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.71
gamma-Chlordane	ND	1.7	0.71
Methoxychlor	ND	17	9.7
Toxaphene	ND	59	11

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	103	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC266763	Batch#:	95134
Matrix:	Miscell.	Prepared:	10/04/04
Units:	ug/Kg	Analyzed:	10/04/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.76	12.51	75	65-135
Heptachlor	16.76	13.57	81	65-135
Aldrin	16.76	12.55	75	65-135
Dieldrin	16.76	12.84	77	65-135
Endrin	16.76	14.68	88	65-135
4,4'-DDT	16.76	14.94	89	65-135

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	93	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	95134
MSS Lab ID:	175031-013	Sampled:	09/30/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/04/04
Basis:	as received	Analyzed:	10/06/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC266764

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5300	16.76	13.17	79	65-135
Heptachlor	<0.6800	16.76	14.12	84	65-135
Aldrin	<0.5600	16.76	12.52	75	65-135
Dieldrin	<1.300	16.76	12.61	75	65-135
Endrin	<1.700	16.76	13.94	83	65-135
4,4'-DDT	<1.600	16.76	13.62	81	65-135

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	72	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC266765

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.73	13.60	81	65-135	3	35
Heptachlor	16.73	14.06	84	65-135	0	35
Aldrin	16.73	12.53	75	65-135	0	35
Dieldrin	16.73	12.53	75	65-135	1	35
Endrin	16.73	13.93	83	65-135	0	35
4,4'-DDT	16.73	13.73	82	65-135	1	35

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	79	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: RH
Calnum: 804386835001 Name: Type: (normal) Date: 24-SEP-2004 19:42 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	268_011	804386835011	level_1	24-SEP-2004 19:42	04WS1628
2	268_012	804386835012	level_2	24-SEP-2004 20:12	04WS1629
3	268_013	804386835013	level_3	24-SEP-2004 20:41	04WS1630
4	268_014	804386835014	level_4	24-SEP-2004 21:11	04WS1632
5	268_015	804386835015	level_5	24-SEP-2004 21:40	04WS1633
6	268_016	804386835016	level_6	24-SEP-2004 22:10	04WS1634
7	268_017	804386835017	level_7	24-SEP-2004 22:39	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	15271	14674	14146	14031	14024	14239	15323	AVRG	R		6.882E-5		pg	14530	4	0.995	20	
gamma-BHC	A	13968	13437	12814	12662	12584	12658	13707	AVRG	R		7.623E-5		pg	13119	4	0.995	20	
beta-BHC	A	6295.5	6009.2	5633.5	5467.7	5375.7	5099.2	5131.8	AVRG	R		1.794E-4		pg	5573.2	8	0.995	20	
delta-BHC	A	13984	13485	12651	12583	12597	12791	13803	AVRG	R		7.618E-5		pg	13128	5	0.995	20	
Heptachlor	A	10742	11032	10349	10348	10444	10593	11807	AVRG	R		9.294E-5		pg	10759	5	0.995	20	
Aldrin	A	13142	12677	11845	11568	11496	11552	12450	AVRG	R		8.262E-5		pg	12104	5	0.995	20	
Heptachlor epoxide	A	12568	11976	11087	10729	10683	10604	11318	AVRG	R		8.865E-5		pg	11281	7	0.995	20	
gamma-Chlordane	A	12367	11938	11066	10810	10861	10866	11817	AVRG	R		8.780E-5		pg	11389	6	0.995	20	
alpha-Chlordane	A	12233	11708	10649	10454	10450	10435	11269	AVRG	R		9.068E-5		pg	11028	7	0.995	20	
4,4'-DDE	A	11534	11199	10298	10508	10721	11282	10824	AVRG	R		9.166E-5		pg	10910	4	0.995	20	
Endosulfan I	A	11639	11081	10134	9933.7	9845.1	9679.3	10366	AVRG	R		9.632E-5		pg	10383	7	0.995	20	
Dieldrin	A	12128	11811	10813	10946	11049	11465	10838	AVRG	R		8.855E-5		pg	11293	5	0.995	20	
Endrin	A	9399.2	9177.9	8197.9	8328.7	8462.9	8829.2	8752.8	AVRG	R		1.145E-4		pg	8735.5	5	0.995	20	
4,4'-DDD	A	10252	9861.5	9102.3	8961.9	9145.6	9522.0	9266.8	AVRG	R		1.059E-4		pg	9444.6	5	0.995	20	
Endosulfan II	A	10850	10344	9281.4	9250.5	9375.4	9711.9	9437.1	AVRG	R		1.026E-4		pg	9750.1	6	0.995	20	
4,4'-DDT	A	7468.4	7650.7	6659.9	7371.2	7563.7	8268.3	8602.3	AVRG	R		1.306E-4		pg	7654.9	8	0.995	20	
Methoxychlor	A	3536.6	3543.0	3013.6	3484.3	3686.5	3476.4	2916.8	AVRG	R		2.959E-4		pg	3379.6	9	0.995	20	
Endosulfan sulfate	A	9547.0	9205.5	8130.8	8096.4	8234.5	8448.2	8646.6	AVRG	R		1.161E-4		pg	8615.6	7	0.995	20	
Endrin ketone	A	11591	11170	9943.1	10028	10237	10521	9903.6	AVRG	R		9.538E-5		pg	10485	6	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: RH
Calnum: 804386835001 Name: Type: (normal) Date: 24-SEP-2004 19:42 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
TCMX	A	10469	9815.3	9247.1	8921.1	8936.6	8937.5	9317.2	AVRG	R		1.066E-4		pg	9377.7	6	0.995	20	
Decachlorobiphenyl	A	7331.3	7035.5	5833.5	6201.0	6384.4	6706.6	7004.4	AVRG	R		1.505E-4		pg	6642.4	8	0.995	20	
alpha-BHC	B	15012	15067	13950	14313	13608	14155	14061	AVRG	R		6.988E-5		pg	14309	4	0.995	20	
gamma-BHC	B	13836	13808	12694	12838	12237	12591	12564	AVRG	R		7.729E-5		pg	12938	5	0.995	20	
beta-BHC	B	6696.0	6470.9	5799.4	5717.1	5408.1	5362.5	5080.4	AVRG	R		1.727E-4		pg	5790.6	10	0.995	20	
delta-BHC	B	13963	13896	12597	12790	12229	12703	12577	AVRG	R		7.713E-5		pg	12965	5	0.995	20	
Heptachlor	B	8035.2	8598.2	8248.4	8692.0	8346.5	8906.9	9105.9	AVRG	R		1.168E-4		pg	8561.9	4	0.995	20	
Aldrin	B	13084	13242	11958	12044	11433	11735	11620	AVRG	R		8.224E-5		pg	12159	6	0.995	20	
Heptachlor epoxide	B	12392	12377	11040	10640	10483	10566	10395	AVRG	R		8.987E-5		pg	11128	8	0.995	20	
gamma-Chlordane	B	12618	12628	11285	11303	10822	11120	11030	AVRG	R		8.663E-5		pg	11544	7	0.995	20	
alpha-Chlordane	B	12459	12279	10866	10856	10320	10615	10503	AVRG	R		8.986E-5		pg	11128	8	0.995	20	
4,4'-DDE	B	11817	11948	10605	10897	10456	11040	9844.3	AVRG	R		9.137E-5		pg	10944	7	0.995	20	
Endosulfan I	B	11671	11551	10233	10201	9728.8	9892.4	9709.0	AVRG	R		9.591E-5		pg	10427	8	0.995	20	
Dieldrin	B	12228	12294	10872	11050	10558	11045	9670.7	AVRG	R		9.007E-5		pg	11102	8	0.995	20	
Endrin	B	8835.8	8960.5	7844.1	8129.4	7682.1	8222.9	7492.0	AVRG	R		1.224E-4		pg	8166.7	7	0.995	20	
4,4'-DDD	B	10150	10192	8973.2	9022.6	8660.5	9106.6	8158.2	AVRG	R		1.089E-4		pg	9180.4	8	0.995	20	
Endosulfan II	B	10942	10795	9392.5	9414.3	8996.9	9503.5	8394.8	AVRG	R		1.038E-4		pg	9634.2	10	0.995	20	
4,4'-DDT	B	6465.8	6706.4	5963.5	6586.2	6283.8	7438.4	6943.3	AVRG	R		1.509E-4		pg	6626.8	7	0.995	20	
Methoxychlor	B	3409.5	3358.6	2911.6	3139.3	2992.8	3121.4	2493.3	AVRG	R		3.267E-4		pg	3060.9	10	0.995	20	
Endosulfan sulfate	B	9945.8	9718.8	8273.6	8415.6	7972.1	8712.2	7943.8	AVRG	R		1.148E-4		pg	8711.7	9	0.995	20	
Endrin ketone	B	12188	11819	10060	10027	9557.8	10130	8577.2	AVRG	R		9.674E-5		pg	10337	12	0.995	20	
TCMX	B	10356	10190	9230.0	9250.7	8805.2	9055.8	8629.3	AVRG	R		1.068E-4		pg	9359.5	7	0.995	20	
Decachlorobiphenyl	B	7700.1	6946.7	5834.8	5688.5	5402.1	6005.4	5141.2	AVRG	R		1.639E-4		pg	6102.7	15	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	6		20	
EPA 8081A	B	22	8		20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
alpha-BHC	A	804386835020	25-SEP-2004	25.000	24.968	pg	0	15	
gamma-BHC	A	804386835020	25-SEP-2004	25.000	25.254	pg	1	15	
beta-BHC	A	804386835020	25-SEP-2004	25.000	24.997	pg	0	15	
delta-BHC	A	804386835020	25-SEP-2004	25.000	25.847	pg	3	15	
Heptachlor	A	804386835020	25-SEP-2004	25.000	26.362	pg	5	15	
Aldrin	A	804386835020	25-SEP-2004	25.000	25.689	pg	3	15	
Heptachlor epoxide	A	804386835020	25-SEP-2004	25.000	24.926	pg	0	15	
gamma-Chlordane	A	804386835020	25-SEP-2004	25.000	24.767	pg	-1	15	
alpha-Chlordane	A	804386835020	25-SEP-2004	25.000	25.110	pg	0	15	
4,4'-DDE	A	804386835020	25-SEP-2004	25.000	25.483	pg	2	15	
Endosulfan I	A	804386835020	25-SEP-2004	25.000	25.514	pg	2	15	
Dieldrin	A	804386835020	25-SEP-2004	25.000	25.815	pg	3	15	
Endrin	A	804386835020	25-SEP-2004	25.000	26.147	pg	5	15	
4,4'-DDD	A	804386835020	25-SEP-2004	25.000	24.774	pg	-1	15	
Endosulfan II	A	804386835020	25-SEP-2004	25.000	25.903	pg	4	15	
4,4'-DDT	A	804386835020	25-SEP-2004	25.000	28.834	pg	15	15	
Methoxychlor	A	804386835020	25-SEP-2004	25.000	32.350	pg	29	15	v+ ***
Endosulfan sulfate	A	804386835020	25-SEP-2004	25.000	25.946	pg	4	15	
Endrin ketone	A	804386835020	25-SEP-2004	25.000	25.447	pg	2	15	
TCMX	A	804386835020	25-SEP-2004	25.000	27.366	pg	9	15	
Decachlorobiphenyl	A	804386835020	25-SEP-2004	25.000	24.671	pg	-1	15	
alpha-BHC	B	804386835020	25-SEP-2004	25.000	23.748	pg	-5	15	
gamma-BHC	B	804386835020	25-SEP-2004	25.000	23.941	pg	-4	15	
beta-BHC	B	804386835020	25-SEP-2004	25.000	23.357	pg	-7	15	
delta-BHC	B	804386835020	25-SEP-2004	25.000	24.562	pg	-2	15	
Heptachlor	B	804386835020	25-SEP-2004	25.000	25.199	pg	1	15	
Aldrin	B	804386835020	25-SEP-2004	25.000	24.498	pg	-2	15	
Heptachlor epoxide	B	804386835020	25-SEP-2004	25.000	23.866	pg	-5	15	
gamma-Chlordane	B	804386835020	25-SEP-2004	25.000	23.533	pg	-6	15	
alpha-Chlordane	B	804386835020	25-SEP-2004	25.000	24.033	pg	-4	15	
4,4'-DDE	B	804386835020	25-SEP-2004	25.000	24.646	pg	-1	15	
Endosulfan I	B	804386835020	25-SEP-2004	25.000	24.408	pg	-2	15	
Dieldrin	B	804386835020	25-SEP-2004	25.000	24.721	pg	-1	15	
Endrin	B	804386835020	25-SEP-2004	25.000	25.045	pg	0	15	
4,4'-DDD	B	804386835020	25-SEP-2004	25.000	24.404	pg	-2	15	
Endosulfan II	B	804386835020	25-SEP-2004	25.000	24.731	pg	-1	15	
4,4'-DDT	B	804386835020	25-SEP-2004	25.000	25.297	pg	1	15	
Methoxychlor	B	804386835020	25-SEP-2004	25.000	28.578	pg	14	15	
Endosulfan sulfate	B	804386835020	25-SEP-2004	25.000	23.947	pg	-4	15	
Endrin ketone	B	804386835020	25-SEP-2004	25.000	24.014	pg	-4	15	
TCMX	B	804386835020	25-SEP-2004	25.000	26.302	pg	5	15	
Decachlorobiphenyl	B	804386835020	25-SEP-2004	25.000	22.473	pg	-10	15	

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	4	15	
EPA 8081A	B	22	4	15	

+=high bias v=ICV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804401276008 Run Name: Injected: 04-OCT-2004 15:56
Filename: 278_008 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	442856.99
Endrin aldehyde	A	14895.73
Endrin ketone	A	15401.04

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	898166.7
4,4'-DDE	A	14771.46
4,4'-DDD	A	10403.79

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	396696.44
Endrin aldehyde	B	14349.7
Endrin ketone	B	22498.41

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	667757.79
4,4'-DDE	B	5192.05
4,4'-DDD	B	8943.87

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804401276023 Run Name: Injected: 05-OCT-2004 00:35
Filename: 278_023 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	421968.33
Endrin aldehyde	A	7756.28
Endrin ketone	A	11253.37

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	793790.9
4,4'-DDE	A	7202.46
4,4'-DDD	A	20964.56

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	373365.41
Endrin aldehyde	B	14283.33
Endrin ketone	B	49025.52

Endrin Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	644454.47
4,4'-DDE	B	3744.5
4,4'-DDD	B	37165.12

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804401276039 Run Name: Injected: 05-OCT-2004 08:32
Filename: 278_039 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	394136.05
Endrin aldehyde	A	5642.13
Endrin ketone	A	11849.1

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	651880.32
4,4'-DDE	A	5363.55
4,4'-DDD	A	44351.58

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	406236
Endrin aldehyde	B	13996.2
Endrin ketone	B	52432.38

Endrin Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	715585.34
4,4'-DDE	B	3847.86
4,4'-DDD	B	45867.7

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804401276054 Run Name: Injected: 05-OCT-2004 19:38
Filename: 278_054 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	402153.74
Endrin aldehyde	A	6738.69
Endrin ketone	A	13597.45

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	709952.82
4,4'-DDE	A	4802.62
4,4'-DDD	A	36265.64

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	392418.36
Endrin aldehyde	B	12375.43
Endrin ketone	B	39431.39

Endrin Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	676594.33
4,4'-DDE	B	3400
4,4'-DDD	B	37142.69

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804401276071 Run Name: Injected: 06-OCT-2004 04:05
Filename: 278_071 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	411466.33
Endrin aldehyde	A	14845.28
Endrin ketone	A	22769.52

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	766326.47
4,4'-DDE	A	4841
4,4'-DDD	A	40172.63

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	397840.27
Endrin aldehyde	B	20798.9
Endrin ketone	B	65217

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	712293.01
4,4'-DDE	B	4263
4,4'-DDD	B	61648.49

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804401276087 Run Name: Injected: 06-OCT-2004 19:02
Filename: 278_087 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	411659.38
Endrin aldehyde	A	5816.11
Endrin ketone	A	20327

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	664997.38
4,4'-DDE	A	3759.18
4,4'-DDD	A	72145.09

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	383364.93
Endrin aldehyde	B	13366.25
Endrin ketone	B	69513.03

Endrin Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	606992.39
4,4'-DDE	B	3485
4,4'-DDD	B	85804.3

4,4'-DDT Breakdown %: 13
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804401276010
Calnum : 804386835001
Standards: 04WS1632

Run Name : ccv
Filename : 278_010
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 04-OCT-2004 16:55
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	15471	20.00000	21.29629	pg	6	15	
gamma-BHC	A	13119	13983	20.00000	21.31749	pg	7	15	
beta-BHC	A	5573.2	6062.3	20.00000	21.75497	pg	9	15	
delta-BHC	A	13128	13504	20.00000	20.57280	pg	3	15	
Heptachlor	A	10759	12113	20.00000	22.51590	pg	13	15	
Aldrin	A	12104	12698	20.00000	20.98079	pg	5	15	
Heptachlor epoxide	A	11281	11844	20.00000	20.99874	pg	5	15	
gamma-Chlordane	A	11389	11845	20.00000	20.80099	pg	4	15	
alpha-Chlordane	A	11028	11433	20.00000	20.73401	pg	4	15	
4,4'-DDE	A	10910	11531	40.00000	42.27730	pg	6	15	
Endosulfan I	A	10383	10750	20.00000	20.70743	pg	4	15	
Dieldrin	A	11293	11784	40.00000	41.73817	pg	4	15	
Endrin	A	8735.5	9485.0	40.00000	43.43203	pg	9	15	
4,4'-DDD	A	9444.6	9031.7	40.00000	38.25148	pg	-4	15	
Endosulfan II	A	9750.1	9945.1	40.00000	40.80001	pg	2	15	
4,4'-DDT	A	7654.9	8910.7	40.00000	46.56173	pg	16	15	c+ ***
Methoxychlor	A	3379.6	4098.1	200.0000	242.5187	pg	21	15	c+ ***
Endosulfan sulfate	A	8615.6	8273.6	40.00000	38.41253	pg	-4	15	
Endrin ketone	A	10485	10206	40.00000	38.93758	pg	-3	15	
TCMX	A	9377.7	9939.0	40.00000	42.39386	pg	6	15	
Decachlorobiphenyl	A	6642.4	6171.6	40.00000	37.16493	pg	-7	15	
alpha-BHC	B	14309	13922	20.00000	19.45834	pg	-3	15	
gamma-BHC	B	12938	12607	20.00000	19.48838	pg	-3	15	
beta-BHC	B	5790.6	5690.8	20.00000	19.65515	pg	-2	15	
delta-BHC	B	12965	12683	20.00000	19.56458	pg	-2	15	
Heptachlor	B	8561.9	8504.2	20.00000	19.86525	pg	-1	15	
Aldrin	B	12159	11810	20.00000	19.42468	pg	-3	15	
Heptachlor epoxide	B	11128	10916	20.00000	19.61959	pg	-2	15	
gamma-Chlordane	B	11544	11235	20.00000	19.46455	pg	-3	15	
alpha-Chlordane	B	11128	10799	20.00000	19.40853	pg	-3	15	
4,4'-DDE	B	10944	10857	40.00000	39.68193	pg	-1	15	
Endosulfan I	B	10427	10183	20.00000	19.53204	pg	-2	15	
Dieldrin	B	11102	10916	40.00000	39.32875	pg	-2	15	
Endrin	B	8166.7	8842.7	40.00000	43.31120	pg	8	15	
4,4'-DDD	B	9180.4	8520.6	40.00000	37.12519	pg	-7	15	
Endosulfan II	B	9634.2	9461.9	40.00000	39.28469	pg	-2	15	
4,4'-DDT	B	6626.8	7274.1	40.00000	43.90706	pg	10	15	
Methoxychlor	B	3060.9	3315.9	200.0000	216.6572	pg	8	15	
Endosulfan sulfate	B	8711.7	8371.7	40.00000	38.43906	pg	-4	15	
Endrin ketone	B	10337	9663.7	40.00000	37.39485	pg	-7	15	
TCMX	B	9359.5	8898.9	40.00000	38.03123	pg	-5	15	
Decachlorobiphenyl	B	6102.7	6237.1	40.00000	40.88104	pg	2	15	
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				4	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804401276024
Calnum : 804386835001
Standards: 04WS1630

Run Name : pest_3
Filename : 278_024
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 05-OCT-2004 01:05
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	14858	10.00000	10.22571	pg	2	15	
gamma-BHC	A	13119	13440	10.00000	10.24486	pg	2	15	
beta-BHC	A	5573.2	5941.2	10.00000	10.66027	pg	7	15	
delta-BHC	A	13128	12841	10.00000	9.781608	pg	-2	15	
Heptachlor	A	10759	11793	10.00000	10.96072	pg	10	15	
Aldrin	A	12104	12352	10.00000	10.20465	pg	2	15	
Heptachlor epoxide	A	11281	11504	10.00000	10.19803	pg	2	15	
gamma-Chlordane	A	11389	11495	10.00000	10.09330	pg	1	15	
alpha-Chlordane	A	11028	11161	10.00000	10.12052	pg	1	15	
4,4'-DDE	A	10910	10765	20.00000	19.73584	pg	-1	15	
Endosulfan I	A	10383	10469	10.00000	10.08345	pg	1	15	
Dieldrin	A	11293	11187	20.00000	19.81271	pg	-1	15	
Endrin	A	8735.5	9596.3	20.00000	21.97071	pg	10	15	
4,4'-DDD	A	9444.6	8901.4	20.00000	18.84972	pg	-6	15	
Endosulfan II	A	9750.1	9611.6	20.00000	19.71586	pg	-1	15	
4,4'-DDT	A	7654.9	8475.5	20.00000	22.14385	pg	11	15	
Methoxychlor	A	3379.6	3793.7	100.0000	112.2543	pg	12	15	
Endosulfan sulfate	A	8615.6	8216.2	20.00000	19.07289	pg	-5	15	
Endrin ketone	A	10485	9980.5	20.00000	19.03793	pg	-5	15	
TCMX	A	9377.7	9724.6	20.00000	20.73988	pg	4	15	
Decachlorobiphenyl	A	6642.4	6150.4	20.00000	18.51860	pg	-7	15	
alpha-BHC	B	14309	13940	10.00000	9.741824	pg	-3	15	
gamma-BHC	B	12938	12675	10.00000	9.796849	pg	-2	15	
beta-BHC	B	5790.6	5865.8	10.00000	10.12990	pg	1	15	
delta-BHC	B	12965	12686	10.00000	9.785076	pg	-2	15	
Heptachlor	B	8561.9	8235.2	10.00000	9.618447	pg	-4	15	
Aldrin	B	12159	12011	10.00000	9.878158	pg	-1	15	
Heptachlor epoxide	B	11128	11203	10.00000	10.06812	pg	1	15	
gamma-Chlordane	B	11544	11465	10.00000	9.931566	pg	-1	15	
alpha-Chlordane	B	11128	11212	10.00000	10.07537	pg	1	15	
4,4'-DDE	B	10944	10932	20.00000	19.97807	pg	0	15	
Endosulfan I	B	10427	10602	10.00000	10.16863	pg	2	15	
Dieldrin	B	11102	11098	20.00000	19.99122	pg	0	15	
Endrin	B	8166.7	8188.8	20.00000	20.05417	pg	0	15	
4,4'-DDD	B	9180.4	9245.8	20.00000	20.14246	pg	1	15	
Endosulfan II	B	9634.2	9716.4	20.00000	20.17073	pg	1	15	
4,4'-DDT	B	6626.8	6436.0	20.00000	19.42431	pg	-3	15	
Methoxychlor	B	3060.9	3103.7	100.0000	101.3959	pg	1	15	
Endosulfan sulfate	B	8711.7	8589.0	20.00000	19.71829	pg	-1	15	
Endrin ketone	B	10337	10657	20.00000	20.61872	pg	3	15	
TCMX	B	9359.5	9122.7	20.00000	19.49393	pg	-3	15	
Decachlorobiphenyl	B	6102.7	6212.0	20.00000	20.35813	pg	2	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				1	15	

CONTINUING CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804401276040
Calnum : 804386835001
Standards: 04WS1632

Run Name : pest_4
Filename : 278_040
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 05-OCT-2004 09:01
Caltype :

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	14113	20.00000	19.42643	pg	-3	15	
gamma-BHC	A	13119	12622	20.00000	19.24336	pg	-4	15	
beta-BHC	A	5573.2	5413.7	20.00000	19.42741	pg	-3	15	
delta-BHC	A	13128	12149	20.00000	18.50907	pg	-7	15	
Heptachlor	A	10759	11112	20.00000	20.65525	pg	3	15	
Aldrin	A	12104	11311	20.00000	18.68882	pg	-7	15	
Heptachlor epoxide	A	11281	10527	20.00000	18.66335	pg	-7	15	
gamma-Chlordane	A	11389	10432	20.00000	18.32000	pg	-8	15	
alpha-Chlordane	A	11028	10038	20.00000	18.20430	pg	-9	15	
4,4'-DDE	A	10910	9952.2	40.00000	36.48971	pg	-9	15	
Endosulfan I	A	10383	9605.2	20.00000	18.50267	pg	-7	15	
Dieldrin	A	11293	10280	40.00000	36.41155	pg	-9	15	
Endrin	A	8735.5	8775.9	40.00000	40.18488	pg	0	15	
4,4'-DDD	A	9444.6	8169.2	40.00000	34.59852	pg	-14	15	
Endosulfan II	A	9750.1	8553.6	40.00000	35.09129	pg	-12	15	
4,4'-DDT	A	7654.9	7149.2	40.00000	37.35770	pg	-7	15	
Methoxychlor	A	3379.6	3314.6	200.0000	196.1544	pg	-2	15	
Endosulfan sulfate	A	8615.6	7216.7	40.00000	33.50563	pg	-16	15	c- ***
Endrin ketone	A	10485	8580.8	40.00000	32.73593	pg	-18	15	c- ***
TCMX	A	9377.7	8844.8	40.00000	37.72684	pg	-6	15	
Decachlorobiphenyl	A	6642.4	4872.8	40.00000	29.34364	pg	-27	15	c-
alpha-BHC	B	14309	14164	20.00000	19.79616	pg	-1	15	
gamma-BHC	B	12938	12861	20.00000	19.88116	pg	-1	15	
beta-BHC	B	5790.6	5768.7	20.00000	19.92443	pg	0	15	
delta-BHC	B	12965	12838	20.00000	19.80399	pg	-1	15	
Heptachlor	B	8561.9	8885.6	20.00000	20.75631	pg	4	15	
Aldrin	B	12159	11912	20.00000	19.59292	pg	-2	15	
Heptachlor epoxide	B	11128	10965	20.00000	19.70738	pg	-1	15	
gamma-Chlordane	B	11544	11254	20.00000	19.49791	pg	-3	15	
alpha-Chlordane	B	11128	10917	20.00000	19.61968	pg	-2	15	
4,4'-DDE	B	10944	10717	40.00000	39.16851	pg	-2	15	
Endosulfan I	B	10427	10278	20.00000	19.71577	pg	-1	15	
Dieldrin	B	11102	10881	40.00000	39.20259	pg	-2	15	
Endrin	B	8166.7	8382.1	40.00000	41.05497	pg	3	15	
4,4'-DDD	B	9180.4	8962.2	40.00000	39.04942	pg	-2	15	
Endosulfan II	B	9634.2	9322.3	40.00000	38.70500	pg	-3	15	
4,4'-DDT	B	6626.8	6636.8	40.00000	40.06076	pg	0	15	
Methoxychlor	B	3060.9	3131.2	200.0000	204.5888	pg	2	15	
Endosulfan sulfate	B	8711.7	8213.1	40.00000	37.71069	pg	-6	15	
Endrin ketone	B	10337	9860.9	40.00000	38.15797	pg	-5	15	
TCMX	B	9359.5	8607.2	40.00000	36.78469	pg	-8	15	
Decachlorobiphenyl	B	6102.7	5494.0	40.00000	36.01013	pg	-10	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				3	15	

-=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804401276056
Calnum : 804386835001
Standards: 04WS1630

Run Name : ccv
Filename : 278_056
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 05-OCT-2004 20:38
Caltype :

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	14520	10.00000	9.993314	pg	0	15	
gamma-BHC	A	13119	13201	10.00000	10.06282	pg	1	15	
beta-BHC	A	5573.2	5829.9	10.00000	10.46064	pg	5	15	
delta-BHC	A	13128	12921	10.00000	9.842642	pg	-2	15	
Heptachlor	A	10759	11637	10.00000	10.81592	pg	8	15	
Aldrin	A	12104	12236	10.00000	10.10906	pg	1	15	
Heptachlor epoxide	A	11281	11481	10.00000	10.17807	pg	2	15	
gamma-Chlordane	A	11389	11416	10.00000	10.02346	pg	0	15	
alpha-Chlordane	A	11028	11131	10.00000	10.09280	pg	1	15	
4,4'-DDE	A	10910	10721	20.00000	19.65472	pg	-2	15	
Endosulfan I	A	10383	10486	10.00000	10.09930	pg	1	15	
Dieldrin	A	11293	11184	20.00000	19.80659	pg	-1	15	
Endrin	A	8735.5	9232.2	20.00000	21.13716	pg	6	15	
4,4'-DDD	A	9444.6	9134.2	20.00000	19.34274	pg	-3	15	
Endosulfan II	A	9750.1	9628.3	20.00000	19.75021	pg	-1	15	
4,4'-DDT	A	7654.9	7706.5	20.00000	20.13483	pg	1	15	
Methoxychlor	A	3379.6	3573.5	100.0000	105.7367	pg	6	15	
Endosulfan sulfate	A	8615.6	8300.5	20.00000	19.26873	pg	-4	15	
Endrin ketone	A	10485	10022	20.00000	19.11700	pg	-4	15	
TCMX	A	9377.7	9497.7	20.00000	20.25585	pg	1	15	
Decachlorobiphenyl	A	6642.4	5872.3	20.00000	17.68123	pg	-12	15	
alpha-BHC	B	14309	12996	10.00000	9.082080	pg	-9	15	
gamma-BHC	B	12938	11857	10.00000	9.164204	pg	-8	15	
beta-BHC	B	5790.6	5503.0	10.00000	9.503300	pg	-5	15	
delta-BHC	B	12965	11912	10.00000	9.187574	pg	-8	15	
Heptachlor	B	8561.9	7737.1	10.00000	9.036740	pg	-10	15	
Aldrin	B	12159	11247	10.00000	9.249759	pg	-8	15	
Heptachlor epoxide	B	11128	10523	10.00000	9.456779	pg	-5	15	
gamma-Chlordane	B	11544	10750	10.00000	9.312180	pg	-7	15	
alpha-Chlordane	B	11128	10388	10.00000	9.334800	pg	-7	15	
4,4'-DDE	B	10944	10301	20.00000	18.82465	pg	-6	15	
Endosulfan I	B	10427	9774.0	10.00000	9.374041	pg	-6	15	
Dieldrin	B	11102	10467	20.00000	18.85530	pg	-6	15	
Endrin	B	8166.7	7596.8	20.00000	18.60424	pg	-7	15	
4,4'-DDD	B	9180.4	8928.6	20.00000	19.45147	pg	-3	15	
Endosulfan II	B	9634.2	9157.5	20.00000	19.01044	pg	-5	15	
4,4'-DDT	B	6626.8	5881.1	20.00000	17.74938	pg	-11	15	
Methoxychlor	B	3060.9	2922.2	100.0000	95.46749	pg	-5	15	
Endosulfan sulfate	B	8711.7	8191.4	20.00000	18.80562	pg	-6	15	
Endrin ketone	B	10337	10181	20.00000	19.69773	pg	-2	15	
TCMX	B	9359.5	8706.8	20.00000	18.60512	pg	-7	15	
Decachlorobiphenyl	B	6102.7	5911.8	20.00000	19.37433	pg	-3	15	
Average EPA 8081A	A		(count=22)				3	15	
Average EPA 8081A	B		(count=22)				6	15	

CONTINUING CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804401276072
Calnum : 804386835001
Standards: 04WS1632

Run Name : pest_4
Filename : 278_072
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 06-OCT-2004 04:35
Caltype :

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	15294	20.00000	21.05183	pg	5	15	
gamma-BHC	A	13119	13737	20.00000	20.94254	pg	5	15	
beta-BHC	A	5573.2	5884.0	20.00000	21.11520	pg	6	15	
delta-BHC	A	13128	13345	20.00000	20.33107	pg	2	15	
Heptachlor	A	10759	12082	20.00000	22.45825	pg	12	15	
Aldrin	A	12104	12379	20.00000	20.45386	pg	2	15	
Heptachlor epoxide	A	11281	11495	20.00000	20.38061	pg	2	15	
gamma-Chlordane	A	11389	11463	20.00000	20.13006	pg	1	15	
alpha-Chlordane	A	11028	11027	20.00000	19.99717	pg	0	15	
4,4'-DDE	A	10910	10940	40.00000	40.11305	pg	0	15	
Endosulfan I	A	10383	10425	20.00000	20.08244	pg	0	15	
Dieldrin	A	11293	11492	40.00000	40.70671	pg	2	15	
Endrin	A	8735.5	9579.5	40.00000	43.86466	pg	10	15	
4,4'-DDD	A	9444.6	8990.9	40.00000	38.07852	pg	-5	15	
Endosulfan II	A	9750.1	9621.3	40.00000	39.47167	pg	-1	15	
4,4'-DDT	A	7654.9	8286.6	40.00000	43.30068	pg	8	15	
Methoxychlor	A	3379.6	3864.8	200.0000	228.7135	pg	14	15	
Endosulfan sulfate	A	8615.6	8153.2	40.00000	37.85325	pg	-5	15	
Endrin ketone	A	10485	9839.8	40.00000	37.53918	pg	-6	15	
TCMX	A	9377.7	9731.9	40.00000	41.51050	pg	4	15	
Decachlorobiphenyl	A	6642.4	5575.1	40.00000	33.57284	pg	-16	15	c-
alpha-BHC	B	14309	14249	20.00000	19.91618	pg	0	15	
gamma-BHC	B	12938	12946	20.00000	20.01138	pg	0	15	
beta-BHC	B	5790.6	5821.6	20.00000	20.10691	pg	1	15	
delta-BHC	B	12965	13092	20.00000	20.19547	pg	1	15	
Heptachlor	B	8561.9	8826.0	20.00000	20.61713	pg	3	15	
Aldrin	B	12159	12153	20.00000	19.98946	pg	0	15	
Heptachlor epoxide	B	11128	11197	20.00000	20.12512	pg	1	15	
gamma-Chlordane	B	11544	11623	20.00000	20.13756	pg	1	15	
alpha-Chlordane	B	11128	11091	20.00000	19.93337	pg	0	15	
4,4'-DDE	B	10944	11164	40.00000	40.80483	pg	2	15	
Endosulfan I	B	10427	10461	20.00000	20.06629	pg	0	15	
Dieldrin	B	11102	11405	40.00000	41.08843	pg	3	15	
Endrin	B	8166.7	8624.5	40.00000	42.24248	pg	6	15	
4,4'-DDD	B	9180.4	9650.5	40.00000	42.04809	pg	5	15	
Endosulfan II	B	9634.2	9920.4	40.00000	41.18848	pg	3	15	
4,4'-DDT	B	6626.8	6778.2	40.00000	40.91403	pg	2	15	
Methoxychlor	B	3060.9	3417.4	200.0000	223.2942	pg	12	15	
Endosulfan sulfate	B	8711.7	8877.3	40.00000	40.76028	pg	2	15	
Endrin ketone	B	10337	10841	40.00000	41.95020	pg	5	15	
TCMX	B	9359.5	9190.8	40.00000	39.27891	pg	-2	15	
Decachlorobiphenyl	B	6102.7	6225.1	40.00000	40.80232	pg	2	15	
Average EPA 8081A	A		(count=22)				5	15	
Average EPA 8081A	B		(count=22)				2	15	

-=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804401276088 Filename : 278_088 Injected : 06-OCT-2004 19:31
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :
Standards: 04WS1630

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	14617	10.00000	10.06014	pg	1	15	
gamma-BHC	A	13119	13110	10.00000	9.993811	pg	0	15	
beta-BHC	A	5573.2	5641.0	10.00000	10.12168	pg	1	15	
delta-BHC	A	13128	12354	10.00000	9.411047	pg	-6	15	
Heptachlor	A	10759	11013	10.00000	10.23636	pg	2	15	
Aldrin	A	12104	11787	10.00000	9.738163	pg	-3	15	
Heptachlor epoxide	A	11281	10915	10.00000	9.676254	pg	-3	15	
gamma-Chlordane	A	11389	10771	10.00000	9.456975	pg	-5	15	
alpha-Chlordane	A	11028	10420	10.00000	9.448494	pg	-6	15	
4,4'-DDE	A	10910	9953.3	20.00000	18.24696	pg	-9	15	
Endosulfan I	A	10383	9880.1	10.00000	9.516104	pg	-5	15	
Dieldrin	A	11293	10406	20.00000	18.42902	pg	-8	15	
Endrin	A	8735.5	8524.5	20.00000	19.51688	pg	-2	15	
4,4'-DDD	A	9444.6	8818.3	20.00000	18.67379	pg	-7	15	
Endosulfan II	A	9750.1	8754.9	20.00000	17.95858	pg	-10	15	
4,4'-DDT	A	7654.9	6076.2	20.00000	15.87517	pg	-21	15	c- ***
Methoxychlor	A	3379.6	2765.3	100.0000	81.82432	pg	-18	15	c- ***
Endosulfan sulfate	A	8615.6	7416.6	20.00000	17.21677	pg	-14	15	
Endrin ketone	A	10485	8682.2	20.00000	16.56152	pg	-17	15	c- ***
TCMX	A	9377.7	9588.1	20.00000	20.44861	pg	2	15	
Decachlorobiphenyl	A	6642.4	4778.1	20.00000	14.38677	pg	-28	15	c-
alpha-BHC	B	14309	14139	10.00000	9.880883	pg	-1	15	
gamma-BHC	B	12938	12761	10.00000	9.863061	pg	-1	15	
beta-BHC	B	5790.6	5869.9	10.00000	10.13700	pg	1	15	
delta-BHC	B	12965	12761	10.00000	9.842799	pg	-2	15	
Heptachlor	B	8561.9	8481.6	10.00000	9.906203	pg	-1	15	
Aldrin	B	12159	12058	10.00000	9.916693	pg	-1	15	
Heptachlor epoxide	B	11128	11178	10.00000	10.04519	pg	0	15	
gamma-Chlordane	B	11544	11493	10.00000	9.956227	pg	0	15	
alpha-Chlordane	B	11128	11208	10.00000	10.07196	pg	1	15	
4,4'-DDE	B	10944	10977	20.00000	20.06019	pg	0	15	
Endosulfan I	B	10427	10594	10.00000	10.16075	pg	2	15	
Dieldrin	B	11102	11094	20.00000	19.98461	pg	0	15	
Endrin	B	8166.7	8063.5	20.00000	19.74727	pg	-1	15	
4,4'-DDD	B	9180.4	9657.7	20.00000	21.03980	pg	5	15	
Endosulfan II	B	9634.2	9833.5	20.00000	20.41386	pg	2	15	
4,4'-DDT	B	6626.8	5915.9	20.00000	17.85455	pg	-11	15	
Methoxychlor	B	3060.9	3092.5	100.0000	101.0308	pg	1	15	
Endosulfan sulfate	B	8711.7	8769.2	20.00000	20.13202	pg	1	15	
Endrin ketone	B	10337	10934	20.00000	21.15441	pg	6	15	
TCMX	B	9359.5	9380.0	20.00000	20.04366	pg	0	15	
Decachlorobiphenyl	B	6102.7	6402.5	20.00000	20.98249	pg	5	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				2	15	

-=low bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804386835 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 24-SEP-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
005	268_005	PEM				24-SEP-2004 15:15	1.0			1			1	
006	268_006	CCV	pest_4			24-SEP-2004 15:44	1.0						2	
007	268_007	X	ccv			24-SEP-2004 16:14	1.0						2	
008	268_008	X	ccv			24-SEP-2004 16:43	1.0						2	
010	268_010	X	hex			24-SEP-2004 19:13	1.0							
011	268_011	ICAL	level_1			24-SEP-2004 19:42	1.0						3	
012	268_012	ICAL	level_2			24-SEP-2004 20:12	1.0						4	
013	268_013	ICAL	level_3			24-SEP-2004 20:41	1.0						5	
014	268_014	ICAL	level_4			24-SEP-2004 21:11	1.0						2	
015	268_015	ICAL	level_5			24-SEP-2004 21:40	1.0						6	
016	268_016	ICAL	level_6			24-SEP-2004 22:10	1.0						7	
017	268_017	ICAL	level_7			24-SEP-2004 22:39	1.0						8	
018	268_018	X	hex			24-SEP-2004 23:08	1.0							
020	268_020	ICV	icv			25-SEP-2004 00:07	1.0	1		1			9	
021	268_021	X				25-SEP-2004 00:37	1.0			1			9	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1628 4=04WS1629 5=04WS1630 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584

SEQUENCE SUMMARY FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804401276 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 04-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
008	278_008	PEM				04-OCT-2004 15:56	1.0	1.0			1	1	
009	278_009	X	pest_4			04-OCT-2004 16:26	1.0					2	
010	278_010	CCV	ccv			04-OCT-2004 16:55	1.0	1.0	2		1	2	
012	278_012	BLANK	QC266671	95109	Miscel	04-OCT-2004 19:08	1.0	0.6618			1		
013	278_013	BLANK	QC266762	95134	Miscel	04-OCT-2004 19:38	1.0	0.6601			1		
014	278_014	LCS	QC266672	95109	Miscel	04-OCT-2004 20:08	1.0	0.6658	2		1		
015	278_015	LCS	QC266763	95134	Miscel	04-OCT-2004 20:37	1.0	0.6702	2		1		
016	278_016	SAMPLE	175023-001	95109	Soil	04-OCT-2004 21:07	1.0	0.6662		1	1		
017	278_017	SAMPLE	175023-002	95109	Soil	04-OCT-2004 21:37	1.0	0.6711			1		
018	278_018	SAMPLE	175023-003	95109	Soil	04-OCT-2004 22:07	1.0	0.6631			1		
019	278_019	SAMPLE	175024-001	95109	Soil	04-OCT-2004 22:36	1.0	0.6645			1		
020	278_020	SAMPLE	175024-002	95109	Soil	04-OCT-2004 23:06	1.0	0.6649			1		
021	278_021	SAMPLE	175024-003	95109	Soil	04-OCT-2004 23:36	2.0	0.6592			1		
023	278_023	PEM				05-OCT-2004 00:35	1.0	1.0			1	1	
024	278_024	CCV	pest_3			05-OCT-2004 01:05	1.0	1.0			1	3	
025	278_025	X	ccv			05-OCT-2004 01:35	1.0					3	
026	278_026	X	ccv			05-OCT-2004 02:05	1.0					4	
029	278_029	SAMPLE	175037-004	95134	Soil	05-OCT-2004 03:34	1.0	0.6711	2		1		
030	278_030	SAMPLE	175037-005	95134	Soil	05-OCT-2004 04:04	1.0	0.6739	2		1		
031	278_031	SAMPLE	175037-006	95134	Soil	05-OCT-2004 04:34	1.0	0.6689	2		1		
032	278_032	SAMPLE	174993-001	95109	Soil	05-OCT-2004 05:03	1.0	0.6596	1	1	1		
033	278_033	SAMPLE	174965-024	95109	Soil	05-OCT-2004 05:33	5.0	0.6566	1	1	1		
034	278_034	SAMPLE	174965-025	95109	Soil	05-OCT-2004 06:03	5.0	0.6592	1	1	1		
035	278_035	SAMPLE	174965-026	95109	Soil	05-OCT-2004 06:33	40.0	0.6627	1		1		
036	278_036	SAMPLE	175022-004	95109	Soil	05-OCT-2004 07:02	1.0	0.6631	1		1		
037	278_037	SAMPLE	175022-005	95109	Soil	05-OCT-2004 07:32	1.0	0.6609	1		1		
039	278_039	PEM				05-OCT-2004 08:32	1.0	1.0			1	1	
040	278_040	CCV	pest_4			05-OCT-2004 09:01	1.0	1.0	2		1	2	
041	278_041	X	ccv			05-OCT-2004 09:31	1.0					2	
042	278_042	X	pem			05-OCT-2004 10:01	1.0					1	
044	278_044	SAMPLE	174957-001	95058	Miscel	05-OCT-2004 11:49	2.0	0.668	1		1		

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

SEQUENCE SUMMARY FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804401276 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 04-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
045	278_045	MSS	174957-011	95058	Miscel	05-OCT-2004 12:19	2.0	0.6702	2		1		
046	278_046	SAMPLE	174957-022	95058	Miscel	05-OCT-2004 12:49	1.0	0.6702	1		1		
047	278_047	SAMPLE	174957-023	95058	Miscel	05-OCT-2004 13:19	1.0	0.6671	1		1		
048	278_048	MS	QC266463	95058	Miscel	05-OCT-2004 13:48	2.0	0.672	2		1		
049	278_049	MSD	QC266464	95058	Miscel	05-OCT-2004 14:18	2.0	0.6588	2	37	1		
050	278_050	SAMPLE	174998-005	95109	Miscel	05-OCT-2004 16:56	1.0	0.6702	1		1		
051	278_051	SAMPLE	174998-014	95109	Miscel	05-OCT-2004 17:26	2.0	0.6667	1		1		
052	278_052	SAMPLE	174998-024	95109	Miscel	05-OCT-2004 17:56	1.0	0.6592	1		1		
053	278_053	MSS	174998-032	95109	Miscel	05-OCT-2004 18:25	1.0	0.6729	2		1		
054	278_054	PEM				05-OCT-2004 19:38	1.0	1.0			1	1	
055	278_055	X	pest_3			05-OCT-2004 20:08	1.0					3	
056	278_056	CCV	ccv			05-OCT-2004 20:38	1.0	1.0			1	3	
057	278_057	X	ccv			05-OCT-2004 21:08	1.0					4	
058	278_058	X	pem			05-OCT-2004 21:38	1.0					1	
060	278_060	LCS	QC266329	95023	Filtra	05-OCT-2004 22:37	1.0	0.01	2	39	1		2:XYL246=530.894
061	278_061	SAMPLE	175042-001	95134	Soil	05-OCT-2004 23:07	2.0	0.6734			1		
062	278_062	SAMPLE	175042-002	95134	Soil	05-OCT-2004 23:37	2.0	0.6761			1		
063	278_063	SAMPLE	175031-009	95134	Soil	06-OCT-2004 00:07	2.0	0.6739			1		
064	278_064	SAMPLE	175031-010	95134	Soil	06-OCT-2004 00:36	1.0	0.664		2	1		
065	278_065	MSS	175031-013	95134	Soil	06-OCT-2004 01:06	1.0	0.6716			1		
066	278_066	MS	QC266673	95109	Miscel	06-OCT-2004 01:36	1.0	0.6592			1		
067	278_067	MSD	QC266674	95109	Miscel	06-OCT-2004 02:06	1.0	0.6729			1		
068	278_068	MS	QC266764	95134	Soil	06-OCT-2004 02:35	1.0	0.6702			1		
069	278_069	MSD	QC266765	95134	Soil	06-OCT-2004 03:05	1.0	0.6693			1		
071	278_071	PEM				06-OCT-2004 04:05	1.0	1.0			1	1	
072	278_072	CCV	pest_4			06-OCT-2004 04:35	1.0	1.0			1	2	
073	278_073	X	ccv			06-OCT-2004 05:05	1.0					2	
074	278_074	X	pem			06-OCT-2004 05:34	1.0				1	1	
076	278_076	SAMPLE	175037-003	95134	Soil	06-OCT-2004 06:34	1.0	0.6748	3		1		
077	278_077	SAMPLE	175015-001	95134	Soil	06-OCT-2004 07:04	1.0						
078	278_078	SAMPLE	175015-002	95134	Soil	06-OCT-2004 07:34	1.0						

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

SEQUENCE SUMMARY FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804401276 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 04-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
079	278_079	SAMPLE	175015-003	95134	Soil	06-OCT-2004 08:04	1.0						
080	278_080	SAMPLE	175015-004	95134	Soil	06-OCT-2004 08:34	2.0						
081	278_081	SAMPLE	175015-005	95134	Soil	06-OCT-2004 09:03	50.0						
082	278_082	SAMPLE	175015-005	95134	Soil	06-OCT-2004 09:33	50.0						
083	278_083	SAMPLE	175015-007	95134	Soil	06-OCT-2004 10:03	1.0						
084	278_084	SAMPLE	175015-008	95134	Soil	06-OCT-2004 16:41	1.0						
085	278_085	SAMPLE	175015-009	95134	Soil	06-OCT-2004 17:10	1.0						
087	278_087	PEM				06-OCT-2004 19:02	1.0	1.0			1	1	
088	278_088	CCV	pest_3			06-OCT-2004 19:31	1.0	1.0	3		1	3	
089	278_089	X	ccv			06-OCT-2004 20:01	1.0					3	
090	278_090	X	ccv			06-OCT-2004 20:31	1.0					4	
091	278_091	X	pem			06-OCT-2004 21:01	1.0				1	1	
093	278_093	BLANK	QC266976	95196	Soil	06-OCT-2004 22:01	1.0	0.6623	3		1		
094	278_094	LCS	QC266977	95196	Soil	06-OCT-2004 22:31	1.0	0.6636	3	2	1		
095	278_095	SAMPLE	175065-001	95196	Soil	06-OCT-2004 23:01	1.0	0.6631	2		1		
096	278_096	SAMPLE	175065-002	95196	Soil	06-OCT-2004 23:30	1.0	0.6579	2		1		
097	278_097	SAMPLE	175065-003	95196	Soil	07-OCT-2004 00:00	1.0	0.6636	2		1		
098	278_098	SAMPLE	175065-004	95196	Soil	07-OCT-2004 00:30	1.0	0.6711	2		1		
099	278_099	MSS	175026-034	95196	Miscel	07-OCT-2004 01:00	1.0	0.6684	3		1		
100	278_100	SAMPLE	175031-005	95196	Soil	07-OCT-2004 01:30	1.0	0.6596	2		1		
101	278_101	MS	QC266978	95196	Miscel	07-OCT-2004 02:00	1.0	0.6757	3		1		
102	278_102	MSD	QC266979	95196	Miscel	07-OCT-2004 02:30	1.0	0.6627	3		1		
104	278_104	PEM				07-OCT-2004 03:29	1.0	1.0			1	1	
105	278_105	X	pest_4			07-OCT-2004 03:59	1.0					2	
106	278_106	CCV	ccv			07-OCT-2004 04:29	1.0	1.0			1	2	
107	278_107	X	pem			07-OCT-2004 04:59	1.0				1	1	
109	278_109	SAMPLE	175032-008	95196	Soil	07-OCT-2004 05:59	1.0						
110	278_110	SAMPLE	175032-011	95196	Soil	07-OCT-2004 06:29	40.0	0.657	2		1		
120	278_120	PEM				07-OCT-2004 11:27	1.0	1.0			1	1	
121	278_121	X	pest_3			07-OCT-2004 11:57	1.0					3	
122	278_122	CCV	ccv			07-OCT-2004 12:27	1.0	1.0	2		1	3	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

SEQUENCE SUMMARY FOR 175037 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804401276 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 04-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
123	278_123	X	ccv			07-OCT-2004 12:57	1.0				4	
124	278_124	X	pem			07-OCT-2004 13:27	1.0			1	1	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

Reporting Summary for 175037 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175037-003	alpha-BHC	GC23	B	10/06/04 06:34
175037-003	beta-BHC	GC23	B	10/06/04 06:34
175037-003	gamma-BHC	GC23	B	10/06/04 06:34
175037-003	delta-BHC	GC23	B	10/06/04 06:34
175037-003	Heptachlor	GC23	B	10/06/04 06:34
175037-003	Aldrin	GC23	B	10/06/04 06:34
175037-003	Heptachlor epoxide	GC23	B	10/06/04 06:34
175037-003	Endosulfan I	GC23	B	10/06/04 06:34
175037-003	Dieldrin	GC23	B	10/06/04 06:34
175037-003	4,4'-DDE	GC23	B	10/06/04 06:34
175037-003	Endrin	GC23	A	10/06/04 06:34
175037-003	Endosulfan II	GC23	B	10/06/04 06:34
175037-003	Endosulfan sulfate	GC23	B	10/06/04 06:34
175037-003	4,4'-DDD	GC23	B	10/06/04 06:34
175037-003	Endrin ketone	GC23	A	10/06/04 06:34
175037-003	4,4'-DDT	GC23	B	10/06/04 06:34
175037-003	Chlordane (Technical)	GC23	B	10/06/04 06:34
175037-003	alpha-Chlordane	GC23	B	10/06/04 06:34
175037-003	gamma-Chlordane	GC23	B	10/06/04 06:34
175037-003	Methoxychlor	GC23	B	10/06/04 06:34
175037-003	Toxaphene	GC23	B	10/06/04 06:34
175037-003	TCMX	GC23	B	10/06/04 06:34
175037-003	Decachlorobiphenyl	GC23	B	10/06/04 06:34
175037-004	alpha-BHC	GC23	B	10/05/04 03:34
175037-004	beta-BHC	GC23	B	10/05/04 03:34
175037-004	gamma-BHC	GC23	B	10/05/04 03:34
175037-004	delta-BHC	GC23	B	10/05/04 03:34
175037-004	Heptachlor	GC23	B	10/05/04 03:34
175037-004	Aldrin	GC23	B	10/05/04 03:34
175037-004	Heptachlor epoxide	GC23	B	10/05/04 03:34
175037-004	Endosulfan I	GC23	B	10/05/04 03:34
175037-004	Dieldrin	GC23	B	10/05/04 03:34
175037-004	4,4'-DDE	GC23	B	10/05/04 03:34
175037-004	Endrin	GC23	B	10/05/04 03:34
175037-004	Endosulfan II	GC23	B	10/05/04 03:34
175037-004	Endosulfan sulfate	GC23	B	10/05/04 03:34
175037-004	4,4'-DDD	GC23	B	10/05/04 03:34
175037-004	Endrin ketone	GC23	B	10/05/04 03:34
175037-004	4,4'-DDT	GC23	B	10/05/04 03:34
175037-004	Chlordane (Technical)	GC23	A	10/05/04 03:34
175037-004	alpha-Chlordane	GC23	B	10/05/04 03:34
175037-004	gamma-Chlordane	GC23	B	10/05/04 03:34
175037-004	Methoxychlor	GC23	B	10/05/04 03:34
175037-004	Toxaphene	GC23	A	10/05/04 03:34
175037-004	TCMX	GC23	B	10/05/04 03:34
175037-004	Decachlorobiphenyl	GC23	B	10/05/04 03:34
175037-005	alpha-BHC	GC23	B	10/05/04 04:04
175037-005	beta-BHC	GC23	B	10/05/04 04:04
175037-005	gamma-BHC	GC23	B	10/05/04 04:04
175037-005	delta-BHC	GC23	B	10/05/04 04:04
175037-005	Heptachlor	GC23	B	10/05/04 04:04
175037-005	Aldrin	GC23	B	10/05/04 04:04

Reporting Summary for 175037 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175037-005	Heptachlor epoxide	GC23	B	10/05/04 04:04
175037-005	Endosulfan I	GC23	B	10/05/04 04:04
175037-005	Dieldrin	GC23	B	10/05/04 04:04
175037-005	4,4'-DDE	GC23	B	10/05/04 04:04
175037-005	Endrin	GC23	B	10/05/04 04:04
175037-005	Endosulfan II	GC23	B	10/05/04 04:04
175037-005	Endosulfan sulfate	GC23	B	10/05/04 04:04
175037-005	4,4'-DDD	GC23	B	10/05/04 04:04
175037-005	Endrin ketone	GC23	B	10/05/04 04:04
175037-005	4,4'-DDT	GC23	B	10/05/04 04:04
175037-005	Chlordane (Technical)	GC23	A	10/05/04 04:04
175037-005	alpha-Chlordane	GC23	B	10/05/04 04:04
175037-005	gamma-Chlordane	GC23	B	10/05/04 04:04
175037-005	Methoxychlor	GC23	B	10/05/04 04:04
175037-005	Toxaphene	GC23	A	10/05/04 04:04
175037-005	TCMX	GC23	B	10/05/04 04:04
175037-005	Decachlorobiphenyl	GC23	B	10/05/04 04:04
175037-006	alpha-BHC	GC23	B	10/05/04 04:34
175037-006	beta-BHC	GC23	B	10/05/04 04:34
175037-006	gamma-BHC	GC23	B	10/05/04 04:34
175037-006	delta-BHC	GC23	B	10/05/04 04:34
175037-006	Heptachlor	GC23	B	10/05/04 04:34
175037-006	Aldrin	GC23	B	10/05/04 04:34
175037-006	Heptachlor epoxide	GC23	B	10/05/04 04:34
175037-006	Endosulfan I	GC23	B	10/05/04 04:34
175037-006	Dieldrin	GC23	B	10/05/04 04:34
175037-006	4,4'-DDE	GC23	B	10/05/04 04:34
175037-006	Endrin	GC23	B	10/05/04 04:34
175037-006	Endosulfan II	GC23	B	10/05/04 04:34
175037-006	Endosulfan sulfate	GC23	B	10/05/04 04:34
175037-006	4,4'-DDD	GC23	B	10/05/04 04:34
175037-006	Endrin ketone	GC23	B	10/05/04 04:34
175037-006	4,4'-DDT	GC23	B	10/05/04 04:34
175037-006	Chlordane (Technical)	GC23	A	10/05/04 04:34
175037-006	alpha-Chlordane	GC23	B	10/05/04 04:34
175037-006	gamma-Chlordane	GC23	B	10/05/04 04:34
175037-006	Methoxychlor	GC23	B	10/05/04 04:34
175037-006	Toxaphene	GC23	A	10/05/04 04:34
175037-006	TCMX	GC23	B	10/05/04 04:34
175037-006	Decachlorobiphenyl	GC23	B	10/05/04 04:34
QC266762	alpha-BHC	GC23	B	10/04/04 19:38
QC266762	beta-BHC	GC23	B	10/04/04 19:38
QC266762	gamma-BHC	GC23	B	10/04/04 19:38
QC266762	delta-BHC	GC23	B	10/04/04 19:38
QC266762	Heptachlor	GC23	B	10/04/04 19:38
QC266762	Aldrin	GC23	B	10/04/04 19:38
QC266762	Heptachlor epoxide	GC23	B	10/04/04 19:38
QC266762	Endosulfan I	GC23	B	10/04/04 19:38
QC266762	Dieldrin	GC23	B	10/04/04 19:38
QC266762	4,4'-DDE	GC23	B	10/04/04 19:38
QC266762	Endrin	GC23	B	10/04/04 19:38
QC266762	Endosulfan II	GC23	B	10/04/04 19:38

Reporting Summary for 175037 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC266762	Endosulfan sulfate	GC23	B	10/04/04 19:38
QC266762	4,4'-DDD	GC23	B	10/04/04 19:38
QC266762	Endrin ketone	GC23	B	10/04/04 19:38
QC266762	4,4'-DDT	GC23	B	10/04/04 19:38
QC266762	Chlordane (Technical)	GC23	A	10/04/04 19:38
QC266762	alpha-Chlordane	GC23	B	10/04/04 19:38
QC266762	gamma-Chlordane	GC23	B	10/04/04 19:38
QC266762	Methoxychlor	GC23	B	10/04/04 19:38
QC266762	Toxaphene	GC23	A	10/04/04 19:38
QC266762	TCMX	GC23	B	10/04/04 19:38
QC266762	Decachlorobiphenyl	GC23	B	10/04/04 19:38
QC266763	gamma-BHC	GC23	B	10/04/04 20:37
QC266763	Heptachlor	GC23	B	10/04/04 20:37
QC266763	Aldrin	GC23	B	10/04/04 20:37
QC266763	Dieldrin	GC23	B	10/04/04 20:37
QC266763	Endrin	GC23	B	10/04/04 20:37
QC266763	4,4'-DDT	GC23	B	10/04/04 20:37
QC266763	TCMX	GC23	B	10/04/04 20:37
QC266763	Decachlorobiphenyl	GC23	B	10/04/04 20:37
QC266764	gamma-BHC	GC23	A	10/06/04 02:35
QC266764	Heptachlor	GC23	A	10/06/04 02:35
QC266764	Aldrin	GC23	A	10/06/04 02:35
QC266764	Dieldrin	GC23	A	10/06/04 02:35
QC266764	Endrin	GC23	A	10/06/04 02:35
QC266764	4,4'-DDT	GC23	A	10/06/04 02:35
QC266764	TCMX	GC23	A	10/06/04 02:35
QC266764	Decachlorobiphenyl	GC23	A	10/06/04 02:35
QC266765	gamma-BHC	GC23	A	10/06/04 03:05
QC266765	Heptachlor	GC23	A	10/06/04 03:05
QC266765	Aldrin	GC23	A	10/06/04 03:05
QC266765	Dieldrin	GC23	A	10/06/04 03:05
QC266765	Endrin	GC23	A	10/06/04 03:05
QC266765	4,4'-DDT	GC23	A	10/06/04 03:05
QC266765	TCMX	GC23	A	10/06/04 03:05
QC266765	Decachlorobiphenyl	GC23	A	10/06/04 03:05

Curtis & Tompkins Laboratories **Sample Preparation Summary** **05-OCT-2004 15:12**

Batch Number : 95134
Date Extracted: 04-OCT-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343B
Spike #2 ID : 04WS1551C
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175015-001		Tetra Tech EMI	Soil	15.02	g	10	0.665779	1		.01	0		8081	3620B	
175015-002		Tetra Tech EMI	Soil	14.92	g	10	0.670241	1		.01	0		8081	3620B	
175015-003		Tetra Tech EMI	Soil	14.81	g	10	0.675219	1		.01	0		8081	3620B	
175015-004 2x		Tetra Tech EMI	Soil	15.19	g	10	0.658328	1		.01	0		8081	3620B	
175015-005 50x		Tetra Tech EMI	Soil	15.09	g	10	0.662691	1		.01	0		8081	3620B	
175015-006 4x		Tetra Tech EMI	Soil	14.78	g	10	0.676590	1		.01	0		8081	3620B	
175015-007		Tetra Tech EMI	Soil	14.91	g	10	0.670691	1		.01	0		8081	3620B	
175015-008		Tetra Tech EMI	Soil	15.04	g	10	0.664894	1		.01	0		8081	3620B	
175015-009		Tetra Tech EMI	Soil	14.84	g	10	0.673854	1		.01	0		8081	3620B	
175026-005	still need form	URS Corporation	Miscell.	15.2	g	10	0.657895	1		.01	0		8081	3620B	
175026-014 5X		URS Corporation	Miscell.	14.86	g	10	0.672948	1		.01	0		8081	3620B	
175031-009 2x		URS Corporation	Soil	14.84	g	10	0.673854	1		.01	0		8081	3620B	
175031-010		URS Corporation	Soil	15.06	g	10	0.664011	1		.01	0		8081	3620B	
175031-013		URS Corporation	Soil	14.89	g	10	0.671592	1		.01	0		8081	3620B	MSS
175037-003		Treadwell & Rollo	Soil	14.82	g	10	0.674764	1		.01	0		8081	3620B	
175037-004		Treadwell & Rollo	Soil	14.9	g	10	0.671141	1		.01	0		8081	3620B	
175037-005		Treadwell & Rollo	Soil	14.84	g	10	0.673854	1		.01	0		8081	3620B	
175037-006		Treadwell & Rollo	Soil	14.95	g	10	0.668896	1		.01	0		8081	3620B	
175042-001 2x		URS Corporation	Soil	14.85	g	10	0.673401	1		.01	0		8081	3620B	
175042-002 2x		URS Corporation	Soil	14.79	g	10	0.676133	1		.01	0		8081	3620B	
QC266762	MB		Miscell.	15.15	g	10	0.660066	1		.01	0		8081	3620B	
QC266763	LCS		Miscell.	14.92	g	10	0.670241	1		.01	.5		8081	3620B	
QC266764	MS of 175031-013		Soil	14.92	g	10	0.670241	1		.01	.5		8081	3620B	
QC266765	MSD of 175031-013		Soil	14.94	g	10	0.669344	1		.01	.5		8081	3620B	

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 10/5/04

Relinquished By: Jessie Mee Received By: [illegible] Date: 10/5/04

Curtis & Tompkins, Ltd.

8081 SOIL PREP LOG

BK 1965

Page 51

LIMS Batch No: 95134
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 10/4/04

Extraction Method:
- ☐ EPA 3550b Sonication
- ☒ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☒ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
175026-005	15.20	10.0	X	
↓ -014	14.86	↓	X	ppt formed
~~175031-005~~	~~15.16~~			~~JDM 10/4/04~~
175031-009	14.84	10.0		ppt formed
-010	15.06			
↓ -013	14.89			MSS; ppt formed
175037-003	14.82			
-004	14.90	10.0		
-005	14.84			
↓ -006	14.95	↓		
175042-001	14.85	10.0		
↓ -002	14.79	↓		
MB QC2606762	15.15	10.0		
LCS 63	14.92	↓		
MS 64	14.92	10.0		ppt formed
MSD ↓ 65	14.94			↓
175015-001	15.02			
-002	14.92			
-003	14.81			
-004	15.19			
-005	15.09			residue in vial; black
-006	14.78			
-007	14.91			
-008	15.04			
↓ -009	14.84	↓	↓	

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	F030132	JDM 10/4/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex 0406603	↓
0.01 mL of surrogate solution was added to all samples	04US1343B	
0.5 mL of spike solution was added to all spikes	04US1551C	
1:1 CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44148) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D24	
Soxhlets on at:	N/A	
Soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	N/A	JDM 10/5/04
Exchanged 2x with Hexane	CL917	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil	✓	↓

Jerrie Mee 10/4/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Cera Weber 10/5/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: JOM
Cleanup Date: 10/4/04

Benchbook # **BK 1991**
Page 29

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
175037-004	95134	1.0	1.0	
↓ -005	↓	↓	↓	
↓ -006				
MB QC2166762				
LCS ↓ 63				

JOM 10/4/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	Restrepo 303221-AZ	JOM 10/4/04
Florisil cartridges/ columns rinsed 3x with Hexane	CL917	↓
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	CL917	
Acetone	EM44179	
Concentrated to volumes as noted above	✓	

Jessie Mee 10/4/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

Jennifer Weeks 10/4/04
Reviewed by / Date

20B

91

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: JDM

Cleanup Date: 10/5/04

Benchbook # **BK 1991**

Page 31

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
175042-002	95134	1.0	1.0	
-001				
175015-001				
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
175031-009				
-010				
-013				
175026-005				MS
-014				
175037-003				
MS QC2667664				
MSD ↓ 65	↓	↓	↓	

JDM 10/5/04

☒ Extracts were cleaned up using Florisil cartridges

Florisil cartridges/ columns rinsed 3x with Hexane

Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone

Concentrated to volumes as noted above

	Mfg & Lot # / Time / Program	Initials / Date
	Restrep 303321-AZ	JDM 10/5/04
Hexane	CL917	↓
Acetone	FM4179	
	✓	

ials / Dat

10/5/04

10/5/04

277

Continued from page

Continued on page

Carol Olson 10/5/04

PROJECT Soil Aliquot

Notebook No. BK1999

Continued From Page 81

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174988-018A	15.00	8081	
-019A	14.86		
-020A	15.23		
MS	15.15		174988-00
MSD	14.95		
LCS	15.14		F030132
MB	14.83		
175017-001	50.47	TEH	4, COMP A-D
174993-001	14.90	PCB	2, COMP A-D
175026-005A	15.20	8081	
-014A	14.86		
175031-005A	15.16	8081	
-009A Mc 1%	14.84		2, COMP A-
-014A Mc 1%	15.06		
-013A	14.89		MSS
MS	14.92		
MSD	14.94		
LCS	14.92		
MB	15.15		
175037-003A	14.82	8081	
-004A	14.90		
-005A	14.84		
-006A	Mc 1% 14.95 ~~14.95~~ ~~14.82~~		
175037-003A	50.44	TEHM	
175037-003A	30.38	8270	

Continued on Page

Read and Understood By

Michelle Cuta 10/1/84

Signed Date Signed Date

PROJECT Soil Aliquot

Notebook No. BK 1999

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175042-001	14.85	8081	4, COMP A-D
↓ -002	14.79	↓	
175402-001	14.93	PCB	
↓ -002	15.06	↓	
175402-001	50.17	TEH	
↓ -002	49.74	↓	

Continued on Page

Read and Understood By

H. Chelle Cat

Signed

10/4/04

Date

PROJECT Soil Aliquots

Notebook No. 1999

Continued From Page

Sample ID	Weight	Analysis	Comments
MB	29.71	PCB-Cong.	F030132, MDL
LCS 1	30.33		
2	30.19		
3	30.21		
4	30.15		
5	29.70		
6	29.80		
7	29.78		
8	29.82		
175015-001A	15.02	8081	
-002A	14.92		
-003A	14.81		
-004A	15.19		
-005A	15.09		
-006A	14.78		
-007A	14.91		MSS
-008A	15.04		
-009A	14.84		175015-008A
MS	14.86		↓
MSD	14.94		F030132
LCS	15.11		↓
MB	15.24		

Continued on Page

Read and Understood By

Signed: [illegible] Date: 10/4/99

Signed: _____ Date: _____

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14 A	GC14 B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/01/04
Units:	ug/Kg	Received:	10/01/04
Diln Fac:	1.000		

Field ID:	BB3EX130[0.5]	Batch#:	95189
Type:	SAMPLE	Prepared:	10/05/04
Lab ID:	175037-003	Analyzed:	10/06/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	2%		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	2.7
Aroclor-1221	ND	19	10
Aroclor-1232	ND	9.6	7.1
Aroclor-1242	ND	9.6	1.5
Aroclor-1248	ND	9.6	6.3
Aroclor-1254	ND	9.6	1.5
Aroclor-1260	ND	9.6	2.6

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	61 *	65-135

Field ID:	BB3EX131[0.5]	Batch#:	95119
Type:	SAMPLE	Prepared:	10/03/04
Lab ID:	175037-004	Analyzed:	10/05/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	4%		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	2.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.7
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	2.7

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	88	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/01/04
Units:	ug/Kg	Received:	10/01/04
Diln Fac:	1.000		

Field ID:	DUP100104A	Batch#:	95119
Type:	SAMPLE	Prepared:	10/03/04
Lab ID:	175037-005	Analyzed:	10/05/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	5%		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	2.8
Aroclor-1221	ND	20	11
Aroclor-1232	ND	10	7.2
Aroclor-1242	ND	10	2.7
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	2.7

Surrogate	%REC	Limits
TCMX	112	65-135
Decachlorobiphenyl	95	65-135

Field ID:	BB3EX132[0.5]	Batch#:	95119
Type:	SAMPLE	Prepared:	10/03/04
Lab ID:	175037-006	Analyzed:	10/05/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	5%		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	2.8
Aroclor-1221	ND	20	11
Aroclor-1232	ND	10	7.3
Aroclor-1242	ND	10	2.7
Aroclor-1248	ND	10	2.7
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	2.7

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	91	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/01/04
Units:	ug/Kg	Received:	10/01/04
Diln Fac:	1.000		

Type:	BLANK	Prepared:	10/03/04
Lab ID:	QC266694	Analyzed:	10/04/04
Basis:	as received	Cleanup Method:	EPA 3665A
Batch#:	95119		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.5	2.6
Aroclor-1221	ND	19	9.8
Aroclor-1232	ND	9.5	7.0
Aroclor-1242	ND	9.5	1.5
Aroclor-1248	ND	9.5	6.2
Aroclor-1254	ND	9.5	1.5
Aroclor-1260	ND	9.5	2.5

Surrogate	%REC	Limits
TCMX	100	65-135
Decachlorobiphenyl	82	65-135

Type:	BLANK	Prepared:	10/05/04
Lab ID:	QC266950	Analyzed:	10/05/04
Basis:	as received	Cleanup Method:	EPA 3665A
Batch#:	95189		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	2.1
Aroclor-1221	ND	19	10
Aroclor-1232	ND	9.6	6.8
Aroclor-1242	ND	9.6	2.6
Aroclor-1248	ND	9.6	2.5
Aroclor-1254	ND	9.6	2.1
Aroclor-1260	ND	9.6	2.2

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	75	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC266695	Batch#:	95119
Matrix:	Soil	Prepared:	10/03/04
Units:	ug/Kg	Analyzed:	10/04/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	166.4	160.2	96	65-135

Surrogate	%REC	Limits
TCMX	113	65-135
Decachlorobiphenyl	81	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC266951	Batch#:	95189
Matrix:	Soil	Prepared:	10/05/04
Units:	ug/Kg	Analyzed:	10/05/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	167.3	131.9	79	65-135

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	92	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	DUP100104A	Batch#:	95119
MSS Lab ID:	175037-005	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	ug/Kg	Prepared:	10/03/04
Basis:	dry	Analyzed:	10/05/04
Diln Fac:	1.000		

Type: MS
Lab ID: QC266696

Moisture: 5%
Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<2.211	176.5	145.8	83	65-135

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	91	65-135

Type: MSD
Lab ID: QC266697

Moisture: 5%
Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	175.8	143.6	82	65-135	1	35

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	91	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	95189
MSS Lab ID:	175015-007	Sampled:	09/29/04
Matrix:	Soil	Received:	09/30/04
Units:	ug/Kg	Prepared:	10/05/04
Basis:	dry	Analyzed:	10/06/04
Diln Fac:	1.000		

Type:	MS	Moisture:	17%
Lab ID:	QC266952	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<2.530	203.2	224.0	110	65-135

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	67	65-135

Type:	MSD	Moisture:	17%
Lab ID:	QC266953	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	199.5	236.6	119	65-135	7	35

Surrogate	%REC	Limits
TCMX	112	65-135
Decachlorobiphenyl	81	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254397386001 Name: Type: (normal) Date: 01-OCT-2004 23:06 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	275_010	254397386010	pcb10_2	01-OCT-2004 23:06	04WS1786
2	275_011	254397386011	pcb25_5	01-OCT-2004 23:33	04WS1787
3	275_012	254397386012	pcb100_20	02-OCT-2004 00:01	04WS1788
4	275_013	254397386013	pcb250_50	02-OCT-2004 00:29	04WS1789
5	275_014	254397386014	pcb500_100	02-OCT-2004 00:56	04WS1790
6	275_015	254397386015	pcb750_150	02-OCT-2004 01:24	04WS1791
7	275_016	254397386016	cb1k_200	02-OCT-2004 01:51	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	73.700	69.101	73.416	65.246	70.590	66.513	62.607	AVRG	R		0.014548		pg	68.739	6	.99	20	
Aroclor-1016 Peak # 2	A	138.27	113.97	126.50	97.665	109.91	110.30	96.052	AVRG	R		0.008831		pg	113.24	13	.99	20	
Aroclor-1016 Peak # 3	A	94.089	80.742	86.486	70.148	77.664	79.488	69.836	AVRG	R		0.012535		pg	79.779	11	.99	20	
Aroclor-1016 Peak # 4	A	76.667	58.775	64.392	51.815	57.080	55.882	49.768	AVRG	R		0.016893		pg	59.197	15	.99	20	
Aroclor-1016 Peak # 5	A	104.31	96.937	99.644	78.504	86.448	86.598	75.749	AVRG	R		0.011143		pg	89.741	12	.99	20	
Aroclor-1260 Peak # 1	A	189.29	165.80	175.60	131.81	139.69	146.18	125.08	AVRG	R		0.006521		pg	153.35	16	.99	20	
Aroclor-1260 Peak # 2	A	121.94	107.82	118.52	89.024	95.355	103.50	88.094	AVRG	R		0.009665		pg	103.46	13	.99	20	
Aroclor-1260 Peak # 3	A	137.24	122.19	130.87	95.289	101.25	108.61	92.850	AVRG	R		0.008880		pg	112.62	16	.99	20	
Aroclor-1260 Peak # 4	A	140.36	134.47	146.78	108.17	113.18	124.89	105.94	AVRG	R		0.008011		pg	124.83	13	.99	20	
Aroclor-1260 Peak # 5	A	305.14	285.20	304.58	219.17	225.56	258.40	217.96	AVRG	R		0.003855		pg	259.43	15	.99	20	
TCMX	A	4422.3	3825.8	3974.6	3342.5	3658.7	3656.8	3346.0	AVRG	R		2.669E-4		pg	3746.7	10	.99	20	
Decachlorobiphenyl	A	2338.8	2218.0	2301.8	1629.1	1626.8	1972.5	1683.1	AVRG	R		5.084E-4		pg	1967.1	16	.99	20	
Aroclor-1016 Peak # 1	B	87.213	80.811	64.898	68.351	80.057	62.229	60.201	AVRG	R		0.013895		pg	71.966	15	.99	20	
Aroclor-1016 Peak # 2	B	120.70	108.84	85.854	91.956	106.32	80.403	77.323	AVRG	R		0.010426		pg	95.914	17	.99	20	
Aroclor-1016 Peak # 3	B	142.61	140.68	107.32	115.07	134.39	98.945	95.587	AVRG	R		0.008387		pg	119.23	17	.99	20	
Aroclor-1016 Peak # 4	B	103.94	95.523	75.731	82.872	98.945	72.453	70.644	AVRG	R		0.011664		pg	85.730	16	.99	20	
Aroclor-1016 Peak # 5	B	108.20	113.18	88.084	95.098	113.34	81.716	79.478	AVRG	R		0.010308		pg	97.014	15	.99	20	
Aroclor-1260 Peak # 1	B	203.15	211.33	163.43	168.24	195.40	133.44	131.16	AVRG	R		0.005804		pg	172.31	19	.99	20	
Aroclor-1260 Peak # 2	B	227.89	230.46	187.70	190.86	221.79	147.17	146.33	AVRG	R		0.005177		pg	193.17	19	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254397386001 Name: Type: (normal) Date: 01-OCT-2004 23:06 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	149.70	160.06	129.05	133.12	155.02	100.76	101.20	AVRG	R		0.007536		pg	132.70	18	.99	20	
Aroclor-1260 Peak # 4	B	143.30	151.76	128.11	132.57	155.67	100.66	100.55	AVRG	R		0.007670		pg	130.38	17	.99	20	
Aroclor-1260 Peak # 5	B	345.89	385.81	323.75	329.95	391.87	252.66	249.60	AVRG	R		0.003071		pg	325.65	18	.99	20	
TCMX	B	4565.5	4621.8	3417.6	3608.9	4237.9	3301.7	3208.8	AVRG	R		2.596E-4		pg	3851.7	16	.99	20	
Decachlorobiphenyl	B	2844.6	2855.1	2435.9	2421.2	2808.2	1784.7	1709.1	AVRG	R		4.152E-4		pg	2408.4	20	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC22 Calname :
Calnum : 254397386001 Caldate : 01-OCT-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	254397386018	02-OCT-2004	250.00	275.10	pg	10	15
Aroclor-1260	A	254397386018	02-OCT-2004	250.00	274.92	pg	10	15
TCMX	A	254397386018	02-OCT-2004	50.000	48.198	pg	-4	15
Decachlorobiphenyl	A	254397386018	02-OCT-2004	50.000	49.460	pg	-1	15
Aroclor-1016	B	254397386018	02-OCT-2004	250.00	269.84	pg	8	15
Aroclor-1260	B	254397386018	02-OCT-2004	250.00	259.27	pg	4	15
TCMX	B	254397386018	02-OCT-2004	50.000	48.162	pg	-4	15
Decachlorobiphenyl	B	254397386018	02-OCT-2004	50.000	44.890	pg	-10	15

INITIAL CALIBRATION REPORT FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254401392001 Name: Type: (normal) Date: 04-OCT-2004 19:15 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	278_005	254401392005	ar1254	04-OCT-2004 19:15	04WS1809

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	84.726	AVRG	R		0.011803		pg	84.726	0	.99	20	
Aroclor-1254 Peak # 2	A	46.196	AVRG	R		0.021647		pg	46.196	0	.99	20	
Aroclor-1254 Peak # 3	A	92.612	AVRG	R		0.010798		pg	92.612	0	.99	20	
Aroclor-1254 Peak # 4	A	154.51	AVRG	R		0.006472		pg	154.51	0	.99	20	
Aroclor-1254 Peak # 5	A	109.53	AVRG	R		0.009130		pg	109.53	0	.99	20	
Aroclor-1254 Peak # 1	B	119.29	AVRG	R		0.008383		pg	119.29	0	.99	20	
Aroclor-1254 Peak # 2	B	164.24	AVRG	R		0.006089		pg	164.24	0	.99	20	
Aroclor-1254 Peak # 3	B	117.35	AVRG	R		0.008521		pg	117.35	0	.99	20	
Aroclor-1254 Peak # 4	B	205.74	AVRG	R		0.004861		pg	205.74	0	.99	20	
Aroclor-1254 Peak # 5	B	198.12	AVRG	R		0.005047		pg	198.12	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254402597001 Name: Type: (normal) Date: 05-OCT-2004 14:45 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	279_003	254402597003	ar1254	05-OCT-2004 14:45	04WS1809

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	116.21	AVRG	R		0.008605		pg	116.21	0	.99	20	
Aroclor-1254 Peak # 2	A	64.435	AVRG	R		0.015519		pg	64.435	0	.99	20	
Aroclor-1254 Peak # 3	A	128.09	AVRG	R		0.007807		pg	128.09	0	.99	20	
Aroclor-1254 Peak # 4	A	214.08	AVRG	R		0.004671		pg	214.08	0	.99	20	
Aroclor-1254 Peak # 5	A	155.02	AVRG	R		0.006451		pg	155.02	0	.99	20	
Aroclor-1254 Peak # 1	B	119.79	AVRG	R		0.008348		pg	119.79	0	.99	20	
Aroclor-1254 Peak # 2	B	163.89	AVRG	R		0.006102		pg	163.89	0	.99	20	
Aroclor-1254 Peak # 3	B	116.87	AVRG	R		0.008557		pg	116.87	0	.99	20	
Aroclor-1254 Peak # 4	B	205.02	AVRG	R		0.004878		pg	205.02	0	.99	20	
Aroclor-1254 Peak # 5	B	198.97	AVRG	R		0.005026		pg	198.97	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254403933001 Name: Type: (normal) Date: 06-OCT-2004 12:13 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	280_002	254403933002	pcb10_2	06-OCT-2004 12:13	04WS1786
2	280_003	254403933003	pcb25_5	06-OCT-2004 12:41	04WS1787
3	280_004	254403933004	pcb100_20	06-OCT-2004 13:09	04WS1788
4	280_005	254403933005	pcb250_50	06-OCT-2004 13:36	04WS1789
5	280_006	254403933006	pcb500_100	06-OCT-2004 14:04	04WS1790
6	280_007	254403933007	pcb750_150	06-OCT-2004 14:32	04WS1791
7	280_008	254403933008	cb1k_200	06-OCT-2004 14:59	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	78.096	72.392	84.669	79.518	80.165	75.987	65.382	AVRG	R		0.013055		pg	76.601	8	.99	20	
Aroclor-1016 Peak # 2	A	131.78	119.33	124.13	114.24	112.55	102.28	101.77	AVRG	R		0.008684		pg	115.15	10	.99	20	
Aroclor-1016 Peak # 3	A	92.503	85.072	86.559	81.340	79.595	73.503	72.595	AVRG	R		0.012256		pg	81.595	9	.99	20	
Aroclor-1016 Peak # 4	A	65.591	62.412	63.081	58.572	57.443	52.275	50.682	AVRG	R		0.017071		pg	58.579	10	.99	20	
Aroclor-1016 Peak # 5	A	106.34	99.232	98.270	90.515	88.399	80.442	78.725	AVRG	R		0.010905		pg	91.703	11	.99	20	
Aroclor-1260 Peak # 1	A	194.00	179.81	172.77	155.05	149.40	132.31	131.99	AVRG	R		0.006276		pg	159.33	15	.99	20	
Aroclor-1260 Peak # 2	A	117.10	114.89	117.32	107.96	105.27	93.663	94.033	AVRG	R		0.009330		pg	107.18	9	.99	20	
Aroclor-1260 Peak # 3	A	141.71	136.24	127.99	118.06	113.41	100.56	100.31	AVRG	R		0.008350		pg	119.76	14	.99	20	
Aroclor-1260 Peak # 4	A	159.38	144.74	145.25	132.69	127.16	112.62	114.07	AVRG	R		0.007479		pg	133.70	13	.99	20	
Aroclor-1260 Peak # 5	A	331.97	310.85	300.72	276.15	264.83	234.08	244.23	AVRG	R		0.003566		pg	280.40	13	.99	20	
TCMX	A	4685.0	4104.6	3997.9	3637.8	3586.8	3423.1	3479.5	AVRG	R		2.601E-4		pg	3844.9	12	.99	20	
Decachlorobiphenyl	A	2556.1	2360.6	2239.0	2126.4	2012.0	1805.3	2074.2	AVRG	R		4.613E-4		pg	2167.7	11	.99	20	
Aroclor-1016 Peak # 1	B	96.319	80.902	76.071	66.769	67.387	68.685	60.851	AVRG	R		0.013540		pg	73.855	16	.99	20	
Aroclor-1016 Peak # 2	B	113.95	104.40	99.480	86.956	87.981	87.775	76.455	AVRG	R		0.010655		pg	93.857	14	.99	20	
Aroclor-1016 Peak # 3	B	127.30	129.24	123.82	104.36	108.23	106.77	91.795	AVRG	R		0.008844		pg	113.07	12	.99	20	
Aroclor-1016 Peak # 4	B	79.600	87.676	87.959	74.596	79.014	78.902	67.297	AVRG	R		0.012612		pg	79.292	9	.99	20	
Aroclor-1016 Peak # 5	B	102.10	107.44	98.780	82.637	88.968	87.315	74.039	AVRG	R		0.010916		pg	91.611	13	.99	20	
Aroclor-1260 Peak # 1	B	180.90	186.60	171.98	136.23	148.55	141.51	116.04	AVRG	R		0.006471		pg	154.54	17	.99	20	
Aroclor-1260 Peak # 2	B	218.18	215.29	194.12	151.85	165.35	156.68	128.01	AVRG	R		0.005694		pg	175.64	19	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254403933001 Name: Type: (normal) Date: 06-OCT-2004 12:13 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	148.38	143.39	132.19	103.67	114.13	107.38	88.272	AVRG	R		0.008359		pg	119.63	19	.99	20	
Aroclor-1260 Peak # 4	B	142.80	139.56	128.29	101.99	113.86	106.44	87.546	AVRG	R		0.008532		pg	117.21	17	.99	20	
Aroclor-1260 Peak # 5	B	381.70	361.30	322.59	254.66	284.96	271.96	219.34	AVRG	R		0.003339		pg	299.50	20	.99	20	
TCMX	B	4344.8	4529.0	4123.7	3649.0	3577.4	3662.3	3345.1	AVRG	R		2.571E-4		pg	3890.2	11	.99	20	
Decachlorobiphenyl	B	2851.1	2681.1	2230.6	1791.3	1976.4	1851.1		AVRG	R		4.484E-4		pg	2230.3	20	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC22 Calname :
Calnum : 254403933001 Caldate : 06-OCT-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	254403933010	06-OCT-2004	250.00	270.80	pg	8	15
Aroclor-1260	A	254403933010	06-OCT-2004	250.00	262.83	pg	5	15
TCMX	A	254403933010	06-OCT-2004	50.000	47.589	pg	-5	15
Decachlorobiphenyl	A	254403933010	06-OCT-2004	50.000	43.770	pg	-12	15
Aroclor-1016	B	254403933010	06-OCT-2004	250.00	281.36	pg	13	15
Aroclor-1260	B	254403933010	06-OCT-2004	250.00	277.65	pg	11	15
TCMX	B	254403933010	06-OCT-2004	50.000	48.577	pg	-3	15
Decachlorobiphenyl	B	254403933010	06-OCT-2004	50.000	44.240	pg	-12	15

INITIAL CALIBRATION REPORT FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254403933002 Name: Type: (normal) Date: 06-OCT-2004 17:17 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	280_012	254403933012	ar1254	06-OCT-2004 17:17	04WS1907

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	104.75	AVRG	R		0.009546		pg	104.75	0	.99	20	
Aroclor-1254 Peak # 2	A	57.671	AVRG	R		0.017340		pg	57.671	0	.99	20	
Aroclor-1254 Peak # 3	A	114.59	AVRG	R		0.008727		pg	114.59	0	.99	20	
Aroclor-1254 Peak # 4	A	189.02	AVRG	R		0.005290		pg	189.02	0	.99	20	
Aroclor-1254 Peak # 5	A	130.78	AVRG	R		0.007646		pg	130.78	0	.99	20	
Aroclor-1254 Peak # 1	B	103.01	AVRG	R		0.009708		pg	103.01	0	.99	20	
Aroclor-1254 Peak # 2	B	142.09	AVRG	R		0.007038		pg	142.09	0	.99	20	
Aroclor-1254 Peak # 3	B	101.18	AVRG	R		0.009884		pg	101.18	0	.99	20	
Aroclor-1254 Peak # 4	B	177.77	AVRG	R		0.005625		pg	177.77	0	.99	20	
Aroclor-1254 Peak # 5	B	174.89	AVRG	R		0.005718		pg	174.89	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

mm 10/8/04

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004			250.00	209.08	pg	-16	15	c- *** Ch. B used
GC22	B	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004			250.00	254.32	pg	2	15	
GC22	A	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004			500.00	382.87	pg	-23	15	c- ***
GC22	B	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004			500.00	529.36	pg	6	15	
GC22	A	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004			250.00	234.25	pg	-6	15	
GC22	B	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004			250.00	235.17	pg	-6	15	
GC22	A	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004			250.00	234.90	pg	-6	15	
GC22	B	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004			250.00	240.21	pg	-4	15	
GC22	A	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004			500.00	427.03	pg	-15	15	
GC22	B	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004			500.00	375.31	pg	-25	15	c- *** Ch. A used
GC22	A	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004			500.00	397.66	pg	-20	15	c- *** Ch. B used
GC22	B	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004			500.00	459.29	pg	-8	15	

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-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254401392005	04-OCT-2004 19:15	254401392001	04-OCT-2004			250.00	250.00	pg	0	15	
GC22	B	254401392005	04-OCT-2004 19:15	254401392001	04-OCT-2004			250.00	250.00	pg	0	15	
GC22	A	254401392021	05-OCT-2004 02:37	254401392001	04-OCT-2004			250.00	282.95	pg	13	15	
GC22	B	254401392021	05-OCT-2004 02:37	254401392001	04-OCT-2004			250.00	217.60	pg	-13	15	
GC22	A	254401392037	05-OCT-2004 09:59	254401392001	04-OCT-2004			250.00	317.67	pg	27	15	c+ *** Ch. B used
GC22	B	254401392037	05-OCT-2004 09:59	254401392001	04-OCT-2004			250.00	223.82	pg	-10	15	
GC22	A	254402597003	05-OCT-2004 14:45	254402597001	05-OCT-2004			250.00	250.00	pg	0	15	
GC22	B	254402597003	05-OCT-2004 14:45	254402597001	05-OCT-2004			250.00	250.00	pg	0	15	
GC22	A	254402597020	06-OCT-2004 01:19	254402597001	05-OCT-2004			250.00	249.30	pg	0	15	
GC22	B	254402597020	06-OCT-2004 01:19	254402597001	05-OCT-2004			250.00	225.71	pg	-10	15	
GC22	A	254403933012	06-OCT-2004 17:17	254403933002	06-OCT-2004			250.00	250.00	pg	0	15	
GC22	B	254403933012	06-OCT-2004 17:17	254403933002	06-OCT-2004			250.00	250.00	pg	0	15	
GC22	A	254403933027	07-OCT-2004 01:16	254403933002	06-OCT-2004			250.00	222.45	pg	-11	15	
GC22	B	254403933027	07-OCT-2004 01:16	254403933002	06-OCT-2004			250.00	243.72	pg	-3	15	
GC22	A	254403933045	07-OCT-2004 09:33	254403933002	06-OCT-2004			250.00	216.65	pg	-13	15	
GC22	B	254403933045	07-OCT-2004 09:33	254403933002	06-OCT-2004			250.00	273.09	pg	9	15	

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+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags	
GC22	A	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004			250.00	181.33	pg	-27	15	c- ***	Ch. B used
GC22	B	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004			250.00	241.53	pg	-3	15		
GC22	A	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004			500.00	363.39	pg	-27	15	c- ***	
GC22	B	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004			500.00	513.07	pg	3	15		
GC22	A	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004			250.00	236.42	pg	-5	15		
GC22	B	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004			250.00	212.14	pg	-15	15		
GC22	A	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004			250.00	224.88	pg	-10	15		
GC22	B	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004			250.00	213.88	pg	-14	15		
GC22	A	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004			500.00	426.48	pg	-15	15		Ch. A used
GC22	B	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004			500.00	334.48	pg	-33	15	c- ***	
GC22	A	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004			500.00	350.82	pg	-30	15	c- ***	Ch. B used
GC22	B	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004			500.00	427.69	pg	-14	15		

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-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004	3746.7	3321.6	50.000	44.328	pg	-11	15	
GC22	B	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004	3851.7	3852.9	50.000	50.015	pg	0	15	
GC22	A	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004	3746.7	2937.2	100.00	78.394	pg	-22	15	c-
GC22	B	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004	3851.7	3989.9	100.00	103.59	pg	4	15	
GC22	A	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004	3746.7	3528.7	50.000	47.092	pg	-6	15	
GC22	B	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004	3851.7	3741.6	50.000	48.570	pg	-3	15	
GC22	A	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004	3746.7	3409.3	50.000	45.498	pg	-9	15	
GC22	B	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004	3851.7	3829.6	50.000	49.713	pg	-1	15	
GC22	A	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004	3746.7	3187.0	100.00	85.062	pg	-15	15	
GC22	B	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004	3851.7	3011.0	100.00	78.173	pg	-22	15	c-
GC22	A	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004	3844.9	3220.0	100.00	83.747	pg	-16	15	c-
GC22	B	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004	3890.2	3543.7	100.00	91.093	pg	-9	15	
GC22	A	254403933044	07-OCT-2004 09:05	254403933001	06-OCT-2004	3844.9	3396.9	50.000	44.174	pg	-12	15	
GC22	B	254403933044	07-OCT-2004 09:05	254403933001	06-OCT-2004	3890.2	3645.0	50.000	46.849	pg	-6	15	

-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004	1967.1	1355.9	50.000	34.464	pg	-31	15	c-
GC22	B	254401392002	04-OCT-2004 17:52	254397386001	01-OCT-2004	2408.4	2056.1	50.000	42.687	pg	-15	15	
GC22	A	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004	1967.1	1498.1	100.00	76.156	pg	-24	15	c-
GC22	B	254401392018	05-OCT-2004 01:14	254397386001	01-OCT-2004	2408.4	2368.5	100.00	98.345	pg	-2	15	
GC22	A	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004	1967.1	1861.5	50.000	47.315	pg	-5	15	
GC22	B	254401392034	05-OCT-2004 08:36	254397386001	01-OCT-2004	2408.4	1930.7	50.000	40.083	pg	-20	15	c-
GC22	A	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004	1967.1	1718.2	50.000	43.672	pg	-13	15	
GC22	B	254402597002	05-OCT-2004 13:57	254397386001	01-OCT-2004	2408.4	1831.6	50.000	38.026	pg	-24	15	c-
GC22	A	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004	1967.1	1645.3	100.00	83.637	pg	-16	15	c-
GC22	B	254402597017	05-OCT-2004 23:56	254397386001	01-OCT-2004	2408.4	1507.8	100.00	62.608	pg	-37	15	c-
GC22	A	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004	2167.7	1385.7	100.00	63.927	pg	-36	15	c-
GC22	B	254403933026	07-OCT-2004 00:48	254403933001	06-OCT-2004	2230.3	1712.7	100.00	76.792	pg	-23	15	c-
GC22	A	254403933044	07-OCT-2004 09:05	254403933001	06-OCT-2004	2167.7	1473.7	50.000	33.993	pg	-32	15	c-
GC22	B	254403933044	07-OCT-2004 09:05	254403933001	06-OCT-2004	2230.3	1783.1	50.000	39.976	pg	-20	15	c-

-=low bias c=CCV

SEQUENCE SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254397386 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 01-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
009	275_009	X	hex			01-OCT-2004 22:38	1.0						
010	275_010	ICAL	pcb10_2			01-OCT-2004 23:06	1.0	1.0				1	
011	275_011	ICAL	pcb25_5			01-OCT-2004 23:33	1.0	1.0				2	
012	275_012	ICAL	pcb100_20			02-OCT-2004 00:01	1.0	1.0				3	
013	275_013	ICAL	pcb250_50			02-OCT-2004 00:29	1.0	1.0				4	
014	275_014	ICAL	pcb500_100			02-OCT-2004 00:56	1.0	1.0				5	
015	275_015	ICAL	pcb750_150			02-OCT-2004 01:24	1.0	1.0				6	
016	275_016	ICAL	cblk_200			02-OCT-2004 01:51	1.0	1.0				7	
018	275_018	ICV	accu_1660			02-OCT-2004 02:47	1.0	1.0			1	8	
019	275_019	X	icv			02-OCT-2004 03:14	1.0					8	
022	275_022	X	pcb250_50			02-OCT-2004 04:37	1.0	1.0			1	9	
023	275_023	CCV	ccv			02-OCT-2004 05:05	1.0	1.0			1	9	
024	275_024	CCV	ar1254			02-OCT-2004 05:32	1.0	1.0			1	10	
027	275_027	BLANK	QC266347	95028	Filtra	02-OCT-2004 06:55	1.0	0.025			1		
028	275_028	LCS	QC266348	95028	Filtra	02-OCT-2004 07:23	1.0	0.025		2	1		
029	275_029	SAMPLE	174913-001	95028	Filtra	02-OCT-2004 07:51	1.0	0.025			1		
030	275_030	SAMPLE	174913-002	95028	Filtra	02-OCT-2004 08:18	1.0	0.025			1		
031	275_031	SAMPLE	174732-002	95033	Soil	02-OCT-2004 08:46	1.0						
032	275_032	SAMPLE	174732-003	95033	Soil	02-OCT-2004 09:13	1.0						
033	275_033	SAMPLE	174732-004	95033	Soil	02-OCT-2004 09:41	1.0						
034	275_034	SAMPLE	174907-001	95033	Miscel	02-OCT-2004 10:09	1.0	0.6588		3	1		
036	275_036	CCV	pcb500_100			02-OCT-2004 11:04	1.0	1.0			1	11	
037	275_037	X	ccv			02-OCT-2004 11:31	1.0					11	
038	275_038	CCV	ar1254			02-OCT-2004 11:59	1.0	1.0			1	10	
039	275_039	X	ccv			02-OCT-2004 12:27	1.0					10	

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS1854 10=04WS1809 11=04W

SEQUENCE SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254401392 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 04-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	278_002	CCV	pcb250_50			04-OCT-2004 17:52	1.0	1.0	2		1	1	
003	278_003	X	ccv			04-OCT-2004 18:20	1.0					1	
004	278_004	X	ccv			04-OCT-2004 18:47	1.0	1.0			1	2	
005	278_005	CCV	ar1254 ICAL			04-OCT-2004 19:15	1.0	1.0			1	2	
007	278_007	BLANK	QC266694	95119	Soil	04-OCT-2004 20:10	1.0	0.6579	2		1		
008	278_008	LCS	QC266695	95119	Soil	04-OCT-2004 20:38	1.0	0.6658			1		
009	278_009	SAMPLE	174993-001	95119	Soil	04-OCT-2004 21:05	1.0	0.6711	2	1	1		
010	278_010	SAMPLE	175023-001	95119	Soil	04-OCT-2004 21:33	1.0	0.6636	2	1	1		
011	278_011	SAMPLE	175023-002	95119	Soil	04-OCT-2004 22:00	1.0	0.6748	2		1		
012	278_012	SAMPLE	175023-003	95119	Soil	04-OCT-2004 22:28	1.0	0.6562	2		1		
013	278_013	SAMPLE	175024-001	95119	Soil	04-OCT-2004 22:56	1.0	0.6693	2		1		
014	278_014	SAMPLE	175024-002	95119	Soil	04-OCT-2004 23:23	1.0	0.6618	2		1		
015	278_015	SAMPLE	175024-003	95119	Soil	04-OCT-2004 23:51	1.0	0.6698	2		1		
016	278_016	SAMPLE	175037-004	95119	Soil	05-OCT-2004 00:18	1.0	0.6693	2		1		
018	278_018	CCV	pcb500_100			05-OCT-2004 01:14	1.0	1.0	2		1	3	
019	278_019	X	ccv			05-OCT-2004 01:41	1.0					3	
020	278_020	X	ccv			05-OCT-2004 02:09	1.0					2	
021	278_021	CCV	ar1254			05-OCT-2004 02:37	1.0	1.0			1	2	
023	278_023	BLANK	QC266799	95146	Oil	05-OCT-2004 03:32	1.0	50.0	2		1		
024	278_024	BS	QC266800	95146	Oil	05-OCT-2004 03:59	1.0	50.0	1		1		
025	278_025	BSD	QC266801	95146	Oil	05-OCT-2004 04:27	1.0	50.0	1		1		
026	278_026	MSS	175037-005	95119	Soil	05-OCT-2004 04:55	1.0	0.6689	2		1		
027	278_027	SAMPLE	175037-006	95119	Soil	05-OCT-2004 05:22	1.0	0.6748	2		1		
028	278_028	SAMPLE	174868-001	95146	Oil	05-OCT-2004 05:50	1.0	50.20	2		1		
029	278_029	SAMPLE	174868-002	95146	Oil	05-OCT-2004 06:18	1.0	49.72	2		1		
030	278_030	SAMPLE	174868-003	95146	Oil	05-OCT-2004 06:45	1.0	51.35	2		1		
031	278_031	SAMPLE	174868-004	95146	Oil	05-OCT-2004 07:13	1.0	49.65	2		1		
032	278_032	SAMPLE	174868-005	95146	Oil	05-OCT-2004 07:40	1.0	47.87	2		1		
034	278_034	CCV	pcb250_50			05-OCT-2004 08:36	1.0	1.0			1	1	
035	278_035	X	ccv			05-OCT-2004 09:03	1.0					1	
036	278_036	X	ccv			05-OCT-2004 09:31	1.0					2	

Stds used: 1=04WS1854 2=04WS1809 3=04WS1855

SEQUENCE SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254401392 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 04-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
037	278_037	CCV	ar1254			05-OCT-2004 09:59	1.0	1.0	1		1	2	

306

Stds used: 1=04WS1854 2=04WS1809 3=04WS1855

SEQUENCE SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254402597 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 05-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	279_002	CCV	pcb250_50			05-OCT-2004 13:57	1.0	1.0			1	1	
003	279_003	CCV	ar1254 – ICAL			05-OCT-2004 14:45	1.0	1.0			1	2	
004	279_004	X	ccv			05-OCT-2004 15:54	1.0					2	
006	279_006 A	BLANK	QC266950	95189	Soil	05-OCT-2004 18:53	1.0	0.668	2		1		
007	279_007 A	LCS	QC266951	95189	Soil	05-OCT-2004 19:20	1.0	0.6693		1	1		
008	279_008	SAMPLE	175042-001	95189	Soil	05-OCT-2004 19:48	1.0	0.6698	2		1		
009	279_009	SAMPLE	175042-002	95189	Soil	05-OCT-2004 20:15	1.0	0.664	2		1		
010	279_010	SAMPLE	175022-001	95172	Water	05-OCT-2004 20:43	1.0	0.025	2		1		
011	279_011	SAMPLE	175022-002	95172	Water	05-OCT-2004 21:11	1.0	0.02427	2		1		
012	279_012	SAMPLE	175022-004	95119	Soil	05-OCT-2004 21:38	1.0	0.6592	2		1		
013	279_013	SAMPLE	175022-005	95119	Soil	05-OCT-2004 22:06	1.0	0.6562	2		1		
014	279_014 A	MS	QC266696	95119	Soil	05-OCT-2004 22:34	1.0	0.6707			1		
015	279_015 B	MSD	QC266697	95119	Soil	05-OCT-2004 23:01	1.0	0.668			1		
017	279_017	CCV	pcb500_100			05-OCT-2004 23:56	1.0	1.0	2		1	3	
018	279_018	X	ccv			06-OCT-2004 00:24	1.0					3	
019	279_019	X	ccv			06-OCT-2004 00:52	1.0					2	
020	279_020	CCV	ar1254			06-OCT-2004 01:19	1.0	1.0			1	2	
022	279_022	BLANK	QC266898	95172	Water	06-OCT-2004 02:15	1.0	0.025	2		1		
023	279_023	BS	QC266899	95172	Water	06-OCT-2004 02:42	1.0	0.025			1		
024	279_024	BSD	QC266900	95172	Water	06-OCT-2004 03:10	1.0	0.025			1		
025	279_025	SAMPLE	175001-001	95172	Water	06-OCT-2004 03:37	1.0	0.025	2	2	1		
026	279_026	SAMPLE	175035-010	95172	Water	06-OCT-2004 04:05	1.0	0.02451	2		1		
027	279_027	SAMPLE	175035-011	95172	Water	06-OCT-2004 04:33	1.0	0.025	2		1		
028	279_028	SAMPLE	174913-001	95028	Water	06-OCT-2004 05:00	1.0	0.025	2	2	1		
029	279_029	SAMPLE	174913-002	95028	Water	06-OCT-2004 05:28	1.0	0.025	2		1		
030	279_030	SAMPLE	175008-001	95146	Oil	06-OCT-2004 05:56	1.0						
032	279_032	X	ccv			06-OCT-2004 06:51	1.0					1	
033	279_033	CCV	pcb250_50			06-OCT-2004 07:19	1.0	1.0	1		1	1	
034	279_034	CCV	ar1254			06-OCT-2004 07:46	1.0	1.0			1	2	
035	279_035	X	ccv			06-OCT-2004 08:14	1.0					2	

Stds used: 1=04WS1854 2=04WS1809 3=04WS1855

SEQUENCE SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254403933 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	280_001	X	hex			06-OCT-2004 11:46	1.0						
002	280_002	ICAL	pcb10_2			06-OCT-2004 12:13	1.0	1.0				1	
003	280_003	ICAL	pcb25_5			06-OCT-2004 12:41	1.0	1.0				2	
004	280_004	ICAL	pcb100_20			06-OCT-2004 13:09	1.0	1.0				3	
005	280_005	ICAL	pcb250_50			06-OCT-2004 13:36	1.0	1.0				4	
006	280_006	ICAL	pcb500_100			06-OCT-2004 14:04	1.0	1.0				5	
007	280_007	ICAL	pcb750_150			06-OCT-2004 14:32	1.0	1.0				6	
008	280_008	ICAL	cb1k_200			06-OCT-2004 14:59	1.0	1.0				7	
009	280_009	X	hex			06-OCT-2004 15:27	1.0						
010	280_010	ICV	accu_1660			06-OCT-2004 15:54	1.0	1.0			1	8	
012	280_012	CCV	ar1254 — ICAL			06-OCT-2004 17:17	1.0	1.0			1	9	
014	280_014	SAMPLE	175065-001	95189	Soil	06-OCT-2004 19:17	1.0	0.6562	2		1		
015	280_015	SAMPLE	175065-002	95189	Soil	06-OCT-2004 19:44	1.0	0.6676	2		1		
016	280_016	SAMPLE	175065-003	95189	Soil	06-OCT-2004 20:12	1.0	0.6693	2	4	1		
017	280_017	SAMPLE	175065-004	95189	Soil	06-OCT-2004 20:40	1.0	0.6631	2		1		
018	280_018	SAMPLE	175072-001	95189	Soil	06-OCT-2004 21:07	1.0	0.6627	2		1		
019	280_019	SAMPLE	175072-002	95189	Soil	06-OCT-2004 21:35	1.0	0.657	2		1		
020	280_020B	SAMPLE	175037-003	95189	Soil	06-OCT-2004 22:03	1.0	0.6566	2	2	1		
021	280_021	SAMPLE	174913-001	95028	Water	06-OCT-2004 22:30	1.0	0.025	2		1		
022	280_022B	MS	QC266952	95189	Soil	06-OCT-2004 22:58	1.0	0.6748			1		
023	280_023B	MSD	QC266953	95189	Soil	06-OCT-2004 23:25	1.0	0.6623			1		
025	280_025	X	ccv			07-OCT-2004 00:21	1.0					10	
026	280_026	CCV	pcb500_100			07-OCT-2004 00:48	1.0	1.0	2		1	10	
027	280_027	CCV	ar1254			07-OCT-2004 01:16	1.0	1.0			1	9	
028	280_028	X	ccv			07-OCT-2004 01:44	1.0					9	
030	280_030	CCV	ar1248			07-OCT-2004 02:39	1.0	1.0			1	11	
032	280_032	SAMPLE	175015-001	95189	Soil	07-OCT-2004 03:34	1.0	0.6636	2		1		
033	280_033	SAMPLE	175015-002	95189	Soil	07-OCT-2004 04:02	1.0	0.6566	2		1		
034	280_034	SAMPLE	175015-003	95189	Soil	07-OCT-2004 04:29	1.0	0.6702	2		1		
035	280_035	SAMPLE	175015-004	95189	Soil	07-OCT-2004 04:57	1.0	0.6627	2		1		
036	280_036	SAMPLE	175015-006	95189	Soil	07-OCT-2004 05:25	1.0	0.6627	2		1		

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS1907 10=04WS1855 11=04WS1542 12=04WS1854

SEQUENCE SUMMARY FOR 175037 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254403933 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 06-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
037	280_037	MSS	175015-007	95189	Soil	07-OCT-2004 05:52	1.0	0.6757	2		1		
038	280_038	SAMPLE	175015-008	95189	Soil	07-OCT-2004 06:20	1.0	0.668	2		1		
039	280_039	SAMPLE	175015-009	95189	Soil	07-OCT-2004 06:47	1.0	0.668	2		1		
040	280_040	SAMPLE	175015-005	95189	Soil	07-OCT-2004 07:15	1.0	0.6698	3		1		2:PCB101=1688.12
041	280_041	SAMPLE	175008-001	95146	Oil	07-OCT-2004 07:43	1.0	49.27	3		1		1:PCB126=1098.58
043	280_043	X	pcb250_50			07-OCT-2004 08:38	1.0	1.0			1	12	
044	280_044	CCV	ccv			07-OCT-2004 09:05	1.0	1.0	2		1	12	
045	280_045	CCV	ar1254			07-OCT-2004 09:33	1.0	1.0			1	9	
046	280_046	X	ccv			07-OCT-2004 10:01	1.0					9	
048	280_048	CCV	ar1248			07-OCT-2004 10:56	1.0	1.0			1	11	

309

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS1907 10=04WS1855 11=04WS1542 12=04WS1854

Reporting Summary for 175037 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175037-003	Aroclor-1016	GC22	B	10/06/04 22:03
175037-003	Aroclor-1221	GC22	B	10/06/04 22:03
175037-003	Aroclor-1232	GC22	B	10/06/04 22:03
175037-003	Aroclor-1242	GC22	B	10/06/04 22:03
175037-003	Aroclor-1248	GC22	B	10/06/04 22:03
175037-003	Aroclor-1254	GC22	B	10/06/04 22:03
175037-003	Aroclor-1260	GC22	B	10/06/04 22:03
175037-003	TCMX	GC22	B	10/06/04 22:03
175037-003	Decachlorobiphenyl	GC22	B	10/06/04 22:03
175037-004	Aroclor-1016	GC22	B	10/05/04 00:18
175037-004	Aroclor-1221	GC22	A	10/05/04 00:18
175037-004	Aroclor-1232	GC22	A	10/05/04 00:18
175037-004	Aroclor-1242	GC22	A	10/05/04 00:18
175037-004	Aroclor-1248	GC22	A	10/05/04 00:18
175037-004	Aroclor-1254	GC22	A	10/05/04 00:18
175037-004	Aroclor-1260	GC22	B	10/05/04 00:18
175037-004	TCMX	GC22	B	10/05/04 00:18
175037-004	Decachlorobiphenyl	GC22	B	10/05/04 00:18
175037-005	Aroclor-1016	GC22	B	10/05/04 04:55
175037-005	Aroclor-1221	GC22	A	10/05/04 04:55
175037-005	Aroclor-1232	GC22	A	10/05/04 04:55
175037-005	Aroclor-1242	GC22	A	10/05/04 04:55
175037-005	Aroclor-1248	GC22	A	10/05/04 04:55
175037-005	Aroclor-1254	GC22	A	10/05/04 04:55
175037-005	Aroclor-1260	GC22	B	10/05/04 04:55
175037-005	TCMX	GC22	B	10/05/04 04:55
175037-005	Decachlorobiphenyl	GC22	B	10/05/04 04:55
175037-006	Aroclor-1016	GC22	B	10/05/04 05:22
175037-006	Aroclor-1221	GC22	A	10/05/04 05:22
175037-006	Aroclor-1232	GC22	A	10/05/04 05:22
175037-006	Aroclor-1242	GC22	A	10/05/04 05:22
175037-006	Aroclor-1248	GC22	A	10/05/04 05:22
175037-006	Aroclor-1254	GC22	A	10/05/04 05:22
175037-006	Aroclor-1260	GC22	B	10/05/04 05:22
175037-006	TCMX	GC22	B	10/05/04 05:22
175037-006	Decachlorobiphenyl	GC22	B	10/05/04 05:22
QC266694	Aroclor-1016	GC22	B	10/04/04 20:10
QC266694	Aroclor-1221	GC22	B	10/04/04 20:10
QC266694	Aroclor-1232	GC22	B	10/04/04 20:10
QC266694	Aroclor-1242	GC22	B	10/04/04 20:10
QC266694	Aroclor-1248	GC22	B	10/04/04 20:10
QC266694	Aroclor-1254	GC22	B	10/04/04 20:10
QC266694	Aroclor-1260	GC22	B	10/04/04 20:10
QC266694	TCMX	GC22	B	10/04/04 20:10
QC266694	Decachlorobiphenyl	GC22	B	10/04/04 20:10
QC266950	Aroclor-1016	GC22	A	10/05/04 18:53
QC266950	Aroclor-1221	GC22	A	10/05/04 18:53
QC266950	Aroclor-1232	GC22	A	10/05/04 18:53
QC266950	Aroclor-1242	GC22	A	10/05/04 18:53

Reporting Summary for 175037 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC266950	Aroclor-1248	GC22	A	10/05/04 18:53
QC266950	Aroclor-1254	GC22	A	10/05/04 18:53
QC266950	Aroclor-1260	GC22	A	10/05/04 18:53
QC266950	TCMX	GC22	A	10/05/04 18:53
QC266950	Decachlorobiphenyl	GC22	A	10/05/04 18:53
QC266695	Aroclor-1254	GC22	B	10/04/04 20:38
QC266695	TCMX	GC22	B	10/04/04 20:38
QC266695	Decachlorobiphenyl	GC22	B	10/04/04 20:38
QC266696	Aroclor-1254	GC22	A	10/05/04 22:34
QC266696	TCMX	GC22	A	10/05/04 22:34
QC266696	Decachlorobiphenyl	GC22	A	10/05/04 22:34
QC266697	Aroclor-1254	GC22	A	10/05/04 23:01
QC266697	TCMX	GC22	A	10/05/04 23:01
QC266697	Decachlorobiphenyl	GC22	A	10/05/04 23:01
QC266951	Aroclor-1254	GC22	A	10/05/04 19:20
QC266951	TCMX	GC22	A	10/05/04 19:20
QC266951	Decachlorobiphenyl	GC22	A	10/05/04 19:20
QC266952	Aroclor-1254	GC22	B	10/06/04 22:58
QC266952	TCMX	GC22	B	10/06/04 22:58
QC266952	Decachlorobiphenyl	GC22	B	10/06/04 22:58
QC266953	Aroclor-1254	GC22	B	10/06/04 23:25
QC266953	TCMX	GC22	B	10/06/04 23:25
QC266953	Decachlorobiphenyl	GC22	B	10/06/04 23:25

Curtis & Tompkins Laboratories **Sample Preparation Summary** **06-OCT-2004 12:49**

Batch Number : 95119
Date Extracted: 03-OCT-2004
Extracted by : Jennifer R Dell
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343B
Spike #2 ID : 04WS1711A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174993-001			URS Corporation	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	
175022-004			Montezuma Wetlands LLC	Soil	15.17	g	10	0.659196	1		.025	0		PCB	3665A	
175022-005			Montezuma Wetlands LLC	Soil	15.24	g	10	0.656168	1		.025	0		PCB	3665A	
175023-001			URS Corporation	Soil	15.07	g	10	0.663570	1		.025	0		PCB	3665A	
175023-002			URS Corporation	Soil	14.82	g	10	0.674764	1		.025	0		PCB	3665A	
175023-003			URS Corporation	Soil	15.24	g	10	0.656168	1		.025	0		PCB	3665A	
175024-001			URS Corporation	Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	
175024-002			URS Corporation	Soil	15.11	g	10	0.661813	1		.025	0		PCB	3665A	
175024-003			URS Corporation	Soil	14.93	g	10	0.669792	1		.025	0		PCB	3665A	
175037-004			Treadwell & Rollo	Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	mss
175037-005			Treadwell & Rollo	Soil	14.95	g	10	0.668896	1		.025	0		PCB	3665A	
175037-006			Treadwell & Rollo	Soil	14.82	g	10	0.674764	1		.025	0		PCB	3665A	
QC266694	MB			Soil	15.2	g	10	0.657895	1		.025	0		PCB	3665A	
QC266695	LCS			Soil	15.02	g	10	0.665779	1		.025	.025		PCB	3665A	
QC266696	MS	of 175037-005		Soil	14.91	g	10	0.670691	1		.025	.025		PCB	3665A	
QC266697	MSD	of 175037-005		Soil	14.97	g	10	0.668003	1		.025	.025		PCB	3665A	

312

Prep Chemist: Jennifer Dell Reviewed By: [signature] Date: 10/6/04

Relinquished By: [signature] for Jim Received By: [signature] Date: 10/6/04

Curtis & Tompkins, Ltd. **PCB SOIL PREP LOG** BK 1940

Page 96

LIMS Batch No: 95119
LIMS Analysis PCB
Extracted by: JRD
Date Extracted: 10/3/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☒ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
174993-001	14.90	10.0	
175022-004	15.17	↓	
↓ -005	15.24	↓	
175023-001	15.07	↓	
↓ -002	14.82	↓	
↓ -003	15.24	↓	
175024-001	14.94	↓	
↓ -002	15.11	↓	
↓ -003	14.93	↓	
175037-004	14.94	↓	
↓ -005	14.95	↓	MSS
↓ -006	14.82	↓	
MB QC266694	15.20	↓	
LCS ↓ 95	15.02	↓	
MS ↓ 96	14.91	↓	
MSD ↓ 97	14.91	↓	

JOM 10/4/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	FD30133	JRD 10/3/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex 040408	↓
0.025 mL of surrogate solution was added to all samples	04WS1343B	↓
0.025 mL of spike solution 1259 was added to all spikes	04WS1711A	↓
1:1 CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44179) was added to all	✓	↓
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	↓
ASE Cellulose Filters used:	N/A	↓
PFE (ASE) / soxhlets on at:	↓	↓
PFE (ASE) / soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	N/A	JOM 10/4/04
Concentrated to volumes noted above after exchange to Hexane Lot#	CL917	↓
EPA 3665A Clean-up: vortexed w/ ~~10~~ 5 mL H_2SO_4 Lot#	JTBX26046	↓
Centrifuged for 1 min; ~~10~~ 5 mL transferred to labelled vial	✓	↓

Jennifer Dell 10/3/04
Extraction Chemist / Date

Continued from page —
Continued on page 313

Janice Yee 10/4/04
Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. 14044

Continued From Page

Sample ID	Weight	Analysis	Comments
175012-001A	50.19	TEHM	
-002A	49.85		MSS
MS	50.43		175012-002A
MSD	49.64		
LCS	50.06		F030132
MB	50.39		
175013-001A	49.88	TEHM	
175023-001	49.91	TEHM	4, COMP A-D
-002	49.99		
-003	49.96		
175023-001	30.33	8270	4, COMP A-D
-002	30.13		
-003	30.02		
175023-001	15.01	8081	4, COMP A-D
-002	14.98		
-003	15.08		
175023-001	15.07	PCB	4, COMP A-D
-002	14.82		
-003	15.24		
174988-009A	30.01	8270	
MS/MSD ~~-009A~~ 010A	30.31		

Continued on Page

Read and Understood By

Michelle Cirt 10/1/04

Signed Date Signed Date

Sample ID	Weight (g)	Analysis	Comments
175024-001	50.08	TCLM	4, COMP A-D
-002	49.96		
-003	50.10		
175024-001	29.94	8270	4, COMP A-D
-002	30.08		
-003	29.90		
175024-001	14.94	PCB	4, COMP A-D
-002	15.11		
-003	14.93		
175024-001	15.05	8081	4, COMP A-D
-002	15.04		
-003	15.17		

Continued on Page

Read and Understood By

Michelle Cantu 10/1/04

Signed Date Signed Date

80
PROJECT Soil Aliquot

Notebook No. BK1999

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
175022-004	15.08	8081	3, Comp A-C
↓ -005	15.13	↓	↓
175022-004	15.17	PCB	3, Comp A-C
↓ -005	15.24	↓	↓

Continued on Page

Read and Understood By

Signed: [illegible] Date: 10/1/04

Signed: Date:

PROJECT Oil Aliquot

Notebook No. DA1747

Continued From Page 81

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
174988-018A	15.20	8081	
-019A	14.86		
-020A	15.23		
MS	15.15		174988-006A
MSD	14.95		↓
LCS	15.14		F030132
MB	14.83		↓
175017-001	50.47	TEH	4, COMP A-D
174993-001	14.90	PCB	2, COMP A-B
175026-005A	15.20	8081	
-014A	14.86		
175031-005A	15.16	8081	
-009A Mc 1%	14.84		2, COMP A-B
-010A Mc 1%	15.06		↓
-013A	14.89		MSS
MS	14.92		
MSD	14.94		
LCS	14.92		
MB	15.15		
175037-003A	14.82	8081	
-004A	14.90		
-005A	14.84		
-006A	Mc 1% 14.95 ~~14.95 14.92~~		
175037-003A	50.44	TEHM	
175037-003A	30.38	8270	

Continued on Page

Read and Understood By

Michelle Cuta 10/1/04

Signed Date

Signed Date

Sample ID	Weight (g)	Analysis	Comments
175037-064A	14.94	PCB	
-065A	14.95	↓	
-066A	14.82		

Continued on Page

Read and Understood By

Michelle Austin 10/1/04 318

Signed Date Signed

84
PROJECT SOIL ALIQUOT

Notebook No. SK 1999
Continued From Page —

Sample ID	Weight (g)	Analysis	Comments
1) MB	29.55	8100	F030132
LCS	29.72		↓
MS	29.61		174952-001
MSD	29.59		↓
174945-001	29.51		aliased 174839-001:A
2	29.68		2
3	30.18		3
4	29.65		4
5	29.84		5
6	29.81		6
7	29.87		7
8	29.64		8
9	29.58		9
10	29.73		10
174951-001	29.50		aliased 174840-003:A
2	29.53		4
3	29.60		5
4	29.58		6
5	29.65		7
6	29.70		8
7	30.13		9
8	29.63		10
174952-001	29.86		MSS; aliased 174841-001:A
2	29.85		2
2) 175037-005A	14.95	PCB	MSS
MB	15.20		F030132
LCS	15.03		↓
MS	14.91		175037-005A
MSD	14.97		↓

Continued on Page

Read and Understood By

2) Jennifer Dell 10/3/04
1) [illegible] 2-OCT-2004

Signed Date Signed Date

Curtis & Tompkins Laboratories Sample Preparation Summary 06-OCT-2004 09:58

Batch Number : 95189
Date Extracted: 05-OCT-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3545

Analysis : N/A
Bgroup : PCB
Units : g
Clean-up :

Spike #1 ID : 04WS1343B
Spike #2 ID : 04WS1711A
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175015-001			Tetra Tech EMI	Soil	15.07	g	10	0.663570	1	.025	0		PCB	3665A	
175015-002			Tetra Tech EMI	Soil	15.23	g	10	0.656599	1	.025	0		PCB	3665A	
175015-003			Tetra Tech EMI	Soil	14.92	g	10	0.670241	1	.025	0		PCB	3665A	
175015-004			Tetra Tech EMI	Soil	15.09	g	10	0.662691	1	.025	0		PCB	3665A	
175015-005			Tetra Tech EMI	Soil	14.93	g	10	0.669792	1	.025	0		PCB	3665A	
175015-006			Tetra Tech EMI	Soil	15.09	g	10	0.662691	1	.025	0		PCB	3665A	
175015-007			Tetra Tech EMI	Soil	14.8	g	10	0.675676	1	.025	0		PCB	3665A	MSS
175015-008			Tetra Tech EMI	Soil	14.97	g	10	0.668003	1	.025	0		PCB	3665A	
175015-009			Tetra Tech EMI	Soil	14.97	g	10	0.668003	1	.025	0		PCB	3665A	
175037-003			Treadwell & Rollo	Soil	15.23	g	10	0.656599	1	.025	0		PCB	3665A	
175042-001			URS Corporation	Soil	14.93	g	10	0.669792	1	.025	0		PCB	3665A	
175042-002			URS Corporation	Soil	15.06	g	10	0.664011	1	.025	0		PCB	3665A	
175065-001			URS Corporation	Soil	15.24	g	10	0.656168	1	.025	0		PCB	3665A	
175065-002			URS Corporation	Soil	14.98	g	10	0.667557	1	.025	0		PCB	3665A	
175065-003			URS Corporation	Soil	14.94	g	10	0.669344	1	.025	0		PCB	3665A	
175065-004			URS Corporation	Soil	15.08	g	10	0.663130	1	.025	0		PCB	3665A	
175072-001			URS Corporation	Soil	15.09	g	10	0.662691	1	.025	0		PCB	3665A	
175072-002			URS Corporation	Soil	15.22	g	10	0.657030	1	.025	0		PCB	3665A	
QC266950	MB			Soil	14.97	g	10	0.668003	1	.025	0		PCB	3665A	
QC266951	LCS			Soil	14.94	g	10	0.669344	1	.025	.025		PCB	3665A	
QC266952	MS	of 175015-007		Soil	14.82	g	10	0.674764	1	.025	.025		PCB	3665A	
QC266953	MSD	of 175015-007		Soil	15.1	g	10	0.662252	1	.025	.025		PCB	3665A	

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 10/6/04

Relinquished By: [illegible] Received By: [illegible] Date: 10/06/04

Curtis & Tompkins, Ltd.

PCB 8082 SOIL PREP LOG

BK 2014

Page 1

LIMS Batch No: 95189
LIMS Analysis PCB
Extracted by: JOM
Date Extracted: 10/5/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☒ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

	Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
	175015-001A	15.07	10.0	
	-002	15.23		
	-003	14.92		
	-004	15.09		
5	-005	14.93		
	-006	15.09		
	-007	14.80		MSS
	-008	14.97		
	-009	14.97		
10	175037-003A	15.23		
	175065-001	15.24		
	-002	14.98		
	-003	14.94		
	-004	15.08		
15	175042-001	14.93	10.0	
	-002	15.06		
	MB QC2166950	14.97	10.0	
	LCS 51	14.94		
	MS 52	JOM 10/5/04 ~~15.10~~ 14.82	10.0	175015-007A
20	MSD 53	15.10		
	175072-001	15.09		
	-002	15.22		
				AMS 10/6/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	F030132	JOM 10/5/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex 040112	
0.025 mL of surrogate solution was added to all samples	04WS1343B	
0.025 mL of spike solution 1254 was added to all spikes	04WS1711A	
1:1 CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D28	
PFE (ASE) / soxhlets on at:	N/A	
PFE (ASE) / soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	N/A	
Concentrated to volumes noted above after exchange to Hexane Lot#	CL917	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTBX216046	
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	↓

Jessie Mee 10/5/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

[illegible] 10/6/04
Reviewed by / Date

PROJECT Soil Aliquot

Notebook No. BK 1999

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175042-001	14.85	8081	4, COMP A-D
↓ -002	14.79	↓	
175402-001	14.93	PCB	
↓ -002	15.06	↓	
175402-001	50.17	TEH	
↓ -002	49.74	↓	

Continued on Page

Read and Understood By

322

H. Chelle Cost
Signed

10/4/04
Date

Signed

Date

PROJECT Soil Analyst

Notebook No. BK 1999

Continued From Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175015-001A	15.07	PCB	
-002	15.23		
-003	14.92		
-004	15.09		
-005	14.93		
-006	15.09		
-007	14.80		MS S
-008	14.97		
-009	14.97		
MS	14.82		175015-007A
MSD	15.10		↓
BCS	14.94		F030132
MB	14.97		↓
175037-003A	15.23	PCB	
174783-001A	30.00	8100	re-extract
-006A	30.28		
-007A	30.09		
-008A	30.20		
174952-002A	30.49	8100	re-extract
174945-004A	29.64	8100	re-extract
175038-001A	29.62	8100	gpc, aka 174925-001A
175032-008A	14.90	8081	
-011A	15.22		

Continued on Page

Read and Understood By

Michelle Cook — Signed

10/4/04 — Date

Signed

Date

PROJECT Soil Aliquot

Notebook No. BK 1999

Continued From Page

Sample No.	Weight (g)	Analysis	Comments
~~1977~~ Mc 10/5			
174781-001	30.32	8100	re-extracts aka. 174633-001A
-002	30.20		-002A
-003	30.12		-003A
-004	30.05		-004SA
-005	30.15		
174780-003A	30.33	8100	aka 174679-003A
-004A	30.30		re-extracts -004A
Mc 10/5 174782R-001A	30.03	8100	174634-001A
175065-001	29.99	8270	4 COMP A-D
-002	30.28		
-003	30.39		
-004	29.89		
175065-001	50.11	TEHM	4 COMP A-D
-002	49.88		
-003	49.86		
-004	50.43		
175065-001	15.24	PCB	
-002	14.98		
-003	14.94		
-004	15.08		
175065-001	15.08	8081	
-002	15.20		
-003	15.07		
-004	14.90		

Continued on Page

Read and Understood By

Signed: [illegible] Date: 10/5/04

Signed: Date:

Sample ID	Weight	Analyst	Comments
174994-001	30.29	[illegible]	4 Compared
-002	30.14		recalculate
-003	30.18		
-004	30.21		
175022-001	49.86	TEHM	4 Compared
-002	50.40		
175072-001	MC 10/5 29 1502	SAB	
-002	14.93		
175072-001	15.09	PCB	
-002	15.22		
175078-001	29.88	SMW	
-002	30.28		

Continued on Page

Read and Understood By

Signed [illegible] Date 10/5/04 Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14 A	GC14 B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0					04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	11/02/04 4.4	11/02/04 3.7			08/02/03 2.3	08/02/03 2.0	10/30/04 4.0	10/30/04 2.9
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9					04/07/04 2.2	04/07/04 2.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX128[0.5]	Batch#:	95120
Lab ID:	175037-001	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 15%

Analyte	Result	RL	MDL	Dilu Fac
Antimony	ND	2.4	0.16	1.000
Arsenic	4.2	0.20	0.080	1.000
Barium	120	0.40	0.011	1.000
Beryllium	0.41	0.080	0.0051	1.000
Cadmium	ND	0.20	0.022	1.000
Chromium	110	0.40	0.027	1.000
Cobalt	18	0.80	0.061	1.000
Copper	18	0.40	0.046	1.000
Iron	28,000	40	6.4	10.00
Lead	4.7	0.12	0.052	1.000
Manganese	550	0.40	0.089	1.000
Molybdenum	ND	0.80	0.049	1.000
Nickel	150	0.80	0.053	1.000
Selenium	0.70	0.20	0.14	1.000
Silver	ND	0.20	0.079	1.000
Thallium	ND	0.20	0.16	1.000
Vanadium	58	0.40	0.035	1.000
Zinc	41	0.80	0.14	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX129[0.5]	Batch#:	95120
Lab ID:	175037-002	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 4%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	3.0	0.20	1.000
Arsenic	2.7	0.25	0.10	1.000
Barium	8.8	0.51	0.014	1.000
Beryllium	0.12	0.10	0.0064	1.000
Cadmium	ND	0.25	0.028	1.000
Chromium	29	0.51	0.033	1.000
Cobalt	4.1	1.0	0.077	1.000
Copper	2.6	0.51	0.058	1.000
Iron	8,500	100	16	20.00
Lead	1.3	0.15	0.066	1.000
Manganese	99	0.51	0.11	1.000
Molybdenum	ND	1.0	0.064	1.000
Nickel	22	1.0	0.068	1.000
Selenium	ND	0.25	0.18	1.000
Silver	ND	0.25	0.10	1.000
Thallium	ND	0.25	0.22	1.000
Vanadium	20	0.51	0.045	1.000
Zinc	13	1.0	0.18	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX130[0.5]	Batch#:	95120
Lab ID:	175037-003	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 2%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.1	0.13	1.000
Arsenic	3.3	0.17	0.068	1.000
Barium	16	0.34	0.0092	1.000
Beryllium	0.11	0.068	0.0043	1.000
Cadmium	ND	0.17	0.019	1.000
Chromium	42	0.34	0.022	1.000
Cobalt	5.2	0.68	0.052	1.000
Copper	3.7	0.34	0.039	1.000
Iron	14,000	68	11	20.00
Lead	2.8	0.10	0.044	1.000
Manganese	160	0.34	0.077	1.000
Molybdenum	ND	0.68	0.043	1.000
Nickel	24	0.68	0.046	1.000
Selenium	0.32	0.17	0.12	1.000
Silver	ND	0.17	0.067	1.000
Thallium	ND	0.17	0.14	1.000
Vanadium	36	0.34	0.031	1.000
Zinc	17	0.68	0.11	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX131[0.5]	Batch#:	95120
Lab ID:	175037-004	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 4%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	3.3	0.22	1.000
Arsenic	2.7	0.27	0.10	1.000
Barium	8.7	0.55	0.015	1.000
Beryllium	0.13	0.11	0.0069	1.000
Cadmium	ND	0.27	0.030	1.000
Chromium	41	0.55	0.036	1.000
Cobalt	4.9	1.1	0.083	1.000
Copper	2.9	0.55	0.063	1.000
Iron	12,000	110	18	20.00
Lead	1.3	0.16	0.071	1.000
Manganese	130	0.55	0.13	1.000
Molybdenum	ND	1.1	0.069	1.000
Nickel	22	1.1	0.073	1.000
Selenium	0.31	0.27	0.19	1.000
Silver	ND	0.27	0.10	1.000
Thallium	ND	0.27	0.23	1.000
Vanadium	32	0.55	0.049	1.000
Zinc	14	1.1	0.19	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	DUP100104A	Batch#:	95120
Lab ID:	175037-005	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 5%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	3.1	0.20	1.000
Arsenic	2.6	0.26	0.10	1.000
Barium	9.4	0.51	0.014	1.000
Beryllium	0.14	0.10	0.0064	1.000
Cadmium	ND	0.26	0.028	1.000
Chromium	35	0.51	0.034	1.000
Cobalt	4.4	1.0	0.078	1.000
Copper	2.9	0.51	0.059	1.000
Iron	11,000	100	16	20.00
Lead	1.3	0.15	0.066	1.000
Manganese	120	0.51	0.12	1.000
Molybdenum	ND	1.0	0.064	1.000
Nickel	21	1.0	0.068	1.000
Selenium	0.43	0.26	0.18	1.000
Silver	ND	0.26	0.10	1.000
Thallium	ND	0.26	0.22	1.000
Vanadium	28	0.51	0.045	1.000
Zinc	13	1.0	0.18	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX132[0.5]	Batch#:	95120
Lab ID:	175037-006	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 5%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	3.4	0.23	1.000
Arsenic	3.2	0.28	0.12	1.000
Barium	18	0.57	0.015	1.000
Beryllium	0.14	0.11	0.0071	1.000
Cadmium	ND	0.28	0.032	1.000
Chromium	38	0.57	0.038	1.000
Cobalt	5.2	1.1	0.086	1.000
Copper	3.9	0.57	0.065	1.000
Iron	14,000	110	18	20.00
Lead	3.5	0.17	0.073	1.000
Manganese	160	0.57	0.13	1.000
Molybdenum	ND	1.1	0.071	1.000
Nickel	22	1.1	0.076	1.000
Selenium	0.35	0.28	0.20	1.000
Silver	ND	0.28	0.12	1.000
Thallium	ND	0.28	0.24	1.000
Vanadium	39	0.57	0.051	1.000
Zinc	18	1.1	0.19	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX133[0.5]	Batch#:	95120
Lab ID:	175037-007	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 4%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.6	0.18	1.000
Arsenic	2.8	0.22	0.086	1.000
Barium	36	0.43	0.011	1.000
Beryllium	0.12	0.087	0.0054	1.000
Cadmium	ND	0.22	0.024	1.000
Chromium	35	0.43	0.029	1.000
Cobalt	4.6	0.87	0.067	1.000
Copper	4.1	0.43	0.050	1.000
Iron	12,000	87	14	20.00
Lead	2.6	0.13	0.056	1.000
Manganese	150	0.43	0.097	1.000
Molybdenum	ND	0.87	0.054	1.000
Nickel	18	0.87	0.058	1.000
Selenium	0.39	0.22	0.16	1.000
Silver	ND	0.22	0.085	1.000
Thallium	ND	0.22	0.19	1.000
Vanadium	32	0.43	0.039	1.000
Zinc	15	0.87	0.15	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX134[0.5]	Batch#:	95120
Lab ID:	175037-008	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 3%

Analyte	Result	RL	MDL	Dil'n Fac
Antimony	ND	2.4	0.16	1.000
Arsenic	2.8	0.20	0.080	1.000
Barium	16	0.40	0.011	1.000
Beryllium	0.12	0.081	0.0051	1.000
Cadmium	ND	0.20	0.023	1.000
Chromium	29	0.40	0.027	1.000
Cobalt	4.3	0.81	0.062	1.000
Copper	2.9	0.40	0.046	1.000
Iron	12,000	81	12	20.00
Lead	2.0	0.12	0.052	1.000
Manganese	120	0.40	0.090	1.000
Molybdenum	ND	0.81	0.051	1.000
Nickel	17	0.81	0.054	1.000
Selenium	0.41	0.20	0.14	1.000
Silver	ND	0.20	0.079	1.000
Thallium	ND	0.20	0.18	1.000
Vanadium	31	0.40	0.036	1.000
Zinc	14	0.81	0.13	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX135[0.5]	Batch#:	95120
Lab ID:	175037-009	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.3	0.15	1.000
Arsenic	2.6	0.19	0.077	1.000
Barium	20	0.39	0.010	1.000
Beryllium	0.14	0.077	0.0048	1.000
Cadmium	ND	0.19	0.021	1.000
Chromium	48	0.39	0.025	1.000
Cobalt	5.1	0.77	0.059	1.000
Copper	3.0	0.39	0.044	1.000
Iron	15,000	77	12	20.00
Lead	3.0	0.12	0.049	1.000
Manganese	130	0.39	0.086	1.000
Molybdenum	ND	0.77	0.048	1.000
Nickel	22	0.77	0.052	1.000
Selenium	0.25	0.19	0.13	1.000
Silver	ND	0.19	0.076	1.000
Thallium	ND	0.19	0.16	1.000
Vanadium	41	0.39	0.034	1.000
Zinc	19	0.77	0.13	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX136[0.5]	Batch#:	95120
Lab ID:	175037-010	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 3%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.3	0.15	1.000
Arsenic	2.6	0.20	0.077	1.000
Barium	9.8	0.39	0.010	1.000
Beryllium	0.15	0.078	0.0048	1.000
Cadmium	ND	0.20	0.022	1.000
Chromium	31	0.39	0.026	1.000
Cobalt	4.6	0.78	0.060	1.000
Copper	3.0	0.39	0.044	1.000
Iron	11,000	78	12	20.00
Lead	1.4	0.12	0.051	1.000
Manganese	130	0.39	0.087	1.000
Molybdenum	ND	0.78	0.048	1.000
Nickel	21	0.78	0.053	1.000
Selenium	0.26	0.20	0.13	1.000
Silver	ND	0.20	0.077	1.000
Thallium	ND	0.20	0.16	1.000
Vanadium	30	0.39	0.035	1.000
Zinc	13	0.78	0.13	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC266698	Batch#:	95120
Matrix:	Soil	Prepared:	10/04/04
Units:	mg/Kg	Analyzed:	10/04/04
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	ND	0.25	0.10
Barium	ND	0.50	0.013
Beryllium	ND	0.10	0.0063
Cadmium	ND	0.25	0.028
Chromium	ND	0.50	0.033
Cobalt	ND	1.0	0.076
Copper	ND	0.50	0.057
Iron	ND	5.0	0.80
Lead	ND	0.15	0.065
Manganese	ND	0.50	0.11
Molybdenum	ND	1.0	0.062
Nickel	ND	1.0	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	ND	0.50	0.045
Zinc	ND	1.0	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	95190
Field ID:	BB3EX130[0.5]	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/05/04
Diln Fac:	1.000	Analyzed:	10/05/04

Type	Lab ID	Result	RL	MDL	Basis	Moisture
SAMPLE	175037-003	ND	0.018	0.0035	dry	2%
BLANK	QC266954	ND	0.020	0.0039	as received	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	95120
Units:	mg/Kg	Prepared:	10/04/04
Basis:	as received	Analyzed:	10/04/04
Diln Fac:	1.000		

Type: BS Lab ID: QC266699

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.0	101	75-125
Arsenic	50.00	50.50	101	75-125
Barium	100.0	98.50	99	75-125
Beryllium	2.500	2.565	103	75-125
Cadmium	10.00	9.700	97	75-125
Chromium	100.0	99.50	100	75-125
Cobalt	25.00	24.65	99	75-125
Copper	12.50	12.85	103	75-125
Iron	1,000	967.5	97	75-125
Lead	100.0	99.50	100	75-125
Manganese	25.00	24.60	98	75-125
Molybdenum	20.00	20.35	102	75-125
Nickel	25.00	24.35	97	75-125
Selenium	50.00	49.70	99	75-125
Silver	10.00	10.10	101	75-125
Thallium	50.00	49.60	99	75-125
Vanadium	25.00	25.30	101	75-125
Zinc	25.00	24.45	98	75-125

Type: BSD Lab ID: QC266700

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	102.0	102	75-125	1	30
Arsenic	50.00	51.50	103	75-125	2	30
Barium	100.0	99.00	99	75-125	1	30
Beryllium	2.500	2.605	104	75-125	2	30
Cadmium	10.00	9.900	99	75-125	2	30
Chromium	100.0	101.0	101	75-125	1	30
Cobalt	25.00	25.00	100	75-125	1	30
Copper	12.50	13.00	104	75-125	1	30
Iron	1,000	979.5	98	75-125	1	30
Lead	100.0	101.0	101	75-125	1	30
Manganese	25.00	24.90	100	75-125	1	30
Molybdenum	20.00	20.60	103	75-125	1	30
Nickel	25.00	24.70	99	75-125	1	30
Selenium	50.00	50.50	101	75-125	2	30
Silver	10.00	10.20	102	75-125	1	30
Thallium	50.00	50.50	101	75-125	2	30
Vanadium	25.00	25.55	102	75-125	1	30
Zinc	25.00	24.80	99	75-125	1	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	95190
Field ID:	BB3EX130[0.5]	Sampled:	10/01/04
MSS Lab ID:	175037-003	Received:	10/01/04
Matrix:	Soil	Prepared:	10/05/04
Units:	mg/Kg	Analyzed:	10/05/04
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim
BS	QC266955		0.5000	0.5460	109	75-125	as received			
BSD	QC266956		0.5000	0.5400	108	75-125	as received		1	35
MS	QC266957	<0.003469	0.5102	0.5765	113	75-125	dry	2%		
MSD	QC266958		0.4813	0.5295	110	75-125	dry	2%	3	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX128[0.5]	Batch#:	95120
MSS Lab ID:	175037-001	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04
Diln Fac:	1.000		

Type: MS Moisture: 15%
Lab ID: QC266701

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.485	85.25	44.76	51 *	75-125
Arsenic	4.162	42.63	42.63	90	75-125
Barium	122.0	85.25	229.3	126 *	75-125
Beryllium	0.4122	2.131	2.383	92	75-125
Cadmium	<0.02235	8.525	7.161	84	75-125
Chromium	114.8	85.25	203.3	104	75-125
Cobalt	17.77	21.31	48.17	143 *	75-125
Copper	18.49	10.66	30.01	108	75-125
Iron	28,460	852.5	28,740 >LR	34 NM	75-125
Lead	4.682	85.25	80.14	89	75-125
Manganese	548.2	21.31	942.0 >LR	1848 NM	75-125
Molybdenum	0.2741	17.05	15.00	86	75-125
Nickel	154.5	21.31	203.3	229 NM	75-125
Selenium	0.7003	42.63	37.72	87	75-125
Silver	<0.07882	8.525	7.502	88	75-125
Thallium	<0.1647	42.63	37.13	87	75-125
Vanadium	58.02	21.31	81.84	112	75-125
Zinc	40.82	21.31	62.66	102	75-125

Type: MSD Moisture: 15%
Lab ID: QC266702

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	106.0	62.53	58 *	75-125	12	30
Arsenic	52.99	52.15	91	75-125	0	30
Barium	106.0	220.5	93	75-125	13	30
Beryllium	2.650	2.846	92	75-125	1	30
Cadmium	10.60	8.850	84	75-125	1	30
Chromium	106.0	214.6	94	75-125	4	30
Cobalt	26.50	47.06	111	75-125	15	30
Copper	13.25	31.64	99	75-125	3	30
Iron	1,060	28,520 >LR	6 NM	75-125	NC	30
Lead	106.0	99.63	90	75-125	1	30
Manganese	26.50	699.5	571 NM	75-125	NC	30
Molybdenum	21.20	18.81	87	75-125	1	30
Nickel	26.50	189.7	133 NM	75-125	10	30
Selenium	52.99	47.91	89	75-125	2	30
Silver	10.60	9.486	90	75-125	2	30
Thallium	52.99	45.84	87	75-125	1	30
Vanadium	26.50	86.38	107	75-125	1	30
Zinc	26.50	66.24	96	75-125	2	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX128[0.5]	Basis:	dry
Type:	Serial Dilution	Batch#:	95120
MSS Lab ID:	175037-001	Sampled:	10/01/04
Lab ID:	QC266703	Received:	10/01/04
Matrix:	Soil	Analyzed:	10/04/04
Units:	mg/Kg		

Moisture: 15%

Analyte	MSS Result	MSS RL	Result	RL	MDL	% Diff	Lim	Diln Fac
Antimony	ND	2.401	1.5 J	12	0.80		10	5.000
Arsenic	4.162	0.2001	3.8	1.0	0.40	10	10	5.000
Barium	122.0	0.4002	120	2.0	0.054	0	10	5.000
Beryllium	0.4122	0.08003	0.46	0.40	0.025	12 *	10	5.000
Cadmium	ND	0.2001	ND	1.0	0.11		10	5.000
Chromium	114.8	0.4002	120	2.0	0.13	5	10	5.000
Cobalt	17.77	0.8003	19	4.0	0.31	6	10	5.000
Copper	18.49	0.4002	18	2.0	0.22	0	10	5.000
Iron	28,460	40.02	27,000	200	32	4	10	50.00
Lead	4.682	0.1200	4.8	0.60	0.26	3	10	5.000
Manganese	548.2	0.4002	540	2.0	0.45	1	10	5.000
Molybdenum	ND	0.8003	ND	4.0	0.25		10	5.000
Nickel	154.5	0.8003	170	4.0	0.27	8	10	5.000
Selenium	0.7003	0.2001	ND	1.0	0.71		10	5.000
Silver	ND	0.2001	ND	1.0	0.40		10	5.000
Thallium	ND	0.2001	ND	1.0	0.85		10	5.000
Vanadium	58.02	0.4002	60	2.0	0.18	3	10	5.000
Zinc	40.82	0.8003	43	4.0	0.68	5	10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Method: 6010B Standard: blank
Run Time: 10/04/04 07:19:42

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	-.001	.001	.004	-.247	.004	.001
SDev	.001	.000	.001	.001	.000	.001	.000
%RSD	53.9	16.3	47.7	29.8	.130	15.7	37.2
#1	-.002	-.001	.001	.005	-.247	.003	.001
#2	-.001	-.000	.001	.003	-.247	.004	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.008	.008	-.000	.003	.003	-.007
SDev	.000	.000	.004	.000	.002	.002	.000
%RSD	59.2	.830	51.5	11.5	65.9	72.0	2.68
#1	-.000	.008	.011	-.000	.005	.005	-.007
#2	-.001	.008	.005	-.000	.002	.001	-.008

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	-.001	-.005	.000	.035	.0485	-.0018
SDev	.001	.001	.001	.000	.000	.0003	.0002
%RSD	6.33	214.	13.6	3.05	.625	.5948	10.59
#1	.007	.000	-.004	.000	.035	.0482	-.0017
#2	.007	-.001	-.005	.000	.035	.0487	-.0020

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0013	.0002	.001	.244
SDev	.0003	.0001	.000	.000
%RSD	23.92	25.51	21.4	.102
#1	-.0010	.0002	.001	.243
#2	-.0015	.0002	.001	.244

Method: 6010B Standard: cst hi
Run Time: 10/04/04 07:23:14

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.36	.779	.289	17.3	3.21	1.19	.261
SDev	.00	.002	.001	.0	.00	.00	.000
%RSD	.120	.254	.478	.015	.021	.234	.170
#1	1.36	.781	.288	17.3	3.21	1.19	.261
#2	1.36	.778	.290	17.3	3.21	1.19	.262

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.818	.526	.950	.959	2.25	2.01	.316
SDev	.001	.001	.000	.001	.01	.01	.004
%RSD	.082	.199	.043	.077	.585	.304	1.11
#1	.818	.526	.950	.960	2.24	2.01	.314
#2	.819	.525	.950	.959	2.26	2.01	.319

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.352	.311	.199	.958	.209	.1632	.3493
SDev	.003	.003	.003	.000	.000	.0009	.0000
%RSD	.910	.862	1.29	.020	.095	.5755	.0017
#1	.350	.309	.198	.959	.209	.1639	.3493
#2	.355	.313	.201	.958	.209	.1625	.3493

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1318	.1907	1.21	7.64
SDev	.0002	.0003	.00	.00
%RSD	.1508	.1636	.100	.049
#1	.1317	.1909	1.21	7.64
#2	.1319	.1905	1.21	7.63

Standardization Report 10/04/04 07:27:06 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	730.784	.942817	10/04/04 07:23:14
Sb206A	206.832	Multiple	Standards	1256.88	.687654	10/04/04 07:23:14
As1890	189.042	Multiple	Standards	1736.09	-1.90138	10/04/04 07:23:14
Ba4934	493.409	Multiple	Standards	57.9391	-.238188	10/04/04 07:23:14
Be3130	313.042	Multiple	Standards	27.9352	6.89343	10/04/04 07:23:14
Cd2265	226.502	Multiple	Standards	84.3063	-.328720	10/04/04 07:23:14
Cr2677	267.716	Multiple	Standards	767.404	-.504128	10/04/04 07:23:14
Co2286	228.616	Multiple	Standards	612.154	.334188	10/04/04 07:23:14
Cu3247	324.754	Multiple	Standards	386.438	-3.10993	10/04/04 07:23:14
Pb2203	220.351	Multiple	Standards	531.425	-4.26863	10/04/04 07:23:14
Pb220A	220.352	Multiple	Standards	516.514	.163252	10/04/04 07:23:14
Mo2020	202.030	Multiple	Standards	444.793	-1.53259	10/04/04 07:23:14
Ni2316	231.604	Multiple	Standards	248.961	-.748837	10/04/04 07:23:14
Se1960	196.021	Multiple	Standards	1544.33	11.4095	10/04/04 07:23:14
Se196A	196.022	Multiple	Standards	1446.27	-10.3714	10/04/04 07:23:14
Ag3280	328.068	Multiple	Standards	321.057	.182250	10/04/04 07:23:14
Tl1908	190.864	Multiple	Standards	2465.18	12.2478	10/04/04 07:23:14
V_2924	292.402	Multiple	Standards	522.058	-.247402	10/04/04 07:23:14
Zn2138	213.856	Multiple	Standards	591.814	-20.6195	10/04/04 07:23:14
Al3082	308.215	Multiple	Standards	8877.90	-430.137	10/04/04 07:23:14
Ca3179	317.933	Multiple	Standards	5695.26	10.5168	10/04/04 07:23:14
Fe2714	271.441	Multiple	Standards	7866.67	9.93536	10/04/04 07:23:14
Mg2790	279.079	Multiple	Standards	10494.6	-2.16967	10/04/04 07:23:14
Mn2576	257.610	Multiple	Standards	82.7074	-.090402	10/04/04 07:23:14
Pb sum	220.353	NONE	NONE	1.00000	.000000	*10/04/04 07:23:14
Sb sum	206.838	NONE	NONE	1.00000	.000000	*10/04/04 07:23:14
Se sum	196.026	NONE	NONE	1.00000	.000000	*10/04/04 07:23:14
Ti3349	334.941	Multiple	Standards	135.268	-32.9419	10/04/04 07:23:14

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74400767001 Filename : tr249955 Injected : 04-OCT-2004 07:27
Caltype :

Standards: 04WS1530

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	991.1000	ug/L	-1	5	
Antimony	1000.000	1000.000	ug/L	0	5	
Arsenic	500.0000	498.0000	ug/L	0	5	
Barium	1000.000	990.0000	ug/L	-1	5	
Beryllium	100.0000	100.0000	ug/L	0	5	
Cadmium	100.0000	100.0000	ug/L	0	5	
Calcium	2000.000	2007.000	ug/L	0	5	
Chromium	200.0000	200.0000	ug/L	0	5	
Cobalt	500.0000	501.0000	ug/L	0	5	
Copper	200.0000	199.0000	ug/L	-1	5	
Iron	1000.000	995.7000	ug/L	0	5	
Lead	500.0000	504.0000	ug/L	1	5	
Magnesium	2000.000	2007.000	ug/L	0	5	
Manganese	100.0000	99.80000	ug/L	0	5	
Molybdenum	1000.000	998.0000	ug/L	0	5	
Nickel	500.0000	500.0000	ug/L	0	5	
Selenium	500.0000	500.0000	ug/L	0	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	499.0000	ug/L	0	5	
Titanium	1000.000	997.0000	ug/L	0	5	
Vanadium	500.0000	499.0000	ug/L	0	5	
Zinc	100.0000	100.0000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767002
Run Name :
Filename : tr249956
Injected : 04-OCT-2004 07:46
Caltype :

Standards: 04WS1577

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	500.0000	493.7000	ug/L	-1	10
Antimony	500.0000	508.0000	ug/L	2	10
Arsenic	250.0000	251.0000	ug/L	0	10
Barium	500.0000	495.0000	ug/L	-1	10
Beryllium	50.00000	50.40000	ug/L	1	10
Cadmium	50.00000	50.50000	ug/L	1	10
Calcium	1000.000	1014.000	ug/L	1	10
Chromium	100.0000	102.0000	ug/L	2	10
Cobalt	250.0000	247.0000	ug/L	-1	10
Copper	100.0000	103.0000	ug/L	3	10
Iron	500.0000	492.2000	ug/L	-2	10
Lead	250.0000	253.0000	ug/L	1	10
Magnesium	1000.000	1006.000	ug/L	1	10
Manganese	50.00000	49.20000	ug/L	-2	10
Molybdenum	500.0000	506.0000	ug/L	1	10
Nickel	250.0000	252.0000	ug/L	1	10
Selenium	250.0000	253.0000	ug/L	1	10
Silver	50.00000	50.30000	ug/L	1	10
Thallium	250.0000	248.0000	ug/L	-1	10
Titanium	500.0000	516.0000	ug/L	3	10
Vanadium	250.0000	249.0000	ug/L	0	10
Zinc	50.00000	50.70000	ug/L	1	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74400767004 Filename : tr249958 Injected : 04-OCT-2004 08:05
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	97.55000	ug/L	-2	50	
Antimony	60.00000	63.40000	ug/L	6	50	
Arsenic	5.000000	5.650000	ug/L	13	50	
Barium	10.00000	10.00000	ug/L	0	50	
Beryllium	2.000000	1.960000	ug/L	-2	50	
Cadmium	5.000000	5.160000	ug/L	3	50	
Calcium	200.0000	209.8000	ug/L	5	50	
Chromium	10.00000	10.30000	ug/L	3	50	
Cobalt	20.00000	19.50000	ug/L	-3	50	
Copper	10.00000	10.10000	ug/L	1	50	
Iron	100.0000	101.5000	ug/L	2	50	
Lead	3.000000	3.230000	ug/L	8	50	
Magnesium	200.0000	201.0000	ug/L	1	50	
Manganese	10.00000	9.900000	ug/L	-1	50	
Molybdenum	20.00000	19.10000	ug/L	-5	50	
Nickel	20.00000	19.90000	ug/L	-1	50	
Selenium	5.000000	2.690000	ug/L	-46	50	
Silver	5.000000	5.310000	ug/L	6	50	
Thallium	5.000000	7.130000	ug/L	43	50	
Vanadium	10.00000	10.30000	ug/L	3	50	
Zinc	20.00000	20.20000	ug/L	1	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767014

Run Name :
Filename : tr249968

IDF : 1.0
Injected : 04-OCT-2004 09:20
Caltype :

Standards: 04WS1578

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	508.1000	ug/L	2	10	
Antimony		500.0000	515.0000	ug/L	3	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	491.0000	ug/L	-2	10	
Beryllium		50.00000	51.10000	ug/L	2	10	
Cadmium		50.00000	49.90000	ug/L	0	10	
Calcium		1000.000	1063.000	ug/L	6	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	249.0000	ug/L	0	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	511.3000	ug/L	2	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1016.000	ug/L	2	10	
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	508.0000	ug/L	2	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	257.0000	ug/L	3	10	
Silver		50.00000	51.70000	ug/L	3	10	
Thallium		250.0000	247.0000	ug/L	-1	10	
Titanium		500.0000	513.0000	ug/L	3	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	54.20000	ug/L	8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767026
Run Name :
Filename : tr249980
IDF : 1.0
Injected : 04-OCT-2004 10:28
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	786.8000	ug/L	5	10	
Antimony		750.0000	784.0000	ug/L	5	10	
Arsenic		375.0000	392.0000	ug/L	5	10	
Barium		750.0000	747.0000	ug/L	0	10	
Beryllium		75.00000	78.60000	ug/L	5	10	
Cadmium		75.00000	77.20000	ug/L	3	10	
Calcium		1500.000	1530.000	ug/L	2	10	
Chromium		150.0000	157.0000	ug/L	5	10	
Cobalt		375.0000	383.0000	ug/L	2	10	
Copper		150.0000	156.0000	ug/L	4	10	
Iron		750.0000	805.9000	ug/L	7	10	
Lead		375.0000	393.0000	ug/L	5	10	
Magnesium		1500.000	1583.000	ug/L	6	10	
Manganese		75.00000	75.70000	ug/L	1	10	
Molybdenum		750.0000	781.0000	ug/L	4	10	
Nickel		375.0000	390.0000	ug/L	4	10	
Selenium		375.0000	401.0000	ug/L	7	10	
Silver		75.00000	76.90000	ug/L	3	10	
Thallium		375.0000	376.0000	ug/L	0	10	
Titanium		750.0000	782.0000	ug/L	4	10	
Vanadium		375.0000	381.0000	ug/L	2	10	
Zinc		75.00000	78.70000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767038

Run Name :
Filename : tr249992

IDF : 1.0
Injected : 04-OCT-2004 11:40
Caltype :

Standards: 04WS1864

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	496.7000	ug/L	-1	10	
Antimony		500.0000	490.0000	ug/L	-2	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	51.30000	ug/L	3	10	
Calcium		1000.000	978.6000	ug/L	-2	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	491.3000	ug/L	-2	10	
Lead		250.0000	252.0000	ug/L	1	10	
Magnesium		1000.000	998.2000	ug/L	0	10	
Manganese		50.00000	49.10000	ug/L	-2	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	252.0000	ug/L	1	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	50.50000	ug/L	1	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	514.0000	ug/L	3	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	53.30000	ug/L	7	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767050

Run Name :
Filename : tr250004

IDF : 1.0
Injected : 04-OCT-2004 12:46
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	766.5000	ug/L	2	10	
Antimony		750.0000	769.0000	ug/L	3	10	
Arsenic		375.0000	385.0000	ug/L	3	10	
Barium		750.0000	761.0000	ug/L	1	10	
Beryllium		75.00000	75.70000	ug/L	1	10	
Cadmium		75.00000	77.40000	ug/L	3	10	
Calcium		1500.000	1474.000	ug/L	-2	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	372.0000	ug/L	-1	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	783.8000	ug/L	5	10	
Lead		375.0000	380.0000	ug/L	1	10	
Magnesium		1500.000	1521.000	ug/L	1	10	
Manganese		75.00000	73.90000	ug/L	-1	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	383.0000	ug/L	2	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	75.60000	ug/L	1	10	
Thallium		375.0000	370.0000	ug/L	-1	10	
Titanium		750.0000	779.0000	ug/L	4	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	76.50000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767061

Run Name :
Filename : tr250015

IDF : 1.0
Injected : 04-OCT-2004 13:38
Caltype :

Standards: 04WS1864

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	499.7000	ug/L	0	10	
Antimony		500.0000	506.0000	ug/L	1	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	505.0000	ug/L	1	10	
Beryllium		50.00000	50.70000	ug/L	1	10	
Cadmium		50.00000	52.70000	ug/L	5	10	
Calcium		1000.000	944.2000	ug/L	-6	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	474.5000	ug/L	-5	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	993.1000	ug/L	-1	10	
Manganese		50.00000	47.90000	ug/L	-4	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	255.0000	ug/L	2	10	
Silver		50.00000	49.20000	ug/L	-2	10	
Thallium		250.0000	244.0000	ug/L	-2	10	
Titanium		500.0000	513.0000	ug/L	3	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	54.80000	ug/L	10	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767073

Run Name :
Filename : tr250027

IDF : 1.0
Injected : 04-OCT-2004 14:33
Caltype :

Standards: 04WS1864

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	583.0000	ug/L	17	10	c+ **
Antimony		500.0000	520.0000	ug/L	4	10	
Arsenic		250.0000	262.0000	ug/L	5	10	
Barium		500.0000	513.0000	ug/L	3	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	52.90000	ug/L	6	10	
Calcium		1000.000	1027.000	ug/L	3	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	96.40000	ug/L	-4	10	
Iron		500.0000	515.5000	ug/L	3	10	
Lead		250.0000	258.0000	ug/L	3	10	
Magnesium		1000.000	1073.000	ug/L	7	10	
Manganese		50.00000	49.00000	ug/L	-2	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	260.0000	ug/L	4	10	
Selenium		250.0000	261.0000	ug/L	4	10	
Silver		50.00000	49.20000	ug/L	-2	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	53.30000	ug/L	7	10	

+=high bias c=CCV

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767003 Run Name:
Filename: tr249957 Run Type: ICB

Injected: 04-OCT-2004 07:53

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.3500]	5.000000	ug/L	<RL
Titanium	[1.1900]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767015 Run Name: Injected: 04-OCT-2004 09:25
Filename: tr249969 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	[3.7300]	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[21.220]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[2.4200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767027 Run Name: Injected: 04-OCT-2004 10:32
Filename: tr249981 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[32.230]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	[0.7240]	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[3.5800]	5.000000	ug/L	<RL
Titanium	[3.5900]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767039 Run Name:
Filename: tr249993 Run Type: CCB

Injected: 04-OCT-2004 11:47

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.4890]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[12.170]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.0300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767051 Run Name: Injected: 04-OCT-2004 12:50
Filename: tr250005 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.7870]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[45.070]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[10.190]	500.0000	ug/L	<RL
Manganese	[0.6160]	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.9800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767062 Run Name:
Filename: tr250016 Run Type: CCB

Injected: 04-OCT-2004 13:42

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	[4.9300]	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[1.0400]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[13.420]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[4.1500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767074 Run Name:
Filename: tr250028 Run Type: CCB

Injected: 04-OCT-2004 14:37

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[87.670]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[1.4000]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[24.490]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[27.210]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[5.6400]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74400767005 Run Name:
Filename: tr249959 Run Type: ICSA

Injected: 04-OCT-2004 08:12

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[6.4300]	60.00000	ug/L	<RL
Arsenic	[-1.320]	5.000000	ug/L	<RL
Barium	[-0.227]	10.00000	ug/L	<RL
Beryllium	[-0.820]	2.000000	ug/L	<RL
Cadmium	[-0.299]	5.000000	ug/L	<RL
Chromium	[3.1300]	10.00000	ug/L	<RL
Cobalt	[0.3140]	10.00000	ug/L	<RL
Copper	[-2.110]	10.00000	ug/L	<RL
Lead	[-0.921]	3.000000	ug/L	<RL
Manganese	[3.7900]	10.00000	ug/L	<RL
Molybdenum	[-1.500]	20.00000	ug/L	<RL
Nickel	[2.2100]	20.00000	ug/L	<RL
Selenium	[1.3800]	5.000000	ug/L	<RL
Silver	[-0.557]	5.000000	ug/L	<RL
Thallium	[2.1800]	5.000000	ug/L	<RL
Titanium	27.80000	10.00000	ug/L	<RL a+ ***
Vanadium	[-2.900]	10.00000	ug/L	<RL
Zinc	[2.2400]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	553000	ug/L	111
Calcium	500000	472300.	ug/L	94
Iron	200000	187100	ug/L	94
Magnesium	500000	544900	ug/L	109

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Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767006
Run Name :
Filename : tr249960
Injected : 04-OCT-2004 08:16
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	540400.0	ug/L	8		
Antimony	500.0000	553.0000	ug/L	11	20	
Arsenic	500.0000	539.0000	ug/L	8	20	
Barium	500.0000	491.0000	ug/L	-2	20	
Beryllium	500.0000	503.0000	ug/L	1	20	
Cadmium	1000.000	933.0000	ug/L	-7	20	
Calcium	500000.0	465800.0	ug/L	-7		
Chromium	500.0000	486.0000	ug/L	-3	20	
Cobalt	500.0000	481.0000	ug/L	-4	20	
Copper	500.0000	525.0000	ug/L	5	20	
Iron	200000.0	184700.0	ug/L	-8		
Lead	1000.000	988.0000	ug/L	-1	20	
Magnesium	500000.0	539600.0	ug/L	8		
Manganese	500.0000	478.0000	ug/L	-4	20	
Molybdenum	500.0000	514.0000	ug/L	3	20	
Nickel	1000.000	917.0000	ug/L	-8	20	
Selenium	500.0000	540.0000	ug/L	8	20	
Silver	1000.000	924.0000	ug/L	-8	20	
Thallium	500.0000	506.0000	ug/L	1	20	
Titanium	20000.00	22100.00	ug/L	11		
Vanadium	500.0000	491.0000	ug/L	-2	20	
Zinc	1000.000	1020.000	ug/L	2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74400767072

Run Name :
Filename : tr250026

Injected : 04-OCT-2004 14:28
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	500200.0	ug/L	0		
Antimony	500.0000	569.0000	ug/L	14	20	
Arsenic	500.0000	561.0000	ug/L	12	20	
Barium	500.0000	520.0000	ug/L	4	20	
Beryllium	500.0000	491.0000	ug/L	-2	20	
Cadmium	1000.000	1000.000	ug/L	0	20	
Calcium	500000.0	445700.0	ug/L	-11		
Chromium	500.0000	493.0000	ug/L	-1	20	
Cobalt	500.0000	485.0000	ug/L	-3	20	
Copper	500.0000	518.0000	ug/L	4	20	
Iron	200000.0	181900.0	ug/L	-9		
Lead	1000.000	1010.000	ug/L	1	20	
Magnesium	500000.0	541300.0	ug/L	8		
Manganese	500.0000	468.0000	ug/L	-6	20	
Molybdenum	500.0000	516.0000	ug/L	3	20	
Nickel	1000.000	963.0000	ug/L	-4	20	
Selenium	500.0000	551.0000	ug/L	10	20	
Silver	1000.000	917.0000	ug/L	-8	20	
Thallium	500.0000	520.0000	ug/L	4	20	
Titanium	20000.00	22400.00	ug/L	12		
Vanadium	500.0000	493.0000	ug/L	-1	20	
Zinc	1000.000	1050.000	ug/L	5	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74400767 Instrument: MET07 TJA Trace ICP Begun: 04-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	tr249955	CS				04-OCT-2004 07:27	1.0	1.0				1	
002	tr249956	ICV				04-OCT-2004 07:46	1.0	1.0				2	
003	tr249957	ICB				04-OCT-2004 07:53	1.0	1.0					
004	tr249958	CRI				04-OCT-2004 08:05	1.0	1.0				3	
005	tr249959	ICSA				04-OCT-2004 08:12	1.0	1.0	1			4	4:AL=553000
006	tr249960	ICSAB				04-OCT-2004 08:16	1.0	1.0				5	5:AL=540400
007	tr249961	BLANK	QC266698	95120	Soil	04-OCT-2004 08:22	1.0	50.0	1				
008	tr249962	BS	QC266699	95120	Soil	04-OCT-2004 08:26	1.0	50.0	1				
009	tr249963	BSD	QC266700	95120	Soil	04-OCT-2004 08:30	1.0	50.0	1				
010	tr249964	MSS	175037-001	95120	Soil	04-OCT-2004 08:52	1.0	34.01	4				4:FE=846600
011	tr249965	MSS	175037-001	95120	Soil	04-OCT-2004 08:56	1.0	34.01	4				4:FE=843300
012	tr249966	SER	QC266703	95120	Soil	04-OCT-2004 09:00	5.0	34.01		1			2:FE=176000
013	tr249967	X	QC266704	95120	Soil	04-OCT-2004 09:05	1.0	34.01				6 7	4:FE=849000
014	tr249968	CCV				04-OCT-2004 09:20	1.0	1.0				8	
015	tr249969	CCB				04-OCT-2004 09:25	1.0	1.0					
016	tr249970	MSS	175037-001	95120	Soil	04-OCT-2004 09:29	1.0	34.01	4				4:FE=654400
017	tr249971	SER	QC266703	95120	Soil	04-OCT-2004 09:34	5.0	34.01		3			1:FE=133800
018	tr249972	PDS	QC266704	95120	Soil	04-OCT-2004 09:39	1.0	34.01		1		6 7	4:FE=656900
019	tr249973	MSS	175037-001	95120	Soil	04-OCT-2004 09:45	10.0	34.01	1				
020	tr249974	SER	QC266703	95120	Soil	04-OCT-2004 09:49	50.0	34.01					
021	tr249975	MS	QC266701	95120	Soil	04-OCT-2004 09:54	1.0	36.23		1			5:FE=674300
022	tr249976	MSD	QC266702	95120	Soil	04-OCT-2004 09:59	1.0	45.05					4:FE=538200
023	tr249977	SAMPLE	175036-002	95120	Soil	04-OCT-2004 10:06	1.0	45.87					3:FE=378000
024	tr249978	SAMPLE	175036-003	95120	Soil	04-OCT-2004 10:10	1.0	47.62					3:FE=353300
025	tr249979	SAMPLE	175036-004	95120	Soil	04-OCT-2004 10:18	1.0	47.17					3:FE=383300
026	tr249980	CCV				04-OCT-2004 10:28	1.0	1.0				9	
027	tr249981	CCB				04-OCT-2004 10:32	1.0	1.0					
028	tr249982	SAMPLE	175036-005	95120	Soil	04-OCT-2004 10:40	1.0	53.76					3:FE=308600
029	tr249983	SAMPLE	175036-006	95120	Soil	04-OCT-2004 10:44	1.0	52.63					3:FE=335900
030	tr249984	SAMPLE	175036-007	95120	Soil	04-OCT-2004 10:48	1.0	40.98					3:FE=410700
031	tr249985	SAMPLE	175036-008	95120	Soil	04-OCT-2004 10:52	1.0	46.30					3:FE=369000

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS1578 9=04WS1679 10=04WS1864

Analyst: Mei Wu Date: 10/4/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74400767 Instrument: MET07 TJA Trace ICP Begun: 04-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr249986	SAMPLE	175036-009	95120	Soil	04-OCT-2004 10:56	1.0	41.67			3:FE=349700
033	tr249987	SAMPLE	175036-010	95120	Soil	04-OCT-2004 11:00	1.0	30.12			3:FE=527700
034	tr249988	SAMPLE	175037-002	95120	Soil	04-OCT-2004 11:05	1.0	48.54	2		1:FE=157200
035	tr249989	SAMPLE	175037-002	95120	Soil	04-OCT-2004 11:10	1.0	48.54	1		1:FE=156200
036	tr249990	SAMPLE	175037-003	95120	Soil	04-OCT-2004 11:14	1.0	33.56	1		3:FE=378100
037	tr249991	SAMPLE	175037-004	95120	Soil	04-OCT-2004 11:22	1.0	52.63	2		1:FE=213900
038	tr249992	CCV				04-OCT-2004 11:40	1.0	1.0		10	
039	tr249993	CCB				04-OCT-2004 11:47	1.0	1.0			
040	tr249994	SAMPLE	175037-004	95120	Soil	04-OCT-2004 11:58	1.0	52.63	1		1:FE=203400
041	tr249995	SAMPLE	175037-005	95120	Soil	04-OCT-2004 12:02	1.0	48.54	1		1:FE=195200
042	tr249996	SAMPLE	175037-006	95120	Soil	04-OCT-2004 12:06	1.0	53.76	1		2:FE=234600
043	tr249997	SAMPLE	175037-007	95120	Soil	04-OCT-2004 12:10	1.0	41.67	1		2:FE=264200
044	tr249998	SAMPLE	175037-005	95120	Soil	04-OCT-2004 12:17	1.0	48.54	1		1:FE=193700
045	tr249999	SAMPLE	175037-007	95120	Soil	04-OCT-2004 12:21	1.0	41.67	1		2:FE=264200
046	tr250000	SAMPLE	175037-008	95120	Soil	04-OCT-2004 12:25	1.0	39.06	2		2:FE=271300
047	tr250001	SAMPLE	175037-008	95120	Soil	04-OCT-2004 12:30	1.0	39.06	1		2:FE=270800
048	tr250002	SAMPLE	175037-009	95120	Soil	04-OCT-2004 12:34	1.0	38.17	1		3:FE=348500
049	tr250003	SAMPLE	175037-010	95120	Soil	04-OCT-2004 12:39	1.0	37.88	1		2:FE=265000
050	tr250004	CCV				04-OCT-2004 12:46	1.0	1.0		9	
051	tr250005	CCB				04-OCT-2004 12:50	1.0	1.0			
052	tr250006	SAMPLE	175037-002	95120	Soil	04-OCT-2004 12:55	20.0	48.54			
053	tr250007	SAMPLE	175037-003	95120	Soil	04-OCT-2004 12:59	20.0	33.56			
054	tr250008	SAMPLE	175037-004	95120	Soil	04-OCT-2004 13:03	20.0	52.63			
055	tr250009	SAMPLE	175037-005	95120	Soil	04-OCT-2004 13:07	20.0	48.54			
056	tr250010	SAMPLE	175037-006	95120	Soil	04-OCT-2004 13:11	20.0	53.76			
057	tr250011	SAMPLE	175037-007	95120	Soil	04-OCT-2004 13:15	20.0	41.67			
058	tr250012	SAMPLE	175037-008	95120	Soil	04-OCT-2004 13:20	20.0	39.06			
059	tr250013	SAMPLE	175037-009	95120	Soil	04-OCT-2004 13:24	20.0	38.17	1		
060	tr250014	SAMPLE	175037-010	95120	Soil	04-OCT-2004 13:28	20.0	37.88			
061	tr250015	CCV				04-OCT-2004 13:38	1.0	1.0		10	
062	tr250016	CCB				04-OCT-2004 13:42	1.0	1.0			

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS1578 9=04WS1679 10=04WS1864

Analyst: Mercer Date: 10/4/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74400767 Instrument: MET07 TJA Trace ICP Begun: 04-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	tr250017	BLANK	QC266711	95122	Water	04-OCT-2004 13:47	1.0	1.0	1		
064	tr250018	BS	QC266712	95122	Water	04-OCT-2004 13:51	1.0	1.0	2		
065	tr250019	BSD	QC266713	95122	Water	04-OCT-2004 13:55	1.0	1.0	2		
066	tr250020	MSS	175029-001	95122	Water	04-OCT-2004 14:01	1.0	1.0	1		
067	tr250021	MS	QC266714	95122	Water	04-OCT-2004 14:05	1.0	1.0	1		1:CA=114000
068	tr250022	MSD	QC266715	95122	Water	04-OCT-2004 14:09	1.0	1.0			
069	tr250023	SAMPLE	175036-001	95122	Water	04-OCT-2004 14:14	1.0	1.0			
070	tr250024	SAMPLE	175036-011	95122	Water	04-OCT-2004 14:18	1.0	1.0			
071	tr250025	SAMPLE	175034-001	95122	Water	04-OCT-2004 14:22	1.0	1.0			
072	tr250026	ICSAB				04-OCT-2004 14:28	1.0	1.0		5	5:MG=541300
073	tr250027	CCV				04-OCT-2004 14:33	1.0	1.0	1	10	
074	tr250028	CCB				04-OCT-2004 14:37	1.0	1.0			

368

Stds used: 1=04WS1530 2=04WS1577 3=04WS1488 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS1578 9=04WS1679 10=04WS1864

Analyst: [illegible] Date: 10/8/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 175037 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	TL	V	ZN
175037-001	MET07	10/04/04 08:52	1.0																			
175037-001	MET07	10/04/04 08:56	1.0																			
175037-001	MET07	10/04/04 09:29	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175037-001	MET07	10/04/04 09:45	10.0									+										
175037-002	MET07	10/04/04 11:05	1.0	+	+	+	+	+	+	+	+		+	+		+	+		+	+	+	+
175037-002	MET07	10/04/04 11:10	1.0															+				
175037-002	MET07	10/04/04 12:55	20.0									+										
175037-003	MET07	10/04/04 11:14	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175037-003	MET07	10/04/04 12:59	20.0									+										
175037-003	MET04	10/05/04 19:05	1.0												+							
175037-004	MET07	10/04/04 11:22	1.0	+	+	+	+	+	+	+	+		+	+		+	+		+	+	+	+
175037-004	MET07	10/04/04 11:58	1.0															+				
175037-004	MET07	10/04/04 13:03	20.0									+										
175037-005	MET07	10/04/04 12:02	1.0	+	+	+	+	+	+	+	+		+	+		+	+		+	+	+	+
175037-005	MET07	10/04/04 12:17	1.0															+				
175037-005	MET07	10/04/04 13:07	20.0									+										
175037-006	MET07	10/04/04 12:06	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175037-006	MET07	10/04/04 13:11	20.0									+										
175037-007	MET07	10/04/04 12:10	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175037-007	MET07	10/04/04 12:21	1.0																			
175037-007	MET07	10/04/04 13:15	20.0									+										
175037-008	MET07	10/04/04 12:25	1.0	+	+	+	+	+	+	+	+		+	+		+	+		+	+	+	+
175037-008	MET07	10/04/04 12:30	1.0															+				
175037-008	MET07	10/04/04 13:20	20.0									+										
175037-009	MET07	10/04/04 12:34	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175037-009	MET07	10/04/04 13:24	20.0									+										
175037-010	MET07	10/04/04 12:39	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175037-010	MET07	10/04/04 13:28	20.0									+										
QC266698	MET07	10/04/04 08:22	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC266699	MET07	10/04/04 08:26	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC266700	MET07	10/04/04 08:30	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC266701	MET07	10/04/04 09:54	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC266702	MET07	10/04/04 09:59	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 175037 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	TL	V	ZN
QC266703	MET07	10/04/04 09:00	5.0																			
QC266703	MET07	10/04/04 09:34	5.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC266703	MET07	10/04/04 09:49	50.0									+										
QC266704	MET07	10/04/04 09:39	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC266954	MET04	10/05/04 18:59	1.0												+							
QC266955	MET04	10/05/04 19:01	1.0												+							
QC266956	MET04	10/05/04 19:03	1.0												+							
QC266957	MET04	10/05/04 19:08	1.0												+							
QC266958	MET04	10/05/04 19:10	1.0												+							

Folder: [illegible]
Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 2 16:19:56 05 Oct 04 HG

Hg .000 ppb 1547

*** Standard: 2 Rep: 1 Seq: 3 16:21:46 05 Oct 04 HG

Hg .200 ppb 17847

*** Standard: 3 Rep: 1 Seq: 4 16:23:47 05 Oct 04 HG

Hg .500 ppb 24124

*** Standard: 4 Rep: 1 Seq: 5 16:26:19 05 Oct 04 HG

Hg 2.00 ppb 109632

*** Standard: 5 Rep: 1 Seq: 6 16:28:13 05 Oct 04 HG

Hg 5.00 ppb 267297

*** Standard: 6 Rep: 1 Seq: 7 16:30:17 05 Oct 04 HG

Hg 10.0 ppb 517023

*** Check Standard: 2 Ck2WS1869 Seq: 8 16:35:13 05 Oct 04 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.	5.31	5.00	ppb	.000 %

*** Check Standard: 1 Ck1ICB Seq: 9 16:37:04 05 Oct 04 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.123	.000	ppb	.000 %

*** Sample ID: QC266890 Seq: 10 16:38:58 05 Oct 04 HG

95170,1

Hg -.069 ppb .000 % -.069

*** Sample ID: QC266891 Seq: 11 16:41:11 05 Oct 04 HG

95170,1

Hg 5.21 ppb .000 % 5.21

*** Sample ID: QC266892 Seq: 12 16:44:15 05 Oct 04 HG

95170,1

Hg 5.17 ppb .000 % 5.17

File Utility Help

Protocol hgppb

Dataset/Proto 100504A /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.93759e-5

C -7.73826e-2

Rho .999772

Type Linear

☑ Calibrated

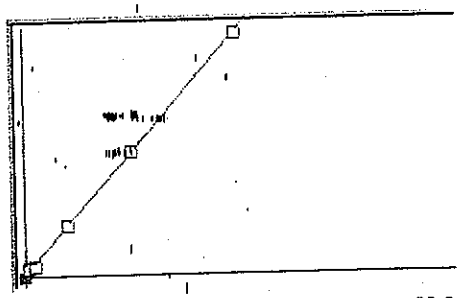
☑ Accepted

Accept

Rel.Abs.
517023

Accepted

New



Include S1 Rep 1☑ 2☐ 3☐ 4☐ 5☐

Conc. 20.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.047	-.047	1548	1	1547		
02	.20000	.268	.068	17848	0%	17847		
03	.50000	.390	-.110	24124	0%	24124		
04	2.0000	2.05	.047	109632	0%	109632		
05	5.0000	5.10	.102	267298	0%	267297		
06	10.000	9.94	-.060	517023	0%	517023		

CAP NUM

Ready

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 05-OCT-2004

Sequence: 44402892 Instrument: MET04 HydraAA HG Analyzer
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	95190	CCV					05-OCT-2004 18:52	1.0	1.0	1	5.000	44402739001	5.090		ug/L	102		
002	95190	CCB					05-OCT-2004 18:54	1.0	1.0			44402739001	ND	0.20	ug/L			
003	95190	BLANK	QC266954		95190	Soil	05-OCT-2004 18:59	1.0	100.0			44402739001	ND	0.020	mg/Kg			u
004	95190	BS	QC266955		95190	Soil	05-OCT-2004 19:01	1.0	100.0		0.5000	44402739001	0.5460	0.020	mg/Kg	109		u
005	95190	BSD	QC266956		95190	Soil	05-OCT-2004 19:03	1.0	100.0		0.5000	44402739001	0.5400	0.020	mg/Kg	108	1	u
006	95190	MSS	175037-003		95190	Soil	05-OCT-2004 19:05	1.0	86.21			44402739001	ND	0.017	mg/Kg			u
007	95190	MS	QC266957	175037-003	95190	Soil	05-OCT-2004 19:08	1.0	100.0		0.5000	44402739001	0.5650	0.020	mg/Kg	113		u
008	95190	MSD	QC266958	175037-003	95190	Soil	05-OCT-2004 19:10	1.0	94.34		0.4717	44402739001	0.5189	0.019	mg/Kg	110	3	u
009	95190	SAMPLE	175022-004		95190	Soil	05-OCT-2004 19:13	1.0	102.0			44402739001	0.037	0.020	mg/Kg			u
010	95190	SAMPLE	175022-005		95190	Soil	05-OCT-2004 19:15	1.0	104.2			44402739001	ND	0.021	mg/Kg			u
011	95190	SAMPLE	175065-001		95190	Soil	05-OCT-2004 19:17	1.0	87.72			44402739001	0.025	0.018	mg/Kg			u
012	95190	CCV					05-OCT-2004 19:19	1.0	1.0	2	2.500	44402739001	2.640		ug/L	106		
013	95190	CCB					05-OCT-2004 19:21	1.0	1.0			44402739001	ND	0.20	ug/L			
014	95190	SAMPLE	175065-002		95190	Soil	05-OCT-2004 19:24	1.0	92.59			44402739001	0.088	0.019	mg/Kg			u
015	95190	SAMPLE	175065-003		95190	Soil	05-OCT-2004 19:26	1.0	90.91			44402739001	0.065	0.018	mg/Kg			u
016	95190	SAMPLE	175065-004		95190	Soil	05-OCT-2004 19:28	1.0	87.72			44402739001	0.12	0.018	mg/Kg			u
017	95190	SAMPLE	175072-001		95190	Soil	05-OCT-2004 19:29	1.0	90.91			44402739001	0.027	0.018	mg/Kg			u
018	95190	SAMPLE	175072-002		95190	Soil	05-OCT-2004 19:31	1.0	87.72			44402739001	ND	0.018	mg/Kg			u
019	95190	CCV					05-OCT-2004 19:33	1.0	1.0	3	7.500	44402739001	8.420		ug/L	112		
020	95190	CCB					05-OCT-2004 19:35	1.0	1.0			44402739001	ND	0.20	ug/L			

Stds used: 1=04WS1871 2=04WS1870 3=04WS1872
Flags used: u=use

Analyst: [signature] Date: 10/5/04

Curtis & Tompkins Laboratories Sample Preparation Summary 05-OCT-2004 17:26

Batch Number : 95190
Date Extracted: 05-OCT-2004
Extracted by : Morris Luong Tran
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : 04WS1867
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F	Clean D.F	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175022-004			Montezuma Wetlands LLC	Soil	.49	g	50	102.040816	1					HG		
175022-005			Montezuma Wetlands LLC	Soil	.48	g	50	104.166667	1					HG		
175037-003			Treadwell & Rollo	Soil	.58	g	50	86.206897	1					HG		
175065-001			URS Corporation	Soil	.57	g	50	87.719298	1					T26/HG		
175065-002			URS Corporation	Soil	.54	g	50	92.592593	1					T26/HG		
175065-003			URS Corporation	Soil	.55	g	50	90.909091	1					T26/HG		
175065-004			URS Corporation	Soil	.57	g	50	87.719298	1					T26/HG		
175072-001			URS Corporation	Soil	.55	g	50	90.909091	1					T26/HG		
175072-002			URS Corporation	Soil	.57	g	50	87.719298	1					T26/HG		
QC266954	MB			Soil	.5	g	50	100.000000	1					HG		
QC266955	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC266956	BSD	of QC266955		Soil	.5	g	50	100.000000	1		2.5			HG		
QC266957	MS	of 175037-003		Soil	.5	g	50	100.000000	1		2.5			HG		
QC266958	MSD	of 175037-003		Soil	.53	g	50	94.339623	1		2.5			HG		
QC266959	SER	of 175037-003		Soil	.58	g	50	86.206897	1					HG		

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 95190

Date Digested: 10/05/04

Digested by: MMS

Digestion Method

☒ EPA 7471A

☐ _____

BK 1930

Page 98

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
175022 - 4	0.49	50.0	y	Comp 3 containers
5	0.48			
175065 - 1	0.57			Comp 4 containers
2	0.54			
3	0.55			
4	0.57			
175077 - 3 A	0.53			
175072 - 1	0.55			
2	0.57			
MS	0.50			
175077 - 3 B MS	0.50			
3 B MSD	0.53			
BS	0.50			
BSD	0.50			

	Reagent ID/ LIMS# / Time	Initials / Date
ϕ = 2.5 mL of spike solution was added to all spikes	DMWS 1867	MMS 10/5/04
ICAL Source WS#	DMWS 1867	
ICV / CCV WS#	DMWS 1869/10/31/02	
Digestion of Samples & Standards: Time ON / Temperature ON	5:20 Pm / 95°C	
Time OFF/ Temperature OFF	5:50 Pm / 95°C	
Aqua Regia	AR100504	
5% $KMnO_4$	K092204	
NaCl.hydroxylamine hydrochloride	HY 092204	
Stannous Chloride	SnCl2 100404	
☐ filtered thru' 0.45 um syringe filter	3 NN 60036 millipore	

10/5/04

Prep Chemist / Date

Continued from page ϕ

Continued on page ϕ

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary 04-OCT-2004 06:59

Batch Number : 95120
Date Extracted: 04-OCT-2004
Extracted by : Victor Vergara
Prep Method : 3050

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F	Clean D.F	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175036-002			Presidio Trust	Soil	1.09	g	50	45.871560	1					PB		
175036-003			Presidio Trust	Soil	1.05	g	50	47.619048	1					PB		
175036-004			Presidio Trust	Soil	1.06	g	50	47.169811	1					PB		
175036-005			Presidio Trust	Soil	.93	g	50	53.763441	1					PB		
175036-006			Presidio Trust	Soil	.95	g	50	52.631579	1					PB		
175036-007			Presidio Trust	Soil	1.22	g	50	40.983607	1					PB		
175036-008			Presidio Trust	Soil	1.08	g	50	46.296296	1					PB		
175036-009			Presidio Trust	Soil	1.2	g	50	41.666667	1					PB		
175036-010			Presidio Trust	Soil	1.66	g	50	30.120482	1					PB		
175037-001			Treadwell & Rollo	Soil	1.47	g	50	34.013605	1					T26/ICP		mss
175037-002			Treadwell & Rollo	Soil	1.03	g	50	48.543689	1					T26/ICP		
175037-003			Treadwell & Rollo	Soil	1.49	g	50	33.557047	1					T26/ICP		
175037-004			Treadwell & Rollo	Soil	.95	g	50	52.631579	1					T26/ICP		
175037-005			Treadwell & Rollo	Soil	1.03	g	50	48.543689	1					T26/ICP		
175037-006			Treadwell & Rollo	Soil	.93	g	50	53.763441	1					T26/ICP		
175037-007			Treadwell & Rollo	Soil	1.2	g	50	41.666667	1					T26/ICP		
175037-008			Treadwell & Rollo	Soil	1.28	g	50	39.062500	1					T26/ICP		
175037-009			Treadwell & Rollo	Soil	1.31	g	50	38.167939	1					T26/ICP		
175037-010			Treadwell & Rollo	Soil	1.32	g	50	37.878788	1					T26/ICP		
QC266698	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC266699	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC266700	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC266701	MS	of 175037-001		Soil	1.38	g	50	36.231884	1		.5	.5		ICAP		
QC266702	MSD	of 175037-001		Soil	1.11	g	50	45.045045	1		.5	.5		ICAP		
QC266703	SER	of 175037-001		Soil	1.47	g	50	34.013605	1					ICAP		
QC266704	PDS	of 175037-001		Soil	1.47	g	50	34.013605	1					ICAP		

Prep Chemist: for VV Reviewed By: Date: 10/04/04

Relinquished By: for VV Received By: Date: 10/04/04

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 95120
Date Digested: 10/1/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 2000
Page 38

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BK-QC 266698		Ø	500	Y	
*	BS 266699					
*	BSD 266700					
*	175037-001 MS	A	1.38			
*	001 MSD		1.11			
	175036-002	A	1.09			
	-003		1.05			
	-004		1.06			
	-005		0.93			
10	-006		0.95			
	-007		1.22			
	-008		1.08			
	-009		1.20			
	-010		1.66			
15	175037-001	A	1.47			MSS
	-002		1.83			
	-003		1.49			
	-004		0.95			
	-005		1.03			
20	-006		0.93			
	-007		1.20			
	-008		1.28			
	-009		1.31			
	-010		1.32			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	VV 10/1/04
DS mL of spike solution was added to all spikes	04SS171 *	
	04SS172 *	
1:1 HNO3	A26032-092704	
concentrated HNO3	A26032- JTBaker	
3mL 30% hydrogen peroxide	14413842S- VWR	
" " " concentrated HCl	A18060-JTBaker	
☒ filtered thru' Whatman # 541	E1560057	

10/1/04
Extraction Chemist / Date

Continued from page Ø
Continued on page Ø

10/04/04
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050B

Analyte	Units	MET01	MET07	MET08 A	MET08 R
Aluminum	mg/Kg	07/26/04 1.5	07/21/04 0.52		09/10/04 1.3
Antimony	mg/Kg	07/20/04 1.3	07/21/04 0.20	09/10/04 0.076	
Arsenic	mg/Kg	07/26/04 2.8	07/20/04 0.10	09/10/04 0.10	
Barium	mg/Kg	07/27/04 0.098	07/21/04 0.013		09/10/04 0.033
Beryllium	mg/Kg	07/20/04 0.029	07/21/04 0.0063	09/10/04 0.0056	
Cadmium	mg/Kg	07/20/04 0.14	07/21/04 0.028	09/10/04 0.0076	
Calcium	mg/Kg	07/26/04 2.8	07/21/04 0.58		09/10/04 1.5
Chromium	mg/Kg	07/20/04 0.29	07/21/04 0.033	09/10/04 0.013	
Cobalt	mg/Kg	07/20/04 0.39	07/21/04 0.076	09/10/04 0.0087	
Copper	mg/Kg	07/20/04 0.11	07/21/04 0.057	09/10/04 0.069	
Iron	mg/Kg	07/20/04 1.5	07/21/04 0.80		09/10/04 0.33
Lead	mg/Kg	07/26/04 7.9	07/20/04 0.065	09/10/04 0.078	
Magnesium	mg/Kg	07/20/04 1.5	07/21/04 0.52		09/10/04 1.2
Manganese	mg/Kg	07/20/04 0.11	07/20/04 0.11		09/10/04 0.023
Molybdenum	mg/Kg	07/20/04 0.43	07/21/04 0.062	09/10/04 0.032	
Nickel	mg/Kg	07/20/04 0.64	07/21/04 0.067	09/10/04 0.017	
Potassium	mg/Kg	07/27/04 18			09/17/04 3.7
Selenium	mg/Kg	07/27/04 8.1	07/21/04 0.17	09/10/04 0.18	
Silver	mg/Kg	07/26/04 0.18	07/21/04 0.098	09/10/04 0.032	
Sodium	mg/Kg	07/26/04 2.8			09/17/04 3.2
Thallium	mg/Kg	07/26/04 9.5	07/21/04 0.21	09/10/04 0.17	
Vanadium	mg/Kg	07/20/04 0.14	07/21/04 0.045	09/10/04 0.039	
Zinc	mg/Kg	07/20/04 0.17	07/21/04 0.17		09/10/04 0.091
Boron	mg/Kg	07/27/04 3.1		09/17/04 0.32	
Tin	mg/Kg	07/26/04 1.0		09/17/04 0.085	
Titanium	mg/Kg	07/26/04 0.099			09/17/04 0.068

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Soil

Analyte	Units	MET03		MET04	
Mercury	mg/Kg	05/15/03	0.0050	03/30/04	0.0039

CHLORINATED HERBICIDES

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Curtis & Tompkins
Attention: Steve Stanley
2323 Fifth Street
Berkeley CA 94710
Tel: (510)486-0900 Fax: (510)486-0532

Service ID #: 801-044778
Collected by:
Collected on: 10/01/04

Received: 10/05/04
Extracted: 10/06/04
Tested: 10/05-08/04
Reported: 10/11/04

Sample Description: Soil
Project Description: 175037 Presidio-Baker Beach 3

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result BB3EX130[0.5] 04-04778-1
MOISTURE	ASTM-D2216	%Moisture	0.5	5.9
CHLORINATED HERBICIDES				
Dilution Factor				1
2,4-D	8151A	mg/kg	0.025	<0.027
2,4 DB	8151A	mg/kg	0.1	<0.11
DALAPON	8151A	mg/kg	0.1	<0.11
DICAMBA	8151A	mg/kg	0.01	<0.011
DICHLOROPROP	8151A	mg/kg	0.025	<0.027
DINOSEB (DNBP)	8151A	mg/kg	0.025	<0.027
MCPA	8151A	mg/kg	5	<5.3
MCPP	8151A	mg/kg	5	<5.3
2,4,5-T	8151A	mg/kg	0.01	<0.011
2,4,5-TP (SILVEX)	8151A	mg/kg	0.01	<0.011

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Level C Data Package Deliverables

General Information

Project: 175037

APCL Service ID: 04-4778

Applied P & CH Laboratories
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: Presidio-Baker Beach 3/175037

For Curtis & Tompkins

APCL Service No: 04-4778

1. Sample Identification

The sample identifications are listed in the following table:

Curtis & Tompkins Sample ID	APCL Sample ID
BB3EX130[0.5]	04-04778-1

2. Analytical Methodology

Samples are analyzed by EPA methods

8151A (Chlorinated herbicides),
ASTM-D2216 (Moisture, percent in soil),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL III

Project Number: 175037
Site: Presidio-Baker Beach 3

Subcontract Laboratory:
APCL
13760 Magnolia Ave.
Chino, CA 91710
(909) 590-1828
ATTN: Kenny Chan x163

Results due: 10/04/04 Report Level: III

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
BB3EX130[0.5]	10/01	Soil	8150	175037-003	

4778

Notes:	Relinquished By:	Received By:
	Date/Time: 10/4/04 10:00	Date/Time: 10/5/04 1130

Signature on this form constitutes a firm Purchase Order for the services requested above.
Page 1 of 1

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 4778 **Client Name/Project:** Curtis + Tompkins

1. Sample Arrival

Date/Time Received 12/5/04 1150 Date/Time Opened 12/5/04 1130 By (name): Jason A.

Custody Transfer: ☐ Client ☐ Golden State ☒ ~~UPS~~ Courier ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

2. Chain-of-Custody (CoC)

☒ With Samples? ☐ Faxed? ☒ Client has Copy? ☒ Signed, dated? By: _____
☒ Project ID? ☒ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received _____
☒ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☒ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None
Temp °C 3.0 _____ _____ _____ _____ _____
(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).
Cooler Custody Seal? ☐ Absent ☒ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12
If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☒ Intact? ☐ Broken? ☐ Documented? Number: _____
Type: ☐ plastic ☒ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☒ Quantity OK? ☐ Leaking? ☐ Anomaly?
☒ Caps tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☒ Unique ID? ☒ Date/Time ☐ Preserved?

7. Turn Around Time

☒ RUSH TAT: 5 days ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☒ ALL OK? (if not, attach docs) ☐ Client Contact? (Name: _____)Date/Time: _____

Received/Checked by: _____ Printed: 5 Oct 2004 7:14 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

04-04778 (0900_ 125) (4860900_ 125)

10/05/04

Part 1: General Information

☐	Company Information	Name:	*Curtis & Tompkins*
		Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
☐	Project Information	Project Description:	*Presidio-Baker Beach 3*
		Project #:	*175037*
☐	Billing Information	P.O. #:	
		Bill Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
		Lab Project ID:	
		Client Database #:	*1*
☐	Receiving Information	Who Received Sample?	*Jason Nario*
		Receiving Date/Time:	*10/05/04 1130*
		COC No.	
☐	Shipping Information	Shipping Company	*Express*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*3.0 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA C*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	BB3EX130[0.5]		04-04778-1	S	J		125	1	G	100104	N	0	7	☐

Part 3: Analysis Information

Test Items:

- ☐ *8151A* Chlorinated herbicides
- ☐ *8141A* Organo-phosphorus
- ☐ *ASTM-D2216* Moisture, percent in soil
- ☐ *9040B/150.1* pH

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	HERBICIDE	ORGANO	moist	pH	
1	BB3EX130[0.5]		04-04778-1	S	X		X	X	☐

☐ Client"s Requirement: **PLEASE USE CLIENTS CONTROL LIMITS**

Login By JASON M. NARIO

Check By BK

Level C Data Package Deliverables

Chlorinated Herbicides

Applied P & Ch Laboratory

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	175037	Collection Date:	10/06/2004
Project ID:	Presidio-Baker Beach 3	Service ID:	44778	Collected by:	-
		Lab Sample ID:	04G3696-MB-01	Received Date:	10/06/2004
Sample ID:	**04G3696-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	10/06/04	Anal. Date:	10/07/04
Batch No:	04G3696	Prep. No:	1 of 1	Anal. Time:	13:28
Data File Name:	3696G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	89
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	73
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	175037	Collection Date:	10/01/2004
Project ID:	Presidio-Baker Beach 3	Service ID:	44778	Collected by:	
		Lab Sample ID:	04-4778-1	Received Date:	10/05/2004
Sample ID:	**BB3EX130[0.5]**	Sample Matrix	Soil	Moisture %:	5.9
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	10/06/04	Anal. Date:	10/08/04
Batch No:	04G3696	Prep. No:	1 of 1	Anal. Time:	13:56
Data File Name:	4778.101	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.027	<0.027	U
2	2,4 DB	94-82-6	mg/kg	0.11	<0.11	U
3	DALAPON	75-99-0	mg/kg	0.11	<0.11	U
4	DICAMBA	1918-00-9	mg/kg	0.011	<0.011	U
5	DICHLOROPROP	120-36-5	mg/kg	0.027	<0.027	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.027	<0.027	U
7	MCPA	94-74-6	mg/kg	5.3	<5.3	U
8	MCPP	93-65-2	mg/kg	5.3	<5.3	U
9	2,4,5-T	93-76-5	mg/kg	0.011	<0.011	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.011	<0.011	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	81
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	88
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	44778
Project ID:	Presidio-Baker Beach 3	Project No:	175037	Sample Matrix:	Soil
		Batch No:	04G3696		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G3696-MB-01	04G3696-MB-01	89	0
2	04G3696-LCS-01	04G3696-LCS-01	91	0
3	04G3696-LSD-01	04G3696-LSD-01	89	0
4	0690MS	04-4784-5MS	96	0
5	0690MSD	04-4784-5MSD	95	0
6	BB3EX130[0.5]	04-4778-1	81	0
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* - Values outside of contract required QC Limits D - Surrogate diluted out I - Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	44778
Project ID:	Presidio-Baker Beach 3	Project No:	175037	Sample Matrix:	Soil
		Batch No:	04G3696		
LCS Filename:	3696G.L01	Date Analyzed:	100704	Time Analyzed:	14:09
LCSD Filename:	3696G.J01	Date Analyzed:	100704	Time Analyzed:	15:34

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0574	115	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0450	90	65-135
2,4,5-T	mg/kg	0.050	0	0.0444	89	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0597	119	3	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0452	90	0	35	65-135
2,4,5-T	mg/kg	0.050	0.0444	89	0	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-3D

Applied P & CH Laboratories

Matrix Spike/Matrix Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	44778
Project ID:	Presidio-Baker Beach 3	Project No:	175037	Sample Matrix:	Soil
		Batch No:	04G3696		
MS Filename:	3696G.M01	Date Analyzed:	100704	Time Analyzed:	16:15
MSD Filename:	3696G.N01	Date Analyzed:	100704	Time Analyzed:	16:56
MS Sample No:	0690	Sample Lab ID:	04-4784-5	Moisture, %	

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0476	95	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0486	97	65-135
2,4,5-T	mg/kg	0.050	0	0.0414	83	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0470	94	1	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0486	97	0	35	65-135
2,4,5-T	mg/kg	0.050	0.0414	83	0	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-4B

Applied P & CH Laboratories

Method Blank Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	44778
Project ID:	Presidio-Baker Beach 3	Project No:	175037	Analysis Date:	10/07/04
		Sample Matrix:	Soil	Analysis Time:	13:28
Sample ID:	**04G3696-MB-01**	Batch No:	04G3696	Instrument ID:	GC: T
Lab Sample ID:	04G3696-MB-01	Data File Name:	3696G.K01	GC Column:	DB-608
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	04G3696-LCS-01	04G3696-LCS-01	Lab Control Spike	3696G.L01	10/07/04	14:09
2	04G3696-LSD-01	04G3696-LSD-01	Lab Control Spike Duplicate	3696G.J01	10/07/04	15:34
3	0690MS	04-4784-5MS	Matrix Spike	3696G.M01	10/07/04	16:15
4	0690MSD	04-4784-5MSD	Matrix Spike Duplicate	3696G.N01	10/07/04	16:56
5	BB3EX130[0.5]	04-4778-1	Field Sample	4778.101	10/08/04	13:56
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

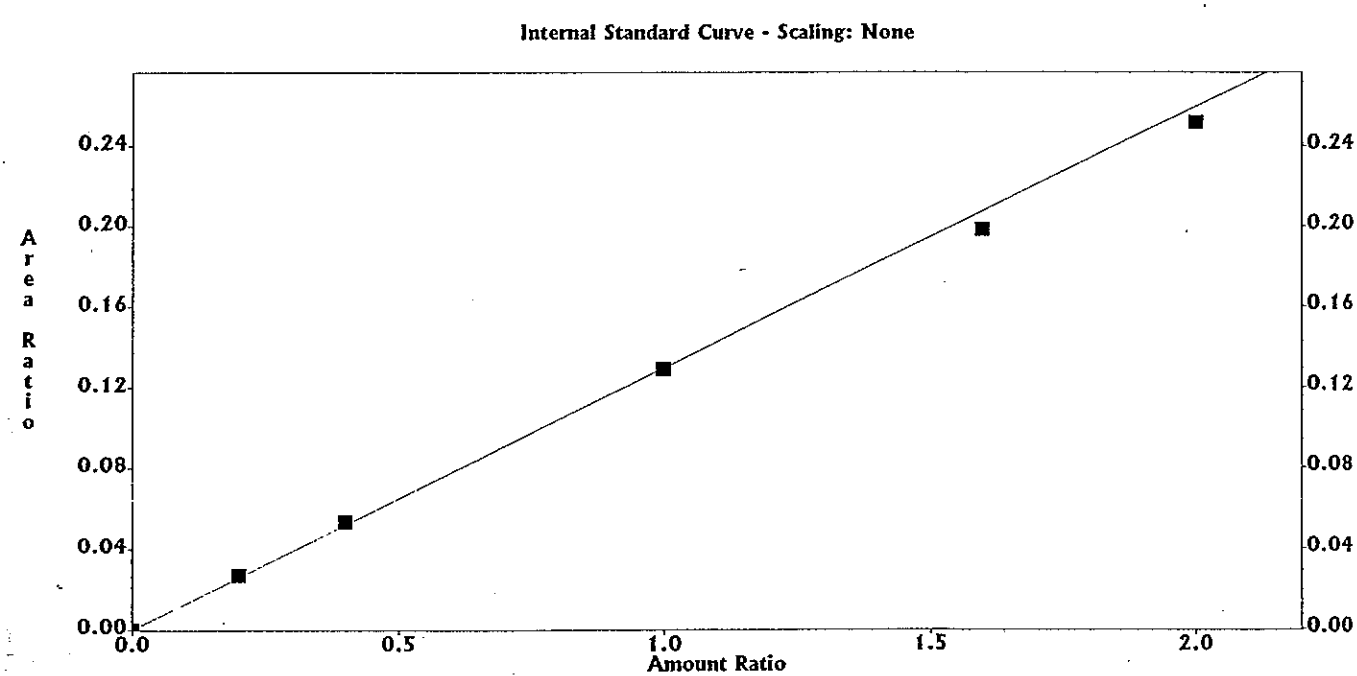
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 1 Dalapon

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0271	0.2	0.1355	0.0271							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1294	1	0.1294	0.1294							0
4	0.1985	1.6	0.124	0.1985							0
5	0.2517	2	0.1259	0.2517							0

Calib Flag: Replace

Average RF: 0.129749
RF StdDev: 0.00496077
RF %RSD: 3.823

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.129749



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

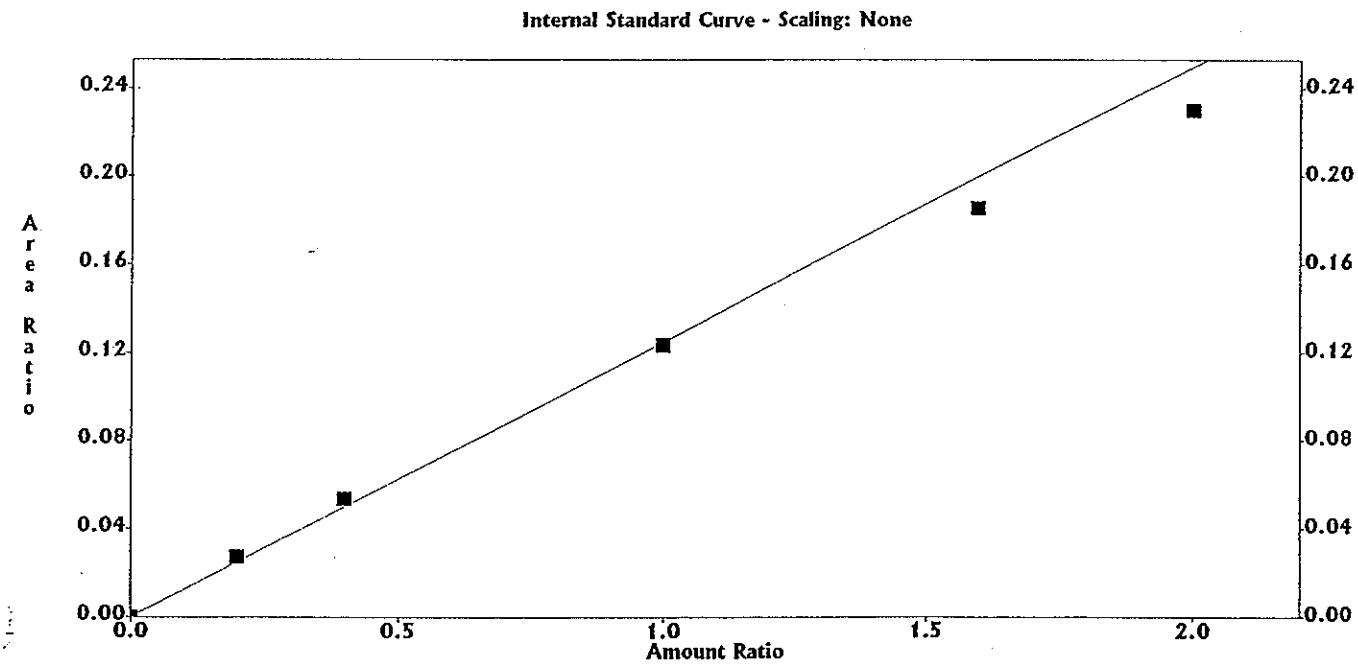
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0273	0.2	0.1364	0.0273							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1236	1	0.1236	0.1236							0
4	0.1858	1.6	0.1161	0.1858							0
5	0.2304	2	0.1152	0.2304							0

Calib Flag: Replace

Average RF: 0.125046
RF StdDev: 0.0098334
RF %RSD: 7.864

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.125046



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 3 4-Nitrophenol

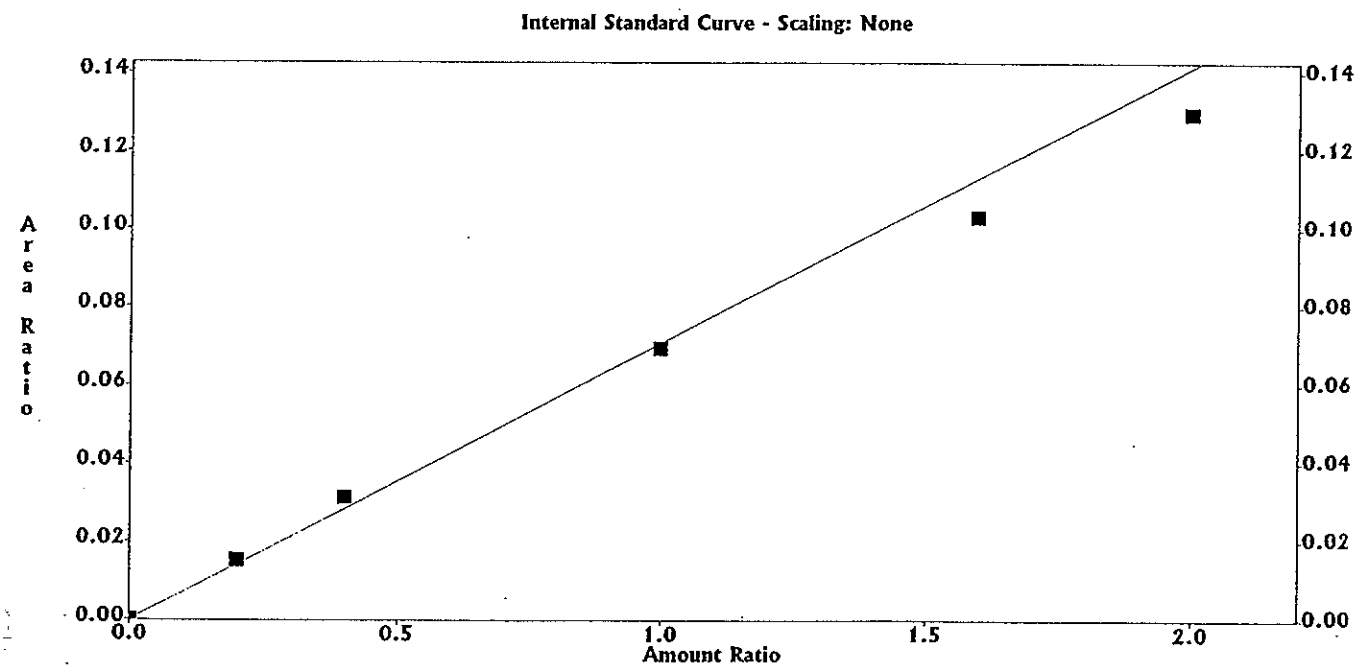
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0153	0.2	0.07642	0.0153							0
2	0.0314	0.4	0.07839	0.0314							0
3	0.0695	1	0.06947	0.0695							0
4	0.1032	1.6	0.06452	0.1032							0
5	0.1297	2	0.06487	0.1297							0

Calib Flag: Replace

Average RF: 0.0707316
RF StdDev: 0.00643509
RF %RSD: 9.098

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0707316



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 4 DCAA(Surr)

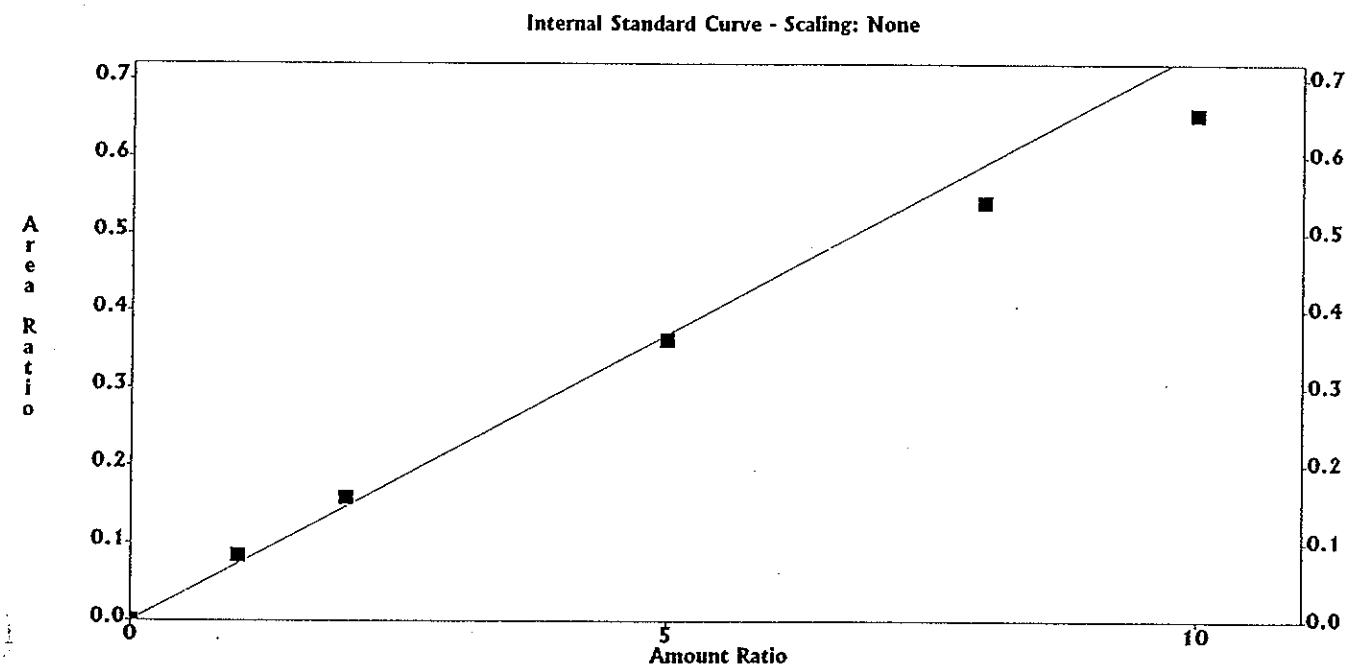
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0843	1	0.08426	0.0843							0
2	0.1594	2	0.07968	0.1594							0
3	0.3617	5	0.07235	0.3617							0
4	0.5408	8	0.06759	0.5408							0
5	0.6554	10	0.06554	0.6554							0

Calib Flag: Replace

Average RF: 0.0738852
RF StdDev: 0.0079487
RF %RSD: 10.758

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0738852



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 5 Dicamba

* - Replicate Not Used

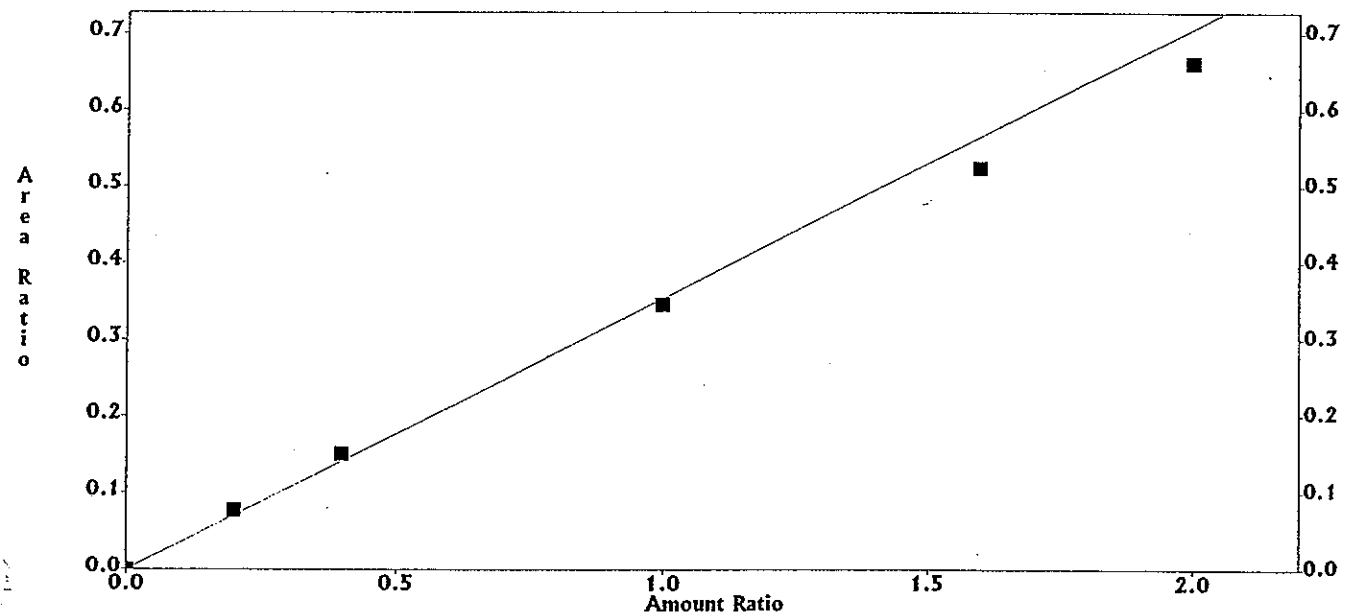
.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0773	0.2	0.3866	0.0773							0
2	0.1507	0.4	0.3767	0.1507							0
3	0.3455	1	0.3455	0.3455							0
4	0.5239	1.6	0.3275	0.5239							0
5	0.6620	2	0.331	0.6620							0

Calib Flag: Replace

Average RF: 0.353447
RF StdDev: 0.0268465
RF %RSD: 7.596

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.353447

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 6 MCPP(ppm)

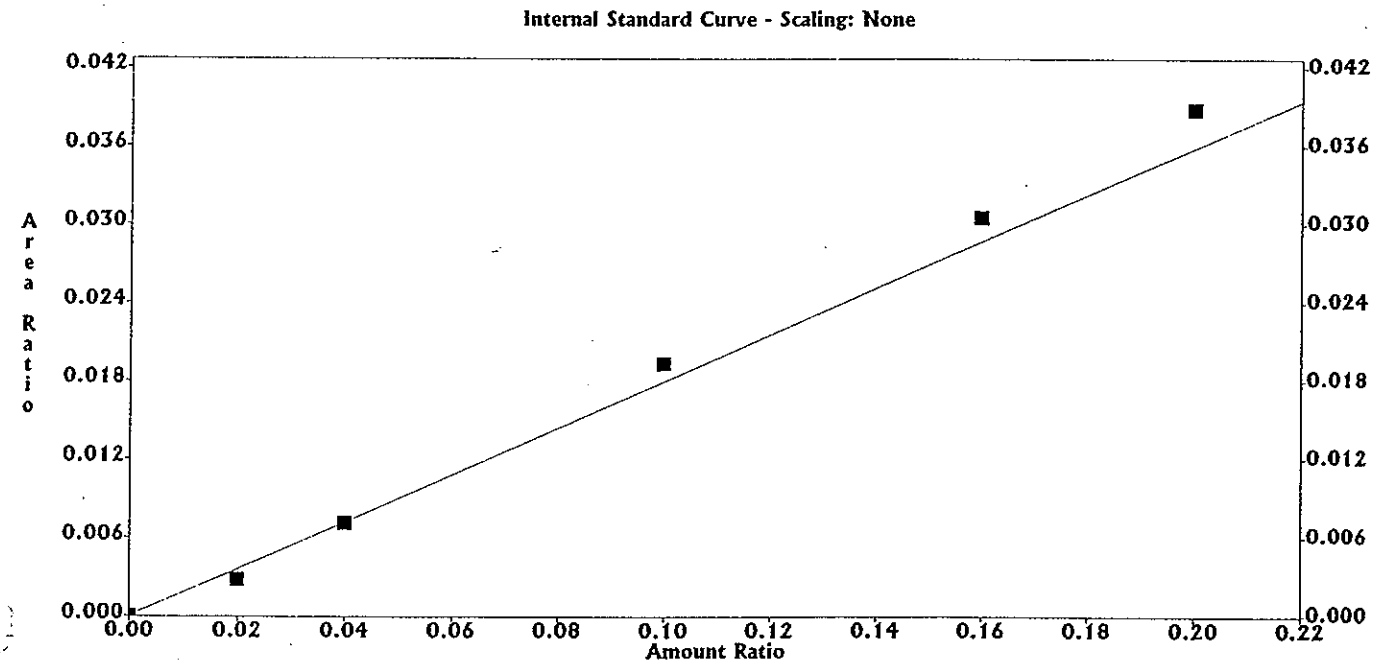
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0028	0.02	0.14	0.0028							0
2	0.0071	0.04	0.1782	0.0071							0
3	0.0193	0.1	0.1933	0.0193							0
4	0.0305	0.16	0.1908	0.0305							0
5	0.0388	0.2	0.194	0.0388							0

Calib Flag: Replace

Average RF: 0.179235
RF StdDev: 0.0228742
RF %RSD: 12.762

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.179235



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 7 MCPA(PPm)

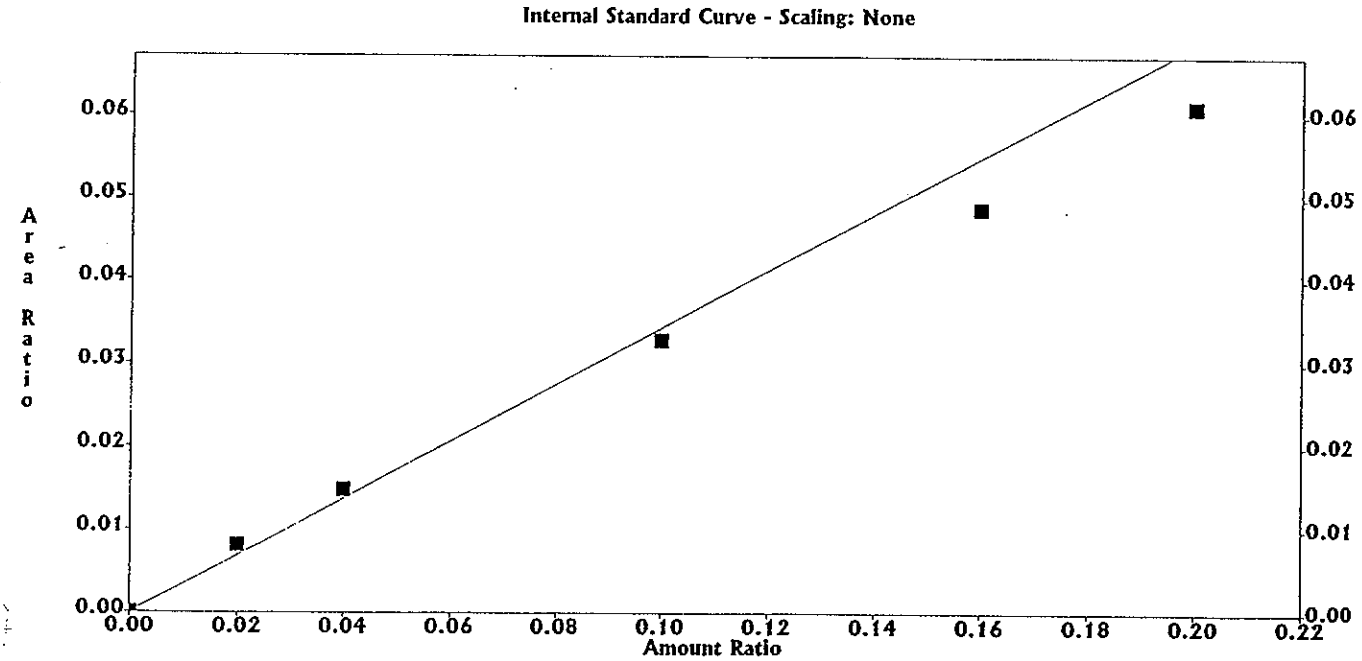
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0082	0.02	0.4079	0.0082							0
2	0.0149	0.04	0.3713	0.0149							0
3	0.0329	0.1	0.3285	0.0329							0
4	0.0487	0.16	0.3047	0.0487							0
5	0.0611	0.2	0.3054	0.0611							0

Calib Flag: Replace

Average RF: 0.343572
RF StdDev: 0.0450119
RF %RSD: 13.101

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.343572



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 8 Dichloroprop

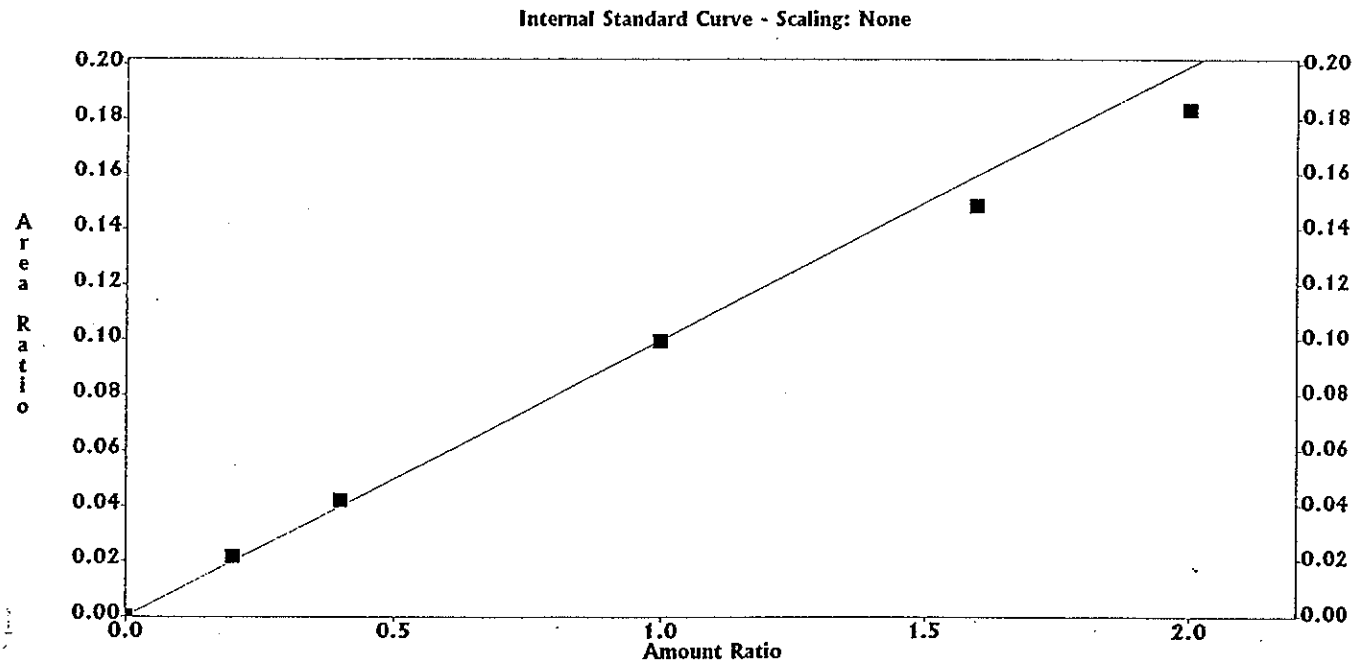
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0218	0.2	0.109	0.0218							0
2	0.0422	0.4	0.1054	0.0422							0
3	0.0996	1	0.09957	0.0996							0
4	0.1485	1.6	0.09284	0.1485							0
5	0.1836	2	0.0918	0.1836							0

Calib Flag: Replace

Average RF: 0.0997123
RF StdDev: 0.00754369
RF %RSD: 7.565

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0997123



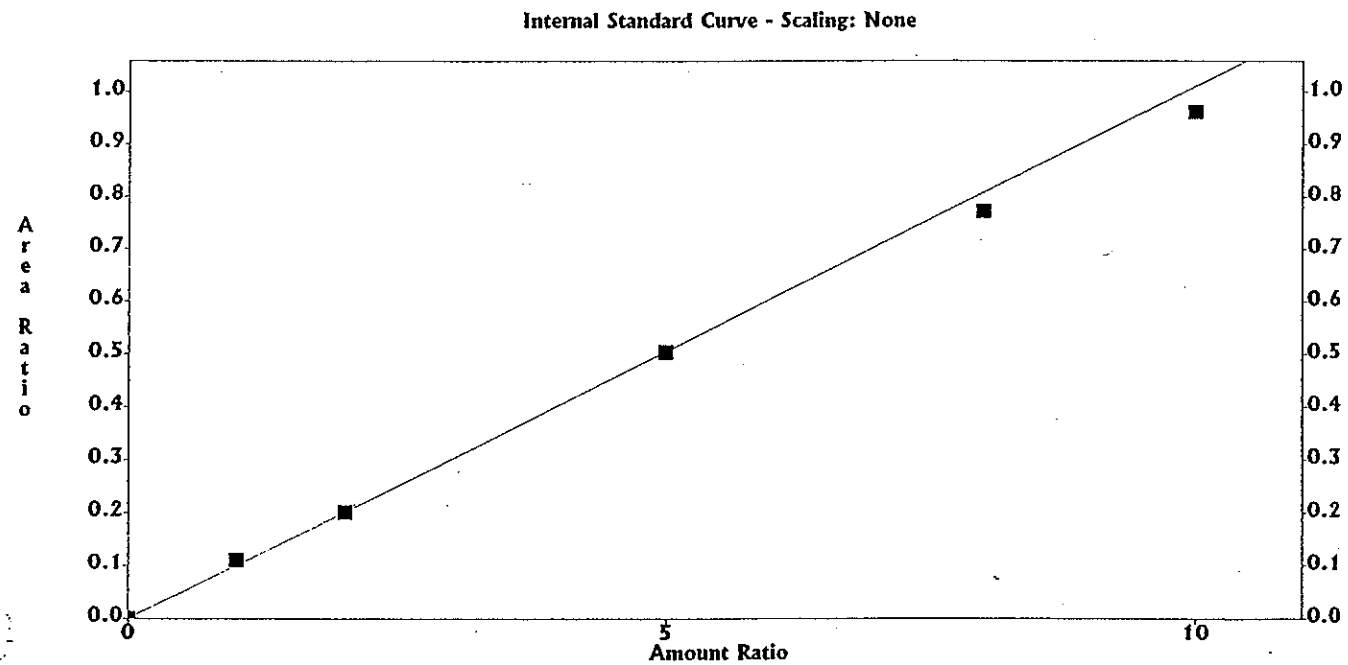
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 9 2,4-D (m)

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1108	1	0.1108	0.1108							0
2	0.2020	2	0.101	0.2020							0
3	0.5042	5	0.1008	0.5042							0
4	0.7725	8	0.09656	0.7725							0
5	0.9628	10	0.09628	0.9628							0

Calib Flag: Replace

Average RF: 0.101099
RF StdDev: 0.00587927
RF %RSD: 5.815

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.101099



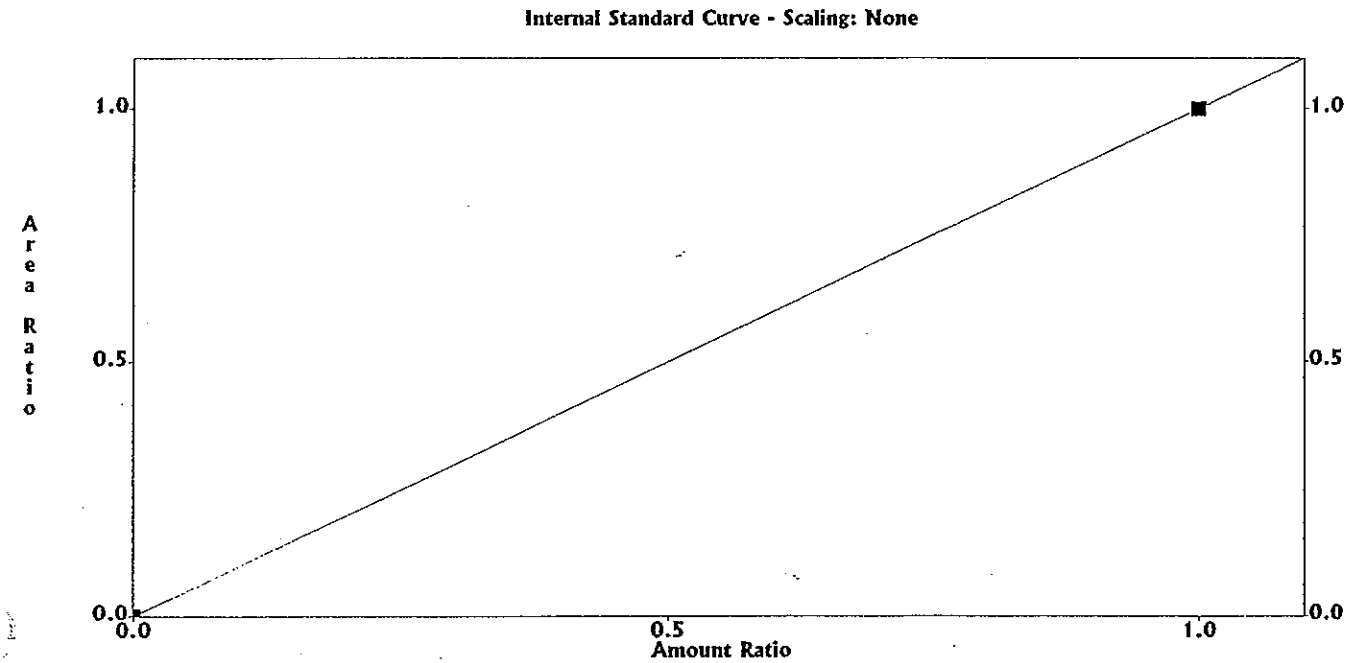
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 10 DBOB (IS)

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 11 Pentachlorphenol

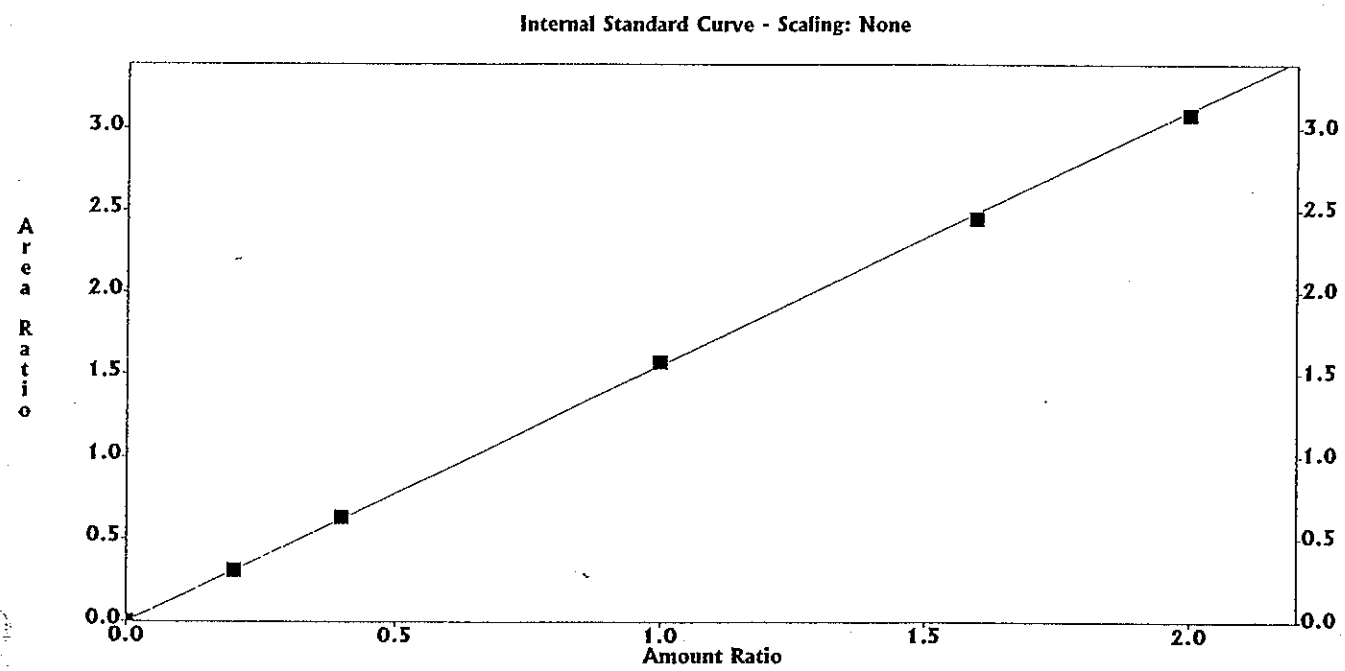
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3088	0.2	1.54	0.3088							0
2	0.6332	0.4	1.58	0.6332							0
3	1.5752	1	1.58	1.5752							0
4	2.4502	1.6	1.53	2.4502							0
5	3.0858	2	1.54	3.0858							0

Calib Flag: Replace

Average RF: 1.55531
RF StdDev: 0.0224793
RF %RSD: 1.445

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.55531



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 12 Silvex (m)

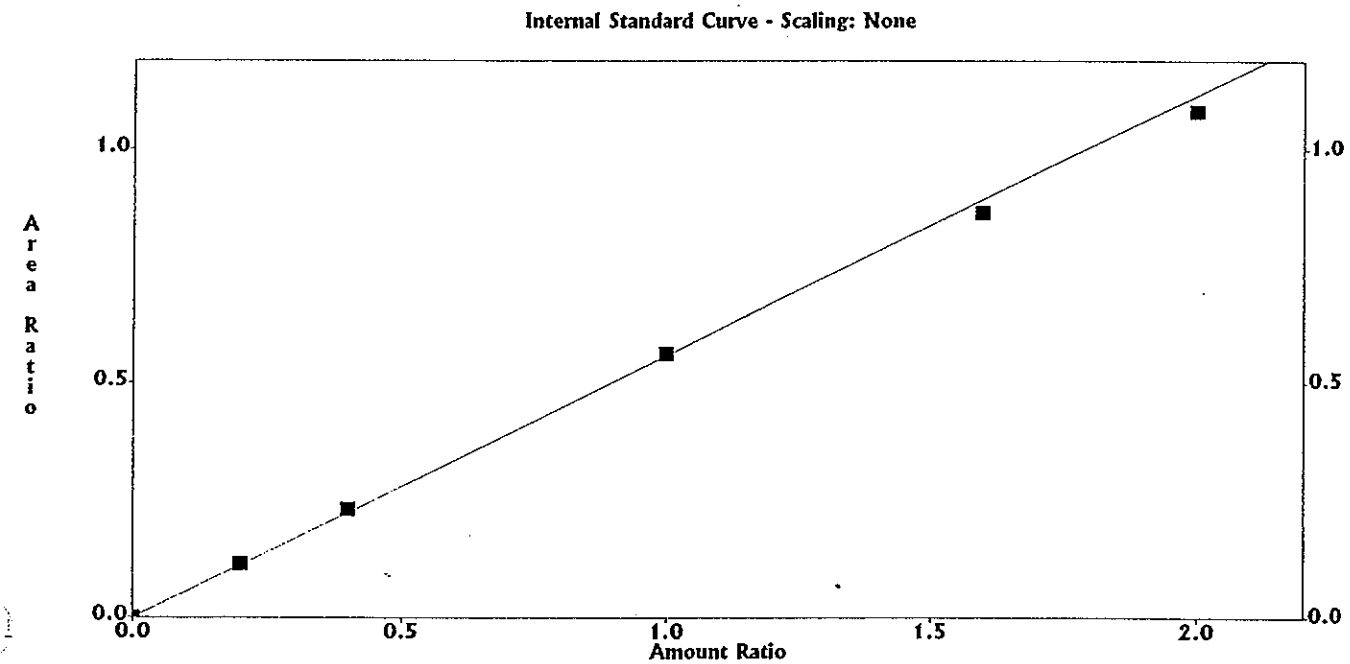
* - Replicate Not Used

Lvl	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1141	0.2	0.5705	0.1141							0
2	0.2311	0.4	0.5777	0.2311							0
3	0.5630	1	0.563	0.5630							0
4	0.8651	1.6	0.5407	0.8651							0
5	1.0833	2	0.5416	1.0833							0

Calib Flag: Replace

Average RF: 0.55871
RF StdDev: 0.016838
RF %RSD: 3.014

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.55871



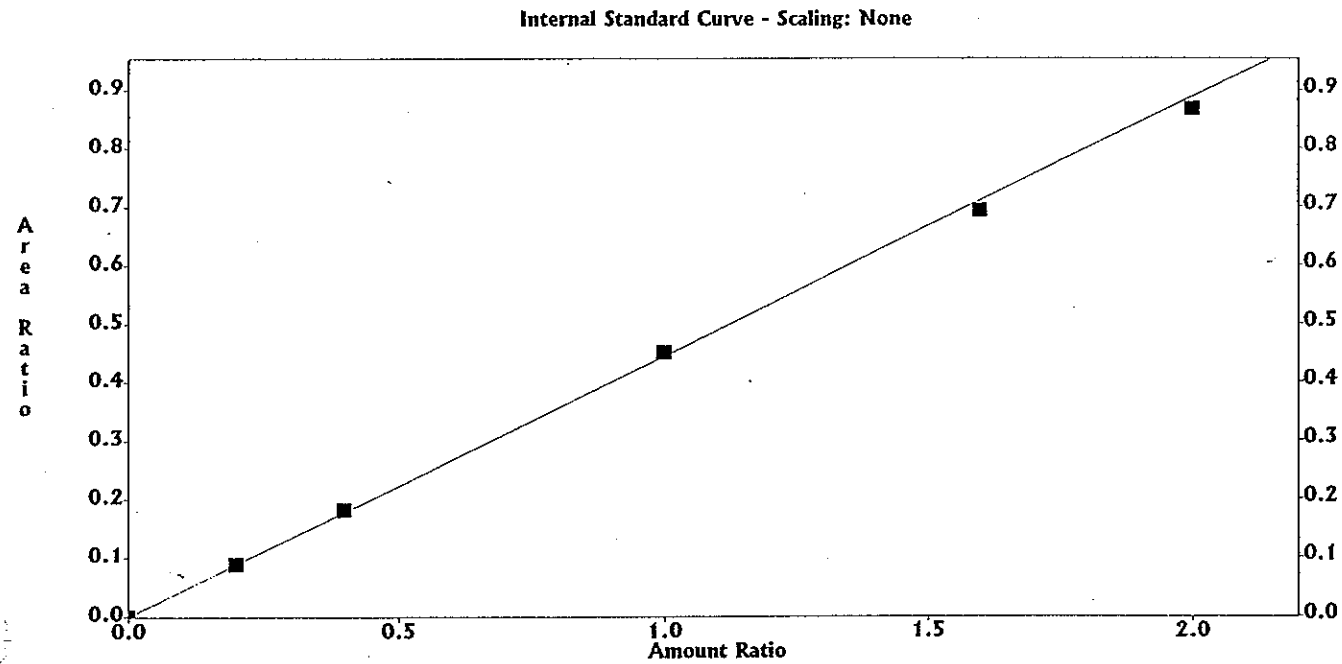
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 13 Chloramben

ı	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0891	0.2	0.4455	0.0891							0
2	0.1827	0.4	0.4568	0.1827							0
3	0.4514	1	0.4514	0.4514							0
4	0.6939	1.6	0.4337	0.6939							0
5	0.8681	2	0.434	0.8681							0

Calib Flag: Replace

Average RF: 0.444269
RF StdDev: 0.0103107
RF %RSD: 2.321

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.444269



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 14 2,4,5-T (m)

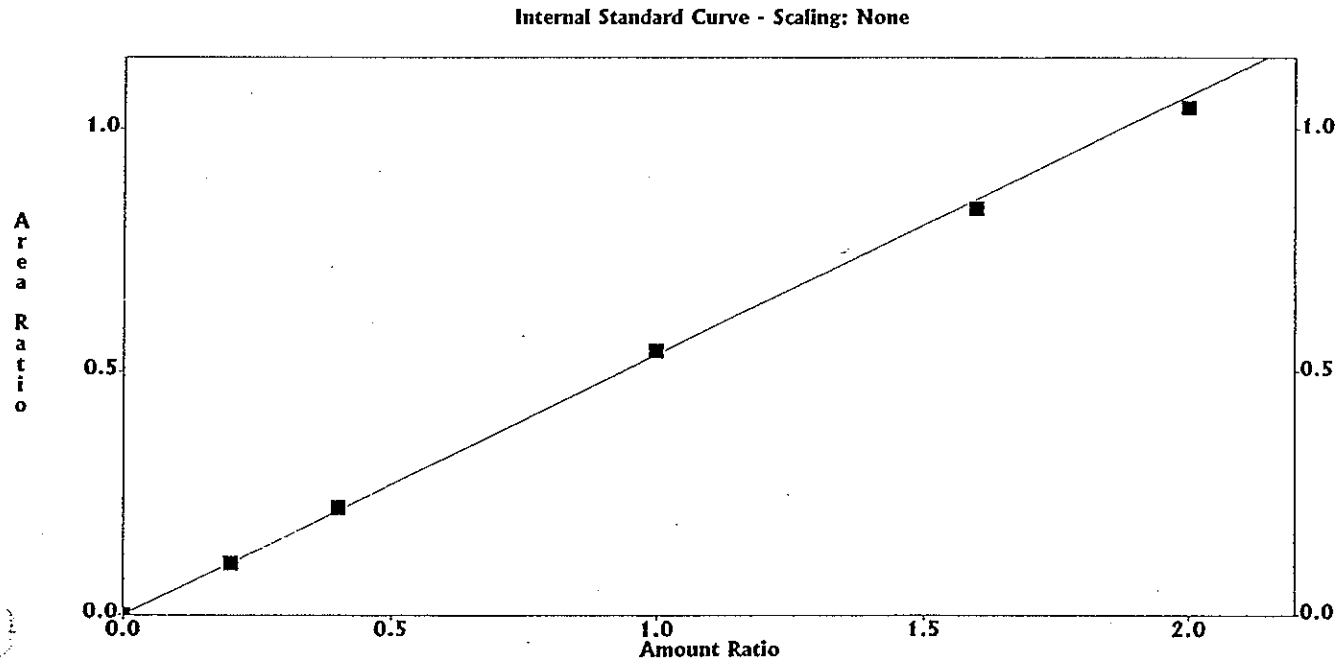
* - Replicate Not Used

.l	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1070	0.2	0.5352	0.1070							0
2	0.2206	0.4	0.5514	0.2206							0
3	0.5426	1	0.5426	0.5426							0
4	0.8372	1.6	0.5232	0.8372							0
5	1.0448	2	0.5224	1.0448							0

Calib Flag: Replace

Average RF: 0.534963
RF StdDev: 0.0124948
RF %RSD: 2.336

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.534963



Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 15 Dinoseb

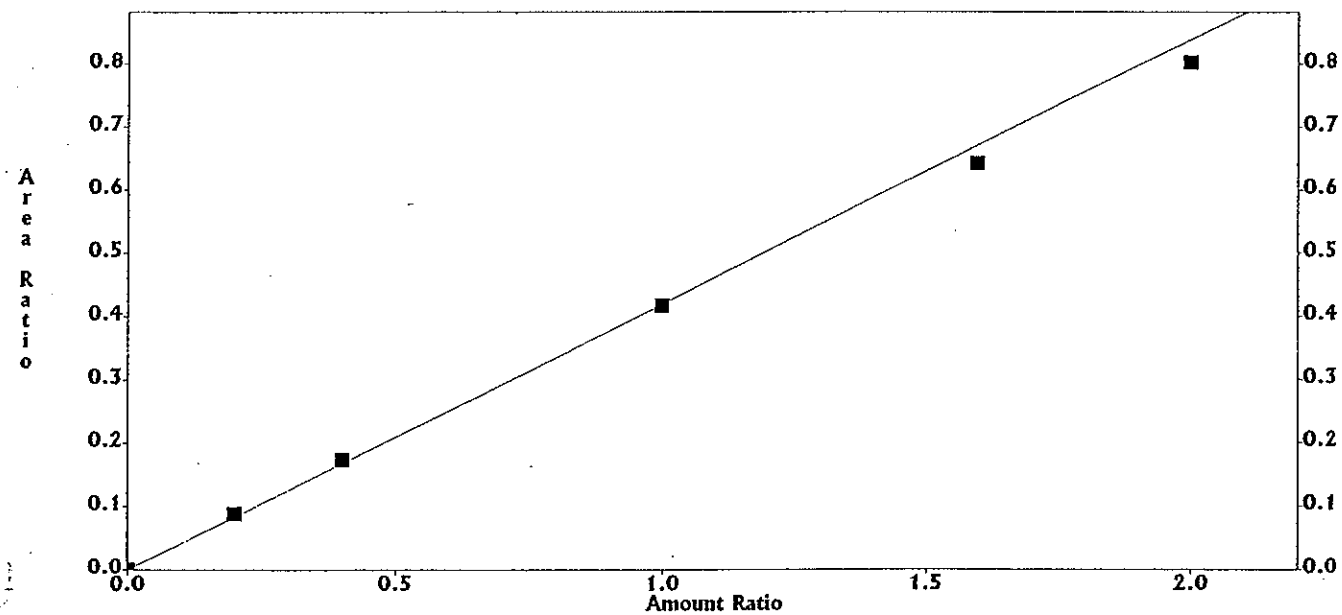
..el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0886	0.2	0.443	0.0886							0
2	0.1736	0.4	0.4341	0.1736							0
3	0.4173	1	0.4173	0.4173							0
4	0.6426	1.6	0.4016	0.6426							0
5	0.8032	2	0.4016	0.8032							0

Calib Flag: Replace

Average RF: 0.419514
RF StdDev: 0.018767
RF %RSD: 4.474

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.419514

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 16 2,4-DB

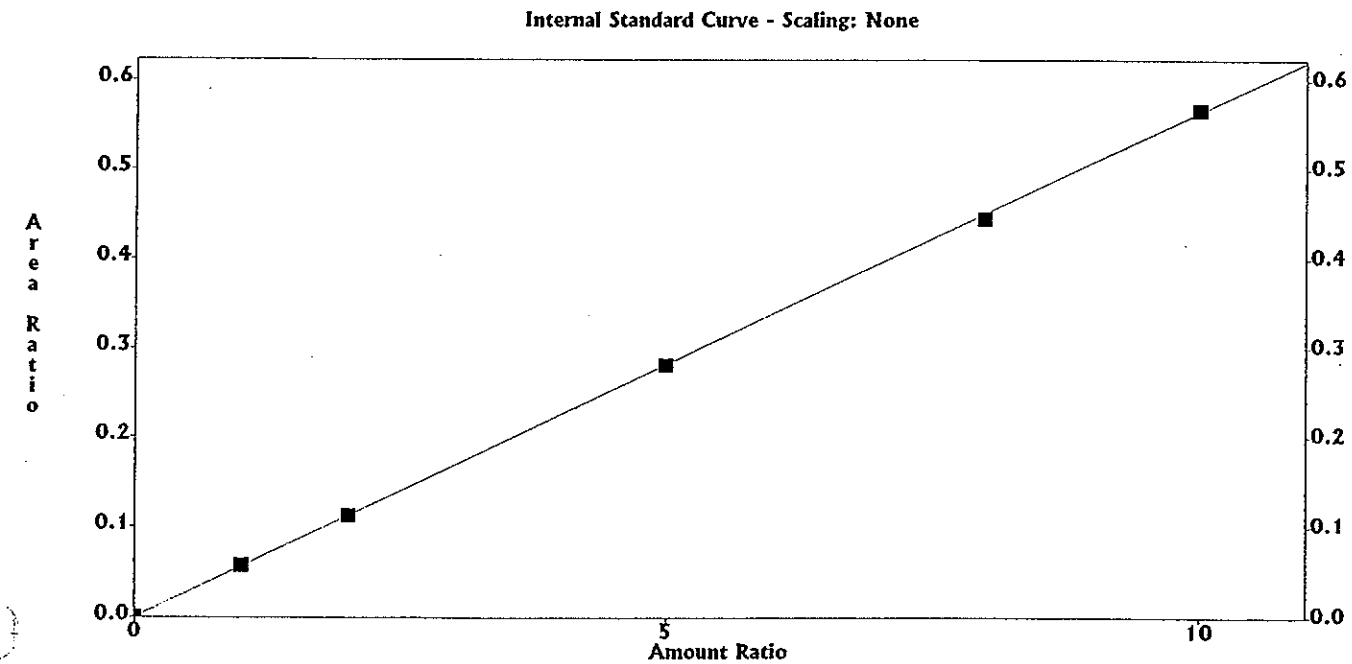
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0573	1	0.05726	0.0573							0
2	0.1127	2	0.05635	0.1127							0
3	0.2812	5	0.05624	0.2812							0
4	0.4457	8	0.05571	0.4457							0
5	0.5670	10	0.0567	0.5670							0

Calib Flag: Replace

Average RF: 0.0564517
RF StdDev: 0.000575168
RF %RSD: 1.019

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0564517



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 17 Bentazon

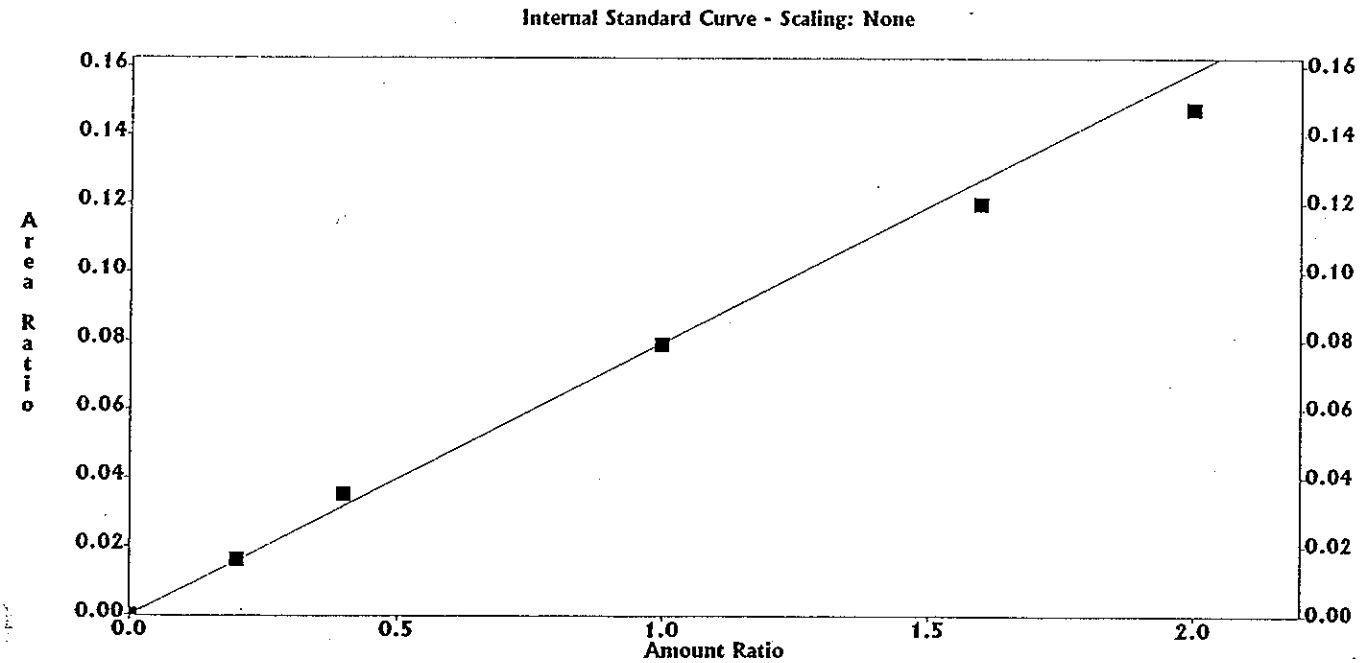
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0162	0.2	0.08079	0.0162							0
2	0.0354	0.4	0.08842	0.0354							0
3	0.0789	1	0.07893	0.0789							0
4	0.1199	1.6	0.07497	0.1199							0
5	0.1477	2	0.07386	0.1477							0

Calib Flag: Replace

Average RF: 0.0793922
RF StdDev: 0.00578699
RF %RSD: 7.289

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0793922



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 18 Picloram

* - Replicate Not Used

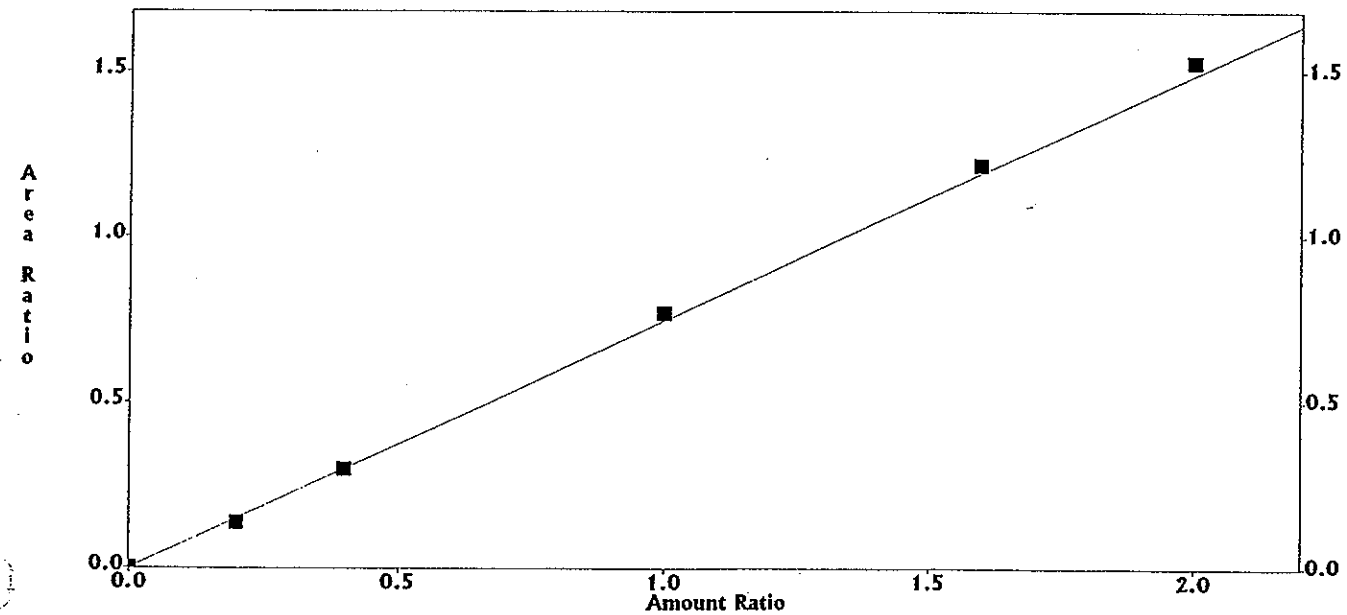
;l	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1373	0.2	0.6865	0.1373							0
2	0.2981	0.4	0.7453	0.2981							0
3	0.7690	1	0.769	0.7690							0
4	1.2179	1.6	0.7612	1.2179							0
5	1.5313	2	0.7656	1.5313							0

Calib Flag: Replace

Average RF: 0.745522
RF StdDev: 0.0342195
RF %RSD: 4.590

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.745522

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 19 DCPA

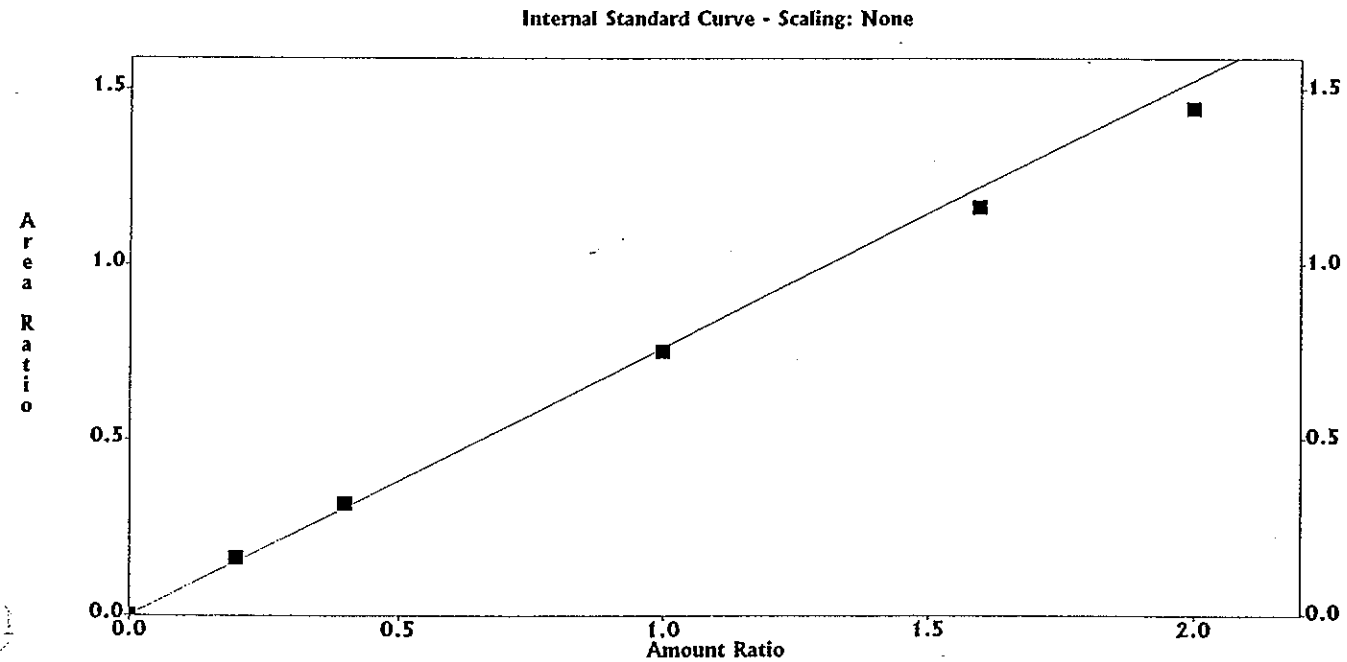
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1631	0.2	0.8156	0.1631							0
2	0.3183	0.4	0.7957	0.3183							0
3	0.7539	1	0.7539	0.7539							0
4	1.1638	1.6	0.7274	1.1638							0
5	1.4456	2	0.7228	1.4456							0

Calib Flag: Replace

Average RF: 0.763057
RF StdDev: 0.0412422
RF %RSD: 5.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.763057



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:37
Channel : A
Peak : 20 Acifluorfen

* - Replicate Not Used

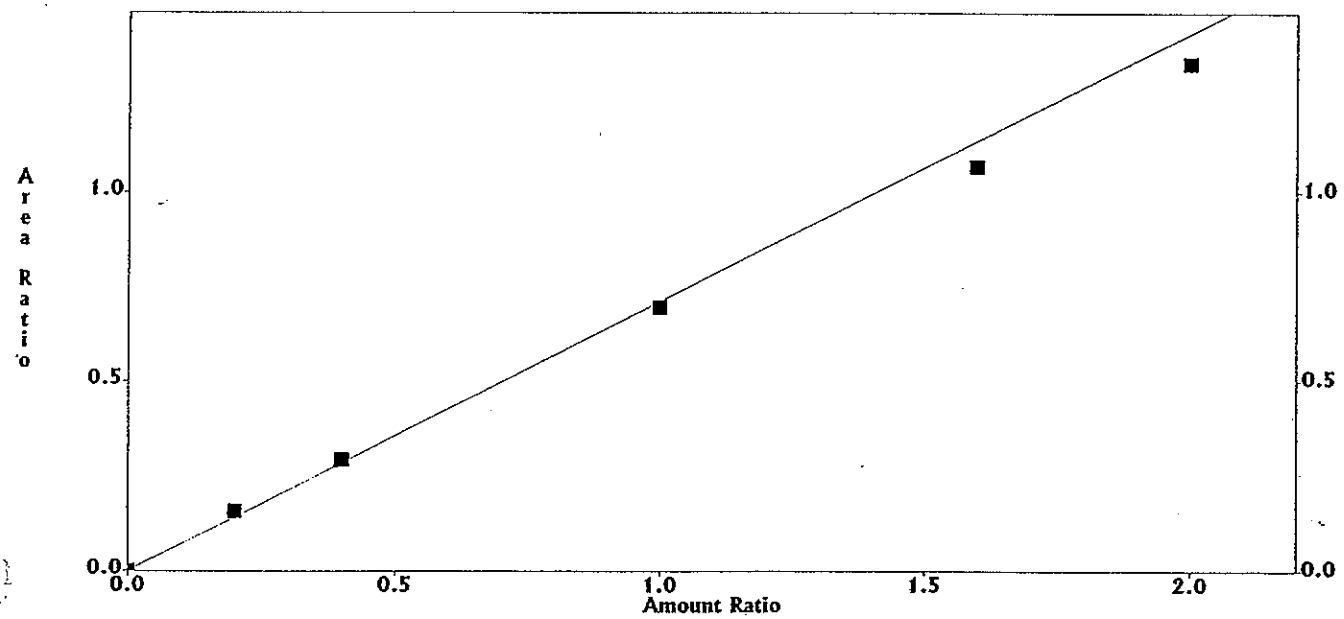
.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1579	0.2	0.7895	0.1579							0
2	0.2921	0.4	0.7303	0.2921							0
3	0.6957	1	0.6957	0.6957							0
4	1.0683	1.6	0.6677	1.0683							0
5	1.3422	2	0.6711	1.3422							0

Calib Flag: Replace

Average RF: 0.710861
RF StdDev: 0.0506144
RF %RSD: 7.120

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.710861

Internal Standard Curve - Scaling: None



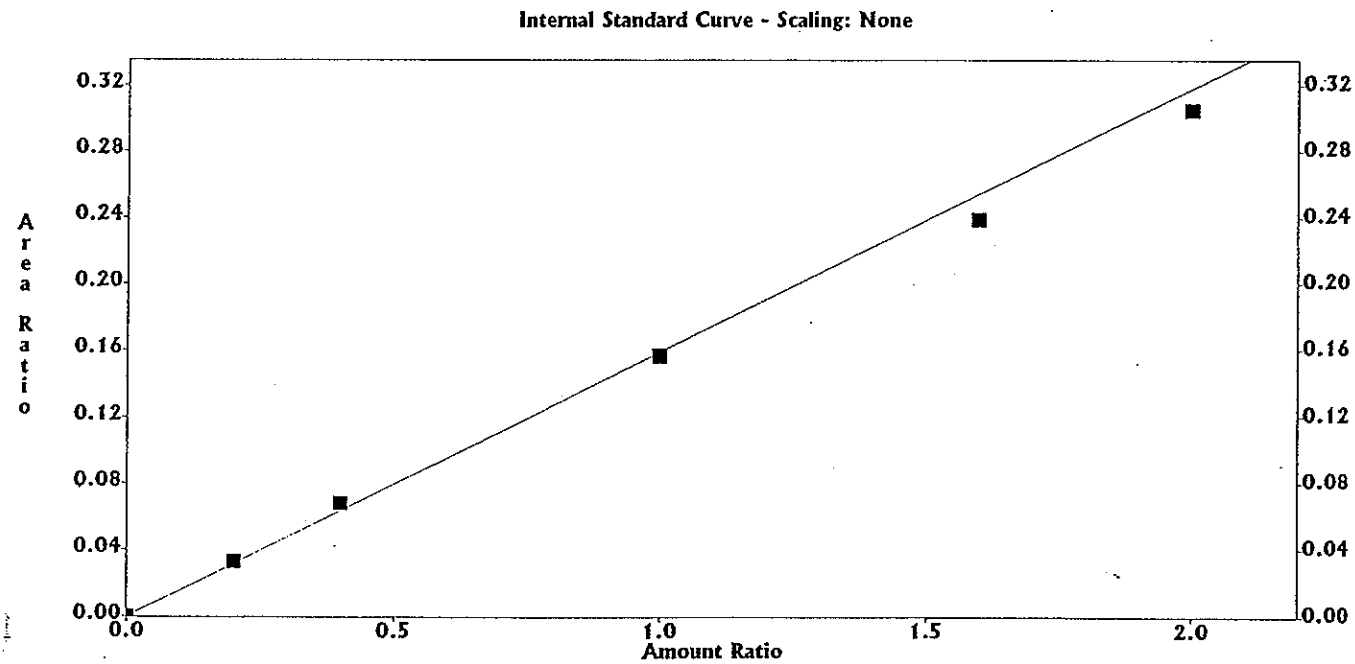
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 1 Dalapon

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0332	0.2	0.1659	0.0332							0
2	0.0683	0.4	0.1707	0.0683							0
3	0.1569	1	0.1569	0.1569							0
4	0.2390	1.6	0.1494	0.2390							0
5	0.3051	2	0.1525	0.3051							0

Calib Flag: Replace

Average RF: 0.159073
RF StdDev: 0.00900517
RF %RSD: 5.661

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.159073



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

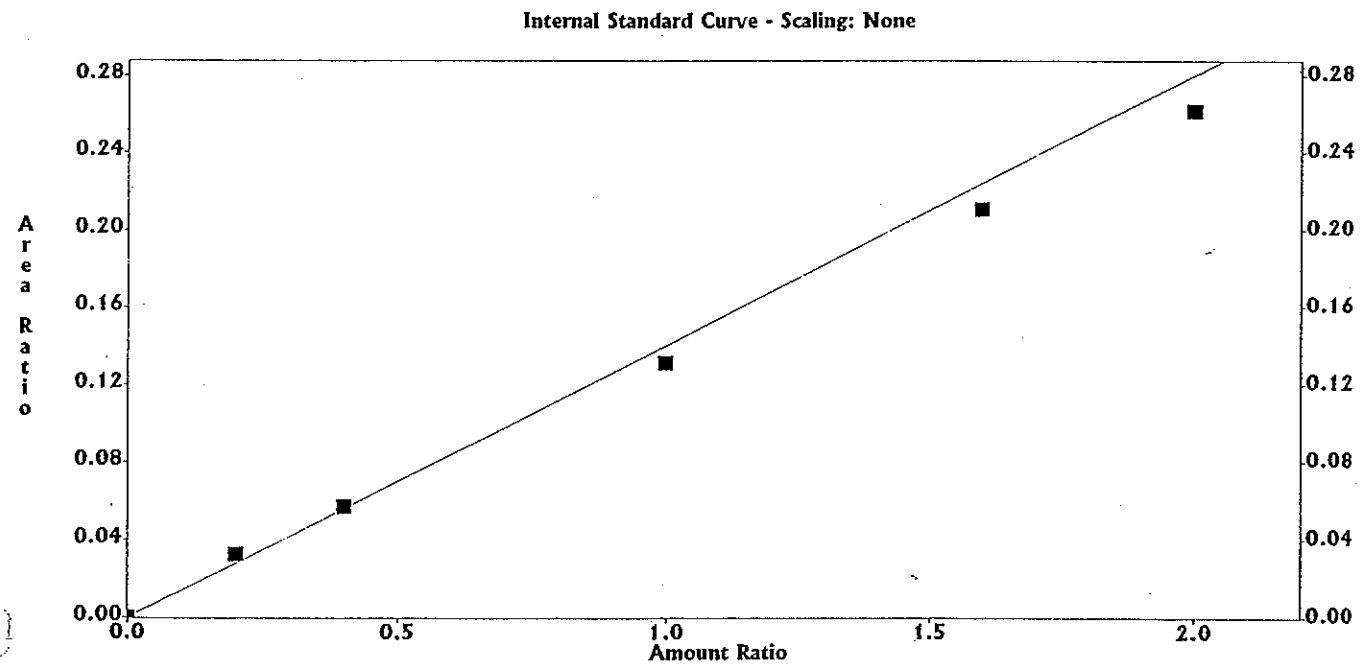
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0328	0.2	0.1638	0.0328							0
2	0.0571	0.4	0.1428	0.0571							0
3	0.1316	1	0.1316	0.1316							0
4	0.2108	1.6	0.1317	0.2108							0
5	0.2617	2	0.1309	0.2617							0

Calib Flag: Replace

Average RF: 0.140157
RF StdDev: 0.0141192
RF %RSD: 10.074

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.140157



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 3 4-Nitrophenol

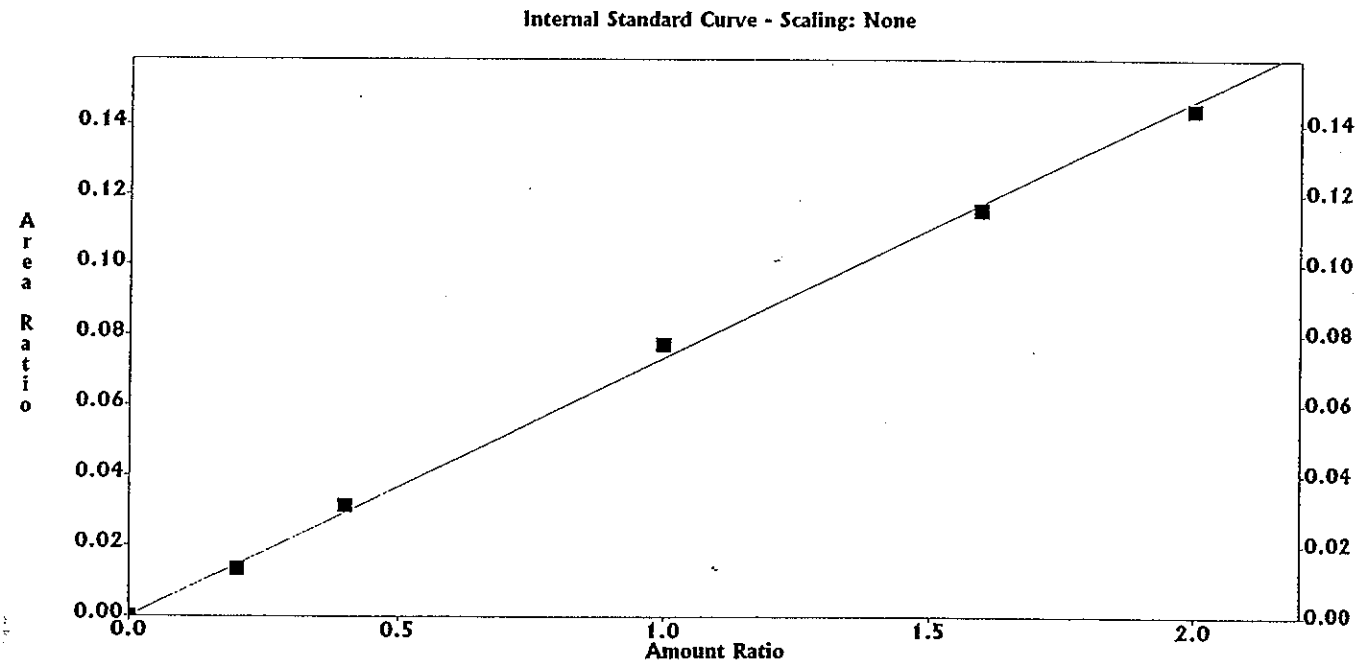
* - Replicate Not Used

ıl	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0134	0.2	0.0671	0.0134							0
2	0.0314	0.4	0.07844	0.0314							0
3	0.0773	1	0.07727	0.0773							0
4	0.1156	1.6	0.07227	0.1156							0
5	0.1443	2	0.07216	0.1443							0

Calib Flag: Replace

Average RF: 0.0734475
RF StdDev: 0.0045514
RF %RSD: 6.197

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0734475



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 4 DCAA (surr)

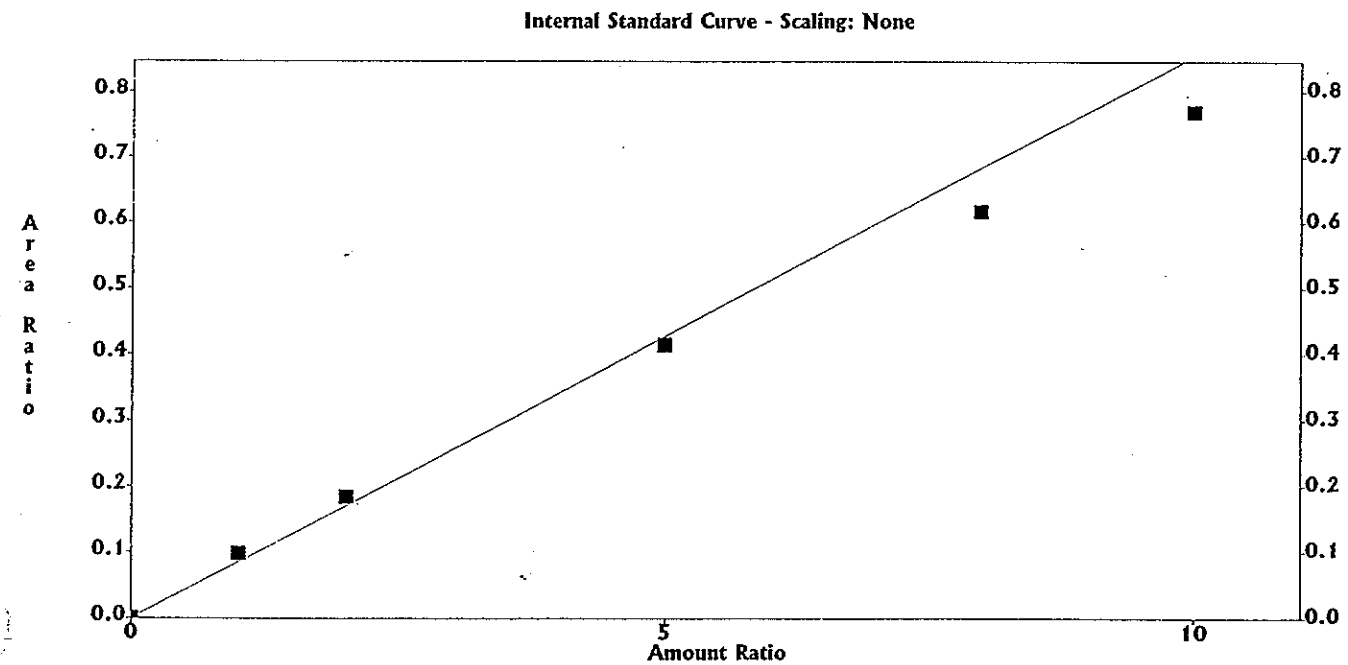
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0983	1	0.09832	0.0983							0
2	0.1846	2	0.09231	0.1846							0
3	0.4149	5	0.08299	0.4149							0
4	0.6178	8	0.07722	0.6178							0
5	0.7704	10	0.07704	0.7704							0

Calib Flag: Replace

Average RF: 0.0855754
RF StdDev: 0.00944904
RF %RSD: 11.042

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0855754



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 5 Dicamba

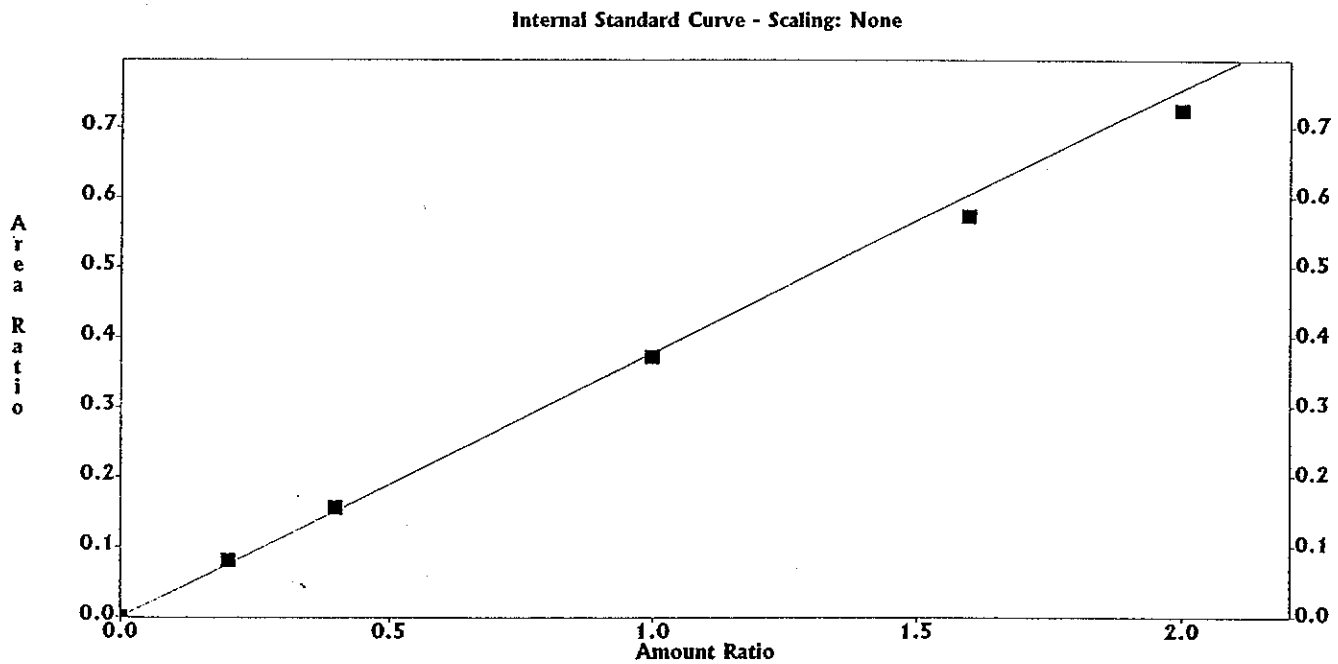
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0809	0.2	0.4047	0.0809							0
2	0.1564	0.4	0.3911	0.1564							0
3	0.3723	1	0.3723	0.3723							0
4	0.5733	1.6	0.3583	0.5733							0
5	0.7254	2	0.3627	0.7254							0

Calib Flag: Replace

Average RF: 0.37782
RF StdDev: 0.0196009
RF %RSD: 5.188

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.37782



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 6 MCPP (ppm)

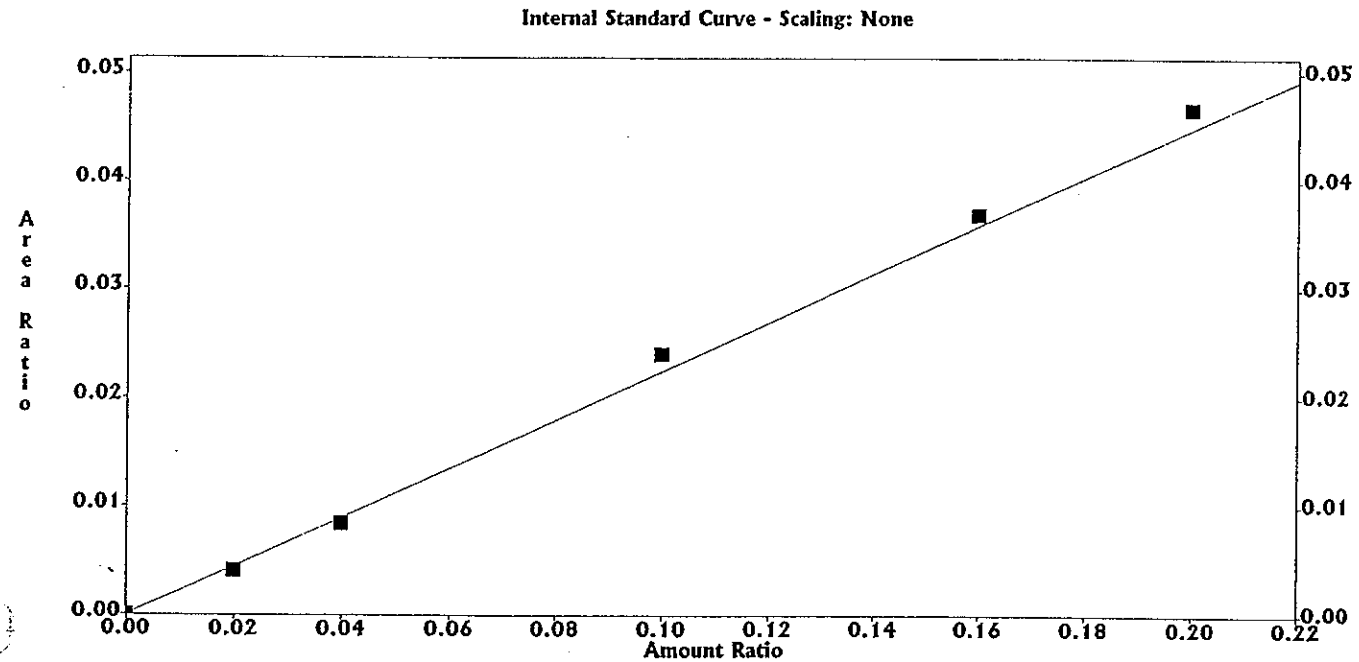
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	0.02	0.2051	0.0041							0
2	0.0085	0.04	0.2113	0.0085							0
3	0.0240	0.1	0.2405	0.0240							0
4	0.0369	0.16	0.2306	0.0369							0
5	0.0467	0.2	0.2336	0.0467							0

Calib Flag: Replace

Average RF: 0.22421
RF StdDev: 0.0152017
RF %RSD: 6.780

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.22421



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 7 DBOB (IS)

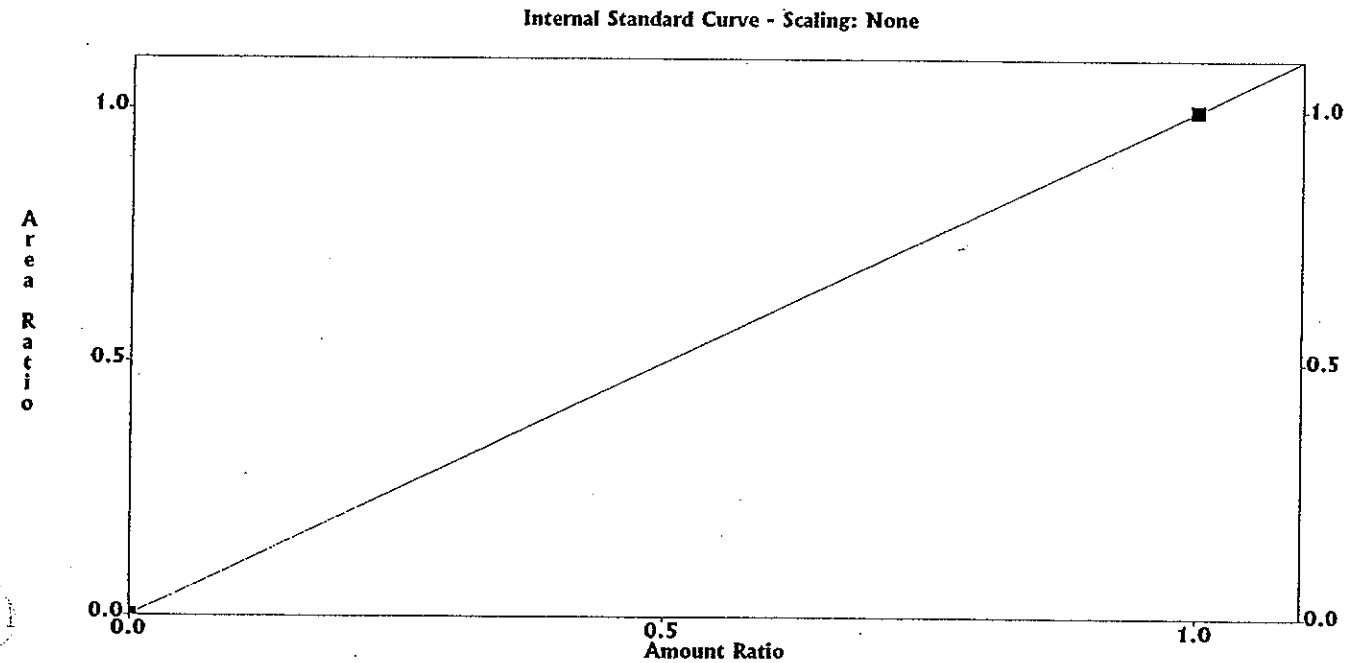
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 8 MCPA (ppm)

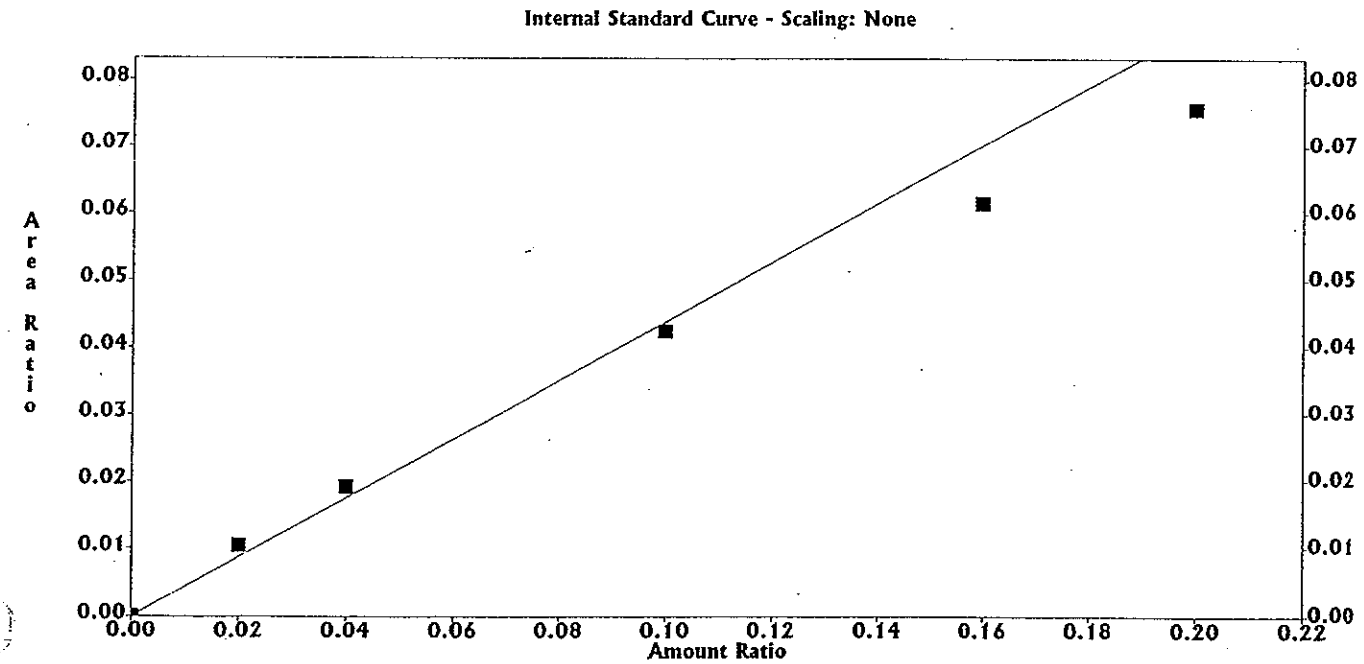
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0105	0.02	0.5256	0.0105							0
2	0.0192	0.04	0.4812	0.0192							0
3	0.0425	0.1	0.4247	0.0425							0
4	0.0615	0.16	0.3845	0.0615							0
5	0.0757	0.2	0.3786	0.0757							0

Calib Flag: Replace

Average RF: 0.438923
RF StdDev: 0.0634385
RF %RSD: 14.453

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.438923



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 9 Dichloroprop

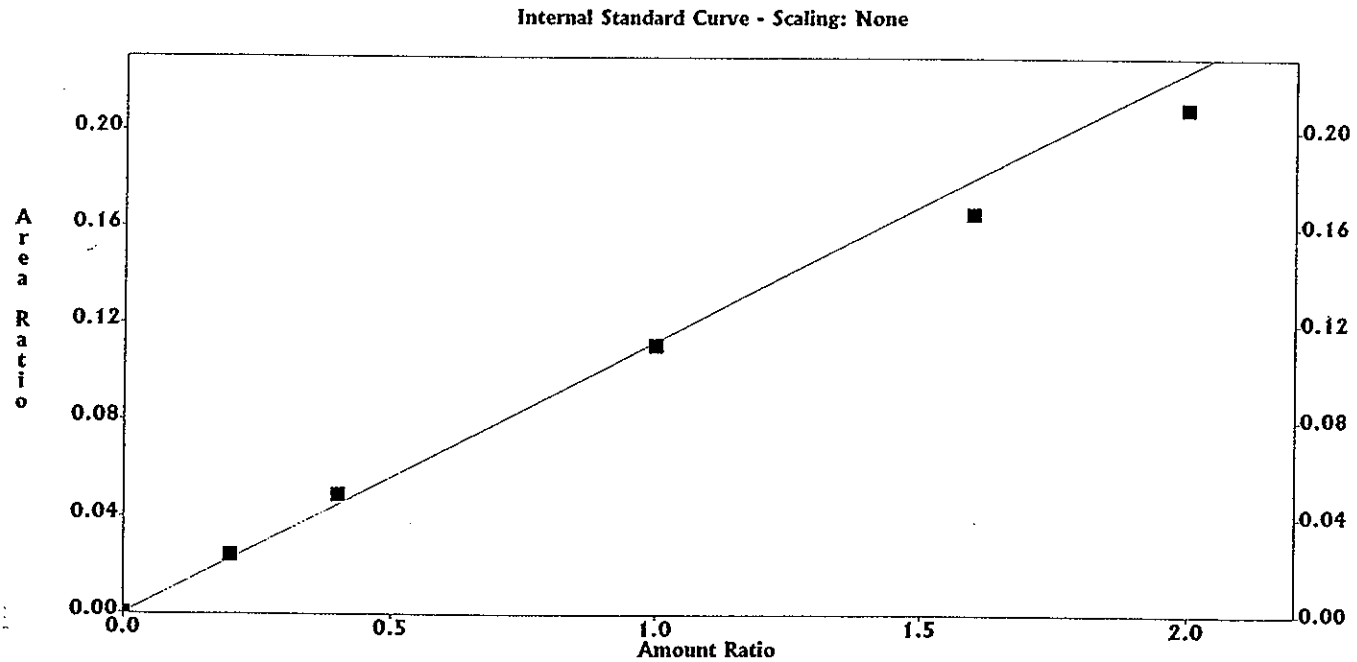
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0241	0.2	0.1206	0.0241							0
2	0.0492	0.4	0.123	0.0492							0
3	0.1111	1	0.1111	0.1111							0
4	0.1658	1.6	0.1036	0.1658							0
5	0.2097	2	0.1048	0.2097							0

Calib Flag: Replace

Average RF: 0.112632
RF StdDev: 0.00887648
RF %RSD: 7.881

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.112632



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 10 2,4-D (m)

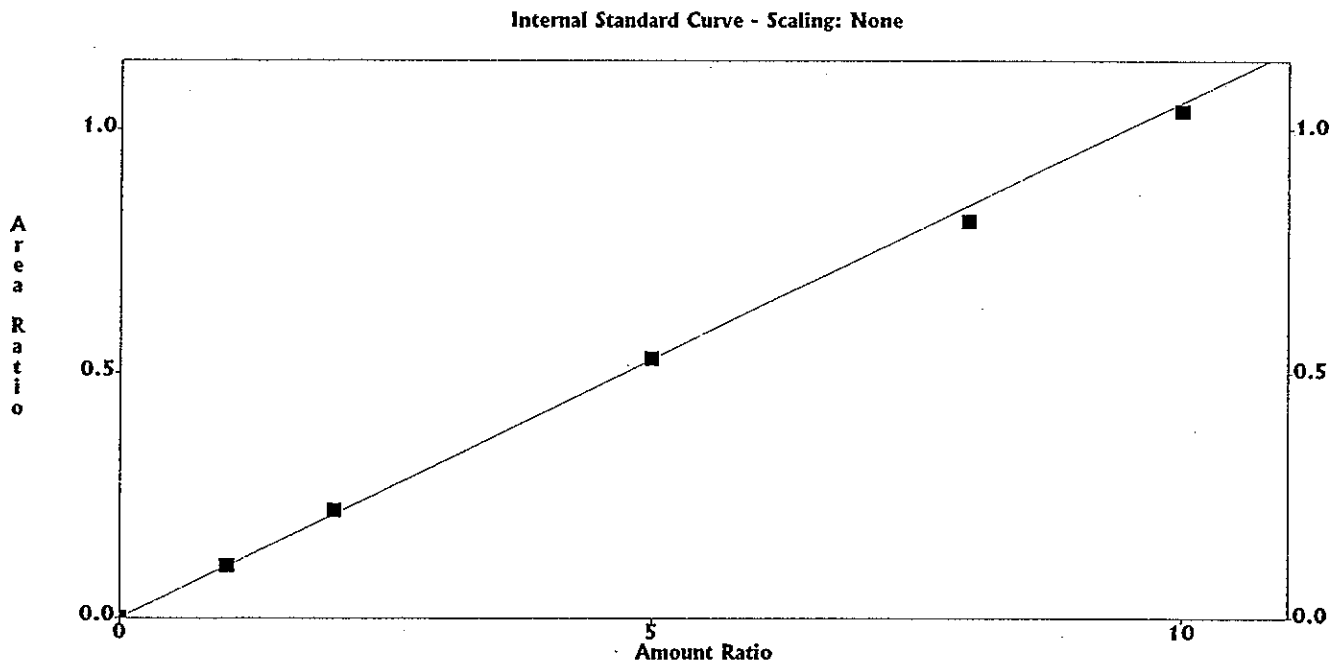
* - Replicate Not Used

al	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1068	1	0.1068	0.1068							0
2	0.2199	2	0.1099	0.2199							0
3	0.5309	5	0.1062	0.5309							0
4	0.8125	8	0.1016	0.8125							0
5	1.0390	10	0.1039	1.0390							0

Calib Flag: Replace

Average RF: 0.105689
RF StdDev: 0.00315904
RF %RSD: 2.989

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.105689



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 11 Pentachlorphenol

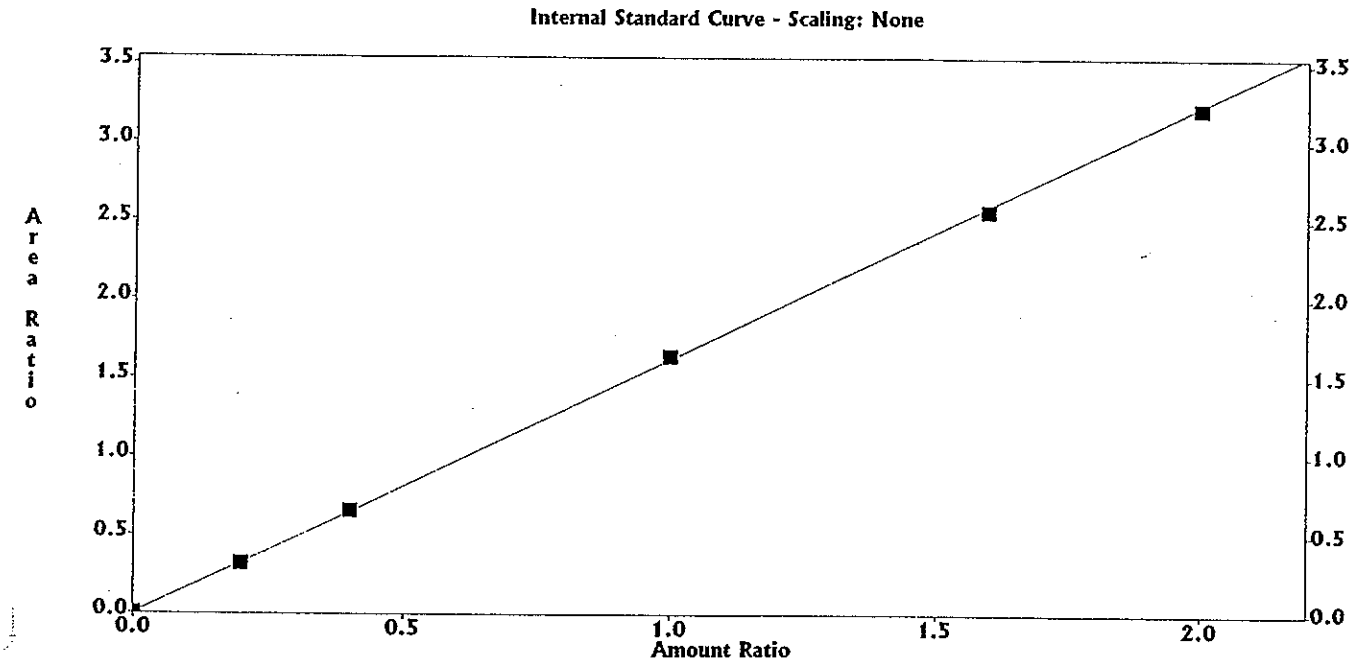
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3215	0.2	1.61	0.3215							0
2	0.6569	0.4	1.64	0.6569							0
3	1.6403	1	1.64	1.6403							0
4	2.5636	1.6	1.60	2.5636							0
5	3.2221	2	1.61	3.2221							0

Calib Flag: Replace

Average RF: 1.62064
RF StdDev: 0.0191153
RF %RSD: 1.179

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.62064



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 12 Silvex (m)

* - Replicate Not Used

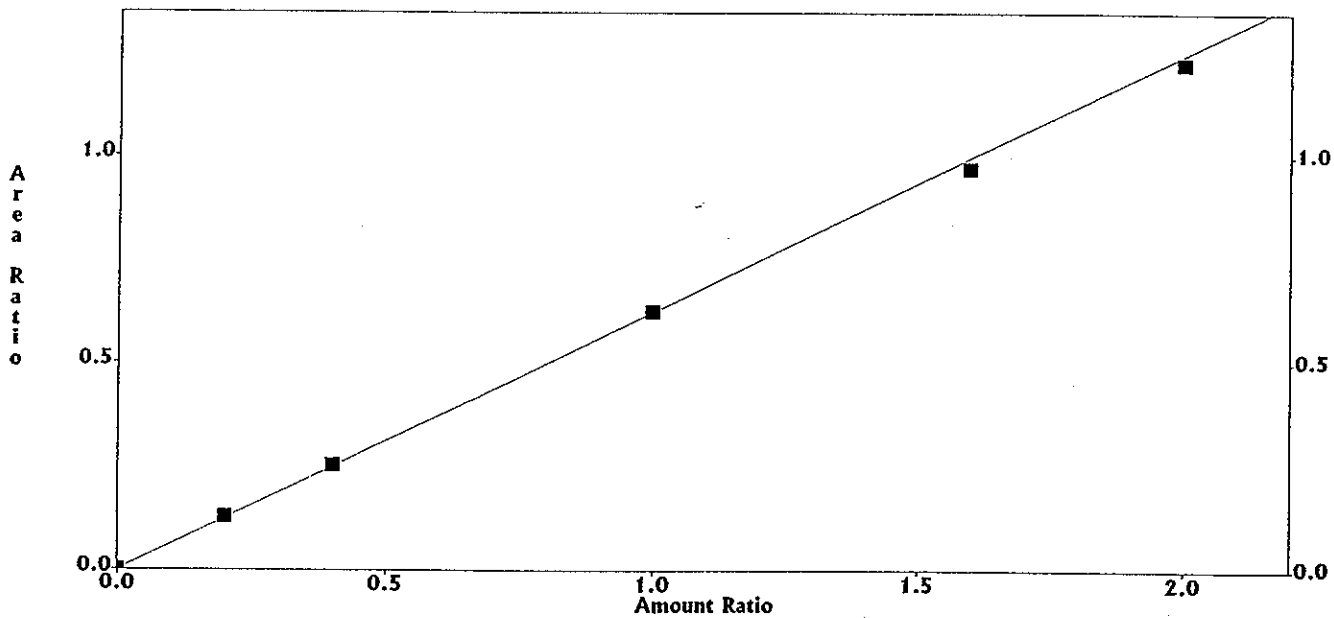
Lel	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1285	0.2	0.6423	0.1285							0
2	0.2527	0.4	0.6317	0.2527							0
3	0.6251	1	0.6251	0.6251							0
4	0.9710	1.6	0.6069	0.9710							0
5	1.2262	2	0.6131	1.2262							0

Calib Flag: Replace

Average RF: 0.623829
RF StdDev: 0.0142041
RF %RSD: 2.277

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.623829

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 13 2,4,5-T (m)

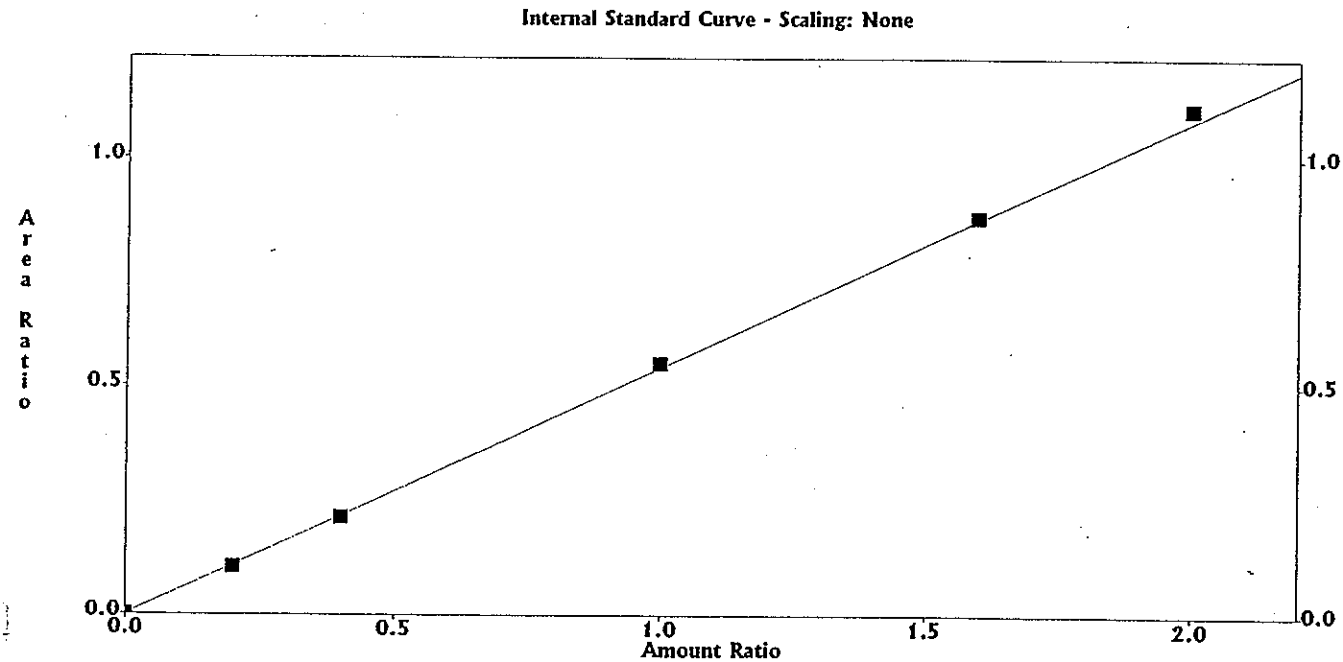
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1046	0.2	0.5232	0.1046							0
2	0.2129	0.4	0.5322	0.2129							0
3	0.5507	1	0.5507	0.5507							0
4	0.8723	1.6	0.5452	0.8723							0
5	1.1102	2	0.5551	1.1102							0

Calib Flag: Replace

Average RF: 0.541272
RF StdDev: 0.0132705
RF %RSD: 2.452

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.541272



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 14 Dinoseb

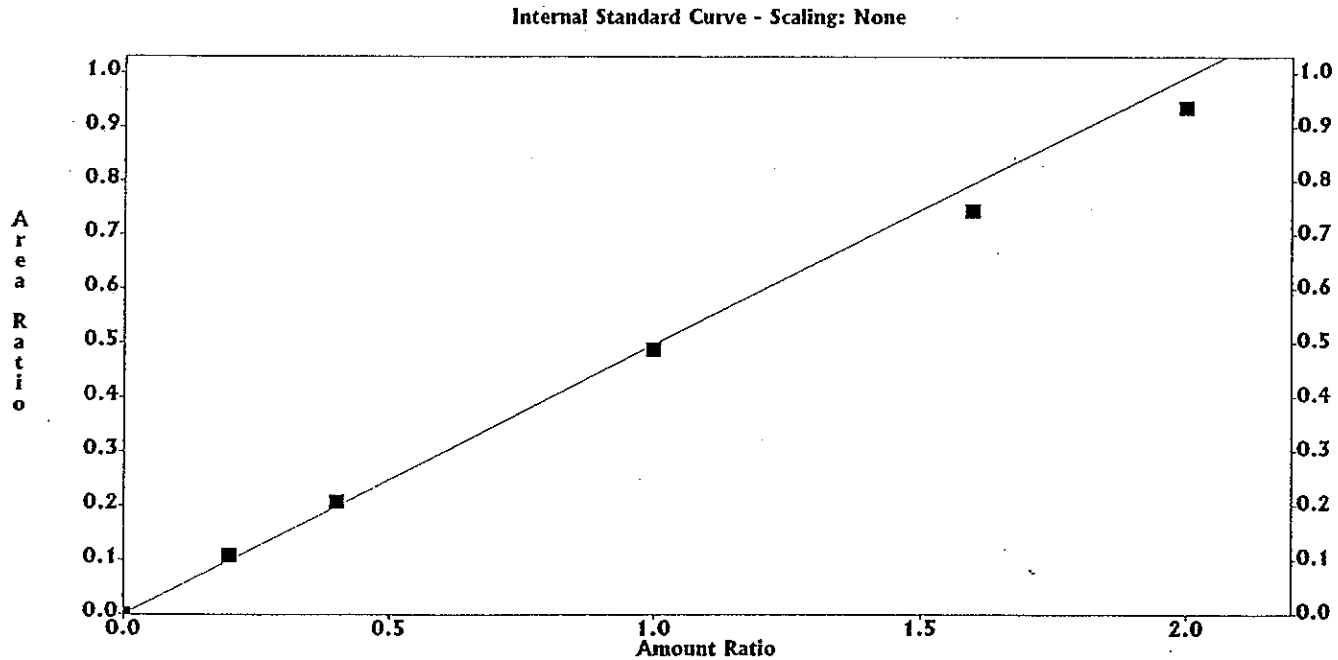
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1088	0.2	0.5442	0.1088							0
2	0.2074	0.4	0.5185	0.2074							0
3	0.4877	1	0.4877	0.4877							0
4	0.7450	1.6	0.4656	0.7450							0
5	0.9374	2	0.4687	0.9374							0

Calib Flag: Replace

Average RF: 0.496953
RF StdDev: 0.0337682
RF %RSD: 6.795

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.496953



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 15 Chloramben

* - Replicate Not Used

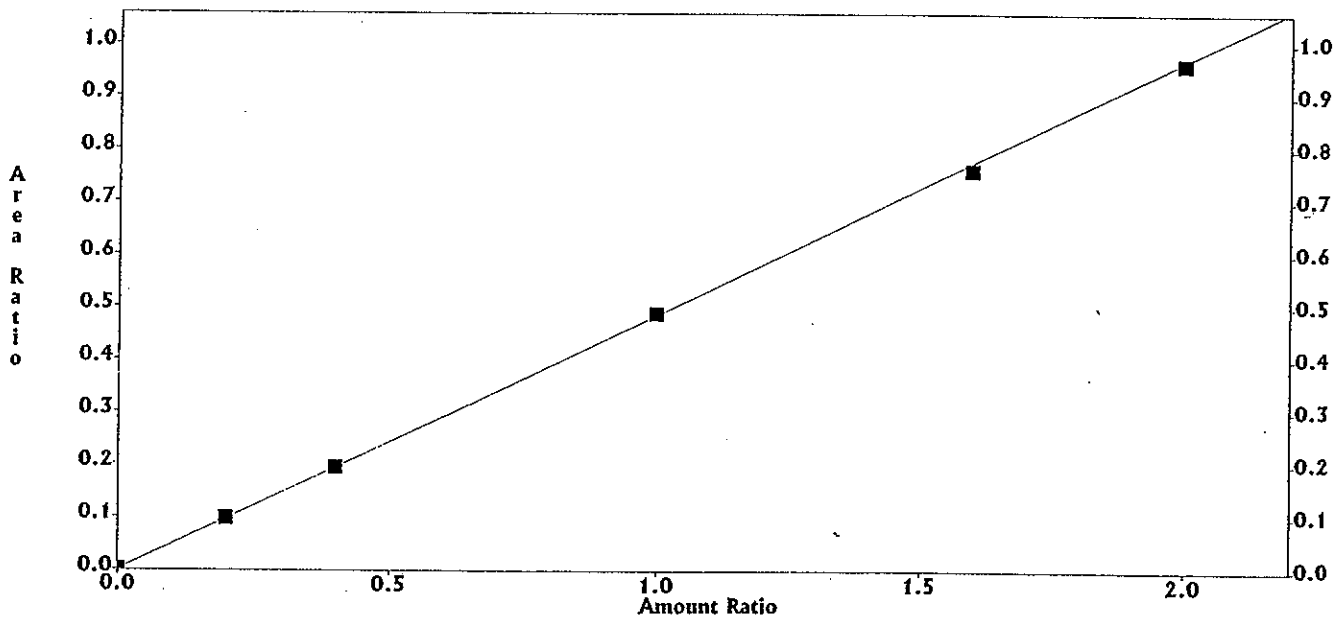
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0984	0.2	0.4922	0.0984							0
2	0.1945	0.4	0.4862	0.1945							0
3	0.4885	1	0.4885	0.4885							0
4	0.7606	1.6	0.4754	0.7606							0
5	0.9633	2	0.4817	0.9633							0

Calib Flag: Replace

Average RF: 0.48477
RF StdDev: 0.00648515
RF %RSD: 1.338

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.48477

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 16 2,4-DB

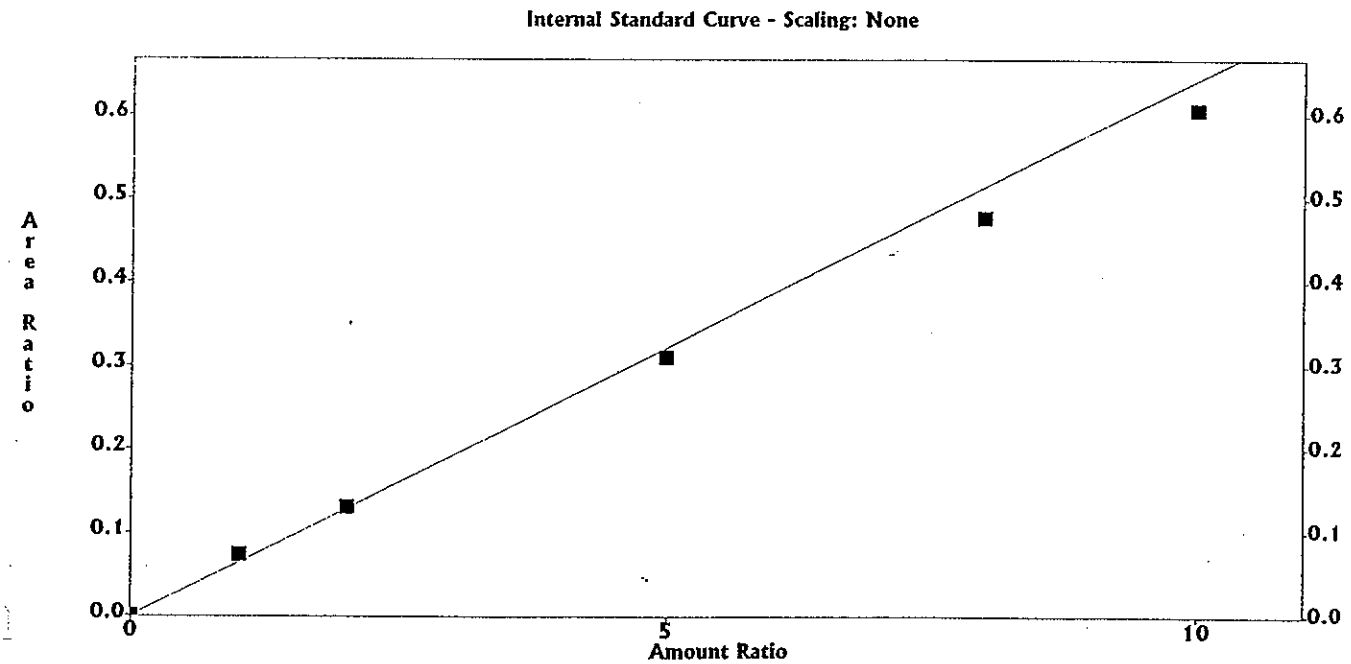
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0739	1	0.07388	0.0739							0
2	0.1309	2	0.06543	0.1309							0
3	0.3111	5	0.06223	0.3111							0
4	0.4774	8	0.05968	0.4774							0
5	0.6076	10	0.06076	0.6076							0

Calib Flag: Replace

Average RF: 0.0643943
RF StdDev: 0.00572644
RF %RSD: 8.893

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0643943



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 17 Bentazon

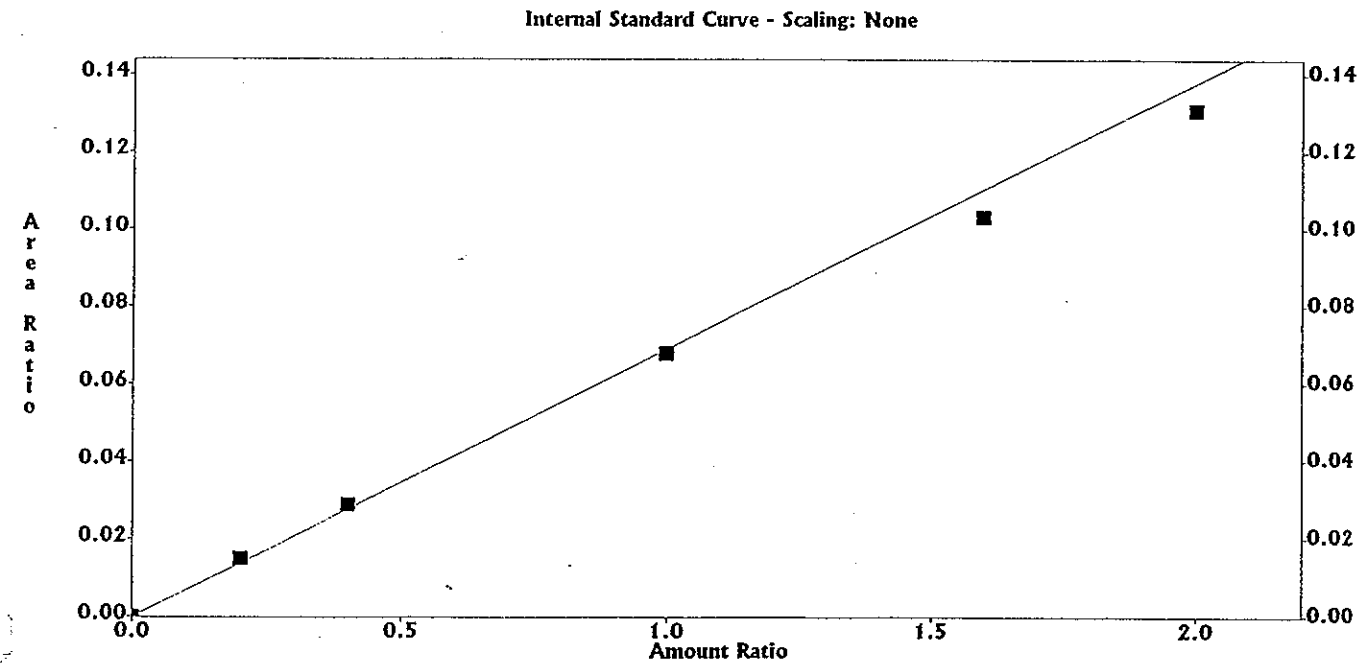
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0150	0.2	0.07504	0.0150							0
2	0.0287	0.4	0.07186	0.0287							0
3	0.0680	1	0.06797	0.0680							0
4	0.1032	1.6	0.06449	0.1032							0
5	0.1309	2	0.06547	0.1309							0

Calib Flag: Replace

Average RF: 0.0689651
RF StdDev: 0.00443058
RF %RSD: 6.424

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0689651



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 18 DCPA

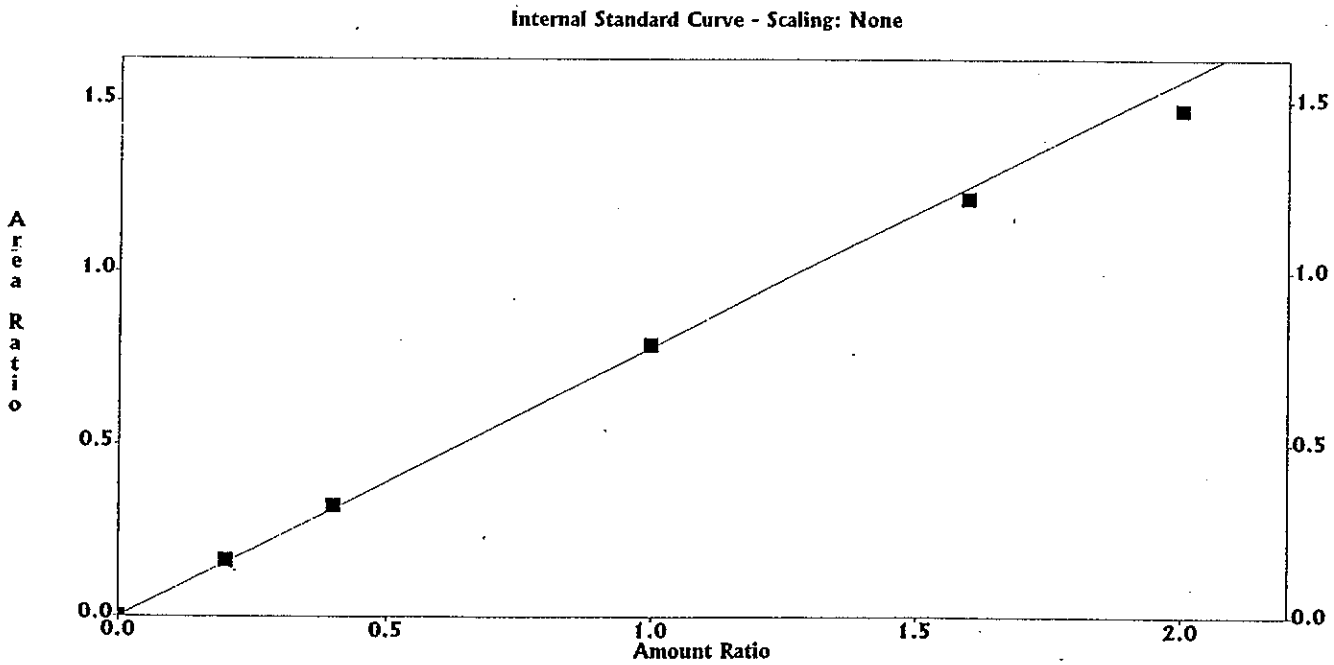
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1628	0.2	0.8142	0.1628							0
2	0.3226	0.4	0.8065	0.3226							0
3	0.7906	1	0.7906	0.7906							0
4	1.2167	1.6	0.7604	1.2167							0
5	1.4768	2	0.7384	1.4768							0

Calib Flag: Replace

Average RF: 0.782016
RF StdDev: 0.0319134
RF %RSD: 4.081

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.782016



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 19 Picloram

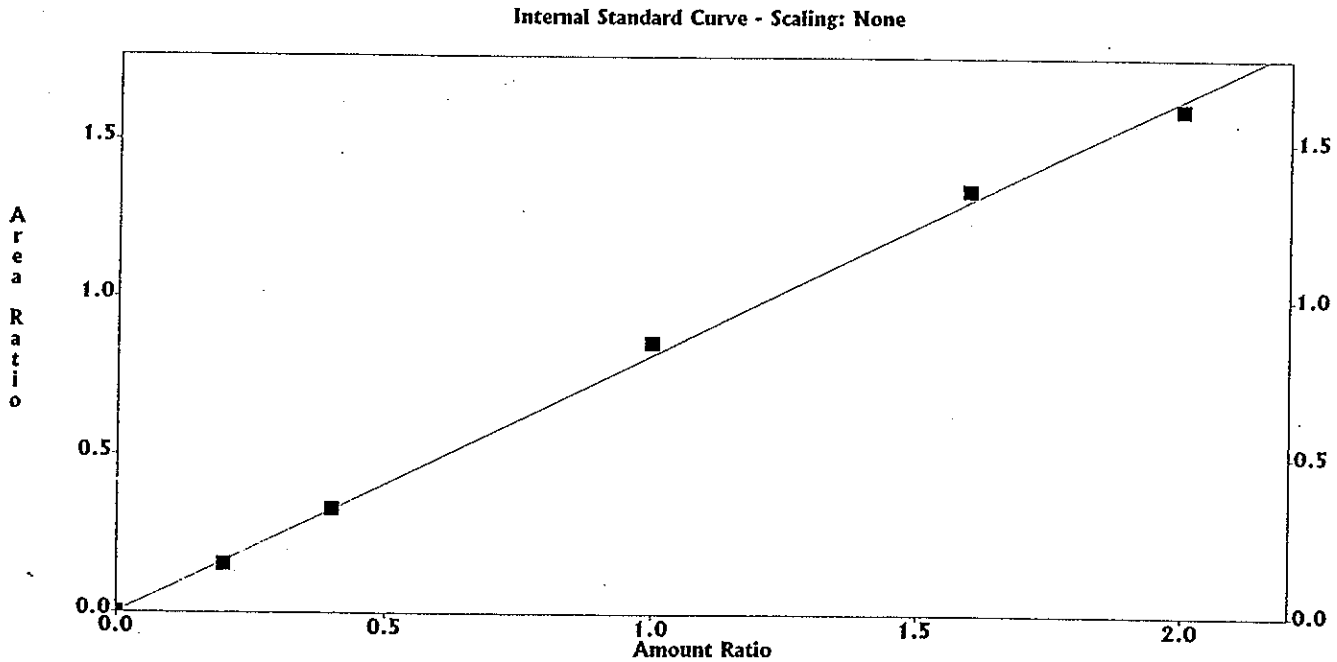
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1546	0.2	0.7728	0.1546							0
2	0.3302	0.4	0.8255	0.3302							0
3	0.8587	1	0.8587	0.8587							0
4	1.3462	1.6	0.8414	1.3462							0
5	1.6088	2	0.8044	1.6088							0

Calib Flag: Replace

Average RF: 0.820557
RF StdDev: 0.0333579
RF %RSD: 4.065

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.820557



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 20 Acifluorfen

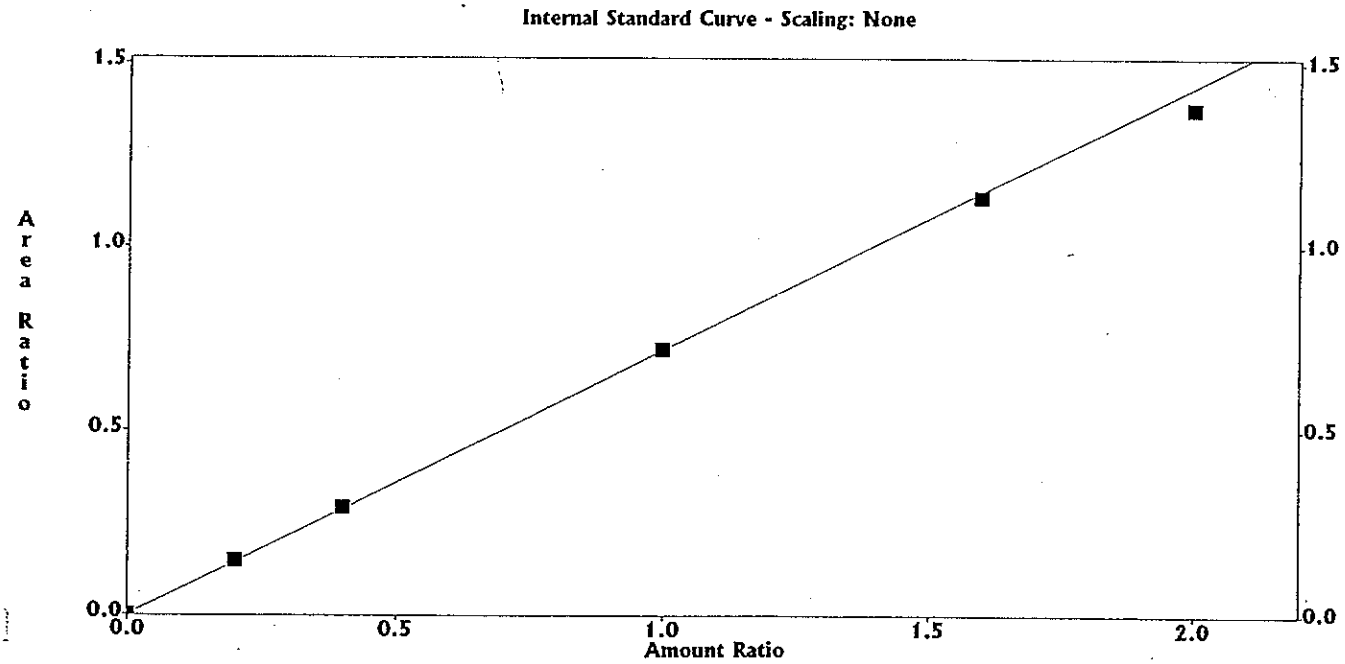
* - Replicate Not Used

al	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1485	0.2	0.7425	0.1485							0
2	0.2930	0.4	0.7325	0.2930							0
3	0.7200	1	0.72	0.7200							0
4	1.1354	1.6	0.7096	1.1354							0
5	1.3782	2	0.6891	1.3782							0

Calib Flag: Replace

Average RF: 0.718754
RF StdDev: 0.020734
RF %RSD: 2.885

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.718754



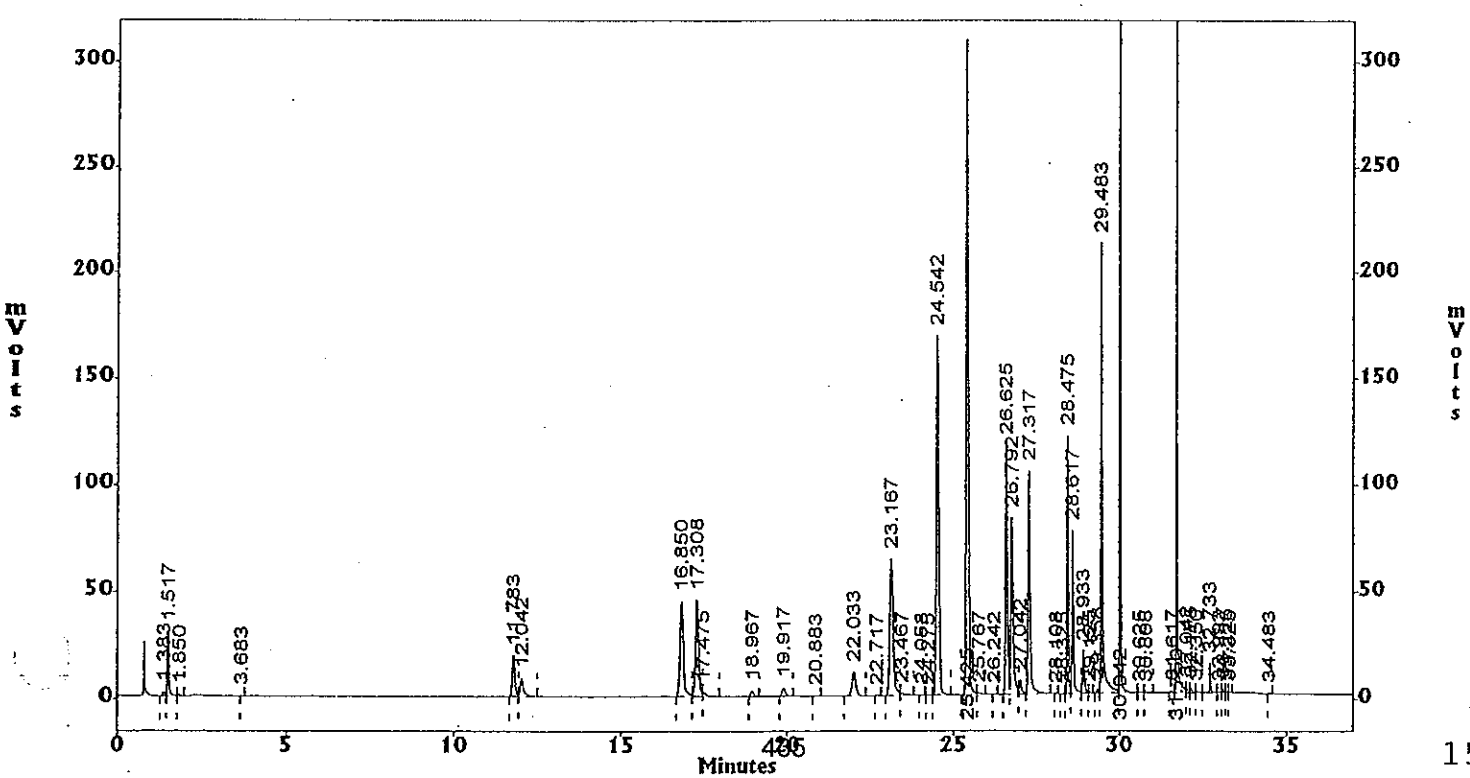
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
mple ID : ##03g3116,s GC14184
quired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.52	111475	29937	0.129749	251.15
5	2	3,5-Di-Cl-Bz acid	11.78	105410	19034	0.125046	246.42
6	3	4-Nitrophenol	12.04	59404	8280	0.070732	245.51
7	4	DCAA(Surr)	16.85	308684	44512	0.073885	1221.30
8	5	Dicamba	17.31	295593	45111	0.353447	244.48
10	6	MCPP(ppm)	18.97	16413	2582	0.179235	26.77
11	7	MCPA(PPm)	19.92	28134	3947	0.343572	23.94
13	8	Dichloroprop	22.03	87068	11009	0.099712	255.26
15	9	2,4-D (m)	23.17	431483	64067	0.101099	1247.61
19	10	DBOB (IS)	24.54	855215	168746	1.000000	250.00
20	11	Pentachlorphenol	25.42	1348189	309292	1.555308	253.40
23	12	Silvex (m)	26.63	484308	117189	0.558710	253.40
24	13	Chloramben	26.79	383702	82699	0.444269	252.47
26	14	2,4,5-T (m)	27.32	463950	104438	0.534963	253.52
29	15	Dinoseb	28.48	358769	121119	0.419514	250.00
30	16	2,4-DB	28.62	240558	76533	0.056452	1245.68
31	17	Bentazon	28.93	67993	19904	0.079392	250.35
34	18	Picloram	29.48	662747	211569	0.745522	259.87
35	19	DCPA	30.04	657205	316649	0.763057	251.77
39	20	Acifluorfen	31.75	609417	316960	0.710861	250.61

c:\data\2003\0307\8151t\03g3116\3116g.q01 -- Channel A

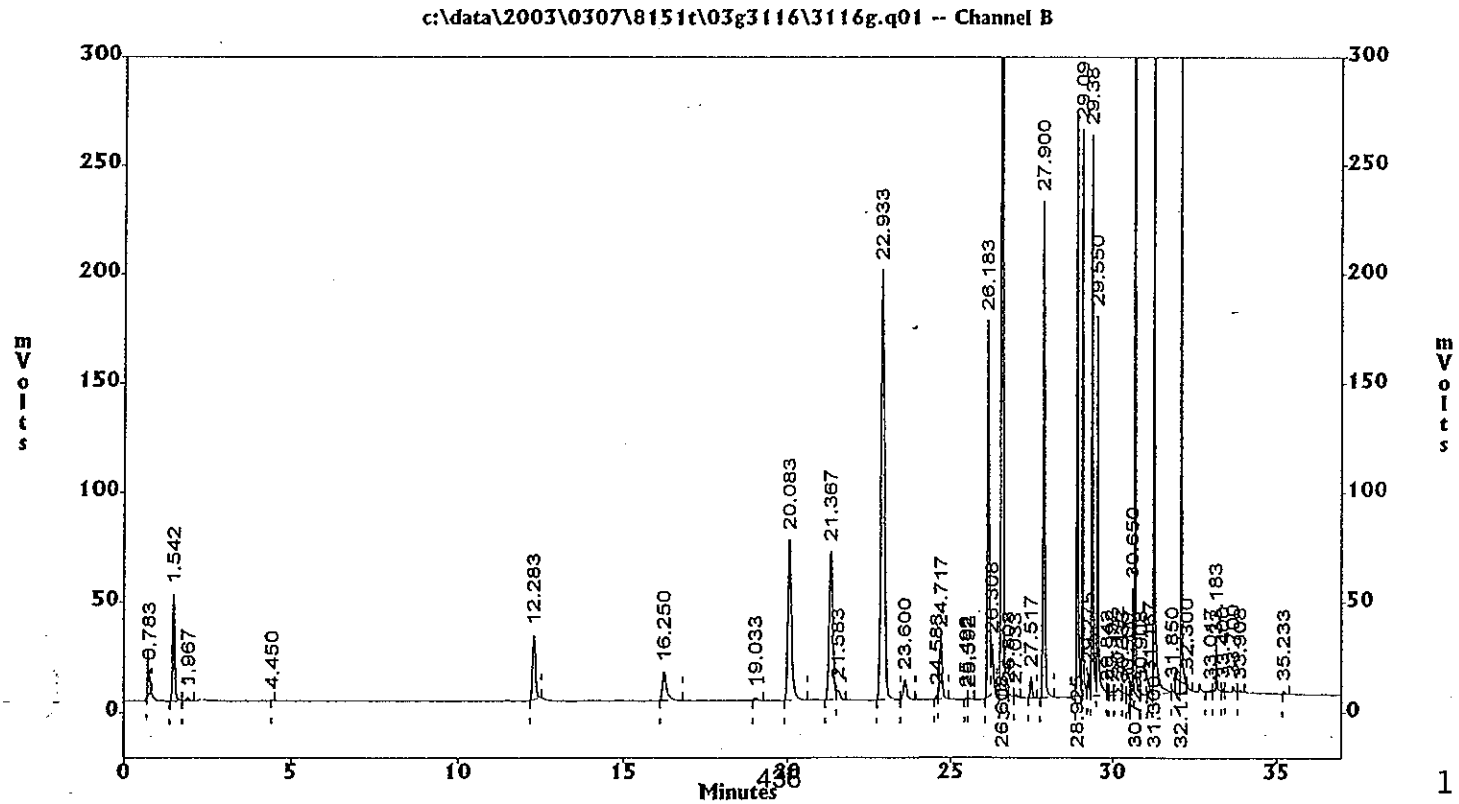


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##03g3116,s GC14184
Acquired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
2	1	Dalapon	1.54	223601	48562	0.159073	250.59
5	2	3,5-Di-Cl-Bz acid	12.28	183584	29171	0.140157	233.51
6	3	4-Nitrophenol	16.25	107834	12857	0.073447	261.74
8	4	DCAA (surr)	20.08	581042	73131	0.085575	1210.45
9	5	Dicamba	21.37	520623	67739	0.377820	245.65
10	6	MCPP (ppm)	21.58	32612	4461	0.224210	25.93
11	7	DBOB (IS)	22.93	1402341	196451	1.000000	250.00
12	8	MCPA (ppm)	23.60	59289	8943	0.438923	24.08
14	9	Dichloroprop	24.72	155810	27985	0.112632	246.62
17	10	2,4-D (m)	26.18	732906	172130	0.105689	1236.25
19	11	Pentachlorphenol	26.61	2276273	550193	1.620643	250.39
23	12	Silvex (m)	27.90	877925	227162	0.623829	250.89
24	13	2,4,5-T (m)	28.92	772896	266474	0.541272	254.56
25	14	Dinoseb	29.09	693676	259393	0.496953	248.84
27	15	Chloramben	29.38	693036	256621	0.484770	254.86
28	16	2,4-DB	29.55	456089	173518	0.064394	1262.67
34	17	Bentazon	30.65	95688	48518	0.068965	247.35
35	18	DCPA	30.73	1115576	570988	0.782016	254.31
38	19	Picloram	31.30	1209292	572608	0.820557	262.73
40	20	Acifluorfen	32.12	1025810	551982	0.718754	254.43



FORM-7B

Applied P & CH Laboratories

CCV Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No.:		Lab Code:	APCL
Case No:		SAS No.:		Service ID:	44778
Project ID:	Presidio-Baker Beach 3	Project No.:	175037	Instrument	T
		Batch No.:	04G3696	Sequence No.	04G3696
CCV File:	3696G.Q01	Date Analyzed:	10/07/2004	Time Analyzed:	12:47

Target Components (Channel-A Column: DB-608)

#	Component Name	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	by
1	DALAPON	µg/L	250	231	92	-8	√	85-115	CCV
2	DICAMBA	µg/L	250	248	99	-1	√	85-115	CCV
3	MCPP	µg/L	25	27.9	111	11	√	85-115	CCV
4	DICHLOROPROP	µg/L	250	239	96	-4	√	85-115	CCV
5	MCPA	µg/L	25000	24100	97	-3	√	85-115	CCV
6	2,4-D	µg/L	1250	1250	100	0	√	85-115	CCV
7	2,4,5-TP (SILVEX)	µg/L	250	254	102	2	√	85-115	CCV
8	2,4,5-T	µg/L	250	257	103	3	√	85-115	CCV
9	DINOSEB (DNBP)	µg/L	250	242	97	-3	√	85-115	CCV
10	2,4 DB	µg/L	1250	1220	98	-2	√	85-115	CCV
				Total CCV Out of Control			0		

Surrogate Components (Channel-A Column: DB-608)

1	2,4-DICHLOROPHENYLACETIC ACID	µg/L	1200	1170	98	-2	√	85-115	CCV
				Total Surrogate Out of Control			0		

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3696.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0410\8151t\04g3696\3696g.q01
ID: ##04G3696,s GC16249 -- Oct 07, 2004 12:47:59
Printed: Oct 8, 2004 10:39:00

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	231.217	7.513	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	256.712	2.685	15.000	Passed
3 4-Nitrophenol	250.000	251.784	0.714	15.000	Passed
4 DCAA(Surr)	1200.000	1166.084	2.826	15.000	Passed
5 Dicamba	250.000	247.923	0.831	15.000	Passed
6 MCPP(ppm)	25.000	27.860	11.439	15.000	Passed
7 MCPA(PPm)	25.000	24.144	3.425	15.000	Passed
8 Dichloroprop	250.000	239.396	4.242	15.000	Passed
9 2,4-D (m)	1250.000	1251.836	0.147	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	241.831	3.268	15.000	Passed
12 Silvex (m)	250.000	253.814	1.526	15.000	Passed
13 Chloramben	250.000	241.818	3.273	15.000	Passed
14 2,4,5-T (m)	250.000	257.250	2.900	15.000	Passed
15 Dinoseb	250.000	241.601	3.360	15.000	Passed
16 2,4-DB	1250.000	1224.729	2.022	15.000	Passed
17 Bentazon	250.000	239.292	4.283	15.000	Passed
18 Picloram	250.000	255.083	2.033	15.000	Passed
19 DCPA	250.000	261.038	4.415	15.000	Passed
20 Acifluorfen	250.000	247.201	1.120	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	212.765	14.894	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	260.423	4.169	15.000	Passed
3 4-Nitrophenol	250.000	289.934	15.974	15.000	Failed
4 DCAA (surr)	1200.000	1127.283	6.060	15.000	Passed
5 Dicamba	250.000	236.620	5.352	15.000	Passed
6 MCPP (ppm)	25.000	44.859	79.437	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	32.181	28.726	15.000	Failed
9 Dichloroprop	250.000	237.830	4.868	15.000	Passed
10 2,4-D (m)	1250.000	1165.896	6.728	15.000	Passed
11 Pentachlorphenol	250.000	238.750	4.500	15.000	Passed
12 Silvex (m)	250.000	248.633	0.547	15.000	Passed
13 2,4,5-T (m)	250.000	250.306	0.122	15.000	Passed
14 Dinoseb	250.000	235.008	5.997	15.000	Passed
15 Chloramben	250.000	250.178	0.071	15.000	Passed

16 2,4-DB	1250.000	1268.471	1.478	15.000	Passed
17 Bentazon	250.000	233.751	6.500	15.000	Passed
18 DCPA	250.000	265.728	6.291	15.000	Passed
19 Picloram	250.000	254.992	1.997	15.000	Passed
20 Acifluorfen	250.000	242.114	3.154	15.000	Passed

Signature _____

FORM-7B

Applied P & CH Laboratories

CCV Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No.:		Lab Code:	APCL
Case No:		SAS No.:		Service ID:	44778
Project ID:	Presidio-Baker Beach 3	Project No.:	175037	Instrument	T
		Batch No.:	04G3696	Sequence No.	04G3696
CCV File:	3696G.Q02	Date Analyzed:	10/07/2004	Time Analyzed:	22:02

Target Components (Channel-A Column: DB-608)

#	Component Name	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	by
1	DALAPON	µg/L	250	223	89	-11	√	85-115	CCV
2	DICAMBA	µg/L	250	246	99	-1	√	85-115	CCV
3	MCPP	µg/L	25000	28500	114	14	√	85-115	CCV
4	DICHLOROPROP	µg/L	250	237	95	-5	√	85-115	CCV
5	MCPA	µg/L	25000	24800	99	-1	√	85-115	CCV
6	2,4-D	µg/L	1250	1250	100	0	√	85-115	CCV
7	2,4,5-TP (SILVEX)	µg/L	250	255	102	2	√	85-115	CCV
8	2,4,5-T	µg/L	250	259	104	4	√	85-115	CCV
9	DINOSEB (DNBP)	µg/L	250	241	96	-4	√	85-115	CCV
10	2,4 DB	µg/L	1250	1230	98	-2	√	85-115	CCV
					Total CCV Out of Control		0		

Surrogate Components (Channel-A Column: DB-608)

1	2,4-DICHLOROPHENYLACETIC ACID	µg/L	1200	1160	97	-3	√	85-115	CCV
					Total Surrogate Out of Control		0		

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3696.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0410\8151t\04g3696\3696g.q02
ID: CCV GC16249 -- Oct 07, 2004 22:02:42
Printed: Oct 11, 2004 11:03:53

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	222.944	10.822	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	253.633	1.453	15.000	Passed
3 4-Nitrophenol	250.000	246.964	1.215	15.000	Passed
4 DCAA(Surr)	1200.000	1162.642	3.113	15.000	Passed
5 Dicamba	250.000	246.482	1.407	15.000	Passed
6 MCPP(ppm)	25.000	28.544	14.175	15.000	Passed
7 MCPA(PPm)	25.000	24.837	0.653	15.000	Passed
8 Dichloroprop	250.000	236.878	5.249	15.000	Passed
9 2,4-D (m)	1250.000	1247.976	0.162	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	242.641	2.944	15.000	Passed
12 Silvex (m)	250.000	254.790	1.916	15.000	Passed
13 Chloramben	250.000	240.443	3.823	15.000	Passed
14 2,4,5-T (m)	250.000	259.145	3.658	15.000	Passed
15 Dinoseb	250.000	240.608	3.757	15.000	Passed
16 2,4-DB	1250.000	1231.192	1.505	15.000	Passed
17 Bentazon	250.000	241.856	3.258	15.000	Passed
18 Picloram	250.000	252.071	0.828	15.000	Passed
19 DCPA	250.000	262.899	5.160	15.000	Passed
20 Acifluorfen	250.000	239.126	4.349	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	171.876	31.250	15.000	Failed
2 3,5-Di-Cl-Bz acid	250.000	255.198	2.079	15.000	Passed
3 4-Nitrophenol	250.000	292.058	16.823	15.000	Failed
4 DCAA (surr)	1200.000	1114.211	7.149	15.000	Passed
5 Dicamba	250.000	233.908	6.437	15.000	Passed
6 MCPP (ppm)	25.000	44.835	79.338	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	32.765	31.061	15.000	Failed
9 Dichloroprop	250.000	237.839	4.864	15.000	Passed
10 2,4-D (m)	1250.000	1135.024	9.198	15.000	Passed
11 Pentachlorphenol	250.000	234.844	6.062	15.000	Passed
12 Silvex (m)	250.000	248.473	0.611	15.000	Passed
13 2,4,5-T (m)	250.000	249.031	0.388	15.000	Passed
14 Dinoseb	250.000	233.962	6.415	15.000	Passed
15 Chloramben	250.000	245.921	1.631	15.000	Passed

16 2,4-DB	1250.000	1232.630	1.390	15.000	Passed
17 Bentazon	250.000	235.060	5.976	15.000	Passed
18 DCPA	250.000	268.570	7.428	15.000	Passed
19 Picloram	250.000	254.255	1.702	15.000	Passed
20 Acifluorfen	250.000	243.998	2.401	15.000	Passed

Signature _____

FORM-7B

Applied P & CH Laboratories

CCV Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No.:		Lab Code:	APCL
Case No:		SAS No.:		Service ID:	44778
Project ID:	Presidio-Baker Beach 3	Project No.:	175037	Instrument	T
		Batch No.:	04G3696	Sequence No.	04G3696
CCV File:	3696G.Q04	Date Analyzed:	10/08/2004	Time Analyzed:	12:57

Target Components (Channel-A Column: DB-608)

#	Component Name	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	by
1	DALAPON	µg/L	250	235	94	-6	√	85-115	CCV
2	DICAMBA	µg/L	250	245	98	-2	√	85-115	CCV
3	MCPP	µg/L	25000	28700	115	15	√	85-115	CCV
4	DICHLOROPROP	µg/L	250	238	95	-5	√	85-115	CCV
5	MCPA	µg/L	25000	26000	104	4	√	85-115	CCV
6	2,4-D	µg/L	1250	1270	101	1	√	85-115	CCV
7	2,4,5-TP (SILVEX)	µg/L	250	253	101	1	√	85-115	CCV
8	2,4,5-T	µg/L	250	247	99	-1	√	85-115	CCV
9	DINOSEB (DNBP)	µg/L	250	245	98	-2	√	85-115	CCV
10	2,4 DB	µg/L	1250	1210	96	-4	√	85-115	CCV
					Total CCV Out of Control		0		

Surrogate Components (Channel-A Column: DB-608)

1	2,4-DICHLOROPHENYLACETIC ACID	µg/L	1200	1180	98	-2	√	85-115	CCV
					Total Surrogate Out of Control		0		

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3696.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0410\8151t\04g3696\3696g.q04
ID: CCV GC16249 -- Oct 08, 2004 12:57:02
Printed: Oct 11, 2004 13:51:44

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	234.598	6.161	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	252.187	0.875	15.000	Passed
3 4-Nitrophenol	250.000	231.686	7.325	15.000	Passed
4 DCAA(Surr)	1200.000	1177.563	1.870	15.000	Passed
5 Dicamba	250.000	245.248	1.901	15.000	Passed
6 MCPP(ppm)	25.000	28.658	14.631	15.000	Passed
7 MCPA(PPm)	25.000	26.006	4.025	15.000	Passed
8 Dichloroprop	250.000	237.874	4.851	15.000	Passed
9 2,4-D (m)	1250.000	1266.777	1.342	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	238.720	4.512	15.000	Passed
12 Silvex (m)	250.000	252.919	1.168	15.000	Passed
13 Chloramben	250.000	229.695	8.122	15.000	Passed
14 2,4,5-T (m)	250.000	247.211	1.115	15.000	Passed
15 Dinoseb	250.000	244.587	2.165	15.000	Passed
16 2,4-DB	1250.000	1206.001	3.520	15.000	Passed
17 Bentazon	250.000	249.895	0.042	15.000	Passed
18 Picloram	250.000	243.002	2.799	15.000	Passed
19 DCPA	250.000	266.470	6.588	15.000	Passed
20 Acifluorfen	250.000	255.026	2.010	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	233.372	6.651	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	266.794	6.718	15.000	Passed
3 4-Nitrophenol	250.000	282.324	12.930	15.000	Passed
4 DCAA (surr)	1200.000	1160.666	3.278	15.000	Passed
5 Dicamba	250.000	236.810	5.276	15.000	Passed
6 MCPP (ppm)	25.000	50.815	103.262	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	37.727	50.908	15.000	Failed
9 Dichloroprop	250.000	246.085	1.566	15.000	Passed
10 2,4-D (m)	1250.000	1129.743	9.621	15.000	Passed
11 Pentachlorphenol	250.000	232.568	6.973	15.000	Passed
12 Silvex (m)	250.000	249.703	0.119	15.000	Passed
13 2,4,5-T (m)	250.000	246.667	1.333	15.000	Passed
14 Dinoseb	250.000	246.958	1.217	15.000	Passed
15 Chloramben	250.000	246.848	1.261	15.000	Passed

16 2,4-DB	1250.000	1270.509	1.641	15.000	Passed
17 Bentazon	250.000	241.986	3.206	15.000	Passed
18 DCPA	250.000	276.661	10.664	15.000	Passed
19 Picloram	250.000	255.826	2.330	15.000	Passed
20 Acifluorfen	250.000	257.629	3.052	15.000	Passed

Signature _____

FORM-7B

Applied P & CH Laboratories

CCV Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No.:		Lab Code:	APCL
Case No:		SAS No.:		Service ID:	44778
Project ID:	Presidio-Baker Beach 3	Project No.:	175037	Instrument	T
		Batch No.:	04G3696	Sequence No.	04G3696
CCV File:	3696G.Q05	Date Analyzed:	10/08/2004	Time Analyzed:	18:40

Target Components (Channel-A Column: DB-608)

#	Component Name	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	by
1	DALAPON	µg/L	250	237	95	-5	√	85-115	CCV
2	DICAMBA	µg/L	250	244	98	-2	√	85-115	CCV
3	MCPP	µg/L	25000	28500	114	14	√	85-115	CCV
4	DICHLOROPROP	µg/L	250	238	95	-5	√	85-115	CCV
5	MCPA	µg/L	25000	25600	102	2	√	85-115	CCV
6	2,4-D	µg/L	1250	1260	100	0	√	85-115	CCV
7	2,4,5-TP (SILVEX)	µg/L	250	253	101	1	√	85-115	CCV
8	2,4,5-T	µg/L	250	254	102	2	√	85-115	CCV
9	DINOSEB (DNBP)	µg/L	250	242	97	-3	√	85-115	CCV
10	2,4 DB	µg/L	1250	1220	97	-3	√	85-115	CCV
					Total CCV Out of Control		0		

Surrogate Components (Channel-A Column: DB-608)

1	2,4-DICHLOROPHENYLACETIC ACID	µg/L	1200	1170	98	-2	√	85-115	CCV
					Total Surrogate Out of Control		0		

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3696.sqt
Method: c:\ezchrom\methods\8151-063.t00
User: Bao Quan Zhang

Check Standard File: c:\data\2004\0410\8151t\04g3696\3696g.q05
ID: CCV GC16249 -- Oct 08, 2004 18:40:55
Printed: Oct 11, 2004 13:54:19

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	236.998	5.201	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	255.581	2.232	15.000	Passed
3 4-Nitrophenol	250.000	252.886	1.154	15.000	Passed
4 DCAA(Surr)	1200.000	1166.716	2.774	15.000	Passed
5 Dicamba	250.000	244.315	2.274	15.000	Passed
6 MCPP(ppm)	25.000	28.504	14.015	15.000	Passed
7 MCPA(PPm)	25.000	25.596	2.385	15.000	Passed
8 Dichloroprop	250.000	237.711	4.916	15.000	Passed
9 2,4-D (m)	1250.000	1255.163	0.413	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	240.967	3.613	15.000	Passed
12 Silvex (m)	250.000	253.056	1.223	15.000	Passed
13 Chloramben	250.000	237.273	5.091	15.000	Passed
14 2,4,5-T (m)	250.000	253.827	1.531	15.000	Passed
15 Dinoseb	250.000	242.373	3.051	15.000	Passed
16 2,4-DB	1250.000	1218.274	2.538	15.000	Passed
17 Bentazon	250.000	240.844	3.662	15.000	Passed
18 Picloram	250.000	246.728	1.309	15.000	Passed
19 DCPA	250.000	262.855	5.142	15.000	Passed
20 Acifluorfen	250.000	243.343	2.663	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	222.423	11.031	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	264.676	5.870	15.000	Passed
3 4-Nitrophenol	250.000	294.680	17.872	15.000	Failed
4 DCAA (surr)	1200.000	1129.893	5.842	15.000	Passed
5 Dicamba	250.000	235.279	5.888	15.000	Passed
6 MCPP (ppm)	25.000	45.171	80.684	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	34.169	36.676	15.000	Failed
9 Dichloroprop	250.000	239.639	4.144	15.000	Passed
10 2,4-D (m)	1250.000	1139.267	8.859	15.000	Passed
11 Pentachlorphenol	250.000	235.337	5.865	15.000	Passed
12 Silvex (m)	250.000	249.584	0.167	15.000	Passed
13 2,4,5-T (m)	250.000	249.134	0.347	15.000	Passed
14 Dinoseb	250.000	239.112	4.355	15.000	Passed
15 Chloramben	250.000	245.664	1.734	15.000	Passed

16 2,4-DB	1250.000	1242.635	0.589	15.000	Passed
17 Bentazon	250.000	238.066	4.773	15.000	Passed
18 DCPA	250.000	271.036	8.414	15.000	Passed
19 Picloram	250.000	254.093	1.637	15.000	Passed
20 Acifluorfen	250.000	247.613	0.955	15.000	Passed

Signature _____

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation Logbook

Batch # 04G 3696 Matrix: S Target method: 8151 A EXT Method: 8151 A Date: 10-06-04

Solvent: Ether Lot # 031271-15; Exchange Solvent: Hexane Lot # C-1870; Analyst: KT

Lot #: Surr.: GC- 16435 Conc.: 80.00ppm Na_2SO_4: ST 1221 ☐ Sonicator Tune

Op. #	Sample Type	Sample ID #	Smpl Amnt (mL or g)	Surr. Vol mL	Extract sub-ID	Final Vol. mL	Dilution F=V/X	pH	Note & Anomaly
1061	MB	04G 3696-1001	50.00	1.00	8151 A	10.00	0.20		
1062	LCS	-101	50.00						
1063	LCSD	-101	50.01						
1064	Sample-1	04-4784-1	50.00						
1065	MS	-5	50.01						
1066	MSD	-5	50.01						
1067	Sample-2	-2	50.00						
1068	Sample-3	-3	49.99						
1069	Sample-4	-4	50.00						
1070	Sample-5	-5	49.98						
1071	Sample-6	-6	50.00						
1072	Sample-7	-7	50.00						
1073	Sample-8	04-4778-1	50.00						
1074	Sample-9								
1075	Sample-10								
1076	Sample-11								
1077	Sample-12								
1078	Sample-13								
1079	Sample-14								
1080	Sample-15								
1081	Sample-16								
1082	Sample-17								
1083	Sample-18								
1084	Sample-19								
1085	Sample-20								
1086	MTX Dup.								
1087	LCS′								
1088	LCSD′								
1089	MS′								
1090	MSD′								

10-06-04 KT

Type	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$
LCS/LCSD	1062	GC-16441	1000 × 2.5 × 1.00 /X= ppb	1063	GC-16441	1000 × 2.5 × 1.00 /X= ppb
MS/MSD	1065	GC- ↓	1000 × ↓ × ↓ /X= ppb	1066	GC- ↓	1000 × ↓ × ↓ /X= ppb
LCS′/LCSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
MS′/MSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb

FILE: [CUST.DOC.GC]PREP_LOG .TEX Root-File: PREP_LOG_ROOT.TEX 1-Page-File: PREP_LOG1.TEX
APCL form 5-128, Nov. 2002; Ver 6.0 No pencil. Use blue pen for record. Use red pen for correction.

Supervisor Initial

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation

Extraction method: 1 3510–separate funnel; 2 3520–L-L continue extraction; 3 3550–Ultrasonic; 4 LUFT–Shaker; 5 3540–Soxhlet; 6 Solid phase Extraction; 7 Microextraction; 8 SFE; 9 Dilution; 10 Concentration; 11 Other, specify.

Service ID: 04-4784 Batch # 046 3696 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by LT Date 10/06/04 Surro Lot GC-16435 Conc. 200 ppm
LCS Lot GC-16441 Conc. 2.5 pp MS Lot GC-16441 Conc. 2.5 pp
Ext. solv. Ether Lot # 031271.15 Exchange solv. Hexane Lot # C-1870

Sample ID	-1001	-2001	-3001	-5002	-5003D	-1	-2	-3
Sample Matrix	S	→						
Sample Amount, X (g/mL)	50.00	50.00	50.01	50.01	50.01	50.00	50.00	49.99
Any TCLP, EP, WET, SPLP ?								
Surr. STD used, mL	1.00	→						
Spike STD used, mL		1.00	→					
[Extracted at pH]	2<1>12	→						
Solvent amount, mL	3×60	×	×	×	×	×	×	×
Final volume, V, mL	10.00	→						
Extraction DF $f_e = V/X$	0.20	→						
Sub-ID of extracts	8151A	→						
Anomaly Footnote† :								

Sample Cleanup

Op. by ____ Date / / (For details, see Cleanup worksheet)

Cleanup method:								
Cleanup DF, f_c								
Preparation DF, $f_1 = f_e\ f_c$								

Pre-injection*:

Op. by AB Date 10/7/04 IS Lot : GC-1630 Conc. 25 ppm

2nd dilution, f_2 (1)	1	→						
V_t, μL (40)								
Single Extract GC, GC/MS Analysis:								
$V_2 = V_t/f_2$, μL (40/f_2)								
$V_{solvent} = V_t - V_2$, μL								
Double Extract GC, GC/MS Analysis:								
$V_> = \frac{1}{2}V_t/f_2$, μL (20/f_2)								
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL ($\frac{20}{f_2}\frac{f_<}{f_>}$)								
$V_{solvent} = V_t - V_> - V_<$								
IS volume, μL (10)	10	→						
Final Conc. of IS (40 ppm)								
Total $F = 2\ f_1\ f_>$ or $f_1\ f_2$	0.20	→						

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

APCL form 7-122 (old 5-110), Ver. 3.0 April 5, 1996. No pencil. Use blue pen for record. Use red pen for correction.
File: [CUST.DOC.GC]EXTRACTION.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation

Extraction method: **1** 3510–separate funnel; **2** 3520–L-L continue extraction; **3** 3550–Ultrasonic; **4** LUFT–Shaker; **5** 3540–Soxhlet; **6** Solid phase Extraction; **7** Microextraction; **8** SFE; **9** Dilution; **10** Concentration; **11** Other, specify.

Service ID: 04-4778 Batch # 046 3696 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

	OP. by	IC	Date	10/6/04	Surro Lot	GC- 16435	Conc.	20.0 pp
	LCS Lot	GC- 16441	Conc.	2.5 pp	MS Lot	GC- 16441	Conc.	2.5 pp
	Ext. solv.	Ether	Lot #	031271.15	Exchage solv.	Hexane	Lot #	C-1870
Sample ID	-1							
Sample Matrix	S							
Sample Amount, X (g/mL)	50.00							
Any TCLP, EP, WET, SPLP ?								
Surr. STD used, mL	1.00							
Spike STD used, mL								
[Extracted at pH]	2<1>12	/	/	/	/	/	/	/
Solvent amount, mL	3×60	×	×	×	×	×	×	×
Final volume, V, mL	10.00							
Extraction DF $f_e = V/X$	0.20							
Sub-ID of extracts	8151A							
Anomaly Footnote† :								

Sample Cleanup

	Op. by		Date	/ /	(For details, see Cleanup worksheet)			
Cleanup method:								
Cleanup DF, f_c								
Preparation DF, $f_1 = f_e\ f_c$								

Pre-injection*:

	Op. by	RD	Date	10/7/04	IS Lot :	GC- 1630	Conc.	25 ppm
2nd dilution, f_2	(1)	1						
V_t, μL	(40)							

Single Extract GC, GC/MS Analysis:

$V_2 = V_t/f_2$, μL	($40/f_2$)							
$V_{solvent} = V_t - V_2$, μL								

Double Extract GC, GC/MS Analysis:

$V_> = \frac{1}{2}V_t/f_2$, μL	($20/f_2$)							
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL	($\frac{20}{f_2}\frac{f_<}{f_>}$)							
$V_{solvent} = V_t - V_> - V_<$								
IS volume, μL	(10)	10						
Final Conc. of IS	(40 ppm)							
Total $F = 2\ f_1\ f_>$ or $f_1\ f_2$		0.20						

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_>$=max[f_A, f_B] and $f_<$=min[f_A, f_B], where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Sequence # 0463696 Starting Date: 10/7/04 Time 12:47 Analyst: RB

Seq. type: ☐ Cal. ☑ Int. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path: C:\data\2004\04\d5157\0463696

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
4713	0463696	S	ccv	3696g.801	8151-063.tec		1		3696g.801	✓	GC16249
4714			mb	601			0.2		601		
4715			lcs	601					601		
4716			lcsd	J01					J01		
4717			ms	$4784-5					m01		
4718			msd	$4784-5					m01		
4719				4784-1					4784.001		
4720				-2					002		
4721				-3					003		
4722				-4					004		
4723				-5					005		
4724			ccv	3696g.802			1		3696g.802		GC16249
4725				4784-6			0.2		4784.006		
4726				-7					007		
4727				4778-1					4778.001	X	
4728			ccv	3696g.803			1		3696g.803	✓	GC16249
4729				804			1		804		
4730				4778-1			0.2		4778.101		
4731	0463698	W	mb	3698g.601			0.01		3698g.601		
4732			lcs	601			1		601		
4733			lcsd	J01					J01		
4734				4748-2					4748.002		
4735			ccv	3696g.805			1		3696g.805		GC16249
4736											
4737											
4738											
4739											
4740											
4741											
4742											

RB 10/11/04

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial 168

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Sequence # 0363116 Starting Date: 7/8/03 Time 13:43 Analyst: RB

Seq. type: ☐ Cal. ☐ Int. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path C:\data\2003\0307\8151C\0363116

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
3369			Ical	50 ppb	8151-063.t00		1		8151-063.050	✓	GC15411
3370				100					100		GC15412
3371				250					250		GC15413
3372				400					400		GC15414
3373				500					500		GC15415
3374	0363116	S	ICV/CCV	3116g.S01					3116g.S01		GC14184
3375			mb	k01			0.2		k01		
3376				3888-1					3888.001		
3377				-2					002		
3378				-4					004		
3379				-5					005		
3380				-6					006		
3381			CCV	3116g.S02			1		3116g.S02		GC15413
3382				3888-8			0.2		3888.008		
				-9					009		
3384				-10					010		
3385				-11					011		
3386				-12					012		
3387				-13					013		
3388				-3					003		
3389			CCV	3116g.S03			1		3116g.S03		GC15413
3390				3888-7			0.2		3888.007		
3391			Lcsd	3116g.J01					3116g.J01		
3392			Lcs	L01					L01		
3393	0363264	S	mb	3264g.k01			0.2		3264g.k01		
3394			Lcs	L01					L01		
3395			Lcsd	J01					J01		
3396				4049-1					4049.001		
3397				-2					002		
3398			CCV	3116g.S04			1		3116g.S04	✓	GC15413

Footnote/Anomaly: END RB 7/9/03

*Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.
Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.
† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).
†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

FILE: [CUST.DOC.GC]GC_LOG .TEX Root-File: GC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]GC_LOG1.TEX
Use blue pen for record. Use red pen for correction.

Supervisor Initial

Level C Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

Applied P & CH Laboratories

Wet Analysis Results for Method ASTM-D2216

Client Name:	Curtis & Tompkins	Project No:	175037	Anal. Method	ASTM-D2216
Project ID:	Presidio-Baker Beach 3	Service ID:	44778	Collected by:	

Component Name: Moisture
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
04-4778-1	BB3EX130[0.5]	Soil	10/01/04	10/05/04	10/05/04	04W4155	%Moisture	0.5	5.9	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 04-4778

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	04W4155	10/5/04	04-4773-01	%moisture	11.08	10.38	7	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

P & Ch Laboratory
nolia Ave. Chino CA 91710
590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

04W4155 SOP: G-86 Batch # _____ SOP: G-86

10/05/04 Analyst WW Date _____ Analyst _____

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times 100\%$		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times 100\%$
1644	4773-1	23.40	33.69	32.55	11.08	Smpl-1					
1645	↓ -2	22.74	39.80	38.90	5.28	Smpl-2					
1646	4774-1	22.38	41.45	38.99	12.90	Smpl-3					
1647	4778-1	23.31	34.18	33.54	5.89	Smpl-4					
Smpl-5						Smpl-5					
Smpl-6						Smpl-6					
Smpl-7						Smpl-7					
Smpl-8						Smpl-8					
Smpl-9						Smpl-9					
Smpl-10						Smpl-10					
Smpl-11						Smpl-11					
Smpl-12						Smpl-12					
Smpl-13						Smpl-13					
Smpl-14						Smpl-14					
Smpl-15						Smpl-15					
Smpl-16						Smpl-16					
Smpl-17						Smpl-17					
Smpl-18						Smpl-18					
Smpl-19						Smpl-19					
Smpl-20						Smpl-20					
MD RW	4773-1	22.28	37.69	36.09	10.38	MD					

Footnote/Anomaly:

APCL form 5-163 Ver. 1.1 Apr. 22, 1996 No pencil. Use blue pen for recording. Use red pen for correction.
File: [CUST.DOC.WET]MOIS.TEX Root-File: MOIS_ROOT.TEX 1-Page-File: MOIS1.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Balance Daily Calibration Worksheet

Weight Set S/N: 12006

Calib. Date	Lab Balance Balance #	Lab Balance 1 g ±0.05g	Lab Balance 10 g ±0.1g	Lab Balance 200 g ±0.5g	Lab Balance Note (C)	Digital Balance Balance #	Digital Balance 1 g ±0.02g	Digital Balance 10 g ±0.05g	Digital Balance 200 g ±0.10g	Digital Balance Note (D) (C) (AR)	Analytical Balance Balance #	Analytical Balance 1 g ±0.0002g	Analytical Balance 10 g ±0.0005g	Analytical Balance 200 g ±0.0010g	Analytical Balance Note (D) (C) (AR)	Calib. by
9/30/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.00	✓ ✓ ✓	C-01	1.0000	10.0002	200.0001	✓ ✓ ✓	Y/N
	A-02					B-03	1.00	10.00	200.01	✓ ✓ ✓	C-02	1.0001	9.9999	200.0000	✓ ✓ ✓	
	A-03					B-05	1.00	10.02	200.05	✓ ✓ ✓	C-					
	A-04					B-06	0.98	9.97	199.96	✓ ✓ ✓	C-					
	A-	9/30/04				B-07	1.00	10.00	200.00	✓ ✓ ✓	C-	9/30/04				
	A-					B-	9/30/04				C-					
10/1/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0000	200.0000	✓ ✓ ✓	Y/N
	A-02					B-03	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0001	9.9999	200.0000	✓ ✓ ✓	
	A-03					B-05	1.00	10.00	200.00	✓ ✓ ✓	C-					
	A-04					B-06	0.98	9.97	199.97	✓ ✓ ✓	C-					
	A-	10/1/04				B-07	1.00	10.00	200.00	✓ ✓ ✓	C-	10/1/04				
	A-					B-	10/1/04				C-					
10/4/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0000	200.0000	✓ ✓ ✓	Y/N
	A-02					B-03	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0001	9.9998	199.9996	✓ ✓ ✓	
	A-03					B-05	1.00	10.00	200.00	✓ ✓ ✓	C-					
	A-04					B-06	0.98	9.97	199.97	✓ ✓ ✓	C-					
	A-	10/4/04				B-07	1.00	10.00	200.00	✓ ✓ ✓	C-	10/4/04				
	A-					B-	10/4/04				C-					
10/5/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0000	200.0000	✓ ✓ ✓	Y/N
	A-02					B-03	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0001	9.9998	199.9997	✓ ✓ ✓	
	A-03					B-05	1.00	10.00	200.00	✓ ✓ ✓	C-					
	A-04					B-06	0.98	9.97	199.98	✓ ✓ ✓	C-					
	A-	10/5/04				B-07	1.00	10.00	200.01	✓ ✓ ✓	C-	10/5/04				
	A-					B-	10/5/04				C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

APCL form 4-213, March 30, 1995. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.

File: [CUST.DOC.LAB]BAL_CAL.TEX Root-File: BAL_CAL_ROOT.TEX 1-Page-File: BAL_CAL1.TEX

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 95118
Date: 10/04/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175036-002	15.6682	22.7036	21.7849	87	13
175036-003	15.3666	22.3494	21.2415	84	16
175036-004	15.3090	22.2962	21.3508	86	14
175036-005	15.2520	22.3842	21.2073	83	17
175036-006	15.4947	22.8542	21.6510	84	16
175036-007	15.5439	22.5112	21.5675	86	14
175036-008	15.1312	22.3711	21.5302	88	12
175036-009	15.3085	22.6655	21.9002	90	10
175036-010	15.4845	22.3561	21.4498	87	13
175037-001	15.4085	22.5399	21.4701	85	15
175037-002	15.5928	22.3215	22.0331	96	4
175037-003	15.0776	22.8708	22.7475	98	2
175037-004	15.1880	22.3783	22.1205	96	4
175037-005	15.1164	22.1976	21.8683	95	5
175037-006	15.0351	22.2819	21.9510	95	5
175037-007	15.3127	22.8333	22.5369	96	4
175037-008	15.3441	22.4302	22.2018	97	3
175037-009	15.4994	22.8985	22.8302	99	1
175037-010	15.3033	22.4211	22.2394	97	3
QC266693	15.3073	22.8775	21.9336	88	12
of 175036-002			RPD:	0.7%	4.6%

10/3/04

95118

Sample	B.C.	Dish #	Tare wt.	Init. wt.	Fin wt.	Comments
Blank	1	30	15.3182	—	15.3184	
175036-	2	41	15.6682	22.7036	21.7849	
DUP	2	000	15.3073	22.8775	21.9336	
	3	40	15.3666	22.3494	21.2415	
	4	24	15.3090	22.2962	21.3508	
	5	26	15.2520	22.3842	21.2073	
	6	21	15.4947	22.8542	21.6510	
	7	4	15.5439	22.5112	21.5675	
	8	35A	15.1312	22.3711	21.5302	
	9	7B	15.3085	22.6655	21.9002	
	10	39	15.4845	22.3561	21.4298	
175037-	1	6	15.4085	22.5399	21.4701	Sample from "B"
	2	1976	15.5928	22.3215	22.0331	end of Tube.
	3	5E1	15.0776	22.8708	22.7475	
	4	173	15.1480	22.3183	22.1205	
	5	71	15.1164	22.1976	21.8683	
	6	134	15.0351	22.2819	21.9510	
	7	34	15.3127	22.8333	22.5369	
	8	3B1	15.3441	22.4302	22.2018	
	9	177	15.4994	22.8985	22.8302	
	10	44	15.3033	22.4211	22.2394	

OVEN TEMP: 103°C
TIME IN: 10:30 A.M.
TIME OUT: 9:20 A.M. ON: 10-4-04

Continued on Page 1

Read and Understood By

R. Manning — Signed — 10/3/04 — Date
MW — Signed — 10/4/04 — Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95118
Date Started: 03-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175036-002		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-003		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-004		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-005		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-006		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-007		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-008		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-009		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175036-010		Presidio Trust	Soil	MOISTURE	04-OCT-2004
175037-001		Treadwell & Rollo	Soil	MOISTURE	04-OCT-2004
175037-002		Treadwell & Rollo	Soil	MOISTURE	04-OCT-2004
175037-003		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175037-004		Treadwell & Rollo	Soil	MOISTURE	05-OCT-2004
175037-005		Treadwell & Rollo	Soil	MOISTURE	05-OCT-2004
175037-006		Treadwell & Rollo	Soil	MOISTURE	05-OCT-2004
175037-007		Treadwell & Rollo	Soil	MOISTURE	04-OCT-2004
175037-008		Treadwell & Rollo	Soil	MOISTURE	04-OCT-2004
175037-009		Treadwell & Rollo	Soil	MOISTURE	04-OCT-2004
175037-010		Treadwell & Rollo	Soil	MOISTURE	04-OCT-2004
QC266693	SDUP of 175036-002		Soil	MOISTURE	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175141
Herbicides by GC/ECD
Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
BB4EX100[0.5]	175141-001
DUP100704A	175141-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/16/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
CHLORINATED HERBICIDES (EPA 8151)

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 10/07/04. The samples were received cold and intact.

Chlorinated Herbicides (EPA 8151):

APCL in Chino, CA performed the analysis. Please see the APCL case narrative.

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2893.12
Project Manager\Contact: Sigrida Renis
Samplers: Dustin Sutherland
Recorder (Signature Required): [signature]

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Pesticides	PCBs	VOCs	SVOCs	Hg	Chlord Herbicides	TPH d/f/g	Metals	Silica gel clean-up	Hold	Remarks
-1 BB4EX100[0.5]	10-7-04	1303		X						X		X	X	X	X	X	X	X	X	X		Analysis from bottom B.
-2 BB4EX101[0.5]		1323		X						X		X							X			
-3 BB4EX102[0.5]		1335		X						X		X							X			
-4 BB4EX103[0.5]		1355		X						X		X							X			
-5 BB4EX104[0.5]		1244		X						X		X							X			
-6 BB4EX105[0.5]		1340		X						X		X							X			
-7 BB4EX106[0.5]		1288		X						X		X							X			
-8 TB100704A		1400			X					X				X								
-9 DUP100704A		1324		X						X	X	X	X	X	X	X	X	X	X	X		DUP100704A
-10 BB4EX107[0.5]		1352		X						X	X	X							X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-7-04	1410	[signature]	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes:
RECEIVED ON ICE

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 10/7/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Soil Cores in Plastic bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4. — Sample Dup100704A on Coc, Label Dup100604A, ID'd by time.

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III		10/8/10/14
(All samples)					to Level IV		
					(8081, PCB		
					8260, 8270		
					HG, T26/ICP		
					TEHM)		

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Curtis & Tompkins
Attention: Steve Stanley
2323 Fifth Street
Berkeley CA 94710
Tel: (510)486-0900 Fax: (510)486-0532

Service ID #: 801-044824
Collected by:
Collected on: 10/07/04

Received: 10/08/04
Extracted: 10/15/04
Tested: 10/11-19/04
Reported: 10/20/04

Sample Description: Soil from BBDA4
Project Description: 175141

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result BB4EX100[0.5] 04-04824-1	Analysis Result DUP100704A 04-04824-2
MOISTURE	ASTM-D2216	%Moisture	0.5	1.3	1.2
CHLORINATED HERBICIDES					
Dilution Factor				1	1
2,4-D	8151A	mg/kg	0.025	<0.025	<0.025
2,4 DB	8151A	mg/kg	0.1	<0.1	<0.1
DALAPON	8151A	mg/kg	0.1	<0.1	<0.1
DICAMBA	8151A	mg/kg	0.01	<0.01	<0.01
DICHLOROPROP	8151A	mg/kg	0.025	<0.025	<0.025
DINOSEB (DNBP)	8151A	mg/kg	0.025	<0.025	<0.025
MCPA	8151A	mg/kg	5	<5	<5
MCPP	8151A	mg/kg	5	<5	<5
2,4,5-T	8151A	mg/kg	0.01	<0.01	<0.01
2,4,5-TP (SILVEX)	8151A	mg/kg	0.01	<0.01	<0.01

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Level D Data Package Deliverables

General Information

Project: 175141

APCL Service ID: 04-4824

Applied P & CH Laboratories
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: BBDA4/175141

For Curtis & Tompkins

APCL Service No: 04-4824

1. Sample Identification

The sample identifications are listed in the following table:

Curtis & Tompkins Sample ID	APCL Sample ID
BB4EX100[0.5]	04-04824-1
DUP100704A	04-04824-2

2. Analytical Methodology

Samples are analyzed by EPA methods
8151A (Chlorinated herbicides),
ASTM-D2216 (Moisture, percent in soil),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

Faxed COC with level 4 request.

6. Anomaly

(1) SW8151A:

MCPA and MCPP percent deviations in the CCVs were outside of control limits, biased high. MCPA and MCPP were not detected in the associated field samples.

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL III

Project Number: 175141
Site: BBDA4

4824

Subcontract Laboratory:
APCL
13760 Magnolia Ave.
Chino, CA 91710
(909) 590-1828
ATTN: Kenny Chan x163

Results due: 10/08/04 Report Level: III

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
BB4EX100[0.5]	10/07	Soil	8150	175141-001	
DUP100704A	10/07	Soil	8150	175141-009	

Notes:	Relinquished By:	Received By:
	Date/Time: 10/7/04 16:30	Date/Time: 10/8/04 0840

Signature on this form constitutes a firm Purchase Order for the services requested above.
Page 1 of 1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL ~~III~~ IV

Project Number: 175141
Site: BBDA4

Subcontract Laboratory:
APCL
13760 Magnolia Ave.
Chino, CA 91710
(909) 590-1828
ATTN: Kenny Chan x163

4824

Results due: 10/08/04 Report Level: ~~III~~ IV

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
BB4EX100[0.5]	10/07	Soil	8150	175141-001	
DUP100704A	10/07	Soil	8150	175141-009	

Notes:	Relinquished By:	Received By:
Cal overnight	[signature]	
C10129000007420	Date/Time: 10/7/04 16:30	Date/Time:

Short QAPP list, Flat File EDD, Level IV

Signature on this form constitutes a firm Purchase Order for the services requested above.
Page 1 of 1

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID 4824 Client Name/Project: Curtis & Tompkins

1. Sample Arrival

Date/Time Received 10/8/04 0840 Date/Time Opened 10/8/04 0840 By (name): Kenny Chan

Custody Transfer: ☐ Client ☑ ~~Golden State~~ Cal Overnite ☐ UPS ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 2
☑ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☑ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None
Temp °C 4.1 _____ _____ _____ _____ _____
(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).
Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12 ✓
If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: _____
Type: ☐ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☑ RUSH TAT: 5 days ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☑ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____
Received/Checked by: Kenny Chan Printed: 8 Oct 2004 7:14 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

04-04824 (0900_ 130) (4860900_ 130)

10/08/04

Part 1: General Information

☐	Company Information	Name:	*Curtis & Tompkins*
		Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
☐	Project Information	Project Description:	*BBDA4*
		Project #:	*175141*
☐	Billing Information	P.O. #:	
		Bill Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
		Lab Project ID:	
		Client Database #:	*1*
☐	Receiving Information	Who Received Sample?	*Kenny*
		Receiving Date/Time:	*10/08/04 0840*
		COC No.	
☐	Shipping Information	Shipping Company	*Express*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*4.1 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA D*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	BB4EX100[0.5]		04-04824-1	S	J		125	1	G	100704	N	0	7	☐
2	DUP100704A		04-04824-2	S	J		125	1	G	100704	N	0	7	☐

Part 3: Analysis Information

Test Items:

- ☐ *8151A* Chlorinated herbicides
- ☐ *8141A* Organo-phosphorus
- ☐ *ASTM-D2216* Moisture, percent in soil
- ☐ *9040B/150.1* pH

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	HERBICIDE	ORGANO	moist	pH	
1	BB4EX100[0.5]		04-04824-1	S	X		X	X	☐
2	DUP100704A		04-04824-2	S	X		X	X	☐

☐ Client"s Requirement: **PLEASE USE CLIENTS CONTROL LIMITS**

Login By JASON M. NARIO

Check By HDG

Level D Data Package Deliverables

Chlorinated Herbicides

Applied P. & Ch Laboratory

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	175141	Collection Date:	10/15/2004
Project ID:	BBDA4	Service ID:	44824	Collected by:	
		Lab Sample ID:	04G3762-MB-01	Received Date:	10/15/2004
Sample ID:	**04G3762-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	10/15/04	Anal. Date:	10/19/04
Batch No:	04G3762	Prep. No:	1 of 1	Anal. Time:	11:06
Data File Name:	3762G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	109
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	75
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

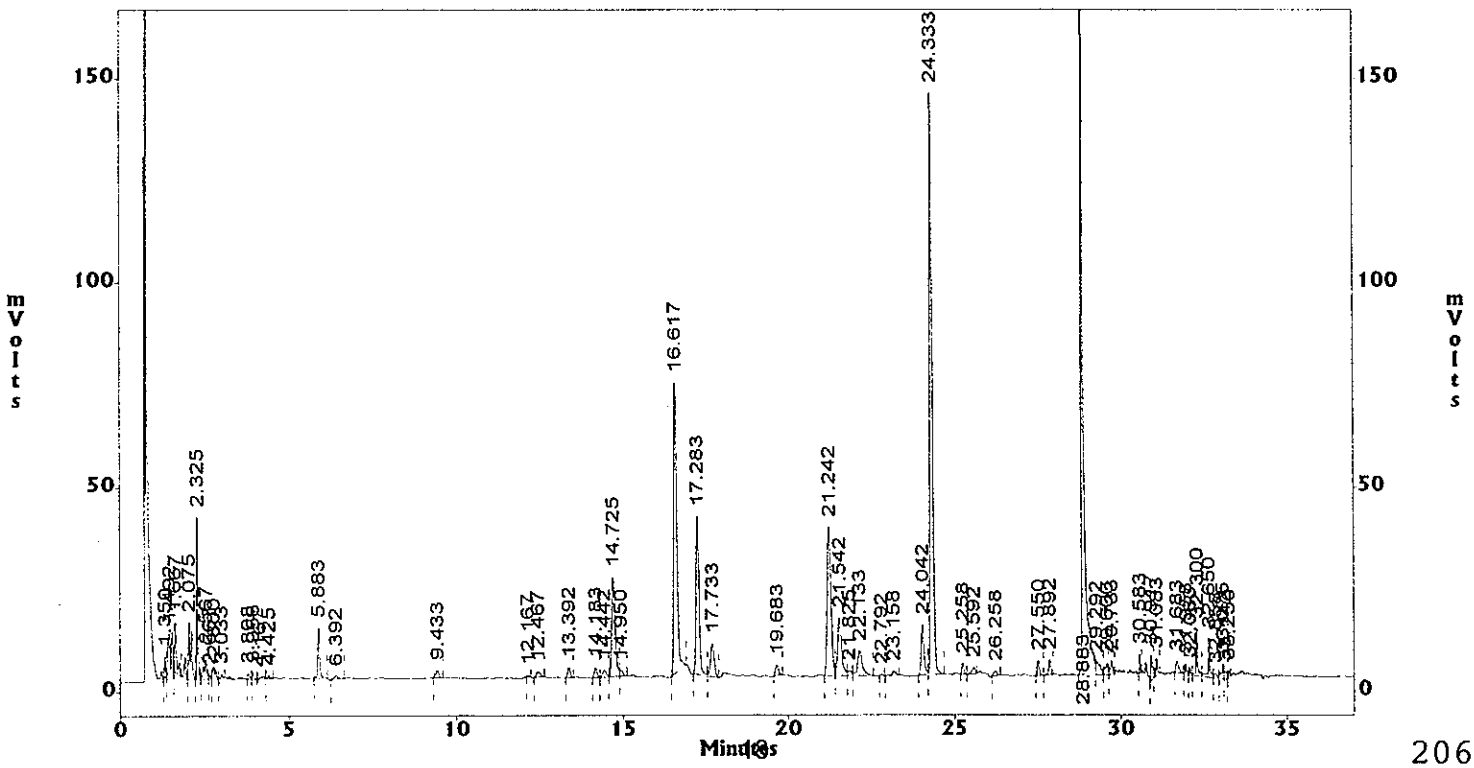
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.k01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : mb f=0.2
Acquired : Oct 19, 2004 11:06:11
Printed : Oct 20, 2004 09:20:09
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
--	1	Dalapon	1.57	0	0	0.000000	0.00
--	2	3,5-Di-Cl-Bz acid	11.65	0	0	0.000000	0.00
--	3	4-Nitrophenol	11.98	0	0	0.000000	0.00
24	4	DCAA(Surr)	16.62	472984	71077	0.073885	2174.90
--	5	Dicamba	17.08	0	0	0.000000	0.00
--	6	MCPP(ppm)	18.71	0	0	0.000000	0.00
27	7	MCPA(PPm)	19.68	16305	2538	0.343572	16.12
30	8	Dichloroprop	21.83	9020	1211	0.099712	30.73
--	9	2,4-D (m)	22.94	0	0	0.000000	0.00
35	10	DBOB (IS)	24.33	735850	142541	1.000000	250.00
36	11	Pentachlorphenol	25.26	12156	2638	1.555308	2.66
--	12	Silvex (m)	26.48	0	0	0.000000	0.00
--	13	Chloramben	26.67	0	0	0.000000	0.00
--	14	2,4,5-T (m)	27.20	0	0	0.000000	0.00
--	15	Dinoseb	28.35	0	0	0.000000	0.00
--	16	2,4-DB	28.51	0	0	0.000000	0.00
--	17	Bentazon	28.82	0	0	0.000000	0.00
--	18	Picloram	29.42	0	0	0.000000	0.00
--	19	DCPA	29.95	0	0	0.000000	0.00
48	20	Acifluorfen	31.68	16572	2733	0.710861	7.92

c:\data\2004\0410\8151t\04g3762\3762g.k01 -- Channel A



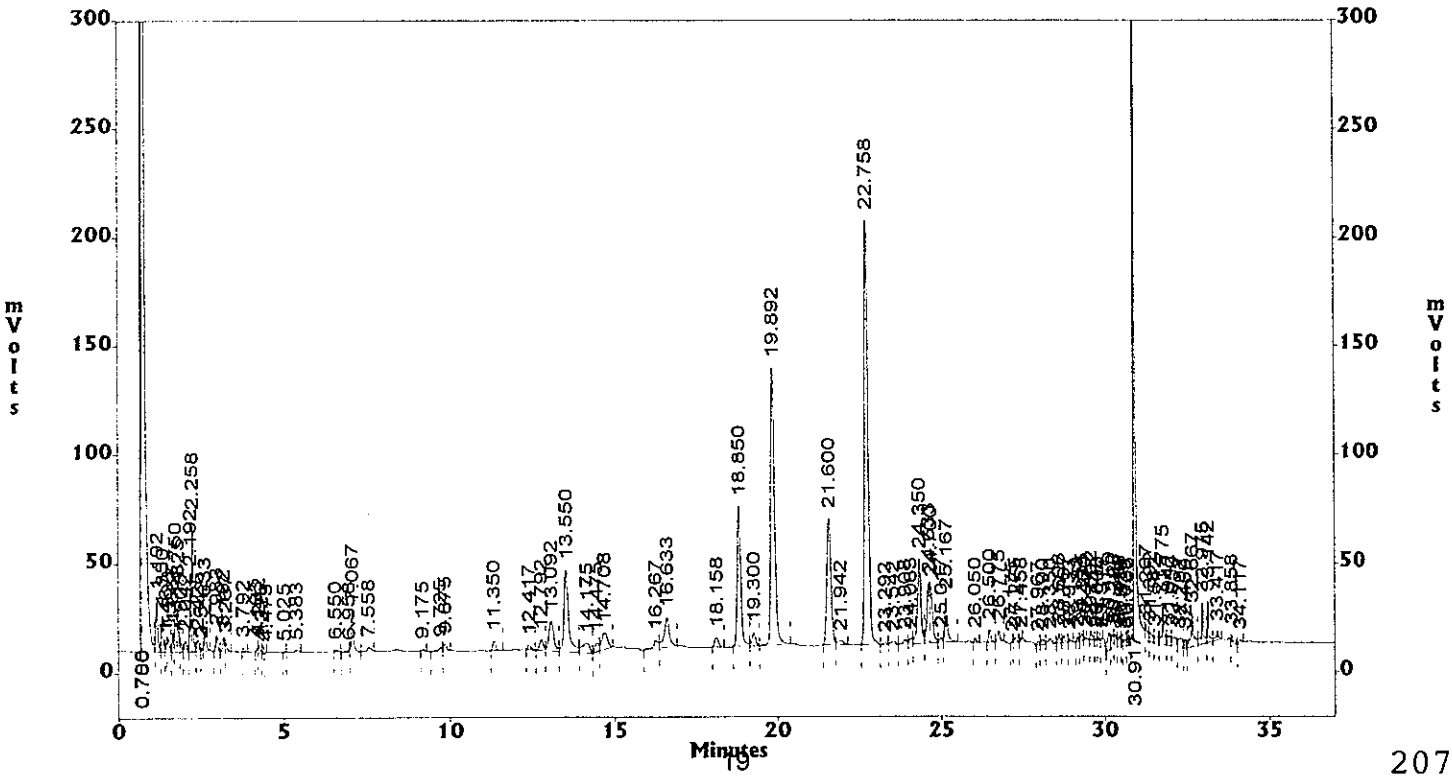
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.k01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : mb f=0.2
Acquired : Oct 19, 2004 11:06:11
Printed : Oct 20, 2004 09:20:10
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
--	1	Dalapon	1.60	0	0	0.000000	0.00
--	2	3,5-Di-Cl-Bz acid	12.18	0	0	0.000000	0.00
--	3	4-Nitrophenol	16.15	0	0	0.000000	0.00
47	4	DCAA (surr)	19.89	1025032	127597	0.085575	2032.15
--	5	Dicamba	21.17	0	0	0.000000	0.00
--	6	MCPP (ppm)	21.39	0	0	0.000000	0.00
50	7	DBOB (IS)	22.76	1473577	195710	1.000000	250.00
--	8	MCPA (ppm)	23.44	0	0	0.000000	0.00
56	9	Dichloroprop	24.63	154450	27288	0.112632	232.64
60	10	2,4-D (m)	26.05	8725	2095	0.105689	14.01
61	11	Pentachlorphenol	26.50	28621	5821	1.620643	3.00
--	12	Silvex (m)	27.81	0	0	0.000000	0.00
--	13	2,4,5-T (m)	28.86	0	0	0.000000	0.00
--	14	Dinoseb	29.03	0	0	0.000000	0.00
73	15	Chloramben	29.33	13760	3015	0.484770	4.82
--	16	2,4-DB	29.50	0	0	0.000000	0.00
84	17	Bentazon	30.63	3128	748	0.068965	7.69
85	18	DCPA	30.71	680	335	0.782016	0.15
87	19	Picloram	31.27	38916	7623	0.820557	8.05
92	20	Acifluorfen	32.05	39104	4208	0.718754	9.23

c:\data\2004\0410\8151t\04g3762\3762g.k01 -- Channel B



Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	175141	Collection Date:	10/07/2004
Project ID:	BBDA4	Service ID:	44824	Collected by:	
		Lab Sample ID:	04-4824-1	Received Date:	10/08/2004
Sample ID:	**BB4EX100[0.5]**	Sample Matrix	Soil	Moisture %:	1.3
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	10/15/04	Anal. Date:	10/19/04
Batch No:	04G3762	Prep. No:	1 of 1	Anal. Time:	15:51
Data File Name:	4824.001	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	100
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	112
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

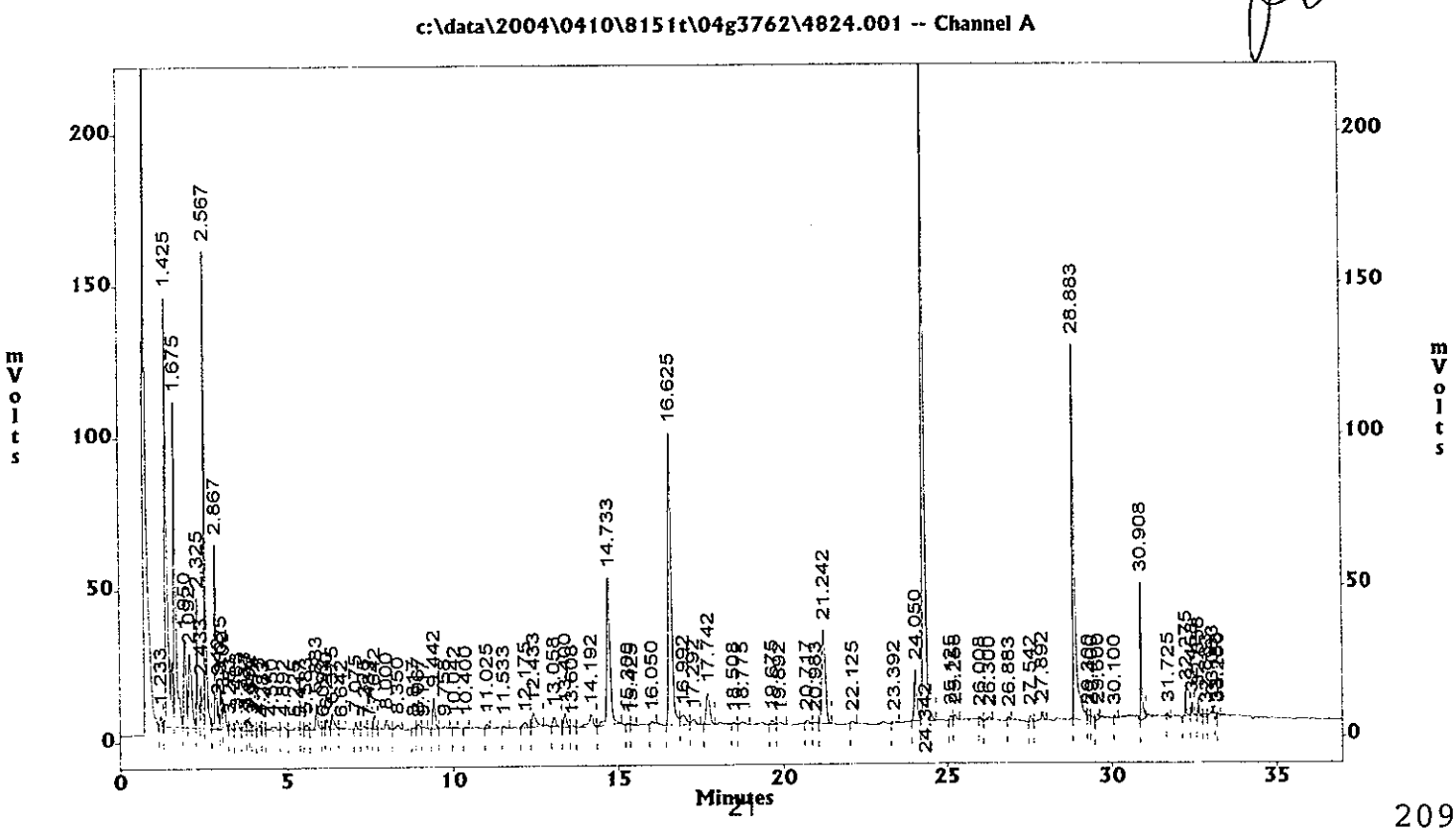
Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0410\8151t\04g3762\4824.001
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 4824-1 f=0.2
Acquired : Oct 19, 2004 15:51:28
Printed : Oct 20, 2004 09:21:37
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
--	1	Dalapon	1.57	0	0	0.000000	0.00
--	2	3,5-Di-Cl-Bz acid	11.65	0	0	0.000000	0.00
--	3	4-Nitrophenol	11.98	0	0	0.000000	0.00
56	4	DCAA(Surr)	16.63	651433	96129	0.073885	1993.10
--	5	Dicamba	17.08	0	0	0.000000	0.00
--	6	MCPP(ppm)	18.71	0	0	0.000000	0.00
62	7	MCPA(PPm)	19.67	8171	1313	0.343572	5.38
--	8	Dichloroprop	21.77	0	0	0.000000	0.00
--	9	2,4-D (m)	22.94	0	0	0.000000	0.00
70	10	DBOB (IS)	24.34	1105920	216933	1.000000	250.00
72	11	Pentachlorphenol	25.26	9324	1848	1.555308	1.36
--	12	Silvex (m)	26.48	0	0	0.000000	0.00
--	13	Chloramben	26.67	0	0	0.000000	0.00
--	14	2,4,5-T (m)	27.20	0	0	0.000000	0.00
--	15	Dinoseb	28.35	0	0	0.000000	0.00
--	16	2,4-DB	28.51	0	0	0.000000	0.00
--	17	Bentazon	28.82	0	0	0.000000	0.00
80	18	Picloram	29.40	12372	2171	0.745522	3.75
--	19	DCPA	29.95	0	0	0.000000	0.00
84	20	Acifluorfen	31.73	4746	1198	0.710861	1.51

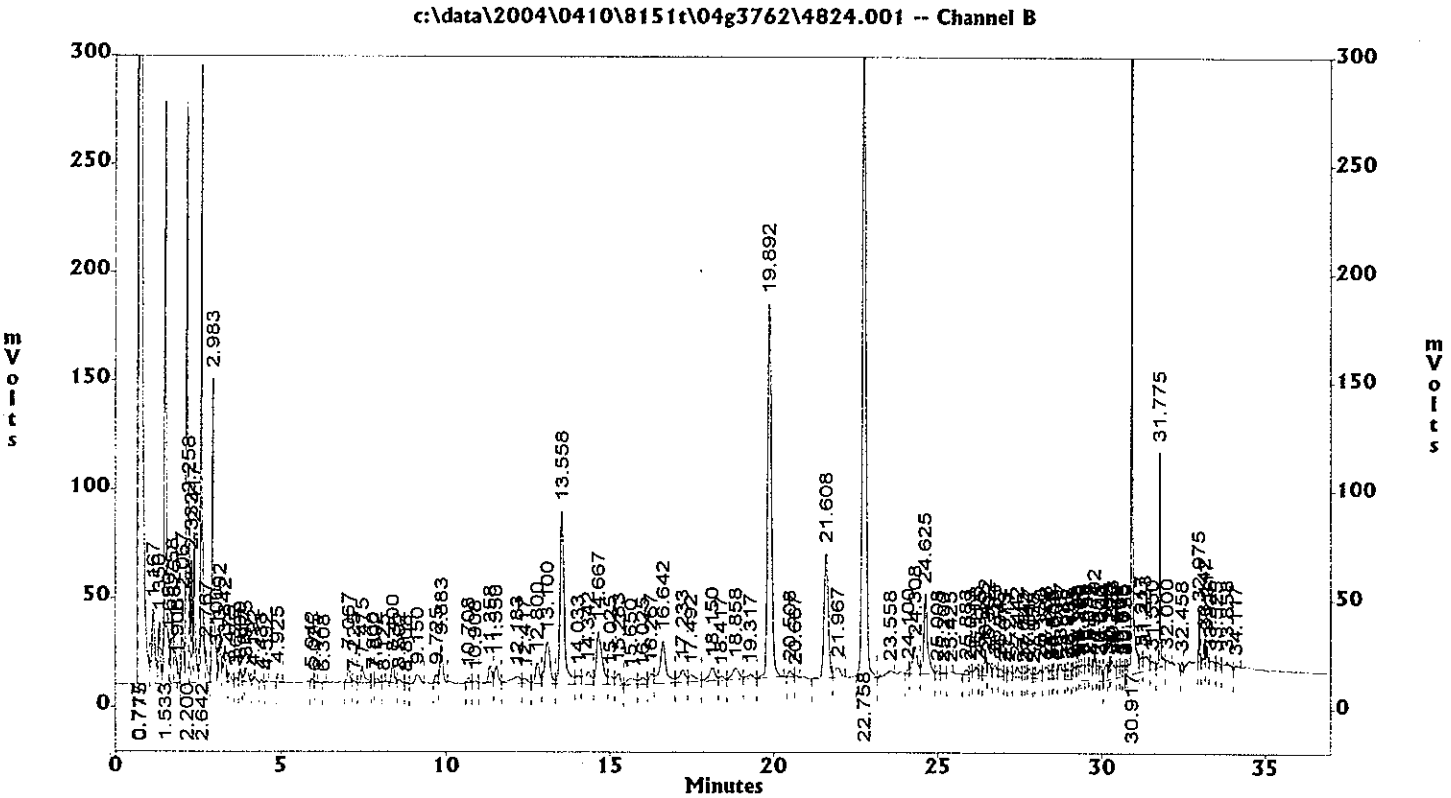


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0410\8151t\04g3762\4824.001
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 4824-1 f=0.2
Acquired : Oct 19, 2004 15:51:28
Printed : Oct 20, 2004 09:21:38
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
6	1	Dalapon	1.65	48100	19632	0.159073	33.08
49	2	3,5-Di-Cl-Bz acid	12.18	65412	3362	0.140157	51.06
--	3	4-Nitrophenol	16.15	0	0	0.000000	0.00
69	4	DCAA (surr)	19.89	1346997	172104	0.085575	1722.15
--	5	Dicamba	21.17	0	0	0.000000	0.00
--	6	MCPP (ppm)	21.39	0	0	0.000000	0.00
74	7	DBOB (IS)	22.76	2285006	305763	1.000000	250.00
--	8	MCPA (ppm)	23.44	0	0	0.000000	0.00
78	9	Dichloroprop	24.63	301196	37003	0.112632	292.58
--	10	2,4-D (m)	26.09	0	0	0.000000	0.00
86	11	Pentachlorphenol	26.49	41937	7546	1.620643	2.83
95	12	Silvex (m)	27.82	28009	4393	0.623829	4.91
--	13	2,4,5-T (m)	28.86	0	0	0.000000	0.00
104	14	Dinoseb	28.99	31385	5094	0.496953	6.91
108	15	Chloramben	29.35	25970	6846	0.484770	5.86
--	16	2,4-DB	29.50	0	0	0.000000	0.00
120	17	Bentazon	30.61	25373	5657	0.068965	40.25
121	18	DCPA	30.67	21944	5238	0.782016	3.07
124	19	Picloram	31.22	45459	7170	0.820557	6.06
--	20	Acifluorfen	32.08	0	0	0.000000	0.00



Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	175141	Collection Date:	10/07/2004
Project ID:	BBDA4	Service ID:	44824	Collected by:	
		Lab Sample ID:	04-4824-2	Received Date:	10/08/2004
Sample ID:	**DUP100704A**	Sample Matrix	Soil	Moisture %:	1.2
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	10/15/04	Anal. Date:	10/19/04
Batch No:	04G3762	Prep. No:	1 of 1	Anal. Time:	17:06
Data File Name:	4824.002	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	100
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	114
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

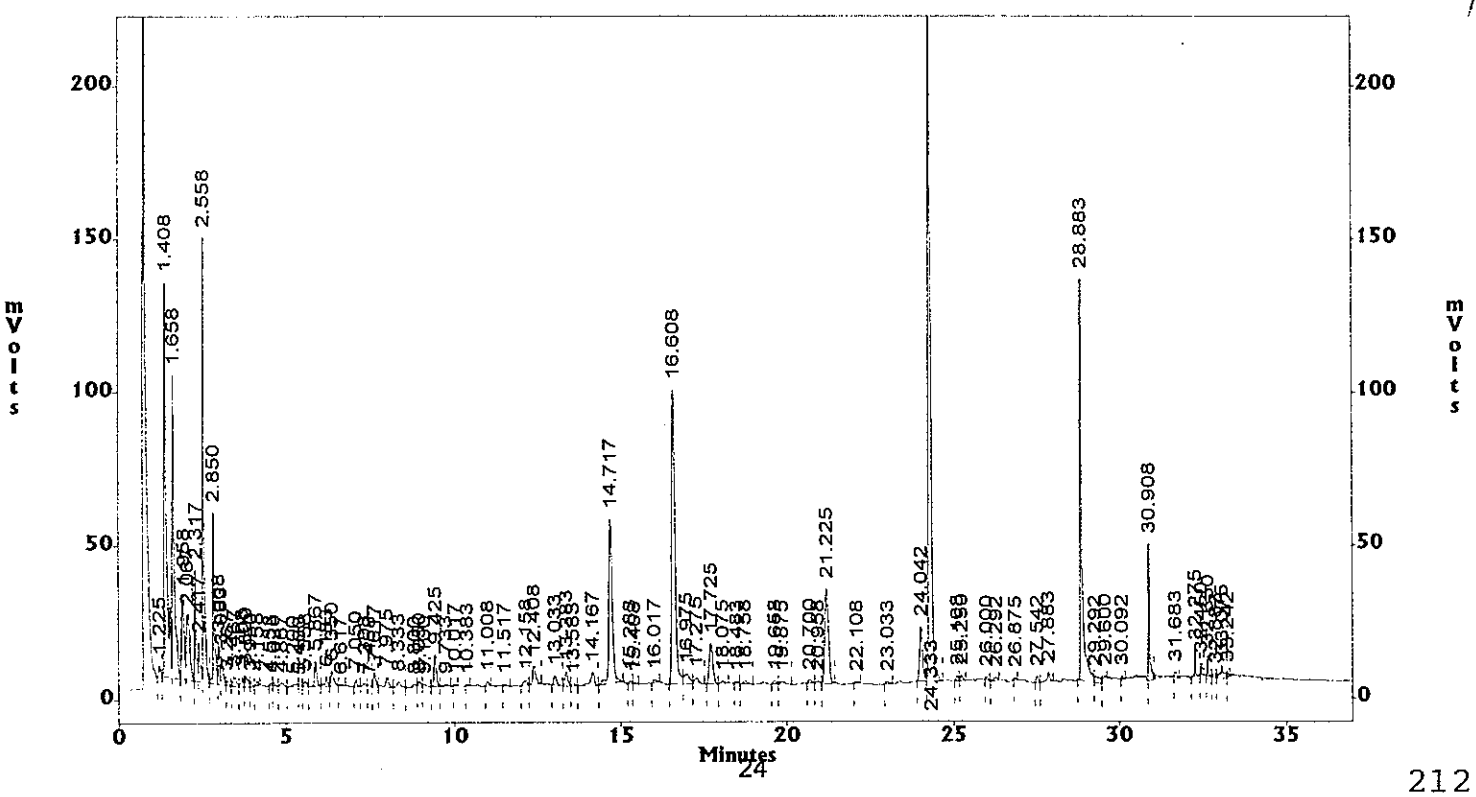
File : c:\data\2004\0410\8151t\04g3762\4824.002
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 4824-2 f=0.2
Acquired : Oct 19, 2004 17:06:03
Printed : Oct 20, 2004 09:22:04
User : Bao Quan Zhang

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
-- 1	Dalapon	1.57	0	0	0.000000	0.00
-- 2	3,5-Di-Cl-Bz acid	11.65	0	0	0.000000	0.00
-- 3	4-Nitrophenol	11.98	0	0	0.000000	0.00
53 4	DCAA(Surr)	16.61	662052	95981	0.073885	1997.67
-- 5	Dicamba	17.08	0	0	0.000000	0.00
-- 6	MCPP(ppm)	18.71	0	0	0.000000	0.00
60 7	MCPA(PPm)	19.66	6245	1018	0.343572	4.05
-- 8	Dichloroprop	21.77	0	0	0.000000	0.00
-- 9	2,4-D (m)	22.94	0	0	0.000000	0.00
68 10	DBOB (IS)	24.33	1121372	217315	1.000000	250.00
70 11	Pentachlorphenol	25.25	10031	1884	1.555308	1.44
-- 12	Silvex (m)	26.48	0	0	0.000000	0.00
-- 13	Chloramben	26.67	0	0	0.000000	0.00
-- 14	2,4,5-T (m)	27.20	0	0	0.000000	0.00
-- 15	Dinoseb	28.35	0	0	0.000000	0.00
-- 16	2,4-DB	28.51	0	0	0.000000	0.00
-- 17	Bentazon	28.82	0	0	0.000000	0.00
-- 18	Picloram	29.42	0	0	0.000000	0.00
-- 19	DCPA	29.95	0	0	0.000000	0.00
81 20	Acifluorfen	31.68	8634	1622	0.710861	2.71

NY
10-20-04

c:\data\2004\0410\8151t\04g3762\4824.002 -- Channel A

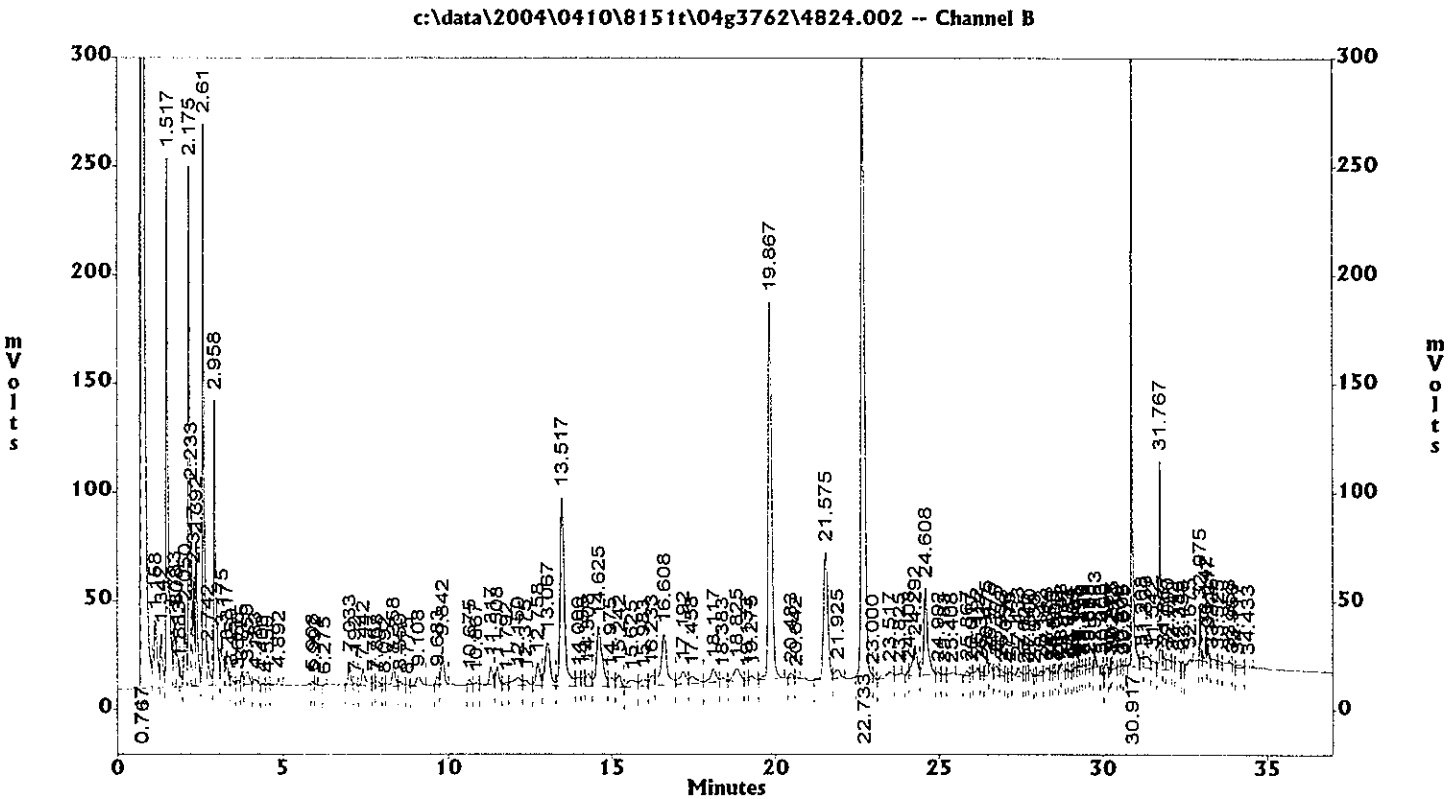


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0410\8151t\04g3762\4824.002
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 4824-2 f=0.2
Acquired : Oct 19, 2004 17:06:03
Printed : Oct 20, 2004 09:22:05
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
--	1	Dalapon	1.60	0	0	0.000000	0.00
47	2	3,5-Di-Cl-Bz acid	12.15	59901	3637	0.140157	46.31
--	3	4-Nitrophenol	16.15	0	0	0.000000	0.00
69	4	DCAA (surr)	19.87	1369939	173528	0.085575	1734.80
--	5	Dicamba	21.17	0	0	0.000000	0.00
--	6	MCPP (ppm)	21.39	0	0	0.000000	0.00
74	7	DBOB (IS)	22.73	2306980	308104	1.000000	250.00
--	8	MCPA (ppm)	23.44	0	0	0.000000	0.00
80	9	Dichloroprop	24.61	319932	40333	0.112632	307.82
--	10	2,4-D (m)	26.09	0	0	0.000000	0.00
88	11	Pentachlorphenol	26.48	39080	7033	1.620643	2.61
97	12	Silvex (m)	27.80	18869	3472	0.623829	3.28
--	13	2,4,5-T (m)	28.86	0	0	0.000000	0.00
107	14	Dinoseb	28.98	5217	1426	0.496953	1.14
111	15	Chloramben	29.35	7750	2108	0.484770	1.73
--	16	2,4-DB	29.50	0	0	0.000000	0.00
122	17	Bentazon	30.61	5002	1749	0.068965	7.86
123	18	DCPA	30.67	2943	977	0.782016	0.41
125	19	Picloram	31.21	29812	5082	0.820557	3.94
--	20	Acifluorfen	32.08	0	0	0.000000	0.00



FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	044824
Project ID:	BBDA4	Project No:	175141	Sample Matrix:	Soil
		Batch No:	04G3762		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G3762-MB-01	04G3762-MB-01	109	0
2	BB4EX100[0.5]	04-4824-1	100	0
3	DUP100704A	04-4824-2	100	0
4	04G3762-LCS-01	04G3762-LCS-01	79	0
5	04G3762-LSD-01	04G3762-LSD-01	79	0
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	44824
Project ID:	BBDA4	Project No:	175141	Sample Matrix:	Soil
		Batch No:	04G3762		
LCS Filename:	3762G.L01	Date Analyzed:	101904	Time Analyzed:	17:46
LCSD Filename:	3762G.J01	Date Analyzed:	101904	Time Analyzed:	18:27

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0485	97	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0398	80	65-135
2,4,5-T	mg/kg	0.050	0	0.0394	79	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0494	99	2	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0402	80	0	35	65-135
2,4,5-T	mg/kg	0.050	0.0393	79	0	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

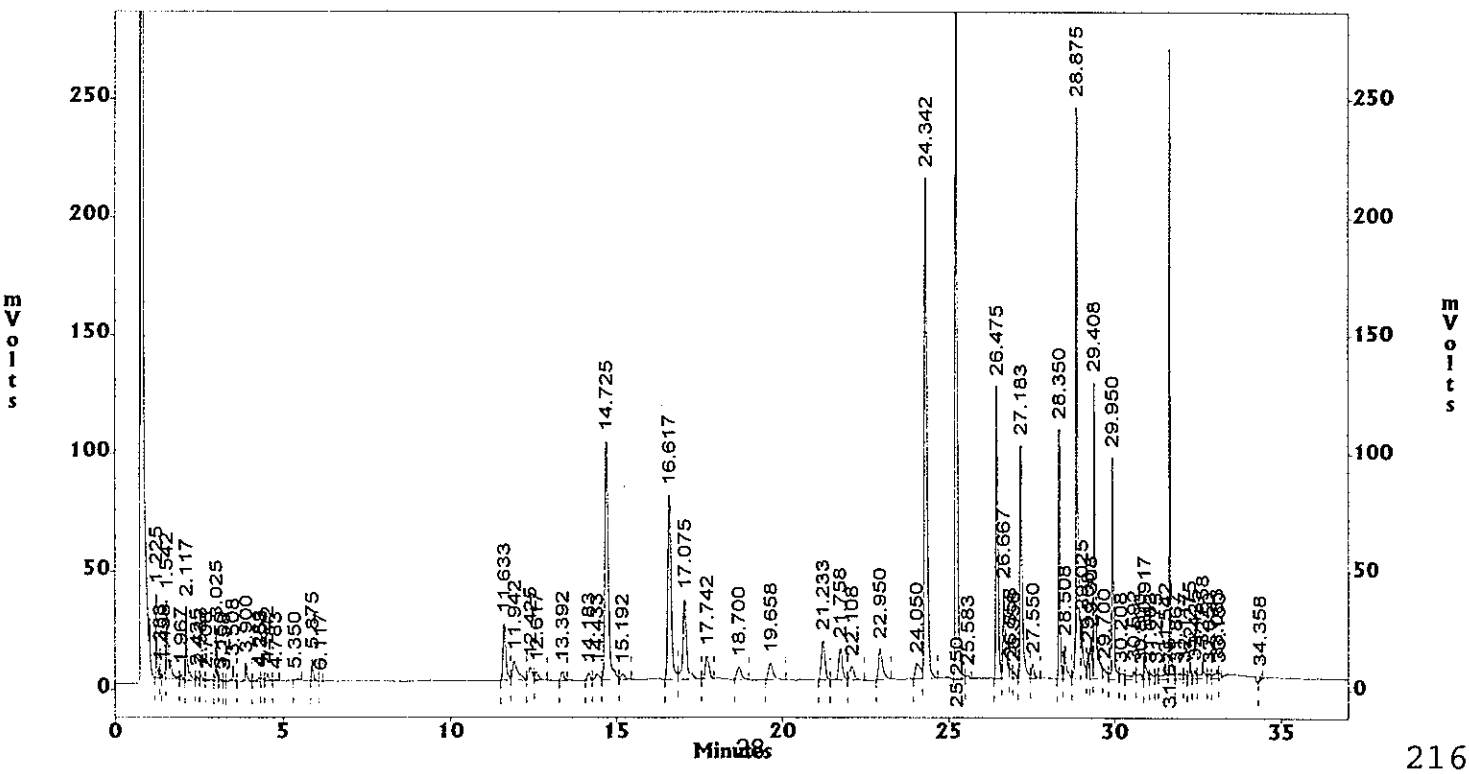
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.101
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcs f=0.2
Acquired : Oct 19, 2004 17:46:47
Printed : Oct 20, 2004 09:20:30
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
4	1	Dalapon	1.54	146372	33075	0.129749	243.76
22	2	3,5-Di-Cl-Bz acid	11.63	146408	24077	0.125046	252.99
23	3	4-Nitrophenol	11.94	87837	8535	0.070732	268.33
31	4	DCAA(Surr)	16.62	542618	78024	0.073885	1586.88
32	5	Dicamba	17.08	268594	33739	0.353447	164.20
34	6	MCPP(ppm)	18.70	48860	5242	0.179235	58.90
35	7	MCPA(PPm)	19.66	69917	7014	0.343572	43.97
37	8	Dichloroprop	21.76	107565	13520	0.099712	233.09
39	9	2,4-D (m)	22.95	113363	13313	0.101099	242.29
41	10	DBOB (IS)	24.34	1156999	212554	1.000000	250.00
42	11	Pentachlorphenol	25.25	1339966	282732	1.555308	186.16
44	12	Silvex (m)	26.48	513913	124164	0.558710	198.75
45	13	Chloramben	26.67	204468	38043	0.444269	99.45
48	14	2,4,5-T (m)	27.18	487180	98916	0.534963	196.78
50	15	Dinoseb	28.35	333910	106058	0.419514	171.98
51	16	2,4-DB	28.51	71847	14095	0.056452	275.00
--	17	Bentazon	28.82	0	0	0.000000	0.00
56	18	Picloram	29.41	455653	125962	0.745522	132.06
58	19	DCPA	29.95	320550	94208	0.763057	90.77
66	20	Acifluorfen	31.67	498064	267202	0.710861	151.39

c:\data\2004\0410\8151t\04g3762\3762g.I01 -- Channel A



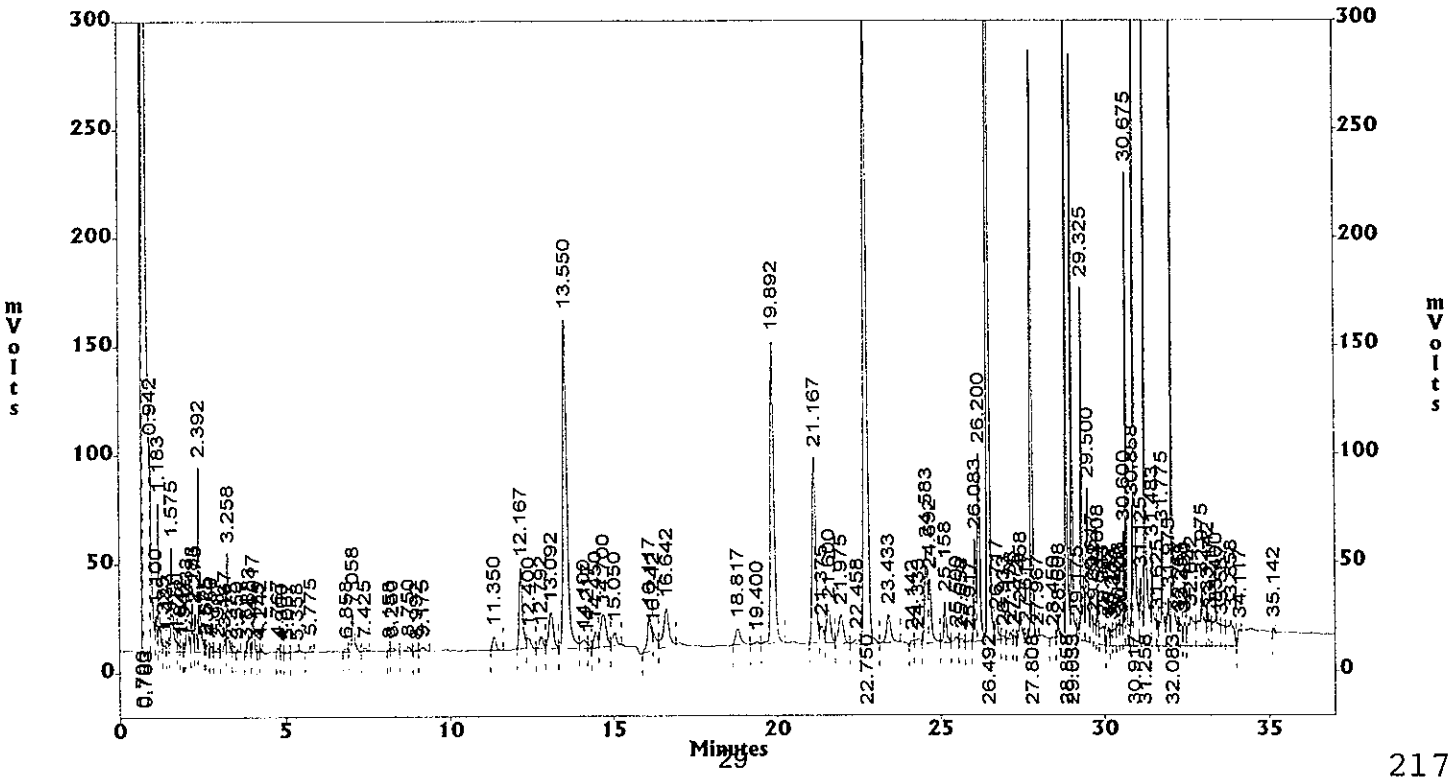
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.l01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcs f=0.2
Acquired : Oct 19, 2004 17:46:47
Printed : Oct 20, 2004 09:20:31
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
8	1	Dalapon	1.58	212048	47648	0.159073	152.60
43	2	3,5-Di-Cl-Bz acid	12.17	257541	37494	0.140157	210.35
53	3	4-Nitrophenol	16.12	139926	15613	0.073447	218.09
58	4	DCAA (surr)	19.89	1094013	139099	0.085575	1463.48
59	5	Dicamba	21.17	655063	85568	0.377820	198.48
60	6	MCPP (ppm)	21.38	65945	8088	0.224210	33.67
64	7	DBOB (IS)	22.75	2183872	290379	1.000000	250.00
65	8	MCPA (ppm)	23.43	116602	12974	0.438923	30.41
68	9	Dichloroprop	24.58	258969	43792	0.112632	263.21
74	10	2,4-D (m)	26.08	217377	47292	0.105689	235.45
76	11	Pentachlorphenol	26.49	2501710	580544	1.620643	176.71
83	12	Silvex (m)	27.81	1028899	271371	0.623829	188.81
87	13	2,4,5-T (m)	28.86	959773	311949	0.541272	202.99
88	14	Dinoseb	29.03	757402	269746	0.496953	174.47
90	15	Chloramben	29.33	518855	162861	0.484770	122.52
91	16	2,4-DB	29.50	315567	70878	0.064394	560.99
101	17	Bentazon	30.60	121678	52954	0.068965	201.97
102	18	DCPA	30.67	474466	218557	0.782016	69.45
106	19	Picloram	31.26	1119912	461275	0.820557	156.24
111	20	Acifluorfen	32.08	1143011	566480	0.718754	182.05

c:\data\2004\0410\8151t\04g3762\3762g.l01 -- Channel B



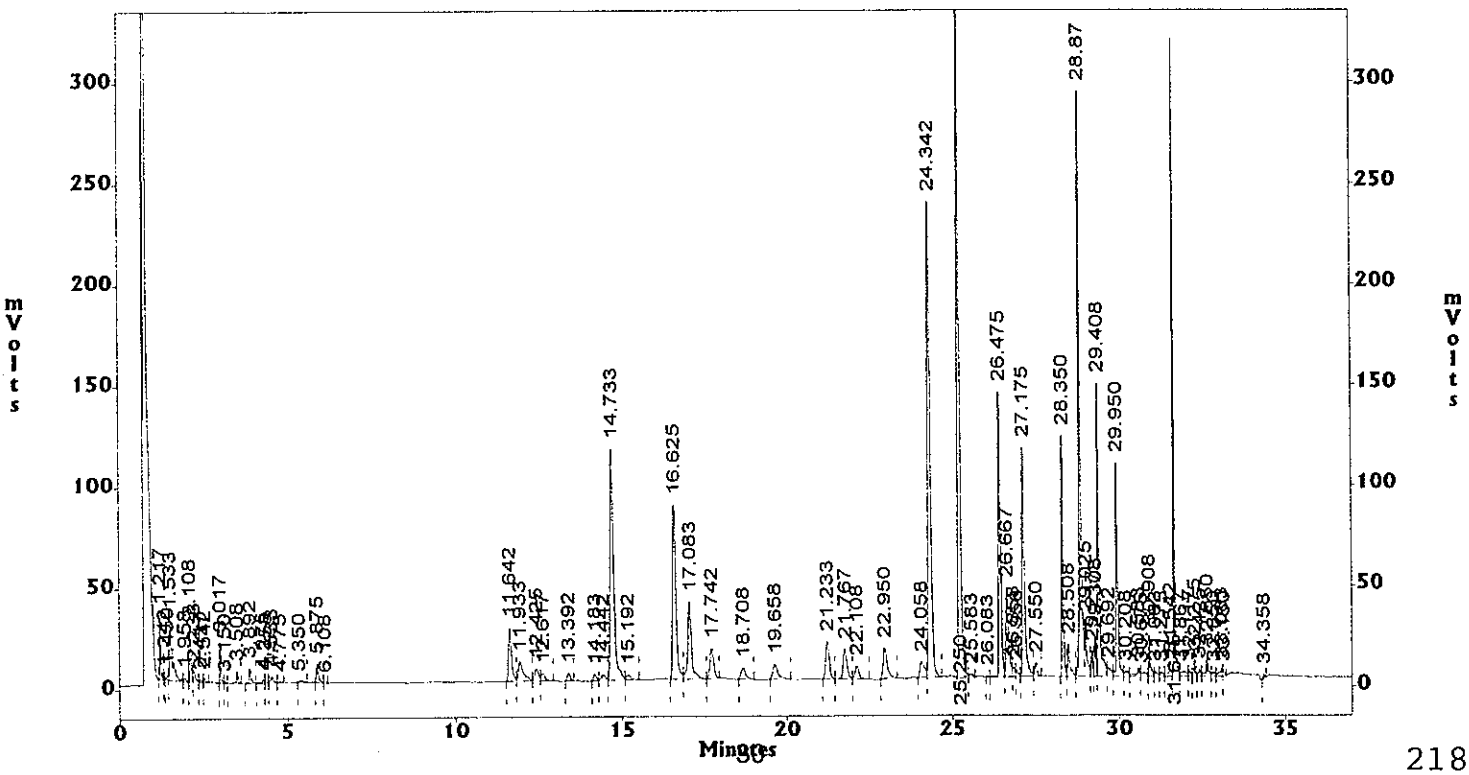
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.j01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcsd f=0.2
Acquired : Oct 19, 2004 18:27:35
Printed : Oct 20, 2004 09:20:52
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
4	1	Dalapon	1.53	171458	30247	0.129749	250.41
21	2	3,5-Di-Cl-Bz acid	11.64	168455	26747	0.125046	255.27
22	3	4-Nitrophenol	11.93	102265	9880	0.070732	273.97
30	4	DCAA(Surr)	16.63	617129	86612	0.073885	1582.74
31	5	Dicamba	17.08	306682	38440	0.353447	164.42
33	6	MCPP(ppm)	18.71	54507	5710	0.179235	57.63
34	7	MCPA(PPm)	19.66	76821	7559	0.343572	42.37
36	8	Dichloroprop	21.77	122778	15127	0.099712	233.33
38	9	2,4-D (m)	22.95	131845	15550	0.101099	247.12
40	10	DBOB (IS)	24.34	1319314	236077	1.000000	250.00
41	11	Pentachlorphenol	25.25	1538181	330884	1.555308	187.41
44	12	Silvex (m)	26.48	592943	141660	0.558710	201.10
45	13	Chloramben	26.67	241332	44288	0.444269	102.93
48	14	2,4,5-T (m)	27.17	554370	113772	0.534963	196.37
50	15	Dinoseb	28.35	383797	119663	0.419514	173.36
51	16	2,4-DB	28.51	81599	16278	0.056452	273.90
--	17	Bentazon	28.82	0	0	0.000000	0.00
56	18	Picloram	29.41	520280	145922	0.745522	132.24
58	19	DCPA	29.95	358161	106147	0.763057	88.94
66	20	Acifluorfen	31.67	578054	317006	0.710861	154.09

c:\data\2004\0410\8151t\04g3762\3762g.j01 -- Channel A



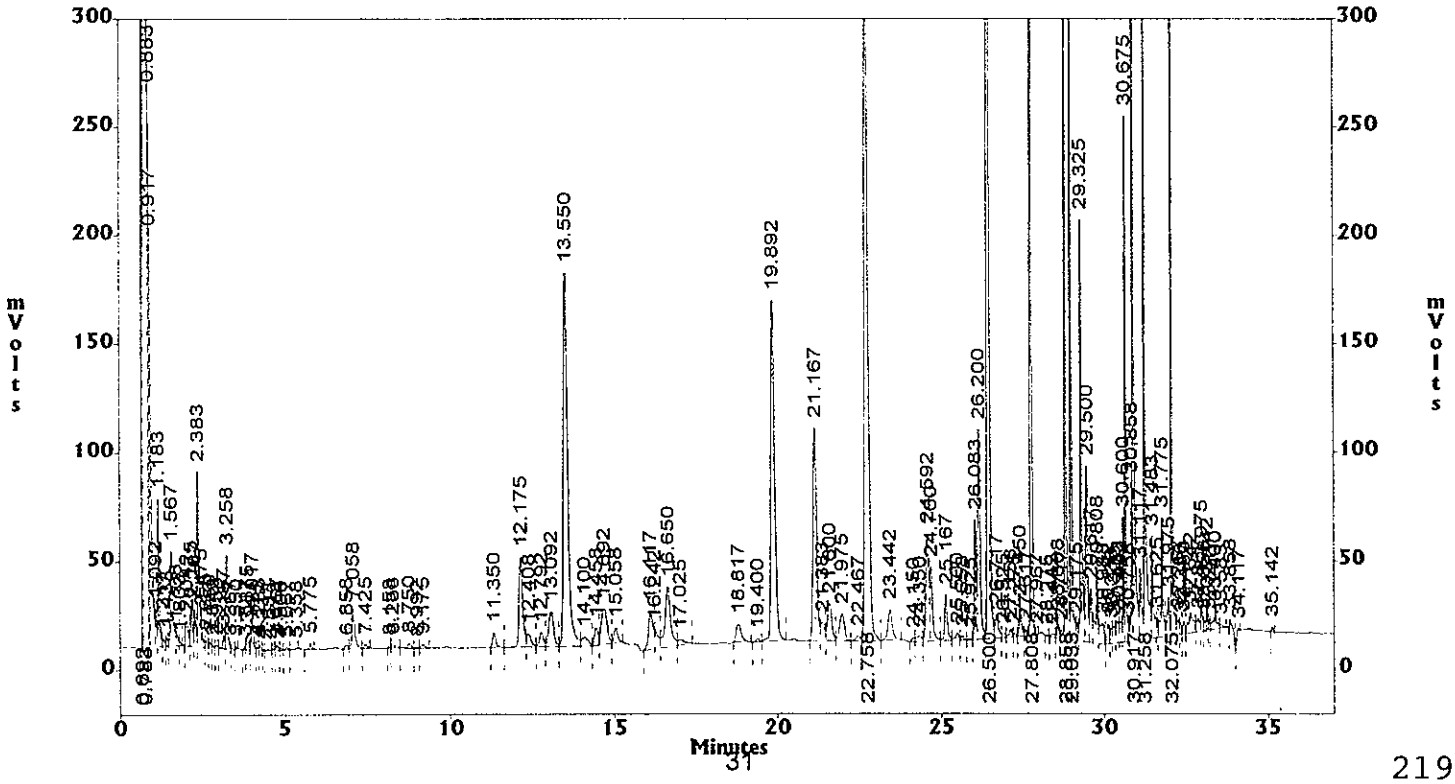
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.j01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : lcsd f=0.2
Acquired : Oct 19, 2004 18:27:35
Printed : Oct 20, 2004 09:20:53
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
9	1	Dalapon	1.57	216556	43632	0.159073	135.95
47	2	3,5-Di-Cl-Bz acid	12.18	311678	41625	0.140157	222.08
56	3	4-Nitrophenol	16.12	169261	18120	0.073447	230.14
62	4	DCAA (surr)	19.89	1250850	156887	0.085575	1459.73
63	5	Dicamba	21.17	749953	98227	0.377820	198.23
64	6	MCPP (ppm)	21.38	71230	8836	0.224210	31.73
68	7	DBOB (IS)	22.76	2503362	325833	1.000000	250.00
69	8	MCPA (ppm)	23.44	130013	14328	0.438923	29.58
72	9	Dichloroprop	24.59	310174	49958	0.112632	275.02
78	10	2,4-D (m)	26.08	250149	55277	0.105689	236.37
80	11	Pentachlorphenol	26.50	2870412	664305	1.620643	176.88
87	12	Silvex (m)	27.81	1176315	320777	0.623829	188.31
93	13	2,4,5-T (m)	28.86	1119299	359813	0.541272	206.51
94	14	Dinoseb	29.03	879906	308357	0.496953	176.82
96	15	Chloramben	29.33	611019	194401	0.484770	125.87
97	16	2,4-DB	29.50	347967	81349	0.064394	539.64
106	17	Bentazon	30.60	129332	57669	0.068965	187.28
107	18	DCPA	30.67	504052	242514	0.782016	64.37
112	19	Picloram	31.26	1222069	529443	0.820557	148.73
117	20	Acifluorfen	32.08	1228668	633313	0.718754	170.71

c:\data\2004\0410\8151t\04g3762\3762g.j01 -- Channel B



FORM-4B

Applied P & CH Laboratories

Method Blank Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	44824
Project ID:	BBDA4	Project No:	175141	Analysis Date:	10/19/04
		Sample Matrix:	Soil	Analysis Time:	11:06
Sample ID:	**04G3762-MB-01**	Batch No:	04G3762	Instrument ID:	GC: T
Lab Sample ID:	04G3762-MB-01	Data File Name:	3762G.K01	GC Column:	DB-608
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	BB4EX100[0.5]	04-4824-1	Field Sample	4824.001	10/19/04	15:51
2	DUP100704A	04-4824-2	Field Sample	4824.002	10/19/04	17:06
3	04G3762-LCS-01	04G3762-LCS-01	Lab Control Spike	3762G.L01	10/19/04	17:46
4	04G3762-LSD-01	04G3762-LSD-01	Lab Control Spike Duplicate	3762G.J01	10/19/04	18:27
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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22						
23						
24						
25						

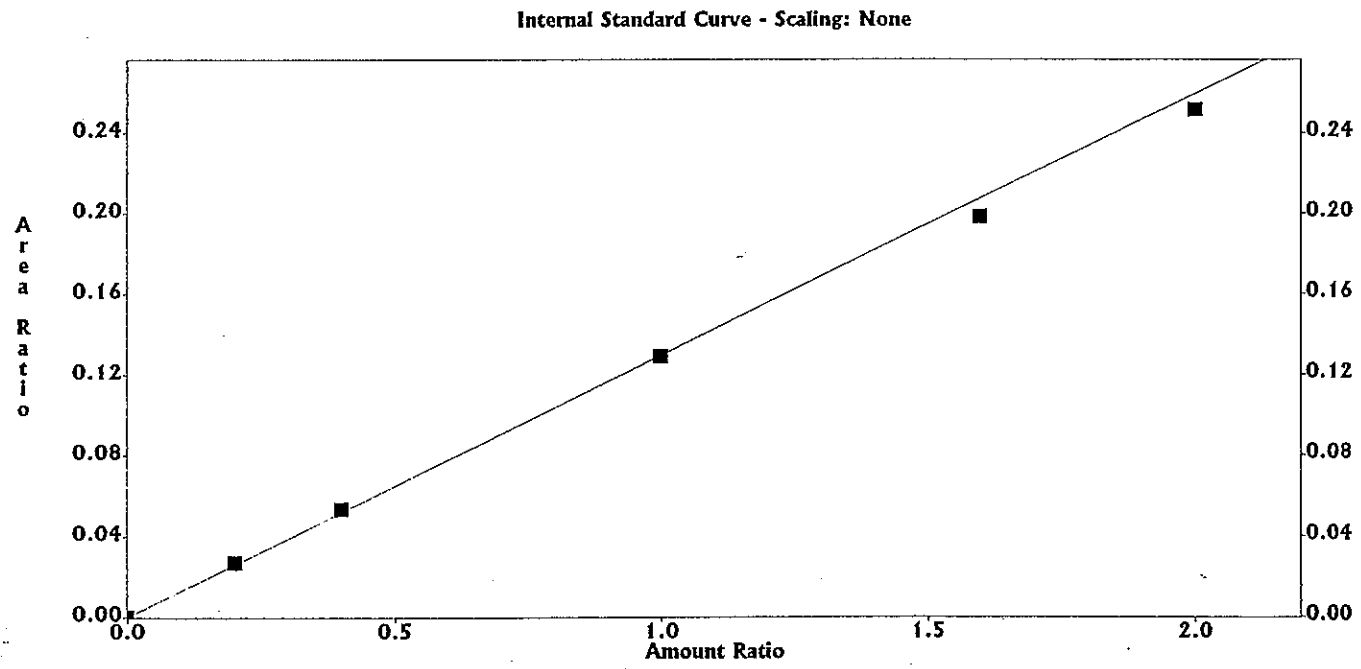
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 1 Dalapon

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0271	0.2	0.1355	0.0271							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1294	1	0.1294	0.1294							0
4	0.1985	1.6	0.124	0.1985							0
5	0.2517	2	0.1259	0.2517							0

Calib Flag: Replace

Average RF: 0.129749
RF StdDev: 0.00496077
RF %RSD: 3.823

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.129749



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:29
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

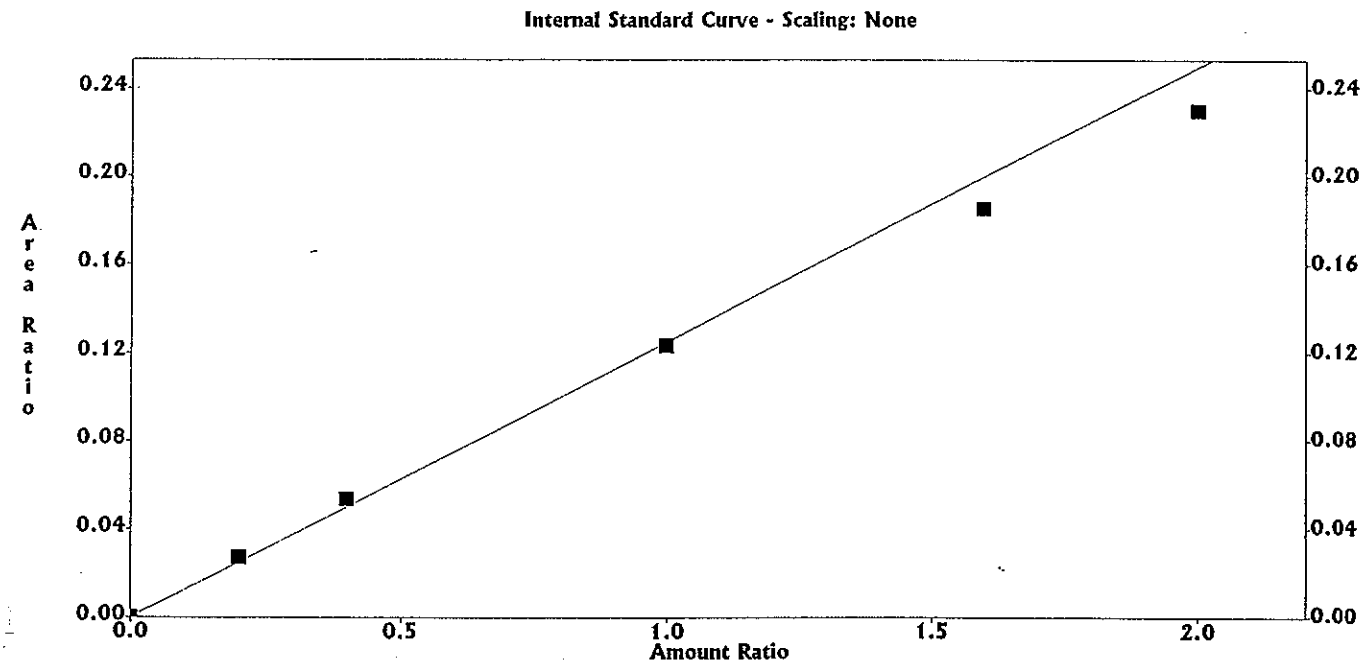
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0273	0.2	0.1364	0.0273							0
2	0.0536	0.4	0.134	0.0536							0
3	0.1236	1	0.1236	0.1236							0
4	0.1858	1.6	0.1161	0.1858							0
5	0.2304	2	0.1152	0.2304							0

Calib Flag: Replace

Average RF: 0.125046
RF StdDev: 0.0098334
RF %RSD: 7.864

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.125046



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 3 4-Nitrophenol

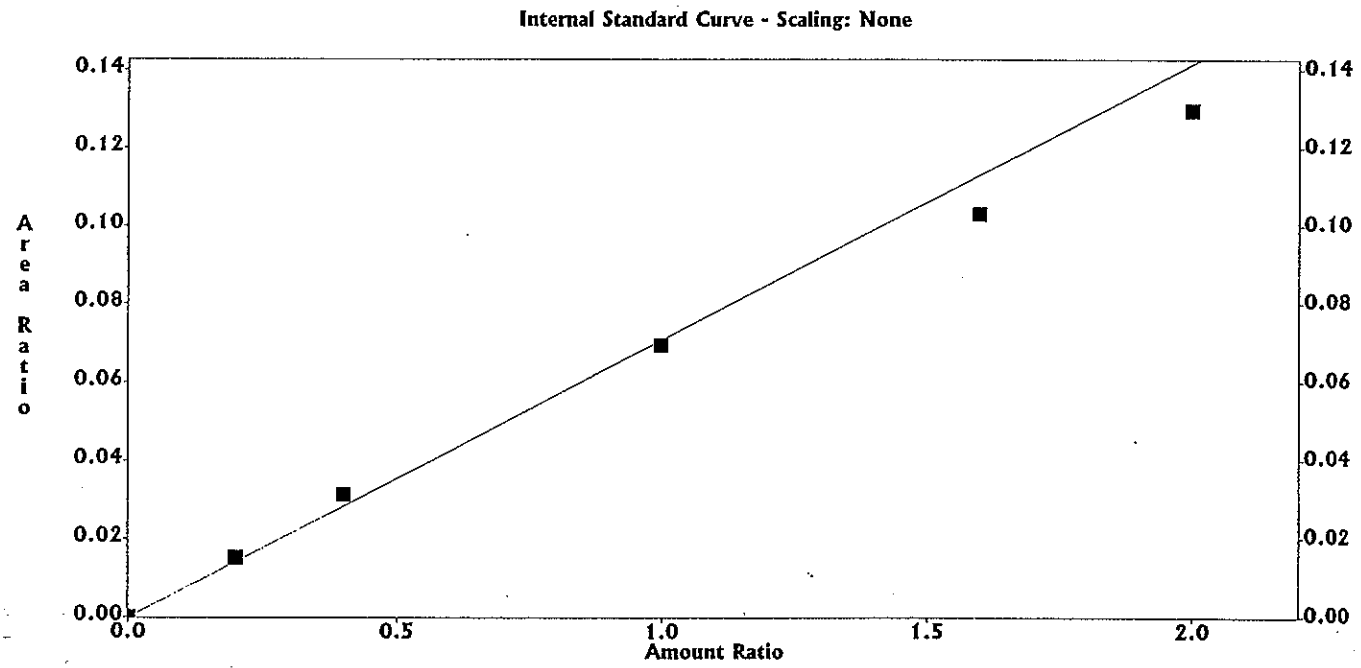
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0153	0.2	0.07642	0.0153							0
2	0.0314	0.4	0.07839	0.0314							0
3	0.0695	1	0.06947	0.0695							0
4	0.1032	1.6	0.06452	0.1032							0
5	0.1297	2	0.06487	0.1297							0

Calib Flag: Replace

Average RF: 0.0707316
RF StdDev: 0.00643509
RF %RSD: 9.098

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0707316



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:30
Channel : A
Peak : 4 DCAA(Surr)

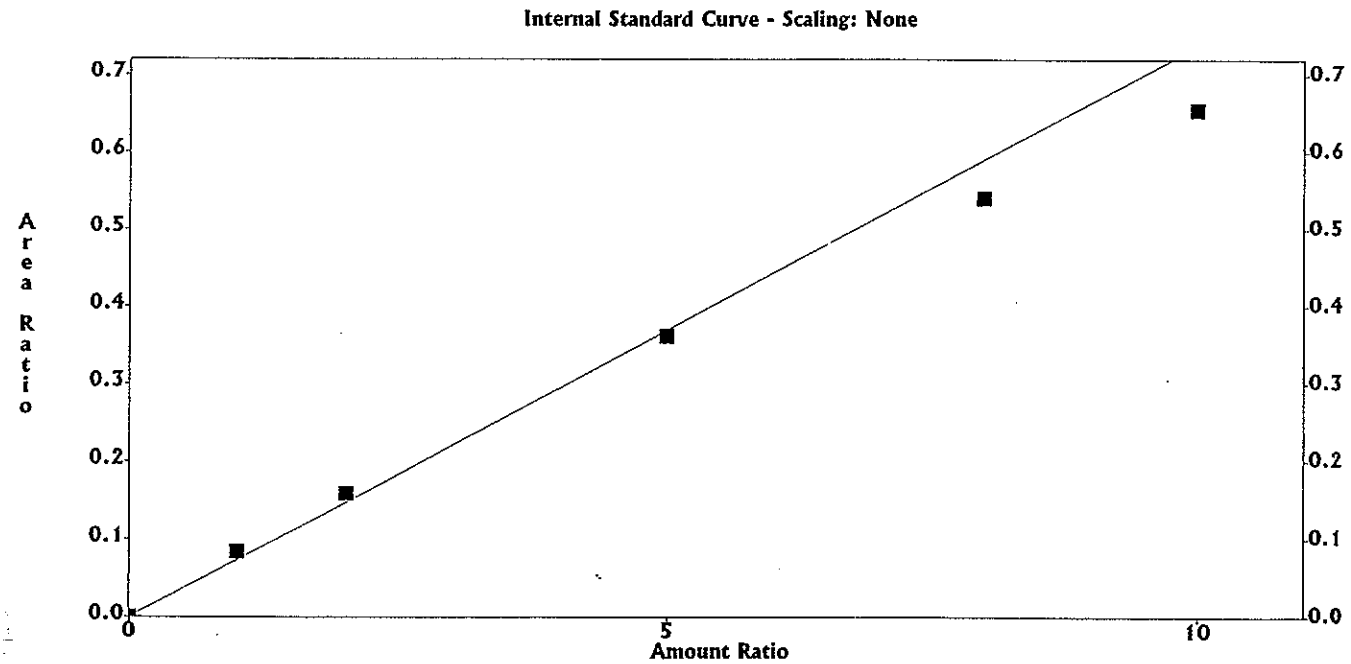
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0843	1	0.08426	0.0843							0
2	0.1594	2	0.07968	0.1594							0
3	0.3617	5	0.07235	0.3617							0
4	0.5408	8	0.06759	0.5408							0
5	0.6554	10	0.06554	0.6554							0

Calib Flag: Replace

Average RF: 0.0738852
RF StdDev: 0.0079487
RF %RSD: 10.758

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0738852



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 5 Dicamba

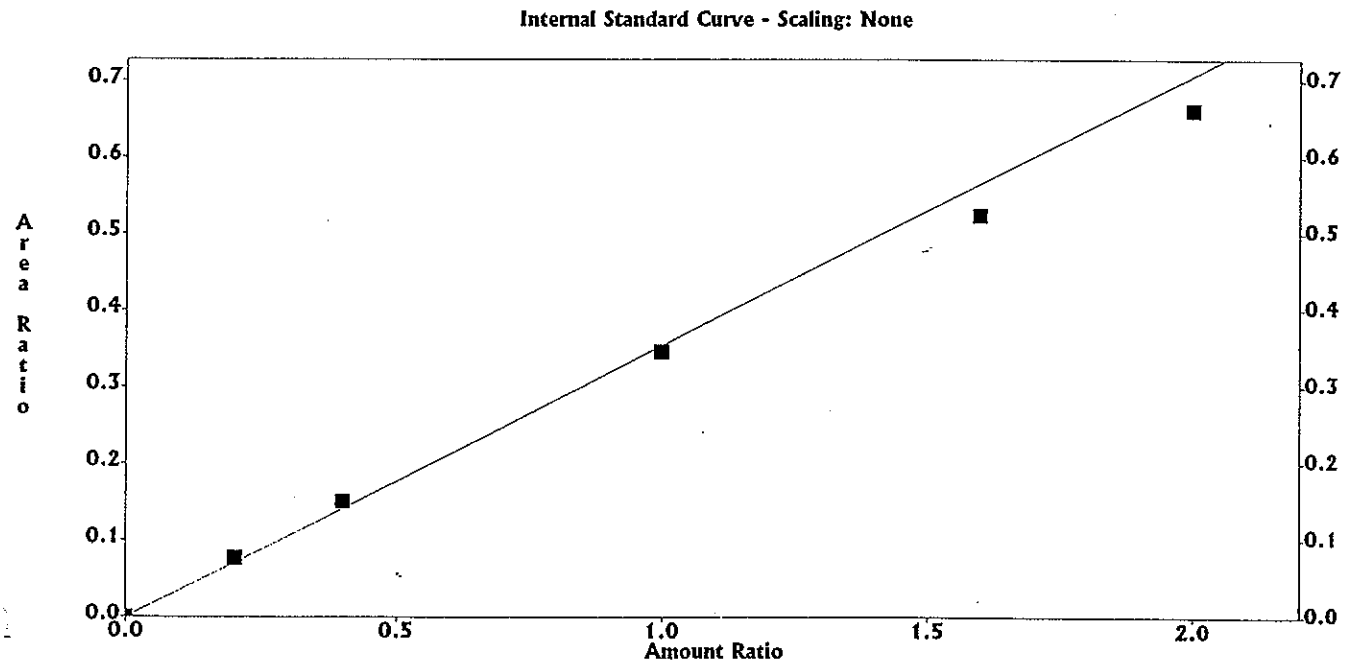
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0773	0.2	0.3866	0.0773							0
2	0.1507	0.4	0.3767	0.1507							0
3	0.3455	1	0.3455	0.3455							0
4	0.5239	1.6	0.3275	0.5239							0
5	0.6620	2	0.331	0.6620							0

Calib Flag: Replace

Average RF: 0.353447
RF StdDev: 0.0268465
RF %RSD: 7.596

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.353447



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:31
Channel : A
Peak : 6 MCPP(ppm)

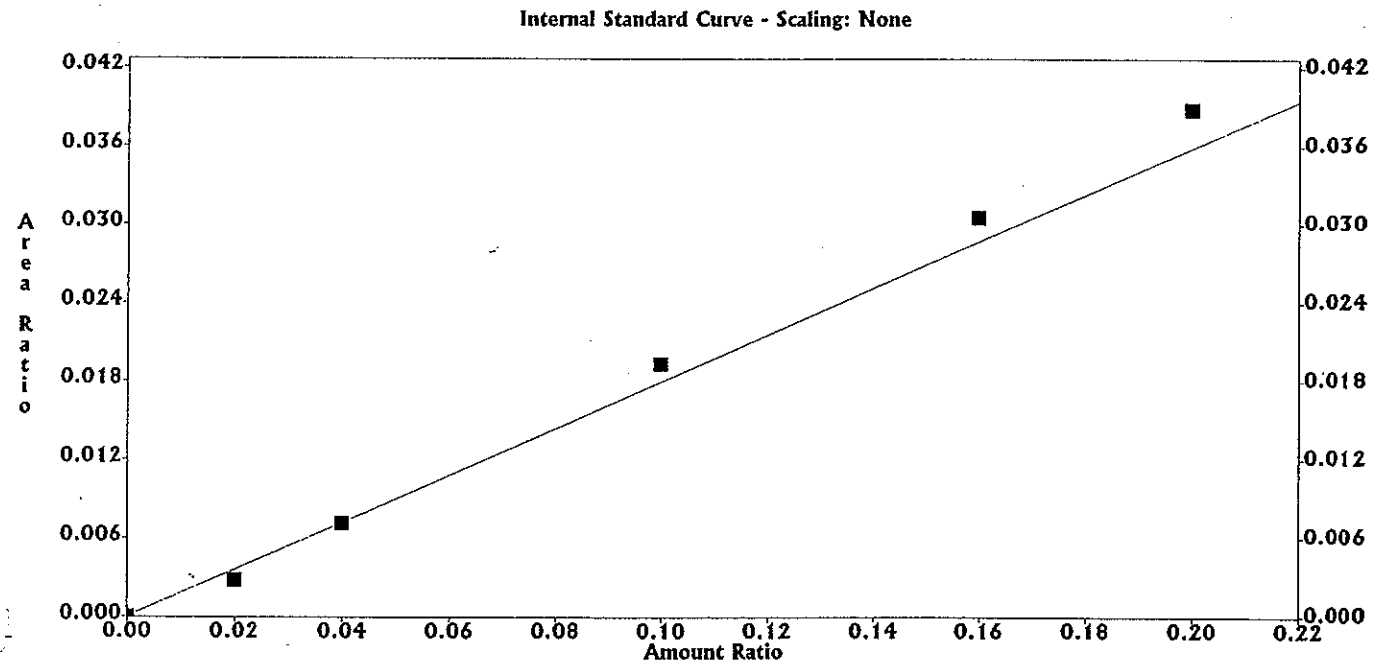
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0028	0.02	0.14	0.0028							0
2	0.0071	0.04	0.1782	0.0071							0
3	0.0193	0.1	0.1933	0.0193							0
4	0.0305	0.16	0.1908	0.0305							0
5	0.0388	0.2	0.194	0.0388							0

Calib Flag: Replace

Average RF: 0.179235
RF StdDev: 0.0228742
RF %RSD: 12.762

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.179235



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 7 MCPA(PPm)

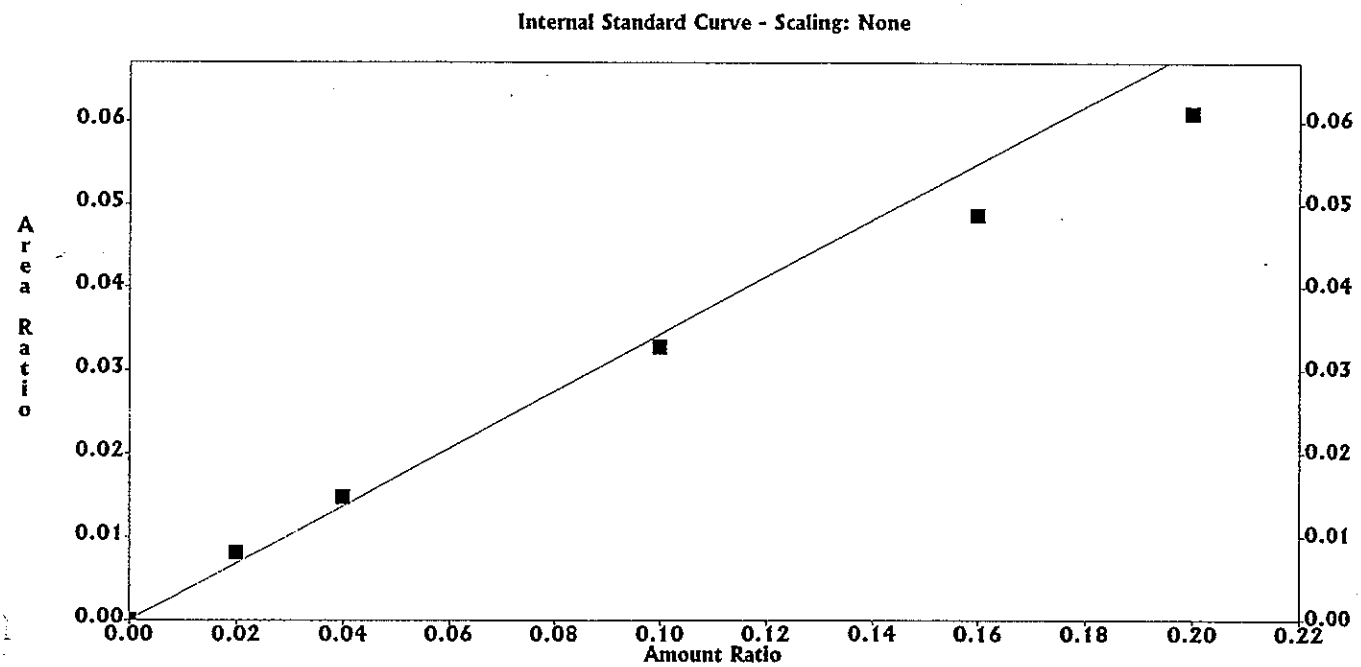
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0082	0.02	0.4079	0.0082							0
2	0.0149	0.04	0.3713	0.0149							0
3	0.0329	0.1	0.3285	0.0329							0
4	0.0487	0.16	0.3047	0.0487							0
5	0.0611	0.2	0.3054	0.0611							0

Calib Flag: Replace

Average RF: 0.343572
RF StdDev: 0.0450119
RF %RSD: 13.101

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.343572



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 8 Dichloroprop

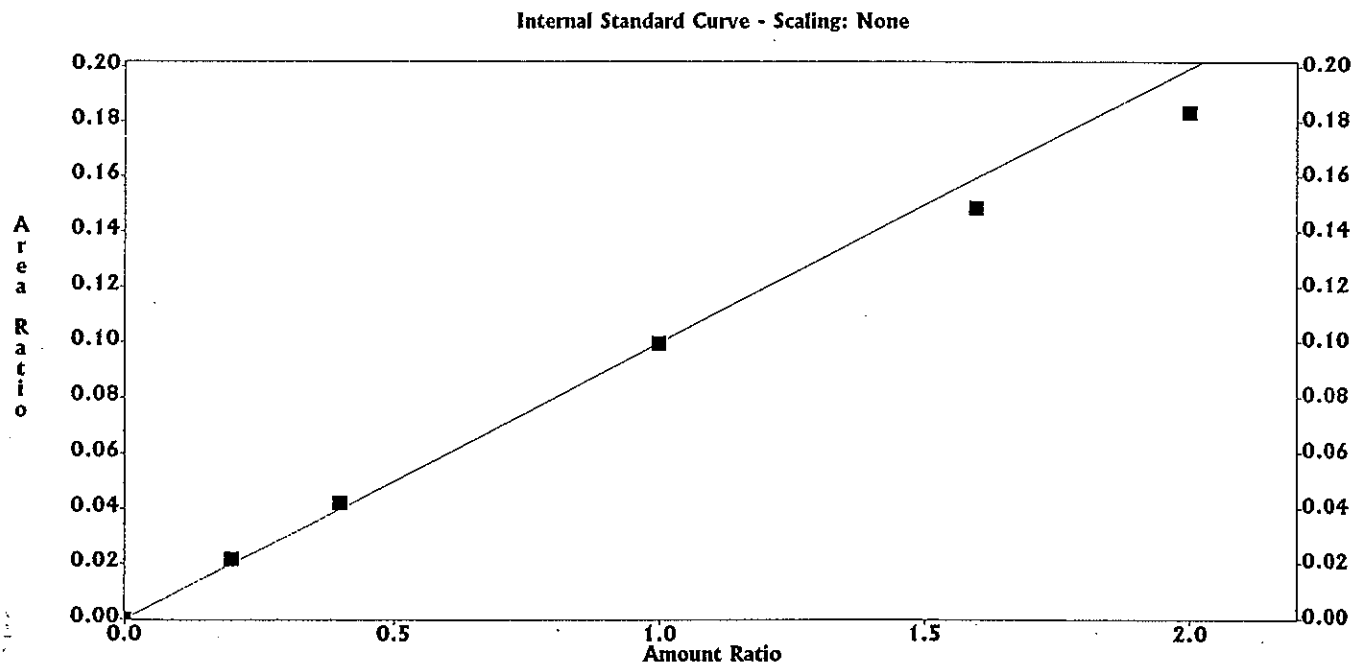
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0218	0.2	0.109	0.0218							0
2	0.0422	0.4	0.1054	0.0422							0
3	0.0996	1	0.09957	0.0996							0
4	0.1485	1.6	0.09284	0.1485							0
5	0.1836	2	0.0918	0.1836							0

Calib Flag: Replace

Average RF: 0.0997123
RF StdDev: 0.00754369
RF %RSD: 7.565

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0997123



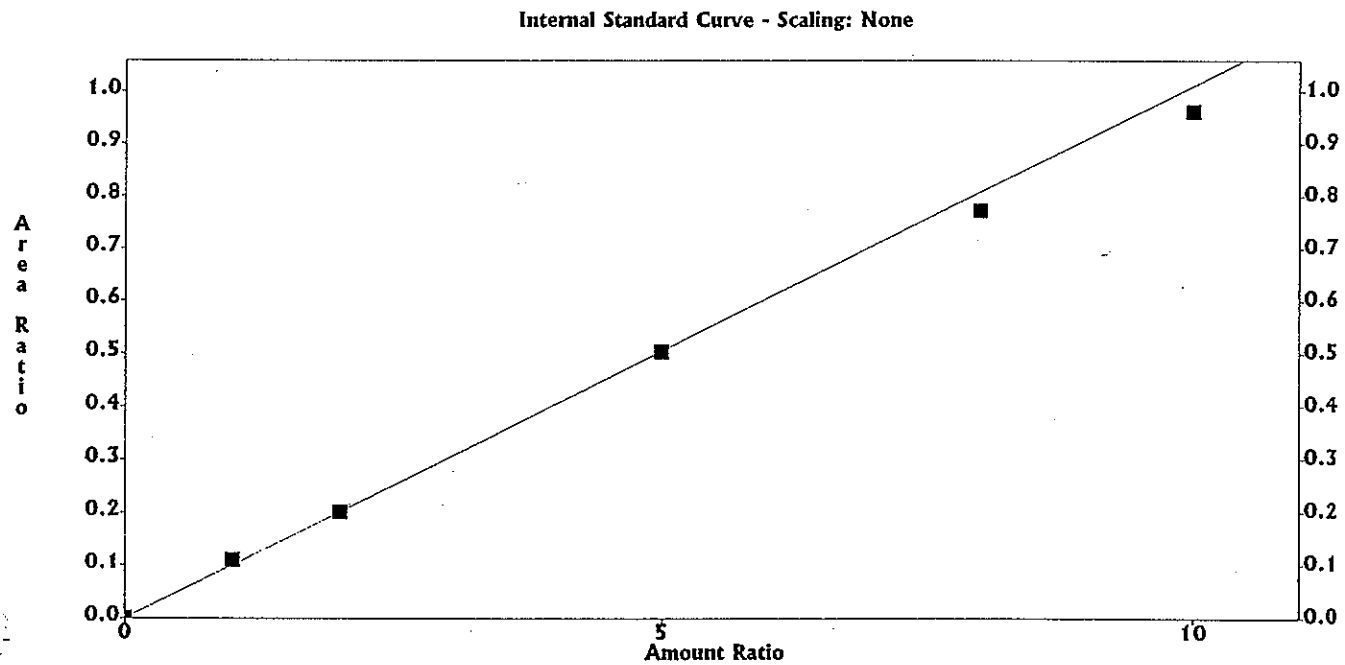
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:32
Channel : A
Peak : 9 2,4-D (m)

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1108	1	0.1108	0.1108							0
2	0.2020	2	0.101	0.2020							0
3	0.5042	5	0.1008	0.5042							0
4	0.7725	8	0.09656	0.7725							0
5	0.9628	10	0.09628	0.9628							0

Calib Flag: Replace

Average RF: 0.101099
RF StdDev: 0.00587927
RF %RSD: 5.815

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.101099



Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 10 DBOB (IS)

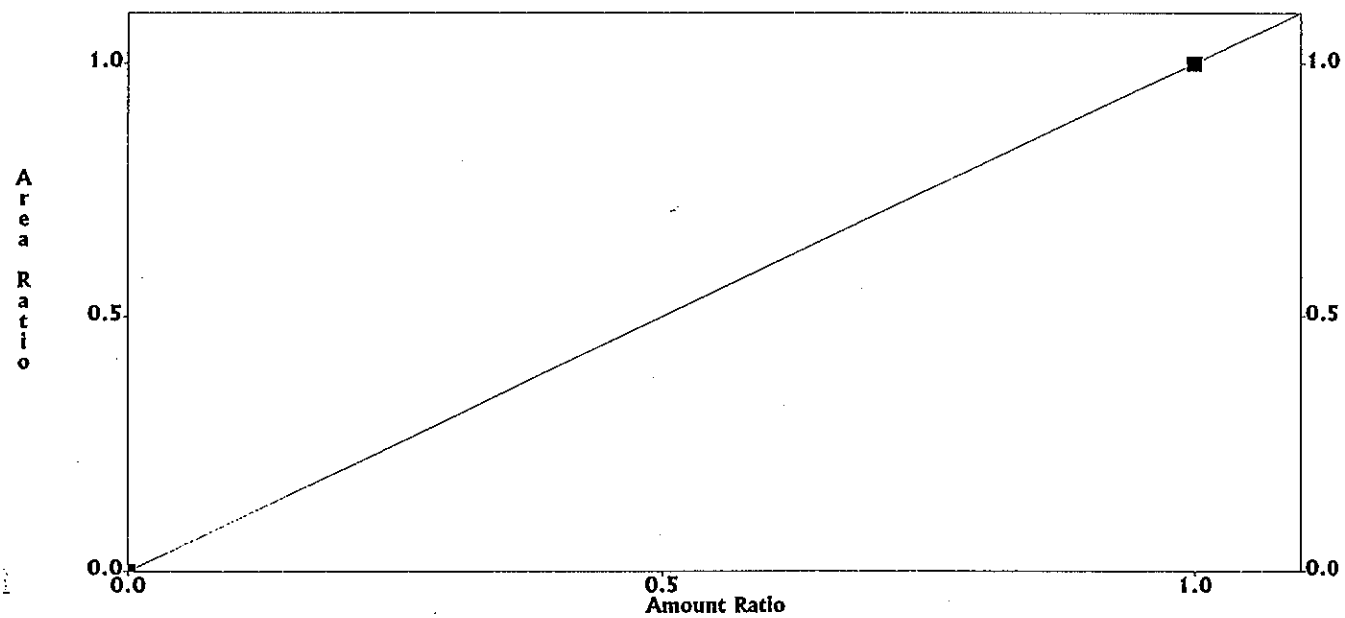
el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:33
Channel : A
Peak : 11 Pentachlorphenol

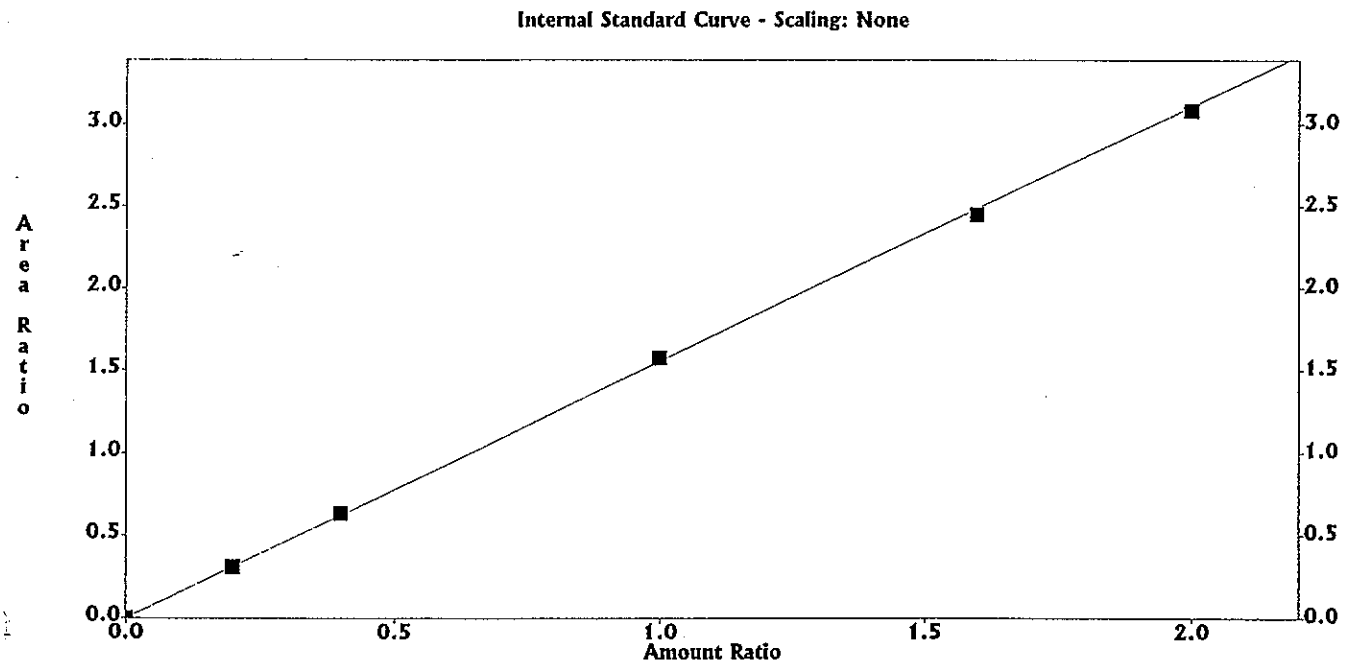
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3088	0.2	1.54	0.3088							0
2	0.6332	0.4	1.58	0.6332							0
3	1.5752	1	1.58	1.5752							0
4	2.4502	1.6	1.53	2.4502							0
5	3.0858	2	1.54	3.0858							0

Calib Flag: Replace

Average RF: 1.55531
RF StdDev: 0.0224793
RF %RSD: 1.445

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.55531



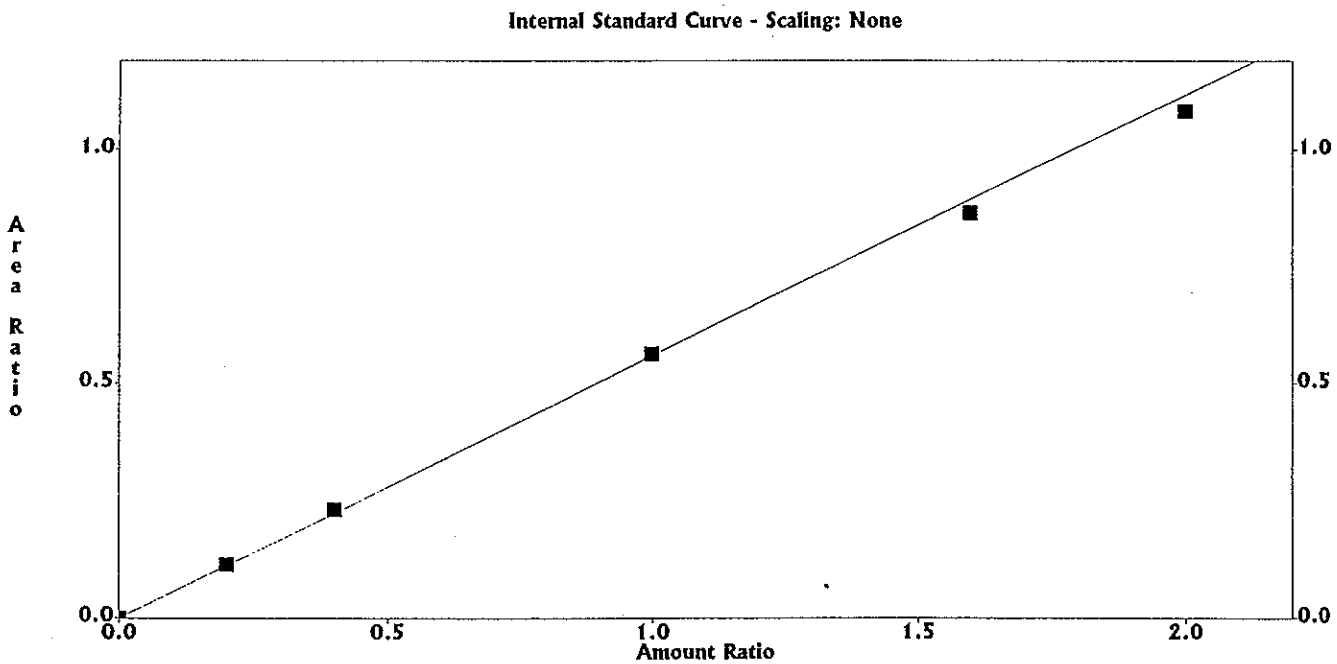
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 12 Silvex (m)

,el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1141	0.2	0.5705	0.1141							0
2	0.2311	0.4	0.5777	0.2311							0
3	0.5630	1	0.563	0.5630							0
4	0.8651	1.6	0.5407	0.8651							0
5	1.0833	2	0.5416	1.0833							0

Calib Flag: Replace

Average RF: 0.55871
RF StdDev: 0.016838
RF %RSD: 3.014

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.55871



Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:34
Channel : A
Peak : 13 Chloramben

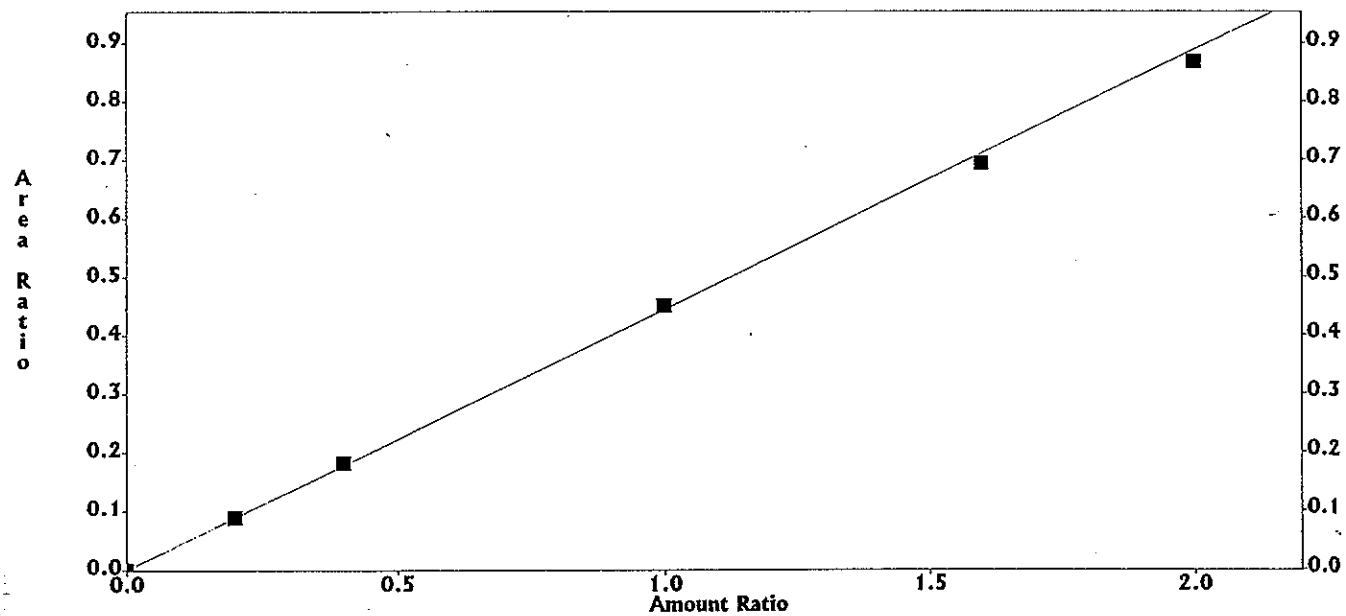
⊥	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0891	0.2	0.4455	0.0891							0
2	0.1827	0.4	0.4568	0.1827							0
3	0.4514	1	0.4514	0.4514							0
4	0.6939	1.6	0.4337	0.6939							0
5	0.8681	2	0.434	0.8681							0

Calib Flag: Replace

Average RF: 0.444269
RF StdDev: 0.0103107
RF %RSD: 2.321

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.444269

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 14 2,4,5-T (m)

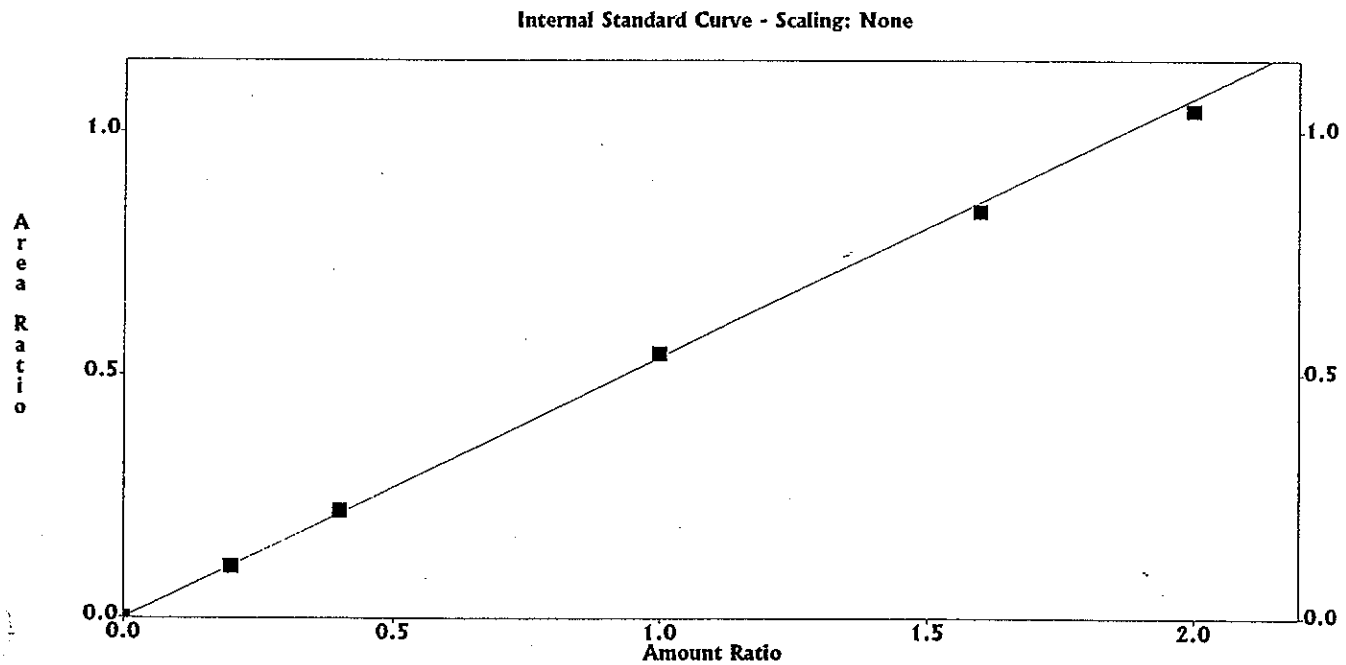
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1070	0.2	0.5352	0.1070							0
2	0.2206	0.4	0.5514	0.2206							0
3	0.5426	1	0.5426	0.5426							0
4	0.8372	1.6	0.5232	0.8372							0
5	1.0448	2	0.5224	1.0448							0

Calib Flag: Replace

Average RF: 0.534963
RF StdDev: 0.0124948
RF %RSD: 2.336

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.534963



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 15 Dinoseb

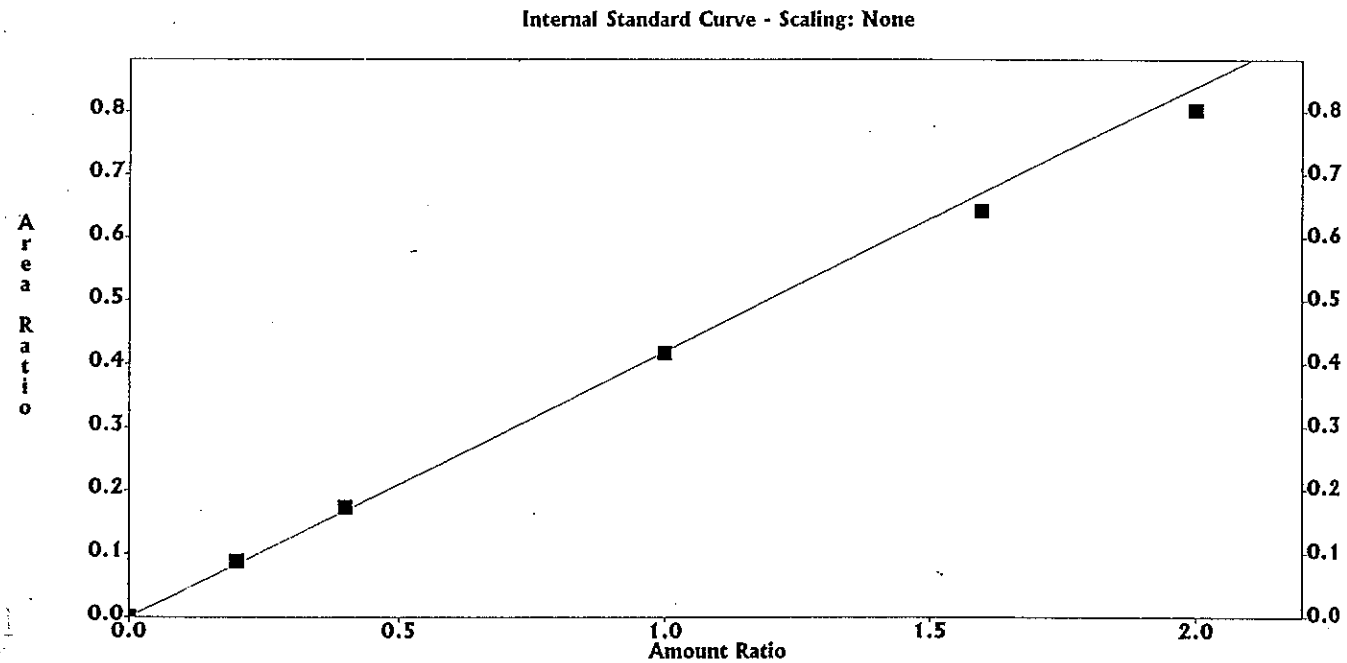
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0886	0.2	0.443	0.0886							0
2	0.1736	0.4	0.4341	0.1736							0
3	0.4173	1	0.4173	0.4173							0
4	0.6426	1.6	0.4016	0.6426							0
5	0.8032	2	0.4016	0.8032							0

Calib Flag: Replace

Average RF: 0.419514
RF StdDev: 0.018767
RF %RSD: 4.474

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.419514



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:35
Channel : A
Peak : 16 2,4-DB

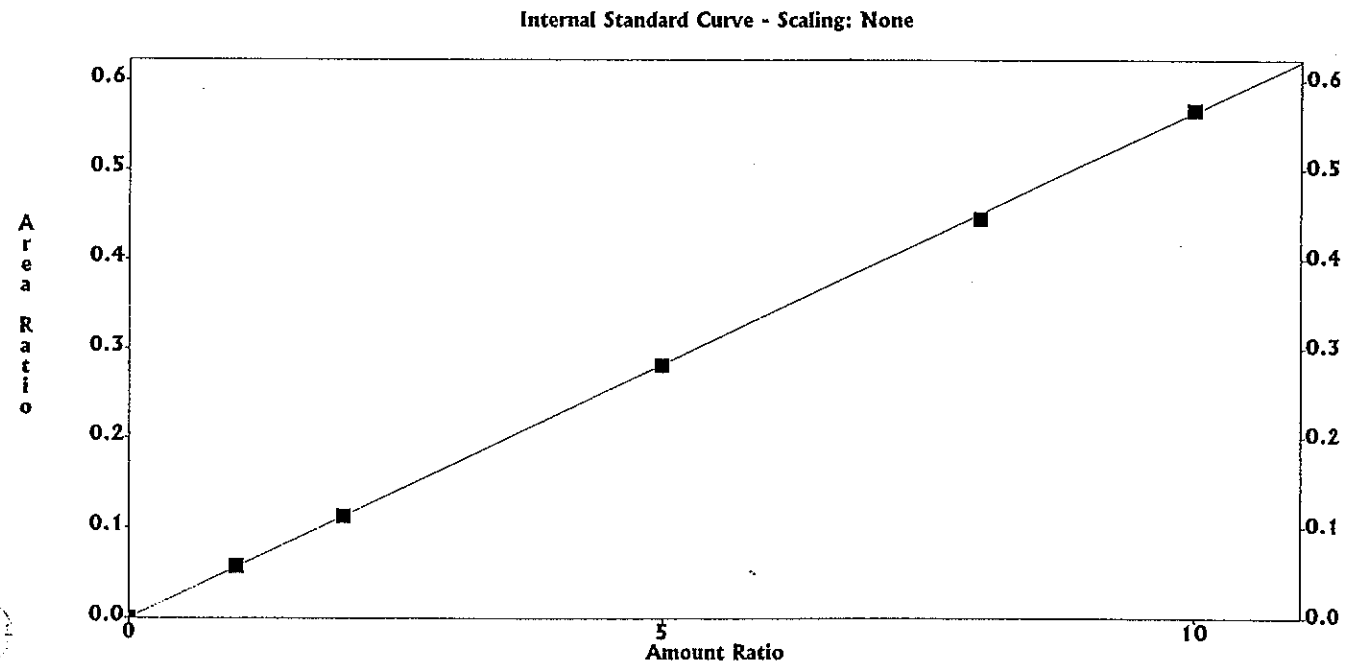
* - Replicate Not Used

al	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0573	1	0.05726	0.0573							0
2	0.1127	2	0.05635	0.1127							0
3	0.2812	5	0.05624	0.2812							0
4	0.4457	8	0.05571	0.4457							0
5	0.5670	10	0.0567	0.5670							0

Calib Flag: Replace

Average RF: 0.0564517
RF StdDev: 0.000575168
RF %RSD: 1.019

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0564517



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 17 Bentazon

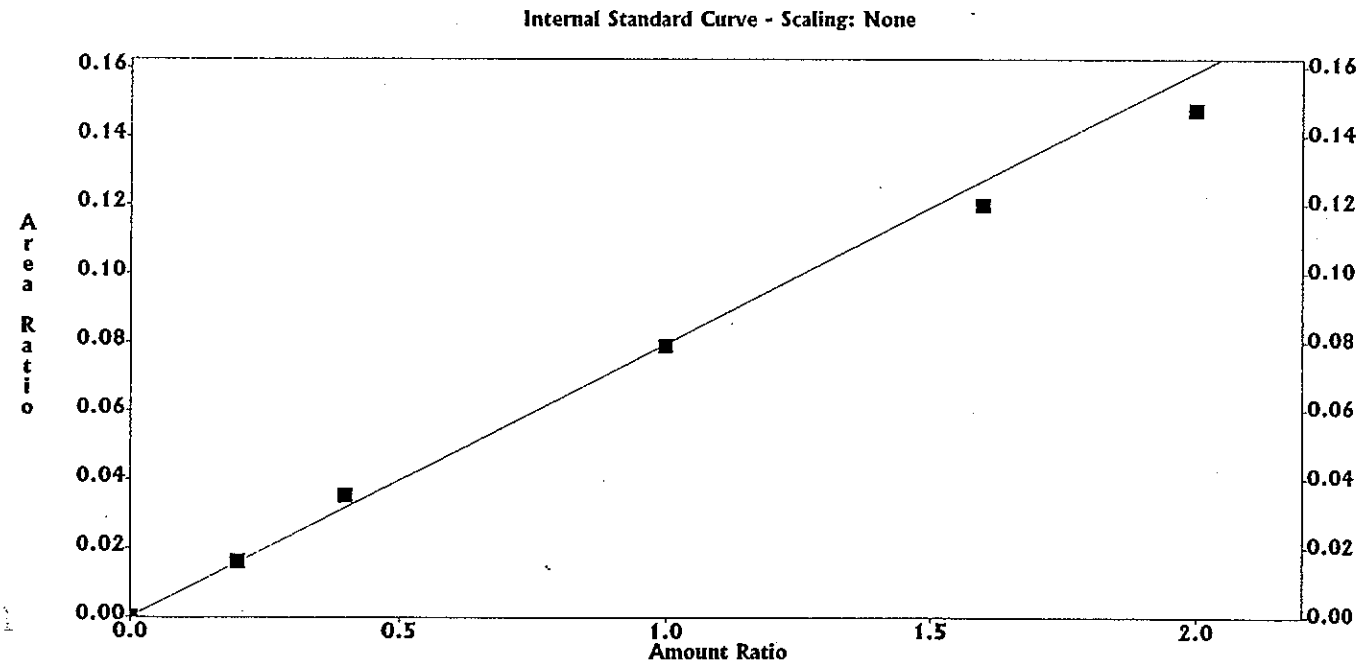
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0162	0.2	0.08079	0.0162							0
2	0.0354	0.4	0.08842	0.0354							0
3	0.0789	1	0.07893	0.0789							0
4	0.1199	1.6	0.07497	0.1199							0
5	0.1477	2	0.07386	0.1477							0

Calib Flag: Replace

Average RF: 0.0793922
RF StdDev: 0.00578699
RF %RSD: 7.289

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0793922



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 18 Picloram

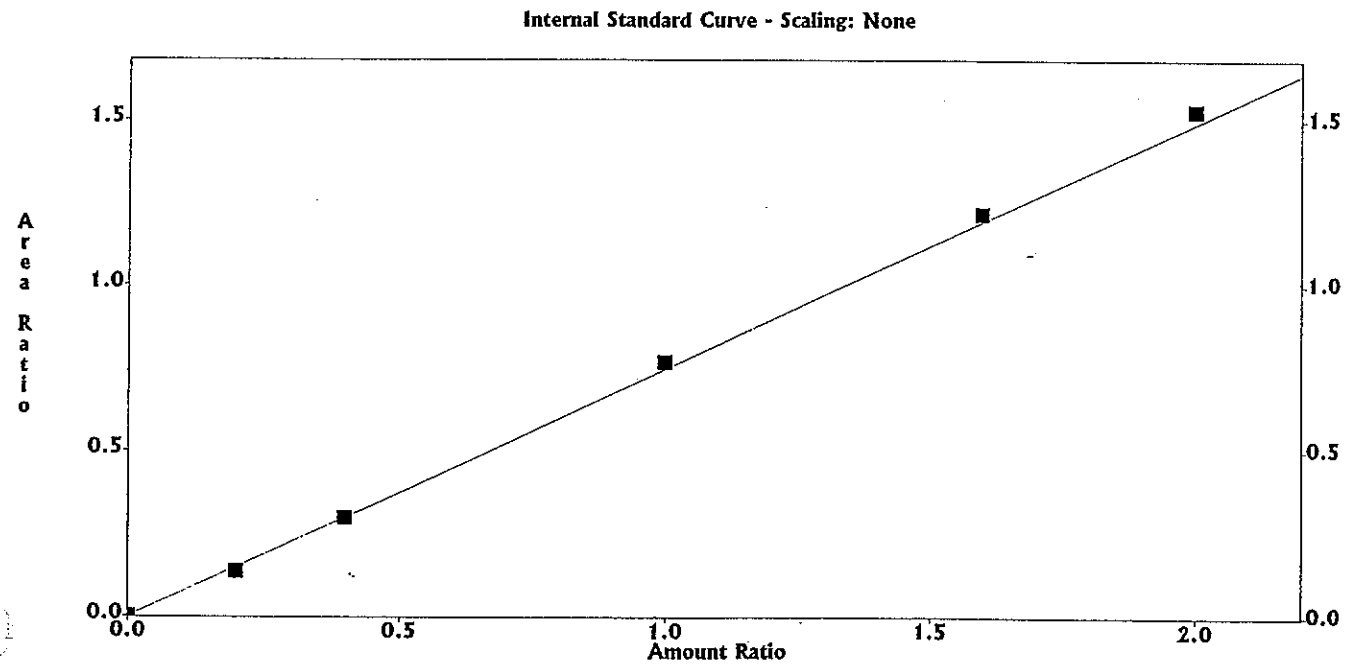
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1373	0.2	0.6865	0.1373							0
2	0.2981	0.4	0.7453	0.2981							0
3	0.7690	1	0.769	0.7690							0
4	1.2179	1.6	0.7612	1.2179							0
5	1.5313	2	0.7656	1.5313							0

Calib Flag: Replace

Average RF: 0.745522
RF StdDev: 0.0342195
RF %RSD: 4.590

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.745522



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:36
Channel : A
Peak : 19 DCPA

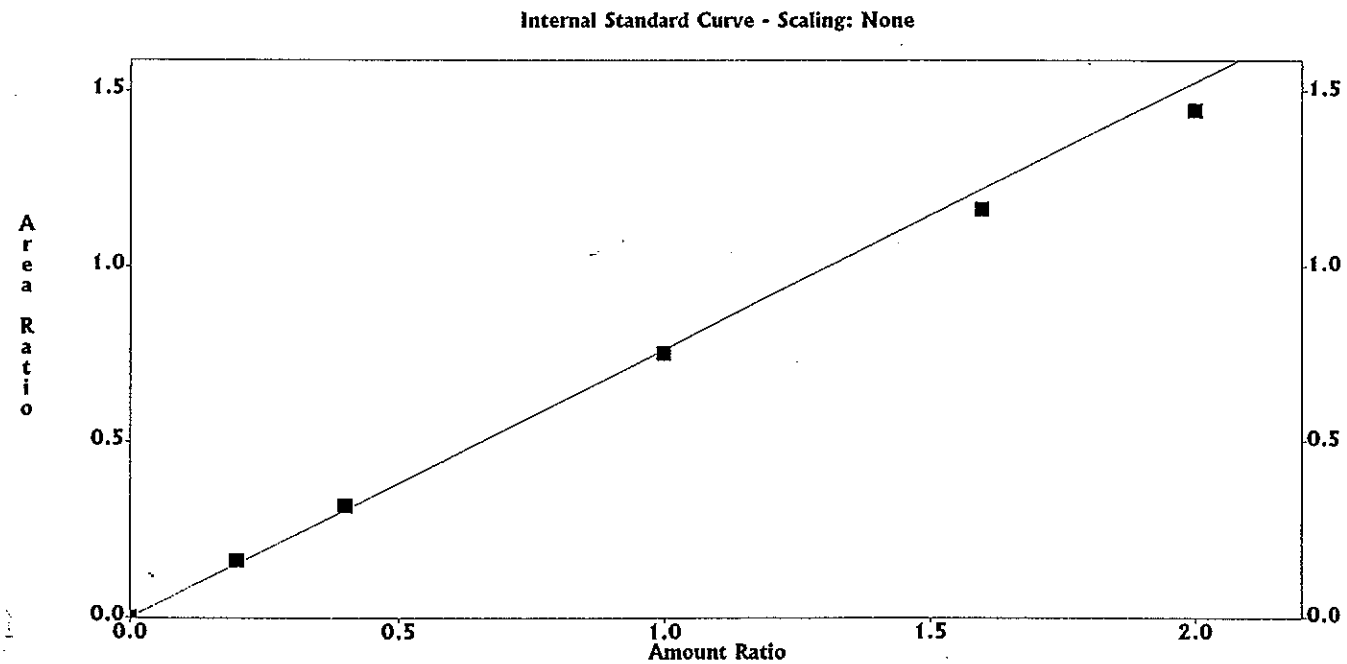
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1631	0.2	0.8156	0.1631							0
2	0.3183	0.4	0.7957	0.3183							0
3	0.7539	1	0.7539	0.7539							0
4	1.1638	1.6	0.7274	1.1638							0
5	1.4456	2	0.7228	1.4456							0

Calib Flag: Replace

Average RF: 0.763057
RF StdDev: 0.0412422
RF %RSD: 5.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.763057



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:37
Channel : A
Peak : 20 Acifluorfen

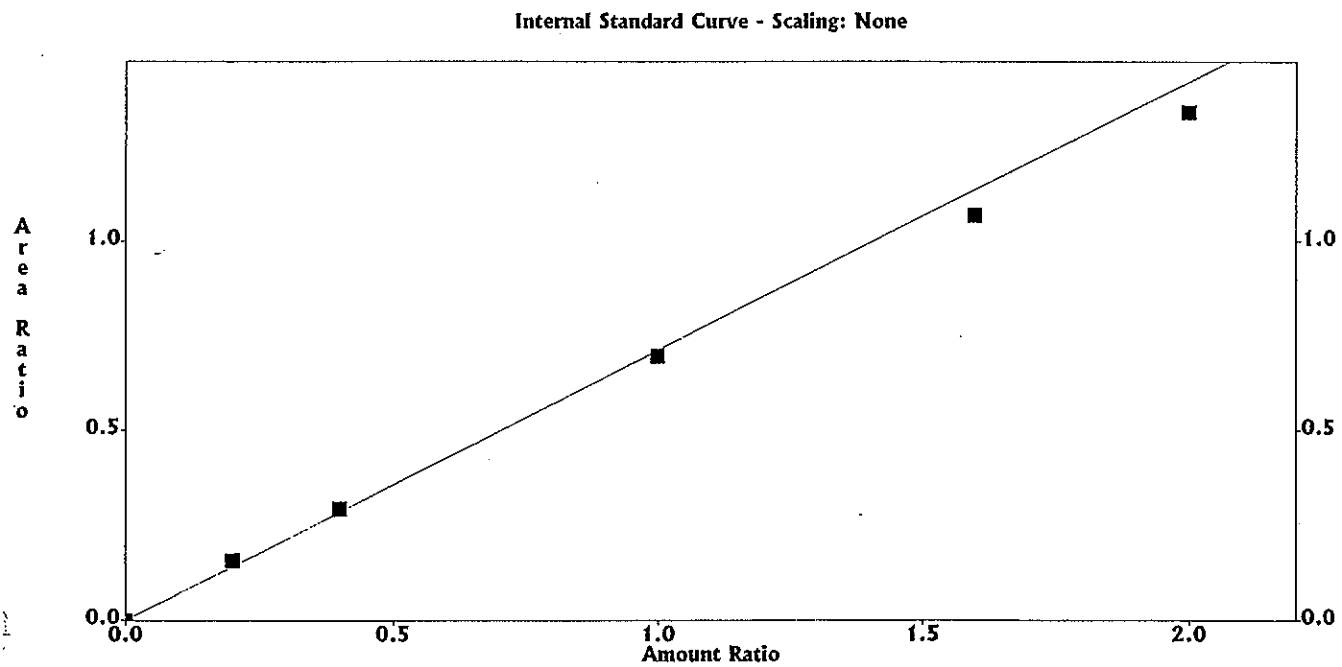
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1579	0.2	0.7895	0.1579							0
2	0.2921	0.4	0.7303	0.2921							0
3	0.6957	1	0.6957	0.6957							0
4	1.0683	1.6	0.6677	1.0683							0
5	1.3422	2	0.6711	1.3422							0

Calib Flag: Replace

Average RF: 0.710861
RF StdDev: 0.0506144
RF %RSD: 7.120

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.710861



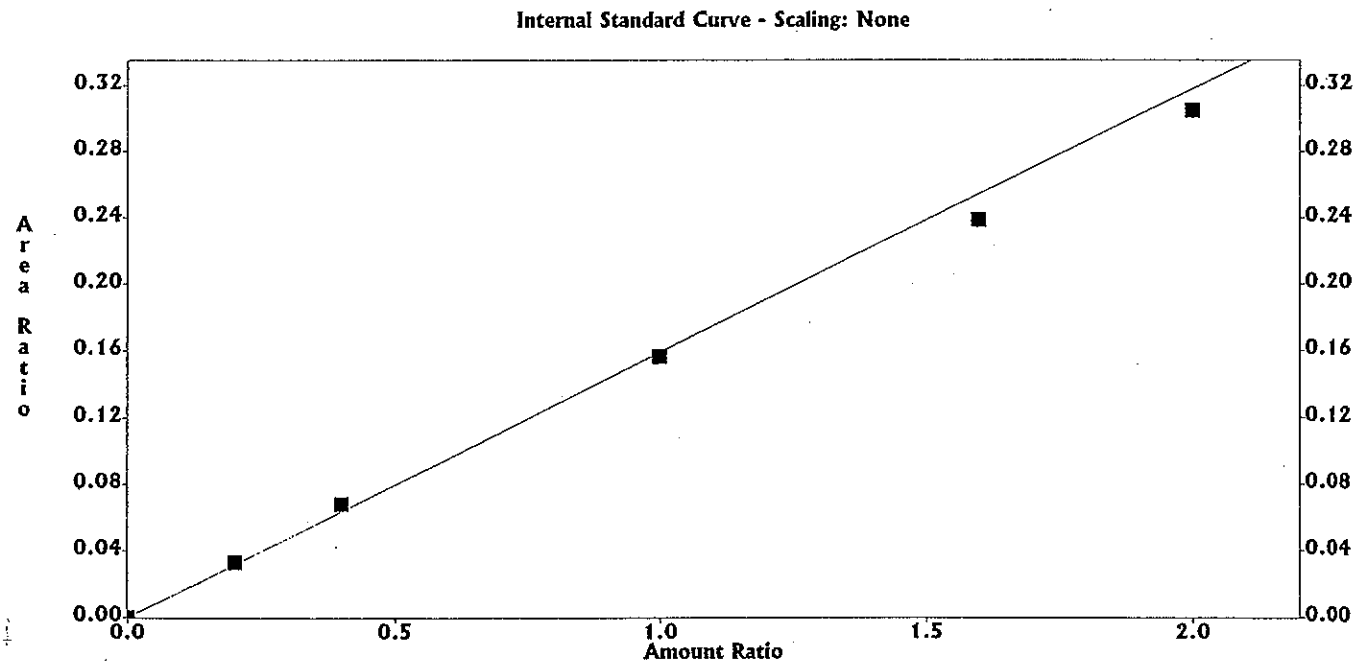
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 1 Dalapon

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0332	0.2	0.1659	0.0332							0
2	0.0683	0.4	0.1707	0.0683							0
3	0.1569	1	0.1569	0.1569							0
4	0.2390	1.6	0.1494	0.2390							0
5	0.3051	2	0.1525	0.3051							0

Calib Flag: Replace

Average RF: 0.159073
RF StdDev: 0.00900517
RF %RSD: 5.661

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.159073



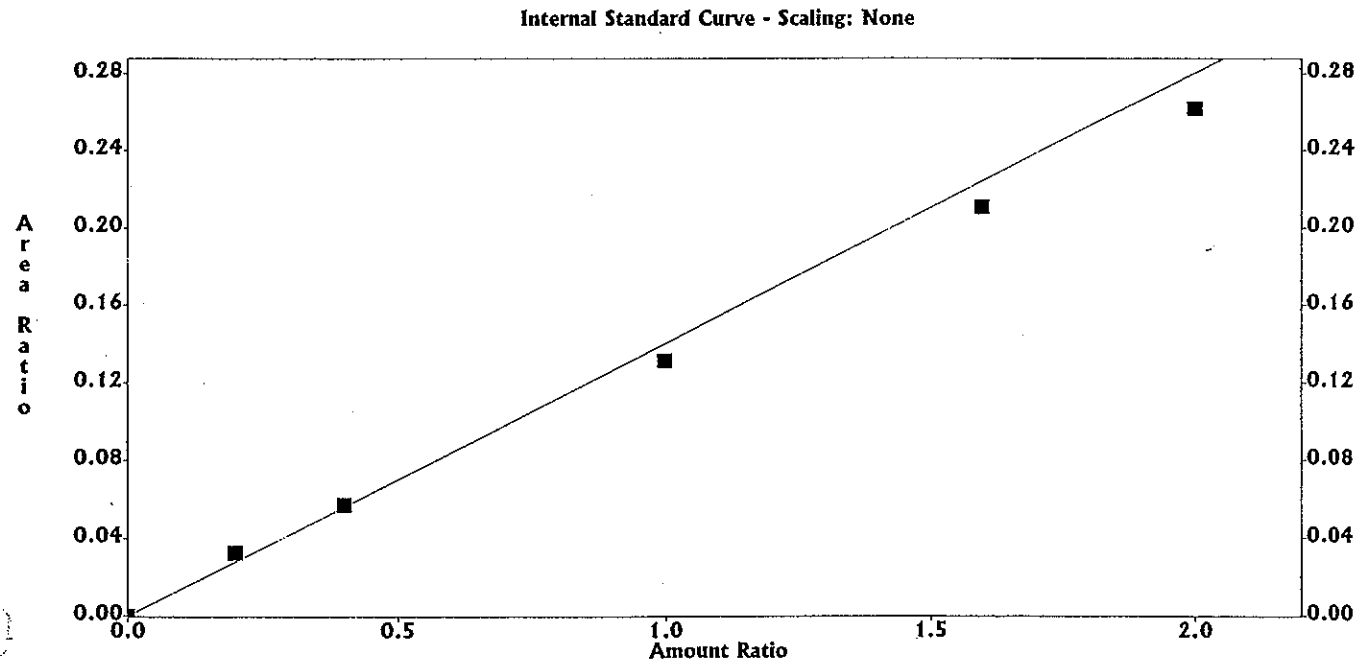
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0328	0.2	0.1638	0.0328							0
2	0.0571	0.4	0.1428	0.0571							0
3	0.1316	1	0.1316	0.1316							0
4	0.2108	1.6	0.1317	0.2108							0
5	0.2617	2	0.1309	0.2617							0

Calib Flag: Replace

Average RF: 0.140157
RF StdDev: 0.0141192
RF %RSD: 10.074

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.140157



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:42
Channel : B
Peak : 3 4-Nitrophenol

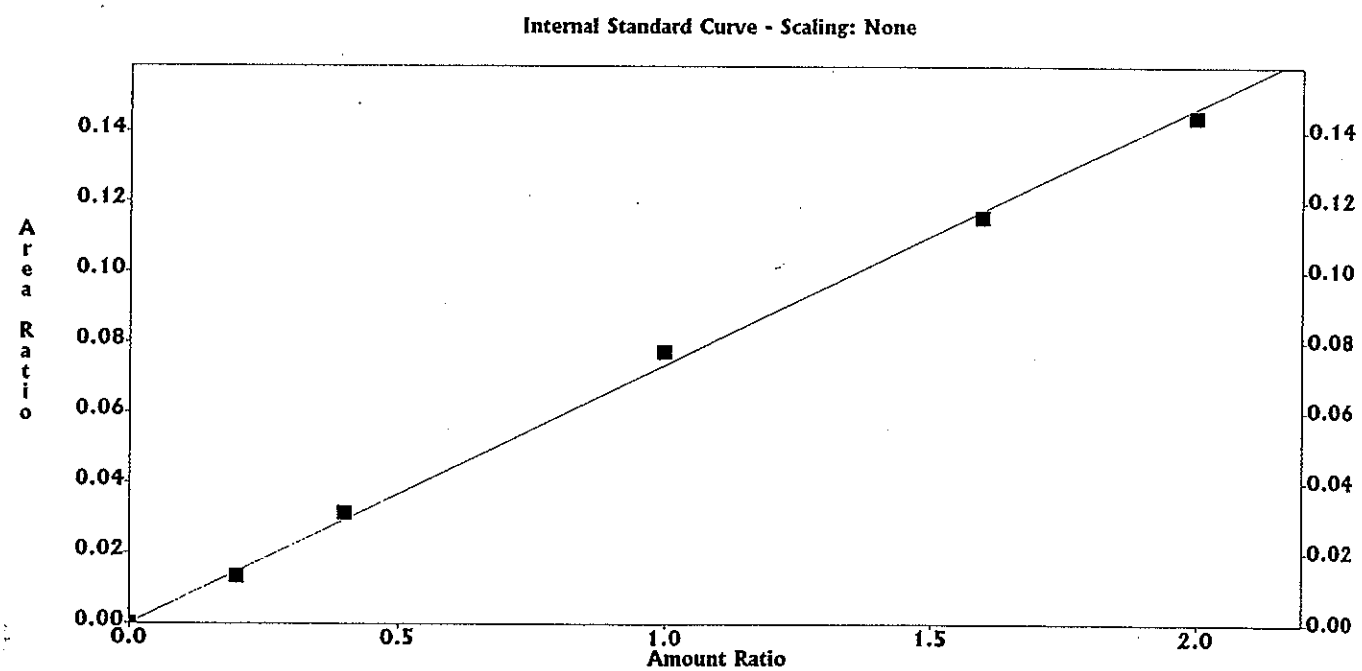
* - Replicate Not Used

#I	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0134	0.2	0.0671	0.0134							0
2	0.0314	0.4	0.07844	0.0314							0
3	0.0773	1	0.07727	0.0773							0
4	0.1156	1.6	0.07227	0.1156							0
5	0.1443	2	0.07216	0.1443							0

Calib Flag: Replace

Average RF: 0.0734475
RF StdDev: 0.0045514
RF %RSD: 6.197

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0734475



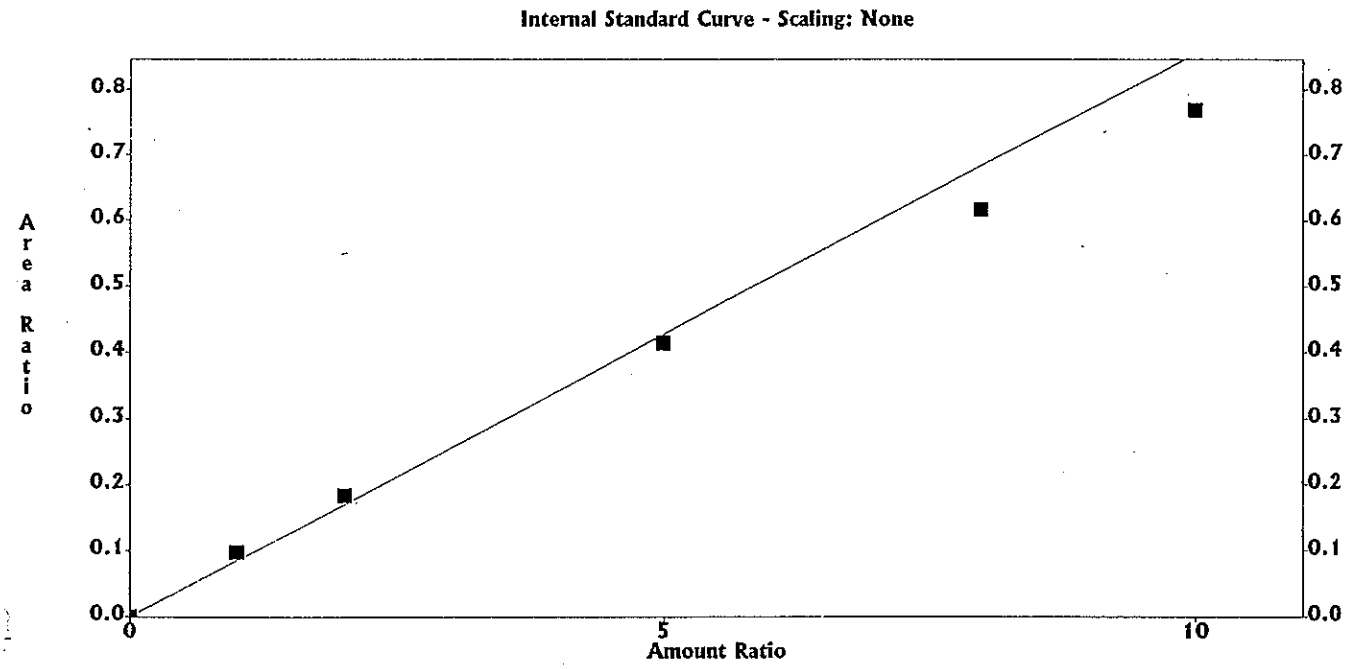
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 4 DCAA (surr)

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0983	1	0.09832	0.0983							0
2	0.1846	2	0.09231	0.1846							0
3	0.4149	5	0.08299	0.4149							0
4	0.6178	8	0.07722	0.6178							0
5	0.7704	10	0.07704	0.7704							0

Calib Flag: Replace

Average RF: 0.0855754
RF StdDev: 0.00944904
RF %RSD: 11.042

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0855754



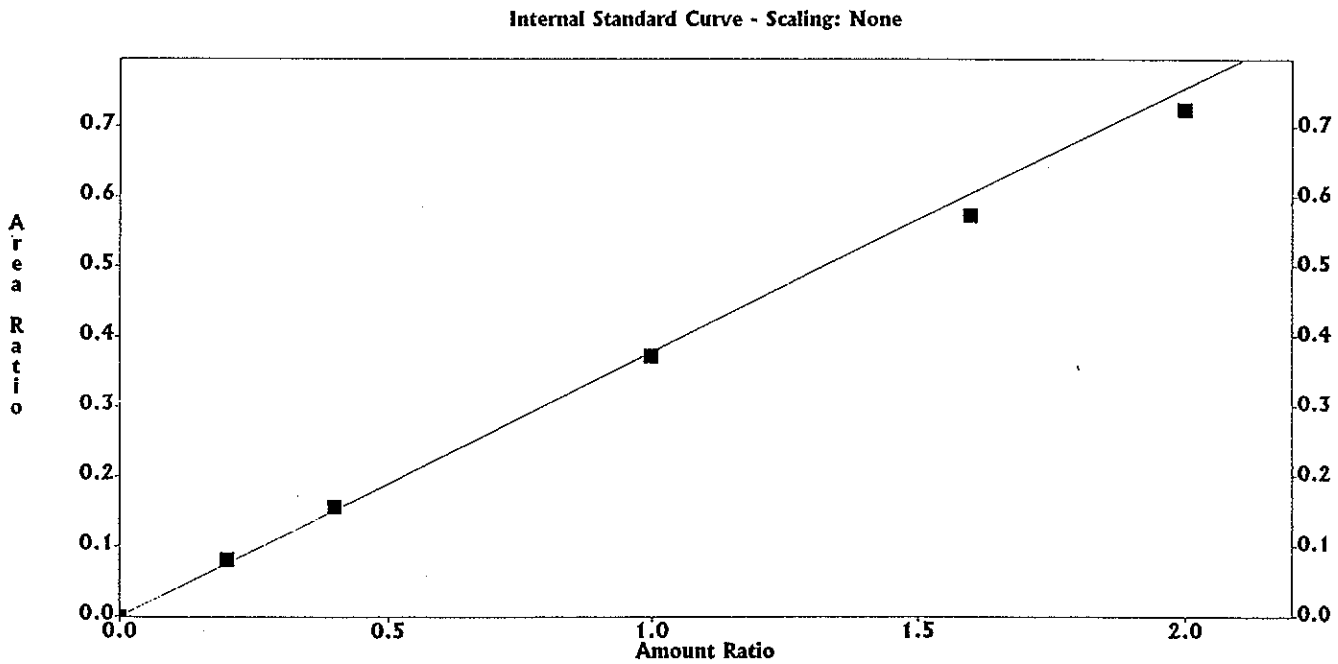
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:43
Channel : B
Peak : 5 Dicamba

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0809	0.2	0.4047	0.0809							0
2	0.1564	0.4	0.3911	0.1564							0
3	0.3723	1	0.3723	0.3723							0
4	0.5733	1.6	0.3583	0.5733							0
5	0.7254	2	0.3627	0.7254							0

Calib Flag: Replace

Average RF: 0.37782
RF StdDev: 0.0196009
RF %RSD: 5.188

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.37782



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 6 MCPP (ppm)

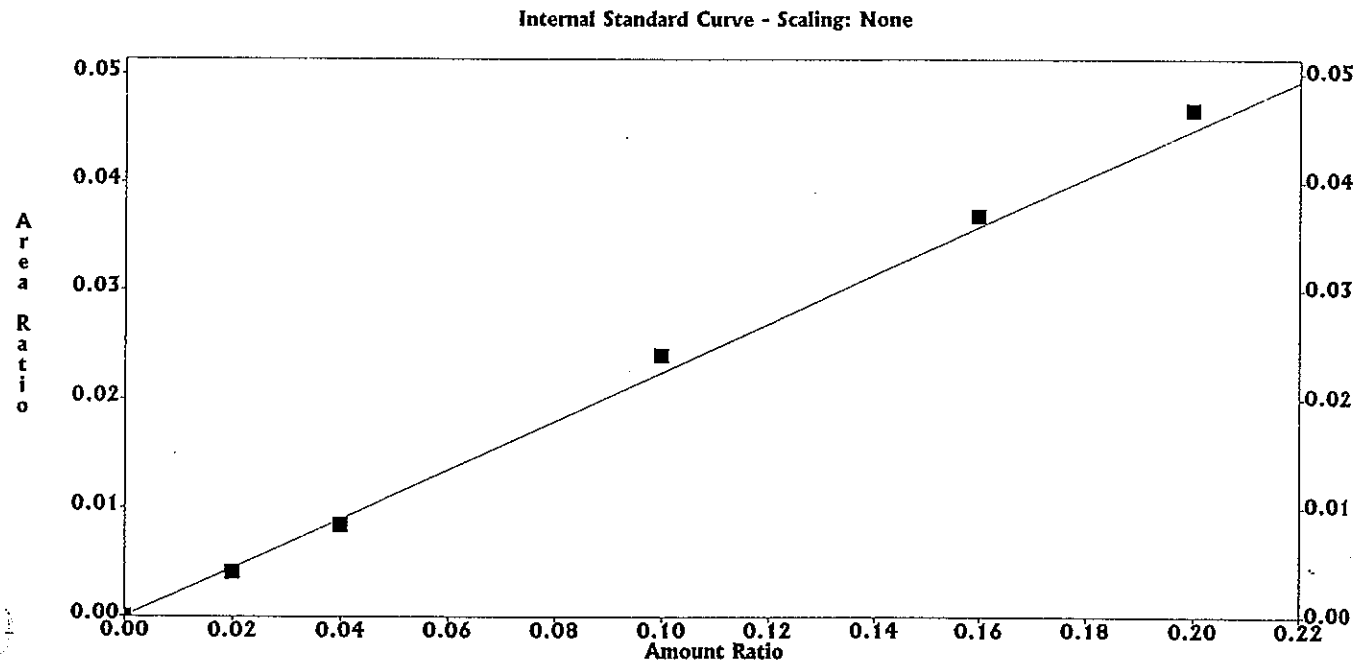
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	0.02	0.2051	0.0041							0
2	0.0085	0.04	0.2113	0.0085							0
3	0.0240	0.1	0.2405	0.0240							0
4	0.0369	0.16	0.2306	0.0369							0
5	0.0467	0.2	0.2336	0.0467							0

Calib Flag: Replace

Average RF: 0.22421
RF StdDev: 0.0152017
RF %RSD: 6.780

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.22421



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 7 DBOB (IS)

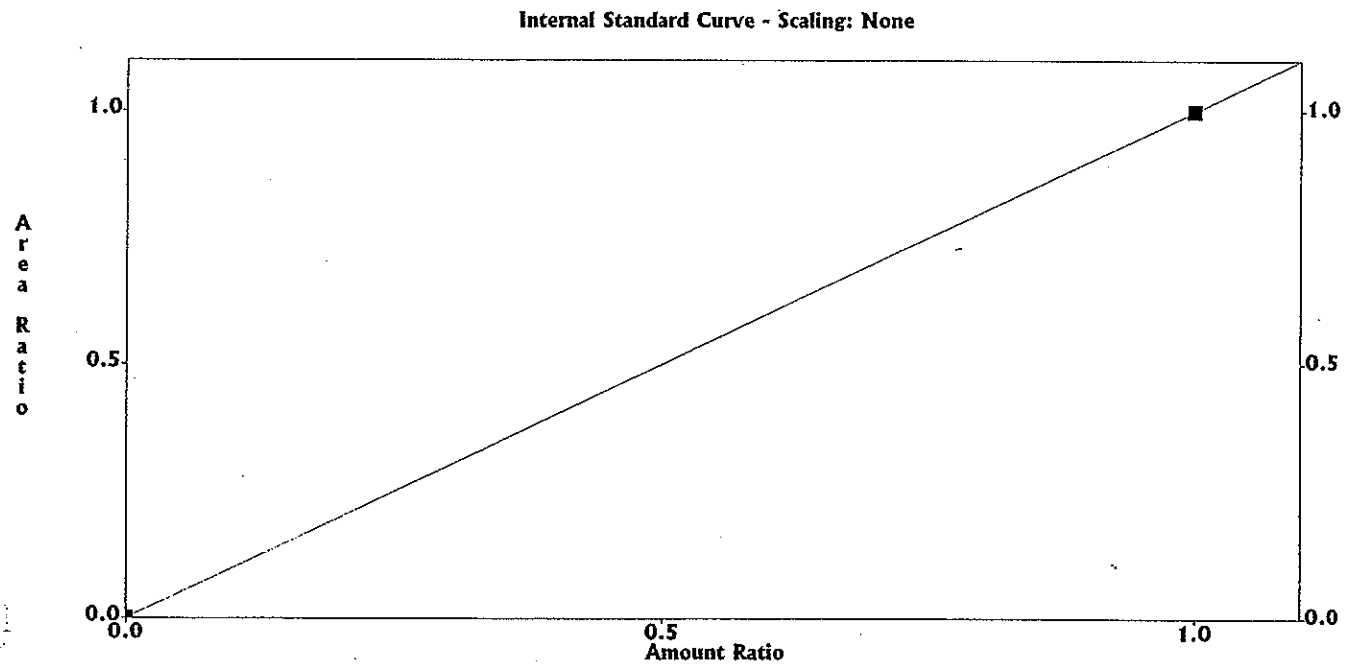
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:44
Channel : B
Peak : 8 MCPA (ppm)

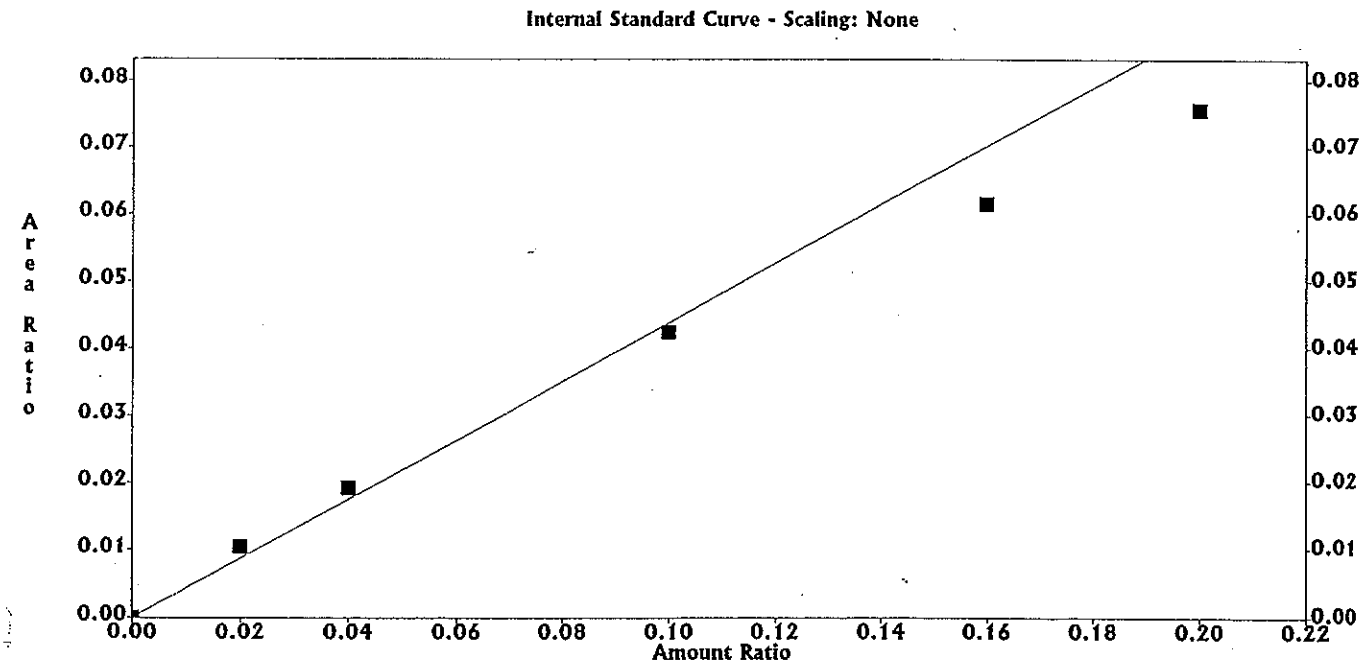
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	OId Area Ratio
1	0.0105	0.02	0.5256	0.0105							0
2	0.0192	0.04	0.4812	0.0192							0
3	0.0425	0.1	0.4247	0.0425							0
4	0.0615	0.16	0.3845	0.0615							0
5	0.0757	0.2	0.3786	0.0757							0

Calib Flag: Replace

Average RF: 0.438923
RF StdDev: 0.0634385
RF %RSD: 14.453

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.438923



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 9 Dichloroprop

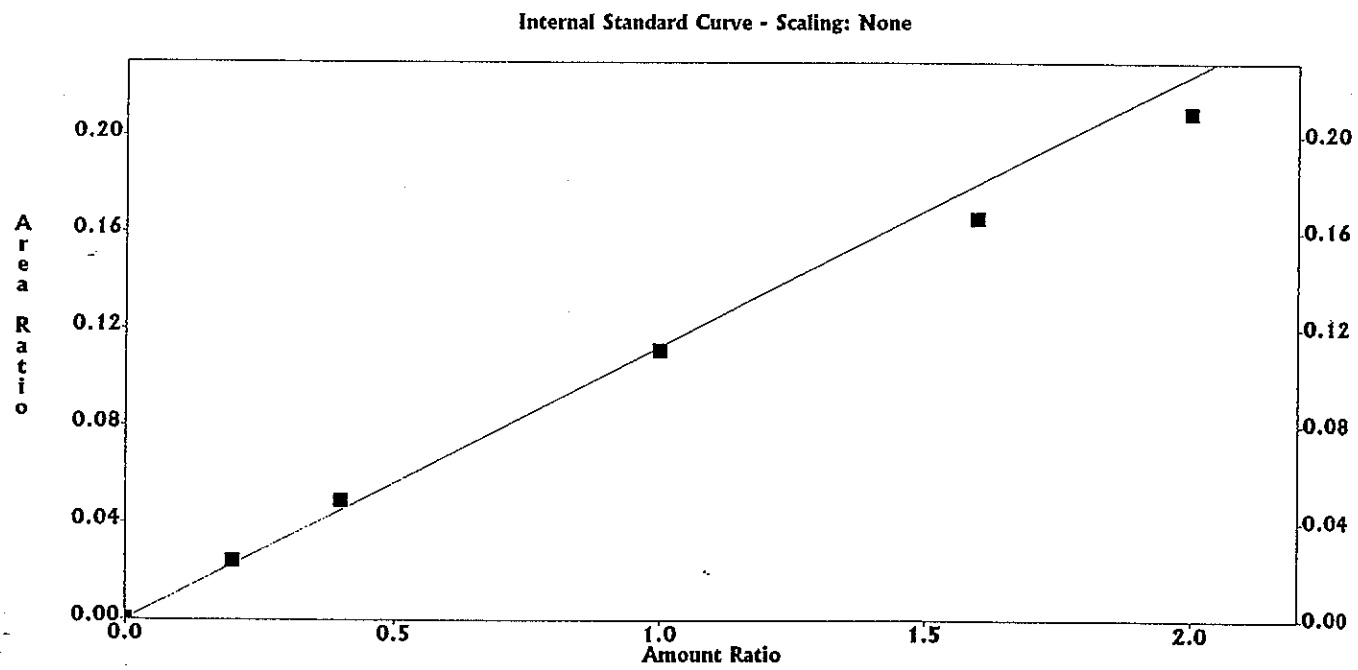
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0241	0.2	0.1206	0.0241							0
2	0.0492	0.4	0.123	0.0492							0
3	0.1111	1	0.1111	0.1111							0
4	0.1658	1.6	0.1036	0.1658							0
5	0.2097	2	0.1048	0.2097							0

Calib Flag: Replace

Average RF: 0.112632
RF StdDev: 0.00887648
RF %RSD: 7.881

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.112632



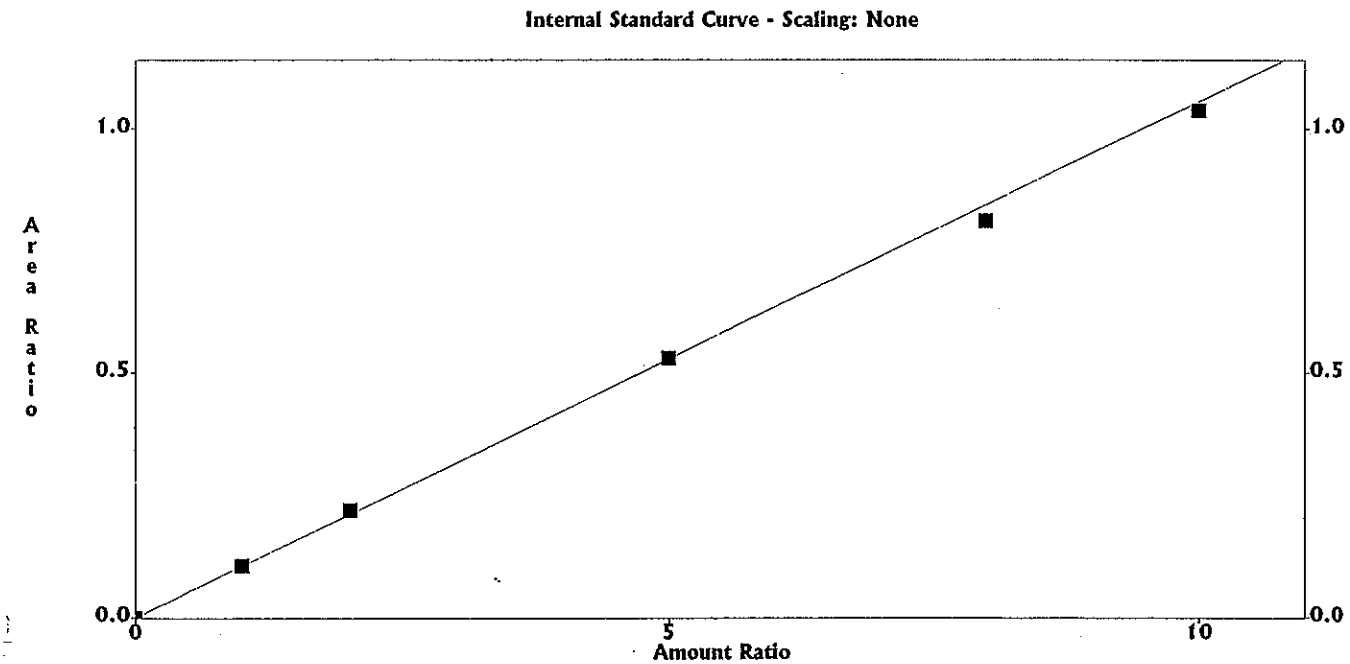
Method : c:\ezchrom\methods\8151-063.t00 * - Replicate Not Used
Printed : Jul 09, 2003 09:55:45
Channel : B
Peak : 10 2,4-D (m)

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1068	1	0.1068	0.1068							0
2	0.2199	2	0.1099	0.2199							0
3	0.5309	5	0.1062	0.5309							0
4	0.8125	8	0.1016	0.8125							0
5	1.0390	10	0.1039	1.0390							0

Calib Flag: Replace

Average RF: 0.105689
RF StdDev: 0.00315904
RF %RSD: 2.989

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.105689



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 11 Pentachlorphenol

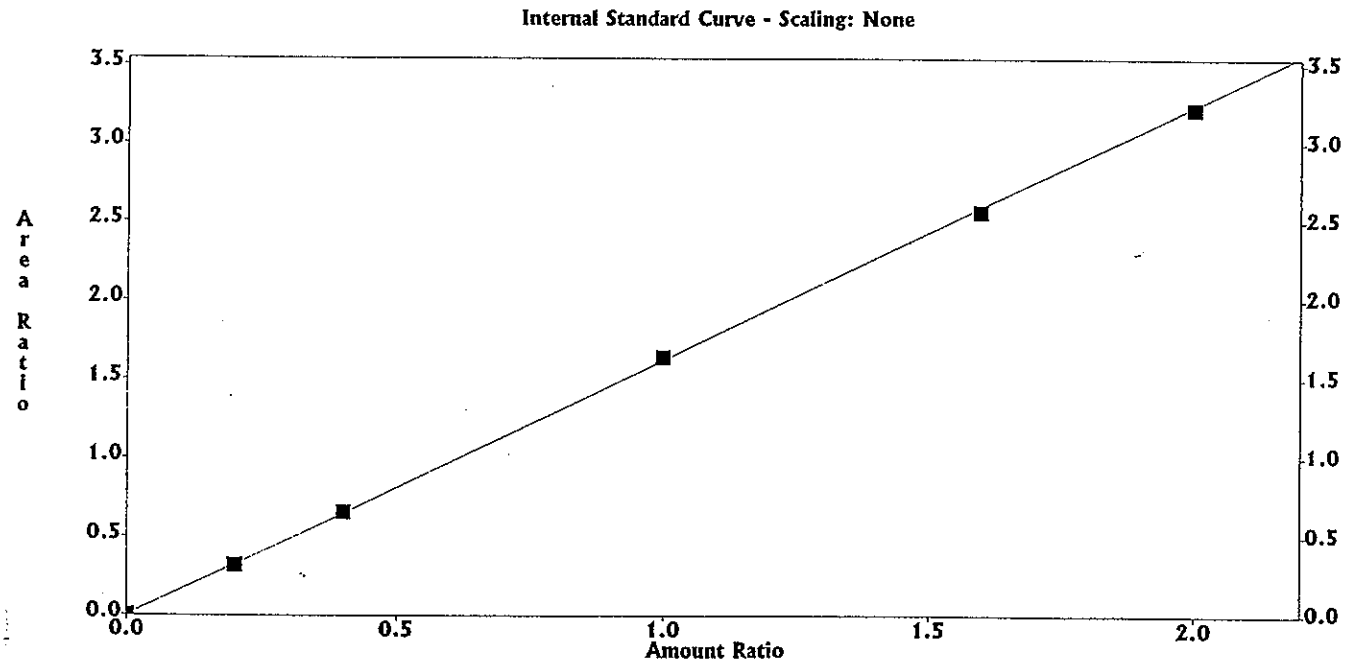
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3215	0.2	1.61	0.3215							0
2	0.6569	0.4	1.64	0.6569							0
3	1.6403	1	1.64	1.6403							0
4	2.5636	1.6	1.60	2.5636							0
5	3.2221	2	1.61	3.2221							0

Calib Flag: Replace

Average RF: 1.62064
RF StdDev: 0.0191153
RF %RSD: 1.179

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.62064



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 12 Silvex (m)

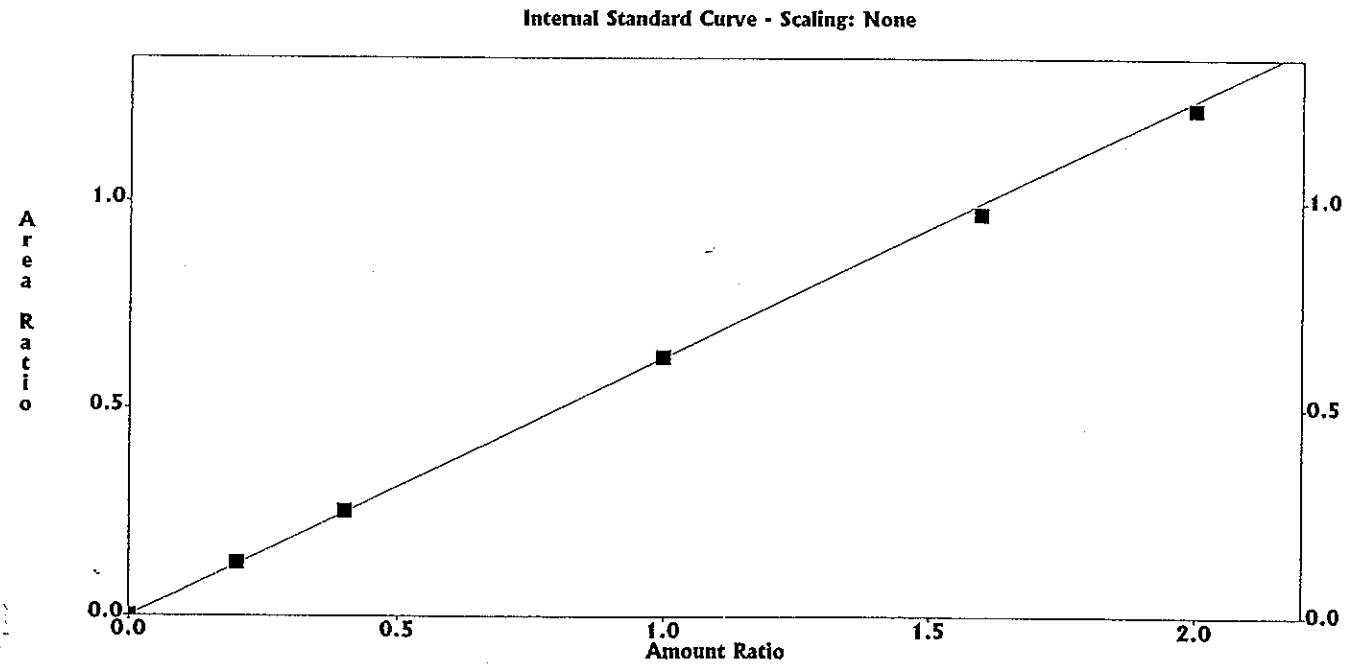
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1285	0.2	0.6423	0.1285							0
2	0.2527	0.4	0.6317	0.2527							0
3	0.6251	1	0.6251	0.6251							0
4	0.9710	1.6	0.6069	0.9710							0
5	1.2262	2	0.6131	1.2262							0

Calib Flag: Replace

Average RF: 0.623829
RF StdDev: 0.0142041
RF %RSD: 2.277

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.623829



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:46
Channel : B
Peak : 13 2,4,5-T (m)

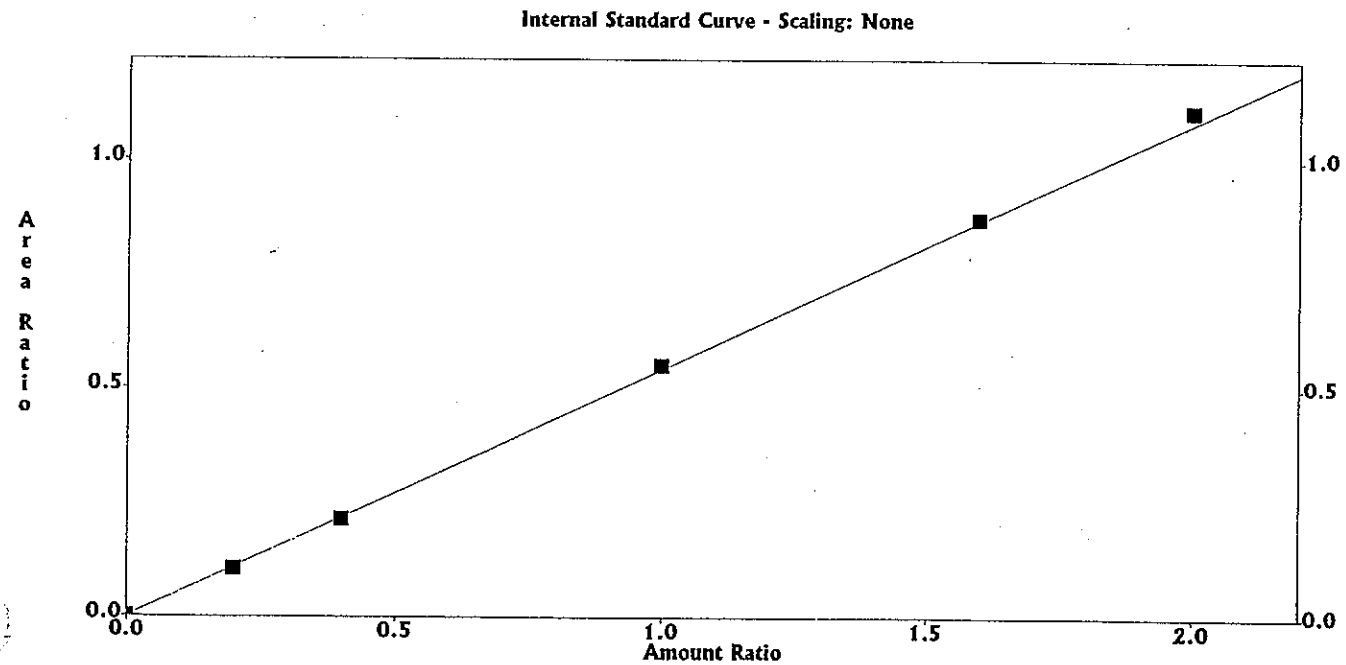
* - Replicate Not Used

.el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1046	0.2	0.5232	0.1046							0
2	0.2129	0.4	0.5322	0.2129							0
3	0.5507	1	0.5507	0.5507							0
4	0.8723	1.6	0.5452	0.8723							0
5	1.1102	2	0.5551	1.1102							0

Calib Flag: Replace

Average RF: 0.541272
RF StdDev: 0.0132705
RF %RSD: 2.452

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.541272



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 14 Dinoseb

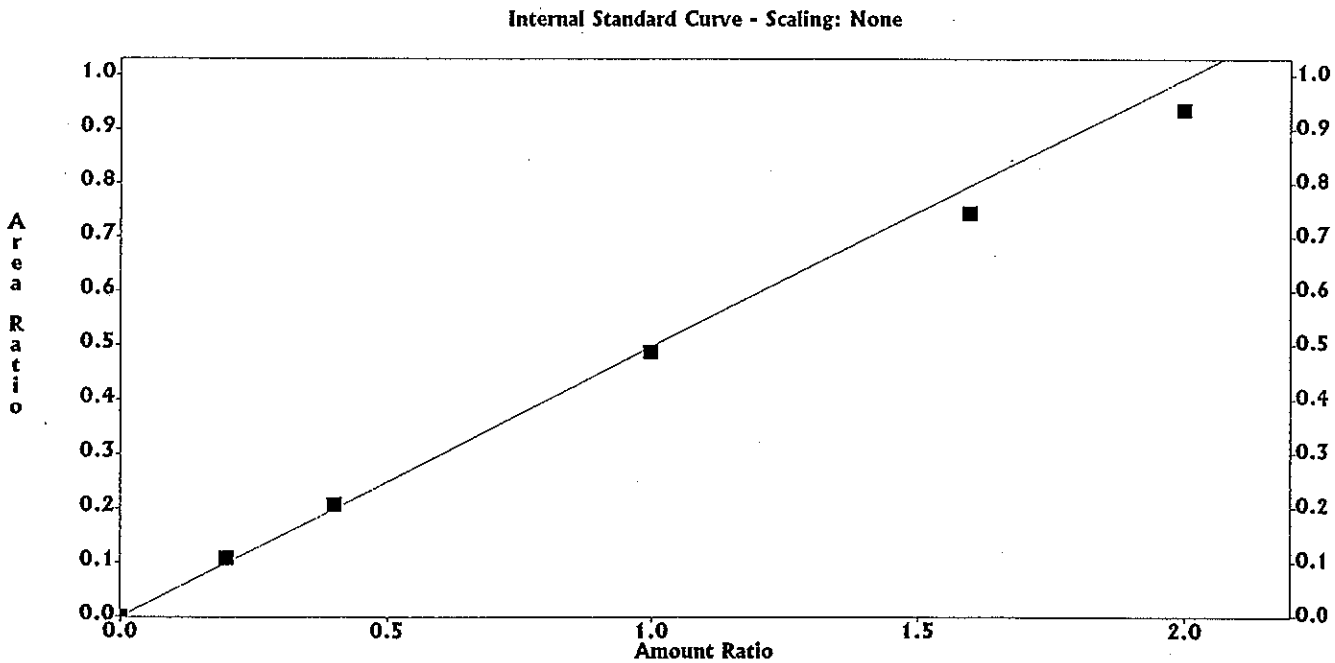
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1088	0.2	0.5442	0.1088							0
2	0.2074	0.4	0.5185	0.2074							0
3	0.4877	1	0.4877	0.4877							0
4	0.7450	1.6	0.4656	0.7450							0
5	0.9374	2	0.4687	0.9374							0

Calib Flag: Replace

Average RF: 0.496953
RF StdDev: 0.0337682
RF %RSD: 6.795

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.496953



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:47
Channel : B
Peak : 15 Chloramben

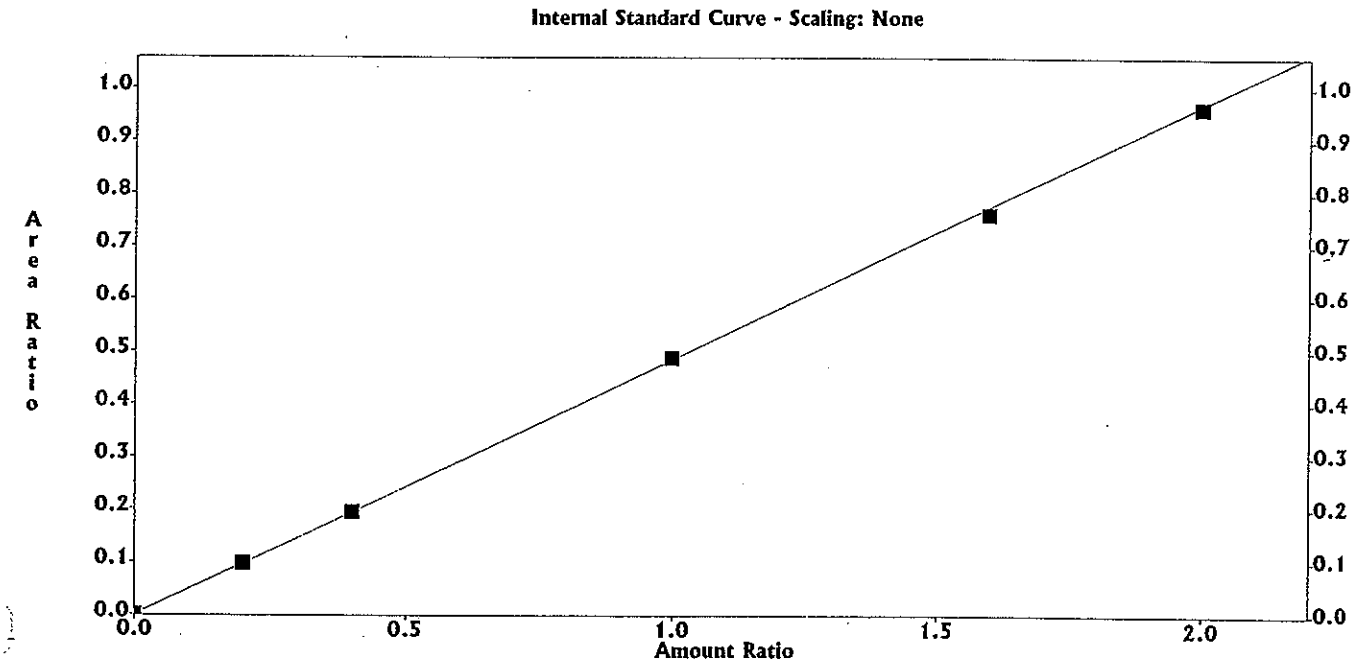
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0984	0.2	0.4922	0.0984							0
2	0.1945	0.4	0.4862	0.1945							0
3	0.4885	1	0.4885	0.4885							0
4	0.7606	1.6	0.4754	0.7606							0
5	0.9633	2	0.4817	0.9633							0

Calib Flag: Replace

Average RF: 0.48477
RF StdDev: 0.00648515
RF %RSD: 1.338

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.48477



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 16 2,4-DB

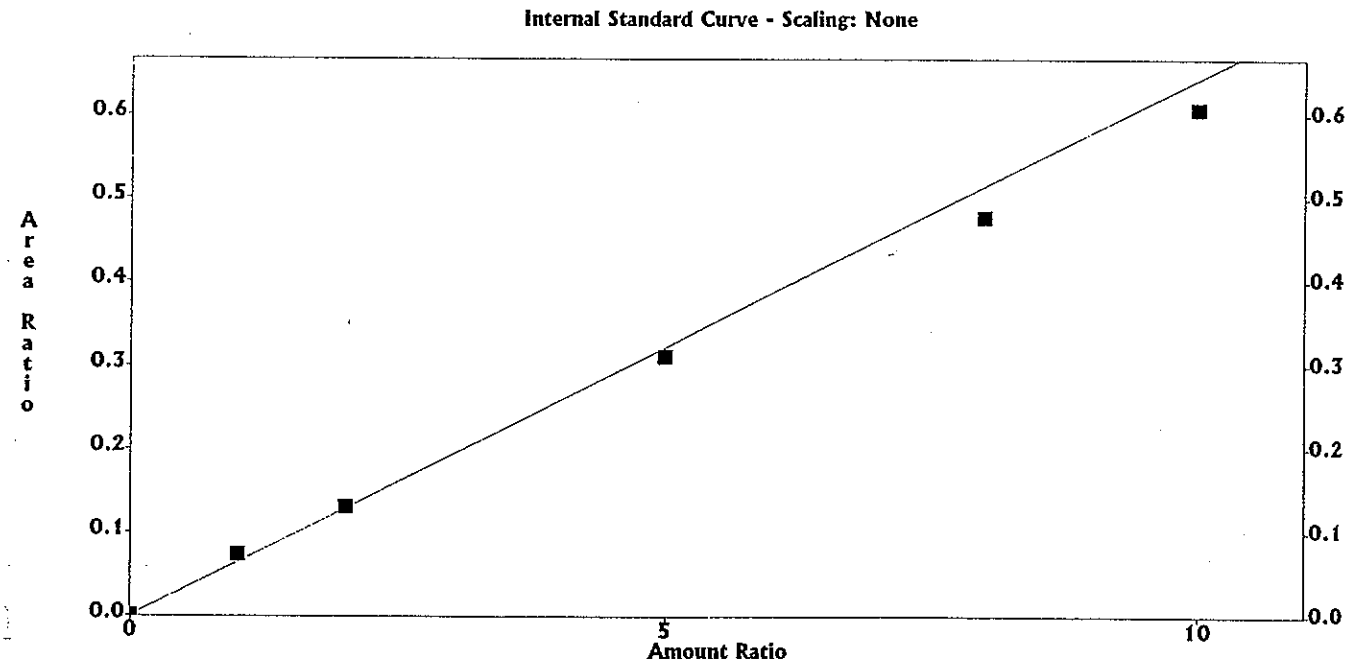
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0739	1	0.07388	0.0739							0
2	0.1309	2	0.06543	0.1309							0
3	0.3111	5	0.06223	0.3111							0
4	0.4774	8	0.05968	0.4774							0
5	0.6076	10	0.06076	0.6076							0

Calib Flag: Replace

Average RF: 0.0643943
RF StdDev: 0.00572644
RF %RSD: 8.893

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0643943



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:48
Channel : B
Peak : 17 Bentazon

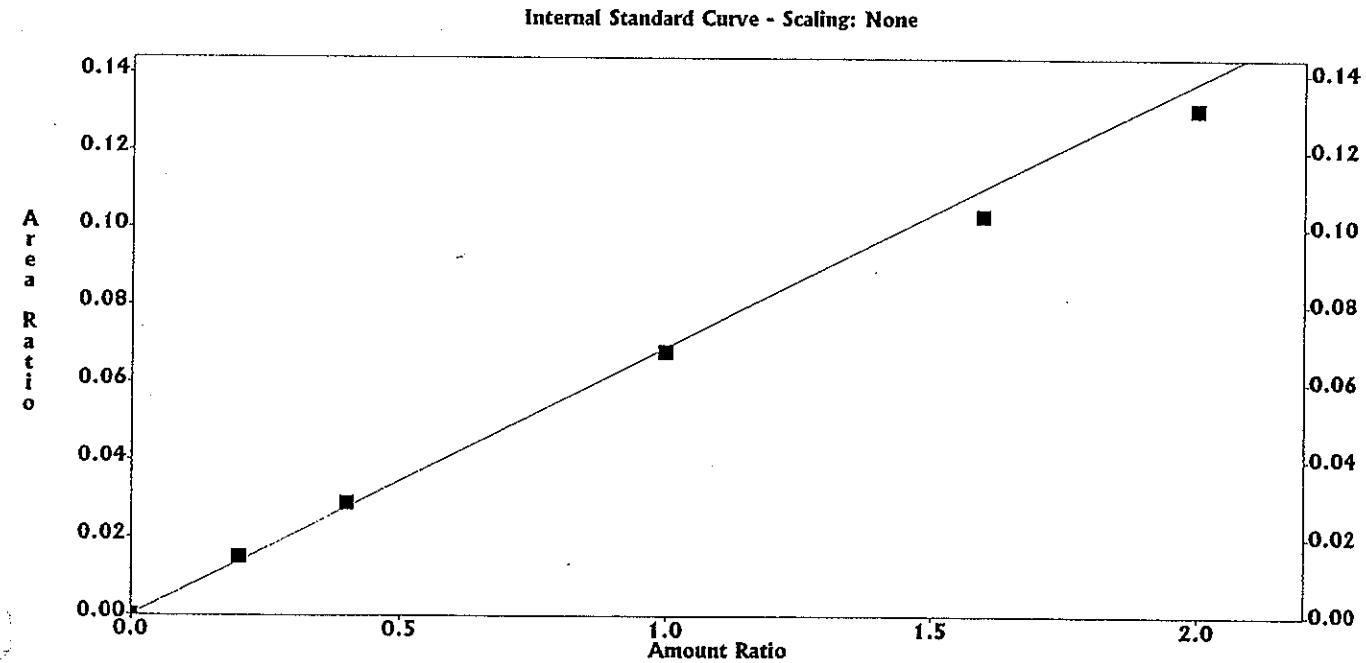
* - Replicate Not Used

,l	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0150	0.2	0.07504	0.0150							0
2	0.0287	0.4	0.07186	0.0287							0
3	0.0680	1	0.06797	0.0680							0
4	0.1032	1.6	0.06449	0.1032							0
5	0.1309	2	0.06547	0.1309							0

Calib Flag: Replace

Average RF: 0.0689651
RF StdDev: 0.00443058
RF %RSD: 6.424

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0689651



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 18 DCPA

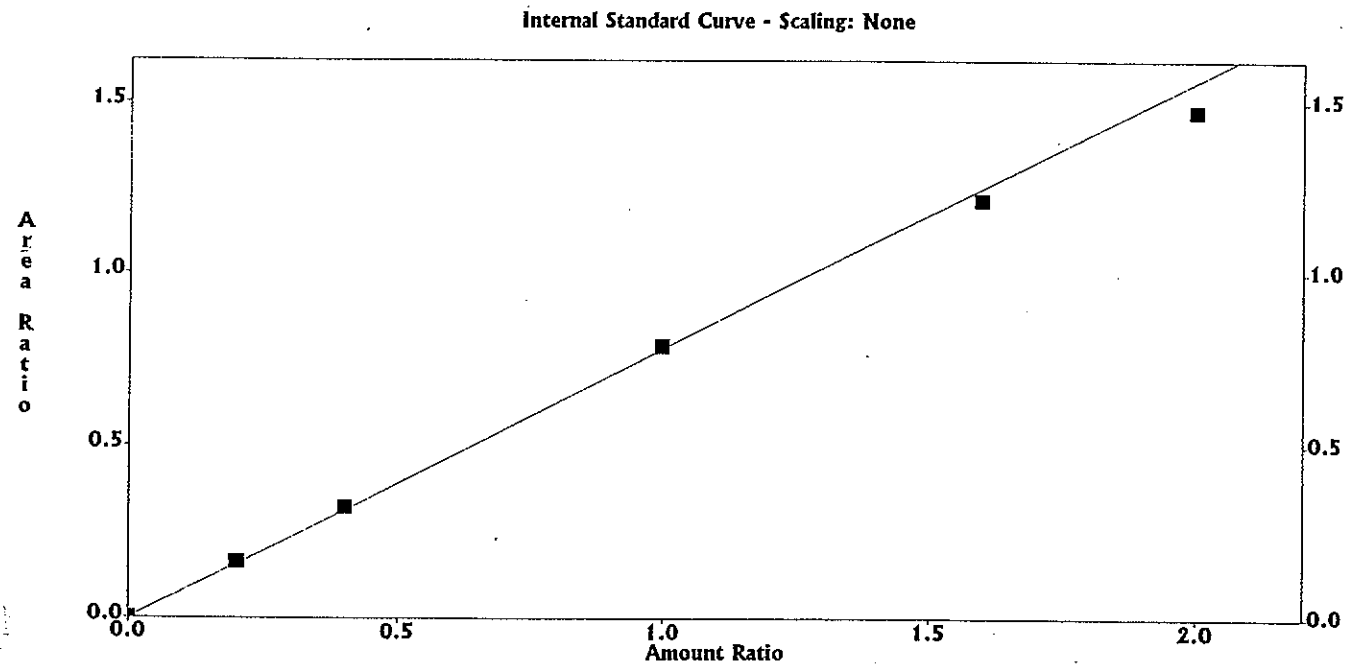
* - Replicate Not Used

Lvl	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1628	0.2	0.8142	0.1628							0
2	0.3226	0.4	0.8065	0.3226							0
3	0.7906	1	0.7906	0.7906							0
4	1.2167	1.6	0.7604	1.2167							0
5	1.4768	2	0.7384	1.4768							0

Calib Flag: Replace

Average RF: 0.782016
RF StdDev: 0.0319134
RF %RSD: 4.081

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.782016



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 19 Picloram

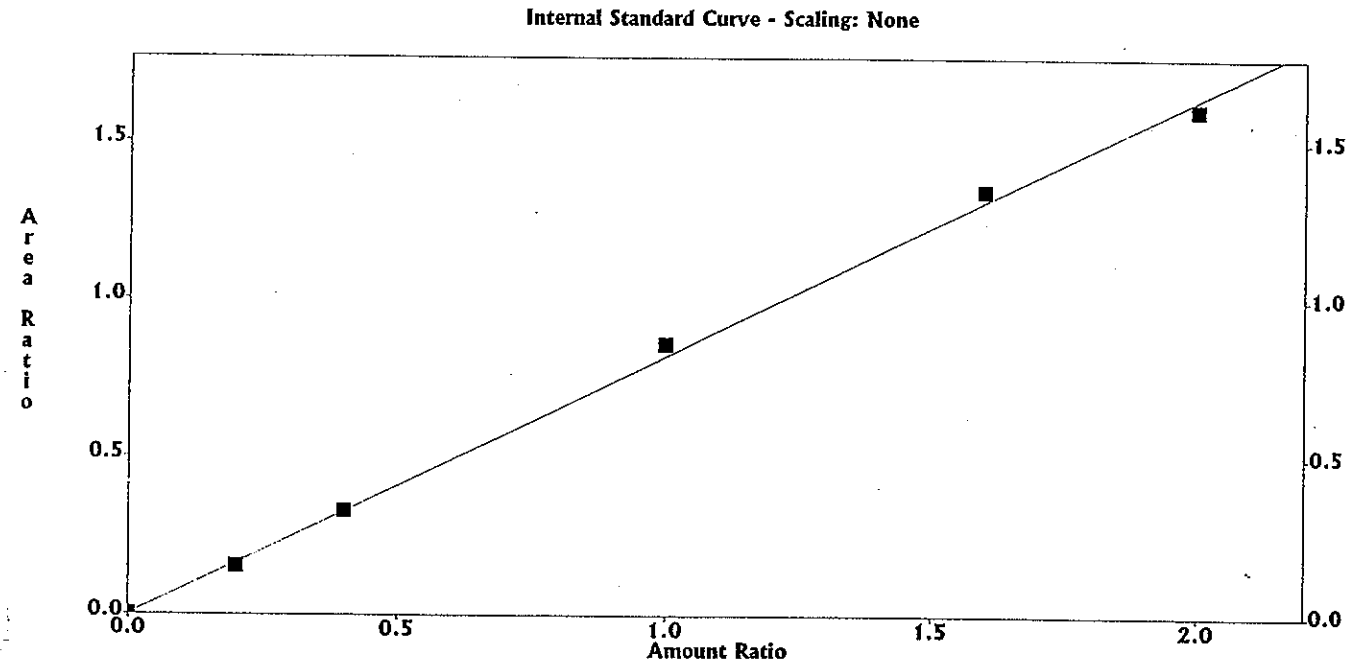
* - Replicate Not Used

el	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1546	0.2	0.7728	0.1546							0
2	0.3302	0.4	0.8255	0.3302							0
3	0.8587	1	0.8587	0.8587							0
4	1.3462	1.6	0.8414	1.3462							0
5	1.6088	2	0.8044	1.6088							0

Calib Flag: Replace

Average RF: 0.820557
RF StdDev: 0.0333579
RF %RSD: 4.065

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.820557



Method : c:\ezchrom\methods\8151-063.t00
Printed : Jul 09, 2003 09:55:49
Channel : B
Peak : 20 Acifluorfen

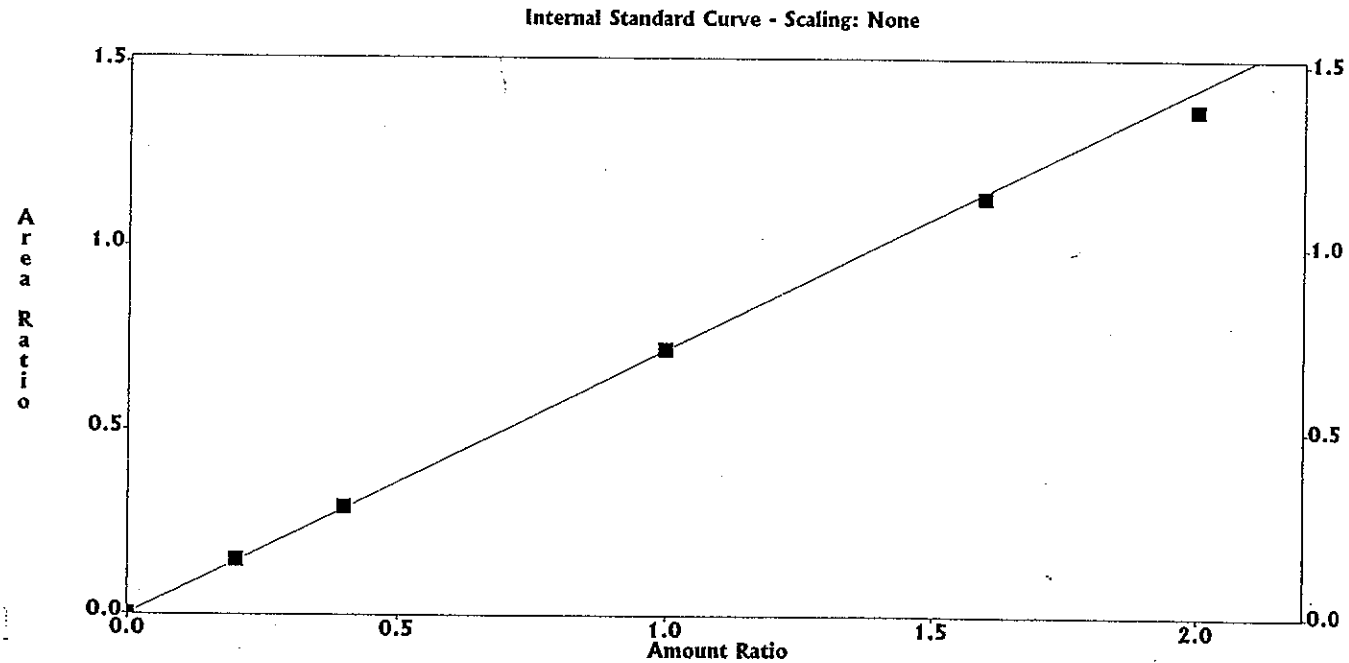
* - Replicate Not Used

Cal	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1485	0.2	0.7425	0.1485							0
2	0.2930	0.4	0.7325	0.2930							0
3	0.7200	1	0.72	0.7200							0
4	1.1354	1.6	0.7096	1.1354							0
5	1.3782	2	0.6891	1.3782							0

Calib Flag: Replace

Average RF: 0.718754
RF StdDev: 0.020734
RF %RSD: 2.885

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.718754



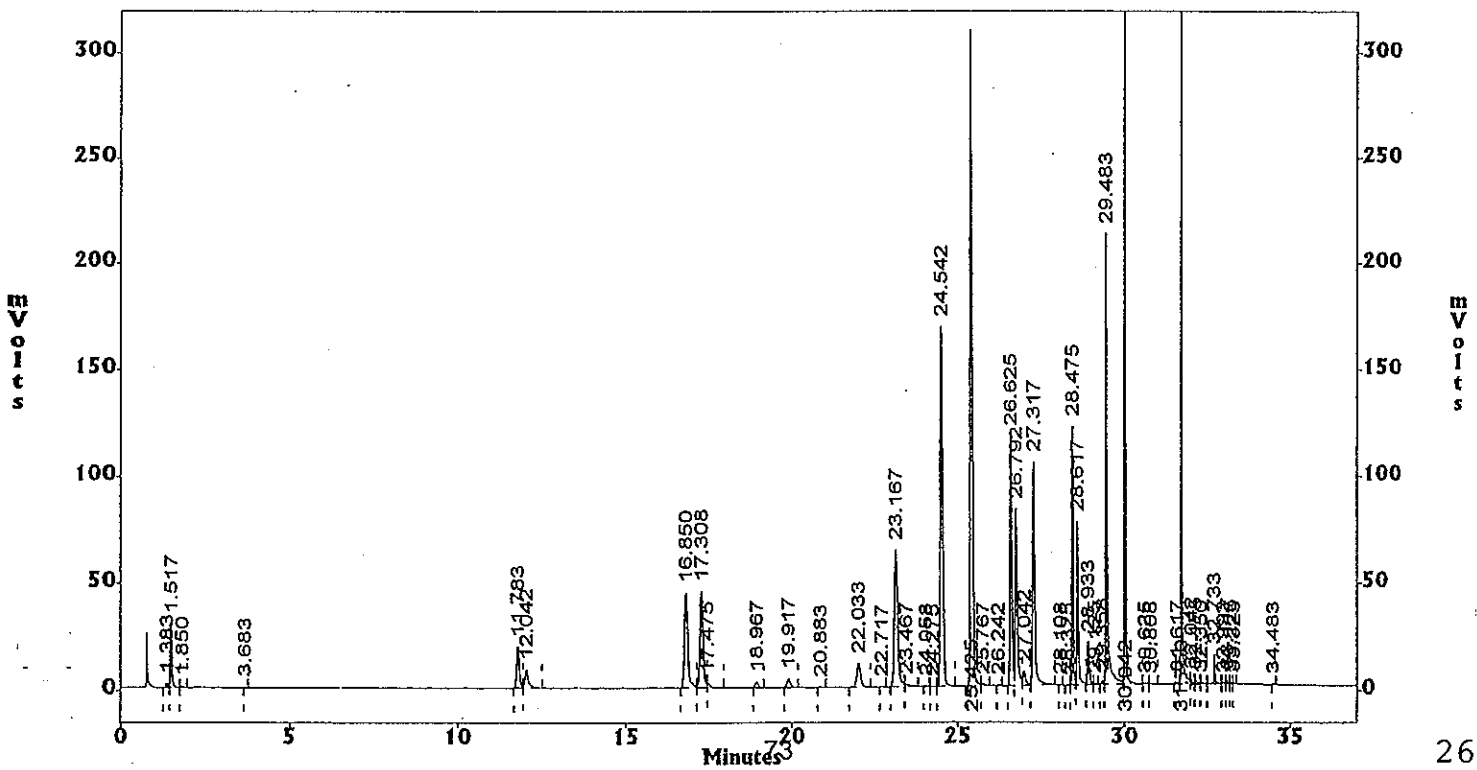
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
mple ID : ##03g3116,s GC14184
quired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.52	111475	29937	0.129749	251.15
5	2	3,5-Di-Cl-Bz acid	11.78	105410	19034	0.125046	246.42
6	3	4-Nitrophenol	12.04	59404	8280	0.070732	245.51
7	4	DCAA(Surr)	16.85	308684	44512	0.073885	1221.30
8	5	Dicamba	17.31	295593	45111	0.353447	244.48
10	6	MCPP(ppm)	18.97	16413	2582	0.179235	26.77
11	7	MCPA(PPm)	19.92	28134	3947	0.343572	23.94
13	8	Dichloroprop	22.03	87068	11009	0.099712	255.26
15	9	2,4-D (m)	23.17	431483	64067	0.101099	1247.61
19	10	DBOB (IS)	24.54	855215	168746	1.000000	250.00
20	11	Pentachlorphenol	25.42	1348189	309292	1.555308	253.40
23	12	Silvex (m)	26.63	484308	117189	0.558710	253.40
24	13	Chloramben	26.79	383702	82699	0.444269	252.47
26	14	2,4,5-T (m)	27.32	463950	104438	0.534963	253.52
29	15	Dinoseb	28.48	358769	121119	0.419514	250.00
30	16	2,4-DB	28.62	240558	76533	0.056452	1245.68
31	17	Bentazon	28.93	67993	19904	0.079392	250.35
34	18	Picloram	29.48	662747	211569	0.745522	259.87
35	19	DCPA	30.04	657205	316649	0.763057	251.77
39	20	Acifluorfen	31.75	609417	316960	0.710861	250.61

c:\data\2003\0307\8151t\03g3116\3116g.q01 -- Channel A

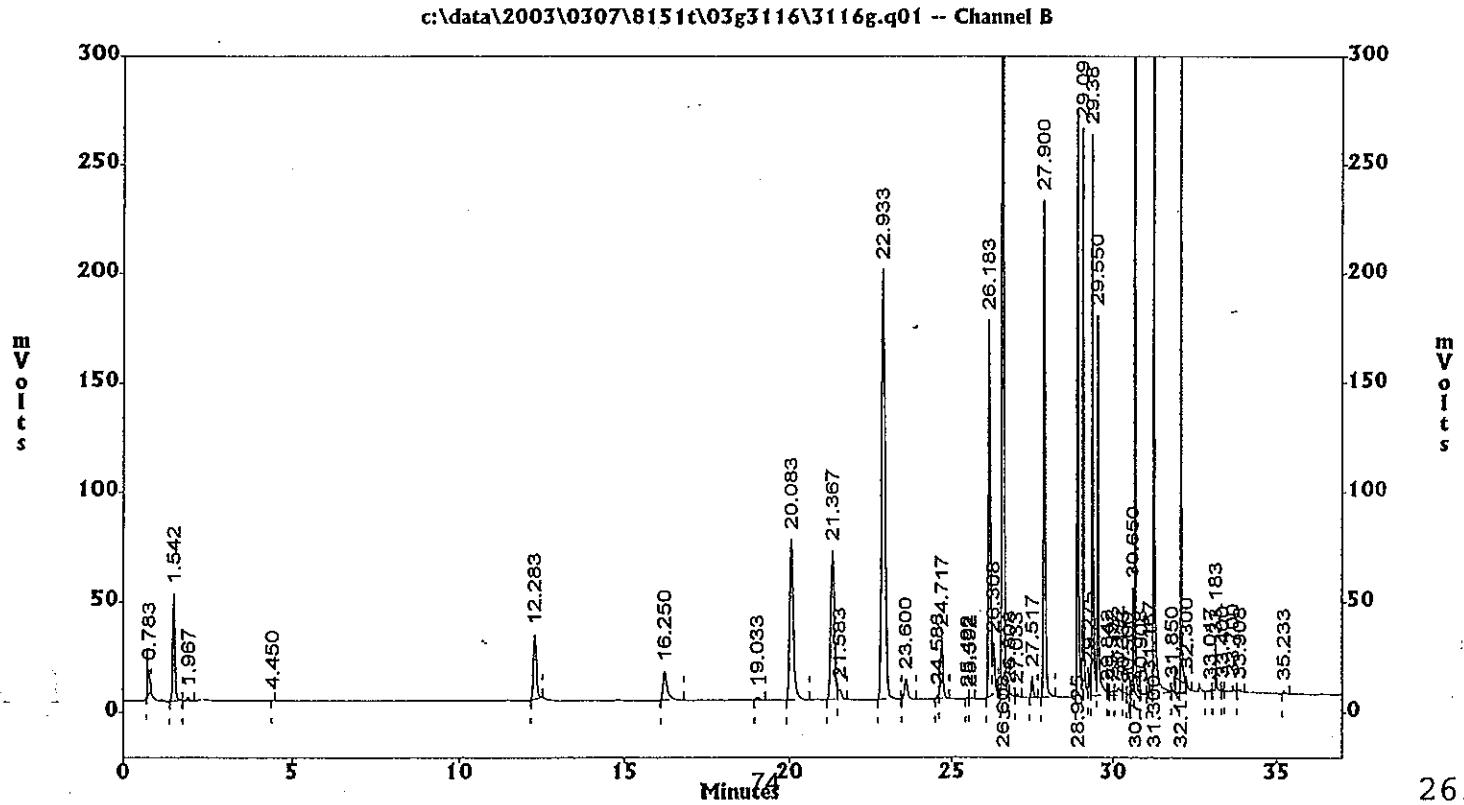


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\3116g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##03g3116,s GC14184
Acquired : Jul 08, 2003 17:05:37
Printed : Jul 09, 2003 22:44:58
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
2	1	Dalapon	1.54	223601	48562	0.159073	250.59
5	2	3,5-Di-Cl-Bz acid	12.28	183584	29171	0.140157	233.51
6	3	4-Nitrophenol	16.25	107834	12857	0.073447	261.74
8	4	DCAA (surr)	20.08	581042	73131	0.085575	1210.45
9	5	Dicamba	21.37	520623	67739	0.377820	245.65
10	6	MCPP (ppm)	21.58	32612	4461	0.224210	25.93
11	7	DBOB (IS)	22.93	1402341	196451	1.000000	250.00
12	8	MCPA (ppm)	23.60	59289	8943	0.438923	24.08
14	9	Dichloroprop	24.72	155810	27985	0.112632	246.62
17	10	2,4-D (m)	26.18	732906	172130	0.105689	1236.25
19	11	Pentachlorphenol	26.61	2276273	550193	1.620643	250.39
23	12	Silvex (m)	27.90	877925	227162	0.623829	250.89
24	13	2,4,5-T (m)	28.92	772896	266474	0.541272	254.56
25	14	Dinoseb	29.09	693676	259393	0.496953	248.84
27	15	Chloramben	29.38	693036	256621	0.484770	254.86
28	16	2,4-DB	29.55	456089	173518	0.064394	1262.67
34	17	Bentazon	30.65	95688	48518	0.068965	247.35
35	18	DCPA	30.73	1115576	570988	0.782016	254.31
38	19	Picloram	31.30	1209292	572608	0.820557	262.73
40	20	Acifluorfen	32.12	1025810	551982	0.718754	254.43



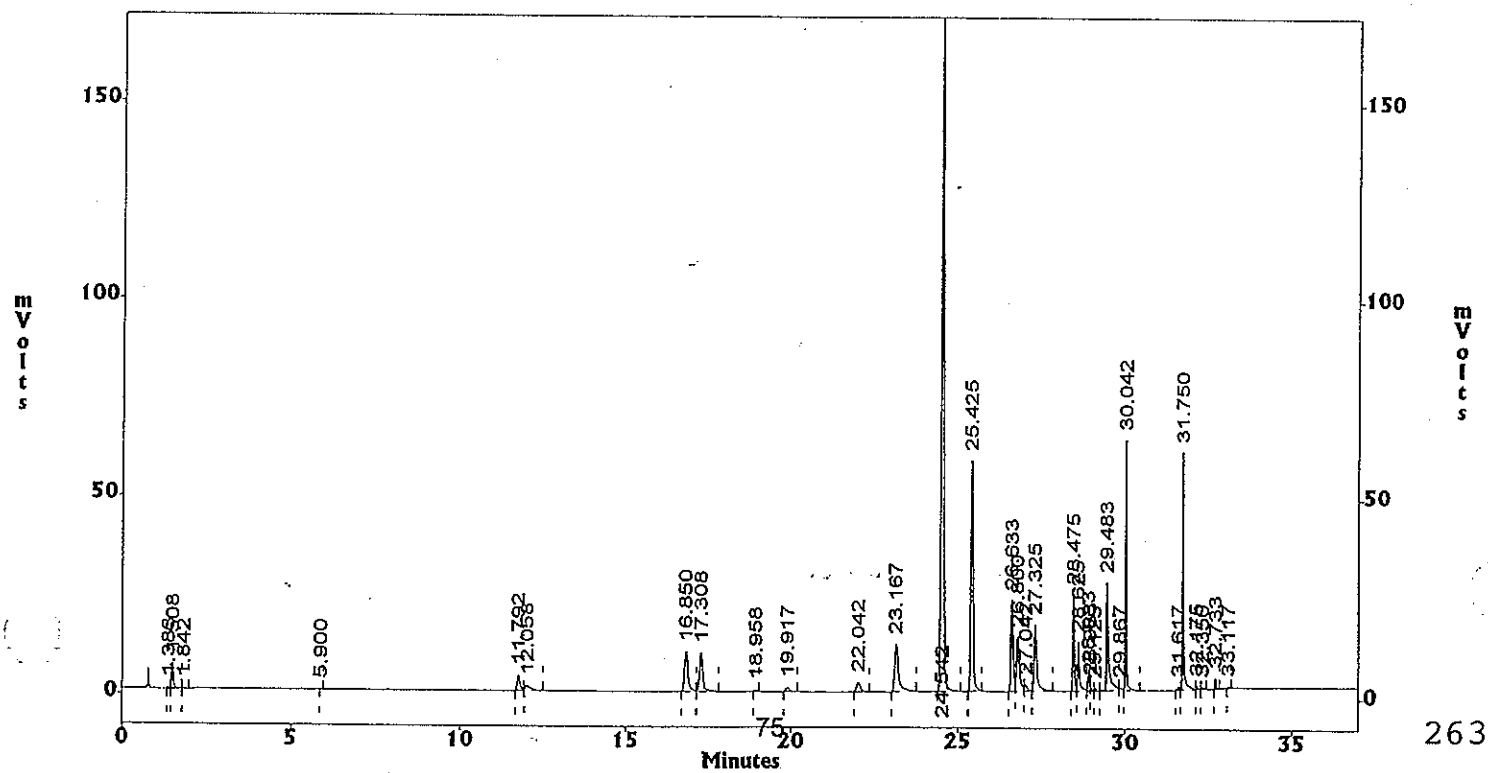
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.050
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 50 ppb GC15411
Acquired : Jul 08, 2003 13:43:06
Printed : Jul 09, 2003 09:52:01
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.51	23573	6342	0.129749	50.00
5	2	3,5-Di-Cl-Bz acid	11.79	23725	3760	0.125046	50.00
6	3	4-Nitrophenol	12.06	13296	1230	0.070732	50.00
7	4	DCAA(Surr)	16.85	73302	9866	0.073885	250.00
8	5	Dicamba	17.31	67260	9515	0.353447	50.00
9	6	MCPP(ppm)	18.96	2435	451	0.179235	5.00
10	7	MCPA(PPm)	19.92	7097	958	0.343572	5.00
11	8	Dichloroprop	22.04	18959	2388	0.099712	50.00
12	9	2,4-D (m)	23.17	96401	11876	0.101099	250.00
13	10	DBOB (IS)	24.54	869935	170873	1.000000	250.00
14	11	Pentachlorphenol	25.42	268629	57983	1.555308	50.00
15	12	Silvex (m)	26.63	99267	22833	0.558710	50.00
16	13	Chloramben	26.80	77517	13527	0.444269	50.00
18	14	2,4,5-T (m)	27.33	93116	16455	0.534963	50.00
19	15	Dinoseb	28.48	77072	24134	0.419514	50.00
20	16	2,4-DB	28.63	49814	12138	0.056452	250.00
21	17	Bentazon	28.93	14056	4384	0.079392	50.00
24	18	Picloram	29.48	119444	27055	0.745522	50.00
26	19	DCPA	30.04	141899	63027	0.763057	50.00
28	20	Acifluorfen	31.75	137371	59610	0.710861	50.00

c:\data\2003\0307\8151t\03g3116\8151-063.050 -- Channel A

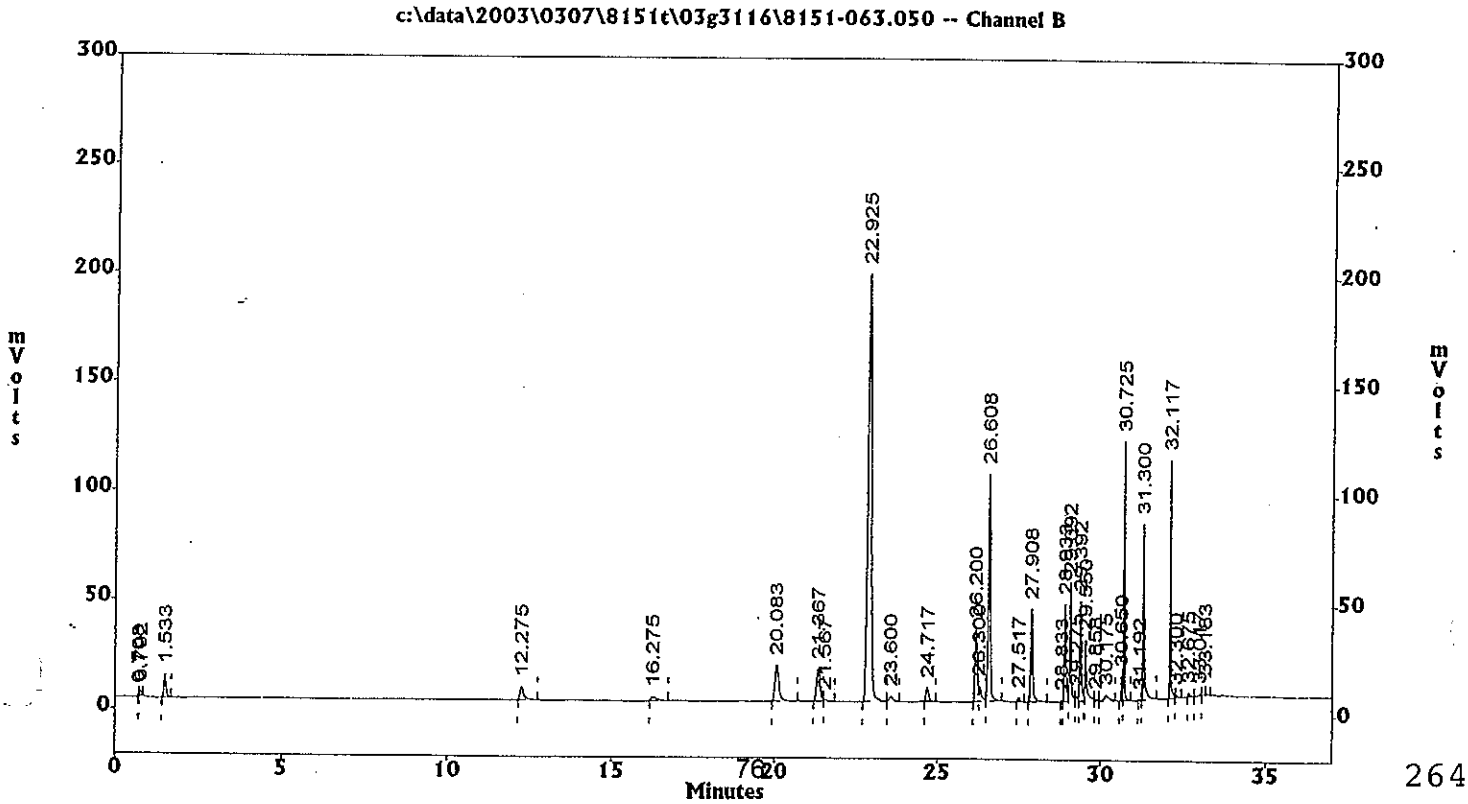


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.050
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 50 ppb GC15411
Acquired : Jul 08, 2003 13:43:06
Printed : Jul 09, 2003 09:52:02
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.53	47687	10580	0.159073	50.00
4	2	3,5-Di-Cl-Bz acid	12.27	47074	5952	0.140157	50.00
5	3	4-Nitrophenol	16.27	19284	1730	0.073447	50.00
6	4	DCAA (surr)	20.08	141275	16546	0.085575	250.00
7	5	Dicamba	21.37	116295	14679	0.377820	50.00
8	6	MCPP (ppm)	21.57	5895	839	0.224210	5.00
9	7	DBOB (IS)	22.92	1436921	195548	1.000000	250.00
10	8	MCPA (ppm)	23.60	15105	2308	0.438923	5.00
11	9	Dichloroprop	24.72	34671	6194	0.112632	50.00
12	10	2,4-D (m)	26.20	153530	33501	0.105689	250.00
14	11	Pentachlorphenol	26.61	461924	103812	1.620643	50.00
16	12	Silvex (m)	27.91	184585	42156	0.623829	50.00
18	13	2,4,5-T (m)	28.93	150365	44166	0.541272	50.00
19	14	Dinoseb	29.09	156392	53400	0.496953	50.00
21	15	Chloramben	29.39	141438	45438	0.484770	50.00
22	16	2,4-DB	29.55	106156	27624	0.064394	250.00
25	17	Bentazon	30.65	21565	11001	0.068965	50.00
26	18	DCPA	30.73	233984	118136	0.782016	50.00
28	19	Picloram	31.30	222095	80296	0.820557	50.00
29	20	Acifluorfen	32.12	213389	108544	0.718754	50.00



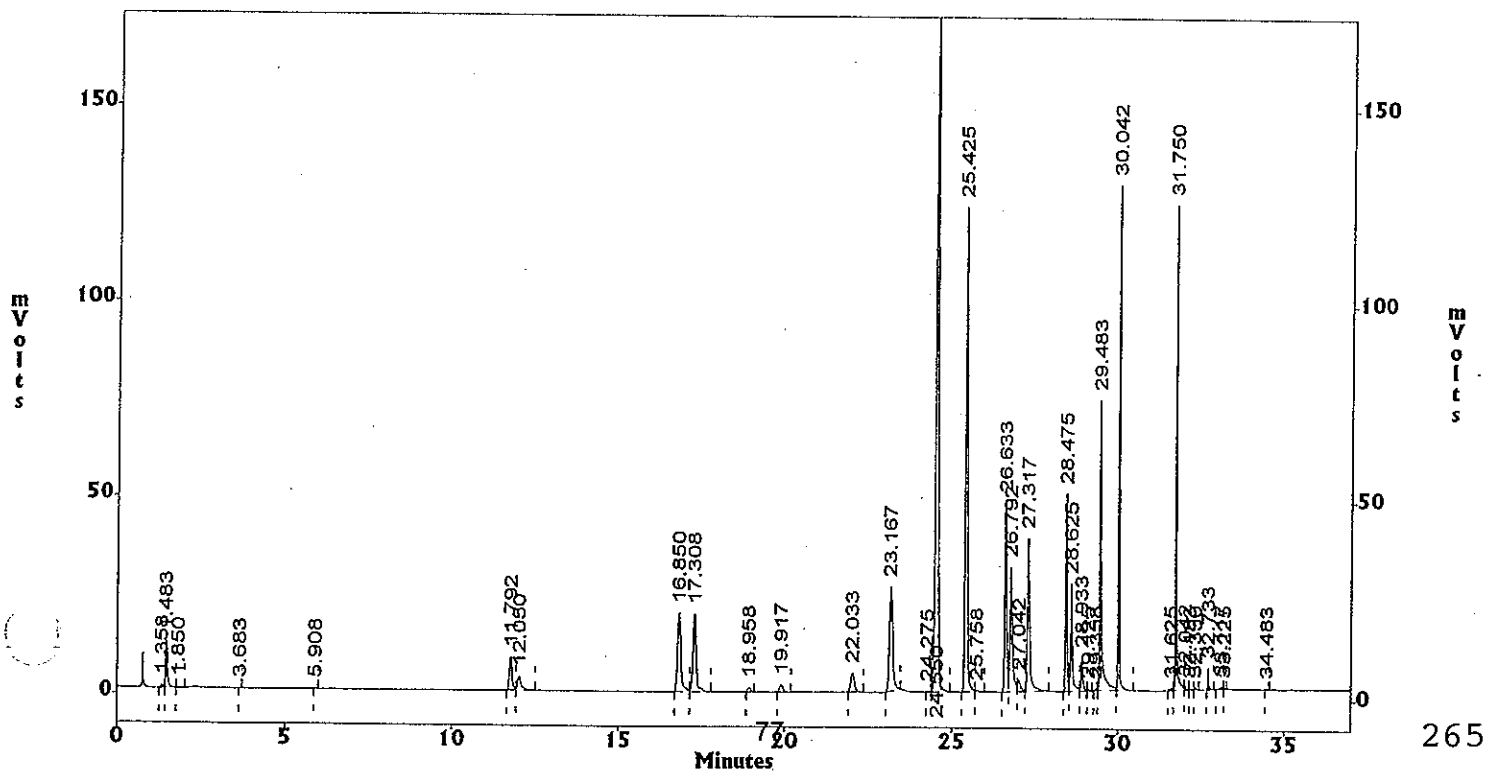
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.100
Method : c:\ezchrom\methods\8151-063.t00
mple ID : 100 ppb GC15412
..cquired : Jul 08, 2003 14:23:38
Printed : Jul 09, 2003 09:53:43
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.48	47140	11894	0.129749	100.00
6	2	3,5-Di-Cl-Bz acid	11.79	47149	8391	0.125046	100.00
7	3	4-Nitrophenol	12.05	27587	3542	0.070732	100.00
8	4	DCAA(Surr)	16.85	140200	19760	0.073885	500.00
9	5	Dicamba	17.31	132576	19526	0.353447	100.00
10	6	MCPP(ppm)	18.96	6270	1046	0.179235	10.00
11	7	MCPA(PPm)	19.92	13068	1784	0.343572	10.00
12	8	Dichloroprop	22.03	37086	4813	0.099712	100.00
13	9	2,4-D (m)	23.17	177723	26403	0.101099	500.00
15	10	DBOB (IS)	24.55	879800	172176	1.000000	250.00
16	11	Pentachlorphenol	25.42	557129	123458	1.555308	100.00
18	12	Silvex (m)	26.63	203296	48039	0.558710	100.00
19	13	Chloramben	26.79	160744	31580	0.444269	100.00
21	14	2,4,5-T (m)	27.32	194053	38776	0.534963	100.00
22	15	Dinoseb	28.48	152758	50095	0.419514	100.00
23	16	2,4-DB	28.63	99151	27216	0.056452	500.00
24	17	Bentazon	28.93	31118	8451	0.079392	100.00
27	18	Picloram	29.48	262275	73722	0.745522	100.00
28	19	DCPA	30.04	280020	128645	0.763057	100.00
30	20	Acifluorfen	31.75	257006	123527	0.710861	100.00

c:\data\2003\0307\8151t\03g3116\8151-063.100 -- Channel A

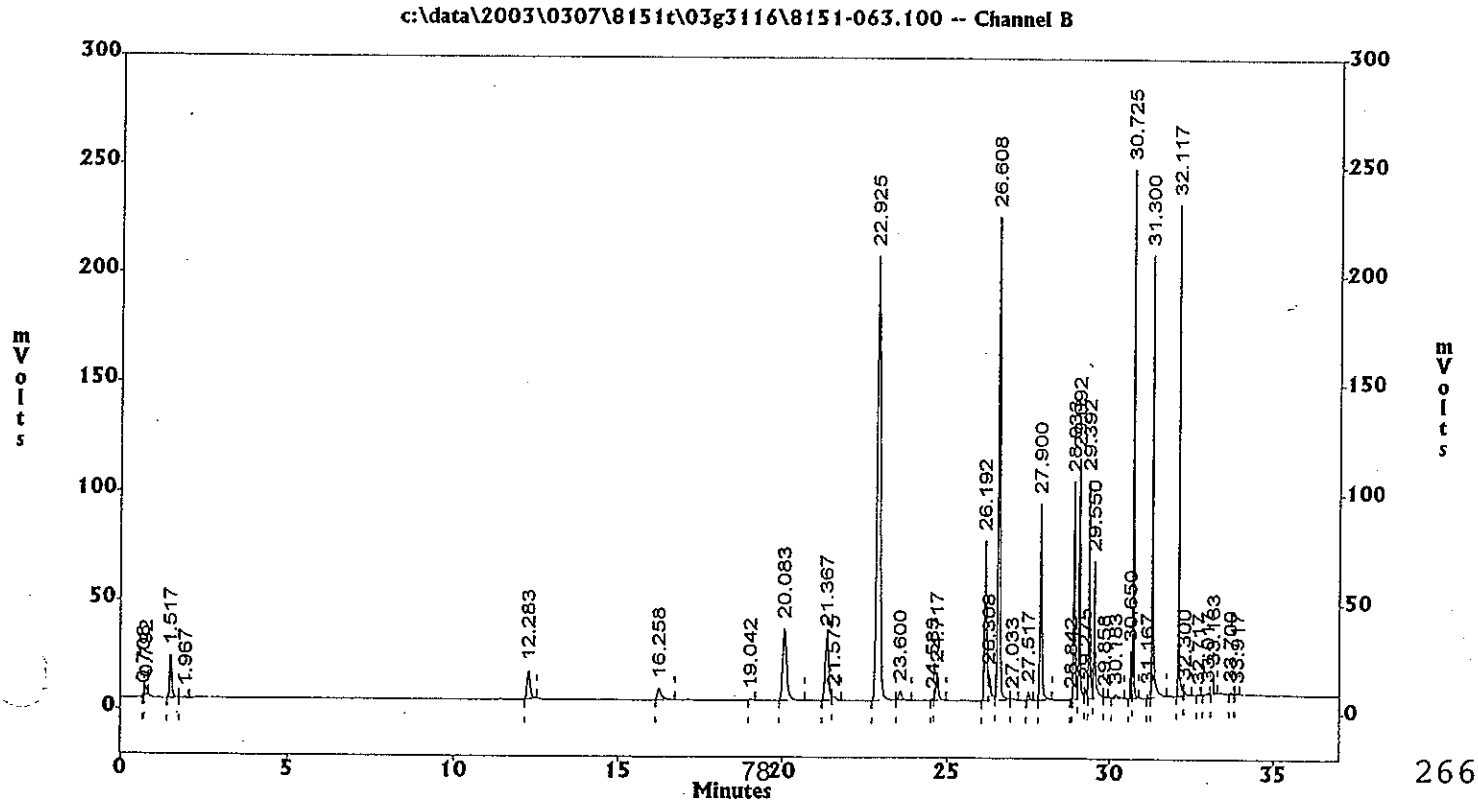


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.100
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 100 ppb GC15412
Acquired : Jul 08, 2003 14:23:38
Printed : Jul 09, 2003 09:53:44
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.52	99292	19556	0.159073	100.00
5	2	3,5-Di-Cl-Bz acid	12.28	83081	12876	0.140157	100.00
6	3	4-Nitrophenol	16.26	45627	5307	0.073447	100.00
8	4	DCAA (surr)	20.08	268486	32944	0.085575	500.00
9	5	Dicamba	21.37	227495	29541	0.377820	100.00
10	6	MCPP (ppm)	21.58	12290	1831	0.224210	10.00
11	7	DBOB (IS)	22.92	1454235	203402	1.000000	250.00
12	8	MCPA (ppm)	23.60	27990	4172	0.438923	10.00
14	9	Dichloroprop	24.72	71523	12834	0.112632	100.00
15	10	2,4-D (m)	26.19	319779	73285	0.105689	500.00
17	11	Pentachlorphenol	26.61	955279	221250	1.620643	100.00
20	12	Silvex (m)	27.90	367481	89935	0.623829	100.00
22	13	2,4,5-T (m)	28.93	309554	99648	0.541272	100.00
23	14	Dinoseb	29.09	301615	110059	0.496953	100.00
25	15	Chloramben	29.39	282827	99683	0.484770	100.00
26	16	2,4-DB	29.55	190305	62721	0.064394	500.00
29	17	Bentazon	30.65	41800	21494	0.068965	100.00
30	18	DCPA	30.73	469123	242162	0.782016	100.00
32	19	Picloram	31.30	480204	202458	0.820557	100.00
33	20	Acifluorfen	32.12	426097	224695	0.718754	100.00



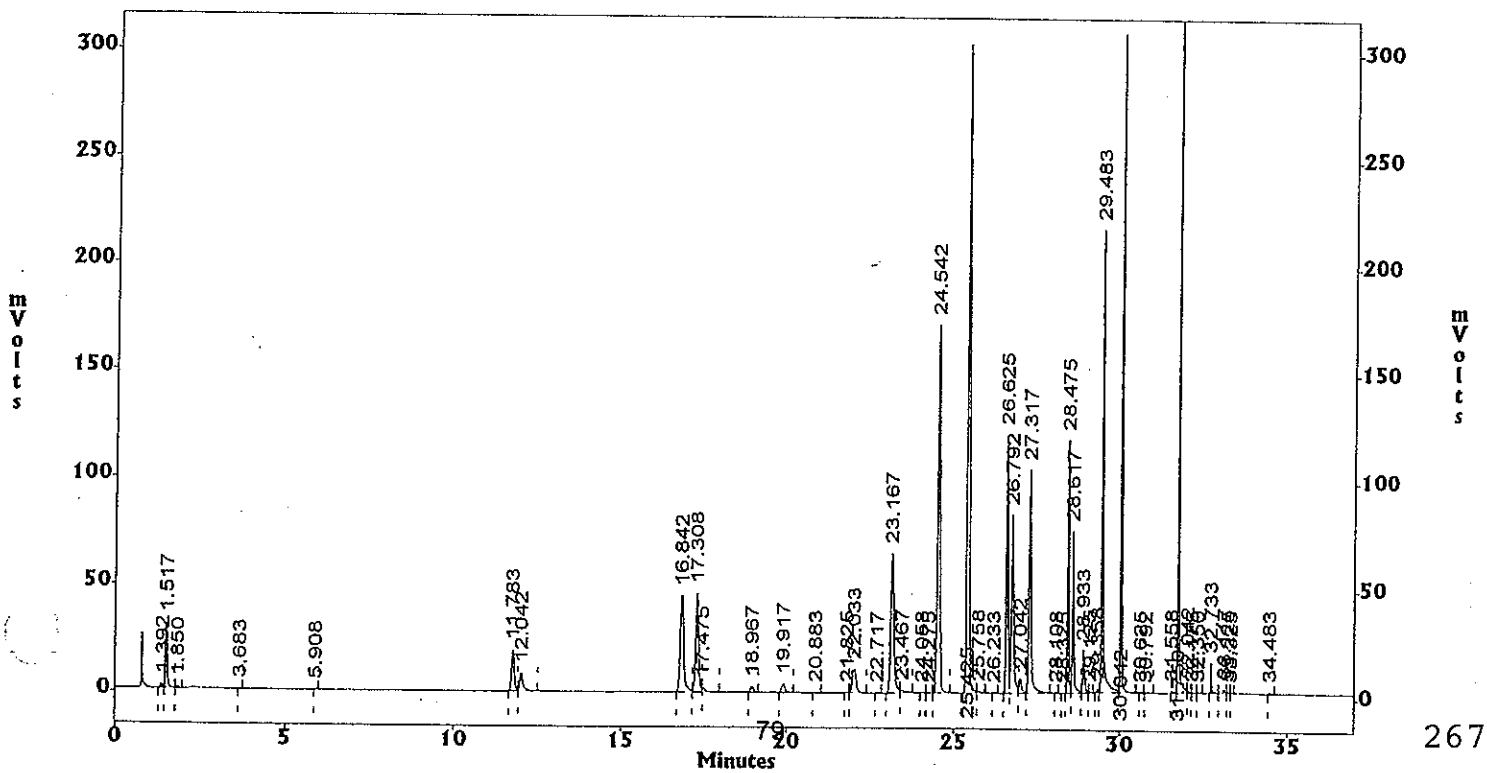
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.250
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 250 ppb GC15413
Acquired : Jul 08, 2003 15:04:06
Printed : Jul 09, 2003 09:54:03
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.52	111507	30647	0.129749	250.00
6	2	3,5-Di-Cl-Bz acid	11.78	106487	19152	0.125046	250.00
7	3	4-Nitrophenol	12.04	59855	8458	0.070732	250.00
8	4	DCAA(Surr)	16.84	311696	44867	0.073885	1250.00
9	5	Dicamba	17.31	297688	45968	0.353447	250.00
11	6	MCPP(ppm)	18.97	16652	2613	0.179235	25.00
12	7	MCPA(PPm)	19.92	28307	3992	0.343572	25.00
15	8	Dichloroprop	22.03	85793	11122	0.099712	250.00
17	9	2,4-D (m)	23.17	434435	65089	0.101099	1250.00
21	10	DBOB (IS)	24.54	861640	171392	1.000000	250.00
22	11	Pentachlorphenol	25.42	1357219	302645	1.555308	250.00
25	12	Silvex (m)	26.63	485101	120370	0.558710	250.00
26	13	Chloramben	26.79	388907	83104	0.444269	250.00
28	14	2,4,5-T (m)	27.32	467517	103836	0.534963	250.00
31	15	Dinoseb	28.48	359577	117811	0.419514	250.00
32	16	2,4-DB	28.62	242309	75397	0.056452	1250.00
33	17	Bentazon	28.93	68006	19876	0.079392	250.00
36	18	Picloram	29.48	662608	215572	0.745522	250.00
37	19	DCPA	30.04	649572	307144	0.763057	250.00
41	20	Acifluorfen	31.75	599456	313487	0.710861	250.00

c:\data\2003\0307\8151t\03g3116\8151-063.250 -- Channel A

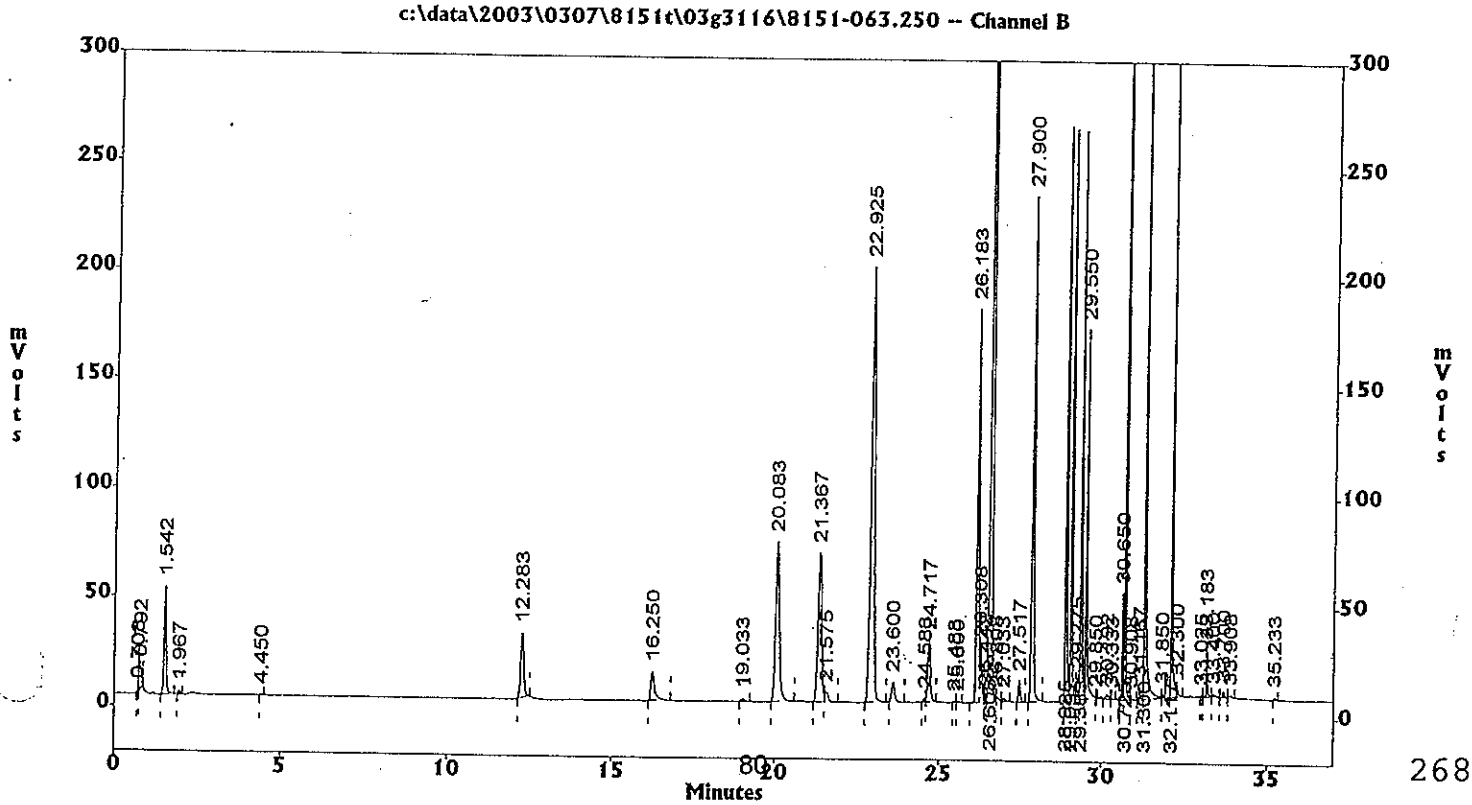


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.250
hod : c:\ezchrom\methods\8151-063.t00
Sample ID : 250 ppb GC15413
Acquired : Jul 08, 2003 15:04:06
Printed : Jul 09, 2003 09:54:03
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.54	221295	49146	0.159073	250.00
6	2	3,5-Di-Cl-Bz acid	12.28	185609	29476	0.140157	250.00
7	3	4-Nitrophenol	16.25	109019	13114	0.073447	250.00
9	4	DCAA (surr)	20.08	585422	73019	0.085575	1250.00
10	5	Dicamba	21.37	525325	68102	0.377820	250.00
11	6	MCPP (ppm)	21.58	33925	4570	0.224210	25.00
12	7	DBOB (IS)	22.92	1410839	199087	1.000000	250.00
13	8	MCPA (ppm)	23.60	59917	9131	0.438923	25.00
15	9	Dichloroprop	24.72	156758	28338	0.112632	250.00
18	10	2,4-D (m)	26.18	749046	179986	0.105689	1250.00
21	11	Pentachlorphenol	26.61	2314261	552841	1.620643	250.00
25	12	Silvex (m)	27.90	881935	231091	0.623829	250.00
26	13	2,4,5-T (m)	28.92	776929	262803	0.541272	250.00
27	14	Dinoseb	29.09	688129	261422	0.496953	250.00
29	15	Chloramben	29.38	689128	260281	0.484770	250.00
30	16	2,4-DB	29.55	438952	168792	0.064394	1250.00
34	17	Bentazon	30.65	95894	48529	0.068965	250.00
35	18	DCPA	30.73	1115386	569031	0.782016	250.00
38	19	Picloram	31.30	1211421	575518	0.820557	250.00
40	20	Acifluorfen	32.12	1015845	566746	0.718754	250.00



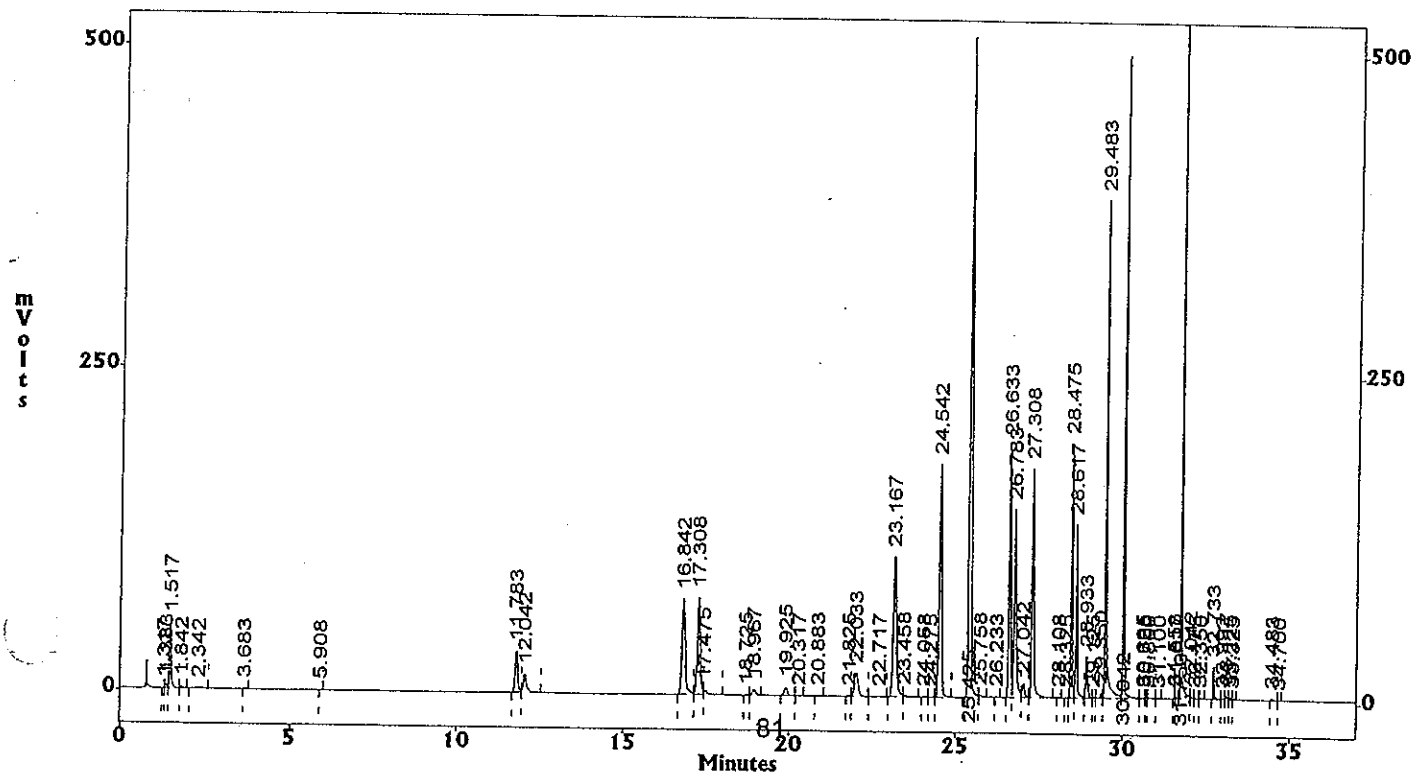
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.400
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 400 ppb GC15414
Acquired : Jul 08, 2003 15:44:37
Printed : Jul 09, 2003 09:54:24
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.52	180885	50176	0.129749	400.00
8	2	3,5-Di-Cl-Bz acid	11.78	169319	31046	0.125046	400.00
9	3	4-Nitrophenol	12.04	94083	13754	0.070732	400.00
10	4	DCAA(Surr)	16.84	492855	72706	0.073885	2000.00
11	5	Dicamba	17.31	477515	73633	0.353447	400.00
14	6	MCPP(ppm)	18.97	27817	4229	0.179235	40.00
15	7	MCPA(PPm)	19.92	44430	6398	0.343572	40.00
19	8	Dichloroprop	22.03	135384	17620	0.099712	400.00
21	9	2,4-D (m)	23.17	704046	107122	0.101099	2000.00
25	10	DBOB (IS)	24.54	9[illegible]421	178623	1.000000	250.00
26	11	Pentachlorphenol	25.42	22[illegible]3200	511384	1.555308	400.00
29	12	Silvex (m)	26.63	[illegible]38495	193780	0.558710	400.00
30	13	Chloramben	26.78	632401	144503	0.444269	400.00
32	14	2,4,5-T (m)	27.31	763039	175693	0.534963	400.00
35	15	Dinoseb	28.48	585644	195316	0.419514	400.00
36	16	2,4-DB	28.62	406187	132800	0.056452	2000.00
37	17	Bentazon	28.93	109324	31397	0.079392	400.00
40	18	Picloram	29.48	1110009	384314	0.745522	400.00
41	19	DCPA	30.04	1060684	497358	0.763057	400.00
48	20	Acifluorfen	31.75	973633	522248	0.710861	400.00

c:\data\2003\0307\8151t\03g3116\8151-063.400 -- Channel A

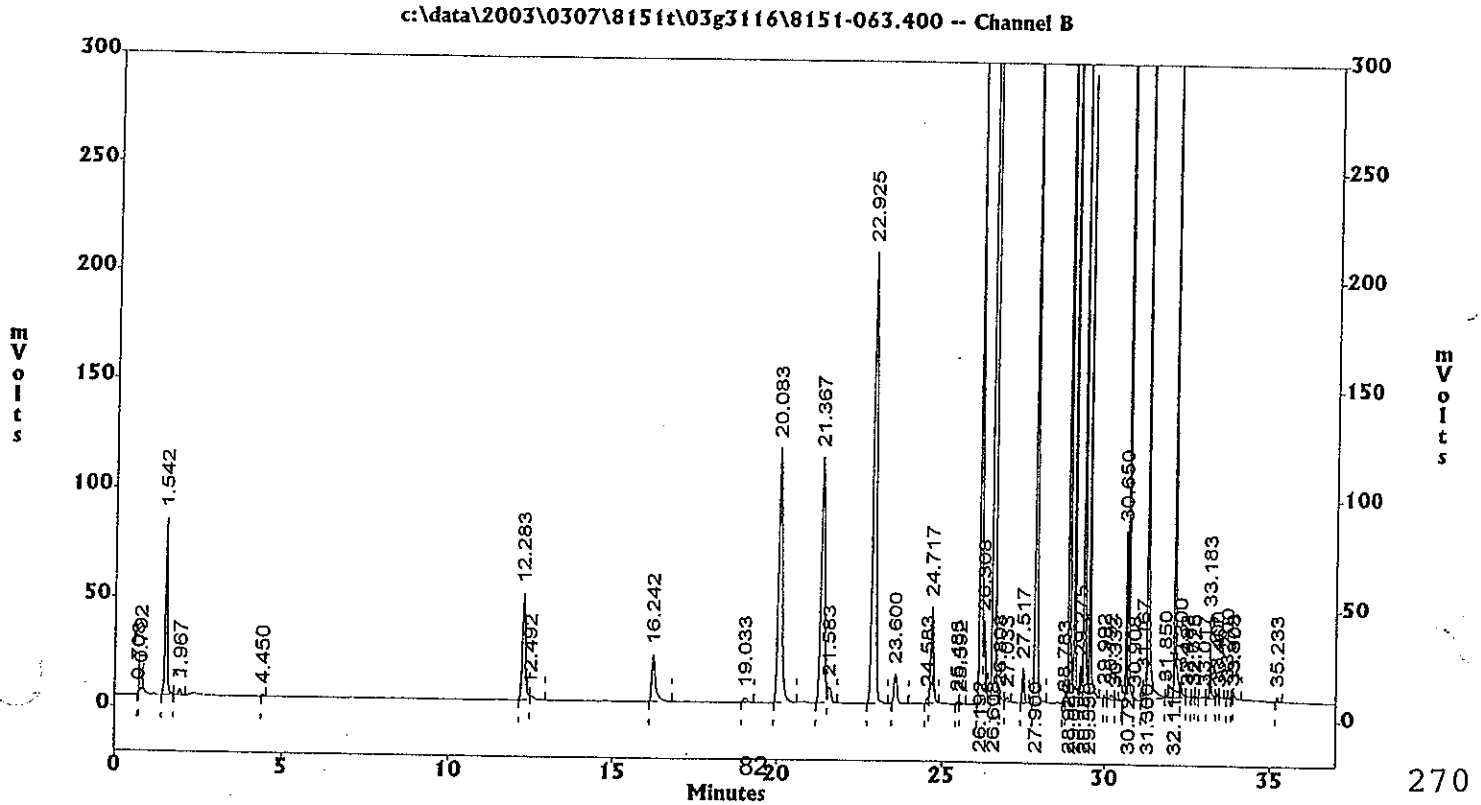


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.400
hod : c:\ezchrom\methods\8151-063.t00
Sample ID : 400 ppb GC15414
Acquired : Jul 08, 2003 15:44:37
Printed : Jul 09, 2003 09:54:25
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.54	352864	80925	0.159073	400.00
6	2	3,5-Di-Cl-Bz acid	12.28	311223	48669	0.140157	400.00
8	3	4-Nitrophenol	16.24	170740	21313	0.073447	400.00
10	4	DCAA (surr)	20.08	912229	116420	0.085575	2000.00
11	5	Dicamba	21.37	846506	112210	0.377820	400.00
12	6	MCPP (ppm)	21.58	54474	7343	0.224210	40.00
13	7	DBOB (IS)	22.92	1476649	206767	1.000000	250.00
14	8	MCPA (ppm)	23.60	90846	13604	0.438923	40.00
16	9	Dichloroprop	24.72	244822	44054	0.112632	400.00
19	10	2,4-D (m)	26.19	1199815	292645	0.105689	2000.00
21	11	Pentachlorphenol	26.61	3785564	919616	1.620643	400.00
25	12	Silvex (m)	27.90	1433882	376696	0.623829	400.00
27	13	2,4,5-T (m)	28.92	1288065	456034	0.541272	400.00
28	14	Dinoseb	29.09	1100133	425901	0.496953	400.00
30	15	Chloramben	29.38	1123133	439395	0.484770	400.00
31	16	2,4-DB	29.55	704983	285749	0.064394	2000.00
35	17	Bentazon	30.65	152359	77369	0.068965	400.00
36	18	DCPA	30.73	1796580	926678	0.782016	400.00
39	19	Picloram	31.30	1987925	997448	0.820557	400.00
41	20	Acifluorfen	32.12	1676601	933496	0.718754	400.00



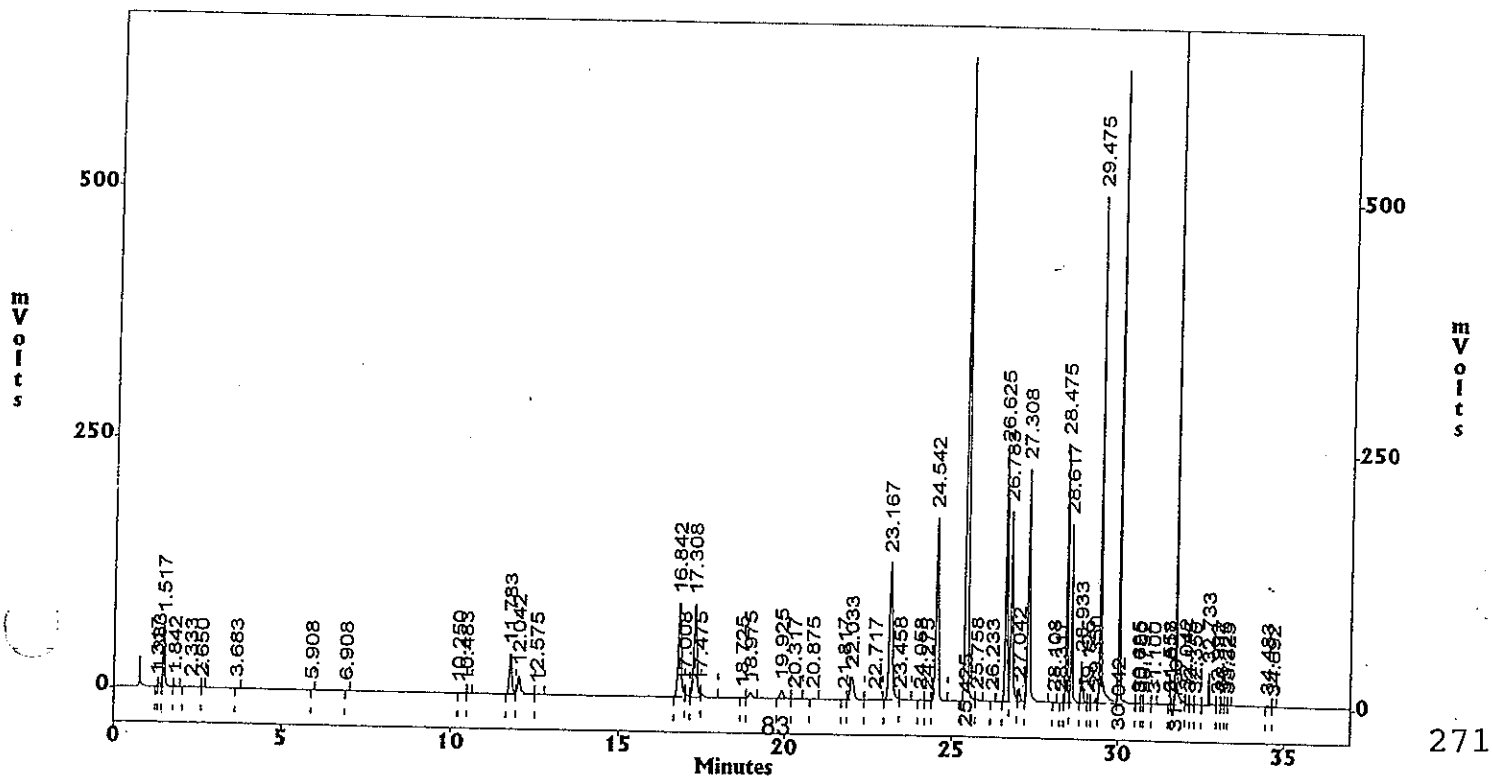
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.500
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 500 ppb GC15415
Acquired : Jul 08, 2003 16:25:05
Printed : Jul 09, 2003 09:54:53
User : Bao Quan Zhang

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.52	230626	62723	0.129749	500.00
12	2	3,5-Di-Cl-Bz acid	11.78	211093	38670	0.125046	500.00
13	3	4-Nitrophenol	12.04	118863	17623	0.070732	500.00
15	4	DCAA(Surr)	16.84	600531	92330	0.073885	2500.00
17	5	Dicamba	17.31	606524	91668	0.353447	500.00
20	6	MCPP(ppm)	18.98	35558	5313	0.179235	50.00
21	7	MCPA(PPm)	19.92	55967	8053	0.343572	50.00
25	8	Dichloroprop	22.03	168226	21969	0.099712	500.00
27	9	2,4-D (m)	23.17	882175	136167	0.101099	2500.00
31	10	DBOB (IS)	24.54	916229	181019	1.000000	250.00
32	11	Pentachlorphenol	25.42	2827312	640370	1.555308	500.00
35	12	Silvex (m)	26.63	992513	248083	0.558710	500.00
36	13	Chloramben	26.78	795341	188278	0.444269	500.00
38	14	2,4,5-T (m)	27.31	957231	230649	0.534963	500.00
41	15	Dinoseb	28.48	735923	256290	0.419514	500.00
42	16	2,4-DB	28.62	519471	176817	0.056452	2500.00
43	17	Bentazon	28.93	135337	39774	0.079392	500.00
46	18	Picloram	29.48	1403005	503616	0.745522	500.00
47	19	DCPA	30.04	1324471	629277	0.763057	500.00
54	20	Acifluorfen	31.75	1229730	670291	0.710861	500.00

c:\data\2003\0307\8151t\03g3116\8151-063.500 -- Channel A

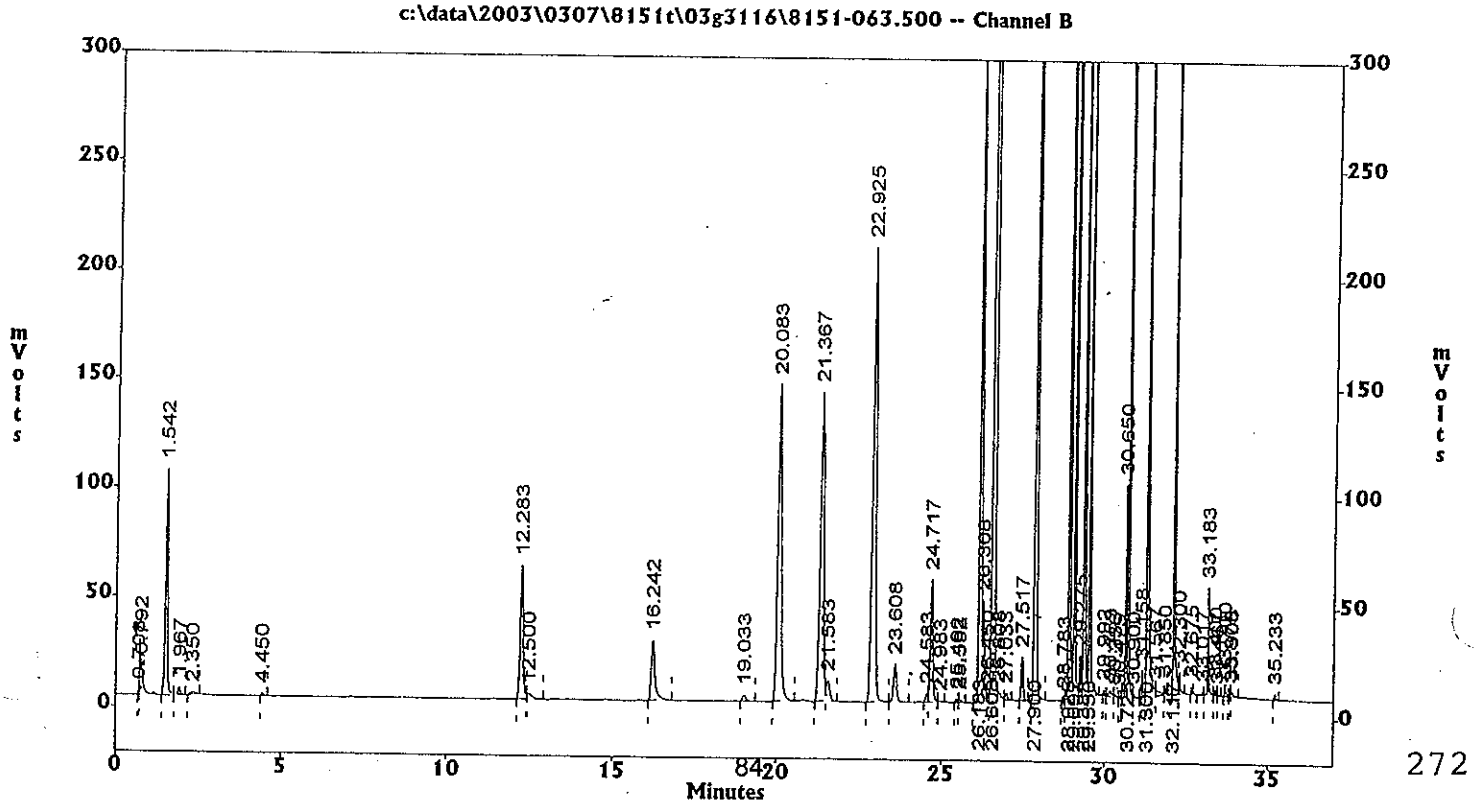


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2003\0307\8151t\03g3116\8151-063.500
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : 500 ppb GC15415
Acquired : Jul 08, 2003 16:25:05
Printed : Jul 09, 2003 09:54:54
User : Bao Quan Zhang

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.54	447571	102906	0.159073	500.00
7	2	3,5-Di-Cl-Bz acid	12.28	384015	60487	0.140157	500.00
9	3	4-Nitrophenol	16.24	211734	26979	0.073447	500.00
11	4	DCAA (surr)	20.08	1130245	144636	0.085575	2500.00
12	5	Dicamba	21.37	1064283	141090	0.377820	500.00
13	6	MCPP (ppm)	21.58	68551	9200	0.224210	50.00
14	7	DBOB (IS)	22.92	1467149	207922	1.000000	250.00
15	8	MCPA (ppm)	23.61	111101	17309	0.438923	50.00
17	9	Dichloroprop	24.72	307597	55460	0.112632	500.00
21	10	2,4-D (m)	26.18	1524385	366869	0.105689	2500.00
24	11	Pentachlorphenol	26.61	4727257	1076172	1.620643	500.00
28	12	Silvex (m)	27.90	1799010	478563	0.623829	500.00
30	13	2,4,5-T (m)	28.92	1628869	575104	0.541272	500.00
31	14	Dinoseb	29.09	1375241	526940	0.496953	500.00
33	15	Chloramben	29.38	1413316	577338	0.484770	500.00
34	16	2,4-DB	29.55	891429	383391	0.064394	2500.00
39	17	Bentazon	30.65	192112	97264	0.068965	500.00
40	18	DCPA	30.73	2166747	1065193	0.782016	500.00
43	19	Picloram	31.30	2360325	1073038	0.820557	500.00
46	20	Acifluorfen	32.12	2021964	1070986	0.718754	500.00



FORM-7B

Applied P & CH Laboratories

CCV Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No.:		Lab Code:	APCL
Case No:		SAS No.:		Service ID:	44824
Project ID:	BBDA4	Project No.:	175141	Instrument	T
		Batch No.:	04G3762	Sequence No.	04G3762
CCV File:	3762G.Q01	Date Analyzed:	10/19/2004	Time Analyzed:	09:42

Target Components (Channel-A Column: DB-608)

#	Component Name	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	by
1	2,4-D	µg/L	1250	1300	104	4	√	85-115	CCV
2	2,4 DB	µg/L	1250	1270	102	2	√	85-115	CCV
3	DALAPON	µg/L	250	240	96	-4	√	85-115	CCV
4	DICAMBA	µg/L	250	246	99	-1	√	85-115	CCV
5	DICHLOROPROP	µg/L	250	249	100	0	√	85-115	CCV
6	DINOSEB (DNBP)	µg/L	250	245	98	-2	√	85-115	CCV
7	MCPA	µg/L	25	43.7	175	75	X	85-115	CCV
8	MCPP	µg/L	25	63.2	253	153	X	85-115	CCV
9	2,4,5-T	µg/L	250	258	103	3	√	85-115	CCV
10	2,4,5-TP (SILVEX)	µg/L	250	257	103	3	√	85-115	CCV
						Total CCV Out of Control	2		

Surrogate Components (Channel-A Column: DB-608)

1	2,4-DICHLOROPHENYLACETIC ACID	µg/L	1200	1240	103	3	√	85-115	CCV
						Total Surrogate Out of Control	0		

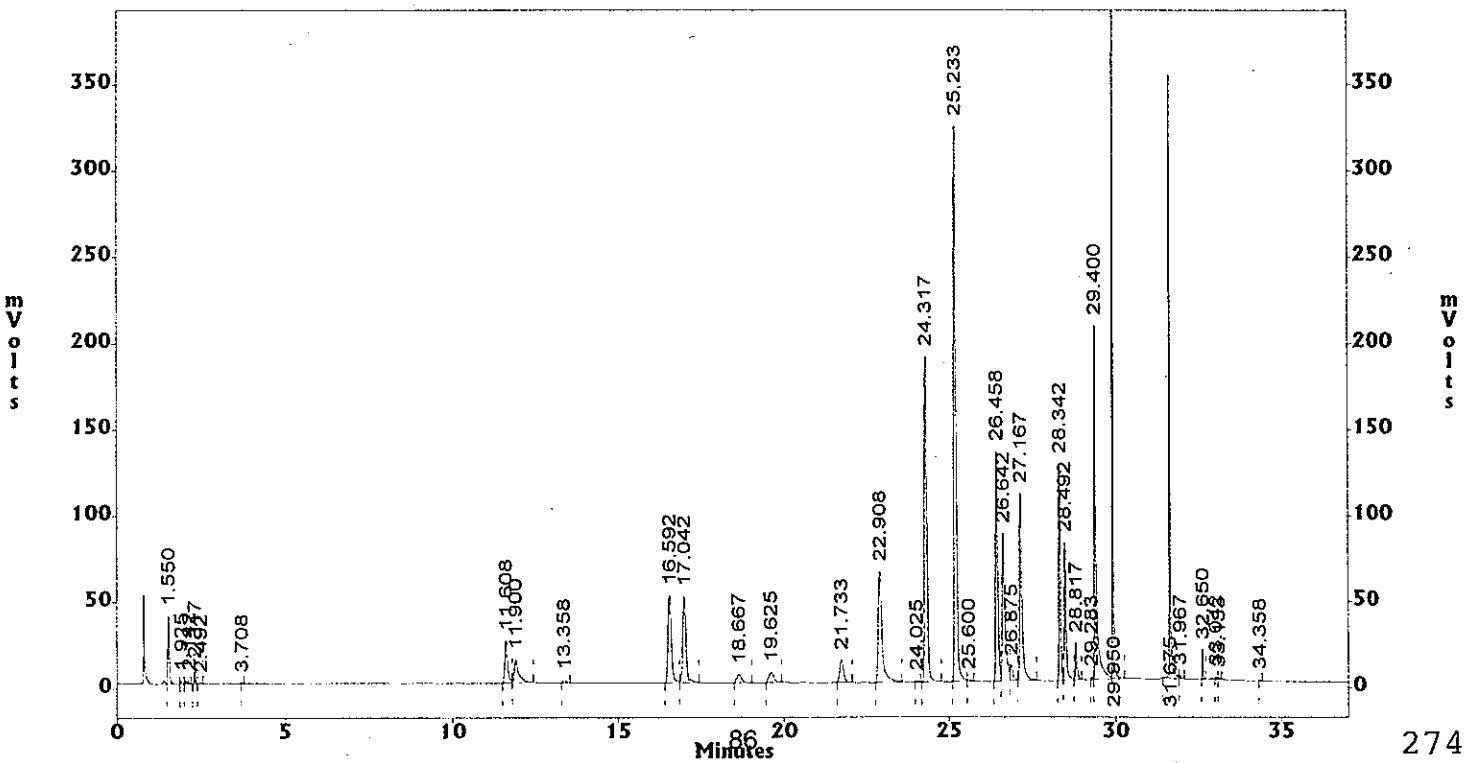
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##04g3762,s ccv
Acquired : Oct 19, 2004 09:42:41
Printed : Oct 20, 2004 15:06:18
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
1	1	Dalapon	1.55	122923	39393	0.129749	240.06
7	2	3,5-Di-Cl-Bz acid	11.61	144777	24394	0.125046	293.37
8	3	4-Nitrophenol	11.90	119397	13115	0.070732	427.72
10	4	DCAA(Surr)	16.59	360831	50890	0.073885	1237.46
11	5	Dicamba	17.04	343733	49931	0.353447	246.42
12	6	MCPP(ppm)	18.67	44685	4819	0.179235	63.17
13	7	MCPA(PPm)	19.63	59187	6046	0.343572	43.65
14	8	Dichloroprop	21.73	97987	12874	0.099712	249.00
15	9	2,4-D (m)	22.91	517359	64136	0.101099	1296.66
17	10	DBOB (IS)	24.32	986635	189175	1.000000	250.00
18	11	Pentachlorphenol	25.23	1493078	322208	1.555308	243.25
20	12	Silvex (m)	26.46	567169	133786	0.558710	257.22
21	13	Chloramben	26.64	458914	86080	0.444269	261.74
23	14	2,4,5-T (m)	27.17	545147	108838	0.534963	258.21
24	15	Dinoseb	28.34	406237	126120	0.419514	245.37
25	16	2,4-DB	28.49	282770	80348	0.056452	1269.23
26	17	Bentazon	28.82	76838	21663	0.079392	245.23
28	18	Picloram	29.40	781337	205627	0.745522	265.56
29	19	DCPA	29.95	817325	387926	0.763057	271.41
30	20	Acifluorfen	31.67	684205	349908	0.710861	243.89

c:\data\2004\0410\8151t\04g3762\3762g.q01 -- Channel A

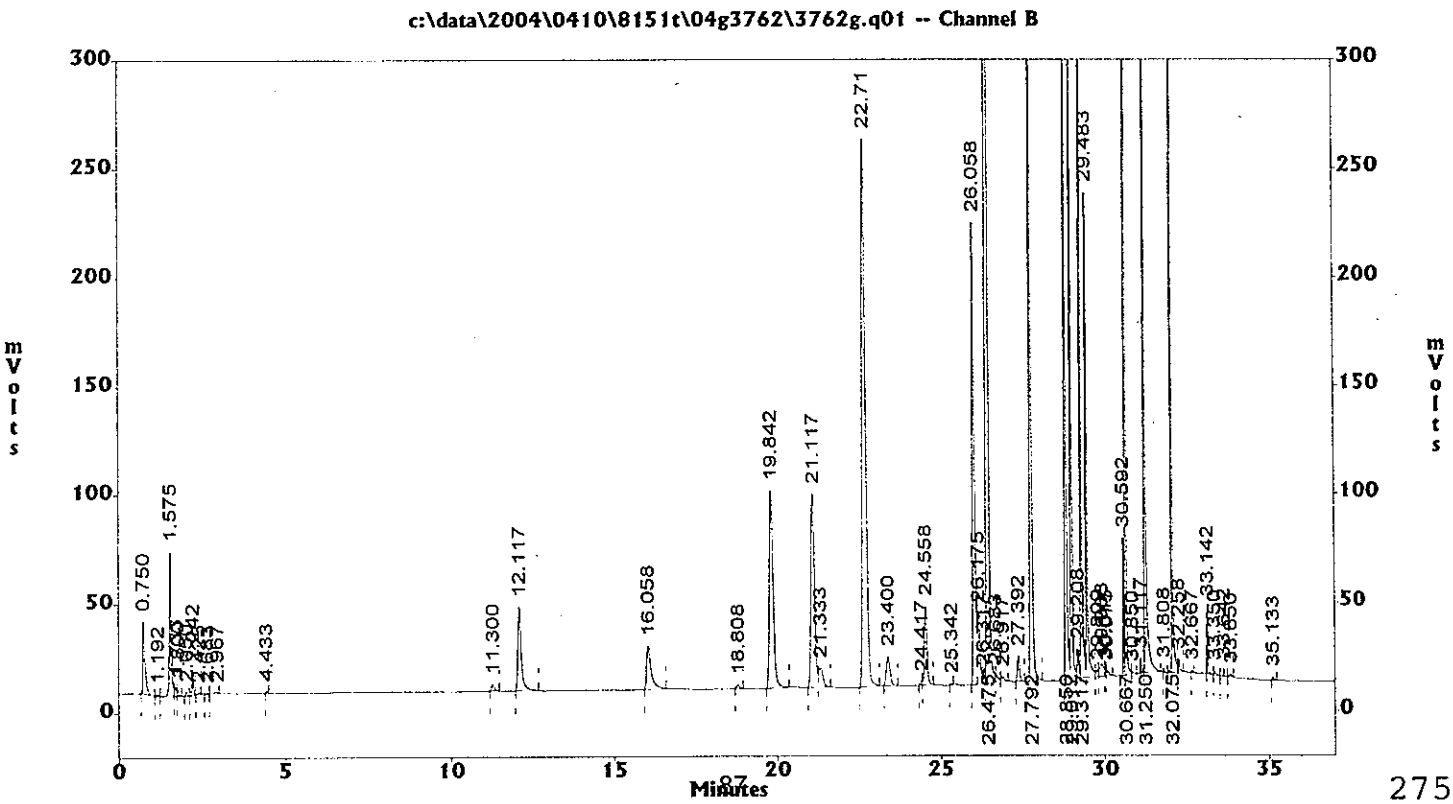


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.q01
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : ##04g3762,s ccv
Acquired : Oct 19, 2004 09:42:41
Printed : Oct 20, 2004 15:06:18
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1	Dalapon	1.58	265199	66328	0.159073	220.74
13	2	3,5-Di-Cl-Bz acid	12.12	279757	38507	0.140157	264.28
14	3	4-Nitrophenol	16.06	189654	20025	0.073447	341.89
16	4	DCAA (surr)	19.84	729435	90854	0.085575	1128.60
17	5	Dicamba	21.12	676780	89010	0.377820	237.17
18	6	MCPP (ppm)	21.33	80682	8898	0.224210	47.65
19	7	DBOB (IS)	22.72	1888158	252234	1.000000	250.00
20	8	MCPA (ppm)	23.40	109114	13546	0.438923	32.92
22	9	Dichloroprop	24.56	210794	36550	0.112632	247.80
24	10	2,4-D (m)	26.06	937786	213167	0.105689	1174.83
27	11	Pentachlorphenol	26.48	2907457	680080	1.620643	237.53
31	12	Silvex (m)	27.79	1163667	304508	0.623829	246.98
32	13	2,4,5-T (m)	28.85	1042858	344647	0.541272	255.10
33	14	Dinoseb	29.02	884509	313833	0.496953	235.66
35	15	Chloramben	29.32	942209	331894	0.484770	257.34
36	16	2,4-DB	29.48	611789	223547	0.064394	1257.93
41	17	Bentazon	30.59	124970	63482	0.068965	239.93
42	18	DCPA	30.67	1600262	798746	0.782016	270.94
45	19	Picloram	31.25	1588562	741745	0.820557	256.33
47	20	Acifluorfen	32.08	1349042	736351	0.718754	248.51



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3762.sqq
Method: c:\ezchrom\methods\8151-063.t00
User: System

Check Standard File: c:\data\2004\0410\8151t\04g3762\3762g.q01
ID: ##04g3762,s ccv -- Oct 19, 2004 09:42:41
Printed: Oct 28, 2004 12:13:25

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	240.055	3.978	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	293.369	17.347	15.000	Failed
3 4-Nitrophenol	250.000	427.724	71.090	15.000	Failed
4 DCAA(Surr)	1200.000	1237.456	3.121	15.000	Passed
5 Dicamba	250.000	246.423	1.431	15.000	Passed
6 MCPP(ppm)	25.000	63.172	152.686	15.000	Failed
7 MCPA(PPm)	25.000	43.651	74.603	15.000	Failed
8 Dichloroprop	250.000	249.002	0.399	15.000	Passed
9 2,4-D (m)	1250.000	1296.662	3.733	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	243.248	2.701	15.000	Passed
12 Silvex (m)	250.000	257.223	2.889	15.000	Passed
13 Chloramben	250.000	261.739	4.696	15.000	Passed
14 2,4,5-T (m)	250.000	258.210	3.284	15.000	Passed
15 Dinoseb	250.000	245.367	1.853	15.000	Passed
16 2,4-DB	1250.000	1269.228	1.538	15.000	Passed
17 Bentazon	250.000	245.235	1.906	15.000	Passed
18 Picloram	250.000	265.559	6.224	15.000	Passed
19 DCPA	250.000	271.407	8.563	15.000	Passed
20 Acifluorfen	250.000	243.885	2.446	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	220.738	11.705	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	264.282	5.713	15.000	Passed
3 4-Nitrophenol	250.000	341.890	36.756	15.000	Failed
4 DCAA (surr)	1200.000	1128.599	5.950	15.000	Passed
5 Dicamba	250.000	237.172	5.131	15.000	Passed
6 MCPP (ppm)	25.000	47.646	90.583	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	32.915	31.660	15.000	Failed
9 Dichloroprop	250.000	247.798	0.881	15.000	Passed
10 2,4-D (m)	1250.000	1174.831	6.014	15.000	Passed
11 Pentachlorphenol	250.000	237.535	4.986	15.000	Passed
12 Silvex (m)	250.000	246.982	1.207	15.000	Passed
13 2,4,5-T (m)	250.000	255.101	2.040	15.000	Passed
14 Dinoseb	250.000	235.662	5.735	15.000	Passed
15 Chloramben	250.000	257.344	2.937	15.000	Passed

16 2,4-DB	1250.000	1257.929	0.634	15.000	Passed
17 Bentazon	250.000	239.926	4.029	15.000	Passed
18 DCPA	250.000	270.943	8.377	15.000	Passed
19 Picloram	250.000	256.328	2.531	15.000	Passed
20 Acifluorfen	250.000	248.512	0.595	15.000	Passed

Signature _____

FORM-7B

Applied P & CH Laboratories

CCV Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No.:		Lab Code:	APCL
Case No:		SAS No.:		Service ID:	44824
Project ID:	BBDA4	Project No.:	175141	Instrument	T
		Batch No.:	04G3762	Sequence No.	04G3762
CCV File:	3762G.Q02	Date Analyzed:	10/19/2004	Time Analyzed:	19:08

Target Components (Channel-A Column: DB-608)

#	Component Name	Unit	Expe-cted	Test Result	Rec. %	Dev. %	Flag	Control Limit, %	by
1	2,4-D	µg/L	1250	1300	104	4	√	85-115	CCV
2	2,4 DB	µg/L	1250	1240	99	-1	√	85-115	CCV
3	DALAPON	µg/L	250	228	91	-9	√	85-115	CCV
4	DICAMBA	µg/L	250	245	98	-2	√	85-115	CCV
5	DICHLOROPROP	µg/L	250	249	100	0	√	85-115	CCV
6	DINOSEB (DNBP)	µg/L	250	243	97	-3	√	85-115	CCV
7	MCPA	µg/L	25	43.7	175	75	X	85-115	CCV
8	MCPP	µg/L	25	62.6	251	151	X	85-115	CCV
9	2,4,5-T	µg/L	250	261	104	4	√	85-115	CCV
10	2,4,5-TP (SILVEX)	µg/L	250	257	103	3	√	85-115	CCV
					Total CCV Out of Control		2		

Surrogate Components (Channel-A Column: DB-608)

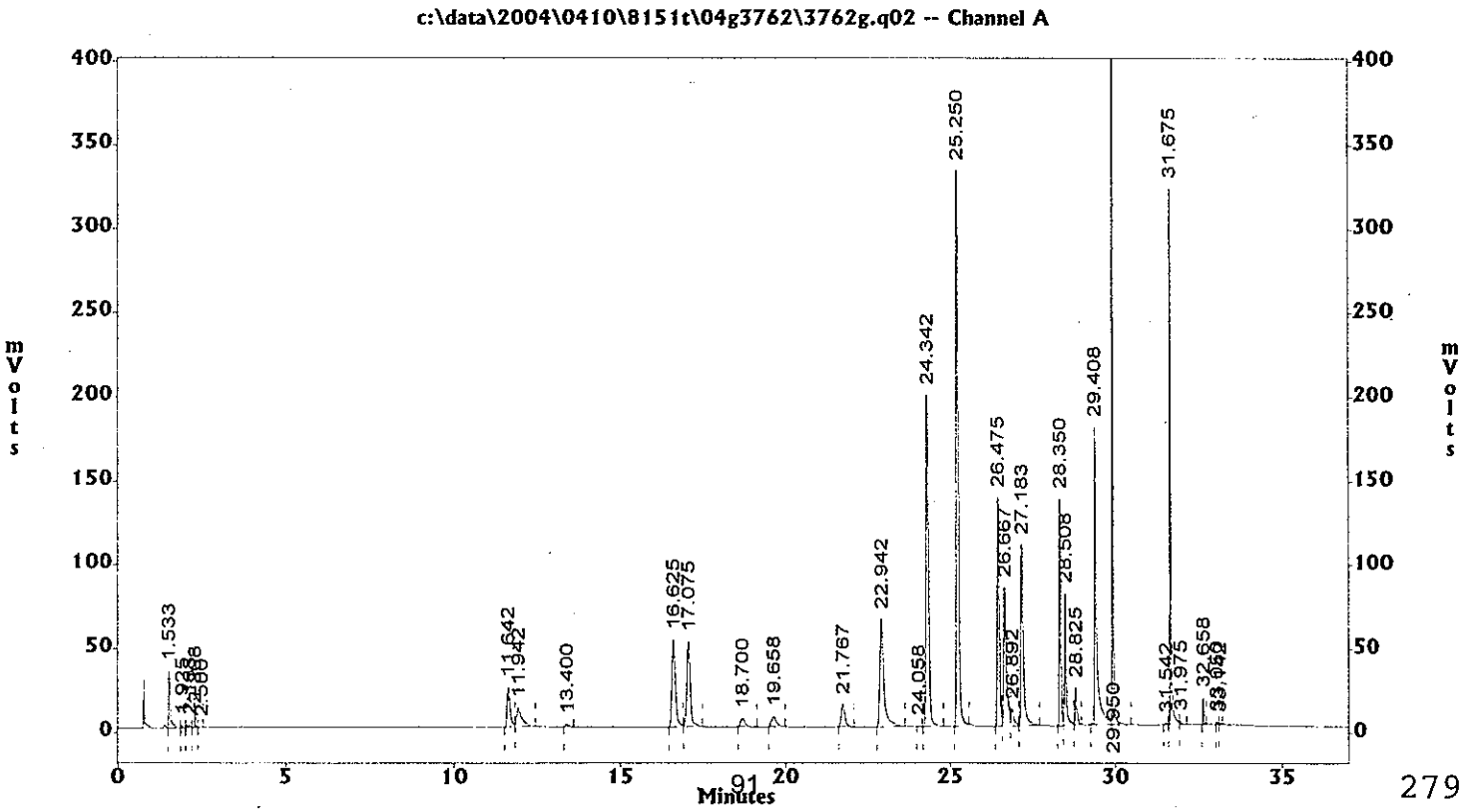
1	2,4-DICHLOROPHENYLACETIC ACID	µg/L	1200	1250	104	4	√	85-115	CCV
					Total Surrogate Out of Control		0		

Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.q02
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : CCV GC16249
Acquired : Oct 19, 2004 19:08:20
Printed : Oct 20, 2004 15:02:15
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
1	1	Dalapon	1.53	123130	34131	0.129749	227.96
6	2	3,5-Di-Cl-Bz acid	11.64	152772	23853	0.125046	293.48
7	3	4-Nitrophenol	11.94	117455	11078	0.070732	398.90
9	4	DCAA(Surr)	16.63	383343	52360	0.073885	1246.33
10	5	Dicamba	17.08	359931	51001	0.353447	244.62
11	6	MCPP(ppm)	18.70	46730	4929	0.179235	62.63
12	7	MCPA(PPm)	19.66	62481	6155	0.343572	43.69
13	8	Dichloroprop	21.77	103461	13376	0.099712	249.25
14	9	2,4-D (m)	22.94	547537	64483	0.101099	1300.98
16	10	DBOB (IS)	24.34	1040724	197998	1.000000	250.00
17	11	Pentachlorphenol	25.25	1574503	331299	1.555308	243.18
18	12	Silvex (m)	26.48	598857	136802	0.558710	257.48
19	13	Chloramben	26.67	464135	82987	0.444269	250.96
21	14	2,4,5-T (m)	27.18	580336	108115	0.534963	260.59
22	15	Dinoseb	28.35	425084	135657	0.419514	243.41
23	16	2,4-DB	28.51	290543	78976	0.056452	1236.34
24	17	Bentazon	28.83	80018	22219	0.079392	242.11
25	18	Picloram	29.41	781112	177616	0.745522	251.69
26	19	DCPA	29.95	867339	397195	0.763057	273.05
28	20	Acifluorfen	31.67	672485	319693	0.710861	227.25

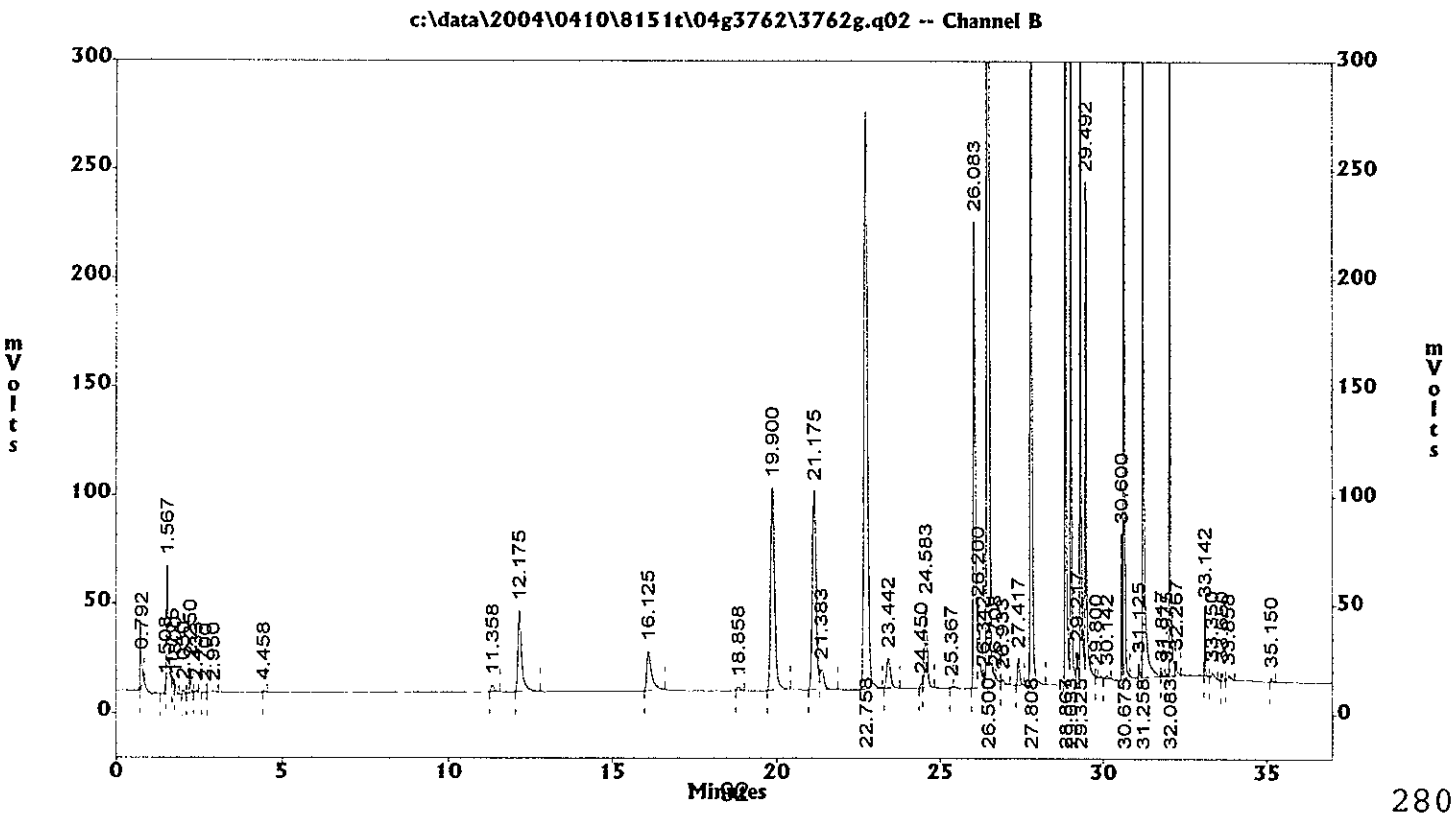


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0410\8151t\04g3762\3762g.q02
Method : c:\ezchrom\methods\8151-063.t00
Sample ID : CCV GC16249
Acquired : Oct 19, 2004 19:08:20
Printed : Oct 20, 2004 15:02:16
User : System

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
3	1 Dalapon	1.57	254149	58971	0.159073	201.34
13	2 3,5-Di-Cl-Bz acid	12.18	292275	36872	0.140157	262.79
14	3 4-Nitrophenol	16.13	182113	18076	0.073447	312.47
16	4 DCAA (surr)	19.90	763670	92867	0.085575	1124.60
17	5 Dicamba	21.17	711628	91586	0.377820	237.36
18	6 MCPP (ppm)	21.38	85732	9304	0.224210	48.19
19	7 DBOB (IS)	22.76	1983812	265435	1.000000	250.00
20	8 MCPA (ppm)	23.44	113447	13737	0.438923	32.57
22	9 Dichloroprop	24.58	220825	38205	0.112632	247.07
24	10 2,4-D (m)	26.08	978154	214413	0.105689	1166.32
27	11 Pentachlorphenol	26.50	3079471	720787	1.620643	239.46
31	12 Silvex (m)	27.81	1230882	303602	0.623829	248.65
32	13 2,4,5-T (m)	28.87	1084931	344556	0.541272	252.60
33	14 Dinoseb	29.03	922839	326522	0.496953	234.02
35	15 Chloramben	29.33	959754	338362	0.484770	249.50
36	16 2,4-DB	29.49	634025	228698	0.064394	1240.79
39	17 Bentazon	30.60	128443	66825	0.068965	234.70
40	18 DCPA	30.67	1655139	856391	0.782016	266.72
42	19 Picloram	31.26	1622642	683722	0.820557	249.20
45	20 Acifluorfen	32.08	1359739	702980	0.718754	238.40



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g3762.sqq
Method: c:\ezchrom\methods\8151-063.t00
User: System

Check Standard File: c:\data\2004\0410\8151t\04g3762\3762g.q02
ID: CCV GC16249 -- Oct 19, 2004 19:08:20
Printed: Oct 28, 2004 12:14:13

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	227.962	8.815	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	293.480	17.392	15.000	Failed
3 4-Nitrophenol	250.000	398.899	59.559	15.000	Failed
4 DCAA(Surr)	1200.000	1246.333	3.861	15.000	Passed
5 Dicamba	250.000	244.624	2.150	15.000	Passed
6 MCPP(ppm)	25.000	62.629	150.517	15.000	Failed
7 MCPA(PPm)	25.000	43.685	74.741	15.000	Failed
8 Dichloroprop	250.000	249.249	0.301	15.000	Passed
9 2,4-D (m)	1250.000	1300.976	4.078	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	243.182	2.727	15.000	Passed
12 Silvex (m)	250.000	257.479	2.991	15.000	Passed
13 Chloramben	250.000	250.959	0.384	15.000	Passed
14 2,4,5-T (m)	250.000	260.591	4.237	15.000	Passed
15 Dinoseb	250.000	243.407	2.637	15.000	Passed
16 2,4-DB	1250.000	1236.339	1.093	15.000	Passed
17 Bentazon	250.000	242.111	3.156	15.000	Passed
18 Picloram	250.000	251.685	0.674	15.000	Passed
19 DCPA	250.000	273.046	9.219	15.000	Passed
20 Acifluorfen	250.000	227.249	9.100	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	201.341	19.464	15.000	Failed
2 3,5-Di-Cl-Bz acid	250.000	262.795	5.118	15.000	Passed
3 4-Nitrophenol	250.000	312.467	24.987	15.000	Failed
4 DCAA (surr)	1200.000	1124.596	6.284	15.000	Passed
5 Dicamba	250.000	237.360	5.056	15.000	Passed
6 MCPP (ppm)	25.000	48.187	92.747	15.000	Failed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	32.572	30.288	15.000	Failed
9 Dichloroprop	250.000	247.073	1.171	15.000	Passed
10 2,4-D (m)	1250.000	1166.317	6.695	15.000	Passed
11 Pentachlorphenol	250.000	239.457	4.217	15.000	Passed
12 Silvex (m)	250.000	248.651	0.540	15.000	Passed
13 2,4,5-T (m)	250.000	252.596	1.038	15.000	Passed
14 Dinoseb	250.000	234.019	6.393	15.000	Passed
15 Chloramben	250.000	249.496	0.201	15.000	Passed

16 2,4-DB	1250.000	1240.791	0.737	15.000	Passed
17 Bentazon	250.000	234.704	6.118	15.000	Passed
18 DCPA	250.000	266.722	6.689	15.000	Passed
19 Picloram	250.000	249.203	0.319	15.000	Passed
20 Acifluorfen	250.000	238.405	4.638	15.000	Passed

Signature _____

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation Logbook

Batch # 04G3762 Matrix: S Target method: 8151A EXT Method: 8151A Date: 10-15-04

Solvent: Ether Lot # 041048-15 Exchange Solvent: Hexane Lot # S-1870 ; Analyst: KT

Lot #: Surr.: GC- 16435 Conc.: 20.00ppm Na_2SO_4: SP 1222 ☐ Sonicator Tune

Op. #	Sample Type	Sample ID #	Smpl Amnt (mL or g)	Surr. Vol mL	Extract sub-ID	Final Vol. mL	Dilution $F=V/X$	pH	Note & Anomaly
2021	MB	04G3762MB	50.00	1.00	8151A	10.00	0.20		
2022	LCS	-L01	50.00	|	|	|	|		
2023	LCSD	-J01	50.00	|	|	|	|		
2024	Sample-1	04-4798-1	25.00	0.50	|	5.00	|		
2025	MS			10-15-04					
2026	MSD				10				
2027	Sample-2	04-4804-1	50.00	1.00	8151A	10.00	0.20		
2028	Sample-3	-2	50.00	|	|	|	|		
2029	Sample-4								
2030	Sample-5								
2031	Sample-6								
2032	Sample-7								
2033	Sample-8								
2034	Sample-9								
2035	Sample-10								
2036	Sample-11								
2037	Sample-12								
2038	Sample-13								
2039	Sample-14								
2040	Sample-15								
2041	Sample-16								
2042	Sample-17								
2043	Sample-18								
2044	Sample-19								
2045	Sample-20								
2046	MTX Dup.								
2047	LCS′								
2048	LCSD′								
2049	MS′								
2050	MSD′								

10-15-04 KT

Type	Op #	STD Lot #	C_{std}(ppm)×V_{std}(mL)/X(g or mL)= T	Op #	STD Lot #	C_{std}(ppm)×V_{std}(mL)/X(g or mL)= T
LCS/LCSD	2022	GC-16441	1000 × 2.5 × 1.00 /X= ppb	2023	GC-16441	1000 × 2.5 × 1.00 /X= ppb
MS/MSD		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
LCS′/LCSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
MS′/MSD′		GC-	1000 × × /X=95 ppb		GC-	1000 × × /X= 283 ppb

Supervisor Initial

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation

Extraction method: **1** 3510–separate funnel; **2** 3520–L-L continue extraction; **3** 3550–Ultrasonic; **4** LUFT–Shaker; **5** 3540–Soxhlet; **6** Solid phase Extraction; **7** Microextraction; **8** SFE; **9** Dilution; **10** Concentration; **11** Other, specify.

Service ID: 04-4798 **Batch #** 0463762 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by LJ Date 10/15/04 Surro Lot GC-16435 Conc. 20.0 ppm
LCS Lot GC-16441 Conc. 2.5 ppm MS Lot GC-16441 Conc. 2.5 ppm
Ext. solv. Ether Lot # 044108-15 Exchage solv. Hexane Lot # C-1870

Sample ID	-1001	-2001	-3001	-1				
Sample Matrix	S →							
Sample Amount, X (g/mL)	50.00	50.00	50.00	25.00				
Any TCLP, EP, WET, SPLP ?								
Surr. STD used, mL	1.00 →			0.50				
Spike STD used, mL								
[Extracted at pH]	<2 / >12 →				/	/	/	/
Solvent amount, mL	3 x 60 →				x	x	x	x
Final volume, V, mL	10.00 →			5.00				
Extraction DF $f_e = V/X$	0.20 →							
Sub-ID of extracts	8151A →							
Anomaly Footnote† :								

Sample Cleanup

Op. by ____ Date / / (For details, see Cleanup worksheet)

Cleanup method:								
Cleanup DF, f_c								
Preparation DF, $f_1 = f_e\ f_c$								

Pre-injection*:

Op. by JN Date 10/19/04 IS Lot : GC- ____ Conc. ____ pp

2nd dilution, f_2 (1)								
V_t, μL (40)								
Single Extract GC, GC/MS Analysis:								
$V_2 = V_t/f_2$, μL (40/f_2)								
$V_{solvent} = V_t - V_2$, μL								
Double Extract GC, GC/MS Analysis:								
$V_> = \frac{1}{2}V_t/f_2$, μL (20/f_2)								
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL ($\frac{20}{f_2}\frac{f_<}{f_>}$)								
$V_{solvent} = V_t - V_> - V_<$								
IS volume, μL (10)								
Final Conc. of IS (40 ppm)								
Total $F = 2\ f_1\ f_>$ or $f_1\ f_2$	0.2 →							

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

APCL form 7-122 (old 5-110), Ver. 3.0 April 5, 1996. No pencil. Use blue pen for record. Use red pen for correction.
File: [CUST.DOC.GC]EXTRACTION.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation

Extraction method: **1** 3510–separate funnel; **2** 3520–L-L continue extraction; **3** 3550–Ultrasonic; **4** LUFT–Shaker; **5** 3540–Soxhlet; **6** Solid phase Extraction; **7** Microextraction; **8** SFE; **9** Dilution; **10** Concentration; **11** Other, specify.

Service ID: 04-4824 Batch # 046 3762 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by ICP Date 10/15/04 Surro Lot GC-16435 Conc. 20.0 ppm
LCS Lot GC-16441 Conc. 2.5 ppm MS Lot GC-16441 Conc. 2.5 ppm
Ext. solv. Ether Lot # 044108-15 Exchage solv. Hexane Lot # C-1870

Sample ID	-1	-2				
Sample Matrix	S →					
Sample Amount, X (g/mL)	50.00	10.00				
Any TCLP, EP, WET, SPLP ?						
Surr. STD used, mL	1.00 →					
Spike STD used, mL						
[Extracted at pH]	<2, >12 →		/	/	/	/	/	/
Solvent amount, mL	3 × 60 →		×	×	×	×	×	×
Final volume, V, mL	10.00 →					
Extraction DF $f_e = V/X$	0.20 →					
Sub-ID of extracts	8151A →					
Anomaly Footnote† :						

Sample Cleanup

Op. by _____ Date / / (For details, see Cleanup worksheet)

Cleanup method:						
Cleanup DF, f_c						
Preparation DF, $f_1 = f_e\ f_c$						

Pre-injection*:

Op. by JN Date 10/19/04 IS Lot : GC- _____ Conc. _____ pp

2nd dilution, f_2 (1)						
V_t, μL (40)						
Single Extract GC, GC/MS Analysis:						
$V_2 = V_t/f_2$, μL (40/f_2)						
$V_{solvent} = V_t - V_2$, μL						
Double Extract GC, GC/MS Analysis:						
$V_> = \frac{1}{2}V_t/f_2$, μL (20/f_2)						
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL ($\frac{20}{f_2}\frac{f_<}{f_>}$)						
$V_{solvent} = V_t - V_> - V_<$						
IS volume, μL (10)						
Final Conc. of IS (40 ppm)						
Total $F = 2\ f_1\ f_>$ or $f_1\ f_2$	0.2 →					

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Analysis Anomaly Record

Batch #: 04G 3762 Method: 8151A Matrix: S Date: 10-15-04

Samples Involved: _____

- **Anomaly for MS/MSD/MD**
  - ☐ 1. MS/MSD out of control limit, sample matrix interference suspected
  - ☐ 2. MS or MSD out of control limit, but $\overline{MS}$ is O.K.
  - ☐ 3. One of MS/MSD, and $\overline{MS}$ out of control limit, but not enough sample for re-analysis
  - ☒ 4. Not enough sample for MS/MSD, LCS/LCSD may be used.
  - ☐ 5. Spiked samples contain high concentration of analytes (>4 × spiked concentration)
  - ☐ 6. MS/MSD out of control limit, but post spike is O.K.
  - ☐ 7. MS/MSD out of control limit, due to the heterogenous matrix
  - ☐ 8. MS/MSD out of control limit, due to the very special matrix
  - ☐ 9. Not enough sample for matrix duplicate (MD)
- **Anomaly for Holding time (HT)**
  - ☐ 10. HT has been exceeded when received, authorized by the Client to carry on with the analyses
  - ☐ 11. Extraction HT was passed, authorized by the Client to carry on with the analyses
  - ☐ 12. Analysis HT was passed, authorized by the Client to carry on with the analyses
- **Surrogates Anomaly**
  - ☐ 13. Surrogate recovery out of control limit (see Level-1 Part III), sample matrix interference suspected
  - ☐ 14. Surrogate recovery out of control limit (see Level-1 Part III), but not enough sample for re-analysis
  - ☐ 15. Surrogate recovery out of control limit, due to very special matrix
  - ☐ 16. Surrogate diluted out (for highly contaminated samples)
  - ☐ 17. Lower surrogate recovery due to cleanup process
- **Chromatogram Pattern Anomaly**
  - ☐ 18. Not a typical gasoline chromatogram pattern
  - ☐ 19. Not a typical diesel chromatogram pattern
  - ☐ 20. Not a typical diesel chromatogram pattern, but similar to heavy-oil or motor oil
  - ☐ 21. Not a typical kerosene chromatogram pattern
  - ☐ 22. Not a typical jet fuel chromatogram pattern
  - ☐ 23. Not a complete PCB chromatogram pattern, interference/degration suspected
- **Other anomaly**

Problem Description: _____

Reason: _____

Analyst: KD Date: 10-15-04

Note: _____

APCL form 4-116 , Ver. 2.0 July. 1, 1995 No pencil. Use blue pen for record. Use red pen for correction.

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation Logbook

Batch # 04G3762 Matrix: S Target method: 8151A EXT Method: 8151A Date: 10-15-04

Solvent: Ether Lot # 041086-15 Exchange Solvent: Hexane Lot # 5-1870 ; Analyst: KT

Lot #: Surr.: GC- 16435 Conc.: 20.00ppm Na_2SO_4: SP 1222 ☐ Sonicator Tune

Op. #	Sample Type	Sample ID #	Smpl Amnt (mL or g)	Surr. Vol (mL)	Extract sub-ID	Final Vol. mL	Dilution $F=V/X$	pH	Note & Anomaly
2021	MB	04G3762MB	50.00	1.00	8151A	10.00	0.20		
2022	LCS	-L01	50.00						
2023	LCSD	-J01	50.00						
2024	Sample-1	04-4798-1	25.00	0.50		5.00			
2025	MS								
2026	MSD								
2027	Sample-2	04-4824-1	50.00	1.00	8151A	10.00	0.20		
2028	Sample-3	-2	50.00						
2029	Sample-4								
2030	Sample-5								
2031	Sample-6								
2032	Sample-7								
2033	Sample-8								
2034	Sample-9								
2035	Sample-10								
2036	Sample-11								
2037	Sample-12								
2038	Sample-13								
2039	Sample-14								
2040	Sample-15								
2041	Sample-16								
2042	Sample-17								
2043	Sample-18								
2044	Sample-19								
2045	Sample-20								
2046	MTX Dup.								
2047	LCS′								
2048	LCSD′								
2049	MS′								
2050	MSD′								

10-15-04 KT

Type	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$
LCS/LCSD	2022	GC-16441	1000 × 2.5 × 1.00 /X= ppb	2023	GC-16441	1000 × 2.5 × 1.00 /X= ppb
MS/MSD		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
LCS′/LCSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
MS′/MSD′		GC-	1000 × × /X=99 ppb		GC-	1000 × × /X= 287 ppb

Supervisor Initial

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Sequence # 0463762 Starting Date: 10/19/04 Time 10:10 Analyst: DN

Seq. type: ☐ Cal. ☑ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path: c:/data/2004/0410/8151/0463762

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
4841	0463762	S	CCV	3762g.g01	8151-063.100		1		3762g.g01	✓	
4842			MB	.K01			0.2		.K01		
4843			4788	~~4789~~-1			0.2	4788	~~4789~~.001		
4844			DN 10/20/04	4824-1			0.2	DN 10/20/04	4824.001		
4845				-2			0.2		.002		
4846			LCS	3762g.l01			0.2		3762g.l01		
4847			LCSD	.j01			0.2		.j01		
4848			CCV	.g02			1		.g02		6416249
4849											
4850											
4851											
4852											
4853											
4854											
4855											
4856											
4857											
4858											
4859											
4860											
4861											
4862											
4863											
4864											
4865											
4866											
4867											
4868											
4869											
4870											

DN 10/20/04

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing. Time for SP (e.g. DFTPP) must be recorded.

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Semi-VOC Analysis Logbook

Sequence # 0363116 Starting Date: 7/8/03 Time 13:43 Analyst: RG

Seq. type: ☑ Cal. ☐ Int. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study Datafile Path C:\dcfg\2003\0307\8151C\0363116

Routine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

Op. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
3369			Ical	50 ppb	8151-063.t00		1		8151-063.050	✓	GC15411
3370				100					100		GC15412
3371				250					250		GC15413
3372				400					400		GC15414
3373				500					500		GC15415
3374	0363116	S	ICV/CCV	3116g.S01					3116g.S01		GC14184
3375			wb	k01			0.2		k01		
3376				3888-1					3888.001		
3377				-2					002		
3378				-4					004		
3379				-5					005		
3380				-6					006		
3381			CCV	3116g.S02			1		3116g.S02		GC15413
3382				3888-8			0.2		3888.008		
				-9					009		
3384				-10					010		
3385				-11					011		
3386				-12					012		
3387				-13					013		
3388				-3					003		
3389			CCV	3116g.S03			1		3116g.S03		GC15413
3390				3888-7			0.2		3888.007		
3391			Lcsd	3116g.J01					3116g.J01		
3392			Lcs	L01					L01		
3393	0363264	S	wb	3264g.k01			0.2		3264g.k01		
3394			Lcs	L01					L01		
3395			Lcsd	J01					J01		
3396				4049-1					4049.001		
3397				-2					002		
3398			CCV	3116g.S04			1		3116g.S04		GC15413

Footnote/Anomaly: END RG 7/9/03

*Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.
Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.
† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).
†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

Level D Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

Applied P & CH Laboratories

Wet Analysis Results for Method ASTM-D2216

Client Name:	Curtis & Tompkins	Project No:	175141	Anal. Method	ASTM-D2216
Project ID:	BBDA4	Service ID:	44824	Collected by:	

Component Name: Moisture
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
04-4824-1	BB4EX100[0.5]	Soil	10/07/04	10/08/04	10/11/04	04W4202	%Moisture	0.5	1.3	
04-4824-2	DUP100704A	Soil	10/07/04	10/08/04	10/11/04	04W4202	%Moisture	0.5	1.2	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 04-4824

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	04W4202	10/11/04	04-4820-01	%moisture	9.52	9.43	1	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

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14760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 04W4176 SOP: G-86
Date 10/7/04 Analyst [illegible]

Batch # 04W4202 SOP: G-86
Date 10/11/04 Analyst [illegible]

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%
JA Smpl-1	4804-1	22.76	36.98	35.91	7.53	1/12 Smpl-1	4820-1	22.98	37.37	36.00	9.52
H65 Smpl-2	-2	22.48	48.91	42.56	24.03	85-3 Smpl-2	-2	20.93	34.06	33.01	8.00
86 Smpl-3	-3	23.27	39.45	36.58	17.74	IV Smpl-3	-3	21.17	31.86	31.13	6.83
SA Smpl-4	-4	22.30	35.47	33.78	12.83	V6 Smpl-4	4824-1	23.03	35.90	35.73	1.32
SH Smpl-5	-5	23.27	40.67	38.56	12.13	A6 Smpl-5	-2	22.05	36.48	36.31	1.18
TJ Smpl-6	-6	22.69	39.11	37.04	12.61	Smpl-6					
WW Smpl-7	-7	23.35	40.97	38.80	11.86	Smpl-7					
CV Smpl-8	-8	22.33	36.28	35.65	4.52	Smpl-8					
83 Smpl-9	-9	20.12	30.83	29.50	12.42	Smpl-9					
H30 Smpl-10	-10	25.34	36.73	35.46	11.15	Smpl-10					
87. Smpl-11	-11	21.14	31.47	29.98	14.43	Smpl-11					
Smpl-12						Smpl-12					
Smpl-13						Smpl-13					
Smpl-14						Smpl-14					
Smpl-15						Smpl-15					
Smpl-16						Smpl-16					
Smpl-17						Smpl-17					
Smpl-18						Smpl-18					
Smpl-19						Smpl-19					
Smpl-20						Smpl-20					
AJL MD	-1	22.42	37.26	36.04	8.22	PP MD	4820-1	22.62	35.56	34.34	9.43

Footnote/Anomaly:

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Balance Daily Calibration Worksheet

Weight Set S/N: 12006

Calib. Date	Lab Balance Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
10/6/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.00	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	
	A-02					B-03	1.00	10.00	200.01	✓✓✓	C-02	1.0001	9.9998	199.9997	✓✓✓	
	A-03					B-05	0.99	9.98	199.96	✓✓✓	C-					
	A-04					B-06	0.98	9.97	199.97	✓✓✓	C-					
	A-		10/6/04			B-07	1.00				C-					
	A-					B-		10/6/04			C-			10/6		
10/7/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	
	A-02					B-03	1.00	10.00	200.00	✓✓✓	C-02	1.0002	9.9999	200.0000	✓✓✓	
	A-03					B-05	1.00	10.00	200.01	✓✓✓	C-					
	A-04					B-06	0.98	9.97	199.98	✓✓✓	C-					
	A-		10/7/04			B-07	0.99	9.99	199.99	✓✓✓	C-		10/7/04			
	A-					B-		10/7/04			C-					
10/8/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	
	A-02					B-03	1.00	10.00	200.00	✓✓✓	C-02	1.0000	9.9999	199.9998	✓✓✓	
	A-03					B-05	1.00	10.01	200.01	✓✓✓	C-					
	A-04					B-06	0.99	9.99	199.98	✓✓✓	C-					
	A-		10/8/04			B-07	1.00	10.00	200.00	✓✓✓	C-		10/8/04			
	A-					B-		10/8/04			C-					
10/11/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	
	A-02					B-03	1.00	10.00	200.00	✓✓✓	C-02	1.0000	10.0001	200.0000	✓✓✓	
	A-03					B-05	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-06	0.99	9.99	200.00	✓✓✓	C-					
	A-		10/11/04			B-07	0.99	10.00	200.00	✓✓✓	C-		10/11/04			
	A-					B-		10/11/04			C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

APCL form 4-213, March 30, 1995. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.

File: [CUST.DOC.LAB]BAL_CAL.TEX Root-File: BAL_CAL_ROOT.TEX 1-Page-File: BAL_CAL1.TEX

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175141
Metals
Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
BB4EX100[0.5]	175141-001
BB4EX101[0.5]	175141-002
BB4EX102[0.5]	175141-003
BB4EX103[0.5]	175141-004
BB4EX104[0.5]	175141-005
BB4EX105[0.5]	175141-006
BB4EX106[0.5]	175141-007
DUP100704A	175141-009
BB4EX107[0.5]	175141-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/16/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
METALS (EPA 6010B AND EPA 7470A)

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for nine soil samples, requested for the above referenced project on 10/07/04. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7470A):

Low recoveries were observed for antimony in the MS/MSD for batch 95280; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for copper, nickel, and vanadium; the BS/BSD were within limits, and the associated RPDs were within limits.

Low recoveries were observed for copper, nickel, and antimony in the MS/MSD for batch 95280; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits.

Low recoveries were observed for many analytes in the MS/MSD for batch 95280; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits.

Low recoveries were observed for many analytes in the MS/MSD for batch 95280; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits.

Response exceeding the instrument's linear ranges were observed for iron, manganese, and zinc in the MS/MSD for batch 95280.

High % difference was observed for beryllium in the serial dilution for batch 95280.

No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2593.10
Project Manager\Contact: Sigrida Reinis
Samplers: Dustin Sutherland
Recorder (Signature Required): [signature]

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Pesticides	PCBs	VOCs	SVOCs	Hg	Chlor Herbicides	TPH d/fg	Metals					Silica gel clean-up	Hold	Remarks
-1 BB4Ex100[0.5]	5/10/04	1303		X						X		X	X	X	X	X	X	X	X					X		Analysis from bottom B.
-2 BB4Ex101[0.5]		1323		X						X		X							X							
-3 BB4Ex102[0.5]		1335		X						X		X							X							
-4 BB4Ex103[0.5]		1355		X						X		X							X							
-5 BB4Ex104[0.5]		1244		X						X		X							X							
-6 BB4Ex105[0.5]		1340		X						X		X							X							
-7 BB4Ex106[0.5]		1288		X						X		X							X							
-8 TB100704A		1400			X					X				X												
-9 DUP100704A		1304		X						X		X	X	X	X	X	X	X	X					X		DUP100704A
-10 BB4Ex107[0.5]		1352		X						X		X	X						X							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-7-04	1410	[signature]	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: On ice

B. Login Phase
Date Logged In: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Soil Cores in Plastic bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4. — Sample Dup 100704A on COC, Label Dup 1006044, ID'd by time.

REVISED

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III		10/8/10/14
(All samples)					to Level IV		
					(8081, PCB		
					8260, 8270		
					HG, T26/ICP		
					TEHM)		

Results & QC Summary

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX100[0.5]	Batch#:	95280
Lab ID:	175141-001	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.1	0.14	1.000
Arsenic	3.0	0.17	0.070	1.000
Barium	11	0.35	0.0094	1.000
Beryllium	0.13	0.070	0.0043	1.000
Cadmium	0.78	0.17	0.019	1.000
Chromium	51	0.35	0.023	1.000
Cobalt	5.3	0.70	0.054	1.000
Copper	3.7	0.35	0.039	1.000
Iron	14,000	17	5.1	5.000
Lead	2.5	0.10	0.045	1.000
Manganese	150	0.35	0.078	1.000
Molybdenum	ND	0.70	0.043	1.000
Nickel	22	0.70	0.046	1.000
Selenium	ND	0.17	0.12	1.000
Silver	ND	0.17	0.069	1.000
Thallium	ND	0.17	0.15	1.000
Vanadium	44	0.35	0.031	1.000
Zinc	20	0.70	0.12	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX101[0.5]	Batch#:	95280
Lab ID:	175141-002	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 5%

Analyte	Result	RL	MDL	Dilu Fac
Antimony	ND	2.9	0.20	1.000
Arsenic	3.1	0.24	0.097	1.000
Barium	18	0.49	0.013	1.000
Beryllium	0.13	0.097	0.0061	1.000
Cadmium	0.74	0.24	0.027	1.000
Chromium	40	0.49	0.033	1.000
Cobalt	5.5	0.97	0.075	1.000
Copper	5.0	0.49	0.056	1.000
Iron	14,000	24	7.2	5.000
Lead	10	0.15	0.063	1.000
Manganese	160	0.49	0.11	1.000
Molybdenum	ND	0.97	0.061	1.000
Nickel	22	0.97	0.065	1.000
Selenium	ND	0.24	0.17	1.000
Silver	ND	0.24	0.096	1.000
Thallium	ND	0.24	0.21	1.000
Vanadium	41	0.49	0.043	1.000
Zinc	24	0.97	0.17	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX102[0.5]	Batch#:	95280
Lab ID:	175141-003	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.1	0.14	1.000
Arsenic	3.2	0.18	0.072	1.000
Barium	17	0.36	0.0097	1.000
Beryllium	0.11	0.072	0.0044	1.000
Cadmium	0.75	0.18	0.020	1.000
Chromium	39	0.36	0.024	1.000
Cobalt	5.1	0.72	0.055	1.000
Copper	3.7	0.36	0.041	1.000
Iron	14,000	18	5.3	5.000
Lead	2.2	0.11	0.046	1.000
Manganese	150	0.36	0.080	1.000
Molybdenum	ND	0.72	0.044	1.000
Nickel	20	0.72	0.047	1.000
Selenium	ND	0.18	0.12	1.000
Silver	ND	0.18	0.071	1.000
Thallium	ND	0.18	0.15	1.000
Vanadium	42	0.36	0.032	1.000
Zinc	16	0.72	0.12	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX103[0.5]	Batch#:	95280
Lab ID:	175141-004	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.6	0.17	1.000
Arsenic	3.1	0.22	0.087	1.000
Barium	17	0.44	0.012	1.000
Beryllium	0.11	0.087	0.0055	1.000
Cadmium	0.72	0.22	0.024	1.000
Chromium	41	0.44	0.029	1.000
Cobalt	5.2	0.87	0.067	1.000
Copper	3.8	0.44	0.049	1.000
Iron	13,000	22	6.4	5.000
Lead	2.6	0.13	0.057	1.000
Manganese	140	0.44	0.097	1.000
Molybdenum	ND	0.87	0.055	1.000
Nickel	21	0.87	0.059	1.000
Selenium	ND	0.22	0.15	1.000
Silver	ND	0.22	0.086	1.000
Thallium	ND	0.22	0.18	1.000
Vanadium	42	0.44	0.039	1.000
Zinc	17	0.87	0.15	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX104[0.5]	Batch#:	95280
Lab ID:	175141-005	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 2%

Analyte	Result	RL	MDL	Dilu Fac
Antimony	ND	3.1	0.20	1.000
Arsenic	3.5	0.26	0.10	1.000
Barium	24	0.52	0.014	1.000
Beryllium	0.13	0.10	0.0064	1.000
Cadmium	0.86	0.26	0.029	1.000
Chromium	47	0.52	0.035	1.000
Cobalt	5.6	1.0	0.079	1.000
Copper	6.2	0.52	0.059	1.000
Iron	15,000	26	7.6	5.000
Lead	31	0.15	0.066	1.000
Manganese	190	0.52	0.11	1.000
Molybdenum	ND	1.0	0.064	1.000
Nickel	23	1.0	0.069	1.000
Selenium	ND	0.26	0.18	1.000
Silver	ND	0.26	0.10	1.000
Thallium	ND	0.26	0.21	1.000
Vanadium	42	0.52	0.046	1.000
Zinc	35	1.0	0.17	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX105[0.5]	Batch#:	95280
Lab ID:	175141-006	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.9	0.19	1.000
Arsenic	3.7	0.25	0.098	1.000
Barium	19	0.49	0.013	1.000
Beryllium	0.14	0.098	0.0062	1.000
Cadmium	0.91	0.25	0.027	1.000
Chromium	57	0.49	0.032	1.000
Cobalt	6.2	0.98	0.075	1.000
Copper	4.7	0.49	0.057	1.000
Iron	16,000	25	7.2	5.000
Lead	3.3	0.15	0.064	1.000
Manganese	170	0.49	0.11	1.000
Molybdenum	ND	0.98	0.062	1.000
Nickel	25	0.98	0.066	1.000
Selenium	ND	0.25	0.17	1.000
Silver	ND	0.25	0.097	1.000
Thallium	ND	0.25	0.21	1.000
Vanadium	54	0.49	0.043	1.000
Zinc	23	0.98	0.17	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX106[0.5]	Batch#:	95280
Lab ID:	175141-007	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.1	0.14	1.000
Arsenic	2.9	0.18	0.072	1.000
Barium	16	0.36	0.0097	1.000
Beryllium	0.14	0.072	0.0044	1.000
Cadmium	0.85	0.18	0.020	1.000
Chromium	53	0.36	0.024	1.000
Cobalt	5.8	0.72	0.055	1.000
Copper	4.5	0.36	0.041	1.000
Iron	16,000	18	5.3	5.000
Lead	10	0.11	0.046	1.000
Manganese	170	0.36	0.080	1.000
Molybdenum	ND	0.72	0.044	1.000
Nickel	24	0.72	0.047	1.000
Selenium	ND	0.18	0.12	1.000
Silver	ND	0.18	0.071	1.000
Thallium	ND	0.18	0.15	1.000
Vanadium	48	0.36	0.032	1.000
Zinc	28	0.72	0.12	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	DUP100704A	Batch#:	95280
Lab ID:	175141-009	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.5	0.17	1.000
Arsenic	3.1	0.21	0.085	1.000
Barium	12	0.42	0.011	1.000
Beryllium	0.14	0.085	0.0054	1.000
Cadmium	0.68	0.21	0.024	1.000
Chromium	50	0.42	0.028	1.000
Cobalt	5.2	0.85	0.065	1.000
Copper	3.2	0.42	0.048	1.000
Iron	13,000	21	6.3	5.000
Lead	2.2	0.13	0.055	1.000
Manganese	140	0.42	0.094	1.000
Molybdenum	ND	0.85	0.053	1.000
Nickel	23	0.85	0.057	1.000
Selenium	ND	0.21	0.15	1.000
Silver	ND	0.21	0.084	1.000
Thallium	ND	0.21	0.18	1.000
Vanadium	39	0.42	0.038	1.000
Zinc	19	0.85	0.14	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB4EX107[0.5]	Batch#:	95280
Lab ID:	175141-010	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.7	0.18	1.000
Arsenic	2.5	0.23	0.090	1.000
Barium	18	0.45	0.012	1.000
Beryllium	0.13	0.090	0.0057	1.000
Cadmium	0.53	0.23	0.025	1.000
Chromium	34	0.45	0.030	1.000
Cobalt	4.6	0.90	0.069	1.000
Copper	3.4	0.45	0.052	1.000
Iron	9,900	23	6.6	5.000
Lead	1.7	0.14	0.059	1.000
Manganese	180	0.45	0.10	1.000
Molybdenum	ND	0.90	0.057	1.000
Nickel	19	0.90	0.061	1.000
Selenium	ND	0.23	0.16	1.000
Silver	ND	0.23	0.089	1.000
Thallium	ND	0.23	0.19	1.000
Vanadium	29	0.45	0.040	1.000
Zinc	21	0.90	0.15	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267306	Batch#:	95280
Matrix:	Soil	Prepared:	10/08/04
Units:	mg/Kg	Analyzed:	10/08/04
Basis:	as received		

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	ND	0.25	0.10
Barium	ND	0.50	0.013
Beryllium	ND	0.10	0.0063
Cadmium	ND	0.25	0.028
Chromium	ND	0.50	0.033
Cobalt	ND	1.0	0.076
Copper	ND	0.50	0.057
Iron	ND	5.0	0.80
Lead	ND	0.15	0.065
Manganese	ND	0.50	0.11
Molybdenum	ND	1.0	0.062
Nickel	ND	1.0	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	ND	0.50	0.045
Zinc	ND	1.0	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/13/04
Diln Fac:	1.000	Analyzed:	10/13/04
Batch#:	95453		

Field ID	Type	Lab ID	Result	RL	MDL	Basis	Moisture
BB4EX100[0.5]	SAMPLE	175141-001	ND	0.019	0.0037	dry	1%
DUP100704A	SAMPLE	175141-009	ND	0.018	0.0035	dry	1%
	BLANK	QC268049	ND	0.020	0.0039	as received	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	95280
Units:	mg/Kg	Prepared:	10/08/04
Basis:	as received	Analyzed:	10/08/04
Diln Fac:	1.000		

Type: BS Lab ID: QC267307

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	98.50	99	75-125
Arsenic	50.00	46.60	93	75-125
Barium	100.0	97.00	97	75-125
Beryllium	2.500	2.460	98	75-125
Cadmium	10.00	8.550	86	75-125
Chromium	100.0	95.50	96	75-125
Cobalt	25.00	23.55	94	75-125
Copper	12.50	13.60	109	75-125
Iron	1,000	928.0	93	75-125
Lead	100.0	93.00	93	75-125
Manganese	25.00	23.95	96	75-125
Molybdenum	20.00	19.45	97	75-125
Nickel	25.00	22.20	89	75-125
Selenium	50.00	45.15	90	75-125
Silver	10.00	10.35	104	75-125
Thallium	50.00	45.30	91	75-125
Vanadium	25.00	24.80	99	75-125
Zinc	25.00	22.55	90	75-125

Type: BSD Lab ID: QC267308

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	104.0	104	75-125	5	30
Arsenic	50.00	48.30	97	75-125	4	30
Barium	100.0	100.0	100	75-125	3	30
Beryllium	2.500	2.550	102	75-125	4	30
Cadmium	10.00	8.850	89	75-125	3	30
Chromium	100.0	99.50	100	75-125	4	30
Cobalt	25.00	24.50	98	75-125	4	30
Copper	12.50	13.30	106	75-125	2	30
Iron	1,000	966.5	97	75-125	4	30
Lead	100.0	97.50	98	75-125	5	30
Manganese	25.00	24.90	100	75-125	4	30
Molybdenum	20.00	20.35	102	75-125	5	30
Nickel	25.00	23.05	92	75-125	4	30
Selenium	50.00	47.45	95	75-125	5	30
Silver	10.00	10.75	108	75-125	4	30
Thallium	50.00	47.45	95	75-125	5	30
Vanadium	25.00	25.80	103	75-125	4	30
Zinc	25.00	23.05	92	75-125	2	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	95453
Field ID:	BB4EX100[0.5]	Sampled:	10/07/04
MSS Lab ID:	175141-001	Received:	10/07/04
Matrix:	Soil	Prepared:	10/13/04
Units:	mg/Kg	Analyzed:	10/13/04
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim
BS	QC268050		0.5000	0.4600	92	75-125	as received			
BSD	QC268051		0.5000	0.4650	93	75-125	as received		1	35
MS	QC268052	0.006861	0.4765	0.4622	96	75-125	dry	1%		
MSD	QC268053		0.4430	0.4244	94	75-125	dry	1%	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	95280
MSS Lab ID:	174988-004	Sampled:	09/28/04
Matrix:	Soil	Received:	09/29/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04
Diln Fac:	1.000		

Type: MS Moisture: 20%
Lab ID: QC267309

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.943	122.5	43.32	34 *	75-125
Arsenic	19.68	61.27	76.59	93	75-125
Barium	92.82	122.5	194.2	83	75-125
Beryllium	0.4035	3.064	3.168	90	75-125
Cadmium	1.627	12.25	12.87	92	75-125
Chromium	48.33	122.5	166.1	96	75-125
Cobalt	14.98	30.64	44.24	96	75-125
Copper	48.82	15.32	69.24	133 *	75-125
Iron	32,890	1,225	31,070 >LR	-148 NM	75-125
Lead	237.0	122.5	334.6	80	75-125
Manganese	1,188	30.64	1,581 >LR	1282 NM	75-125
Molybdenum	0.8911	24.51	20.28	79	75-125
Nickel	48.70	30.64	90.69	137 *	75-125
Selenium	<0.2125	61.27	52.76	86	75-125
Silver	<0.1225	12.25	11.46	94	75-125
Thallium	<0.2625	61.27	53.74	88	75-125
Vanadium	53.28	30.64	91.30	124	75-125
Zinc	169.6	30.64	223.0 >LR	175 NM	75-125

Type: MSD Moisture: 20%
Lab ID: QC267310

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	134.4	51.28	37 *	75-125	8	30
Arsenic	67.20	84.68	97	75-125	3	30
Barium	134.4	211.7	88	75-125	3	30
Beryllium	3.360	3.548	94	75-125	3	30
Cadmium	13.44	14.25	94	75-125	2	30
Chromium	134.4	180.8	99	75-125	2	30
Cobalt	33.60	48.19	99	75-125	2	30
Copper	16.80	70.56	129 *	75-125	0	30
Iron	1,344	33,240 >LR	26 NM	75-125	NC	30
Lead	134.4	392.5	116	75-125	13	30
Manganese	33.60	1,230	124 NM	75-125	NC	30
Molybdenum	26.88	23.39	84	75-125	5	30
Nickel	33.60	95.43	139 *	75-125	1	30
Selenium	67.20	60.01	89	75-125	4	30
Silver	13.44	12.97	97	75-125	3	30
Thallium	67.20	60.82	91	75-125	3	30
Vanadium	33.60	96.77	129 *	75-125	2	30
Zinc	33.60	226.5 >LR	169 NM	75-125	NC	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	95280
MSS Lab ID:	174988-006	Sampled:	09/28/04
Matrix:	Soil	Received:	09/29/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Type: MS Moisture: 49%
Lab ID: QC267312

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Antimony	2.169	159.4	50.37	30 *	75-125	1.000
Arsenic	13.27	79.71	84.49	89	75-125	1.000
Barium	70.10	159.4	207.2	86	75-125	1.000
Beryllium	0.7826	3.985	4.264	87	75-125	1.000
Cadmium	2.568	15.94	16.02	84	75-125	1.000
Chromium	98.91	159.4	229.6	82	75-125	1.000
Cobalt	12.93	39.85	45.75	82	75-125	1.000
Copper	56.83	19.93	71.50	74 *	75-125	1.000
Iron	38,800	1,594	43,800	314 NM	75-125	5.000
Lead	24.99	159.4	160.2	85	75-125	1.000
Manganese	264.6	39.85	296.5	80 NM	75-125	1.000
Molybdenum	0.7973	31.88	24.71	75	75-125	1.000
Nickel	78.87	39.85	108.4	74 *	75-125	1.000
Selenium	<0.2941	79.71	65.12	82	75-125	1.000
Silver	<0.1706	15.94	14.19	89	75-125	1.000
Thallium	<0.3725	79.71	67.91	85	75-125	1.000
Vanadium	105.0	39.85	134.7	75	75-125	1.000
Zinc	79.99	39.85	110.8	77	75-125	1.000

Type: MSD Moisture: 49%
Lab ID: QC267313

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Antimony	144.2	45.34	30 *	75-125	1	30	1.000
Arsenic	72.09	80.74	94	75-125	4	30	1.000
Barium	144.2	198.2	89	75-125	2	30	1.000
Beryllium	3.604	4.001	89	75-125	2	30	1.000
Cadmium	14.42	15.07	87	75-125	2	30	1.000
Chromium	144.2	220.6	84	75-125	2	30	1.000
Cobalt	36.04	43.47	85	75-125	2	30	1.000
Copper	18.02	72.81	89	75-125	4	30	1.000
Iron	1,442	45,090	436 NM	75-125	3	30	5.000
Lead	144.2	149.2	86	75-125	2	30	1.000
Manganese	36.04	306.4	116 NM	75-125	5	30	1.000
Molybdenum	28.84	23.00	77	75-125	3	30	1.000
Nickel	36.04	106.7	77	75-125	2	30	1.000
Selenium	72.09	59.54	83	75-125	1	30	1.000
Silver	14.42	13.12	91	75-125	2	30	1.000
Thallium	72.09	63.37	88	75-125	3	30	1.000
Vanadium	36.04	134.1	81	75-125	2	30	1.000
Zinc	36.04	108.9	80	75-125	1	30	1.000

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	95280
MSS Lab ID:	174988-009	Sampled:	09/28/04
Matrix:	Soil	Received:	09/29/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Type: MS Moisture: 46%
Lab ID: QC267314

Analyte	MSS Result	Spiked	Result	%REC	Limits	Dilu Fac
Antimony	1.978	138.2	44.64	31 *	75-125	1.000
Arsenic	14.14	69.10	78.77	94	75-125	1.000
Barium	61.11	138.2	193.5	96	75-125	1.000
Beryllium	0.7391	3.455	3.648	84	75-125	1.000
Cadmium	2.155	13.82	14.03	86	75-125	1.000
Chromium	87.54	138.2	198.3	80	75-125	1.000
Cobalt	13.80	34.55	41.53	80	75-125	1.000
Copper	59.43	17.27	66.75	42 *	75-125	1.000
Iron	37,360	1,382	43,460	442 NM	75-125	5.000
Lead	23.82	138.2	143.0	86	75-125	1.000
Manganese	279.5	34.55	386.3	309 NM	75-125	1.000
Molybdenum	0.8670	27.64	21.70	75	75-125	1.000
Nickel	73.06	34.55	97.43	71 *	75-125	1.000
Selenium	<0.2963	69.10	56.66	82	75-125	1.000
Silver	<0.1667	13.82	12.09	88	75-125	1.000
Thallium	<0.3519	69.10	59.49	86	75-125	1.000
Vanadium	92.59	34.55	115.4	66 *	75-125	1.000
Zinc	76.26	34.55	100.2	69 *	75-125	1.000

Type: MSD Moisture: 46%
Lab ID: QC267315

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Dilu Fac
Antimony	131.3	41.70	30 *	75-125	2	30	1.000
Arsenic	65.67	66.33	79	75-125	13	30	1.000
Barium	131.3	171.4	84	75-125	9	30	1.000
Beryllium	3.283	3.520	85	75-125	1	30	1.000
Cadmium	13.13	13.00	83	75-125	3	30	1.000
Chromium	131.3	195.0	82	75-125	1	30	1.000
Cobalt	32.83	40.52	81	75-125	1	30	1.000
Copper	16.42	69.61	62 *	75-125	5	30	1.000
Iron	1,313	36,970	-29 NM	75-125	16	30	5.000
Lead	131.3	135.3	85	75-125	1	30	1.000
Manganese	32.83	293.5	43 NM	75-125	27	30	1.000
Molybdenum	26.27	20.23	74 *	75-125	2	30	1.000
Nickel	32.83	97.85	75	75-125	2	30	1.000
Selenium	65.67	54.11	82	75-125	0	30	1.000
Silver	13.13	11.43	87	75-125	1	30	1.000
Thallium	65.67	56.47	86	75-125	0	30	1.000
Vanadium	32.83	116.2	72 *	75-125	2	30	1.000
Zinc	32.83	102.4	80	75-125	4	30	1.000

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	95280
MSS Lab ID:	174988-017	Sampled:	09/28/04
Matrix:	Soil	Received:	09/29/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/08/04

Type: MS Moisture: 33%
Lab ID: QC267316

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Antimony	3.298	113.9	40.16	32 *	75-125	1.000
Arsenic	29.37	56.97	75.77	81	75-125	1.000
Barium	239.1	113.9	329.3	79	75-125	1.000
Beryllium	0.7238	2.848	3.150	85	75-125	1.000
Cadmium	12.12	11.39	19.08	61 *	75-125	1.000
Chromium	116.4	113.9	200.0	73 *	75-125	1.000
Cobalt	31.86	28.48	48.02	57 *	75-125	1.000
Copper	719.8	14.24	402.8	-2226 NM	75-125	1.000
Iron	49,390	1,139	55,120 >LR	503 NM	75-125	5.000
Lead	607.4	113.9	557.7	-44 NM	75-125	1.000
Manganese	1,340	28.48	843.1	-1745 NM	75-125	1.000
Molybdenum	1.348	22.79	18.12	74 *	75-125	1.000
Nickel	128.4	28.48	129.9	5 NM	75-125	1.000
Selenium	<0.2836	56.97	45.06	79	75-125	1.000
Silver	0.5481	11.39	10.82	90	75-125	1.000
Thallium	<0.3433	56.97	48.42	85	75-125	1.000
Vanadium	93.89	28.48	113.4	68 *	75-125	1.000
Zinc	2,494	28.48	2,194	-1050 NM	75-125	5.000

Type: MSD Moisture: 33%
Lab ID: QC267317

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Antimony	136.9	53.47	37 *	75-125	11	30	1.000
Arsenic	68.47	92.43	92	75-125	7	30	1.000
Barium	136.9	379.3	102	75-125	8	30	1.000
Beryllium	3.423	3.875	92	75-125	6	30	1.000
Cadmium	13.69	23.21	81	75-125	10	30	1.000
Chromium	136.9	232.8	85	75-125	6	30	1.000
Cobalt	34.23	55.80	70 *	75-125	6	30	1.000
Copper	17.12	420.4	-1749 NM	75-125	4	30	1.000
Iron	1,369	51,350	143 NM	75-125	NC	30	5.000
Lead	136.9	638.1	22 NM	75-125	10	30	1.000
Manganese	34.23	958.5	-1115 NM	75-125	12	30	1.000
Molybdenum	27.39	23.62	81	75-125	9	30	1.000
Nickel	34.23	148.6	59 *	75-125	10	30	1.000
Selenium	68.47	59.91	88	75-125	10	30	1.000
Silver	13.69	13.83	97	75-125	7	30	1.000
Thallium	68.47	62.51	91	75-125	7	30	1.000
Vanadium	34.23	126.7	96	75-125	6	30	1.000
Zinc	34.23	2,145	-1018 NM	75-125	3	30	5.000

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

17.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Basis:	dry
Type:	Serial Dilution	Batch#:	95280
MSS Lab ID:	174988-004	Sampled:	09/28/04
Lab ID:	QC267311	Received:	09/29/04
Matrix:	Soil	Analyzed:	10/08/04
Units:	mg/Kg		

Moisture: 20%

Analyte	MSS Result	MSS RL	Result	RL	MDL	% Diff	Lim	Diln Fac
Antimony	1.943	3.713	1.8 J	19	1.2		10	5.000
Arsenic	19.68	0.3094	19	1.5	0.61	3	10	5.000
Barium	92.82	0.6188	93	3.1	0.084	0	10	5.000
Beryllium	0.4035	0.1238	0.35 J	0.62	0.039	13 *	10	5.000
Cadmium	1.627	0.3094	1.4 J	1.5	0.18		10	5.000
Chromium	48.33	0.6188	50	3.1	0.20	4	10	5.000
Cobalt	14.98	1.238	16	6.2	0.48	4	10	5.000
Copper	48.82	0.6188	48	3.1	0.35	2	10	5.000
Iron	32,890	30.94	32,000	150	45	4	10	25.00
Lead	237.0	0.1856	240	0.93	0.40	3	10	5.000
Manganese	1,188	0.6188	1,100	3.1	0.69	7	10	5.000
Molybdenum	0.8911	1.238	1.1 J	6.2	0.39		10	5.000
Nickel	48.70	1.238	52	6.2	0.41	6	10	5.000
Selenium	ND	0.3094	ND	1.5	1.1		10	5.000
Silver	ND	0.3094	ND	1.5	0.61		10	5.000
Thallium	ND	0.3094	ND	1.5	1.4		10	5.000
Vanadium	53.28	0.6188	54	3.1	0.28	2	10	5.000
Zinc	169.6	1.238	170	6.2	1.1	1	10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74406516012	Seqnum	: 74406516014
Filename	: tr250610	Filename	: tr250612
IDF	: 1.0	IDF	: 1.0
PDF	: 49.50	PDF	: 49.50
Run type	: MSS	Run type	: PDS
Samplenum	: 174988-004	Samplenum	: QC267350
Matrix	: Soil	Matrix	: Soil
Batchnum	: 95280	Batchnum	: 95280
Inj	: 08-OCT-2004 09:17	Inj	: 08-OCT-2004 09:27
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	31.40	2000	1890	93	16-120	u
Arsenic	318.0	1000	1150	83	62-120	u
Barium	1500	2000	3180	84	51-137	u
Beryllium	6.520	50	49.10	85	70-120	u
Cadmium	26.30	200	166.0	70	61-120	u
Calcium	*** usable MSS data not found ***					
Chromium	781.0	2000	2400	81	60-120	u
Cobalt	242.0	500	637.0	79	56-120	u
Copper	789.0	250	1010	88	47-144	u
Iron	*** usable MSS data not found ***					
Lead	3830	2000	5390	78	47-126	u
Magnesium	*** usable MSS data not found ***					
Manganese	19200	500	19200	0	62-131	: u
Molybdenum	14.40	400	363.0	87	57-120	u
Nickel	787.0	500	1130	69	41-138	u
Selenium	ND	1000	838.0	84	35-122	u
Silver	ND	200	189.0	95	71-120	u
Thallium	ND	1000	780.0	78	53-120	u
Vanadium	861.0	500	1270	82	48-136	u
Zinc	2740	500	3060 >LR	64	38-144	: >LR u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful >LR=overrange u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Instid	: MET01
Seqnum	: 14406749010	Seqnum	: 14406749020
Filename	: icp178903	Filename	: icp178914
IDF	: 1.0	IDF	: 1.0
PDF	: 49.50	PDF	: 49.50
Run type	: MSS	Run type	: PDS
Samplenum	: 174988-004	Samplenum	: QC267350
Matrix	: Soil	Matrix	: Soil
Batchnum	: 95280	Batchnum	: 95280
Inj	: 08-OCT-2004 11:54	Inj	: 08-OCT-2004 12:30

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec		Flags
Aluminum	*** usable MSS data not found ***						
Antimony	*** usable MSS data not found ***						
Arsenic	355.1	1000	1220	86	62-120	ug/L	y
Barium	1559	2000	3322	88	51-137	ug/L	
Beryllium	*** usable MSS data not found ***						
Cadmium	*** usable MSS data not found ***						
Calcium	*** usable MSS data not found ***						
Chromium	*** usable MSS data not found ***						
Cobalt	245.0	500.000000000001	674.1	86	56-120	ug/L	
Copper	756.9	250	987.3	92	47-144	ug/L	
Iron	*** usable MSS data not found ***						
Lead	*** usable MSS data not found ***						
Magnesium	*** usable MSS data not found ***						
Manganese	*** usable MSS data not found ***						
Molybdenum	30.71	400	385.1	89	57-120	ug/L	
Nickel	*** usable MSS data not found ***						
Potassium	31900	10000	40800	89	33-157	ug/L	u
Selenium	187.6	1000	1035	85	35-122	ug/L	y
Silver	*** usable MSS data not found ***						
Sodium	56320	20000	76660	102	72-126	ug/L	u
Thallium	ND	1000	736.3	74	53-120	ug/L	y
Vanadium	*** usable MSS data not found ***						
Zinc	*** usable MSS data not found ***						
Boron	*** usable MSS data not found ***						
Phosphorus	*** not spiked in PDS ***						
Silicon	*** not spiked in PDS ***						
Sulfide	*** not spiked in PDS ***						
Tin	*** usable MSS data not found ***						
Titanium	*** usable MSS data not found ***						

u=use y=RL raised

Method: 6010B Standard: blank
Run Time: 10/08/04 06:54:18

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.001	.003	-.000	.001	-.331	.004	.001
SDev	.001	.004	.001	.000	.001	.003	.000
%RSD	125.	118.	474.	9.46	.221	64.3	33.7
#1	.002	.001	-.001	.001	-.331	.002	.001
#2	.000	.006	.001	.001	-.332	.006	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.009	.001	.001	.001	.002	-.008
SDev	.001	.001	.004	.004	.003	.000	.003
%RSD	59.3	5.81	364.	575.	569.	9.10	40.4
#1	-.001	.009	-.002	.003	.003	.002	-.005
#2	-.001	.009	.004	-.002	-.002	.002	-.010

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	-.001	-.005	.000	.042	.0630	-.0020
SDev	.002	.000	.002	.001	.000	.0000	.0000
%RSD	28.1	23.0	51.5	151.	.265	.0667	2.113
#1	.008	-.001	-.006	-.000	.042	.0630	-.0021
#2	.006	-.001	-.003	.001	.042	.0630	-.0020

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0015	-.0001	.001	.289
SDev	.0008	.0001	.000	.001
%RSD	55.74	141.4	9.46	.280
#1	-.0021	.0000	.001	.288
#2	-.0009	-.0001	.001	.290

Method: 6010B Standard: cst hi
Run Time: 10/08/04 06:58:14

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.50	.831	.331	18.2	3.82	1.41	.298
SDev	.01	.005	.001	.1	.01	.00	.001
%RSD	.869	.622	.352	.274	.190	.281	.182
#1	1.49	.827	.330	18.3	3.82	1.40	.298
#2	1.51	.834	.332	18.2	3.83	1.41	.299

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.944	.595	1.12	1.05	2.60	2.46	.381
SDev	.002	.000	.00	.01	.02	.01	.000
%RSD	.183	.043	.409	.911	.900	.288	.022
#1	.942	.595	1.11	1.05	2.59	2.45	.381
#2	.945	.595	1.12	1.06	2.62	2.46	.381

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.411	.348	.224	1.08	.249	.1914	.4034
SDev	.005	.001	.004	.00	.001	.0005	.0007
%RSD	1.11	.313	1.66	.022	.331	.2492	.1818
#1	.408	.348	.221	1.08	.249	.1910	.4029
#2	.415	.349	.226	1.08	.250	.1917	.4039

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1580	.2277	1.41	8.29
SDev	.0009	.0008	.00	.01
%RSD	.5491	.3559	.278	.109
#1	.1574	.2272	1.41	8.28
#2	.1586	.2283	1.41	8.29

Standardization Report 10/08/04 07:01:43 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	665.023	-.674648	10/08/04 06:58:14
Sb206A	206.832	Multiple	Standards	1184.83	-4.04617	10/08/04 06:58:14
As1890	189.042	Multiple	Standards	1510.59	.383338	10/08/04 06:58:14
Ba4934	493.409	Multiple	Standards	54.8102	-.036789	10/08/04 06:58:14
Be3130	313.042	Multiple	Standards	23.2347	7.70124	10/08/04 06:58:14
Cd2265	226.502	Multiple	Standards	71.2739	-.315704	10/08/04 06:58:14
Cr2677	267.716	Multiple	Standards	672.552	-.421347	10/08/04 06:58:14
Co2286	228.616	Multiple	Standards	530.661	.490786	10/08/04 06:58:14
Cu3247	324.754	Multiple	Standards	341.244	-3.05006	10/08/04 06:58:14
Pb2203	220.351	Multiple	Standards	448.913	-.501876	10/08/04 06:58:14
Pb220A	220.352	Multiple	Standards	470.448	-.316072	10/08/04 06:58:14
Mo2020	202.030	Multiple	Standards	384.159	-.200741	10/08/04 06:58:14
Ni2316	231.604	Multiple	Standards	203.391	-.473264	10/08/04 06:58:14
Se1960	196.021	Multiple	Standards	1285.64	9.72159	10/08/04 06:58:14
Se196A	196.022	Multiple	Standards	1234.99	-8.54753	10/08/04 06:58:14
Ag3280	328.068	Multiple	Standards	286.517	.316256	10/08/04 06:58:14
Tl1908	190.864	Multiple	Standards	2207.89	10.0451	10/08/04 06:58:14
V_2924	292.402	Multiple	Standards	462.583	-.213836	10/08/04 06:58:14
Zn2138	213.856	Multiple	Standards	499.302	-21.1654	10/08/04 06:58:14
Al3082	308.215	Multiple	Standards	7935.66	-500.092	10/08/04 06:58:14
Ca3179	317.933	Multiple	Standards	4933.04	10.0068	10/08/04 06:58:14
Fe2714	271.441	Multiple	Standards	6563.25	9.69249	10/08/04 06:58:14
Mg2790	279.079	Multiple	Standards	8775.83	.523461	10/08/04 06:58:14
Mn2576	257.610	Multiple	Standards	70.9389	-.047615	10/08/04 06:58:14
Pb sum	220.353	NONE	NONE	1.00000	.000000	*10/08/04 06:58:14
Sb sum	206.838	NONE	NONE	1.00000	.000000	*10/08/04 06:58:14
Se sum	196.026	NONE	NONE	1.00000	.000000	*10/08/04 06:58:14
Ti3349	334.941	Multiple	Standards	125.034	-36.1335	10/08/04 06:58:14

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516001

Run Name :
Filename : tr250599

Injected : 08-OCT-2004 07:16
Caltype :

Standards: 04WS1891

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	952.9000	ug/L	-5	5	
Antimony	1000.000	970.0000	ug/L	-3	5	
Arsenic	500.0000	484.0000	ug/L	-3	5	
Barium	1000.000	962.0000	ug/L	-4	5	
Beryllium	100.0000	98.40000	ug/L	-2	5	
Cadmium	100.0000	96.90000	ug/L	-3	5	
Calcium	2000.000	1984.000	ug/L	-1	5	
Chromium	200.0000	195.0000	ug/L	-3	5	
Cobalt	500.0000	488.0000	ug/L	-2	5	
Copper	200.0000	194.0000	ug/L	-3	5	
Iron	1000.000	978.3000	ug/L	-2	5	
Lead	500.0000	486.0000	ug/L	-3	5	
Magnesium	2000.000	1966.000	ug/L	-2	5	
Manganese	100.0000	97.70000	ug/L	-2	5	
Molybdenum	1000.000	973.0000	ug/L	-3	5	
Nickel	500.0000	486.0000	ug/L	-3	5	
Selenium	500.0000	480.0000	ug/L	-4	5	
Silver	100.0000	97.30000	ug/L	-3	5	
Thallium	500.0000	488.0000	ug/L	-2	5	
Titanium	1000.000	971.0000	ug/L	-3	5	
Vanadium	500.0000	487.0000	ug/L	-3	5	
Zinc	100.0000	97.00000	ug/L	-3	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516002

Run Name :
Filename : tr250600

Injected : 08-OCT-2004 08:03
Caltype :

Standards: 04WS1863

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	465.3000	ug/L	-7	10	
Antimony	500.0000	494.0000	ug/L	-1	10	
Arsenic	250.0000	233.0000	ug/L	-7	10	
Barium	500.0000	496.0000	ug/L	-1	10	
Beryllium	50.00000	47.30000	ug/L	-5	10	
Cadmium	50.00000	46.20000	ug/L	-8	10	
Calcium	1000.000	941.3000	ug/L	-6	10	
Chromium	100.0000	95.60000	ug/L	-4	10	
Cobalt	250.0000	230.0000	ug/L	-8	10	
Copper	100.0000	101.0000	ug/L	1	10	
Iron	500.0000	466.9000	ug/L	-7	10	
Lead	250.0000	233.0000	ug/L	-7	10	
Magnesium	1000.000	908.8000	ug/L	-9	10	
Manganese	50.00000	46.70000	ug/L	-7	10	
Molybdenum	500.0000	482.0000	ug/L	-4	10	
Nickel	250.0000	232.0000	ug/L	-7	10	
Selenium	250.0000	229.0000	ug/L	-8	10	
Silver	50.00000	51.00000	ug/L	2	10	
Thallium	250.0000	228.0000	ug/L	-9	10	
Titanium	500.0000	494.0000	ug/L	-1	10	
Vanadium	250.0000	240.0000	ug/L	-4	10	
Zinc	50.00000	46.40000	ug/L	-7	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516004
Run Name :
Filename : tr250602
Injected : 08-OCT-2004 08:23
Caltype :

Standards: 04WS1488

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	99.56000	ug/L	0	50	
Antimony	60.00000	55.90000	ug/L	-7	50	
Arsenic	5.000000	4.830000	ug/L	-3	50	
Barium	10.00000	10.00000	ug/L	0	50	
Beryllium	2.000000	1.850000	ug/L	-8	50	
Cadmium	5.000000	4.480000	ug/L	-10	50	
Calcium	200.0000	203.7000	ug/L	2	50	
Chromium	10.00000	9.530000	ug/L	-5	50	
Cobalt	20.00000	18.30000	ug/L	-9	50	
Copper	10.00000	10.40000	ug/L	4	50	
Iron	100.0000	99.99000	ug/L	0	50	
Lead	3.000000	4.130000	ug/L	38	50	
Magnesium	200.0000	190.5000	ug/L	-5	50	
Manganese	10.00000	9.410000	ug/L	-6	50	
Molybdenum	20.00000	19.00000	ug/L	-5	50	
Nickel	20.00000	18.20000	ug/L	-9	50	
Selenium	5.000000	4.580000	ug/L	-8	50	
Silver	5.000000	4.760000	ug/L	-5	50	
Thallium	5.000000	4.840000	ug/L	-3	50	
Vanadium	10.00000	9.910000	ug/L	-1	50	
Zinc	20.00000	17.70000	ug/L	-12	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516015

Run Name :
Filename : tr250613

IDF : 1.0
Injected : 08-OCT-2004 09:39
Caltype :

Standards: 04WS1864

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	497.7000	ug/L	0	10	
Antimony		500.0000	512.0000	ug/L	2	10	
Arsenic		250.0000	248.0000	ug/L	-1	10	
Barium		500.0000	498.0000	ug/L	0	10	
Beryllium		50.00000	50.20000	ug/L	0	10	
Cadmium		50.00000	51.10000	ug/L	2	10	
Calcium		1000.000	1040.000	ug/L	4	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	525.0000	ug/L	5	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1015.000	ug/L	2	10	
Manganese		50.00000	50.10000	ug/L	0	10	
Molybdenum		500.0000	508.0000	ug/L	2	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	50.70000	ug/L	1	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	516.0000	ug/L	3	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	52.10000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516027
Run Name :
Filename : tr250625
IDF : 1.0
Injected : 08-OCT-2004 10:46
Caltype :

Standards: 04WS1679

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	807.4000	ug/L	8	10	
Antimony		750.0000	775.0000	ug/L	3	10	
Arsenic		375.0000	388.0000	ug/L	3	10	
Barium		750.0000	767.0000	ug/L	2	10	
Beryllium		75.00000	75.50000	ug/L	1	10	
Cadmium		75.00000	78.20000	ug/L	4	10	
Calcium		1500.000	1506.000	ug/L	0	10	
Chromium		150.0000	155.0000	ug/L	3	10	
Cobalt		375.0000	376.0000	ug/L	0	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	820.5000	ug/L	9	10	
Lead		375.0000	391.0000	ug/L	4	10	
Magnesium		1500.000	1566.000	ug/L	4	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	760.0000	ug/L	1	10	
Nickel		375.0000	387.0000	ug/L	3	10	
Selenium		375.0000	378.0000	ug/L	1	10	
Silver		75.00000	77.90000	ug/L	4	10	
Thallium		375.0000	385.0000	ug/L	3	10	
Titanium		750.0000	782.0000	ug/L	4	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	78.70000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516039

Run Name :
Filename : tr250637

IDF : 1.0
Injected : 08-OCT-2004 11:39
Caltype :

Standards: 04WS1864

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	508.6000	ug/L	2	10	
Antimony		500.0000	492.0000	ug/L	-2	10	
Arsenic		250.0000	244.0000	ug/L	-2	10	
Barium		500.0000	479.0000	ug/L	-4	10	
Beryllium		50.00000	48.60000	ug/L	-3	10	
Cadmium		50.00000	49.10000	ug/L	-2	10	
Calcium		1000.000	1011.000	ug/L	1	10	
Chromium		100.0000	97.90000	ug/L	-2	10	
Cobalt		250.0000	237.0000	ug/L	-5	10	
Copper		100.0000	96.70000	ug/L	-3	10	
Iron		500.0000	639.6000	ug/L	**28**	10	c+ **
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	986.7000	ug/L	-1	10	
Manganese		50.00000	48.50000	ug/L	-3	10	
Molybdenum		500.0000	482.0000	ug/L	-4	10	
Nickel		250.0000	242.0000	ug/L	-3	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	49.40000	ug/L	-1	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	499.0000	ug/L	0	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	52.10000	ug/L	4	10	

+=high bias c=CCV

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74406516003 Run Name: Injected: 08-OCT-2004 08:15
Filename: tr250601 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74406516016 Run Name: Injected: 08-OCT-2004 09:47
Filename: tr250614 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[42.820]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[24.180]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[27.890]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.2400]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.5440]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74406516028 Run Name: Injected: 08-OCT-2004 10:49
Filename: tr250626 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[25.090]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[51.830]	100.0000	ug/L	<RL
Lead	[1.8200]	3.000000	ug/L	<RL
Magnesium	[29.530]	500.0000	ug/L	<RL
Manganese	[0.5380]	10.00000	ug/L	<RL
Molybdenum	[2.4100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[3.9900]	5.000000	ug/L	<RL
Titanium	[1.4500]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74406516040 Run Name:
Filename: tr250638 Run Type: CCB

Injected: 08-OCT-2004 11:48

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	[0.4520]	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[24.950]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[54.970]	100.0000	ug/L	<RL
Lead	[1.3200]	3.000000	ug/L	<RL
Magnesium	[30.290]	500.0000	ug/L	<RL
Manganese	[0.5270]	10.00000	ug/L	<RL
Molybdenum	[5.5000]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.7000]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.5000]	5.000000	ug/L	<RL
Titanium	[5.6200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74406516005 Run Name: Injected: 08-OCT-2004 08:33
Filename: tr250603 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[2.6500]	60.00000	ug/L	<RL
Arsenic	[4.7400]	5.000000	ug/L	<RL
Barium	[-0.065]	10.00000	ug/L	<RL
Beryllium	[-0.708]	2.000000	ug/L	<RL
Cadmium	6.560000	5.000000	ug/L	<RL
Chromium	[3.1900]	10.00000	ug/L	<RL
Cobalt	[0.3340]	10.00000	ug/L	<RL
Copper	[-2.750]	10.00000	ug/L	<RL
Lead	[2.6800]	3.000000	ug/L	<RL
Manganese	[2.8500]	10.00000	ug/L	<RL
Molybdenum	[-0.589]	20.00000	ug/L	<RL
Nickel	[1.8700]	20.00000	ug/L	<RL
Selenium	-13.6000	5.000000	ug/L	<RL a- ***
Silver	[-0.615]	5.000000	ug/L	<RL
Thallium	[2.0800]	5.000000	ug/L	<RL
Titanium	25.50000	10.00000	ug/L	<RL a+ ***
Vanadium	[-3.420]	10.00000	ug/L	<RL
Zinc	[-0.200]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	535000	ug/L	107
Calcium	500000	447000.	ug/L	89
Iron	200000	172400	ug/L	86
Magnesium	500000	487200	ug/L	97

+=high bias -=low bias a=ICSA

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74406516007 Run Name:
Filename: tr250605 Run Type: ICSA

Injected: 08-OCT-2004 08:50

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[2.3000]	60.00000	ug/L	<RL
Arsenic	[4.0900]	5.000000	ug/L	<RL
Barium	[-0.148]	10.00000	ug/L	<RL
Beryllium	[-0.824]	2.000000	ug/L	<RL
Cadmium	6.980000	5.000000	ug/L	<RL
Chromium	[3.6200]	10.00000	ug/L	<RL
Cobalt	[0.4330]	10.00000	ug/L	<RL
Copper	[-2.970]	10.00000	ug/L	<RL
Lead	3.670000	3.000000	ug/L	<RL
Manganese	[2.4500]	10.00000	ug/L	<RL
Molybdenum	[-0.624]	20.00000	ug/L	<RL
Nickel	[2.2200]	20.00000	ug/L	<RL
Selenium	[-4.620]	5.000000	ug/L	<RL
Silver	[-0.171]	5.000000	ug/L	<RL
Thallium	7.300000	5.000000	ug/L	<RL
Titanium	26.70000	10.00000	ug/L	<RL a+ ***
Vanadium	[-3.470]	10.00000	ug/L	<RL
Zinc	[0.4440]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	543900	ug/L	109
Calcium	500000	460100.	ug/L	92
Iron	200000	175700	ug/L	88
Magnesium	500000	499300	ug/L	100

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516008

Run Name :
Filename : tr250606

Injected : 08-OCT-2004 08:54
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	544000.0	ug/L	9		
Antimony	500.0000	540.0000	ug/L	8	20	
Arsenic	500.0000	486.0000	ug/L	-3	20	
Barium	500.0000	486.0000	ug/L	-3	20	
Beryllium	500.0000	479.0000	ug/L	-4	20	
Cadmium	1000.000	818.0000	ug/L	-18	20	
Calcium	500000.0	461100.0	ug/L	-8		
Chromium	500.0000	464.0000	ug/L	-7	20	
Cobalt	500.0000	452.0000	ug/L	-10	20	
Copper	500.0000	523.0000	ug/L	5	20	
Iron	200000.0	175400.0	ug/L	-12		
Lead	1000.000	918.0000	ug/L	-8	20	
Magnesium	500000.0	500100.0	ug/L	0		
Manganese	500.0000	463.0000	ug/L	-7	20	
Molybdenum	500.0000	492.0000	ug/L	-2	20	
Nickel	1000.000	828.0000	ug/L	-17	20	
Selenium	500.0000	472.0000	ug/L	-6	20	
Silver	1000.000	950.0000	ug/L	-5	20	
Thallium	500.0000	464.0000	ug/L	-7	20	
Titanium	20000.00	21900.00	ug/L	10		
Vanadium	500.0000	480.0000	ug/L	-4	20	
Zinc	1000.000	912.0000	ug/L	-9	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74406516041
Run Name :
Filename : tr250639
Injected : 08-OCT-2004 11:52
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	499200.0	ug/L	0		
Antimony	500.0000	536.0000	ug/L	7	20	
Arsenic	500.0000	527.0000	ug/L	5	20	
Barium	500.0000	486.0000	ug/L	-3	20	
Beryllium	500.0000	472.0000	ug/L	-6	20	
Cadmium	1000.000	920.0000	ug/L	-8	20	
Calcium	500000.0	445700.0	ug/L	-11		
Chromium	500.0000	465.0000	ug/L	-7	20	
Cobalt	500.0000	458.0000	ug/L	-8	20	
Copper	500.0000	493.0000	ug/L	-1	20	
Iron	200000.0	167100.0	ug/L	-16		
Lead	1000.000	948.0000	ug/L	-5	20	
Magnesium	500000.0	513400.0	ug/L	3		
Manganese	500.0000	454.0000	ug/L	-9	20	
Molybdenum	500.0000	490.0000	ug/L	-2	20	
Nickel	1000.000	882.0000	ug/L	-12	20	
Selenium	500.0000	495.0000	ug/L	-1	20	
Silver	1000.000	908.0000	ug/L	-9	20	
Thallium	500.0000	500.0000	ug/L	0	20	
Titanium	20000.00	21400.00	ug/L	7		
Vanadium	500.0000	472.0000	ug/L	-6	20	
Zinc	1000.000	963.0000	ug/L	-4	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74406516 Instrument: MET07 TJA Trace ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr250599	CS				08-OCT-2004 07:16	1.0	1.0			1	
002	tr250600	ICV				08-OCT-2004 08:03	1.0	1.0			2	
003	tr250601	ICB				08-OCT-2004 08:15	1.0	1.0				
004	tr250602	CRI				08-OCT-2004 08:23	1.0	1.0			3	
005	tr250603	ICSA				08-OCT-2004 08:33	1.0	1.0	2		4	4:AL=535000
006	tr250604	X	200 ppm Fe			08-OCT-2004 08:46	1.0					
007	tr250605	ICSA				08-OCT-2004 08:50	1.0	1.0	1		4	4:AL=543900
008	tr250606	ICSAB				08-OCT-2004 08:54	1.0	1.0			5	5:AL=544000
009	tr250607	BLANK	QC267306	95280	Soil	08-OCT-2004 09:03	1.0	50.0	1			
010	tr250608	BS	QC267307	95280	Soil	08-OCT-2004 09:07	1.0	50.0	1			
011	tr250609	BSD	QC267308	95280	Soil	08-OCT-2004 09:11	1.0	50.0	1			
012	tr250610	MSS	174988-004	95280	Soil	08-OCT-2004 09:17	1.0	49.50	5			4:CA=592100
013	tr250611	SER	QC267311	95280	Soil	08-OCT-2004 09:22	5.0	49.50		1		2:CA=128500
014	tr250612	PDS	QC267350	95280	Soil	08-OCT-2004 09:27	1.0	49.50			6 7	5:CA=594500
015	tr250613	CCV				08-OCT-2004 09:39	1.0	1.0			8	
016	tr250614	CCB				08-OCT-2004 09:47	1.0	1.0				
017	tr250615	MS	QC267309	95280	Soil	08-OCT-2004 09:52	1.0	49.02				7:FE=567100
018	tr250616	MSD	QC267310	95280	Soil	08-OCT-2004 09:56	1.0	53.76		1		6:CA=567800
019	tr250617	MSS	174988-006	95280	Soil	08-OCT-2004 10:01	1.0	44.25	4			4:FE=475900
020	tr250618	MS	QC267312	95280	Soil	08-OCT-2004 10:05	1.0	40.65				4:AL=550600
021	tr250619	MSD	QC267313	95280	Soil	08-OCT-2004 10:09	1.0	36.76				4:AL=619500
022	tr250620	MSS	174988-009	95280	Soil	08-OCT-2004 10:15	1.0	45.45	4			3:FE=438300
023	tr250621	MS	QC267314	95280	Soil	08-OCT-2004 10:19	1.0	37.31		1		4:FE=658500
024	tr250622	MSD	QC267315	95280	Soil	08-OCT-2004 10:23	1.0	35.46		1		4:AL=583700
025	tr250623	MSS	174988-017	95280	Soil	08-OCT-2004 10:29	1.0	53.76	5			4:FE=606300
026	tr250624	MS	QC267316	95280	Soil	08-OCT-2004 10:33	1.0	38.17				5:FE=943500
027	tr250625	CCV				08-OCT-2004 10:46	1.0	1.0			9	
028	tr250626	CCB				08-OCT-2004 10:49	1.0	1.0				
029	tr250627	MSD	QC267317	95280	Soil	08-OCT-2004 10:54	1.0	45.87				5:FE=746900
030	tr250628	SAMPLE	175141-001	95280	Soil	08-OCT-2004 10:59	1.0	34.48	1			4:FE=410000
031	tr250629	SAMPLE	175141-002	95280	Soil	08-OCT-2004 11:03	1.0	46.30	1			3:FE=280300

Stds used: 1=04WS1891 2=04WS1863 3=04WS1488 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS1864 9=04WS1679

Analyst: Mei Wu Date: 10/8/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74406516 Instrument: MET07 TJA Trace ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr250630	SAMPLE	175141-003	95280	Soil	08-OCT-2004 11:08	1.0	35.46	1		3:FE=392500
033	tr250631	SAMPLE	175141-004	95280	Soil	08-OCT-2004 11:12	1.0	43.10	1		3:FE=319900
034	tr250632	SAMPLE	175141-005	95280	Soil	08-OCT-2004 11:16	1.0	50.51	1		3:FE=306900
035	tr250633	SAMPLE	175141-006	95280	Soil	08-OCT-2004 11:20	1.0	48.54	1		3:FE=352500
036	tr250634	SAMPLE	175141-007	95280	Soil	08-OCT-2004 11:24	1.0	35.46	1		3:FE=441900
037	tr250635	SAMPLE	175141-009	95280	Soil	08-OCT-2004 11:28	1.0	42.02	1		3:FE=306400
038	tr250636	SAMPLE	175141-010	95280	Soil	08-OCT-2004 11:32	1.0	44.64	1		3:FE=226000
039	tr250637	CCV				08-OCT-2004 11:39	1.0	1.0	1	8	
040	tr250638	CCB				08-OCT-2004 11:48	1.0	1.0			
041	tr250639	ICSAB				08-OCT-2004 11:52	1.0	1.0		5	5:MG=513400

46

Stds used: 1=04WS1891 2=04WS1863 3=04WS1488 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS1864 9=04WS1679

Analyst: Marcie Date: 10/8/04
Page 2 of 2

Method: 6010B Standard: blank
Run Time: 10/08/04 11:04:03

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	-.0004	.0038	.0000	.0005	.0003	.0002	.0003
SDev	.0002	.0008	.0000	.0000	.0004	.0001	.0004
%RSD	47.36	19.96	.0000	.2520	141.4	46.92	141.4
#1	-.0003	.0044	.0000	.0005	.0000	.0003	.0000
#2	-.0005	.0033	.0000	.0005	.0005	.0001	.0005

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0015	.0005	-.0008	-.0025	-.0003	.0000	-.0008
SDev	.0006	.0000	.0012	.0043	.0004	.0000	.0019
%RSD	38.80	.2520	141.4	173.0	141.4	.0000	235.3
#1	.0011	.0005	-.0016	-.0055	-.0005	.0000	.0005
#2	.0019	.0005	.0000	.0005	.0000	.0000	-.0022

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0003	.0005	.0007	.1867	.0014	.0003	.0003
SDev	.0004	.0000	.0002	.0040	.0012	.0004	.0004
%RSD	141.4	.2520	28.04	2.121	84.69	141.4	141.4
#1	-.0005	.0005	.0008	.1839	.0022	.0005	.0000
#2	.0000	.0005	.0005	.1895	.0005	.0000	.0005

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782
Avge	.0193	.0252	-.0016	.0096	.0000	.0005
SDev	.0025	.0046	.0000	.0012	.0000	.0012
%RSD	12.79	18.20	.2520	12.37	.0000	211.8
#1	.0211	.0285	-.0016	.0088	.0000	-.0003
#2	.0176	.0220	-.0016	.0104	.0000	.0014

Method: 6010B Standard: cs hi
Run Time: 10/08/04 11:06:32

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.5060	.9985	8.783	.3002	3.710	1.113	.8173
SDev	.0008	.0048	.007	.0000	.001	.002	.0027
%RSD	.1517	.4806	.0830	.0000	.0155	.1379	.3288
#1	.5065	.9951	8.788	.3002	3.710	1.112	.8154
#2	.5054	1.002	8.778	.3002	3.709	1.114	.8192

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.9180	.3290	2.254	2.023	.4881	.1642	.5179
SDev	.0011	.0008	.010	.012	.0031	.0004	.0046
%RSD	.1254	.2334	.4599	.5693	.6292	.2338	.8894
#1	.9188	.3284	2.246	2.031	.4859	.1640	.5147
#2	.9172	.3295	2.261	2.015	.4902	.1645	.5212

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.7409	2.000	2.554	51.54	3.844	6.988	1.506
SDev	.0010	.003	.002	.09	.032	.003	.003
%RSD	.1295	.1343	.0752	.1821	.8288	.0412	.1785
#1	.7402	1.998	2.552	51.47	3.822	6.990	1.504
#2	.7416	2.002	2.555	51.61	3.867	6.986	1.508

Elem	K_7664	Na5889
Avge	.5737	5.221
SDev	.0033	.003
%RSD	.5688	.0662
#1	.5714	5.219
#2	.5760	5.224

Standardization Report 10/08/04 11:08:26 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	19827.8	8.15886	10/08/04 11:06:32
As1890	189.042	Multiple	Standards	10053.6	-38.5784	10/08/04 11:06:32
Ba4934	493.409	Multiple	Standards	2277.11	.000000	10/08/04 11:06:32
Be3130	313.042	Multiple	Standards	1726.50	-.946681	10/08/04 11:06:32
Cd2288	228.802	Multiple	Standards	2696.78	-.740671	10/08/04 11:06:32
Cr2677	267.716	Multiple	Standards	1794.06	-.368677	10/08/04 11:06:32
Co2286	228.616	Multiple	Standards	6158.50	-1.69143	10/08/04 11:06:32
Cu3247	324.754	Multiple	Standards	2731.66	-4.12103	10/08/04 11:06:32
Pb2203	220.353	Multiple	Standards	30512.0	-16.7304	10/08/04 11:06:32
Mo2020	202.030	Multiple	Standards	4434.71	3.64098	10/08/04 11:06:32
Ni2316	231.604	Multiple	Standards	2468.46	6.07754	10/08/04 11:06:32
Se1960	196.026	Multiple	Standards	20453.9	5.59768	10/08/04 11:06:32
Ag3280	328.068	Multiple	Standards	5953.05	-.000000	10/08/04 11:06:32
Tl1908	190.864	Multiple	Standards	19285.2	15.9089	10/08/04 11:06:32
V_2924	292.402	Multiple	Standards	6620.60	1.81188	10/08/04 11:06:32
Zn2138	213.856	Multiple	Standards	2492.75	-1.36683	10/08/04 11:06:32
Al3961	396.153	Multiple	Standards	7880.72	-5.39954	10/08/04 11:06:32
Ca3179	317.933	Multiple	Standards	973.662	-181.791	10/08/04 11:06:32
Fe2599	259.940	Multiple	Standards	2602.07	-3.56312	10/08/04 11:06:32
Mg2790	279.079	Multiple	Standards	7122.65	-1.94927	10/08/04 11:06:32
Mn2576	257.610	Multiple	Standards	3322.13	-.912422	10/08/04 11:06:32
K_7664	766.491	Multiple	Standards	90192.2	-1742.98	10/08/04 11:06:32
Na5889	588.995	Multiple	Standards	9622.27	-242.644	10/08/04 11:06:32
Sn1899	189.989	STD4	blank	3797.42	6.24663	10/08/04 11:06:32
B_2496	249.678	STD4	blank	6188.83	-59.3948	10/08/04 11:06:32
Ti3349	334.941	STD4	blank	1155.01	.000000	10/08/04 11:06:32
P_1782	178.287	STD4	blank	6031680.	-3316.15	10/08/04 11:06:32
S_1820	182.040	STD4	STD1-Blank	48.6198	-3.56869	10/08/04 11:06:32
Si2881	288.158	STD4	STD1-Blank	368176.	-103052.	10/08/04 11:06:32

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14406749001
Run Name :
Filename : icp178894
Injected : 08-OCT-2004 11:09
Caltype :

Standards: 04WS1622

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	20000.00	20340.00	ug/L	2	5	
Antimony	10000.00	10090.00	ug/L	1	5	
Arsenic	10000.00	10100.00	ug/L	1	5	
Barium	20000.00	20480.00	ug/L	2	5	
Beryllium	500.0000	511.1000	ug/L	2	5	
Cadmium	10000.00	10170.00	ug/L	2	5	
Calcium	50000.00	51030.00	ug/L	2	5	
Chromium	2000.000	2039.000	ug/L	2	5	
Cobalt	5000.000	5104.000	ug/L	2	5	
Copper	2500.000	2548.000	ug/L	2	5	
Iron	10000.00	10180.00	ug/L	2	5	
Lead	10000.00	10210.00	ug/L	2	5	
Magnesium	50000.00	50660.00	ug/L	1	5	
Manganese	5000.000	5093.000	ug/L	2	5	
Molybdenum	10000.00	10280.00	ug/L	3	5	
Nickel	5000.000	5092.000	ug/L	2	5	
Potassium	50000.00	51030.00	ug/L	2	5	
Selenium	10000.00	10180.00	ug/L	2	5	
Silver	1000.000	1021.000	ug/L	2	5	
Sodium	50000.00	50760.00	ug/L	2	5	
Thallium	10000.00	10150.00	ug/L	2	5	
Vanadium	5000.000	5095.000	ug/L	2	5	
Zinc	5000.000	5091.000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14406749002 Filename : icp178895 Injected : 08-OCT-2004 11:11
Caltype :

Standards: 04WS1780

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	1000.000	1059.000	ug/L	6	10	
Antimony	2000.000	1978.000	ug/L	-1	10	
Arsenic	2000.000	1994.000	ug/L	0	10	
Barium	1000.000	1062.000	ug/L	6	10	
Beryllium	2000.000	1968.000	ug/L	-2	10	
Boron	1000.000	967.0000	ug/L	-3	10	
Cadmium	2000.000	2029.000	ug/L	1	10	
Calcium	2000.000	2068.000	ug/L	3	10	
Chromium	2000.000	2003.000	ug/L	0	10	
Cobalt	2000.000	2024.000	ug/L	1	10	
Copper	2000.000	2002.000	ug/L	0	10	
Iron	2000.000	1994.000	ug/L	0	10	
Lead	2000.000	1940.000	ug/L	-3	10	
Magnesium	2000.000	2038.000	ug/L	2	10	
Manganese	2000.000	2019.000	ug/L	1	10	
Molybdenum	2000.000	2081.000	ug/L	4	10	
Nickel	2000.000	2039.000	ug/L	2	10	
Potassium	10000.00	10100.00	ug/L	1	10	
Selenium	2000.000	1922.000	ug/L	-4	10	
Silver	1000.000	1041.000	ug/L	4	10	
Sodium	10000.00	9751.000	ug/L	-2	10	
Thallium	2000.000	2160.000	ug/L	8	10	
Tin	2000.000	1826.000	ug/L	-9	10	
Titanium	2000.000	1880.000	ug/L	-6	10	
Vanadium	2000.000	1972.000	ug/L	-1	10	
Zinc	2000.000	2001.000	ug/L	0	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14406749004 Filename : icp178897 Injected : 08-OCT-2004 11:22
Caltype :

Standards: 04WS1773

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	111.2000	ug/L	11	50	
Antimony	60.00000	48.58000	ug/L	-19	50	
Arsenic	500.0000	536.8000	ug/L	7	50	
Barium	10.00000	11.78000	ug/L	18	50	
Beryllium	2.000000	1.830000	ug/L	-9	50	
Boron	100.0000	71.94000	ug/L	-28	50	
Cadmium	5.000000	4.999000	ug/L	0	50	
Calcium	500.0000	540.1000	ug/L	8	50	
Chromium	10.00000	13.82000	ug/L	38	50	
Cobalt	20.00000	18.36000	ug/L	-8	50	
Copper	10.00000	10.76000	ug/L	8	50	
Iron	100.0000	105.4000	ug/L	5	50	
Lead	300.0000	311.1000	ug/L	4	50	
Magnesium	500.0000	523.7000	ug/L	5	50	
Manganese	10.00000	9.920000	ug/L	-1	50	
Molybdenum	20.00000	19.48000	ug/L	-3	50	
Nickel	20.00000	22.94000	ug/L	15	50	
Phosphorus	100.0000	1629.000	ug/L	**1529**	50	cri+ ***
Potassium	500.0000	467.4000	ug/L	-7	50	
Selenium	500.0000	503.3000	ug/L	1	50	
Silver	5.000000	4.099000	ug/L	-18	50	
Sodium	500.0000	459.0000	ug/L	-8	50	
Thallium	500.0000	541.2000	ug/L	8	50	
Tin	40.00000	56.93000	ug/L	42	50	
Titanium	10.00000	10.06000	ug/L	1	50	
Vanadium	10.00000	12.77000	ug/L	28	50	
Zinc	20.00000	23.70000	ug/L	19	50	

+=high bias
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14406749014
Run Name :
Filename : icp178907
IDF : 1.0
Injected : 08-OCT-2004 12:07
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1043.000	ug/L	4	10	
Antimony		2000.000	1937.000	ug/L	-3	10	
Arsenic		2000.000	1965.000	ug/L	-2	10	
Barium		1000.000	1032.000	ug/L	3	10	
Beryllium		2000.000	2012.000	ug/L	1	10	
Boron		1000.000	974.5000	ug/L	-3	10	
Cadmium		2000.000	2035.000	ug/L	2	10	
Calcium		2000.000	2078.000	ug/L	4	10	
Chromium		2000.000	1994.000	ug/L	0	10	
Cobalt		2000.000	2015.000	ug/L	1	10	
Copper		2000.000	2014.000	ug/L	1	10	
Iron		2000.000	1885.000	ug/L	-6	10	
Lead		2000.000	2033.000	ug/L	2	10	
Magnesium		2000.000	1955.000	ug/L	-2	10	
Manganese		2000.000	2023.000	ug/L	1	10	
Molybdenum		2000.000	2007.000	ug/L	0	10	
Nickel		2000.000	2047.000	ug/L	2	10	
Potassium		10000.00	10180.00	ug/L	2	10	
Selenium		2000.000	1900.000	ug/L	-5	10	
Silver		1000.000	1062.000	ug/L	6	10	
Sodium		10000.00	10140.00	ug/L	1	10	
Thallium		2000.000	2028.000	ug/L	1	10	
Tin		2000.000	1872.000	ug/L	-6	10	
Titanium		2000.000	1857.000	ug/L	-7	10	
Vanadium		2000.000	1996.000	ug/L	0	10	
Zinc		2000.000	2022.000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14406749026
Run Name :
Filename : icp178920
IDF : 1.0
Injected : 08-OCT-2004 12:51
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1039.000	ug/L	4	10	
Antimony		2000.000	1962.000	ug/L	-2	10	
Arsenic		2000.000	1992.000	ug/L	0	10	
Barium		1000.000	1024.000	ug/L	2	10	
Beryllium		2000.000	1926.000	ug/L	-4	10	
Boron		1000.000	1029.000	ug/L	3	10	
Cadmium		2000.000	2003.000	ug/L	0	10	
Calcium		2000.000	1970.000	ug/L	-2	10	
Chromium		2000.000	1992.000	ug/L	0	10	
Cobalt		2000.000	2008.000	ug/L	0	10	
Copper		2000.000	1999.000	ug/L	0	10	
Iron		2000.000	2011.000	ug/L	1	10	
Lead		2000.000	1942.000	ug/L	-3	10	
Magnesium		2000.000	1955.000	ug/L	-2	10	
Manganese		2000.000	2004.000	ug/L	0	10	
Molybdenum		2000.000	1984.000	ug/L	-1	10	
Nickel		2000.000	2024.000	ug/L	1	10	
Potassium		10000.00	10120.00	ug/L	1	10	
Selenium		2000.000	1976.000	ug/L	-1	10	
Silver		1000.000	1035.000	ug/L	4	10	
Sodium		10000.00	9691.000	ug/L	-3	10	
Thallium		2000.000	2054.000	ug/L	3	10	
Tin		2000.000	1996.000	ug/L	0	10	
Titanium		2000.000	1923.000	ug/L	-4	10	
Vanadium		2000.000	1957.000	ug/L	-2	10	
Zinc		2000.000	1976.000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14406749038
Run Name :
Filename : icp178932
IDF : 1.0
Injected : 08-OCT-2004 13:35
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1035.000	ug/L	4	10	
Antimony		2000.000	1911.000	ug/L	-4	10	
Arsenic		2000.000	1899.000	ug/L	-5	10	
Barium		1000.000	1010.000	ug/L	1	10	
Beryllium		2000.000	1915.000	ug/L	-4	10	
Boron		1000.000	1008.000	ug/L	1	10	
Cadmium		2000.000	1967.000	ug/L	-2	10	
Calcium		2000.000	1955.000	ug/L	-2	10	
Chromium		2000.000	1958.000	ug/L	-2	10	
Cobalt		2000.000	1962.000	ug/L	-2	10	
Copper		2000.000	1958.000	ug/L	-2	10	
Iron		2000.000	2021.000	ug/L	1	10	
Lead		2000.000	1938.000	ug/L	-3	10	
Magnesium		2000.000	1943.000	ug/L	-3	10	
Manganese		2000.000	1964.000	ug/L	-2	10	
Molybdenum		2000.000	1956.000	ug/L	-2	10	
Nickel		2000.000	2003.000	ug/L	0	10	
Potassium		10000.00	9848.000	ug/L	-2	10	
Selenium		2000.000	1898.000	ug/L	-5	10	
Silver		1000.000	1015.000	ug/L	2	10	
Sodium		10000.00	9613.000	ug/L	-4	10	
Thallium		2000.000	2037.000	ug/L	2	10	
Tin		2000.000	1973.000	ug/L	-1	10	
Titanium		2000.000	1878.000	ug/L	-6	10	
Vanadium		2000.000	1925.000	ug/L	-4	10	
Zinc		2000.000	1942.000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14406749044

Run Name :
Filename : icp178938

IDF : 1.0
Injected : 08-OCT-2004 13:55
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1021.000	ug/L	2	10	
Antimony		2000.000	1817.000	ug/L	-9	10	
Arsenic		2000.000	1874.000	ug/L	-6	10	
Barium		1000.000	978.6000	ug/L	-2	10	
Beryllium		2000.000	1860.000	ug/L	-7	10	
Boron		1000.000	992.8000	ug/L	-1	10	
Cadmium		2000.000	1926.000	ug/L	-4	10	
Calcium		2000.000	1925.000	ug/L	-4	10	
Chromium		2000.000	1897.000	ug/L	-5	10	
Cobalt		2000.000	1899.000	ug/L	-5	10	
Copper		2000.000	1895.000	ug/L	-5	10	
Iron		2000.000	1852.000	ug/L	-7	10	
Lead		2000.000	1880.000	ug/L	-6	10	
Magnesium		2000.000	1906.000	ug/L	-5	10	
Manganese		2000.000	1902.000	ug/L	-5	10	
Molybdenum		2000.000	1899.000	ug/L	-5	10	
Nickel		2000.000	1956.000	ug/L	-2	10	
Potassium		10000.00	9557.000	ug/L	-4	10	
Selenium		2000.000	1865.000	ug/L	-7	10	
Silver		1000.000	990.6000	ug/L	-1	10	
Sodium		10000.00	9453.000	ug/L	-5	10	
Thallium		2000.000	1998.000	ug/L	0	10	
Tin		2000.000	1926.000	ug/L	-4	10	
Titanium		2000.000	1812.000	ug/L	-9	10	
Vanadium		2000.000	1866.000	ug/L	-7	10	
Zinc		2000.000	1895.000	ug/L	-5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14406749003 Run Name: Injected: 08-OCT-2004 11:16
Filename: icp178896 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	[3.0970]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[18.720]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	ND	100.0000	ug/L	<RL	
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	368500.0	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[2.8880]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14406749015 Run Name: Injected: 08-OCT-2004 12:11
Filename: icp178908 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[21.880]	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.9453]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	ND	100.0000	ug/L	<RL	
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	381400.0	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14406749027 Run Name: Injected: 08-OCT-2004 13:08
Filename: icp178921 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	ND	100.0000	ug/L	<RL	
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	379100.0	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14406749039 Run Name: Injected: 08-OCT-2004 13:37
Filename: icp178933 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.2480]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[25.400]	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	ND	100.0000	ug/L	<RL	
Potassium	[322.60]	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	380200.0	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	[2.1930]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14406749045 Run Name: Injected: 08-OCT-2004 13:57
Filename: icp178939 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.4850]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[3.6260]	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	ND	100.0000	ug/L	<RL	
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	383900.0	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[3.3490]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14406749005 Run Name: Injected: 08-OCT-2004 11:30
Filename: icp178898 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[0.3329]	60.00000	ug/L	<RL	
Arsenic	[60.300]	500.0000	ug/L	<RL	
Barium	[1.2460]	10.00000	ug/L	<RL	
Beryllium	[0.000]	2.000000	ug/L	<RL	
Boron	[-59.39]	100.0000	ug/L	<RL	
Cadmium	[-2.694]	5.000000	ug/L	<RL	
Chromium	[-4.042]	10.00000	ug/L	<RL	
Cobalt	[-8.230]	20.00000	ug/L	<RL	
Copper	[-1.129]	10.00000	ug/L	<RL	
Lead	[-8.586]	300.0000	ug/L	<RL	
Manganese	[-6.728]	10.00000	ug/L	<RL	
Molybdenum	[-5.560]	20.00000	ug/L	<RL	
Nickel	[1.0210]	20.00000	ug/L	<RL	
Phosphorus	8132.000	100.0000	ug/L	<RL	a+ ***
Potassium	[291.80]	500.0000	ug/L	<RL	
Selenium	[52.830]	500.0000	ug/L	<RL	
Silicon	219100.0	200.0000	ug/L	<RL	a+ ***
Silver	[0.0407]	5.000000	ug/L	<RL	
Sodium	[-202.9]	500.0000	ug/L	<RL	
Sulfide	8.948000	1.000000	mg/L	<RL	a+ ***
Thallium	[92.930]	500.0000	ug/L	<RL	
Tin	-59.2700	40.00000	ug/L	<RL	
Titanium	[2.2130]	10.00000	ug/L	<RL	
Vanadium	[-0.526]	10.00000	ug/L	<RL	
Zinc	[-15.18]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	535800	ug/L	107
Calcium	500000	2117000	ug/L	423
Iron	200000	183400	ug/L	92
Magnesium	500000	503300	ug/L	101

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Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14406749006 Filename : icp178899 Injected : 08-OCT-2004 11:33
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	539100.0	ug/L	8		
Antimony	2000.000	1934.000	ug/L	-3	20	
Arsenic	2000.000	2082.000	ug/L	4	20	
Barium	500.0000	487.5000	ug/L	-3	20	
Beryllium	500.0000	483.9000	ug/L	-3	20	
Cadmium	1000.000	998.5000	ug/L	0	20	
Calcium	500000.0	2163000	ug/L	333		
Chromium	500.0000	475.4000	ug/L	-5	20	
Cobalt	500.0000	471.6000	ug/L	-6	20	
Copper	500.0000	498.0000	ug/L	0	20	
Iron	200000.0	182300.0	ug/L	-9		
Lead	1000.000	1073.000	ug/L	7	20	
Magnesium	500000.0	510600.0	ug/L	2		
Manganese	500.0000	471.6000	ug/L	-6	20	
Molybdenum	500.0000	472.9000	ug/L	-5	20	
Nickel	1000.000	960.8000	ug/L	-4	20	
Selenium	2000.000	2175.000	ug/L	9	20	
Silver	1000.000	987.2000	ug/L	-1	20	
Thallium	2000.000	1949.000	ug/L	-3	20	
Titanium	2000.000	1871.000	ug/L	-6	20	
Vanadium	500.0000	477.9000	ug/L	-4	20	
Zinc	1000.000	1017.000	ug/L	2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14406749043
Run Name :
Filename : icp178937
Injected : 08-OCT-2004 13:48
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	515400.0	ug/L	3		
Antimony	2000.000	1829.000	ug/L	-9	20	
Arsenic	2000.000	1976.000	ug/L	-1	20	
Barium	500.0000	466.4000	ug/L	-7	20	
Beryllium	500.0000	455.5000	ug/L	-9	20	
Cadmium	1000.000	933.5000	ug/L	-7	20	
Calcium	500000.0	1919000	ug/L	284		
Chromium	500.0000	450.4000	ug/L	-10	20	
Cobalt	500.0000	441.6000	ug/L	-12	20	
Copper	500.0000	468.9000	ug/L	-6	20	
Iron	200000.0	173900.0	ug/L	-13		
Lead	1000.000	848.2000	ug/L	-15	20	
Magnesium	500000.0	485800.0	ug/L	-3		
Manganese	500.0000	447.4000	ug/L	-11	20	
Molybdenum	500.0000	461.7000	ug/L	-8	20	
Nickel	1000.000	923.0000	ug/L	-8	20	
Selenium	2000.000	1889.000	ug/L	-6	20	
Silver	1000.000	930.9000	ug/L	-7	20	
Thallium	2000.000	1909.000	ug/L	-5	20	
Titanium	2000.000	1816.000	ug/L	-9	20	
Vanadium	500.0000	461.0000	ug/L	-8	20	
Zinc	1000.000	955.2000	ug/L	-4	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14406749 Instrument: MET01 TJA ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	icp17889	CS				08-OCT-2004 11:09	1.0	1.0			1	1:SI=165100
002	icp17889	ICV				08-OCT-2004 11:11	1.0	1.0			2	1:SI=195600
003	icp17889	ICB				08-OCT-2004 11:16	1.0	1.0	1			1:SI=368500
004	icp17889	CRI				08-OCT-2004 11:22	1.0	1.0	1		3	1:SI=158800
005	icp17889	ICSA				08-OCT-2004 11:30	1.0	1.0	3		4	5:CA=2117000
006	icp17889	ICSAB				08-OCT-2004 11:33	1.0	1.0			5	5:CA=2163000
007	icp17890	BLANK	QC267306	95280	Soil	08-OCT-2004 11:46	1.0	50.0	7			1:SI=154300
008	icp17890	BS	QC267307	95280	Soil	08-OCT-2004 11:49	1.0	50.0	3			1:SI=172900
009	icp17890	BSD	QC267308	95280	Soil	08-OCT-2004 11:51	1.0	50.0	3			1:SI=175700
010	icp17890	MSS	174988-004	95280	Soil	08-OCT-2004 11:54	1.0	49.50	20			4:CA=1842000
011	icp17890	SER	QC267311	95280	Soil	08-OCT-2004 11:57	5.0	49.50				1:SI=283000
012	icp17890	MSS	174988-004	95280	Soil	08-OCT-2004 12:00	5.0	49.50	6			1:SI=288200
013	icp17890	SER	QC267311	95280	Soil	08-OCT-2004 12:02	25.0	49.50				1:SI=246900
014	icp17890	CCV				08-OCT-2004 12:07	1.0	1.0			6	1:SI=199700
015	icp17890	CCB				08-OCT-2004 12:11	1.0	1.0	1			1:SI=381400
016	icp17891	MS	QC267309	95280	Soil	08-OCT-2004 12:18	1.0	49.02	13	2		4:CA=1846000
017	icp17891	MSD	QC267310	95280	Soil	08-OCT-2004 12:21	1.0	53.76	13	1		4:CA=1889000
018	icp17891	MS	QC267309	95280	Soil	08-OCT-2004 12:24	5.0	49.02	2	4		1:SI=315000
019	icp17891	MSD	QC267310	95280	Soil	08-OCT-2004 12:26	5.0	53.76	1	2		1:SI=320200
020	icp17891	PDS	QC267350	95280	Soil	08-OCT-2004 12:30	1.0	49.50			7 8	4:CA=1871000
021	icp17891	MSS	174988-006	95280	Soil	08-OCT-2004 12:33	5.0	44.25	6			1:SI=331900
022	icp17891	MS	QC267312	95280	Soil	08-OCT-2004 12:36	5.0	40.65	1			1:SI=300100
023	icp17891	MSD	QC267313	95280	Soil	08-OCT-2004 12:38	5.0	36.76	1	2		1:SI=306600
024	icp17891	MSS	174988-009	95280	Soil	08-OCT-2004 12:41	5.0	45.45	6			1:SI=335400
025	icp17891	MS	QC267314	95280	Soil	08-OCT-2004 12:43	5.0	37.31	1	2		1:SI=297100
026	icp17892	CCV				08-OCT-2004 12:51	1.0	1.0			6	1:SI=206300
027	icp17892	CCB				08-OCT-2004 13:08	1.0	1.0	1			1:SI=379100
028	icp17892	MSD	QC267315	95280	Soil	08-OCT-2004 13:10	5.0	35.46	1	8		1:SI=312400
029	icp17892	MSS	174988-017	95280	Soil	08-OCT-2004 13:13	5.0	53.76	6			1:SI=303700
030	icp17892	MS	QC267316	95280	Soil	08-OCT-2004 13:15	5.0	38.17	3			2:SI=287200
031	icp17892	MSD	QC267317	95280	Soil	08-OCT-2004 13:18	5.0	45.87	1	2		1:SI=301900

Stds used: 1=04WS1622 2=04WS1780 3=04WS1773 4=04WS1702 5=04WS1846 6=04WS1781 7=04SS171 8=04SS172

Analyst: Date: 10/08/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14406749 Instrument: MET01 TJA ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	icp17892	SAMPLE	175141-001	95280	Soil	08-OCT-2004 13:21	5.0	34.48			1:SI=304100
033	icp17892	SAMPLE	175141-002	95280	Soil	08-OCT-2004 13:23	5.0	46.30			1:SI=298200
034	icp17892	SAMPLE	175141-003	95280	Soil	08-OCT-2004 13:25	5.0	35.46			1:SI=311600
035	icp17892	SAMPLE	175141-004	95280	Soil	08-OCT-2004 13:28	5.0	43.10			1:SI=298400
036	icp17893	SAMPLE	175141-005	95280	Soil	08-OCT-2004 13:30	5.0	50.51			1:SI=290100
037	icp17893	SAMPLE	175141-006	95280	Soil	08-OCT-2004 13:32	5.0	48.54			1:SI=303200
038	icp17893	CCV				08-OCT-2004 13:35	1.0	1.0		6	1:SI=198900
039	icp17893	CCB				08-OCT-2004 13:37	1.0	1.0	1		1:SI=380200
040	icp17893	SAMPLE	175141-007	95280	Soil	08-OCT-2004 13:40	5.0	35.46			1:SI=296100
041	icp17893	SAMPLE	175141-009	95280	Soil	08-OCT-2004 13:43	5.0	42.02			1:SI=290200
042	icp17893	SAMPLE	175141-010	95280	Soil	08-OCT-2004 13:46	5.0	44.64			1:SI=313700
043	icp17893	ICSAB				08-OCT-2004 13:48	1.0	1.0		5	6:CA=1919000
044	icp17893	CCV				08-OCT-2004 13:55	1.0	1.0		6	1:SI=198200
045	icp17893	CCB				08-OCT-2004 13:57	1.0	1.0	1		1:SI=383900

99

Stds used: 1=04WS1622 2=04WS1780 3=04WS1773 4=04WS1702 5=04WS1846 6=04WS1781 7=04SS171 8=04SS172

Analyst: _____ Date: 10/08/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 175141 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	TL	V	ZN
175141-001	MET07	10/08/04 10:59	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-001	MET01	10/08/04 13:21	5.0									+										
175141-001	MET04	10/13/04 18:12	1.0												+							
175141-002	MET07	10/08/04 11:03	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-002	MET01	10/08/04 13:23	5.0									+										
175141-003	MET07	10/08/04 11:08	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-003	MET01	10/08/04 13:25	5.0									+										
175141-004	MET07	10/08/04 11:12	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-004	MET01	10/08/04 13:28	5.0									+										
175141-005	MET07	10/08/04 11:16	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-005	MET01	10/08/04 13:30	5.0									+										
175141-006	MET07	10/08/04 11:20	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-006	MET01	10/08/04 13:32	5.0									+										
175141-007	MET07	10/08/04 11:24	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-007	MET01	10/08/04 13:40	5.0									+										
175141-009	MET07	10/08/04 11:28	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-009	MET01	10/08/04 13:43	5.0									+										
175141-009	MET04	10/13/04 18:20	1.0												+							
175141-010	MET07	10/08/04 11:32	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
175141-010	MET01	10/08/04 13:46	5.0									+										
QC267306	MET07	10/08/04 09:03	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC267306	MET01	10/08/04 11:46	1.0																			
QC267307	MET07	10/08/04 09:07	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC267307	MET01	10/08/04 11:49	1.0																			
QC267308	MET07	10/08/04 09:11	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC267308	MET01	10/08/04 11:51	1.0																			
QC267309	MET07	10/08/04 09:52	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267309	MET01	10/08/04 12:18	1.0									+										
QC267309	MET01	10/08/04 12:24	5.0																			
QC267310	MET07	10/08/04 09:56	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267310	MET01	10/08/04 12:21	1.0									+										
QC267310	MET01	10/08/04 12:26	5.0																			
QC267311	MET07	10/08/04 09:22	5.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267311	MET01	10/08/04 11:57	5.0																			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 175141 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	TL	V	ZN
QC267311	MET01	10/08/04 12:02	25.0									+										
QC267312	MET07	10/08/04 10:05	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267312	MET01	10/08/04 12:36	5.0									+										
QC267313	MET07	10/08/04 10:09	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267313	MET01	10/08/04 12:38	5.0									+										
QC267314	MET07	10/08/04 10:19	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267314	MET01	10/08/04 12:43	5.0									+										
QC267315	MET07	10/08/04 10:23	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267315	MET01	10/08/04 13:10	5.0									+										
QC267316	MET07	10/08/04 10:33	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	
QC267316	MET01	10/08/04 13:15	5.0									+										+
QC267317	MET07	10/08/04 10:54	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	
QC267317	MET01	10/08/04 13:18	5.0									+										+
QC267350	MET07	10/08/04 09:27	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC267350	MET01	10/08/04 12:30	1.0																			
QC268049	MET04	10/13/04 18:05	1.0												+							
QC268050	MET04	10/13/04 18:07	1.0												+							
QC268051	MET04	10/13/04 18:10	1.0												+							
QC268052	MET04	10/13/04 18:16	1.0												+							
QC268053	MET04	10/13/04 18:18	1.0												+							

Curtis & Tompkins Laboratories **Sample Preparation Summary** **08-OCT-2004 09:07**

Batch Number : 95280
Date Extracted: 08-OCT-2004
Extracted by : Victor Vergara
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174988-004		Tetra Tech EMI	Soil	1.01	g	50	49.504950	1					TAL/ICP		mss
174988-006		Tetra Tech EMI	Soil	1.13	g	50	44.247788	1					TAL/ICP		mss
174988-009		Tetra Tech EMI	Soil	1.1	g	50	45.454545	1					TAL/ICP		mss
174988-017		Tetra Tech EMI	Soil	.93	g	50	53.763441	1					TAL/ICP		mss
175141-001		Treadwell & Rollo	Soil	1.45	g	50	34.482759	1					T26/ICP		
175141-002		Treadwell & Rollo	Soil	1.08	g	50	46.296296	1					T26/ICP		
175141-003		Treadwell & Rollo	Soil	1.41	g	50	35.460993	1					T26/ICP		
175141-004		Treadwell & Rollo	Soil	1.16	g	50	43.103448	1					T26/ICP		
175141-005		Treadwell & Rollo	Soil	.99	g	50	50.505051	1					T26/ICP		
175141-006		Treadwell & Rollo	Soil	1.03	g	50	48.543689	1					T26/ICP		
175141-007		Treadwell & Rollo	Soil	1.41	g	50	35.460993	1					T26/ICP		
175141-009		Treadwell & Rollo	Soil	1.19	g	50	42.016807	1					T26/ICP		
175141-010		Treadwell & Rollo	Soil	1.12	g	50	44.642857	1					T26/ICP		
QC267306	BLANK		Soil	1	g	50	50.000000	1					ICAP		
QC267307	BS		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC267308	BSD		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC267309	MS	of 174988-004	Soil	1.02	g	50	49.019608	1		.5	.5		ICAP		
QC267310	MSD	of 174988-004	Soil	.93	g	50	53.763441	1		.5	.5		ICAP		
QC267311	SER	of 174988-004	Soil	1.01	g	50	49.504950	1					ICAP		
QC267312	MS	of 174988-006	Soil	1.23	g	50	40.650407	1		.5	.5		ICAP		
QC267313	MSD	of 174988-006	Soil	1.36	g	50	36.764706	1		.5	.5		ICAP		
QC267314	MS	of 174988-009	Soil	1.34	g	50	37.313433	1		.5	.5		ICAP		
QC267315	MSD	of 174988-009	Soil	1.41	g	50	35.460993	1		.5	.5		ICAP		
QC267316	MS	of 174988-017	Soil	1.31	g	50	38.167939	1		.5	.5		ICAP		
QC267317	MSD	of 174988-017	Soil	1.09	g	50	45.871560	1		.5	.5		ICAP		
QC267350	PDS	of 174988-004	Soil	1.01	g	50	49.504950	1					ICAP		

Prep Chemist: for VV Reviewed By: Date: 10/08/04

Relinquished By: for VV Received By: Date: 10/08/04

td.

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 95280
Date Digested: 10/7/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 2000
Page 49

	Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BlkQC 267306	Ø	50.0	Y	
✱	BS 267307	↓			
✱	BSD 267308	↓			
✱	174988-004MS A	1.02			
✱	-004MSD	0.93			
✱	-005 MS	1.23			
✱	-005 MSD	1.36			
✱	-017 MS	1.31			
✱	-017 MSD	1.09			
10	-004	1.01			MSS
	-006	1.13			
	-009	1.10			
	-017	0.93			
	175141-001 A	1.45			
15	-002	1.08			
	-003	1.41			
	-004	1.16			
	-005	0.99			
	-006	1.03			
20	-007	1.41			
	-009	1.19			
	-010	1.12			
	174988-009 MS A	1.34			
	-009 MSD	1.41			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	VV 10/7/04
0.5 mL of spike solution was added to all spikes	045S171✱	
	045S172✱	
1:1 HNO3	A26032-092704	
concentrated HNO3	A26032- JT Baker	
3mL 30% hydrogen peroxide	44138425 - VWR	
concentrated HCl	A21033 - JT Baker	
☒ filtered thru' Whatman # 541	E1566057	

10/7/04
Extraction Chemist / Date

70
Continued from page Ø
Continued on page Ø

10/08/04
Reviewed by / Date

Folder: 101304a
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.   Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  1        14:55:20 13 Oct 04    HG

Hg     .000    ppb       272

*** Standard: 2 Rep: 1                Seq:  2        14:57:15 13 Oct 04    HG

Hg     .200    ppb       15014

*** Standard: 3 Rep: 1                Seq:  3        14:59:14 13 Oct 04    HG

Hg     .500    ppb       33175

*** Standard: 4 Rep: 1                Seq:  4        15:01:14 13 Oct 04    HG

Hg     2.00    ppb       132797

*** Standard: 5 Rep: 1                Seq:  5        15:03:12 13 Oct 04    HG

Hg     5.00    ppb       318926

*** Standard: 6 Rep: 1                Seq:  6        15:05:27 13 Oct 04    HG

Hg     10.0    ppb       658395

*** Check Standard: 2  Ck2WS1949      Seq:  7        15:10:38 13 Oct 04    HG
Line   Flag   %Rcv.    Found    True   Units      SD/RSD
Hg            99.3     4.97     5.00   ppb         .000  %

*** Check Standard: 1  Ck1ICB         Seq:  8        15:12:49 13 Oct 04    HG
Line   Flag   Found Range(+/-) Units      SD/RSD
Hg            .018     .000     ppb        .000  %

*** Sample ID: QC267991               Seq:  9        15:14:39 13 Oct 04    HG
                          95439,1
Hg     .034    ppb       .000  %   .034
=============================================================================
*** Sample ID: QC267992               Seq:  10       15:16:37 13 Oct 04    HG
                          95439,1
Hg     4.92    ppb       .000  %   4.92                                    =
=============================================================================
*** Sample ID: QC267993               Seq:  11       15:18:35 13 Oct 04    HG
                          95439,1
Hg     4.97    ppb       .000  %   4.97                                    =
=============================================================================
```

WinHg Database 1.3

Utility Help

RN RN

Protocol hgppb

Dataset/Proto 101304a /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.52704e-5

C 1.34806e-3

Rho .999861

Type Linear

☑ Calibrated

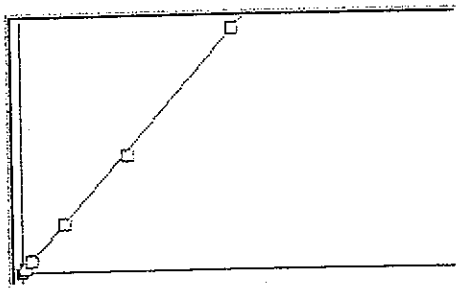
☑ Accepted

Accept

Rel. Abs. 658395

Accepted

New



Include S1 Rep 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Conc. 20.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.006	.006	273	0	272		
02	.20000	.231	.031	15014	0%	15014		
03	.50000	.508	.008	33175	0%	33175		
04	2.0000	2.03	.029	132797	0%	132797		
05	5.0000	4.87	-.129	318927	0%	318926		
06	10.000	10.1	.055	658396	0%	658395		

Ready

CAP NUM

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44414361 Instrument: MET04 HydraAA HG Analyzer Begun: 13-OCT-2004
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	95453	CCV					13-OCT-2004 18:01	1.0	1.0	1	5.000	44414175001	4.830		ug/L	97		
002	95453	CCB					13-OCT-2004 18:03	1.0	1.0			44414175001	ND	0.20	ug/L			
003	95453	BLANK	QC268049		95453	Soil	13-OCT-2004 18:05	1.0	100.0			44414175001	ND	0.020	mg/Kg			u
004	95453	BS	QC268050		95453	Soil	13-OCT-2004 18:07	1.0	100.0		0.5000	44414175001	0.4600	0.020	mg/Kg	92		u
005	95453	BSD	QC268051		95453	Soil	13-OCT-2004 18:10	1.0	100.0		0.5000	44414175001	0.4650	0.020	mg/Kg	93	1	u
006	95453	MSS	175141-001		95453	Soil	13-OCT-2004 18:12	1.0	94.34			44414175001	ND	0.019	mg/Kg			u
007	95453	MS	QC268052	175141-001	95453	Soil	13-OCT-2004 18:16	1.0	94.34		0.4717	44414175001	0.4575	0.019	mg/Kg	96		u
008	95453	MSD	QC268053	175141-001	95453	Soil	13-OCT-2004 18:18	1.0	87.72		0.4386	44414175001	0.4202	0.018	mg/Kg	94	1	u
009	95453	SAMPLE	175141-009		95453	Soil	13-OCT-2004 18:20	1.0	89.29			44414175001	ND	0.018	mg/Kg			u
010	95453	SAMPLE	175175-006		95453	Soil	13-OCT-2004 18:22	1.0	96.15			44414175001	0.20	0.019	mg/Kg			u
011	95453	SAMPLE	175175-007		95453	Soil	13-OCT-2004 18:25	1.0	83.33			44414175001	0.093	0.017	mg/Kg			u
012	95453	CCV					13-OCT-2004 18:27	1.0	1.0	2	2.500	44414175001	2.460		ug/L	98		
013	95453	CCB					13-OCT-2004 18:29	1.0	1.0			44414175001	[0.002000]	0.20	ug/L			
014	95453	SAMPLE	175175-009		95453	Soil	13-OCT-2004 18:31	1.0	86.21			44414175001	0.062	0.017	mg/Kg			u
015	95453	SAMPLE	175190-001		95453	Soil	13-OCT-2004 18:33	1.0	94.34			44414175001	0.53	0.019	mg/Kg			u
016	95453	SAMPLE	175190-002		95453	Soil	13-OCT-2004 18:36	1.0	104.2			44414175001	2.3 >LR	0.021	mg/Kg			! >LR ca
017	95453	SAMPLE	175190-003		95453	Soil	13-OCT-2004 18:37	1.0	94.34			44414175001	0.18	0.019	mg/Kg			u
018	95453	SAMPLE	175190-004		95453	Soil	13-OCT-2004 18:39	1.0	86.21			44414175001	0.60	0.017	mg/Kg			u
019	95453	SAMPLE	175201-001		95453	Soil	13-OCT-2004 18:41	1.0	92.59			44414175001	0.22	0.019	mg/Kg			u
020	95453	SAMPLE	175201-002		95453	Soil	13-OCT-2004 18:43	1.0	104.2			44414175001	0.026	0.021	mg/Kg			u
021	95453	SAMPLE	175231-001		95453	Soil	13-OCT-2004 18:45	1.0	92.59			44414175001	0.041	0.019	mg/Kg			u
022	95453	SAMPLE	175231-002		95453	Soil	13-OCT-2004 18:48	1.0	100.0			44414175001	0.59	0.020	mg/Kg			u
023	95453	SAMPLE	175231-003		95453	Soil	13-OCT-2004 18:50	1.0	89.29			44414175001	0.58	0.018	mg/Kg			u
024	95453	CCV					13-OCT-2004 18:52	1.0	1.0	1	5.000	44414175001	4.950		ug/L	99		
025	95453	CCB					13-OCT-2004 18:54	1.0	1.0			44414175001	ND	0.20	ug/L			
026	95453	SAMPLE	175231-004		95453	Soil	13-OCT-2004 18:56	1.0	90.91			44414175001	0.35	0.018	mg/Kg			u
027	95453	SAMPLE	175190-002		95453	Soil	13-OCT-2004 19:02	20.0	104.2			44414175001	2.5	0.42	mg/Kg			u
028	95453	CCV					13-OCT-2004 19:05	1.0	1.0	3	7.500	44414175001	7.450		ug/L	99		
029	95453	CCB					13-OCT-2004 19:07	1.0	1.0			44414175001	ND	0.20	ug/L			

Stds used: 1=04WS1951 2=04WS1950 3=04WS1952
Flags used: !=calc err >LR=overrange b=noncompliant calc=calculation error u=use

Analyst: _____ Date: 10/13/04

Curtis & Tompkins Laboratories Sample Preparation Summary 13-OCT-2004 16:38

Batch Number : 95453
Date Extracted: 13-OCT-2004
Extracted by : Morris Luong Tran
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : 04WS1947
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175141-001			Treadwell & Rollo	Soil	.53	g	50	94.339623	1					HG		
175141-009			Treadwell & Rollo	Soil	.56	g	50	89.285714	1					HG		
175175-006			LFR Levine Fricke	Soil	.52	g	50	96.153846	1					T26/HG		
175175-007			LFR Levine Fricke	Soil	.6	g	50	83.333333	1					T26/HG		
175175-009			LFR Levine Fricke	Soil	.58	g	50	86.206897	1					T26/HG		
175190-001			URS Corporation	Soil	.53	g	50	94.339623	1					T26/HG		
175190-002			URS Corporation	Soil	.48	g	50	104.166667	1					T26/HG		
175190-003			URS Corporation	Soil	.53	g	50	94.339623	1					T26/HG		
175190-004			URS Corporation	Soil	.58	g	50	86.206897	1					T26/HG		
175201-001			URS Corporation	Soil	.54	g	50	92.592593	1					T26/HG		
175201-002			URS Corporation	Soil	.48	g	50	104.166667	1					T26/HG		
175231-001			URS Corporation	Soil	.54	g	50	92.592593	1					T26/HG		
175231-002			URS Corporation	Soil	.5	g	50	100.000000	1					T26/HG		
175231-003			URS Corporation	Soil	.56	g	50	89.285714	1					T26/HG		
175231-004			URS Corporation	Soil	.55	g	50	90.909091	1					T26/HG		
QC268049	MB			Soil	.5	g	50	100.000000	1					HG		
QC268050	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC268051	BSD	of QC268050		Soil	.5	g	50	100.000000	1		2.5			HG		
QC268052	MS	of 175141-001		Soil	.53	g	50	94.339623	1		2.5			HG		
QC268053	MSD	of 175141-001		Soil	.57	g	50	87.719298	1		2.5			HG		
QC268054	SER	of 175141-001		Soil	.53	g	50	94.339623	1					HG		

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 95453
Date Digested: 10/13/04
Digested by: [illegible]

Digestion Method
☒ EPA 7471A
☐ _____

BK 2003
Page 10

Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
175141 - 1 B	0.53	50.0	y	
9 B	0.56			
175190 - 1	0.53			Comp 4 Cores
2	0.48			4 Cores
3	0.53			4 Cores
4	0.58			4 Cores
175175 - 6 A	0.52			
7 A	0.60			
9 B	0.58			
175201 - 1	0.54			Comp. 4 Cores
2	0.48			"
175231 - 1	0.54			Comp. 5 Cores
2	0.50			Comp. 4 Cores
3	0.53			Comp 4 Cores
4	0.55			Comp 4 Cores
LCS	0.50			
BS				
BSD				
175141-1 MS	0.53			
1 MSD	0.57			

B = 2.5 mL of spike solution was added to all spikes

	Reagent ID/ LIMS# / Time	Initials / Date
ICAL Source WS#	04WS 1947	[illegible] 10/13
ICV / CCV WS#	04WS 1947	
Digestion of Samples & Standards: Time ON / Temperature ON	04WS 1949/50/51/52	
Time OFF/ Temperature OFF	4:45 / 95°C	
Aqua Regia Acids (HNO3+ HCl)	5:15 / 95°C	
5% $KMnO_4$	AR 10/13/04	
NaCl.hydroxylamine hydrochloride	K 10/07/04	
Stannous Chloride	HY 09/30/04	
☐ filtered thru' 0.45 um syringe filter	SnCl2 10/10/04	
	7 MN6OV36 Millipore	

[illegible] 10/13/04
Prep Chemist / Date

Continued from page 0
Continued on page 0

[illegible]
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050B

Analyte	Units	MET01	MET07	MET08 A	MET08 R
Aluminum	mg/Kg	07/26/04 1.5	07/21/04 0.52		09/10/04 1.3
Antimony	mg/Kg	07/20/04 1.3	07/21/04 0.20	09/10/04 0.076	
Arsenic	mg/Kg	07/26/04 2.8	07/20/04 0.10	09/10/04 0.10	
Barium	mg/Kg	07/27/04 0.098	07/21/04 0.013		09/10/04 0.033
Beryllium	mg/Kg	07/20/04 0.029	07/21/04 0.0063	09/10/04 0.0056	
Cadmium	mg/Kg	07/20/04 0.14	07/21/04 0.028	09/10/04 0.0076	
Calcium	mg/Kg	07/26/04 2.8	07/21/04 0.58		09/10/04 1.5
Chromium	mg/Kg	07/20/04 0.29	07/21/04 0.033	09/10/04 0.013	
Cobalt	mg/Kg	07/20/04 0.39	07/21/04 0.076	09/10/04 0.0087	
Copper	mg/Kg	07/20/04 0.11	07/21/04 0.057	09/10/04 0.069	
Iron	mg/Kg	07/20/04 1.5	07/21/04 0.80		09/10/04 0.33
Lead	mg/Kg	07/26/04 7.9	07/20/04 0.065	09/10/04 0.078	
Magnesium	mg/Kg	07/20/04 1.5	07/21/04 0.52		09/10/04 1.2
Manganese	mg/Kg	07/20/04 0.11	07/20/04 0.11		09/10/04 0.023
Molybdenum	mg/Kg	07/20/04 0.43	07/21/04 0.062	09/10/04 0.032	
Nickel	mg/Kg	07/20/04 0.64	07/21/04 0.067	09/10/04 0.017	
Potassium	mg/Kg	07/27/04 18			09/17/04 3.7
Selenium	mg/Kg	07/27/04 8.1	07/21/04 0.17	09/10/04 0.18	
Silver	mg/Kg	07/26/04 0.18	07/21/04 0.098	09/10/04 0.032	
Sodium	mg/Kg	07/26/04 2.8			09/17/04 3.2
Thallium	mg/Kg	07/26/04 9.5	07/21/04 0.21	09/10/04 0.17	
Vanadium	mg/Kg	07/20/04 0.14	07/21/04 0.045	09/10/04 0.039	
Zinc	mg/Kg	07/20/04 0.17	07/21/04 0.17		09/10/04 0.091
Boron	mg/Kg	07/27/04 3.1		09/17/04 0.32	
Tin	mg/Kg	07/26/04 1.0		09/17/04 0.085	
Titanium	mg/Kg	07/26/04 0.099			09/17/04 0.068

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Soil

Analyte	Units	MET03		MET04	
Mercury	mg/Kg	05/15/03	0.0050	03/30/04	0.0039

ICP Raw Data

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74406516 Instrument: MET07 TJA Trace ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr250599	CS				08-OCT-2004 07:16	1.0	1.0			1	
002	tr250600	ICV				08-OCT-2004 08:03	1.0	1.0			2	
003	tr250601	ICB				08-OCT-2004 08:15	1.0	1.0				
004	tr250602	CRI				08-OCT-2004 08:23	1.0	1.0			3	
005	tr250603	ICSA				08-OCT-2004 08:33	1.0	1.0	2		4	4:AL=535000
006	tr250604	X	200 ppm Fe			08-OCT-2004 08:46	1.0					
007	tr250605	ICSA				08-OCT-2004 08:50	1.0	1.0	1		4	4:AL=543900
008	tr250606	ICSAB				08-OCT-2004 08:54	1.0	1.0			5	5:AL=544000
009	tr250607	BLANK	QC267306	95280	Soil	08-OCT-2004 09:03	1.0	50.0	1			
010	tr250608	BS	QC267307	95280	Soil	08-OCT-2004 09:07	1.0	50.0	1			
011	tr250609	BSD	QC267308	95280	Soil	08-OCT-2004 09:11	1.0	50.0	1			
012	tr250610	MSS	174988-004	95280	Soil	08-OCT-2004 09:17	1.0	49.50	5			4:CA=592100
013	tr250611	SER	QC267311	95280	Soil	08-OCT-2004 09:22	5.0	49.50		1		2:CA=128500
014	tr250612	PDS	QC267350	95280	Soil	08-OCT-2004 09:27	1.0	49.50			6 7	5:CA=594500
015	tr250613	CCV				08-OCT-2004 09:39	1.0	1.0			8	
016	tr250614	CCB				08-OCT-2004 09:47	1.0	1.0				
017	tr250615	MS	QC267309	95280	Soil	08-OCT-2004 09:52	1.0	49.02				7:FE=567100
018	tr250616	MSD	QC267310	95280	Soil	08-OCT-2004 09:56	1.0	53.76		1		6:CA=567800
019	tr250617	MSS	174988-006	95280	Soil	08-OCT-2004 10:01	1.0	44.25	4			4:FE=475900
020	tr250618	MS	QC267312	95280	Soil	08-OCT-2004 10:05	1.0	40.65				4:AL=550600
021	tr250619	MSD	QC267313	95280	Soil	08-OCT-2004 10:09	1.0	36.76				4:AL=619500
022	tr250620	MSS	174988-009	95280	Soil	08-OCT-2004 10:15	1.0	45.45	4			3:FE=438300
023	tr250621	MS	QC267314	95280	Soil	08-OCT-2004 10:19	1.0	37.31		1		4:FE=658500
024	tr250622	MSD	QC267315	95280	Soil	08-OCT-2004 10:23	1.0	35.46		1		4:AL=583700
025	tr250623	MSS	174988-017	95280	Soil	08-OCT-2004 10:29	1.0	53.76	5			4:FE=606300
026	tr250624	MS	QC267316	95280	Soil	08-OCT-2004 10:33	1.0	38.17				5:FE=943500
027	tr250625	CCV				08-OCT-2004 10:46	1.0	1.0			9	
028	tr250626	CCB				08-OCT-2004 10:49	1.0	1.0				
029	tr250627	MSD	QC267317	95280	Soil	08-OCT-2004 10:54	1.0	45.87				5:FE=746900
030	tr250628	SAMPLE	175141-001	95280	Soil	08-OCT-2004 10:59	1.0	34.48	1			4:FE=410000
031	tr250629	SAMPLE	175141-002	95280	Soil	08-OCT-2004 11:03	1.0	46.30	1			3:FE=280300

Stds used: 1=04WS1891 2=04WS1863 3=04WS1488 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS1864 9=04WS1679

Analyst: Mei Wu Date: 10/8/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74406516 Instrument: MET07 TJA Trace ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr250630	SAMPLE	175141-003	95280	Soil	08-OCT-2004 11:08	1.0	35.46	1		3:FE=392500
033	tr250631	SAMPLE	175141-004	95280	Soil	08-OCT-2004 11:12	1.0	43.10	1		3:FE=319900
034	tr250632	SAMPLE	175141-005	95280	Soil	08-OCT-2004 11:16	1.0	50.51	1		3:FE=306900
035	tr250633	SAMPLE	175141-006	95280	Soil	08-OCT-2004 11:20	1.0	48.54	1		3:FE=352500
036	tr250634	SAMPLE	175141-007	95280	Soil	08-OCT-2004 11:24	1.0	35.46	1		3:FE=441900
037	tr250635	SAMPLE	175141-009	95280	Soil	08-OCT-2004 11:28	1.0	42.02	1		3:FE=306400
038	tr250636	SAMPLE	175141-010	95280	Soil	08-OCT-2004 11:32	1.0	44.64	1		3:FE=226000
039	tr250637	CCV				08-OCT-2004 11:39	1.0	1.0	1	8	
040	tr250638	CCB				08-OCT-2004 11:48	1.0	1.0			
041	tr250639	ICSAB				08-OCT-2004 11:52	1.0	1.0		5	5:MG=513400

80

Stds used: 1=04WS1891 2=04WS1863 3=04WS1488 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS1864 9=04WS1679

Analyst: Marcie Date: 10/8/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 74406516030	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250628	Batchnum	: 95280	Injected	: 08-OCT-2004 10:59
IDF	: 1.0			Units	: mg/Kg

Prep: 1.45 g --> 50.0 ml = 34.48 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.1		u
Arsenic	2.9	0.17	**0.16**	B u
Barium	11	0.34		u
Beryllium	0.12	0.069		u
Cadmium	0.77	0.17		u
Chromium	50	0.34	0.051	u
Cobalt	5.2	0.69		u
Copper	3.6	0.34		u
Iron	14000 **>LR**	3.4	**2.9**	>LR >c+ B b*
Lead	2.5	0.10		u
Manganese	140	**0.34**		u y
Molybdenum	ND	0.69		u
Nickel	22	0.69		u
Selenium	ND	0.17		u
Silver	ND	0.17		u
Thallium	ND	0.17		u
Vanadium	43	0.34		u
Zinc	20	0.69		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-002	Cident	: BB4EX101[0.5]
Seqnum	: 74406516031	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250629	Batchnum	: 95280	Injected	: 08-OCT-2004 11:03
IDF	: 1.0			Units	: mg/Kg

Prep: 1.08 g --> 50.0 ml = 46.30 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.8		u
Arsenic	2.9	0.23	**0.16**	B u
Barium	17	0.46		u
Beryllium	0.12	0.093		u
Cadmium	0.70	0.23		u
Chromium	38	0.46	0.051	u
Cobalt	5.2	0.93		u
Copper	4.7	0.46		u
Iron	13000 **>LR**	4.6	**2.9**	>LR >c+ B b*
Lead	9.6	0.14		u
Manganese	150	**0.46**		u y
Molybdenum	ND	0.93		u
Nickel	21	0.93		u
Selenium	ND	0.23		u
Silver	ND	0.23		u
Thallium	ND	0.23		u
Vanadium	39	0.46		u
Zinc	23	0.93		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-003	Cident	: BB4EX102[0.5]
Seqnum	: 74406516032	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250630	Batchnum	: 95280	Injected	: 08-OCT-2004 11:08
IDF	: 1.0			Units	: mg/Kg

Prep: 1.41 g --> 50.0 ml = 35.46 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.1		u
Arsenic	3.2	0.18	**0.16**	B u
Barium	17	0.35		u
Beryllium	0.11	0.071		u
Cadmium	0.74	0.18		u
Chromium	39	0.35	0.051	u
Cobalt	5.0	0.71		u
Copper	3.7	0.35		u
Iron	14000 >LR	3.5	**2.9**	>LR >c+ B b*
Lead	2.2	0.11		u
Manganese	150	**0.35**		u y
Molybdenum	ND	0.71		u
Nickel	19	0.71		u
Selenium	ND	0.18		u
Silver	ND	0.18		u
Thallium	ND	0.18		u
Vanadium	41	0.35		u
Zinc	16	0.71		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-004	Cident	: BB4EX103[0.5]
Seqnum	: 74406516033	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250631	Batchnum	: 95280	Injected	: 08-OCT-2004 11:12
IDF	: 1.0			Units	: mg/Kg

Prep: 1.16 g --> 50.0 ml = 43.10 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.6		u
Arsenic	3.1	0.22	**0.16**	B u
Barium	16	0.43		u
Beryllium	0.11	0.086		u
Cadmium	0.72	0.22		u
Chromium	41	0.43	0.051	u
Cobalt	5.1	0.86		u
Copper	3.8	0.43		u
Iron	14000 **>LR**	4.3	**2.9**	>LR >c+ B b*
Lead	2.6	0.13		u
Manganese	140	**0.43**		u y
Molybdenum	ND	0.86		u
Nickel	20	0.86		u
Selenium	ND	0.22		u
Silver	ND	0.22		u
Thallium	ND	0.22		u
Vanadium	41	0.43		u
Zinc	17	0.86		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-005	Cident	: BB4EX104[0.5]
Seqnum	: 74406516034	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250632	Batchnum	: 95280	Injected	: 08-OCT-2004 11:16
IDF	: 1.0			Units	: mg/Kg

Prep: 0.99 g --> 50.0 ml = 50.51 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	3.0		u
Arsenic	3.5	0.25	**0.16**	B u
Barium	23	0.51		u
Beryllium	0.13	0.10		u
Cadmium	0.84	0.25		u
Chromium	46	0.51	0.051	u
Cobalt	5.5	1.0		u
Copper	6.1	0.51		u
Iron	16000 **>LR**	5.1	**2.9**	>LR >c+ B **b***
Lead	30	0.15		u
Manganese	190	**0.51**		u y
Molybdenum	ND	1.0		u
Nickel	22	1.0		u
Selenium	ND	0.25		u
Silver	ND	0.25		u
Thallium	ND	0.25		u
Vanadium	41	0.51		u
Zinc	34	1.0		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-006	Cident	: BB4EX105[0.5]
Seqnum	: 74406516035	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250633	Batchnum	: 95280	Injected	: 08-OCT-2004 11:20
IDF	: 1.0			Units	: mg/Kg

Prep: 1.03 g --> 50.0 ml = 48.54 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.9		u
Arsenic	3.7	0.24	**0.16**	B u
Barium	19	0.49		u
Beryllium	0.14	0.097		u
Cadmium	0.90	0.24		u
Chromium	57	0.49	0.051	u
Cobalt	6.1	0.97		u
Copper	4.6	0.49		u
Iron	17000 **>LR**	4.9	**2.9**	>LR >c+ B b*
Lead	3.2	0.15		u
Manganese	170	**0.49**		u y
Molybdenum	ND	0.97		u
Nickel	24	0.97		u
Selenium	ND	0.24		u
Silver	ND	0.24		u
Thallium	ND	0.24		u
Vanadium	53	0.49		u
Zinc	23	0.97		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-007	Cident	: BB4EX106[0.5]
Seqnum	: 74406516036	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250634	Batchnum	: 95280	Injected	: 08-OCT-2004 11:24
IDF	: 1.0			Units	: mg/Kg

Prep: 1.41 g --> 50.0 ml = 35.46 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.1		u
Arsenic	2.9	0.18	**0.16**	B u
Barium	16	0.35		u
Beryllium	0.14	0.071		u
Cadmium	0.84	0.18		u
Chromium	52	0.35	0.051	u
Cobalt	5.8	0.71		u
Copper	4.5	0.35		u
Iron	16000 **>LR**	3.5	**2.9**	>LR >c+ B **b***
Lead	10	0.11		u
Manganese	160	**0.35**		u **y**
Molybdenum	ND	0.71		u
Nickel	24	0.71		u
Selenium	ND	0.18		u
Silver	ND	0.18		u
Thallium	ND	0.18		u
Vanadium	48	0.35		u
Zinc	28	0.71		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 74406516037	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250635	Batchnum	: 95280	Injected	: 08-OCT-2004 11:28
IDF	: 1.0			Units	: mg/Kg

Prep: 1.19 g --> 50.0 ml = 42.02 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.5		u
Arsenic	3.0	0.21	**0.16**	B u
Barium	12	0.42		u
Beryllium	0.14	0.084		u
Cadmium	0.67	0.21		u
Chromium	50	0.42	0.051	u
Cobalt	5.2	0.84		u
Copper	3.2	0.42		u
Iron	13000 **>LR**	4.2	**2.9**	>LR >c+ B b*
Lead	2.2	0.13		u
Manganese	140	**0.42**		u y
Molybdenum	ND	0.84		u
Nickel	23	0.84		u
Selenium	ND	0.21		u
Silver	ND	0.21		u
Thallium	ND	0.21		u
Vanadium	38	0.42		u
Zinc	18	0.84		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	175141-010	Cident	: BB4EX107[0.5]
Seqnum	: 74406516038	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr250636	Batchnum	: 95280	Injected	: 08-OCT-2004 11:32
IDF	: 1.0			Units	: mg/Kg

Prep: 1.12 g --> 50.0 ml = 44.64 ml/g PDF

Analyte	Result	RL	B=tr250607	Flags
Antimony	ND	2.7		u
Arsenic	2.5	0.22	**0.16**	B u
Barium	17	0.45		u
Beryllium	0.13	0.089		u
Cadmium	0.52	0.22		u
Chromium	33	0.45	0.051	u
Cobalt	4.5	0.89		u
Copper	3.4	0.45		u
Iron	10000 **>LR**	4.5	**2.9**	>LR >c+ B b*
Lead	1.7	0.13		u
Manganese	180	**0.45**		u y
Molybdenum	ND	0.89		u
Nickel	19	0.89		u
Selenium	ND	0.22		u
Silver	ND	0.22		u
Thallium	ND	0.22		u
Vanadium	29	0.45		u
Zinc	20	0.89		u

+=high bias >=closing >LR=overrange B=method blank contamination b=noncompliant c=CCV u=use y=RL raised

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	QC267306	Cident	:
Seqnum	: 74406516009	Matrix	: Soil	Acctnum	:
Filename	: tr250607	Batchnum	: 95280	Injected	: 08-OCT-2004 09:03
IDF	: 1.0			Units	: mg/Kg

Prep: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Result	RL	Flags
Aluminum	2.0 J	5.0	u
Antimony	ND	3.0	u
Arsenic	0.16 J	0.25	B u
Barium	ND	0.50	u
Beryllium	ND	0.10	u
Cadmium	ND	0.25	u
Calcium	4.3 J	25	u
Chromium	0.051 J	0.50	u
Cobalt	ND	1.0	u
Copper	ND	0.50	u
Iron	2.9 J	5.0	B u
Lead	ND	0.15	u
Magnesium	2.3 J	25	u
Manganese	ND	0.50	u
Molybdenum	ND	1.0	u
Nickel	ND	1.0	u
Selenium	ND	0.25	u
Silver	ND	0.25	u
Thallium	ND	0.25	u
Vanadium	ND	0.50	u
Zinc	ND	1.0	u
Titanium	ND	0.50	a+ b*

+=high bias B=method blank contamination a=ICSA b=noncompliant u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 74406516010	Seqnum : 74406516011
Filename : tr250608	Filename : tr250609
IDF : 1.0	IDF : 1.0
Run type : BS	Run type : BSD
Samplenum: QC267307	Samplenum: QC267308
Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 09:07	Inj : 08-OCT-2004 09:11
Units : mg/Kg	

BS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
BSD: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Spike Conc	BS	%Rec	BSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	1030	103	1074	107	79-120	4	20	u
Antimony	100.0	98.50	99	104.0	104	80-120	5	20	u
Arsenic	50.00	46.60	93	48.30	97	80-120	4	20	u
Barium	100.0	97.00	97	100.0	100	80-120	3	20	u
Beryllium	2.500	2.460	98	2.550	102	80-120	4	20	u
Cadmium	10.00	8.550	86	8.850	89	80-120	3	20	u
Calcium	1000	989.0	99	1030	103	80-120	4	20	u
Chromium	100.0	95.50	96	99.50	100	80-120	4	20	u
Cobalt	25.00	23.55	94	24.50	98	80-120	4	20	u
Copper	12.50	13.60	109	13.30	106	80-120	2	20	u
Iron	1000	928.0	93	966.5	97	80-120	4	20	u
Lead	100.0	93.00	93	97.50	98	80-120	5	20	u
Magnesium	1000	957.5	96	998.5	100	80-120	4	20	u
Manganese	25.00	23.95	96	24.90	100	80-120	4	20	u
Molybdenum	20.00	19.45	97	20.35	102	80-120	5	20	u
Nickel	25.00	22.20	89	23.05	92	80-120	4	20	u
Selenium	50.00	45.15	90	47.45	95	80-120	5	20	u
Silver	10.00	10.35	104	10.75	108	80-120	4	20	u
Thallium	50.00	45.30	91	47.45	95	79-120	5	20	u
Vanadium	25.00	24.80	99	25.80	103	80-120	4	20	u
Zinc	25.00	22.55	90	23.05	92	80-120	2	20	u
Titanium	50.00	52.00	104	54.00	108	80-120	4	20	a+ b*

+=high bias a=ICSA b=noncompliant u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74406516012	Seqnum : 74406516017	Seqnum : 74406516018
Filename : tr250610	Filename : tr250615	Filename : tr250616
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-004	Samplenum: QC267309	Samplenum: QC267310
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 09:17	Inj : 08-OCT-2004 09:52	Inj : 08-OCT-2004 09:56
Units : mg/Kg		

MSS: 1.01 g --> 50.0 ml = 49.50 ml/g PDF
MS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF
MSD: 0.93 g --> 50.0 ml = 53.76 ml/g PDF

Analyte	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	1.554 J	107.5	34.66 34	41.02 37	16-120	8	31	u
Arsenic	15.74	53.76	61.27 93	67.74 97	62-120	3	25	u
Barium	74.26	107.5	155.4 83	169.4 88	51-137	3	20	u
Beryllium	0.3228	2.688	2.534 90	2.839 94	70-120	3	20	u
Cadmium	1.302	10.75	10.29 92	11.40 94	61-120	2	20	u
Calcium	*** usable MSS data not found ***							
Chromium	38.66	107.5	132.8 96	144.6 99	60-120	2	20	u
Cobalt	11.98	26.88	35.39 96	38.55 99	56-120	2	20	u
Copper	39.06	13.44	55.39 133	56.45 129	47-144	0	20	u
Iron	*** usable MSS data not found ***							
Lead	189.6	107.5	267.6 80	314.0 116	47-126	13	28	u
Magnesium	*** usable MSS data not found ***							
Manganese	950.5	26.88	1265 >LR 1282	983.9 124	62-131	--	20	: >LR u
Molybdenum	0.7129 J	21.51	16.23 79	18.71 84	57-120	5	20	u
Nickel	38.96	26.88	72.55 137	76.34 139*	41-138	1	22	u
Selenium	ND	53.76	42.21 86	48.01 89	35-122	4	27	u
Silver	ND	10.75	9.167 94	10.38 97	71-120	3	20	u
Thallium	ND	53.76	42.99 88	48.66 91	53-120	3	23	u
Vanadium	42.62	26.88	73.04 124	77.42 129	48-136	2	20	u
Zinc	135.6	26.88	178.4 >LR 175	181.2 >LR 169	38-144	--	20	: >LR u
Titanium	*** usable MSS data not found ***							

:=recovery not meaningful >LR=overrange u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74406516019	Seqnum : 74406516020	Seqnum : 74406516021
Filename : tr250617	Filename : tr250618	Filename : tr250619
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-006	Samplenum: QC267312	Samplenum: QC267313
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 10:01	Inj : 08-OCT-2004 10:05	Inj : 08-OCT-2004 10:09
Units : mg/Kg		

MSS: 1.13 g --> 50.0 ml = 44.25 ml/g PDF
MS: 1.23 g --> 50.0 ml = 40.65 ml/g PDF
MSD: 1.36 g --> 50.0 ml = 36.76 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***									
Antimony	1.106	73.53	25.69	30	23.13	30	16-120	1	31	u
Arsenic	6.770	36.76	43.09	89	41.18	94	62-120	4	25	u
Barium	35.75	73.53	105.7	86	101.1	89	51-137	2	20	u
Beryllium	0.3991	1.838	2.175	87	2.040	89	70-120	2	20	u
Cadmium	1.310	7.353	8.171	84	7.684	87	61-120	2	20	u
Calcium	1664	735.3	2308	79	2259	81	40-149	1	20	u
Chromium	50.44	73.53	117.1	82	112.5	84	60-120	2	20	u
Cobalt	6.593	18.38	23.33	82	22.17	85	56-120	2	20	u
Copper	28.98	9.191	36.46	74	37.13	89	47-144	4	20	u
Iron	*** usable MSS data not found ***									
Lead	12.74	73.53	81.71	85	76.10	86	47-126	2	28	u
Magnesium	*** usable MSS data not found ***									
Manganese	135.0	18.38	151.2	80	156.3	116	62-131	5	20	: u
Molybdenum	0.4066	14.71	12.60	75	11.73	77	57-120	3	20	u
Nickel	40.22	18.38	55.28	74	54.41	77	41-138	2	22	u
Selenium	ND	36.76	33.21	82	30.37	83	35-122	1	27	u
Silver	ND	7.353	7.236	89	6.691	91	71-120	2	20	u
Thallium	ND	36.76	34.63	85	32.32	88	53-120	3	23	u
Vanadium	53.54	18.38	68.70	75	68.38	81	48-136	2	20	u
Zinc	40.80	18.38	56.50	77	55.51	80	38-144	1	20	u
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful u=use
Page 1 of 1

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74406516022	Seqnum : 74406516023	Seqnum : 74406516024
Filename : tr250620	Filename : tr250621	Filename : tr250622
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-009	Samplenum: QC267314	Samplenum: QC267315
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 10:15	Inj : 08-OCT-2004 10:19	Inj : 08-OCT-2004 10:23
Units : mg/Kg		

MSS: 1.10 g --> 50.0 ml = 45.45 ml/g PDF
MS: 1.34 g --> 50.0 ml = 37.31 ml/g PDF
MSD: 1.41 g --> 50.0 ml = 35.46 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***									
Antimony	1.068	70.92	24.10	31	22.52	30	16-120	2	31	u
Arsenic	7.636	35.46	42.54	94	35.82	79	62-120	13	25	u
Barium	33.00	70.92	104.5	96	92.55	84	51-137	9	20	u
Beryllium	0.3991	1.773	1.970	84	1.901	85	70-120	1	20	u
Cadmium	1.164	7.092	7.575	86	7.021	83	61-120	3	20	u
Calcium	1461	709.2	2294	112	1989	75	40-149	13	20	u
Chromium	47.27	70.92	107.1	80	105.3	82	60-120	1	20	u
Cobalt	7.455	17.73	22.43	80	21.88	81	56-120	1	20	u
Copper	32.09	8.865	36.04	42*	37.59	62	47-144	5	20	u
Iron	*** usable MSS data not found ***									
Lead	12.86	70.92	77.24	86	73.05	85	47-126	1	28	u
Magnesium	*** usable MSS data not found ***									
Manganese	150.9	17.73	208.6	309	158.5	43	62-131	27*	20	: u
Molybdenum	0.4682 J	14.18	11.72	75	10.92	74	57-120	2	20	u
Nickel	39.45	17.73	52.61	71	52.84	75	41-138	2	22	u
Selenium	ND	35.46	30.60	82	29.22	82	35-122	0	27	u
Silver	ND	7.092	6.530	88	6.170	87	71-120	1	20	u
Thallium	ND	35.46	32.13	86	30.50	86	53-120	0	23	u
Vanadium	50.00	17.73	62.31	66	62.77	72	48-136	2	20	u
Zinc	41.18	17.73	54.10	69	55.32	80	38-144	4	20	u
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74406516025	Seqnum : 74406516026	Seqnum : 74406516029
Filename : tr250623	Filename : tr250624	Filename : tr250627
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-017	Samplenum: QC267316	Samplenum: QC267317
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 10:29	Inj : 08-OCT-2004 10:33	Inj : 08-OCT-2004 10:54
Units : mg/Kg		

MSS: 0.93 g --> 50.0 ml = 53.76 ml/g PDF
MS: 1.31 g --> 50.0 ml = 38.17 ml/g PDF
MSD: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***									
Antimony	2.210 J	91.74	26.91	32	35.83	37	16-120	11	31	u
Arsenic	19.68	45.87	50.76	81	61.93	92	62-120	7	25	u
Barium	160.2	91.74	220.6	79	254.1	102	51-137	8	20	u
Beryllium	0.4849	2.294	2.111	85	2.596	92	70-120	6	20	u
Cadmium	8.118	9.174	12.79	61	15.55	81	61-120	10	20	u
Calcium	2631	917.4	3137	66	3743	121	40-149	13	20	u
Chromium	77.96	91.74	134.0	73	156.0	85	60-120	6	20	u
Cobalt	21.34	22.94	32.18	57	37.39	70	56-120	6	20	u
Copper	482.3	11.47	269.8	-2226	281.7	-1749	47-144	4	20	: u
Iron	*** usable MSS data not found ***									
Lead	407.0	91.74	373.7	-44	427.5	22	47-126	10	28	: u
Magnesium	*** usable MSS data not found ***									
Manganese	897.8	22.94	564.9	-1745	642.2	-1115	62-131	12	20	: u
Molybdenum	0.9032 J	18.35	12.14	74	15.83	81	57-120	9	20	u
Nickel	86.02	22.94	87.02	5	99.54	59	41-138	10	22	: u
Selenium	ND	45.87	30.19	79	40.14	88	35-122	10	27	u
Silver	0.3672	9.174	7.252	90	9.266	97	71-120	7	20	u
Thallium	ND	45.87	32.44	85	41.88	91	53-120	7	23	u
Vanadium	62.90	22.94	75.95	68	84.86	96	48-136	6	20	u
Zinc	*** usable MSS data not found ***									
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful u=use
Page 1 of 1

Analysis Report 10/08/04 07:20:00 AM page 1

Method: 6010B Sample Name: 04ws1891 Operator: pps
Run Time: 10/08/04 07:16:26
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	955.	977.	484.	962.	98.4	96.9	195.
SDev	4.	15.	3.	13.	.9	1.4	2.
%RSD	.382	1.58	.665	1.38	.929	1.40	1.27
#1	953.	988.	486.	971.	99.0	97.9	197.
#2	958.	966.	482.	953.	97.7	96.0	193.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	488.	194.	488.	485.	973.	486.	491.
SDev	4.	2.	8.	1.	3.	5.	5.
%RSD	.866	1.16	1.60	.268	.268	1.04	1.09
#1	491.	196.	494.	486.	971.	490.	495.
#2	485.	193.	483.	484.	974.	483.	487.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	474.	97.3	488.	487.	97.0	952.9	1984.
SDev	12.	.5	1.	5.	1.1	14.8	19.
%RSD	2.45	.499	.211	1.10	1.14	1.558	.9622
#1	466.	97.7	489.	491.	97.7	963.4	1997.
#2	482.	97.0	488.	483.	96.2	942.4	1970.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	978.3	1966.	97.7	486.	970.	480.	971.
SDev	5.3	18.	1.0	3.	9.	6.	10.
%RSD	.5394	.9055	1.05	.714	.936	1.24	1.08
#1	982.0	1979.	98.5	488.	976.	476.	979.
#2	974.6	1953.	97.0	484.	964.	484.	964.

Analysis Report 10/08/04 08:06:29 AM page 1

Method: 6010B Sample Name: 04ws1863 Operator: pps
Run Time: 10/08/04 08:03:08
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	488.	497.	233.	496.	47.3	46.2	95.6
SDev	4.	3.	1.	1.	.0	.1	.0
%RSD	.723	.535	.441	.104	.027	.289	.006
#1	485.	499.	234.	497.	47.3	46.3	95.6
#2	490.	496.	233.	496.	47.2	46.1	95.6

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	230.	101.	236.	231.	482.	232.	229.
SDev	.	.	1.	2.	.	.	1.
%RSD	.125	.153	.432	.900	.081	.035	.574
#1	230.	101.	237.	230.	481.	232.	230.
#2	230.	101.	235.	233.	482.	232.	228.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	229.	51.0	228.	240.	46.4	465.3	941.3
SDev	1.	.4	6.	.	.0	.4	.5
%RSD	.393	.763	2.67	.010	.075	.0835	.0520
#1	230.	50.7	224.	240.	46.4	465.6	941.0
#2	229.	51.3	233.	240.	46.4	465.1	941.7

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	466.9	908.8	46.7	233.	494.	229.	494.
SDev	6.3	5.8	.0	1.	1.	1.	.
%RSD	1.352	.6433	.061	.450	.121	.453	.019
#1	462.4	904.7	46.7	232.	495.	230.	495.
#2	471.3	912.9	46.7	234.	494.	229.	494.

Analysis Report 10/08/04 08:22:30 AM page 1

Method: 6010B Sample Name: icb Operator: pps
Run Time: 10/08/04 08:15:53
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.38	-1.40	1.63	.048	.080	.163	.211
SDev	.16	.51	.19	.031	.062	.007	.138
%RSD	6.53	36.6	11.4	65.5	78.0	4.08	65.3
#1	-2.49	-1.77	1.50	.070	.124	.159	.309
#2	-2.27	-1.04	1.76	.026	.036	.168	.114

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.251	-.018	1.77	.259	.110	.090	.762
SDev	.535	.028	.37	.083	.315	.317	.192
%RSD	214.	160.	20.8	32.1	286.	353.	25.1
#1	.128	.002	2.03	.318	-.113	.314	.898
#2	-.629	-.038	1.51	.201	.333	-.134	.627

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.39	-.470	-1.02	-.048	-.144	1.137	.6055
SDev	1.11	.077	.51	.162	.187	2.891	.6928
%RSD	46.7	16.3	49.8	339.	130.	254.2	114.4
#1	1.60	-.416	-.660	.067	-.276	-.9071	.1156
#2	3.18	-.524	-1.38	-.162	-.011	3.181	1.095

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.9530	-1.217	.045	.762	-1.73	1.85	-.374
SDev	2.6848	.153	.017	.178	.39	.68	.280
%RSD	281.7	12.58	38.9	23.4	22.8	36.8	75.0
#1	-2.851	-1.108	.057	.888	-2.01	1.37	-.572
#2	.9455	-1.325	.032	.636	-1.45	2.33	-.176

Analysis Report 10/08/04 08:26:26 AM page 1

Method: 6010B Sample Name: 04ws1488 Operator: pps
Run Time: 10/08/04 08:23:01
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	57.5	55.1	4.83	10.0	1.85	4.48	9.53
SDev	.4	3.7	.02	.1	.04	.07	.31
%RSD	.630	6.71	.396	1.37	2.16	1.56	3.26
#1	57.2	52.5	4.82	10.1	1.83	4.43	9.74
#2	57.7	57.7	4.85	9.91	1.88	4.53	9.31

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18.3	10.4	2.38	5.00	19.0	18.2	1.97
SDev	.4	.0	.20	2.46	.7	.4	3.41
%RSD	1.94	.165	8.27	49.2	3.75	2.19	173.
#1	18.5	10.4	2.52	6.74	18.5	18.5	-.444
#2	18.0	10.4	2.24	3.26	19.5	17.9	4.38

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.89	4.76	4.84	9.91	17.7	99.56	203.7
SDev	1.06	.41	2.24	.29	.1	3.98	.5
%RSD	18.0	8.52	46.3	2.92	.811	3.995	.2322
#1	6.64	5.05	6.43	9.70	17.8	102.4	204.1
#2	5.14	4.47	3.26	10.1	17.6	96.75	203.4

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	99.99	190.5	9.41	4.13	55.9	4.58	.011
SDev	.98	1.3	.10	1.71	2.6	.43	.245
%RSD	.9784	.6609	1.03	41.3	4.63	9.35	2260.
#1	99.30	191.4	9.48	5.33	54.1	4.28	.184
#2	100.7	189.6	9.34	2.92	57.7	4.88	-.162

Analysis Report 10/08/04 08:37:30 AM page 1

Method: 6010B Sample Name: 04ws1702 Operator: pps
Run Time: 10/08/04 08:33:55
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2.31	2.81	4.74	-.065	-.708	6.56	3.19
SDev	10.5	3.77	2.92	.009	.023	.59	.00
%RSD	456.	134.	61.5	13.7	3.30	9.06	.128
#1	-5.13	5.48	6.80	-.071	-.691	6.98	3.20
#2	9.75	.146	2.68	-.059	-.724	6.14	3.19

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.334	-2.75	-13.7	10.9	-.589	1.87	-.435
SDev	.184	.07	6.0	3.7	.275	.11	10.96
%RSD	55.1	2.71	44.0	33.8	46.7	5.78	2520.
#1	.204	-2.70	-9.43	8.27	-.395	1.94	7.32
#2	.464	-2.81	-18.0	13.5	-.784	1.79	-8.19

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-20.2	-.615	2.08	-3.42	-.200	535000.	447000.
SDev	2.3	.437	5.37	1.35	.026	1116.	1669.
%RSD	11.2	71.1	258.	39.3	13.1	.2085	.3732
#1	-21.8	-.925	-1.72	-2.47	-.181	535800.	448200.
#2	-18.6	-.306	5.88	-4.37	-.218	534300.	445900.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	172400.	487200.	2.85	2.68	2.65	-13.6	25.5
SDev	767.	2363.	.18	.44	.99	2.2	.4
%RSD	.4447	.4850	6.46	16.4	37.4	15.8	1.43
#1	172900.	488900.	2.72	2.37	1.95	-12.1	25.7
#2	171800.	485600.	2.98	2.99	3.35	-15.1	25.2

Analysis Report 10/08/04 08:49:59 AM page 1

Method: 6010B Sample Name: 200 ppm Fe Operator: pps
Run Time: 10/08/04 08:46:34
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.61	1.65	.297	-.196	-.196	4.24	-.084
SDev	.15	1.68	2.58	.043	.002	.10	.074
%RSD	3.25	102.	872.	22.0	1.17	2.35	88.4
#1	4.50	2.83	2.12	-.227	-.198	4.31	-.031
#2	4.71	.458	-1.53	-.166	-.194	4.17	-.136

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.52	-3.01	-.594	-1.72	-.706	2.13	2.38
SDev	.05	.16	.430	.64	.654	.13	3.89
%RSD	1.48	5.26	72.5	37.0	92.7	6.05	163.
#1	3.56	-2.89	-.898	-1.27	-.243	2.04	5.14
#2	3.49	-3.12	-.289	-2.17	-1.17	2.22	-.369

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-6.46	-.400	-9.31	-.800	-11.2	12.68	20.22
SDev	2.10	.442	1.50	.266	.0	2.24	1.83
%RSD	32.4	110.	16.1	33.3	.212	17.69	9.038
#1	-4.98	-.088	-10.4	-.612	-11.2	14.27	21.51
#2	-7.95	-.713	-8.25	-.989	-11.2	11.10	18.93

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	184300.	34.92	3.63	-1.34	2.63	-3.52	.738
SDev	109.	3.82	.02	.28	1.07	2.69	.031
%RSD	.0594	10.93	.496	20.9	40.7	76.6	4.15
#1	184200.	37.62	3.61	-1.15	3.39	-1.61	.716
#2	184300.	32.23	3.64	-1.54	1.88	-5.42	.760

Analysis Report 10/08/04 08:53:54 AM page 1

Method: 6010B Sample Name: 04ws1702 Operator: pps
Run Time: 10/08/04 08:50:28
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.13	.890	4.09	-.148	-.824	6.98	3.62
SDev	5.67	1.72	1.27	.039	.014	.18	.07
%RSD	111.	193.	31.0	26.7	1.64	2.63	2.01
#1	9.14	2.11	3.19	-.175	-.814	7.11	3.67
#2	1.12	-.327	4.99	-.120	-.833	6.85	3.57

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.433	-2.97	-12.5	11.7	-.624	2.22	3.46
SDev	.284	.07	3.2	2.4	.385	.10	2.90
%RSD	65.5	2.26	25.2	20.5	61.6	4.72	83.8
#1	.232	-3.02	-14.7	13.5	-.896	2.15	1.41
#2	.633	-2.92	-10.3	10.0	-.352	2.30	5.51

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-8.66	-.171	7.30	-3.47	.444	543900.	460100.
SDev	6.64	.692	2.31	.07	.306	3241.	2489.
%RSD	76.7	404.	31.7	2.12	68.9	.5959	.5410
#1	-3.96	-.661	8.94	-3.42	.661	546200.	461900.
#2	-13.4	.318	5.66	-3.52	.228	541600.	458400.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	175700.	499300.	2.45	3.67	2.30	-4.62	26.7
SDev	861.	2470.	.03	.56	3.04	3.46	.5
%RSD	.4903	.4948	1.12	15.2	132.	74.9	1.73
#1	176300.	501000.	2.43	4.06	4.45	-2.17	27.0
#2	175100.	497500.	2.47	3.27	.155	-7.07	26.4

Analysis Report 10/08/04 08:57:35 AM page 1

Method: 6010B Sample Name: 04ws1841 Operator: pps
Run Time: 10/08/04 08:54:27
Comment: 95123,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	550.	535.	486.	486.	479.	818.	464.
SDev	.	7.	4.	3.	2.	5.	3.
%RSD	.038	1.35	.916	.577	.478	.603	.565
#1	551.	541.	489.	488.	481.	821.	466.
#2	550.	530.	483.	484.	478.	815.	462.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	452.	523.	927.	913.	492.	828.	487.
SDev	2.	1.	1.	1.	1.	4.	.
%RSD	.387	.282	.138	.096	.171	.446	.043
#1	454.	524.	928.	914.	491.	831.	487.
#2	451.	522.	926.	913.	492.	826.	487.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	465.	950.	464.	480.	912.	544000.	461100.
SDev	.	4.	13.	3.	4.	2008.	1593.
%RSD	.049	.375	2.71	.563	.431	.3691	.3454
#1	465.	953.	473.	482.	915.	545400.	462200.
#2	465.	948.	455.	478.	910.	542500.	459900.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	175400.	500100.	463.	918.	540.	472.	21900.
SDev	867.	1999.	2.	1.	5.	.	111.
%RSD	.4941	.3998	.413	.110	.907	.017	.504
#1	176000.	501500.	464.	919.	544.	472.	22000.
#2	174800.	498600.	461.	917.	537.	472.	21900.

Analysis Report 10/08/04 09:07:15 AM page 1

Method: 6010B Sample Name: qc267306 Operator: pps
Run Time: 10/08/04 09:03:37
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.542	-2.57	3.17	.097	-.331	-.066	1.02
SDev	2.10	1.27	.42	.041	.023	.014	.19
%RSD	387.	49.3	13.3	42.4	7.05	21.6	18.8
#1	2.02	-3.46	2.88	.126	-.347	-.056	1.15
#2	-.940	-1.67	3.47	.068	-.314	-.076	.883

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.247	1.14	-.123	1.80	.179	.302	-3.01
SDev	.180	.29	1.947	.90	.797	.594	3.05
%RSD	72.6	25.4	1580.	49.7	445.	197.	101.
#1	-.121	1.34	1.25	2.44	.743	.722	-.851
#2	-.374	.934	-1.50	1.17	-.385	-.118	-5.16

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.48	-.512	2.04	-.045	2.06	40.53	85.46
SDev	1.39	.589	.95	.030	.30	13.10	7.91
%RSD	40.1	115.	46.4	66.7	14.4	32.33	9.255
#1	2.49	-.096	2.71	-.024	2.26	49.79	91.06
#2	4.46	-.929	1.37	-.066	1.85	31.26	79.87

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	57.90	45.16	.346	1.16	-1.53	1.32	2.77
SDev	12.62	9.24	.184	1.25	.15	.09	.78
%RSD	21.80	20.46	53.1	107.	9.49	6.66	28.0
#1	66.83	51.69	.476	2.04	-1.63	1.38	3.32
#2	48.98	38.62	.216	.280	-1.43	1.25	2.22

Analysis Report 10/08/04 09:11:21 AM page 1

Method: 6010B Sample Name: qc267307 Operator: pps
Run Time: 10/08/04 09:07:43
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1950.	1980.	932.	1940.	49.2	171.	1910.
SDev	103.	20.	8.	6.	.3	.	19.
%RSD	5.25	1.01	.874	.311	.685	.180	1.02
#1	1880.	1970.	926.	1930.	48.9	171.	1900.
#2	2030.	2000.	938.	1940.	49.4	171.	1920.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	471.	272.	1920.	1830.	389.	444.	940.
SDev	4.	2.	6.	75.	10.	2.	1.
%RSD	.954	.758	.318	4.09	2.69	.398	.140
#1	468.	270.	1910.	1770.	382.	443.	939.
#2	474.	273.	1920.	1880.	396.	445.	941.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	885.	207.	906.	496.	451.	20600.	19780.
SDev	59.	2.	13.	5.	5.	206.	188.
%RSD	6.64	.842	1.46	.917	1.05	.9980	.9506
#1	843.	206.	897.	493.	448.	20460.	19640.
#2	926.	208.	915.	499.	454.	20750.	19910.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18560.	19150.	479.	1860.	1970.	903.	1040.
SDev	201.	186.	5.	52.	48.	40.	11.
%RSD	1.084	.9719	1.01	2.79	2.41	4.38	1.04
#1	18420.	19020.	476.	1820.	1940.	875.	1030.
#2	18700.	19280.	483.	1890.	2010.	931.	1040.

Analysis Report 10/08/04 09:15:26 AM page 1

Method : 6010B Sample Name: qc267308 Operator: pps
Run Time: 10/08/04 09:11:48
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2080.	2080.	966.	2000.	51.0	177.	1990.
SDev	11.	23.	10.	28.	.6	3.	27.
%RSD	.530	1.11	1.05	1.39	1.15	1.41	1.34
#1	2090.	2090.	973.	2020.	51.4	179.	2010.
#2	2070.	2060.	959.	1980.	50.6	176.	1970.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	490.	266.	2000.	1930.	407.	461.	978.
SDev	7.	3.	26.	18.	1.	7.	10.
%RSD	1.47	1.26	1.31	.941	.316	1.53	1.05
#1	495.	268.	2010.	1940.	408.	466.	985.
#2	485.	263.	1980.	1910.	407.	456.	970.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	935.	215.	949.	516.	461.	21470.	20590.
SDev	7.	3.	6.	7.	6.	309.	273.
%RSD	.740	1.31	.657	1.43	1.40	1.437	1.325
#1	930.	217.	953.	521.	466.	21680.	20780.
#2	940.	213.	944.	511.	457.	21250.	20400.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19330.	19970.	498.	1950.	2080.	949.	1080.
SDev	261.	273.	7.	21.	19.	1.	15.
%RSD	1.350	1.367	1.32	1.07	.917	.124	1.37
#1	19510.	20160.	503.	1960.	2090.	948.	1090.
#2	19140.	19770.	493.	1930.	2060.	950.	1070.

Analysis Report 10/08/04 09:21:09 AM page 1

Method: 6010B' Sample Name: 174988-004 Operator: pps
Run Time: 10/08/04 09:17:32
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	33.7	30.3	318.	1500.	6.52	26.3	781.
SDev	6.6	10.5	5.	30.	.14	.4	13.
%RSD	19.4	34.8	1.60	2.02	2.18	1.35	1.61
#1	29.1	37.8	321.	1520.	6.62	26.6	790.
#2	38.4	22.9	314.	1480.	6.42	26.1	772.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	242.	789.	3950.	3770.	14.4	787.	18.5
SDev	4.	14.	56.	17.	1.5	14.	8.5
%RSD	1.61	1.72	1.42	.457	10.5	1.84	46.1
#1	245.	798.	3990.	3760.	15.5	798.	24.6
#2	239.	779.	3920.	3780.	13.3	777.	12.5

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-23.5	-1.70	-8.00	861.	2740.	329200.	592100.
SDev	5.9	.35	.72	16.	41.	4979.	7598.
%RSD	24.9	20.4	9.03	1.81	1.51	1.513	1.283
#1	-27.7	-1.95	-8.51	872.	2770.	332700.	597400.
#2	-19.4	-1.46	-7.49	850.	2710.	325700.	586700.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	494000.	104800.	19200.	3830.	31.4	-9.51	7970.
SDev	7077.	1492.	263.	7.	4.8	1.06	115.
%RSD	1.433	1.423	1.37	.187	15.4	11.1	1.44
#1	499000.	105900.	19400.	3840.	34.9	-10.3	8050.
#2	489000.	103800.	19000.	3830.	28.0	-8.76	7890.

Analysis Report 10/08/04 09:26:30 AM page 1

Method: 6010B Sample Name: ~~04ws2673I1~~ Operator: pps
Run Time: 10/08/04 09:22:25 ac 267311
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.29	6.37	61.6	299.	1.14	4.67	162.
SDev	4.58	4.24	3.3	4.	.15	.03	3.
%RSD	107.	66.6	5.41	1.33	12.8	.700	1.89
#1	1.05	9.37	59.3	296.	1.24	4.69	160.
#2	7.53	3.37	64.0	302.	1.04	4.65	164.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	50.3	155.	818.	777.	3.65	167.	4.09
SDev	.8	3.	2.	32.	.25	3.	2.69
%RSD	1.64	2.00	.234	4.16	6.81	1.71	65.8
#1	49.7	152.	817.	754.	3.82	165.	6.00
#2	50.9	157.	819.	800.	3.47	169.	2.19

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.78	-.559	.229	176.	556.	63320.	128500.
SDev	1.11	.028	.532	3.	10.	1277.	2501.
%RSD	40.1	4.93	232.	1.54	1.81	2.017	1.946
#1	-3.56	-.578	.605	174.	549.	62420.	126800.
#2	-1.99	-.539	-.147	178.	563.	64220.	130300.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	100300.	21280.	3590.	791.	5.68	-.488	1570.
SDev	1917.	406.	66.	22.	1.30	.155	30.
%RSD	1.911	1.908	1.83	2.81	22.9	31.8	1.91
#1	98960.	21000.	3540.	775.	6.60	-.378	1550.
#2	101700.	21570.	3640.	807.	4.76	-.598	1590.

Analysis Report 10/08/04 09:30:43 AM page 1

Method: 6010B Sample Name: qc267350 Operator: pps
Run Time: 10/08/04 09:27:30
Comment: 95280,04ss171,0.1/10,04ss172,0.1/10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1890.	1890.	1150.	3180.	49.1	166.	2400.
SDev	32.	13.	4.	11.	.2	.	6.
%RSD	1.70	.710	.356	.350	.390	.264	.256
#1	1860.	1880.	1150.	3190.	49.2	166.	2400.
#2	1910.	1900.	1140.	3170.	48.9	166.	2390.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	637.	1010.	5520.	5320.	363.	1130.	884.
SDev	2.	3.	1.	2.	2.	2.	2.
%RSD	.349	.337	.025	.042	.476	.182	.254
#1	638.	1010.	5520.	5320.	362.	1130.	883.
#2	635.	1000.	5520.	5320.	364.	1130.	886.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	815.	189.	780.	1270.	3060.	343200.	594500.
SDev	1.	.	5.	4.	8.	1207.	1703.
%RSD	.128	.070	.660	.313	.269	.3518	.2865
#1	816.	189.	784.	1280.	3070.	344000.	595700.
#2	814.	188.	777.	1270.	3050.	342300.	593300.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	499000.	119600.	19200.	5390.	1890.	838.	8780.
SDev	1610.	356.	70.	2.	20.	.	27.
%RSD	.3226	.2977	.363	.036	1.04	.006	.309
#1	500200.	119800.	19300.	5390.	1870.	838.	8800.
#2	497900.	119300.	19200.	5390.	1900.	838.	8760.

Analysis Report 10/08/04 09:47:15 AM page 1

Method: 6010B Sample Name: 04ws1864 Operator: pps
Run Time: 10/08/04 09:39:09
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	519.	508.	248.	498.	50.2	51.1	102.
SDev	3.	1.	2.	1.	.0	.1	1.
%RSD	.499	.174	.942	.119	.005	.226	.626
#1	521.	509.	250.	498.	50.2	51.1	101.
#2	517.	507.	247.	497.	50.2	51.2	102.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	246.	101.	252.	256.	508.	251.	240.
SDev	.	.	1.	.	2.	.	2.
%RSD	.114	.236	.330	.016	.387	.074	.886
#1	246.	101.	252.	256.	506.	251.	238.
#2	247.	101.	253.	256.	509.	251.	241.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	253.	50.7	253.	250.	52.1	497.7	1040.
SDev	1.	.1	5.	.	.4	1.8	3.
%RSD	.588	.267	1.99	.137	.751	.3521	.2762
#1	254.	50.6	250.	249.	51.8	499.0	1038.
#2	252.	50.8	257.	250.	52.4	496.5	1042.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	525.0	1015.	50.1	255.	512.	249.	516.
SDev	.4	3.	.0	.	1.	.	.
%RSD	.0704	.3334	.039	.120	.284	.114	.043
#1	524.7	1012.	50.1	255.	513.	249.	515.
#2	525.3	1017.	50.1	255.	511.	248.	516.

Analysis Report 10/08/04 09:51:19 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 10/08/04 09:47:58
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.086	-.340	1.98	.280	-.064	.116	.280
SDev	1.19	1.586	.60	.102	.108	.150	.040
%RSD	1380.	466.	30.6	36.2	170.	130.	14.1
#1	-.757	-1.46	2.40	.352	-.140	.010	.308
#2	.930	.781	1.55	.208	.013	.222	.252

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.317	.764	.139	.603	2.24	.489	1.37
SDev	.243	.455	3.38	.209	.62	.180	3.17
%RSD	76.5	59.6	2440.	34.7	27.6	36.8	230.
#1	-.146	1.09	2.53	.455	2.67	.617	3.61
#2	-.489	.442	-2.25	.751	1.80	.362	-.866

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.56	.061	3.00	-.019	-1.00	4.173	42.82
SDev	5.66	.128	1.65	.329	.40	5.857	2.06
%RSD	159.	208.	54.9	1720.	39.5	140.3	4.800
#1	-7.56	.152	1.84	.214	-.721	8.315	44.27
#2	.439	-.029	4.16	-.252	-1.28	.0317	41.37

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	24.18	27.89	.286	.448	-.198	-1.92	.544
SDev	.45	1.75	.060	.988	1.455	2.72	.729
%RSD	1.871	6.292	21.0	220.	734.	142.	134.
#1	23.86	26.65	.328	1.15	-1.23	-3.84	1.06
#2	24.50	29.13	.243	-.250	.831	.004	.029

Analysis Report 10/08/04 09:55:48 AM page 1

Method: 6010B Sample Name: qc267309 Operator: pps
Run Time: 10/08/04 09:52:10
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	712.	705.	1250.	3170.	51.7	210.	2710.
SDev	6.	1.	7.	33.	.5	2.	27.
%RSD	.823	.107	.561	1.05	.875	1.04	.992
#1	716.	705.	1260.	3190.	52.0	211.	2730.
#2	708.	704.	1250.	3140.	51.3	208.	2690.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	722.	1130.	5520.	5440.	331.	1480.	889.
SDev	8.	11.	43.	42.	4.	16.	11.
%RSD	1.07	1.02	.779	.780	1.15	1.09	1.27
#1	727.	1140.	5550.	5470.	329.	1490.	897.
#2	717.	1120.	5490.	5410.	334.	1470.	881.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	847.	187.	877.	1490.	3640.	466100.	538000.
SDev	15.	2.	1.	15.	35.	4331.	5393.
%RSD	1.79	1.00	.162	1.03	.973	.9293	1.003
#1	836.	189.	876.	1500.	3660.	469100.	541800.
#2	857.	186.	878.	1480.	3610.	463000.	534200.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	567100.	151900.	25800.	5460.	707.	861.	10600.
SDev	5681.	1452.	256.	43.	2.	6.	105.
%RSD	1.002	.9557	.992	.780	.347	.737	.988
#1	571100.	152900.	26000.	5490.	709.	856.	10700.
#2	563100.	150900.	25600.	5430.	705.	865.	10600.

Analysis Report 10/08/04 09:59:53 AM page 1

Method: 6010B Sample Name: qc267310 Operator: pps
Run Time: 10/08/04 09:56:15
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	754.	767.	1260.	3150.	52.8	212.	2690.
SDev	36.	8.	1.	2.	.1	.	6.
%RSD	4.77	.987	.081	.063	.140	.057	.221
#1	729.	773.	1260.	3150.	52.9	212.	2680.
#2	779.	762.	1260.	3150.	52.7	212.	2690.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	717.	1050.	5940.	5790.	348.	1420.	926.
SDev	1.	3.	4.	117.	2.	1.	13.
%RSD	.191	.312	.073	2.02	.635	.042	1.36
#1	716.	1050.	5940.	5710.	347.	1420.	935.
#2	718.	1050.	5940.	5870.	350.	1420.	917.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	876.	193.	905.	1440.	3370.	431200.	567800.
SDev	36.	.	12.	.	10.	1639.	1032.
%RSD	4.10	.104	1.29	.021	.291	.3801	.1817
#1	851.	193.	896.	1440.	3360.	430100.	567000.
#2	902.	193.	913.	1440.	3370.	432400.	568500.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	540900.	143100.	18300.	5840.	763.	893.	10800.
SDev	1653.	445.	62.	77.	7.	20.	33.
%RSD	.3056	.3112	.342	1.31	.910	2.21	.308
#1	539700.	142700.	18200.	5790.	758.	879.	10800.
#2	542000.	143400.	18300.	5890.	768.	907.	10800.

Analysis Report 10/08/04 10:05:26 AM page 1

Method: 6010B Sample Name: 174988-006 Operator: pps
Run Time: 10/08/04 10:01:49
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	46.2	14.4	153.	808.	9.02	29.6	1140.
SDev	14.6	18.1	3.	33.	.33	1.7	45.
%RSD	31.5	126.	2.09	4.04	3.61	5.70	3.94
#1	35.9	27.2	155.	831.	9.25	30.8	1170.
#2	56.5	1.59	150.	785.	8.79	28.4	1100.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	149.	655.	290.	286.	9.19	909.	.005
SDev	6.	25.	28.	2.	1.35	36.	15.7
%RSD	4.10	3.86	9.50	.789	14.7	3.94	287000.
#1	153.	673.	310.	285.	10.1	935.	11.1
#2	145.	637.	271.	288.	8.24	884.	-11.1

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-24.7	-1.38	-1.54	1210.	922.	474600.	37600.
SDev	19.5	.18	14.31	49.	35.	18783.	1432.
%RSD	78.9	13.1	929.	4.07	3.77	3.958	3.807
#1	-38.5	-1.51	-11.7	1250.	947.	487800.	38620.
#2	-10.9	-1.25	8.58	1180.	898.	461300.	36590.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	475900.	132300.	3050.	288.	25.0	-16.5	10600.
SDev	18361.	5060.	117.	8.	7.2	7.8	403.
%RSD	3.858	3.823	3.85	2.67	28.9	47.2	3.81
#1	488800.	135900.	3130.	293.	30.1	-22.0	10900.
#2	462900.	128800.	2970.	282.	19.9	-11.0	10300.

Analysis Report 10/08/04 10:09:31 AM page 1

Method: 6010B' Sample Name: qc267312 Operator: pps
Run Time: 10/08/04 10:05:54
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	599.	649.	1060.	2600.	53.5	201.	2880.
SDev	62.	27.	6.	10.	.1	1.	27.
%RSD	10.3	4.20	.578	.388	.103	.320	.926
#1	556.	668.	1050.	2600.	53.5	200.	2870.
#2	643.	630.	1060.	2610.	53.5	201.	2900.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	574.	897.	2090.	1980.	310.	1360.	871.
SDev	5.	7.	38.	77.	7.	8.	35.
%RSD	.808	.792	1.83	3.88	2.20	.553	4.06
#1	571.	892.	2110.	1920.	305.	1350.	896.
#2	577.	902.	2060.	2030.	315.	1360.	846.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	789.	178.	852.	1690.	1390.	550600.	56780.
SDev	84.	1.	38.	10.	13.	5586.	502.
%RSD	10.7	.799	4.46	.582	.924	1.014	.8832
#1	730.	177.	825.	1680.	1380.	546700.	56430.
#2	849.	179.	879.	1700.	1400.	554600.	57140.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	533900.	156700.	3720.	2010.	632.	817.	11100.
SDev	5157.	1517.	33.	38.	2.	44.	110.
%RSD	.9659	.9679	.892	1.90	.384	5.43	.993
#1	530200.	155700.	3690.	1990.	631.	785.	11000.
#2	537500.	157800.	3740.	2040.	634.	848.	11200.

Analysis Report 10/08/04 10:13:36 AM page 1

Method: 6010B Sample Name: qc267313 Operator: pps
Run Time: 10/08/04 10:09:59
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	607.	641.	1120.	2750.	55.5	209.	3060.
SDev	50.	17.	1.	5.	.2	1.	9.
%RSD	8.19	2.59	.047	.171	.407	.588	.291
#1	571.	653.	1120.	2760.	55.7	209.	3050.
#2	642.	629.	1120.	2750.	55.3	208.	3060.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	603.	1010.	2130.	2030.	319.	1480.	882.
SDev	1.	3.	5.	60.	2.	1.	17.
%RSD	.230	.311	.247	2.97	.661	.060	1.97
#1	602.	1010.	2140.	1990.	317.	1480.	895.
#2	604.	1020.	2130.	2070.	320.	1480.	870.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	797.	182.	879.	1860.	1510.	619500.	61450.
SDev	59.	.	8.	.	6.	2193.	170.
%RSD	7.35	.085	.891	.008	.370	.3541	.2764
#1	756.	182.	874.	1860.	1510.	617900.	61330.
#2	839.	182.	885.	1860.	1510.	621000.	61570.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	612300.	174300.	4250.	2070.	629.	826.	12200.
SDev	2206.	573.	14.	38.	5.	33.	51.
%RSD	.3603	.3286	.321	1.86	.871	4.03	.414
#1	610700.	173800.	4240.	2040.	626.	802.	12200.
#2	613800.	174700.	4260.	2090.	633.	849.	12300.

Analysis Report 10/08/04 10:19:10 AM page 1

Method: 6010B Sample Name: 174988-009 Operator: pps
Run Time: 10/08/04 10:15:32
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.7	26.3	168.	726.	8.78	25.6	1040.
SDev	18.8	7.8	3.	1.	.11	.4	7.
%RSD	106.	29.8	1.67	.179	1.25	1.58	.679
#1	4.45	31.9	170.	725.	8.86	25.9	1030.
#2	31.0	20.8	166.	727.	8.71	25.3	1040.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	164.	706.	311.	268.	10.3	868.	24.1
SDev	.	4.	10.	17.	1.5	5.	16.0
%RSD	.054	.621	3.36	6.25	14.9	.524	66.6
#1	164.	703.	318.	257.	11.4	865.	35.4
#2	164.	710.	303.	280.	9.22	871.	12.7

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-39.6	-.085	-6.87	1100.	906.	417000.	32140.
SDev	12.7	.998	9.42	4.	8.	3637.	200.
%RSD	32.0	1170.	137.	.403	.853	.8720	.6226
#1	-48.6	.621	-13.5	1090.	901.	414500.	32000.
#2	-30.6	-.791	-.211	1100.	911.	419600.	32280.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	438300.	118200.	3320.	283.	23.5	-18.4	9650.
SDev	3502.	940.	21.	8.	1.0	3.1	76.
%RSD	.7990	.7954	.645	2.72	4.39	16.9	.784
#1	435800.	117500.	3300.	277.	22.7	-20.6	9600.
#2	440800.	118800.	3330.	288.	24.2	-16.2	9710.

Analysis Report 10/08/04 10:23:15 AM page 1

Method: 6010B Sample Name: qc267314 Operator: pps
Run Time: 10/08/04 10:19:37
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	667.	636.	1140.	2800.	52.8	203.	2870.
SDev	22.	8.	1.	4.	.1	.	5.
%RSD	3.24	1.28	.048	.133	.169	.194	.170
#1	652.	642.	1140.	2800.	52.7	203.	2860.
#2	682.	630.	1140.	2800.	52.8	202.	2870.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	601.	966.	2090.	2070.	314.	1410.	833.
SDev	1.	2.	26.	15.	4.	.	10.
%RSD	.174	.166	1.24	.703	1.34	.004	1.24
#1	600.	965.	2110.	2060.	311.	1410.	840.
#2	601.	967.	2070.	2080.	317.	1410.	825.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	813.	175.	861.	1670.	1450.	543200.	61470.
SDev	38.	.	22.	2.	2.	1107.	120.
%RSD	4.69	.249	2.56	.128	.139	.2038	.1950
#1	786.	175.	845.	1670.	1450.	542400.	61380.
#2	840.	175.	876.	1680.	1450.	544000.	61550.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	658500.	158000.	5590.	2070.	646.	820.	10600.
SDev	1124.	228.	10.	1.	2.	22.	23.
%RSD	.1707	.1442	.187	.052	.274	2.69	.220
#1	657700.	157900.	5580.	2070.	645.	804.	10600.
#2	659300.	158200.	5600.	2070.	648.	835.	10600.

Analysis Report 10/08/04 10:27:20 AM page 1

Method: 6010B Sample Name: qc267315 Operator: pps
Run Time: 10/08/04 10:23:43
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	647.	628.	1010.	2610.	53.6	198.	2970.
SDev	83.	15.	5.	22.	.2	1.	52.
%RSD	12.8	2.44	.462	.860	.350	.256	1.76
#1	589.	639.	1010.	2590.	53.5	198.	2930.
#2	706.	617.	1020.	2620.	53.8	199.	3000.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	617.	1060.	2080.	2050.	308.	1490.	837.
SDev	10.	15.	15.	123.	5.	18.	22.
%RSD	1.67	1.46	.715	6.03	1.52	1.21	2.67
#1	610.	1050.	2070.	1960.	305.	1480.	853.
#2	624.	1070.	2090.	2130.	312.	1500.	821.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	817.	174.	860.	1770.	1560.	583700.	56100.
SDev	83.	3.	21.	23.	28.	10837.	959.
%RSD	10.2	1.45	2.43	1.30	1.78	1.857	1.709
#1	758.	172.	846.	1760.	1540.	576100.	55420.
#2	876.	176.	875.	1790.	1580.	591400.	56780.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	557500.	166100.	4470.	2060.	635.	824.	11800.
SDev	10384.	3086.	78.	87.	17.	48.	225.
%RSD	1.863	1.858	1.73	4.24	2.73	5.85	1.91
#1	550100.	163900.	4420.	1990.	622.	789.	11600.
#2	564800.	168300.	4520.	2120.	647.	858.	12000.

Analysis Report 10/08/04 10:32:55 AM page 1

Method: 6010B Sample Name: 174988-017 Operator: pps
Run Time: 10/08/04 10:29:17
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	28.9	47.3	366.	2980.	9.02	151.	1450.
SDev	21.0	22.4	9.	7.	.28	1.	2.
%RSD	72.5	47.4	2.35	.251	3.10	.465	.169
#1	14.1	63.1	372.	2980.	9.22	151.	1450.
#2	43.7	31.4	360.	2970.	8.82	150.	1450.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	397.	8970.	7730.	7490.	16.8	1600.	31.2
SDev	.	41.	32.	216.	2.2	1.	21.2
%RSD	.026	.456	.408	2.88	13.1	.088	67.9
#1	397.	8940.	7750.	7340.	18.4	1610.	46.2
#2	397.	9000.	7700.	7640.	15.2	1600.	16.2

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-47.7	6.83	-12.3	1170.	25000.	447300.	48940.
SDev	21.6	1.06	.3	4.	60.	2599.	79.
%RSD	45.3	15.5	2.79	.373	.238	.5810	.1621
#1	-63.0	7.58	-12.5	1170.	25000.	445500.	48880.
#2	-32.4	6.08	-12.1	1170.	25000.	449100.	49000.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	606300.	152900.	16700.	7570.	41.1	-21.4	9630.
SDev	1753.	633.	34.	133.	7.9	7.3	32.
%RSD	.2892	.4139	.203	1.76	19.3	34.3	.333
#1	605100.	152400.	16700.	7480.	46.8	-26.6	9600.
#2	607500.	153300.	16800.	7660.	35.5	-16.2	9650.

Analysis Report 10/08/04 10:37:01 AM page 1

Method: 6010B' Sample Name: qc267316 Operator: pps
Run Time: 10/08/04 10:33:23
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	678.	719.	1330.	5780.	55.3	335.	3510.
SDev	44.	34.	28.	83.	.9	5.	35.
%RSD	6.45	4.73	2.09	1.44	1.58	1.39	1.01
#1	647.	743.	1350.	5840.	55.9	339.	3530.
#2	709.	695.	1310.	5720.	54.7	332.	3480.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	843.	7070.	9990.	9690.	318.	2280.	861.
SDev	9.	70.	172.	117.	2.	31.	45.
%RSD	1.09	.993	1.72	1.21	.764	1.35	5.17
#1	850.	7120.	10100.	9610.	320.	2300.	893.
#2	837.	7020.	9870.	9770.	316.	2260.	830.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	756.	190.	850.	1990.	28900.	688300.	82180.
SDev	49.	2.	8.	27.	296.	7193.	843.
%RSD	6.55	1.08	.928	1.35	1.02	1.045	1.026
#1	721.	192.	844.	2010.	29100.	693400.	82770.
#2	791.	189.	855.	1970.	28600.	683200.	81580.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	943500.	234100.	14800.	9790.	705.	791.	13400.
SDev	9368.	2360.	148.	21.	8.	18.	136.
%RSD	.9929	1.008	1.00	.212	1.15	2.29	1.01
#1	950100.	235800.	14900.	9770.	711.	778.	13500.
#2	936800.	232500.	14700.	9800.	700.	804.	13300.

Analysis Report 10/08/04 10:49:25 AM page 1

Method: 6010B Sample Name: ~~qe267317~~ Operator: pps
Run Time: 10/08/04 10:46:00 OUW51879
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	787.	770.	388.	767.	75.5	78.2	155.
SDev	3.	8.	3.	9.	.7	.9	2.
%RSD	.342	1.02	.762	1.19	.946	1.19	1.09
#1	789.	775.	390.	773.	76.0	78.9	156.
#2	785.	764.	386.	760.	75.0	77.5	154.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	376.	153.	388.	392.	760.	387.	368.
SDev	4.	2.	7.	.	4.	4.	5.
%RSD	1.16	1.44	1.80	.090	.495	1.01	1.37
#1	379.	154.	393.	392.	758.	389.	372.
#2	373.	151.	383.	392.	763.	384.	364.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	383.	77.9	385.	380.	78.7	807.4	1506.
SDev	9.	.8	4.	4.	1.0	16.6	17.
%RSD	2.30	1.01	.921	1.17	1.28	2.061	1.122
#1	377.	78.4	388.	383.	79.4	819.2	1518.
#2	389.	77.3	383.	376.	77.9	795.6	1494.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	820.5	1566.	74.6	391.	775.	378.	782.
SDev	8.4	13.	.8	3.	6.	4.	9.
%RSD	1.024	.8415	1.09	.657	.792	1.11	1.10
#1	826.4	1576.	75.2	393.	780.	375.	788.
#2	814.5	1557.	74.0	389.	771.	381.	776.

Analysis Report 10/08/04 10:53:08 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 10/08/04 10:49:54
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.514	-4.01	-1.09	.309	.043	.080	.305
SDev	1.72	.05	1.39	.000	.016	.215	.374
%RSD	334.	1.28	128.	.099	36.3	269.	123.
#1	-.699	-4.04	-.104	.310	.054	.232	.569
#2	1.73	-3.97	-2.07	.309	.032	-.072	.041

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.015	.324	1.81	1.83	2.41	.165	-.336
SDev	.126	.486	1.78	2.12	.70	.042	2.312
%RSD	849.	150.	98.3	116.	29.0	25.2	687.
#1	.074	-.019	3.08	.327	2.90	.194	-1.97
#2	-.104	.668	.553	3.33	1.91	.136	1.30

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.387	-.327	3.99	.035	1.02	42.05	25.09
SDev	1.33	.749	2.10	.278	.14	3.96	.70
%RSD	344.	229.	52.6	793.	13.8	9.427	2.799
#1	1.33	.203	5.48	.232	1.11	44.86	25.58
#2	-.554	-.856	2.51	-.161	.916	39.25	24.59

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	51.83	29.53	.538	1.82	-2.50	.146	1.45
SDev	3.90	1.57	.069	.82	.61	.116	.10
%RSD	7.529	5.301	12.8	45.0	24.2	79.7	7.18
#1	54.59	30.64	.586	1.24	-2.93	.228	1.53
#2	49.07	28.43	.489	2.40	-2.07	.064	1.38

Analysis Report 10/08/04 10:57:52 AM page 1

Method: 6010B Sample Name: qc267317 Operator: pps
Run Time: 10/08/04 10:54:14
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	763.	790.	1350.	5540.	56.6	339.	3400.
SDev	32.	28.	31.	114.	1.1	8.	64.
%RSD	4.16	3.56	2.32	2.05	1.95	2.26	1.87
#1	741.	810.	1370.	5620.	57.4	345.	3450.
#2	786.	770.	1330.	5460.	55.9	334.	3360.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	815.	6140.	9440.	9260.	345.	2170.	918.
SDev	16.	119.	248.	1.	3.	83.	40.
%RSD	2.01	1.94	2.62	.007	.758	3.84	4.39
#1	826.	6220.	9610.	9260.	347.	2230.	947.
#2	803.	6050.	9260.	9260.	343.	2110.	890.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	853.	202.	913.	1850.	25500.	604200.	81600.
SDev	45.	4.	3.	37.	480.	10624.	1445.
%RSD	5.32	2.10	.317	2.02	1.88	1.758	1.771
#1	821.	205.	911.	1870.	25800.	611700.	82620.
#2	885.	199.	915.	1820.	25200.	596700.	80580.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	746900.	206400.	14000.	9320.	781.	875.	12600.
SDev	11781.	3524.	236.	82.	8.	17.	221.
%RSD	1.577	1.707	1.69	.881	1.04	1.92	1.75
#1	755200.	208900.	14200.	9380.	787.	863.	12800.
#2	738500.	203900.	13800.	9260.	775.	887.	12500.

Analysis Report 10/08/04 11:03:27 AM page 1

Method: 6010B' Sample Name: 175141-001 Operator: pps
Run Time: 10/08/04 10:59:49
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	35.7	22.0	85.5	328.	3.60	22.3	1450.
SDev	9.8	7.5	.6	2.	.25	.1	14.
%RSD	27.4	33.9	.702	.566	6.86	.290	.964
#1	28.8	27.3	85.1	327.	3.78	22.3	1440.
#2	42.7	16.8	86.0	330.	3.43	22.3	1460.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	151.	105.	83.9	64.9	3.81	631.	-.723
SDev	1.	.	6.5	6.7	.04	5.	11.51
%RSD	.762	.135	7.77	10.3	1.10	.819	1590.
#1	150.	105.	88.5	60.2	3.84	627.	7.42
#2	152.	105.	79.3	69.7	3.78	635.	-8.86

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-32.9	-3.42	-9.89	1260.	580.	158100.	105700.
SDev	5.4	.71	.53	9.	6.	1799.	976.
%RSD	16.4	20.8	5.39	.715	1.01	1.138	.9233
#1	-36.7	-2.92	-9.51	1260.	576.	156800.	105000.
#2	-29.1	-3.93	-10.3	1270.	584.	159400.	106300.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	410000.	67460.	4170.	71.3	26.6	-22.2	22600.
SDev	4416.	676.	42.	2.3	1.7	.2	264.
%RSD	1.077	1.003	1.00	3.23	6.44	1.06	1.17
#1	406900.	66980.	4140.	69.6	27.8	-22.0	22400.
#2	413100.	67940.	4200.	72.9	25.4	-22.4	22800.

Analysis Report 10/08/04 11:07:32 AM page 1

Method: 6010B Sample Name: 175141-002 Operator: pps
Run Time: 10/08/04 11:03:54
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	26.9	7.34	62.7	368.	2.68	15.1	829.
SDev	1.2	3.73	6.7	33.	.03	1.8	70.
%RSD	4.42	50.8	10.7	8.85	1.06	12.0	8.40
#1	26.1	9.98	67.5	391.	2.66	16.4	879.
#2	27.7	4.71	58.0	345.	2.70	13.8	780.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	113.	102.	212.	204.	1.46	456.	.028
SDev	10.	10.	15.	9.	.65	39.	.101
%RSD	8.63	9.65	6.85	4.20	44.5	8.61	361.
#1	120.	109.	222.	210.	1.93	483.	.099
#2	106.	95.1	202.	198.	1.00	428.	-.043

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-20.1	-2.12	-6.78	842.	499.	109700.	69640.
SDev	4.3	.19	1.70	74.	43.	9416.	5735.
%RSD	21.4	9.08	25.1	8.74	8.61	8.583	8.236
#1	-23.1	-2.26	-5.57	894.	529.	116400.	73690.
#2	-17.0	-1.99	-7.98	790.	468.	103100.	65580.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	280300.	45750.	3290.	207.	13.9	-13.4	14100.
SDev	23397.	3803.	274.	11.	2.1	2.8	1199.
%RSD	8.347	8.312	8.34	5.10	15.1	21.2	8.51
#1	296900.	48440.	3480.	214.	15.3	-15.4	14900.
#2	263800.	43060.	3100.	199.	12.4	-11.4	13200.

Analysis Report 10/08/04 11:11:37 AM page 1

Method: 6010B' Sample Name: 175141-003 Operator: pps
Run Time: 10/08/04 11:08:00
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	34.7	12.7	90.3	477.	3.17	20.9	1100.
SDev	1.5	1.5	2.1	3.	.01	.0	5.
%RSD	4.43	11.8	2.33	.649	.223	.071	.460
#1	33.7	11.7	88.8	479.	3.17	20.9	1100.
#2	35.8	13.8	91.8	475.	3.18	20.9	1090.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	141.	104.	67.8	59.2	2.49	545.	.357
SDev	.	1.	2.7	1.0	.30	4.	.232
%RSD	.164	1.02	3.97	1.74	12.1	.761	64.9
#1	141.	105.	69.7	58.5	2.70	548.	.193
#2	140.	104.	65.9	60.0	2.27	542.	.521

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-27.8	-2.84	-9.08	1170.	458.	137300.	94730.
SDev	.4	.04	1.04	6.	3.	672.	447.
%RSD	1.32	1.39	11.5	.551	.559	.4897	.4718
#1	-28.0	-2.81	-8.34	1180.	460.	137700.	95040.
#2	-27.5	-2.86	-9.82	1170.	456.	136800.	94410.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	392500.	57650.	4250.	62.1	20.1	-18.4	19100.
SDev	1779.	273.	20.	.2	1.5	.3	85.
%RSD	.4533	.4744	.472	.335	7.55	1.75	.445
#1	393700.	57850.	4260.	62.3	19.0	-18.6	19100.
#2	391200.	57460.	4230.	62.0	21.1	-18.2	19000.

Analysis Report 10/08/04 11:15:43 AM page 1

Method: 6010B Sample Name: 175141-004 Operator: pps
Run Time: 10/08/04 11:12:05
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	31.4	10.8	71.0	382.	2.54	16.6	949.
SDev	.6	1.7	2.4	4.	.03	.0	10.
%RSD	1.85	15.7	3.38	1.11	1.11	.243	1.02
#1	31.8	12.0	72.7	385.	2.56	16.7	956.
#2	31.0	9.59	69.3	380.	2.52	16.6	942.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	119.	88.0	66.8	57.0	2.35	475.	-1.72
SDev	1.	1.2	2.2	.3	.44	5.	1.10
%RSD	1.02	1.40	3.34	.514	18.6	.974	64.3
#1	120.	88.9	68.4	57.2	2.66	478.	-.936
#2	119.	87.2	65.2	56.8	2.04	472.	-2.50

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-23.8	-2.39	-6.93	960.	396.	116500.	79600.
SDev	.8	.16	3.62	9.	4.	1291.	730.
%RSD	3.19	6.61	52.2	.943	.949	1.109	.9169
#1	-24.3	-2.50	-9.49	967.	398.	117400.	80120.
#2	-23.3	-2.27	-4.37	954.	393.	115500.	79090.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	319900.	49180.	3300.	60.3	17.7	-16.4	15800.
SDev	2954.	443.	31.	.9	1.3	.1	145.
%RSD	.9232	.9001	.939	1.56	7.49	.838	.920
#1	322000.	49490.	3320.	60.9	18.6	-16.5	15900.
#2	317800.	48870.	3280.	59.6	16.7	-16.3	15700.

Analysis Report 10/08/04 11:19:48 AM page 1

Method: 6010B Sample Name: 175141-005 Operator: pps
Run Time: 10/08/04 11:16:10
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.2	11.6	68.5	460.	2.52	16.6	909.
SDev	2.2	.7	2.9	7.	.09	.3	12.
%RSD	8.81	5.74	4.24	1.57	3.45	2.00	1.34
#1	23.6	11.1	70.6	465.	2.58	16.8	918.
#2	26.7	12.0	66.5	455.	2.46	16.4	901.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	109.	121.	604.	590.	3.42	439.	1.42
SDev	2.	2.	6.	2.	.10	5.	.28
%RSD	1.59	1.93	1.00	.296	2.81	1.25	19.6
#1	110.	123.	609.	589.	3.36	443.	1.62
#2	108.	119.	600.	591.	3.49	435.	1.23

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-26.2	-2.79	-5.22	819.	676.	110600.	79670.
SDev	.8	.32	.05	13.	9.	1420.	1117.
%RSD	2.88	11.4	.892	1.60	1.34	1.284	1.402
#1	-26.8	-3.02	-5.19	828.	682.	111600.	80460.
#2	-25.7	-2.57	-5.26	810.	669.	109600.	78880.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	306900.	47460.	3690.	595.	16.1	-17.0	14000.
SDev	4166.	616.	51.	1.	1.2	.4	187.
%RSD	1.357	1.297	1.37	.143	7.34	2.41	1.33
#1	309900.	47900.	3730.	595.	15.3	-17.3	14200.
#2	304000.	47030.	3660.	594.	16.9	-16.7	13900.

Analysis Report 10/08/04 11:23:53 AM page 1

Method: 6010B Sample Name: 175141-006 Operator: pps
Run Time: 10/08/04 11:20:15
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30.0	17.3	75.4	382.	2.84	18.6	1170.
SDev	1.3	.9	2.0	16.	.36	1.0	61.
%RSD	4.26	5.42	2.68	4.25	12.8	5.28	5.25
#1	29.1	18.0	74.0	370.	3.09	17.9	1120.
#2	30.9	16.6	76.8	393.	2.58	19.2	1210.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	126.	95.4	80.2	59.9	1.90	502.	1.72
SDev	7.	4.6	6.4	6.3	.79	24.	3.07
%RSD	5.71	4.84	7.92	10.5	41.3	4.85	178.
#1	121.	92.2	75.8	55.4	1.35	485.	3.89
#2	131.	98.7	84.7	64.3	2.46	520.	-.450

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-29.0	-3.57	-13.2	1100.	466.	128800.	82440.
SDev	9.1	.47	6.1	54.	24.	6345.	4198.
%RSD	31.3	13.2	46.6	4.89	5.11	4.925	5.092
#1	-22.6	-3.90	-8.84	1060.	449.	124400.	79470.
#2	-35.4	-3.23	-17.5	1140.	483.	133300.	85410.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	352500.	54830.	3520.	66.7	21.5	-18.8	19100.
SDev	18476.	2840.	178.	6.3	.2	7.1	992.
%RSD	5.241	5.179	5.05	9.47	.927	37.7	5.21
#1	339400.	52820.	3390.	62.2	21.7	-13.8	18400.
#2	365600.	56840.	3640.	71.1	21.4	-23.8	19800.

Analysis Report 10/08/04 11:27:58 AM page 1

Method: 6010B Sample Name: 175141-007 Operator: pps
Run Time: 10/08/04 11:24:20
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	34.4	18.3	82.0	456.	3.83	23.7	1480.
SDev	9.1	6.2	1.0	1.	.22	.3	9.
%RSD	26.6	33.9	1.19	.172	5.79	1.11	.600
#1	28.0	22.7	82.7	456.	3.98	23.9	1470.
#2	40.9	13.9	81.4	457.	3.67	23.5	1480.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	163.	127.	301.	282.	3.29	680.	4.06
SDev	1.	.	3.	13.	1.09	2.	12.3
%RSD	.566	.091	1.05	4.53	33.3	.334	302.
#1	162.	127.	304.	273.	4.06	678.	12.7
#2	164.	127.	299.	291.	2.51	681.	-4.61

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-35.9	-3.64	-10.8	1340.	790.	158200.	98800.
SDev	9.2	.59	5.3	5.	6.	990.	522.
%RSD	25.7	16.2	49.3	.356	.726	.6258	.5281
#1	-42.4	-3.22	-7.01	1340.	786.	157500.	98430.
#2	-29.4	-4.05	-14.5	1340.	794.	158900.	99170.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	441900.	70530.	4620.	289.	23.7	-22.6	22000.
SDev	2889.	432.	27.	7.	1.1	2.1	151.
%RSD	.6537	.6118	.583	2.59	4.59	9.16	.685
#1	439900.	70230.	4600.	283.	24.4	-24.0	21900.
#2	443900.	70840.	4640.	294.	22.9	-21.1	22100.

Analysis Report 10/08/04 11:32:03 AM page 1

Method: 6010B Sample Name: 175141-009 Operator: pps
Run Time: 10/08/04 11:28:25
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.6	11.0	71.9	276.	3.36	16.0	1180.
SDev	1.3	3.8	8.0	17.	.08	1.5	69.
%RSD	4.88	34.9	11.1	6.32	2.44	9.59	5.85
#1	24.8	13.7	77.6	288.	3.42	17.1	1230.
#2	26.5	8.29	66.3	264.	3.30	15.0	1130.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	123.	76.1	63.3	45.5	1.80	536.	-.671
SDev	7.	5.7	2.7	2.3	.71	34.	2.857
%RSD	6.01	7.47	4.21	4.96	39.3	6.28	426.
#1	128.	80.1	65.2	47.1	2.30	559.	-2.69
#2	117.	72.1	61.4	43.9	1.30	512.	1.35

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-23.6	-2.51	-7.89	915.	440.	123700.	79470.
SDev	1.1	.14	.70	57.	27.	7658.	4651.
%RSD	4.60	5.58	8.83	6.23	6.06	6.189	5.853
#1	-22.9	-2.61	-8.38	955.	459.	129100.	82760.
#2	-24.4	-2.42	-7.40	875.	422.	118300.	76180.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	306400.	56000.	3400.	51.5	15.9	-16.0	16900.
SDev	17675.	3251.	194.	2.4	2.1	.2	983.
%RSD	5.769	5.805	5.72	4.65	13.5	1.42	5.81
#1	318900.	58300.	3530.	53.2	17.4	-16.1	17600.
#2	293900.	53700.	3260.	49.8	14.4	-15.8	16200.

Analysis Report 10/08/04 11:36:08 AM page 1

Method: 6010B Sample Name: 175141-010 Operator: pps
Run Time: 10/08/04 11:32:30
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.9	6.29	55.7	389.	2.80	11.7	744.
SDev	2.7	2.25	3.4	13.	.03	.5	24.
%RSD	12.9	35.7	6.04	3.34	1.05	4.54	3.20
#1	19.0	7.88	58.1	398.	2.78	12.1	761.
#2	22.8	4.70	53.3	380.	2.82	11.4	727.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	101.	75.4	45.3	35.0	1.87	423.	-3.61
SDev	3.	3.0	.5	.6	.55	13.	1.91
%RSD	3.44	3.94	1.05	1.72	29.3	3.13	52.8
#1	103.	77.5	45.7	35.4	1.48	433.	-2.26
#2	98.2	73.3	45.0	34.5	2.26	414.	-4.96

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-11.3	-1.99	-2.46	641.	455.	115300.	79670.
SDev	2.0	.12	.53	22.	14.	3752.	2423.
%RSD	17.7	5.80	21.5	3.39	3.18	3.254	3.041
#1	-12.7	-2.07	-2.08	657.	465.	118000.	81380.
#2	-9.85	-1.91	-2.83	626.	445.	112700.	77960.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	226000.	48210.	3970.	38.4	11.2	-8.71	14100.
SDev	7055.	1466.	123.	.6	.6	.70	440.
%RSD	3.122	3.042	3.09	1.45	5.38	7.99	3.12
#1	231000.	49250.	4060.	38.8	11.6	-9.20	14400.
#2	221000.	47180.	3890.	38.0	10.7	-8.22	13800.

lethod: 6010B Sample Name: 04ws1864 Operator: pps
un Time: 10/08/04 11:39:20
omment: 95280,1
lode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493.	492.	244.	479.	48.6	49.1	97.9
SDev	2.	3.	.	.	.1	.0	.1
%RSD	.381	.593	.040	.018	.209	.022	.116
#1	491.	490.	244.	479.	48.5	49.1	97.8
#2	494.	494.	244.	479.	48.7	49.1	98.0

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	237.	96.7	245.	246.	482.	242.	240.
SDev	.	.1	1.	1.	5.	.	5.
%RSD	.146	.114	.488	.321	1.01	.109	2.14
#1	236.	96.6	244.	246.	478.	242.	244.
#2	237.	96.8	246.	247.	485.	242.	236.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	240.	49.4	237.	241.	52.1	508.6	1011.
SDev	1.	.3	2.	.	.1	10.3	1.
%RSD	.560	.612	.834	.014	.147	2.033	.1396
#1	239.	49.2	236.	241.	52.2	515.9	1012.
#2	241.	49.6	239.	241.	52.1	501.3	1010.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	639.6	986.7	48.5	246.	492.	240.	499.
SDev	3.6	2.1	.1	1.	3.	1.	.
%RSD	.5686	.2115	.145	.377	.522	.340	.055
#1	642.2	985.2	48.5	245.	490.	240.	499.
#2	637.0	988.2	48.4	247.	494.	239.	499.

Analysis Report 10/08/04 11:51:20 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 10/08/04 11:48:07
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.57	.391	-.689	.452	.100	.189	.785
SDev	2.83	1.98	2.081	.179	.438	.361	.700
%RSD	61.8	505.	302.	39.6	437.	191.	89.2
#1	6.57	1.79	-2.16	.578	-.209	.445	1.28
#2	2.57	-1.01	.782	.325	.410	-.066	.290

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.067	.029	.607	1.67	5.50	.903	.265
SDev	.086	.382	1.82	1.95	3.04	.634	2.66
%RSD	128.	1320.	300.	117.	55.3	70.2	1000.
#1	-.006	.299	1.90	3.05	7.65	1.35	-1.61
#2	-.128	-.241	-.682	.290	3.35	.455	2.14

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.41	.044	4.50	.320	1.51	73.00	24.95
SDev	4.50	.224	.56	.301	1.56	27.26	1.89
%RSD	83.1	505.	12.4	94.2	103.	37.35	7.564
#1	8.59	.203	4.90	.533	2.61	92.27	26.28
#2	2.23	-.114	4.11	.107	.411	53.72	23.62

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	54.97	30.29	.527	1.32	1.78	3.70	5.62
SDev	10.47	4.46	.118	1.91	2.26	2.11	3.27
%RSD	19.06	14.73	22.5	145.	127.	57.2	58.2
#1	62.37	33.45	.610	2.67	3.38	5.19	7.93
#2	47.56	27.14	.443	-.034	.187	2.20	3.31

Analysis Report 10/08/04 11:55:32 AM page 1

Method: 6010B Sample Name: 04ws1841 Operator: pps
Run Time: 10/08/04 11:52:18
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	539.	534.	527.	486.	472.	920.	465.
SDev	6.	11.	12.	10.	10.	19.	9.
%RSD	1.07	2.13	2.26	2.07	2.07	2.07	1.99
#1	543.	542.	536.	493.	479.	933.	472.
#2	534.	526.	519.	479.	465.	906.	459.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	458.	493.	974.	935.	490.	882.	511.
SDev	10.	11.	15.	14.	5.	18.	1.
%RSD	2.13	2.16	1.52	1.49	.984	2.09	.164
#1	465.	501.	984.	945.	494.	895.	512.
#2	451.	486.	963.	925.	487.	869.	511.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	487.	908.	500.	472.	963.	499200.	445700.
SDev	3.	19.	17.	10.	20.	10080.	9078.
%RSD	.595	2.06	3.44	2.05	2.09	2.019	2.037
#1	485.	921.	512.	479.	977.	506300.	452100.
#2	489.	895.	488.	465.	949.	492000.	439200.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	167100.	513400.	454.	948.	536.	495.	21400.
SDev	3471.	10533.	9.	14.	10.	2.	411.
%RSD	2.077	2.052	2.06	1.50	1.77	.333	1.92
#1	169600.	520800.	461.	958.	542.	494.	21700.
#2	164700.	505900.	447.	938.	529.	496.	21100.

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14406749 Instrument: MET01 TJA ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	icp17889	CS				08-OCT-2004 11:09	1.0	1.0				1	1:SI=165100
002	icp17889	ICV				08-OCT-2004 11:11	1.0	1.0				2	1:SI=195600
003	icp17889	ICB				08-OCT-2004 11:16	1.0	1.0	1				1:SI=368500
004	icp17889	CRI				08-OCT-2004 11:22	1.0	1.0	1			3	1:SI=158800
005	icp17889	ICSA				08-OCT-2004 11:30	1.0	1.0	3			4	5:CA=2117000
006	icp17889	ICSAB				08-OCT-2004 11:33	1.0	1.0				5	5:CA=2163000
007	icp17890	BLANK	QC267306	95280	Soil	08-OCT-2004 11:46	1.0	50.0	7				1:SI=154300
008	icp17890	BS	QC267307	95280	Soil	08-OCT-2004 11:49	1.0	50.0	3				1:SI=172900
009	icp17890	BSD	QC267308	95280	Soil	08-OCT-2004 11:51	1.0	50.0	3				1:SI=175700
010	icp17890	MSS	174988-004	95280	Soil	08-OCT-2004 11:54	1.0	49.50	20				4:CA=1842000
011	icp17890	SER	QC267311	95280	Soil	08-OCT-2004 11:57	5.0	49.50					1:SI=283000
012	icp17890	MSS	174988-004	95280	Soil	08-OCT-2004 12:00	5.0	49.50	6				1:SI=288200
013	icp17890	SER	QC267311	95280	Soil	08-OCT-2004 12:02	25.0	49.50					1:SI=246900
014	icp17890	CCV				08-OCT-2004 12:07	1.0	1.0				6	1:SI=199700
015	icp17890	CCB				08-OCT-2004 12:11	1.0	1.0	1				1:SI=381400
016	icp17891	MS	QC267309	95280	Soil	08-OCT-2004 12:18	1.0	49.02	13	2			4:CA=1846000
017	icp17891	MSD	QC267310	95280	Soil	08-OCT-2004 12:21	1.0	53.76	13	1			4:CA=1889000
018	icp17891	MS	QC267309	95280	Soil	08-OCT-2004 12:24	5.0	49.02	2	4			1:SI=315000
019	icp17891	MSD	QC267310	95280	Soil	08-OCT-2004 12:26	5.0	53.76	1	2			1:SI=320200
020	icp17891	PDS	QC267350	95280	Soil	08-OCT-2004 12:30	1.0	49.50				7 8	4:CA=1871000
021	icp17891	MSS	174988-006	95280	Soil	08-OCT-2004 12:33	5.0	44.25	6				1:SI=331900
022	icp17891	MS	QC267312	95280	Soil	08-OCT-2004 12:36	5.0	40.65	1				1:SI=300100
023	icp17891	MSD	QC267313	95280	Soil	08-OCT-2004 12:38	5.0	36.76	1	2			1:SI=306600
024	icp17891	MSS	174988-009	95280	Soil	08-OCT-2004 12:41	5.0	45.45	6				1:SI=335400
025	icp17891	MS	QC267314	95280	Soil	08-OCT-2004 12:43	5.0	37.31	1	2			1:SI=297100
026	icp17892	CCV				08-OCT-2004 12:51	1.0	1.0				6	1:SI=206300
027	icp17892	CCB				08-OCT-2004 13:08	1.0	1.0	1				1:SI=379100
028	icp17892	MSD	QC267315	95280	Soil	08-OCT-2004 13:10	5.0	35.46	1	8			1:SI=312400
029	icp17892	MSS	174988-017	95280	Soil	08-OCT-2004 13:13	5.0	53.76	6				1:SI=303700
030	icp17892	MS	QC267316	95280	Soil	08-OCT-2004 13:15	5.0	38.17	3				2:SI=287200
031	icp17892	MSD	QC267317	95280	Soil	08-OCT-2004 13:18	5.0	45.87	1	2			1:SI=301900

Stds used: 1=04WS1622 2=04WS1780 3=04WS1773 4=04WS1702 5=04WS1846 6=04WS1781 7=04SS171 8=04SS172

Analyst: Date: 10/08/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14406749 Instrument: MET01 TJA ICP Begun: 08-OCT-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	icp17892	SAMPLE	175141-001	95280	Soil	08-OCT-2004 13:21	5.0	34.48			1:SI=304100
033	icp17892	SAMPLE	175141-002	95280	Soil	08-OCT-2004 13:23	5.0	46.30			1:SI=298200
034	icp17892	SAMPLE	175141-003	95280	Soil	08-OCT-2004 13:25	5.0	35.46			1:SI=311600
035	icp17892	SAMPLE	175141-004	95280	Soil	08-OCT-2004 13:28	5.0	43.10			1:SI=298400
036	icp17893	SAMPLE	175141-005	95280	Soil	08-OCT-2004 13:30	5.0	50.51			1:SI=290100
037	icp17893	SAMPLE	175141-006	95280	Soil	08-OCT-2004 13:32	5.0	48.54			1:SI=303200
038	icp17893	CCV				08-OCT-2004 13:35	1.0	1.0		6	1:SI=198900
039	icp17893	CCB				08-OCT-2004 13:37	1.0	1.0	1		1:SI=380200
040	icp17893	SAMPLE	175141-007	95280	Soil	08-OCT-2004 13:40	5.0	35.46			1:SI=296100
041	icp17893	SAMPLE	175141-009	95280	Soil	08-OCT-2004 13:43	5.0	42.02			1:SI=290200
042	icp17893	SAMPLE	175141-010	95280	Soil	08-OCT-2004 13:46	5.0	44.64			1:SI=313700
043	icp17893	ICSAB				08-OCT-2004 13:48	1.0	1.0		5	6:CA=1919000
044	icp17893	CCV				08-OCT-2004 13:55	1.0	1.0		6	1:SI=198200
045	icp17893	CCB				08-OCT-2004 13:57	1.0	1.0	1		1:SI=383900

38

Stds used: 1=04WS1622 2=04WS1780 3=04WS1773 4=04WS1702 5=04WS1846 6=04WS1781 7=04SS171 8=04SS172

Analyst: Date: 10/08/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 14406749032	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178926	Batchnum	: 95280	Injected	: 08-OCT-2004 13:21
IDF	: 5.0			Units	: mg/Kg

Prep: 1.45 g --> 50.0 ml = 34.48 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	10		
Arsenic	ND	86		y
Barium	11	1.7		
Beryllium	ND	0.34		
Cadmium	ND	0.86		
Chromium	48	1.7		
Cobalt	4.0	3.4		
Copper	3.8	1.7		
Iron	14000	17		u
Lead	ND	52		y
Manganese	140	1.7		y
Molybdenum	ND	3.4		
Nickel	22	3.4		
Selenium	ND	86		y
Silver	ND	0.86		
Thallium	ND	86		y
Vanadium	42	1.7		
Zinc	20	3.4	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-002	Cident	: BB4EX101[0.5]
Seqnum	: 14406749033	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178927	Batchnum	: 95280	Injected	: 08-OCT-2004 13:23
IDF	: 5.0			Units	: mg/Kg

Prep: 1.08 g --> 50.0 ml = 46.30 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	14		
Arsenic	ND	**120**		y
Barium	17	2.3		
Beryllium	ND	0.46		
Cadmium	ND	1.2		
Chromium	40	2.3		
Cobalt	ND	4.6		
Copper	5.1	2.3		
Iron	14000	23		u
Lead	ND	**69**		y
Manganese	160	**2.3**		y
Molybdenum	ND	4.6		
Nickel	23	4.6		
Selenium	ND	**120**		y
Silver	ND	1.2		
Thallium	ND	**120**		y
Vanadium	41	2.3		
Zinc	24	4.6	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-003	Cident	: BB4EX102[0.5]
Seqnum	: 14406749034	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178928	Batchnum	: 95280	Injected	: 08-OCT-2004 13:25
IDF	: 5.0			Units	: mg/Kg

Prep: 1.41 g --> 50.0 ml = 35.46 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	11		
Arsenic	ND	89		y
Barium	16	1.8		
Beryllium	ND	0.35		
Cadmium	ND	0.89		
Chromium	38	1.8		
Cobalt	4.0	3.5		
Copper	3.7	1.8		
Iron	14000	18		u
Lead	ND	53		y
Manganese	150	1.8		y
Molybdenum	ND	3.5		
Nickel	18	3.5		
Selenium	ND	89		y
Silver	ND	0.89		
Thallium	ND	89		y
Vanadium	41	1.8		
Zinc	16	3.5	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-004	Cident	: BB4EX103[0.5]
Seqnum	: 14406749035	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178929	Batchnum	: 95280	Injected	: 08-OCT-2004 13:28
IDF	: 5.0			Units	: mg/Kg

Prep: 1.16 g --> 50.0 ml = 43.10 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	13		
Arsenic	ND	**110**		y
Barium	15	2.2		
Beryllium	ND	0.43		
Cadmium	ND	1.1		
Chromium	38	2.2		
Cobalt	ND	4.3		
Copper	3.8	2.2		
Iron	13000	22		u
Lead	ND	**65**		y
Manganese	140	**2.2**		y
Molybdenum	ND	4.3		
Nickel	21	4.3		
Selenium	ND	**110**		y
Silver	ND	1.1		
Thallium	ND	**110**		y
Vanadium	39	2.2		
Zinc	16	4.3	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-005	Cident	: BB4EX104[0.5]
Seqnum	: 14406749036	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178930	Batchnum	: 95280	Injected	: 08-OCT-2004 13:30
IDF	: 5.0			Units	: mg/Kg

Prep: 0.99 g --> 50.0 ml = 50.51 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	15		
Arsenic	ND	**130**		y
Barium	22	2.5		
Beryllium	ND	0.51		
Cadmium	ND	1.3		
Chromium	43	2.5		
Cobalt	ND	5.1		
Copper	6.0	2.5		
Iron	15000	25		u
Lead	ND	**76**		y
Manganese	180	**2.5**		y
Molybdenum	ND	5.1		
Nickel	23	5.1		
Selenium	ND	**130**		y
Silver	ND	1.3		
Thallium	ND	**130**		y
Vanadium	39	2.5		
Zinc	33	5.1	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-006	Cident	: BB4EX105[0.5]
Seqnum	: 14406749037	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178931	Batchnum	: 95280	Injected	: 08-OCT-2004 13:32
IDF	: 5.0			Units	: mg/Kg

Prep: 1.03 g --> 50.0 ml = 48.54 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	15		
Arsenic	ND	**120**		y
Barium	16	2.4		
Beryllium	ND	0.49		
Cadmium	ND	1.2		
Chromium	51	2.4		
Cobalt	ND	4.9		
Copper	4.4	2.4		
Iron	16000	24		u
Lead	ND	**73**		y
Manganese	160	**2.4**		y
Molybdenum	ND	4.9		
Nickel	24	4.9		
Selenium	ND	**120**		y
Silver	ND	1.2		
Thallium	ND	**120**		y
Vanadium	48	2.4		
Zinc	21	4.9	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-007	Cident	: BB4EX106[0.5]
Seqnum	: 14406749040	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178934	Batchnum	: 95280	Injected	: 08-OCT-2004 13:40
IDF	: 5.0			Units	: mg/Kg

Prep: 1.41 g --> 50.0 ml = 35.46 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	11		
Arsenic	ND	**89**		y
Barium	16	1.8		
Beryllium	ND	0.35		
Cadmium	ND	0.89		
Chromium	52	1.8		
Cobalt	4.7	3.5		
Copper	4.7	1.8		
Iron	16000	18		u
Lead	ND	**53**		y
Manganese	170	**1.8**		y
Molybdenum	ND	3.5		
Nickel	27	3.5		
Selenium	ND	**89**		y
Silver	ND	0.89		
Thallium	ND	**89**		y
Vanadium	47	1.8		
Zinc	28	3.5	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 14406749041	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178935	Batchnum	: 95280	Injected	: 08-OCT-2004 13:43
IDF	: 5.0			Units	: mg/Kg

Prep: 1.19 g --> 50.0 ml = 42.02 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	13		
Arsenic	ND	**110**		y
Barium	12	2.1		
Beryllium	ND	0.42		
Cadmium	ND	1.1		
Chromium	50	2.1		
Cobalt	ND	4.2		
Copper	3.4	2.1		
Iron	13000	21		u
Lead	ND	**63**		y
Manganese	150	**2.1**		y
Molybdenum	ND	4.2		
Nickel	25	4.2		
Selenium	ND	**110**		y
Silver	ND	1.1		
Thallium	ND	**110**		y
Vanadium	40	2.1		
Zinc	19	4.2	1.2	

u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	175141-010	Cident	: BB4EX107[0.5]
Seqnum	: 14406749042	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp178936	Batchnum	: 95280	Injected	: 08-OCT-2004 13:46
IDF	: 5.0			Units	: mg/Kg

Prep: 1.12 g --> 50.0 ml = 44.64 ml/g PDF

Analyte	Result	RL	B=icp17890	Flags
Antimony	ND	13		
Arsenic	ND	**110**		y
Barium	16	2.2		
Beryllium	ND	0.45		
Cadmium	ND	1.1		
Chromium	32	2.2		
Cobalt	ND	4.5		
Copper	3.5	2.2		
Iron	9900	22		u
Lead	ND	**67**		y
Manganese	180	**2.2**		y
Molybdenum	ND	4.5		
Nickel	20	4.5		
Selenium	ND	**110**		y
Silver	ND	1.1		
Thallium	ND	**110**		y
Vanadium	28	2.2		
Zinc	20	4.5	1.2	

u=use y=RL raised

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	QC267306	Cident	:
Seqnum	: 14406749007	Matrix	: Soil	Acctnum	:
Filename	: icp178900	Batchnum	: 95280	Injected	: 08-OCT-2004 11:46
IDF	: 1.0			Units	: mg/Kg

Prep: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Result	RL	Flags
Aluminum	ND	5.0	
Antimony	ND	3.0	
Arsenic	ND	**25**	y
Barium	ND	0.50	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Calcium	8.0 J	25	
Chromium	ND	0.50	
Cobalt	ND	1.0	
Copper	ND	0.50	
Iron	ND	5.0	
Lead	ND	**15**	y
Magnesium	ND	25	
Manganese	ND	0.50	
Molybdenum	ND	1.0	
Nickel	ND	1.0	
Potassium	ND	25	u
Selenium	ND	**25**	y
Silver	ND	0.25	
Sodium	ND	25	u
Thallium	ND	**25**	y
Vanadium	ND	0.50	
Zinc	1.2	1.0	B r b*
Boron	ND	5.0	?cs b*
Phosphorus	ND	5.0	?<c ?>c ?cs ?v a+ cri+ b*
Silicon	7700 **>LR**	10	<ib >LR >ib ?<c ?>c ?cs ?v B a+ b*
Sulfide	ND	**50**	?<ab ?<c ?>c ?cs ?v a+ y b*
Tin	1.0 J	2.0	?cs B b*
Titanium	ND	0.50	?cs b*

+=high bias <=opening >=closing >LR=overrange ?=missing B=method blank contamination a=ICSA ab=ICSAB b=noncompliant c=CCV
ib=instrument blank r=RSD out u=use v=ICV out y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Instid	: MET01
Seqnum	: 14406749008	Seqnum	: 14406749009
Filename	: icp178901	Filename	: icp178902
IDF	: 1.0	IDF	: 1.0
Run type	: BS	Run type	: BSD
Samplenum	: QC267307	Samplenum	: QC267308
Matrix	: Soil	Matrix	: Soil
Batchnum	: 95280	Batchnum	: 95280
Inj	: 08-OCT-2004 11:49	Inj	: 08-OCT-2004 11:51
Units	: mg/Kg		

BS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
BSD: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Spike Conc	BS	%Rec	BSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	1028	103	1022	102	79-120	1	20	
Antimony	100.0	101.0	101	102.3	102	80-120	1	20	
Arsenic	50.00	53.55	107	51.55	103	80-120	4	20	y
Barium	100.0	100.9	101	100.4	100	80-120	0	20	
Beryllium	2.500	2.634	105	2.611	104	80-120	1	20	
Cadmium	10.00	10.83	108	10.93	109	80-120	1	20	
Calcium	1000	1051	105	1048	105	80-120	0	20	
Chromium	100.0	103.0	103	102.1	102	80-120	1	20	
Cobalt	25.00	25.85	103	26.05	104	80-120	1	20	
Copper	12.50	13.41	107	13.36	107	80-120	0	20	
Iron	1000	993.5	99	991.5	99	80-120	0	20	
Lead	100.0	105.1	105	105.2	105	80-120	0	20	y
Magnesium	1000	1047	105	1043	104	80-120	0	20	
Manganese	25.00	26.21	105	26.03	104	80-120	1	20	
Molybdenum	20.00	20.26	101	20.44	102	80-120	1	20	
Nickel	25.00	26.14	105	26.39	106	80-120	1	20	
Potassium	500.0	509.5	102	511.5	102	80-120	0	20	u
Selenium	50.00	50.20	100	54.00	108	80-120	7	20	y
Silver	10.00	10.50	105	10.54	105	80-120	0	20	
Sodium	1000	1065	106	1061	106	80-120	0	20	u
Thallium	50.00	52.10	104	52.05	104	79-120	0	20	y
Vanadium	25.00	26.13	105	26.16	105	80-120	0	20	
Zinc	25.00	26.89	108	27.04	108	80-120	1	20	
Boron	50.00	48.86	98	48.70	97	67-125	0	20	?cs b*
Phosphorus	*** not spiked in BSD ***								
Silicon	*** not spiked in BSD ***								
Sulfide	*** not spiked in BSD ***								
Tin	50.00	50.10	100	50.95	102	76-120	2	20	?cs b*
Titanium	50.00	48.97	98	48.70	97	80-120	1	20	?cs b*

?=missing b=noncompliant u=use y=RL raised
Page 1 of 1

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Instid	: MET01
Seqnum	: 14406749016	Seqnum	: 14406749017
Filename	: icp178910	Filename	: icp178911
IDF	: 1.0	IDF	: 1.0
Run type	: MS	Run type	: MSD
Samplenum	: QC267309	Samplenum	: QC267310
Matrix	: Soil	Matrix	: Soil
Batchnum	: 95280	Batchnum	: 95280
Inj	: 08-OCT-2004 12:18	Inj	: 08-OCT-2004 12:21
Units	: mg/Kg		

MSS : 174988-004

MS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF
MSD: 0.93 g --> 50.0 ml = 53.76 ml/g PDF

Analyte	MSS Seqnum	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	14406749012	15690	1075	21820 >LR	626	22770 >LR	659	58-148	--	22	: >LR int b*
Antimony	14406749012	6.723	107.5	29.32	23	37.75	29	16-120	17	31	int b*
Arsenic	14406749010	17.58 J	53.76	59.12	85	65.54	89	62-120	3	25	y
Barium	14406749010	77.18	107.5	148.7	73	167.7	84	51-137	7	20	
Beryllium	14406749012	0.4005 J	2.688	2.573	89	2.978	96	70-120	7	20	int b*
Cadmium	14406749012	ND	10.75	9.397	96	10.73	100	61-120	4	20	int b*
Calcium	14406749012	34900	1075	90490 >LR	5670	101600 >LR	6199	40-149	--	20	: >LR sat b*
Chromium	14406749012	42.82	107.5	127.9	87	142.4	93	60-120	4	20	int b*
Cobalt	14406749010	12.13	26.88	34.35	91	38.41	98	56-120	5	20	
Copper	14406749010	37.47	13.44	52.79	125	55.91	137	47-144	3	20	
Iron	14406749012	26310	1075	24860 >LR	-148	26590 >LR	26	57-134	--	20	: >LR u
Lead	14406749012	232.5	107.5	268.4	37*	324.2	85	47-126	16	28	int y b*
Magnesium	14406749012	5819	1075	7294	150	7747	179	44-152	5	20	: int b*
Manganese	14406749012	962.9	26.88	1085	497	904.8	-216	62-131	18	20	: int b*
Molybdenum	14406749010	1.520	21.51	16.13	74	18.49	79	57-120	5	20	
Nickel	14406749012	55.72	26.88	74.26	76	79.03	87	41-138	3	22	int b*
Potassium	14406749010	1579	537.6	2205	128	2404	153	33-157	6	23	u
Selenium	14406749010	9.287	53.76	48.61	80	54.09	83	35-122	3	27	y
Silver	14406749012	ND	10.75	8.593	88	9.581	89	71-120	2	20	int b*
Sodium	14406749010	2788	1075	4051	129*	4354	146*	72-126	5	20	u

:=recovery not meaningful >LR=overrange b=noncompliant int=interference sat=saturated u=use y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Instid	: MET01
Seqnum	: 14406749016	Seqnum	: 14406749017
Filename	: icp178910	Filename	: icp178911
IDF	: 1.0	IDF	: 1.0
Run type	: MS	Run type	: MSD
Samplenum	: QC267309	Samplenum	: QC267310
Matrix	: Soil	Matrix	: Soil
Batchnum	: 95280	Batchnum	: 95280
Inj	: 08-OCT-2004 12:18	Inj	: 08-OCT-2004 12:21
Units	: mg/Kg		

MSS : 174988-004

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec	MSD %Rec	Lim%Rec	RPD	Lim	Flags
Thallium	14406749010	ND	53.76	37.39 76	33.75 63	53-120	19	23	y
Vanadium	14406749012	46.56	26.88	71.37 101	77.42 115	48-136	5	20	int b*
Zinc	14406749012	165.0	26.88	178.1 S3	184.8 73	38-144	2	20	: int b*
Boron	*** usable MSS data not found ***								
Phosphorus	*** not spiked in MSD ***								
Silicon	*** not spiked in MSD ***								
Sulfide	*** not spiked in MSD ***								
Tin	*** usable MSS data not found ***								
Titanium	*** usable MSS data not found ***								

:=recovery not meaningful >LR=overrange b=noncompliant int=interference sat=saturated u=use y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Instid	: MET01
Seqnum	: 14406749018	Seqnum	: 14406749019
Filename	: icp178912	Filename	: icp178913
IDF	: 5.0	IDF	: 5.0
Run type	: MS	Run type	: MSD
Samplenum	: QC267309	Samplenum	: QC267310
Matrix	: Soil	Matrix	: Soil
Batchnum	: 95280	Batchnum	: 95280
Inj	: 08-OCT-2004 12:24	Inj	: 08-OCT-2004 12:26
Units	: mg/Kg		

MSS : 174988-004

MS: 1.02 g --> 50.0 ml = 49.02 ml/g PDF
MSD: 0.93 g --> 50.0 ml = 53.76 ml/g PDF

Analyte	MSS Seqnum	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	14406749012	15690	1075	22310	676	20980	492	58-148	7	22	: u
Antimony	14406749012	6.723	107.5	32.30	26	41.85	33	16-120	17	31	r b*
Arsenic	14406749012	18.62	53.76	65.49	96	71.29	98	62-120	2	25	y
Barium	14406749012	80.72	107.5	165.0	86	166.5	80	51-137	4	20	
Beryllium	14406749012	0.4005 J	2.688	2.789	97	2.868	92	70-120	5	20	
Cadmium	14406749012	ND	10.75	10.67	109	11.56	108	61-120	1	20	
Calcium	14406749012	34900	1075	32570	-237	34840	-6	40-149	6	20	: u
Chromium	14406749012	42.82	107.5	147.9	107	148.5	98	60-120	6	20	
Cobalt	14406749012	12.74	26.88	39.83	111	40.65	104	56-120	4	20	
Copper	14406749012	38.86	13.44	57.97	156*	54.89	119	47-144	8	20	
Iron	14406749012	26310	1075	28850	259	27850	143	57-134	4	20	:
Lead	14406749012	232.5	107.5	309.6	79	337.1	97	47-126	6	28	y
Magnesium	14406749012	5819	1075	8074	230	7685	174	44-152	6	20	: u
Manganese	14406749012	962.9	26.88	1244	1148	935.8	-101	62-131	29*	20	:
Molybdenum	14406749012	ND	21.51	16.02	82	18.32	85	57-120	4	20	
Nickel	14406749012	55.72	26.88	85.32	121	84.03	105	41-138	4	22	
Potassium	14406749010	1579	537.6	2475	183*	2171	110	33-157	15	23	
Selenium	14406749012	ND	53.76	42.60	87	48.52	90	35-122	4	27	r y b*
Silver	14406749012	ND	10.75	9.066	92	10.06	94	71-120	1	20	
Sodium	14406749010	2788	1075	4402	165*	4255	136*	72-126	6	20	

:=recovery not meaningful b=noncompliant r=RSD out u=use y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Instid	: MET01
Seqnum	: 14406749018	Seqnum	: 14406749019
Filename	: icp178912	Filename	: icp178913
IDF	: 5.0	IDF	: 5.0
Run type	: MS	Run type	: MSD
Samplenum	: QC267309	Samplenum	: QC267310
Matrix	: Soil	Matrix	: Soil
Batchnum	: 95280	Batchnum	: 95280
Inj	: 08-OCT-2004 12:24	Inj	: 08-OCT-2004 12:26
Units	: mg/Kg		

MSS : 174988-004

Analyte	MSS Seqnum	MSS	Spike Conc	MS %Rec		MSD %Rec		Lim%Rec	RPD	Lim	Flags
Thallium	14406749012	ND	53.76	54.31	111	47.15	88	53-120	23	23	r y b*
Vanadium	14406749012	46.56	26.88	81.25	142*	79.87	124	48-136	5	20	
Zinc	14406749012	165.0	26.88	203.4	156	190.2	94	38-144	8	20	:
Boron	*** usable MSS data not found ***										
Phosphorus	*** not spiked in MSD ***										
Silicon	*** not spiked in MSD ***										
Sulfide	*** not spiked in MSD ***										
Tin	*** usable MSS data not found ***										
Titanium	*** usable MSS data not found ***										

:=recovery not meaningful b=noncompliant r=RSD out u=use y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01	Instid : MET01
Seqnum : 14406749021	Seqnum : 14406749022	Seqnum : 14406749023
Filename : icp178915	Filename : icp178916	Filename : icp178917
IDF : 5.0	IDF : 5.0	IDF : 5.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-006	Samplenum: QC267312	Samplenum: QC267313
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 12:33	Inj : 08-OCT-2004 12:36	Inj : 08-OCT-2004 12:38
Units : mg/Kg		

MSS: 1.13 g --> 50.0 ml = 44.25 ml/g PDF
MS: 1.23 g --> 50.0 ml = 40.65 ml/g PDF
MSD: 1.36 g --> 50.0 ml = 36.76 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	18910	735.3	22280	414	22610	503	58-148	2	22	: u
Antimony	ND	73.53	27.03	33	21.25	29	16-120	14	31	
Arsenic	ND	36.76	42.28	104	42.68	116	62-120	11	25	r y b*
Barium	36.24	73.53	114.4	96	108.9	99	51-137	2	20	
Beryllium	0.4732	1.838	2.608	105	2.224	95	70-120	8	20	
Cadmium	ND	7.353	8.022	99	7.673	104	61-120	6	20	
Calcium	1825	735.3	2717	110	2664	114	40-149	1	20	
Chromium	50.60	73.53	130.7	98	124.7	101	60-120	1	20	
Cobalt	6.737	18.38	25.10	90	24.36	96	56-120	4	20	
Copper	28.36	9.191	39.65	111	39.82	125	47-144	3	20	
Iron	19790	735.3	22340	314	23000	436	57-134	3	20	: u
Lead	ND	73.53	98.68	121	93.97	128*	47-126	5	28	y
Magnesium	5631	735.3	6701	132	6719	148	44-152	1	20	: u
Manganese	139.4	18.38	169.9	150	174.5	191	62-131	4	20	:
Molybdenum	ND	14.71	13.45	83	12.18	83	57-120	0	20	
Nickel	44.38	18.38	65.89	106	65.68	116	41-138	3	22	
Potassium	1788	367.6	2175	95	2244	124	33-157	5	23	: u
Selenium	ND	36.76	29.47	73	30.42	83	35-122	13	27	r y b*
Silver	ND	7.353	7.346	90	6.743	92	71-120	1	20	
Sodium	4785	735.3	5852	131	5833	142	72-126	1	20	: u
Thallium	ND	36.76	36.38	90	46.45	126*	53-120	34*	23	y
Vanadium	54.27	18.38	76.73	110	76.40	120	48-136	2	20	
Zinc	42.81	18.38	64.53	107	63.60	113	38-144	2	20	
Boron	*** usable MSS data not found ***									
Phosphorus	*** not spiked in MSD ***									
Silicon	*** not spiked in MSD ***									
Sulfide	*** not spiked in MSD ***									
Tin	*** usable MSS data not found ***									
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful b=noncompliant r=RSD out u=use y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01	Instid : MET01
Seqnum : 14406749024	Seqnum : 14406749025	Seqnum : 14406749028
Filename : icp178918	Filename : icp178919	Filename : icp178922
IDF : 5.0	IDF : 5.0	IDF : 5.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-009	Samplenum: QC267314	Samplenum: QC267315
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 12:41	Inj : 08-OCT-2004 12:43	Inj : 08-OCT-2004 13:10
Units : mg/Kg		

MSS: 1.10 g --> 50.0 ml = 45.45 ml/g PDF
MS: 1.34 g --> 50.0 ml = 37.31 ml/g PDF
MSD: 1.41 g --> 50.0 ml = 35.46 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	18800	709.2	19180	51	18580	-31	58-148	3	22	: u
Antimony	ND	70.92	27.00	36	21.08	30	16-120	20	31	r b*
Arsenic	15.49	35.46	54.66	105	33.30	**50***	62-120	45*	25	y
Barium	36.05	70.92	106.8	95	89.50	75	51-137	14	20	
Beryllium	0.5402	1.773	2.179	88	1.798	71	70-120	15	20	
Cadmium	ND	7.092	6.903	93	6.624	93	61-120	1	20	
Calcium	1710	709.2	2580	117	2067	50	40-149	21*	20	
Chromium	51.30	70.92	113.1	83	105.8	77	60-120	4	20	
Cobalt	6.959	17.73	22.41	83	21.29	81	56-120	1	20	
Copper	34.61	8.865	37.01	**26***	36.31	**19***	47-144	1	20	
Iron	20170	709.2	23470	442	19960	-29	57-134	16	20	: u
Lead	ND	70.92	99.70	**134***	80.21	113	47-126	17	28	y
Magnesium	5634	709.2	5924	39	5550	-12	44-152	6	20	: u
Manganese	167.9	17.73	219.4	276	158.8	-51	62-131	32*	20	:
Molybdenum	ND	14.18	12.32	83	9.342	66	57-120	22*	20	
Nickel	47.86	17.73	58.51	57	58.71	61	41-138	2	22	
Potassium	1813	354.6	1968	42	1906	26	33-157	2	23	: u
Selenium	ND	35.46	35.47	95	46.77	**132***	35-122	32*	27	y
Silver	ND	7.092	6.675	89	5.512	78	71-120	14	20	
Sodium	4216	709.2	4593	51	4090	-18	72-126	11	20	: u
Thallium	ND	35.46	30.67	82	40.20	113	53-120	32*	23	r y b*
Vanadium	55.66	17.73	66.60	59	61.33	**32***	48-136	7	20	
Zinc	46.98	17.73	59.55	67	55.20	46	38-144	6	20	
Boron	*** usable MSS data not found ***									
Phosphorus	*** not spiked in MSD ***									
Silicon	*** not spiked in MSD ***									
Sulfide	*** not spiked in MSD ***									
Tin	*** usable MSS data not found ***									
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful b=noncompliant r=RSD out u=use y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01	Instid : MET01
Seqnum : 14406749029	Seqnum : 14406749030	Seqnum : 14406749031
Filename : icp178923	Filename : icp178924	Filename : icp178925
IDF : 5.0	IDF : 5.0	IDF : 5.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-017	Samplenum: QC267316	Samplenum: QC267317
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95280	Batchnum : 95280	Batchnum : 95280
Inj : 08-OCT-2004 13:13	Inj : 08-OCT-2004 13:15	Inj : 08-OCT-2004 13:18

Units : mg/Kg

MSS: 0.93 g --> 50.0 ml = 53.76 ml/g PDF
MS: 1.31 g --> 50.0 ml = 38.17 ml/g PDF
MSD: 1.09 g --> 50.0 ml = 45.87 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	21930	917.4	24770	373	25460	385	58-148	2	22	: u
Antimony	ND	91.74	24.14	32	31.22	34	16-120	7	31	r b*
Arsenic	19.48	45.87	50.74	82	45.78	57*	62-120	23	25	r y b*
Barium	155.6	91.74	215.6	79	240.6	93	51-137	5	20	
Beryllium	0.4352 J	2.294	2.195	92	2.486	89	70-120	3	20	
Cadmium	6.887	9.174	11.90	66	14.55	83	61-120	10	20	
Calcium	2782	917.4	3443	87	4007	133	40-149	11	20	
Chromium	78.71	91.74	141.1	82	159.2	88	60-120	3	20	
Cobalt	21.02	22.94	32.86	62	37.20	71	56-120	3	20	
Copper	466.9	11.47	267.9	-2085	272.9	-1692	47-144	1	20	:
Iron	33090	917.4	36930 >LR	503	34400	143	57-134	--	20	: >LR u
Lead	423.9	91.74	403.4	-27	443.6	21	47-126	6	28	: y
Magnesium	7906	917.4	8788	116	9101	130	44-152	2	20	: u
Manganese	853.2	22.94	560.7	-1533	624.3	-998	62-131	10	20	:
Molybdenum	ND	18.35	13.03	85	15.13	82	57-120	3	20	
Nickel	93.39	22.94	94.29	5	103.7	45	41-138	6	22	:
Potassium	2059	458.7	2349	76	2505	97	33-157	3	23	: u
Selenium	ND	45.87	32.56	85	55.80	122	35-122	35*	27	r y b*
Silver	ND	9.174	7.271	95	9.518	104	71-120	9	20	
Sodium	3879	917.4	4603	95	4851	106	72-126	2	20	: u
Thallium	ND	45.87	31.66	83	43.23	94	53-120	13	23	r y b*
Vanadium	61.75	22.94	77.90	85	84.93	101	48-136	4	20	
Zinc	1671	22.94	1470	-1050	1437	-1018	38-144	3	20	: u
Boron	*** usable MSS data not found ***									
Phosphorus	*** not spiked in MSD ***									
Silicon	*** not spiked in MSD ***									
Sulfide	*** not spiked in MSD ***									
Tin	*** usable MSS data not found ***									
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful >LR=overrange b=noncompliant r=RSD out u=use y=RL raised

Standardization Rpt. 10/08/04 11:05:58 AM

Method: 6010B Standard: blank
Run Time: 10/08/04 11:04:03

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	-.0004	.0038	.0000	.0005	.0003	.0002	.0003
SDev	.0002	.0008	.0000	.0000	.0004	.0001	.0004
%RSD	47.36	19.96	.0000	.2520	141.4	46.92	141.4
#1	-.0003	.0044	.0000	.0005	.0000	.0003	.0000
#2	-.0005	.0033	.0000	.0005	.0005	.0001	.0005

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0015	.0005	-.0008	-.0025	-.0003	.0000	-.0008
SDev	.0006	.0000	.0012	.0043	.0004	.0000	.0019
%RSD	38.80	.2520	141.4	173.0	141.4	.0000	235.3
#1	.0011	.0005	-.0016	-.0055	-.0005	.0000	.0005
#2	.0019	.0005	.0000	.0005	.0000	.0000	-.0022

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0003	.0005	.0007	.1867	.0014	.0003	.0003
SDev	.0004	.0000	.0002	.0040	.0012	.0004	.0004
%RSD	141.4	.2520	28.04	2.121	84.69	141.4	141.4
#1	-.0005	.0005	.0008	.1839	.0022	.0005	.0000
#2	.0000	.0005	.0005	.1895	.0005	.0000	.0005

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782
Avge	.0193	.0252	-.0016	.0096	.0000	.0005
SDev	.0025	.0046	.0000	.0012	.0000	.0012
%RSD	12.79	18.20	.2520	12.37	.0000	211.8
#1	.0211	.0285	-.0016	.0088	.0000	-.0003
#2	.0176	.0220	-.0016	.0104	.0000	.0014

Method: 6010B Standard: cs hi
Run Time: 10/08/04 11:06:32

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.5060	.9985	8.783	.3002	3.710	1.113	.8173
SDev	.0008	.0048	.007	.0000	.001	.002	.0027
%RSD	.1517	.4806	.0830	.0000	.0155	.1379	.3288
#1	.5065	.9951	8.788	.3002	3.710	1.112	.8154
#2	.5054	1.002	8.778	.3002	3.709	1.114	.8192

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.9180	.3290	2.254	2.023	.4881	.1642	.5179
SDev	.0011	.0008	.010	.012	.0031	.0004	.0046
%RSD	.1254	.2334	.4599	.5693	.6292	.2338	.8894
#1	.9188	.3284	2.246	2.031	.4859	.1640	.5147
#2	.9172	.3295	2.261	2.015	.4902	.1645	.5212

Elem	V 2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.7409	2.000	2.554	51.54	3.844	6.988	1.506
SDev	.0010	.003	.002	.09	.032	.003	.003
%RSD	.1295	.1343	.0752	.1821	.8288	.0412	.1785
#1	.7402	1.998	2.552	51.47	3.822	6.990	1.504
#2	.7416	2.002	2.555	51.61	3.867	6.986	1.508

Elem	K 7664	Na5889
Avge	.5737	5.221
SDev	.0033	.003
%RSD	.5688	.0662
#1	.5714	5.219
#2	.5760	5.224

Standardization Report 10/08/04 11:08:26 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	19827.8	8.15886	10/08/04 11:06:32
As1890	189.042	Multiple	Standards	10053.6	-38.5784	10/08/04 11:06:32
Ba4934	493.409	Multiple	Standards	2277.11	.000000	10/08/04 11:06:32
Be3130	313.042	Multiple	Standards	1726.50	-.946681	10/08/04 11:06:32
Cd2288	228.802	Multiple	Standards	2696.78	-.740671	10/08/04 11:06:32
Cr2677	267.716	Multiple	Standards	1794.06	-.368677	10/08/04 11:06:32
Co2286	228.616	Multiple	Standards	6158.50	-1.69143	10/08/04 11:06:32
Cu3247	324.754	Multiple	Standards	2731.66	-4.12103	10/08/04 11:06:32
Pb2203	220.353	Multiple	Standards	30512.0	-16.7304	10/08/04 11:06:32
Mo2020	202.030	Multiple	Standards	4434.71	3.64098	10/08/04 11:06:32
Ni2316	231.604	Multiple	Standards	2468.46	6.07754	10/08/04 11:06:32
Se1960	196.026	Multiple	Standards	20453.9	5.59768	10/08/04 11:06:32
Ag3280	328.068	Multiple	Standards	5953.05	-.000000	10/08/04 11:06:32
Tl1908	190.864	Multiple	Standards	19285.2	15.9089	10/08/04 11:06:32
V_2924	292.402	Multiple	Standards	6620.60	1.81188	10/08/04 11:06:32
Zn2138	213.856	Multiple	Standards	2492.75	-1.36683	10/08/04 11:06:32
Al3961	396.153	Multiple	Standards	7880.72	-5.39954	10/08/04 11:06:32
Ca3179	317.933	Multiple	Standards	973.662	-181.791	10/08/04 11:06:32
Fe2599	259.940	Multiple	Standards	2602.07	-3.56312	10/08/04 11:06:32
Mg2790	279.079	Multiple	Standards	7122.65	-1.94927	10/08/04 11:06:32
Mn2576	257.610	Multiple	Standards	3322.13	-.912422	10/08/04 11:06:32
K_7664	766.491	Multiple	Standards	90192.2	-1742.98	10/08/04 11:06:32
Na5889	588.995	Multiple	Standards	9622.27	-242.644	10/08/04 11:06:32
Sn1899	189.989	STD4	blank	3797.42	6.24663	10/08/04 11:06:32
B_2496	249.678	STD4	blank	6188.83	-59.3948	10/08/04 11:06:32
Ti3349	334.941	STD4	blank	1155.01	.000000	10/08/04 11:06:32
P_1782	178.287	STD4	blank	6031680.	-3316.15	10/08/04 11:06:32
S_1820	182.040	STD4	STD1-Blank	48.6198	-3.56869	10/08/04 11:06:32
Si2881	288.158	STD4	STD1-Blank	368176.	-103052.	10/08/04 11:06:32

Analysis Report 10/08/04 11:11:18 AM page 1

Method: 6010B Sample Name: 04ws1622 Operator: pps
Run Time: 10/08/04 11:09:03
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	10090.	10100.	20480.	511.1	10170.	2039.	5104.
SDev	35.	108.	15.	.5	29.	4.	9.
%RSD	.3434	1.065	.0739	.0916	.2884	.1927	.1847
#1	10120.	10180.	20490.	511.4	10150.	2042.	5111.
#2	10070.	10030.	20470.	510.7	10190.	2036.	5097.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2548.	10210.	10280.	5092.	10180.	1021.	10150.
SDev	.	12.	23.	23.	28.	1.	57.
%RSD	.0177	.1168	.2244	.4615	.2709	.1039	.5603
#1	2548.	10220.	10270.	5075.	10160.	1020.	10190.
#2	2547.	10200.	10300.	5108.	10200.	1022.	10110.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	5095.	5091.	20340.	51030.	10180.	50660.	5093.
SDev	12.	4.	7.	36.	27.	143.	6.
%RSD	.2333	.0743	.0346	.0712	.2611	.2818	.1194
#1	5104.	5089.	20340.	51050.	10160.	50760.	5098.
#2	5087.	5094.	20330.	51000.	10200.	50560.	5089.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	51030.	50760.	-18.32	-9.329	.0034	3205.	-.1212
SDev	44.	162.	2.81	4.891	.0009	9222.	.0438
%RSD	.0853	.3195	15.35	52.43	28.16	287.8	36.12
#1	51060.	50870.	-16.33	-5.870	.0040	9725.	-.1522
#2	50990.	50640.	-20.31	-12.79	.0027	-3316.	-.0902

Elem	Si2881
Units	PPB
Avge	165100.
SDev	499.
%RSD	.3023
#1	165400.
#2	164700.

Method: 6010B Sample Name: 04ws1780 Operator: pps
Run Time: 10/08/04 11:11:46
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1978.	1994.	1062.	1968.	2029.	2003.	2024.
SDev	6.	48.	6.	5.	12.	1.	4.
%RSD	.2978	2.394	.5950	.2334	.5900	.0499	.1993
#1	1974.	1960.	1067.	1965.	2021.	2004.	2027.
#2	1982.	2027.	1058.	1972.	2038.	2002.	2021.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2002.	1940.	2081.	2039.	1922.	1041.	2160.
SDev	2.	30.	16.	12.	7.	2.	33.
%RSD	.0960	1.552	.7907	.5916	.3479	.2236	1.539
#1	2000.	1919.	2093.	2031.	1926.	1040.	2184.
#2	2003.	1962.	2070.	2048.	1917.	1043.	2137.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1972.	2001.	1059.	2068.	1994.	2038.	2019.
SDev	1.	6.	2.	10.	4.	30.	5.
%RSD	.0512	.2816	.1737	.5001	.1765	1.487	.2580
#1	1973.	1997.	1061.	2076.	1997.	2059.	2016.
#2	1971.	2005.	1058.	2061.	1992.	2016.	2023.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10100.	9751.	1826.	967.0	1880.	-1709.	-1.343
SDev	41.	75.	23.	1.4	5.	2273.	.015
%RSD	.4064	.7724	1.267	.1449	.2791	133.0	1.098
#1	10130.	9698.	1843.	968.0	1877.	-101.8	-1.353
#2	10070.	9804.	1810.	966.0	1884.	-3316.	-1.333

Elem	Si2881
Units	PPB
Avge	195600.
SDev	1421.
%RSD	.7265
#1	194600.
#2	196600.

Analysis Report 10/08/04 11:18:08 AM page 1

Method: 6010B Sample Name: icb Operator: pps
Run Time: 10/08/04 11:16:14
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	8.035	18.84	3.097	-.0164	.3581	.7246	-.0309
SDev	15.36	11.77	.885	.0070	.5142	2.241	2.3595
%RSD	191.2	62.49	28.58	43.01	143.6	309.3	7624.
#1	-2.827	27.17	3.723	-.0114	-.0056	-.8600	-1.699
#2	18.90	10.52	2.471	-.0213	.7217	2.309	1.637

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-.0398	-66.51	18.72	5.723	61.21	.0132	8.050
SDev	2.6372	23.23	2.60	9.972	.17	.0057	3.685
%RSD	6626.	34.92	13.91	174.2	.2718	43.41	45.78
#1	1.825	-50.09	20.56	-1.328	61.33	.0092	10.66
#2	-1.905	-82.93	16.88	12.77	61.09	.0173	5.444

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2.888	2.366	11.72	11.48	-.7385	19.76	-.4604
SDev	1.244	.507	6.09	10.33	3.9926	24.77	.6394
%RSD	43.06	21.45	51.93	90.01	540.6	125.4	138.9
#1	2.009	2.725	16.03	18.78	-3.562	37.27	-.0083
#2	3.768	2.007	7.419	4.172	2.085	2.240	-.9126

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	158.2	35.96	3.666	7.069	.7859	-6596.	-1.612
SDev	474.0	12.09	2.180	.985	.6693	10.	.118
%RSD	299.6	33.63	59.46	13.94	85.16	.1530	7.331
#1	493.4	27.41	5.208	6.372	1.259	-6603.	-1.529
#2	-177.0	44.51	2.125	7.766	.3127	-6589.	-1.696

Elem	Si2881
Units	PPB
Avge	368500.
SDev	178.
%RSD	.0482
#1	368400.
#2	368600.

Analysis Report 10/08/04 11:28:39 AM

Method: 6010B Sample Name: 04ws1773 Operator: pps
Run Time: 10/08/04 11:22:49
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	48.58	536.8	11.78	1.830	4.999	13.82	18.36
SDev	.96	13.8	1.11	.054	.699	2.69	.39
%RSD	1.967	2.579	9.398	2.977	13.98	19.49	2.145
#1	49.25	527.0	12.56	1.869	5.494	15.72	18.63
#2	47.90	546.6	10.99	1.792	4.505	11.91	18.08

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	10.76	311.1	19.48	22.94	503.3	4.099	541.2
SDev	2.39	35.7	2.25	5.87	25.6	.064	84.5
%RSD	22.24	11.49	11.57	25.59	5.094	1.569	15.61
#1	12.45	336.4	21.07	18.79	485.2	4.145	600.9
#2	9.065	285.9	17.89	27.09	521.5	4.054	481.4

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	12.77	23.70	111.2	540.1	105.4	523.7	9.920
SDev	.23	1.47	5.3	8.9	.1	18.6	.212
%RSD	1.816	6.187	4.785	1.651	.1302	3.546	2.140
#1	12.94	24.74	115.0	546.4	105.5	536.8	10.07
#2	12.61	22.67	107.5	533.8	105.3	510.5	9.770

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	467.4	459.0	56.93	71.94	10.06	1629.	-1.525
SDev	286.2	28.6	11.21	4.96	1.08	2417.	.031
%RSD	61.23	6.224	19.70	6.890	10.79	148.4	2.014
#1	669.8	479.2	64.86	75.44	10.83	3338.	-1.504
#2	265.1	438.8	49.00	68.43	9.291	-80.27	-1.547

Elem	Si2881
Units	PPB
Avge	158800.
SDev	3579.
%RSD	2.253
#1	161400.
#2	156300.

Method: 6010B Sample Name: 04ws1702 Operator: pps
Run Time: 10/08/04 11:30:53
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k.3329	60.30	1.246	k-.0001	k-2.694	k-4.042	k-8.230
SDev	45.87	38.23	.008	.0057	5.724	1.711	2.281
%RSD	13780.	63.39	.6769	4618.	212.5	42.32	27.71
#1	k-32.10	33.27	1.252	k.0039	k1.354	k-2.833	k-6.618
#2	k32.77	87.33	1.240	k-.0041	k-6.741	k-5.252	k-9.843

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k-1.129	k-8.586	-5.560	k1.021	52.83	k.0407	92.93
SDev	.021	67.121	1.633	16.68	.87	1.153	4.07
%RSD	1.856	781.8	29.38	1633.	1.640	2831.	4.375
#1	k-1.114	k-56.05	-6.714	k12.81	53.44	k.8561	95.81
#2	k-1.144	k38.88	-4.405	k-10.77	52.21	k-.7746	90.06

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k-.5256	k-15.18	k535800.	S2117000.	183400.	503300.	k-6.728
SDev	.1296	.71	5332.	14372.	1708.	3961.	.073
%RSD	24.66	4.689	.9951	.6790	.9312	.7871	1.081
#1	k-.6173	k-15.69	k539600.	S2127000.	184600.	506100.	k-6.780
#2	k-.4340	k-14.68	k532100.	S2106000.	182200.	500500.	k-6.677

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	291.8	-202.9	-59.27	-59.39	k2.213	8132.	8.948
SDev	213.0	63.6	19.54	.00	.014	30e3	.179
%RSD	73.00	31.32	32.97	.0000	.6532	372.1	1.998
#1	141.2	-158.0	-73.09	-59.39	k2.223	-13260.	9.074
#2	442.5	-247.9	-45.45	-59.39	k2.203	29530.	8.821

Elem	Si2881
Units	PPB
Avge	219100.
SDev	312.
%RSD	.1422
#1	218900.
#2	219300.

Analysis Report 10/08/04 11:35:34 AM page 1

Method: 6010B Sample Name: 04ws1846 Operator: pps
Run Time: 10/08/04 11:33:17
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k1934.	2082.	487.5	k483.9	998.5	k475.4	471.6
SDev	39.	27.	.3	.7	8.6	1.4	2.7
%RSD	2.018	1.302	.0656	.1533	.8625	.2860	.5665
#1	k1962.	2063.	487.3	k483.3	992.4	k474.5	473.5
#2	k1906.	2101.	487.8	k484.4	1005.	k476.4	469.7

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	498.0	k1073.	472.9	k960.8	2175.	k987.2	1949.
SDev	1.1	59.	7.2	26.1	40.	.4	37.
%RSD	.2128	5.468	1.521	2.716	1.858	.0438	1.892
#1	498.8	k1115.	467.8	k979.2	2147.	k987.5	1975.
#2	497.3	k1032.	478.0	k942.3	2204.	k986.9	1922.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k477.9	k1017.	k539100.	S2163000.	182300.	510600.	k471.6
SDev	2.4	5.	461.	9336.	375.	1704.	.8
%RSD	.4954	.5121	.0856	.4316	.2055	.3337	.1631
#1	k476.2	k1013.	k538800.	S2157000.	182500.	509400.	k471.1
#2	k479.5	k1021.	k539400.	S2170000.	182000.	511800.	k472.1

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	186.3	-324.6	-21.09	-53.32	1871.	6822.	8.997
SDev	168.8	32.0	21.12	8.59	3.	9583.	.026
%RSD	90.64	9.851	100.2	16.11	.1542	140.5	.2869
#1	66.90	-347.2	-6.151	-59.39	1869.	45.99	8.979
#2	305.7	-302.0	-36.02	-47.25	1873.	13600.	9.016

Elem	Si2881
Units	PPB
Avge	231500.
SDev	2619.
%RSD	1.132
#1	229600.
#2	233300.

Analysis Report 10/08/04 11:48:16 AM

Method: 6010B Sample Name: qc267306 Operator: pps
Run Time: 10/08/04 11:46:22
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	21.46	7.706	.6158	-.0130	-.0000	.8439	-.8750
SDev	15.04	19.54	.0042	.0145	.0003	.3378	3.5249
%RSD	70.11	253.6	.6882	111.8	4172.	40.03	402.9
#1	10.82	21.52	.6188	-.0027	.0002	.6050	-3.367
#2	32.09	-6.113	.6128	-.0232	-.0002	1.083	1.618

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-1.907	-58.02	-3.526	3.710	-22.01	-.7950	36.86
SDev	1.030	11.35	.033	4.281	7.63	2.2520	29.65
%RSD	54.01	19.57	.9224	115.4	34.65	283.3	80.42
#1	-2.635	-49.99	-3.503	.6833	-16.62	.7974	57.83
#2	-1.179	-66.04	-3.549	6.737	-27.40	-2.387	15.90

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-.0250	24.94	14.45	160.2	17.53	9.518	-.4656
SDev	2.5432	6.85	4.43	18.6	3.83	5.371	.6320
%RSD	10180.	27.48	30.64	11.58	21.87	56.43	135.7
#1	-1.823	29.78	11.32	173.3	14.82	5.720	-.9126
#2	1.773	20.09	17.58	147.0	20.24	13.32	-.0187

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	158.3	-60.55	20.06	-17.56	.1567	-2544.	-1.452
SDev	331.8	13.47	15.15	2.08	.2220	12681.	.004
%RSD	209.7	22.24	75.56	11.84	141.7	498.4	.2770
#1	-76.39	-70.07	9.341	-19.03	.3137	-11510.	-1.455
#2	392.9	-51.03	30.77	-16.09	-.0003	6423.	-1.449

Elem	Si2881
Units	PPB
Avge	154300.
SDev	645.
%RSD	.4181
#1	154800.
#2	153900.

Analysis Report 10/08/04 11:51:04 AM page 1

Method: 6010B Sample Name: qc267307 Operator: pps
Run Time: 10/08/04 11:49:10
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2020.	1071.	2017.	52.67	216.5	2059.	517.0
SDev	9.	39.	5.	.32	3.9	6.	5.0
%RSD	.4288	3.658	.2505	.6139	1.796	.3032	.9631
#1	2014.	1099.	2021.	52.90	213.8	2063.	520.5
#2	2026.	1043.	2014.	52.45	219.3	2054.	513.5

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	268.2	2102.	405.1	522.7	1004.	209.9	1042.
SDev	2.5	2.	5.1	7.3	2.	1.0	131.
%RSD	.9326	.0920	1.267	1.388	.2055	.4793	12.60
#1	270.0	2100.	408.7	527.9	1005.	210.6	948.9
#2	266.4	2103.	401.5	517.6	1002.	209.2	1134.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	522.6	537.8	20560.	21010.	19870.	20930.	524.1
SDev	.7	4.3	35.	28.	181.	12.	.0
%RSD	.1252	.8001	.1696	.1311	.9119	.0591	.0072
#1	522.1	534.8	20590.	21030.	19990.	20940.	524.0
#2	523.0	540.9	20540.	20990.	19740.	20920.	524.1

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10190.	21290.	1002.	977.1	979.3	-4167.	-.6822
SDev	365.	67.	12.	6.3	3.3	12637.	.0287
%RSD	3.577	.3133	1.195	.6463	.3333	303.3	4.206
#1	9936.	21330.	1011.	972.6	981.6	4769.	-.6619
#2	10450.	21240.	994.0	981.6	977.0	-13100.	-.7025

Elem	Si2881
Units	PPB
Avge	172900.
SDev	560.
%RSD	.3238
#1	172500.
#2	173300.

Analysis Report 10/08/04 11:53:41 AM page 1

Method: 6010B Sample Name: qc267308 Operator: pps
Run Time: 10/08/04 11:51:47
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2045.	1031.	2008.	52.21	218.6	2041.	521.0
SDev	24.	35.	7.	.25	2.4	10.	6.7
%RSD	1.150	3.383	.3241	.4770	1.097	.4689	1.285
#1	2029.	1007.	2003.	52.04	220.2	2034.	525.7
#2	2062.	1056.	2013.	52.39	216.9	2048.	516.2

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	267.2	2104.	408.7	527.7	1080.	210.8	1041.
SDev	.6	4.	2.4	13.4	80.	2.6	31.
%RSD	.2363	.1789	.5771	2.533	7.413	1.233	2.980
#1	266.7	2106.	410.4	518.2	1136.	212.6	1062.
#2	267.6	2101.	407.0	537.1	1023.	209.0	1019.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	523.1	540.8	20440.	20950.	19830.	20850.	520.5
SDev	.8	1.0	70.	34.	190.	72.	1.7
%RSD	.1504	.1931	.3403	.1638	.9558	.3434	.3339
#1	523.7	540.1	20390.	20930.	19970.	20800.	519.3
#2	522.5	541.5	20480.	20980.	19700.	20900.	521.7

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10230.	21210.	1019.	974.0	974.0	-9837.	-.7684
SDev	536.	96.	9.	9.1	1.8	4603.	.2002
%RSD	5.235	.4525	.8449	.9312	.1867	46.80	26.06
#1	10610.	21140.	1013.	967.6	972.7	-6582.	-.9100
#2	9854.	21280.	1025.	980.4	975.3	-13090.	-.6268

Elem	Si2881
Units	PPB
Avge	175700.
SDev	1834.
%RSD	1.044
#1	177000.
#2	174400.

Analysis Report 10/08/04 11:56:05 AM page 1

Method: 6010B Sample Name: 174988-004 Operator: pps
Run Time: 10/08/04 11:54:11
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k43.45	355.1	1559.	k6.505	k11.89	k792.8	245.0
SDev	3.02	25.6	2.	.532	.86	3.2	.9
%RSD	6.951	7.200	.1586	8.183	7.249	.4061	.3524
#1	k41.31	337.0	1561.	k6.128	k11.28	k795.1	244.3
#2	k45.58	373.1	1557.	k6.881	k12.50	k790.5	245.6

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	756.9	k4261.	30.71	k910.6	187.6	k-2.550	-100.0
SDev	2.6	51.	1.60	15.3	19.3	2.070	29.6
%RSD	.3456	1.203	5.212	1.682	10.29	81.16	29.57
#1	758.8	k4225.	29.58	k921.5	201.3	k-4.014	-79.11
#2	755.1	k4298.	31.84	k899.8	174.0	k-1.087	-120.9

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k871.0	k3098.	k323700.	S1842000.	479900.	k113000.	k17880.
SDev	2.8	6.	581.	7584.	104.	111.	14.
%RSD	.3226	.2067	.1795	.4118	.0217	.0982	.0778
#1	k869.0	k3103.	k324100.	S1847000.	480000.	k113100.	k17870.
#2	k873.0	k3094.	k323300.	S1836000.	479800.	k113000.	k17890.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	31900.	56320.	21.94	191.8	7072.	-16260.	5.858
SDev	380.	239.	20.01	11.5	6.	10132.	.005
%RSD	1.191	.4243	91.22	6.007	.0826	62.32	.0916
#1	32170.	56490.	36.09	183.7	7076.	-9094.	5.862
#2	31630.	56150.	7.787	199.9	7068.	-23420.	5.854

Elem	Si2881
Units	PPB
Avge	599800.
SDev	2475.
%RSD	.4127
#1	601600.
#2	598100.

Analysis Report 10/08/04 11:59:38 AM page 1

Method: 6010B Sample Name: qc267311 Operator: pps
Run Time: 10/08/04 11:57:45
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	5.822	29.16	319.6	1.579	4.734	169.5	46.70
SDev	14.42	7.07	.2	.027	.514	2.1	3.47
%RSD	247.6	24.25	.0481	1.737	10.87	1.214	7.422
#1	-4.372	24.16	319.7	1.598	5.098	170.9	49.15
#2	16.02	34.16	319.5	1.559	4.370	168.0	44.25

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	154.6	935.1	-1.650	198.8	109.6	.5380	-21.00
SDev	1.8	49.9	1.846	11.7	1.7	3.269	50.18
%RSD	1.170	5.340	111.9	5.902	1.571	607.5	239.0
#1	153.3	970.4	-.3446	207.1	108.4	-1.773	-56.48
#2	155.8	899.8	-2.955	190.5	110.8	2.849	14.49

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	185.2	648.3	61910.	137500.	104500.	22950.	3804.
SDev	4.3	.1	78.	246.	1798.	46.	2.
%RSD	2.327	.0213	.1263	.1789	1.721	.2007	.0403
#1	182.2	648.2	61960.	137600.	105800.	22980.	3805.
#2	188.3	648.4	61850.	137300.	103200.	22920.	3802.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	6358.	11110.	18.74	29.64	1461.	2158.	-.0023
SDev	19.	22.	.63	1.53	3.	1130.	.0378
%RSD	.3005	.1954	3.358	5.148	.1935	52.34	1631.
#1	6371.	11120.	18.30	30.72	1463.	2957.	-.0290
#2	6344.	11090.	19.19	28.56	1459.	1360.	.0244

Elem	Si2881
Units	PPB
Avge	283000.
SDev	1901.
%RSD	.6716
#1	284400.
#2	281700.

Method: 6010B Sample Name: 174988-004 Operator: pps
Run Time: 10/08/04 12:00:13
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	27.16	75.22	326.1	1.618	2.323	173.0	51.45
SDev	15.03	33.73	1.6	.016	1.003	4.9	2.17
%RSD	55.34	44.83	.4827	.9819	43.19	2.859	4.226
#1	16.53	51.37	327.2	1.607	1.614	176.5	52.99
#2	37.78	99.07	325.0	1.630	3.032	169.5	49.92

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	157.0	939.4	1.976	225.1	89.85	-2.592	-11.37
SDev	1.5	32.7	.128	17.5	35.33	3.285	21.17
%RSD	.9351	3.477	6.468	7.794	39.32	126.7	186.3
#1	158.1	962.5	2.067	212.7	114.8	-4.915	3.604
#2	156.0	916.3	1.886	237.5	64.87	-.2692	-26.34

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	188.1	666.8	63380.	141000.	106300.	23510.	3890.
SDev	4.7	2.1	191.	388.	894.	91.	16.
%RSD	2.477	.3201	.3013	.2755	.8416	.3863	.4080
#1	191.4	665.3	63510.	141300.	106900.	23570.	3901.
#2	184.8	668.3	63240.	140700.	105600.	23450.	3879.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	6875.	11350.	1.415	-2.377	1493.	-10460.	.1044
SDev	37.	121.	4.215	4.629	8.	10107.	.0195
%RSD	.5350	1.067	298.0	194.8	.5243	96.60	18.65
#1	6849.	11440.	4.396	-5.650	1498.	-3316.	.0906
#2	6901.	11260.	-1.566	.8965	1487.	-17610.	.1181

Elem	Si2881
Units	PPB
Avge	288200.
SDev	1362.
%RSD	.4726
#1	289200.
#2	287200.

Analysis Report 10/08/04 12:04:46 PM page 1

Method: 6010B Sample Name: qc267311 Operator: pps
Run Time: 10/08/04 12:02:52
Comment: 95280,25
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	5.541	-6.096	63.09	.3263	.7656	33.83	5.706
SDev	15.09	7.890	.40	.6621	1.027	.94	4.751
%RSD	272.3	129.4	.6314	202.9	134.2	2.775	83.26
#1	16.21	-11.68	63.37	-.1418	.0392	33.17	2.346
#2	-5.126	-.5173	62.81	.7945	1.492	34.49	9.066

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	28.67	176.4	-6.045	47.23	51.85	-2.004	-.1829
SDev	1.80	19.2	.832	5.31	62.55	4.540	33.121
%RSD	6.284	10.91	13.76	11.24	120.7	226.6	18110.
#1	27.40	162.8	-5.457	50.99	7.614	1.206	23.24
#2	29.95	190.0	-6.633	43.48	96.08	-5.215	-23.60

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	37.43	130.3	11910.	26690.	20470.	4486.	746.1
SDev	1.52	.5	14.	90.	121.	13.	.5
%RSD	4.069	.4087	.1150	.3389	.5896	.2879	.0654
#1	36.35	130.0	11900.	26630.	20380.	4477.	745.8
#2	38.51	130.7	11920.	26750.	20550.	4495.	746.5

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1303.	2136.	10.47	-11.09	282.7	-5788.	-1.143
SDev	246.	29.	7.26	7.42	.5	10344.	.139
%RSD	18.85	1.340	69.39	66.93	.1907	178.7	12.18
#1	1129.	2116.	5.331	-16.34	283.1	1526.	-1.045
#2	1476.	2156.	15.60	-5.841	282.3	-13100.	-1.242

Elem	Si2881
Units	PPB
Avge	246900.
SDev	3016.
%RSD	1.222
#1	244700.
#2	249000.

Analysis Report 10/08/04 12:09:12 PM page 1

Method: 6010B Sample Name: 04ws1781 Operator: pps
Run Time: 10/08/04 12:07:01
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1937.	1965.	1032.	2012.	2035.	1994.	2015.
SDev	19.	18.	2.	.	4.	10.	9.
%RSD	.9985	.9395	.1698	.0173	.1994	.4917	.4531
#1	1923.	1978.	1030.	2012.	2032.	1987.	2009.
#2	1951.	1952.	1033.	2012.	2038.	2001.	2021.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2014.	2033.	2007.	2047.	1900.	1062.	2028.
SDev	6.	30.	34.	25.	23.	4.	38.
%RSD	.2847	1.484	1.690	1.212	1.210	.3701	1.883
#1	2010.	2054.	1983.	2029.	1884.	1059.	2001.
#2	2018.	2011.	2031.	2064.	1916.	1065.	2055.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1996.	2022.	1043.	2078.	1885.	1955.	2023.
SDev	9.	15.	1.	8.	21.	27.	7.
%RSD	.4295	.7512	.0863	.4063	1.118	1.370	.3317
#1	1990.	2011.	1042.	2072.	1870.	1936.	2019.
#2	2002.	2032.	1043.	2083.	1900.	1974.	2028.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10180.	10140.	1872.	974.5	1857.	3228.	-1.209
SDev	164.	28.	32.	11.8	2.	9254.	.018
%RSD	1.614	.2772	1.729	1.209	.1013	286.7	1.505
#1	10060.	10120.	1850.	982.9	1856.	-3316.	-1.196
#2	10290.	10160.	1895.	966.2	1859.	9771.	-1.221

Elem	Si2881
Units	PPB
Avge	199700.
SDev	2004.
%RSD	1.003
#1	198300.
#2	201100.

Analysis Report 10/08/04 12:13:11 PM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 10/08/04 12:11:15
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	21.88	27.76	1.252	.9453	1.476	3.084	-.0086
SDev	7.72	15.80	.003	.0048	.004	.688	2.3851
%RSD	35.28	56.92	.2526	.5054	.2838	22.32	27750.
#1	16.42	38.93	1.254	.9487	1.479	2.597	-1.695
#2	27.34	16.59	1.249	.9419	1.473	3.571	1.678

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-.3666	-37.73	.2098	4.370	30.90	.8136	2.736
SDev	.0102	6.03	1.704	8.189	3.91	.0001	63.68
%RSD	2.795	16.00	812.3	187.4	12.65	.0139	2327.
#1	-.3594	-41.99	-.9951	-1.420	28.13	.8136	47.77
#2	-.3739	-33.46	1.415	10.16	33.66	.8137	-42.29

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1.811	-1.023	7.601	-1.962	5.737	-1.931	.4580
SDev	.016	.513	.030	1.211	1.035	5.508	.6490
%RSD	.8936	50.20	.3937	61.73	18.04	285.3	141.7
#1	1.799	-.6598	7.622	-1.106	6.468	1.964	.9169
#2	1.822	-1.386	7.580	-2.819	5.005	-5.825	-.0009

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-143.8	-3.303	-8.388	6.096	1.269	-9959.	-1.351
SDev	231.9	6.215	14.797	3.774	.003	9394.	.070
%RSD	161.2	188.2	176.4	61.91	.2693	94.33	5.182
#1	20.14	1.091	-18.85	8.764	1.271	-16600.	-1.400
#2	-307.8	-7.697	2.075	3.427	1.266	-3316.	-1.301

Elem	Si2881
Units	PPB
Avge	381400.
SDev	779.
%RSD	.2043
#1	380900.
#2	382000.

Analysis Report 10/08/04 12:20:48 PM page 1

Method: 6010B Sample Name: qc267309 Operator: pps
Run Time: 10/08/04 12:18:54
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k598.2	1206.	3034.	k52.49	k191.7	k2609.	700.8
SDev	8.2	30.	13.	.37	3.0	7.	10.0
%RSD	1.370	2.486	.4274	.7122	1.584	.2829	1.429
#1	k592.4	1185.	3024.	k52.22	k189.6	k2604.	707.8
#2	k604.0	1227.	3043.	k52.75	k193.9	k2614.	693.7

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1077.	k5475.	329.0	k1515.	991.7	k175.3	762.8
SDev	2.	56.	4.3	11.	95.9	2.5	55.9
%RSD	.1939	1.030	1.321	.7271	9.670	1.452	7.334
#1	1076.	k5515.	332.1	k1508.	1060.	k173.5	802.3
#2	1079.	k5435.	326.0	k1523.	923.9	k177.1	723.2

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k1456.	k3634.	k445200.	S1846000.	507100.	k148800.	k22130.
SDev	7.	1.	2319.	6173.	1836.	642.	63.
%RSD	.4708	.0257	.5210	.3345	.3621	.4314	.2850
#1	k1451.	k3633.	k443500.	S1850000.	505800.	k148300.	k22090.
#2	k1461.	k3634.	k446800.	S1841000.	508400.	k149200.	k22180.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	44990.	82640.	810.7	936.2	8901.	9729.	6.961
SDev	135.	432.	.2	9.5	33.	43e3	.165
%RSD	.2997	.5222	.0268	1.012	.3762	440.6	2.375
#1	45080.	82340.	810.9	942.9	8878.	40040.	7.078
#2	44890.	82950.	810.6	929.5	8925.	-20580.	6.844

Elem	Si2881
Units	PPB
Avge	566100.
SDev	3950.
%RSD	.6978
#1	563300.
#2	568800.

Analysis Report 10/08/04 12:23:21 PM page 1

Method: 6010B Sample Name: qc267310 Operator: pps
Run Time: 10/08/04 12:21:27
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k702.1	1219.	3120.	k55.40	k199.5	k2648.	714.5
SDev	67.4	15.	10.	.10	1.2	14.	6.8
%RSD	9.606	1.214	.3209	.1809	.5857	.5220	.9586
#1	k654.4	1208.	3113.	k55.47	k200.3	k2638.	709.6
#2	k749.8	1229.	3127.	k55.33	k198.7	k2658.	719.3

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1040.	k6030.	343.9	k1470.	1006.	k178.2	627.7
SDev	6.	5.	5.0	24.	125.	1.6	112.5
%RSD	.5292	.0868	1.464	1.634	12.41	.9109	17.93
#1	1036.	k6034.	347.5	k1487.	1094.	k177.1	548.1
#2	1044.	k6026.	340.4	k1453.	917.7	k179.4	707.3

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k1440.	k3437.	k423600.	S1889000.	494600.	k144100.	k16830.
SDev	4.	25.	2505.	6386.	956.	920.	70.
%RSD	.2733	.7405	.5912	.3381	.1933	.6387	.4177
#1	k1437.	k3419.	k421900.	S1884000.	493900.	k143400.	k16780.
#2	k1443.	k3455.	k425400.	S1893000.	495300.	k144700.	k16880.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	44710.	80980.	855.4	1001.	9273.	22520.	6.807
SDev	208.	528.	10.2	29.	22.	3221.	.070
%RSD	.4643	.6515	1.189	2.935	.2405	14.30	1.022
#1	44560.	80610.	862.6	980.1	9258.	20250.	6.758
#2	44860.	81360.	848.2	1022.	9289.	24800.	6.857

Elem	Si2881
Units	PPB
Avge	663000.
SDev	5200.
%RSD	.7843
#1	659400.
#2	666700.

Method: 6010B Sample Name: qc267309 Operator: pps
Run Time: 10/08/04 12:24:35
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	131.8	267.2	673.4	11.38	43.55	603.3	162.5
SDev	46.3	27.4	7.9	.53	.38	2.9	8.6
%RSD	35.16	10.26	1.178	4.663	.8707	.4787	5.277
#1	164.5	286.6	667.8	11.01	43.82	601.3	168.6
#2	99.00	247.8	679.0	11.76	43.28	605.4	156.4

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	236.5	1263.	65.36	348.1	173.8	36.99	221.6
SDev	.0	50.	.54	3.5	11.0	2.55	78.3
%RSD	.0064	3.955	.8333	1.013	6.311	6.894	35.33
#1	236.5	1227.	65.75	345.6	166.0	38.79	166.2
#2	236.5	1298.	64.98	350.6	181.6	35.19	277.0

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	331.5	829.7	91040.	132900.	117700.	32940.	5077.
SDev	2.0	.2	903.	940.	335.	230.	44.
%RSD	.5979	.0293	.9923	.7075	.2844	.6995	.8632
#1	330.1	829.9	90400.	132200.	118000.	32780.	5046.
#2	332.9	829.5	91680.	133500.	117500.	33100.	5108.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10100.	17960.	194.0	191.8	1988.	4000.	.5347
SDev	650.	142.	28.5	1.3	21.	10e3	.1647
%RSD	6.435	.7910	14.67	.6927	1.065	258.7	30.80
#1	10560.	17860.	173.9	190.8	1973.	11320.	.6511
#2	9639.	18060.	214.1	192.7	2003.	-3316.	.4182

Elem	Si2881
Units	PPB
Avge	315000.
SDev	2317.
%RSD	.7357
#1	316600.
#2	313400.

Analysis Report 10/08/04 12:28:50 PM page 1

Method: 6010B Sample Name: qc267310 Operator: pps
Run Time: 10/08/04 12:26:56
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	155.7	265.2	619.5	10.67	43.02	552.5	151.2
SDev	3.0	13.6	1.3	.05	.82	.1	5.2
%RSD	1.924	5.122	.2021	.4398	1.903	.0127	3.458
#1	157.8	274.8	618.7	10.64	43.59	552.5	147.5
#2	153.6	255.6	620.4	10.71	42.44	552.4	154.9

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	204.2	1254.	68.15	312.6	180.5	37.44	175.4
SDev	.8	73.	3.86	2.8	60.3	.14	.9
%RSD	.4135	5.822	5.662	.9098	33.41	.3748	.4971
#1	203.6	1306.	70.88	314.6	137.9	37.34	174.8
#2	204.8	1203.	65.42	310.6	223.2	37.54	176.0

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	297.1	707.6	78040.	129600.	103600.	28590.	3481.
SDev	1.3	.3	220.	243.	144.	150.	7.
%RSD	.4305	.0357	.2815	.1872	.1392	.5240	.1942
#1	296.2	707.8	77890.	129500.	103700.	28480.	3476.
#2	298.0	707.4	78200.	129800.	103500.	28690.	3485.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	8077.	15830.	184.3	184.9	1854.	-200.8	.3573
SDev	27.	26.	27.3	20.4	1.	13319.	.0557
%RSD	.3300	.1651	14.82	11.02	.0724	6633.	15.60
#1	8096.	15810.	165.0	170.5	1853.	9217.	.3967
#2	8058.	15850.	203.6	199.3	1855.	-9619.	.3178

Elem	Si2881
Units	PPB
Avge	320200.
SDev	2054.
%RSD	.6415
#1	318800.
#2	321700.

Analysis Report 10/08/04 12:32:01 PM page 1

Method: 6010B Sample Name: qc267350 Operator: pps
Run Time: 10/08/04 12:30:08
Comment: 95280,04ss171,0.1/10,04ss172,0.1/10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k1807.	1220.	3322.	k53.56	k199.3	k2486.	674.1
SDev	30.	16.	34.	.22	1.4	27.	3.2
%RSD	1.674	1.307	1.020	.4033	.6947	1.087	.4707
#1	k1786.	1231.	3298.	k53.41	k200.2	k2467.	671.9
#2	k1828.	1208.	3346.	k53.72	k198.3	k2505.	676.4

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	987.3	k6128.	385.1	k1332.	1035.	k179.3	736.3
SDev	12.0	49.	6.6	2.	139.	1.6	20.2
%RSD	1.215	.8057	1.706	.1586	13.41	.9058	2.749
#1	978.9	k6093.	380.4	k1331.	1133.	k178.1	721.9
#2	995.8	k6163.	389.7	k1334.	936.9	k180.4	750.6

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k1325.	k3542.	k342300.	S1871000.	468000.	k131000.	k18070.
SDev	10.	44.	4717.	17150.	3487.	1733.	193.
%RSD	.7689	1.256	1.378	.9165	.7451	1.323	1.068
#1	k1318.	k3510.	k338900.	S1859000.	465500.	k129800.	k17940.
#2	k1332.	k3573.	k345600.	S1883000.	470400.	k132200.	k18210.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	40800.	76660.	871.9	1093.	7761.	24390.	6.337
SDev	378.	955.	27.5	11.	75.	18364.	.092
%RSD	.9278	1.246	3.159	.9764	.9669	75.28	1.448
#1	40530.	75980.	852.4	1086.	7708.	37380.	6.272
#2	41060.	77330.	891.4	1101.	7814.	11410.	6.402

Elem	Si2881
Units	PPB
Avge	601800.
SDev	5201.
%RSD	.8644
#1	598100.
#2	605400.

Method: 6010B Sample Name: 174988-006 Operator: pps
Run Time: 10/08/04 12:33:12
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	24.99	1.364	163.8	2.139	1.643	228.7	30.45
SDev	.01	3.378	1.2	.278	2.039	4.2	1.91
%RSD	.0311	247.7	.7139	13.00	124.1	1.855	6.269
#1	24.98	-1.025	164.6	1.943	3.085	231.7	29.10
#2	24.99	3.752	163.0	2.336	.2018	225.7	31.80

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	128.2	52.40	2.560	200.6	23.64	.1581	-6.651
SDev	.8	1.71	9.184	19.0	31.09	.0362	90.320
%RSD	.5994	3.256	358.8	9.449	131.5	22.90	1358.
#1	127.6	51.19	9.054	187.2	1.656	.1325	57.22
#2	128.7	53.60	-3.934	214.0	45.62	.1837	-70.52

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	245.3	193.5	85490.	8250.	89440.	25450.	630.2
SDev	2.4	3.9	124.	57.	354.	84.	3.7
%RSD	.9731	2.003	.1454	.6884	.3954	.3298	.5821
#1	243.6	196.2	85580.	8290.	89690.	25510.	632.8
#2	247.0	190.7	85400.	8210.	89190.	25390.	627.6

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	8083.	21630.	2.429	35.74	1806.	-7350.	.0771
SDev	805.	29.	2.863	5.57	1.	7950.	.0191
%RSD	9.965	.1350	117.9	15.57	.0516	108.2	24.84
#1	8653.	21650.	4.453	39.68	1807.	-12970.	.0635
#2	7514.	21610.	.4044	31.81	1805.	-1729.	.0906

Elem	Si2881
Units	PPB
Avge	331900.
SDev	1202.
%RSD	.3622
#1	332700.
#2	331000.

Analysis Report 10/08/04 12:37:54 PM page 1

Method: 6010B Sample Name: qc267312 Operator: pps
Run Time: 10/08/04 12:36:00
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	133.0	208.0	562.7	12.83	39.47	642.9	123.5
SDev	.8	49.7	.2	.07	.79	5.9	1.6
%RSD	.5841	23.90	.0311	.5068	2.002	.9238	1.312
#1	132.4	243.1	562.6	12.78	40.03	638.7	124.6
#2	133.5	172.8	562.9	12.87	38.91	647.1	122.3

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	195.1	485.5	66.19	324.2	145.0	36.14	179.0
SDev	2.4	18.3	6.75	19.3	15.3	2.31	14.8
%RSD	1.236	3.763	10.20	5.963	10.56	6.405	8.242
#1	193.4	498.4	61.41	310.5	134.2	34.50	168.5
#2	196.8	472.6	70.96	337.8	155.8	37.78	189.4

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	377.5	317.5	109600.	13370.	109900.	32970.	835.8
SDev	1.9	1.4	225.	59.	404.	158.	2.7
%RSD	.4910	.4552	.2049	.4433	.3676	.4779	.3271
#1	376.2	316.5	109500.	13330.	109600.	32860.	833.9
#2	378.8	318.6	109800.	13420.	110200.	33090.	837.8

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10700.	28790.	194.1	188.9	2088.	-9462.	.4816
SDev	450.	22.	7.1	1.2	1.	8691.	.1216
%RSD	4.200	.0752	3.652	.6176	.0300	91.85	25.24
#1	10390.	28780.	189.1	188.1	2088.	-15610.	.5676
#2	11020.	28810.	199.1	189.7	2089.	-3316.	.3957

Elem	Si2881
Units	PPB
Avge	300100.
SDev	1295.
%RSD	.4317
#1	299200.
#2	301000.

Analysis Report 10/08/04 12:40:15 PM page 1

Method: 6010B Sample Name: qc267313 Operator: pps
Run Time: 10/08/04 12:38:22
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	115.6	232.2	592.4	12.10	41.74	678.1	132.5
SDev	4.1	2.1	1.8	.38	2.20	4.3	6.4
%RSD	3.573	.8937	.3015	3.116	5.266	.6295	4.834
#1	112.7	233.7	591.1	11.83	40.18	675.1	127.9
#2	118.6	230.8	593.6	12.36	43.29	681.1	137.0

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	216.6	511.2	66.26	357.3	165.5	36.68	252.7
SDev	1.3	58.1	.39	13.6	34.0	2.38	40.5
%RSD	.5916	11.36	.5957	3.809	20.54	6.483	16.03
#1	215.7	470.2	65.98	366.9	141.5	35.00	281.3
#2	217.5	552.3	66.54	347.6	189.6	38.36	224.1

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	415.6	346.0	123000.	14490.	125100.	36550.	949.3
SDev	6.1	3.5	786.	99.	455.	270.	6.1
%RSD	1.459	1.010	.6386	.6841	.3635	.7396	.6440
#1	411.4	343.5	122500.	14420.	124800.	36360.	945.0
#2	419.9	348.4	123600.	14560.	125400.	36740.	953.7

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	12210.	31730.	180.1	201.8	2276.	-3278.	.6473
SDev	245.	91.	1.7	4.1	12.	13130.	.0245
%RSD	2.003	.2878	.9668	2.031	.5068	400.5	3.781
#1	12040.	31660.	181.3	204.7	2268.	-12560.	.6300
#2	12380.	31790.	178.8	198.9	2284.	6006.	.6646

Elem	Si2881
Units	PPB
Avge	306600.
SDev	2244.
%RSD	.7320
#1	305000.
#2	308200.

Analysis Report 10/08/04 12:43:00 PM page 1

Method: 6010B Sample Name: 174988-009 Operator: pps
Run Time: 10/08/04 12:41:06
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	9.356	68.17	158.6	2.377	-.5167	225.7	30.62
SDev	37.06	8.19	1.4	.016	1.0065	.3	2.48
%RSD	396.1	12.01	.8699	.6794	194.8	.1548	8.099
#1	-16.85	73.96	159.6	2.389	.1951	225.9	32.37
#2	35.56	62.38	157.7	2.366	-1.228	225.4	28.87

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	152.3	66.66	-3.472	210.6	66.57	.1243	-55.27
SDev	.1	19.89	.906	10.5	92.85	.0079	50.12
%RSD	.0580	29.85	26.10	4.975	139.5	6.333	90.67
#1	152.2	80.73	-2.831	218.0	132.2	.1298	-19.84
#2	152.4	52.59	-4.113	203.2	.9101	.1187	-90.71

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	244.9	206.7	82720.	7523.	88760.	24790.	738.8
SDev	2.6	4.5	49.	10.	844.	36.	2.0
%RSD	1.082	2.160	.0589	.1268	.9504	.1436	.2657
#1	246.8	209.9	82750.	7529.	89360.	24770.	740.2
#2	243.0	203.5	82680.	7516.	88170.	24820.	737.5

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	7977.	18550.	2.460	31.77	1801.	-6518.	.1794
SDev	465.	28.	8.553	1.71	3.	19.	.1143
%RSD	5.824	.1509	347.7	5.379	.1793	.2950	63.75
#1	8305.	18570.	8.508	32.98	1803.	-6531.	.0985
#2	7648.	18530.	-3.588	30.56	1799.	-6504.	.2602

Elem	Si2881
Units	PPB
Avge	335400.
SDev	422.
%RSD	.1258
#1	335700.
#2	335100.

Analysis Report 10/08/04 12:45:24 PM page 1

Method: 6010B Sample Name: qc267314 Operator: pps
Run Time: 10/08/04 12:43:30
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	144.7	293.0	572.5	11.68	37.00	606.1	120.1
SDev	27.9	16.6	5.0	.07	.77	2.3	3.1
%RSD	19.30	5.660	.8661	.6276	2.083	.3867	2.587
#1	125.0	304.7	569.0	11.73	36.46	604.5	122.3
#2	164.5	281.2	576.0	11.63	37.55	607.8	117.9

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	198.4	534.4	66.02	313.6	190.1	35.78	164.4
SDev	1.8	20.2	1.08	7.6	22.1	1.27	43.5
%RSD	.9132	3.788	1.640	2.431	11.63	3.555	26.44
#1	197.1	548.8	66.79	319.0	205.7	36.68	195.2
#2	199.7	520.1	65.26	308.3	174.5	34.89	133.7

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	357.0	319.2	102800.	13830.	125800.	31750.	1176.
SDev	2.3	2.0	616.	83.	396.	195.	8.
%RSD	.6517	.6313	.5991	.5967	.3147	.6147	.6507
#1	358.6	320.6	102400.	13770.	125500.	31620.	1170.
#2	355.3	317.7	103300.	13890.	126100.	31890.	1181.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10550.	24620.	141.0	176.6	1894.	-4825.	.7897
SDev	39.	130.	7.4	8.1	12.	15373.	.0454
%RSD	.3677	.5290	5.279	4.609	.6278	318.6	5.755
#1	10580.	24530.	135.7	182.3	1886.	6045.	.7575
#2	10520.	24710.	146.2	170.8	1902.	-15700.	.8218

Elem	Si2881
Units	PPB
Avge	297100.
SDev	924.
%RSD	.3111
#1	297800.
#2	296500.

Method: 6010B Sample Name: 04ws1781 Operator: pps
Run Time: 10/08/04 12:51:45
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1962.	1992.	1024.	1926.	2003.	1992.	2008.
SDev	20.	72.	27.	55.	47.	53.	65.
%RSD	1.009	3.624	2.599	2.863	2.355	2.645	3.256
#1	1948.	1941.	1005.	1887.	1970.	1955.	1962.
#2	1976.	2043.	1043.	1965.	2037.	2029.	2054.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1999.	1942.	1984.	2024.	1976.	1035.	2054.
SDev	52.	7.	57.	71.	35.	23.	53.
%RSD	2.584	.3733	2.883	3.495	1.768	2.193	2.603
#1	1962.	1937.	1944.	1974.	1952.	1019.	2016.
#2	2035.	1947.	2025.	2074.	2001.	1051.	2091.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1957.	1976.	1039.	1970.	2011.	1955.	2004.
SDev	52.	57.	30.	56.	64.	50.	55.
%RSD	2.644	2.906	2.899	2.868	3.207	2.543	2.759
#1	1920.	1935.	1018.	1930.	1965.	1920.	1965.
#2	1994.	2016.	1061.	2010.	2056.	1990.	2043.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10120.	9691.	1996.	1029.	1923.	-6716.	-1.037
SDev	73.	298.	56.	45.	52.	4808.	.102
%RSD	.7186	3.079	2.811	4.360	2.681	71.59	9.857
#1	10070.	9480.	1956.	997.0	1887.	-3316.	-1.110
#2	10180.	9902.	2036.	1060.	1959.	-10120.	-.9650

Elem	Si2881
Units	PPB
Avge	206300.
SDev	4176.
%RSD	2.024
#1	203400.
#2	209300.

Analysis Report 10/08/04 01:10:15 PM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 10/08/04 13:08:20
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	10.49	-5.391	.0001	-.4313	-.6719	.3478	-.0035
SDev	7.12	13.761	.0000	.0095	.9533	.3346	2.2630
%RSD	67.88	255.2	2.194	2.194	141.9	96.20	64260.
#1	15.52	4.339	.0001	-.4380	-1.346	.1112	-1.604
#2	5.455	-15.12	.0001	-.4246	.0022	.5845	1.597

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-.0290	3.671	-2.687	9.043	10.75	-.7277	-.0711
SDev	.5464	5.159	.863	4.879	7.54	2.0753	34.109
%RSD	1886.	140.5	32.12	53.95	70.14	285.2	47940.
#1	-.4154	7.319	-3.298	5.593	16.08	-2.195	24.05
#2	.3574	.0233	-2.077	12.49	5.419	.7398	-24.19

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.8126	-.0347	7.073	-5.719	-3.766	9.002	.4220
SDev	1.184	.0119	5.857	6.702	2.122	.170	.6212
%RSD	145.7	34.42	82.80	117.2	56.37	1.886	147.2
#1	1.650	-.0262	2.932	-10.46	-5.266	8.882	-.0172
#2	-.0248	-.0431	11.21	-.9800	-2.265	9.122	.8612

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	235.6	-1.651	-4.058	.4195	-.3172	-1660.	-1.256
SDev	325.7	12.832	2.779	11.54	.4486	2342.	.061
%RSD	138.3	777.2	68.49	2750.	141.4	141.1	4.894
#1	5.269	-10.72	-6.023	-7.738	-.0000	-3316.	-1.212
#2	465.9	7.422	-2.093	8.577	-.6345	-3.857	-1.299

Elem	Si2881
Units	PPB
Avge	379100.
SDev	2993.
%RSD	.7895
#1	376900.
#2	381200.

Method: 6010B Sample Name: qc267315 Operator: pps
Run Time: 10/08/04 13:10:57
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	118.9	187.8	504.8	10.14	37.36	596.5	120.1
SDev	44.8	8.1	1.6	.11	1.27	.2	9.8
%RSD	37.69	4.306	.3105	1.122	3.405	.0311	8.159
#1	150.6	193.5	503.7	10.06	36.46	596.6	113.1
#2	87.21	182.1	505.9	10.22	38.26	596.4	127.0

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	204.8	452.4	52.69	331.1	263.8	31.09	226.7
SDev	.9	54.9	4.79	9.5	23.4	2.28	2.1
%RSD	.4305	12.14	9.082	2.872	8.874	7.332	.9246
#1	205.4	491.3	56.07	337.8	280.4	29.48	225.2
#2	204.2	413.6	49.31	324.3	247.3	32.70	228.1

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	345.9	311.3	104800.	11660.	112600.	31300.	895.9
SDev	.1	2.9	347.	48.	798.	134.	.9
%RSD	.0421	.9249	.3307	.4100	.7084	.4285	.1025
#1	346.0	313.3	104600.	11620.	112100.	31200.	895.2
#2	345.8	309.3	105100.	11690.	113200.	31390.	896.5

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10750.	23070.	166.6	183.9	2075.	-20680.	.6219
SDev	69.	75.	.2	2.3	3.	17932.	.0394
%RSD	.6406	.3264	.0969	1.242	.1398	86.73	6.328
#1	10700.	23010.	166.5	182.3	2073.	-7997.	.5940
#2	10800.	23120.	166.8	185.6	2077.	-33360.	.6497

Elem	Si2881
Units	PPB
Avge	312400.
SDev	919.
%RSD	.2941
#1	311800.
#2	313100.

Method: 6010B Sample Name: 174988-017 Operator: pps
Run Time: 10/08/04 13:13:34
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	9.278	72.47	578.9	1.619	25.62	292.8	78.21
SDev	14.21	54.34	2.4	.015	4.57	1.8	1.98
%RSD	153.2	74.99	.4184	.9051	17.84	.6082	2.535
#1	-.7726	110.9	577.2	1.630	22.39	294.1	76.80
#2	19.33	34.04	580.6	1.609	28.85	291.6	79.61

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1737.	1577.	3.183	347.4	59.69	.5932	-43.91
SDev	2.	17.	1.553	9.1	11.27	.0196	90.69
%RSD	.0887	1.079	48.77	2.633	18.89	3.298	206.5
#1	1736.	1565.	2.086	341.0	51.72	.5793	-108.0
#2	1738.	1589.	4.281	353.9	67.66	.6070	20.21

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	229.7	6215.	81570.	10350.	123100.	29410.	3174.
SDev	3.0	31.	262.	35.	200.	113.	9.
%RSD	1.319	.4968	.3208	.3344	.1627	.3844	.2710
#1	227.5	6194.	81390.	10330.	122900.	29330.	3168.
#2	231.8	6237.	81760.	10380.	123200.	29490.	3180.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	7658.	14430.	137.8	37.12	1740.	11580.	.6772
SDev	20.	24.	7.2	9.22	7.	7779.	.1375
%RSD	.2584	.1635	5.208	24.85	.3839	67.16	20.31
#1	7644.	14420.	142.9	43.64	1735.	17080.	.5799
#2	7672.	14450.	132.7	30.60	1744.	6081.	.7744

Elem	Si2881
Units	PPB
Avge	303700.
SDev	659.
%RSD	.2168
#1	304200.
#2	303300.

Analysis Report 10/08/04 01:17:50 PM page 1

Method: 6010B Sample Name: qc267316 Operator: pps
Run Time: 10/08/04 13:15:57
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	126.5	265.9	1130.	11.50	62.38	739.2	172.2
SDev	13.6	59.9	.	.05	.26	4.1	1.5
%RSD	10.73	22.52	.0155	.4176	.4092	.5559	.8920
#1	116.9	223.6	1130.	11.54	62.20	736.3	171.1
#2	136.1	308.3	1130.	11.47	62.56	742.1	173.3

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1404.	2114.	68.26	494.1	170.6	38.10	165.9
SDev	1.	43.	2.50	7.1	57.8	2.12	64.2
%RSD	.0720	2.048	3.655	1.431	33.90	5.558	38.67
#1	1403.	2083.	70.02	499.1	129.7	39.59	120.5
#2	1404.	2144.	66.49	489.1	211.5	36.60	211.3

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	408.2	7704.	129800.	18040.	193500.	46050.	2938.
SDev	.8	1.	101.	7.	448.	17.	2.
%RSD	.2066	.0157	.0776	.0378	.2316	.0364	.0562
#1	407.6	7705.	129800.	18050.	193800.	46040.	2939.
#2	408.8	7703.	129700.	18040.	193200.	46070.	2937.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	12310.	24120.	285.6	219.3	2455.	21740.	1.845
SDev	113.	77.	1.1	2.5	1.	4511.	.071
%RSD	.9139	.3203	.4005	1.134	.0283	20.75	3.868
#1	12230.	24180.	284.8	217.5	2456.	24930.	1.794
#2	12390.	24070.	286.4	221.0	2455.	18550.	1.895

Elem	Si2881
Units	PPB
Avge	287200.
SDev	1762.
%RSD	.6135
#1	288500.
#2	286000.

Analysis Report 10/08/04 01:20:12 PM page 1

Method: 6010B Sample Name: qc267317 Operator: pps
Run Time: 10/08/04 13:18:18
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	136.1	199.6	1049.	10.84	63.42	694.1	162.2
SDev	29.4	22.4	3.	.12	.37	2.9	4.8
%RSD	21.63	11.23	.3262	1.148	.5760	.4230	2.968
#1	156.9	215.4	1046.	10.93	63.16	692.0	158.8
#2	115.2	183.7	1051.	10.75	63.67	696.2	165.6

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1190.	1934.	65.97	452.3	243.3	41.50	188.5
SDev	2.	19.	2.01	4.0	29.9	.32	8.5
%RSD	.1471	.9731	3.041	.8890	12.29	.7637	4.498
#1	1189.	1947.	67.39	449.5	264.4	41.73	194.4
#2	1192.	1920.	64.55	455.2	222.2	41.28	182.5

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	370.3	6266.	111000.	17470.	150000.	39680.	2722.
SDev	3.3	9.	452.	56.	181.	159.	12.
%RSD	.8777	.1508	.4075	.3193	.1205	.4004	.4311
#1	368.0	6259.	110700.	17430.	150100.	39570.	2713.
#2	372.6	6272.	111300.	17510.	149900.	39790.	2730.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10920.	21150.	301.7	198.8	2249.	15540.	1.234
SDev	493.	51.	11.8	10.2	11.	9038.	.172
%RSD	4.511	.2388	3.906	5.149	.4773	58.15	13.95
#1	11270.	21120.	310.0	191.6	2241.	21930.	1.113
#2	10580.	21190.	293.3	206.1	2256.	9152.	1.356

Elem	Si2881
Units	PPB
Avge	301900.
SDev	1949.
%RSD	.6456
#1	303300.
#2	300500.

Analysis Report 10/08/04 01:23:01 PM page 1

Method: 6010B Sample Name: 175141-001 Operator: pps
Run Time: 10/08/04 13:21:08
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	3.718	4.100	62.88	.8209	.7602	281.2	22.99
SDev	10.93	34.85	.91	.0048	.9469	.5	1.12
%RSD	293.9	850.0	1.449	.5872	124.6	.1909	4.890
#1	11.45	28.74	62.24	.8243	1.430	281.6	22.20
#2	-4.008	-20.54	63.53	.8175	.0906	280.8	23.79

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	21.97	22.99	-2.978	130.0	12.65	2.185	3.483
SDev	.04	32.77	3.114	5.0	3.79	1.046	3.364
%RSD	.2023	142.6	104.6	3.832	29.92	47.90	96.58
#1	21.94	46.17	-.7755	133.5	9.976	1.445	5.862
#2	22.01	-.1835	-5.180	126.5	15.33	2.925	1.105

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	244.3	118.1	28230.	21610.	80790.	12820.	827.7
SDev	2.7	3.2	187.	124.	142.	38.	5.4
%RSD	1.086	2.737	.6633	.5719	.1755	.2994	.6540
#1	242.4	120.4	28100.	21520.	80690.	12790.	823.9
#2	246.2	115.8	28360.	21700.	80890.	12840.	831.6

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1896.	434.9	9.544	-4.702	3697.	-13820.	-.1832
SDev	60.	31.4	7.156	2.261	18.	10296.	.0788
%RSD	3.171	7.223	74.98	48.09	.4887	74.48	43.00
#1	1938.	457.1	4.484	-3.103	3684.	-6543.	-.2389
#2	1853.	412.7	14.60	-6.300	3710.	-21100.	-.1275

Elem	Si2881
Units	PPB
Avge	304100.
SDev	268.
%RSD	.0882
#1	303900.
#2	304300.

Method: 6010B Sample Name: 175141-002 Operator: pps
Run Time: 10/08/04 13:23:29
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	3.024	-2.555	74.16	1.105	2.457	172.0	18.10
SDev	29.64	32.204	.34	.006	.495	2.1	1.07
%RSD	980.3	1260.	.4637	.5096	20.15	1.229	5.935
#1	23.99	20.22	74.40	1.109	2.807	173.4	17.34
#2	-17.94	-25.33	73.92	1.101	2.107	170.5	18.86

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	22.14	22.81	-5.042	101.1	-20.09	-.6716	-8.962
SDev	.12	.43	4.857	.9	3.42	.0075	40.597
%RSD	.5299	1.881	96.34	.8850	17.00	1.117	453.0
#1	22.22	23.11	-1.607	100.5	-22.50	-.6663	19.74
#2	22.05	22.50	-8.477	101.7	-17.67	-.6769	-37.67

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	175.1	105.2	20970.	15060.	59010.	9203.	691.8
SDev	1.9	.0	41.	34.	725.	29.	.2
%RSD	1.110	.0058	.1977	.2257	1.229	.3104	.0268
#1	176.4	105.2	21000.	15090.	59530.	9223.	691.9
#2	173.7	105.2	20940.	15040.	58500.	9183.	691.7

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1614.	277.5	14.64	-14.57	2533.	-3295.	-.3275
SDev	115.	5.6	2.88	8.58	7.	9323.	.0601
%RSD	7.157	2.015	19.67	58.89	.2787	283.0	18.36
#1	1695.	281.4	12.61	-8.500	2538.	3298.	-.3700
#2	1532.	273.5	16.68	-20.63	2528.	-9887.	-.2850

Elem	Si2881
Units	PPB
Avge	298200.
SDev	1861.
%RSD	.6239
#1	299500.
#2	296900.

Analysis Report 10/08/04 01:27:44 PM page 1

Method: 6010B Sample Name: 175141-003 Operator: pps
Run Time: 10/08/04 13:25:50
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	12.18	16.95	92.48	1.105	-.6065	214.3	22.76
SDev	29.25	24.89	.38	.271	1.9135	2.5	3.45
%RSD	240.1	146.8	.4121	24.54	315.5	1.157	15.17
#1	-8.502	34.55	92.21	.9133	-1.960	216.1	25.20
#2	32.87	-.6432	92.75	1.297	.7465	212.6	20.32

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	20.65	25.98	3.267	103.7	32.71	2.092	26.34
SDev	2.07	54.91	6.390	3.5	15.57	1.052	47.09
%RSD	10.03	211.3	195.6	3.372	47.61	50.27	178.8
#1	22.11	64.81	7.786	106.2	43.72	1.348	59.64
#2	19.18	-12.85	-1.251	101.2	21.70	2.836	-6.960

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	229.1	92.38	24760.	19540.	77950.	11080.	844.4
SDev	3.6	2.09	20.	4.	638.	11.	2.0
%RSD	1.568	2.265	.0823	.0184	.8188	.0986	.2312
#1	226.6	93.86	24750.	19540.	78400.	11090.	843.0
#2	231.7	90.90	24770.	19540.	77500.	11070.	845.7

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1996.	398.8	-6.671	-14.28	3186.	-3316.	-.1096
SDev	315.	35.6	18.138	.22	.	.	.0485
%RSD	15.77	8.927	271.9	1.509	.0002	.0000	44.24
#1	2218.	424.0	-19.50	-14.12	3186.	-3316.	-.1438
#2	1773.	373.6	6.154	-14.43	3186.	-3316.	-.0753

Elem	Si2881
Units	PPB
Avge	311600.
SDev	2120.
%RSD	.6803
#1	313100.
#2	310100.

Method: 6010B Sample Name: 175141-004 Operator: pps
Run Time: 10/08/04 13:28:12
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-2.509	1.705	69.20	.4129	1.403	177.7	15.79
SDev	7.092	38.50	.22	.3016	.002	3.0	3.34
%RSD	282.7	2258.	.3217	73.04	.1545	1.679	21.16
#1	-7.524	28.93	69.36	.6262	1.405	179.8	18.15
#2	2.506	-25.52	69.04	.1997	1.402	175.6	13.42

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	17.51	5.263	-6.381	99.50	15.46	-.5496	21.13
SDev	.07	26.43	.820	17.52	19.07	.0054	63.35
%RSD	.3841	502.2	12.85	17.61	123.4	.9766	299.8
#1	17.55	-13.43	-5.801	111.9	28.94	-.5534	65.93
#2	17.46	23.95	-6.961	87.12	1.974	-.5459	-23.67

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	180.8	72.63	20090.	15610.	60520.	8966.	628.7
SDev	.6	.13	27.	42.	440.	62.	3.2
%RSD	.3477	.1824	.1332	.2710	.7276	.6880	.5117
#1	180.3	72.72	20110.	15640.	60840.	9010.	630.9
#2	181.2	72.53	20070.	15580.	60210.	8923.	626.4

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1571.	295.0	11.25	-13.84	2547.	6379.	-.4189
SDev	403.	11.4	18.72	3.37	5.	4598.	.0101
%RSD	25.68	3.851	166.4	24.34	.1844	72.08	2.420
#1	1856.	303.0	24.49	-16.22	2550.	9631.	-.4117
#2	1286.	287.0	-1.984	-11.46	2544.	3128.	-.4261

Elem	Si2881
Units	PPB
Avge	298400.
SDev	32.
%RSD	.0108
#1	298400.
#2	298500.

Method: 6010B Sample Name: 175141-005 Operator: pps
Run Time: 10/08/04 13:30:34
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	23.73	42.03	86.23	1.146	.7327	169.7	19.69
SDev	.48	25.43	.84	.016	.9514	1.7	3.50
%RSD	2.009	60.51	.9753	1.412	129.9	.9782	17.80
#1	24.07	60.01	86.82	1.157	.0599	170.9	22.17
#2	23.39	24.05	85.64	1.134	1.405	168.6	17.21

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	23.90	89.17	-5.006	91.01	26.36	2.233	-28.20
SDev	.71	.97	1.498	17.82	6.93	.026	14.06
%RSD	2.970	1.089	29.92	19.58	26.29	1.160	49.86
#1	23.40	89.86	-6.065	103.6	21.46	2.251	-38.14
#2	24.40	88.49	-3.947	78.41	31.27	2.214	-18.25

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	155.0	129.5	19610.	15970.	59000.	8851.	715.4
SDev	2.6	.3	220.	181.	952.	102.	7.6
%RSD	1.661	.2361	1.120	1.133	1.613	1.148	1.061
#1	156.8	129.7	19760.	16090.	59670.	8923.	720.8
#2	153.2	129.3	19450.	15840.	58320.	8779.	710.0

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1956.	281.9	3.750	-12.53	2334.	-9864.	-.3467
SDev	333.	40.8	16.01	.46	26.	4678.	.0872
%RSD	17.03	14.49	427.0	3.649	1.108	47.42	25.16
#1	2191.	310.8	-7.572	-12.20	2353.	-13170.	-.2850
#2	1720.	253.0	15.07	-12.85	2316.	-6556.	-.4083

Elem	Si2881
Units	PPB
Avge	290100.
SDev	5806.
%RSD	2.001
#1	294200.
#2	286000.

Analysis Report 10/08/04 01:34:53 PM page 1

Method: 6010B Sample Name: 175141-006 Operator: pps
Run Time: 10/08/04 13:32:59
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-5.985	-18.46	67.67	.9587	-.2723	212.1	16.82
SDev	18.177	30.94	1.15	.0310	.4755	1.4	6.27
%RSD	303.7	167.6	1.694	3.232	174.6	.6406	37.29
#1	-18.84	-40.33	68.48	.9806	-.6085	213.0	12.38
#2	6.869	3.420	66.86	.9367	.0639	211.1	21.25

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	18.19	4.084	1.437	97.06	31.16	2.502	28.13
SDev	.60	5.617	3.272	7.01	33.02	.032	42.95
%RSD	3.280	137.5	227.7	7.224	106.0	1.277	152.7
#1	17.77	8.056	3.751	92.10	7.806	2.524	-2.241
#2	18.61	.1124	-.8766	102.0	54.51	2.479	58.50

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	199.1	84.55	21770.	15880.	64890.	9714.	656.5
SDev	3.4	1.10	355.	235.	1181.	171.	10.5
%RSD	1.689	1.300	1.631	1.482	1.820	1.759	1.606
#1	201.5	83.77	22030.	16040.	65730.	9835.	663.9
#2	196.7	85.33	21520.	15710.	64060.	9593.	649.0

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1805.	319.8	5.622	-13.34	2986.	-12830.	-.3598
SDev	59.	44.5	7.136	8.54	44.	13461.	.0555
%RSD	3.262	13.91	126.9	63.99	1.468	104.9	15.41
#1	1847.	351.2	.5760	-19.38	3017.	-3316.	-.3990
#2	1764.	288.3	10.67	-7.306	2955.	-22350.	-.3206

Elem	Si2881
Units	PPB
Avge	303200.
SDev	4457.
%RSD	1.470
#1	306400.
#2	300100.

Method: 6010B Sample Name: 04ws1781 Operator: pps
Run Time: 10/08/04 13:35:33
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1911.	1899.	1010.	1915.	1967.	1958.	1962.
SDev	34.	25.	.	1.	14.	7.	3.
%RSD	1.759	1.340	.0152	.0478	.6916	.3773	.1668
#1	1887.	1917.	1010.	1916.	1958.	1953.	1965.
#2	1934.	1881.	1010.	1915.	1977.	1963.	1960.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1958.	1938.	1956.	2003.	1898.	1015.	2037.
SDev	3.	15.	2.	4.	71.	2.	15.
%RSD	.1711	.7854	.0921	.2060	3.753	.2249	.7230
#1	1960.	1927.	1958.	2006.	1949.	1014.	2027.
#2	1955.	1949.	1955.	2000.	1848.	1017.	2047.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1925.	1942.	1035.	1955.	2021.	1943.	1964.
SDev	4.	4.	16.	5.	31.	21.	.
%RSD	.1998	.2058	1.544	.2400	1.542	1.089	.0148
#1	1927.	1939.	1047.	1958.	2043.	1958.	1964.
#2	1922.	1945.	1024.	1952.	1999.	1928.	1964.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	9848.	9613.	1973.	1008.	1878.	-3316.	-1.071
SDev	369.	19.	23.	7.	4.	.	.071
%RSD	3.751	.2000	1.183	.6937	.2285	.0000	6.589
#1	10110.	9599.	1957.	1013.	1881.	-3316.	-1.121
#2	9587.	9626.	1990.	1004.	1875.	-3316.	-1.022

Elem	Si2881
Units	PPB
Avge	198900.
SDev	1252.
%RSD	.6296
#1	198000.
#2	199800.

Analysis Report 10/08/04 01:39:57 PM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 10/08/04 13:37:59
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-20.70	15.98	.5810	1.248	-.0150	1.497	-2.405
SDev	36.66	33.93	.8219	.584	1.9167	.666	1.121
%RSD	177.2	212.3	141.5	46.78	12820.	44.47	46.61
#1	-46.62	-8.010	1.162	1.660	1.340	1.026	-1.613
#2	5.229	39.97	-.0002	.8350	-1.370	1.968	-3.198

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1.005	-69.40	-.4685	3.421	-40.25	.7440	24.29
SDev	1.020	32.96	.7411	3.094	11.71	.0050	54.17
%RSD	101.4	47.50	158.2	90.43	29.10	.6697	223.0
#1	.2841	-46.09	.0555	5.608	-31.96	.7404	-14.02
#2	1.726	-92.70	-.9926	1.233	-48.53	.7475	62.59

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.8406	1.205	16.07	-1.345	25.40	-5.451	1.272
SDev	1.165	1.712	7.25	2.172	2.97	5.140	1.820
%RSD	138.6	142.0	45.14	161.4	11.71	94.28	143.1
#1	.0170	2.416	10.94	-2.881	27.51	-1.817	-.0150
#2	1.664	-.0051	21.19	.1903	23.30	-9.085	2.559

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	322.6	13.87	-4.017	2.688	2.193	-4146.	-1.209
SDev	179.6	14.82	11.577	1.945	.458	3475.	.110
%RSD	55.67	106.9	288.2	72.34	20.87	83.82	9.062
#1	195.6	24.34	-12.20	4.063	1.870	-1689.	-1.286
#2	449.6	3.389	4.169	1.313	2.517	-6603.	-1.131

Elem	Si2881
Units	PPB
Avge	380200.
SDev	653.
%RSD	.1718
#1	379800.
#2	380700.

Method: 6010B Sample Name: 175141-007 Operator: pps
Run Time: 10/08/04 13:40:33
Comment: ~~95280,1~~ 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-8.894	30.28	89.17	.9176	1.075	292.1	26.28
SDev	.079	17.45	.44	.3118	4.199	1.5	3.42
%RSD	.8856	57.64	.4907	33.98	390.5	.5172	13.02
#1	-8.838	42.62	88.86	1.138	-1.894	293.1	28.70
#2	-8.950	17.94	89.47	.6971	4.045	291.0	23.86

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	26.67	61.56	-2.934	152.7	30.31	-1.196	-4.424
SDev	1.32	53.62	4.597	11.7	7.18	2.069	22.988
%RSD	4.945	87.10	156.7	7.630	23.70	173.0	519.7
#1	25.73	99.47	.3161	161.0	35.39	-2.659	-20.68
#2	27.60	23.65	-6.185	144.5	25.23	.2672	11.83

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	266.3	155.8	28990.	20930.	88000.	13560.	937.8
SDev	3.4	1.9	14.	9.	101.	3.	1.5
%RSD	1.273	1.206	.0483	.0431	.1148	.0253	.1609
#1	263.9	157.1	29000.	20940.	88070.	13560.	938.9
#2	268.7	154.4	28980.	20930.	87930.	13560.	936.7

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1521.	465.4	8.359	-12.07	3682.	-8073.	-.0565
SDev	142.	3.6	5.720	2.50	.	6727.	.0144
%RSD	9.340	.7705	68.43	20.72	.0066	83.33	25.52
#1	1622.	462.9	12.40	-10.30	3682.	-3316.	-.0463
#2	1421.	468.0	4.314	-13.84	3682.	-12830.	-.0666

Elem	Si2881
Units	PPB
Avge	296100.
SDev	1843.
%RSD	.6224
#1	297400.
#2	294800.

Method: 6010B Sample Name: 175141-009 Operator: pps
Run Time: 10/08/04 13:43:36
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-3.103	3.770	55.11	.9881	.7437	238.8	17.07
SDev	36.319	55.35	1.29	.0004	.9409	.2	2.05
%RSD	1170.	1468.	2.343	.0380	126.5	.0700	11.98
#1	22.58	-35.37	54.20	.9883	.0784	239.0	15.62
#2	-28.78	42.91	56.03	.9878	1.409	238.7	18.52

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	16.16	-1.261	-3.219	116.7	37.41	-.4900	-38.87
SDev	1.82	31.112	.007	10.1	14.96	.0080	26.33
%RSD	11.26	2468.	.2156	8.650	39.98	1.643	67.72
#1	14.88	-23.26	-3.214	123.9	47.99	-.4843	-20.26
#2	17.45	20.74	-3.224	109.6	26.83	-.4957	-57.49

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	190.6	90.81	23680.	17290.	63240.	11170.	712.8
SDev	4.7	.28	19.	5.	237.	11.	.8
%RSD	2.440	.3133	.0808	.0300	.3752	.0950	.1063
#1	193.9	90.61	23660.	17300.	63410.	11160.	713.4
#2	187.4	91.01	23690.	17290.	63080.	11180.	712.3

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1603.	324.6	-.3935	-8.267	2986.	-11370.	-.2643
SDev	444.	6.4	4.2706	2.024	2.	6869.	.0016
%RSD	27.67	1.976	1085.	24.49	.0529	60.39	.6061
#1	1917.	320.1	-3.413	-9.699	2985.	-16230.	-.2632
#2	1290.	329.2	2.626	-6.836	2987.	-6518.	-.2654

Elem	Si2881
Units	PPB
Avge	290200.
SDev	2233.
%RSD	.7694
#1	291700.
#2	288600.

Method: 6010B Sample Name: 175141-010 Operator: pps
Run Time: 10/08/04 13:46:13
Comment: 95280,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	21.78	63.71	73.02	1.283	1.445	145.3	17.67
SDev	3.81	25.24	.77	.013	.002	1.5	6.83
%RSD	17.49	39.62	1.052	1.038	.1574	1.013	38.64
#1	19.09	81.56	72.48	1.274	1.447	146.3	12.84
#2	24.47	45.86	73.57	1.293	1.444	144.2	22.50

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	15.58	8.129	-3.790	88.45	24.48	1.822	1.745
SDev	.48	22.95	.006	6.13	92.69	.021	20.64
%RSD	3.053	282.4	.1597	6.932	378.7	1.159	1183.
#1	15.24	-8.101	-3.785	84.11	90.02	1.837	-12.85
#2	15.91	24.36	-3.794	92.78	-41.06	1.807	16.34

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	126.6	88.99	21020.	16430.	44130.	9131.	784.6
SDev	4.9	.60	192.	123.	59.	105.	5.7
%RSD	3.867	.6694	.9146	.7474	.1328	1.152	.7207
#1	130.1	89.41	21160.	16520.	44180.	9206.	788.6
#2	123.1	88.57	20890.	16350.	44090.	9057.	780.6

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	2166.	378.4	-1.429	-12.50	2376.	2503.	-.5271
SDev	97.	2.8	23.612	15.63	21.	1181.	.0918
%RSD	4.496	.7281	1652.	125.1	.8933	47.20	17.41
#1	2097.	376.5	15.27	-23.55	2391.	3338.	-.5920
#2	2235.	380.4	-18.13	-1.444	2361.	1667.	-.4622

Elem	Si2881
Units	PPB
Avge	313700.
SDev	550.
%RSD	.1752
#1	314100.
#2	313300.

Method: 6010B Sample Name: 04ws1846 Operator: pps
Run Time: 10/08/04 13:48:47
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k1829.	1976.	466.4	k455.5	933.5	k450.4	441.6
SDev	32.	128.	1.5	1.0	1.2	2.2	1.1
%RSD	1.752	6.458	.3134	.2274	.1277	.4798	.2584
#1	k1852.	2066.	465.4	k454.8	934.4	k448.9	442.4
#2	k1807.	1886.	467.4	k456.2	932.7	k451.9	440.8

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	468.9	k848.2	461.7	k923.0	1889.	k930.9	1909.
SDev	1.4	52.7	1.1	2.5	47.	1.4	11.
%RSD	.2961	6.213	.2348	.2691	2.483	.1542	.5699
#1	467.9	k811.0	462.5	k924.8	1856.	k929.9	1917.
#2	469.9	k885.5	460.9	k921.3	1922.	k931.9	1902.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	k461.0	k955.2	k515400.	S1919000.	173900.	485800.	k447.4
SDev	1.1	4.0	1817.	14230.	947.	1483.	1.3
%RSD	.2463	.4196	.3525	.7415	.5446	.3052	.2831
#1	k461.8	k952.3	k514100.	S1929000.	174500.	484700.	k446.5
#2	k460.2	k958.0	k516600.	S1909000.	173200.	486800.	k448.3

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-292.4	-190.0	-33.48	-10.91	1816.	26600.	9.324
SDev	307.5	94.9	4.59	5.09	2.	56207.	.319
%RSD	105.2	49.97	13.72	46.61	.1298	211.3	3.419
#1	-74.99	-122.8	-36.73	-7.317	1814.	-13140.	9.550
#2	-509.9	-257.1	-30.23	-14.51	1817.	66350.	9.099

Elem	Si2881
Units	PPB
Avge	227800.
SDev	348.
%RSD	.1529
#1	227500.
#2	228000.

Method: 6010B Sample Name: 04ws1781 Operator: pps
Run Time: 10/08/04 13:55:11
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1817.	1874.	978.6	1860.	1926.	1897.	1899.
SDev	48.	42.	3.0	11.	10.	12.	15.
%RSD	2.665	2.218	.3032	.6040	.5212	.6584	.8041
#1	1783.	1903.	976.5	1852.	1919.	1888.	1888.
#2	1851.	1844.	980.7	1868.	1934.	1905.	1910.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1895.	1880.	1899.	1956.	1865.	990.6	1998.
SDev	10.	42.	27.	24.	140.	6.2	30.
%RSD	.5466	2.225	1.443	1.236	7.523	.6268	1.479
#1	1888.	1910.	1880.	1939.	1766.	986.2	1978.
#2	1903.	1851.	1918.	1973.	1964.	995.0	2019.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1866.	1895.	1021.	1925.	1852.	1906.	1902.
SDev	7.	17.	2.	10.	28.	2.	10.
%RSD	.3608	.8791	.1505	.5147	1.503	.1146	.5321
#1	1861.	1884.	1020.	1918.	1832.	1904.	1895.
#2	1870.	1907.	1022.	1932.	1871.	1907.	1910.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	9557.	9453.	1926.	992.8	1812.	-882.7	-1.132
SDev	55.	33.	26.	7.3	11.	3441.4	.031
%RSD	.5770	.3490	1.373	.7370	.5804	389.9	2.768
#1	9518.	9430.	1907.	987.6	1804.	1551.	-1.110
#2	9596.	9477.	1945.	998.0	1819.	-3316.	-1.155

Elem	Si2881
Units	PPB
Avge	198200.
SDev	285.
%RSD	.1440
#1	198000.
#2	198400.

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 10/08/04 13:57:39
Comment: 95280,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.0217	12.78	1.185	1.485	.6801	3.626	-.0038
SDev	7.430	10.64	.003	.289	.9780	1.646	2.2618
%RSD	34190.	83.25	.2378	19.45	143.8	45.39	59470.
#1	-5.232	20.31	1.183	1.689	-.0115	4.790	1.596
#2	5.275	5.257	1.187	1.280	1.372	2.462	-1.603

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1.779	-7.834	-1.501	-1.306	19.05	2.255	41.20
SDev	.013	11.048	.788	6.211	3.88	2.133	17.09
%RSD	.7306	141.0	52.50	475.4	20.38	94.56	41.47
#1	1.769	-.0223	-.9435	3.085	16.30	3.763	53.29
#2	1.788	-15.65	-2.058	-5.698	21.80	.7473	29.12

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	3.349	1.285	18.38	3.472	2.673	9.180	2.158
SDev	2.391	.007	4.39	2.732	1.596	10.38	.604
%RSD	71.38	.5497	23.89	78.71	59.70	113.0	27.97
#1	5.040	1.280	15.27	5.404	3.802	1.842	2.585
#2	1.659	1.290	21.48	1.539	1.545	16.52	1.731

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	183.8	36.01	-5.252	2.730	1.587	-1660.	-1.162
SDev	130.2	9.39	4.456	1.059	.445	2342.	.108
%RSD	70.85	26.09	84.85	38.77	28.05	141.1	9.282
#1	275.9	42.66	-2.101	3.479	1.901	-3.857	-1.086
#2	91.72	29.37	-8.403	1.982	1.272	-3316.	-1.238

Elem	Si2881
Units	PPB
Avge	383900.
SDev	1637.
%RSD	.4266
#1	382700.
#2	385000.

CVAA Raw Data

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44414361 Instrument: MET04 HydraAA HG Analyzer Begun: 13-OCT-2004
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
01	95453	CCV					13-OCT-2004 18:01	1.0	1.0	1	5.000	44414175001	4.830		ug/L	97		
02	95453	CCB					13-OCT-2004 18:03	1.0	1.0			44414175001	ND	0.20	ug/L			
03	95453	BLANK	QC268049		95453	Soil	13-OCT-2004 18:05	1.0	100.0			44414175001	ND	0.020	mg/Kg			u
04	95453	BS	QC268050		95453	Soil	13-OCT-2004 18:07	1.0	100.0		0.5000	44414175001	0.4600	0.020	mg/Kg	92		u
05	95453	BSD	QC268051		95453	Soil	13-OCT-2004 18:10	1.0	100.0		0.5000	44414175001	0.4650	0.020	mg/Kg	93	1	u
06	95453	MSS	175141-001		95453	Soil	13-OCT-2004 18:12	1.0	94.34			44414175001	ND	0.019	mg/Kg			u
07	95453	MS	QC268052	175141-001	95453	Soil	13-OCT-2004 18:16	1.0	94.34		0.4717	44414175001	0.4575	0.019	mg/Kg	96		u
08	95453	MSD	QC268053	175141-001	95453	Soil	13-OCT-2004 18:18	1.0	87.72		0.4386	44414175001	0.4202	0.018	mg/Kg	94	1	u
09	95453	SAMPLE	175141-009		95453	Soil	13-OCT-2004 18:20	1.0	89.29			44414175001	ND	0.018	mg/Kg			u
10	95453	SAMPLE	175175-006		95453	Soil	13-OCT-2004 18:22	1.0	96.15			44414175001	0.20	0.019	mg/Kg			u
11	95453	SAMPLE	175175-007		95453	Soil	13-OCT-2004 18:25	1.0	83.33			44414175001	0.093	0.017	mg/Kg			u
12	95453	CCV					13-OCT-2004 18:27	1.0	1.0	2	2.500	44414175001	2.460		ug/L	98		
13	95453	CCB					13-OCT-2004 18:29	1.0	1.0			44414175001	[0.002000]	0.20	ug/L			
14	95453	SAMPLE	175175-009		95453	Soil	13-OCT-2004 18:31	1.0	86.21			44414175001	0.062	0.017	mg/Kg			u
15	95453	SAMPLE	175190-001		95453	Soil	13-OCT-2004 18:33	1.0	94.34			44414175001	0.53	0.019	mg/Kg			u
16	95453	SAMPLE	175190-002		95453	Soil	13-OCT-2004 18:36	1.0	104.2			44414175001	2.3 >LR	0.021	mg/Kg			! >LR ca
17	95453	SAMPLE	175190-003		95453	Soil	13-OCT-2004 18:37	1.0	94.34			44414175001	0.18	0.019	mg/Kg			u
18	95453	SAMPLE	175190-004		95453	Soil	13-OCT-2004 18:39	1.0	86.21			44414175001	0.60	0.017	mg/Kg			u
19	95453	SAMPLE	175201-001		95453	Soil	13-OCT-2004 18:41	1.0	92.59			44414175001	0.22	0.019	mg/Kg			u
20	95453	SAMPLE	175201-002		95453	Soil	13-OCT-2004 18:43	1.0	104.2			44414175001	0.026	0.021	mg/Kg			u
21	95453	SAMPLE	175231-001		95453	Soil	13-OCT-2004 18:45	1.0	92.59			44414175001	0.041	0.019	mg/Kg			u
22	95453	SAMPLE	175231-002		95453	Soil	13-OCT-2004 18:48	1.0	100.0			44414175001	0.59	0.020	mg/Kg			u
23	95453	SAMPLE	175231-003		95453	Soil	13-OCT-2004 18:50	1.0	89.29			44414175001	0.58	0.018	mg/Kg			u
24	95453	CCV					13-OCT-2004 18:52	1.0	1.0	1	5.000	44414175001	4.950		ug/L	99		
25	95453	CCB					13-OCT-2004 18:54	1.0	1.0			44414175001	ND	0.20	ug/L			
26	95453	SAMPLE	175231-004		95453	Soil	13-OCT-2004 18:56	1.0	90.91			44414175001	0.35	0.018	mg/Kg			u
27	95453	SAMPLE	175190-002		95453	Soil	13-OCT-2004 19:02	20.0	104.2			44414175001	2.5	0.42	mg/Kg			u
28	95453	CCV					13-OCT-2004 19:05	1.0	1.0	3	7.500	44414175001	7.450		ug/L	99		
29	95453	CCB					13-OCT-2004 19:07	1.0	1.0			44414175001	ND	0.20	ug/L			

Stds used: 1=04WS1951 2=04WS1950 3=04WS1952
Flags used: !=calc err >LR=overrange b=noncompliant calc=calculation error u=use

Analyst: _____ Date: 10/13/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

.strument: MET04 HydraAA HG Analyzer Reviewed By: ---
.lnum: 44414175001 Name: Type: SOIL Date: 13-OCT-2004 14:55 Inj Vol (uL): 2000

libration levels:

Filename	Seqnum	Samplenum	Analyzed	Standards
95439	44414175001	Std01Rep1	13-OCT-2004 14:55	
95439	44414175002	Std02Rep1	13-OCT-2004 14:57	04WS1947 (500X)
95439	44414175003	Std03Rep1	13-OCT-2004 14:59	04WS1947 (200X)
95439	44414175004	Std04Rep1	13-OCT-2004 15:01	04WS1947 (50X)
95439	44414175005	Std05Rep1	13-OCT-2004 15:03	04WS1947 (20X)
95439	44414175006	Std06Rep1	13-OCT-2004 15:05	04WS1947 (10X)

													r^2	
nalyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	MnR^2 Flags
ercury		75070	66350	66399	63785	65840	LINR R	0.001348	1.527E-5		ug/L	67489	1.000	.99

207

urves: LINR: Linear regression
nstrument amount = a0 + response * a1 + response^2 * a2

WinHg Database 1.3

e Utility Help

otocol hgppb

Dataset/Proto 101304a /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.52704e-5

C 1.34806e-3

Rho .999861

Type Linear

Calibrated

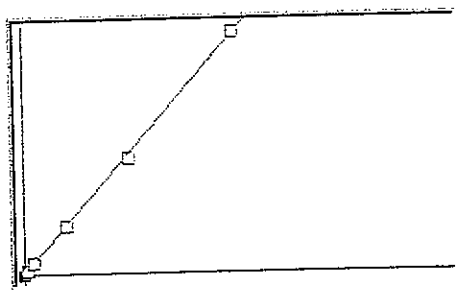
Accepted

Accept

Rel. Abs.
658395

Accepted

New



Conc. 20.0

Include S1 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.006	.006	273	0	272		
02	.20000	.231	.031	15014	0%	15014		
03	.50000	.508	.008	33175	0%	33175		
04	2.0000	2.03	.029	132797	0%	132797		
05	5.0000	4.87	-.129	318927	0%	318926		
06	10.000	10.1	.055	658396	0%	658395		

CAP NUM

Ready

Folder: 101304a
Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 14:55:20 13 Oct 04 HG

Hg .000 ppb 272

*** Standard: 2 Rep: 1 Seq: 2 14:57:15 13 Oct 04 HG

Hg .200 ppb 15014

*** Standard: 3 Rep: 1 Seq: 3 14:59:14 13 Oct 04 HG

Hg .500 ppb 33175

*** Standard: 4 Rep: 1 Seq: 4 15:01:14 13 Oct 04 HG

Hg 2.00 ppb 132797

*** Standard: 5 Rep: 1 Seq: 5 15:03:12 13 Oct 04 HG

Hg 5.00 ppb 318926

*** Standard: 6 Rep: 1 Seq: 6 15:05:27 13 Oct 04 HG

Hg 10.0 ppb 658395

*** Check Standard: 2 Ck2WS1949 Seq: 7 15:10:38 13 Oct 04 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.3	4.97	5.00	ppb	.000 %

*** Check Standard: 1 Ck1ICB Seq: 8 15:12:49 13 Oct 04 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.018	.000	ppb	.000 %

*** Sample ID: QC267991 Seq: 9 15:14:39 13 Oct 04 HG

95439,1

Hg .034 ppb .000 % .034

*** Sample ID: QC267992 Seq: 10 15:16:37 13 Oct 04 HG

95439,1

Hg 4.92 ppb .000 % 4.92

*** Sample ID: QC267993 Seq: 11 15:18:35 13 Oct 04 HG

95439,1

Hg 4.97 ppb .000 % 4.97

Folder: 101304b
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 5  Ck5WS1951    Seq:  1       18:01:40 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.7     4.83    5.00   ppb        .000  %

*** Check Standard: 6  Ck6ccb       Seq:  2       18:03:41 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^  -.012    .000   ppb        .000  %

*** Sample ID: QC268049   95453      Seq:  3      18:05:42 13 Oct 04   HG
                           95453,1
Hg    .021    ppb       .000  %   .021

=============================================================================
*** Sample ID: QC268050   95453      Seq:  4      18:07:42 13 Oct 04   HG
                           95453,1
Hg    4.60    ppb       .000  %   4.60
                                                                          =
=============================================================================
*** Sample ID: QC268051   95453      Seq:  5      18:10:21 13 Oct 04   HG
                           95453,1
Hg    4.65    ppb       .000  %   4.65
                                                                          =
=============================================================================
*** Sample ID: 175141-001 95453      Seq:  6      18:12:24 13 Oct 04   HG
                           95453,1
Hg    .072    ppb       .000  %   .072
                                                                          =
=============================================================================
*** Sample ID: QC268054   95453      Seq:  7      18:14:37 13 Oct 04   HG
                           95453,5
Hg    .005    ppb       .000  %   .005
                                                                          =
=============================================================================
*** Sample ID: QC268052   95453      Seq:  8      18:16:48 13 Oct 04   HG
                           95453,1
Hg    4.85    ppb       .000  %   4.85
                                                                          =
=============================================================================
*** Sample ID: QC268053   95453      Seq:  9      18:18:53 13 Oct 04   HG
                           95453,1
Hg    4.79    ppb       .000  %   4.79
                                                                          =
=============================================================================
*** Sample ID: 175141-009 95453      Seq:  10     18:20:53 13 Oct 04   HG
                           95453,1
Hg    .071    ppb       .000  %   .071
                                                                          =
=============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: 175175-006 95453      Seq:  11     18:22:57 13 Oct 04   HG
                          95453,1
Hg    2.10    ppb       .000  %   2.10
                                                                          =
=============================================================================
*** Sample ID: 175175-007 95453      Seq:  12     18:25:29 13 Oct 04   HG
                          95453,1
Hg    1.12    ppb       .000  %   1.12
                                                                          =
*** Check Standard: 3  Ck3WS1950     Seq:  13     18:27:23 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.5     2.46    2.50  ppb        .000  %
                                                                          =
*** Check Standard: 6  Ck6ccb        Seq:  14     18:29:15 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^   .002    .000  ppb        .000  %
                                                                          =
*** Sample ID: 175175-009 95453      Seq:  15     18:31:46 13 Oct 04   HG
                          95453,1
Hg    .717    ppb       .000  %   .717
                                                                          =
=============================================================================
*** Sample ID: 175190-001 95453      Seq:  16     18:33:47 13 Oct 04   HG
                          95453,1
Hg    5.61    ppb       .000  %   5.61
                                                                          =
=============================================================================
*** Sample ID: 175190-002 95453      Seq:  17     18:36:00 13 Oct 04   HG
                          95453,1
Hg    21.9    ppb       .000  %   21.9
                                                                          =
=============================================================================
*** Sample ID: 175190-003 95453      Seq:  18     18:37:54 13 Oct 04   HG
                          95453,1
Hg    1.95    ppb       .000  %   1.95
                                                                          =
=============================================================================
*** Sample ID: 175190-004 95453      Seq:  19     18:39:45 13 Oct 04   HG
                          95453,1
Hg    6.94    ppb       .000  %   6.94
                                                                          =
=============================================================================
*** Sample ID: 175201-001 95453      Seq:  20     18:41:33 13 Oct 04   HG
                          95453,1
Hg    2.34    ppb       .000  %   2.34
                                                                          =
=============================================================================
```

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: 175201-002 95453      Seq:  21     18:43:32 13 Oct 04   HG
                          95453,1
Hg    .250    ppb       .000  %   .250
                                                                          =
==============================================================================
*** Sample ID: 175231-001 95453      Seq:  22     18:45:51 13 Oct 04   HG
                          95453,1
Hg    .441    ppb       .000  %   .441
                                                                          =
==============================================================================
*** Sample ID: 175231-002 95453      Seq:  23     18:48:36 13 Oct 04   HG
                          95453,1
Hg    5.92    ppb       .000  %   5.92
                                                                          =
==============================================================================
*** Sample ID: 175231-003 95453      Seq:  24     18:50:38 13 Oct 04   HG
                          95453,1
Hg    6.44    ppb       .000  %   6.44
                                                                          =
*** Check Standard: 5  Ck5WS1951    Seq:  25     18:52:37 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.0     4.95    5.00  ppb        .000  %
                                                                          =
*** Check Standard: 6  Ck6ccb       Seq:  26     18:54:40 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^  -.002    .000  ppb        .000  %
                                                                          =
*** Sample ID: 175231-004 95453      Seq:  27     18:56:34 13 Oct 04   HG
                          95453,1
Hg    3.84    ppb       .000  %   3.84
                                                                          =
==============================================================================
*** Sample ID: 175190-002 95453      Seq:  28     19:02:45 13 Oct 04   HG
                          95453,20
Hg    1.20    ppb       .000  %   1.20
                                                                          =
*** Check Standard: 4  Ck4WS1952    Seq:  29     19:05:28 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.3     7.45    7.50  ppb        .000  %
                                                                          =
*** Check Standard: 6  Ck6ccb       Seq:  30     19:07:39 13 Oct 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^  -.013    .000  ppb        .000  %
                                                                          =
```

MOISTURE DATA

Percent Moisture Summary Report

Batch: 95274
Date: 10/08/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175141-002	10.9255	18.8777	18.5163	95	5
175141-003	15.2567	22.2113	22.1431	99	1
175141-004	15.0494	22.5615	22.4550	99	1
175141-005	11.0493	19.0626	18.9082	98	2
175141-006	10.9358	18.7028	18.6223	99	1
175141-007	10.9331	18.3537	18.2635	99	1
175141-010	15.5842	22.7842	22.6887	99	1
QC267285 of 175141-010	10.9937	19.0930	18.9827	99	1
			RPD:	0.0%	2.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95274
Date Started: 07-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175141-002		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-003		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-004		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-005		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-006		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-007		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-010		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
QC267285	SDUP of 175141-010		Soil	MOISTURE	

10/7/04

95274

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	RA	11.0029	—	11.0028	
175141-2	A	RC	10.9255	18.8777	18.5163	
3		9A	15.2567	22.2113	22.1431	
4		103	15.0494	22.5615	22.4550	
5		B10D	11.0493	19.8626	18.9082	
6		VED	10.9358	18.7028	18.6223	
7		2AX	10.9331	18.3537	18.2435	
10		5X	15.5842	22.7842	22.6887	
DUP. 10		BDD	10.9937	19.8938	18.9827	

OVEN TEMP: 104°C
TIME IN: 5:30 P.M.
TIME OUT: 8:25 A.M. ON: 10-8-04

Continued on Page

Read and Understood By

R. Marnell 10-7-04 10/8/04
Signed Date Signed Date

Percent Moisture Summary Report

Batch: 95335
Date: 10/11/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175043-001	11.1875	18.1785	12.9724	26	74
175043-002	10.9942	18.0834	12.7766	25	75
175043-004	11.0707	18.3448	12.1390	15	85
175043-005	11.0521	19.4830	13.6454	31	69
175043-007	11.2430	18.3740	12.8000	22	78
175043-010	15.6101	22.4980	16.4261	12	88
175043-011	11.0427	19.1054	12.1676	14	86
175043-016	15.2570	20.7811	16.2340	18	82
175043-017	10.9328	16.1384	11.8770	18	82
175059-047	15.3163	22.1672	21.8631	96	4
175059-049	10.9900	18.5694	17.7573	89	11
175059-064	15.5723	22.1421	21.2435	86	14
175059-065	11.0035	18.5803	17.5199	86	14
175059-071	11.0500	18.7381	18.0219	91	9
175059-072	15.5826	22.3131	21.5802	89	11
175141-001	11.1350	19.2009	19.1169	99	1
175141-009	11.0717	19.5083	19.4316	99	1
175164-001	11.0658	18.5680	18.1558	95	5
QC267536 of 175043-011	15.7997	22.8207	16.7955	14	86
			RPD:	1.6%	0.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95335
Date Started: 11-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175043-001		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-002		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-004		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-005		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-007		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-010		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-011		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-016		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-017		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175059-047		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-049		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-064		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-065		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-071		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-072		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175141-001		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-009		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175164-001		Blasland, Bouck &	Soil	MOISTURE	14-OCT-2004
QC267536	SDUP of 175043-011		Miscell.	MOISTURE	

10/10/04

95335

Sample		B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	1D	15.7378	—	15.7378	
175059 –	47	A	117L	15.3163	22.1672	21.8631	
	49		2	10.9900	18.5694	17.7573	
	64		9D	15.5723	22.1421	21.2435	
	65		12A	11.0035	18.5603	17.5199	
	71		B11G	11.0500	18.7381	18.0219	
	72		5X	15.5826	22.3131	21.5602	
175043 –	1		DHW	11.1875	18.1785	12.9724	COMP. A-D
	2		B12D	10.9942	18.0834	12.7766	
	4		B10J	11.0707	18.3448	12.1390	COMP. A-D
	5		B10O	11.0521	19.4830	13.6454	
	7		D	11.2430	18.3740	12.8000	
	10		3L	15.6101	22.4980	16.4261	
	11		B10Y	11.0427	19.1054	12.1974	
DMP	11		LOU	15.7997	22.8207	16.7955	
	16		9A	15.2570	20.7811	16.2340	COMP. A-B
	17		2AX	10.9328	16.1364	11.8770	COMP. A-B
175141 –	1		B11G	11.1350	19.2009	19.1169	
	9		B112	11.0717	19.5083	19.4316	
175164 –	1		WDH	11.0658	18.5680	18.1558	

OVEN TEMP: 105°C
TIME IN: 3:00 P.M.
TIME OUT: 9:57 A.M. ON: 10-11-04

Continued on Page

Read and Understood By

D. Manning 10-10-04 10/10/04
Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175141
Polychlorinated Biphenyls (PCBs)
Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
BB4EX100[0.5]	175141-001
DUP100704A	175141-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/16/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PCBS (EPA 8082)

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 10/07/04. The samples were received cold and intact.

PCBs (EPA 8082):
No analytical problems were encountered.

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Dustin Sutherland
Recorder (Signature Required): D Sutherland

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Pesticides	PCBs	VOCs	SVOCs	Hg	Chlor Herbicides	TPH d/f/g	Metals	Silica gel clean-up	Hold	Remarks
-1 BB4Ex100[0.5]	10-7-04	1303		X						X		X	X	X	X	X	X	X	X	X		Analysis from bottom B.
-2 BB4Ex101[0.5]		1323		X						X		X							X			
-3 BB4Ex102[0.5]		1335		X						X		X							X			
-4 BB4Ex103[0.5]		1355		X						X		X							X			
-5 BB4Ex104[0.5]		1244		X						X		X							X			
-6 BB4Ex105[0.5]		1340		X						X		X							X			
-7 BB4Ex106[0.5]		1288		X						X		X							X			
-8 TB100704A		1400			X					X				X								
-9 DUP100704A		1324		X						X	X	X	X	X	X	X	X	X	X	X		DUP100704A
-10 BB4Ex107[0.5]		1352		X						X	X	X							X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
D Sutherland	10-7-04	1410	Tony Rogers	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes:
+ RECEIVED ON ICE

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Soil Cores in Plastic bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4. — Sample Dup100704A on COC, Label Dup10060A4, ID'd by time.

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III		10/8/10/14
(All samples)					to Level IV		
					(8081, PCB		
					8260, 8270		
					HG, T26/ICP		
					TEHM)		

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	10/07/04
Units:	ug/Kg	Received:	10/07/04
Diln Fac:	1.000	Prepared:	10/11/04
Batch#:	95361	Analyzed:	10/12/04

Field ID:	BB4EX100[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	1%
Lab ID:	175141-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.8	7.4
Aroclor-1221	ND	20	12
Aroclor-1232	ND	9.8	3.9
Aroclor-1242	ND	9.8	4.1
Aroclor-1248	ND	9.8	2.8
Aroclor-1254	ND	9.8	2.6
Aroclor-1260	ND	9.8	3.2

Surrogate	%REC	Limits
TCMX	102	65-135
Decachlorobiphenyl	99	65-135

Field ID:	DUP100704A	Basis:	dry
Type:	SAMPLE	Moisture:	1%
Lab ID:	175141-009	Cleanup Method:	EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	7.3
Aroclor-1221	ND	19	12
Aroclor-1232	ND	9.6	3.8
Aroclor-1242	ND	9.6	4.1
Aroclor-1248	ND	9.6	2.7
Aroclor-1254	ND	9.6	2.5
Aroclor-1260	ND	9.6	3.2

Surrogate	%REC	Limits
TCMX	119	65-135
Decachlorobiphenyl	98	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC267655	Cleanup Method:	EPA 3665A

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	7.2
Aroclor-1221	ND	19	12
Aroclor-1232	ND	9.6	3.9
Aroclor-1242	ND	9.6	4.1
Aroclor-1248	ND	9.6	2.7
Aroclor-1254	ND	9.6	2.6
Aroclor-1260	ND	9.6	3.2

Surrogate	%REC	Limits
TCMX	108	65-135
Decachlorobiphenyl	117	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC267656	Batch#:	95361
Matrix:	Soil	Prepared:	10/11/04
Units:	ug/Kg	Analyzed:	10/12/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	168.0	144.1	86	65-135

Surrogate	%REC	Limits
TCMX	103	65-135
Decachlorobiphenyl	104	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB4EX100[0.5]	Batch#:	95361
MSS Lab ID:	175141-001	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/11/04
Basis:	dry	Analyzed:	10/12/04
Diln Fac:	1.000		

Type:	MS	Moisture:	1%
Lab ID:	QC267657	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<2.626	169.0	154.7	91	65-135

Surrogate	%REC	Limits
TCMX	110	65-135
Decachlorobiphenyl	103	65-135

Type:	MSD	Moisture:	1%
Lab ID:	QC267658	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	167.8	143.0	85	65-135	7	35

Surrogate	%REC	Limits
TCMX	115	65-135
Decachlorobiphenyl	101	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204405784001 Name: Type: (normal) Date: 07-OCT-2004 19:04 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	281_002	204405784002	pcb10_2	07-OCT-2004 19:04	04WS1786
2	281_003	204405784003	pcb25_5	07-OCT-2004 19:38	04WS1787
3	281_004	204405784004	pcb100_20	07-OCT-2004 20:11	04WS1788
4	281_005	204405784005	pcb250_50	07-OCT-2004 20:44	04WS1789
5	281_006	204405784006	pcb500_100	07-OCT-2004 21:17	04WS1790
6	281_007	204405784007	pcb750_150	07-OCT-2004 21:51	04WS1791
7	281_008	204405784008	cb1k_200	07-OCT-2004 22:24	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	311.11	354.41	346.54	302.16	307.42	348.48	313.20	AVRG	R		0.003066		pg	326.19	7	.99	20	
Aroclor-1016 Peak # 2	A	554.64	760.07	617.03	507.42	509.91	574.22	512.52	AVRG	R		0.001734		pg	576.55	16	.99	20	
Aroclor-1016 Peak # 3	A	227.75	288.59	286.60	244.90	262.80	308.16	281.45	AVRG	R		0.003684		pg	271.47	10	.99	20	
Aroclor-1016 Peak # 4	A	183.05	220.65	211.75	179.31	189.99	222.26	200.96	AVRG	R		0.004972		pg	201.14	9	.99	20	
Aroclor-1016 Peak # 5	A	262.20	366.67	359.86	289.89	308.71	354.74	322.15	AVRG	R		0.003092		pg	323.46	12	.99	20	
Aroclor-1260 Peak # 1	A	371.60	599.87	621.90	485.34	511.67	584.99	526.98	AVRG	R		0.001891		pg	528.91	16	.99	20	
Aroclor-1260 Peak # 2	A	242.90	374.20	363.14	288.37	319.68	395.32	361.39	AVRG	R		0.002985		pg	335.00	16	.99	20	
Aroclor-1260 Peak # 3	A	445.25	561.46	564.02	450.70	484.43	565.58	506.25	AVRG	R		0.001957		pg	511.10	10	.99	20	
Aroclor-1260 Peak # 4	A	320.16	461.82	504.43	382.52	421.40	509.04	464.74	AVRG	R		0.002285		pg	437.73	16	.99	20	
Aroclor-1260 Peak # 5	A	1022.3	1265.5	1275.4	976.78	1055.0	1239.3	1110.1	AVRG	R		8.811E-4		pg	1134.9	11	.99	20	
TCMX	A	13417	15775	14205	12268	12428	14123	12718	AVRG	R		7.373E-5		pg	13562	9	.99	20	
Decachlorobiphenyl	A	8267.7	11208	11009	8100.3	8436.1	9579.9	8583.0	AVRG	R		1.074E-4		pg	9311.9	14	.99	20	
Aroclor-1016 Peak # 1	B	586.08	508.81	445.02	368.57	371.63	430.84	365.51	AVRG	R		0.002275		pg	439.49	19	.99	20	
Aroclor-1016 Peak # 2	B	565.33	609.52	572.33	454.08	459.85	511.60	455.91	AVRG	R		0.001929		pg	518.37	12	.99	20	
Aroclor-1016 Peak # 3	B	1537.6	1720.6	1634.6	1280.0	1346.3	1514.5	1360.6	AVRG	R		6.735E-4		pg	1484.9	11	.99	20	
Aroclor-1016 Peak # 4	B	608.66	704.40	659.11	536.00	579.88	651.78	587.34	AVRG	R		0.001618		pg	618.16	9	.99	20	
Aroclor-1016 Peak # 5	B	498.31	550.13	522.04	411.80	446.09	515.53	464.63	AVRG	R		0.002054		pg	486.93	10	.99	20	
Aroclor-1260 Peak # 1	B	638.91	984.57	972.08	741.30	764.63	871.24	788.75	AVRG	R		0.001215		pg	823.07	15	.99	20	
Aroclor-1260 Peak # 2	B	1001.8	1222.4	1113.3	811.29	832.34	947.00	848.59	AVRG	R		0.001033		pg	968.10	16	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204405784001 Name: Type: (normal) Date: 07-OCT-2004 19:04 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	837.24	851.90	712.29	531.63	553.57	640.54	575.15	AVRG	R		0.001489		pg	671.76	20	.99	20	
Aroclor-1260 Peak # 4	B	580.29	706.31	693.58	516.82	555.01	656.52	595.81	AVRG	R		0.001626		pg	614.91	12	.99	20	
Aroclor-1260 Peak # 5	B	1458.0	1924.1	1717.9	1236.9	1299.9	1552.2	1392.1	AVRG	R		6.616E-4		pg	1511.6	16	.99	20	
TCMX	B	21737	23270	21073	17780	17619	19704	17289	AVRG	R		5.055E-5		pg	19782	12	.99	20	
Decachlorobiphenyl	B	13893	17090	15379	10995	11002	12189	10896	AVRG	R		7.655E-5		pg	13064	19	.99	20	

12

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Calname :
Calnum : 204405784001 Caldate : 07-OCT-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	204405784011	08-OCT-2004	250.00	261.83	pg	5	15
Aroclor-1260	A	204405784011	08-OCT-2004	250.00	264.99	pg	6	15
TCMX	A	204405784011	08-OCT-2004	50.000	46.811	pg	-6	15
Decachlorobiphenyl	A	204405784011	08-OCT-2004	50.000	47.528	pg	-5	15
Aroclor-1016	B	204405784011	08-OCT-2004	250.00	249.92	pg	0	15
Aroclor-1260	B	204405784011	08-OCT-2004	250.00	247.46	pg	-1	15
TCMX	B	204405784011	08-OCT-2004	50.000	45.438	pg	-9	15
Decachlorobiphenyl	B	204405784011	08-OCT-2004	50.000	43.819	pg	-12	15

INITIAL CALIBRATION REPORT FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204409828001 Name: Type: (normal) Date: 10-OCT-2004 20:19 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	284_005	204409828005	ar1254	10-OCT-2004 20:19	04WS1907

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	510.72	AVRG	R		0.001958		pg	510.72	0	.99	20	
Aroclor-1254 Peak # 2	A	540.97	AVRG	R		0.001849		pg	540.97	0	.99	20	
Aroclor-1254 Peak # 3	A	943.81	AVRG	R		0.001060		pg	943.81	0	.99	20	
Aroclor-1254 Peak # 4	A	689.61	AVRG	R		0.001450		pg	689.61	0	.99	20	
Aroclor-1254 Peak # 5	A	946.49	AVRG	R		0.001057		pg	946.49	0	.99	20	
Aroclor-1254 Peak # 1	B	793.08	AVRG	R		0.001261		pg	793.08	0	.99	20	
Aroclor-1254 Peak # 2	B	1128.8	AVRG	R		8.859E-4		pg	1128.8	0	.99	20	
Aroclor-1254 Peak # 3	B	720.17	AVRG	R		0.001389		pg	720.17	0	.99	20	
Aroclor-1254 Peak # 4	B	212.51	AVRG	R		0.004706		pg	212.51	0	.99	20	
Aroclor-1254 Peak # 5	B	1179.3	AVRG	R		8.480E-4		pg	1179.3	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb250_50 IDF : 1.0
Seqnum : 204411491007 Filename : 285_007 Injected : 11-OCT-2004 21:40
Calnum : 204405784001 Caldate : 07-OCT-2004 Caltype :
Standards: 04WS1854

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	268.5854	pg	7	15	
Aroclor-1260	A			250.0000	287.2605	pg	15	15	
TCMX	A	13562	13849	50.00000	51.05635	pg	2	15	
Decachlorobiphenyl	A	9311.9	11576	50.00000	62.15515	pg	**24**	15	c+
Aroclor-1016	B			250.0000	246.0731	pg	-2	15	
Aroclor-1260	B			250.0000	251.9184	pg	1	15	
TCMX	B	19782	19327	50.00000	48.85112	pg	-2	15	
Decachlorobiphenyl	B	13064	13726	50.00000	52.53495	pg	5	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instid	: GC06	Run Name	: ar1254	IDF	: 1.0
Seqnum	: 204411491009	Filename	: 285_009	Injected	: 11-OCT-2004 22:47
Calnum	: 204409828001	Caldate	: 10-OCT-2004	Caltype	:
Standards:	04WS1907				

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	217.5121	pg	-13	15	
Aroclor-1254	B			250.0000	223.0040	pg	-11	15	

CONTINUING CALIBRATION REPORT FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : pcb500_100 IDF : 1.0
Seqnum : 204411491023 Filename : 285_023 Injected : 12-OCT-2004 06:32
Calnum : 204405784001 Caldate : 07-OCT-2004 Caltype :
Standards: 04WS1855

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	532.8908	pg	7	15	
Aroclor-1260	A			500.0000	575.3477	pg	15	15	
TCMX	A	13562	13625	100.0000	100.4641	pg	0	15	
Decachlorobiphenyl	A	9311.9	10382	100.0000	111.4922	pg	11	15	
Aroclor-1016	B			500.0000	499.6040	pg	0	15	
Aroclor-1260	B			500.0000	516.5857	pg	3	15	
TCMX	B	19782	18992	100.0000	96.00653	pg	-4	15	
Decachlorobiphenyl	B	13064	12473	100.0000	95.48022	pg	-5	15	

CONTINUING CALIBRATION REPORT FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Run Name : ar1254 IDF : 1.0
Seqnum : 204411491025 Filename : 285_025 Injected : 12-OCT-2004 07:38
Calnum : 204409828001 Caldate : 10-OCT-2004 Caltype :
Standards: 04WS1907

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	241.1174	pg	-4	15	
Aroclor-1254	B			250.0000	251.7456	pg	1	15	

SEQUENCE SUMMARY FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204405784 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 07-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	281_002	ICAL	pcb10_2			07-OCT-2004 19:04	1.0	1.0				1	
003	281_003	ICAL	pcb25_5			07-OCT-2004 19:38	1.0	1.0				2	
004	281_004	ICAL	pcb100_20			07-OCT-2004 20:11	1.0	1.0				3	
005	281_005	ICAL	pcb250_50			07-OCT-2004 20:44	1.0	1.0				4	
006	281_006	ICAL	pcb500_100			07-OCT-2004 21:17	1.0	1.0				5	
007	281_007	ICAL	pcb750_150			07-OCT-2004 21:51	1.0	1.0				6	
008	281_008	ICAL	cb1k_200			07-OCT-2004 22:24	1.0	1.0				7	
010	281_010	X	hex			07-OCT-2004 23:30	1.0						
011	281_011	ICV	accu_1660			08-OCT-2004 00:03	1.0	1.0			1	8	
012	281_012	X	icv			08-OCT-2004 00:37	1.0					8	
013	281_013	CCV	ar1254			08-OCT-2004 01:10	1.0	1.0			1	9	
014	281_014	X	ccv			08-OCT-2004 01:43	1.0					9	
026	281_026	X	hex			08-OCT-2004 07:49	1.0						
027	281_027	X	ccv			08-OCT-2004 08:22	1.0					10	
028	281_028	CCV	pcb500_100			08-OCT-2004 08:56	1.0	1.0			1	10	
029	281_029	X	ccv			08-OCT-2004 09:29	1.0					9	
030	281_030	CCV	ar1254			08-OCT-2004 10:02	1.0	1.0			1	9	
032	281_032	SAMPLE	175065-003	95249	Soil	08-OCT-2004 11:08	1.0	0.6693			1		
033	281_033	SAMPLE	175059-055	95155	Soil	08-OCT-2004 11:41	1.0	0.4969		3	1		
034	281_034	SAMPLE	174965-025	95155	Soil	08-OCT-2004 12:15	1.0	0.5012	1	3	1		2:PCB126=1882.32
036	281_036	X	ccv			08-OCT-2004 14:04	1.0					11	
037	281_037	CCV	pcb250_50			08-OCT-2004 14:38	1.0	1.0			1	11	
038	281_038	CCV	ar1254			08-OCT-2004 15:11	1.0	1.0			1	9	
039	281_039	X	ccv			08-OCT-2004 15:44	1.0					9	

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS1907 10=04WS1855 11=04W

SEQUENCE SUMMARY FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204409828 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 10-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	284_002	X	ccv			10-OCT-2004 14:28	1.0					1	
003	284_003	X	ccv			10-OCT-2004 15:01	1.0					1	
004	284_004	CCV	pcb250_50			10-OCT-2004 15:35	1.0	1.0	1		1	1	
005	284_005	CCV	ar1254 ICAL			10-OCT-2004 20:19	1.0	1.0			1	2	
006	284_006	X	ccv	mcw10/14/04		10-OCT-2004 20:52	1.0					2	
008	284_008	BLANK	QC267489	95321	Soil	10-OCT-2004 21:59	1.0	0.8364			1		
009	284_009	LCS	QC267490	95321	Soil	10-OCT-2004 22:32	1.0	0.8213			1		
010	284_010	MS	QC267491	95321	Soil	10-OCT-2004 23:05	1.0	0.8331			1		
011	284_011	MSD	QC267492	95321	Soil	10-OCT-2004 23:38	1.0	0.8224			1		
012	284_012	MSS	174988-017	95321	Soil	11-OCT-2004 00:12	1.0	0.8275	1	2	1		
013	284_013	SAMPLE	174988-018	95321	Soil	11-OCT-2004 00:45	1.0	0.8356			1		
014	284_014	SAMPLE	174988-019	95321	Soil	11-OCT-2004 01:18	1.0	0.8435			1		
015	284_015	SAMPLE	174988-020	95321	Soil	11-OCT-2004 01:51	1.0	0.835	1		1		
016	284_016	SAMPLE	174988-021	95321	Soil	11-OCT-2004 02:24	1.0	0.8267			1		
017	284_017	SAMPLE	174988-022	95321	Soil	11-OCT-2004 02:58	1.0	0.8297	1		1		
019	284_019	X	ccv			11-OCT-2004 04:04	1.0					3	
020	284_020	CCV	pcb500_100			11-OCT-2004 04:37	1.0	1.0	1		1	3	
021	284_021	X	ccv			11-OCT-2004 05:11	1.0					4	
022	284_022	CCV	ar1254			11-OCT-2004 05:44	1.0	1.0	1		1	2	
023	284_023	X	ccv			11-OCT-2004 06:17	1.0					2	
026	284_026	SAMPLE	174988-024	95321	Soil	11-OCT-2004 07:57	1.0	0.8322	2	1	1		
030	284_030	X	ccv			11-OCT-2004 10:09	1.0					1	
031	284_031	CCV	pcb250_50			11-OCT-2004 10:43	1.0	1.0	3		1	1	
032	284_032	CCV	ar1254			11-OCT-2004 11:16	1.0					2	
033	284_033	X	ccv			11-OCT-2004 11:49	1.0					2	

Stds used: 1=04WS1854 2=04WS1907 3=04WS1855 4=04WS1788

SEQUENCE SUMMARY FOR 175141 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204411491 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 11-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	285_001	X	primer			11-OCT-2004 18:11	1.0				
002	285_002	X	primer			11-OCT-2004 18:44	1.0				
006	285_006	X	ccv			11-OCT-2004 21:07	1.0			1	
007	285_007	CCV	pcb250_50			11-OCT-2004 21:40	1.0	1.0	1	1	
008	285_008	X	ccv			11-OCT-2004 22:14	1.0			1	
009	285_009	CCV	ar1254			11-OCT-2004 22:47	1.0	1.0	1	2	
010	285_010	X	ccv			11-OCT-2004 23:20	1.0			2	
012	285_012	BLANK	QC267655	95361	Soil	12-OCT-2004 00:27	1.0	0.6693	1		
013	285_013	LCS	QC267656	95361	Soil	12-OCT-2004 01:00	1.0	0.672	1		
014	285_014	SAMPLE	175148-001	95361	Soil	12-OCT-2004 01:33	1.0	0.6649	1		
015	285_015	SAMPLE	175148-002	95361	Soil	12-OCT-2004 02:06	1.0	0.6653	1		
016	285_016	SAMPLE	175135-049	95361	Soil	12-OCT-2004 02:39	1.0	0.6743	1		
017	285_017	SAMPLE	175135-052	95361	Soil	12-OCT-2004 03:13	1.0	0.672	1		
018	285_018	SAMPLE	175141-009	95361	Soil	12-OCT-2004 03:46	1.0	0.6627	1		
019	285_019	MSS	175141-001	95361	Soil	12-OCT-2004 04:19	1.0	0.6729	1		
020	285_020	MS	QC267657	95361	Soil	12-OCT-2004 04:52	1.0	0.6693	1		
021	285_021	MSD	QC267658	95361	Soil	12-OCT-2004 05:26	1.0	0.6645	1		
023	285_023	CCV	pcb500_100			12-OCT-2004 06:32	1.0	1.0	1	3	
024	285_024	X	ccv			12-OCT-2004 07:05	1.0			3	
025	285_025	CCV	ar1254			12-OCT-2004 07:38	1.0	1.0	1	2	
026	285_026	X	ccv			12-OCT-2004 08:12	1.0			2	
028	285_028	SAMPLE	175149-001	95361	Soil	12-OCT-2004 09:18	1.0	0.6711	1		
029	285_029	SAMPLE	175150-001	95361	Soil	12-OCT-2004 09:51	1.0	0.6667	1		

Stds used: 1=04WS1854 2=04WS1907 3=04WS1855

Reporting Summary for 175141 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175141-001	Aroclor-1016	GC06	B	10/12/04 04:19
175141-001	Aroclor-1221	GC06	B	10/12/04 04:19
175141-001	Aroclor-1232	GC06	B	10/12/04 04:19
175141-001	Aroclor-1242	GC06	B	10/12/04 04:19
175141-001	Aroclor-1248	GC06	B	10/12/04 04:19
175141-001	Aroclor-1254	GC06	B	10/12/04 04:19
175141-001	Aroclor-1260	GC06	B	10/12/04 04:19
175141-001	TCMX	GC06	B	10/12/04 04:19
175141-001	Decachlorobiphenyl	GC06	B	10/12/04 04:19
175141-009	Aroclor-1016	GC06	B	10/12/04 03:46
175141-009	Aroclor-1221	GC06	B	10/12/04 03:46
175141-009	Aroclor-1232	GC06	B	10/12/04 03:46
175141-009	Aroclor-1242	GC06	B	10/12/04 03:46
175141-009	Aroclor-1248	GC06	B	10/12/04 03:46
175141-009	Aroclor-1254	GC06	B	10/12/04 03:46
175141-009	Aroclor-1260	GC06	B	10/12/04 03:46
175141-009	TCMX	GC06	B	10/12/04 03:46
175141-009	Decachlorobiphenyl	GC06	B	10/12/04 03:46
QC267655	Aroclor-1016	GC06	B	10/12/04 00:27
QC267655	Aroclor-1221	GC06	B	10/12/04 00:27
QC267655	Aroclor-1232	GC06	B	10/12/04 00:27
QC267655	Aroclor-1242	GC06	B	10/12/04 00:27
QC267655	Aroclor-1248	GC06	B	10/12/04 00:27
QC267655	Aroclor-1254	GC06	B	10/12/04 00:27
QC267655	Aroclor-1260	GC06	B	10/12/04 00:27
QC267655	TCMX	GC06	B	10/12/04 00:27
QC267655	Decachlorobiphenyl	GC06	B	10/12/04 00:27
QC267656	Aroclor-1254	GC06	B	10/12/04 01:00
QC267656	TCMX	GC06	B	10/12/04 01:00
QC267656	Decachlorobiphenyl	GC06	B	10/12/04 01:00
QC267657	Aroclor-1254	GC06	B	10/12/04 04:52
QC267657	TCMX	GC06	B	10/12/04 04:52
QC267657	Decachlorobiphenyl	GC06	B	10/12/04 04:52
QC267658	Aroclor-1254	GC06	B	10/12/04 05:26
QC267658	TCMX	GC06	B	10/12/04 05:26
QC267658	Decachlorobiphenyl	GC06	B	10/12/04 05:26

Curtis & Tompkins Laboratories Sample Preparation Summary 11-OCT-2004 17:07

Batch Number : 95361
Date Extracted: 11-OCT-2004
Extracted by : Amy Silverberg
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343C
Spike #2 ID : 04WS1711A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175135-049			Northgate Environmental Manage	Soil	14.83	g	10	0.674309	1		.025	0		PCB	3665A	
175135-052			Northgate Environmental Manage	Soil	14.88	g	10	0.672043	1		.025	0		PCB	3665A	
175141-001			Treadwell & Rollo	Soil	14.86	g	10	0.672948	1		.025	0		PCB	3665A	MSS
175141-009			Treadwell & Rollo	Soil	15.09	g	10	0.662691	1		.025	0		PCB	3665A	
175148-001			URS Corporation	Soil	15.04	g	10	0.664894	1		.025	0		PCB	3665A	
175148-002			URS Corporation	Soil	15.03	g	10	0.665336	1		.025	0		PCB	3665A	
175149-001			URS Corporation	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	
175150-001			URS Corporation	Soil	15	g	10	0.666667	1		.025	0		PCB	3665A	
QC267655	MB			Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	
QC267656	LCS			Soil	14.88	g	10	0.672043	1		.025	.025		PCB	3665A	
QC267657	MS	of 175141-001		Soil	14.94	g	10	0.669344	1		.025	.025		PCB	3665A	
QC267658	MSD	of 175141-001		Soil	15.05	g	10	0.664452	1		.025	.025		PCB	3665A	

Prep Chemist: JRD for AMS 10/11/04 Reviewed By: BS Date: 10/11/04

Relinquished By: RO 10/11/04 Received By: [illegible] Date: 10/12/04

Curtis & Tompkins, Ltd.

PCB 8082 SOIL PREP LOG

LIMS Batch No: 95361
LIMS Analysis PCB
Extracted by: AMS
Date Extracted: 10/11/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☑ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

	Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
1	175135-049	~~15.15~~ 14.83	10.0	
	-052	~~15.24~~ 14.88	↓	
	175141-001	~~15.17~~ 14.86	↓	MSS
	-009	~~15.16~~ 15.09	↓	
	175148-001	~~15.25~~ 15.04	10.0	
5	-002	~~15.07~~ 15.03	↓	
	175149-001	~~15.06~~ 14.90	↓	
	175150-001	15.00	↓	
	MB QC267655	14.94	10.0	
10	LCS 56	14.88	↓	
	MS 57	14.94	↓	
	MSD 58	15.05	↓	
15				
				RB 10/11/04
20				

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	F030132	AMS 10/11/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 040112	↓
0.025 mL of surrogate solution was added to all samples	04WS1343C	↓
0.025 mL of spike solution 1254 was added to all spikes	04WS1711A	↓
1:1 CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44211) was added to all	✓	↓
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	↓
ASE Cellulose Filters used:	Whatman D28	↓
PFE (ASE) / soxhlets on at:	N/A	↓
PFE (ASE) / soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	↓	RB 10/11/04
Concentrated to volumes noted above after exchange to Hexane Lot#	B+J CL917	↓
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTB x 26046	↓
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	↓

Continued from page 24
Continued on page 1

Extraction Chemist / Date: 10/11/04

Reviewed by / Date: RB 10/11/04

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175135-049A	15.15	8081	
-052	15.24	↓	
175135-049	14.83	DCB	
-052	14.88	↓	
175135-003		8270-SIM	COMP 1A + 2A
-006A			
-007A			
-009A			
-014			COMP 11A + 13A
-015A			
-017A			
-112A			
-115A			
-118A			
-121A			
-122A			
-130			COMP 128A + 129A
-142			COMP 136A, 139A, 141A
-143A			
-144A			
-810			COMP 106A + 109A

Continued on Page

Read and Understood By

Michelle Curtis 10/8/04

Signed Date Signed Date

PROJECT SOIL ALIQUOT

Notebook No. 2015

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175141-001A	15.17	8081	
-002	15.21		
-003	14.98		
-004	15.13		
-005	15.09		
-006	14.79		
-007	15.15		
-008	15.16		
-010	14.88		
175144-001A	50.05	TEHM	
-002A	50.29		
175143-001A	50.16	TEHM	
175141-001A	14.86	PCB	
-009A	15.09		
175141-001A	MC 10/7 ~~29.88~~ 30.48	8270	
-009A	29.88		
175141-001A	50.15	TEHM	
-009A	49.97		

Continued on Page

Read and Understood By

Michelle Cantu 10/7/04

Signed Date

Signed Date

PROJECT Soil Aliquot

Notebook No. 2015

Continued From Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175075-001A	30.20	8100	gpc, also 174989-001A
-002A	29.98		-002A
-003A	30.03		-003A
CCS	30.01		
MB	30.11		
175148-001	15.04	PCB	4, COMP A-D
-002	15.03		
175148-001	50.37	TEHM	
-002	49.94		
175148-001	15.25	8081	
-002	15.07		
175148-001	29.84	8270	
-002	30.42		
175139-001	50.32	TEH	4, COMP A-D
175138-001	50.29	TEH	
-002	49.92		
-003	50.08		
-004	49.93		
-005	49.83		
175149-001	50.09	TEHM	4, COMP A-D
175150-001	50.09		
175149-001	15.06	8081	
175150-001	14.90		
175149-001	14.90	PCB	
175150-001	15.00		
175149-001	29.74	8100	
175150-001	30.40		

Continued on Page

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Michelle Cuts — Signed

10/8/04 — Date

Signed

Date

Sample ID	Weight (g)	Analysis	Comments
175175-006A	50.39	TEHM	
-007A	49.82		
-009A	49.78		
MC 10/11 175141 — MSS MC 10/11	14.97	PCB	175141-001A
MSD	15.05		175141-001A
LCS	14.88		F030132
MB	14.94		
175116-001A	14.93	8081	
-002	14.99		
-005	14.79		
-006	14.80		
-015	15.01		
-016	14.90		
-019	15.04		
-020	14.99		
174988-016A	30.06	8270	
175130-001	29.96	8270	
-002	29.97		
-003	MC 10/11 ~~29.97~~ 30.14		
-004	30.00		
-005	30.00		MSS
-006	29.95		
-007	29.75		
-008	30.36		
-009	29.91		
-010	30.14		175130-006A
MS	30.11		
MSD	29.84		F030132
LCS	30.09		
MB	29.91		

Continued on Page

Read and Understood By

Michelle Clark 10/11/04

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14 A	GC14 B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0					04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	11/02/04 4.4	11/02/04 3.7			08/02/03 2.3	08/02/03 2.0	10/30/04 4.0	10/30/04 2.9
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9					04/07/04 2.2	04/07/04 2.5

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC06	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 204411491019	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 285_019	Batchnum	: 95361	Injected	: 12-OCT-2004 04:19
IDF	: 1.0			Units	: ug/Kg

Prep: 14.86 g --> 10.0 ml = 0.6729 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=285_012	Flags
Aroclor-1016	B	204405784001	ND			9.7		
Aroclor-1016 Peak # 1	B	204405784001	ND	ND				
Aroclor-1016 Peak # 2	B	204405784001	ND	6.52				
Aroclor-1016 Peak # 3	B	204405784001	ND	ND				
Aroclor-1016 Peak # 4.....	B	204405784001	2.22	ND				
Aroclor-1016 Peak # 5.....	B	204405784001	1.81	1.78	2%			
Aroclor-1221	B		ND			19		
Aroclor-1232	B		ND			9.7		
Aroclor-1242	B		ND			9.7		
Aroclor-1248	B		ND			9.7		
Aroclor-1254	B	204409828001	ND			9.7		?v
Aroclor-1254 Peak # 1.....	B	204409828001	1.15	2.14	60%			
Aroclor-1254 Peak # 2.....	B	204409828001	3.31	2.50	28%			
Aroclor-1254 Peak # 3.....	B	204409828001	1.38	ND				
Aroclor-1254 Peak # 4	B	204409828001	ND	7.47				
Aroclor-1254 Peak # 5	B	204409828001	ND	4.06				
Aroclor-1260	B	204405784001	21	0.80	185%	9.7		x
Aroclor-1260 Peak # 1	B	204405784001	ND	ND				
Aroclor-1260 Peak # 2.....	B	204405784001	14.36	ND				
Aroclor-1260 Peak # 3.....	B	204405784001	88.84	1.49	193%			
Aroclor-1260 Peak # 4	B	204405784001	ND	1.50				
Aroclor-1260 Peak # 5	B	204405784001	ND	1.00				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	204405784001	33.65	34.28	102	65-135	
Decachlorobiphenyl	B	204405784001	33.65	33.22	99	65-135	

?=missing v=ICV out x=false positive

Analyst: [signature] Date: 10/12/04 Reviewer: [signature] Date: 10/14/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-001,95361,mss
Instrument Name : gc06
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 10/12/04 10:00:49 AM
Data Acquisition Time : 10/12/04 4:19:37 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHb\285b019.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1007765.94	50.94	0.6729	1	34.28	6.86
Aroclor-1016	9.179	3348.50	0.94	0.6729	1	0.64	0.13
Aroclor-1254	11.984	8378.24	0.01	0.6729	1	0.01	0.00
Aroclor-1260	14.088	109339.81	23.82	0.6729	1	16.03	3.21
Decachlorobiphenyl	20.187	644844.23	49.36	0.6729	1	33.22	6.64
		1773676.73	125.08			84.17	16.83

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.857	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#2	8.315	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#3	8.967	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#4	9.179	2036.35	3.29	0.6729	1	2.22	0.44
PCB1016#5	10.667	1312.15	2.69	0.6729	1	1.81	0.36
		3348.50	5.99			4.03	0.81

PA 10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#2	14.088	20653.52	21.33	0.6729	1	14.36	2.87
PCB1260#3	15.191	88686.29	132.02	0.6729	1	88.84	17.77
PCB1260#4	15.743	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#5	16.402	0.00	0.00	0.6729	1	0.00	0.00
		109339.81	153.35			103.20	20.64

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.419	1349.48	1.70	0.6729	1	1.15	0.23
PCB1254#2	11.984	5555.58	4.92	0.6729	1	3.31	0.66
PCB1254#3	12.667	1473.19	2.05	0.6729	1	1.38	0.28
PCB1254#4	14.405	0.00	0.00	0.6729	1	0.00	0.00
PCB1254#5	14.773	0.00	0.00	0.6729	1	0.00	0.00
		8378.24	8.67			5.83	1.17

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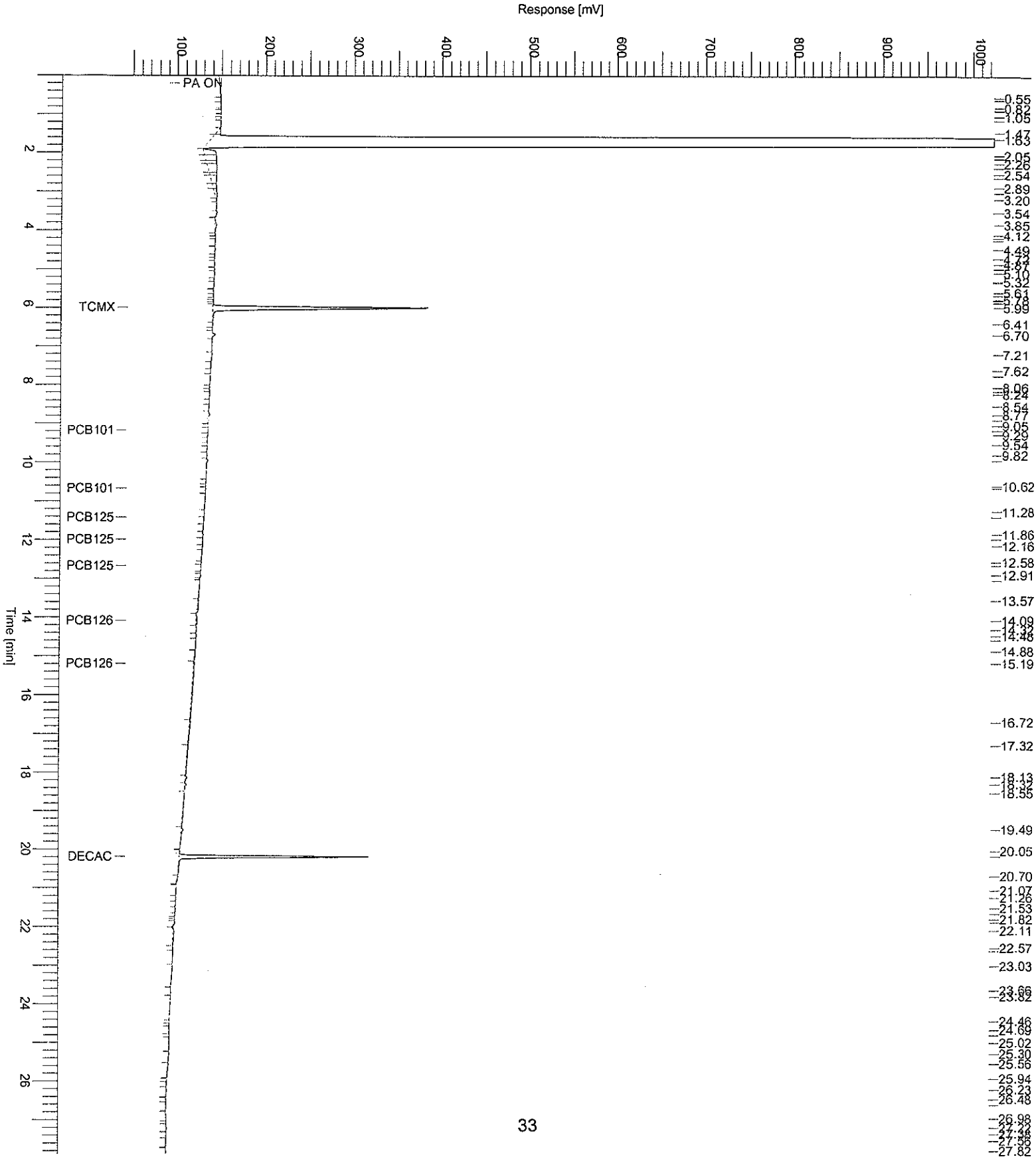
Report stored in ASCII file: G:\gc06\CHb\285b019.TX0

GC 06 Rtx-5

Sample Name : 175141-001,95361,mss Sample #: 95361 Page 1 of 1
FileName : g:\gc06\chb\285b019.raw
Date : 10/12/04 10:00:53 AM
Method : gc06fsa1ul Time of Injection: 10/12/04 4:19:37 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 44.30 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 44.30 mV Plot Scale: 979.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-001,95361,mss
Instrument Name : gc06
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 10/12/04 10:02:01 AM
Data Acquisition Time : 10/12/04 4:19:37 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHa\285a019.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	693353.52	51.12	0.6729	1	34.40	6.88
Aroclor-1016	9.073	6444.28	3.79	0.6729	1	2.55	0.51
Aroclor-1254	15.392	16994.03	0.02	0.6729	1	0.01	0.00
Aroclor-1260	17.704	3787.31	1.28	0.6729	1	0.86	0.17
Decachlorobiphenyl	21.027	529065.26	56.82	0.6729	1	38.23	7.65
		1249644.40	113.04			76.07	15.21

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#2	9.073	5590.13	9.70	0.6729	1	6.52	1.30
PCB1016#3	10.782	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#4	11.249	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#5	11.659	854.14	2.64	0.6729	1	1.78	0.36
		6444.28	12.34			8.30	1.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.630	1621.58	3.18	0.6729	1	2.14	0.43
PCB1254#2	13.908	2012.72	3.72	0.6729	1	2.50	0.50
PCB1254#3	14.253	0.00	0.00	0.6729	1	0.00	0.00
PCB1254#4	15.392	7654.16	11.10	0.6729	1	7.47	1.49
PCB1254#5	16.112	5705.58	6.03	0.6729	1	4.06	0.81
		16994.03	24.02			16.17	3.23

FA
10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.703	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#2	15.687	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#3	16.367	1133.83	2.22	0.6729	1	1.49	0.30
PCB1260#4	16.957	972.48	2.22	0.6729	1	1.50	0.30
PCB1260#5	17.704	1681.01	1.48	0.6729	1	1.00	0.20
		3787.31	5.92			3.98	0.80

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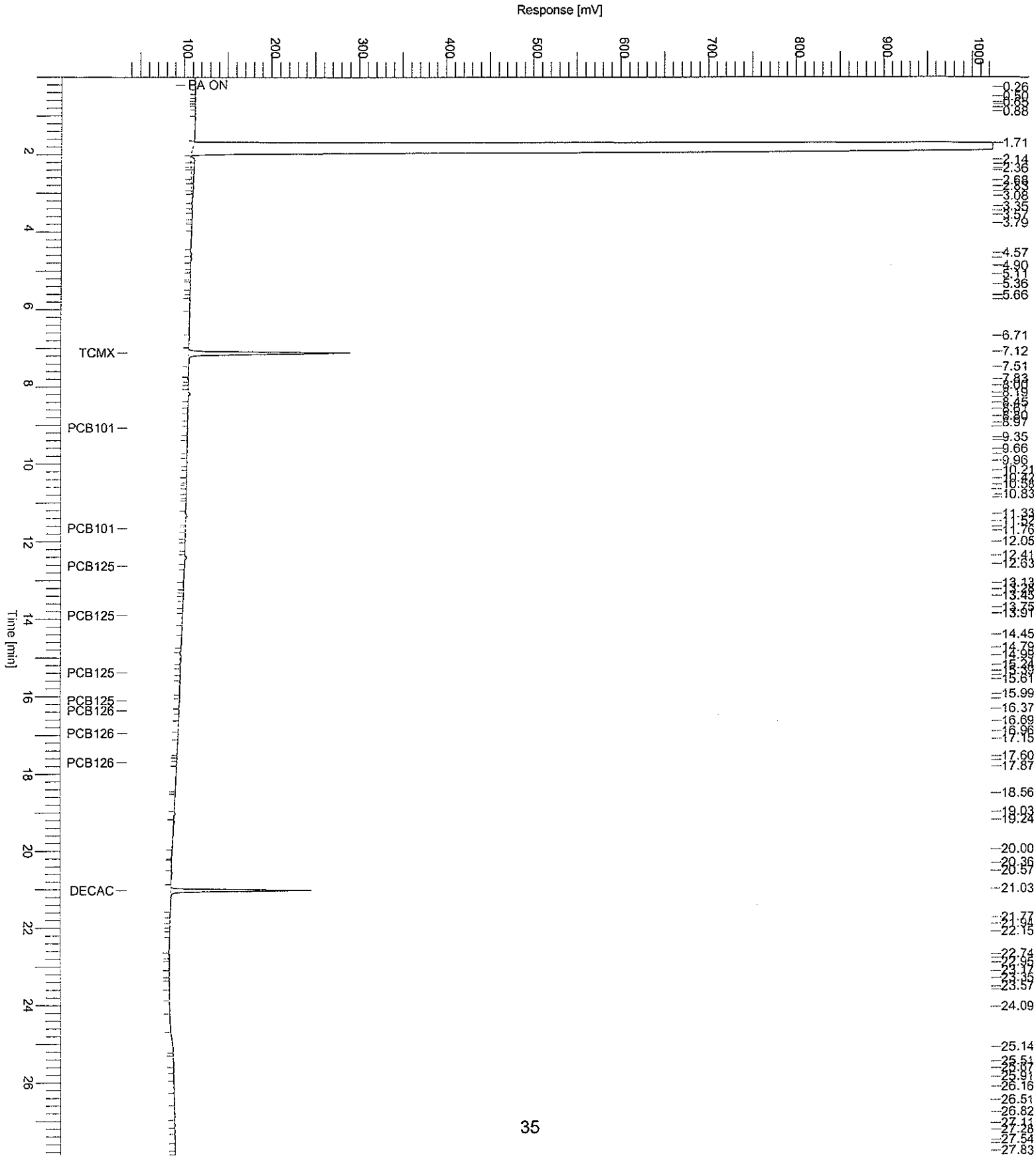
Report stored in ASCII file: G:\gc06\CHa\285a019.TX0

GC 06 Rtx-CLPesticides

Sample Name : 175141-001,95361,mss Sample #: 95361 Page 1 of 1
FileName : g:\gc06\cha\285a019.raw
Date : 10/12/04 10:02:06 AM
Method : gc06fsa1ul Time of Injection: 10/12/04 4:19:37 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 35.47 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 35.47 mV Plot Scale: 988.5 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC06	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 204411491018	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 285_018	Batchnum	: 95361	Injected	: 12-OCT-2004 03:46
IDF	: 1.0			Units	: ug/Kg

Prep: 15.09 g --> 10.0 ml = 0.6627 ml/g PDF

Analyte	Ch	Calibration	Result	Conf	Result	RPD	RL	B=285_012	Flags
Aroclor-1016	B	204405784001	ND				9.5		
Aroclor-1016 Peak # 1.....B		204405784001		7.49	4.79	44%			
Aroclor-1016 Peak # 2	B	204405784001		ND	20.79				
Aroclor-1016 Peak # 3	B	204405784001		ND	ND				
Aroclor-1016 Peak # 4.....B		204405784001		2.74	ND				
Aroclor-1016 Peak # 5.....B		204405784001		1.85	ND				
Aroclor-1221	B		ND				19		
Aroclor-1232	B		ND				9.5		
Aroclor-1242	B		ND				9.5		
Aroclor-1248	B		ND				9.5		
Aroclor-1254	B	204409828001	ND				9.5		?v
Aroclor-1254 Peak # 1.....B		204409828001		1.41	7.10	134%			
Aroclor-1254 Peak # 2.....B		204409828001		0.62	34.40	193%			
Aroclor-1254 Peak # 3.....B		204409828001		0.16	2.79	179%			
Aroclor-1254 Peak # 4	B	204409828001		ND	1.79				
Aroclor-1254 Peak # 5.....B		204409828001		1.56	6.38	121%			
Aroclor-1260	B	204405784001	18	3.3		139%	9.5		x
Aroclor-1260 Peak # 1.....B		204405784001		7.21	1.04	149%			
Aroclor-1260 Peak # 2.....B		204405784001		63.41	3.87	177%			
Aroclor-1260 Peak # 3.....B		204405784001		9.93	4.31	79%			
Aroclor-1260 Peak # 4.....B		204405784001		2.20	3.91	56%			
Aroclor-1260 Peak # 5.....B		204405784001		7.16	3.13	78%			

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	204405784001	33.13	39.56	119	65-135	
Decachlorobiphenyl	B	204405784001	33.13	32.55	98	65-135	

?=missing v=ICV out x=false positive

Analyst: _____ Date: 10/12/04 Reviewer: _____ Date: 10/14/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-009,95361
Instrument Name : gc06
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 10/12/04 11:04:12 AM
Data Acquisition Time : 10/12/04 3:46:24 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\285b018p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1180749.44	59.69	0.6627	1	39.56	7.91
Aroclor-1016	6.874	8874.47	2.50	0.6627	1	1.66	0.33
Aroclor-1260	14.092	130038.98	28.33	0.6627	1	18.78	3.76
Aroclor-1254	14.772	5698.52	0.01	0.6627	1	0.00	0.00
Decachlorobiphenyl	20.187	641608.67	49.11	0.6627	1	32.55	6.51
		1966970.08	139.64			92.54	18.51

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.874	4965.41	11.30	0.6627	1	7.49	1.50
PCB1016#2	8.315	0.00	0.00	0.6627	1	0.00	0.00
PCB1016#3	8.967	0.00	0.00	0.6627	1	0.00	0.00
PCB1016#4	9.178	2551.29	4.13	0.6627	1	2.74	0.55
PCB1016#5	10.627	1357.78	2.79	0.6627	1	1.85	0.37
		8874.47	18.21			12.07	2.41

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.499	8959.97	10.89	0.6627	1	7.21	1.44
PCB1260#2	14.092	92628.46	95.68	0.6627	1	63.41	12.68
PCB1260#3	15.185	10070.66	14.99	0.6627	1	9.93	1.99
PCB1260#4	15.749	2043.92	3.32	0.6627	1	2.20	0.44
PCB1260#5	16.416	16335.97	10.81	0.6627	1	7.16	1.43
		130038.98	135.69			89.92	17.98

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.424	1686.87	2.13	0.6627	1	1.41	0.28
PCB1254#2	11.980	1059.54	0.94	0.6627	1	0.62	0.12
PCB1254#3	12.641	169.73	0.24	0.6627	1	0.16	0.03
PCB1254#4	14.405	0.00	0.00	0.6627	1	0.00	0.00
PCB1254#5	14.772	2782.38	2.36	0.6627	1	1.56	0.31
		5698.52	5.66			3.75	0.75

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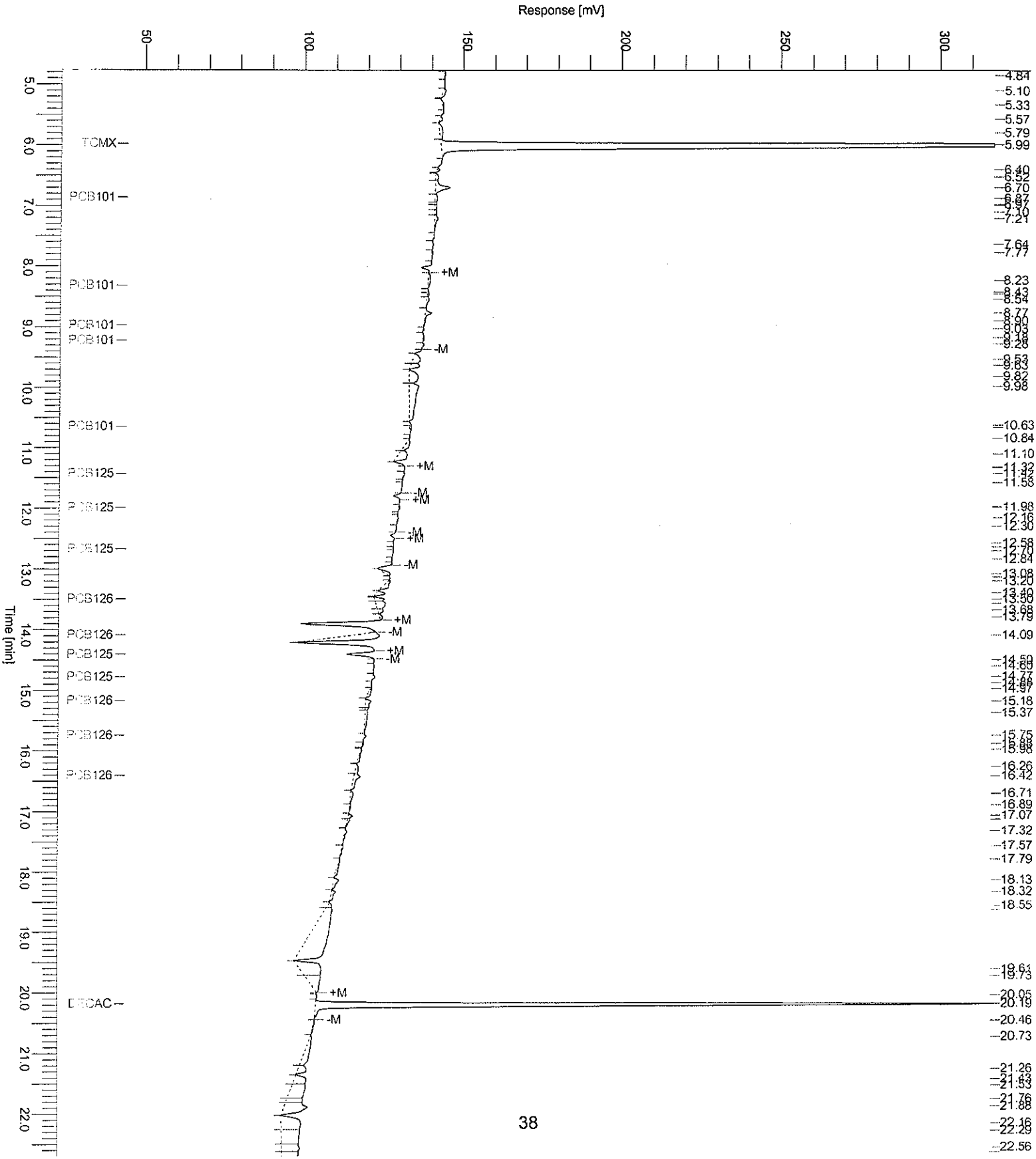
Report stored in ASCII file: G:\gc06\chb\285b018p.TX0

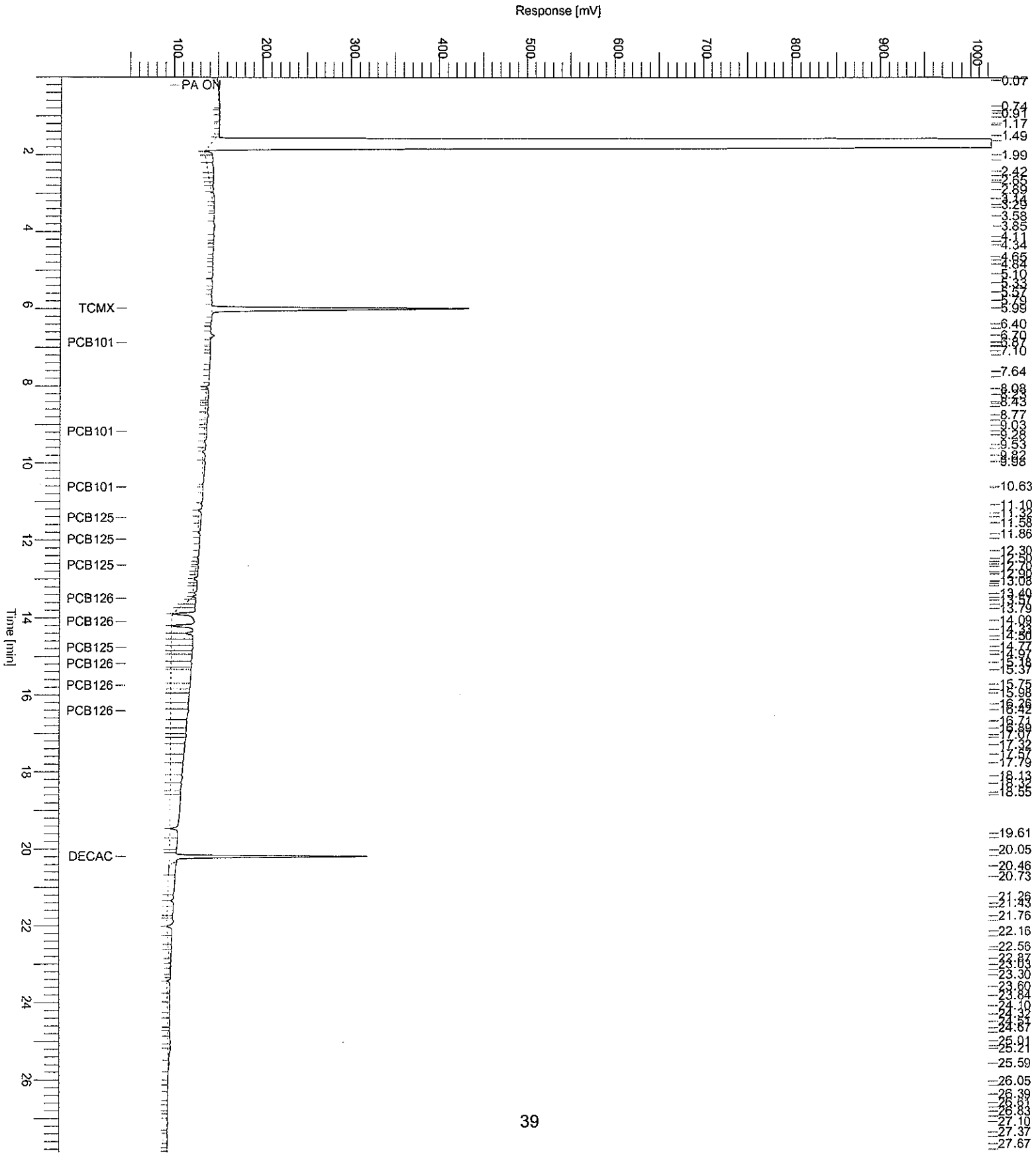
GC 06 Rtx-5

Sample Name : 175141-009,95361 Sample #: 95361 Page 1 of 1
FileName : g:\gc06\chb\285b018.raw
Date : 10/12/04 11:04:19 AM
Method :
Time of Injection: 10/12/04 3:46:24 AM
Start Time : 4.76 min End Time : 22.69 min Low Point : 44.34 mV High Point : 316.97 mV
Plot Offset: 44.34 mV Plot Scale: 272.6 mV



GC 06 Rtx-5

Sample Name : 175141-009,95361 Sample #: 95361 Page 1 of 1
FileName : g:\gc06\chb\285b018.raw
Date : 10/12/04 10:00:46 AM
Method : gc06fsa1ul Time of Injection: 10/12/04 3:46:24 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 46.79 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 46.79 mV Plot Scale: 977.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-009,95361
Instrument Name : gc06
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 10/12/04 10:48:02 AM
Data Acquisition Time : 10/12/04 3:46:24 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\285a018p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	801437.26	59.09	0.6627	1	39.16	7.83
Aroclor-1016	9.070	20447.96	12.04	0.6627	1	7.98	1.60
Aroclor-1254	13.984	48502.44	0.05	0.6627	1	0.03	0.01
Aroclor-1260	17.702	14062.72	4.77	0.6627	1	3.16	0.63
Decachlorobiphenyl	21.027	537576.38	57.73	0.6627	1	38.26	7.65
		1422026.76	133.68			88.59	17.72

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.107	2359.98	7.24	0.6627	1	4.79	0.96
PCB1016#2	9.070	18087.98	31.37	0.6627	1	20.79	4.16
PCB1016#3	10.782	0.00	0.00	0.6627	1	0.00	0.00
PCB1016#4	11.249	0.00	0.00	0.6627	1	0.00	0.00
PCB1016#5	11.666	0.00	0.00	0.6627	1	0.00	0.00
		20447.96	38.61			25.59	5.12

PA 10/12/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.628	5475.55	10.72	0.6627	1	7.10	1.42
PCB1254#2	13.984	28080.49	51.91	0.6627	1	34.40	6.88
PCB1254#3	14.301	3969.59	4.21	0.6627	1	2.79	0.56
PCB1254#4	15.404	1864.02	2.70	0.6627	1	1.79	0.36
PCB1254#5	16.103	9112.78	9.63	0.6627	1	6.38	1.28
		48502.44	79.17			52.46	10.49

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.713	833.43	1.58	0.6627	1	1.04	0.21
PCB1260#2	15.698	1956.48	5.84	0.6627	1	3.87	0.77
PCB1260#3	16.358	3321.50	6.50	0.6627	1	4.31	0.86
PCB1260#4	16.962	2582.83	5.90	0.6627	1	3.91	0.78
PCB1260#5	17.702	5368.48	4.73	0.6627	1	3.13	0.63
		14062.72	24.55			16.27	3.25

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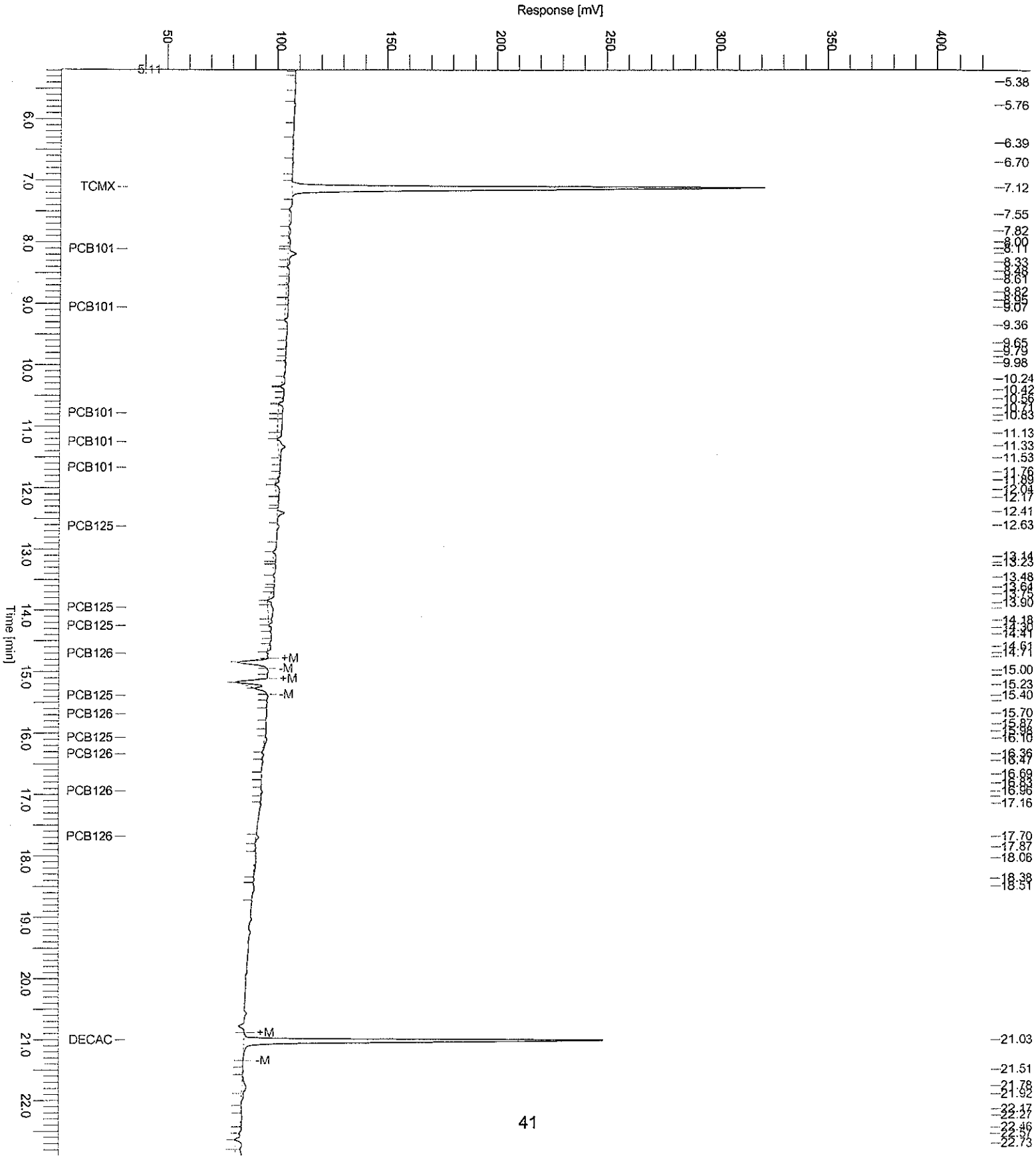
Report stored in ASCII file: G:\gc06\cha\285a018p.TX0

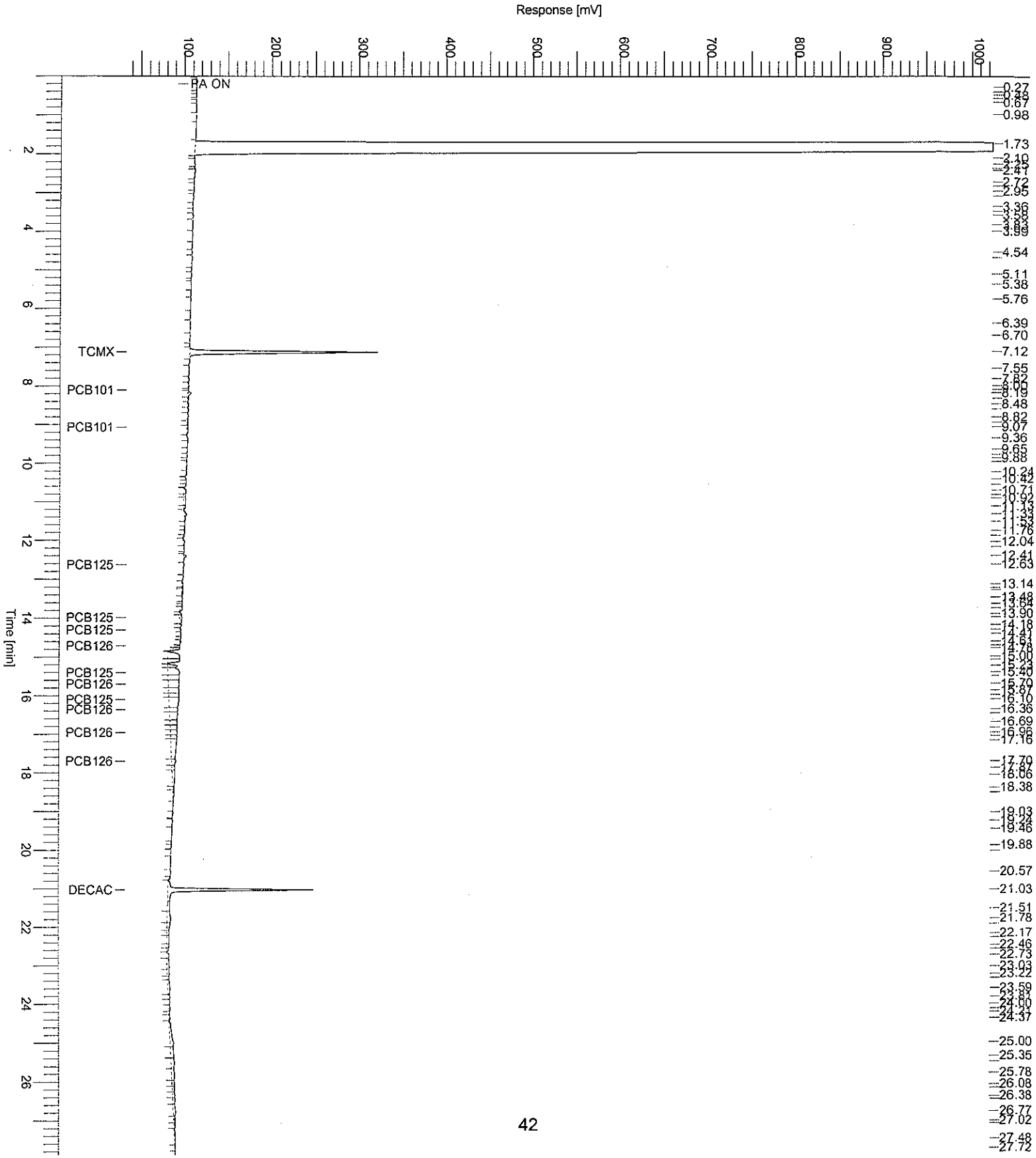
GC 06 Rtx-CLPesticides

Sample Name : 175141-009,95361 Sample #: 95361 Page 1 of 1
FileName : g:\gc06\cha\285a018.raw
Date : 10/12/04 10:48:08 AM
Method :
Time of Injection: 10/12/04 3:46:24 AM
Start Time : 5.19 min End Time : 22.89 min Low Point : 31.73 mV High Point : 425.34 mV
Plot Offset: 31.73 mV Plot Scale: 393.6 mV



GC 06 Rtx-CLPesticides

Sample Name : 175141-009,95361 Sample #: 95361 Page 1 of 1
FileName : g:\gc06\cha\285a018.raw
Date : 10/12/04 10:01:59 AM
Method : gc06fsa1ul Time of Injection: 10/12/04 3:46:24 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 34.21 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 34.21 mV Plot Scale: 989.8 mV



QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

ıstid : GC06
ɜqnum : 204411491012
ılename : 285_012
)F : 1.0

Samplenum: QC267655
Matrix : Soil
Batchnum : 95361

Cident :
Acctnum : QC
Injected : 12-OCT-2004 00:27
Units : ug/Kg

rep: 14.94 g --> 10.0 ml = 0.6693 ml/g PDF

nalyte	Ch	Calibration	Result	Conf. Result		RPD	RL	Flags
roclor-1016	B	204405784001	ND				9.6	
roclor-1016 Peak # 1	B	204405784001		ND	ND			
roclor-1016 Peak # 2	B	204405784001		ND	3.27			
roclor-1016 Peak # 3	B	204405784001		ND	ND			
roclor-1016 Peak # 4.....	B	204405784001		1.24	ND			
roclor-1016 Peak # 5.....	B	204405784001		1.30	ND			
roclor-1221	B		ND				19	
roclor-1232	B		ND				9.6	
roclor-1242	B		ND				9.6	
roclor-1248	B		ND				9.6	
roclor-1254	B	204409828001	ND				9.6	?v
Aroclor-1254 Peak # 1	B	204409828001		ND	1.59			
Aroclor-1254 Peak # 2.....	B	204409828001		1.62	0.45	114%		
Aroclor-1254 Peak # 3.....	B	204409828001		0.25	0.32	26%		
Aroclor-1254 Peak # 4	B	204409828001		ND	0.35			
Aroclor-1254 Peak # 5	B	204409828001		ND	ND			
Aroclor-1260	B	204405784001	3.6 J	1.3		95%	9.6	x
Aroclor-1260 Peak # 1	B	204405784001		ND	ND			
Aroclor-1260 Peak # 2	B	204405784001		ND	2.01			
Aroclor-1260 Peak # 3.....	B	204405784001		18.12	1.48	170%		
Aroclor-1260 Peak # 4	B	204405784001		ND	1.62			
Aroclor-1260 Peak # 5	B	204405784001		ND	1.33			

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	204405784001	33.47	36.29	108	62-140	
Decachlorobiphenyl	B	204405784001	33.47	39.19	117	48-149	

PA 10/12/04

mw 10/12/04

?=missing v=ICV out x=false positive

Software Version : 6.1.2.0.1:D19
Sample Name : qc267655,95361,mb
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 10/12/04 9:59:57 AM
Data Acquisition Time : 10/12/04 12:27:00 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHb\285b012.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1072624.97	54.22	0.6693	1	36.29	7.26
Aroclor-1016	9.178	2090.15	0.59	0.6693	1	0.39	0.08
Aroclor-1254	11.982	3003.23	0.00	0.6693	1	0.00	0.00
Aroclor-1260	15.182	18188.57	3.96	0.6693	1	2.65	0.53
Decachlorobiphenyl	20.187	764944.96	58.56	0.6693	1	39.19	7.84
		1860851.89	117.33			78.54	15.71

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.857	0.00	0.00	0.6693	1	0.00	0.00
PCB1016#2	8.315	0.00	0.00	0.6693	1	0.00	0.00
PCB1016#3	8.967	0.00	0.00	0.6693	1	0.00	0.00
PCB1016#4	9.178	1142.07	1.85	0.6693	1	1.24	0.25
PCB1016#5	10.654	948.08	1.95	0.6693	1	1.30	0.26
		2090.15	3.79			2.54	0.51

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	0.6693	1	0.00	0.00
PCB1260#2	14.081	0.00	0.00	0.6693	1	0.00	0.00
PCB1260#3	15.182	18188.57	27.08	0.6693	1	18.12	3.62
PCB1260#4	15.743	0.00	0.00	0.6693	1	0.00	0.00
PCB1260#5	16.402	0.00	0.00	0.6693	1	0.00	0.00
		18188.57	27.08			18.12	3.62

PA 10/12/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.427	0.00	0.00	0.6693	1	0.00	0.00
PCB1254#2	11.982	2736.56	2.42	0.6693	1	1.62	0.32
PCB1254#3	12.667	266.67	0.37	0.6693	1	0.25	0.05
PCB1254#4	14.405	0.00	0.00	0.6693	1	0.00	0.00
PCB1254#5	14.773	0.00	0.00	0.6693	1	0.00	0.00
		3003.23	2.79			1.87	0.37

----------CURTIS & TOMPKINS LTD----------

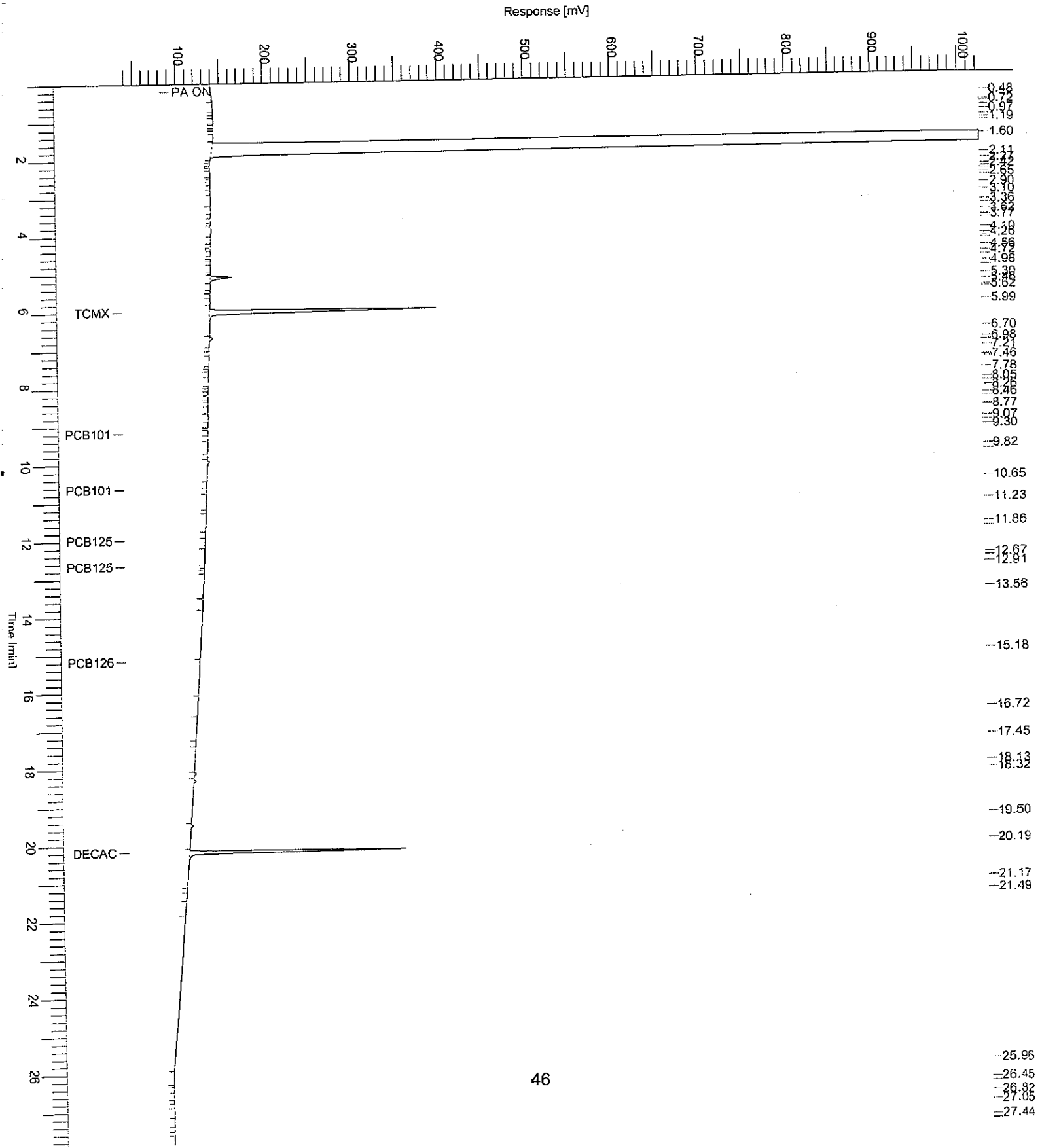
Report stored in ASCII file: G:\gc06\CHb\285b012.TX0

GC 06 Rtx-5

nple Name : qc267655,95361,mb
eName : g:\gc06\chb\285b012.raw
te : 10/12/04 10:00:01 AM
thod : gc06fsa1ul
rt Time : 0.00 min End Time : 27.88 min
ale Factor: 1.0 Plot Offset: 34.76 mV

Sample #: 95361 Page 1 of 1

Time of Injection: 10/12/04 12:27:00 AM
Low Point : 34.76 mV High Point : 1024.00 mV
Plot Scale: 989.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267655,95361,mb
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 10/12/04 10:01:10 AM
Data Acquisition Time : 10/12/04 12:27:00 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHa\285a012.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	764187.41	56.35	0.6693	1	37.72	7.54
Aroclor-1016	9.064	2818.63	1.66	0.6693	1	1.11	0.22
Aroclor-1254	12.628	2390.97	0.00	0.6693	1	0.00	0.00
Aroclor-1260	17.706	5448.62	1.85	0.6693	1	1.24	0.25
Decachlorobiphenyl	21.027	644388.89	69.20	0.6693	1	46.32	9.26
		1419234.51	129.06			86.38	17.28

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	0.6693	1	0.00	0.00
PCB1016#2	9.064	2818.63	4.89	0.6693	1	3.27	0.65
PCB1016#3	10.782	0.00	0.00	0.6693	1	0.00	0.00
PCB1016#4	11.249	0.00	0.00	0.6693	1	0.00	0.00
PCB1016#5	11.666	0.00	0.00	0.6693	1	0.00	0.00
		2818.63	4.89			3.27	0.65

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.628	1212.39	2.37	0.6693	1	1.59	0.32
PCB1254#2	13.969	361.75	0.67	0.6693	1	0.45	0.09
PCB1254#3	14.265	453.19	0.48	0.6693	1	0.32	0.06
PCB1254#4	15.383	363.65	0.53	0.6693	1	0.35	0.07
PCB1254#5	16.067	0.00	0.00	0.6693	1	0.00	0.00
		2390.97	4.05			2.71	0.54

RA 10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.703	0.00	0.00	0.6693	1	0.00	0.00
PCB1260#2	15.707	1005.03	3.00	0.6693	1	2.01	0.40
PCB1260#3	16.353	1128.32	2.21	0.6693	1	1.48	0.30
PCB1260#4	16.965	1062.60	2.43	0.6693	1	1.62	0.32
PCB1260#5	17.706	2252.67	1.98	0.6693	1	1.33	0.27
		5448.62	9.62			6.44	1.29

----------CURTIS & TOMPKINS LTD----------

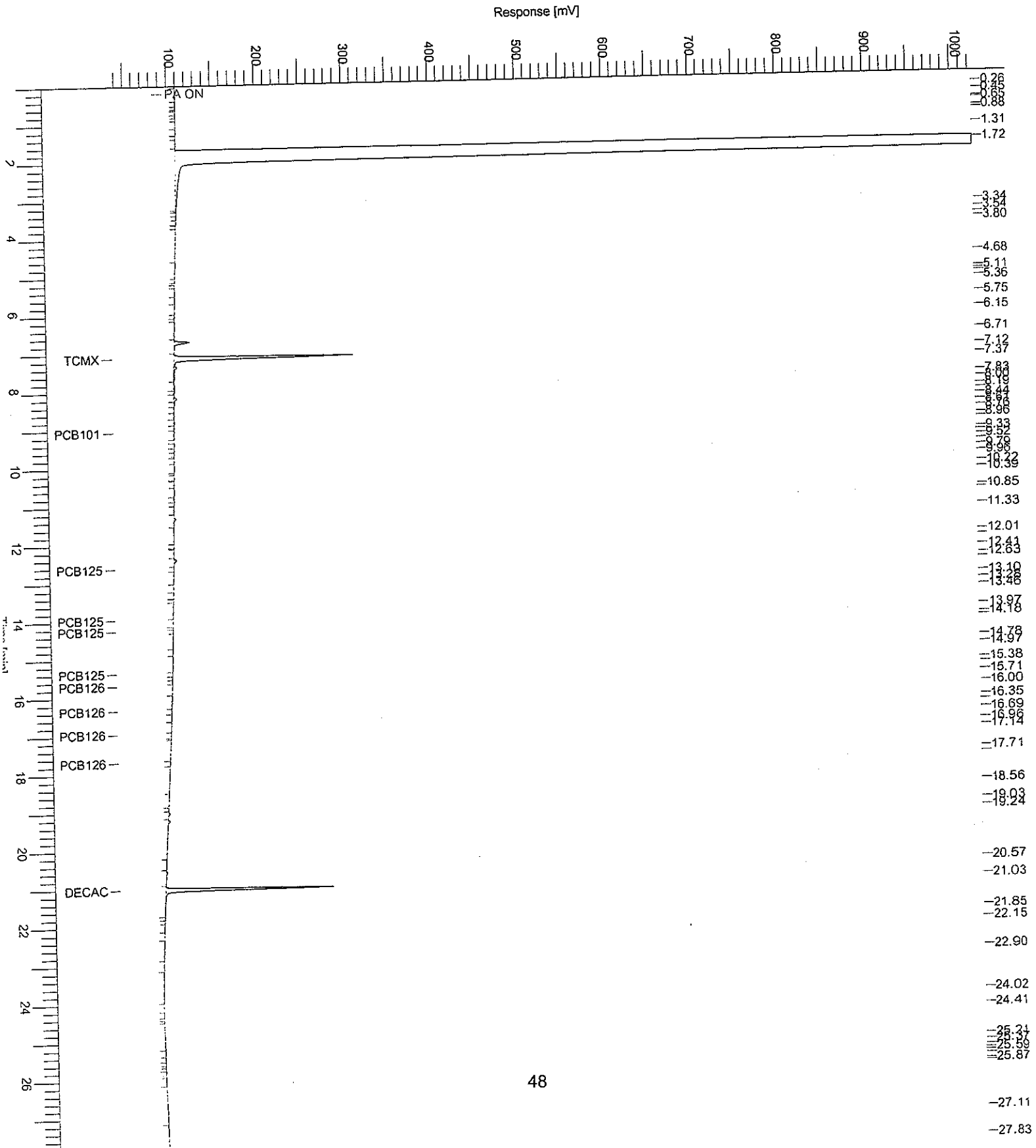
Report stored in ASCII file: G:\gc06\CHa\285a012.TX0

GC 06 Rtx-CLPesticides

ple Name : qc267655,95361,mb
lame : g:\gc06\cha\285a012.raw
: 10/12/04 10:01:15 AM
iod : gc06fsa1ul
Time : 0.00 min End Time : 27.88 min
e Factor: 1.0 Plot Offset: 33.19 mV

Sample #: 95361 Page 1 of 1

Time of Injection: 10/12/04 12:27:00 AM
Low Point : 33.19 mV High Point : 1024.00 mV
Plot Scale: 990.8 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204411491013
Filename : 285_013
IDF : 1.0
Run type : LCS
Samplenum: QC267656
Matrix : Soil
Batchnum : 95361
Inj : 12-OCT-2004 01:00
Units : ug/Kg

LCS: 14.88 g --> 10.0 ml = 0.672 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
Aroclor-1016 Peak # 1		ND	B			
Aroclor-1016 Peak # 2		ND	B			
Aroclor-1016 Peak # 3		ND	B			
Aroclor-1016 Peak # 4		ND	B			
Aroclor-1016 Peak # 5		ND	B			
Aroclor-1254	168.0	144.1	B	86	69-143	?v u
Aroclor-1254 Peak # 1		147.5	B			
Aroclor-1254 Peak # 2		146.3	B			
Aroclor-1254 Peak # 3		140.9	B			
Aroclor-1254 Peak # 4		150.7	B			
Aroclor-1254 Peak # 5		135.2	B			
Aroclor-1260 Peak # 1		ND	B			
Aroclor-1260 Peak # 2		ND	B			
Aroclor-1260 Peak # 3		ND	B			
Aroclor-1260 Peak # 4		ND	B			
Aroclor-1260 Peak # 5		ND	B			
TCMX	33.60	34.76	B	103	62-140	u
Decachlorobiphenyl	33.60	35.01	B	104	48-149	u

PA 10/12/04

?=missing u=use v=ICV out

Software Version : 6.1.2.0.1:D19
Sample Name : qc267656,95361,lcs
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 10/12/04 10:09:17 AM
Data Acquisition Time : 10/12/04 1:00:12 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\285b013p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1023069.28	51.72	0.6720	1	34.76	6.95
Aroclor-1016	10.659	42100.11	11.87	0.6720	1	7.97	1.59
Aroclor-1254	11.987	855606.96	0.86	0.6720	1	0.58	0.12
Aroclor-1260	14.093	162797.32	35.47	0.6720	1	23.84	4.77
Decachlorobiphenyl	20.187	680555.75	52.10	0.6720	1	35.01	7.00
		2764129.42	152.01			102.16	20.43

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.867	1225.08	2.79	0.6720	1	1.87	0.37
PCB1016#2	8.329	3929.97	7.58	0.6720	1	5.09	1.02
PCB1016#3	8.971	7440.69	5.01	0.6720	1	3.37	0.67
PCB1016#4	9.239	5167.34	8.36	0.6720	1	5.62	1.12
PCB1016#5	10.659	24337.04	49.98	0.6720	1	33.59	6.72
		42100.11	73.72			49.54	9.91

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	0.6720	1	0.00	0.00
PCB1260#2	14.093	110855.47	114.51	0.6720	1	76.95	15.39
PCB1260#3	15.181	9311.98	13.86	0.6720	1	9.32	1.86
PCB1260#4	15.757	13259.63	21.56	0.6720	1	14.49	2.90
PCB1260#5	16.417	29370.25	19.43	0.6720	1	13.06	2.61
		162797.32	169.36			113.82	22.76

PA
10/12/04

Group Report For : Aroclor-1254

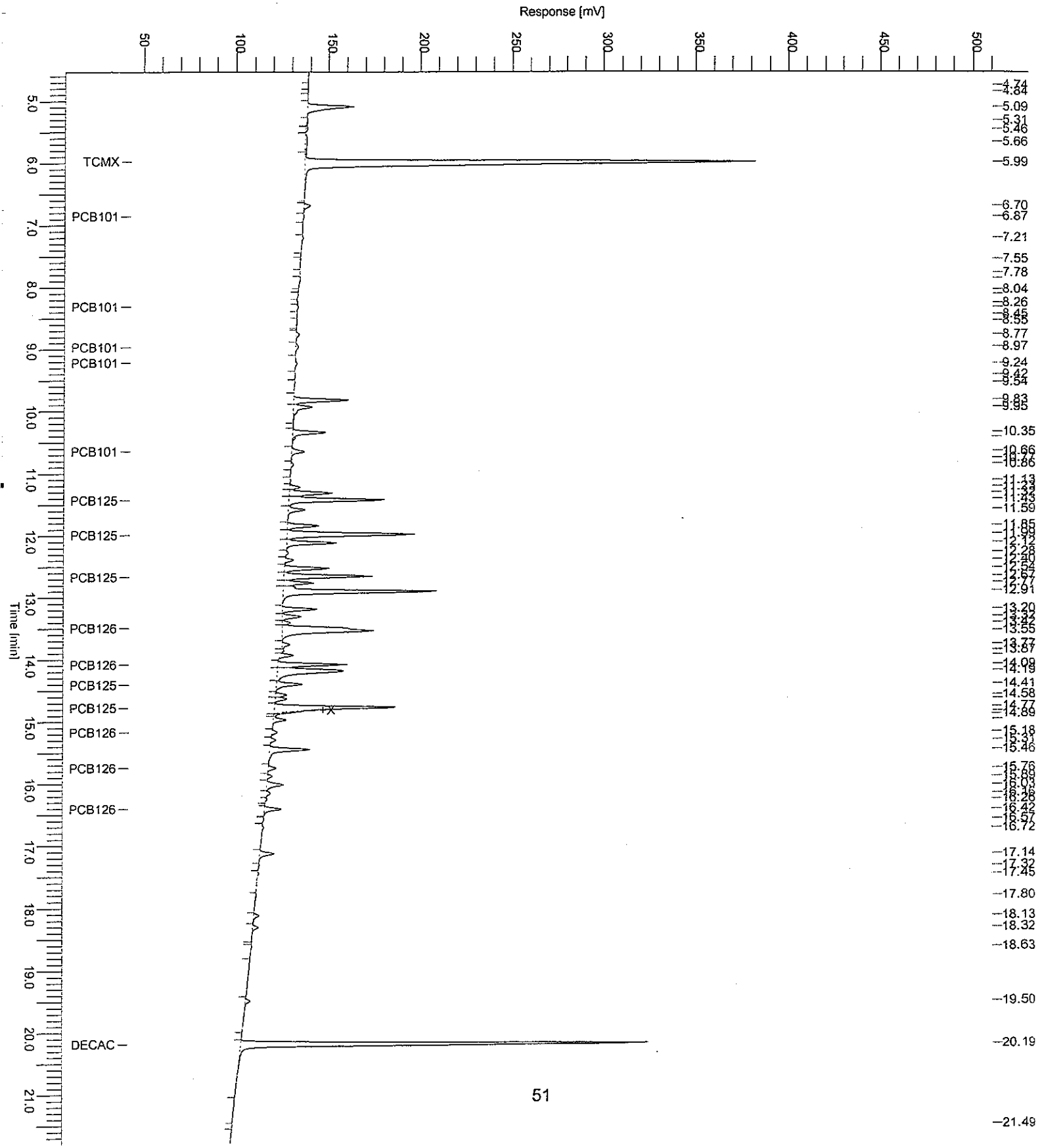
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.427	174018.01	219.42	0.6720	1	147.46	29.49
PCB1254#2	11.987	245678.93	217.64	0.6720	1	146.27	29.25
PCB1254#3	12.667	150960.79	209.62	0.6720	1	140.87	28.17
PCB1254#4	14.411	47665.67	224.29	0.6720	1	150.74	30.15
PCB1254#5	14.773	237283.56	201.21	0.6720	1	135.22	27.04
		855606.96	1072.18			720.55	144.11

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\285b013p.TX0

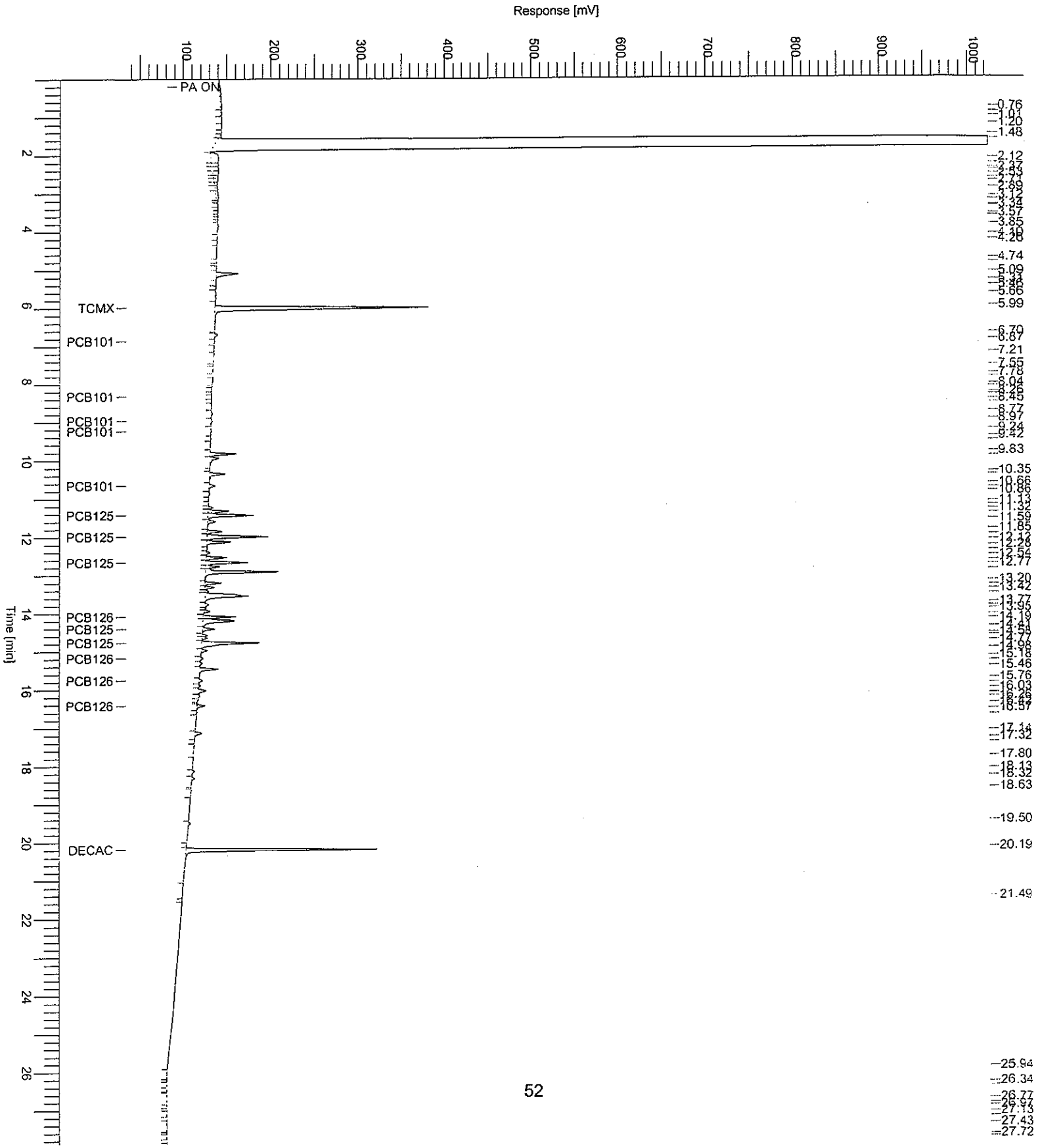
GC 06 Rtx-5

Sample Name : qc267656,95361,lcs Sample #: 95361 Page 1 of 1
FileName : g:\gc06\chb\285b013.raw
Date : 10/12/04 10:09:24 AM
Method : Time of Injection: 10/12/04 1:00:12 AM
Start Time : 4.53 min End Time : 21.80 min Low Point : 43.26 mV High Point : 510.36 mV
Plot Offset: 43.26 mV Plot Scale: 467.1 mV



GC 06 Rtx-5

Sample Name : qc267656,95361,lcs Sample #: 95361 Page 1 of 1
FileName : g:\gc06\chb\285b013.raw
Date : 10/12/04 10:00:09 AM
Method : gc06fsa1ul Time of Injection: 10/12/04 1:00:12 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 34.80 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 34.80 mV Plot Scale: 989.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267656,95361,lcs
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 10/12/04 10:04:51 AM
Data Acquisition Time : 10/12/04 1:00:12 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\285a013p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	716369.97	52.82	0.6720	1	35.50	7.10
Aroclor-1016	11.682	54894.25	32.31	0.6720	1	21.72	4.34
Aroclor-1254	14.273	763451.26	0.76	0.6720	1	0.51	0.10
Aroclor-1260	14.720	149988.07	50.88	0.6720	1	34.20	6.84
Decachlorobiphenyl	21.027	563263.80	60.49	0.6720	1	40.65	8.13
		2247967.34	197.27			132.57	26.51

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	0.6720	1	0.00	0.00
PCB1016#2	9.072	4393.90	7.62	0.6720	1	5.12	1.02
PCB1016#3	10.809	2362.27	8.70	0.6720	1	5.85	1.17
PCB1016#4	11.261	2814.64	13.99	0.6720	1	9.40	1.88
PCB1016#5	11.682	45323.43	140.12	0.6720	1	94.17	18.83
		54894.25	170.44			114.54	22.91

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.643	111837.33	218.98	0.6720	1	147.16	29.43
PCB1254#2	13.973	113106.79	209.08	0.6720	1	140.51	28.10
PCB1254#3	14.273	196628.71	208.33	0.6720	1	140.01	28.00
PCB1254#4	15.403	145174.04	210.52	0.6720	1	141.48	28.30
PCB1254#5	16.084	196704.38	207.83	0.6720	1	139.67	27.93
		763451.26	1054.74			708.83	141.77

FA
10/11/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.720	69471.00	131.35	0.6720	1	88.27	17.65
PCB1260#2	15.702	39702.67	118.52	0.6720	1	79.65	15.93
PCB1260#3	16.345	7175.77	14.04	0.6720	1	9.44	1.89
PCB1260#4	16.956	9475.35	21.65	0.6720	1	14.55	2.91
PCB1260#5	17.704	24163.28	21.29	0.6720	1	14.31	2.86
		149988.07	306.84			206.21	41.24

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\285a013p.TX0

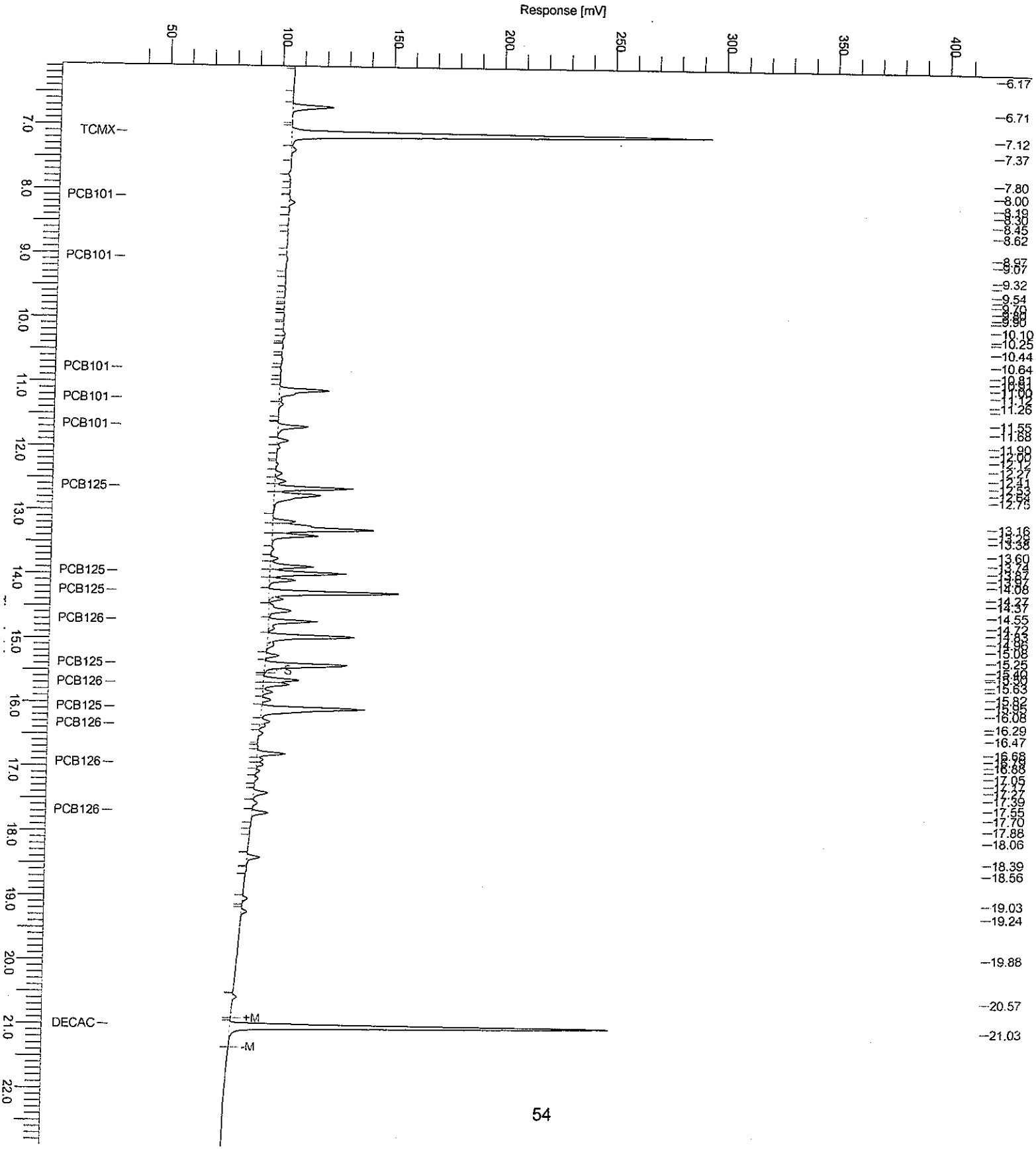
GC 06 Rtx-CLPesticides

Sample Name : qc267656,95361,lcs
FileName : g:\gc06\cha\285a013.raw
Date : 10/12/04 10:04:57 AM
Method :
Start Time : 6.07 min
Plot Offset: 30.89 mV

Sample #: 95361

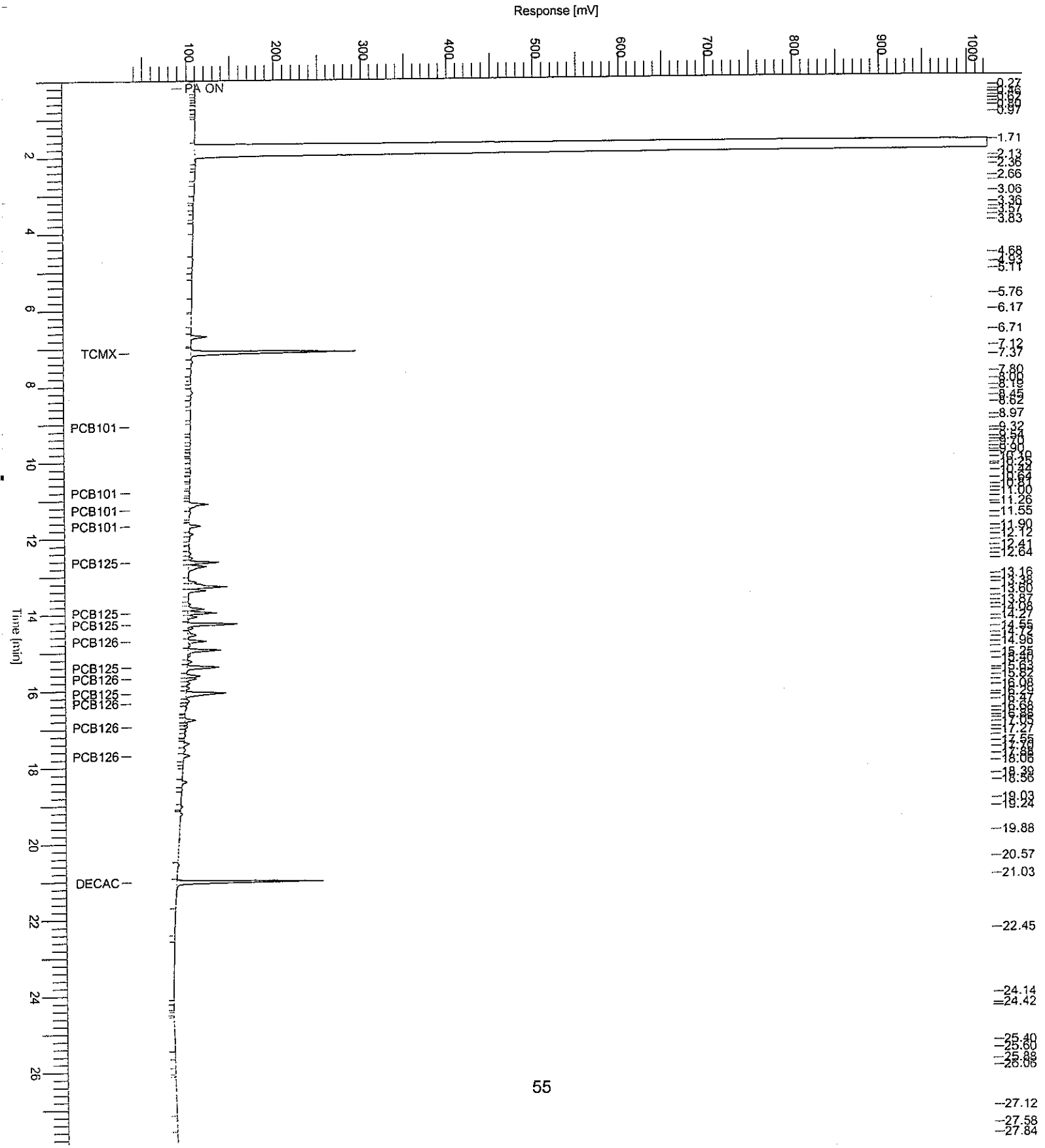
Page 1 of 1

Time of Injection: 10/12/04 1:00:12 AM
End Time : 22.89 min
Plot Scale: 388.6 mV
Low Point : 30.89 mV
High Point : 419.45 mV



GC 06 Rtx-CLPesticides

ample Name : qc267656,95361,lcs Sample #: 95361 Page 1 of 1
ileName : g:\gc06\cha\285a013.raw
ate : 10/12/04 10:01:22 AM
lethod : gc06fsa1ul Time of Injection: 10/12/04 1:00:12 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 33.37 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 33.37 mV Plot Scale: 990.6 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

nstid : GC06	Instid : GC06	Instid : GC06
eqnum : 204411491019	Seqnum : 204411491020	Seqnum : 204411491021
ilename : 285_019	Filename : 285_020	Filename : 285_021
DF : 1.0	IDF : 1.0	IDF : 1.0
un type : MSS	Run type : MS	Run type : MSD
amplenum: 175141-001	Samplenum: QC267657	Samplenum: QC267658
atrix : Soil	Matrix : Soil	Matrix : Soil
atchnum : 95361	Batchnum : 95361	Batchnum : 95361
nj : 12-OCT-2004 04:19	Inj : 12-OCT-2004 04:52	Inj : 12-OCT-2004 05:26
nits : ug/Kg		

SS: 14.86 g --> 10.0 ml = 0.6729 ml/g PDF
MS: 14.94 g --> 10.0 ml = 0.6693 ml/g PDF
SD: 15.05 g --> 10.0 ml = 0.6645 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS Ch	%Rec	MSD Ch	%Rec	Lim%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND B		ND B					
Aroclor-1016 Peak # 2				ND B		ND B					
Aroclor-1016 Peak # 3				ND B		ND B					
Aroclor-1016 Peak # 4				ND B		ND B					
Aroclor-1016 Peak # 5				ND B		ND B					
Aroclor-1254	ND	B	166.1	153.1 B	91	141.6 B	85	62-160	7	39	?v
Aroclor-1254 Peak # 1				166.8 B		158.3 B					
Aroclor-1254 Peak # 2				165.4 B		154.4 B					
Aroclor-1254 Peak # 3				157.9 B		150.7 B					
Aroclor-1254 Peak # 4				110.0 B		103.4 B					
Aroclor-1254 Peak # 5				165.5 B		141.1 B					
Aroclor-1260 Peak # 1				ND B		ND B					
Aroclor-1260 Peak # 2				ND B		ND B					
Aroclor-1260 Peak # 3				ND B		ND B					
Aroclor-1260 Peak # 4				ND B		ND B					
Aroclor-1260 Peak # 5				ND B		ND B					
TCMX			33.22	36.66 B	110	38.22 B	115	62-140	--		
Decachlorobiphenyl			33.22	34.60 B	103	33.54 B	101	48-149	--		

?=missing v=ICV out PA 10/12/04

MCW 10/12/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc267657,95361,ms
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 10/12/04 11:10:24 AM
Data Acquisition Time : 10/12/04 4:52:49 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\285b020p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1083516.84	54.77	0.6693	1	36.66	7.33
Aroclor-1016	10.658	48383.52	13.64	0.6693	1	9.13	1.83
Aroclor-1254	11.987	972890.73	0.97	0.6693	1	0.65	0.13
Aroclor-1260	14.093	190213.85	41.45	0.6693	1	27.74	5.55
Decachlorobiphenyl	20.187	675340.81	51.70	0.6693	1	34.60	6.92
		2970345.75	162.53			108.79	21.76

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.875	2329.26	5.30	0.6693	1	3.55	0.71
PCB1016#2	8.324	1606.53	3.10	0.6693	1	2.07	0.41
PCB1016#3	8.970	7878.41	5.31	0.6693	1	3.55	0.71
PCB1016#4	9.243	7134.32	11.54	0.6693	1	7.72	1.54
PCB1016#5	10.658	29435.02	60.45	0.6693	1	40.46	8.09
		48383.52	85.70			57.36	11.47

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	0.6693	1	0.00	0.00
PCB1260#2	14.093	127298.60	131.49	0.6693	1	88.01	17.60
PCB1260#3	15.182	13413.54	19.97	0.6693	1	13.37	2.67
PCB1260#4	15.757	14485.34	23.56	0.6693	1	15.77	3.15
PCB1260#5	16.416	35016.37	23.17	0.6693	1	15.51	3.10
		190213.85	198.18			132.65	26.53

FA 10/12/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.427	197611.38	249.17	0.6693	1	166.78	33.36
PCB1254#2	11.987	278894.60	247.07	0.6693	1	165.37	33.07
PCB1254#3	12.667	169891.72	235.91	0.6693	1	157.90	31.58
PCB1254#4	14.414	34930.50	164.37	0.6693	1	110.02	22.00
PCB1254#5	14.773	291562.53	247.23	0.6693	1	165.49	33.10
		972890.73	1143.75			765.56	153.11

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Report stored in ASCII file: G:\gc06\chb\285b020p.TX0

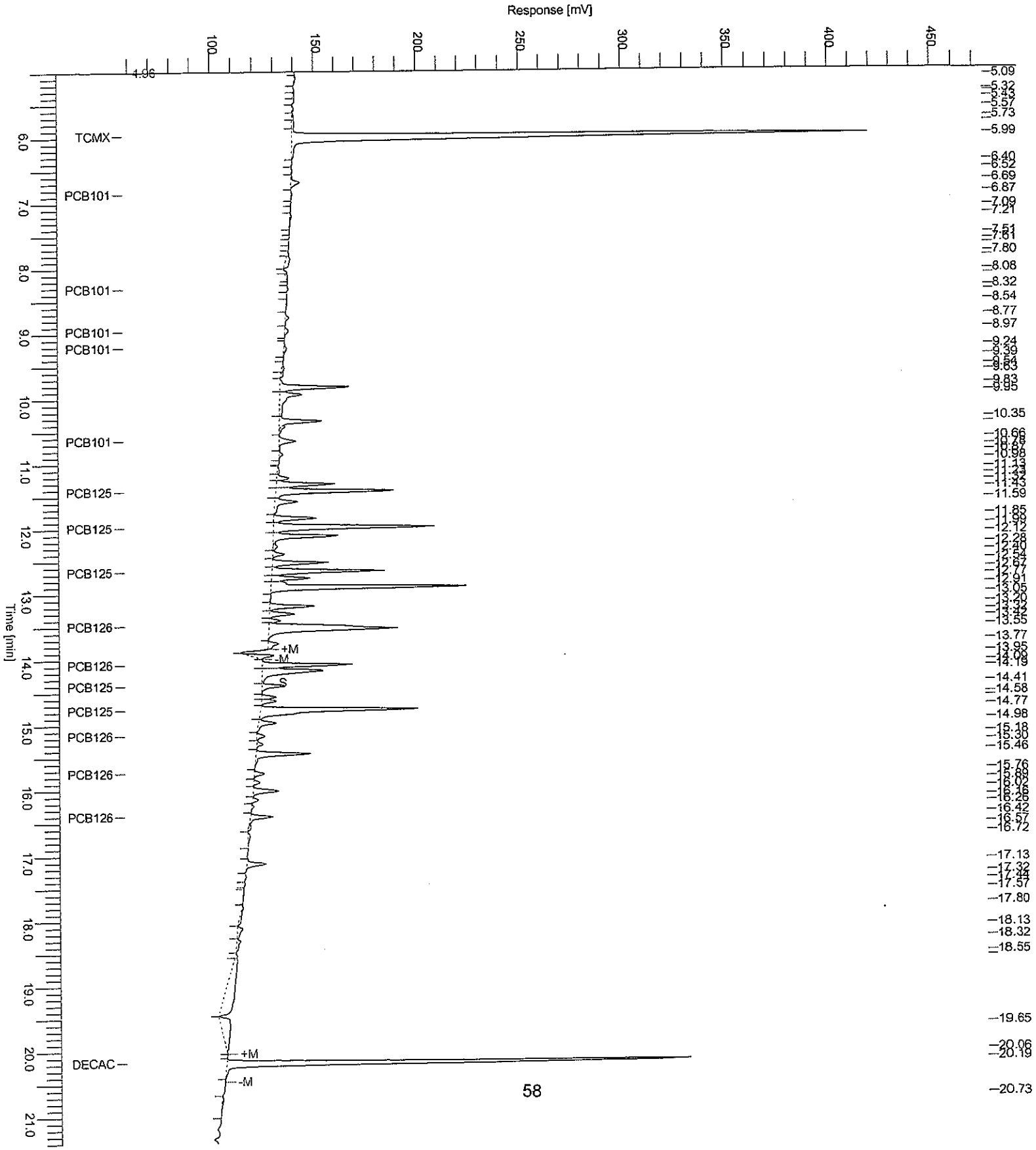
GC 06 Rtx-5

ample Name : qc267657,95361,ms
ileName : g:\gc06\chb\285b020.raw
ate : 10/12/04 11:10:31 AM
ethod :
tart Time : 5.00 min
lot Offset: 57.63 mV

Sample #: 95361

Page 1 of 1

Time of Injection: 10/12/04 4:52:49 AM
End Time : 21.41 min
Low Point : 57.63 mV
High Point : 475.05 mV
Plot Scale: 417.4 mV

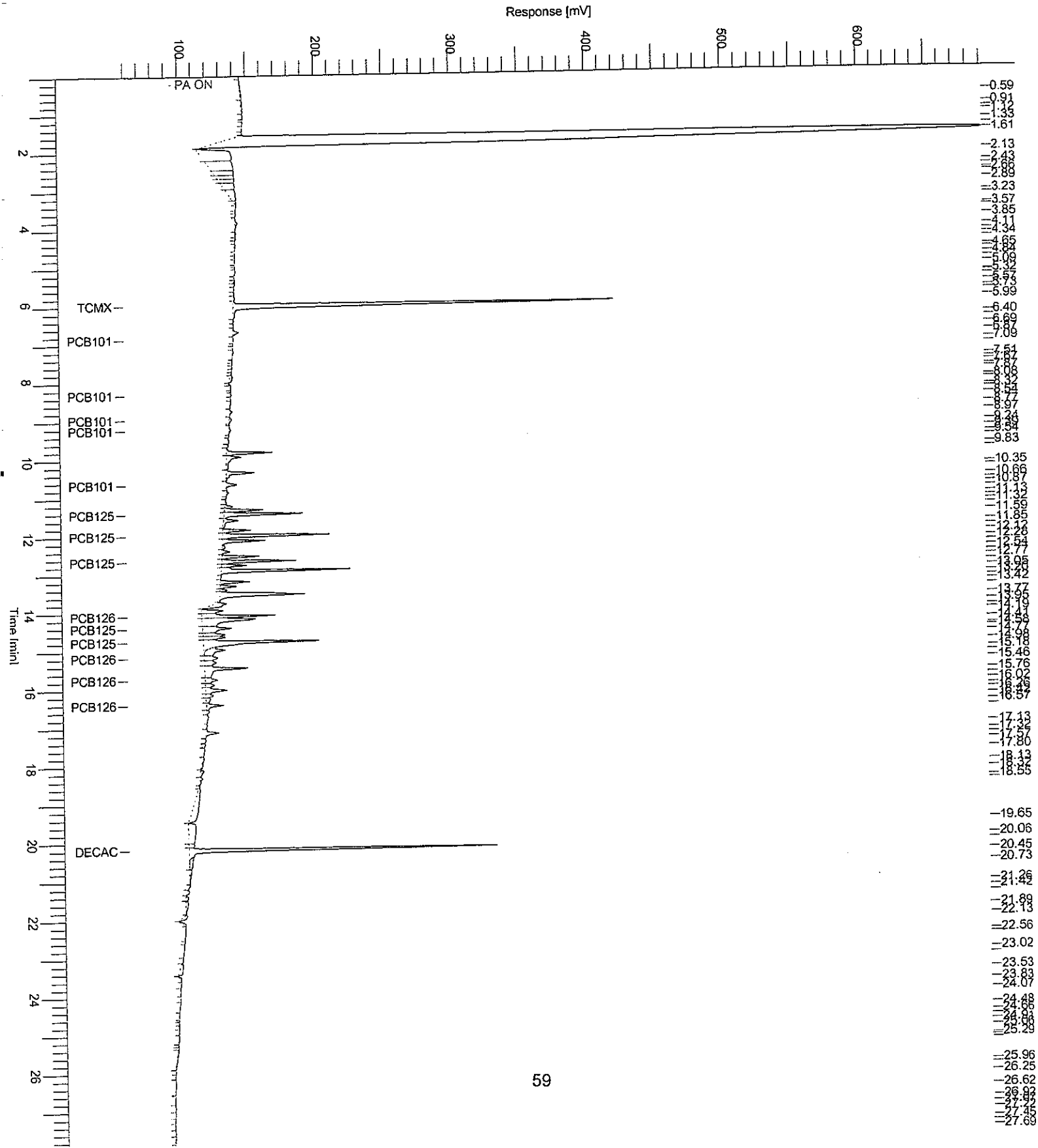


GC 06 Rtx-5

nple Name : qc267657,95361,ms
Name : g:\gc06\chb\285b020.raw
e : 10/12/04 10:01:01 AM
thod : gc06fsa1ul
rt Time : 0.00 min
ale Factor: 1.0

Sample #: 95361

Time of Injection: 10/12/04 4:52:49 AM
End Time : 27.88 min
Low Point : 59.21 mV
High Point : 691.68 mV
Plot Offset: 59.21 mV
Plot Scale: 632.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267657,95361,ms
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 10/12/04 10:50:40 AM
Data Acquisition Time : 10/12/04 4:52:49 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\285a020p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	733538.33	54.09	0.6693	1	36.20	7.24
Aroclor-1016	11.683	75330.18	44.34	0.6693	1	29.68	5.94
Aroclor-1254	14.267	808682.11	0.81	0.6693	1	0.54	0.11
Aroclor-1260	14.719	148029.80	50.22	0.6693	1	33.61	6.72
Decachlorobiphenyl	21.027	551264.79	59.20	0.6693	1	39.63	7.93
		2316845.22	208.66			139.66	27.93

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	0.6693	1	0.00	0.00
PCB1016#2	9.074	19920.49	34.55	0.6693	1	23.13	4.63
PCB1016#3	10.802	1976.80	7.28	0.6693	1	4.87	0.97
PCB1016#4	11.267	3900.47	19.39	0.6693	1	12.98	2.60
PCB1016#5	11.683	49532.41	153.13	0.6693	1	102.50	20.50
		75330.18	214.36			143.48	28.70

PA
10/12/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.643	123461.53	241.74	0.6693	1	161.81	32.36
PCB1254#2	13.973	121569.67	224.72	0.6693	1	150.42	30.08
PCB1254#3	14.267	210411.67	222.94	0.6693	1	149.22	29.84
PCB1254#4	15.403	162676.56	235.90	0.6693	1	157.90	31.58
PCB1254#5	16.084	190562.68	201.34	0.6693	1	134.76	26.95
		808682.11	1126.64			754.11	150.82

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.719	65088.91	123.06	0.6693	1	82.37	16.47
PCB1260#2	15.702	38363.49	114.52	0.6693	1	76.65	15.33
PCB1260#3	16.349	7587.40	14.85	0.6693	1	9.94	1.99
PCB1260#4	16.956	9642.53	22.03	0.6693	1	14.74	2.95
PCB1260#5	17.703	27347.48	24.10	0.6693	1	16.13	3.23
		148029.80	298.55			199.83	39.97

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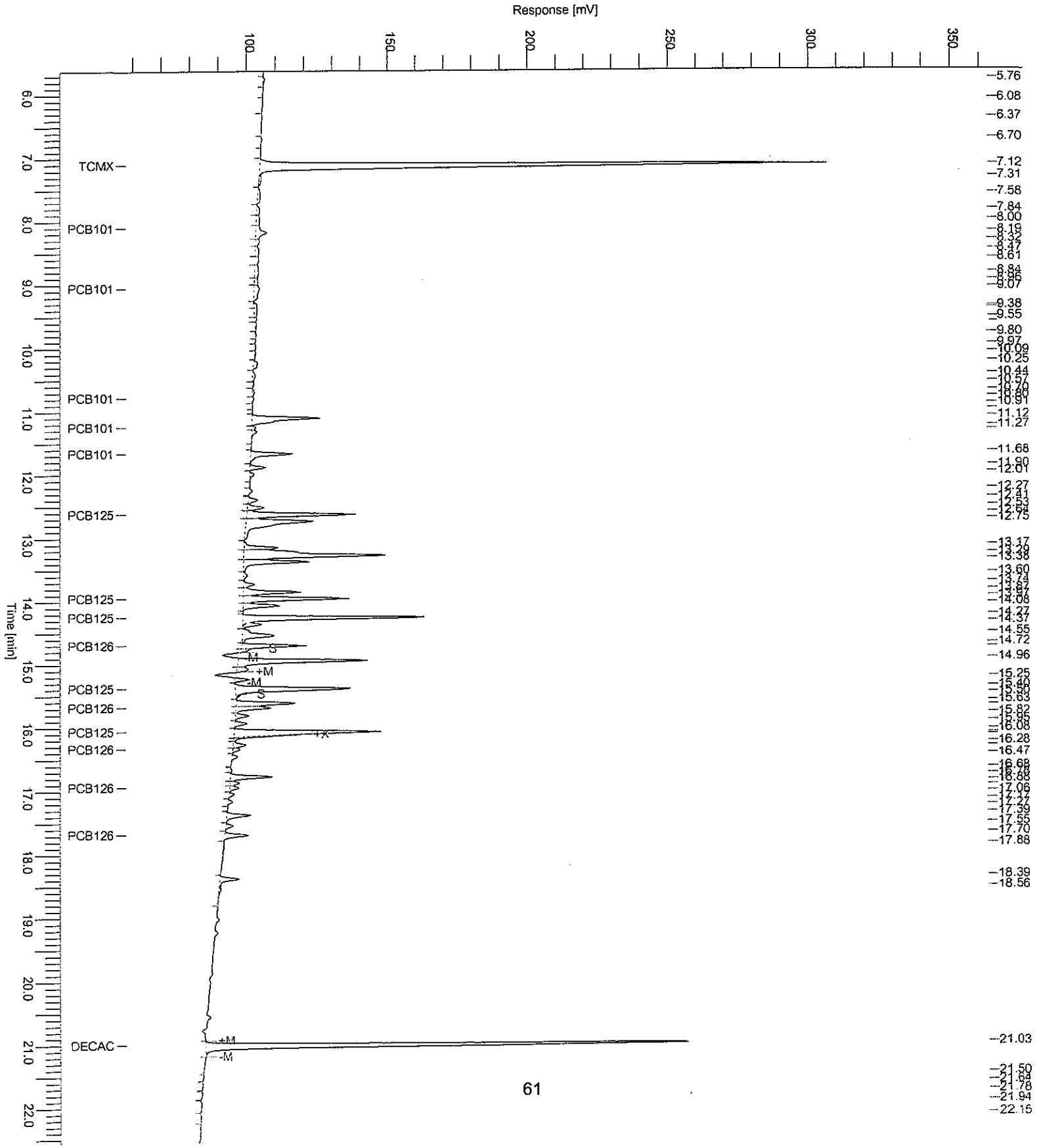
Report stored in ASCII file: G:\gc06\cha\285a020p.TX0

GC 06 Rtx-CLPesticides

Sample Name : qc267657,95361,ms Sample #: 95361 Page 1 of 1
FileName : g:\gc06\cha\285a020.raw
Date : 10/12/04 10:50:47 AM
Method : Time of Injection: 10/12/04 4:52:49 AM
Start Time : 5.63 min End Time : 22.56 min Low Point : 57.50 mV High Point : 362.96 mV
Plot Offset: 57.50 mV Plot Scale: 305.5 mV



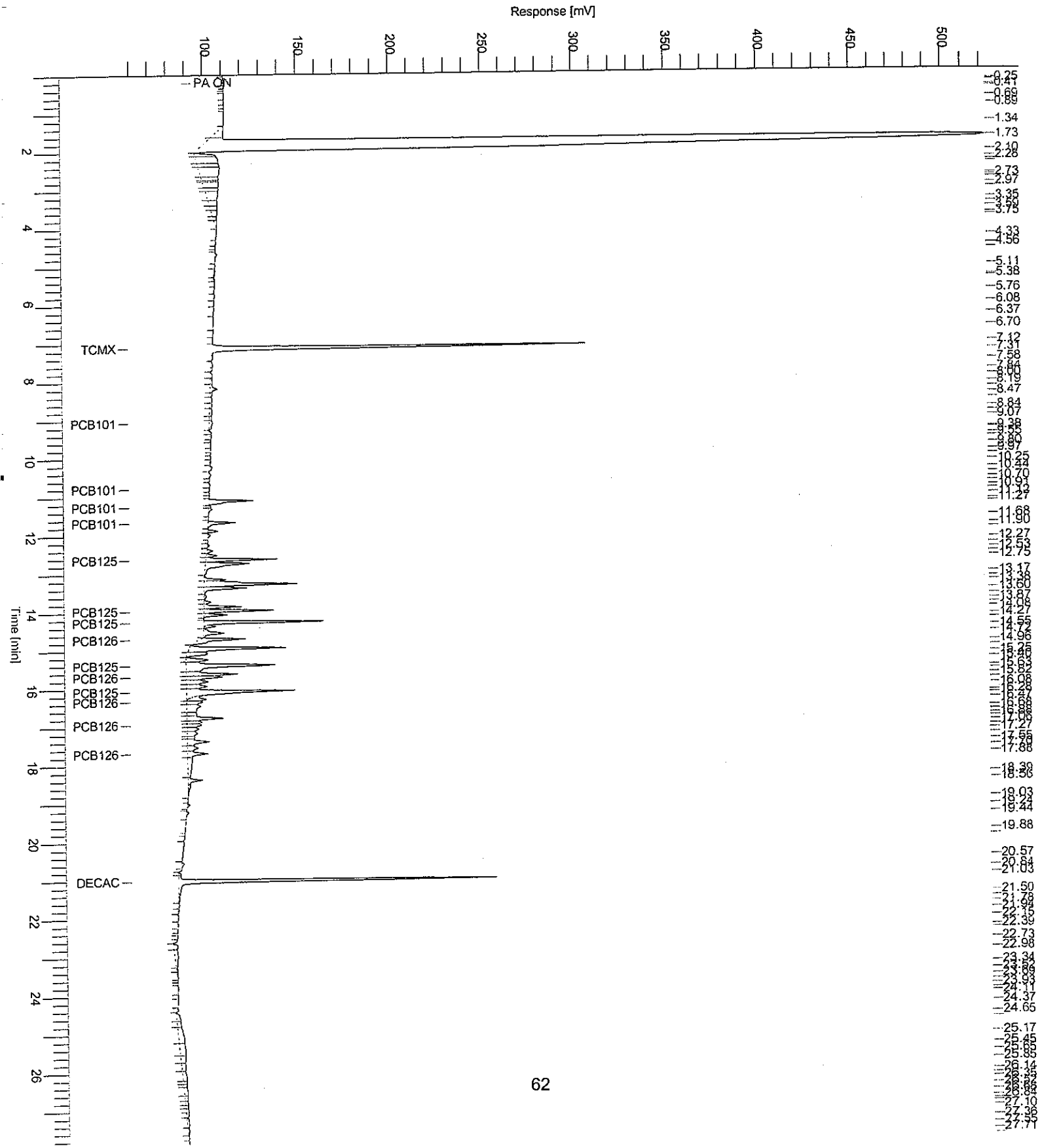
GC 06 Rtx-CLPesticides

ımple Name : qc267657,95361,ms
eName : g:\gc06\cha\285a020.raw
ıte : 10/12/04 10:02:13 AM
ethod : gc06fsa1ul
art Time : 0.00 min
:ale Factor: 1.0

Sample #: 95361

Page 1 of 1

Time of Injection: 10/12/04 4:52:49 AM
End Time : 27.88 min
Low Point : 58.67 mV
High Point : 523.36 mV
Plot Offset: 58.67 mV
Plot Scale: 464.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267658,95361,msd
Instrument Name : gc06
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 10/12/04 11:12:49 AM
Data Acquisition Time : 10/12/04 5:26:02 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\285b021p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1137897.16	57.52	0.6645	1	38.22	7.64
Aroclor-1016	10.661	46272.19	13.04	0.6645	1	8.67	1.73
Aroclor-1254	11.987	897977.10	0.90	0.6645	1	0.60	0.12
Aroclor-1260	14.093	177966.36	38.78	0.6645	1	25.77	5.15
Decachlorobiphenyl	20.187	659363.39	50.47	0.6645	1	33.54	6.71
		2919476.21	160.71			106.79	21.36

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.871	2334.87	5.31	0.6645	1	3.53	0.71
PCB1016#2	8.324	2641.41	5.10	0.6645	1	3.39	0.68
PCB1016#3	8.970	7027.36	4.73	0.6645	1	3.14	0.63
PCB1016#4	9.241	6118.05	9.90	0.6645	1	6.58	1.32
PCB1016#5	10.661	28150.50	57.81	0.6645	1	38.41	7.68
		46272.19	82.85			55.05	11.01

PA 10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	0.6645	1	0.00	0.00
PCB1260#2	14.093	122662.66	126.70	0.6645	1	84.19	16.84
PCB1260#3	15.182	10713.38	15.95	0.6645	1	10.60	2.12
PCB1260#4	15.757	14450.68	23.50	0.6645	1	15.62	3.12
PCB1260#5	16.417	30139.65	19.94	0.6645	1	13.25	2.65
		177966.36	186.09			123.65	24.73

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.427	188928.64	238.22	0.6645	1	158.29	31.66
PCB1254#2	11.987	262260.39	232.33	0.6645	1	154.37	30.87
PCB1254#3	12.667	163314.50	226.77	0.6645	1	150.68	30.14
PCB1254#4	14.414	33076.81	155.65	0.6645	1	103.42	20.68
PCB1254#5	14.773	250396.76	212.33	0.6645	1	141.08	28.22
		897977.10	1065.30			707.84	141.57

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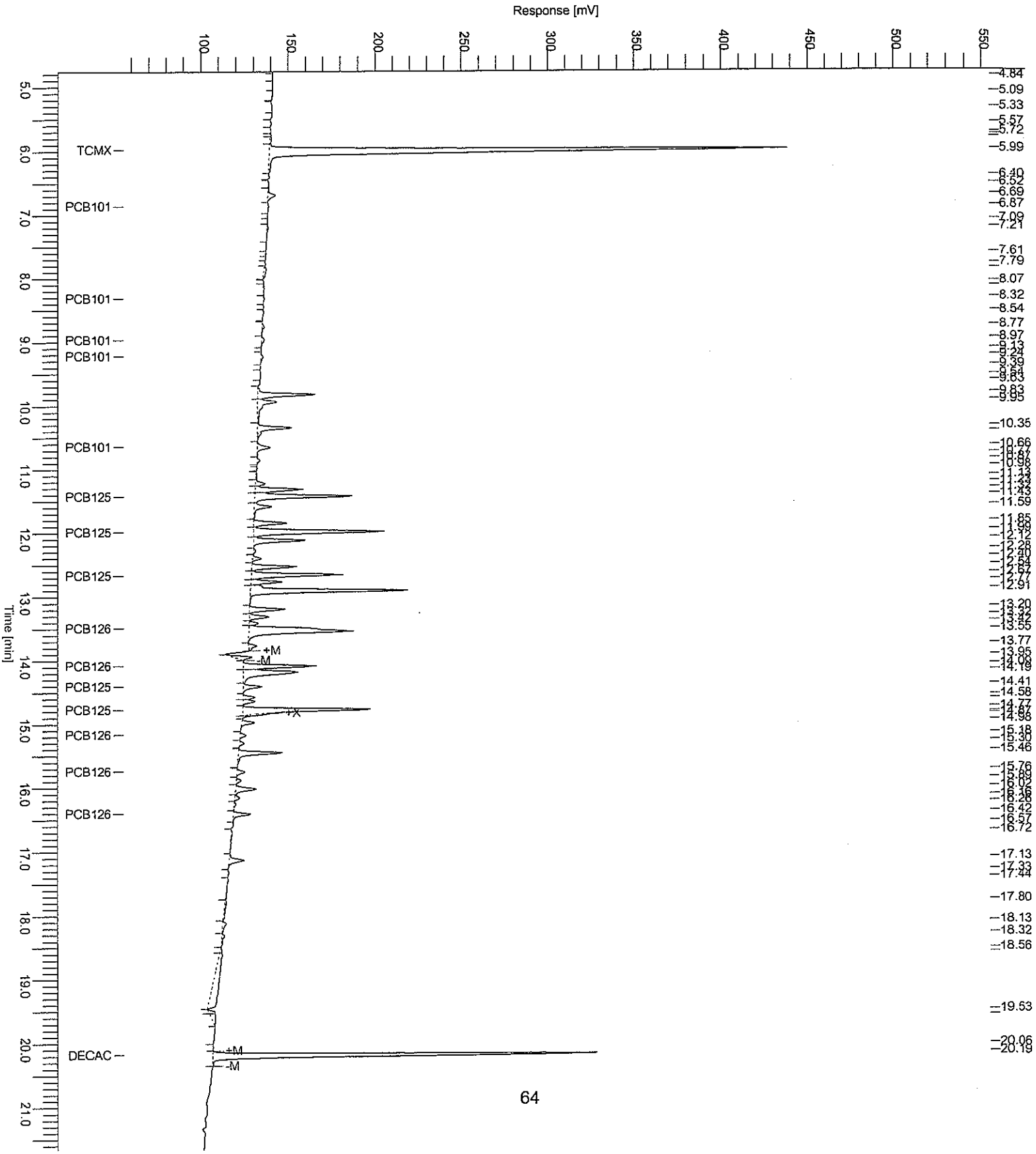
GC 06 Rtx-5

Sample Name : qc267658,95361,msd Sample #: 95361 Page 1 of 1
FileName : g:\gc06\chb\285b021.raw
Date : 10/12/04 11:12:55 AM
Method : Time of Injection: 10/12/04 5:26:02 AM
Start Time : 4.76 min End Time : 21.67 min Low Point : 55.39 mV High Point : 554.70 mV
Plot Offset: 55.39 mV Plot Scale: 499.3 mV



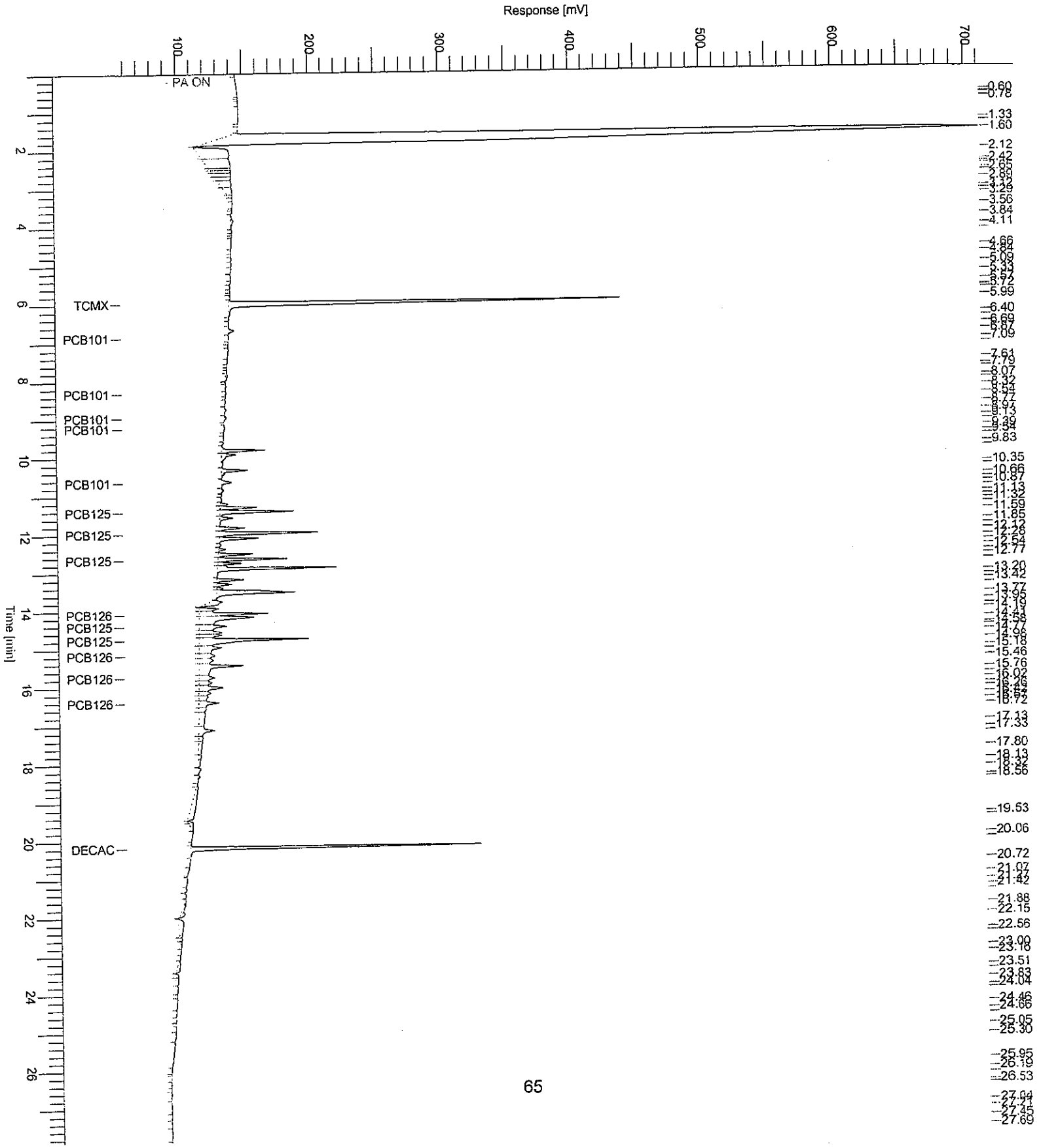
GC 06 Rtx-5

ample Name : qc267658,95361,msd
leName : g:\gc06\chb\285b021.raw
ate : 10/12/04 10:01:08 AM
ethod : gc06fsa1ul
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 95361

Page 1 of 1

Time of Injection: 10/12/04 5:26:02 AM
End Time : 27.88 min
Low Point : 57.03 mV
High Point : 712.07 mV
Plot Offset: 57.03 mV
Plot Scale: 655.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267658,95361,msd
Instrument Name : gc06
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 10/12/04 10:53:02 AM
Data Acquisition Time : 10/12/04 5:26:02 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\285a021p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	788116.21	58.11	0.6645	1	38.61	7.72
Aroclor-1016	11.683	57800.07	34.02	0.6645	1	22.61	4.52
Aroclor-1254	14.280	809354.68	0.81	0.6645	1	0.54	0.11
Aroclor-1260	14.720	146554.00	49.72	0.6645	1	33.04	6.61
Decachlorobiphenyl	21.027	547558.49	58.80	0.6645	1	39.07	7.81
		2349383.46	201.47			133.86	26.77

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	0.6645	1	0.00	0.00
PCB1016#2	9.072	3298.77	5.72	0.6645	1	3.80	0.76
PCB1016#3	10.802	1822.58	6.71	0.6645	1	4.46	0.89
PCB1016#4	11.263	3481.89	17.31	0.6645	1	11.50	2.30
PCB1016#5	11.683	49196.82	152.10	0.6645	1	101.06	20.21
		57800.07	181.84			120.83	24.17

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.643	118637.49	232.30	0.6645	1	154.35	30.87
PCB1254#2	13.973	118043.84	218.21	0.6645	1	144.99	29.00
PCB1254#3	14.280	203016.19	215.10	0.6645	1	142.93	28.59
PCB1254#4	15.404	160896.92	233.32	0.6645	1	155.03	31.01
PCB1254#5	16.085	208760.24	220.56	0.6645	1	146.55	29.31
		809354.68	1119.48			743.84	148.77

PA
10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.720	67990.69	128.55	0.6645	1	85.42	17.08
PCB1260#2	15.702	37232.67	111.14	0.6645	1	73.85	14.77
PCB1260#3	16.348	7425.04	14.53	0.6645	1	9.65	1.93
PCB1260#4	16.956	8995.17	20.55	0.6645	1	13.65	2.73
PCB1260#5	17.704	24910.43	21.95	0.6645	1	14.58	2.92
		146554.00	296.72			197.16	39.43

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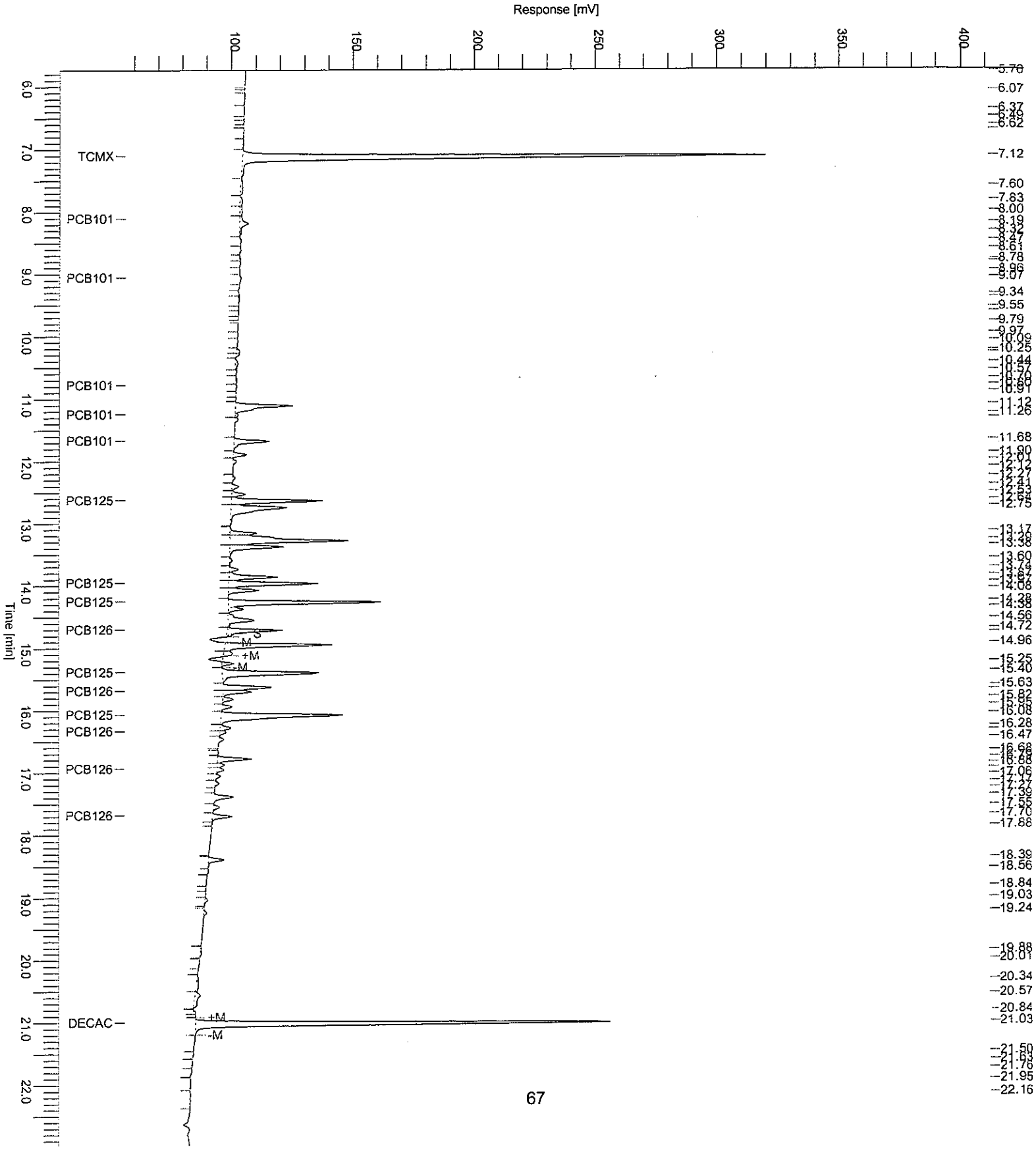
Report stored in ASCII file: G:\gc06\cha\285a021p.TX0

GC 06 Rtx-CLPesticides

Sample Name : qc267658,95361,msd Sample #: 95361 Page 1 of 1
FileName : g:\gc06\cha\285a021.raw
Date : 10/12/04 10:53:08 AM
Method : Time of Injection: 10/12/04 5:26:02 AM
Start Time : 5.73 min End Time : 22.97 min Low Point : 56.37 mV High Point : 411.37 mV
Plot Offset: 56.37 mV Plot Scale: 355.0 mV

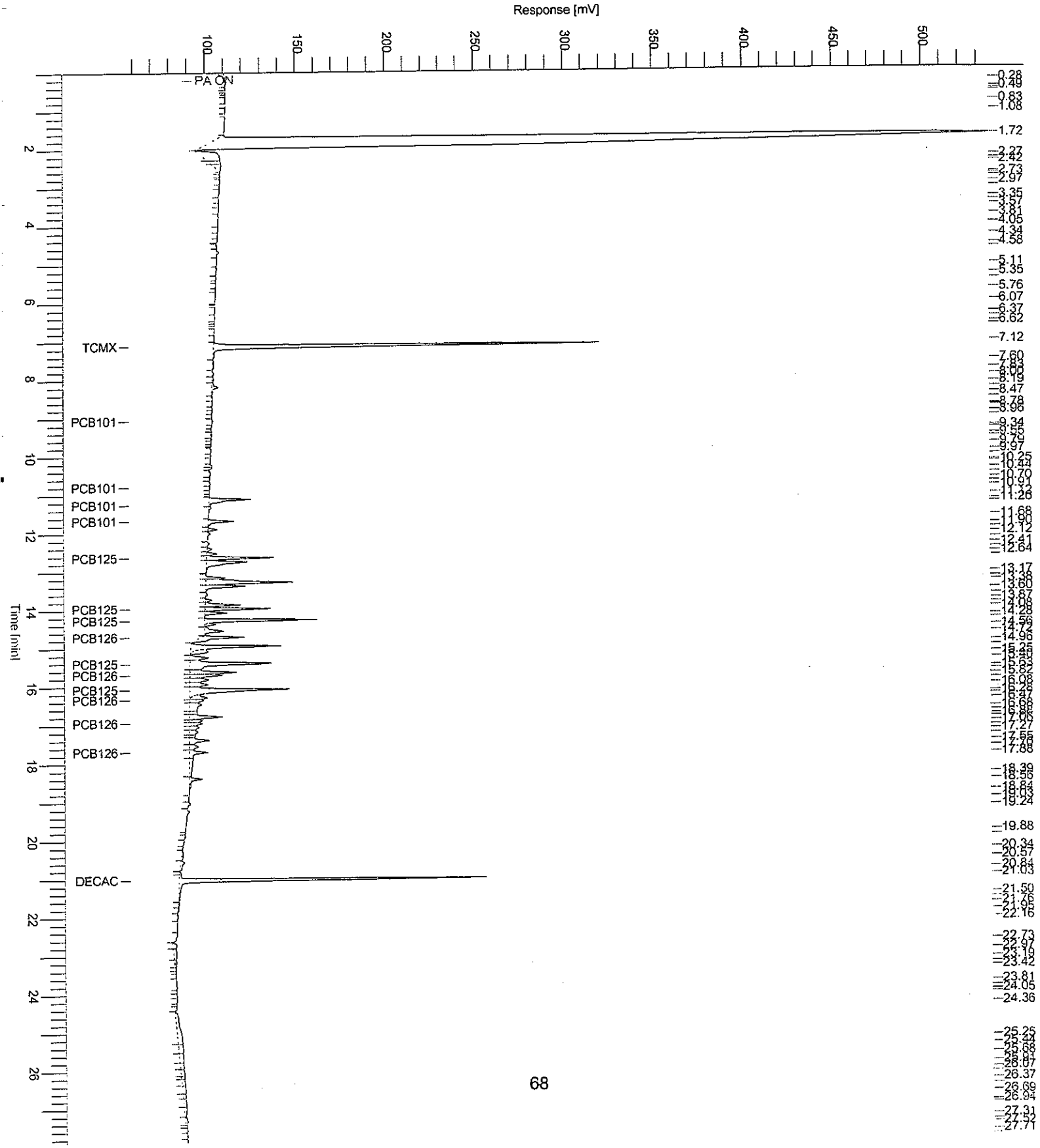


GC 06 Rtx-CLPesticides

ample Name : qc267658,95361,msd
leName : g:\gc06\cha\285a021.raw
ate : 10/12/04 10:02:21 AM
ethod : gc06fsa1ul
tart Time : 0.00 min End Time : 27.88 min
cale Factor: 1.0 Plot Offset: 57.57 mV

Sample #: 95361 Page 1 of 1

Time of Injection: 10/12/04 5:26:02 AM
Low Point : 57.57 mV High Point : 537.24 mV
Plot Scale: 479.7 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204411491019
Filename : 285_019
IDF : 1.0

Samplenum: 175141-001
Matrix : Soil
Batchnum : 95361

Cident : BB4EX100[0.5]
Acctnum : TREADWELL (SES)
Injected : 12-OCT-2004 04:19
Units : ug/Kg

Prep: 14.86 g --> 10.0 ml = 0.6729 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result		RPD	RL	B=285_012	Flags
Aroclor-1016	B	204405784001	ND				9.7		
Aroclor-1016 Peak # 1	B	204405784001		ND	ND				
Aroclor-1016 Peak # 2	B	204405784001		ND	6.52				
Aroclor-1016 Peak # 3	B	204405784001		ND	ND				
Aroclor-1016 Peak # 4.....	B	204405784001		2.22	ND				
Aroclor-1016 Peak # 5.....	B	204405784001		1.81	1.78	2%			
Aroclor-1221	B		ND				19		
Aroclor-1232	B		ND				9.7		
Aroclor-1242	B		ND				9.7		
Aroclor-1248	B		ND				9.7		
Aroclor-1254	B	204409828001	ND				9.7		?v
Aroclor-1254 Peak # 1.....	B	204409828001		1.15	2.14	60%			
Aroclor-1254 Peak # 2.....	B	204409828001		3.31	2.50	28%			
Aroclor-1254 Peak # 3.....	B	204409828001		1.38	ND				
Aroclor-1254 Peak # 4	B	204409828001		ND	7.47				
Aroclor-1254 Peak # 5	B	204409828001		ND	4.06				
Aroclor-1260	B	204405784001	21	0.80		185%	9.7		x
Aroclor-1260 Peak # 1	B	204405784001		ND	ND				
Aroclor-1260 Peak # 2.....	B	204405784001		14.36	ND				
Aroclor-1260 Peak # 3.....	B	204405784001		88.84	1.49	193%			
Aroclor-1260 Peak # 4	B	204405784001		ND	1.50				
Aroclor-1260 Peak # 5	B	204405784001		ND	1.00				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	204405784001	33.65	34.28	102	65-135	
Decachlorobiphenyl	B	204405784001	33.65	33.22	99	65-135	

?=missing v=ICV out x=false positive

Analyst: _____ Date: 10/12/04 Reviewer: _____ Date: _____

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-001,95361,mss
Instrument Name : gc06
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 10/12/04 10:00:49 AM
Data Acquisition Time : 10/12/04 4:19:37 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHb\285b019.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1007765.94	50.94	0.6729	1	34.28	6.86
Aroclor-1016	9.179	3348.50	0.94	0.6729	1	0.64	0.13
Aroclor-1254	11.984	8378.24	0.01	0.6729	1	0.01	0.00
Aroclor-1260	14.088	109339.81	23.82	0.6729	1	16.03	3.21
Decachlorobiphenyl	20.187	644844.23	49.36	0.6729	1	33.22	6.64
		1773676.73	125.08			84.17	16.83

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.857	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#2	8.315	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#3	8.967	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#4	9.179	2036.35	3.29	0.6729	1	2.22	0.44
PCB1016#5	10.667	1312.15	2.69	0.6729	1	1.81	0.36
		3348.50	5.99			4.03	0.81

PA 10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#2	14.088	20653.52	21.33	0.6729	1	14.36	2.87
PCB1260#3	15.191	88686.29	132.02	0.6729	1	88.84	17.77
PCB1260#4	15.743	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#5	16.402	0.00	0.00	0.6729	1	0.00	0.00
		109339.81	153.35			103.20	20.64

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.419	1349.48	1.70	0.6729	1	1.15	0.23
PCB1254#2	11.984	5555.58	4.92	0.6729	1	3.31	0.66
PCB1254#3	12.667	1473.19	2.05	0.6729	1	1.38	0.28
PCB1254#4	14.405	0.00	0.00	0.6729	1	0.00	0.00
PCB1254#5	14.773	0.00	0.00	0.6729	1	0.00	0.00
		8378.24	8.67			5.83	1.17

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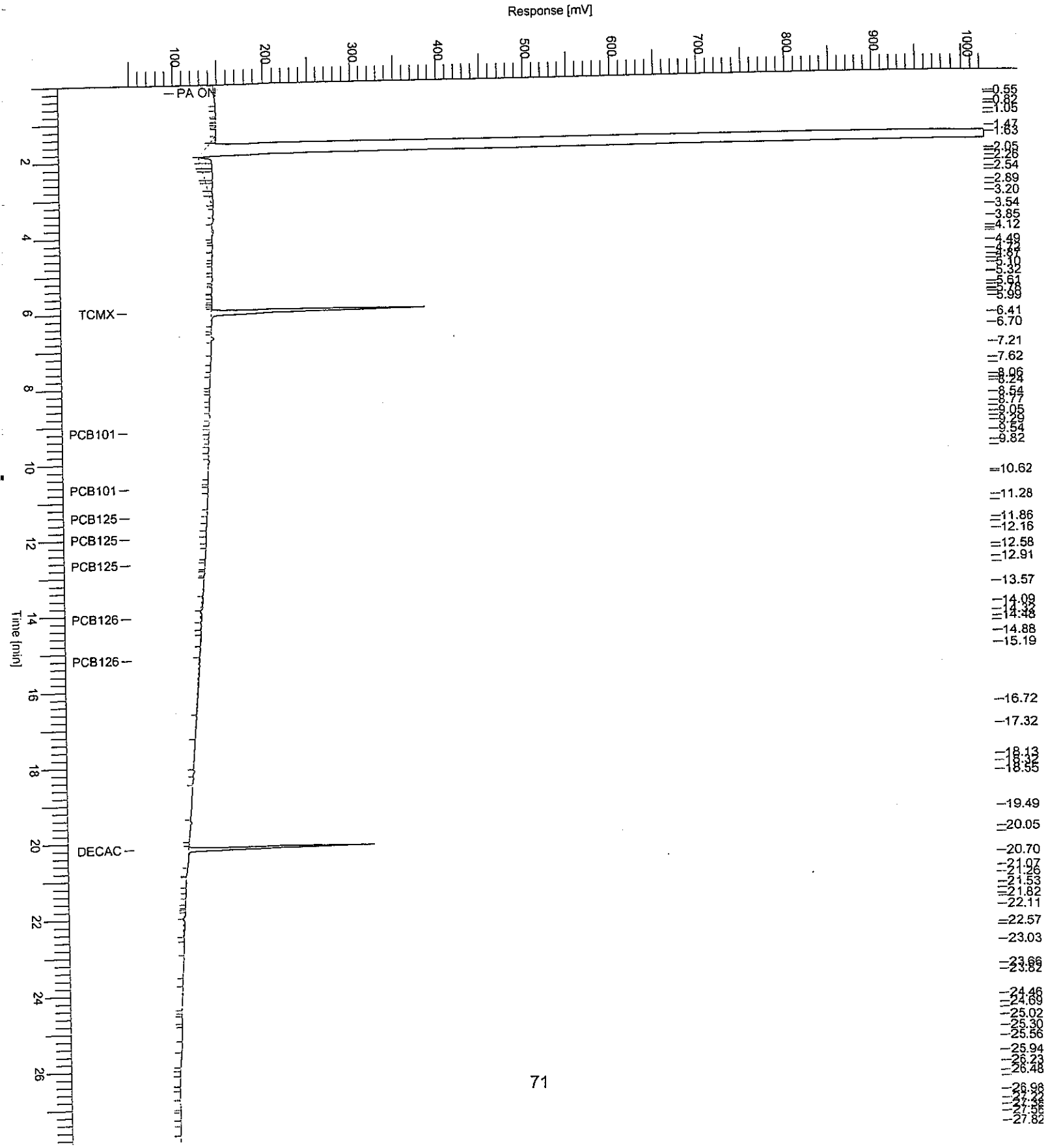
Report stored in ASCII file: G:\gc06\CHb\285b019.TX0

GC 06 Rtx-5

mple Name : 175141-001,95361,mss
eName : g:\gc06\chb\285b019.raw
te : 10/12/04 10:00:53 AM
thod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 95361

Time of Injection: 10/12/04 4:19:37 AM
End Time : 27.88 min
Low Point : 44.30 mV
High Point : 1024.00 mV
Plot Offset: 44.30 mV
Plot Scale: 979.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-001,95361,mss
Instrument Name : gc06
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 10/12/04 10:02:01 AM
Data Acquisition Time : 10/12/04 4:19:37 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHa\285a019.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	693353.52	51.12	0.6729	1	34.40	6.88
Aroclor-1016	9.073	6444.28	3.79	0.6729	1	2.55	0.51
Aroclor-1254	15.392	16994.03	0.02	0.6729	1	0.01	0.00
Aroclor-1260	17.704	3787.31	1.28	0.6729	1	0.86	0.17
Decachlorobiphenyl	21.027	529065.26	56.82	0.6729	1	38.23	7.65
		1249644.40	113.04			76.07	15.21

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#2	9.073	5590.13	9.70	0.6729	1	6.52	1.30
PCB1016#3	10.782	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#4	11.249	0.00	0.00	0.6729	1	0.00	0.00
PCB1016#5	11.659	854.14	2.64	0.6729	1	1.78	0.36
		6444.28	12.34			8.30	1.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.630	1621.58	3.18	0.6729	1	2.14	0.43
PCB1254#2	13.908	2012.72	3.72	0.6729	1	2.50	0.50
PCB1254#3	14.253	0.00	0.00	0.6729	1	0.00	0.00
PCB1254#4	15.392	7654.16	11.10	0.6729	1	7.47	1.49
PCB1254#5	16.112	5705.58	6.03	0.6729	1	4.06	0.81
		16994.03	24.02			16.17	3.23

FA
10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.703	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#2	15.687	0.00	0.00	0.6729	1	0.00	0.00
PCB1260#3	16.367	1133.83	2.22	0.6729	1	1.49	0.30
PCB1260#4	16.957	972.48	2.22	0.6729	1	1.50	0.30
PCB1260#5	17.704	1681.01	1.48	0.6729	1	1.00	0.20
		3787.31	5.92			3.98	0.80

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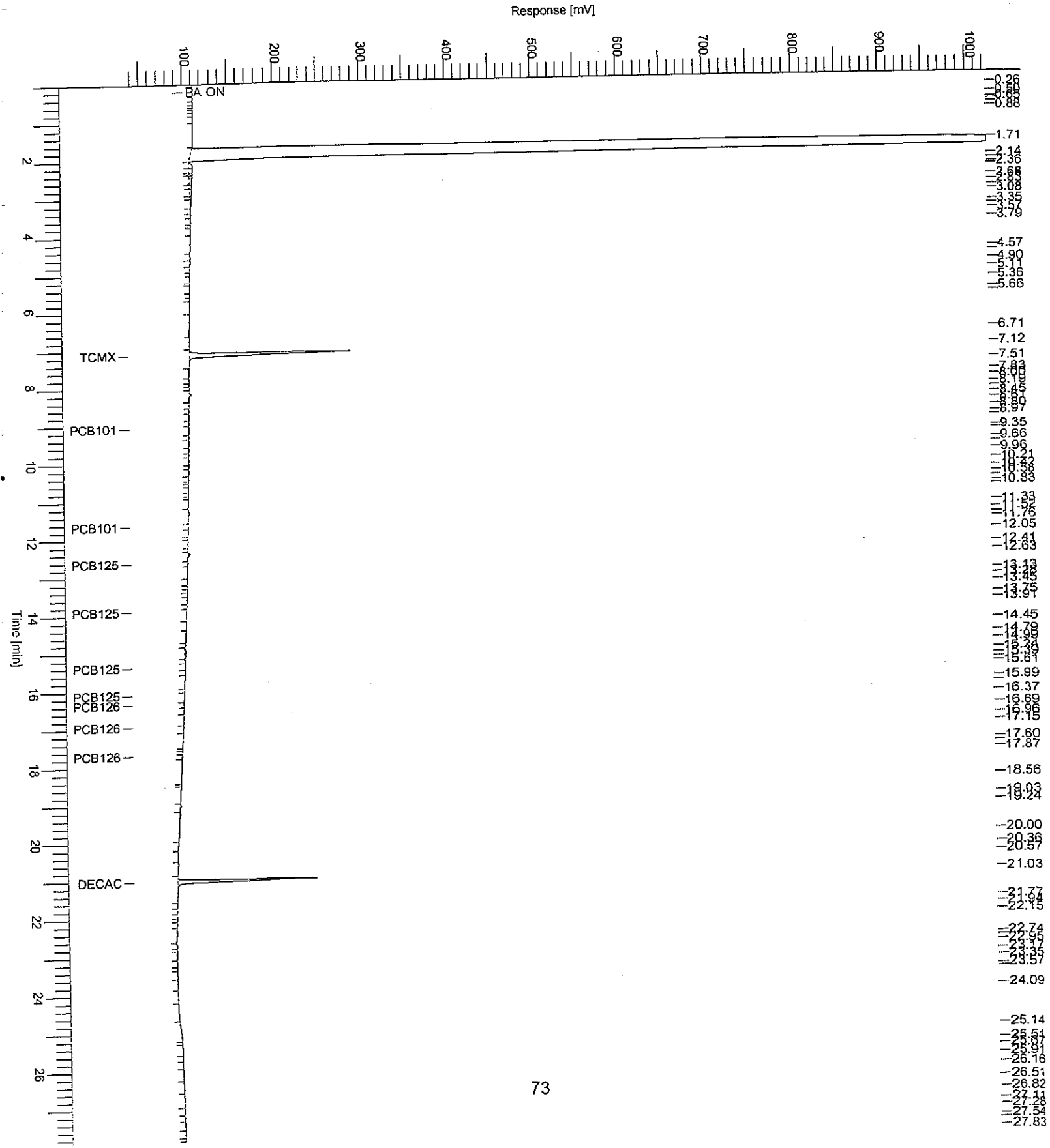
Report stored in ASCII file: G:\gc06\CHa\285a019.TX0

GC 06 Rtx-CLPesticides

mple Name : 175141-001,95361,mss
eName : g:\gc06\cha\285a019.raw
ıte : 10/12/04 10:02:06 AM
ethod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 95361

Time of Injection: 10/12/04 4:19:37 AM
End Time : 27.88 min
Low Point : 35.47 mV
High Point : 1024.00 mV
Plot Offset: 35.47 mV
Plot Scale: 988.5 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

Turbochrom Method File G:\gc06\files\5460a281.mth
Printed by : analyst on: 10/8/04 11:34:41 AM
Created by : analyst on: 10/8/04 10:56:22 AM
Edited by : analyst on: 10/8/04 11:34:33 AM
Number of Times Edited : 12
Number of Times Calibrated : 190
Description: gc06

/mcm 10/8/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 7.104 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	284103.92	76154.87	----------	----------	1
4	50.0000	613422.83	157188.43	----------	----------	1
5	100.0000	1242752.80	322684.00	----------	----------	1
6	150.0000	2118426.16	556519.96	----------	----------	1
7	200.0000	2543634.54	674276.94	----------	----------	1
1	2.0000	26834.60	6537.12	----------	----------	1
2	5.0000	78875.51	20277.23	----------	----------	1

10/8/04

Average Calibration Factor = 13562.085152 (%RSD = 9.19)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 8.105 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3111.06	749.26	----------	----------	1
2	25.0000	8860.35	2335.09	----------	----------	1
3	100.0000	34653.65	9084.02	----------	----------	1
4	250.0000	75539.21	18768.28	----------	----------	1
5	500.0000	153711.51	38136.33	----------	----------	1
6	750.0000	261362.43	66314.03	----------	----------	1
7	1000.0000	313198.15	79595.32	----------	----------	1

Average Calibration Factor = 326.188258 (%RSD = 6.89)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	15387.47	3979.65	----------	----------	1
2	25.0000	49760.16	12803.33	----------	----------	1
3	100.0000	182178.13	49313.20	----------	----------	1
4	250.0000	380920.39	100390.69	----------	----------	1
5	500.0000	789414.87	208147.79	----------	----------	1
6	750.0000	1355897.35	364120.53	----------	----------	1
7	1000.0000	1630264.06	439406.25	----------	----------	1

Average Calibration Factor = 1698.796129 (%RSD = 10.40)

PCB1016#2
Component Type : Single Peak Component
Retention Time : 9.055 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5546.44	1190.70	----------	----------	1
2	25.0000	19001.85	3897.53	----------	----------	1
3	100.0000	61703.46	14137.76	----------	----------	1
4	250.0000	126854.50	28715.81	----------	----------	1
5	500.0000	254955.64	56802.84	----------	----------	1
6	750.0000	430665.90	95441.41	----------	----------	1
7	1000.0000	512515.34	113041.51	----------	----------	1

Average Calibration Factor = 576.545469 (%RSD = 15.69)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 10.783 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2277.51	698.98	----------	----------	1
2	25.0000	7214.86	2252.11	----------	----------	1
3	100.0000	28660.24	8951.18	----------	----------	1
4	250.0000	61225.77	18406.05	----------	----------	1
5	500.0000	131397.89	40034.04	----------	----------	1
6	750.0000	231121.92	72740.61	----------	----------	1
7	1000.0000	281446.82	89625.78	----------	----------	1

Average Calibration Factor = 271.465082 (%RSD = 10.27)

PCB1016#4

Component Type : Single Peak Component
Retention Time : 11.250 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1830.48	516.03	----------	----------	1
2	25.0000	5516.29	1457.94	----------	----------	1
3	100.0000	21174.94	5817.08	----------	----------	1
4	250.0000	44827.19	11932.19	----------	----------	1
5	500.0000	94994.59	25521.32	----------	----------	1
6	750.0000	166694.19	44552.66	----------	----------	1
7	1000.0000	200956.84	54325.52	----------	----------	1

77

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Average Calibration Factor = 201.137487 (%RSD = 8.77)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 11.666 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2621.98	824.68	----------	----------	1
2	25.0000	9166.81	2860.65	----------	----------	1
3	100.0000	35985.85	11323.15	----------	----------	1
4	250.0000	72473.72	22568.36	----------	----------	1
5	500.0000	154355.25	47653.27	----------	----------	1
6	750.0000	266052.91	85071.83	----------	----------	1
7	1000.0000	322146.91	102818.11	----------	----------	1

Average Calibration Factor = 323.459834 (%RSD = 12.15)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 12.989 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	133424.97	41068.35	----------	----------	1

Average Calibration Factor = 533.699862 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 13.653 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	251511.22	55509.29	----------	----------	1

Average Calibration Factor = 1006.044882 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 14.645 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	243810.30	79933.33	----------	----------	1

Average Calibration Factor = 975.241202 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.703 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3716.01	1326.84	----------	----------	1
2	25.0000	14996.69	4812.39	----------	----------	1
3	100.0000	62189.99	19489.27	----------	----------	1
4	250.0000	121333.87	37202.78	----------	----------	1
5	500.0000	255835.10	80545.57	----------	----------	1
6	750.0000	438742.41	138767.26	----------	----------	1
7	1000.0000	526977.30	169313.44	----------	----------	1

Average Calibration Factor = 528.905907 (%RSD = 16.15)

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

PCB1254#4
Component Type : Single Peak Component
Retention Time : 15.345 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	185014.55	56299.32	----------	----------	1

Average Calibration Factor = 740.058216 (%RSD = 0.00)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 15.688 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2429.02	754.52	----------	----------	1
2	25.0000	9355.04	2659.83	----------	----------	1
3	100.0000	36313.69	10635.45	----------	----------	1
4	250.0000	72092.01	20660.53	----------	----------	1
5	500.0000	159838.64	46534.42	----------	----------	1
6	750.0000	296493.37	86663.18	----------	----------	1
7	1000.0000	361388.35	107199.87	----------	----------	1

Average Calibration Factor = 334.999841 (%RSD = 16.15)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 16.337 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4452.49	1483.28	----------	----------	1
2	25.0000	14036.59	4665.49	----------	----------	1
3	100.0000	56401.99	18047.22	----------	----------	1
4	250.0000	112676.14	34985.24	----------	----------	1
5	500.0000	242214.01	75785.59	----------	----------	1
6	750.0000	424186.64	132071.33	----------	----------	1
7	1000.0000	506248.08	154754.64	----------	----------	1

Average Calibration Factor = 511.099293 (%RSD = 10.42)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.454 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	247684.24	60683.53	----------	----------	1

Average Calibration Factor = 990.736949 (%RSD = 0.00)

PCB1260#4
Component Type : Single Peak Component
Retention Time : 16.939 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Calibration Level Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3201.57	1075.51	----------	----------	1
2	25.0000	11545.47	3680.29	----------	----------	1
3	100.0000	50443.14	15170.69	----------	----------	1
4	250.0000	95629.66	29354.35	----------	----------	1
5	500.0000	210697.94	63398.11	----------	----------	1
6	750.0000	381780.81	115718.99	----------	----------	1
7	1000.0000	464738.95	143561.59	----------	----------	1

Average Calibration Factor = 437.728810 (%RSD = 15.60)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 17.684 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	10222.62	3035.95	----------	----------	1
2	25.0000	31638.54	9922.40	----------	----------	1
3	100.0000	127535.72	38697.89	----------	----------	1
4	250.0000	244194.50	47692.35	----------	----------	1
5	500.0000	527484.18	100513.96	----------	----------	1
6	750.0000	929442.83	178951.59	----------	----------	1
7	1000.0000	1110085.11	344614.52	----------	----------	1

Average Calibration Factor = 1134.892761 (%RSD = 10.93)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	24021.71	7676.10	----------	----------	1
2	25.0000	81572.31	25740.40	----------	----------	1
3	100.0000	332884.53	102040.52	----------	----------	1
4	250.0000	645926.18	169895.25	----------	----------	1
5	500.0000	1396069.87	366777.66	----------	----------	1
6	750.0000	2470646.06	652172.35	----------	----------	1
7	1000.0000	2969437.79	919444.07	----------	----------	1

Average Calibration Factor = 2947.626613 (%RSD = 12.54)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.001 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	220176.18	68537.65	----------	----------	1
4	50.0000	405017.26	125053.57	----------	----------	1
5	100.0000	843609.48	259997.11	----------	----------	1
1	2.0000	16535.32	5202.60	----------	----------	1
2	5.0000	56038.79	17669.48	----------	----------	1
6	150.0000	1436982.42	439477.38	----------	----------	1
7	200.0000	1716590.21	526001.05	----------	----------	1

Average Calibration Factor = 9311.929057 (%RSD = 14.14)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
284103.92	76154.87	20.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
613422.83	157188.43	50.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1242752.80	322684.00	100.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2118426.16	556519.96	150.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2543634.54	674276.94	200.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26834.60	6537.12	2.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78875.51	20277.23	5.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3111.06	749.26	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8860.35	2335.09	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34653.65	9084.02	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75539.21	18768.28	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153711.51	38136.33	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
261362.43	66314.03	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
313198.15	79595.32	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : Aroclor-1016

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15387.47	3979.65	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49760.16	12803.33	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182178.13	49313.20	100.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
380920.39	100390.69	250.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
789414.87	208147.79	500.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1355897.35	364120.53	750.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1630264.06	439406.25	1000.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5546.44	1190.70	10.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19001.85	3897.53	25.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61703.46	14137.76	100.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126854.50	28715.81	250.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
254955.64	56802.84	500.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
430665.90	95441.41	750.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
512515.34	113041.51	1000.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#3
Level : 1

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2277.51	698.98	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7214.86	2252.11	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28660.24	8951.18	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61225.77	18406.05	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
131397.89	40034.04	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
231121.92	72740.61	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
281446.82	89625.78	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1830.48	516.03	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5516.29	1457.94	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21174.94	5817.08	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44827.19	11932.19	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94994.59	25521.32	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
166694.19	44552.66	750.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
200956.84	54325.52	1000.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2621.98	824.68	10.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9166.81	2860.65	25.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35985.85	11323.15	100.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72473.72	22568.36	250.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154355.25	47653.27	500.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
266052.91	85071.83	750.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
322146.91	102818.11	1000.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133424.97	41068.35	250.0000	---------	---------	10/6/04	12:09:48 PM	G:\gc06\cha\279a030p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251511.22	55509.29	250.0000	---------	---------	10/6/04	12:09:48 PM	G:\gc06\cha\279a030p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
243810.30	79933.33	250.0000	---------	---------	10/6/04	12:09:48 PM	G:\gc06\cha\279a030p.rst

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3716.01	1326.84	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14996.69	4812.39	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62189.99	19489.27	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
121333.87	37202.78	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255835.10	80545.57	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
438742.41	138767.26	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
526977.30	169313.44	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185014.55	56299.32	250.0000	----------	----------	10/6/04	12:09:48 PM	G:\gc06\cha\279a030p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2429.02	754.52	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9355.04	2659.83	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36313.69	10635.45	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72092.01	20660.53	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159838.64	46534.42	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
296493.37	86663.18	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
361388.35	107199.87	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4452.49	1483.28	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14036.59	4665.49	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56401.99	18047.22	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112676.14	34985.24	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
242214.01	75785.59	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
424186.64	132071.33	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
506248.08	154754.64	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
247684.24	60683.53	250.0000	----------	----------	10/6/04	12:09:48 PM	G:\gc06\cha\279a030p.rst

Component : PCB1260#4
Level : 1

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3201.57	1075.51	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11545.47	3680.29	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50443.14	15170.69	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95629.66	29354.35	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
210697.94	63398.11	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
381780.81	115718.99	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
464738.95	143561.59	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1260#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10222.62	3035.95	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31638.54	9922.40	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127535.72	38697.89	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
244194.50	47692.35	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
527484.18	100513.96	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
929442.83	178951.59	750.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1110085.11	344614.52	1000.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24021.71	7676.10	10.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81572.31	25740.40	25.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
332884.53	102040.52	100.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
645926.18	169895.25	250.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1396069.87	366777.66	500.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2470646.06	652172.35	750.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2969437.79	919444.07	1000.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220176.18	68537.65	20.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
405017.26	125053.57	50.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
843609.48	259997.11	100.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 1

10/8/04 11:34:41 AM Method: G:\gc06\files\5460a281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16535.32	5202.60	2.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56038.79	17669.48	5.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1436982.42	439477.38	150.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1716590.21	526001.05	200.0000	---------	---------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Turbochrom Method File G:\gc06\files\5460b281.mth
Printed by : analyst on: 10/8/04 12:09:07 PM
Created by : analyst on: 10/8/04 10:58:50 AM
Edited by : analyst on: 10/8/04 12:09:04 PM
Number of Times Edited : 18
Number of Times Calibrated : 190
Description: gc 06

10/8/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 5.973 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	421454.79	112615.64	----------	----------	1
4	50.0000	889009.23	218399.31	----------	----------	1
5	100.0000	1761872.72	442878.19	----------	----------	1
1	2.0000	43474.71	10487.59	----------	----------	1
2	5.0000	116350.85	31202.04	----------	----------	1
6	150.0000	2955556.59	746452.63	----------	----------	1
7	200.0000	3457812.11	883802.51	----------	----------	1

Average Calibration Factor = 19781.707136 (%RSD = 11.78)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 6.855 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5860.75	1183.01	----------	----------	1
2	25.0000	12720.35	3165.01	----------	----------	1
3	100.0000	44502.25	11530.52	----------	----------	1
4	250.0000	92142.67	23031.85	----------	----------	1
5	500.0000	185813.15	47581.20	----------	----------	1
6	750.0000	323132.53	80701.30	----------	----------	1
7	1000.0000	365512.83	94958.74	----------	----------	1

Average Calibration Factor = 439.494989 (%RSD = 18.92)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 8.312 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5653.26	1617.78	----------	----------	1
2	25.0000	15238.08	4614.57	----------	----------	1
3	100.0000	57232.73	16950.69	----------	----------	1
4	250.0000	113519.82	33363.97	----------	----------	1
5	500.0000	229925.45	67795.64	----------	----------	1
6	750.0000	383696.98	113346.81	----------	----------	1
7	1000.0000	455910.60	135495.54	----------	----------	1

Average Calibration Factor = 518.373398 (%RSD = 12.43)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 8.968 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	15376.30	3227.74	----------	----------	1
2	25.0000	43015.34	9379.98	----------	----------	1
3	100.0000	163455.27	34528.31	----------	----------	1
4	250.0000	320003.70	67914.26	----------	----------	1
5	500.0000	673168.68	139728.29	----------	----------	1
6	750.0000	1135856.41	242103.74	----------	----------	1
7	1000.0000	1360590.09	284492.01	----------	----------	1

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Average Calibration Factor = 1484.887617 (%RSD = 10.94)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	37959.94	9042.83	----------	----------	1
2	25.0000	102337.09	26039.42	----------	----------	1
3	100.0000	383304.30	96303.70	----------	----------	1
4	250.0000	762614.38	190573.61	----------	----------	1
5	500.0000	1601893.83	394870.84	----------	----------	1
6	750.0000	2718165.35	679635.66	----------	----------	1
7	1000.0000	3233978.85	803806.00	----------	----------	1

Average Calibration Factor = 3547.852163 (%RSD = 10.98)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 9.214 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	6086.55	1786.42	----------	----------	1
2	25.0000	17610.02	5272.61	----------	----------	1
3	100.0000	65910.50	19805.78	----------	----------	1
4	250.0000	133998.87	39887.10	----------	----------	1
5	500.0000	289939.30	83383.91	----------	----------	1
6	750.0000	488833.54	143739.77	----------	----------	1
7	1000.0000	587336.29	171094.08	----------	----------	1

Average Calibration Factor = 618.164141 (%RSD = 9.22)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 10.640 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4983.08	1227.88	----------	----------	1
2	25.0000	13753.30	3607.26	----------	----------	1
3	100.0000	52203.55	13488.40	----------	----------	1
4	250.0000	102949.32	26376.43	----------	----------	1
5	500.0000	223047.25	56381.80	----------	----------	1
6	750.0000	386645.88	99744.05	----------	----------	1
7	1000.0000	464629.03	117765.64	----------	----------	1

Average Calibration Factor = 486.932017 (%RSD = 9.91)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 11.560 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	242538.86	69597.64	----------	----------	1

Average Calibration Factor = 970.155447 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 12.106 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	343274.93	93569.82	----------	----------96	1

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Average Calibration Factor = 1373.099737 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

PCB1254#3
Component Type : Single Peak Component
Retention Time : 13.031 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	382908.16	114484.97	----------	----------	1

Average Calibration Factor = 1531.632633 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 13.486 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	6389.09	2331.90	----------	----------	1
2	25.0000	24614.22	7831.43	----------	----------	1
3	100.0000	97207.51	29445.54	----------	----------	1
4	250.0000	185324.24	57087.38	----------	----------	1
5	500.0000	382313.13	117541.10	----------	----------	1
6	750.0000	653430.84	195861.69	----------	----------	1
7	1000.0000	788751.47	243380.73	----------	----------	1

97

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Average Calibration Factor = 823.066940 (%RSD = 15.35)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 14.079 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	10018.31	3285.95	----------	----------	1
2	25.0000	30558.75	10030.60	----------	----------	1
3	100.0000	111330.90	38374.83	----------	----------	1
4	250.0000	202823.14	67863.48	----------	----------	1
5	500.0000	416168.18	142463.15	----------	----------	1
6	750.0000	710247.16	240938.73	----------	----------	1
7	1000.0000	848591.93	292408.10	----------	----------	1

Average Calibration Factor = 968.101070 (%RSD = 16.04)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 14.301 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	249186.75	52960.04	----------	----------	1

Average Calibration Factor = 996.747018 (%RSD = 0.00)

PCB1254#5
Component Type : Single Peak Component
Retention Time : 14.896 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	322721.38	94134.33	----------	----------	1

Average Calibration Factor = 1290.885508 (%RSD = 0.00)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 15.167 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8372.37	2554.78	----------	----------	1
2	25.0000	21297.60	6869.46	----------	----------	1
3	100.0000	71228.79	23756.60	----------	----------	1
4	250.0000	132908.36	43997.78	----------	----------	1
5	500.0000	276783.93	92274.80	----------	----------	1
6	750.0000	480405.99	156584.53	----------	----------	1
7	1000.0000	575152.13	195415.04	----------	----------	1

Average Calibration Factor = 671.760505 (%RSD = 19.73)

PCB1260#4
Component Type : Single Peak Component
Retention Time : 15.741 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5802.87	1971.65	----------	----------	1
2	25.0000	17657.72	5955.06	----------	----------	1
3	100.0000	69357.84	22934.32	----------	----------	1
4	250.0000	129206.08	43252.64	----------	----------	1
5	500.0000	277506.23	92639.61	----------	----------	1
6	750.0000	492390.81	161956.68	----------	----------	1
7	1000.0000	595807.00	201072.00	----------	----------	1

Average Calibration Factor = 614.905512 (%RSD = 11.70)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	45162.29	14790.13	----------	----------	1
2	25.0000	142231.41	44755.94	----------	----------	1
3	100.0000	520911.83	167834.63	----------	----------	1
4	250.0000	959485.00	309550.64	----------	----------	1
5	500.0000	2002734.44	651510.44	----------	----------	1
6	750.0000	3500613.37	1.12e+06	----------	----------	1
7	1000.0000	4200426.50	1.37e+06	----------	----------	1

Average Calibration Factor = 4589.417690 (%RSD = 14.51)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 16.400 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	14579.65	4645.85	----------	----------	1
2	25.0000	48103.13	14069.40	----------	----------	1
3	100.0000	171786.79	53323.35	----------	----------	1
4	250.0000	309223.18	97349.36	----------	----------	1
5	500.0000	649962.97	206591.78	----------	----------	1
6	750.0000	1164138.56	364337.77	----------	----------	1
7	1000.0000	1392123.98	433129.80	----------	----------	1

Average Calibration Factor = 1511.583663 (%RSD = 16.02)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.174 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	307589.36	104648.22	----------	----------	1
4	50.0000	549736.43	182209.89	----------	----------	1
5	100.0000	1100217.41	363868.59	----------	----------	1
6	150.0000	1828379.31	618748.64	----------	----------	1
7	200.0000	2179241.33	716863.15	----------	----------	1
1	2.0000	27786.82	9596.55	----------	----------	1
2	5.0000	85450.96	28938.18	----------	----------	1

Average Calibration Factor = 13063.625174 (%RSD = 18.82)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
421454.79	112615.64	20.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
889009.23	218399.31	50.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1761872.72	442878.19	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43474.71	10487.59	2.0000	---------	---------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116350.85	31202.04	5.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2955556.59	746452.63	150.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3457812.11	883802.51	200.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5860.75	1183.01	10.0000	---------	---------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12720.35	3165.01	25.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44502.25	11530.52	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92142.67	23031.85	250.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185813.15	47581.20	500.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
323132.53	80701.30	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
365512.83	94958.74	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5653.26	1617.78	10.0000	---------	---------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15238.08	4614.57	25.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57232.73	16950.69	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
113519.82	33363.97	250.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229925.45	67795.64	500.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
383696.98	113346.81	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
455910.60	135495.54	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15376.30	3227.74	10.0000	---------	---------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43015.34	9379.98	25.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
163455.27	34528.31	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
320003.70	67914.26	250.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
673168.68	139728.29	500.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1135856.41	242103.74	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1360590.09	284492.01	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : Aroclor-1016
Level : 1

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37959.94	9042.83	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102337.09	26039.42	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
383304.30	96303.70	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
762614.38	190573.61	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1601893.83	394870.84	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2718165.35	679635.66	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3233978.85	803806.00	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6086.55	1786.42	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17610.02	5272.61	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65910.50	19805.78	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133998.87	39887.10	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
289939.30	83383.91	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
488833.54	143739.77	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
587336.29	171094.08	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4983.08	1227.88	10.0000	---------	---------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13753.30	3607.26	25.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52203.55	13488.40	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102949.32	26376.43	250.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
223047.25	56381.80	500.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
386645.88	99744.05	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
464629.03	117765.64	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
242538.86	69597.64	250.0000	---------	---------	10/6/04	12:36:26 PM	G:\gc06\chb\279b030p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
343274.93	93569.82	250.0000	---------	---------	10/6/04	12:36:26 PM	G:\gc06\chb\279b030p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1254#3
Level : 54

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
382908.16	114484.97	250.0000	----------	----------	10/6/04	12:36:26 PM	G:\gc06\chb\279b030p.rst

Component : PCB1260#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6389.09	2331.90	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24614.22	7831.43	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
97207.51	29445.54	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185324.24	57087.38	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
382313.13	117541.10	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
653430.84	195861.69	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
788751.47	243380.73	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10018.31	3285.95	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30558.75	10030.60	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
111330.90	38374.83	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
202823.14	67863.48	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
416168.18	142463.15	500.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
710247.16	240938.73	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
848591.93	292408.10	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
249186.75	52960.04	250.0000	---------	---------	10/6/04	12:36:26 PM	G:\gc06\chb\279b030p.rst

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
322721.38	94134.33	250.0000	---------	---------	10/6/04	12:36:26 PM	G:\gc06\chb\279b030p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8372.37	2554.78	10.0000	---------	---------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21297.60	6869.46	25.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71228.79	23756.60	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132908.36	43997.78	250.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
276783.93	92274.80	500.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
480405.99	156584.53	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
575152.13	195415.04	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Component : PCB1260#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5802.87	1971.65	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17657.72	5955.06	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69357.84	22934.32	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129206.08	43252.64	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
277506.23	92639.61	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
492390.81	161956.68	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
595807.00	201072.00	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45162.29	14790.13	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
142231.41	44755.94	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
520911.83	167834.63	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
959485.00	309550.64	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2002734.44	651510.44	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3500613.37	1.11968e+006	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4200426.50	1.36541e+006	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1260#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14579.65	4645.85	10.0000	---------	---------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48103.13	14069.40	25.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171786.79	53323.35	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
309223.18	97349.36	250.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
649962.97	206591.78	500.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1164138.56	364337.77	750.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1392123.98	433129.80	1000.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
307589.36	104648.22	20.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
549736.43	182209.89	50.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100217.41	363868.59	100.0000	---------	---------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

10/8/04 12:09:07 PM Method: G:\gc06\files\5460b281.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1828379.31	618748.64	150.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2179241.33	716863.15	200.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27786.82	9596.55	2.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85450.96	28938.18	5.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstrument: GC06 Gas Chromatograph #6 ECD Reviewed By: /mcw 10/8/04
alnum: 204405784001 Name: Type: (normal) Date: 07-OCT-2004 19:04 Inj Vol (uL): 1

alibration levels:

	Filename	Seqnum	Samplenum	Analyzed	Standards
	281_002	204405784002	pcb10_2	07-OCT-2004 19:04	04WS1786
	281_003	204405784003	pcb25_5	07-OCT-2004 19:38	04WS1787
	281_004	204405784004	pcb100_20	07-OCT-2004 20:11	04WS1788
	281_005	204405784005	pcb250_50	07-OCT-2004 20:44	04WS1789
	281_006	204405784006	pcb500_100	07-OCT-2004 21:17	04WS1790
	281_007	204405784007	pcb750_150	07-OCT-2004 21:51	04WS1791
	281_008	204405784008	cblk_200	07-OCT-2004 22:24	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	311.11	354.41	346.54	302.16	307.42	348.48	313.20	AVRG	R		0.003066		pg	326.19	7	.99	20	
Aroclor-1016 Peak # 2	A	554.64	760.07	617.03	507.42	509.91	574.22	512.52	AVRG	R		0.001734		pg	576.55	16	.99	20	
Aroclor-1016 Peak # 3	A	227.75	288.59	286.60	244.90	262.80	308.16	281.45	AVRG	R		0.003684		pg	271.47	10	.99	20	
Aroclor-1016 Peak # 4	A	183.05	220.65	211.75	179.31	189.99	222.26	200.96	AVRG	R		0.004972		pg	201.14	9	.99	20	
Aroclor-1016 Peak # 5	A	262.20	366.67	359.86	289.89	308.71	354.74	322.15	AVRG	R		0.003092		pg	323.46	12	.99	20	
Aroclor-1260 Peak # 1	A	371.60	599.87	621.90	485.34	511.67	584.99	526.98	AVRG	R		0.001891		pg	528.91	16	.99	20	
Aroclor-1260 Peak # 2	A	242.90	374.20	363.14	288.37	319.68	395.32	361.39	AVRG	R		0.002985		pg	335.00	16	.99	20	
Aroclor-1260 Peak # 3	A	445.25	561.46	564.02	450.70	484.43	565.58	506.25	AVRG	R		0.001957		pg	511.10	10	.99	20	
Aroclor-1260 Peak # 4	A	320.16	461.82	504.43	382.52	421.40	509.04	464.74	AVRG	R		0.002285		pg	437.73	16	.99	20	
Aroclor-1260 Peak # 5	A	1022.3	1265.5	1275.4	976.78	1055.0	1239.3	1110.1	AVRG	R		8.811E-4		pg	1134.9	11	.99	20	
TCMX	A	13417	15775	14205	12268	12428	14123	12718	AVRG	R		7.373E-5		pg	13562	9	.99	20	
Decachlorobiphenyl	A	8267.7	11208	11009	8100.3	8436.1	9579.9	8583.0	AVRG	R		1.074E-4		pg	9311.9	14	.99	20	
Aroclor-1016 Peak # 1	B	586.08	508.81	445.02	368.57	371.63	430.84	365.51	AVRG	R		0.002275		pg	439.49	19	.99	20	
Aroclor-1016 Peak # 2	B	565.33	609.52	572.33	454.08	459.85	511.60	455.91	AVRG	R		0.001929		pg	518.37	12	.99	20	
Aroclor-1016 Peak # 3	B	1537.6	1720.6	1634.6	1280.0	1346.3	1514.5	1360.6	AVRG	R		6.735E-4		pg	1484.9	11	.99	20	
Aroclor-1016 Peak # 4	B	608.66	704.40	659.11	536.00	579.88	651.78	587.34	AVRG	R		0.001618		pg	618.16	9	.99	20	
Aroclor-1016 Peak # 5	B	498.31	550.13	522.04	411.80	446.09	515.53	464.63	AVRG	R		0.002054		pg	486.93	10	.99	20	
Aroclor-1260 Peak # 1	B	638.91	984.57	972.08	741.30	764.63	871.24	788.75	AVRG	R		0.001215		pg	823.07	15	.99	20	
Aroclor-1260 Peak # 2	B	1001.8	1222.4	1113.3	811.29	832.34	947.00	848.59	AVRG	R		0.001033		pg	968.10	16	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstrument: GC06 Gas Chromatograph #6 ECD Reviewed By:
alnum: 204405784001 Name: Type: (normal) Date: 07-OCT-2004 19:04 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	837.24	851.90	712.29	531.63	553.57	640.54	575.15	AVRG	R		0.001489		pg	671.76	20	.99	20	
Aroclor-1260 Peak # 4	B	580.29	706.31	693.58	516.82	555.01	656.52	595.81	AVRG	R		0.001626		pg	614.91	12	.99	20	
Aroclor-1260 Peak # 5	B	1458.0	1924.1	1717.9	1236.9	1299.9	1552.2	1392.1	AVRG	R		6.616E-4		pg	1511.6	16	.99	20	
TCMX	B	21737	23270	21073	17780	17619	19704	17289	AVRG	R		5.055E-5		pg	19782	12	.99	20	
Decachlorobiphenyl	B	13893	17090	15379	10995	11002	12189	10896	AVRG	R		7.655E-5		pg	13064	19	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/2
Sample Amount : 1.000000
Cycle : 2

Date : 10/8/04 11:31:38 AM
Data Acquisition Time : 10/7/04 7:04:51 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a002p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.097	26834.60	1.75	1.0000	1	1.75	0.35
Aroclor-1016	9.053	15387.47	5.54	1.0000	1	5.54	1.11
Aroclor-1254	15.375	11159.29	0.01	1.0000	1	0.01	0.00
Aroclor-1260	17.681	24021.71	5.15	1.0000	1	5.15	1.03
Decachlorobiphenyl	21.002	16535.32	1.27	1.0000	1	1.27	0.25
		93938.39	13.72			13.72	2.74

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.099	3111.06	8.94	1.0000	1	8.94	1.79
PCB1016#2	9.053	5546.44	8.10	1.0000	1	8.10	1.62
PCB1016#3	10.776	2277.51	2.79	1.0000	1	2.79	0.56
PCB1016#4	11.248	1830.48	3.69	1.0000	1	3.69	0.74
PCB1016#5	11.659	2621.98	6.05	1.0000	1	6.05	1.21
		15387.47	29.57			29.57	5.91

10/8/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.003	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.375	8329.79	11.26	1.0000	1	11.26	2.25
PCB1254#5	16.446	2829.49	2.86	1.0000	1	2.86	0.57
		11159.29	14.11			14.11	2.82

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.694	3716.01	4.94	1.0000	1	4.94	0.99
PCB1260#2	15.680	2429.02	1.95	1.0000	1	1.95	0.39
PCB1260#3	16.335	4452.49	7.04	1.0000	1	7.04	1.41
PCB1260#4	16.934	3201.57	5.25	1.0000	1	5.25	1.05
PCB1260#5	17.681	10222.62	7.19	1.0000	1	7.19	1.44
		24021.71	26.36			26.36	5.27

----------CURTIS & TOMPKINS LTD----------

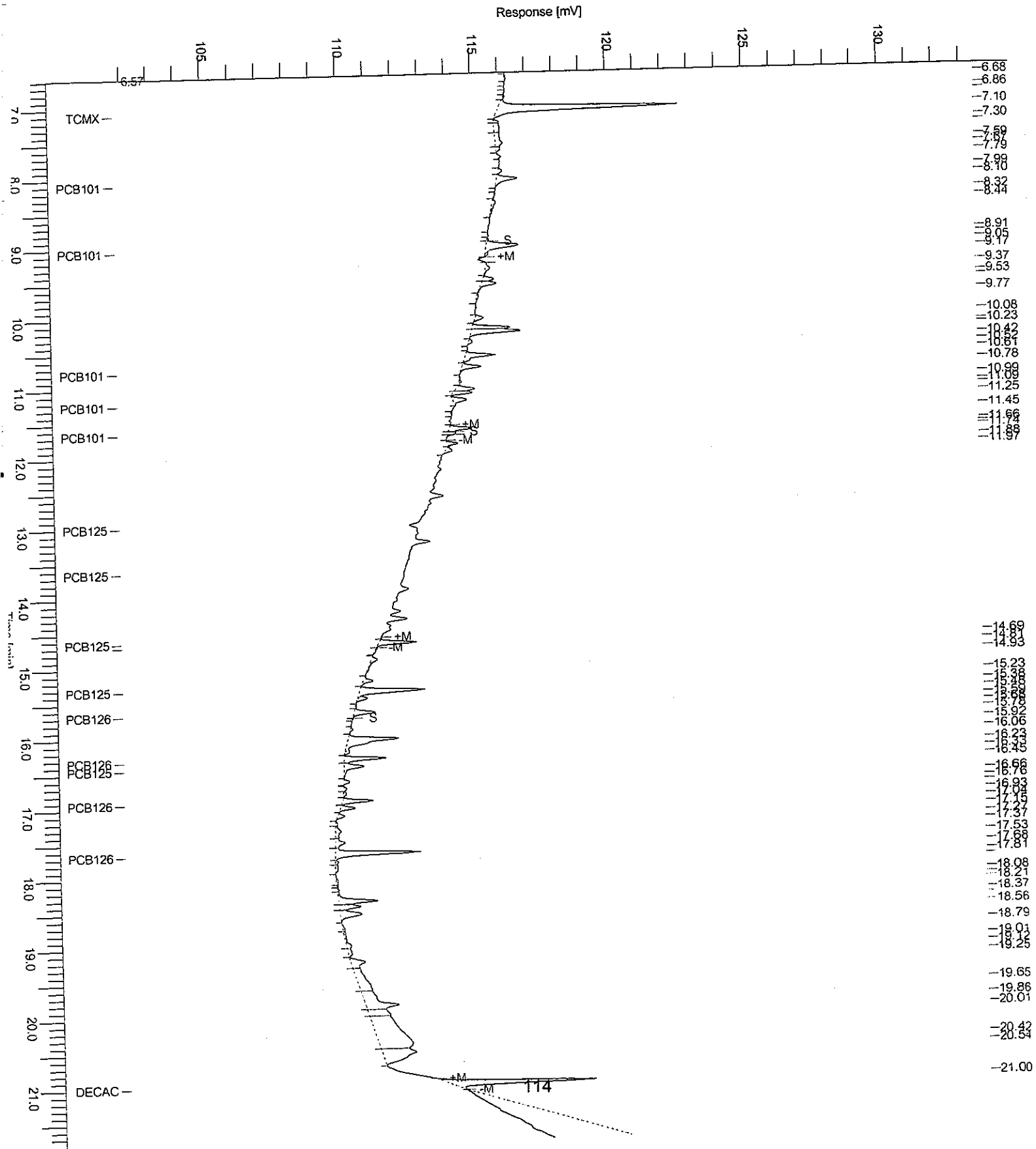
Report stored in ASCII file: G:\gc06\cha\281a002p.TX0

GC 06 Rtx-CLPesticides

ple Name : ical,04ws1786,pcb10_2
lame : G:\gc06\CHa\281a002.raw
: 10/8/04 11:32:09 AM
od :
Time : 6.59 min
Offset: 101.75 mV

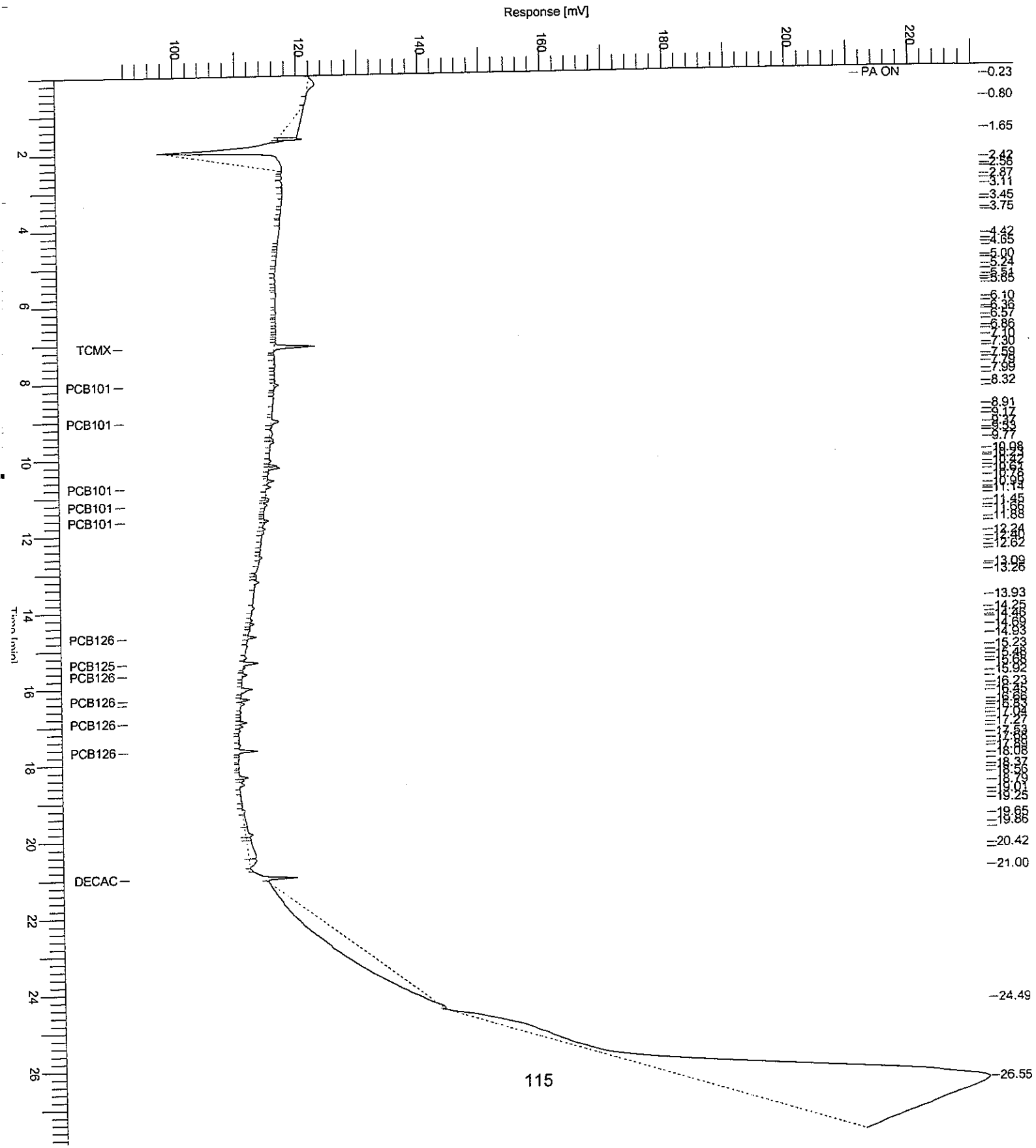
Sample #: 250ug/l

Time of Injection: 10/7/04 7:04:51 PM
End Time : 21.83 min
Low Point : 101.75 mV
High Point : 133.54 mV
Plot Scale: 31.8 mV



GC 06 Rtx-CLPesticides

ıple Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHa\281a002.raw
e : 10/8/04 11:01:59 AM
hod : gc06fsa1ul Time of Injection: 10/7/04 7:04:51 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 91.50 mV High Point : 231.34 mV
ıle Factor: 1.0 Plot Offset: 91.50 mV Plot Scale: 139.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/2
Sample Amount : 1.000000
Cycle : 2

Date : 10/8/04 11:49:04 AM
Data Acquisition Time : 10/7/04 7:04:51 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b002p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.974	43474.71	0.44	1.0000	1	0.44	0.09
Aroclor-1016	8.961	37959.94	7.52	1.0000	1	7.52	1.50
Aroclor-1254	11.573	345.56	0.00	1.0000	1	0.00	0.00
Aroclor-1260	16.400	45162.29	3.26	1.0000	1	3.26	0.65
Decachlorobiphenyl	20.174	27786.82	1.77	1.0000	1	1.77	0.35
		154729.32	12.99			12.99	2.60

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.855	5860.75	12.66	1.0000	1	12.66	2.53
PCB1016#2	8.310	5653.26	6.95	1.0000	1	6.95	1.39
PCB1016#3	8.961	15376.30	8.49	1.0000	1	8.49	1.70
PCB1016#4	9.213	6086.55	6.92	1.0000	1	6.92	1.38
PCB1016#5	10.639	4983.08	4.60	1.0000	1	4.60	0.92
		37959.94	39.62			39.62	7.92

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.573	345.56	0.36	1.0000	1	0.36	0.07
PCB1254#2	12.106	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	13.030	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		345.56	0.36			0.36	0.07

Group Report For : Aroclor-1260

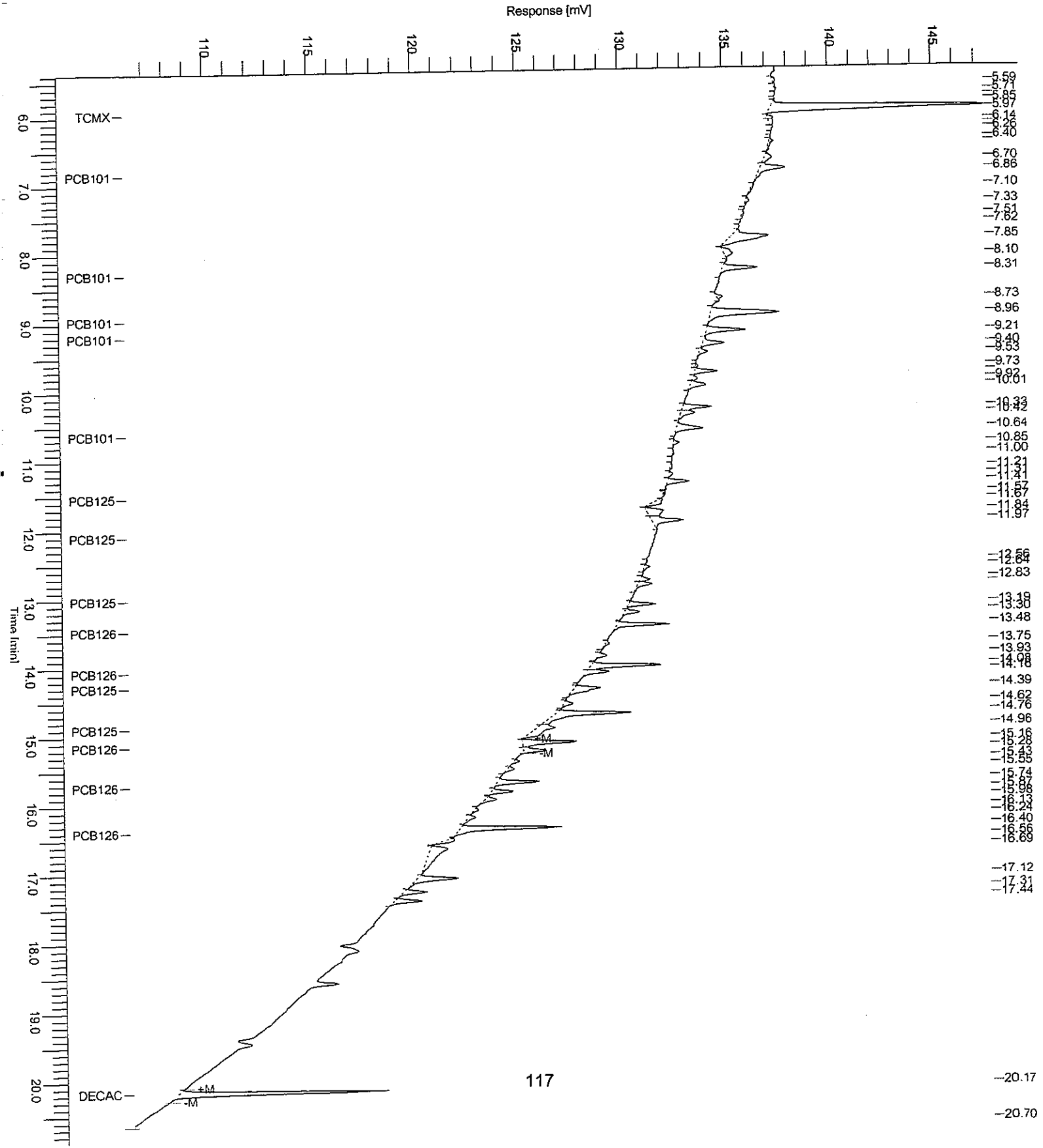
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.480	6389.09	0.96	1.0000	1	0.96	0.19
PCB1260#2	14.076	10018.31	3.03	1.0000	1	3.03	0.61
PCB1260#3	15.165	8372.37	7.68	1.0000	1	7.68	1.54
PCB1260#4	15.736	5802.87	9.59	1.0000	1	9.59	1.92
PCB1260#5	16.400	14579.65	6.59	1.0000	1	6.59	1.32
		45162.29	27.85			27.85	5.57

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\281b002p.TX0

GC 06 Rtx-5

nple Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHb\281b002.raw
e : 10/8/04 11:49:11 AM
thod :
Time of Injection: 10/7/04 7:04:51 PM
rt Time : 5.39 min End Time : 20.89 min Low Point : 106.12 mV High Point : 147.47 mV
t Offset: 106.12 mV Plot Scale: 41.3 mV



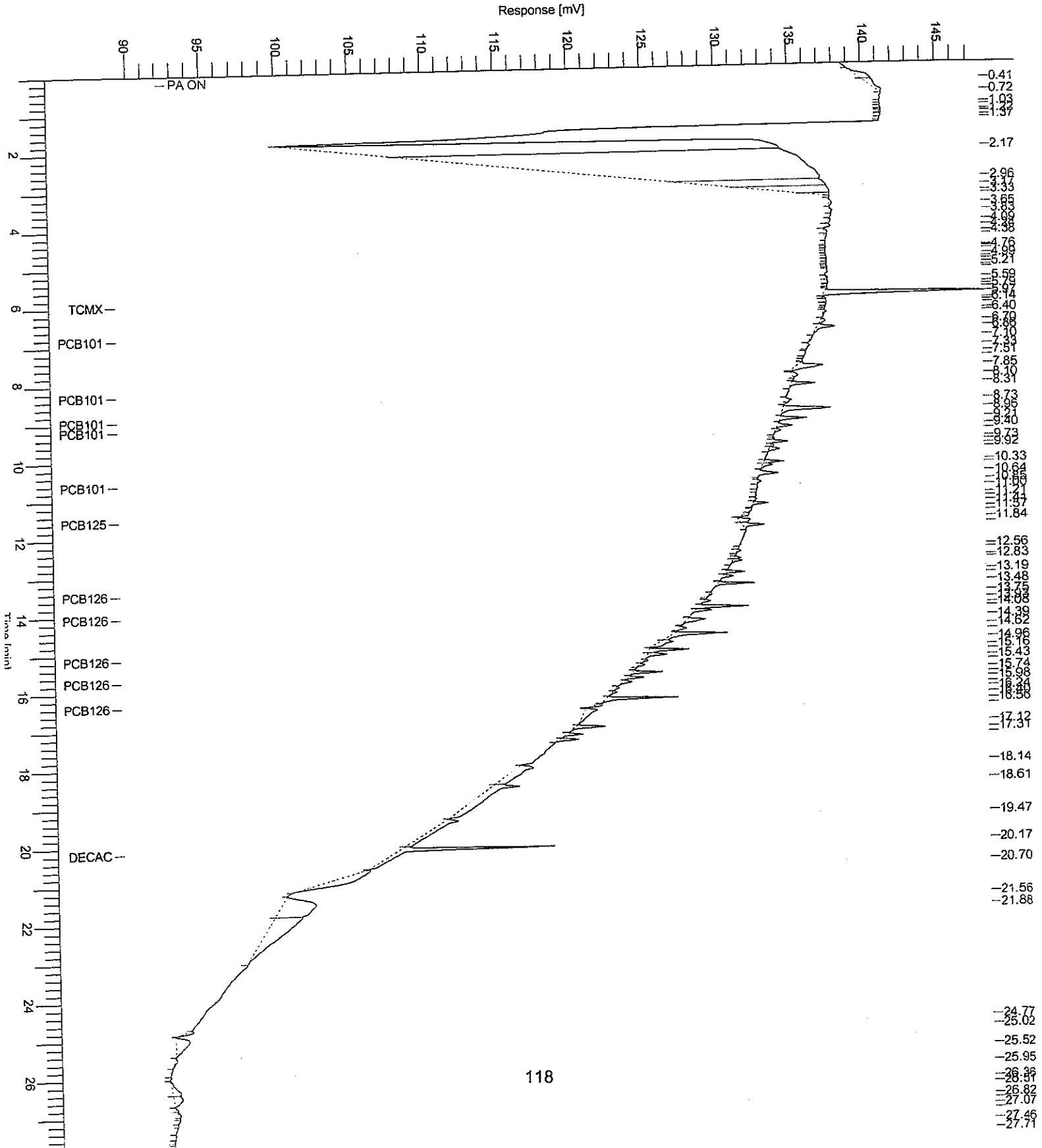
GC 06 Rtx-5

ıple Name : ical,04ws1786,pcb10_2
Name : G:\gc06\CHb\281b002
: 10/8/04 11:02:37 AM
hod : gc06fsa1ul
t Time : 0.00 min End Time : 27.88 min
le Factor: 1.0 Plot Offset: 89.07 mV

Sample #: 250ug/l

Page 1 of 1

Time of Injection: 10/7/04 7:04:51 PM
Low Point : 89.07 mV High Point : 147.92 mV
Plot Scale: 58.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/3
Sample Amount : 1.000000
Cycle : 3

Date : 10/8/04 11:08:09 AM
Data Acquisition Time : 10/7/04 7:38:03 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a003p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.099	78875.51	5.14	1.0000	1	5.14	1.03
Aroclor-1016	9.056	49760.16	17.91	1.0000	1	17.91	3.58
Aroclor-1254	15.379	35986.80	0.04	1.0000	1	0.04	0.01
Aroclor-1260	17.684	81572.31	17.49	1.0000	1	17.49	3.50
Decachlorobiphenyl	21.004	56038.79	4.31	1.0000	1	4.31	0.86
		302233.57	44.88			44.88	8.98

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.104	8860.35	25.47	1.0000	1	25.47	5.09
PCB1016#2	9.056	19001.85	27.75	1.0000	1	27.75	5.55
PCB1016#3	10.779	7214.86	8.83	1.0000	1	8.83	1.77
PCB1016#4	11.249	5516.29	11.13	1.0000	1	11.13	2.23
PCB1016#5	11.666	9166.81	21.15	1.0000	1	21.15	4.23
		49760.16	94.33			94.33	18.87

10/8/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.003	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.379	28504.30	38.52	1.0000	1	38.52	7.70
PCB1254#5	16.452	7482.50	7.55	1.0000	1	7.55	1.51
		35986.80	46.07			46.07	9.21

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.698	14996.69	19.95	1.0000	1	19.95	3.99
PCB1260#2	15.684	9355.04	7.50	1.0000	1	7.50	1.50
PCB1260#3	16.337	14036.59	22.18	1.0000	1	22.18	4.44
PCB1260#4	16.938	11545.47	18.92	1.0000	1	18.92	3.78
PCB1260#5	17.684	31638.54	22.24	1.0000	1	22.24	4.45
		81572.31	90.80			90.80	18.16

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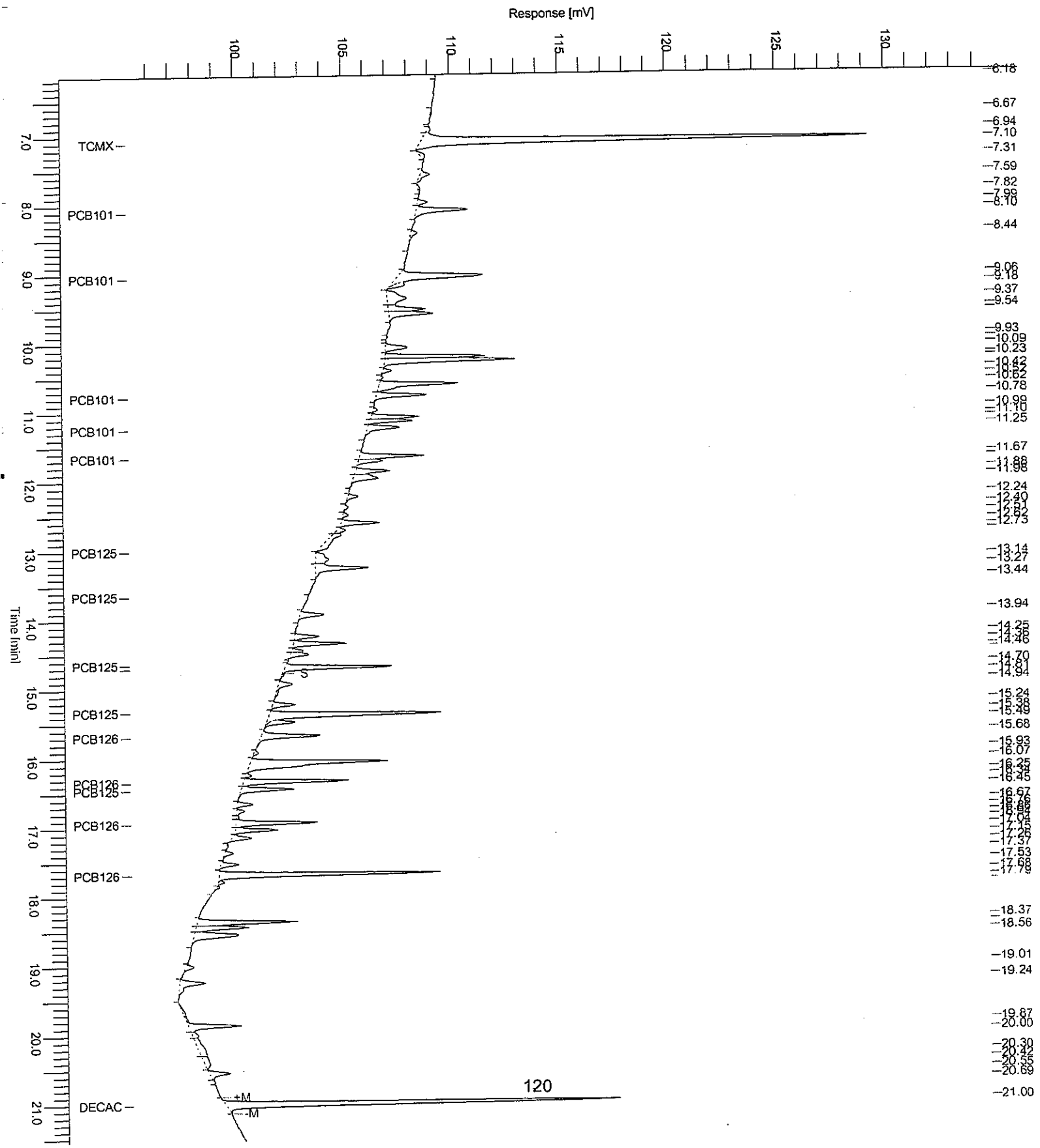
Report stored in ASCII file: G:\gc06\cha\281a003p.TX0

GC 06 Rtx-CLPesticides

mple Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l
eName : G:\gc06\CHa\281a003.raw
te : 10/8/04 11:08:14 AM
thod :
Time of Injection: 10/7/04 7:38:03 PM
art Time : 6.15 min End Time : 21.55 min Low Point : 95.09 mV High Point : 134.57 mV
t Offset: 95.09 mV Plot Scale: 39.5 mV

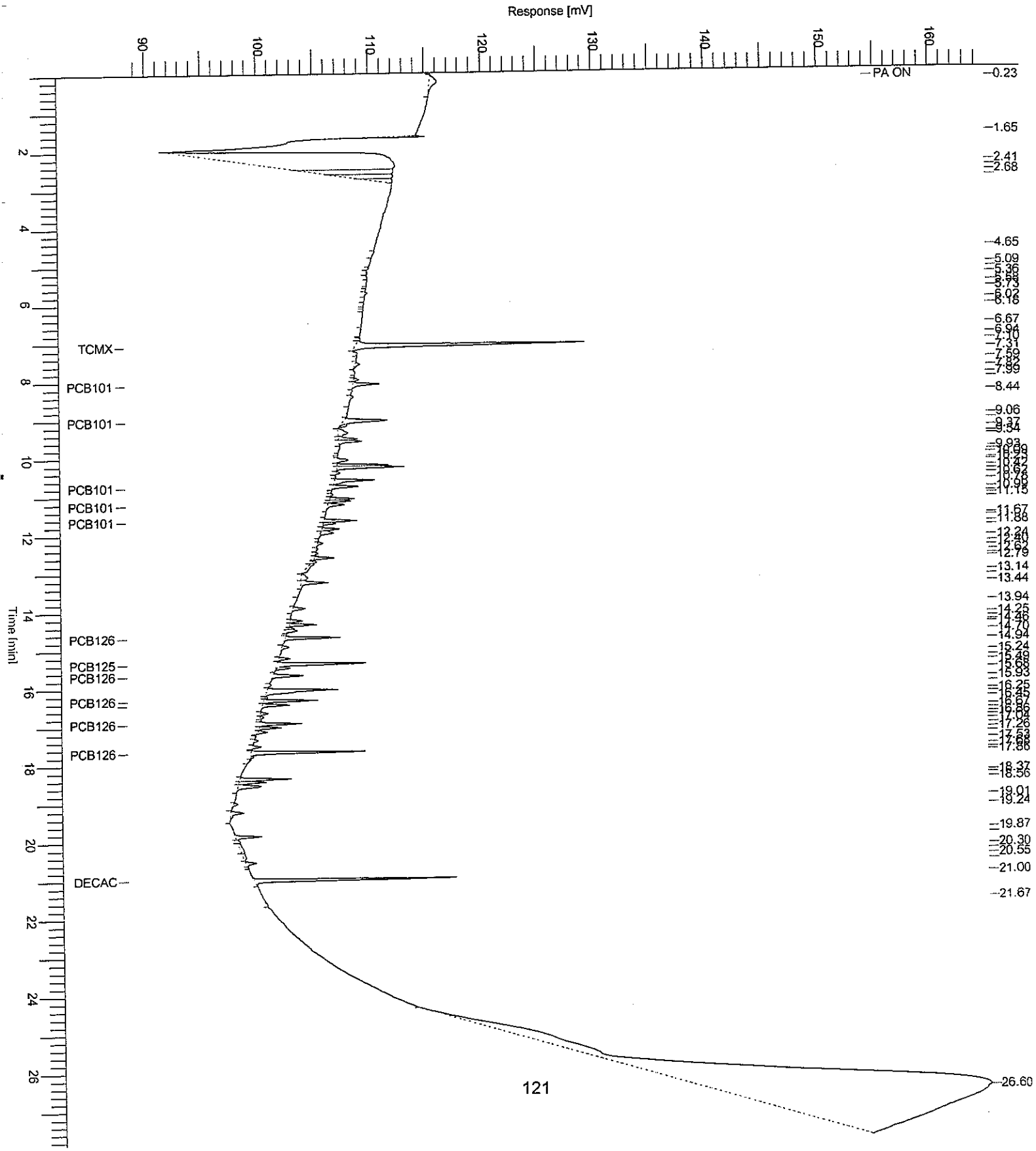


GC 06 Rtx-CLPesticides

mple Name : ical,04ws1787,pcb25_5
eName : G:\gc06\CHa\281a003.raw
te : 10/8/04 11:02:04 AM
thod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 10/7/04 7:38:03 PM
End Time : 27.88 min
Low Point : 88.07 mV
High Point : 164.93 mV
Plot Offset: 88.07 mV
Plot Scale: 76.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/3
Sample Amount : 1.000000
Cycle : 3

Date : 10/8/04 11:15:33 AM
Data Acquisition Time : 10/7/04 7:38:03 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b003p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.973	116350.85	1.18	1.0000	1	1.18	0.24
Aroclor-1016	8.962	102337.09	20.26	1.0000	1	20.26	4.05
Aroclor-1254	11.568	6582.53	0.01	1.0000	1	0.01	0.00
Aroclor-1260	16.401	142231.41	10.25	1.0000	1	10.25	2.05
Decachlorobiphenyl	20.176	85450.96	5.45	1.0000	1	5.45	1.09
		452952.85	37.16			37.16	7.43

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.856	12720.35	27.48	1.0000	1	27.48	5.50
PCB1016#2	8.311	15238.08	18.73	1.0000	1	18.73	3.75
PCB1016#3	8.962	43015.34	23.76	1.0000	1	23.76	4.75
PCB1016#4	9.215	17610.02	20.01	1.0000	1	20.01	4.00
PCB1016#5	10.640	13753.30	12.70	1.0000	1	12.70	2.54
		102337.09	102.67			102.67	20.53

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.568	6290.23	6.48	1.0000	1	6.48	1.30
PCB1254#2	12.106	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	13.035	292.30	0.19	1.0000	1	0.19	0.04
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		6582.53	6.67			6.67	1.33

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.483	24614.22	3.70	1.0000	1	3.70	0.74
PCB1260#2	14.077	30558.75	9.25	1.0000	1	9.25	1.85
PCB1260#3	15.165	21297.60	19.55	1.0000	1	19.55	3.91
PCB1260#4	15.738	17657.72	29.18	1.0000	1	29.18	5.84
PCB1260#5	16.401	48103.13	21.73	1.0000	1	21.73	4.35
		142231.41	83.41			83.41	16.68

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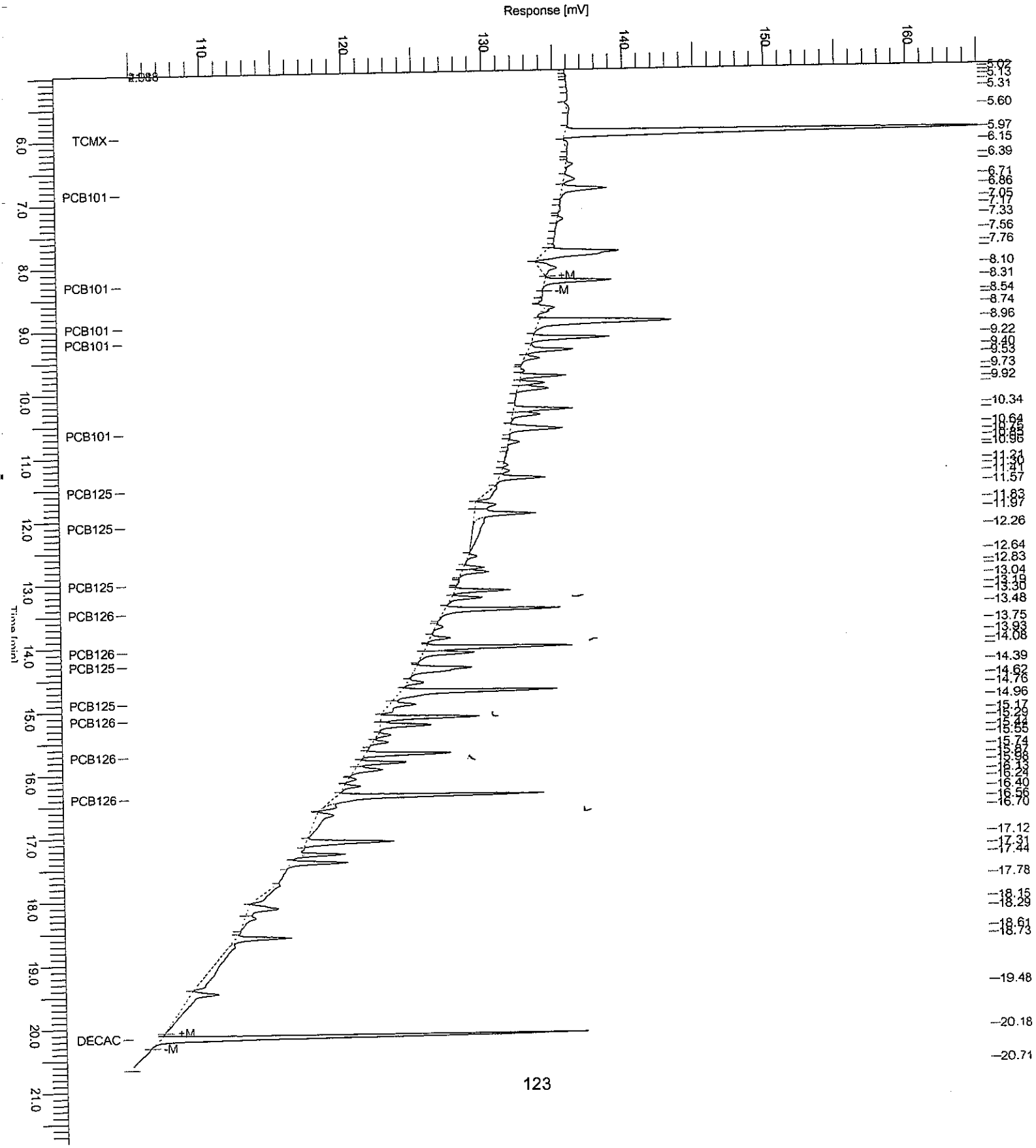
Report stored in ASCII file: G:\gc06\chb\281b003p.TX0

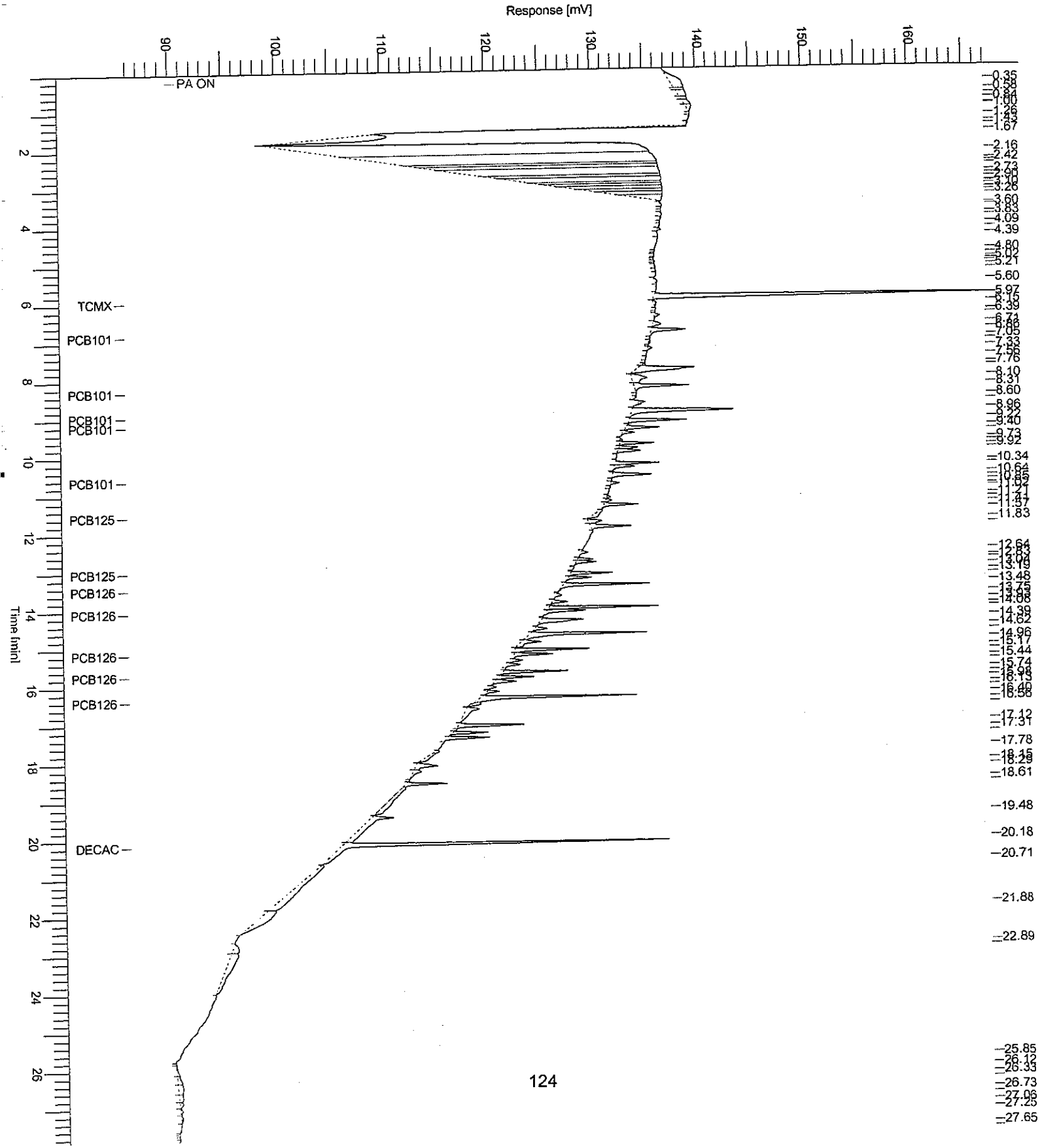
GC 06 Rtx-5

ıple Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHb\281b003.raw
e : 10/8/04 11:15:37 AM
hod :
Time of Injection: 10/7/04 7:38:03 PM
t Time : 4.97 min End Time : 21.80 min Low Point : 104.36 mV High Point : 165.09 mV
: Offset: 104.36 mV Plot Scale: 60.7 mV



GC 06 Rtx-5

mple Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\281b003
te : 10/8/04 11:02:42 AM
thod : gc06fsa1ul Time of Injection: 10/7/04 7:38:03 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 85.67 mV High Point : 167.11 mV
ale Factor: 1.0 Plot Offset: 85.67 mV Plot Scale: 81.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/4
Sample Amount : 1.000000
Cycle : 4

Date : 10/8/04 11:09:27 AM
Data Acquisition Time : 10/7/04 8:11:23 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a004p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.107	284103.92	18.50	1.0000	1	18.50	3.70
Aroclor-1016	9.058	182178.13	65.55	1.0000	1	65.55	13.11
Aroclor-1254	16.454	29467.69	0.03	1.0000	1	0.03	0.01
Aroclor-1260	17.689	332884.53	71.36	1.0000	1	71.36	14.27
Decachlorobiphenyl	21.000	220176.18	16.95	1.0000	1	16.95	3.39
		1048810.45	172.40			172.40	34.48

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.106	34653.65	99.61	1.0000	1	99.61	19.92
PCB1016#2	9.058	61703.46	90.10	1.0000	1	90.10	18.02
PCB1016#3	10.784	28660.24	35.07	1.0000	1	35.07	7.01
PCB1016#4	11.251	21174.94	42.72	1.0000	1	42.72	8.54
PCB1016#5	11.668	35985.85	83.04	1.0000	1	83.04	16.61
		182178.13	350.54			350.54	70.11

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.003	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.332	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	16.454	29467.69	29.74	1.0000	1	29.74	5.95
		29467.69	29.74			29.74	5.95

10/8/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.704	62189.99	82.73	1.0000	1	82.73	16.55
PCB1260#2	15.688	36313.69	29.10	1.0000	1	29.10	5.82
PCB1260#3	16.339	56401.99	89.14	1.0000	1	89.14	17.83
PCB1260#4	16.939	50443.14	82.67	1.0000	1	82.67	16.53
PCB1260#5	17.689	127535.72	89.66	1.0000	1	89.66	17.93
		332884.53	373.31			373.31	74.66

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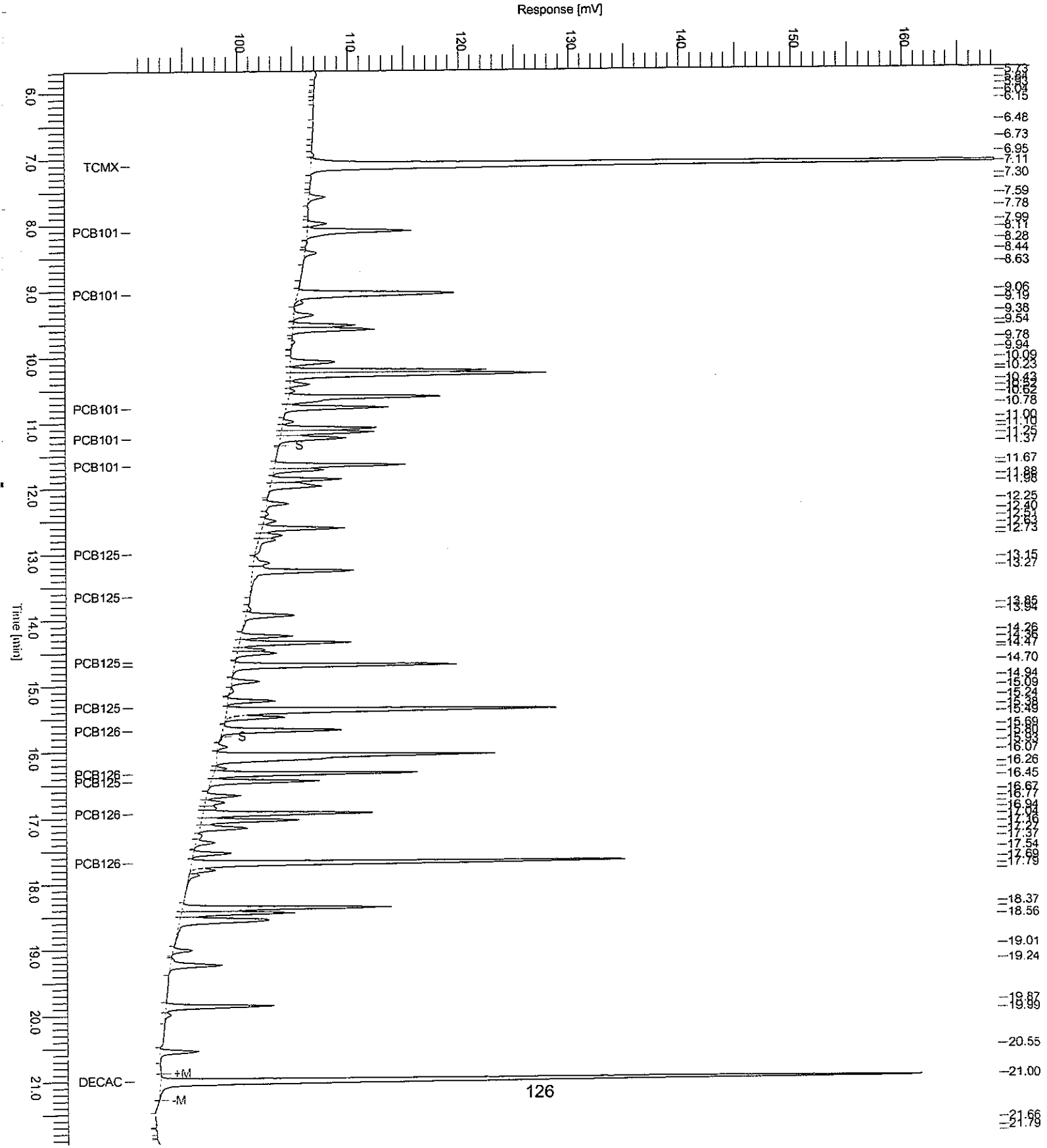
Report stored in ASCII file: G:\gc06\cha\281a004p.TX0

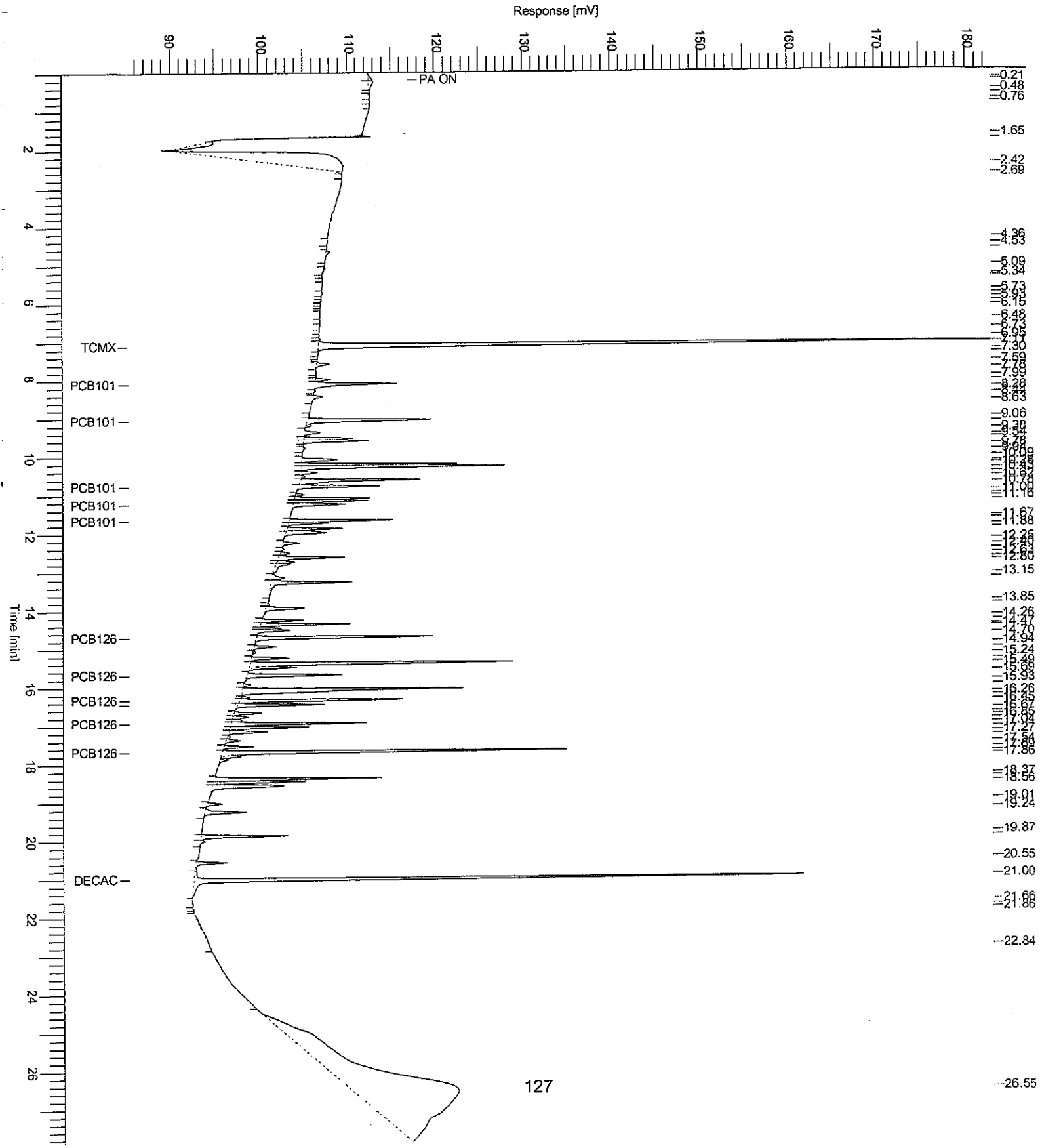
GC 06 Rtx-CLPesticides

ample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHa\281a004.raw
ate : 10/8/04 11:09:32 AM
lethod :
Time of Injection: 10/7/04 8:11:23 PM
tart Time : 5.68 min End Time : 21.96 min Low Point : 90.32 mV High Point : 168.29 mV
lot Offset: 90.32 mV Plot Scale: 78.0 mV



GC 06 Rtx-CLPesticides

ımple Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l
eName : G:\gc06\CHa\281a004.raw
ıte : 10/8/04 11:02:09 AM
ethod : gc06fsa1ul Time of Injection: 10/7/04 8:11:23 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 85.16 mV High Point : 182.86 mV
cale Factor: 1.0 Plot Offset: 85.16 mV Plot Scale: 97.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/4
Sample Amount : 1.000000
Cycle : 4

Date : 10/8/04 11:16:18 AM
Data Acquisition Time : 10/7/04 8:11:23 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b004p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.973	421454.79	4.29	1.0000	1	4.29	0.86
Aroclor-1016	8.973	383304.30	75.89	1.0000	1	75.89	15.18
Aroclor-1254	12.104	6614.35	0.01	1.0000	1	0.01	0.00
Aroclor-1260	16.400	520911.83	37.55	1.0000	1	37.55	7.51
Decachlorobiphenyl	20.173	307589.36	19.62	1.0000	1	19.62	3.92
		1639874.63	137.36			137.36	27.47

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.857	44502.25	96.15	1.0000	1	96.15	19.23
PCB1016#2	8.313	57232.73	70.35	1.0000	1	70.35	14.07
PCB1016#3	8.973	163455.27	90.27	1.0000	1	90.27	18.05
PCB1016#4	9.217	65910.50	74.89	1.0000	1	74.89	14.98
PCB1016#5	10.642	52203.55	48.19	1.0000	1	48.19	9.64
		383304.30	379.85			379.85	75.97

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.572	4564.39	4.70	1.0000	1	4.70	0.94
PCB1254#2	12.104	2049.96	1.49	1.0000	1	1.49	0.30
PCB1254#3	13.030	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		6614.35	6.20			6.20	1.24

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.489	97207.51	14.60	1.0000	1	14.60	2.92
PCB1260#2	14.080	111330.90	33.69	1.0000	1	33.69	6.74
PCB1260#3	15.169	71228.79	65.38	1.0000	1	65.38	13.08
PCB1260#4	15.742	69357.84	114.62	1.0000	1	114.62	22.92
PCB1260#5	16.400	171786.79	77.61	1.0000	1	77.61	15.52
		520911.83	305.90			305.90	61.18

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Report stored in ASCII file: G:\gc06\chb\281b004p.TX0

GC 06 Rtx-5

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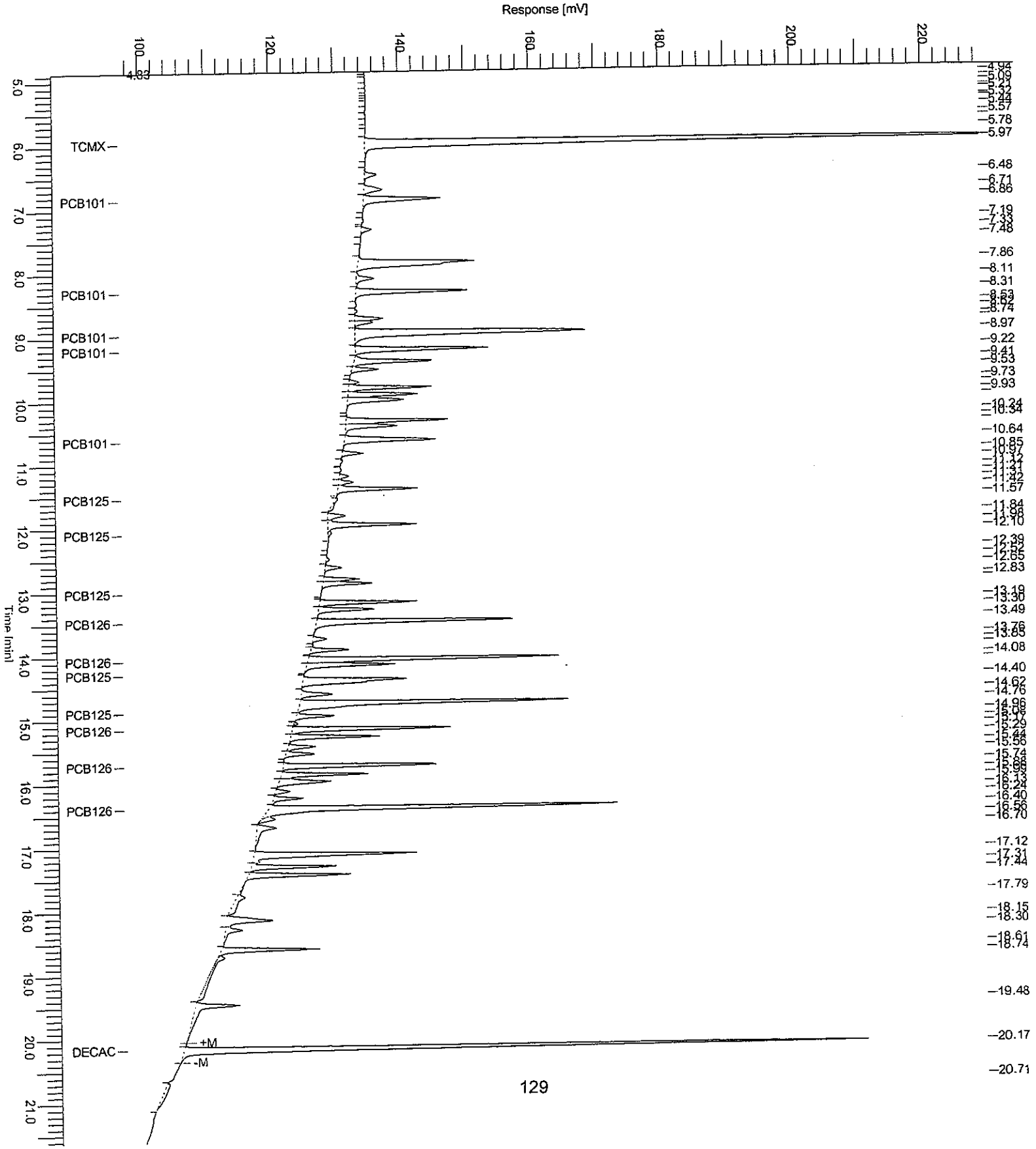
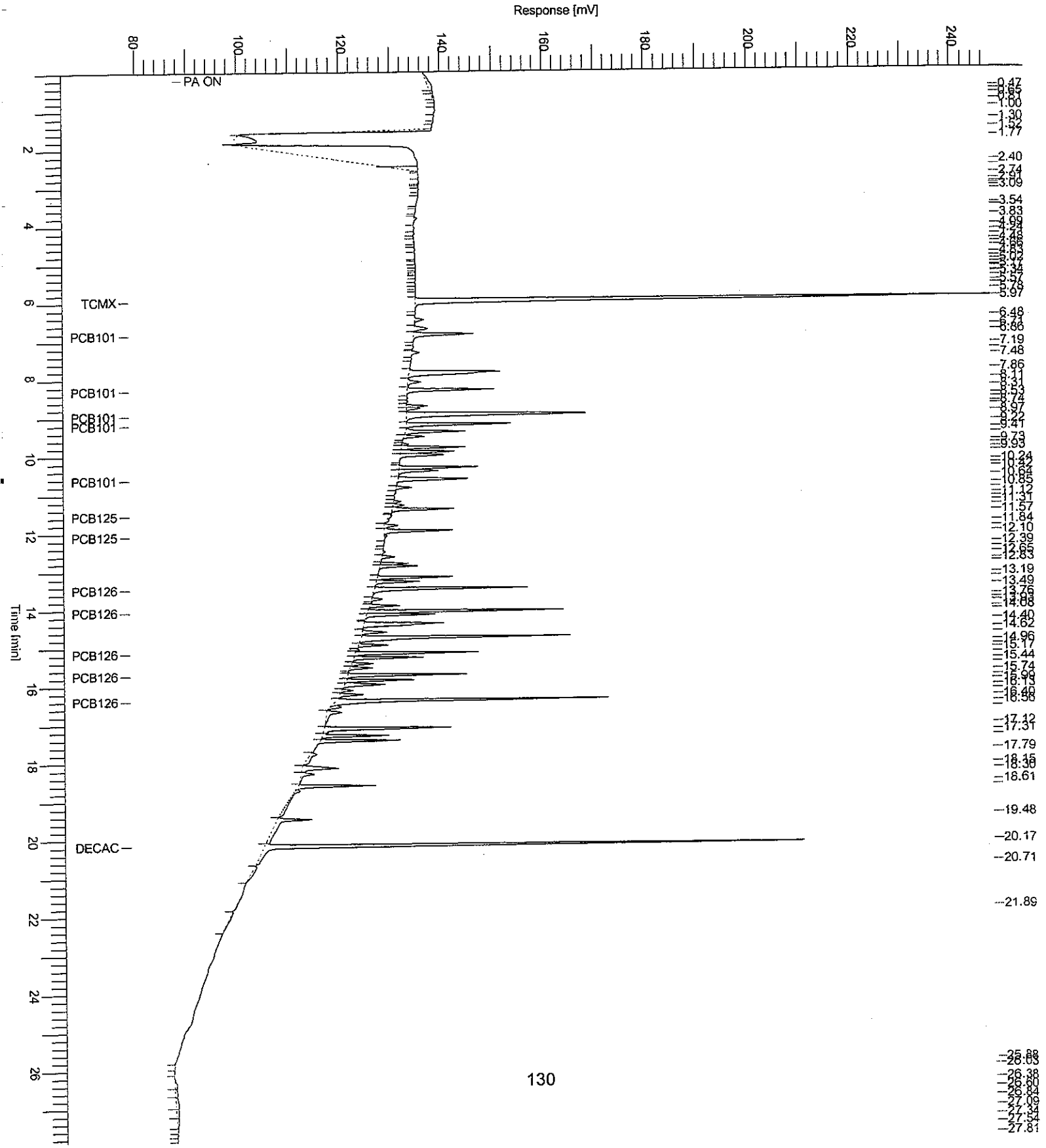
eName : G:\gc06\CHb\281b004.raw
le : 10/8/04 11:16:23 AM
thod :
Time of Injection: 10/7/04 8:11:23 PM
rt Time : 4.87 min End Time : 21.63 min Low Point : 96.90 mV High Point : 228.89 mV
t Offset: 96.90 mV Plot Scale: 132.0 mV



GC 06 Rtx-5

ample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l
eName : G:\gc06\CHb\281b004
ate : 10/8/04 11:02:48 AM
ethod : gc06fsa1ul Time of Injection: 10/7/04 8:11:23 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 78.67 mV High Point : 247.59 mV
cale Factor: 1.0 Plot Offset: 78.67 mV Plot Scale: 168.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/5
Sample Amount : 1.000000
Cycle : 5

Date : 10/8/04 11:10:21 AM
Data Acquisition Time : 10/7/04 8:44:36 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a005p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.107	613422.83	39.95	1.0000	1	39.95	7.99
Aroclor-1016	9.058	380920.39	137.07	1.0000	1	137.07	27.41
Aroclor-1254	15.380	266822.25	0.27	1.0000	1	0.27	0.05
Aroclor-1260	17.680	645926.18	138.47	1.0000	1	138.47	27.69
Decachlorobiphenyl	21.000	405017.26	31.18	1.0000	1	31.18	6.24
		2312108.91	346.94			346.94	69.39

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.107	75539.21	217.14	1.0000	1	217.14	43.43
PCB1016#2	9.058	126854.50	185.24	1.0000	1	185.24	37.05
PCB1016#3	10.783	61225.77	74.91	1.0000	1	74.91	14.98
PCB1016#4	11.250	44827.19	90.44	1.0000	1	90.44	18.09
PCB1016#5	11.667	72473.72	167.23	1.0000	1	167.23	33.45
		380920.39	734.96			734.96	146.99

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.003	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.380	207692.44	280.64	1.0000	1	280.64	56.13
PCB1254#5	16.453	59129.82	59.68	1.0000	1	59.68	11.94
		266822.25	340.33			340.33	68.07

10/8/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.703	121333.87	161.42	1.0000	1	161.42	32.28
PCB1260#2	15.685	72092.01	57.78	1.0000	1	57.78	11.56
PCB1260#3	16.337	112676.14	178.08	1.0000	1	178.08	35.62
PCB1260#4	16.938	95629.66	156.73	1.0000	1	156.73	31.35
PCB1260#5	17.680	244194.50	171.67	1.0000	1	171.67	34.33
		645926.18	725.67			725.67	145.13

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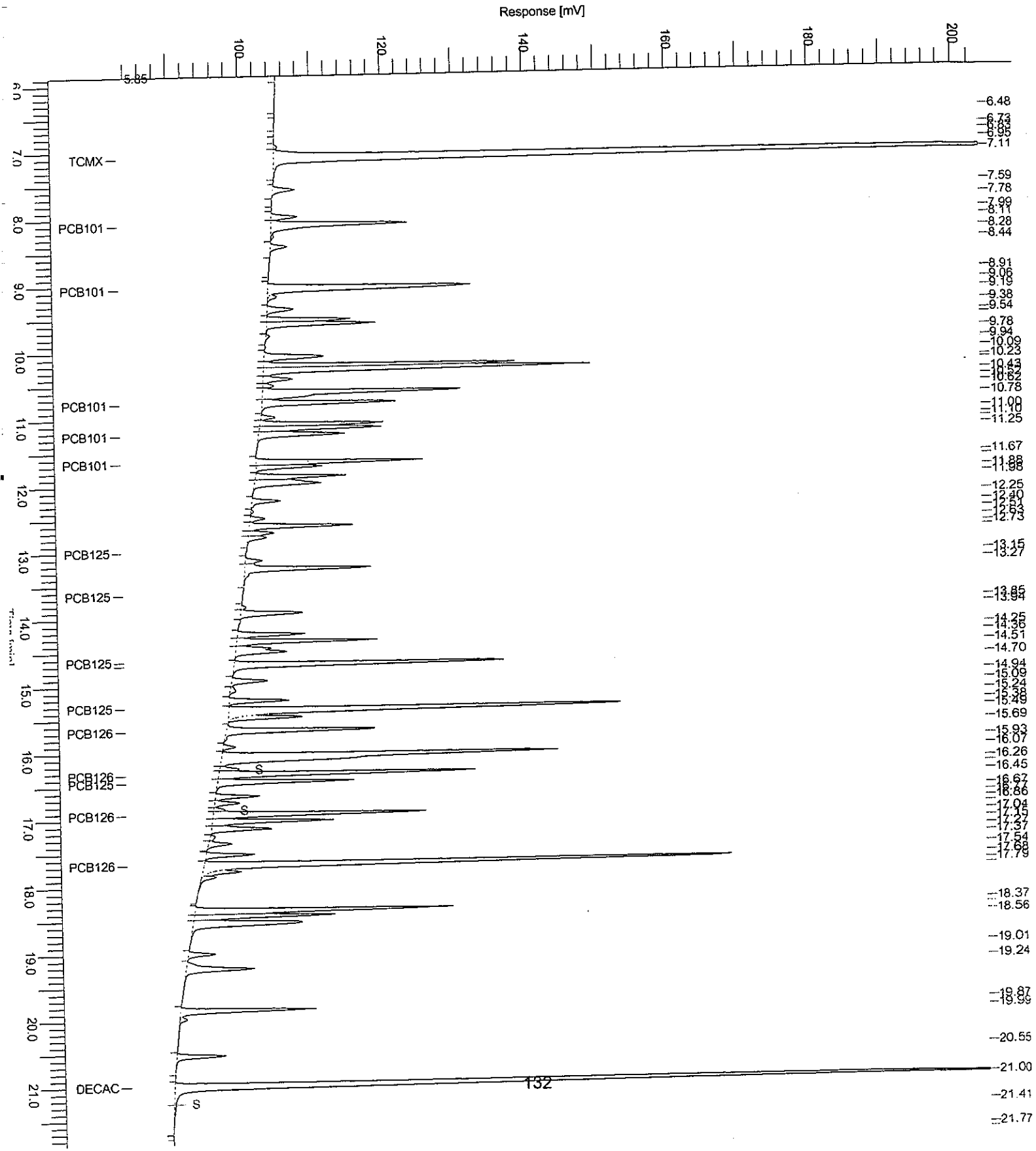
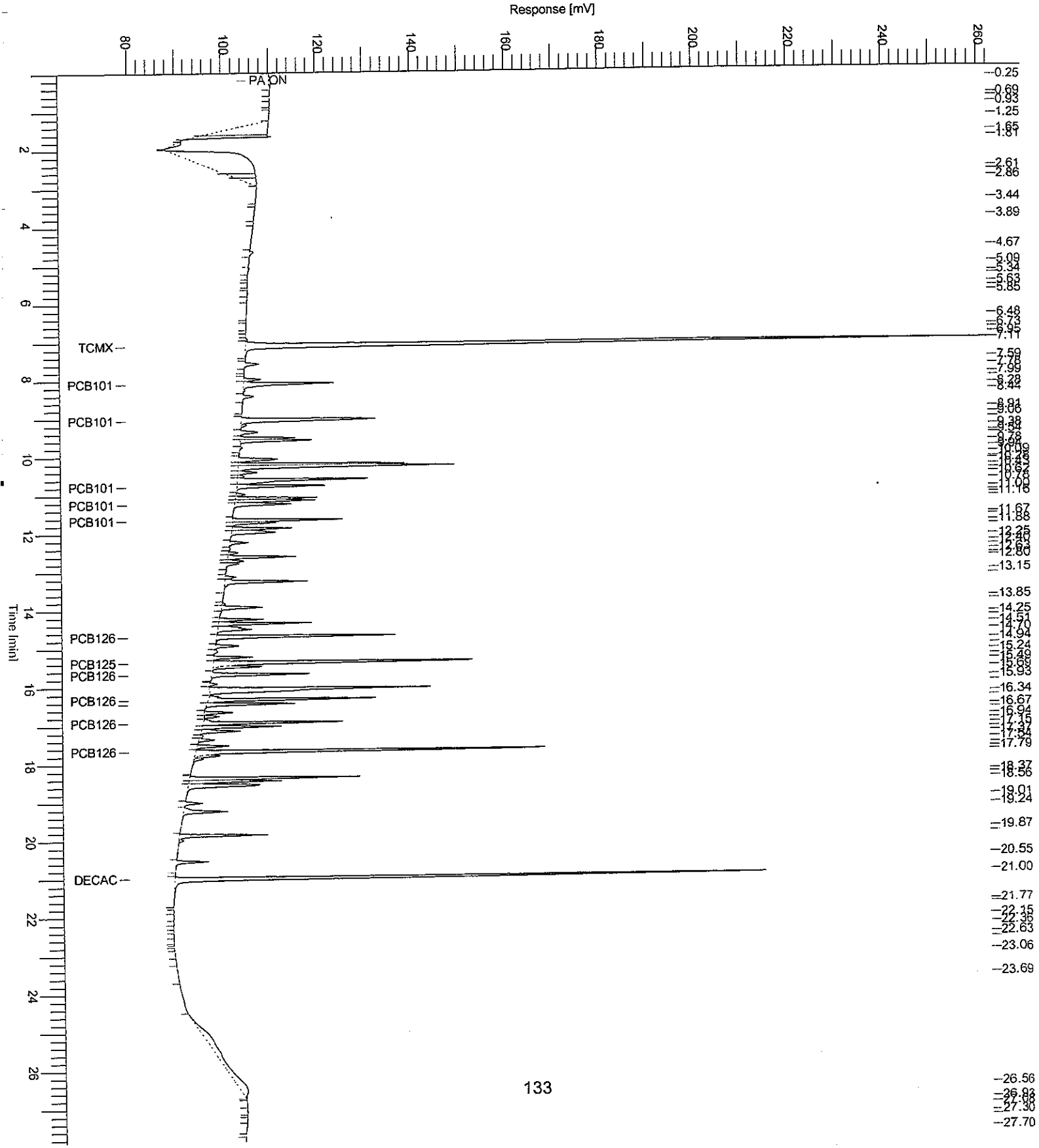
GC 06 Rtx-CLPesticides

ple Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHa\281a005.raw
: 10/8/04 11:10:26 AM
od :
Time of Injection: 10/7/04 8:44:36 PM
: Time : 5.88 min End Time : 21.88 min Low Point : 82.92 mV High Point : 203.56 mV
Offset: 82.92 mV Plot Scale: 120.6 mV



GC 06 Rtx-CLPesticides

mple Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\281a005.raw
te : 10/8/04 11:02:15 AM
thod : gc06fsa1ul Time of Injection: 10/7/04 8:44:36 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 79.34 mV High Point : 262.12 mV
ale Factor: 1.0 Plot Offset: 79.34 mV Plot Scale: 182.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/5
Sample Amount : 1.000000
Cycle : 5

Date : 10/8/04 11:16:58 AM
Data Acquisition Time : 10/7/04 8:44:36 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b005p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.973	889009.23	9.04	1.0000	1	9.04	1.81
Aroclor-1016	8.973	762614.38	151.00	1.0000	1	151.00	30.20
Aroclor-1254	12.106	7843.96	0.01	1.0000	1	0.01	0.00
Aroclor-1260	16.400	959485.00	69.17	1.0000	1	69.17	13.83
Decachlorobiphenyl	20.173	549736.43	35.07	1.0000	1	35.07	7.01
		3168688.99	264.28			264.28	52.86

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.858	92142.67	199.08	1.0000	1	199.08	39.82
PCB1016#2	8.307	113519.82	139.55	1.0000	1	139.55	27.91
PCB1016#3	8.973	320003.70	176.73	1.0000	1	176.73	35.35
PCB1016#4	9.213	133998.87	152.25	1.0000	1	152.25	30.45
PCB1016#5	10.641	102949.32	95.03	1.0000	1	95.03	19.01
		762614.38	762.63			762.63	152.53

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.574	2095.04	2.16	1.0000	1	2.16	0.43
PCB1254#2	12.106	5748.91	4.19	1.0000	1	4.19	0.84
PCB1254#3	13.030	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		7843.96	6.35			6.35	1.27

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.480	185324.24	27.83	1.0000	1	27.83	5.57
PCB1260#2	14.080	202823.14	61.39	1.0000	1	61.39	12.28
PCB1260#3	15.160	132908.36	121.99	1.0000	1	121.99	24.40
PCB1260#4	15.733	129206.08	213.53	1.0000	1	213.53	42.71
PCB1260#5	16.400	309223.18	139.69	1.0000	1	139.69	27.94
		959485.00	564.43			564.43	112.89

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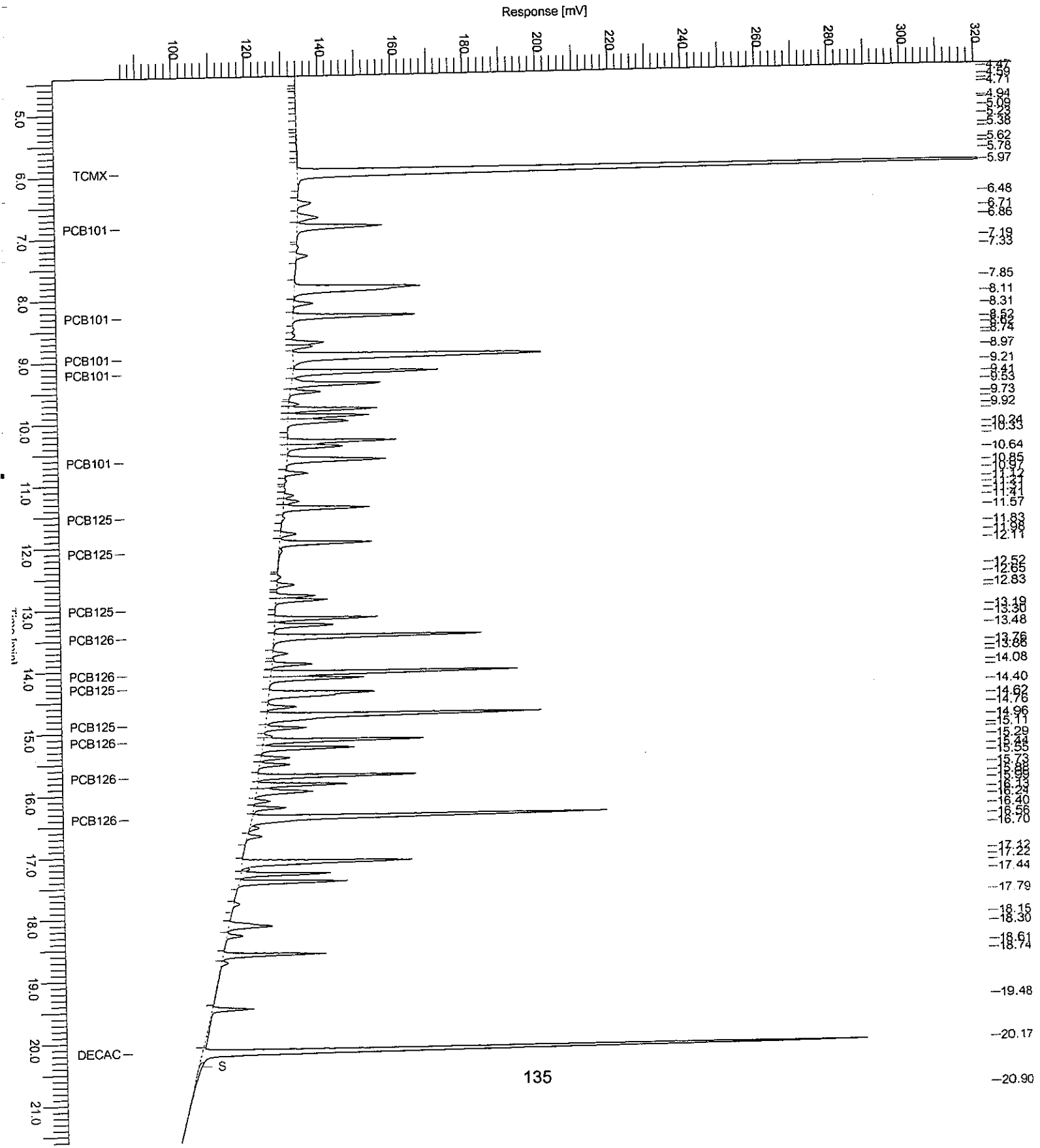
Report stored in ASCII file: G:\gc06\chb\281b005p.TX0

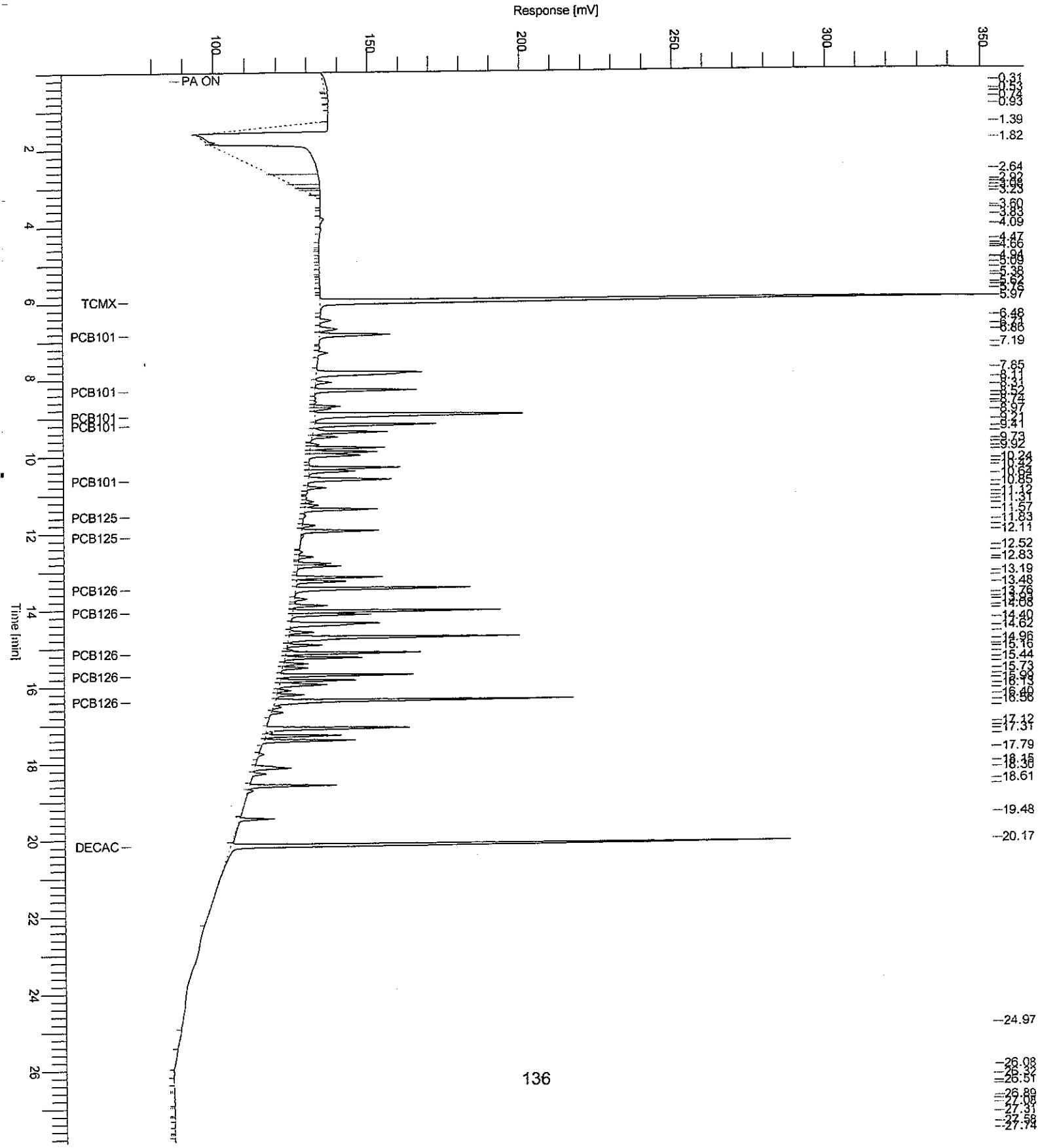
GC 06 Rtx-5

ıple Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHb\281b005.raw
e : 10/8/04 11:17:02 AM
nod :
Time of Injection: 10/7/04 8:44:36 PM
t Time : 4.43 min End Time : 21.63 min Low Point : 85.35 mV High Point : 320.94 mV
Offset: 85.35 mV Plot Scale: 235.6 mV



GC 06 Rtx-5

ample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\281b005
ate : 10/8/04 11:02:53 AM
ethod : gc06fsa1ul Time of Injection: 10/7/04 8:44:36 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 72.10 mV High Point : 352.74 mV
cale Factor: 1.0 Plot Offset: 72.10 mV Plot Scale: 280.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1790,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/6
Sample Amount : 1.000000
Cycle : 6

Date : 10/8/04 11:11:42 AM
Data Acquisition Time : 10/7/04 9:17:48 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a006p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.107	1242752.80	80.94	1.0000	1	80.94	16.19
Aroclor-1016	9.053	789414.87	284.06	1.0000	1	284.06	56.81
Aroclor-1254	16.453	131479.64	0.13	1.0000	1	0.13	0.03
Aroclor-1260	17.680	1396069.87	299.28	1.0000	1	299.28	59.86
Decachlorobiphenyl	21.000	843609.48	64.95	1.0000	1	64.95	12.99
		4403326.66	729.35			729.35	145.87

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.107	153711.51	441.86	1.0000	1	441.86	88.37
PCB1016#2	9.053	254955.64	372.30	1.0000	1	372.30	74.46
PCB1016#3	10.784	131397.89	160.77	1.0000	1	160.77	32.15
PCB1016#4	11.251	94994.59	191.65	1.0000	1	191.65	38.33
PCB1016#5	11.668	154355.25	356.18	1.0000	1	356.18	71.24
		789414.87	1522.75			1522.75	304.55

10/8/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.003	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.332	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	16.453	131479.64	132.71	1.0000	1	132.71	26.54
		131479.64	132.71			132.71	26.54

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.707	255835.10	340.35	1.0000	1	340.35	68.07
PCB1260#2	15.688	159838.64	128.10	1.0000	1	128.10	25.62
PCB1260#3	16.333	242214.01	382.81	1.0000	1	382.81	76.56
PCB1260#4	16.941	210697.94	345.31	1.0000	1	345.31	69.06
PCB1260#5	17.680	527484.18	370.82	1.0000	1	370.82	74.16
		1396069.87	1567.40			1567.40	313.48

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Report stored in ASCII file: G:\gc06\cha\281a006p.TX0

GC 06 Rtx-CLPesticides

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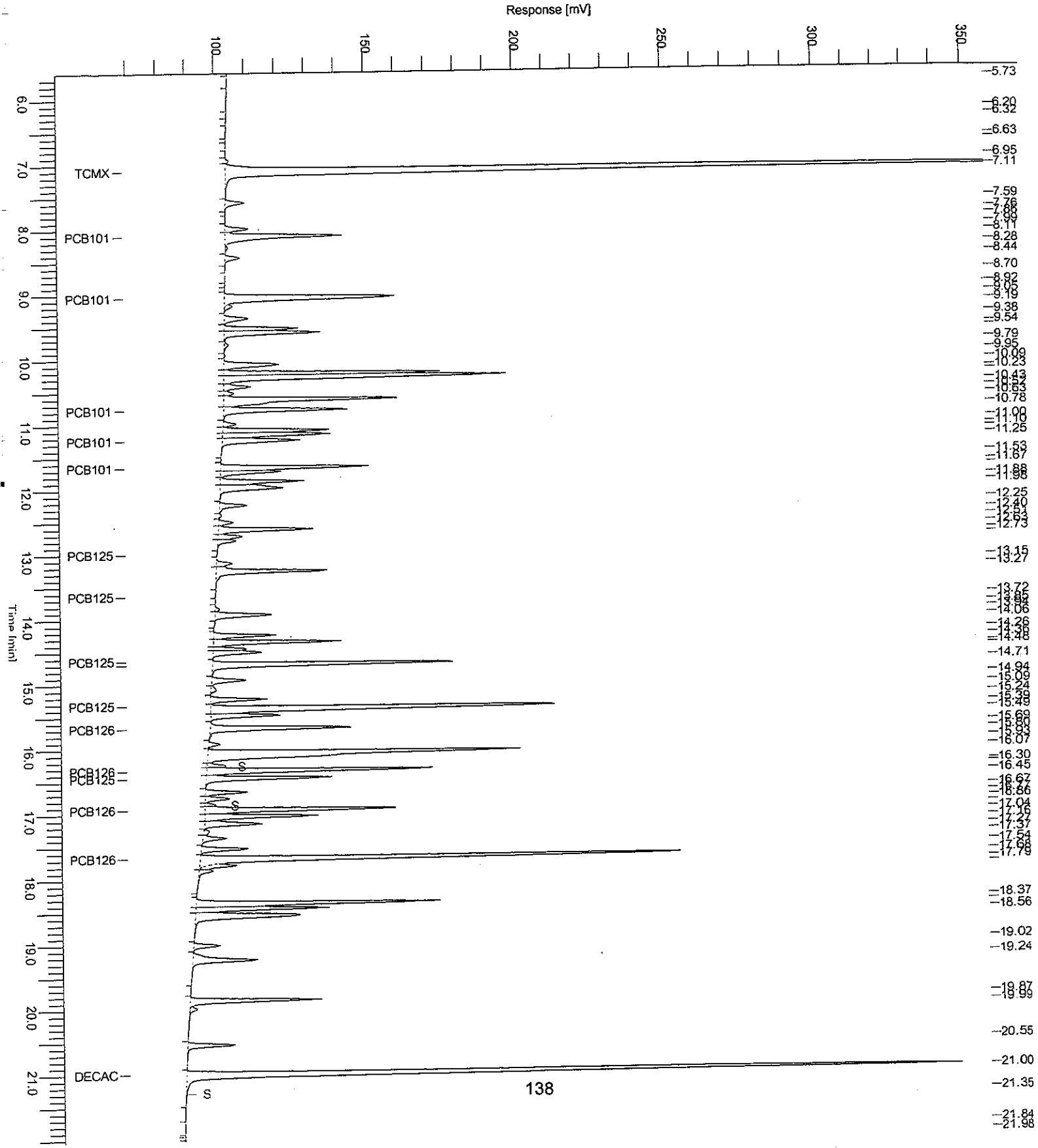
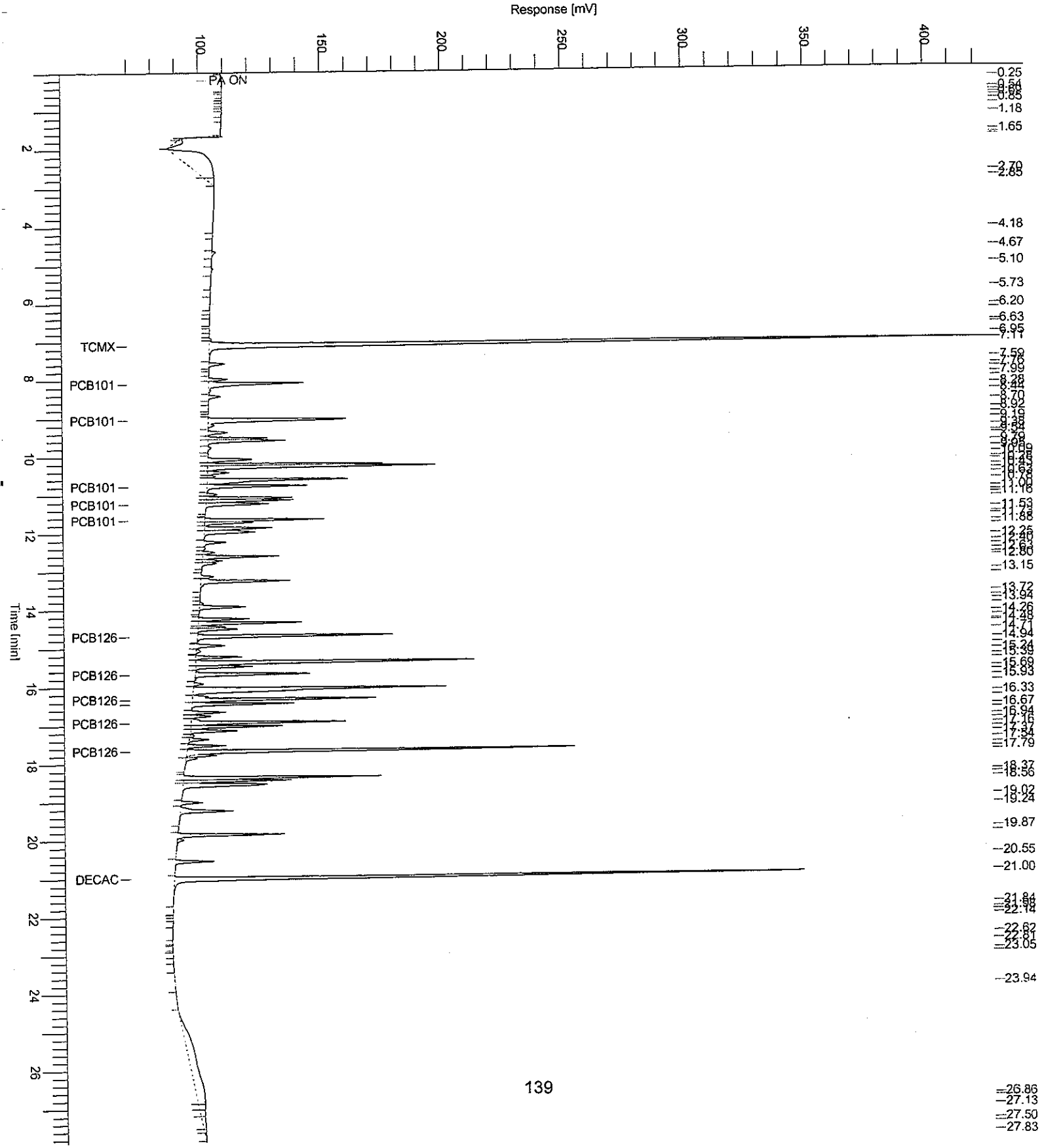
:Name : G:\gc06\CHa\281a006.raw
te : 10/8/04 11:11:47 AM
thod :
Time of Injection: 10/7/04 9:17:48 PM
rt Time : 5.60 min End Time : 22.04 min Low Point : 68.86 mV High Point : 357.60 mV
t Offset: 68.86 mV Plot Scale: 288.7 mV



GC 06 Rtx-CLPesticides

mple Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l
eName : G:\gc06\CHa\281a006.raw
ate : 10/8/04 11:02:20 AM Time of Injection: 10/7/04 9:17:48 PM
ethod : gc06fsa1ul
art Time : 0.00 min End Time : 27.88 min Low Point : 69.76 mV High Point : 426.58 mV
cale Factor: 1.0 Plot Offset: 69.76 mV Plot Scale: 356.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1790,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/6
Sample Amount : 1.000000
Cycle : 6

Date : 10/8/04 11:17:35 AM
Data Acquisition Time : 10/7/04 9:17:48 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b006p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.973	1761872.72	17.92	1.0000	1	17.92	3.58
Aroclor-1016	8.973	1601893.83	317.17	1.0000	1	317.17	63.43
Aroclor-1254	12.107	10810.81	0.01	1.0000	1	0.01	0.00
Aroclor-1260	16.400	2002734.44	144.38	1.0000	1	144.38	28.88
Decachlorobiphenyl	20.173	1100217.41	70.18	1.0000	1	70.18	14.04
		6477529.22	549.67			549.67	109.93

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.853	185813.15	401.46	1.0000	1	401.46	80.29
PCB1016#2	8.320	229925.45	282.64	1.0000	1	282.64	56.53
PCB1016#3	8.973	673168.68	371.77	1.0000	1	371.77	74.35
PCB1016#4	9.213	289939.30	329.42	1.0000	1	329.42	65.88
PCB1016#5	10.640	223047.25	205.88	1.0000	1	205.88	41.18
		1601893.83	1591.18			1591.18	318.24

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.577	4166.49	4.29	1.0000	1	4.29	0.86
PCB1254#2	12.107	6644.32	4.84	1.0000	1	4.84	0.97
PCB1254#3	13.030	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		10810.81	9.13			9.13	1.83

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.493	382313.13	57.42	1.0000	1	57.42	11.48
PCB1260#2	14.080	416168.18	125.96	1.0000	1	125.96	25.19
PCB1260#3	15.173	276783.93	254.04	1.0000	1	254.04	50.81
PCB1260#4	15.747	277506.23	458.62	1.0000	1	458.62	91.72
PCB1260#5	16.400	649962.97	293.63	1.0000	1	293.63	58.73
		2002734.44	1189.66			1189.66	237.93

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Report stored in ASCII file: G:\gc06\chb\281b006p.TX0

GC 06 Rtx-5

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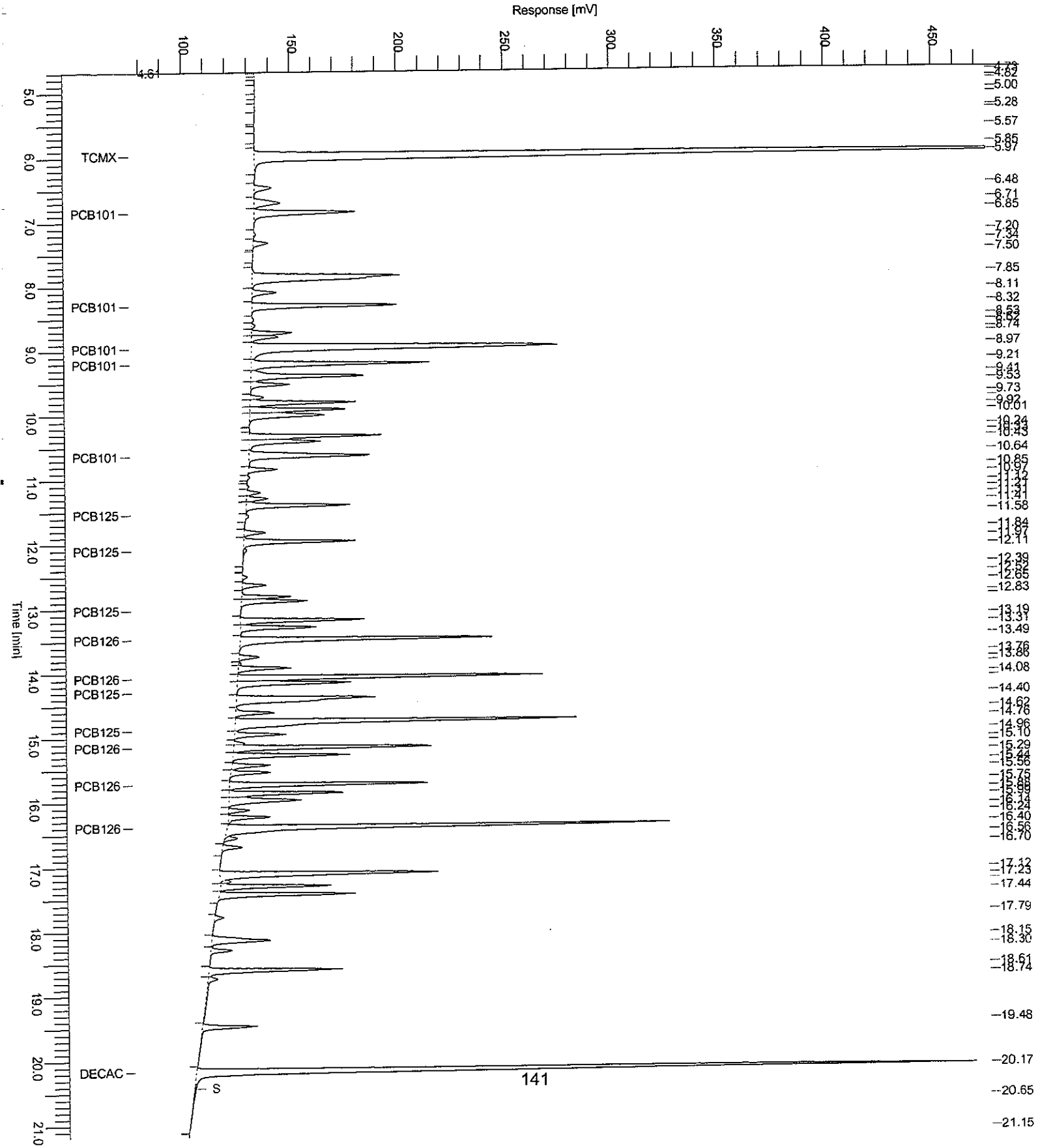
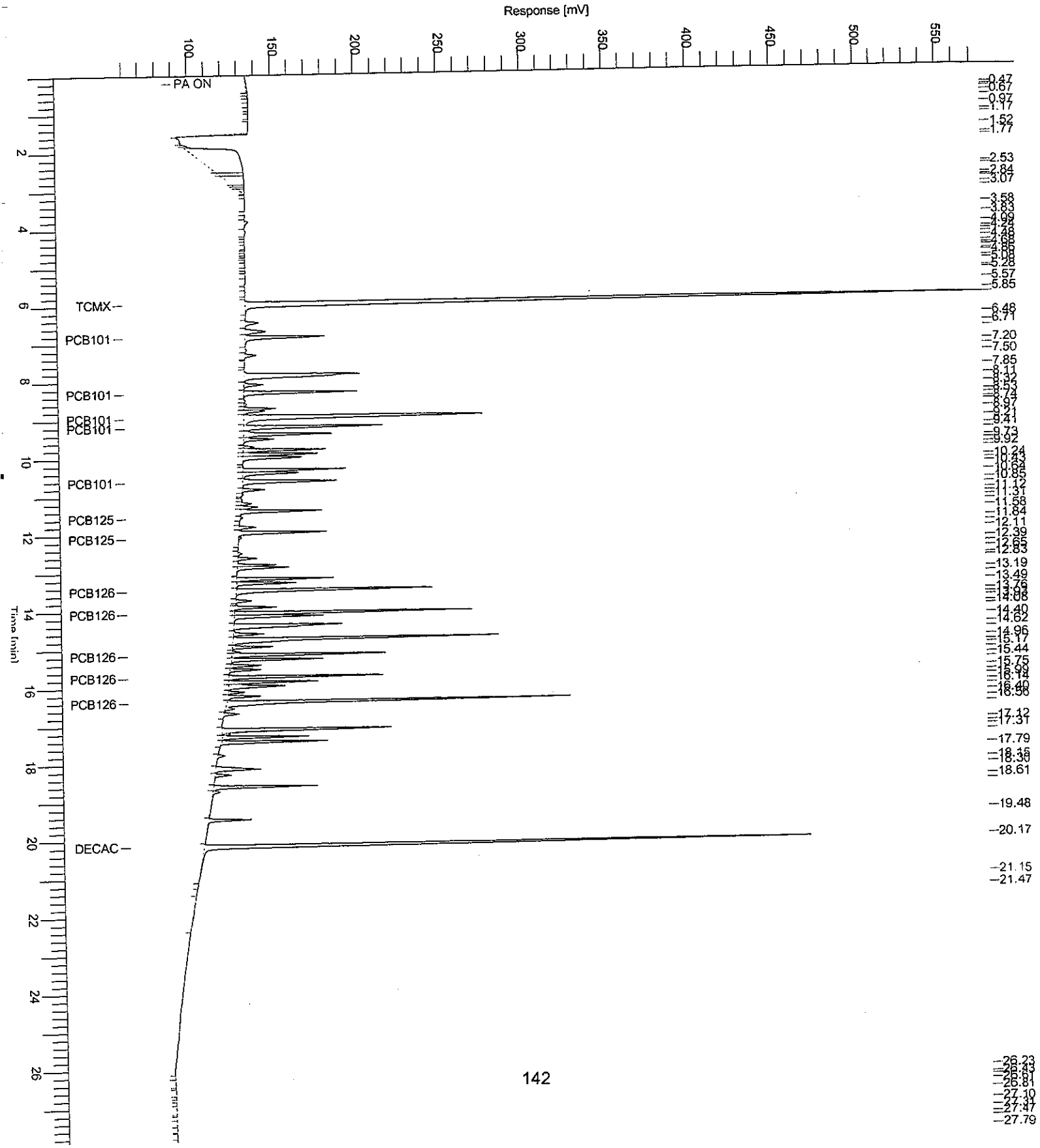
ate : 10/8/04 11:17:40 AM
ethod :
Time of Injection: 10/7/04 9:17:48 PM
art Time : 4.69 min End Time : 21.19 min Low Point : 75.36 mV High Point : 475.24 mV
ot Offset: 75.36 mV Plot Scale: 399.9 mV



GC 06 Rtx-5

ıple Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHb\281b006
e : 10/8/04 11:02:59 AM
hod : gc06fsa1ul Time of Injection: 10/7/04 9:17:48 PM
t Time : 0.00 min End Time : 27.88 min Low Point : 59.51 mV High Point : 576.62 mV
le Factor: 1.0 Plot Offset: 59.51 mV Plot Scale: 517.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/7
Sample Amount : 1.000000
Cycle : 7

Date : 10/8/04 11:12:29 AM
Data Acquisition Time : 10/7/04 9:51:01 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a007p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.107	2118426.16	137.97	1.0000	1	137.97	27.59
Aroclor-1016	9.053	1355897.35	487.90	1.0000	1	487.90	97.58
Aroclor-1254	16.453	236917.88	0.24	1.0000	1	0.24	0.05
Aroclor-1260	17.680	2470646.06	529.64	1.0000	1	529.64	105.93
Decachlorobiphenyl	21.000	1436982.42	110.63	1.0000	1	110.63	22.13
		7618869.86	1266.37			1266.37	253.27

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.107	261362.43	751.31	1.0000	1	751.31	150.26
PCB1016#2	9.053	430665.90	628.88	1.0000	1	628.88	125.78
PCB1016#3	10.787	231121.92	282.78	1.0000	1	282.78	56.56
PCB1016#4	11.251	166694.19	336.30	1.0000	1	336.30	67.26
PCB1016#5	11.667	266052.91	613.92	1.0000	1	613.92	122.78
		1355897.35	2613.19			2613.19	522.64

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.979	781.14	1.46	1.0000	1	1.46	0.29
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.332	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	16.453	236136.74	238.34	1.0000	1	238.34	47.67
		236917.88	239.81			239.81	47.96

10/8/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.707	438742.41	583.68	1.0000	1	583.68	116.74
PCB1260#2	15.693	296493.37	237.62	1.0000	1	237.62	47.52
PCB1260#3	16.333	424186.64	670.41	1.0000	1	670.41	134.08
PCB1260#4	16.933	381780.81	625.70	1.0000	1	625.70	125.14
PCB1260#5	17.680	929442.83	653.40	1.0000	1	653.40	130.68
		2470646.06	2770.82			2770.82	554.16

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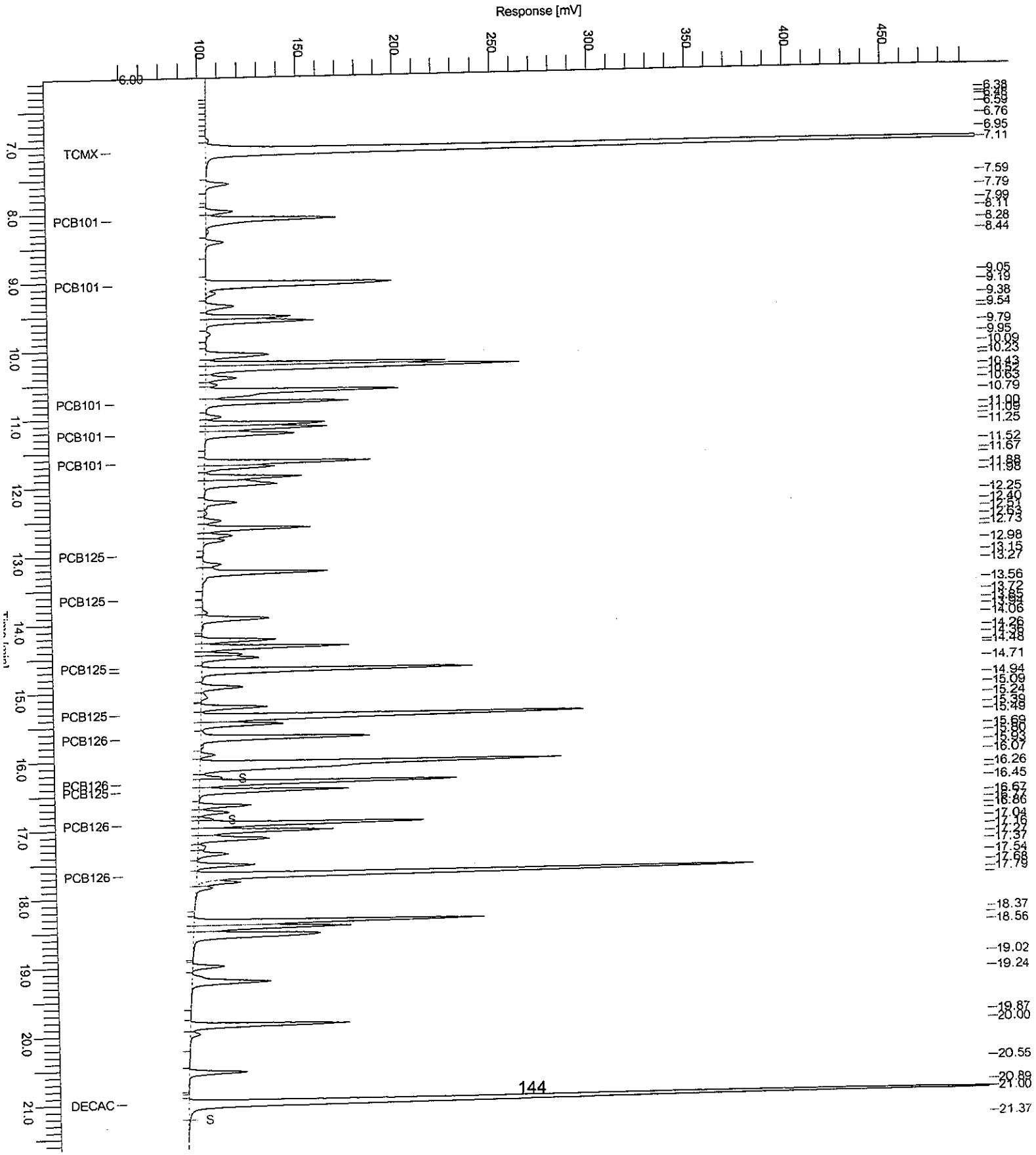
GC 06 Rtx-CLPesticides

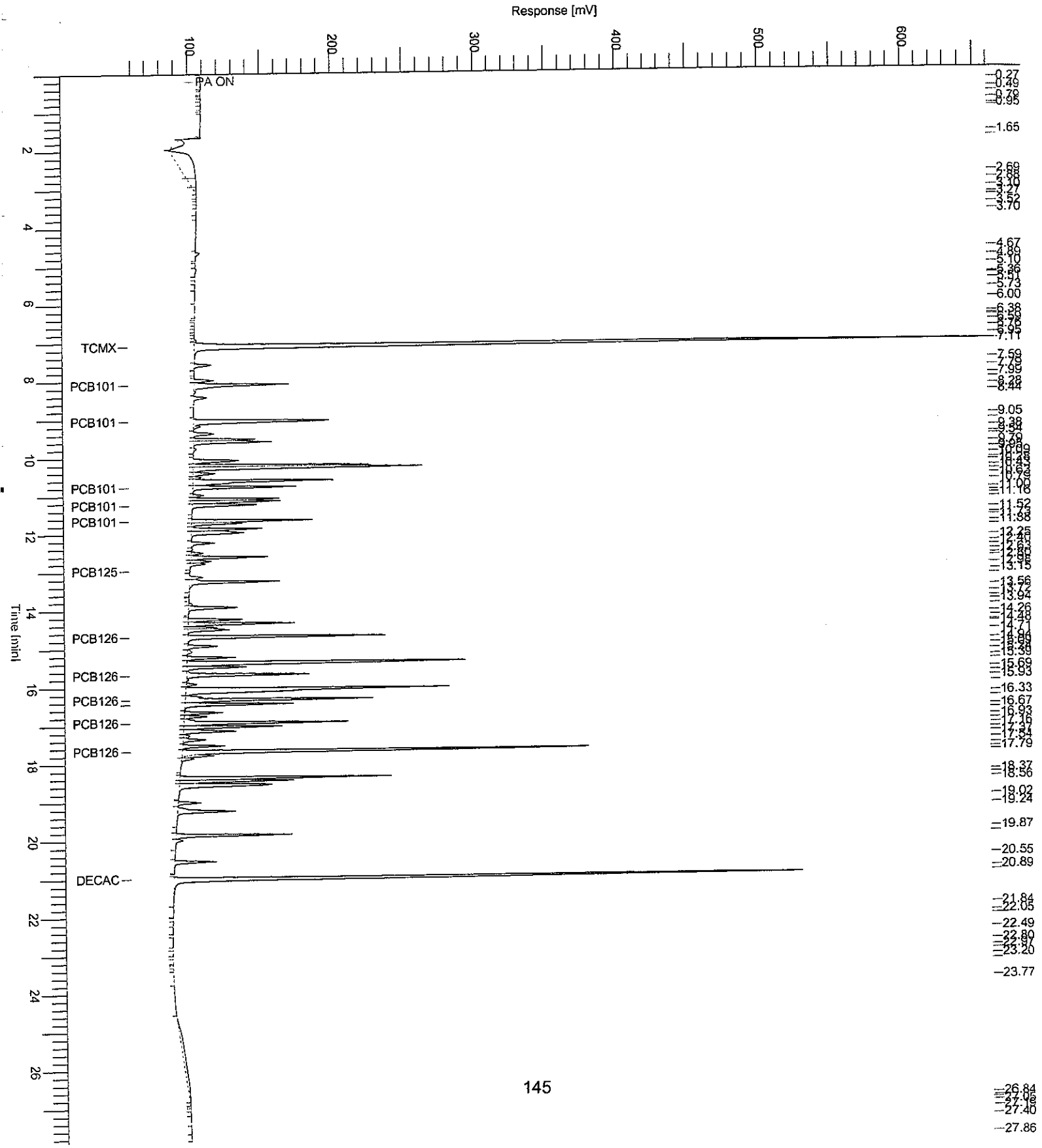
ıple Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l
Name : G:\gc06\CHa\281a007.raw
e : 10/8/04 11:12:33 AM
hod :
1 Time : 6.04 min End Time : 21.67 min Low Point : 55.60 mV High Point : 497.29 mV
: Offset: 55.60 mV Plot Scale: 441.7 mV

Time of Injection: 10/7/04 9:51:01 PM



GC 06 Rtx-CLPesticides

ımple Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l
eName : G:\gc06\CHa\281a007.raw
ıte : 10/8/04 11:02:26 AM
ethod : gc06fsa1ul Time of Injection: 10/7/04 9:51:01 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 57.11 mV High Point : 660.63 mV
cale Factor: 1.0 Plot Offset: 57.11 mV Plot Scale: 603.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/7
Sample Amount : 1.000000
Cycle : 7

Date : 10/8/04 11:18:14 AM
Data Acquisition Time : 10/7/04 9:51:01 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b007p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.973	2955556.59	30.06	1.0000	1	30.06	6.01
Aroclor-1016	8.960	2718165.35	538.19	1.0000	1	538.19	107.64
Aroclor-1254	12.107	16716.14	0.02	1.0000	1	0.02	0.00
Aroclor-1260	16.400	3500613.37	252.37	1.0000	1	252.37	50.47
Decachlorobiphenyl	20.173	1828379.31	116.63	1.0000	1	116.63	23.33
		11019430.76	937.27			937.27	187.45

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.853	323132.53	698.15	1.0000	1	698.15	139.63
PCB1016#2	8.307	383696.98	471.67	1.0000	1	471.67	94.33
PCB1016#3	8.960	1135856.41	627.30	1.0000	1	627.30	125.46
PCB1016#4	9.213	488833.54	555.40	1.0000	1	555.40	111.08
PCB1016#5	10.640	386645.88	356.90	1.0000	1	356.90	71.38
		2718165.35	2709.41			2709.41	541.88

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.576	7472.96	7.70	1.0000	1	7.70	1.54
PCB1254#2	12.107	9243.18	6.73	1.0000	1	6.73	1.35
PCB1254#3	13.030	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		16716.14	14.43			14.43	2.89

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.480	653430.84	98.13	1.0000	1	98.13	19.63
PCB1260#2	14.080	710247.16	214.96	1.0000	1	214.96	42.99
PCB1260#3	15.160	480405.99	440.93	1.0000	1	440.93	88.19
PCB1260#4	15.747	492390.81	813.75	1.0000	1	813.75	162.75
PCB1260#5	16.400	1164138.56	525.91	1.0000	1	525.91	105.18
		3500613.37	2093.68			2093.68	418.74

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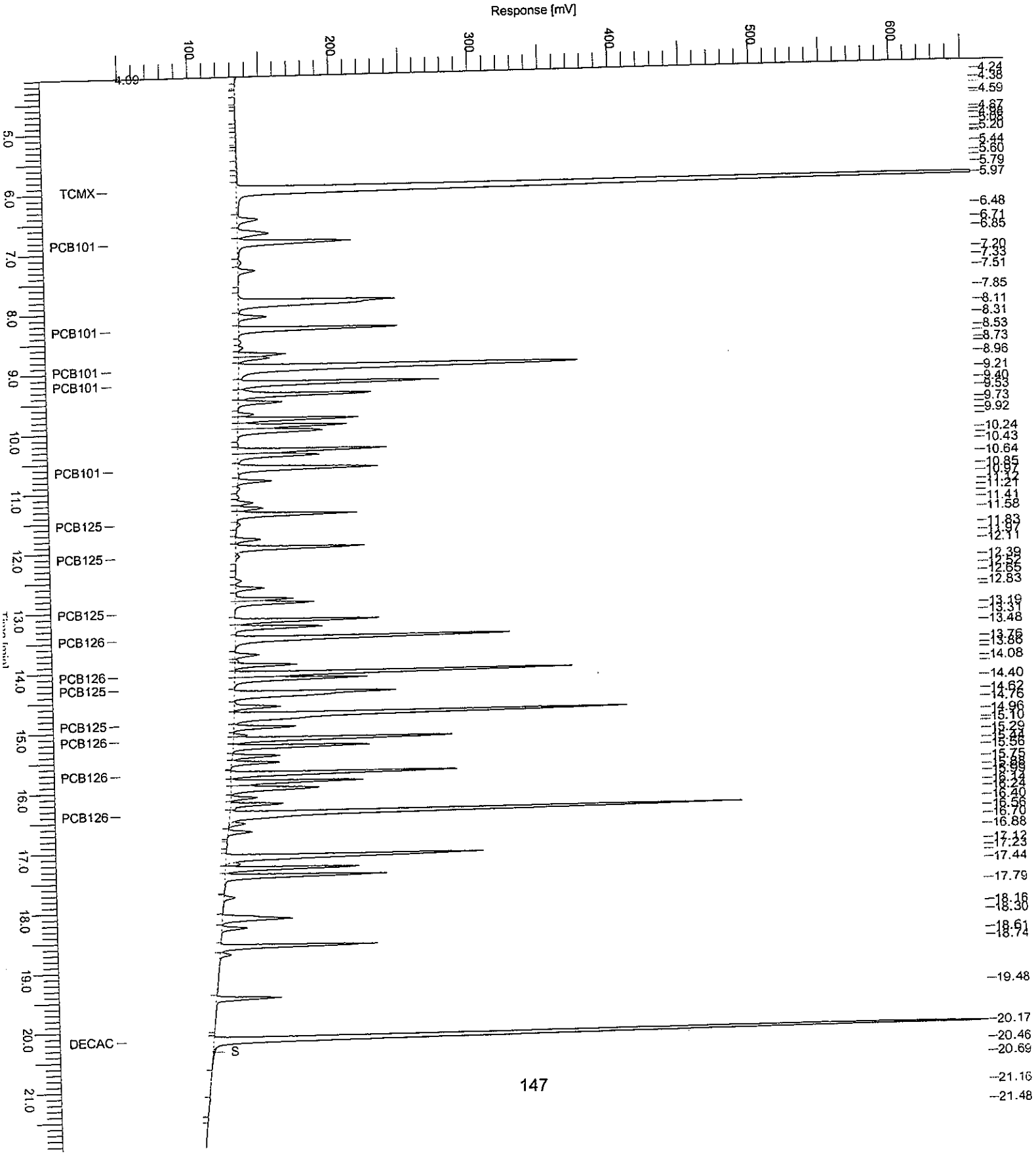
Report stored in ASCII file: G:\gc06\chb\281b007p.TX0

GC 06 Rtx-5

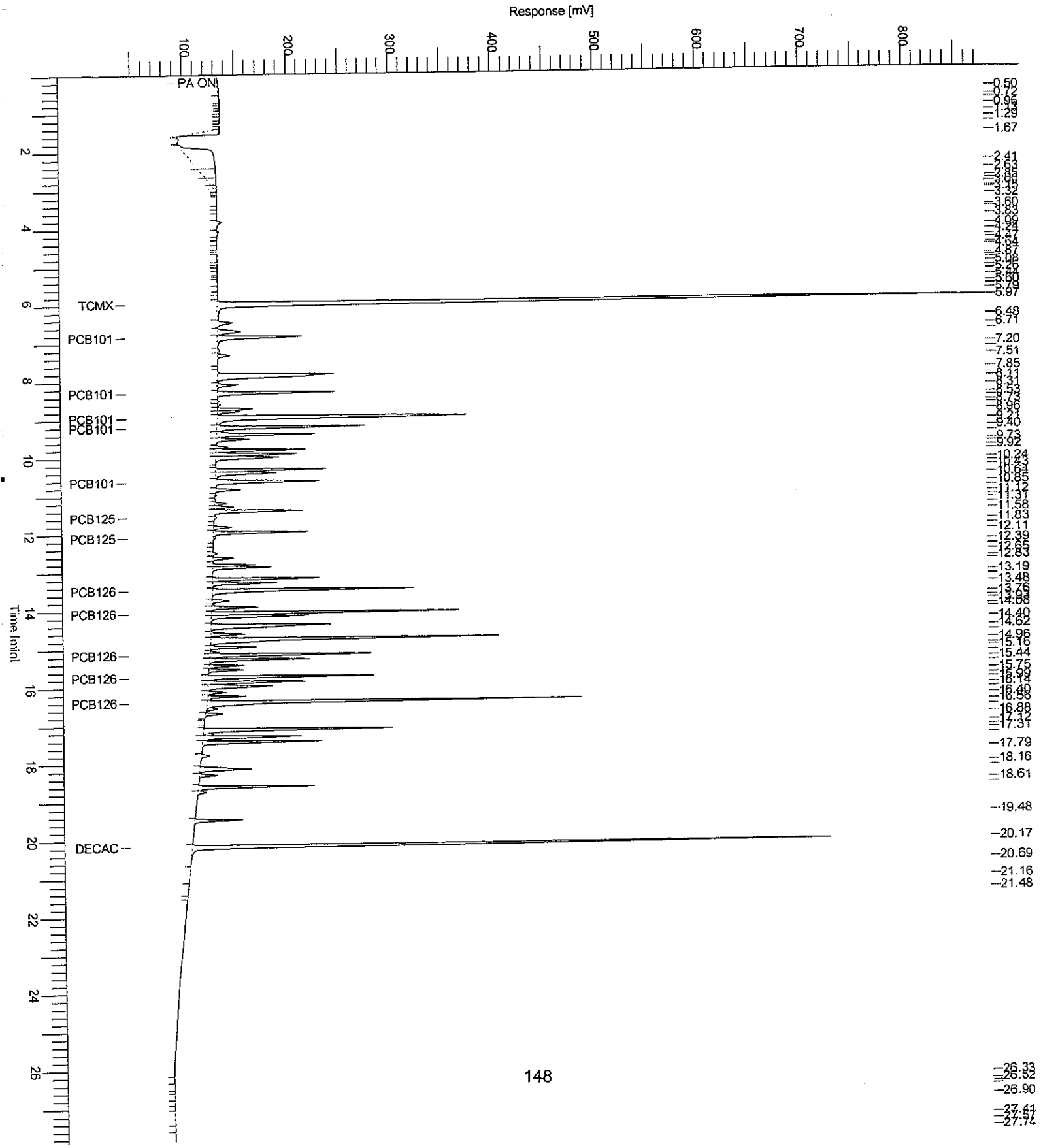
ple Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHb\281b007.raw
: 10/8/04 11:18:19 AM
od :
t Time : 4.09 min End Time : 21.96 min Low Point : 41.87 mV High Point : 655.90 mV
Offset: 41.87 mV Plot Scale: 614.0 mV

Time of Injection: 10/7/04 9:51:01 PM



GC 06 Rbx-5

mple Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\281b007
te : 10/8/04 11:03:04 AM
thod : gc06fsa1ul Time of Injection: 10/7/04 9:51:01 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 43.97 mV High Point : 879.73 mV
ale Factor: 1.0 Plot Offset: 43.97 mV Plot Scale: 835.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,cb1k_200
Instrument Name : gc06
Rack/Vial : 1/8
Sample Amount : 1.000000
Cycle : 8

Date : 10/8/04 11:13:15 AM
Data Acquisition Time : 10/7/04 10:24:14 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a008p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.107	2543634.54	165.67	1.0000	1	165.67	33.13
Aroclor-1016	9.053	1630264.06	586.63	1.0000	1	586.63	117.33
Aroclor-1254	16.453	287288.94	0.29	1.0000	1	0.29	0.06
Aroclor-1260	17.693	2969437.79	636.56	1.0000	1	636.56	127.31
Decachlorobiphenyl	21.000	1716590.21	132.15	1.0000	1	132.15	26.43
		9147215.55	1521.29			1521.29	304.26

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.107	313198.15	900.31	1.0000	1	900.31	180.06
PCB1016#2	9.053	512515.34	748.40	1.0000	1	748.40	149.68
PCB1016#3	10.787	281446.82	344.35	1.0000	1	344.35	68.87
PCB1016#4	11.252	200956.84	405.43	1.0000	1	405.43	81.09
PCB1016#5	11.667	322146.91	743.36	1.0000	1	743.36	148.67
		1630264.06	3141.85			3141.85	628.37

10/8/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.986	613.30	1.15	1.0000	1	1.15	0.23
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.332	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	16.453	286675.64	289.36	1.0000	1	289.36	57.87
		287288.94	290.51			290.51	58.10

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.707	526977.30	701.07	1.0000	1	701.07	140.21
PCB1260#2	15.693	361388.35	289.63	1.0000	1	289.63	57.93
PCB1260#3	16.347	506248.08	800.11	1.0000	1	800.11	160.02
PCB1260#4	16.947	464738.95	761.66	1.0000	1	761.66	152.33
PCB1260#5	17.693	1110085.11	780.40	1.0000	1	780.40	156.08
		2969437.79	3332.86			3332.86	666.57

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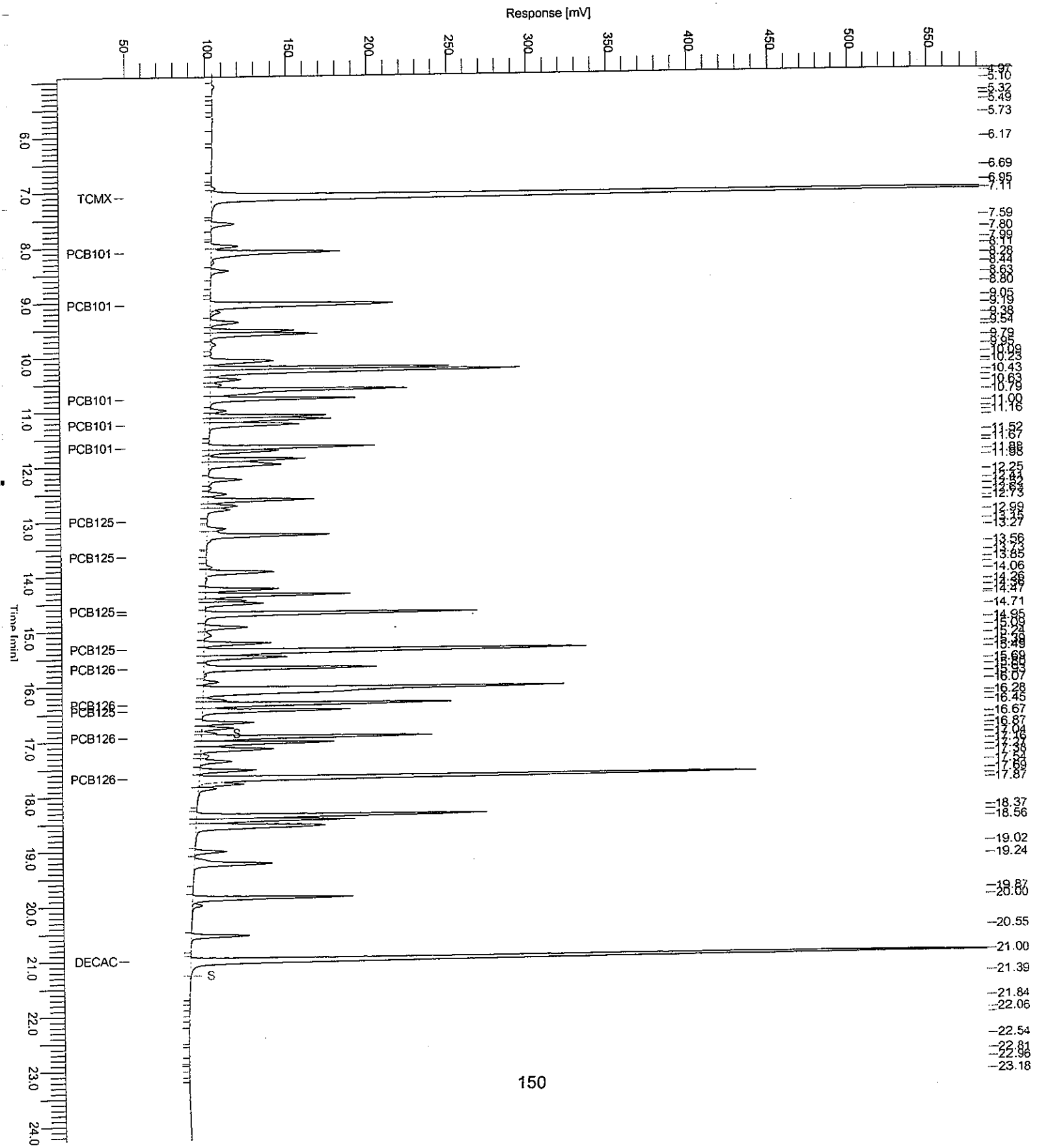
Report stored in ASCII file: G:\gc06\cha\281a008p.TX0

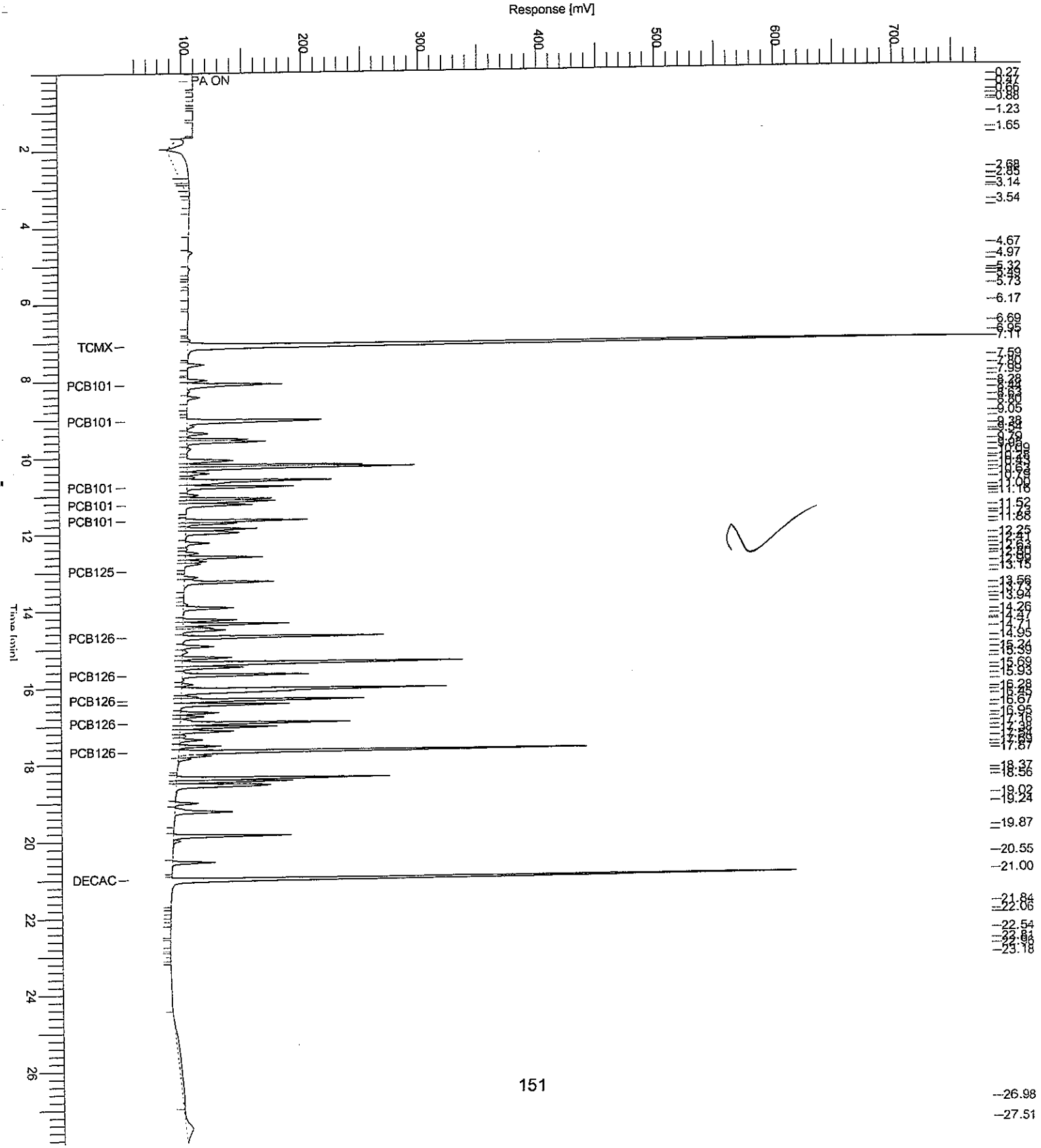
GC 06 Rtx-CLPesticides

nple Name : ical,04ws1792,cb1k_200 Sample #: 250ug/l
Name : G:\gc06\CHa\281a008.raw
e : 10/8/04 11:13:21 AM
thod :
Time of Injection: 10/7/04 10:24:14 PM
rt Time : 4.92 min End Time : 24.27 min Low Point : 48.70 mV High Point : 581.10 mV
t Offset: 48.70 mV Plot Scale: 532.4 mV



GC 06 Rtx-CLPesticides

nple Name : ical,04ws1792,cb1k_200 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHa\281a008.raw
e : 10/8/04 11:02:31 AM
thod : gc06fsa1ul Time of Injection: 10/7/04 10:24:14 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 50.53 mV High Point : 778.15 mV
ale Factor: 1.0 Plot Offset: 50.53 mV Plot Scale: 727.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,cb1k_200
Instrument Name : gc06
Rack/Vial : 1/8
Sample Amount : 1.000000
Cycle : 8

Date : 10/8/04 11:18:48 AM
Data Acquisition Time : 10/7/04 10:24:14 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b008p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.973	3457812.11	35.16	1.0000	1	35.16	7.03
Aroclor-1016	8.973	3233978.85	640.32	1.0000	1	640.32	128.06
Aroclor-1254	12.109	20835.96	0.02	1.0000	1	0.02	0.00
Aroclor-1260	16.400	4200426.50	302.82	1.0000	1	302.82	60.56
Decachlorobiphenyl	20.173	2179241.33	139.01	1.0000	1	139.01	27.80
		13092294.74	1117.34			1117.34	223.47

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.853	365512.83	789.71	1.0000	1	789.71	157.94
PCB1016#2	8.320	455910.60	560.44	1.0000	1	560.44	112.09
PCB1016#3	8.973	1360590.09	751.41	1.0000	1	751.41	150.28
PCB1016#4	9.213	587336.29	667.31	1.0000	1	667.31	133.46
PCB1016#5	10.640	464629.03	428.88	1.0000	1	428.88	85.78
		3233978.85	3197.75			3197.75	639.55

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.578	9436.84	9.73	1.0000	1	9.73	1.95
PCB1254#2	12.109	11399.12	8.30	1.0000	1	8.30	1.66
PCB1254#3	13.030	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		20835.96	18.03			18.03	3.61

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.493	788751.47	118.46	1.0000	1	118.46	23.69
PCB1260#2	14.080	848591.93	256.83	1.0000	1	256.83	51.37
PCB1260#3	15.173	575152.13	527.89	1.0000	1	527.89	105.58
PCB1260#4	15.747	595807.00	984.66	1.0000	1	984.66	196.93
PCB1260#5	16.400	1392123.98	628.91	1.0000	1	628.91	125.78
		4200426.50	2516.74			2516.74	503.35

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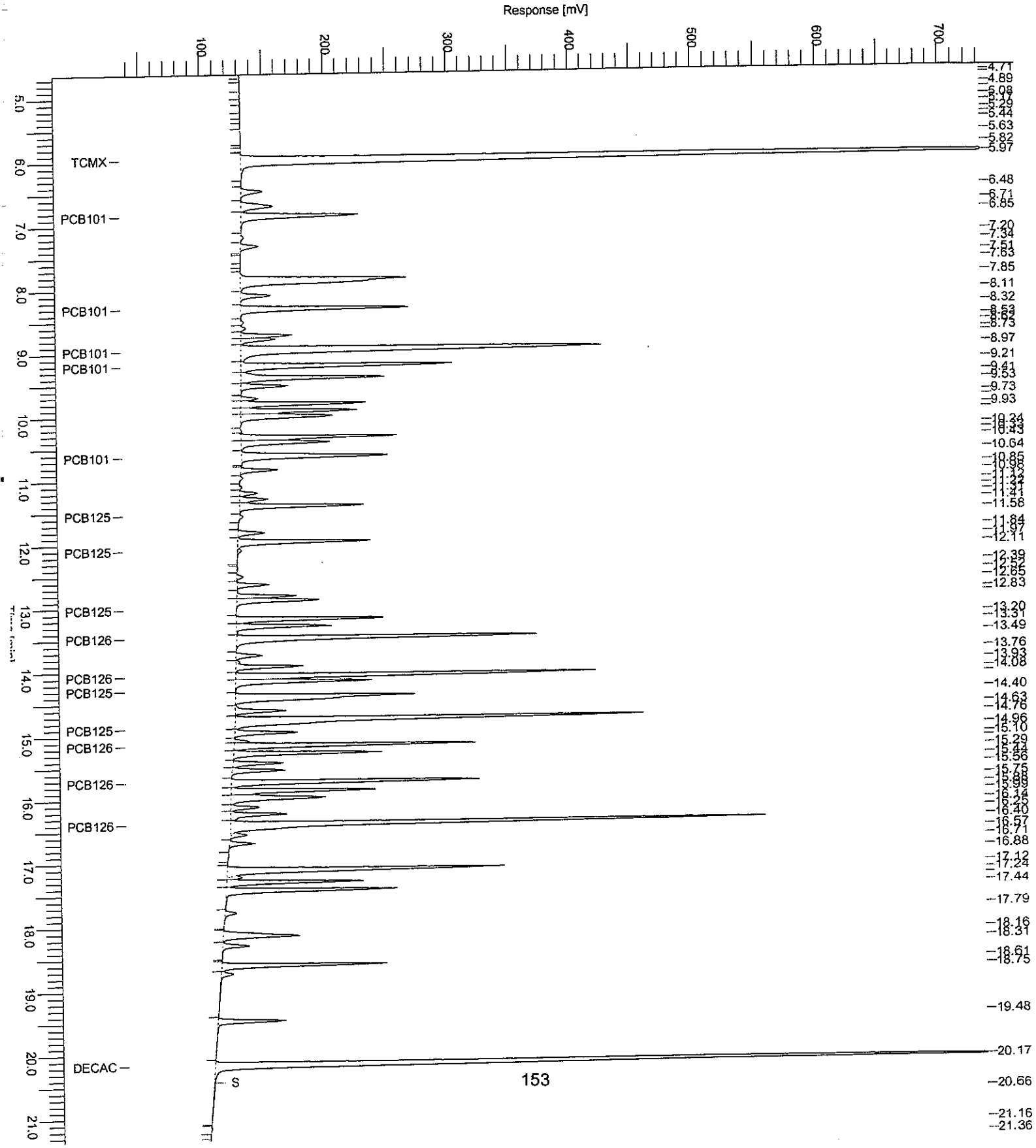
Report stored in ASCII file: G:\gc06\chb\281b008p.TX0

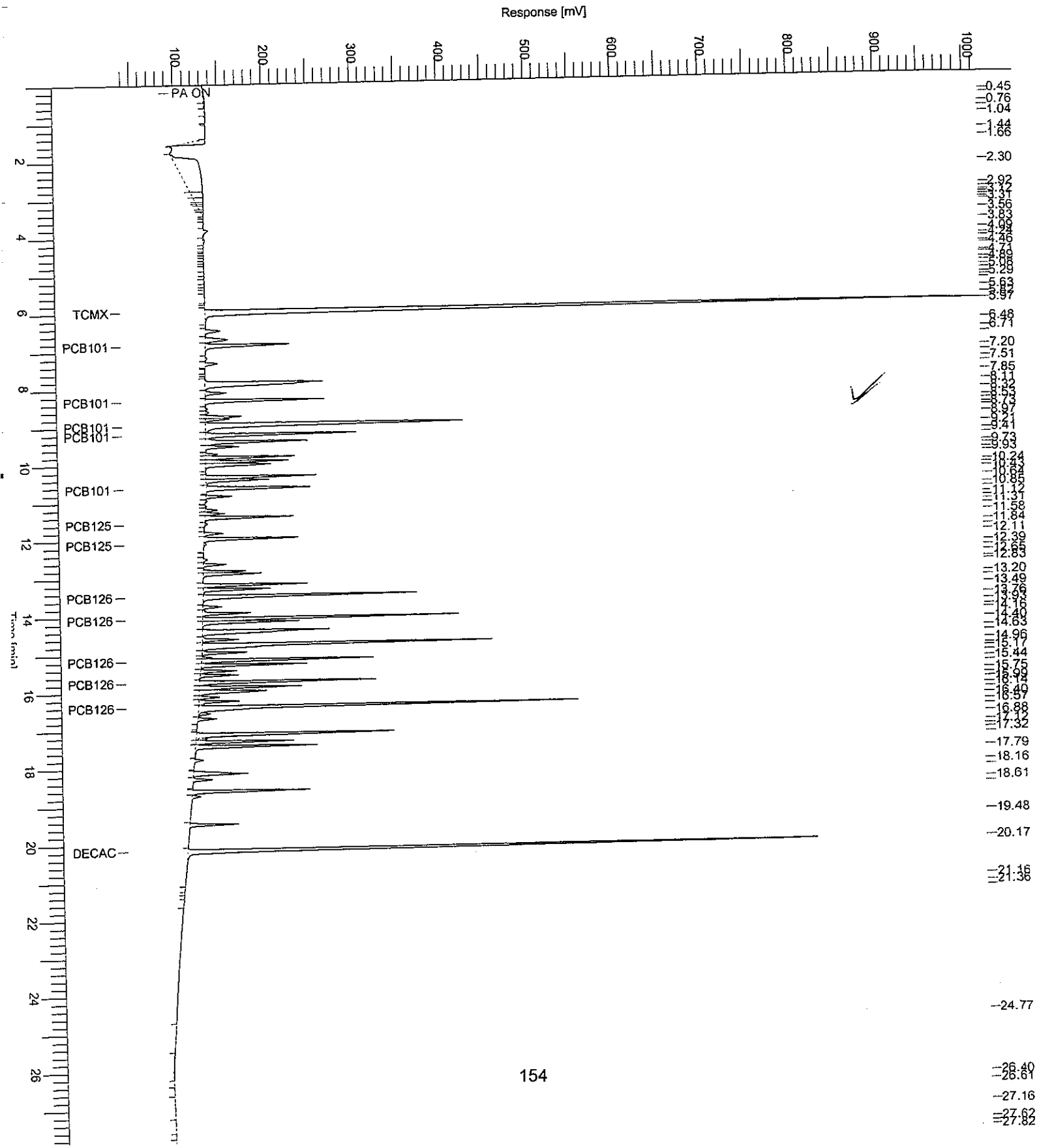
GC 06 Rtx-5

ıple Name : ical,04ws1792,cb1k_200 Sample #: 250ug/l
Name : G:\gc06\CHb\281b008.raw
: 10/8/04 11:18:53 AM
ıod :
Time of Injection: 10/7/04 10:24:14 PM
t Time : 4.64 min End Time : 21.36 min Low Point : 34.24 mV High Point : 732.93 mV
Offset: 34.24 mV Plot Scale: 698.7 mV



GC 06 Rtx-5

ple Name : ical,04ws1792,cb1k_200 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHb\281b008
: 10/8/04 11:03:10 AM
od : gc06fsa1ul Time of Injection: 10/7/04 10:24:14 PM
t Time : 0.00 min End Time : 27.88 min Low Point : 36.70 mV High Point : 1017.15 mV
e Factor: 1.0 Plot Offset: 36.70 mV Plot Scale: 980.5 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : GC06
eqnum : 204405784011
alnum : 204405784001
tandards: 04WS1609

Run Name : accu_1660
Filename : 281_011
Caldate : 07-OCT-2004

Injected : 08-OCT-2004 00:03
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aroclor-1016	A	250.0000	261.8325	pg	5	15	
Aroclor-1260	A	250.0000	264.9902	pg	6	15	
TCMX	A	50.00000	46.81064	pg	-6	15	
Decachlorobiphenyl	A	50.00000	47.52757	pg	-5	15	
Aroclor-1016	B	250.0000	249.9245	pg	0	15	
Aroclor-1260	B	250.0000	247.4611	pg	-1	15	
TCMX	B	50.00000	45.43833	pg	-9	15	
Decachlorobiphenyl	B	50.00000	43.81928	pg	-12	15	

10/8/04

10/8/04

Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1609,accu_1660
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 10/8/04 12:17:48 PM
Data Acquisition Time : 10/8/04 12:03:52 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\281a011p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.107	634849.85	46.81	1.0000	1	46.81	9.36
Aroclor-1016	9.059	442884.15	260.70	1.0000	1	260.70	52.14
Aroclor-1254	15.387	319514.98	0.32	1.0000	1	0.32	0.06
Aroclor-1260	17.693	777986.73	263.94	1.0000	1	263.94	52.79
Decachlorobiphenyl	21.000	442573.30	47.53	1.0000	1	47.53	9.51
		2617809.01	619.30			619.30	123.86

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.108	85764.78	262.93	1.0000	1	262.93	52.59
PCB1016#2	9.059	146626.71	254.32	1.0000	1	254.32	50.86
PCB1016#3	10.785	71301.47	262.65	1.0000	1	262.65	52.53
PCB1016#4	11.252	52622.65	261.63	1.0000	1	261.63	52.33
PCB1016#5	11.669	86568.54	267.63	1.0000	1	267.63	53.53
		442884.15	1309.16			1309.16	261.83

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.989	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.645	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.387	247594.01	334.56	1.0000	1	334.56	66.91
PCB1254#5	16.454	71920.97	72.59	1.0000	1	72.59	14.52
		319514.98	407.15			407.15	81.43

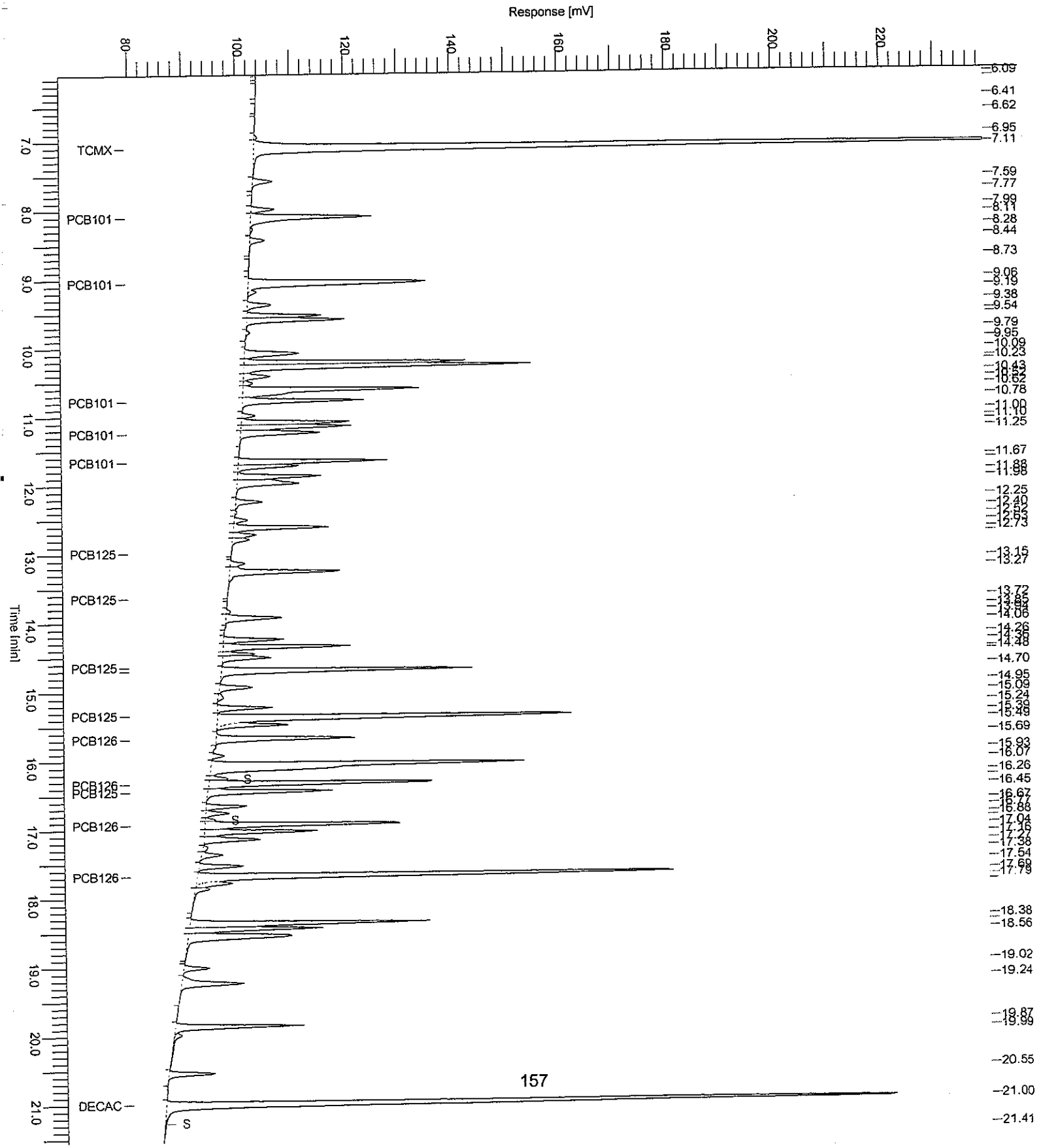
Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.705	145984.90	276.01	1.0000	1	276.01	55.20
PCB1260#2	15.689	85389.96	254.90	1.0000	1	254.90	50.98
PCB1260#3	16.339	135410.31	264.94	1.0000	1	264.94	52.99
PCB1260#4	16.942	118839.46	271.49	1.0000	1	271.49	54.30
PCB1260#5	17.693	292362.10	257.61	1.0000	1	257.61	51.52
		777986.73	1324.95			1324.95	264.99

----------CURTIS & TOMPKINS LTD----------

GC 06 Rtx-CLPesticides

mple Name : icv,04ws1609,accu_1660 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\281a011.raw
te : 10/8/04 12:17:53 PM
ethod :
Time of Injection: 10/8/04 12:03:52 AM
art Time : 6.04 min End Time : 21.55 min Low Point : 79.47 mV High Point : 239.24 mV
ot Offset: 79.47 mV Plot Scale: 159.8 mV



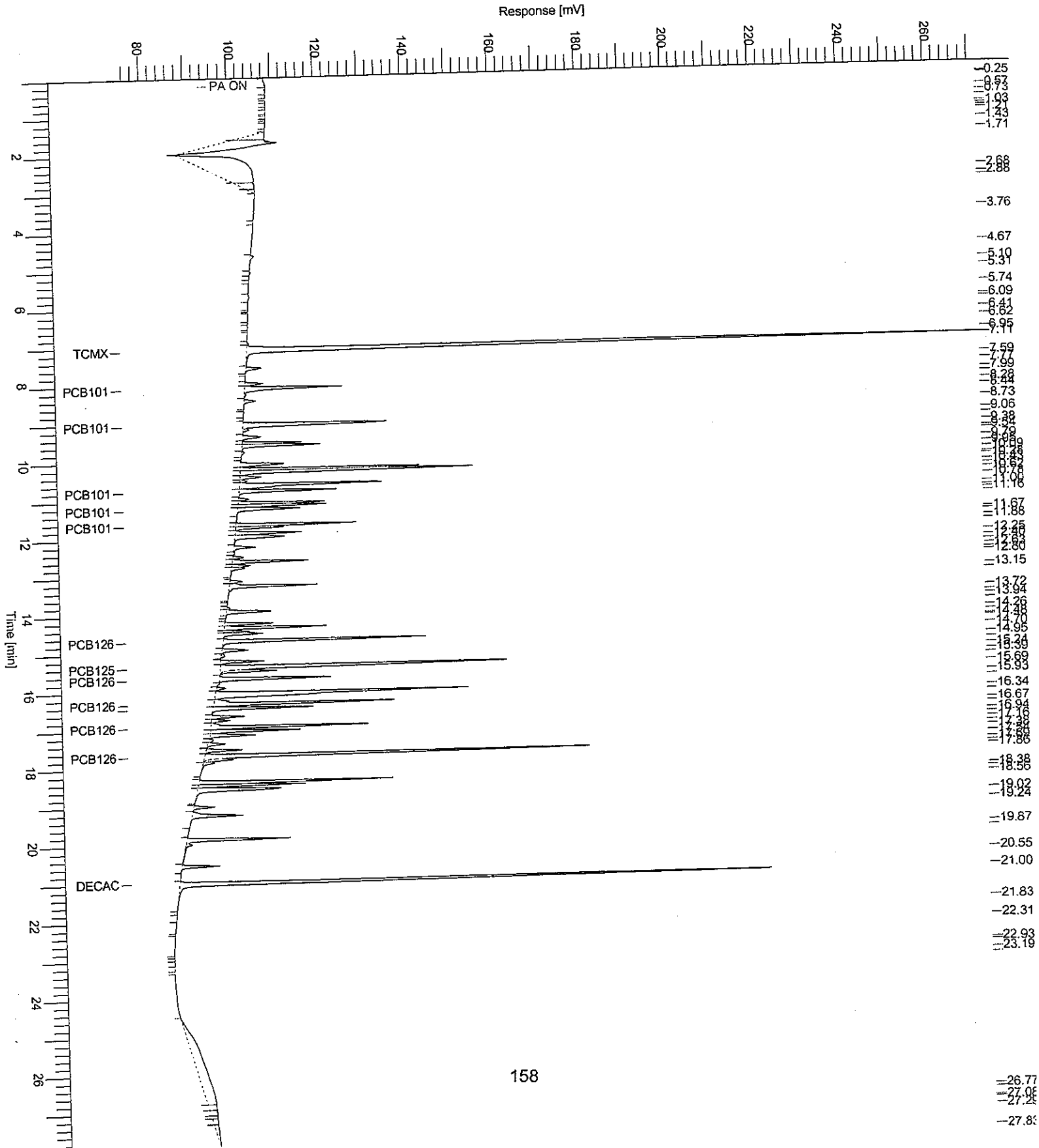
GC 06 Rtx-CLPesticides

mple Name : icv,04ws1609,accu_1660
eName : G:\gc06\CHa\281a011.raw
te : 10/8/04 12:15:48 PM
thod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 250ug/l

End Time : 27.88 min
Plot Offset: 74.49 mV

Time of Injection: 10/8/04 12:03:52 AM
Low Point : 74.49 mV
High Point : 271.93 mV
Plot Scale: 197.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1609,accu_1660
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 10/8/04 12:19:00 PM
Data Acquisition Time : 10/8/04 12:03:52 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\281b011p.rst
Sequence File : G:\gc06\files\281.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.973	898847.66	45.44	1.0000	1	45.44	9.09
Aroclor-1016	8.973	892528.21	251.57	1.0000	1	251.57	50.31
Aroclor-1254	11.576	6160.97	0.01	1.0000	1	0.01	0.00
Aroclor-1260	16.400	1129552.67	246.12	1.0000	1	246.12	49.22
Decachlorobiphenyl	20.173	572438.64	43.82	1.0000	1	43.82	8.76
		3499528.16	586.95			586.95	117.39

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.859	103471.29	235.43	1.0000	1	235.43	47.09
PCB1016#2	8.320	129468.79	249.76	1.0000	1	249.76	49.95
PCB1016#3	8.973	376141.18	253.31	1.0000	1	253.31	50.66
PCB1016#4	9.213	162828.99	263.41	1.0000	1	263.41	52.68
PCB1016#5	10.640	120617.97	247.71	1.0000	1	247.71	49.54
		892528.21	1249.62			1249.62	249.92

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.576	2288.44	2.36	1.0000	1	2.36	0.47
PCB1254#2	12.102	3872.53	2.82	1.0000	1	2.82	0.56
PCB1254#3	13.031	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.301	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#5	14.896	0.00	0.00	1.0000	1	0.00	0.00
		6160.97	5.18			5.18	1.04

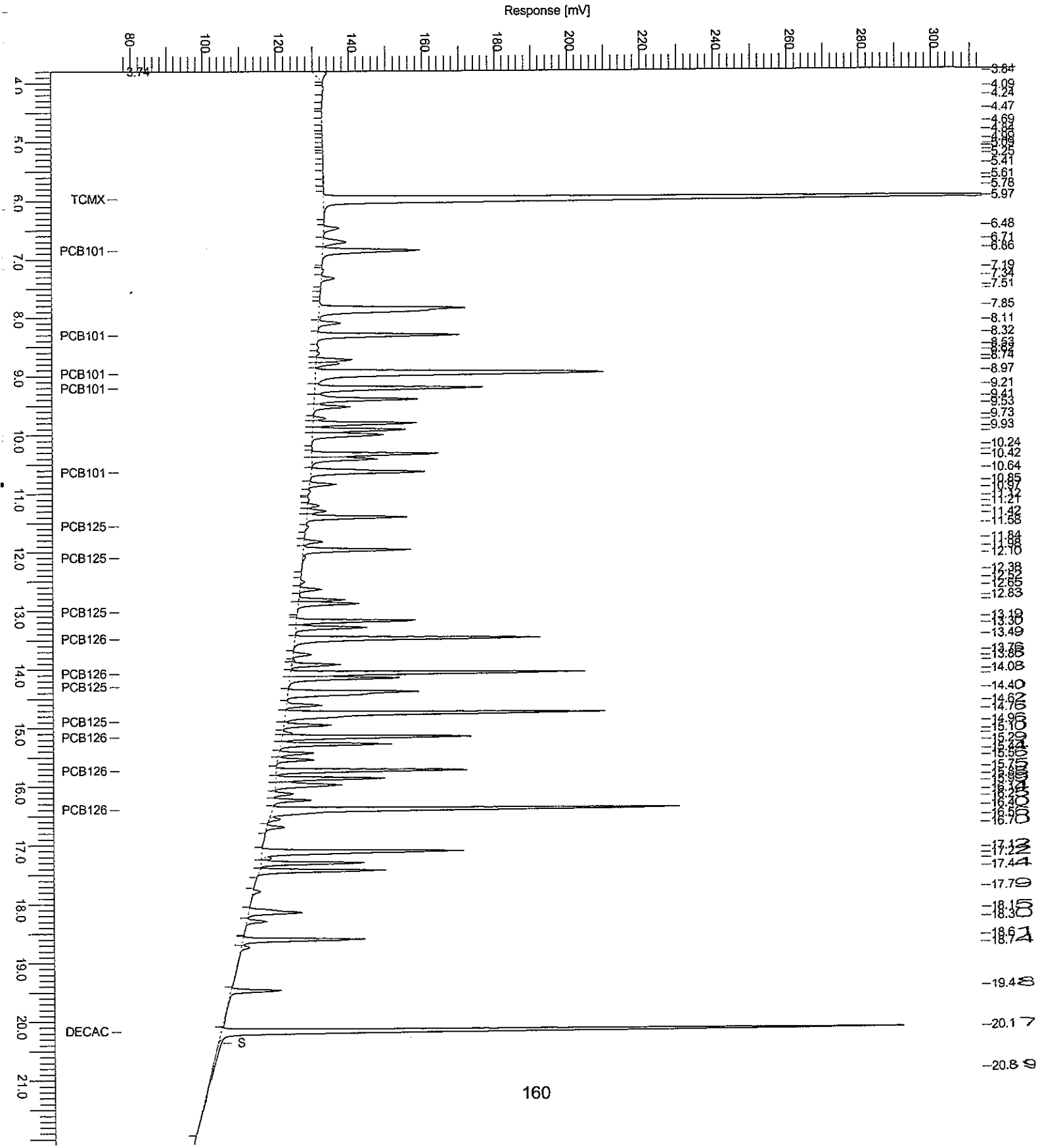
Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.493	219118.98	266.22	1.0000	1	266.22	53.24
PCB1260#2	14.080	238163.87	246.01	1.0000	1	246.01	49.20
PCB1260#3	15.173	156310.38	232.69	1.0000	1	232.69	46.54
PCB1260#4	15.747	156572.47	254.63	1.0000	1	254.63	50.93
PCB1260#5	16.400	359386.97	237.76	1.0000	1	237.76	47.55
		1129552.67	1237.31			1237.31	247.46

----------CURTIS & TOMPKINS LTD----------

GC 06 Rtx-5

ıple Name : icv,04ws1609,accu_1660 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHb\281b011.raw
: 10/8/04 12:19:05 PM
ıod : Time of Injection: 10/8/04 12:03:52 AM
t Time : 3.80 min End Time : 22.09 min Low Point : 76.21 mV High Point : 313.37 mV
Offset: 76.21 mV Plot Scale: 237.2 mV

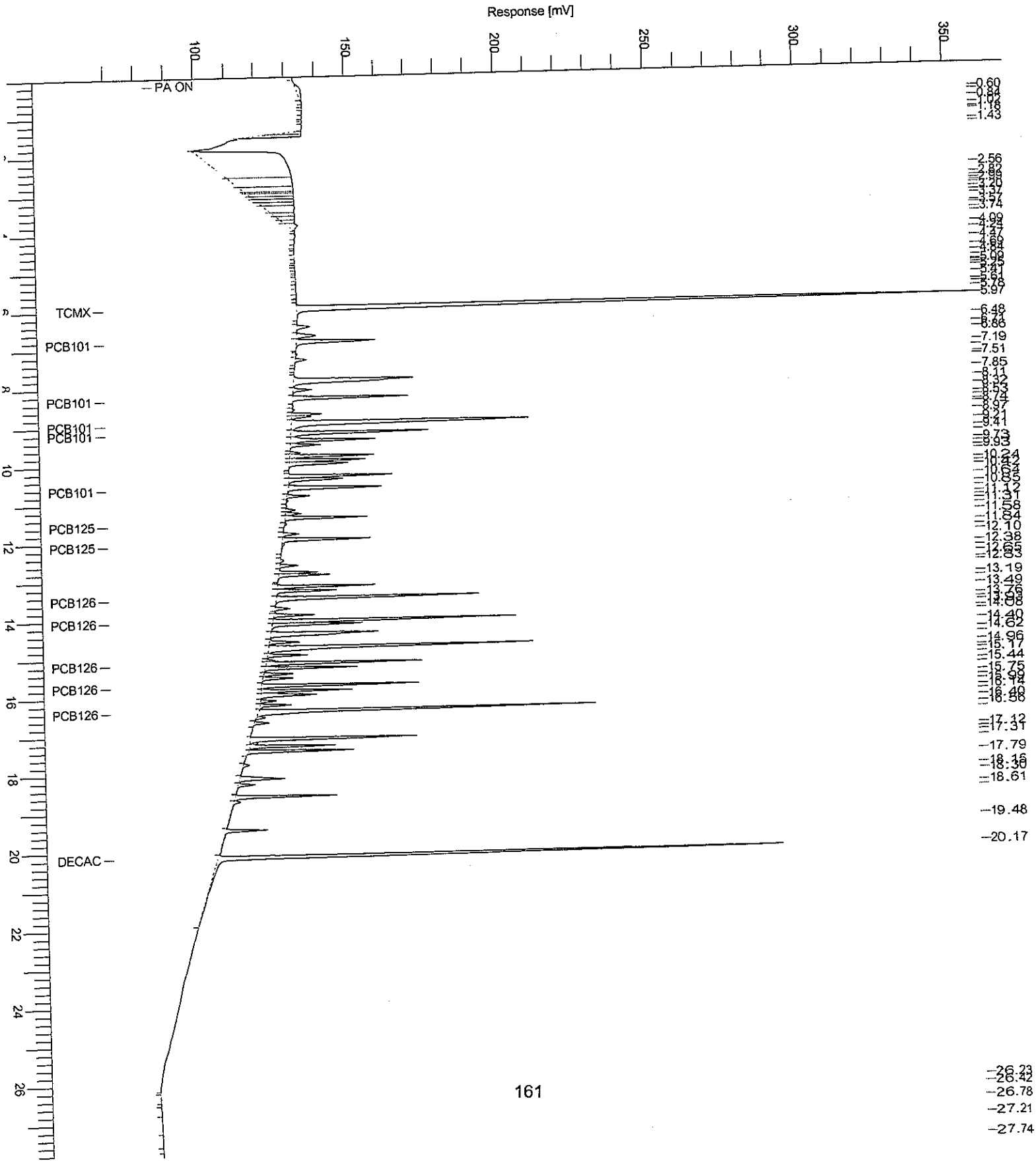


GC 06 Rtx-5

le Name : icv,04ws1609,accu_1660
ame : G:\gc06\CHb\281b011
10/8/04 12:15:59 PM
d : gc06fsa1ul
Time : 0.00 min End Time : 27.88 min
Factor: 1.0 Plot Offset: 68.97 mV

Sample #: 250ug/l

Time of Injection: 10/8/04 12:03:52 AM
Low Point : 68.97 mV High Point : 358.10 mV
Plot Scale: 289.1 mV



Turbochrom Method File G:\gc06\files\5460a284.mth
Printed by : analyst on: 10/11/04 5:10:44 PM
Created by : analyst on: 10/11/04 5:01:57 PM
Edited by : analyst on: 10/11/04 5:10:42 PM
Number of Times Edited : 5
Number of Times Calibrated : 192
Description: gc06

AR1254 [illegible] 10/11/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 7.105 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	284103.92	76154.87	----------	----------	1
4	50.0000	613422.83	157188.43	----------	----------	1
5	100.0000	1242752.80	322684.00	----------	----------	1
6	150.0000	2118426.16	556519.96	----------	----------	1
7	200.0000	2543634.54	674276.94	----------	----------	1
1	2.0000	26834.60	6537.12	----------	----------	1
2	5.0000	78875.51	20277.23	----------	----------	1

Average Calibration Factor = 13562.085152 (%RSD = 9.19)

10/11/04

PCB1016#1
Component Type : Single Peak Component
Retention Time : 8.105 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3111.06	749.26	----------	----------	1
2	25.0000	8860.35	2335.09	----------	----------	1
3	100.0000	34653.65	9084.02	----------	----------	1
4	250.0000	75539.21	18768.28	----------	----------	1
5	500.0000	153711.51	38136.33	----------	----------	1
6	750.0000	261362.43	66314.03	----------	----------	1
7	1000.0000	313198.15	79595.32	----------	----------	1

Average Calibration Factor = 326.188258 (%RSD = 6.89)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 9.055 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5546.44	1190.70	----------	----------	1
2	25.0000	19001.85	3897.53	----------	----------	1
3	100.0000	61703.46	14137.76	----------	----------	1
4	250.0000	126854.50	28715.81	----------	----------	1
5	500.0000	254955.64	56802.84	----------	----------	1
6	750.0000	430665.90	95441.41	----------	----------	1
7	1000.0000	512515.34	113041.51	----------	----------	1

Average Calibration Factor = 576.545469 (%RSD = 15.69)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 10.782 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2277.51	698.98	----------	----------	1
2	25.0000	7214.86	2252.11	----------	----------	1
3	100.0000	28660.24	8951.18	----------	----------	1
4	250.0000	61225.77	18406.05	----------	----------	1
5	500.0000	131397.89	40034.04	----------	----------	1
6	750.0000	231121.92	72740.61	----------	----------	1
7	1000.0000	281446.82	89625.78	----------	----------	1

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Average Calibration Factor = 271.465082 (%RSD = 10.27)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 11.249 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1830.48	516.03	----------	----------	1
2	25.0000	5516.29	1457.94	----------	----------	1
3	100.0000	21174.94	5817.08	----------	----------	1
4	250.0000	44827.19	11932.19	----------	----------	1
5	500.0000	94994.59	25521.32	----------	----------	1
6	750.0000	166694.19	44552.66	----------	----------	1
7	1000.0000	200956.84	54325.52	----------	----------	1

Average Calibration Factor = 201.137487 (%RSD = 8.77)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	15387.47	3979.65	----------	----------	1
2	25.0000	49760.16	12803.33	----------	----------	1
3	100.0000	182178.13	49313.20	----------	----------	1
4	250.0000	380920.39	100390.69	----------	----------	1
5	500.0000	789414.87	208147.79	----------	----------	1
6	750.0000	1355897.35	364120.53	----------	----------	1
7	1000.0000	1630264.06	439406.25	----------	----------	1

Average Calibration Factor = 1698.796129 (%RSD = 10.40)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 11.666 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2621.98	824.68	----------	----------	1
2	25.0000	9166.81	2860.65	----------	----------	1
3	100.0000	35985.85	11323.15	----------	----------	1
4	250.0000	72473.72	22568.36	----------	----------	1
5	500.0000	154355.25	47653.27	----------	----------	1
6	750.0000	266052.91	85071.83	----------	----------	1
7	1000.0000	322146.91	102818.11	----------	----------	1

Average Calibration Factor = 323.459834 (%RSD = 12.15)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 12.625 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	127679.32	40041.52	----------	----------	1

Average Calibration Factor = 510.717278 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 13.955 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	135243.03	40290.50	----------	----------	1

165

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Average Calibration Factor = 540.972104 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 14.253 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	235953.14	77377.95	----------	----------	1

Average Calibration Factor = 943.812568 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	24021.71	7676.10	----------	----------	1
2	25.0000	81572.31	25740.40	----------	----------	1
3	100.0000	332884.53	102040.52	----------	----------	1
4	250.0000	645926.18	169895.25	----------	----------	1
5	500.0000	1396069.87	366777.66	----------	----------	1
6	750.0000	2470646.06	652172.35	----------	----------	1
7	1000.0000	2969437.79	919444.07	----------	----------	1

Average Calibration Factor = 2947.626613 (%RSD = 12.54)

PCB1260#1

Component Type : Single Peak Component
Retention Time : 14.703 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3716.01	1326.84	----------	----------	1
2	25.0000	14996.69	4812.39	----------	----------	1
3	100.0000	62189.99	19489.27	----------	----------	1
4	250.0000	121333.87	37202.78	----------	----------	1
5	500.0000	255835.10	80545.57	----------	----------	1
6	750.0000	438742.41	138767.26	----------	----------	1
7	1000.0000	526977.30	169313.44	----------	----------	1

Average Calibration Factor = 528.905907 (%RSD = 16.15)

PCB1254#4

Component Type : Single Peak Component
Retention Time : 15.386 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	172402.51	44472.41	----------	----------	1

Average Calibration Factor = 689.610051 (%RSD = 0.00)

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

PCB1260#2
Component Type : Single Peak Component
Retention Time : 15.687 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2429.02	754.52	----------	----------	1
2	25.0000	9355.04	2659.83	----------	----------	1
3	100.0000	36313.69	10635.45	----------	----------	1
4	250.0000	72092.01	20660.53	----------	----------	1
5	500.0000	159838.64	46534.42	----------	----------	1
6	750.0000	296493.37	86663.18	----------	----------	1
7	1000.0000	361388.35	107199.87	----------	----------	1

Average Calibration Factor = 334.999841 (%RSD = 16.15)

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.067 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	236621.93	59680.63	----------	----------	1

Average Calibration Factor = 946.487730 (%RSD = 0.00)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 16.336 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4452.49	1483.28	----------	----------	1
2	25.0000	14036.59	4665.49	----------	----------	1
3	100.0000	56401.99	18047.22	----------	----------	1
4	250.0000	112676.14	34985.24	----------	----------	1
5	500.0000	242214.01	75785.59	----------	----------	1
6	750.0000	424186.64	132071.33	----------	----------	1
7	1000.0000	506248.08	154754.64	----------	----------	1

Average Calibration Factor = 511.099293 (%RSD = 10.42)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 16.939 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3201.57	1075.51	----------	----------	1
2	25.0000	11545.47	3680.29	----------	----------	1
3	100.0000	50443.14	15170.69	----------	----------	1
4	250.0000	95629.66	29354.35	----------	----------	1
5	500.0000	210697.94	63398.11	----------	----------	1
6	750.0000	381780.81	115718.99	----------	----------	1
7	1000.0000	464738.95	143561.59	----------	----------	1

Average Calibration Factor = 437.728810 (%RSD = 15.60)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 17.685 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	10222.62	3035.95	----------	----------	1
2	25.0000	31638.54	9922.40	----------	----------	1
3	100.0000	127535.72	38697.89	----------	----------	1
4	250.0000	244194.50	47692.35	----------	----------	1
5	500.0000	527484.18	100513.96	----------	----------	1
6	750.0000	929442.83	178951.59	----------	~~169~~	1
7	1000.0000	1110085.11	344614.52	----------	----------	1

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Average Calibration Factor = 1134.892761 (%RSD = 10.93)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.001 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	220176.18	68537.65	----------	----------	1
4	50.0000	405017.26	125053.57	----------	----------	1
5	100.0000	843609.48	259997.11	----------	----------	1
1	2.0000	16535.32	5202.60	----------	----------	1
2	5.0000	56038.79	17669.48	----------	----------	1
6	150.0000	1436982.42	439477.38	----------	----------	1
7	200.0000	1716590.21	526001.05	----------	----------	1

Average Calibration Factor = 9311.929057 (%RSD = 14.14)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
284103.92	76154.87	20.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
613422.83	157188.43	50.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1242752.80	322684.00	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2118426.16	556519.96	150.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2543634.54	674276.94	200.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26834.60	6537.12	2.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78875.51	20277.23	5.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3111.06	749.26	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8860.35	2335.09	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34653.65	9084.02	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75539.21	18768.28	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153711.51	38136.33	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
261362.43	66314.03	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
313198.15	79595.32	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5546.44	1190.70	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19001.85	3897.53	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61703.46	14137.76	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126854.50	28715.81	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
254955.64	56802.84	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
430665.90	95441.41	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
512515.34	113041.51	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2277.51	698.98	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7214.86	2252.11	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28660.24	8951.18	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61225.77	18406.05	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
131397.89	40034.04	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
231121.92	72740.61	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
281446.82	89625.78	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1830.48	516.03	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5516.29	1457.94	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21174.94	5817.08	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44827.19	11932.19	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94994.59	25521.32	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
166694.19	44552.66	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
200956.84	54325.52	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15387.47	3979.65	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49760.16	12803.33	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182178.13	49313.20	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
380920.39	100390.69	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
789414.87	208147.79	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1355897.35	364120.53	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1630264.06	439406.25	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1016#5
Level : 1

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2621.98	824.68	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9166.81	2860.65	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35985.85	11323.15	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72473.72	22568.36	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154355.25	47653.27	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
266052.91	85071.83	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
322146.91	102818.11	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127679.32	40041.52	250.0000	----------	----------	10/11/04	5:10:33 PM	G:\gc06\cha\284a005p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
135243.03	40290.50	250.0000	----------	----------	10/11/04	5:10:33 PM	G:\gc06\cha\284a005p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
235953.14	77377.95	250.0000	----------	----------	10/11/04	5:10:33 PM	G:\gc06\cha\284a005p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24021.71	7676.10	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81572.31	25740.40	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
332884.53	102040.52	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
645926.18	169895.25	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1396069.87	366777.66	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2470646.06	652172.35	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2969437.79	919444.07	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1260#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3716.01	1326.84	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14996.69	4812.39	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62189.99	19489.27	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
121333.87	37202.78	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255835.10	80545.57	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
438742.41	138767.26	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
526977.30	169313.44	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
172402.51	44472.41	250.0000	----------	----------	10/11/04	5:10:33 PM	G:\gc06\cha\284a005p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2429.02	754.52	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9355.04	2659.83	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36313.69	10635.45	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72092.01	20660.53	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159838.64	46534.42	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
296493.37	86663.18	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
361388.35	107199.87	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
236621.93	59680.63	250.0000	----------	----------	10/11/04	5:10:33 PM	G:\gc06\cha\284a005p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4452.49	1483.28	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14036.59	4665.49	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56401.99	18047.22	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112676.14	34985.24	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
242214.01	75785.59	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
424186.64	132071.33	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
506248.08	154754.64	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : PCB1260#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3201.57	1075.51	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11545.47	3680.29	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50443.14	15170.69	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95629.66	29354.35	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
210697.94	63398.11	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
381780.81	115718.99	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
464738.95	143561.59	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Component : PCB1260#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10222.62	3035.95	10.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31638.54	9922.40	25.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127535.72	38697.89	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
244194.50	47692.35	250.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
527484.18	100513.96	500.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
929442.83	178951.59	750.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1110085.11	344614.52	1000.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220176.18	68537.65	20.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
405017.26	125053.57	50.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
843609.48	259997.11	100.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a006p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16535.32	5202.60	2.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56038.79	17669.48	5.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a003p.rst

Level : 6

10/11/04 5:10:44 PM Method: G:\gc06\files\5460a284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1436982.42	439477.38	150.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a007p.rst

Level : 7 Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1716590.21	526001.05	200.0000	----------	----------	10/8/04	11:34:03 AM	G:\gc06\cha\281a008p.rst

Turbochrom Method File G:\gc06\files\5460b284.mth
Printed by : analyst on: 10/11/04 5:11:32 PM
Created by : analyst on: 10/11/04 5:04:52 PM
Edited by : analyst on: 10/11/04 5:11:30 PM
Number of Times Edited : 7
Number of Times Calibrated : 192
Description: gc 06

AR1254 mm 10/11/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 5.975 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/11/04

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	421454.79	112615.64	----------	----------	1
4	50.0000	889009.23	218399.31	----------	----------	1
5	100.0000	1761872.72	442878.19	----------	----------	1
1	2.0000	43474.71	10487.59	----------	----------	1
2	5.0000	116350.85	31202.04	----------	----------	1
6	150.0000	2955556.59	746452.63	----------	----------	1
7	200.0000	3457812.11	883802.51	----------	----------	1

Average Calibration Factor = 19781.707136 (%RSD = 11.78)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 6.857 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5860.75	1183.01	----------	----------	1
2	25.0000	12720.35	3165.01	----------	----------	1
3	100.0000	44502.25	11530.52	----------	----------	1
4	250.0000	92142.67	23031.85	----------	----------	1
5	500.0000	185813.15	47581.20	----------	----------	1
6	750.0000	323132.53	80701.30	----------	----------	1
7	1000.0000	365512.83	94958.74	----------	----------	1

Average Calibration Factor = 439.494989 (%RSD = 18.92)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 8.315 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5653.26	1617.78	----------	----------	1
2	25.0000	15238.08	4614.57	----------	----------	1
3	100.0000	57232.73	16950.69	----------	----------	1
4	250.0000	113519.82	33363.97	----------	----------	1
5	500.0000	229925.45	67795.64	----------	----------	1
6	750.0000	383696.98	113346.81	----------	----------	1
7	1000.0000	455910.60	135495.54	----------	----------	1

Average Calibration Factor = 518.373398 (%RSD = 12.43)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 8.967 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	15376.30	3227.74	----------	----------	1
2	25.0000	43015.34	9379.98	----------	----------	1
3	100.0000	163455.27	34528.31	----------	----------	1
4	250.0000	320003.70	67914.26	----------	----------	1
5	500.0000	673168.68	139728.29	----------	----------	1
6	750.0000	1135856.41	242103.74	----------	----------	1
7	1000.0000	1360590.09	284492.01	----------	----------	1

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Average Calibration Factor = 1484.887617 (%RSD = 10.94)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 9.218 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	6086.55	1786.42	----------	----------	1
2	25.0000	17610.02	5272.61	----------	----------	1
3	100.0000	65910.50	19805.78	----------	----------	1
4	250.0000	133998.87	39887.10	----------	----------	1
5	500.0000	289939.30	83383.91	----------	----------	1
6	750.0000	488833.54	143739.77	----------	----------	1
7	1000.0000	587336.29	171094.08	----------	----------	1

Average Calibration Factor = 618.164141 (%RSD = 9.22)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 10.643 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4983.08	1227.88	----------	----------	1
2	25.0000	13753.30	3607.26	----------	----------	1
3	100.0000	52203.55	13488.40	----------	----------	1
4	250.0000	102949.32	26376.43	----------	----------	1
5	500.0000	223047.25	56381.80	----------	----------	1
6	750.0000	386645.88	99744.05	----------	----------	1
7	1000.0000	464629.03	117765.64	----------	----------	1

Average Calibration Factor = 486.932017 (%RSD = 9.91)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	37959.94	9042.83	----------	----------	1
2	25.0000	102337.09	26039.42	----------	----------	1
3	100.0000	383304.30	96303.70	----------	----------	1
4	250.0000	762614.38	190573.61	----------	----------	1
5	500.0000	1601893.83	394870.84	----------	----------	1
6	750.0000	2718165.35	679635.66	----------	----------	1
7	1000.0000	3233978.85	803806.00	----------	----------	1

Average Calibration Factor = 3547.852163 (%RSD = 10.98)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 11.427 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	198269.58	61893.32	----------	----------	1

Average Calibration Factor = 793.078338 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 11.987 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	282204.29	83577.30	----------	----------	1

183

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Average Calibration Factor = 1128.817145 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 12.667 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	180042.43	57138.75	----------	----------	1

Average Calibration Factor = 720.169731 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 13.492 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	6389.09	2331.90	----------	----------	1
2	25.0000	24614.22	7831.43	----------	----------	1
3	100.0000	97207.51	29445.54	----------	----------	1
4	250.0000	185324.24	57087.38	----------	----------	1
5	500.0000	382313.13	117541.10	----------	----------	1
6	750.0000	653430.84	195861.69	----------	----------	1
7	1000.0000	788751.47	243380.73	----------	----------	1

Average Calibration Factor = 823.066940 (%RSD = 15.35)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 14.081 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	10018.31	3285.95	----------	----------	1
2	25.0000	30558.75	10030.60	----------	----------	1
3	100.0000	111330.90	38374.83	----------	----------	1
4	250.0000	202823.14	67863.48	----------	----------	1
5	500.0000	416168.18	142463.15	----------	----------	1
6	750.0000	710247.16	240938.73	----------	----------	1
7	1000.0000	848591.93	292408.10	----------	----------	1

Average Calibration Factor = 968.101070 (%RSD = 16.04)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	45162.29	14790.13	----------	----------	1
2	25.0000	142231.41	44755.94	----------	----------	1
3	100.0000	520911.83	167834.63	----------	----------	1
4	250.0000	959485.00	309550.64	----------	----------	1
5	500.0000	2002734.44	651510.44	----------	----------	1
6	750.0000	3500613.37	1.12e+06	----------	----------	1
7	1000.0000	4200426.50	1.37e+06	----------	----------	1

Average Calibration Factor = 4589.417690 (%RSD = 14.51)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 14.405 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	53128.42	16757.07	----------	----------	1

Average Calibration Factor = 212.513681 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

PCB1254#5
Component Type : Single Peak Component
Retention Time : 14.773 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	294823.47	89606.75	----------	----------	1

Average Calibration Factor = 1179.293888 (%RSD = 0.00)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 15.168 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8372.37	2554.78	----------	----------	1
2	25.0000	21297.60	6869.46	----------	----------	1
3	100.0000	71228.79	23756.60	----------	----------	1
4	250.0000	132908.36	43997.78	----------	----------	1
5	500.0000	276783.93	92274.80	----------	----------	1
6	750.0000	480405.99	156584.53	----------	----------	1
7	1000.0000	575152.13	195415.04	----------	----------	1

Average Calibration Factor = 671.760505 (%RSD = 19.73)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 15.743 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5802.87	1971.65	----------	----------	1
2	25.0000	17657.72	5955.06	----------	----------	1
3	100.0000	69357.84	22934.32	----------	----------	1
4	250.0000	129206.08	43252.64	----------	----------	1
5	500.0000	277506.23	92639.61	----------	----------	1
6	750.0000	492390.81	161956.68	----------	----------	1
7	1000.0000	595807.00	201072.00	----------	----------	1

Average Calibration Factor = 614.905512 (%RSD = 11.70)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 16.402 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	14579.65	4645.85	----------	----------	1
2	25.0000	48103.13	14069.40	----------	----------	1
3	100.0000	171786.79	53323.35	----------	----------	1
4	250.0000	309223.18	97349.36	----------	----------	1
5	500.0000	649962.97	206591.78	----------	----------	1
6	750.0000	1164138.56	364337.77	----------	----------	1
7	1000.0000	1392123.98	433129.80	----------	----------	1

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Average Calibration Factor = 1511.583663 (%RSD = 16.02)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.175 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	307589.36	104648.22	----------	----------	1
4	50.0000	549736.43	182209.89	----------	----------	1
5	100.0000	1100217.41	363868.59	----------	----------	1
6	150.0000	1828379.31	618748.64	----------	----------	1
7	200.0000	2179241.33	716863.15	----------	----------	1
1	2.0000	27786.82	9596.55	----------	----------	1
2	5.0000	85450.96	28938.18	----------	----------	1

Average Calibration Factor = 13063.625174 (%RSD = 18.82)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
421454.79	112615.64	20.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
889009.23	218399.31	50.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1761872.72	442878.19	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43474.71	10487.59	2.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116350.85	31202.04	5.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2955556.59	746452.63	150.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3457812.11	883802.51	200.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5860.75	1183.01	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12720.35	3165.01	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44502.25	11530.52	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92142.67	23031.85	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185813.15	47581.20	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
323132.53	80701.30	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
365512.83	94958.74	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5653.26	1617.78	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15238.08	4614.57	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57232.73	16950.69	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
113519.82	33363.97	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229925.45	67795.64	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
383696.98	113346.81	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
455910.60	135495.54	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15376.30	3227.74	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43015.34	9379.98	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
163455.27	34528.31	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
320003.70	67914.26	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
673168.68	139728.29	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1135856.41	242103.74	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1360590.09	284492.01	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6086.55	1786.42	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17610.02	5272.61	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65910.50	19805.78	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133998.87	39887.10	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
289939.30	83383.91	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
488833.54	143739.77	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
587336.29	171094.08	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1016#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4983.08	1227.88	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13753.30	3607.26	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52203.55	13488.40	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102949.32	26376.43	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
223047.25	56381.80	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
386645.88	99744.05	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
464629.03	117765.64	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : Aroclor-1016
Level : 1

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37959.94	9042.83	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102337.09	26039.42	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
383304.30	96303.70	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
762614.38	190573.61	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1601893.83	394870.84	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2718165.35	679635.66	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3233978.85	803806.00	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
198269.58	61893.32	250.0000	----------	----------	10/11/04	5:11:23 PM	G:\gc06\chb\284b005p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
282204.29	83577.30	250.0000	----------	----------	10/11/04	5:11:23 PM	G:\gc06\chb\284b005p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
180042.43	57138.75	250.0000	----------	----------	10/11/04	5:11:23 PM	G:\gc06\chb\284b005p.rst

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6389.09	2331.90	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24614.22	7831.43	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
97207.51	29445.54	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185324.24	57087.38	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
382313.13	117541.10	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
653430.84	195861.69	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
788751.47	243380.73	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10018.31	3285.95	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30558.75	10030.60	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
111330.90	38374.83	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
202823.14	67863.48	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
416168.18	142463.15	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
710247.16	240938.73	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
848591.93	292408.10	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45162.29	14790.13	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
142231.41	44755.94	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
520911.83	167834.63	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
959485.00	309550.64	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2002734.44	651510.44	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3500613.37	1.11968e+006	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4200426.50	1.36541e+006	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53128.42	16757.07	250.0000	----------	----------	10/11/04	5:11:23 PM	G:\gc06\chb\284b005p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
294823.47	89606.75	250.0000	----------	----------	10/11/04	5:11:23 PM	G:\gc06\chb\284b005p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8372.37	2554.78	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21297.60	6869.46	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71228.79	23756.60	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132908.36	43997.78	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
276783.93	92274.80	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
480405.99	156584.53	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
575152.13	195415.04	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5802.87	1971.65	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17657.72	5955.06	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69357.84	22934.32	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129206.08	43252.64	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
277506.23	92639.61	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
492390.81	161956.68	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
595807.00	201072.00	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : PCB1260#5
Level : 1

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14579.65	4645.85	10.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48103.13	14069.40	25.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171786.79	53323.35	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
309223.18	97349.36	250.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
649962.97	206591.78	500.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1164138.56	364337.77	750.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1392123.98	433129.80	1000.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
307589.36	104648.22	20.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b004p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
549736.43	182209.89	50.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b005p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100217.41	363868.59	100.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b006p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1828379.31	618748.64	150.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2179241.33	716863.15	200.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b008p.rst

Level : 1

10/11/04 5:11:32 PM Method: G:\gc06\files\5460b284.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27786.82	9596.55	2.0000	----------	----------	10/8/04	12:08:52 PM	G:\gc06\chb\281b002p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85450.96	28938.18	5.0000	----------	----------	10/8/04	12:08:53 PM	G:\gc06\chb\281b003p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By: [illegible] 10/11/04

Instrument: GC06 Gas Chromatograph #6 ECD Type: (normal) Date: 10-OCT-2004 20:19 Inj Vol (uL): 1
Calnum: 204409828001 Name:

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	284_005	204409828005	ar1254	10-OCT-2004 20:19	04WS1907

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	510.72	AVRG	R		0.001958		pg	510.72	0 —	.99	20	
Aroclor-1254 Peak # 2	A	540.97	AVRG	R		0.001849		pg	540.97	0 —	.99	20	
Aroclor-1254 Peak # 3	A	943.81	AVRG	R		0.001060		pg	943.81	0 —	.99	20	
Aroclor-1254 Peak # 4	A	689.61	AVRG	R		0.001450		pg	689.61	0 —	.99	20	
Aroclor-1254 Peak # 5	A	946.49	AVRG	R		0.001057		pg	946.49	0 —	.99	20	
Aroclor-1254 Peak # 1	B	793.08	AVRG	R		0.001261		pg	793.08	0 —	.99	20	
Aroclor-1254 Peak # 2	B	1128.8	AVRG	R		8.859E-4		pg	1128.8	0 —	.99	20	
Aroclor-1254 Peak # 3	B	720.17	AVRG	R		0.001389		pg	720.17	0 —	.99	20	
Aroclor-1254 Peak # 4	B	212.51	AVRG	R		0.004706		pg	212.51	0 —	.99	20	
Aroclor-1254 Peak # 5	B	1179.3	AVRG	R		8.480E-4		pg	1179.3	0 —	.99	20	

[illegible] 10/11/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204409828005
Calnum : 204409828001
Standards: 04WS1907

Run Name : ar1254
Filename : 284_005
Caldate : 10-OCT-2004

IDF : 1.0
Injected : 10-OCT-2004 20:19
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	250.0000	pg	0	15	
Aroclor-1254	B			250.0000	250.0000	pg	0	15	

10/11/04

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1907,ar1254
Instrument Name : gc06
Rack/Vial : 1/5
Sample Amount : 1.000000
Cycle : 5

Date : 10/11/04 5:08:21 PM
Data Acquisition Time : 10/10/04 8:19:41 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\284a005p.rst
Sequence File : G:\gc06\files\284.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.107	760039.54	56.04	1.0000	1	56.04	11.21
Aroclor-1016	11.665	62616.97	36.86	1.0000	1	36.86	7.37
Aroclor-1254	14.253	907899.93	0.91	1.0000	1	0.91	0.18
Aroclor-1260	14.702	171792.42	58.28	1.0000	1	58.28	11.66
Decachlorobiphenyl	21.000	705143.27	75.72	1.0000	1	75.72	15.14
		2607492.14	227.82			227.82	45.56

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.054	5276.15	9.15	1.0000	1	9.15	1.83
PCB1016#3	10.777	1188.99	4.38	1.0000	1	4.38	0.88
PCB1016#4	11.241	4329.60	21.53	1.0000	1	21.53	4.31
PCB1016#5	11.665	51822.23	160.21	1.0000	1	160.21	32.04
		62616.97	195.27			195.27	39.05

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.625	127679.32	300.32	1.0000	1	300.32	60.06
PCB1254#2	13.955	135243.03	315.06	1.0000	1	315.06	63.01
PCB1254#3	14.253	235953.14	314.60	1.0000	1	314.60	62.92
PCB1254#4	15.386	172402.51	317.59	1.0000	1	317.59	63.52
PCB1254#5	16.067	236621.93	330.68	1.0000	1	330.68	66.14
		907899.93	1578.25			1578.25	315.65

10/11/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.702	81647.31	154.37	1.0000	1	154.37	30.87
PCB1260#2	15.682	42346.59	126.41	1.0000	1	126.41	25.28
PCB1260#3	16.332	7950.44	15.56	1.0000	1	15.56	3.11
PCB1260#4	16.936	10514.44	24.02	1.0000	1	24.02	4.80
PCB1260#5	17.684	29333.64	25.85	1.0000	1	25.85	5.17
		171792.42	346.20			346.20	69.24

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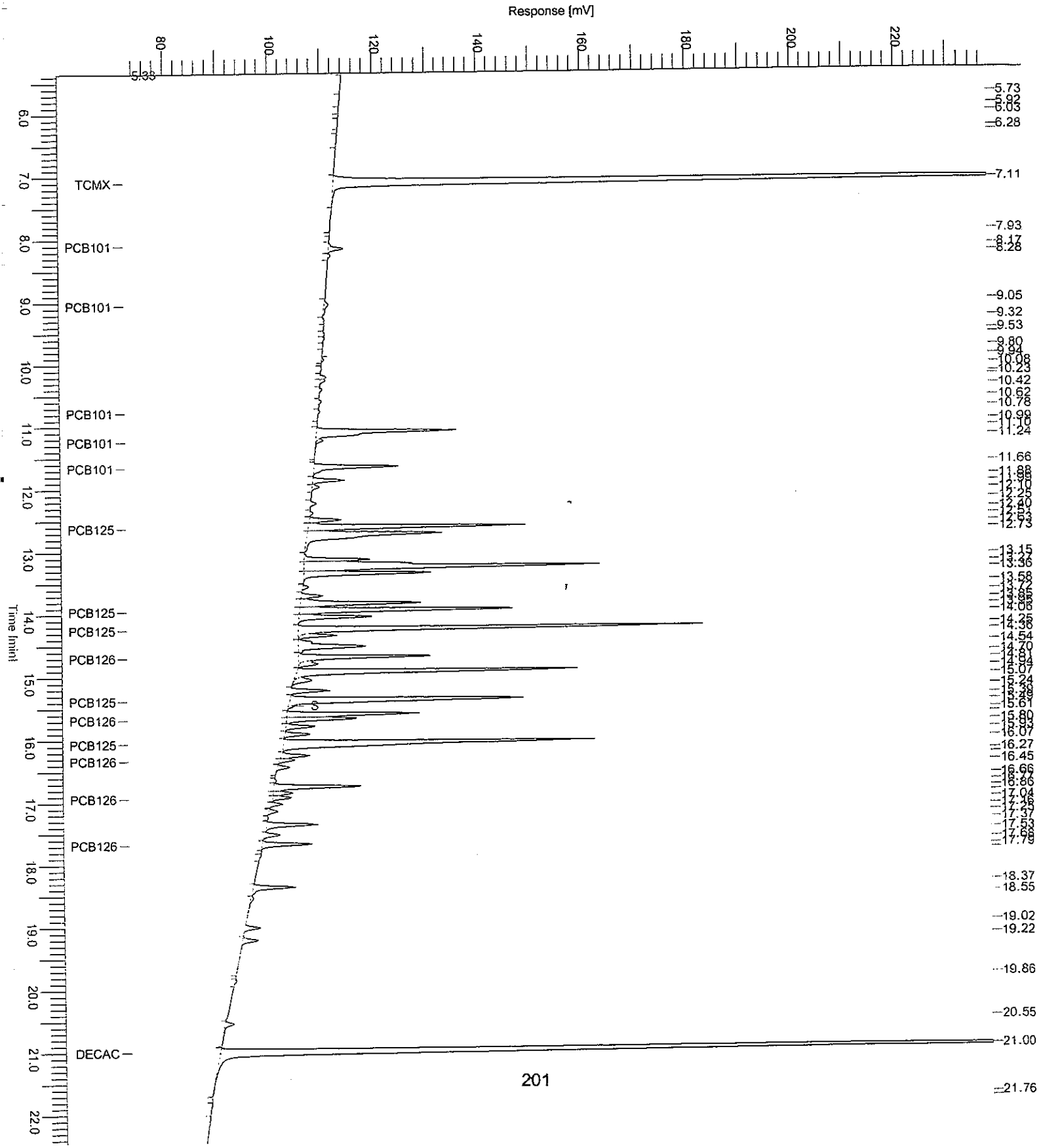
Report stored in ASCII file: G:\gc06\cha\284a005p.TX0

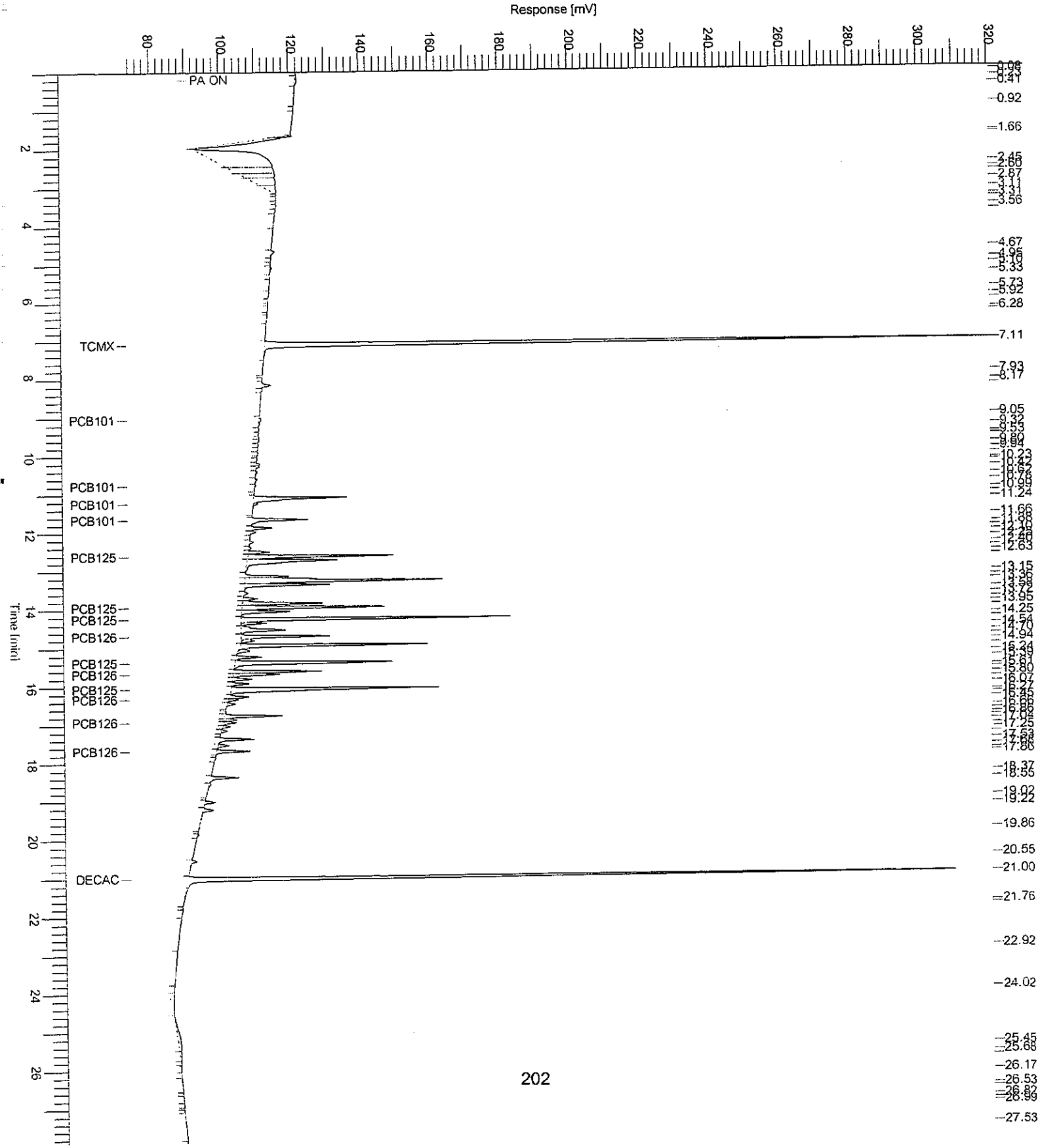
GC 06 Rtx-CLPesticides

mple Name : ccv,04ws1907,ar1254 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\284a005.raw
te : 10/11/04 5:08:25 PM
ethod :
Time of Injection: 10/10/04 8:19:41 PM
art Time : 5.36 min End Time : 22.45 min Low Point : 72.29 mV High Point : 237.50 mV
ot Offset: 72.29 mV Plot Scale: 165.2 mV



GC 06 Rtx-CLPesticides

mple Name : ccv,04ws1907,ar1254 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\284a005.raw
te : 10/11/04 5:06:48 PM
ethod : gc06fsa1ul Time of Injection: 10/10/04 8:19:41 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 72.91 mV High Point : 320.48 mV
ale Factor: 1.0 Plot Offset: 72.91 mV Plot Scale: 247.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1907,ar1254
Instrument Name : gc06
Rack/Vial : 1/5
Sample Amount : 1.000000
Cycle : 5

Date : 10/11/04 5:09:10 PM
Data Acquisition Time : 10/10/04 8:19:41 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\284b005p.rst
Sequence File : G:\gc06\files\284.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1017996.02	51.46	1.0000	1	51.46	10.29
Aroclor-1016	10.656	44705.96	12.60	1.0000	1	12.60	2.52
Aroclor-1260	14.093	196179.57	42.75	1.0000	1	42.75	8.55
Aroclor-1254	14.773	1008468.20	1.01	1.0000	1	1.01	0.20
Decachlorobiphenyl	20.187	855827.17	65.51	1.0000	1	65.51	13.10
		3123176.92	173.33			173.33	34.67

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.868	1457.83	3.32	1.0000	1	3.32	0.66
PCB1016#2	8.329	3253.50	6.28	1.0000	1	6.28	1.26
PCB1016#3	8.969	7594.37	5.11	1.0000	1	5.11	1.02
PCB1016#4	9.239	4180.77	6.76	1.0000	1	6.76	1.35
PCB1016#5	10.656	28219.49	57.95	1.0000	1	57.95	11.59
		44705.96	79.42			79.42	15.88

10/11/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.427	198269.58	286.04	1.0000	1	286.04	57.21
PCB1254#2	11.987	282204.29	291.77	1.0000	1	291.77	58.35
PCB1254#3	12.667	180042.43	303.69	1.0000	1	303.69	60.74
PCB1254#4	14.405	53128.42	324.49	1.0000	1	324.49	64.90
PCB1254#5	14.773	294823.47	315.54	1.0000	1	315.54	63.11
		1008468.20	1521.53			1521.53	304.31

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#2	14.093	132149.12	136.50	1.0000	1	136.50	27.30
PCB1260#3	15.175	11433.17	17.02	1.0000	1	17.02	3.40
PCB1260#4	15.751	16475.21	26.79	1.0000	1	26.79	5.36
PCB1260#5	16.412	36122.08	23.90	1.0000	1	23.90	4.78
		196179.57	204.21			204.21	40.84

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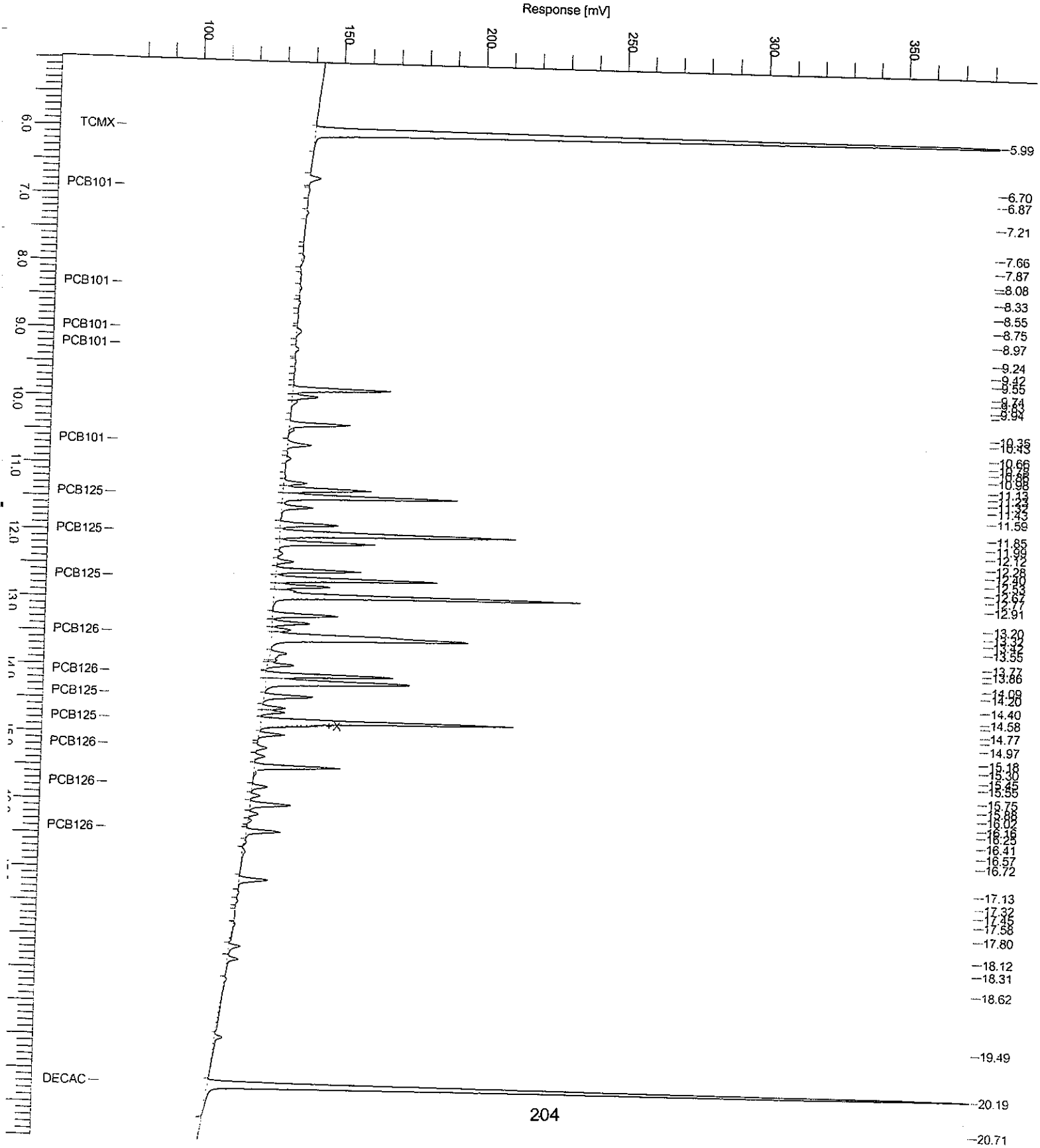
Report stored in ASCII file: G:\gc06\chb\284b005p.TX0

Sample Name : ccv,04ws1907,ar1254
FileName : G:\gc06\CHb\284b005.raw
Date : 10/11/04 5:09:14 PM
Method :
Start Time : 4.97 min
Plot Offset: 72.55 mV

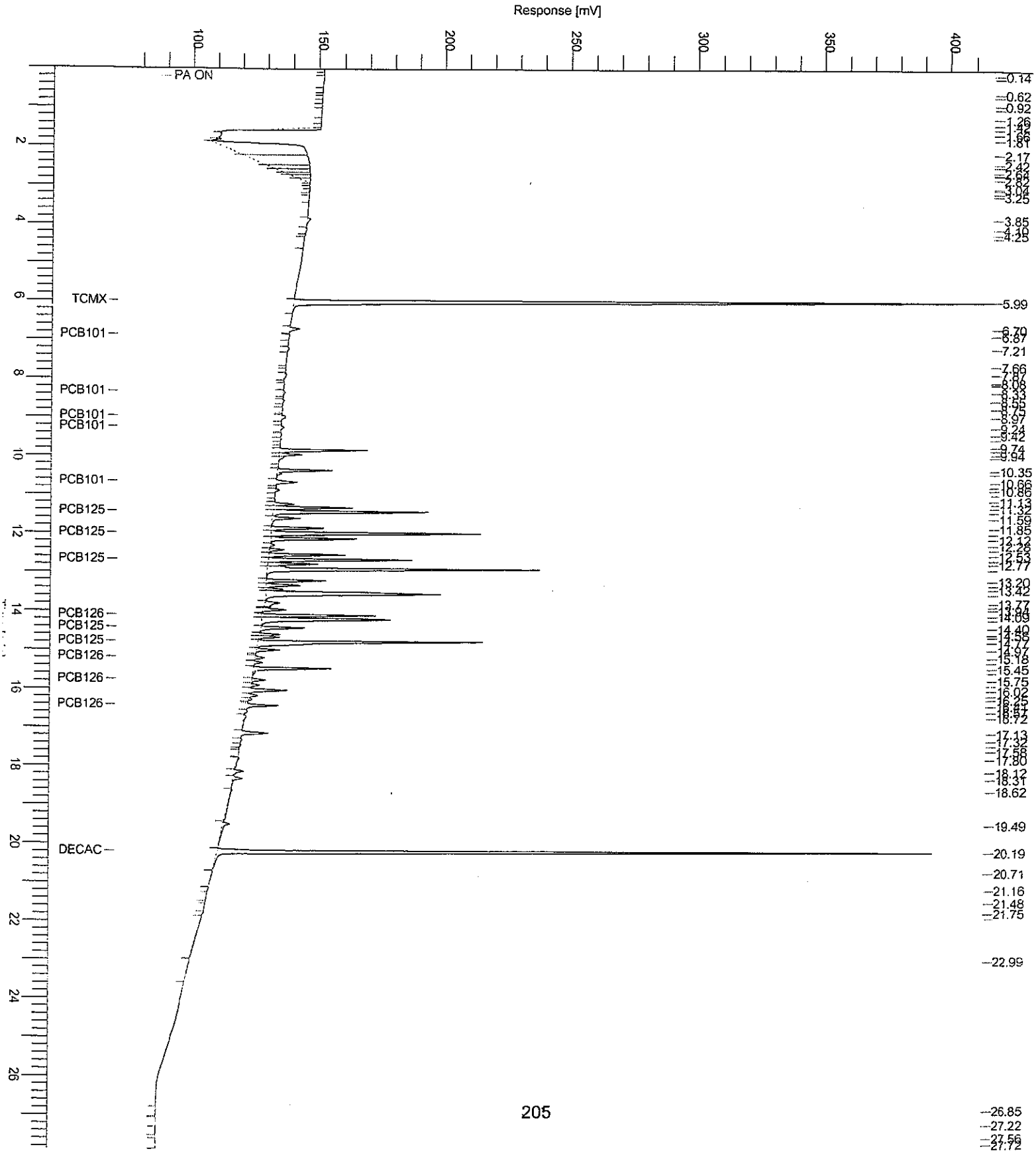
Sample #: 250ug/l

Time of Injection: 10/10/04 8:19:41 PM
End Time : 21.03 min
Plot Scale: 309.4 mV
Low Point : 72.55 mV
High Point : 382.00 mV



GC 06 Rtx-5

ample Name : ccv,04ws1907,ar1254 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHb\284b005
ate : 10/11/04 5:06:54 PM
ethod : gc06fsa1ul Time of Injection: 10/10/04 8:19:41 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 70.32 mV High Point : 417.34 mV
cale Factor: 1.0 Plot Offset: 70.32 mV Plot Scale: 347.0 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204411491007
Calnum : 204405784001
Standards: 04WS1854

Run Name : pcb250_50
Filename : 285_007
Caldate : 07-OCT-2004

IDF : 1.0
Injected : 11-OCT-2004 21:40
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	268.5854	pg	7	15	
Aroclor-1260	A			250.0000	287.2605	pg	15	15	
TCMX	A	13562	13849	50.00000	51.05635	pg	2	15	
Decachlorobiphenyl	A	9311.9	11576	50.00000	62.15515	pg	**24**	15	c+
Aroclor-1016	B			250.0000	246.0731	pg	-2	15	
Aroclor-1260	B			250.0000	251.9184	pg	1	15	
TCMX	B	19782	19327	50.00000	48.85112	pg	-2	15	
Decachlorobiphenyl	B	13064	13726	50.00000	52.53495	pg	5	15	

+=high bias c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1854,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/7
Sample Amount : 1.000000
Cycle : 7

Date : 10/12/04 9:41:15 AM
Data Acquisition Time : 10/11/04 9:40:56 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\285a007p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	692430.57	51.06	1.0000	1	51.06	10.21
Aroclor-1016	9.072	452975.75	266.65	1.0000	1	266.65	53.33
Aroclor-1254	15.400	683825.25	0.68	1.0000	1	0.68	0.14
Aroclor-1260	17.707	838064.32	284.32	1.0000	1	284.32	56.86
Decachlorobiphenyl	21.013	578784.35	62.16	1.0000	1	62.16	12.43
		3246080.25	664.86			664.86	132.97

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.121	81390.30	249.52	1.0000	1	249.52	49.90
PCB1016#2	9.072	151143.21	262.15	1.0000	1	262.15	52.43
PCB1016#3	10.798	73346.95	270.19	1.0000	1	270.19	54.04
PCB1016#4	11.265	56542.89	281.12	1.0000	1	281.12	56.22
PCB1016#5	11.682	90552.40	279.95	1.0000	1	279.95	55.99
		452975.75	1342.93			1342.93	268.59

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.641	57939.68	113.45	1.0000	1	113.45	22.69
PCB1254#2	13.956	40116.50	74.16	1.0000	1	74.16	14.83
PCB1254#3	14.270	36006.71	38.15	1.0000	1	38.15	7.63
PCB1254#4	15.400	264810.83	384.00	1.0000	1	384.00	76.80
PCB1254#5	16.081	284951.52	301.06	1.0000	1	301.06	60.21
		683825.25	910.82			910.82	182.16

FA
10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.717	156316.96	295.55	1.0000	1	295.55	59.11
PCB1260#2	15.702	96564.20	288.25	1.0000	1	288.25	57.65
PCB1260#3	16.352	144230.47	282.20	1.0000	1	282.20	56.44
PCB1260#4	16.955	129519.99	295.89	1.0000	1	295.89	59.18
PCB1260#5	17.707	311432.70	274.42	1.0000	1	274.42	54.88
		838064.32	1436.30			1436.30	287.26

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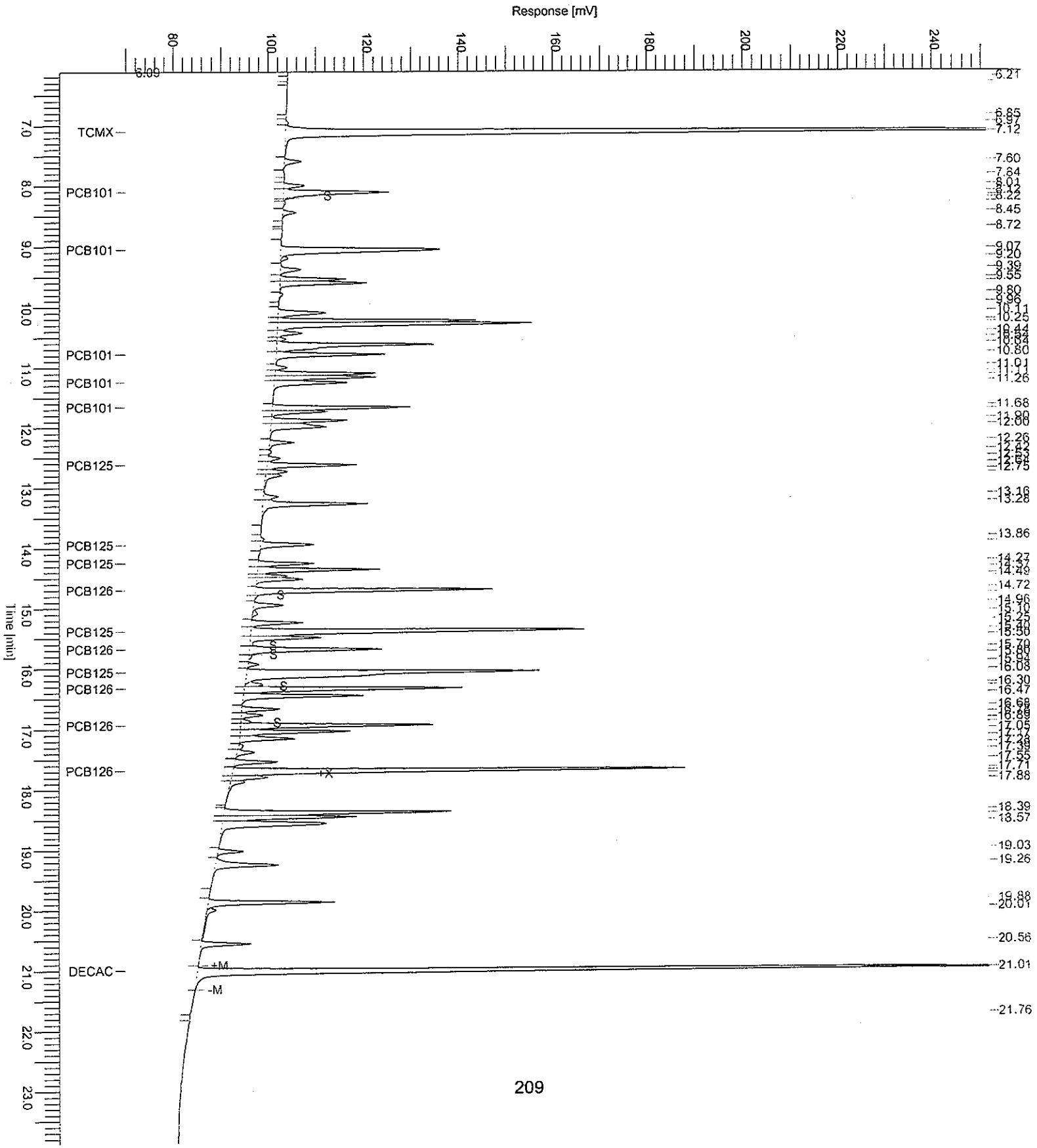
Report stored in ASCII file: G:\gc06\cha\285a007p.TX0

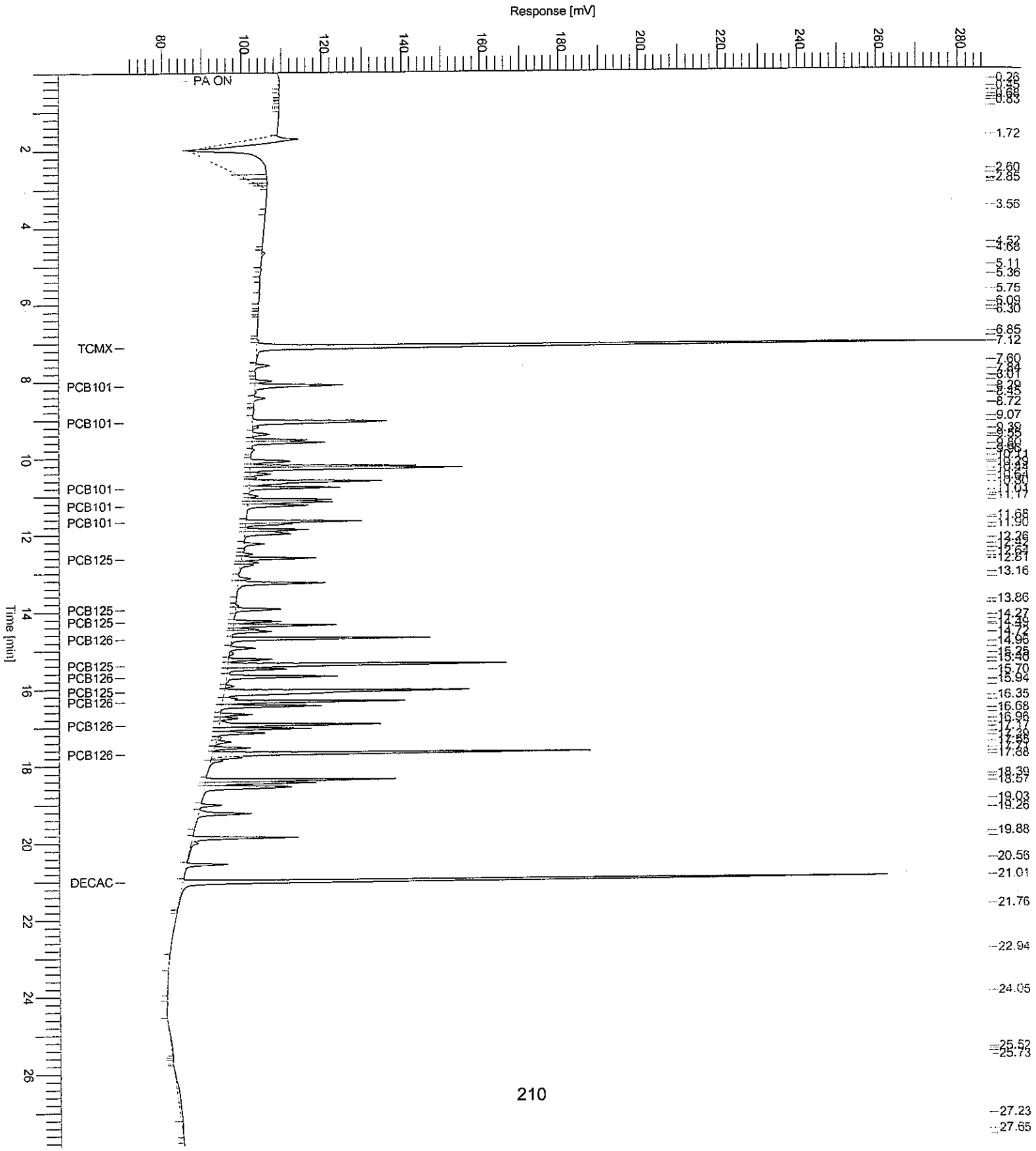
GC 06 Rtx-CLPesticides

Sample Name : x,ccv,04ws1854,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : g:\gc06\cha\285a007.raw
Date : 10/12/04 9:41:21 AM
Method : Time of Injection: 10/11/04 9:40:56 PM
Start Time : 6.12 min End Time : 23.88 min Low Point : 69.94 mV High Point : 251.16 mV
Plot Offset: 69.94 mV Plot Scale: 181.2 mV



GC 06 Rtx-CLPesticides

Sample Name : x,ccv,04ws1854,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : g:\gc06\cha\285a007.raw
Date : 10/12/04 9:33:16 AM
Method : gc06fsa1ul Time of Injection: 10/11/04 9:40:56 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 70.48 mV High Point : 287.08 mV
Scale Factor: 1.0 Plot Offset: 70.48 mV Plot Scale: 216.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1854,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/7
Sample Amount : 1.000000
Cycle : 7

Date : 10/12/04 9:43:29 AM
Data Acquisition Time : 10/11/04 9:40:56 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\285b007p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	966358.45	48.85	1.0000	1	48.85	9.77
Aroclor-1016	8.987	877616.81	247.37	1.0000	1	247.37	49.47
Aroclor-1254	14.773	683955.79	0.68	1.0000	1	0.68	0.14
Aroclor-1260	16.413	1146522.71	249.82	1.0000	1	249.82	49.96
Decachlorobiphenyl	20.187	686296.94	52.53	1.0000	1	52.53	10.51
		4360750.69	599.25			599.25	119.85

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.867	103295.91	235.03	1.0000	1	235.03	47.01
PCB1016#2	8.320	127981.00	246.89	1.0000	1	246.89	49.38
PCB1016#3	8.987	370598.43	249.58	1.0000	1	249.58	49.92
PCB1016#4	9.227	154641.49	250.16	1.0000	1	250.16	50.03
PCB1016#5	10.653	121099.98	248.70	1.0000	1	248.70	49.74
		877616.81	1230.37			1230.37	246.07

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.493	220801.90	268.27	1.0000	1	268.27	53.65
PCB1260#2	14.093	241597.91	249.56	1.0000	1	249.56	49.91
PCB1260#3	15.173	159648.65	237.66	1.0000	1	237.66	47.53
PCB1260#4	15.747	162887.46	264.90	1.0000	1	264.90	52.98
PCB1260#5	16.413	361586.78	239.21	1.0000	1	239.21	47.84
		1146522.71	1259.59			1259.59	251.92

Group Report For : Aroclor-1254

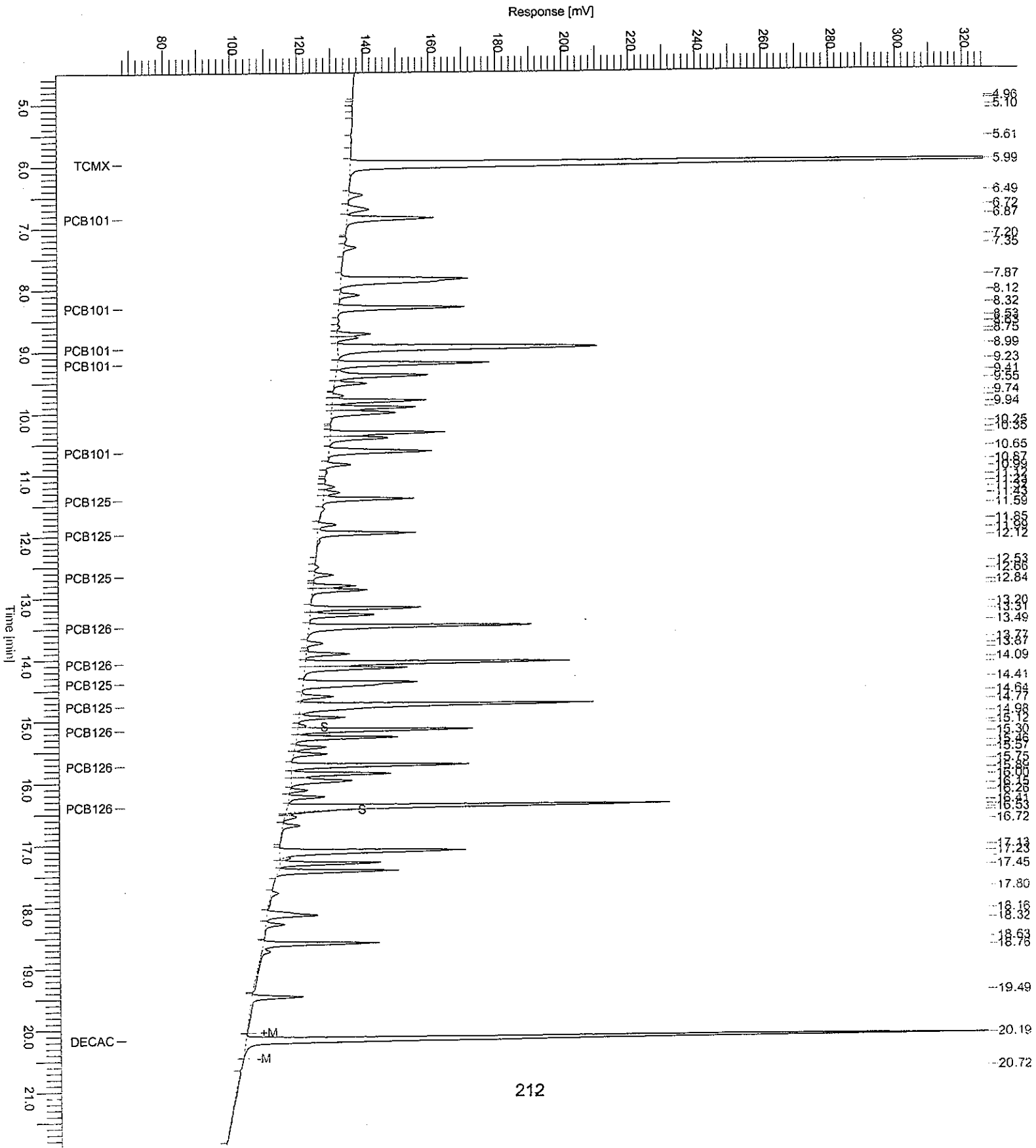
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.429	86000.00	108.44	1.0000	1	108.44	21.69
PCB1254#2	11.989	95414.67	84.53	1.0000	1	84.53	16.91
PCB1254#3	12.663	17335.22	24.07	1.0000	1	24.07	4.81
PCB1254#4	14.413	158088.16	743.90	1.0000	1	743.90	148.78
PCB1254#5	14.773	327117.74	277.38	1.0000	1	277.38	55.48
		683955.79	1238.32			1238.32	247.66

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\285b007p.TX0

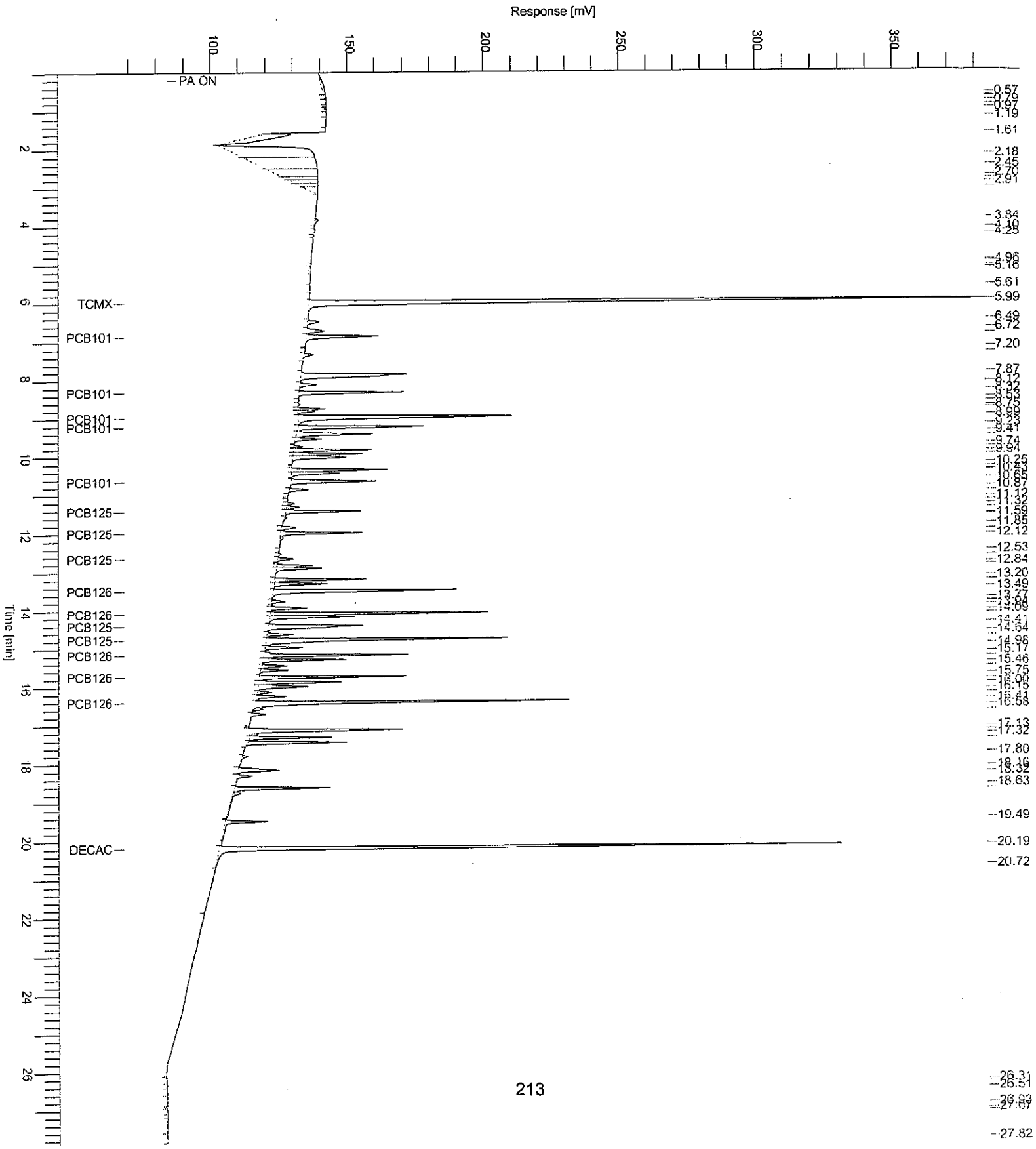
GC 06 Rtx-5

Sample Name : x,ccv,04ws1854,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : g:\gc06\chb\285b007.raw
Date : 10/12/04 9:43:36 AM
Method :
Time of Injection: 10/11/04 9:40:56 PM
Start Time : 4.51 min End Time : 21.88 min Low Point : 67.87 mV High Point : 326.44 mV
Plot Offset: 67.87 mV Plot Scale: 258.6 mV



GC 06 Rtx-5

Sample Name : x,ccv,04ws1854,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : g:\gc06\chb\285b007.raw
Date : 10/12/04 9:32:40 AM
Method : gc06fsa1ul Time of Injection: 10/11/04 9:40:56 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 68.66 mV High Point : 383.86 mV
Scale Factor: 1.0 Plot Offset: 68.66 mV Plot Scale: 315.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204411491009
Calnum : 204409828001
Standards: 04WS1907

Run Name : ar1254
Filename : 285_009
Caldate : 10-OCT-2004

IDF : 1.0
Injected : 11-OCT-2004 22:47
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	217.5121	pg	-13	15	
Aroclor-1254	B			250.0000	223.0040	pg	-11	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1907,ar1254
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 10/12/04 9:33:27 AM
Data Acquisition Time : 10/11/04 10:47:21 PM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHa\285a009.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	692373.55	51.05	1.0000	1	51.05	10.21
Aroclor-1016	11.681	54642.95	32.17	1.0000	1	32.17	6.43
Aroclor-1254	14.267	787284.55	0.79	1.0000	1	0.79	0.16
Aroclor-1260	14.718	161770.00	54.88	1.0000	1	54.88	10.98
Decachlorobiphenyl	21.013	623039.73	66.91	1.0000	1	66.91	13.38
		2319110.79	205.79			205.79	41.16

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.071	3309.36	5.74	1.0000	1	5.74	1.15
PCB1016#3	10.797	1170.94	4.31	1.0000	1	4.31	0.86
PCB1016#4	11.255	3625.11	18.02	1.0000	1	18.02	3.60
PCB1016#5	11.681	46537.54	143.87	1.0000	1	143.87	28.77
		54642.95	171.95			171.95	34.39

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.641	114625.05	224.44	1.0000	1	224.44	44.89
PCB1254#2	13.971	115856.25	214.16	1.0000	1	214.16	42.83
PCB1254#3	14.267	202264.68	214.31	1.0000	1	214.31	42.86
PCB1254#4	15.402	152629.70	221.33	1.0000	1	221.33	44.27
PCB1254#5	16.083	201908.88	213.32	1.0000	1	213.32	42.66
		787284.55	1087.56			1087.56	217.51

FA 10/11/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.718	76256.36	144.18	1.0000	1	144.18	28.84
PCB1260#2	15.700	40496.68	120.89	1.0000	1	120.89	24.18
PCB1260#3	16.345	7690.03	15.05	1.0000	1	15.05	3.01
PCB1260#4	16.954	9562.77	21.85	1.0000	1	21.85	4.37
PCB1260#5	17.703	27764.16	24.46	1.0000	1	24.46	4.89
		161770.00	326.42			326.42	65.28

----------CURTIS & TOMPKINS LTD----------

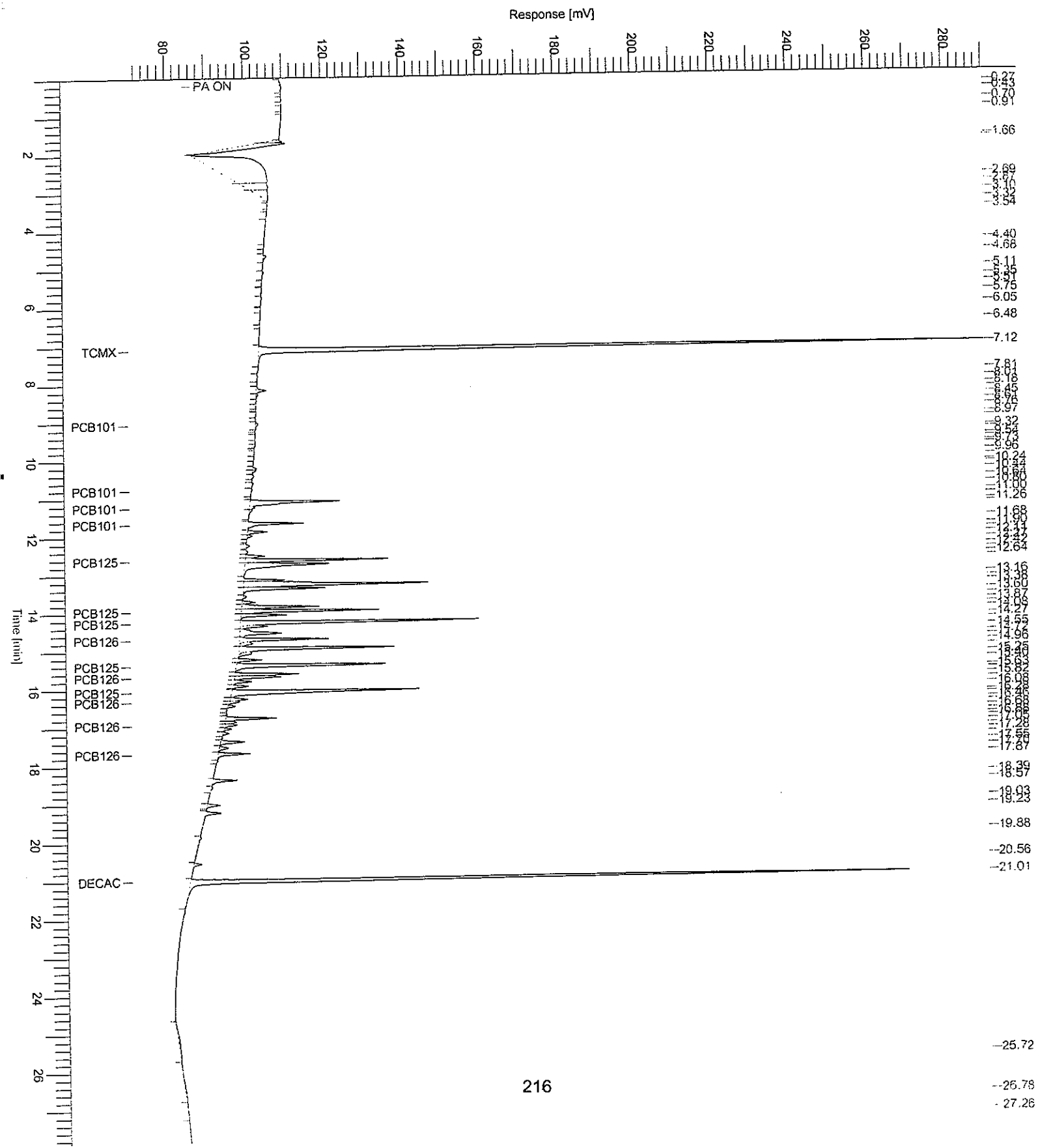
Report stored in ASCII file: G:\gc06\CHa\285a009.TX0

GC 06 Rtx-CLPesticides

ample Name : ccv,04ws1907,ar1254
leName : g:\gc06\cha\285a009.raw
ate : 10/12/04 9:33:32 AM
ethod : gc06fsa1ul
art Time : 0.00 min
cale Factor: 1.0

Sample #: 250ug/l
Page 1 of 1

Time of Injection: 10/11/04 10:47:21 PM
End Time : 27.88 min
Low Point : 70.15 mV
High Point : 290.46 mV
Plot Offset: 70.15 mV
Plot Scale: 220.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1907,ar1254
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 10/12/04 9:32:49 AM
Data Acquisition Time : 10/11/04 10:47:21 PM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHb\285b009.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	972194.22	49.15	1.0000	1	49.15	9.83
Aroclor-1016	10.657	41590.48	11.72	1.0000	1	11.72	2.34
Aroclor-1254	11.987	896874.85	0.90	1.0000	1	0.90	0.18
Aroclor-1260	14.093	166727.21	36.33	1.0000	1	36.33	7.27
Decachlorobiphenyl	20.187	727073.71	55.66	1.0000	1	55.66	11.13
		2804460.48	153.75			153.75	30.75

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.869	1784.05	4.06	1.0000	1	4.06	0.81
PCB1016#2	8.324	2392.70	4.62	1.0000	1	4.62	0.92
PCB1016#3	8.971	7235.43	4.87	1.0000	1	4.87	0.97
PCB1016#4	9.240	4153.04	6.72	1.0000	1	6.72	1.34
PCB1016#5	10.657	26025.26	53.45	1.0000	1	53.45	10.69
		41590.48	73.71			73.71	14.74

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#2	14.093	112246.96	115.95	1.0000	1	115.95	23.19
PCB1260#3	15.178	9427.08	14.03	1.0000	1	14.03	2.81
PCB1260#4	15.756	16118.19	26.21	1.0000	1	26.21	5.24
PCB1260#5	16.416	28934.98	19.14	1.0000	1	19.14	3.83
		166727.21	175.33			175.33	35.07

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.427	180359.17	227.42	1.0000	1	227.42	45.48
PCB1254#2	11.987	249942.97	221.42	1.0000	1	221.42	44.28
PCB1254#3	12.667	153148.34	212.66	1.0000	1	212.66	42.53
PCB1254#4	14.410	48671.04	229.03	1.0000	1	229.03	45.81
PCB1254#5	14.773	264753.34	224.50	1.0000	1	224.50	44.90
		896874.85	1115.02			1115.02	223.00

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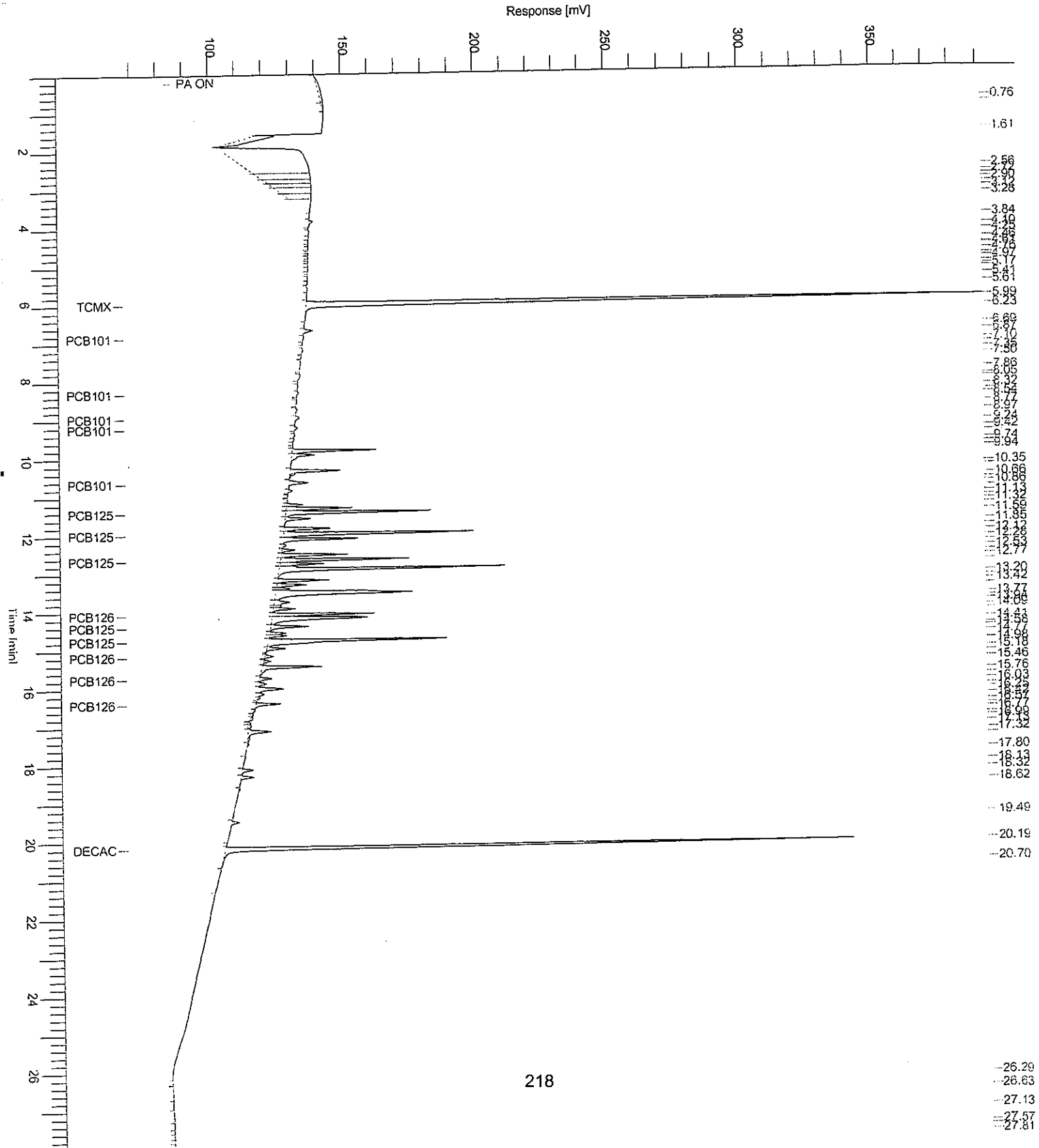
GC 06 Rtx-5

mple Name : ccv,04ws1907,ar1254
eName : g:\gc06\chb\285b009.raw
te : 10/12/04 9:32:54 AM
thod : gc06fsa1ul
art Time : 0.00 min End Time : 27.88 min
ale Factor: 1.0 Plot Offset: 67.26 mV

Sample #: 250ug/l Page 1 of 1

Time of Injection: 10/11/04 10:47:21 PM
Low Point : 67.26 mV High Point : 392.13 mV
Plot Scale: 324.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204411491023
Calnum : 204405784001
Standards: 04WS1855

Run Name : pcb500_100
Filename : 285_023
Caldate : 07-OCT-2004

IDF : 1.0
Injected : 12-OCT-2004 06:32
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	532.8908	pg	7	15	
Aroclor-1260	A			500.0000	575.3477	pg	15	15	
TCMX	A	13562	13625	100.0000	100.4641	pg	0	15	
Decachlorobiphenyl	A	9311.9	10382	100.0000	111.4922	pg	11	15	
Aroclor-1016	B			500.0000	499.6040	pg	0	15	
Aroclor-1260	B			500.0000	516.5857	pg	3	15	
TCMX	B	19782	18992	100.0000	96.00653	pg	-4	15	
Decachlorobiphenyl	B	13064	12473	100.0000	95.48022	pg	-5	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1855,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/23
Sample Amount : 1.000000
Cycle : 23

Date : 10/12/04 9:53:02 AM
Data Acquisition Time : 10/12/04 6:32:28 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\cha\285a023p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	1362502.18	100.46	1.0000	1	100.46	20.09
Aroclor-1016	9.080	892563.89	525.41	1.0000	1	525.41	105.08
Aroclor-1254	15.400	1373647.71	1.37	1.0000	1	1.37	0.27
Aroclor-1260	17.707	1668007.67	565.88	1.0000	1	565.88	113.18
Decachlorobiphenyl	21.027	1038207.40	111.49	1.0000	1	111.49	22.30
		6334928.85	1304.62			1304.62	260.92

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.125	160770.25	492.88	1.0000	1	492.88	98.58
PCB1016#2	9.080	288130.68	499.75	1.0000	1	499.75	99.95
PCB1016#3	10.802	149709.38	551.49	1.0000	1	551.49	110.30
PCB1016#4	11.269	112522.36	559.43	1.0000	1	559.43	111.89
PCB1016#5	11.686	181431.22	560.91	1.0000	1	560.91	112.18
		892563.89	2664.45			2664.45	532.89

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.644	114114.52	223.44	1.0000	1	223.44	44.69
PCB1254#2	13.960	86391.71	159.70	1.0000	1	159.70	31.94
PCB1254#3	14.276	76665.89	81.23	1.0000	1	81.23	16.25
PCB1254#4	15.400	517901.48	751.01	1.0000	1	751.01	150.20
PCB1254#5	16.080	578574.12	611.29	1.0000	1	611.29	122.26
		1373647.71	1826.66			1826.66	365.33

PA
10/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.720	310134.72	586.37	1.0000	1	586.37	117.27
PCB1260#2	15.706	198901.27	593.74	1.0000	1	593.74	118.75
PCB1260#3	16.360	284461.71	556.57	1.0000	1	556.57	111.31
PCB1260#4	16.960	263291.71	601.50	1.0000	1	601.50	120.30
PCB1260#5	17.707	611218.25	538.57	1.0000	1	538.57	107.71
		1668007.67	2876.74			2876.74	575.35

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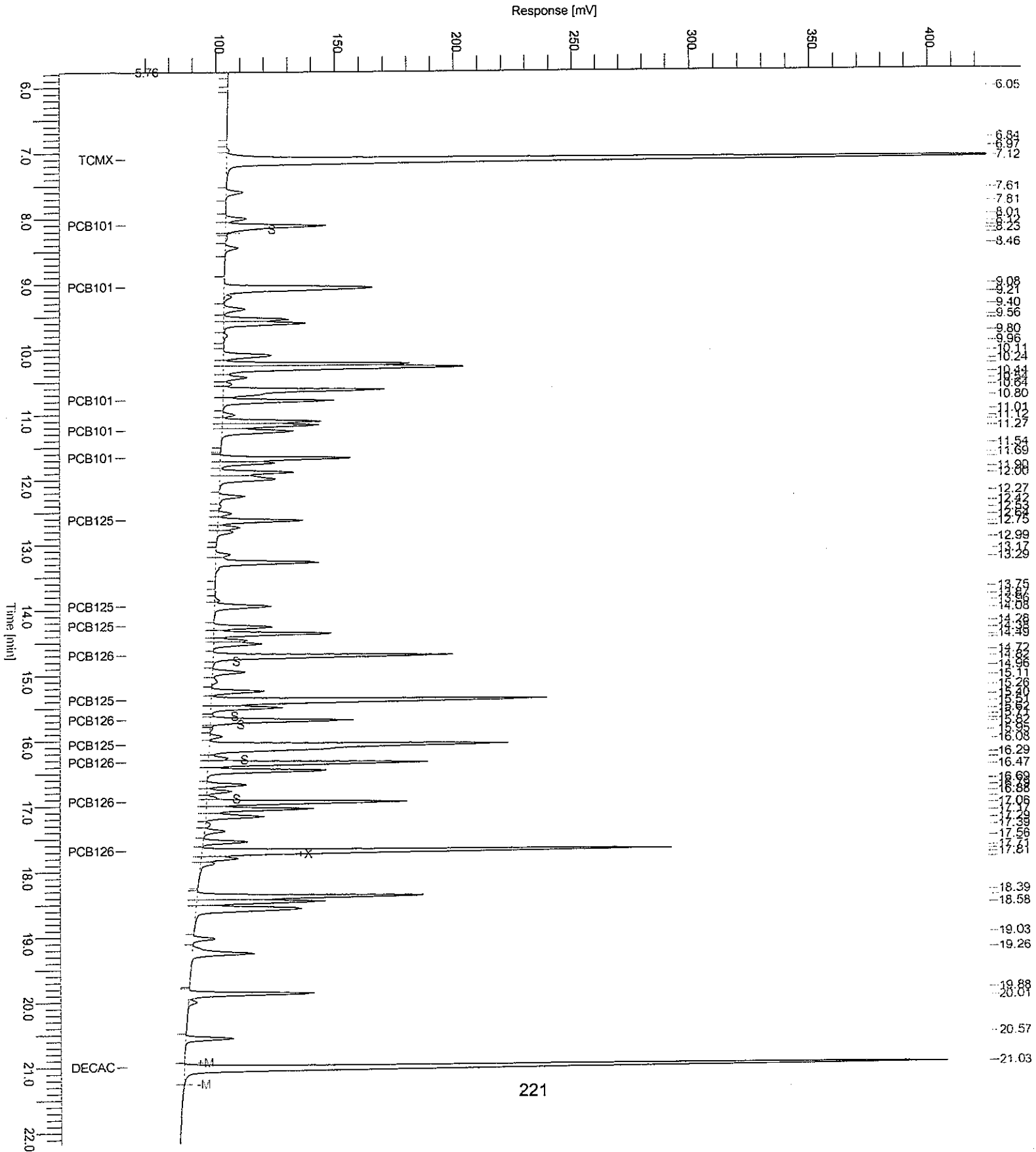
Report stored in ASCII file: G:\gc06\cha\285a023p.TX0

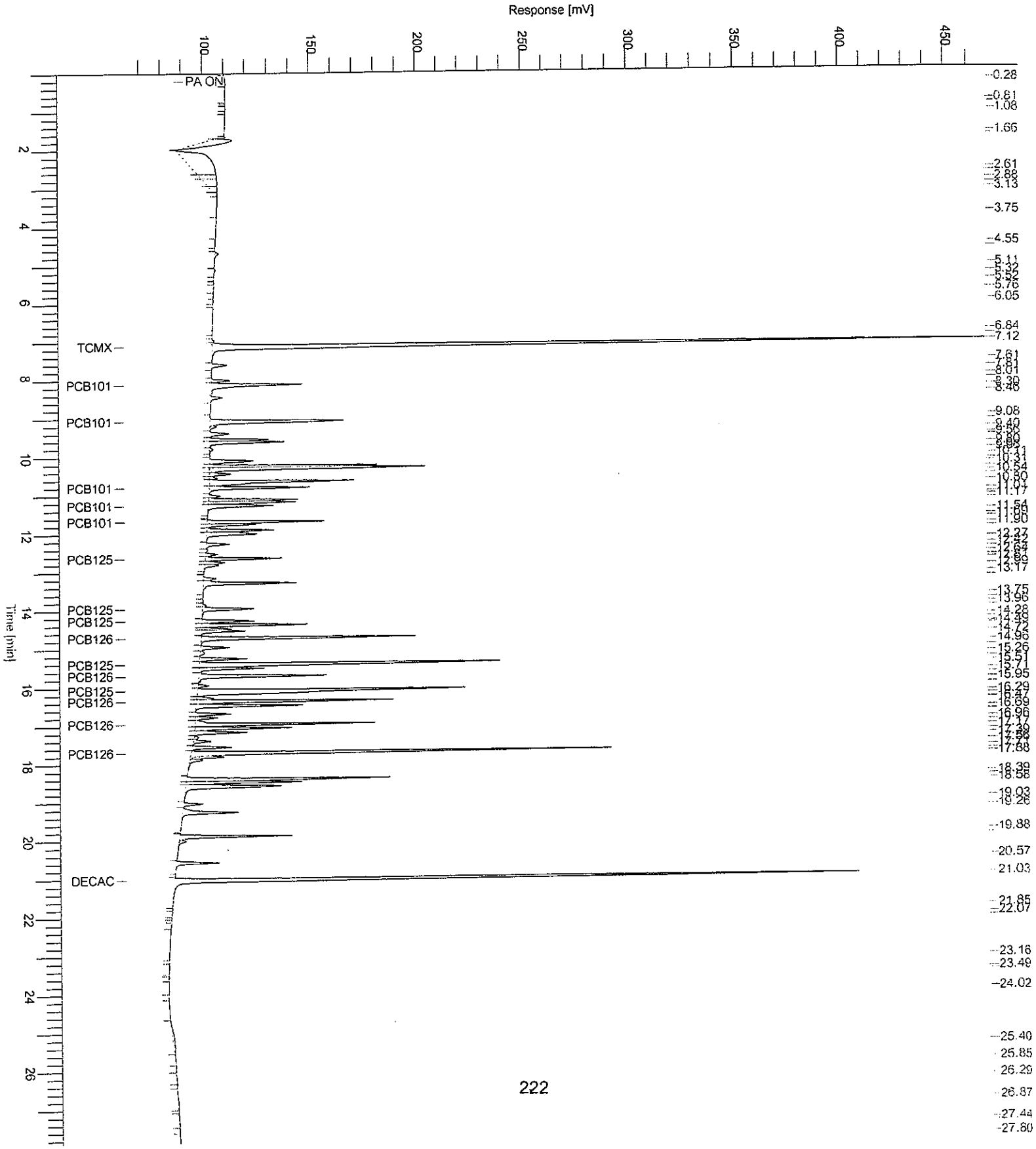
GC 06 Rtx-CLPesticides

Sample Name : ccv,04ws1855,pcb500_100 Sample #: 500ug/l
FileName : g:\gc06\cha\285a023.raw
Date : 10/12/04 9:53:08 AM
Method :
Time of Injection: 10/12/04 6:32:28 AM
Start Time : 5.77 min End Time : 22.17 min Low Point : 61.42 mV High Point : 424.75 mV
Plot Offset: 61.42 mV Plot Scale: 363.3 mV



GC 06 Rtx-CLPesticides

ample Name : ccv,04ws1855,pcb500_100 Sample #: 500ug/l Page 1 of 1
ileName : g:\gc06\cha\285a023.raw
ate : 10/12/04 9:37:19 AM
lethod : gc06fsa1ul Time of Injection: 10/12/04 6:32:28 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 62.44 mV High Point : 468.50 mV
cale Factor: 1.0 Plot Offset: 62.44 mV Plot Scale: 406.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1855,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/23
Sample Amount : 1.000000
Cycle : 23

Date : 10/12/04 9:46:28 AM
Data Acquisition Time : 10/12/04 6:32:28 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\chb\285b023p.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1899173.02	96.01	1.0000	1	96.01	19.20
Aroclor-1016	8.987	1785721.30	503.32	1.0000	1	503.32	100.66
Aroclor-1254	14.773	1433712.75	1.43	1.0000	1	1.43	0.29
Aroclor-1260	16.413	2351292.79	512.33	1.0000	1	512.33	102.47
Decachlorobiphenyl	20.187	1247317.73	95.48	1.0000	1	95.48	19.10
		8717217.61	1208.57			1208.57	241.71

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.867	201758.81	459.07	1.0000	1	459.07	91.81
PCB1016#2	8.333	252608.33	487.31	1.0000	1	487.31	97.46
PCB1016#3	8.987	754420.76	508.07	1.0000	1	508.07	101.61
PCB1016#4	9.227	324001.81	524.14	1.0000	1	524.14	104.83
PCB1016#5	10.667	252931.59	519.44	1.0000	1	519.44	103.89
		1785721.30	2498.02			2498.02	499.60

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.507	448627.08	545.07	1.0000	1	545.07	109.01
PCB1260#2	14.093	491618.22	507.82	1.0000	1	507.82	101.56
PCB1260#3	15.187	327044.22	486.85	1.0000	1	486.85	97.37
PCB1260#4	15.760	337995.14	549.67	1.0000	1	549.67	109.93
PCB1260#5	16.413	746008.13	493.53	1.0000	1	493.53	98.71
		2351292.79	2582.93			2582.93	516.59

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.427	179295.55	226.08	1.0000	1	226.08	45.22
PCB1254#2	12.000	193844.99	171.72	1.0000	1	171.72	34.34
PCB1254#3	12.667	39991.74	55.53	1.0000	1	55.53	11.11
PCB1254#4	14.413	340207.72	1600.87	1.0000	1	1600.87	320.17
PCB1254#5	14.773	680372.76	576.93	1.0000	1	576.93	115.39
		1433712.75	2631.14			2631.14	526.23

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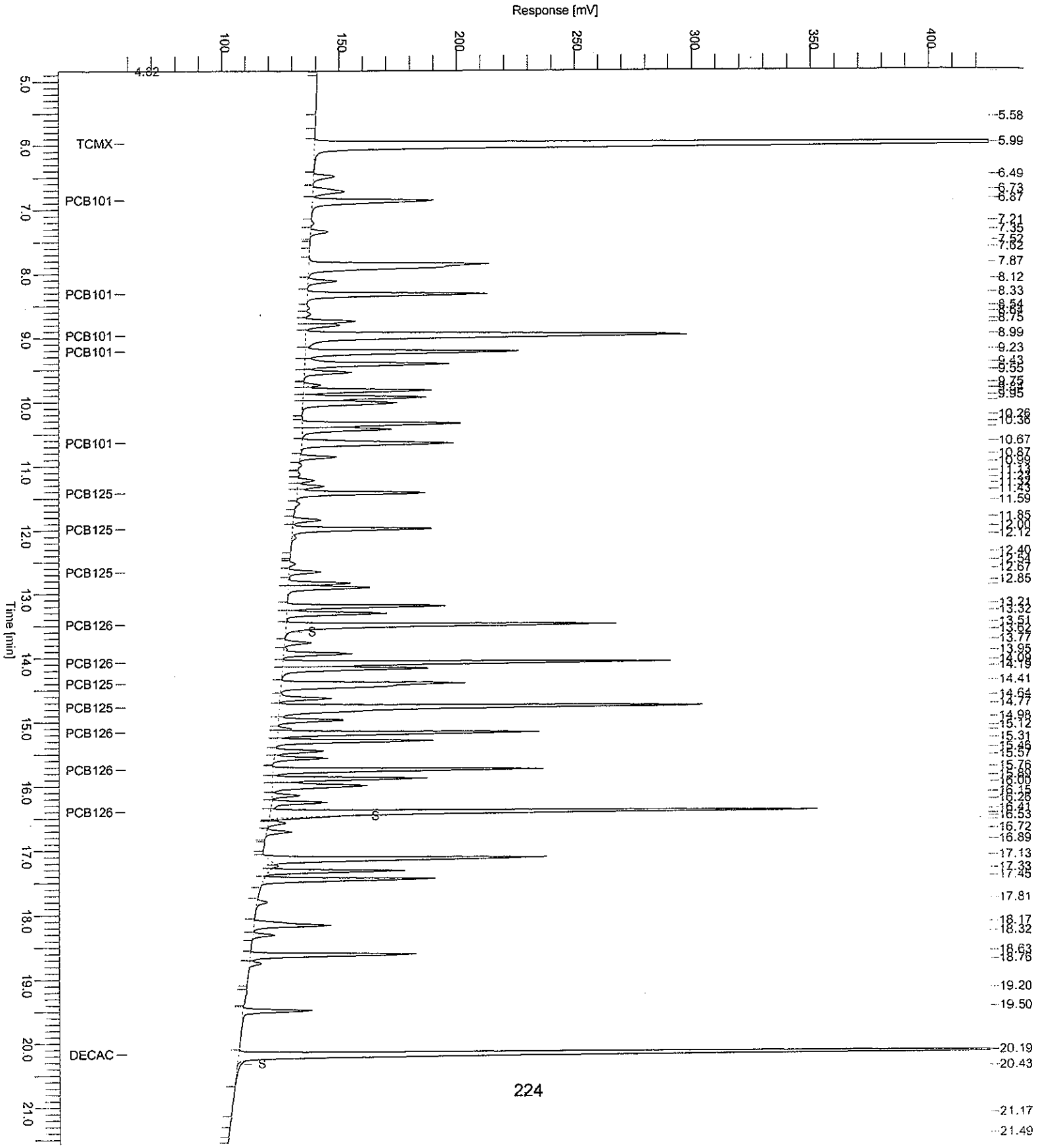
Report stored in ASCII file: G:\gc06\chb\285b023p.TX0

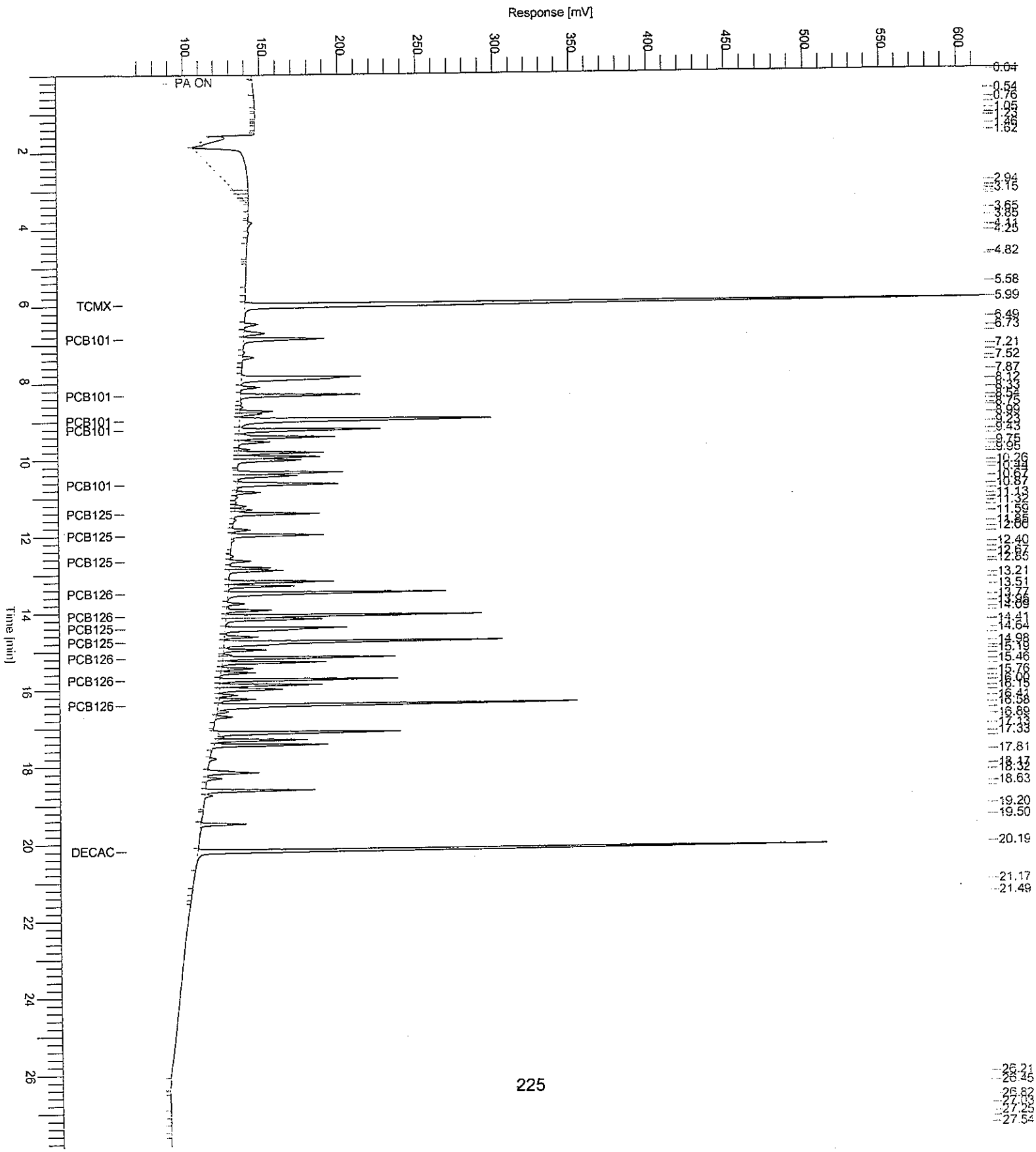
GC 06 Rtx-5

Sample Name : ccv,04ws1855,pcb500_100 Sample #: 500ug/l Page 1 of 1
FileName : g:\gc06\chb\285b023.raw
Date : 10/12/04 9:46:35 AM
Method : Time of Injection: 10/12/04 6:32:28 AM
Start Time : 4.84 min End Time : 21.57 min Low Point : 58.83 mV High Point : 425.36 mV
Plot Offset: 58.83 mV Plot Scale: 366.5 mV



GC 06 Rtx-5

ample Name : ccv,04ws1855,pcb500_100 Sample #: 500ug/l Page 1 of 1
ileName : g:\gc06\chb\285b023.raw
ate : 10/12/04 9:37:48 AM
lethod : gc06fsa1ul Time of Injection: 10/12/04 6:32:28 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 60.23 mV High Point : 617.85 mV
cale Factor: 1.0 Plot Offset: 60.23 mV Plot Scale: 557.6 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204411491025
Calnum : 204409828001
Standards: 04WS1907

Run Name : ar1254
Filename : 285_025
Caldate : 10-OCT-2004

IDF : 1.0
Injected : 12-OCT-2004 07:38
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	241.1174	pg	-4	15	
Aroclor-1254	B			250.0000	251.7456	pg	1	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1907,ar1254
Instrument Name : gc06
Rack/Vial : 1/25
Sample Amount : 1.000000
Cycle : 25

Date : 10/12/04 9:37:29 AM
Data Acquisition Time : 10/12/04 7:38:53 AM
Channel : A
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHa\285a025.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.120	746512.03	55.04	1.0000	1	55.04	11.01
Aroclor-1016	11.685	58809.94	34.62	1.0000	1	34.62	6.92
Aroclor-1254	14.280	873190.05	0.87	1.0000	1	0.87	0.17
Aroclor-1260	14.722	174688.17	59.26	1.0000	1	59.26	11.85
Decachlorobiphenyl	21.027	689591.05	74.05	1.0000	1	74.05	14.81
		2542791.24	223.85			223.85	44.77

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.105	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.074	3025.01	5.25	1.0000	1	5.25	1.05
PCB1016#3	10.801	1034.03	3.81	1.0000	1	3.81	0.76
PCB1016#4	11.264	3731.60	18.55	1.0000	1	18.55	3.71
PCB1016#5	11.685	51019.29	157.73	1.0000	1	157.73	31.55
		58809.94	185.34			185.34	37.07

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.646	126314.31	247.33	1.0000	1	247.33	49.47
PCB1254#2	13.975	129068.60	238.59	1.0000	1	238.59	47.72
PCB1254#3	14.280	223711.95	237.03	1.0000	1	237.03	47.41
PCB1254#4	15.406	168378.47	244.16	1.0000	1	244.16	48.83
PCB1254#5	16.087	225716.73	238.48	1.0000	1	238.48	47.70
		873190.05	1205.59			1205.59	241.12

FA
10/12/04

Group Report For : Aroclor-1260

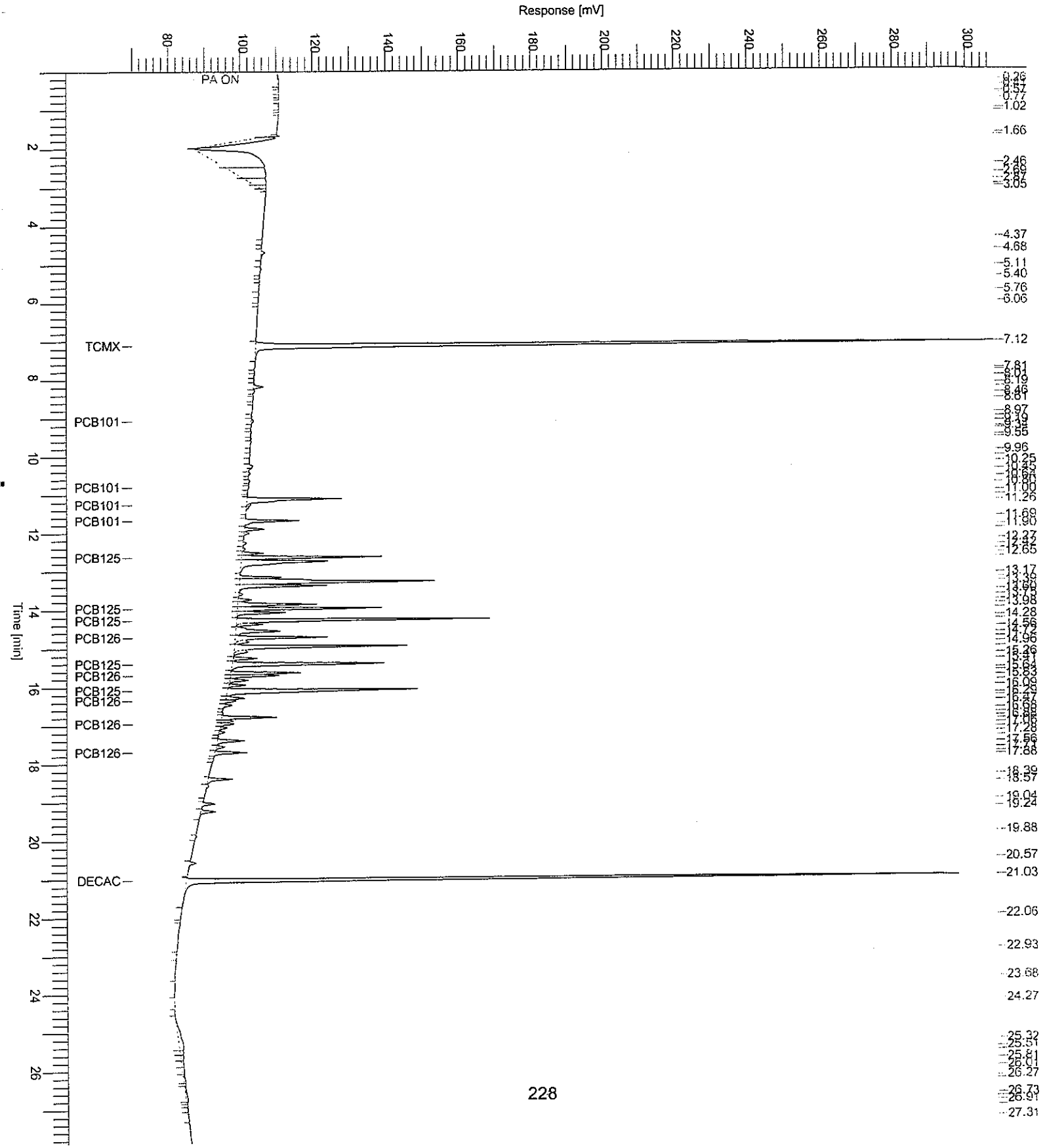
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.722	83843.04	158.52	1.0000	1	158.52	31.70
PCB1260#2	15.704	43759.72	130.63	1.0000	1	130.63	26.13
PCB1260#3	16.354	8253.26	16.15	1.0000	1	16.15	3.23
PCB1260#4	16.957	10558.57	24.12	1.0000	1	24.12	4.82
PCB1260#5	17.706	28273.59	24.91	1.0000	1	24.91	4.98
		174688.17	354.33			354.33	70.87

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\CHa\285a025.TX0

GC 06 Rtx-CLPesticides

Sample Name : ccv,04ws1907,ar1254 Sample #: 250ug/l Page 1 of 1
FileName : g:\gc06\cha\285a025.raw
Date : 10/12/04 9:37:34 AM
Method : gc06fsa1ul Time of Injection: 10/12/04 7:38:53 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 69.96 mV High Point : 307.87 mV
Scale Factor: 1.0 Plot Offset: 69.96 mV Plot Scale: 237.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1907,ar1254
Instrument Name : gc06
Rack/Vial : 1/25
Sample Amount : 1.000000
Cycle : 25

Date : 10/12/04 9:38:00 AM
Data Acquisition Time : 10/12/04 7:38:53 AM
Channel : B
Operator : pc_pest01
Dilution Factor : 1.000000

Result File : G:\gc06\CHb\285b025.rst
Sequence File : G:\gc06\files\285.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	5.987	1071107.49	54.15	1.0000	1	54.15	10.83
Aroclor-1016	10.663	49101.12	13.84	1.0000	1	13.84	2.77
Aroclor-1254	11.987	1010931.84	1.01	1.0000	1	1.01	0.20
Aroclor-1260	14.093	188991.74	41.18	1.0000	1	41.18	8.24
Decachlorobiphenyl	20.187	834410.94	63.87	1.0000	1	63.87	12.77
		3154543.14	174.05			174.05	34.81

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	6.871	1623.23	3.69	1.0000	1	3.69	0.74
PCB1016#2	8.330	2301.96	4.44	1.0000	1	4.44	0.89
PCB1016#3	8.976	9143.58	6.16	1.0000	1	6.16	1.23
PCB1016#4	9.243	4927.53	7.97	1.0000	1	7.97	1.59
PCB1016#5	10.663	31104.82	63.88	1.0000	1	63.88	12.78
		49101.12	86.14			86.14	17.23

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	13.492	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#2	14.093	128258.15	132.48	1.0000	1	132.48	26.50
PCB1260#3	15.183	11603.10	17.27	1.0000	1	17.27	3.45
PCB1260#4	15.759	15290.99	24.87	1.0000	1	24.87	4.97
PCB1260#5	16.418	33839.50	22.39	1.0000	1	22.39	4.48
		188991.74	197.01			197.01	39.40

Group Report For : Aroclor-1254

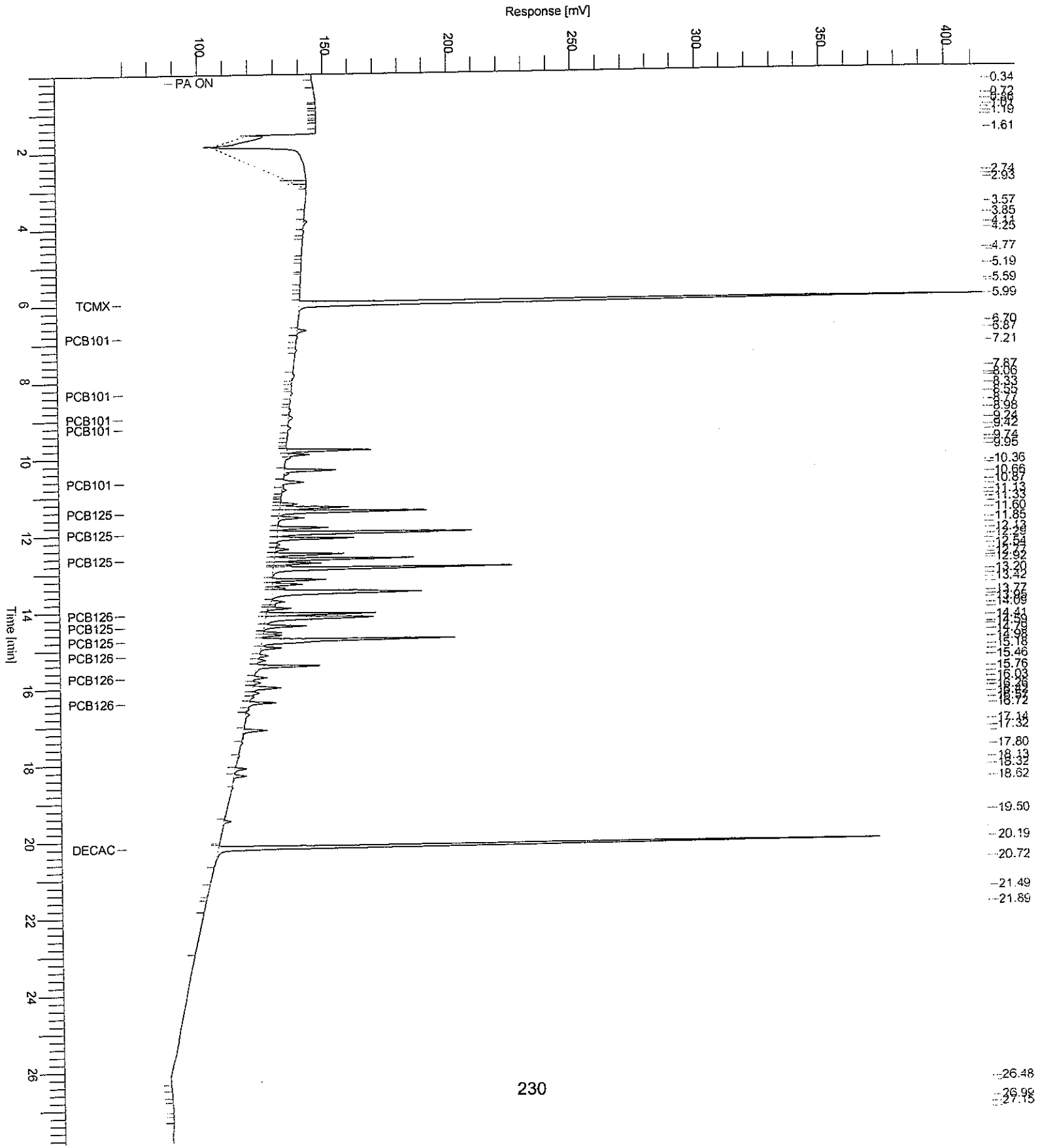
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.440	199759.12	251.88	1.0000	1	251.88	50.38
PCB1254#2	11.987	280727.54	248.69	1.0000	1	248.69	49.74
PCB1254#3	12.667	173342.34	240.70	1.0000	1	240.70	48.14
PCB1254#4	14.413	55643.44	261.83	1.0000	1	261.83	52.37
PCB1254#5	14.787	301459.40	255.63	1.0000	1	255.63	51.13
		1010931.84	1258.73			1258.73	251.75

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\CHb\285b025.TX0

GC 06 Rtx-5

ample Name : ccv,04ws1907,ar1254 Sample #: 250ug/l Page 1 of 1
leName : g:\gc06\chb\285b025.raw
ate : 10/12/04 9:38:05 AM
ethod : gc06fsa1ul Time of Injection: 10/12/04 7:38:53 AM
art Time : 0.00 min End Time : 27.88 min Low Point : 69.30 mV High Point : 413.97 mV
cale Factor: 1.0 Plot Offset: 69.30 mV Plot Scale: 344.7 mV



MOISTURE DATA

Percent Moisture Summary Report

Batch: 95274
Date: 10/08/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175141-002	10.9255	18.8777	18.5163	95	5
175141-003	15.2567	22.2113	22.1431	99	1
175141-004	15.0494	22.5615	22.4550	99	1
175141-005	11.0493	19.0626	18.9082	98	2
175141-006	10.9358	18.7028	18.6223	99	1
175141-007	10.9331	18.3537	18.2635	99	1
175141-010	15.5842	22.7842	22.6887	99	1
QC267285 of 175141-010	10.9937	19.0930	18.9827	99	1
			RPD:	0.0%	2.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95274
Date Started: 07-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
175141-002			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-003			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-004			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-005			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-006			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-007			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-010			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
QC267285	SDUP	of 175141-010		Soil	MOISTURE	

10/7/04

95274

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	RA	11.0029	—	11.0028	
175141-2	A	RC	10.9255	18.8777	18.5163	
3		9A	15.2567	22.2113	22.1431	
4		103	15.0494	22.5615	22.4550	
5		B10	11.0493	19.8626	18.9082	
6		VED	10.9358	18.7028	18.6223	
7		ZAX	10.9331	18.3537	18.2435	
10		5X	15.5842	22.7842	22.6887	
DUP. 10		BDO	10.9937	19.8938	18.9827	

OVEN TEMP: 104°C
TIME IN: 5:30 P.M.
TIME OUT: 8:25 A.M. ON: 10-8-04

Continued on Page

Read and Understood By

D. Morrow 10-7-04 10/8/04
Signed Date Signed Date

Percent Moisture Summary Report

Batch: 95335
Date: 10/11/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175043-001	11.1875	18.1785	12.9724	26	74
175043-002	10.9942	18.0834	12.7766	25	75
175043-004	11.0707	18.3448	12.1390	15	85
175043-005	11.0521	19.4830	13.6454	31	69
175043-007	11.2430	18.3740	12.8000	22	78
175043-010	15.6101	22.4980	16.4261	12	88
175043-011	11.0427	19.1054	12.1676	14	86
175043-016	15.2570	20.7811	16.2340	18	82
175043-017	10.9328	16.1384	11.8770	18	82
175059-047	15.3163	22.1672	21.8631	96	4
175059-049	10.9900	18.5694	17.7573	89	11
175059-064	15.5723	22.1421	21.2435	86	14
175059-065	11.0035	18.5803	17.5199	86	14
175059-071	11.0500	18.7381	18.0219	91	9
175059-072	15.5826	22.3131	21.5802	89	11
175141-001	11.1350	19.2009	19.1169	99	1
175141-009	11.0717	19.5083	19.4316	99	1
175164-001	11.0658	18.5680	18.1558	95	5
QC267536 of 175043-011	15.7997	22.8207	16.7955	14	86
			RPD:	1.6%	0.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95335
Date Started: 11-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175043-001		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-002		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-004		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-005		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-007		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-010		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-011		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-016		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-017		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175059-047		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-049		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-064		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-065		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-071		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-072		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175141-001		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-009		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175164-001		Blasland, Bouck &	Soil	MOISTURE	14-OCT-2004
QC267536	SDUP of 175043-011		Miscell.	MOISTURE	

10/10/04

95335

Sample		B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	1D	15.7378	—	15.7378	
175059	47	A	117L	15.3163	22.1672	21.8631	
	49		2	10.9900	18.5694	17.7573	
	64		9D	15.5723	22.1421	21.2435	
	65		12A	11.0035	18.5603	17.5199	
	71		B11G	11.0500	18.7381	18.0219	
	72		5X	15.5826	22.3131	21.5602	
175043	1		DHW	11.1875	18.1785	12.9724	COMP. A-D
	2		B12D	10.9942	18.0834	12.7766	
	4		B10J	11.0707	18.3448	12.1390	COMP. A-D
	5		B10D	11.0521	19.4830	13.6454	
	7		D	11.2430	18.3740	12.8000	
	10		BL	15.6101	22.4980	16.4261	
	11		B10Y	11.0427	19.1054	12.1674	
DMP	11		LOU	15.7997	22.8207	16.7955	
	16		9A	15.2570	20.7811	16.2340	COMP. A-B
	17		2AX	10.9328	16.1384	11.8770	COMP. A-B
175141	1		B11G	11.1350	19.2009	19.1169	
	9		B112	11.0717	19.5083	19.4316	
175164	1		WDA	11.0658	18.5680	18.1558	

OVEN TEMP: 103°C
TIME IN: 3:00 P.M.
TIME OUT: 9:57 A.M. ON: 10-11-04

Continued on Page

Read and Understood By

D. Manning 10-10-04 Signed Date

Signed Date 10/11/04

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175141
Organochlorine Pesticides
Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
BB4EX100[0.5]	175141-001
BB4EX101[0.5]	175141-002
BB4EX102[0.5]	175141-003
BB4EX103[0.5]	175141-004
BB4EX104[0.5]	175141-005
BB4EX105[0.5]	175141-006
BB4EX106[0.5]	175141-007
DUP100704A	175141-009
BB4EX107[0.5]	175141-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/16/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PESTICIDES (EPA 8081A)

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for nine soil samples, requested for the above referenced project on 10/07/04. The samples were received cold and intact.

Pesticides (EPA 8081A):

High response was observed for methoxychlor in the ICV analyzed 09/25/04 00:07; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples.

High breakdown was observed for 4,4'-DDT in the PEM analyzed 10/09/04 06:08.

Low responses were observed for 4,4'-DDT and endrin ketone in the CCV analyzed 10/11/04 12:04; average CCV drift met method requirements.

Low recoveries were observed for 4,4'-DDT in the MS/MSD for batch 95271; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.

BB4EX104[0.5] (lab # 175141-005) was diluted due to the dark, viscous nature of the sample extract.

High surrogate recovery was observed for decachlorobiphenyl in BB4EX102[0.5] (lab # 175141-003); the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample.

High surrogate recovery was observed for TCMX in BB4EX103[0.5] (lab # 175141-004); no target analytes were detected in the sample.

High surrogate recovery was observed for decachlorobiphenyl in BB4EX103[0.5] (lab # 175141-004); no target analytes were detected in the sample.

High surrogate recovery was observed for decachlorobiphenyl in BB4EX105[0.5] (lab # 175141-006); the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample.

High surrogate recovery was observed for TCMX in BB4EX107[0.5] (lab # 175141-010); the corresponding decachlorobiphenyl surrogate recovery was within limits, and no target analytes were detected in the sample.

Low surrogate recovery was observed for TCMX in the MS for batch 95382; the

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PESTICIDES (EPA 8081A)

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

Pesticides (EPA 8081A):

corresponding decachlorobiphenyl surrogate recovery was within limits, and the parent sample was not a project sample.

No other analytical problems were encountered.

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Justine Sutherland
Recorder (Signature Required): [signature]

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	VOCs	SVOCs	HS	Chlorinated Herbicides	TPH d/f/g	Metals					Silica gel clean-up	Hold	Remarks
-1 BB4EX100[0.5]	10-7-04	1303		X						X		X	X	X	X	X	X	X	X					X		Analyze from bottom B.
-2 BB4EX101[0.5]		1323		X						X		X							X							
-3 BB4EX102[0.5]		1335		X						X		X							X							
-4 BB4EX103[0.5]		1355		X						X		X							X							
-5 BB4EX104[0.5]		1244		X						X		X							X							
-6 BB4EX105[0.5]		1340		X						X		X							X							
-7 BB4EX106[0.5]		1255		X						X		X							X							
-8 TB100704A		1400			X					X				X												
-9 DUP100704A		1304		X						X		X	X	X	X	X	X	X	X					X		DUP100704A
-10 BB4EX107[0.5]		1352		X						X		X							X							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-7-04	1410	[signature]	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... YES NO
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO N/A
4. Were custody papers dry and intact when received?..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO
7. Was project identifiable from custody papers?..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Soil cores in plastic bags
2. Did all bottles arrive unbroken?..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?.. YES NO
4. Did bottle labels agree with custody papers?..... YES NO
5. Were appropriate containers used for the tests indicated?..... YES NO
6. Were correct preservatives added to samples?..... YES NO
7. Was sufficient amount of sample sent for tests indicated?..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:
B4. — Sample Dup100704A on C.o.c, Label Dup10060 4A, I.D'd by time.

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III		10/8/10/14
(All samples)					to Level IV		
					(8081, PCB		
					8260, 8270		
					HG, T26/ICP		
					TEHM)		

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX100[0.5]	Batch#:	95382
Lab ID:	175141-001	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/12/04
Basis:	dry	Analyzed:	10/13/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.59
beta-BHC	ND	1.7	0.53
gamma-BHC	ND	1.7	0.59
delta-BHC	ND	1.7	0.62
Heptachlor	ND	1.7	0.53
Aldrin	ND	1.7	0.58
Heptachlor epoxide	ND	1.7	0.65
Endosulfan I	ND	1.7	0.76
Dieldrin	ND	3.3	1.5
4,4'-DDE	ND	3.3	1.5
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.6
Endosulfan sulfate	ND	3.3	1.7
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.6
4,4'-DDT	ND	3.3	1.7
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.72
gamma-Chlordane	ND	1.7	0.72
Methoxychlor	ND	17	9.8
Toxaphene	ND	60	11

Surrogate	%REC	Limits
TCMX	100	65-135
Decachlorobiphenyl	99	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX101[0.5]	Batch#:	95271
Lab ID:	175141-002	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/09/04
Diln Fac:	1.000		

Moisture: 5%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.34
beta-BHC	ND	1.8	0.43
gamma-BHC	ND	1.8	0.38
delta-BHC	ND	1.8	0.35
Heptachlor	ND	1.8	0.51
Aldrin	ND	1.8	0.42
Heptachlor epoxide	ND	1.8	0.53
Endosulfan I	ND	1.8	0.93
Dieldrin	ND	3.4	0.66
4,4'-DDE	ND	3.4	0.56
Endrin	ND	3.4	0.69
Endosulfan II	ND	3.4	0.99
Endosulfan sulfate	ND	3.4	0.81
4,4'-DDD	ND	3.4	0.71
Endrin ketone	ND	3.4	0.85
4,4'-DDT	ND	3.4	1.3
Chlordane (Technical)	ND	31	4.0
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.48
Methoxychlor	ND	18	2.7
Toxaphene	ND	62	13

Surrogate	%REC	Limits
TCMX	111	65-135
Decachlorobiphenyl	126	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX102[0.5]	Batch#:	95271
Lab ID:	175141-003	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/09/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.41
gamma-BHC	ND	1.7	0.36
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.51
Endosulfan I	ND	1.7	0.90
Dieldrin	ND	3.3	0.65
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.97
Endosulfan sulfate	ND	3.3	0.79
4,4'-DDD	ND	3.3	0.69
Endrin ketone	ND	3.3	0.83
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.8
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND	17	2.7
Toxaphene	ND	61	12

Surrogate	%REC	Limits
TCMX	130	65-135
Decachlorobiphenyl	140 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX103[0.5]	Batch#:	95271
Lab ID:	175141-004	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/09/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.41
gamma-BHC	ND	1.7	0.36
delta-BHC	ND	1.7	0.33
Heptachlor	ND	1.7	0.48
Aldrin	ND	1.7	0.40
Heptachlor epoxide	ND	1.7	0.51
Endosulfan I	ND	1.7	0.89
Dieldrin	ND	3.3	0.65
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.96
Endosulfan sulfate	ND	3.3	0.78
4,4'-DDD	ND	3.3	0.68
Endrin ketone	ND	3.3	0.82
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.8
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND	17	2.6
Toxaphene	ND	60	12

Surrogate	%REC	Limits
TCMX	137 *	65-135
Decachlorobiphenyl	143 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX104[0.5]	Batch#:	95271
Lab ID:	175141-005	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/11/04
Diln Fac:	20.00		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	34	10
beta-BHC	ND	34	14
gamma-BHC	ND	34	11
delta-BHC	ND	34	12
Heptachlor	ND	34	13
Aldrin	ND	34	11
Heptachlor epoxide	ND	34	11
Endosulfan I	ND	34	16
Dieldrin	ND	67	26
4,4'-DDE	ND	67	24
Endrin	ND	67	34
Endosulfan II	ND	67	33
Endosulfan sulfate	ND	67	35
4,4'-DDD	ND	67	29
Endrin ketone	ND #	67	26
4,4'-DDT	ND #	67	33
Chlordane (Technical)	ND	610	63
alpha-Chlordane	ND	34	14
gamma-Chlordane	ND	34	14
Methoxychlor	ND	340	160
Toxaphene	ND	1,200	210

Surrogate	%REC	Limits
TCMX	DO	65-135
Decachlorobiphenyl	DO	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX105[0.5]	Batch#:	95271
Lab ID:	175141-006	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/09/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.52
Endosulfan I	ND	1.7	0.91
Dieldrin	ND	3.4	0.66
4,4'-DDE	ND	3.4	0.55
Endrin	ND	3.4	0.69
Endosulfan II	ND	3.4	0.98
Endosulfan sulfate	ND	3.4	0.80
4,4'-DDD	ND	3.4	0.70
Endrin ketone	ND	3.4	0.84
4,4'-DDT	ND	3.4	1.2
Chlordane (Technical)	ND	31	3.9
alpha-Chlordane	ND	1.7	0.52
gamma-Chlordane	ND	1.7	0.48
Methoxychlor	ND	17	2.7
Toxaphene	ND	61	12

Surrogate	%REC	Limits
TCMX	120	65-135
Decachlorobiphenyl	140 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX106[0.5]	Batch#:	95271
Lab ID:	175141-007	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/11/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.52
beta-BHC	ND	1.7	0.71
gamma-BHC	ND	1.7	0.53
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.68
Aldrin	ND	1.7	0.56
Heptachlor epoxide	ND	1.7	0.56
Endosulfan I	ND	1.7	0.78
Dieldrin	ND	3.3	1.3
4,4'-DDE	ND	3.3	1.2
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.6
Endosulfan sulfate	ND	3.3	1.7
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND #	3.3	1.2
4,4'-DDT	ND #	3.3	1.6
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.72
gamma-Chlordane	ND	1.7	0.72
Methoxychlor	ND	17	7.9
Toxaphene	ND	60	11

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	71	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP100704A	Batch#:	95382
Lab ID:	175141-009	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/12/04
Basis:	dry	Analyzed:	10/13/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.59
beta-BHC	ND	1.7	0.53
gamma-BHC	ND	1.7	0.59
delta-BHC	ND	1.7	0.62
Heptachlor	ND	1.7	0.54
Aldrin	ND	1.7	0.58
Heptachlor epoxide	ND	1.7	0.65
Endosulfan I	ND	1.7	0.76
Dieldrin	ND	3.3	1.5
4,4'-DDE	ND	3.3	1.5
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.6
Endosulfan sulfate	ND	3.3	1.7
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.6
4,4'-DDT	ND	3.3	1.7
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.72
gamma-Chlordane	ND	1.7	0.72
Methoxychlor	ND	17	9.8
Toxaphene	ND	60	11

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	90	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB4EX107[0.5]	Batch#:	95271
Lab ID:	175141-010	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/11/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.53
beta-BHC	ND	1.7	0.73
gamma-BHC	ND	1.7	0.54
delta-BHC	ND	1.7	0.62
Heptachlor	ND	1.7	0.69
Aldrin	ND	1.7	0.57
Heptachlor epoxide	ND	1.7	0.57
Endosulfan I	ND	1.7	0.80
Dieldrin	ND	3.4	1.3
4,4'-DDE	ND	3.4	1.2
Endrin	ND	3.4	1.7
Endosulfan II	ND	3.4	1.6
Endosulfan sulfate	ND	3.4	1.7
4,4'-DDD	ND	3.4	1.4
Endrin ketone	ND #	3.4	1.3
4,4'-DDT	ND #	3.4	1.6
Chlordane (Technical)	ND	31	3.1
alpha-Chlordane	ND	1.7	0.73
gamma-Chlordane	ND	1.7	0.74
Methoxychlor	ND	17	8.1
Toxaphene	ND	61	11

Surrogate	%REC	Limits
TCMX	143 *	65-135
Decachlorobiphenyl	116	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267272	Batch#:	95271
Matrix:	Soil	Prepared:	10/07/04
Units:	ug/Kg	Analyzed:	10/10/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.52
beta-BHC	ND	1.7	0.72
gamma-BHC	ND	1.7	0.54
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.68
Aldrin	ND	1.7	0.56
Heptachlor epoxide	ND	1.7	0.56
Endosulfan I	ND	1.7	0.79
Dieldrin	ND	3.3	1.3
4,4'-DDE	ND	3.3	1.2
Endrin	ND	3.3	1.7
Endosulfan II	ND	3.3	1.3
Endosulfan sulfate	ND	3.3	1.3
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.3
4,4'-DDT	ND	3.3	1.6
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.65
gamma-Chlordane	ND	1.7	0.57
Methoxychlor	ND	17	8.0
Toxaphene	ND	61	11

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267744	Batch#:	95382
Matrix:	Soil	Prepared:	10/12/04
Units:	ug/Kg	Analyzed:	10/13/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.58
beta-BHC	ND	1.7	0.52
gamma-BHC	ND	1.7	0.58
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.53
Aldrin	ND	1.7	0.57
Heptachlor epoxide	ND	1.7	0.64
Endosulfan I	ND	1.7	0.75
Dieldrin	ND	3.3	1.5
4,4'-DDE	ND	3.3	1.5
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.6
Endosulfan sulfate	ND	3.3	1.7
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.6
4,4'-DDT	ND	3.3	1.7
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.71
gamma-Chlordane	ND	1.7	0.71
Methoxychlor	ND	17	9.7
Toxaphene	ND	59	11

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC267273	Batch#:	95271
Matrix:	Soil	Prepared:	10/07/04
Units:	ug/Kg	Analyzed:	10/09/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.51	10.73	65	65-135
Heptachlor	16.51	12.93	78	65-135
Aldrin	16.51	11.13	67	65-135
Dieldrin	16.51	11.71	71	65-135
Endrin	16.51	12.35	75	65-135
4,4'-DDT	16.51	11.15	67	65-135

Surrogate	%REC	Limits
TCMX	72	65-135
Decachlorobiphenyl	87	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC267745	Batch#:	95382
Matrix:	Soil	Prepared:	10/12/04
Units:	ug/Kg	Analyzed:	10/13/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.43	11.93	73	65-135
Heptachlor	16.43	12.87	78	65-135
Aldrin	16.43	12.33	75	65-135
Dieldrin	16.43	12.34	75	65-135
Endrin	16.43	12.39	75	65-135
4,4'-DDT	16.43	12.41	76	65-135

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	94	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	95271
MSS Lab ID:	174988-006	Sampled:	09/28/04
Matrix:	Soil	Received:	09/29/04
Units:	ug/Kg	Prepared:	10/07/04
Basis:	dry	Analyzed:	10/12/04
Diln Fac:	1.000		

Type: MS Moisture: 49%
Lab ID: QC267274 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<1.039	32.36	23.57	73	65-135
Heptachlor	<1.314	32.36	23.19	72	65-135
Aldrin	<1.098	32.36	22.46	69	65-135
Dieldrin	<2.549	32.36	23.87	74	65-135
Endrin	<3.333	32.36	25.17	78	65-135
4,4'-DDT	<3.137	32.36	19.01	59 *	65-135

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	76	65-135

Type: MSD Moisture: 49%
Lab ID: QC267275 Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	32.79	23.02	70	65-135	4	35
Heptachlor	32.79	23.15	71	65-135	2	35
Aldrin	32.79	22.23	68	65-135	2	35
Dieldrin	32.79	23.41	71	65-135	3	35
Endrin	32.79	24.78	76	65-135	3	35
4,4'-DDT	32.79	21.08	64 *	65-135	9	35

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	87	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	95382
MSS Lab ID:	175066-003	Sampled:	10/04/04
Matrix:	Soil	Received:	10/04/04
Units:	ug/Kg	Prepared:	10/12/04
Basis:	dry	Analyzed:	10/14/04
Diln Fac:	1.000		

Type: MS Moisture: 79%
Lab ID: QC267746 Cleanup Method: EPA 3640A

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<2.810	80.06	54.05	68	65-135
Heptachlor	<2.524	80.06	53.61	67	65-135
Aldrin	<2.762	80.06	54.82	68	65-135
Dieldrin	<7.143	80.06	57.45	72	65-135
Endrin	<7.619	80.06	60.05	75	65-135
4,4'-DDT	<8.095	80.06	56.10	70	65-135

Surrogate	%REC	Limits
TCMX	62 *	65-135
Decachlorobiphenyl	87	65-135

Type: MSD Moisture: 79%
Lab ID: QC267747 Cleanup Method: EPA 3640A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	78.22	64.29	82	65-135	20	35
Heptachlor	78.22	69.85	89	65-135	29	35
Aldrin	78.22	64.16	82	65-135	18	35
Dieldrin	78.22	67.46	86	65-135	18	35
Endrin	78.22	70.08	90	65-135	18	35
4,4'-DDT	78.22	66.88	86	65-135	20	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	103	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234402633001 Name: 8081 Type: (normal) Date: 05-OCT-2004 23:14 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	279_016	234402633016	pest_1	05-OCT-2004 23:14	04WS1628
2	279_017	234402633017	pest_2	05-OCT-2004 23:45	04WS1629
3	279_018	234402633018	pest_3	06-OCT-2004 00:15	04WS1630
4	279_019	234402633019	pest_4	06-OCT-2004 00:45	04WS1632
5	279_020	234402633020	pest_5	06-OCT-2004 01:15	04WS1633
6	279_021	234402633021	pest_6	06-OCT-2004 01:45	04WS1634
7	279_022	234402633022	pest_7	06-OCT-2004 02:16	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	6499.4	7202.9	7231.6	8963.2	10009	11704	11710	AVRG	R		1.106E-4		pg	9045.7	24	0.995	20	rsd ***
gamma-BHC	A	6665.7	7392.6	7293.8	8780.7	9662.7	11031	10683	AVRG	R		1.138E-4		pg	8787.2	20	0.995	20	
beta-BHC	A	5153.8	4973.5	4389.2	4778.8	5062.3	5551.5	5197.8	AVRG	R		1.994E-4		pg	5015.3	7	0.995	20	
delta-BHC	A	7111.0	7077.9	6567.6	7979.9	8823.3	10654	10245	AVRG	R		1.197E-4		pg	8351.3	19	0.995	20	
Heptachlor	A	7533.5	7954.3	7269.5	7971.5	8592.0	9322.9	8607.0	AVRG	R		1.223E-4		pg	8178.7	9	0.995	20	
Aldrin	A	7540.2	7842.3	7229.4	8090.7	8735.9	9766.9	9101.6	AVRG	R		1.201E-4		pg	8329.6	11	0.995	20	
Heptachlor epoxide	A	9035.7	9110.8	8127.9	8579.5	8925.5	9450.2	8306.1	AVRG	R		1.138E-4		pg	8790.8	5	0.995	20	
gamma-Chlordane	A	8993.3	9107.1	8150.5	8768.4	9232.2	10138	9117.7	AVRG	R		1.102E-4		pg	9072.4	7	0.995	20	
alpha-Chlordane	A	9033.2	9224.5	8275.4	8852.8	9266.9	10042	8946.2	AVRG	R		1.100E-4		pg	9091.5	6	0.995	20	
4,4'-DDE	A	6910.3	7564.3	7030.2	7884.8	8337.6	9071.5	7892.8	AVRG	R		1.280E-4		pg	7813.1	10	0.995	20	
Endosulfan I	A	9481.1	9608.2	8628.3	9140.5	9404.5	10447	9237.5	AVRG	R		1.061E-4		pg	9421.0	6	0.995	20	
Dieldrin	A	7789.0	8374.1	7679.4	8277.7	8570.2	9039.0	7766.2	AVRG	R		1.217E-4		pg	8213.7	6	0.995	20	
Endrin	A	6795.9	7261.5	6494.9	7010.7	7281.5	7696.4	6513.1	AVRG	R		1.427E-4		pg	7007.7	6	0.995	20	
4,4'-DDD	A	5086.7	5471.2	5086.8	5941.8	6166.9	6980.8	6111.3	AVRG	R		1.714E-4		pg	5835.1	12	0.995	20	
Endosulfan II	A	7930.7	8276.0	7359.9	7744.1	7934.6	8312.6	7058.1	AVRG	R		1.282E-4		pg	7802.3	6	0.995	20	
4,4'-DDT	A	2621.9	3385.7	3448.4	4510.2	5023.8	6283.8	5805.2	AVRG	R		2.252E-4		pg	4439.8	31	0.995	20	rsd ***
Methoxychlor	A	2264.8	2547.8	2251.0	2284.6	2322.8	2417.2	2088.6	AVRG	R		4.327E-4		pg	2311.0	6	0.995	20	
Endosulfan sulfate	A	7927.1	7681.7	6722.6	6887.1	7019.4	7282.0	6172.6	AVRG	R		1.409E-4		pg	7098.9	8	0.995	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234402633001 Name: 8081 Type: (normal) Date: 05-OCT-2004 23:14 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	7565.8	8094.4	7454.8	7861.7	7997.9	8272.2	6989.0	AVRG	R		1.291E-4		pg	7748.0	6	0.995	20	
TCMX	A	8204.2	8515.7	7918.7	8145.1	8532.0	8634.4	8150.6	AVRG	R		1.205E-4		pg	8300.1	3	0.995	20	
Decachlorobiphenyl	A	10154	9678.0	8147.9	7582.8	7594.9	7423.2	6223.9	AVRG	R		1.232E-4		pg	8115.0	17	0.995	20	
alpha-BHC	B	33792	36134	33861	35802	37992	39576	36059	AVRG	R		2.764E-5		pg	36174	6	0.995	20	
gamma-BHC	B	33009	34347	31250	32694	34214	35511	32658	AVRG	R		2.996E-5		pg	33383	4	0.995	20	
beta-BHC	B	23482	20756	17189	16666	16980	16966	15158	AVRG	R		5.503E-5		pg	18171	16	0.995	20	
delta-BHC	B	38695	36412	31723	33305	34597	36401	32149	AVRG	R		2.877E-5		pg	34755	7	0.995	20	
Heptachlor	B	23821	23529	20480	21151	22260	23189	21275	AVRG	R		4.496E-5		pg	22243	6	0.995	20	
Aldrin	B	32953	33350	29675	30372	31603	32404	28934	AVRG	R		3.192E-5		pg	31327	5	0.995	20	
Heptachlor epoxide	B	35189	34040	28802	28093	28452	28469	24534	AVRG	R		3.372E-5		pg	29654	12	0.995	20	
gamma-Chlordane	B	36651	35380	30338	30396	31192	32459	28632	AVRG	R		3.110E-5		pg	32150	9	0.995	20	
alpha-Chlordane	B	36552	35386	30105	29847	30187	31488	27772	AVRG	R		3.163E-5		pg	31620	10	0.995	20	
4,4'-DDE	B	27976	29947	26330	27071	27740	28515	18732	AVRG	R		3.757E-5		pg	26616	14	0.995	20	
Endosulfan I	B	33016	31989	27140	26828	27197	27497	23518	AVRG	R		3.550E-5		pg	28169	12	0.995	20	
Dieldrin	B	31198	31434	27173	26938	27276	27468	18909	AVRG	R		3.677E-5		pg	27199	15	0.995	20	
Endrin	B	25952	26063	21955	21936	22341	22952	17519	AVRG	R		4.410E-5		pg	22674	13	0.995	20	
4,4'-DDD	B	19831	21349	18495	18823	19116	20131	15981	AVRG	R		5.235E-5		pg	19104	9	0.995	20	
Endosulfan II	B	31093	29508	24394	23142	23227	23376	17645	AVRG	R		4.061E-5		pg	24627	18	0.995	20	
4,4'-DDT	B	12625	14007	12719	14139	14944	17175	14819	AVRG	R		6.970E-5		pg	14347	11	0.995	20	
Methoxychlor	B	6997.2	6803.9	5688.1	5741.0	5854.2	6023.2		AVRG	R		1.617E-4		pg	6184.6	9	0.995	20	
Endosulfan sulfate	B	29253	26435	21484	20696	20769	20940	16696	AVRG	R		4.479E-5		pg	22325	19	0.995	20	
Endrin ketone	B	28313	27081	22718	22271	22293	22654	17693	AVRG	R		4.294E-5		pg	23289	15	0.995	20	
TCMX	B	30444	28948	25189	24308	25110	24471	21825	AVRG	R		3.883E-5		pg	25756	11	0.995	20	
Decachlorobiphenyl	B	24743	21933	17967	16695	16644	16833	14658	AVRG	R		5.407E-5		pg	18496	19	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	11	20	
EPA 8081A	B	22	12	20	

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Calname : 8081
Calnum : 234402633001 Caldate : 05-OCT-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	234402633024	06-OCT-2004	25.000	27.767	pg	11	15
gamma-BHC	A	234402633024	06-OCT-2004	25.000	28.027	pg	12	15
beta-BHC	A	234402633024	06-OCT-2004	25.000	25.493	pg	2	15
delta-BHC	A	234402633024	06-OCT-2004	25.000	27.455	pg	10	15
Heptachlor	A	234402633024	06-OCT-2004	25.000	27.568	pg	10	15
Aldrin	A	234402633024	06-OCT-2004	25.000	27.382	pg	10	15
Heptachlor epoxide	A	234402633024	06-OCT-2004	25.000	25.807	pg	3	15
gamma-Chlordane	A	234402633024	06-OCT-2004	25.000	25.768	pg	3	15
alpha-Chlordane	A	234402633024	06-OCT-2004	25.000	26.327	pg	5	15
4,4'-DDE	A	234402633024	06-OCT-2004	25.000	24.789	pg	-1	15
Endosulfan I	A	234402633024	06-OCT-2004	25.000	25.533	pg	2	15
Dieldrin	A	234402633024	06-OCT-2004	25.000	25.921	pg	4	15
Endrin	A	234402633024	06-OCT-2004	25.000	26.184	pg	5	15
4,4'-DDD	A	234402633024	06-OCT-2004	25.000	24.256	pg	-3	15
Endosulfan II	A	234402633024	06-OCT-2004	25.000	26.058	pg	4	15
4,4'-DDT	A	234402633024	06-OCT-2004	25.000	26.280	pg	5	15
Methoxychlor	A	234402633024	06-OCT-2004	25.000	26.793	pg	7	15
Endosulfan sulfate	A	234402633024	06-OCT-2004	25.000	25.836	pg	3	15
Endrin ketone	A	234402633024	06-OCT-2004	25.000	25.613	pg	2	15
TCMX	A	234402633024	06-OCT-2004	25.000	27.914	pg	12	15
Decachlorobiphenyl	A	234402633024	06-OCT-2004	25.000	24.307	pg	-3	15
alpha-BHC	B	234402633024	06-OCT-2004	25.000	26.303	pg	5	15
gamma-BHC	B	234402633024	06-OCT-2004	25.000	26.173	pg	5	15
beta-BHC	B	234402633024	06-OCT-2004	25.000	23.708	pg	-5	15
delta-BHC	B	234402633024	06-OCT-2004	25.000	25.755	pg	3	15
Heptachlor	B	234402633024	06-OCT-2004	25.000	26.235	pg	5	15
Aldrin	B	234402633024	06-OCT-2004	25.000	26.199	pg	5	15
Heptachlor epoxide	B	234402633024	06-OCT-2004	25.000	24.635	pg	-1	15
gamma-Chlordane	B	234402633024	06-OCT-2004	25.000	24.519	pg	-2	15
alpha-Chlordane	B	234402633024	06-OCT-2004	25.000	24.836	pg	-1	15
4,4'-DDE	B	234402633024	06-OCT-2004	25.000	27.009	pg	8	15
Endosulfan I	B	234402633024	06-OCT-2004	25.000	25.190	pg	1	15
Dieldrin	B	234402633024	06-OCT-2004	25.000	26.682	pg	7	15
Endrin	B	234402633024	06-OCT-2004	25.000	26.374	pg	5	15
4,4'-DDD	B	234402633024	06-OCT-2004	25.000	25.282	pg	1	15
Endosulfan II	B	234402633024	06-OCT-2004	25.000	25.811	pg	3	15
4,4'-DDT	B	234402633024	06-OCT-2004	25.000	26.717	pg	7	15
Methoxychlor	B	234402633024	06-OCT-2004	25.000	28.650	pg	15	15
Endosulfan sulfate	B	234402633024	06-OCT-2004	25.000	25.570	pg	2	15
Endrin ketone	B	234402633024	06-OCT-2004	25.000	25.417	pg	2	15
TCMX	B	234402633024	06-OCT-2004	25.000	27.668	pg	11	15
Decachlorobiphenyl	B	234402633024	06-OCT-2004	25.000	23.215	pg	-7	15

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	5	15	
EPA 8081A	B	22	5	15	

INITIAL CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: RH
Calnum: 804386835001 Name: Type: (normal) Date: 24-SEP-2004 19:42 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	268_011	804386835011	level_1	24-SEP-2004 19:42	04WS1628
2	268_012	804386835012	level_2	24-SEP-2004 20:12	04WS1629
3	268_013	804386835013	level_3	24-SEP-2004 20:41	04WS1630
4	268_014	804386835014	level_4	24-SEP-2004 21:11	04WS1632
5	268_015	804386835015	level_5	24-SEP-2004 21:40	04WS1633
6	268_016	804386835016	level_6	24-SEP-2004 22:10	04WS1634
7	268_017	804386835017	level_7	24-SEP-2004 22:39	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	15271	14674	14146	14031	14024	14239	15323	AVRG	R		6.882E-5		pg	14530	4	0.995	20	
gamma-BHC	A	13968	13437	12814	12662	12584	12658	13707	AVRG	R		7.623E-5		pg	13119	4	0.995	20	
beta-BHC	A	6295.5	6009.2	5633.5	5467.7	5375.7	5099.2	5131.8	AVRG	R		1.794E-4		pg	5573.2	8	0.995	20	
delta-BHC	A	13984	13485	12651	12583	12597	12791	13803	AVRG	R		7.618E-5		pg	13128	5	0.995	20	
Heptachlor	A	10742	11032	10349	10348	10444	10593	11807	AVRG	R		9.294E-5		pg	10759	5	0.995	20	
Aldrin	A	13142	12677	11845	11568	11496	11552	12450	AVRG	R		8.262E-5		pg	12104	5	0.995	20	
Heptachlor epoxide	A	12568	11976	11087	10729	10683	10604	11318	AVRG	R		8.865E-5		pg	11281	7	0.995	20	
gamma-Chlordane	A	12367	11938	11066	10810	10861	10866	11817	AVRG	R		8.780E-5		pg	11389	6	0.995	20	
alpha-Chlordane	A	12233	11708	10649	10454	10450	10435	11269	AVRG	R		9.068E-5		pg	11028	7	0.995	20	
4,4'-DDE	A	11534	11199	10298	10508	10721	11282	10824	AVRG	R		9.166E-5		pg	10910	4	0.995	20	
Endosulfan I	A	11639	11081	10134	9933.7	9845.1	9679.3	10366	AVRG	R		9.632E-5		pg	10383	7	0.995	20	
Dieldrin	A	12128	11811	10813	10946	11049	11465	10838	AVRG	R		8.855E-5		pg	11293	5	0.995	20	
Endrin	A	9399.2	9177.9	8197.9	8328.7	8462.9	8829.2	8752.8	AVRG	R		1.145E-4		pg	8735.5	5	0.995	20	
4,4'-DDD	A	10252	9861.5	9102.3	8961.9	9145.6	9522.0	9266.8	AVRG	R		1.059E-4		pg	9444.6	5	0.995	20	
Endosulfan II	A	10850	10344	9281.4	9250.5	9375.4	9711.9	9437.1	AVRG	R		1.026E-4		pg	9750.1	6	0.995	20	
4,4'-DDT	A	7468.4	7650.7	6659.9	7371.2	7563.7	8268.3	8602.3	AVRG	R		1.306E-4		pg	7654.9	8	0.995	20	
Methoxychlor	A	3536.6	3543.0	3013.6	3484.3	3686.5	3476.4	2916.8	AVRG	R		2.959E-4		pg	3379.6	9	0.995	20	
Endosulfan sulfate	A	9547.0	9205.5	8130.8	8096.4	8234.5	8448.2	8646.6	AVRG	R		1.161E-4		pg	8615.6	7	0.995	20	
Endrin ketone	A	11591	11170	9943.1	10028	10237	10521	9903.6	AVRG	R		9.538E-5		pg	10485	6	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: RH
Calnum: 804386835001 Name: Type: (normal) Date: 24-SEP-2004 19:42 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
TCMX	A	10469	9815.3	9247.1	8921.1	8936.6	8937.5	9317.2	AVRG	R		1.066E-4		pg	9377.7	6	0.995	20	
Decachlorobiphenyl	A	7331.3	7035.5	5833.5	6201.0	6384.4	6706.6	7004.4	AVRG	R		1.505E-4		pg	6642.4	8	0.995	20	
alpha-BHC	B	15012	15067	13950	14313	13608	14155	14061	AVRG	R		6.988E-5		pg	14309	4	0.995	20	
gamma-BHC	B	13836	13808	12694	12838	12237	12591	12564	AVRG	R		7.729E-5		pg	12938	5	0.995	20	
beta-BHC	B	6696.0	6470.9	5799.4	5717.1	5408.1	5362.5	5080.4	AVRG	R		1.727E-4		pg	5790.6	10	0.995	20	
delta-BHC	B	13963	13896	12597	12790	12229	12703	12577	AVRG	R		7.713E-5		pg	12965	5	0.995	20	
Heptachlor	B	8035.2	8598.2	8248.4	8692.0	8346.5	8906.9	9105.9	AVRG	R		1.168E-4		pg	8561.9	4	0.995	20	
Aldrin	B	13084	13242	11958	12044	11433	11735	11620	AVRG	R		8.224E-5		pg	12159	6	0.995	20	
Heptachlor epoxide	B	12392	12377	11040	10640	10483	10566	10395	AVRG	R		8.987E-5		pg	11128	8	0.995	20	
gamma-Chlordane	B	12618	12628	11285	11303	10822	11120	11030	AVRG	R		8.663E-5		pg	11544	7	0.995	20	
alpha-Chlordane	B	12459	12279	10866	10856	10320	10615	10503	AVRG	R		8.986E-5		pg	11128	8	0.995	20	
4,4'-DDE	B	11817	11948	10605	10897	10456	11040	9844.3	AVRG	R		9.137E-5		pg	10944	7	0.995	20	
Endosulfan I	B	11671	11551	10233	10201	9728.8	9892.4	9709.0	AVRG	R		9.591E-5		pg	10427	8	0.995	20	
Dieldrin	B	12228	12294	10872	11050	10558	11045	9670.7	AVRG	R		9.007E-5		pg	11102	8	0.995	20	
Endrin	B	8835.8	8960.5	7844.1	8129.4	7682.1	8222.9	7492.0	AVRG	R		1.224E-4		pg	8166.7	7	0.995	20	
4,4'-DDD	B	10150	10192	8973.2	9022.6	8660.5	9106.6	8158.2	AVRG	R		1.089E-4		pg	9180.4	8	0.995	20	
Endosulfan II	B	10942	10795	9392.5	9414.3	8996.9	9503.5	8394.8	AVRG	R		1.038E-4		pg	9634.2	10	0.995	20	
4,4'-DDT	B	6465.8	6706.4	5963.5	6586.2	6283.8	7438.4	6943.3	AVRG	R		1.509E-4		pg	6626.8	7	0.995	20	
Methoxychlor	B	3409.5	3358.6	2911.6	3139.3	2992.8	3121.4	2493.3	AVRG	R		3.267E-4		pg	3060.9	10	0.995	20	
Endosulfan sulfate	B	9945.8	9718.8	8273.6	8415.6	7972.1	8712.2	7943.8	AVRG	R		1.148E-4		pg	8711.7	9	0.995	20	
Endrin ketone	B	12188	11819	10060	10027	9557.8	10130	8577.2	AVRG	R		9.674E-5		pg	10337	12	0.995	20	
TCMX	B	10356	10190	9230.0	9250.7	8805.2	9055.8	8629.3	AVRG	R		1.068E-4		pg	9359.5	7	0.995	20	
Decachlorobiphenyl	B	7700.1	6946.7	5834.8	5688.5	5402.1	6005.4	5141.2	AVRG	R		1.639E-4		pg	6102.7	15	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	6		20	
EPA 8081A	B	22	8		20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
alpha-BHC	A	804386835020	25-SEP-2004	25.000	24.968	pg	0	15	
gamma-BHC	A	804386835020	25-SEP-2004	25.000	25.254	pg	1	15	
beta-BHC	A	804386835020	25-SEP-2004	25.000	24.997	pg	0	15	
delta-BHC	A	804386835020	25-SEP-2004	25.000	25.847	pg	3	15	
Heptachlor	A	804386835020	25-SEP-2004	25.000	26.362	pg	5	15	
Aldrin	A	804386835020	25-SEP-2004	25.000	25.689	pg	3	15	
Heptachlor epoxide	A	804386835020	25-SEP-2004	25.000	24.926	pg	0	15	
gamma-Chlordane	A	804386835020	25-SEP-2004	25.000	24.767	pg	-1	15	
alpha-Chlordane	A	804386835020	25-SEP-2004	25.000	25.110	pg	0	15	
4,4'-DDE	A	804386835020	25-SEP-2004	25.000	25.483	pg	2	15	
Endosulfan I	A	804386835020	25-SEP-2004	25.000	25.514	pg	2	15	
Dieldrin	A	804386835020	25-SEP-2004	25.000	25.815	pg	3	15	
Endrin	A	804386835020	25-SEP-2004	25.000	26.147	pg	5	15	
4,4'-DDD	A	804386835020	25-SEP-2004	25.000	24.774	pg	-1	15	
Endosulfan II	A	804386835020	25-SEP-2004	25.000	25.903	pg	4	15	
4,4'-DDT	A	804386835020	25-SEP-2004	25.000	28.834	pg	15	15	
Methoxychlor	A	804386835020	25-SEP-2004	25.000	32.350	pg	29	15	v+ ***
Endosulfan sulfate	A	804386835020	25-SEP-2004	25.000	25.946	pg	4	15	
Endrin ketone	A	804386835020	25-SEP-2004	25.000	25.447	pg	2	15	
TCMX	A	804386835020	25-SEP-2004	25.000	27.366	pg	9	15	
Decachlorobiphenyl	A	804386835020	25-SEP-2004	25.000	24.671	pg	-1	15	
alpha-BHC	B	804386835020	25-SEP-2004	25.000	23.748	pg	-5	15	
gamma-BHC	B	804386835020	25-SEP-2004	25.000	23.941	pg	-4	15	
beta-BHC	B	804386835020	25-SEP-2004	25.000	23.357	pg	-7	15	
delta-BHC	B	804386835020	25-SEP-2004	25.000	24.562	pg	-2	15	
Heptachlor	B	804386835020	25-SEP-2004	25.000	25.199	pg	1	15	
Aldrin	B	804386835020	25-SEP-2004	25.000	24.498	pg	-2	15	
Heptachlor epoxide	B	804386835020	25-SEP-2004	25.000	23.866	pg	-5	15	
gamma-Chlordane	B	804386835020	25-SEP-2004	25.000	23.533	pg	-6	15	
alpha-Chlordane	B	804386835020	25-SEP-2004	25.000	24.033	pg	-4	15	
4,4'-DDE	B	804386835020	25-SEP-2004	25.000	24.646	pg	-1	15	
Endosulfan I	B	804386835020	25-SEP-2004	25.000	24.408	pg	-2	15	
Dieldrin	B	804386835020	25-SEP-2004	25.000	24.721	pg	-1	15	
Endrin	B	804386835020	25-SEP-2004	25.000	25.045	pg	0	15	
4,4'-DDD	B	804386835020	25-SEP-2004	25.000	24.404	pg	-2	15	
Endosulfan II	B	804386835020	25-SEP-2004	25.000	24.731	pg	-1	15	
4,4'-DDT	B	804386835020	25-SEP-2004	25.000	25.297	pg	1	15	
Methoxychlor	B	804386835020	25-SEP-2004	25.000	28.578	pg	14	15	
Endosulfan sulfate	B	804386835020	25-SEP-2004	25.000	23.947	pg	-4	15	
Endrin ketone	B	804386835020	25-SEP-2004	25.000	24.014	pg	-4	15	
TCMX	B	804386835020	25-SEP-2004	25.000	26.302	pg	5	15	
Decachlorobiphenyl	B	804386835020	25-SEP-2004	25.000	22.473	pg	-10	15	

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	4	15	
EPA 8081A	B	22	4	15	

+=high bias v=ICV
Page 1 of 1

INITIAL CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804412857001 Name: Type: (normal) Date: 12-OCT-2004 23:34 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	286_021	804412857021	pest_1	12-OCT-2004 23:34	04WS1628
2	286_022	804412857022	pest_2	13-OCT-2004 00:04	04WS1629
3	286_023	804412857023	pest_3	13-OCT-2004 00:34	04WS1630
4	286_024	804412857024	pest_4	13-OCT-2004 01:04	04WS1632
5	286_025	804412857025	pest_5	13-OCT-2004 01:35	04WS1633
6	286_026	804412857026	pest_6	13-OCT-2004 02:05	04WS1634
7	286_027	804412857027	pest_7	13-OCT-2004 02:36	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	14720	13563	13625	15166	14787	14035	14073	AVRG	R		7.002E-5		pg	14281	4	0.995	20	
gamma-BHC	A	13916	12464	12356	13658	13324	12495	12615	AVRG	R		7.707E-5		pg	12975	5	0.995	20	
beta-BHC	A	6529.0	5549.2	5568.1	5949.7	5684.9	5054.7	4752.6	AVRG	R		1.791E-4		pg	5584.0	10	0.995	20	
delta-BHC	A	13802	12309	12319	13730	13186	12503	12691	AVRG	R		7.731E-5		pg	12934	5	0.995	20	
Heptachlor	A	11935	10550	10782	11996	11618	11025	11140	AVRG	R		8.856E-5		pg	11292	5	0.995	20	
Aldrin	A	12955	11317	11281	12486	12002	11340	11343	AVRG	R		8.462E-5		pg	11818	6	0.995	20	
Heptachlor epoxide	A	12332	10564	10610	11624	10991	10378	10292	AVRG	R		9.116E-5		pg	10970	7	0.995	20	
gamma-Chlordane	A	12425	10636	10529	11687	11087	10639	10607	AVRG	R		9.019E-5		pg	11087	6	0.995	20	
alpha-Chlordane	A	11925	10216	10204	11307	10709	10165	10185	AVRG	R		9.369E-5		pg	10673	7	0.995	20	
4,4'-DDE	A	11150	9724.5	9836.4	11385	10961	11019	9681.7	AVRG	R		9.491E-5		pg	10537	7	0.995	20	
Endosulfan I	A	11324	9770.2	9811.1	10753	10224	9586.0	9428.3	AVRG	R		9.874E-5		pg	10128	7	0.995	20	
Dieldrin	A	11841	10197	10357	11756	11217	11191	9734.4	AVRG	R		9.175E-5		pg	10899	7	0.995	20	
Endrin	A	9598.8	8051.0	8001.1	9541.5	8975.3	8525.0	7769.9	AVRG	R		1.158E-4		pg	8637.5	9	0.995	20	
4,4'-DDD	A	9508.2	8109.0	8169.8	9266.6	8830.1	8880.3	8017.4	AVRG	R		1.152E-4		pg	8683.1	7	0.995	20	
Endosulfan II	A	10455	8798.1	8891.9	9943.4	9323.9	9412.5	8373.1	AVRG	R		1.074E-4		pg	9314.0	8	0.995	20	
4,4'-DDT	A	8813.4	7403.1	7739.5	9010.4	8591.1	8863.2	8049.8	AVRG	R		1.197E-4		pg	8352.9	7	0.995	20	
Methoxychlor	A	4170.2	3393.0	3505.7	4367.9	4065.0	3518.5	2753.1	AVRG	R		2.716E-4		pg	3681.9	15	0.995	20	
Endosulfan sulfate	A	9613.8	7847.6	7915.0	8784.2	8231.9	8167.9	7638.0	AVRG	R		1.203E-4		pg	8314.1	8	0.995	20	
Endrin ketone	A	11997	9764.7	9892.4	10910	10312	10344	8976.6	AVRG	R		9.696E-5		pg	10314	9	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804412857001 Name: Type: (normal) Date: 12-OCT-2004 23:34 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
TCMX	A	10240	9211.9	8940.9	9634.0	8651.1	8989.7	8670.6	AVRG	R		1.088E-4		pg	9191.2	6	0.995	20	
Decachlorobiphenyl	A	7533.3	6091.4	6177.9	6801.4	6479.1	6392.9	5955.1	AVRG	R		1.541E-4		pg	6490.2	8	0.995	20	
alpha-BHC	B	10081	10148	10377	10331	9891.1	9894.0	10569	AVRG	R		9.819E-5		pg	10184	2	0.995	20	
gamma-BHC	B	9268.5	9281.0	9394.3	9388.0	8841.5	8857.6	9405.3	AVRG	R		1.086E-4		pg	9205.2	3	0.995	20	
beta-BHC	B	4457.0	4297.6	4250.4	4158.4	3839.9	3734.7	3746.0	AVRG	R		2.458E-4		pg	4069.1	7	0.995	20	
delta-BHC	B	8988.5	9071.1	9212.2	9283.4	8618.4	8757.1	9411.7	AVRG	R		1.105E-4		pg	9048.9	3	0.995	20	
Heptachlor	B	5956.0	6220.2	6459.3	6521.6	6059.8	6286.1	6673.7	AVRG	R		1.585E-4		pg	6311.0	4	0.995	20	
Aldrin	B	8765.6	8753.4	8855.5	8936.4	8179.0	8274.6	8736.0	AVRG	R		1.157E-4		pg	8642.9	3	0.995	20	
Heptachlor epoxide	B	8247.5	8260.3	8273.2	8355.3	7474.1	7526.6	7804.4	AVRG	R		1.251E-4		pg	7991.6	5	0.995	20	
gamma-Chlordane	B	8386.5	8394.9	8378.1	8560.1	7600.1	7818.8	8301.9	AVRG	R		1.219E-4		pg	8205.8	4	0.995	20	
alpha-Chlordane	B	8262.0	8224.7	8172.2	8325.1	7369.3	7535.1	7926.1	AVRG	R		1.254E-4		pg	7973.5	5	0.995	20	
4,4'-DDE	B	7872.3	8063.6	8127.0	8381.0	7406.0	7946.5	7635.7	AVRG	R		1.263E-4		pg	7918.8	4	0.995	20	
Endosulfan I	B	7725.3	7786.1	7762.1	7867.7	7005.0	7087.2	7370.8	AVRG	R		1.331E-4		pg	7514.9	5	0.995	20	
Dieldrin	B	8289.5	8316.9	8382.3	8566.1	7564.5	7950.7	7597.4	AVRG	R		1.235E-4		pg	8095.3	5	0.995	20	
Endrin	B	6651.3	6736.4	6756.8	6958.8	6107.2	6119.3	6225.6	AVRG	R		1.537E-4		pg	6507.9	5	0.995	20	
4,4'-DDD	B	6595.6	6689.8	6642.6	6833.2	5891.9	6250.9	6253.4	AVRG	R		1.550E-4		pg	6451.1	5	0.995	20	
Endosulfan II	B	7405.0	7423.5	7258.9	7378.9	6398.4	6664.7	6585.2	AVRG	R		1.425E-4		pg	7016.4	6	0.995	20	
4,4'-DDT	B	5199.1	5522.7	5594.8	5803.1	4987.4	5454.0	5820.7	AVRG	R		1.824E-4		pg	5483.1	6	0.995	20	
Methoxychlor	B	2682.6	2757.8	2705.8	2703.4	2279.3	2413.8	2160.3	AVRG	R		3.954E-4		pg	2529.0	10	0.995	20	
Endosulfan sulfate	B	6725.5	6657.1	6398.5	6521.0	5625.1	5898.0	6143.3	AVRG	R		1.592E-4		pg	6281.2	7	0.995	20	
Endrin ketone	B	8190.5	8176.5	7852.3	7747.1	6588.6	7015.2	6886.1	AVRG	R		1.334E-4		pg	7493.8	9	0.995	20	
TCMX	B	7236.4	7088.4	7046.6	6825.1	6538.3	6418.1	6649.0	AVRG	R		1.464E-4		pg	6828.8	4	0.995	20	
Decachlorobiphenyl	B	5393.1	5385.9	5050.0	4653.9	3871.9	4271.0	4447.2	AVRG	R		2.117E-4		pg	4724.7	12	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	7	20	
EPA 8081A	B	22	6	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804412857001 Caldate : 12-OCT-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	804412857029	13-OCT-2004	25.000	24.294	pg	-3	15
gamma-BHC	A	804412857029	13-OCT-2004	25.000	24.053	pg	-4	15
beta-BHC	A	804412857029	13-OCT-2004	25.000	23.550	pg	-6	15
delta-BHC	A	804412857029	13-OCT-2004	25.000	24.450	pg	-2	15
Heptachlor	A	804412857029	13-OCT-2004	25.000	24.413	pg	-2	15
Aldrin	A	804412857029	13-OCT-2004	25.000	24.438	pg	-2	15
Heptachlor epoxide	A	804412857029	13-OCT-2004	25.000	23.789	pg	-5	15
gamma-Chlordane	A	804412857029	13-OCT-2004	25.000	23.507	pg	-6	15
alpha-Chlordane	A	804412857029	13-OCT-2004	25.000	24.056	pg	-4	15
4,4'-DDE	A	804412857029	13-OCT-2004	25.000	24.339	pg	-3	15
Endosulfan I	A	804412857029	13-OCT-2004	25.000	24.332	pg	-3	15
Dieldrin	A	804412857029	13-OCT-2004	25.000	24.213	pg	-3	15
Endrin	A	804412857029	13-OCT-2004	25.000	23.572	pg	-6	15
4,4'-DDD	A	804412857029	13-OCT-2004	25.000	23.877	pg	-4	15
Endosulfan II	A	804412857029	13-OCT-2004	25.000	24.474	pg	-2	15
4,4'-DDT	A	804412857029	13-OCT-2004	25.000	24.420	pg	-2	15
Methoxychlor	A	804412857029	13-OCT-2004	25.000	27.599	pg	10	15
Endosulfan sulfate	A	804412857029	13-OCT-2004	25.000	24.957	pg	0	15
Endrin ketone	A	804412857029	13-OCT-2004	25.000	24.513	pg	-2	15
TCMX	A	804412857029	13-OCT-2004	25.000	27.218	pg	9	15
Decachlorobiphenyl	A	804412857029	13-OCT-2004	25.000	23.437	pg	-6	15
alpha-BHC	B	804412857029	13-OCT-2004	25.000	24.698	pg	-1	15
gamma-BHC	B	804412857029	13-OCT-2004	25.000	24.495	pg	-2	15
beta-BHC	B	804412857029	13-OCT-2004	25.000	23.490	pg	-6	15
delta-BHC	B	804412857029	13-OCT-2004	25.000	25.057	pg	0	15
Heptachlor	B	804412857029	13-OCT-2004	25.000	24.963	pg	0	15
Aldrin	B	804412857029	13-OCT-2004	25.000	25.037	pg	0	15
Heptachlor epoxide	B	804412857029	13-OCT-2004	25.000	24.325	pg	-3	15
gamma-Chlordane	B	804412857029	13-OCT-2004	25.000	24.073	pg	-4	15
alpha-Chlordane	B	804412857029	13-OCT-2004	25.000	24.208	pg	-3	15
4,4'-DDE	B	804412857029	13-OCT-2004	25.000	24.499	pg	-2	15
Endosulfan I	B	804412857029	13-OCT-2004	25.000	24.404	pg	-2	15
Dieldrin	B	804412857029	13-OCT-2004	25.000	24.523	pg	-2	15
Endrin	B	804412857029	13-OCT-2004	25.000	24.229	pg	-3	15
4,4'-DDD	B	804412857029	13-OCT-2004	25.000	24.309	pg	-3	15
Endosulfan II	B	804412857029	13-OCT-2004	25.000	24.680	pg	-1	15
4,4'-DDT	B	804412857029	13-OCT-2004	25.000	24.750	pg	-1	15
Methoxychlor	B	804412857029	13-OCT-2004	25.000	27.748	pg	11	15
Endosulfan sulfate	B	804412857029	13-OCT-2004	25.000	24.673	pg	-1	15
Endrin ketone	B	804412857029	13-OCT-2004	25.000	24.666	pg	-1	15
TCMX	B	804412857029	13-OCT-2004	25.000	27.011	pg	8	15
Decachlorobiphenyl	B	804412857029	13-OCT-2004	25.000	23.693	pg	-5	15

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	4	15	
EPA 8081A	B	22	3	15	

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234403952049 Run Name: Injected: 08-OCT-2004 19:32
Filename: 280_049 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	370224.25
Endrin aldehyde	A	1698.51
Endrin ketone	A	13132.03

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	493488.82
4,4'-DDE	A	2179.66
4,4'-DDD	A	58359.54

4,4'-DDT Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1130354.84
Endrin aldehyde	B	23595.95
Endrin ketone	B	47803.34

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1436304.07
4,4'-DDE	B	31529.69
4,4'-DDD	B	186292.84

4,4'-DDT Breakdown %: 13
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234403952050
Calnum : 234402633001
Standards: 04WS1633

Run Name : pest_5
Filename : 280_050
Caldate : 05-OCT-2004

IDF : 1.0
Injected : 08-OCT-2004 20:02
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	9045.7	10252	25.00000	28.33500	pg	13	15	rsd ***
gamma-BHC	A	8787.2	9784.3	25.00000	27.83671	pg	11	15	
beta-BHC	A	5015.3	5147.8	25.00000	25.66068	pg	3	15	
delta-BHC	A	8351.3	9390.3	25.00000	28.11038	pg	12	15	
Heptachlor	A	8178.7	8389.2	25.00000	25.64334	pg	3	15	
Aldrin	A	8329.6	8880.1	25.00000	26.65242	pg	7	15	
Heptachlor epoxide	A	8790.8	9185.8	25.00000	26.12315	pg	4	15	
gamma-Chlordane	A	9072.4	9576.7	25.00000	26.38965	pg	6	15	
alpha-Chlordane	A	9091.5	9504.4	25.00000	26.13528	pg	5	15	
4,4'-DDE	A	7813.1	8767.2	50.00000	56.10638	pg	12	15	
Endosulfan I	A	9421.0	9679.5	25.00000	25.68574	pg	3	15	
Dieldrin	A	8213.7	8745.4	50.00000	53.23704	pg	6	15	
Endrin	A	7007.7	7788.6	50.00000	55.57162	pg	11	15	
4,4'-DDD	A	5835.1	7130.8	50.00000	61.10308	pg	22	15	c+ ***
Endosulfan II	A	7802.3	8575.9	50.00000	54.95743	pg	10	15	
4,4'-DDT	A	4439.8	4726.8	50.00000	53.23169	pg	6	15	rsd ***
Methoxychlor	A	2311.0	2483.2	250.0000	268.6282	pg	7	15	
Endosulfan sulfate	A	7098.9	7683.5	50.00000	54.11733	pg	8	15	
Endrin ketone	A	7748.0	8613.7	50.00000	55.58682	pg	11	15	
TCMX	A	8300.1	8861.1	50.00000	53.37962	pg	7	15	
Decachlorobiphenyl	A	8115.0	8362.2	50.00000	51.52332	pg	3	15	
alpha-BHC	B	36174	39007	25.00000	26.95783	pg	8	15	
gamma-BHC	B	33383	35596	25.00000	26.65722	pg	7	15	
beta-BHC	B	18171	18298	25.00000	25.17537	pg	1	15	
delta-BHC	B	34755	36859	25.00000	26.51364	pg	6	15	
Heptachlor	B	22243	24327	25.00000	27.34191	pg	9	15	
Aldrin	B	31327	33444	25.00000	26.68935	pg	7	15	
Heptachlor epoxide	B	29654	29474	25.00000	24.84814	pg	-1	15	
gamma-Chlordane	B	32150	31592	25.00000	24.56662	pg	-2	15	
alpha-Chlordane	B	31620	30598	25.00000	24.19220	pg	-3	15	
4,4'-DDE	B	26616	28241	50.00000	53.05295	pg	6	15	
Endosulfan I	B	28169	28324	25.00000	25.13736	pg	1	15	
Dieldrin	B	27199	27936	50.00000	51.35376	pg	3	15	
Endrin	B	22674	23467	50.00000	51.74796	pg	3	15	
4,4'-DDD	B	19104	20840	50.00000	54.54387	pg	9	15	
Endosulfan II	B	24627	24830	50.00000	50.41224	pg	1	15	
4,4'-DDT	B	14347	14811	50.00000	51.61855	pg	3	15	
Methoxychlor	B	6184.6	6743.8	250.0000	272.6037	pg	9	15	
Endosulfan sulfate	B	22325	22346	50.00000	50.04790	pg	0	15	
Endrin ketone	B	23289	23939	50.00000	51.39525	pg	3	15	
TCMX	B	25756	25761	50.00000	50.00920	pg	0	15	
Decachlorobiphenyl	B	18496	18030	50.00000	48.74030	pg	-3	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				4	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234403952069 Run Name: Injected: 09-OCT-2004 06:08
Filename: 280_069 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	351211.82
Endrin aldehyde	A	2016.5
Endrin ketone	A	14023.82

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	392345.44
4,4'-DDE	A	2230.03
4,4'-DDD	A	84063.93

4,4'-DDT Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1062459.08
Endrin aldehyde	B	14441.68
Endrin ketone	B	51812.43

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1214576.25
4,4'-DDE	B	26396.74
4,4'-DDD	B	280694.81

4,4'-DDT Breakdown %: **20 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_4 IDF : 1.0
Seqnum : 234403952068 Filename : 280_068 Injected : 09-OCT-2004 05:38
Calnum : 234402633001 Caldate : 05-OCT-2004 Caltype :
Standards: 04WS1632

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	9045.7	9384.8	20.00000	20.74987	pg	4	15	rsd ***
gamma-BHC	A	8787.2	9146.3	20.00000	20.81728	pg	4	15	
beta-BHC	A	5015.3	5006.4	20.00000	19.96444	pg	0	15	
delta-BHC	A	8351.3	8522.0	20.00000	20.40880	pg	2	15	
Heptachlor	A	8178.7	8017.2	20.00000	19.60522	pg	-2	15	
Aldrin	A	8329.6	8604.0	20.00000	20.65894	pg	3	15	
Heptachlor epoxide	A	8790.8	9219.3	20.00000	20.97485	pg	5	15	
gamma-Chlordane	A	9072.4	9416.9	20.00000	20.75957	pg	4	15	
alpha-Chlordane	A	9091.5	9410.1	20.00000	20.70084	pg	4	15	
4,4'-DDE	A	7813.1	8543.2	40.00000	43.73817	pg	9	15	
Endosulfan I	A	9421.0	9659.6	20.00000	20.50634	pg	3	15	
Dieldrin	A	8213.7	8689.0	40.00000	42.31506	pg	6	15	
Endrin	A	7007.7	7602.5	40.00000	43.39481	pg	8	15	
4,4'-DDD	A	5835.1	6741.5	40.00000	46.21369	pg	16	15	c+ ***
Endosulfan II	A	7802.3	8080.1	40.00000	41.42441	pg	4	15	
4,4'-DDT	A	4439.8	3795.8	40.00000	34.19786	pg	-15	15	rsd ***
Methoxychlor	A	2311.0	2218.9	200.0000	192.0346	pg	-4	15	
Endosulfan sulfate	A	7098.9	7148.7	40.00000	40.28052	pg	1	15	
Endrin ketone	A	7748.0	7756.8	40.00000	40.04536	pg	0	15	
TCMX	A	8300.1	8467.3	40.00000	40.80555	pg	2	15	
Decachlorobiphenyl	A	8115.0	7869.7	40.00000	38.79115	pg	-3	15	
alpha-BHC	B	36174	37231	20.00000	20.58440	pg	3	15	
gamma-BHC	B	33383	33819	20.00000	20.26097	pg	1	15	
beta-BHC	B	18171	17466	20.00000	19.22397	pg	-4	15	
delta-BHC	B	34755	34603	20.00000	19.91310	pg	0	15	
Heptachlor	B	22243	24160	20.00000	21.72376	pg	9	15	
Aldrin	B	31327	31639	20.00000	20.19917	pg	1	15	
Heptachlor epoxide	B	29654	29505	20.00000	19.89964	pg	-1	15	
gamma-Chlordane	B	32150	31296	20.00000	19.46879	pg	-3	15	
alpha-Chlordane	B	31620	30580	20.00000	19.34242	pg	-3	15	
4,4'-DDE	B	26616	27928	40.00000	41.97207	pg	5	15	
Endosulfan I	B	28169	27721	20.00000	19.68188	pg	-2	15	
Dieldrin	B	27199	27722	40.00000	40.76930	pg	2	15	
Endrin	B	22674	23237	40.00000	40.99318	pg	2	15	
4,4'-DDD	B	19104	20239	40.00000	42.37652	pg	6	15	
Endosulfan II	B	24627	23826	40.00000	38.70035	pg	-3	15	
4,4'-DDT	B	14347	13541	40.00000	37.75219	pg	-6	15	
Methoxychlor	B	6184.6	6222.0	200.0000	201.2081	pg	1	15	
Endosulfan sulfate	B	22325	21005	40.00000	37.63473	pg	-6	15	
Endrin ketone	B	23289	22088	40.00000	37.93610	pg	-5	15	
TCMX	B	25756	24640	40.00000	38.26556	pg	-4	15	
Decachlorobiphenyl	B	18496	16586	40.00000	35.86924	pg	-10	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				4	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063002 Run Name: Injected: 10-OCT-2004 18:23
Filename: 284_002 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	403033.88
Endrin aldehyde	A	28063.87
Endrin ketone	A	17583.17

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	891099.99
4,4'-DDE	A	4147.47
4,4'-DDD	A	14209.22

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	304797.55
Endrin aldehyde	B	19822.03
Endrin ketone	B	41677

Endrin Breakdown %: **17 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	488904.9
4,4'-DDE	B	4143.64
4,4'-DDD	B	30929.81

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804410063004 Filename : 284_004 Injected : 10-OCT-2004 20:02
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :
Standards: 04WS1632

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13798	20.00000	18.99330	pg	-5	15	
gamma-BHC	A	13119	12494	20.00000	19.04815	pg	-5	15	
beta-BHC	A	5573.2	5390.7	20.00000	19.34507	pg	-3	15	
delta-BHC	A	13128	12275	20.00000	18.70044	pg	-6	15	
Heptachlor	A	10759	10265	20.00000	19.08231	pg	-5	15	
Aldrin	A	12104	11255	20.00000	18.59662	pg	-7	15	
Heptachlor epoxide	A	11281	10515	20.00000	18.64234	pg	-7	15	
gamma-Chlordane	A	11389	10572	20.00000	18.56511	pg	-7	15	
alpha-Chlordane	A	11028	10156	20.00000	18.41849	pg	-8	15	
4,4'-DDE	A	10910	10156	40.00000	37.23734	pg	-7	15	
Endosulfan I	A	10383	9689.6	20.00000	18.66525	pg	-7	15	
Dieldrin	A	11293	10316	40.00000	36.53987	pg	-9	15	
Endrin	A	8735.5	7882.6	40.00000	36.09455	pg	-10	15	
4,4'-DDD	A	9444.6	7987.9	40.00000	33.83074	pg	-15	15	
Endosulfan II	A	9750.1	8844.3	40.00000	36.28408	pg	-9	15	
4,4'-DDT	A	7654.9	7751.8	40.00000	40.50601	pg	1	15	
Methoxychlor	A	3379.6	3498.7	200.0000	207.0489	pg	4	15	
Endosulfan sulfate	A	8615.6	7548.7	40.00000	35.04704	pg	-12	15	
Endrin ketone	A	10485	9232.6	40.00000	35.22279	pg	-12	15	
TCMX	A	9377.7	8851.4	40.00000	37.75482	pg	-6	15	
Decachlorobiphenyl	A	6642.4	5807.8	40.00000	34.97422	pg	-13	15	
alpha-BHC	B	14309	12932	20.00000	18.07474	pg	-10	15	
gamma-BHC	B	12938	11610	20.00000	17.94729	pg	-10	15	
beta-BHC	B	5790.6	5164.1	20.00000	17.83591	pg	-11	15	
delta-BHC	B	12965	11663	20.00000	17.99108	pg	-10	15	
Heptachlor	B	8561.9	7033.6	20.00000	16.43008	pg	-18	15	c- ***
Aldrin	B	12159	11214	20.00000	18.44479	pg	-8	15	
Heptachlor epoxide	B	11128	10188	20.00000	18.31185	pg	-8	15	
gamma-Chlordane	B	11544	10712	20.00000	18.55877	pg	-7	15	
alpha-Chlordane	B	11128	10402	20.00000	18.69413	pg	-7	15	
4,4'-DDE	B	10944	10564	40.00000	38.61112	pg	-3	15	
Endosulfan I	B	10427	9660.8	20.00000	18.53099	pg	-7	15	
Dieldrin	B	11102	10114	40.00000	36.43801	pg	-9	15	
Endrin	B	8166.7	7037.9	40.00000	34.47103	pg	-14	15	
4,4'-DDD	B	9180.4	8196.3	40.00000	35.71202	pg	-11	15	
Endosulfan II	B	9634.2	8966.0	40.00000	37.22576	pg	-7	15	
4,4'-DDT	B	6626.8	5587.4	40.00000	33.72629	pg	-16	15	c- ***
Methoxychlor	B	3060.9	2612.4	200.0000	170.6964	pg	-15	15	
Endosulfan sulfate	B	8711.7	7788.6	40.00000	35.76139	pg	-11	15	
Endrin ketone	B	10337	9381.7	40.00000	36.30376	pg	-9	15	
TCMX	B	9359.5	8401.4	40.00000	35.90537	pg	-10	15	
Decachlorobiphenyl	B	6102.7	5758.9	40.00000	37.74652	pg	-6	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				10	15	

-=low bias c=CCV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063018 Run Name: Injected: 11-OCT-2004 03:03
Filename: 284_018 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	379200.11
Endrin aldehyde	A	17663.89
Endrin ketone	A	22762.17

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	760865.07
4,4'-DDE	A	2927.34
4,4'-DDD	A	24339.49

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	412288.73
Endrin aldehyde	B	18059.58
Endrin ketone	B	52852

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	665601.77
4,4'-DDE	B	4357.72
4,4'-DDD	B	69042.07

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804410063019
Calnum : 804386835001
Standards: 04WS1630

Run Name : pest_3
Filename : 284_019
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 11-OCT-2004 03:33
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13511	10.00000	9.298587	pg	-7	15	
gamma-BHC	A	13119	12361	10.00000	9.422357	pg	-6	15	
beta-BHC	A	5573.2	5460.1	10.00000	9.796993	pg	-2	15	
delta-BHC	A	13128	12050	10.00000	9.178741	pg	-8	15	
Heptachlor	A	10759	10237	10.00000	9.514354	pg	-5	15	
Aldrin	A	12104	11216	10.00000	9.266009	pg	-7	15	
Heptachlor epoxide	A	11281	10452	10.00000	9.265637	pg	-7	15	
gamma-Chlordane	A	11389	10440	10.00000	9.166631	pg	-8	15	
alpha-Chlordane	A	11028	10084	10.00000	9.143772	pg	-9	15	
4,4'-DDE	A	10910	9745.4	20.00000	17.86582	pg	-11	15	
Endosulfan I	A	10383	9698.5	10.00000	9.341207	pg	-7	15	
Dieldrin	A	11293	10186	20.00000	18.03949	pg	-10	15	
Endrin	A	8735.5	7557.9	20.00000	17.30385	pg	-13	15	
4,4'-DDD	A	9444.6	8242.4	20.00000	17.45435	pg	-13	15	
Endosulfan II	A	9750.1	8768.6	20.00000	17.98678	pg	-10	15	
4,4'-DDT	A	7654.9	7338.8	20.00000	19.17402	pg	-4	15	
Methoxychlor	A	3379.6	3252.5	100.0000	96.23943	pg	-4	15	
Endosulfan sulfate	A	8615.6	7694.3	20.00000	17.86149	pg	-11	15	
Endrin ketone	A	10485	9555.0	20.00000	18.22637	pg	-9	15	
TCMX	A	9377.7	8848.0	20.00000	18.87026	pg	-6	15	
Decachlorobiphenyl	A	6642.4	5802.7	20.00000	17.47176	pg	-13	15	
alpha-BHC	B	14309	12839	10.00000	8.972354	pg	-10	15	
gamma-BHC	B	12938	11734	10.00000	9.068899	pg	-9	15	
beta-BHC	B	5790.6	5345.1	10.00000	9.230617	pg	-8	15	
delta-BHC	B	12965	11577	10.00000	8.929032	pg	-11	15	
Heptachlor	B	8561.9	7492.0	10.00000	8.750438	pg	-12	15	
Aldrin	B	12159	11209	10.00000	9.218139	pg	-8	15	
Heptachlor epoxide	B	11128	10349	10.00000	9.300692	pg	-7	15	
gamma-Chlordane	B	11544	10575	10.00000	9.160898	pg	-8	15	
alpha-Chlordane	B	11128	10289	10.00000	9.246018	pg	-8	15	
4,4'-DDE	B	10944	10126	20.00000	18.50548	pg	-7	15	
Endosulfan I	B	10427	9763.4	10.00000	9.363957	pg	-6	15	
Dieldrin	B	11102	10272	20.00000	18.50381	pg	-7	15	
Endrin	B	8166.7	7082.6	20.00000	17.34511	pg	-13	15	
4,4'-DDD	B	9180.4	8807.5	20.00000	19.18760	pg	-4	15	
Endosulfan II	B	9634.2	8977.3	20.00000	18.63629	pg	-7	15	
4,4'-DDT	B	6626.8	5375.6	20.00000	16.22392	pg	-19	15	c- ***
Methoxychlor	B	3060.9	2677.3	100.0000	87.46747	pg	-13	15	
Endosulfan sulfate	B	8711.7	7907.7	20.00000	18.15430	pg	-9	15	
Endrin ketone	B	10337	10149	20.00000	19.63737	pg	-2	15	
TCMX	B	9359.5	8567.2	20.00000	18.30682	pg	-8	15	
Decachlorobiphenyl	B	6102.7	5711.6	20.00000	18.71816	pg	-6	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				9	15	

-=low bias c=CCV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063035 Run Name: Injected: 11-OCT-2004 11:34
Filename: 284_035 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	378869.65
Endrin aldehyde	A	11521.58
Endrin ketone	A	19340.62

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	674057.95
4,4'-DDE	A	4016.08
4,4'-DDD	A	38194.33

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	445984.18
Endrin aldehyde	B	10403.76
Endrin ketone	B	66897.6

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	625551.04
4,4'-DDE	B	3768.88
4,4'-DDD	B	99908.41

4,4'-DDT Breakdown %: 14
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804410063036 Filename : 284_036 Injected : 11-OCT-2004 12:04
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :
Standards: 04WS1632

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	12974	20.00000	17.85810	pg	-11	15	
gamma-BHC	A	13119	11633	20.00000	17.73566	pg	-11	15	
beta-BHC	A	5573.2	5026.6	20.00000	18.03851	pg	-10	15	
delta-BHC	A	13128	11512	20.00000	17.53935	pg	-12	15	
Heptachlor	A	10759	9691.7	20.00000	18.01565	pg	-10	15	
Aldrin	A	12104	10548	20.00000	17.42840	pg	-13	15	
Heptachlor epoxide	A	11281	9811.1	20.00000	17.39468	pg	-13	15	
gamma-Chlordane	A	11389	9788.0	20.00000	17.18822	pg	-14	15	
alpha-Chlordane	A	11028	9432.4	20.00000	17.10593	pg	-14	15	
4,4'-DDE	A	10910	9436.1	40.00000	34.59744	pg	-14	15	
Endosulfan I	A	10383	9027.4	20.00000	17.38962	pg	-13	15	
Dieldrin	A	11293	9770.7	40.00000	34.60834	pg	-13	15	
Endrin	A	8735.5	7793.3	40.00000	35.68541	pg	-11	15	
4,4'-DDD	A	9444.6	8005.4	40.00000	33.90454	pg	-15	15	
Endosulfan II	A	9750.1	8215.0	40.00000	33.70204	pg	-16	15	c- ***
4,4'-DDT	A	7654.9	6425.3	40.00000	33.57501	pg	-16	15	c- ***
Methoxychlor	A	3379.6	3101.5	200.0000	183.5434	pg	-8	15	
Endosulfan sulfate	A	8615.6	7258.8	40.00000	33.70087	pg	-16	15	c- ***
Endrin ketone	A	10485	8804.8	40.00000	33.59069	pg	-16	15	c- ***
TCMX	A	9377.7	8310.4	40.00000	35.44718	pg	-11	15	
Decachlorobiphenyl	A	6642.4	4914.7	40.00000	29.59577	pg	-26	15	c-
alpha-BHC	B	14309	14586	20.00000	20.38713	pg	2	15	
gamma-BHC	B	12938	13158	20.00000	20.33964	pg	2	15	
beta-BHC	B	5790.6	5879.0	20.00000	20.30508	pg	2	15	
delta-BHC	B	12965	13360	20.00000	20.60897	pg	3	15	
Heptachlor	B	8561.9	9117.0	20.00000	21.29666	pg	6	15	
Aldrin	B	12159	12443	20.00000	20.46644	pg	2	15	
Heptachlor epoxide	B	11128	11562	20.00000	20.78070	pg	4	15	
gamma-Chlordane	B	11544	11854	20.00000	20.53700	pg	3	15	
alpha-Chlordane	B	11128	11499	20.00000	20.66718	pg	3	15	
4,4'-DDE	B	10944	11518	40.00000	42.09709	pg	5	15	
Endosulfan I	B	10427	10881	20.00000	20.87175	pg	4	15	
Dieldrin	B	11102	11656	40.00000	41.99552	pg	5	15	
Endrin	B	8166.7	9135.6	40.00000	44.74558	pg	12	15	
4,4'-DDD	B	9180.4	10063	40.00000	43.84620	pg	10	15	
Endosulfan II	B	9634.2	10057	40.00000	41.75672	pg	4	15	
4,4'-DDT	B	6626.8	6491.7	40.00000	39.18455	pg	-2	15	
Methoxychlor	B	3060.9	3272.2	200.0000	213.8023	pg	7	15	
Endosulfan sulfate	B	8711.7	8926.8	40.00000	40.98783	pg	2	15	
Endrin ketone	B	10337	10704	40.00000	41.41927	pg	4	15	
TCMX	B	9359.5	9318.7	40.00000	39.82545	pg	0	15	
Decachlorobiphenyl	B	6102.7	5894.0	40.00000	38.63235	pg	-3	15	
Average EPA 8081A	A		(count=22)				14	15	
Average EPA 8081A	B		(count=22)				4	15	

-=low bias c=CCV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063049 Run Name: Injected: 11-OCT-2004 21:12
Filename: 284_049 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	371923.13
Endrin aldehyde	A	20181.43
Endrin ketone	A	30336.15

Endrin Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	610892.67
4,4'-DDE	A	4131.19
4,4'-DDD	A	77299.56

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	401118.62
Endrin aldehyde	B	21436.38
Endrin ketone	B	54658.25

Endrin Breakdown %: 16 P ***
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	514536.54
4,4'-DDE	B	7413.62
4,4'-DDD	B	123662.4

4,4'-DDT Breakdown %: 20 P ***
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804410063052
Calnum : 804386835001
Standards: 04WS1633

Run Name : ccv
Filename : 284_052
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 11-OCT-2004 22:42
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13744	25.00000	23.64830	pg	-5	15	
gamma-BHC	A	13119	12340	25.00000	23.51687	pg	-6	15	
beta-BHC	A	5573.2	5267.8	25.00000	23.62981	pg	-5	15	
delta-BHC	A	13128	12295	25.00000	23.41467	pg	-6	15	
Heptachlor	A	10759	10663	25.00000	24.77759	pg	-1	15	
Aldrin	A	12104	11295	25.00000	23.32878	pg	-7	15	
Heptachlor epoxide	A	11281	10457	25.00000	23.17416	pg	-7	15	
gamma-Chlordane	A	11389	10577	25.00000	23.21792	pg	-7	15	
alpha-Chlordane	A	11028	10139	25.00000	22.98393	pg	-8	15	
4,4'-DDE	A	10910	10425	50.00000	47.77859	pg	-4	15	
Endosulfan I	A	10383	9609.4	25.00000	23.13835	pg	-7	15	
Dieldrin	A	11293	10770	50.00000	47.68576	pg	-5	15	
Endrin	A	8735.5	8627.0	50.00000	49.37894	pg	-1	15	
4,4'-DDD	A	9444.6	9011.9	50.00000	47.70961	pg	-5	15	
Endosulfan II	A	9750.1	9124.9	50.00000	46.79390	pg	-6	15	
4,4'-DDT	A	7654.9	7265.4	50.00000	47.45571	pg	-5	15	
Methoxychlor	A	3379.6	3490.8	250.0000	258.2264	pg	3	15	
Endosulfan sulfate	A	8615.6	7948.3	50.00000	46.12759	pg	-8	15	
Endrin ketone	A	10485	9730.7	50.00000	46.40362	pg	-7	15	
TCMX	A	9377.7	8767.3	50.00000	46.74529	pg	-7	15	
Decachlorobiphenyl	A	6642.4	5903.2	50.00000	44.43605	pg	-11	15	
alpha-BHC	B	14309	13714	25.00000	23.95945	pg	-4	15	
gamma-BHC	B	12938	12320	25.00000	23.80497	pg	-5	15	
beta-BHC	B	5790.6	5405.7	25.00000	23.33811	pg	-7	15	
delta-BHC	B	12965	12433	25.00000	23.97337	pg	-4	15	
Heptachlor	B	8561.9	8057.9	25.00000	23.52860	pg	-6	15	
Aldrin	B	12159	11717	25.00000	24.09151	pg	-4	15	
Heptachlor epoxide	B	11128	10627	25.00000	23.87645	pg	-4	15	
gamma-Chlordane	B	11544	11088	25.00000	24.01426	pg	-4	15	
alpha-Chlordane	B	11128	10702	25.00000	24.04169	pg	-4	15	
4,4'-DDE	B	10944	10824	50.00000	49.45153	pg	-1	15	
Endosulfan I	B	10427	10134	25.00000	24.29744	pg	-3	15	
Dieldrin	B	11102	10955	50.00000	49.33499	pg	-1	15	
Endrin	B	8166.7	8160.8	50.00000	49.96369	pg	0	15	
4,4'-DDD	B	9180.4	9775.4	50.00000	53.24044	pg	6	15	
Endosulfan II	B	9634.2	9575.1	50.00000	49.69333	pg	-1	15	
4,4'-DDT	B	6626.8	5259.7	50.00000	39.68506	pg	-21	15	c- ***
Methoxychlor	B	3060.9	2723.2	250.0000	222.4150	pg	-11	15	
Endosulfan sulfate	B	8711.7	8375.4	50.00000	48.07010	pg	-4	15	
Endrin ketone	B	10337	9932.4	50.00000	48.04324	pg	-4	15	
TCMX	B	9359.5	8829.0	50.00000	47.16593	pg	-6	15	
Decachlorobiphenyl	B	6102.7	5421.2	50.00000	44.41661	pg	-11	15	
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063065 Run Name: Injected: 12-OCT-2004 05:13
Filename: 284_065 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	475698.21
Endrin aldehyde	A	11271.64
Endrin ketone	A	26461.23

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	861286.05
4,4'-DDE	A	4644.31
4,4'-DDD	A	61809.19

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	404445.82
Endrin aldehyde	B	14225.37
Endrin ketone	B	50639.74

Endrin Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	498430.39
4,4'-DDE	B	4036.82
4,4'-DDD	B	121447.16

4,4'-DDT Breakdown %: **20 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804410063066
Calnum : 804386835001
Standards: 04WS1632

Run Name : pest_4
Filename : 284_066
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 12-OCT-2004 05:43
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13777	20.00000	18.96342	pg	-5	15	
gamma-BHC	A	13119	12296	20.00000	18.74632	pg	-6	15	
beta-BHC	A	5573.2	5345.9	20.00000	19.18437	pg	-4	15	
delta-BHC	A	13128	12375	20.00000	18.85289	pg	-6	15	
Heptachlor	A	10759	10370	20.00000	19.27631	pg	-4	15	
Aldrin	A	12104	11437	20.00000	18.89731	pg	-6	15	
Heptachlor epoxide	A	11281	10640	20.00000	18.86380	pg	-6	15	
gamma-Chlordane	A	11389	10696	20.00000	18.78273	pg	-6	15	
alpha-Chlordane	A	11028	10385	20.00000	18.83407	pg	-6	15	
4,4'-DDE	A	10910	10417	40.00000	38.19379	pg	-5	15	
Endosulfan I	A	10383	9895.4	20.00000	19.06173	pg	-5	15	
Dieldrin	A	11293	10808	40.00000	38.28190	pg	-4	15	
Endrin	A	8735.5	7942.3	40.00000	36.36797	pg	-9	15	
4,4'-DDD	A	9444.6	9071.6	40.00000	38.42020	pg	-4	15	
Endosulfan II	A	9750.1	9138.9	40.00000	37.49263	pg	-6	15	
4,4'-DDT	A	7654.9	6819.1	40.00000	35.63278	pg	-11	15	
Methoxychlor	A	3379.6	3341.6	200.0000	197.7539	pg	-1	15	
Endosulfan sulfate	A	8615.6	8012.3	40.00000	37.19925	pg	-7	15	
Endrin ketone	A	10485	9838.8	40.00000	37.53545	pg	-6	15	
TCMX	A	9377.7	8785.0	40.00000	37.47183	pg	-6	15	
Decachlorobiphenyl	A	6642.4	5562.5	40.00000	33.49700	pg	-16	15	c-
alpha-BHC	B	14309	13806	20.00000	19.29642	pg	-4	15	
gamma-BHC	B	12938	12154	20.00000	18.78722	pg	-6	15	
beta-BHC	B	5790.6	5442.0	20.00000	18.79589	pg	-6	15	
delta-BHC	B	12965	12288	20.00000	18.95486	pg	-5	15	
Heptachlor	B	8561.9	7902.7	20.00000	18.46013	pg	-8	15	
Aldrin	B	12159	11568	20.00000	19.02742	pg	-5	15	
Heptachlor epoxide	B	11128	10615	20.00000	19.07878	pg	-5	15	
gamma-Chlordane	B	11544	10844	20.00000	18.78862	pg	-6	15	
alpha-Chlordane	B	11128	10543	20.00000	18.94751	pg	-5	15	
4,4'-DDE	B	10944	10465	40.00000	38.24964	pg	-4	15	
Endosulfan I	B	10427	9963.2	20.00000	19.11104	pg	-4	15	
Dieldrin	B	11102	10670	40.00000	38.44274	pg	-4	15	
Endrin	B	8166.7	7164.0	40.00000	35.08883	pg	-12	15	
4,4'-DDD	B	9180.4	9438.6	40.00000	41.12507	pg	3	15	
Endosulfan II	B	9634.2	9277.3	40.00000	38.51835	pg	-4	15	
4,4'-DDT	B	6626.8	4779.7	40.00000	28.85066	pg	-28	15	c- ***
Methoxychlor	B	3060.9	2449.3	200.0000	160.0337	pg	-20	15	c- ***
Endosulfan sulfate	B	8711.7	7988.0	40.00000	36.67728	pg	-8	15	
Endrin ketone	B	10337	9660.3	40.00000	37.38193	pg	-7	15	
TCMX	B	9359.5	8875.7	40.00000	37.93240	pg	-5	15	
Decachlorobiphenyl	B	6102.7	4824.2	40.00000	31.62007	pg	-21	15	c-
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				8	15	

-=low bias c=CCV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114002 Run Name: Injected: 13-OCT-2004 13:54
Filename: 287_002 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	367607.46
Endrin aldehyde	A	29657.26
Endrin ketone	A	44682.65

Endrin Breakdown %: 17 P ***
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	805886.01
4,4'-DDE	A	3187.37
4,4'-DDD	A	13518.86

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	249708.21
Endrin aldehyde	B	7198.52
Endrin ketone	B	8666

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	421548.33
4,4'-DDE	B	1584.5
4,4'-DDD	B	5797.21

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804414114003
Calnum : 804412857001
Standards: 04WS1632

Run Name : pest_4
Filename : 287_003
Caldate : 12-OCT-2004

IDF : 1.0
Injected : 13-OCT-2004 14:24
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	15167	20.00000	21.24076	pg	6	15	
gamma-BHC	A	12975	13842	20.00000	21.33608	pg	7	15	
beta-BHC	A	5584.0	6007.7	20.00000	21.51756	pg	8	15	
delta-BHC	A	12934	13724	20.00000	21.22091	pg	6	15	
Heptachlor	A	11292	11864	20.00000	21.01223	pg	5	15	
Aldrin	A	11818	12499	20.00000	21.15330	pg	6	15	
Heptachlor epoxide	A	10970	11613	20.00000	21.17254	pg	6	15	
gamma-Chlordane	A	11087	11736	20.00000	21.17039	pg	6	15	
alpha-Chlordane	A	10673	11355	20.00000	21.27700	pg	6	15	
4,4'-DDE	A	10537	11479	40.00000	43.57805	pg	9	15	
Endosulfan I	A	10128	10850	20.00000	21.42635	pg	7	15	
Dieldrin	A	10899	11778	40.00000	43.22440	pg	8	15	
Endrin	A	8637.5	9253.2	40.00000	42.85118	pg	7	15	
4,4'-DDD	A	8683.1	9297.1	40.00000	42.82856	pg	7	15	
Endosulfan II	A	9314.0	10036	40.00000	43.10127	pg	8	15	
4,4'-DDT	A	8352.9	9181.5	40.00000	43.96780	pg	10	15	
Methoxychlor	A	3681.9	4197.7	200.0000	228.0142	pg	14	15	
Endosulfan sulfate	A	8314.1	8790.2	40.00000	42.29071	pg	6	15	
Endrin ketone	A	10314	11061	40.00000	42.89560	pg	7	15	
TCMX	A	9191.2	9685.5	40.00000	42.15099	pg	5	15	
Decachlorobiphenyl	A	6490.2	6865.4	40.00000	42.31233	pg	6	15	
alpha-BHC	B	10184	9131.5	20.00000	17.93259	pg	-10	15	
gamma-BHC	B	9205.2	8295.4	20.00000	18.02326	pg	-10	15	
beta-BHC	B	4069.1	3604.3	20.00000	17.71526	pg	-11	15	
delta-BHC	B	9048.9	8213.7	20.00000	18.15403	pg	-9	15	
Heptachlor	B	6311.0	5392.3	20.00000	17.08870	pg	-15	15	
Aldrin	B	8642.9	7933.8	20.00000	18.35909	pg	-8	15	
Heptachlor epoxide	B	7991.6	7344.4	20.00000	18.38011	pg	-8	15	
gamma-Chlordane	B	8205.8	7652.0	20.00000	18.65029	pg	-7	15	
alpha-Chlordane	B	7973.5	7458.7	20.00000	18.70885	pg	-6	15	
4,4'-DDE	B	7918.8	7664.2	40.00000	38.71378	pg	-3	15	
Endosulfan I	B	7514.9	7038.9	20.00000	18.73322	pg	-6	15	
Dieldrin	B	8095.3	7767.1	40.00000	38.37824	pg	-4	15	
Endrin	B	6507.9	6195.3	40.00000	38.07847	pg	-5	15	
4,4'-DDD	B	6451.1	6180.5	40.00000	38.32223	pg	-4	15	
Endosulfan II	B	7016.4	6771.3	40.00000	38.60282	pg	-3	15	
4,4'-DDT	B	5483.1	5129.5	40.00000	37.42035	pg	-6	15	
Methoxychlor	B	2529.0	2501.6	200.0000	197.8332	pg	-1	15	
Endosulfan sulfate	B	6281.2	5894.9	40.00000	37.53972	pg	-6	15	
Endrin ketone	B	7493.8	7176.8	40.00000	38.30789	pg	-4	15	
TCMX	B	6828.8	6105.1	40.00000	35.76086	pg	-11	15	
Decachlorobiphenyl	B	4724.7	4647.9	40.00000	39.34998	pg	-2	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				7	15	

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114019 Run Name: Injected: 14-OCT-2004 00:15
Filename: 287_019 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	366135.5
Endrin aldehyde	A	38958.48
Endrin ketone	A	65739.21

Endrin Breakdown %: 22 P ***
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	777275.38
4,4'-DDE	A	3401.44
4,4'-DDD	A	36688

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	309401.94
Endrin aldehyde	B	9660.38
Endrin ketone	B	17338.71

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	519578.11
4,4'-DDE	B	2347.5
4,4'-DDD	B	16229.46

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804414114021
Calnum : 804412857001
Standards: 04WS1630

Run Name : ccv
Filename : 287_021
Caldate : 12-OCT-2004

IDF : 1.0
Injected : 14-OCT-2004 01:15
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	14500	10.00000	10.15314	pg	2	15	
gamma-BHC	A	12975	13215	10.00000	10.18508	pg	2	15	
beta-BHC	A	5584.0	5806.0	10.00000	10.39754	pg	4	15	
delta-BHC	A	12934	12983	10.00000	10.03803	pg	0	15	
Heptachlor	A	11292	10995	10.00000	9.737008	pg	-3	15	
Aldrin	A	11818	12142	10.00000	10.27455	pg	3	15	
Heptachlor epoxide	A	10970	11246	10.00000	10.25167	pg	3	15	
gamma-Chlordane	A	11087	11340	10.00000	10.22787	pg	2	15	
alpha-Chlordane	A	10673	10944	10.00000	10.25366	pg	3	15	
4,4'-DDE	A	10537	10518	20.00000	19.96447	pg	0	15	
Endosulfan I	A	10128	10454	10.00000	10.32218	pg	3	15	
Dieldrin	A	10899	11003	20.00000	20.19144	pg	1	15	
Endrin	A	8637.5	7918.0	20.00000	18.33388	pg	-8	15	
4,4'-DDD	A	8683.1	8884.9	20.00000	20.46495	pg	2	15	
Endosulfan II	A	9314.0	9362.6	20.00000	20.10425	pg	1	15	
4,4'-DDT	A	8352.9	7192.8	20.00000	17.22221	pg	-14	15	
Methoxychlor	A	3681.9	3196.2	100.0000	86.80852	pg	-13	15	
Endosulfan sulfate	A	8314.1	8255.3	20.00000	19.85872	pg	-1	15	
Endrin ketone	A	10314	10511	20.00000	20.38307	pg	2	15	
TCMX	A	9191.2	9541.1	20.00000	20.76135	pg	4	15	
Decachlorobiphenyl	A	6490.2	6200.1	20.00000	19.10620	pg	-4	15	
alpha-BHC	B	10184	9944.1	10.00000	9.764223	pg	-2	15	
gamma-BHC	B	9205.2	9082.6	10.00000	9.866856	pg	-1	15	
beta-BHC	B	4069.1	4069.9	10.00000	10.00185	pg	0	15	
delta-BHC	B	9048.9	8836.2	10.00000	9.764942	pg	-2	15	
Heptachlor	B	6311.0	6063.1	10.00000	9.607264	pg	-4	15	
Aldrin	B	8642.9	8538.7	10.00000	9.879369	pg	-1	15	
Heptachlor epoxide	B	7991.6	7931.7	10.00000	9.925023	pg	-1	15	
gamma-Chlordane	B	8205.8	8094.4	10.00000	9.864272	pg	-1	15	
alpha-Chlordane	B	7973.5	7901.8	10.00000	9.910069	pg	-1	15	
4,4'-DDE	B	7918.8	7821.0	20.00000	19.75276	pg	-1	15	
Endosulfan I	B	7514.9	7463.2	10.00000	9.931220	pg	-1	15	
Dieldrin	B	8095.3	8066.2	20.00000	19.92790	pg	0	15	
Endrin	B	6507.9	6213.8	20.00000	19.09615	pg	-5	15	
4,4'-DDD	B	6451.1	6348.9	20.00000	19.68305	pg	-2	15	
Endosulfan II	B	7016.4	6928.0	20.00000	19.74796	pg	-1	15	
4,4'-DDT	B	5483.1	4958.1	20.00000	18.08482	pg	-10	15	
Methoxychlor	B	2529.0	2341.3	100.0000	92.57679	pg	-7	15	
Endosulfan sulfate	B	6281.2	6065.3	20.00000	19.31247	pg	-3	15	
Endrin ketone	B	7493.8	7477.8	20.00000	19.95741	pg	0	15	
TCMX	B	6828.8	6474.5	20.00000	18.96217	pg	-5	15	
Decachlorobiphenyl	B	4724.7	4506.1	20.00000	19.07445	pg	-5	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				3	15	

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114035 Run Name: Injected: 14-OCT-2004 08:20
Filename: 287_035 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	399046.3
Endrin aldehyde	A	16406.15
Endrin ketone	A	59525

Endrin Breakdown %: 16 P ***
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	703903.4
4,4'-DDE	A	3296.16
4,4'-DDD	A	61003.77

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	371125.8
Endrin aldehyde	B	6087.5
Endrin ketone	B	19843.93

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	578302.5
4,4'-DDE	B	2795.65
4,4'-DDD	B	43721.7

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804414114037
Calnum : 804412857001
Standards: 04WS1630

Run Name : ccv
Filename : 287_037
Caldate : 12-OCT-2004

IDF : 1.0
Injected : 14-OCT-2004 09:21
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	14100	10.00000	9.873040	pg	-1	15	
gamma-BHC	A	12975	12887	10.00000	9.931783	pg	-1	15	
beta-BHC	A	5584.0	5740.2	10.00000	10.27964	pg	3	15	
delta-BHC	A	12934	12876	10.00000	9.955303	pg	0	15	
Heptachlor	A	11292	10602	10.00000	9.388636	pg	-6	15	
Aldrin	A	11818	11920	10.00000	10.08641	pg	1	15	
Heptachlor epoxide	A	10970	11159	10.00000	10.17178	pg	2	15	
gamma-Chlordane	A	11087	11201	10.00000	10.10275	pg	1	15	
alpha-Chlordane	A	10673	10886	10.00000	10.19988	pg	2	15	
4,4'-DDE	A	10537	10570	20.00000	20.06315	pg	0	15	
Endosulfan I	A	10128	10378	10.00000	10.24673	pg	2	15	
Dieldrin	A	10899	10989	20.00000	20.16547	pg	1	15	
Endrin	A	8637.5	8332.4	20.00000	19.29357	pg	-4	15	
4,4'-DDD	A	8683.1	9241.4	20.00000	21.28598	pg	6	15	
Endosulfan II	A	9314.0	9536.6	20.00000	20.47790	pg	2	15	
4,4'-DDT	A	8352.9	7210.8	20.00000	17.26533	pg	-14	15	
Methoxychlor	A	3681.9	3327.2	100.0000	90.36612	pg	-10	15	
Endosulfan sulfate	A	8314.1	8475.5	20.00000	20.38841	pg	2	15	
Endrin ketone	A	10314	10814	20.00000	20.96881	pg	5	15	
TCMX	A	9191.2	9165.4	20.00000	19.94375	pg	0	15	
Decachlorobiphenyl	A	6490.2	6590.6	20.00000	20.30942	pg	2	15	
alpha-BHC	B	10184	10322	10.00000	10.13565	pg	1	15	
gamma-BHC	B	9205.2	9521.7	10.00000	10.34384	pg	3	15	
beta-BHC	B	4069.1	4398.6	10.00000	10.80951	pg	8	15	
delta-BHC	B	9048.9	9657.0	10.00000	10.67201	pg	7	15	
Heptachlor	B	6311.0	6563.6	10.00000	10.40033	pg	4	15	
Aldrin	B	8642.9	9148.7	10.00000	10.58521	pg	6	15	
Heptachlor epoxide	B	7991.6	8632.9	10.00000	10.80246	pg	8	15	
gamma-Chlordane	B	8205.8	8872.9	10.00000	10.81298	pg	8	15	
alpha-Chlordane	B	7973.5	8680.6	10.00000	10.88684	pg	9	15	
4,4'-DDE	B	7918.8	8574.7	20.00000	21.65632	pg	8	15	
Endosulfan I	B	7514.9	8183.3	10.00000	10.88953	pg	9	15	
Dieldrin	B	8095.3	8849.3	20.00000	21.86262	pg	9	15	
Endrin	B	6507.9	7200.9	20.00000	22.12964	pg	11	15	
4,4'-DDD	B	6451.1	7376.3	20.00000	22.86856	pg	14	15	
Endosulfan II	B	7016.4	7848.3	20.00000	22.37150	pg	12	15	
4,4'-DDT	B	5483.1	5504.4	20.00000	20.07784	pg	0	15	
Methoxychlor	B	2529.0	2655.2	100.0000	104.9896	pg	5	15	
Endosulfan sulfate	B	6281.2	6944.9	20.00000	22.11327	pg	11	15	
Endrin ketone	B	7493.8	8460.9	20.00000	22.58116	pg	13	15	
TCMX	B	6828.8	6465.1	20.00000	18.93479	pg	-5	15	
Decachlorobiphenyl	B	4724.7	5260.2	20.00000	22.26669	pg	11	15	
Average EPA 8081A	A		(count=22)				3	15	
Average EPA 8081A	B		(count=22)				8	15	

PERFORMANCE EVALUATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114052 Run Name: Injected: 14-OCT-2004 19:09
Filename: 287_052 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	373797.31
Endrin aldehyde	A	50499.97
Endrin ketone	A	80896

Endrin Breakdown %: 26 P ***
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	795969
4,4'-DDE	A	3385
4,4'-DDD	A	65683.31

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	315874.09
Endrin aldehyde	B	15261.96
Endrin ketone	B	25175

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	530882.67
4,4'-DDE	B	2190.5
4,4'-DDD	B	39298.25

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804414114054
Calnum : 804412857001
Standards: 04WS1632

Run Name : ccv
Filename : 287_054
Caldate : 12-OCT-2004

IDF : 1.0
Injected : 14-OCT-2004 20:11
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	16016	20.00000	22.42919	pg	12	15	
gamma-BHC	A	12975	14440	20.00000	22.25758	pg	11	15	
beta-BHC	A	5584.0	6251.4	20.00000	22.39013	pg	12	15	
delta-BHC	A	12934	14579	20.00000	22.54404	pg	13	15	
Heptachlor	A	11292	11729	20.00000	20.77405	pg	4	15	
Aldrin	A	11818	13304	20.00000	22.51564	pg	13	15	
Heptachlor epoxide	A	10970	12412	20.00000	22.62751	pg	13	15	
gamma-Chlordane	A	11087	12682	20.00000	22.87621	pg	14	15	
alpha-Chlordane	A	10673	12157	20.00000	22.77982	pg	14	15	
4,4'-DDE	A	10537	12466	40.00000	47.32563	pg	18	15	c+ ***
Endosulfan I	A	10128	11583	20.00000	22.87232	pg	14	15	
Dieldrin	A	10899	12865	40.00000	47.21660	pg	18	15	c+ ***
Endrin	A	8637.5	8669.5	40.00000	40.14795	pg	0	15	
4,4'-DDD	A	8683.1	10803	40.00000	49.76404	pg	24	15	c+ ***
Endosulfan II	A	9314.0	10912	40.00000	46.86415	pg	17	15	c+ ***
4,4'-DDT	A	8352.9	8043.7	40.00000	38.51910	pg	-4	15	
Methoxychlor	A	3681.9	3806.9	200.0000	206.7901	pg	3	15	
Endosulfan sulfate	A	8314.1	9605.1	40.00000	46.21141	pg	16	15	c+ ***
Endrin ketone	A	10314	12684	40.00000	49.19259	pg	23	15	c+ ***
TCMX	A	9191.2	10157	40.00000	44.20168	pg	11	15	
Decachlorobiphenyl	A	6490.2	7308.7	40.00000	45.04461	pg	13	15	
alpha-BHC	B	10184	10459	20.00000	20.53857	pg	3	15	
gamma-BHC	B	9205.2	9520.2	20.00000	20.68448	pg	3	15	
beta-BHC	B	4069.1	4175.5	20.00000	20.52248	pg	3	15	
delta-BHC	B	9048.9	9544.5	20.00000	21.09529	pg	5	15	
Heptachlor	B	6311.0	6550.3	20.00000	20.75843	pg	4	15	
Aldrin	B	8642.9	9142.0	20.00000	21.15485	pg	6	15	
Heptachlor epoxide	B	7991.6	8533.2	20.00000	21.35529	pg	7	15	
gamma-Chlordane	B	8205.8	8933.5	20.00000	21.77369	pg	9	15	
alpha-Chlordane	B	7973.5	8697.8	20.00000	21.81684	pg	9	15	
4,4'-DDE	B	7918.8	8755.9	40.00000	44.22816	pg	11	15	
Endosulfan I	B	7514.9	8155.3	20.00000	21.70433	pg	9	15	
Dieldrin	B	8095.3	8956.0	40.00000	44.25281	pg	11	15	
Endrin	B	6507.9	6994.6	40.00000	42.99105	pg	7	15	
4,4'-DDD	B	6451.1	7403.7	40.00000	45.90663	pg	15	15	
Endosulfan II	B	7016.4	7753.9	40.00000	44.20439	pg	11	15	
4,4'-DDT	B	5483.1	5598.1	40.00000	40.83861	pg	2	15	
Methoxychlor	B	2529.0	2714.6	200.0000	214.6800	pg	7	15	
Endosulfan sulfate	B	6281.2	6880.9	40.00000	43.81896	pg	10	15	
Endrin ketone	B	7493.8	8379.2	40.00000	44.72633	pg	12	15	
TCMX	B	6828.8	6878.8	40.00000	40.29262	pg	1	15	
Decachlorobiphenyl	B	4724.7	4967.5	40.00000	42.05553	pg	5	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804386835 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 24-SEP-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
005	268_005	PEM				24-SEP-2004 15:15	1.0			1			1	
006	268_006	CCV	pest_4			24-SEP-2004 15:44	1.0						2	
007	268_007	X	ccv			24-SEP-2004 16:14	1.0						2	
008	268_008	X	ccv			24-SEP-2004 16:43	1.0						2	
010	268_010	X	hex			24-SEP-2004 19:13	1.0							
011	268_011	ICAL	level_1			24-SEP-2004 19:42	1.0						3	
012	268_012	ICAL	level_2			24-SEP-2004 20:12	1.0						4	
013	268_013	ICAL	level_3			24-SEP-2004 20:41	1.0						5	
014	268_014	ICAL	level_4			24-SEP-2004 21:11	1.0						2	
015	268_015	ICAL	level_5			24-SEP-2004 21:40	1.0						6	
016	268_016	ICAL	level_6			24-SEP-2004 22:10	1.0						7	
017	268_017	ICAL	level_7			24-SEP-2004 22:39	1.0						8	
018	268_018	X	hex			24-SEP-2004 23:08	1.0							
020	268_020	ICV	icv			25-SEP-2004 00:07	1.0	1		1			9	
021	268_021	X				25-SEP-2004 00:37	1.0			1			9	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1628 4=04WS1629 5=04WS1630 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234402633 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 05-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	279_001	X	hex			05-OCT-2004 13:32	1.0							
003	279_003	CCV	pest_4			05-OCT-2004 14:33	1.0						1	
005	279_005	X	ccv			05-OCT-2004 17:07	1.0						1	
006	279_006	X	ccv			05-OCT-2004 17:38	1.0						1	
014	279_014	PEM				05-OCT-2004 22:14	1.0			1			2	1:DDT44=175.844
016	279_016	ICAL	pest_1			05-OCT-2004 23:14	1.0						3	
017	279_017	ICAL	pest_2			05-OCT-2004 23:45	1.0						4	
018	279_018	ICAL	pest_3			06-OCT-2004 00:15	1.0						5	
019	279_019	ICAL	pest_4			06-OCT-2004 00:45	1.0						1	
020	279_020	ICAL	pest_5			06-OCT-2004 01:15	1.0						6	
021	279_021	ICAL	pest_6			06-OCT-2004 01:45	1.0						7	
022	279_022	ICAL	pest_7			06-OCT-2004 02:16	1.0						8	
024	279_024	ICV				06-OCT-2004 03:17	1.0			1			9	
025	279_025	X	icv			06-OCT-2004 03:47	1.0						9	

56

Stds used: 1=04WS1632 2=04WS1614 3=04WS1628 4=04WS1629 5=04WS1630 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234403952 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 06-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	280_002	PEM				06-OCT-2004 12:32	1.0	1.0			1	1	
003	280_003	CCV	pest_4			06-OCT-2004 13:03	1.0	1.0	3		1	2	
004	280_004	X	ccv			06-OCT-2004 13:34	1.0					2	
006	280_006	BLANK	QC266927	95180	Water	06-OCT-2004 18:10	1.0	0.01	1		1		
007	280_007	BS	QC266928	95180	Water	06-OCT-2004 18:41	1.0	0.01	3	3	1		
008	280_008	BSD	QC266929	95180	Water	06-OCT-2004 19:11	1.0	0.01	3	2	1		
009	280_009	SAMPLE	175026-020	95180	Water	06-OCT-2004 19:42	1.0	0.01111	1		1		
010	280_010	SAMPLE	175026-032	95180	Water	06-OCT-2004 20:12	1.0	0.01333	1		1		
011	280_011	SAMPLE	175046-003	95180	Water	06-OCT-2004 20:43	1.0	0.009615	1		1		
012	280_012	SAMPLE	175046-012	95180	Water	06-OCT-2004 21:13	1.0	0.009524	1		1		
013	280_013	SAMPLE	175046-013	95180	Water	06-OCT-2004 21:43	1.0	0.009615	1		1		
014	280_014	SAMPLE	175046-015	95180	Water	06-OCT-2004 22:13	1.0	0.009524	1		1		
015	280_015	SAMPLE	175066-013	95180	Water	06-OCT-2004 22:44	1.0	0.01124	1		1		
017	280_017	PEM				07-OCT-2004 12:12	1.0	1.0			1	1	
018	280_018	CCV	pest_5			07-OCT-2004 12:43	1.0	1.0	2		1	3	
019	280_019	X	ccv			07-OCT-2004 13:13	1.0					3	
020	280_020	X	ccv			07-OCT-2004 13:44	1.0					4	
021	280_021	X	pem			07-OCT-2004 14:14	1.0					1	
023	280_023	SAMPLE	175069-006	95180	Water	07-OCT-2004 15:15	1.0	0.009709			1		
024	280_024	SAMPLE	175069-007	95180	Water	07-OCT-2004 15:46	1.0	0.01			1		
025	280_025	SAMPLE	175069-009	95180	Water	07-OCT-2004 16:16	1.0	0.009804			1		
026	280_026	SAMPLE	175001-001	95180	Water	07-OCT-2004 16:46	2.0	0.01	1	1	1		
027	280_027	SAMPLE	175022-001	95180	Water	07-OCT-2004 17:17	10.0	0.009901			1		
028	280_028	SAMPLE	175022-002	95180	Water	07-OCT-2004 17:47	10.0	0.009901	1		1		
029	280_029	BLANK	QC267106	95228	Soil	07-OCT-2004 19:01	1.0	0.6562			1		
030	280_030	LCS	QC267107	95228	Soil	07-OCT-2004 19:32	1.0	0.6618	3		1		
031	280_031	MS	QC267108	95228	Soil	08-OCT-2004 09:24	1.0	0.664	3		1		
032	280_032	MSD	QC267109	95228	Soil	08-OCT-2004 09:54	1.0	0.6729	3		1		
034	280_034	PEM				08-OCT-2004 10:55	1.0	1.0			1	1	
035	280_035	CCV	pest_4			08-OCT-2004 11:26	1.0	1.0	3		1	2	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1633 4=04WS1630

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234403952 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 06-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
038	280_038	SAMPLE	175103-001	95228	Soil	08-OCT-2004 13:04	1.0	0.6676			1		
039	280_039	SAMPLE	175103-003	95228	Soil	08-OCT-2004 13:35	1.0	0.6596			1		
040	280_040	SAMPLE	175103-002	95228	Soil	08-OCT-2004 14:05	2.0	0.6601			1		
041	280_041	SAMPLE	175103-004	95228	Soil	08-OCT-2004 15:29	2.0	0.6707			1		
042	280_042	SAMPLE	175102-001	95228	Soil	08-OCT-2004 15:59	1.0	0.6702	1	1	1		
043	280_043	SAMPLE	175102-002	95228	Soil	08-OCT-2004 16:29	1.0	0.6676	1	1	1		
044	280_044	SAMPLE	175102-003	95228	Soil	08-OCT-2004 16:59	1.0	0.6658	1	1	1		
045	280_045	SAMPLE	175102-004	95228	Soil	08-OCT-2004 17:30	1.0	0.6645	1	1	1		
046	280_046	SAMPLE	175032-008	95196	Soil	08-OCT-2004 18:00	1.0	0.6711	1		1		
047	280_047	SAMPLE	174942-011	95228	Soil	08-OCT-2004 18:31	1.0	0.6618	1		1		
049	280_049	PEM				08-OCT-2004 19:32	1.0	1.0			1	1	
050	280_050	CCV	pest_5			08-OCT-2004 20:02	1.0	1.0	3		1	3	
055	280_055	BLANK	QC266980	95196	Soil	08-OCT-2004 23:04	1.0	0.6676			1		
056	280_056	LCS	QC266981	95196	Soil	08-OCT-2004 23:34	1.0	0.6658	3		1		
058	280_058	LCS	QC267273	95271	Soil	09-OCT-2004 00:35	1.0	0.6605	3		1		
059	280_059	SAMPLE	174957-005	95196	Miscel	09-OCT-2004 01:05	1.0	0.6729			1		
060	280_060	SAMPLE	174957-015	95196	Miscel	09-OCT-2004 01:36	1.0	0.664	1		1		
061	280_061	SAMPLE	175141-002	95271	Soil	09-OCT-2004 02:06	1.0	0.6575			1		
062	280_062	SAMPLE	175141-003	95271	Soil	09-OCT-2004 02:36	1.0	0.6676		1	1		
063	280_063	SAMPLE	175141-004	95271	Soil	09-OCT-2004 03:06	1.0	0.6609		3	1		
064	280_064	SAMPLE	175141-006	95271	Soil	09-OCT-2004 03:36	1.0	0.6761		1	1		
066	280_066	X	pem			09-OCT-2004 04:37	1.0	1.0			1	1	
067	280_067	X	pest_4			09-OCT-2004 05:08	1.0	1.0			1	2	
068	280_068	CCV	pest_4			09-OCT-2004 05:38	1.0	1.0	3		1	2	
069	280_069	PEM				09-OCT-2004 06:08	1.0	1.0			1	1	
072	280_072	?SAMPLE	174141-010	95271		09-OCT-2004 07:40	1.0						
073	280_073	?SAMPLE	174141-005	95271		09-OCT-2004 08:10	1.0						
083	280_083	X	pem			09-OCT-2004 13:15	1.0	1.0			1	1	
084	280_084	CCV	pest_5			09-OCT-2004 13:45	1.0	1.0	6		1	3	
087	280_087	PEM				09-OCT-2004 15:17	1.0	1.0			1	1	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1633 4=04WS1630

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234403952 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 06-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
100	280_100	PEM				09-OCT-2004 21:52	1.0					1	
101	280_101	CCV	pest_4			09-OCT-2004 22:22	1.0					2	
106	280_106	SAMPLE	174988-007	95271	Soil	10-OCT-2004 00:53	1.0						
115	280_115	X	pem			10-OCT-2004 05:25	1.0	1.0			1	1	
116	280_116	CCV	pest_5			10-OCT-2004 05:55	1.0	1.0	6		1	3	
119	280_119	PEM				10-OCT-2004 07:26	1.0	1.0			1	1	

59

Stds used: 1=04WS1614 2=04WS1632 3=04WS1633 4=04WS1630

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804410063 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 10-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
002	284_002	PEM				10-OCT-2004 18:23	1.0	1.0			1	1	
003	284_003	X	pest_4			10-OCT-2004 19:32	1.0					2	
004	284_004	CCV	ccv			10-OCT-2004 20:02	1.0	1.0	2		1	2	
005	284_005	X	pem			10-OCT-2004 20:32	1.0				1	1	
007	284_007	BLANK	QC267272	95271	Soil	10-OCT-2004 21:32	1.0	0.6743	2		1		
008	284_008	BLANK	QC267354	95289	Soil	10-OCT-2004 22:02	1.0	0.6658	2		1		
009	284_009	LCS	QC267273	95271	Soil	10-OCT-2004 22:32	1.0	0.6605	2		1		
010	284_010	LCS	QC267355	95289	Soil	10-OCT-2004 23:02	1.0	0.6734	2		1		
011	284_011	SAMPLE	174988-001	95271	Soil	10-OCT-2004 23:32	1.0	0.6614	2		1		
012	284_012	SAMPLE	174988-002	95271	Soil	11-OCT-2004 00:02	1.0	0.6645	2		1		
013	284_013	SAMPLE	174988-003	95271	Soil	11-OCT-2004 00:32	1.0	0.6752	2		1		
014	284_014	SAMPLE	174988-004	95271	Soil	11-OCT-2004 01:02	1.0	0.6631	2		1		
015	284_015	SAMPLE	174988-005	95271	Soil	11-OCT-2004 01:33	1.0	0.6601	2		1		
016	284_016	MSS	174988-006	95271	Soil	11-OCT-2004 02:03	1.0	0.668	2		1		
017	284_017	X	hex			11-OCT-2004 02:33	1.0						
018	284_018	PEM				11-OCT-2004 03:03	1.0	1.0			1	1	
019	284_019	CCV	pest_3			11-OCT-2004 03:33	1.0	1.0	1		1	3	
020	284_020	X	ccv			11-OCT-2004 04:03	1.0					3	
021	284_021	X	ccv			11-OCT-2004 04:33	1.0					4	
024	284_024	SAMPLE	174988-007	95271	Soil	11-OCT-2004 06:03	1.0	0.6566	5		1		
025	284_025	SAMPLE	174988-008	95271	Soil	11-OCT-2004 06:33	1.0	0.6671	5		1		
026	284_026	SAMPLE	174988-010	95271	Soil	11-OCT-2004 07:03	1.0	0.6711	5	1	1		
027	284_027	SAMPLE	174988-011	95271	Soil	11-OCT-2004 07:33	1.0	0.6653	5		1		
028	284_028	SAMPLE	174988-012	95271	Soil	11-OCT-2004 08:03	1.0	0.6605	5		1		
029	284_029	SAMPLE	174988-013	95271	Soil	11-OCT-2004 08:33	1.0	0.6592	5		1		
030	284_030	SAMPLE	174988-014	95271	Soil	11-OCT-2004 09:03	1.0	0.6609	5		1		
032	284_032	SAMPLE	174988-015	95289	Soil	11-OCT-2004 10:03	1.0	0.6562	5		1		
033	284_033	SAMPLE	174988-016	95289	Soil	11-OCT-2004 10:33	1.0	0.6729	5	1	1		
035	284_035	PEM				11-OCT-2004 11:34	1.0	1.0			1	1	
036	284_036	CCV	pest_4			11-OCT-2004 12:04	1.0	1.0	5		1	2	
037	284_037	X	ccv			11-OCT-2004 12:47	1.0					2	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804410063 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 10-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
038	284_038	SAMPLE	175141-007	95271	Soil	11-OCT-2004 13:45	1.0	0.6601	5	1	1		
039	284_039	SAMPLE	175141-010	95271	Soil	11-OCT-2004 14:15	1.0	0.672	5	2	1		
040	284_040	SAMPLE	175141-005	95271	Soil	11-OCT-2004 14:45	20.0	0.6627	5		1		
041	284_041	SAMPLE	174988-020	95289	Soil	11-OCT-2004 15:15	1.0	0.6566	5		1		
042	284_042	SAMPLE	174988-021	95289	Soil	11-OCT-2004 15:45	1.0	0.6698	5		1		
043	284_043	SAMPLE	174988-022	95289	Soil	11-OCT-2004 16:15	1.0	0.6698	5		1		
044	284_044	SAMPLE	174988-023	95289	Soil	11-OCT-2004 16:46	1.0	0.6596	5		1		
045	284_045	SAMPLE	174988-024	95289	Soil	11-OCT-2004 17:16	1.0	0.6671	5		1		
046	284_046	SAMPLE	174988-025	95289	Soil	11-OCT-2004 17:46	1.0	0.6757	5		1		
047	284_047	SAMPLE	174988-026	95289	Soil	11-OCT-2004 20:12	1.0	0.6658	5		1		
049	284_049	PEM				11-OCT-2004 21:12	1.0	1.0			1	1	
050	284_050	X	pest_3			11-OCT-2004 21:42	1.0					3	
051	284_051	X	ccv			11-OCT-2004 22:12	1.0					3	
052	284_052	CCV	ccv			11-OCT-2004 22:42	1.0	1.0	1		1	4	
053	284_053	X	pem			11-OCT-2004 23:12	1.0				1	1	
055	284_055	SAMPLE	175015-006	95134	Soil	12-OCT-2004 00:13	2.0	0.6766	2	4	1		
056	284_056	SAMPLE	174988-017	95289	Soil	12-OCT-2004 00:43	1.0	0.6649	2		1		
057	284_057	SAMPLE	174988-018	95289	Soil	12-OCT-2004 01:13	1.0	0.6579	2		1		
058	284_058	SAMPLE	174988-019	95289	Soil	12-OCT-2004 01:43	1.0	0.6729	2		1		
059	284_059	MS	QC267356	95289	Soil	12-OCT-2004 02:13	1.0	0.6658	2		1		
060	284_060	MSD	QC267357	95289	Soil	12-OCT-2004 02:43	1.0	0.6614	2		1		
061	284_061	MS	QC267274	95271	Soil	12-OCT-2004 03:13	1.0	0.6601	2		1		
062	284_062	MSD	QC267275	95271	Soil	12-OCT-2004 03:43	1.0	0.6689	2		1		
063	284_063	MSS	174988-009	95289	Soil	12-OCT-2004 04:13	1.0	0.6689	2		1		
065	284_065	PEM				12-OCT-2004 05:13	1.0	1.0			1	1	
066	284_066	CCV	pest_4			12-OCT-2004 05:43	1.0	1.0	2		1	2	
067	284_067	X	ccv			12-OCT-2004 06:14	1.0					2	
068	284_068	X	pem			12-OCT-2004 06:44	1.0				1	1	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804412857 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 12-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
009	286_009	CCV	pest_4			12-OCT-2004 16:57	1.0						1	
010	286_010	X	ccv			12-OCT-2004 17:54	1.0						1	
018	286_018	X	hex			12-OCT-2004 22:03	1.0							
019	286_019	PEM				12-OCT-2004 22:33	1.0			1			2	
021	286_021	ICAL	pest_1			12-OCT-2004 23:34	1.0						3	
022	286_022	ICAL	pest_2			13-OCT-2004 00:04	1.0						4	
023	286_023	ICAL	pest_3			13-OCT-2004 00:34	1.0						5	
024	286_024	ICAL	pest_4			13-OCT-2004 01:04	1.0						1	
025	286_025	ICAL	pest_5			13-OCT-2004 01:35	1.0						6	
026	286_026	ICAL	pest_6			13-OCT-2004 02:05	1.0						7	
027	286_027	ICAL	pest_7			13-OCT-2004 02:36	1.0						8	
029	286_029	ICV				13-OCT-2004 03:36	1.0			1			9	
030	286_030	X	icv			13-OCT-2004 04:07	1.0						9	

62

Stds used: 1=04WS1632 2=04WS1614 3=04WS1628 4=04WS1629 5=04WS1630 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804414114 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 13-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	287_002	PEM				13-OCT-2004 13:54	1.0	1.0			1	1	
003	287_003	CCV	pest_4			13-OCT-2004 14:24	1.0	1.0			1	2	
004	287_004	X	ccv			13-OCT-2004 14:54	1.0					2	
005	287_005	X	ccv			13-OCT-2004 15:49	1.0					2	
006	287_006	X	pem			13-OCT-2004 16:20	1.0	1.0			1	1	
008	287_008	BLANK	QC267744	95382	Soil	13-OCT-2004 18:41	1.0	0.6605			1		
009	287_009	LCS	QC267745	95382	Soil	13-OCT-2004 19:11	1.0	0.657			1		
010	287_010	SAMPLE	175141-001	95382	Soil	13-OCT-2004 19:42	1.0	0.6592			1		
011	287_011	SAMPLE	175141-009	95382	Soil	13-OCT-2004 20:12	1.0	0.6596			1		
012	287_012	SAMPLE	175190-001	95382	Soil	13-OCT-2004 20:42	1.0	0.6645			1		
013	287_013	SAMPLE	175190-002	95382	Soil	13-OCT-2004 21:13	1.0	0.6702			1		
014	287_014	SAMPLE	175190-003	95382	Soil	13-OCT-2004 21:43	10.0	0.6662			1		
015	287_015	SAMPLE	175190-004	95382	Soil	13-OCT-2004 22:13	1.0	0.6588			1		
016	287_016	SAMPLE	175201-001	95382	Soil	13-OCT-2004 22:44	1.0	0.6748			1		
017	287_017	SAMPLE	175201-002	95382	Soil	13-OCT-2004 23:14	1.0	0.6662			1		
019	287_019	PEM				14-OCT-2004 00:15	1.0	1.0			1	1	
020	287_020	X	pest_3			14-OCT-2004 00:45	1.0	1.0			1	3	
021	287_021	CCV	ccv			14-OCT-2004 01:15	1.0	1.0			1	3	
022	287_022	X	ccv			14-OCT-2004 01:46	1.0					4	
023	287_023	X	pem			14-OCT-2004 02:16	1.0					1	
025	287_025	MSS	174942-010	95228	Soil	14-OCT-2004 03:17	1.0	0.668		1	1		
027	287_027	PEM				14-OCT-2004 04:18	1.0	1.0			1	1	
028	287_028	X	pest_4			14-OCT-2004 04:48	1.0					2	
029	287_029	CCV	ccv			14-OCT-2004 05:18	1.0	1.0			1	2	
030	287_030	X	pem			14-OCT-2004 05:49	1.0					1	
032	287_032	SAMPLE	175135-049	95382	Soil	14-OCT-2004 06:49	20.0	0.6601			1		
033	287_033	SAMPLE	175135-052	95382	Soil	14-OCT-2004 07:20	20.0	0.6562			1		
035	287_035	PEM				14-OCT-2004 08:20	1.0	1.0			1	1	
036	287_036	X	pest_3			14-OCT-2004 08:51	1.0					3	
037	287_037	CCV	ccv			14-OCT-2004 09:21	1.0	1.0			1	3	
038	287_038	X	ccv			14-OCT-2004 09:51	1.0					4	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

SEQUENCE SUMMARY FOR 175141 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804414114 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 13-OCT-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	287_039	X	pem			14-OCT-2004 10:22	1.0					1	
041	287_041	BLANK	QC267836	95382	Soil	14-OCT-2004 13:17	1.0	0.6562			1		
042	287_042	LCS	QC267837	95382	Soil	14-OCT-2004 13:47	1.0	0.6579	7		1		
043	287_043	SAMPLE	175031-022	95382	Soil	14-OCT-2004 14:18	1.0	0.6707			1		
044	287_044	SAMPLE	175031-023	95382	Soil	14-OCT-2004 14:48	1.0	0.6658			1		
045	287_045	SAMPLE	175066-002	95382	Soil	14-OCT-2004 15:18	1.0	0.6583			1		
046	287_046	MSS	175066-003	95382	Soil	14-OCT-2004 15:49	1.0	0.6671			1		
047	287_047	SAMPLE	175066-006	95382	Soil	14-OCT-2004 16:19	1.0	0.6671		4	1		
048	287_048	SAMPLE	175066-007	95382	Soil	14-OCT-2004 16:50	1.0	0.6601		4	1		
049	287_049	MS	QC267746	95382	Soil	14-OCT-2004 17:20	1.0	0.6725	7	1	1		
050	287_050	MSD	QC267747	95382	Soil	14-OCT-2004 17:51	1.0	0.657	7		1		
052	287_052	PEM				14-OCT-2004 19:09	1.0	1.0			1	1	
053	287_053	X	pest_4			14-OCT-2004 19:40	1.0					2	
054	287_054	CCV	ccv			14-OCT-2004 20:11	1.0	1.0	7		1	2	
055	287_055	X	pem			14-OCT-2004 20:41	1.0					1	
057	287_057	BLANK	QC268055	95454	Soil	14-OCT-2004 21:43	1.0	0.6614	2		1		
058	287_058	LCS	QC268056	95454	Soil	14-OCT-2004 22:13	1.0	0.6605	9		1		
059	287_059	SAMPLE	175231-001	95454	Soil	14-OCT-2004 22:44	1.0	0.6676	2		1		
060	287_060	SAMPLE	175231-002	95454	Soil	15-OCT-2004 01:42	1.0	0.6725	2		1		
061	287_061	SAMPLE	175231-003	95454	Soil	15-OCT-2004 02:42	1.0	0.6689	2		1		
062	287_062	SAMPLE	175231-004	95454	Soil	15-OCT-2004 08:39	1.0	0.6671	2		1		
063	287_063	SAMPLE	175066-012	95382	Soil	15-OCT-2004 09:10	1.0	0.6609	2		1		
064	287_064	SAMPLE	175200-001	95382	Miscel	15-OCT-2004 09:40	1.0	0.6752	2	3	1		
065	287_065	SAMPLE	175200-002	95382	Miscel	15-OCT-2004 10:11	1.0	0.6627	2	3	1		
066	287_066	SAMPLE	175200-003	95382	Miscel	15-OCT-2004 10:41	1.0	0.668	2		1		
068	287_068	PEM				15-OCT-2004 11:50	1.0	1.0			1	1	
069	287_069	CCV	pest_3			15-OCT-2004 12:20	1.0	1.0	3		1	3	
070	287_070	X	ccv			15-OCT-2004 12:52	1.0					3	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1630 4=04WS1633

Reporting Summary for 175141 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175141-001	alpha-BHC	GC23	B	10/13/04 19:42
175141-001	beta-BHC	GC23	B	10/13/04 19:42
175141-001	gamma-BHC	GC23	B	10/13/04 19:42
175141-001	delta-BHC	GC23	B	10/13/04 19:42
175141-001	Heptachlor	GC23	B	10/13/04 19:42
175141-001	Aldrin	GC23	B	10/13/04 19:42
175141-001	Heptachlor epoxide	GC23	B	10/13/04 19:42
175141-001	Endosulfan I	GC23	B	10/13/04 19:42
175141-001	Dieldrin	GC23	B	10/13/04 19:42
175141-001	4,4'-DDE	GC23	B	10/13/04 19:42
175141-001	Endrin	GC23	B	10/13/04 19:42
175141-001	Endosulfan II	GC23	B	10/13/04 19:42
175141-001	Endosulfan sulfate	GC23	B	10/13/04 19:42
175141-001	4,4'-DDD	GC23	B	10/13/04 19:42
175141-001	Endrin ketone	GC23	B	10/13/04 19:42
175141-001	4,4'-DDT	GC23	B	10/13/04 19:42
175141-001	Chlordane (Technical)	GC23	A	10/13/04 19:42
175141-001	alpha-Chlordane	GC23	B	10/13/04 19:42
175141-001	gamma-Chlordane	GC23	B	10/13/04 19:42
175141-001	Methoxychlor	GC23	B	10/13/04 19:42
175141-001	Toxaphene	GC23	A	10/13/04 19:42
175141-001	TCMX	GC23	B	10/13/04 19:42
175141-001	Decachlorobiphenyl	GC23	B	10/13/04 19:42
175141-002	alpha-BHC	GC16	B	10/09/04 02:06
175141-002	beta-BHC	GC16	B	10/09/04 02:06
175141-002	gamma-BHC	GC16	B	10/09/04 02:06
175141-002	delta-BHC	GC16	B	10/09/04 02:06
175141-002	Heptachlor	GC16	B	10/09/04 02:06
175141-002	Aldrin	GC16	B	10/09/04 02:06
175141-002	Heptachlor epoxide	GC16	B	10/09/04 02:06
175141-002	Endosulfan I	GC16	B	10/09/04 02:06
175141-002	Dieldrin	GC16	B	10/09/04 02:06
175141-002	4,4'-DDE	GC16	B	10/09/04 02:06
175141-002	Endrin	GC16	B	10/09/04 02:06
175141-002	Endosulfan II	GC16	B	10/09/04 02:06
175141-002	Endosulfan sulfate	GC16	B	10/09/04 02:06
175141-002	4,4'-DDD	GC16	B	10/09/04 02:06
175141-002	Endrin ketone	GC16	B	10/09/04 02:06
175141-002	4,4'-DDT	GC16	B	10/09/04 02:06
175141-002	Chlordane (Technical)	GC16	B	10/09/04 02:06
175141-002	alpha-Chlordane	GC16	B	10/09/04 02:06
175141-002	gamma-Chlordane	GC16	B	10/09/04 02:06
175141-002	Methoxychlor	GC16	B	10/09/04 02:06
175141-002	Toxaphene	GC16	B	10/09/04 02:06
175141-002	TCMX	GC16	B	10/09/04 02:06
175141-002	Decachlorobiphenyl	GC16	B	10/09/04 02:06
175141-003	alpha-BHC	GC16	B	10/09/04 02:36
175141-003	beta-BHC	GC16	B	10/09/04 02:36
175141-003	gamma-BHC	GC16	B	10/09/04 02:36
175141-003	delta-BHC	GC16	B	10/09/04 02:36
175141-003	Heptachlor	GC16	B	10/09/04 02:36
175141-003	Aldrin	GC16	B	10/09/04 02:36

Reporting Summary for 175141 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175141-003	Heptachlor epoxide	GC16	B	10/09/04 02:36
175141-003	Endosulfan I	GC16	B	10/09/04 02:36
175141-003	Dieldrin	GC16	B	10/09/04 02:36
175141-003	4,4'-DDE	GC16	B	10/09/04 02:36
175141-003	Endrin	GC16	B	10/09/04 02:36
175141-003	Endosulfan II	GC16	B	10/09/04 02:36
175141-003	Endosulfan sulfate	GC16	B	10/09/04 02:36
175141-003	4,4'-DDD	GC16	B	10/09/04 02:36
175141-003	Endrin ketone	GC16	B	10/09/04 02:36
175141-003	4,4'-DDT	GC16	B	10/09/04 02:36
175141-003	Chlordane (Technical)	GC16	B	10/09/04 02:36
175141-003	alpha-Chlordane	GC16	B	10/09/04 02:36
175141-003	gamma-Chlordane	GC16	B	10/09/04 02:36
175141-003	Methoxychlor	GC16	B	10/09/04 02:36
175141-003	Toxaphene	GC16	B	10/09/04 02:36
175141-003	TCMX	GC16	B	10/09/04 02:36
175141-003	Decachlorobiphenyl	GC16	B	10/09/04 02:36
175141-004	alpha-BHC	GC16	B	10/09/04 03:06
175141-004	beta-BHC	GC16	B	10/09/04 03:06
175141-004	gamma-BHC	GC16	B	10/09/04 03:06
175141-004	delta-BHC	GC16	B	10/09/04 03:06
175141-004	Heptachlor	GC16	B	10/09/04 03:06
175141-004	Aldrin	GC16	B	10/09/04 03:06
175141-004	Heptachlor epoxide	GC16	B	10/09/04 03:06
175141-004	Endosulfan I	GC16	B	10/09/04 03:06
175141-004	Dieldrin	GC16	B	10/09/04 03:06
175141-004	4,4'-DDE	GC16	B	10/09/04 03:06
175141-004	Endrin	GC16	B	10/09/04 03:06
175141-004	Endosulfan II	GC16	B	10/09/04 03:06
175141-004	Endosulfan sulfate	GC16	B	10/09/04 03:06
175141-004	4,4'-DDD	GC16	B	10/09/04 03:06
175141-004	Endrin ketone	GC16	B	10/09/04 03:06
175141-004	4,4'-DDT	GC16	B	10/09/04 03:06
175141-004	Chlordane (Technical)	GC16	B	10/09/04 03:06
175141-004	alpha-Chlordane	GC16	B	10/09/04 03:06
175141-004	gamma-Chlordane	GC16	B	10/09/04 03:06
175141-004	Methoxychlor	GC16	B	10/09/04 03:06
175141-004	Toxaphene	GC16	B	10/09/04 03:06
175141-004	TCMX	GC16	B	10/09/04 03:06
175141-004	Decachlorobiphenyl	GC16	B	10/09/04 03:06
175141-005	alpha-BHC	GC23	A	10/11/04 14:45
175141-005	beta-BHC	GC23	A	10/11/04 14:45
175141-005	gamma-BHC	GC23	A	10/11/04 14:45
175141-005	delta-BHC	GC23	A	10/11/04 14:45
175141-005	Heptachlor	GC23	A	10/11/04 14:45
175141-005	Aldrin	GC23	A	10/11/04 14:45
175141-005	Heptachlor epoxide	GC23	A	10/11/04 14:45
175141-005	Endosulfan I	GC23	A	10/11/04 14:45
175141-005	Dieldrin	GC23	A	10/11/04 14:45
175141-005	4,4'-DDE	GC23	A	10/11/04 14:45
175141-005	Endrin	GC23	A	10/11/04 14:45
175141-005	Endosulfan II	GC23	B	10/11/04 14:45

Reporting Summary for 175141 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175141-005	Endosulfan sulfate	GC23	B	10/11/04 14:45
175141-005	4,4'-DDD	GC23	A	10/11/04 14:45
175141-005	Endrin ketone	GC23	A	10/11/04 14:45
175141-005	4,4'-DDT	GC23	A	10/11/04 14:45
175141-005	Chlordane (Technical)	GC23	A	10/11/04 14:45
175141-005	alpha-Chlordane	GC23	B	10/11/04 14:45
175141-005	gamma-Chlordane	GC23	B	10/11/04 14:45
175141-005	Methoxychlor	GC23	A	10/11/04 14:45
175141-005	Toxaphene	GC23	A	10/11/04 14:45
175141-005	TCMX	GC23	B	10/11/04 14:45
175141-005	Decachlorobiphenyl	GC23	B	10/11/04 14:45
175141-006	alpha-BHC	GC16	B	10/09/04 03:36
175141-006	beta-BHC	GC16	B	10/09/04 03:36
175141-006	gamma-BHC	GC16	B	10/09/04 03:36
175141-006	delta-BHC	GC16	B	10/09/04 03:36
175141-006	Heptachlor	GC16	B	10/09/04 03:36
175141-006	Aldrin	GC16	B	10/09/04 03:36
175141-006	Heptachlor epoxide	GC16	B	10/09/04 03:36
175141-006	Endosulfan I	GC16	B	10/09/04 03:36
175141-006	Dieldrin	GC16	B	10/09/04 03:36
175141-006	4,4'-DDE	GC16	B	10/09/04 03:36
175141-006	Endrin	GC16	B	10/09/04 03:36
175141-006	Endosulfan II	GC16	B	10/09/04 03:36
175141-006	Endosulfan sulfate	GC16	B	10/09/04 03:36
175141-006	4,4'-DDD	GC16	B	10/09/04 03:36
175141-006	Endrin ketone	GC16	B	10/09/04 03:36
175141-006	4,4'-DDT	GC16	B	10/09/04 03:36
175141-006	Chlordane (Technical)	GC16	B	10/09/04 03:36
175141-006	alpha-Chlordane	GC16	B	10/09/04 03:36
175141-006	gamma-Chlordane	GC16	B	10/09/04 03:36
175141-006	Methoxychlor	GC16	B	10/09/04 03:36
175141-006	Toxaphene	GC16	B	10/09/04 03:36
175141-006	TCMX	GC16	B	10/09/04 03:36
175141-006	Decachlorobiphenyl	GC16	B	10/09/04 03:36
175141-007	alpha-BHC	GC23	A	10/11/04 13:45
175141-007	beta-BHC	GC23	A	10/11/04 13:45
175141-007	gamma-BHC	GC23	A	10/11/04 13:45
175141-007	delta-BHC	GC23	A	10/11/04 13:45
175141-007	Heptachlor	GC23	A	10/11/04 13:45
175141-007	Aldrin	GC23	A	10/11/04 13:45
175141-007	Heptachlor epoxide	GC23	A	10/11/04 13:45
175141-007	Endosulfan I	GC23	A	10/11/04 13:45
175141-007	Dieldrin	GC23	A	10/11/04 13:45
175141-007	4,4'-DDE	GC23	A	10/11/04 13:45
175141-007	Endrin	GC23	A	10/11/04 13:45
175141-007	Endosulfan II	GC23	B	10/11/04 13:45
175141-007	Endosulfan sulfate	GC23	B	10/11/04 13:45
175141-007	4,4'-DDD	GC23	A	10/11/04 13:45
175141-007	Endrin ketone	GC23	A	10/11/04 13:45
175141-007	4,4'-DDT	GC23	A	10/11/04 13:45
175141-007	Chlordane (Technical)	GC23	A	10/11/04 13:45
175141-007	alpha-Chlordane	GC23	B	10/11/04 13:45

Reporting Summary for 175141 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175141-007	gamma-Chlordane	GC23	B	10/11/04 13:45
175141-007	Methoxychlor	GC23	A	10/11/04 13:45
175141-007	Toxaphene	GC23	A	10/11/04 13:45
175141-007	TCMX	GC23	B	10/11/04 13:45
175141-007	Decachlorobiphenyl	GC23	B	10/11/04 13:45
175141-009	alpha-BHC	GC23	B	10/13/04 20:12
175141-009	beta-BHC	GC23	B	10/13/04 20:12
175141-009	gamma-BHC	GC23	B	10/13/04 20:12
175141-009	delta-BHC	GC23	B	10/13/04 20:12
175141-009	Heptachlor	GC23	B	10/13/04 20:12
175141-009	Aldrin	GC23	B	10/13/04 20:12
175141-009	Heptachlor epoxide	GC23	B	10/13/04 20:12
175141-009	Endosulfan I	GC23	B	10/13/04 20:12
175141-009	Dieldrin	GC23	B	10/13/04 20:12
175141-009	4,4'-DDE	GC23	B	10/13/04 20:12
175141-009	Endrin	GC23	B	10/13/04 20:12
175141-009	Endosulfan II	GC23	B	10/13/04 20:12
175141-009	Endosulfan sulfate	GC23	B	10/13/04 20:12
175141-009	4,4'-DDD	GC23	B	10/13/04 20:12
175141-009	Endrin ketone	GC23	B	10/13/04 20:12
175141-009	4,4'-DDT	GC23	B	10/13/04 20:12
175141-009	Chlordane (Technical)	GC23	A	10/13/04 20:12
175141-009	alpha-Chlordane	GC23	B	10/13/04 20:12
175141-009	gamma-Chlordane	GC23	B	10/13/04 20:12
175141-009	Methoxychlor	GC23	B	10/13/04 20:12
175141-009	Toxaphene	GC23	A	10/13/04 20:12
175141-009	TCMX	GC23	B	10/13/04 20:12
175141-009	Decachlorobiphenyl	GC23	B	10/13/04 20:12
175141-010	alpha-BHC	GC23	A	10/11/04 14:15
175141-010	beta-BHC	GC23	A	10/11/04 14:15
175141-010	gamma-BHC	GC23	A	10/11/04 14:15
175141-010	delta-BHC	GC23	A	10/11/04 14:15
175141-010	Heptachlor	GC23	A	10/11/04 14:15
175141-010	Aldrin	GC23	A	10/11/04 14:15
175141-010	Heptachlor epoxide	GC23	A	10/11/04 14:15
175141-010	Endosulfan I	GC23	A	10/11/04 14:15
175141-010	Dieldrin	GC23	A	10/11/04 14:15
175141-010	4,4'-DDE	GC23	A	10/11/04 14:15
175141-010	Endrin	GC23	A	10/11/04 14:15
175141-010	Endosulfan II	GC23	B	10/11/04 14:15
175141-010	Endosulfan sulfate	GC23	B	10/11/04 14:15
175141-010	4,4'-DDD	GC23	A	10/11/04 14:15
175141-010	Endrin ketone	GC23	A	10/11/04 14:15
175141-010	4,4'-DDT	GC23	A	10/11/04 14:15
175141-010	Chlordane (Technical)	GC23	A	10/11/04 14:15
175141-010	alpha-Chlordane	GC23	B	10/11/04 14:15
175141-010	gamma-Chlordane	GC23	B	10/11/04 14:15
175141-010	Methoxychlor	GC23	A	10/11/04 14:15
175141-010	Toxaphene	GC23	A	10/11/04 14:15
175141-010	TCMX	GC23	B	10/11/04 14:15
175141-010	Decachlorobiphenyl	GC23	B	10/11/04 14:15

Reporting Summary for 175141 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC267272	alpha-BHC	GC23	A	10/10/04 21:32
QC267272	beta-BHC	GC23	A	10/10/04 21:32
QC267272	gamma-BHC	GC23	A	10/10/04 21:32
QC267272	delta-BHC	GC23	A	10/10/04 21:32
QC267272	Heptachlor	GC23	A	10/10/04 21:32
QC267272	Aldrin	GC23	A	10/10/04 21:32
QC267272	Heptachlor epoxide	GC23	A	10/10/04 21:32
QC267272	Endosulfan I	GC23	A	10/10/04 21:32
QC267272	Dieldrin	GC23	A	10/10/04 21:32
QC267272	4,4'-DDE	GC23	A	10/10/04 21:32
QC267272	Endrin	GC23	A	10/10/04 21:32
QC267272	Endosulfan II	GC23	A	10/10/04 21:32
QC267272	Endosulfan sulfate	GC23	A	10/10/04 21:32
QC267272	4,4'-DDD	GC23	A	10/10/04 21:32
QC267272	Endrin ketone	GC23	A	10/10/04 21:32
QC267272	4,4'-DDT	GC23	A	10/10/04 21:32
QC267272	Chlordane (Technical)	GC23	A	10/10/04 21:32
QC267272	alpha-Chlordane	GC23	A	10/10/04 21:32
QC267272	gamma-Chlordane	GC23	A	10/10/04 21:32
QC267272	Methoxychlor	GC23	A	10/10/04 21:32
QC267272	Toxaphene	GC23	A	10/10/04 21:32
QC267272	TCMX	GC23	A	10/10/04 21:32
QC267272	Decachlorobiphenyl	GC23	A	10/10/04 21:32
QC267273	gamma-BHC	GC16	B	10/09/04 00:35
QC267273	Heptachlor	GC16	B	10/09/04 00:35
QC267273	Aldrin	GC16	B	10/09/04 00:35
QC267273	Dieldrin	GC16	B	10/09/04 00:35
QC267273	Endrin	GC16	B	10/09/04 00:35
QC267273	4,4'-DDT	GC16	B	10/09/04 00:35
QC267273	TCMX	GC16	B	10/09/04 00:35
QC267273	Decachlorobiphenyl	GC16	B	10/09/04 00:35
QC267274	gamma-BHC	GC23	A	10/12/04 03:13
QC267274	Heptachlor	GC23	A	10/12/04 03:13
QC267274	Aldrin	GC23	A	10/12/04 03:13
QC267274	Dieldrin	GC23	A	10/12/04 03:13
QC267274	Endrin	GC23	A	10/12/04 03:13
QC267274	4,4'-DDT	GC23	A	10/12/04 03:13
QC267274	TCMX	GC23	A	10/12/04 03:13
QC267274	Decachlorobiphenyl	GC23	A	10/12/04 03:13
QC267275	gamma-BHC	GC23	A	10/12/04 03:43
QC267275	Heptachlor	GC23	A	10/12/04 03:43
QC267275	Aldrin	GC23	A	10/12/04 03:43
QC267275	Dieldrin	GC23	A	10/12/04 03:43
QC267275	Endrin	GC23	A	10/12/04 03:43
QC267275	4,4'-DDT	GC23	A	10/12/04 03:43
QC267275	TCMX	GC23	A	10/12/04 03:43
QC267275	Decachlorobiphenyl	GC23	A	10/12/04 03:43
QC267744	alpha-BHC	GC23	B	10/13/04 18:41
QC267744	beta-BHC	GC23	B	10/13/04 18:41
QC267744	gamma-BHC	GC23	B	10/13/04 18:41

Reporting Summary for 175141 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC267744	delta-BHC	GC23	B	10/13/04 18:41
QC267744	Heptachlor	GC23	B	10/13/04 18:41
QC267744	Aldrin	GC23	B	10/13/04 18:41
QC267744	Heptachlor epoxide	GC23	B	10/13/04 18:41
QC267744	Endosulfan I	GC23	B	10/13/04 18:41
QC267744	Dieldrin	GC23	B	10/13/04 18:41
QC267744	4,4'-DDE	GC23	B	10/13/04 18:41
QC267744	Endrin	GC23	B	10/13/04 18:41
QC267744	Endosulfan II	GC23	B	10/13/04 18:41
QC267744	Endosulfan sulfate	GC23	B	10/13/04 18:41
QC267744	4,4'-DDD	GC23	B	10/13/04 18:41
QC267744	Endrin ketone	GC23	B	10/13/04 18:41
QC267744	4,4'-DDT	GC23	B	10/13/04 18:41
QC267744	Chlordane (Technical)	GC23	A	10/13/04 18:41
QC267744	alpha-Chlordane	GC23	B	10/13/04 18:41
QC267744	gamma-Chlordane	GC23	B	10/13/04 18:41
QC267744	Methoxychlor	GC23	B	10/13/04 18:41
QC267744	Toxaphene	GC23	A	10/13/04 18:41
QC267744	TCMX	GC23	B	10/13/04 18:41
QC267744	Decachlorobiphenyl	GC23	B	10/13/04 18:41
QC267745	gamma-BHC	GC23	B	10/13/04 19:11
QC267745	Heptachlor	GC23	B	10/13/04 19:11
QC267745	Aldrin	GC23	B	10/13/04 19:11
QC267745	Dieldrin	GC23	B	10/13/04 19:11
QC267745	Endrin	GC23	B	10/13/04 19:11
QC267745	4,4'-DDT	GC23	B	10/13/04 19:11
QC267745	TCMX	GC23	B	10/13/04 19:11
QC267745	Decachlorobiphenyl	GC23	B	10/13/04 19:11
QC267746	gamma-BHC	GC23	B	10/14/04 17:20
QC267746	Heptachlor	GC23	B	10/14/04 17:20
QC267746	Aldrin	GC23	B	10/14/04 17:20
QC267746	Dieldrin	GC23	B	10/14/04 17:20
QC267746	Endrin	GC23	B	10/14/04 17:20
QC267746	4,4'-DDT	GC23	B	10/14/04 17:20
QC267746	TCMX	GC23	B	10/14/04 17:20
QC267746	Decachlorobiphenyl	GC23	B	10/14/04 17:20
QC267747	gamma-BHC	GC23	B	10/14/04 17:51
QC267747	Heptachlor	GC23	B	10/14/04 17:51
QC267747	Aldrin	GC23	B	10/14/04 17:51
QC267747	Dieldrin	GC23	B	10/14/04 17:51
QC267747	Endrin	GC23	B	10/14/04 17:51
QC267747	4,4'-DDT	GC23	B	10/14/04 17:51
QC267747	TCMX	GC23	B	10/14/04 17:51
QC267747	Decachlorobiphenyl	GC23	B	10/14/04 17:51

Curtis & Tompkins Laboratories Sample Preparation Summary 08-OCT-2004 13:08

Batch Number : 95271
Date Extracted: 07-OCT-2004
Extracted by : Brook N. Buswell
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343B
Spike #2 ID : 04WS1551C
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174988-001			Tetra Tech EMI	Soil	15.12	g	10	0.661376	1		.01	0		8081	3620B	
174988-002			Tetra Tech EMI	Soil	15.05	g	10	0.664452	1		.01	0		8081	3620B	
174988-003			Tetra Tech EMI	Soil	14.81	g	10	0.675219	1		.01	0		8081	3620B	
174988-004			Tetra Tech EMI	Soil	15.08	g	10	0.663130	1		.01	0		8081	3620B	
174988-005			Tetra Tech EMI	Soil	15.15	g	10	0.660066	1		.01	0		8081	3620B	mss
174988-006			Tetra Tech EMI	Soil	14.97	g	10	0.668003	1		.01	0		8081	3620B	
174988-007			Tetra Tech EMI	Soil	15.23	g	10	0.656599	1		.01	0		8081	3620B	
174988-008			Tetra Tech EMI	Soil	14.99	g	10	0.667111	1		.01	0		8081	3620B	
174988-010			Tetra Tech EMI	Soil	14.9	g	10	0.671141	1		.01	0		8081	3620B	
174988-011			Tetra Tech EMI	Soil	15.03	g	10	0.665336	1		.01	0		8081	3620B	
174988-012			Tetra Tech EMI	Soil	15.14	g	10	0.660502	1		.01	0		8081	3620B	
174988-013			Tetra Tech EMI	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	
174988-014			Tetra Tech EMI	Soil	15.13	g	10	0.660939	1		.01	0		8081	3620B	
175141-002			Treadwell & Rollo	Soil	15.21	g	10	0.657462	1		.01	0		8081	3620B	
175141-003			Treadwell & Rollo	Soil	14.98	g	10	0.667557	1		.01	0		8081	3620B	
175141-004			Treadwell & Rollo	Soil	15.13	g	10	0.660939	1		.01	0		8081	3620B	
175141-005			Treadwell & Rollo	Soil	15.09	g	10	0.662691	1		.01	0		8081	3620B	
175141-006			Treadwell & Rollo	Soil	14.79	g	10	0.676133	1		.01	0		8081	3620B	
175141-007			Treadwell & Rollo	Soil	15.15	g	10	0.660066	1		.01	0		8081	3620B	
175141-010			Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.01	0		8081	3620B	
QC267272	MB			Soil	14.83	g	10	0.674309	1		.01	0		8081	3620B	
QC267273	LCS			Soil	15.14	g	10	0.660502	1		.01	.5		8081	3620B	
QC267274	MS	of 174988-006		Soil	15.15	g	10	0.660066	1		.01	.5		8081	3620B	
QC267275	MSD	of 174988-006		Soil	14.95	g	10	0.668896	1		.01	.5		8081	3620B	

Prep Chemist: _____ Reviewed By: _____ Date: 10/8/04

Relinquished By: _____ Received By: _____ Date: 10/8/04

Curtis & Tompkins, Ltd.

8081 SOIL PREP LOG

BK 1965

Page 54

LIMS Batch No: 95271

LIMS Analysis: 8081

Extracted by: BB

Date Extracted: 10/7/04

Extraction Method:

- ☑ EPA 3550b Sonication
- ☑ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:

- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
174988-001	15.12	10.0	X	
-002	15.05			
-003	14.81			
-004	15.08			
-005	15.15			
-006	14.97			MSS
-007	15.23			
-008	14.99			
-010	14.90			
-011	15.03			
-012	15.14			
-013	15.17			
-014	15.13			
267272 → MB ~~K30132~~ BB 10/7/04	14.83	10.0		
LCS QC267273	15.14			
MS 4	15.15	10.0		
MSD 5	14.95			
175141-002	15.21 ~~15.17~~ BB 10/7/04	10.0		
-003	14.98 ~~15.21~~			
-004	15.13 ~~14.98~~			
-005	15.09 ~~15.13~~			residue in vial
-006	14.79 ~~15.09~~			
-007	15.15			
-010	14.88			

JDM 10/8/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	F30132	BB 10/7/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex 040112	
0.010 mL of surrogate solution was added to all samples	04WS13438	
BB 10/7/04 0.5 mL of spike solution was added to all spikes	04WS1551 C	
1:1 CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44179) was added to all BB 10/7/04	~~BB~~ EM44233, EM44179	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted		
ASE Cellulose Filters used:	WHATMAN D25	
Soxhlets on at:	NA	
Soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	N/A	JDM 10/8/04
Exchanged 2x with Hexane	C2917	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume		
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil		

BB 10/7/04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

Jessie Mae 10/8/04

Reviewed by / Date

B

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: JDM
Cleanup Date: 10/8/04

Benchbook # **BK 1991**
Page 35

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
175141-002	95271	1.0	1.0	
-003				
-004				
-005				
-006				
-007				
-010				
MB QC267272				
LCS 73				
MS 74				
MSD 75				
174988-001				
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-010				
-011				
-012				
-013				
-014				

JDM 10/8/04

☒ Extracts were cleaned up using Florisil cartridges
Florisil cartridges/ columns rinsed 3x with Hexane
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone
Concentrated to volumes as noted above

	Mfg & Lot # / Time / Program	Initials / Date
	Resprep 303221-AZ	JDM 10/8/04
Hexane	CL917	
Acetone	EM44179	

Jessie Mee 10/8/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

10/8/04

PROJECT Soil Aliquot

Notebook No. 2015

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175141-001A	15.17	8081	
-002	15.21		
-003	14.98		
-004	15.13		
-005	15.09		
-006	14.79		
-007	15.15		
-009	15.16		
-010	14.88		
175144-001A	50.05	TEHM	
-002A	50.29		
175143-001A	50.16	TEHM	
175141-001A	14.86	PCB	
-009A	15.09		
175141-001A	MC 10/7 ~~29.88~~ 30.48	8210	
-009A	29.88		
175141-001A	50.15	TEHM	
-009A	49.97		
175092-001A	50.31	TEH	
-002	50.09		
-003	49.84		
-004	49.78		
-005	50.04		
-006	49.95		
-007	49.96		
-008	49.87		
-009	49.78		
-010	50.08		
-011	50.22		

Continued on Page

Read and Understood By

Michelle Cantu 10/7/04

Signed Date Signed Date

SAMPLE ID	WEIGHT (g)	~~ANALYSIS~~	COMMENTS
174988-020A	50.46	TCH	
-021	~~50.0~~ 49.99 (dle 10/1)		
-022	50.07		
-023	49.69		
-024	50.00		
-025	50.25		
-026	49.87		
MS	49.92		174988-006A
MS	50.14		174988-009A
MSD	50.44		174988-006A
MSD	50.22		174988-009A
LCS	50.08		P030132
LCS	50.36		
MB	49.97		
MB	49.69		
174988-001A	~~50~~ 15.12 (MD 10/1)	8081	
-002A	15.05		
-003	14.81		
-004	15.08		
-005	15.15		
-006	14.97		MSS
-007	15.23		
-008	14.99		
~~-009~~ (NOT IN BATCH)	15.02		
-010	14.90		
-011	15.03		
-012	15.14		
-013	15.17		
-014	15.13		
~~-015~~	~~15.24~~		
~~-016~~	~~14.86~~		
~~-017~~	~~15.04~~		

Not in batch JDM 10/8/04

Continued on Page 82

Read and Understood By

Michelle Curtis 10/1/04
Signed Date

Signed Date

PROJECT Soil Aliquot

Notebook No. BK1999

Continued From Page 81

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
~~174988-018A~~	~~15.20~~	8081	
~~-019A~~	~~14.86~~		
~~-020A~~	~~15.23~~		
	Not in batch JOM 10/8/04		
MS	15.15		174988-020
MSD	14.95		↓
LCS	15.14		F030132
MB	14.83		↓

Continued on Page

Read and Understood By

Michelle Cuta 10/1/04

Signed Date Signed Date

Curtis & Tompkins Laboratories Sample Preparation Summary 13-OCT-2004 10:47

Batch Number : 95382
Date Extracted: 12-OCT-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1343A
Spike #2 ID : 04WS1551C
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175031-022			URS Corporation	Soil	14.91	g	5	0.670691	2		.01	0		8081	3640A	GPC
175031-023			URS Corporation	Soil	15.02	g	5	0.665779	2		.01	0		8081	3640A	GPC
175066-002			URS Corporation	Soil	15.19	g	5	0.658328	2		.01	0		8081	3640A	GPC
175066-003			URS Corporation	Soil	14.99	g	5	0.667111	2		.01	0		8081	3640A	MSS, GPC
175066-006			URS Corporation	Soil	14.99	g	5	0.667111	2		.01	0		8081	3640A	GPC
175066-007			URS Corporation	Soil	15.15	g	5	0.660066	2		.01	0		8081	3640A	GPC
175066-012			URS Corporation	Soil	15.13	g	5	0.660939	2		.01	0		8081	3640A	GPC
175135-049			Northgate Environmental Manage	Soil	15.15	g	10	0.660066	1		.01	0		8081	3620B	
175135-052			Northgate Environmental Manage	Soil	15.24	g	10	0.656168	1		.01	0		8081	3620B	
175141-001			Treadwell & Rollo	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	
175141-009			Treadwell & Rollo	Soil	15.16	g	10	0.659631	1		.01	0		8081	3620B	
175190-001			URS Corporation	Soil	15.05	g	10	0.664452	1		.01	0		8081	3620B	
175190-002			URS Corporation	Soil	14.92	g	10	0.670241	1		.01	0		8081	3620B	
175190-003			URS Corporation	Soil	15.01	g	10	0.666223	1		.01	0		8081	3620B	
175190-004			URS Corporation	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
175200-001			URS Corporation	Miscell.	14.81	g	5	0.675219	2		.01	0		8081	3640A	GPC
175200-002			URS Corporation	Miscell.	15.09	g	5	0.662691	2		.01	0		8081	3640A	GPC
175200-003			URS Corporation	Miscell.	14.97	g	5	0.668003	2		.01	0		8081	3640A	GPC
175201-001			URS Corporation	Soil	14.82	g	10	0.674764	1		.01	0		8081	3620B	
175201-002			URS Corporation	Soil	15.01	g	10	0.666223	1		.01	0		8081	3620B	
QC267744	MB			Soil	15.14	g	10	0.660502	1		.01	0		8081	3620B	
QC267745	LCS			Soil	15.22	g	10	0.657030	1		.01	.5		8081	3620B	
QC267746	MS	of 175066-003		Soil	14.87	g	5	0.672495	2		.01	.5		8081	3640A	GPC
QC267747	MSD	of 175066-003		Soil	15.22	g	5	0.657030	2		.01	.5		8081	3640A	GPC
QC267836	MB			Soil	15.24	g	5	0.656168	2		.01	0		8081	3640A	GPC
QC267837	LCS			Soil	15.2	g	5	0.657895	2		.01	.5		8081	3640A	GPC

Prep Chemist: Jessie Mee

Reviewed By: [illegible] Date: 10/12/04

Relinquished By: [illegible]

Received By: [illegible] Date: 10/14/04

Curtis & Tompkins, Ltd. 8081 SOIL PREP LOG BK 1965

LIMS Batch No: 95382
LIMS Analysis: 8081
Extracted by: JDM
Date Extracted: 10/12/04

Extraction Method:
☐ EPA 3550b Sonication
☒ EPA 3545 PFE (Mth# 10)
☐ EPA 3540c Soxhlet
☐ _____

Cleanup Method:
☒ EPA 3640a GPC
☒ EPA 3620b Florisil
☐ _____

Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
175031-022A	~~15.04~~ SLC 10/12/04 14.91	10.0	X	
↓ -023 ↓	15.02			
175066-002B	15.19			
-003A	~~15.07~~ SLC 10/12/04 14.99			MSS
-006	14.99			
-007 ↓	15.15			
↓ -012B	15.13			
175135-049A	15.15			Florisil
↓ -052 ↓	15.24			
175141-001	15.17			
↓ -009	15.16			
175190-001	15.05			
-002	14.92			
-003	15.01			
↓ -004	15.18			
MB QC267744	15.14			Florisil
LCS 45	15.22			
MS 46	~~14.95~~ SLC 10/12/04 14.87			175066-003A
MSD ↓ 47	~~15.16~~ SLC 10/12/04 15.22			
175200-001	14.81			aliquoted 174957-001
-002	15.09			-011
↓ -003	14.97			↓ -012
175201-001	14.82			
↓ -002	15.01			
MB QC267836	15.24			
LCS ↓ 37	15.20			

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	F030132	JDM 10/12/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex 040112	
0.01 mL of surrogate solution was added to all samples	04US1343A	
0.5 mL of spike solution was added to all spikes	04US1551C	
1:1 CH_2Cl_2 (lot# EM44233):Acetone(lot# EM44211) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D28	
Soxhlets on at:	N/A	
Soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	N/A	SLC 10/12/04
Exchanged 2x with Hexane	✓ CC917	
Concentrated: ☐ to volumes as noted above ☒ to clean-up volume	✓	
Clean-up (if necessary): ☒ GPC (see GPC run log) ☒ Florisil	✓	↓

1:1

Jessie Mee 10/12/04
Extraction Chemist / Date

78
Continued from page —
Continued on page —

Carol Weese 10/12/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: CW

Cleanup Date: 10/13/04

Benchbook # **BK 1991**

Page 40

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
175135-049	95382	1.0	1.0	
↓ -052	↓	↓	↓	
175141-001				
↓ -009				
MBQC267744				
LCS ↓ 5	↓	↓	↓	

JRD 10/13/04

10/13/04 JRD

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	~~NA~~ Reprep 302281-AZ	CW 10/13/04
Florisil cartridges/ columns rinsed 3x with Hexane	CL917	↓
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	↓	↓
Acetone	EM44179	↓
Concentrated to volumes as noted above	✓	↓

10/13/04

Extraction Chemist / Date

Continued from page ___

Continued on page ___

10/13/04

Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: CEW

Cleanup Date: 10/13/04

Benchbook # **BK 1991**

Page 41

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
175201-001	95382	1.0	1.0	
-002				
175198-001				
-002				
-003				
-004				

JRD 10/13/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	RESTEK 302221-AZ	JRD 10/13/04
Florisil cartridges/ columns rinsed 3x with Hexane	CL917	JRD 10/13/04
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	✓	
Acetone	EM44179	
Concentrated to volumes as noted above	✓	✓

Cora Weese 10/13/04

JRD 10/13/04 Jennifer Dell 10/13/04

Extraction Chemist / Date

Continued from page —

Continued on page —

Jennifer Dell 10/13/04

Reviewed by / Date

Curtis & Tompkins, Ltd. **GPC Sequence Log** **EPA 3640A**

BK 1707 Page 54

LIMS Analysis: 8100/8081
Chemist: SAL
Date Started: 10/13/04

Program #: 8100/8081
Dump Time: 13:36/17:30
Collect Time: 16:24/11:36
Wash Time: 10:00/10:00

Tank Pressure (> 900psi): NA
Regulator Pressure (10-15psi): NA
Flow Rate(mL/min): 5.0
System Pressure (psi): 11

Station#	Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
1	MB QC 267996	95440	10.0		
2	MB 267836	95382		5.0	
3	LCS 267997	95440			
4	LCS 267837	95382		5.0	
5	MS 267998	95440			
6	MSD 267999	↓			
7	MS 267746	95382		5.0	
8	MSD 267747	↓			
9	~~175075-003~~, 175031-022	~~95440~~ 95382			
10	~~175066~~ 175031-023				
11	175066-002				
12	175066-003				MS
13	-006				
14	-007				
15	-012				
16	175200-001				
17	-002				
18	-003				
19	175075-003	95440			
20	175206-001				
21	-002				
22	-003				
23	-004				
24	-005				

	Mfg & Lot # / Time / Program	Initials / Date
Back-flushed Stations # ____ to # ____ with filtered CH_2Cl_2	NA	SAL 10/14/04
Reservoirs filled with CH_2Cl_2	EM44233	
Wash Program run on Stations # ____ to # ____	NA	
Wash Program used CH_2Cl_2		
Clean, dry GPC tubes rinsed with CH_2Cl_2		
Initial extracts filtered through 0.45um filters	WHATMAN 5055	
Concentrated to volumes as noted above		BB 10/14/04

10/13/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

10/14/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: BB

Cleanup Date: 10/14/04

Benchbook # **BK 1991**

Page 42

Sample #8367	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
7836→MB QC267744	95382	1.0	1.0	
LCS QC267837	BB 10/14/04			
MS 746				
MSD 747				
175031 - 022				
-023				
175066 - 002				
-003				MSS
-006				
-007				
-012				
175200 - 001				
-002				
-003				
			RB 10/14/04	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using Florisil cartridges	NA	BB 10/14/04
Florisil cartridges/ columns rinsed 3x with Hexane	CL917	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	✓	
Acetone	EM44179	
Concentrated to volumes as noted above	✓	

10/14/04

Preparation Chemist / Date

82

Continued from page ___

Continued on page ___

10/14/04

Reviewed by / Date

PROJECT Soil Aquot

Notebook No. BK 1999

Continued From Page

Sample ID	Weight (gs)	Analysis	Comments
			175059 - ↓
175059-021	15.19	8081	2, COMP 2A, 4A
-022	14.82		2, COMP 12A, 14A
-058	14.89		3, COMP 40A, 42A, 44A
-059	MK 10/5 ~~15.19~~ 18.24		2, COMP 51A, 53A
-061A	14.96		
-068A	14.93		3, COMP 24A, 26A, 27A
-073	14.83		2, COMP 32A, 34A
-074	14.87		
17503-001A	15.04	8081	
-002A	14.78		
-016	14.79		2, COMP A+B
-017	14.78		2, COMP A+B
-018A	14.91		
-019A	15.09		
~~-022A~~	~~15.04~~		
-023A	15.02		

Continued on Page

Read and Understood By

Signed

Date

100
PROJECT Jon Hueuot

Notebook No. PK1999

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175126-001A	49.88	TEH	
-002A	49.80		
-003A	49.83		
-004A	49.78		
175117-001A	30.33	8100	spc, aka 175012-001A
-002A	30.50		spc, aka -002A
175121-001D	50.05	TEHM	
-002D	50.04		
-003D	50.30		
-004D	50.06		
-005D	49.66		
-006D	50.24		
-007D	49.97		
-008D	50.39		
-009D	50.38		
-010D	49.92		MSS
-011D	50.31		
-012D	49.80		
-013D	50.10		
MS	50.08		175121-010D
MSD	50.11		
LCS	50.37		F030132
MB	50.43		
175066-002B	15.19	8081	
~~-003A~~	~~15.07~~	~~non homogenous~~	MSS
-006A	14.99		
-007A	15.15		
-012B	15.13		
~~MS~~	~~14.85~~	~~Cal 10/12/04~~	175066-003A
~~MSD~~	~~15.16~~		
MB	15.14		F030132
LCS	15.22		

Continued on Page

Read and Understood By

Signed: [illegible] Date: 11/7/04 Signed: Date:

2
PROJECT SOIL ALIQUOT

Notebook No. 2015

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175141-001	15.17	8081	
-002	15.21		
-003	14.98		
-004	15.13		
-005	15.09		
-006	14.79		
-007	15.15		
-009	15.16		
-010	14.88		

Continued on Page

Read and Understood By

Michelle Curtis 10/7/04

Signed Date Signed Date

MC 10/8

PROJECT ~~Michelle Curtis~~ SICAUQUOT Notebook No. 2015 5

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175135-049A	15.15	8081	
↓ -052	15.24	↓	
175135-049	14.83	8270	
↓ -052	14.88	↓	
175135-003		8270-SIM	COMP 1A + 2A
-006A			
-007A			
-009A			
-014			COMP 11A + 13A
-015A			
-017A			
-112A			
-115A			
-118A			
-121A			
-122A			
-130			COMP 128A + 129A
-142			COMP 136A, 139A, 141A
-143A			
-144A			
↓ -010		↓	COMP 106A + 100A

Continued on Page

Read and Understood By

Michelle Curtis 10/8/04

Signed Date Signed Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175190-001		8270	4 COMP A-D
-002			
-003			
-004			7 CORES A-G
MS			175190-
MSD			
LCS			FO30132
MB			
175015-001A	50.06	TEHM	reextract
175190-001	15.05	8081	4 COMP A-D
-002	14.92		
-003	15.01		7 CORES A-G
-004	15.18		
Mc 10/12 ~~MS~~			Mc 10/12 ~~175190-~~
Mc 10/12 ~~MSD~~			
Mc 10/12 ~~LCS~~			Mc 10/12 ~~FO30132~~
Mc 10/12 ~~MB~~			
175190-001		PCB	4 COMP A-D
-002			
-003			7 CORES A-G
-004			
MS			175190-
MSD			
LCS			FO30132
MB			
175190-001	50.33	TEHM	4 COMP A-D
-002	50.30		
-003	49.97		7 CORES A-G
-004	50.13		
Mc 10/12 ~~MS~~			Mc 10/12 ~~175190~~
Mc 10/12 ~~MSD~~			
Mc 10/12 ~~LCS~~			Mc 10/12 ~~FO30132~~
Mc 10/12 ~~MB~~			

Continued On Page

Read and Understood By

Michael D. Cook — Signed — 10/12/04 — Date — Signed — Date

PROJECT SOIL ALIQUOT

Notebook No. BK 2015

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175200-001A	14.81	8081	gpc, also 174957-001A
↓ -002A	15.09	↓	↓ -002A
↓ -003A	14.97	↓	↓ -012A
LCS	15.20	↓	↓
MB	15.24	↓	↓
175201-001	4.97	TEHM	4, COMP A-D
↓ -002	5.44	↓	↓
175204-001	4.52	8081	4, COMP A-D
↓ -002	5.01	↓	↓

Continued on Page

Read and Understood By

Michelle Cent 10/12/04

Signed Date Signed Date

PROJECT Soil Aliquot

Notebook No. BK 2015

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
175207-001A	50.10	TEH	
↓ -002A	49.98	↓	
175015-006A	15.10	8081	re-extract
175224-001A	30.07	8100	gpc, aliq 175143-001A
175031-022A	14.91	8081	
175086-003A	14.99	8081	
MS	14.87	↓	
MSD	15.22	↓	

Continued on Page

Read and Understood By

Michelle Curtis — Signed

10/12/04 — Date

Signed

Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14 A	GC14 B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 804414114010	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 287_010	Batchnum	: 95382	Injected	: 13-OCT-2004 19:42
IDF	: 1.0			Units	: ug/Kg

Prep: 15.17 g --> 10.0 ml = 0.6592 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B-287_00B	Flags
alpha-BHC	B	804412857001	ND						1.7		
beta-BHC	B	804412857001	ND						1.7		
gamma-BHC	B	804412857001	ND						1.7		
delta-BHC	B	804412857001	ND						1.7		
Heptachlor	B	804412857001	ND						1.7		
Aldrin	B	804412857001	ND						1.7		
Heptachlor epoxide	B	804412857001	ND						1.7		
Endosulfan I	B	804412857001	ND						1.7		
Dieldrin	B	804412857001	ND						3.3		
4,4'-DDE	B	804412857001	ND						3.3		
Endrin	B	804412857001	ND						3.3		
Endosulfan II	B	804412857001	ND						3.3		
Endosulfan sulfate	B	804412857001	ND						3.3		
4,4'-DDD	B	804412857001	ND						3.3		
Endrin ketone	B	804412857001	ND						3.3		
4,4'-DDT	B	804412857001	ND						3.3		
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	B	804412857001	ND						1.7		
gamma-Chlordane	B	804412857001	ND						1.7		
Methoxychlor	B	804412857001	ND						17		
Toxaphene	A		ND						59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804412857001	13.18	13.21	100	65-135	
Decachlorobiphenyl	B	804412857001	13.18	13.01	99	65-135	

Analyst: AL Date: 10/14/04 Reviewer: MM Date: 10/14/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-001,95382
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 10/14/04 12:53:26 PM
Data Acquisition Time : 10/13/04 7:42:02 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a010p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.622	194483.11	21.1596	0.659	1	13.95
alpha-BHC	9.239	2426.52	0.1699	0.659	1	0.11
gamma-BHC	10.132	3742.19	0.2884	0.659	1	0.19
beta-BHC	10.402	2719.71	0.4871	0.659	1	0.32
delta-BHC	10.887	2332.33	0.1803	0.659	1	0.12
Heptachlor	11.416	14676.53	1.2997	0.659	1	0.86
Aldrin	12.226	3158.60	0.2673	0.659	1	0.18
Heptachlor epoxide	13.835	2416.69	0.2203	0.659	1	0.15
gamma-Chlordane	14.147	9985.42	0.9006	0.659	1	0.59
alpha-Chlordane	14.479	1521.00	0.1425	0.659	1	0.09
4,4'-DDE	14.695	3217.33	0.3053	0.659	1	0.20
Endosulfan I	14.824	3054.73	0.3016	0.659	1	0.20
Dieldrin	15.434	7704.22	0.7069	0.659	1	0.47
Endrin	16.016	3138.94	0.3634	0.659	1	0.24
4,4'-DDD	16.197	2539.59	0.2925	0.659	1	0.19
Endosulfan II	16.570	3313.06	0.3557	0.659	1	0.23
4,4'-DDT	16.871	4432.19	0.5306	0.659	1	0.35
Endrin aldehyde	17.609	2492.00	0.3338	0.659	1	0.22
Methoxychlor	18.086	3563.33	0.9678	0.659	1	0.64
Endosulfan sulfate	18.701	3398.14	0.4087	0.659	1	0.27
Endrin ketone	19.367	2006.03	0.1945	0.659	1	0.13
Decachlorobiphenyl	21.403	122170.22	18.8239	0.659	1	12.41
		398491.92	48.7005			32.10

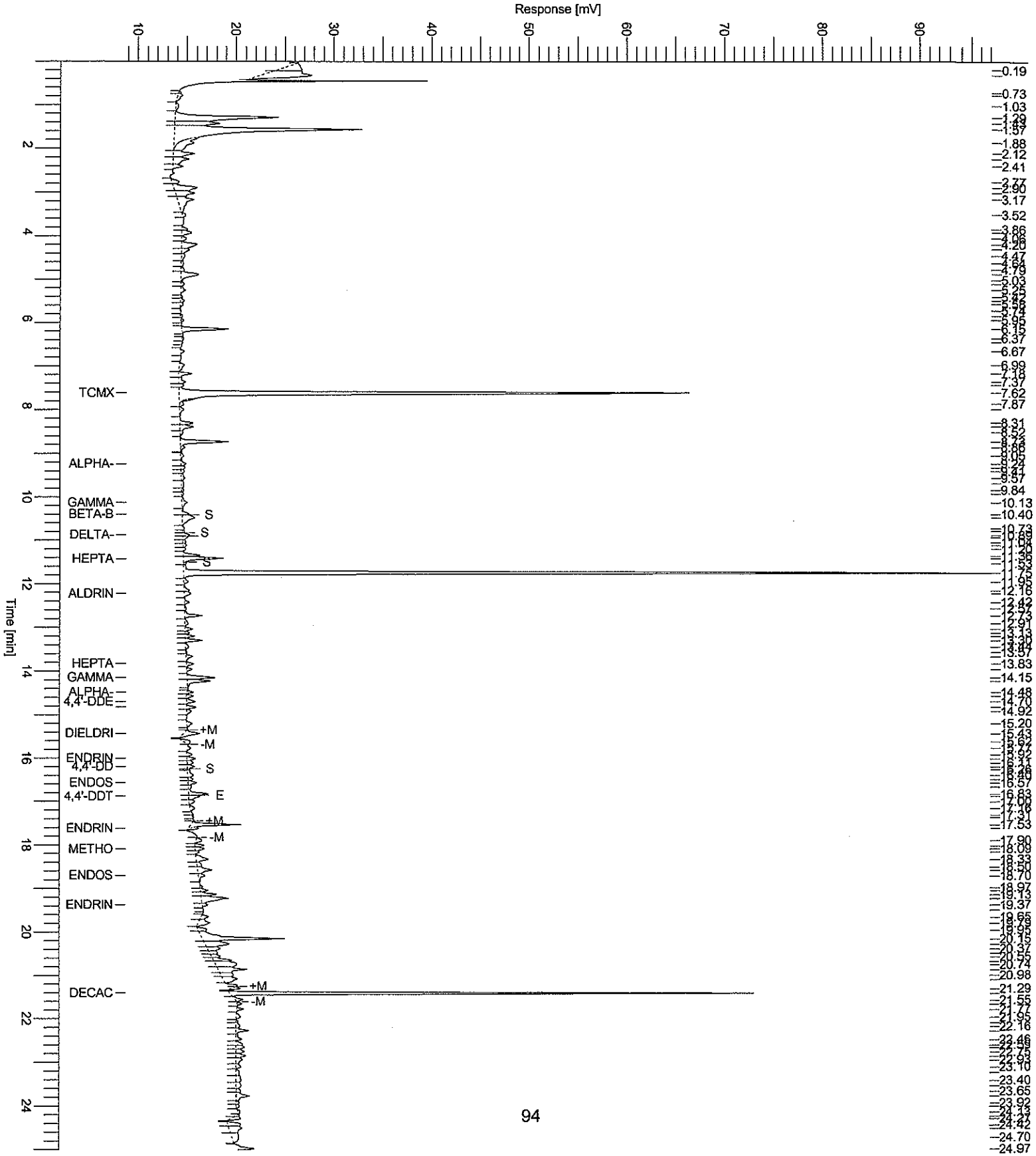
GP
10/14/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\287a010p.TX0

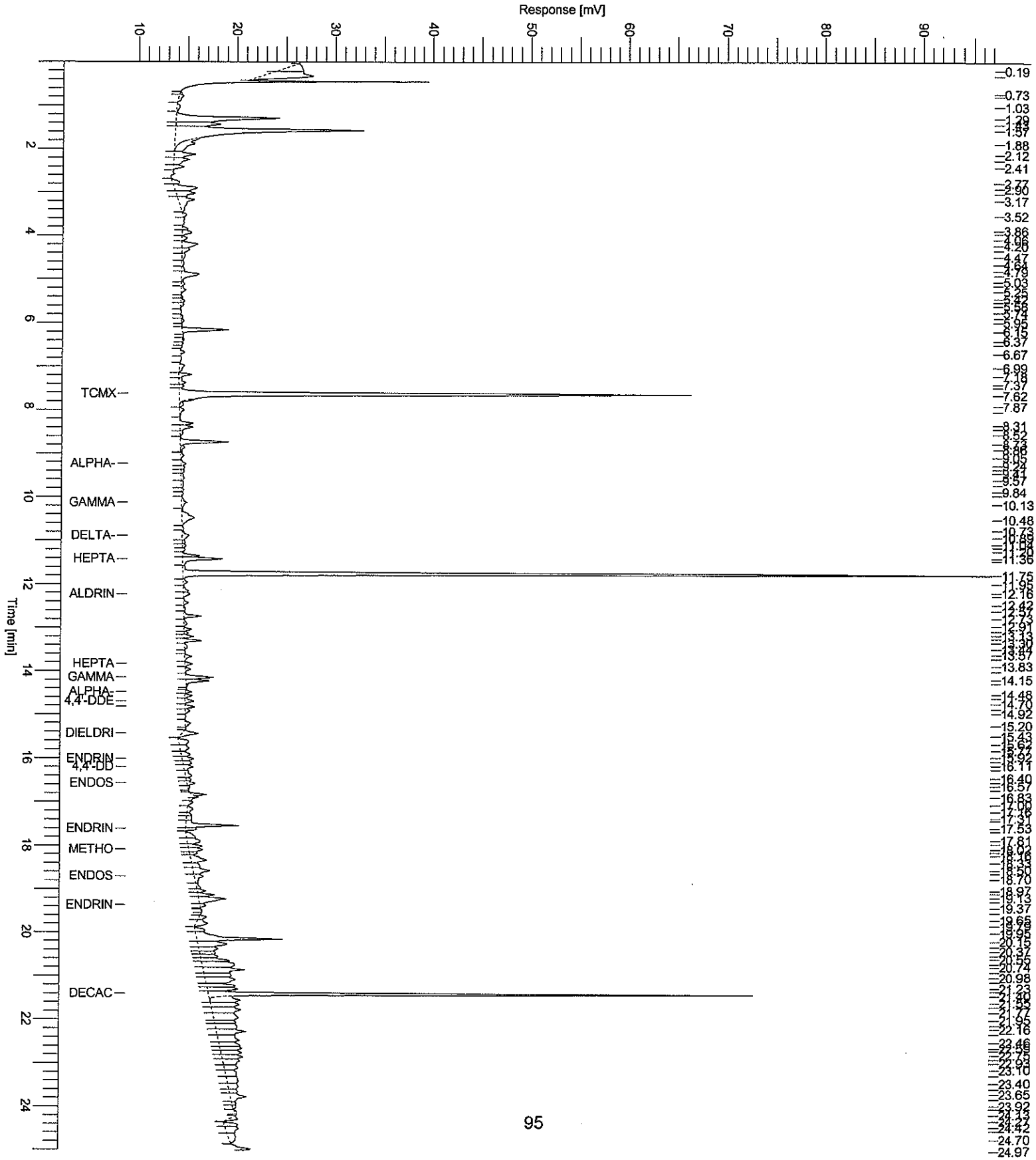
GC23 Rtx-CLPesticides

Sample Name : 175141-001,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHa\287a010.raw
Date : 10/14/04 12:53:43 PM
Method : Time of Injection: 10/13/04 7:42:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 8.82 mV High Point : 97.09 mV
Plot Offset: 8.82 mV Plot Scale: 88.3 mV



GC23 Rtx-CLPesticides

Sample Name : 175141-001,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHa\287a010.raw
Date : 10/14/04 10:45:34 AM
Method : gc23ins Time of Injection: 10/13/04 7:42:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 9.04 mV High Point : 97.09 mV
Scale Factor: 1.0 Plot Offset: 9.04 mV Plot Scale: 88.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-001,95382
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 10/14/04 12:49:45 PM
Data Acquisition Time : 10/13/04 7:42:02 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b010p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

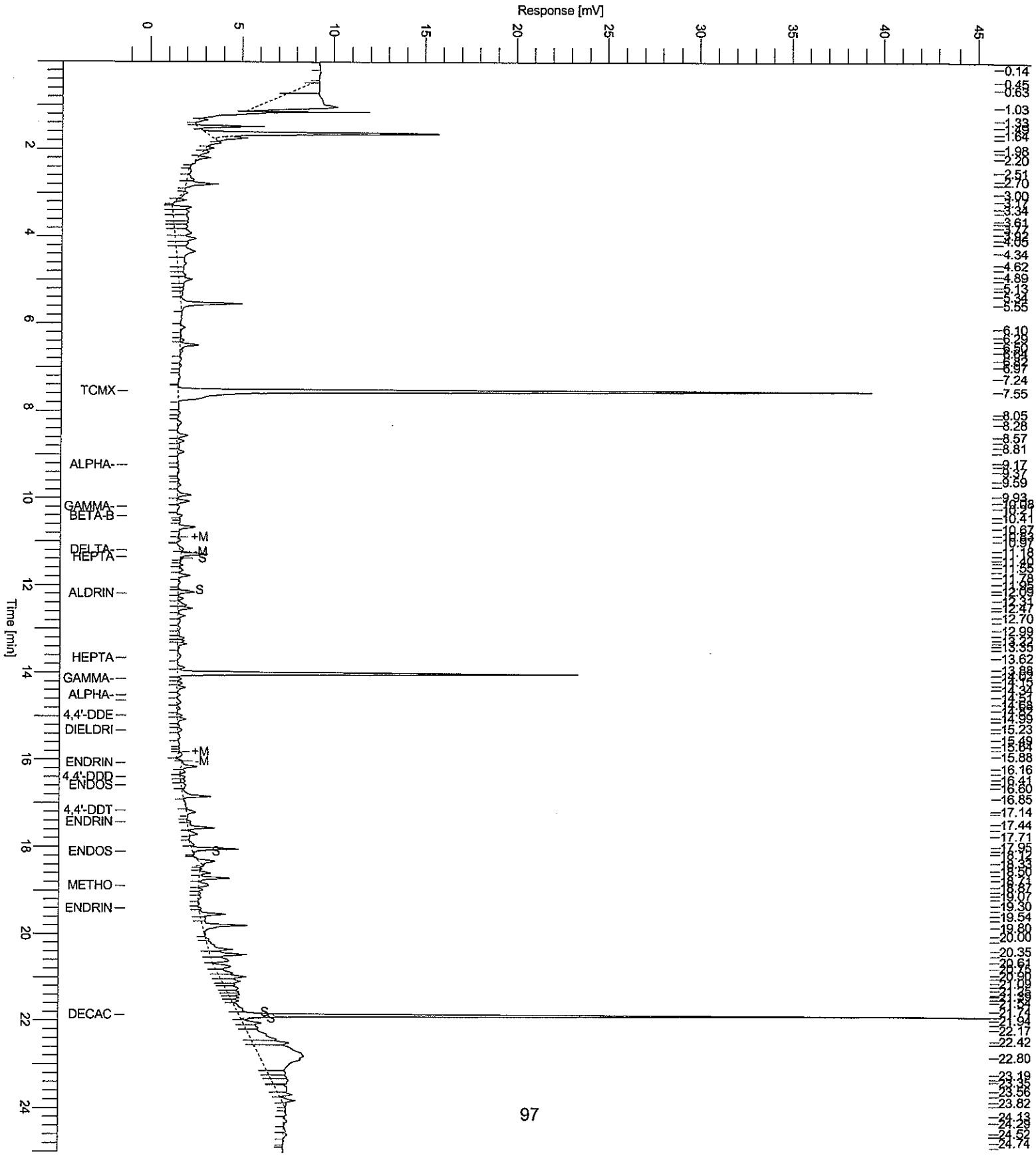
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.547	136808.00	20.0340	0.659	1	13.21
alpha-BHC	9.246	265.89	0.0261	0.659	1	0.02
gamma-BHC	10.210	700.34	0.0761	0.659	1	0.05
beta-BHC	10.410	706.00	0.1735	0.659	1	0.11
delta-BHC	11.184	996.41	0.1101	0.659	1	0.07
Heptachlor	11.396	260.00	0.0412	0.659	1	0.03
Aldrin	12.163	2853.62	0.3302	0.659	1	0.22
Heptachlor epoxide	13.668	0.00	0.0000	0.659	1	0.00
gamma-Chlordane	14.146	677.00	0.0825	0.659	1	0.05
alpha-Chlordane	14.515	522.25	0.0655	0.659	1	0.04
Endosulfan I	14.677	985.17	0.1311	0.659	1	0.09
4,4'-DDE	14.986	900.64	0.1137	0.659	1	0.07
Dieldrin	15.316	991.07	0.1224	0.659	1	0.08
Endrin	16.074	0.00	0.0000	0.659	1	0.00
4,4'-DDD	16.409	1133.00	0.1756	0.659	1	0.12
Endosulfan II	16.599	1527.19	0.2177	0.659	1	0.14
4,4'-DDT	17.142	630.64	0.1150	0.659	1	0.08
Endrin aldehyde	17.439	572.76	0.1024	0.659	1	0.07
Endosulfan sulfate	18.120	350.00	0.0557	0.659	1	0.04
Methoxychlor	18.867	2500.19	0.9886	0.659	1	0.65
Endrin ketone	19.416	391.06	0.0522	0.659	1	0.03
Decachlorobiphenyl	21.868	93262.04	19.7392	0.659	1	13.01
		247033.26	42.7527			28.18

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\287b010p.TX0

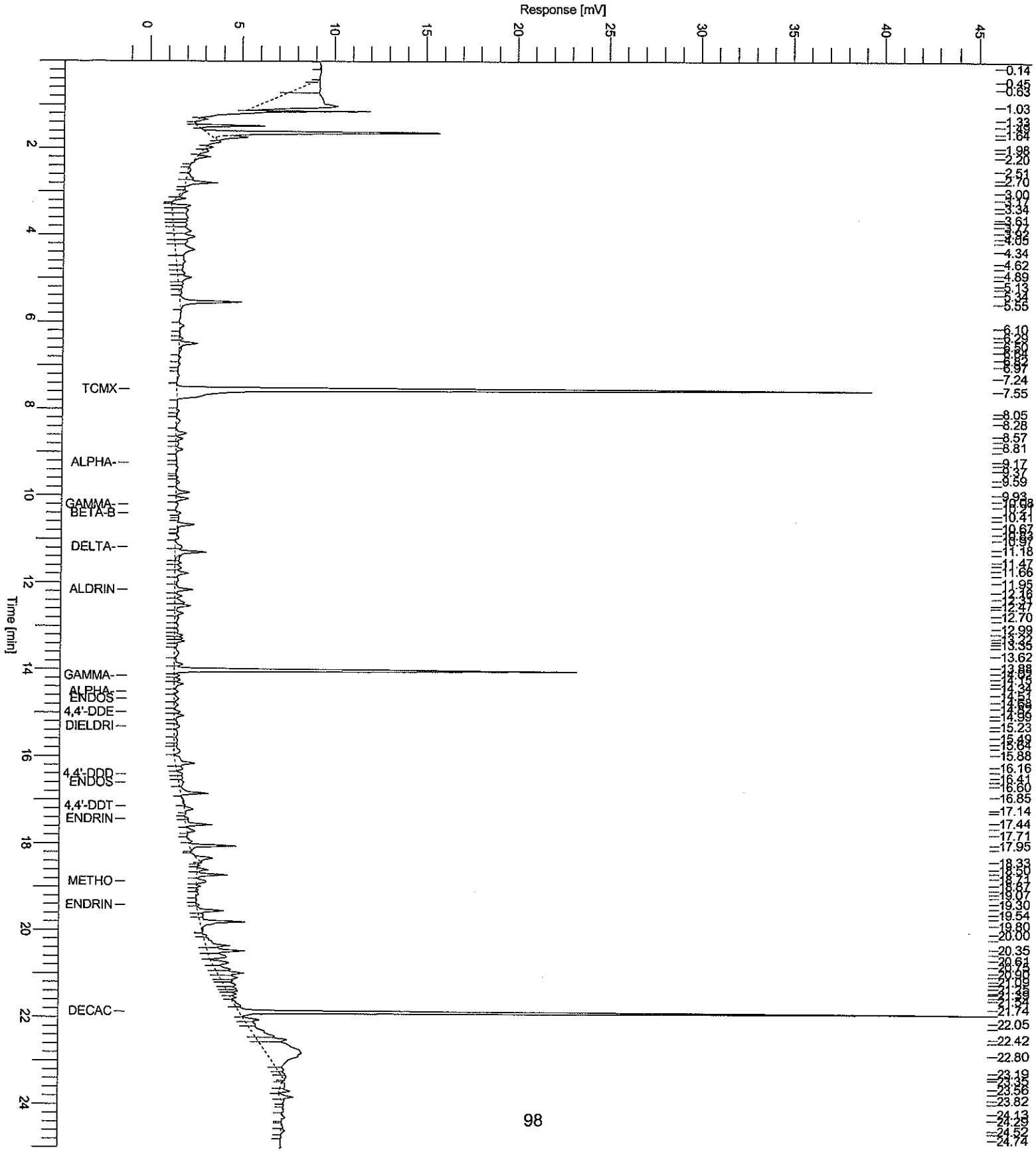
GC23 Rtx-CLPesticides2

Sample Name : 175141-001,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHb\287b010.raw
Date : 10/14/04 12:49:50 PM
Method :
Time of Injection: 10/13/04 7:42:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.17 mV High Point : 45.88 mV
Plot Offset: -1.17 mV Plot Scale: 47.0 mV



GC23 Rtx-CLPesticides2

Sample Name : 175141-001,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHb\287b010
Date : 10/14/04 10:46:30 AM
Method : gc23ins Time of Injection: 10/13/04 7:42:02 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.05 mV High Point : 45.88 mV
Scale Factor: 1.0 Plot Offset: -1.05 mV Plot Scale: 46.9 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC16	Samplenum:	175141-002	Cident	: BB4EX101[0.5]
Seqnum	: 234403952061	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 280_061	Batchnum	: 95271	Injected	: 09-OCT-2004 02:06
IDF	: 1.0			Units	: ug/Kg

Prep: 15.21 g --> 10.0 ml = 0.6575 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=???????	Flags
alpha-BHC	B	234402633001	ND			1.7		?B
beta-BHC	B	234402633001	ND			1.7		?B
gamma-BHC	B	234402633001	ND			1.7		?B
delta-BHC	B	234402633001	ND			1.7		?B
Heptachlor	B	234402633001	ND			1.7		?B
Aldrin	B	234402633001	ND			1.7		?B
Heptachlor epoxide	B	234402633001	ND			1.7		?B
Endosulfan I	B	234402633001	ND			1.7		?B
Dieldrin	B	234402633001	ND			3.3		?B
4,4'-DDE	B	234402633001	ND			3.3		>p ?B
Endrin	B	234402633001	ND			3.3		?B
Endosulfan II	B	234402633001	ND			3.3		?B
Endosulfan sulfate	B	234402633001	ND			3.3		?B
4,4'-DDD	B	234402633001	ND			3.3		>p ?B
Endrin ketone	B	234402633001	ND			3.3		?B
4,4'-DDT	B	234402633001	ND			3.3		>p ?B
Chlordane (Technical)	B		ND			30		?B
alpha-Chlordane	B	234402633001	ND			1.7		?B
gamma-Chlordane	B	234402633001	ND			1.7		?B
Methoxychlor	B	234402633001	ND			17		?B
Toxaphene	B		ND			59		?B

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	234402633001	13.15	14.64	111	65-135	
Decachlorobiphenyl	B	234402633001	13.15	16.60	126	65-135	

>=closing ?B=can't find method blank p=PEM failure

Analyst: CW Date: 10/11/04 Reviewer: CW Date: 10/11/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174141-002,95271
Instrument Name : GC16
Rack/Vial : 1/61
Sample Amount : 1.000000
Cycle : 61

Date : 10/11/04 1:31:20 PM
Data Acquisition Time : 10/9/04 2:06:25 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\280a061p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.894	181029.38	21.8105	0.657	1	14.34
alpha-BHC	8.414	0.00	0.0000	0.657	1	0.00
gamma-BHC	9.269	0.00	0.0000	0.657	1	0.00
beta-BHC	9.536	0.00	0.0000	0.657	1	0.00
delta-BHC	10.016	3915.00	0.4688	0.657	1	0.31
Heptachlor	10.522	0.00	0.0000	0.657	1	0.00
Aldrin	11.253	374.39	0.0449	0.657	1	0.03
Heptachlor epoxide	12.897	635.72	0.0723	0.657	1	0.05
gamma-Chlordane	13.205	9924.97	1.0940	0.657	1	0.72
alpha-Chlordane	13.511	0.00	0.0000	0.657	1	0.00
4,4'-DDE	13.737	635.93	0.0814	0.657	1	0.05
Endosulfan I	13.841	0.00	0.0000	0.657	1	0.00
Dieldrin	14.438	1406.88	0.1713	0.657	1	0.11
Endrin	15.045	1855.24	0.2647	0.657	1	0.17
4,4'-DDD	15.229	0.00	0.0000	0.657	1	0.00
Endosulfan II	15.570	404.41	0.0518	0.657	1	0.03
4,4'-DDT	15.857	19324.76	4.3526	0.657	1	2.86
Endrin aldehyde	16.560	32757.07	4.8648	0.657	1	3.20
Methoxychlor	17.120	0.00	0.0000	0.657	1	0.00
Endosulfan sulfate	17.669	5546.92	0.7814	0.657	1	0.51
Endrin ketone	18.311	18912.94	2.4410	0.657	1	1.60
Decachlorobiphenyl	20.761	166527.76	20.5210	0.657	1	13.49
		443251.34	57.0205			37.49

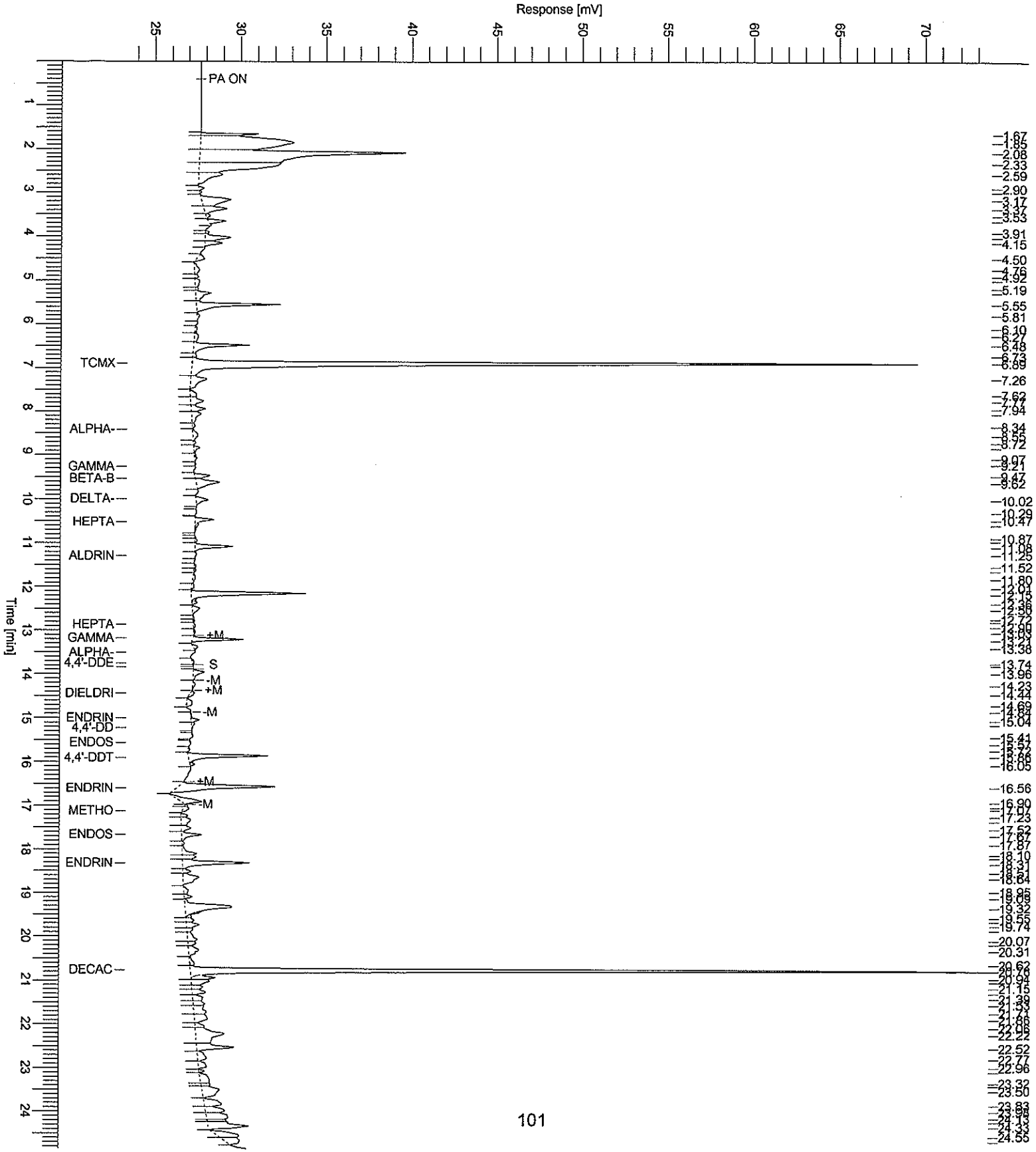
CL
10/11/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\280a061p.TX0

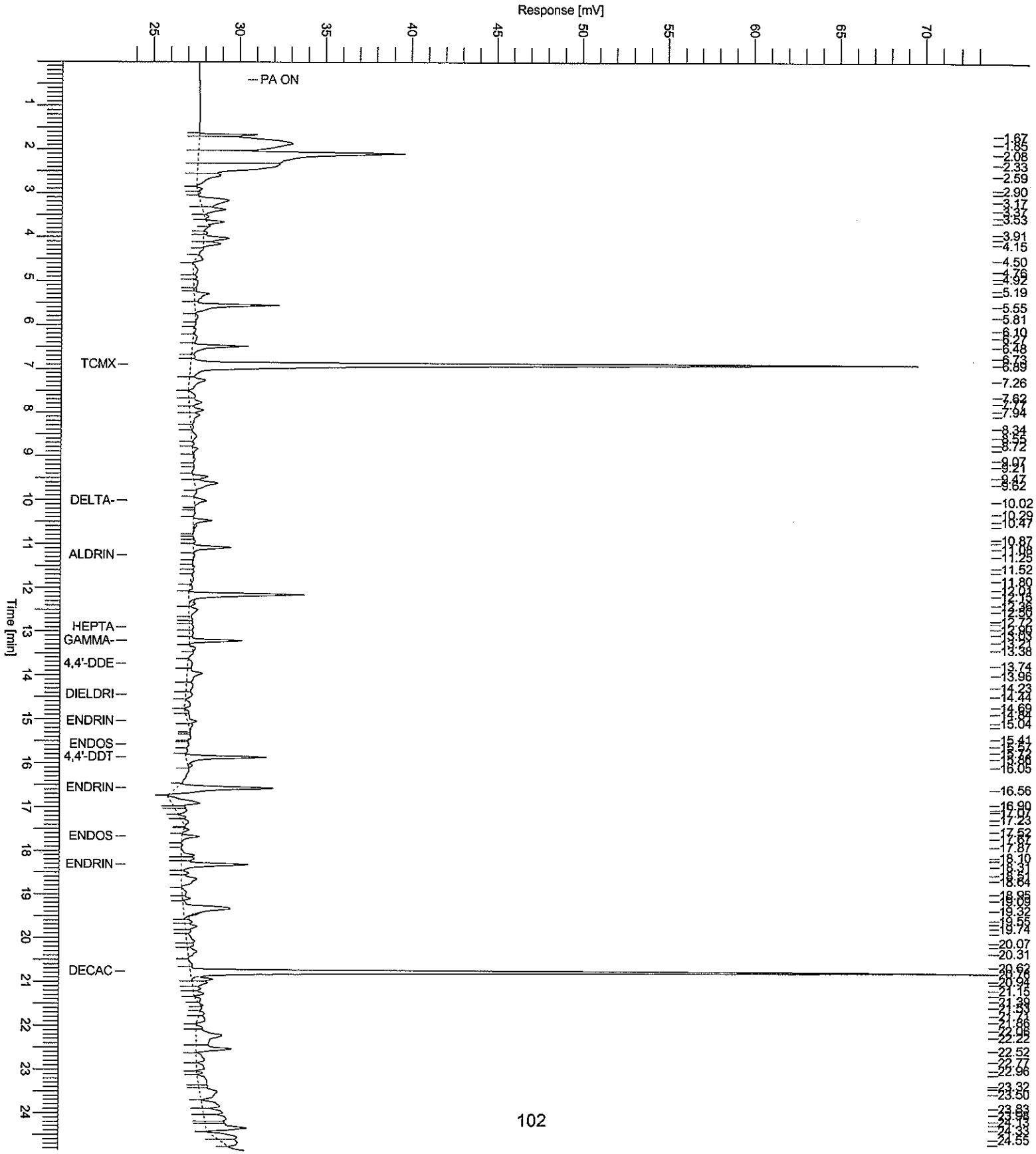
GC16 Rtx-CLPesticides

Sample Name : 174141-002,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a061.raw
Date : 10/11/04 1:31:25 PM
Method : Time of Injection: 10/9/04 2:06:25 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 23.41 mV High Point : 73.81 mV
Plot Offset: 23.41 mV Plot Scale: 50.4 mV



GC16 Rtx-CLPesticides

Sample Name : 174141-002,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a061.raw
Date : 10/11/04 12:37:41 PM
Method : gc16 Time of Injection: 10/9/04 2:06:25 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 23.53 mV High Point : 73.81 mV
Scale Factor: 1.0 Plot Offset: 23.53 mV Plot Scale: 50.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174141-002,95271
Instrument Name : GC16
Rack/Vial : 1/61
Sample Amount : 1.000000
Cycle : 61

Date : 10/11/04 1:32:56 PM
Data Acquisition Time : 10/9/04 2:06:25 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\280b061p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

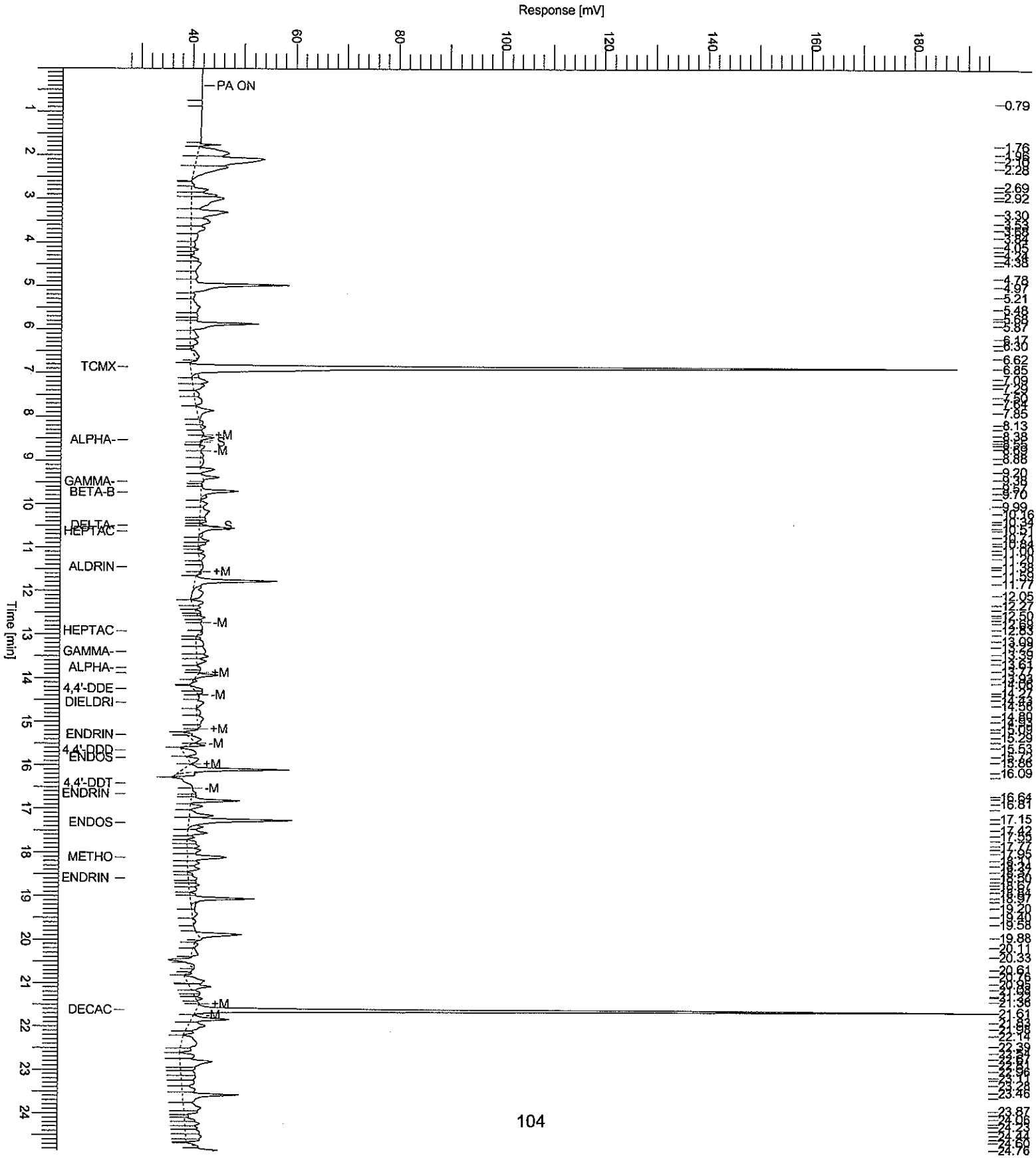
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	573546.89	22.2681	0.657	1	14.64
alpha-BHC	8.550	579.00	0.0160	0.657	1	0.01
gamma-BHC	9.483	0.00	0.0000	0.657	1	0.00
beta-BHC	9.699	31826.60	1.7515	0.657	1	1.15
delta-BHC	10.508	3206.31	0.0923	0.657	1	0.06
Heptachlor	10.629	0.00	0.0000	0.657	1	0.00
Aldrin	11.443	3510.20	0.1120	0.657	1	0.07
Heptachlor epoxide	12.951	3042.42	0.1026	0.657	1	0.07
gamma-Chlordane	13.391	16777.41	0.5219	0.657	1	0.34
alpha-Chlordane	13.771	1094.61	0.0346	0.657	1	0.02
Endosulfan I	13.931	14620.77	0.5190	0.657	1	0.34
4,4'-DDE	14.267	8636.36	0.3245	0.657	1	0.21
Dieldrin	14.562	7820.59	0.2875	0.657	1	0.19
Endrin	15.286	3519.79	0.1552	0.657	1	0.10
4,4'-DDD	15.654	0.00	0.0000	0.657	1	0.00
Endosulfan II	15.859	12715.92	0.5164	0.657	1	0.34
4,4'-DDT	16.413	0.00	0.0000	0.657	1	0.00
Endrin aldehyde	16.643	3304.68	0.1688	0.657	1	0.11
Endosulfan sulfate	17.321	0.00	0.0000	0.657	1	0.00
Methoxychlor	18.107	40567.27	6.5594	0.657	1	4.31
Endrin ketone	18.594	9533.71	0.4094	0.657	1	0.27
Decachlorobiphenyl	21.613	467002.89	25.2486	0.657	1	16.60
		1201305.40	59.0878			38.85

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\280b061p.TX0

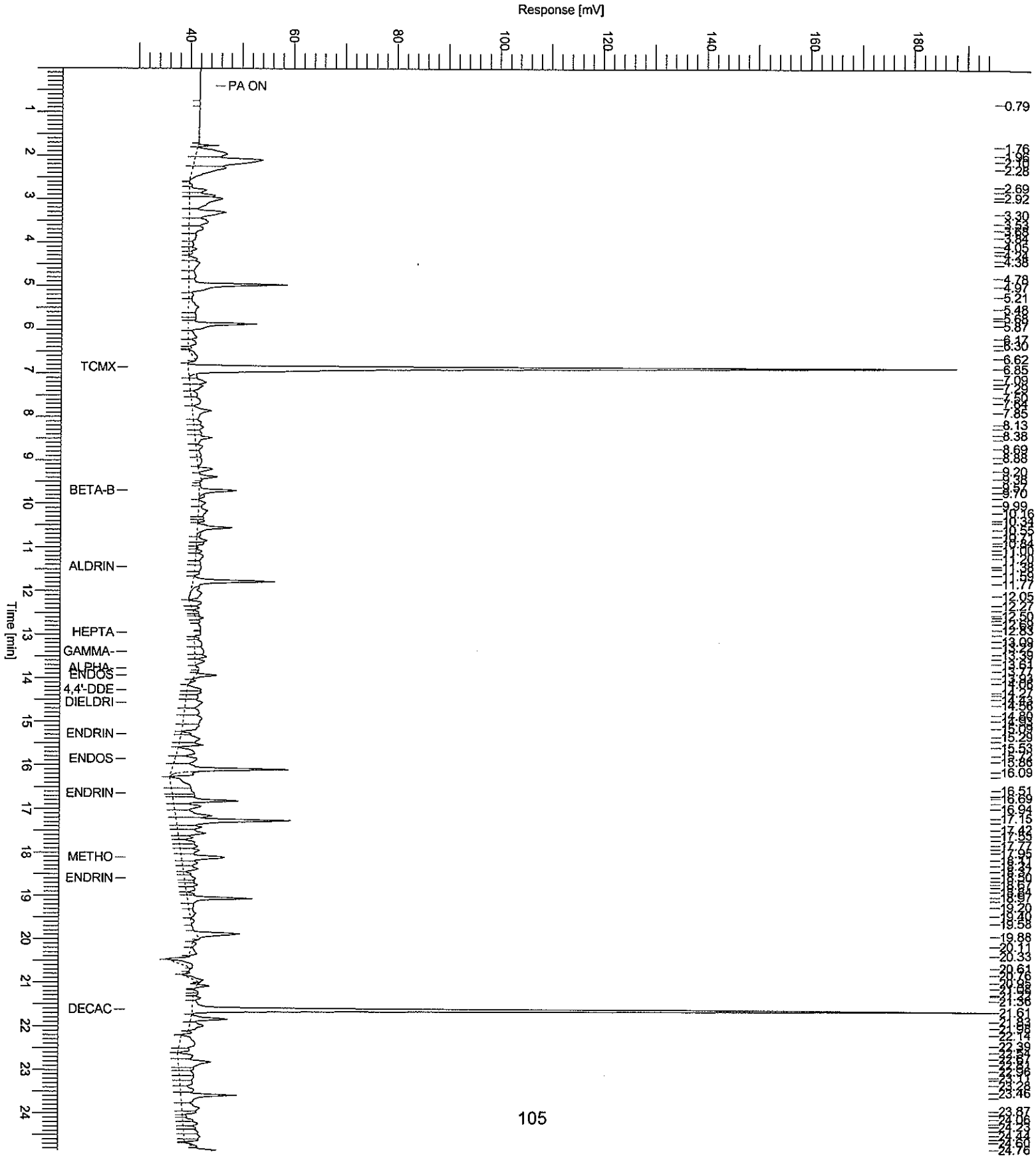
GC16 Rtx-CLPesticides2

Sample Name : 174141-002,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b061.raw
Date : 10/11/04 1:33:01 PM
Method :
Time of Injection: 10/9/04 2:06:25 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 27.62 mV High Point : 195.15 mV
Plot Offset: 27.62 mV Plot Scale: 167.5 mV



GC16 Rtx-CLPesticides2

Sample Name : 174141-002,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b061
Date : 10/11/04 12:38:35 PM
Method : gc16 Time of Injection: 10/9/04 2:06:25 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 28.03 mV High Point : 195.15 mV
Scale Factor: 1.0 Plot Offset: 28.03 mV Plot Scale: 167.1 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC16	Samplenum:	175141-003	Cident	: BB4EX102[0.5]
Seqnum	: 234403952062	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 280_062	Batchnum	: 95271	Injected	: 09-OCT-2004 02:36
IDF	: 1.0			Units	: ug/Kg

Prep: 14.98 g --> 10.0 ml = 0.6676 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=???????	Flags
alpha-BHC	B	234402633001	ND			1.7		?B
beta-BHC	B	234402633001	ND			1.7		?B
gamma-BHC	B	234402633001	ND			1.7		?B
delta-BHC	B	234402633001	ND			1.7		?B
Heptachlor	B	234402633001	ND			1.7		?B
Aldrin	B	234402633001	ND			1.7		?B
Heptachlor epoxide	B	234402633001	ND			1.7		?B
Endosulfan I	B	234402633001	ND			1.7		?B
Dieldrin	B	234402633001	ND			3.3		?B
4,4'-DDE	B	234402633001	ND			3.3		>p ?B
Endrin	B	234402633001	ND			3.3		?B
Endosulfan II	B	234402633001	ND			3.3		?B
Endosulfan sulfate	B	234402633001	ND			3.3		?B
4,4'-DDD	B	234402633001	ND			3.3		>p ?B
Endrin ketone	B	234402633001	ND			3.3		?B
4,4'-DDT	B	234402633001	ND			3.3		>p ?B
Chlordane (Technical)	B		ND			30		?B
alpha-Chlordane	B	234402633001	ND			1.7		?B
gamma-Chlordane	B	234402633001	ND			1.7		?B
Methoxychlor	B	234402633001	ND			17		?B
Toxaphene	B		ND			60		?B

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	234402633001	13.35	17.36	130	65-135	
Decachlorobiphenyl	B	234402633001	13.35	18.73	140*	65-135	

>=closing ?B=can't find method blank p=PEM failure

Analyst: CH Date: 10/11/04 Reviewer: CW Date: 10/11/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174141-003,95271
Instrument Name : GC16
Rack/Vial : 1/62
Sample Amount : 1.000000
Cycle : 62

Date : 10/11/04 1:42:00 PM
Data Acquisition Time : 10/9/04 2:36:38 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\280a062p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.892	218778.70	26.3586	0.668	1	17.60
alpha-BHC	8.414	0.00	0.0000	0.668	1	0.00
gamma-BHC	9.269	0.00	0.0000	0.668	1	0.00
beta-BHC	9.536	0.00	0.0000	0.668	1	0.00
delta-BHC	10.019	4810.28	0.5760	0.668	1	0.38
Heptachlor	10.522	0.00	0.0000	0.668	1	0.00
Aldrin	11.295	0.00	0.0000	0.668	1	0.00
Heptachlor epoxide	12.868	0.00	0.0000	0.668	1	0.00
gamma-Chlordane	13.204	12478.30	1.3754	0.668	1	0.92
alpha-Chlordane	13.477	703.39	0.0774	0.668	1	0.05
4,4'-DDE	13.733	997.28	0.1276	0.668	1	0.09
Endosulfan I	13.841	0.00	0.0000	0.668	1	0.00
Dieldrin	14.452	1589.18	0.1935	0.668	1	0.13
Endrin	15.028	2221.27	0.3170	0.668	1	0.21
4,4'-DDD	15.229	0.00	0.0000	0.668	1	0.00
Endosulfan II	15.556	679.32	0.0871	0.668	1	0.06
4,4'-DDT	15.906	0.00	0.0000	0.668	1	0.00
Endrin aldehyde	16.571	13748.12	2.0417	0.668	1	1.36
Methoxychlor	17.106	2786.17	1.2056	0.668	1	0.80
Endosulfan sulfate	17.668	5297.83	0.7463	0.668	1	0.50
Endrin ketone	18.311	22599.16	2.9168	0.668	1	1.95
Decachlorobiphenyl	20.760	197211.13	24.3021	0.668	1	16.22
		483900.13	60.3250			40.27

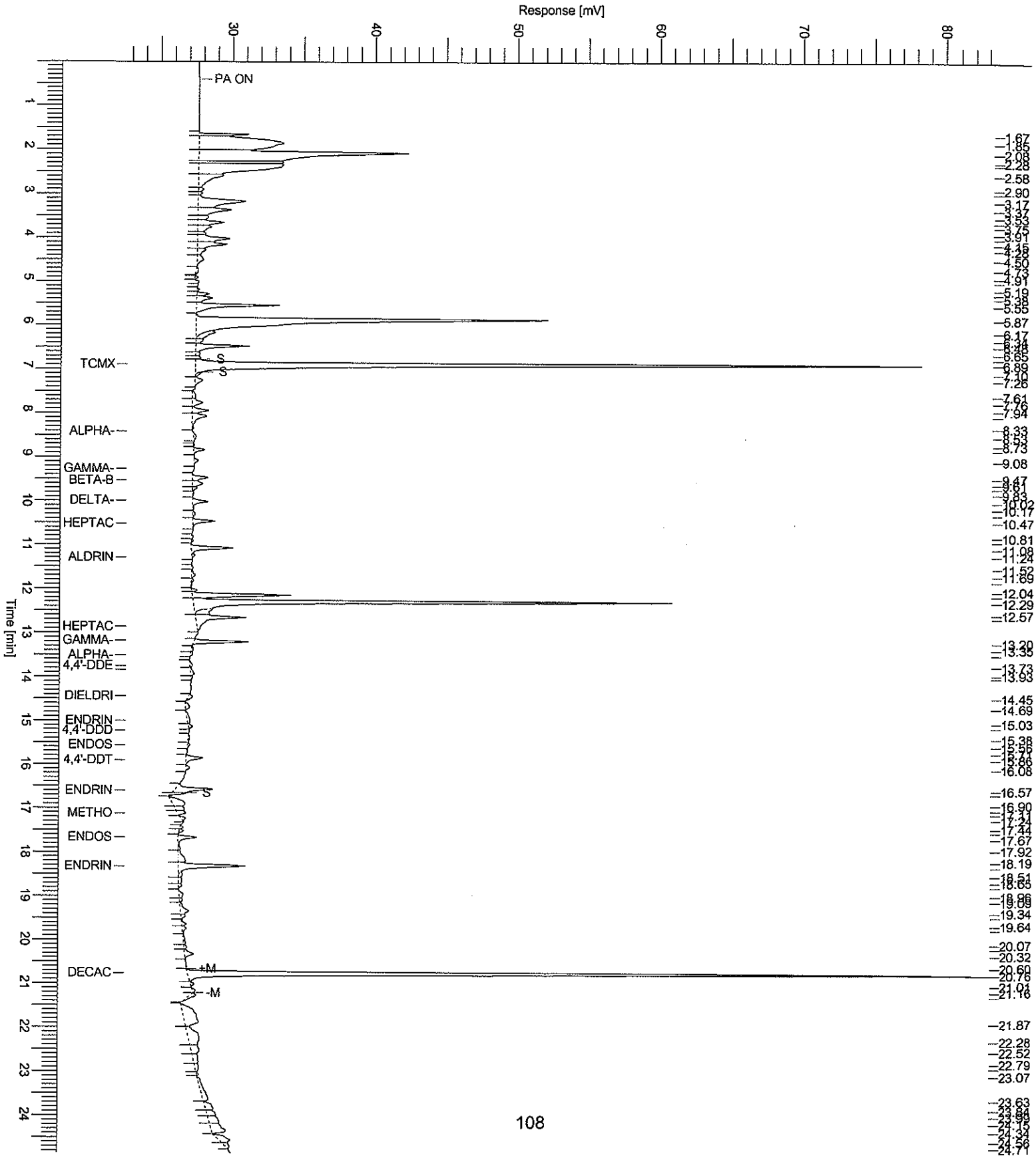
10/11/-4

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\280a062p.TX0

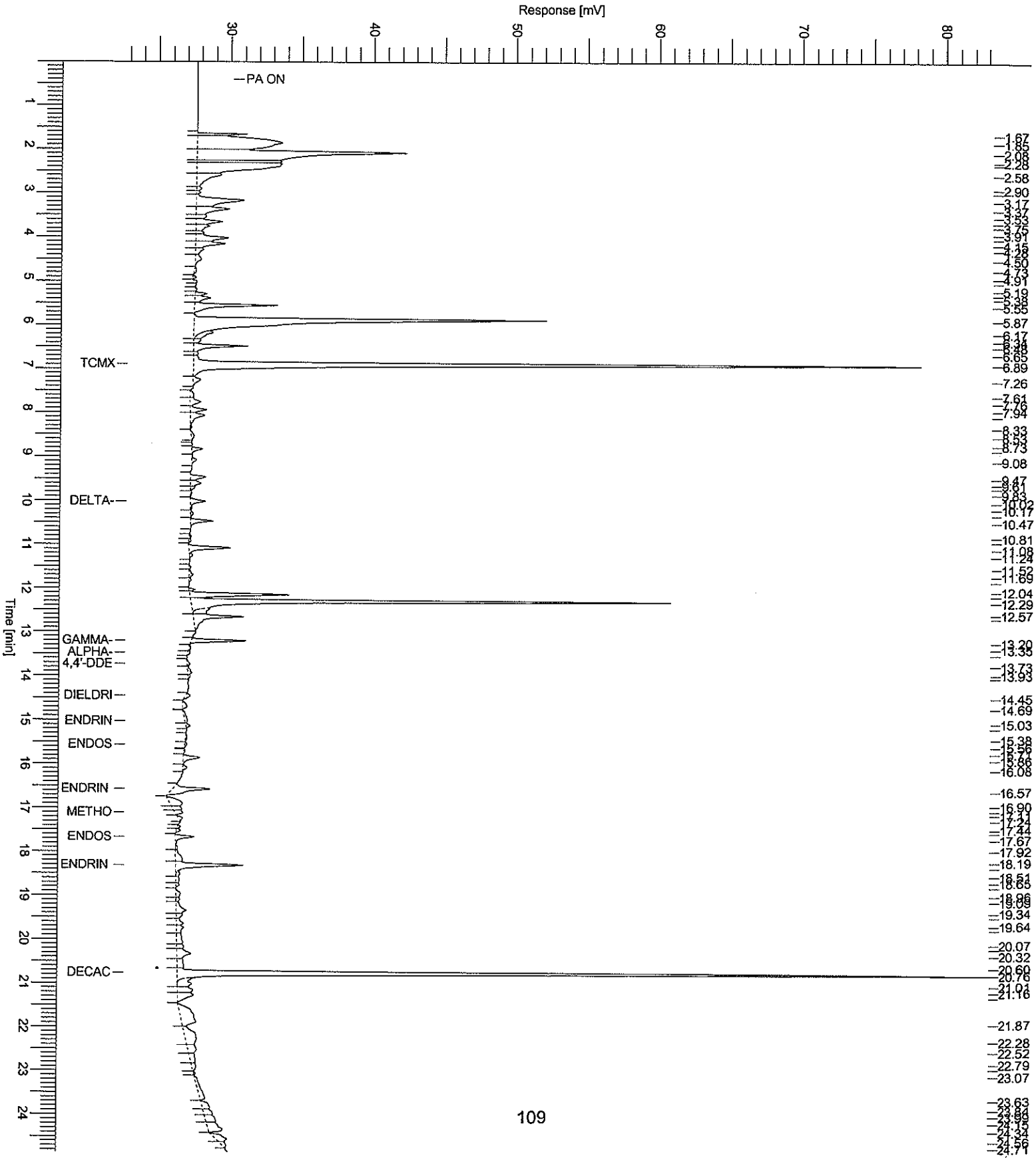
GC16 Rtx-CLPesticides

Sample Name : 174141-003,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a062.raw
Date : 10/11/04 1:42:05 PM
Method :
Time of Injection: 10/9/04 2:36:38 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 22.70 mV High Point : 83.30 mV
Plot Offset: 22.70 mV Plot Scale: 60.6 mV



GC16 Rtx-CLPesticides

Sample Name : 174141-003,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a062.raw
Date : 10/11/04 12:37:48 PM
Method : gc16 Time of Injection: 10/9/04 2:36:38 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 22.85 mV High Point : 83.30 mV
Scale Factor: 1.0 Plot Offset: 22.85 mV Plot Scale: 60.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174141-003,95271
Instrument Name : GC16
Rack/Vial : 1/62
Sample Amount : 1.000000
Cycle : 62

Date : 10/11/04 1:39:12 PM
Data Acquisition Time : 10/9/04 2:36:38 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\280b062p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

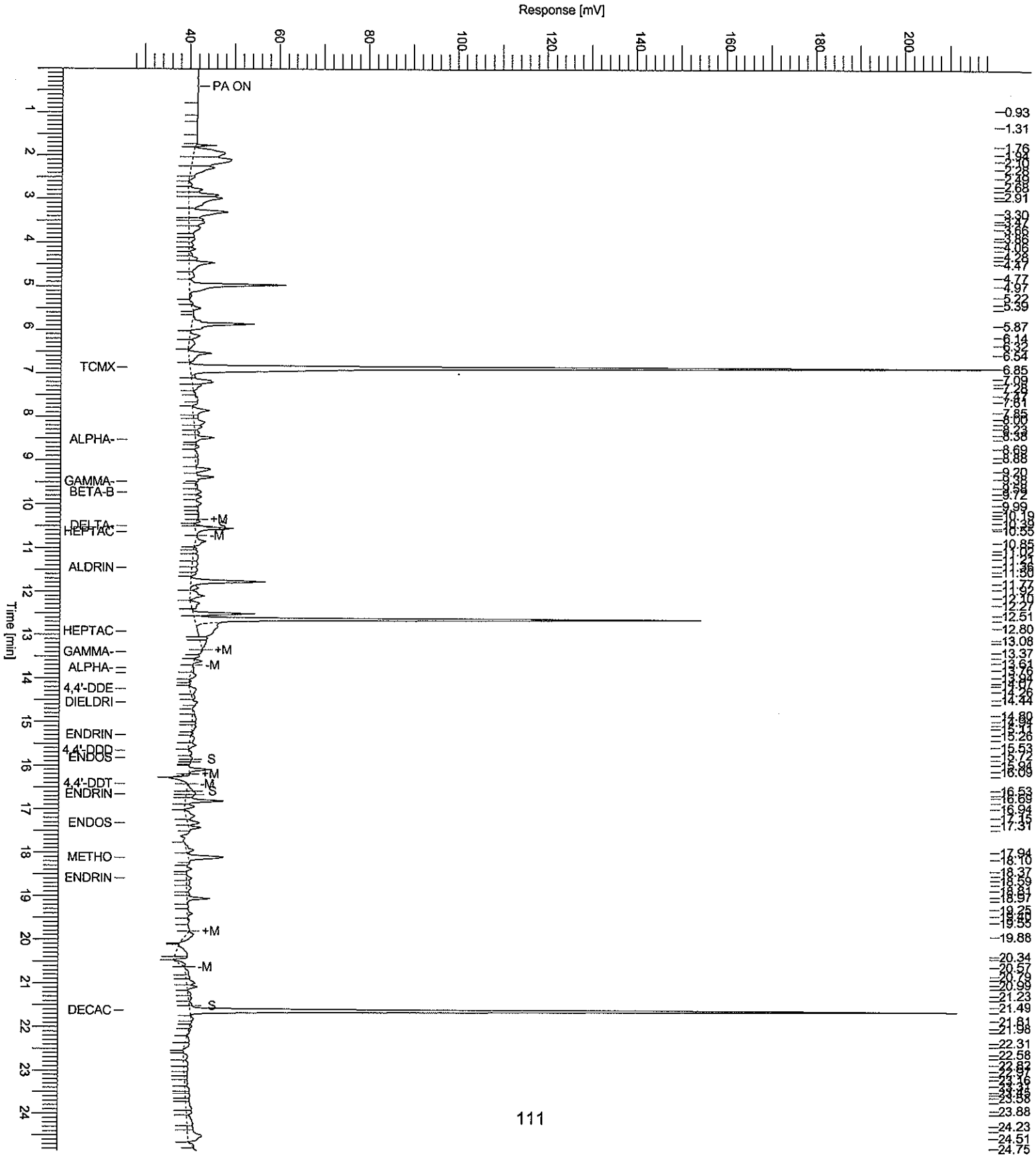
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	669698.01	26.0012	0.668	1	17.36
alpha-BHC	8.480	15246.81	0.4215	0.668	1	0.28
gamma-BHC	9.483	0.00	0.0000	0.668	1	0.00
beta-BHC	9.717	5574.72	0.3068	0.668	1	0.20
delta-BHC	10.511	3246.64	0.0934	0.668	1	0.06
Heptachlor	10.629	0.00	0.0000	0.668	1	0.00
Aldrin	11.503	8168.13	0.2607	0.668	1	0.17
Heptachlor epoxide	12.922	0.00	0.0000	0.668	1	0.00
gamma-Chlordane	13.366	1476.43	0.0459	0.668	1	0.03
alpha-Chlordane	13.763	3425.33	0.1083	0.668	1	0.07
Endosulfan I	13.882	0.00	0.0000	0.668	1	0.00
4,4'-DDE	14.259	10449.15	0.3926	0.668	1	0.26
Dieldrin	14.553	2566.27	0.0944	0.668	1	0.06
Endrin	15.261	859.44	0.0379	0.668	1	0.03
4,4'-DDD	15.654	0.00	0.0000	0.668	1	0.00
Endosulfan II	15.828	644.50	0.0262	0.668	1	0.02
4,4'-DDT	16.413	0.00	0.0000	0.668	1	0.00
Endrin aldehyde	16.630	9029.06	0.4611	0.668	1	0.31
Endosulfan sulfate	17.313	11853.39	0.5310	0.668	1	0.35
Methoxychlor	18.103	35668.54	5.7673	0.668	1	3.85
Endrin ketone	18.589	5113.26	0.2196	0.668	1	0.15
Decachlorobiphenyl	21.613	518964.14	28.0579	0.668	1	18.73
		1301983.82	62.8257			41.94

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\280b062p.TX0

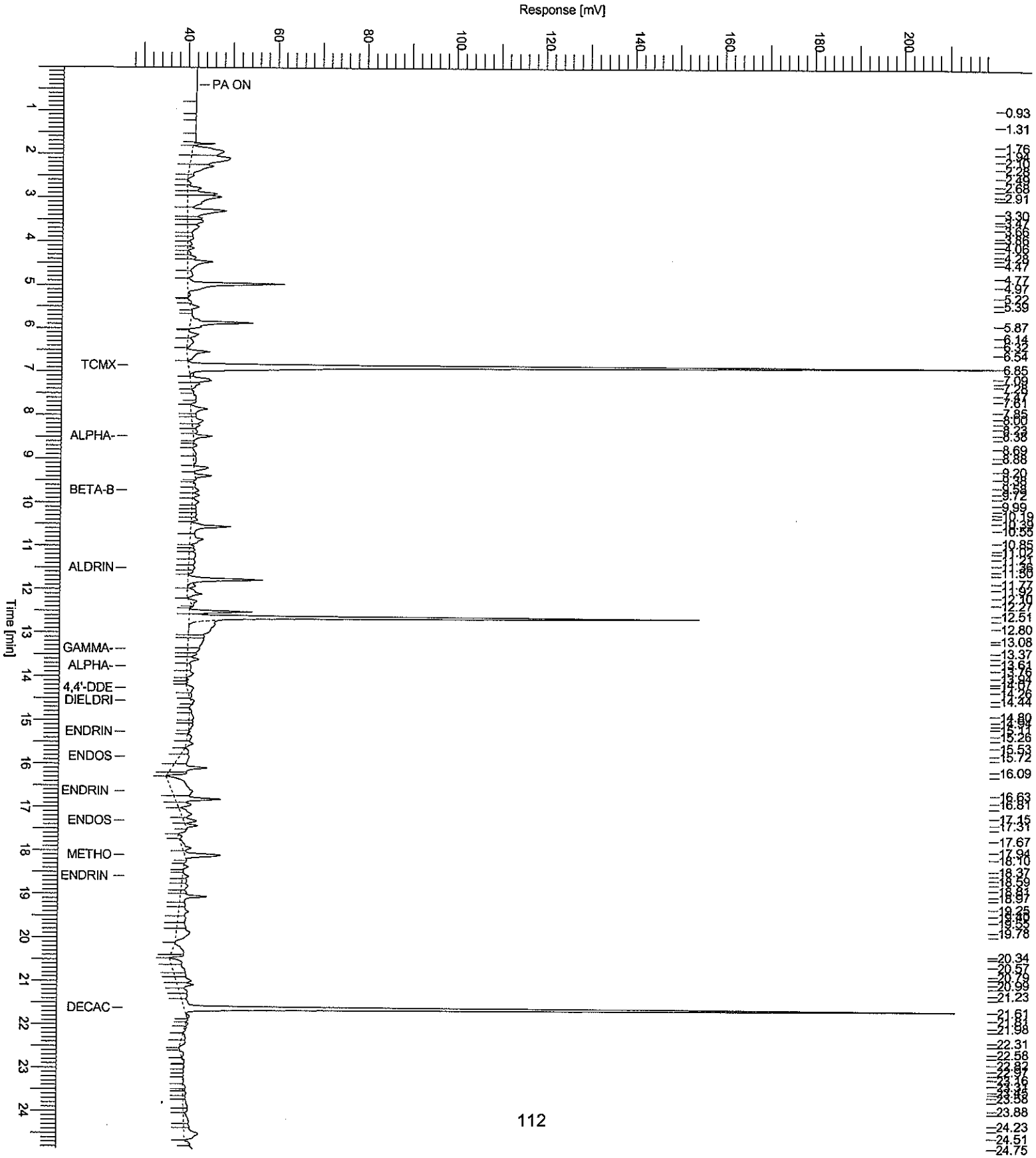
GC16 Rtx-CLPesticides2

Sample Name : 174141-003,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b062.raw
Date : 10/11/04 1:39:17 PM
Method :
Time of Injection: 10/9/04 2:36:38 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 26.31 mV High Point : 219.79 mV
Plot Offset: 26.31 mV Plot Scale: 193.5 mV



GC16 Rtx-CLPesticides2

Sample Name : 174141-003,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b062
Date : 10/11/04 12:38:42 PM
Method : gc16 Time of Injection: 10/9/04 2:36:38 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 26.79 mV High Point : 219.79 mV
Scale Factor: 1.0 Plot Offset: 26.79 mV Plot Scale: 193.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC16	Samplenum:	175141-004	Cident	: BB4EX103[0.5]
Seqnum	: 234403952063	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 280_063	Batchnum	: 95271	Injected	: 09-OCT-2004 03:06
IDF	: 1.0			Units	: ug/Kg

Prep: 15.13 g --> 10.0 ml = 0.6609 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=???????	Flags
alpha-BHC	B	234402633001	ND			1.7		?B
beta-BHC	B	234402633001	ND			1.7		?B
gamma-BHC	B	234402633001	ND			1.7		?B
delta-BHC	B	234402633001	ND			1.7		?B
Heptachlor	B	234402633001	ND			1.7		?B
Aldrin	B	234402633001	ND			1.7		?B
Heptachlor epoxide	B	234402633001	ND			1.7		?B
Endosulfan I	B	234402633001	ND			1.7		?B
Dieldrin	B	234402633001	ND			3.3		?B
4,4'-DDE	B	234402633001	ND			3.3		>p ?B
Endrin	B	234402633001	ND			3.3		?B
Endosulfan II	B	234402633001	ND			3.3		?B
Endosulfan sulfate	B	234402633001	ND			3.3		?B
4,4'-DDD	B	234402633001	ND			3.3		>p ?B
Endrin ketone	B	234402633001	ND			3.3		?B
4,4'-DDT	B	234402633001	ND			3.3		>p ?B
Chlordane (Technical)	B		ND			30		?B
alpha-Chlordane	B	234402633001	ND			1.7		?B
gamma-Chlordane	B	234402633001	ND			1.7		?B
Methoxychlor	B	234402633001	ND			17		?B
Toxaphene	B		ND			59		?B

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	234402633001	13.22	18.11	**137***	65-135	
Decachlorobiphenyl	B	234402633001	13.22	18.89	**143***	65-135	

>=closing ?B=can't find method blank p=PEM failure

Analyst: CW Date: 10/11/04 Reviewer: CW Date: 10/11/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174141-004,95271
Instrument Name : GC16
Rack/Vial : 1/63
Sample Amount : 1.000000
Cycle : 63

Date : 10/11/04 1:43:39 PM
Data Acquisition Time : 10/9/04 3:06:51 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\280a063p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.892	230781.14	27.8046	0.661	1	18.38
alpha-BHC	8.414	0.00	0.0000	0.661	1	0.00
gamma-BHC	9.269	0.00	0.0000	0.661	1	0.00
beta-BHC	9.536	0.00	0.0000	0.661	1	0.00
delta-BHC	10.019	4343.77	0.5201	0.661	1	0.34
Heptachlor	10.522	0.00	0.0000	0.661	1	0.00
Aldrin	11.295	0.00	0.0000	0.661	1	0.00
Heptachlor epoxide	12.868	0.00	0.0000	0.661	1	0.00
gamma-Chlordane	13.205	9724.42	1.0719	0.661	1	0.71
alpha-Chlordane	13.478	1849.99	0.2035	0.661	1	0.13
4,4'-DDE	13.747	1599.88	0.2048	0.661	1	0.14
Endosulfan I	13.868	1158.44	0.1230	0.661	1	0.08
Dieldrin	14.450	2652.88	0.3230	0.661	1	0.21
Endrin	15.003	0.00	0.0000	0.661	1	0.00
4,4'-DDD	15.228	2023.03	0.3467	0.661	1	0.23
Endosulfan II	15.557	629.07	0.0806	0.661	1	0.05
4,4'-DDT	15.856	11509.08	2.5922	0.661	1	1.71
Endrin aldehyde	16.567	11934.72	1.7724	0.661	1	1.17
Methoxychlor	17.102	2513.85	1.0878	0.661	1	0.72
Endosulfan sulfate	17.668	6215.35	0.8755	0.661	1	0.58
Endrin ketone	18.309	35580.74	4.5922	0.661	1	3.04
Decachlorobiphenyl	20.759	209721.52	25.8437	0.661	1	17.08
		532237.89	67.4421			44.58

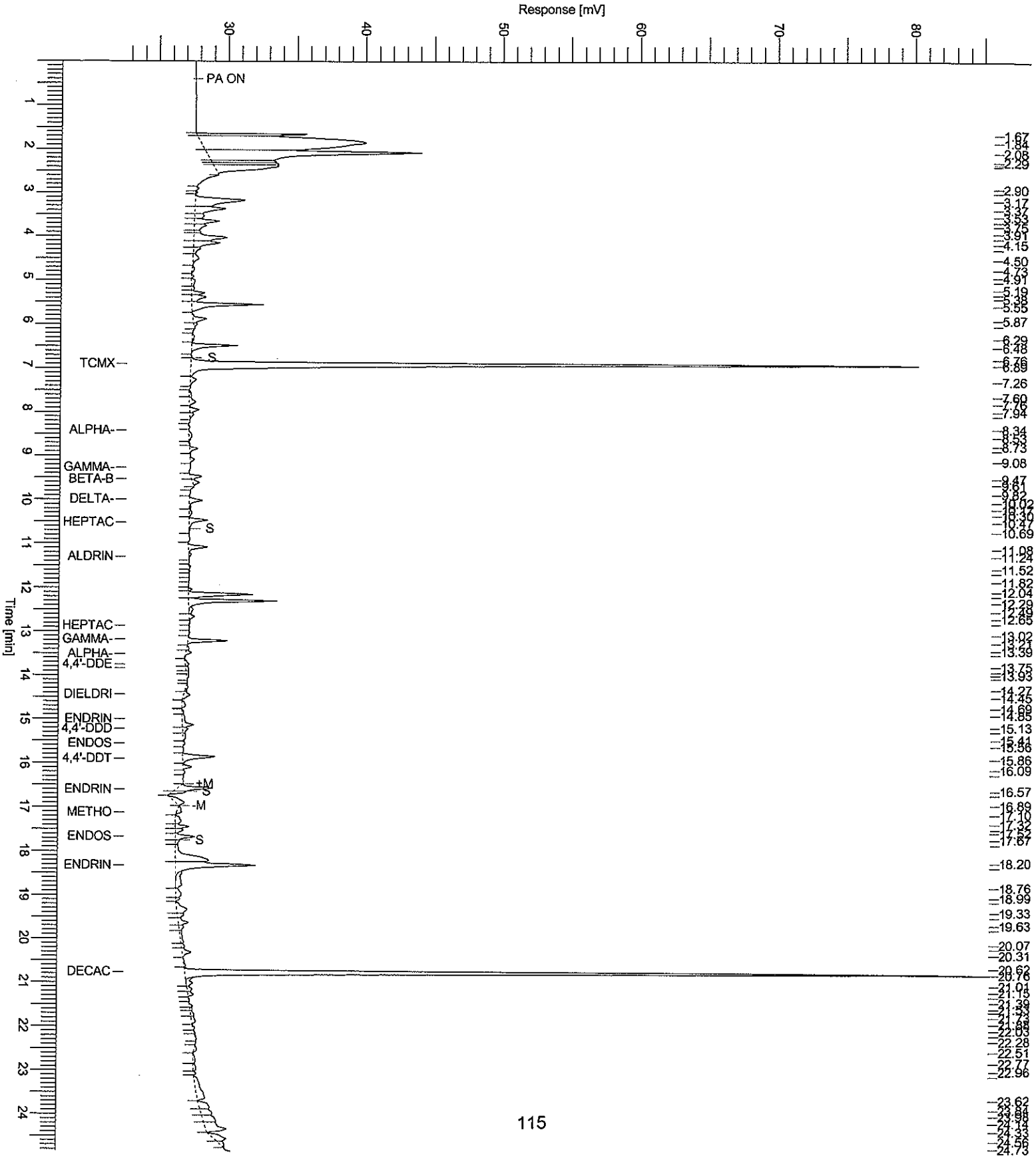
GP
10/11/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\280a063p.TX0

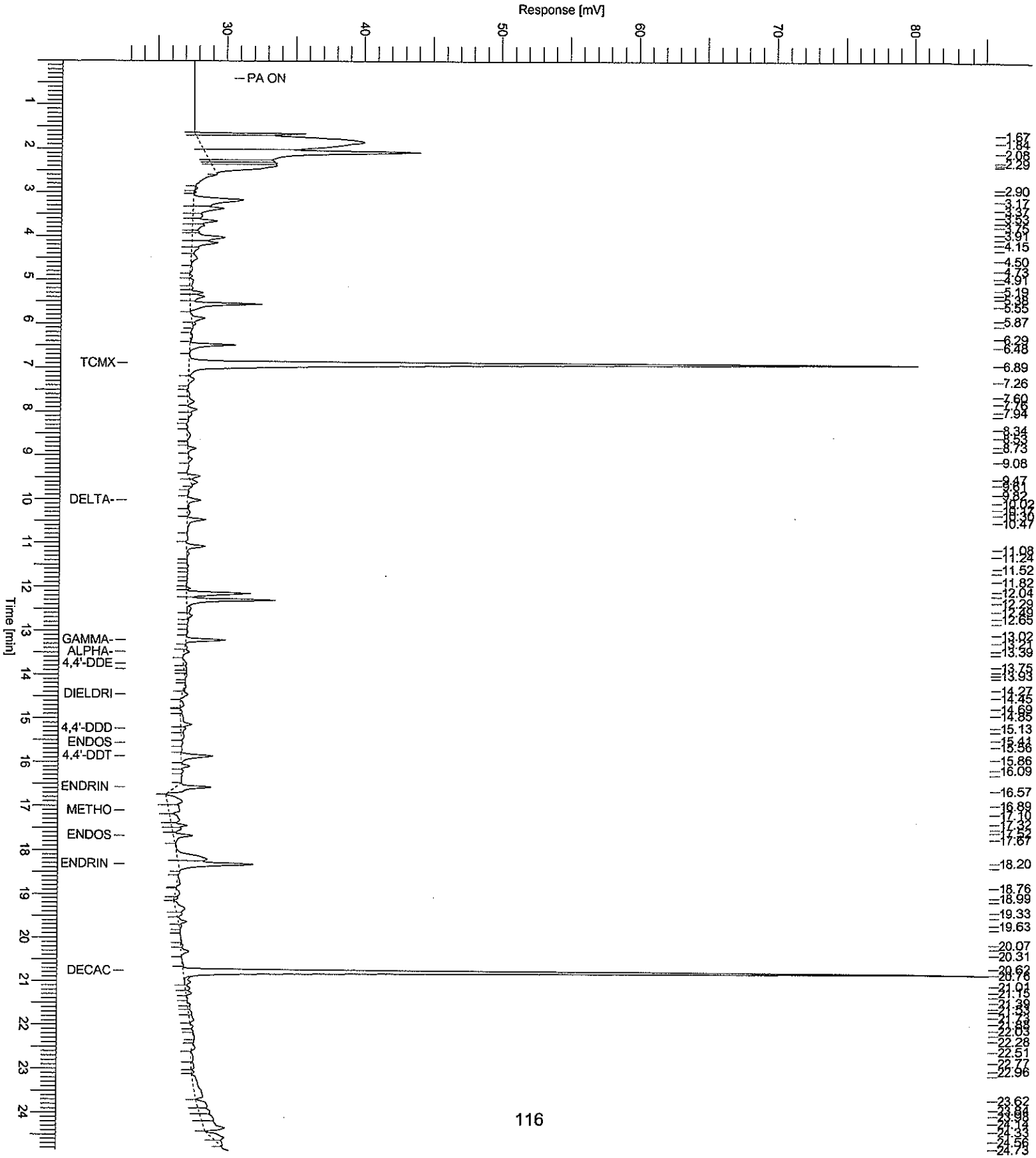
GC16 Rtx-CLPesticides

Sample Name : 174141-004,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a063.raw
Date : 10/11/04 1:43:45 PM
Method :
Time of Injection: 10/9/04 3:06:51 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 22.72 mV High Point : 85.68 mV
Plot Offset: 22.72 mV Plot Scale: 63.0 mV



GC16 Rtx-CLPesticides

Sample Name : 174141-004,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a063.raw
Date : 10/11/04 12:37:57 PM
Method : gc16 Time of Injection: 10/9/04 3:06:51 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 22.88 mV High Point : 85.68 mV
Scale Factor: 1.0 Plot Offset: 22.88 mV Plot Scale: 62.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174141-004,95271
Instrument Name : GC16
Rack/Vial : 1/63
Sample Amount : 1.000000
Cycle : 63

Date : 10/11/04 1:45:40 PM
Data Acquisition Time : 10/9/04 3:06:51 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\280b063p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

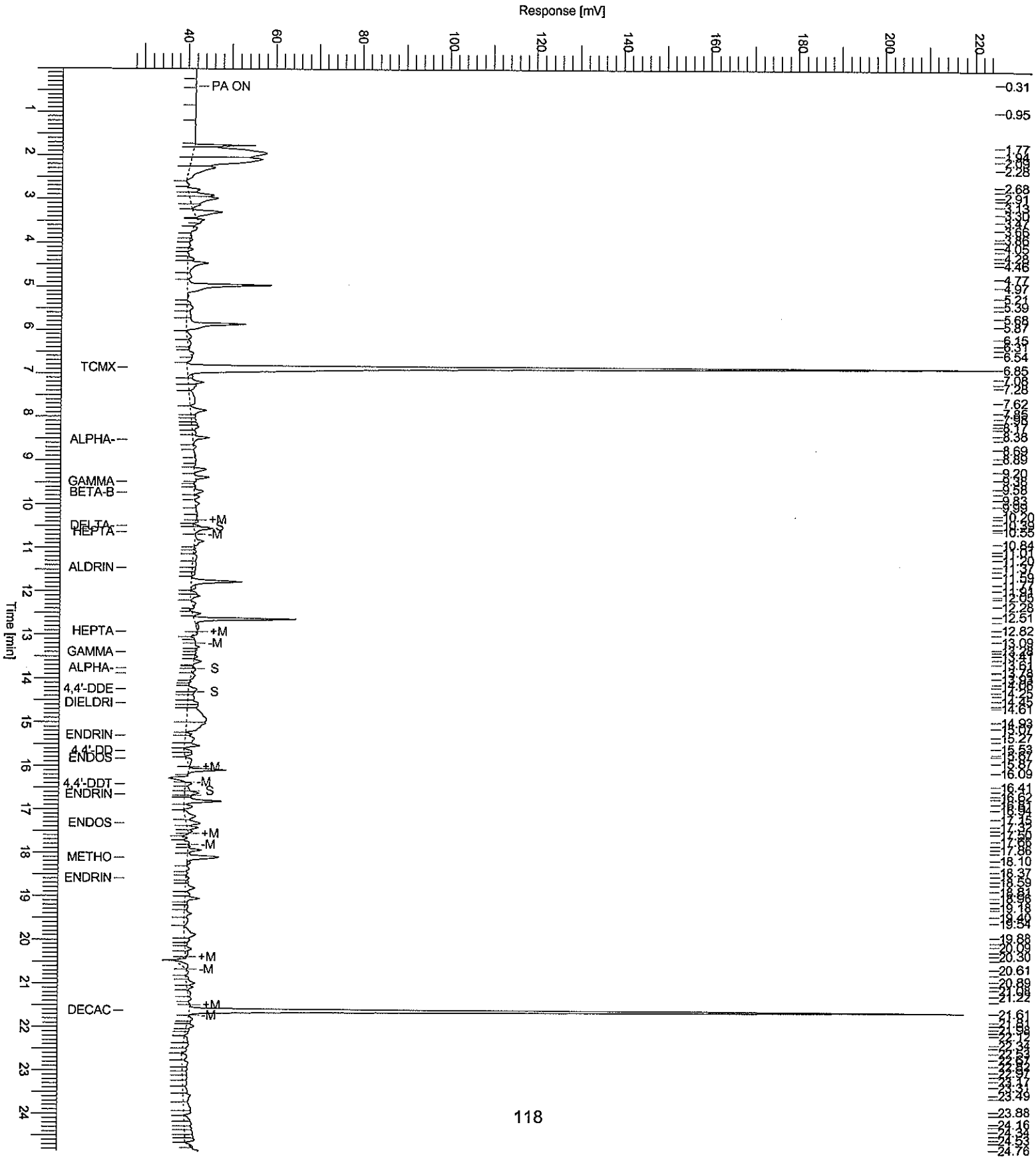
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	705586.97	27.3946	0.661	1	18.11
alpha-BHC	8.530	0.00	0.0000	0.661	1	0.00
gamma-BHC	9.483	0.00	0.0000	0.661	1	0.00
beta-BHC	9.700	9937.52	0.5469	0.661	1	0.36
delta-BHC	10.501	3372.11	0.0970	0.661	1	0.06
Heptachlor	10.629	0.00	0.0000	0.661	1	0.00
Aldrin	11.472	4837.36	0.1544	0.661	1	0.10
Heptachlor epoxide	12.941	2970.54	0.1002	0.661	1	0.07
gamma-Chlordane	13.413	692.29	0.0215	0.661	1	0.01
alpha-Chlordane	13.781	1232.60	0.0390	0.661	1	0.03
Endosulfan I	13.882	0.00	0.0000	0.661	1	0.00
4,4'-DDE	14.249	10540.28	0.3960	0.661	1	0.26
Dieldrin	14.566	11685.35	0.4296	0.661	1	0.28
Endrin	15.272	3868.83	0.1706	0.661	1	0.11
4,4'-DDD	15.672	6264.23	0.3279	0.661	1	0.22
Endosulfan II	15.868	8283.70	0.3364	0.661	1	0.22
4,4'-DDT	16.407	5035.11	0.3510	0.661	1	0.23
Endrin aldehyde	16.625	14038.40	0.7169	0.661	1	0.47
Endosulfan sulfate	17.319	15959.87	0.7149	0.661	1	0.47
Methoxychlor	18.102	33642.88	5.4398	0.661	1	3.60
Endrin ketone	18.588	2807.76	0.1206	0.661	1	0.08
Decachlorobiphenyl	21.613	528644.23	28.5813	0.661	1	18.89
		1369400.02	65.9386			43.58

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\280b063p.TX0

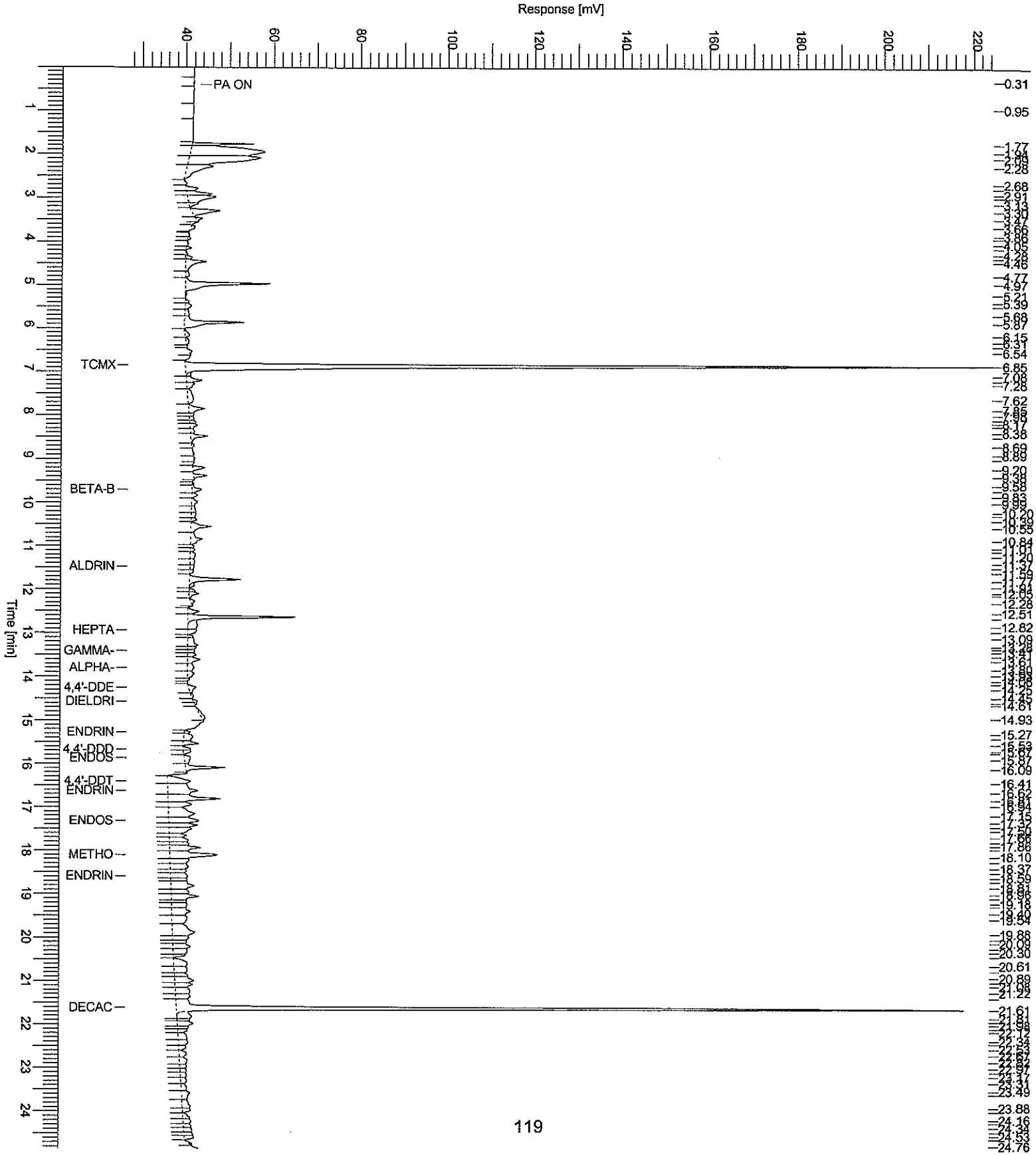
GC16 Rtx-CLPesticides2

Sample Name : 174141-004,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b063.raw
Date : 10/11/04 1:45:46 PM
Method :
Time of Injection: 10/9/04 3:06:51 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 26.35 mV High Point : 224.68 mV
Plot Offset: 26.35 mV Plot Scale: 198.3 mV



GC16 Rtx-CLPesticides2

Sample Name : 174141-004,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b063
Date : 10/11/04 12:38:49 PM
Method : gc16 Time of Injection: 10/9/04 3:06:51 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 26.84 mV High Point : 224.68 mV
Scale Factor: 1.0 Plot Offset: 26.84 mV Plot Scale: 197.8 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-005	Cident	: BB4EX104[0.5]
Seqnum	: 804410063040	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 284_040	Batchnum	: 95271	Injected	: 11-OCT-2004 14:45
IDF	: 20.0			Units	: ug/Kg

Prep: 15.09 g --> 10.0 ml = 0.6627 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=284_007	Flags
alpha-BHC	A	804386835001	ND						34		
beta-BHC	A	804386835001	ND						34		
gamma-BHC	A	804386835001	ND						34		
delta-BHC	A	804386835001	ND						34		
Heptachlor	A	804386835001	ND						34		
Aldrin	A	804386835001	ND						34		
Heptachlor epoxide	A	804386835001	ND						34		
Endosulfan I	A	804386835001	ND						34		
Dieldrin	A	804386835001	ND						66		
4,4'-DDE	A	804386835001	ND						66		
Endrin	A	804386835001	ND						66		
Endosulfan II	B	804386835001	ND						66		u
Endosulfan sulfate	B	804386835001	ND						66		u
4,4'-DDD	A	804386835001	ND						66		
Endrin ketone	A	804386835001	ND						66		<c- b*
4,4'-DDT	A	804386835001	ND						66		<c- b*
Chlordane (Technical)	A		ND						600		
alpha-Chlordane	B	804386835001	ND						34		u
gamma-Chlordane	B	804386835001	ND						34		u
Methoxychlor	A	804386835001	ND						340		v+
Toxaphene	A		ND						1200		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804386835001	13.25	17.56	DO	65-135	u
Decachlorobiphenyl	B	804386835001	13.25	15.19	DO	65-135	u

+=high bias -=low bias <=opening b=noncompliant c=CCV u=use v=ICV

Analyst: [signature] Date: 10/12/04 Reviewer: [signature] Date: 10/12/04

Page 1 of 1

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-005	Cident	: BB4EX104[0.5]
Seqnum	: 804410063040	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 284_040	Batchnum	: 95271	Injected	: 11-OCT-2004 14:45
IDF	: 20.0			Units	: ug/Kg

Prep: 15.09 g --> 10.0 ml = 0.6627 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=284_007	Flags
alpha-BHC	B	804386835001	ND						34		?>c
beta-BHC	B	804386835001	ND						34		?>c
gamma-BHC	B	804386835001	ND						34		?>c
delta-BHC	B	804386835001	ND						34		?>c
Heptachlor	B	804386835001	ND						34		?>c
Aldrin	B	804386835001	ND						34		?>c
Heptachlor epoxide	B	804386835001	ND						34		?>c
Endosulfan I	B	804386835001	ND						34		?>c
Dieldrin	B	804386835001	ND						66		?>c
4,4'-DDE	B	804386835001	ND						66		?>c ?>p
Endrin	B	804386835001	ND						66		?>c ?>p
Endosulfan II	B	804386835001	ND						66		?>c
Endosulfan sulfate	B	804386835001	ND						66		?>c
4,4'-DDD	B	804386835001	ND						66		?>c ?>p
Endrin ketone	B	804386835001	ND						66		?>c ?>p
4,4'-DDT	B	804386835001	ND						66		?>c ?>p
Chlordane (Technical)	B		ND						600		
alpha-Chlordane	B	804386835001	ND						34		?>c
gamma-Chlordane	B	804386835001	ND						34		?>c
Methoxychlor	B	804386835001	ND						340		?>c
Toxaphene	B		ND						1200		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804386835001	13.25	17.56	DO	65-135	?>c
Decachlorobiphenyl	B	804386835001	13.25	15.19	DO	65-135	?>c

>=closing ?=missing c=CCV p=PEM failure

Analyst: PV Date: 10/11/04 Reviewer: CW Date: 10/11/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-005,95271
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 40

Date : 10/11/04 3:59:29 PM
Data Acquisition Time : 10/11/04 2:45:23 PM
Channel : A
Operator : analyst
Dilution Factor : 20.000000

Result File : G:\gc23\CHA\284a040p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.816	13557.91	1.4458	0.663	20	19.16
alpha-BHC	9.401	378.00	0.0260	0.663	20	0.34
gamma-BHC	10.341	624.63	0.0476	0.663	20	0.63
beta-BHC	10.584	0.00	0.0000	0.663	20	0.00
delta-BHC	11.075	326.00	0.0248	0.663	20	0.33
Heptachlor	11.638	2585.50	0.2403	0.663	20	3.18
Aldrin	12.471	225.00	0.0186	0.663	20	0.25
Heptachlor epoxide	14.051	1079.50	0.0957	0.663	20	1.27
gamma-Chlordane	14.363	10933.34	0.9600	0.663	20	12.72
alpha-Chlordane	14.691	14549.66	1.3193	0.663	20	17.49
4,4'-DDE	14.912	812.00	0.0744	0.663	20	0.99
Endosulfan I	15.035	768.30	0.0740	0.663	20	0.98
Dieldrin	15.651	2847.00	0.2521	0.663	20	3.34
Endrin	16.215	0.00	0.0000	0.663	20	0.00
4,4'-DDD	16.417	1168.55	0.1237	0.663	20	1.64
Endosulfan II	16.799	969.45	0.0994	0.663	20	1.32
4,4'-DDT	17.100	8661.68	1.1315	0.663	20	15.00
Endrin aldehyde	17.849	258.41	0.0337	0.663	20	0.45
Methoxychlor	18.324	444.87	0.1316	0.663	20	1.74
Endosulfan sulfate	18.930	10035.98	1.1649	0.663	20	15.44
Endrin ketone	19.593	667.90	0.0637	0.663	20	0.84
Decachlorobiphenyl	21.582	7505.56	1.1299	0.663	20	14.98
		78399.24	8.4572			112.09

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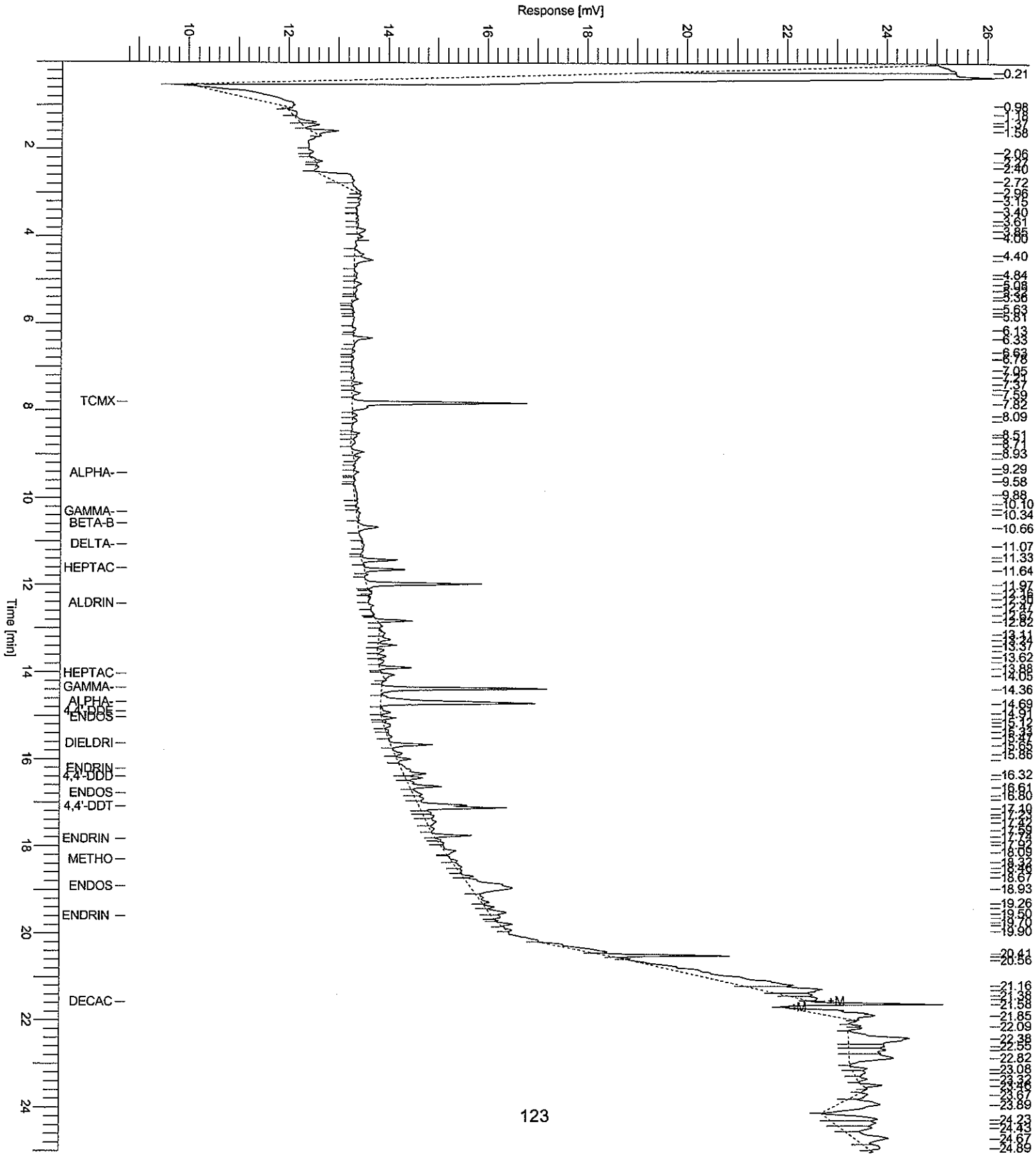
Report stored in ASCII file: G:\gc23\CHA\284a040p.TX0

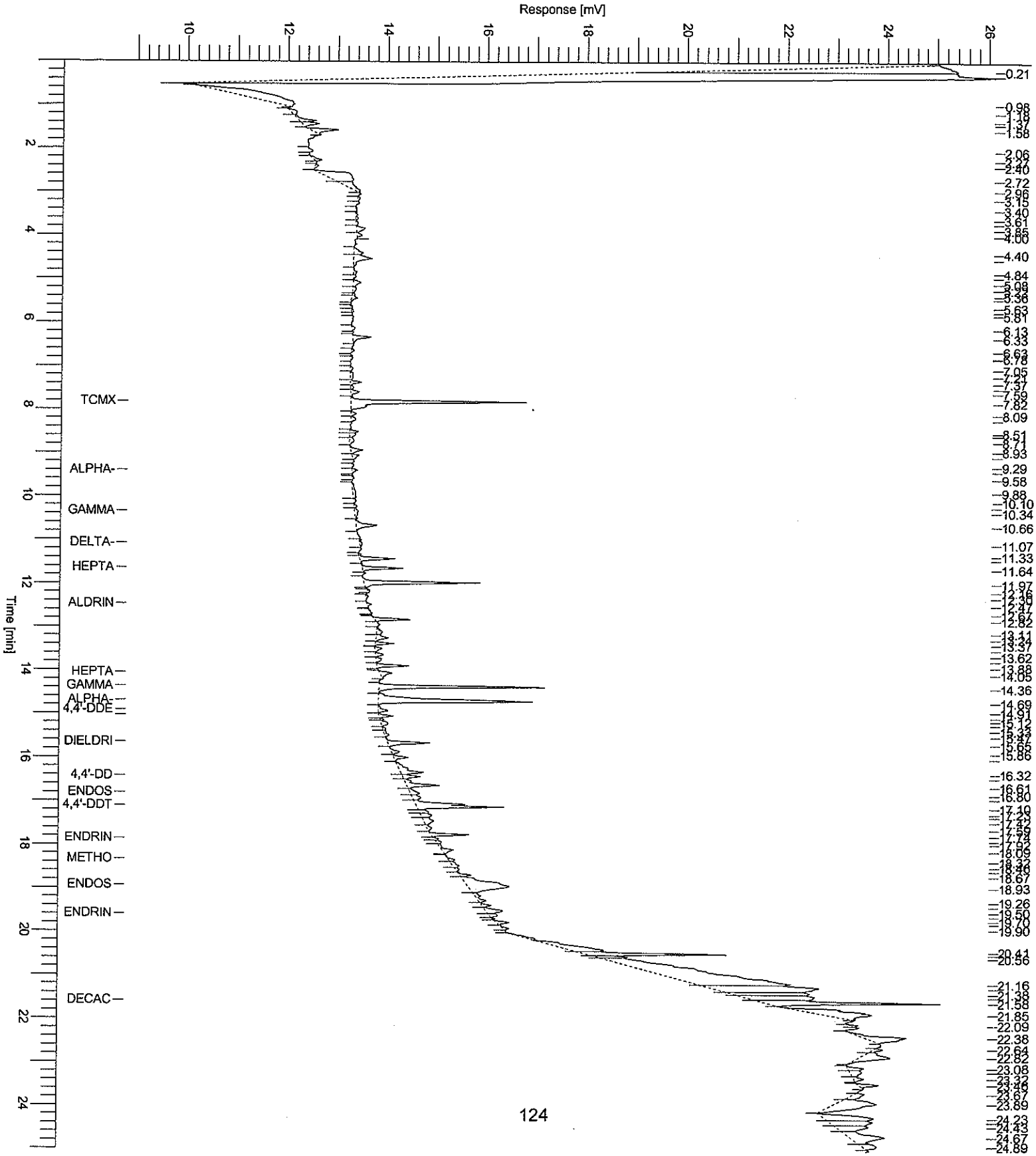
GC23 Rtx-CLPesticides

Sample Name : 175141-005,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHA\284a040.raw
Date : 10/11/04 3:59:33 PM
Method :
Time of Injection: 10/11/04 2:45:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 8.79 mV High Point : 26.12 mV
Plot Offset: 8.79 mV Plot Scale: 17.3 mV



GC23 Rtx-CLPesticides

Sample Name : 175141-005,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHA\284a040.raw
Date : 10/11/04 3:56:12 PM
Method : gc23ins Time of Injection: 10/11/04 2:45:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 8.83 mV High Point : 26.12 mV
Scale Factor: 1.0 Plot Offset: 8.83 mV Plot Scale: 17.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-005,95271
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 40

Date : 10/11/04 3:57:15 PM
Data Acquisition Time : 10/11/04 2:45:23 PM
Channel : B
Operator : analyst
Dilution Factor : 20.000000

Result File : G:\gc23\CHB\284b040p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.734	12401.00	1.3250	0.663	20	17.56
alpha-BHC	9.418	0.00	0.0000	0.663	20	0.00
gamma-BHC	10.385	0.00	0.0000	0.663	20	0.00
beta-BHC	10.599	744.00	0.1285	0.663	20	1.70
delta-BHC	11.376	397.00	0.0306	0.663	20	0.41
Heptachlor	11.555	1755.00	0.2050	0.663	20	2.72
Aldrin	12.346	309.00	0.0254	0.663	20	0.34
Heptachlor epoxide	13.867	584.38	0.0525	0.663	20	0.70
gamma-Chlordane	14.338	11067.17	0.9587	0.663	20	12.71
alpha-Chlordane	14.715	9776.13	0.8785	0.663	20	11.64
Endosulfan I	14.849	304.44	0.0292	0.663	20	0.39
4,4'-DDE	15.177	757.36	0.0692	0.663	20	0.92
Dieldrin	15.526	3060.62	0.2757	0.663	20	3.65
Endrin	16.315	571.18	0.0699	0.663	20	0.93
4,4'-DDD	16.601	1447.36	0.1577	0.663	20	2.09
Endosulfan II	16.800	650.65	0.0675	0.663	20	0.90
4,4'-DDT	17.366	4569.33	0.6895	0.663	20	9.14
Endrin aldehyde	17.608	1983.53	0.2590	0.663	20	3.43
Endosulfan sulfate	18.313	2231.14	0.2561	0.663	20	3.39
Methoxychlor	19.067	780.76	0.2551	0.663	20	3.38
Endrin ketone	19.595	1132.26	0.1095	0.663	20	1.45
Decachlorobiphenyl	22.027	6996.20	1.1464	0.663	20	15.19
		61518.50	6.9891			92.63

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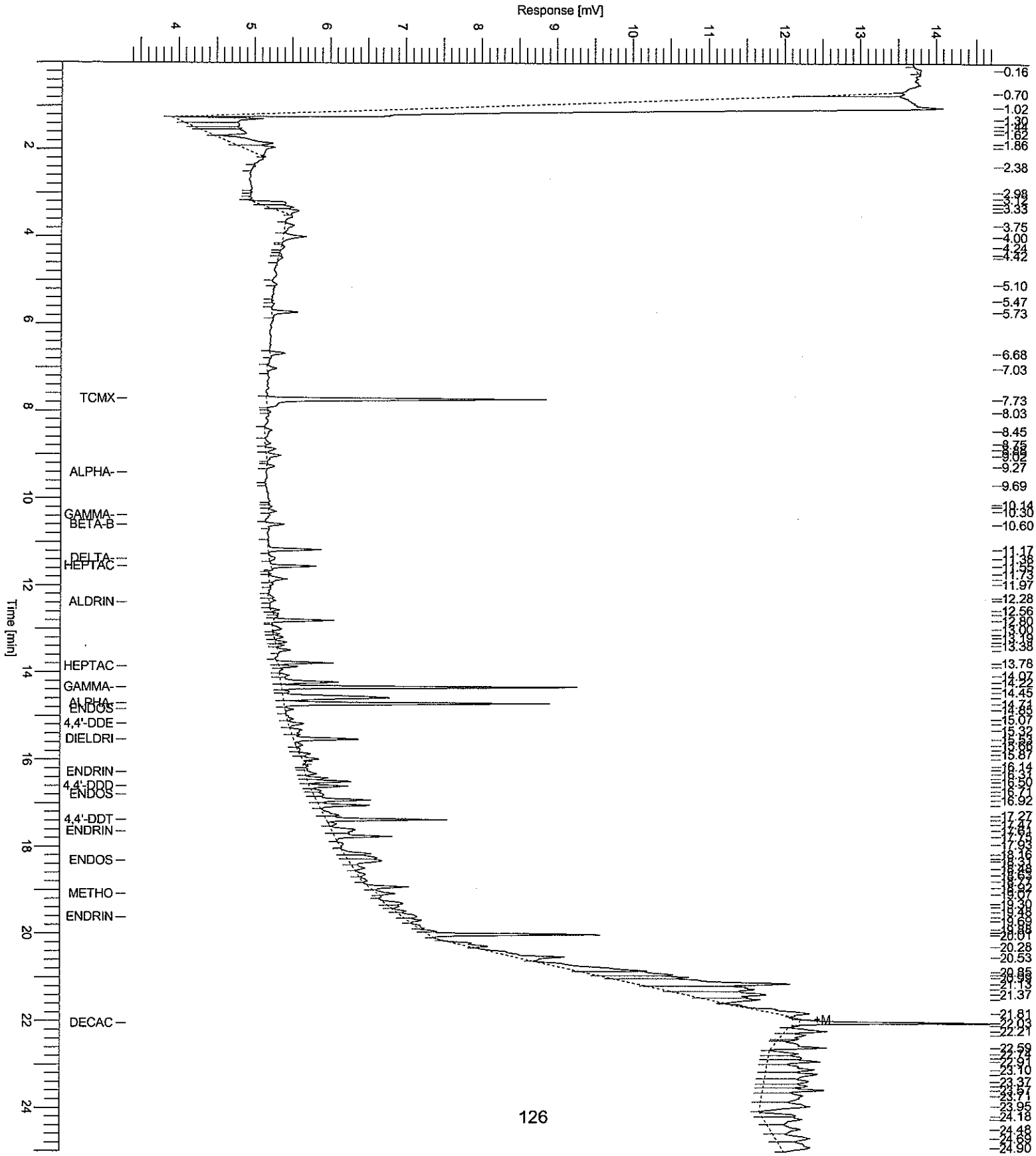
Report stored in ASCII file: G:\gc23\CHB\284b040p.TX0

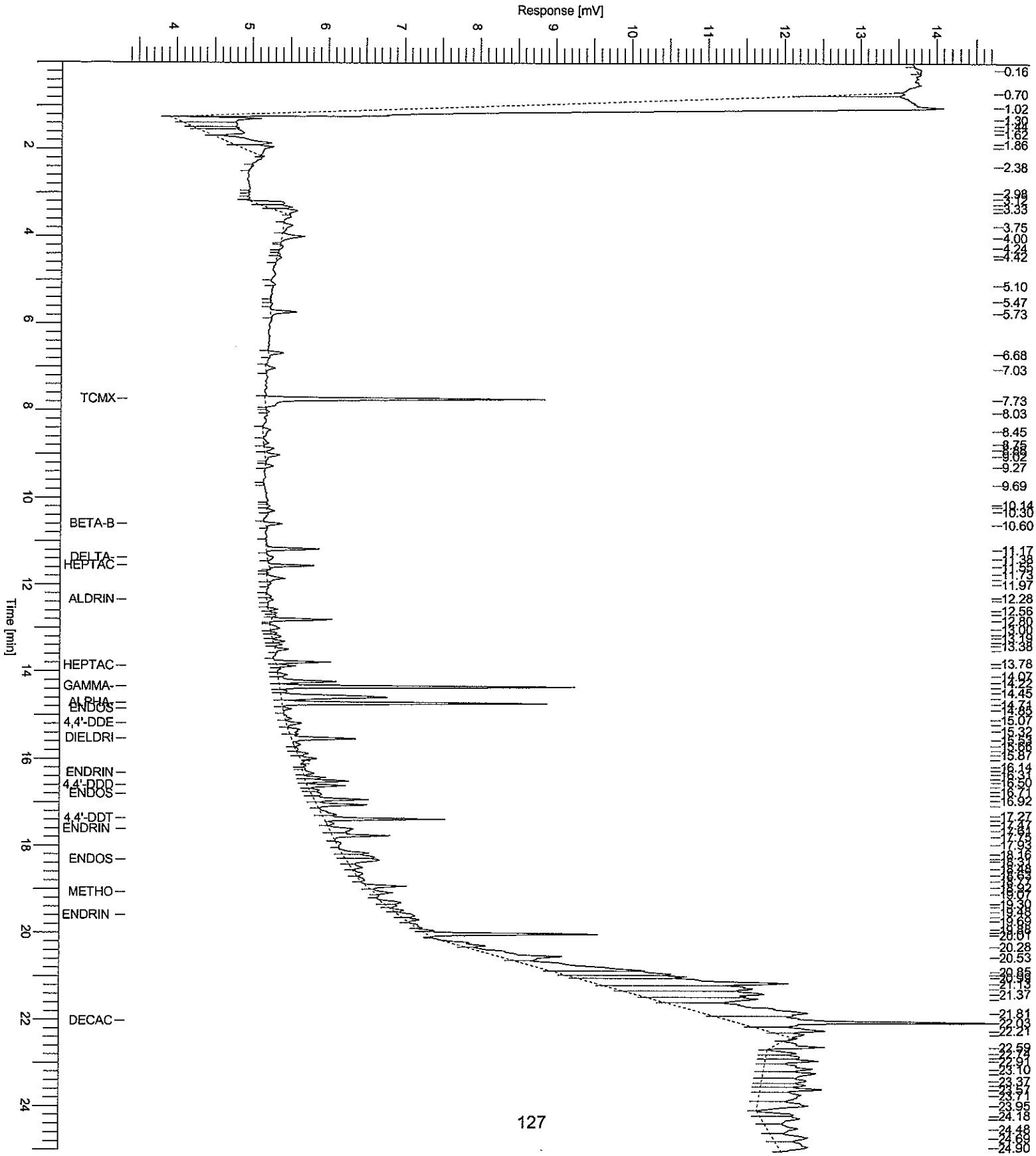
GC23 Rtx-CLPesticides2

Sample Name : 175141-005,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHB\284b040.raw
Date : 10/11/04 3:57:18 PM
Method :
Time of Injection: 10/11/04 2:45:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 3.33 mV High Point : 14.74 mV
Plot Offset: 3.33 mV Plot Scale: 11.4 mV



GC23 Rtx-CLPesticides2

Sample Name : 175141-005,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHB\284b040.raw
Date : 10/11/04 3:56:22 PM
Method : gc23ins Time of Injection: 10/11/04 2:45:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 3.36 mV High Point : 14.74 mV
Scale Factor: 1.0 Plot Offset: 3.36 mV Plot Scale: 11.4 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC16	Samplenum:	175141-006	Cident	: BB4EX105[0.5]
Seqnum	: 234403952064	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 280_064	Batchnum	: 95271	Injected	: 09-OCT-2004 03:36
IDF	: 1.0			Units	: ug/Kg

Prep: 14.79 g --> 10.0 ml = 0.6761 ml/g PDF

Analyte	Ch	Calibration	Result	Conf	Result	RPD	RL	B=???????	Flags
alpha-BHC	B	234402633001	ND				1.7		?B
beta-BHC	B	234402633001	ND				1.7		?B
gamma-BHC	B	234402633001	ND				1.7		?B
delta-BHC	B	234402633001	ND				1.7		?B
Heptachlor	B	234402633001	ND				1.7		?B
Aldrin	B	234402633001	ND				1.7		?B
Heptachlor epoxide	B	234402633001	ND				1.7		?B
Endosulfan I	B	234402633001	ND				1.7		?B
Dieldrin	B	234402633001	ND				3.3		?B
4,4'-DDE	B	234402633001	ND				3.3		>p ?B
Endrin	B	234402633001	ND				3.3		?B
Endosulfan II	B	234402633001	ND				3.3		?B
Endosulfan sulfate	B	234402633001	ND				3.3		?B
4,4'-DDD	B	234402633001	ND				3.3		>p ?B
Endrin ketone	B	234402633001	ND				3.3		?B
4,4'-DDT	B	234402633001	ND				3.3		>p ?B
Chlordane (Technical)	B		ND				30		?B
alpha-Chlordane	B	234402633001	ND				1.7		?B
gamma-Chlordane	B	234402633001	ND				1.7		?B
Methoxychlor	B	234402633001	ND				17		?B
Toxaphene	B		ND				61		?B

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	234402633001	13.52	16.29	120	65-135	
Decachlorobiphenyl	B	234402633001	13.52	18.97	140*	65-135	

>=closing ?B=can't find method blank p=PEM failure

Analyst: CW Date: 10/11/04 Reviewer: CW Date: 10/11/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 174141-006,95271
Instrument Name : GC16
Rack/Vial : 1/64
Sample Amount : 1.000000
Cycle : 64

Date : 10/11/04 1:49:34 PM
Data Acquisition Time : 10/9/04 3:36:56 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\280a064p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.891	197425.80	23.7860	0.676	1	16.08
alpha-BHC	8.414	0.00	0.0000	0.676	1	0.00
gamma-BHC	9.263	644.69	0.0734	0.676	1	0.05
beta-BHC	9.536	0.00	0.0000	0.676	1	0.00
delta-BHC	9.993	1580.19	0.1892	0.676	1	0.13
Heptachlor	10.522	0.00	0.0000	0.676	1	0.00
Aldrin	11.260	231.23	0.0278	0.676	1	0.02
Heptachlor epoxide	12.889	837.42	0.0953	0.676	1	0.06
gamma-Chlordane	13.202	6667.56	0.7349	0.676	1	0.50
alpha-Chlordane	13.487	809.25	0.0890	0.676	1	0.06
4,4'-DDE	13.746	1479.19	0.1893	0.676	1	0.13
Endosulfan I	13.852	11.36	0.0012	0.676	1	0.00
Dieldrin	14.444	2262.49	0.2755	0.676	1	0.19
Endrin	14.990	1503.41	0.2145	0.676	1	0.15
4,4'-DDD	15.229	424.22	0.0727	0.676	1	0.05
Endosulfan II	15.558	380.67	0.0488	0.676	1	0.03
4,4'-DDT	15.906	0.00	0.0000	0.676	1	0.00
Endrin aldehyde	16.565	17064.79	2.5343	0.676	1	1.71
Methoxychlor	17.120	0.00	0.0000	0.676	1	0.00
Endosulfan sulfate	17.668	7552.51	1.0639	0.676	1	0.72
Endrin ketone	18.310	37383.10	4.8249	0.676	1	3.26
Decachlorobiphenyl	20.760	175192.31	21.5887	0.676	1	14.60
		451450.19	55.8093			37.73

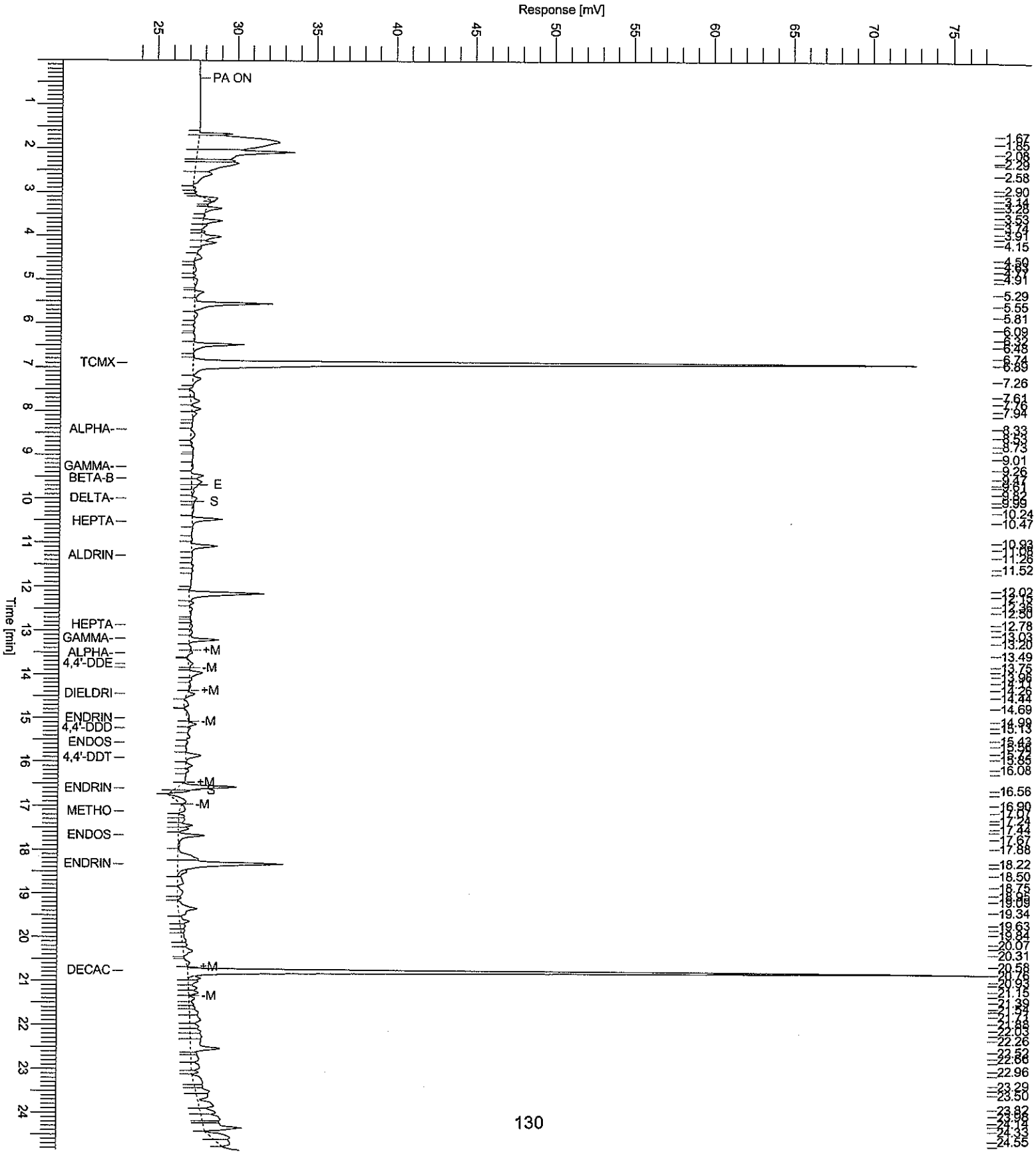
GP
10/11/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\280a064p.TX0

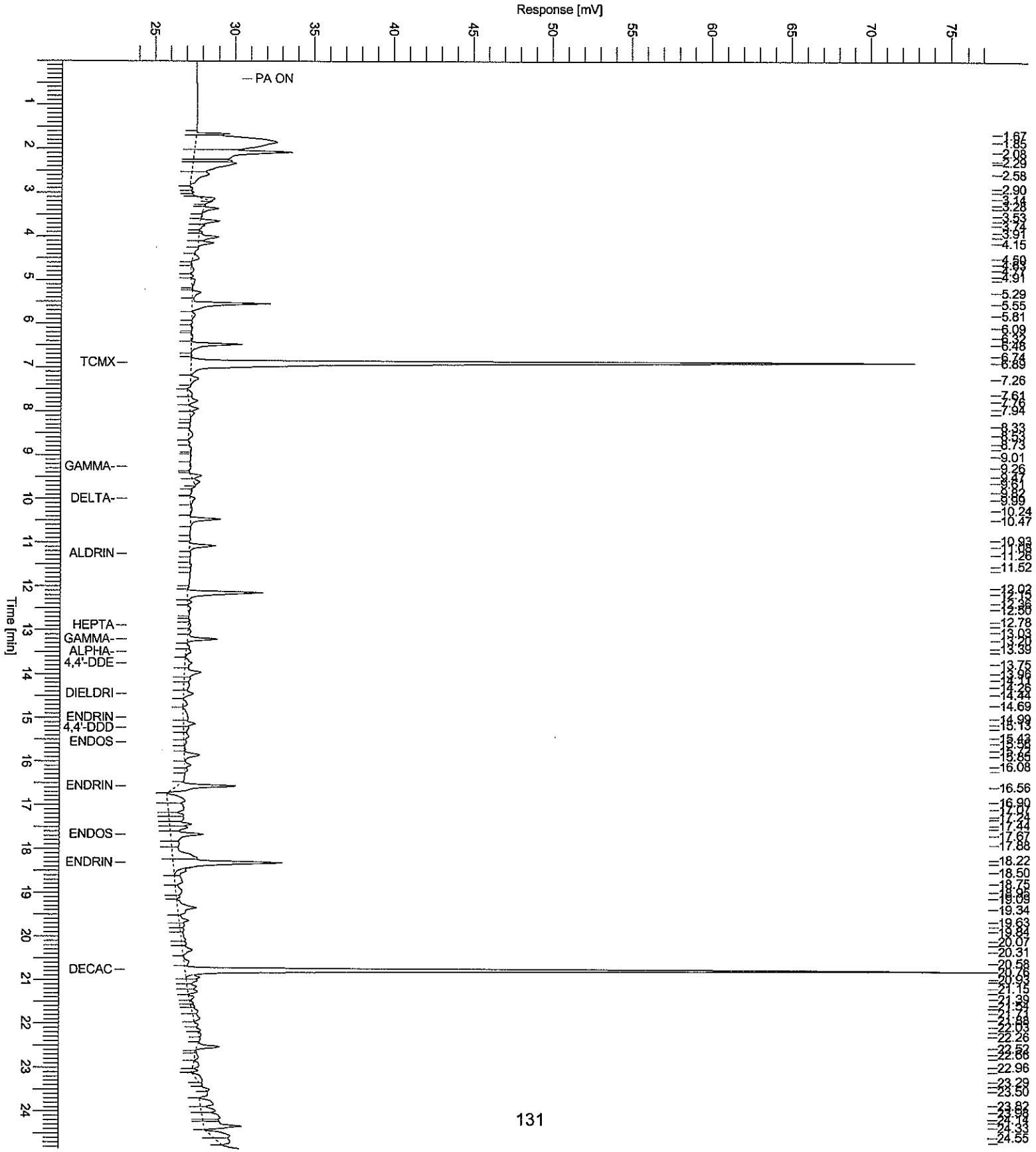
GC16 Rtx-CLPesticides

Sample Name : 174141-006,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a064.raw
Date : 10/11/04 1:49:39 PM
Method :
Time of Injection: 10/9/04 3:36:56 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 23.16 mV High Point : 77.53 mV
Plot Offset: 23.16 mV Plot Scale: 54.4 mV



GC16 Rtx-CLPesticides

Sample Name : 174141-006,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\cha\280a064.raw
Date : 10/11/04 12:38:04 PM
Method : gc16 Time of Injection: 10/9/04 3:36:56 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 23.29 mV High Point : 77.53 mV
Scale Factor: 1.0 Plot Offset: 23.29 mV Plot Scale: 54.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 174141-006,95271
Instrument Name : GC16
Rack/Vial : 1/64
Sample Amount : 1.000000
Cycle : 64

Date : 10/11/04 1:47:09 PM
Data Acquisition Time : 10/9/04 3:36:56 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\280b064p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	620709.38	24.0992	0.676	1	16.29
alpha-BHC	8.543	401.22	0.0111	0.676	1	0.01
gamma-BHC	9.483	0.00	0.0000	0.676	1	0.00
beta-BHC	9.699	16460.64	0.9059	0.676	1	0.61
delta-BHC	10.501	2419.86	0.0696	0.676	1	0.05
Heptachlor	10.628	492.66	0.0221	0.676	1	0.01
Aldrin	11.443	9188.66	0.2933	0.676	1	0.20
Heptachlor epoxide	12.934	12331.04	0.4158	0.676	1	0.28
gamma-Chlordane	13.402	2990.33	0.0930	0.676	1	0.06
alpha-Chlordane	13.762	3744.74	0.1184	0.676	1	0.08
Endosulfan I	13.929	21238.41	0.7540	0.676	1	0.51
4,4'-DDE	14.246	10249.42	0.3851	0.676	1	0.26
Dieldrin	14.556	9474.24	0.3483	0.676	1	0.24
Endrin	15.265	5157.37	0.2275	0.676	1	0.15
4,4'-DDD	15.654	0.00	0.0000	0.676	1	0.00
Endosulfan II	15.864	10699.64	0.4345	0.676	1	0.29
4,4'-DDT	16.413	0.00	0.0000	0.676	1	0.00
Endrin aldehyde	16.628	10173.59	0.5196	0.676	1	0.35
Endosulfan sulfate	17.320	14179.59	0.6351	0.676	1	0.43
Methoxychlor	18.103	51592.71	8.3421	0.676	1	5.64
Endrin ketone	18.590	9054.77	0.3888	0.676	1	0.26
Decachlorobiphenyl	21.613	519069.71	28.0636	0.676	1	18.97
		1329627.98	66.1271			44.71

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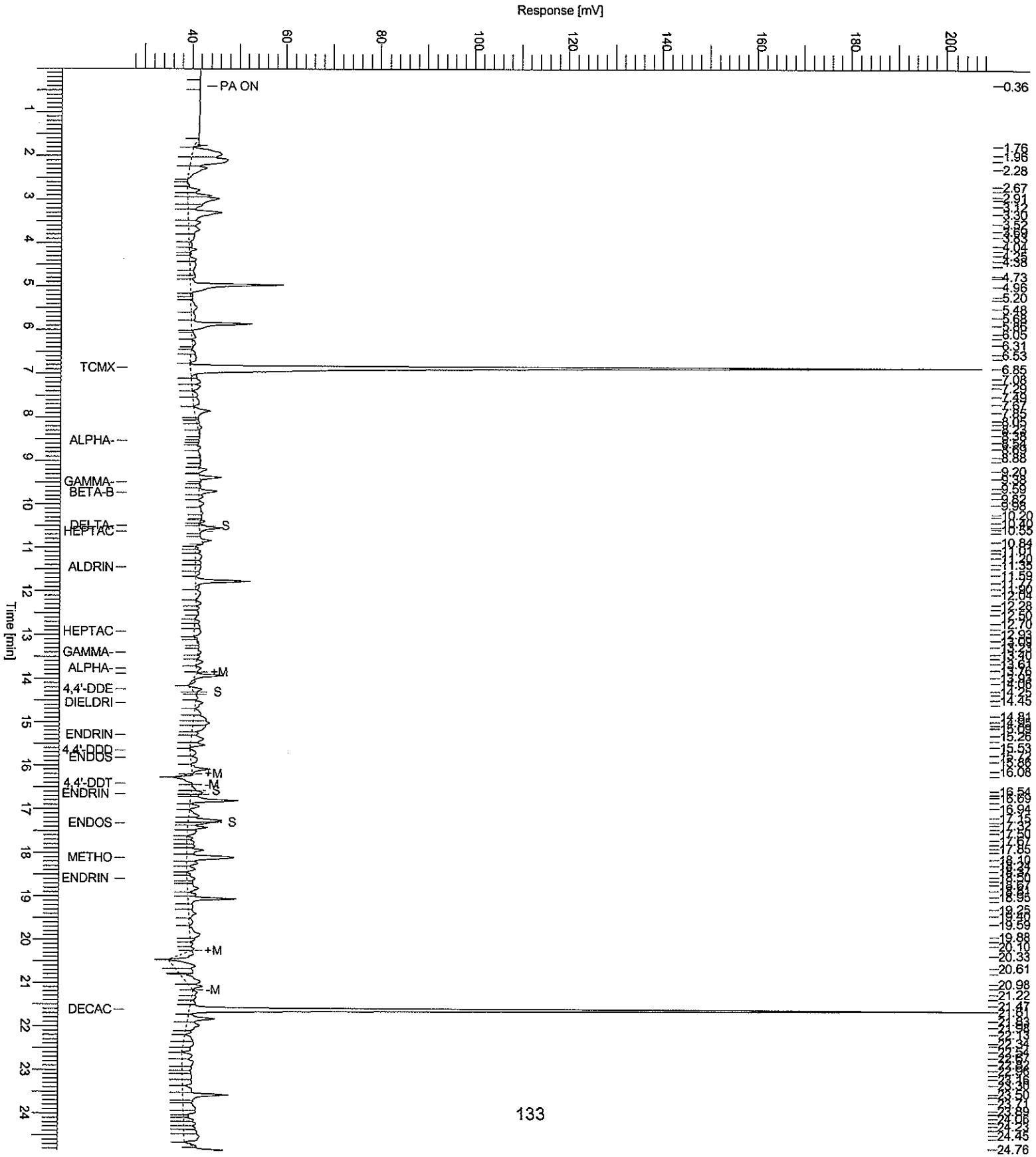
Report stored in ASCII file: G:\gc16\chb\280b064p.TX0

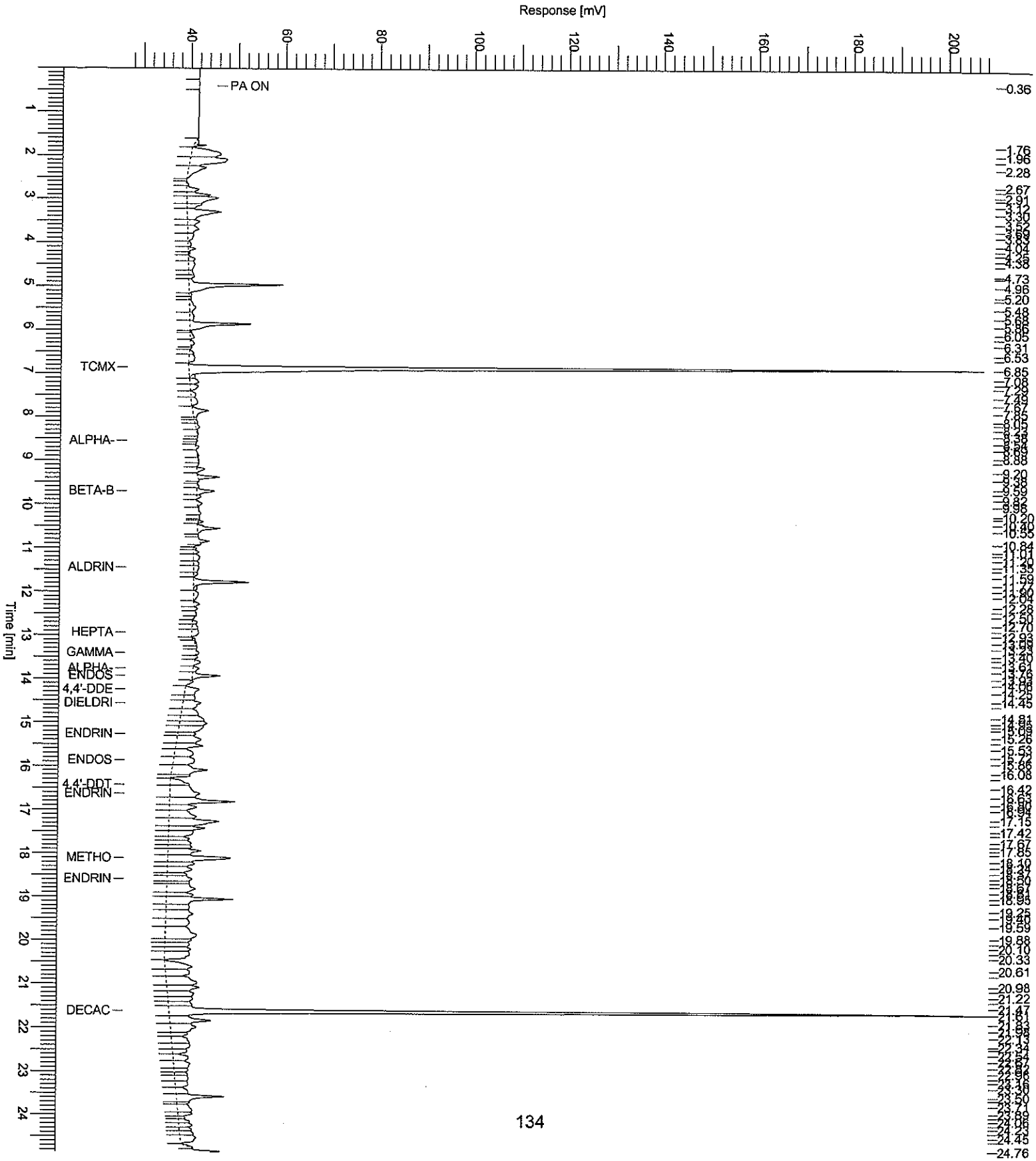
GC16 Rtx-CLPesticides2

Sample Name : 174141-006,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b064.raw
Date : 10/11/04 1:47:14 PM
Method :
Time of Injection: 10/9/04 3:36:56 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 26.40 mV High Point : 209.60 mV
Plot Offset: 26.40 mV Plot Scale: 183.2 mV



GC16 Rtx-CLPesticides2

Sample Name : 174141-006,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc16\chb\280b064
Date : 10/11/04 12:38:55 PM
Method : gc16 Time of Injection: 10/9/04 3:36:56 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 26.86 mV High Point : 209.60 mV
Scale Factor: 1.0 Plot Offset: 26.86 mV Plot Scale: 182.7 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-007	Cident	: BB4EX106[0.5]
Seqnum	: 804410063038	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 284_038	Batchnum	: 95271	Injected	: 11-OCT-2004 13:45
IDF	: 1.0			Units	: ug/Kg

Prep: 15.15 g --> 10.0 ml = 0.6601 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=284_007	Flags
alpha-BHC	A	804386835001	ND						1.7		
beta-BHC	A	804386835001	ND						1.7		
gamma-BHC	A	804386835001	ND						1.7		
delta-BHC	A	804386835001	ND						1.7		
Heptachlor	A	804386835001	ND						1.7		
Aldrin	A	804386835001	ND						1.7		
Heptachlor epoxide	A	804386835001	ND						1.7		
Endosulfan I	A	804386835001	ND						1.7		
Dieldrin	A	804386835001	ND						3.3		
4,4'-DDE	A	804386835001	ND						3.3		
Endrin	A	804386835001	ND						3.3		
Endosulfan II	B	804386835001	ND						3.3		u
Endosulfan sulfate	B	804386835001	ND						3.3		u
4,4'-DDD	A	804386835001	ND						3.3		
Endrin ketone	A	804386835001	ND						3.3		<c- b*
4,4'-DDT	A	804386835001	ND						3.3		<c- b*
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	B	804386835001	ND						1.7		u
gamma-Chlordane	B	804386835001	ND						1.7		u
Methoxychlor	A	804386835001	ND						17		v+
Toxaphene	A		ND						59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804386835001	13.20	10.62	80	65-135	u
Decachlorobiphenyl	B	804386835001	13.20	9.438	71	65-135	u

+=high bias -=low bias <=opening b=noncompliant c=CCV u=use v=ICV

Analyst: [illegible] Date: 10/12/04 Reviewer: [illegible] Date: 10/14/04

Page 1 of 1

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-007	Cident	: BB4EX106[0.5]
Seqnum	: 804410063038	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 284_038	Batchnum	: 95271	Injected	: 11-OCT-2004 13:45
IDF	: 1.0			Units	: ug/Kg

Prep: 15.15 g --> 10.0 ml = 0.6601 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=284_007	Flags
alpha-BHC	B	804386835001	ND						1.7		?>c
beta-BHC	B	804386835001	ND						1.7		?>c
gamma-BHC	B	804386835001	ND						1.7		?>c
delta-BHC	B	804386835001	ND						1.7		?>c
Heptachlor	B	804386835001	ND						1.7		?>c
Aldrin	B	804386835001	ND						1.7		?>c
Heptachlor epoxide	B	804386835001	ND						1.7		?>c
Endosulfan I	B	804386835001	ND						1.7		?>c
Dieldrin	B	804386835001	ND						3.3		?>c
4,4'-DDE	B	804386835001	ND						3.3		?>c ?>p
Endrin	B	804386835001	ND						3.3		?>c ?>p
Endosulfan II	B	804386835001	ND						3.3		?>c
Endosulfan sulfate	B	804386835001	ND						3.3		?>c
4,4'-DDD	B	804386835001	ND						3.3		?>c ?>p
Endrin ketone	B	804386835001	ND						3.3		?>c ?>p
4,4'-DDT	B	804386835001	ND						3.3		?>c ?>p
Chlordane (Technical)	B		ND						30		
alpha-Chlordane	B	804386835001	ND						1.7		?>c
gamma-Chlordane	B	804386835001	ND						1.7		?>c
Methoxychlor	B	804386835001	ND						17		?>c
Toxaphene	B		ND						59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804386835001	13.20	10.62	80	65-135	?>c
Decachlorobiphenyl	B	804386835001	13.20	9.438	71	65-135	?>c

>=closing ?=missing c=CCV p=PEM failure

Analyst: [illegible] Date: 10/11/04 Reviewer: [illegible] Date: 10/14/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-007,95271
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 38

Date : 10/11/04 3:58:29 PM
Data Acquisition Time : 10/11/04 1:45:13 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a038p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.833	135507.98	14.4500	0.660	1	9.54
alpha-BHC	9.477	1153.25	0.0794	0.660	1	0.05
gamma-BHC	10.362	2326.00	0.1773	0.660	1	0.12
beta-BHC	10.584	0.00	0.0000	0.660	1	0.00
delta-BHC	11.109	3243.11	0.2470	0.660	1	0.16
Heptachlor	11.662	1733.71	0.1611	0.660	1	0.11
Aldrin	12.475	1915.98	0.1583	0.660	1	0.10
Heptachlor epoxide	14.063	2955.11	0.2620	0.660	1	0.17
gamma-Chlordane	14.366	14393.30	1.2638	0.660	1	0.83
alpha-Chlordane	14.709	6421.24	0.5823	0.660	1	0.38
4,4'-DDE	14.923	3562.28	0.3265	0.660	1	0.22
Endosulfan I	15.061	2097.97	0.2021	0.660	1	0.13
Dieldrin	15.666	5126.83	0.4540	0.660	1	0.30
Endrin	16.246	3443.95	0.3942	0.660	1	0.26
4,4'-DDD	16.428	3271.62	0.3464	0.660	1	0.23
Endosulfan II	16.812	2853.00	0.2926	0.660	1	0.19
4,4'-DDT	17.115	5955.00	0.7779	0.660	1	0.51
Endrin aldehyde	17.855	2806.73	0.3663	0.660	1	0.24
Methoxychlor	18.321	6254.58	1.8507	0.660	1	1.22
Endosulfan sulfate	18.937	3940.26	0.4573	0.660	1	0.30
Endrin ketone	19.615	5102.89	0.4867	0.660	1	0.32
Decachlorobiphenyl	21.586	67090.87	10.1004	0.660	1	6.67
		281155.66	33.4363			22.07

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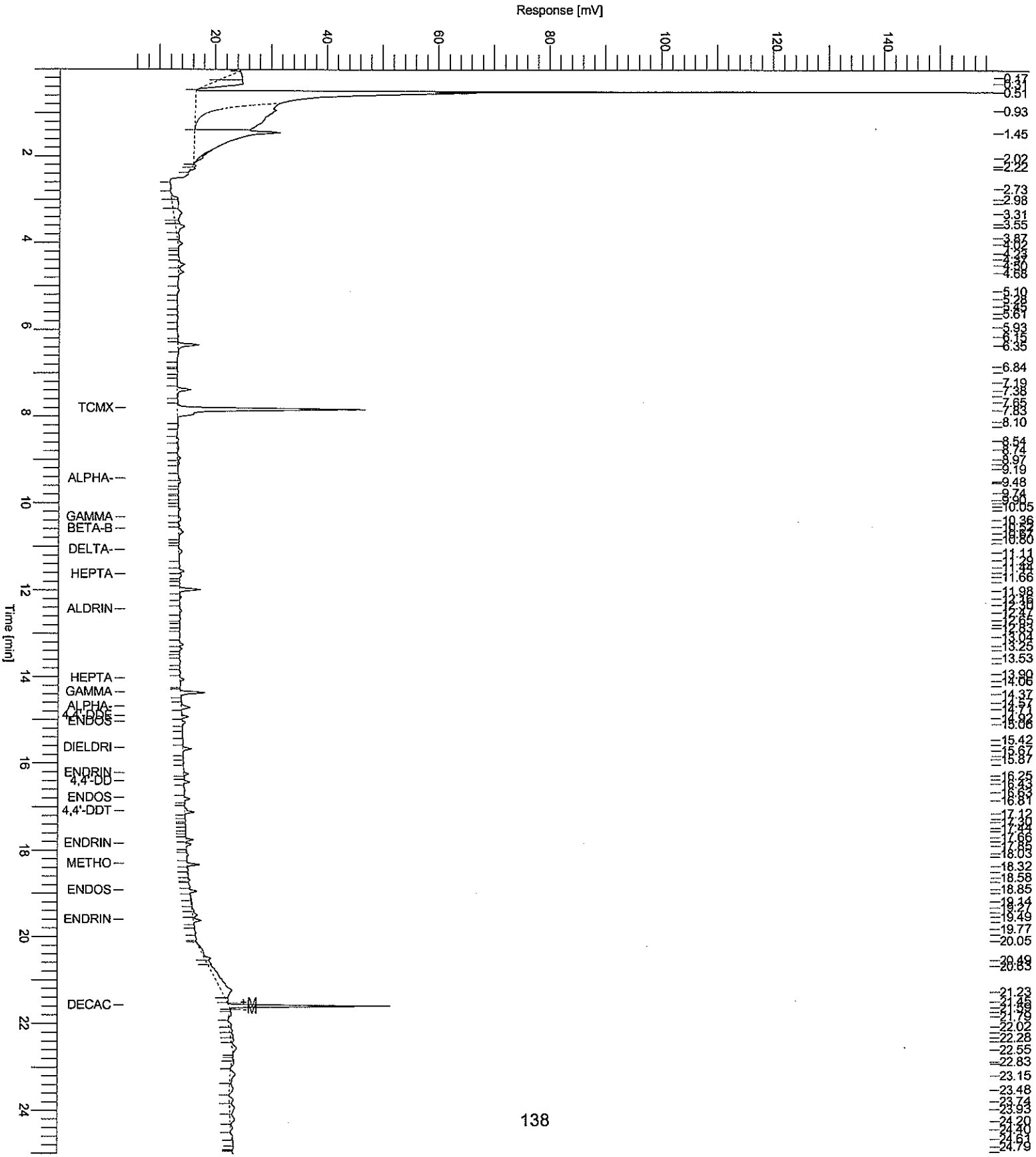
Report stored in ASCII file: G:\gc23\CHA\284a038p.TX0

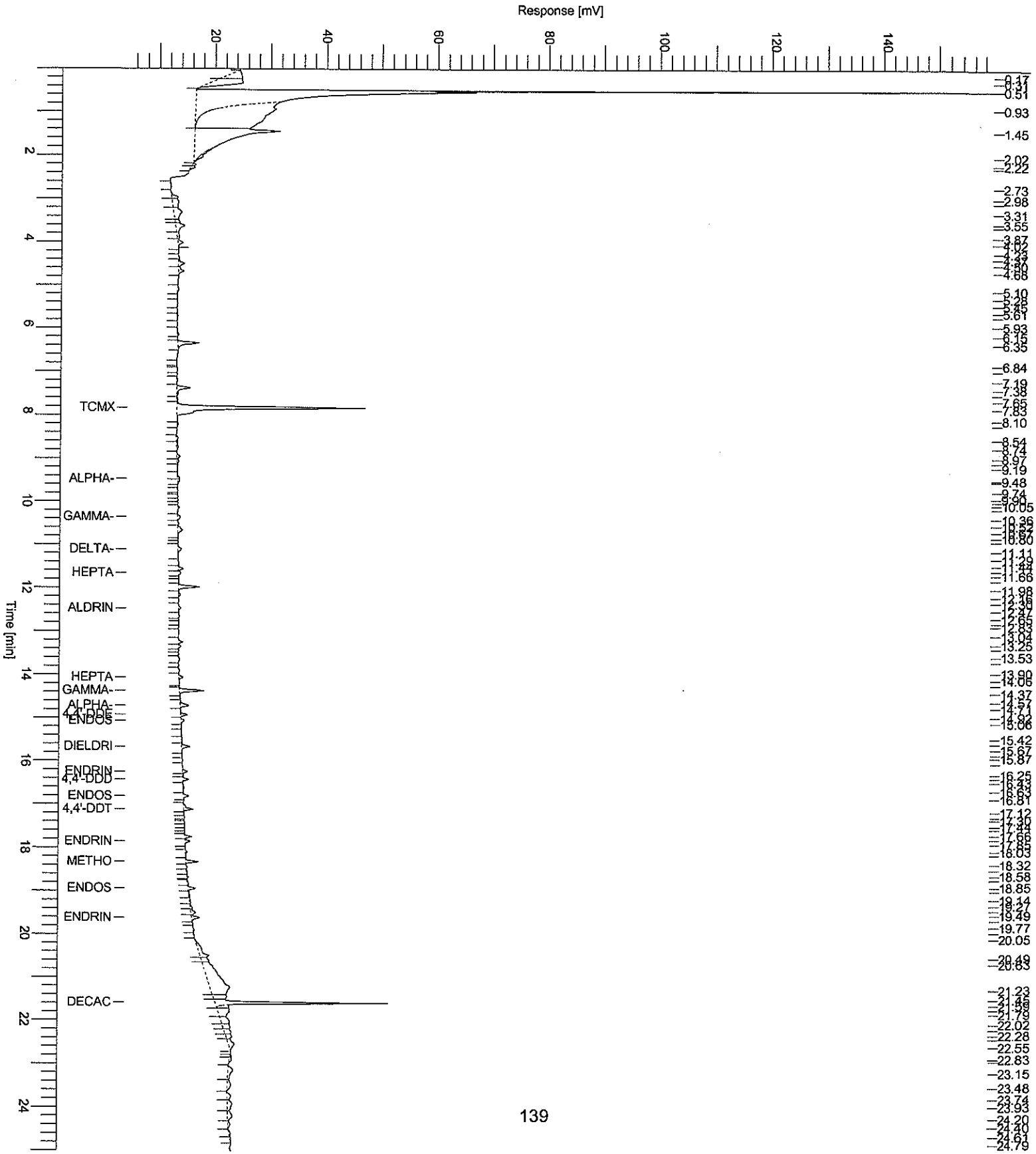
GC23 Rtx-CLPesticides

Sample Name : 175141-007,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHA\284a038.raw
Date : 10/11/04 3:58:33 PM
Method :
Time of Injection: 10/11/04 1:45:13 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.04 mV High Point : 159.35 mV
Plot Offset: 4.04 mV Plot Scale: 155.3 mV



GC23 Rtx-CLPesticides

Sample Name : 175141-007,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHA\284a038.raw
Date : 10/11/04 3:56:04 PM
Method : gc23ins Time of Injection: 10/11/04 1:45:13 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.43 mV High Point : 159.36 mV
Scale Factor: 1.0 Plot Offset: 4.43 mV Plot Scale: 154.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-007,95271
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 38

Date : 10/11/04 3:56:13 PM
Data Acquisition Time : 10/11/04 1:45:13 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHb\284b038.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.737	150595.35	16.0901	0.660	1	10.62
alpha-BHC	9.429	669.24	0.0468	0.660	1	0.03
gamma-BHC	10.397	693.33	0.0536	0.660	1	0.04
beta-BHC	10.603	1506.45	0.2602	0.660	1	0.17
delta-BHC	11.423	2601.53	0.2007	0.660	1	0.13
Heptachlor	11.559	930.08	0.1086	0.660	1	0.07
Aldrin	12.388	116.00	0.0095	0.660	1	0.01
Heptachlor epoxide	13.873	685.48	0.0616	0.660	1	0.04
gamma-Chlordane	14.347	4670.01	0.4046	0.660	1	0.27
alpha-Chlordane	14.718	4314.82	0.3877	0.660	1	0.26
Endosulfan I	14.868	857.15	0.0822	0.660	1	0.05
4,4'-DDE	15.184	1529.19	0.1397	0.660	1	0.09
Dieldrin	15.531	2467.50	0.2222	0.660	1	0.15
Endrin	16.289	866.76	0.1061	0.660	1	0.07
4,4'-DDD	16.603	1545.82	0.1684	0.660	1	0.11
Endosulfan II	16.803	1153.07	0.1197	0.660	1	0.08
4,4'-DDT	17.369	3524.50	0.5319	0.660	1	0.35
Endrin aldehyde	17.635	1398.85	0.1827	0.660	1	0.12
Endosulfan sulfate	18.323	2403.39	0.2759	0.660	1	0.18
Methoxychlor	19.078	3106.86	1.0150	0.660	1	0.67
Endrin ketone	19.618	1072.00	0.1037	0.660	1	0.07
Decachlorobiphenyl	22.031	87258.31	14.2983	0.660	1	9.44
		273965.69	34.8691			23.02

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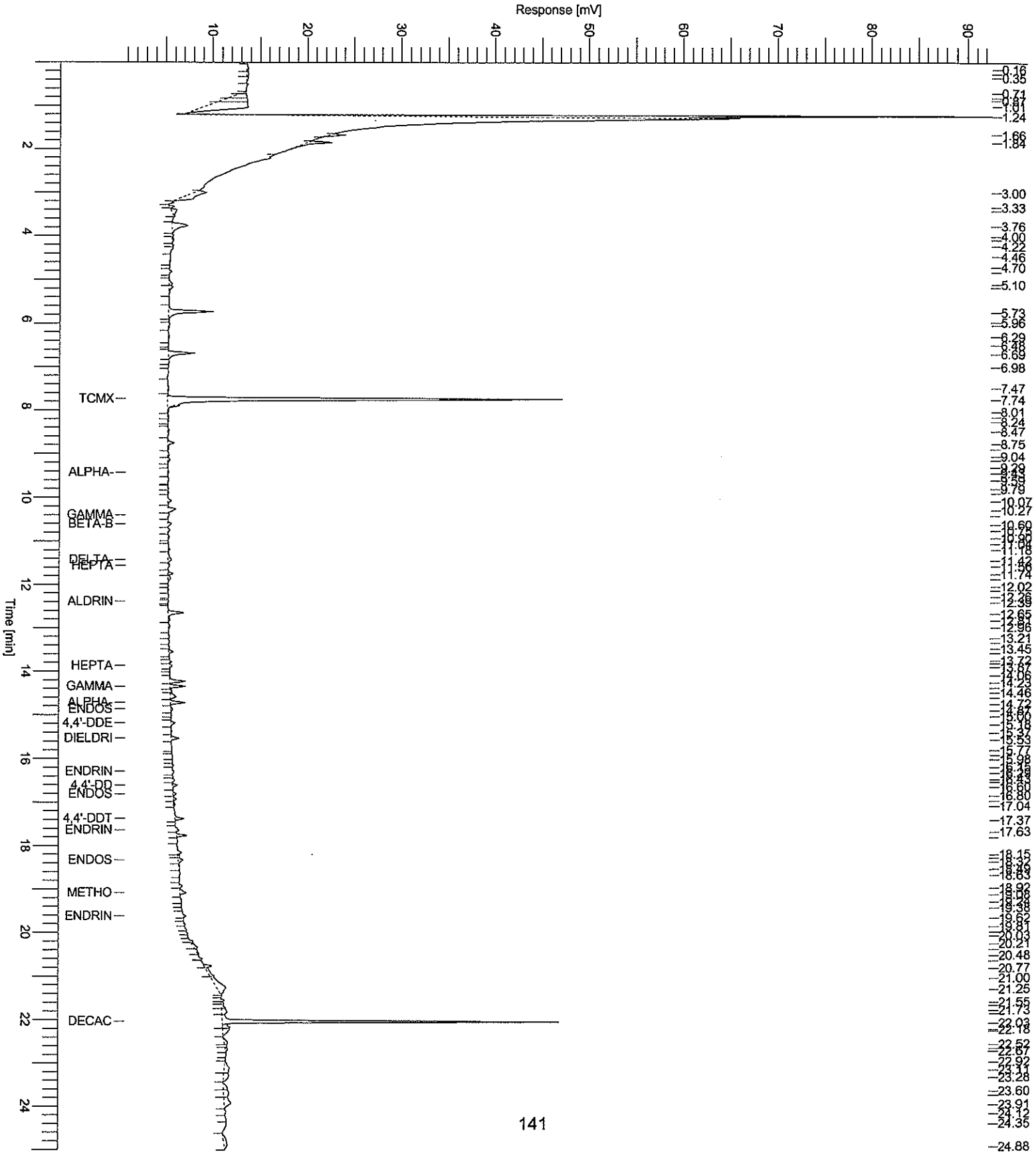
Report stored in ASCII file: G:\gc23\CHb\284b038.TX0

GC23 Rtx-CLPesticides2

Sample Name : 175141-007,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHB\284b038.raw
Date : 10/11/04 3:56:15 PM
Method : gc23ins Time of Injection: 10/11/04 1:45:13 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.82 mV High Point : 92.58 mV
Scale Factor: 1.0 Plot Offset: 0.82 mV Plot Scale: 91.8 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 804414114011	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 287_011	Batchnum	: 95382	Injected	: 13-OCT-2004 20:12
IDF	: 1.0			Units	: ug/Kg

Prep: 15.16 g --> 10.0 ml = 0.6596 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B-287_008	Flags
alpha-BHC	B	804412857001	ND						1.7		
beta-BHC	B	804412857001	ND						1.7		
gamma-BHC	B	804412857001	ND						1.7		
delta-BHC	B	804412857001	ND						1.7		
Heptachlor	B	804412857001	ND						1.7		
Aldrin	B	804412857001	ND						1.7		
Heptachlor epoxide	B	804412857001	ND						1.7		
Endosulfan I	B	804412857001	ND						1.7		
Dieldrin	B	804412857001	ND						3.3		
4,4'-DDE	B	804412857001	ND						3.3		
Endrin	B	804412857001	ND						3.3		
Endosulfan II	B	804412857001	ND						3.3		
Endosulfan sulfate	B	804412857001	ND						3.3		
4,4'-DDD	B	804412857001	ND						3.3		
Endrin ketone	B	804412857001	ND						3.3		
4,4'-DDT	B	804412857001	ND						3.3		
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	B	804412857001	ND						1.7		
gamma-Chlordane	B	804412857001	ND						1.7		
Methoxychlor	B	804412857001	ND						17		
Toxaphene	A		ND						59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804412857001	13.19	12.01	91	65-135	
Decachlorobiphenyl	B	804412857001	13.19	11.93	90	65-135	

Analyst: [signature] Date: 10/14/04 Reviewer: [signature] Date: 10/21/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-009,95382
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 10/14/04 12:55:15 PM
Data Acquisition Time : 10/13/04 8:12:23 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a011p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.629	164501.67	17.8977	0.660	1	11.81
alpha-BHC	9.238	0.00	0.0000	0.660	1	0.00
gamma-BHC	10.092	1154.00	0.0889	0.660	1	0.06
beta-BHC	10.430	2415.76	0.4326	0.660	1	0.29
delta-BHC	10.906	3902.44	0.3017	0.660	1	0.20
Heptachlor	11.414	2933.39	0.2598	0.660	1	0.17
Aldrin	12.210	3002.38	0.2541	0.660	1	0.17
Heptachlor epoxide	13.824	0.00	0.0000	0.660	1	0.00
gamma-Chlordane	14.144	2517.94	0.2271	0.660	1	0.15
alpha-Chlordane	14.472	268.88	0.0252	0.660	1	0.02
4,4'-DDE	14.699	595.37	0.0565	0.660	1	0.04
Endosulfan I	14.832	1146.40	0.1132	0.660	1	0.07
Dieldrin	15.426	953.36	0.0875	0.660	1	0.06
Endrin	16.022	714.07	0.0827	0.660	1	0.05
4,4'-DDD	16.196	0.00	0.0000	0.660	1	0.00
Endosulfan II	16.563	346.24	0.0372	0.660	1	0.02
4,4'-DDT	16.883	0.00	0.0000	0.660	1	0.00
Endrin aldehyde	17.612	982.16	0.1316	0.660	1	0.09
Methoxychlor	18.101	1912.27	0.5194	0.660	1	0.34
Endosulfan sulfate	18.714	184.00	0.0221	0.660	1	0.01
Endrin ketone	19.382	653.57	0.0634	0.660	1	0.04
Decachlorobiphenyl	21.404	103103.98	15.8862	0.660	1	10.48
		291287.89	36.4867			24.07

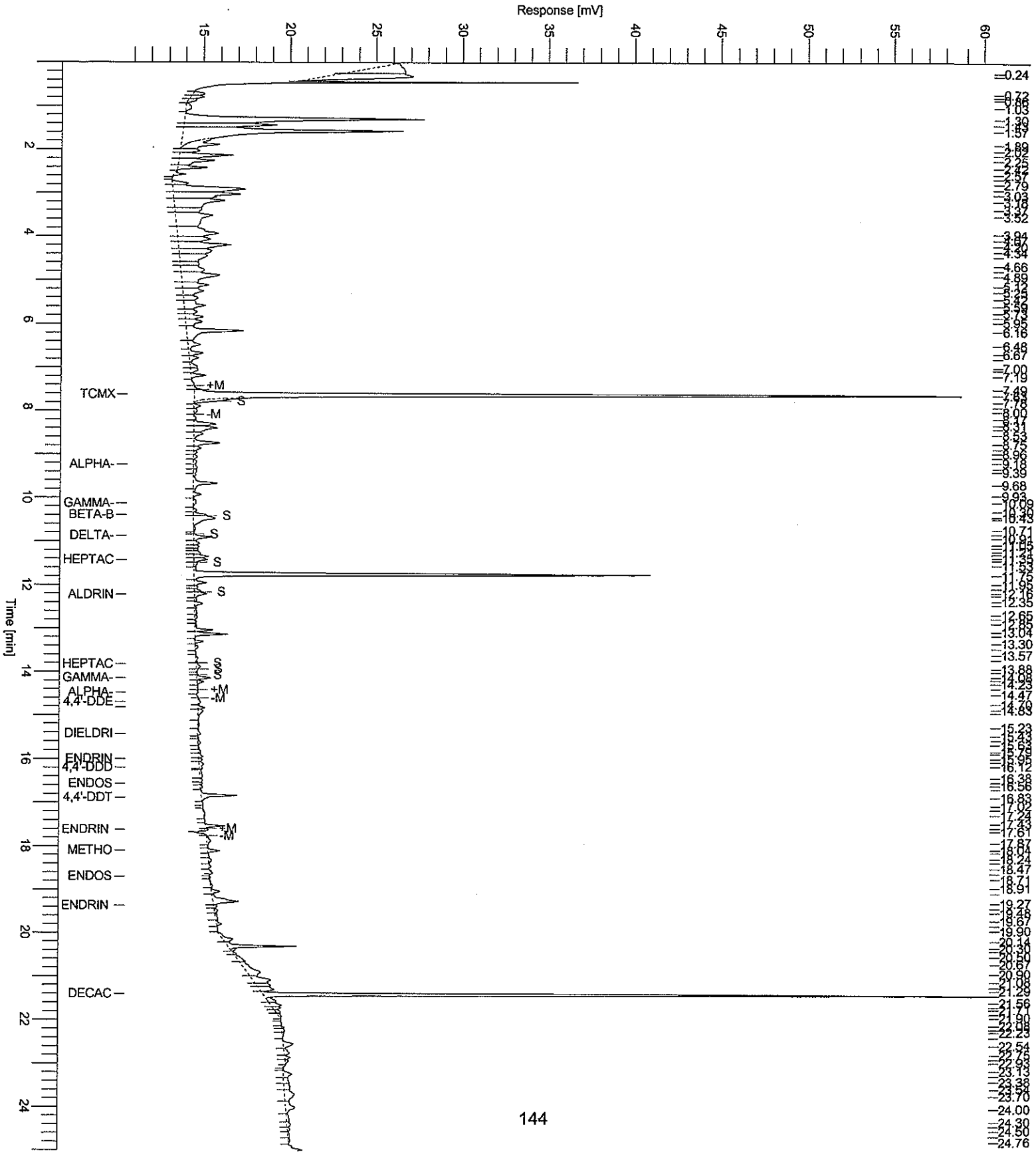
10/14/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\287a011p.TX0

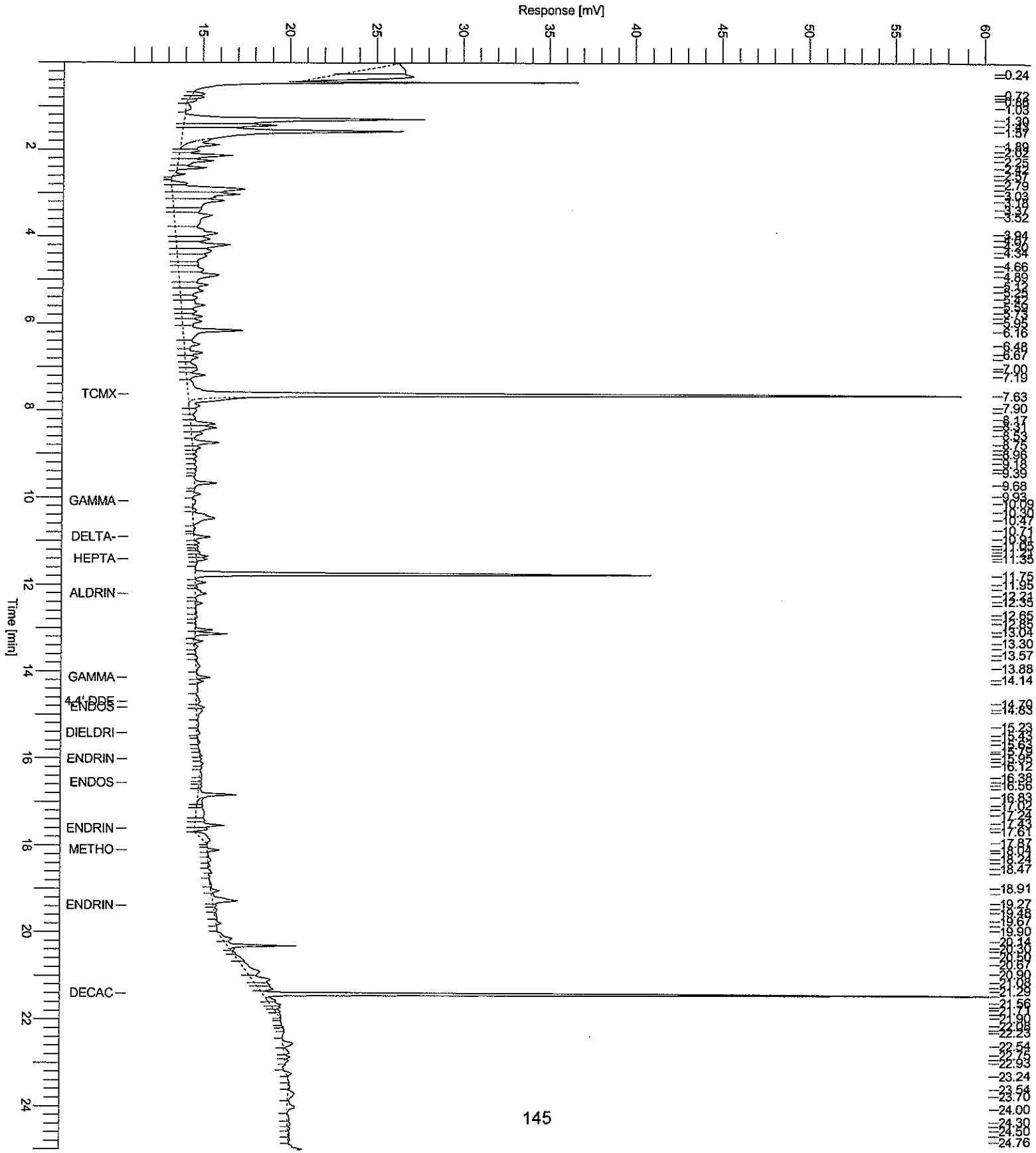
GC23 Rtx-CLPesticides

Sample Name : 175141-009,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHa\287a011.raw
Date : 10/14/04 12:55:20 PM
Method : Time of Injection: 10/13/04 8:12:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.64 mV High Point : 60.56 mV
Plot Offset: 10.64 mV Plot Scale: 49.9 mV



GC23 Rtx-CLPesticides

Sample Name : 175141-009,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHa\287a011.raw
Date : 10/14/04 10:45:40 AM
Method : gc23ins Time of Injection: 10/13/04 8:12:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.77 mV High Point : 60.56 mV
Scale Factor: 1.0 Plot Offset: 10.77 mV Plot Scale: 49.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-009,95382
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 10/14/04 12:56:49 PM
Data Acquisition Time : 10/13/04 8:12:23 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b011p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.548	124291.00	18.2010	0.660	1	12.01
alpha-BHC	9.235	0.00	0.0000	0.660	1	0.00
gamma-BHC	10.199	0.00	0.0000	0.660	1	0.00
beta-BHC	10.417	456.22	0.1121	0.660	1	0.07
delta-BHC	11.166	1399.85	0.1547	0.660	1	0.10
Heptachlor	11.362	0.00	0.0000	0.660	1	0.00
Aldrin	12.194	0.00	0.0000	0.660	1	0.00
Heptachlor epoxide	13.668	0.00	0.0000	0.660	1	0.00
gamma-Chlordane	14.151	332.00	0.0405	0.660	1	0.03
alpha-Chlordane	14.520	281.43	0.0353	0.660	1	0.02
Endosulfan I	14.686	907.08	0.1207	0.660	1	0.08
4,4'-DDE	15.004	457.83	0.0578	0.660	1	0.04
Dieldrin	15.331	325.36	0.0402	0.660	1	0.03
Endrin	16.113	116.36	0.0179	0.660	1	0.01
4,4'-DDD	16.411	106.73	0.0165	0.660	1	0.01
Endosulfan II	16.616	155.00	0.0221	0.660	1	0.01
4,4'-DDT	17.181	587.15	0.1071	0.660	1	0.07
Endrin aldehyde	17.442	363.98	0.0651	0.660	1	0.04
Endosulfan sulfate	18.111	0.00	0.0000	0.660	1	0.00
Methoxychlor	18.879	1525.59	0.6032	0.660	1	0.40
Endrin ketone	19.428	216.08	0.0288	0.660	1	0.02
Decachlorobiphenyl	21.869	85420.43	18.0795	0.660	1	11.93
		216942.08	37.7025			24.87

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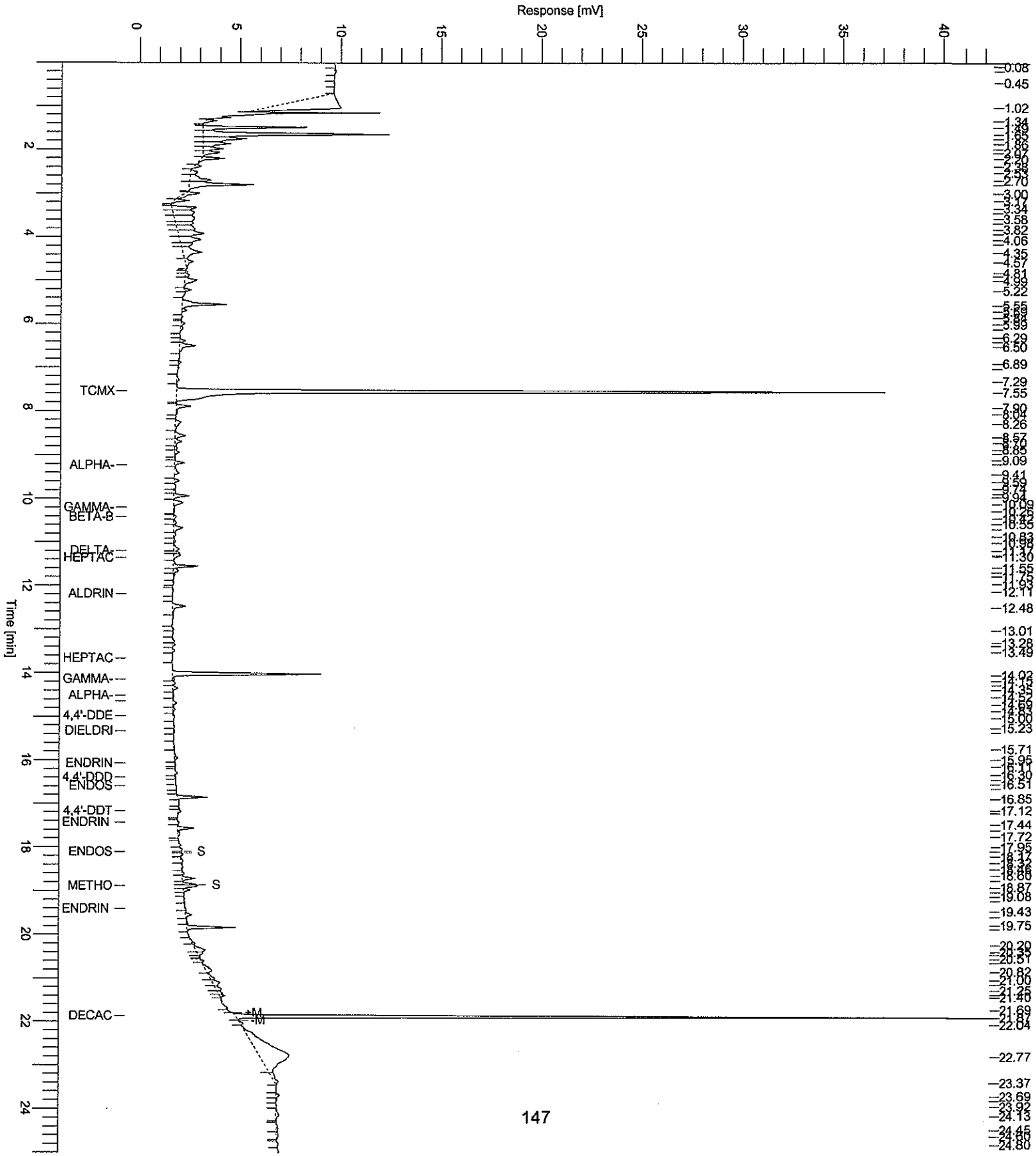
Report stored in ASCII file: G:\gc23\CHB\287b011p.TX0

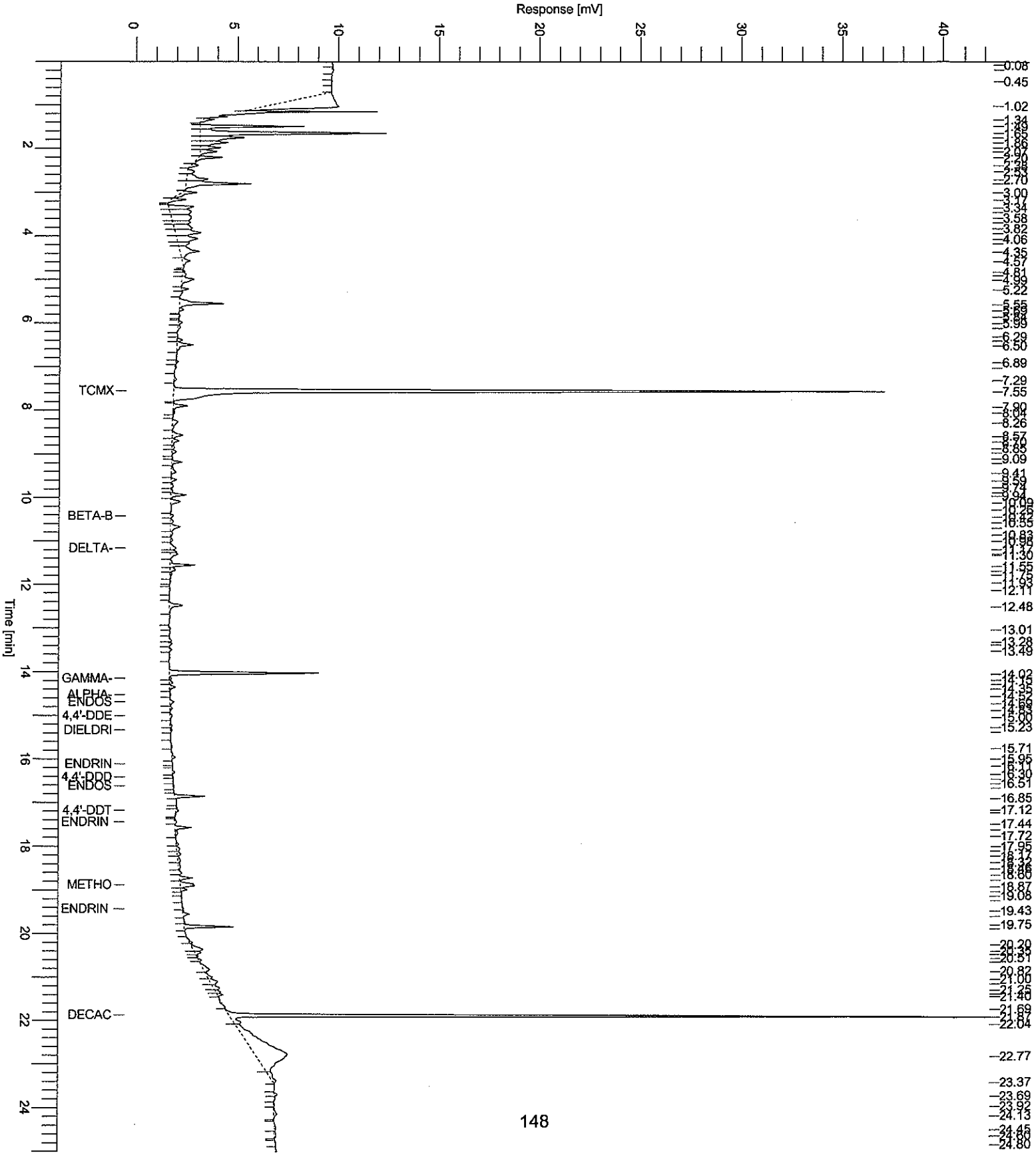
GC23 Rtx-CLPesticides2

Sample Name : 175141-009,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHb\287b011.raw
Date : 10/14/04 12:56:55 PM
Method : Time of Injection: 10/13/04 8:12:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.59 mV High Point : 42.41 mV
Plot Offset: -0.59 mV Plot Scale: 43.0 mV



GC23 Rtx-CLPesticides2

Sample Name : 175141-009,95382 Sample #: 95382 Page 1 of 1
FileName : G:\gc23\CHb\287b011
Date : 10/14/04 10:46:34 AM
Method : gc23ins Time of Injection: 10/13/04 8:12:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.48 mV High Point : 42.41 mV
Scale Factor: 1.0 Plot Offset: -0.48 mV Plot Scale: 42.9 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-010	Cident	: BB4EX107[0.5]
Seqnum	: 804410063039	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 284_039	Batchnum	: 95271	Injected	: 11-OCT-2004 14:15
IDF	: 1.0			Units	: ug/Kg

Prep: 14.88 g --> 10.0 ml = 0.672 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=284_007	Flags
alpha-BHC	A	804386835001	ND						1.7		
beta-BHC	A	804386835001	ND						1.7		
gamma-BHC	A	804386835001	ND						1.7		
delta-BHC	A	804386835001	ND						1.7		
Heptachlor	A	804386835001	ND						1.7		
Aldrin	A	804386835001	ND						1.7		
Heptachlor epoxide	A	804386835001	ND						1.7		
Endosulfan I	A	804386835001	ND						1.7		
Dieldrin	A	804386835001	ND						3.3		
4,4'-DDE	A	804386835001	ND						3.3		
Endrin	A	804386835001	ND						3.3		
Endosulfan II	B	804386835001	ND						3.3		u
Endosulfan sulfate	B	804386835001	ND						3.3		u
4,4'-DDD	A	804386835001	ND						3.3		
Endrin ketone	A	804386835001	ND						3.3		<c- b*
4,4'-DDT	A	804386835001	ND						3.3		<c- b*
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	B	804386835001	ND						1.7		u
gamma-Chlordane	B	804386835001	ND						1.7		u
Methoxychlor	A	804386835001	ND						17		v+
Toxaphene	A		ND						60		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804386835001	13.44	19.26	**143***	65-135	u
Decachlorobiphenyl	B	804386835001	13.44	15.56	116	65-135	u

+=high bias -=low bias <=opening b=noncompliant c=CCV u=use v=ICV

Analyst: [illegible] Date: 10/12/04 Reviewer: [illegible] Date: [illegible]

Page 1 of 1

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	175141-010	Cident	: BB4EX107[0.5]
Seqnum	: 804410063039	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 284_039	Batchnum	: 95271	Injected	: 11-OCT-2004 14:15
IDF	: 1.0			Units	: ug/Kg

Prep: 14.88 g --> 10.0 ml = 0.672 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=284_007	Flags
alpha-BHC	B	804386835001	ND					1.7		?>c
beta-BHC.....	B	804386835001	1.9		ND			1.7		?>c C x
gamma-BHC	B	804386835001	ND					1.7		?>c
delta-BHC	B	804386835001	ND					1.7		?>c
Heptachlor	B	804386835001	ND					1.7		?>c
Aldrin	B	804386835001	ND					1.7		?>c
Heptachlor epoxide	B	804386835001	ND					1.7		?>c
Endosulfan I	B	804386835001	ND					1.7		?>c
Dieldrin	B	804386835001	ND					3.3		?>c
4,4'-DDE	B	804386835001	ND					3.3		?>c ?>p
Endrin	B	804386835001	ND					3.3		?>c ?>p
Endosulfan II	B	804386835001	ND					3.3		?>c
Endosulfan sulfate	B	804386835001	ND					3.3		?>c
4,4'-DDD	B	804386835001	ND					3.3		?>c ?>p
Endrin ketone	B	804386835001	ND					3.3		?>c ?>p
4,4'-DDT	B	804386835001	ND					3.3		?>c ?>p
Chlordane (Technical)	B		ND					30		
alpha-Chlordane	B	804386835001	ND					1.7		?>c
gamma-Chlordane	B	804386835001	ND					1.7		?>c
Methoxychlor	B	804386835001	ND					17		?>c
Toxaphene	B		ND					60		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804386835001	13.44	19.26	143*	65-135	?>c
Decachlorobiphenyl	B	804386835001	13.44	15.56	116	65-135	?>c

>=closing ?=missing C=RPD between columns exceeds 40% c=CCV p=PEM failure x=false positive

Analyst: Pa Date: 10/11/04 Reviewer: CW Date: 10/11/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 175141-010,95271
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 39

Date : 10/11/04 4:05:05 PM
Data Acquisition Time : 10/11/04 2:15:19 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a039p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.817	263572.79	28.1063	0.672	1	18.89
alpha-BHC	9.429	0.00	0.0000	0.672	1	0.00
gamma-BHC	10.322	267.00	0.0204	0.672	1	0.01
beta-BHC	10.584	0.00	0.0000	0.672	1	0.00
delta-BHC	11.077	618.50	0.0471	0.672	1	0.03
Heptachlor	11.623	0.00	0.0000	0.672	1	0.00
Aldrin	12.475	839.50	0.0694	0.672	1	0.05
Heptachlor epoxide	14.028	0.00	0.0000	0.672	1	0.00
gamma-Chlordane	14.349	18720.14	1.6437	0.672	1	1.10
alpha-Chlordane	14.683	0.00	0.0000	0.672	1	0.00
4,4'-DDE	14.930	1535.82	0.1408	0.672	1	0.09
Endosulfan I	15.066	249.00	0.0240	0.672	1	0.02
Dieldrin	15.641	965.78	0.0855	0.672	1	0.06
Endrin	16.241	690.05	0.0790	0.672	1	0.05
4,4'-DDD	16.440	544.00	0.0576	0.672	1	0.04
Endosulfan II	16.804	1191.97	0.1223	0.672	1	0.08
4,4'-DDT	17.101	787.71	0.1029	0.672	1	0.07
Endrin aldehyde	17.832	0.00	0.0000	0.672	1	0.00
Methoxychlor	18.316	1685.22	0.4986	0.672	1	0.34
Endosulfan sulfate	18.938	17148.04	1.9904	0.672	1	1.34
Endrin ketone	19.611	920.44	0.0878	0.672	1	0.06
Decachlorobiphenyl	21.584	143203.33	21.5590	0.672	1	14.49
		452939.28	54.6346			36.72

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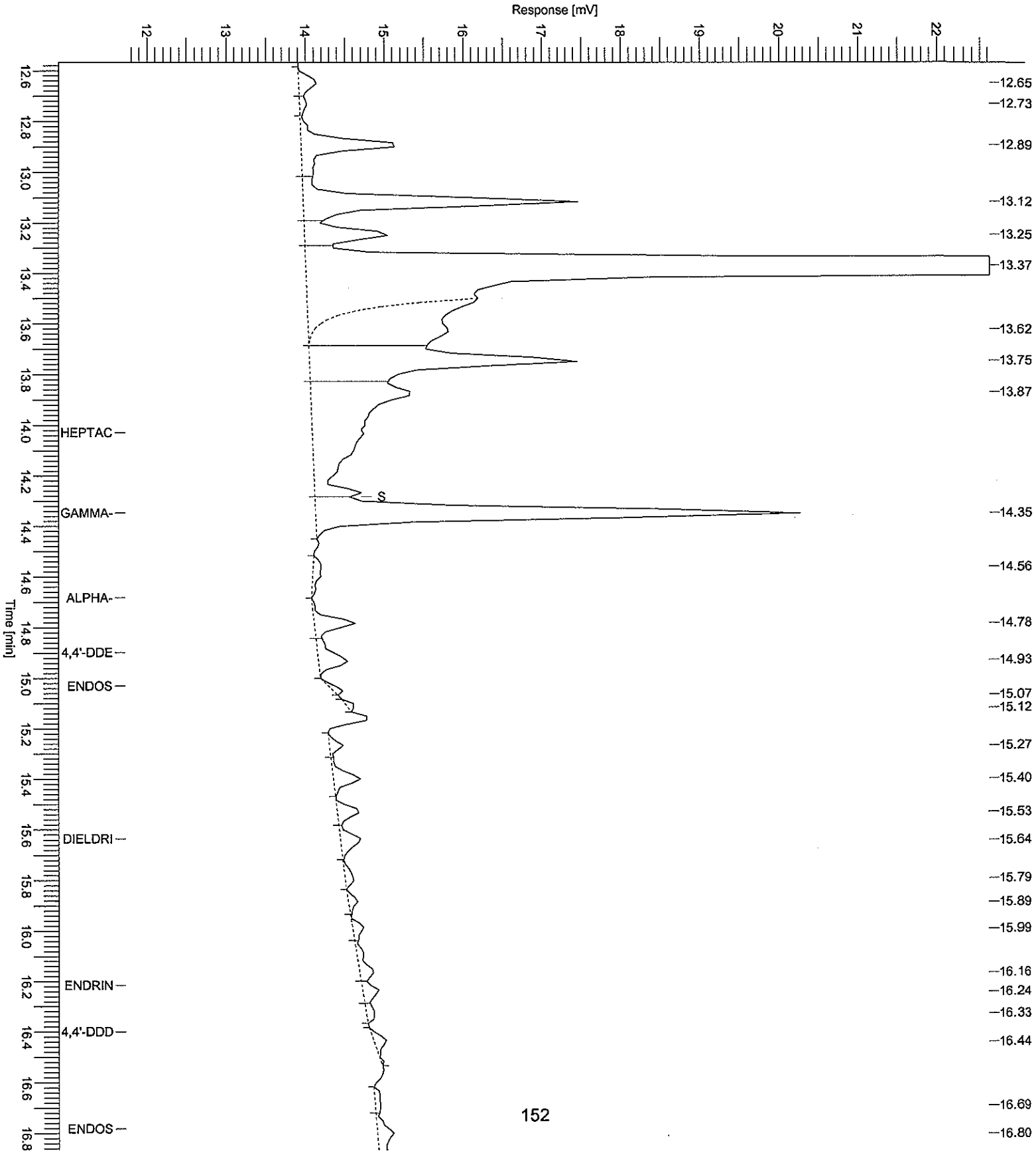
Report stored in ASCII file: G:\gc23\CHA\284a039p.TX0

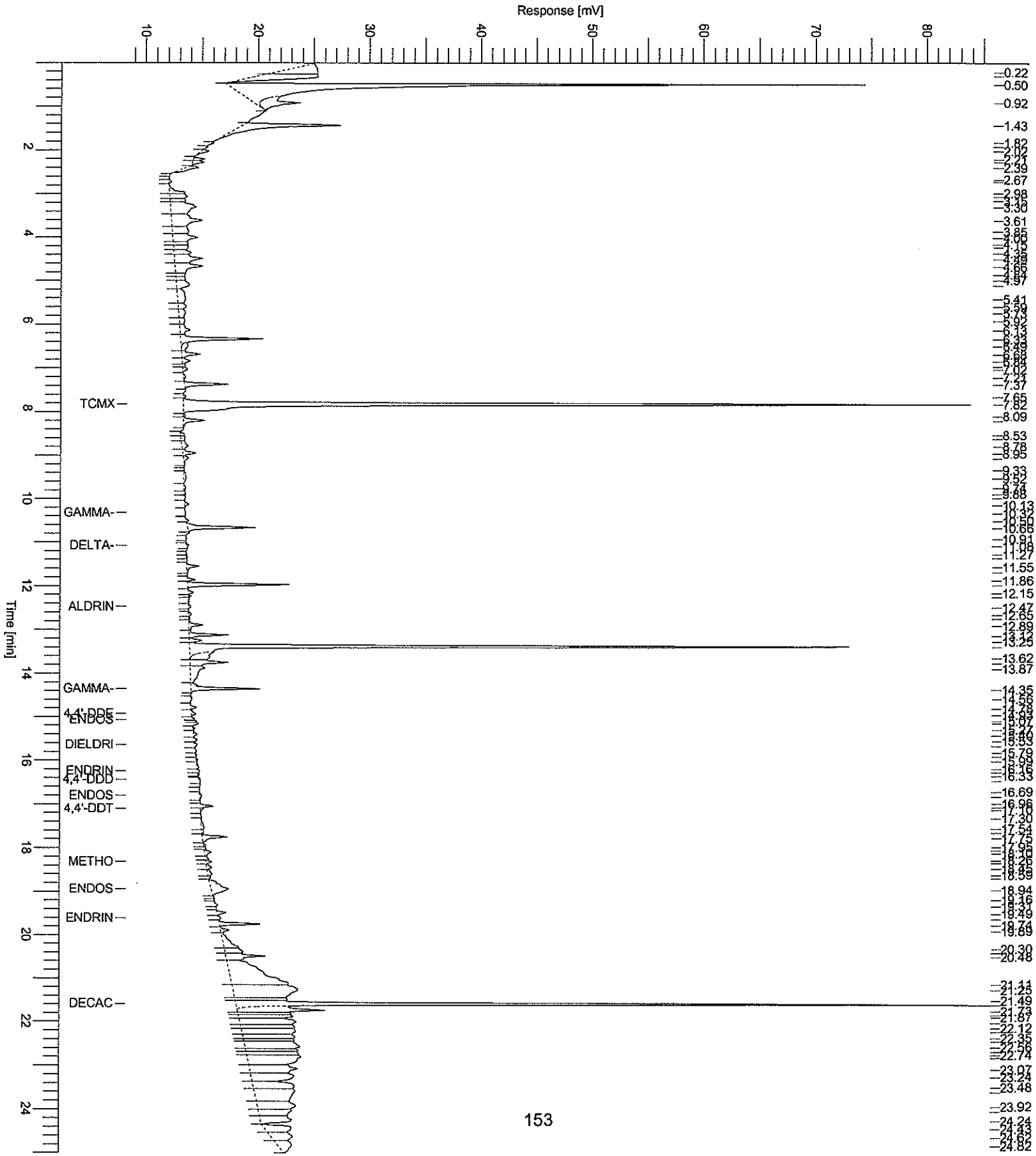
GC23 Rtx-CLPesticides

Sample Name : 175141-010,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHA\284a039.raw
Date : 10/11/04 4:05:10 PM
Method : Time of Injection: 10/11/04 2:15:19 PM
Start Time : 12.57 min End Time : 16.87 min Low Point : 11.72 mV High Point : 22.63 mV
Plot Offset: 11.72 mV Plot Scale: 10.9 mV



GC23 Rtx-CLPesticides

Sample Name : 175141-010,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHA\284a039.raw
Date : 10/11/04 3:56:08 PM
Method : gc23ins Time of Injection: 10/11/04 2:15:19 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 8.33 mV High Point : 85.85 mV
Scale Factor: 1.0 Plot Offset: 8.33 mV Plot Scale: 77.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175141-010,95271
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 39

Date : 10/11/04 3:56:40 PM
Data Acquisition Time : 10/11/04 2:15:19 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b039p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.734	268173.00	28.6524	0.672	1	19.26
alpha-BHC	9.454	193.12	0.0135	0.672	1	0.01
gamma-BHC	10.385	0.00	0.0000	0.672	1	0.00
beta-BHC	10.597	16744.82	2.8917	0.672	1	1.94
delta-BHC	11.422	1262.64	0.0974	0.672	1	0.07
Heptachlor	11.546	174.00	0.0203	0.672	1	0.01
Aldrin	12.388	0.00	0.0000	0.672	1	0.00
Heptachlor epoxide	13.868	0.00	0.0000	0.672	1	0.00
gamma-Chlordane	14.368	3279.00	0.2841	0.672	1	0.19
alpha-Chlordane	14.702	1459.00	0.1311	0.672	1	0.09
Endosulfan I	14.846	0.00	0.0000	0.672	1	0.00
4,4'-DDE	15.192	1353.73	0.1237	0.672	1	0.08
Dieldrin	15.514	631.05	0.0568	0.672	1	0.04
Endrin	16.283	440.65	0.0540	0.672	1	0.04
4,4'-DDD	16.604	884.50	0.0963	0.672	1	0.06
Endosulfan II	16.810	1226.69	0.1273	0.672	1	0.09
4,4'-DDT	17.378	1873.50	0.2827	0.672	1	0.19
Endrin aldehyde	17.627	733.00	0.0957	0.672	1	0.06
Endosulfan sulfate	18.326	2114.27	0.2427	0.672	1	0.16
Methoxychlor	19.071	6119.30	1.9992	0.672	1	1.34
Endrin ketone	19.617	2717.56	0.2629	0.672	1	0.18
Decachlorobiphenyl	22.030	141288.17	23.1518	0.672	1	15.56
		450667.99	58.5837			39.37

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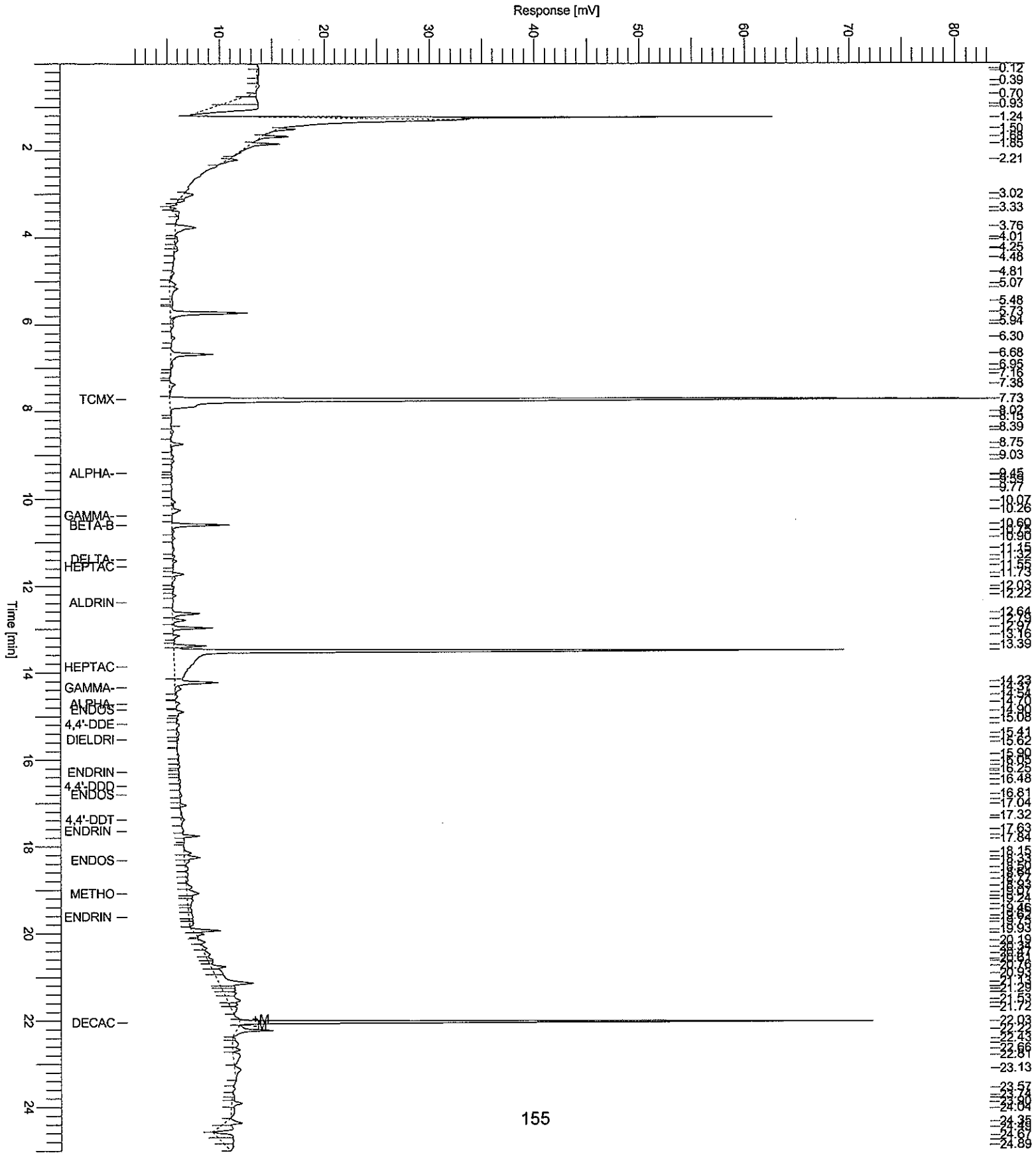
Report stored in ASCII file: G:\gc23\CHB\284b039p.TX0

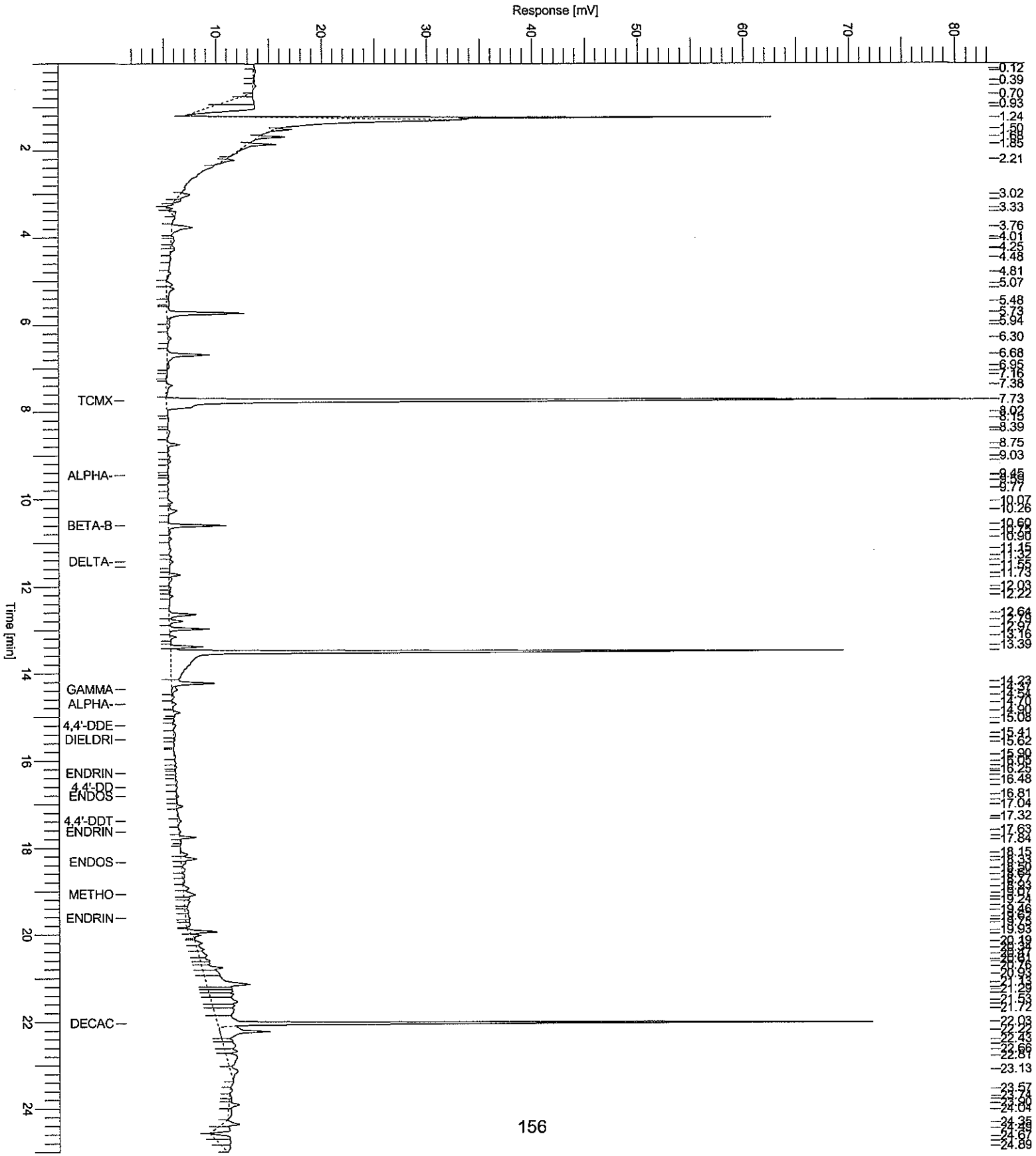
GC23 Rtx-CLPesticides2

Sample Name : 175141-010,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHB\284b039.raw
Date : 10/11/04 3:56:44 PM
Method : Time of Injection: 10/11/04 2:15:19 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.13 mV High Point : 83.26 mV
Plot Offset: 1.13 mV Plot Scale: 82.1 mV



GC23 Rtx-CLPesticides2

Sample Name : 175141-010,95271 Sample #: 95271 Page 1 of 1
FileName : G:\gc23\CHB\284b039.raw
Date : 10/11/04 3:56:18 PM
Method : gc23ins Time of Injection: 10/11/04 2:15:19 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.33 mV High Point : 83.26 mV
Scale Factor: 1.0 Plot Offset: 1.33 mV Plot Scale: 81.9 mV



Curtis & Tompkins, Ltd.

QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	QC267272	Cident	:
Seqnum	: 804410063007	Matrix	: Soil	Acctnum	: QC
Filename	: 284_007	Batchnum	: 95271	Injected	: 10-OCT-2004 21:32
DF	: 1.0			Units	: ug/Kg

Prep: 14.83 g --> 10.0 ml = 0.6743 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	Flags
gamma-BHC	A	804386835001	ND						1.7	
Heptachlor	A	804386835001	ND						1.7	
Aldrin	A	804386835001	ND						1.7	
Dieldrin	A	804386835001	ND						3.3	
Endrin	A	804386835001	ND						3.3	
4,4'-DDT	A	804386835001	ND						3.3	
alpha-BHC	A	804386835001	ND						1.7	
beta-BHC	A	804386835001	ND						1.7	
delta-BHC	A	804386835001	ND						1.7	
Heptachlor epoxide	A	804386835001	ND						1.7	
gamma-Chlordane	A	804386835001	ND						1.7	
alpha-Chlordane	A	804386835001	ND						1.7	
Endosulfan I	A	804386835001	ND						1.7	
4,4'-DDE	A	804386835001	ND						3.3	
Endosulfan II	A	804386835001	ND						3.3	
Endosulfan sulfate	A	804386835001	ND						3.3	
4,4'-DDD	A	804386835001	ND						3.3	
Endrin aldehyde	A	804386835001	ND						3.3	
Endrin ketone	A	804386835001	ND						3.3	
Chlordane (Technical)	A		ND						30	
Methoxychlor	A	804386835001	ND						17	v+
Toxaphene	A		ND						61	

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804386835001	13.49	10.23	76	41-137	
Decachlorobiphenyl	A	804386835001	13.49	10.67	79	42-160	

RM
10/11/04

10/13/04

+=high bias v=ICV

Software Version : 6.1.2.0.1:D19
Sample Name : qc267272,95271,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 10/11/04 2:58:34 PM
Data Acquisition Time : 10/10/04 9:32:40 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a007p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.814	142246.88	15.1686	0.661	1	10.02
alpha-BHC	9.460	322.00	0.0222	0.661	1	0.01
gamma-BHC	10.320	0.00	0.0000	0.661	1	0.00
beta-BHC	10.584	0.00	0.0000	0.661	1	0.00
delta-BHC	11.083	1607.81	0.1225	0.661	1	0.08
Heptachlor	11.623	0.00	0.0000	0.661	1	0.00
Aldrin	12.427	0.00	0.0000	0.661	1	0.00
Heptachlor epoxide	14.045	183.00	0.0162	0.661	1	0.01
gamma-Chlordane	14.347	3375.16	0.2963	0.661	1	0.20
alpha-Chlordane	14.652	29.07	0.0026	0.661	1	0.00
4,4'-DDE	14.894	740.60	0.0679	0.661	1	0.04
Endosulfan I	15.033	1713.00	0.1650	0.661	1	0.11
Dieldrin	15.628	695.00	0.0615	0.661	1	0.04
Endrin	16.231	385.96	0.0442	0.661	1	0.03
4,4'-DDD	16.417	392.26	0.0415	0.661	1	0.03
Endosulfan II	16.796	689.00	0.0707	0.661	1	0.05
4,4'-DDT	17.038	3295.50	0.4305	0.661	1	0.28
Endrin aldehyde	17.838	1431.44	0.1868	0.661	1	0.12
Methoxychlor	18.305	1246.00	0.3687	0.661	1	0.24
Endosulfan sulfate	18.922	919.18	0.1067	0.661	1	0.07
Endrin ketone	19.597	765.95	0.0731	0.661	1	0.05
Decachlorobiphenyl	21.581	105145.04	15.8294	0.661	1	10.46
		265182.85	33.0744			21.85

15.1686 ug × 0.6743 = 10.2238 ug/kg

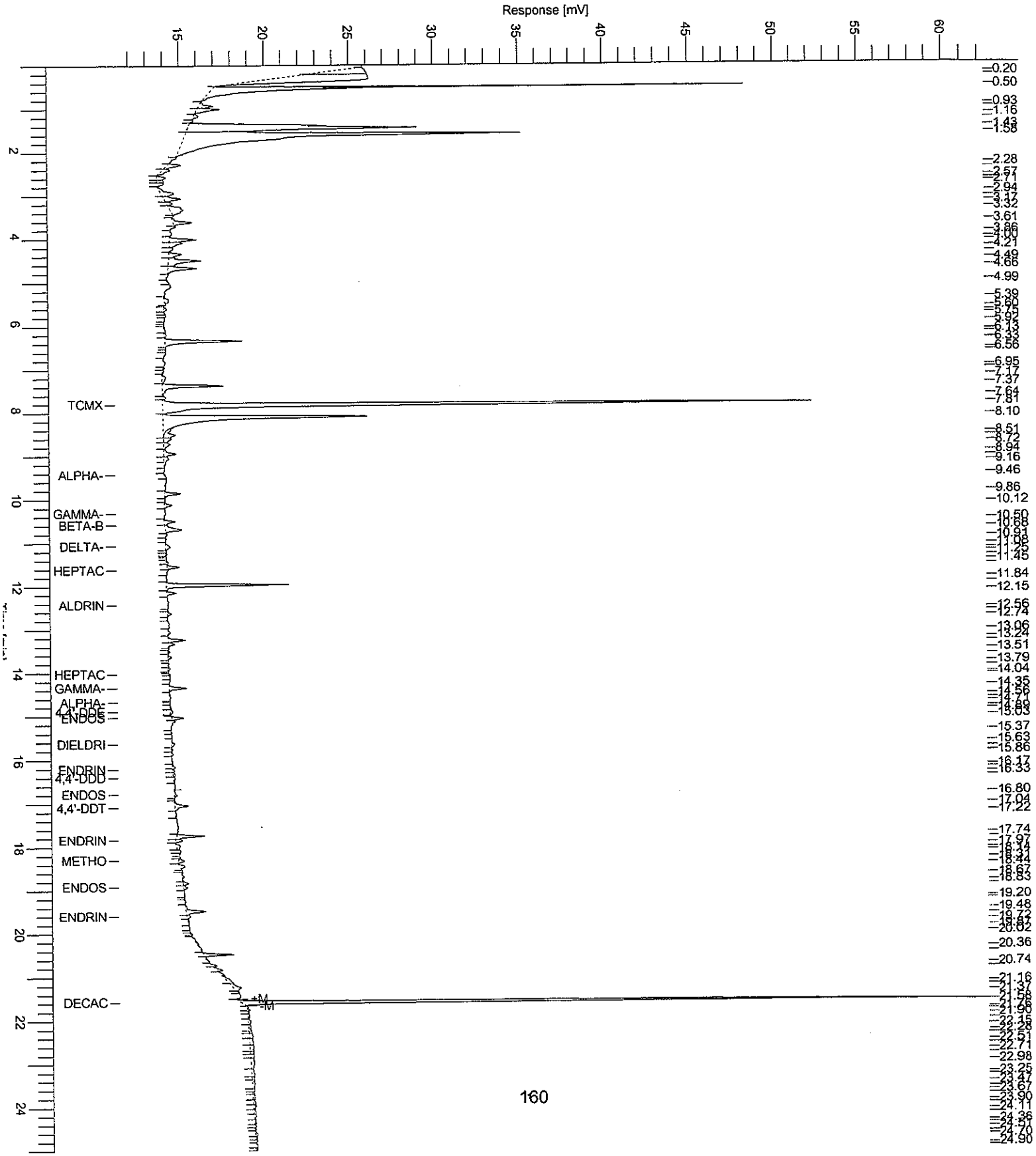
max 1d13/02

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a007p.TX0

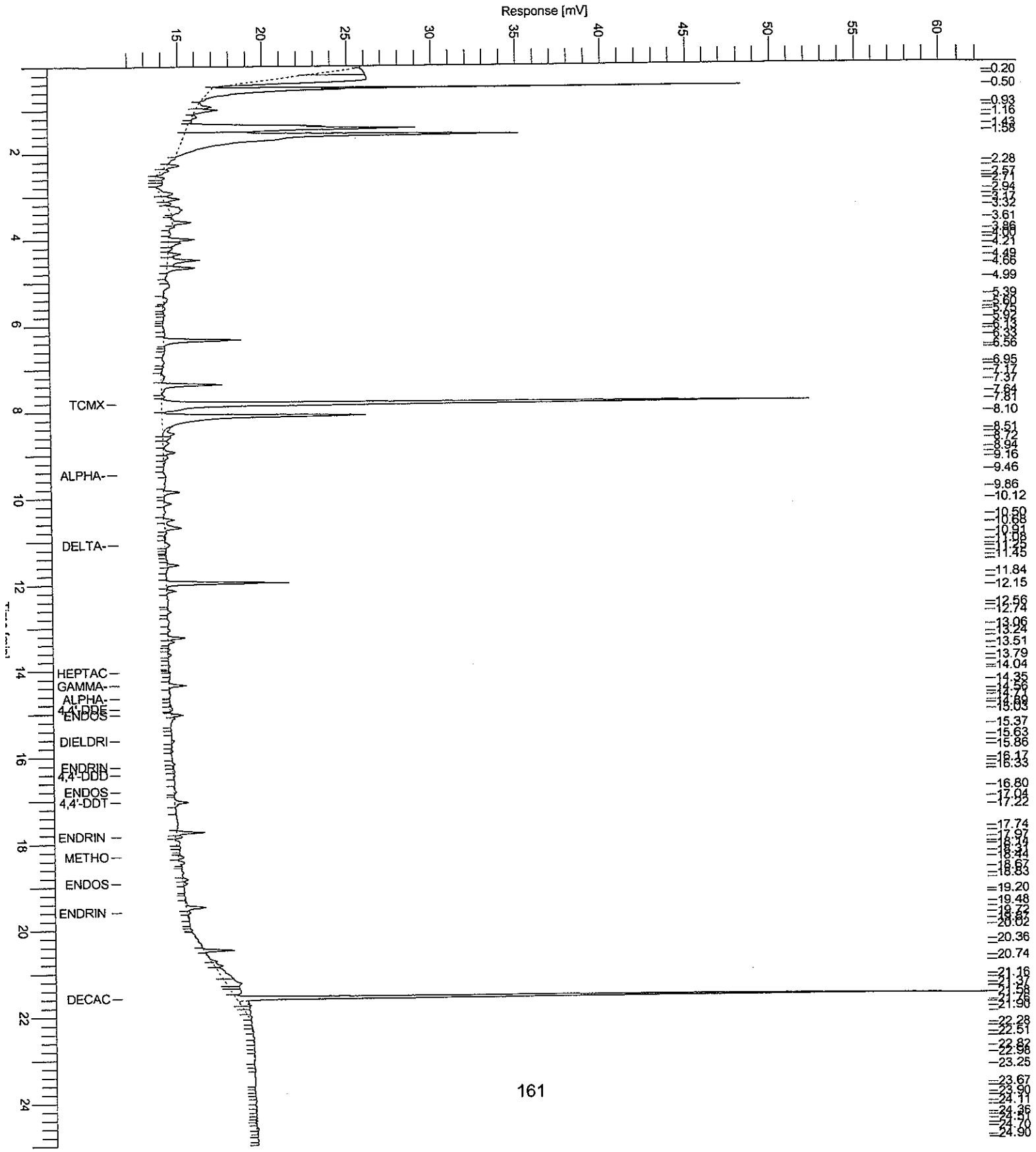
GC23 Rtx-CLPesticides

nple Name : qc267272,95271,mb Sample #: 95271 Page 1 of 1
Name : G:\gc23\CHA\284a007.raw
e : 10/11/04 2:58:38 PM
thod : Time of Injection: 10/10/04 9:32:40 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : 11.11 mV High Point : 62.39 mV
t Offset: 11.11 mV Plot Scale: 51.3 mV



GC23 Rtx-CLPesticides

nple Name : qc267272,95271,mb Sample #: 95271 Page 1 of 1
Name : G:\gc23\CHA\284a007.raw
e : 10/11/04 2:57:55 PM
hod : gc23ins Time of Injection: 10/10/04 9:32:40 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : 11.24 mV High Point : 62.39 mV
le Factor: 1.0 Plot Offset: 11.24 mV Plot Scale: 51.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267272,95271,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 10/11/04 2:57:39 PM
Data Acquisition Time : 10/10/04 9:32:40 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHb\284b007.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.730	142343.75	15.2084	0.661	1	10.05
alpha-BHC	9.432	660.10	0.0461	0.661	1	0.03
gamma-BHC	10.385	0.00	0.0000	0.661	1	0.00
beta-BHC	10.604	0.00	0.0000	0.661	1	0.00
delta-BHC	11.418	1796.94	0.1386	0.661	1	0.09
Heptachlor	11.579	1324.52	0.1547	0.661	1	0.10
Aldrin	12.388	0.00	0.0000	0.661	1	0.00
Heptachlor epoxide	13.860	300.69	0.0270	0.661	1	0.02
gamma-Chlordane	14.344	520.49	0.0451	0.661	1	0.03
alpha-Chlordane	14.704	593.54	0.0533	0.661	1	0.04
Endosulfan I	14.871	895.40	0.0859	0.661	1	0.06
4,4'-DDE	15.183	448.84	0.0410	0.661	1	0.03
Dieldrin	15.514	670.00	0.0603	0.661	1	0.04
Endrin	16.273	1009.82	0.1237	0.661	1	0.08
4,4'-DDD	16.600	221.59	0.0241	0.661	1	0.02
Endosulfan II	16.800	373.40	0.0388	0.661	1	0.03
4,4'-DDT	17.365	680.37	0.1027	0.661	1	0.07
Endrin aldehyde	17.634	782.60	0.1022	0.661	1	0.07
Endosulfan sulfate	18.335	1647.56	0.1891	0.661	1	0.12
Methoxychlor	19.053	4286.11	1.4003	0.661	1	0.92
Endrin ketone	19.613	807.00	0.0781	0.661	1	0.05
Decachlorobiphenyl	22.021	106344.87	17.4259	0.661	1	11.51
		265707.60	35.3453			23.35

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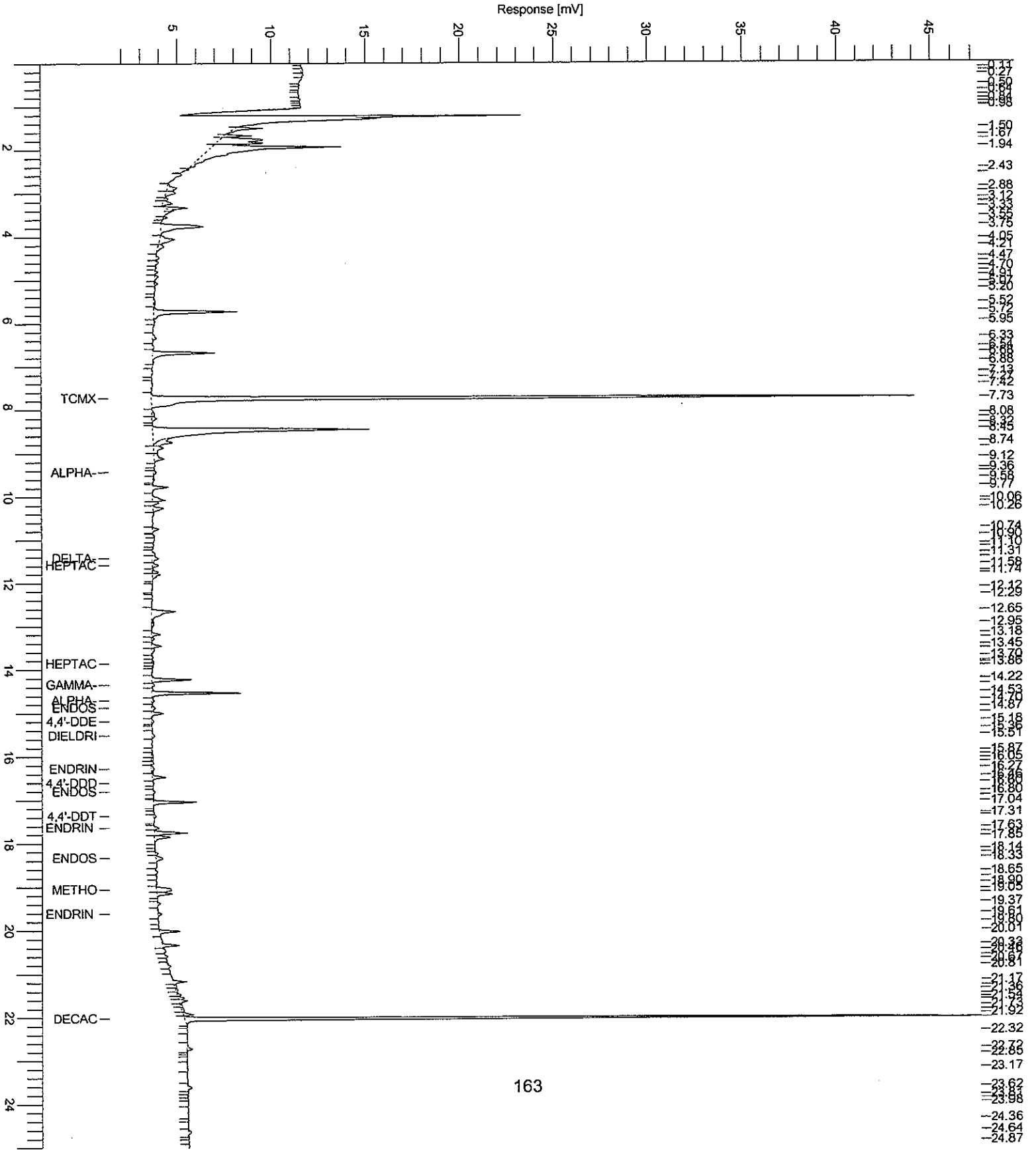
Report stored in ASCII file: G:\gc23\CHb\284b007.TX0

GC23 Rtx-CLPesticides2

mple Name : qc267272,95271,mb Sample #: 95271 Page 1 of 1
eName : G:\gc23\CHB\284b007.raw
te : 10/11/04 2:57:41 PM
thod : gc23ins Time of Injection: 10/10/04 9:32:40 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : 1.26 mV High Point : 47.43 mV
ale Factor: 1.0 Plot Offset: 1.26 mV Plot Scale: 46.2 mV



BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23
Seqnum : 804414114008
Filename : 287_008
IDF : 1.0

Samplenum: QC267744
Matrix : Soil
Batchnum : 95382

Cident :
Acctnum : QC
Injected : 13-OCT-2004 18:41
Units : ug/Kg

Prep: 15.14 g --> 10.0 ml = 0.6605 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	Flags
gamma-BHC	B	804412857001	ND						1.7	
Heptachlor	B	804412857001	ND						1.7	
Aldrin	B	804412857001	ND						1.7	
Dieldrin	B	804412857001	ND						3.3	
Endrin	B	804412857001	ND						3.3	
4,4'-DDT	B	804412857001	ND						3.3	
alpha-BHC	B	804412857001	ND						1.7	
beta-BHC	B	804412857001	ND						1.7	
delta-BHC	B	804412857001	ND						1.7	
Heptachlor epoxide	B	804412857001	ND						1.7	
gamma-Chlordane	B	804412857001	ND						1.7	
alpha-Chlordane	B	804412857001	ND						1.7	
Endosulfan I	B	804412857001	ND						1.7	
4,4'-DDE	B	804412857001	ND						3.3	
Endosulfan II	B	804412857001	ND						3.3	
Endosulfan sulfate	B	804412857001	ND						3.3	
4,4'-DDD	B	804412857001	ND						3.3	
Endrin aldehyde	B	804412857001	ND						3.3	
Endrin ketone	B	804412857001	ND						3.3	
Chlordane (Technical)	A		ND						30	
Methoxychlor	B	804412857001	ND						17	
Toxaphene	A		ND						59	

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804412857001	13.21	11.96	91	41-137	
Decachlorobiphenyl	B	804412857001	13.21	11.10	84	42-160	

GP 10/14/04

MCW 10/15/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc267744,95382,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 10/14/04 12:46:33 PM
Data Acquisition Time : 10/13/04 6:41:17 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a008p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.632	196890.79	21.4216	0.661	1	14.15
alpha-BHC	9.250	356.91	0.0250	0.661	1	0.02
gamma-BHC	10.132	0.00	0.0000	0.661	1	0.00
beta-BHC	10.417	928.68	0.1663	0.661	1	0.11
delta-BHC	10.914	1151.40	0.0890	0.661	1	0.06
Heptachlor	11.420	13193.49	1.1684	0.661	1	0.77
Aldrin	12.244	569.36	0.0482	0.661	1	0.03
Heptachlor epoxide	13.837	370.89	0.0338	0.661	1	0.02
gamma-Chlordane	14.137	4926.73	0.4444	0.661	1	0.29
alpha-Chlordane	14.469	665.68	0.0624	0.661	1	0.04
4,4'-DDE	14.687	996.86	0.0946	0.661	1	0.06
Endosulfan I	14.830	1773.29	0.1751	0.661	1	0.12
Dieldrin	15.427	877.50	0.0805	0.661	1	0.05
Endrin	16.012	2029.84	0.2350	0.661	1	0.16
4,4'-DDD	16.203	909.89	0.1048	0.661	1	0.07
Endosulfan II	16.579	1507.01	0.1618	0.661	1	0.11
4,4'-DDT	16.883	0.00	0.0000	0.661	1	0.00
Endrin aldehyde	17.609	960.19	0.1286	0.661	1	0.08
Methoxychlor	18.099	1290.26	0.3504	0.661	1	0.23
Endosulfan sulfate	18.704	304.67	0.0366	0.661	1	0.02
Endrin ketone	19.369	0.00	0.0000	0.661	1	0.00
Decachlorobiphenyl	21.404	131370.34	20.2414	0.661	1	13.37
		361073.80	45.0679			29.77

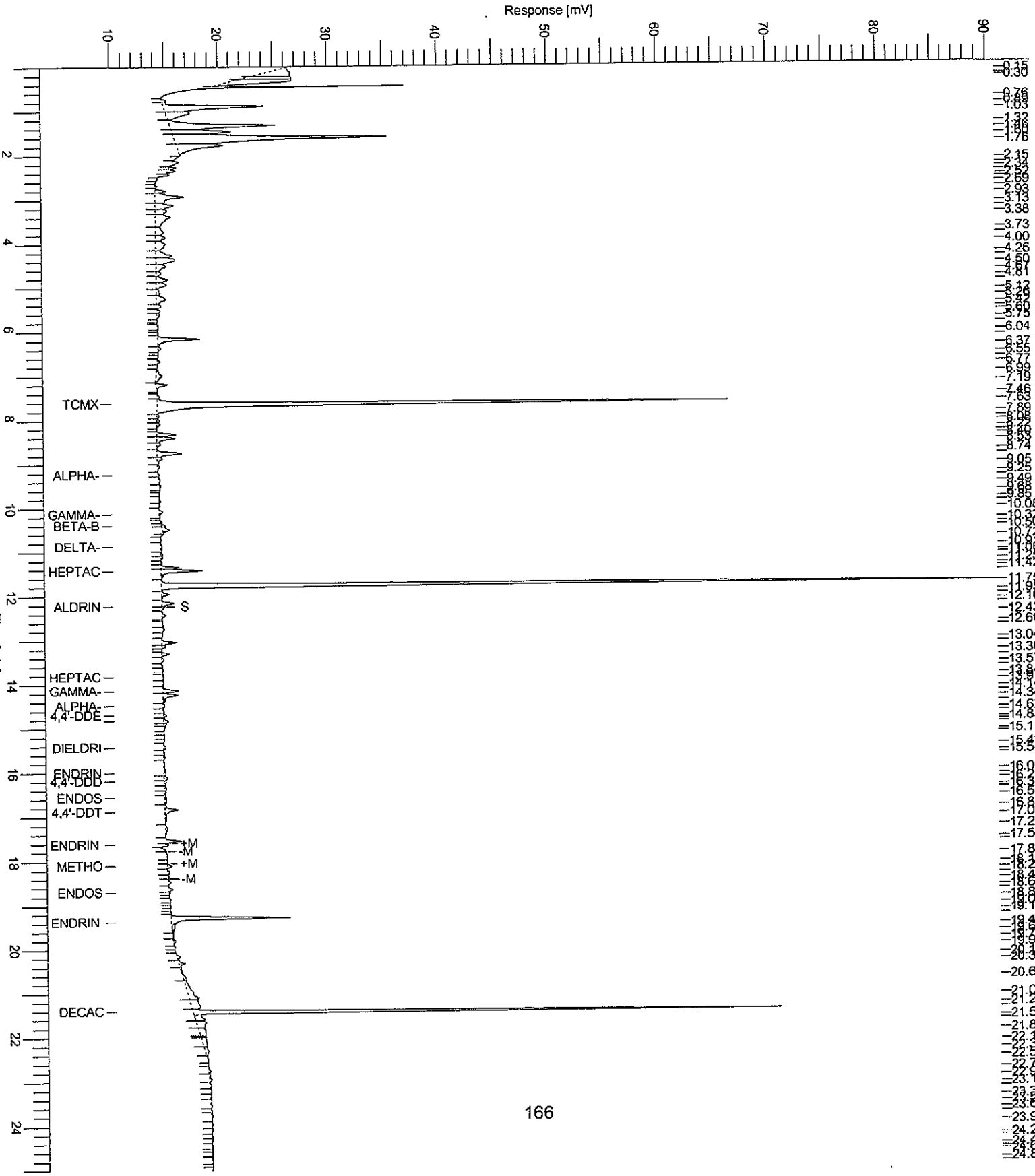
GL 10/14/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\287a008p.TX0

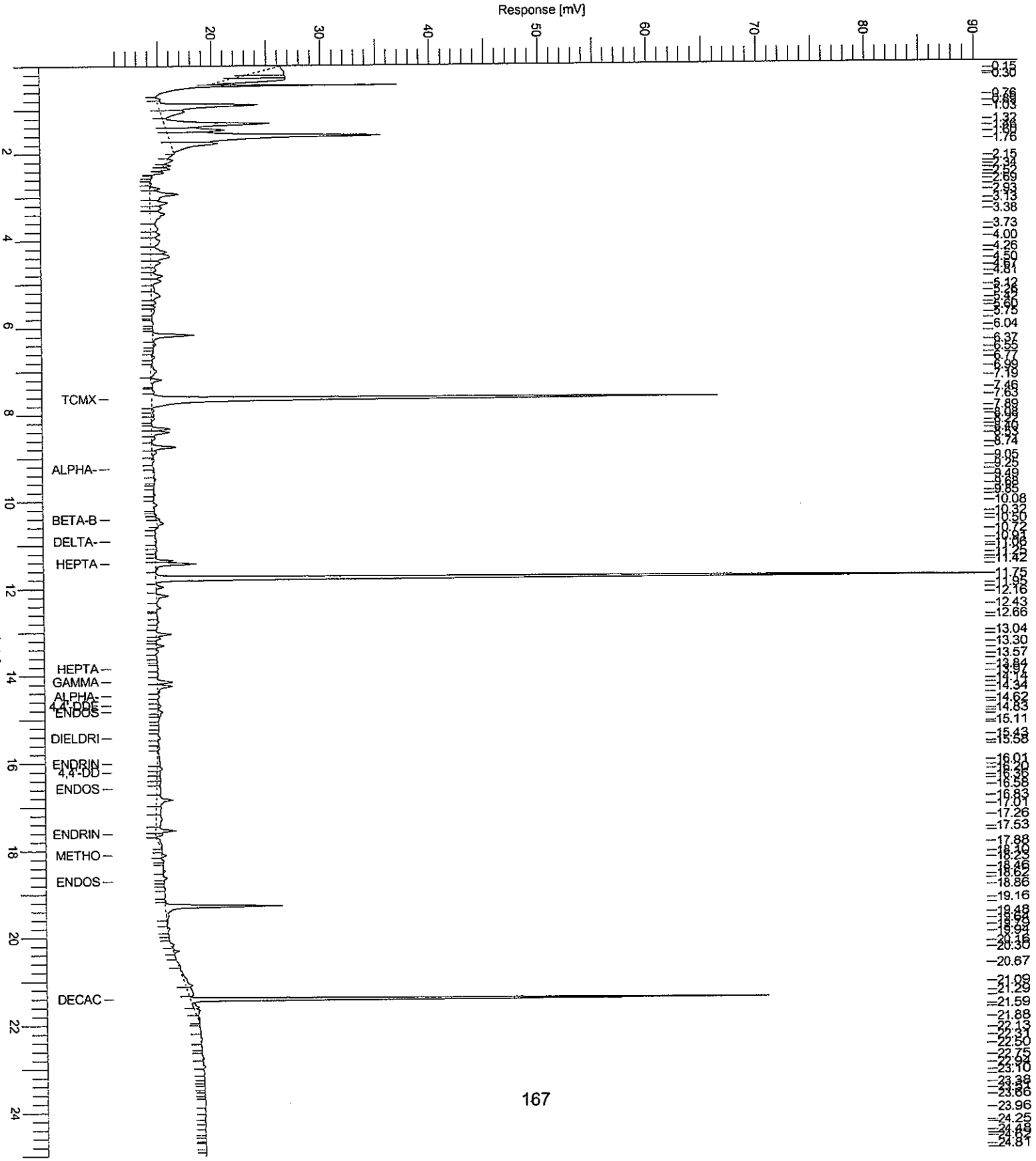
GC23 Rtx-CLPesticides

ıple Name : qc267744,95382,mb Sample #: 95382 Page 1 of 1
Name : G:\gc23\CHa\287a008.raw
e : 10/14/04 12:46:39 PM
hod : Time of Injection: 10/13/04 6:41:17 PM
t Time : 0.00 min End Time : 25.00 min Low Point : 10.00 mV High Point : 90.78 mV
: Offset: 10.00 mV Plot Scale: 80.8 mV



GC23 Rtx-CLPesticides

ıple Name : qc267744,95382,mb Sample #: 95382 Page 1 of 1
Name : G:\gc23\CHa\287a008.raw
e : 10/14/04 10:45:25 AM
hod : gc23ins Time of Injection: 10/13/04 6:41:17 PM
t Time : 0.00 min End Time : 25.00 min Low Point : 10.20 mV High Point : 90.78 mV
le Factor: 1.0 Plot Offset: 10.20 mV Plot Scale: 80.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267744,95382,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 10/14/04 12:45:05 PM
Data Acquisition Time : 10/13/04 6:41:17 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b008p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.550	123619.50	18.1026	0.661	1	11.96
alpha-BHC	9.255	102.64	0.0101	0.661	1	0.01
gamma-BHC	10.199	0.00	0.0000	0.661	1	0.00
beta-BHC	10.421	0.00	0.0000	0.661	1	0.00
delta-BHC	11.165	3451.15	0.3814	0.661	1	0.25
Heptachlor	11.362	0.00	0.0000	0.661	1	0.00
Aldrin	12.194	0.00	0.0000	0.661	1	0.00
Heptachlor epoxide	13.668	0.00	0.0000	0.661	1	0.00
gamma-Chlordane	14.149	274.24	0.0334	0.661	1	0.02
alpha-Chlordane	14.513	153.50	0.0193	0.661	1	0.01
Endosulfan I	14.683	387.31	0.0515	0.661	1	0.03
4,4'-DDE	15.003	304.50	0.0385	0.661	1	0.03
Dieldrin	15.327	0.00	0.0000	0.661	1	0.00
Endrin	16.090	126.50	0.0194	0.661	1	0.01
4,4'-DDD	16.408	82.00	0.0127	0.661	1	0.01
Endosulfan II	16.596	0.00	0.0000	0.661	1	0.00
4,4'-DDT	17.171	324.26	0.0591	0.661	1	0.04
Endrin aldehyde	17.435	308.02	0.0551	0.661	1	0.04
Endosulfan sulfate	18.111	0.00	0.0000	0.661	1	0.00
Methoxychlor	18.850	20458.40	8.0895	0.661	1	5.34
Endrin ketone	19.418	109.00	0.0145	0.661	1	0.01
Decachlorobiphenyl	21.869	79406.52	16.8066	0.661	1	11.10
		229107.55	43.6938			28.86

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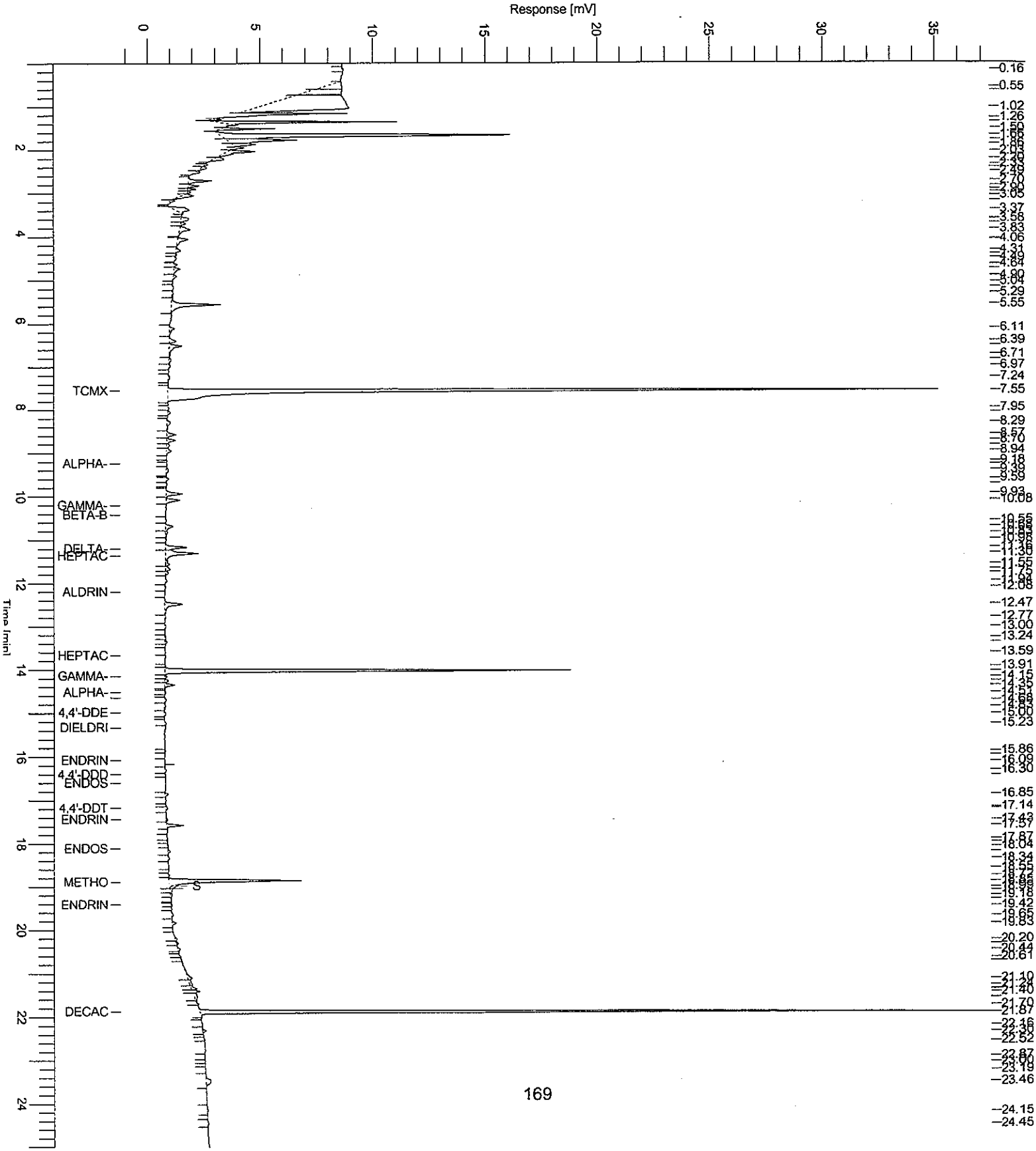
Report stored in ASCII file: G:\gc23\CHB\287b008p.TX0

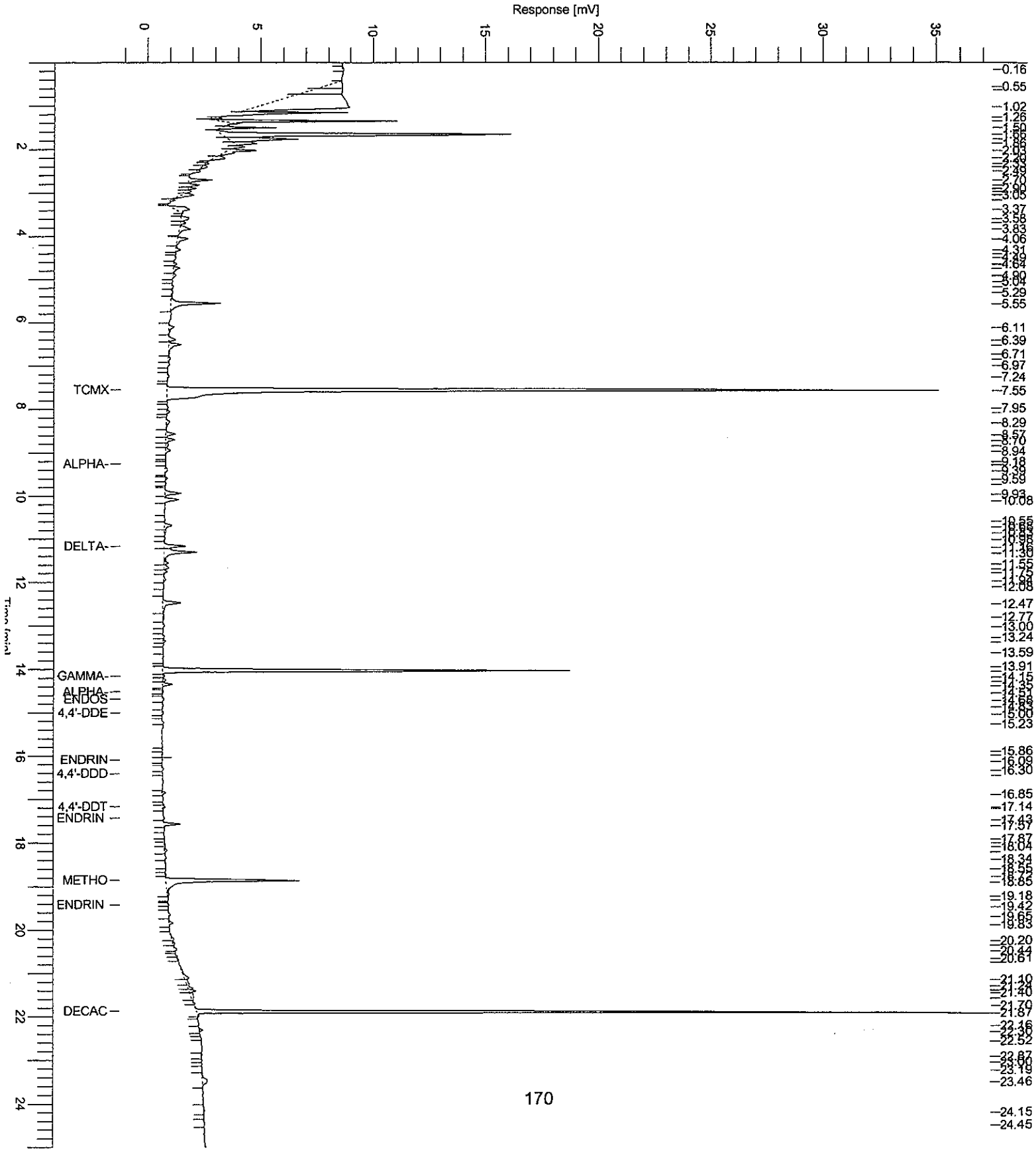
GC23 Rtx-CLPesticides2

ample Name : qc267744,95382,mb Sample #: 95382 Page 1 of 1
ileName : G:\gc23\CHb\287b008.raw
ate : 10/14/04 12:45:10 PM
lethod : Time of Injection: 10/13/04 6:41:17 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.27 mV High Point : 37.39 mV
lot Offset: -1.27 mV Plot Scale: 38.7 mV



GC23 Rtx-CLPesticides2

ample Name : qc267744,95382,mb Sample #: 95382 Page 1 of 1
leName : G:\gc23\CHb\287b008
ate : 10/14/04 10:46:19 AM
ethod : gc23ins Time of Injection: 10/13/04 6:41:17 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.17 mV High Point : 37.39 mV
cale Factor: 1.0 Plot Offset: -1.17 mV Plot Scale: 38.6 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC16
Seqnum : 234403952058
Filename : 280_058
IDF : 1.0
Run type : LCS
Samplenum: QC267273
Matrix : Soil
Batchnum : 95271
Inj : 09-OCT-2004 00:35
Units : ug/Kg

LCS: 15.14 g --> 10.0 ml = 0.6605 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
gamma-BHC	16.51	10.73	B	65	44-123	
Heptachlor	16.51	12.93	B	78	52-137	
Aldrin	16.51	11.13	B	67	49-120	
Dieldrin	16.51	11.71	B	71	40-124	
Endrin	16.51	12.35	B	75	41-146	
4,4'-DDT	16.51	11.15	B	67	36-152	>p
alpha-BHC	16.51	10.29	B	62	43-127	
beta-BHC	16.51	10.86	B	66	46-126	
delta-BHC	16.51	10.77	B	65	30-127	
Heptachlor epoxide	16.51	11.08	B	67	44-124	
gamma-Chlordane	16.51	10.63	B	64	50-120	
alpha-Chlordane	16.51	10.67	B	65	49-120	
Endosulfan I	16.51	11.28	B	68	46-122	
4,4'-DDE	16.51	10.58	B	64	50-120	>p
Endosulfan II	16.51	11.62	B	70	21-135	
Endosulfan sulfate	16.51	9.374	B	57	11-137	
4,4'-DDD	16.51	10.91	B	66	49-130	>p
Endrin aldehyde	16.51	6.291	B	38	4-120	
Endrin ketone	16.51	10.60	B	64	15-141	
Methoxychlor	16.51	17.35	B	105	30-176	
TCMX	13.21	9.451	B	72	41-137	
Decachlorobiphenyl	13.21	11.44	B	87	42-160	

PN
10/11/04

>=closing p=PEM failure

Software Version : 6.1.2.0.1:D19
Sample Name : qc267273,95271,lcs
Instrument Name : GC16
Rack/Vial : 1/58
Sample Amount : 1.000000
Cycle : 58

Date : 10/11/04 4:28:42 PM
Data Acquisition Time : 10/9/04 12:35:25 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\280a058p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

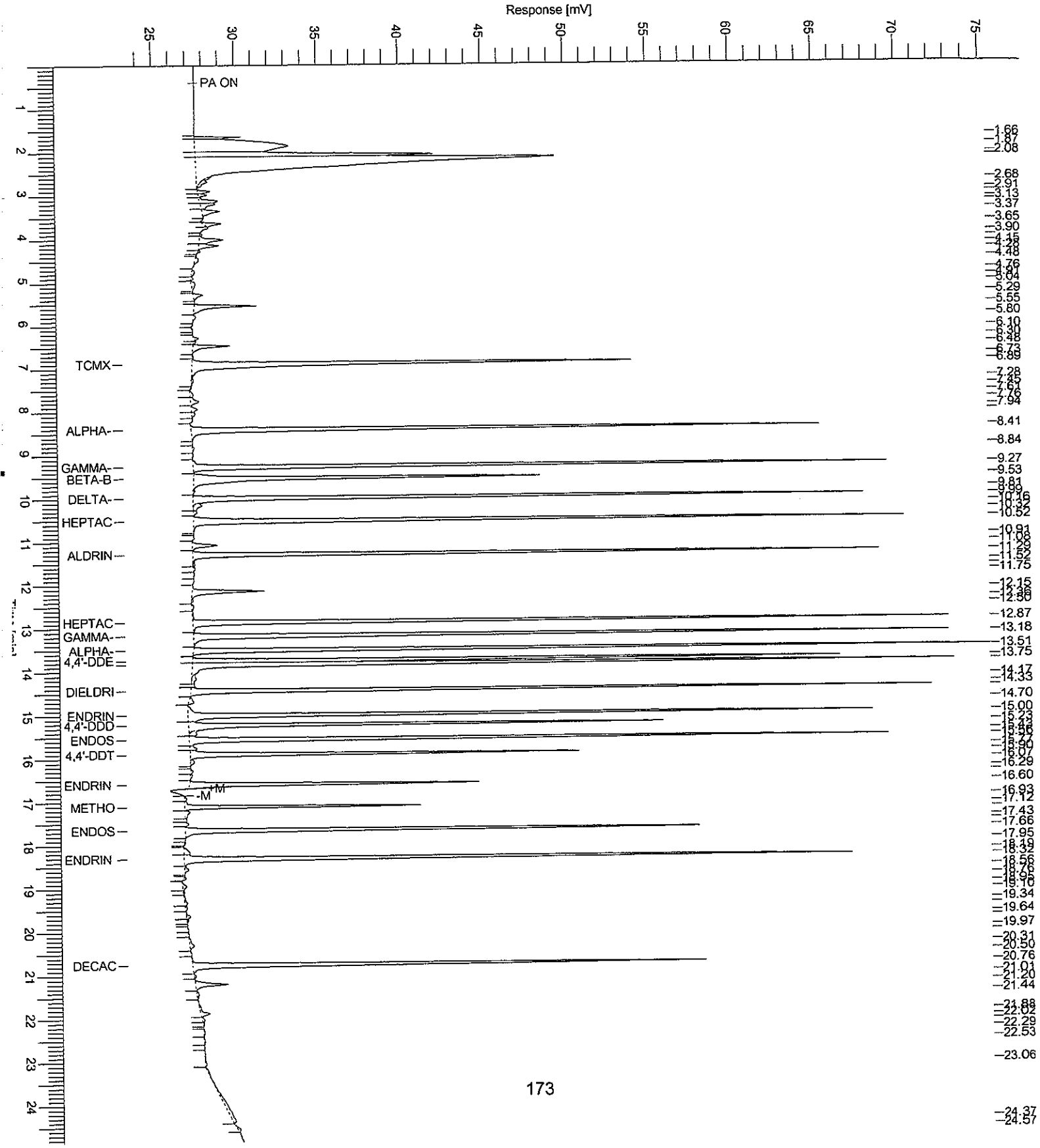
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.893	116021.86	13.9784	0.661	1	9.23
alpha-BHC	8.412	128578.49	14.2144	0.661	1	9.39
gamma-BHC	9.267	138521.12	15.7640	0.661	1	10.41
beta-BHC	9.532	88757.20	17.6974	0.661	1	11.69
delta-BHC	9.990	132433.97	15.8579	0.661	1	10.47
Heptachlor	10.519	145041.62	17.7341	0.661	1	11.71
Aldrin	11.294	130542.50	15.6722	0.661	1	10.35
Heptachlor epoxide	12.866	144835.99	16.4758	0.661	1	10.88
gamma-Chlordane	13.177	148369.25	16.3539	0.661	1	10.80
alpha-Chlordane	13.509	148324.61	16.3146	0.661	1	10.78
4,4'-DDE	13.749	116527.64	14.9145	0.661	1	9.85
Endosulfan I	13.840	153297.99	16.2719	0.661	1	10.75
Dieldrin	14.439	136896.69	16.6670	0.661	1	11.01
Endrin	15.001	132441.53	18.8994	0.661	1	12.48
4,4'-DDD	15.227	92332.96	15.8238	0.661	1	10.45
Endosulfan II	15.561	135063.05	17.3107	0.661	1	11.43
4,4'-DDT	15.903	75571.75	17.0213	0.661	1	11.24
Endrin aldehyde	16.597	62615.21	9.2990	0.661	1	6.14
Methoxychlor	17.117	42869.92	18.5507	0.661	1	12.25
Endosulfan sulfate	17.662	105057.62	14.7991	0.661	1	9.77
Endrin ketone	18.317	137283.73	17.7186	0.661	1	11.70
Decachlorobiphenyl	20.760	107681.08	13.2694	0.661	1	8.76
		2619065.79	350.6079			231.58

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\280a058p.TX0

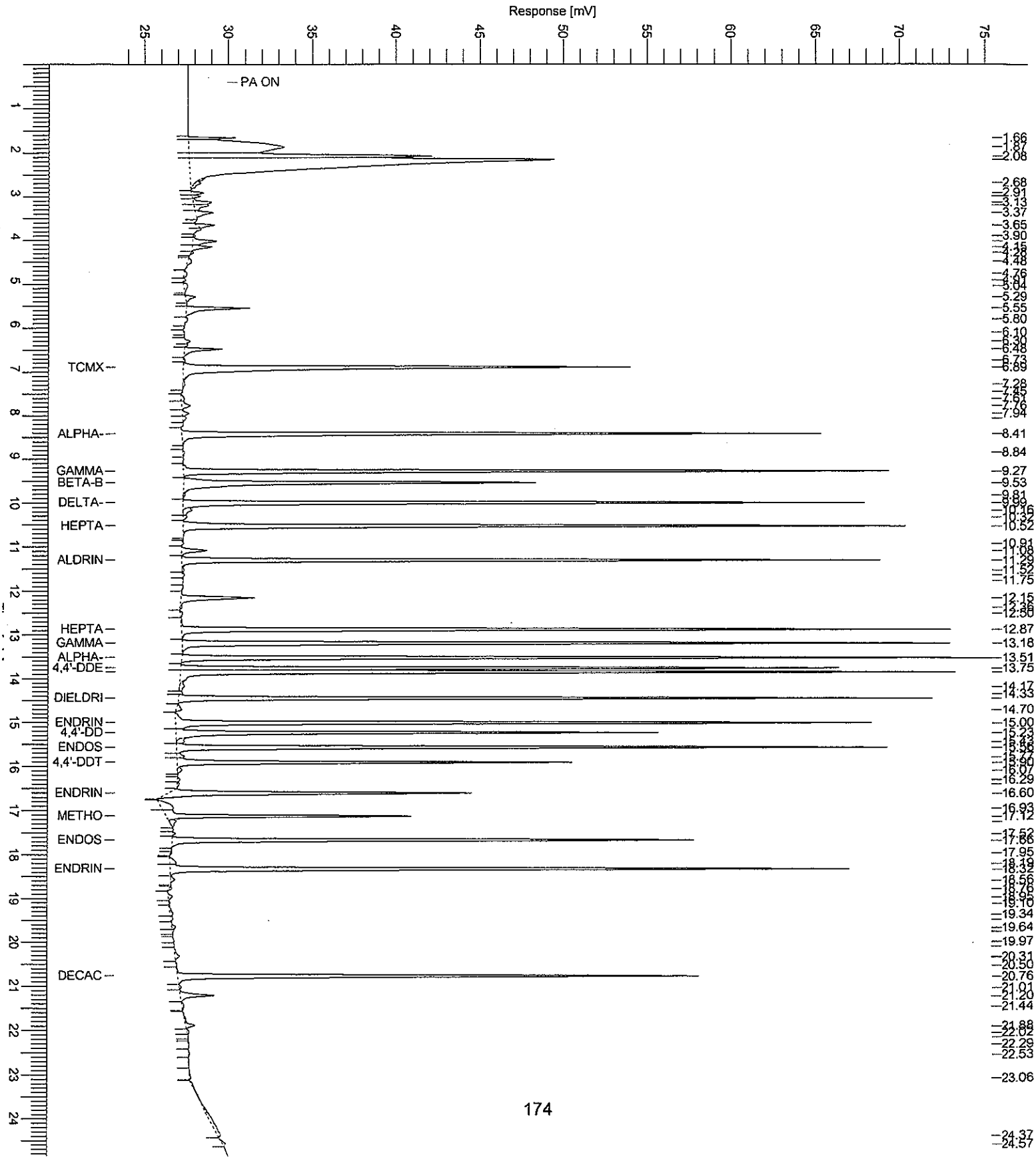
GC16 Rtx-CLPesticides

nple Name : qc267273,95271,lcs Sample #: 95271 Page 1 of 1
Name : g:\gc16\cha\280a058.raw
e : 10/11/04 4:28:46 PM
hod : Time of Injection: 10/9/04 12:35:25 AM
rt Time : 0.00 min End Time : 24.85 min Low Point : 23.13 mV High Point : 75.43 mV
l Offset: 23.13 mV Plot Scale: 52.3 mV



GC16 Rtx-CLPesticides

ample Name : qc267273,95271,lcs Sample #: 95271 Page 1 of 1
leName : g:\gc16\cha\280a058.raw
ate : 10/11/04 4:19:21 PM
ethod : gc16 Time of Injection: 10/9/04 12:35:25 AM
art Time : 0.00 min End Time : 24.85 min Low Point : 23.26 mV High Point : 75.43 mV
cale Factor: 1.0 Plot Offset: 23.26 mV Plot Scale: 52.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267273,95271,lcs
Instrument Name : GC16
Rack/Vial : 1/58
Sample Amount : 1.000000
Cycle : 58

Date : 10/11/04 4:27:37 PM
Data Acquisition Time : 10/9/04 12:35:25 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\280b058p.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

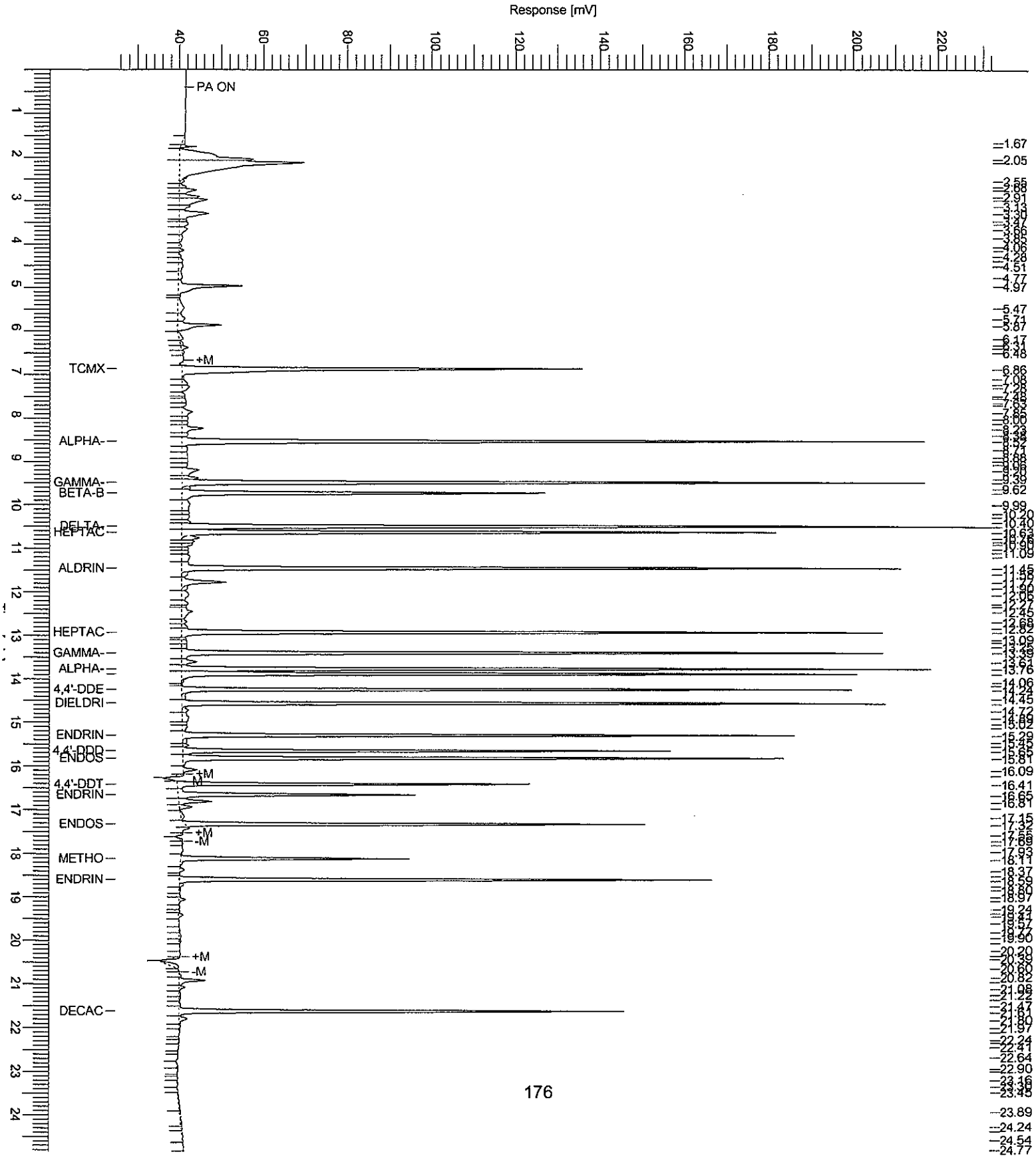
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.859	368560.51	14.3094	0.661	1	9.45
alpha-BHC	8.520	563773.91	15.5852	0.661	1	10.29
gamma-BHC	9.480	542090.03	16.2384	0.661	1	10.73
beta-BHC	9.725	298865.46	16.4474	0.661	1	10.86
delta-BHC	10.493	566452.85	16.2987	0.661	1	10.77
Heptachlor	10.627	435278.94	19.5690	0.661	1	12.93
Aldrin	11.453	527875.12	16.8504	0.661	1	11.13
Heptachlor epoxide	12.920	497257.55	16.7686	0.661	1	11.08
gamma-Chlordane	13.387	517469.31	16.0956	0.661	1	10.63
alpha-Chlordane	13.760	510703.60	16.1515	0.661	1	10.67
Endosulfan I	13.880	480900.58	17.0718	0.661	1	11.28
4,4'-DDE	14.240	426442.80	16.0222	0.661	1	10.58
Dieldrin	14.560	482317.39	17.7327	0.661	1	11.71
Endrin	15.293	424098.19	18.7041	0.661	1	12.35
4,4'-DDD	15.652	315635.62	16.5221	0.661	1	10.91
Endosulfan II	15.813	433297.28	17.5947	0.661	1	11.62
4,4'-DDT	16.405	242103.32	16.8749	0.661	1	11.15
Endrin aldehyde	16.651	186512.11	9.5253	0.661	1	6.29
Endosulfan sulfate	17.319	316833.43	14.1920	0.661	1	9.37
Methoxychlor	18.108	162464.66	26.2692	0.661	1	17.35
Endrin ketone	18.587	373813.62	16.0509	0.661	1	10.60
Decachlorobiphenyl	21.614	320335.11	17.3190	0.661	1	11.44
		8993081.40	368.1931			243.19

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\280b058p.TX0

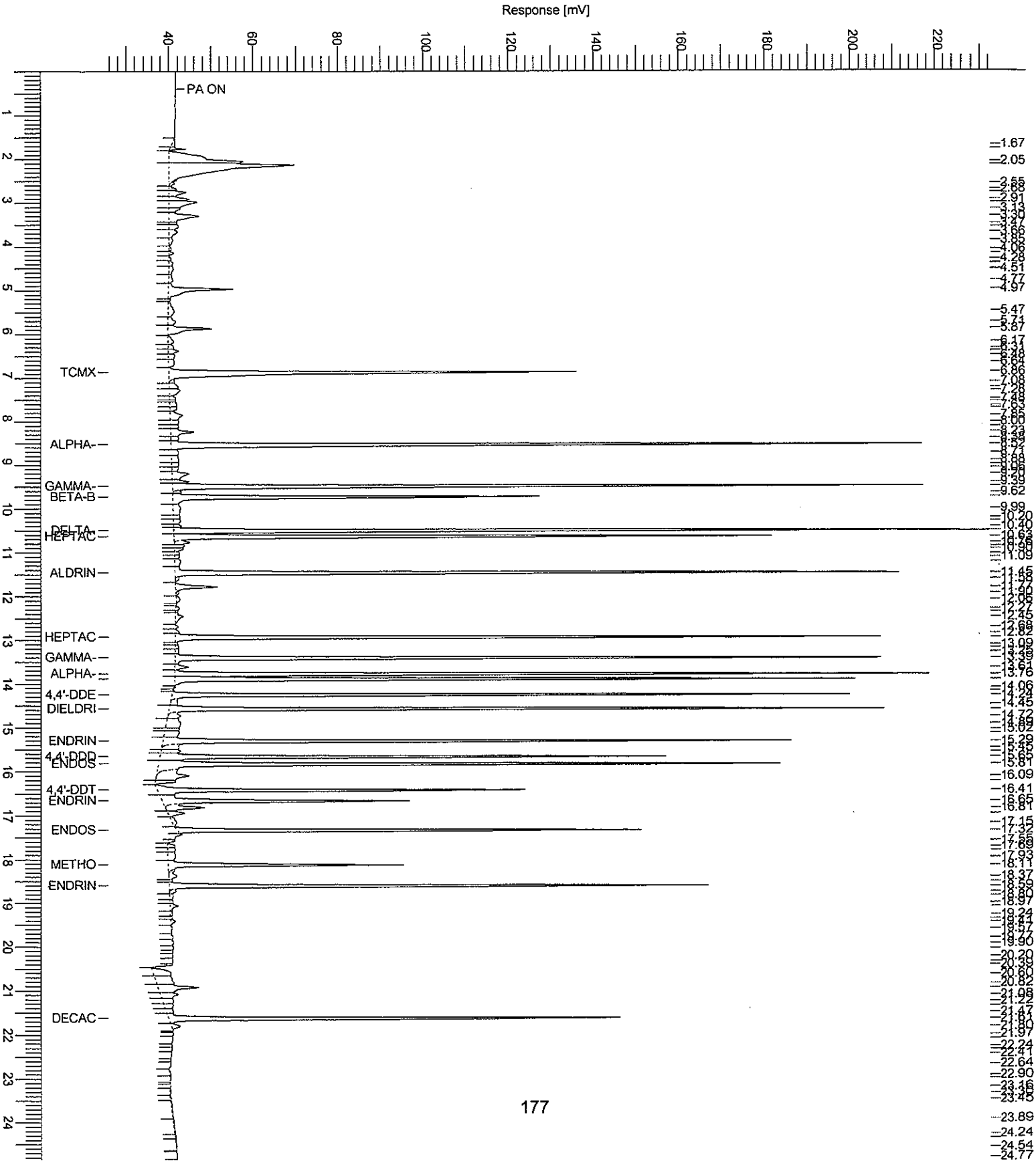
GC16 Rtx-CLPesticides2

ımple Name : qc267273,95271,lcs Sample #: 95271 Page 1 of 1
eName : g:\gc16\chb\280b058.raw
ıte : 10/11/04 4:27:41 PM
ethod : Time of Injection: 10/9/04 12:35:25 AM
art Time : 0.00 min End Time : 24.85 min Low Point : 25.11 mV High Point : 232.43 mV
ot Offset: 25.11 mV Plot Scale: 207.3 mV



GC16 Rtx-CLPesticides2

nple Name : qc267273,95271,lcs Sample #: 95271 Page 1 of 1
Name : g:\gc16\chb\280b058.raw
e : 10/11/04 4:19:24 PM
:hod : gc16 Time of Injection: 10/9/04 12:35:25 AM
rt Time : 0.00 min End Time : 24.85 min Low Point : 25.63 mV High Point : 232.43 mV
ıle Factor: 1.0 Plot Offset: 25.63 mV Plot Scale: 206.8 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

:nstid : GC23
3eqnum : 804414114009
'ilename : 287_009
:DF : 1.0
Run type : LCS
3amplenum: QC267745
Matrix : Soil
3atchnum : 95382
[nj : 13-OCT-2004 19:11
Jnits : ug/Kg

LCS: 15.22 g --> 10.0 ml = 0.657 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
gamma-BHC	16.43	11.93	B	73	44-123	
Heptachlor	16.43	12.87	B	78	52-137	
Aldrin	16.43	12.33	B	75	49-120	
Dieldrin	16.43	12.34	B	75	40-124	
Endrin	16.43	12.39	B	75	41-146	
4,4'-DDT	16.43	12.41	B	76	36-152	
alpha-BHC	16.43	11.84	B	72	43-127	
beta-BHC	16.43	11.59	B	71	46-126	
delta-BHC	16.43	12.62	B	77	30-127	
Heptachlor epoxide	16.43	12.13	B	74	44-124	
gamma-Chlordane	16.43	11.94	B	73	50-120	
alpha-Chlordane	16.43	12.17	B	74	49-120	
Endosulfan I	16.43	12.25	B	75	46-122	
4,4'-DDE	16.43	12.43	B	76	50-120	
Endosulfan II	16.43	12.21	B	74	21-135	
Endosulfan sulfate	16.43	10.91	B	66	11-137	
4,4'-DDD	16.43	12.03	B	73	49-130	
Endrin aldehyde	16.43	9.273	B	56	4-120	
Endrin ketone	16.43	11.68	B	71	15-141	
Methoxychlor	16.43	13.73	B	84	30-176	
TCMX	13.14	12.40	B	94	41-137	
Decachlorobiphenyl	13.14	12.35	B	94	42-160	

10/14/04

10/15/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc267745,95382,lcs
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 10/14/04 12:47:51 PM
Data Acquisition Time : 10/13/04 7:11:41 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a009p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.624	221960.69	24.1492	0.657	1	15.87
alpha-BHC	9.245	306258.21	21.4447	0.657	1	14.09
gamma-BHC	10.134	282499.08	21.7721	0.657	1	14.30
beta-BHC	10.399	123547.63	22.1252	0.657	1	14.54
delta-BHC	10.879	283875.82	21.9477	0.657	1	14.42
Heptachlor	11.432	260615.06	23.0789	0.657	1	15.16
Aldrin	12.230	257210.66	21.7649	0.657	1	14.30
Heptachlor epoxide	13.829	233270.46	21.2638	0.657	1	13.97
gamma-Chlordane	14.146	236587.57	21.3386	0.657	1	14.02
alpha-Chlordane	14.481	229444.01	21.4975	0.657	1	14.12
4,4'-DDE	14.699	229816.95	21.8110	0.657	1	14.33
Endosulfan I	14.822	222837.55	22.0019	0.657	1	14.46
Dieldrin	15.431	237387.92	21.7808	0.657	1	14.31
Endrin	16.004	199451.68	23.0913	0.657	1	15.17
4,4'-DDD	16.198	187423.53	21.5850	0.657	1	14.18
Endosulfan II	16.570	202701.24	21.7630	0.657	1	14.30
4,4'-DDT	16.885	190425.84	22.7975	0.657	1	14.98
Endrin aldehyde	17.619	122141.75	16.3631	0.657	1	10.75
Methoxychlor	18.098	86381.05	23.4608	0.657	1	15.41
Endosulfan sulfate	18.699	165354.63	19.8885	0.657	1	13.07
Endrin ketone	19.372	205763.60	19.9501	0.657	1	13.11
Decachlorobiphenyl	21.402	136306.00	21.0019	0.657	1	13.80
		4621260.95	475.8774			312.67

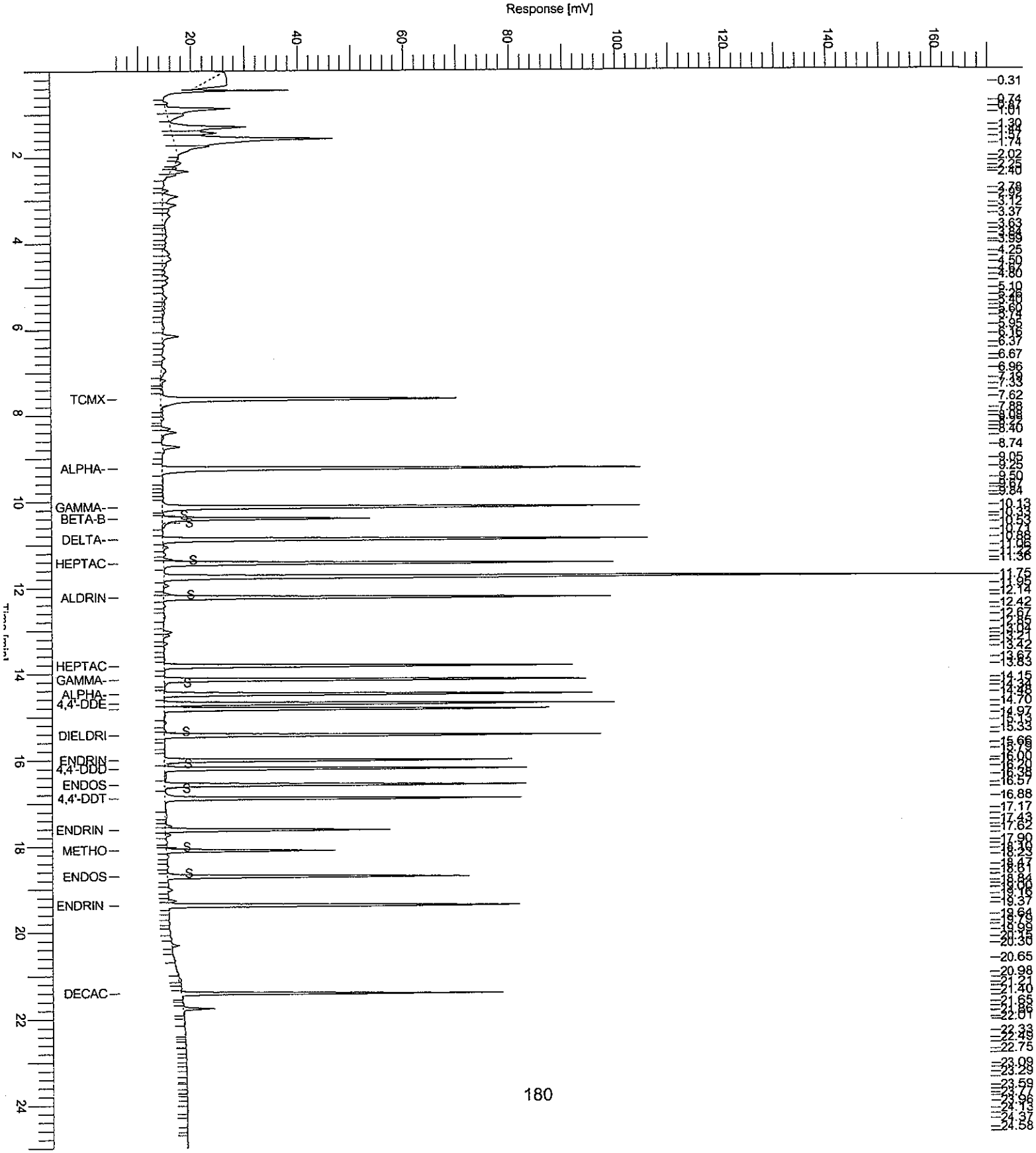
10/14/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\287a009p.TX0

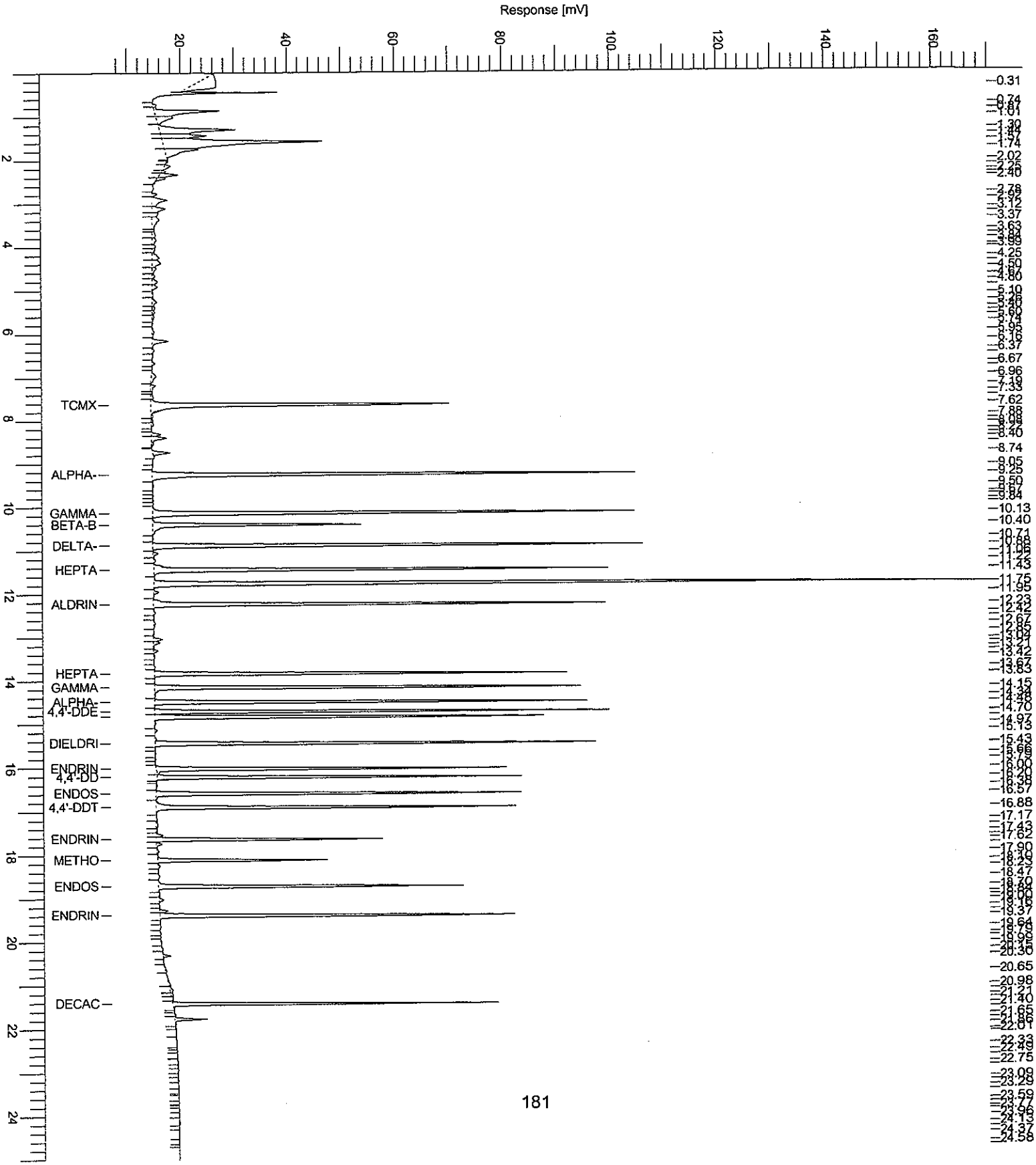
GC23 Rtx-CLPesticides

mple Name : qc267745,95382,lcs Sample #: 95382 Page 1 of 1
eName : G:\gc23\CHa\287a009.raw
ate : 10/14/04 12:47:56 PM
ethod : Time of Injection: 10/13/04 7:11:41 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 5.87 mV High Point : 170.12 mV
ot Offset: 5.87 mV Plot Scale: 164.3 mV



GC23 Rtx-CLPesticides

ıple Name : qc267745,95382,lcs Sample #: 95382 Page 1 of 1
Name : G:\gc23\CHa\287a009.raw
ə : 10/14/04 10:45:30 AM
hod : gc23ins Time of Injection: 10/13/04 7:11:41 PM
t Time : 0.00 min End Time : 25.00 min Low Point : 6.28 mV High Point : 170.12 mV
le Factor: 1.0 Plot Offset: 6.28 mV Plot Scale: 163.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267745,95382,lcs
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 10/14/04 12:50:51 PM
Data Acquisition Time : 10/13/04 7:11:41 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b009p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

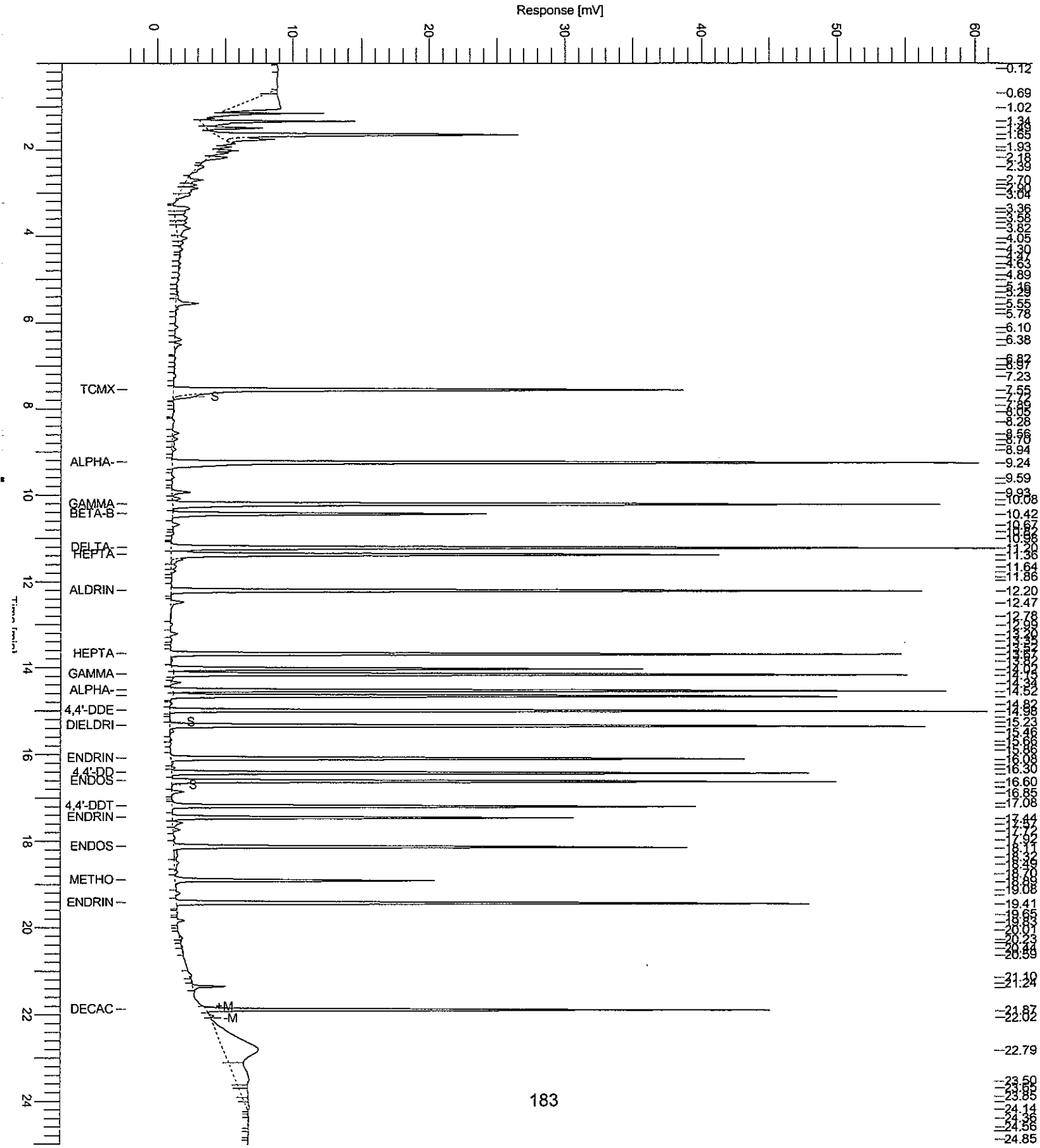
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.548	128921.00	18.8790	0.657	1	12.40
alpha-BHC	9.236	183457.00	18.0138	0.657	1	11.84
gamma-BHC	10.201	167188.23	18.1624	0.657	1	11.93
beta-BHC	10.422	71793.50	17.6434	0.657	1	11.59
delta-BHC	11.202	173752.01	19.2014	0.657	1	12.62
Heptachlor	11.365	123647.72	19.5926	0.657	1	12.87
Aldrin	12.197	162218.37	18.7690	0.657	1	12.33
Heptachlor epoxide	13.670	147586.57	18.4676	0.657	1	12.13
gamma-Chlordane	14.146	149153.00	18.1766	0.657	1	11.94
alpha-Chlordane	14.517	147709.00	18.5250	0.657	1	12.17
Endosulfan I	14.645	140118.00	18.6454	0.657	1	12.25
4,4'-DDE	14.982	149810.00	18.9182	0.657	1	12.43
Dieldrin	15.330	152033.82	18.7804	0.657	1	12.34
Endrin	16.078	122681.92	18.8512	0.657	1	12.39
4,4'-DDD	16.403	118073.99	18.3030	0.657	1	12.03
Endosulfan II	16.598	130389.50	18.5836	0.657	1	12.21
4,4'-DDT	17.171	103548.35	18.8850	0.657	1	12.41
Endrin aldehyde	17.435	78958.50	14.1137	0.657	1	9.27
Endosulfan sulfate	18.114	104254.17	16.5978	0.657	1	10.91
Methoxychlor	18.887	52857.94	20.9007	0.657	1	13.73
Endrin ketone	19.412	133241.00	17.7803	0.657	1	11.68
Decachlorobiphenyl	21.868	88797.80	18.7943	0.657	1	12.35
		2830191.40	404.5843			265.82

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\287b009p.TX0

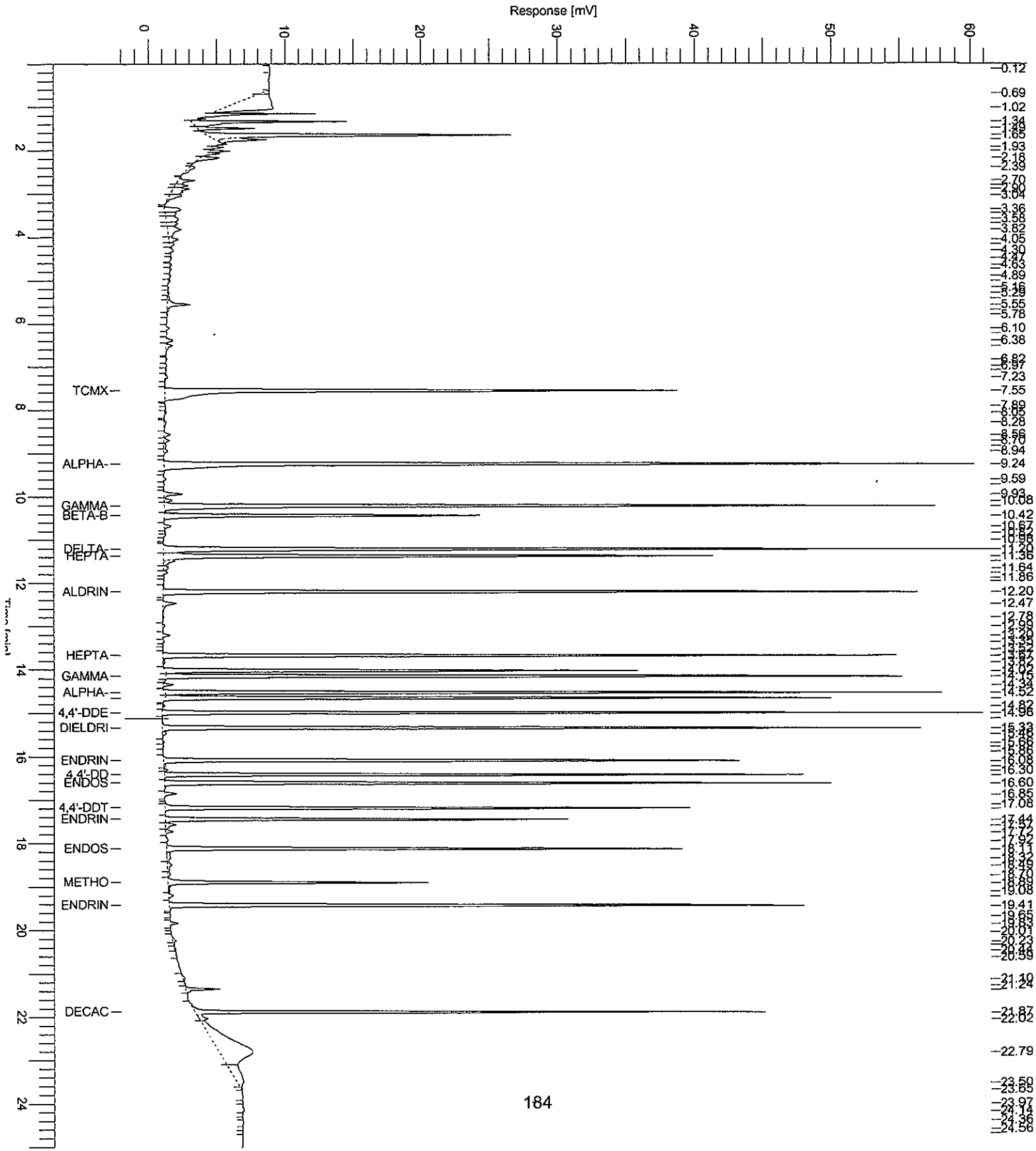
GC23 Rtx-CLPesticides2

ample Name : qc267745,95382,lcs Sample #: 95382 Page 1 of 1
ileName : G:\gc23\CHb\287b009.raw
ate : 10/14/04 12:50:57 PM
lethod : Time of Injection: 10/13/04 7:11:41 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.23 mV High Point : 61.57 mV
lot Offset: -2.23 mV Plot Scale: 63.8 mV



GC23 Rtx-CLPesticides2

ample Name : qc267745,95382,lcs Sample #: 95382 Page 1 of 1
leName : G:\gc23\CHb\287b009
ate : 10/14/04 10:46:24 AM
ethod : gc23ins Time of Injection: 10/13/04 7:11:41 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.07 mV High Point : 61.57 mV
cale Factor: 1.0 Plot Offset: -2.07 mV Plot Scale: 63.6 mV



SPIKE USER REPORT FOR BATCH 95271
Curtis & Tompkins Laboratories
EPA 8081A

nstid : GC23
eqnum : 804410063016
ilename : 284_016
DF : 1.0
un type : MSS
amplenum: 174988-006
atrix : Soil
atchnum : 95271
nj : 11-OCT-2004 02:03
nits : ug/Kg

Instid : GC23
Seqnum : 804410063061
Filename : 284_061
IDF : 1.0
Run type : MS
Samplenum: QC267274
Matrix : Soil
Batchnum : 95271
Inj : 12-OCT-2004 03:13

Instid : GC23
Seqnum : 804410063062
Filename : 284_062
IDF : 1.0
Run type : MSD
Samplenum: QC267275
Matrix : Soil
Batchnum : 95271
Inj : 12-OCT-2004 03:43

SS: 14.97 g --> 10.0 ml = 0.668 ml/g PDF
MS: 15.15 g --> 10.0 ml = 0.6601 ml/g PDF
SD: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	A	16.72	12.02	A	73	11.74	A	70	65-120	4	35	
Heptachlor	ND	A	16.72	11.83	A	72	11.80	A	71	65-135	2	35	
Aldrin	ND	A	16.72	11.46	A	69	11.34	A	68	65-130	2	35	
Dieldrin	ND	A	16.72	12.17	A	74	11.94	A	71	65-135	3	35	
Endrin	ND	A	16.72	12.84	A	78	12.64	A	76	65-135	3	35	
4,4'-DDT	ND	A	16.72	9.693	A	59*	10.75	A	64*	65-135	9	35	
TCMX			13.38	11.92	A	90	12.40	A	93	65-135	--		
Decachlorobiphenyl			13.38	10.09	A	76	11.68	A	87	65-135	--		>c-

185

DDT = matrix effect
RA 10/12/04

mm 10/13/04

-=low bias >=closing c=CCV

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

nstid : GC23
eqnum : 804410063016
ilename : 284_016
DF : 1.0
un type : MSS
amplenum: 174988-006
atrix : Soil
atchnum : 95271
nj : 11-OCT-2004 02:03
nits : ug/Kg

Instid : GC23
Seqnum : 804410063061
Filename : 284_061
IDF : 1.0
Run type : MS
Samplenum: QC267274
Matrix : Soil
Batchnum : 95271
Inj : 12-OCT-2004 03:13

Instid : GC23
Seqnum : 804410063062
Filename : 284_062
IDF : 1.0
Run type : MSD
Samplenum: QC267275
Matrix : Soil
Batchnum : 95271
Inj : 12-OCT-2004 03:43

SS: 14.97 g --> 10.0 ml = 0.668 ml/g PDF
MS: 15.15 g --> 10.0 ml = 0.6601 ml/g PDF
SD: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF

nalyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	A	16.72	12.02	A	73	11.74	A	70	36-120	4	56	
Heptachlor	ND	A	16.72	11.83	A	72	11.80	A	71	45-141	2	55	
Aldrin	ND	A	16.72	11.46	A	69	11.34	A	68	35-130	2	47	
Dieldrin	ND	A	16.72	12.17	A	74	11.94	A	71	40-137	3	42	
Endrin	ND	A	16.72	12.84	A	78	12.64	A	76	46-148	3	48	
4,4'-DDT	ND	A	16.72	9.693	A	59	10.75	A	64	15-167	9	55	
alpha-BHC	ND	A	16.72	11.81	A	72	11.50	A	69	35-123	4	53	
beta-BHC	ND	A	16.72	14.04	A	85	12.86	A	77	40-138	10	56	
delta-BHC	ND	A	16.72	12.45	A	75	12.25	A	73	19-135	3	53	
Heptachlor epoxide	ND	A	16.72	11.79	A	71	11.69	A	70	43-143	2	48	
gamma-Chlordane	ND	A	16.72	12.10	A	73	13.42	A	80	38-135	9	47	
alpha-Chlordane	ND	A	16.72	11.66	A	71	11.68	A	70	39-134	1	49	
Endosulfan I	ND	A	16.72	12.66	A	77	11.84	A	71	34-138	8	54	
4,4'-DDE	ND	A	16.72	11.24	A	68	11.13	A	67	40-128	2	45	
Endosulfan II	ND	A	16.72	11.33	A	69	11.45	A	68	30-131	0	54	
Endosulfan sulfate	ND	A	16.72	9.541	A	58	9.373	A	56	14-147	3	56	
4,4'-DDD	ND	A	16.72	11.97	A	73	11.71	A	70	37-140	4	50	
Endrin aldehyde	ND	A	16.72	5.944	A	36	4.146	A	25	1-122	37	62	
Endrin ketone	ND	A	16.72	10.00	A	61	10.27	A	61	6-152	1	62	
Methoxychlor	ND	A	16.72	11.83	A	72	12.69	A	76	19-189	6	63	v+

186

+=high bias -=low bias >=closing c=CCV v=ICV

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804410063016	Seqnum : 804410063061	Seqnum : 804410063062
Filename : 284_016	Filename : 284_061	Filename : 284_062
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174988-006	Samplenum: QC267274	Samplenum: QC267275
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95271	Batchnum : 95271	Batchnum : 95271
Inj : 11-OCT-2004 02:03	Inj : 12-OCT-2004 03:13	Inj : 12-OCT-2004 03:43
Units : ug/Kg		

Analyte	MSS	Ch Spike Conc	MS Ch	%Rec	MSD Ch	%Rec	Lim%Rec	RPD	Lim	Flags
TCMX		13.38	11.92 A	90	12.40 A	93	41-137	--		
Decachlorobiphenyl		13.38	10.09 A	76	11.68 A	87	42-160	--		>c-

+=high bias -=low bias >=closing c=CCV v=ICV

Software Version : 6.1.2.0.1:D19
Sample Name : qc267274,95271,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 61

Date : 10/12/04 3:40:05 PM
Data Acquisition Time : 10/12/04 3:13:30 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a061p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.799	169416.05	18.0658	0.660	1	11.92
alpha-BHC	9.422	260023.00	17.8959	0.660	1	11.81
gamma-BHC	10.318	238921.49	18.2125	0.660	1	12.02
beta-BHC	10.583	118513.00	21.2647	0.660	1	14.04
delta-BHC	11.066	247632.38	18.8635	0.660	1	12.45
Heptachlor	11.620	192764.17	17.9163	0.660	1	11.83
Aldrin	12.421	210095.50	17.3572	0.660	1	11.46
Heptachlor epoxide	14.022	201537.02	17.8658	0.660	1	11.79
gamma-Chlordane	14.344	208751.23	18.3290	0.660	1	12.10
alpha-Chlordane	14.681	194856.87	17.6690	0.660	1	11.66
4,4'-DDE	14.896	185808.18	17.0317	0.660	1	11.24
Endosulfan I	15.028	199107.85	19.1772	0.660	1	12.66
Dieldrin	15.633	208267.92	18.4425	0.660	1	12.17
Endrin	16.213	169873.59	19.4463	0.660	1	12.84
4,4'-DDD	16.398	171221.27	18.1291	0.660	1	11.97
Endosulfan II	16.781	167305.87	17.1594	0.660	1	11.33
4,4'-DDT	17.086	112409.03	14.6846	0.660	1	9.69
Endrin aldehyde	17.830	68994.83	9.0044	0.660	1	5.94
Methoxychlor	18.298	60582.94	17.9261	0.660	1	11.83
Endosulfan sulfate	18.913	124530.65	14.4542	0.660	1	9.54
Endrin ketone	19.587	158860.72	15.1515	0.660	1	10.00
Decachlorobiphenyl	21.568	101562.13	15.2900	0.660	1	10.09
		3771035.70	379.3366			250.39

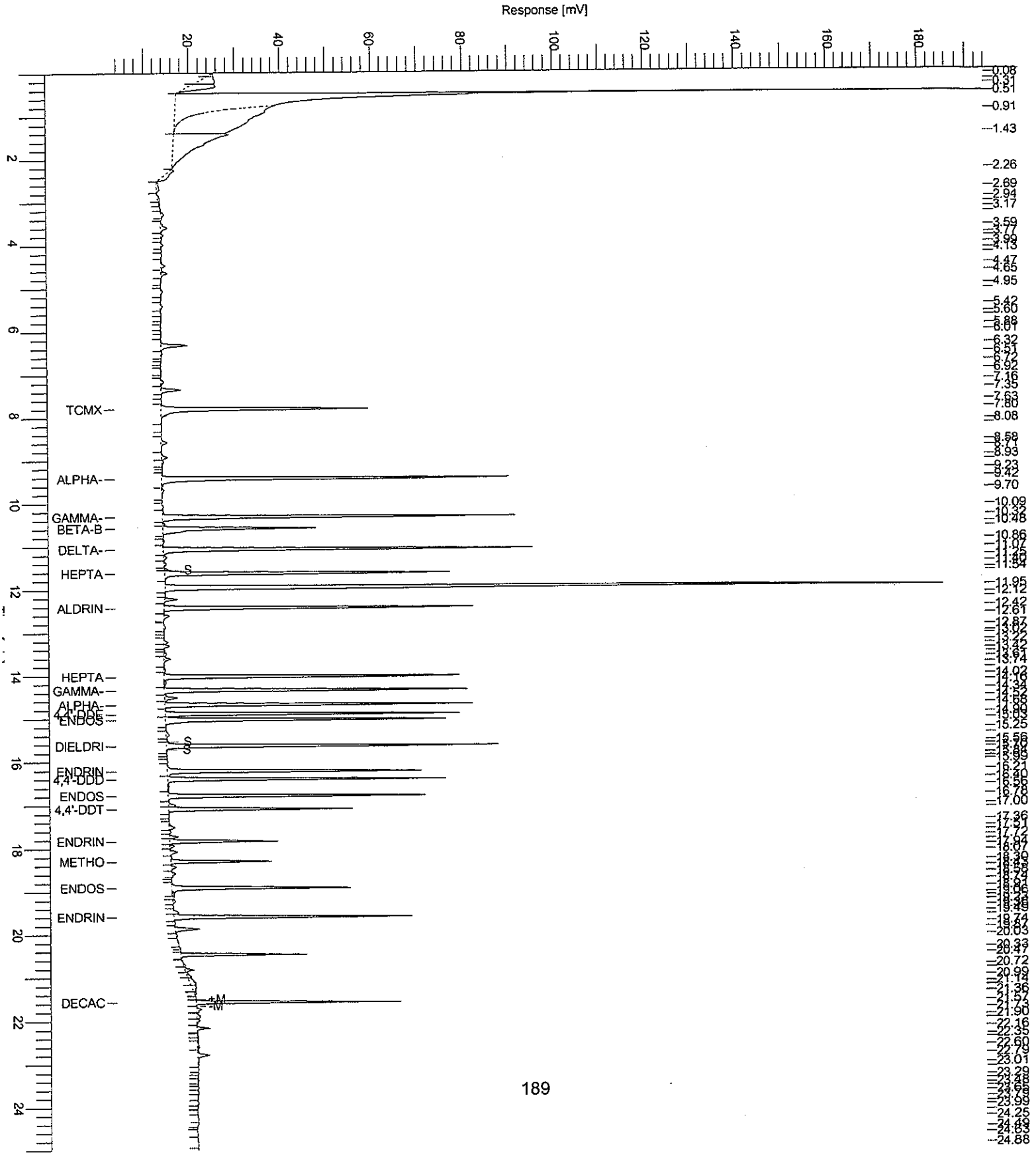
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a061p.TX0

RA
10/12/04

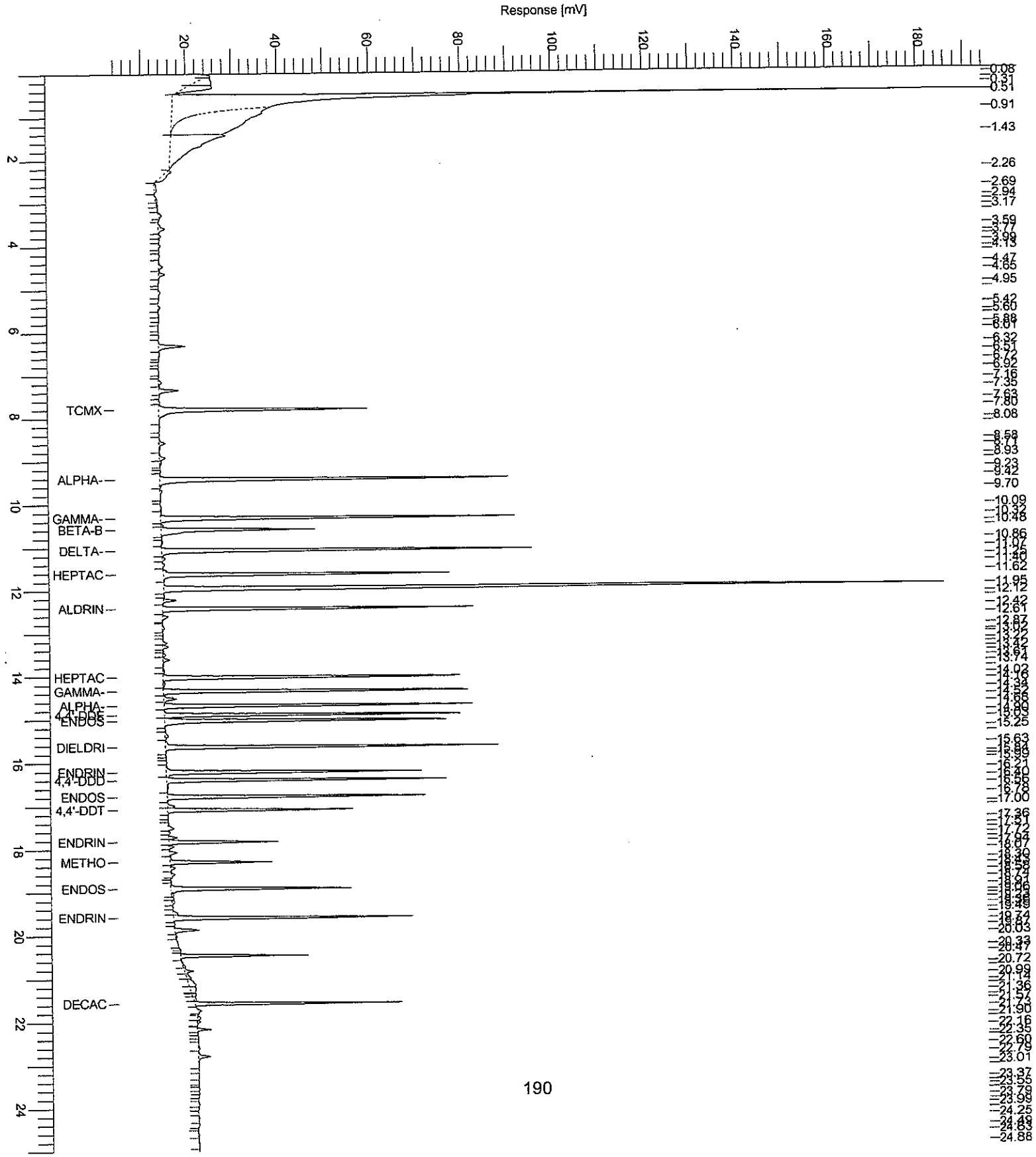
GC23 Rtx-CLPesticides

ɪnple Name : qc267274,95271,ms Sample #: 95271 Page 1 of 1
ɜName : G:\gc23\CHa\284a061.raw
te : 10/12/04 3:40:09 PM
thod : Time of Injection: 10/12/04 3:13:30 AM
ırt Time : 0.00 min End Time : 25.00 min Low Point : 3.36 mV High Point : 194.06 mV
ıt Offset: 3.36 mV Plot Scale: 190.7 mV



GC23 Rtx-CLPesticides

ıple Name : qc267274,95271,ms Sample #: 95271 Page 1 of 1
Name : G:\gc23\CHa\284a061.raw
e : 10/12/04 3:12:04 PM
hod : gc23ins Time of Injection: 10/12/04 3:13:30 AM
t Time : 0.00 min End Time : 25.00 min Low Point : 3.84 mV High Point : 194.06 mV
le Factor: 1.0 Plot Offset: 3.84 mV Plot Scale: 190.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267274,95271,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 61

Date : 10/12/04 3:31:24 PM
Data Acquisition Time : 10/12/04 3:13:30 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b061p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.716	172614.02	18.4426	0.660	1	12.17
alpha-BHC	9.405	266480.87	18.6228	0.660	1	12.29
gamma-BHC	10.371	245043.43	18.9394	0.660	1	12.50
beta-BHC	10.596	109951.50	18.9879	0.660	1	12.53
delta-BHC	11.373	258675.83	19.9518	0.660	1	13.17
Heptachlor	11.537	158775.47	18.5445	0.660	1	12.24
Aldrin	12.372	231233.04	19.0169	0.660	1	12.55
Heptachlor epoxide	13.850	215716.47	19.3858	0.660	1	12.80
gamma-Chlordane	14.321	219595.20	19.0230	0.660	1	12.56
alpha-Chlordane	14.698	214307.00	19.2579	0.660	1	12.71
Endosulfan I	14.822	204734.00	19.6357	0.660	1	12.96
4,4'-DDE	15.153	212249.00	19.3941	0.660	1	12.80
Dieldrin	15.512	230655.00	20.7752	0.660	1	13.71
Endrin	16.262	180154.74	22.0597	0.660	1	14.56
4,4'-DDD	16.582	203474.38	22.1640	0.660	1	14.63
Endosulfan II	16.782	197882.88	20.5397	0.660	1	13.56
4,4'-DDT	17.350	101859.59	15.3709	0.660	1	10.15
Endrin aldehyde	17.618	86009.67	11.2311	0.660	1	7.41
Endosulfan sulfate	18.297	137093.36	15.7367	0.660	1	10.39
Methoxychlor	19.065	64196.46	20.9729	0.660	1	13.84
Endrin ketone	19.598	181105.66	17.5203	0.660	1	11.56
Decachlorobiphenyl	22.014	112730.37	18.4722	0.660	1	12.19
		4004537.95	414.0453			273.30

----------CURTIS & TOMPKINS LTD----------

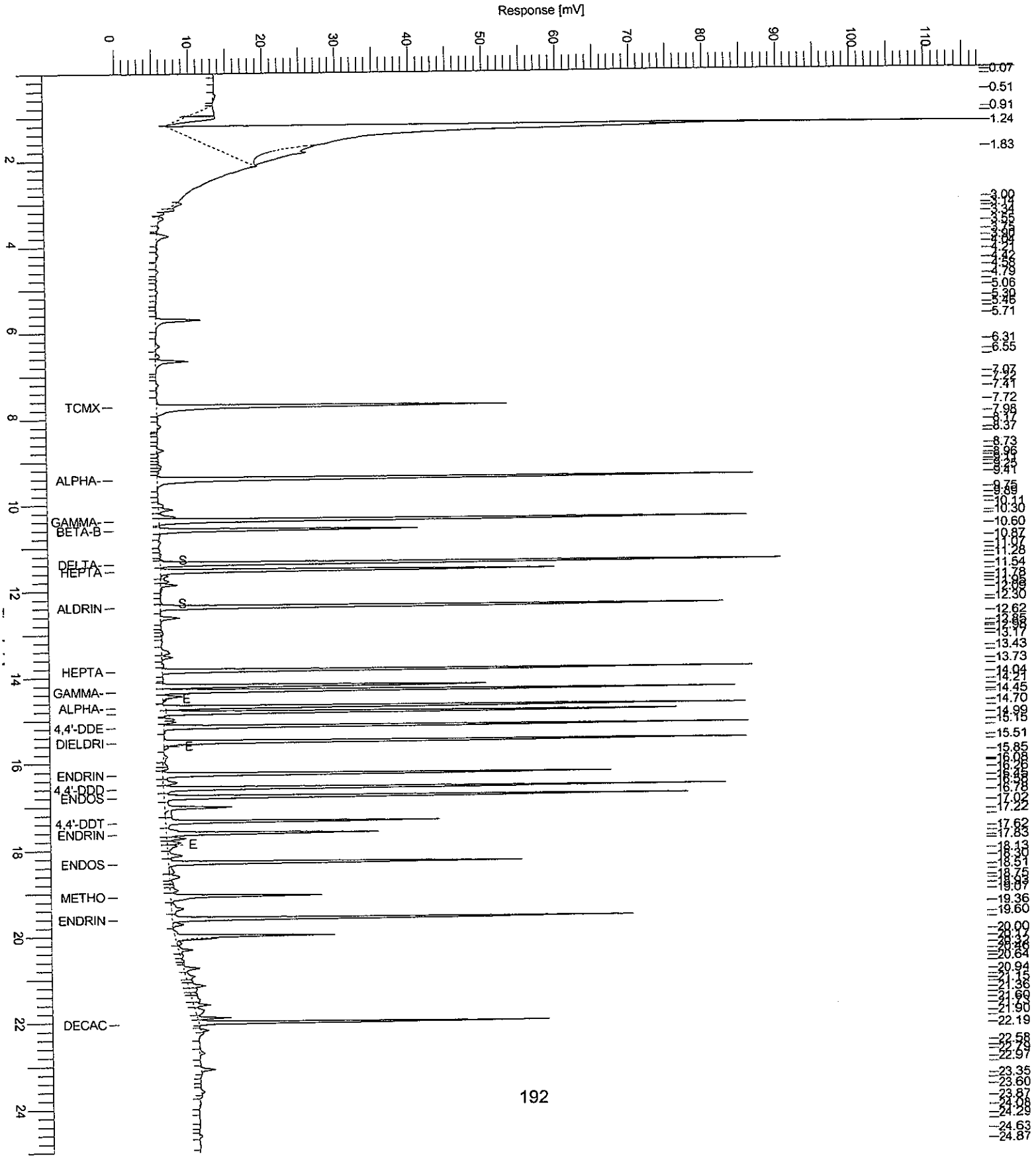
Report stored in ASCII file: G:\gc23\CHB\284b061p.TX0

GC23 Rtx-CLPesticides2

ıple Name : qc267274,95271,ms
Name : G:\gc23\CHb\284b061.raw
ɜ : 10/12/04 3:31:28 PM
nod :
t Time : 0.00 min
Offset: -0.69 mV

Sample #: 95271

Time of Injection: 10/12/04 3:13:30 AM
End Time : 25.00 min
Low Point : -0.69 mV
High Point : 117.43 mV
Plot Scale: 118.1 mV

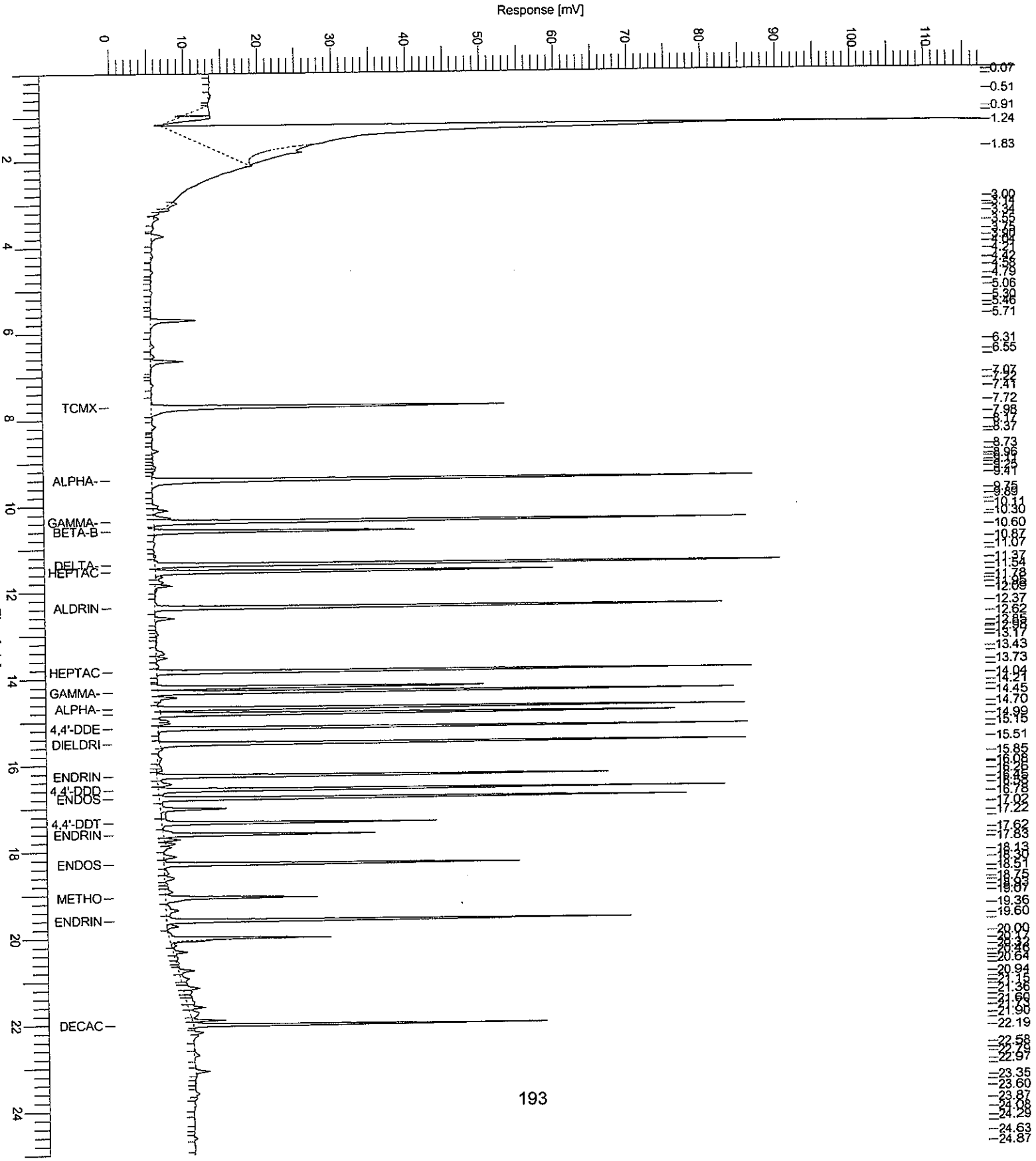


GC23 Rtx-CLPesticides2

ıple Name : qc267274,95271.ms
Name : G:\gc23\CHb\284b061
ɜ : 10/12/04 3:12:24 PM
hod : gc23ins
t Time : 0.00 min End Time : 25.00 min
le Factor: 1.0 Plot Offset: -0.39 mV

Sample #: 95271 Page 1 of 1

Time of Injection: 10/12/04 3:13:30 AM
Low Point : -0.39 mV High Point : 117.43 mV
Plot Scale: 117.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267275,95271,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 62

Date : 10/12/04 3:41:28 PM
Data Acquisition Time : 10/12/04 3:43:34 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a062p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.796	173846.91	18.5383	0.669	1	12.40
alpha-BHC	9.420	249718.04	17.1867	0.669	1	11.50
gamma-BHC	10.315	230226.15	17.5496	0.669	1	11.74
beta-BHC	10.580	107168.78	19.2292	0.669	1	12.86
delta-BHC	11.063	240474.56	18.3182	0.669	1	12.25
Heptachlor	11.617	189866.57	17.6470	0.669	1	11.80
Aldrin	12.419	205148.73	16.9485	0.669	1	11.34
Heptachlor epoxide	14.020	197076.82	17.4704	0.669	1	11.69
gamma-Chlordane	14.336	228511.67	20.0640	0.669	1	13.42
alpha-Chlordane	14.679	192526.40	17.4577	0.669	1	11.68
4,4'-DDE	14.888	181572.00	16.6434	0.669	1	11.13
Endosulfan I	15.021	183713.00	17.6945	0.669	1	11.84
Dieldrin	15.631	201526.15	17.8455	0.669	1	11.94
Endrin	16.206	165024.00	18.8912	0.669	1	12.64
4,4'-DDD	16.395	165290.50	17.5011	0.669	1	11.71
Endosulfan II	16.777	166929.86	17.1208	0.669	1	11.45
4,4'-DDT	17.083	123029.63	16.0720	0.669	1	10.75
Endrin aldehyde	17.822	47493.27	6.1983	0.669	1	4.15
Methoxychlor	18.294	64127.19	18.9748	0.669	1	12.69
Endosulfan sulfate	18.905	120730.26	14.0131	0.669	1	9.37
Endrin ketone	19.584	160906.57	15.3466	0.669	1	10.27
Decachlorobiphenyl	21.567	115954.39	17.4567	0.669	1	11.68
		3710861.45	374.1676			250.28

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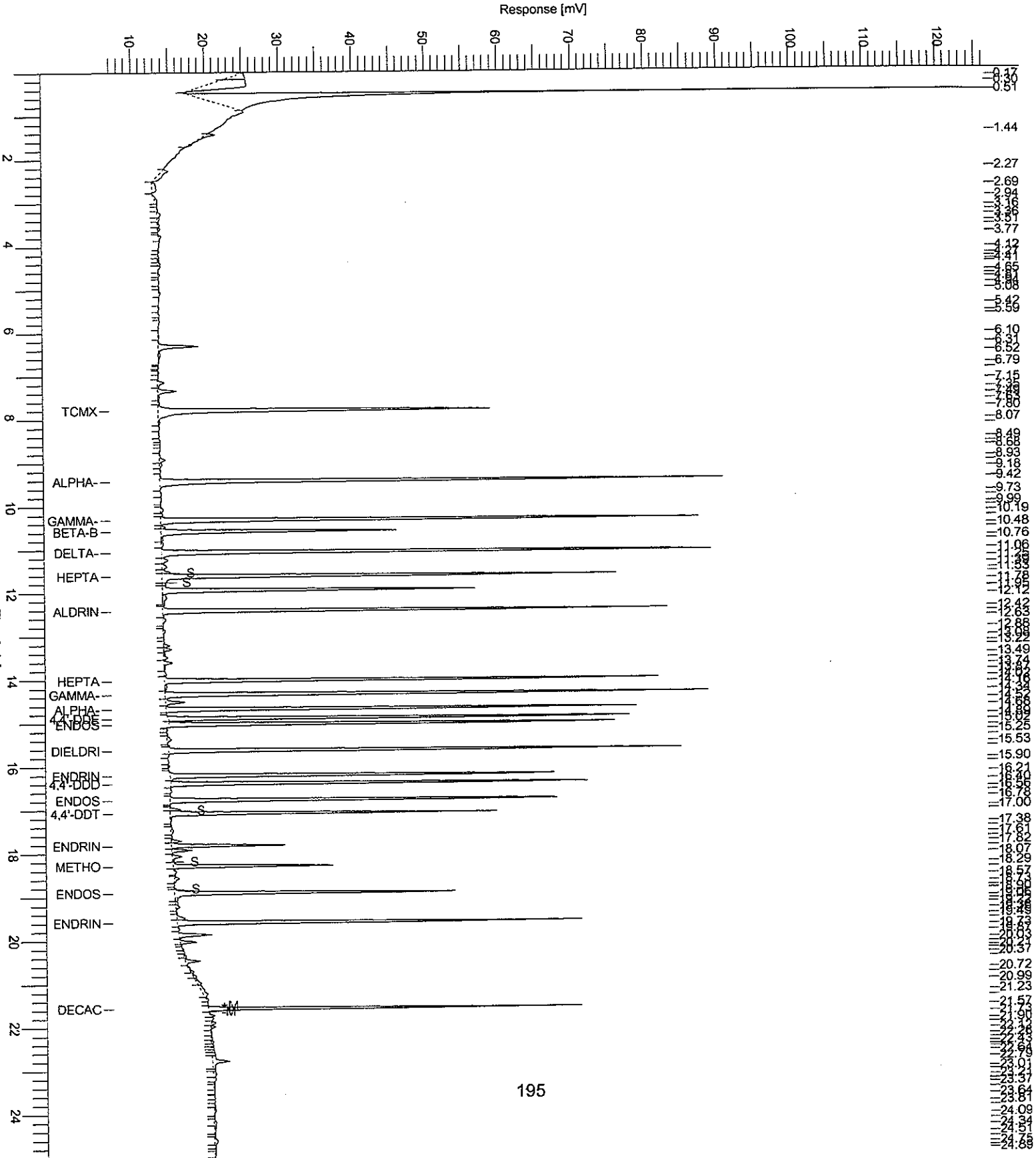
Report stored in ASCII file: G:\gc23\CHA\284a062p.TX0

RM
10/12/04

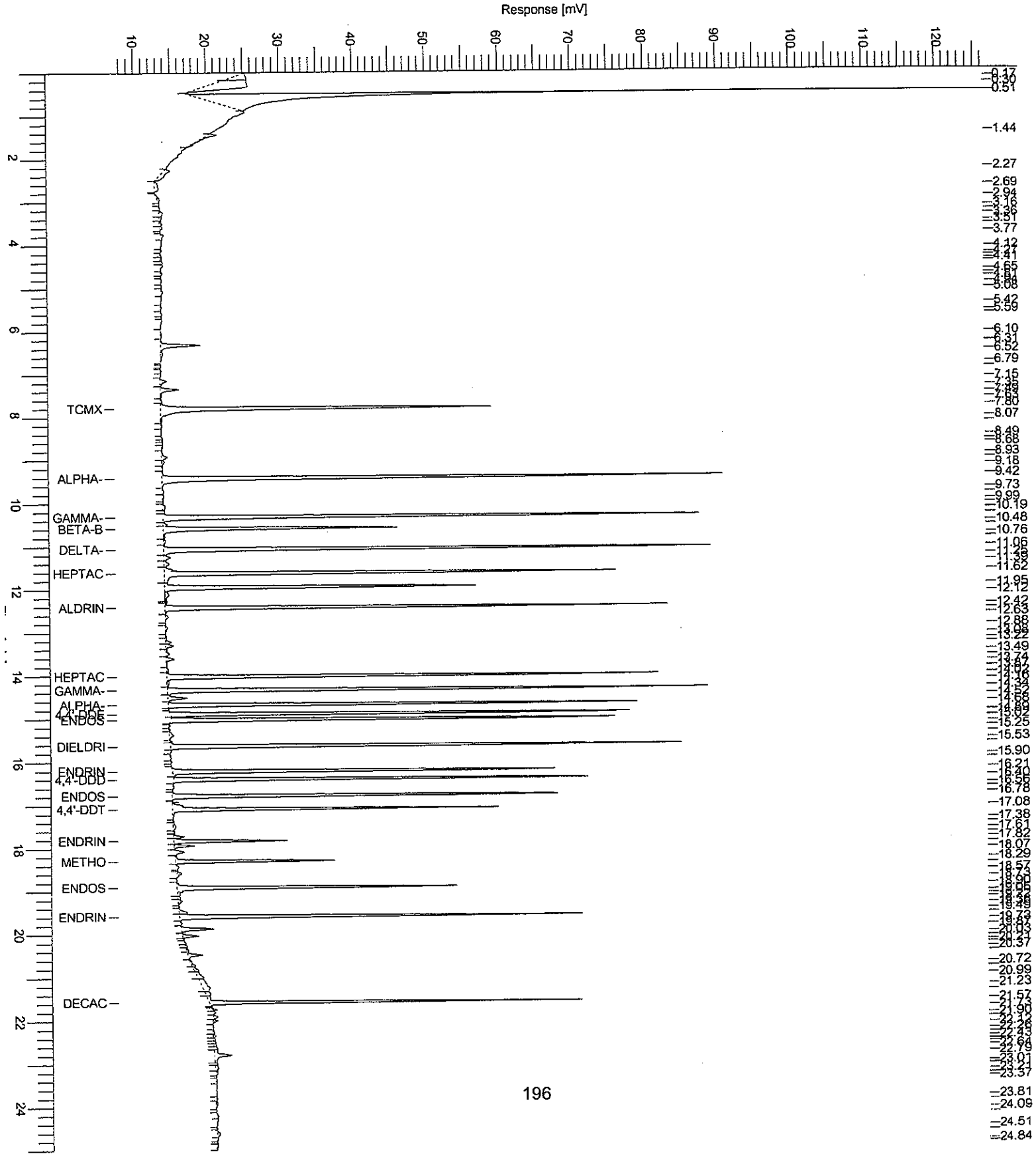
GC23 Rtx-CLPesticides

nple Name : qc267275,95271,msd Sample #: 95271 Page 1 of 1
Name : G:\gc23\CHa\284a062.raw
e : 10/12/04 3:41:32 PM
hod : Time of Injection: 10/12/04 3:43:34 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : 6.83 mV High Point : 126.39 mV
l Offset: 6.83 mV Plot Scale: 119.6 mV



GC23 Rtx-CLPesticides

nple Name : qc267275,95271,msd Sample #: 95271 Page 1 of 1
Name : G:\gc23\CHa\284a062.raw
e : 10/12/04 3:12:08 PM
hod : gc23ins Time of Injection: 10/12/04 3:43:34 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : 7.13 mV High Point : 126.39 mV
ile Factor: 1.0 Plot Offset: 7.13 mV Plot Scale: 119.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267275,95271,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 62

Date : 10/12/04 3:33:25 PM
Data Acquisition Time : 10/12/04 3:43:34 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b062p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.714	177225.89	18.9354	0.669	1	12.67
alpha-BHC	9.403	253802.02	17.7367	0.669	1	11.86
gamma-BHC	10.368	232034.18	17.9339	0.669	1	12.00
beta-BHC	10.588	106373.00	18.3699	0.669	1	12.29
delta-BHC	11.370	243245.00	18.7616	0.669	1	12.55
Heptachlor	11.534	144873.39	16.9208	0.669	1	11.32
Aldrin	12.369	213461.32	17.5553	0.669	1	11.74
Heptachlor epoxide	13.847	200625.47	18.0296	0.669	1	12.06
gamma-Chlordane	14.318	205313.18	17.7858	0.669	1	11.90
alpha-Chlordane	14.695	199570.00	17.9336	0.669	1	12.00
Endosulfan I	14.819	190133.50	18.2354	0.669	1	12.20
4,4'-DDE	15.151	197177.56	18.0170	0.669	1	12.05
Dieldrin	15.504	211623.44	19.0610	0.669	1	12.75
Endrin	16.254	157093.97	19.2359	0.669	1	12.87
4,4'-DDD	16.579	181784.00	19.8013	0.669	1	13.25
Endosulfan II	16.779	176794.00	18.3507	0.669	1	12.27
4,4'-DDT	17.348	84015.78	12.6782	0.669	1	8.48
Endrin aldehyde	17.616	51139.65	6.6778	0.669	1	4.47
Endosulfan sulfate	18.288	120066.20	13.7822	0.669	1	9.22
Methoxychlor	19.062	54732.72	17.8811	0.669	1	11.96
Endrin ketone	19.590	164597.82	15.9233	0.669	1	10.65
Decachlorobiphenyl	22.014	106936.18	17.5228	0.669	1	11.72
		3672618.27	377.1296			252.26

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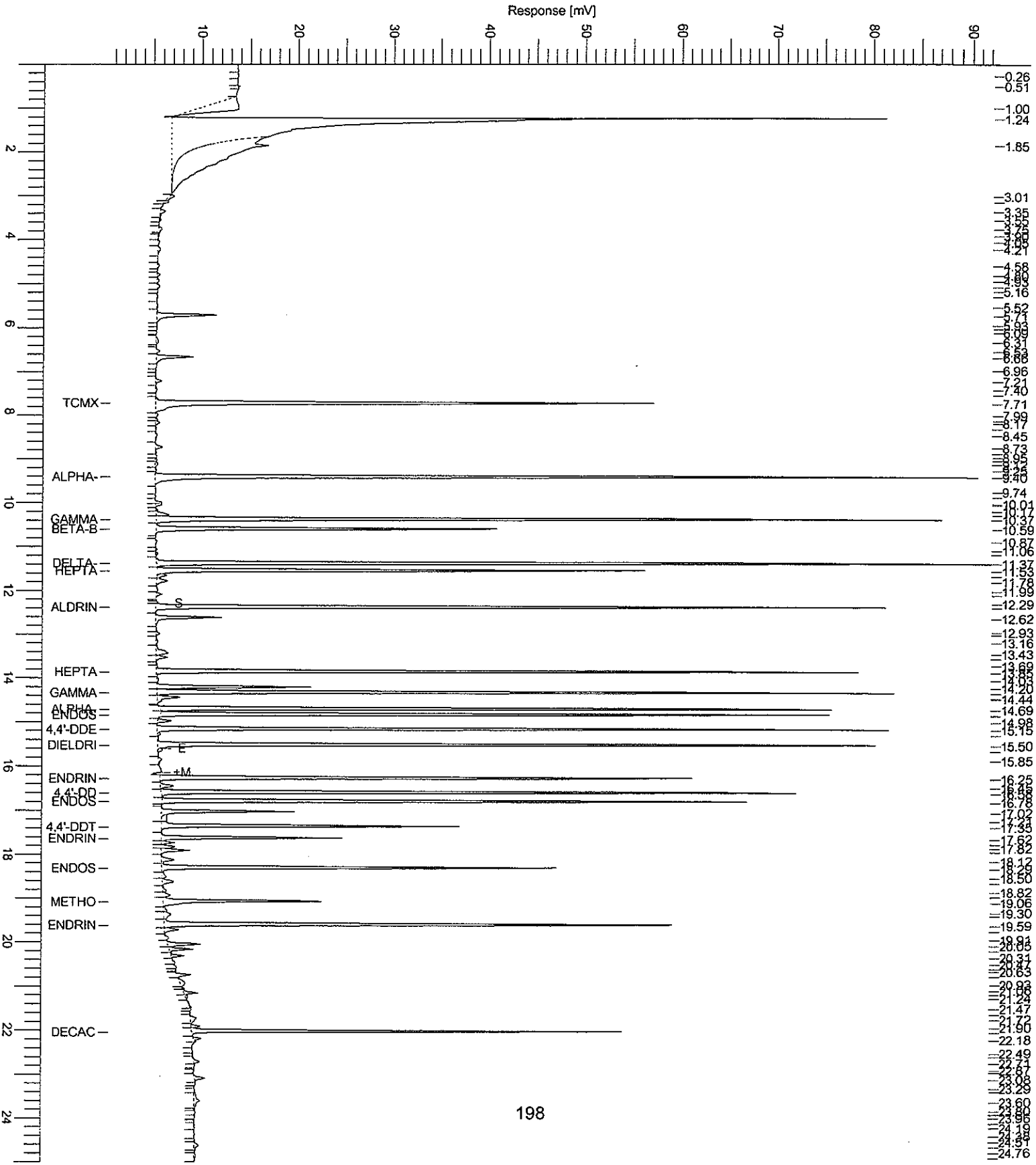
Report stored in ASCII file: G:\gc23\CHB\284b062p.TX0

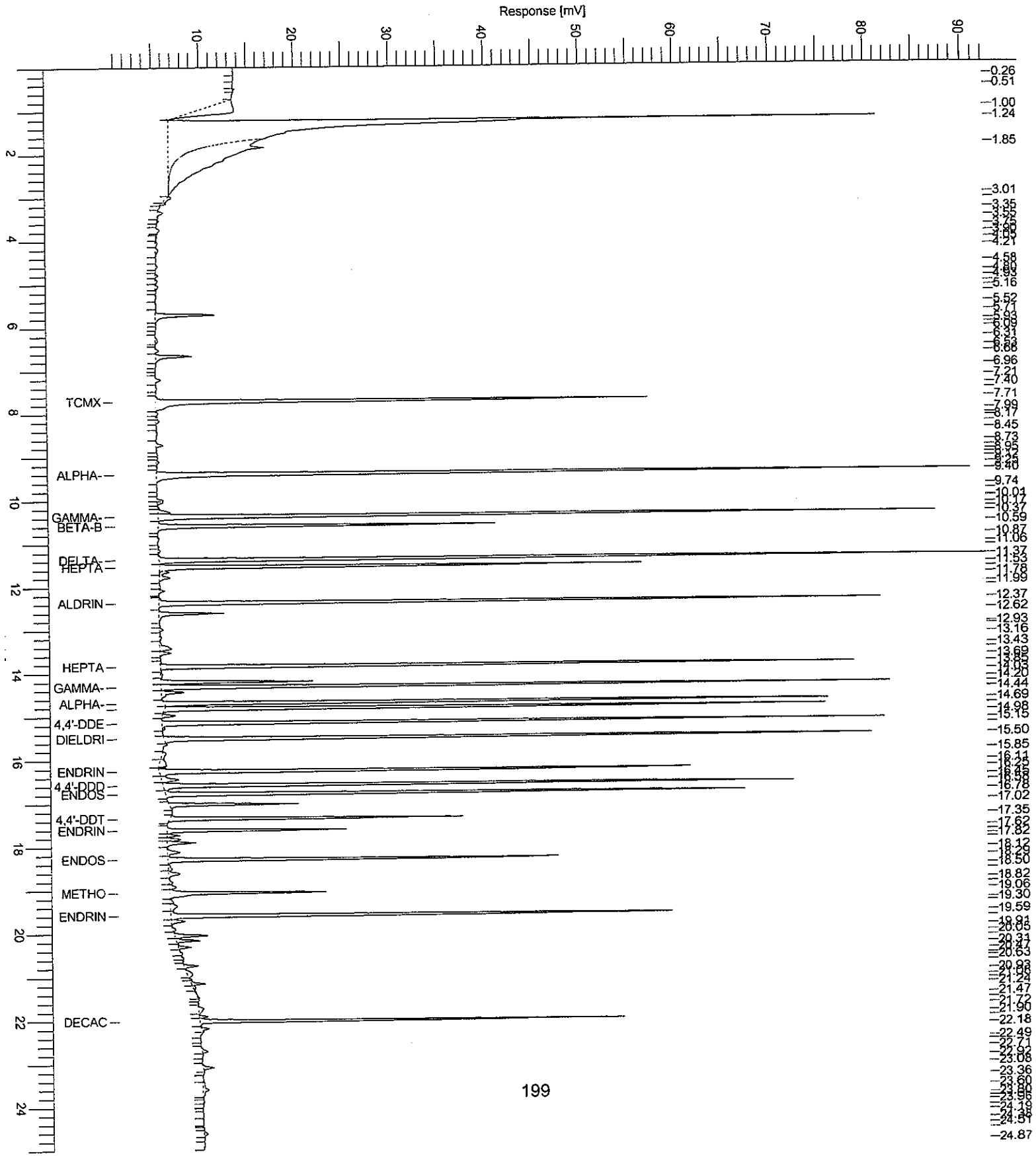
GC23 Rtx-CLPesticides2

ample Name : qc267275,95271,msd Sample #: 95271 Page 1 of 1
leName : G:\gc23\CHb\284b062.raw
ate : 10/12/04 3:33:28 PM
ethod : Time of Injection: 10/12/04 3:43:34 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 0.57 mV High Point : 92.18 mV
ot Offset: 0.57 mV Plot Scale: 91.6 mV



GC23 Rtx-CLPesticides2

ıple Name : qc267275,95271,msd Sample #: 95271 Page 1 of 1
Name : G:\gc23\CHb\284b062
e : 10/12/04 3:12:27 PM
ıod : gc23ins Time of Injection: 10/12/04 3:43:34 AM
t Time : 0.00 min End Time : 25.00 min Low Point : 0.80 mV High Point : 92.18 mV
le Factor: 1.0 Plot Offset: 0.80 mV Plot Scale: 91.4 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23
Seqnum : 804410063016
Filename : 284_016
IDF : 1.0

Samplenum: 174988-006
Matrix : Soil
Batchnum : 95271

Cident : PWAGP028
Acctnum : TTEMI (AMP)
Injected : 11-OCT-2004 02:03
Units : ug/Kg

Prep: 14.97 g --> 10.0 ml = 0.668 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=284_007	Flags
alpha-BHC	A	804386835001	ND						1.7		
beta-BHC	A	804386835001	ND						1.7		
gamma-BHC	A	804386835001	ND						1.7		
delta-BHC	A	804386835001	ND						1.7		
Heptachlor	A	804386835001	ND						1.7		
Aldrin	A	804386835001	ND						1.7		
Heptachlor epoxide	A	804386835001	ND						1.7		
Endosulfan I	A	804386835001	ND						1.7		
Dieldrin	A	804386835001	ND						3.3		
4,4'-DDE	A	804386835001	ND						3.3		
Endrin	A	804386835001	ND						3.3		
Endosulfan II	A	804386835001	ND						3.3		
Endosulfan sulfate	A	804386835001	ND						3.3		
4,4'-DDD	A	804386835001	ND						3.3		
Endrin aldehyde	A	804386835001	ND						3.3		
4,4'-DDT	A	804386835001	ND						3.3		
alpha-Chlordane	A	804386835001	ND						1.7		
gamma-Chlordane	A	804386835001	ND						1.7		
Methoxychlor	A	804386835001	ND						17		v+
Toxaphene	A		ND						60		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804386835001	13.36	10.45	78	41-137	
Decachlorobiphenyl	A	804386835001	13.36	11.99	90	42-160	

+=high bias v=ICV

Analyst: [signature] Date: 10/12/04 Reviewer: _____ Date: _____

Software Version : 6.1.2.0.1:D19
Sample Name : 174988-006,95271,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 10/12/04 3:56:05 PM
Data Acquisition Time : 10/11/04 2:03:09 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a016.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.807	146648.20	15.6379	0.668	1	10.45
alpha-BHC	9.443	905.75	0.0623	0.668	1	0.04
gamma-BHC	10.319	764.64	0.0583	0.668	1	0.04
beta-BHC	10.584	0.00	0.0000	0.668	1	0.00
delta-BHC	11.070	826.82	0.0630	0.668	1	0.04
Heptachlor	11.629	2218.60	0.2062	0.668	1	0.14
Aldrin	12.434	506.00	0.0418	0.668	1	0.03
Heptachlor epoxide	14.032	1650.32	0.1463	0.668	1	0.10
gamma-Chlordane	14.346	5909.65	0.5189	0.668	1	0.35
alpha-Chlordane	14.696	992.34	0.0900	0.668	1	0.06
4,4'-DDE	14.922	4506.97	0.4131	0.668	1	0.28
Endosulfan I	15.035	776.00	0.0747	0.668	1	0.05
Dieldrin	15.631	1172.47	0.1038	0.668	1	0.07
Endrin	16.240	651.15	0.0745	0.668	1	0.05
4,4'-DDD	16.421	1571.32	0.1664	0.668	1	0.11
Endosulfan II	16.788	4284.47	0.4394	0.668	1	0.29
4,4'-DDT	17.037	11051.48	1.4437	0.668	1	0.96
Endrin aldehyde	17.825	2552.99	0.3332	0.668	1	0.22
Methoxychlor	18.304	8700.31	2.5744	0.668	1	1.72
Endosulfan sulfate	18.887	5207.28	0.6044	0.668	1	0.40
Endrin ketone	19.592	1442.45	0.1376	0.668	1	0.09
Decachlorobiphenyl	21.578	119237.52	17.9510	0.668	1	11.99
		321576.74	41.1410			27.48

----------CURTIS & TOMPKINS LTD----------

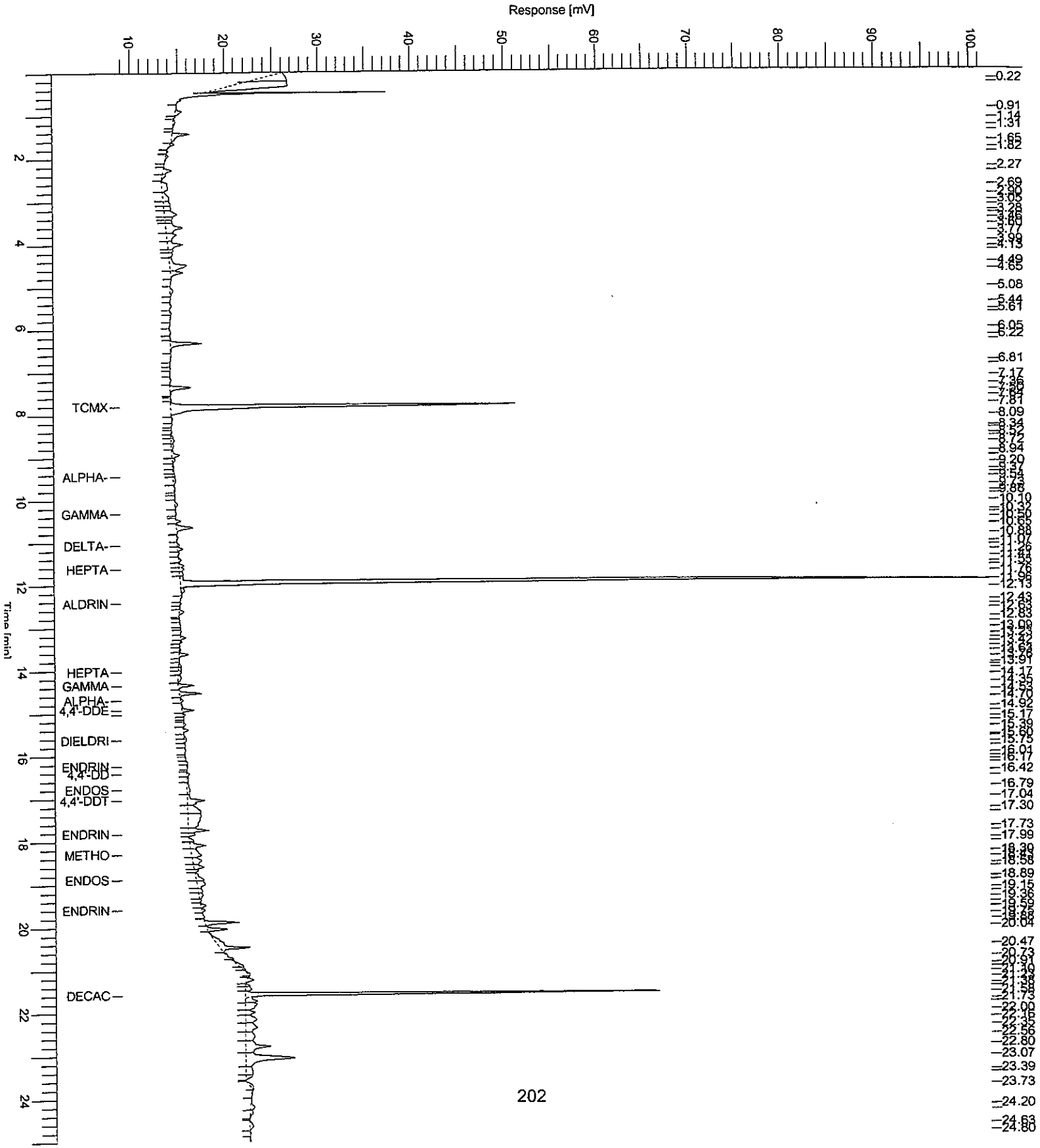
Report stored in ASCII file: G:\gc23\CHA\284a016.TX0

GC23 Rtx-CLPesticides

ımple Name : 174988-006,95271,mss
eName : G:\gc23\CHa\284a016.raw
ıte : 10/12/04 3:56:07 PM
ethod : gc23ins
art Time : 0.00 min End Time : 25.00 min Low Point : 8.83 mV High Point : 101.99 mV
:ale Factor: 1.0 Plot Offset: 8.83 mV Plot Scale: 93.2 mV

Sample #: 95271 Page 1 of 1

Time of Injection: 10/11/04 2:03:09 AM



Software Version : 6.1.2.0.1:D19
Sample Name : 174988-006,95271,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 10/12/04 3:56:01 PM
Data Acquisition Time : 10/11/04 2:03:09 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b016.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

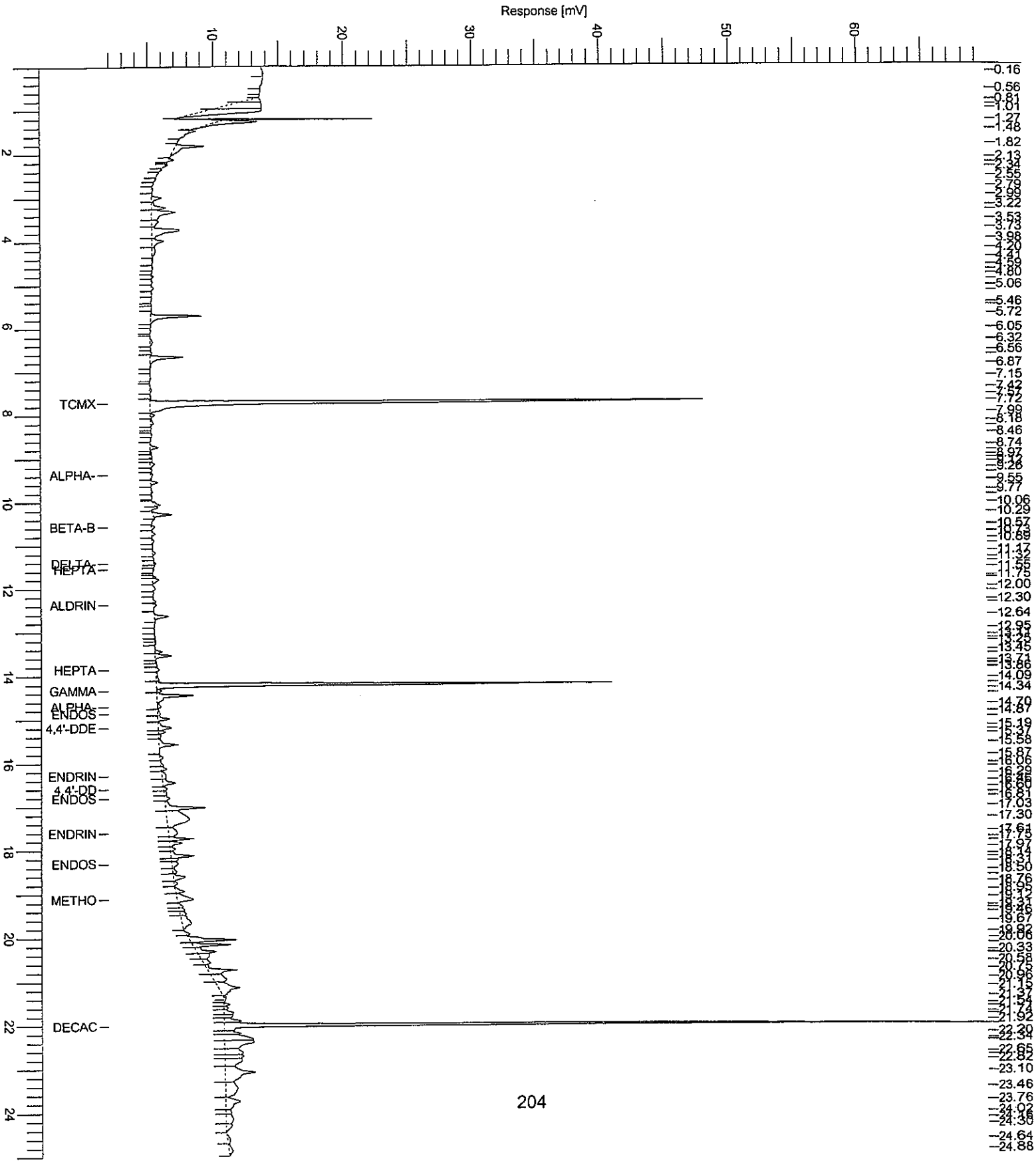
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.721	154263.95	16.4820	0.668	1	11.01
alpha-BHC	9.369	954.71	0.0667	0.668	1	0.04
gamma-BHC	10.385	0.00	0.0000	0.668	1	0.00
beta-BHC	10.569	1119.42	0.1933	0.668	1	0.13
delta-BHC	11.413	537.26	0.0414	0.668	1	0.03
Heptachlor	11.552	230.00	0.0269	0.668	1	0.02
Aldrin	12.371	1179.02	0.0970	0.668	1	0.06
Heptachlor epoxide	13.858	1272.08	0.1143	0.668	1	0.08
gamma-Chlordane	14.337	1365.00	0.1182	0.668	1	0.08
alpha-Chlordane	14.698	1349.00	0.1212	0.668	1	0.08
Endosulfan I	14.867	1236.60	0.1186	0.668	1	0.08
4,4'-DDE	15.194	5196.44	0.4748	0.668	1	0.32
Dieldrin	15.532	0.00	0.0000	0.668	1	0.00
Endrin	16.294	2681.48	0.3283	0.668	1	0.22
4,4'-DDD	16.599	1203.12	0.1311	0.668	1	0.09
Endosulfan II	16.813	1910.89	0.1983	0.668	1	0.13
4,4'-DDT	17.378	0.00	0.0000	0.668	1	0.00
Endrin aldehyde	17.611	7051.84	0.9208	0.668	1	0.62
Endosulfan sulfate	18.311	3129.02	0.3592	0.668	1	0.24
Methoxychlor	19.123	9206.20	3.0077	0.668	1	2.01
Endrin ketone	19.621	0.00	0.0000	0.668	1	0.00
Decachlorobiphenyl	22.019	144870.86	23.7389	0.668	1	15.86
		338756.91	46.5388			31.09

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\284b016.TX0

GC23 Rtx-CLPesticides2

mple Name : 174988-006,95271,mss Sample #: 95271 Page 1 of 1
eName : G:\gc23\CHb\284b016
te : 10/12/04 3:56:03 PM
thod : gc23ins Time of Injection: 10/11/04 2:03:09 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : 1.88 mV High Point : 69.80 mV
ale Factor: 1.0 Plot Offset: 1.88 mV Plot Scale: 67.9 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804414114046	Seqnum : 804414114049	Seqnum : 804414114050
Filename : 287_046	Filename : 287_049	Filename : 287_050
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 175066-003	Samplenum: QC267746	Samplenum: QC267747
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95382	Batchnum : 95382	Batchnum : 95382
Inj : 14-OCT-2004 15:49	Inj : 14-OCT-2004 17:20	Inj : 14-OCT-2004 17:51
Units : ug/Kg		

MSS: 14.99 g --(2.0X CDF)--> 5.0 ml = 0.6671 ml/g PDF
MS: 14.87 g --(2.0X CDF)--> 5.0 ml = 0.6725 ml/g PDF
MSD: 15.22 g --(2.0X CDF)--> 5.0 ml = 0.657 ml/g PDF

CL 10/15/04

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	B	16.43	11.35	B	68	13.50	B	82	36-120	20	56	
Heptachlor	ND	B	16.43	11.26	B	67	14.67	B	89	45-141	29	55	
Aldrin	ND	B	16.43	11.51	B	68	13.47	B	82	35-130	18	47	
Dieldrin	ND	B	16.43	12.06	B	72	14.17	B	86	40-137	18	42	
Endrin	ND	B	16.43	12.61	B	75	14.72	B	90	46-148	18	48	
4,4'-DDT	ND	B	16.43	11.78	B	70	14.04	B	86	15-167	20	55	
alpha-BHC	ND	B	16.43	10.66	B	63	12.57	B	77	35-123	19	53	
beta-BHC	ND	B	16.43	11.28	B	67	13.69	B	83	40-138	22	56	
delta-BHC	ND	B	16.43	12.29	B	73	14.51	B	88	19-135	19	53	
Heptachlor epoxide	ND	B	16.43	11.55	B	69	13.48	B	82	43-143	18	48	
gamma-Chlordane	ND	B	16.43	11.36	B	68	13.29	B	81	38-135	18	47	
alpha-Chlordane	ND	B	16.43	11.66	B	69	13.65	B	83	39-134	18	49	
Endosulfan I	ND	B	16.43	11.79	B	70	13.83	B	84	34-138	18	54	
4,4'-DDE	ND	B	16.43	11.26	B	67	13.78	B	84	40-128	22	45	
Endosulfan II	ND	B	16.43	12.15	B	72	14.28	B	87	30-131	18	54	
Endosulfan sulfate	ND	B	16.43	11.47	B	68	13.92	B	85	14-147	22	56	
4,4'-DDD	ND	B	16.43	11.54	B	69	14.08	B	86	37-140	22	50	
Endrin aldehyde	ND	B	16.43	8.101	B	48	11.68	B	71	1-122	38	62	
Endrin ketone	ND	B	16.43	12.00	B	71	14.24	B	87	6-152	19	62	
Methoxychlor	ND	B	16.43	14.63	B	87	16.55	B	101	19-189	15	63	

205

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804414114046	Seqnum : 804414114049	Seqnum : 804414114050
Filename : 287_046	Filename : 287_049	Filename : 287_050
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 175066-003	Samplenum: QC267746	Samplenum: QC267747
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95382	Batchnum : 95382	Batchnum : 95382
Inj : 14-OCT-2004 15:49	Inj : 14-OCT-2004 17:20	Inj : 14-OCT-2004 17:51
Units : ug/Kg		

Analyte	MSS	Ch Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD Lim	Flags
TCMX		13.14	8.299	B	62	11.55	B	88	41-137	--	
Decachlorobiphenyl		13.14	11.68	B	87	13.57	B	103	42-160	--	

206

SPIKE USER REPORT FOR BATCH 95382
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804414114046	Seqnum : 804414114049	Seqnum : 804414114050
Filename : 287_046	Filename : 287_049	Filename : 287_050
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 175066-003	Samplenum: QC267746	Samplenum: QC267747
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95382	Batchnum : 95382	Batchnum : 95382
Inj : 14-OCT-2004 15:49	Inj : 14-OCT-2004 17:20	Inj : 14-OCT-2004 17:51
Units : ug/Kg		

MSS: 14.99 g --(2.0X CDF)--> 5.0 ml = 0.6671 ml/g PDF
MS: 14.87 g --(2.0X CDF)--> 5.0 ml = 0.6725 ml/g PDF
MSD: 15.22 g --(2.0X CDF)--> 5.0 ml = 0.657 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	B	16.43	11.35	B	68	13.50	B	82	65-120	20	35	
Heptachlor	ND	B	16.43	11.26	B	67	14.67	B	89	65-135	29	35	
Aldrin	ND	B	16.43	11.51	B	68	13.47	B	82	65-130	18	35	
Dieldrin	ND	B	16.43	12.06	B	72	14.17	B	86	65-135	18	35	
Endrin	ND	B	16.43	12.61	B	75	14.72	B	90	65-135	18	35	
4,4'-DDT	ND	B	16.43	11.78	B	70	14.04	B	86	65-135	20	35	
TCMX			13.14	8.299	B	62*	11.55	B	88	65-135	--		
Decachlorobiphenyl			13.14	11.68	B	87	13.57	B	103	65-135	--		

207

Software Version : 6.1.2.0.1:D19
Sample Name : qc267746,95382,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 49

Date : 10/15/04 11:45:28 AM
Data Acquisition Time : 10/14/04 5:20:50 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a049p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.624	139733.32	15.2029	0.672	1	10.22
alpha-BHC	9.247	226991.98	15.8943	0.672	1	10.69
gamma-BHC	10.132	218771.64	16.8606	0.672	1	11.34
beta-BHC	10.403	109584.11	19.6246	0.672	1	13.20
delta-BHC	10.882	233132.53	18.0245	0.672	1	12.12
Heptachlor	11.434	173723.26	15.3841	0.672	1	10.35
Aldrin	12.233	187284.60	15.8478	0.672	1	10.66
Heptachlor epoxide	13.831	175811.44	16.0261	0.672	1	10.78
gamma-Chlordane	14.148	176710.15	15.9381	0.672	1	10.72
alpha-Chlordane	14.483	171327.00	16.0523	0.672	1	10.80
4,4'-DDE	14.701	162558.46	15.4278	0.672	1	10.38
Endosulfan I	14.829	168581.56	16.6449	0.672	1	11.19
Dieldrin	15.433	179088.63	16.4318	0.672	1	11.05
Endrin	16.011	138288.85	16.0103	0.672	1	10.77
4,4'-DDD	16.200	140102.15	16.1351	0.672	1	10.85
Endosulfan II	16.573	155961.00	16.7447	0.672	1	11.26
4,4'-DDT	16.887	122663.34	14.6851	0.672	1	9.88
Endrin aldehyde	17.621	85746.24	11.4873	0.672	1	7.73
Methoxychlor	18.100	60281.73	16.3723	0.672	1	11.01
Endosulfan sulfate	18.701	133089.84	16.0078	0.672	1	10.77
Endrin ketone	19.378	167963.55	16.2852	0.672	1	10.95
Decachlorobiphenyl	21.417	228645.76	35.2296	0.672	1	23.69
		3556041.14	372.3171			250.38

10/15/04

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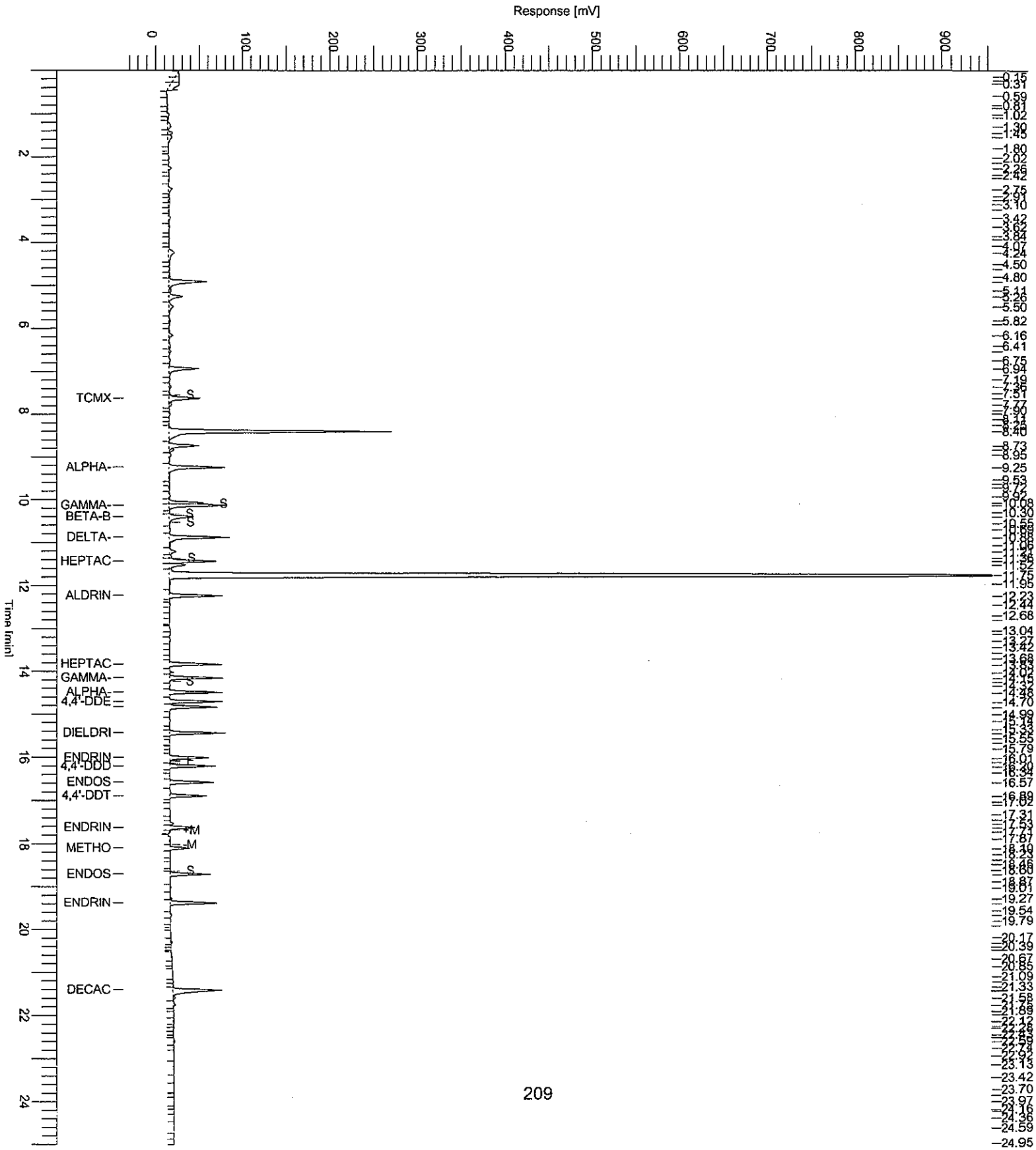
Report stored in ASCII file: G:\gc23\CHA\287a049p.TX0

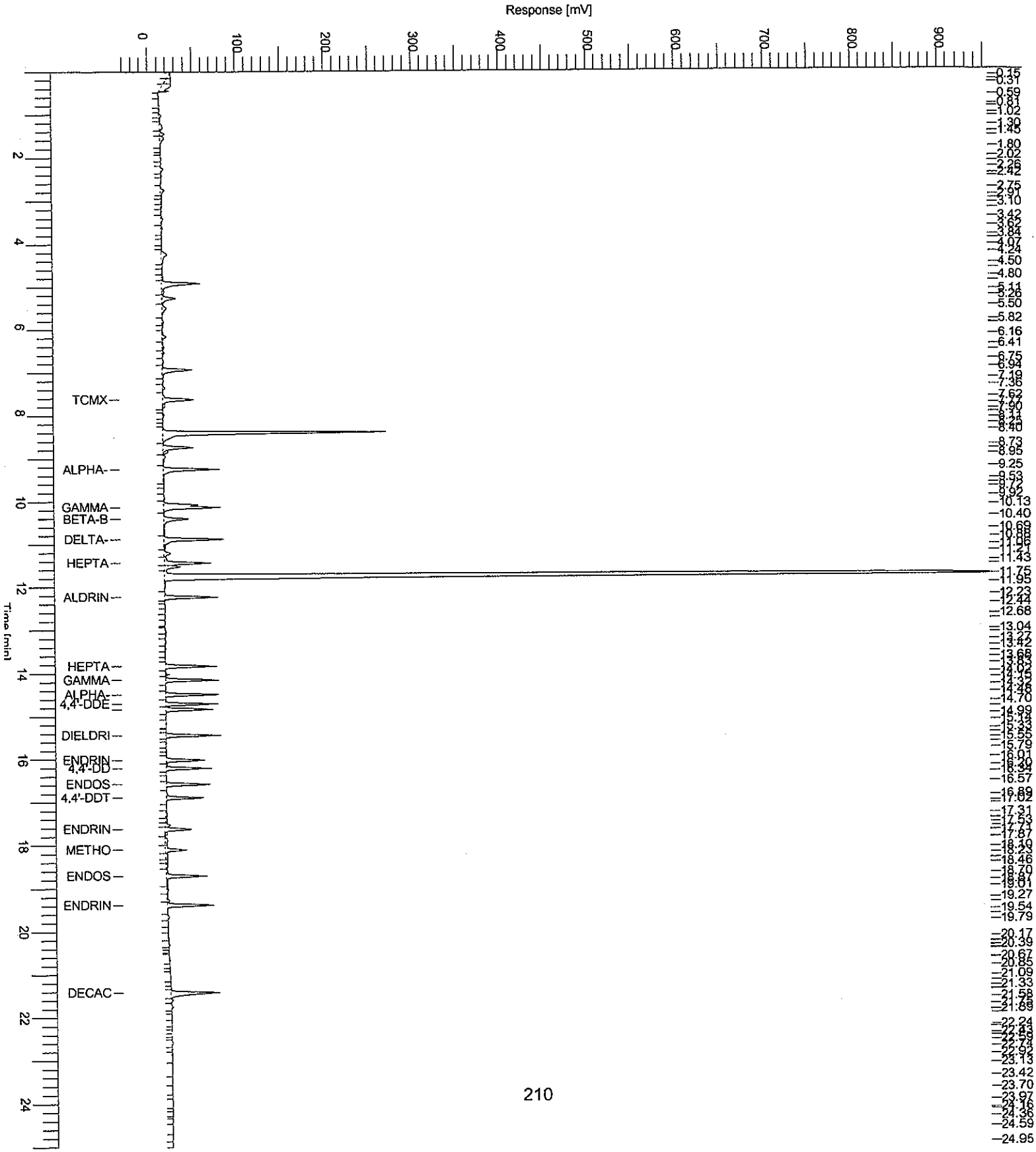
GC23 Rtx-CLPesticides

ample Name : qc267746,95382,ms Sample #: 95382 Page 1 of 1
ileName : G:\gc23\CHa\287a049.raw
ate : 10/15/04 11:45:34 AM
lethod : Time of Injection: 10/14/04 5:20:50 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -37.48 mV High Point : 955.42 mV
lot Offset: -37.48 mV Plot Scale: 992.9 mV



GC23 Rtx-CLPesticides

.mple Name : qc267746,95382,ms Sample #: 95382 Page 1 of 1
eName : G:\gc23\CHa\287a049.raw
ıte : 10/15/04 10:35:21 AM
ethod : gc23ins Time of Injection: 10/14/04 5:20:50 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -35.00 mV High Point : 955.42 mV
ale Factor: 1.0 Plot Offset: -35.00 mV Plot Scale: 990.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267746,95382,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 49

Date : 10/15/04 11:47:18 AM
Data Acquisition Time : 10/14/04 5:20:50 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b049p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.548	84275.24	12.3411	0.672	1	8.30
alpha-BHC	9.237	161486.66	15.8565	0.672	1	10.66
gamma-BHC	10.201	155363.82	16.8779	0.672	1	11.35
beta-BHC	10.423	68224.00	16.7662	0.672	1	11.28
delta-BHC	11.203	165304.70	18.2679	0.672	1	12.29
Heptachlor	11.365	105659.93	16.7423	0.672	1	11.26
Aldrin	12.198	147945.14	17.1175	0.672	1	11.51
Heptachlor epoxide	13.671	137273.00	17.1771	0.672	1	11.55
gamma-Chlordane	14.147	138644.47	16.8960	0.672	1	11.36
alpha-Chlordane	14.518	138269.00	17.3411	0.672	1	11.66
Endosulfan I	14.646	131728.50	17.5290	0.672	1	11.79
4,4'-DDE	14.983	132563.00	16.7402	0.672	1	11.26
Dieldrin	15.331	145231.46	17.9401	0.672	1	12.06
Endrin	16.080	122042.95	18.7530	0.672	1	12.61
4,4'-DDD	16.404	110734.33	17.1652	0.672	1	11.54
Endosulfan II	16.599	126726.43	18.0615	0.672	1	12.15
4,4'-DDT	17.178	96063.31	17.5199	0.672	1	11.78
Endrin aldehyde	17.437	67394.48	12.0467	0.672	1	8.10
Endosulfan sulfate	18.115	107123.30	17.0545	0.672	1	11.47
Methoxychlor	18.888	55025.91	21.7580	0.672	1	14.63
Endrin ketone	19.413	133713.89	17.8434	0.672	1	12.00
Decachlorobiphenyl	21.869	82037.52	17.3635	0.672	1	11.68
		2612831.04	375.1586			252.29

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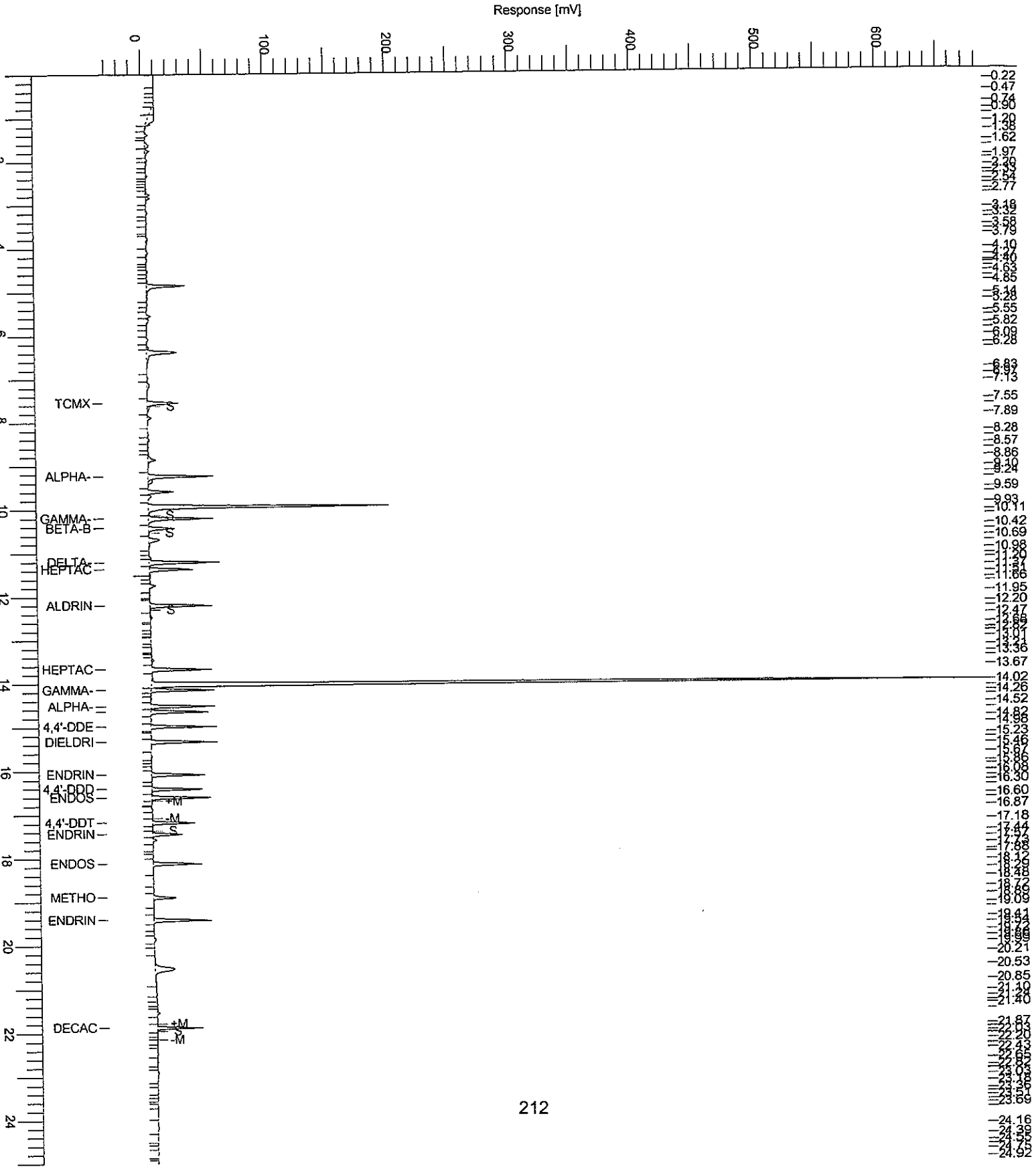
Report stored in ASCII file: G:\gc23\CHB\287b049p.TX0

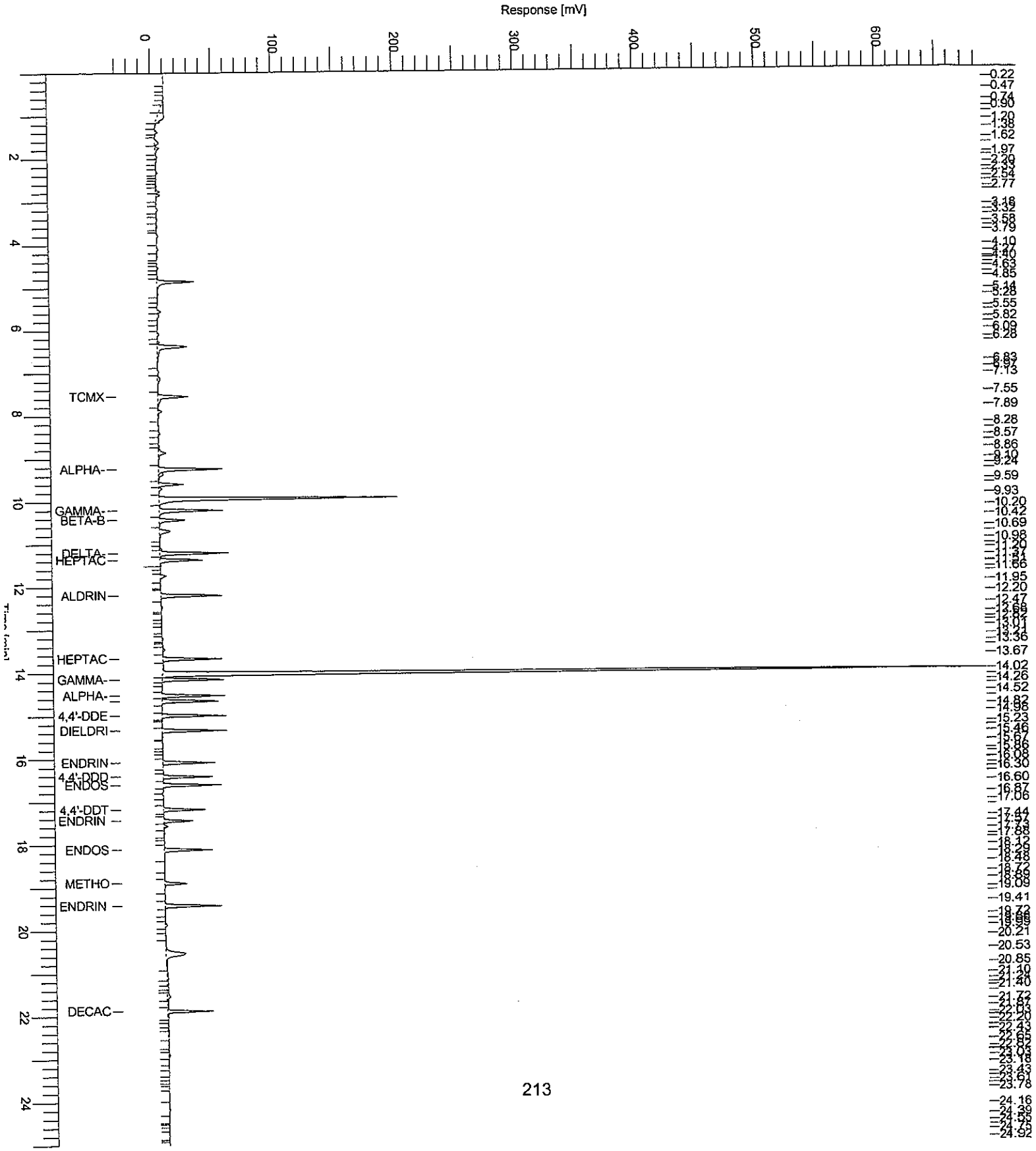
GC23 Rtx-CLPesticides2

ıple Name : qc267746,95382,ms Sample #: 95382 Page 1 of 1
Name : G:\gc23\CHb\287b049.raw
e : 10/15/04 11:47:23 AM
hod : Time of Injection: 10/14/04 5:20:50 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : -32.92 mV High Point : 686.90 mV
: Offset: -32.92 mV Plot Scale: 719.8 mV



GC23 Rtx-CLPesticides2

nple Name : qc267746,95382,ms Sample #: 95382 Page 1 of 1
Name : G:\gc23\CHb\287b049
e : 10/15/04 10:34:31 AM
lhod : gc23ins Time of Injection: 10/14/04 5:20:50 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : -31.13 mV High Point : 686.90 mV
ale Factor: 1.0 Plot Offset: -31.13 mV Plot Scale: 718.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267747,95382,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 50

Date : 10/15/04 11:50:55 AM
Data Acquisition Time : 10/14/04 5:51:27 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a050p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.623	188757.63	20.5367	0.657	1	13.49
alpha-BHC	9.247	286605.47	20.0686	0.657	1	13.19
gamma-BHC	10.132	276422.73	21.3038	0.657	1	14.00
beta-BHC	10.403	141663.23	25.3694	0.657	1	16.67
delta-BHC	10.881	285015.75	22.0358	0.657	1	14.48
Heptachlor	11.434	239362.48	21.1968	0.657	1	13.93
Aldrin	12.233	230300.29	19.4877	0.657	1	12.80
Heptachlor epoxide	13.831	211925.64	19.3181	0.657	1	12.69
gamma-Chlordane	14.148	212382.61	19.1555	0.657	1	12.59
alpha-Chlordane	14.484	207313.56	19.4240	0.657	1	12.76
4,4'-DDE	14.701	199748.00	18.9573	0.657	1	12.46
Endosulfan I	14.829	198598.50	19.6086	0.657	1	12.88
Dieldrin	15.433	216473.43	19.8619	0.657	1	13.05
Endrin	16.011	172443.95	19.9645	0.657	1	13.12
4,4'-DDD	16.201	172545.05	19.8715	0.657	1	13.06
Endosulfan II	16.577	188264.50	20.2130	0.657	1	13.28
4,4'-DDT	16.887	151629.49	18.1529	0.657	1	11.93
Endrin aldehyde	17.621	123246.55	16.5111	0.657	1	10.85
Methoxychlor	18.100	76992.60	20.9109	0.657	1	13.74
Endosulfan sulfate	18.701	164593.21	19.7970	0.657	1	13.01
Endrin ketone	19.378	205996.12	19.9727	0.657	1	13.12
Decachlorobiphenyl	21.403	121268.80	18.6850	0.657	1	12.28
		4271549.60	440.4027			289.36

GP
10/15/04

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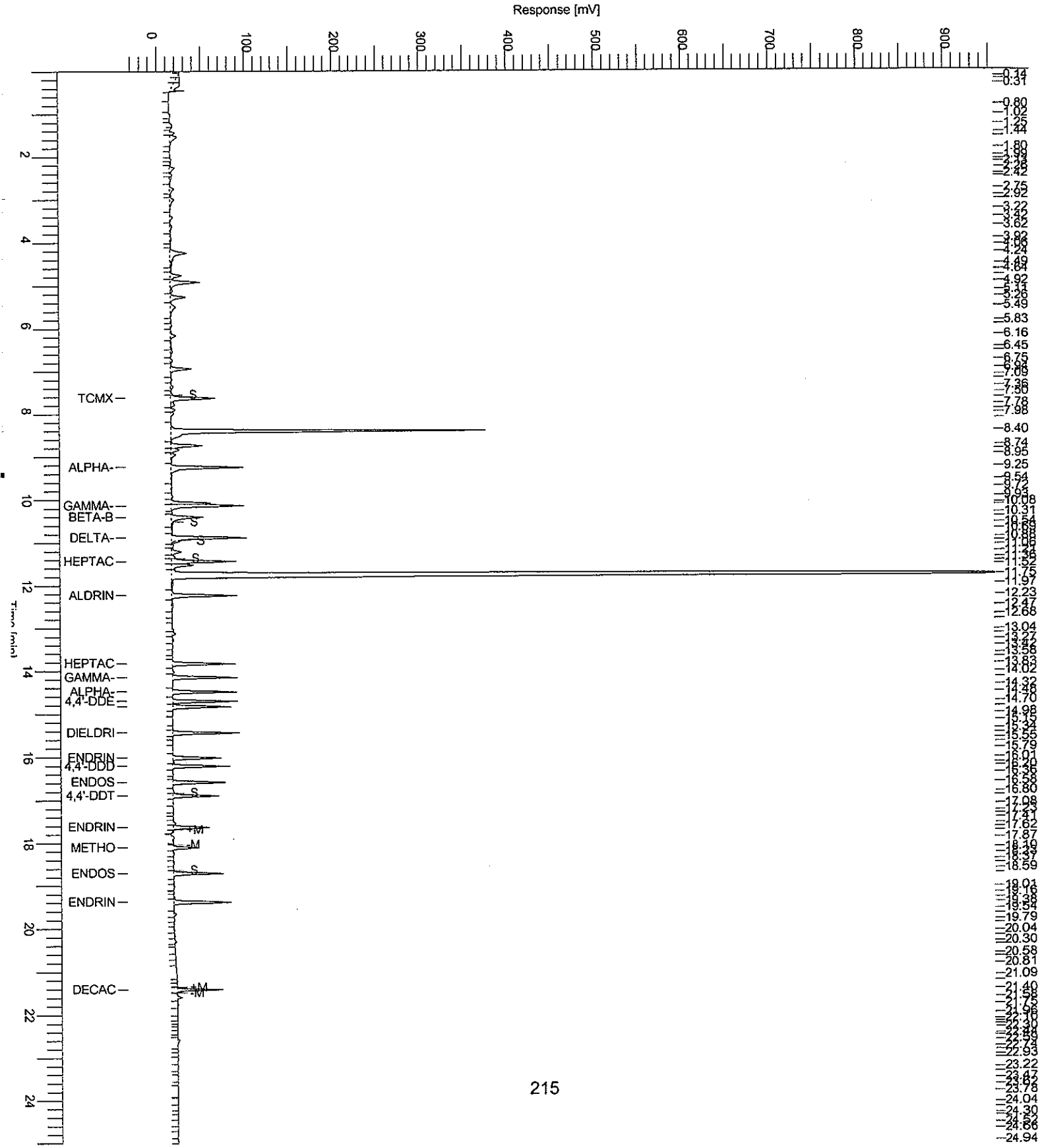
Report stored in ASCII file: G:\gc23\CHA\287a050p.TX0

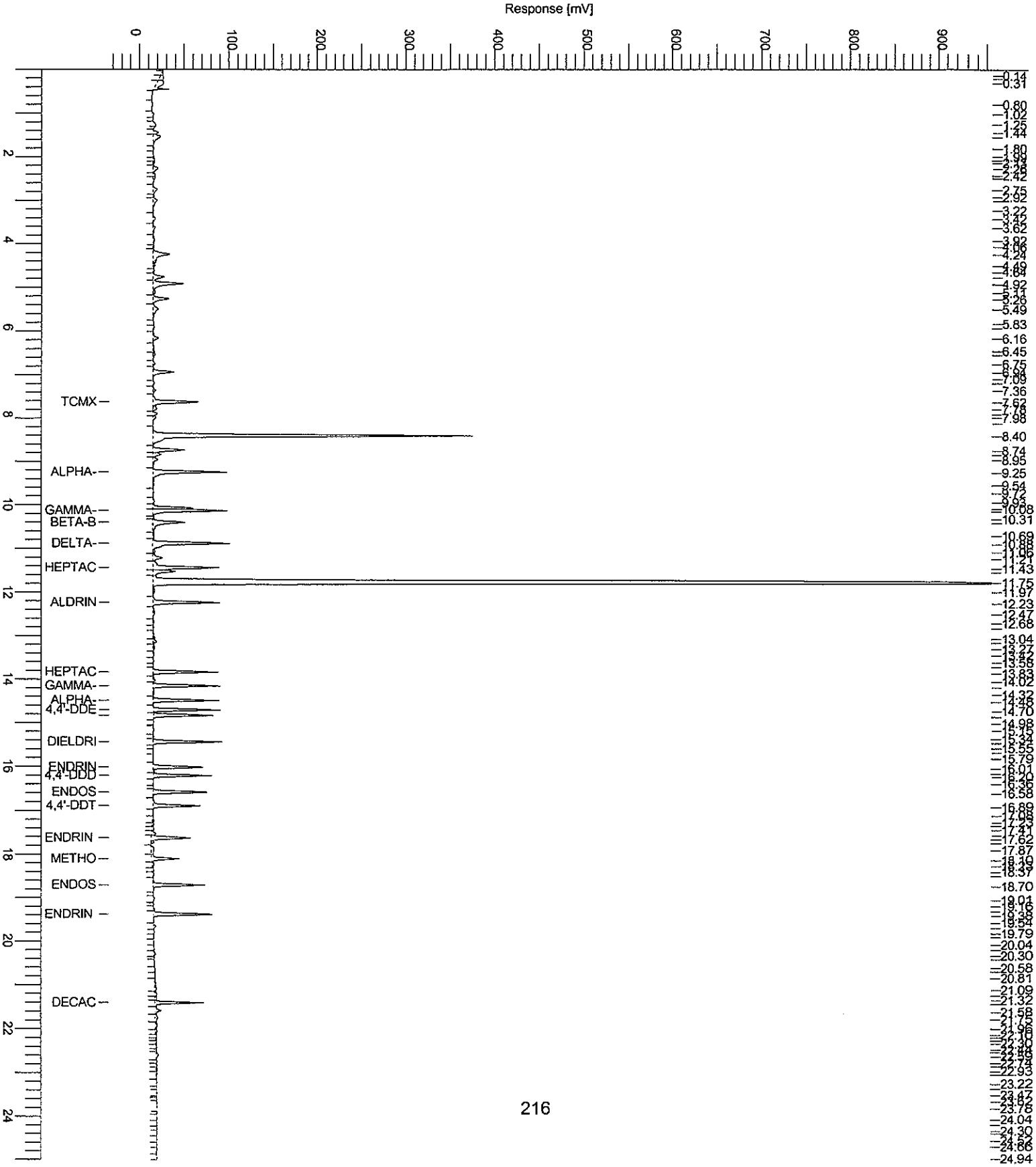
GC23 Rtx-CLPesticides

mple Name : qc267747,95382,msd Sample #: 95382 Page 1 of 1
eName : G:\gc23\CHa\287a050.raw
ıte : 10/15/04 11:51:00 AM
ethod : Time of Injection: 10/14/04 5:51:27 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -37.02 mV High Point : 956.28 mV
ot Offset: -37.02 mV Plot Scale: 993.3 mV



GC23 Rtx-CLPesticides

ımple Name : qc267747,95382,msd Sample #: 95382 Page 1 of 1
eName : G:\gc23\CHa\287a050.raw
ıte : 10/15/04 10:35:26 AM
ethod : gc23ins Time of Injection: 10/14/04 5:51:27 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -34.54 mV High Point : 956.28 mV
cale Factor: 1.0 Plot Offset: -34.54 mV Plot Scale: 990.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc267747,95382,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 50

Date : 10/15/04 11:49:17 AM
Data Acquisition Time : 10/14/04 5:51:27 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b050p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

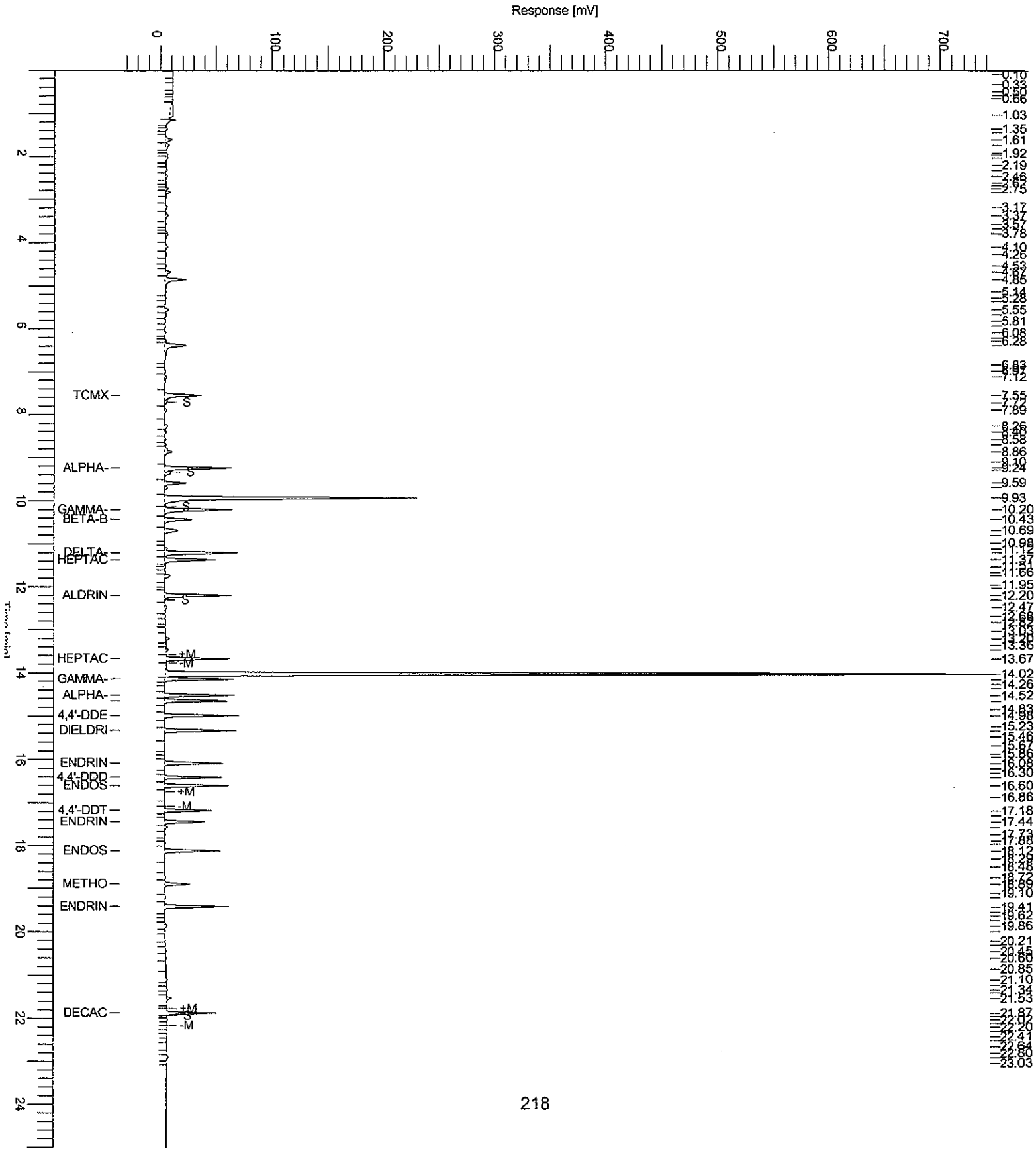
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.548	120056.56	17.5809	0.657	1	11.55
alpha-BHC	9.238	194774.86	19.1251	0.657	1	12.57
gamma-BHC	10.202	189154.08	20.5487	0.657	1	13.50
beta-BHC	10.429	84802.50	20.8404	0.657	1	13.69
delta-BHC	11.204	199786.88	22.0786	0.657	1	14.51
Heptachlor	11.366	140886.54	22.3241	0.657	1	14.67
Aldrin	12.199	177241.69	20.5072	0.657	1	13.47
Heptachlor epoxide	13.672	163911.91	20.5104	0.657	1	13.48
gamma-Chlordane	14.148	165960.87	20.2249	0.657	1	13.29
alpha-Chlordane	14.518	165697.00	20.7810	0.657	1	13.65
Endosulfan I	14.647	158185.50	21.0497	0.657	1	13.83
4,4'-DDE	14.983	166073.00	20.9719	0.657	1	13.78
Dieldrin	15.331	174542.62	21.5609	0.657	1	14.17
Endrin	16.080	145779.33	22.4003	0.657	1	14.72
4,4'-DDD	16.404	138216.73	21.4254	0.657	1	14.08
Endosulfan II	16.599	152466.95	21.7302	0.657	1	14.28
4,4'-DDT	17.178	117209.52	21.3765	0.657	1	14.04
Endrin aldehyde	17.437	99420.24	17.7712	0.657	1	11.68
Endosulfan sulfate	18.115	133053.49	21.1827	0.657	1	13.92
Methoxychlor	18.888	63687.68	25.1829	0.657	1	16.55
Endrin ketone	19.413	162410.66	21.6728	0.657	1	14.24
Decachlorobiphenyl	21.868	97571.97	20.6514	0.657	1	13.57
		3210890.57	461.4970			303.22

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\287b050p.TX0

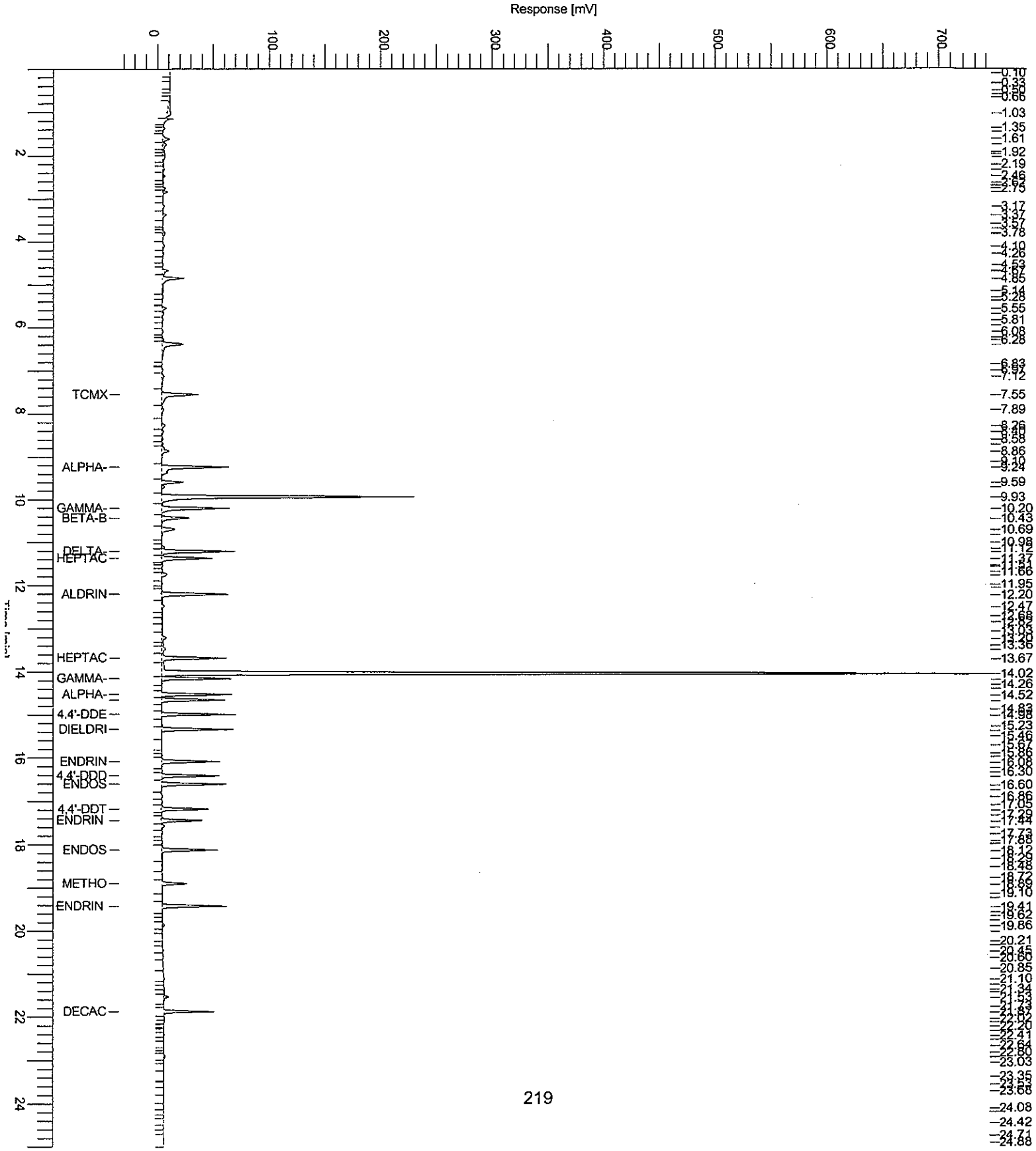
GC23 Rtx-CLPesticides2

ample Name : qc267747,95382,msd Sample #: 95382 Page 1 of 1
ileName : G:\gc23\CHb\287b050.raw
ate : 10/15/04 11:49:23 AM
lethod : Time of Injection: 10/14/04 5:51:27 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -35.66 mV High Point : 744.67 mV
lot Offset: -35.66 mV Plot Scale: 780.3 mV



GC23 Rtx-CLPesticides2

ample Name : qc267747,95382,msd Sample #: 95382 Page 1 of 1
leName : G:\gc23\CHb\287b050
ate : 10/15/04 10:34:36 AM
ethod : gc23ins Time of Injection: 10/14/04 5:51:27 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -33.71 mV High Point : 744.67 mV
cale Factor: 1.0 Plot Offset: -33.71 mV Plot Scale: 778.4 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23
Seqnum : 804414114046
Filename : 287_046
IDF : 1.0

Samplenum: 175066-003
Matrix : Soil
Batchnum : 95382

Cident : MLSE 31 (2)/ MS/MS
Acctnum : URSF (PVF)
Injected : 14-OCT-2004 15:49
Units : ug/Kg

Prep: 14.99 g --(2.0X CDF)--> 5.0 ml = 0.6671 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B-287_041	Flags
alpha-BHC	B	804412857001	ND					1.7		
beta-BHC	B	804412857001	ND					1.7		
gamma-BHC.....	B	804412857001	1.0 J		ND			1.7		C x
delta-BHC	B	804412857001	ND					1.7		
Heptachlor	B	804412857001	ND					1.7		
Aldrin	B	804412857001	ND					1.7		
Heptachlor epoxide	B	804412857001	ND					1.7		
Endosulfan I	B	804412857001	ND					1.7		
Dieldrin	B	804412857001	ND					3.3		
4,4'-DDE	B	804412857001	ND					3.3		
Endrin	B	804412857001	ND					3.3		
Endosulfan II	B	804412857001	ND					3.3		
Endosulfan sulfate	B	804412857001	ND					3.3		
4,4'-DDD	B	804412857001	ND					3.3		
Endrin aldehyde	B	804412857001	ND					3.3		
4,4'-DDT	B	804412857001	ND					3.3		
alpha-Chlordane	B	804412857001	ND					1.7		
gamma-Chlordane	B	804412857001	ND					1.7		
Methoxychlor	B	804412857001	ND					17		
Toxaphene	A		ND					60		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	804412857001	13.34	9.477	71	41-137	
Decachlorobiphenyl	B	804412857001	13.34	9.526	71	42-160	

C=RPD between columns exceeds 40% x=false positive

Analyst: Cl Date: 10/15/04 Reviewer: _____ Date: _____

Software Version : 6.1.2.0.1:D19
Sample Name : 175066-003,95382,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 46

Date : 10/15/04 11:42:00 AM
Data Acquisition Time : 10/14/04 3:49:23 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a046p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.623	156913.53	17.0721	0.667	1	11.39
alpha-BHC	9.238	0.00	0.0000	0.667	1	0.00
gamma-BHC	10.132	0.00	0.0000	0.667	1	0.00
beta-BHC	10.439	25166.32	4.5068	0.667	1	3.01
delta-BHC	10.874	2171.16	0.1679	0.667	1	0.11
Heptachlor	11.430	0.00	0.0000	0.667	1	0.00
Aldrin	12.227	0.00	0.0000	0.667	1	0.00
Heptachlor epoxide	13.842	3049.85	0.2780	0.667	1	0.19
gamma-Chlordane	14.144	3183.26	0.2871	0.667	1	0.19
alpha-Chlordane	14.445	933.38	0.0875	0.667	1	0.06
4,4'-DDE	14.694	2455.32	0.2330	0.667	1	0.16
Endosulfan I	14.836	5033.78	0.4970	0.667	1	0.33
Dieldrin	15.416	2549.17	0.2339	0.667	1	0.16
Endrin	16.002	0.00	0.0000	0.667	1	0.00
4,4'-DDD	16.203	1694.23	0.1951	0.667	1	0.13
Endosulfan II	16.605	1591.49	0.1709	0.667	1	0.11
4,4'-DDT	16.908	1081.00	0.1294	0.667	1	0.09
Endrin aldehyde	17.614	1329.00	0.1780	0.667	1	0.12
Methoxychlor	18.097	2024.26	0.5498	0.667	1	0.37
Endosulfan sulfate	18.735	2490.38	0.2995	0.667	1	0.20
Endrin ketone	19.369	0.00	0.0000	0.667	1	0.00
Decachlorobiphenyl	21.403	107249.00	16.5248	0.667	1	11.02
		318915.14	41.4109			27.63

AL
10/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\287a046p.TX0

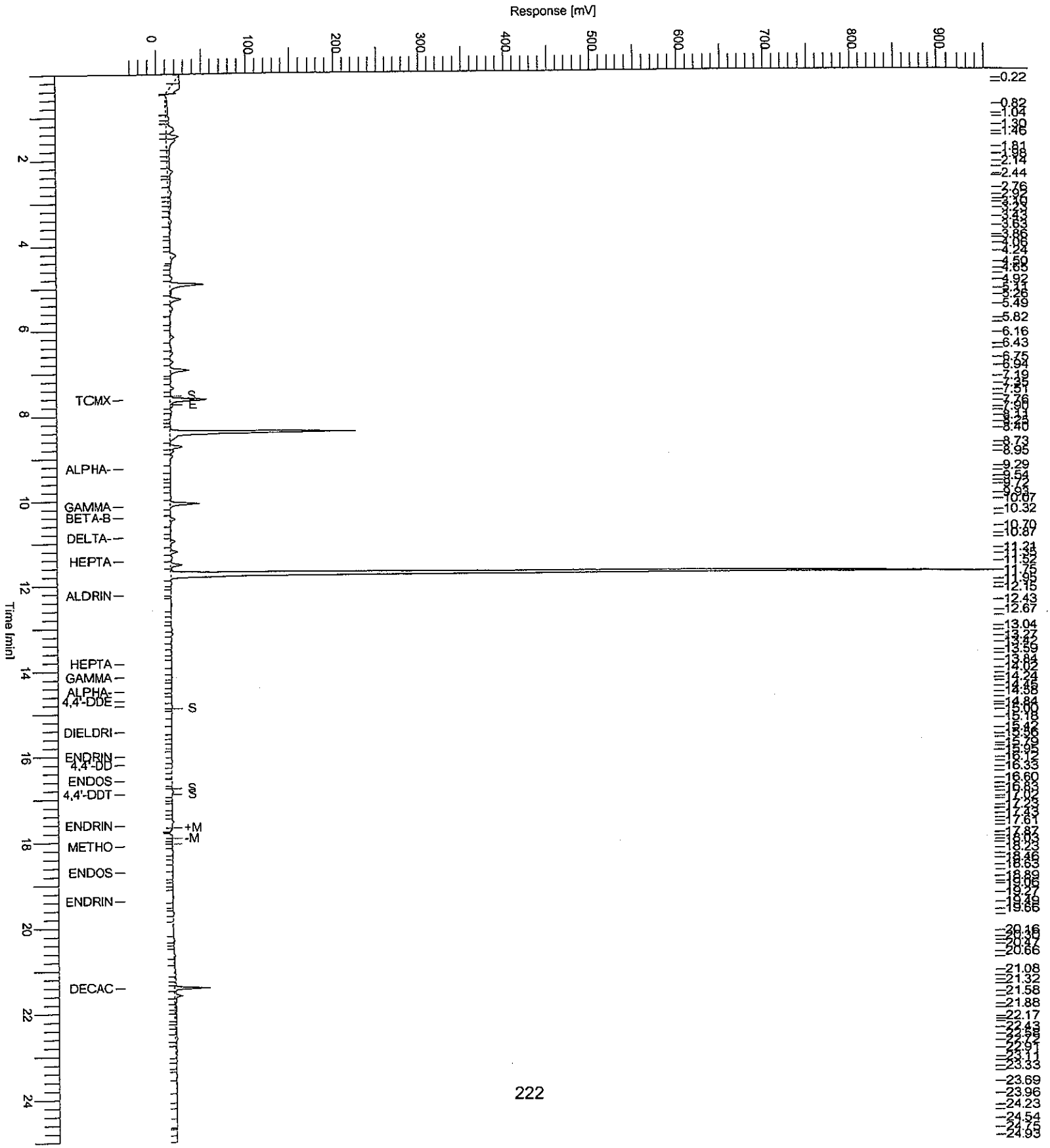
GC23 Rtx-CLPesticides

ımple Name : 175066-003,95382,mss
eName : G:\gc23\CHa\287a046.raw
ate : 10/15/04 11:42:06 AM
ethod :
art Time : 0.00 min
ot Offset: -39.68 mV

Sample #: 95382

Page 1 of 1

Time of Injection: 10/14/04 3:49:23 PM
End Time : 25.00 min
Low Point : -39.68 mV
High Point : 958.60 mV
Plot Scale: 998.3 mV

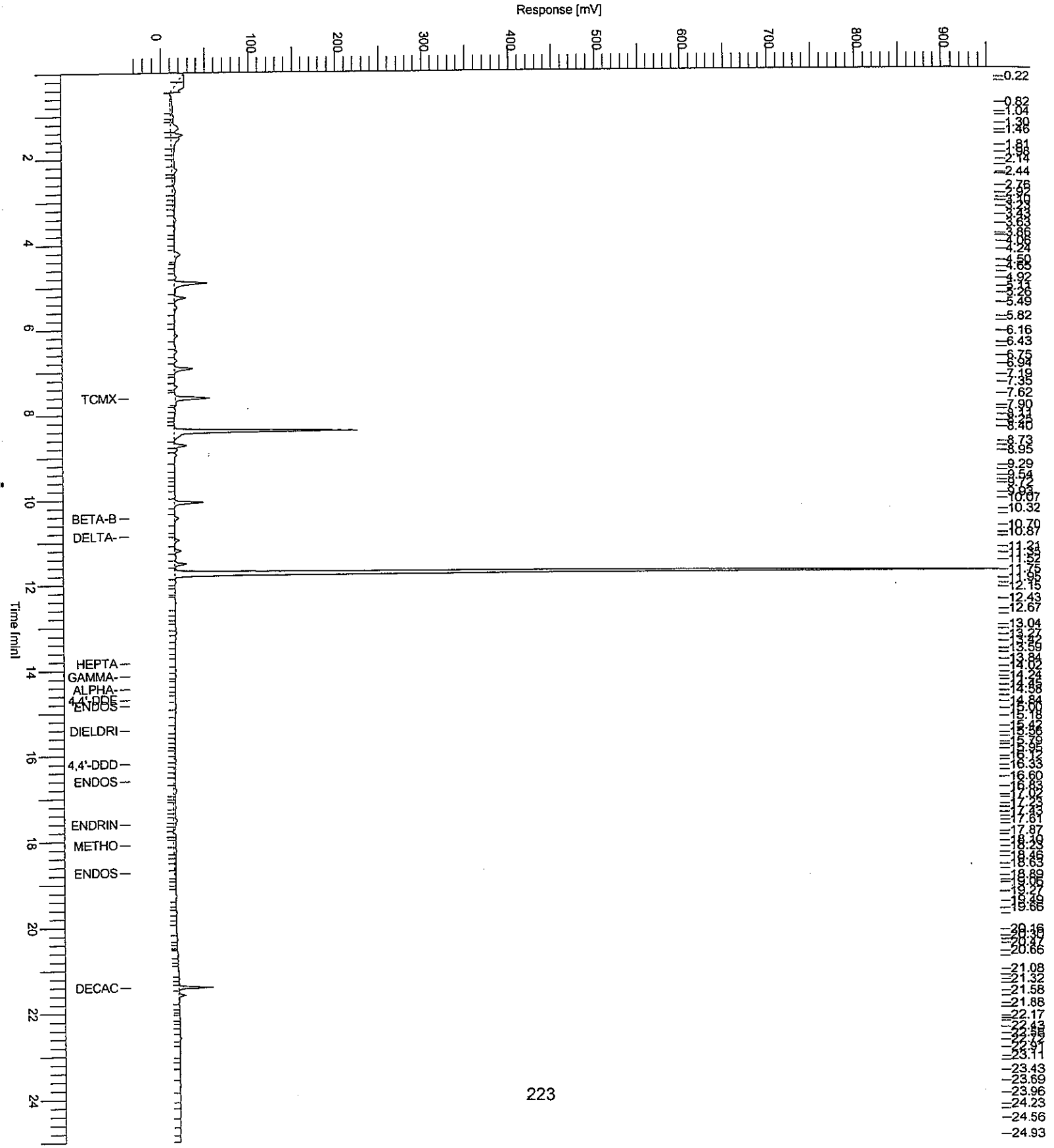


GC23 Rtx-CLPesticides

ımple Name : 175066-003,95382,mss
eName : G:\gc23\CHa\287a046.raw
ate : 10/15/04 10:35:07 AM
ethod : gc23ins
art Time : 0.00 min
cale Factor: 1.0

Sample #: 95382

Time of Injection: 10/14/04 3:49:23 PM
End Time : 25.00 min
Low Point : -37.18 mV
High Point : 958.60 mV
Plot Offset: -37.18 mV
Plot Scale: 995.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 175066-003,95382,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 46

Date : 10/15/04 11:37:19 AM
Data Acquisition Time : 10/14/04 3:49:23 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b046p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.549	97010.00	14.2060	0.667	1	9.48
alpha-BHC	9.235	0.00	0.0000	0.667	1	0.00
gamma-BHC	10.157	14056.00	1.5270	0.667	1	1.02
beta-BHC	10.421	0.00	0.0000	0.667	1	0.00
delta-BHC	11.201	0.00	0.0000	0.667	1	0.00
Heptachlor	11.320	1067.98	0.1692	0.667	1	0.11
Aldrin	12.150	1589.64	0.1839	0.667	1	0.12
Heptachlor epoxide	13.672	1521.28	0.1904	0.667	1	0.13
gamma-Chlordane	14.143	0.00	0.0000	0.667	1	0.00
alpha-Chlordane	14.508	430.00	0.0539	0.667	1	0.04
Endosulfan I	14.682	499.61	0.0665	0.667	1	0.04
4,4'-DDE	15.001	1222.62	0.1544	0.667	1	0.10
Dieldrin	15.308	1017.31	0.1257	0.667	1	0.08
Endrin	16.077	946.96	0.1455	0.667	1	0.10
4,4'-DDD	16.420	206.88	0.0321	0.667	1	0.02
Endosulfan II	16.631	1083.16	0.1544	0.667	1	0.10
4,4'-DDT	17.130	119.00	0.0217	0.667	1	0.01
Endrin aldehyde	17.430	446.07	0.0797	0.667	1	0.05
Endosulfan sulfate	18.121	1741.48	0.2773	0.667	1	0.18
Methoxychlor	18.871	1436.04	0.5678	0.667	1	0.38
Endrin ketone	19.409	0.00	0.0000	0.667	1	0.00
Decachlorobiphenyl	21.868	67464.10	14.2790	0.667	1	9.53
		191858.11	32.2344			21.50

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Report stored in ASCII file: G:\gc23\CHB\287b046p.TX0

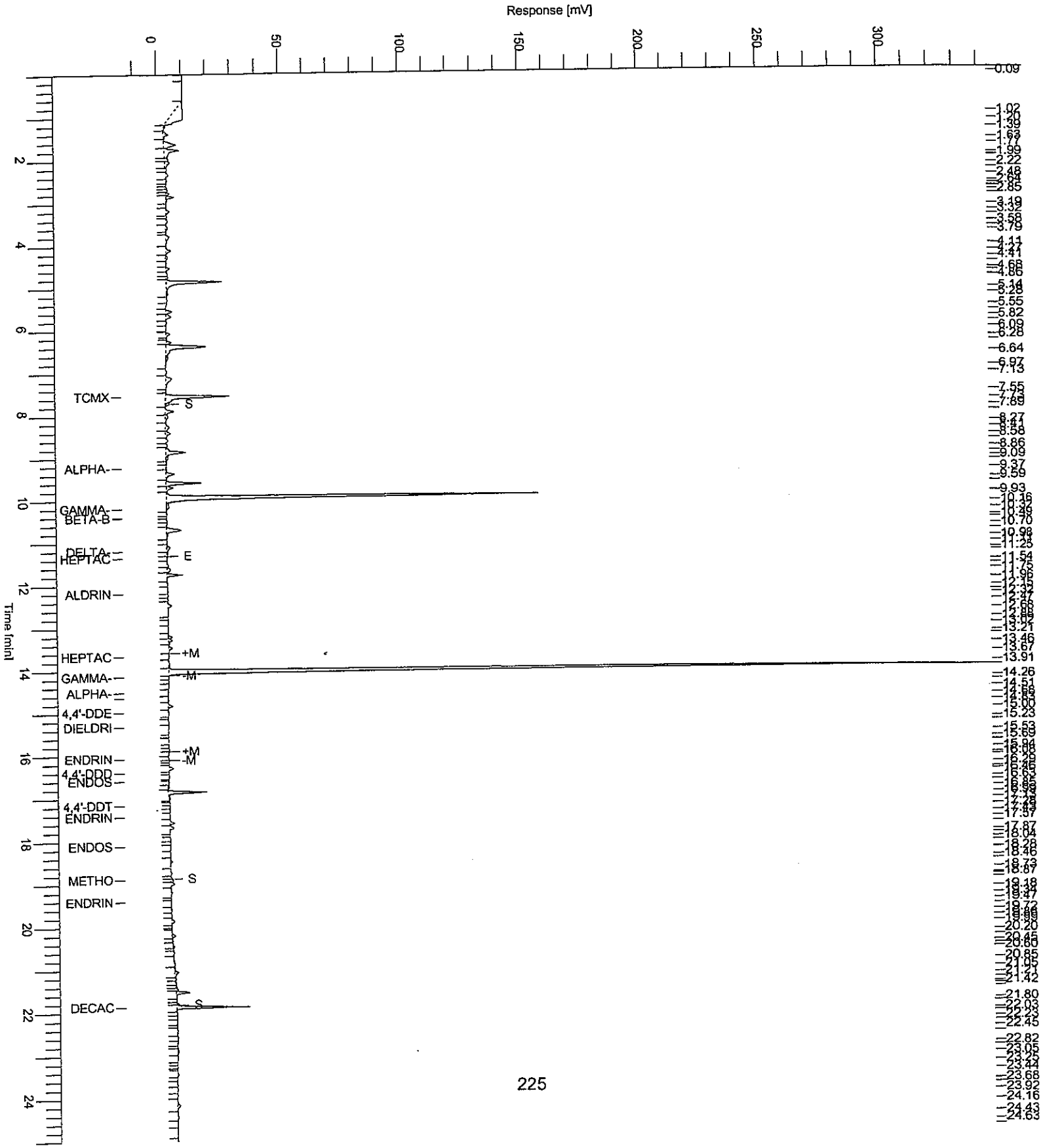
GC23 Rtx-CLPesticides2

ımple Name : 175066-003,95382,mss
eName : G:\gc23\CHb\287b046.raw
ıte : 10/15/04 11:37:26 AM
ethod :
art Time : 0.00 min
ot Offset: -15.30 mV

Sample #: 95382

Page 1 of 1

Time of Injection: 10/14/04 3:49:23 PM
End Time : 25.00 min
Low Point : -15.30 mV
High Point : 344.09 mV
Plot Scale: 359.4 mV

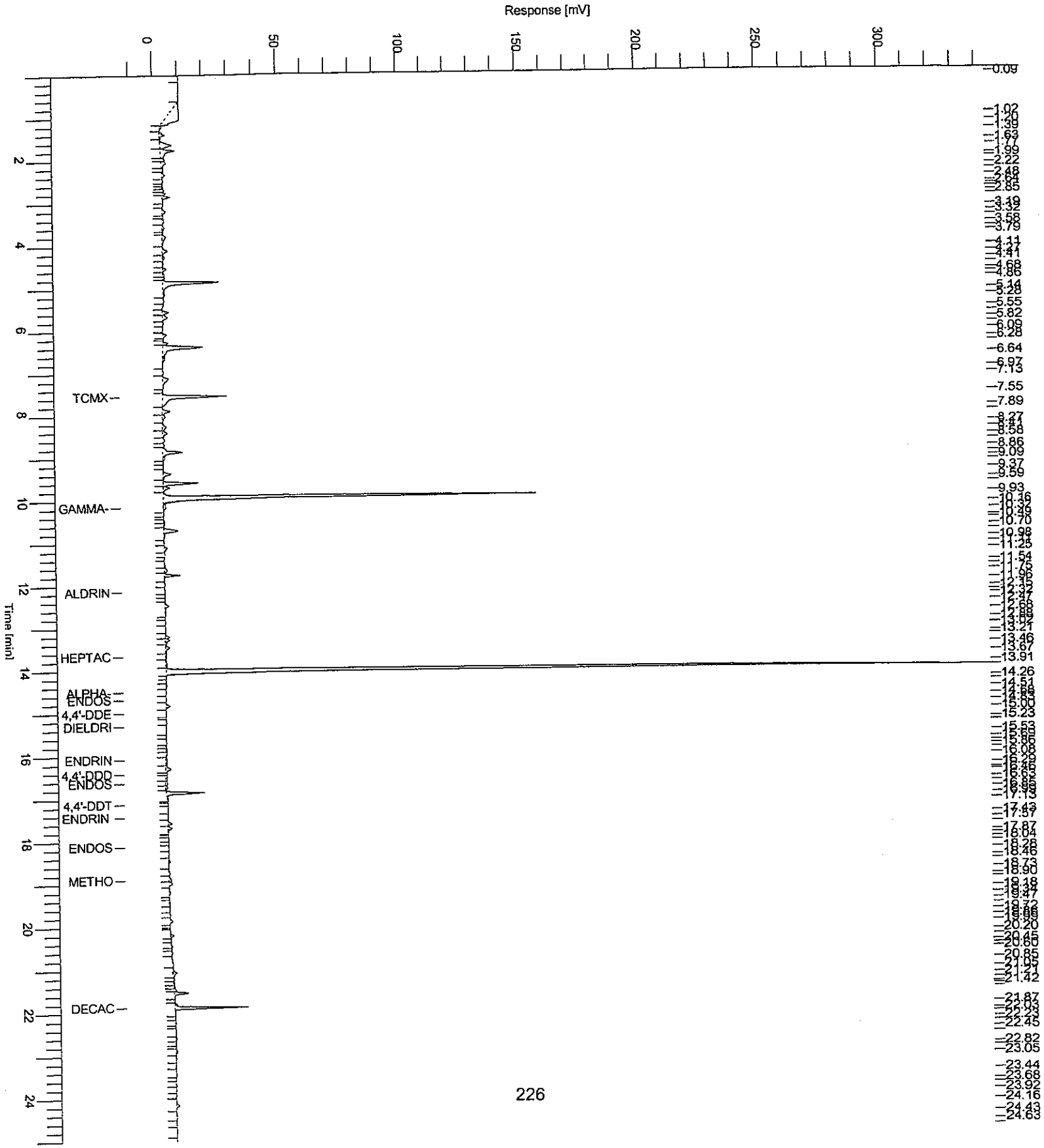


GC23 Rtx-CLPesticides2

mple Name : 175066-003,95382,mss
eName : G:\gc23\CHb\287b046
te : 10/15/04 10:34:15 AM
thod : gc23ins
art Time : 0.00 min End Time : 25.00 min
ale Factor: 1.0 Plot Offset: -14.40 mV

Sample #: 95382 Page 1 of 1

Time of Injection: 10/14/04 3:49:23 PM
Low Point : -14.40 mV High Point : 344.09 mV
Plot Scale: 358.5 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: [illegible] 10/6/04
Calnum: 234402633001 Name: 8081 Type: (normal) Date: 05-OCT-2004 23:14 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	279_016	234402633016	pest_1	05-OCT-2004 23:14	04WS1628
2	279_017	234402633017	pest_2	05-OCT-2004 23:45	04WS1629
3	279_018	234402633018	pest_3	06-OCT-2004 00:15	04WS1630
4	279_019	234402633019	pest_4	06-OCT-2004 00:45	04WS1632
5	279_020	234402633020	pest_5	06-OCT-2004 01:15	04WS1633
6	279_021	234402633021	pest_6	06-OCT-2004 01:45	04WS1634
7	279_022	234402633022	pest_7	06-OCT-2004 02:16	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	6499.4	7202.9	7231.6	8963.2	10009	11704	11710	AVRG	R		1.106E-4		pg	9045.7	24	0.995	20	rsd ***
gamma-BHC	A	6665.7	7392.6	7293.8	8780.7	9662.7	11031	10683	AVRG	R		1.138E-4		pg	8787.2	20	0.995	20	
beta-BHC	A	5153.8	4973.5	4389.2	4778.8	5062.3	5551.5	5197.8	AVRG	R		1.994E-4		pg	5015.3	7	0.995	20	
delta-BHC	A	7111.0	7077.9	6567.6	7979.9	8823.3	10654	10245	AVRG	R		1.197E-4		pg	8351.3	19	0.995	20	
Heptachlor	A	7533.5	7954.3	7269.5	7971.5	8592.0	9322.9	8607.0	AVRG	R		1.223E-4		pg	8178.7	9	0.995	20	
Aldrin	A	7540.2	7842.3	7229.4	8090.7	8735.9	9766.9	9101.6	AVRG	R		1.201E-4		pg	8329.6	11	0.995	20	
Heptachlor epoxide	A	9035.7	9110.8	8127.9	8579.5	8925.5	9450.2	8306.1	AVRG	R		1.138E-4		pg	8790.8	5	0.995	20	
gamma-Chlordane	A	8993.3	9107.1	8150.5	8768.4	9232.2	10138	9117.7	AVRG	R		1.102E-4		pg	9072.4	7	0.995	20	
alpha-Chlordane	A	9033.2	9224.5	8275.4	8852.8	9266.9	10042	8946.2	AVRG	R		1.100E-4		pg	9091.5	6	0.995	20	
4,4'-DDE	A	6910.3	7564.3	7030.2	7884.8	8337.6	9071.5	7892.8	AVRG	R		1.280E-4		pg	7813.1	10	0.995	20	
Endosulfan I	A	9481.1	9608.2	8628.3	9140.5	9404.5	10447	9237.5	AVRG	R		1.061E-4		pg	9421.0	6	0.995	20	
Dieldrin	A	7789.0	8374.1	7679.4	8277.7	8570.2	9039.0	7766.2	AVRG	R		1.217E-4		pg	8213.7	6	0.995	20	
Endrin	A	6795.9	7261.5	6494.9	7010.7	7281.5	7696.4	6513.1	AVRG	R		1.427E-4		pg	7007.7	6	0.995	20	
4,4'-DDD	A	5086.7	5471.2	5086.8	5941.8	6166.9	6980.8	6111.3	AVRG	R		1.714E-4		pg	5835.1	12	0.995	20	
Endosulfan II	A	7930.7	8276.0	7359.9	7744.1	7934.6	8312.6	7058.1	AVRG	R		1.282E-4		pg	7802.3	6	0.995	20	
4,4'-DDT	A	2621.9	3385.7	3448.4	4510.2	5023.8	6283.8	5805.2	AVRG	R		2.252E-4		pg	4439.8	31	0.995	20	rsd ***
Endrin aldehyde	A	7858.2	7318.6	6408.9	6399.4	6550.1	6789.6	5809.8	AVRG	R		1.485E-4		pg	6733.5	10	0.995	20	
Methoxychlor	A	2264.8	2547.8	2251.0	2284.6	2322.8	2417.2	2088.6	AVRG	R		4.327E-4		pg	2311.0	6	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By:
Calnum: 234402633001 Name: 8081 Type: (normal) Date: 05-OCT-2004 23:14 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endosulfan sulfate	A	7927.1	7681.7	6722.6	6887.1	7019.4	7282.0	6172.6	AVRG	R		1.409E-4		pg	7098.9	8	0.995	20	
Endrin ketone	A	7565.8	8094.4	7454.8	7861.7	7997.9	8272.2	6989.0	AVRG	R		1.291E-4		pg	7748.0	6	0.995	20	
TCMX	A	8204.2	8515.7	7918.7	8145.1	8532.0	8634.4	8150.6	AVRG	R		1.205E-4		pg	8300.1	3	0.995	20	
Decachlorobiphenyl	A	10154	9678.0	8147.9	7582.8	7594.9	7423.2	6223.9	AVRG	R		1.232E-4		pg	8115.0	17	0.995	20	
alpha-BHC	B	33792	36134	33861	35802	37992	39576	36059	AVRG	R		2.764E-5		pg	36174	6	0.995	20	
gamma-BHC	B	33009	34347	31250	32694	34214	35511	32658	AVRG	R		2.996E-5		pg	33383	4	0.995	20	
beta-BHC	B	23482	20756	17189	16666	16980	16966	15158	AVRG	R		5.503E-5		pg	18171	16	0.995	20	
delta-BHC	B	38695	36412	31723	33305	34597	36401	32149	AVRG	R		2.877E-5		pg	34755	7	0.995	20	
Heptachlor	B	23821	23529	20480	21151	22260	23189	21275	AVRG	R		4.496E-5		pg	22243	6	0.995	20	
Aldrin	B	32953	33350	29675	30372	31603	32404	28934	AVRG	R		3.192E-5		pg	31327	5	0.995	20	
Heptachlor epoxide	B	35189	34040	28802	28093	28452	28469	24534	AVRG	R		3.372E-5		pg	29654	12	0.995	20	
gamma-Chlordane	B	36651	35380	30338	30396	31192	32459	28632	AVRG	R		3.110E-5		pg	32150	9	0.995	20	
alpha-Chlordane	B	36552	35386	30105	29847	30187	31488	27772	AVRG	R		3.163E-5		pg	31620	10	0.995	20	
4,4'-DDE	B	27976	29947	26330	27071	27740	28515	18732	AVRG	R		3.757E-5		pg	26616	14	0.995	20	
Endosulfan I	B	33016	31989	27140	26828	27197	27497	23518	AVRG	R		3.550E-5		pg	28169	12	0.995	20	
Dieldrin	B	31198	31434	27173	26938	27276	27468	18909	AVRG	R		3.677E-5		pg	27199	15	0.995	20	
Endrin	B	25952	26063	21955	21936	22341	22952	17519	AVRG	R		4.410E-5		pg	22674	13	0.995	20	
4,4'-DDD	B	19831	21349	18495	18823	19116	20131	15981	AVRG	R		5.235E-5		pg	19104	9	0.995	20	
Endosulfan II	B	31093	29508	24394	23142	23227	23376	17645	AVRG	R		4.061E-5		pg	24627	18	0.995	20	
4,4'-DDT	B	12625	14007	12719	14139	14944	17175	14819	AVRG	R		6.970E-5		pg	14347	11	0.995	20	
Endrin aldehyde	B	25414	22979	18811	18042	18123	18279	15417	AVRG	R		5.107E-5		pg	19581	17	0.995	20	
Methoxychlor	B	6997.2	6803.9	5688.1	5741.0	5854.2	6023.2		AVRG	R		1.617E-4		pg	6184.6	9	0.995	20	
Endosulfan sulfate	B	29253	26435	21484	20696	20769	20940	16696	AVRG	R		4.479E-5		pg	22325	19	0.995	20	
Endrin ketone	B	28313	27081	22718	22271	22293	22654	17693	AVRG	R		4.294E-5		pg	23289	15	0.995	20	
TCMX	B	30444	28948	25189	24308	25110	24471	21825	AVRG	R		3.883E-5		pg	25756	11	0.995	20	
Decachlorobiphenyl	B	24743	21933	17967	16695	16644	16833	14658	AVRG	R		5.407E-5		pg	18496	19	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	11	20	
EPA 8081A	B	22	12	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234402633014 Run Name: Injected: 05-OCT-2004 22:14
Filename: 279_014 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	363830.37
Endrin aldehyde	A	6045.56
Endrin ketone	A	14446.81

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	547615.78
4,4'-DDE	A	2431.73
4,4'-DDD	A	18401.91

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1116267.07
Endrin aldehyde	B	23854.87
Endrin ketone	B	51996.06

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1494996.64
4,4'-DDE	B	12339.1
4,4'-DDD	B	84883.9

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

SOO 10/6/04

Page 1 of 1

Cmcm 10/6/04

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC16
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 10/6/04 11:14:30 AM
Data Acquisition Time : 10/5/04 10:14:21 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a014p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.899	0.00	0.0000	1.000	1	0.00
alpha-BHC	8.417	76864.79	9.3815	1.000	1	9.38
gamma-BHC	9.272	78846.45	9.6053	1.000	1	9.61
beta-BHC	9.538	48951.22	9.5330	1.000	1	9.53
delta-BHC	9.996	3085.18	0.3459	1.000	1	0.35
Heptachlor	10.522	0.00	0.0000	1.000	1	0.00
Aldrin	11.296	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	12.917	2093.81	0.2395	1.000	1	0.24
gamma-Chlordane	13.191	768.52	0.0841	1.000	1	0.08
alpha-Chlordane	13.511	0.00	0.0000	1.000	1	0.00
4,4'-DDE	13.759	2431.73	0.3120	1.000	1	0.31
Endosulfan I	13.842	0.00	0.0000	1.000	1	0.00
Dieldrin	14.441	0.00	0.0000	1.000	1	0.00
Endrin	15.005	363830.37	51.5372	1.000	1	51.54
4,4'-DDD	15.243	18401.91	3.2637	1.000	1	3.26
Endosulfan II	15.561	3447.50	0.4499	1.000	1	0.45
4,4'-DDT	15.907	547615.78	120.1974	1.000	1	120.20
Endrin aldehyde	16.604	6045.56	0.9304	1.000	1	0.93
Methoxychlor	17.120	593184.10	267.5559	1.000	1	267.56
Endosulfan sulfate	17.657	3143.66	0.4546	1.000	1	0.45
Endrin ketone	18.322	14446.81	1.9086	1.000	1	1.91
Decachlorobiphenyl	20.762	0.00	0.0000	1.000	1	0.00
		1763157.38	475.7990			475.80

SOO 10/6/04

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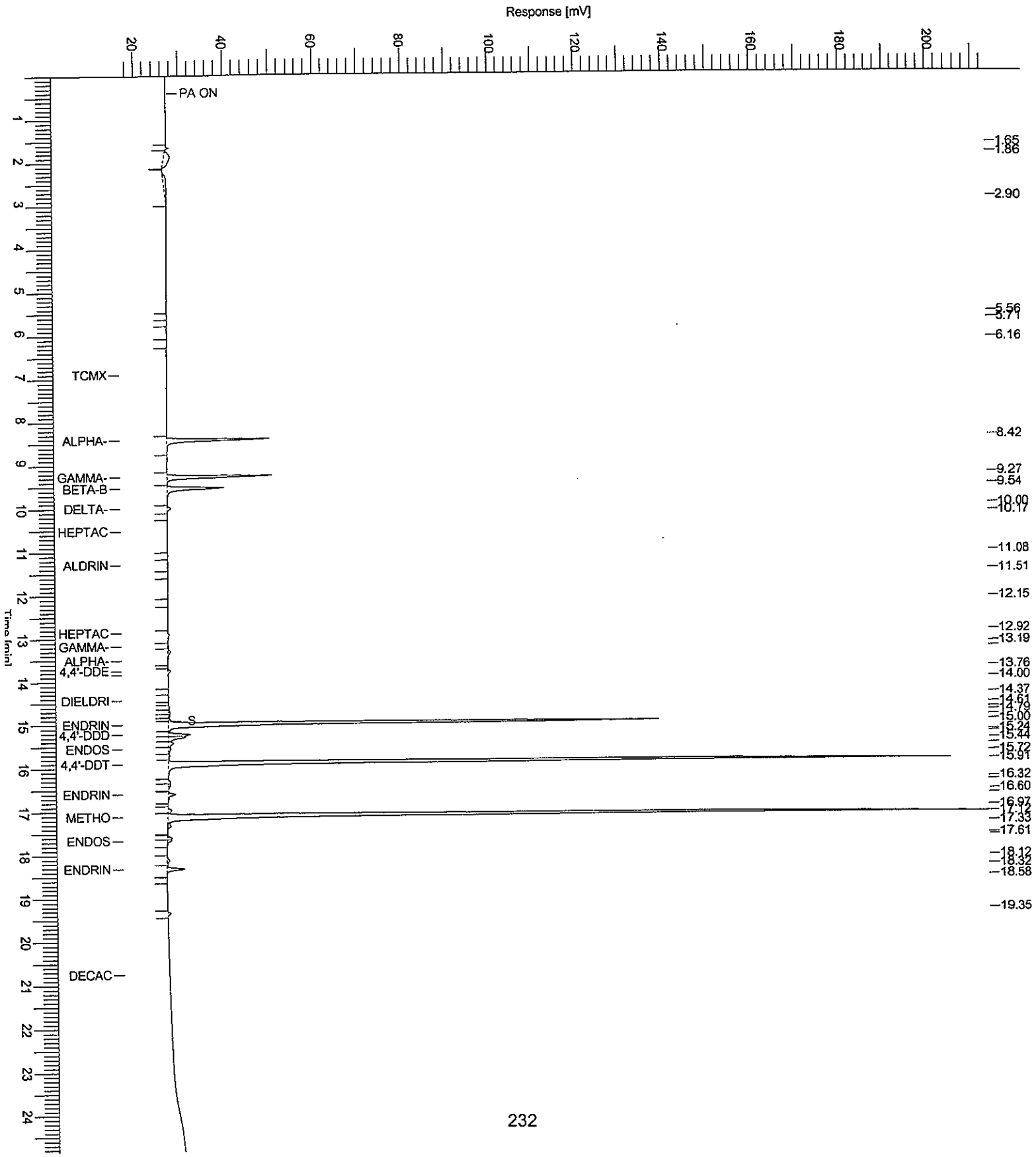
Report stored in ASCII file: G:\gc16\cha\279a014p.TX0

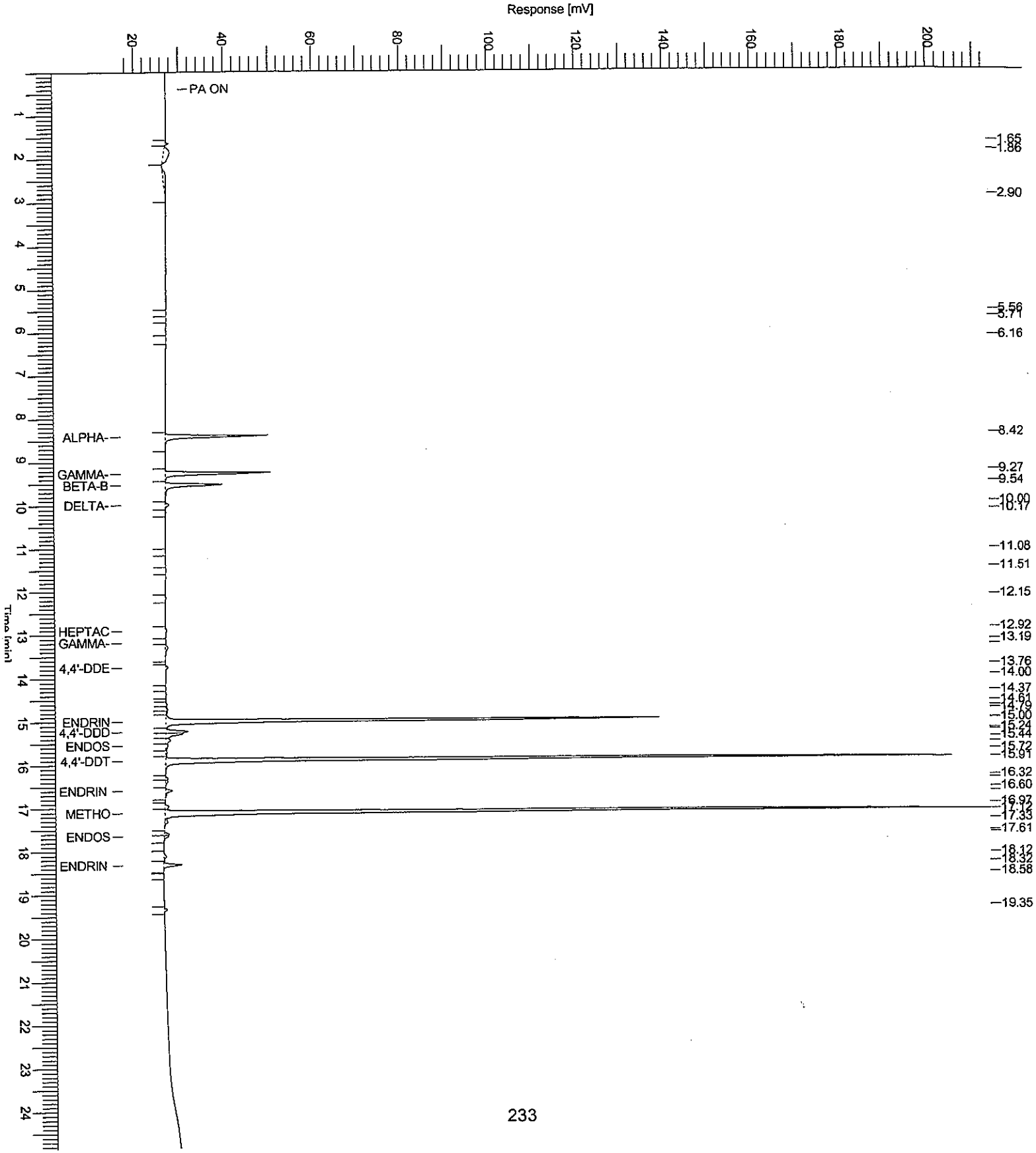
GC16 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : g:\gc16\cha\279a014.raw
ate : 10/6/04 11:14:34 AM
ethod :
Time of Injection: 10/5/04 10:14:21 PM
art Time : 0.00 min End Time : 24.85 min Low Point : 16.31 mV High Point : 213.27 mV
ot Offset: 16.31 mV Plot Scale: 197.0 mV



GC16 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : G:\gc16\Cha\279a014.raw
ate : 10/6/04 3:00:19 PM
ethod : gc16 Time of Injection: 10/5/04 10:14:21 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 16.80 mV High Point : 213.27 mV
cale Factor: 1.0 Plot Offset: 16.80 mV Plot Scale: 196.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC16
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 10/6/04 11:15:57 AM
Data Acquisition Time : 10/5/04 10:14:21 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b014p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.862	0.00	0.0000	1.000	1	0.00
alpha-BHC	8.533	354655.37	10.1415	1.000	1	10.14
gamma-BHC	9.490	337168.61	10.4070	1.000	1	10.41
beta-BHC	9.734	185309.32	10.2219	1.000	1	10.22
delta-BHC	10.497	17724.10	0.4983	1.000	1	0.50
Heptachlor	10.629	0.00	0.0000	1.000	1	0.00
Aldrin	11.454	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	12.923	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	13.387	3245.13	0.1029	1.000	1	0.10
alpha-Chlordane	13.766	0.00	0.0000	1.000	1	0.00
Endosulfan I	13.906	1723.67	0.0611	1.000	1	0.06
4,4'-DDE	14.249	12339.10	0.4579	1.000	1	0.46
Dieldrin	14.566	1270.61	0.0459	1.000	1	0.05
Endrin	15.307	1116267.07	50.6803	1.000	1	50.68
4,4'-DDD	15.664	84883.90	4.9568	1.000	1	4.96
Endosulfan II	15.824	19372.97	0.7975	1.000	1	0.80
4,4'-DDT	16.413	1494996.64	112.3613	1.000	1	112.36
Endrin aldehyde	16.658	23854.87	1.2875	1.000	1	1.29
Endosulfan sulfate	17.325	14054.70	0.6126	1.000	1	0.61
Methoxychlor	18.120	1474672.14	264.0795	1.000	1	264.08
Endrin ketone	18.596	51996.06	2.4168	1.000	1	2.42
Decachlorobiphenyl	21.617	0.00	0.0000	1.000	1	0.00
		5193534.24	469.1288			469.13

SOO 10/6/04

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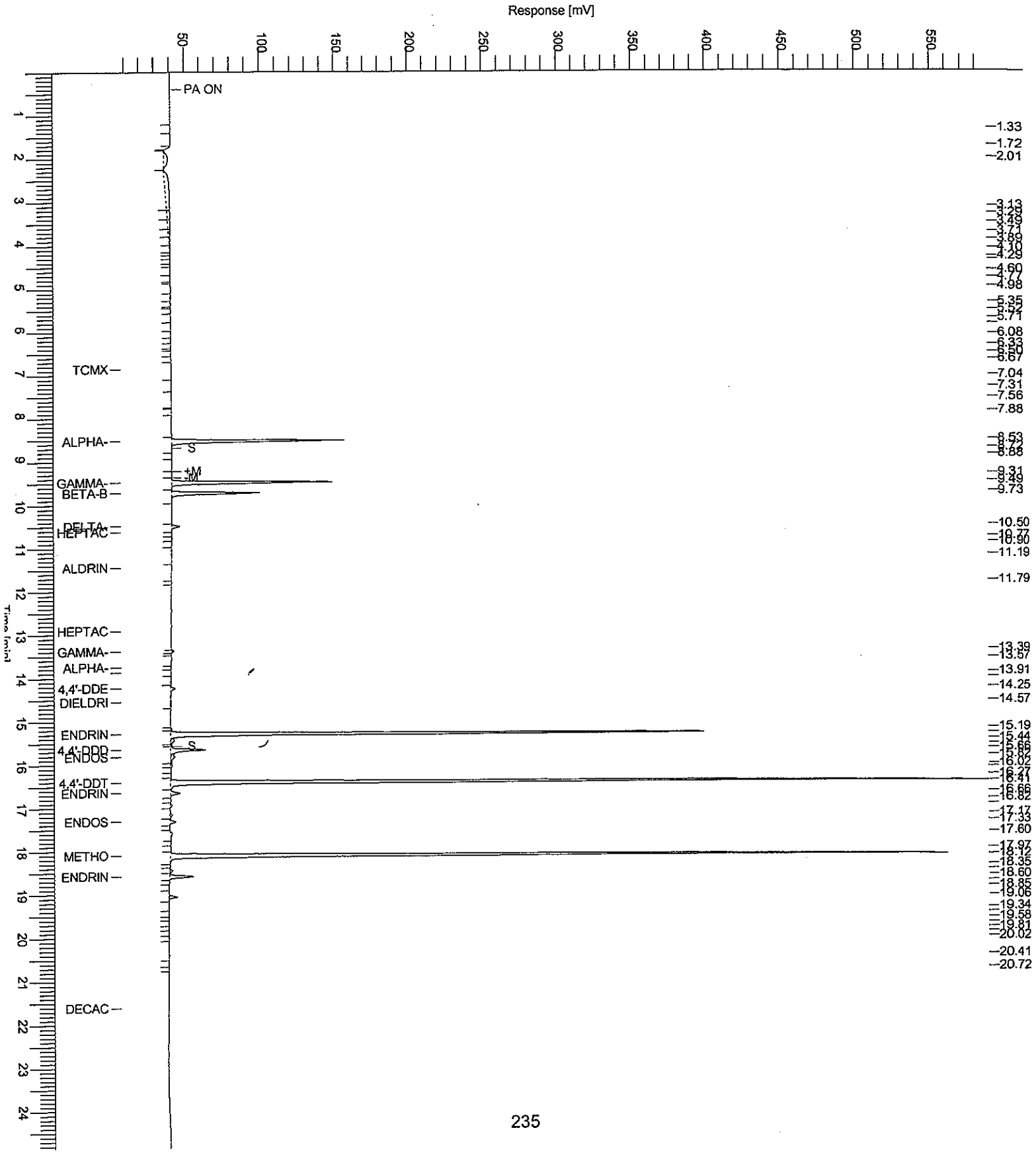
Report stored in ASCII file: G:\gc16\chb\279b014p.TX0

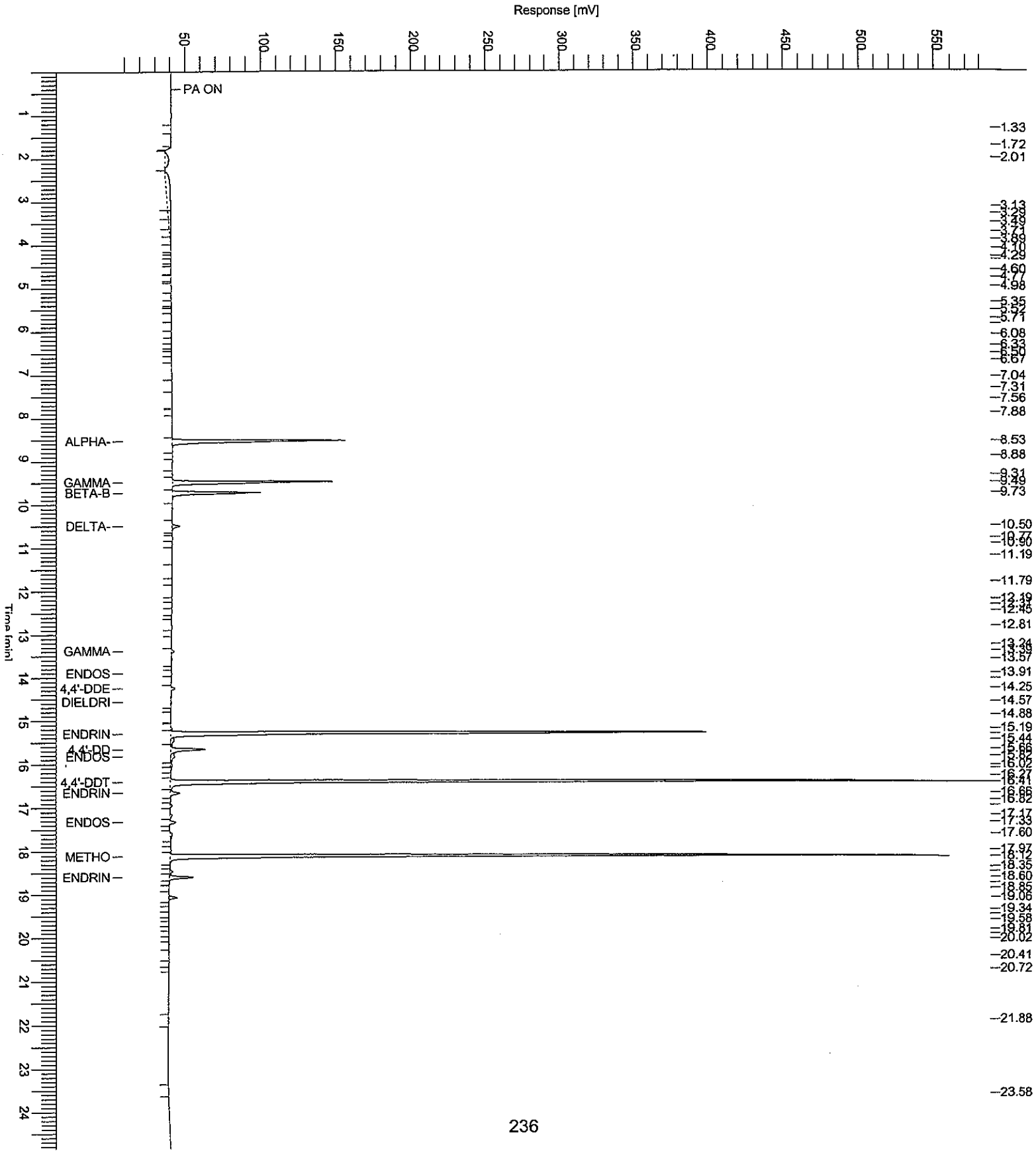
GC16 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : g:\gc16\chb\279b014.raw
ate : 10/6/04 11:16:02 AM
ethod :
Time of Injection: 10/5/04 10:14:21 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 7.68 mV High Point : 588.15 mV
lot Offset: 7.68 mV Plot Scale: 580.5 mV



GC16 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc16\Chb\279b014
ate : 10/6/04 3:00:47 PM
ethod : gc16 Time of Injection: 10/5/04 10:14:21 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 9.13 mV High Point : 588.15 mV
cale Factor: 1.0 Plot Offset: 9.13 mV Plot Scale: 579.0 mV



Turbochrom Method File G:\gc16\files\8081a280.mth
Printed by : pc_pest01 on: 10/6/04 3:46:35 PM
Created by : pc_pest01 on: 10/6/04 12:34:16 PM
Edited by : pc_pest01 on: 10/6/04 1:13:24 PM
Number of Times Edited : 1
Number of Times Calibrated : 417
Description: gc 16

/mm 10/6/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 6.897 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	32816.75	7367.43	----------	----------	1
2	10.0000	85157.26	19729.77	----------	----------	1
3	20.0000	158373.35	35373.69	----------	----------	1
4	40.0000	325805.35	74048.88	----------	----------	1
5	50.0000	426598.31	95648.48	----------	----------	1
6	100.0000	863438.28	193684.15	----------	----------	1
7	200.0000	1630126.45	342547.75	----------	----------	1

Average Calibration Factor = 8300.099480 (%RSD = 3.16)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 8.414 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	12998.89	3563.99	----------	----------	1
2	5.0000	36014.44	10324.66	----------	----------	1
3	10.0000	72315.89	20599.42	----------	----------	1
4	20.0000	179264.85	52885.37	----------	----------	1
5	25.0000	250229.21	72558.37	----------	----------	1
6	50.0000	585177.18	166324.34	----------	----------	1
7	100.0000	1170986.10	306270.59	----------	----------	1

Average Calibration Factor = 9045.676578 (%RSD = 24.00)

gamma-BHC
Component Type : Single Peak Component
Retention Time : 9.269 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	13331.46	3790.03	----------	----------	1
2	5.0000	36962.90	10812.61	----------	----------	1
3	10.0000	72938.31	20955.85	----------	----------	1
4	20.0000	175614.57	51542.44	----------	----------	1
5	25.0000	241568.57	70614.16	----------	----------	1
6	50.0000	551564.88	160190.97	----------	----------	1
7	100.0000	1068341.60	288430.86	----------	----------	1

Average Calibration Factor = 8787.189755 (%RSD = 19.75)

beta-BHC
Component Type : Single Peak Component
Retention Time : 9.536 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	10307.50	2610.25	----------	----------	1
2	5.0000	24867.52	6509.55	----------	----------	1
3	10.0000	43892.12	11398.69	----------	----------	1
4	20.0000	95576.94	25353.96	----------	----------	1
5	25.0000	126556.59	33677.71	----------	----------	1
6	50.0000	277576.09	73288.37	----------	----------	1
7	100.0000	519780.83	135438.92	----------	----------	1

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Average Calibration Factor = 5015.272568 (%RSD = 7.24)

delta-BHC
Component Type : Single Peak Component
Retention Time : 9.993 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	14222.05	3721.98	----------	----------	1
2	5.0000	35389.53	9486.45	----------	----------	1
3	10.0000	65676.35	18310.59	----------	----------	1
4	20.0000	159598.24	46411.36	----------	----------	1
5	25.0000	220582.16	63080.10	----------	----------	1
6	50.0000	532709.25	153015.63	----------	----------	1
7	100.0000	1024517.37	272135.63	----------	----------	1

Average Calibration Factor = 8351.303473 (%RSD = 19.30)

Heptachlor
Component Type : Single Peak Component
Retention Time : 10.522 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	15067.02	4514.34	----------	----------	1
2	5.0000	39771.74	12110.66	----------	----------	1
3	10.0000	72695.17	21958.33	----------	----------	1
4	20.0000	159429.64	48601.09	----------	----------	1
5	25.0000	214800.21	65506.57	----------	----------	1
6	50.0000	466144.51	142822.00	----------	----------	1
7	100.0000	860701.66	251362.81	----------	----------	1

Average Calibration Factor = 8178.681771 (%RSD = 8.65)

Aldrin
Component Type : Single Peak Component
Retention Time : 11.295 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	15080.35	4542.44	----------	----------	1
2	5.0000	39211.69	12082.88	----------	----------	1
3	10.0000	72294.02	22180.02	----------	----------	1
4	20.0000	161814.44	50686.32	----------	----------	1
5	25.0000	218396.89	68238.66	----------	----------	1
6	50.0000	488343.60	152524.77	----------	----------	1
7	100.0000	910162.60	268300.51	----------	----------	1

Average Calibration Factor = 8329.572511 (%RSD = 10.91)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 12.868 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	18071.44	5496.30	----------	----------	1
2	5.0000	45554.12	14050.71	----------	----------	1
3	10.0000	81278.94	25115.69	----------	----------	1
4	20.0000	171590.26	53095.35	----------	----------	1
5	25.0000	223136.51	68985.65	----------	----------	1
6	50.0000	472511.96	145801.76	----------	----------	1
7	100.0000	830606.32	247498.11	----------	----------	1

Average Calibration Factor = 8790.816258 (%RSD = 5.36)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 13.179 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	17986.69	5316.30	----------	----------	1
2	5.0000	45535.26	13699.83	----------	----------	1
3	10.0000	81505.05	24949.98	----------	----------	1
4	20.0000	175367.92	53387.05	----------	----------	1
5	25.0000	230803.80	70639.45	----------	----------	1
6	50.0000	506879.31	155908.81	----------	----------	1
7	100.0000	911771.70	269566.24	----------	----------	1

Average Calibration Factor = 9072.393036 (%RSD = 6.54)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 13.511 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	18066.39	5451.19	----------	----------	1
2	5.0000	46122.61	14199.98	----------	----------	1
3	10.0000	82754.12	25326.09	----------	----------	1
4	20.0000	177055.27	54368.52	----------	----------	1
5	25.0000	231671.41	71766.04	----------	----------	1
6	50.0000	502083.19	156252.19	----------	----------	1
7	100.0000	894615.06	270180.14	----------	----------	1

Average Calibration Factor = 9091.509331 (%RSD = 5.85)

4,4'-DDE

Component Type : Single Peak Component
Retention Time : 13.752 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	27641.26	8166.77	----------	----------	1
2	10.0000	75642.77	23115.84	----------	----------	1
3	20.0000	140603.70	43303.17	----------	----------	1
4	40.0000	315390.46	96974.28	----------	----------	1
5	50.0000	416880.64	127554.10	----------	----------	1
6	100.0000	907148.07	281632.28	----------	----------	1
7	200.0000	1578554.74	478797.69	----------	----------	1

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Average Calibration Factor = 7813.058179 (%RSD = 9.58)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 13.841 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	18962.29	5279.77	----------	----------	1
2	5.0000	48041.01	13594.39	----------	----------	1
3	10.0000	86283.35	24240.37	----------	----------	1
4	20.0000	182809.43	52076.43	----------	----------	1
5	25.0000	235112.31	68458.96	----------	----------	1
6	50.0000	522358.45	150003.08	----------	----------	1
7	100.0000	923746.97	255615.52	----------	----------	1

Average Calibration Factor = 9421.040570 (%RSD = 5.87)

Dieldrin
Component Type : Single Peak Component
Retention Time : 14.441 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	31156.15	9636.16	----------	----------	1
2	10.0000	83740.66	26763.37	----------	----------	1
3	20.0000	153587.74	48661.94	----------	----------	1
4	40.0000	331109.80	103324.66	----------	----------	1
5	50.0000	428508.73	136422.10	----------	----------	1
6	100.0000	903899.12	276300.93	----------	----------	1
7	200.0000	1553245.79	459977.93	----------	----------	1

Average Calibration Factor = 8213.661503 (%RSD = 6.10)

Endrin
Component Type : Single Peak Component
Retention Time : 15.003 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	27183.43	8195.14	----------	----------	1
2	10.0000	72615.34	22394.84	----------	----------	1
3	20.0000	129898.72	40045.36	----------	----------	1
4	40.0000	280426.57	86055.49	----------	----------	1
5	50.0000	364075.04	110864.45	----------	----------	1
6	100.0000	769641.77	233268.19	----------	----------	1
7	200.0000	1302623.93	380096.31	----------	----------	1

Average Calibration Factor = 7007.718693 (%RSD = 6.29)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 15.229 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	20346.75	5350.27	----------	----------	1
2	10.0000	54711.74	15343.77	----------	----------	1
3	20.0000	101736.30	29598.71	----------	----------	1
4	40.0000	237671.57	71170.71	----------	----------	1
5	50.0000	308344.56	92145.45	----------	----------	1
6	100.0000	698079.09	211910.94	----------	----------	1
7	200.0000	1222255.65	361791.97	----------	----------	1

Average Calibration Factor = 5835.060911 (%RSD = 11.63)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 15.562 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	31722.70	9541.59	----------	----------	1
2	10.0000	82760.36	25259.24	----------	----------	1
3	20.0000	147197.25	44514.51	----------	----------	1
4	40.0000	309764.63	93070.63	----------	----------	1
5	50.0000	396730.48	117688.26	----------	----------	1
6	100.0000	831260.27	246509.25	----------	----------	1
7	200.0000	1411619.39	408125.68	----------	----------	1

Average Calibration Factor = 7802.285574 (%RSD = 5.90)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 15.906 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	10487.64	3276.21	----------	----------	1
2	10.0000	33856.59	10841.58	----------	----------	1
3	20.0000	68967.46	22554.70	----------	----------	1
4	40.0000	180406.97	58523.67	----------	----------	1
5	50.0000	251188.45	80717.94	----------	----------	1
6	100.0000	628382.29	198884.80	----------	----------	1
7	200.0000	1161038.11	357194.37	----------	----------	1

Average Calibration Factor = 4439.842719 (%RSD = 30.51)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 16.601 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	31432.96	8869.10	----------	----------	1
2	10.0000	73185.66	21274.10	----------	----------	1
3	20.0000	128178.93	36825.37	----------	----------	1
4	40.0000	255976.28	73358.72	----------	----------	1
5	50.0000	327504.99	92893.59	----------	----------	1
6	100.0000	678959.17	191552.00	----------	----------	1
7	200.0000	1161952.47	320483.67	----------	----------	1

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Average Calibration Factor = 6733.516135 (%RSD = 9.99)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 17.120 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	45296.86	14418.68	----------	----------	1
2	50.0000	127389.67	40934.22	----------	----------	1
3	100.0000	225095.49	70760.86	----------	----------	1
4	200.0000	456918.05	145070.70	----------	----------	1
5	250.0000	580710.63	180322.86	----------	----------	1
6	500.0000	1208578.23	370674.33	----------	----------	1
7	1000.0000	2088570.89	647718.60	----------	----------	1

Average Calibration Factor = 2310.964495 (%RSD = 6.21)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 17.665 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	31708.46	9482.95	----------	----------	1
2	10.0000	76816.66	23138.19	----------	----------	1
3	20.0000	134452.32	40021.89	----------	----------	1
4	40.0000	275482.45	80874.19	----------	----------	1
5	50.0000	350967.80	101274.02	----------	----------	1
6	100.0000	728198.11	207598.73	----------	----------	1
7	200.0000	1234516.27	347150.40	----------	----------	1

Average Calibration Factor = 7098.911171 (%RSD = 8.35)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 18.320 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	30263.36	9132.27	----------	----------	1
2	10.0000	80944.21	24986.39	----------	----------	1
3	20.0000	149096.25	45764.94	----------	----------	1
4	40.0000	314469.97	94225.10	----------	----------	1
5	50.0000	399894.98	117180.35	----------	----------	1
6	100.0000	827223.52	237642.13	----------	----------	1
7	200.0000	1397805.68	396795.66	----------	----------	1

Average Calibration Factor = 7747.998021 (%RSD = 5.69)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.762 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	162957.83	45617.46	----------	----------	1
4	40.0000	303310.32	85021.52	----------	----------	1
5	50.0000	379744.24	103870.81	----------	----------	1
2	10.0000	96779.77	27165.25	----------	----------	1
6	100.0000	742322.46	209423.58	----------	----------	1
7	200.0000	1244774.09	350741.05	----------	----------	1
1	4.0000	40617.35	11614.73	----------	----------	1

Average Calibration Factor = 8114.991767 (%RSD = 16.84)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32816.75	7367.43	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85157.26	19729.77	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
158373.35	35373.69	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
325805.35	74048.88	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
426598.31	95648.48	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
863438.28	193684.15	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1630126.45	342547.75	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12998.89	3563.99	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36014.44	10324.66	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72315.89	20599.42	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
179264.85	52885.37	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
250229.21	72558.37	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
585177.18	166324.34	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1170986.10	306270.59	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : gamma-BHC
Level : 1

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13331.46	3790.03	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36962.90	10812.61	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72938.31	20955.85	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175614.57	51542.44	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
241568.57	70614.16	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
551564.88	160190.97	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1068341.60	288430.86	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : beta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10307.50	2610.25	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24867.52	6509.55	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43892.12	11398.69	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95576.94	25353.96	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126556.59	33677.71	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
277576.09	73288.37	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
519780.83	135438.92	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : delta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14222.05	3721.98	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35389.53	9486.45	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65676.35	18310.59	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159598.24	46411.36	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220582.16	63080.10	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
532709.25	153015.63	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1024517.37	272135.63	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Heptachlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15067.02	4514.34	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39771.74	12110.66	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72695.17	21958.33	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159429.64	48601.09	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
214800.21	65506.57	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
466144.51	142822.00	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
860701.66	251362.81	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Aldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15080.35	4542.44	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39211.69	12082.88	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72294.02	22180.02	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
161814.44	50686.32	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
218396.89	68238.66	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
488343.60	152524.77	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
910162.60	268300.51	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Heptachlor epoxide

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18071.44	5496.30	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45554.12	14050.71	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81278.94	25115.69	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171590.26	53095.35	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
223136.51	68985.65	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
472511.96	145801.76	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
830606.32	247498.11	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : gamma-Chlordane

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17986.69	5316.30	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45535.26	13699.83	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81505.05	24949.98	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175367.92	53387.05	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
230803.80	70639.45	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
506879.31	155908.81	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
911771.70	269566.24	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18066.39	5451.19	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46122.61	14199.98	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82754.12	25326.09	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
177055.27	54368.52	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
231671.41	71766.04	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
502083.19	156252.19	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
894615.06	270180.14	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27641.26	8166.77	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75642.77	23115.84	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140603.70	43303.17	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
315390.46	96974.28	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
416880.64	127554.10	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
907148.07	281632.28	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1578554.74	478797.69	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Endosulfan I

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18962.29	5279.77	2.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48041.01	13594.39	5.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86283.35	24240.37	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182809.43	52076.43	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
235112.31	68458.96	25.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
522358.45	150003.08	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
923746.97	255615.52	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Dieldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31156.15	9636.16	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83740.66	26763.37	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153587.74	48661.94	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
331109.80	103324.66	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
428508.73	136422.10	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
903899.12	276300.93	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1553245.79	459977.93	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27183.43	8195.14	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72615.34	22394.84	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129898.72	40045.36	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
280426.57	86055.49	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
364075.04	110864.45	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
769641.77	233268.19	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1302623.93	380096.31	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : 4,4'-DDD
Level : 1

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20346.75	5350.27	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54711.74	15343.77	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101736.30	29598.71	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
237671.57	71170.71	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
308344.56	92145.45	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
698079.09	211910.94	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1222255.65	361791.97	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Endosulfan II
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31722.70	9541.59	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82760.36	25259.24	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
147197.25	44514.51	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
309764.63	93070.63	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
396730.48	117688.26	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
831260.27	246509.25	100.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1411619.39	408125.68	200.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10487.64	3276.21	4.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33856.59	10841.58	10.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68967.46	22554.70	20.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
180406.97	58523.67	40.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251188.45	80717.94	50.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
628382.29	198884.80	100.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1161038.11	357194.37	200.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31432.96	8869.10	4.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73185.66	21274.10	10.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128178.93	36825.37	20.0000	---------	---------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255976.28	73358.72	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
327504.99	92893.59	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
678959.17	191552.00	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1161952.47	320483.67	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45296.86	14418.68	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127389.67	40934.22	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
225095.49	70760.86	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
456918.05	145070.70	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
580710.63	180322.86	250.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1208578.23	370674.33	500.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2088570.89	647718.60	1000.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31708.46	9482.95	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
76816.66	23138.19	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
134452.32	40021.89	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
275482.45	80874.19	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
350967.80	101274.02	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
728198.11	207598.73	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1234516.27	347150.40	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Endrin ketone

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30263.36	9132.27	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80944.21	24986.39	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
149096.25	45764.94	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314469.97	94225.10	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
399894.98	117180.35	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
827223.52	237642.13	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

10/6/04 3:46:35 PM Method: G:\gc16\files\8081a280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1397805.68	396795.66	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
162957.83	45617.46	20.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
303310.32	85021.52	40.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
379744.24	103870.81	50.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a020p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
96779.77	27165.25	10.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
742322.46	209423.58	100.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1244774.09	350741.05	200.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a022p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40617.35	11614.73	4.0000	----------	----------	10/6/04	1:12:48 PM	G:\gc16\cha\279a016p.rst

Turbochrom Method File G:\gc16\files\8081b280.mth
Printed by : pc_pest01 on: 10/6/04 3:48:43 PM
Created by : pc_pest01 on: 10/6/04 12:35:06 PM
Edited by : pc_pest01 on: 10/6/04 2:46:00 PM
Number of Times Edited : 3
Number of Times Calibrated : 362
Description: gc 16

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 6.864 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	121776.84	31748.88	----------	----------	1
2	10.0000	289479.57	76222.06	----------	----------	1
3	20.0000	503787.77	135265.77	----------	----------	1
4	40.0000	972322.17	264040.08	----------	----------	1
5	50.0000	1255482.17	334717.75	----------	----------	1
6	100.0000	2447060.81	631539.95	----------	----------	1
7	200.0000	4365065.84	982442.14	----------	----------	1

Average Calibration Factor = 25756.455541 (%RSD = 11.44)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 8.530 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	67584.49	20207.82	----------	----------	1
2	5.0000	180671.22	55746.99	----------	----------	1
3	10.0000	338605.65	105754.45	----------	----------	1
4	20.0000	716033.59	227844.21	----------	----------	1
5	25.0000	949812.09	292872.29	----------	----------	1
6	50.0000	1978805.90	608561.82	----------	----------	1
7	100.0000	3605877.25	981385.03	----------	----------	1

Average Calibration Factor = 36173.729823 (%RSD = 5.76)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 9.483 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	66017.39	20563.46	----------	----------	1
2	5.0000	171735.02	54372.55	----------	----------	1
3	10.0000	312502.38	97952.35	----------	----------	1
4	20.0000	653876.18	206418.35	----------	----------	1
5	25.0000	855353.92	273683.93	----------	----------	1
6	50.0000	1775532.17	576196.82	----------	----------	1
7	100.0000	3265837.94	976680.31	----------	----------	1

Average Calibration Factor = 33383.275429 (%RSD = 4.21)

beta-BHC

Component Type : Single Peak Component
Retention Time : 9.731 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	46963.38	14345.71	----------	----------	1
2	5.0000	103781.13	31693.81	----------	----------	1
3	10.0000	171893.74	52832.58	----------	----------	1
4	20.0000	333322.42	101617.00	----------	----------	1
5	25.0000	424497.41	131898.58	----------	----------	1
6	50.0000	848294.53	260119.58	----------	----------	1
7	100.0000	1515790.98	460340.71	----------	----------	1

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Average Calibration Factor = 18171.015193 (%RSD = 15.90)

delta-BHC
Component Type : Single Peak Component
Retention Time : 10.495 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	77389.88	24919.71	----------	----------	1
2	5.0000	182060.04	60488.60	----------	----------	1
3	10.0000	317228.91	103895.29	----------	----------	1
4	20.0000	666094.29	227703.85	----------	----------	1
5	25.0000	864924.75	298073.94	----------	----------	1
6	50.0000	1820073.04	620520.60	----------	----------	1
7	100.0000	3214855.16	981623.08	----------	----------	1

Average Calibration Factor = 34754.508263 (%RSD = 7.34)

Heptachlor
Component Type : Single Peak Component
Retention Time : 10.629 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	47642.56	14642.39	----------	----------	1
2	5.0000	117642.65	36790.21	----------	----------	1
3	10.0000	204795.14	63631.40	----------	----------	1
4	20.0000	423013.11	138247.57	----------	----------	1
5	25.0000	556489.26	185798.03	----------	----------	1
6	50.0000	1159446.63	389009.04	----------	----------	1
7	100.0000	2127473.51	689859.78	----------	----------	1

Average Calibration Factor = 22243.316678 (%RSD = 5.88)

Aldrin
Component Type : Single Peak Component
Retention Time : 11.454 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	65905.93	21448.47	----------	----------	1
2	5.0000	166748.26	55391.54	----------	----------	1
3	10.0000	296748.19	98019.36	----------	----------	1
4	20.0000	607433.46	210260.05	----------	----------	1
5	25.0000	790081.15	270905.73	----------	----------	1
6	50.0000	1620196.09	544148.67	----------	----------	1
7	100.0000	2893395.02	949088.47	----------	----------	1

Average Calibration Factor = 31327.175260 (%RSD = 5.43)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 12.922 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	70378.73	22410.72	----------	----------	1
2	5.0000	170202.39	54633.53	----------	----------	1
3	10.0000	288017.12	91612.21	----------	----------	1
4	20.0000	561862.78	186222.08	----------	----------	1
5	25.0000	711298.82	240136.18	----------	----------	1
6	50.0000	1423449.30	478502.82	----------	----------	1
7	100.0000	2453357.63	809779.19	----------	----------	1

Average Calibration Factor = 29654.172690 (%RSD = 12.48)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 13.400 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	73302.92	23991.21	----------	----------	1
2	5.0000	176901.19	58618.39	----------	----------	1
3	10.0000	303381.38	101417.73	----------	----------	1
4	20.0000	607923.15	213578.27	----------	----------	1
5	25.0000	779790.94	269802.94	----------	----------	1
6	50.0000	1622934.85	554723.50	----------	----------	1
7	100.0000	2863234.04	959353.63	----------	----------	1

Average Calibration Factor = 32149.809696 (%RSD = 9.02)

alpha-Chlordane
Component Type : Single Peak Component
Retention Time : 13.766 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	73104.34	23820.27	----------	----------	1
2	5.0000	176929.82	57560.68	----------	----------	1
3	10.0000	301047.08	98747.68	----------	----------	1
4	20.0000	596937.41	199018.29	----------	----------	1
5	25.0000	754668.22	259236.40	----------	----------	1
6	50.0000	1574409.30	541936.19	----------	----------	1
7	100.0000	2777209.05	939831.68	----------	----------	1

Average Calibration Factor = 31619.530896 (%RSD = 10.07)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 13.882 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	66032.54	21160.29	----------	----------	1
2	5.0000	159945.36	51515.12	----------	----------	1
3	10.0000	271398.14	87314.54	----------	----------	1
4	20.0000	536569.99	178912.03	----------	----------	1
5	25.0000	679925.20	231267.06	----------	----------	1
6	50.0000	1374865.60	459563.97	----------	----------	1
7	100.0000	2351759.32	777527.67	----------	----------	1

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Average Calibration Factor = 28169.367048 (%RSD = 11.59)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 14.241 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	111903.28	38050.27	----------	----------	1
2	10.0000	299469.81	104017.11	----------	----------	1
3	20.0000	526591.83	187680.20	----------	----------	1
4	40.0000	1082827.27	391723.50	----------	----------	1
5	50.0000	1387009.05	505863.43	----------	----------	1
6	100.0000	2851480.69	982182.87	----------	----------	1
7	200.0000	3746399.71	981717.55	----------	----------	1

Average Calibration Factor = 26615.723096 (%RSD = 13.74)

Dieldrin
Component Type : Single Peak Component
Retention Time : 14.559 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	124790.00	40697.47	----------	----------	1
2	10.0000	314342.21	104580.12	----------	----------	1
3	20.0000	543453.43	186487.20	----------	----------	1
4	40.0000	1077521.48	370118.42	----------	----------	1
5	50.0000	1363787.87	470117.14	----------	----------	1
6	100.0000	2746812.29	932151.54	----------	----------	1
7	200.0000	3781766.19	981373.63	----------	----------	1

Average Calibration Factor = 27199.305934 (%RSD = 15.22)

Endrin
Component Type : Single Peak Component
Retention Time : 15.296 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	103808.93	32726.60	----------	----------	1
2	10.0000	260628.21	83961.57	----------	----------	1
3	20.0000	439090.38	141965.03	----------	----------	1
4	40.0000	877447.75	286391.23	----------	----------	1
5	50.0000	1117069.98	373291.60	----------	----------	1
6	100.0000	2295223.53	755915.00	----------	----------	1
7	200.0000	3503814.08	980701.81	----------	----------	1

Average Calibration Factor = 22674.067629 (%RSD = 12.74)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 15.654 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	79323.84	26504.69	----------	----------	1
2	10.0000	213494.09	72859.38	----------	----------	1
3	20.0000	369905.55	134780.36	----------	----------	1
4	40.0000	752909.64	274440.00	----------	----------	1
5	50.0000	955811.00	351316.66	----------	----------	1
6	100.0000	2013131.25	734022.59	----------	----------	1
7	200.0000	3196132.57	977116.49	----------	----------	1

Average Calibration Factor = 19103.797695 (%RSD = 8.77)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 15.823 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	124372.56	39223.43	----------	----------	1
2	10.0000	295076.30	93850.26	----------	----------	1
3	20.0000	487888.81	162972.33	----------	----------	1
4	40.0000	925673.14	306435.76	----------	----------	1
5	50.0000	1161362.10	370758.95	----------	----------	1
6	100.0000	2337611.66	734860.27	----------	----------	1
7	200.0000	3529062.78	976138.33	----------	----------	1

Average Calibration Factor = 24626.530207 (%RSD = 18.17)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 16.413 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	50499.59	16974.45	----------	----------	1
2	10.0000	140071.63	48003.87	----------	----------	1
3	20.0000	254381.39	88377.74	----------	----------	1
4	40.0000	565554.22	206991.09	----------	----------	1
5	50.0000	747215.36	266200.54	----------	----------	1
6	100.0000	1717472.33	598453.73	----------	----------	1
7	200.0000	2963883.48	976157.30	----------	----------	1

Average Calibration Factor = 14346.919002 (%RSD = 10.78)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 16.654 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	101655.32	31473.53	----------	----------	1
2	10.0000	229791.11	72599.82	----------	----------	1
3	20.0000	376221.61	124109.86	----------	----------	1
4	40.0000	721698.32	237152.15	----------	----------	1
5	50.0000	906131.98	296983.01	----------	----------	1
6	100.0000	1827919.83	593643.84	----------	----------	1
7	200.0000	3083385.18	978023.65	----------	----------	1

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Average Calibration Factor = 19580.748953 (%RSD = 17.41)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 17.321 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	117011.03	36659.45	----------	----------	1
2	10.0000	264354.25	83422.99	----------	----------	1
3	20.0000	429684.85	138643.81	----------	----------	1
4	40.0000	827845.24	273015.58	----------	----------	1
5	50.0000	1038460.81	343108.29	----------	----------	1
6	100.0000	2094043.29	692316.34	----------	----------	1
7	200.0000	3339155.86	980426.84	----------	----------	1

Average Calibration Factor = 22324.854811 (%RSD = 18.67)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 18.113 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	139943.82	47336.06	----------	----------	1
2	50.0000	340197.40	113972.57	----------	----------	1
3	100.0000	568811.92	195663.55	----------	----------	1
4	200.0000	1148205.64	393111.63	----------	----------	1
5	250.0000	1463540.26	510890.04	----------	----------	1
6	500.0000	3011583.04	982141.64	----------	----------	1

Average Calibration Factor = 6184.602294 (%RSD = 9.21)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 18.588 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	113252.68	35168.88	----------	----------	1
2	10.0000	270811.24	85159.71	----------	----------	1
3	20.0000	454362.47	146030.84	----------	----------	1
4	40.0000	890858.01	285133.98	----------	----------	1
5	50.0000	1114639.90	359998.17	----------	----------	1
6	100.0000	2265429.94	739871.14	----------	----------	1
7	200.0000	3538675.24	981448.30	----------	----------	1

Average Calibration Factor = 23289.191716 (%RSD = 15.05)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.618 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	359336.98	110282.09	----------	----------	1
4	40.0000	667795.35	211488.60	----------	----------	1
5	50.0000	832194.87	265975.58	----------	----------	1
2	10.0000	219333.93	67330.78	----------	----------	1
6	100.0000	1683330.12	556464.51	----------	----------	1
7	200.0000	2931548.55	947126.31	----------	----------	1
1	4.0000	98972.37	30553.32	----------	----------	1

Average Calibration Factor = 18496.165681 (%RSD = 19.15)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
121776.84	31748.88	4.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
289479.57	76222.06	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
503787.77	135265.77	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
972322.17	264040.08	40.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1255482.17	334717.75	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2447060.81	631539.95	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4365065.84	982442.14	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : alpha-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67584.49	20207.82	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
180671.22	55746.99	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
338605.65	105754.45	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
716033.59	227844.21	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
949812.09	292872.29	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1978805.90	608561.82	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3605877.25	981385.03	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : gamma-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66017.39	20563.46	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171735.02	54372.55	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
312502.38	97952.35	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
653876.18	206418.35	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
855353.92	273683.93	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1775532.17	576196.82	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3265837.94	976680.31	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46963.38	14345.71	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103781.13	31693.81	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171893.74	52832.58	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
333322.42	101617.00	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
424497.41	131898.58	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
848294.53	260119.58	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1515790.98	460340.71	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : delta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77389.88	24919.71	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182060.04	60488.60	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
317228.91	103895.29	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
666094.29	227703.85	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
864924.75	298073.94	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1820073.04	620520.60	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3214855.16	981623.08	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Heptachlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47642.56	14642.39	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117642.65	36790.21	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
204795.14	63631.40	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
423013.11	138247.57	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
556489.26	185798.03	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1159446.63	389009.04	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2127473.51	689859.78	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65905.93	21448.47	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
166748.26	55391.54	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
296748.19	98019.36	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
607433.46	210260.05	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
790081.15	270905.73	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1620196.09	544148.67	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2893395.02	949088.47	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70378.73	22410.72	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
170202.39	54633.53	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
288017.12	91612.21	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
561862.78	186222.08	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
711298.82	240136.18	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1423449.30	478502.82	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2453357.63	809779.19	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73302.92	23991.21	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
176901.19	58618.39	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
303381.38	101417.73	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
607923.15	213578.27	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
779790.94	269802.94	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1622934.85	554723.50	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2863234.04	959353.63	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : alpha-Chlordane
Level : 1

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73104.34	23820.27	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
176929.82	57560.68	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
301047.08	98747.68	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
596937.41	199018.29	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
754668.22	259236.40	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1574409.30	541936.19	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2777209.05	939831.68	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Endosulfan I
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66032.54	21160.29	2.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
159945.36	51515.12	5.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
271398.14	87314.54	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
536569.99	178912.03	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
679925.20	231267.06	25.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1374865.60	459563.97	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2351759.32	777527.67	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
111903.28	38050.27	4.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299469.81	104017.11	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
526591.83	187680.20	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1082827.27	391723.50	40.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1387009.05	505863.43	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2851480.69	982182.87	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3746399.71	981717.55	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124790.00	40697.47	4.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314342.21	104580.12	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
543453.43	186487.20	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1077521.48	370118.42	40.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1363787.87	470117.14	50.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2746812.29	932151.54	100.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3781766.19	981373.63	200.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103808.93	32726.60	4.0000	---------	---------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
260628.21	83961.57	10.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
439090.38	141965.03	20.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
877447.75	286391.23	40.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1117069.98	373291.60	50.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2295223.53	755915.00	100.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3503814.08	980701.81	200.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : 4,4'-DDD
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
79323.84	26504.69	4.0000	---------	---------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
213494.09	72859.38	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
369905.55	134780.36	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
752909.64	274440.00	40.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
955811.00	351316.66	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2013131.25	734022.59	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3196132.57	977116.49	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Endosulfan II
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124372.56	39223.43	4.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
295076.30	93850.26	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
487888.81	162972.33	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
925673.14	306435.76	40.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1161362.10	370758.95	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2337611.66	734860.27	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3529062.78	976138.33	200.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50499.59	16974.45	4.0000	---------	---------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140071.63	48003.87	10.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
254381.39	88377.74	20.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
565554.22	206991.09	40.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
747215.36	266200.54	50.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1717472.33	598453.73	100.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2963883.48	976157.30	200.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101655.32	31473.53	4.0000	---------	---------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229791.11	72599.82	10.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
376221.61	124109.86	20.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
721698.32	237152.15	40.0000	---------	---------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
906131.98	296983.01	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1827919.83	593643.84	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3083385.18	978023.65	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117011.03	36659.45	4.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
264354.25	83422.99	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
429684.85	138643.81	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
827845.24	273015.58	40.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1038460.81	343108.29	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2094043.29	692316.34	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3339155.86	980426.84	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
139943.82	47336.06	20.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
340197.40	113972.57	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
568811.92	195663.55	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1148205.64	393111.63	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1463540.26	510890.04	250.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3011583.04	982141.64	500.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Component : Endrin ketone
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
113252.68	35168.88	4.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
270811.24	85159.71	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
454362.47	146030.84	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
890858.01	285133.98	40.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1114639.90	359998.17	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2265429.94	739871.14	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3538675.24	981448.30	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
359336.98	110282.09	20.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b018p.rst

Level : 4

10/6/04 3:48:43 PM Method: G:\gc16\files\8081b280.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
667795.35	211488.60	40.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b019p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
832194.87	265975.58	50.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b020p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
219333.93	67330.78	10.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b017p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1683330.12	556464.51	100.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b021p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2931548.55	947126.31	200.0000	----------	----------	10/6/04	12:37:57 PM	G:\gc16\chb\279b022p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98972.37	30553.32	4.0000	----------	----------	10/6/04	12:37:56 PM	G:\gc16\chb\279b016p.rst

Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : GC16
Rack/Vial : 1/1
Sample Amount : 1.000000
Cycle : 1

Date : 10/6/04 4:27:11 PM
Data Acquisition Time : 10/5/04 1:32:28 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\cha\279a001.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.897	0.00	0.0000	1.000	1	0.00
alpha-BHC	8.426	409.38	0.0453	1.000	1	0.05
gamma-BHC	9.290	286.44	0.0326	1.000	1	0.03
beta-BHC	9.557	337.32	0.0673	1.000	1	0.07
delta-BHC	10.014	756.59	0.0911	1.000	1	0.09
Heptachlor	10.555	216.55	0.0265	1.000	1	0.03
Aldrin	11.295	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	12.890	146.79	0.0167	1.000	1	0.02
gamma-Chlordane	13.222	546.99	0.0603	1.000	1	0.06
alpha-Chlordane	13.531	8946.03	0.9840	1.000	1	0.98
4,4'-DDE	13.752	0.00	0.0000	1.000	1	0.00
Endosulfan I	13.860	13484.36	1.4313	1.000	1	1.43
Dieldrin	14.441	0.00	0.0000	1.000	1	0.00
Endrin	15.043	336.81	0.0481	1.000	1	0.05
4,4'-DDD	15.229	0.00	0.0000	1.000	1	0.00
Endosulfan II	15.565	7632.12	0.9782	1.000	1	0.98
4,4'-DDT	15.906	0.00	0.0000	1.000	1	0.00
Endrin aldehyde	16.599	1989.56	0.2955	1.000	1	0.30
Methoxychlor	17.140	2389.83	1.0341	1.000	1	1.03
Endosulfan sulfate	17.688	3506.29	0.4939	1.000	1	0.49
Endrin ketone	18.337	2212.31	0.2855	1.000	1	0.29
Decachlorobiphenyl	20.780	2738.05	0.3374	1.000	1	0.34
		45935.40	6.2278			6.23

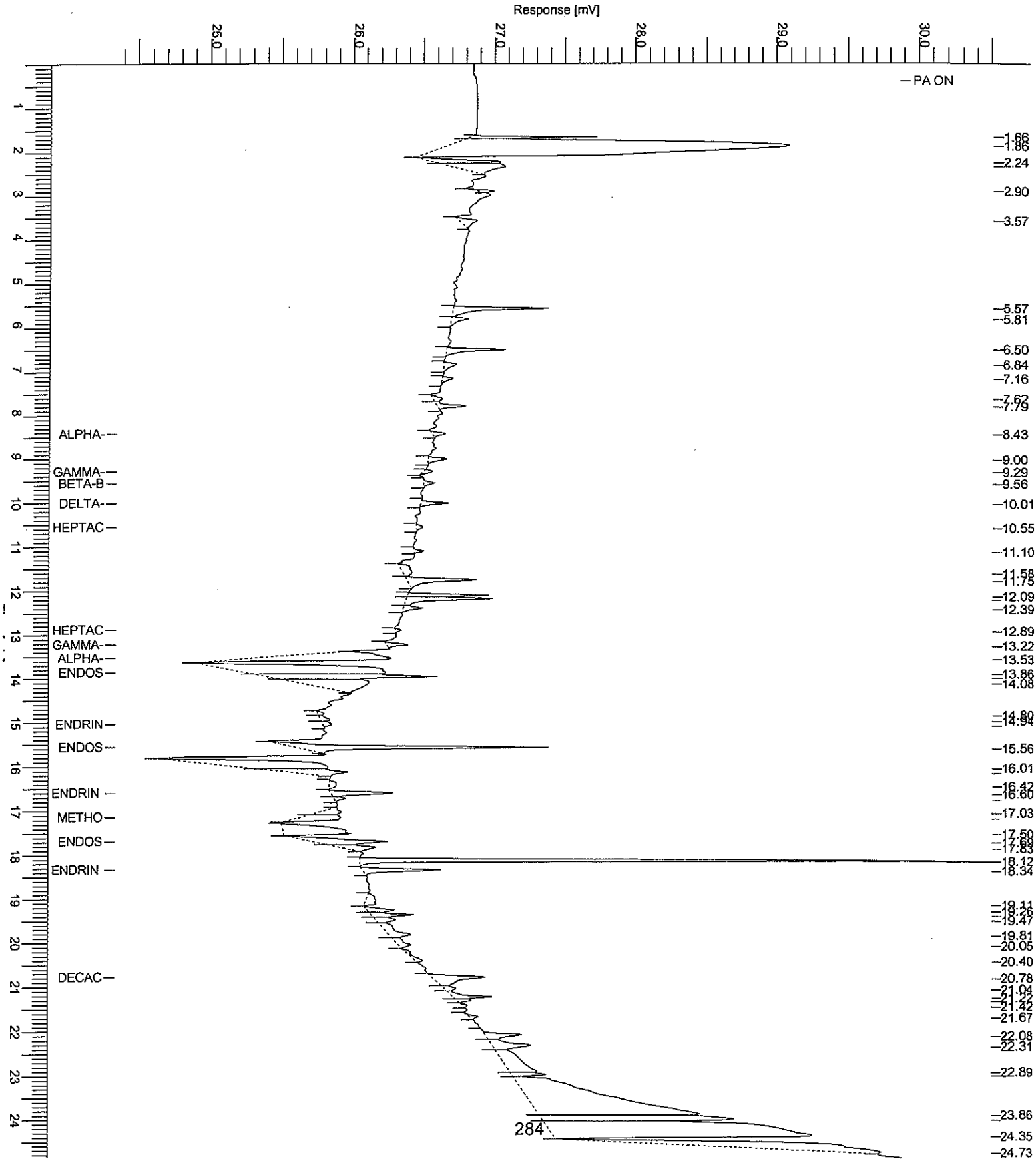
L SJB 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\cha\279a001.TX0

GC16 Rtx-CLPesticides

ample Name : hex Sample #: 279 Page 1 of 1
leName : G:\gc16\Cha\279a001.raw
ate : 10/6/04 4:27:13 PM
ethod : gc16 Time of Injection: 10/5/04 1:32:28 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 24.36 mV High Point : 30.51 mV
cale Factor: 1.0 Plot Offset: 24.36 mV Plot Scale: 6.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : GC16
Rack/Vial : 1/1
Sample Amount : 1.000000
Cycle : 1

Date : 10/6/04 4:27:14 PM
Data Acquisition Time : 10/5/04 1:32:28 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\chb\279b001.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.863	1084.26	0.0421	1.000	1	0.04
alpha-BHC	8.528	2902.35	0.0830	1.000	1	0.08
gamma-BHC	9.494	2996.45	0.0925	1.000	1	0.09
beta-BHC	9.735	3879.19	0.2140	1.000	1	0.21
delta-BHC	10.505	8192.87	0.2303	1.000	1	0.23
Heptachlor	10.629	0.00	0.0000	1.000	1	0.00
Aldrin	11.482	4851.49	0.1586	1.000	1	0.16
Heptachlor epoxide	12.923	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	13.407	38832.40	1.2315	1.000	1	1.23
alpha-Chlordane	13.776	25763.23	0.8321	1.000	1	0.83
Endosulfan I	13.867	30692.58	1.0883	1.000	1	1.09
4,4'-DDE	14.261	5217.38	0.1936	1.000	1	0.19
Dieldrin	14.571	10650.50	0.3845	1.000	1	0.38
Endrin	15.295	0.00	0.0000	1.000	1	0.00
4,4'-DDD	15.654	0.00	0.0000	1.000	1	0.00
Endosulfan II	15.820	5730.90	0.2359	1.000	1	0.24
4,4'-DDT	16.363	766.46	0.0576	1.000	1	0.06
Endrin aldehyde	16.661	17574.34	0.9485	1.000	1	0.95
Endosulfan sulfate	17.330	23544.10	1.0262	1.000	1	1.03
Methoxychlor	18.135	21036.82	3.7672	1.000	1	3.77
Endrin ketone	18.569	84870.00	3.9448	1.000	1	3.94
Decachlorobiphenyl	21.594	692.58	0.0392	1.000	1	0.04
		289277.91	14.5700			14.57

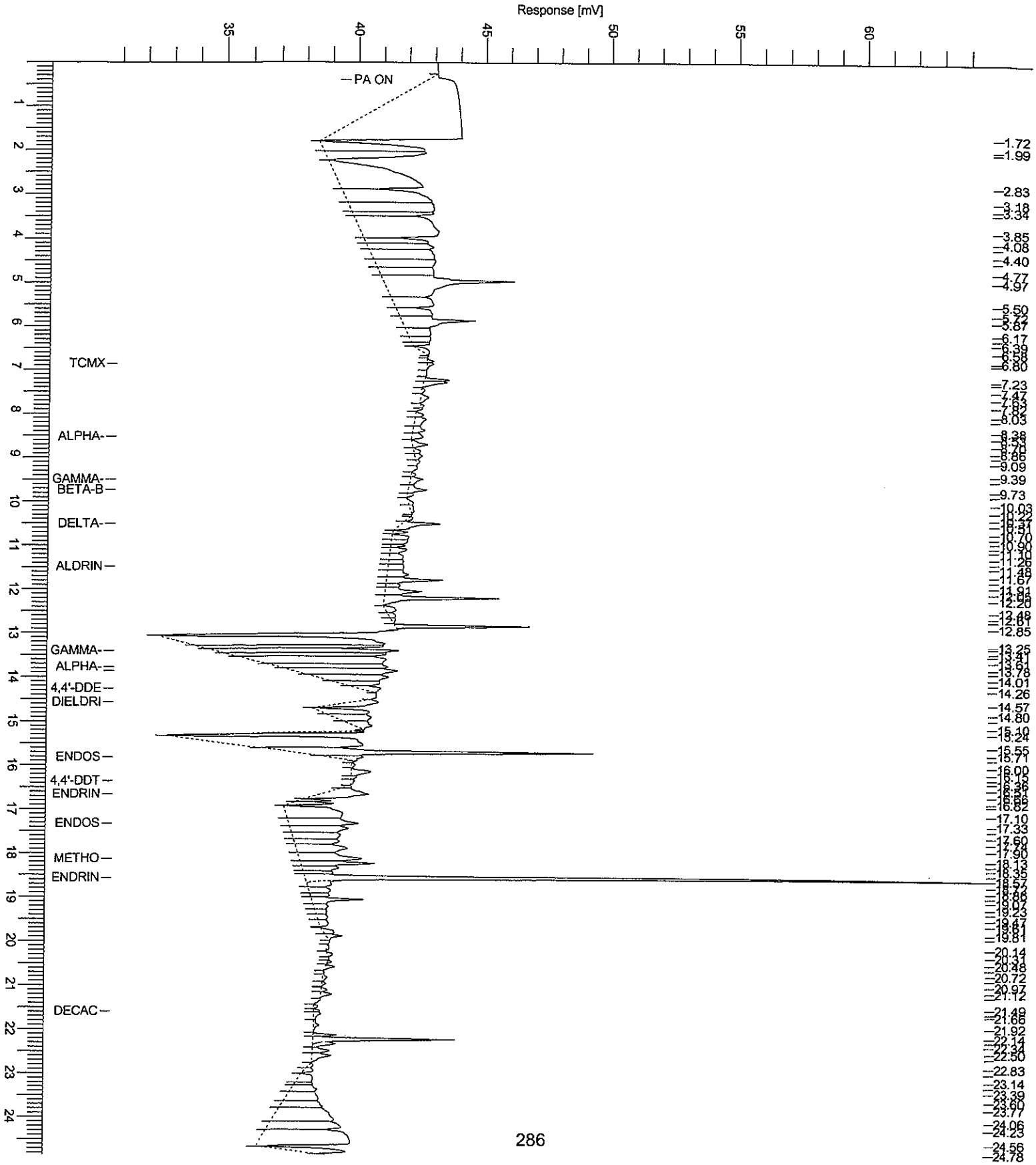
L SJS 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\chb\279b001.TX0

GC16 Rtx-CLPesticides2

ample Name : hex Sample #: 279 Page 1 of 1
leName : G:\gc16\Chb\279b001
ate : 10/6/04 4:27:16 PM
ethod : gc16 Time of Injection: 10/5/04 1:32:28 PM
lart Time : 0.00 min End Time : 24.85 min Low Point : 30.86 mV High Point : 64.88 mV
cale Factor: 1.0 Plot Offset: 30.86 mV Plot Scale: 34.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : GC16
Rack/Vial : 1/16
Sample Amount : 1.000000
Cycle : 16

Date : 10/6/04 10:43:13 AM
Data Acquisition Time : 10/5/04 11:14:54 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a016p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.895	32816.75	3.9376	1.000	1	3.94
alpha-BHC	8.413	12998.89	1.5865	1.000	1	1.59
gamma-BHC	9.268	13331.46	1.6241	1.000	1	1.62
beta-BHC	9.535	10307.50	2.0073	1.000	1	2.01
delta-BHC	9.992	14222.05	1.5946	1.000	1	1.59
Heptachlor	10.522	15067.02	1.8019	1.000	1	1.80
Aldrin	11.295	15080.35	1.8062	1.000	1	1.81
Heptachlor epoxide	12.868	18071.44	2.0669	1.000	1	2.07
gamma-Chlordane	13.182	17986.69	1.9677	1.000	1	1.97
alpha-Chlordane	13.512	18066.39	1.9850	1.000	1	1.99
4,4'-DDE	13.756	27641.26	3.5468	1.000	1	3.55
Endosulfan I	13.842	18962.29	2.0249	1.000	1	2.02
Dieldrin	14.442	31156.15	3.8113	1.000	1	3.81
Endrin	15.004	27183.43	3.8506	1.000	1	3.85
4,4'-DDD	15.231	20346.75	3.6086	1.000	1	3.61
Endosulfan II	15.564	31722.70	4.1397	1.000	1	4.14
4,4'-DDT	15.906	10487.64	2.3020	1.000	1	2.30
Endrin aldehyde	16.602	31432.96	4.8374	1.000	1	4.84
Methoxychlor	17.121	45296.86	20.4312	1.000	1	20.43
Endosulfan sulfate	17.666	31708.46	4.5855	1.000	1	4.59
Endrin ketone	18.321	30263.36	3.9982	1.000	1	4.00
Decachlorobiphenyl	20.764	40617.35	5.1930	1.000	1	5.19
		514767.77	82.7070			82.71

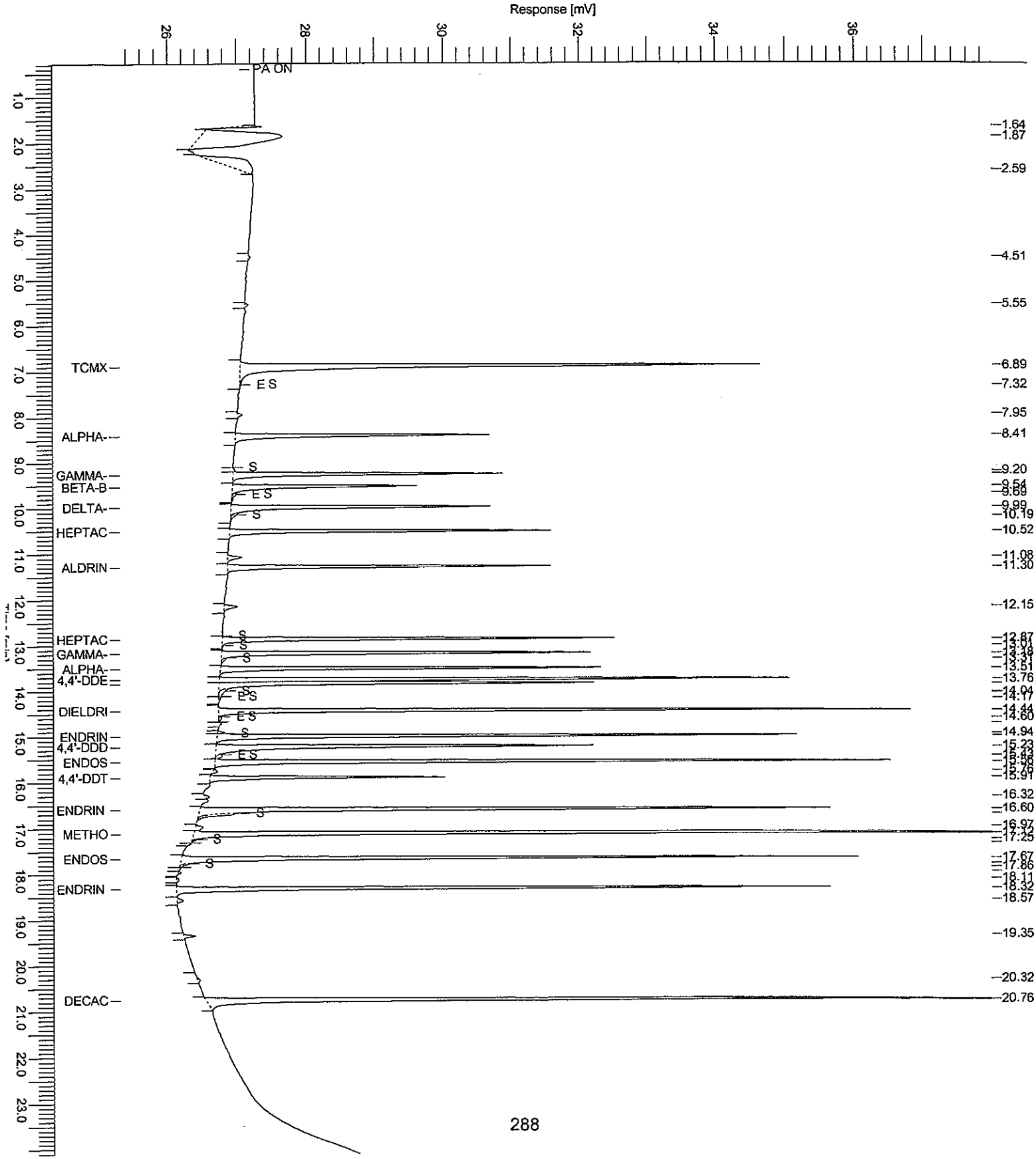
SOB 10/8/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\279a016p.TX0

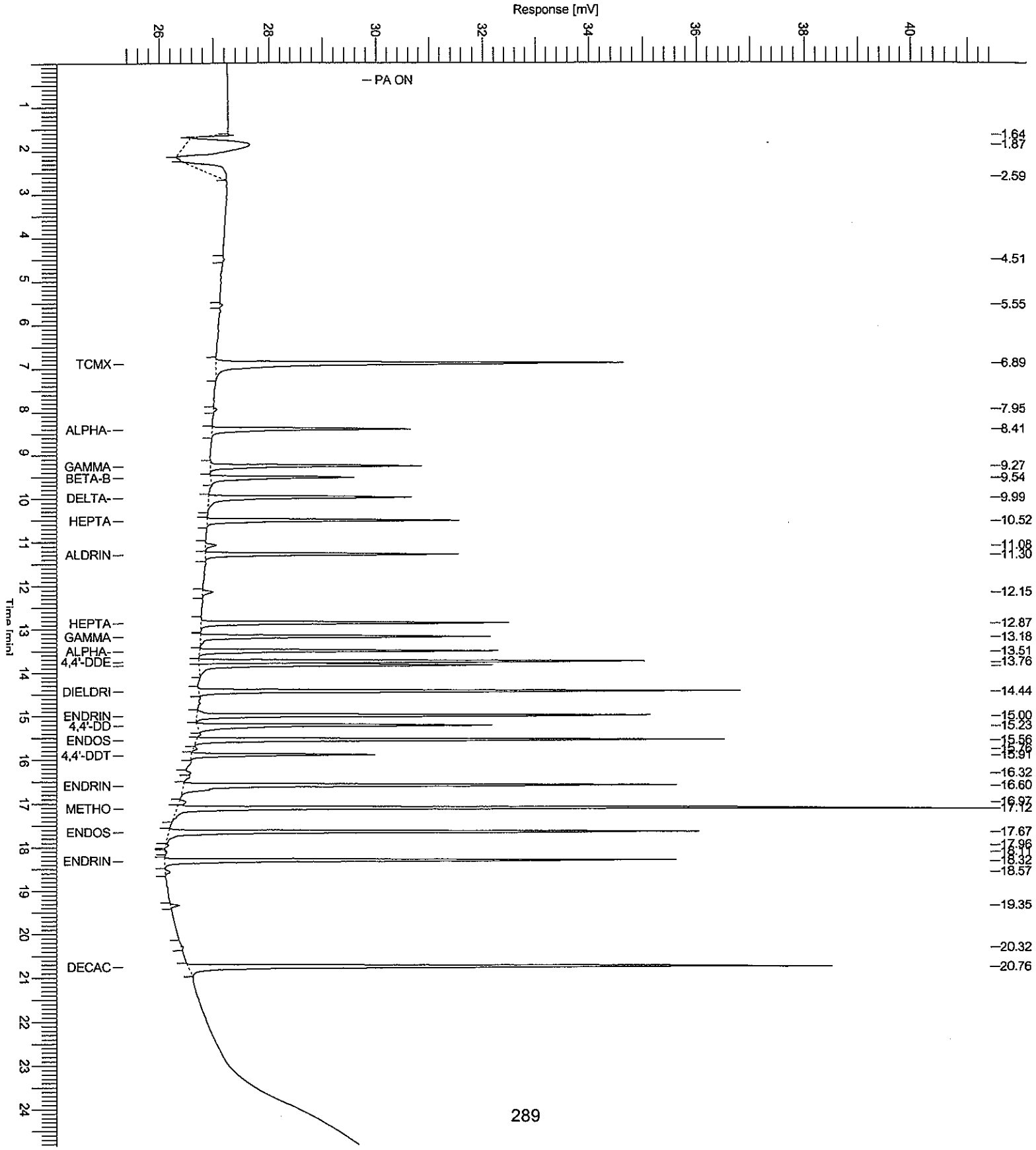
GC16 Rtx-CLPesticides

mple Name : ical,04ws1628,pest_1 Sample #: level 1 Page 1 of 1
eName : g:\gc16\cha\279a016.raw
te : 10/6/04 10:43:49 AM
thod : Time of Injection: 10/5/04 11:14:54 PM
art Time : 0.28 min End Time : 24.12 min Low Point : 25.30 mV High Point : 37.97 mV
ot Offset: 25.30 mV Plot Scale: 12.7 mV



GC16 Rtx-CLPesticides

ample Name : ical,04ws1628,pest_1 Sample #: level 1 Page 1 of 1
ileName : G:\gc16\Cha\279a016.raw
ate : 10/6/04 3:00:22 PM
lethod : gc16 Time of Injection: 10/5/04 11:14:54 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 25.34 mV High Point : 41.44 mV
cale Factor: 1.0 Plot Offset: 25.34 mV Plot Scale: 16.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : GC16
Rack/Vial : 1/16
Sample Amount : 1.000000
Cycle : 16

Date : 10/6/04 11:26:33 AM
Data Acquisition Time : 10/5/04 11:14:54 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b016p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.864	121776.84	4.7269	1.000	1	4.73
alpha-BHC	8.529	67584.49	1.9326	1.000	1	1.93
gamma-BHC	9.484	66017.39	2.0377	1.000	1	2.04
beta-BHC	9.732	46963.38	2.5906	1.000	1	2.59
delta-BHC	10.496	77389.88	2.1758	1.000	1	2.18
Heptachlor	10.631	47642.56	2.2446	1.000	1	2.24
Aldrin	11.454	65905.93	2.1546	1.000	1	2.15
Heptachlor epoxide	12.925	70378.73	2.3952	1.000	1	2.40
gamma-Chlordane	13.400	73302.92	2.3247	1.000	1	2.32
alpha-Chlordane	13.770	73104.34	2.3611	1.000	1	2.36
Endosulfan I	13.884	66032.54	2.3414	1.000	1	2.34
4,4'-DDE	14.244	111903.28	4.1529	1.000	1	4.15
Dieldrin	14.563	124790.00	4.5054	1.000	1	4.51
Endrin	15.299	103808.93	4.7131	1.000	1	4.71
4,4'-DDD	15.657	79323.84	4.6321	1.000	1	4.63
Endosulfan II	15.825	124372.56	5.1196	1.000	1	5.12
4,4'-DDT	16.412	50499.59	3.7955	1.000	1	3.80
Endrin aldehyde	16.656	101655.32	5.4866	1.000	1	5.49
Endosulfan sulfate	17.325	117011.03	5.1000	1.000	1	5.10
Methoxychlor	18.117	139943.82	25.0607	1.000	1	25.06
Endrin ketone	18.593	113252.68	5.2640	1.000	1	5.26
Decachlorobiphenyl	21.624	98972.37	5.6007	1.000	1	5.60
		1941632.44	100.7158			100.72

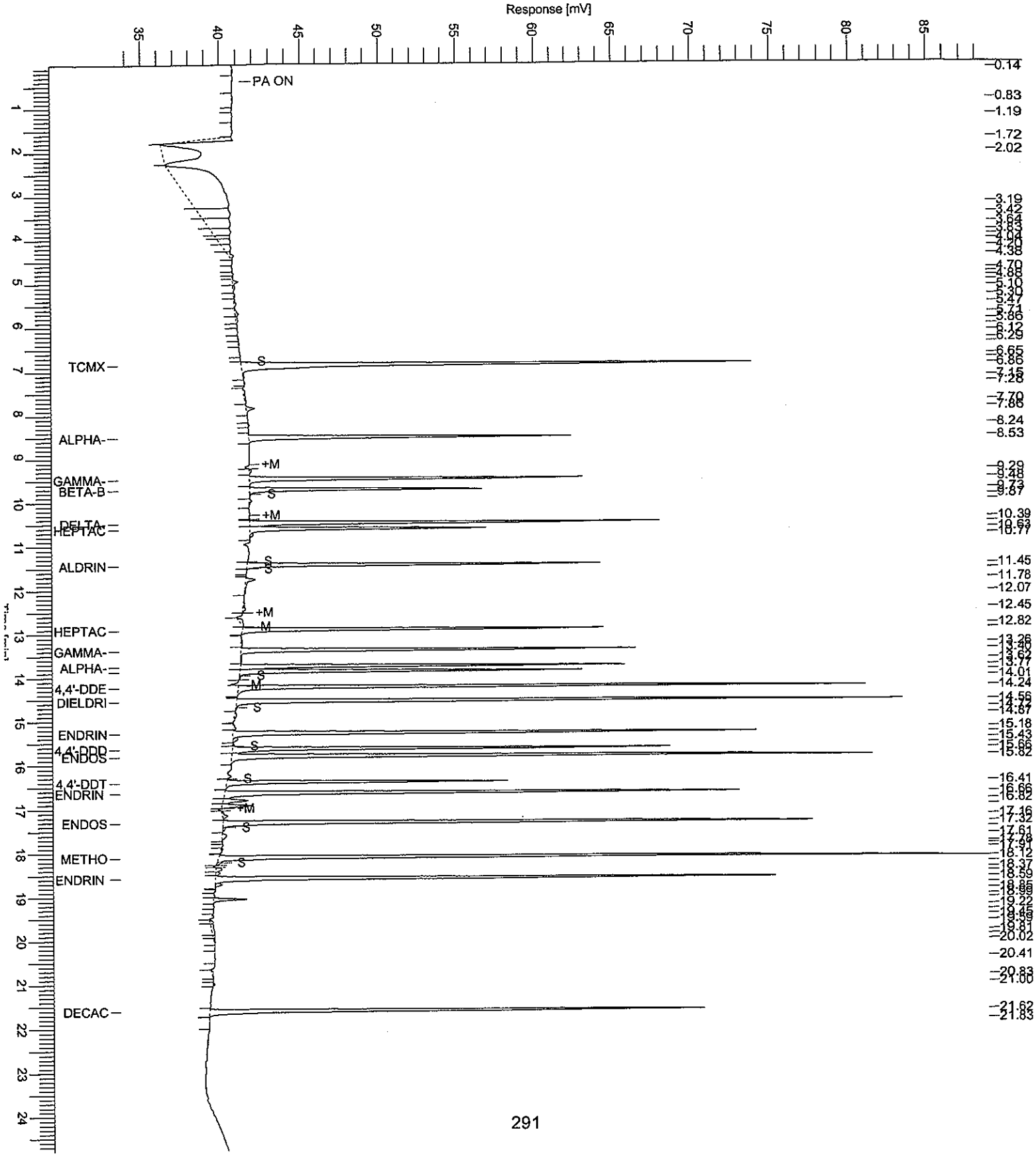
SJ 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\279b016p.TX0

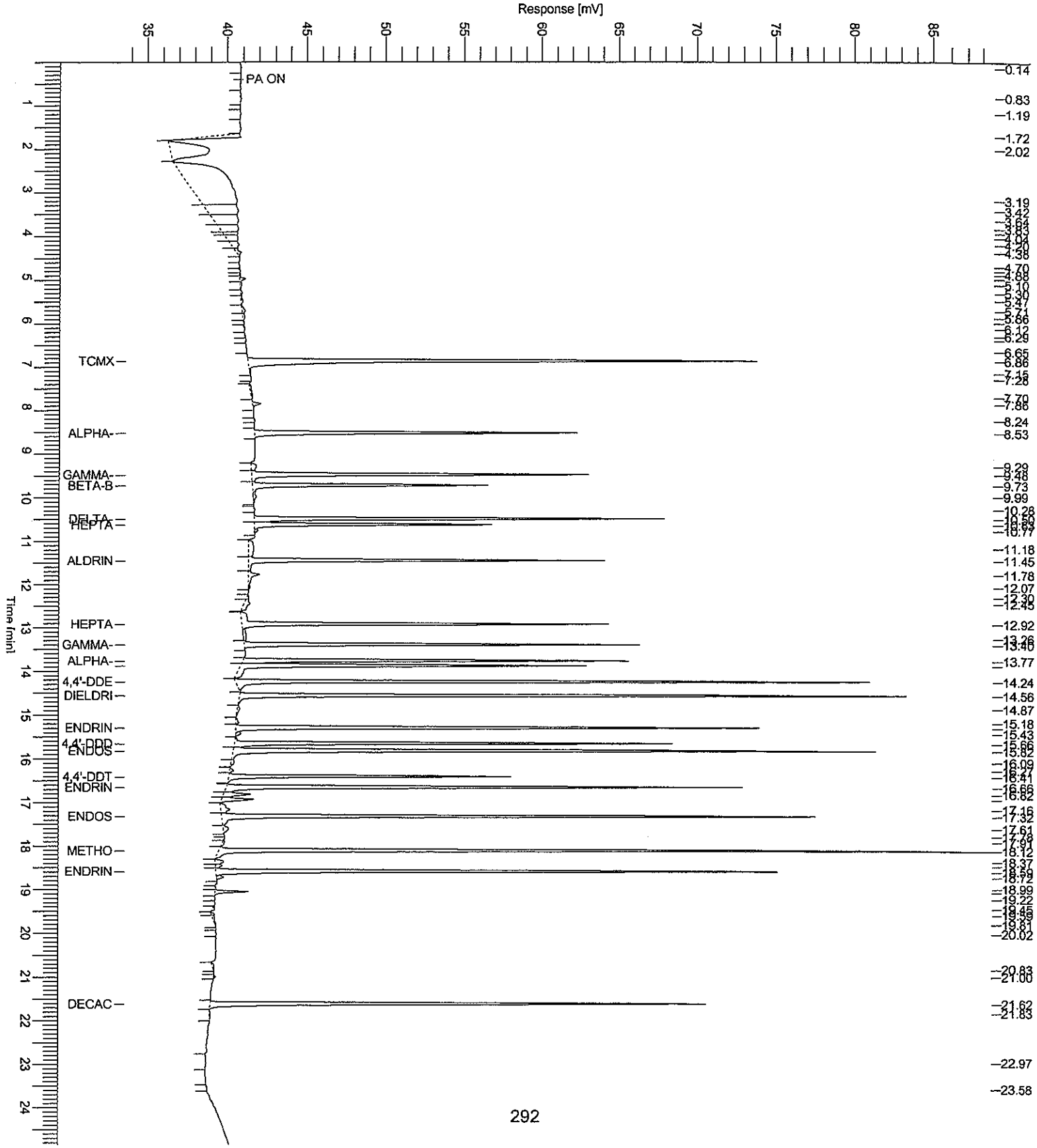
GC16 Rtx-CLPesticides2

ımple Name : ical,04ws1628,pest_1 Sample #: level 1 Page 1 of 1
:eName : g:\gc16\chb\279b016.raw
ıte : 10/6/04 11:26:38 AM
ethod :
Time of Injection: 10/5/04 11:14:54 PM
art Time : 0.01 min End Time : 24.80 min Low Point : 33.50 mV High Point : 88.72 mV
ot Offset: 33.50 mV Plot Scale: 55.2 mV



GC16 Rtx-CLPesticides2

ample Name : ical,04ws1628,pest_1 Sample #: level 1 Page 1 of 1
ileName : G:\gc16\Chb\279b016
ate : 10/6/04 3:00:50 PM
lethod : gc16 Time of Injection: 10/5/04 11:14:54 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 33.63 mV High Point : 88.72 mV
cale Factor: 1.0 Plot Offset: 33.63 mV Plot Scale: 55.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : GC16
Rack/Vial : 1/17
Sample Amount : 1.000000
Cycle : 17

Date : 10/6/04 12:32:00 PM
Data Acquisition Time : 10/5/04 11:45:07 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a017p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.895	85157.26	10.2179	1.000	1	10.22
alpha-BHC	8.414	36014.44	4.3956	1.000	1	4.40
gamma-BHC	9.269	36962.90	4.5029	1.000	1	4.50
beta-BHC	9.535	24867.52	4.8428	1.000	1	4.84
delta-BHC	9.992	35389.53	3.9679	1.000	1	3.97
Heptachlor	10.522	39771.74	4.7563	1.000	1	4.76
Aldrin	11.295	39211.69	4.6966	1.000	1	4.70
Heptachlor epoxide	12.868	45554.12	5.2102	1.000	1	5.21
gamma-Chlordane	13.182	45535.26	4.9814	1.000	1	4.98
alpha-Chlordane	13.511	46122.61	5.0676	1.000	1	5.07
4,4'-DDE	13.753	75642.77	9.7061	1.000	1	9.71
Endosulfan I	13.842	48041.01	5.1300	1.000	1	5.13
Dieldrin	14.441	83740.66	10.2439	1.000	1	10.24
Endrin	15.004	72615.34	10.2861	1.000	1	10.29
4,4'-DDD	15.230	54711.74	9.7035	1.000	1	9.70
Endosulfan II	15.563	82760.36	10.7999	1.000	1	10.80
4,4'-DDT	15.906	33856.59	7.4313	1.000	1	7.43
Endrin aldehyde	16.602	73185.66	11.2630	1.000	1	11.26
Methoxychlor	17.121	127389.67	57.4592	1.000	1	57.46
Endosulfan sulfate	17.665	76816.66	11.1089	1.000	1	11.11
Endrin ketone	18.321	80944.21	10.6937	1.000	1	10.69
Decachlorobiphenyl	20.764	96779.77	12.3735	1.000	1	12.37
		1341071.51	218.8383			218.84

SOB 10/6/04

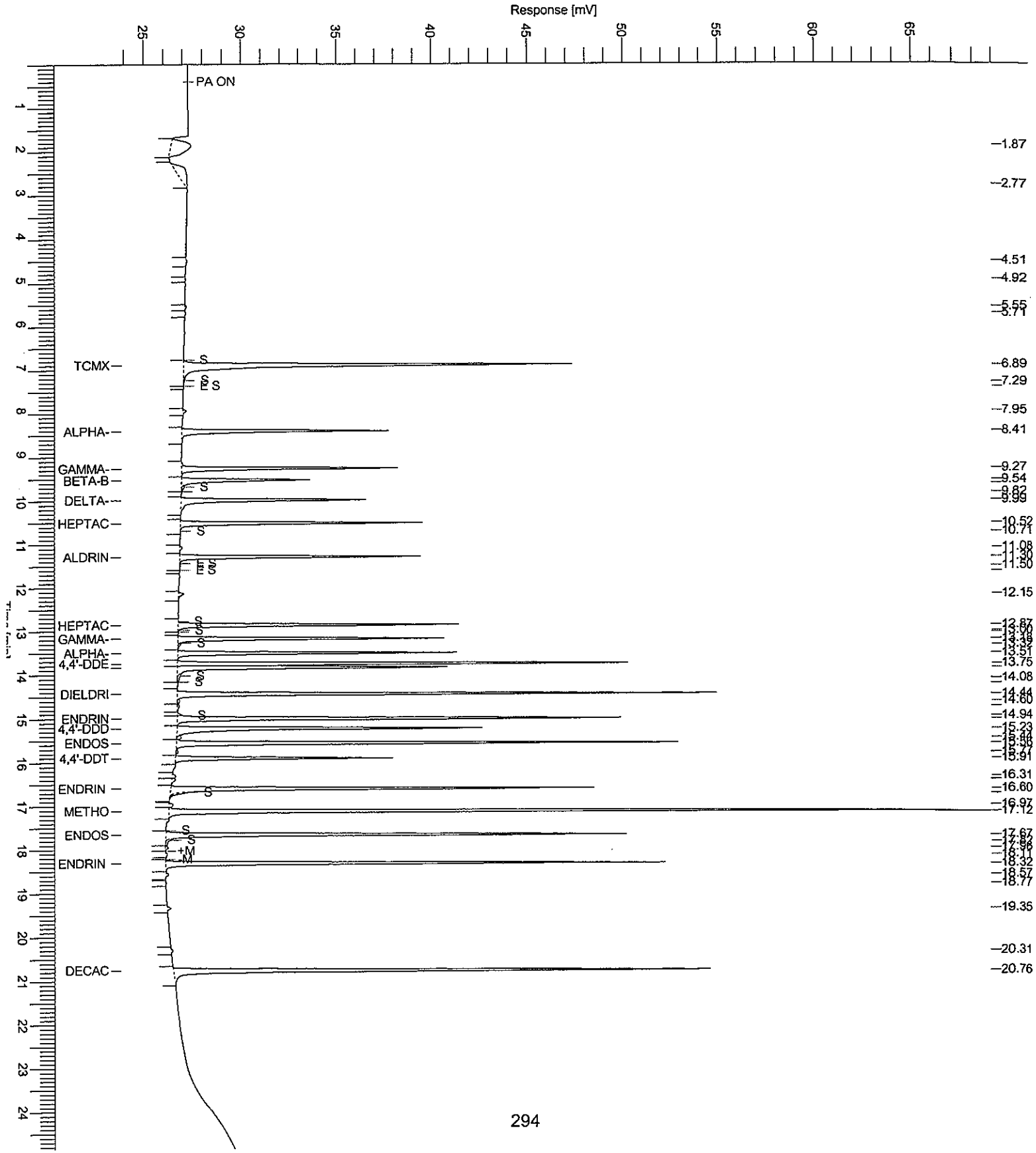
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\279a017p.TX0

GC16 Rtx-CLPesticides

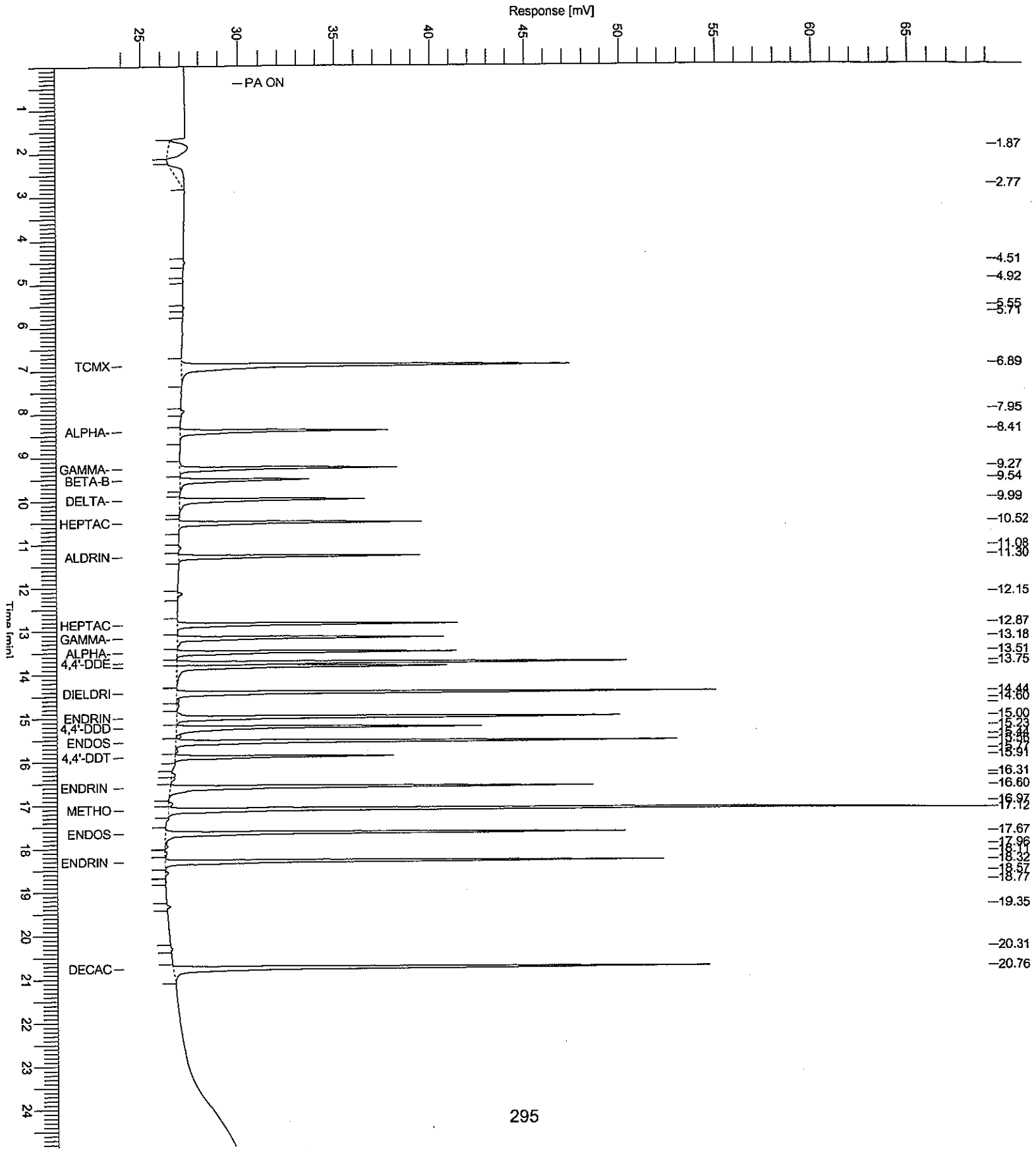
ımple Name : ical,04ws1629,pest_2 Sample #: level 2 Page 1 of 1
eName : g:\gc16\cha\279a017.raw
ıte : 10/6/04 12:32:05 PM
ethod :
ert Time : 0.00 min End Time : 24.85 min Low Point : 23.87 mV High Point : 69.05 mV
ot Offset: 23.87 mV Plot Scale: 45.2 mV

Time of Injection: 10/5/04 11:45:07 PM



GC16 Rtx-CLPesticides

ample Name : ical,04ws1629,pest_2 Sample #: level 2 Page 1 of 1
leName : G:\gc16\Cha\279a017.raw
ate : 10/6/04 3:00:26 PM
ethod : gc16 Time of Injection: 10/5/04 11:45:07 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 23.98 mV High Point : 69.05 mV
cale Factor: 1.0 Plot Offset: 23.98 mV Plot Scale: 45.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : GC16
Rack/Vial : 1/17
Sample Amount : 1.000000
Cycle : 17

Date : 10/6/04 11:31:14 AM
Data Acquisition Time : 10/5/04 11:45:07 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b017p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.864	289479.57	11.2364	1.000	1	11.24
alpha-BHC	8.530	180671.22	5.1664	1.000	1	5.17
gamma-BHC	9.485	171735.02	5.3007	1.000	1	5.30
beta-BHC	9.731	103781.13	5.7247	1.000	1	5.72
delta-BHC	10.496	182060.04	5.1185	1.000	1	5.12
Heptachlor	10.631	117642.65	5.5427	1.000	1	5.54
Aldrin	11.454	166748.26	5.4512	1.000	1	5.45
Heptachlor epoxide	12.924	170202.39	5.7924	1.000	1	5.79
gamma-Chlordane	13.399	176901.19	5.6101	1.000	1	5.61
alpha-Chlordane	13.769	176929.82	5.7144	1.000	1	5.71
Endosulfan I	13.884	159945.36	5.6715	1.000	1	5.67
4,4'-DDE	14.243	299469.81	11.1138	1.000	1	11.11
Dieldrin	14.563	314342.21	11.3490	1.000	1	11.35
Endrin	15.299	260628.21	11.8329	1.000	1	11.83
4,4'-DDD	15.656	213494.09	12.4670	1.000	1	12.47
Endosulfan II	15.824	295076.30	12.1463	1.000	1	12.15
4,4'-DDT	16.412	140071.63	10.5275	1.000	1	10.53
Endrin aldehyde	16.655	229791.11	12.4025	1.000	1	12.40
Endosulfan sulfate	17.324	264354.25	11.5222	1.000	1	11.52
Methoxychlor	18.116	340197.40	60.9214	1.000	1	60.92
Endrin ketone	18.592	270811.24	12.5874	1.000	1	12.59
Decachlorobiphenyl	21.623	219333.93	12.4119	1.000	1	12.41
		4743666.82	245.6110			245.61

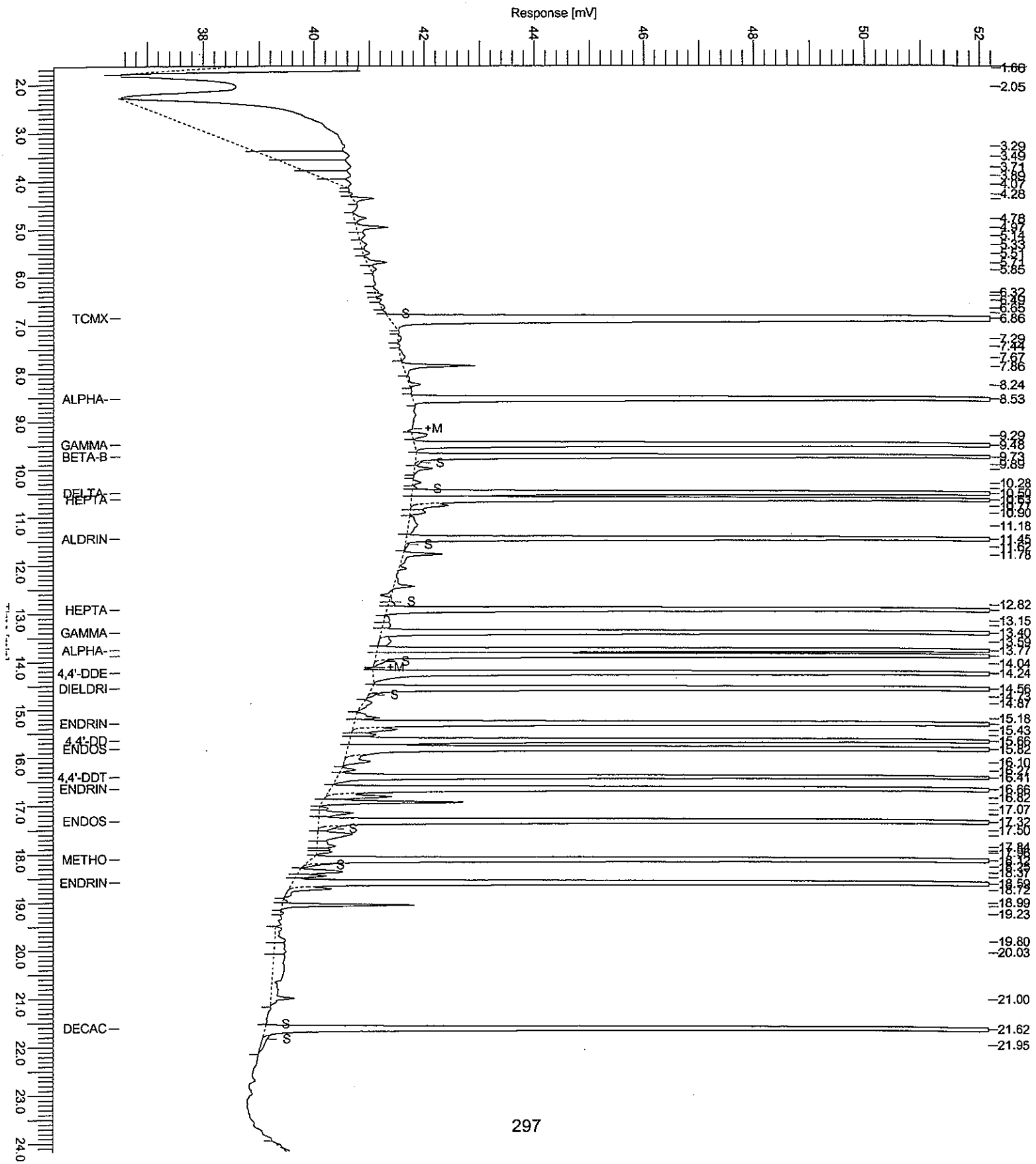
SOB 16/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\279b017p.TX0

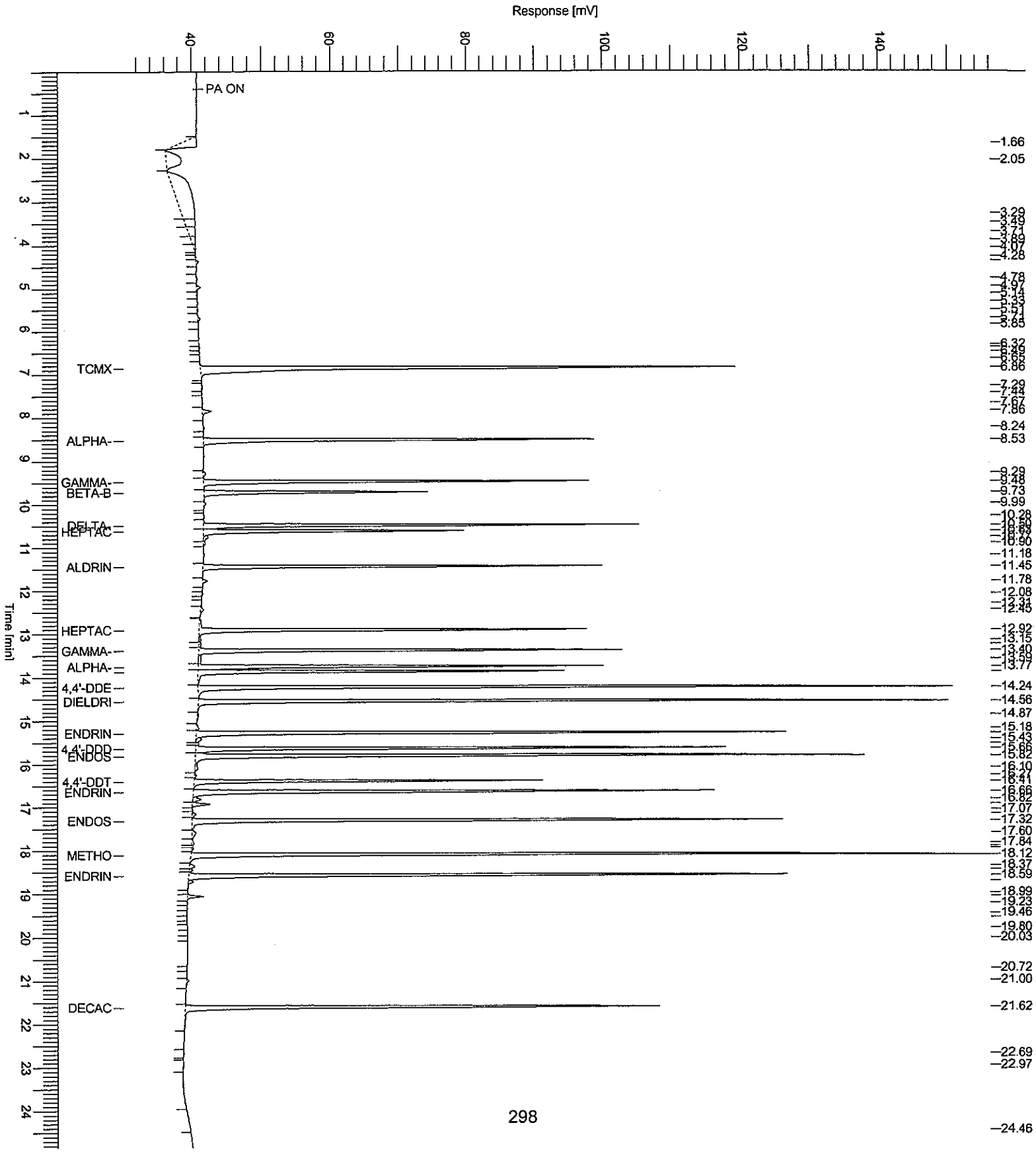
GC16 Rtx-CLPesticides2

ımple Name : ical,04ws1629,pest_2 Sample #: level 2 Page 1 of 1
eName : g:\gc16\chb\279b017.raw
ıte : 10/6/04 11:31:19 AM
ethod :
Time of Injection: 10/5/04 11:45:07 PM
art Time : 1.63 min End Time : 24.17 min Low Point : 36.53 mV High Point : 52.20 mV
ot Offset: 36.53 mV Plot Scale: 15.7 mV



GC16 Rtx-CLPesticides2

ample Name : ical,04ws1629,pest_2 Sample #: level 2 Page 1 of 1
ileName : G:\gc16\Chb\279b017
ate : 10/6/04 3:00:54 PM
lethod : gc16 Time of Injection: 10/5/04 11:45:07 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 30.23 mV High Point : 156.29 mV
cale Factor: 1.0 Plot Offset: 30.23 mV Plot Scale: 126.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1630,pest_3
Instrument Name : GC16
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 10/6/04 12:28:36 PM
Data Acquisition Time : 10/6/04 12:15:20 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a018p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.904	158373.35	19.0031	1.000	1	19.00
alpha-BHC	8.419	72315.89	8.8263	1.000	1	8.83
gamma-BHC	9.276	72938.31	8.8855	1.000	1	8.89
beta-BHC	9.540	43892.12	8.5478	1.000	1	8.55
delta-BHC	9.999	65676.35	7.3637	1.000	1	7.36
Heptachlor	10.524	72695.17	8.6936	1.000	1	8.69
Aldrin	11.298	72294.02	8.6590	1.000	1	8.66
Heptachlor epoxide	12.870	81278.94	9.2963	1.000	1	9.30
gamma-Chlordane	13.184	81505.05	8.9163	1.000	1	8.92
alpha-Chlordane	13.515	82754.12	9.0925	1.000	1	9.09
4,4'-DDE	13.756	140603.70	18.0415	1.000	1	18.04
Endosulfan I	13.843	86283.35	9.2137	1.000	1	9.21
Dieldrin	14.442	153587.74	18.7883	1.000	1	18.79
Endrin	15.005	129898.72	18.4004	1.000	1	18.40
4,4'-DDD	15.231	101736.30	18.0436	1.000	1	18.04
Endosulfan II	15.564	147197.25	19.2086	1.000	1	19.21
4,4'-DDT	15.907	68967.46	15.1378	1.000	1	15.14
Endrin aldehyde	16.602	128178.93	19.7263	1.000	1	19.73
Methoxychlor	17.121	225095.49	101.5294	1.000	1	101.53
Endosulfan sulfate	17.665	134452.32	19.4439	1.000	1	19.44
Endrin ketone	18.321	149096.25	19.6974	1.000	1	19.70
Decachlorobiphenyl	20.763	162957.83	20.8345	1.000	1	20.83
		2431778.67	395.3494			395.35

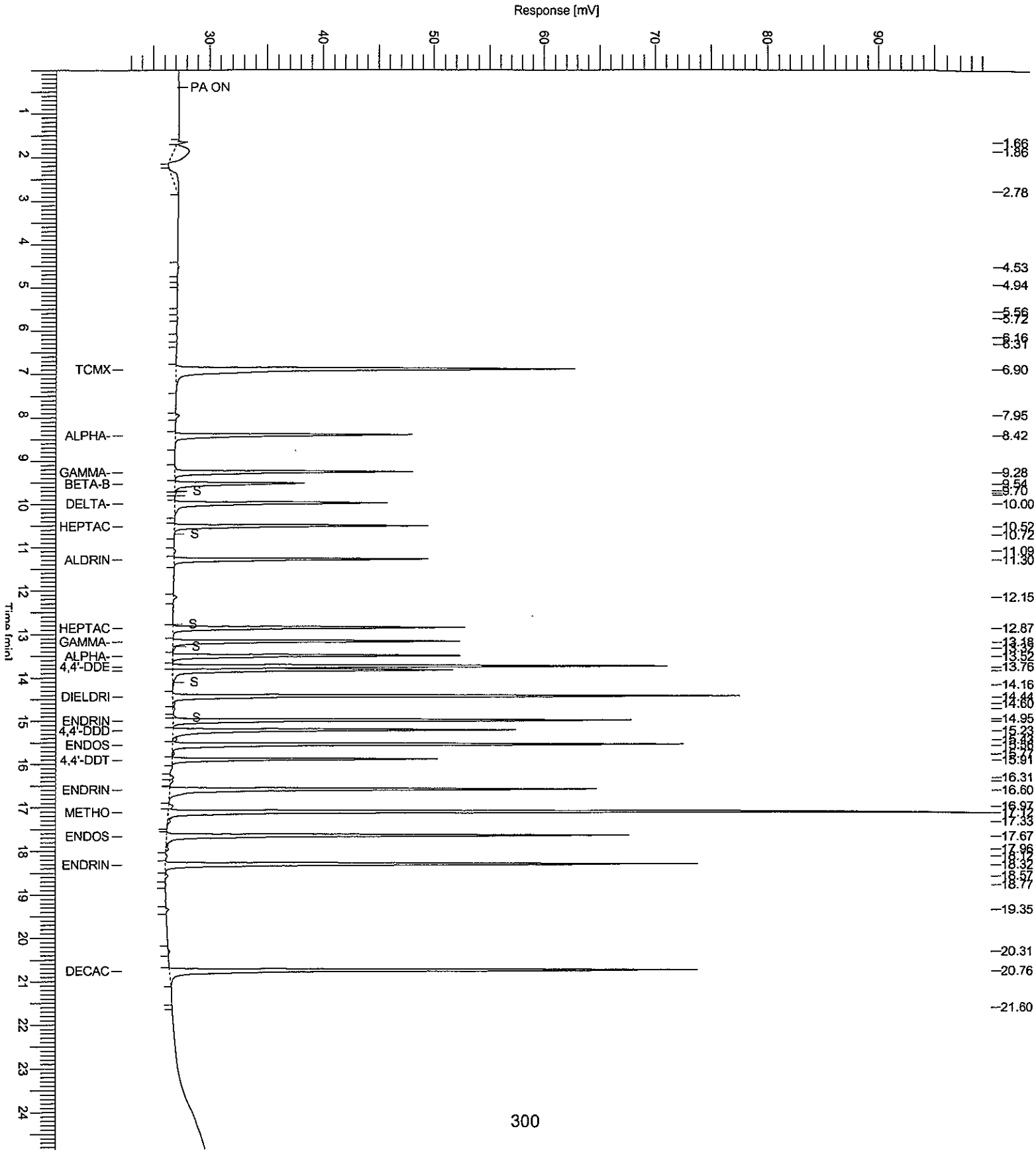
SOB 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\279a018p.TX0

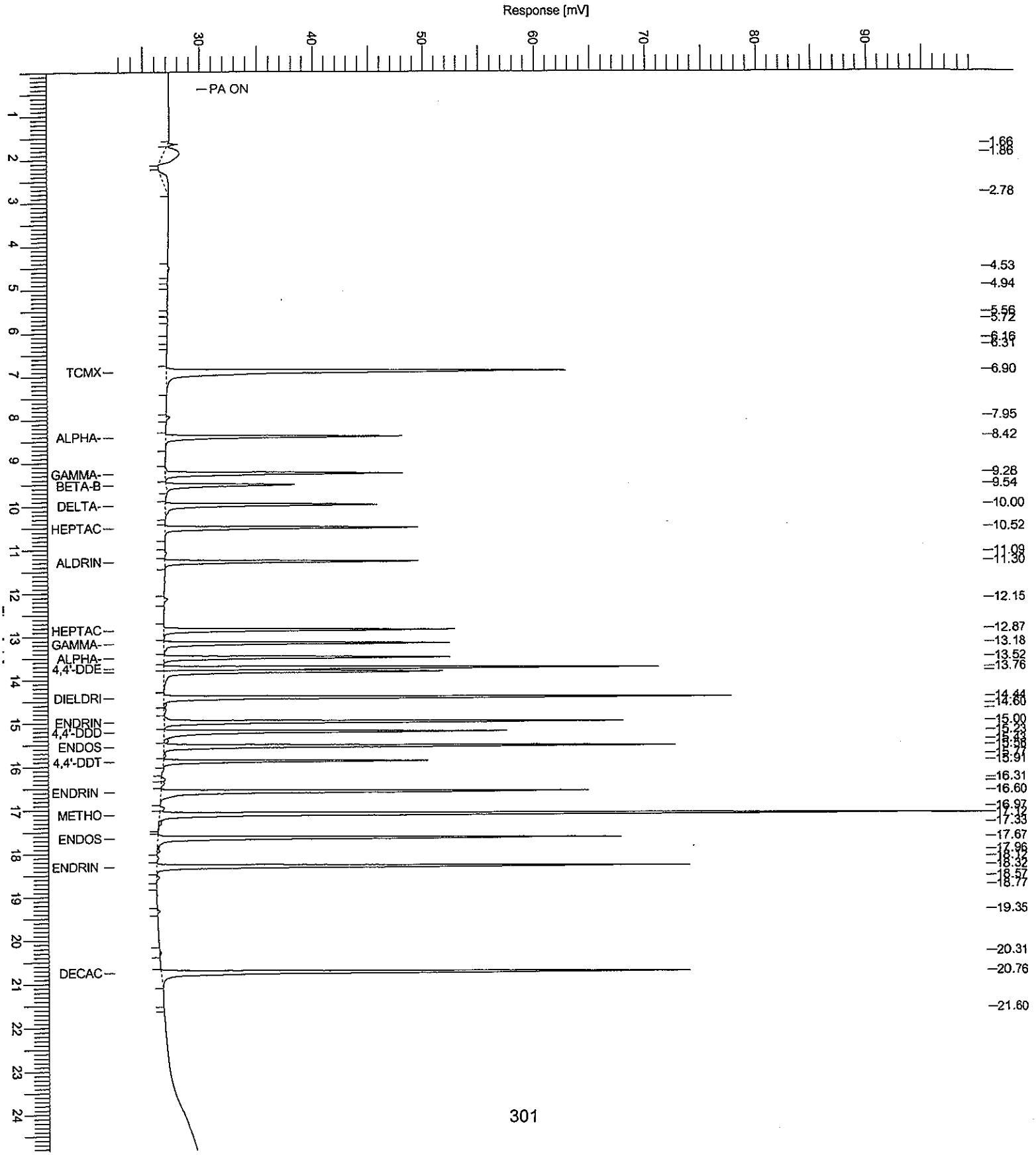
GC16 Rtx-CLPesticides

ample Name : ical,04ws1630,pest_3 Sample #: level 3 Page 1 of 1
leName : g:\gc16\cha\279a018.raw
ate : 10/6/04 12:29:09 PM
ethod :
Time of Injection: 10/6/04 12:15:20 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 22.28 mV High Point : 99.90 mV
lot Offset: 22.28 mV Plot Scale: 77.6 mV



GC16 Rtx-CLPesticides

nple Name : ical,04ws1630,pest_3 Sample #: level 3 Page 1 of 1
Name : G:\gc16\Cha\279a018.raw
te : 10/6/04 3:00:29 PM
thod : gc16 Time of Injection: 10/6/04 12:15:20 AM
rt Time : 0.00 min End Time : 24.85 min Low Point : 22.48 mV High Point : 99.90 mV
ale Factor: 1.0 Plot Offset: 22.48 mV Plot Scale: 77.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1630,pest_3
Instrument Name : GC16
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 10/6/04 11:35:46 AM
Data Acquisition Time : 10/6/04 12:15:20 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b018p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.867	503787.77	19.5550	1.000	1	19.55
alpha-BHC	8.534	338605.65	9.6826	1.000	1	9.68
gamma-BHC	9.491	312502.38	9.6456	1.000	1	9.65
beta-BHC	9.735	171893.74	9.4819	1.000	1	9.48
delta-BHC	10.498	317228.91	8.9186	1.000	1	8.92
Heptachlor	10.636	204795.14	9.6488	1.000	1	9.65
Aldrin	11.456	296748.19	9.7011	1.000	1	9.70
Heptachlor epoxide	12.926	288017.12	9.8019	1.000	1	9.80
gamma-Chlordane	13.401	303381.38	9.6212	1.000	1	9.62
alpha-Chlordane	13.770	301047.08	9.7232	1.000	1	9.72
Endosulfan I	13.885	271398.14	9.6234	1.000	1	9.62
4,4'-DDE	14.240	526591.83	19.5427	1.000	1	19.54
Dieldrin	14.560	543453.43	19.6208	1.000	1	19.62
Endrin	15.307	439090.38	19.9354	1.000	1	19.94
4,4'-DDD	15.653	369905.55	21.6007	1.000	1	21.60
Endosulfan II	15.827	487888.81	20.0831	1.000	1	20.08
4,4'-DDT	16.413	254381.39	19.1189	1.000	1	19.12
Endrin aldehyde	16.653	376221.61	20.3058	1.000	1	20.31
Endosulfan sulfate	17.320	429684.85	18.7283	1.000	1	18.73
Methoxychlor	18.120	568811.92	101.8610	1.000	1	101.86
Endrin ketone	18.587	454362.47	21.1189	1.000	1	21.12
Decachlorobiphenyl	21.622	359336.98	20.3345	1.000	1	20.33
		8119134.72	417.6533			417.65

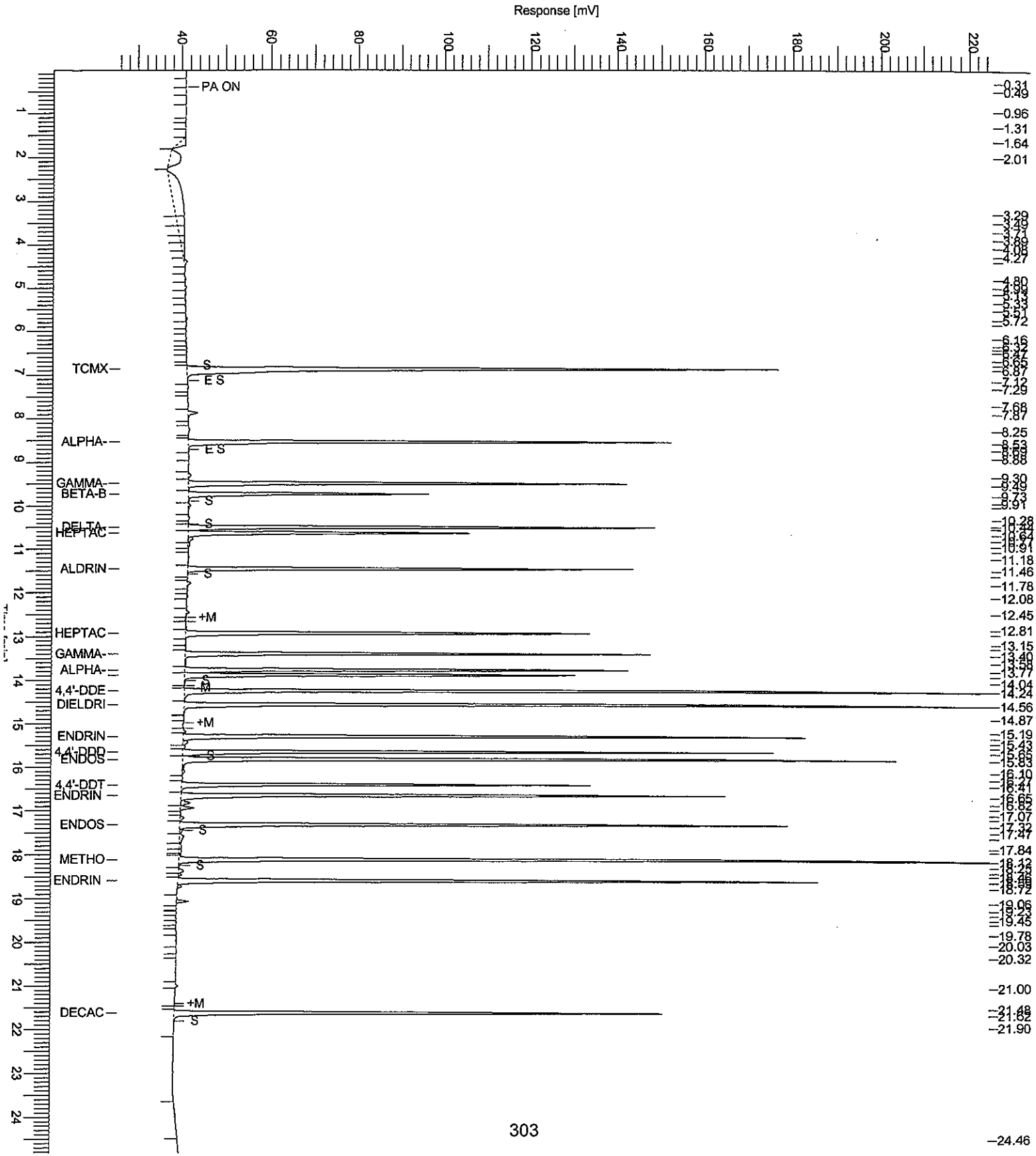
SJB 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\279b018p.TX0

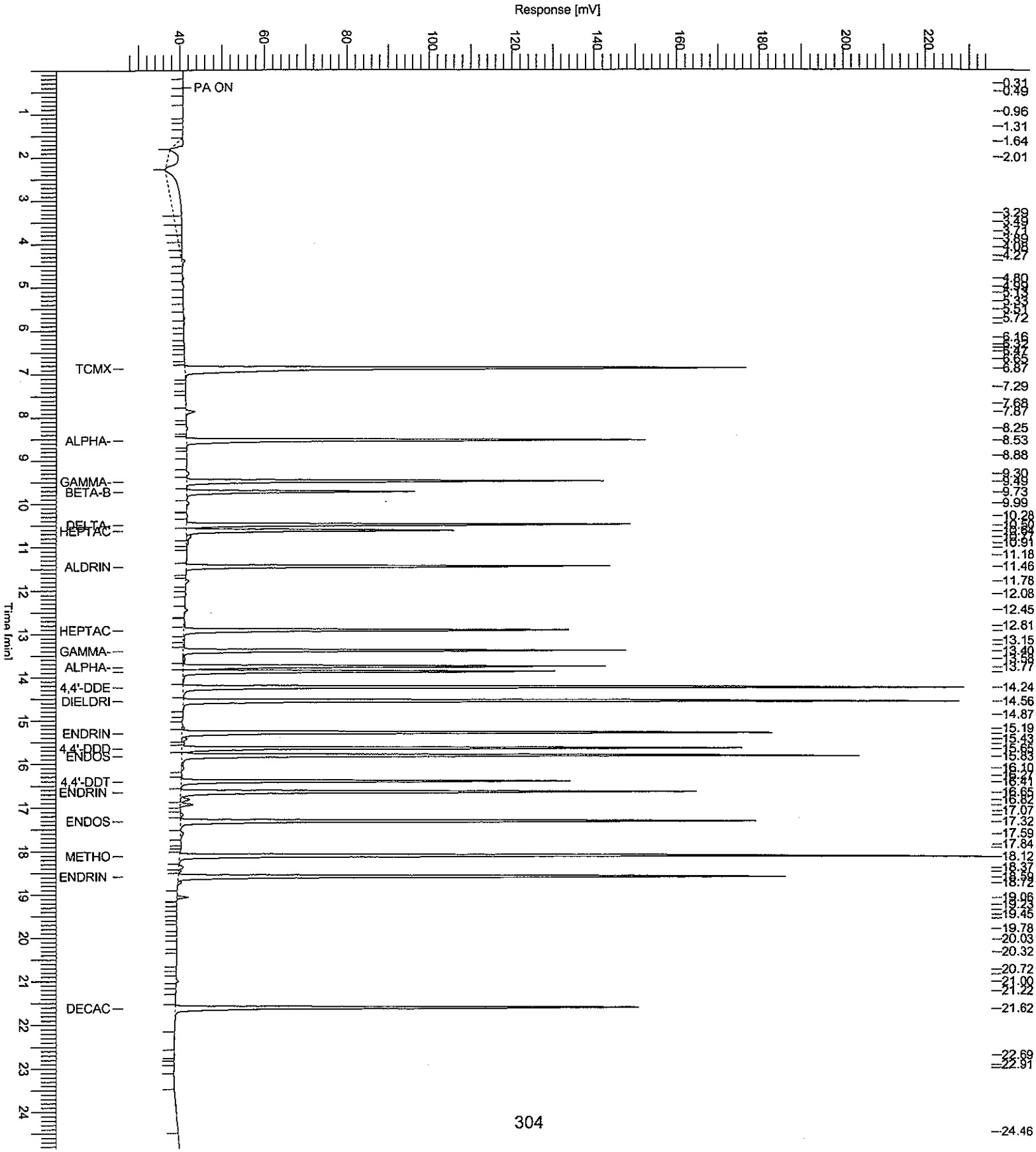
GC16 Rtx-CLPesticides2

ımple Name : ical,04ws1630,pest_3 Sample #: level 3 Page 1 of 1
eName : g:\gc16\chb\279b018.raw
ıte : 10/6/04 11:35:50 AM
ethod : Time of Injection: 10/6/04 12:15:20 AM
art Time : 0.01 min End Time : 24.83 min Low Point : 25.99 mV High Point : 225.41 mV
ot Offset: 25.99 mV Plot Scale: 199.4 mV



GC16 Rtx-CLPesticides2

ample Name : ical,04ws1630,pest_3 Sample #: level 3 Page 1 of 1
ileName : G:\gc16\Chb\279b018
ate : 10/6/04 3:00:56 PM
ethod : gc16 Time of Injection: 10/6/04 12:15:20 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 26.51 mV High Point : 235.82 mV
cale Factor: 1.0 Plot Offset: 26.51 mV Plot Scale: 209.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1632,pest_4
Instrument Name : GC16
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 10/6/04 12:24:40 PM
Data Acquisition Time : 10/6/04 12:45:26 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a019p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.898	325805.35	39.0931	1.000	1	39.09
alpha-BHC	8.417	179264.85	21.8797	1.000	1	21.88
gamma-BHC	9.272	175614.57	21.3938	1.000	1	21.39
beta-BHC	9.537	95576.94	18.6131	1.000	1	18.61
delta-BHC	9.997	159598.24	17.8943	1.000	1	17.89
Heptachlor	10.523	159429.64	19.0663	1.000	1	19.07
Aldrin	11.297	161814.44	19.3812	1.000	1	19.38
Heptachlor epoxide	12.868	171590.26	19.6256	1.000	1	19.63
gamma-Chlordane	13.179	175367.92	19.1845	1.000	1	19.18
alpha-Chlordane	13.512	177055.27	19.4536	1.000	1	19.45
4,4'-DDE	13.752	315390.46	40.4692	1.000	1	40.47
Endosulfan I	13.842	182809.43	19.5211	1.000	1	19.52
Dieldrin	14.441	331109.80	40.5044	1.000	1	40.50
Endrin	15.004	280426.57	39.7229	1.000	1	39.72
4,4'-DDD	15.230	237671.57	42.1526	1.000	1	42.15
Endosulfan II	15.563	309764.63	40.4230	1.000	1	40.42
4,4'-DDT	15.906	180406.97	39.5979	1.000	1	39.60
Endrin aldehyde	16.601	255976.28	39.3938	1.000	1	39.39
Methoxychlor	17.120	456918.05	206.0930	1.000	1	206.09
Endosulfan sulfate	17.664	275482.45	39.8391	1.000	1	39.84
Endrin ketone	18.320	314469.97	41.5453	1.000	1	41.55
Decachlorobiphenyl	20.761	303310.32	38.7789	1.000	1	38.78
		5224853.98	843.6264			843.63

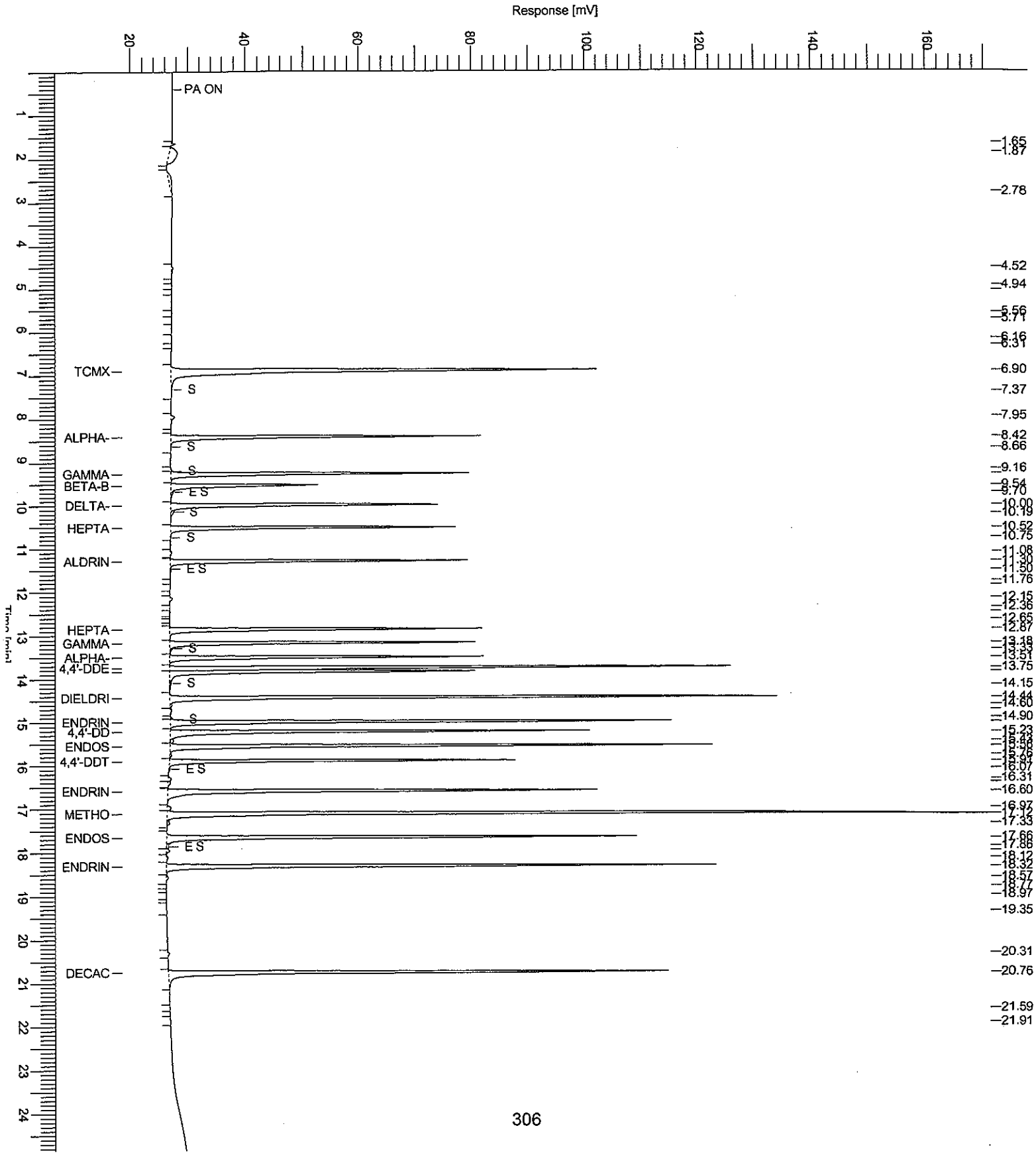
SJD 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\279a019p.TX0

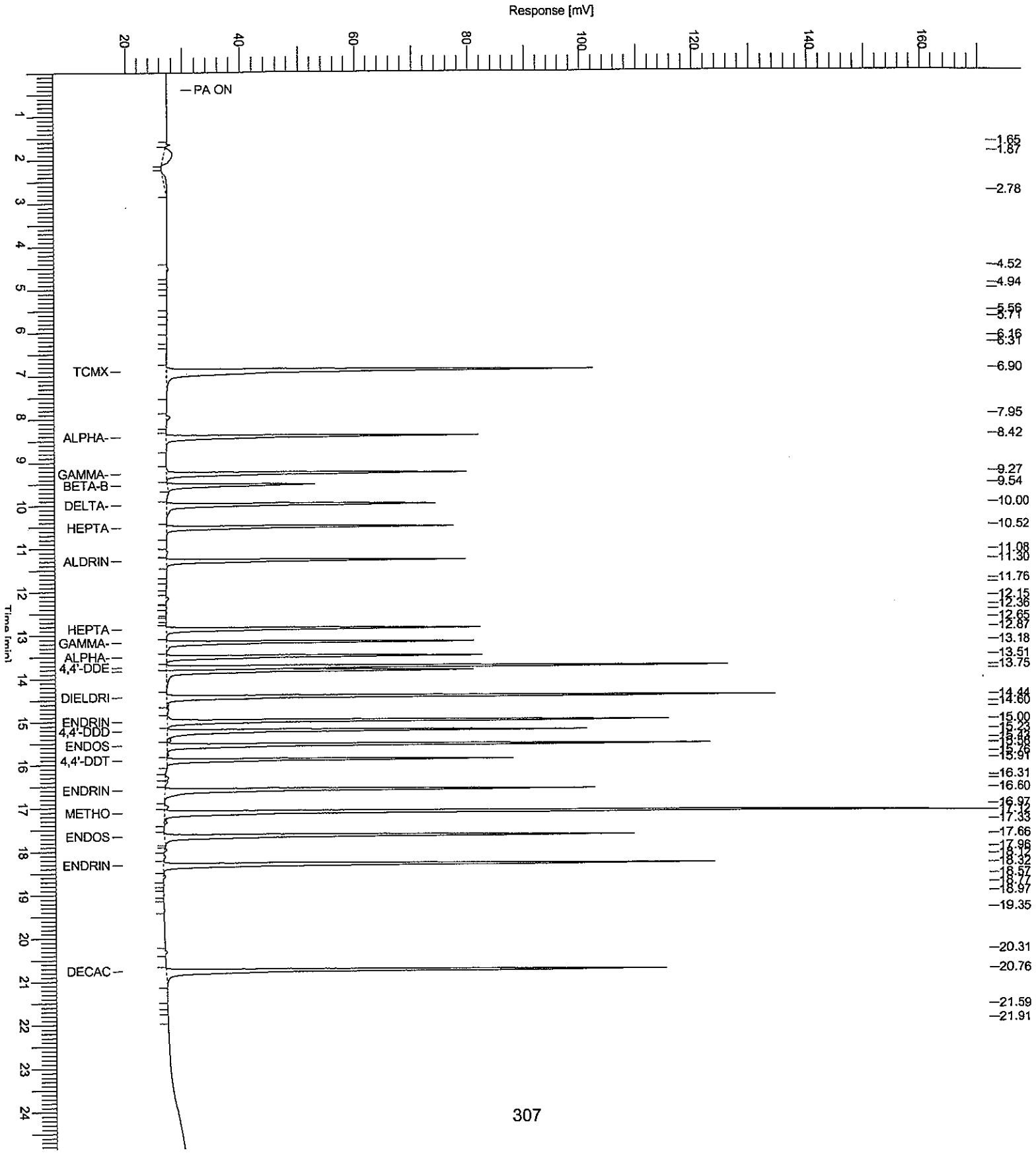
GC16 Rtx-CLPesticides

ample Name : ical,04ws1632,pest_4 Sample #: level 4 Page 1 of 1
leName : g:\gc16\cha\279a019.raw
ate : 10/6/04 12:24:46 PM
ethod :
Time of Injection: 10/6/04 12:45:26 AM
art Time : 0.00 min End Time : 24.85 min Low Point : 18.56 mV High Point : 171.48 mV
ot Offset: 18.56 mV Plot Scale: 152.9 mV



GC16 Rtx-CLPesticides

ample Name : ical,04ws1632,pest_4 Sample #: level 4 Page 1 of 1
ileName : G:\gc16\Cha\279a019.raw
ate : 10/6/04 3:00:32 PM
lethod : gc16 Time of Injection: 10/6/04 12:45:26 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 18.94 mV High Point : 171.48 mV
cale Factor: 1.0 Plot Offset: 18.94 mV Plot Scale: 152.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1632,pest_4
Instrument Name : GC16
Rack/Vial : 1/19
Sample Amount : 1.000000
Cycle : 19

Date : 10/6/04 12:04:14 PM
Data Acquisition Time : 10/6/04 12:45:26 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b019p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.867	972322.17	37.7415	1.000	1	37.74
alpha-BHC	8.533	716033.59	20.4753	1.000	1	20.48
gamma-BHC	9.480	653876.18	20.1824	1.000	1	20.18
beta-BHC	9.733	333322.42	18.3865	1.000	1	18.39
delta-BHC	10.493	666094.29	18.7267	1.000	1	18.73
Heptachlor	10.627	423013.11	19.9300	1.000	1	19.93
Aldrin	11.453	607433.46	19.8579	1.000	1	19.86
Heptachlor epoxide	12.920	561862.78	19.1216	1.000	1	19.12
gamma-Chlordane	13.400	607923.15	19.2791	1.000	1	19.28
alpha-Chlordane	13.773	596937.41	19.2798	1.000	1	19.28
Endosulfan I	13.880	536569.99	19.0261	1.000	1	19.03
4,4'-DDE	14.240	1082827.27	40.1855	1.000	1	40.19
Dieldrin	14.560	1077521.48	38.9028	1.000	1	38.90
Endrin	15.293	877447.75	39.8375	1.000	1	39.84
4,4'-DDD	15.653	752909.64	43.9664	1.000	1	43.97
Endosulfan II	15.827	925673.14	38.1038	1.000	1	38.10
4,4'-DDT	16.413	565554.22	42.5061	1.000	1	42.51
Endrin aldehyde	16.653	721698.32	38.9522	1.000	1	38.95
Endosulfan sulfate	17.320	827845.24	36.0825	1.000	1	36.08
Methoxychlor	18.120	1148205.64	205.6169	1.000	1	205.62
Endrin ketone	18.587	890858.01	41.4073	1.000	1	41.41
Decachlorobiphenyl	21.613	667795.35	37.7898	1.000	1	37.79
		16213724.61	835.3576			835.36

SOD 10/6/04

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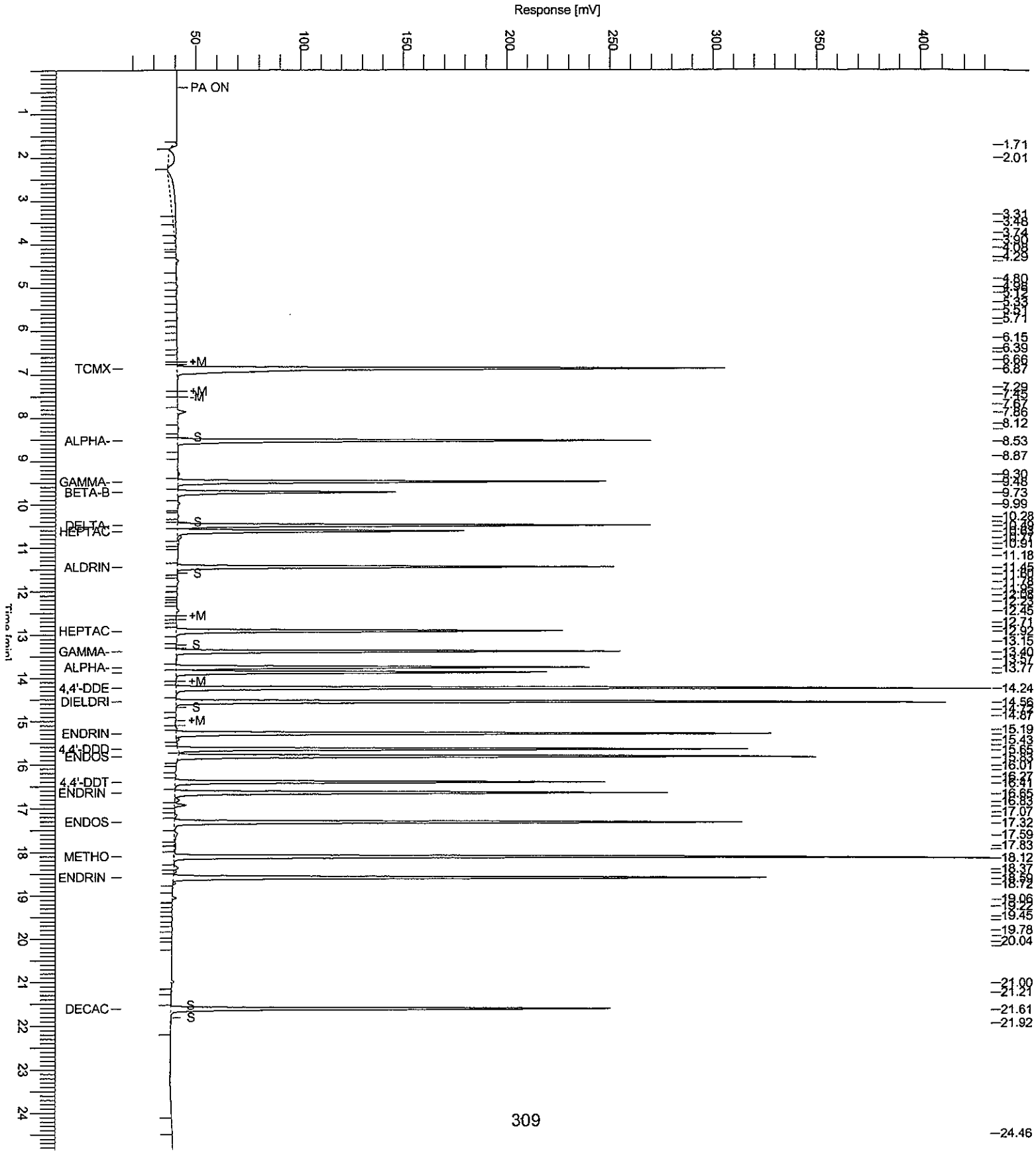
Report stored in ASCII file: G:\gc16\chb\279b019p.TX0

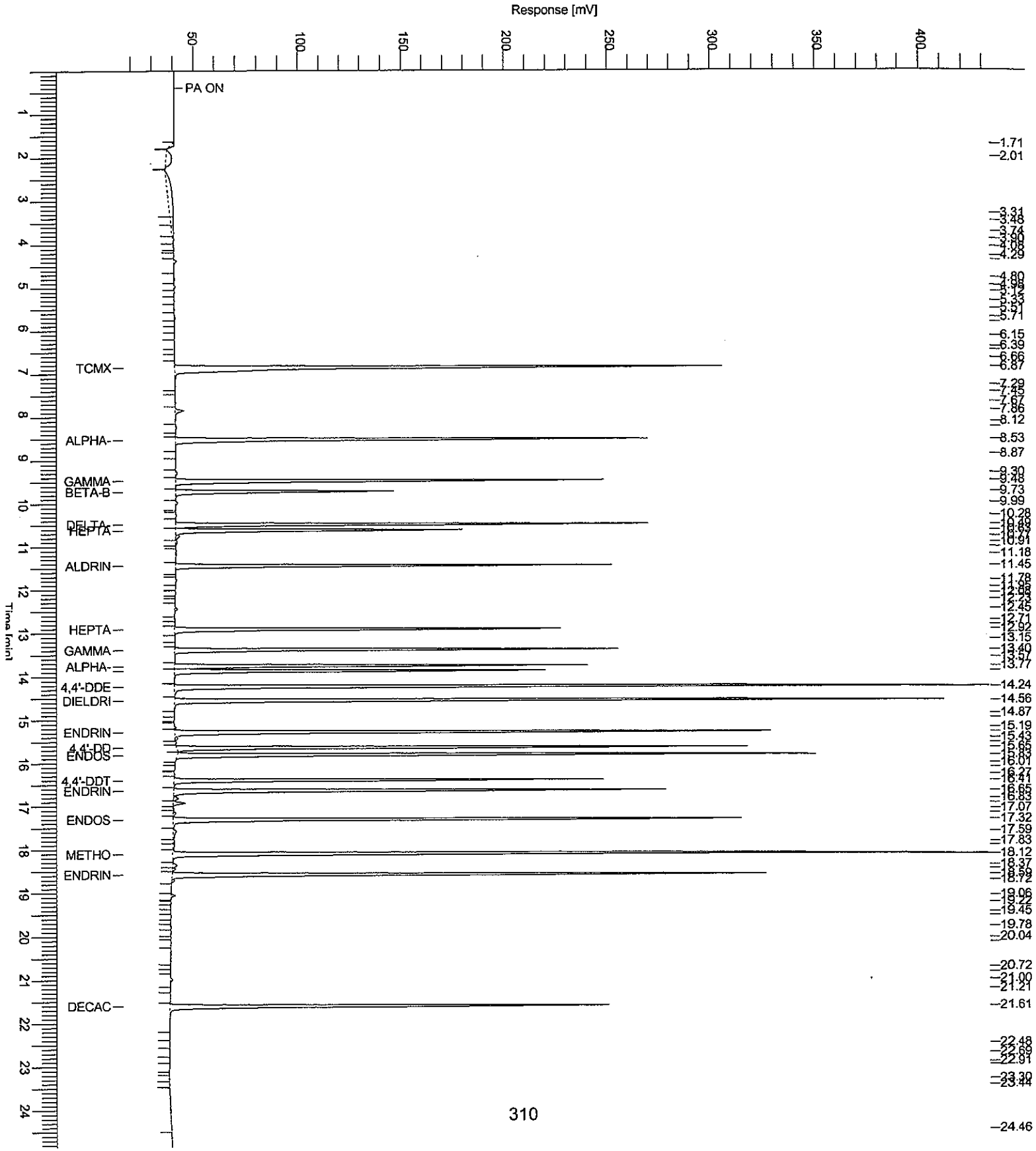
GC16 Rtx-CLPesticides2

ample Name : ical,04ws1632,pest_4 Sample #: level 4 Page 1 of 1
ileName : g:\gc16\chb\279b019.raw
ate : 10/6/04 12:11:06 PM
lethod : Time of Injection: 10/6/04 12:45:26 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 15.50 mV High Point : 433.76 mV
lot Offset: 15.50 mV Plot Scale: 418.3 mV



GC16 Rtx-CLPesticides2

ample Name : ical,04ws1632,pest_4 Sample #: level 4 Page 1 of 1
ileName : G:\gc16\Chb\279b019
ate : 10/6/04 3:01:00 PM
lethod : gc16 Time of Injection: 10/6/04 12:45:26 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 16.55 mV High Point : 433.76 mV
cale Factor: 1.0 Plot Offset: 16.55 mV Plot Scale: 417.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1633,pest_5
Instrument Name : GC16
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 10/6/04 11:00:26 AM
Data Acquisition Time : 10/6/04 1:15:46 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a020p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.899	426598.31	51.1871	1.000	1	51.19
alpha-BHC	8.417	250229.21	30.5411	1.000	1	30.54
gamma-BHC	9.271	241568.57	29.4285	1.000	1	29.43
beta-BHC	9.536	126556.59	24.6463	1.000	1	24.65
delta-BHC	9.996	220582.16	24.7318	1.000	1	24.73
Heptachlor	10.521	214800.21	25.6880	1.000	1	25.69
Aldrin	11.295	218396.89	26.1584	1.000	1	26.16
Heptachlor epoxide	12.867	223136.51	25.5212	1.000	1	25.52
gamma-Chlordane	13.178	230803.80	25.2489	1.000	1	25.25
alpha-Chlordane	13.510	231671.41	25.4545	1.000	1	25.45
4,4'-DDE	13.750	416880.64	53.4918	1.000	1	53.49
Endosulfan I	13.840	235112.31	25.1062	1.000	1	25.11
Dieldrin	14.440	428508.73	52.4192	1.000	1	52.42
Endrin	15.002	364075.04	51.5719	1.000	1	51.57
4,4'-DDD	15.228	308344.56	54.6870	1.000	1	54.69
Endosulfan II	15.561	396730.48	51.7716	1.000	1	51.77
4,4'-DDT	15.904	251188.45	55.1339	1.000	1	55.13
Endrin aldehyde	16.600	327504.99	50.4019	1.000	1	50.40
Methoxychlor	17.120	580710.63	261.9297	1.000	1	261.93
Endosulfan sulfate	17.663	350967.80	50.7554	1.000	1	50.76
Endrin ketone	18.319	399894.98	52.8309	1.000	1	52.83
Decachlorobiphenyl	20.761	379744.24	48.5511	1.000	1	48.55
		6824006.50	1097.2564			1097.26

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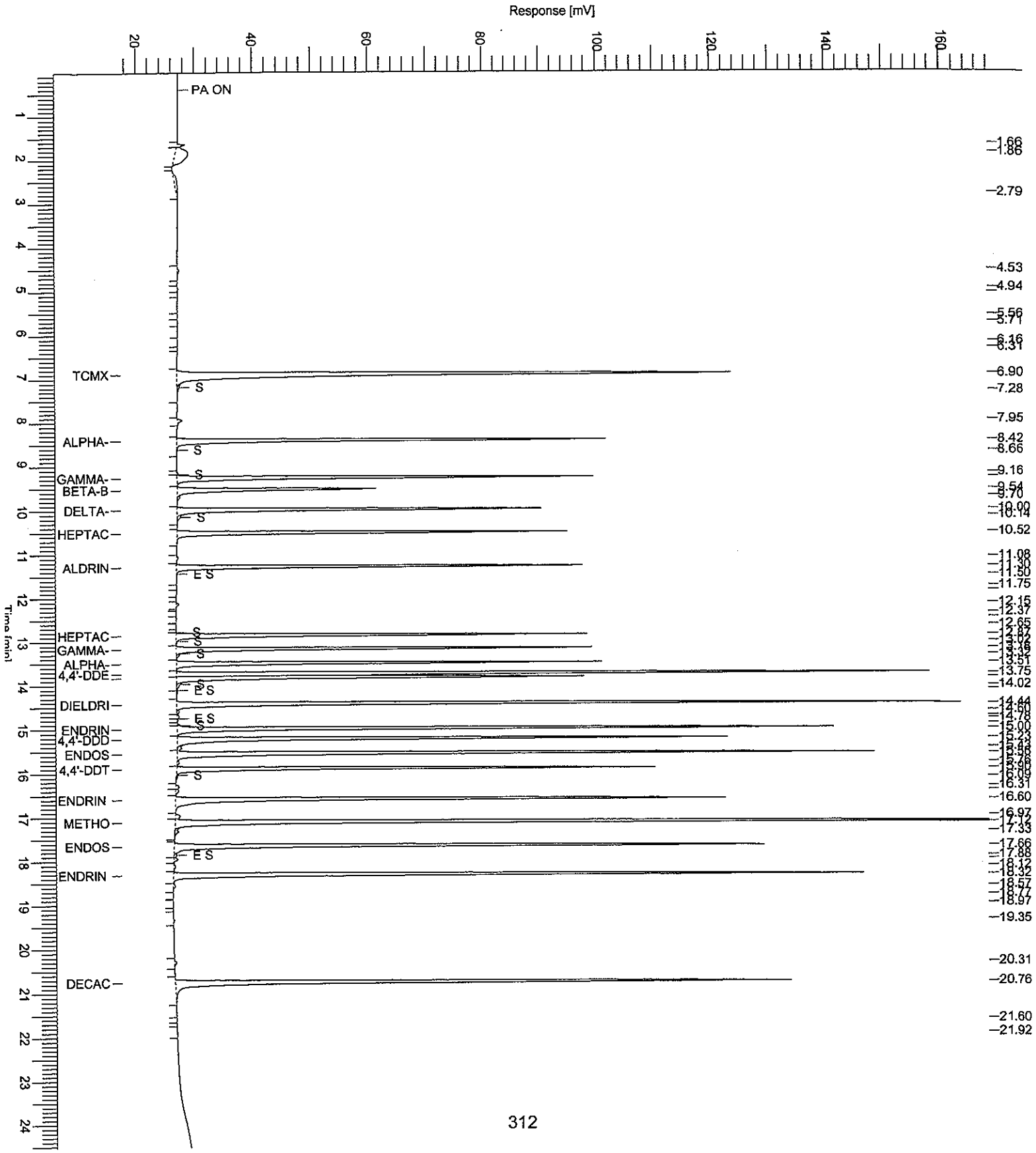
Report stored in ASCII file: G:\gc16\cha\279a020p.TX0

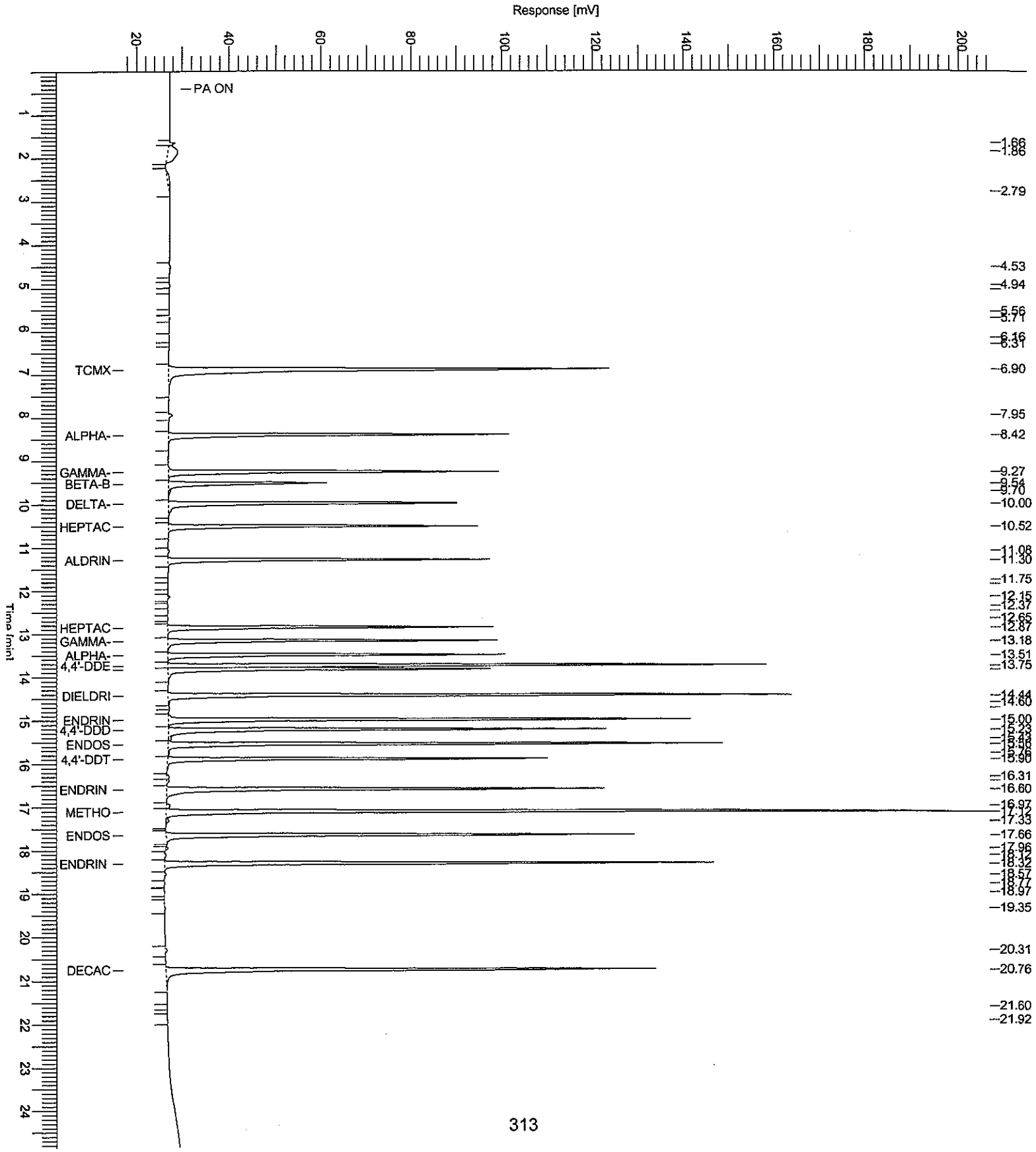
GC16 Rtx-CLPesticides

ample Name : ical,04ws1633,pest_5 Sample #: level 5 Page 1 of 1
leName : g:\gc16\cha\279a020.raw
ate : 10/6/04 11:00:31 AM
ethod :
Time of Injection: 10/6/04 1:15:46 AM
:art Time : 0.01 min End Time : 24.53 min Low Point : 17.27 mV High Point : 168.24 mV
ot Offset: 17.27 mV Plot Scale: 151.0 mV



GC16 Rtx-CLPesticides

ample Name : ical,04ws1633,pest_5 Sample #: level 5 Page 1 of 1
leName : G:\gc16\Cha\279a020.raw
ate : 10/6/04 3:00:36 PM
ethod : gc16 Time of Injection: 10/6/04 1:15:46 AM
lart Time : 0.00 min End Time : 24.85 min Low Point : 17.17 mV High Point : 206.94 mV
cale Factor: 1.0 Plot Offset: 17.17 mV Plot Scale: 189.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1633,pest_5
Instrument Name : GC16
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 10/6/04 12:03:25 PM
Data Acquisition Time : 10/6/04 1:15:46 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b020p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.867	1255482.17	48.7326	1.000	1	48.73
alpha-BHC	8.533	949812.09	27.1603	1.000	1	27.16
gamma-BHC	9.480	855353.92	26.4012	1.000	1	26.40
beta-BHC	9.733	424497.41	23.4158	1.000	1	23.42
delta-BHC	10.493	864924.75	24.3166	1.000	1	24.32
Heptachlor	10.627	556489.26	26.2186	1.000	1	26.22
Aldrin	11.453	790081.15	25.8289	1.000	1	25.83
Heptachlor epoxide	12.920	711298.82	24.2072	1.000	1	24.21
gamma-Chlordane	13.400	779790.94	24.7296	1.000	1	24.73
alpha-Chlordane	13.760	754668.22	24.3741	1.000	1	24.37
Endosulfan I	13.880	679925.20	24.1093	1.000	1	24.11
4,4'-DDE	14.240	1387009.05	51.4742	1.000	1	51.47
Dieldrin	14.560	1363787.87	49.2381	1.000	1	49.24
Endrin	15.293	1117069.98	50.7167	1.000	1	50.72
4,4'-DDD	15.653	955811.00	55.8148	1.000	1	55.81
Endosulfan II	15.827	1161362.10	47.8055	1.000	1	47.81
4,4'-DDT	16.413	747215.36	56.1594	1.000	1	56.16
Endrin aldehyde	16.653	906131.98	48.9066	1.000	1	48.91
Endosulfan sulfate	17.320	1038460.81	45.2624	1.000	1	45.26
Methoxychlor	18.107	1463540.26	262.0860	1.000	1	262.09
Endrin ketone	18.587	1114639.90	51.8087	1.000	1	51.81
Decachlorobiphenyl	21.613	832194.87	47.0930	1.000	1	47.09
		20709547.10	1065.8600			1065.86

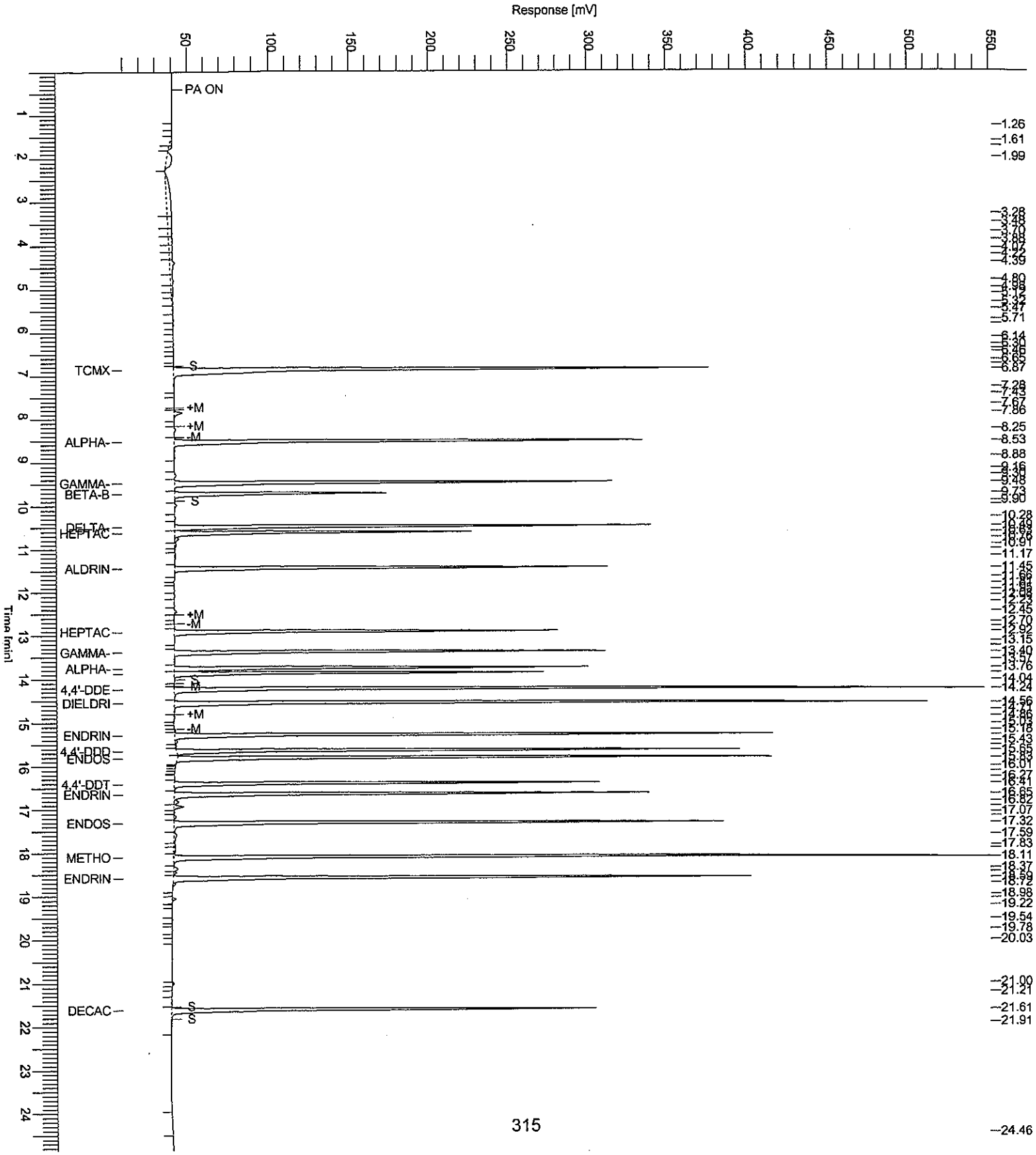
SOB 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\279b020p.TX0

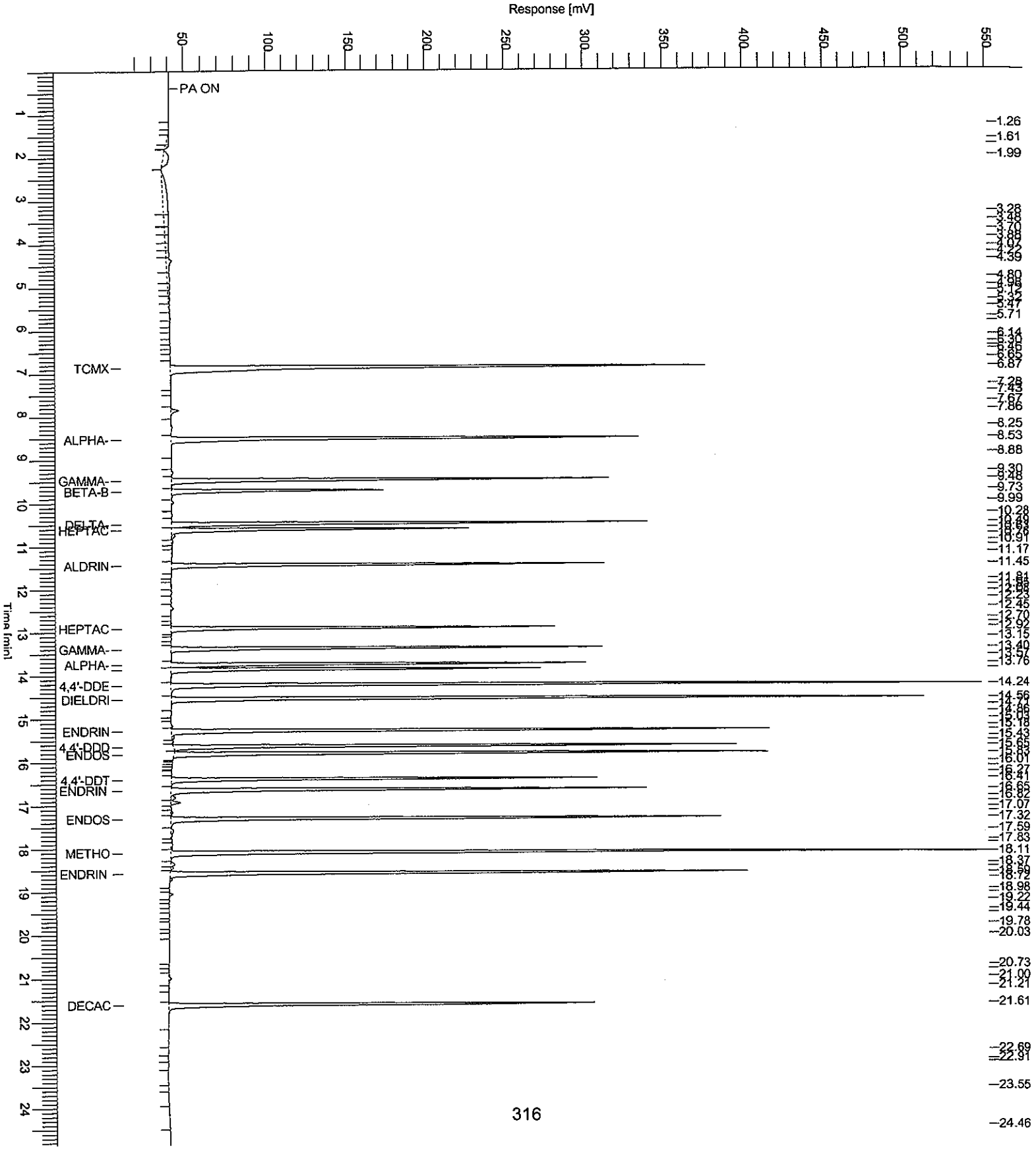
GC16 Rtx-CLPesticides2

ample Name : ical,04ws1633,pest_5 Sample #: level 5 Page 1 of 1
ileName : g:\gc16\chb\279b020.raw
ate : 10/6/04 12:03:29 PM
lethod :
Time of Injection: 10/6/04 1:15:46 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 9.33 mV High Point : 551.81 mV
lot Offset: 9.33 mV Plot Scale: 542.5 mV



GC16 Rtx-CLPesticides2

Sample Name : ical,04ws1633,pest_5 Sample #: level 5 Page 1 of 1
FileName : G:\gc16\Chb\279b020
Date : 10/6/04 3:01:04 PM
Method : gc16 Time of Injection: 10/6/04 1:15:46 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 10.69 mV High Point : 551.81 mV
Scale Factor: 1.0 Plot Offset: 10.69 mV Plot Scale: 541.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : GC16
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 10/6/04 11:06:19 AM
Data Acquisition Time : 10/6/04 1:45:59 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a021p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.893	863438.28	103.6031	1.000	1	103.60
alpha-BHC	8.413	585177.18	71.4223	1.000	1	71.42
gamma-BHC	9.267	551564.88	67.1931	1.000	1	67.19
beta-BHC	9.533	277576.09	54.0566	1.000	1	54.06
delta-BHC	9.987	532709.25	59.7277	1.000	1	59.73
Heptachlor	10.520	466144.51	55.7464	1.000	1	55.75
Aldrin	11.293	488343.60	58.4911	1.000	1	58.49
Heptachlor epoxide	12.867	472511.96	54.0434	1.000	1	54.04
gamma-Chlordane	13.173	506879.31	55.4504	1.000	1	55.45
alpha-Chlordane	13.507	502083.19	55.1655	1.000	1	55.17
4,4'-DDE	13.747	907148.07	116.4002	1.000	1	116.40
Endosulfan I	13.840	522358.45	55.7794	1.000	1	55.78
Dieldrin	14.440	903899.12	110.5733	1.000	1	110.57
Endrin	15.000	769641.77	109.0211	1.000	1	109.02
4,4'-DDD	15.227	698079.09	123.8090	1.000	1	123.81
Endosulfan II	15.560	831260.27	108.4759	1.000	1	108.48
4,4'-DDT	15.907	628382.29	137.9250	1.000	1	137.92
Endrin aldehyde	16.600	678959.17	104.4894	1.000	1	104.49
Methoxychlor	17.120	1208578.23	545.1296	1.000	1	545.13
Endosulfan sulfate	17.667	728198.11	105.3089	1.000	1	105.31
Endrin ketone	18.320	827223.52	109.2861	1.000	1	109.29
Decachlorobiphenyl	20.760	742322.46	94.9075	1.000	1	94.91
		14692478.80	2356.0051			2356.01

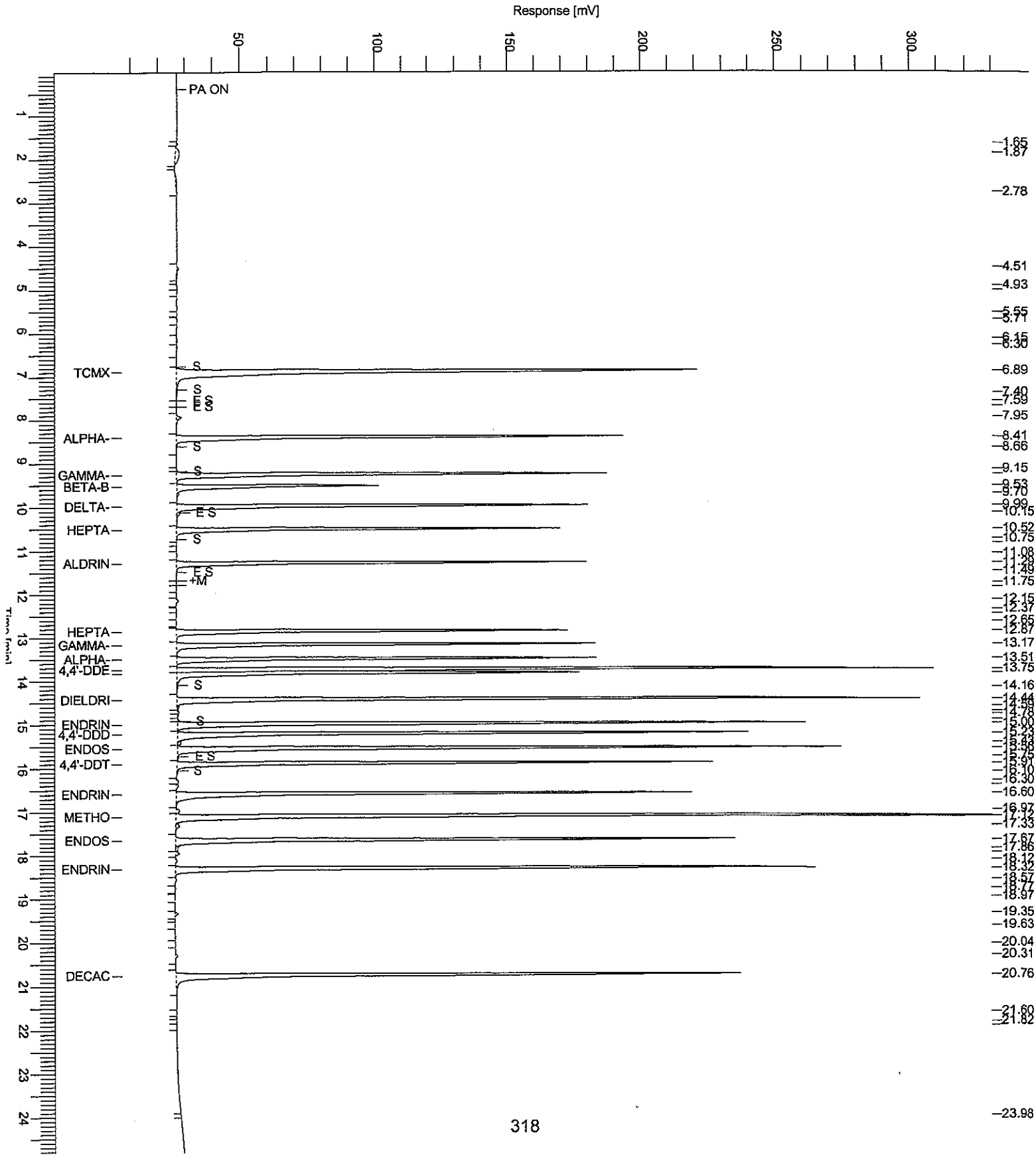
SOB 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\cha\279a021p.TX0

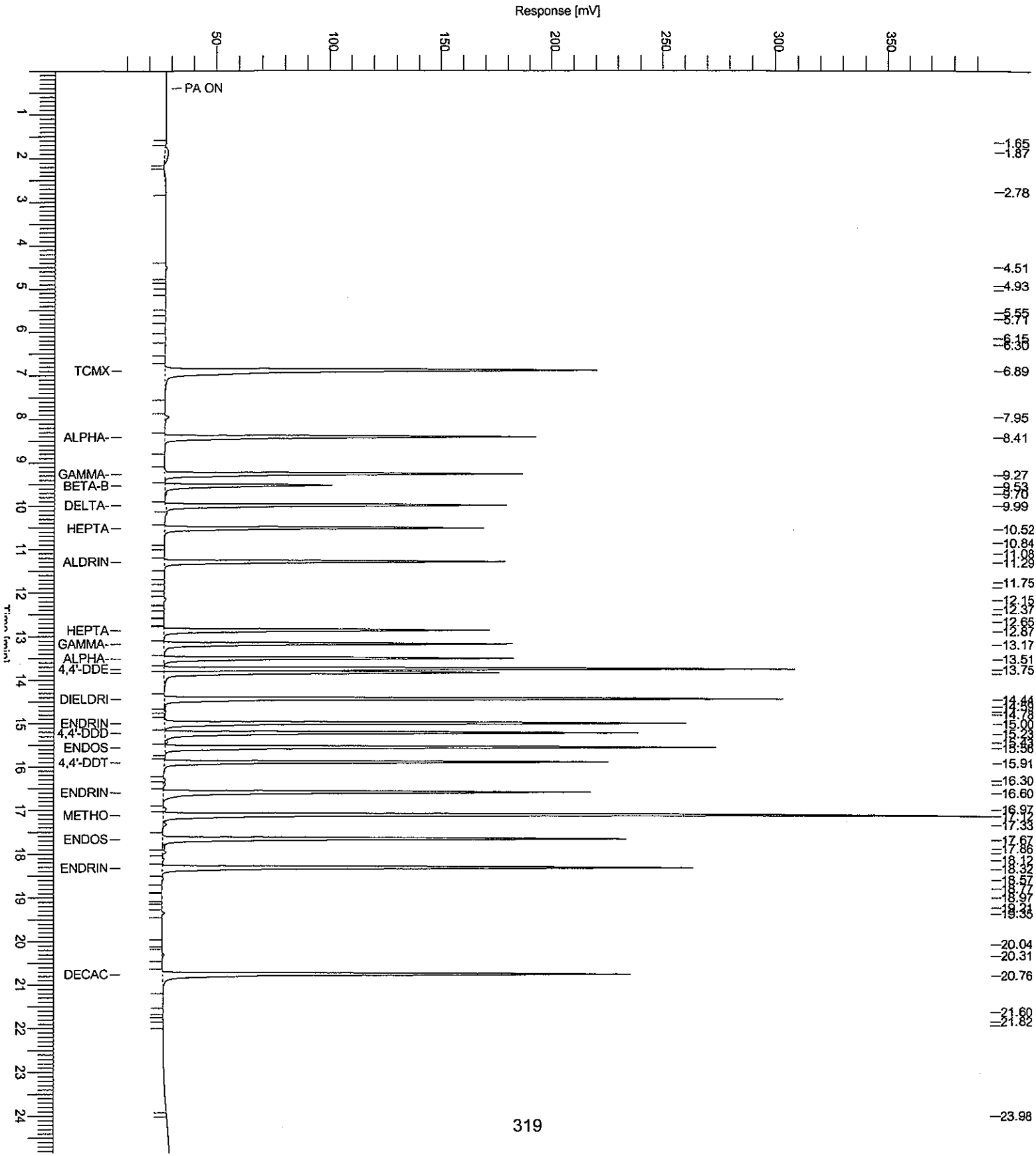
GC16 Rtx-CLPesticides

ample Name : ical,04ws1634,pest_6 Sample #: level 6 Page 1 of 1
leName : g:\gc16\cha\279a021.raw
ate : 10/6/04 11:06:24 AM
ethod :
Time of Injection: 10/6/04 1:45:59 AM
art Time : 0.01 min End Time : 24.83 min Low Point : 6.74 mV High Point : 330.67 mV
ot Offset: 6.74 mV Plot Scale: 323.9 mV



GC16 Rtx-CLPesticides

ample Name : ical,04ws1634,pest_6 Sample #: level 6 Page 1 of 1
leName : G:\gc16\Cha\279a021.raw
ate : 10/6/04 3:00:39 PM
ethod : gc16 Time of Injection: 10/6/04 1:45:59 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 7.71 mV High Point : 397.45 mV
cale Factor: 1.0 Plot Offset: 7.71 mV Plot Scale: 389.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : GC16
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 10/6/04 12:02:40 PM
Data Acquisition Time : 10/6/04 1:45:59 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b021p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.867	2447060.81	94.9848	1.000	1	94.98
alpha-BHC	8.520	1978805.90	56.5849	1.000	1	56.58
gamma-BHC	9.480	1775532.17	54.8032	1.000	1	54.80
beta-BHC	9.720	848294.53	46.7930	1.000	1	46.79
delta-BHC	10.493	1820073.04	51.1698	1.000	1	51.17
Heptachlor	10.627	1159446.63	54.6265	1.000	1	54.63
Aldrin	11.453	1620196.09	52.9665	1.000	1	52.97
Heptachlor epoxide	12.920	1423449.30	48.4435	1.000	1	48.44
gamma-Chlordane	13.400	1622934.85	51.4683	1.000	1	51.47
alpha-Chlordane	13.760	1574409.30	50.8500	1.000	1	50.85
Endosulfan I	13.880	1374865.60	48.7511	1.000	1	48.75
4,4'-DDE	14.240	2851480.69	105.8232	1.000	1	105.82
Dieldrin	14.560	2746812.29	99.1708	1.000	1	99.17
Endrin	15.293	2295223.53	104.2068	1.000	1	104.21
4,4'-DDD	15.653	2013131.25	117.5573	1.000	1	117.56
Endosulfan II	15.813	2337611.66	96.2239	1.000	1	96.22
4,4'-DDT	16.413	1717472.33	129.0822	1.000	1	129.08
Endrin aldehyde	16.653	1827919.83	98.6583	1.000	1	98.66
Endosulfan sulfate	17.320	2094043.29	91.2711	1.000	1	91.27
Methoxychlor	18.107	3011583.04	539.3045	1.000	1	539.30
Endrin ketone	18.587	2265429.94	105.2977	1.000	1	105.30
Decachlorobiphenyl	21.613	1683330.12	95.2577	1.000	1	95.26
		42489106.17	2193.2950			2193.30

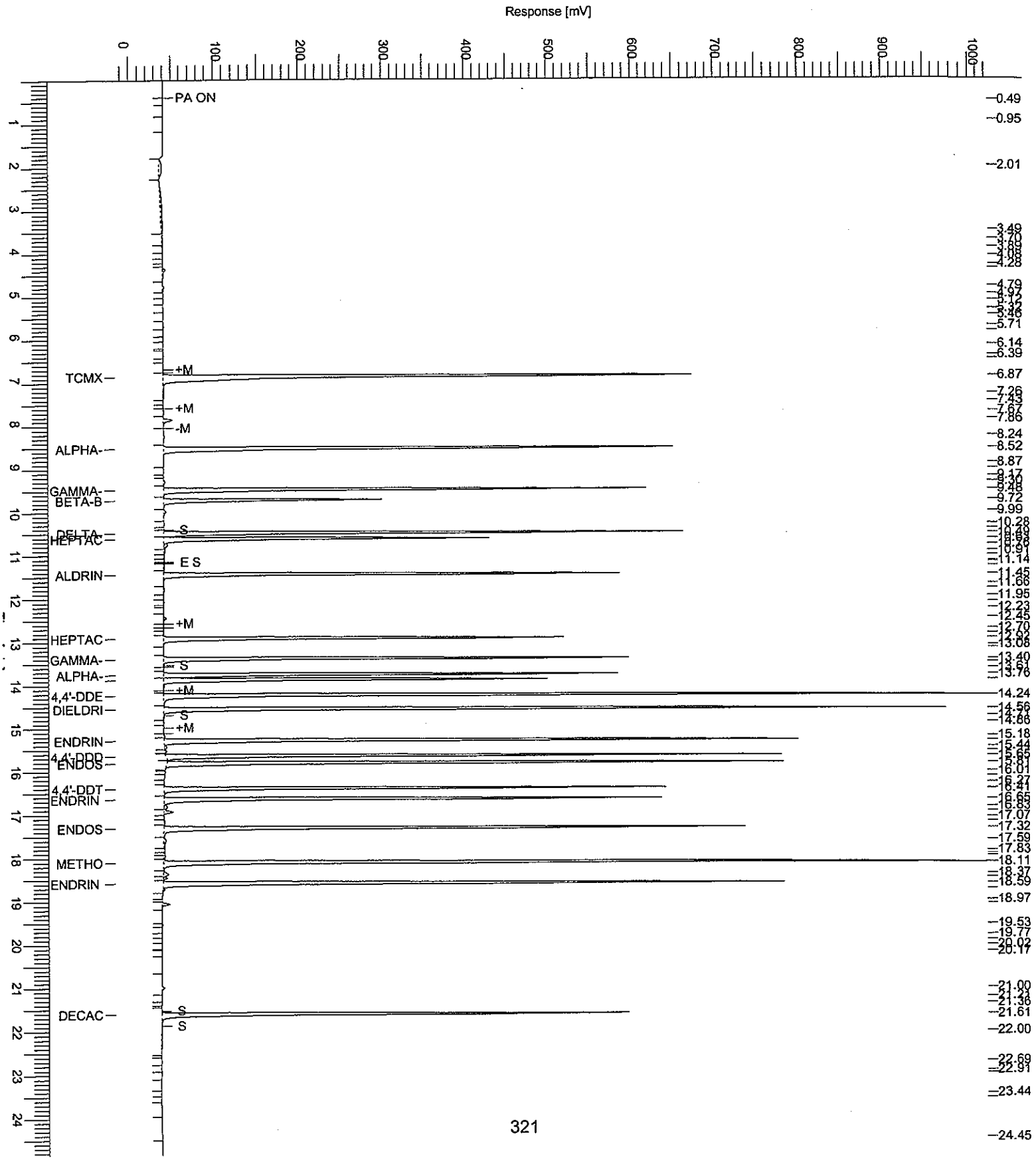
SOP 10/6/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc16\chb\279b021p.TX0

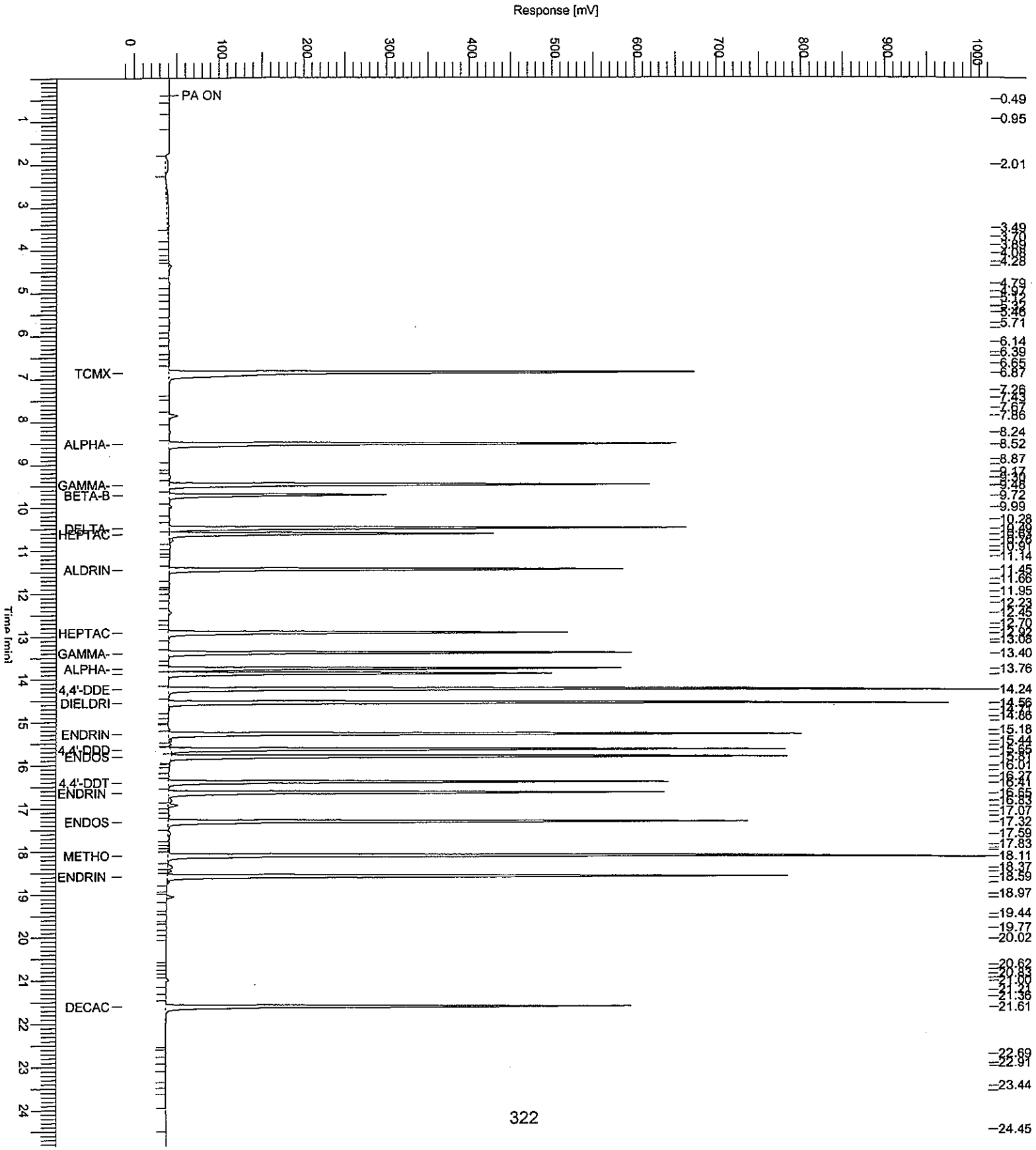
GC16 Rtx-CLPesticides2

.mple Name : ical,04ws1634,pest_6 Sample #: level 6 Page 1 of 1
eName : g:\gc16\chb\279b021.raw
ıte : 10/6/04 12:02:45 PM
ethod :
Time of Injection: 10/6/04 1:45:59 AM
art Time : 0.00 min End Time : 24.85 min Low Point : -15.57 mV High Point : 1024.00 mV
ot Offset: -15.57 mV Plot Scale: 1039.6 mV



GC16 Rtx-CLPesticides2

ample Name : ical,04ws1634,pest_6 Sample #: level 6 Page 1 of 1
ileName : G:\gc16\Chb\279b021
ate : 10/6/04 3:01:08 PM
ethod : gc16 Time of Injection: 10/6/04 1:45:59 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : -12.97 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: -12.97 mV Plot Scale: 1037.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : GC16
Rack/Vial : 1/22
Sample Amount : 1.000000
Cycle : 22

Date : 10/6/04 11:12:42 AM
Data Acquisition Time : 10/6/04 2:16:11 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a022p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.893	1630126.45	195.5972	1.000	1	195.60
alpha-BHC	8.413	1170986.10	142.9217	1.000	1	142.92
gamma-BHC	9.267	1068341.60	130.1482	1.000	1	130.15
beta-BHC	9.533	519780.83	101.2248	1.000	1	101.22
delta-BHC	9.987	1024517.37	114.8695	1.000	1	114.87
Heptachlor	10.520	860701.66	102.9317	1.000	1	102.93
Aldrin	11.293	910162.60	109.0143	1.000	1	109.01
Heptachlor epoxide	12.867	830606.32	95.0004	1.000	1	95.00
gamma-Chlordane	13.173	911771.70	99.7439	1.000	1	99.74
alpha-Chlordane	13.507	894615.06	98.2942	1.000	1	98.29
4,4'-DDE	13.747	1578554.74	202.5514	1.000	1	202.55
Endosulfan I	13.840	923746.97	98.6413	1.000	1	98.64
Dieldrin	14.440	1553245.79	190.0074	1.000	1	190.01
Endrin	15.000	1302623.93	184.5190	1.000	1	184.52
4,4'-DDD	15.227	1222255.65	216.7752	1.000	1	216.78
Endosulfan II	15.560	1411619.39	184.2103	1.000	1	184.21
4,4'-DDT	15.907	1161038.11	254.8387	1.000	1	254.84
Endrin aldehyde	16.600	1161952.47	178.8204	1.000	1	178.82
Methoxychlor	17.120	2088570.89	942.0506	1.000	1	942.05
Endosulfan sulfate	17.667	1234516.27	178.5304	1.000	1	178.53
Endrin ketone	18.320	1397805.68	184.6669	1.000	1	184.67
Decachlorobiphenyl	20.760	1244774.09	159.1471	1.000	1	159.15
		26102313.65	4164.5044			4164.50

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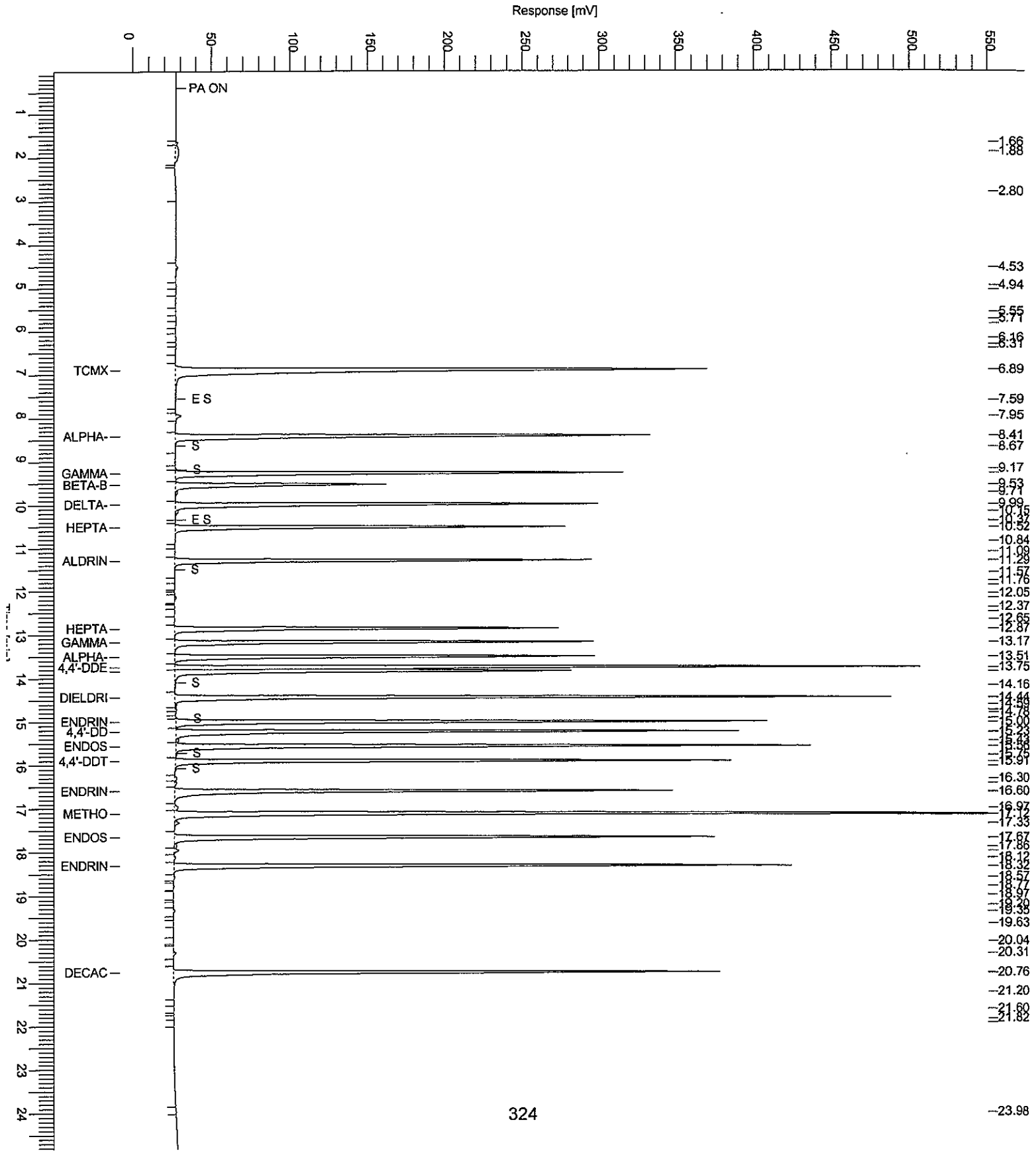
Report stored in ASCII file: G:\gc16\cha\279a022p.TX0

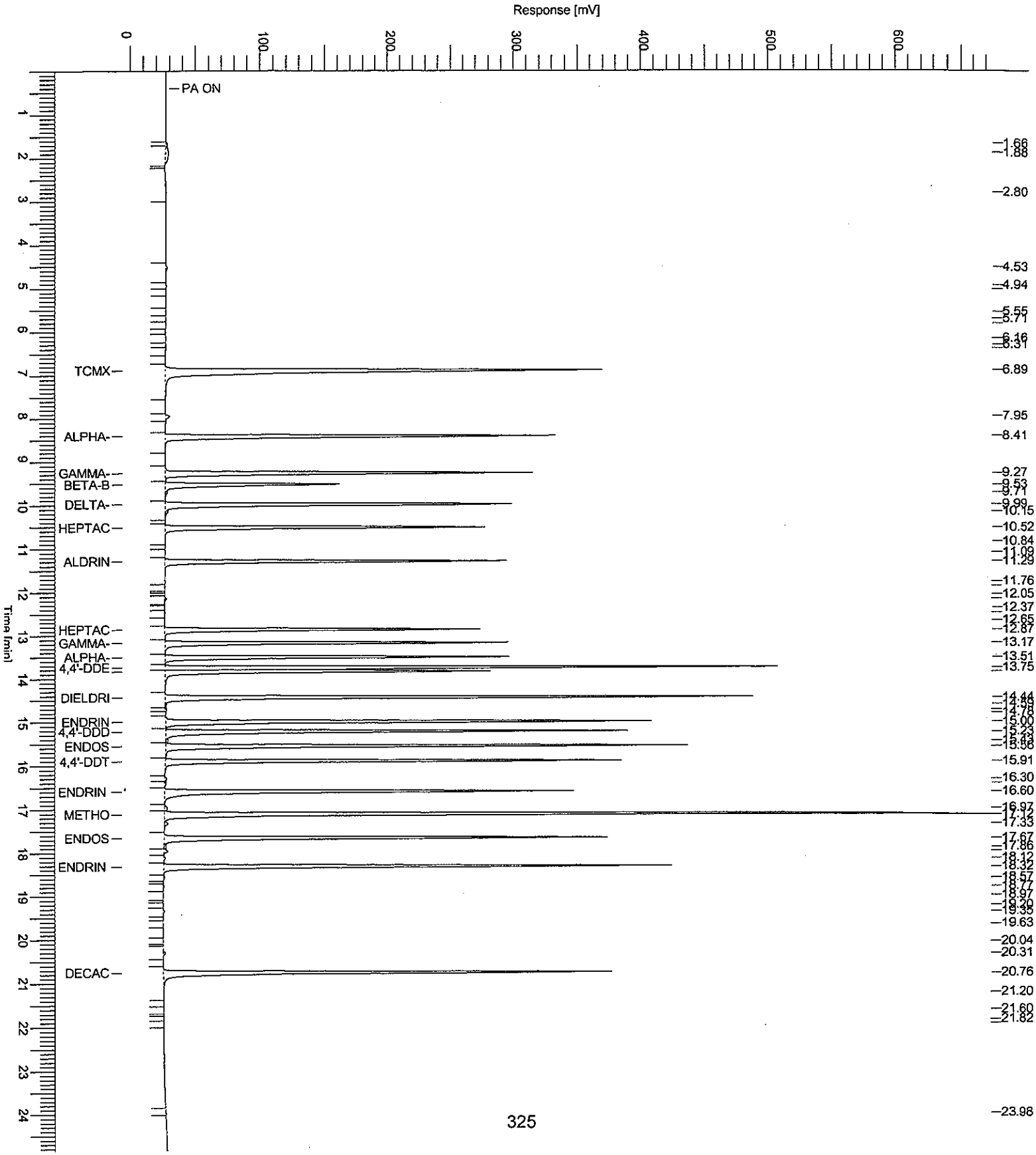
GC16 Rtx-CLPesticides

ımple Name : ical,04ws1635,pest_7 Sample #: level 7 Page 1 of 1
eName : g:\gc16\cha\279a022.raw
ıte : 10/6/04 11:12:47 AM
ethod :
Time of Injection: 10/6/04 2:16:11 AM
art Time : 0.01 min End Time : 24.83 min Low Point : -7.83 mV High Point : 550.75 mV
ot Offset: -7.83 mV Plot Scale: 558.6 mV



GC16 Rtx-CLPesticides

ample Name : ical,04ws1635,pest_7 Sample #: level 7 Page 1 of 1
ileName : G:\gc16\Cha\279a022.raw
ate : 10/6/04 3:00:43 PM
lethod : gc16 Time of Injection: 10/6/04 2:16:11 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : -6.13 mV High Point : 674.84 mV
cale Factor: 1.0 Plot Offset: -6.13 mV Plot Scale: 681.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : GC16
Rack/Vial : 1/22
Sample Amount : 1.000000
Cycle : 22

Date : 10/6/04 12:14:01 PM
Data Acquisition Time : 10/6/04 2:16:11 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b022p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.867	4365065.84	169.4338	1.000	1	169.43
alpha-BHC	8.533	3605877.25	103.1117	1.000	1	103.11
gamma-BHC	9.480	3265837.94	100.8026	1.000	1	100.80
beta-BHC	9.733	1515790.98	83.6130	1.000	1	83.61
delta-BHC	10.493	3214855.16	90.3830	1.000	1	90.38
Heptachlor	10.627	2127473.51	100.2344	1.000	1	100.23
Aldrin	11.453	2893395.02	94.5892	1.000	1	94.59
Heptachlor epoxide	12.920	2453357.63	83.4938	1.000	1	83.49
gamma-Chlordane	13.400	2863234.04	90.8020	1.000	1	90.80
alpha-Chlordane	13.760	2777209.05	89.6978	1.000	1	89.70
Endosulfan I	13.880	2351759.32	83.3905	1.000	1	83.39
4,4'-DDE	14.253	3746399.71	139.0352	1.000	1	139.04
Dieldrin	14.560	3781766.19	136.5367	1.000	1	136.54
Endrin	15.293	3503814.08	159.0787	1.000	1	159.08
4,4'-DDD	15.653	3196132.57	186.6390	1.000	1	186.64
Endosulfan II	15.827	3529062.78	145.2680	1.000	1	145.27
4,4'-DDT	16.413	2963883.48	222.7603	1.000	1	222.76
Endrin aldehyde	16.653	3083385.18	166.4195	1.000	1	166.42
Endosulfan sulfate	17.320	3339155.86	145.5406	1.000	1	145.54
Methoxychlor	18.120	3813353.18	682.8829	1.000	1	682.88
Endrin ketone	18.587	3538675.24	164.4785	1.000	1	164.48
Decachlorobiphenyl	21.613	2931548.55	165.8930	1.000	1	165.89
		68861032.56	3404.0841			3404.08

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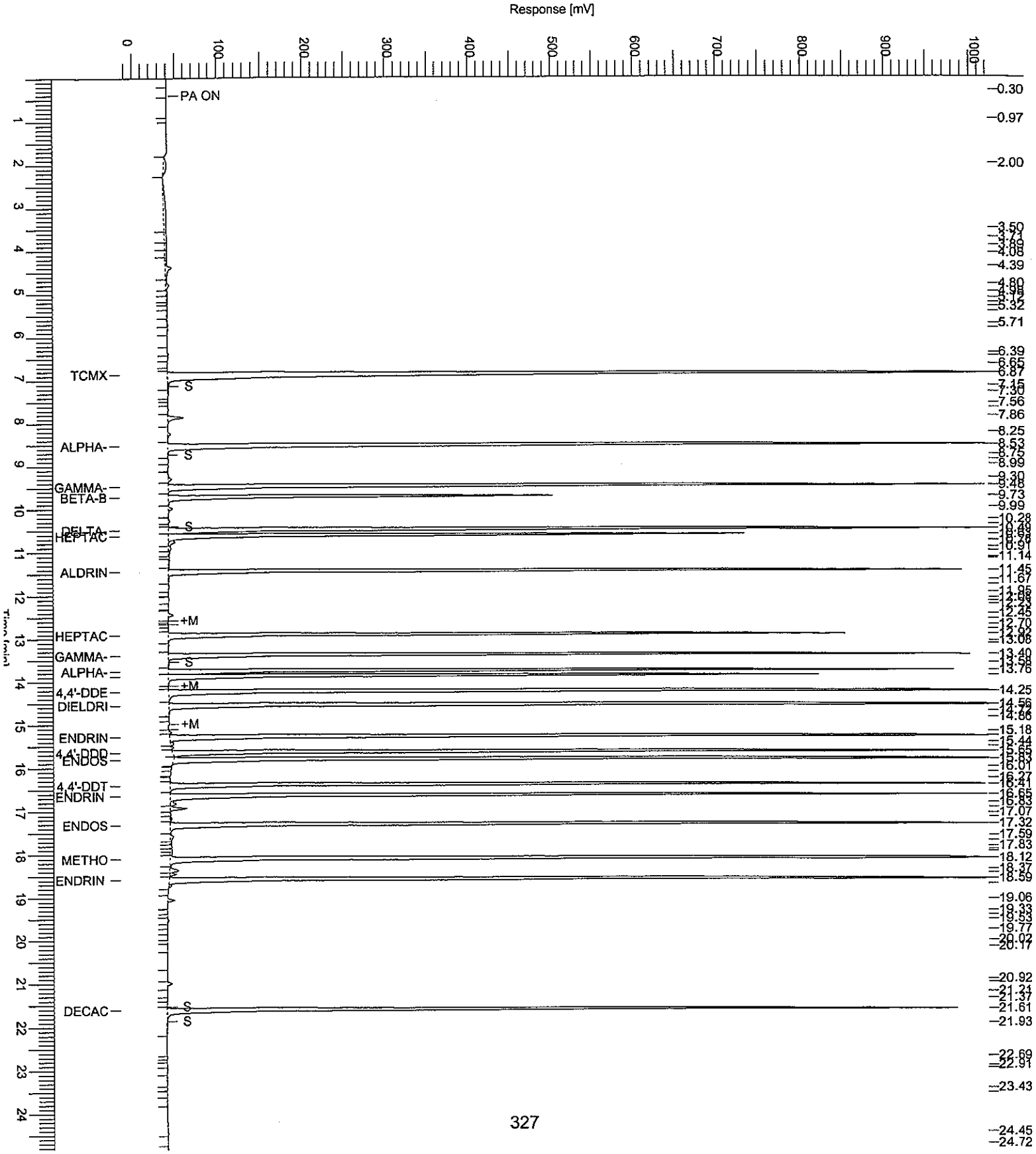
Report stored in ASCII file: G:\gc16\chb\279b022p.TX0

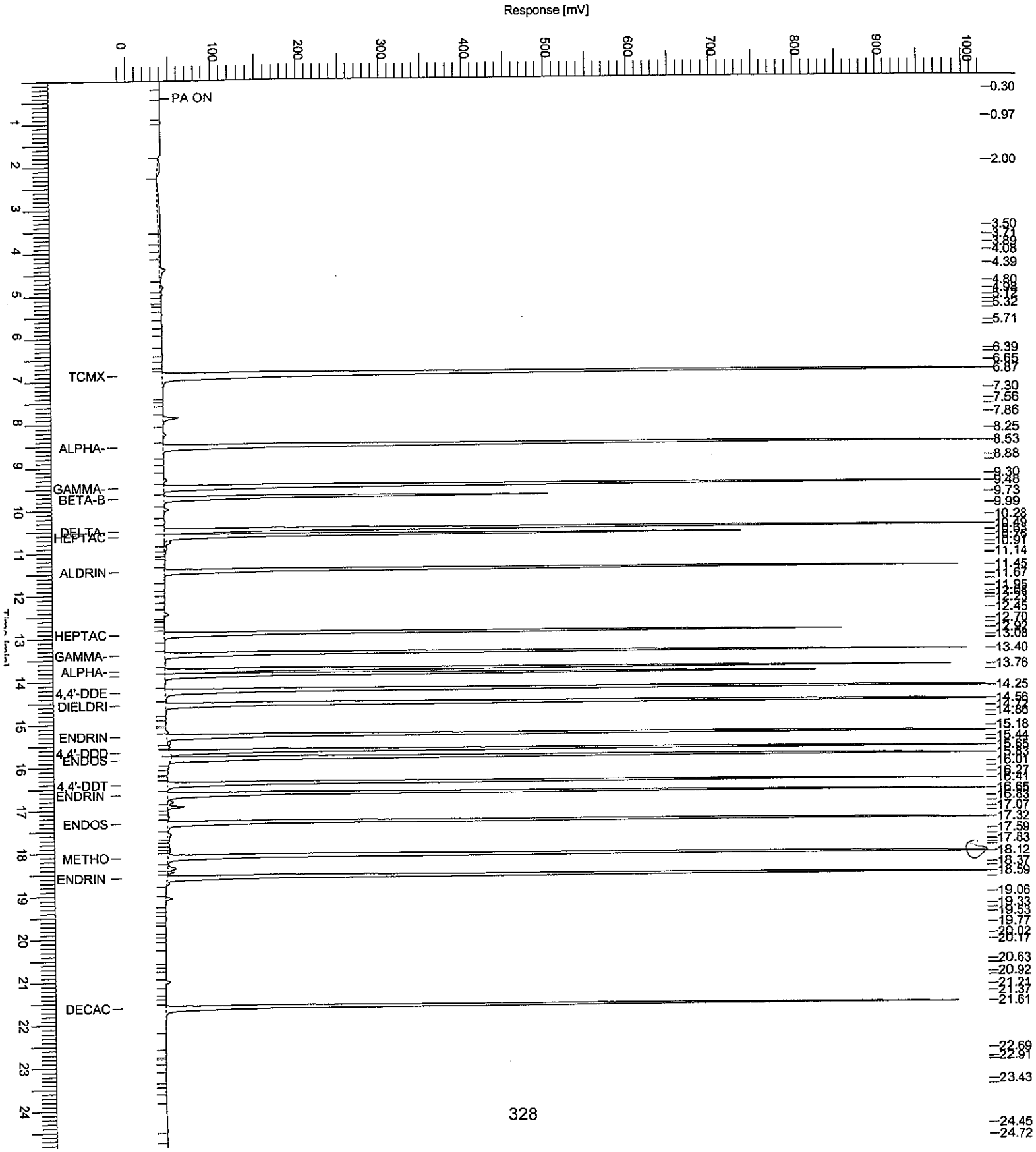
GC16 Rtx-CLPesticides2

ample Name : ical,04ws1635,pest_7 Sample #: level 7 Page 1 of 1
leName : g:\gc16\chb\279b022.raw
ate : 10/6/04 12:14:05 PM
ethod :
Time of Injection: 10/6/04 2:16:11 AM
art Time : 0.00 min End Time : 24.85 min Low Point : -15.58 mV High Point : 1024.00 mV
ot Offset: -15.58 mV Plot Scale: 1039.6 mV



GC16 Rtx-CLPesticides2

mple Name : ical,04ws1635,pest_7 Sample #: level 7 Page 1 of 1
eName : G:\gc16\Chb\279b022
ate : 10/6/04 3:01:12 PM
ethod : gc16 Time of Injection: 10/6/04 2:16:11 AM
art Time : 0.00 min End Time : 24.85 min Low Point : -12.98 mV High Point : 1024.00 mV
ale Factor: 1.0 Plot Offset: -12.98 mV Plot Scale: 1037.0 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC16 Run Name :
Seqnum : 234402633024 Filename : 279_024 Injected : 06-OCT-2004 03:17
Calnum : 234402633001 Caldate : 05-OCT-2004 Caltype :
Standards: 04WS1584

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	27.76663	pg	11	15	
gamma-BHC	A	25.00000	28.02729	pg	12	15	
beta-BHC	A	25.00000	25.49257	pg	2	15	
delta-BHC	A	25.00000	27.45451	pg	10	15	
Heptachlor	A	25.00000	27.56791	pg	10	15	
Aldrin	A	25.00000	27.38167	pg	10	15	
Heptachlor epoxide	A	25.00000	25.80739	pg	3	15	
gamma-Chlordane	A	25.00000	25.76788	pg	3	15	
alpha-Chlordane	A	25.00000	26.32698	pg	5	15	
4,4'-DDE	A	25.00000	24.78874	pg	-1	15	
Endosulfan I	A	25.00000	25.53270	pg	2	15	
Dieldrin	A	25.00000	25.92083	pg	4	15	
Endrin	A	25.00000	26.18383	pg	5	15	
4,4'-DDD	A	25.00000	24.25625	pg	-3	15	
Endosulfan II	A	25.00000	26.05829	pg	4	15	
4,4'-DDT	A	25.00000	26.27968	pg	5	15	
Endrin aldehyde	A	25.00000	24.79624	pg	-1	15	
Methoxychlor	A	25.00000	26.79345	pg	7	15	
Endosulfan sulfate	A	25.00000	25.83603	pg	3	15	
Endrin ketone	A	25.00000	25.61264	pg	2	15	
TCMX	A	25.00000	27.91432	pg	12	15	
Decachlorobiphenyl	A	25.00000	24.30729	pg	-3	15	
alpha-BHC	B	25.00000	26.30299	pg	5	15	
gamma-BHC	B	25.00000	26.17330	pg	5	15	
beta-BHC	B	25.00000	23.70843	pg	-5	15	
delta-BHC	B	25.00000	25.75454	pg	3	15	
Heptachlor	B	25.00000	26.23488	pg	5	15	
Aldrin	B	25.00000	26.19918	pg	5	15	
Heptachlor epoxide	B	25.00000	24.63456	pg	-1	15	
gamma-Chlordane	B	25.00000	24.51895	pg	-2	15	
alpha-Chlordane	B	25.00000	24.83582	pg	-1	15	
4,4'-DDE	B	25.00000	27.00867	pg	8	15	
Endosulfan I	B	25.00000	25.18992	pg	1	15	
Dieldrin	B	25.00000	26.68227	pg	7	15	
Endrin	B	25.00000	26.37421	pg	5	15	
4,4'-DDD	B	25.00000	25.28163	pg	1	15	
Endosulfan II	B	25.00000	25.81067	pg	3	15	
4,4'-DDT	B	25.00000	26.71674	pg	7	15	
Endrin aldehyde	B	25.00000	24.38727	pg	-2	15	
Methoxychlor	B	25.00000	28.65049	pg	15	15	
Endosulfan sulfate	B	25.00000	25.56987	pg	2	15	
Endrin ketone	B	25.00000	25.41658	pg	2	15	
TCMX	B	25.00000	27.66836	pg	11	15	
Decachlorobiphenyl	B	25.00000	23.21471	pg	-7	15	

SOO 10/6/04

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Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1584
Instrument Name : GC16
Rack/Vial : 1/24
Sample Amount : 1.000000
Cycle : 24

Date : 10/6/04 3:43:13 PM
Data Acquisition Time : 10/6/04 3:17:13 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\cha\279a024p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.896	231691.65	27.9143	1.000	1	27.91
alpha-BHC	8.415	251167.92	27.7666	1.000	1	27.77
gamma-BHC	9.269	246281.14	28.0273	1.000	1	28.03
beta-BHC	9.535	127852.19	25.4926	1.000	1	25.49
delta-BHC	9.992	229280.92	27.4545	1.000	1	27.45
Heptachlor	10.521	225469.17	27.5679	1.000	1	27.57
Aldrin	11.295	228077.64	27.3817	1.000	1	27.38
Heptachlor epoxide	12.867	226868.05	25.8074	1.000	1	25.81
gamma-Chlordane	13.178	233776.30	25.7679	1.000	1	25.77
alpha-Chlordane	13.510	239352.02	26.3270	1.000	1	26.33
4,4'-DDE	13.751	193675.84	24.7887	1.000	1	24.79
Endosulfan I	13.841	240544.58	25.5327	1.000	1	25.53
Dieldrin	14.440	212904.93	25.9208	1.000	1	25.92
Endrin	15.003	183488.92	26.1838	1.000	1	26.18
4,4'-DDD	15.229	141536.70	24.2563	1.000	1	24.26
Endosulfan II	15.562	203314.24	26.0583	1.000	1	26.06
4,4'-DDT	15.905	116677.66	26.2797	1.000	1	26.28
Endrin aldehyde	16.601	166965.86	24.7962	1.000	1	24.80
Methoxychlor	17.120	61918.70	26.7934	1.000	1	26.79
Endosulfan sulfate	17.664	183407.68	25.8360	1.000	1	25.84
Endrin ketone	18.320	198446.71	25.6126	1.000	1	25.61
Decachlorobiphenyl	20.762	197253.45	24.3073	1.000	1	24.31
		4339952.28	575.8731			575.87

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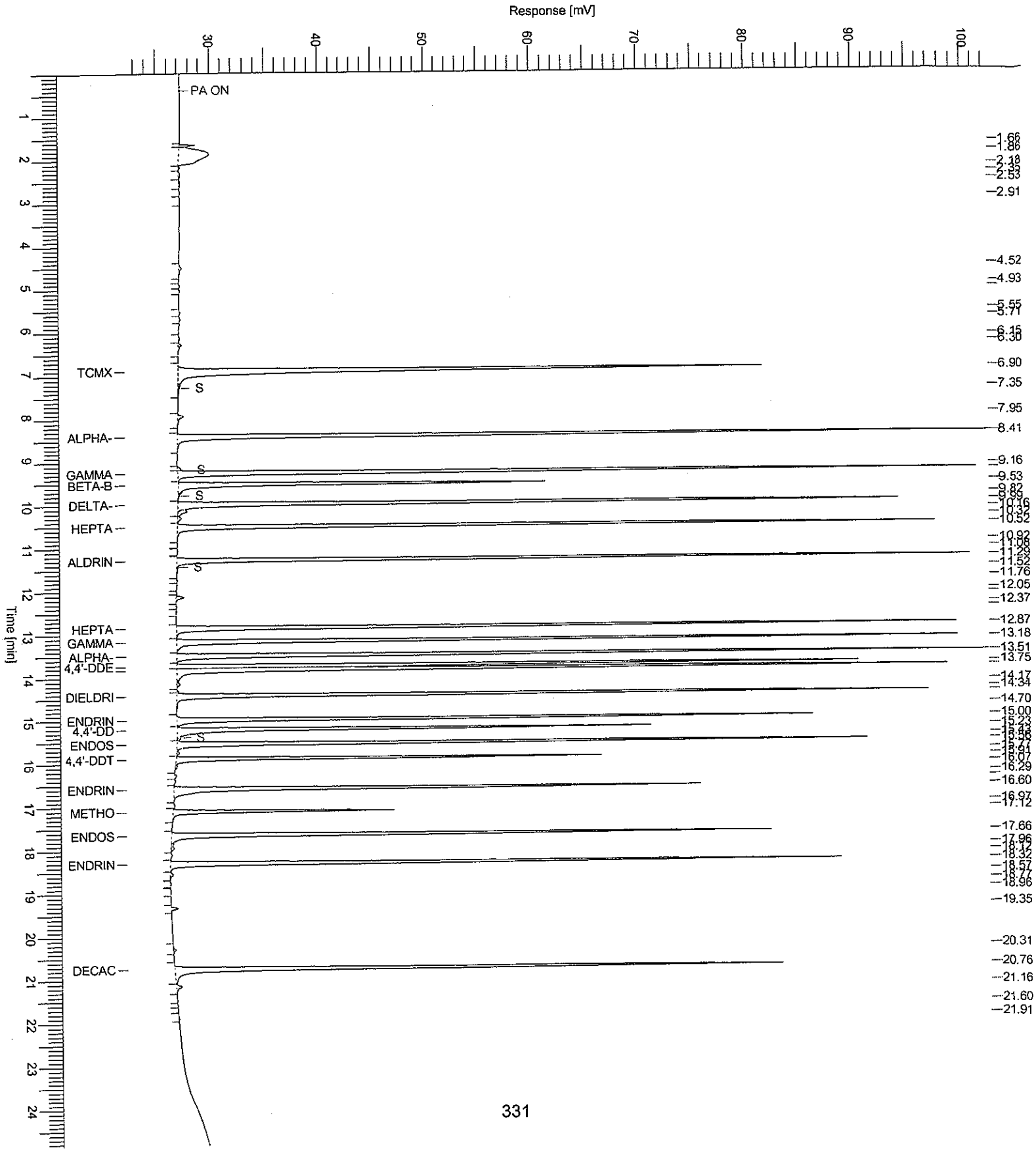
Report stored in ASCII file: G:\gc16\cha\279a024p.TX0

DDT 116677.66 ÷ 4439.8427 ppb = 26.27968 ppb

non 10/6/04

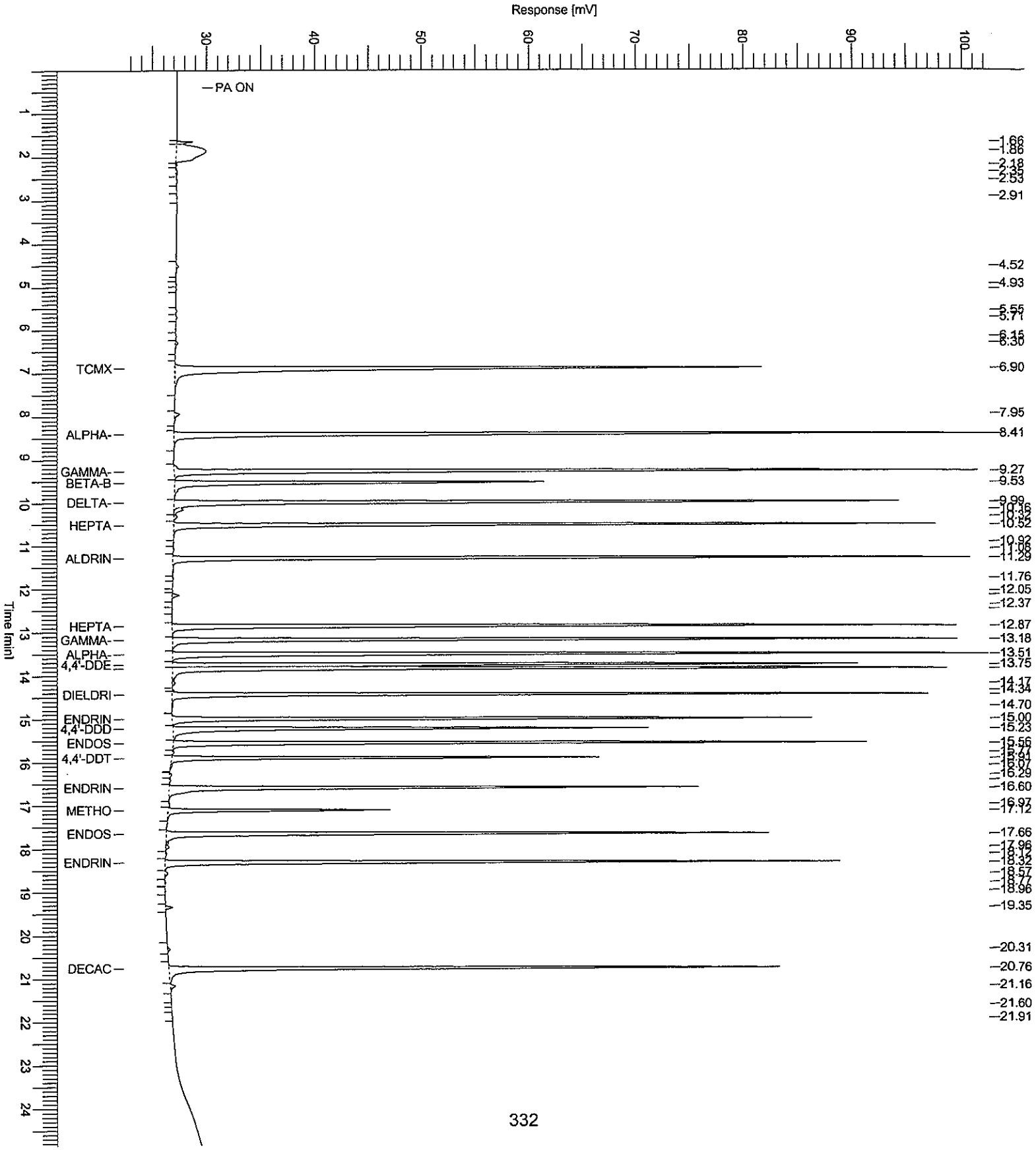
GC16 Rtx-CLPesticides

Sample Name : icv,04ws1584 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc16\Cha\279a024.raw
Date : 10/6/04 3:47:45 PM
Method :
Time of Injection: 10/6/04 3:17:13 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 22.14 mV High Point : 102.56 mV
Plot Offset: 22.14 mV Plot Scale: 80.4 mV



GC16 Rtx-CLPesticides

Sample Name : icv,04ws1584 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc16\Cha\279a024.raw
Date : 10/6/04 3:38:37 PM
Method : gc16 Time of Injection: 10/6/04 3:17:13 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 22.34 mV High Point : 102.56 mV
Scale Factor: 1.0 Plot Offset: 22.34 mV Plot Scale: 80.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1584
Instrument Name : GC16
Rack/Vial : 1/24
Sample Amount : 1.000000
Cycle : 24

Date : 10/6/04 3:41:32 PM
Data Acquisition Time : 10/6/04 3:17:13 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc16\chb\279b024p.rst
Sequence File : G:\gc16\files\279.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.867	712638.91	27.6684	1.000	1	27.67
alpha-BHC	8.520	951477.32	26.3030	1.000	1	26.30
gamma-BHC	9.480	873750.37	26.1733	1.000	1	26.17
beta-BHC	9.720	430806.25	23.7084	1.000	1	23.71
delta-BHC	10.493	895086.34	25.7545	1.000	1	25.75
Heptachlor	10.627	583550.78	26.2349	1.000	1	26.23
Aldrin	11.453	820746.40	26.1992	1.000	1	26.20
Heptachlor epoxide	12.920	730517.39	24.6346	1.000	1	24.63
gamma-Chlordane	13.400	788279.61	24.5190	1.000	1	24.52
alpha-Chlordane	13.760	785296.87	24.8358	1.000	1	24.84
Endosulfan I	13.880	709584.03	25.1899	1.000	1	25.19
4,4'-DDE	14.240	718855.19	27.0087	1.000	1	27.01
Dieldrin	14.560	725739.32	26.6823	1.000	1	26.68
Endrin	15.293	598010.62	26.3742	1.000	1	26.37
4,4'-DDD	15.653	482975.05	25.2816	1.000	1	25.28
Endosulfan II	15.827	635627.29	25.8107	1.000	1	25.81
4,4'-DDT	16.413	383302.91	26.7167	1.000	1	26.72
Endrin aldehyde	16.653	477521.03	24.3873	1.000	1	24.39
Endosulfan sulfate	17.320	570843.63	25.5699	1.000	1	25.57
Methoxychlor	18.112	177191.87	28.6505	1.000	1	28.65
Endrin ketone	18.587	591931.57	25.4166	1.000	1	25.42
Decachlorobiphenyl	21.613	429383.07	23.2147	1.000	1	23.21
		14073115.80	566.3340			566.33

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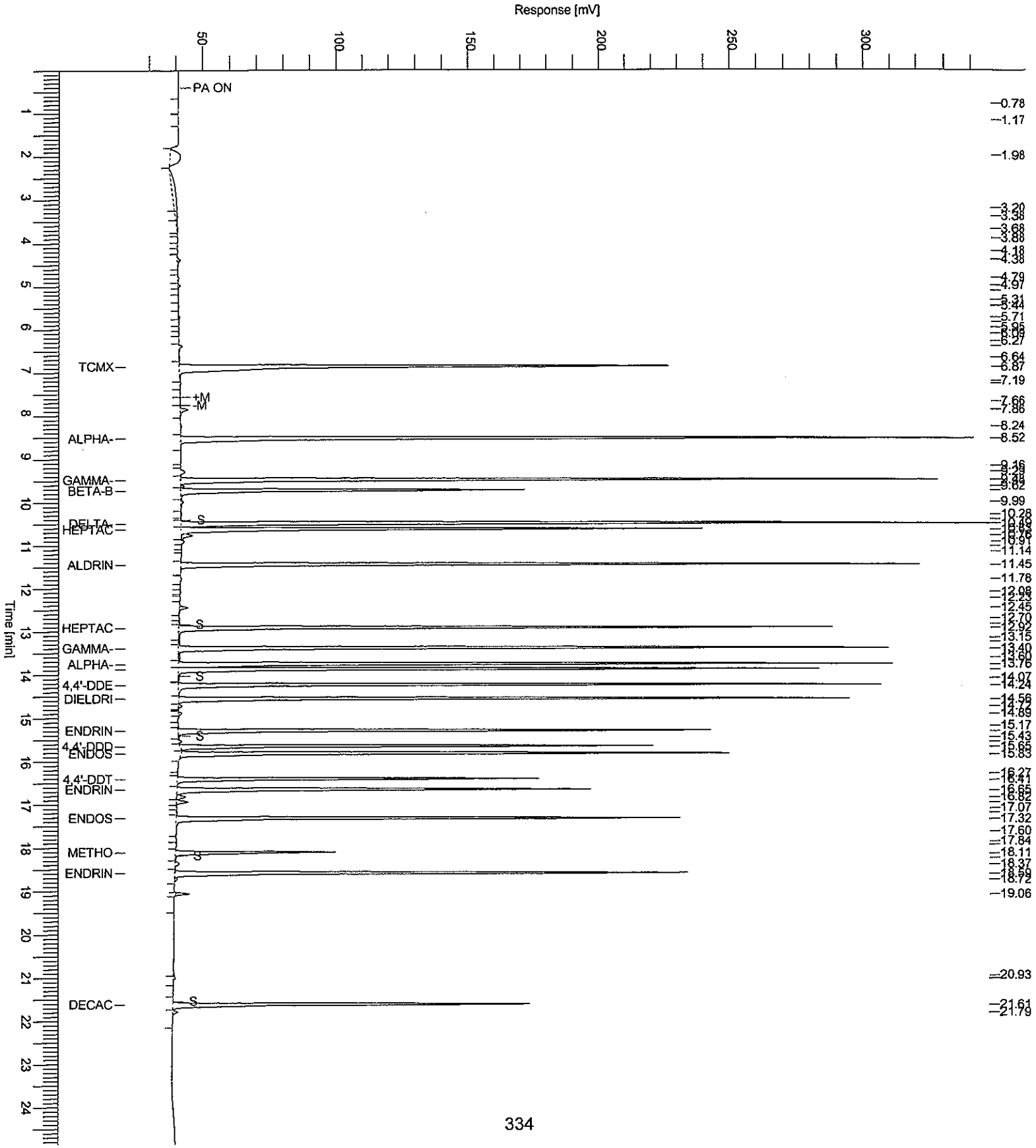
Report stored in ASCII file: G:\gc16\chb\279b024p.TX0

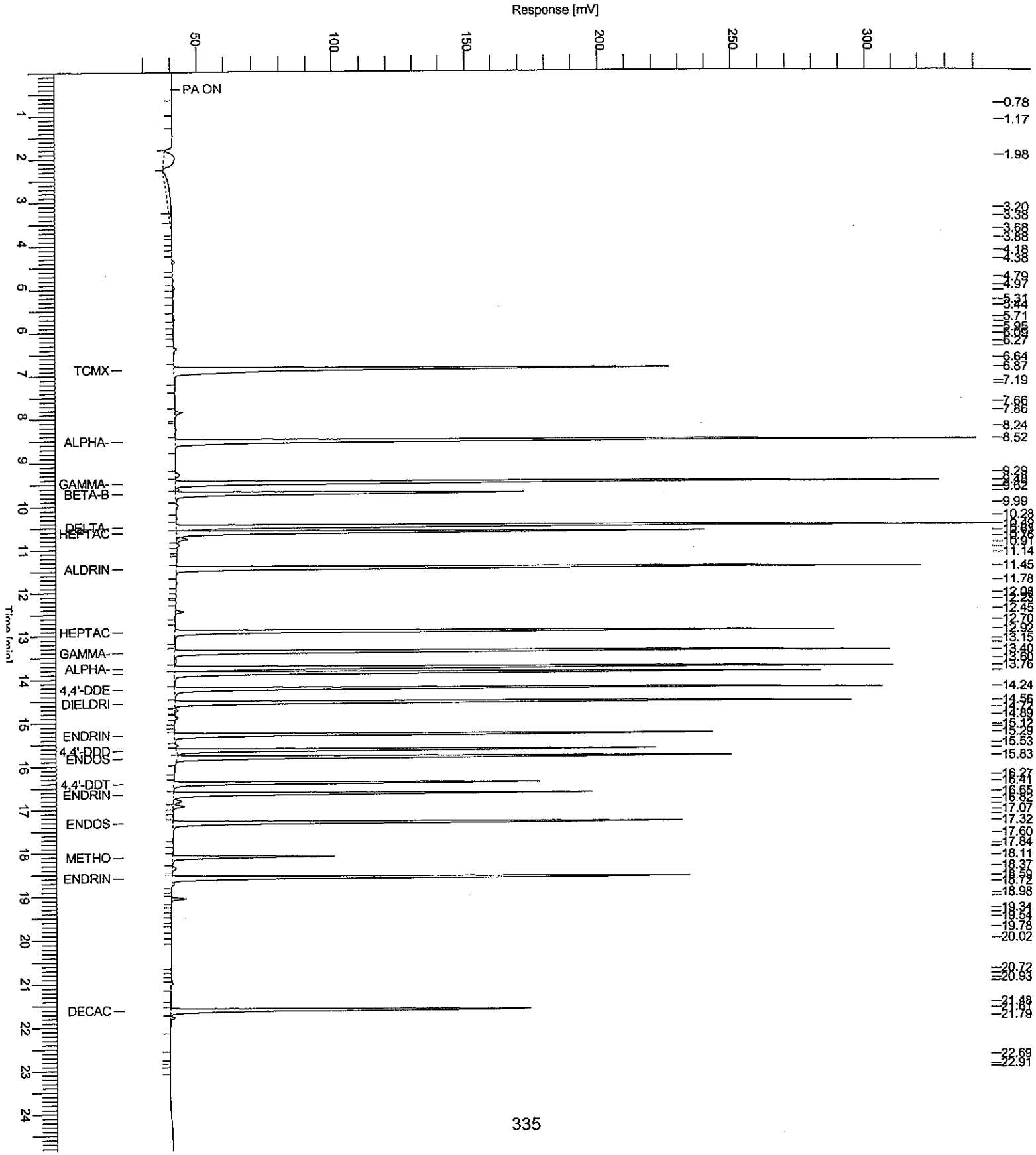
GC16 Rtx-CLPesticides2

Sample Name : icv,04ws1584 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc16\Chb\279b024.raw
Date : 10/6/04 3:41:37 PM
Method : Time of Injection: 10/6/04 3:17:13 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 21.07 mV High Point : 347.77 mV
Plot Offset: 21.07 mV Plot Scale: 326.7 mV



GC16 Rtx-CLPesticides2

ample Name : icv,04ws1584 Sample #: 25ug/L Page 1 of 1
ileName : G:\gc16\Chb\279b024
late : 10/6/04 3:38:33 PM
lethod : gc16 Time of Injection: 10/6/04 3:17:13 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 21.89 mV High Point : 347.77 mV
cale Factor: 1.0 Plot Offset: 21.89 mV Plot Scale: 325.9 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By: 9/28/04

Instrument: GC23 Gas Chromatograph #23 ECD
Calnum: 804386835001 Name: Type: (normal) Date: 24-SEP-2004 19:42 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	268_011	804386835011	level_1	24-SEP-2004 19:42	04WS1628
2	268_012	804386835012	level_2	24-SEP-2004 20:12	04WS1629
3	268_013	804386835013	level_3	24-SEP-2004 20:41	04WS1630
4	268_014	804386835014	level_4	24-SEP-2004 21:11	04WS1632
5	268_015	804386835015	level_5	24-SEP-2004 21:40	04WS1633
6	268_016	804386835016	level_6	24-SEP-2004 22:10	04WS1634
7	268_017	804386835017	level_7	24-SEP-2004 22:39	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	15271	14674	14146	14031	14024	14239	15323	AVRG	R		6.882E-5		pg	14530	4	0.995	20	
gamma-BHC	A	13968	13437	12814	12662	12584	12658	13707	AVRG	R		7.623E-5		pg	13119	4	0.995	20	
beta-BHC	A	6295.5	6009.2	5633.5	5467.7	5375.7	5099.2	5131.8	AVRG	R		1.794E-4		pg	5573.2	8	0.995	20	
delta-BHC	A	13984	13485	12651	12583	12597	12791	13803	AVRG	R		7.618E-5		pg	13128	5	0.995	20	
Heptachlor	A	10742	11032	10349	10348	10444	10593	11807	AVRG	R		9.294E-5		pg	10759	5	0.995	20	
Aldrin	A	13142	12677	11845	11568	11496	11552	12450	AVRG	R		8.262E-5		pg	12104	5	0.995	20	
Heptachlor epoxide	A	12568	11976	11087	10729	10683	10604	11318	AVRG	R		8.865E-5		pg	11281	7	0.995	20	
gamma-Chlordane	A	12367	11938	11066	10810	10861	10866	11817	AVRG	R		8.780E-5		pg	11389	6	0.995	20	
alpha-Chlordane	A	12233	11708	10649	10454	10450	10435	11269	AVRG	R		9.068E-5		pg	11028	7	0.995	20	
4,4'-DDE	A	11534	11199	10298	10508	10721	11282	10824	AVRG	R		9.166E-5		pg	10910	4	0.995	20	
Endosulfan I	A	11639	11081	10134	9933.7	9845.1	9679.3	10366	AVRG	R		9.632E-5		pg	10383	7	0.995	20	
Dieldrin	A	12128	11811	10813	10946	11049	11465	10838	AVRG	R		8.855E-5		pg	11293	5	0.995	20	
Endrin	A	9399.2	9177.9	8197.9	8328.7	8462.9	8829.2	8752.8	AVRG	R		1.145E-4		pg	8735.5	5	0.995	20	
4,4'-DDD	A	10252	9861.5	9102.3	8961.9	9145.6	9522.0	9266.8	AVRG	R		1.059E-4		pg	9444.6	5	0.995	20	
Endosulfan II	A	10850	10344	9281.4	9250.5	9375.4	9711.9	9437.1	AVRG	R		1.026E-4		pg	9750.1	6	0.995	20	
4,4'-DDT	A	7468.4	7650.7	6659.9	7371.2	7563.7	8268.3	8602.3	AVRG	R		1.306E-4		pg	7654.9	8	0.995	20	
Endrin aldehyde	A	8680.7	8280.0	7389.8	7268.4	7278.1	7278.1	7461.3	AVRG	R		1.305E-4		pg	7662.3	8	0.995	20	
Methoxychlor	A	3536.6	3543.0	3013.6	3484.3	3686.5	3476.4	2916.8	AVRG	R		2.959E-4		pg	3379.6	9	0.995	20	
Endosulfan sulfate	A	9547.0	9205.5	8130.8	8096.4	8234.5	8448.2	8646.6	AVRG	R		1.161E-4		pg	8615.6	7	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By:
Calnum: 804386835001 Name: Type: (normal) Date: 24-SEP-2004 19:42 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	11591	11170	9943.1	10028	10237	10521	9903.6	AVRG	R		9.538E-5		pg	10485	6	0.995	20	
TCMX	A	10469	9815.3	9247.1	8921.1	8936.6	8937.5	9317.2	AVRG	R		1.066E-4		pg	9377.7	6	0.995	20	
Decachlorobiphenyl	A	7331.3	7035.5	5833.5	6201.0	6384.4	6706.6	7004.4	AVRG	R		1.505E-4		pg	6642.4	8	0.995	20	
alpha-BHC	B	15012	15067	13950	14313	13608	14155	14061	AVRG	R		6.988E-5		pg	14309	4	0.995	20	
gamma-BHC	B	13836	13808	12694	12838	12237	12591	12564	AVRG	R		7.729E-5		pg	12938	5	0.995	20	
beta-BHC	B	6696.0	6470.9	5799.4	5717.1	5408.1	5362.5	5080.4	AVRG	R		1.727E-4		pg	5790.6	10	0.995	20	
delta-BHC	B	13963	13896	12597	12790	12229	12703	12577	AVRG	R		7.713E-5		pg	12965	5	0.995	20	
Heptachlor	B	8035.2	8598.2	8248.4	8692.0	8346.5	8906.9	9105.9	AVRG	R		1.168E-4		pg	8561.9	4	0.995	20	
Aldrin	B	13084	13242	11958	12044	11433	11735	11620	AVRG	R		8.224E-5		pg	12159	6	0.995	20	
Heptachlor epoxide	B	12392	12377	11040	10640	10483	10566	10395	AVRG	R		8.987E-5		pg	11128	8	0.995	20	
gamma-Chlordane	B	12618	12628	11285	11303	10822	11120	11030	AVRG	R		8.663E-5		pg	11544	7	0.995	20	
alpha-Chlordane	B	12459	12279	10866	10856	10320	10615	10503	AVRG	R		8.986E-5		pg	11128	8	0.995	20	
4,4'-DDE	B	11817	11948	10605	10897	10456	11040	9844.3	AVRG	R		9.137E-5		pg	10944	7	0.995	20	
Endosulfan I	B	11671	11551	10233	10201	9728.8	9892.4	9709.0	AVRG	R		9.591E-5		pg	10427	8	0.995	20	
Dieldrin	B	12228	12294	10872	11050	10558	11045	9670.7	AVRG	R		9.007E-5		pg	11102	8	0.995	20	
Endrin	B	8835.8	8960.5	7844.1	8129.4	7682.1	8222.9	7492.0	AVRG	R		1.224E-4		pg	8166.7	7	0.995	20	
4,4'-DDD	B	10150	10192	8973.2	9022.6	8660.5	9106.6	8158.2	AVRG	R		1.089E-4		pg	9180.4	8	0.995	20	
Endosulfan II	B	10942	10795	9392.5	9414.3	8996.9	9503.5	8394.8	AVRG	R		1.038E-4		pg	9634.2	10	0.995	20	
4,4'-DDT	B	6465.8	6706.4	5963.5	6586.2	6283.8	7438.4	6943.3	AVRG	R		1.509E-4		pg	6626.8	7	0.995	20	
Endrin aldehyde	B	8934.0	8714.6	7457.6	7380.8	7050.8	7337.9	6731.4	AVRG	R		1.306E-4		pg	7658.2	11	0.995	20	
Methoxychlor	B	3409.5	3358.6	2911.6	3139.3	2992.8	3121.4	2493.3	AVRG	R		3.267E-4		pg	3060.9	10	0.995	20	
Endosulfan sulfate	B	9945.8	9718.8	8273.6	8415.6	7972.1	8712.2	7943.8	AVRG	R		1.148E-4		pg	8711.7	9	0.995	20	
Endrin ketone	B	12188	11819	10060	10027	9557.8	10130	8577.2	AVRG	R		9.674E-5		pg	10337	12	0.995	20	
TCMX	B	10356	10190	9230.0	9250.7	8805.2	9055.8	8629.3	AVRG	R		1.068E-4		pg	9359.5	7	0.995	20	
Decachlorobiphenyl	B	7700.1	6946.7	5834.8	5688.5	5402.1	6005.4	5141.2	AVRG	R		1.639E-4		pg	6102.7	15	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	6	20	
EPA 8081A	B	22	8	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804386835005 Run Name: Injected: 24-SEP-2004 15:15
Filename: 268_005 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	482999.79
Endrin aldehyde	A	12958.94
Endrin ketone	A	30109.17

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	896005.84
4,4'-DDE	A	4081
4,4'-DDD	A	59599.43

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	442143.64
Endrin aldehyde	B	25617.34
Endrin ketone	B	54893.74

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	761333.83
4,4'-DDE	B	4444.64
4,4'-DDD	B	56719.37

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

mcw 9/28/04

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 9/24/04 6:18:20 PM
Data Acquisition Time : 9/24/04 3:15:25 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a005.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.965	1136.50	0.1014	1.000	1	0.10
alpha-BHC	9.599	151375.24	8.6775	1.000	1	8.68
gamma-BHC	10.496	142484.00	9.0611	1.000	1	9.06
beta-BHC	10.754	63816.00	9.4332	1.000	1	9.43
delta-BHC	11.248	5370.15	0.3263	1.000	1	0.33
Heptachlor	11.803	941.57	0.0672	1.000	1	0.07
Aldrin	12.607	905.00	0.0633	1.000	1	0.06
Heptachlor epoxide	14.206	1361.93	0.1037	1.000	1	0.10
gamma-Chlordane	14.581	866.11	0.0647	1.000	1	0.06
alpha-Chlordane	14.864	822.09	0.0647	1.000	1	0.06
4,4'-DDE	15.067	4081.00	0.3345	1.000	1	0.33
Endosulfan I	15.215	1214.00	0.1005	1.000	1	0.10
Dieldrin	15.816	1356.48	0.1062	1.000	1	0.11
Endrin	16.396	482999.79	45.7595	1.000	1	45.76
4,4'-DDD	16.569	59599.43	6.1141	1.000	1	6.11
Endosulfan II	16.963	3556.72	0.3223	1.000	1	0.32
4,4'-DDT	17.261	896005.84	90.0859	1.000	1	90.09
Endrin aldehyde	18.006	12958.94	1.3884	1.000	1	1.39
Methoxychlor	18.464	1019768.69	247.5555	1.000	1	247.56
Endosulfan sulfate	19.088	3663.32	0.3674	1.000	1	0.37
Endrin ketone	19.765	30109.17	2.6462	1.000	1	2.65
Decachlorobiphenyl	21.722	0.00	0.0000	1.000	1	0.00
		2884391.98	422.7437			422.74

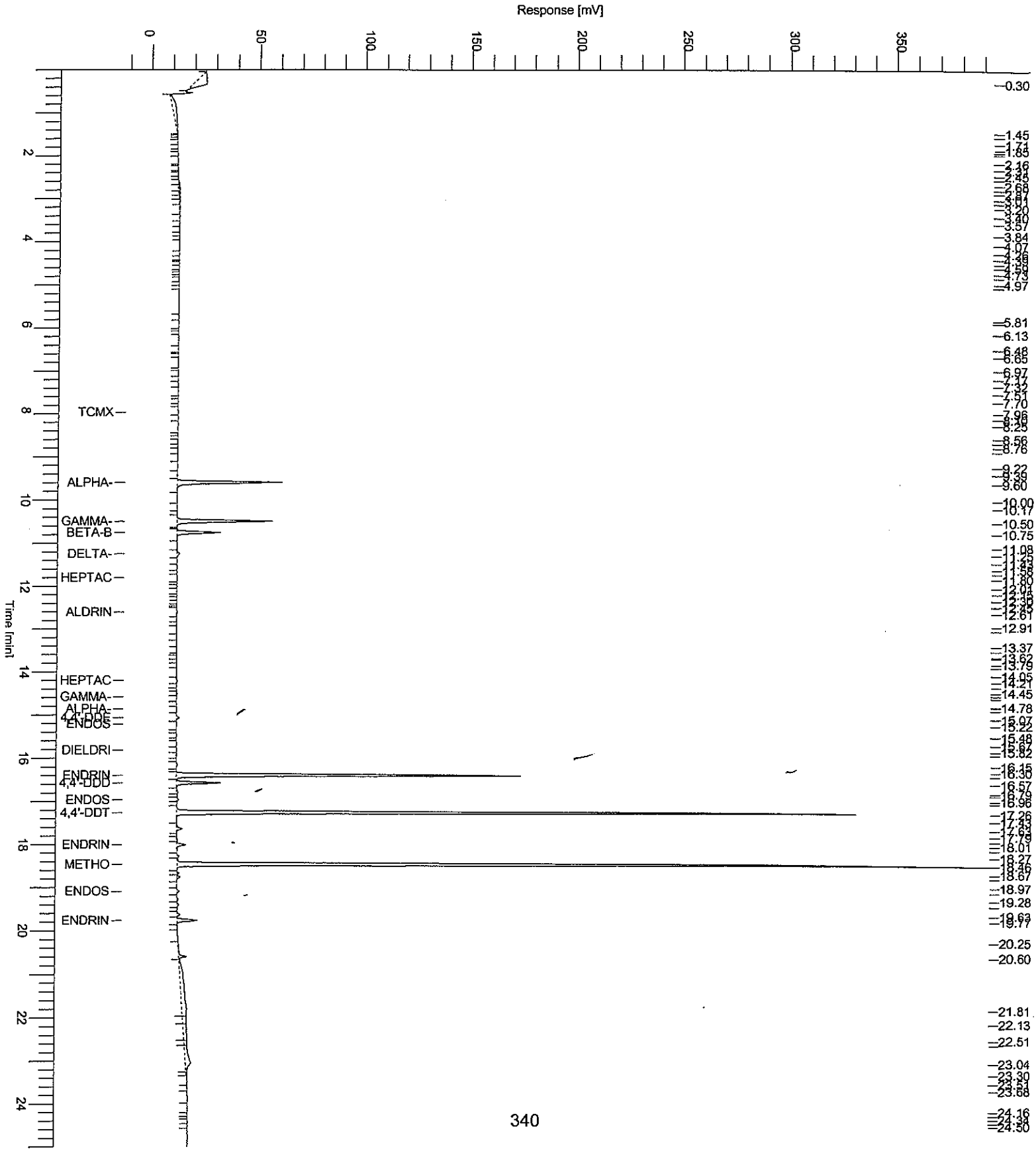
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a005.TX0

RA
9/22/04

GC23 Rtx-CLPesticides

Sample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHa\268a005.raw
Date : 9/24/04 6:18:21 PM
Method : gc23ins Time of Injection: 9/24/04 3:15:25 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -11.52 mV High Point : 393.85 mV
Scale Factor: 1.0 Plot Offset: -11.52 mV Plot Scale: 405.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 9/24/04 6:18:22 PM
Data Acquisition Time : 9/24/04 3:15:25 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b005.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

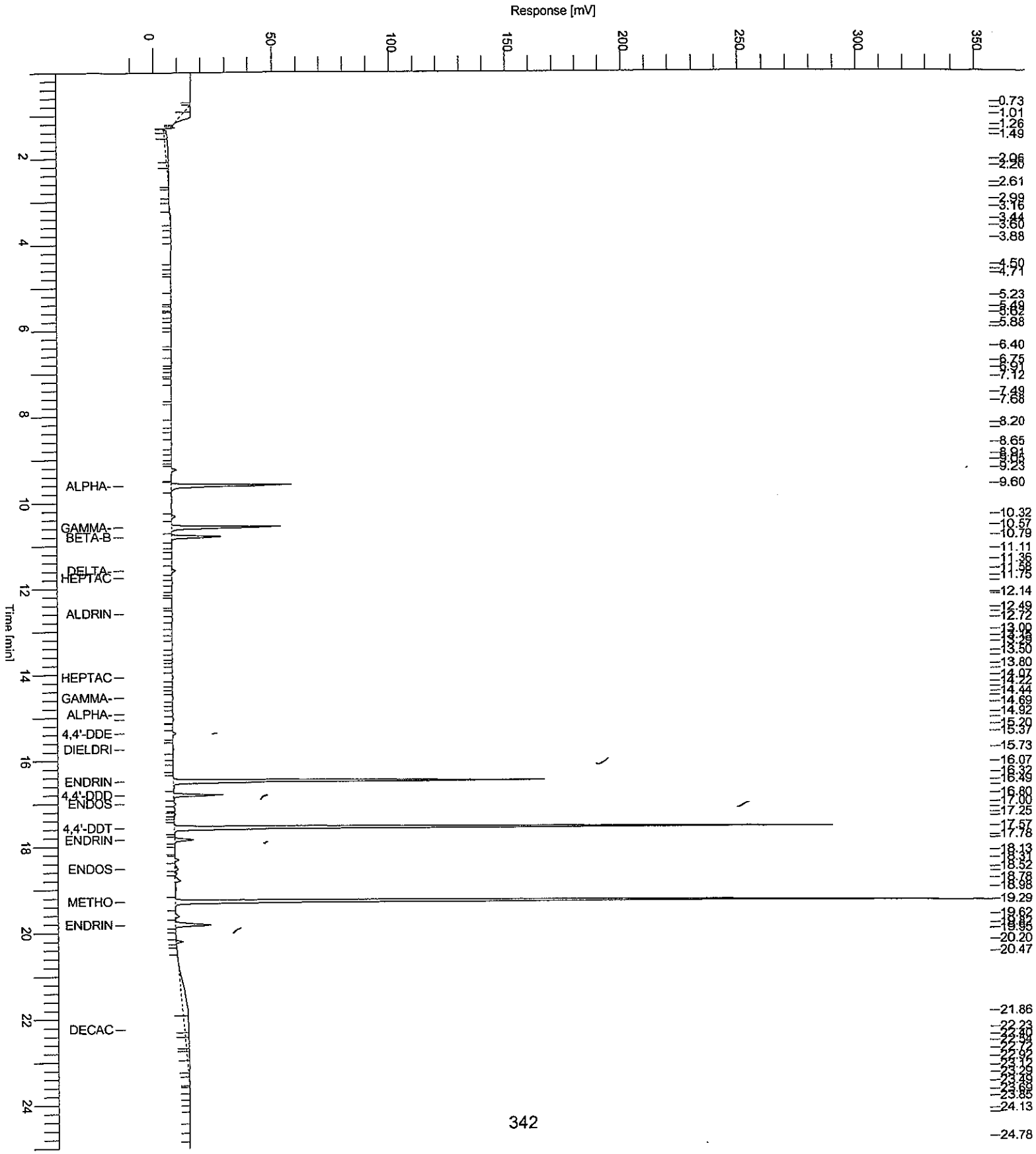
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.936	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.603	152546.00	8.1935	1.000	1	8.19
gamma-BHC	10.571	143093.00	8.4905	1.000	1	8.49
beta-BHC	10.795	66219.00	8.7835	1.000	1	8.78
delta-BHC	11.581	5548.45	0.3138	1.000	1	0.31
Heptachlor	11.750	535.24	0.0462	1.000	1	0.05
Aldrin	12.589	670.72	0.0431	1.000	1	0.04
Heptachlor epoxide	14.066	1327.50	0.0928	1.000	1	0.09
gamma-Chlordane	14.542	1529.97	0.1051	1.000	1	0.11
alpha-Chlordane	14.917	1055.47	0.0756	1.000	1	0.08
Endosulfan I	15.046	1699.53	0.1292	1.000	1	0.13
4,4'-DDE	15.370	4444.64	0.3330	1.000	1	0.33
Dieldrin	15.734	1467.50	0.1061	1.000	1	0.11
Endrin	16.486	442143.64	42.5198	1.000	1	42.52
4,4'-DDD	16.801	56719.37	5.3628	1.000	1	5.36
Endosulfan II	17.005	3305.99	0.2780	1.000	1	0.28
4,4'-DDT	17.571	761333.83	79.2155	1.000	1	79.22
Endrin aldehyde	17.844	25617.34	2.5959	1.000	1	2.60
Endosulfan sulfate	18.520	6871.83	0.6231	1.000	1	0.62
Methoxychlor	19.285	879850.02	224.0785	1.000	1	224.08
Endrin ketone	19.818	54893.74	4.7396	1.000	1	4.74
Decachlorobiphenyl	22.235	44532.94	6.9266	1.000	1	6.93
		2655405.71	393.0521			393.05

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b005.TX0

GC23 Rtx-CLPesticides2

Sample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHb\268b005
Date : 9/24/04 6:18:23 PM
Method : gc23ins Time of Injection: 9/24/04 3:15:25 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -13.43 mV High Point : 356.36 mV
Scale Factor: 1.0 Plot Offset: -13.43 mV Plot Scale: 369.8 mV



Turbochrom Method File G:\gc23\Files\8081a268.mth
Printed by : pc_pest01 on: 9/27/04 4:24:18 PM
Created by : pc_pest01 on: 9/27/04 3:20:24 PM
Edited by : pc_pest01 on: 9/27/04 4:24:15 PM
Number of Times Edited : 3
Number of Times Calibrated : 132
Description: GC23

Thermo Teflon

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 7.968 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	41877.35	10996.76	----------	----------	1
2	10.0000	98152.50	26167.77	----------	----------	1
3	20.0000	184941.50	47840.29	----------	----------	1
4	40.0000	356842.50	92805.22	----------	----------	1
5	50.0000	446830.00	117965.81	----------	----------	1
6	100.0000	893753.67	239232.25	----------	----------	1
7	200.0000	1863445.50	506051.75	----------	----------	1

Average Calibration Factor = 9377.727093 (%RSD = 6.16)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 9.600 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	30541.05	8803.34	----------	----------	1
2	5.0000	73372.00	21861.90	----------	----------	1
3	10.0000	141456.50	41135.06	----------	----------	1
4	20.0000	280629.26	80608.08	----------	----------	1
5	25.0000	350599.50	102889.37	----------	----------	1
6	50.0000	711959.37	211929.15	----------	----------	1
7	100.0000	1532279.00	462165.26	----------	----------	1

Average Calibration Factor = 14529.713749 (%RSD = 3.91)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.496 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27936.58	8286.15	----------	----------	1
2	5.0000	67187.36	20327.69	----------	----------	1
3	10.0000	128141.07	37522.41	----------	----------	1
4	20.0000	253233.00	72870.97	----------	----------	1
5	25.0000	314595.00	93602.13	----------	----------	1
6	50.0000	632894.26	189703.01	----------	----------	1
7	100.0000	1370682.50	414649.81	----------	----------	1

Average Calibration Factor = 13118.575580 (%RSD = 4.37)

beta-BHC

Component Type : Single Peak Component
Retention Time : 10.758 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	12591.00	3664.74	----------	----------	1
2	5.0000	30046.00	8961.52	----------	----------	1
3	10.0000	56334.50	16549.27	----------	----------	1
4	20.0000	109354.00	32827.80	----------	----------	1
5	25.0000	134392.00	39388.64	----------	----------	1
6	50.0000	254961.00	74207.15	----------	----------	1
7	100.0000	513181.22	153625.76	----------	----------	1

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Average Calibration Factor = 5573.223165 (%RSD = 7.97)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.243 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27967.07	8386.98	----------	----------	1
2	5.0000	67426.88	20589.98	----------	----------	1
3	10.0000	126506.81	37094.97	----------	----------	1
4	20.0000	251651.57	76028.09	----------	----------	1
5	25.0000	314923.27	95482.39	----------	----------	1
6	50.0000	639543.12	194472.12	----------	----------	1
7	100.0000	1380335.96	419412.47	----------	----------	1

Average Calibration Factor = 13127.617678 (%RSD = 4.65)

Heptachlor
Component Type : Single Peak Component
Retention Time : 11.801 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	21483.00	6599.59	----------	----------	1
2	5.0000	55160.00	16625.40	----------	----------	1
3	10.0000	103492.00	31568.44	----------	----------	1
4	20.0000	206954.00	63203.46	----------	----------	1
5	25.0000	261104.50	78932.03	----------	----------	1
6	50.0000	529630.00	163344.86	----------	----------	1
7	100.0000	1180683.11	373625.59	----------	----------	1

Average Calibration Factor = 10759.144447 (%RSD = 4.85)

Aldrin
Component Type : Single Peak Component
Retention Time : 12.604 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	26283.08	8030.35	----------	----------	1
2	5.0000	63385.71	19387.57	----------	----------	1
3	10.0000	118452.07	36676.90	----------	----------	1
4	20.0000	231356.37	72254.76	----------	----------	1
5	25.0000	287408.50	87381.40	----------	----------	1
6	50.0000	577586.00	178611.37	----------	----------	1
7	100.0000	1244991.86	396604.21	----------	----------	1

Average Calibration Factor = 12104.240960 (%RSD = 5.39)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 14.204 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	25135.19	7786.33	----------	----------	1
2	5.0000	59879.00	18623.07	----------	----------	1
3	10.0000	110873.36	35120.38	----------	----------	1
4	20.0000	214571.95	68452.05	----------	----------	1
5	25.0000	267076.46	82480.11	----------	----------	1
6	50.0000	530187.12	165601.76	----------	----------	1
7	100.0000	1131811.35	363899.69	----------	----------	1

Average Calibration Factor = 11280.606231 (%RSD = 6.57)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 14.524 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24734.09	7610.83	----------	----------	1
2	5.0000	59688.50	18629.91	----------	----------	1
3	10.0000	110657.77	34725.88	----------	----------	1
4	20.0000	216200.00	68868.16	----------	----------	1
5	25.0000	271529.00	84639.91	----------	----------	1
6	50.0000	543288.27	169527.65	----------	----------	1
7	100.0000	1181650.00	379270.94	----------	----------	1

Average Calibration Factor = 11389.135588 (%RSD = 5.59)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 14.862 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24465.04	7732.89	----------	----------	1
2	5.0000	58539.87	18677.44	----------	----------	1
3	10.0000	106491.74	33191.65	----------	----------	1
4	20.0000	209076.08	64541.00	----------	----------	1
5	25.0000	261242.50	83659.41	----------	----------	1
6	50.0000	521750.00	168224.14	----------	----------	1
7	100.0000	1126896.00	366118.53	----------	----------	1

Average Calibration Factor = 11028.161825 (%RSD = 6.55)

4,4'-DDE

Component Type : Single Peak Component
Retention Time : 15.068 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	46135.48	15478.70	----------	----------	1
2	10.0000	111988.00	37292.95	----------	----------	1
3	20.0000	205958.00	69215.10	----------	----------	1
4	40.0000	420333.00	142162.82	----------	----------	1
5	50.0000	536073.50	180467.74	----------	----------	1
6	100.0000	1128213.00	384551.78	----------	----------	1
7	200.0000	2164860.00	718728.39	----------	----------	1

Average Calibration Factor = 10909.542084 (%RSD = 4.08)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 15.210 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23277.41	7236.04	----------	----------	1
2	5.0000	55405.00	17482.49	----------	----------	1
3	10.0000	101338.00	31194.01	----------	----------	1
4	20.0000	198674.00	62069.39	----------	----------	1
5	25.0000	246126.50	78248.25	----------	----------	1
6	50.0000	483967.00	153602.67	----------	----------	1
7	100.0000	1036593.50	327577.70	----------	----------	1

Average Calibration Factor = 10382.505876 (%RSD = 6.94)

Dieldrin
Component Type : Single Peak Component
Retention Time : 15.816 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	48513.36	15736.81	----------	----------	1
2	10.0000	118107.37	37830.25	----------	----------	1
3	20.0000	216265.02	69211.42	----------	----------	1
4	40.0000	437838.39	140201.16	----------	----------	1
5	50.0000	552437.60	179761.73	----------	----------	1
6	100.0000	1146479.96	377138.94	----------	----------	1
7	200.0000	2167600.37	691266.05	----------	----------	1

Average Calibration Factor = 11292.834316 (%RSD = 4.59)

Endrin
Component Type : Single Peak Component
Retention Time : 16.397 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	37596.61	11941.34	----------	----------	1
2	10.0000	91779.00	29245.79	----------	----------	1
3	20.0000	163958.00	51177.82	----------	----------	1
4	40.0000	333148.50	103490.87	----------	----------	1
5	50.0000	423147.00	135852.88	----------	----------	1
6	100.0000	882917.00	288425.91	----------	----------	1
7	200.0000	1750568.00	554242.93	----------	----------	1

Average Calibration Factor = 8735.516290 (%RSD = 5.06)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 16.570 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	41007.88	13407.44	----------	----------	1
2	10.0000	98614.50	32271.12	----------	----------	1
3	20.0000	182045.00	60883.58	----------	----------	1
4	40.0000	358475.00	121152.51	----------	----------	1
5	50.0000	457281.00	149159.94	----------	----------	1
6	100.0000	952203.50	319317.60	----------	----------	1
7	200.0000	1853366.50	615922.94	----------	----------	1

Average Calibration Factor = 9444.576113 (%RSD = 4.93)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 16.964 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	43399.57	13754.89	----------	----------	1
2	10.0000	103444.91	32790.90	----------	----------	1
3	20.0000	185627.76	57651.13	----------	----------	1
4	40.0000	370021.74	113765.72	----------	----------	1
5	50.0000	468770.52	150824.40	----------	----------	1
6	100.0000	971191.44	316770.56	----------	----------	1
7	200.0000	1887420.15	592989.99	----------	----------	1

Average Calibration Factor = 9750.105796 (%RSD = 6.31)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.262 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	29873.49	9242.72	----------	----------	1
2	10.0000	76507.00	23999.42	----------	----------	1
3	20.0000	133198.00	40609.28	----------	----------	1
4	40.0000	294846.36	91645.86	----------	----------	1
5	50.0000	378184.00	123943.58	----------	----------	1
6	100.0000	826827.61	279385.51	----------	----------	1
7	200.0000	1720461.96	563921.16	----------	----------	1

Average Calibration Factor = 7654.913980 (%RSD = 8.24)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 18.012 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	34722.73	10848.47	----------	----------	1
2	10.0000	82799.52	26126.82	----------	----------	1
3	20.0000	147796.32	45263.09	----------	----------	1
4	40.0000	290735.38	89514.22	----------	----------	1
5	50.0000	363905.63	114610.09	----------	----------	1
6	100.0000	727805.36	231447.75	----------	----------	1
7	200.0000	1492262.49	468687.65	----------	----------	1

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Average Calibration Factor = 7662.330515 (%RSD = 7.50)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 18.465 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	70731.60	23821.12	----------	----------	1
2	50.0000	177148.85	59234.88	----------	----------	1
3	100.0000	301359.77	100417.70	----------	----------	1
4	200.0000	696855.37	232152.25	----------	----------	1
5	250.0000	921625.12	317862.93	----------	----------	1
6	500.0000	1738216.76	582379.17	----------	----------	1
7	1000.0000	2916816.84	920678.59	----------	----------	1

Average Calibration Factor = 3379.597523 (%RSD = 8.66)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 19.093 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	38188.01	11927.44	----------	----------	1
2	10.0000	92054.72	28606.60	----------	----------	1
3	20.0000	162615.81	50690.66	----------	----------	1
4	40.0000	323854.69	101070.45	----------	----------	1
5	50.0000	411725.52	129736.41	----------	----------	1
6	100.0000	844819.02	269787.61	----------	----------	1
7	200.0000	1729315.46	537166.91	----------	----------	1

Average Calibration Factor = 8615.558659 (%RSD = 6.52)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 19.771 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	46364.53	14331.19	----------	----------	1
2	10.0000	111701.59	34278.42	----------	----------	1
3	20.0000	198861.12	61843.87	----------	----------	1
4	40.0000	401115.34	125813.66	----------	----------	1
5	50.0000	511827.06	156187.15	----------	----------	1
6	100.0000	1052137.10	327434.03	----------	----------	1
7	200.0000	1980717.61	604973.65	----------	----------	1

Average Calibration Factor = 10484.818843 (%RSD = 6.27)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.706 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	70354.67	24657.13	----------	----------	1
3	20.0000	116669.22	42549.15	----------	----------	1
4	40.0000	248040.98	90348.99	----------	----------	1
5	50.0000	319222.30	112484.03	----------	----------	1
6	100.0000	670664.35	243406.70	----------	----------	1
7	200.0000	1400881.71	501115.92	----------	----------	1
1	4.0000	29325.20	10336.63	----------	----------	1

Average Calibration Factor = 6642.393021 (%RSD = 7.97)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41877.35	10996.76	4.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98152.50	26167.77	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184941.50	47840.29	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
356842.50	92805.22	40.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
446830.00	117965.81	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
893753.67	239232.25	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1863445.50	506051.75	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30541.05	8803.34	2.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73372.00	21861.90	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
141456.50	41135.06	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
280629.26	80608.08	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
350599.50	102889.37	25.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
711959.37	211929.15	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1532279.00	462165.26	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : gamma-BHC
Level : 1

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27936.58	8286.15	2.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67187.36	20327.69	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128141.07	37522.41	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
253233.00	72870.97	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314595.00	93602.13	25.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
632894.26	189703.01	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1370682.50	414649.81	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12591.00	3664.74	2.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30046.00	8961.52	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56334.50	16549.27	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109354.00	32827.80	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
134392.00	39388.64	25.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
254961.00	74207.15	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
513181.22	153625.76	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : delta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27967.07	8386.98	2.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67426.88	20589.98	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126506.81	37094.97	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251651.57	76028.09	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314923.27	95482.39	25.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
639543.12	194472.12	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1380335.96	419412.47	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Heptachlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21483.00	6599.59	2.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55160.00	16625.40	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103492.00	31568.44	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
206954.00	63203.46	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
261104.50	78932.03	25.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
529630.00	163344.86	50.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1180683.11	373625.59	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26283.08	8030.35	2.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63385.71	19387.57	5.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118452.07	36676.90	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
231356.37	72254.76	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
287408.50	87381.40	25.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
577586.00	178611.37	50.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1244991.86	396604.21	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25135.19	7786.33	2.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59879.00	18623.07	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
110873.36	35120.38	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
214571.95	68452.05	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
267076.46	82480.11	25.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
530187.12	165601.76	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1131811.35	363899.69	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24734.09	7610.83	2.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59688.50	18629.91	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
110657.77	34725.88	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216200.00	68868.16	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
271529.00	84639.91	25.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
543288.27	169527.65	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1181650.00	379270.94	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24465.04	7732.89	2.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58539.87	18677.44	5.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106491.74	33191.65	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209076.08	64541.00	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
261242.50	83659.41	25.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
521750.00	168224.14	50.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1126896.00	366118.53	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46135.48	15478.70	4.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
111988.00	37292.95	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205958.00	69215.10	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
420333.00	142162.82	40.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
536073.50	180467.74	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1128213.00	384551.78	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2164860.00	718728.39	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Endosulfan I
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23277.41	7236.04	2.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55405.00	17482.49	5.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101338.00	31194.01	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
198674.00	62069.39	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
246126.50	78248.25	25.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
483967.00	153602.67	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1036593.50	327577.70	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48513.36	15736.81	4.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118107.37	37830.25	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216265.02	69211.42	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
437838.39	140201.16	40.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
552437.60	179761.73	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1146479.96	377138.94	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2167600.37	691266.05	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37596.61	11941.34	4.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91779.00	29245.79	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
163958.00	51177.82	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
333148.50	103490.87	40.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
423147.00	135852.88	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
882917.00	288425.91	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1750568.00	554242.93	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : 4,4'-DDD
Level : 1

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41007.88	13407.44	4.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98614.50	32271.12	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182045.00	60883.58	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
358475.00	121152.51	40.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
457281.00	149159.94	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
952203.50	319317.60	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1853366.50	615922.94	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43399.57	13754.89	4.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103444.91	32790.90	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185627.76	57651.13	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
370021.74	113765.72	40.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
468770.52	150824.40	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
971191.44	316770.56	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1887420.15	592989.99	200.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29873.49	9242.72	4.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
76507.00	23999.42	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133198.00	40609.28	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
294846.36	91645.86	40.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
378184.00	123943.58	50.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
826827.61	279385.51	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1720461.96	563921.16	200.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34722.73	10848.47	4.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82799.52	26126.82	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
147796.32	45263.09	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290735.38	89514.22	40.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
363905.63	114610.09	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
727805.36	231447.75	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1492262.49	468687.65	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70731.60	23821.12	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
177148.85	59234.88	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
301359.77	100417.70	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
696855.37	232152.25	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
921625.12	317862.93	250.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1738216.76	582379.17	500.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2916816.84	920678.59	1000.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38188.01	11927.44	4.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92054.72	28606.60	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
162615.81	50690.66	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
323854.69	101070.45	40.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
411725.52	129736.41	50.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
844819.02	269787.61	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1729315.46	537166.91	200.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Endrin ketone
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46364.53	14331.19	4.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
111701.59	34278.42	10.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
198861.12	61843.87	20.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
401115.34	125813.66	40.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
511827.06	156187.15	50.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1052137.10	327434.03	100.0000	---------	---------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

9/27/04 4:24:18 PM Method: G:\gc23\Files\8081a268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1980717.61	604973.65	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Component : Decachlorobiphenyl
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70354.67	24657.13	10.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116669.22	42549.15	20.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
248040.98	90348.99	40.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
319222.30	112484.03	50.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
670664.35	243406.70	100.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1400881.71	501115.92	200.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a017p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29325.20	10336.63	4.0000	----------	----------	9/27/04	4:24:06 PM	G:\gc23\CHA\268a011p.rst

Turbochrom Method File G:\gc23\Files\8081b268.mth
Printed by : pc_pest01 on: 9/27/04 4:24:31 PM
Created by : pc_pest01 on: 9/27/04 3:14:56 PM
Edited by : pc_pest01 on: 9/27/04 4:20:51 PM
Number of Times Edited : 5
Number of Times Calibrated : 122
Description: GC 23

for raw 5/2 8/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX

Component Type : Single Peak Component
Retention Time : 7.903 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	41422.00	11679.92	----------	----------	1
2	10.0000	101902.00	27858.82	----------	----------	1
3	20.0000	184599.00	50941.02	----------	----------	1
4	40.0000	370029.79	101330.82	----------	----------	1
5	50.0000	440260.00	121204.98	----------	----------	1
6	100.0000	905575.74	255632.34	----------	----------	1
7	200.0000	1725855.10	484730.11	----------	----------	1

Average Calibration Factor = 9359.518246 (%RSD = 7.09)

alpha-BHC

Component Type : Single Peak Component
Retention Time : 9.604 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	30024.00	9003.51	----------	----------	1
2	5.0000	75335.00	22468.09	----------	----------	1
3	10.0000	139497.50	42239.44	----------	----------	1
4	20.0000	286265.47	87147.93	----------	----------	1
5	25.0000	340191.00	101851.68	----------	----------	1
6	50.0000	707733.00	215447.64	----------	----------	1
7	100.0000	1406139.00	430924.48	----------	----------	1

Average Calibration Factor = 14309.387654 (%RSD = 3.80)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.574 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27671.00	8260.16	----------	----------	1
2	5.0000	69039.34	21265.32	----------	----------	1
3	10.0000	126942.90	38480.97	----------	----------	1
4	20.0000	256768.42	79070.02	----------	----------	1
5	25.0000	305917.94	92246.70	----------	----------	1
6	50.0000	629550.87	190255.20	----------	----------	1
7	100.0000	1256411.66	385873.87	----------	----------	1

Average Calibration Factor = 12938.275961 (%RSD = 4.87)

beta-BHC

Component Type : Single Peak Component
Retention Time : 10.795 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	13392.00	4105.96	----------	----------	1
2	5.0000	32354.50	10210.02	----------	----------	1
3	10.0000	57994.00	17542.07	----------	----------	1
4	20.0000	114342.71	34820.58	----------	----------	1
5	25.0000	135201.78	41596.05	----------	----------	1
6	50.0000	268124.00	82075.68	----------	----------	1
7	100.0000	508035.50	154017.95	----------	----------	1

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Average Calibration Factor = 5790.620194 (%RSD = 10.27)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.581 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27926.27	8962.87	----------	----------	1
2	5.0000	69481.00	22587.54	----------	----------	1
3	10.0000	125971.00	39996.70	----------	----------	1
4	20.0000	255795.00	79981.93	----------	----------	1
5	25.0000	305726.00	98852.72	----------	----------	1
6	50.0000	635154.50	205765.84	----------	----------	1
7	100.0000	1257676.50	406439.09	----------	----------	1

Average Calibration Factor = 12965.011078 (%RSD = 5.26)

Heptachlor
Component Type : Single Peak Component
Retention Time : 11.751 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	16070.48	5029.67	----------	----------	1
2	5.0000	42990.88	13326.07	----------	----------	1
3	10.0000	82484.00	24866.92	----------	----------	1
4	20.0000	173839.45	52848.67	----------	----------	1
5	25.0000	208662.50	63934.15	----------	----------	1
6	50.0000	445343.00	137801.79	----------	----------	1
7	100.0000	910585.47	290976.24	----------	----------	1

Average Calibration Factor = 8561.857989 (%RSD = 4.41)

Aldrin
Component Type : Single Peak Component
Retention Time : 12.589 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	26168.45	8227.40	----------	----------	1
2	5.0000	66208.47	20636.09	----------	----------	1
3	10.0000	119577.07	38021.47	----------	----------	1
4	20.0000	240870.66	77286.89	----------	----------	1
5	25.0000	285824.54	88753.71	----------	----------	1
6	50.0000	586773.66	183818.01	----------	----------	1
7	100.0000	1161979.50	371671.11	----------	----------	1

Average Calibration Factor = 12159.343987 (%RSD = 5.89)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 14.068 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24783.58	8232.62	----------	----------	1
2	5.0000	61884.28	20436.24	----------	----------	1
3	10.0000	110402.50	36657.90	----------	----------	1
4	20.0000	212804.50	71332.94	----------	----------	1
5	25.0000	262063.33	86423.55	----------	----------	1
6	50.0000	528295.00	175241.44	----------	----------	1
7	100.0000	1039536.00	347975.13	----------	----------	1

Average Calibration Factor = 11127.558927 (%RSD = 7.93)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 14.545 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	25235.79	8291.60	----------	----------	1
2	5.0000	63142.46	21088.51	----------	----------	1
3	10.0000	112848.94	36313.26	----------	----------	1
4	20.0000	226050.87	73083.84	----------	----------	1
5	25.0000	270539.00	89796.29	----------	----------	1
6	50.0000	556024.28	183551.79	----------	----------	1
7	100.0000	1102963.00	362594.63	----------	----------	1

Average Calibration Factor = 11543.642897 (%RSD = 6.54)

alpha-Chlordane
Component Type : Single Peak Component
Retention Time : 14.918 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24917.01	8403.46	----------	----------	1
2	5.0000	61397.00	20813.77	----------	----------	1
3	10.0000	108656.00	36927.20	----------	----------	1
4	20.0000	217112.00	73175.66	----------	----------	1
5	25.0000	258006.00	86214.74	----------	----------	1
6	50.0000	530764.00	179065.49	----------	----------	1
7	100.0000	1050313.00	359096.59	----------	----------	1

Average Calibration Factor = 11128.250624 (%RSD = 7.82)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 15.049 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23342.49	7801.89	----------	----------	1
2	5.0000	57754.00	19461.16	----------	----------	1
3	10.0000	102329.00	34063.89	----------	----------	1
4	20.0000	204024.00	67319.86	----------	----------	1
5	25.0000	243219.00	81833.86	----------	----------	1
6	50.0000	494619.00	165409.05	----------	----------	1
7	100.0000	970901.00	326824.54	----------	----------	1

Average Calibration Factor = 10426.613662 (%RSD = 8.01)

4,4'-DDE

Component Type : Single Peak Component
Retention Time : 15.374 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	47269.00	15780.95	----------	----------	1
2	10.0000	119479.00	39175.53	----------	----------	1
3	20.0000	212107.00	72347.56	----------	----------	1
4	40.0000	435861.00	150487.88	----------	----------	1
5	50.0000	522821.00	175292.20	----------	----------	1
6	100.0000	1104030.00	367313.81	----------	----------	1
7	200.0000	1968850.00	648579.66	----------	----------	1

Average Calibration Factor = 10943.999286 (%RSD = 6.82)

Dieldrin

Component Type : Single Peak Component
Retention Time : 15.735 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	48912.00	16272.19	----------	----------	1
2	10.0000	122937.00	40900.38	----------	----------	1
3	20.0000	217448.00	72697.35	----------	----------	1
4	40.0000	441988.15	147341.61	----------	----------	1
5	50.0000	527900.12	173809.97	----------	----------	1
6	100.0000	1104459.49	366645.77	----------	----------	1
7	200.0000	1934143.77	632261.05	----------	----------	1

Average Calibration Factor = 11102.445694 (%RSD = 8.30)

Endrin

Component Type : Single Peak Component
Retention Time : 16.487 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	35343.00	11473.71	----------	----------	1
2	10.0000	89605.46	28683.69	----------	----------	1
3	20.0000	156881.46	51518.75	----------	----------	1
4	40.0000	325175.42	106502.99	----------	----------	1
5	50.0000	384104.32	121561.42	----------	----------	1
6	100.0000	822294.92	264284.78	----------	----------	1
7	200.0000	1498405.24	480577.03	----------	----------	1

Average Calibration Factor = 8166.688037 (%RSD = 6.85)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 16.801 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	40600.00	13957.77	----------	----------	1
2	10.0000	101919.00	34892.73	----------	----------	1
3	20.0000	179463.00	62487.28	----------	----------	1
4	40.0000	360902.57	125589.76	----------	----------	1
5	50.0000	433026.86	148096.53	----------	----------	1
6	100.0000	910655.08	315804.20	----------	----------	1
7	200.0000	1631632.47	561757.49	----------	----------	1

Average Calibration Factor = 9180.409240 (%RSD = 8.14)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 17.010 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	43766.63	14019.85	----------	----------	1
2	10.0000	107954.73	34659.39	----------	----------	1
3	20.0000	187850.00	60573.51	----------	----------	1
4	40.0000	376572.50	122554.46	----------	----------	1
5	50.0000	449845.00	146811.49	----------	----------	1
6	100.0000	950347.68	310265.18	----------	----------	1
7	200.0000	1678962.00	520390.93	----------	----------	1

Average Calibration Factor = 9634.161271 (%RSD = 9.59)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.576 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	25863.12	8362.13	----------	----------	1
2	10.0000	67064.00	22254.58	----------	----------	1
3	20.0000	119269.00	39763.50	----------	----------	1
4	40.0000	263449.07	88347.41	----------	----------	1
5	50.0000	314190.37	105867.56	----------	----------	1
6	100.0000	743843.05	251279.49	----------	----------	1
7	200.0000	1388660.00	453605.65	----------	----------	1

Average Calibration Factor = 6626.770739 (%RSD = 7.16)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 17.849 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	35735.87	11770.97	----------	----------	1
2	10.0000	87146.08	28537.91	----------	----------	1
3	20.0000	149151.62	48157.17	----------	----------	1
4	40.0000	295232.31	95172.39	----------	----------	1
5	50.0000	352541.93	114923.74	----------	----------	1
6	100.0000	733786.76	242546.12	----------	----------	1
7	200.0000	1346281.85	436624.89	----------	----------	1

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Average Calibration Factor = 7658.154431 (%RSD = 10.91)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 18.527 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	39783.05	12836.11	----------	----------	1
2	10.0000	97187.51	31347.60	----------	----------	1
3	20.0000	165471.19	52720.68	----------	----------	1
4	40.0000	336623.24	106829.38	----------	----------	1
5	50.0000	398606.96	129664.12	----------	----------	1
6	100.0000	871215.42	287245.51	----------	----------	1
7	200.0000	1588769.76	499942.41	----------	----------	1

Average Calibration Factor = 8711.685113 (%RSD = 9.32)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 19.287 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	68189.47	22840.19	----------	----------	1
2	50.0000	167929.66	56119.77	----------	----------	1
3	100.0000	291156.93	99775.85	----------	----------	1
4	200.0000	627867.98	214071.76	----------	----------	1
5	250.0000	748203.76	246225.97	----------	----------	1
6	500.0000	1560701.20	505797.34	----------	----------	1
7	1000.0000	2493280.77	802780.56	----------	----------	1

Average Calibration Factor = 3060.924847 (%RSD = 10.06)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 19.833 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	48751.21	15755.77	----------	----------	1
2	10.0000	118187.34	38068.44	----------	----------	1
3	20.0000	201190.42	63672.49	----------	----------	1
4	40.0000	401097.65	128663.99	----------	----------	1
5	50.0000	477890.59	152812.63	----------	----------	1
6	100.0000	1012975.98	329189.28	----------	----------	1
7	200.0000	1715434.00	546643.87	----------	----------	1

Average Calibration Factor = 10336.891569 (%RSD = 12.20)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.217 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	69466.71	25524.80	----------	----------	1
3	20.0000	116696.06	42781.13	----------	----------	1
4	40.0000	227541.52	82727.23	----------	----------	1
5	50.0000	270104.32	99029.69	----------	----------	1
6	100.0000	600538.63	221959.59	----------	----------	1
7	200.0000	1028242.05	376561.44	----------	----------	1
1	4.0000	30800.50	11216.18	----------	----------	1

Average Calibration Factor = 6102.688731 (%RSD = 14.86)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41422.00	11679.92	4.0000	---------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101902.00	27858.82	10.0000	---------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184599.00	50941.02	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
370029.79	101330.82	40.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
440260.00	121204.98	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
905575.74	255632.34	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1725855.10	484730.11	200.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30024.00	9003.51	2.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75335.00	22468.09	5.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
139497.50	42239.44	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
286265.47	87147.93	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
340191.00	101851.68	25.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
707733.00	215447.64	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1406139.00	430924.48	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : gamma-BHC
Level : 1

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27671.00	8260.16	2.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69039.34	21265.32	5.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126942.90	38480.97	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
256768.42	79070.02	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
305917.94	92246.70	25.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
629550.87	190255.20	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1256411.66	385873.87	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13392.00	4105.96	2.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32354.50	10210.02	5.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57994.00	17542.07	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114342.71	34820.58	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
135201.78	41596.05	25.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
268124.00	82075.68	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
508035.50	154017.95	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : delta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27926.27	8962.87	2.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69481.00	22587.54	5.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
125971.00	39996.70	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255795.00	79981.93	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
305726.00	98852.72	25.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
635154.50	205765.84	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1257676.50	406439.09	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Heptachlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16070.48	5029.67	2.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42990.88	13326.07	5.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82484.00	24866.92	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
173839.45	52848.67	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
208662.50	63934.15	25.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
445343.00	137801.79	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
910585.47	290976.24	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26168.45	8227.40	2.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66208.47	20636.09	5.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119577.07	38021.47	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
240870.66	77286.89	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
285824.54	88753.71	25.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
586773.66	183818.01	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1161979.50	371671.11	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24783.58	8232.62	2.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61884.28	20436.24	5.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
110402.50	36657.90	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
212804.50	71332.94	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
262063.33	86423.55	25.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
528295.00	175241.44	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1039536.00	347975.13	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25235.79	8291.60	2.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63142.46	21088.51	5.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112848.94	36313.26	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226050.87	73083.84	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
270539.00	89796.29	25.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
556024.28	183551.79	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1102963.00	362594.63	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24917.01	8403.46	2.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61397.00	20813.77	5.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
108656.00	36927.20	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
217112.00	73175.66	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
258006.00	86214.74	25.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
530764.00	179065.49	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1050313.00	359096.59	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Endosulfan I
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23342.49	7801.89	2.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57754.00	19461.16	5.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102329.00	34063.89	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
204024.00	67319.86	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
243219.00	81833.86	25.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
494619.00	165409.05	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
970901.00	326824.54	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47269.00	15780.95	4.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119479.00	39175.53	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
212107.00	72347.56	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
435861.00	150487.88	40.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
522821.00	175292.20	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1104030.00	367313.81	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1968850.00	648579.66	200.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48912.00	16272.19	4.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
122937.00	40900.38	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
217448.00	72697.35	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
441988.15	147341.61	40.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
527900.12	173809.97	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1104459.49	366645.77	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1934143.77	632261.05	200.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35343.00	11473.71	4.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
89605.46	28683.69	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
156881.46	51518.75	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
325175.42	106502.99	40.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
384104.32	121561.42	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
822294.92	264284.78	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1498405.24	480577.03	200.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : 4,4'-DDD
Level : 1

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40600.00	13957.77	4.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101919.00	34892.73	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
179463.00	62487.28	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
360902.57	125589.76	40.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
433026.86	148096.53	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
910655.08	315804.20	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1631632.47	561757.49	200.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43766.63	14019.85	4.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107954.73	34659.39	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
187850.00	60573.51	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
376572.50	122554.46	40.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
449845.00	146811.49	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
950347.68	310265.18	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1678962.00	520390.93	200.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25863.12	8362.13	4.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67064.00	22254.58	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119269.00	39763.50	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
263449.07	88347.41	40.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314190.37	105867.56	50.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
743843.05	251279.49	100.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1388660.00	453605.65	200.0000	---------	---------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35735.87	11770.97	4.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
87146.08	28537.91	10.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
149151.62	48157.17	20.0000	---------	---------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
295232.31	95172.39	40.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
352541.93	114923.74	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
733786.76	242546.12	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1346281.85	436624.89	200.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39783.05	12836.11	4.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
97187.51	31347.60	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
165471.19	52720.68	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
336623.24	106829.38	40.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
398606.96	129664.12	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
871215.42	287245.51	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1588769.76	499942.41	200.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68189.47	22840.19	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
167929.66	56119.77	50.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
291156.93	99775.85	100.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
627867.98	214071.76	200.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
748203.76	246225.97	250.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1560701.20	505797.34	500.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2493280.77	802780.56	1000.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Endrin ketone
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48751.21	15755.77	4.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118187.34	38068.44	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
201190.42	63672.49	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
401097.65	128663.99	40.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
477890.59	152812.63	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1012975.98	329189.28	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

9/27/04 4:24:31 PM Method: G:\gc23\Files\8081b268.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1715434.00	546643.87	200.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Component : Decachlorobiphenyl
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69466.71	25524.80	10.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b012p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116696.06	42781.13	20.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b013p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
227541.52	82727.23	40.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b014p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
270104.32	99029.69	50.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b015p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
600538.63	221959.59	100.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b016p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1028242.05	376561.44	200.0000	----------	----------	9/27/04	4:20:20 PM	G:\gc23\CHB\268b017p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30800.50	11216.18	4.0000	----------	----------	9/27/04	4:20:19 PM	G:\gc23\CHB\268b011p.rst

Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 9/27/04 5:58:23 PM
Data Acquisition Time : 9/24/04 7:13:29 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b010.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.928	165.56	0.0177	1.000	1	0.02
alpha-BHC	9.608	273.00	0.0191	1.000	1	0.02
gamma-BHC	10.590	642.00	0.0496	1.000	1	0.05
beta-BHC	10.800	550.72	0.0951	1.000	1	0.10
delta-BHC	11.586	1604.44	0.1238	1.000	1	0.12
Heptachlor	11.756	261.27	0.0305	1.000	1	0.03
Aldrin	12.550	804.94	0.0662	1.000	1	0.07
Heptachlor epoxide	14.050	3605.00	0.3240	1.000	1	0.32
gamma-Chlordane	14.550	4029.82	0.3491	1.000	1	0.35
alpha-Chlordane	14.934	502.00	0.0451	1.000	1	0.05
Endosulfan I	15.066	435.37	0.0418	1.000	1	0.04
4,4'-DDE	15.380	913.00	0.0834	1.000	1	0.08
Dieldrin	15.747	453.65	0.0409	1.000	1	0.04
Endrin	16.499	9819.84	1.2024	1.000	1	1.20
4,4'-DDD	16.814	4650.36	0.5066	1.000	1	0.51
Endosulfan II	17.016	1734.06	0.1800	1.000	1	0.18
4,4'-DDT	17.580	337.94	0.0510	1.000	1	0.05
Endrin aldehyde	17.853	2168.15	0.2831	1.000	1	0.28
Endosulfan sulfate	18.538	2297.20	0.2637	1.000	1	0.26
Methoxychlor	19.250	962.38	0.3144	1.000	1	0.31
Endrin ketone	19.839	1146.00	0.1109	1.000	1	0.11
Decachlorobiphenyl	22.220	12533.62	2.0538	1.000	1	2.05
		49890.31	6.2520			6.25

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b010.TX0

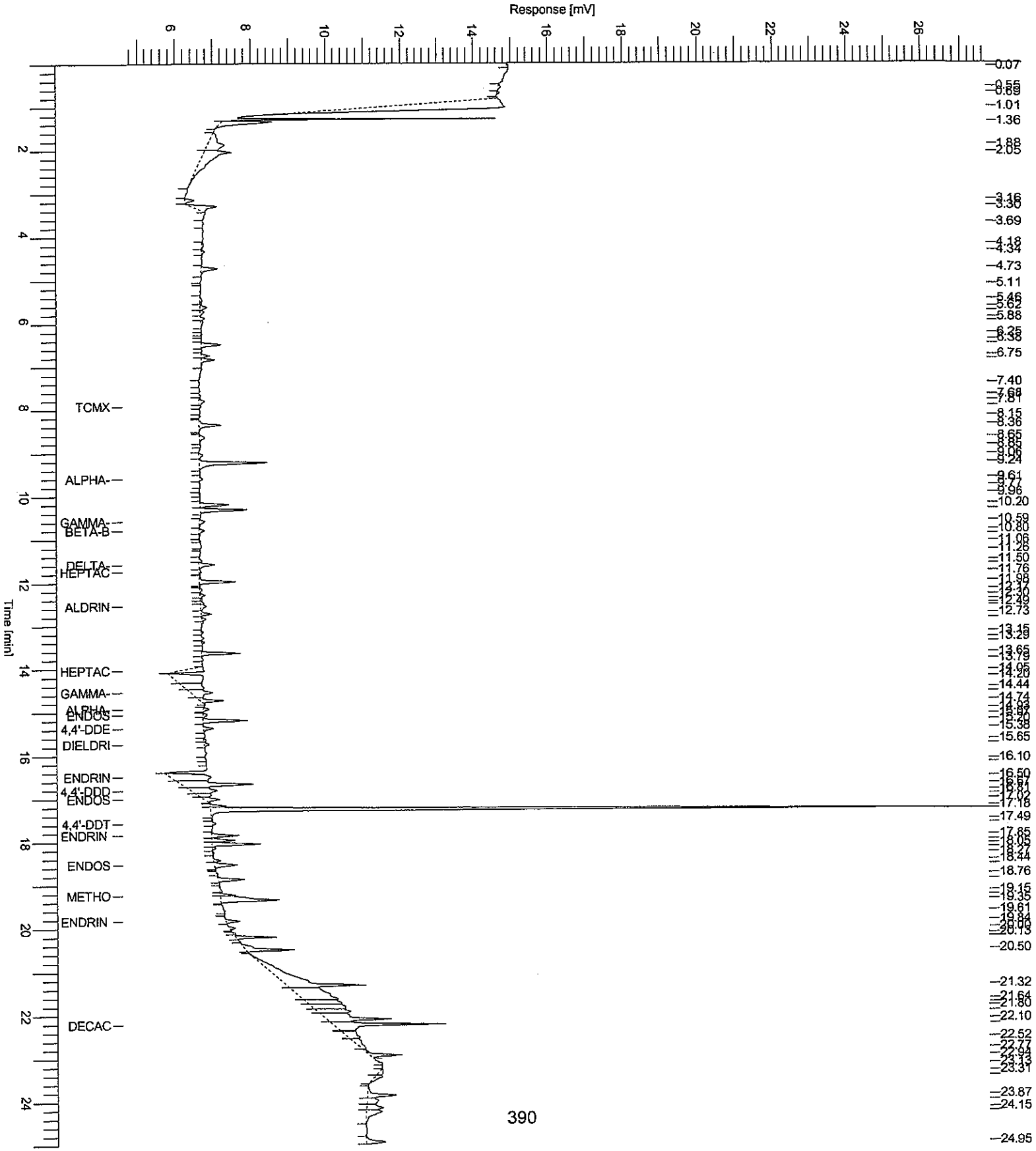
9/27/08

GC23 Rtx-CLPesticides2

Sample Name : hex
FileName : G:\gc23\CHb\268b010
Date : 9/27/04 5:58:24 PM
Method : gc23ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #:

Time of Injection: 9/24/04 7:13:29 PM
End Time : 25.00 min
Low Point : 4.61 mV
High Point : 27.72 mV
Plot Offset: 4.61 mV
Plot Scale: 23.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 9/27/04 5:58:25 PM
Data Acquisition Time : 9/24/04 7:13:29 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a010.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

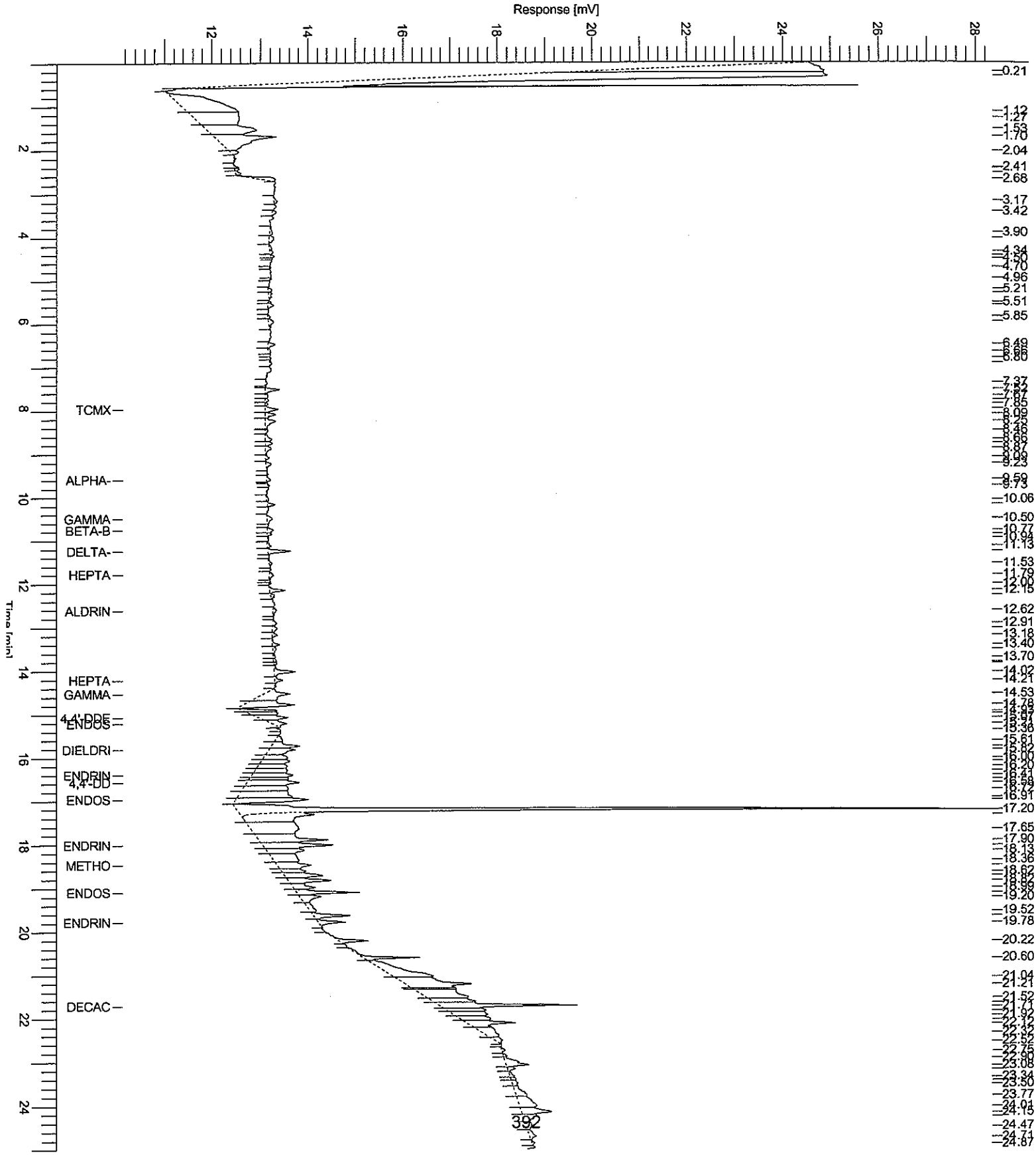
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.971	1120.06	0.1194	1.000	1	0.12
alpha-BHC	9.593	397.00	0.0273	1.000	1	0.03
gamma-BHC	10.497	734.50	0.0560	1.000	1	0.06
beta-BHC	10.766	612.31	0.1099	1.000	1	0.11
delta-BHC	11.252	1697.73	0.1293	1.000	1	0.13
Heptachlor	11.790	541.50	0.0503	1.000	1	0.05
Aldrin	12.620	506.00	0.0418	1.000	1	0.04
Heptachlor epoxide	14.215	686.82	0.0609	1.000	1	0.06
gamma-Chlordane	14.531	5827.66	0.5117	1.000	1	0.51
alpha-Chlordane	14.862	0.00	0.0000	1.000	1	0.00
4,4'-DDE	15.073	3459.82	0.3171	1.000	1	0.32
Endosulfan I	15.215	1883.51	0.1814	1.000	1	0.18
Dieldrin	15.818	3820.60	0.3383	1.000	1	0.34
Endrin	16.406	4588.43	0.5253	1.000	1	0.53
4,4'-DDD	16.580	7206.22	0.7630	1.000	1	0.76
Endosulfan II	16.970	8746.78	0.8971	1.000	1	0.90
4,4'-DDT	17.262	0.00	0.0000	1.000	1	0.00
Endrin aldehyde	18.017	8268.13	1.0791	1.000	1	1.08
Methoxychlor	18.473	4994.96	1.4780	1.000	1	1.48
Endosulfan sulfate	19.100	4797.47	0.5568	1.000	1	0.56
Endrin ketone	19.785	2139.79	0.2041	1.000	1	0.20
Decachlorobiphenyl	21.714	11759.20	1.7703	1.000	1	1.77
		73788.47	9.2172			9.22

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a010.TX0

GC23 Rtx-CLPesticides

ample Name : hex Sample #: Page 1 of 1
ileName : G:\gc23\CHa\268a010.raw
ate : 9/27/04 5:58:26 PM
lethod : gc23ins Time of Injection: 9/24/04 7:13:29 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 10.15 mV High Point : 28.36 mV
cale Factor: 1.0 Plot Offset: 10.15 mV Plot Scale: 18.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0513,level_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 9/27/04 3:39:38 PM
Data Acquisition Time : 9/24/04 7:42:50 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a011p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.970	41877.35	3.7372	1.000	1	3.74
alpha-BHC	9.601	30541.05	1.7508	1.000	1	1.75
gamma-BHC	10.498	27936.58	1.7766	1.000	1	1.78
beta-BHC	10.761	12591.00	1.8612	1.000	1	1.86
delta-BHC	11.246	27967.07	1.6995	1.000	1	1.70
Heptachlor	11.802	21483.00	1.5334	1.000	1	1.53
Aldrin	12.605	26283.08	1.8386	1.000	1	1.84
Heptachlor epoxide	14.205	25135.19	1.9143	1.000	1	1.91
gamma-Chlordane	14.523	24734.09	1.8465	1.000	1	1.85
alpha-Chlordane	14.864	24465.04	1.9241	1.000	1	1.92
4,4'-DDE	15.068	46135.48	3.7820	1.000	1	3.78
Endosulfan I	15.212	23277.41	1.9264	1.000	1	1.93
Dieldrin	15.817	48513.36	3.7972	1.000	1	3.80
Endrin	16.398	37596.61	3.5619	1.000	1	3.56
4,4'-DDD	16.570	41007.88	4.2069	1.000	1	4.21
Endosulfan II	16.965	43399.57	3.9324	1.000	1	3.93
4,4'-DDT	17.264	29873.49	3.0035	1.000	1	3.00
Endrin aldehyde	18.013	34722.73	3.7202	1.000	1	3.72
Methoxychlor	18.466	70731.60	17.1706	1.000	1	17.17
Endosulfan sulfate	19.095	38188.01	3.8300	1.000	1	3.83
Endrin ketone	19.771	46364.53	4.0748	1.000	1	4.07
Decachlorobiphenyl	21.712	29325.20	4.2744	1.000	1	4.27
		752149.34	77.1623			77.16

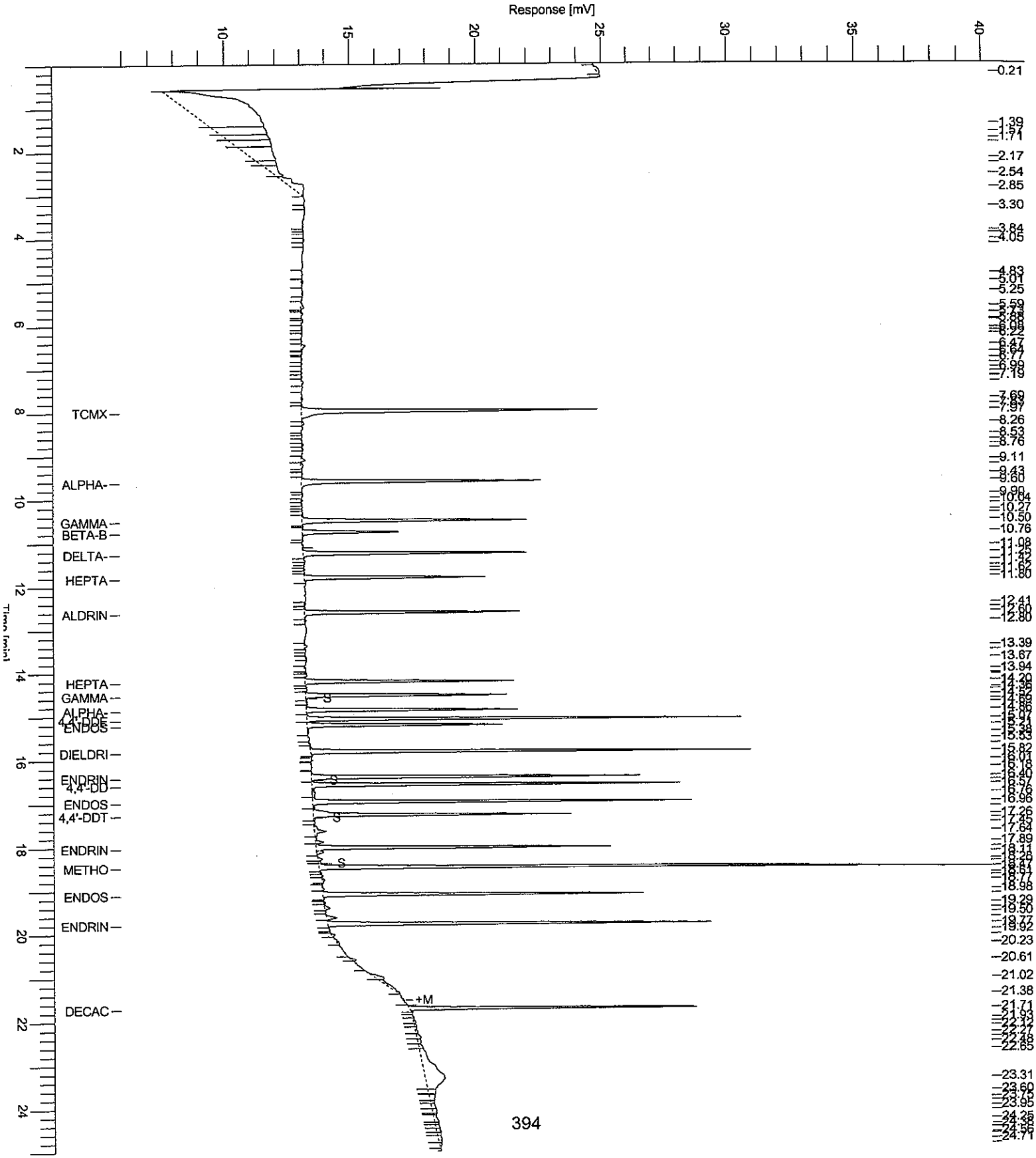
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a011p.TX0

RW
9/27/04

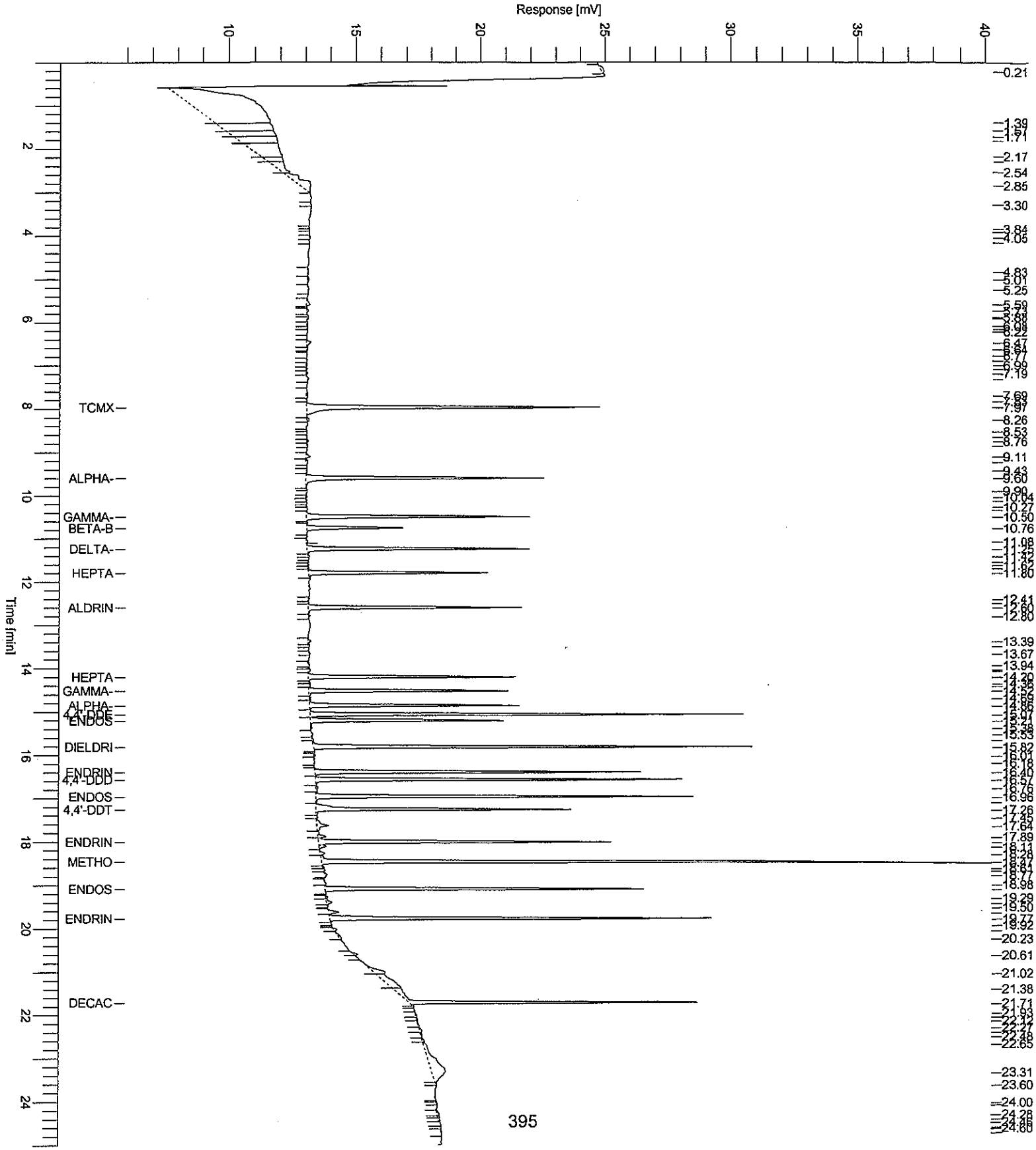
GC23 Rtx-CLPesticides

ample Name : ical,04ws0513,level_1 Sample #:
leName : G:\gc23\CHa\268a011.raw
ate : 9/27/04 3:39:41 PM
ethod :
Time of Injection: 9/24/04 7:42:50 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 5.88 mV High Point : 40.31 mV
ot Offset: 5.88 mV Plot Scale: 34.4 mV



GC23 Rtx-CLPesticides

Sample Name : ical,04ws0513,level_1 Sample #: Page 1 of 1
FileName : G:\gc23\CHa\268a011.raw
Date : 9/27/04 3:29:12 PM
Method : gc23ins Time of Injection: 9/24/04 7:42:50 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.97 mV High Point : 40.31 mV
Scale Factor: 1.0 Plot Offset: 5.97 mV Plot Scale: 34.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0513,level_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 9/27/04 3:43:51 PM
Data Acquisition Time : 9/24/04 7:42:50 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b011p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

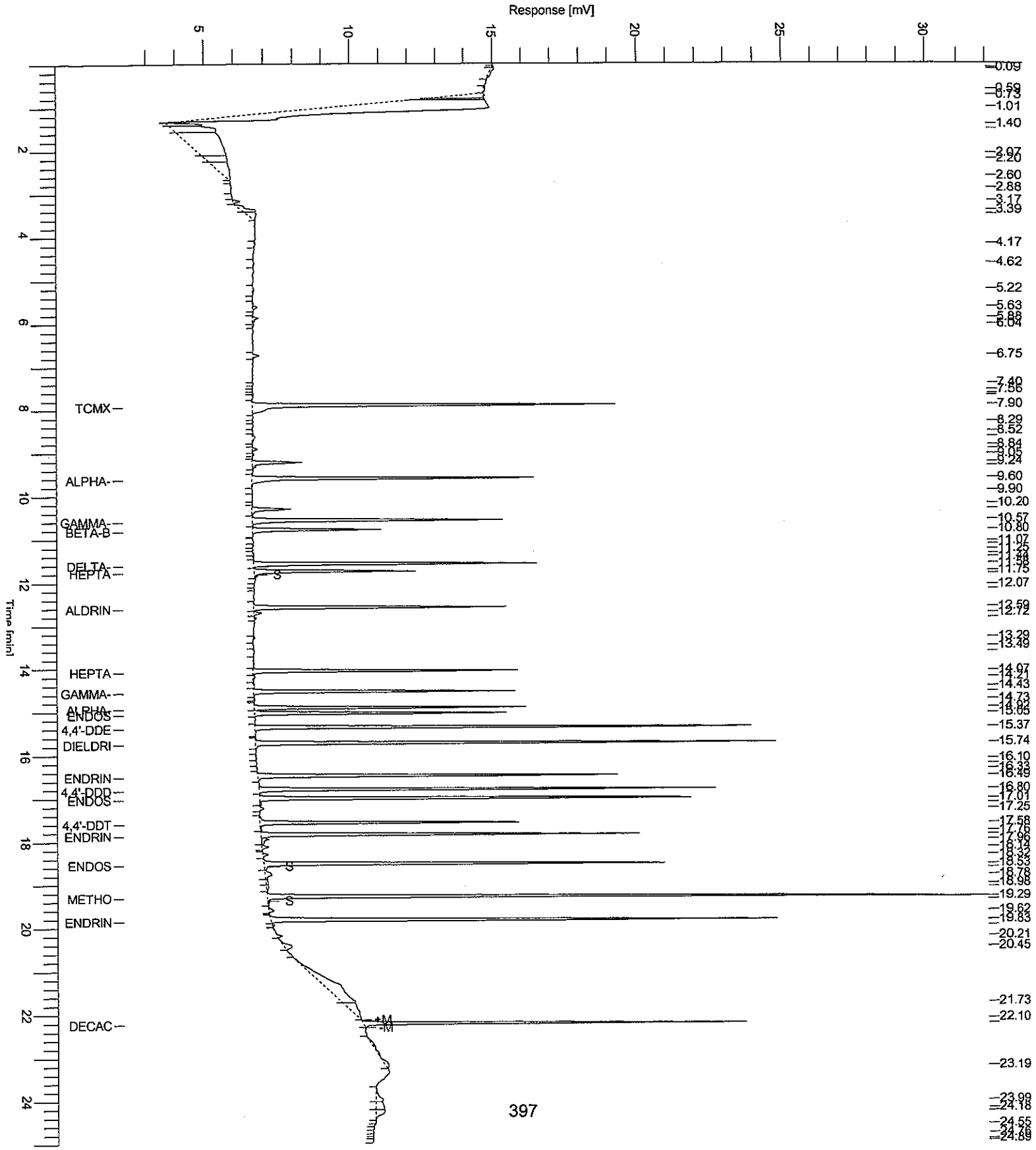
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.904	41422.00	3.4231	1.000	1	3.42
alpha-BHC	9.604	30024.00	1.6126	1.000	1	1.61
gamma-BHC	10.573	27671.00	1.6419	1.000	1	1.64
beta-BHC	10.797	13392.00	1.7764	1.000	1	1.78
delta-BHC	11.582	27926.27	1.5795	1.000	1	1.58
Heptachlor	11.751	16070.48	1.3886	1.000	1	1.39
Aldrin	12.589	26168.45	1.6800	1.000	1	1.68
Heptachlor epoxide	14.068	24783.58	1.7327	1.000	1	1.73
gamma-Chlordane	14.546	25235.79	1.7342	1.000	1	1.73
alpha-Chlordane	14.918	24917.01	1.7842	1.000	1	1.78
Endosulfan I	15.049	23342.49	1.7749	1.000	1	1.77
4,4'-DDE	15.371	47269.00	3.5417	1.000	1	3.54
Dieldrin	15.735	48912.00	3.5360	1.000	1	3.54
Endrin	16.487	35343.00	3.3988	1.000	1	3.40
4,4'-DDD	16.802	40600.00	3.8387	1.000	1	3.84
Endosulfan II	17.011	43766.63	3.6806	1.000	1	3.68
4,4'-DDT	17.578	25863.12	2.6910	1.000	1	2.69
Endrin aldehyde	17.849	35735.87	3.6212	1.000	1	3.62
Endosulfan sulfate	18.529	39783.05	3.6070	1.000	1	3.61
Methoxychlor	19.287	68189.47	17.3664	1.000	1	17.37
Endrin ketone	19.833	48751.21	4.2093	1.000	1	4.21
Decachlorobiphenyl	22.218	30800.50	4.7907	1.000	1	4.79
		745966.91	74.4094			74.41

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b011p.TX0

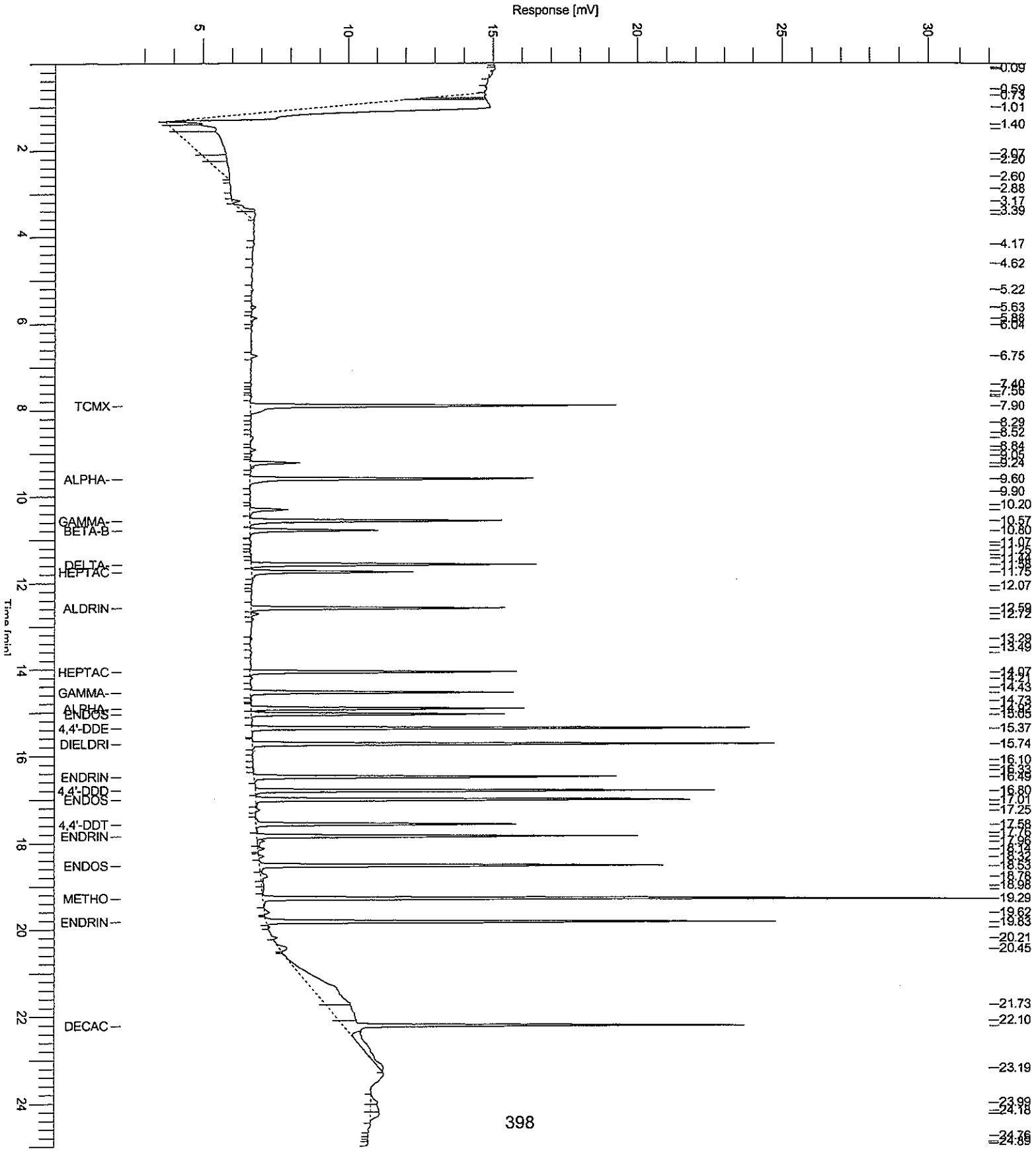
GC23 Rtx-CLPesticides2

ample Name : ical,04ws0513,level_1 Sample #: Page 1 of 1
leName : G:\gc23\CHb\268b011.raw
ate : 9/27/04 3:43:53 PM
ethod :
Time of Injection: 9/24/04 7:42:50 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.20 mV High Point : 32.04 mV
lot Offset: 2.20 mV Plot Scale: 29.8 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws0513,level_1 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\268b011
ate : 9/27/04 3:29:10 PM
lethod : gc23ins Time of Injection: 9/24/04 7:42:50 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.28 mV High Point : 32.04 mV
cale Factor: 1.0 Plot Offset: 2.28 mV Plot Scale: 29.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1512,level_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 9/27/04 3:40:26 PM
Data Acquisition Time : 9/24/04 8:12:20 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a012p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.970	98152.50	8.7593	1.000	1	8.76
alpha-BHC	9.602	73372.00	4.2060	1.000	1	4.21
gamma-BHC	10.498	67187.36	4.2727	1.000	1	4.27
beta-BHC	10.761	30046.00	4.4414	1.000	1	4.44
delta-BHC	11.246	67426.88	4.0975	1.000	1	4.10
Heptachlor	11.803	55160.00	3.9372	1.000	1	3.94
Aldrin	12.605	63385.71	4.4341	1.000	1	4.43
Heptachlor epoxide	14.205	59879.00	4.5603	1.000	1	4.56
gamma-Chlordane	14.528	59688.50	4.4561	1.000	1	4.46
alpha-Chlordane	14.864	58539.87	4.6039	1.000	1	4.60
4,4'-DDE	15.068	111988.00	9.1802	1.000	1	9.18
Endosulfan I	15.212	55405.00	4.5852	1.000	1	4.59
Dieldrin	15.817	118107.37	9.2445	1.000	1	9.24
Endrin	16.398	91779.00	8.6952	1.000	1	8.70
4,4'-DDD	16.571	98614.50	10.1165	1.000	1	10.12
Endosulfan II	16.965	103444.91	9.3730	1.000	1	9.37
4,4'-DDT	17.264	76507.00	7.6921	1.000	1	7.69
Endrin aldehyde	18.013	82799.52	8.8711	1.000	1	8.87
Methoxychlor	18.466	177148.85	43.0040	1.000	1	43.00
Endosulfan sulfate	19.095	92054.72	9.2325	1.000	1	9.23
Endrin ketone	19.771	111701.59	9.8171	1.000	1	9.82
Decachlorobiphenyl	21.706	70354.67	10.2547	1.000	1	10.25
		1822742.95	187.8346			187.83

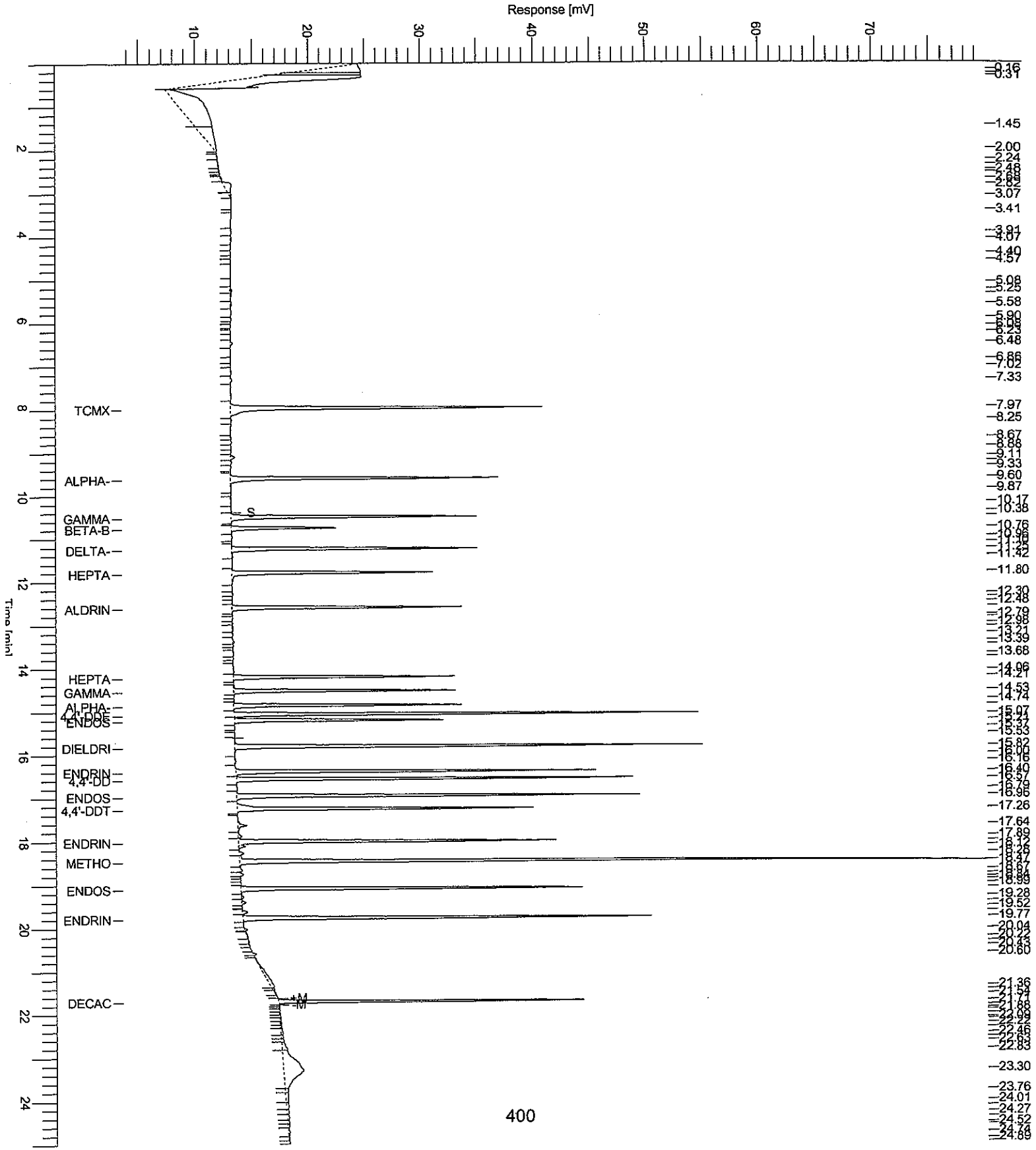
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a012p.TX0

RM
9/27/04

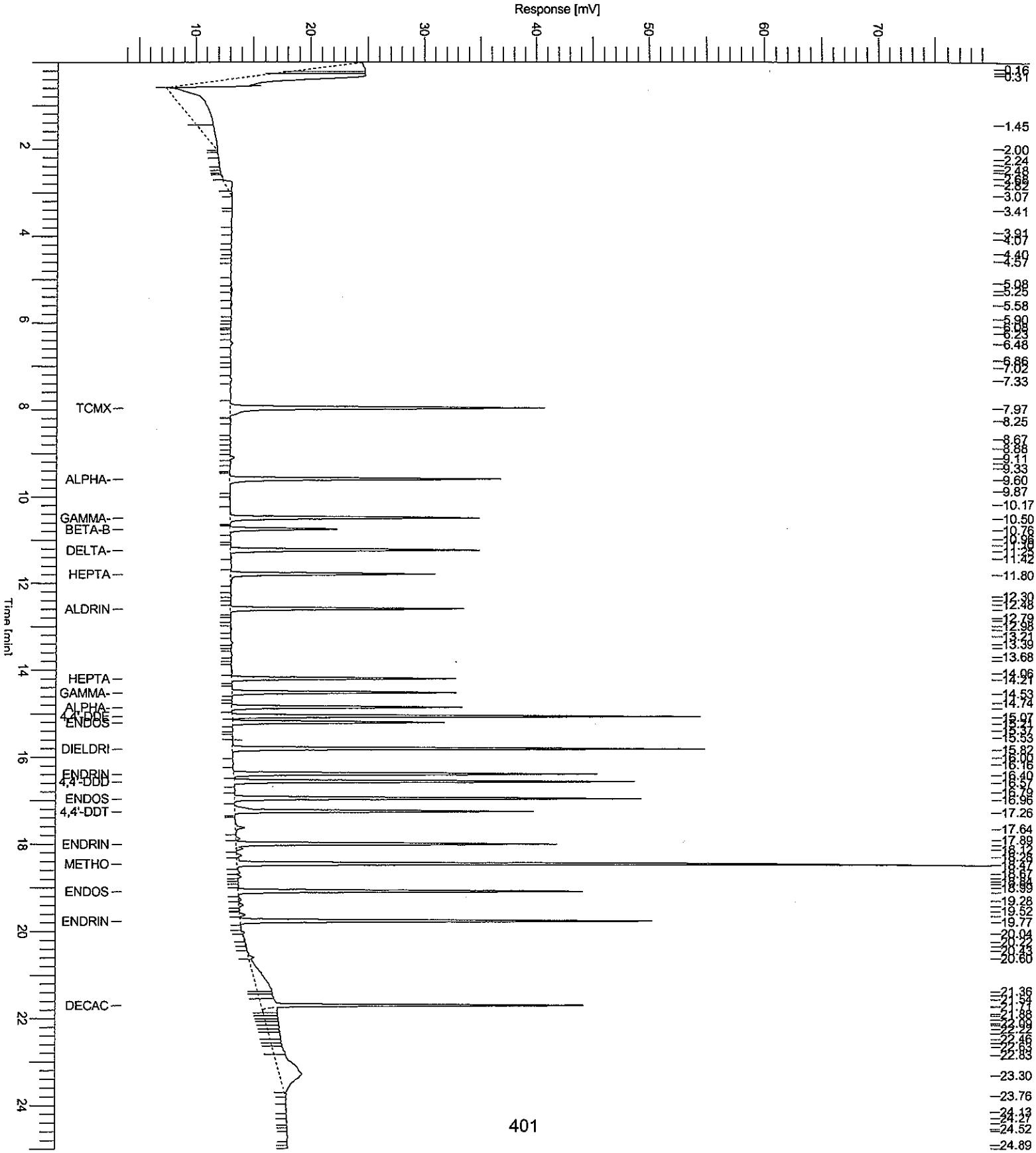
GC23 Rtx-CLPesticides

ample Name : ical,04ws1512,level_2 Sample #: Page 1 of 1
leName : G:\gc23\CHA\268a012.raw
ate : 9/27/04 3:40:28 PM
ethod :
Time of Injection: 9/24/04 8:12:20 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.52 mV High Point : 79.98 mV
ot Offset: 3.52 mV Plot Scale: 76.5 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1512,level_2 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a012.raw
ate : 9/27/04 3:26:57 PM
ethod : gc23ins Time of Injection: 9/24/04 8:12:20 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.71 mV High Point : 79.98 mV
cale Factor: 1.0 Plot Offset: 3.71 mV Plot Scale: 76.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1512,level_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 9/27/04 3:45:27 PM
Data Acquisition Time : 9/24/04 8:12:20 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b012p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

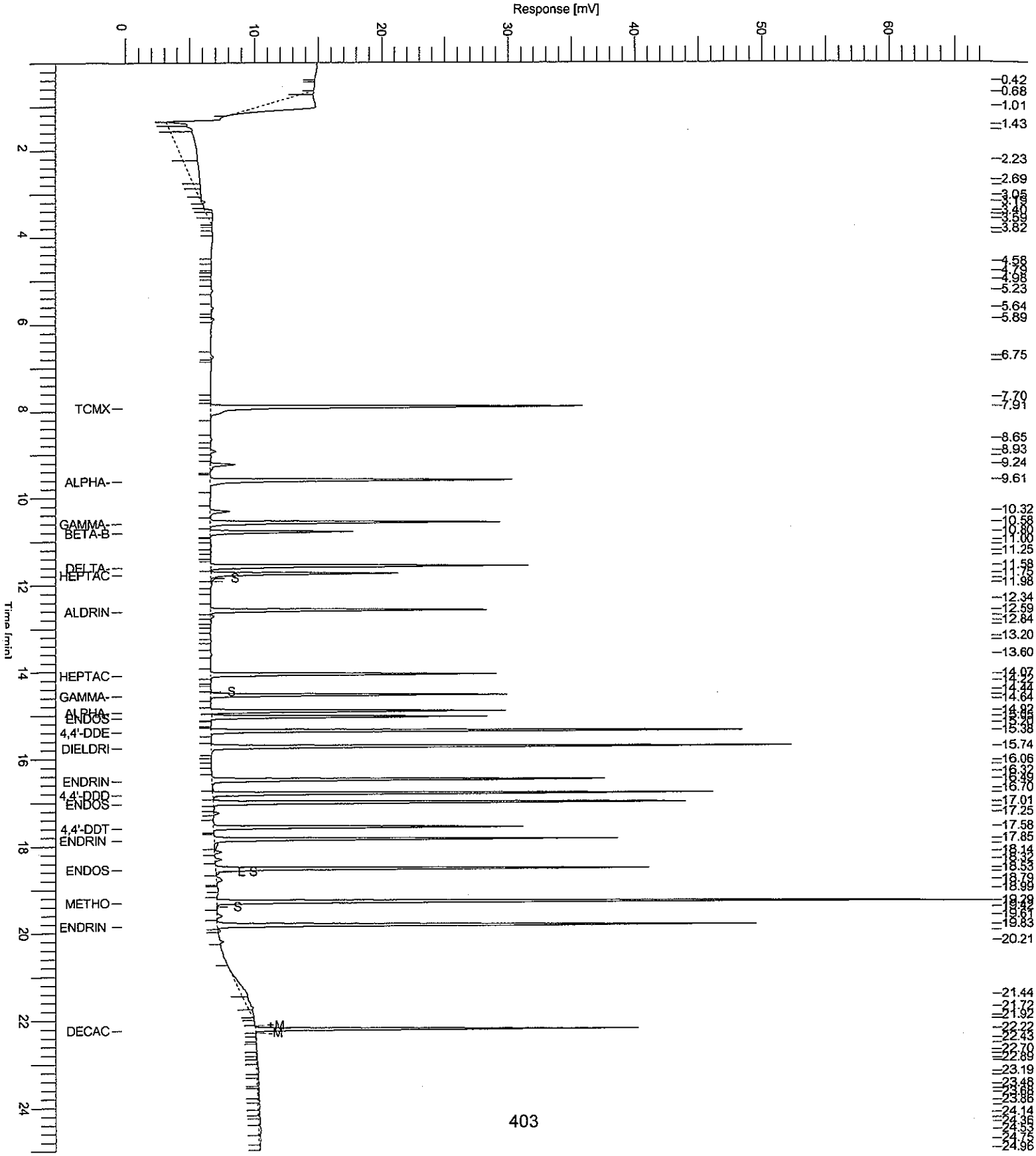
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.906	101902.00	8.4211	1.000	1	8.42
alpha-BHC	9.606	75335.00	4.0464	1.000	1	4.05
gamma-BHC	10.579	69039.34	4.0965	1.000	1	4.10
beta-BHC	10.798	32354.50	4.2916	1.000	1	4.29
delta-BHC	11.583	69481.00	3.9298	1.000	1	3.93
Heptachlor	11.752	42990.88	3.7148	1.000	1	3.71
Aldrin	12.594	66208.47	4.2507	1.000	1	4.25
Heptachlor epoxide	14.069	61884.28	4.3265	1.000	1	4.33
gamma-Chlordane	14.547	63142.46	4.3392	1.000	1	4.34
alpha-Chlordane	14.919	61397.00	4.3963	1.000	1	4.40
Endosulfan I	15.050	57754.00	4.3914	1.000	1	4.39
4,4'-DDE	15.377	119479.00	8.9521	1.000	1	8.95
Dieldrin	15.736	122937.00	8.8874	1.000	1	8.89
Endrin	16.488	89605.46	8.6171	1.000	1	8.62
4,4'-DDD	16.802	101919.00	9.6364	1.000	1	9.64
Endosulfan II	17.012	107954.73	9.0785	1.000	1	9.08
4,4'-DDT	17.579	67064.00	6.9779	1.000	1	6.98
Endrin aldehyde	17.850	87146.08	8.8308	1.000	1	8.83
Endosulfan sulfate	18.529	97187.51	8.8118	1.000	1	8.81
Methoxychlor	19.288	167929.66	42.7680	1.000	1	42.77
Endrin ketone	19.833	118187.34	10.2046	1.000	1	10.20
Decachlorobiphenyl	22.218	69466.71	10.8047	1.000	1	10.80
		1850365.44	183.7734			183.77

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b012p.TX0

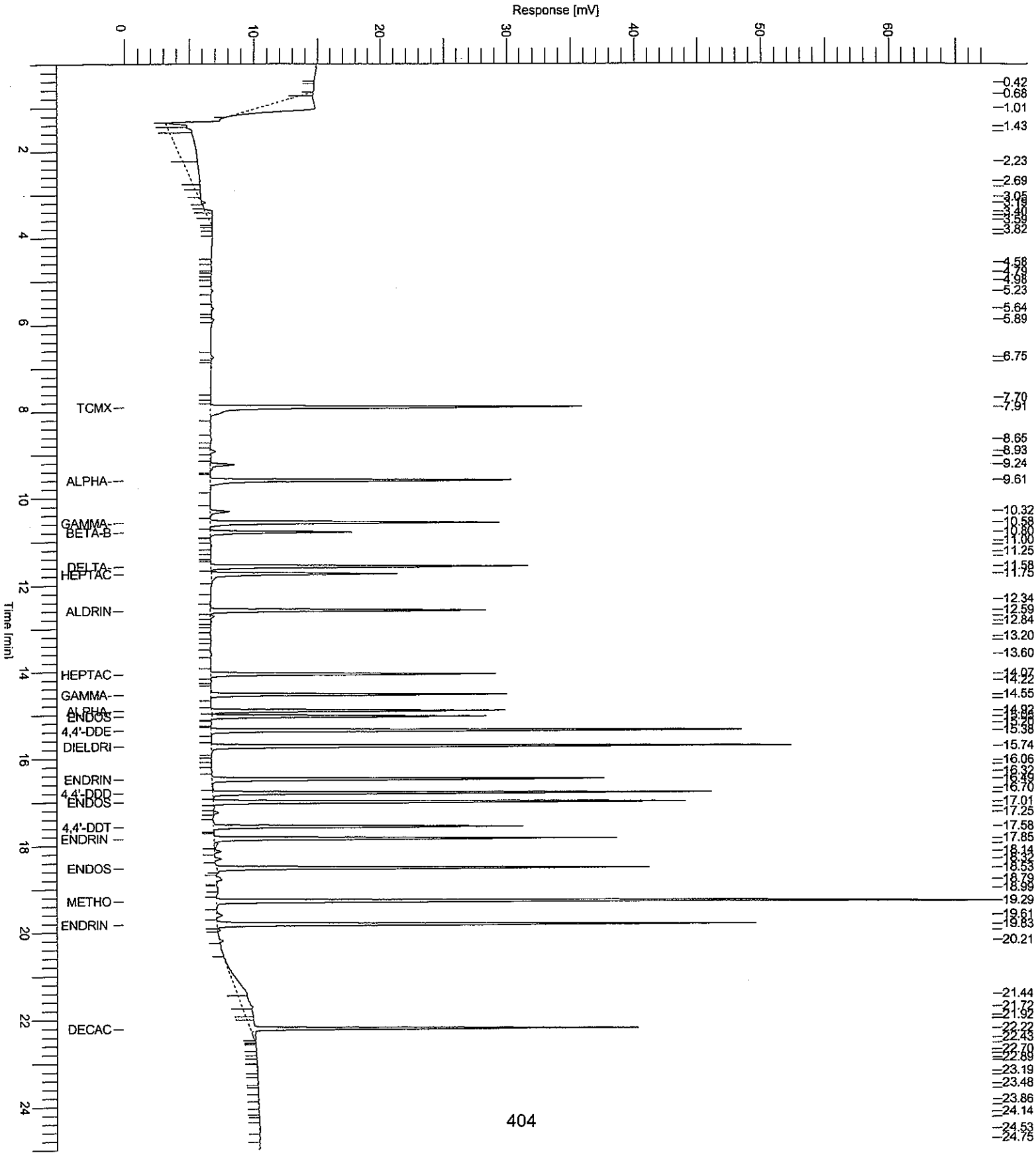
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1512,level_2 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\268b012.raw
ate : 9/27/04 3:45:29 PM
lethod :
Time of Injection: 9/24/04 8:12:20 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.25 mV High Point : 67.90 mV
lot Offset: -0.25 mV Plot Scale: 68.1 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1512,level_2 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\268b012
ate : 9/27/04 3:27:12 PM
lethod : gc23ins Time of Injection: 9/24/04 8:12:20 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.08 mV High Point : 67.90 mV
cale Factor: 1.0 Plot Offset: -0.08 mV Plot Scale: 68.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0927,level_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 9/27/04 3:41:10 PM
Data Acquisition Time : 9/24/04 8:41:51 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a013p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.969	184941.50	16.5045	1.000	1	16.50
alpha-BHC	9.600	141456.50	8.1089	1.000	1	8.11
gamma-BHC	10.496	128141.07	8.1490	1.000	1	8.15
beta-BHC	10.755	56334.50	8.3273	1.000	1	8.33
delta-BHC	11.240	126506.81	7.6877	1.000	1	7.69
Heptachlor	11.801	103492.00	7.3870	1.000	1	7.39
Aldrin	12.603	118452.07	8.2863	1.000	1	8.29
Heptachlor epoxide	14.203	110873.36	8.4440	1.000	1	8.44
gamma-Chlordane	14.521	110657.77	8.2613	1.000	1	8.26
alpha-Chlordane	14.861	106491.74	8.3751	1.000	1	8.38
4,4'-DDE	15.066	205958.00	16.8834	1.000	1	16.88
Endosulfan I	15.206	101338.00	8.3866	1.000	1	8.39
Dieldrin	15.815	216265.02	16.9275	1.000	1	16.93
Endrin	16.396	163958.00	15.5334	1.000	1	15.53
4,4'-DDD	16.569	182045.00	18.6754	1.000	1	18.68
Endosulfan II	16.962	185627.76	16.8194	1.000	1	16.82
4,4'-DDT	17.261	133198.00	13.3919	1.000	1	13.39
Endrin aldehyde	18.011	147796.32	15.8348	1.000	1	15.83
Methoxychlor	18.464	301359.77	73.1571	1.000	1	73.16
Endosulfan sulfate	19.088	162615.81	16.3093	1.000	1	16.31
Endrin ketone	19.769	198861.12	17.4773	1.000	1	17.48
Decachlorobiphenyl	21.703	116669.22	17.0054	1.000	1	17.01
		3303039.33	335.9324			335.93

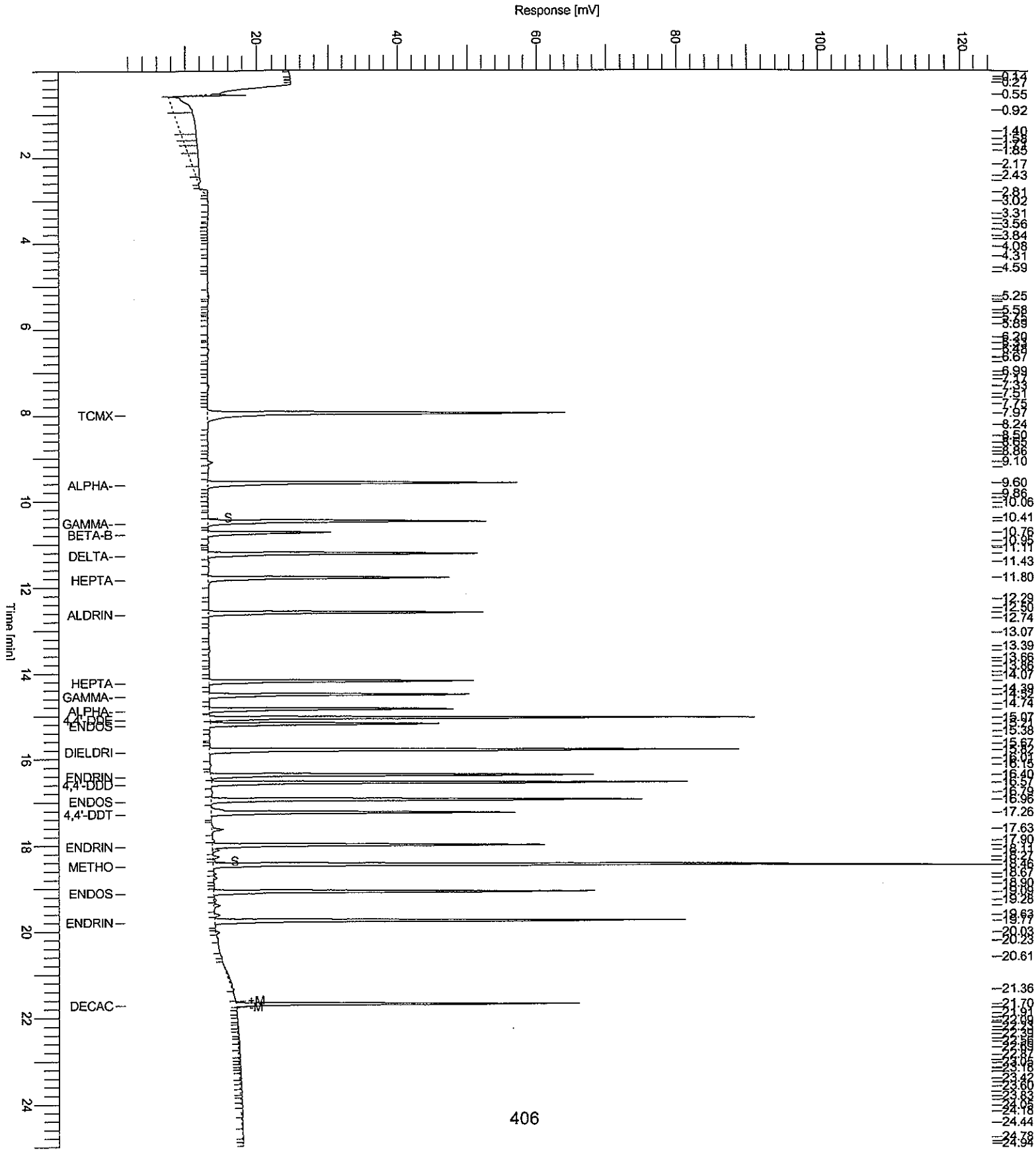
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a013p.TX0

9/27/04

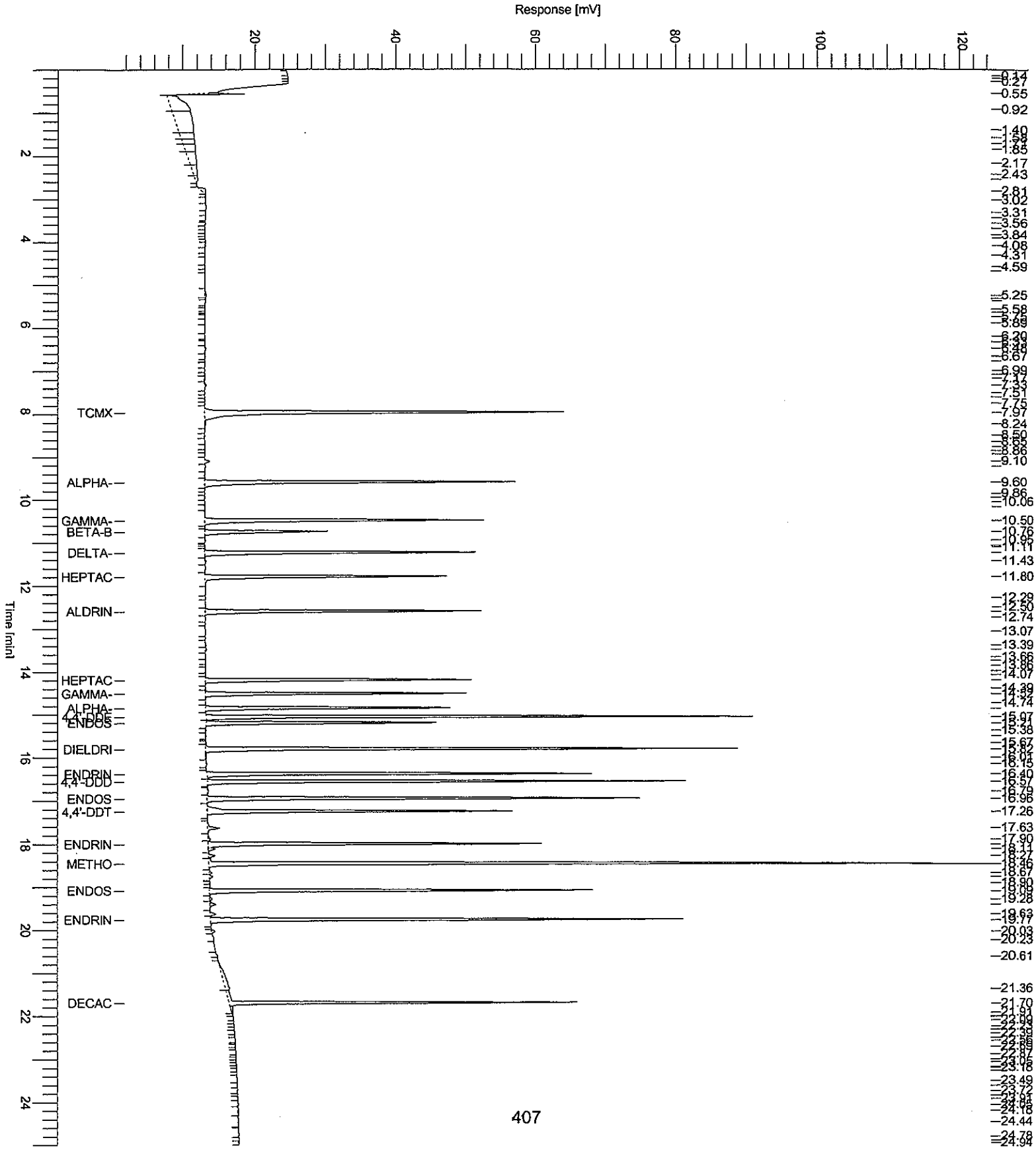
GC23 Rtx-CLPesticides

ample Name : ical,04ws0927,level_3 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a013.raw
ate : 9/27/04 3:41:12 PM
lethod : Time of Injection: 9/24/04 8:41:51 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.49 mV High Point : 124.63 mV
lot Offset: 1.49 mV Plot Scale: 123.1 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws0927,level_3 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a013.raw
ate : 9/27/04 3:26:59 PM
ethod : gc23ins Time of Injection: 9/24/04 8:41:51 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.80 mV High Point : 124.63 mV
cale Factor: 1.0 Plot Offset: 1.80 mV Plot Scale: 122.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws0927,level_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 9/27/04 3:46:55 PM
Data Acquisition Time : 9/24/04 8:41:51 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b013p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

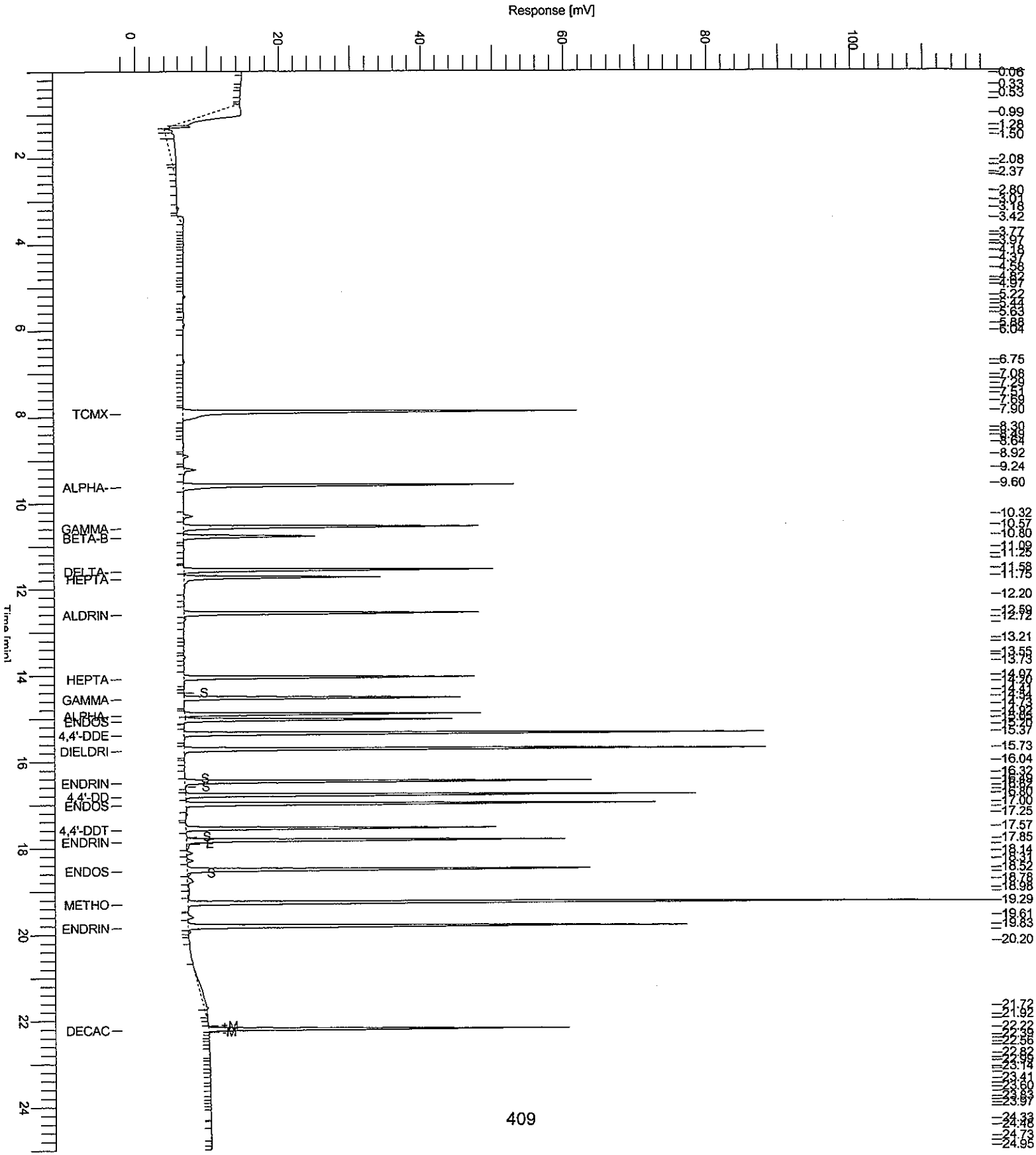
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.903	184599.00	15.2551	1.000	1	15.26
alpha-BHC	9.603	139497.50	7.4926	1.000	1	7.49
gamma-BHC	10.572	126942.90	7.5322	1.000	1	7.53
beta-BHC	10.795	57994.00	7.6925	1.000	1	7.69
delta-BHC	11.580	125971.00	7.1248	1.000	1	7.12
Heptachlor	11.750	82484.00	7.1274	1.000	1	7.13
Aldrin	12.587	119577.07	7.6770	1.000	1	7.68
Heptachlor epoxide	14.067	110402.50	7.7185	1.000	1	7.72
gamma-Chlordane	14.544	112848.94	7.7550	1.000	1	7.76
alpha-Chlordane	14.916	108656.00	7.7803	1.000	1	7.78
Endosulfan I	15.048	102329.00	7.7806	1.000	1	7.78
4,4'-DDE	15.370	212107.00	15.8924	1.000	1	15.89
Dieldrin	15.734	217448.00	15.7198	1.000	1	15.72
Endrin	16.486	156881.46	15.0869	1.000	1	15.09
4,4'-DDD	16.800	179463.00	16.9681	1.000	1	16.97
Endosulfan II	17.005	187850.00	15.7974	1.000	1	15.80
4,4'-DDT	17.571	119269.00	12.4097	1.000	1	12.41
Endrin aldehyde	17.848	149151.62	15.1141	1.000	1	15.11
Endosulfan sulfate	18.522	165471.19	15.0029	1.000	1	15.00
Methoxychlor	19.285	291156.93	74.1513	1.000	1	74.15
Endrin ketone	19.831	201190.42	17.3712	1.000	1	17.37
Decachlorobiphenyl	22.216	116696.06	18.1507	1.000	1	18.15
		3267986.60	322.6006			322.60

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b013p.TX0

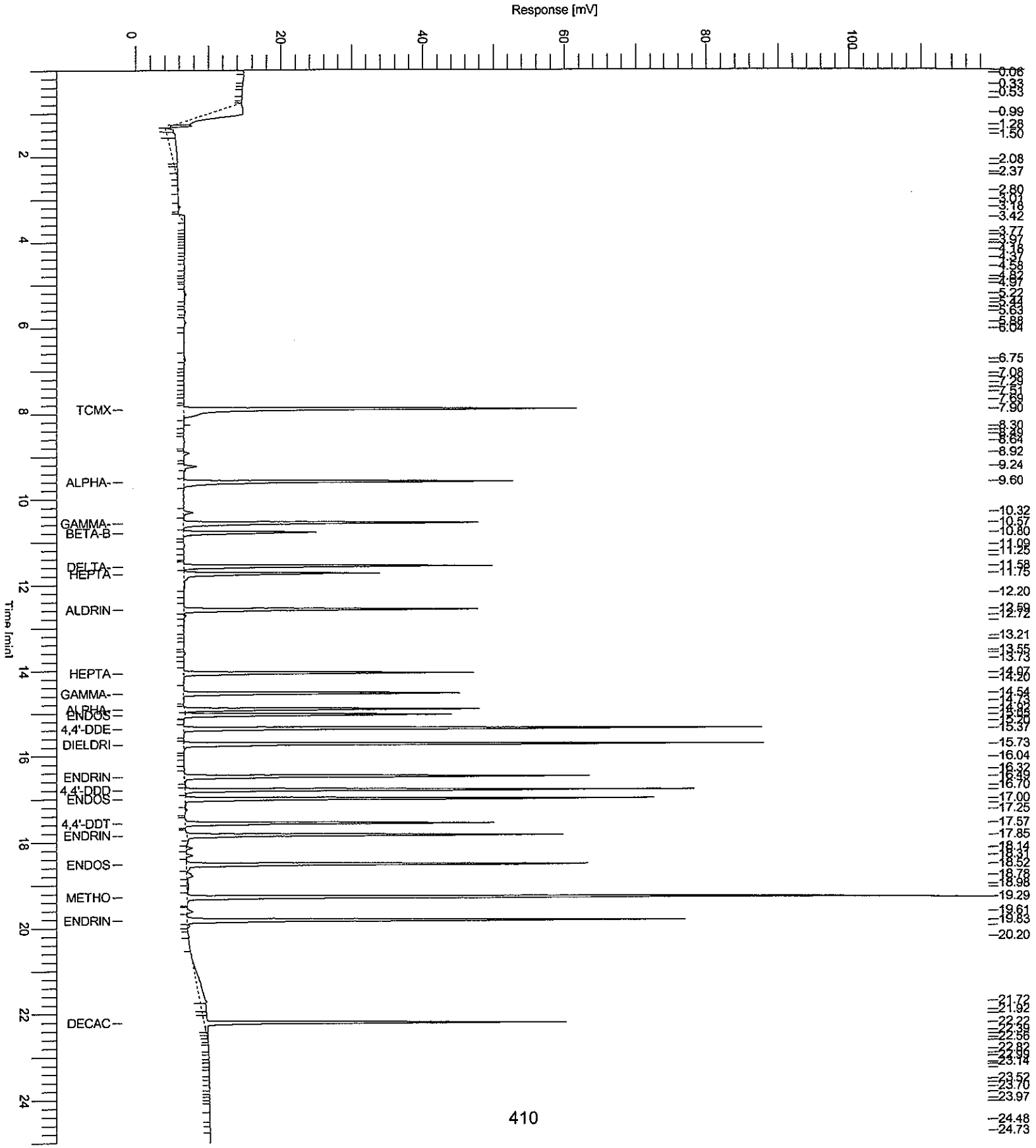
GC23 Rtx-CLPesticides2

ample Name : ical,04ws0927,level_3 Sample #: Page 1 of 1
leName : G:\gc23\CHb\268b013.raw
ate : 9/27/04 3:46:57 PM
ethod : Time of Injection: 9/24/04 8:41:51 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.04 mV High Point : 119.13 mV
ot Offset: -2.04 mV Plot Scale: 121.2 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws0927,level_3 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\268b013
ate : 9/27/04 3:27:14 PM
lethod : gc23ins Time of Injection: 9/24/04 8:41:51 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.73 mV High Point : 119.13 mV
cale Factor: 1.0 Plot Offset: -1.73 mV Plot Scale: 120.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1434,level_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 9/27/04 3:41:42 PM
Data Acquisition Time : 9/24/04 9:11:12 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a014p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.965	356842.50	31.8452	1.000	1	31.85
alpha-BHC	9.597	280629.26	16.0870	1.000	1	16.09
gamma-BHC	10.489	253233.00	16.1040	1.000	1	16.10
beta-BHC	10.753	109354.00	16.1647	1.000	1	16.16
delta-BHC	11.237	251651.57	15.2926	1.000	1	15.29
Heptachlor	11.799	206954.00	14.7719	1.000	1	14.77
Aldrin	12.601	231356.37	16.1844	1.000	1	16.18
Heptachlor epoxide	14.201	214571.95	16.3415	1.000	1	16.34
gamma-Chlordane	14.519	216200.00	16.1406	1.000	1	16.14
alpha-Chlordane	14.856	209076.08	16.4428	1.000	1	16.44
4,4'-DDE	15.065	420333.00	34.4569	1.000	1	34.46
Endosulfan I	15.204	198674.00	16.4420	1.000	1	16.44
Dieldrin	15.814	437838.39	34.2704	1.000	1	34.27
Endrin	16.395	333148.50	31.5626	1.000	1	31.56
4,4'-DDD	16.568	358475.00	36.7747	1.000	1	36.77
Endosulfan II	16.961	370021.74	33.5271	1.000	1	33.53
4,4'-DDT	17.256	294846.36	29.6443	1.000	1	29.64
Endrin aldehyde	18.005	290735.38	31.1492	1.000	1	31.15
Methoxychlor	18.463	696855.37	169.1662	1.000	1	169.17
Endosulfan sulfate	19.087	323854.69	32.4805	1.000	1	32.48
Endrin ketone	19.769	401115.34	35.2527	1.000	1	35.25
Decachlorobiphenyl	21.703	248040.98	36.1537	1.000	1	36.15
		6703807.50	696.2550			696.26

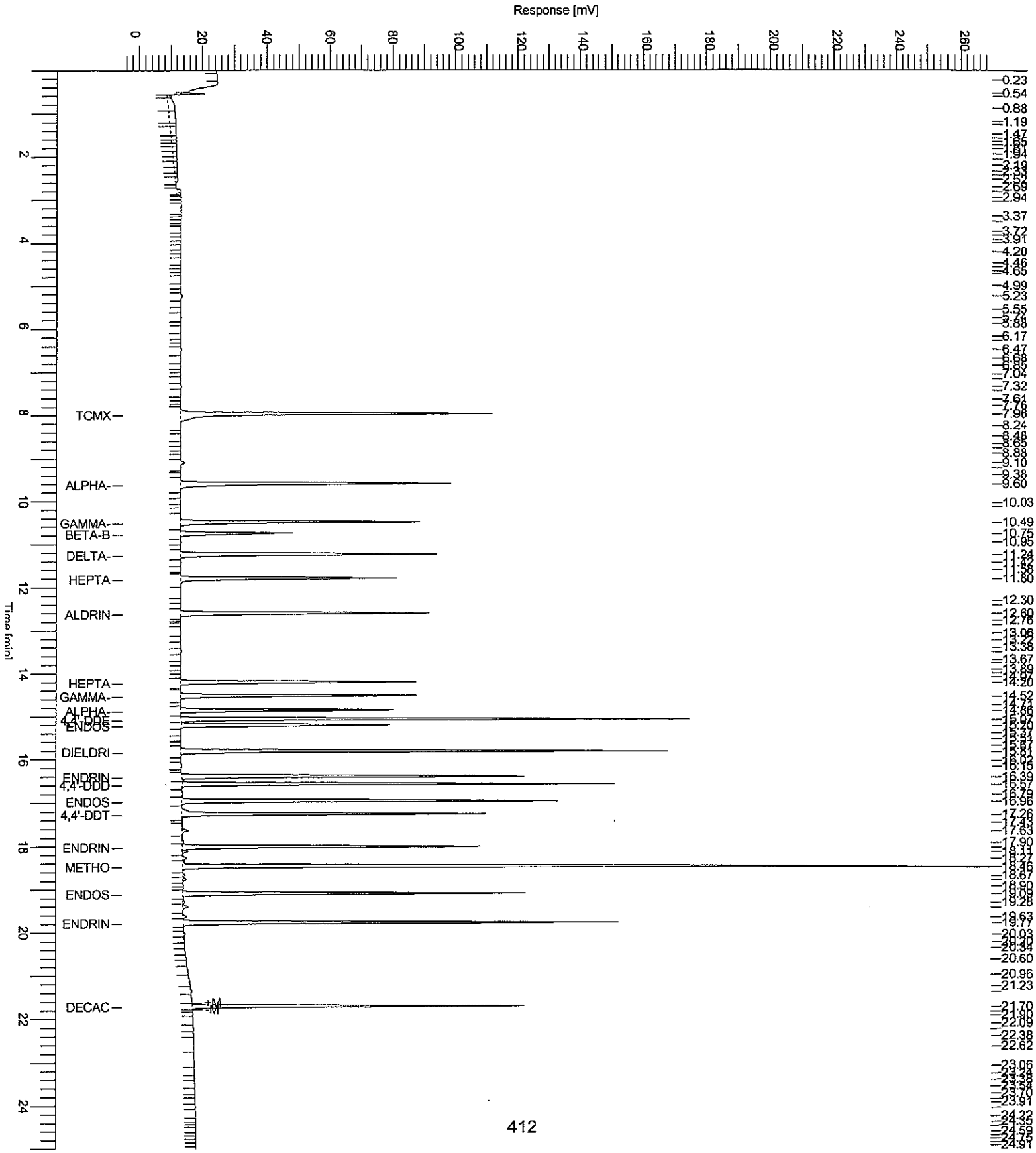
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a014p.TX0

RW
9/27/04

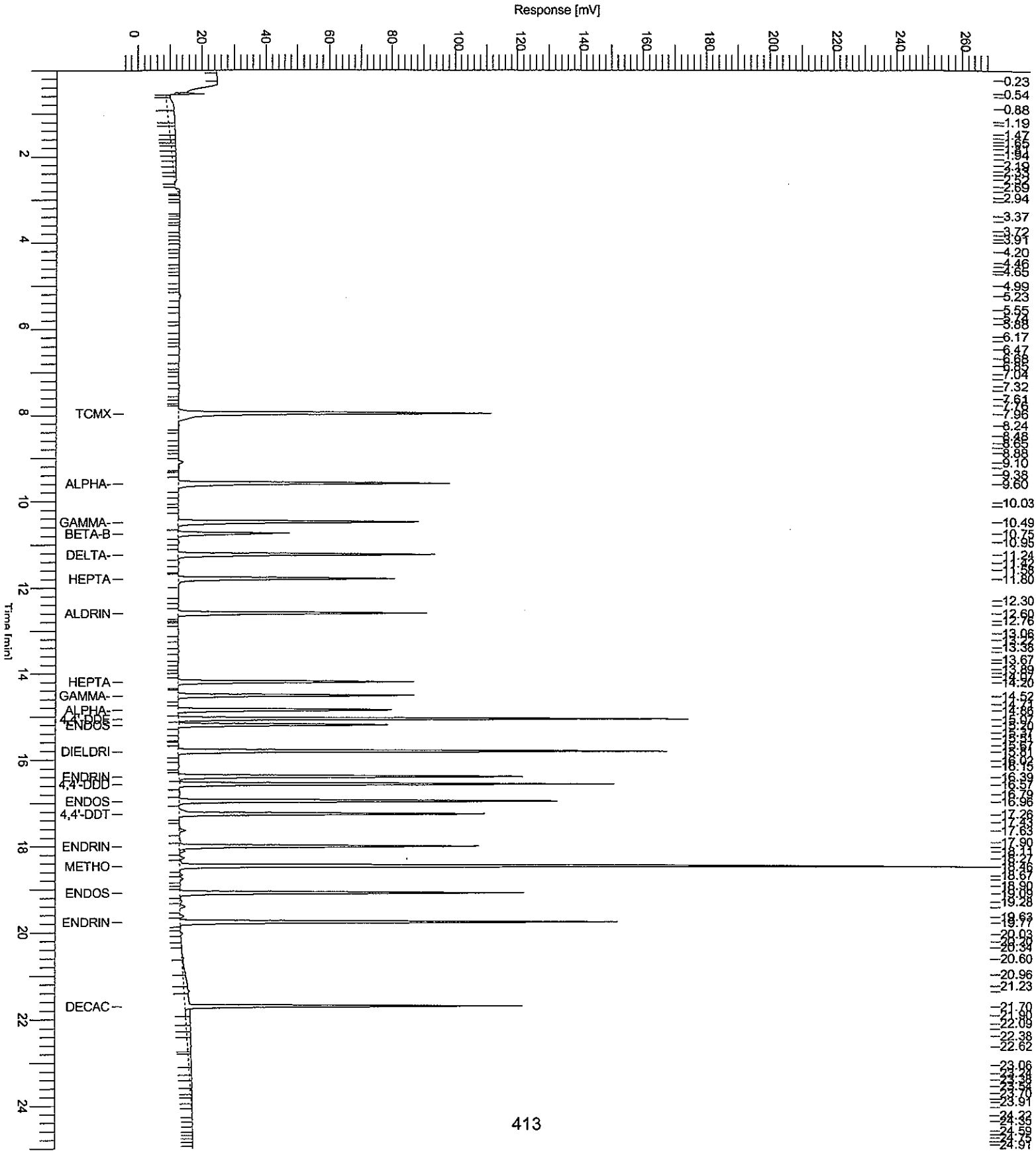
GC23 Rtx-CLPesticides

ample Name : ical,04ws1434,level_4 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a014.raw
ate : 9/27/04 3:41:44 PM
ethod : Time of Injection: 9/24/04 9:11:12 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -5.15 mV High Point : 269.79 mV
lot Offset: -5.15 mV Plot Scale: 274.9 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1434,level_4 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a014.raw
ate : 9/27/04 3:27:02 PM
lethod : gc23ins Time of Injection: 9/24/04 9:11:12 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -4.46 mV High Point : 269.79 mV
cale Factor: 1.0 Plot Offset: -4.46 mV Plot Scale: 274.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1434,level_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 9/27/04 3:48:08 PM
Data Acquisition Time : 9/24/04 9:11:12 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b014p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

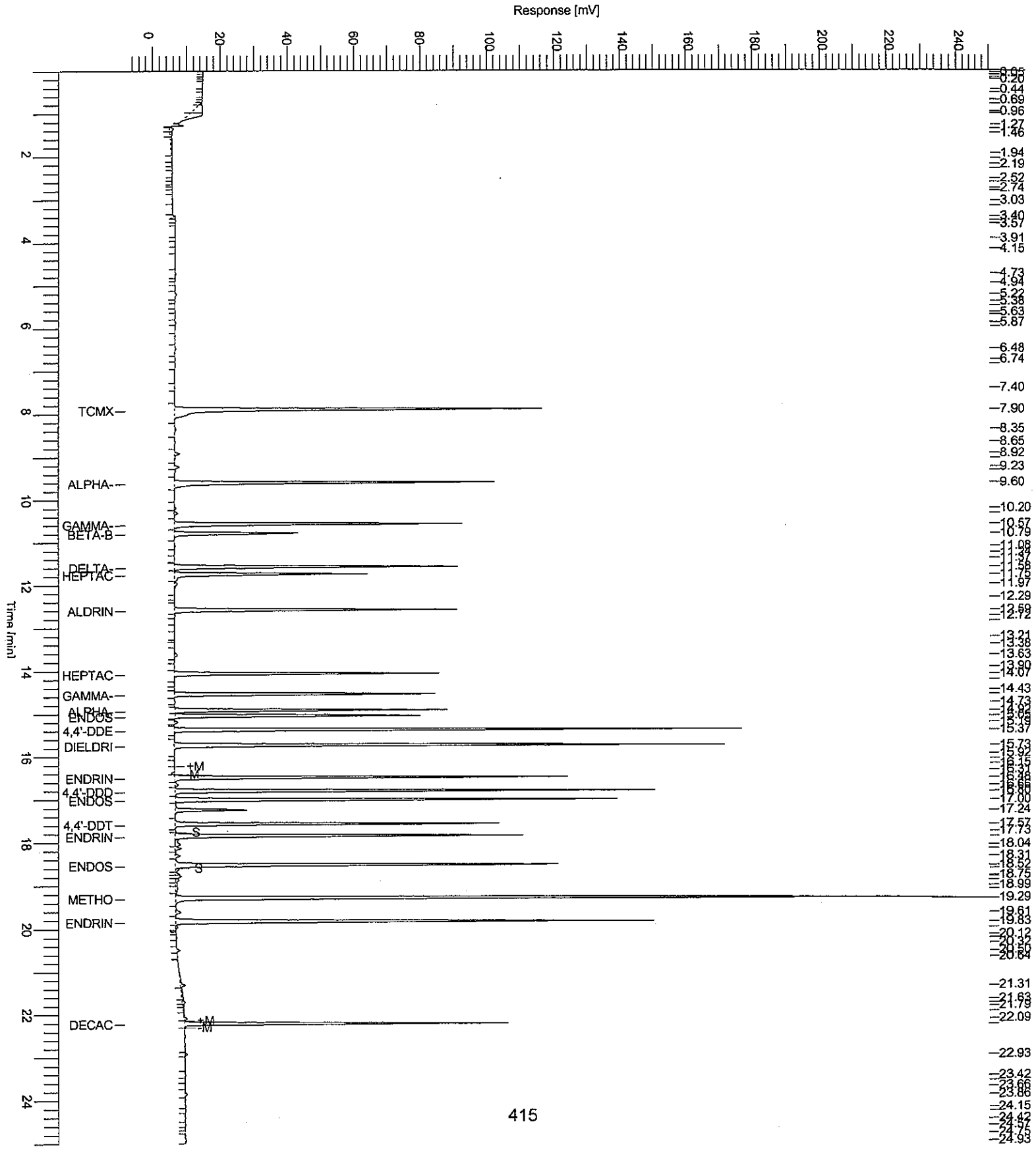
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.900	370029.79	30.5790	1.000	1	30.58
alpha-BHC	9.601	286265.47	15.3758	1.000	1	15.38
gamma-BHC	10.570	256768.42	15.2354	1.000	1	15.24
beta-BHC	10.789	114342.71	15.1668	1.000	1	15.17
delta-BHC	11.579	255795.00	14.4675	1.000	1	14.47
Heptachlor	11.749	173839.45	15.0213	1.000	1	15.02
Aldrin	12.586	240870.66	15.4642	1.000	1	15.46
Heptachlor epoxide	14.066	212804.50	14.8777	1.000	1	14.88
gamma-Chlordane	14.538	226050.87	15.5343	1.000	1	15.53
alpha-Chlordane	14.916	217112.00	15.5463	1.000	1	15.55
Endosulfan I	15.047	204024.00	15.5131	1.000	1	15.51
4,4'-DDE	15.369	435861.00	32.6575	1.000	1	32.66
Dieldrin	15.733	441988.15	31.9523	1.000	1	31.95
Endrin	16.485	325175.42	31.2713	1.000	1	31.27
4,4'-DDD	16.800	360902.57	34.1230	1.000	1	34.12
Endosulfan II	17.004	376572.50	31.6681	1.000	1	31.67
4,4'-DDT	17.570	263449.07	27.4114	1.000	1	27.41
Endrin aldehyde	17.847	295232.31	29.9170	1.000	1	29.92
Endosulfan sulfate	18.521	336623.24	30.5210	1.000	1	30.52
Methoxychlor	19.285	627867.98	159.9042	1.000	1	159.90
Endrin ketone	19.831	401097.65	34.6317	1.000	1	34.63
Decachlorobiphenyl	22.215	227541.52	35.3914	1.000	1	35.39
		6650214.29	662.2301			662.23

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b014p.TX0

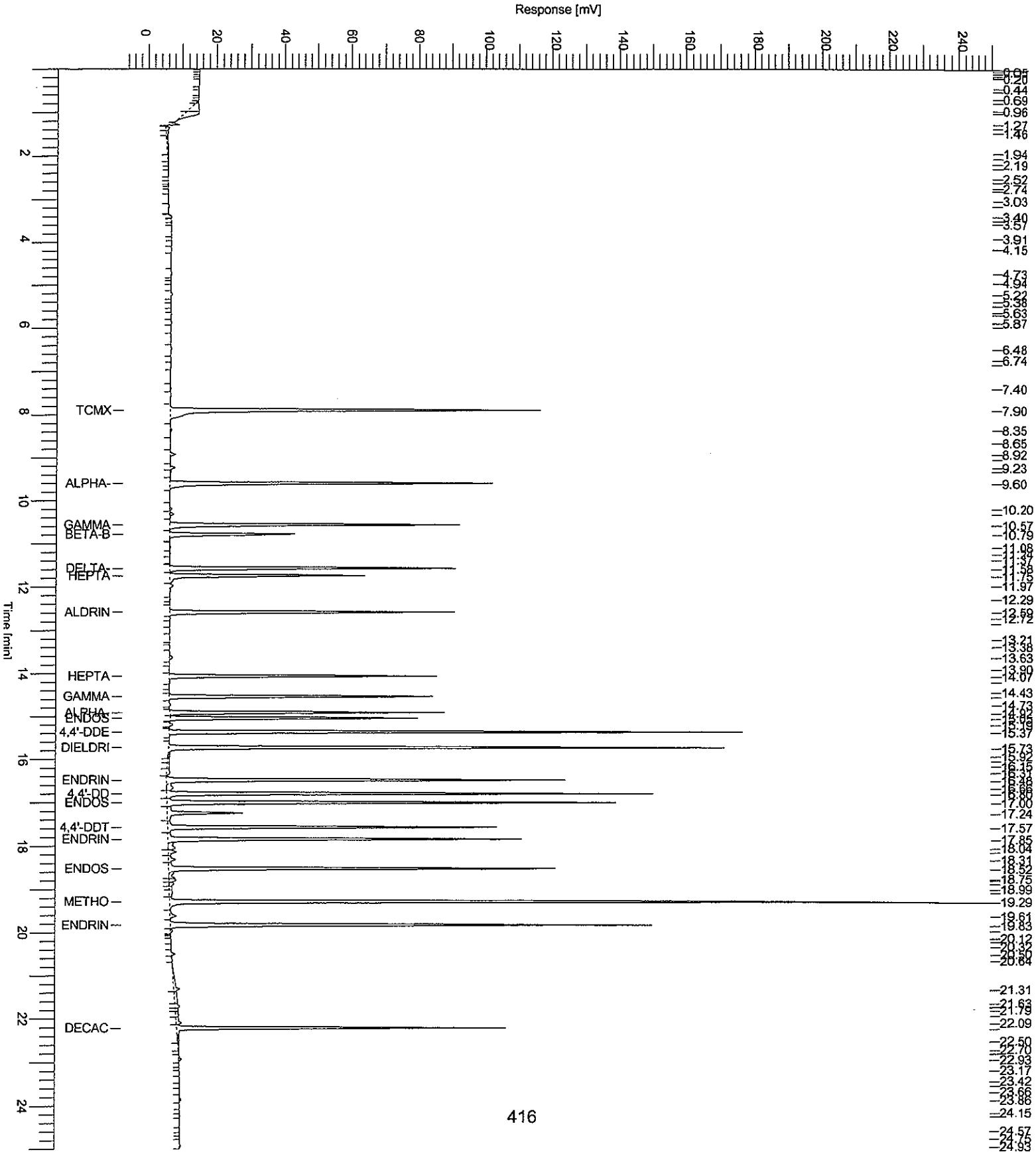
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1434,level_4 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\268b014.raw
Date : 9/27/04 3:48:10 PM
Method :
Time of Injection: 9/24/04 9:11:12 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -7.94 mV High Point : 250.37 mV
Plot Offset: -7.94 mV Plot Scale: 258.3 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1434,level_4 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\268b014
Date : 9/27/04 3:27:16 PM
Method : gc23ins Time of Injection: 9/24/04 9:11:12 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -7.30 mV High Point : 250.37 mV
Scale Factor: 1.0 Plot Offset: -7.30 mV Plot Scale: 257.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1509,level_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 9/27/04 3:42:17 PM
Data Acquisition Time : 9/24/04 9:40:42 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a015p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.970	446830.00	39.8758	1.000	1	39.88
alpha-BHC	9.601	350599.50	20.0980	1.000	1	20.10
gamma-BHC	10.498	314595.00	20.0063	1.000	1	20.01
beta-BHC	10.761	134392.00	19.8658	1.000	1	19.87
delta-BHC	11.246	314923.27	19.1375	1.000	1	19.14
Heptachlor	11.803	261104.50	18.6370	1.000	1	18.64
Aldrin	12.605	287408.50	20.1055	1.000	1	20.11
Heptachlor epoxide	14.206	267076.46	20.3402	1.000	1	20.34
gamma-Chlordane	14.528	271529.00	20.2713	1.000	1	20.27
alpha-Chlordane	14.865	261242.50	20.5455	1.000	1	20.55
4,4'-DDE	15.069	536073.50	43.9447	1.000	1	43.94
Endosulfan I	15.213	246126.50	20.3691	1.000	1	20.37
Dieldrin	15.818	552437.60	43.2403	1.000	1	43.24
Endrin	16.399	423147.00	40.0890	1.000	1	40.09
4,4'-DDD	16.572	457281.00	46.9109	1.000	1	46.91
Endosulfan II	16.966	468770.52	42.4745	1.000	1	42.47
4,4'-DDT	17.265	378184.00	38.0232	1.000	1	38.02
Endrin aldehyde	18.014	363905.63	38.9886	1.000	1	38.99
Methoxychlor	18.467	921625.12	223.7305	1.000	1	223.73
Endosulfan sulfate	19.096	411725.52	41.2933	1.000	1	41.29
Endrin ketone	19.777	511827.06	44.9828	1.000	1	44.98
Decachlorobiphenyl	21.705	319222.30	46.5289	1.000	1	46.53
		8500026.49	889.4589			889.46

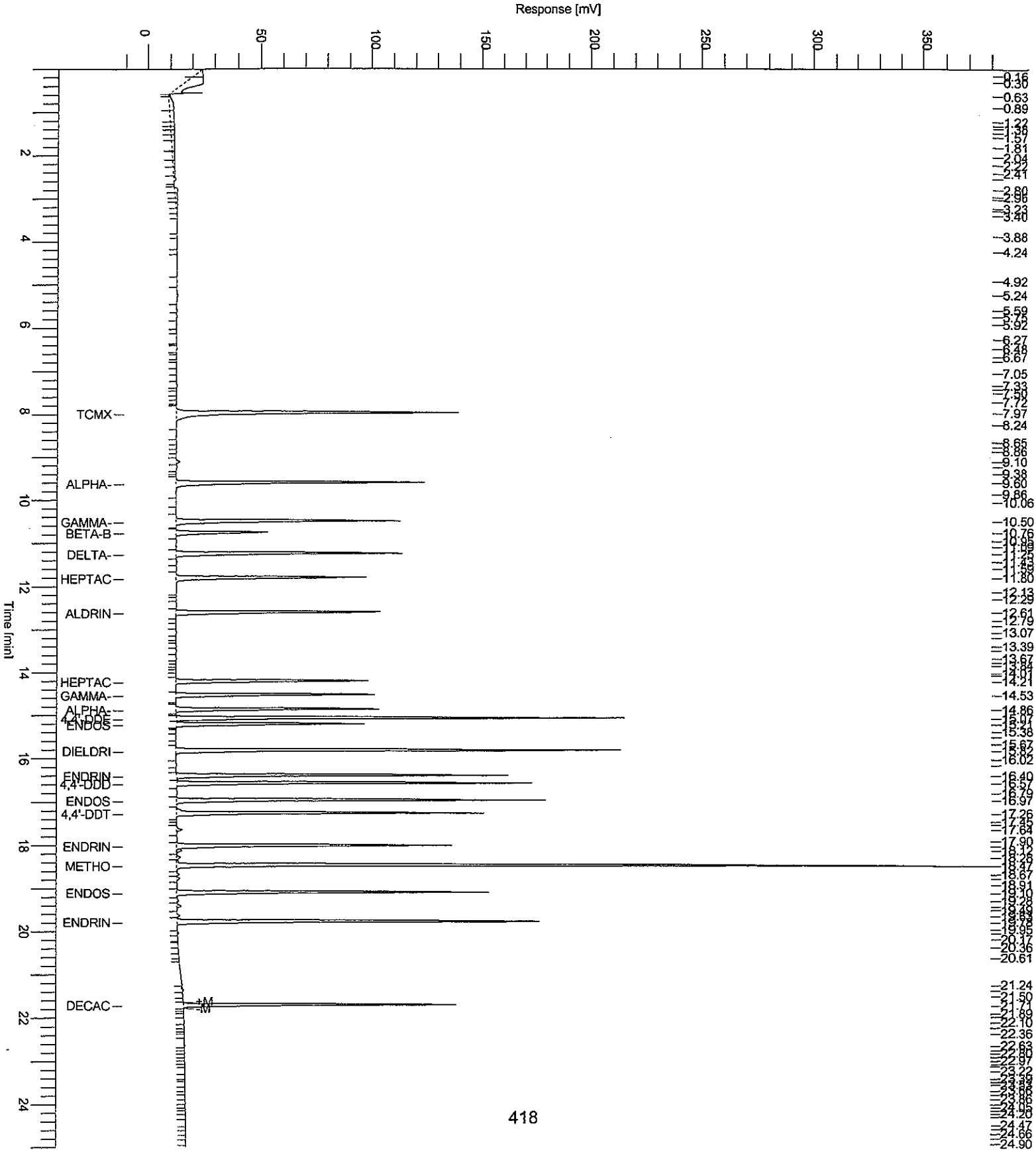
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a015p.TX0

RM
9/27/04

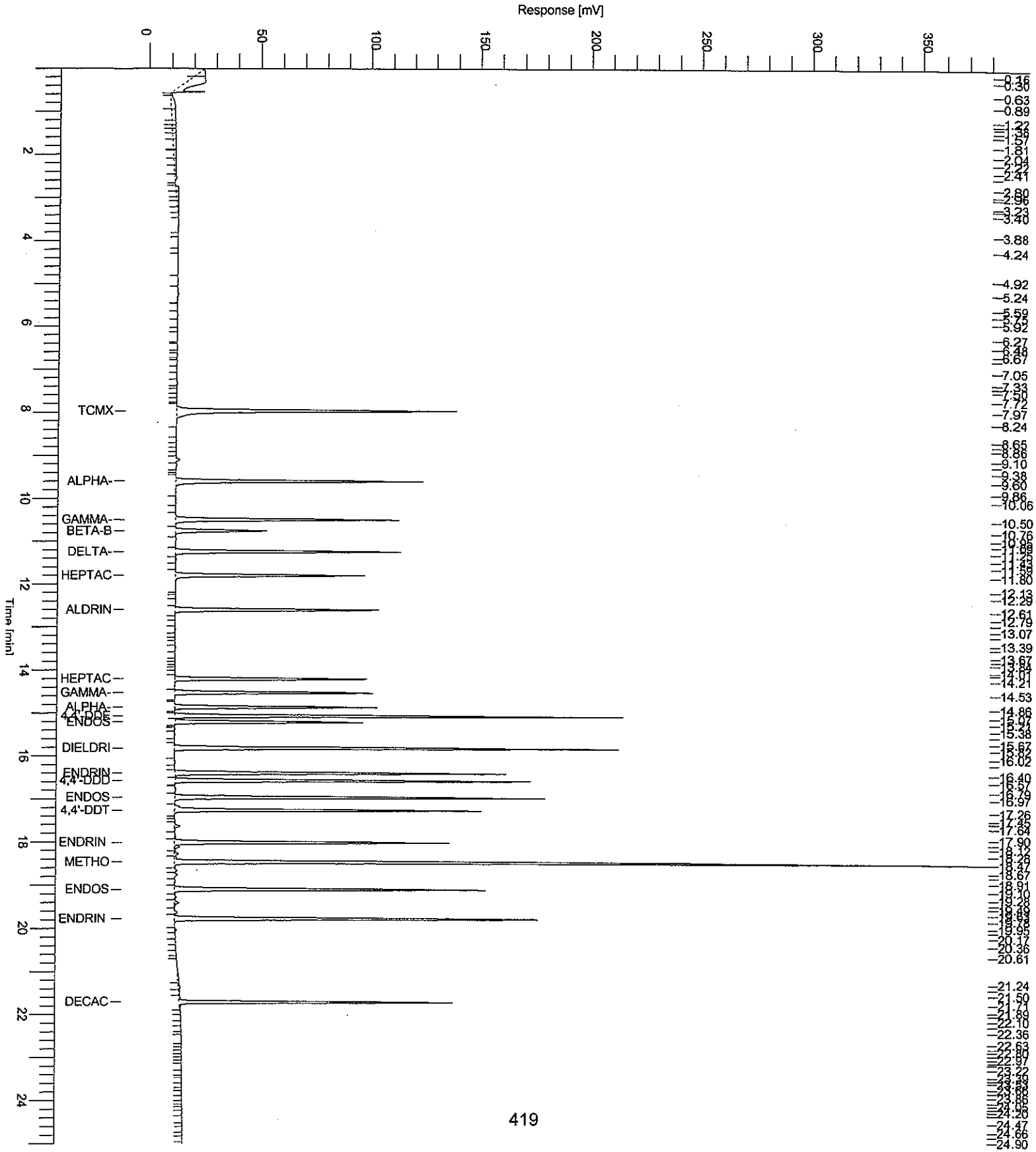
GC23 Rtx-CLPesticides

Sample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
FileName : G:\gc23\CHA\268a015.raw
Date : 9/27/04 3:42:19 PM
Method : Time of Injection: 9/24/04 9:40:42 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -10.59 mV High Point : 380.33 mV
Plot Offset: -10.59 mV Plot Scale: 390.9 mV



GC23 Rtx-CLPesticides

Sample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
FileName : G:\gc23\CHA\268a015.raw
Date : 9/27/04 3:27:04 PM
Method : gc23ins Time of Injection: 9/24/04 9:40:42 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -9.61 mV High Point : 380.33 mV
Scale Factor: 1.0 Plot Offset: -9.61 mV Plot Scale: 389.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1509,level_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 9/27/04 3:50:51 PM
Data Acquisition Time : 9/24/04 9:40:42 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b015p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

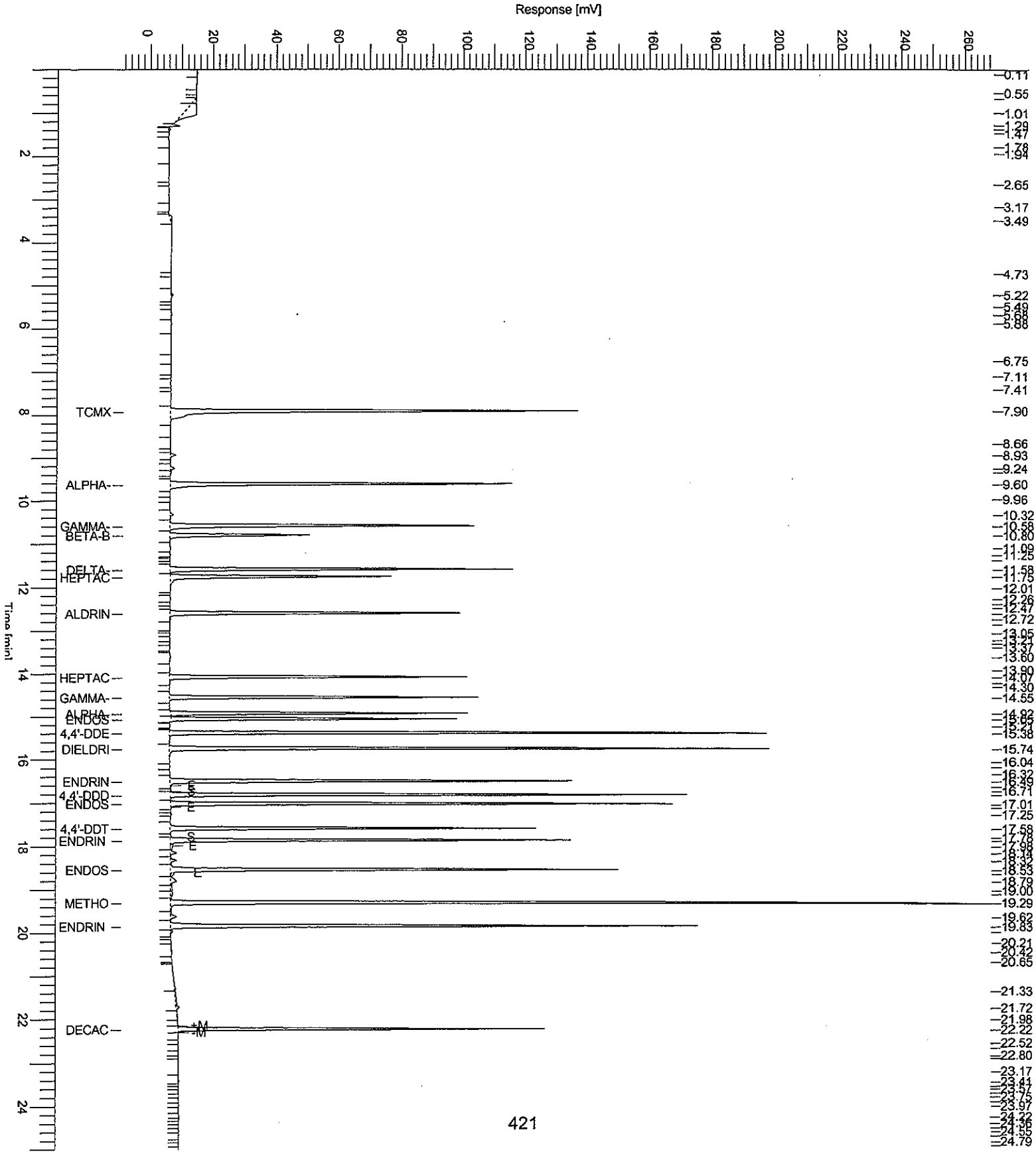
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.904	440260.00	36.3828	1.000	1	36.38
alpha-BHC	9.605	340191.00	18.2722	1.000	1	18.27
gamma-BHC	10.578	305917.94	18.1517	1.000	1	18.15
beta-BHC	10.797	135201.78	17.9336	1.000	1	17.93
delta-BHC	11.582	305726.00	17.2916	1.000	1	17.29
Heptachlor	11.752	208662.50	18.0303	1.000	1	18.03
Aldrin	12.594	285824.54	18.3503	1.000	1	18.35
Heptachlor epoxide	14.069	262063.33	18.3215	1.000	1	18.32
gamma-Chlordane	14.547	270539.00	18.5915	1.000	1	18.59
alpha-Chlordane	14.919	258006.00	18.4745	1.000	1	18.47
Endosulfan I	15.051	243219.00	18.4933	1.000	1	18.49
4,4'-DDE	15.378	522821.00	39.1731	1.000	1	39.17
Dieldrin	15.736	527900.12	38.1630	1.000	1	38.16
Endrin	16.489	384104.32	36.9383	1.000	1	36.94
4,4'-DDD	16.803	433026.86	40.9423	1.000	1	40.94
Endosulfan II	17.013	449845.00	37.8300	1.000	1	37.83
4,4'-DDT	17.580	314190.37	32.6910	1.000	1	32.69
Endrin aldehyde	17.851	352541.93	35.7244	1.000	1	35.72
Endosulfan sulfate	18.530	398606.96	36.1409	1.000	1	36.14
Methoxychlor	19.289	748203.76	190.5511	1.000	1	190.55
Endrin ketone	19.835	477890.59	41.2621	1.000	1	41.26
Decachlorobiphenyl	22.216	270104.32	42.0115	1.000	1	42.01
		7934846.32	789.7210			789.72

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b015p.TX0

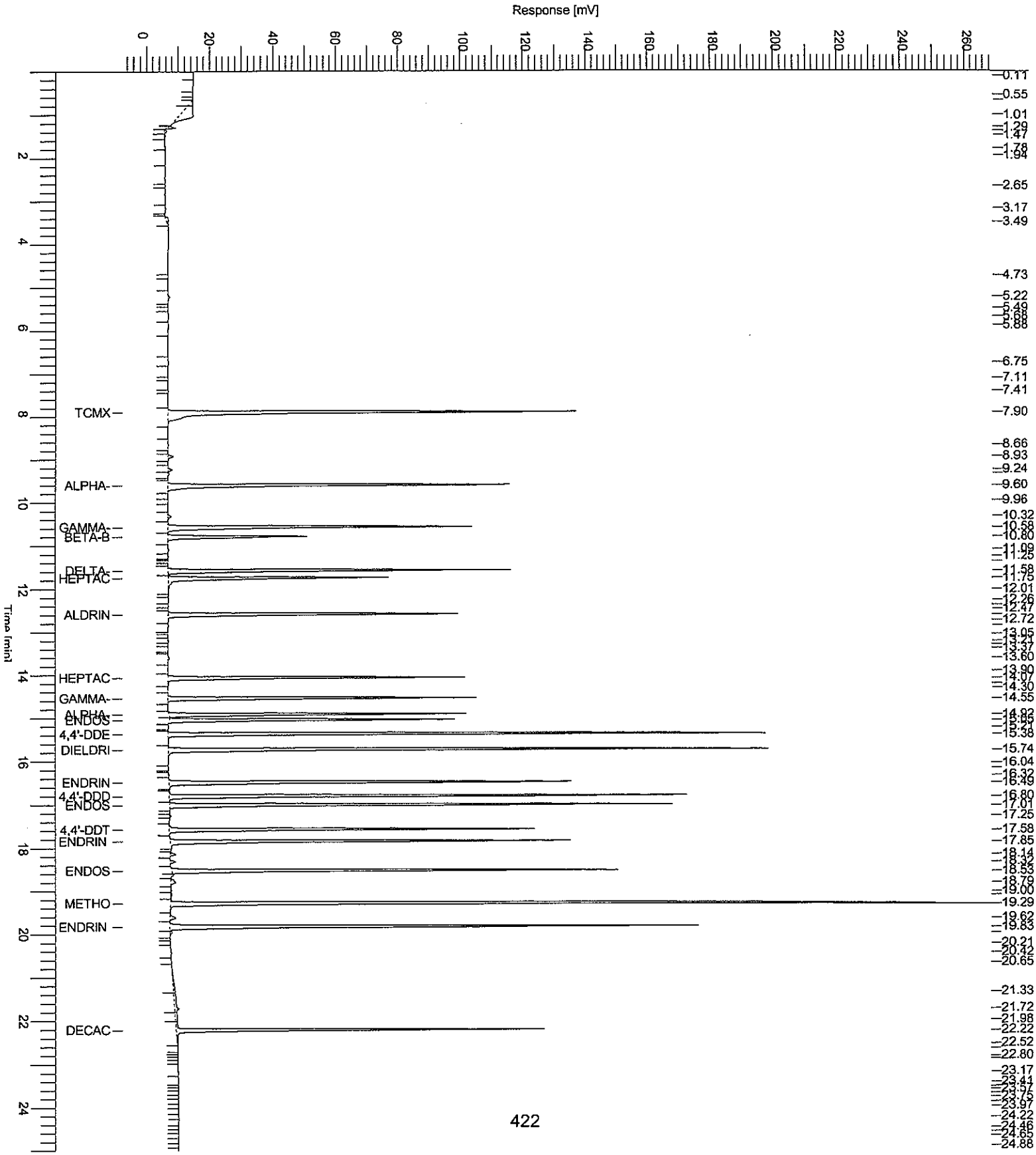
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\268b015.raw
ate : 9/27/04 3:50:53 PM
ethod : Time of Injection: 9/24/04 9:40:42 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.34 mV High Point : 269.30 mV
lot Offset: -8.34 mV Plot Scale: 277.6 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1509,level_5 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\268b015
Date : 9/27/04 3:27:18 PM
Method : gc23ins Time of Injection: 9/24/04 9:40:42 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -7.65 mV High Point : 269.30 mV
Scale Factor: 1.0 Plot Offset: -7.65 mV Plot Scale: 276.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1508,level_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 9/27/04 3:42:51 PM
Data Acquisition Time : 9/24/04 10:10:03 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a016p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

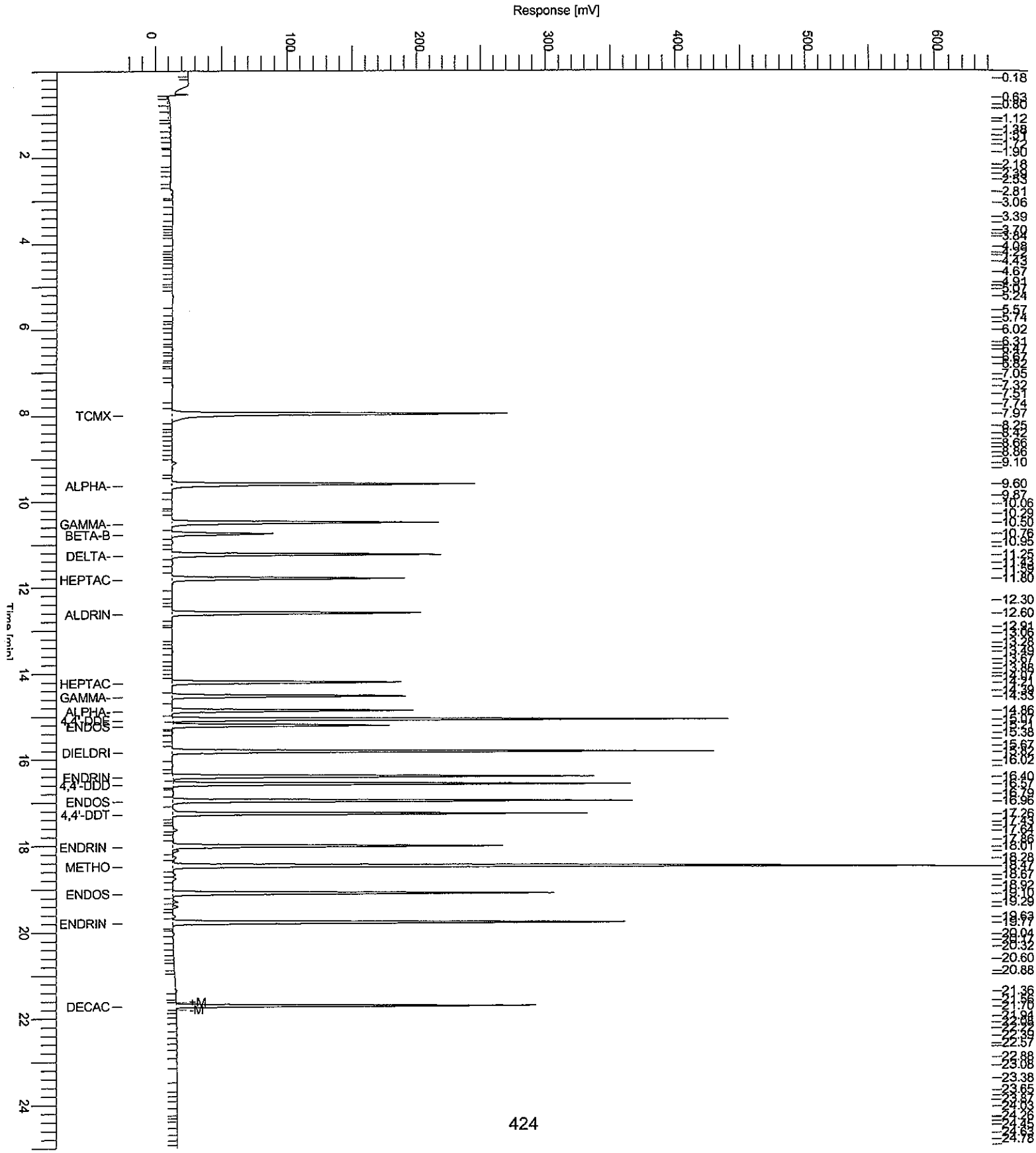
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.968	893753.67	79.7600	1.000	1	79.76
alpha-BHC	9.600	711959.37	40.8128	1.000	1	40.81
gamma-BHC	10.497	632894.26	40.2481	1.000	1	40.25
beta-BHC	10.756	254961.00	37.6882	1.000	1	37.69
delta-BHC	11.245	639543.12	38.8643	1.000	1	38.86
Heptachlor	11.802	529630.00	37.8037	1.000	1	37.80
Aldrin	12.604	577586.00	40.4047	1.000	1	40.40
Heptachlor epoxide	14.205	530187.12	40.3784	1.000	1	40.38
gamma-Chlordane	14.528	543288.27	40.5598	1.000	1	40.56
alpha-Chlordane	14.864	521750.00	41.0331	1.000	1	41.03
4,4'-DDE	15.068	1128213.00	92.4854	1.000	1	92.49
Endosulfan I	15.213	483967.00	40.0525	1.000	1	40.05
Dieldrin	15.817	1146479.96	89.7372	1.000	1	89.74
Endrin	16.398	882917.00	83.6478	1.000	1	83.65
4,4'-DDD	16.571	952203.50	97.6833	1.000	1	97.68
Endosulfan II	16.965	971191.44	87.9980	1.000	1	88.00
4,4'-DDT	17.264	826827.61	83.1306	1.000	1	83.13
Endrin aldehyde	18.014	727805.36	77.9765	1.000	1	77.98
Methoxychlor	18.467	1738216.76	421.9635	1.000	1	421.96
Endosulfan sulfate	19.096	844819.02	84.7298	1.000	1	84.73
Endrin ketone	19.772	1052137.10	92.4689	1.000	1	92.47
Decachlorobiphenyl	21.704	670664.35	97.7541	1.000	1	97.75
		17260994.89	1787.1807			1787.18

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a016p.TX0

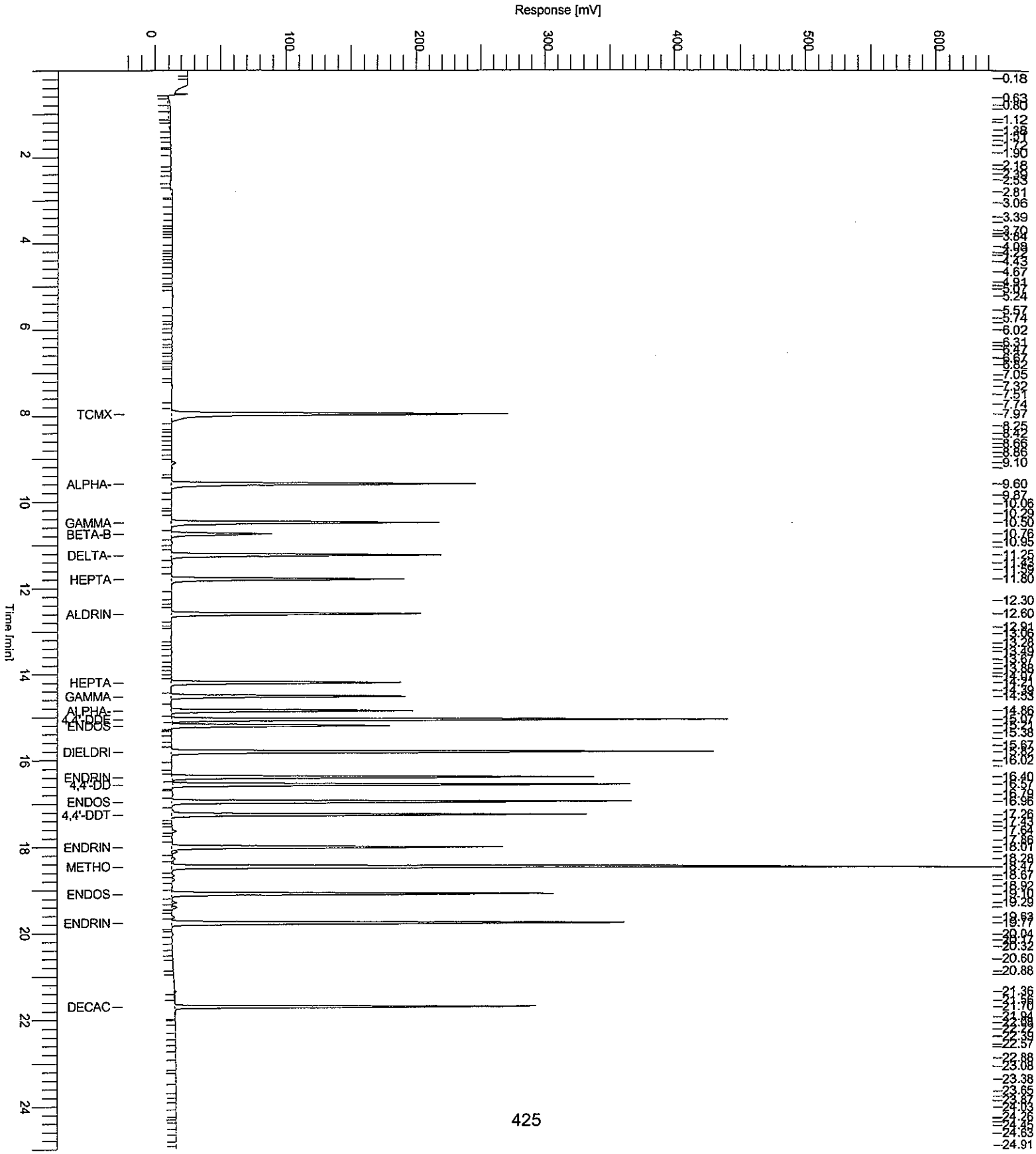
GC23 Rtx-CLPesticides

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a016.raw
ate : 9/27/04 3:42:53 PM
lethod : Time of Injection: 9/24/04 10:10:03 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -24.50 mV High Point : 642.80 mV
lot Offset: -24.50 mV Plot Scale: 667.3 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a016.raw
ate : 9/27/04 3:27:06 PM
lethod : gc23ins Time of Injection: 9/24/04 10:10:03 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -22.84 mV High Point : 642.80 mV
cale Factor: 1.0 Plot Offset: -22.84 mV Plot Scale: 665.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1508,level_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 9/27/04 3:51:54 PM
Data Acquisition Time : 9/24/04 10:10:03 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b016p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

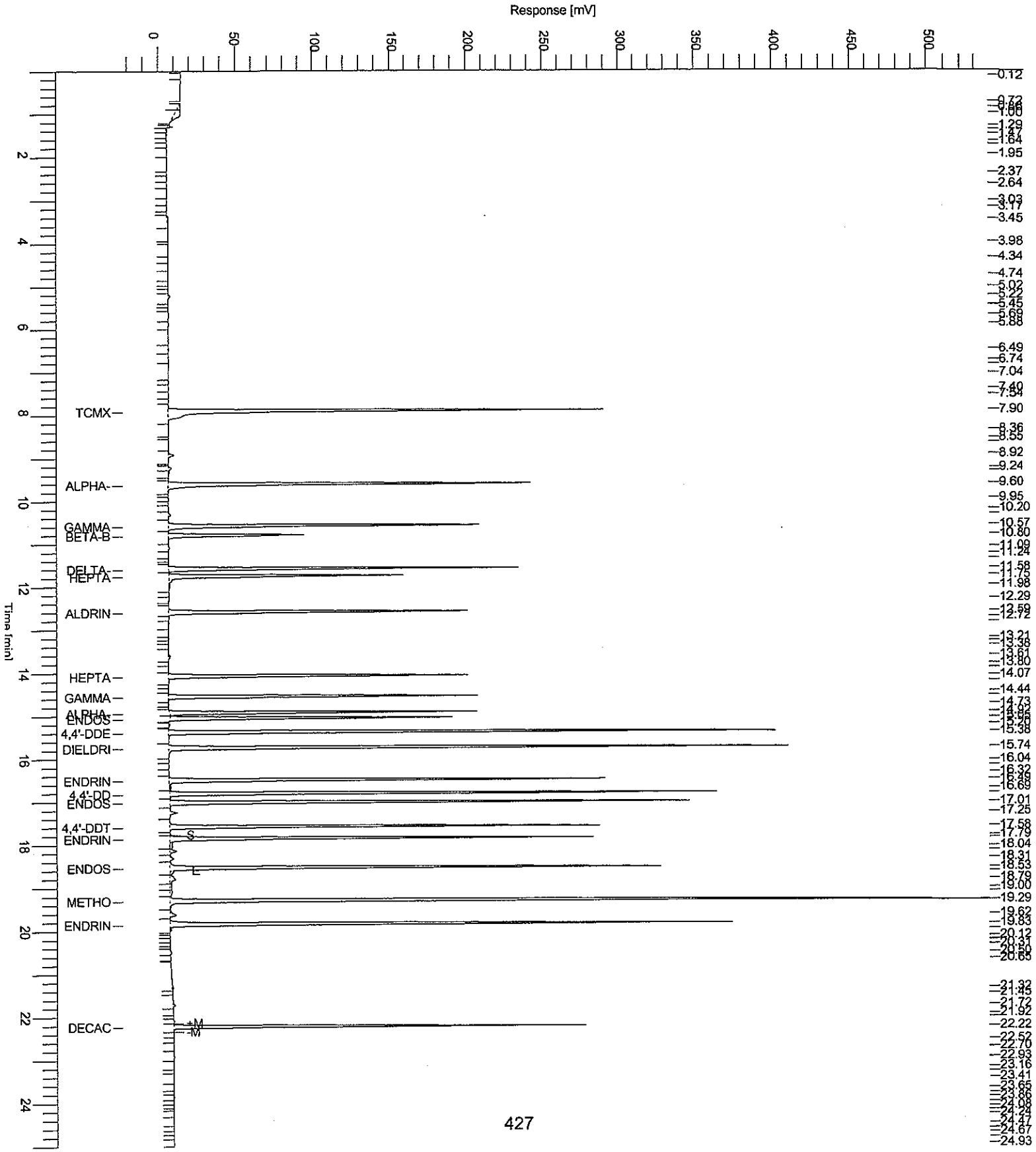
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.902	905575.74	74.8361	1.000	1	74.84
alpha-BHC	9.604	707733.00	38.0135	1.000	1	38.01
gamma-BHC	10.573	629550.87	37.3546	1.000	1	37.35
beta-BHC	10.796	268124.00	35.5648	1.000	1	35.56
delta-BHC	11.581	635154.50	35.9237	1.000	1	35.92
Heptachlor	11.751	445343.00	38.4816	1.000	1	38.48
Aldrin	12.589	586773.66	37.6716	1.000	1	37.67
Heptachlor epoxide	14.069	528295.00	36.9345	1.000	1	36.93
gamma-Chlordane	14.547	556024.28	38.2102	1.000	1	38.21
alpha-Chlordane	14.918	530764.00	38.0053	1.000	1	38.01
Endosulfan I	15.050	494619.00	37.6086	1.000	1	37.61
4,4'-DDE	15.378	1104030.00	82.7209	1.000	1	82.72
Dieldrin	15.736	1104459.49	79.8438	1.000	1	79.84
Endrin	16.488	822294.92	79.0779	1.000	1	79.08
4,4'-DDD	16.802	910655.08	86.1017	1.000	1	86.10
Endosulfan II	17.012	950347.68	79.9201	1.000	1	79.92
4,4'-DDT	17.579	743843.05	77.3956	1.000	1	77.40
Endrin aldehyde	17.850	733786.76	74.3573	1.000	1	74.36
Endosulfan sulfate	18.530	871215.42	78.9913	1.000	1	78.99
Methoxychlor	19.289	1560701.20	397.4763	1.000	1	397.48
Endrin ketone	19.834	1012975.98	87.4626	1.000	1	87.46
Decachlorobiphenyl	22.216	600538.63	93.4066	1.000	1	93.41
		16702805.26	1665.3588			1665.36

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\268b016p.TX0

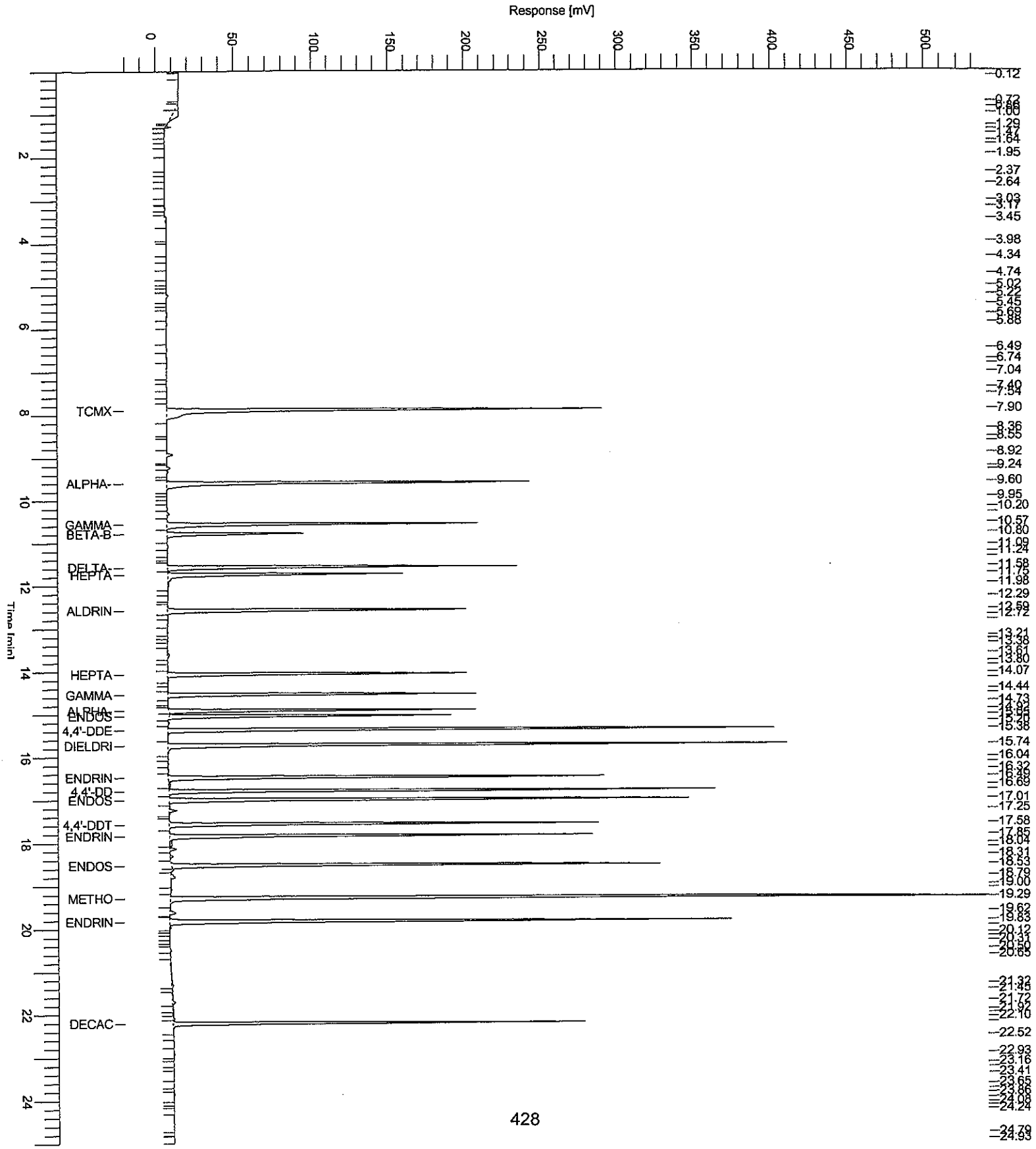
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
leName : G:\gc23\CHb\268b016.raw
ate : 9/27/04 3:51:56 PM
ethod :
Time of Injection: 9/24/04 10:10:03 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -22.78 mV High Point : 539.34 mV
lot Offset: -22.78 mV Plot Scale: 562.1 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1508,level_6 Sample #: Page 1 of 1
leName : G:\gc23\CHb\268b016
ate : 9/27/04 3:27:20 PM
ethod : gc23ins Time of Injection: 9/24/04 10:10:03 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -21.38 mV High Point : 539.33 mV
cale Factor: 1.0 Plot Offset: -21.38 mV Plot Scale: 560.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1507,level_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 9/27/04 4:22:23 PM
Data Acquisition Time : 9/24/04 10:39:24 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a017p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.968	1863445.50	166.2969	1.000	1	166.30
alpha-BHC	9.599	1532279.00	87.8374	1.000	1	87.84
gamma-BHC	10.496	1370682.50	87.1668	1.000	1	87.17
beta-BHC	10.755	513181.22	75.8582	1.000	1	75.86
delta-BHC	11.240	1380335.96	83.8815	1.000	1	83.88
Heptachlor	11.801	1180683.11	84.2743	1.000	1	84.27
Aldrin	12.603	1244991.86	87.0928	1.000	1	87.09
Heptachlor epoxide	14.204	1131811.35	86.1973	1.000	1	86.20
gamma-Chlordane	14.521	1181650.00	88.2173	1.000	1	88.22
alpha-Chlordane	14.863	1126896.00	88.6250	1.000	1	88.62
4,4'-DDE	15.067	2164860.00	177.4647	1.000	1	177.46
Endosulfan I	15.211	1036593.50	85.7871	1.000	1	85.79
Dieldrin	15.816	2167600.37	169.6622	1.000	1	169.66
Endrin	16.397	1750568.00	165.8492	1.000	1	165.85
4,4'-DDD	16.569	1853366.50	190.1305	1.000	1	190.13
Endosulfan II	16.963	1887420.15	171.0160	1.000	1	171.02
4,4'-DDT	17.263	1720461.96	172.9781	1.000	1	172.98
Endrin aldehyde	18.012	1492262.49	159.8799	1.000	1	159.88
Methoxychlor	18.465	2916816.84	708.0764	1.000	1	708.08
Endosulfan sulfate	19.094	1729315.46	173.4389	1.000	1	173.44
Endrin ketone	19.771	1980717.61	174.0788	1.000	1	174.08
Decachlorobiphenyl	21.712	1400881.71	204.1885	1.000	1	204.19
		34626821.09	3487.9976			3488.00

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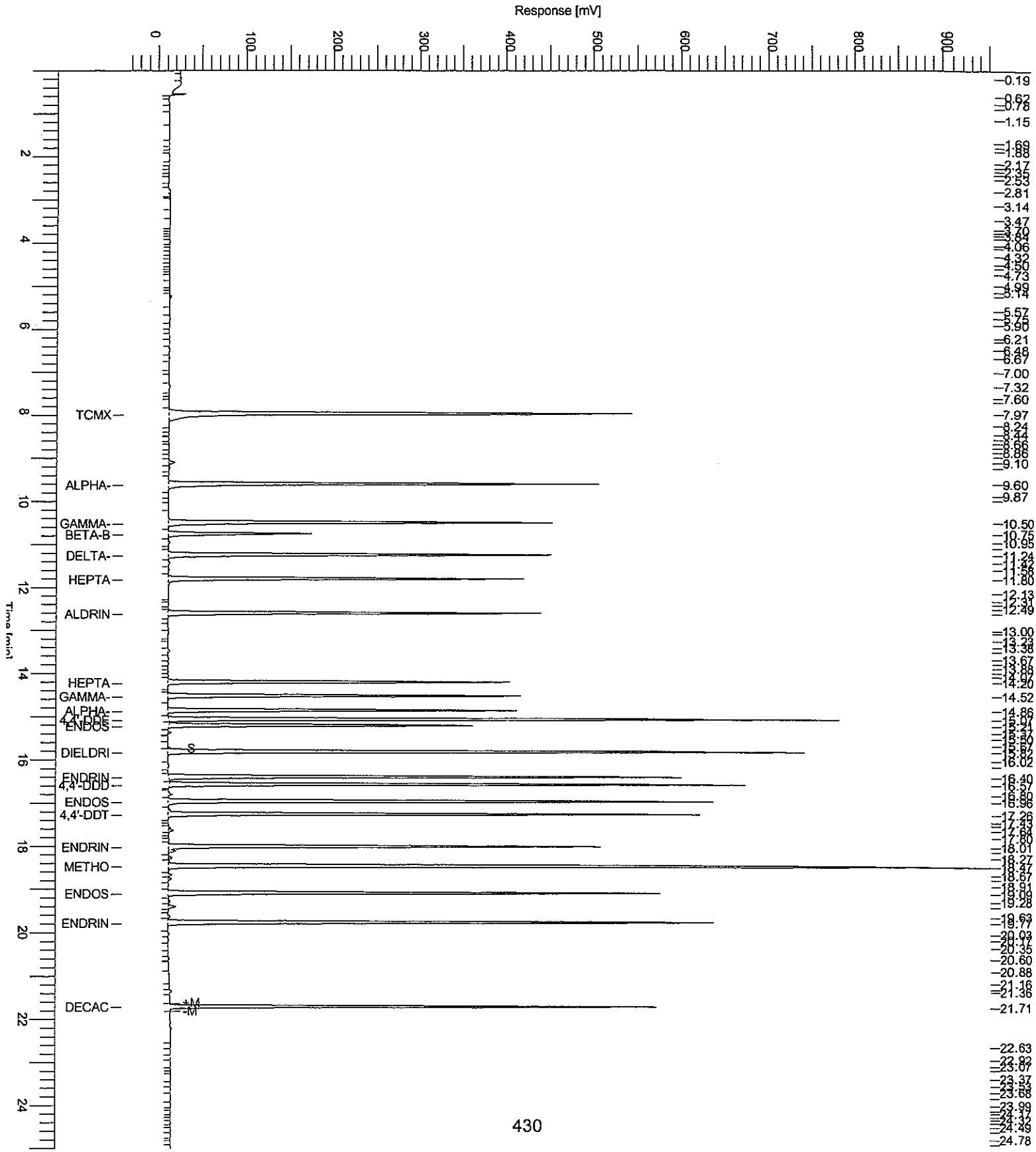
Report stored in ASCII file: G:\gc23\CHA\268a017p.TX0

RM
9/27/04

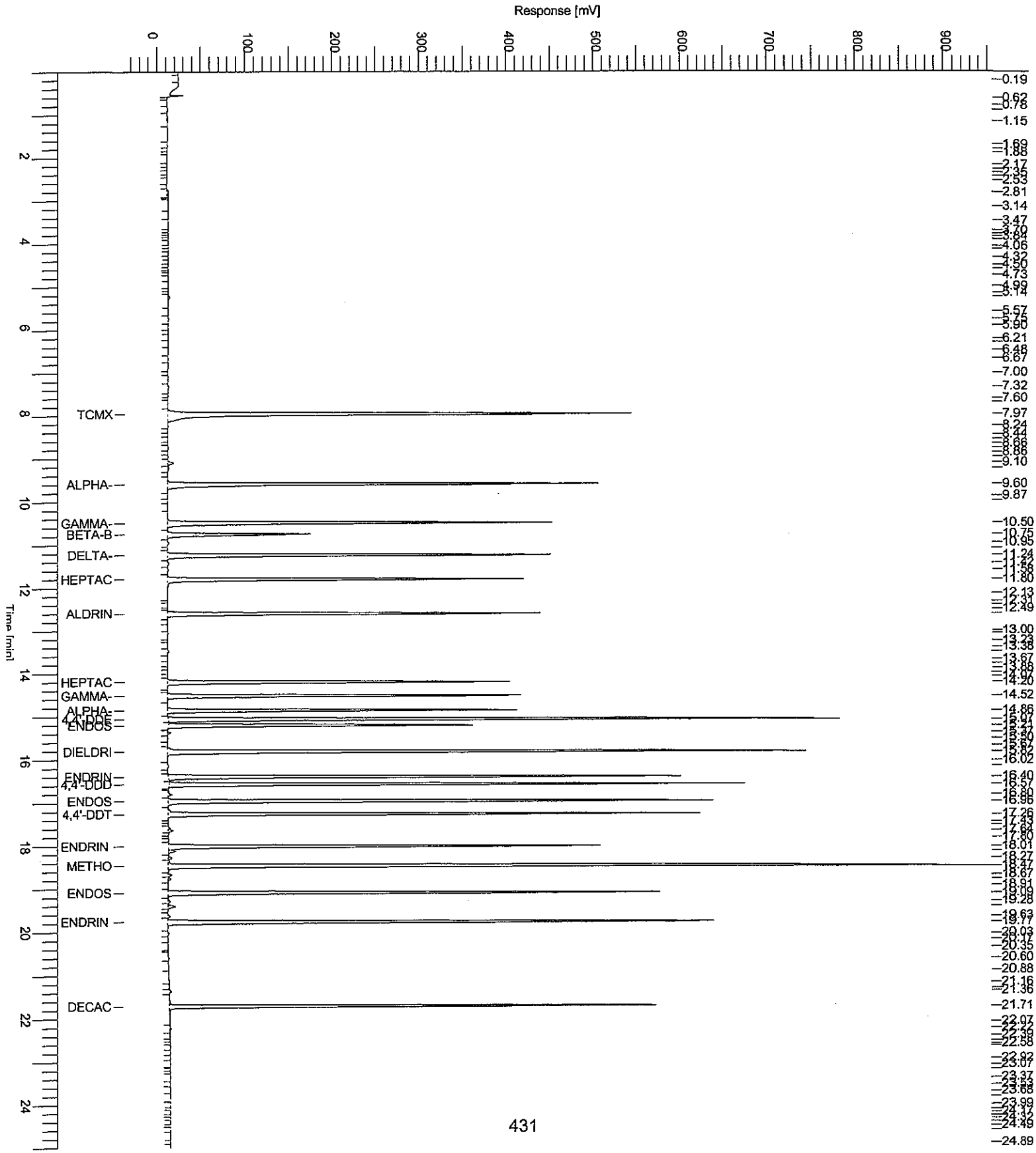
GC23 Rtx-CLPesticides

ample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a017.raw
ate : 9/27/04 4:22:25 PM
ethod : Time of Injection: 9/24/04 10:39:24 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -38.57 mV High Point : 955.88 mV
lot Offset: -38.57 mV Plot Scale: 994.5 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
ileName : G:\gc23\CHA\268a017.raw
ate : 9/27/04 3:27:08 PM
lethod : gc23ins Time of Injection: 9/24/04 10:39:24 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -36.08 mV High Point : 955.88 mV
cale Factor: 1.0 Plot Offset: -36.08 mV Plot Scale: 992.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1507,level_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 17

Date : 9/27/04 3:53:04 PM
Data Acquisition Time : 9/24/04 10:39:24 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b017p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.902	1725855.10	142.6233	1.000	1	142.62
alpha-BHC	9.603	1406139.00	75.5261	1.000	1	75.53
gamma-BHC	10.572	1256411.66	74.5496	1.000	1	74.55
beta-BHC	10.795	508035.50	67.3874	1.000	1	67.39
delta-BHC	11.581	1257676.50	71.1329	1.000	1	71.13
Heptachlor	11.750	910585.47	78.6827	1.000	1	78.68
Aldrin	12.588	1161979.50	74.6006	1.000	1	74.60
Heptachlor epoxide	14.068	1039536.00	72.6767	1.000	1	72.68
gamma-Chlordane	14.545	1102963.00	75.7959	1.000	1	75.80
alpha-Chlordane	14.917	1050313.00	75.2076	1.000	1	75.21
Endosulfan I	15.049	970901.00	73.8230	1.000	1	73.82
4,4'-DDE	15.371	1968850.00	147.5187	1.000	1	147.52
Dieldrin	15.735	1934143.77	139.8234	1.000	1	139.82
Endrin	16.487	1498405.24	144.0976	1.000	1	144.10
4,4'-DDD	16.801	1631632.47	154.2695	1.000	1	154.27
Endosulfan II	17.010	1678962.00	141.1934	1.000	1	141.19
4,4'-DDT	17.577	1388660.00	144.4877	1.000	1	144.49
Endrin aldehyde	17.849	1346281.85	136.4237	1.000	1	136.42
Endosulfan sulfate	18.528	1588769.76	144.0506	1.000	1	144.05
Methoxychlor	19.287	2493280.77	634.9839	1.000	1	634.98
Endrin ketone	19.833	1715434.00	148.1144	1.000	1	148.11
Decachlorobiphenyl	22.217	1028242.05	159.9308	1.000	1	159.93
		30663057.63	2976.8996			2976.90

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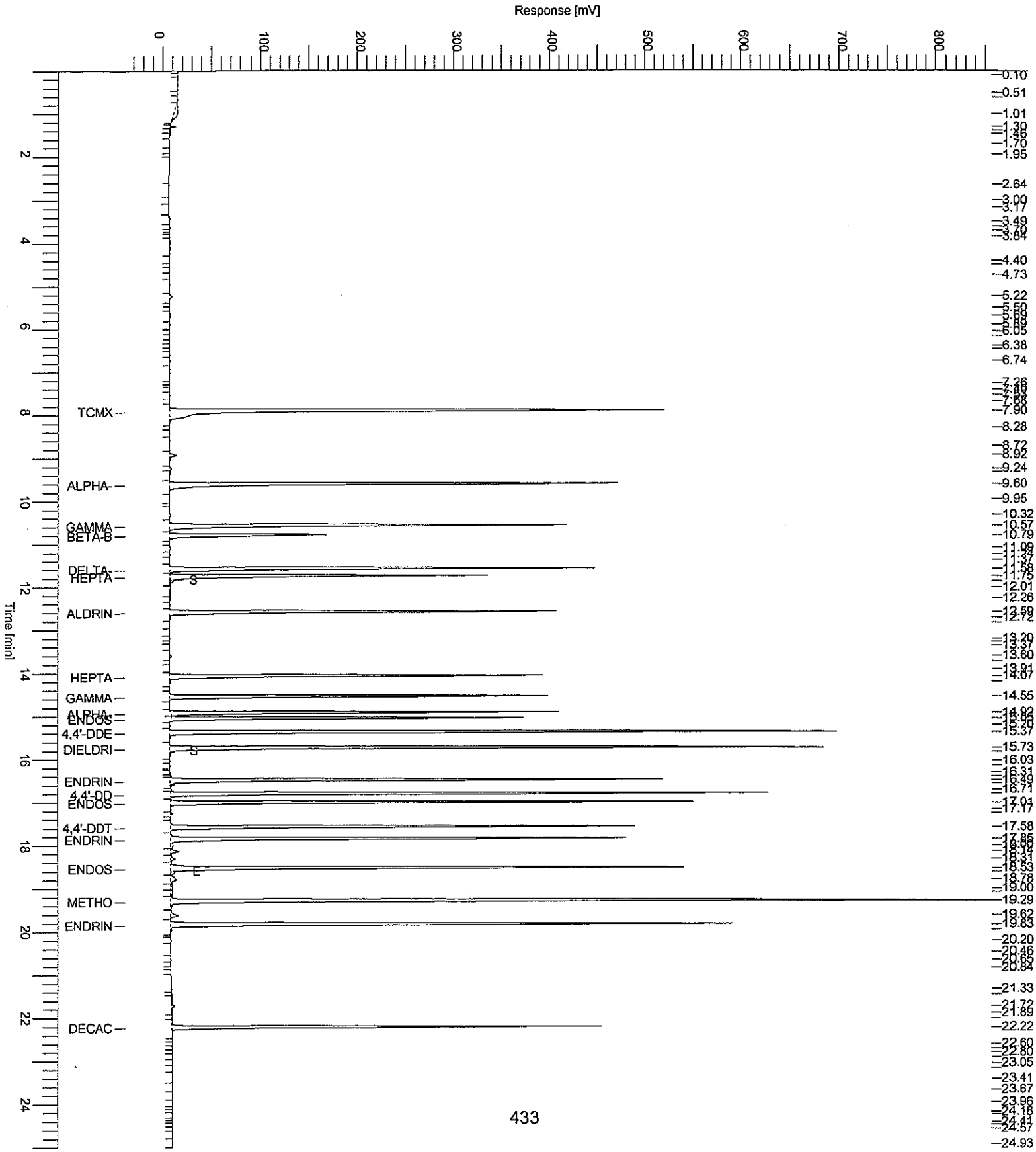
Report stored in ASCII file: G:\gc23\CHB\268b017p.TX0

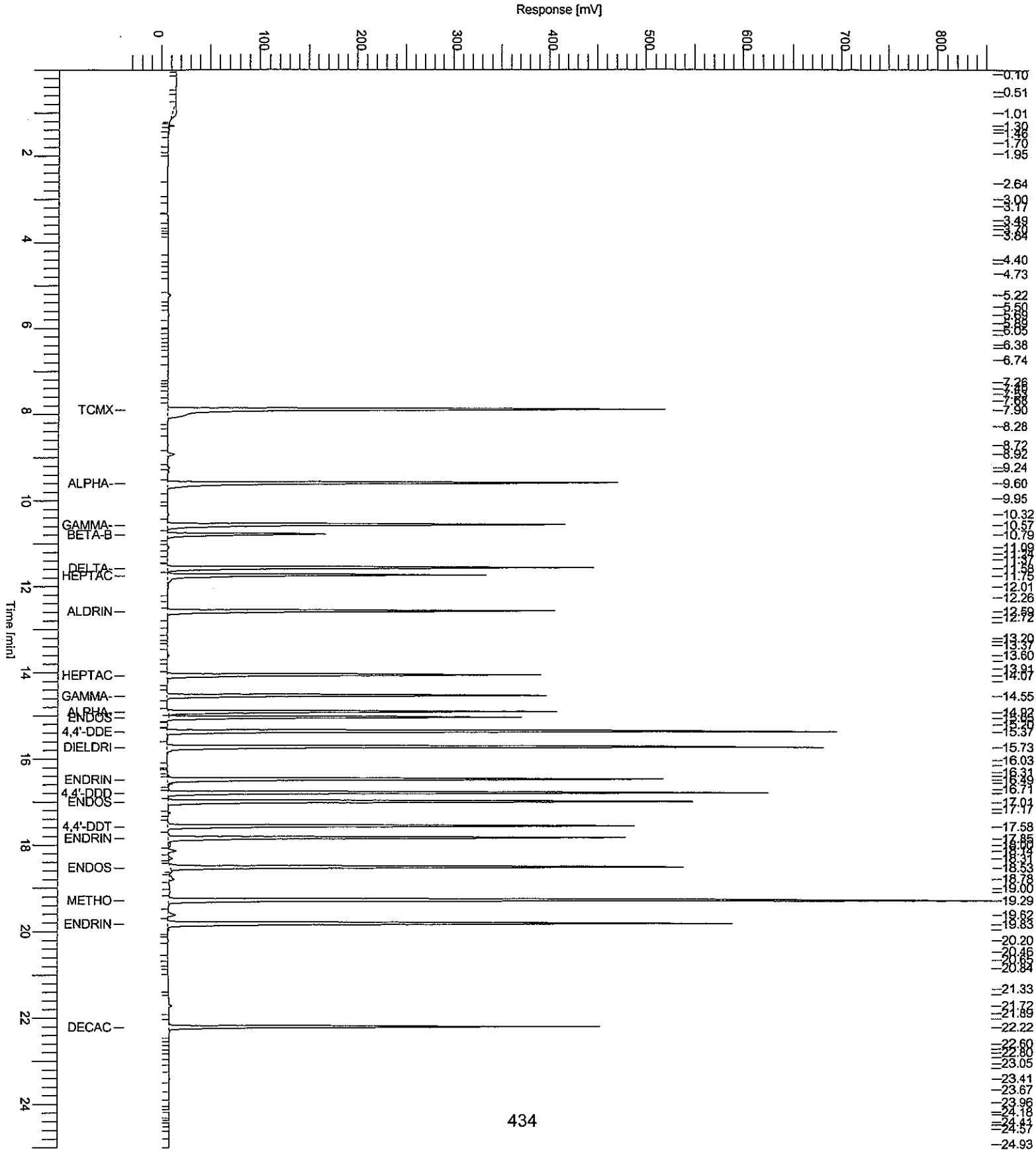
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\268b017.raw
Date : 9/27/04 3:53:06 PM
Method : Time of Injection: 9/24/04 10:39:24 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -39.31 mV High Point : 856.66 mV
Plot Offset: -39.31 mV Plot Scale: 896.0 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1507,level_7 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\268b017
Date : 9/27/04 3:27:22 PM
Method : gc23ins Time of Injection: 9/24/04 10:39:24 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -37.07 mV High Point : 856.66 mV
Scale Factor: 1.0 Plot Offset: -37.07 mV Plot Scale: 893.7 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804386835020
Calnum : 804386835001
Standards: 04WS1584

Run Name : icv
Filename : 268_020
Caldate : 24-SEP-2004

Injected : 25-SEP-2004 00:07
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	24.96801	pg	0	15	
gamma-BHC	A	25.00000	25.25400	pg	1	15	
beta-BHC	A	25.00000	24.99696	pg	0	15	
delta-BHC	A	25.00000	25.84711	pg	3	15	
Heptachlor	A	25.00000	26.36157	pg	5	15	
Aldrin	A	25.00000	25.68902	pg	3	15	
Heptachlor epoxide	A	25.00000	24.92600	pg	0	15	
gamma-Chlordane	A	25.00000	24.76729	pg	-1	15	
alpha-Chlordane	A	25.00000	25.11017	pg	0	15	
4,4'-DDE	A	25.00000	25.48255	pg	2	15	
Endosulfan I	A	25.00000	25.51393	pg	2	15	
Dieldrin	A	25.00000	25.81540	pg	3	15	
Endrin	A	25.00000	26.14671	pg	5	15	
4,4'-DDD	A	25.00000	24.77380	pg	-1	15	
Endosulfan II	A	25.00000	25.90265	pg	4	15	
4,4'-DDT	A	25.00000	28.83416	pg	15	15	
Endrin aldehyde	A	25.00000	25.15549	pg	1	15	
Methoxychlor	A	25.00000	32.34982	pg	**29**	15	v+ ***
Endosulfan sulfate	A	25.00000	25.94566	pg	4	15	
Endrin ketone	A	25.00000	25.44731	pg	2	15	
TCMX	A	25.00000	27.36560	pg	9	15	
Decachlorobiphenyl	A	25.00000	24.67143	pg	-1	15	
alpha-BHC	B	25.00000	23.74826	pg	-5	15	
gamma-BHC	B	25.00000	23.94144	pg	-4	15	
beta-BHC	B	25.00000	23.35657	pg	-7	15	
delta-BHC	B	25.00000	24.56249	pg	-2	15	
Heptachlor	B	25.00000	25.19920	pg	1	15	
Aldrin	B	25.00000	24.49773	pg	-2	15	
Heptachlor epoxide	B	25.00000	23.86632	pg	-5	15	
gamma-Chlordane	B	25.00000	23.53325	pg	-6	15	
alpha-Chlordane	B	25.00000	24.03253	pg	-4	15	
4,4'-DDE	B	25.00000	24.64629	pg	-1	15	
Endosulfan I	B	25.00000	24.40840	pg	-2	15	
Dieldrin	B	25.00000	24.72131	pg	-1	15	
Endrin	B	25.00000	25.04455	pg	0	15	
4,4'-DDD	B	25.00000	24.40409	pg	-2	15	
Endosulfan II	B	25.00000	24.73075	pg	-1	15	
4,4'-DDT	B	25.00000	25.29724	pg	1	15	
Endrin aldehyde	B	25.00000	23.96629	pg	-4	15	
Methoxychlor	B	25.00000	28.57847	pg	14	15	
Endosulfan sulfate	B	25.00000	23.94749	pg	-4	15	
Endrin ketone	B	25.00000	24.01370	pg	-4	15	
TCMX	B	25.00000	26.30190	pg	5	15	
Decachlorobiphenyl	B	25.00000	22.47348	pg	-10	15	

+=high bias v=ICV
Page 1 of 1

/mcr 9/28/04

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
alpha-BHC	A	804386835020	25-SEP-2004	25.000	24.968	pg	0	15	
gamma-BHC	A	804386835020	25-SEP-2004	25.000	25.254	pg	1	15	
beta-BHC	A	804386835020	25-SEP-2004	25.000	24.997	pg	0	15	
delta-BHC	A	804386835020	25-SEP-2004	25.000	25.847	pg	3	15	
Heptachlor	A	804386835020	25-SEP-2004	25.000	26.362	pg	5	15	
Aldrin	A	804386835020	25-SEP-2004	25.000	25.689	pg	3	15	
Heptachlor epoxide	A	804386835020	25-SEP-2004	25.000	24.926	pg	0	15	
gamma-Chlordane	A	804386835020	25-SEP-2004	25.000	24.767	pg	-1	15	
alpha-Chlordane	A	804386835020	25-SEP-2004	25.000	25.110	pg	0	15	
4,4'-DDE	A	804386835020	25-SEP-2004	25.000	25.483	pg	2	15	
Endosulfan I	A	804386835020	25-SEP-2004	25.000	25.514	pg	2	15	
Dieldrin	A	804386835020	25-SEP-2004	25.000	25.815	pg	3	15	
Endrin	A	804386835020	25-SEP-2004	25.000	26.147	pg	5	15	
4,4'-DDD	A	804386835020	25-SEP-2004	25.000	24.774	pg	-1	15	
Endosulfan II	A	804386835020	25-SEP-2004	25.000	25.903	pg	4	15	
4,4'-DDT	A	804386835020	25-SEP-2004	25.000	28.834	pg	15	15	
Endrin aldehyde	A	804386835020	25-SEP-2004	25.000	25.155	pg	1	15	
Methoxychlor	A	804386835020	25-SEP-2004	25.000	32.350	pg	**29**	15	v+ ***
Endosulfan sulfate	A	804386835020	25-SEP-2004	25.000	25.946	pg	4	15	
Endrin ketone	A	804386835020	25-SEP-2004	25.000	25.447	pg	2	15	
TCMX	A	804386835020	25-SEP-2004	25.000	27.366	pg	9	15	
Decachlorobiphenyl	A	804386835020	25-SEP-2004	25.000	24.671	pg	-1	15	
alpha-BHC	B	804386835020	25-SEP-2004	25.000	23.748	pg	-5	15	
gamma-BHC	B	804386835020	25-SEP-2004	25.000	23.941	pg	-4	15	
beta-BHC	B	804386835020	25-SEP-2004	25.000	23.357	pg	-7	15	
delta-BHC	B	804386835020	25-SEP-2004	25.000	24.562	pg	-2	15	
Heptachlor	B	804386835020	25-SEP-2004	25.000	25.199	pg	1	15	
Aldrin	B	804386835020	25-SEP-2004	25.000	24.498	pg	-2	15	
Heptachlor epoxide	B	804386835020	25-SEP-2004	25.000	23.866	pg	-5	15	
gamma-Chlordane	B	804386835020	25-SEP-2004	25.000	23.533	pg	-6	15	
alpha-Chlordane	B	804386835020	25-SEP-2004	25.000	24.033	pg	-4	15	
4,4'-DDE	B	804386835020	25-SEP-2004	25.000	24.646	pg	-1	15	
Endosulfan I	B	804386835020	25-SEP-2004	25.000	24.408	pg	-2	15	
Dieldrin	B	804386835020	25-SEP-2004	25.000	24.721	pg	-1	15	
Endrin	B	804386835020	25-SEP-2004	25.000	25.045	pg	0	15	
4,4'-DDD	B	804386835020	25-SEP-2004	25.000	24.404	pg	-2	15	
Endosulfan II	B	804386835020	25-SEP-2004	25.000	24.731	pg	-1	15	
4,4'-DDT	B	804386835020	25-SEP-2004	25.000	25.297	pg	1	15	
Endrin aldehyde	B	804386835020	25-SEP-2004	25.000	23.966	pg	-4	15	
Methoxychlor	B	804386835020	25-SEP-2004	25.000	28.578	pg	14	15	
Endosulfan sulfate	B	804386835020	25-SEP-2004	25.000	23.947	pg	-4	15	
Endrin ketone	B	804386835020	25-SEP-2004	25.000	24.014	pg	-4	15	
TCMX	B	804386835020	25-SEP-2004	25.000	26.302	pg	5	15	
Decachlorobiphenyl	B	804386835020	25-SEP-2004	25.000	22.473	pg	-10	15	

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	4	15	
EPA 8081A	B	22	4	15	

+=high bias v=ICV

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws1240
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 9/27/04 5:00:40 PM
Data Acquisition Time : 9/25/04 12:07:52 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\268a020p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.971	256627.14	27.3656	1.000	1	27.37
alpha-BHC	9.602	362778.00	24.9680	1.000	1	24.97
gamma-BHC	10.498	331296.51	25.2540	1.000	1	25.25
beta-BHC	10.761	139313.62	24.9970	1.000	1	25.00
delta-BHC	11.246	339310.97	25.8471	1.000	1	25.85
Heptachlor	11.802	283627.91	26.3616	1.000	1	26.36
Aldrin	12.605	310946.07	25.6890	1.000	1	25.69
Heptachlor epoxide	14.206	281180.42	24.9260	1.000	1	24.93
gamma-Chlordane	14.528	282078.00	24.7673	1.000	1	24.77
alpha-Chlordane	14.864	276919.00	25.1102	1.000	1	25.11
4,4'-DDE	15.069	278003.00	25.4826	1.000	1	25.48
Endosulfan I	15.213	264898.50	25.5139	1.000	1	25.51
Dieldrin	15.817	291529.00	25.8154	1.000	1	25.82
Endrin	16.398	228405.00	26.1467	1.000	1	26.15
4,4'-DDD	16.571	233978.00	24.7738	1.000	1	24.77
Endosulfan II	16.965	252553.53	25.9026	1.000	1	25.90
4,4'-DDT	17.264	220723.00	28.8342	1.000	1	28.83
Endrin aldehyde	18.013	192749.69	25.1555	1.000	1	25.16
Methoxychlor	18.466	109329.36	32.3498	1.000	1	32.35
Endosulfan sulfate	19.096	223536.34	25.9457	1.000	1	25.95
Endrin ketone	19.772	266810.43	25.4473	1.000	1	25.45
Decachlorobiphenyl	21.705	163877.33	24.6714	1.000	1	24.67
		5590470.84	571.3246			571.32

281180/11281 = 24.925

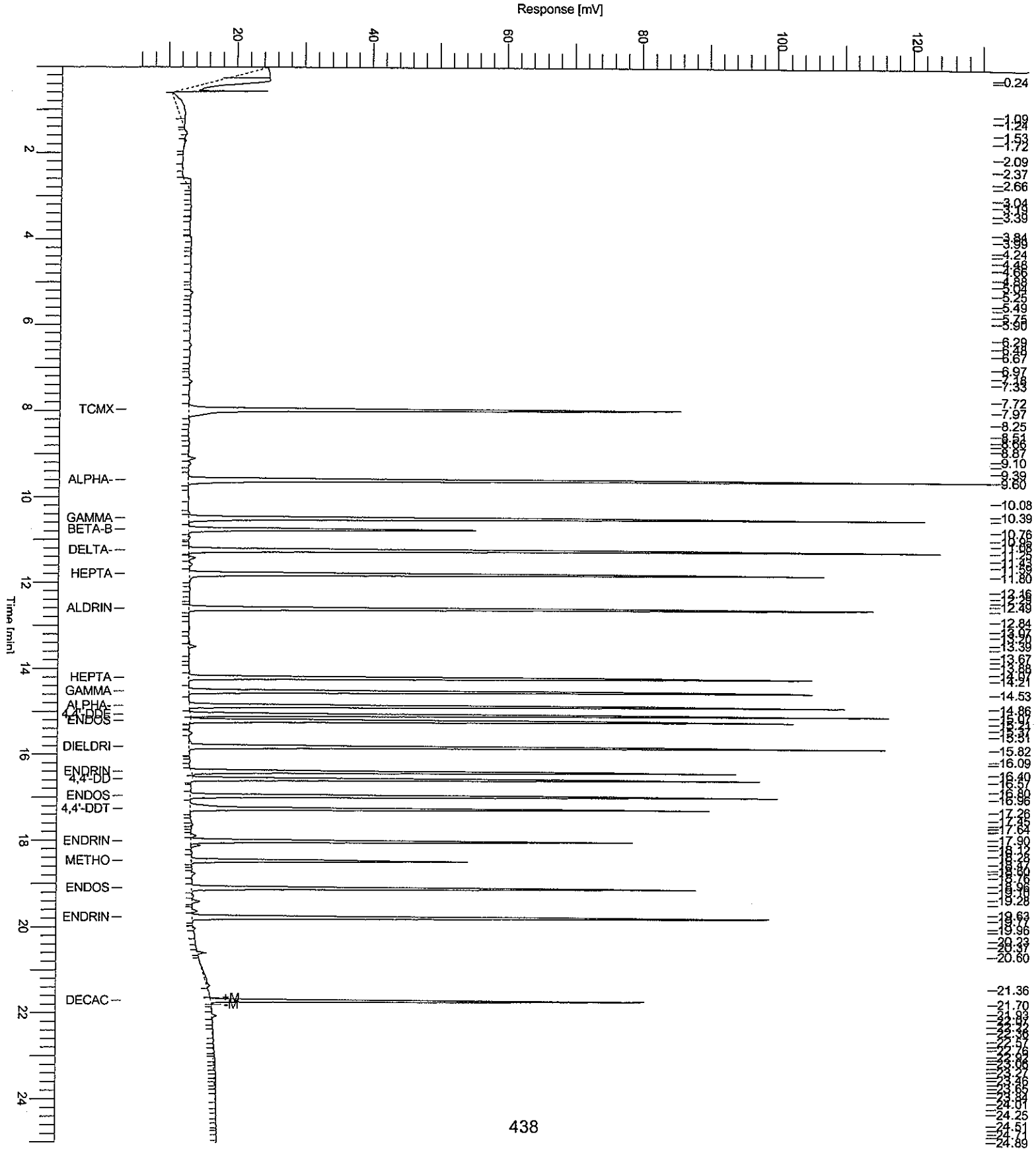
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\268a020p.TX0

9/27/04

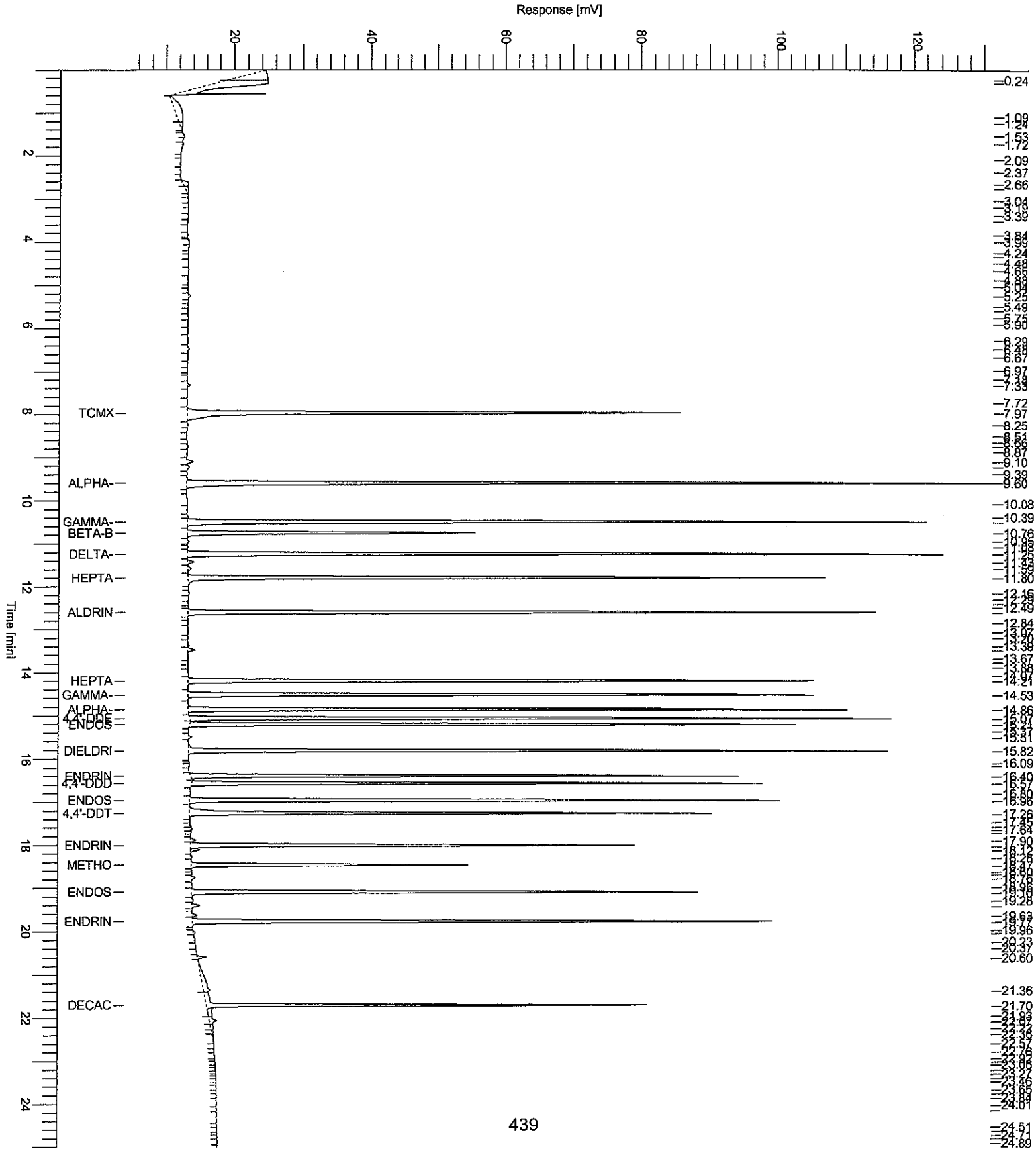
GC23 Rtx-CLPesticides

Sample Name : x,icv,04ws1240 Sample #: 25ug/L
FileName : G:\gc23\CHa\268a020.raw
Date : 9/27/04 5:00:42 PM
Method : Time of Injection: 9/25/04 12:07:52 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.00 mV High Point : 131.38 mV
Plot Offset: 4.00 mV Plot Scale: 127.4 mV



GC23 Rtx-CLPesticides

Sample Name : x,icv,04ws1240 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc23\CHa\268a020.raw
Date : 9/27/04 4:33:11 PM
Method : gc23ins Time of Injection: 9/25/04 12:07:52 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.32 mV High Point : 131.38 mV
Scale Factor: 1.0 Plot Offset: 4.32 mV Plot Scale: 127.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws1240
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 9/27/04 5:01:18 PM
Data Acquisition Time : 9/25/04 12:07:52 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\268b020p.rst
Sequence File : G:\gc23\Files\268.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.904	246173.08	26.3019	1.000	1	26.30
alpha-BHC	9.605	339823.00	23.7483	1.000	1	23.75
gamma-BHC	10.579	309761.00	23.9414	1.000	1	23.94
beta-BHC	10.797	135249.00	23.3566	1.000	1	23.36
delta-BHC	11.583	318453.00	24.5625	1.000	1	24.56
Heptachlor	11.752	215751.92	25.1992	1.000	1	25.20
Aldrin	12.594	297876.29	24.4977	1.000	1	24.50
Heptachlor epoxide	14.070	265573.88	23.8663	1.000	1	23.87
gamma-Chlordane	14.547	271659.44	23.5333	1.000	1	23.53
alpha-Chlordane	14.919	267440.00	24.0325	1.000	1	24.03
Endosulfan I	15.050	254497.00	24.4084	1.000	1	24.41
4,4'-DDE	15.377	269729.00	24.6463	1.000	1	24.65
Dieldrin	15.736	274466.96	24.7213	1.000	1	24.72
Endrin	16.488	204531.00	25.0445	1.000	1	25.04
4,4'-DDD	16.802	224039.50	24.4041	1.000	1	24.40
Endosulfan II	17.012	238260.00	24.7307	1.000	1	24.73
4,4'-DDT	17.579	167639.00	25.2972	1.000	1	25.30
Endrin aldehyde	17.850	183537.54	23.9663	1.000	1	23.97
Endosulfan sulfate	18.530	208623.00	23.9475	1.000	1	23.95
Methoxychlor	19.288	87476.54	28.5785	1.000	1	28.58
Endrin ketone	19.834	248226.97	24.0137	1.000	1	24.01
Decachlorobiphenyl	22.216	137148.64	22.4735	1.000	1	22.47
		5165935.76	539.2717			539.27

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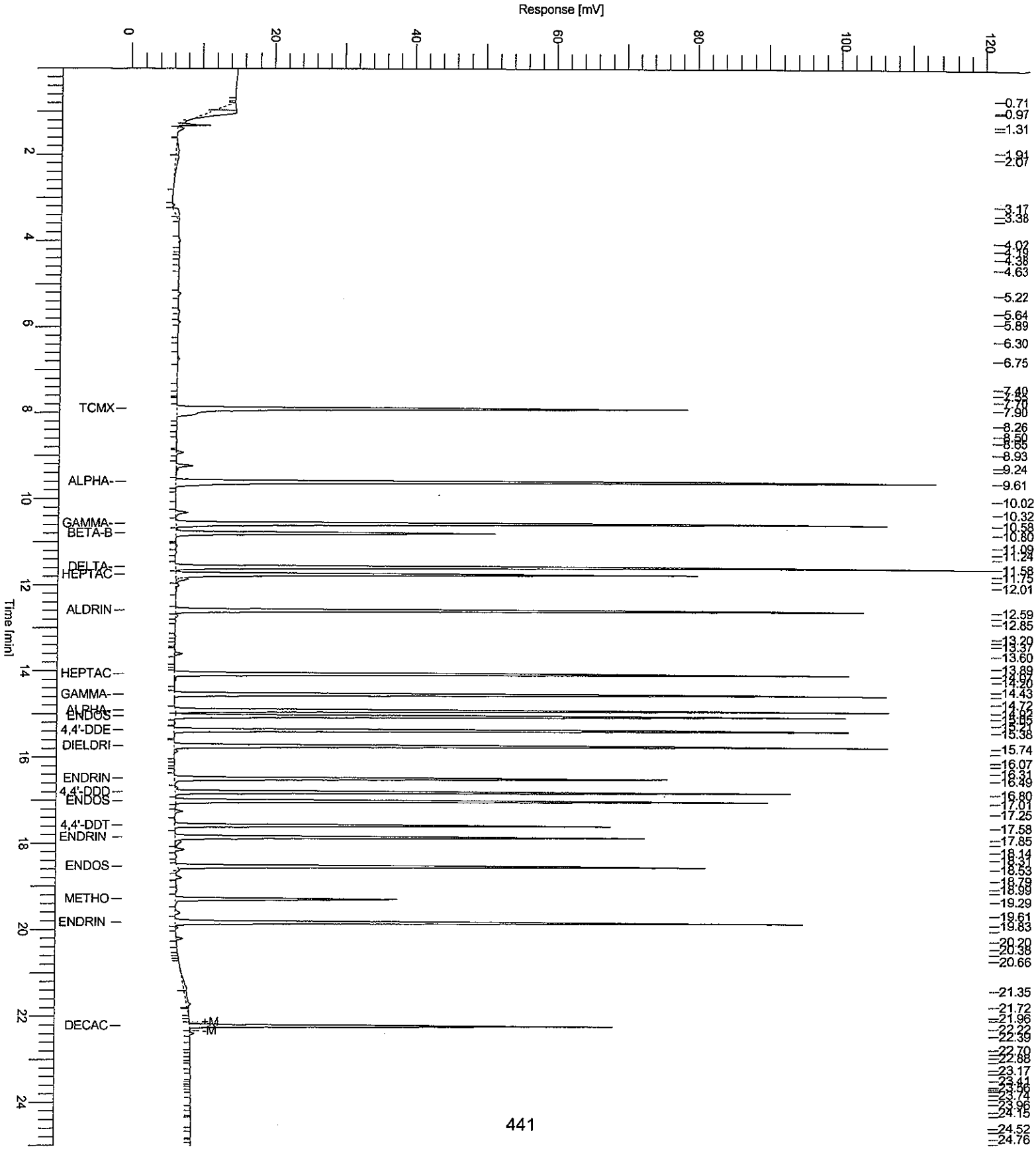
Report stored in ASCII file: G:\gc23\CHB\268b020p.TX0

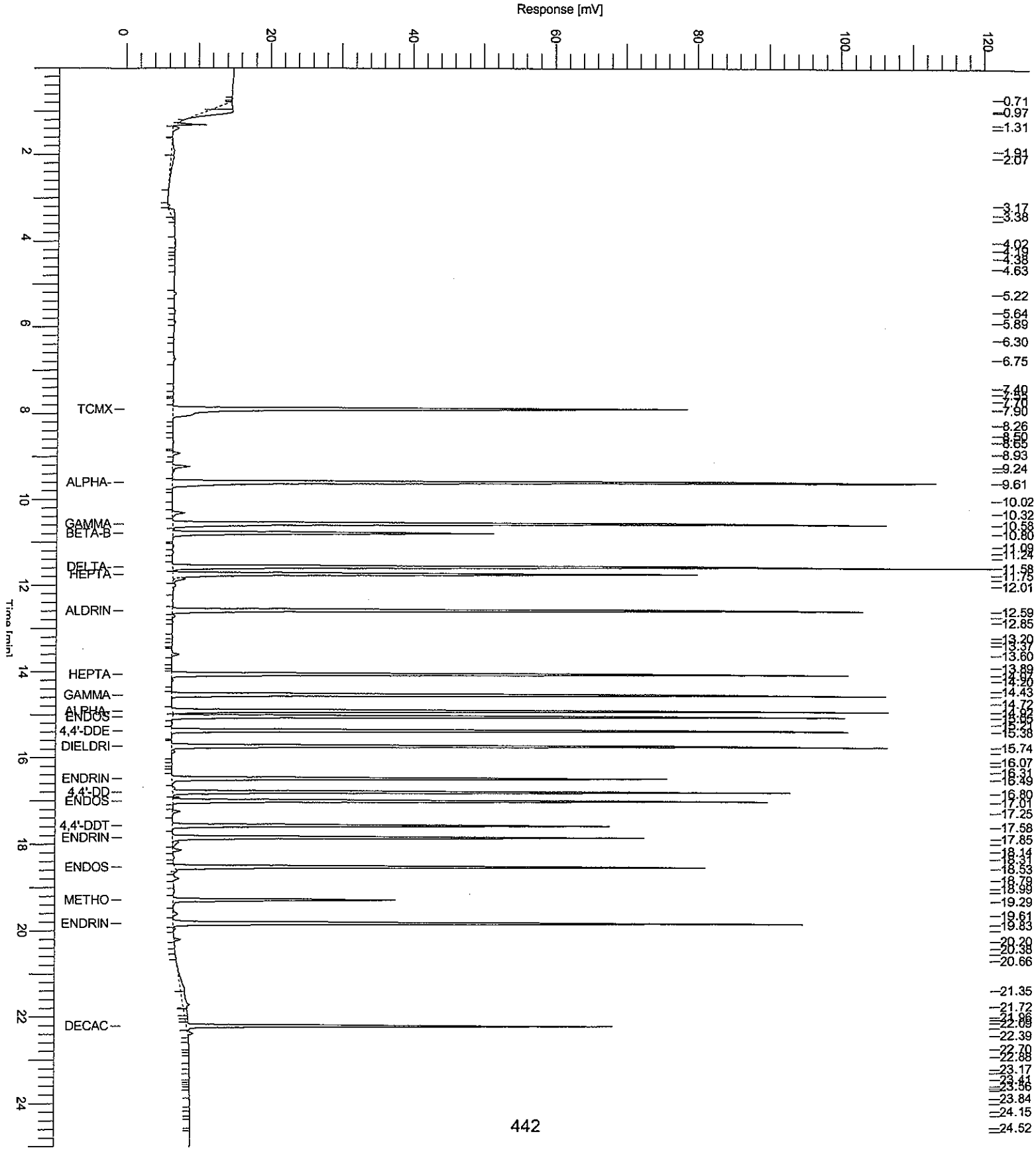
GC23 Rtx-CLPesticides2

Sample Name : x,icv,04ws1240 Sample #: 25ug/L
FileName : G:\gc23\CHb\268b020.raw
Date : 9/27/04 5:01:20 PM
Method : Time of Injection: 9/25/04 12:07:52 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.36 mV High Point : 121.18 mV
Plot Offset: -0.36 mV Plot Scale: 121.5 mV



GC23 Rtx-CLPesticides2

Sample Name : x,icv,04ws1240 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc23\CHb\268b020
Date : 9/27/04 4:33:07 PM
Method : gc23ins Time of Injection: 9/25/04 12:07:52 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.05 mV High Point : 121.18 mV
Scale Factor: 1.0 Plot Offset: -0.05 mV Plot Scale: 121.2 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: [illegible] 10/14/04
Calnum: 804412857001 Name: Type: (normal) Date: 12-OCT-2004 23:34 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	286_021	804412857021	pest_1	12-OCT-2004 23:34	04WS1628
2	286_022	804412857022	pest_2	13-OCT-2004 00:04	04WS1629
3	286_023	804412857023	pest_3	13-OCT-2004 00:34	04WS1630
4	286_024	804412857024	pest_4	13-OCT-2004 01:04	04WS1632
5	286_025	804412857025	pest_5	13-OCT-2004 01:35	04WS1633
6	286_026	804412857026	pest_6	13-OCT-2004 02:05	04WS1634
7	286_027	804412857027	pest_7	13-OCT-2004 02:36	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	14720	13563	13625	15166	14787	14035	14073	AVRG	R		7.002E-5		pg	14281	4	0.995	20	
gamma-BHC	A	13916	12464	12356	13658	13324	12495	12615	AVRG	R		7.707E-5		pg	12975	5	0.995	20	
beta-BHC	A	6529.0	5549.2	5568.1	5949.7	5684.9	5054.7	4752.6	AVRG	R		1.791E-4		pg	5584.0	10	0.995	20	
delta-BHC	A	13802	12309	12319	13730	13186	12503	12691	AVRG	R		7.731E-5		pg	12934	5	0.995	20	
Heptachlor	A	11935	10550	10782	11996	11618	11025	11140	AVRG	R		8.856E-5		pg	11292	5	0.995	20	
Aldrin	A	12955	11317	11281	12486	12002	11340	11343	AVRG	R		8.462E-5		pg	11818	6	0.995	20	
Heptachlor epoxide	A	12332	10564	10610	11624	10991	10378	10292	AVRG	R		9.116E-5		pg	10970	7	0.995	20	
gamma-Chlordane	A	12425	10636	10529	11687	11087	10639	10607	AVRG	R		9.019E-5		pg	11087	6	0.995	20	
alpha-Chlordane	A	11925	10216	10204	11307	10709	10165	10185	AVRG	R		9.369E-5		pg	10673	7	0.995	20	
4,4'-DDE	A	11150	9724.5	9836.4	11385	10961	11019	9681.7	AVRG	R		9.491E-5		pg	10537	7	0.995	20	
Endosulfan I	A	11324	9770.2	9811.1	10753	10224	9586.0	9428.3	AVRG	R		9.874E-5		pg	10128	7	0.995	20	
Dieldrin	A	11841	10197	10357	11756	11217	11191	9734.4	AVRG	R		9.175E-5		pg	10899	7	0.995	20	
Endrin	A	9598.8	8051.0	8001.1	9541.5	8975.3	8525.0	7769.9	AVRG	R		1.158E-4		pg	8637.5	9	0.995	20	
4,4'-DDD	A	9508.2	8109.0	8169.8	9266.6	8830.1	8880.3	8017.4	AVRG	R		1.152E-4		pg	8683.1	7	0.995	20	
Endosulfan II	A	10455	8798.1	8891.9	9943.4	9323.9	9412.5	8373.1	AVRG	R		1.074E-4		pg	9314.0	8	0.995	20	
4,4'-DDT	A	8813.4	7403.1	7739.5	9010.4	8591.1	8863.2	8049.8	AVRG	R		1.197E-4		pg	8352.9	7	0.995	20	
Endrin aldehyde	A	8765.4	7221.2	7238.0	7703.5	7230.9	7253.7	6838.7	AVRG	R		1.340E-4		pg	7464.5	8	0.995	20	
Methoxychlor	A	4170.2	3393.0	3505.7	4367.9	4065.0	3518.5	2753.1	AVRG	R		2.716E-4		pg	3681.9	15	0.995	20	
Endosulfan sulfate	A	9613.8	7847.6	7915.0	8784.2	8231.9	8167.9	7638.0	AVRG	R		1.203E-4		pg	8314.1	8	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

RA 10/13/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By:
Calnum: 804412857001 Name: Type: (normal) Date: 12-OCT-2004 23:34 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	11997	9764.7	9892.4	10910	10312	10344	8976.6	AVRG	R		9.696E-5		pg	10314	9	0.995	20	
TCMX	A	10240	9211.9	8940.9	9634.0	8651.1	8989.7	8670.6	AVRG	R		1.088E-4		pg	9191.2	6	0.995	20	
Decachlorobiphenyl	A	7533.3	6091.4	6177.9	6801.4	6479.1	6392.9	5955.1	AVRG	R		1.541E-4		pg	6490.2	8	0.995	20	
alpha-BHC	B	10081	10148	10377	10331	9891.1	9894.0	10569	AVRG	R		9.819E-5		pg	10184	2	0.995	20	
gamma-BHC	B	9268.5	9281.0	9394.3	9388.0	8841.5	8857.6	9405.3	AVRG	R		1.086E-4		pg	9205.2	3	0.995	20	
beta-BHC	B	4457.0	4297.6	4250.4	4158.4	3839.9	3734.7	3746.0	AVRG	R		2.458E-4		pg	4069.1	7	0.995	20	
delta-BHC	B	8988.5	9071.1	9212.2	9283.4	8618.4	8757.1	9411.7	AVRG	R		1.105E-4		pg	9048.9	3	0.995	20	
Heptachlor	B	5956.0	6220.2	6459.3	6521.6	6059.8	6286.1	6673.7	AVRG	R		1.585E-4		pg	6311.0	4	0.995	20	
Aldrin	B	8765.6	8753.4	8855.5	8936.4	8179.0	8274.6	8736.0	AVRG	R		1.157E-4		pg	8642.9	3	0.995	20	
Heptachlor epoxide	B	8247.5	8260.3	8273.2	8355.3	7474.1	7526.6	7804.4	AVRG	R		1.251E-4		pg	7991.6	5	0.995	20	
gamma-Chlordane	B	8386.5	8394.9	8378.1	8560.1	7600.1	7818.8	8301.9	AVRG	R		1.219E-4		pg	8205.8	4	0.995	20	
alpha-Chlordane	B	8262.0	8224.7	8172.2	8325.1	7369.3	7535.1	7926.1	AVRG	R		1.254E-4		pg	7973.5	5	0.995	20	
4,4'-DDE	B	7872.3	8063.6	8127.0	8381.0	7406.0	7946.5	7635.7	AVRG	R		1.263E-4		pg	7918.8	4	0.995	20	
Endosulfan I	B	7725.3	7786.1	7762.1	7867.7	7005.0	7087.2	7370.8	AVRG	R		1.331E-4		pg	7514.9	5	0.995	20	
Dieldrin	B	8289.5	8316.9	8382.3	8566.1	7564.5	7950.7	7597.4	AVRG	R		1.235E-4		pg	8095.3	5	0.995	20	
Endrin	B	6651.3	6736.4	6756.8	6958.8	6107.2	6119.3	6225.6	AVRG	R		1.537E-4		pg	6507.9	5	0.995	20	
4,4'-DDD	B	6595.6	6689.8	6642.6	6833.2	5891.9	6250.9	6253.4	AVRG	R		1.550E-4		pg	6451.1	5	0.995	20	
Endosulfan II	B	7405.0	7423.5	7258.9	7378.9	6398.4	6664.7	6585.2	AVRG	R		1.425E-4		pg	7016.4	6	0.995	20	
4,4'-DDT	B	5199.1	5522.7	5594.8	5803.1	4987.4	5454.0	5820.7	AVRG	R		1.824E-4		pg	5483.1	6	0.995	20	
Endrin aldehyde	B	6157.6	6090.0	5805.5	5683.5	4964.1	5156.4	5304.1	AVRG	R		1.787E-4		pg	5594.5	8	0.995	20	
Methoxychlor	B	2682.6	2757.8	2705.8	2703.4	2279.3	2413.8	2160.3	AVRG	R		3.954E-4		pg	2529.0	10	0.995	20	
Endosulfan sulfate	B	6725.5	6657.1	6398.5	6521.0	5625.1	5898.0	6143.3	AVRG	R		1.592E-4		pg	6281.2	7	0.995	20	
Endrin ketone	B	8190.5	8176.5	7852.3	7747.1	6588.6	7015.2	6886.1	AVRG	R		1.334E-4		pg	7493.8	9	0.995	20	
TCMX	B	7236.4	7088.4	7046.6	6825.1	6538.3	6418.1	6649.0	AVRG	R		1.464E-4		pg	6828.8	4	0.995	20	
Decachlorobiphenyl	B	5393.1	5385.9	5050.0	4653.9	3871.9	4271.0	4447.2	AVRG	R		2.117E-4		pg	4724.7	12	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	7	20	
EPA 8081A	B	22	6	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804412857019 Run Name: Injected: 12-OCT-2004 22:33
Filename: 286_019 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	395017.25
Endrin aldehyde	A	18213.37
Endrin ketone	A	33384.88

Endrin Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	821981.08
4,4'-DDE	A	3382.53
4,4'-DDD	A	12939.43

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	291203.97
Endrin aldehyde	B	9710.27
Endrin ketone	B	12449.00

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	496075.74
4,4'-DDE	B	2274.00
4,4'-DDD	B	9632.67

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

10/18/04

10/13/04

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 10/13/04 2:21:17 PM
Data Acquisition Time : 10/12/04 10:33:44 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a019.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

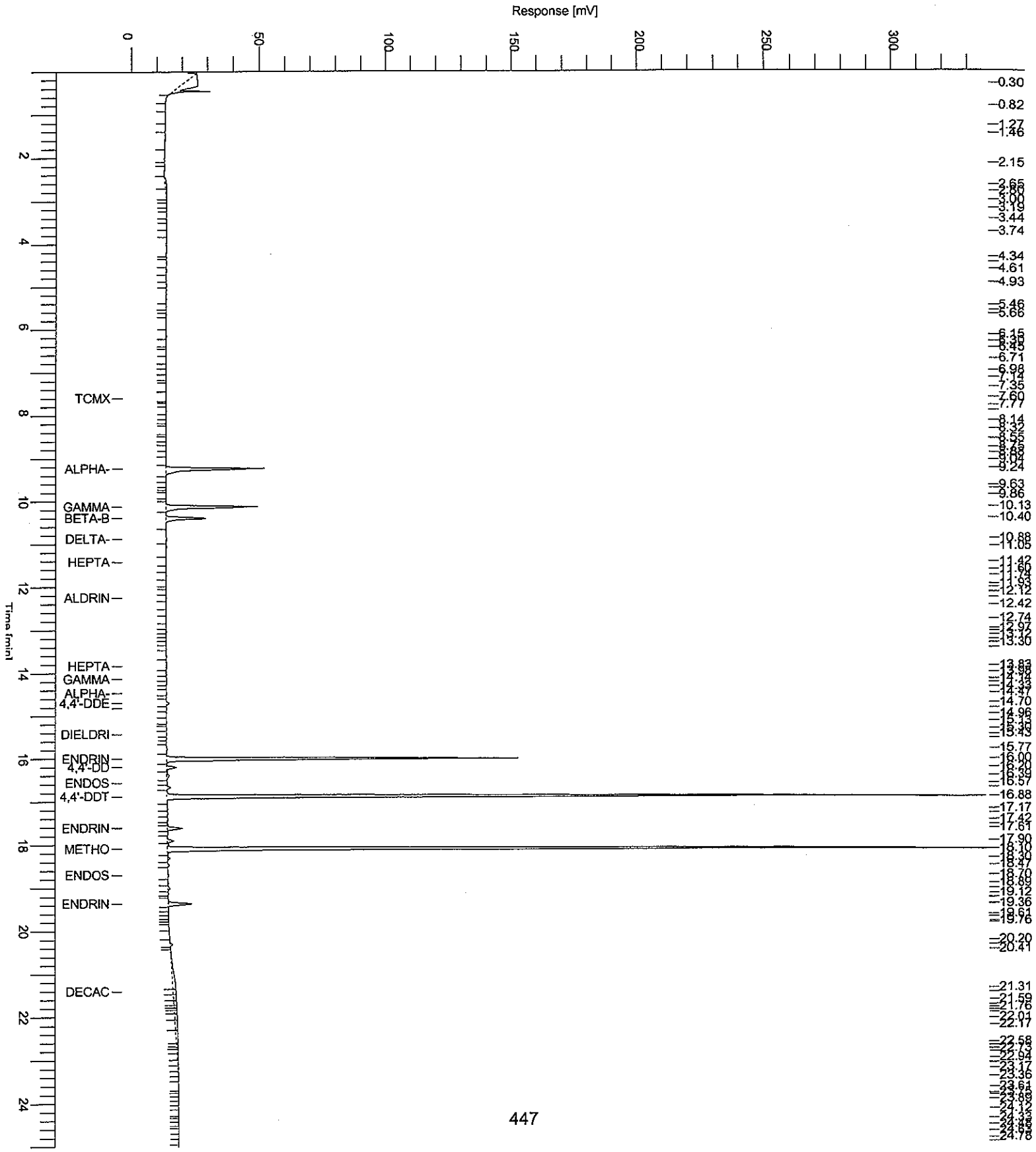
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.602	459.00	0.0499	1.000	1	0.05
alpha-BHC	9.237	134138.50	9.3926	1.000	1	9.39
gamma-BHC	10.130	126033.00	9.7133	1.000	1	9.71
beta-BHC	10.395	55493.50	9.9379	1.000	1	9.94
delta-BHC	10.880	2565.64	0.1984	1.000	1	0.20
Heptachlor	11.421	635.00	0.0562	1.000	1	0.06
Aldrin	12.253	634.95	0.0537	1.000	1	0.05
Heptachlor epoxide	13.834	874.00	0.0797	1.000	1	0.08
gamma-Chlordane	14.139	714.43	0.0644	1.000	1	0.06
alpha-Chlordane	14.467	475.00	0.0445	1.000	1	0.04
4,4'-DDE	14.698	3382.53	0.3210	1.000	1	0.32
Endosulfan I	14.819	647.78	0.0640	1.000	1	0.06
Dieldrin	15.431	397.00	0.0364	1.000	1	0.04
Endrin	16.000	395017.25	45.7327	1.000	1	45.73
4,4'-DDD	16.198	12939.43	1.4902	1.000	1	1.49
Endosulfan II	16.568	1325.62	0.1423	1.000	1	0.14
4,4'-DDT	16.882	821981.08	98.4063	1.000	1	98.41
Endrin aldehyde	17.615	18213.37	2.4400	1.000	1	2.44
Methoxychlor	18.095	901252.78	244.7771	1.000	1	244.78
Endosulfan sulfate	18.696	1833.71	0.2206	1.000	1	0.22
Endrin ketone	19.360	33384.88	3.2369	1.000	1	3.24
Decachlorobiphenyl	21.405	9205.49	1.4184	1.000	1	1.42
		2521603.92	427.8766			427.88

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\286a019.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc23\CHa\286a019.raw
ate : 10/13/04 2:21:18 PM
ethod : gc23ins Time of Injection: 10/12/04 10:33:44 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.52 mV High Point : 338.75 mV
cale Factor: 1.0 Plot Offset: -3.52 mV Plot Scale: 342.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 10/13/04 2:21:19 PM
Data Acquisition Time : 10/12/04 10:33:44 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b019.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

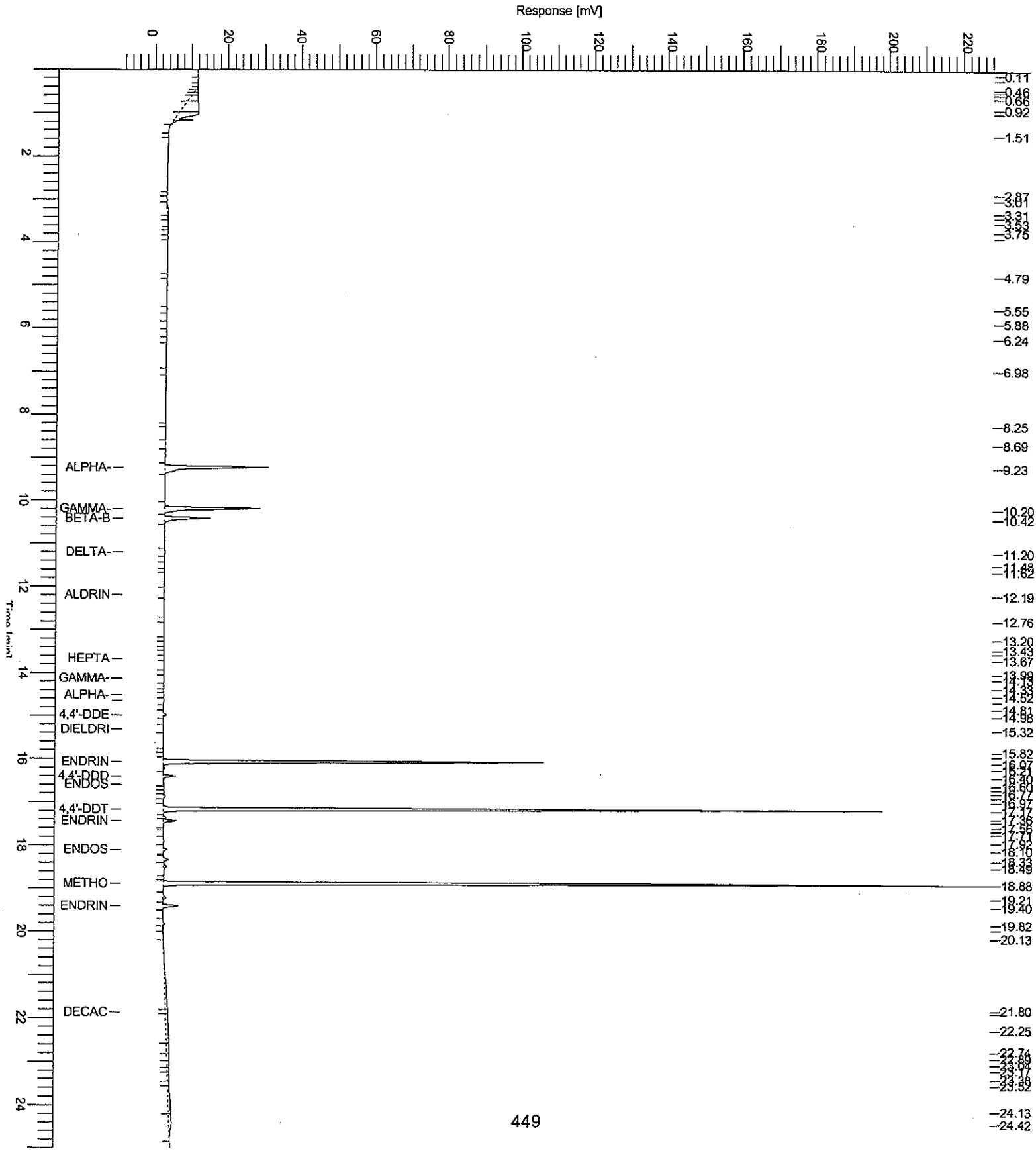
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.233	91999.50	9.0335	1.000	1	9.03
gamma-BHC	10.197	85907.00	9.3325	1.000	1	9.33
beta-BHC	10.419	38537.00	9.4705	1.000	1	9.47
delta-BHC	11.202	807.00	0.0892	1.000	1	0.09
Heptachlor	11.362	0.00	0.0000	1.000	1	0.00
Aldrin	12.188	274.00	0.0317	1.000	1	0.03
Heptachlor epoxide	13.670	222.05	0.0278	1.000	1	0.03
gamma-Chlordane	14.126	478.65	0.0583	1.000	1	0.06
alpha-Chlordane	14.517	200.00	0.0251	1.000	1	0.03
Endosulfan I	14.645	646.36	0.0860	1.000	1	0.09
4,4'-DDE	14.980	2274.00	0.2872	1.000	1	0.29
Dieldrin	15.321	224.00	0.0277	1.000	1	0.03
Endrin	16.070	291203.97	44.7461	1.000	1	44.75
4,4'-DDD	16.402	9632.67	1.4932	1.000	1	1.49
Endosulfan II	16.597	1658.00	0.2363	1.000	1	0.24
4,4'-DDT	17.169	496075.74	90.4735	1.000	1	90.47
Endrin aldehyde	17.434	9710.27	1.7357	1.000	1	1.74
Endosulfan sulfate	18.097	3200.63	0.5096	1.000	1	0.51
Methoxychlor	18.885	563254.00	222.7180	1.000	1	222.72
Endrin ketone	19.404	12449.00	1.6612	1.000	1	1.66
Decachlorobiphenyl	21.866	3624.17	0.7671	1.000	1	0.77
		1612378.02	392.8101			392.81

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\286b019.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\286b019
ate : 10/13/04 2:21:20 PM
lethod : gc23ins Time of Injection: 10/12/04 10:33:44 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.20 mV High Point : 228.17 mV
cale Factor: 1.0 Plot Offset: -8.20 mV Plot Scale: 236.4 mV



Turbochrom Method File G:\gc23\Files\8081a286.mth
Printed by : pc_pest01 on: 10/13/04 2:01:20 PM
Created by : pc_pest01 on: 10/13/04 12:33:33 PM
Edited by : pc_pest01 on: 10/13/04 2:01:01 PM
Number of Times Edited : 4
Number of Times Calibrated : 134
Description: GC23

Thur 10/14/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 7.620 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	40961.54	10076.97	----------	----------	1
2	10.0000	92118.66	20951.25	----------	----------	1
3	20.0000	178818.40	42551.16	----------	----------	1
4	40.0000	385361.81	100354.50	----------	----------	1
5	50.0000	432555.00	116778.79	----------	----------	1
6	100.0000	898971.92	236475.08	----------	----------	1
7	200.0000	1734127.52	449225.72	----------	----------	1

Average Calibration Factor = 9191.239110 (%RSD = 6.22)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 9.238 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	29439.00	7854.32	----------	----------	1
2	5.0000	67816.00	16930.39	----------	----------	1
3	10.0000	136252.00	35856.85	----------	----------	1
4	20.0000	303318.06	85848.13	----------	----------	1
5	25.0000	369677.50	100130.41	----------	----------	1
6	50.0000	701757.73	200941.62	----------	----------	1
7	100.0000	1407315.00	399632.86	----------	----------	1

Average Calibration Factor = 14281.315407 (%RSD = 4.32)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.132 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27832.17	7822.36	----------	----------	1
2	5.0000	62319.71	16678.63	----------	----------	1
3	10.0000	123555.00	34613.53	----------	----------	1
4	20.0000	273169.17	79944.88	----------	----------	1
5	25.0000	333088.93	93010.57	----------	----------	1
6	50.0000	624746.00	175207.88	----------	----------	1
7	100.0000	1261450.00	368607.61	----------	----------	1

Average Calibration Factor = 12975.280253 (%RSD = 4.95)

beta-BHC

Component Type : Single Peak Component
Retention Time : 10.396 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	13058.00	3611.42	----------	----------	1
2	5.0000	27746.00	7637.36	----------	----------	1
3	10.0000	55681.40	15652.12	----------	----------	1
4	20.0000	118993.55	34474.56	----------	----------	1
5	25.0000	142121.37	39678.87	----------	----------	1
6	50.0000	252733.03	71507.02	----------	----------	1
7	100.0000	475262.50	133857.78	----------	----------	1

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Average Calibration Factor = 5584.022581 (%RSD = 10.36)

delta-BHC
Component Type : Single Peak Component
Retention Time : 10.875 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27603.00	7908.85	----------	----------	1
2	5.0000	61545.42	16968.25	----------	----------	1
3	10.0000	123189.94	34897.27	----------	----------	1
4	20.0000	274606.36	80793.40	----------	----------	1
5	25.0000	329653.59	93546.17	----------	----------	1
6	50.0000	625145.97	189076.23	----------	----------	1
7	100.0000	1269057.91	380114.26	----------	----------	1

Average Calibration Factor = 12934.219560 (%RSD = 4.95)

Heptachlor
Component Type : Single Peak Component
Retention Time : 11.430 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23870.47	7109.53	----------	----------	1
2	5.0000	52747.81	15173.56	----------	----------	1
3	10.0000	107824.79	31290.31	----------	----------	1
4	20.0000	239916.00	71723.50	----------	----------	1
5	25.0000	290449.62	83850.57	----------	----------	1
6	50.0000	551270.36	160663.48	----------	----------	1
7	100.0000	1114016.18	332924.38	----------	----------	1

Average Calibration Factor = 11292.375504 (%RSD = 5.01)

Aldrin
Component Type : Single Peak Component
Retention Time : 12.227 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	25910.65	7747.75	----------	----------	1
2	5.0000	56583.31	16598.82	----------	----------	1
3	10.0000	112812.00	33486.97	----------	----------	1
4	20.0000	249713.46	74207.99	----------	----------	1
5	25.0000	300056.74	87856.50	----------	----------	1
6	50.0000	566975.45	172174.95	----------	----------	1
7	100.0000	1134323.50	345071.74	----------	----------	1

Average Calibration Factor = 11817.695954 (%RSD = 5.75)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 13.824 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24664.63	7616.53	----------	----------	1
2	5.0000	52819.00	16414.77	----------	----------	1
3	10.0000	106103.29	32321.45	----------	----------	1
4	20.0000	232488.65	71494.27	----------	----------	1
5	25.0000	274781.70	83462.01	----------	----------	1
6	50.0000	518916.29	165075.83	----------	----------	1
7	100.0000	1029165.50	330274.81	----------	----------	1

Average Calibration Factor = 10970.303773 (%RSD = 6.85)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 14.142 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24850.36	7710.09	----------	----------	1
2	5.0000	53179.00	16624.56	----------	----------	1
3	10.0000	105292.15	32601.98	----------	----------	1
4	20.0000	233743.00	71952.72	----------	----------	1
5	25.0000	277184.22	85022.71	----------	----------	1
6	50.0000	531972.71	170757.65	----------	----------	1
7	100.0000	1060679.00	342445.98	----------	----------	1

Average Calibration Factor = 11087.279330 (%RSD = 6.48)

alpha-Chlordane
Component Type : Single Peak Component
Retention Time : 14.479 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23850.14	7645.76	----------	----------	1
2	5.0000	51081.00	16390.54	----------	----------	1
3	10.0000	102043.85	32297.68	----------	----------	1
4	20.0000	226143.50	70904.96	----------	----------	1
5	25.0000	267716.39	84178.92	----------	----------	1
6	50.0000	508245.40	158912.96	----------	----------	1
7	100.0000	1018507.00	325446.45	----------	----------	1

Average Calibration Factor = 10673.066416 (%RSD = 6.51)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 14.697 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	44598.96	14887.43	----------	----------	1
2	10.0000	97244.77	32161.79	----------	----------	1
3	20.0000	196728.76	64788.04	----------	----------	1
4	40.0000	455384.55	151022.14	----------	----------	1
5	50.0000	548074.76	182699.09	----------	----------	1
6	100.0000	1101866.45	359747.84	----------	----------	1
7	200.0000	1936338.77	622485.92	----------	----------	1

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Average Calibration Factor = 10536.731834 (%RSD = 7.13)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 14.820 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	22648.04	6959.99	----------	----------	1
2	5.0000	48851.23	14817.00	----------	----------	1
3	10.0000	98111.24	30488.47	----------	----------	1
4	20.0000	215060.28	67208.02	----------	----------	1
5	25.0000	255601.23	79365.14	----------	----------	1
6	50.0000	479300.60	154088.95	----------	----------	1
7	100.0000	942834.88	307293.19	----------	----------	1

Average Calibration Factor = 10128.116089 (%RSD = 6.80)

Dieldrin
Component Type : Single Peak Component
Retention Time : 15.429 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	47362.34	15200.84	----------	----------	1
2	10.0000	101968.19	32617.50	----------	----------	1
3	20.0000	207133.33	65202.46	----------	----------	1
4	40.0000	470252.28	147741.38	----------	----------	1
5	50.0000	560851.84	179060.13	----------	----------	1
6	100.0000	1119079.57	356824.90	----------	----------	1
7	200.0000	1946871.61	595311.56	----------	----------	1

Average Calibration Factor = 10898.938175 (%RSD = 7.45)

Endrin
Component Type : Single Peak Component
Retention Time : 16.002 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	38395.03	12020.13	----------	----------	1
2	10.0000	80510.06	24873.82	----------	----------	1
3	20.0000	160021.00	50671.20	----------	----------	1
4	40.0000	381661.50	121449.40	----------	----------	1
5	50.0000	448766.50	141624.41	----------	----------	1
6	100.0000	852503.00	278344.52	----------	----------	1
7	200.0000	1553977.50	498904.22	----------	----------	1

Average Calibration Factor = 8637.514024 (%RSD = 8.68)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 16.196 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	38032.78	12711.49	----------	----------	1
2	10.0000	81089.91	27242.21	----------	----------	1
3	20.0000	163395.00	53700.90	----------	----------	1
4	40.0000	370664.00	122701.75	----------	----------	1
5	50.0000	441505.50	147671.36	----------	----------	1
6	100.0000	888032.00	291666.64	----------	----------	1
7	200.0000	1603480.00	518170.23	----------	----------	1

Average Calibration Factor = 8683.052195 (%RSD = 6.84)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 16.568 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	41821.50	13210.38	----------	----------	1
2	10.0000	87981.12	27547.08	----------	----------	1
3	20.0000	177837.59	56323.29	----------	----------	1
4	40.0000	397734.97	127231.26	----------	----------	1
5	50.0000	466196.97	148935.02	----------	----------	1
6	100.0000	941252.22	308816.05	----------	----------	1
7	200.0000	1674626.76	537256.93	----------	----------	1

Average Calibration Factor = 9314.048010 (%RSD = 7.64)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 16.883 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	35253.50	11397.54	----------	----------	1
2	10.0000	74031.00	24423.81	----------	----------	1
3	20.0000	154790.61	50945.49	----------	----------	1
4	40.0000	360415.57	121207.15	----------	----------	1
5	50.0000	429553.67	144483.80	----------	----------	1
6	100.0000	886322.66	300725.83	----------	----------	1
7	200.0000	1609962.85	543728.69	----------	----------	1

Average Calibration Factor = 8352.929853 (%RSD = 7.46)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 17.617 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	35061.58	11083.22	----------	----------	1
2	10.0000	72211.53	22843.57	----------	----------	1
3	20.0000	144759.05	46133.52	----------	----------	1
4	40.0000	308138.49	98889.20	----------	----------	1
5	50.0000	361545.70	115422.08	----------	----------	1
6	100.0000	725365.25	233389.29	----------	----------	1
7	200.0000	1367747.96	441075.01	----------	----------	1

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Average Calibration Factor = 7464.467112 (%RSD = 8.39)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 18.096 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	83404.05	28076.79	----------	----------	1
2	50.0000	169648.50	56150.30	----------	----------	1
3	100.0000	350573.91	116117.64	----------	----------	1
4	200.0000	873576.60	295886.09	----------	----------	1
5	250.0000	1016259.76	342232.60	----------	----------	1
6	500.0000	1759274.56	557824.79	----------	----------	1
7	1000.0000	2753140.25	844566.07	----------	----------	1

Average Calibration Factor = 3681.931871 (%RSD = 15.12)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 18.696 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	38455.16	12440.88	----------	----------	1
2	10.0000	78475.75	24940.08	----------	----------	1
3	20.0000	158300.50	49897.39	----------	----------	1
4	40.0000	351369.23	110104.44	----------	----------	1
5	50.0000	411593.49	130232.42	----------	----------	1
6	100.0000	816791.37	256035.01	----------	----------	1
7	200.0000	1527607.27	479826.72	----------	----------	1

Average Calibration Factor = 8314.062771 (%RSD = 8.18)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 19.369 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	47989.37	14651.77	----------	----------	1
2	10.0000	97646.59	29783.49	----------	----------	1
3	20.0000	197848.81	61012.11	----------	----------	1
4	40.0000	436380.69	137047.46	----------	----------	1
5	50.0000	515624.35	162374.10	----------	----------	1
6	100.0000	1034421.46	334202.57	----------	----------	1
7	200.0000	1795325.00	564664.85	----------	----------	1

Average Calibration Factor = 10313.897882 (%RSD = 9.25)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.400 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	60914.12	23170.54	----------	----------	1
3	20.0000	123557.95	46905.44	----------	----------	1
4	40.0000	272056.34	103921.26	----------	----------	1
5	50.0000	323955.62	123175.95	----------	----------	1
6	100.0000	639289.55	245998.19	----------	----------	1
7	200.0000	1191020.85	459376.75	----------	----------	1
1	4.0000	30133.31	11479.72	----------	----------	1

Average Calibration Factor = 6490.165167 (%RSD = 8.29)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40961.54	10076.97	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92118.66	20951.25	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
178818.40	42551.16	20.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
385361.81	100354.50	40.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
432555.00	116778.79	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
898971.92	236475.08	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1734127.52	449225.72	200.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29439.00	7854.32	2.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67816.00	16930.39	5.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
136252.00	35856.85	10.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
303318.06	85848.13	20.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
369677.50	100130.41	25.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
701757.73	200941.62	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1407315.00	399632.86	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : gamma-BHC
Level : 1

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27832.17	7822.36	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62319.71	16678.63	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123555.00	34613.53	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
273169.17	79944.88	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
333088.93	93010.57	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
624746.00	175207.88	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1261450.00	368607.61	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : beta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13058.00	3611.42	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27746.00	7637.36	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55681.40	15652.12	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118993.55	34474.56	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
142121.37	39678.87	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
252733.03	71507.02	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
475262.50	133857.78	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : delta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27603.00	7908.85	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61545.42	16968.25	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123189.94	34897.27	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
274606.36	80793.40	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
329653.59	93546.17	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
625145.97	189076.23	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1269057.91	380114.26	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Heptachlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23870.47	7109.53	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52747.81	15173.56	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107824.79	31290.31	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
239916.00	71723.50	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290449.62	83850.57	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
551270.36	160663.48	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1114016.18	332924.38	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Aldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25910.65	7747.75	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56583.31	16598.82	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112812.00	33486.97	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
249713.46	74207.99	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
300056.74	87856.50	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
566975.45	172174.95	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1134323.50	345071.74	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Heptachlor epoxide

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24664.63	7616.53	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52819.00	16414.77	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106103.29	32321.45	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
232488.65	71494.27	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
274781.70	83462.01	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
518916.29	165075.83	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1029165.50	330274.81	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24850.36	7710.09	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53179.00	16624.56	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
105292.15	32601.98	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
233743.00	71952.72	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
277184.22	85022.71	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
531972.71	170757.65	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1060679.00	342445.98	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23850.14	7645.76	2.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51081.00	16390.54	5.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102043.85	32297.68	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226143.50	70904.96	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
267716.39	84178.92	25.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
508245.40	158912.96	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1018507.00	325446.45	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44598.96	14887.43	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
97244.77	32161.79	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
196728.76	64788.04	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
455384.55	151022.14	40.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
548074.76	182699.09	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1101866.45	359747.84	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1936338.77	622485.92	200.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Endosulfan I

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22648.04	6959.99	2.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48851.23	14817.00	5.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98111.24	30488.47	10.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
215060.28	67208.02	20.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255601.23	79365.14	25.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
479300.60	154088.95	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
942834.88	307293.19	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Dieldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47362.34	15200.84	4.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101968.19	32617.50	10.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
207133.33	65202.46	20.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
470252.28	147741.38	40.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
560851.84	179060.13	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1119079.57	356824.90	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1946871.61	595311.56	200.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38395.03	12020.13	4.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80510.06	24873.82	10.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160021.00	50671.20	20.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
381661.50	121449.40	40.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
448766.50	141624.41	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
852503.00	278344.52	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1553977.50	498904.22	200.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : 4,4'-DDD
Level : 1

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38032.78	12711.49	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81089.91	27242.21	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
163395.00	53700.90	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
370664.00	122701.75	40.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
441505.50	147671.36	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
888032.00	291666.64	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1603480.00	518170.23	200.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Endosulfan II
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41821.50	13210.38	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
87981.12	27547.08	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
177837.59	56323.29	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
397734.97	127231.26	40.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
466196.97	148935.02	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
941252.22	308816.05	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1674626.76	537256.93	200.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : 4,4'-DDT

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35253.50	11397.54	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74031.00	24423.81	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154790.61	50945.49	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
360415.57	121207.15	40.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
429553.67	144483.80	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
886322.66	300725.83	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1609962.85	543728.69	200.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Endrin aldehyde

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35061.58	11083.22	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72211.53	22843.57	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
144759.05	46133.52	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
308138.49	98889.20	40.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
361545.70	115422.08	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
725365.25	233389.29	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1367747.96	441075.01	200.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83404.05	28076.79	20.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
169648.50	56150.30	50.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
350573.91	116117.64	100.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
873576.60	295886.09	200.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1016259.76	342232.60	250.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1759274.56	557824.79	500.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2753140.25	844566.07	1000.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38455.16	12440.88	4.0000	---------	---------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
78475.75	24940.08	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
158300.50	49897.39	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
351369.23	110104.44	40.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
411593.49	130232.42	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
816791.37	256035.01	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1527607.27	479826.72	200.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Endrin ketone
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47989.37	14651.77	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
97646.59	29783.49	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
197848.81	61012.11	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
436380.69	137047.46	40.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
515624.35	162374.10	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1034421.46	334202.57	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

10/13/04 2:01:20 PM Method: G:\gc23\Files\8081a286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1795325.00	564664.85	200.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Component : Decachlorobiphenyl
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60914.12	23170.54	10.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
123557.95	46905.44	20.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
272056.34	103921.26	40.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
323955.62	123175.95	50.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
639289.55	245998.19	100.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1191020.85	459376.75	200.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a027p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30133.31	11479.72	4.0000	----------	----------	10/13/04	2:00:45 PM	G:\gc23\CHA\286a021p.rst

Turbochrom Method File G:\gc23\Files\8081b286.mth
Printed by : pc_pest01 on: 10/13/04 2:01:44 PM
Created by : analyst on: 10/12/04 5:43:03 PM
Edited by : pc_pest01 on: 10/13/04 1:59:54 PM
Number of Times Edited : 4
Number of Times Calibrated : 124
Description: GC 23

Mas 10/14/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 7.546 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	28945.50	7314.92	----------	----------	1
2	10.0000	70883.50	17119.38	----------	----------	1
3	20.0000	140931.00	35609.46	----------	----------	1
4	40.0000	273002.00	62603.75	----------	----------	1
5	50.0000	326914.00	78381.94	----------	----------	1
6	100.0000	641805.00	156559.04	----------	----------	1
7	200.0000	1329799.00	336615.65	----------	----------	1

Average Calibration Factor = 6828.807143 (%RSD = 4.50)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 9.235 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	20161.00	5758.38	----------	----------	1
2	5.0000	50739.00	14165.53	----------	----------	1
3	10.0000	103765.00	30301.17	----------	----------	1
4	20.0000	206616.00	56347.93	----------	----------	1
5	25.0000	247278.50	70046.25	----------	----------	1
6	50.0000	494701.00	142064.83	----------	----------	1
7	100.0000	1056899.61	313609.01	----------	----------	1

Average Calibration Factor = 10184.250874 (%RSD = 2.50)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.199 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	18537.00	5573.99	----------	----------	1
2	5.0000	46405.00	13636.37	----------	----------	1
3	10.0000	93942.50	28201.29	----------	----------	1
4	20.0000	187759.00	53841.74	----------	----------	1
5	25.0000	221038.00	64694.42	----------	----------	1
6	50.0000	442879.29	128258.54	----------	----------	1
7	100.0000	940532.53	285680.90	----------	----------	1

Average Calibration Factor = 9205.161605 (%RSD = 2.71)

beta-BHC

Component Type : Single Peak Component
Retention Time : 10.421 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	8914.00	2599.33	----------	----------	1
2	5.0000	21488.00	6243.78	----------	----------	1
3	10.0000	42504.19	12698.21	----------	----------	1
4	20.0000	83168.02	23878.08	----------	----------	1
5	25.0000	95997.55	28137.17	----------	----------	1
6	50.0000	186734.79	56298.34	----------	----------	1
7	100.0000	374601.00	114488.88	----------	----------	1

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Average Calibration Factor = 4069.146817 (%RSD = 7.18)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.201 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	17977.00	5686.75	----------	----------	1
2	5.0000	45355.50	14157.73	----------	----------	1
3	10.0000	92122.00	29446.07	----------	----------	1
4	20.0000	185667.00	58065.10	----------	----------	1
5	25.0000	215459.00	67781.50	----------	----------	1
6	50.0000	437856.00	137953.00	----------	----------	1
7	100.0000	941168.00	306474.01	----------	----------	1

Average Calibration Factor = 9048.901429 (%RSD = 3.15)

Heptachlor
Component Type : Single Peak Component
Retention Time : 11.362 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	11912.00	3672.60	----------	----------	1
2	5.0000	31101.00	9268.95	----------	----------	1
3	10.0000	64592.99	19289.77	----------	----------	1
4	20.0000	130431.00	38228.10	----------	----------	1
5	25.0000	151495.00	44569.74	----------	----------	1
6	50.0000	314305.96	92293.97	----------	----------	1
7	100.0000	667371.00	199132.06	----------	----------	1

Average Calibration Factor = 6310.953999 (%RSD = 4.07)

Aldrin
Component Type : Single Peak Component
Retention Time : 12.194 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	17531.11	5492.99	----------	----------	1
2	5.0000	43767.00	13623.47	----------	----------	1
3	10.0000	88554.95	27206.52	----------	----------	1
4	20.0000	178727.00	54419.55	----------	----------	1
5	25.0000	204474.33	62251.41	----------	----------	1
6	50.0000	413729.38	128385.68	----------	----------	1
7	100.0000	873600.97	273625.81	----------	----------	1

Average Calibration Factor = 8642.909793 (%RSD = 3.40)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 13.668 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	16495.00	5406.95	----------	----------	1
2	5.0000	41301.58	13495.13	----------	----------	1
3	10.0000	82731.83	27536.89	----------	----------	1
4	20.0000	167105.49	55220.65	----------	----------	1
5	25.0000	186853.56	61326.96	----------	----------	1
6	50.0000	376329.48	124629.20	----------	----------	1
7	100.0000	780442.90	261601.20	----------	----------	1

Average Calibration Factor = 7991.633658 (%RSD = 4.76)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 14.143 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	16773.00	5556.33	----------	----------	1
2	5.0000	41974.50	13804.45	----------	----------	1
3	10.0000	83781.43	26932.29	----------	----------	1
4	20.0000	171201.12	55090.67	----------	----------	1
5	25.0000	190003.06	61400.80	----------	----------	1
6	50.0000	390940.35	129947.50	----------	----------	1
7	100.0000	830187.13	276071.82	----------	----------	1

Average Calibration Factor = 8205.771363 (%RSD = 4.31)

alpha-Chlordane
Component Type : Single Peak Component
Retention Time : 14.516 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	16524.00	5590.62	----------	----------	1
2	5.0000	41123.39	13908.31	----------	----------	1
3	10.0000	81722.45	27661.95	----------	----------	1
4	20.0000	166501.94	55947.33	----------	----------	1
5	25.0000	184233.03	62006.80	----------	----------	1
6	50.0000	376752.92	124195.13	----------	----------	1
7	100.0000	792607.07	268830.75	----------	----------	1

Average Calibration Factor = 7973.495769 (%RSD = 4.77)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 14.641 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	15450.50	5041.58	----------	----------	1
2	5.0000	38930.61	12496.20	----------	----------	1
3	10.0000	77620.71	24635.82	----------	----------	1
4	20.0000	157353.32	49717.27	----------	----------	1
5	25.0000	175125.20	55084.55	----------	----------	1
6	50.0000	354358.48	116529.85	----------	----------	1
7	100.0000	737083.53	239849.55	----------	----------	1

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Average Calibration Factor = 7514.874611 (%RSD = 4.76)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 14.980 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	31489.00	11004.13	----------	----------	1
2	10.0000	80635.92	28171.39	----------	----------	1
3	20.0000	162540.00	56089.43	----------	----------	1
4	40.0000	335239.00	116395.97	----------	----------	1
5	50.0000	370299.33	128358.49	----------	----------	1
6	100.0000	794645.00	265274.96	----------	----------	1
7	200.0000	1527135.50	506829.72	----------	----------	1

Average Calibration Factor = 7918.847349 (%RSD = 4.07)

Dieldrin
Component Type : Single Peak Component
Retention Time : 15.327 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	33158.00	11039.17	----------	----------	1
2	10.0000	83169.00	27718.94	----------	----------	1
3	20.0000	167646.00	54863.36	----------	----------	1
4	40.0000	342643.90	111323.84	----------	----------	1
5	50.0000	378225.00	123605.81	----------	----------	1
6	100.0000	795066.93	263197.67	----------	----------	1
7	200.0000	1519485.88	484090.97	----------	----------	1

Average Calibration Factor = 8095.342306 (%RSD = 4.89)

Endrin
Component Type : Single Peak Component
Retention Time : 16.074 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	26605.23	8653.83	----------	----------	1
2	10.0000	67363.66	21923.06	----------	----------	1
3	20.0000	135136.42	43358.80	----------	----------	1
4	40.0000	278352.32	88920.52	----------	----------	1
5	50.0000	305357.65	96904.56	----------	----------	1
6	100.0000	611929.65	202766.85	----------	----------	1
7	200.0000	1245127.23	402915.14	----------	----------	1

Average Calibration Factor = 6507.912559 (%RSD = 5.36)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 16.402 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	26382.50	9063.61	----------	----------	1
2	10.0000	66898.37	22933.60	----------	----------	1
3	20.0000	132852.41	46231.81	----------	----------	1
4	40.0000	273328.81	95476.74	----------	----------	1
5	50.0000	294595.78	102626.28	----------	----------	1
6	100.0000	625093.68	221386.26	----------	----------	1
7	200.0000	1250685.18	437568.67	----------	----------	1

Average Calibration Factor = 6451.082866 (%RSD = 5.11)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 16.596 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	29620.00	9949.50	----------	----------	1
2	10.0000	74235.00	24985.31	----------	----------	1
3	20.0000	145177.00	48117.52	----------	----------	1
4	40.0000	295156.00	97532.63	----------	----------	1
5	50.0000	319921.26	106238.66	----------	----------	1
6	100.0000	666471.53	215599.49	----------	----------	1
7	200.0000	1317038.84	422018.94	----------	----------	1

Average Calibration Factor = 7016.369237 (%RSD = 6.37)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.170 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	20796.50	6882.02	----------	----------	1
2	10.0000	55227.00	18289.51	----------	----------	1
3	20.0000	111896.00	37822.06	----------	----------	1
4	40.0000	232124.50	78844.90	----------	----------	1
5	50.0000	249368.00	84885.74	----------	----------	1
6	100.0000	545397.50	190442.91	----------	----------	1
7	200.0000	1164137.00	403134.31	----------	----------	1

Average Calibration Factor = 5483.108214 (%RSD = 5.56)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 17.434 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	24630.31	8077.17	----------	----------	1
2	10.0000	60900.18	20034.43	----------	----------	1
3	20.0000	116110.15	38759.51	----------	----------	1
4	40.0000	227340.89	76096.30	----------	----------	1
5	50.0000	248205.85	82828.90	----------	----------	1
6	100.0000	515637.59	170558.69	----------	----------	1
7	200.0000	1060810.03	354810.81	----------	----------	1

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Average Calibration Factor = 5594.452487 (%RSD = 8.28)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 18.111 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	26902.02	8930.88	----------	----------	1
2	10.0000	66570.60	22161.56	----------	----------	1
3	20.0000	127970.95	42012.05	----------	----------	1
4	40.0000	260840.20	84852.79	----------	----------	1
5	50.0000	281256.55	91930.56	----------	----------	1
6	100.0000	589802.74	191750.17	----------	----------	1
7	200.0000	1228655.58	394215.98	----------	----------	1

Average Calibration Factor = 6281.222070 (%RSD = 6.52)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 18.887 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	53651.88	17857.04	----------	----------	1
2	50.0000	137887.68	45695.12	----------	----------	1
3	100.0000	270582.50	92857.35	----------	----------	1
4	200.0000	540679.86	184316.34	----------	----------	1
5	250.0000	569833.90	194458.96	----------	----------	1
6	500.0000	1206896.48	416662.81	----------	----------	1
7	1000.0000	2160302.77	719963.36	----------	----------	1

Average Calibration Factor = 2529.000437 (%RSD = 9.54)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 19.409 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	32761.98	10613.80	----------	----------	1
2	10.0000	81765.00	26376.32	----------	----------	1
3	20.0000	157046.95	49728.16	----------	----------	1
4	40.0000	309885.00	98172.33	----------	----------	1
5	50.0000	329430.70	104599.35	----------	----------	1
6	100.0000	701515.50	230383.74	----------	----------	1
7	200.0000	1377212.00	439392.56	----------	----------	1

Average Calibration Factor = 7493.756570 (%RSD = 8.72)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.867 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	53859.07	20515.00	----------	----------	1
3	20.0000	101000.65	38477.95	----------	----------	1
4	40.0000	186154.22	70972.90	----------	----------	1
5	50.0000	193596.61	73673.77	----------	----------	1
6	100.0000	427102.82	162098.93	----------	----------	1
7	200.0000	889439.87	339615.42	----------	----------	1
1	4.0000	21572.37	8304.29	----------	----------	1

Average Calibration Factor = 4724.720976 (%RSD = 12.23)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28945.50	7314.92	4.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70883.50	17119.38	10.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140931.00	35609.46	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
273002.00	62603.75	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
326914.00	78381.94	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
641805.00	156559.04	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1329799.00	336615.65	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20161.00	5758.38	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50739.00	14165.53	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103765.00	30301.17	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
206616.00	56347.93	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
247278.50	70046.25	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
494701.00	142064.83	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1056899.61	313609.01	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : gamma-BHC
Level : 1

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18537.00	5573.99	2.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46405.00	13636.37	5.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93942.50	28201.29	10.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
187759.00	53841.74	20.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
221038.00	64694.42	25.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
442879.29	128258.54	50.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
940532.53	285680.90	100.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8914.00	2599.33	2.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21488.00	6243.78	5.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42504.19	12698.21	10.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83168.02	23878.08	20.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95997.55	28137.17	25.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
186734.79	56298.34	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
374601.00	114488.88	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : delta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17977.00	5686.75	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45355.50	14157.73	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92122.00	29446.07	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185667.00	58065.10	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
215459.00	67781.50	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
437856.00	137953.00	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
941168.00	306474.01	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Heptachlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11912.00	3672.60	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31101.00	9268.95	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64592.99	19289.77	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
130431.00	38228.10	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
151495.00	44569.74	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314305.96	92293.97	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
667371.00	199132.06	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Aldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17531.11	5492.99	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43767.00	13623.47	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
88554.95	27206.52	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
178727.00	54419.55	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
204474.33	62251.41	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
413729.38	128385.68	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
873600.97	273625.81	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Heptachlor epoxide

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16495.00	5406.95	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41301.58	13495.13	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82731.83	27536.89	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
167105.49	55220.65	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
186853.56	61326.96	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
376329.48	124629.20	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
780442.90	261601.20	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : gamma-Chlordane

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16773.00	5556.33	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41974.50	13804.45	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83781.43	26932.29	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
171201.12	55090.67	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
190003.06	61400.80	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
390940.35	129947.50	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
830187.13	276071.82	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16524.00	5590.62	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41123.39	13908.31	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81722.45	27661.95	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
166501.94	55947.33	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184233.03	62006.80	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
376752.92	124195.13	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
792607.07	268830.75	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Endosulfan I
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15450.50	5041.58	2.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38930.61	12496.20	5.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77620.71	24635.82	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157353.32	49717.27	20.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175125.20	55084.55	25.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
354358.48	116529.85	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
737083.53	239849.55	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31489.00	11004.13	4.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80635.92	28171.39	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
162540.00	56089.43	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
335239.00	116395.97	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
370299.33	128358.49	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
794645.00	265274.96	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1527135.50	506829.72	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33158.00	11039.17	4.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83169.00	27718.94	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
167646.00	54863.36	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
342643.90	111323.84	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
378225.00	123605.81	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
795066.93	263197.67	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1519485.88	484090.97	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26605.23	8653.83	4.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67363.66	21923.06	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
135136.42	43358.80	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
278352.32	88920.52	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
305357.65	96904.56	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
611929.65	202766.85	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1245127.23	402915.14	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : 4,4'-DDD
Level : 1

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26382.50	9063.61	4.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66898.37	22933.60	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132852.41	46231.81	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
273328.81	95476.74	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
294595.78	102626.28	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
625093.68	221386.26	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1250685.18	437568.67	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29620.00	9949.50	4.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74235.00	24985.31	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
145177.00	48117.52	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
295156.00	97532.63	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
319921.26	106238.66	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
666471.53	215599.49	100.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1317038.84	422018.94	200.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : 4,4'-DDT

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20796.50	6882.02	4.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55227.00	18289.51	10.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
111896.00	37822.06	20.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
232124.50	78844.90	40.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
249368.00	84885.74	50.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
545397.50	190442.91	100.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1164137.00	403134.31	200.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Endrin aldehyde

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24630.31	8077.17	4.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60900.18	20034.43	10.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116110.15	38759.51	20.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
227340.89	76096.30	40.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
248205.85	82828.90	50.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
515637.59	170558.69	100.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1060810.03	354810.81	200.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Endosulfan sulfate

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26902.02	8930.88	4.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66570.60	22161.56	10.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127970.95	42012.05	20.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
260840.20	84852.79	40.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
281256.55	91930.56	50.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
589802.74	191750.17	100.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1228655.58	394215.98	200.0000	---------	---------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Methoxychlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53651.88	17857.04	20.0000	---------	---------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137887.68	45695.12	50.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
270582.50	92857.35	100.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
540679.86	184316.34	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
569833.90	194458.96	250.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1206896.48	416662.81	500.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2160302.77	719963.36	1000.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Endrin ketone

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32761.98	10613.80	4.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81765.00	26376.32	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157046.95	49728.16	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
309885.00	98172.33	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
329430.70	104599.35	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
701515.50	230383.74	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

10/13/04 2:01:44 PM Method: G:\gc23\Files\8081b286.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1377212.00	439392.56	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Component : Decachlorobiphenyl
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53859.07	20515.00	10.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b022p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101000.65	38477.95	20.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b023p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
186154.22	70972.90	40.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b024p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
193596.61	73673.77	50.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b025p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
427102.82	162098.93	100.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b026p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
889439.87	339615.42	200.0000	----------	----------	10/13/04	1:59:22 PM	G:\gc23\CHB\286b027p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21572.37	8304.29	4.0000	----------	----------	10/13/04	1:59:21 PM	G:\gc23\CHB\286b021p.rst

Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 10/13/04 2:03:25 PM
Data Acquisition Time : 10/12/04 10:03:31 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a018.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.620	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.241	594.50	0.0416	1.000	1	0.04
gamma-BHC	10.137	1042.50	0.0803	1.000	1	0.08
beta-BHC	10.409	1388.00	0.2486	1.000	1	0.25
delta-BHC	10.885	2745.90	0.2123	1.000	1	0.21
Heptachlor	11.437	682.00	0.0604	1.000	1	0.06
Aldrin	12.244	695.92	0.0589	1.000	1	0.06
Heptachlor epoxide	13.830	867.22	0.0791	1.000	1	0.08
gamma-Chlordane	14.150	1071.53	0.0966	1.000	1	0.10
alpha-Chlordane	14.481	740.81	0.0694	1.000	1	0.07
4,4'-DDE	14.699	763.75	0.0725	1.000	1	0.07
Endosulfan I	14.826	1140.00	0.1126	1.000	1	0.11
Dieldrin	15.430	958.00	0.0879	1.000	1	0.09
Endrin	16.012	994.30	0.1151	1.000	1	0.12
4,4'-DDD	16.200	1571.98	0.1810	1.000	1	0.18
Endosulfan II	16.571	2588.95	0.2780	1.000	1	0.28
4,4'-DDT	16.883	0.00	0.0000	1.000	1	0.00
Endrin aldehyde	17.619	2628.11	0.3521	1.000	1	0.35
Methoxychlor	18.100	903.17	0.2453	1.000	1	0.25
Endosulfan sulfate	18.700	2439.19	0.2934	1.000	1	0.29
Endrin ketone	19.372	2629.10	0.2549	1.000	1	0.25
Decachlorobiphenyl	21.396	6957.51	1.0720	1.000	1	1.07
		33402.42	4.0120			4.01

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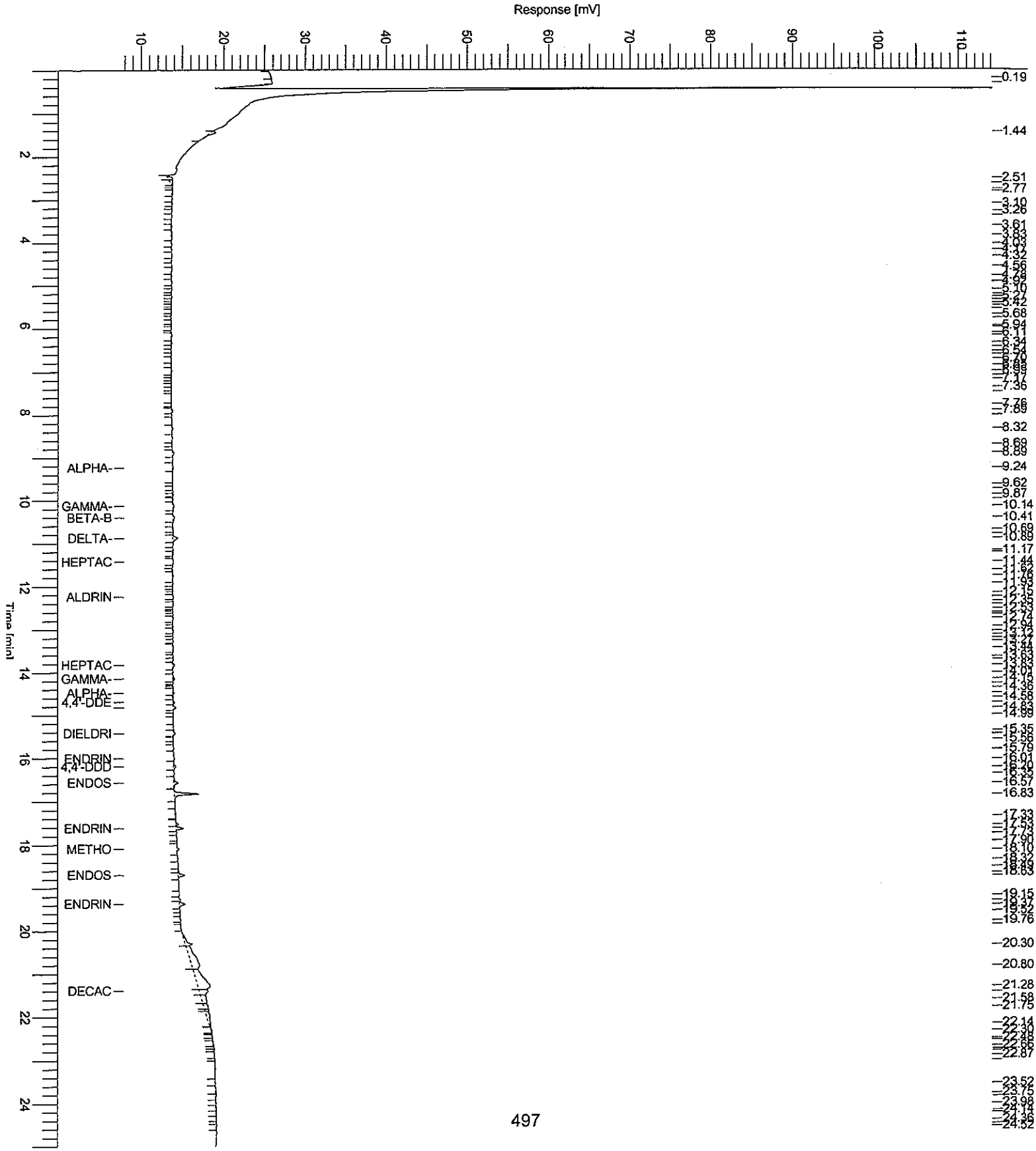
Report stored in ASCII file: G:\gc23\CHA\286a018.TX0

GC23 Rtx-CLPesticides

ample Name : hex Sample #: Page 1 of 1
ileName : G:\gc23\CHa\286a018.raw
ate : 10/13/04 2:03:28 PM
lethod : gc23ins Time of Injection: 10/12/04 10:03:31 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 7.98 mV High Point : 114.15 mV
cale Factor: 1.0 Plot Offset: 7.98 mV Plot Scale: 106.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 10/13/04 2:03:29 PM
Data Acquisition Time : 10/12/04 10:03:31 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b018.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

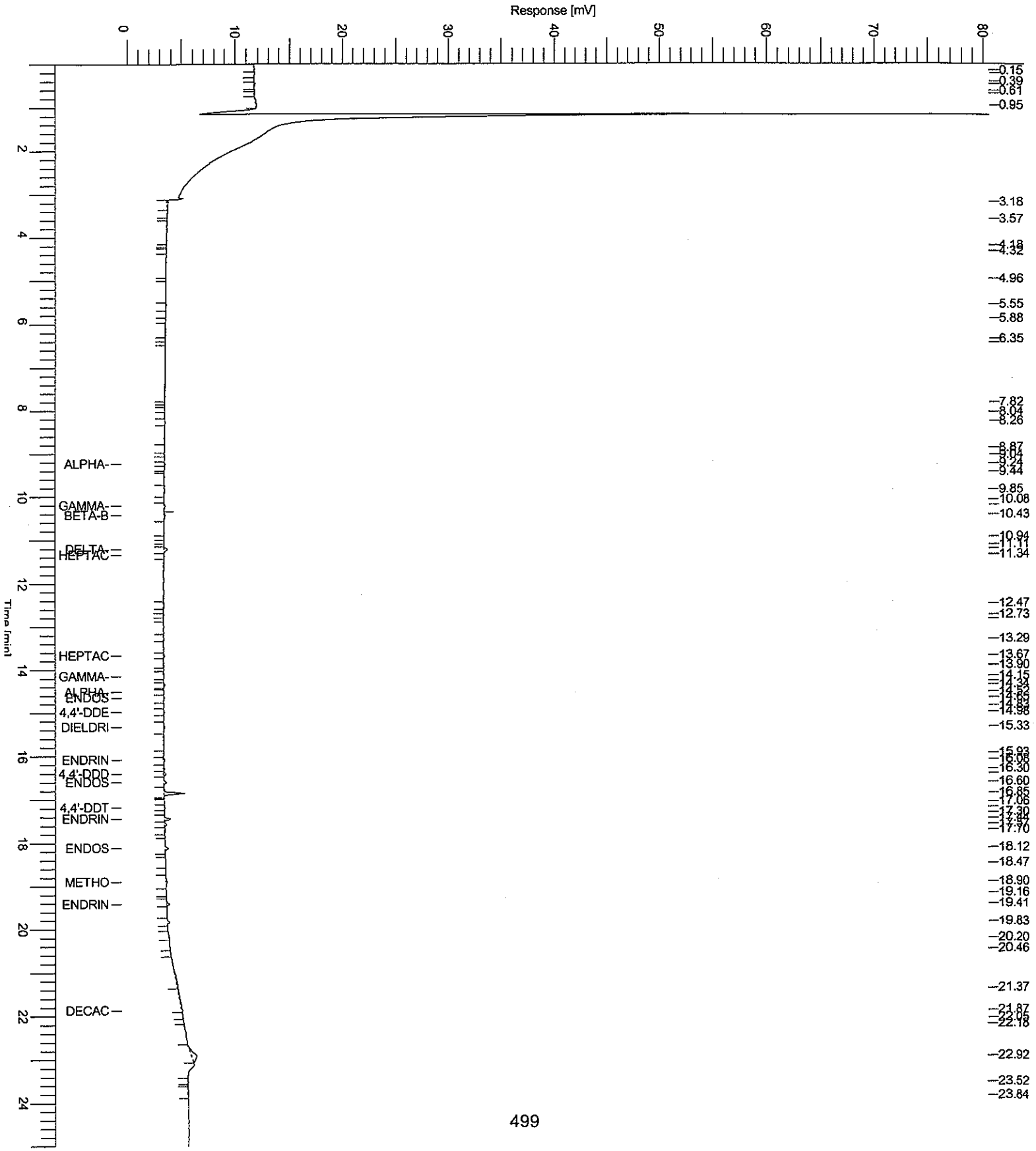
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.238	199.00	0.0195	1.000	1	0.02
gamma-BHC	10.207	508.79	0.0553	1.000	1	0.06
beta-BHC	10.428	461.75	0.1135	1.000	1	0.11
delta-BHC	11.207	1138.16	0.1258	1.000	1	0.13
Heptachlor	11.343	193.84	0.0307	1.000	1	0.03
Aldrin	12.194	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.671	423.00	0.0529	1.000	1	0.05
gamma-Chlordane	14.150	261.00	0.0318	1.000	1	0.03
alpha-Chlordane	14.517	304.49	0.0382	1.000	1	0.04
Endosulfan I	14.650	349.55	0.0465	1.000	1	0.05
4,4'-DDE	14.983	367.29	0.0464	1.000	1	0.05
Dieldrin	15.331	511.00	0.0631	1.000	1	0.06
Endrin	16.082	796.43	0.1224	1.000	1	0.12
4,4'-DDD	16.403	799.28	0.1239	1.000	1	0.12
Endosulfan II	16.600	1028.07	0.1465	1.000	1	0.15
4,4'-DDT	17.180	215.06	0.0392	1.000	1	0.04
Endrin aldehyde	17.436	1662.51	0.2972	1.000	1	0.30
Endosulfan sulfate	18.115	1318.50	0.2099	1.000	1	0.21
Methoxychlor	18.898	778.00	0.3076	1.000	1	0.31
Endrin ketone	19.413	868.00	0.1158	1.000	1	0.12
Decachlorobiphenyl	21.872	2726.42	0.5771	1.000	1	0.58
		14910.14	2.5633			2.56

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\286b018.TX0

GC23 Rtx-CLPesticides2

ample Name : hex Sample #: Page 1 of 1
leName : G:\gc23\CHb\286b018
ate : 10/13/04 2:03:31 PM
ethod : gc23ins Time of Injection: 10/12/04 10:03:31 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.62 mV High Point : 80.51 mV
cale Factor: 1.0 Plot Offset: -0.62 mV Plot Scale: 81.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 10/13/04 1:45:50 PM
Data Acquisition Time : 10/12/04 11:34:14 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a021p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.621	40961.54	4.3680	1.000	1	4.37
alpha-BHC	9.240	29439.00	2.0261	1.000	1	2.03
gamma-BHC	10.133	27832.17	2.1216	1.000	1	2.12
beta-BHC	10.399	13058.00	2.3430	1.000	1	2.34
delta-BHC	10.879	27603.00	2.1027	1.000	1	2.10
Heptachlor	11.432	23870.47	2.2186	1.000	1	2.22
Aldrin	12.231	25910.65	2.1406	1.000	1	2.14
Heptachlor epoxide	13.829	24664.63	2.1865	1.000	1	2.19
gamma-Chlordane	14.146	24850.36	2.1819	1.000	1	2.18
alpha-Chlordane	14.482	23850.14	2.1627	1.000	1	2.16
4,4'-DDE	14.699	44598.96	4.0881	1.000	1	4.09
Endosulfan I	14.822	22648.04	2.1814	1.000	1	2.18
Dieldrin	15.431	47362.34	4.1940	1.000	1	4.19
Endrin	16.004	38395.03	4.3953	1.000	1	4.40
4,4'-DDD	16.199	38032.78	4.0269	1.000	1	4.03
Endosulfan II	16.570	41821.50	4.2893	1.000	1	4.29
4,4'-DDT	16.885	35253.50	4.6053	1.000	1	4.61
Endrin aldehyde	17.619	35061.58	4.5758	1.000	1	4.58
Methoxychlor	18.099	83404.05	24.6787	1.000	1	24.68
Endosulfan sulfate	18.699	38455.16	4.4635	1.000	1	4.46
Endrin ketone	19.371	47989.37	4.5770	1.000	1	4.58
Decachlorobiphenyl	21.401	30133.31	4.5365	1.000	1	4.54
		765195.56	94.4635			94.46

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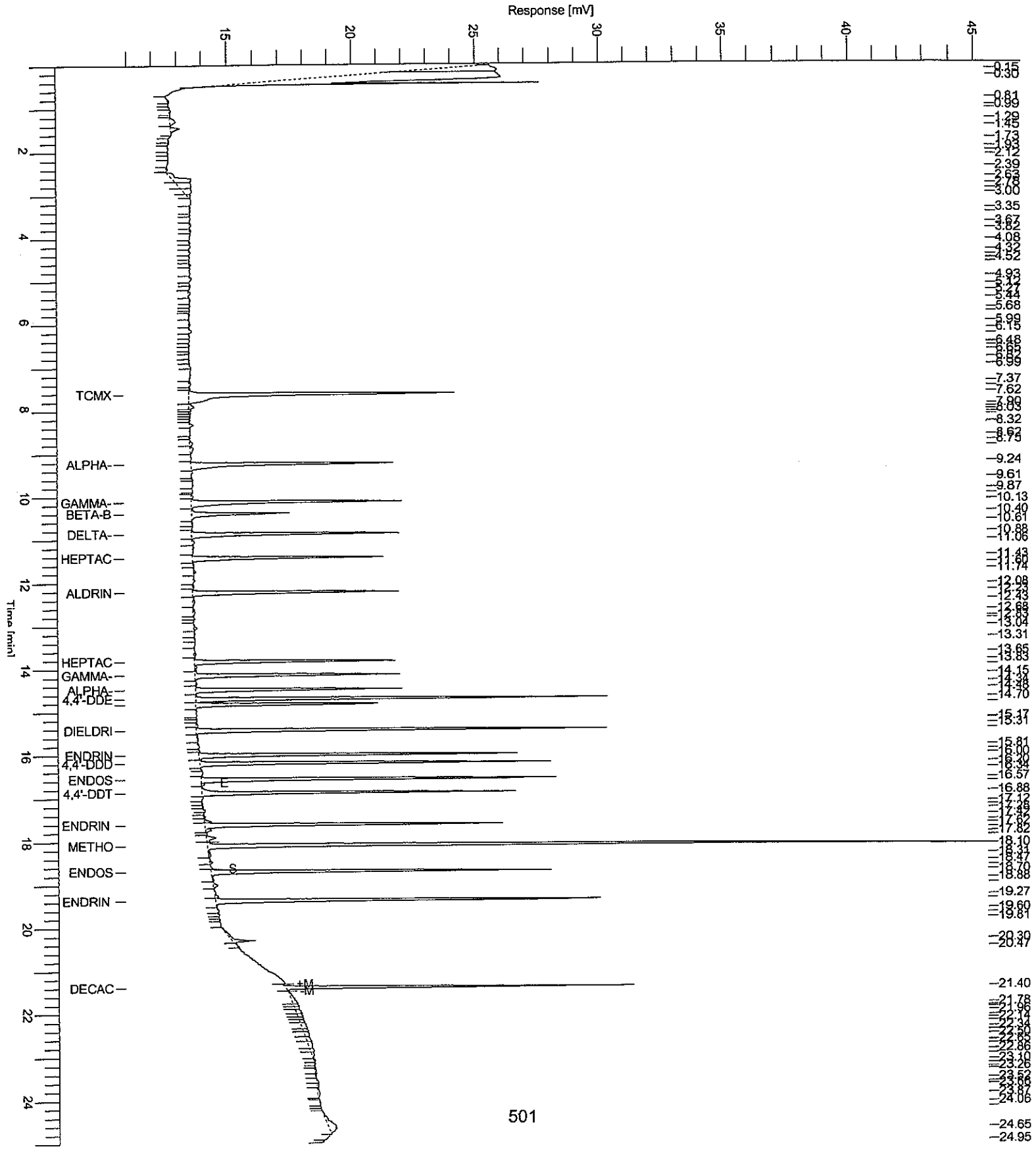
Report stored in ASCII file: G:\gc23\CHA\286a021p.TX0

RH
10/13/04

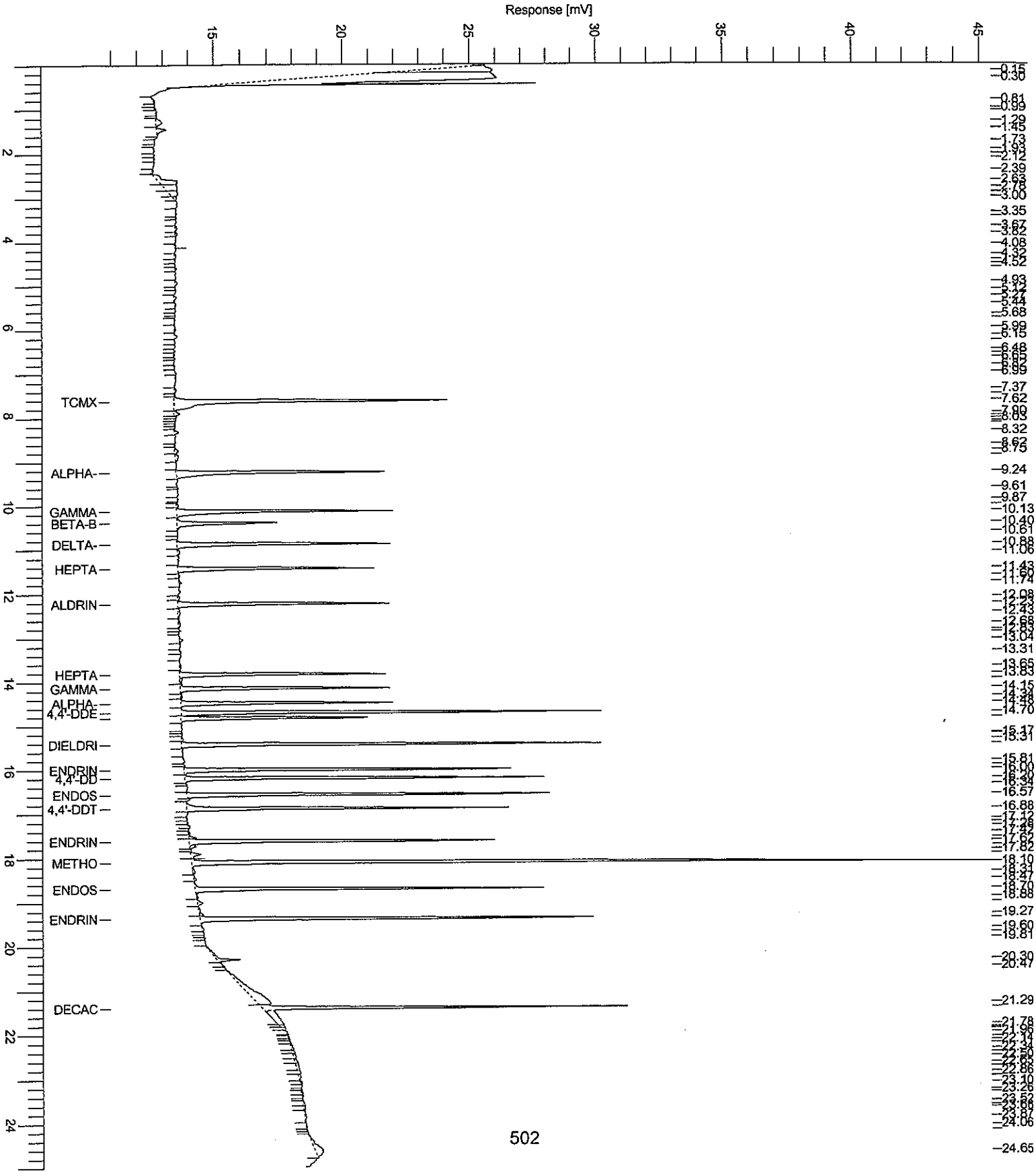
GC23 Rtx-CLPesticides

ample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
ileName : G:\gc23\CHa\286a021.raw
ate : 10/13/04 1:45:54 PM
lethod :
Time of Injection: 10/12/04 11:34:14 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 10.83 mV High Point : 45.47 mV
lot Offset: 10.83 mV Plot Scale: 34.6 mV



GC23 Rtx-CLPesticides

ımple Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
eName : G:\gc23\CHa\286a021.raw
ıte : 10/13/04 12:46:01 PM
ethod : gc23ins Time of Injection: 10/12/04 11:34:14 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 10.91 mV High Point : 45.47 mV
ale Factor: 1.0 Plot Offset: 10.91 mV Plot Scale: 34.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 10/13/04 1:52:41 PM
Data Acquisition Time : 10/12/04 11:34:14 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b021p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.549	28945.50	3.0926	1.000	1	3.09
alpha-BHC	9.237	20161.00	1.4089	1.000	1	1.41
gamma-BHC	10.201	18537.00	1.4327	1.000	1	1.43
beta-BHC	10.423	8914.00	1.5394	1.000	1	1.54
delta-BHC	11.203	17977.00	1.3866	1.000	1	1.39
Heptachlor	11.365	11912.00	1.3913	1.000	1	1.39
Aldrin	12.198	17531.11	1.4418	1.000	1	1.44
Heptachlor epoxide	13.670	16495.00	1.4824	1.000	1	1.48
gamma-Chlordane	14.147	16773.00	1.4530	1.000	1	1.45
alpha-Chlordane	14.518	16524.00	1.4849	1.000	1	1.48
Endosulfan I	14.646	15450.50	1.4818	1.000	1	1.48
4,4'-DDE	14.982	31489.00	2.8773	1.000	1	2.88
Dieldrin	15.331	33158.00	2.9865	1.000	1	2.99
Endrin	16.079	26605.23	3.2578	1.000	1	3.26
4,4'-DDD	16.404	26382.50	2.8738	1.000	1	2.87
Endosulfan II	16.599	29620.00	3.0745	1.000	1	3.07
4,4'-DDT	17.172	20796.50	3.1383	1.000	1	3.14
Endrin aldehyde	17.436	24630.31	3.2162	1.000	1	3.22
Endosulfan sulfate	18.115	26902.02	3.0880	1.000	1	3.09
Methoxychlor	18.889	53651.88	17.5280	1.000	1	17.53
Endrin ketone	19.413	32761.98	3.1694	1.000	1	3.17
Decachlorobiphenyl	21.868	21572.37	3.5349	1.000	1	3.53
		516789.89	66.3401			66.34

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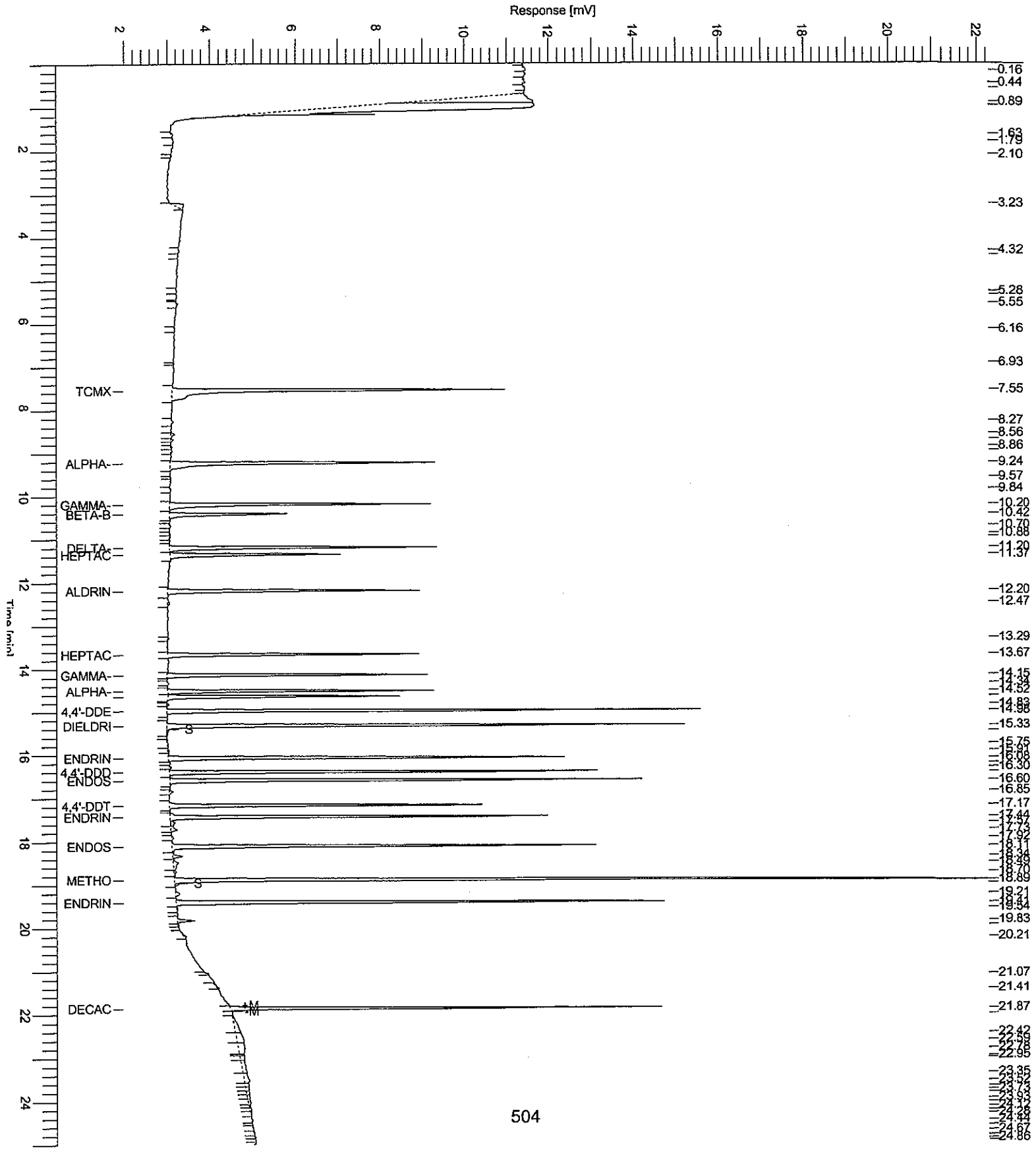
Report stored in ASCII file: G:\gc23\CHB\286b021p.TX0

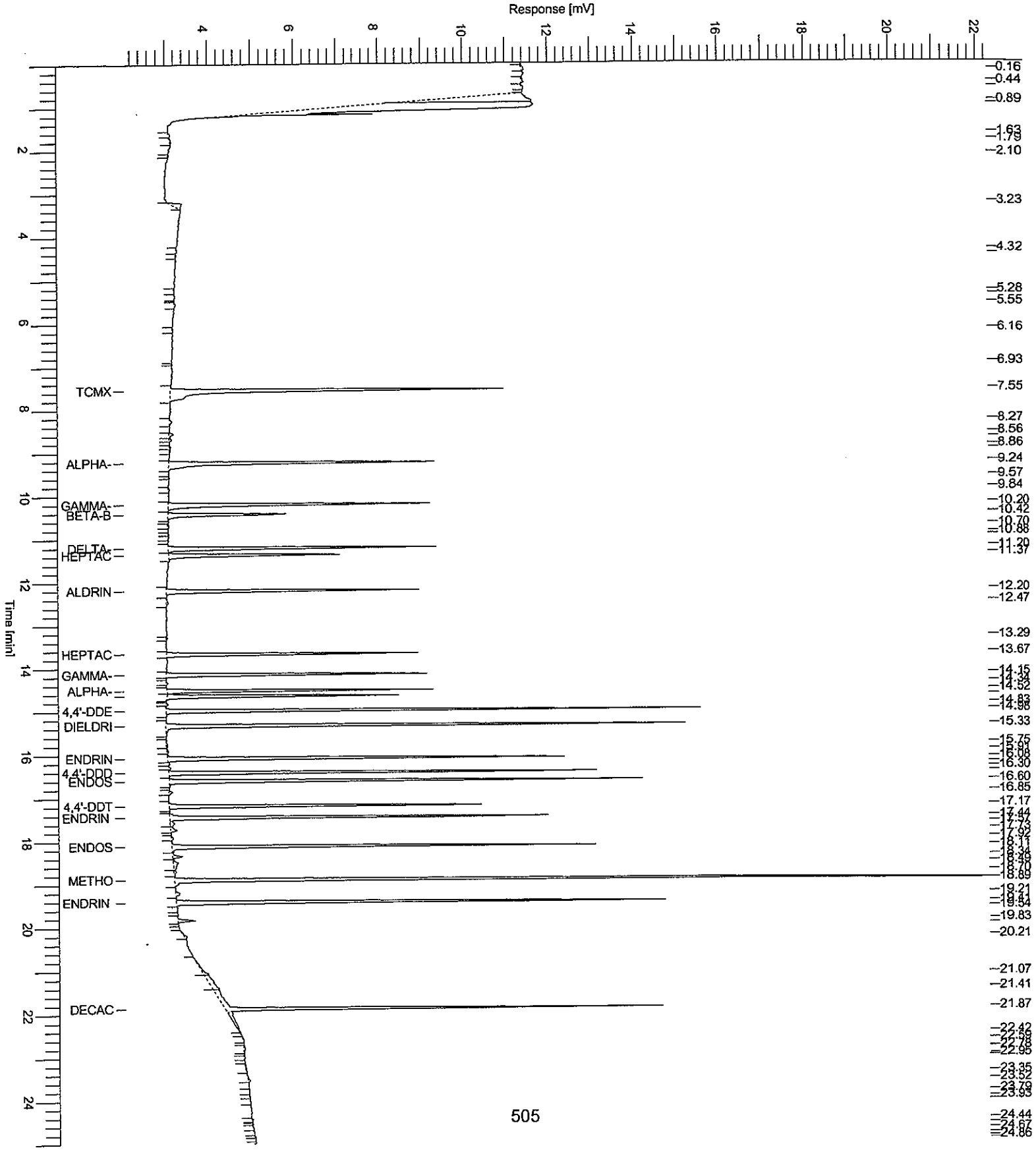
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
leName : G:\gc23\CHb\286b021.raw
ate : 10/13/04 1:52:44 PM
ethod :
Time of Injection: 10/12/04 11:34:14 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.98 mV High Point : 22.26 mV
ot Offset: 1.98 mV Plot Scale: 20.3 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc23\CHb\286b021
Date : 10/13/04 12:45:40 PM
Method : gc23ins Time of Injection: 10/12/04 11:34:14 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 2.03 mV High Point : 22.26 mV
Scale Factor: 1.0 Plot Offset: 2.03 mV Plot Scale: 20.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 10/13/04 1:47:20 PM
Data Acquisition Time : 10/13/04 12:04:26 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a022p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.621	92118.66	9.8231	1.000	1	9.82
alpha-BHC	9.241	67816.00	4.6674	1.000	1	4.67
gamma-BHC	10.134	62319.71	4.7505	1.000	1	4.75
beta-BHC	10.400	27746.00	4.9784	1.000	1	4.98
delta-BHC	10.880	61545.42	4.6882	1.000	1	4.69
Heptachlor	11.433	52747.81	4.9026	1.000	1	4.90
Aldrin	12.231	56583.31	4.6747	1.000	1	4.67
Heptachlor epoxide	13.830	52819.00	4.6823	1.000	1	4.68
gamma-Chlordane	14.147	53179.00	4.6693	1.000	1	4.67
alpha-Chlordane	14.482	51081.00	4.6319	1.000	1	4.63
4,4'-DDE	14.700	97244.77	8.9137	1.000	1	8.91
Endosulfan I	14.823	48851.23	4.7051	1.000	1	4.71
Dieldrin	15.432	101968.19	9.0295	1.000	1	9.03
Endrin	16.005	80510.06	9.2164	1.000	1	9.22
4,4'-DDD	16.199	81089.91	8.5859	1.000	1	8.59
Endosulfan II	16.570	87981.12	9.0236	1.000	1	9.02
4,4'-DDT	16.885	74031.00	9.6710	1.000	1	9.67
Endrin aldehyde	17.619	72211.53	9.4242	1.000	1	9.42
Methoxychlor	18.099	169648.50	50.1978	1.000	1	50.20
Endosulfan sulfate	18.699	78475.75	9.1086	1.000	1	9.11
Endrin ketone	19.371	97646.59	9.3131	1.000	1	9.31
Decachlorobiphenyl	21.401	60914.12	9.1705	1.000	1	9.17
		1628528.68	198.8280			198.83

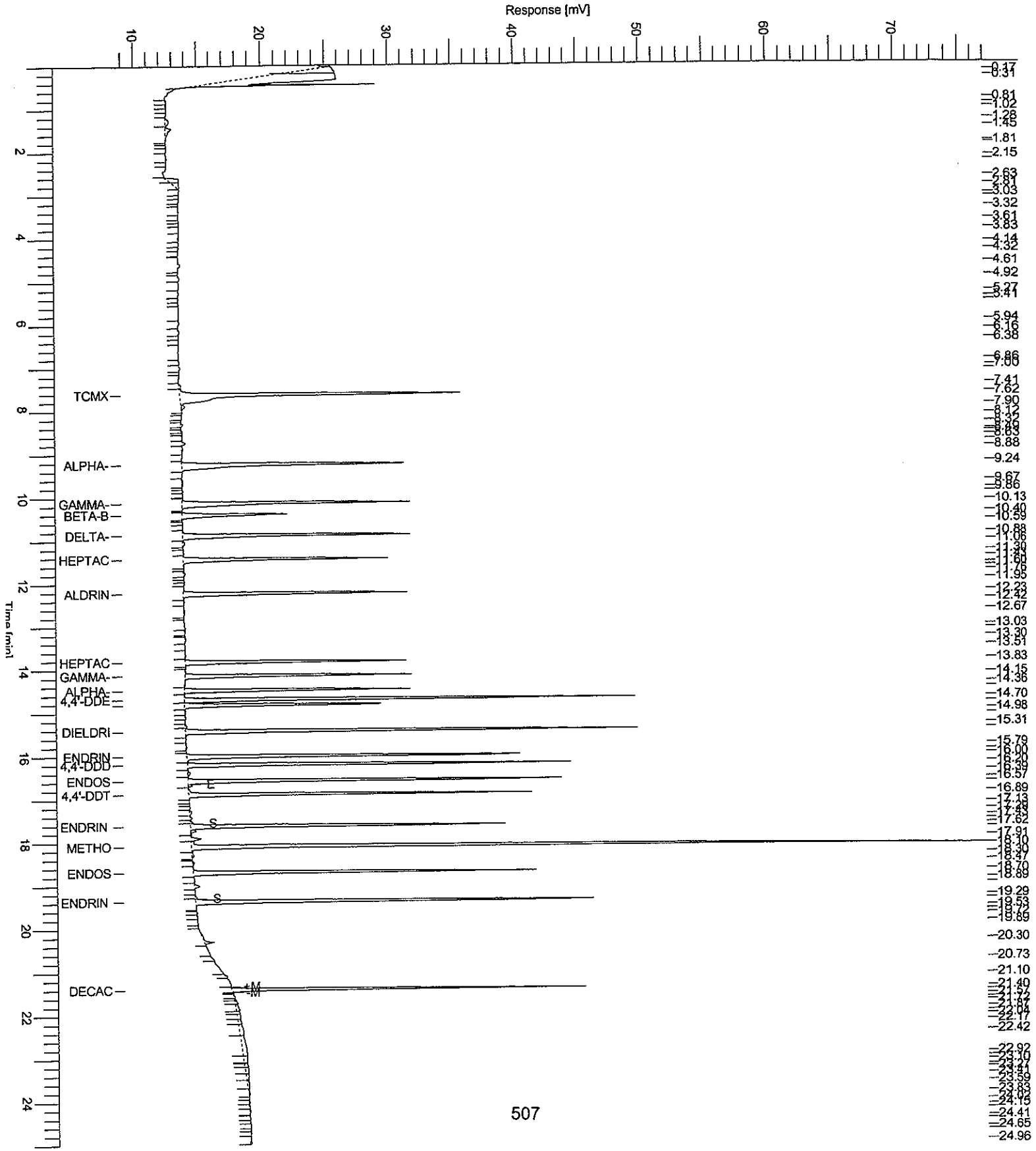
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\286a022p.TX0

RM
10/13/04

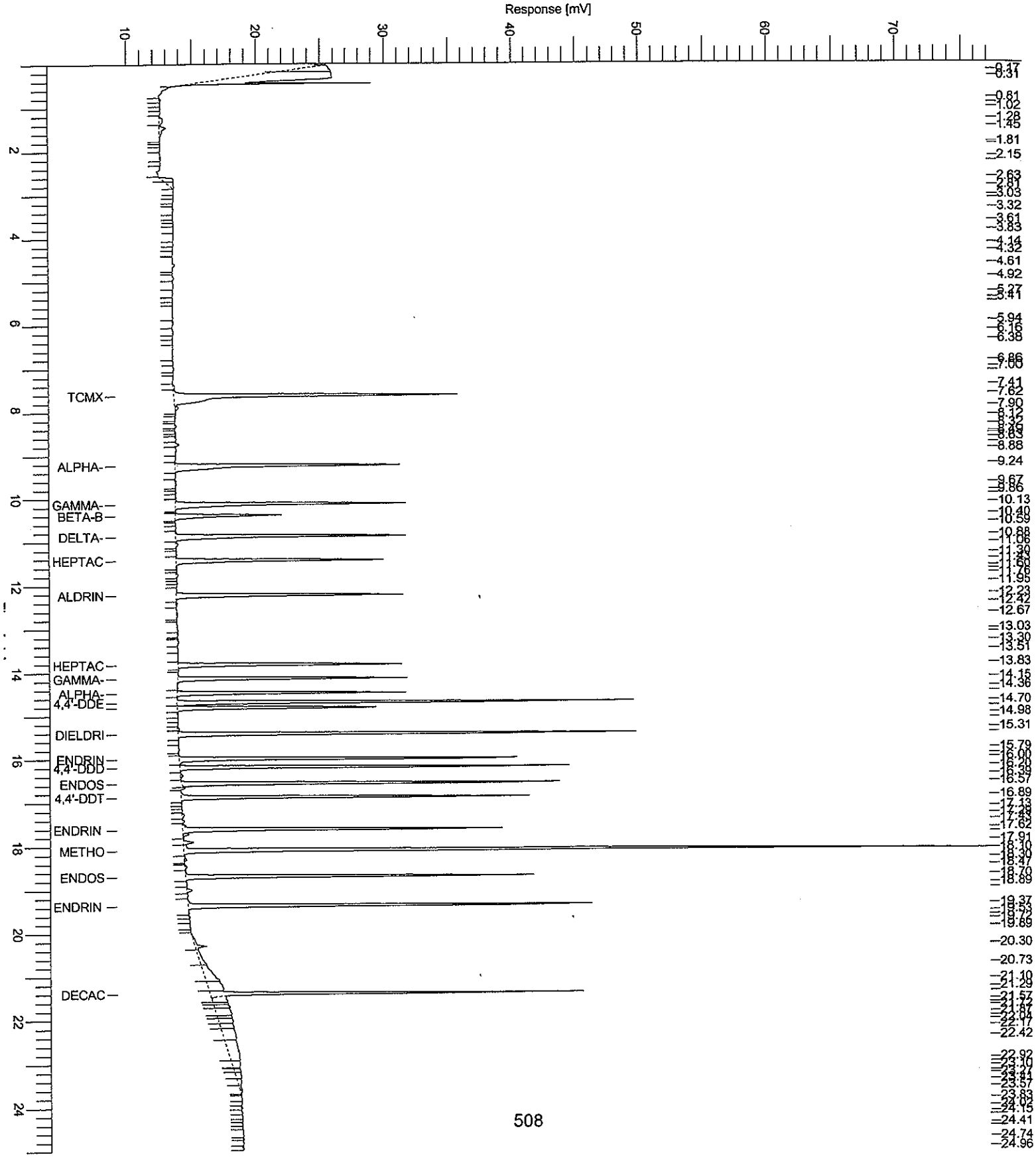
GC23 Rtx-CLPesticides

ample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
leName : G:\gc23\CHa\286a022.raw
ate : 10/13/04 1:47:25 PM
ethod :
Time of Injection: 10/13/04 12:04:26 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 8.88 mV High Point : 77.01 mV
lot Offset: 8.88 mV Plot Scale: 68.1 mV



GC23 Rtx-CLPesticides

ımple Name : ical,04ws1629,pest_2 Sample #: level_2
eName : G:\gc23\CHa\286a022.raw
ıte : 10/13/04 12:46:05 PM
ethod : gc23ins Time of Injection: 10/13/04 12:04:26 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 9.05 mV High Point : 77.01 mV
ale Factor: 1.0 Plot Offset: 9.05 mV Plot Scale: 68.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 10/13/04 1:53:31 PM
Data Acquisition Time : 10/13/04 12:04:26 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b022p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.548	70883.50	7.5734	1.000	1	7.57
alpha-BHC	9.237	50739.00	3.5459	1.000	1	3.55
gamma-BHC	10.201	46405.00	3.5866	1.000	1	3.59
beta-BHC	10.423	21488.00	3.7108	1.000	1	3.71
delta-BHC	11.203	45355.50	3.4983	1.000	1	3.50
Heptachlor	11.365	31101.00	3.6325	1.000	1	3.63
Aldrin	12.198	43767.00	3.5995	1.000	1	3.60
Heptachlor epoxide	13.670	41301.58	3.7116	1.000	1	3.71
gamma-Chlordane	14.146	41974.50	3.6362	1.000	1	3.64
alpha-Chlordane	14.517	41123.39	3.6954	1.000	1	3.70
Endosulfan I	14.645	38930.61	3.7338	1.000	1	3.73
4,4'-DDE	14.982	80635.92	7.3680	1.000	1	7.37
Dieldrin	15.330	83169.00	7.4911	1.000	1	7.49
Endrin	16.079	67363.66	8.2486	1.000	1	8.25
4,4'-DDD	16.404	66898.37	7.2871	1.000	1	7.29
Endosulfan II	16.598	74235.00	7.7054	1.000	1	7.71
4,4'-DDT	17.172	55227.00	8.3339	1.000	1	8.33
Endrin aldehyde	17.436	60900.18	7.9523	1.000	1	7.95
Endosulfan sulfate	18.114	66570.60	7.6415	1.000	1	7.64
Methoxychlor	18.889	137887.68	45.0477	1.000	1	45.05
Endrin ketone	19.412	81765.00	7.9100	1.000	1	7.91
Decachlorobiphenyl	21.867	53859.07	8.8255	1.000	1	8.83
		1301580.56	167.7351			167.74

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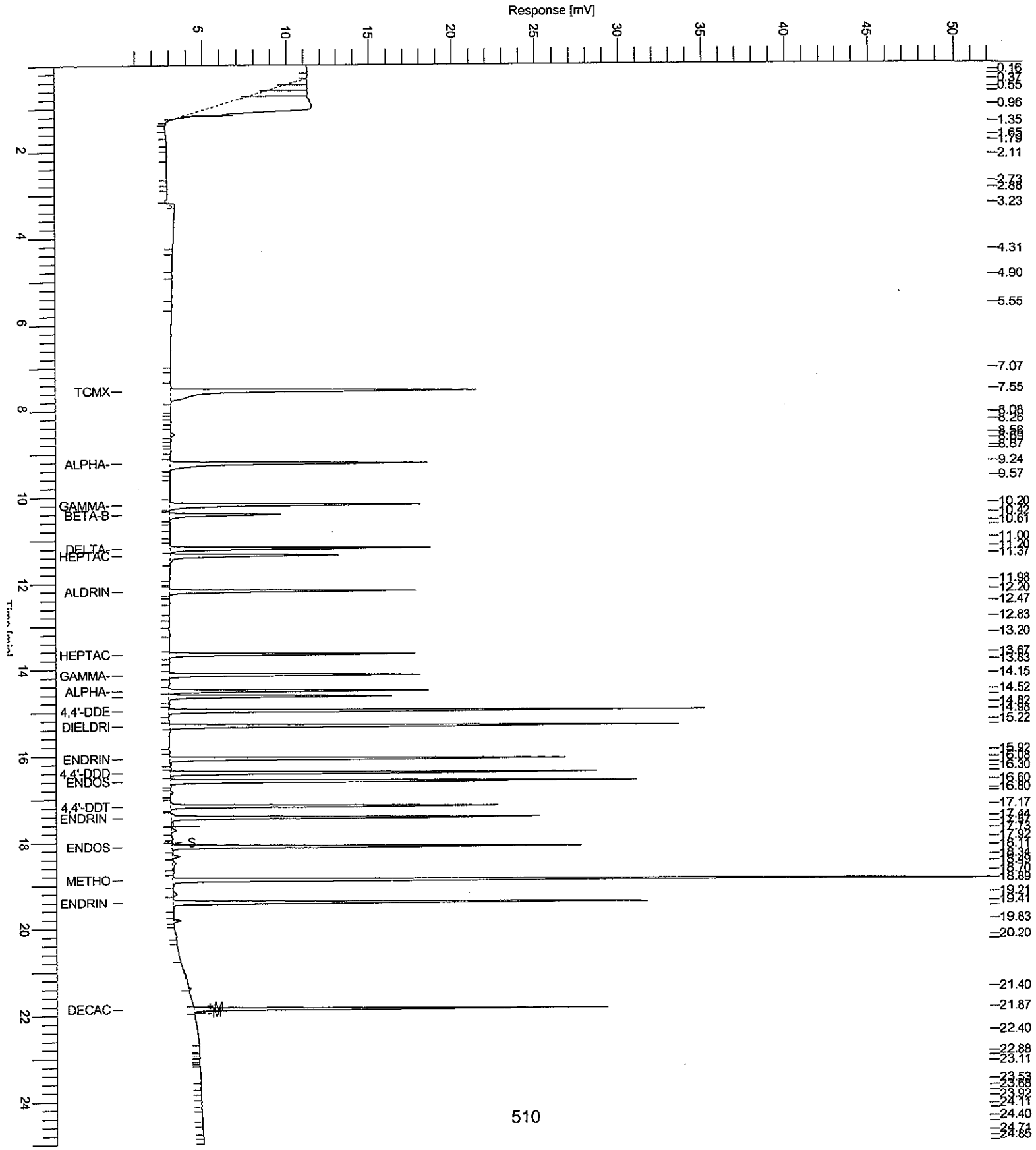
Report stored in ASCII file: G:\gc23\CHB\286b022p.TX0

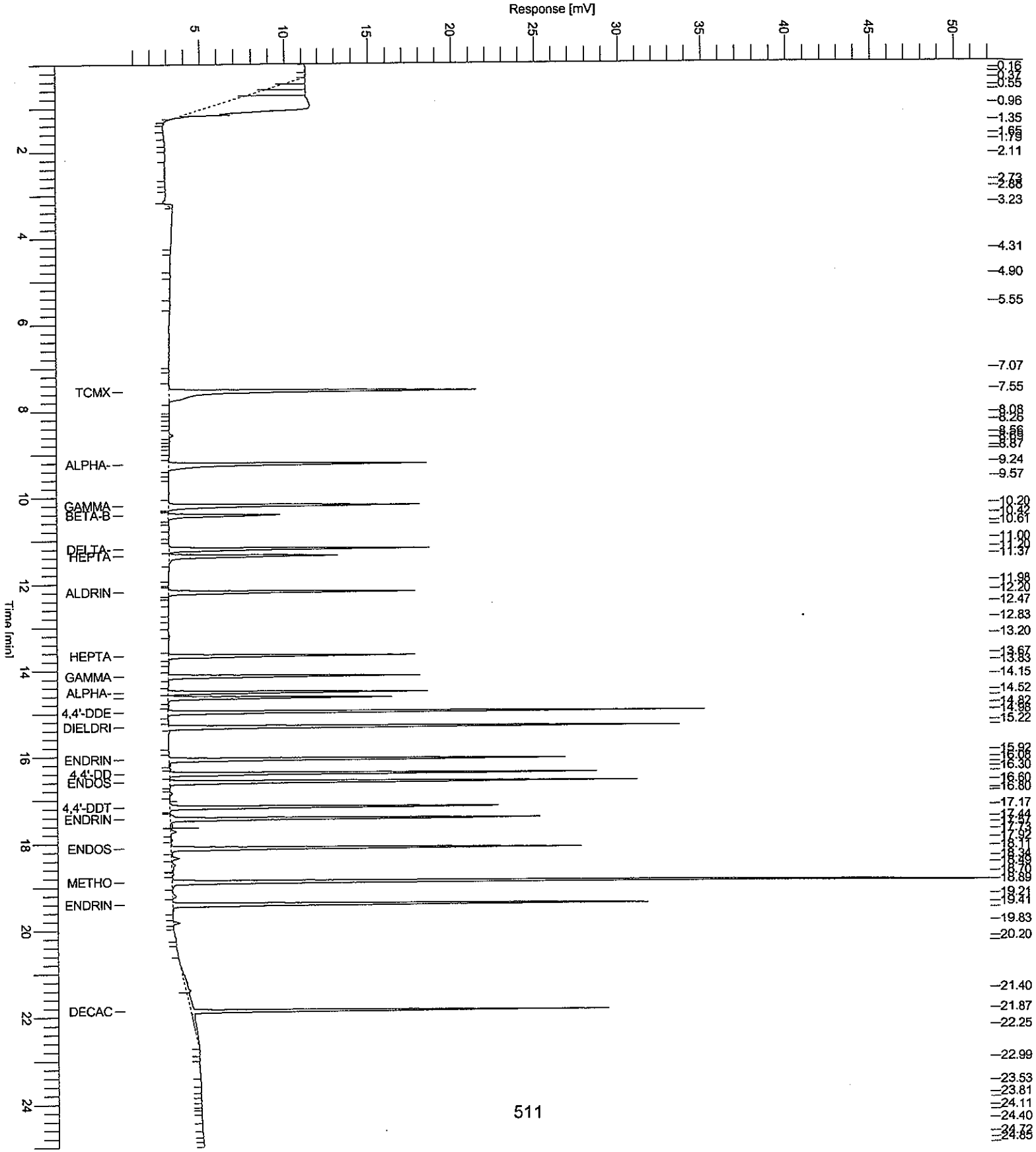
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
ileName : G:\gc23\CHb\286b022.raw
ate : 10/13/04 1:53:35 PM
lethod : Time of Injection: 10/13/04 12:04:26 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.18 mV High Point : 52.02 mV
lot Offset: 0.18 mV Plot Scale: 51.8 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
ileName : G:\gc23\CHb\286b022
ate : 10/13/04 12:45:42 PM
ethod : gc23ins Time of Injection: 10/13/04 12:04:26 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.31 mV High Point : 52.02 mV
cale Factor: 1.0 Plot Offset: 0.31 mV Plot Scale: 51.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 10/13/04 1:48:26 PM
Data Acquisition Time : 10/13/04 12:34:44 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a023p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.621	178818.40	19.0684	1.000	1	19.07
alpha-BHC	9.240	136252.00	9.3775	1.000	1	9.38
gamma-BHC	10.133	123555.00	9.4183	1.000	1	9.42
beta-BHC	10.398	55681.40	9.9909	1.000	1	9.99
delta-BHC	10.879	123189.94	9.3840	1.000	1	9.38
Heptachlor	11.431	107824.79	10.0217	1.000	1	10.02
Aldrin	12.230	112812.00	9.3200	1.000	1	9.32
Heptachlor epoxide	13.828	106103.29	9.4058	1.000	1	9.41
gamma-Chlordane	14.145	105292.15	9.2450	1.000	1	9.24
alpha-Chlordane	14.480	102043.85	9.2530	1.000	1	9.25
4,4'-DDE	14.698	196728.76	18.0327	1.000	1	18.03
Endosulfan I	14.821	98111.24	9.4497	1.000	1	9.45
Dieldrin	15.430	207133.33	18.3420	1.000	1	18.34
Endrin	16.003	160021.00	18.3184	1.000	1	18.32
4,4'-DDD	16.197	163395.00	17.3004	1.000	1	17.30
Endosulfan II	16.569	177837.59	18.2396	1.000	1	18.24
4,4'-DDT	16.884	154790.61	20.2211	1.000	1	20.22
Endrin aldehyde	17.617	144759.05	18.8923	1.000	1	18.89
Methoxychlor	18.097	350573.91	103.7324	1.000	1	103.73
Endosulfan sulfate	18.697	158300.50	18.3738	1.000	1	18.37
Endrin ketone	19.369	197848.81	18.8700	1.000	1	18.87
Decachlorobiphenyl	21.400	123557.95	18.6014	1.000	1	18.60
		3284630.57	402.8585			402.86

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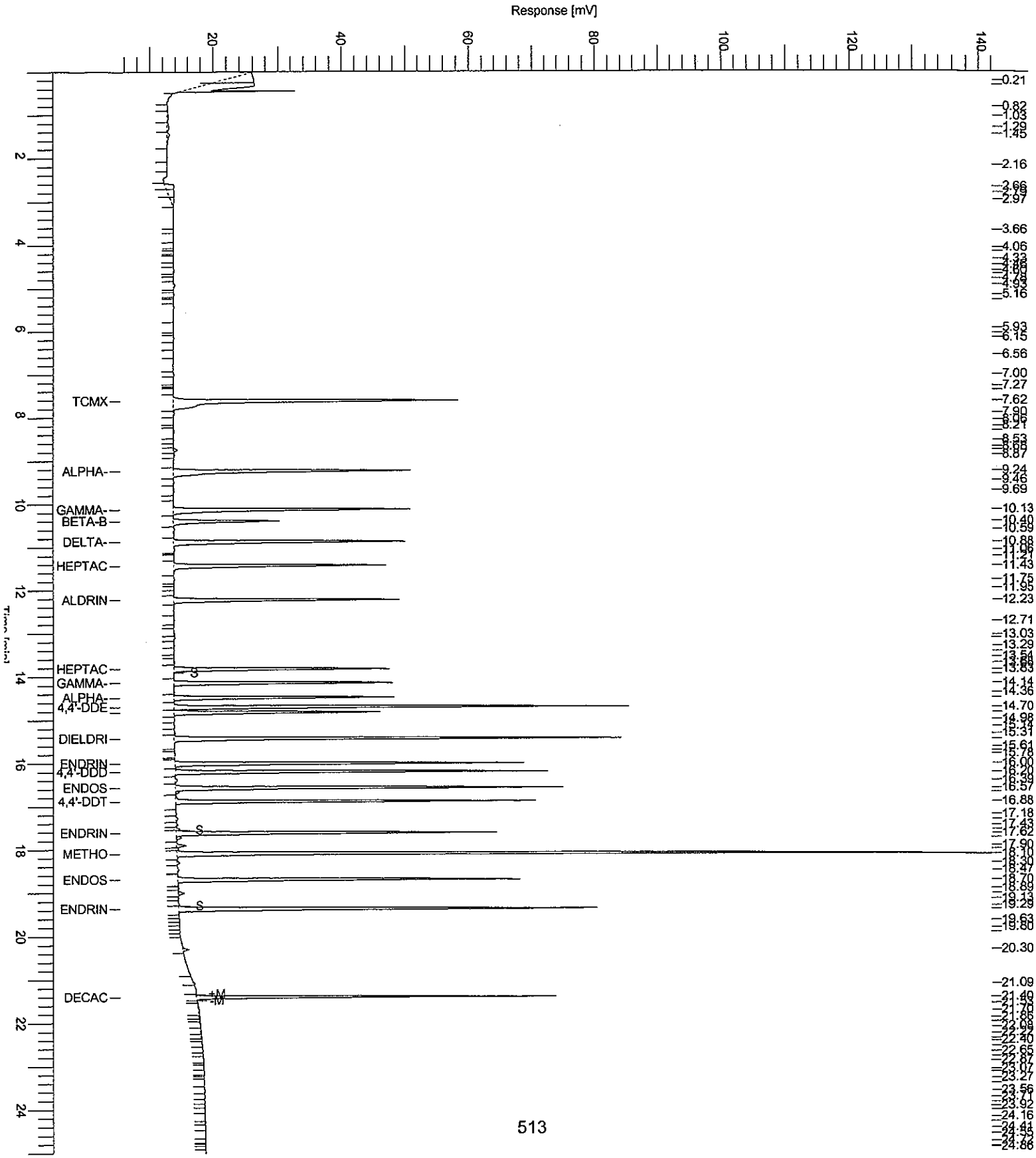
Report stored in ASCII file: G:\gc23\CHA\286a023p.TX0

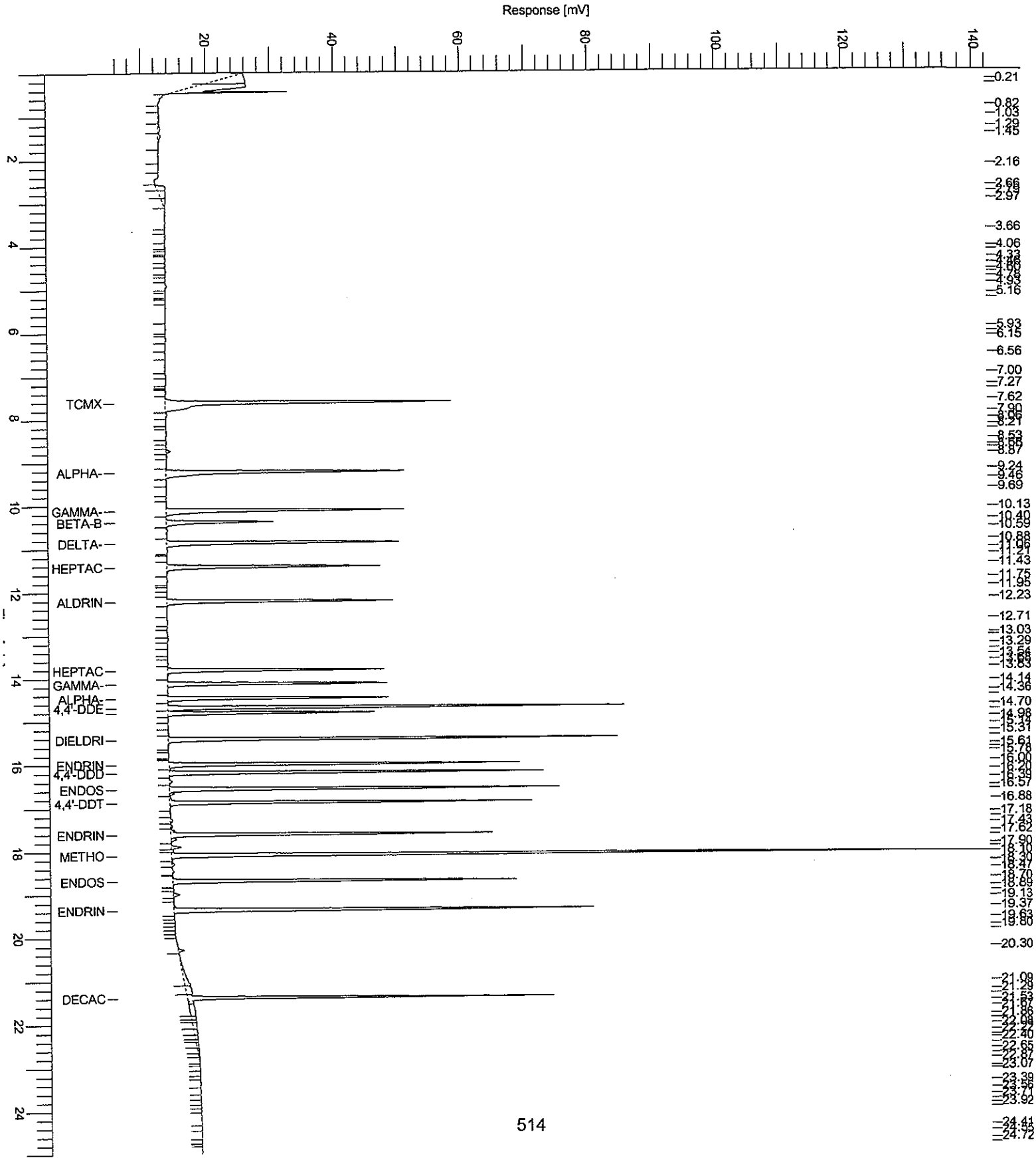
GC23 Rtx-CLPesticides

ample Name : ical,04ws1630,pest_3 Sample #: level_3 Page 1 of 1
ileName : G:\gc23\CHa\286a023.raw
ate : 10/13/04 1:48:30 PM
lethod : Time of Injection: 10/13/04 12:34:44 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 5.28 mV High Point : 142.16 mV
lot Offset: 5.28 mV Plot Scale: 136.9 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws1630,pest_3 Sample #: level_3 Page 1 of 1
eName : G:\gc23\CHa\286a023.raw
ate : 10/13/04 12:46:09 PM
ethod : gc23ins Time of Injection: 10/13/04 12:34:44 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 5.62 mV High Point : 142.16 mV
ale Factor: 1.0 Plot Offset: 5.62 mV Plot Scale: 136.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 10/13/04 1:54:16 PM
Data Acquisition Time : 10/13/04 12:34:44 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b023p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	140931.00	15.0575	1.000	1	15.06
alpha-BHC	9.235	103765.00	7.2515	1.000	1	7.25
gamma-BHC	10.199	93942.50	7.2608	1.000	1	7.26
beta-BHC	10.421	42504.19	7.3402	1.000	1	7.34
delta-BHC	11.201	92122.00	7.1054	1.000	1	7.11
Heptachlor	11.364	64592.99	7.5443	1.000	1	7.54
Aldrin	12.195	88554.95	7.2829	1.000	1	7.28
Heptachlor epoxide	13.669	82731.83	7.4349	1.000	1	7.43
gamma-Chlordane	14.145	83781.43	7.2578	1.000	1	7.26
alpha-Chlordane	14.516	81722.45	7.3437	1.000	1	7.34
Endosulfan I	14.639	77620.71	7.4445	1.000	1	7.44
4,4'-DDE	14.981	162540.00	14.8520	1.000	1	14.85
Dieldrin	15.329	167646.00	15.0999	1.000	1	15.10
Endrin	16.072	135136.42	16.5473	1.000	1	16.55
4,4'-DDD	16.402	132852.41	14.4713	1.000	1	14.47
Endosulfan II	16.597	145177.00	15.0690	1.000	1	15.07
4,4'-DDT	17.170	111896.00	16.8854	1.000	1	16.89
Endrin aldehyde	17.435	116110.15	15.1616	1.000	1	15.16
Endosulfan sulfate	18.113	127970.95	14.6896	1.000	1	14.69
Methoxychlor	18.887	270582.50	88.3989	1.000	1	88.40
Endrin ketone	19.411	157046.95	15.1929	1.000	1	15.19
Decachlorobiphenyl	21.867	101000.65	16.5502	1.000	1	16.55
		2580228.06	331.2415			331.24

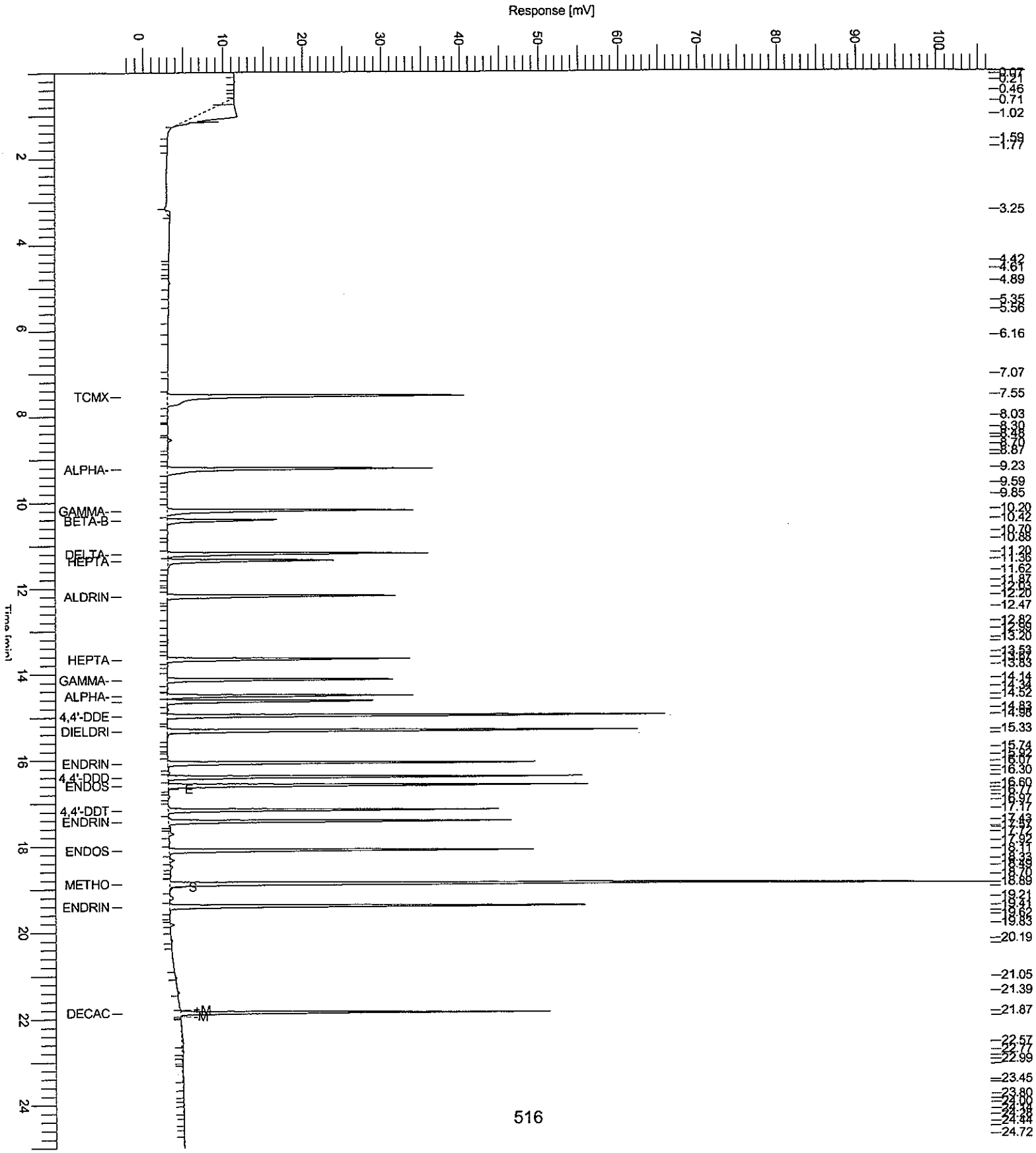
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\286b023p.TX0

RM
10/13/04

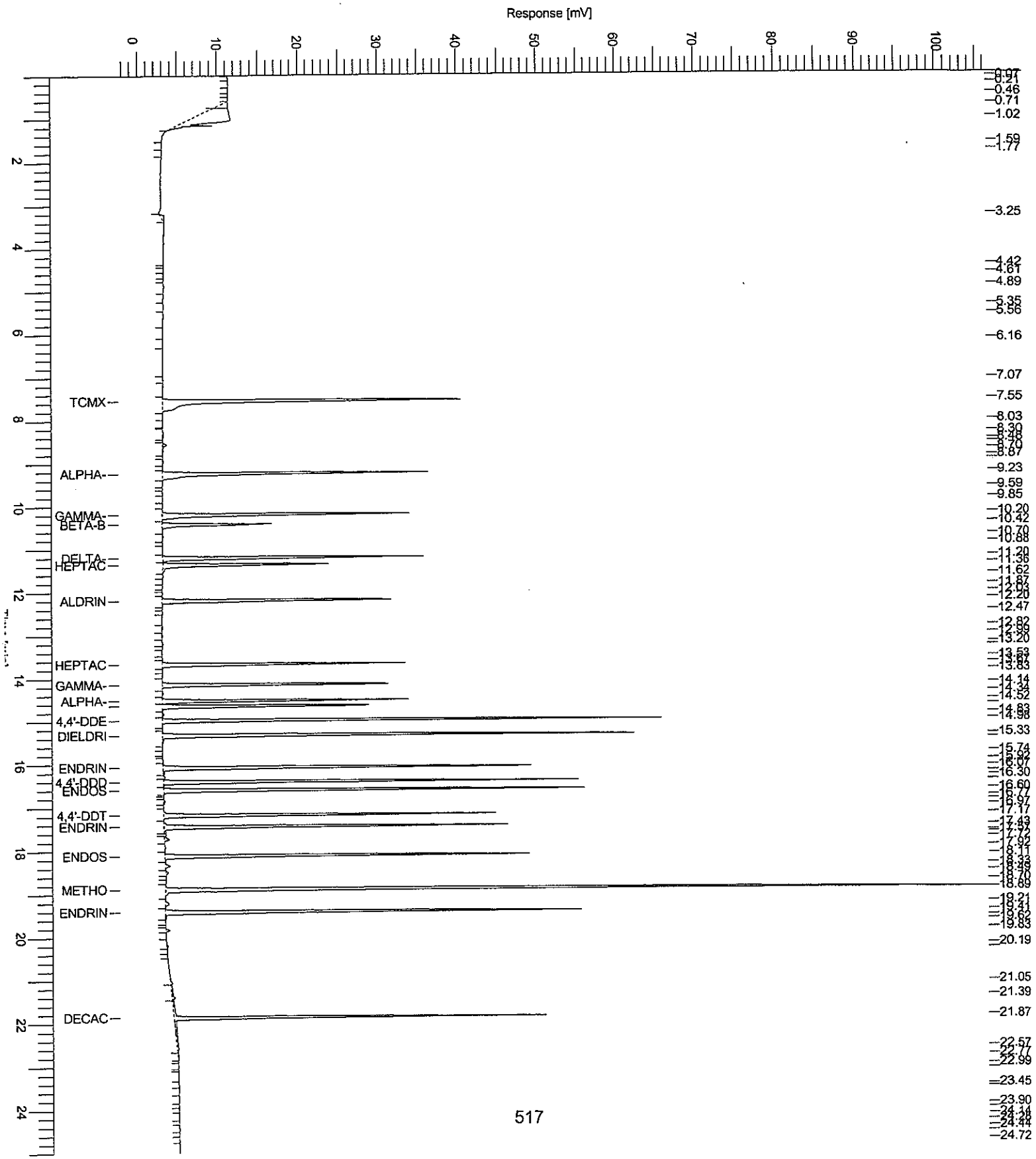
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1630,pest_3 Sample #: level_3 Page 1 of 1
ileName : G:\gc23\CHb\286b023.raw
ate : 10/13/04 1:54:20 PM
lethod : Time of Injection: 10/13/04 12:34:44 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.79 mV High Point : 106.40 mV
lot Offset: -2.79 mV Plot Scale: 109.2 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1630,pest_3 Sample #: level_3 Page 1 of 1
leName : G:\gc23\CHb\286b023
ate : 10/13/04 12:45:45 PM
ethod : gc23ins Time of Injection: 10/13/04 12:34:44 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.52 mV High Point : 106.40 mV
cale Factor: 1.0 Plot Offset: -2.52 mV Plot Scale: 108.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 24

Date : 10/13/04 1:49:22 PM
Data Acquisition Time : 10/13/04 1:04:59 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a024p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

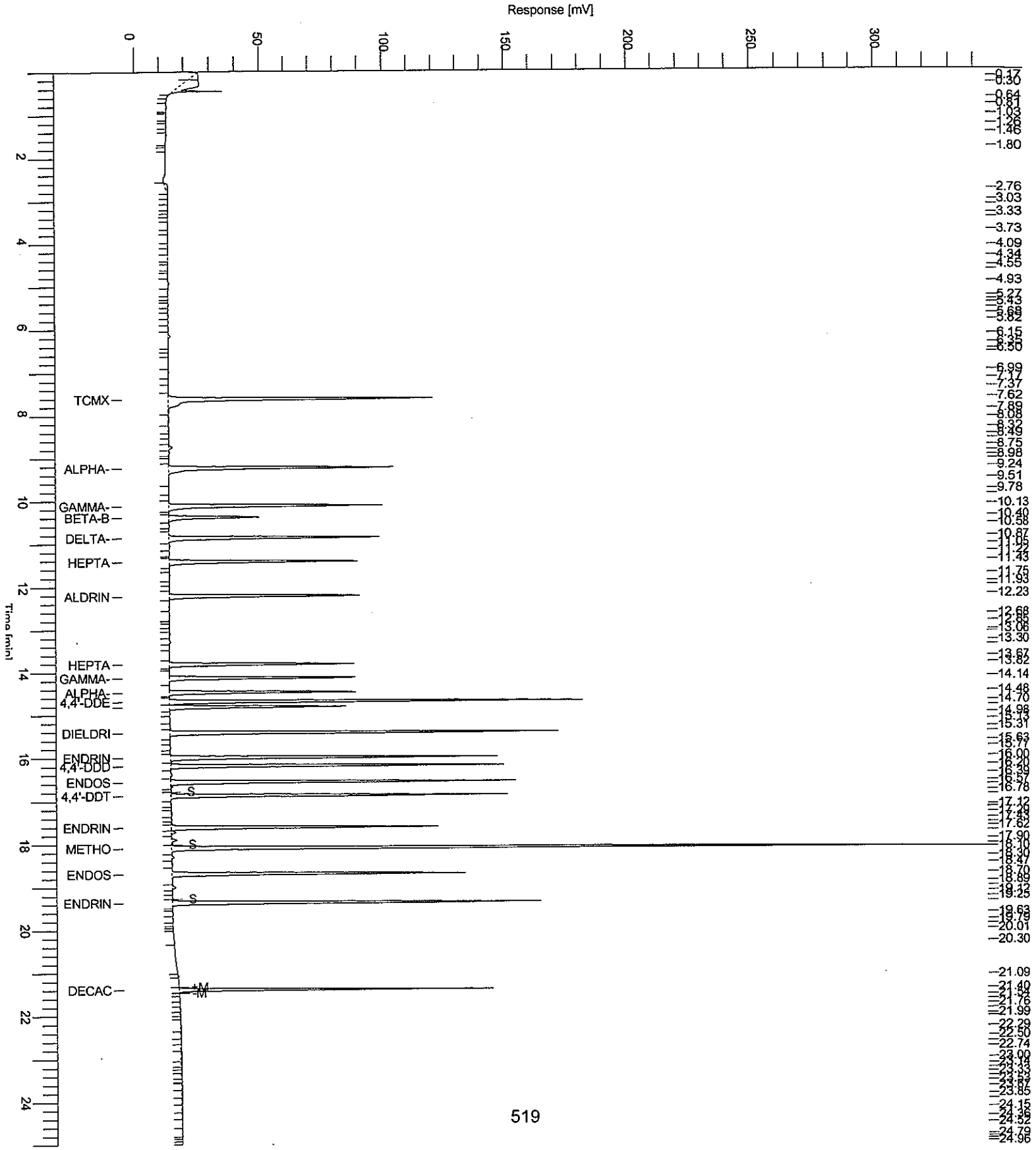
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.620	385361.81	41.0933	1.000	1	41.09
alpha-BHC	9.238	303318.06	20.8757	1.000	1	20.88
gamma-BHC	10.131	273169.17	20.8231	1.000	1	20.82
beta-BHC	10.396	118993.55	21.3509	1.000	1	21.35
delta-BHC	10.872	274606.36	20.9182	1.000	1	20.92
Heptachlor	11.430	239916.00	22.2988	1.000	1	22.30
Aldrin	12.228	249713.46	20.6302	1.000	1	20.63
Heptachlor epoxide	13.822	232488.65	20.6096	1.000	1	20.61
gamma-Chlordane	14.139	233743.00	20.5233	1.000	1	20.52
alpha-Chlordane	14.479	226143.50	20.5060	1.000	1	20.51
4,4'-DDE	14.697	455384.55	41.7419	1.000	1	41.74
Endosulfan I	14.820	215060.28	20.7137	1.000	1	20.71
Dieldrin	15.429	470252.28	41.6417	1.000	1	41.64
Endrin	16.002	381661.50	43.6908	1.000	1	43.69
4,4'-DDD	16.197	370664.00	39.2462	1.000	1	39.25
Endosulfan II	16.568	397734.97	40.7929	1.000	1	40.79
4,4'-DDT	16.883	360415.57	47.0829	1.000	1	47.08
Endrin aldehyde	17.616	308138.49	40.2147	1.000	1	40.21
Methoxychlor	18.097	873576.60	258.4854	1.000	1	258.49
Endosulfan sulfate	18.697	351369.23	40.7831	1.000	1	40.78
Endrin ketone	19.369	436380.69	41.6202	1.000	1	41.62
Decachlorobiphenyl	21.400	272056.34	40.9576	1.000	1	40.96
		7430148.07	926.6003			926.60

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\286a024p.TX0

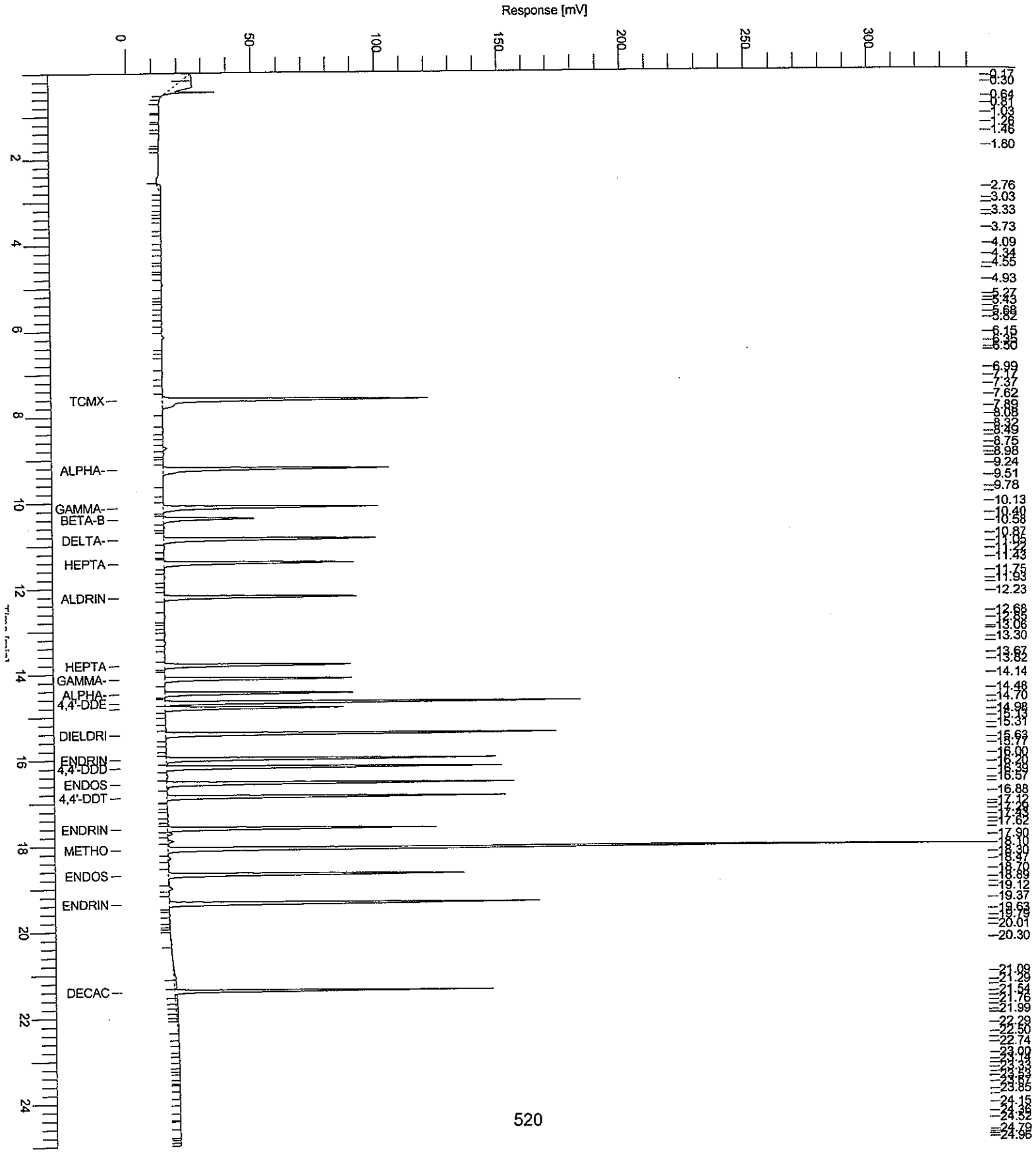
GC23 Rtx-CLPesticides

ample Name : ical,04ws1632,pest_4 Sample #: level_4 Page 1 of 1
ileName : G:\gc23\CHa\286a024.raw
ate : 10/13/04 1:49:26 PM
lethod : Time of Injection: 10/13/04 1:04:59 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -5.57 mV High Point : 345.36 mV
lot Offset: -5.57 mV Plot Scale: 350.9 mV



GC23 Rtx-CLPesticides

mple Name : ical,04ws1632,pest_4 Sample #: level_4 Page 1 of 1
eName : G:\gc23\CHa\286a024.raw
ate : 10/13/04 12:46:13 PM
ethod : gc23ins Time of Injection: 10/13/04 1:04:59 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -4.69 mV High Point : 345.36 mV
ale Factor: 1.0 Plot Offset: -4.69 mV Plot Scale: 350.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 24

Date : 10/13/04 1:55:43 PM
Data Acquisition Time : 10/13/04 1:04:59 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b024p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.547	273002.00	29.1684	1.000	1	29.17
alpha-BHC	9.236	206616.00	14.4392	1.000	1	14.44
gamma-BHC	10.200	187759.00	14.5119	1.000	1	14.51
beta-BHC	10.421	83168.02	14.3625	1.000	1	14.36
delta-BHC	11.201	185667.00	14.3206	1.000	1	14.32
Heptachlor	11.364	130431.00	15.2340	1.000	1	15.23
Aldrin	12.196	178727.00	14.6987	1.000	1	14.70
Heptachlor epoxide	13.669	167105.49	15.0173	1.000	1	15.02
gamma-Chlordane	14.144	171201.12	14.8308	1.000	1	14.83
alpha-Chlordane	14.516	166501.94	14.9621	1.000	1	14.96
Endosulfan I	14.639	157353.32	15.0915	1.000	1	15.09
4,4'-DDE	14.981	335239.00	30.6322	1.000	1	30.63
Dieldrin	15.329	342643.90	30.8620	1.000	1	30.86
Endrin	16.072	278352.32	34.0839	1.000	1	34.08
4,4'-DDD	16.402	273328.81	29.7731	1.000	1	29.77
Endosulfan II	16.597	295156.00	30.6364	1.000	1	30.64
4,4'-DDT	17.170	232124.50	35.0283	1.000	1	35.03
Endrin aldehyde	17.434	227340.89	29.6861	1.000	1	29.69
Endosulfan sulfate	18.113	260840.20	29.9414	1.000	1	29.94
Methoxychlor	18.887	540679.86	176.6394	1.000	1	176.64
Endrin ketone	19.411	309885.00	29.9785	1.000	1	29.98
Decachlorobiphenyl	21.866	186154.22	30.5036	1.000	1	30.50
		5189276.60	664.4019			664.40

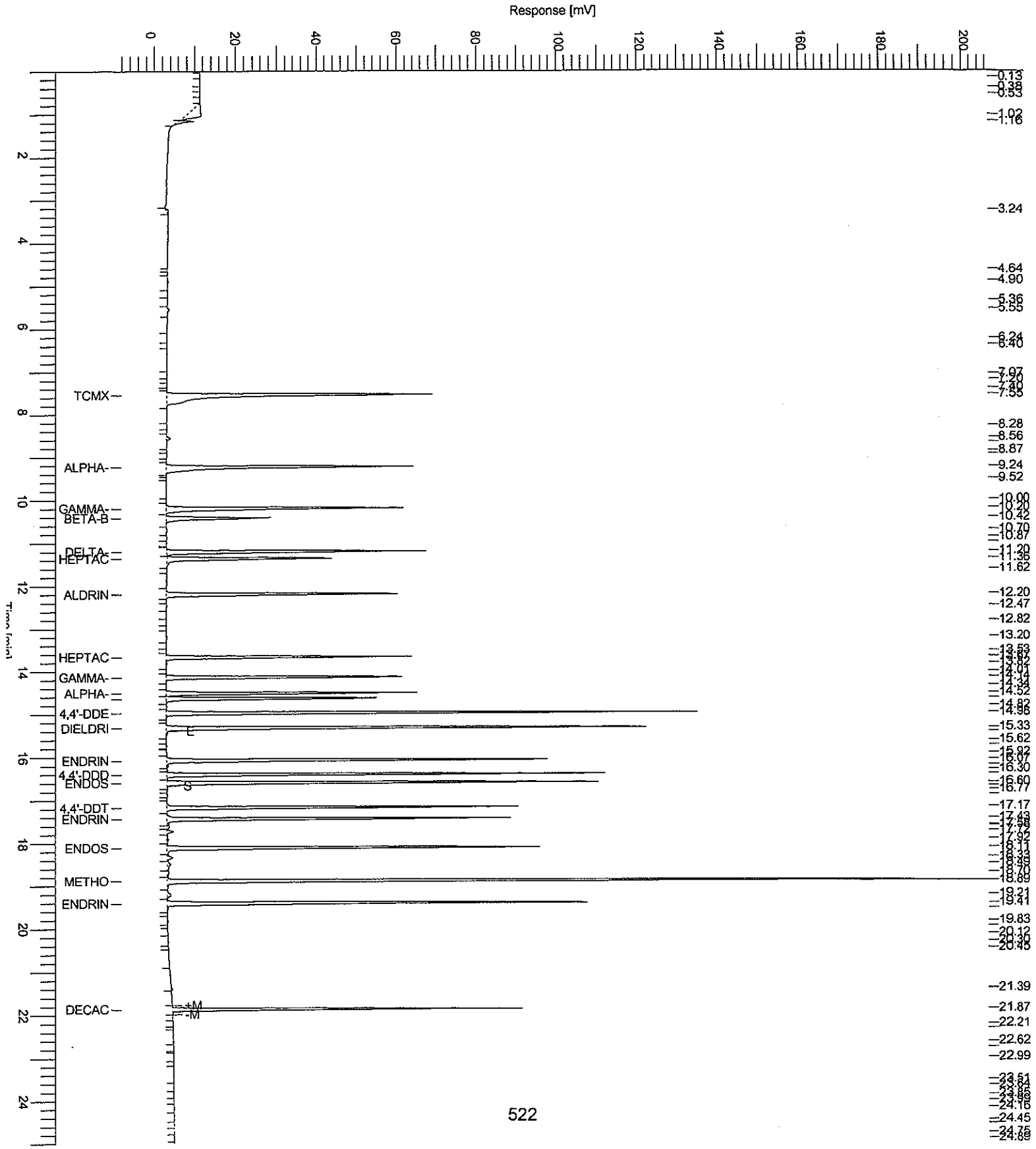
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\286b024p.TX0

DR
10/13/04

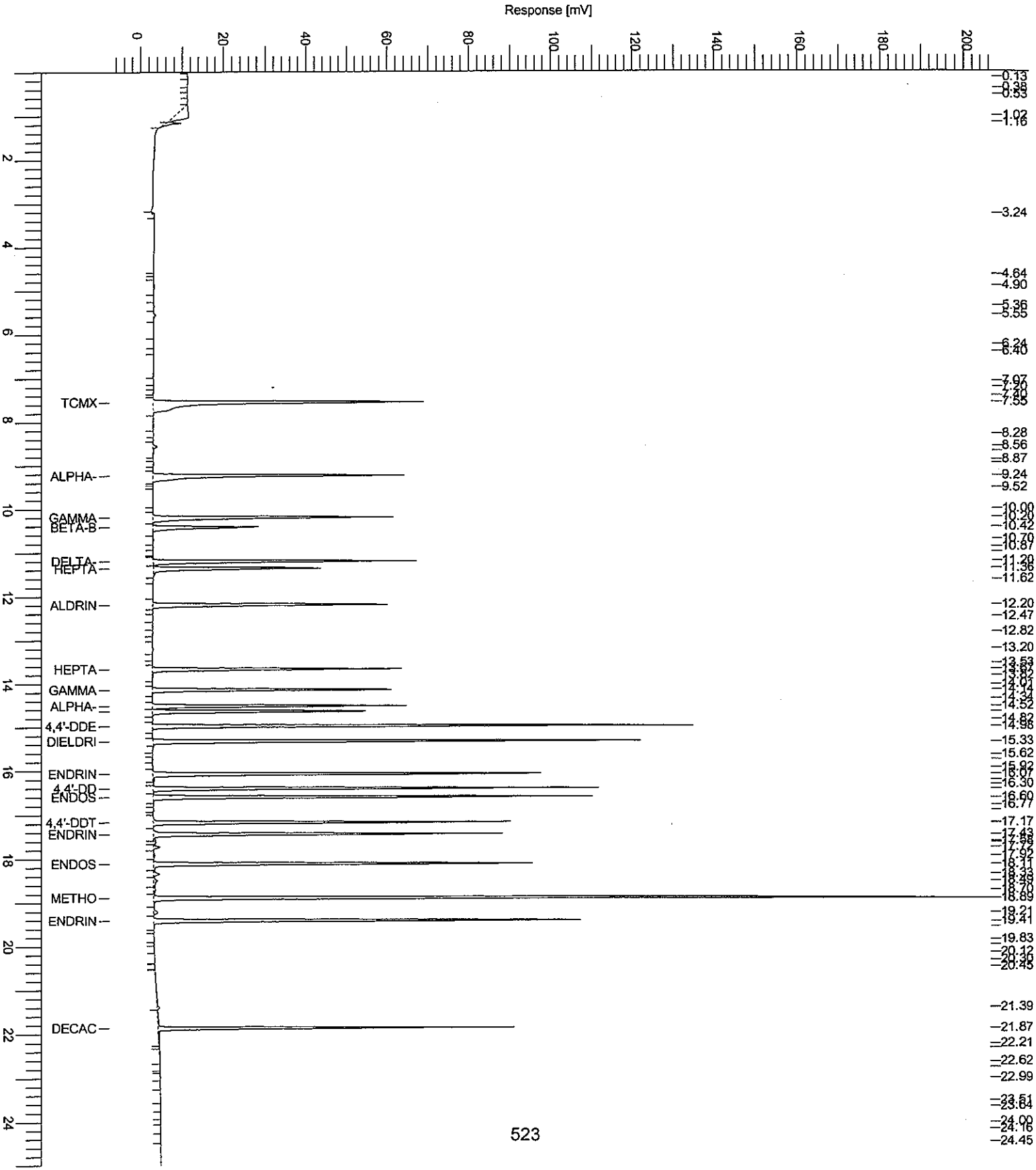
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1632,pest_4 Sample #: level_4 Page 1 of 1
ileName : G:\gc23\CHb\286b024.raw
ate : 10/13/04 1:55:47 PM
lethod : Time of Injection: 10/13/04 1:04:59 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.21 mV High Point : 206.85 mV
lot Offset: -8.21 mV Plot Scale: 215.1 mV



GC23 Rtx-CLPesticides2

mple Name : ical,04ws1632,pest_4 Sample #: level_4
eName : G:\gc23\CHb\286b024
ite : 10/13/04 12:45:47 PM
ethod : gc23ins Time of Injection: 10/13/04 1:04:59 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -7.68 mV High Point : 206.85 mV
ale Factor: 1.0 Plot Offset: -7.68 mV Plot Scale: 214.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1633,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 25

Date : 10/13/04 1:50:14 PM
Data Acquisition Time : 10/13/04 1:35:18 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a025p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.619	432555.00	46.1258	1.000	1	46.13
alpha-BHC	9.238	369677.50	25.4429	1.000	1	25.44
gamma-BHC	10.131	333088.93	25.3906	1.000	1	25.39
beta-BHC	10.397	142121.37	25.5007	1.000	1	25.50
delta-BHC	10.873	329653.59	25.1115	1.000	1	25.11
Heptachlor	11.431	290449.62	26.9956	1.000	1	27.00
Aldrin	12.229	300056.74	24.7894	1.000	1	24.79
Heptachlor epoxide	13.823	274781.70	24.3588	1.000	1	24.36
gamma-Chlordane	14.144	277184.22	24.3376	1.000	1	24.34
alpha-Chlordane	14.480	267716.39	24.2757	1.000	1	24.28
4,4'-DDE	14.698	548074.76	50.2381	1.000	1	50.24
Endosulfan I	14.820	255601.23	24.6185	1.000	1	24.62
Dieldrin	15.429	560851.84	49.6644	1.000	1	49.66
Endrin	16.003	448766.50	51.3726	1.000	1	51.37
4,4'-DDD	16.197	441505.50	46.7470	1.000	1	46.75
Endosulfan II	16.569	466196.97	47.8146	1.000	1	47.81
4,4'-DDT	16.883	429553.67	56.1148	1.000	1	56.11
Endrin aldehyde	17.617	361545.70	47.1848	1.000	1	47.18
Methoxychlor	18.097	1016259.76	300.7044	1.000	1	300.70
Endosulfan sulfate	18.697	411593.49	47.7733	1.000	1	47.77
Endrin ketone	19.369	515624.35	49.1782	1.000	1	49.18
Decachlorobiphenyl	21.400	323955.62	48.7709	1.000	1	48.77
		8796814.46	1092.5100			1092.51

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Report stored in ASCII file: G:\gc23\CHA\286a025p.TX0

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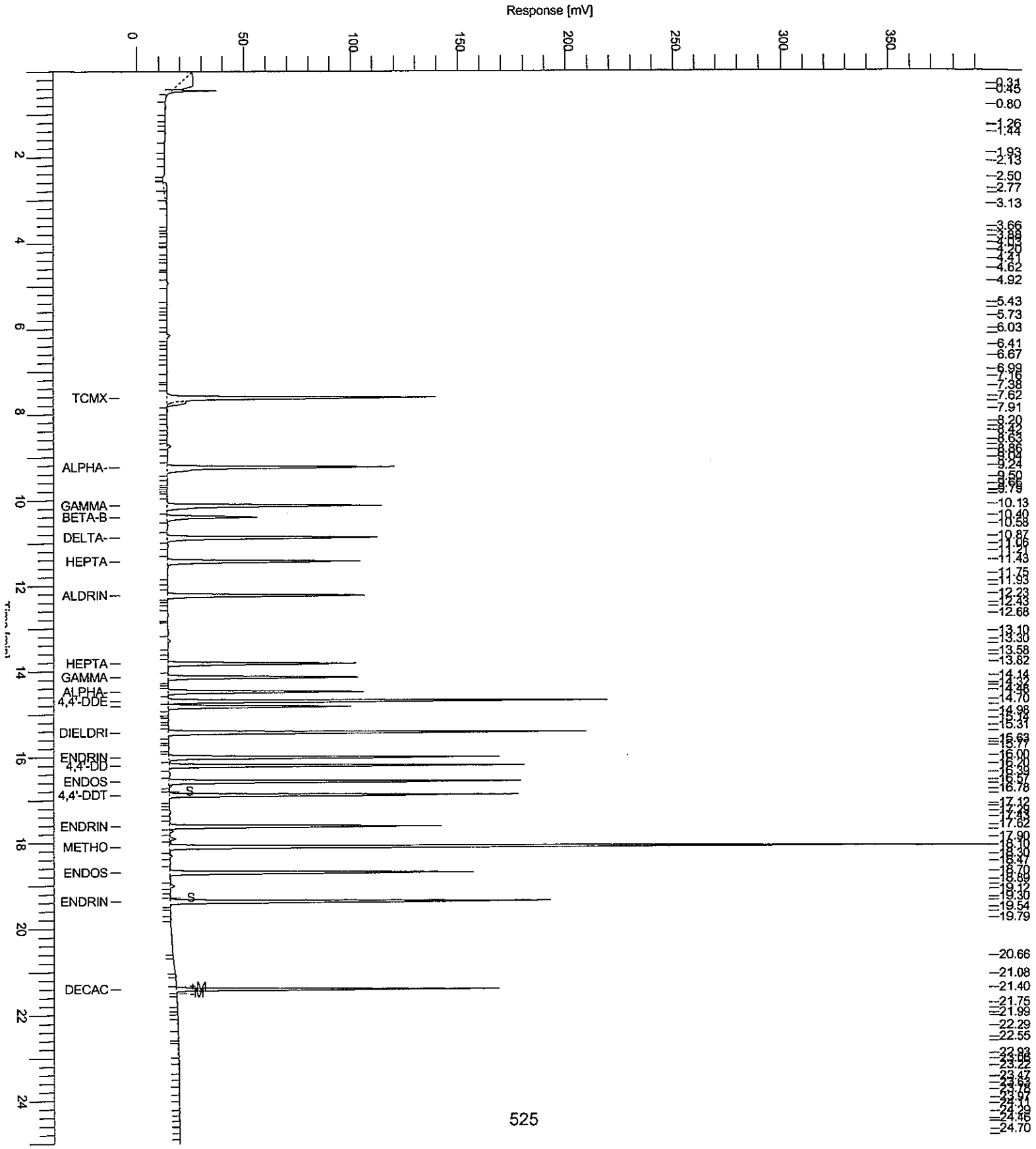
10/13/04

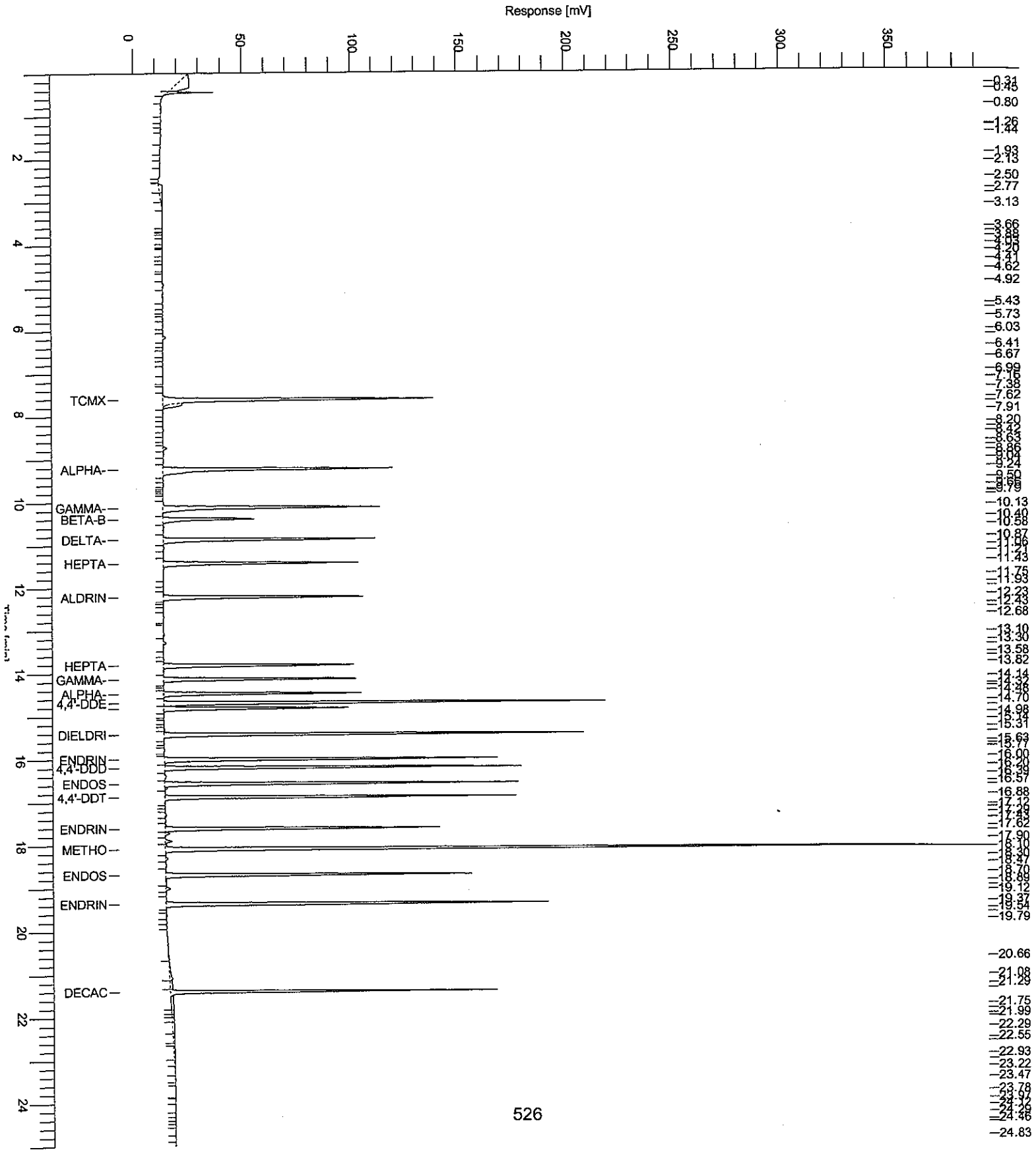
GC23 Rtx-CLPesticides

ample Name : ical,04ws1633,pest_5 Sample #: level_5
leName : G:\gc23\CHa\286a025.raw
ate : 10/13/04 1:50:17 PM
ethod : Time of Injection: 10/13/04 1:35:18 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -8.35 mV High Point : 394.71 mV
ot Offset: -8.35 mV Plot Scale: 403.1 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1633,pest_5 Sample #: level_5 Page 1 of 1
leName : G:\gc23\CHa\286a025.raw
ate : 10/13/04 12:46:16 PM
ethod : gc23ins Time of Injection: 10/13/04 1:35:18 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -7.34 mV High Point : 394.71 mV
cale Factor: 1.0 Plot Offset: -7.34 mV Plot Scale: 402.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1633,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 25

Date : 10/13/04 1:56:18 PM
Data Acquisition Time : 10/13/04 1:35:18 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b025p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	326914.00	34.9285	1.000	1	34.93
alpha-BHC	9.235	247278.50	17.2809	1.000	1	17.28
gamma-BHC	10.199	221038.00	17.0840	1.000	1	17.08
beta-BHC	10.421	95997.55	16.5781	1.000	1	16.58
delta-BHC	11.201	215459.00	16.6185	1.000	1	16.62
Heptachlor	11.364	151495.00	17.6942	1.000	1	17.69
Aldrin	12.196	204474.33	16.8162	1.000	1	16.82
Heptachlor epoxide	13.669	186853.56	16.7920	1.000	1	16.79
gamma-Chlordane	14.145	190003.06	16.4595	1.000	1	16.46
alpha-Chlordane	14.516	184233.03	16.5554	1.000	1	16.56
Endosulfan I	14.644	175125.20	16.7960	1.000	1	16.80
4,4'-DDE	14.981	370299.33	33.8358	1.000	1	33.84
Dieldrin	15.329	378225.00	34.0668	1.000	1	34.07
Endrin	16.077	305357.65	37.3906	1.000	1	37.39
4,4'-DDD	16.402	294595.78	32.0896	1.000	1	32.09
Endosulfan II	16.597	319921.26	33.2070	1.000	1	33.21
4,4'-DDT	17.170	249368.00	37.6304	1.000	1	37.63
Endrin aldehyde	17.435	248205.85	32.4107	1.000	1	32.41
Endosulfan sulfate	18.113	281256.55	32.2850	1.000	1	32.28
Methoxychlor	18.887	569833.90	186.1640	1.000	1	186.16
Endrin ketone	19.411	329430.70	31.8694	1.000	1	31.87
Decachlorobiphenyl	21.866	193596.61	31.7232	1.000	1	31.72
		5738961.84	726.2758			726.28

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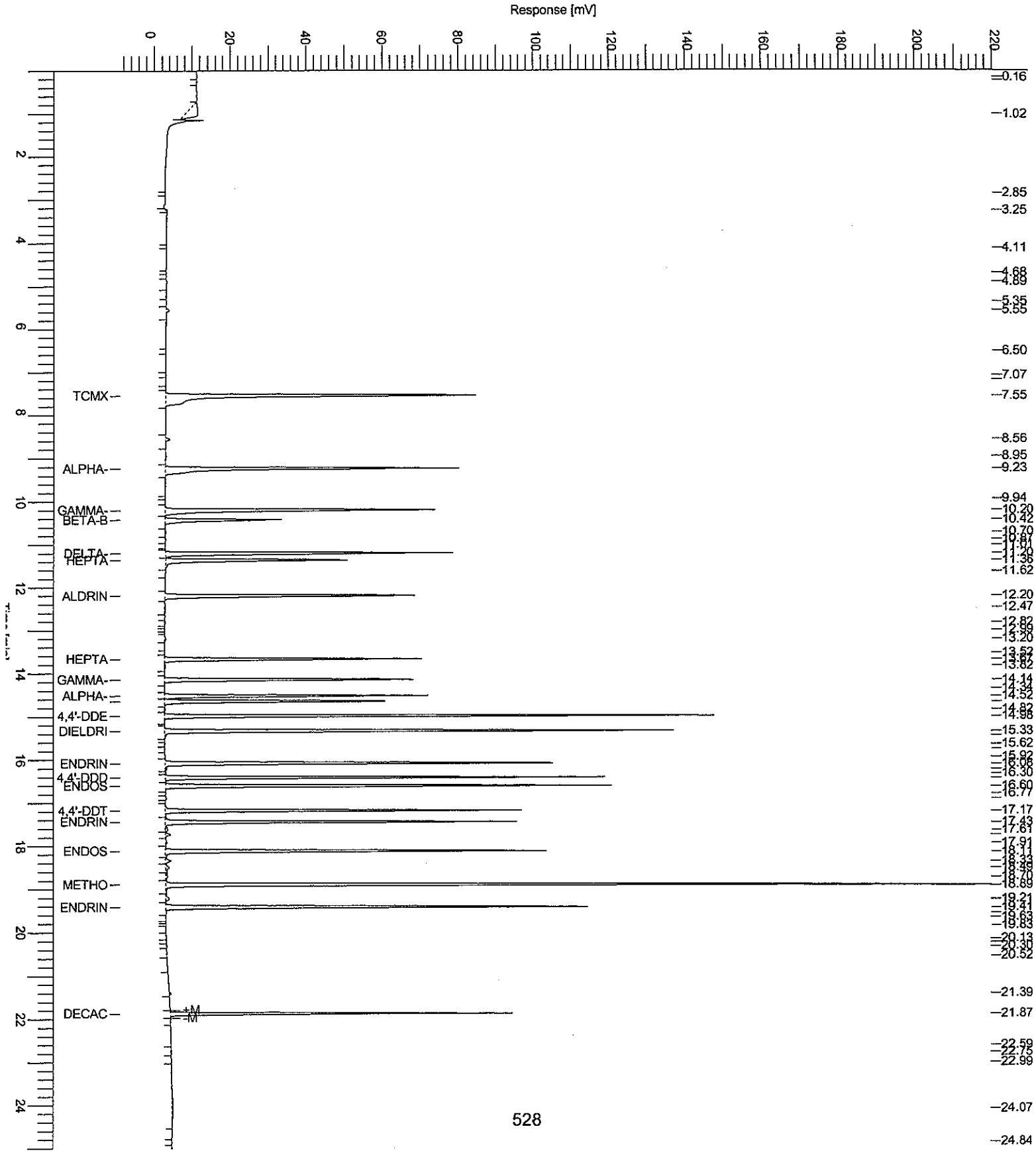
Report stored in ASCII file: G:\gc23\CHB\286b025p.TX0

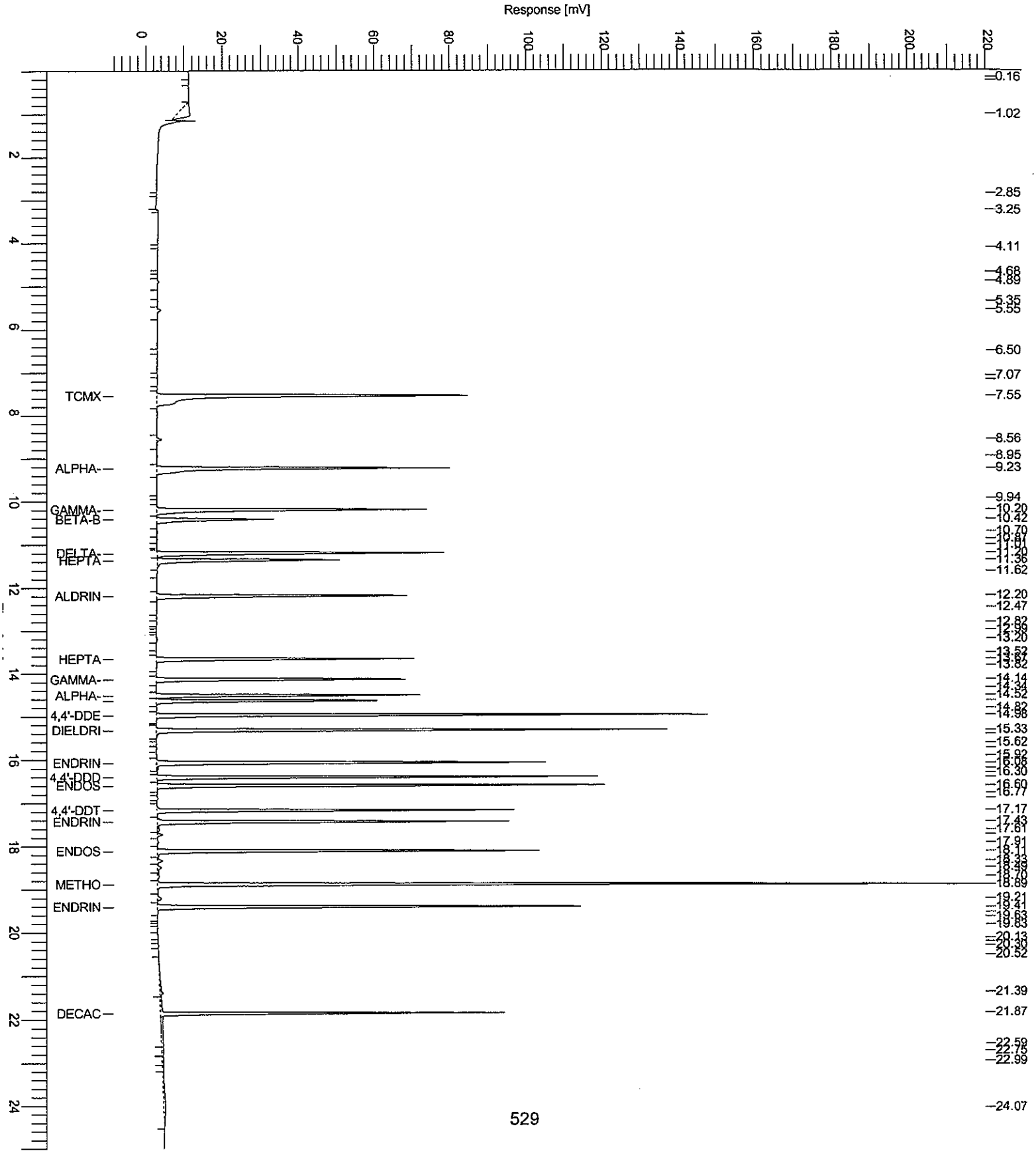
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1633,pest_5 Sample #: level_5 Page 1 of 1
ileName : G:\gc23\CHb\286b025.raw
ate : 10/13/04 1:56:21 PM
lethod : Time of Injection: 10/13/04 1:35:18 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.97 mV High Point : 220.12 mV
lot Offset: -8.97 mV Plot Scale: 229.1 mV



GC23 Rtx-CLPesticides2

ımple Name : ical,04ws1633,pest_5 Sample #: level_5 Page 1 of 1
eName : G:\gc23\CHb\286b025
ıte : 10/13/04 12:45:51 PM
ethod : gc23ins Time of Injection: 10/13/04 1:35:18 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -8.39 mV High Point : 220.12 mV
ale Factor: 1.0 Plot Offset: -8.39 mV Plot Scale: 228.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 26

Date : 10/13/04 1:51:08 PM
Data Acquisition Time : 10/13/04 2:05:42 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a026p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.617	898971.92	95.8625	1.000	1	95.86
alpha-BHC	9.235	701757.73	48.2981	1.000	1	48.30
gamma-BHC	10.128	624746.00	47.6230	1.000	1	47.62
beta-BHC	10.389	252733.03	45.3477	1.000	1	45.35
delta-BHC	10.869	625145.97	47.6207	1.000	1	47.62
Heptachlor	11.423	551270.36	51.2374	1.000	1	51.24
Aldrin	12.221	566975.45	46.8411	1.000	1	46.84
Heptachlor epoxide	13.819	518916.29	46.0007	1.000	1	46.00
gamma-Chlordane	14.136	531972.71	46.7088	1.000	1	46.71
alpha-Chlordane	14.472	508245.40	46.0861	1.000	1	46.09
4,4'-DDE	14.695	1101866.45	101.0002	1.000	1	101.00
Endosulfan I	14.817	479300.60	46.1643	1.000	1	46.16
Dieldrin	15.422	1119079.57	99.0964	1.000	1	99.10
Endrin	15.999	852503.00	97.5905	1.000	1	97.59
4,4'-DDD	16.189	888032.00	94.0256	1.000	1	94.03
Endosulfan II	16.566	941252.22	96.5376	1.000	1	96.54
4,4'-DDT	16.881	886322.66	115.7848	1.000	1	115.78
Endrin aldehyde	17.614	725365.25	94.6664	1.000	1	94.67
Methoxychlor	18.089	1759274.56	520.5574	1.000	1	520.56
Endosulfan sulfate	18.689	816791.37	94.8042	1.000	1	94.80
Endrin ketone	19.366	1034421.46	98.6590	1.000	1	98.66
Decachlorobiphenyl	21.399	639289.55	96.2439	1.000	1	96.24
		17024233.56	2076.7564			2076.76

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Report stored in ASCII file: G:\gc23\CHA\286a026p.TX0

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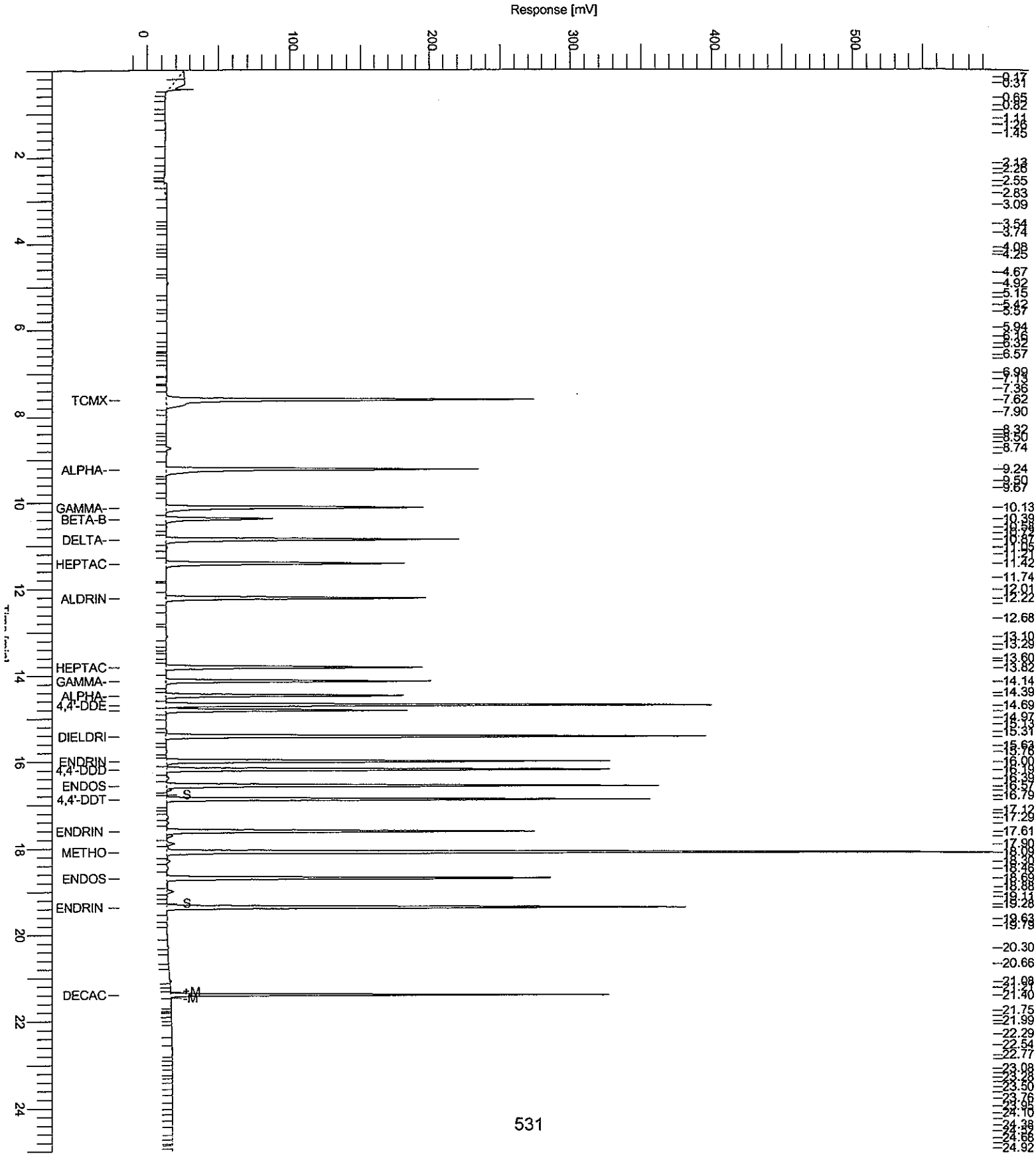
10/13/04

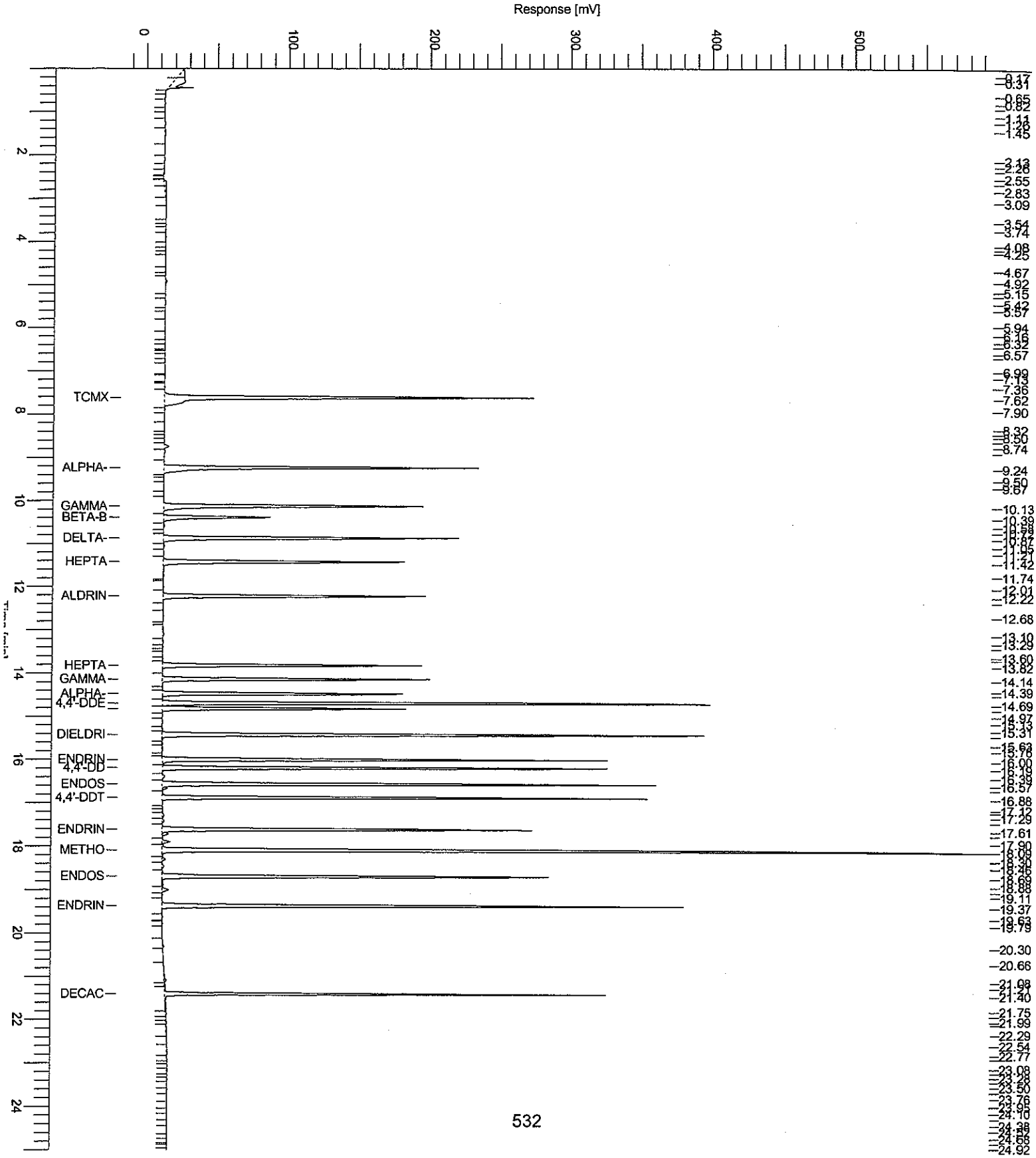
GC23 Rtx-CLPesticides

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
leName : G:\gc23\CHa\286a026.raw
ate : 10/13/04 1:51:12 PM
ethod :
Time of Injection: 10/13/04 2:05:42 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -19.11 mV High Point : 596.42 mV
ot Offset: -19.11 mV Plot Scale: 615.5 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
ileName : G:\gc23\CHa\286a026.raw
ate : 10/13/04 12:46:19 PM
lethod : gc23ins Time of Injection: 10/13/04 2:05:42 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -17.57 mV High Point : 596.42 mV
cale Factor: 1.0 Plot Offset: -17.57 mV Plot Scale: 614.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 26

Date : 10/13/04 1:57:04 PM
Data Acquisition Time : 10/13/04 2:05:42 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b026p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

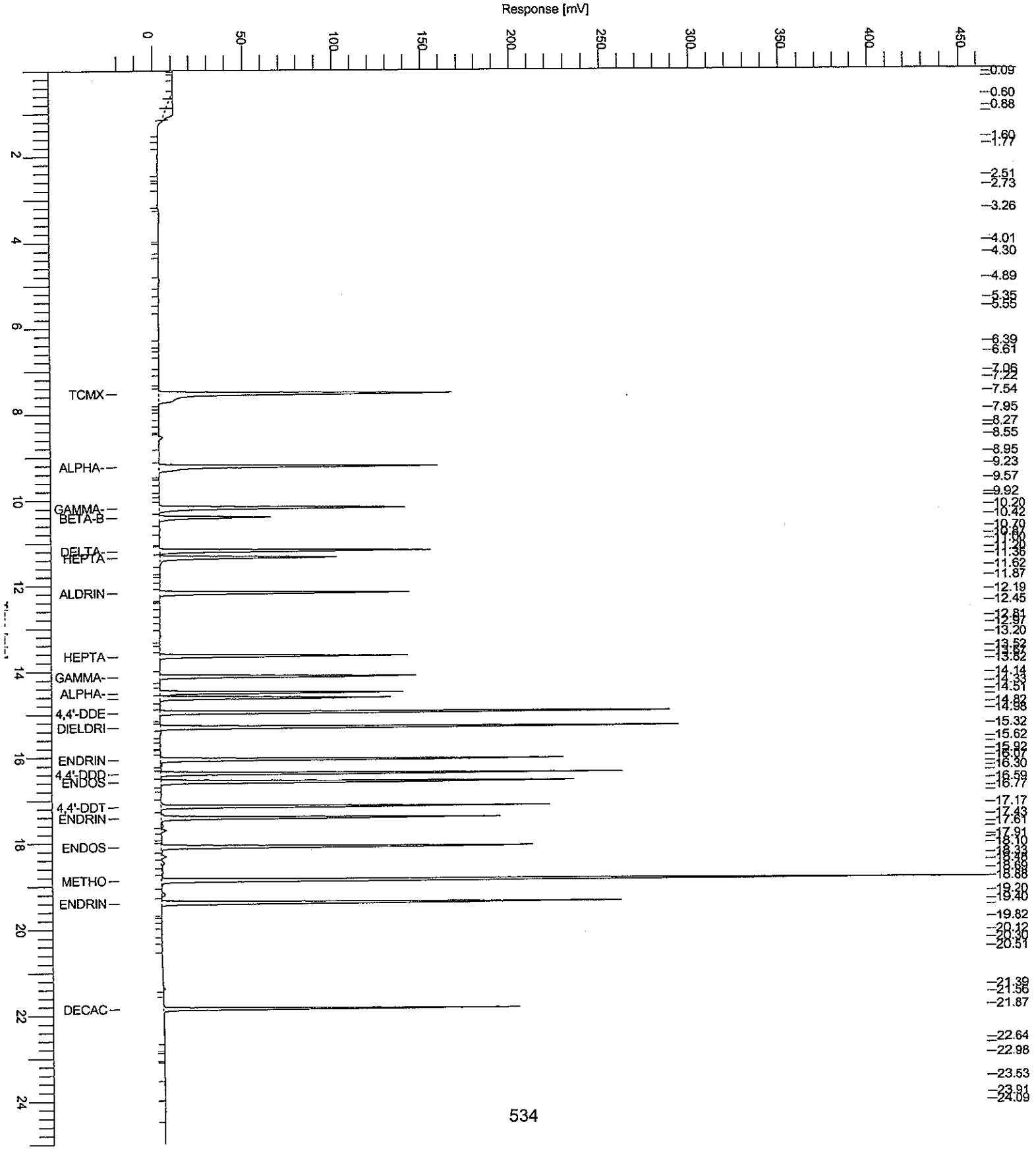
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.540	641805.00	68.5724	1.000	1	68.57
alpha-BHC	9.233	494701.00	34.5718	1.000	1	34.57
gamma-BHC	10.196	442879.29	34.2302	1.000	1	34.23
beta-BHC	10.418	186734.79	32.2478	1.000	1	32.25
delta-BHC	11.199	437856.00	33.7721	1.000	1	33.77
Heptachlor	11.356	314305.96	36.7100	1.000	1	36.71
Aldrin	12.188	413729.38	34.0256	1.000	1	34.03
Heptachlor epoxide	13.666	376329.48	33.8196	1.000	1	33.82
gamma-Chlordane	14.136	390940.35	33.8663	1.000	1	33.87
alpha-Chlordane	14.513	376752.92	33.8555	1.000	1	33.86
Endosulfan I	14.636	354358.48	33.9860	1.000	1	33.99
4,4'-DDE	14.977	794645.00	72.6101	1.000	1	72.61
Dieldrin	15.320	795066.93	71.6119	1.000	1	71.61
Endrin	16.069	611929.65	74.9300	1.000	1	74.93
4,4'-DDD	16.399	625093.68	68.0900	1.000	1	68.09
Endosulfan II	16.589	666471.53	69.1780	1.000	1	69.18
4,4'-DDT	17.168	545397.50	82.3022	1.000	1	82.30
Endrin aldehyde	17.432	515637.59	67.3318	1.000	1	67.33
Endosulfan sulfate	18.105	589802.74	67.7025	1.000	1	67.70
Methoxychlor	18.884	1206896.48	394.2914	1.000	1	394.29
Endrin ketone	19.403	701515.50	67.8652	1.000	1	67.87
Decachlorobiphenyl	21.866	427102.82	69.9860	1.000	1	69.99
		11909952.09	1515.5564			1515.56

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\286b026p.TX0

GC23 Rtx-CLPesticides2

ımple Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
eName : G:\gc23\CHb\286b026
ıte : 10/13/04 12:45:54 PM
ethod : gc23ins Time of Injection: 10/13/04 2:05:42 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -20.59 mV High Point : 462.73 mV
ale Factor: 1.0 Plot Offset: -20.59 mV Plot Scale: 483.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 27

Date : 10/13/04 1:51:42 PM
Data Acquisition Time : 10/13/04 2:36:03 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a027p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.620	1734127.52	184.9198	1.000	1	184.92
alpha-BHC	9.237	1407315.00	96.8577	1.000	1	96.86
gamma-BHC	10.131	1261450.00	96.1575	1.000	1	96.16
beta-BHC	10.396	475262.50	85.2761	1.000	1	85.28
delta-BHC	10.872	1269057.91	96.6708	1.000	1	96.67
Heptachlor	11.429	1114016.18	103.5413	1.000	1	103.54
Aldrin	12.222	1134323.50	93.7129	1.000	1	93.71
Heptachlor epoxide	13.820	1029165.50	91.2332	1.000	1	91.23
gamma-Chlordane	14.138	1060679.00	93.1308	1.000	1	93.13
alpha-Chlordane	14.478	1018507.00	92.3551	1.000	1	92.36
4,4'-DDE	14.696	1936338.77	177.4904	1.000	1	177.49
Endosulfan I	14.818	942834.88	90.8100	1.000	1	90.81
Dieldrin	15.427	1946871.61	172.3988	1.000	1	172.40
Endrin	16.001	1553977.50	177.8919	1.000	1	177.89
4,4'-DDD	16.195	1603480.00	169.7779	1.000	1	169.78
Endosulfan II	16.567	1674626.76	171.7547	1.000	1	171.75
4,4'-DDT	16.882	1609962.85	210.3176	1.000	1	210.32
Endrin aldehyde	17.615	1367747.96	178.5029	1.000	1	178.50
Methoxychlor	18.094	2753140.25	814.6355	1.000	1	814.64
Endosulfan sulfate	18.695	1527607.27	177.3080	1.000	1	177.31
Endrin ketone	19.367	1795325.00	171.2309	1.000	1	171.23
Decachlorobiphenyl	21.400	1191020.85	179.3060	1.000	1	179.31
		31406837.81	3725.2798			3725.28

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\286a027p.TX0

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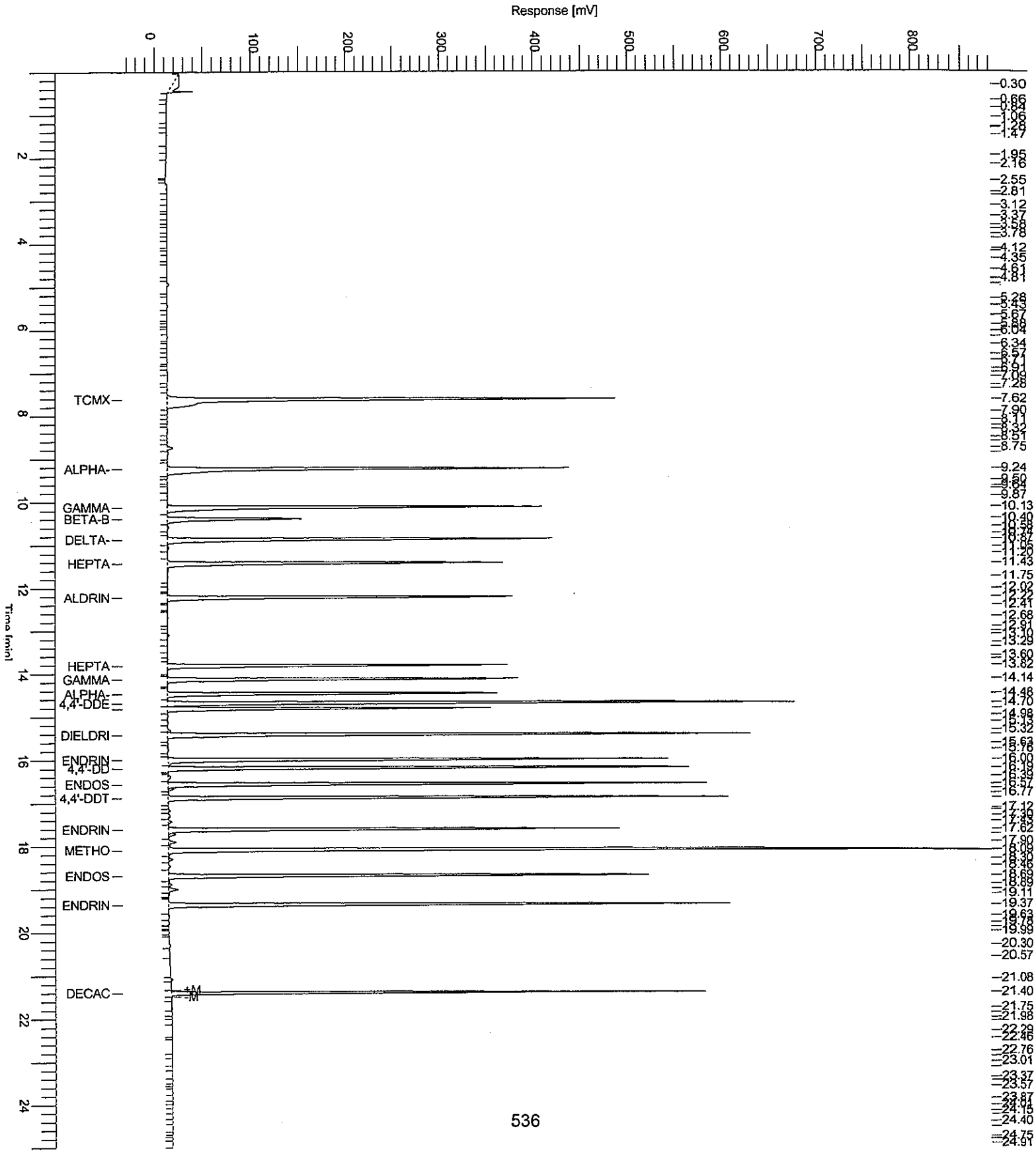
10/13/04

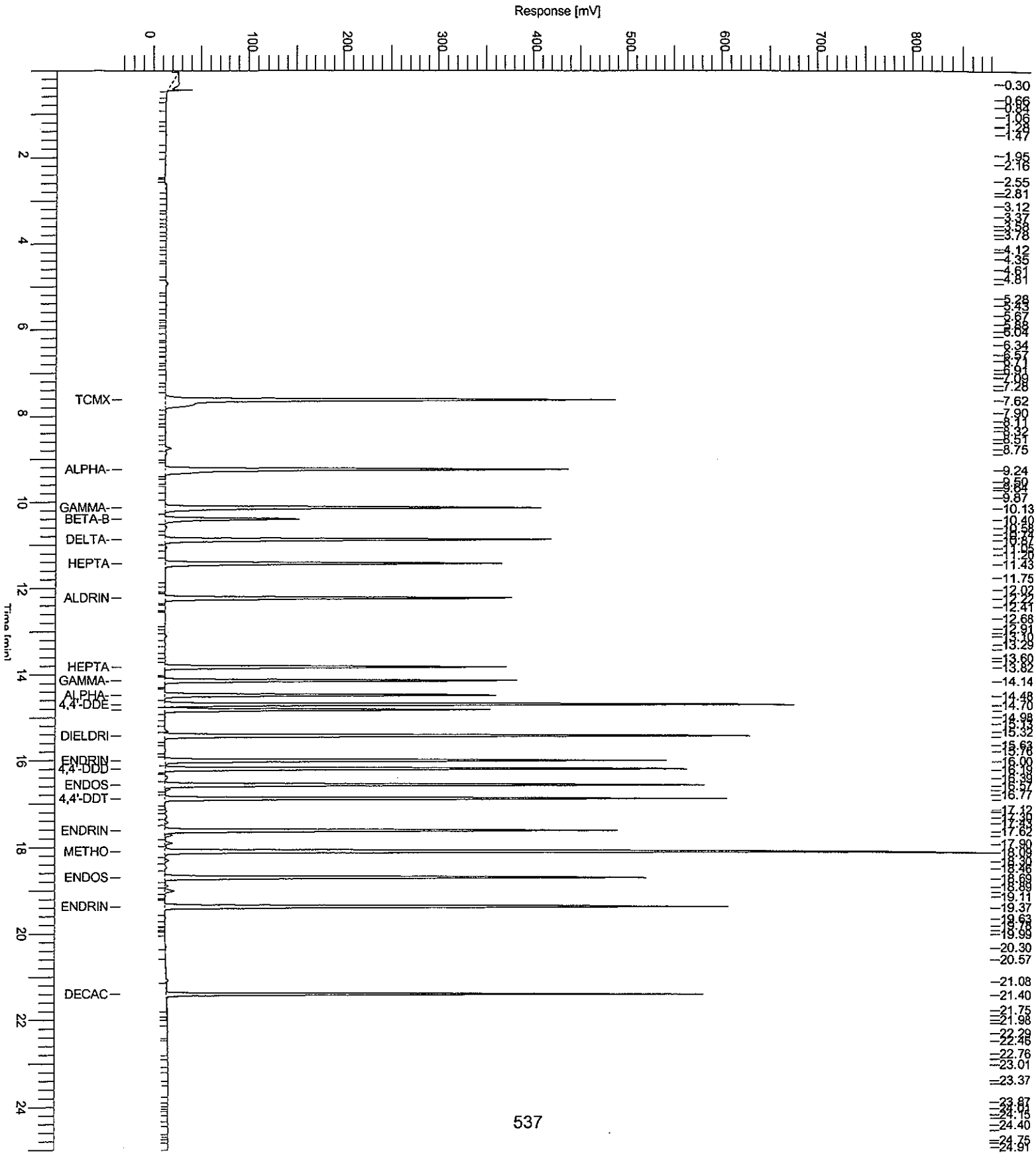
GC23 Rtx-CLPesticides

ample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
leName : G:\gc23\CHa\286a027.raw
ate : 10/13/04 1:51:45 PM
ethod :
Time of Injection: 10/13/04 2:36:03 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -34.27 mV High Point : 883.20 mV
lot Offset: -34.27 mV Plot Scale: 917.5 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
leName : G:\gc23\CHa\286a027.raw
ate : 10/13/04 12:46:22 PM
lethod : gc23ins Time of Injection: 10/13/04 2:36:03 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -31.98 mV High Point : 883.20 mV
cale Factor: 1.0 Plot Offset: -31.98 mV Plot Scale: 915.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 27

Date : 10/13/04 1:57:50 PM
Data Acquisition Time : 10/13/04 2:36:03 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b027p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.545	1329799.00	142.0799	1.000	1	142.08
alpha-BHC	9.233	1056899.61	73.8606	1.000	1	73.86
gamma-BHC	10.198	940532.53	72.6938	1.000	1	72.69
beta-BHC	10.419	374601.00	64.6910	1.000	1	64.69
delta-BHC	11.199	941168.00	72.5929	1.000	1	72.59
Heptachlor	11.357	667371.00	77.9470	1.000	1	77.95
Aldrin	12.189	873600.97	71.8461	1.000	1	71.85
Heptachlor epoxide	13.667	780442.90	70.1360	1.000	1	70.14
gamma-Chlordane	14.137	830187.13	71.9173	1.000	1	71.92
alpha-Chlordane	14.514	792607.07	71.2248	1.000	1	71.22
Endosulfan I	14.637	737083.53	70.6925	1.000	1	70.69
4,4'-DDE	14.979	1527135.50	139.5409	1.000	1	139.54
Dieldrin	15.322	1519485.88	136.8605	1.000	1	136.86
Endrin	16.070	1245127.23	152.4642	1.000	1	152.46
4,4'-DDD	16.400	1250685.18	136.2341	1.000	1	136.23
Endosulfan II	16.595	1317038.84	136.7051	1.000	1	136.71
4,4'-DDT	17.168	1164137.00	175.6718	1.000	1	175.67
Endrin aldehyde	17.433	1060810.03	138.5203	1.000	1	138.52
Endosulfan sulfate	18.106	1228655.58	141.0354	1.000	1	141.04
Methoxychlor	18.885	2160302.77	705.7680	1.000	1	705.77
Endrin ketone	19.404	1377212.00	133.2327	1.000	1	133.23
Decachlorobiphenyl	21.867	889439.87	145.7456	1.000	1	145.75
		24064322.63	3001.4603			3001.46

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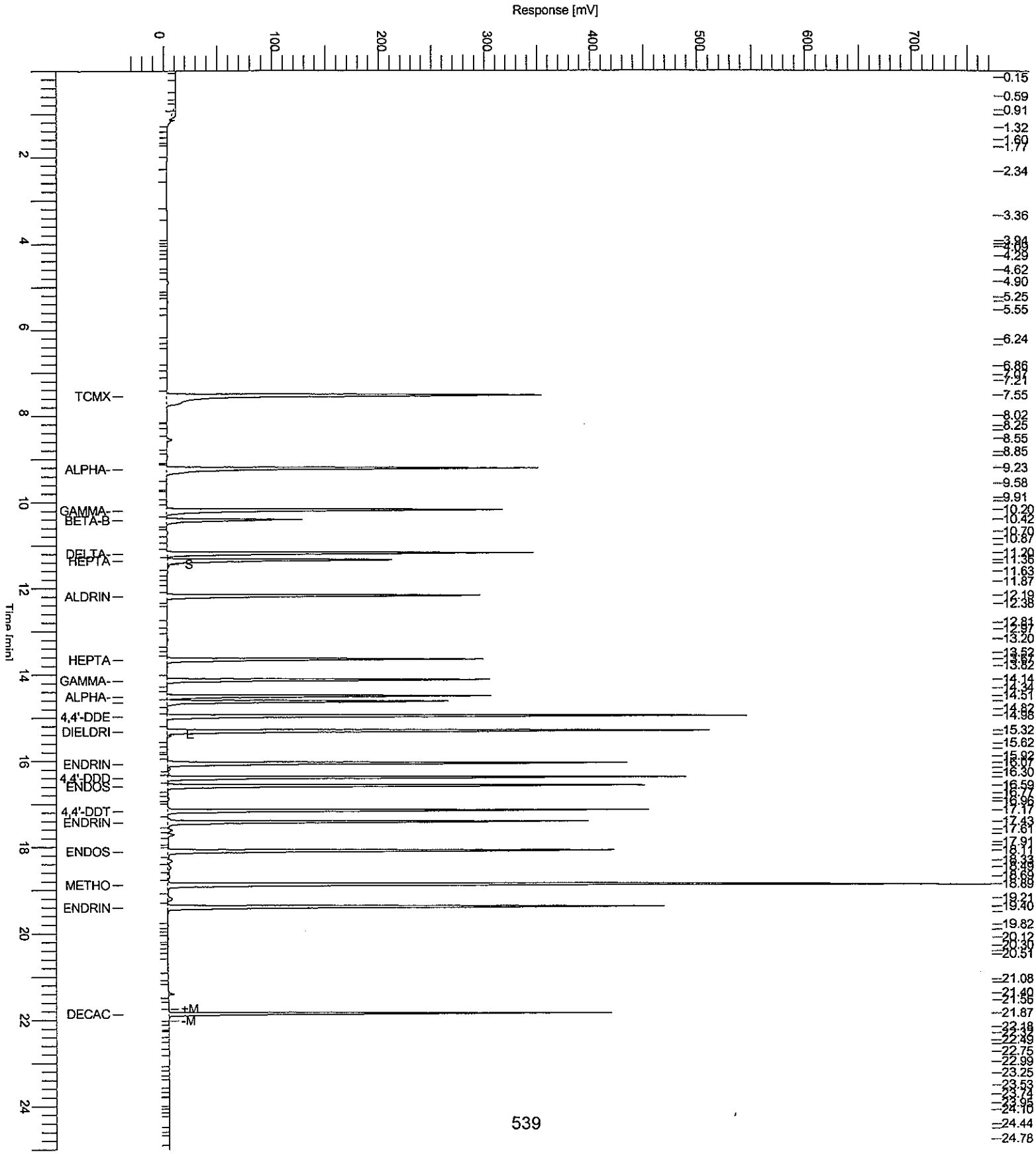
Report stored in ASCII file: G:\gc23\CHB\286b027p.TX0

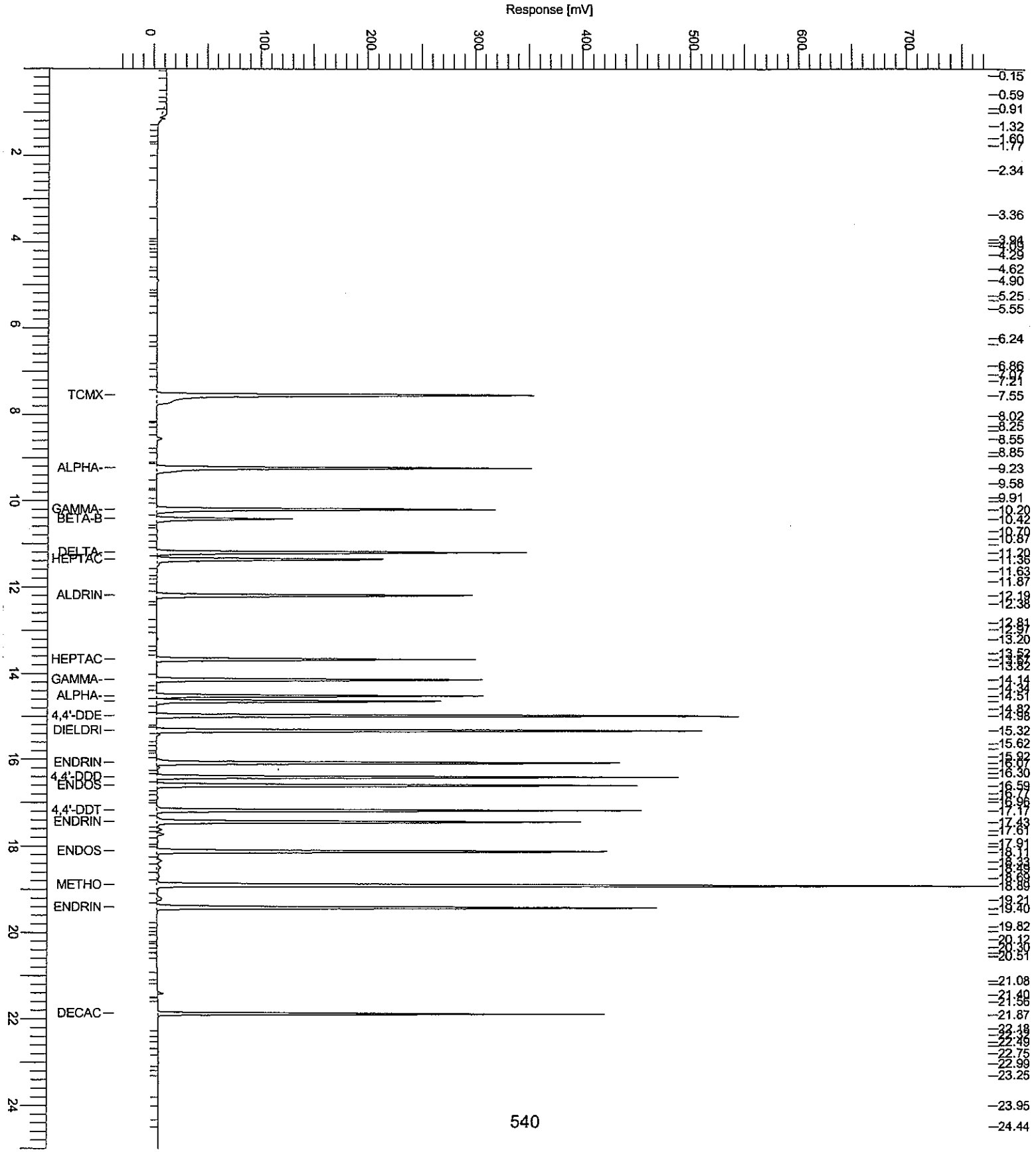
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
ileName : G:\gc23\CHb\286b027.raw
ate : 10/13/04 1:57:53 PM
lethod : Time of Injection: 10/13/04 2:36:03 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -38.21 mV High Point : 774.34 mV
lot Offset: -38.21 mV Plot Scale: 812.5 mV



GC23 Rtx-CLPesticides2

ımple Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
eName : G:\gc23\CHb\286b027
ıte : 10/13/04 12:45:58 PM
ethod : gc23ins Time of Injection: 10/13/04 2:36:03 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -36.18 mV High Point : 774.34 mV
:ale Factor: 1.0 Plot Offset: -36.18 mV Plot Scale: 810.5 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : GC23
eqnum : 804412857029
alnum : 804412857001
tandards: 04WS1584

Run Name :
Filename : 286_029
Caldate : 12-OCT-2004

Injected : 13-OCT-2004 03:36
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	24.29416	pg	-3	15	
gamma-BHC	A	25.00000	24.05281	pg	-4	15	
beta-BHC	A	25.00000	23.54969	pg	-6	15	
delta-BHC	A	25.00000	24.44955	pg	-2	15	
Heptachlor	A	25.00000	24.41275	pg	-2	15	
Aldrin	A	25.00000	24.43843	pg	-2	15	
Heptachlor epoxide	A	25.00000	23.78902	pg	-5	15	
gamma-Chlordane	A	25.00000	23.50712	pg	-6	15	
alpha-Chlordane	A	25.00000	24.05649	pg	-4	15	
4,4'-DDE	A	25.00000	24.33904	pg	-3	15	
Endosulfan I	A	25.00000	24.33158	pg	-3	15	
Dieldrin	A	25.00000	24.21262	pg	-3	15	
Endrin	A	25.00000	23.57171	pg	-6	15	
4,4'-DDD	A	25.00000	23.87743	pg	-4	15	
Endosulfan II	A	25.00000	24.47444	pg	-2	15	
4,4'-DDT	A	25.00000	24.41987	pg	-2	15	
Endrin aldehyde	A	25.00000	24.26320	pg	-3	15	
Methoxychlor	A	25.00000	27.59866	pg	10	15	
Endosulfan sulfate	A	25.00000	24.95680	pg	0	15	
Endrin ketone	A	25.00000	24.51270	pg	-2	15	
TCMX	A	25.00000	27.21844	pg	9	15	
Decachlorobiphenyl	A	25.00000	23.43709	pg	-6	15	
alpha-BHC	B	25.00000	24.69843	pg	-1	15	
gamma-BHC	B	25.00000	24.49463	pg	-2	15	
beta-BHC	B	25.00000	23.49018	pg	-6	15	
delta-BHC	B	25.00000	25.05669	pg	0	15	
Heptachlor	B	25.00000	24.96263	pg	0	15	
Aldrin	B	25.00000	25.03742	pg	0	15	
Heptachlor epoxide	B	25.00000	24.32494	pg	-3	15	
gamma-Chlordane	B	25.00000	24.07309	pg	-4	15	
alpha-Chlordane	B	25.00000	24.20820	pg	-3	15	
4,4'-DDE	B	25.00000	24.49877	pg	-2	15	
Endosulfan I	B	25.00000	24.40413	pg	-2	15	
Dieldrin	B	25.00000	24.52258	pg	-2	15	
Endrin	B	25.00000	24.22856	pg	-3	15	
4,4'-DDD	B	25.00000	24.30896	pg	-3	15	
Endosulfan II	B	25.00000	24.67986	pg	-1	15	
4,4'-DDT	B	25.00000	24.74983	pg	-1	15	
Endrin aldehyde	B	25.00000	23.89085	pg	-4	15	
Methoxychlor	B	25.00000	27.74818	pg	11	15	
Endosulfan sulfate	B	25.00000	24.67252	pg	-1	15	
Endrin ketone	B	25.00000	24.66560	pg	-1	15	
TCMX	B	25.00000	27.01087	pg	8	15	
Decachlorobiphenyl	B	25.00000	23.69342	pg	-5	15	

10/14/04

540 a

10/13/04

Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1584
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 29

Date : 10/13/04 2:10:31 PM
Data Acquisition Time : 10/13/04 3:36:42 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\286a029p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.617	250171.21	27.2184	1.000	1	27.22
alpha-BHC	9.236	346952.50	24.2942	1.000	1	24.29
gamma-BHC	10.129	312091.96	24.0528	1.000	1	24.05
beta-BHC	10.390	131502.00	23.5497	1.000	1	23.55
delta-BHC	10.870	316235.89	24.4496	1.000	1	24.45
Heptachlor	11.428	275677.94	24.4128	1.000	1	24.41
Aldrin	12.222	288805.90	24.4384	1.000	1	24.44
Heptachlor epoxide	13.820	260972.74	23.7890	1.000	1	23.79
gamma-Chlordane	14.137	260630.00	23.5071	1.000	1	23.51
alpha-Chlordane	14.478	256756.50	24.0565	1.000	1	24.06
4,4'-DDE	14.696	256453.92	24.3390	1.000	1	24.34
Endosulfan I	14.818	246433.08	24.3316	1.000	1	24.33
Dieldrin	15.427	263891.80	24.2126	1.000	1	24.21
Endrin	16.001	203601.00	23.5717	1.000	1	23.57
4,4'-DDD	16.195	207329.00	23.8774	1.000	1	23.88
Endosulfan II	16.567	227956.13	24.4744	1.000	1	24.47
4,4'-DDT	16.882	203977.50	24.4199	1.000	1	24.42
Endrin aldehyde	17.616	181111.87	24.2632	1.000	1	24.26
Methoxychlor	18.095	101616.39	27.5987	1.000	1	27.60
Endosulfan sulfate	18.695	207492.38	24.9568	1.000	1	24.96
Endrin ketone	19.368	252821.49	24.5127	1.000	1	24.51
Decachlorobiphenyl	21.400	152110.56	23.4371	1.000	1	23.44
		5204591.76	537.7636			537.76

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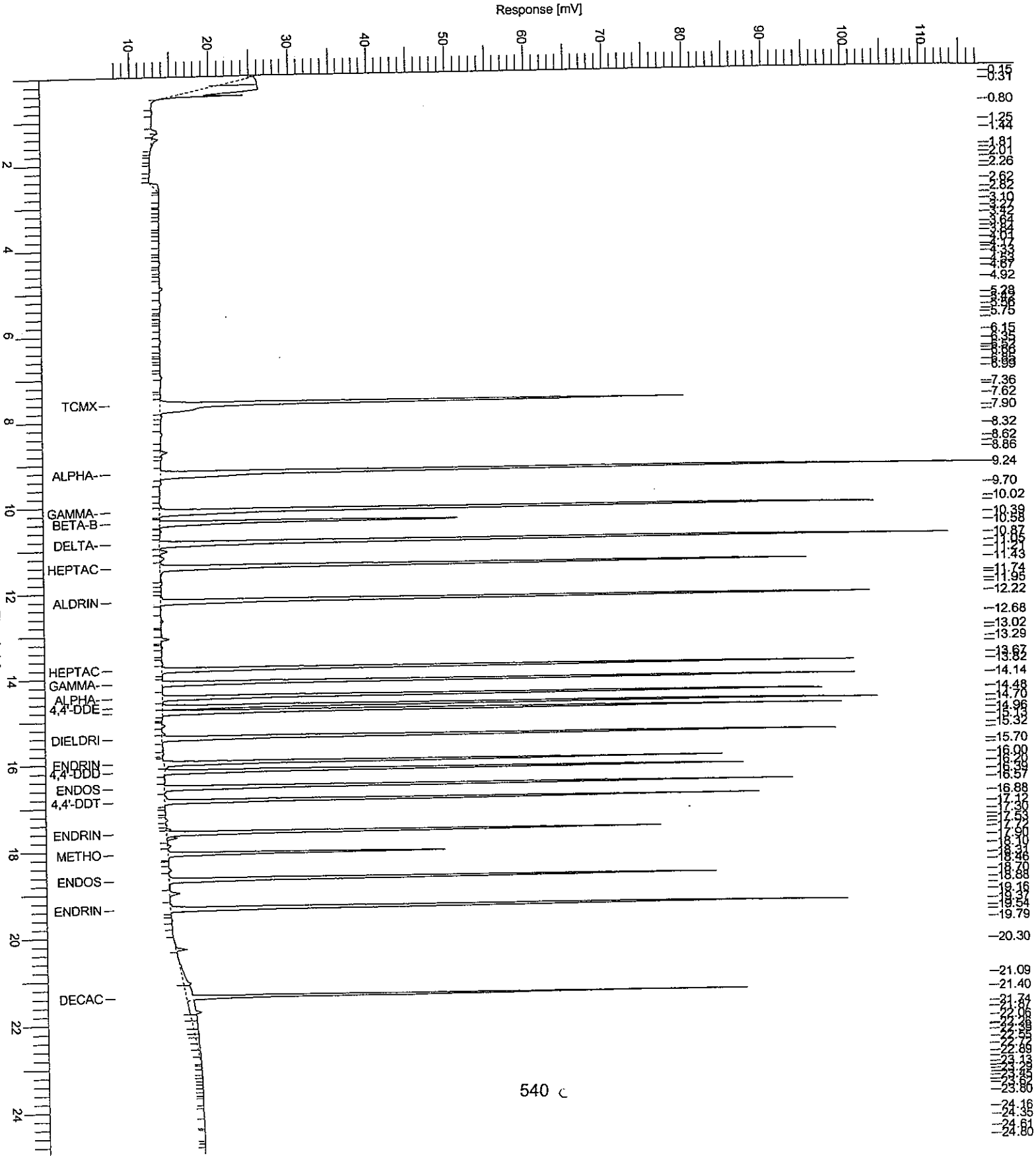
Report stored in ASCII file: G:\gc23\CHA\286a029p.TX0

GC23 Rtx-CLPesticides

mple Name : icv,04ws1584 Sample #: 25ug/L Page 1 of 1
eName : G:\gc23\CHa\286a029.raw
ite : 10/13/04 2:04:02 PM Time of Injection: 10/13/04 3:36:42 AM
thod : gc23ins
art Time : 0.00 min End Time : 25.00 min Low Point : 7.15 mV High Point : 117.39 mV
ale Factor: 1.0 Plot Offset: 7.15 mV Plot Scale: 110.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1584
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 29

Date : 10/13/04 2:09:46 PM
Data Acquisition Time : 10/13/04 3:36:42 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\286b029p.rst
Sequence File : G:\gc23\Files\286.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.541	184452.00	27.0109	1.000	1	27.01
alpha-BHC	9.234	251535.00	24.6984	1.000	1	24.70
gamma-BHC	10.198	225477.00	24.4946	1.000	1	24.49
beta-BHC	10.420	95585.00	23.4902	1.000	1	23.49
delta-BHC	11.200	226735.50	25.0567	1.000	1	25.06
Heptachlor	11.362	157538.00	24.9626	1.000	1	24.96
Aldrin	12.190	216396.21	25.0374	1.000	1	25.04
Heptachlor epoxide	13.667	194396.00	24.3249	1.000	1	24.32
gamma-Chlordane	14.138	197538.24	24.0731	1.000	1	24.07
alpha-Chlordane	14.515	193024.00	24.2082	1.000	1	24.21
Endosulfan I	14.638	183394.00	24.4041	1.000	1	24.40
4,4'-DDE	14.980	194002.00	24.4988	1.000	1	24.50
Dieldrin	15.327	198518.72	24.5226	1.000	1	24.52
Endrin	16.071	157677.33	24.2286	1.000	1	24.23
4,4'-DDD	16.401	156819.15	24.3090	1.000	1	24.31
Endosulfan II	16.596	173163.00	24.6799	1.000	1	24.68
4,4'-DDT	17.169	135706.00	24.7498	1.000	1	24.75
Endrin aldehyde	17.434	133656.22	23.8908	1.000	1	23.89
Endosulfan sulfate	18.112	154973.59	24.6725	1.000	1	24.67
Methoxychlor	18.885	70175.15	27.7482	1.000	1	27.75
Endrin ketone	19.405	184838.00	24.6656	1.000	1	24.67
Decachlorobiphenyl	21.867	111944.79	23.6934	1.000	1	23.69
		3797544.89	543.4203			543.42

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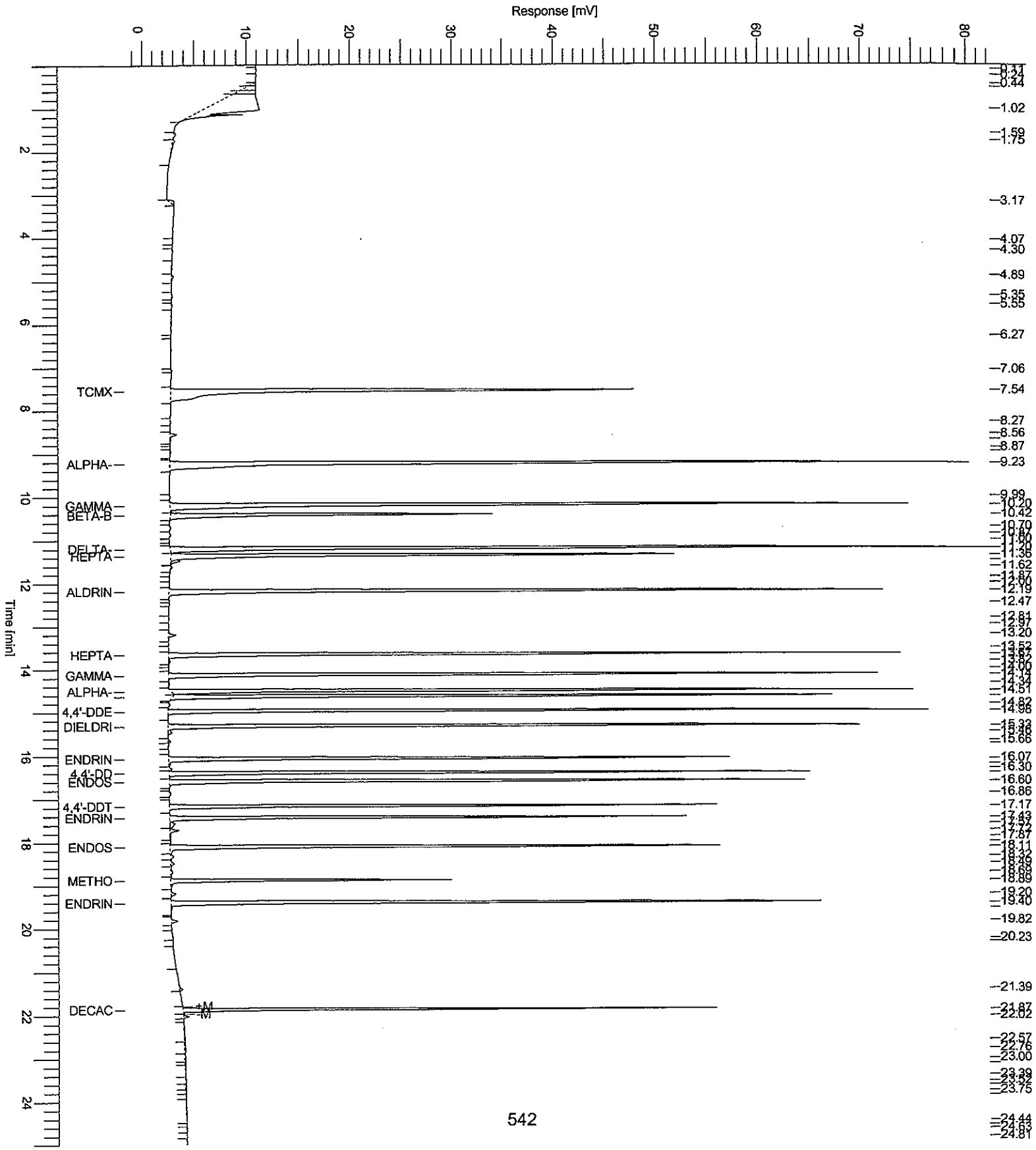
Report stored in ASCII file: G:\gc23\CHB\286b029p.TX0

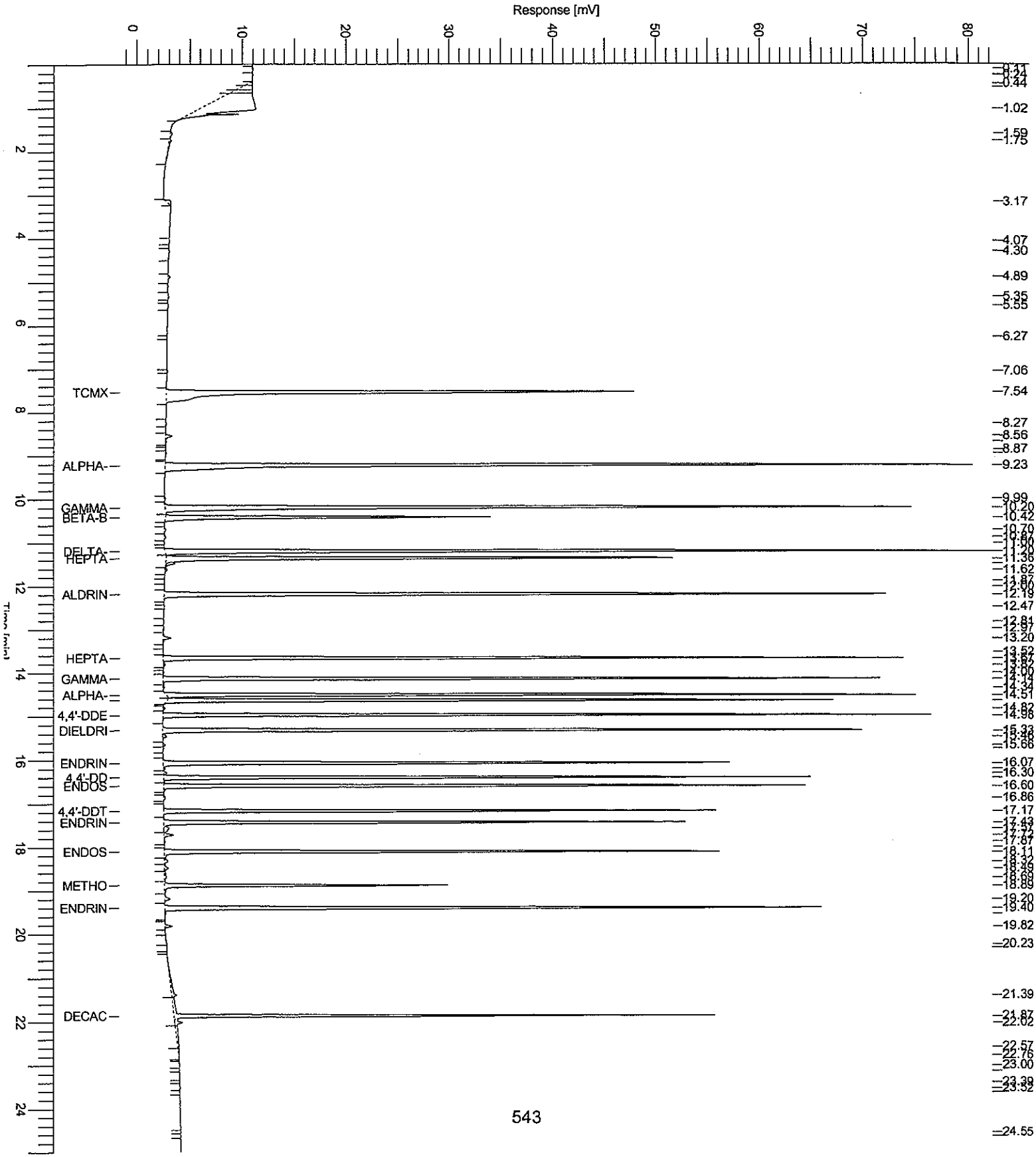
GC23 Rtx-CLPesticides2

Sample Name : icv,04ws1584 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc23\CHb\286b029.raw
Date : 10/13/04 2:09:50 PM
Method :
Time of Injection: 10/13/04 3:36:42 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.78 mV High Point : 82.36 mV
Plot Offset: -1.78 mV Plot Scale: 84.1 mV



GC23 Rtx-CLPesticides2

ample Name : icv,04ws1584 Sample #: 25ug/L Page 1 of 1
leName : G:\gc23\CHb\286b029
ate : 10/13/04 2:03:55 PM
ethod : gc23ins Time of Injection: 10/13/04 3:36:42 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.57 mV High Point : 82.36 mV
cale Factor: 1.0 Plot Offset: -1.57 mV Plot Scale: 83.9 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234403952049 Run Name: Injected: 08-OCT-2004 19:32
Filename: 280_049 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	370224.25
Endrin aldehyde	A	1698.51
Endrin ketone	A	13132.03

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	493488.82
4,4'-DDE	A	2179.66
4,4'-DDD	A	58359.54

4,4'-DDT Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1130354.84
Endrin aldehyde	B	23595.95
Endrin ketone	B	47803.34

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1436304.07
4,4'-DDE	B	31529.69
4,4'-DDD	B	186292.84

4,4'-DDT Breakdown %: 13
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC16
Rack/Vial : 1/49
Sample Amount : 1.000000
Cycle : 49

Date : 10/10/04 2:05:03 PM
Data Acquisition Time : 10/8/04 7:32:08 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\cha\280a049.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.897	0.00	0.0000	1.000	1	0.00
alpha-BHC	8.412	65803.25	7.2746	1.000	1	7.27
gamma-BHC	9.267	67366.73	7.6665	1.000	1	7.67
beta-BHC	9.533	44726.09	8.9180	1.000	1	8.92
delta-BHC	9.989	584.45	0.0700	1.000	1	0.07
Heptachlor	10.546	175.48	0.0215	1.000	1	0.02
Aldrin	11.295	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	12.910	3709.15	0.4219	1.000	1	0.42
gamma-Chlordane	13.194	1594.56	0.1758	1.000	1	0.18
alpha-Chlordane	13.511	0.00	0.0000	1.000	1	0.00
4,4'-DDE	13.752	2179.66	0.2790	1.000	1	0.28
Endosulfan I	13.841	0.00	0.0000	1.000	1	0.00
Dieldrin	14.441	0.00	0.0000	1.000	1	0.00
Endrin	15.003	370224.25	52.8309	1.000	1	52.83
4,4'-DDD	15.232	58359.54	10.0015	1.000	1	10.00
Endosulfan II	15.558	2841.33	0.3642	1.000	1	0.36
4,4'-DDT	15.907	493488.82	111.1501	1.000	1	111.15
Endrin aldehyde	16.599	1698.51	0.2522	1.000	1	0.25
Methoxychlor	17.120	604522.49	261.5888	1.000	1	261.59
Endosulfan sulfate	17.665	0.00	0.0000	1.000	1	0.00
Endrin ketone	18.320	13132.03	1.6949	1.000	1	1.69
Decachlorobiphenyl	20.762	0.00	0.0000	1.000	1	0.00
		1730406.34	462.7098			462.71

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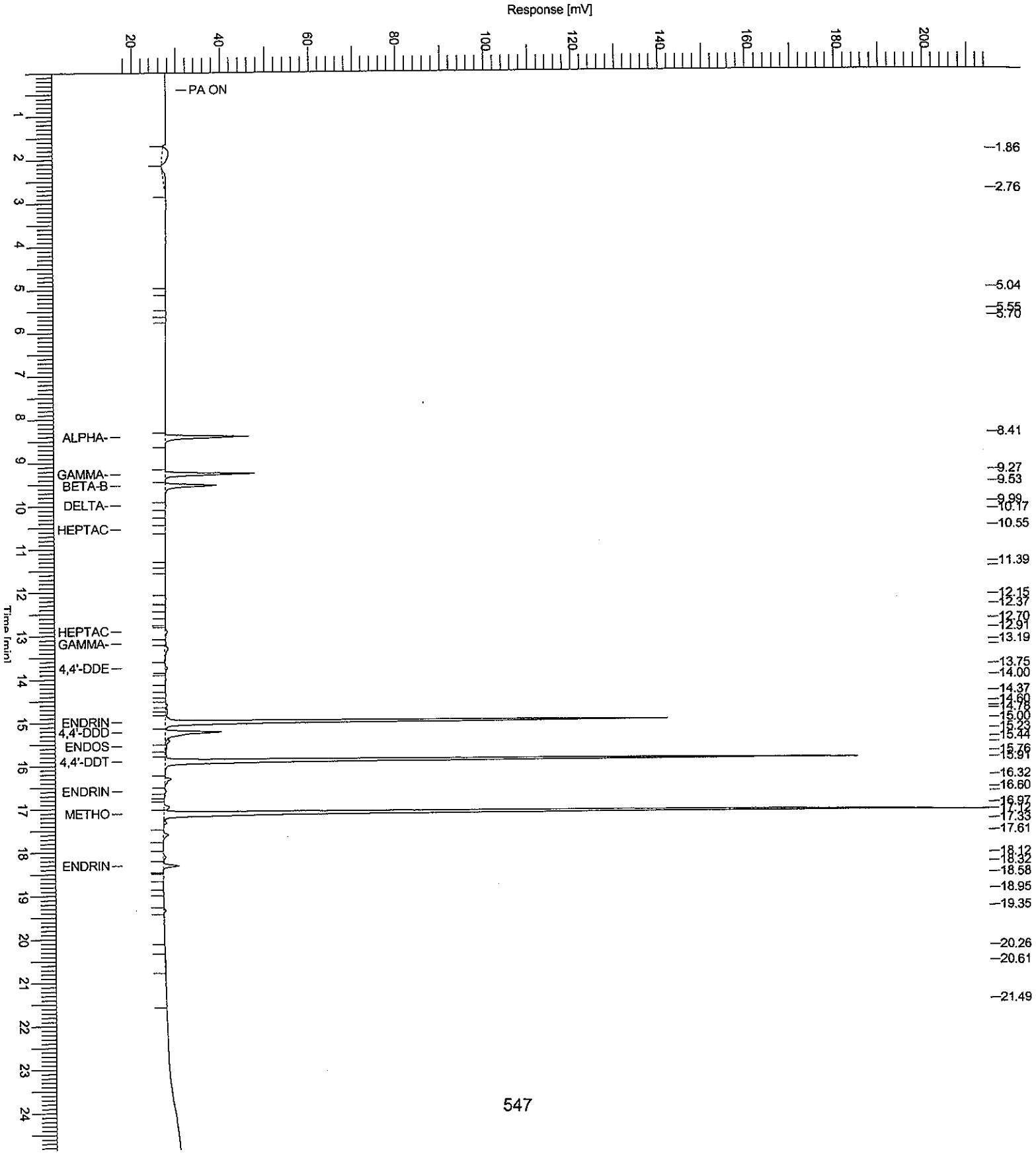
Report stored in ASCII file: g:\gc16\cha\280a049.TX0

GC16 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : G:\gc16\CHa\280a049.raw
ate : 10/10/04 2:05:06 PM
ethod : gc16 Time of Injection: 10/8/04 7:32:08 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 17.04 mV High Point : 214.17 mV
cale Factor: 1.0 Plot Offset: 17.04 mV Plot Scale: 197.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC16
Rack/Vial : 1/49
Sample Amount : 1.000000
Cycle : 49

Date : 10/10/04 2:04:54 PM
Data Acquisition Time : 10/8/04 7:32:08 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\chb\280b049.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

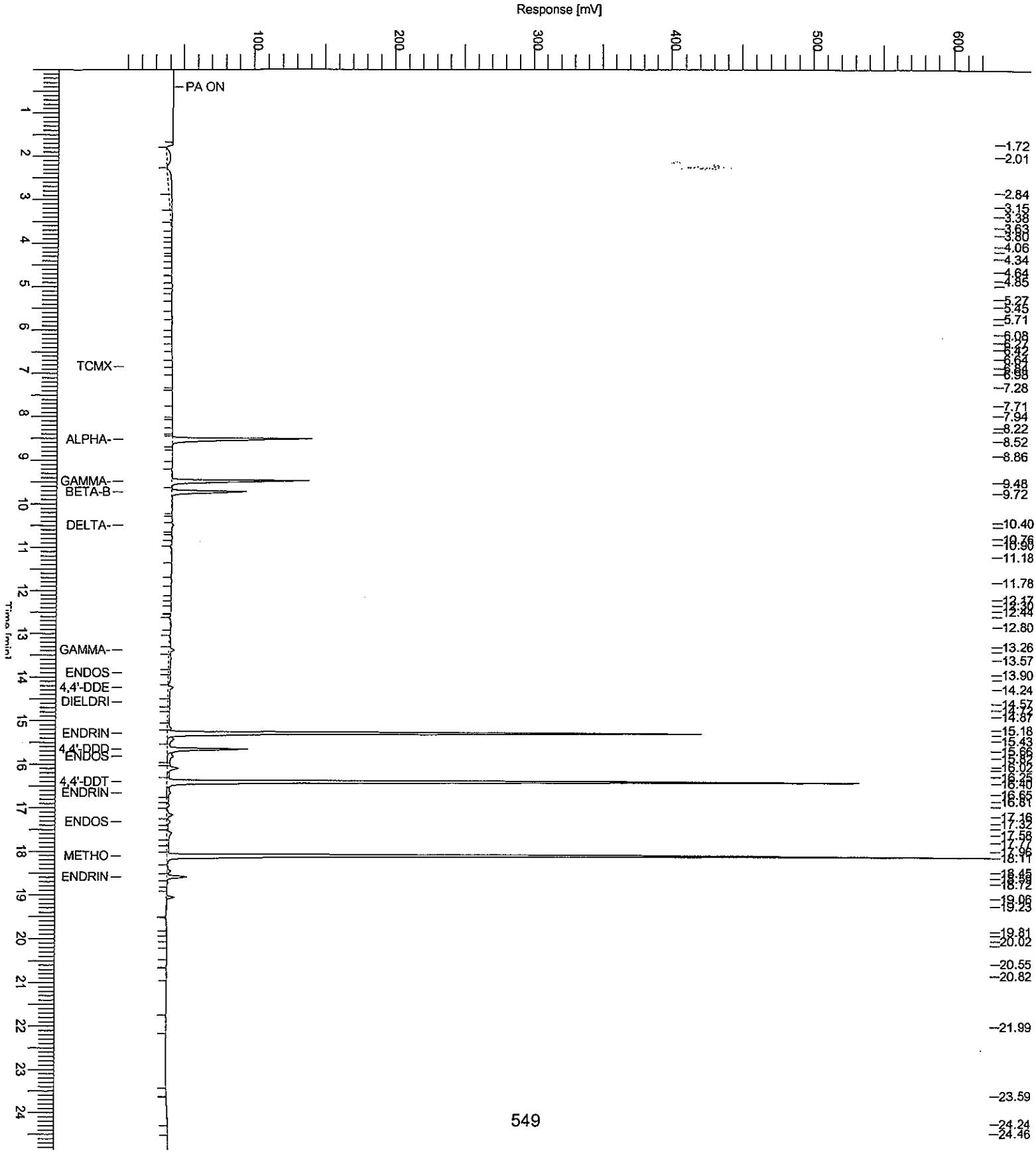
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.837	576.99	0.0224	1.000	1	0.02
alpha-BHC	8.522	315328.54	8.7171	1.000	1	8.72
gamma-BHC	9.480	316989.65	9.4955	1.000	1	9.50
beta-BHC	9.724	184741.42	10.1668	1.000	1	10.17
delta-BHC	10.492	4101.47	0.1180	1.000	1	0.12
Heptachlor	10.629	0.00	0.0000	1.000	1	0.00
Aldrin	11.454	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	12.922	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	13.377	20877.22	0.6494	1.000	1	0.65
alpha-Chlordane	13.766	0.00	0.0000	1.000	1	0.00
Endosulfan I	13.903	10343.37	0.3672	1.000	1	0.37
4,4'-DDE	14.243	31529.69	1.1846	1.000	1	1.18
Dieldrin	14.569	15551.80	0.5718	1.000	1	0.57
Endrin	15.293	1130354.84	49.8523	1.000	1	49.85
4,4'-DDD	15.656	186292.84	9.7516	1.000	1	9.75
Endosulfan II	15.822	38591.24	1.5671	1.000	1	1.57
4,4'-DDT	16.400	1436304.07	100.1124	1.000	1	100.11
Endrin aldehyde	16.653	23595.95	1.2051	1.000	1	1.21
Endosulfan sulfate	17.321	14725.74	0.6596	1.000	1	0.66
Methoxychlor	18.107	1634263.57	264.2472	1.000	1	264.25
Endrin ketone	18.588	47803.34	2.0526	1.000	1	2.05
Decachlorobiphenyl	21.618	0.00	0.0000	1.000	1	0.00
		5411971.76	460.7405			460.74

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\chb\280b049.TX0

GC16 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc16\CHb\280b049
ate : 10/10/04 2:04:56 PM
lethod : gc16 Time of Injection: 10/8/04 7:32:08 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 7.60 mV High Point : 628.53 mV
cale Factor: 1.0 Plot Offset: 7.60 mV Plot Scale: 620.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1633,pest_5
Instrument Name : GC16
Rack/Vial : 1/50
Sample Amount : 1.000000
Cycle : 50

Date : 10/10/04 2:05:09 PM
Data Acquisition Time : 10/8/04 8:02:21 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\cha\280a050.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.888	443056.14	53.3796	1.000	1	53.38
alpha-BHC	8.411	256309.27	28.3350	1.000	1	28.34
gamma-BHC	9.266	244606.43	27.8367	1.000	1	27.84
beta-BHC	9.532	128695.31	25.6607	1.000	1	25.66
delta-BHC	9.990	234758.30	28.1104	1.000	1	28.11
Heptachlor	10.519	209728.75	25.6433	1.000	1	25.64
Aldrin	11.293	222003.25	26.6524	1.000	1	26.65
Heptachlor epoxide	12.866	229643.82	26.1232	1.000	1	26.12
gamma-Chlordane	13.177	239417.32	26.3897	1.000	1	26.39
alpha-Chlordane	13.509	237609.16	26.1353	1.000	1	26.14
4,4'-DDE	13.747	438362.40	56.1064	1.000	1	56.11
Endosulfan I	13.839	241986.36	25.6857	1.000	1	25.69
Dieldrin	14.440	437271.02	53.2370	1.000	1	53.24
Endrin	15.002	389430.27	55.5716	1.000	1	55.57
4,4'-DDD	15.228	356540.20	61.1031	1.000	1	61.10
Endosulfan II	15.561	428793.57	54.9574	1.000	1	54.96
4,4'-DDT	15.904	236340.35	53.2317	1.000	1	53.23
Endrin aldehyde	16.599	353286.57	52.4669	1.000	1	52.47
Methoxychlor	17.120	620790.21	268.6282	1.000	1	268.63
Endosulfan sulfate	17.663	384174.09	54.1173	1.000	1	54.12
Endrin ketone	18.319	430686.60	55.5868	1.000	1	55.59
Decachlorobiphenyl	20.761	418111.33	51.5233	1.000	1	51.52
		7181600.72	1136.4818			1136.48

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\cha\280a050.TX0

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

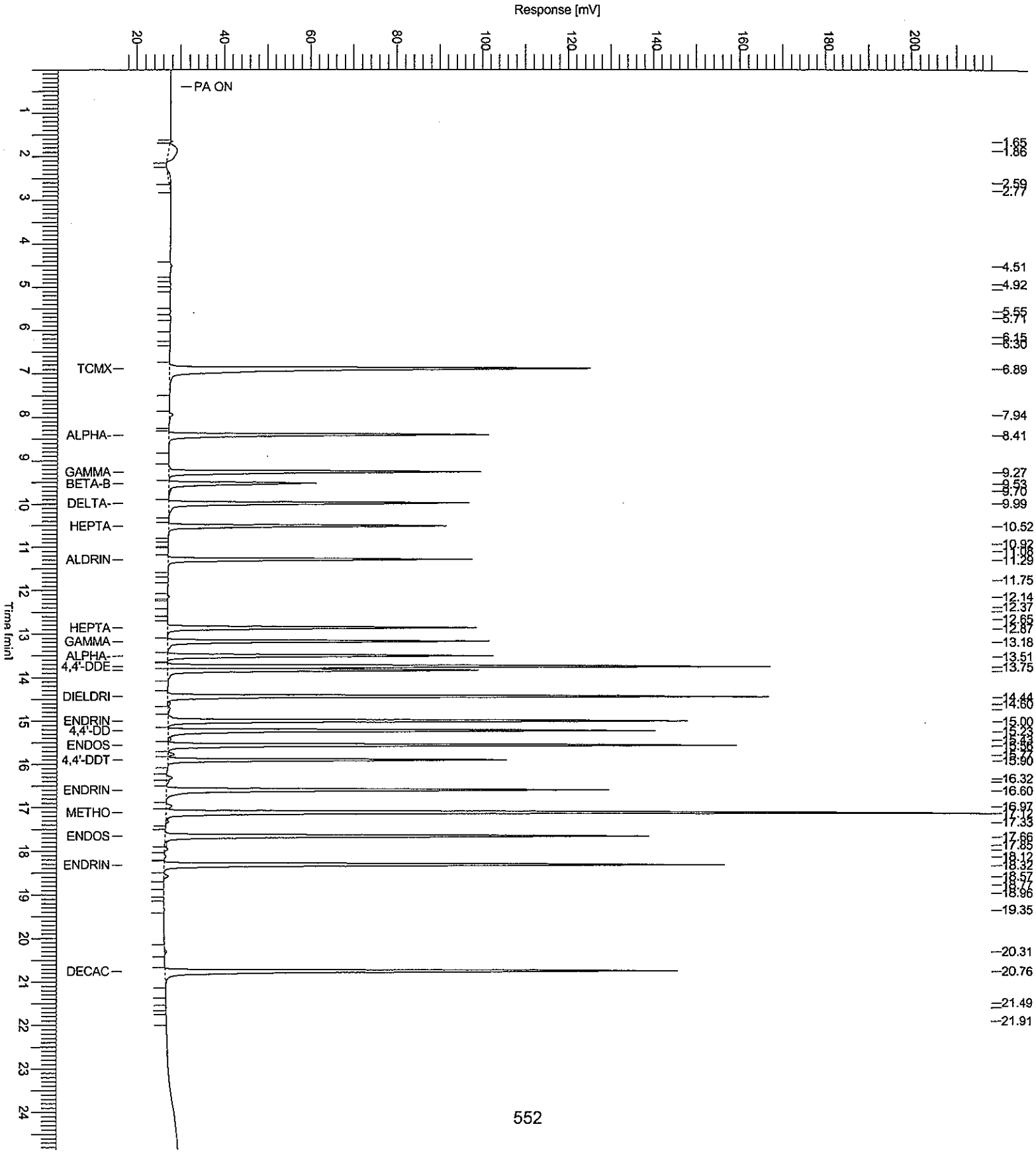
Instid : GC16 Run Name : pest_5 IDF : 1.0
Seqnum : 234403952050 Filename : 280_050 Injected : 08-OCT-2004 20:02
Calnum : 234402633001 Caldate : 05-OCT-2004 Caltype :
Standards: 04WS1633

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	9045.7	10252	25.00000	28.33500	pg	13	15	rsd ***
gamma-BHC	A	8787.2	9784.3	25.00000	27.83671	pg	11	15	
beta-BHC	A	5015.3	5147.8	25.00000	25.66068	pg	3	15	
delta-BHC	A	8351.3	9390.3	25.00000	28.11038	pg	12	15	
Heptachlor	A	8178.7	8389.2	25.00000	25.64334	pg	3	15	
Aldrin	A	8329.6	8880.1	25.00000	26.65242	pg	7	15	
Heptachlor epoxide	A	8790.8	9185.8	25.00000	26.12315	pg	4	15	
gamma-Chlordane	A	9072.4	9576.7	25.00000	26.38965	pg	6	15	
alpha-Chlordane	A	9091.5	9504.4	25.00000	26.13528	pg	5	15	
4,4'-DDE	A	7813.1	8767.2	50.00000	56.10638	pg	12	15	
Endosulfan I	A	9421.0	9679.5	25.00000	25.68574	pg	3	15	
Dieldrin	A	8213.7	8745.4	50.00000	53.23704	pg	6	15	
Endrin	A	7007.7	7788.6	50.00000	55.57162	pg	11	15	
4,4'-DDD	A	5835.1	7130.8	50.00000	61.10308	pg	22	15	c+ ***
Endosulfan II	A	7802.3	8575.9	50.00000	54.95743	pg	10	15	
4,4'-DDT	A	4439.8	4726.8	50.00000	53.23169	pg	6	15	rsd ***
Endrin aldehyde	A	6733.5	7065.7	50.00000	52.46688	pg	5	15	
Methoxychlor	A	2311.0	2483.2	250.0000	268.6282	pg	7	15	
Endosulfan sulfate	A	7098.9	7683.5	50.00000	54.11733	pg	8	15	
Endrin ketone	A	7748.0	8613.7	50.00000	55.58682	pg	11	15	
TCMX	A	8300.1	8861.1	50.00000	53.37962	pg	7	15	
Decachlorobiphenyl	A	8115.0	8362.2	50.00000	51.52332	pg	3	15	
alpha-BHC	B	36174	39007	25.00000	26.95783	pg	8	15	
gamma-BHC	B	33383	35596	25.00000	26.65722	pg	7	15	
beta-BHC	B	18171	18298	25.00000	25.17537	pg	1	15	
delta-BHC	B	34755	36859	25.00000	26.51364	pg	6	15	
Heptachlor	B	22243	24327	25.00000	27.34191	pg	9	15	
Aldrin	B	31327	33444	25.00000	26.68935	pg	7	15	
Heptachlor epoxide	B	29654	29474	25.00000	24.84814	pg	-1	15	
gamma-Chlordane	B	32150	31592	25.00000	24.56662	pg	-2	15	
alpha-Chlordane	B	31620	30598	25.00000	24.19220	pg	-3	15	
4,4'-DDE	B	26616	28241	50.00000	53.05295	pg	6	15	
Endosulfan I	B	28169	28324	25.00000	25.13736	pg	1	15	
Dieldrin	B	27199	27936	50.00000	51.35376	pg	3	15	
Endrin	B	22674	23467	50.00000	51.74796	pg	3	15	
4,4'-DDD	B	19104	20840	50.00000	54.54387	pg	9	15	
Endosulfan II	B	24627	24830	50.00000	50.41224	pg	1	15	
4,4'-DDT	B	14347	14811	50.00000	51.61855	pg	3	15	
Endrin aldehyde	B	19581	19053	50.00000	48.65221	pg	-3	15	
Methoxychlor	B	6184.6	6743.8	250.0000	272.6037	pg	9	15	
Endosulfan sulfate	B	22325	22346	50.00000	50.04790	pg	0	15	
Endrin ketone	B	23289	23939	50.00000	51.39525	pg	3	15	
TCMX	B	25756	25761	50.00000	50.00920	pg	0	15	
Decachlorobiphenyl	B	18496	18030	50.00000	48.74030	pg	-3	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				4	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

GC16 Rtx-CLPesticides

ample Name : ccv,04ws1633,pest_5 Sample #: 25/50ug/l Page 1 of 1
ileName : G:\gc16\CHa\280a050.raw
ate : 10/10/04 2:05:12 PM
lethod : gc16 Time of Injection: 10/8/04 8:02:21 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 16.87 mV High Point : 218.14 mV
cale Factor: 1.0 Plot Offset: 16.87 mV Plot Scale: 201.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1633,pest_5
Instrument Name : GC16
Rack/Vial : 1/50
Sample Amount : 1.000000
Cycle : 50

Date : 10/10/04 2:04:58 PM
Data Acquisition Time : 10/8/04 8:02:21 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\chb\280b050.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

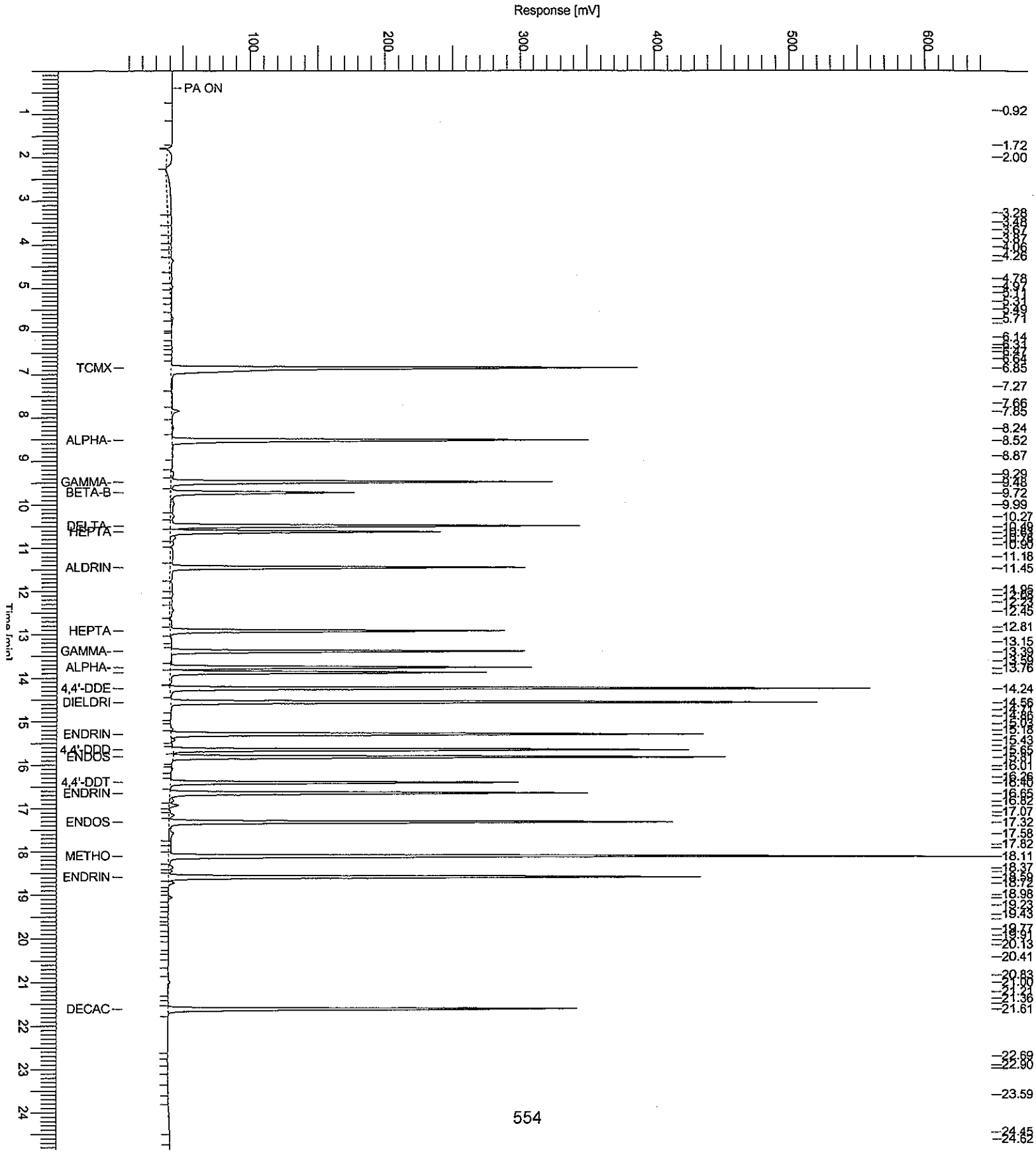
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	1288059.81	50.0092	1.000	1	50.01
alpha-BHC	8.520	975165.35	26.9578	1.000	1	26.96
gamma-BHC	9.480	889905.29	26.6572	1.000	1	26.66
beta-BHC	9.720	457462.10	25.1754	1.000	1	25.18
delta-BHC	10.493	921468.54	26.5136	1.000	1	26.51
Heptachlor	10.627	608174.85	27.3419	1.000	1	27.34
Aldrin	11.453	836101.80	26.6893	1.000	1	26.69
Heptachlor epoxide	12.920	736851.17	24.8481	1.000	1	24.85
gamma-Chlordane	13.387	789812.22	24.5666	1.000	1	24.57
alpha-Chlordane	13.760	764945.99	24.1922	1.000	1	24.19
Endosulfan I	13.880	708103.47	25.1374	1.000	1	25.14
4,4'-DDE	14.240	1412042.53	53.0529	1.000	1	53.05
Dieldrin	14.560	1396786.51	51.3538	1.000	1	51.35
Endrin	15.293	1173336.84	51.7480	1.000	1	51.75
4,4'-DDD	15.653	1041995.10	54.5439	1.000	1	54.54
Endosulfan II	15.813	1241478.65	50.4122	1.000	1	50.41
4,4'-DDT	16.400	740567.10	51.6185	1.000	1	51.62
Endrin aldehyde	16.653	952646.72	48.6522	1.000	1	48.65
Endosulfan sulfate	17.320	1117312.04	50.0479	1.000	1	50.05
Methoxychlor	18.107	1685945.17	272.6037	1.000	1	272.60
Endrin ketone	18.587	1196953.87	51.3953	1.000	1	51.40
Decachlorobiphenyl	21.613	901508.64	48.7403	1.000	1	48.74
		21836623.78	1092.2575			1092.26

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\chb\280b050.TX0

GC16 Rtx-CLPesticides2

ample Name : ccv,04ws1633,pest_5 Sample #: 25/50ug/l Page 1 of 1
ileName : G:\gc16\CHb\280b050
ate : 10/10/04 2:05:00 PM
lethod : gc16 Time of Injection: 10/8/04 8:02:21 PM
tart Time : 0.00 min End Time : 24.85 min Low Point : 6.51 mV High Point : 648.92 mV
cale Factor: 1.0 Plot Offset: 6.51 mV Plot Scale: 642.4 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234403952069 Run Name: Injected: 09-OCT-2004 06:08
Filename: 280_069 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	351211.82
Endrin aldehyde	A	2016.5
Endrin ketone	A	14023.82

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	392345.44
4,4'-DDE	A	2230.03
4,4'-DDD	A	84063.93

4,4'-DDT Breakdown %: **18 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1062459.08
Endrin aldehyde	B	14441.68
Endrin ketone	B	51812.43

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1214576.25
4,4'-DDE	B	26396.74
4,4'-DDD	B	280694.81

4,4'-DDT Breakdown %: **20 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : x,pem,04ws1614
Instrument Name : GC16
Rack/Vial : 1/69
Sample Amount : 1.000000
Cycle : 69

Date : 10/10/04 2:24:12 PM
Data Acquisition Time : 10/9/04 6:08:51 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\cha\280a069.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

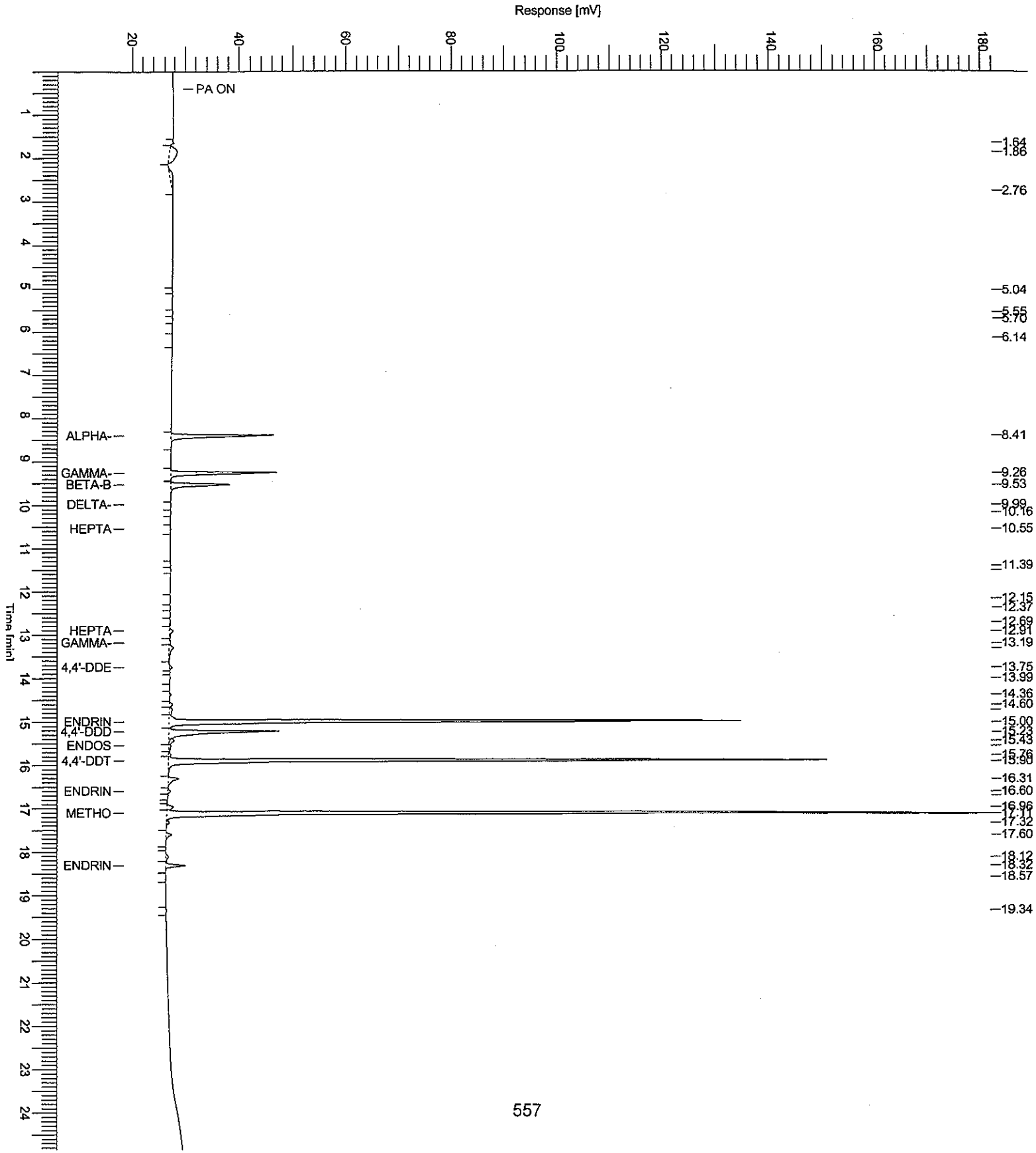
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.897	0.00	0.0000	1.000	1	0.00
alpha-BHC	8.407	67861.37	7.5021	1.000	1	7.50
gamma-BHC	9.264	66320.71	7.5474	1.000	1	7.55
beta-BHC	9.530	43325.88	8.6388	1.000	1	8.64
delta-BHC	9.986	574.34	0.0688	1.000	1	0.07
Heptachlor	10.546	223.44	0.0273	1.000	1	0.03
Aldrin	11.295	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	12.906	4540.33	0.5165	1.000	1	0.52
gamma-Chlordane	13.186	1941.55	0.2140	1.000	1	0.21
alpha-Chlordane	13.511	0.00	0.0000	1.000	1	0.00
4,4'-DDE	13.749	2230.03	0.2854	1.000	1	0.29
Endosulfan I	13.841	0.00	0.0000	1.000	1	0.00
Dieldrin	14.441	0.00	0.0000	1.000	1	0.00
Endrin	14.999	351211.82	50.1179	1.000	1	50.12
4,4'-DDD	15.228	84063.93	14.4067	1.000	1	14.41
Endosulfan II	15.548	3072.39	0.3938	1.000	1	0.39
4,4'-DDT	15.898	392345.44	88.3692	1.000	1	88.37
Endrin aldehyde	16.597	2016.50	0.2995	1.000	1	0.30
Methoxychlor	17.107	515144.24	222.9131	1.000	1	222.91
Endosulfan sulfate	17.665	0.00	0.0000	1.000	1	0.00
Endrin ketone	18.316	14023.82	1.8100	1.000	1	1.81
Decachlorobiphenyl	20.762	0.00	0.0000	1.000	1	0.00
		1548895.81	403.1104			403.11

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\cha\280a069.TX0

GC16 Rtx-CLPesticides

Sample Name : x,pem,04ws1614 Sample #: Page 1 of 1
FileName : G:\gc16\CHa\280a069.raw
Date : 10/10/04 2:24:14 PM
Method : gc16 Time of Injection: 10/9/04 6:08:51 AM
Start Time : 0.00 min End Time : 24.85 min Low Point : 18.42 mV High Point : 182.26 mV
Scale Factor: 1.0 Plot Offset: 18.42 mV Plot Scale: 163.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,pem,04ws1614
Instrument Name : GC16
Rack/Vial : 1/69
Sample Amount : 1.000000
Cycle : 69

Date : 10/10/04 2:24:00 PM
Data Acquisition Time : 10/9/04 6:08:51 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\chb\280b069.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

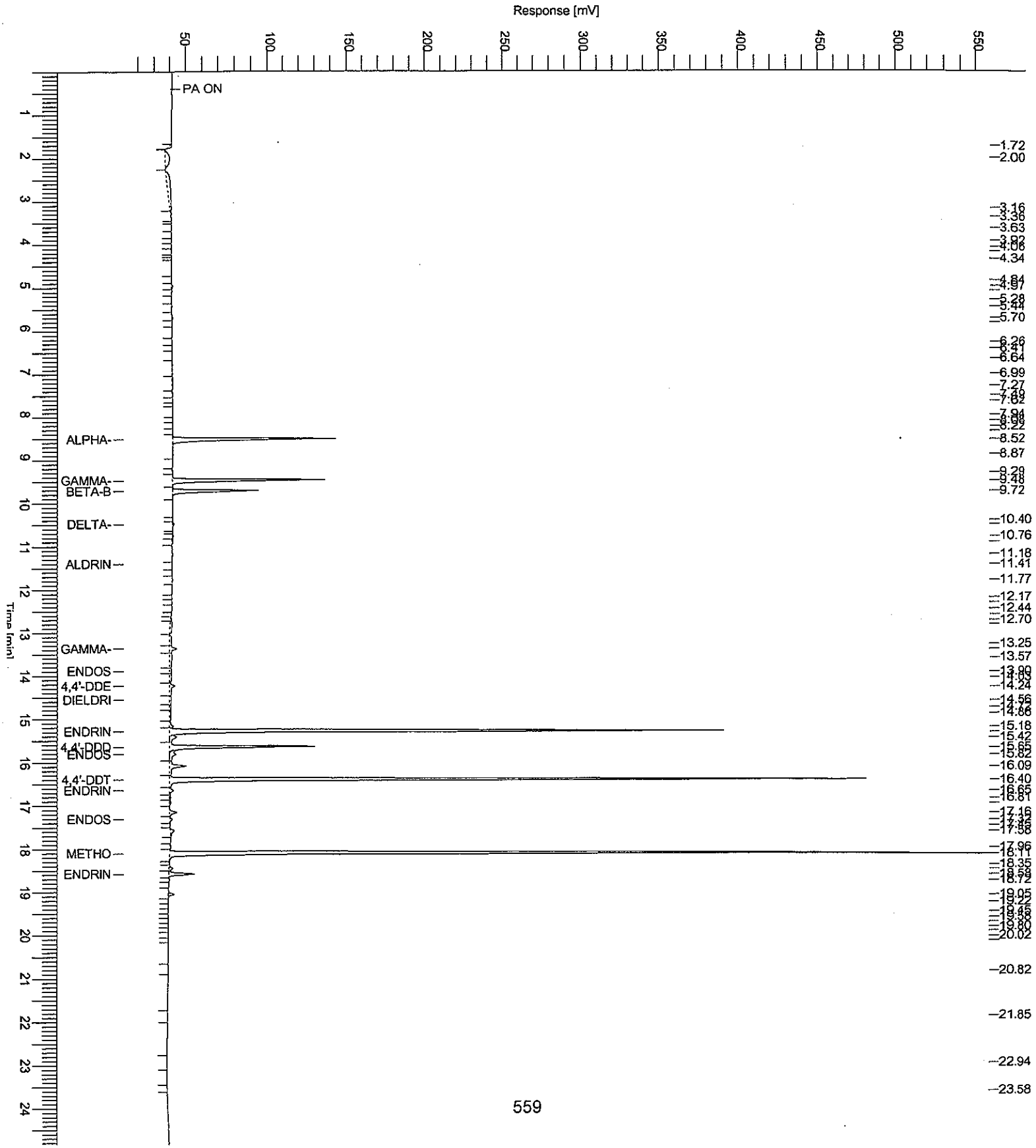
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.864	0.00	0.0000	1.000	1	0.00
alpha-BHC	8.520	319215.32	8.8245	1.000	1	8.82
gamma-BHC	9.478	303719.48	9.0980	1.000	1	9.10
beta-BHC	9.722	171136.18	9.4181	1.000	1	9.42
delta-BHC	10.486	4069.17	0.1171	1.000	1	0.12
Heptachlor	10.629	0.00	0.0000	1.000	1	0.00
Aldrin	11.410	1502.19	0.0480	1.000	1	0.05
Heptachlor epoxide	12.922	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	13.373	25084.09	0.7802	1.000	1	0.78
alpha-Chlordane	13.766	0.00	0.0000	1.000	1	0.00
Endosulfan I	13.896	9417.56	0.3343	1.000	1	0.33
4,4'-DDE	14.239	26396.74	0.9918	1.000	1	0.99
Dieldrin	14.561	12958.23	0.4764	1.000	1	0.48
Endrin	15.293	1062459.08	46.8579	1.000	1	46.86
4,4'-DDD	15.651	280694.81	14.6931	1.000	1	14.69
Endosulfan II	15.815	36664.86	1.4888	1.000	1	1.49
4,4'-DDT	16.400	1214576.25	84.6576	1.000	1	84.66
Endrin aldehyde	16.650	14441.68	0.7375	1.000	1	0.74
Endosulfan sulfate	17.317	6808.32	0.3050	1.000	1	0.30
Methoxychlor	18.107	1432598.32	231.6395	1.000	1	231.64
Endrin ketone	18.585	51812.43	2.2247	1.000	1	2.22
Decachlorobiphenyl	21.618	0.00	0.0000	1.000	1	0.00
		4973554.70	412.6926			412.69

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\chb\280b069.TX0

GC16 Rtx-CLPesticides2

ample Name : x,pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc16\CHb\280b069
ate : 10/10/04 2:24:02 PM
lethod : gc16 Time of Injection: 10/9/04 6:08:51 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 10.99 mV High Point : 559.21 mV
cale Factor: 1.0 Plot Offset: 10.99 mV Plot Scale: 548.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234403952068
Calnum : 234402633001
Standards: 04WS1632

Run Name : pest_4
Filename : 280_068
Caldate : 05-OCT-2004

IDF : 1.0
Injected : 09-OCT-2004 05:38
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	9045.7	9384.8	20.00000	20.74987	pg	4	15	rsd ***
gamma-BHC	A	8787.2	9146.3	20.00000	20.81728	pg	4	15	
beta-BHC	A	5015.3	5006.4	20.00000	19.96444	pg	0	15	
delta-BHC	A	8351.3	8522.0	20.00000	20.40880	pg	2	15	
Heptachlor	A	8178.7	8017.2	20.00000	19.60522	pg	-2	15	
Aldrin	A	8329.6	8604.0	20.00000	20.65894	pg	3	15	
Heptachlor epoxide	A	8790.8	9219.3	20.00000	20.97485	pg	5	15	
gamma-Chlordane	A	9072.4	9416.9	20.00000	20.75957	pg	4	15	
alpha-Chlordane	A	9091.5	9410.1	20.00000	20.70084	pg	4	15	
4,4'-DDE	A	7813.1	8543.2	40.00000	43.73817	pg	9	15	
Endosulfan I	A	9421.0	9659.6	20.00000	20.50634	pg	3	15	
Dieldrin	A	8213.7	8689.0	40.00000	42.31506	pg	6	15	
Endrin	A	7007.7	7602.5	40.00000	43.39481	pg	8	15	
4,4'-DDD	A	5835.1	6741.5	40.00000	46.21369	pg	16	15	c+ ***
Endosulfan II	A	7802.3	8080.1	40.00000	41.42441	pg	4	15	
4,4'-DDT	A	4439.8	3795.8	40.00000	34.19786	pg	-15	15	rsd ***
Endrin aldehyde	A	6733.5	6648.2	40.00000	39.49303	pg	-1	15	
Methoxychlor	A	2311.0	2218.9	200.0000	192.0346	pg	-4	15	
Endosulfan sulfate	A	7098.9	7148.7	40.00000	40.28052	pg	1	15	
Endrin ketone	A	7748.0	7756.8	40.00000	40.04536	pg	0	15	
TCMX	A	8300.1	8467.3	40.00000	40.80555	pg	2	15	
Decachlorobiphenyl	A	8115.0	7869.7	40.00000	38.79115	pg	-3	15	
alpha-BHC	B	36174	37231	20.00000	20.58440	pg	3	15	
gamma-BHC	B	33383	33819	20.00000	20.26097	pg	1	15	
beta-BHC	B	18171	17466	20.00000	19.22397	pg	-4	15	
delta-BHC	B	34755	34603	20.00000	19.91310	pg	0	15	
Heptachlor	B	22243	24160	20.00000	21.72376	pg	9	15	
Aldrin	B	31327	31639	20.00000	20.19917	pg	1	15	
Heptachlor epoxide	B	29654	29505	20.00000	19.89964	pg	-1	15	
gamma-Chlordane	B	32150	31296	20.00000	19.46879	pg	-3	15	
alpha-Chlordane	B	31620	30580	20.00000	19.34242	pg	-3	15	
4,4'-DDE	B	26616	27928	40.00000	41.97207	pg	5	15	
Endosulfan I	B	28169	27721	20.00000	19.68188	pg	-2	15	
Dieldrin	B	27199	27722	40.00000	40.76930	pg	2	15	
Endrin	B	22674	23237	40.00000	40.99318	pg	2	15	
4,4'-DDD	B	19104	20239	40.00000	42.37652	pg	6	15	
Endosulfan II	B	24627	23826	40.00000	38.70035	pg	-3	15	
4,4'-DDT	B	14347	13541	40.00000	37.75219	pg	-6	15	
Endrin aldehyde	B	19581	18004	40.00000	36.77882	pg	-8	15	
Methoxychlor	B	6184.6	6222.0	200.0000	201.2081	pg	1	15	
Endosulfan sulfate	B	22325	21005	40.00000	37.63473	pg	-6	15	
Endrin ketone	B	23289	22088	40.00000	37.93610	pg	-5	15	
TCMX	B	25756	24640	40.00000	38.26556	pg	-4	15	
Decachlorobiphenyl	B	18496	16586	40.00000	35.86924	pg	-10	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				4	15	

+=high bias c=CCV rsd=ICAL %RSD failure

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC16
Rack/Vial : 1/68
Sample Amount : 1.000000
Cycle : 68

Date : 10/10/04 2:24:06 PM
Data Acquisition Time : 10/9/04 5:38:16 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\cha\280a068.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL A METH. 8081

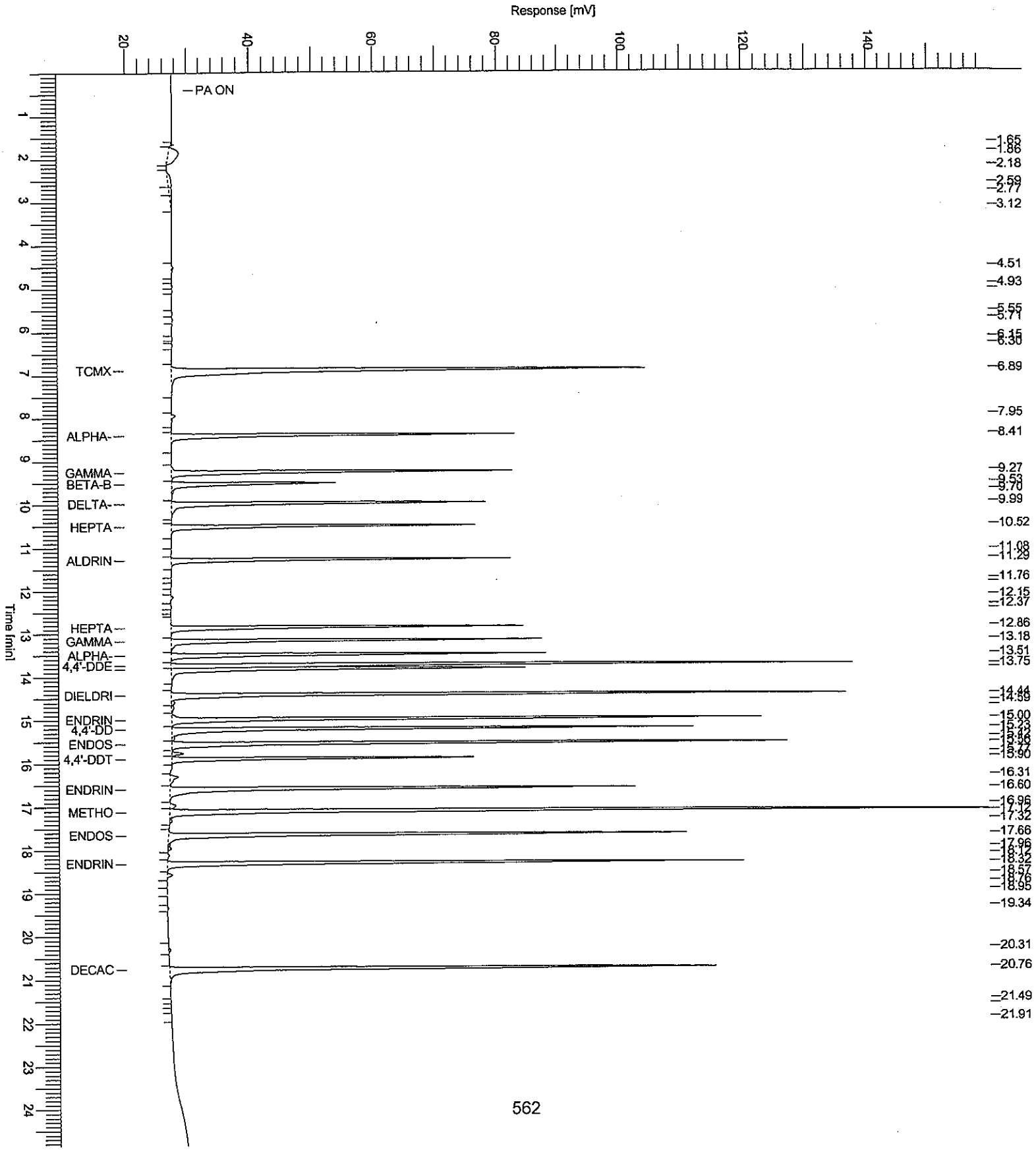
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.892	338690.16	40.8056	1.000	1	40.81
alpha-BHC	8.411	187696.60	20.7499	1.000	1	20.75
gamma-BHC	9.266	182925.35	20.8173	1.000	1	20.82
beta-BHC	9.531	100127.11	19.9644	1.000	1	19.96
delta-BHC	9.989	170440.04	20.4088	1.000	1	20.41
Heptachlor	10.518	160344.82	19.6052	1.000	1	19.61
Aldrin	11.292	172080.17	20.6589	1.000	1	20.66
Heptachlor epoxide	12.864	184386.05	20.9748	1.000	1	20.97
gamma-Chlordane	13.175	188338.99	20.7596	1.000	1	20.76
alpha-Chlordane	13.507	188201.89	20.7008	1.000	1	20.70
4,4'-DDE	13.748	341728.87	43.7382	1.000	1	43.74
Endosulfan I	13.838	193191.03	20.5063	1.000	1	20.51
Dieldrin	14.437	347561.61	42.3151	1.000	1	42.32
Endrin	15.000	304098.60	43.3948	1.000	1	43.39
4,4'-DDD	15.226	269659.67	46.2137	1.000	1	46.21
Endosulfan II	15.560	323205.10	41.4244	1.000	1	41.42
4,4'-DDT	15.900	151833.12	34.1979	1.000	1	34.20
Endrin aldehyde	16.597	265926.97	39.4930	1.000	1	39.49
Methoxychlor	17.120	443785.10	192.0346	1.000	1	192.03
Endosulfan sulfate	17.658	285947.84	40.2805	1.000	1	40.28
Endrin ketone	18.317	310271.37	40.0454	1.000	1	40.05
Decachlorobiphenyl	20.759	314789.85	38.7911	1.000	1	38.79
		5425230.33	847.8803			847.88

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc16\cha\280a068.TX0

GC16 Rtx-CLPesticides

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/l Page 1 of 1
ileName : G:\gc16\CHa\280a068.raw
ate : 10/10/04 2:24:09 PM
lethod : gc16 Time of Injection: 10/9/04 5:38:16 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 19.62 mV High Point : 159.72 mV
cale Factor: 1.0 Plot Offset: 19.62 mV Plot Scale: 140.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC16
Rack/Vial : 1/68
Sample Amount : 1.000000
Cycle : 68

Date : 10/10/04 2:23:54 PM
Data Acquisition Time : 10/9/04 5:38:16 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc16\chb\280b068.rst
Sequence File : G:\gc16\files\280.seq

PEST GC16 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	985585.31	38.2656	1.000	1	38.27
alpha-BHC	8.520	744614.65	20.5844	1.000	1	20.58
gamma-BHC	9.480	676377.64	20.2610	1.000	1	20.26
beta-BHC	9.722	349318.99	19.2240	1.000	1	19.22
delta-BHC	10.493	692069.89	19.9131	1.000	1	19.91
Heptachlor	10.627	483208.49	21.7238	1.000	1	21.72
Aldrin	11.440	632782.90	20.1992	1.000	1	20.20
Heptachlor epoxide	12.920	590107.32	19.8996	1.000	1	19.90
gamma-Chlordane	13.387	625917.79	19.4688	1.000	1	19.47
alpha-Chlordane	13.760	611598.10	19.3424	1.000	1	19.34
Endosulfan I	13.880	554426.09	19.6819	1.000	1	19.68
4,4'-DDE	14.240	1117117.09	41.9721	1.000	1	41.97
Dieldrin	14.560	1108896.79	40.7693	1.000	1	40.77
Endrin	15.293	929482.02	40.9932	1.000	1	40.99
4,4'-DDD	15.653	809552.41	42.3765	1.000	1	42.38
Endosulfan II	15.813	953055.40	38.7004	1.000	1	38.70
4,4'-DDT	16.400	541627.55	37.7522	1.000	1	37.75
Endrin aldehyde	16.640	720156.75	36.7788	1.000	1	36.78
Endosulfan sulfate	17.320	840189.99	37.6347	1.000	1	37.63
Methoxychlor	18.107	1244391.95	201.2081	1.000	1	201.21
Endrin ketone	18.587	883501.10	37.9361	1.000	1	37.94
Decachlorobiphenyl	21.613	663443.42	35.8692	1.000	1	35.87
		16757421.63	830.5542			830.55

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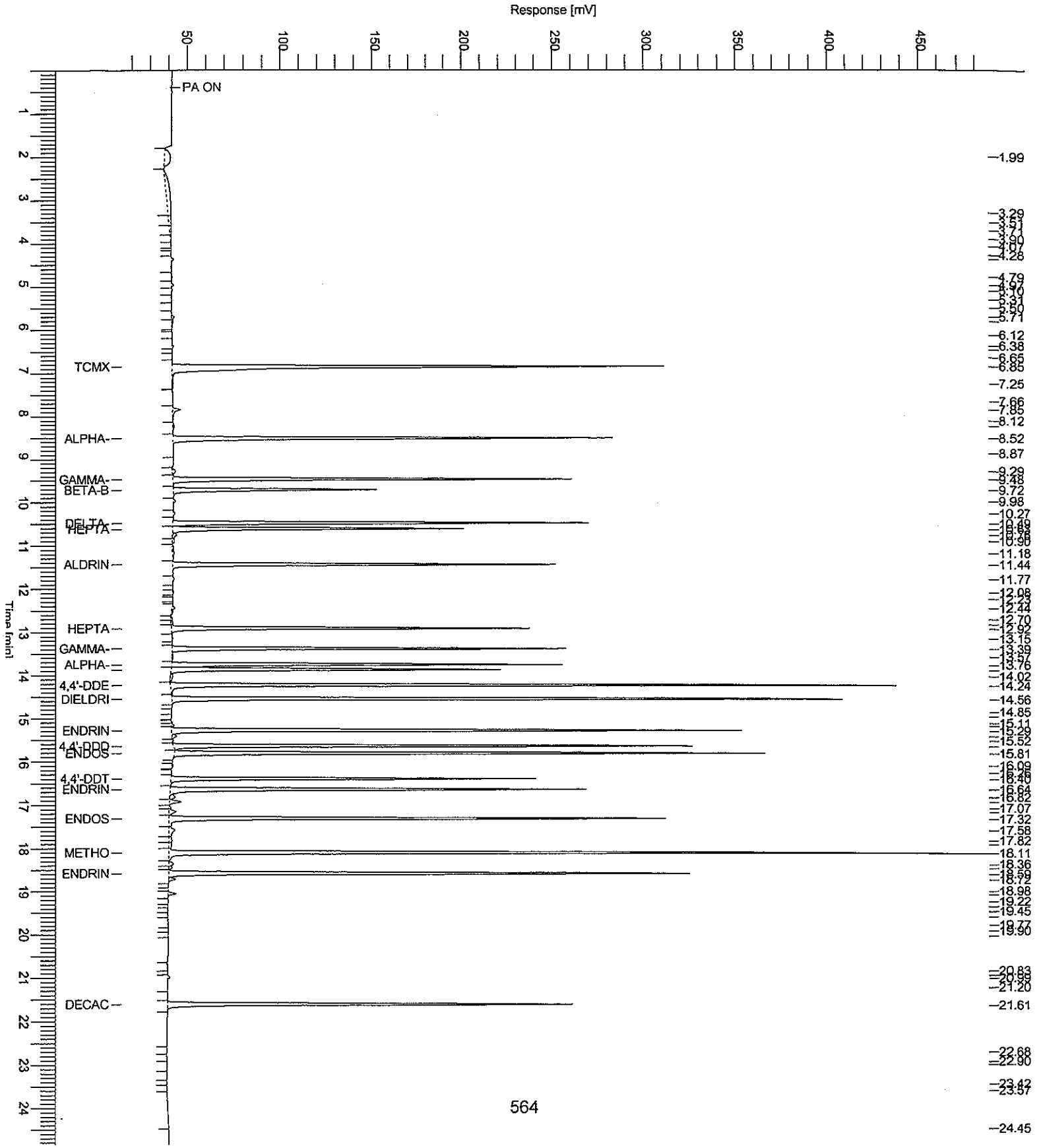
Report stored in ASCII file: g:\gc16\chb\280b068.TX0

GC16 Rtx-CLPesticides2

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/l Page 1 of 1
leName : G:\gc16\CHb\280b068
ate : 10/10/04 2:23:57 PM
ethod : gc16 Time of Injection: 10/9/04 5:38:16 AM
tart Time : 0.00 min End Time : 24.85 min Low Point : 14.45 mV High Point : 487.69 mV
cale Factor: 1.0 Plot Offset: 14.45 mV Plot Scale: 473.2 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063002 Run Name: Injected: 10-OCT-2004 18:23
Filename: 284_002 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	403033.88
Endrin aldehyde	A	28063.87
Endrin ketone	A	17583.17

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	891099.99
4,4'-DDE	A	4147.47
4,4'-DDD	A	14209.22

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	304797.55
Endrin aldehyde	B	19822.03
Endrin ketone	B	41677

Endrin Breakdown %: **17 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	488904.9
4,4'-DDE	B	4143.64
4,4'-DDD	B	30929.81

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 2

Date : 10/11/04 10:31:53 AM
Data Acquisition Time : 10/10/04 6:23:05 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a002.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.820	196.00	0.0209	1.000	1	0.02
alpha-BHC	9.447	142185.26	9.7858	1.000	1	9.79
gamma-BHC	10.338	132705.67	10.1159	1.000	1	10.12
beta-BHC	10.603	58383.00	10.4756	1.000	1	10.48
delta-BHC	11.090	1747.85	0.1331	1.000	1	0.13
Heptachlor	11.637	915.79	0.0851	1.000	1	0.09
Aldrin	12.447	587.10	0.0485	1.000	1	0.05
Heptachlor epoxide	14.052	902.12	0.0800	1.000	1	0.08
gamma-Chlordane	14.357	837.16	0.0735	1.000	1	0.07
alpha-Chlordane	14.703	533.87	0.0484	1.000	1	0.05
4,4'-DDE	14.916	4147.47	0.3802	1.000	1	0.38
Endosulfan I	15.047	753.48	0.0726	1.000	1	0.07
Dieldrin	15.657	869.17	0.0770	1.000	1	0.08
Endrin	16.234	403033.88	46.1374	1.000	1	46.14
4,4'-DDD	16.430	14209.22	1.5045	1.000	1	1.50
Endosulfan II	16.804	1918.14	0.1967	1.000	1	0.20
4,4'-DDT	17.111	891099.99	116.4089	1.000	1	116.41
Endrin aldehyde	17.850	28063.87	3.6626	1.000	1	3.66
Methoxychlor	18.317	942931.42	279.0070	1.000	1	279.01
Endosulfan sulfate	18.933	2312.37	0.2684	1.000	1	0.27
Endrin ketone	19.612	17583.17	1.6770	1.000	1	1.68
Decachlorobiphenyl	21.595	669.41	0.1008	1.000	1	0.10
		2646585.39	480.3598			480.36

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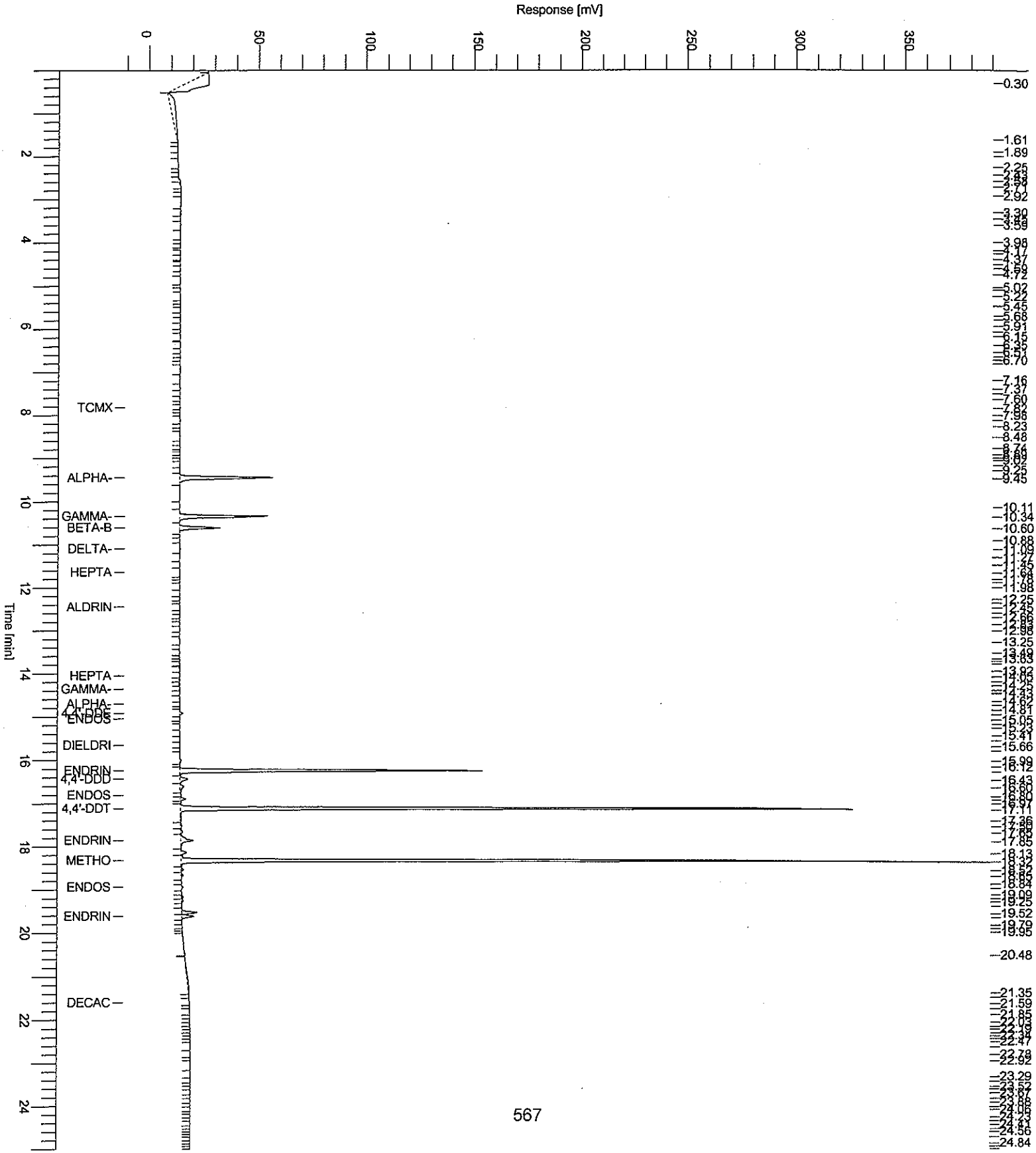
Report stored in ASCII file: G:\gc23\CHA\284a002.TX0

RW
10/12/04

GC23 Rtx-CLPesticides

Sample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHA\284a002.raw
Date : 10/11/04 10:31:56 AM
Method : gc23ins Time of Injection: 10/10/04 6:23:05 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -11.22 mV High Point : 390.37 mV
Scale Factor: 1.0 Plot Offset: -11.22 mV Plot Scale: 401.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 2

Date : 10/11/04 10:32:09 AM
Data Acquisition Time : 10/10/04 6:23:05 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b002.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.727	103.00	0.0110	1.000	1	0.01
alpha-BHC	9.429	118849.50	8.3057	1.000	1	8.31
gamma-BHC	10.395	108486.00	8.3849	1.000	1	8.38
beta-BHC	10.615	49848.00	8.6084	1.000	1	8.61
delta-BHC	11.401	1076.00	0.0830	1.000	1	0.08
Heptachlor	11.553	0.00	0.0000	1.000	1	0.00
Aldrin	12.399	211.38	0.0174	1.000	1	0.02
Heptachlor epoxide	13.862	282.00	0.0253	1.000	1	0.03
gamma-Chlordane	14.337	810.50	0.0702	1.000	1	0.07
alpha-Chlordane	14.717	273.00	0.0245	1.000	1	0.02
Endosulfan I	14.846	575.00	0.0551	1.000	1	0.06
4,4'-DDE	15.182	4143.64	0.3786	1.000	1	0.38
Dieldrin	15.532	1178.17	0.1061	1.000	1	0.11
Endrin	16.282	304797.55	37.3221	1.000	1	37.32
4,4'-DDD	16.612	30929.81	3.3691	1.000	1	3.37
Endosulfan II	16.804	2989.00	0.3103	1.000	1	0.31
4,4'-DDT	17.370	488904.90	73.7772	1.000	1	73.78
Endrin aldehyde	17.640	19822.03	2.5884	1.000	1	2.59
Endosulfan sulfate	18.304	6150.66	0.7060	1.000	1	0.71
Methoxychlor	19.084	537709.42	175.6689	1.000	1	175.67
Endrin ketone	19.613	41677.00	4.0319	1.000	1	4.03
Decachlorobiphenyl	22.033	2853.14	0.4675	1.000	1	0.47
		1721669.70	324.3117			324.31

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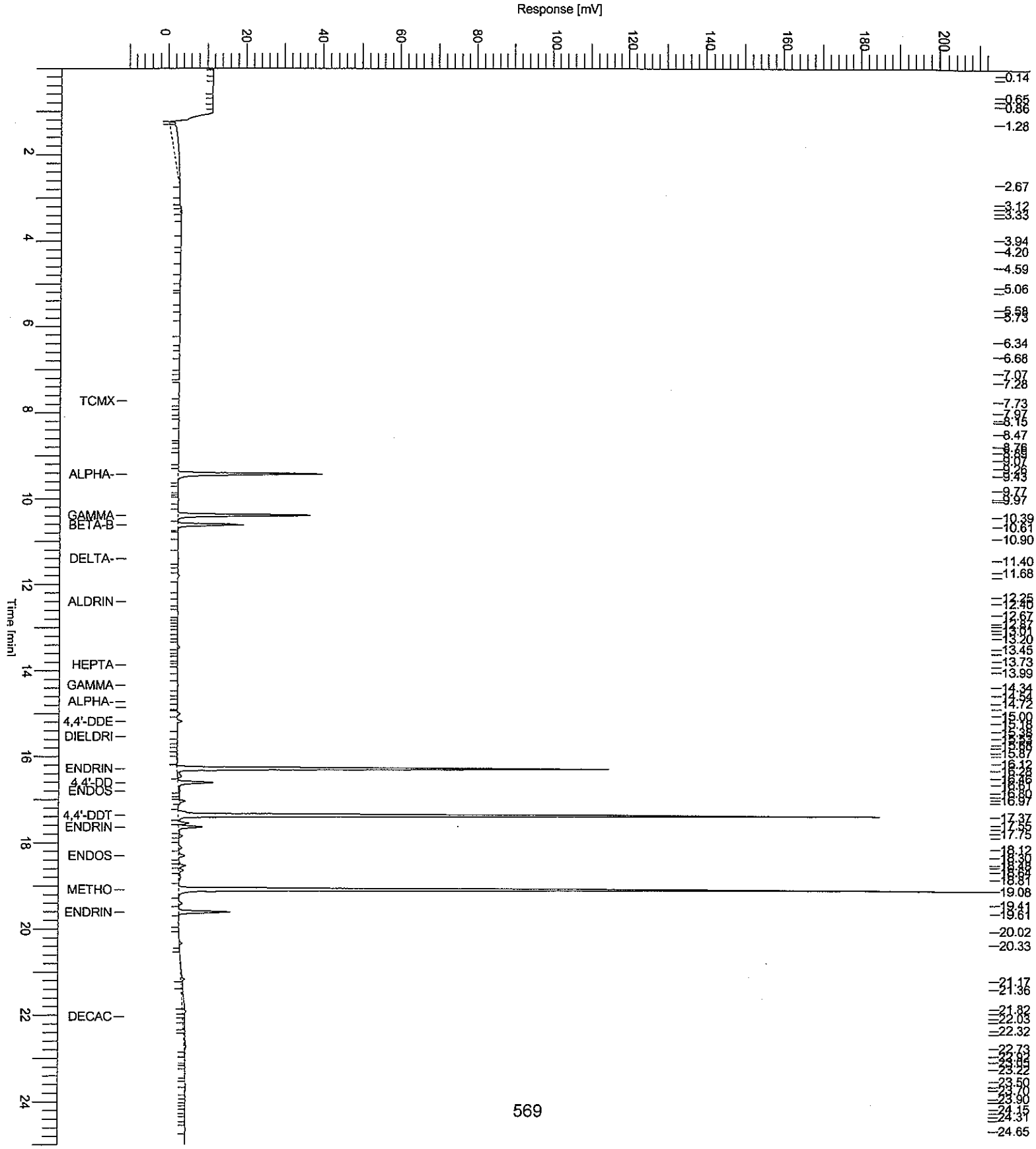
Report stored in ASCII file: G:\gc23\CHB\284b002.TX0

GC23 Rtx-CLPesticides2

Sample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHb\284b002
Date : 10/11/04 10:32:12 AM
Method : gc23ins Time of Injection: 10/10/04 6:23:05 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -10.51 mV High Point : 213.76 mV
Scale Factor: 1.0 Plot Offset: -10.51 mV Plot Scale: 224.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804410063004 Filename : 284_004 Injected : 10-OCT-2004 20:02
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :
Standards: 04WS1632

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13798	20.00000	18.99330	pg	-5	15	
gamma-BHC	A	13119	12494	20.00000	19.04815	pg	-5	15	
beta-BHC	A	5573.2	5390.7	20.00000	19.34507	pg	-3	15	
delta-BHC	A	13128	12275	20.00000	18.70044	pg	-6	15	
Heptachlor	A	10759	10265	20.00000	19.08231	pg	-5	15	
Aldrin	A	12104	11255	20.00000	18.59662	pg	-7	15	
Heptachlor epoxide	A	11281	10515	20.00000	18.64234	pg	-7	15	
gamma-Chlordane	A	11389	10572	20.00000	18.56511	pg	-7	15	
alpha-Chlordane	A	11028	10156	20.00000	18.41849	pg	-8	15	
4,4'-DDE	A	10910	10156	40.00000	37.23734	pg	-7	15	
Endosulfan I	A	10383	9689.6	20.00000	18.66525	pg	-7	15	
Dieldrin	A	11293	10316	40.00000	36.53987	pg	-9	15	
Endrin	A	8735.5	7882.6	40.00000	36.09455	pg	-10	15	
4,4'-DDD	A	9444.6	7987.9	40.00000	33.83074	pg	-15	15	
Endosulfan II	A	9750.1	8844.3	40.00000	36.28408	pg	-9	15	
4,4'-DDT	A	7654.9	7751.8	40.00000	40.50601	pg	1	15	
Endrin aldehyde	A	7662.3	6885.2	40.00000	35.94292	pg	-10	15	
Methoxychlor	A	3379.6	3498.7	200.0000	207.0489	pg	4	15	
Endosulfan sulfate	A	8615.6	7548.7	40.00000	35.04704	pg	-12	15	
Endrin ketone	A	10485	9232.6	40.00000	35.22279	pg	-12	15	
TCMX	A	9377.7	8851.4	40.00000	37.75482	pg	-6	15	
Decachlorobiphenyl	A	6642.4	5807.8	40.00000	34.97422	pg	-13	15	
alpha-BHC	B	14309	12932	20.00000	18.07474	pg	-10	15	
gamma-BHC	B	12938	11610	20.00000	17.94729	pg	-10	15	
beta-BHC	B	5790.6	5164.1	20.00000	17.83591	pg	-11	15	
delta-BHC	B	12965	11663	20.00000	17.99108	pg	-10	15	
Heptachlor	B	8561.9	7033.6	20.00000	16.43008	pg	**-18**	15	c- ***
Aldrin	B	12159	11214	20.00000	18.44479	pg	-8	15	
Heptachlor epoxide	B	11128	10188	20.00000	18.31185	pg	-8	15	
gamma-Chlordane	B	11544	10712	20.00000	18.55877	pg	-7	15	
alpha-Chlordane	B	11128	10402	20.00000	18.69413	pg	-7	15	
4,4'-DDE	B	10944	10564	40.00000	38.61112	pg	-3	15	
Endosulfan I	B	10427	9660.8	20.00000	18.53099	pg	-7	15	
Dieldrin	B	11102	10114	40.00000	36.43801	pg	-9	15	
Endrin	B	8166.7	7037.9	40.00000	34.47103	pg	-14	15	
4,4'-DDD	B	9180.4	8196.3	40.00000	35.71202	pg	-11	15	
Endosulfan II	B	9634.2	8966.0	40.00000	37.22576	pg	-7	15	
4,4'-DDT	B	6626.8	5587.4	40.00000	33.72629	pg	**-16**	15	c- ***
Endrin aldehyde	B	7658.2	7050.7	40.00000	36.82741	pg	-8	15	
Methoxychlor	B	3060.9	2612.4	200.0000	170.6964	pg	-15	15	
Endosulfan sulfate	B	8711.7	7788.6	40.00000	35.76139	pg	-11	15	
Endrin ketone	B	10337	9381.7	40.00000	36.30376	pg	-9	15	
TCMX	B	9359.5	8401.4	40.00000	35.90537	pg	-10	15	
Decachlorobiphenyl	B	6102.7	5758.9	40.00000	37.74652	pg	-6	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				10	15	

-=low bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 4

Date : 10/11/04 10:32:04 AM
Data Acquisition Time : 10/10/04 8:02:30 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a004.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.815	354054.41	37.7548	1.000	1	37.75
alpha-BHC	9.439	275967.21	18.9933	1.000	1	18.99
gamma-BHC	10.334	249884.57	19.0481	1.000	1	19.05
beta-BHC	10.599	107814.42	19.3451	1.000	1	19.35
delta-BHC	11.082	245492.20	18.7004	1.000	1	18.70
Heptachlor	11.637	205309.29	19.0823	1.000	1	19.08
Aldrin	12.438	225098.00	18.5966	1.000	1	18.60
Heptachlor epoxide	14.038	210296.86	18.6423	1.000	1	18.64
gamma-Chlordane	14.360	211440.59	18.5651	1.000	1	18.57
alpha-Chlordane	14.697	203122.05	18.4185	1.000	1	18.42
4,4'-DDE	14.906	406242.32	37.2373	1.000	1	37.24
Endosulfan I	15.039	193792.10	18.6653	1.000	1	18.67
Dieldrin	15.649	412638.73	36.5399	1.000	1	36.54
Endrin	16.229	315304.50	36.0945	1.000	1	36.09
4,4'-DDD	16.413	319517.00	33.8307	1.000	1	33.83
Endosulfan II	16.796	353773.59	36.2841	1.000	1	36.28
4,4'-DDT	17.100	310070.00	40.5060	1.000	1	40.51
Endrin aldehyde	17.845	275406.57	35.9429	1.000	1	35.94
Methoxychlor	18.312	699741.83	207.0489	1.000	1	207.05
Endosulfan sulfate	18.922	301949.84	35.0470	1.000	1	35.05
Endrin ketone	19.602	369304.58	35.2228	1.000	1	35.22
Decachlorobiphenyl	21.581	232312.50	34.9742	1.000	1	34.97
		6478533.16	794.5403			794.54

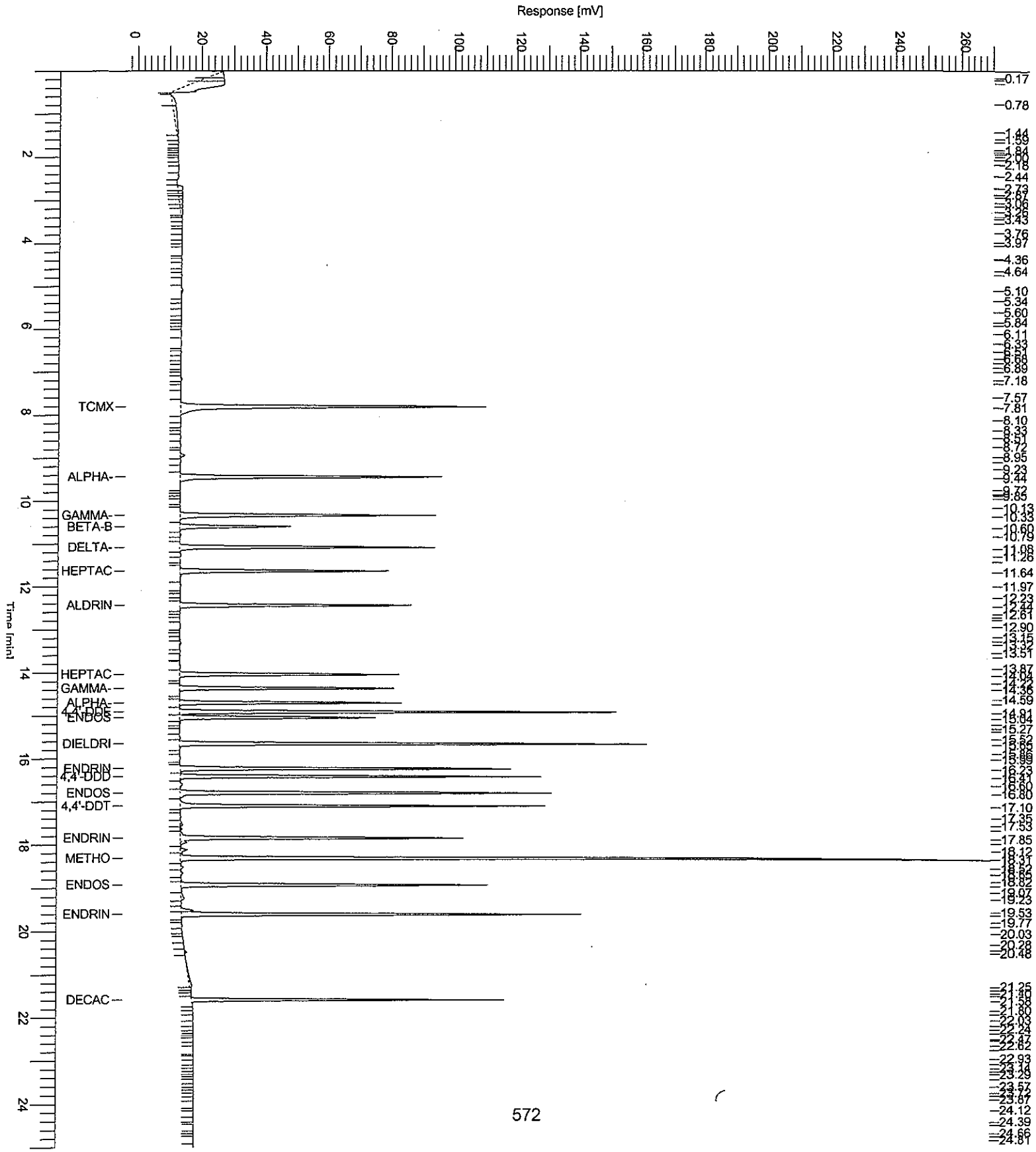
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a004.TX0

RA
10/12/04

GC23 Rtx-CLPesticides

Sample Name : x,ccv,04ws1632,pest_4 Sample #: 20/40 ug/L
FileName : G:\gc23\CHA\284a004.raw
Date : 10/11/04 10:32:06 AM
Method : gc23ins Time of Injection: 10/10/04 8:02:30 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -3.53 mV High Point : 270.21 mV
Scale Factor: 1.0 Plot Offset: -3.53 mV Plot Scale: 273.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 4

Date : 10/11/04 1:08:40 PM
Data Acquisition Time : 10/10/04 8:02:30 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b004p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

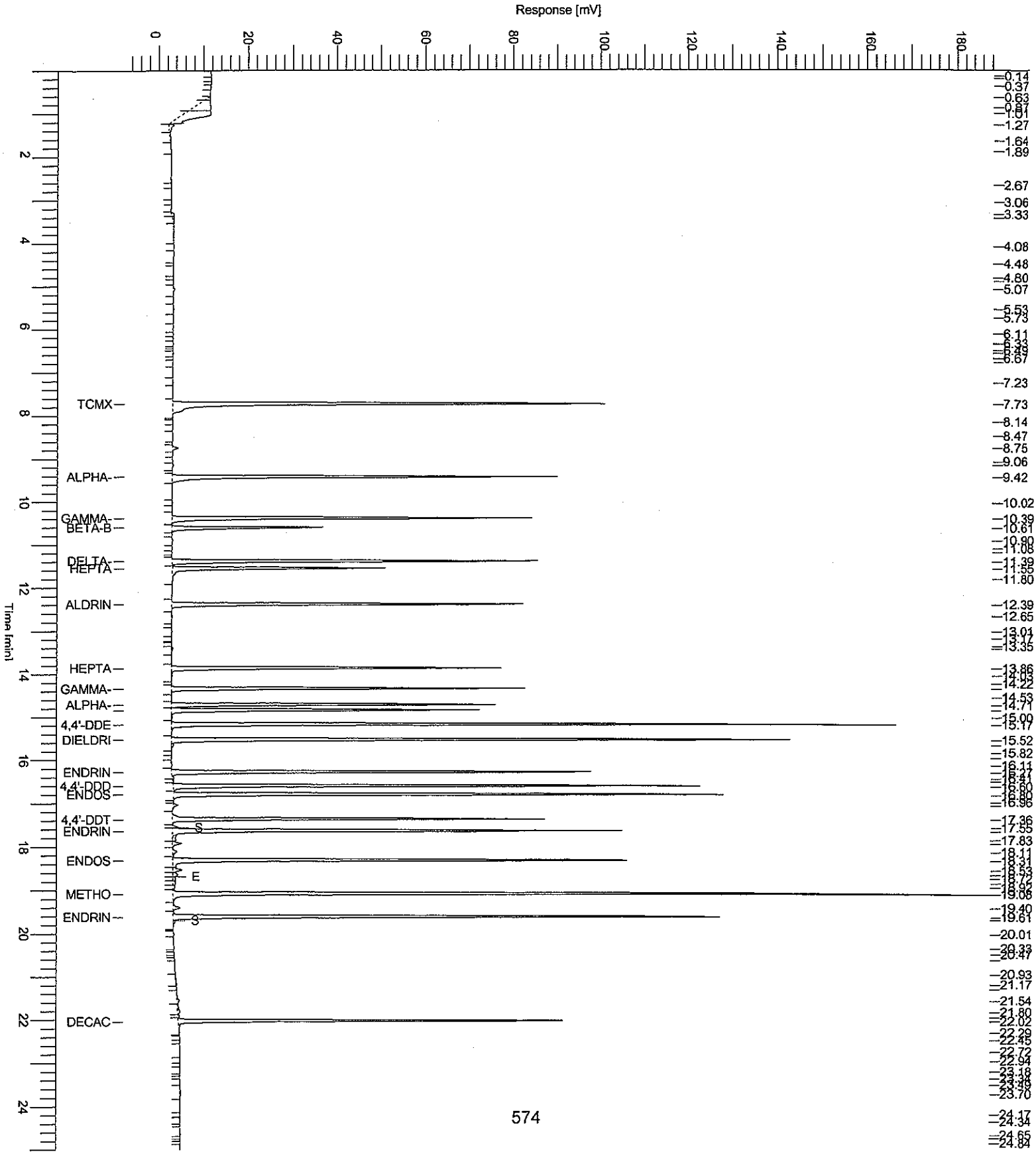
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.730	336057.00	35.9054	1.000	1	35.91
alpha-BHC	9.420	258638.50	18.0747	1.000	1	18.07
gamma-BHC	10.385	232207.00	17.9473	1.000	1	17.95
beta-BHC	10.605	103281.00	17.8359	1.000	1	17.84
delta-BHC	11.387	233254.50	17.9911	1.000	1	17.99
Heptachlor	11.553	140672.00	16.4301	1.000	1	16.43
Aldrin	12.387	224276.53	18.4448	1.000	1	18.44
Heptachlor epoxide	13.865	203766.20	18.3119	1.000	1	18.31
gamma-Chlordane	14.335	214235.79	18.5588	1.000	1	18.56
alpha-Chlordane	14.712	208032.93	18.6941	1.000	1	18.69
Endosulfan I	14.836	193215.50	18.5310	1.000	1	18.53
4,4'-DDE	15.168	422560.07	38.6111	1.000	1	38.61
Dieldrin	15.522	404551.00	36.4380	1.000	1	36.44
Endrin	16.272	281514.13	34.4710	1.000	1	34.47
4,4'-DDD	16.597	327851.00	35.7120	1.000	1	35.71
Endosulfan II	16.796	358639.00	37.2258	1.000	1	37.23
4,4'-DDT	17.365	223496.38	33.7263	1.000	1	33.73
Endrin aldehyde	17.633	282029.96	36.8274	1.000	1	36.83
Endosulfan sulfate	18.311	311542.01	35.7614	1.000	1	35.76
Methoxychlor	19.078	522488.77	170.6964	1.000	1	170.70
Endrin ketone	19.611	375268.05	36.3038	1.000	1	36.30
Decachlorobiphenyl	22.022	230355.26	37.7465	1.000	1	37.75
		6087932.60	750.2447			750.24

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\284b004p.TX0

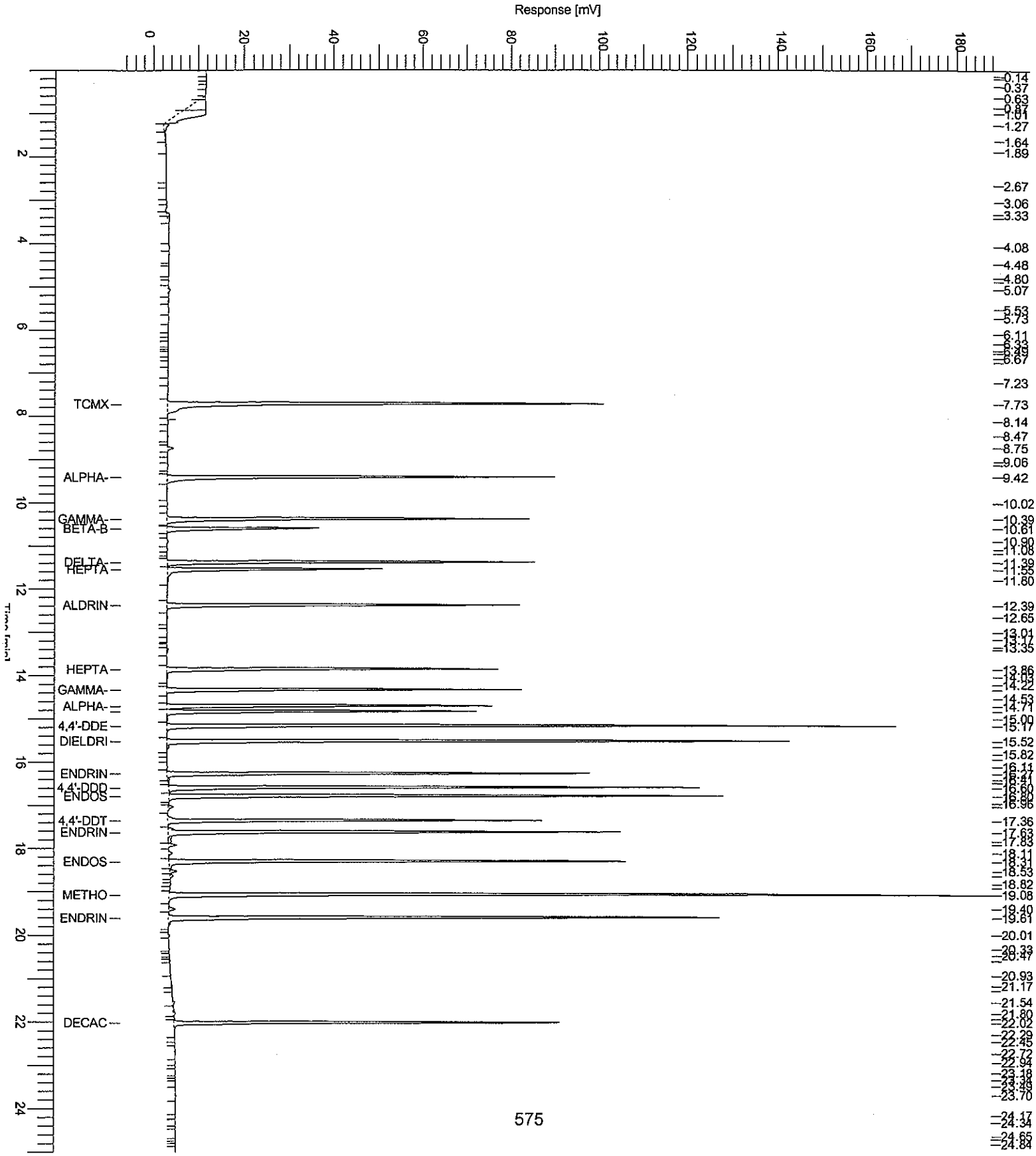
GC23 Rtx-CLPesticides2

Sample Name : x,ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
FileName : G:\gc23\CHb\284b004.raw
Date : 10/11/04 1:08:44 PM
Method :
Time of Injection: 10/10/04 8:02:30 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -7.67 mV High Point : 188.23 mV
Plot Offset: -7.67 mV Plot Scale: 195.9 mV



GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHb\284b004
ate : 10/11/04 10:32:22 AM
lethod : gc23lns Time of Injection: 10/10/04 8:02:30 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -7.17 mV High Point : 188.23 mV
cale Factor: 1.0 Plot Offset: -7.17 mV Plot Scale: 195.4 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063018 Run Name: Injected: 11-OCT-2004 03:03
Filename: 284_018 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	379200.11
Endrin aldehyde	A	17663.89
Endrin ketone	A	22762.17

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	760865.07
4,4'-DDE	A	2927.34
4,4'-DDD	A	24339.49

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	412288.73
Endrin aldehyde	B	18059.58
Endrin ketone	B	52852

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	665601.77
4,4'-DDE	B	4357.72
4,4'-DDD	B	69042.07

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 10/11/04 10:34:18 AM
Data Acquisition Time : 10/11/04 3:03:22 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a018.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.802	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.433	128932.88	8.8737	1.000	1	8.87
gamma-BHC	10.328	119757.00	9.1288	1.000	1	9.13
beta-BHC	10.589	52226.50	9.3710	1.000	1	9.37
delta-BHC	11.077	559.55	0.0426	1.000	1	0.04
Heptachlor	11.625	913.68	0.0849	1.000	1	0.08
Aldrin	12.455	524.41	0.0433	1.000	1	0.04
Heptachlor epoxide	14.038	751.31	0.0666	1.000	1	0.07
gamma-Chlordane	14.332	761.15	0.0668	1.000	1	0.07
alpha-Chlordane	14.683	0.00	0.0000	1.000	1	0.00
4,4'-DDE	14.902	2927.34	0.2683	1.000	1	0.27
Endosulfan I	15.033	558.50	0.0538	1.000	1	0.05
Dieldrin	15.634	854.43	0.0757	1.000	1	0.08
Endrin	16.219	379200.11	43.4090	1.000	1	43.41
4,4'-DDD	16.407	24339.49	2.5771	1.000	1	2.58
Endosulfan II	16.787	1069.82	0.1097	1.000	1	0.11
4,4'-DDT	17.096	760865.07	99.3956	1.000	1	99.40
Endrin aldehyde	17.834	17663.89	2.3053	1.000	1	2.31
Methoxychlor	18.302	852613.71	252.2826	1.000	1	252.28
Endosulfan sulfate	18.913	598.07	0.0694	1.000	1	0.07
Endrin ketone	19.597	22762.17	2.1710	1.000	1	2.17
Decachlorobiphenyl	21.571	0.00	0.0000	1.000	1	0.00
		2367879.07	430.3954			430.40

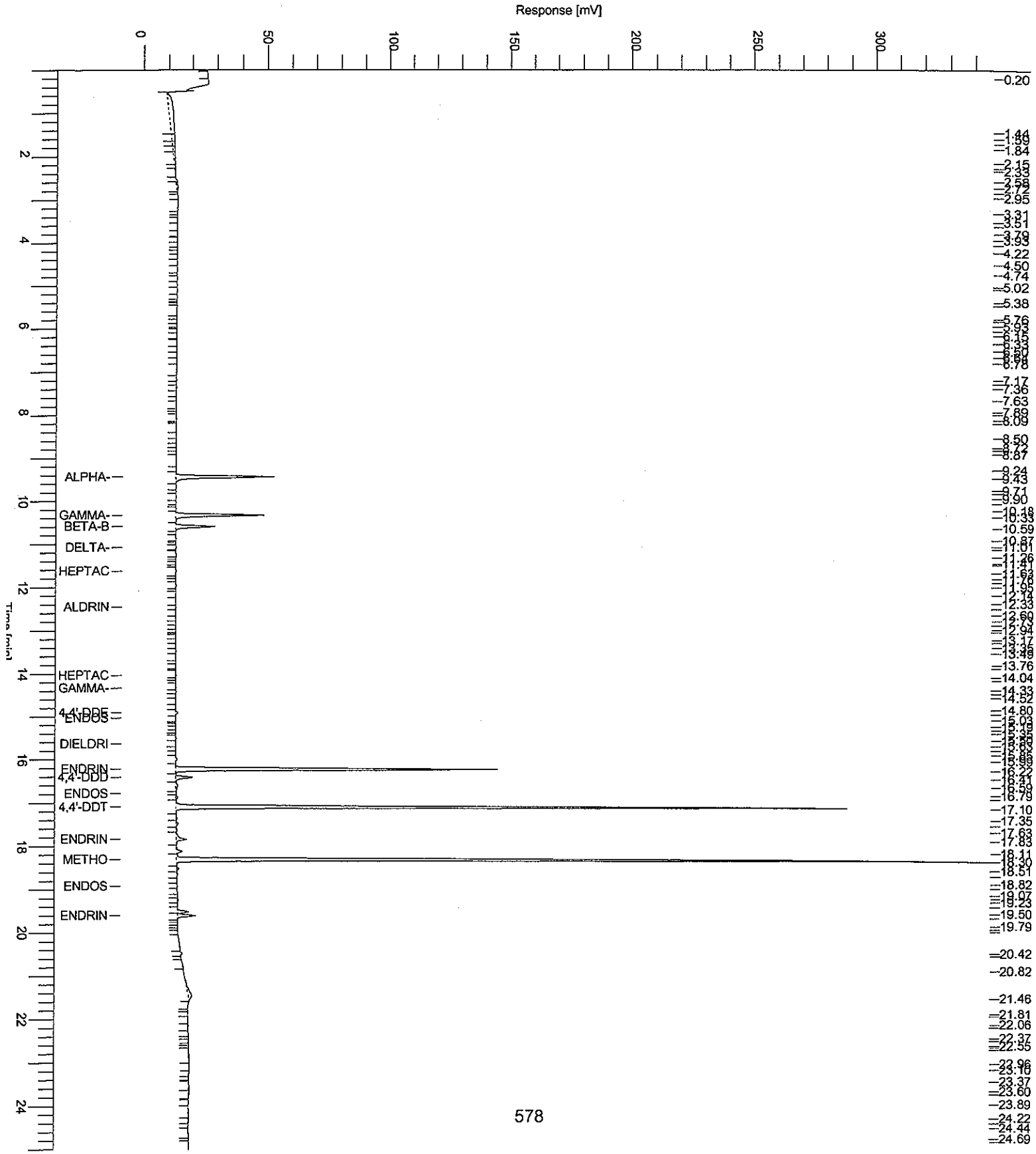
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a018.TX0

PAB
10/12/04

GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHa\284a018.raw
ate : 10/11/04 10:34:21 AM
ethod : gc23ins Time of Injection: 10/11/04 3:03:22 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.04 mV High Point : 347.13 mV
cale Factor: 1.0 Plot Offset: -8.04 mV Plot Scale: 355.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 10/11/04 10:33:54 AM
Data Acquisition Time : 10/11/04 3:03:22 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b018.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

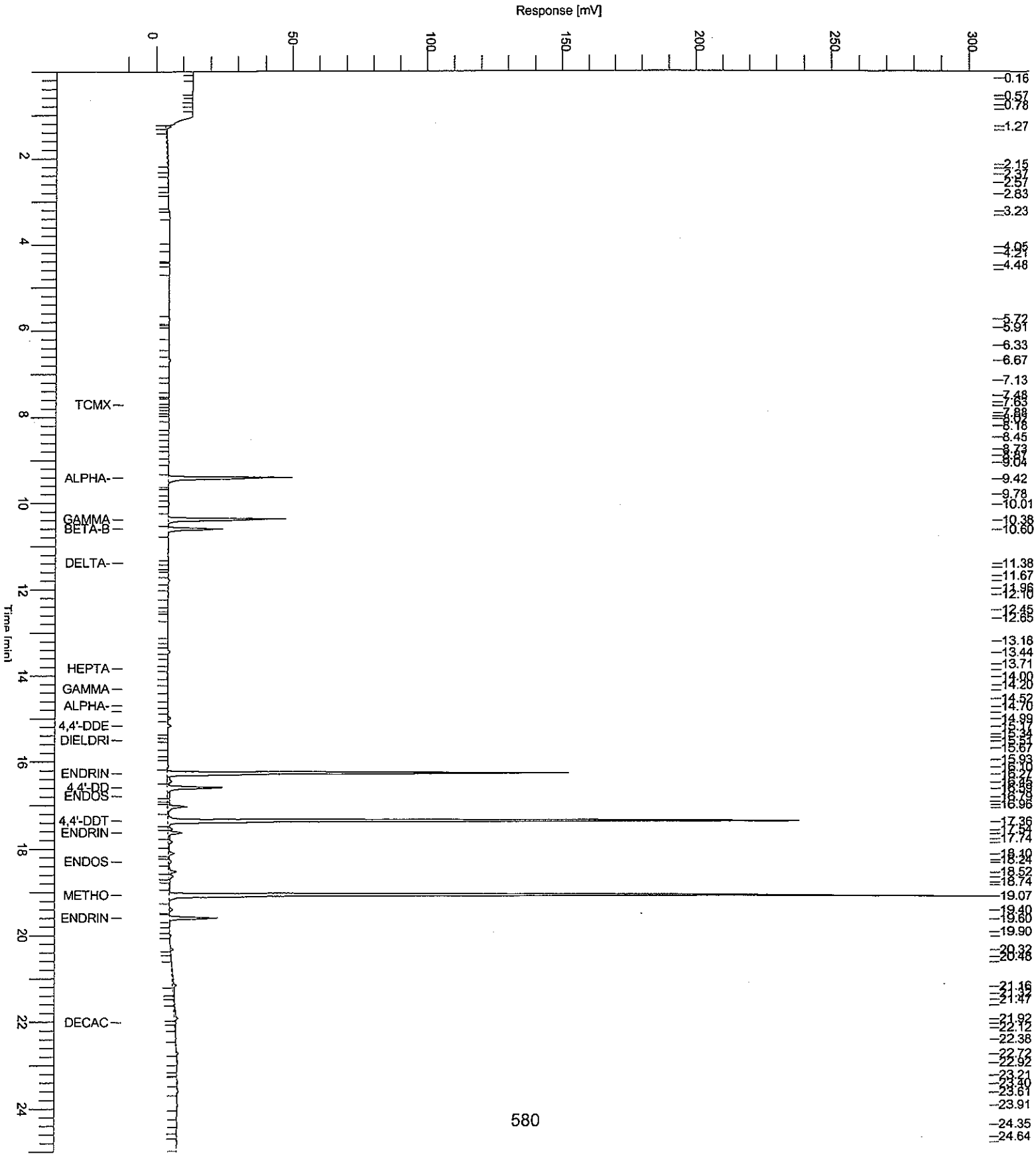
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.710	90.51	0.0097	1.000	1	0.01
alpha-BHC	9.417	138037.50	9.6466	1.000	1	9.65
gamma-BHC	10.382	129040.00	9.9735	1.000	1	9.97
beta-BHC	10.602	58348.00	10.0763	1.000	1	10.08
delta-BHC	11.384	203.09	0.0157	1.000	1	0.02
Heptachlor	11.553	0.00	0.0000	1.000	1	0.00
Aldrin	12.388	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.838	1146.89	0.1031	1.000	1	0.10
gamma-Chlordane	14.314	2663.00	0.2307	1.000	1	0.23
alpha-Chlordane	14.704	1157.88	0.1040	1.000	1	0.10
Endosulfan I	14.832	1322.16	0.1268	1.000	1	0.13
4,4'-DDE	15.167	4357.72	0.3982	1.000	1	0.40
Dieldrin	15.507	226.99	0.0204	1.000	1	0.02
Endrin	16.267	412288.73	50.4842	1.000	1	50.48
4,4'-DDD	16.590	69042.07	7.5206	1.000	1	7.52
Endosulfan II	16.788	6727.00	0.6982	1.000	1	0.70
4,4'-DDT	17.356	665601.77	100.4413	1.000	1	100.44
Endrin aldehyde	17.630	18059.58	2.3582	1.000	1	2.36
Endosulfan sulfate	18.295	5487.47	0.6299	1.000	1	0.63
Methoxychlor	19.069	777983.09	254.1660	1.000	1	254.17
Endrin ketone	19.598	52852.00	5.1129	1.000	1	5.11
Decachlorobiphenyl	22.015	3037.98	0.4978	1.000	1	0.50
		2347673.44	452.6143			452.61

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\284b018.TX0

GC23 Rtx-CLPesticides2

Sample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
FileName : G:\gc23\CHb\284b018
Date : 10/11/04 10:33:56 AM
Method : gc23ins Time of Injection: 10/11/04 3:03:22 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -11.85 mV High Point : 309.31 mV
Scale Factor: 1.0 Plot Offset: -11.85 mV Plot Scale: 321.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804410063019 Filename : 284_019 Injected : 11-OCT-2004 03:33
Calnum : 804386835001 Caldate : 24-SEP-2004 Caltype :
Standards: 04WS1630

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13511	10.00000	9.298587	pg	-7	15	
gamma-BHC	A	13119	12361	10.00000	9.422357	pg	-6	15	
beta-BHC	A	5573.2	5460.1	10.00000	9.796993	pg	-2	15	
delta-BHC	A	13128	12050	10.00000	9.178741	pg	-8	15	
Heptachlor	A	10759	10237	10.00000	9.514354	pg	-5	15	
Aldrin	A	12104	11216	10.00000	9.266009	pg	-7	15	
Heptachlor epoxide	A	11281	10452	10.00000	9.265637	pg	-7	15	
gamma-Chlordane	A	11389	10440	10.00000	9.166631	pg	-8	15	
alpha-Chlordane	A	11028	10084	10.00000	9.143772	pg	-9	15	
4,4'-DDE	A	10910	9745.4	20.00000	17.86582	pg	-11	15	
Endosulfan I	A	10383	9698.5	10.00000	9.341207	pg	-7	15	
Dieldrin	A	11293	10186	20.00000	18.03949	pg	-10	15	
Endrin	A	8735.5	7557.9	20.00000	17.30385	pg	-13	15	
4,4'-DDD	A	9444.6	8242.4	20.00000	17.45435	pg	-13	15	
Endosulfan II	A	9750.1	8768.6	20.00000	17.98678	pg	-10	15	
4,4'-DDT	A	7654.9	7338.8	20.00000	19.17402	pg	-4	15	
Endrin aldehyde	A	7662.3	7200.6	20.00000	18.79478	pg	-6	15	
Methoxychlor	A	3379.6	3252.5	100.0000	96.23943	pg	-4	15	
Endosulfan sulfate	A	8615.6	7694.3	20.00000	17.86149	pg	-11	15	
Endrin ketone	A	10485	9555.0	20.00000	18.22637	pg	-9	15	
TCMX	A	9377.7	8848.0	20.00000	18.87026	pg	-6	15	
Decachlorobiphenyl	A	6642.4	5802.7	20.00000	17.47176	pg	-13	15	
alpha-BHC	B	14309	12839	10.00000	8.972354	pg	-10	15	
gamma-BHC	B	12938	11734	10.00000	9.068899	pg	-9	15	
beta-BHC	B	5790.6	5345.1	10.00000	9.230617	pg	-8	15	
delta-BHC	B	12965	11577	10.00000	8.929032	pg	-11	15	
Heptachlor	B	8561.9	7492.0	10.00000	8.750438	pg	-12	15	
Aldrin	B	12159	11209	10.00000	9.218139	pg	-8	15	
Heptachlor epoxide	B	11128	10349	10.00000	9.300692	pg	-7	15	
gamma-Chlordane	B	11544	10575	10.00000	9.160898	pg	-8	15	
alpha-Chlordane	B	11128	10289	10.00000	9.246018	pg	-8	15	
4,4'-DDE	B	10944	10126	20.00000	18.50548	pg	-7	15	
Endosulfan I	B	10427	9763.4	10.00000	9.363957	pg	-6	15	
Dieldrin	B	11102	10272	20.00000	18.50381	pg	-7	15	
Endrin	B	8166.7	7082.6	20.00000	17.34511	pg	-13	15	
4,4'-DDD	B	9180.4	8807.5	20.00000	19.18760	pg	-4	15	
Endosulfan II	B	9634.2	8977.3	20.00000	18.63629	pg	-7	15	
4,4'-DDT	B	6626.8	5375.6	20.00000	16.22392	pg	-19	15	c- ***
Endrin aldehyde	B	7658.2	7363.1	20.00000	19.22943	pg	-4	15	
Methoxychlor	B	3060.9	2677.3	100.0000	87.46747	pg	-13	15	
Endosulfan sulfate	B	8711.7	7907.7	20.00000	18.15430	pg	-9	15	
Endrin ketone	B	10337	10149	20.00000	19.63737	pg	-2	15	
TCMX	B	9359.5	8567.2	20.00000	18.30682	pg	-8	15	
Decachlorobiphenyl	B	6102.7	5711.6	20.00000	18.71816	pg	-6	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				9	15	

-=low bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 10/11/04 1:14:26 PM
Data Acquisition Time : 10/11/04 3:33:22 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a019p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.814	176960.18	18.8703	1.000	1	18.87
alpha-BHC	9.438	135105.81	9.2986	1.000	1	9.30
gamma-BHC	10.333	123607.90	9.4224	1.000	1	9.42
beta-BHC	10.598	54600.83	9.7970	1.000	1	9.80
delta-BHC	11.081	120495.00	9.1787	1.000	1	9.18
Heptachlor	11.636	102366.31	9.5144	1.000	1	9.51
Aldrin	12.437	112158.00	9.2660	1.000	1	9.27
Heptachlor epoxide	14.038	104522.00	9.2656	1.000	1	9.27
gamma-Chlordane	14.356	104400.00	9.1666	1.000	1	9.17
alpha-Chlordane	14.697	100839.00	9.1438	1.000	1	9.14
4,4'-DDE	14.906	194907.87	17.8658	1.000	1	17.87
Endosulfan I	15.039	96985.13	9.3412	1.000	1	9.34
Dieldrin	15.649	203716.98	18.0395	1.000	1	18.04
Endrin	16.228	151158.05	17.3038	1.000	1	17.30
4,4'-DDD	16.413	164848.95	17.4544	1.000	1	17.45
Endosulfan II	16.796	175372.96	17.9868	1.000	1	17.99
4,4'-DDT	17.101	146775.47	19.1740	1.000	1	19.17
Endrin aldehyde	17.845	144011.80	18.7948	1.000	1	18.79
Methoxychlor	18.312	325250.52	96.2394	1.000	1	96.24
Endosulfan sulfate	18.923	153886.75	17.8615	1.000	1	17.86
Endrin ketone	19.602	191100.17	18.2264	1.000	1	18.23
Decachlorobiphenyl	21.581	116054.28	17.4718	1.000	1	17.47
		3199123.96	388.6827			388.68

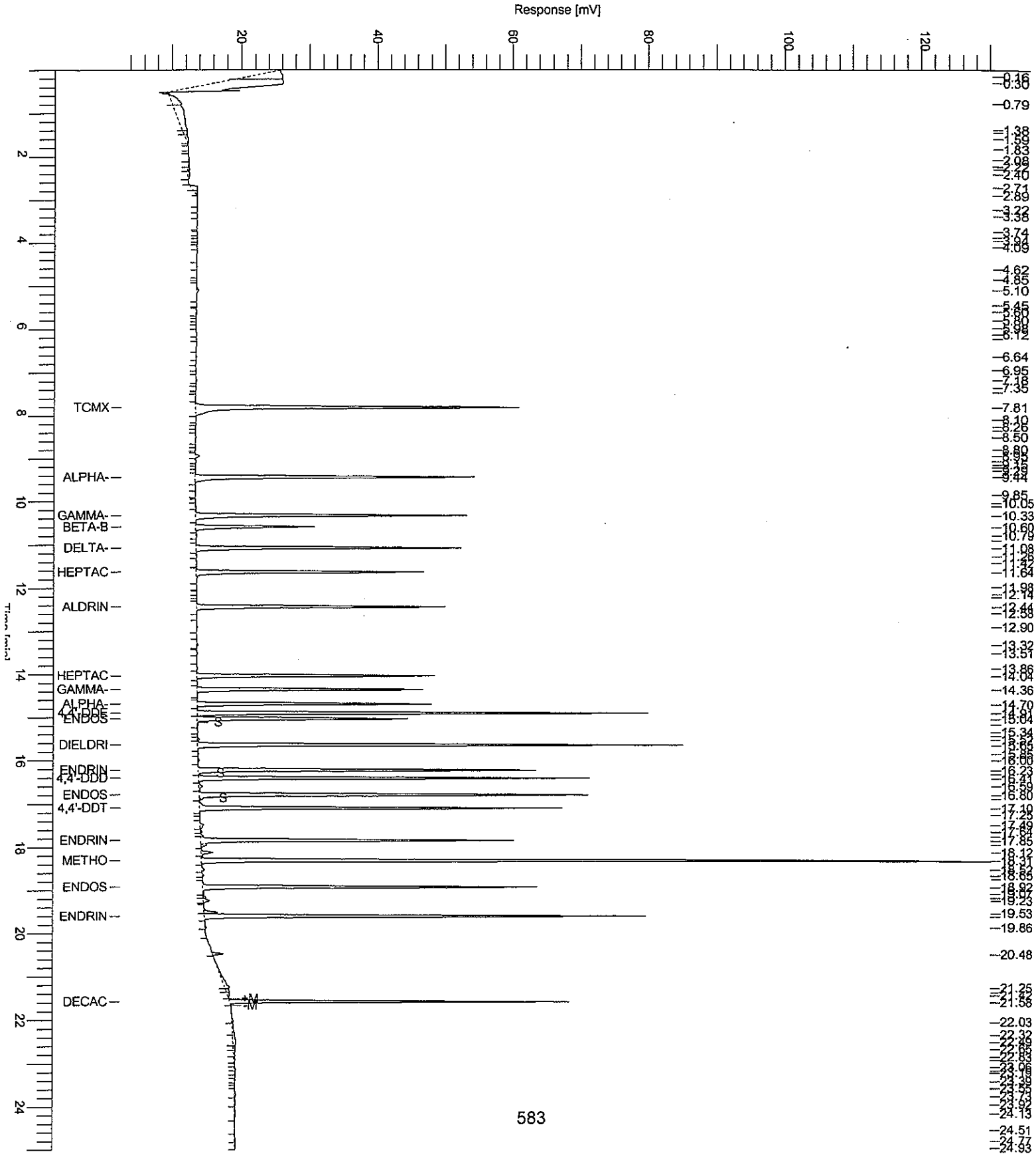
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a019p.TX0

RN
10/12/04

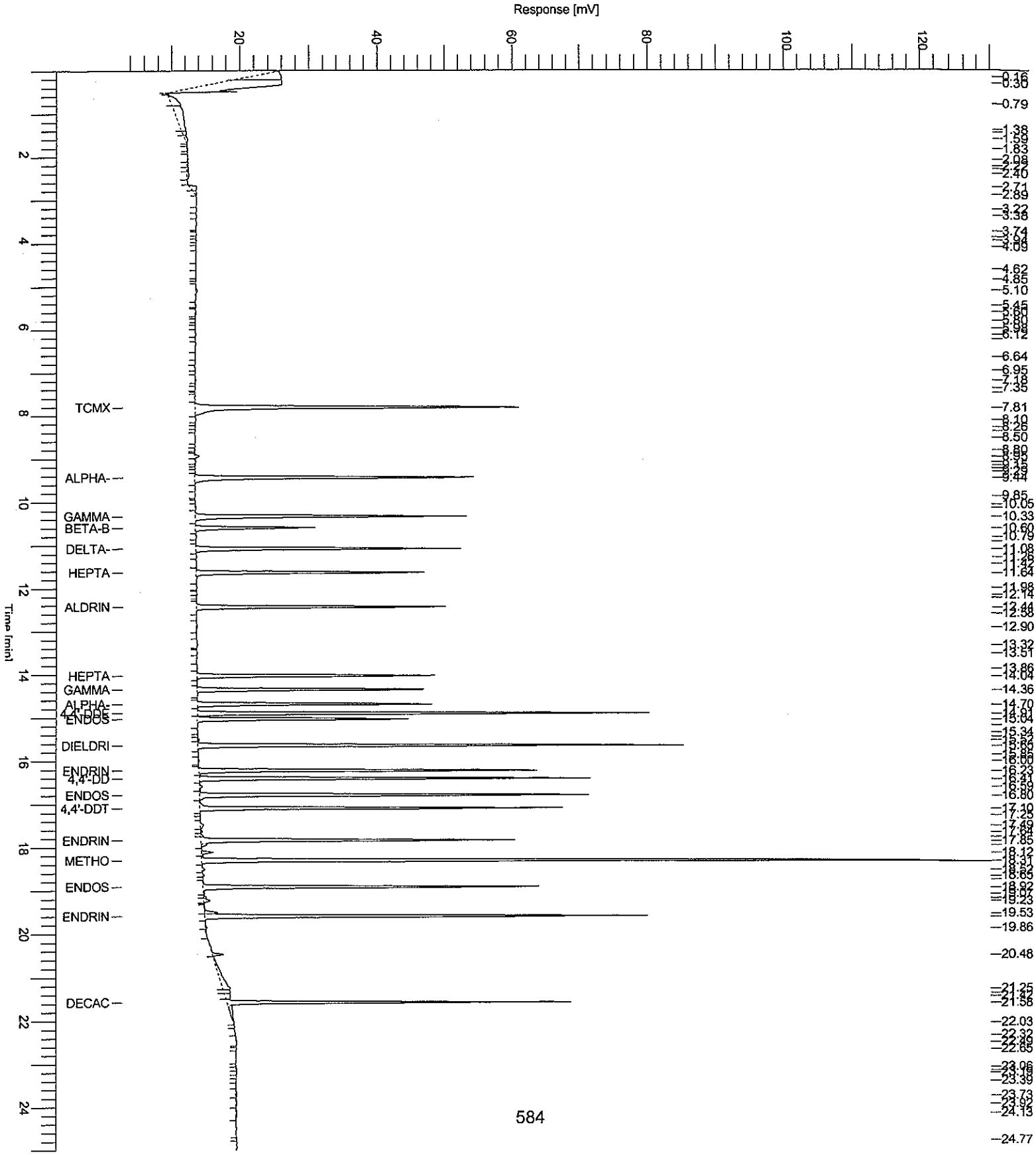
GC23 Rtx-CLPesticides

ample Name : ccv,04ws1630,pest_3 Sample #: 10/20 ug/L Page 1 of 1
ileName : G:\gc23\CHa\284a019.raw
ate : 10/11/04 1:14:31 PM
lethod : Time of Injection: 10/11/04 3:33:22 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.67 mV High Point : 130.36 mV
lot Offset: 2.67 mV Plot Scale: 127.7 mV



GC23 Rtx-CLPesticides

ample Name : ccv,04ws1630,pest_3 Sample #: 10/20 ug/L Page 1 of 1
ileName : G:\gc23\CHa\284a019.raw
ate : 10/11/04 10:34:27 AM
lethod : gc23ins Time of Injection: 10/11/04 3:33:22 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.99 mV High Point : 130.36 mV
cale Factor: 1.0 Plot Offset: 2.99 mV Plot Scale: 127.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 10/11/04 1:12:42 PM
Data Acquisition Time : 10/11/04 3:33:22 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b019p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.730	171343.00	18.3068	1.000	1	18.31
alpha-BHC	9.420	128388.89	8.9724	1.000	1	8.97
gamma-BHC	10.385	117335.91	9.0689	1.000	1	9.07
beta-BHC	10.606	53451.00	9.2306	1.000	1	9.23
delta-BHC	11.387	115765.00	8.9290	1.000	1	8.93
Heptachlor	11.552	74920.00	8.7504	1.000	1	8.75
Aldrin	12.387	112086.53	9.2181	1.000	1	9.22
Heptachlor epoxide	13.865	103494.00	9.3007	1.000	1	9.30
gamma-Chlordane	14.336	105750.14	9.1609	1.000	1	9.16
alpha-Chlordane	14.713	102892.01	9.2460	1.000	1	9.25
Endosulfan I	14.838	97634.36	9.3640	1.000	1	9.36
4,4'-DDE	15.169	202524.00	18.5055	1.000	1	18.51
Dieldrin	15.527	205437.50	18.5038	1.000	1	18.50
Endrin	16.273	141652.07	17.3451	1.000	1	17.35
4,4'-DDD	16.598	176150.00	19.1876	1.000	1	19.19
Endosulfan II	16.797	179545.00	18.6363	1.000	1	18.64
4,4'-DDT	17.366	107512.18	16.2239	1.000	1	16.22
Endrin aldehyde	17.634	147261.96	19.2294	1.000	1	19.23
Endosulfan sulfate	18.311	158154.54	18.1543	1.000	1	18.15
Methoxychlor	19.079	267731.34	87.4675	1.000	1	87.47
Endrin ketone	19.612	202989.38	19.6374	1.000	1	19.64
Decachlorobiphenyl	22.022	114231.13	18.7182	1.000	1	18.72
		3086249.94	381.1568			381.16

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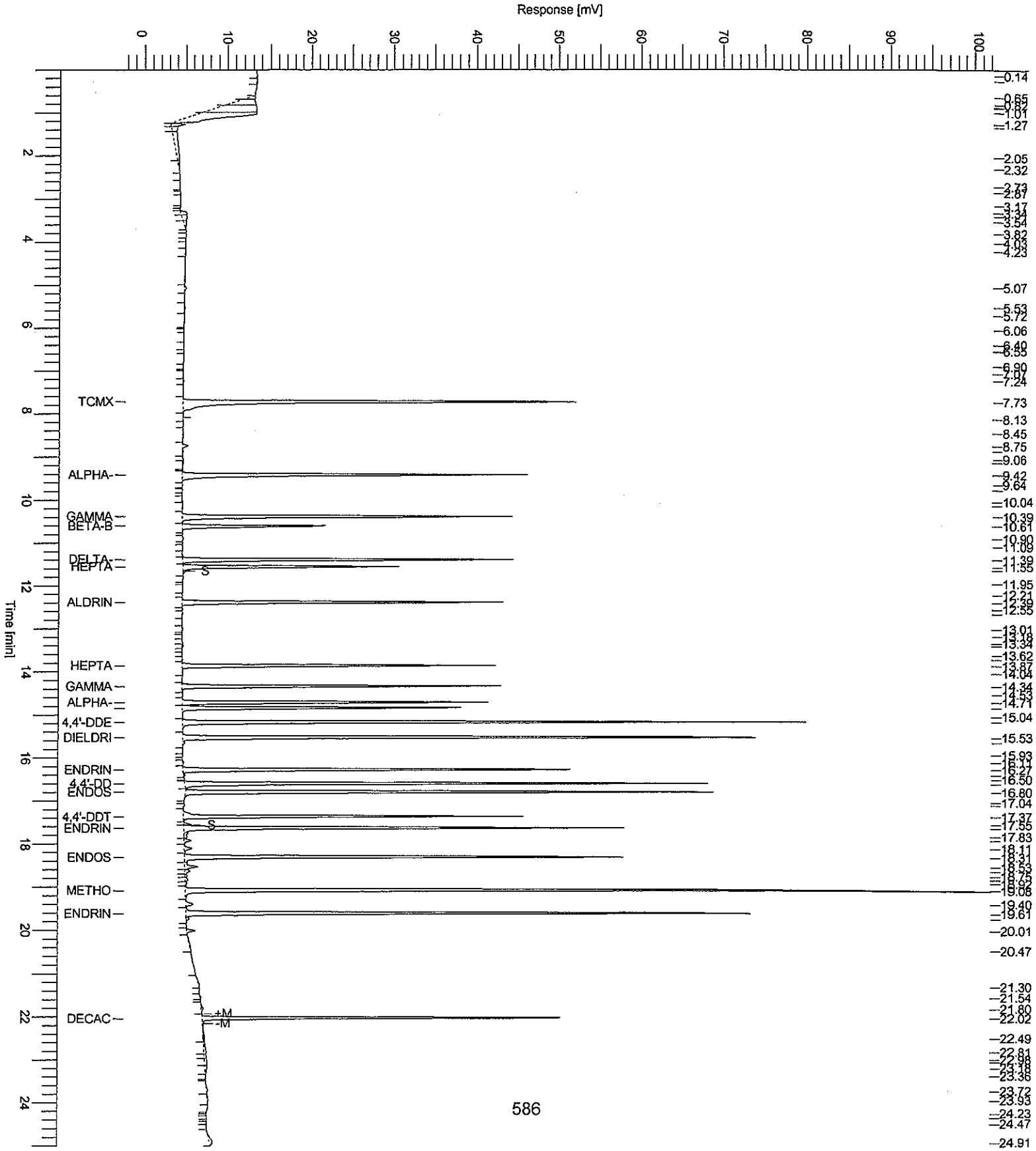
Report stored in ASCII file: G:\gc23\CHB\284b019p.TX0

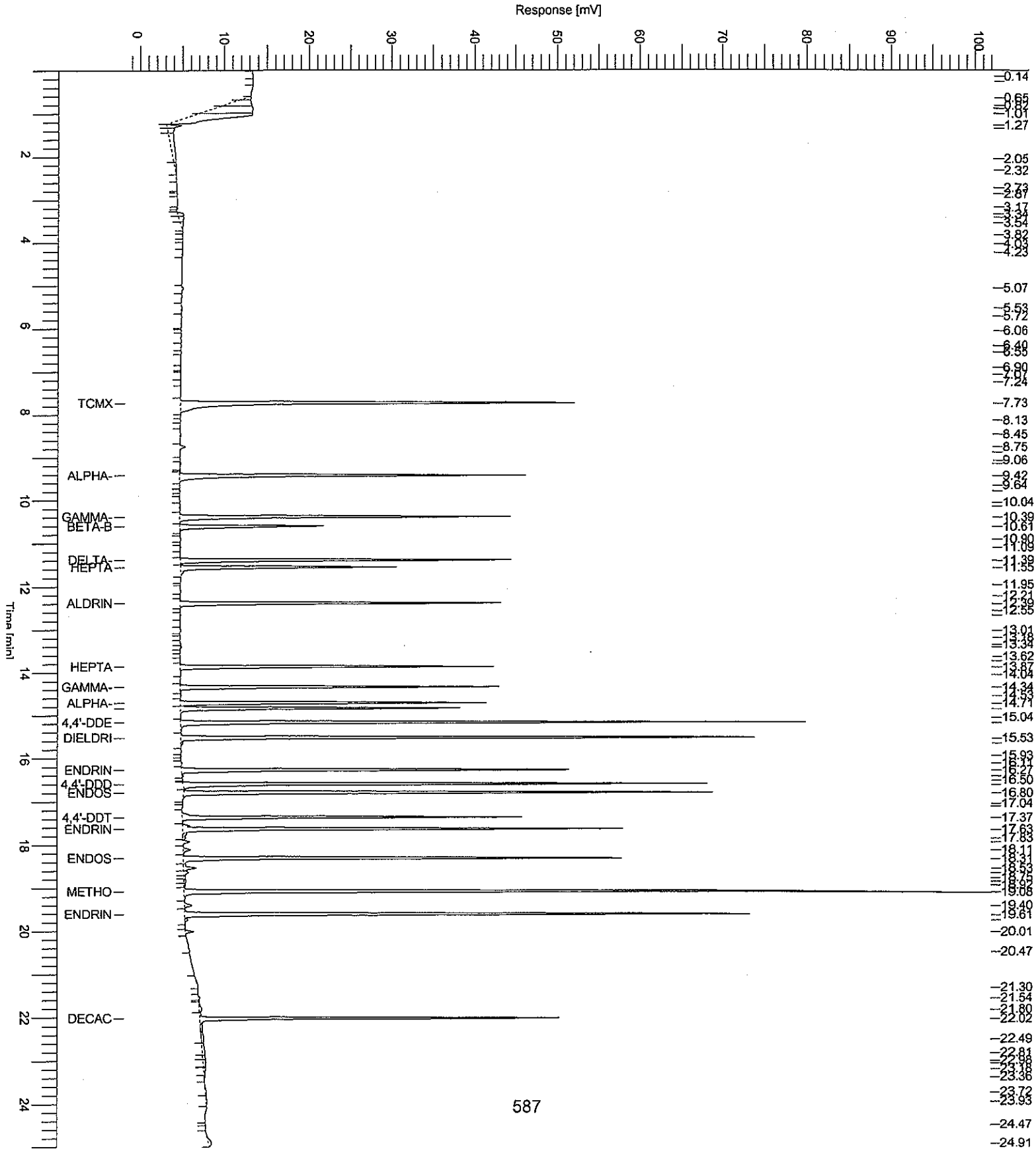
GC23 Rtx-CLPesticides2

Sample Name : ccv,04ws1630,pest_3 Sample #: 10/20 ug/L Page 1 of 1
FileName : G:\gc23\CHb\284b019.raw
Date : 10/11/04 1:12:46 PM
Method : Time of Injection: 10/11/04 3:33:22 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -2.17 mV High Point : 102.22 mV
Plot Offset: -2.17 mV Plot Scale: 104.4 mV



GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1630,pest_3 Sample #: 10/20 ug/L Page 1 of 1
ileName : G:\gc23\CHb\284b019
ate : 10/11/04 10:34:01 AM
lethod : gc23ins Time of Injection: 10/11/04 3:33:22 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.91 mV High Point : 102.22 mV
cale Factor: 1.0 Plot Offset: -1.91 mV Plot Scale: 104.1 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063035 Run Name: Injected: 11-OCT-2004 11:34
Filename: 284_035 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	378869.65
Endrin aldehyde	A	11521.58
Endrin ketone	A	19340.62

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	674057.95
4,4'-DDE	A	4016.08
4,4'-DDD	A	38194.33

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	445984.18
Endrin aldehyde	B	10403.76
Endrin ketone	B	66897.6

Endrin Breakdown %: 15
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	625551.04
4,4'-DDE	B	3768.88
4,4'-DDD	B	99908.41

4,4'-DDT Breakdown %: 14
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 10/11/04 12:46:16 PM
Data Acquisition Time : 10/11/04 11:34:07 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a035.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.802	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.436	129523.00	8.9144	1.000	1	8.91
gamma-BHC	10.332	119927.86	9.1418	1.000	1	9.14
beta-BHC	10.597	51762.14	9.2876	1.000	1	9.29
delta-BHC	11.100	1432.68	0.1091	1.000	1	0.11
Heptachlor	11.615	1282.50	0.1192	1.000	1	0.12
Aldrin	12.387	227.77	0.0188	1.000	1	0.02
Heptachlor epoxide	14.049	619.33	0.0549	1.000	1	0.05
gamma-Chlordane	14.352	573.02	0.0503	1.000	1	0.05
alpha-Chlordane	14.693	343.73	0.0312	1.000	1	0.03
4,4'-DDE	14.912	4016.08	0.3681	1.000	1	0.37
Endosulfan I	15.030	0.00	0.0000	1.000	1	0.00
Dieldrin	15.631	3257.86	0.2885	1.000	1	0.29
Endrin	16.229	378869.65	43.3712	1.000	1	43.37
4,4'-DDD	16.415	38194.33	4.0440	1.000	1	4.04
Endosulfan II	16.782	0.00	0.0000	1.000	1	0.00
4,4'-DDT	17.100	674057.95	88.0556	1.000	1	88.06
Endrin aldehyde	17.843	11521.58	1.5037	1.000	1	1.50
Methoxychlor	18.312	775982.70	229.6080	1.000	1	229.61
Endosulfan sulfate	18.914	0.00	0.0000	1.000	1	0.00
Endrin ketone	19.602	19340.62	1.8446	1.000	1	1.84
Decachlorobiphenyl	21.550	3465.00	0.5216	1.000	1	0.52
		2214397.81	397.3328			397.33

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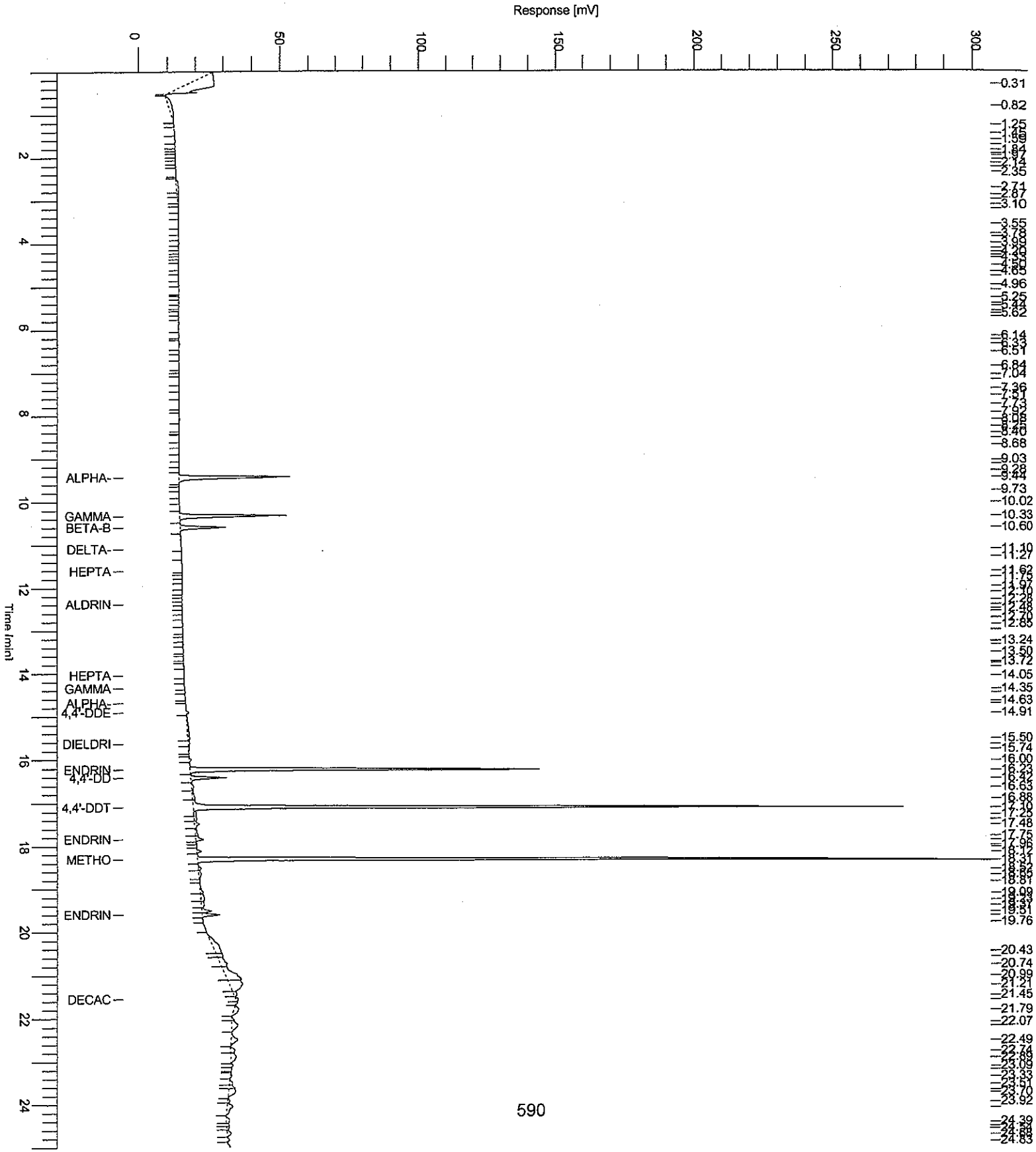
Report stored in ASCII file: G:\gc23\CHA\284a035.TX0

RM
10/12/04

GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHA\284a035.raw
ate : 10/11/04 12:46:18 PM
ethod : gc23ins Time of Injection: 10/11/04 11:34:07 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -5.60 mV High Point : 306.41 mV
cale Factor: 1.0 Plot Offset: -5.60 mV Plot Scale: 312.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 10/11/04 12:46:23 PM
Data Acquisition Time : 10/11/04 11:34:07 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHb\284b035.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.722	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.418	143865.50	10.0539	1.000	1	10.05
gamma-BHC	10.383	135588.43	10.4796	1.000	1	10.48
beta-BHC	10.603	60743.25	10.4899	1.000	1	10.49
delta-BHC	11.384	266.40	0.0205	1.000	1	0.02
Heptachlor	11.553	0.00	0.0000	1.000	1	0.00
Aldrin	12.351	187.04	0.0154	1.000	1	0.02
Heptachlor epoxide	13.841	2145.85	0.1928	1.000	1	0.19
gamma-Chlordane	14.314	17579.07	1.5228	1.000	1	1.52
alpha-Chlordane	14.698	6815.49	0.6124	1.000	1	0.61
Endosulfan I	14.833	4362.95	0.4184	1.000	1	0.42
4,4'-DDE	15.170	3768.88	0.3444	1.000	1	0.34
Dieldrin	15.533	229.37	0.0207	1.000	1	0.02
Endrin	16.271	445984.18	54.6102	1.000	1	54.61
4,4'-DDD	16.598	99908.41	10.8828	1.000	1	10.88
Endosulfan II	16.802	7727.00	0.8020	1.000	1	0.80
4,4'-DDT	17.365	625551.04	94.3976	1.000	1	94.40
Endrin aldehyde	17.634	10403.76	1.3585	1.000	1	1.36
Endosulfan sulfate	18.301	6526.12	0.7491	1.000	1	0.75
Methoxychlor	19.079	764500.77	249.7614	1.000	1	249.76
Endrin ketone	19.604	66897.60	6.4717	1.000	1	6.47
Decachlorobiphenyl	22.009	21394.91	3.5058	1.000	1	3.51
		2424446.03	456.7102			456.71

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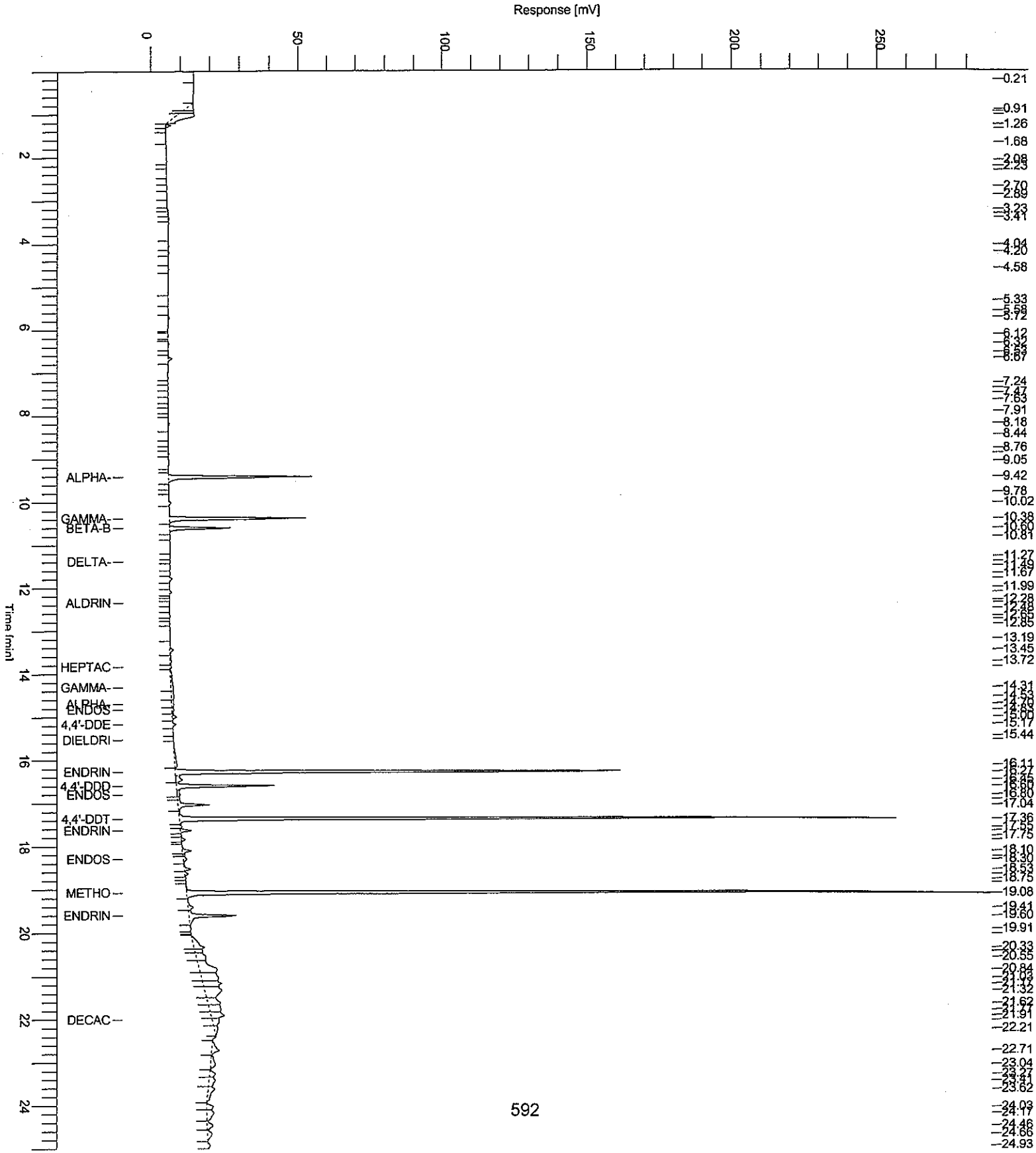
Report stored in ASCII file: G:\gc23\CHb\284b035.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHB\284b035.raw
ate : 10/11/04 12:46:25 PM
ethod : gc23ins Time of Injection: 10/11/04 11:34:07 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -9.27 mV High Point : 288.95 mV
cale Factor: 1.0 Plot Offset: -9.27 mV Plot Scale: 298.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804410063036
Calnum : 804386835001
Standards: 04WS1632

Run Name : pest_4
Filename : 284_036
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 11-OCT-2004 12:04
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	12974	20.00000	17.85810	pg	-11	15	
gamma-BHC	A	13119	11633	20.00000	17.73566	pg	-11	15	
beta-BHC	A	5573.2	5026.6	20.00000	18.03851	pg	-10	15	
delta-BHC	A	13128	11512	20.00000	17.53935	pg	-12	15	
Heptachlor	A	10759	9691.7	20.00000	18.01565	pg	-10	15	
Aldrin	A	12104	10548	20.00000	17.42840	pg	-13	15	
Heptachlor epoxide	A	11281	9811.1	20.00000	17.39468	pg	-13	15	
gamma-Chlordane	A	11389	9788.0	20.00000	17.18822	pg	-14	15	
alpha-Chlordane	A	11028	9432.4	20.00000	17.10593	pg	-14	15	
4,4'-DDE	A	10910	9436.1	40.00000	34.59744	pg	-14	15	
Endosulfan I	A	10383	9027.4	20.00000	17.38962	pg	-13	15	
Dieldrin	A	11293	9770.7	40.00000	34.60834	pg	-13	15	
Endrin	A	8735.5	7793.3	40.00000	35.68541	pg	-11	15	
4,4'-DDD	A	9444.6	8005.4	40.00000	33.90454	pg	-15	15	
Endosulfan II	A	9750.1	8215.0	40.00000	33.70204	pg	**-16**	15	c- ***
4,4'-DDT	A	7654.9	6425.3	40.00000	33.57501	pg	**-16**	15	c- ***
Endrin aldehyde	A	7662.3	6252.9	40.00000	32.64254	pg	**-18**	15	c- ***
Methoxychlor	A	3379.6	3101.5	200.0000	183.5434	pg	-8	15	
Endosulfan sulfate	A	8615.6	7258.8	40.00000	33.70087	pg	**-16**	15	c- ***
Endrin ketone	A	10485	8804.8	40.00000	33.59069	pg	**-16**	15	c- ***
TCMX	A	9377.7	8310.4	40.00000	35.44718	pg	-11	15	
Decachlorobiphenyl	A	6642.4	4914.7	40.00000	29.59577	pg	**-26**	15	c-
alpha-BHC	B	14309	14586	20.00000	20.38713	pg	2	15	
gamma-BHC	B	12938	13158	20.00000	20.33964	pg	2	15	
beta-BHC	B	5790.6	5879.0	20.00000	20.30508	pg	2	15	
delta-BHC	B	12965	13360	20.00000	20.60897	pg	3	15	
Heptachlor	B	8561.9	9117.0	20.00000	21.29666	pg	6	15	
Aldrin	B	12159	12443	20.00000	20.46644	pg	2	15	
Heptachlor epoxide	B	11128	11562	20.00000	20.78070	pg	4	15	
gamma-Chlordane	B	11544	11854	20.00000	20.53700	pg	3	15	
alpha-Chlordane	B	11128	11499	20.00000	20.66718	pg	3	15	
4,4'-DDE	B	10944	11518	40.00000	42.09709	pg	5	15	
Endosulfan I	B	10427	10881	20.00000	20.87175	pg	4	15	
Dieldrin	B	11102	11656	40.00000	41.99552	pg	5	15	
Endrin	B	8166.7	9135.6	40.00000	44.74558	pg	12	15	
4,4'-DDD	B	9180.4	10063	40.00000	43.84620	pg	10	15	
Endosulfan II	B	9634.2	10057	40.00000	41.75672	pg	4	15	
4,4'-DDT	B	6626.8	6491.7	40.00000	39.18455	pg	-2	15	
Endrin aldehyde	B	7658.2	7732.6	40.00000	40.38896	pg	1	15	
Methoxychlor	B	3060.9	3272.2	200.0000	213.8023	pg	7	15	
Endosulfan sulfate	B	8711.7	8926.8	40.00000	40.98783	pg	2	15	
Endrin ketone	B	10337	10704	40.00000	41.41927	pg	4	15	
TCMX	B	9359.5	9318.7	40.00000	39.82545	pg	0	15	
Decachlorobiphenyl	B	6102.7	5894.0	40.00000	38.63235	pg	-3	15	
Average EPA 8081A	A		(count=22)				14	15	
Average EPA 8081A	B		(count=22)				4	15	

-=low bias c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 36

Date : 10/11/04 2:42:15 PM
Data Acquisition Time : 10/11/04 12:04:10 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a036p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.813	332414.00	35.4472	1.000	1	35.45
alpha-BHC	9.438	259473.02	17.8581	1.000	1	17.86
gamma-BHC	10.334	232666.54	17.7357	1.000	1	17.74
beta-BHC	10.599	100532.66	18.0385	1.000	1	18.04
delta-BHC	11.082	230249.92	17.5394	1.000	1	17.54
Heptachlor	11.637	193833.00	18.0157	1.000	1	18.02
Aldrin	12.438	210957.61	17.4284	1.000	1	17.43
Heptachlor epoxide	14.040	196222.58	17.3947	1.000	1	17.39
gamma-Chlordane	14.362	195759.00	17.1882	1.000	1	17.19
alpha-Chlordane	14.698	188647.00	17.1059	1.000	1	17.11
4,4'-DDE	14.912	377442.27	34.5974	1.000	1	34.60
Endosulfan I	15.045	180547.85	17.3896	1.000	1	17.39
Dieldrin	15.650	390826.26	34.6083	1.000	1	34.61
Endrin	16.230	311730.50	35.6854	1.000	1	35.69
4,4'-DDD	16.415	320214.00	33.9045	1.000	1	33.90
Endosulfan II	16.797	328598.42	33.7020	1.000	1	33.70
4,4'-DDT	17.102	257013.82	33.5750	1.000	1	33.58
Endrin aldehyde	17.847	250117.93	32.6425	1.000	1	32.64
Methoxychlor	18.314	620302.76	183.5434	1.000	1	183.54
Endosulfan sulfate	18.929	290351.82	33.7009	1.000	1	33.70
Endrin ketone	19.604	352192.32	33.5907	1.000	1	33.59
Decachlorobiphenyl	21.582	196586.76	29.5958	1.000	1	29.60
		6016680.04	730.2874			730.29

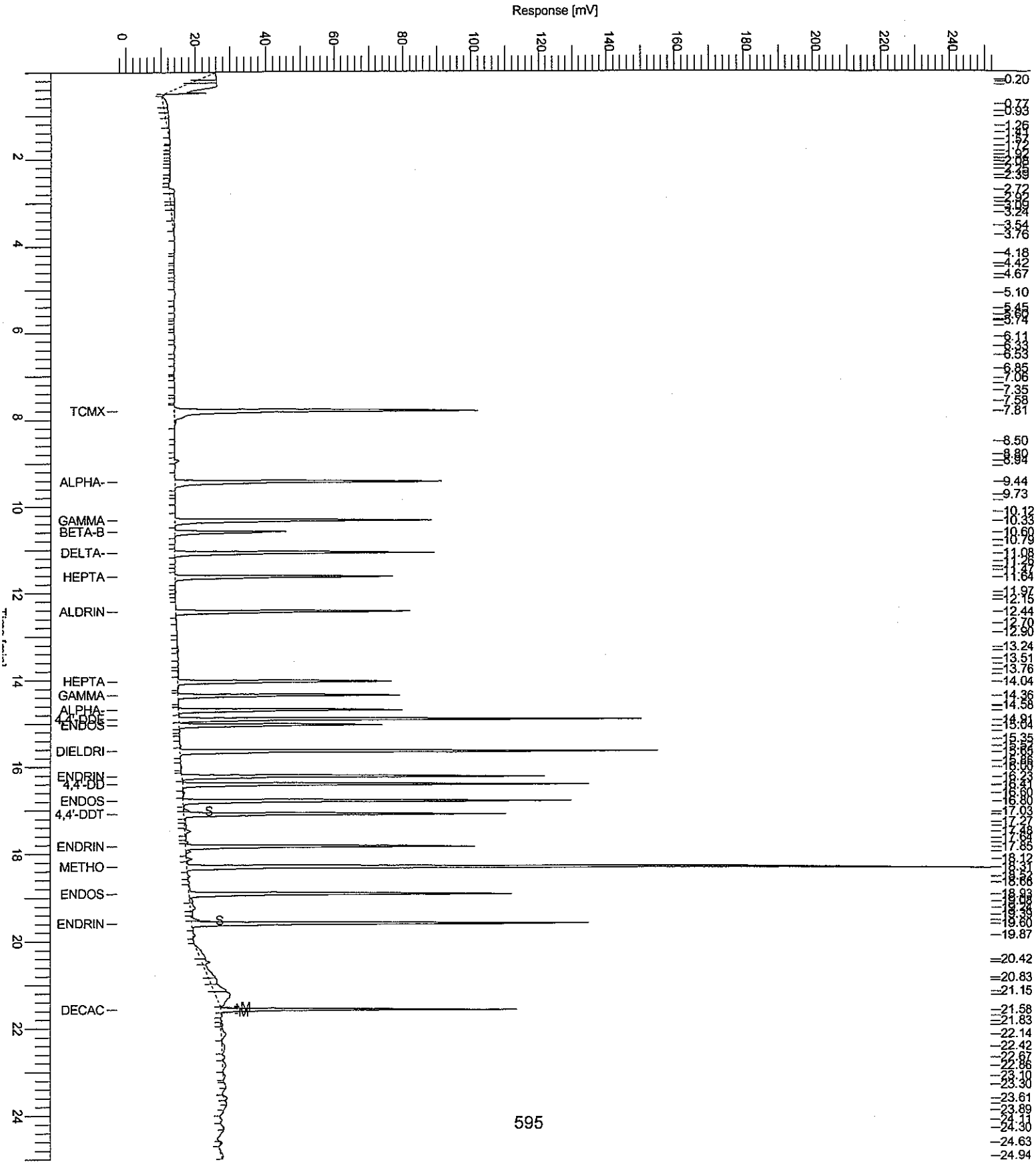
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a036p.TX0

RD
10/12/04

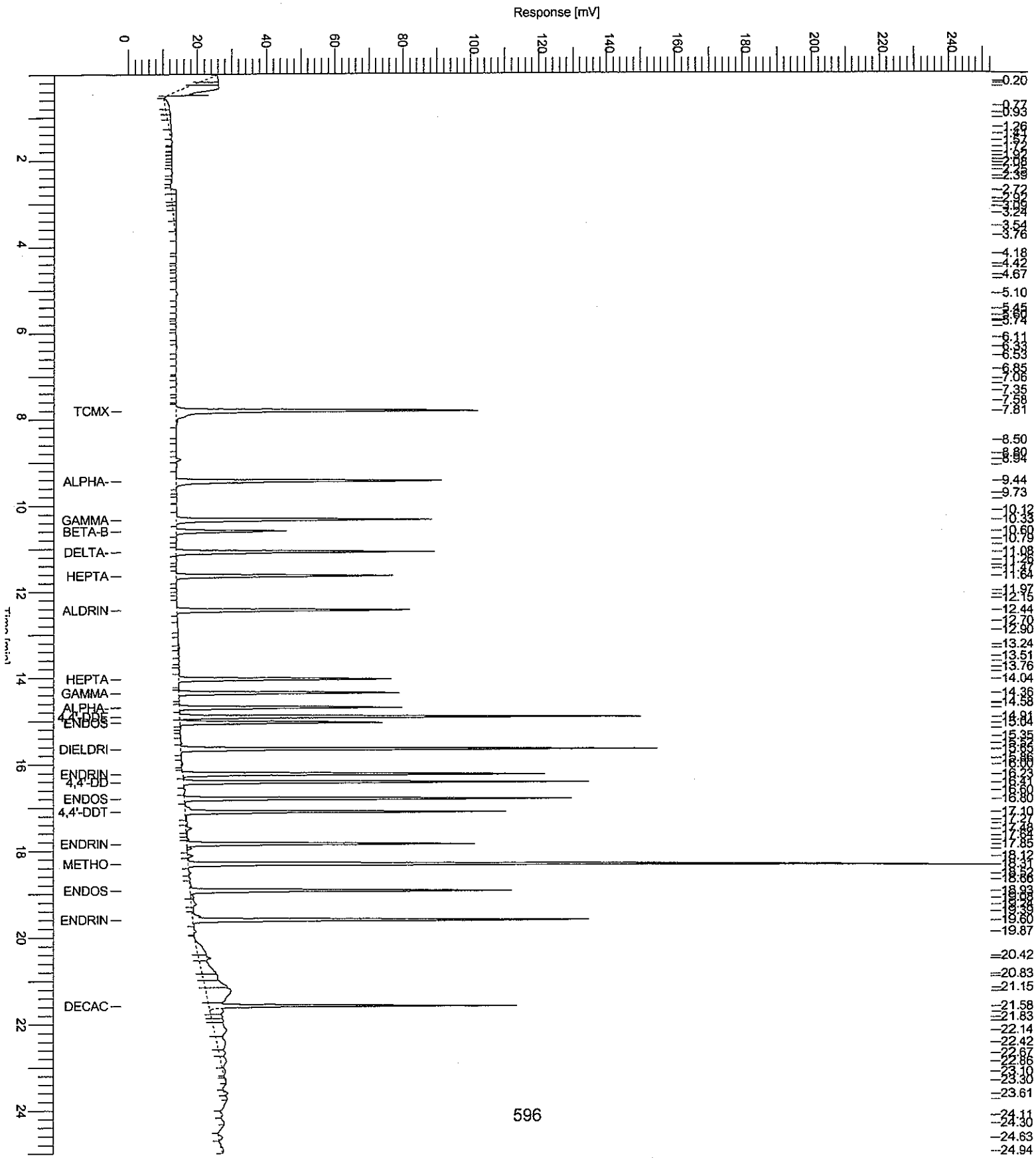
GC23 Rtx-CLPesticides

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHA\284a036.raw
ate : 10/11/04 2:42:18 PM
lethod : Time of Injection: 10/11/04 12:04:10 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.57 mV High Point : 252.69 mV
lot Offset: -2.57 mV Plot Scale: 255.3 mV



GC23 Rtx-CLPesticides

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHA\284a036.raw
ate : 10/11/04 12:46:22 PM
lethod : gc23ins Time of Injection: 10/11/04 12:04:10 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.94 mV High Point : 252.69 mV
cale Factor: 1.0 Plot Offset: -1.94 mV Plot Scale: 254.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 36

Date : 10/11/04 2:43:01 PM
Data Acquisition Time : 10/11/04 12:04:10 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b036p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.728	372747.00	39.8254	1.000	1	39.83
alpha-BHC	9.419	291727.41	20.3871	1.000	1	20.39
gamma-BHC	10.385	263159.93	20.3396	1.000	1	20.34
beta-BHC	10.605	117579.00	20.3051	1.000	1	20.31
delta-BHC	11.387	267195.50	20.6090	1.000	1	20.61
Heptachlor	11.552	182339.00	21.2967	1.000	1	21.30
Aldrin	12.387	248858.44	20.4664	1.000	1	20.47
Heptachlor epoxide	13.866	231238.44	20.7807	1.000	1	20.78
gamma-Chlordane	14.337	237071.76	20.5370	1.000	1	20.54
alpha-Chlordane	14.714	229989.61	20.6672	1.000	1	20.67
Endosulfan I	14.838	217621.70	20.8718	1.000	1	20.87
4,4'-DDE	15.170	460710.50	42.0971	1.000	1	42.10
Dieldrin	15.528	466253.00	41.9955	1.000	1	42.00
Endrin	16.278	365423.22	44.7456	1.000	1	44.75
4,4'-DDD	16.598	402526.07	43.8462	1.000	1	43.85
Endosulfan II	16.797	402291.02	41.7567	1.000	1	41.76
4,4'-DDT	17.366	259667.00	39.1845	1.000	1	39.18
Endrin aldehyde	17.634	309304.87	40.3890	1.000	1	40.39
Endosulfan sulfate	18.313	357073.08	40.9878	1.000	1	40.99
Methoxychlor	19.081	654432.88	213.8023	1.000	1	213.80
Endrin ketone	19.613	428146.55	41.4193	1.000	1	41.42
Decachlorobiphenyl	22.021	235761.18	38.6323	1.000	1	38.63
		7001117.17	874.9424			874.94

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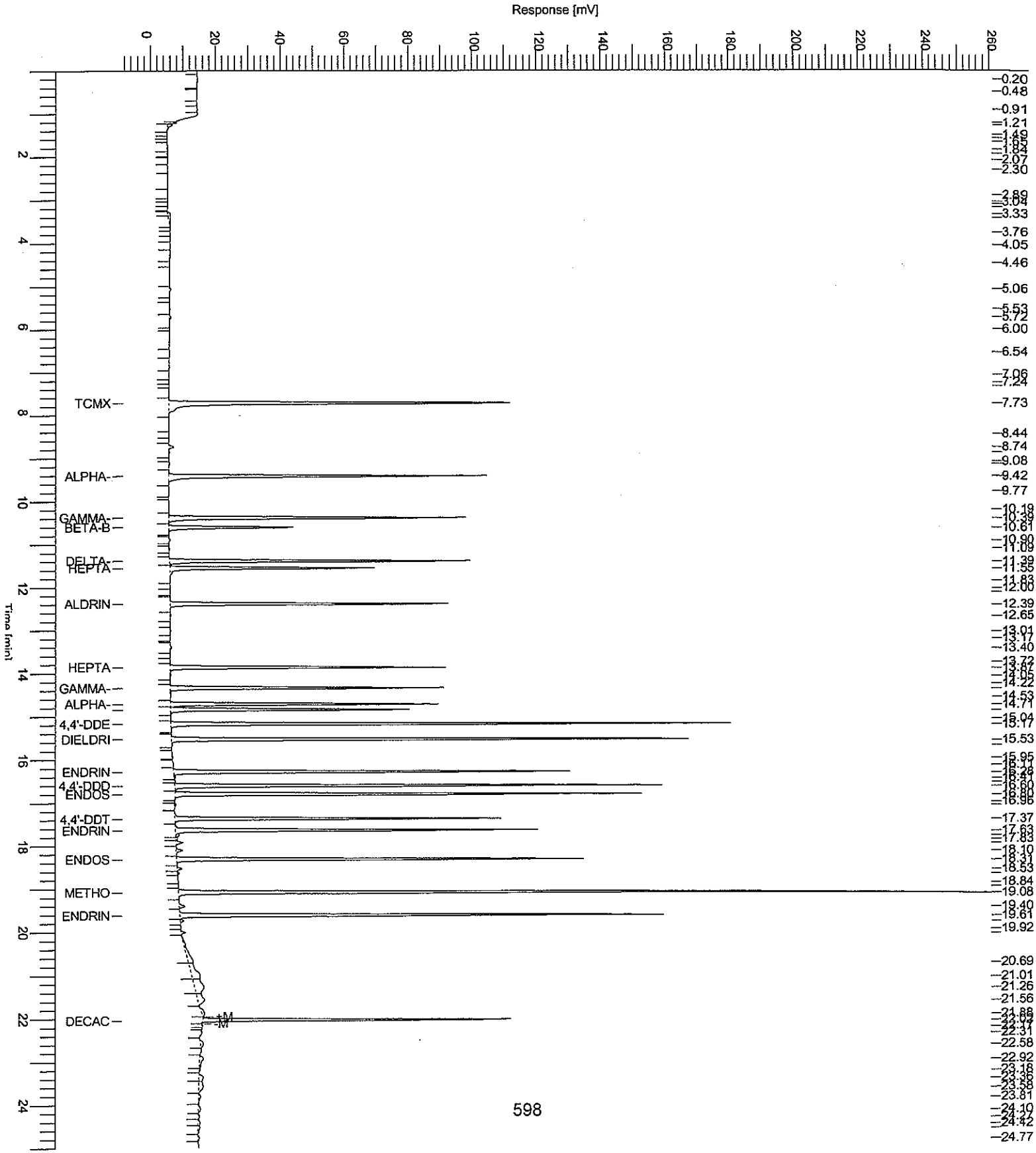
Report stored in ASCII file: G:\gc23\CHB\284b036p.TX0

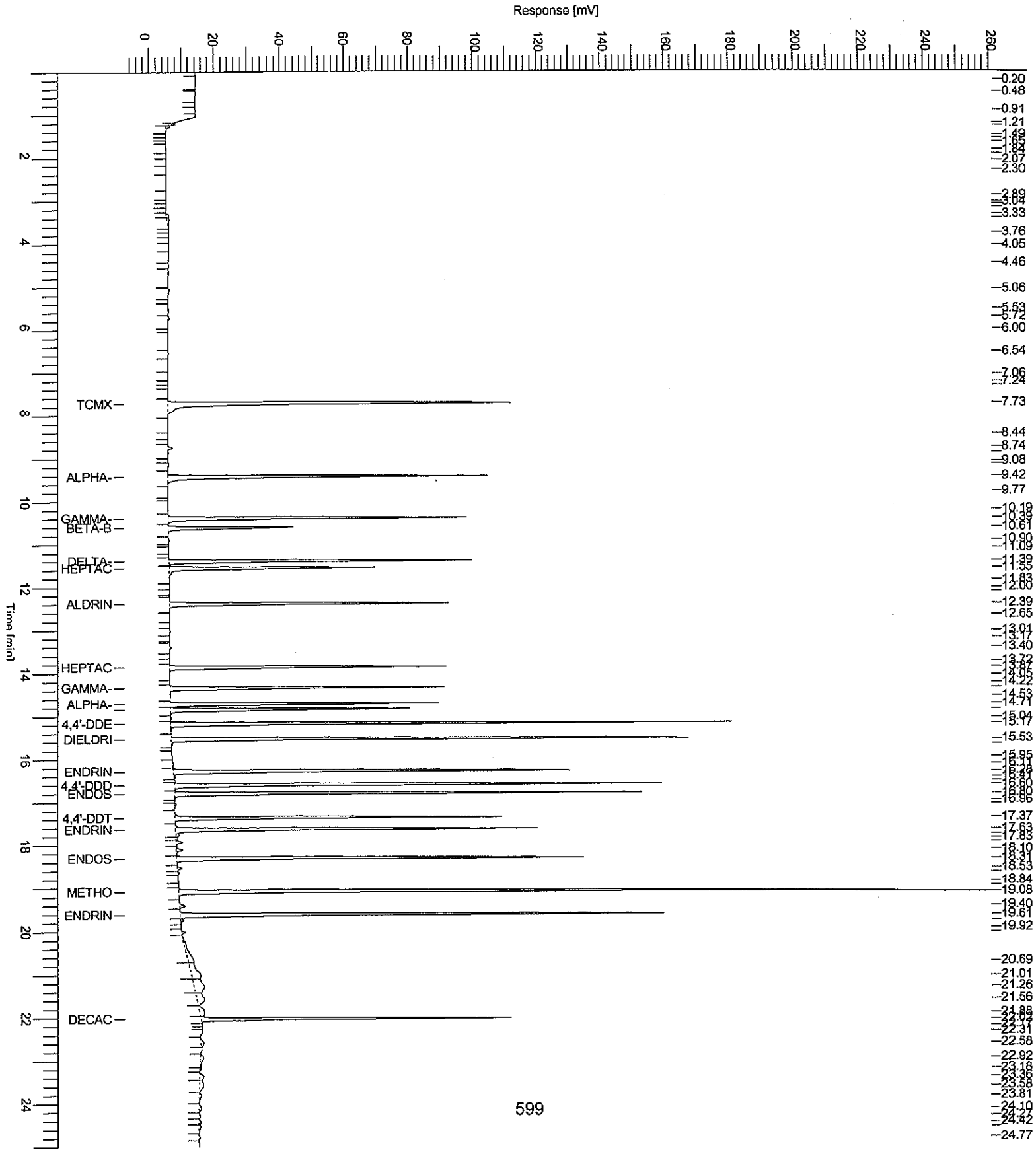
GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHB\284b036.raw
ate : 10/11/04 2:43:05 PM
lethod : Time of Injection: 10/11/04 12:04:10 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.42 mV High Point : 261.05 mV
lot Offset: -8.42 mV Plot Scale: 269.5 mV



GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHB\284b036.raw
ate : 10/11/04 12:46:29 PM
lethod : gc23ins Time of Injection: 10/11/04 12:04:10 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -7.75 mV High Point : 261.05 mV
cale Factor: 1.0 Plot Offset: -7.75 mV Plot Scale: 268.8 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063049 Run Name: Injected: 11-OCT-2004 21:12
Filename: 284_049 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	371923.13
Endrin aldehyde	A	20181.43
Endrin ketone	A	30336.15

Endrin Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	610892.67
4,4'-DDE	A	4131.19
4,4'-DDD	A	77299.56

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	401118.62
Endrin aldehyde	B	21436.38
Endrin ketone	B	54658.25

Endrin Breakdown %: **16 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	514536.54
4,4'-DDE	B	7413.62
4,4'-DDD	B	123662.4

4,4'-DDT Breakdown %: **20 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 49

Date : 10/12/04 10:20:51 AM
Data Acquisition Time : 10/11/04 9:12:34 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a049.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.802	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.432	132575.11	9.1244	1.000	1	9.12
gamma-BHC	10.323	121519.00	9.2631	1.000	1	9.26
beta-BHC	10.587	53788.00	9.6511	1.000	1	9.65
delta-BHC	11.089	490.50	0.0374	1.000	1	0.04
Heptachlor	11.620	907.63	0.0844	1.000	1	0.08
Aldrin	12.465	365.00	0.0302	1.000	1	0.03
Heptachlor epoxide	14.038	622.00	0.0551	1.000	1	0.06
gamma-Chlordane	14.338	775.89	0.0681	1.000	1	0.07
alpha-Chlordane	14.683	0.00	0.0000	1.000	1	0.00
4,4'-DDE	14.900	4131.19	0.3787	1.000	1	0.38
Endosulfan I	15.025	2102.47	0.2025	1.000	1	0.20
Dieldrin	15.635	0.00	0.0000	1.000	1	0.00
Endrin	16.218	371923.13	42.5760	1.000	1	42.58
4,4'-DDD	16.403	77299.56	8.1845	1.000	1	8.18
Endosulfan II	16.782	0.00	0.0000	1.000	1	0.00
4,4'-DDT	17.095	610892.67	79.8040	1.000	1	79.80
Endrin aldehyde	17.835	20181.43	2.6339	1.000	1	2.63
Methoxychlor	18.301	710734.71	210.3016	1.000	1	210.30
Endosulfan sulfate	18.923	572.52	0.0665	1.000	1	0.07
Endrin ketone	19.597	30336.15	2.8933	1.000	1	2.89
Decachlorobiphenyl	21.587	1627.78	0.2451	1.000	1	0.25
		2140844.73	375.5998			375.60

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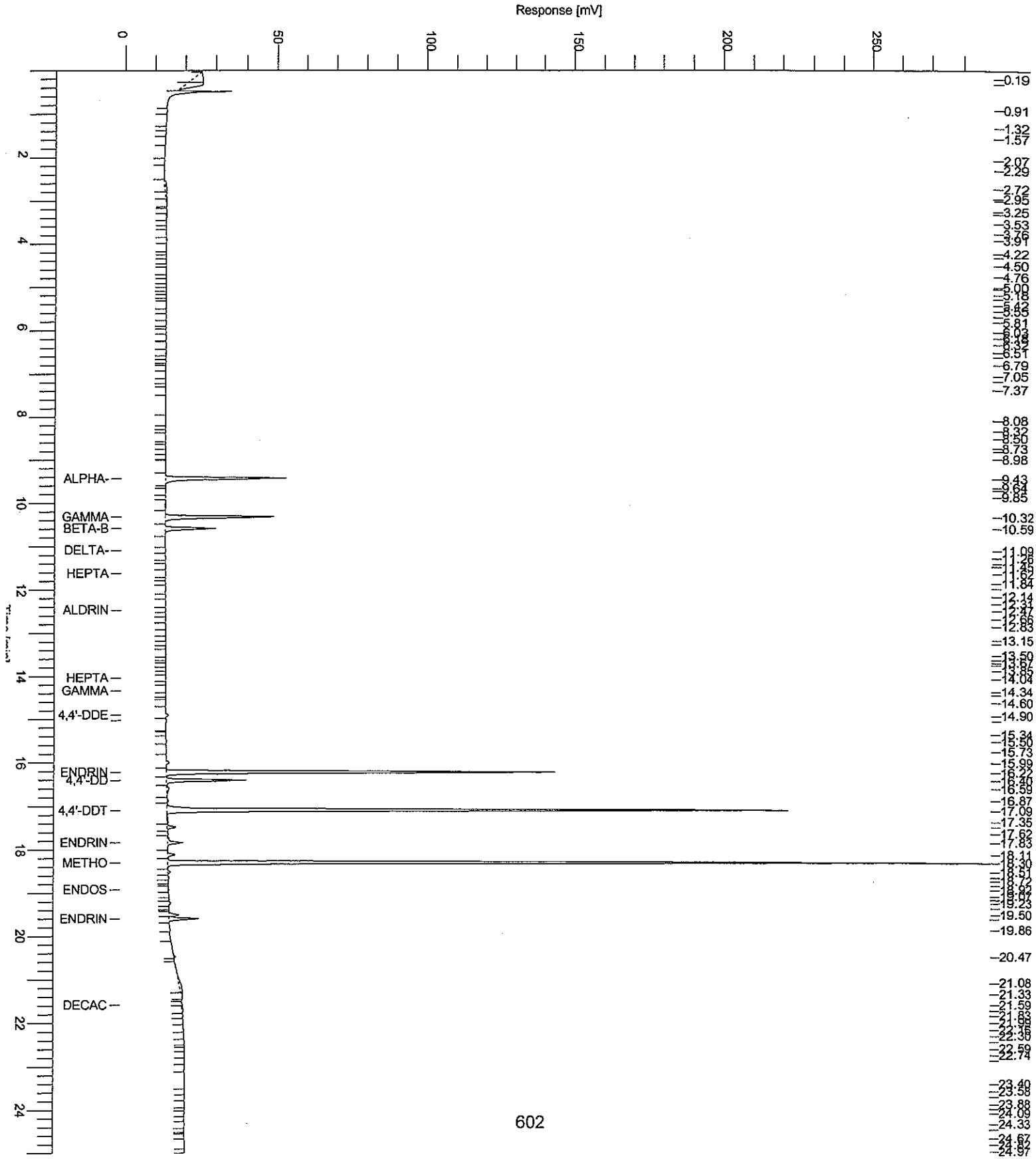
Report stored in ASCII file: G:\gc23\CHA\284a049.TX0

RM
10/12/04

GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
leName : G:\gc23\CHa\284a049.raw
ate : 10/12/04 10:20:54 AM
ethod : gc23ins Time of Injection: 10/11/04 9:12:34 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.18 mV High Point : 289.99 mV
cale Factor: 1.0 Plot Offset: -1.18 mV Plot Scale: 291.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 49

Date : 10/12/04 10:20:34 AM
Data Acquisition Time : 10/11/04 9:12:34 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b049.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.722	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.414	139756.00	9.7667	1.000	1	9.77
gamma-BHC	10.379	128504.00	9.9321	1.000	1	9.93
beta-BHC	10.599	57950.50	10.0076	1.000	1	10.01
delta-BHC	11.390	264.08	0.0204	1.000	1	0.02
Heptachlor	11.557	99.36	0.0116	1.000	1	0.01
Aldrin	12.388	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.836	2426.66	0.2181	1.000	1	0.22
gamma-Chlordane	14.303	1967.62	0.1705	1.000	1	0.17
alpha-Chlordane	14.711	1938.18	0.1742	1.000	1	0.17
Endosulfan I	14.833	2378.11	0.2281	1.000	1	0.23
4,4'-DDE	15.165	7413.62	0.6774	1.000	1	0.68
Dieldrin	15.518	3662.15	0.3299	1.000	1	0.33
Endrin	16.266	401118.62	49.1164	1.000	1	49.12
4,4'-DDD	16.587	123662.40	13.4702	1.000	1	13.47
Endosulfan II	16.795	10957.00	1.1373	1.000	1	1.14
4,4'-DDT	17.354	514536.54	77.6451	1.000	1	77.65
Endrin aldehyde	17.629	21436.38	2.7992	1.000	1	2.80
Endosulfan sulfate	18.297	6300.59	0.7232	1.000	1	0.72
Methoxychlor	19.068	619258.74	202.3110	1.000	1	202.31
Endrin ketone	19.599	54658.25	5.2877	1.000	1	5.29
Decachlorobiphenyl	22.036	903.86	0.1481	1.000	1	0.15
		2099192.64	384.1748			384.17

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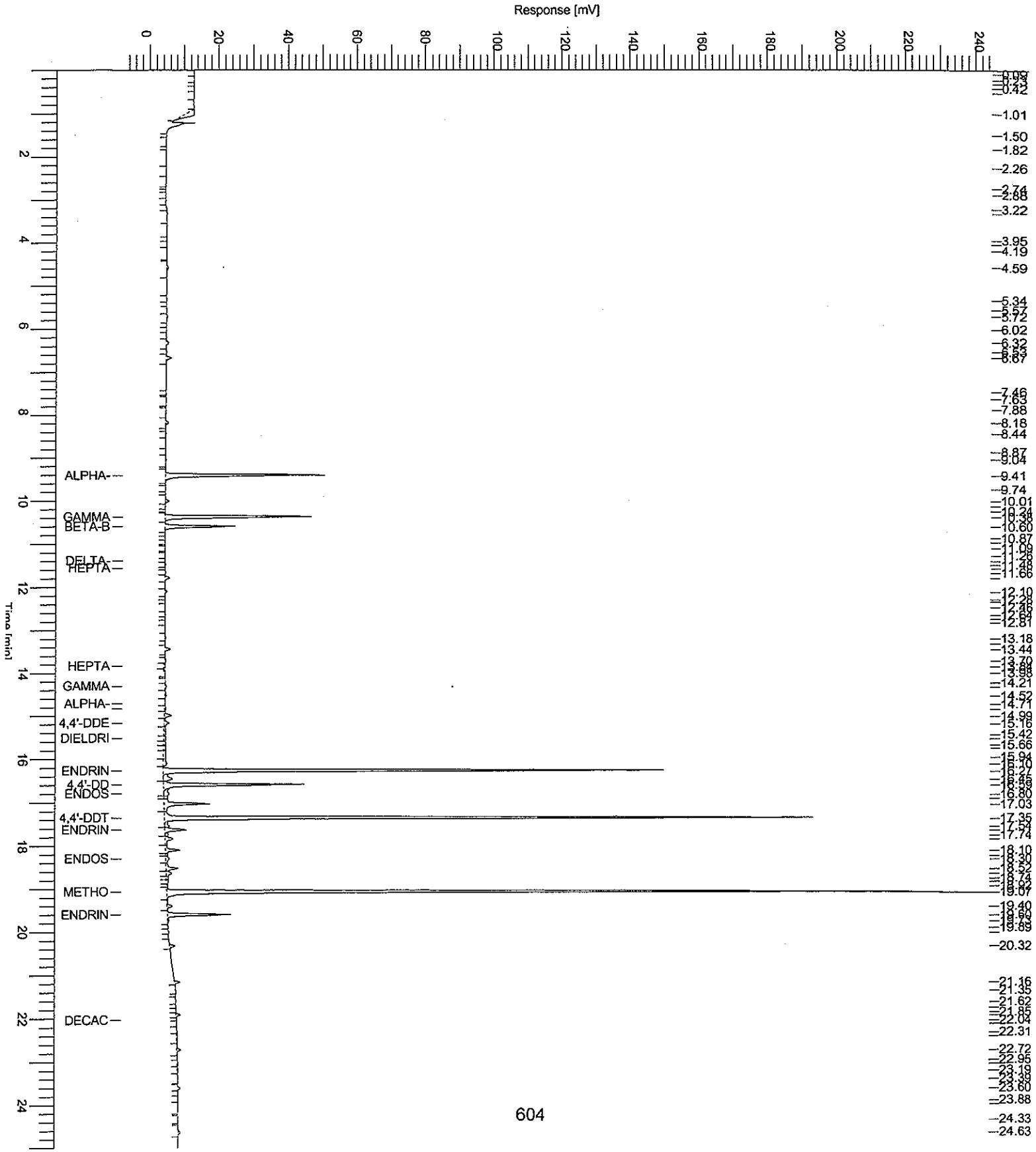
Report stored in ASCII file: G:\gc23\CHB\284b049.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
ileName : G:\gc23\CHb\284b049
ate : 10/12/04 10:20:36 AM
lethod : gc23ins Time of Injection: 10/11/04 9:12:34 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -7.61 mV High Point : 244.72 mV
cale Factor: 1.0 Plot Offset: -7.61 mV Plot Scale: 252.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804410063052
Calnum : 804386835001
Standards: 04WS1633

Run Name : ccv
Filename : 284_052
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 11-OCT-2004 22:42
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13744	25.00000	23.64830	pg	-5	15	
gamma-BHC	A	13119	12340	25.00000	23.51687	pg	-6	15	
beta-BHC	A	5573.2	5267.8	25.00000	23.62981	pg	-5	15	
delta-BHC	A	13128	12295	25.00000	23.41467	pg	-6	15	
Heptachlor	A	10759	10663	25.00000	24.77759	pg	-1	15	
Aldrin	A	12104	11295	25.00000	23.32878	pg	-7	15	
Heptachlor epoxide	A	11281	10457	25.00000	23.17416	pg	-7	15	
gamma-Chlordane	A	11389	10577	25.00000	23.21792	pg	-7	15	
alpha-Chlordane	A	11028	10139	25.00000	22.98393	pg	-8	15	
4,4'-DDE	A	10910	10425	50.00000	47.77859	pg	-4	15	
Endosulfan I	A	10383	9609.4	25.00000	23.13835	pg	-7	15	
Dieldrin	A	11293	10770	50.00000	47.68576	pg	-5	15	
Endrin	A	8735.5	8627.0	50.00000	49.37894	pg	-1	15	
4,4'-DDD	A	9444.6	9011.9	50.00000	47.70961	pg	-5	15	
Endosulfan II	A	9750.1	9124.9	50.00000	46.79390	pg	-6	15	
4,4'-DDT	A	7654.9	7265.4	50.00000	47.45571	pg	-5	15	
Endrin aldehyde	A	7662.3	6999.4	50.00000	45.67421	pg	-9	15	
Methoxychlor	A	3379.6	3490.8	250.0000	258.2264	pg	3	15	
Endosulfan sulfate	A	8615.6	7948.3	50.00000	46.12759	pg	-8	15	
Endrin ketone	A	10485	9730.7	50.00000	46.40362	pg	-7	15	
TCMX	A	9377.7	8767.3	50.00000	46.74529	pg	-7	15	
Decachlorobiphenyl	A	6642.4	5903.2	50.00000	44.43605	pg	-11	15	
alpha-BHC	B	14309	13714	25.00000	23.95945	pg	-4	15	
gamma-BHC	B	12938	12320	25.00000	23.80497	pg	-5	15	
beta-BHC	B	5790.6	5405.7	25.00000	23.33811	pg	-7	15	
delta-BHC	B	12965	12433	25.00000	23.97337	pg	-4	15	
Heptachlor	B	8561.9	8057.9	25.00000	23.52860	pg	-6	15	
Aldrin	B	12159	11717	25.00000	24.09151	pg	-4	15	
Heptachlor epoxide	B	11128	10627	25.00000	23.87645	pg	-4	15	
gamma-Chlordane	B	11544	11088	25.00000	24.01426	pg	-4	15	
alpha-Chlordane	B	11128	10702	25.00000	24.04169	pg	-4	15	
4,4'-DDE	B	10944	10824	50.00000	49.45153	pg	-1	15	
Endosulfan I	B	10427	10134	25.00000	24.29744	pg	-3	15	
Dieldrin	B	11102	10955	50.00000	49.33499	pg	-1	15	
Endrin	B	8166.7	8160.8	50.00000	49.96369	pg	0	15	
4,4'-DDD	B	9180.4	9775.4	50.00000	53.24044	pg	6	15	
Endosulfan II	B	9634.2	9575.1	50.00000	49.69333	pg	-1	15	
4,4'-DDT	B	6626.8	5259.7	50.00000	39.68506	pg	**-21**	15	c- ***
Endrin aldehyde	B	7658.2	7348.9	50.00000	47.98108	pg	-4	15	
Methoxychlor	B	3060.9	2723.2	250.0000	222.4150	pg	-11	15	
Endosulfan sulfate	B	8711.7	8375.4	50.00000	48.07010	pg	-4	15	
Endrin ketone	B	10337	9932.4	50.00000	48.04324	pg	-4	15	
TCMX	B	9359.5	8829.0	50.00000	47.16593	pg	-6	15	
Decachlorobiphenyl	B	6102.7	5421.2	50.00000	44.41661	pg	-11	15	
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1633,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 52

Date : 10/12/04 10:26:59 AM
Data Acquisition Time : 10/11/04 10:42:43 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a052p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.801	438364.58	46.7453	1.000	1	46.75
alpha-BHC	9.429	343602.99	23.6483	1.000	1	23.65
gamma-BHC	10.320	308507.89	23.5169	1.000	1	23.52
beta-BHC	10.585	131694.19	23.6298	1.000	1	23.63
delta-BHC	11.068	307378.81	23.4147	1.000	1	23.41
Heptachlor	11.627	266585.67	24.7776	1.000	1	24.78
Aldrin	12.429	282377.21	23.3288	1.000	1	23.33
Heptachlor epoxide	14.030	261418.60	23.1742	1.000	1	23.17
gamma-Chlordane	14.348	264432.00	23.2179	1.000	1	23.22
alpha-Chlordane	14.684	253470.50	22.9839	1.000	1	22.98
4,4'-DDE	14.899	521242.50	47.7786	1.000	1	47.78
Endosulfan I	15.031	240234.00	23.1383	1.000	1	23.14
Dieldrin	15.636	538507.40	47.6858	1.000	1	47.69
Endrin	16.216	431350.50	49.3789	1.000	1	49.38
4,4'-DDD	16.401	450597.00	47.7096	1.000	1	47.71
Endosulfan II	16.784	456245.50	46.7939	1.000	1	46.79
4,4'-DDT	17.088	363269.36	47.4557	1.000	1	47.46
Endrin aldehyde	17.833	349970.92	45.6742	1.000	1	45.67
Methoxychlor	18.300	872701.29	258.2264	1.000	1	258.23
Endosulfan sulfate	18.915	397414.95	46.1276	1.000	1	46.13
Endrin ketone	19.595	486533.54	46.4036	1.000	1	46.40
Decachlorobiphenyl	21.571	295161.73	44.4361	1.000	1	44.44
		8261061.14	1009.2460			1009.25

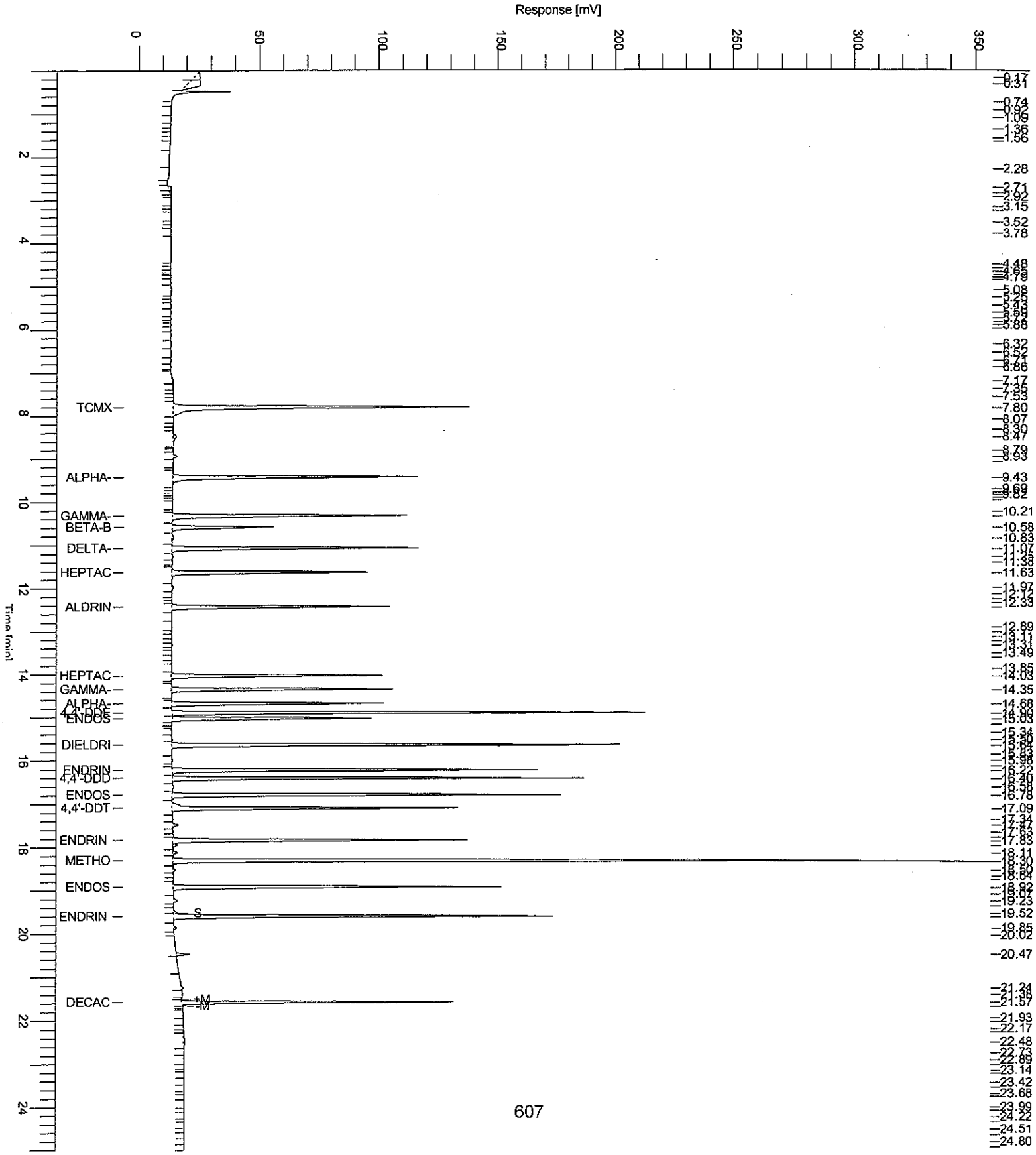
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a052p.TX0

RW
10/12/04

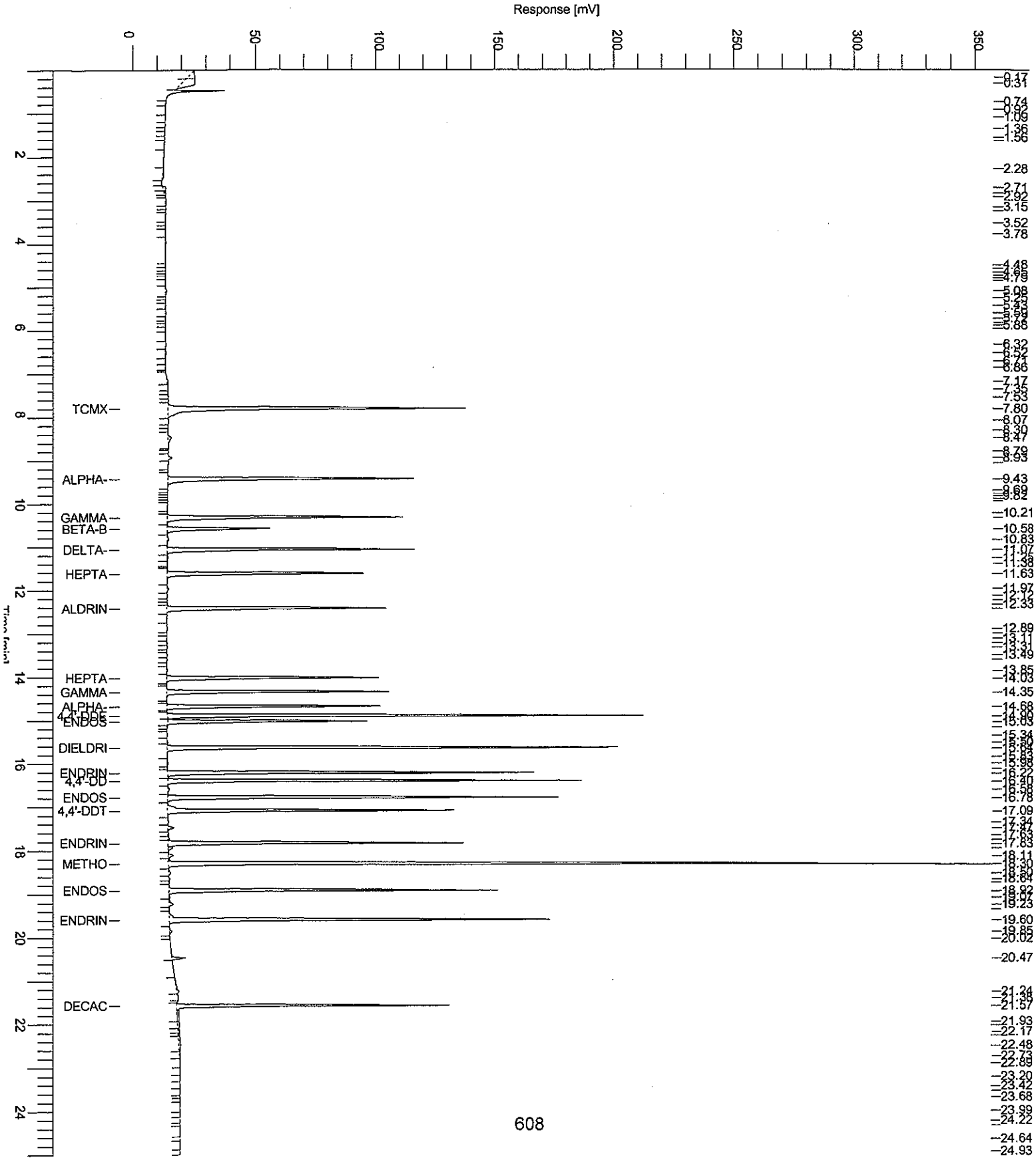
GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1633,pest_5 Sample #: 25/50 ug/L
ileName : G:\gc23\CHa\284a052.raw
ate : 10/12/04 10:27:04 AM
lethod : Time of Injection: 10/11/04 10:42:43 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -6.42 mV High Point : 357.63 mV
lot Offset: -6.42 mV Plot Scale: 364.0 mV



GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1633,pest_5 Sample #: 25/50 ug/L Page 1 of 1
leName : G:\gc23\CHa\284a052.raw
ate : 10/12/04 10:21:04 AM
ethod : gc23ins Time of Injection: 10/11/04 10:42:43 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -5.51 mV High Point : 357.63 mV
cale Factor: 1.0 Plot Offset: -5.51 mV Plot Scale: 363.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1633,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 52

Date : 10/12/04 10:28:19 AM
Data Acquisition Time : 10/11/04 10:42:43 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b052p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

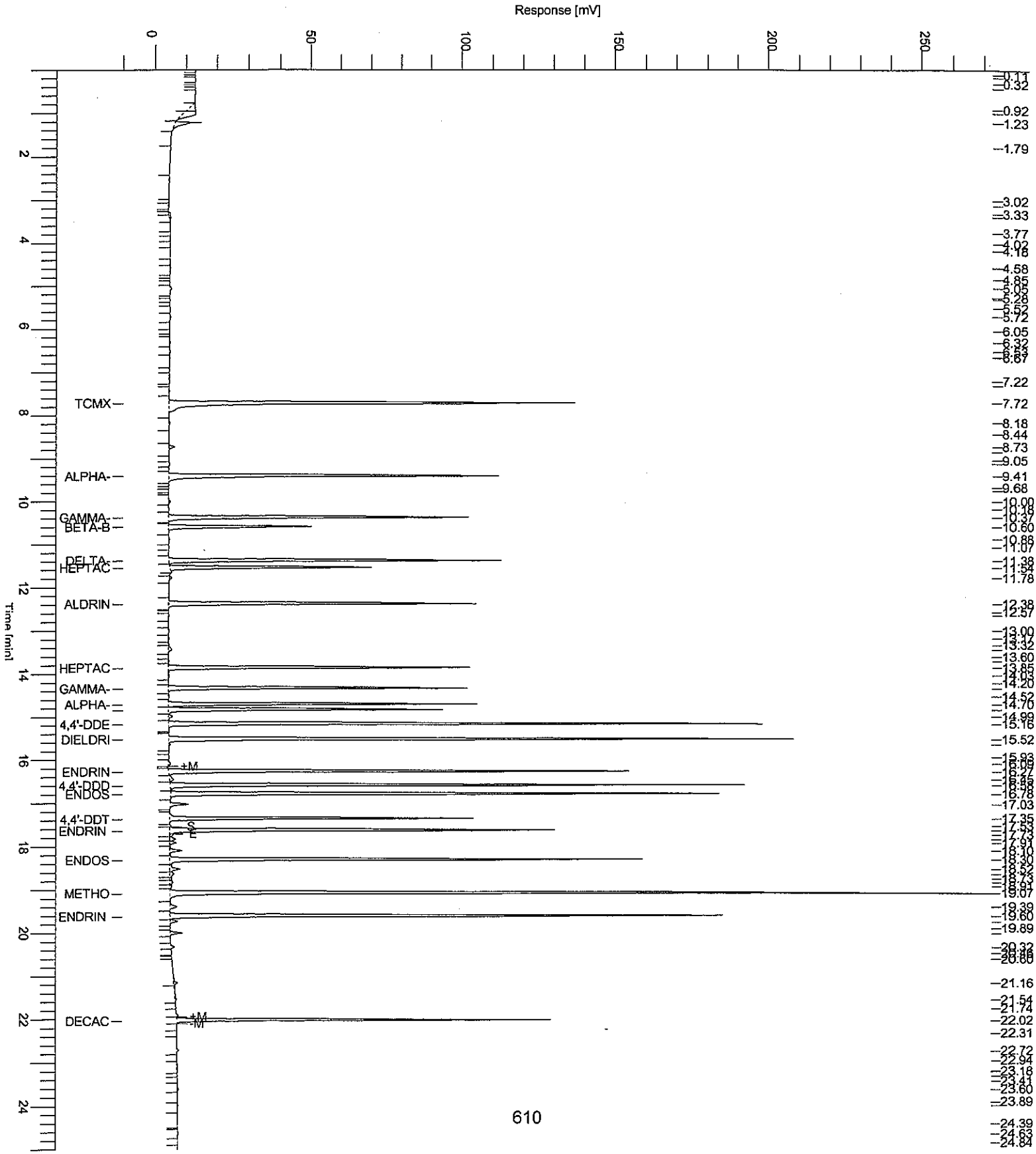
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.717	441450.38	47.1659	1.000	1	47.17
alpha-BHC	9.412	342845.00	23.9594	1.000	1	23.96
gamma-BHC	10.373	307995.21	23.8050	1.000	1	23.80
beta-BHC	10.598	135142.13	23.3381	1.000	1	23.34
delta-BHC	11.380	310815.00	23.9734	1.000	1	23.97
Heptachlor	11.544	201448.50	23.5286	1.000	1	23.53
Aldrin	12.379	292937.00	24.0915	1.000	1	24.09
Heptachlor epoxide	13.852	265686.57	23.8764	1.000	1	23.88
gamma-Chlordane	14.329	277212.07	24.0143	1.000	1	24.01
alpha-Chlordane	14.700	267541.94	24.0417	1.000	1	24.04
Endosulfan I	14.830	253340.00	24.2974	1.000	1	24.30
4,4'-DDE	15.162	541197.50	49.4515	1.000	1	49.45
Dieldrin	15.515	547739.00	49.3350	1.000	1	49.33
Endrin	16.265	408037.89	49.9637	1.000	1	49.96
4,4'-DDD	16.585	488769.00	53.2404	1.000	1	53.24
Endosulfan II	16.784	478753.54	49.6933	1.000	1	49.69
4,4'-DDT	17.353	262983.81	39.6851	1.000	1	39.69
Endrin aldehyde	17.621	367446.52	47.9811	1.000	1	47.98
Endosulfan sulfate	18.300	418771.54	48.0701	1.000	1	48.07
Methoxychlor	19.067	680795.72	222.4150	1.000	1	222.42
Endrin ketone	19.601	496617.75	48.0432	1.000	1	48.04
Decachlorobiphenyl	22.017	271060.71	44.4166	1.000	1	44.42
		8058586.78	988.3869			988.39

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\284b052p.TX0

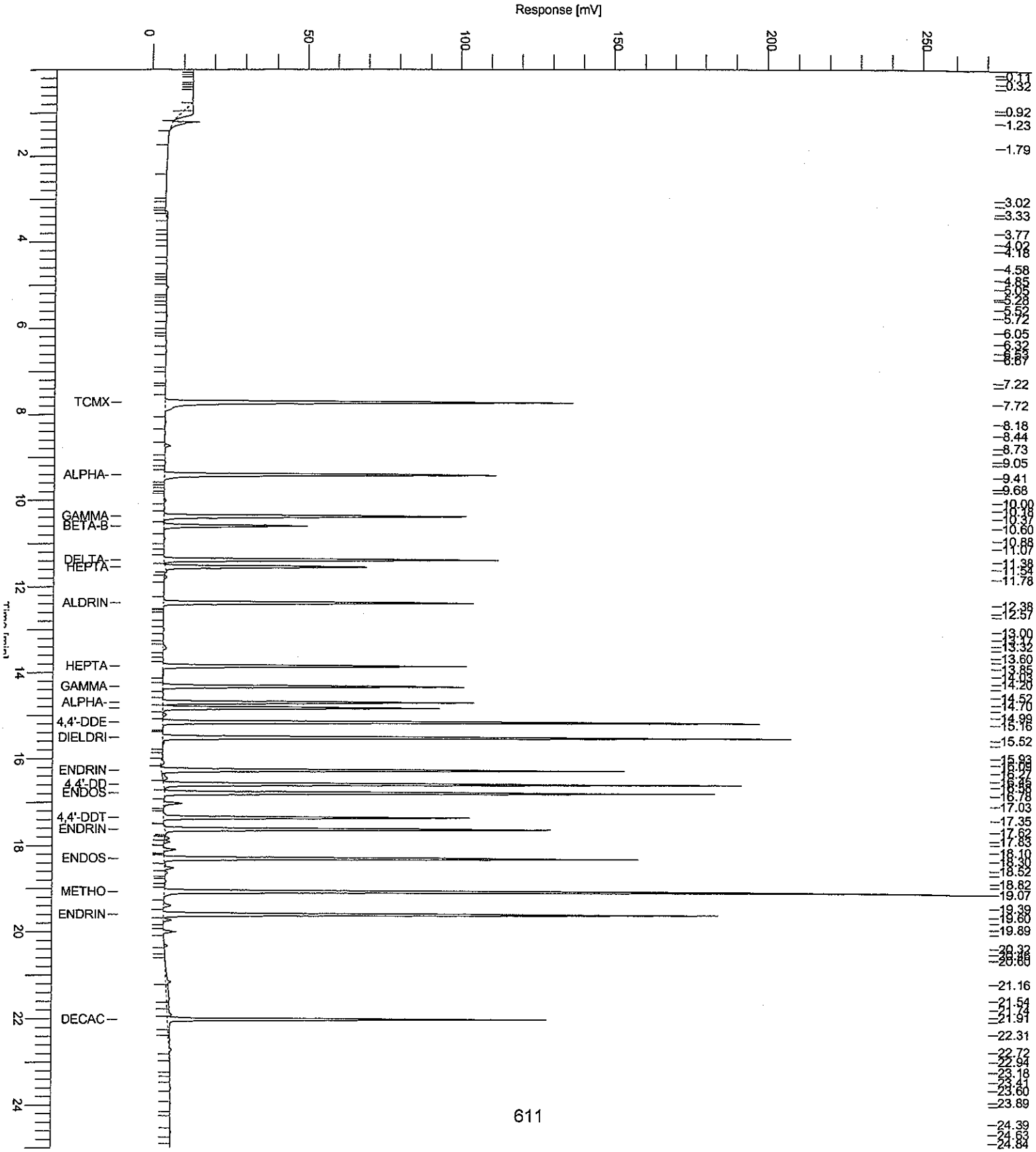
GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1633,pest_5 Sample #: 25/50 ug/L Page 1 of 1
ileName : G:\gc23\CHb\284b052.raw
ate : 10/12/04 10:28:23 AM
lethod : Time of Injection: 10/11/04 10:42:43 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -10.10 mV High Point : 272.46 mV
lot Offset: -10.10 mV Plot Scale: 282.6 mV



GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1633,pest_5 Sample #: 25/50 ug/L Page 1 of 1
leName : G:\gc23\CHb\284b052
ate : 10/12/04 10:20:47 AM
ethod : gc23ins Time of Injection: 10/11/04 10:42:43 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -9.39 mV High Point : 272.46 mV
cale Factor: 1.0 Plot Offset: -9.39 mV Plot Scale: 281.9 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804410063065 Run Name: Injected: 12-OCT-2004 05:13
Filename: 284_065 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	475698.21
Endrin aldehyde	A	11271.64
Endrin ketone	A	26461.23

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	861286.05
4,4'-DDE	A	4644.31
4,4'-DDD	A	61809.19

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	404445.82
Endrin aldehyde	B	14225.37
Endrin ketone	B	50639.74

Endrin Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	498430.39
4,4'-DDE	B	4036.82
4,4'-DDD	B	121447.16

4,4'-DDT Breakdown %: **20 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 65

Date : 10/12/04 11:37:14 AM
Data Acquisition Time : 10/12/04 5:13:53 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a065.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.802	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.420	148480.09	10.2191	1.000	1	10.22
gamma-BHC	10.316	138884.00	10.5868	1.000	1	10.59
beta-BHC	10.581	62409.95	11.1982	1.000	1	11.20
delta-BHC	11.084	1103.46	0.0841	1.000	1	0.08
Heptachlor	11.601	909.46	0.0845	1.000	1	0.08
Aldrin	12.452	307.50	0.0254	1.000	1	0.03
Heptachlor epoxide	14.028	995.95	0.0883	1.000	1	0.09
gamma-Chlordane	14.330	2064.12	0.1812	1.000	1	0.18
alpha-Chlordane	14.683	0.00	0.0000	1.000	1	0.00
4,4'-DDE	14.888	4644.31	0.4257	1.000	1	0.43
Endosulfan I	15.014	1423.69	0.1371	1.000	1	0.14
Dieldrin	15.615	419.67	0.0372	1.000	1	0.04
Endrin	16.212	475698.21	54.4556	1.000	1	54.46
4,4'-DDD	16.398	61809.19	6.5444	1.000	1	6.54
Endosulfan II	16.782	0.00	0.0000	1.000	1	0.00
4,4'-DDT	17.084	861286.05	112.5141	1.000	1	112.51
Endrin aldehyde	17.827	11271.64	1.4710	1.000	1	1.47
Methoxychlor	18.296	975670.48	288.6943	1.000	1	288.69
Endosulfan sulfate	18.915	865.93	0.1005	1.000	1	0.10
Endrin ketone	19.586	26461.23	2.5238	1.000	1	2.52
Decachlorobiphenyl	21.588	7745.07	1.1660	1.000	1	1.17
		2782449.99	500.5374			500.54

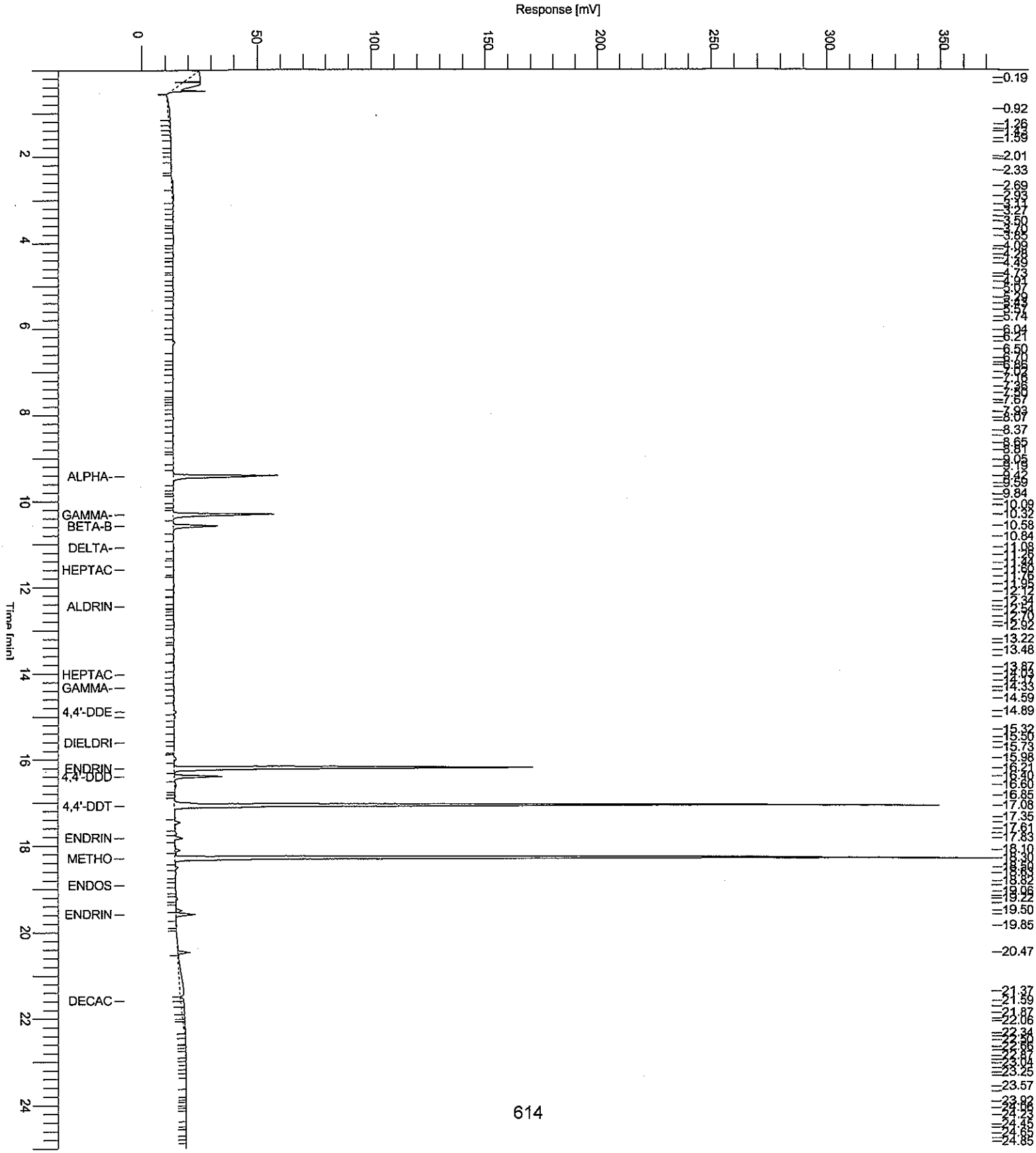
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a065.TX0

BN
10/12/04

GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
leName : G:\gc23\CHa\284a065.raw
ate : 10/12/04 11:37:16 AM
ethod : gc23ins Time of Injection: 10/12/04 5:13:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -7.66 mV High Point : 372.81 mV
cale Factor: 1.0 Plot Offset: -7.66 mV Plot Scale: 380.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 65

Date : 10/12/04 11:37:29 AM
Data Acquisition Time : 10/12/04 5:13:53 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b065.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.733	56.00	0.0060	1.000	1	0.01
alpha-BHC	9.403	136967.62	9.5719	1.000	1	9.57
gamma-BHC	10.368	126973.00	9.8137	1.000	1	9.81
beta-BHC	10.589	57645.82	9.9550	1.000	1	9.96
delta-BHC	11.369	171.91	0.0133	1.000	1	0.01
Heptachlor	11.553	0.00	0.0000	1.000	1	0.00
Aldrin	12.388	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.868	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	14.300	4639.49	0.4019	1.000	1	0.40
alpha-Chlordane	14.717	0.00	0.0000	1.000	1	0.00
Endosulfan I	14.822	2551.94	0.2448	1.000	1	0.24
4,4'-DDE	15.154	4036.82	0.3689	1.000	1	0.37
Dieldrin	15.515	217.52	0.0196	1.000	1	0.02
Endrin	16.255	404445.82	49.5238	1.000	1	49.52
4,4'-DDD	16.582	121447.16	13.2289	1.000	1	13.23
Endosulfan II	16.784	11865.00	1.2316	1.000	1	1.23
4,4'-DDT	17.349	498430.39	75.2147	1.000	1	75.21
Endrin aldehyde	17.618	14225.37	1.8575	1.000	1	1.86
Endosulfan sulfate	18.296	3228.74	0.3706	1.000	1	0.37
Methoxychlor	19.063	605322.50	197.7580	1.000	1	197.76
Endrin ketone	19.588	50639.74	4.8989	1.000	1	4.90
Decachlorobiphenyl	22.014	2138.55	0.3504	1.000	1	0.35
		2045003.39	374.8296			374.83

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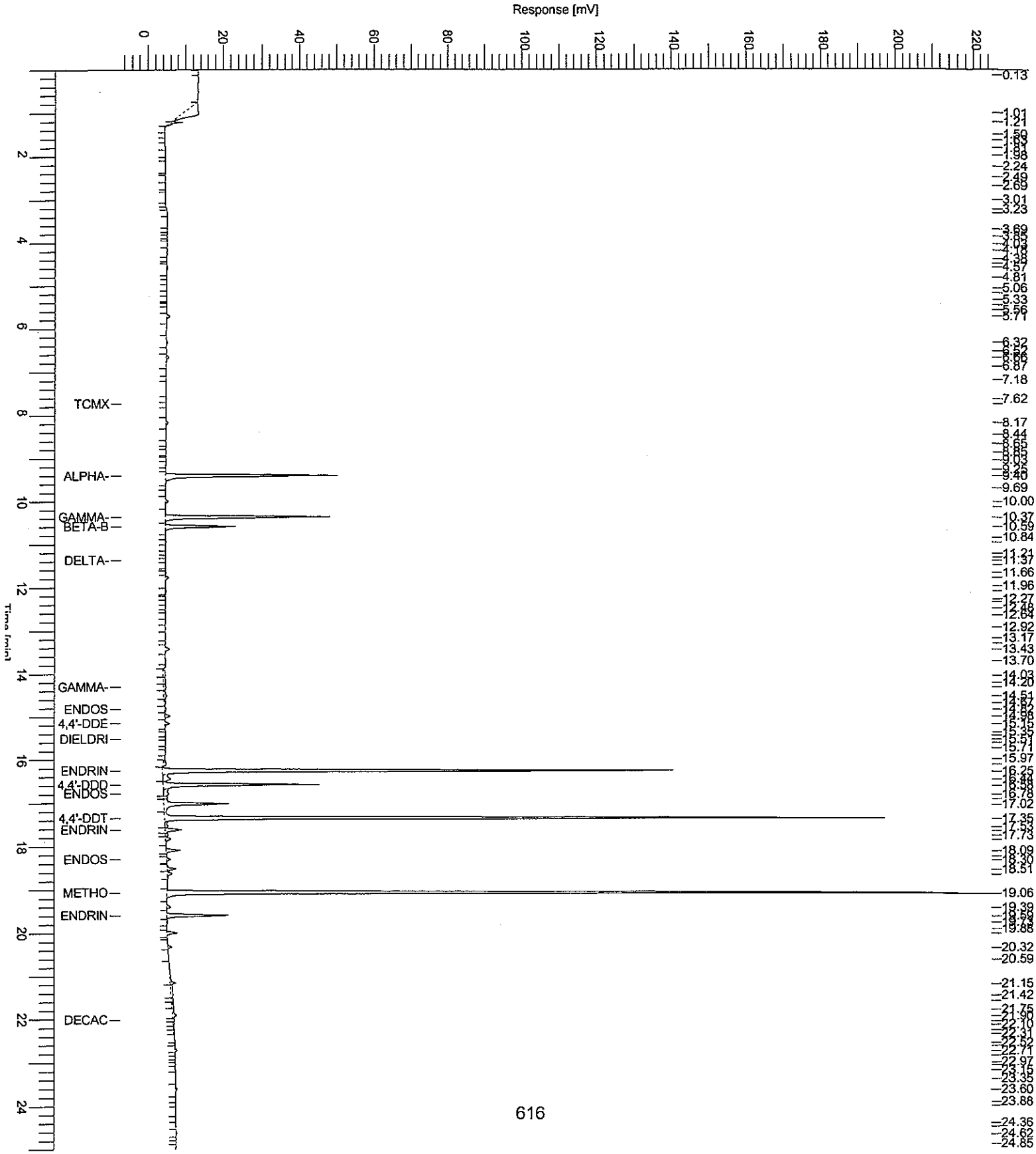
Report stored in ASCII file: G:\gc23\CHB\284b065.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: 10-250ug/L Page 1 of 1
leName : G:\gc23\CHb\284b065
ate : 10/12/04 11:37:31 AM
ethod : gc23ins Time of Injection: 10/12/04 5:13:53 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -6.78 mV High Point : 225.14 mV
cale Factor: 1.0 Plot Offset: -6.78 mV Plot Scale: 231.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804410063066
Calnum : 804386835001
Standards: 04WS1632

Run Name : pest_4
Filename : 284_066
Caldate : 24-SEP-2004

IDF : 1.0
Injected : 12-OCT-2004 05:43
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14530	13777	20.00000	18.96342	pg	-5	15	
gamma-BHC	A	13119	12296	20.00000	18.74632	pg	-6	15	
beta-BHC	A	5573.2	5345.9	20.00000	19.18437	pg	-4	15	
delta-BHC	A	13128	12375	20.00000	18.85289	pg	-6	15	
Heptachlor	A	10759	10370	20.00000	19.27631	pg	-4	15	
Aldrin	A	12104	11437	20.00000	18.89731	pg	-6	15	
Heptachlor epoxide	A	11281	10640	20.00000	18.86380	pg	-6	15	
gamma-Chlordane	A	11389	10696	20.00000	18.78273	pg	-6	15	
alpha-Chlordane	A	11028	10385	20.00000	18.83407	pg	-6	15	
4,4'-DDE	A	10910	10417	40.00000	38.19379	pg	-5	15	
Endosulfan I	A	10383	9895.4	20.00000	19.06173	pg	-5	15	
Dieldrin	A	11293	10808	40.00000	38.28190	pg	-4	15	
Endrin	A	8735.5	7942.3	40.00000	36.36797	pg	-9	15	
4,4'-DDD	A	9444.6	9071.6	40.00000	38.42020	pg	-4	15	
Endosulfan II	A	9750.1	9138.9	40.00000	37.49263	pg	-6	15	
4,4'-DDT	A	7654.9	6819.1	40.00000	35.63278	pg	-11	15	
Endrin aldehyde	A	7662.3	7453.5	40.00000	38.91009	pg	-3	15	
Methoxychlor	A	3379.6	3341.6	200.0000	197.7539	pg	-1	15	
Endosulfan sulfate	A	8615.6	8012.3	40.00000	37.19925	pg	-7	15	
Endrin ketone	A	10485	9838.8	40.00000	37.53545	pg	-6	15	
TCMX	A	9377.7	8785.0	40.00000	37.47183	pg	-6	15	
Decachlorobiphenyl	A	6642.4	5562.5	40.00000	33.49700	pg	**-16**	15	c-
alpha-BHC	B	14309	13806	20.00000	19.29642	pg	-4	15	
gamma-BHC	B	12938	12154	20.00000	18.78722	pg	-6	15	
beta-BHC	B	5790.6	5442.0	20.00000	18.79589	pg	-6	15	
delta-BHC	B	12965	12288	20.00000	18.95486	pg	-5	15	
Heptachlor	B	8561.9	7902.7	20.00000	18.46013	pg	-8	15	
Aldrin	B	12159	11568	20.00000	19.02742	pg	-5	15	
Heptachlor epoxide	B	11128	10615	20.00000	19.07878	pg	-5	15	
gamma-Chlordane	B	11544	10844	20.00000	18.78862	pg	-6	15	
alpha-Chlordane	B	11128	10543	20.00000	18.94751	pg	-5	15	
4,4'-DDE	B	10944	10465	40.00000	38.24964	pg	-4	15	
Endosulfan I	B	10427	9963.2	20.00000	19.11104	pg	-4	15	
Dieldrin	B	11102	10670	40.00000	38.44274	pg	-4	15	
Endrin	B	8166.7	7164.0	40.00000	35.08883	pg	-12	15	
4,4'-DDD	B	9180.4	9438.6	40.00000	41.12507	pg	3	15	
Endosulfan II	B	9634.2	9277.3	40.00000	38.51835	pg	-4	15	
4,4'-DDT	B	6626.8	4779.7	40.00000	28.85066	pg	**-28**	15	c- ***
Endrin aldehyde	B	7658.2	7452.5	40.00000	38.92589	pg	-3	15	
Methoxychlor	B	3060.9	2449.3	200.0000	160.0337	pg	**-20**	15	c- ***
Endosulfan sulfate	B	8711.7	7988.0	40.00000	36.67728	pg	-8	15	
Endrin ketone	B	10337	9660.3	40.00000	37.38193	pg	-7	15	
TCMX	B	9359.5	8875.7	40.00000	37.93240	pg	-5	15	
Decachlorobiphenyl	B	6102.7	4824.2	40.00000	31.62007	pg	**-21**	15	c-
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				8	15	

-=low bias c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 66

Date : 10/12/04 12:54:44 PM
Data Acquisition Time : 10/12/04 5:43:56 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\284a066p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.795	351400.61	37.4718	1.000	1	37.47
alpha-BHC	9.419	275533.00	18.9634	1.000	1	18.96
gamma-BHC	10.315	245925.00	18.7463	1.000	1	18.75
beta-BHC	10.580	106918.76	19.1844	1.000	1	19.18
delta-BHC	11.063	247493.50	18.8529	1.000	1	18.85
Heptachlor	11.617	207396.55	19.2763	1.000	1	19.28
Aldrin	12.418	228737.60	18.8973	1.000	1	18.90
Heptachlor epoxide	14.019	212795.07	18.8638	1.000	1	18.86
gamma-Chlordane	14.337	213919.00	18.7827	1.000	1	18.78
alpha-Chlordane	14.678	207705.20	18.8341	1.000	1	18.83
4,4'-DDE	14.888	416676.71	38.1938	1.000	1	38.19
Endosulfan I	15.021	197908.49	19.0617	1.000	1	19.06
Dieldrin	15.631	432311.16	38.2819	1.000	1	38.28
Endrin	16.206	317693.00	36.3680	1.000	1	36.37
4,4'-DDD	16.395	362862.50	38.4202	1.000	1	38.42
Endosulfan II	16.777	365557.13	37.4926	1.000	1	37.49
4,4'-DDT	17.083	272765.86	35.6328	1.000	1	35.63
Endrin aldehyde	17.823	298141.94	38.9101	1.000	1	38.91
Methoxychlor	18.296	668328.72	197.7539	1.000	1	197.75
Endosulfan sulfate	18.905	320492.31	37.1992	1.000	1	37.20
Endrin ketone	19.585	393552.39	37.5354	1.000	1	37.54
Decachlorobiphenyl	21.567	222500.26	33.4970	1.000	1	33.50
		6566614.75	796.2197			796.22

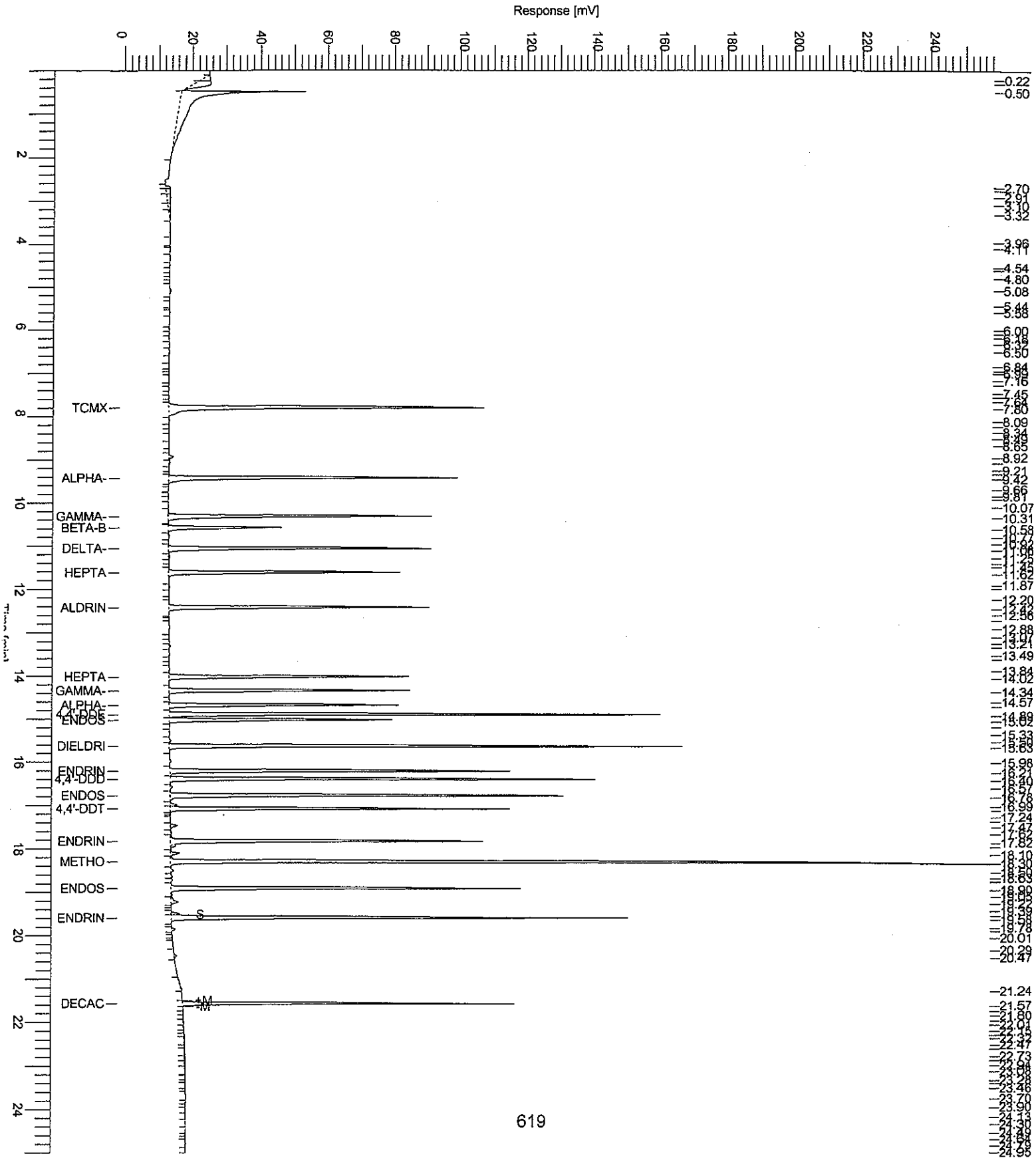
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\284a066p.TX0

RM
10/12/04

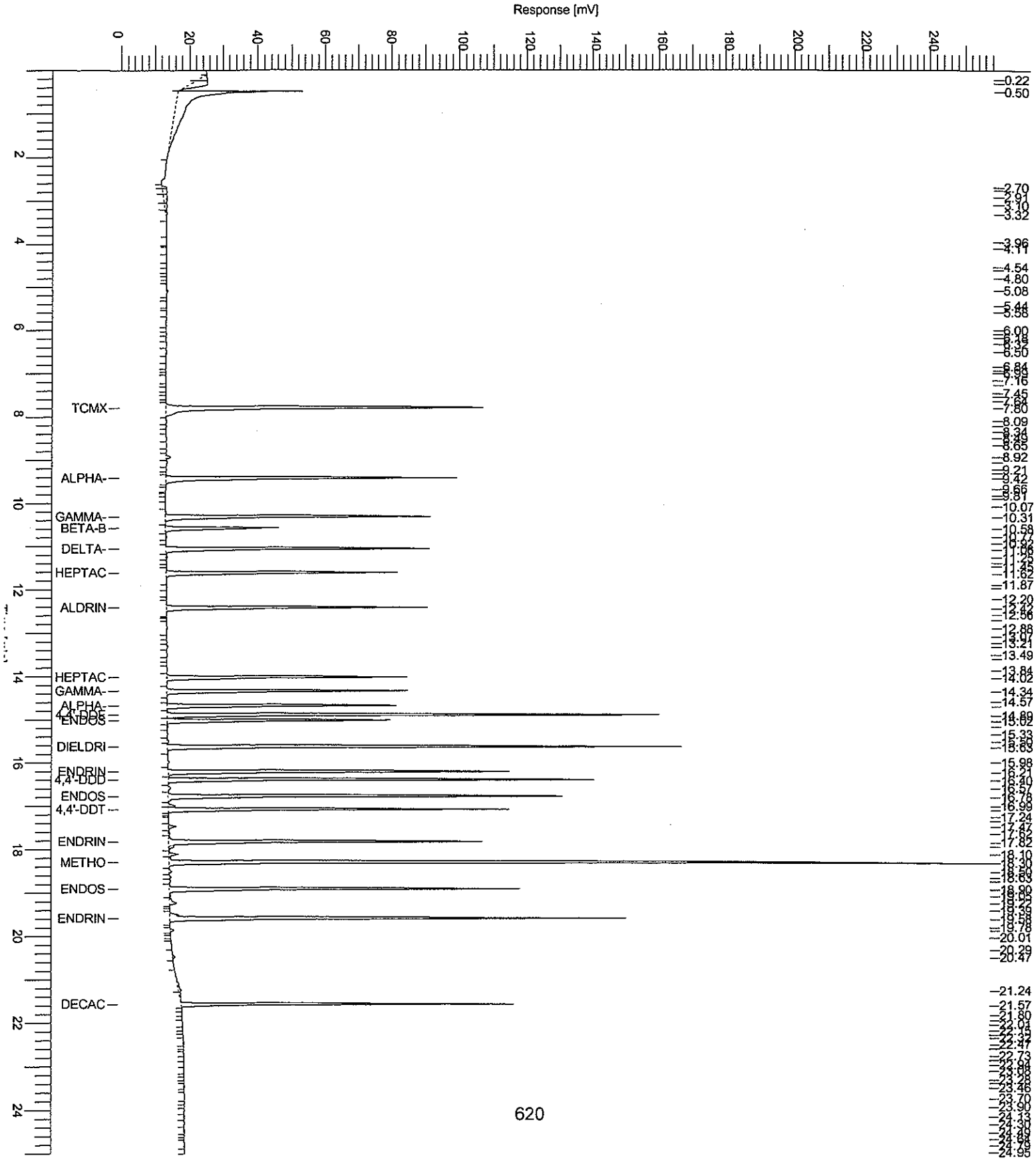
GC23 Rtx-CLPesticides

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
leName : G:\gc23\CHa\284a066.raw
ate : 10/12/04 12:54:47 PM
ethod : Time of Injection: 10/12/04 5:43:56 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.21 mV High Point : 258.20 mV
lot Offset: -1.21 mV Plot Scale: 259.4 mV



GC23 Rtx-CLPesticides

ımple Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
eName : G:\gc23\CHa\284a066.raw
ıte : 10/12/04 11:37:20 AM
ethod : gc23ins Time of Injection: 10/12/04 5:43:56 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -0.56 mV High Point : 258.20 mV
cale Factor: 1.0 Plot Offset: -0.56 mV Plot Scale: 258.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 66

Date : 10/12/04 12:53:49 PM
Data Acquisition Time : 10/12/04 5:43:56 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\284b066p.rst
Sequence File : G:\gc23\Files\284.seq

PEST GC23 CHANNEL B METH. 8081

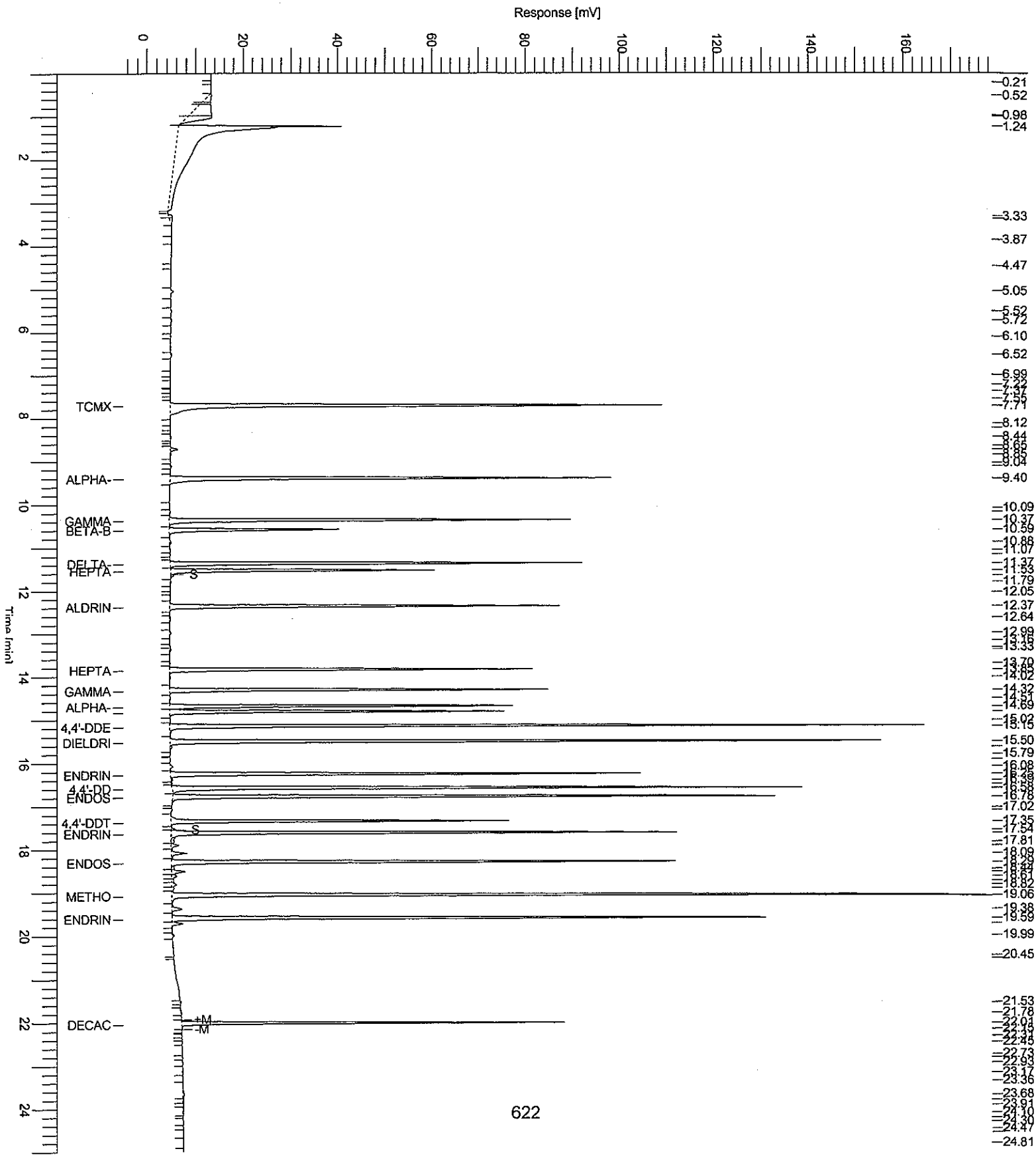
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.713	355029.00	37.9324	1.000	1	37.93
alpha-BHC	9.402	276120.00	19.2964	1.000	1	19.30
gamma-BHC	10.368	243074.21	18.7872	1.000	1	18.79
beta-BHC	10.588	108839.86	18.7959	1.000	1	18.80
delta-BHC	11.370	245750.00	18.9549	1.000	1	18.95
Heptachlor	11.534	158053.00	18.4601	1.000	1	18.46
Aldrin	12.369	231361.00	19.0274	1.000	1	19.03
Heptachlor epoxide	13.847	212300.21	19.0788	1.000	1	19.08
gamma-Chlordane	14.318	216889.13	18.7886	1.000	1	18.79
alpha-Chlordane	14.695	210852.59	18.9475	1.000	1	18.95
Endosulfan I	14.819	199263.44	19.1110	1.000	1	19.11
4,4'-DDE	15.151	418604.00	38.2496	1.000	1	38.25
Dieldrin	15.504	426808.41	38.4427	1.000	1	38.44
Endrin	16.254	286559.50	35.0888	1.000	1	35.09
4,4'-DDD	16.580	377545.00	41.1251	1.000	1	41.13
Endosulfan II	16.779	371092.00	38.5184	1.000	1	38.52
4,4'-DDT	17.348	191186.70	28.8507	1.000	1	28.85
Endrin aldehyde	17.616	298100.48	38.9259	1.000	1	38.93
Endosulfan sulfate	18.289	319520.89	36.6773	1.000	1	36.68
Methoxychlor	19.062	489851.13	160.0337	1.000	1	160.03
Endrin ketone	19.594	386412.98	37.3819	1.000	1	37.38
Decachlorobiphenyl	22.014	192967.45	31.6201	1.000	1	31.62
		6216180.98	752.0944			752.09

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\284b066p.TX0

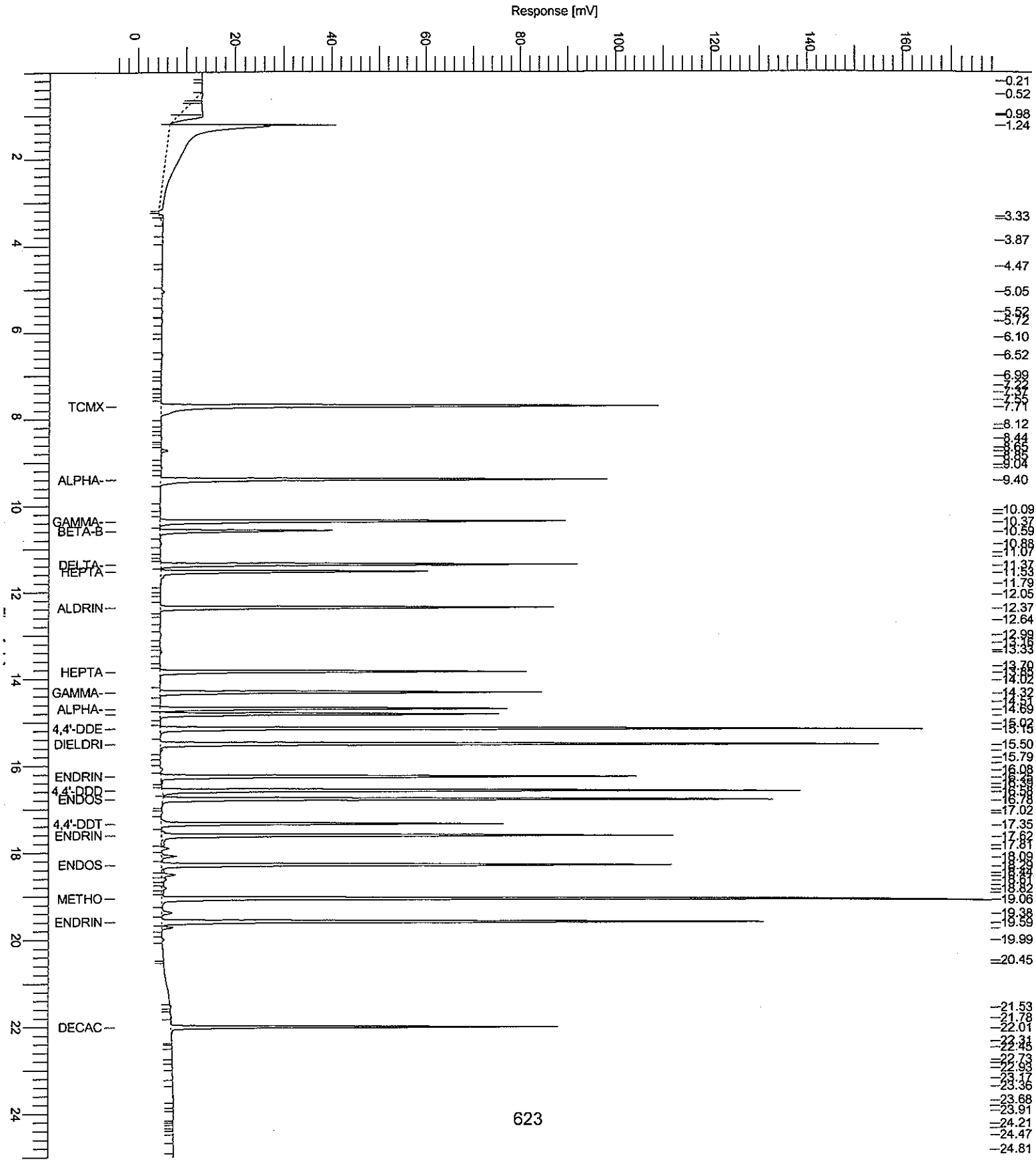
GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
leName : G:\gc23\CHb\284b066.raw
ate : 10/12/04 12:53:52 PM
ethod : Time of Injection: 10/12/04 5:43:56 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -4.93 mV High Point : 178.82 mV
lot Offset: -4.93 mV Plot Scale: 183.8 mV



GC23 Rtx-CLPesticides2

mple Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
eName : G:\gc23\CHb\284b066
ıte : 10/12/04 11:37:34 AM
ethod : gc23ins Time of Injection: 10/12/04 5:43:56 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -4.47 mV High Point : 178.82 mV
ale Factor: 1.0 Plot Offset: -4.47 mV Plot Scale: 183.3 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114002 Run Name: Injected: 13-OCT-2004 13:54
Filename: 287_002 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	367607.46
Endrin aldehyde	A	29657.26
Endrin ketone	A	44682.65

Endrin Breakdown %: **17 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	805886.01
4,4'-DDE	A	3187.37
4,4'-DDD	A	13518.86

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	249708.21
Endrin aldehyde	B	7198.52
Endrin ketone	B	8666

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	421548.33
4,4'-DDE	B	1584.5
4,4'-DDD	B	5797.21

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 2

Date : 10/13/04 4:57:39 PM
Data Acquisition Time : 10/13/04 1:54:01 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a002p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.631	170.75	0.0186	1.000	1	0.02
alpha-BHC	9.247	136303.63	9.5442	1.000	1	9.54
gamma-BHC	10.135	126588.93	9.7562	1.000	1	9.76
beta-BHC	10.400	56029.00	10.0338	1.000	1	10.03
delta-BHC	10.885	674.00	0.0521	1.000	1	0.05
Heptachlor	11.420	470.32	0.0416	1.000	1	0.04
Aldrin	12.269	675.92	0.0572	1.000	1	0.06
Heptachlor epoxide	13.833	653.92	0.0596	1.000	1	0.06
gamma-Chlordane	14.149	462.59	0.0417	1.000	1	0.04
alpha-Chlordane	14.484	172.17	0.0161	1.000	1	0.02
4,4'-DDE	14.700	3187.37	0.3025	1.000	1	0.30
Endosulfan I	14.830	690.58	0.0682	1.000	1	0.07
Dieldrin	15.427	380.12	0.0349	1.000	1	0.03
Endrin	16.005	367607.46	42.5594	1.000	1	42.56
4,4'-DDD	16.202	13518.86	1.5569	1.000	1	1.56
Endosulfan II	16.564	473.80	0.0509	1.000	1	0.05
4,4'-DDT	16.886	805886.01	96.4794	1.000	1	96.48
Endrin aldehyde	17.620	29657.26	3.9731	1.000	1	3.97
Methoxychlor	18.099	876719.03	238.1139	1.000	1	238.11
Endosulfan sulfate	18.706	539.33	0.0649	1.000	1	0.06
Endrin ketone	19.367	44682.65	4.3323	1.000	1	4.33
Decachlorobiphenyl	21.400	0.00	0.0000	1.000	1	0.00
		2465543.70	417.1575			417.16

GP
10/13/-1

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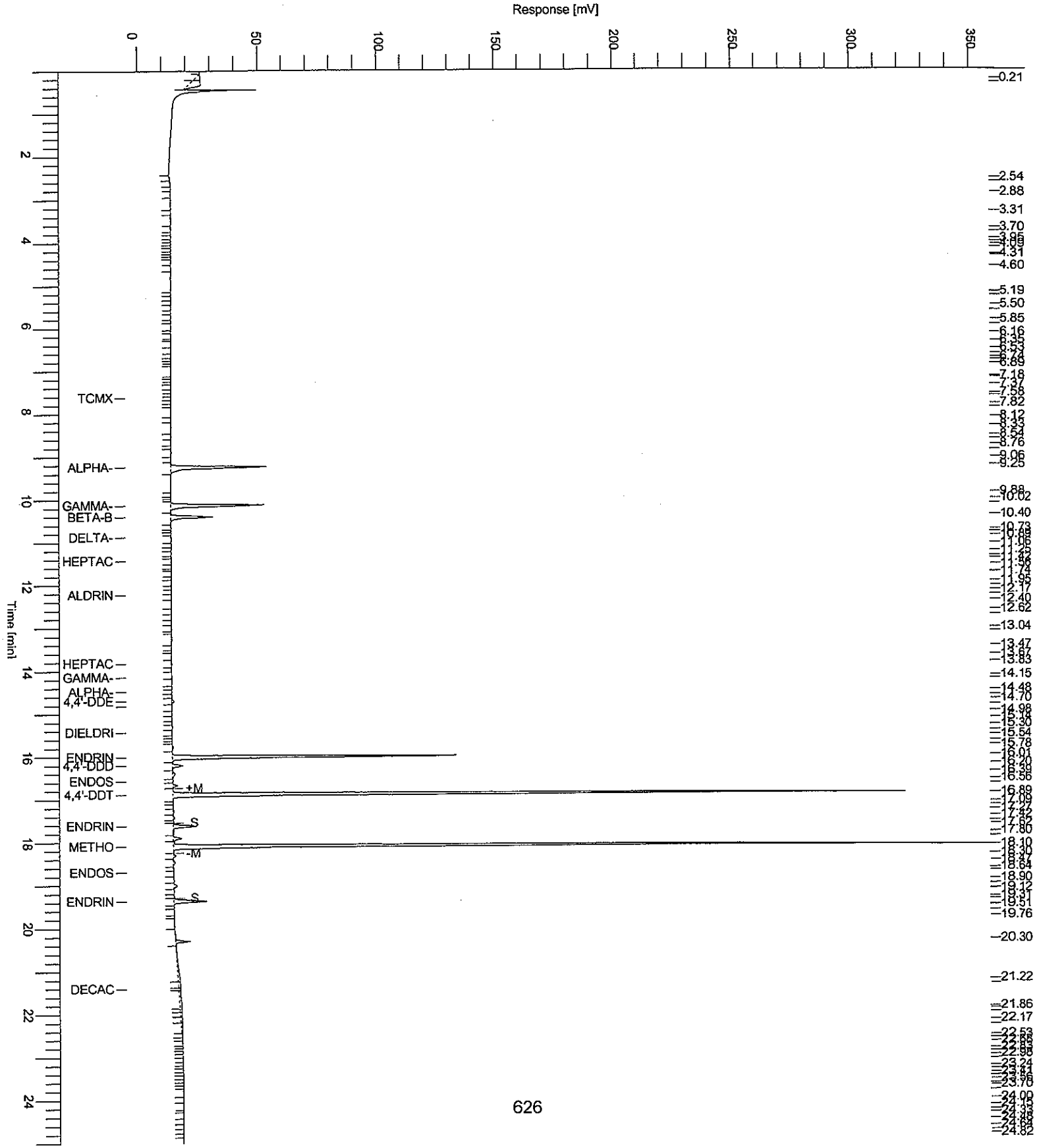
Report stored in ASCII file: G:\gc23\CHA\287a002p.TX0

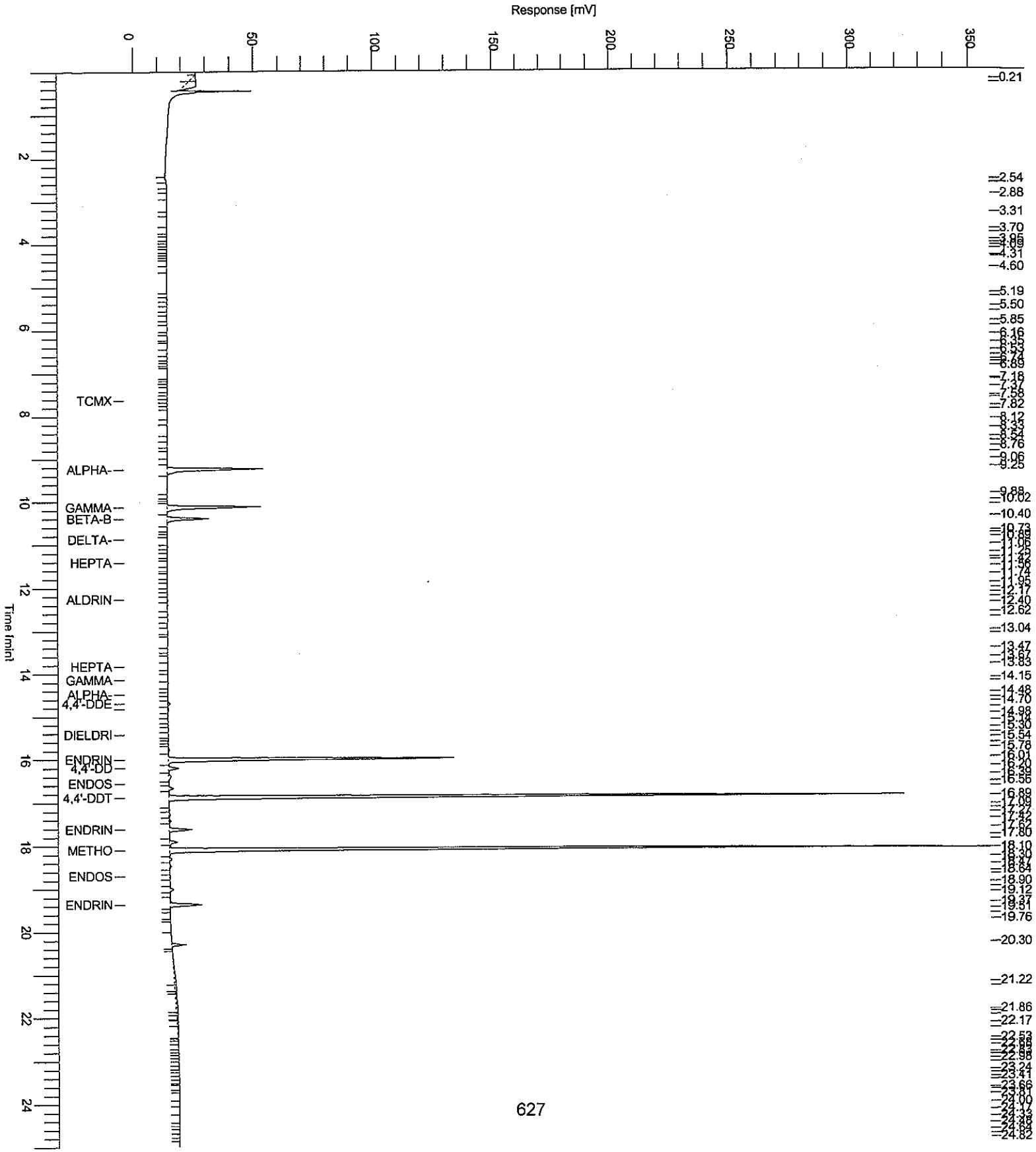
GC23 Rtx-CLPesticides

Sample Name : pem,04ws1614 Sample #: Page 1 of 1
FileName : G:\gc23\CHA\287a002.raw
Date : 10/13/04 4:57:44 PM
Method : Time of Injection: 10/13/04 1:54:01 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -5.22 mV High Point : 358.92 mV
Plot Offset: -5.22 mV Plot Scale: 364.1 mV



GC23 Rtx-CLPesticides

Sample Name : pem,04ws1614 Sample #: Page 1 of 1
FileName : G:\gc23\CHA\287a002.raw
Date : 10/13/04 3:34:14 PM
Method : gc23ins Time of Injection: 10/13/04 1:54:01 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -4.31 mV High Point : 358.92 mV
Scale Factor: 1.0 Plot Offset: -4.31 mV Plot Scale: 363.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 2

Date : 10/13/04 3:34:26 PM
Data Acquisition Time : 10/13/04 1:54:01 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b002.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.238	76178.00	7.4800	1.000	1	7.48
gamma-BHC	10.202	70324.00	7.6396	1.000	1	7.64
beta-BHC	10.428	31506.00	7.7427	1.000	1	7.74
delta-BHC	11.207	294.00	0.0325	1.000	1	0.03
Heptachlor	11.362	0.00	0.0000	1.000	1	0.00
Aldrin	12.194	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.670	72.00	0.0090	1.000	1	0.01
gamma-Chlordane	14.133	140.00	0.0171	1.000	1	0.02
alpha-Chlordane	14.520	190.27	0.0239	1.000	1	0.02
Endosulfan I	14.648	417.73	0.0556	1.000	1	0.06
4,4'-DDE	14.983	1584.50	0.2001	1.000	1	0.20
Dieldrin	15.333	119.00	0.0147	1.000	1	0.01
Endrin	16.079	249708.21	38.3699	1.000	1	38.37
4,4'-DDD	16.412	5797.21	0.8986	1.000	1	0.90
Endosulfan II	16.596	1099.00	0.1566	1.000	1	0.16
4,4'-DDT	17.178	421548.33	76.8813	1.000	1	76.88
Endrin aldehyde	17.438	7198.52	1.2867	1.000	1	1.29
Endosulfan sulfate	18.100	2175.97	0.3464	1.000	1	0.35
Methoxychlor	18.894	488916.00	193.3238	1.000	1	193.32
Endrin ketone	19.414	8666.00	1.1564	1.000	1	1.16
Decachlorobiphenyl	21.867	0.00	0.0000	1.000	1	0.00
		1365934.74	335.6349			335.63

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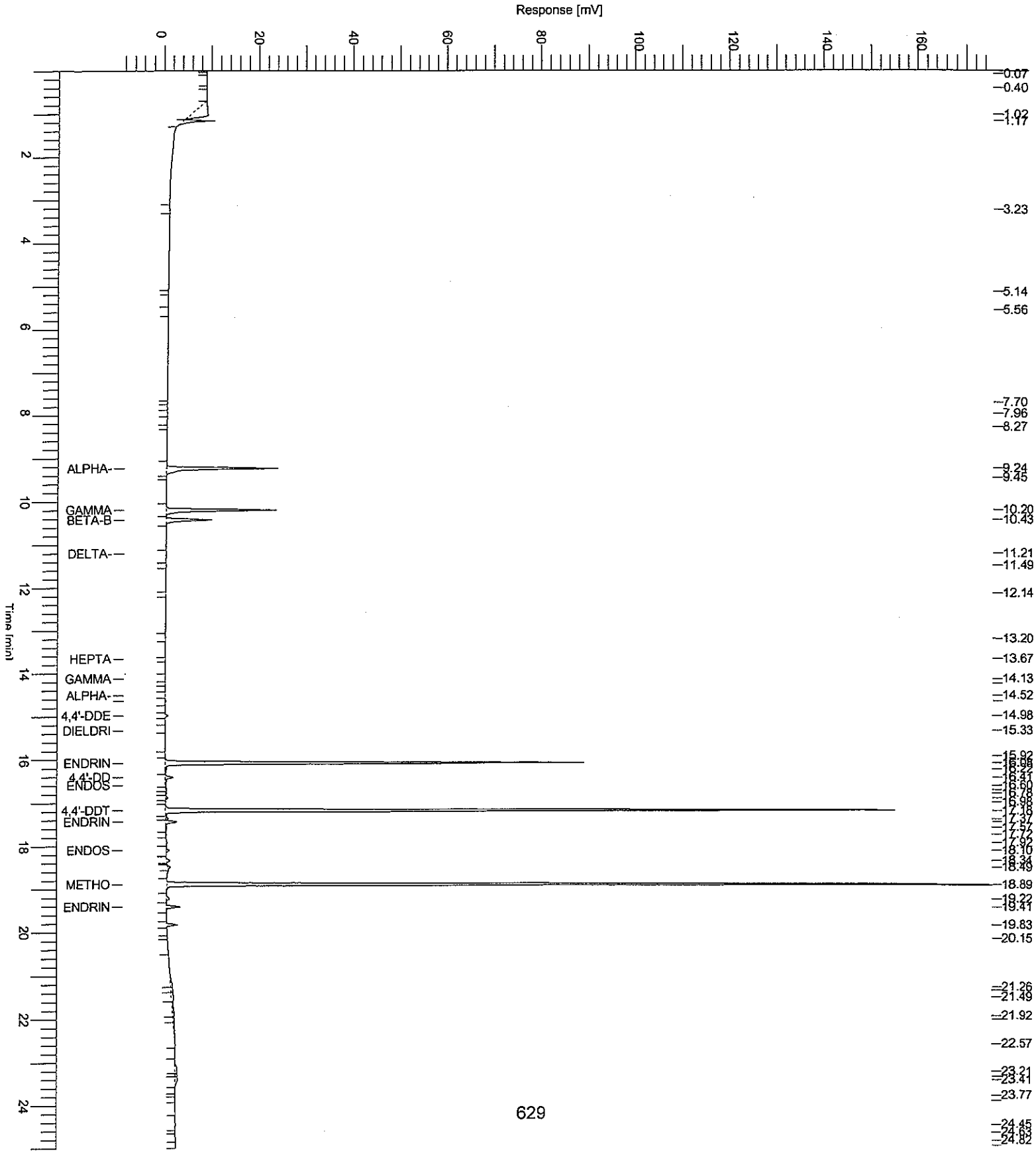
Report stored in ASCII file: G:\gc23\CHB\287b002.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\287b002
ate : 10/13/04 3:34:29 PM
ethod : gc23ins Time of Injection: 10/13/04 1:54:01 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.11 mV High Point : 175.57 mV
cale Factor: 1.0 Plot Offset: -8.11 mV Plot Scale: 183.7 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804414114003
Calnum : 804412857001
Standards: 04WS1632

Run Name : pest_4
Filename : 287_003
Caldate : 12-OCT-2004

IDF : 1.0
Injected : 13-OCT-2004 14:24
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	15167	20.00000	21.24076	pg	6	15	
gamma-BHC	A	12975	13842	20.00000	21.33608	pg	7	15	
beta-BHC	A	5584.0	6007.7	20.00000	21.51756	pg	8	15	
delta-BHC	A	12934	13724	20.00000	21.22091	pg	6	15	
Heptachlor	A	11292	11864	20.00000	21.01223	pg	5	15	
Aldrin	A	11818	12499	20.00000	21.15330	pg	6	15	
Heptachlor epoxide	A	10970	11613	20.00000	21.17254	pg	6	15	
gamma-Chlordane	A	11087	11736	20.00000	21.17039	pg	6	15	
alpha-Chlordane	A	10673	11355	20.00000	21.27700	pg	6	15	
4,4'-DDE	A	10537	11479	40.00000	43.57805	pg	9	15	
Endosulfan I	A	10128	10850	20.00000	21.42635	pg	7	15	
Dieldrin	A	10899	11778	40.00000	43.22440	pg	8	15	
Endrin	A	8637.5	9253.2	40.00000	42.85118	pg	7	15	
4,4'-DDD	A	8683.1	9297.1	40.00000	42.82856	pg	7	15	
Endosulfan II	A	9314.0	10036	40.00000	43.10127	pg	8	15	
4,4'-DDT	A	8352.9	9181.5	40.00000	43.96780	pg	10	15	
Endrin aldehyde	A	7464.5	7789.4	40.00000	41.74101	pg	4	15	
Methoxychlor	A	3681.9	4197.7	200.0000	228.0142	pg	14	15	
Endosulfan sulfate	A	8314.1	8790.2	40.00000	42.29071	pg	6	15	
Endrin ketone	A	10314	11061	40.00000	42.89560	pg	7	15	
TCMX	A	9191.2	9685.5	40.00000	42.15099	pg	5	15	
Decachlorobiphenyl	A	6490.2	6865.4	40.00000	42.31233	pg	6	15	
alpha-BHC	B	10184	9131.5	20.00000	17.93259	pg	-10	15	
gamma-BHC	B	9205.2	8295.4	20.00000	18.02326	pg	-10	15	
beta-BHC	B	4069.1	3604.3	20.00000	17.71526	pg	-11	15	
delta-BHC	B	9048.9	8213.7	20.00000	18.15403	pg	-9	15	
Heptachlor	B	6311.0	5392.3	20.00000	17.08870	pg	-15	15	
Aldrin	B	8642.9	7933.8	20.00000	18.35909	pg	-8	15	
Heptachlor epoxide	B	7991.6	7344.4	20.00000	18.38011	pg	-8	15	
gamma-Chlordane	B	8205.8	7652.0	20.00000	18.65029	pg	-7	15	
alpha-Chlordane	B	7973.5	7458.7	20.00000	18.70885	pg	-6	15	
4,4'-DDE	B	7918.8	7664.2	40.00000	38.71378	pg	-3	15	
Endosulfan I	B	7514.9	7038.9	20.00000	18.73322	pg	-6	15	
Dieldrin	B	8095.3	7767.1	40.00000	38.37824	pg	-4	15	
Endrin	B	6507.9	6195.3	40.00000	38.07847	pg	-5	15	
4,4'-DDD	B	6451.1	6180.5	40.00000	38.32223	pg	-4	15	
Endosulfan II	B	7016.4	6771.3	40.00000	38.60282	pg	-3	15	
4,4'-DDT	B	5483.1	5129.5	40.00000	37.42035	pg	-6	15	
Endrin aldehyde	B	5594.5	5135.8	40.00000	36.72048	pg	-8	15	
Methoxychlor	B	2529.0	2501.6	200.0000	197.8332	pg	-1	15	
Endosulfan sulfate	B	6281.2	5894.9	40.00000	37.53972	pg	-6	15	
Endrin ketone	B	7493.8	7176.8	40.00000	38.30789	pg	-4	15	
TCMX	B	6828.8	6105.1	40.00000	35.76086	pg	-11	15	
Decachlorobiphenyl	B	4724.7	4647.9	40.00000	39.34998	pg	-2	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				7	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 3

Date : 10/14/04 10:53:28 AM
Data Acquisition Time : 10/13/04 2:24:22 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a003p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.622	387419.82	42.1510	1.000	1	42.15
alpha-BHC	9.240	303346.00	21.2408	1.000	1	21.24
gamma-BHC	10.132	276841.63	21.3361	1.000	1	21.34
beta-BHC	10.398	120154.55	21.5176	1.000	1	21.52
delta-BHC	10.878	274475.93	21.2209	1.000	1	21.22
Heptachlor	11.431	237278.05	21.0122	1.000	1	21.01
Aldrin	12.229	249983.32	21.1533	1.000	1	21.15
Heptachlor epoxide	13.823	232269.16	21.1725	1.000	1	21.17
gamma-Chlordane	14.144	234722.00	21.1704	1.000	1	21.17
alpha-Chlordane	14.480	227090.87	21.2770	1.000	1	21.28
4,4'-DDE	14.698	459170.25	43.5781	1.000	1	43.58
Endosulfan I	14.821	217008.54	21.4263	1.000	1	21.43
Dieldrin	15.430	471100.03	43.2244	1.000	1	43.22
Endrin	16.003	370127.63	42.8512	1.000	1	42.85
4,4'-DDD	16.197	371882.60	42.8286	1.000	1	42.83
Endosulfan II	16.569	401447.32	43.1013	1.000	1	43.10
4,4'-DDT	16.884	367259.91	43.9678	1.000	1	43.97
Endrin aldehyde	17.617	311574.38	41.7410	1.000	1	41.74
Methoxychlor	18.097	839532.74	228.0142	1.000	1	228.01
Endosulfan sulfate	18.698	351607.66	42.2907	1.000	1	42.29
Endrin ketone	19.370	442420.85	42.8956	1.000	1	42.90
Decachlorobiphenyl	21.401	274614.00	42.3123	1.000	1	42.31
		7421327.24	911.4832			911.48

GP 10/14/04

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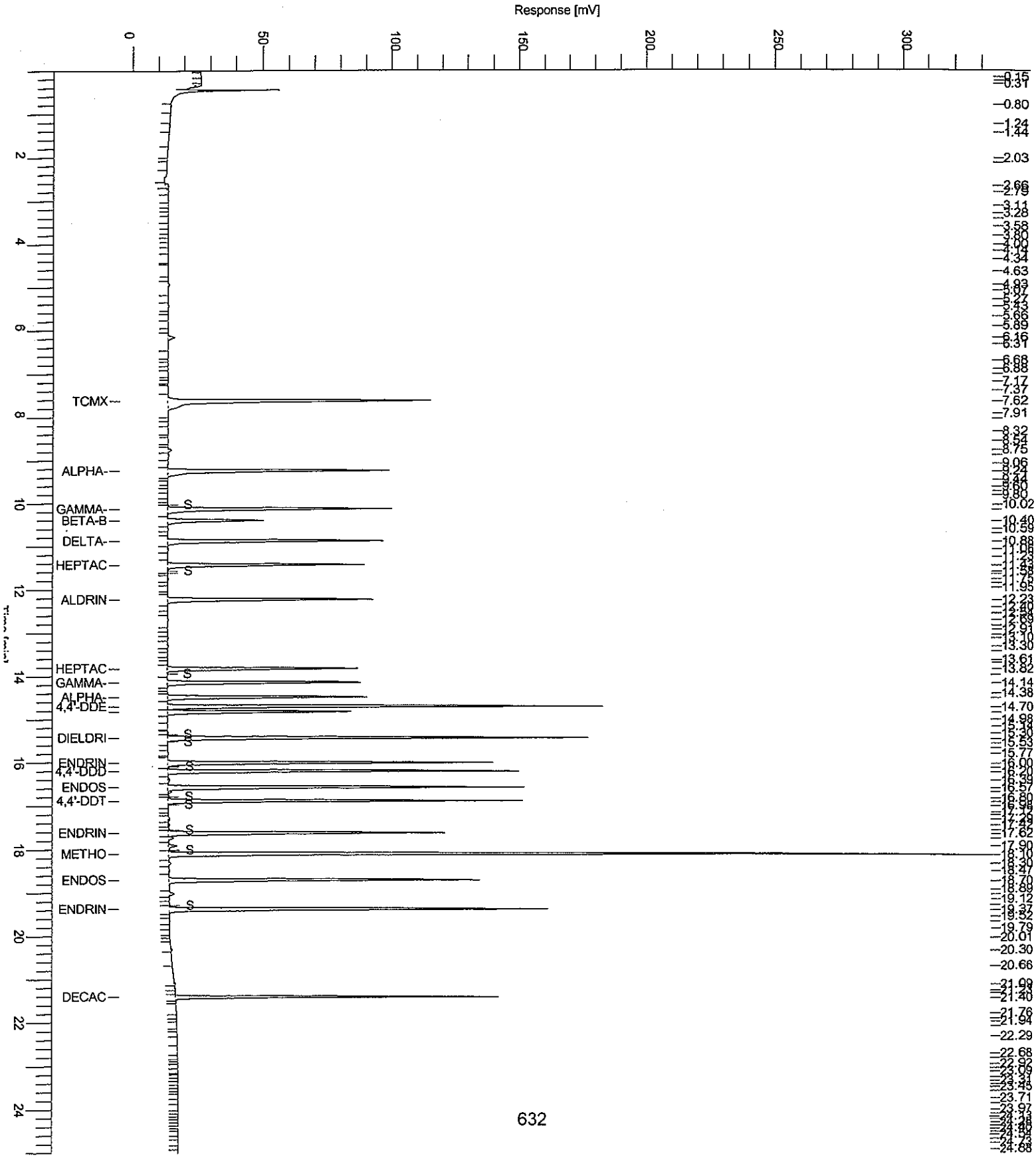
Report stored in ASCII file: G:\gc23\CHA\287a003p.TX0

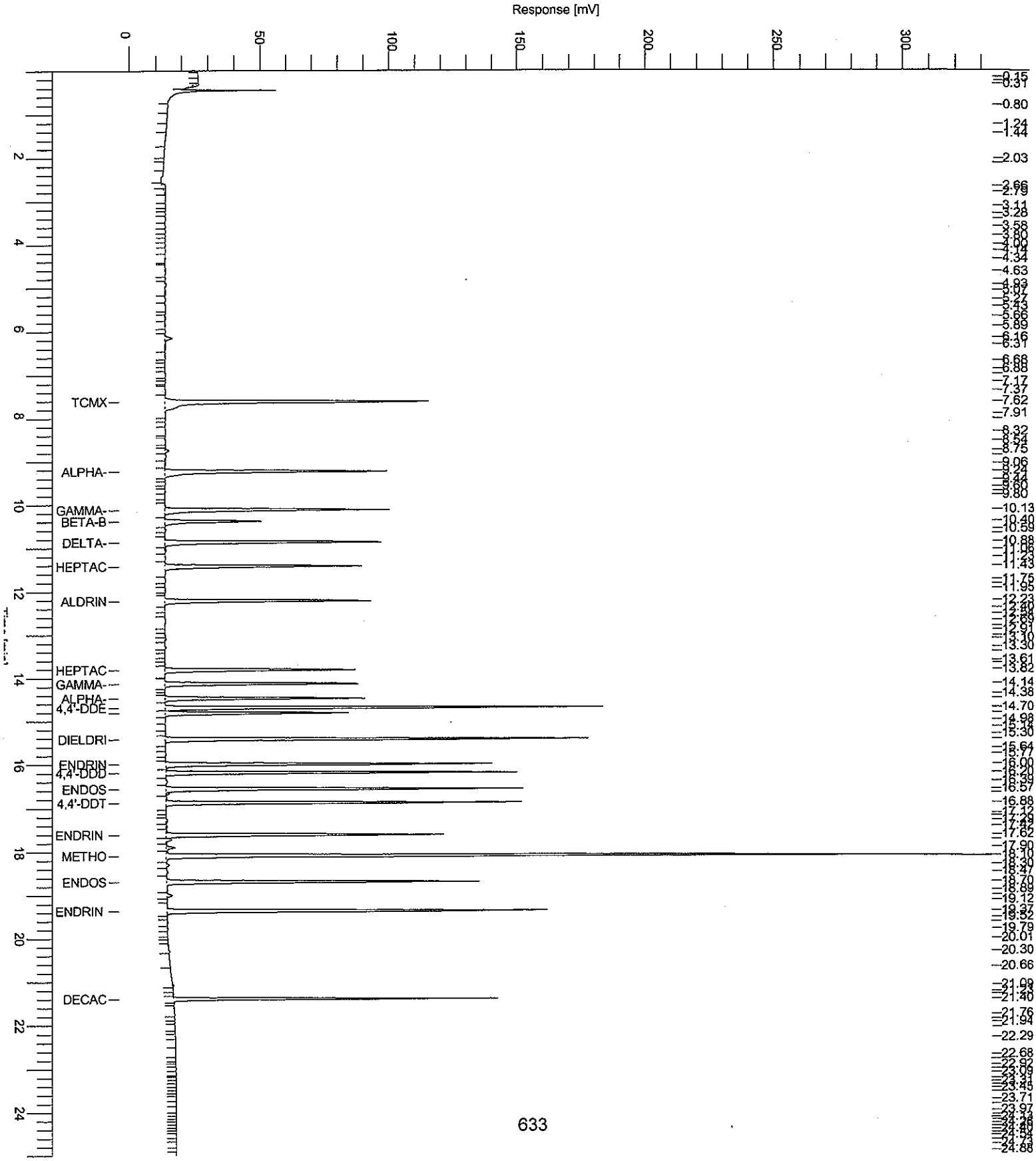
GC23 Rtx-CLPesticides

Sample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
FileName : G:\gc23\CHA\287a003.raw
Date : 10/14/04 10:53:36 AM
Method : Time of Injection: 10/13/04 2:24:22 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -4.91 mV High Point : 334.58 mV
Plot Offset: -4.91 mV Plot Scale: 339.5 mV



GC23 Rtx-CLPesticides

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHA\287a003.raw
ate : 10/13/04 3:34:19 PM
lethod : gc23ins Time of Injection: 10/13/04 2:24:22 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -4.06 mV High Point : 334.58 mV
cale Factor: 1.0 Plot Offset: -4.06 mV Plot Scale: 338.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 3

Date : 10/14/04 11:31:20 AM
Data Acquisition Time : 10/13/04 2:24:22 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b003p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.548	244204.00	35.7609	1.000	1	35.76
alpha-BHC	9.236	182630.00	17.9326	1.000	1	17.93
gamma-BHC	10.200	165907.00	18.0233	1.000	1	18.02
beta-BHC	10.421	72086.00	17.7153	1.000	1	17.72
delta-BHC	11.201	164274.00	18.1540	1.000	1	18.15
Heptachlor	11.364	107846.00	17.0887	1.000	1	17.09
Aldrin	12.196	158676.00	18.3591	1.000	1	18.36
Heptachlor epoxide	13.669	146887.11	18.3801	1.000	1	18.38
gamma-Chlordane	14.144	153040.02	18.6503	1.000	1	18.65
alpha-Chlordane	14.516	149174.97	18.7089	1.000	1	18.71
Endosulfan I	14.639	140777.77	18.7332	1.000	1	18.73
4,4'-DDE	14.981	306568.50	38.7138	1.000	1	38.71
Dieldrin	15.329	310685.00	38.3782	1.000	1	38.38
Endrin	16.072	247811.37	38.0785	1.000	1	38.08
4,4'-DDD	16.402	247219.86	38.3222	1.000	1	38.32
Endosulfan II	16.597	270851.63	38.6028	1.000	1	38.60
4,4'-DDT	17.170	205179.82	37.4203	1.000	1	37.42
Endrin aldehyde	17.434	205431.00	36.7205	1.000	1	36.72
Endosulfan sulfate	18.112	235795.32	37.5397	1.000	1	37.54
Methoxychlor	18.886	500320.14	197.8332	1.000	1	197.83
Endrin ketone	19.406	287070.00	38.3079	1.000	1	38.31
Decachlorobiphenyl	21.867	185917.69	39.3500	1.000	1	39.35
		4688353.20	796.7734			796.77

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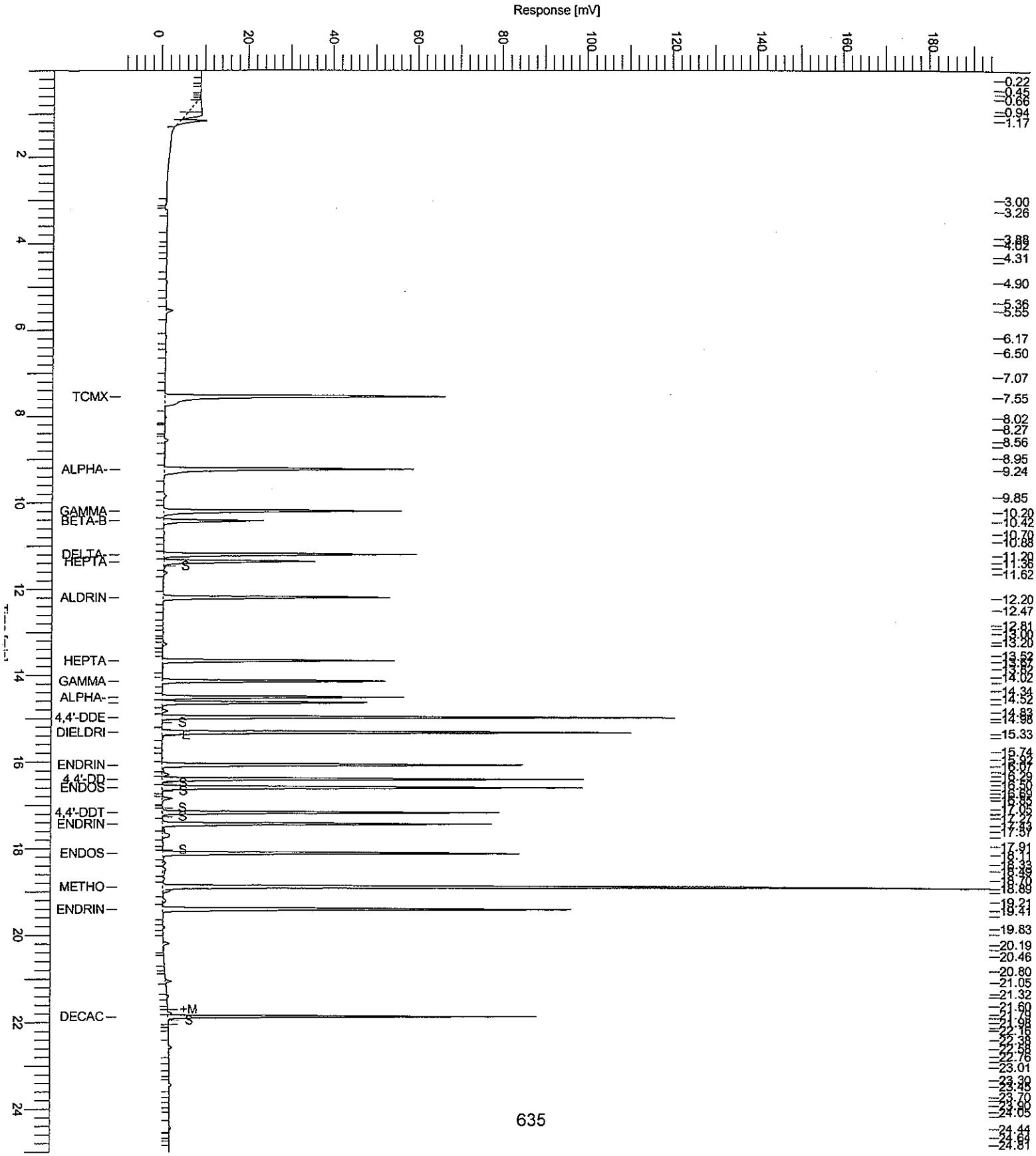
Report stored in ASCII file: G:\gc23\CHB\287b003p.TX0

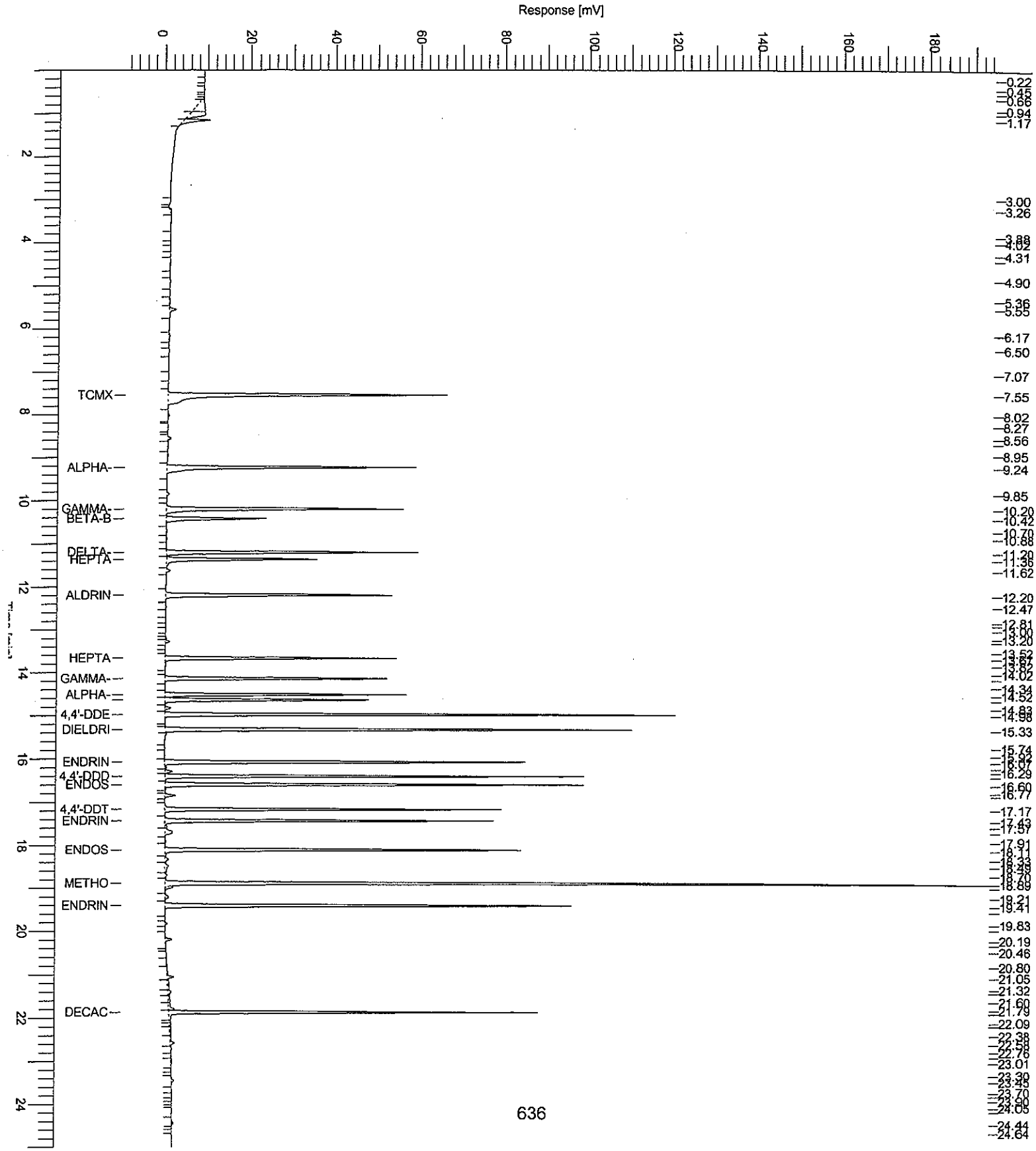
GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHb\287b003.raw
ate : 10/14/04 11:31:25 AM
lethod : Time of Injection: 10/13/04 2:24:22 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -9.41 mV High Point : 194.62 mV
lot Offset: -9.41 mV Plot Scale: 204.0 mV



GC23 Rtx-CLPesticides2

ample Name : ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHb\287b003
ate : 10/13/04 3:34:35 PM
ethod : gc23ins Time of Injection: 10/13/04 2:24:22 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.90 mV High Point : 194.62 mV
cale Factor: 1.0 Plot Offset: -8.90 mV Plot Scale: 203.5 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114019 Run Name: Injected: 14-OCT-2004 00:15
Filename: 287_019 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	366135.5
Endrin aldehyde	A	38958.48
Endrin ketone	A	65739.21

Endrin Breakdown %: **22 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	777275.38
4,4'-DDE	A	3401.44
4,4'-DDD	A	36688

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	309401.94
Endrin aldehyde	B	9660.38
Endrin ketone	B	17338.71

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	519578.11
4,4'-DDE	B	2347.5
4,4'-DDD	B	16229.46

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 10/14/04 10:57:57 AM
Data Acquisition Time : 10/14/04 12:15:11 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a019p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.657	149.00	0.0162	1.000	1	0.02
alpha-BHC	9.247	139929.00	9.7980	1.000	1	9.80
gamma-BHC	10.135	131068.21	10.1014	1.000	1	10.10
beta-BHC	10.401	57695.50	10.3322	1.000	1	10.33
delta-BHC	10.884	829.33	0.0641	1.000	1	0.06
Heptachlor	11.432	563.46	0.0499	1.000	1	0.05
Aldrin	12.256	352.00	0.0298	1.000	1	0.03
Heptachlor epoxide	13.842	1063.00	0.0969	1.000	1	0.10
gamma-Chlordane	14.148	542.54	0.0489	1.000	1	0.05
alpha-Chlordane	14.480	140.00	0.0131	1.000	1	0.01
4,4'-DDE	14.702	3401.44	0.3228	1.000	1	0.32
Endosulfan I	14.836	500.55	0.0494	1.000	1	0.05
Dieldrin	15.431	369.00	0.0339	1.000	1	0.03
Endrin	16.012	366135.50	42.3890	1.000	1	42.39
4,4'-DDD	16.202	36688.00	4.2252	1.000	1	4.23
Endosulfan II	16.571	206.63	0.0222	1.000	1	0.02
4,4'-DDT	16.888	777275.38	93.0542	1.000	1	93.05
Endrin aldehyde	17.622	38958.48	5.2192	1.000	1	5.22
Methoxychlor	18.101	852964.36	231.6622	1.000	1	231.66
Endosulfan sulfate	18.716	368.21	0.0443	1.000	1	0.04
Endrin ketone	19.372	65739.21	6.3738	1.000	1	6.37
Decachlorobiphenyl	21.406	14016.24	2.1596	1.000	1	2.16
		2488955.04	416.1065			416.11

CL
10/14/04

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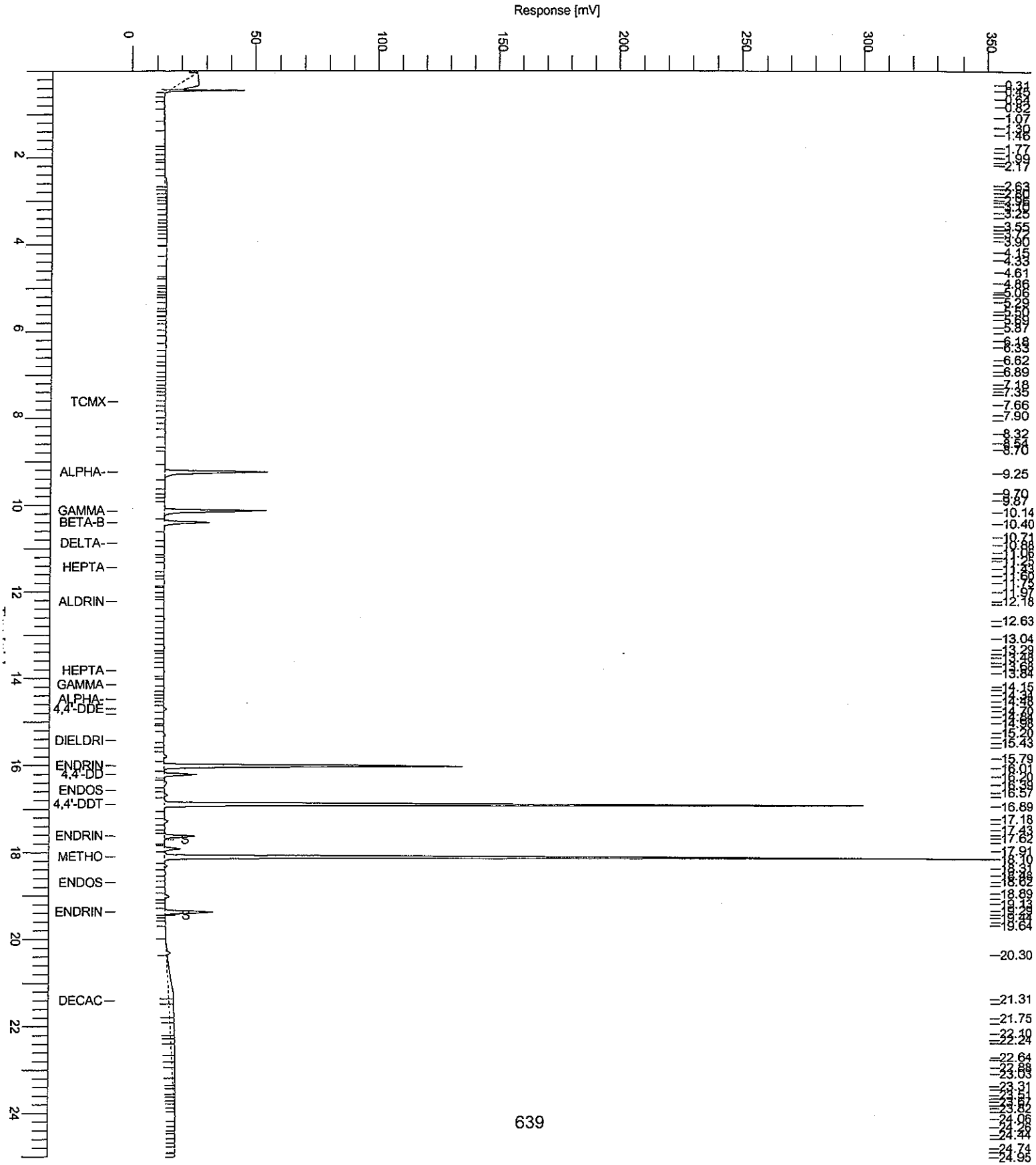
Report stored in ASCII file: G:\gc23\CHA\287a019p.TX0

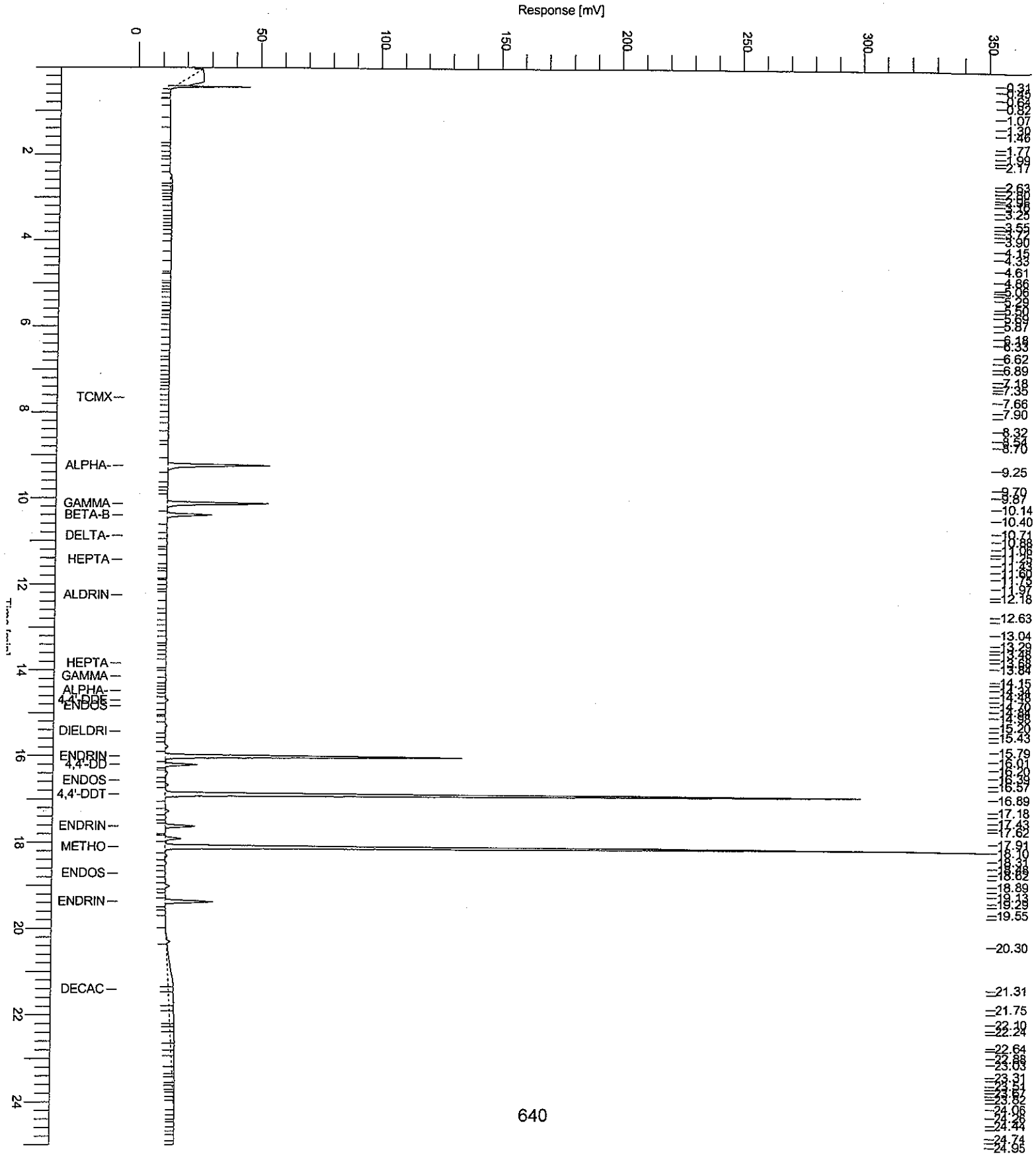
GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc23\CHa\287a019.raw
ate : 10/14/04 10:58:03 AM
ethod : Time of Injection: 10/14/04 12:15:11 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -5.21 mV High Point : 352.55 mV
lot Offset: -5.21 mV Plot Scale: 357.8 mV



GC23 Rtx-CLPesticides

Sample Name : pem,04ws1614 Sample #:
FileName : G:\gc23\CHa\287a019.raw
Date : 10/14/04 10:32:31 AM
Method : gc23ins Time of Injection: 10/14/04 12:15:11 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -4.32 mV High Point : 352.55 mV
Scale Factor: 1.0 Plot Offset: -4.32 mV Plot Scale: 356.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 10/14/04 10:32:04 AM
Data Acquisition Time : 10/14/04 12:15:11 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b019.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.237	95332.49	9.3608	1.000	1	9.36
gamma-BHC	10.202	89003.00	9.6688	1.000	1	9.67
beta-BHC	10.429	39979.00	9.8249	1.000	1	9.82
delta-BHC	11.208	188.00	0.0208	1.000	1	0.02
Heptachlor	11.362	0.00	0.0000	1.000	1	0.00
Aldrin	12.194	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.682	92.00	0.0115	1.000	1	0.01
gamma-Chlordane	14.136	597.40	0.0728	1.000	1	0.07
alpha-Chlordane	14.516	0.00	0.0000	1.000	1	0.00
Endosulfan I	14.651	465.00	0.0619	1.000	1	0.06
4,4'-DDE	14.986	2347.50	0.2964	1.000	1	0.30
Dieldrin	15.340	81.00	0.0100	1.000	1	0.01
Endrin	16.081	309401.94	47.5424	1.000	1	47.54
4,4'-DDD	16.414	16229.46	2.5158	1.000	1	2.52
Endosulfan II	16.602	1235.00	0.1760	1.000	1	0.18
4,4'-DDT	17.180	519578.11	94.7598	1.000	1	94.76
Endrin aldehyde	17.445	9660.38	1.7268	1.000	1	1.73
Endosulfan sulfate	18.102	2683.81	0.4273	1.000	1	0.43
Methoxychlor	18.896	590077.73	233.3245	1.000	1	233.32
Endrin ketone	19.415	17338.71	2.3138	1.000	1	2.31
Decachlorobiphenyl	21.870	15248.57	3.2274	1.000	1	3.23
		1709539.10	415.3416			415.34

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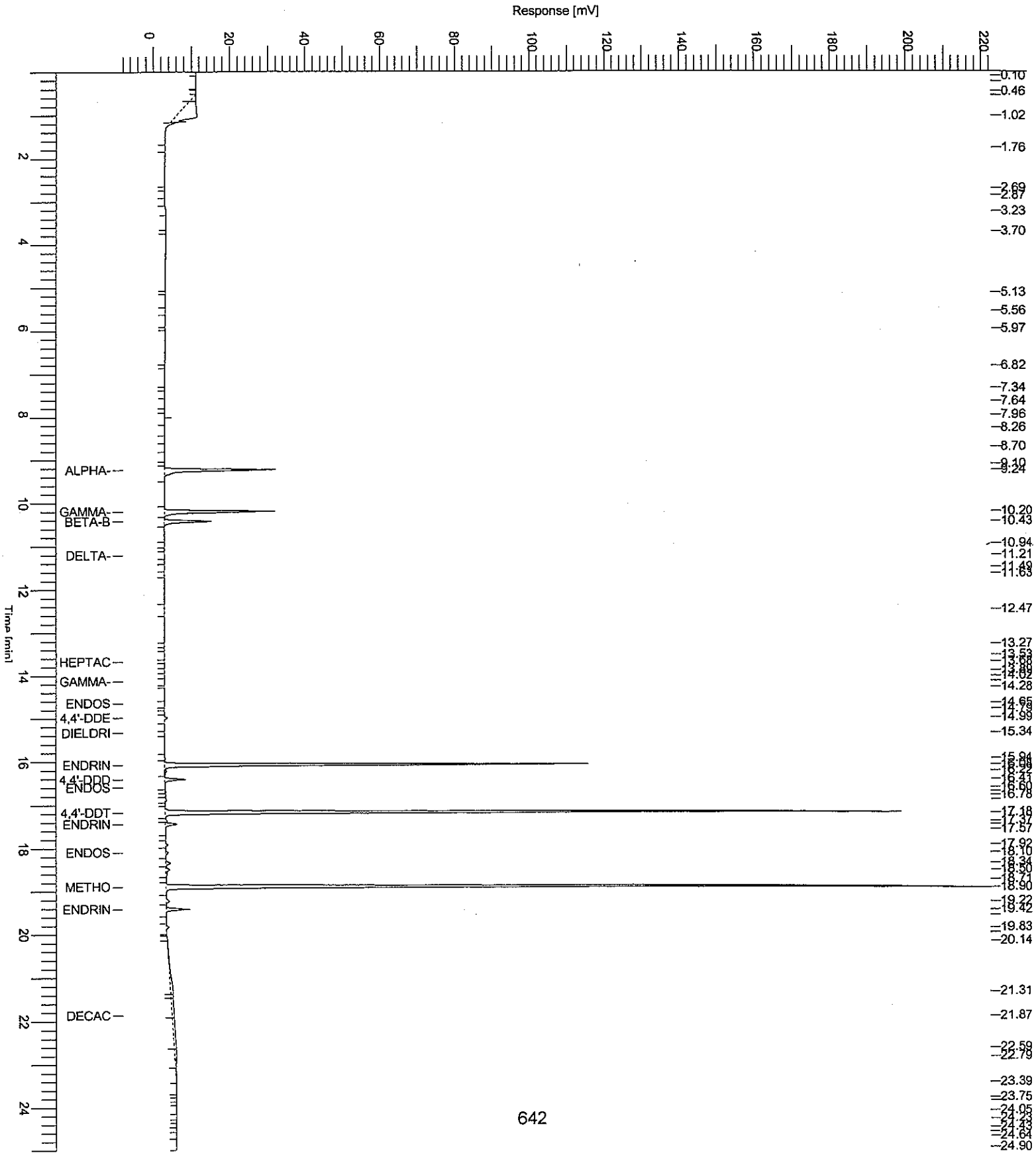
Report stored in ASCII file: G:\gc23\CHB\287b019.TX0

GC23 Rtx-CLPesticides2

Sample Name : pem,04ws1614 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\287b019
Date : 10/14/04 10:32:06 AM
Method : gc23ins Time of Injection: 10/14/04 12:15:11 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -8.19 mV High Point : 222.67 mV
Scale Factor: 1.0 Plot Offset: -8.19 mV Plot Scale: 230.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804414114021 Filename : 287_021 Injected : 14-OCT-2004 01:15
Calnum : 804412857001 Caldate : 12-OCT-2004 Caltype :
Standards: 04WS1630

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	14500	10.00000	10.15314	pg	2	15	
gamma-BHC	A	12975	13215	10.00000	10.18508	pg	2	15	
beta-BHC	A	5584.0	5806.0	10.00000	10.39754	pg	4	15	
delta-BHC	A	12934	12983	10.00000	10.03803	pg	0	15	
Heptachlor	A	11292	10995	10.00000	9.737008	pg	-3	15	
Aldrin	A	11818	12142	10.00000	10.27455	pg	3	15	
Heptachlor epoxide	A	10970	11246	10.00000	10.25167	pg	3	15	
gamma-Chlordane	A	11087	11340	10.00000	10.22787	pg	2	15	
alpha-Chlordane	A	10673	10944	10.00000	10.25366	pg	3	15	
4,4'-DDE	A	10537	10518	20.00000	19.96447	pg	0	15	
Endosulfan I	A	10128	10454	10.00000	10.32218	pg	3	15	
Dieldrin	A	10899	11003	20.00000	20.19144	pg	1	15	
Endrin	A	8637.5	7918.0	20.00000	18.33388	pg	-8	15	
4,4'-DDD	A	8683.1	8884.9	20.00000	20.46495	pg	2	15	
Endosulfan II	A	9314.0	9362.6	20.00000	20.10425	pg	1	15	
4,4'-DDT	A	8352.9	7192.8	20.00000	17.22221	pg	-14	15	
Endrin aldehyde	A	7464.5	7811.6	20.00000	20.93011	pg	5	15	
Methoxychlor	A	3681.9	3196.2	100.0000	86.80852	pg	-13	15	
Endosulfan sulfate	A	8314.1	8255.3	20.00000	19.85872	pg	-1	15	
Endrin ketone	A	10314	10511	20.00000	20.38307	pg	2	15	
TCMX	A	9191.2	9541.1	20.00000	20.76135	pg	4	15	
Decachlorobiphenyl	A	6490.2	6200.1	20.00000	19.10620	pg	-4	15	
alpha-BHC	B	10184	9944.1	10.00000	9.764223	pg	-2	15	
gamma-BHC	B	9205.2	9082.6	10.00000	9.866856	pg	-1	15	
beta-BHC	B	4069.1	4069.9	10.00000	10.00185	pg	0	15	
delta-BHC	B	9048.9	8836.2	10.00000	9.764942	pg	-2	15	
Heptachlor	B	6311.0	6063.1	10.00000	9.607264	pg	-4	15	
Aldrin	B	8642.9	8538.7	10.00000	9.879369	pg	-1	15	
Heptachlor epoxide	B	7991.6	7931.7	10.00000	9.925023	pg	-1	15	
gamma-Chlordane	B	8205.8	8094.4	10.00000	9.864272	pg	-1	15	
alpha-Chlordane	B	7973.5	7901.8	10.00000	9.910069	pg	-1	15	
4,4'-DDE	B	7918.8	7821.0	20.00000	19.75276	pg	-1	15	
Endosulfan I	B	7514.9	7463.2	10.00000	9.931220	pg	-1	15	
Dieldrin	B	8095.3	8066.2	20.00000	19.92790	pg	0	15	
Endrin	B	6507.9	6213.8	20.00000	19.09615	pg	-5	15	
4,4'-DDD	B	6451.1	6348.9	20.00000	19.68305	pg	-2	15	
Endosulfan II	B	7016.4	6928.0	20.00000	19.74796	pg	-1	15	
4,4'-DDT	B	5483.1	4958.1	20.00000	18.08482	pg	-10	15	
Endrin aldehyde	B	5594.5	5550.3	20.00000	19.84213	pg	-1	15	
Methoxychlor	B	2529.0	2341.3	100.0000	92.57679	pg	-7	15	
Endosulfan sulfate	B	6281.2	6065.3	20.00000	19.31247	pg	-3	15	
Endrin ketone	B	7493.8	7477.8	20.00000	19.95741	pg	0	15	
TCMX	B	6828.8	6474.5	20.00000	18.96217	pg	-5	15	
Decachlorobiphenyl	B	4724.7	4506.1	20.00000	19.07445	pg	-5	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				3	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 10/14/04 11:10:15 AM
Data Acquisition Time : 10/14/04 1:15:53 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a021p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.621	190822.50	20.7613	1.000	1	20.76
alpha-BHC	9.240	145000.26	10.1531	1.000	1	10.15
gamma-BHC	10.132	132154.24	10.1851	1.000	1	10.19
beta-BHC	10.398	58060.12	10.3975	1.000	1	10.40
delta-BHC	10.878	129834.15	10.0380	1.000	1	10.04
Heptachlor	11.431	109953.95	9.7370	1.000	1	9.74
Aldrin	12.229	121421.49	10.2745	1.000	1	10.27
Heptachlor epoxide	13.828	112463.94	10.2517	1.000	1	10.25
gamma-Chlordane	14.145	113399.25	10.2279	1.000	1	10.23
alpha-Chlordane	14.481	109437.98	10.2537	1.000	1	10.25
4,4'-DDE	14.699	210360.29	19.9645	1.000	1	19.96
Endosulfan I	14.821	104544.21	10.3222	1.000	1	10.32
Dieldrin	15.431	220065.25	20.1914	1.000	1	20.19
Endrin	16.004	158359.11	18.3339	1.000	1	18.33
4,4'-DDD	16.198	177698.21	20.4649	1.000	1	20.46
Endosulfan II	16.570	187251.94	20.1042	1.000	1	20.10
4,4'-DDT	16.885	143855.90	17.2222	1.000	1	17.22
Endrin aldehyde	17.619	156232.08	20.9301	1.000	1	20.93
Methoxychlor	18.099	319623.07	86.8085	1.000	1	86.81
Endosulfan sulfate	18.699	165106.67	19.8587	1.000	1	19.86
Endrin ketone	19.371	210228.89	20.3831	1.000	1	20.38
Decachlorobiphenyl	21.401	124002.37	19.1062	1.000	1	19.11
		3399875.89	405.9699			405.97

CH
10/14/04

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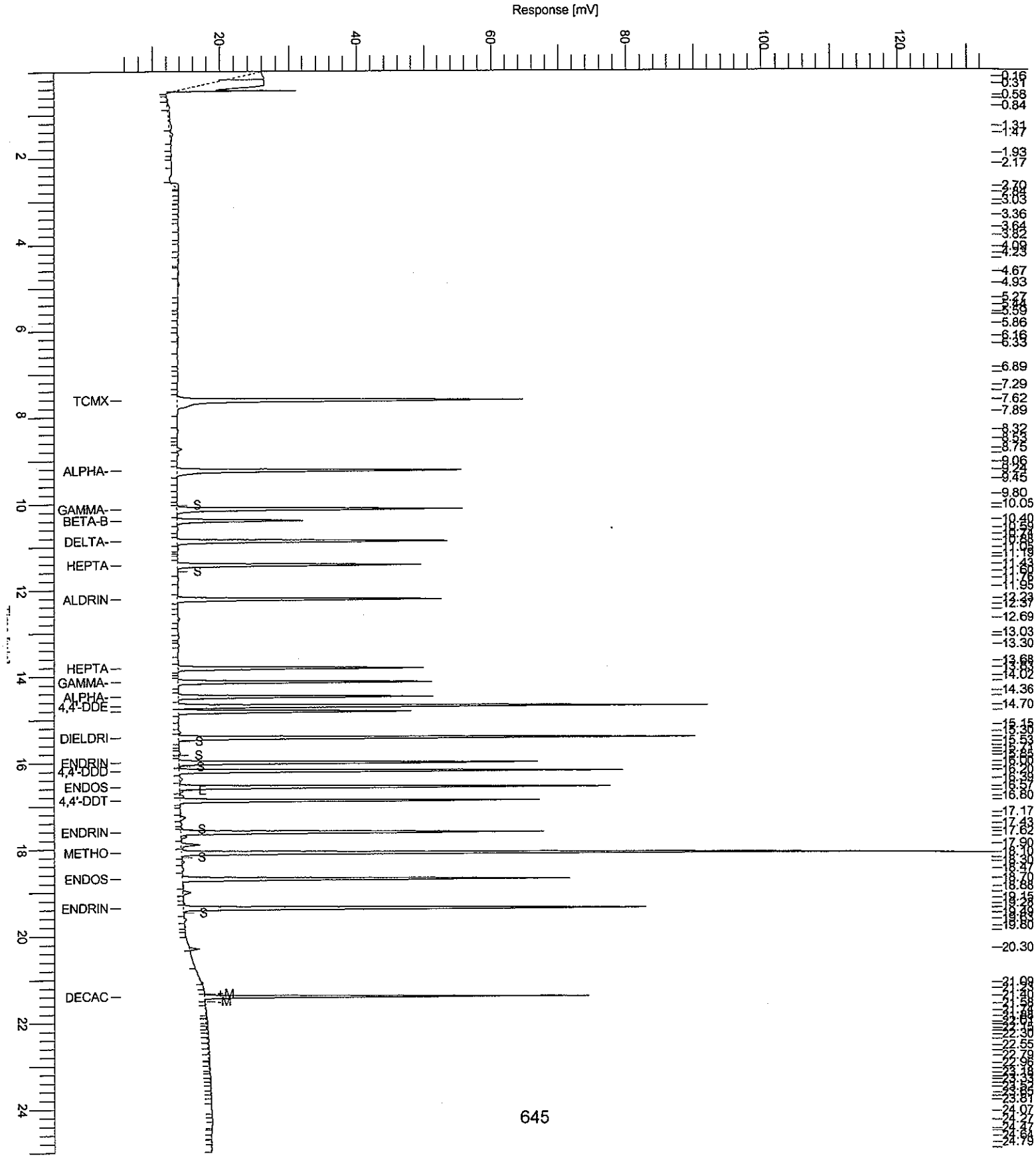
Report stored in ASCII file: G:\gc23\CHA\287a021p.TX0

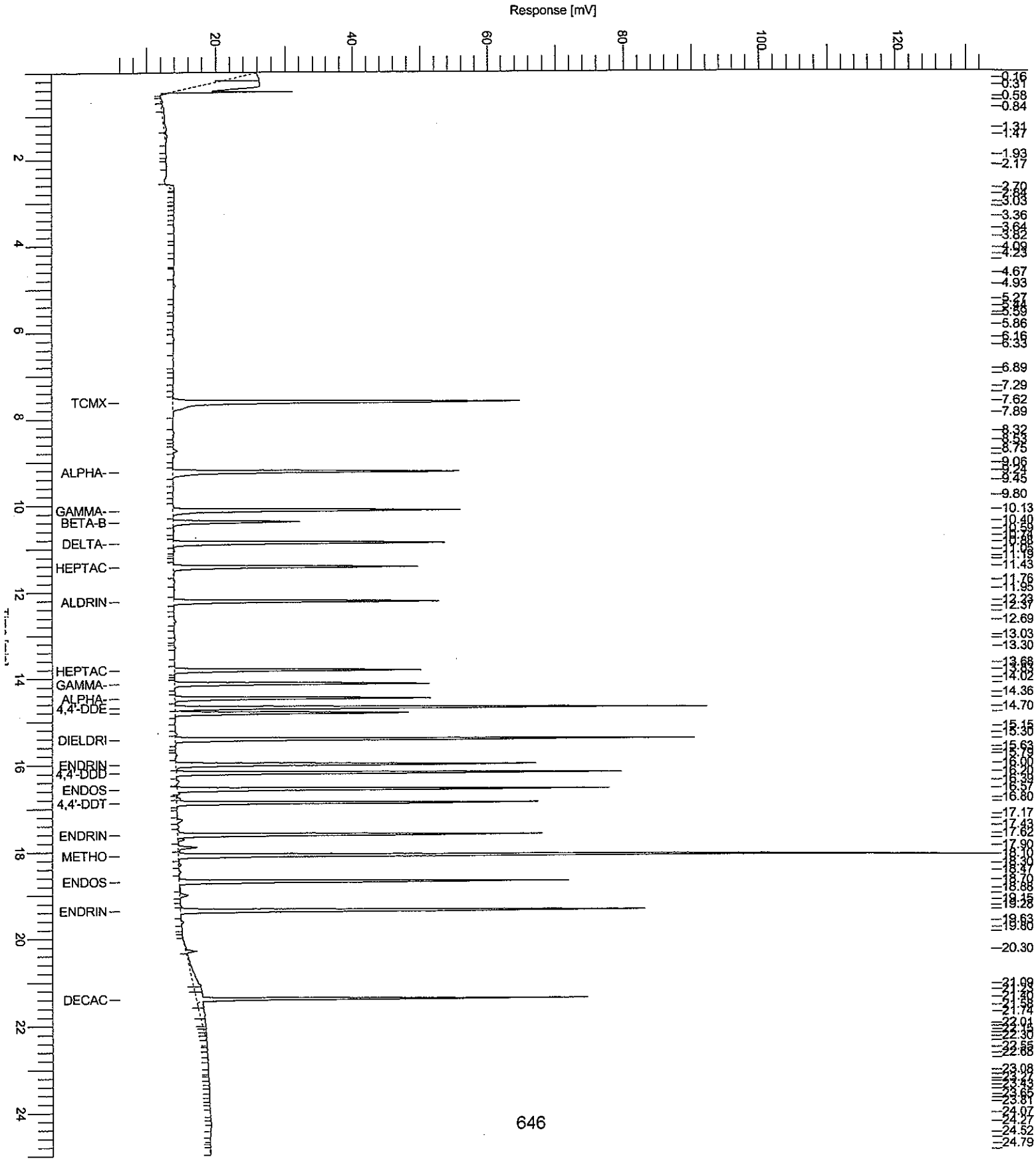
GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
leName : G:\gc23\CHa\287a021.raw
ate : 10/14/04 11:10:20 AM
lethod : Time of Injection: 10/14/04 1:15:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 5.52 mV High Point : 133.77 mV
lot Offset: 5.52 mV Plot Scale: 128.2 mV



GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
ileName : G:\gc23\CHa\287a021.raw
ate : 10/14/04 10:32:42 AM
lethod : gc23ins Time of Injection: 10/14/04 1:15:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 5.84 mV High Point : 133.77 mV
cale Factor: 1.0 Plot Offset: 5.84 mV Plot Scale: 127.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 10/14/04 11:08:39 AM
Data Acquisition Time : 10/14/04 1:15:53 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b021p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	129489.00	18.9622	1.000	1	18.96
alpha-BHC	9.235	99441.30	9.7642	1.000	1	9.76
gamma-BHC	10.199	90826.00	9.8669	1.000	1	9.87
beta-BHC	10.421	40699.00	10.0019	1.000	1	10.00
delta-BHC	11.201	88362.00	9.7649	1.000	1	9.76
Heptachlor	11.363	60631.00	9.6073	1.000	1	9.61
Aldrin	12.195	85386.50	9.8794	1.000	1	9.88
Heptachlor epoxide	13.669	79317.15	9.9250	1.000	1	9.93
gamma-Chlordane	14.145	80943.96	9.8643	1.000	1	9.86
alpha-Chlordane	14.516	79017.89	9.9101	1.000	1	9.91
Endosulfan I	14.644	74631.87	9.9312	1.000	1	9.93
4,4'-DDE	14.981	156419.12	19.7528	1.000	1	19.75
Dieldrin	15.329	161323.14	19.9279	1.000	1	19.93
Endrin	16.078	124276.09	19.0962	1.000	1	19.10
4,4'-DDD	16.403	126977.00	19.6831	1.000	1	19.68
Endosulfan II	16.598	138559.00	19.7480	1.000	1	19.75
4,4'-DDT	17.171	99161.05	18.0848	1.000	1	18.08
Endrin aldehyde	17.435	111005.88	19.8421	1.000	1	19.84
Endosulfan sulfate	18.114	121305.88	19.3125	1.000	1	19.31
Methoxychlor	18.888	234126.75	92.5768	1.000	1	92.58
Endrin ketone	19.412	149556.00	19.9574	1.000	1	19.96
Decachlorobiphenyl	21.867	90121.44	19.0744	1.000	1	19.07
		2421577.01	404.5332			404.53

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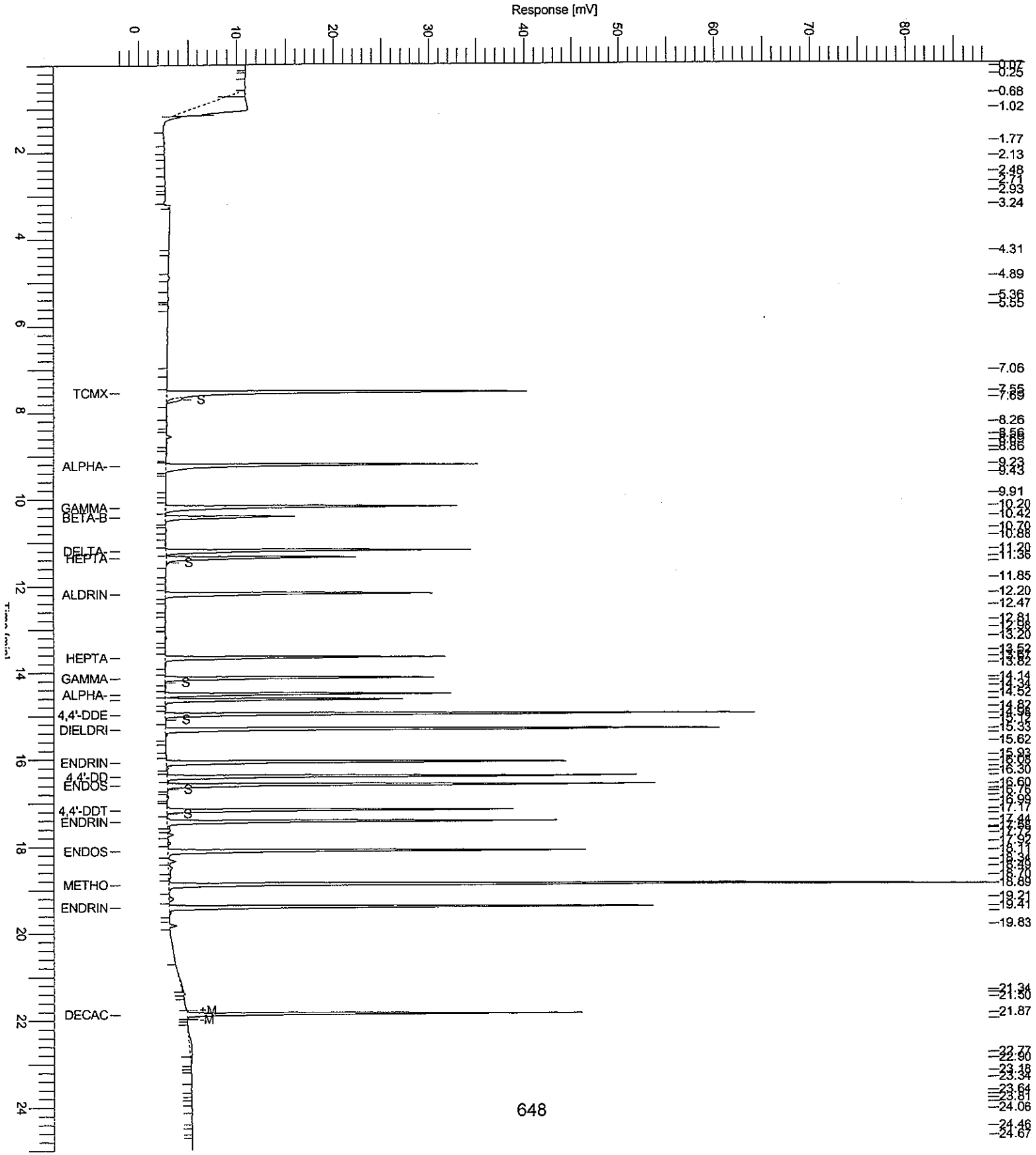
Report stored in ASCII file: G:\gc23\CHB\287b021p.TX0

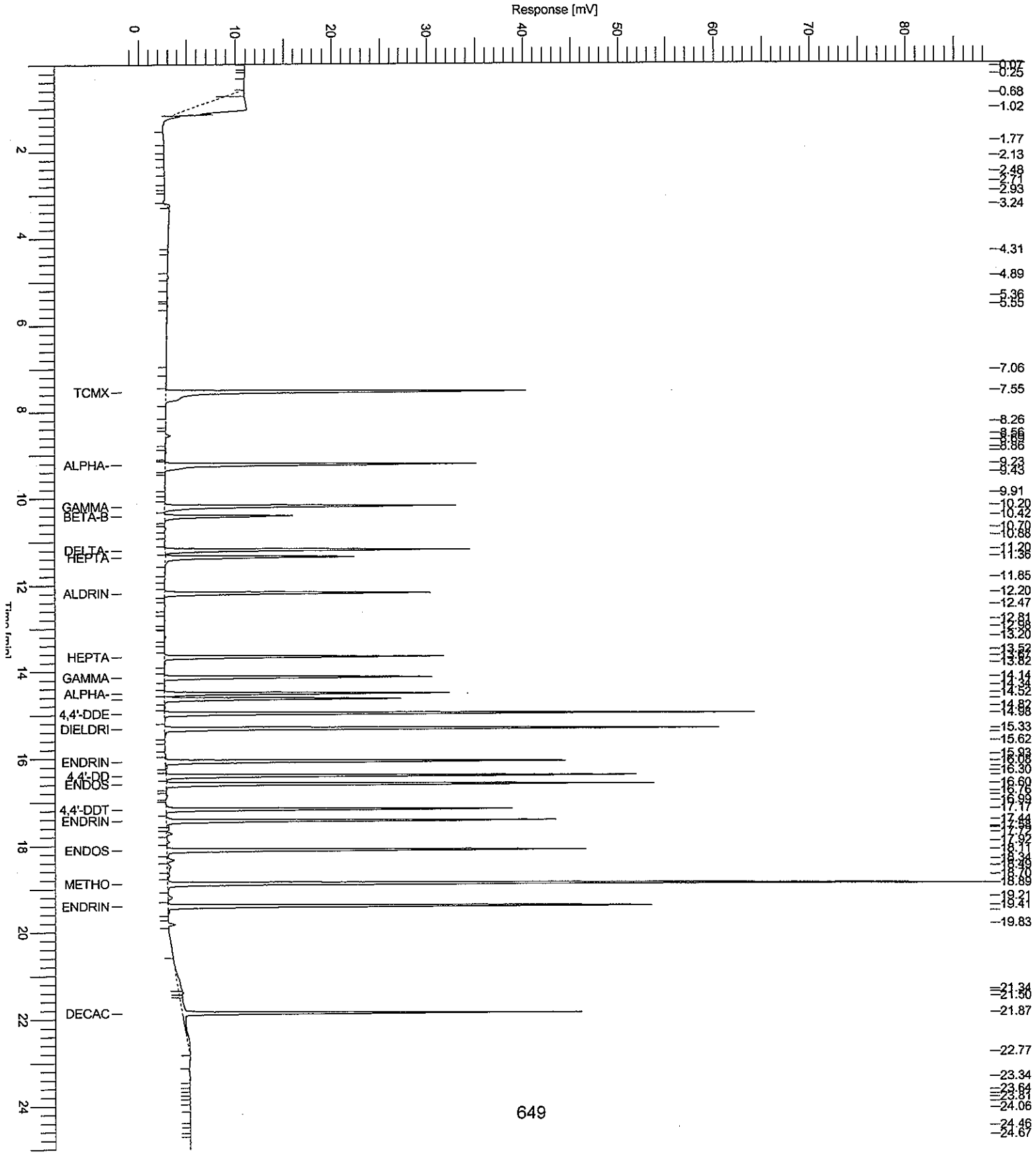
GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
leName : G:\gc23\CHb\287b021.raw
ate : 10/14/04 11:08:44 AM
lethod : Time of Injection: 10/14/04 1:15:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.04 mV High Point : 88.66 mV
lot Offset: -2.04 mV Plot Scale: 90.7 mV



GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
leName : G:\gc23\CHb\287b021
ate : 10/14/04 10:32:16 AM
ethod : gc23ins Time of Injection: 10/14/04 1:15:53 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.82 mV High Point : 88.66 mV
cale Factor: 1.0 Plot Offset: -1.82 mV Plot Scale: 90.5 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114035 Run Name: Injected: 14-OCT-2004 08:20
Filename: 287_035 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	399046.3
Endrin aldehyde	A	16406.15
Endrin ketone	A	59525

Endrin Breakdown %: **16 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	703903.4
4,4'-DDE	A	3296.16
4,4'-DDD	A	61003.77

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	371125.8
Endrin aldehyde	B	6087.5
Endrin ketone	B	19843.93

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	578302.5
4,4'-DDE	B	2795.65
4,4'-DDD	B	43721.7

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 10/14/04 10:39:00 AM
Data Acquisition Time : 10/14/04 8:20:47 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a035.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.597	138.00	0.0150	1.000	1	0.02
alpha-BHC	9.233	141396.46	9.9008	1.000	1	9.90
gamma-BHC	10.121	131723.00	10.1518	1.000	1	10.15
beta-BHC	10.387	57302.50	10.2619	1.000	1	10.26
delta-BHC	10.866	878.50	0.0679	1.000	1	0.07
Heptachlor	11.412	471.42	0.0417	1.000	1	0.04
Aldrin	12.260	567.00	0.0480	1.000	1	0.05
Heptachlor epoxide	13.835	704.50	0.0642	1.000	1	0.06
gamma-Chlordane	14.135	616.68	0.0556	1.000	1	0.06
alpha-Chlordane	14.466	268.57	0.0252	1.000	1	0.03
4,4'-DDE	14.694	3296.16	0.3128	1.000	1	0.31
Endosulfan I	14.825	484.94	0.0479	1.000	1	0.05
Dieldrin	15.423	264.90	0.0243	1.000	1	0.02
Endrin	15.999	399046.30	46.1992	1.000	1	46.20
4,4'-DDD	16.190	61003.77	7.0256	1.000	1	7.03
Endosulfan II	16.553	483.16	0.0519	1.000	1	0.05
4,4'-DDT	16.880	703903.40	84.2702	1.000	1	84.27
Endrin aldehyde	17.613	16406.15	2.1979	1.000	1	2.20
Methoxychlor	18.088	809470.98	219.8495	1.000	1	219.85
Endosulfan sulfate	18.698	567.80	0.0683	1.000	1	0.07
Endrin ketone	19.363	59525.00	5.7713	1.000	1	5.77
Decachlorobiphenyl	21.400	0.00	0.0000	1.000	1	0.00
		2388519.18	396.4512			396.45

GP
10/14/04

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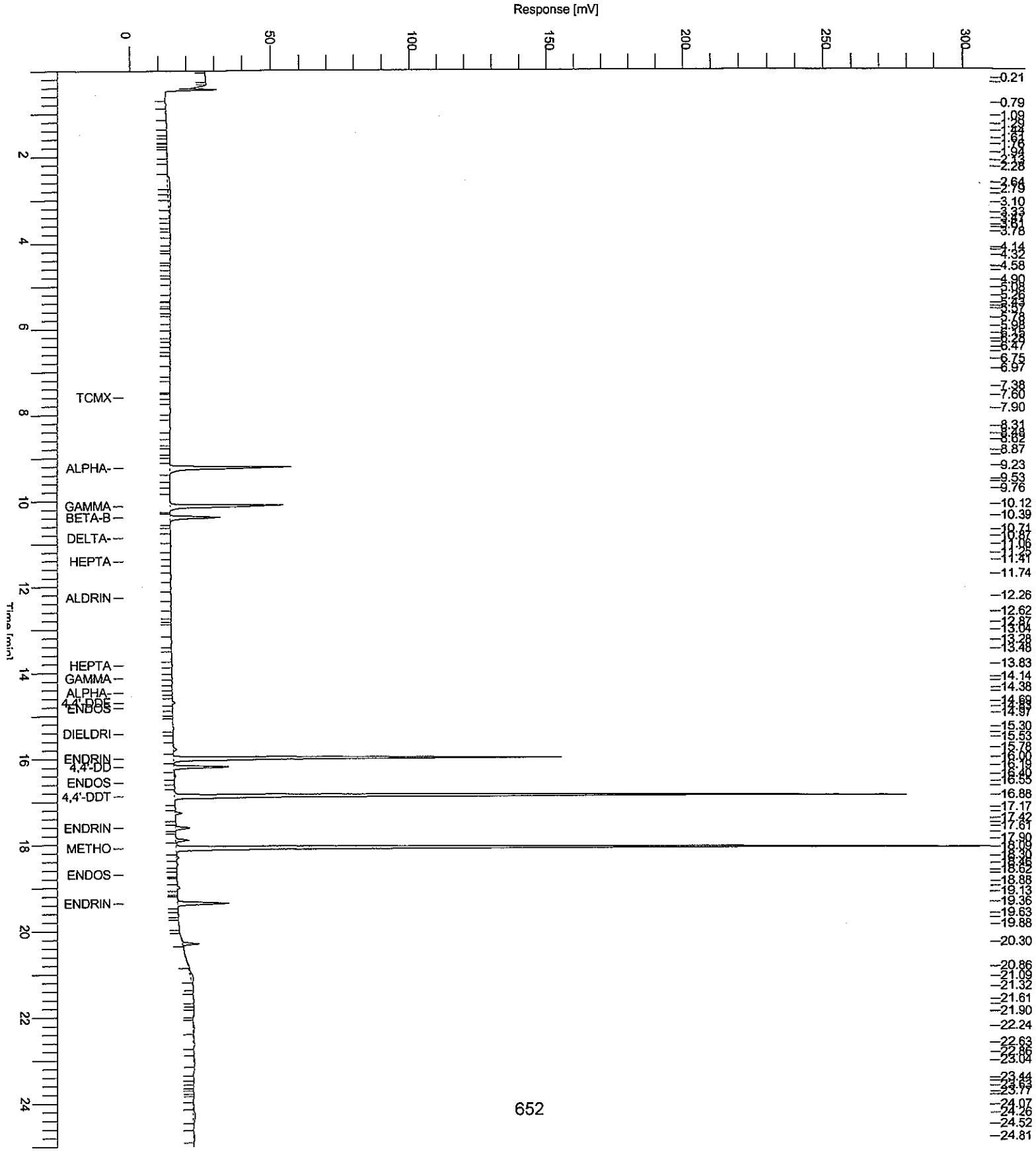
Report stored in ASCII file: G:\gc23\CHA\287a035.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : G:\gc23\CHa\287a035.raw
ate : 10/14/04 10:39:03 AM
ethod : gc23ins Time of Injection: 10/14/04 8:20:47 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.39 mV High Point : 309.99 mV
cale Factor: 1.0 Plot Offset: -2.39 mV Plot Scale: 312.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 10/14/04 10:38:40 AM
Data Acquisition Time : 10/14/04 8:20:47 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b035.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.230	105577.50	10.3667	1.000	1	10.37
gamma-BHC	10.189	100030.00	10.8667	1.000	1	10.87
beta-BHC	10.416	46042.00	11.3149	1.000	1	11.31
delta-BHC	11.194	251.48	0.0278	1.000	1	0.03
Heptachlor	11.362	0.00	0.0000	1.000	1	0.00
Aldrin	12.194	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.668	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	14.120	447.44	0.0545	1.000	1	0.05
alpha-Chlordane	14.516	136.59	0.0171	1.000	1	0.02
Endosulfan I	14.639	895.24	0.1191	1.000	1	0.12
4,4'-DDE	14.971	2795.65	0.3530	1.000	1	0.35
Dieldrin	15.313	176.00	0.0217	1.000	1	0.02
Endrin	16.067	371125.80	57.0269	1.000	1	57.03
4,4'-DDD	16.399	43721.70	6.7774	1.000	1	6.78
Endosulfan II	16.595	1934.00	0.2756	1.000	1	0.28
4,4'-DDT	17.166	578302.50	105.4698	1.000	1	105.47
Endrin aldehyde	17.432	6087.50	1.0881	1.000	1	1.09
Endosulfan sulfate	18.089	2687.35	0.4278	1.000	1	0.43
Methoxychlor	18.883	680853.66	269.2185	1.000	1	269.22
Endrin ketone	19.401	19843.93	2.6481	1.000	1	2.65
Decachlorobiphenyl	21.882	1265.41	0.2678	1.000	1	0.27
		1962173.74	476.3418			476.34

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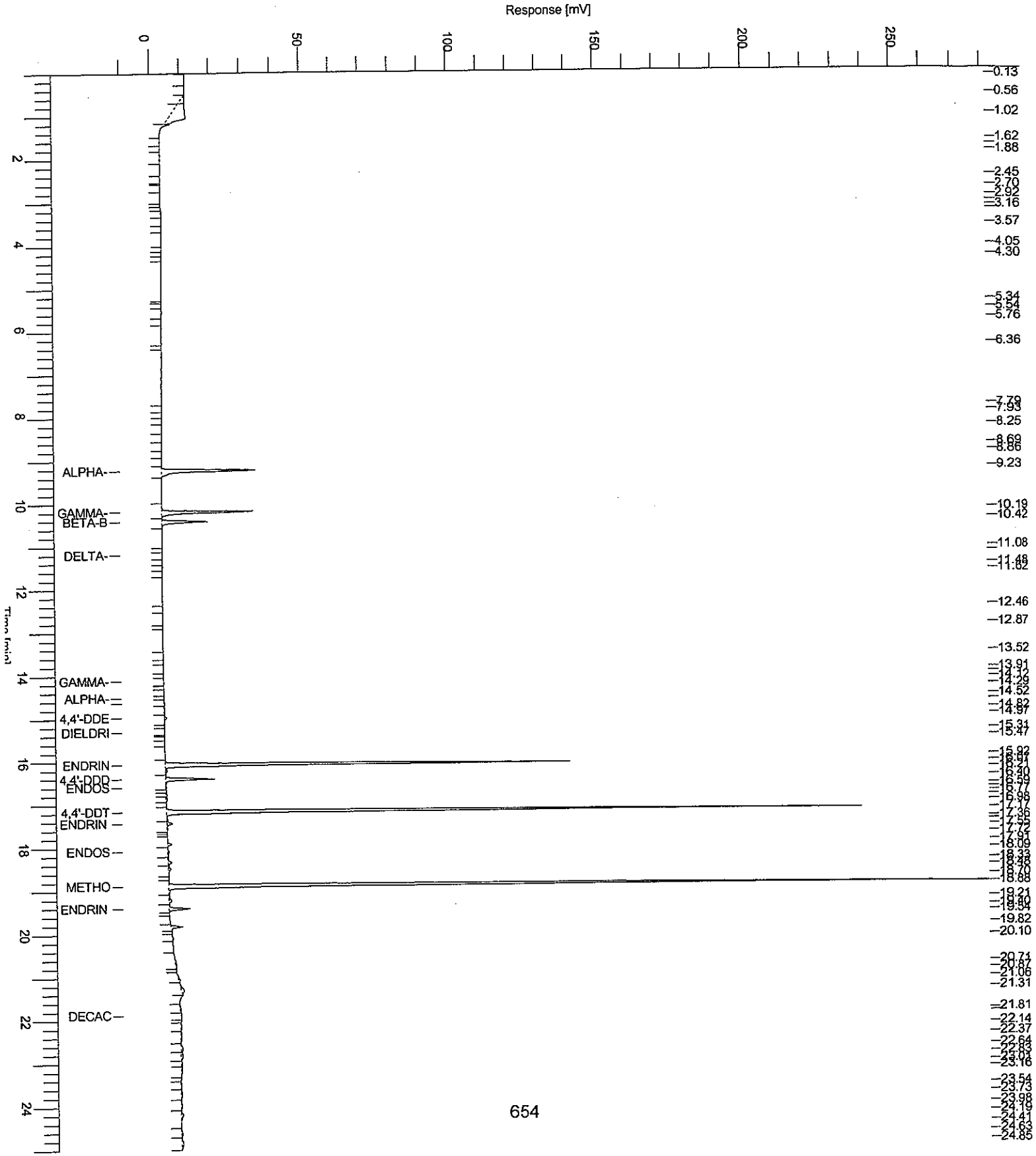
Report stored in ASCII file: G:\gc23\CHB\287b035.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : G:\gc23\CHb\287b035
ate : 10/14/04 10:38:42 AM
ethod : gc23ins Time of Injection: 10/14/04 8:20:47 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -10.53 mV High Point : 281.83 mV
cale Factor: 1.0 Plot Offset: -10.53 mV Plot Scale: 292.4 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804414114037
Calnum : 804412857001
Standards: 04WS1630

Run Name : ccv
Filename : 287_037
Caldate : 12-OCT-2004

IDF : 1.0
Injected : 14-OCT-2004 09:21
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	14100	10.00000	9.873040	pg	-1	15	
gamma-BHC	A	12975	12887	10.00000	9.931783	pg	-1	15	
beta-BHC	A	5584.0	5740.2	10.00000	10.27964	pg	3	15	
delta-BHC	A	12934	12876	10.00000	9.955303	pg	0	15	
Heptachlor	A	11292	10602	10.00000	9.388636	pg	-6	15	
Aldrin	A	11818	11920	10.00000	10.08641	pg	1	15	
Heptachlor epoxide	A	10970	11159	10.00000	10.17178	pg	2	15	
gamma-Chlordane	A	11087	11201	10.00000	10.10275	pg	1	15	
alpha-Chlordane	A	10673	10886	10.00000	10.19988	pg	2	15	
4,4'-DDE	A	10537	10570	20.00000	20.06315	pg	0	15	
Endosulfan I	A	10128	10378	10.00000	10.24673	pg	2	15	
Dieldrin	A	10899	10989	20.00000	20.16547	pg	1	15	
Endrin	A	8637.5	8332.4	20.00000	19.29357	pg	-4	15	
4,4'-DDD	A	8683.1	9241.4	20.00000	21.28598	pg	6	15	
Endosulfan II	A	9314.0	9536.6	20.00000	20.47790	pg	2	15	
4,4'-DDT	A	8352.9	7210.8	20.00000	17.26533	pg	-14	15	
Endrin aldehyde	A	7464.5	7707.4	20.00000	20.65087	pg	3	15	
Methoxychlor	A	3681.9	3327.2	100.0000	90.36612	pg	-10	15	
Endosulfan sulfate	A	8314.1	8475.5	20.00000	20.38841	pg	2	15	
Endrin ketone	A	10314	10814	20.00000	20.96881	pg	5	15	
TCMX	A	9191.2	9165.4	20.00000	19.94375	pg	0	15	
Decachlorobiphenyl	A	6490.2	6590.6	20.00000	20.30942	pg	2	15	
alpha-BHC	B	10184	10322	10.00000	10.13565	pg	1	15	
gamma-BHC	B	9205.2	9521.7	10.00000	10.34384	pg	3	15	
beta-BHC	B	4069.1	4398.6	10.00000	10.80951	pg	8	15	
delta-BHC	B	9048.9	9657.0	10.00000	10.67201	pg	7	15	
Heptachlor	B	6311.0	6563.6	10.00000	10.40033	pg	4	15	
Aldrin	B	8642.9	9148.7	10.00000	10.58521	pg	6	15	
Heptachlor epoxide	B	7991.6	8632.9	10.00000	10.80246	pg	8	15	
gamma-Chlordane	B	8205.8	8872.9	10.00000	10.81298	pg	8	15	
alpha-Chlordane	B	7973.5	8680.6	10.00000	10.88684	pg	9	15	
4,4'-DDE	B	7918.8	8574.7	20.00000	21.65632	pg	8	15	
Endosulfan I	B	7514.9	8183.3	10.00000	10.88953	pg	9	15	
Dieldrin	B	8095.3	8849.3	20.00000	21.86262	pg	9	15	
Endrin	B	6507.9	7200.9	20.00000	22.12964	pg	11	15	
4,4'-DDD	B	6451.1	7376.3	20.00000	22.86856	pg	14	15	
Endosulfan II	B	7016.4	7848.3	20.00000	22.37150	pg	12	15	
4,4'-DDT	B	5483.1	5504.4	20.00000	20.07784	pg	0	15	
Endrin aldehyde	B	5594.5	6142.5	20.00000	21.95915	pg	10	15	
Methoxychlor	B	2529.0	2655.2	100.0000	104.9896	pg	5	15	
Endosulfan sulfate	B	6281.2	6944.9	20.00000	22.11327	pg	11	15	
Endrin ketone	B	7493.8	8460.9	20.00000	22.58116	pg	13	15	
TCMX	B	6828.8	6465.1	20.00000	18.93479	pg	-5	15	
Decachlorobiphenyl	B	4724.7	5260.2	20.00000	22.26669	pg	11	15	
Average EPA 8081A	A		(count=22)				3	15	
Average EPA 8081A	B		(count=22)				8	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 37

Date : 10/14/04 11:20:22 AM
Data Acquisition Time : 10/14/04 9:21:33 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a037p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.614	183307.75	19.9437	1.000	1	19.94
alpha-BHC	9.232	141000.00	9.8730	1.000	1	9.87
gamma-BHC	10.120	128867.67	9.9318	1.000	1	9.93
beta-BHC	10.385	57401.76	10.2796	1.000	1	10.28
delta-BHC	10.866	128764.07	9.9553	1.000	1	9.96
Heptachlor	11.419	106020.00	9.3886	1.000	1	9.39
Aldrin	12.217	119198.08	10.0864	1.000	1	10.09
Heptachlor epoxide	13.816	111587.47	10.1718	1.000	1	10.17
gamma-Chlordane	14.133	112012.00	10.1027	1.000	1	10.10
alpha-Chlordane	14.468	108864.00	10.1999	1.000	1	10.20
4,4'-DDE	14.686	211400.03	20.0631	1.000	1	20.06
Endosulfan I	14.814	103780.10	10.2467	1.000	1	10.25
Dieldrin	15.418	219782.17	20.1655	1.000	1	20.17
Endrin	15.996	166648.51	19.2936	1.000	1	19.29
4,4'-DDD	16.186	184827.25	21.2860	1.000	1	21.29
Endosulfan II	16.563	190732.19	20.4779	1.000	1	20.48
4,4'-DDT	16.877	144216.12	17.2653	1.000	1	17.27
Endrin aldehyde	17.611	154147.74	20.6509	1.000	1	20.65
Methoxychlor	18.086	332721.89	90.3661	1.000	1	90.37
Endosulfan sulfate	18.686	169510.54	20.3884	1.000	1	20.39
Endrin ketone	19.364	216270.12	20.9688	1.000	1	20.97
Decachlorobiphenyl	21.398	131811.50	20.3094	1.000	1	20.31
		3422870.94	411.4147			411.41

10/14/04

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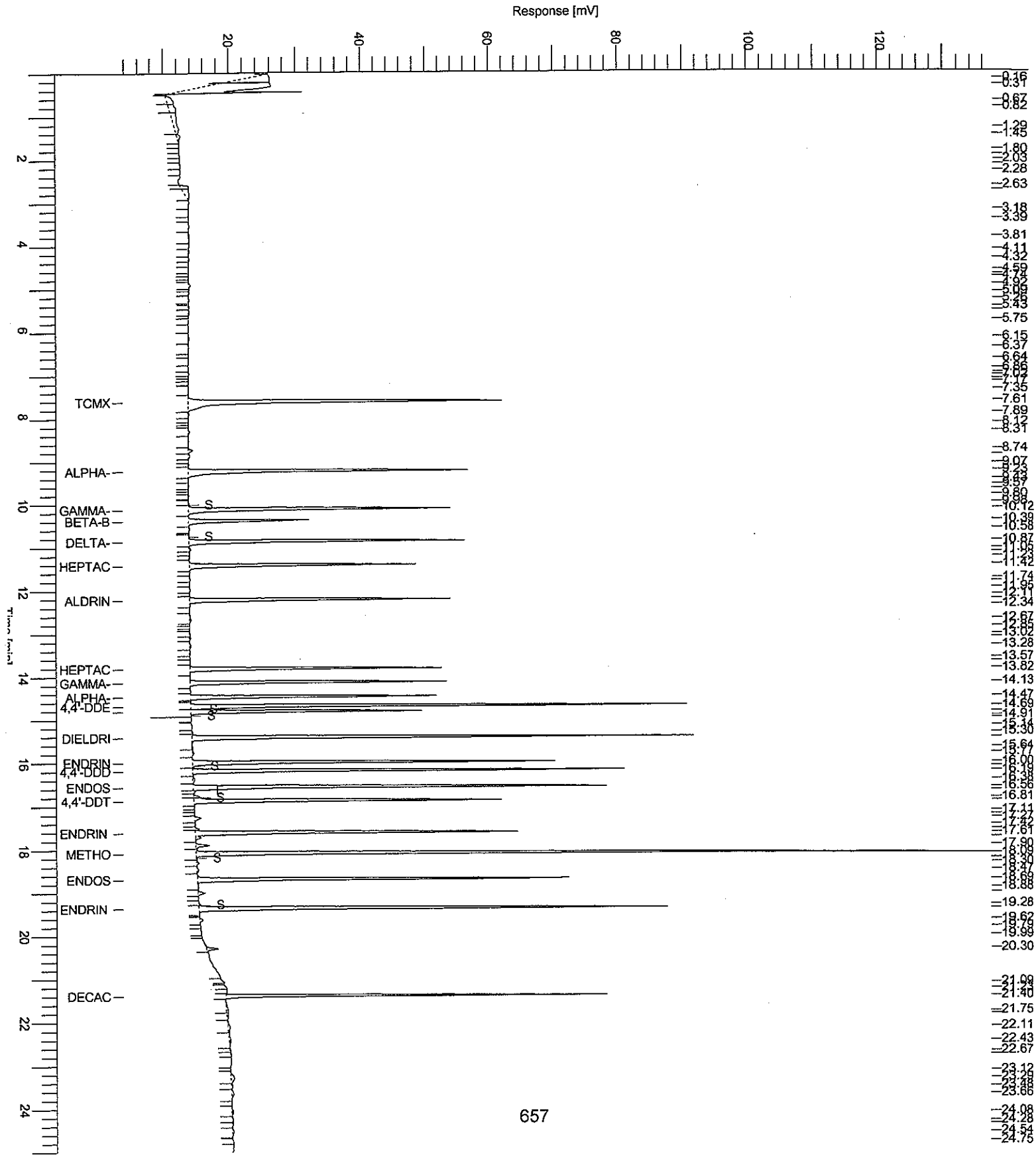
Report stored in ASCII file: G:\gc23\CHA\287a037p.TX0

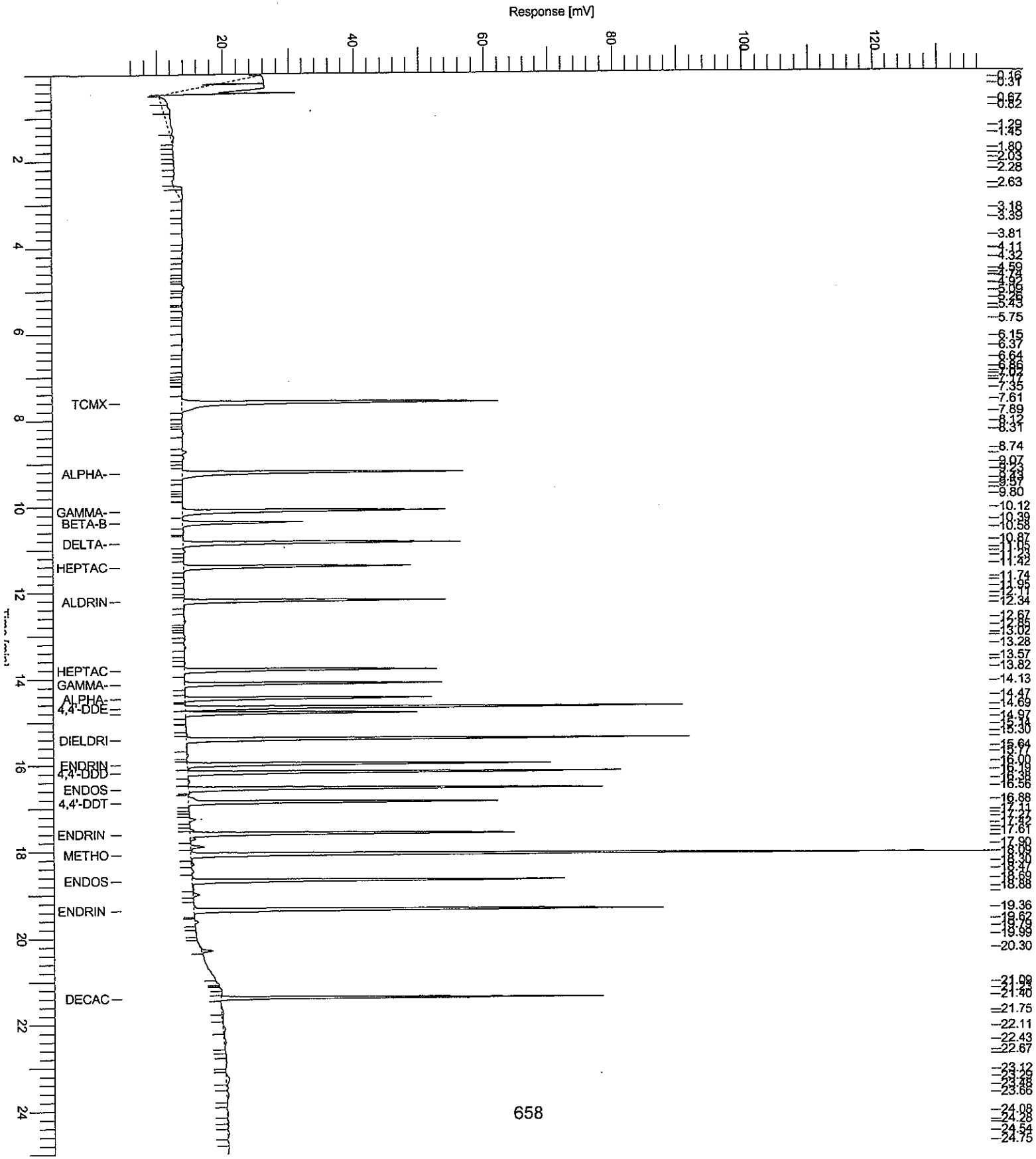
GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
ileName : G:\gc23\CHa\287a037.raw
ate : 10/14/04 11:20:28 AM
lethod : Time of Injection: 10/14/04 9:21:33 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.71 mV High Point : 137.54 mV
lot Offset: 3.71 mV Plot Scale: 133.8 mV



GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
leName : G:\gc23\CHa\287a037.raw
ate : 10/14/04 10:39:14 AM
ethod : gc23ins Time of Injection: 10/14/04 9:21:33 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 4.04 mV High Point : 137.54 mV
cale Factor: 1.0 Plot Offset: 4.04 mV Plot Scale: 133.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1630,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 37

Date : 10/14/04 11:23:58 AM
Data Acquisition Time : 10/14/04 9:21:33 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b037p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.535	129302.00	18.9348	1.000	1	18.93
alpha-BHC	9.224	103224.00	10.1356	1.000	1	10.14
gamma-BHC	10.187	95216.72	10.3438	1.000	1	10.34
beta-BHC	10.414	43985.50	10.8095	1.000	1	10.81
delta-BHC	11.189	96570.00	10.6720	1.000	1	10.67
Heptachlor	11.351	65636.00	10.4003	1.000	1	10.40
Aldrin	12.183	91487.00	10.5852	1.000	1	10.59
Heptachlor epoxide	13.661	86329.29	10.8025	1.000	1	10.80
gamma-Chlordane	14.132	88728.86	10.8130	1.000	1	10.81
alpha-Chlordane	14.503	86806.16	10.8868	1.000	1	10.89
Endosulfan I	14.632	81833.42	10.8895	1.000	1	10.89
4,4'-DDE	14.968	171493.08	21.6563	1.000	1	21.66
Dieldrin	15.317	176985.42	21.8626	1.000	1	21.86
Endrin	16.065	144017.74	22.1296	1.000	1	22.13
4,4'-DDD	16.396	147526.99	22.8686	1.000	1	22.87
Endosulfan II	16.585	156966.69	22.3715	1.000	1	22.37
4,4'-DDT	17.164	110088.96	20.0778	1.000	1	20.08
Endrin aldehyde	17.428	122849.43	21.9592	1.000	1	21.96
Endosulfan sulfate	18.101	138898.37	22.1133	1.000	1	22.11
Methoxychlor	18.881	265518.75	104.9896	1.000	1	104.99
Endrin ketone	19.399	169217.73	22.5812	1.000	1	22.58
Decachlorobiphenyl	21.864	105203.88	22.2667	1.000	1	22.27
		2677885.98	450.1495			450.15

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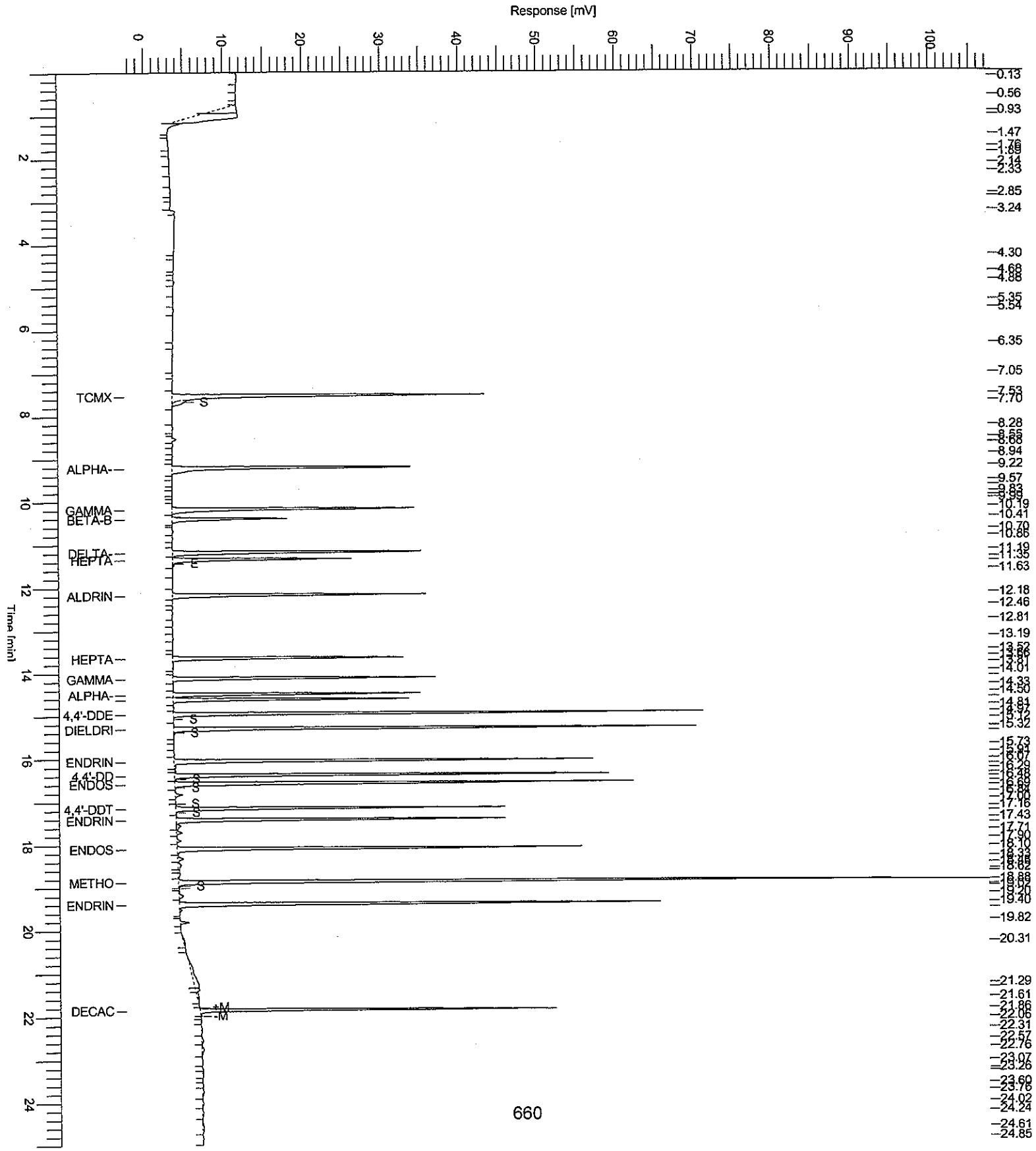
Report stored in ASCII file: G:\gc23\CHB\287b037p.TX0

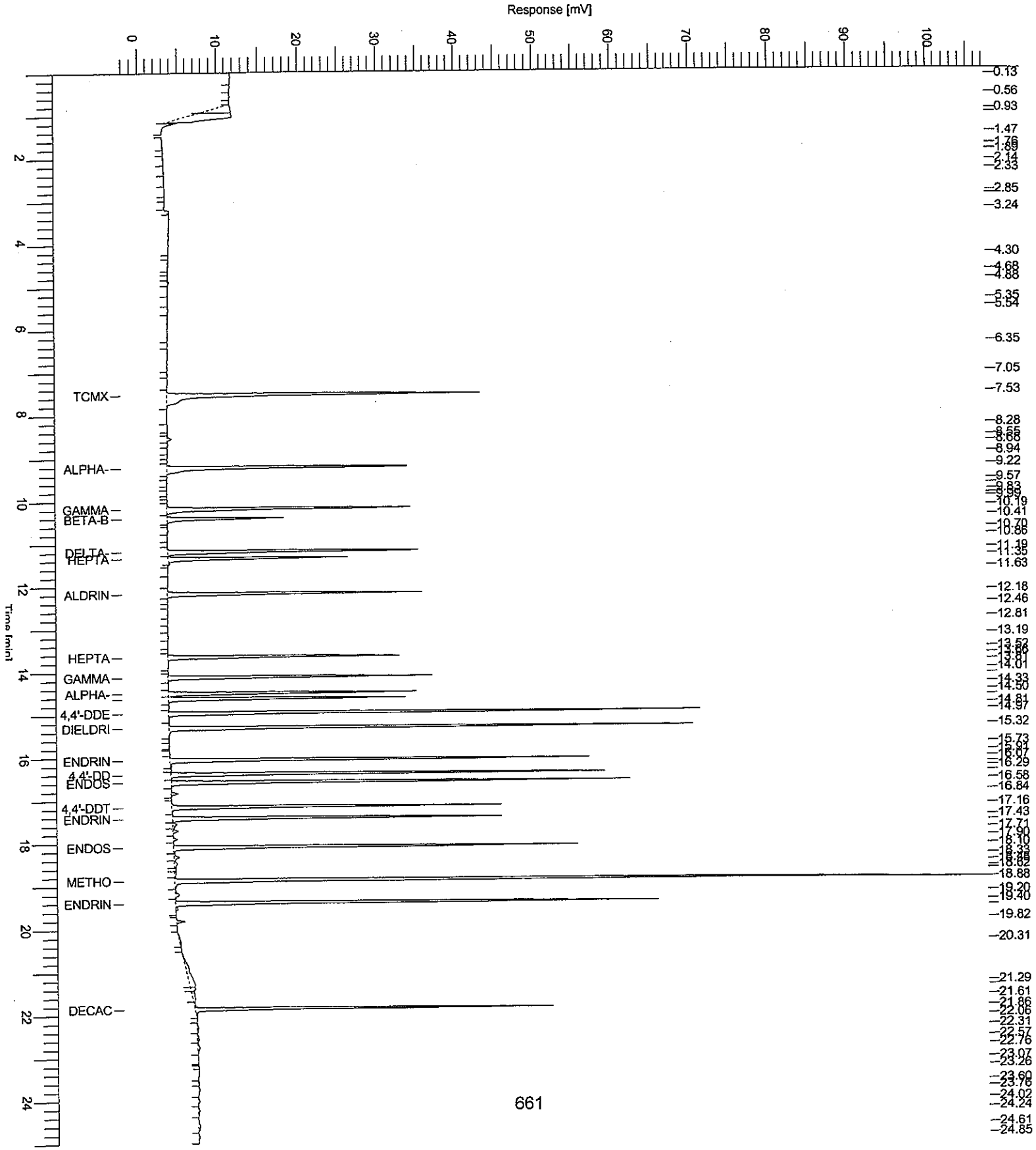
GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
leName : G:\gc23\CHb\287b037.raw
ate : 10/14/04 11:24:03 AM
ethod :
Time of Injection: 10/14/04 9:21:33 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.49 mV High Point : 107.37 mV
lot Offset: -2.49 mV Plot Scale: 109.9 mV



GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1630,pest_3 Sample #: 10/20 ug/l Page 1 of 1
leName : G:\gc23\CHb\287b037
ate : 10/14/04 10:38:52 AM
ethod : gc23ins Time of Injection: 10/14/04 9:21:33 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -2.21 mV High Point : 107.37 mV
cale Factor: 1.0 Plot Offset: -2.21 mV Plot Scale: 109.6 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804414114052 Run Name: Injected: 14-OCT-2004 19:09
Filename: 287_052 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	373797.31
Endrin aldehyde	A	50499.97
Endrin ketone	A	80896

Endrin Breakdown %: **26 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	795969
4,4'-DDE	A	3385
4,4'-DDD	A	65683.31

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	315874.09
Endrin aldehyde	B	15261.96
Endrin ketone	B	25175

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	530882.67
4,4'-DDE	B	2190.5
4,4'-DDD	B	39298.25

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

P=PEM failure

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 52

Date : 10/15/04 10:28:44 AM
Data Acquisition Time : 10/14/04 7:09:17 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a052.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.620	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.250	148635.07	10.4077	1.000	1	10.41
gamma-BHC	10.138	138712.00	10.6905	1.000	1	10.69
beta-BHC	10.403	60762.00	10.8814	1.000	1	10.88
delta-BHC	10.897	317.84	0.0246	1.000	1	0.02
Heptachlor	11.428	634.33	0.0562	1.000	1	0.06
Aldrin	12.205	74.00	0.0063	1.000	1	0.01
Heptachlor epoxide	13.845	749.05	0.0683	1.000	1	0.07
gamma-Chlordane	14.156	801.59	0.0723	1.000	1	0.07
alpha-Chlordane	14.439	292.58	0.0274	1.000	1	0.03
4,4'-DDE	14.704	3385.00	0.3213	1.000	1	0.32
Endosulfan I	14.834	375.00	0.0370	1.000	1	0.04
Dieldrin	15.433	180.19	0.0165	1.000	1	0.02
Endrin	16.013	373797.31	43.2760	1.000	1	43.28
4,4'-DDD	16.204	65683.31	7.5645	1.000	1	7.56
Endosulfan II	16.568	0.00	0.0000	1.000	1	0.00
4,4'-DDT	16.894	795969.00	95.2922	1.000	1	95.29
Endrin aldehyde	17.629	50499.97	6.7654	1.000	1	6.77
Methoxychlor	18.102	888478.43	241.3077	1.000	1	241.31
Endosulfan sulfate	18.696	0.00	0.0000	1.000	1	0.00
Endrin ketone	19.378	80896.00	7.8434	1.000	1	7.84
Decachlorobiphenyl	21.429	19248.92	2.9659	1.000	1	2.97
		2629491.60	437.6244			437.62

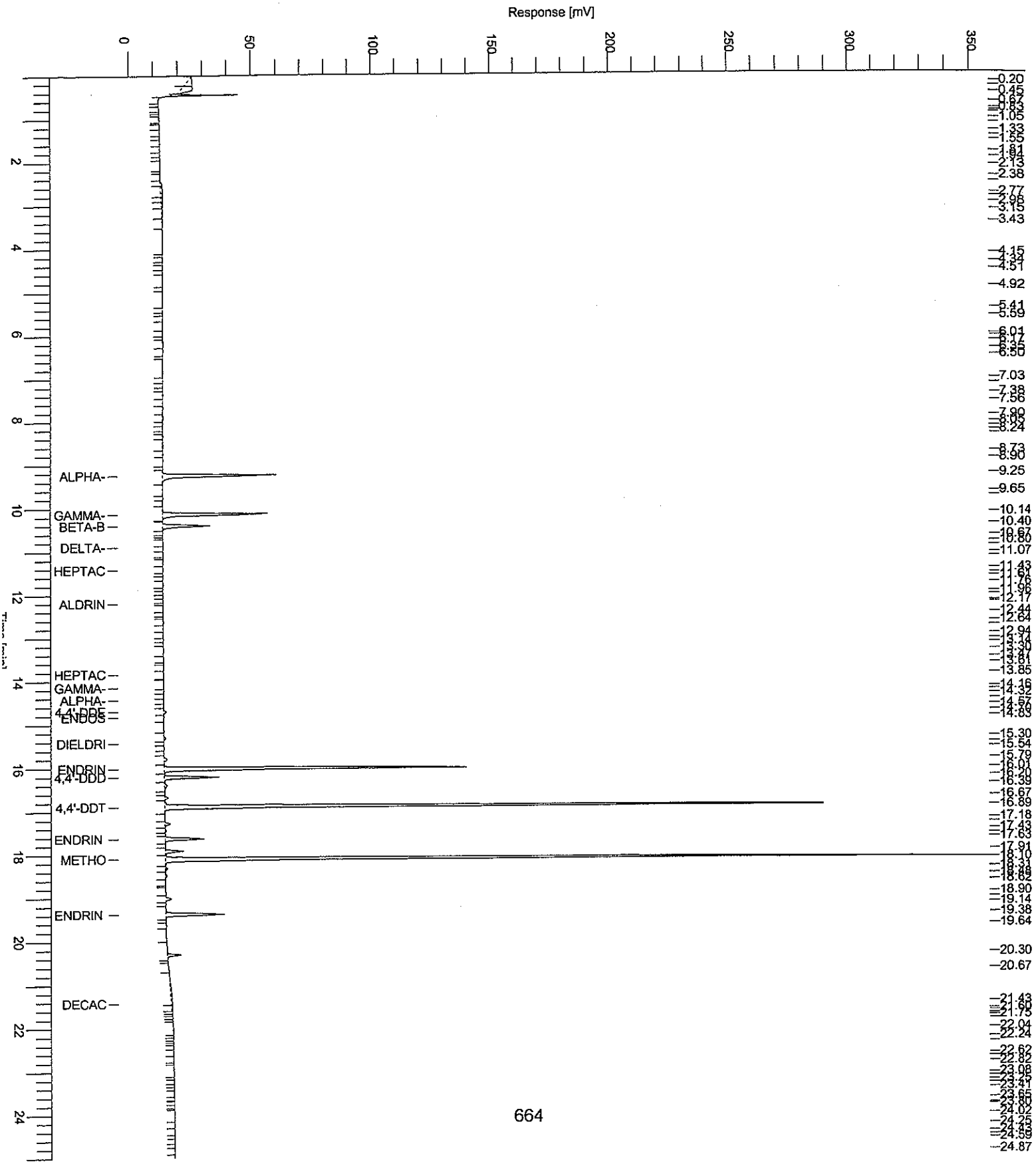
GF
10/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\287a052.TX0

GC23 Rtx-CLPesticides

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : G:\gc23\CHA\287a052.raw
ate : 10/15/04 10:28:47 AM
ethod : gc23ins Time of Injection: 10/14/04 7:09:17 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -5.02 mV High Point : 358.45 mV
cale Factor: 1.0 Plot Offset: -5.02 mV Plot Scale: 363.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 52

Date : 10/15/04 10:29:05 AM
Data Acquisition Time : 10/14/04 7:09:17 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b052.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

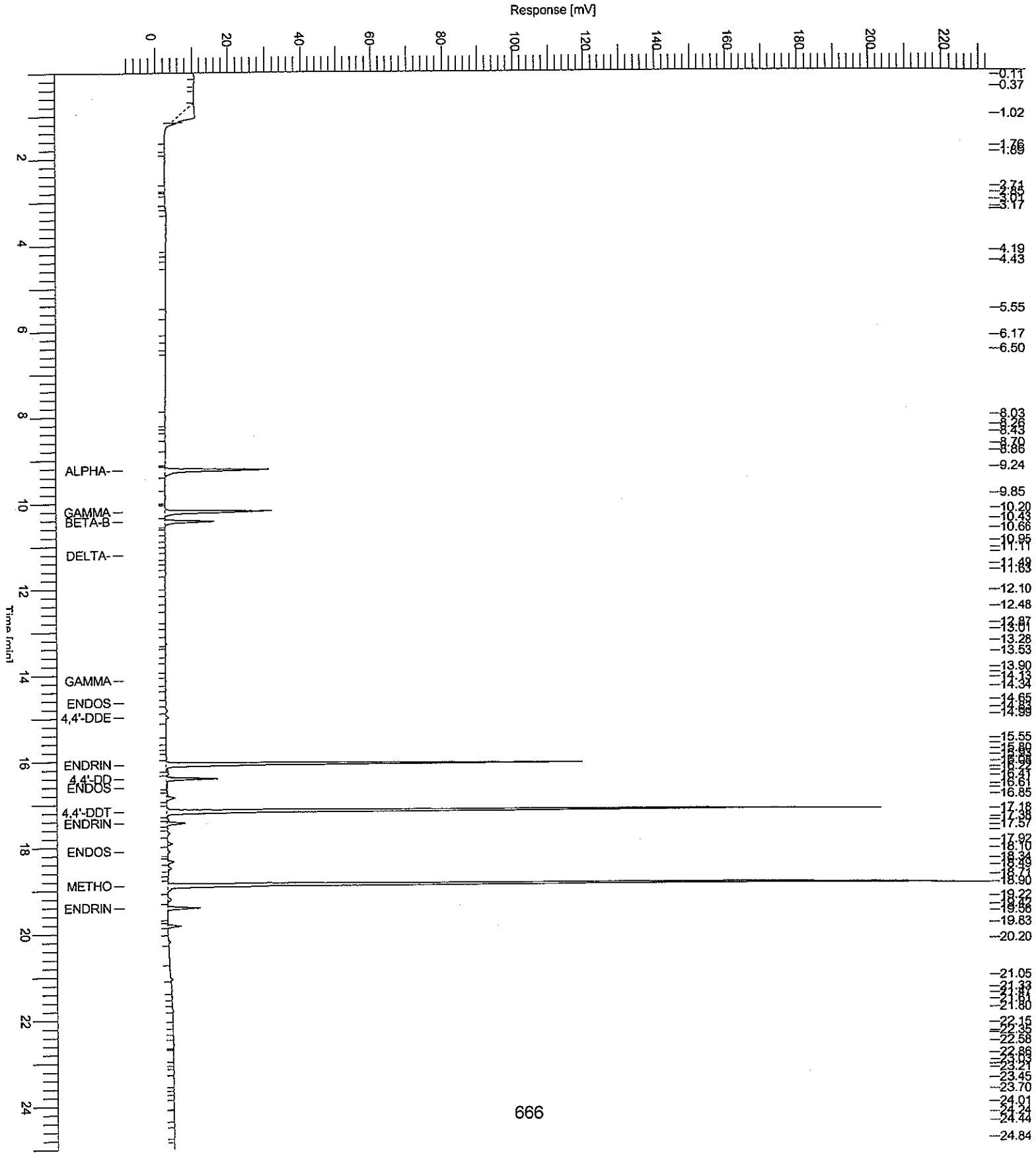
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.546	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.240	95797.00	9.4064	1.000	1	9.41
gamma-BHC	10.204	90108.00	9.7889	1.000	1	9.79
beta-BHC	10.431	40579.00	9.9724	1.000	1	9.97
delta-BHC	11.207	271.04	0.0300	1.000	1	0.03
Heptachlor	11.362	0.00	0.0000	1.000	1	0.00
Aldrin	12.194	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.668	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	14.130	850.21	0.1036	1.000	1	0.10
alpha-Chlordane	14.516	0.00	0.0000	1.000	1	0.00
Endosulfan I	14.651	455.00	0.0605	1.000	1	0.06
4,4'-DDE	14.985	2190.50	0.2766	1.000	1	0.28
Dieldrin	15.327	0.00	0.0000	1.000	1	0.00
Endrin	16.081	315874.09	48.5369	1.000	1	48.54
4,4'-DDD	16.413	39298.25	6.0917	1.000	1	6.09
Endosulfan II	16.611	1408.00	0.2007	1.000	1	0.20
4,4'-DDT	17.179	530882.67	96.8215	1.000	1	96.82
Endrin aldehyde	17.445	15261.96	2.7281	1.000	1	2.73
Endosulfan sulfate	18.103	2180.96	0.3472	1.000	1	0.35
Methoxychlor	18.896	619074.07	244.7900	1.000	1	244.79
Endrin ketone	19.415	25175.00	3.3595	1.000	1	3.36
Decachlorobiphenyl	21.867	0.00	0.0000	1.000	1	0.00
		1779405.76	432.5139			432.51

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\287b052.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
leName : G:\gc23\CHb\287b052
ate : 10/15/04 10:29:07 AM
ethod : gc23ins Time of Injection: 10/14/04 7:09:17 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -9.22 mV High Point : 232.99 mV
cale Factor: 1.0 Plot Offset: -9.22 mV Plot Scale: 242.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804414114054
Calnum : 804412857001
Standards: 04WS1632

Run Name : ccv
Filename : 287_054
Caldate : 12-OCT-2004

IDF : 1.0
Injected : 14-OCT-2004 20:11
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	14281	16016	20.00000	22.42919	pg	12	15	
gamma-BHC	A	12975	14440	20.00000	22.25758	pg	11	15	
beta-BHC	A	5584.0	6251.4	20.00000	22.39013	pg	12	15	
delta-BHC	A	12934	14579	20.00000	22.54404	pg	13	15	
Heptachlor	A	11292	11729	20.00000	20.77405	pg	4	15	
Aldrin	A	11818	13304	20.00000	22.51564	pg	13	15	
Heptachlor epoxide	A	10970	12412	20.00000	22.62751	pg	13	15	
gamma-Chlordane	A	11087	12682	20.00000	22.87621	pg	14	15	
alpha-Chlordane	A	10673	12157	20.00000	22.77982	pg	14	15	
4,4'-DDE	A	10537	12466	40.00000	47.32563	pg	**18**	15	c+ ***
Endosulfan I	A	10128	11583	20.00000	22.87232	pg	14	15	
Dieldrin	A	10899	12865	40.00000	47.21660	pg	**18**	15	c+ ***
Endrin	A	8637.5	8669.5	40.00000	40.14795	pg	0	15	
4,4'-DDD	A	8683.1	10803	40.00000	49.76404	pg	**24**	15	c+ ***
Endosulfan II	A	9314.0	10912	40.00000	46.86415	pg	**17**	15	c+ ***
4,4'-DDT	A	8352.9	8043.7	40.00000	38.51910	pg	-4	15	
Endrin aldehyde	A	7464.5	8864.2	40.00000	47.50094	pg	**19**	15	c+ ***
Methoxychlor	A	3681.9	3806.9	200.0000	206.7901	pg	3	15	
Endosulfan sulfate	A	8314.1	9605.1	40.00000	46.21141	pg	**16**	15	c+ ***
Endrin ketone	A	10314	12684	40.00000	49.19259	pg	**23**	15	c+ ***
TCMX	A	9191.2	10157	40.00000	44.20168	pg	11	15	
Decachlorobiphenyl	A	6490.2	7308.7	40.00000	45.04461	pg	13	15	
alpha-BHC	B	10184	10459	20.00000	20.53857	pg	3	15	
gamma-BHC	B	9205.2	9520.2	20.00000	20.68448	pg	3	15	
beta-BHC	B	4069.1	4175.5	20.00000	20.52248	pg	3	15	
delta-BHC	B	9048.9	9544.5	20.00000	21.09529	pg	5	15	
Heptachlor	B	6311.0	6550.3	20.00000	20.75843	pg	4	15	
Aldrin	B	8642.9	9142.0	20.00000	21.15485	pg	6	15	
Heptachlor epoxide	B	7991.6	8533.2	20.00000	21.35529	pg	7	15	
gamma-Chlordane	B	8205.8	8933.5	20.00000	21.77369	pg	9	15	
alpha-Chlordane	B	7973.5	8697.8	20.00000	21.81684	pg	9	15	
4,4'-DDE	B	7918.8	8755.9	40.00000	44.22816	pg	11	15	
Endosulfan I	B	7514.9	8155.3	20.00000	21.70433	pg	9	15	
Dieldrin	B	8095.3	8956.0	40.00000	44.25281	pg	11	15	
Endrin	B	6507.9	6994.6	40.00000	42.99105	pg	7	15	
4,4'-DDD	B	6451.1	7403.7	40.00000	45.90663	pg	15	15	
Endosulfan II	B	7016.4	7753.9	40.00000	44.20439	pg	11	15	
4,4'-DDT	B	5483.1	5598.1	40.00000	40.83861	pg	2	15	
Endrin aldehyde	B	5594.5	6005.1	40.00000	42.93579	pg	7	15	
Methoxychlor	B	2529.0	2714.6	200.0000	214.6800	pg	7	15	
Endosulfan sulfate	B	6281.2	6880.9	40.00000	43.81896	pg	10	15	
Endrin ketone	B	7493.8	8379.2	40.00000	44.72633	pg	12	15	
TCMX	B	6828.8	6878.8	40.00000	40.29262	pg	1	15	
Decachlorobiphenyl	B	4724.7	4967.5	40.00000	42.05553	pg	5	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 54

Date : 10/15/04 10:41:58 AM
Data Acquisition Time : 10/14/04 8:11:23 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\287a054p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.624	406268.23	44.2017	1.000	1	44.20
alpha-BHC	9.247	320318.37	22.4292	1.000	1	22.43
gamma-BHC	10.135	288798.35	22.2576	1.000	1	22.26
beta-BHC	10.400	125027.00	22.3901	1.000	1	22.39
delta-BHC	10.881	291589.63	22.5440	1.000	1	22.54
Heptachlor	11.433	234588.34	20.7740	1.000	1	20.77
Aldrin	12.232	266083.00	22.5156	1.000	1	22.52
Heptachlor epoxide	13.830	248230.69	22.6275	1.000	1	22.63
gamma-Chlordane	14.147	253634.99	22.8762	1.000	1	22.88
alpha-Chlordane	14.483	243130.57	22.7798	1.000	1	22.78
4,4'-DDE	14.700	498657.49	47.3256	1.000	1	47.33
Endosulfan I	14.828	231653.51	22.8723	1.000	1	22.87
Dieldrin	15.432	514610.80	47.2166	1.000	1	47.22
Endrin	16.006	346778.48	40.1479	1.000	1	40.15
4,4'-DDD	16.200	432103.73	49.7640	1.000	1	49.76
Endosulfan II	16.572	436494.91	46.8641	1.000	1	46.86
4,4'-DDT	16.886	321747.35	38.5191	1.000	1	38.52
Endrin aldehyde	17.620	354569.19	47.5009	1.000	1	47.50
Methoxychlor	18.099	761387.13	206.7901	1.000	1	206.79
Endosulfan sulfate	18.700	384204.56	46.2114	1.000	1	46.21
Endrin ketone	19.377	507367.35	49.1926	1.000	1	49.19
Decachlorobiphenyl	21.403	292347.00	45.0446	1.000	1	45.04
		7759590.67	932.8453			932.85

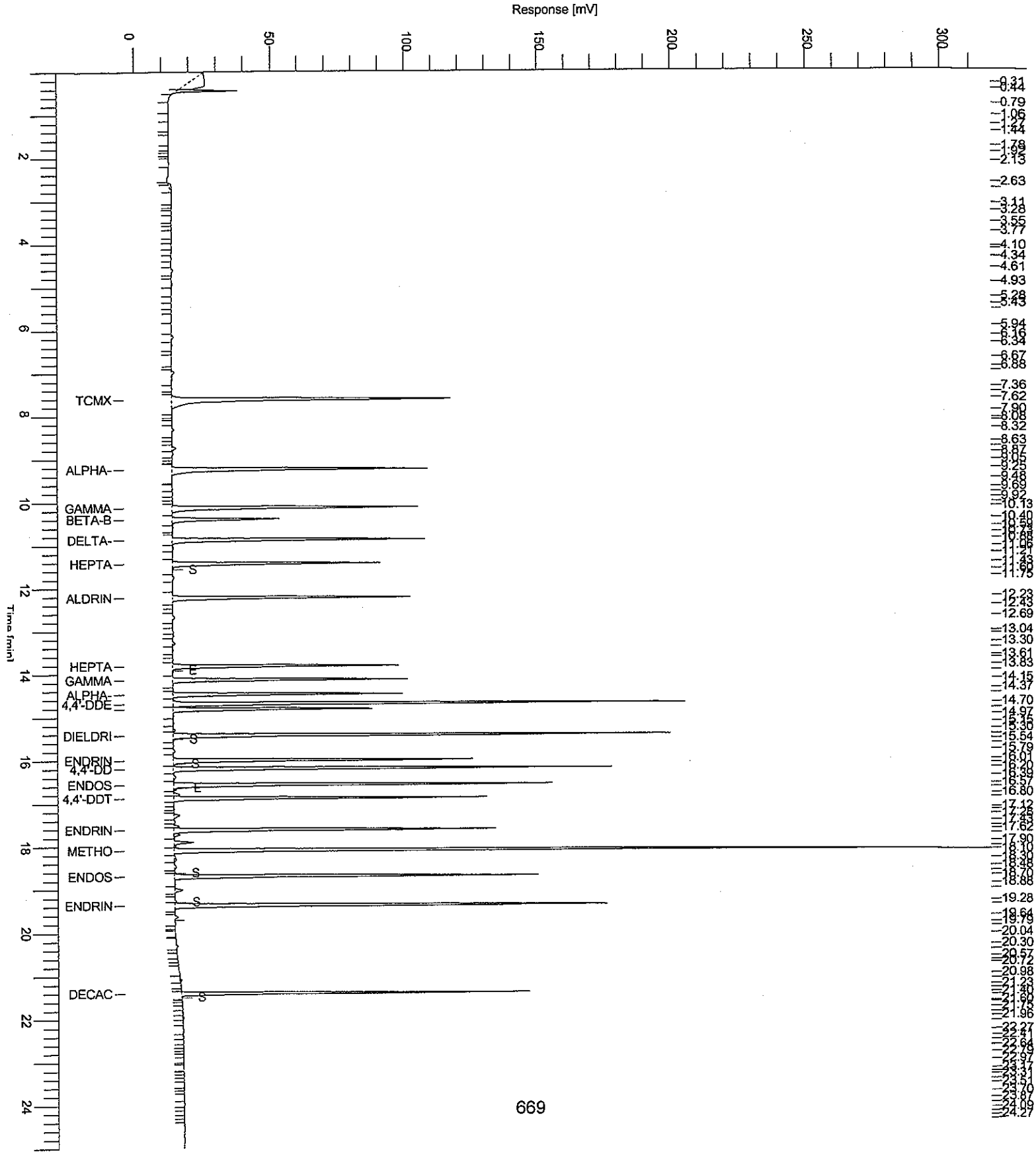
GP
10/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\287a054p.TX0

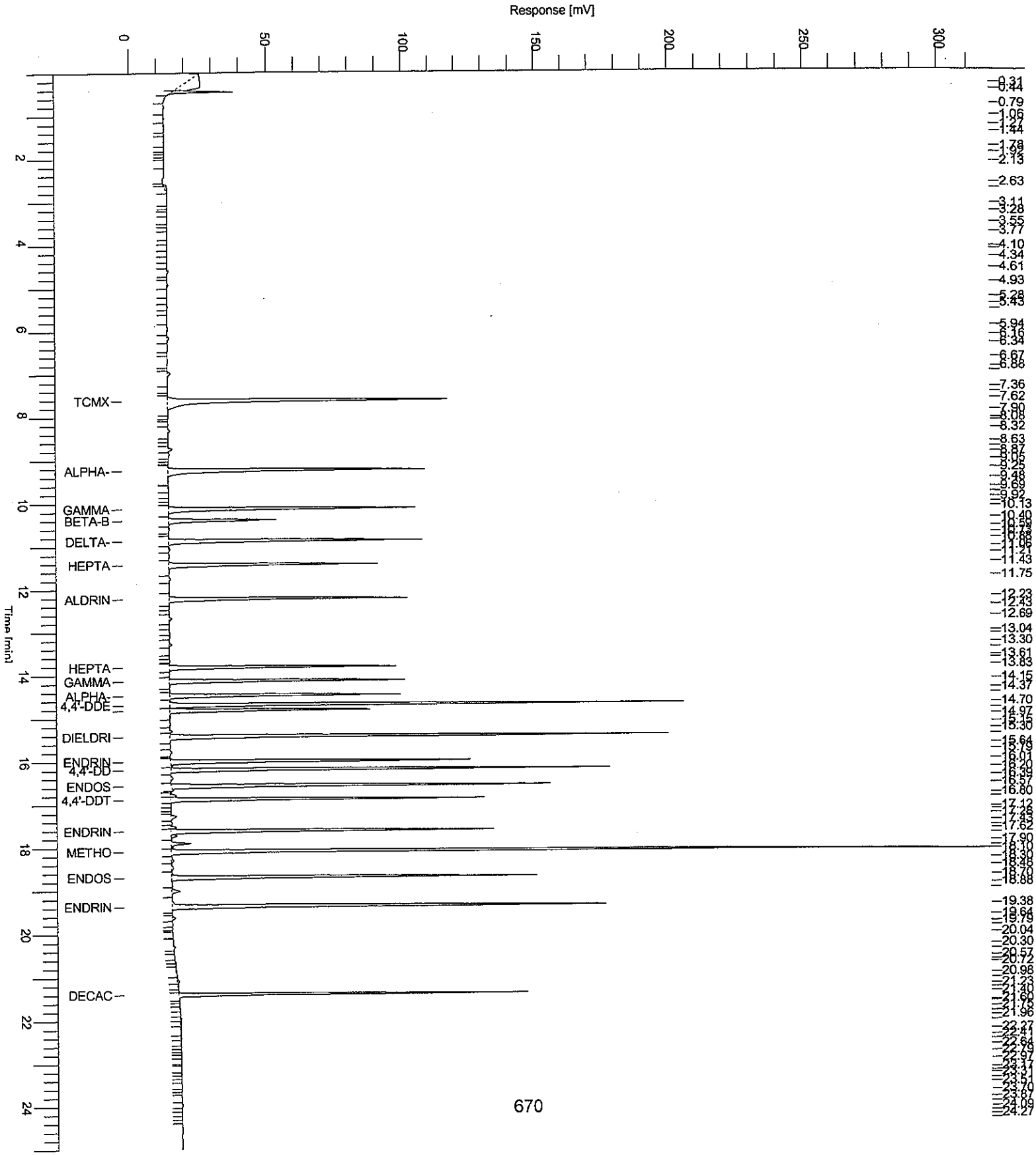
GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
leName : G:\gc23\CHA\287a054.raw
ate : 10/15/04 10:42:04 AM
ethod :
Time of Injection: 10/14/04 8:11:23 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -3.94 mV High Point : 318.52 mV
ot Offset: -3.94 mV Plot Scale: 322.5 mV



GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
leName : G:\gc23\CHA\287a054.raw
ate : 10/15/04 10:28:57 AM
ethod : gc23ins Time of Injection: 10/14/04 8:11:23 PM
lart Time : 0.00 min End Time : 25.00 min Low Point : -3.13 mV High Point : 318.52 mV
cale Factor: 1.0 Plot Offset: -3.13 mV Plot Scale: 321.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws1632,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 54

Date : 10/15/04 10:45:20 AM
Data Acquisition Time : 10/14/04 8:11:23 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\287b054p.rst
Sequence File : G:\gc23\Files\287.seq

PEST GC23 CHANNEL B METH. 8081

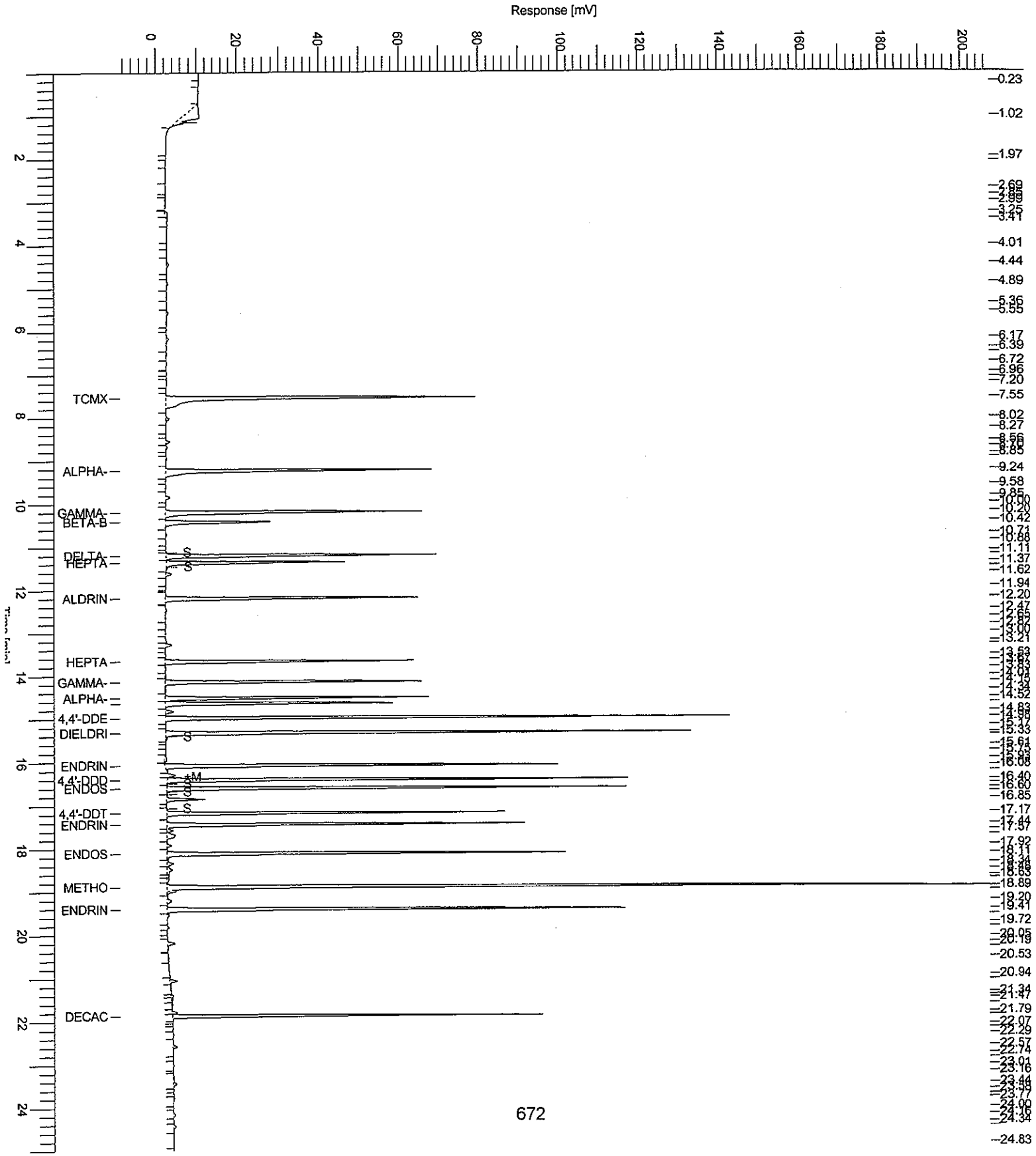
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.549	275150.51	40.2926	1.000	1	40.29
alpha-BHC	9.237	209170.00	20.5386	1.000	1	20.54
gamma-BHC	10.201	190404.00	20.6845	1.000	1	20.68
beta-BHC	10.423	83509.00	20.5225	1.000	1	20.52
delta-BHC	11.203	190889.17	21.0953	1.000	1	21.10
Heptachlor	11.365	131005.50	20.7584	1.000	1	20.76
Aldrin	12.198	182839.50	21.1549	1.000	1	21.15
Heptachlor epoxide	13.670	170663.69	21.3553	1.000	1	21.36
gamma-Chlordane	14.146	178669.93	21.7737	1.000	1	21.77
alpha-Chlordane	14.517	173956.46	21.8168	1.000	1	21.82
Endosulfan I	14.645	163105.34	21.7043	1.000	1	21.70
4,4'-DDE	14.982	350236.04	44.2282	1.000	1	44.23
Dieldrin	15.330	358241.67	44.2528	1.000	1	44.25
Endrin	16.078	279782.00	42.9911	1.000	1	42.99
4,4'-DDD	16.403	296147.47	45.9066	1.000	1	45.91
Endosulfan II	16.598	310154.34	44.2044	1.000	1	44.20
4,4'-DDT	17.171	223922.50	40.8386	1.000	1	40.84
Endrin aldehyde	17.435	240202.27	42.9358	1.000	1	42.94
Endosulfan sulfate	18.114	275236.60	43.8190	1.000	1	43.82
Methoxychlor	18.887	542925.75	214.6800	1.000	1	214.68
Endrin ketone	19.411	335168.21	44.7263	1.000	1	44.73
Decachlorobiphenyl	21.867	198700.65	42.0555	1.000	1	42.06
		5360080.60	902.3351			902.34

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\287b054p.TX0

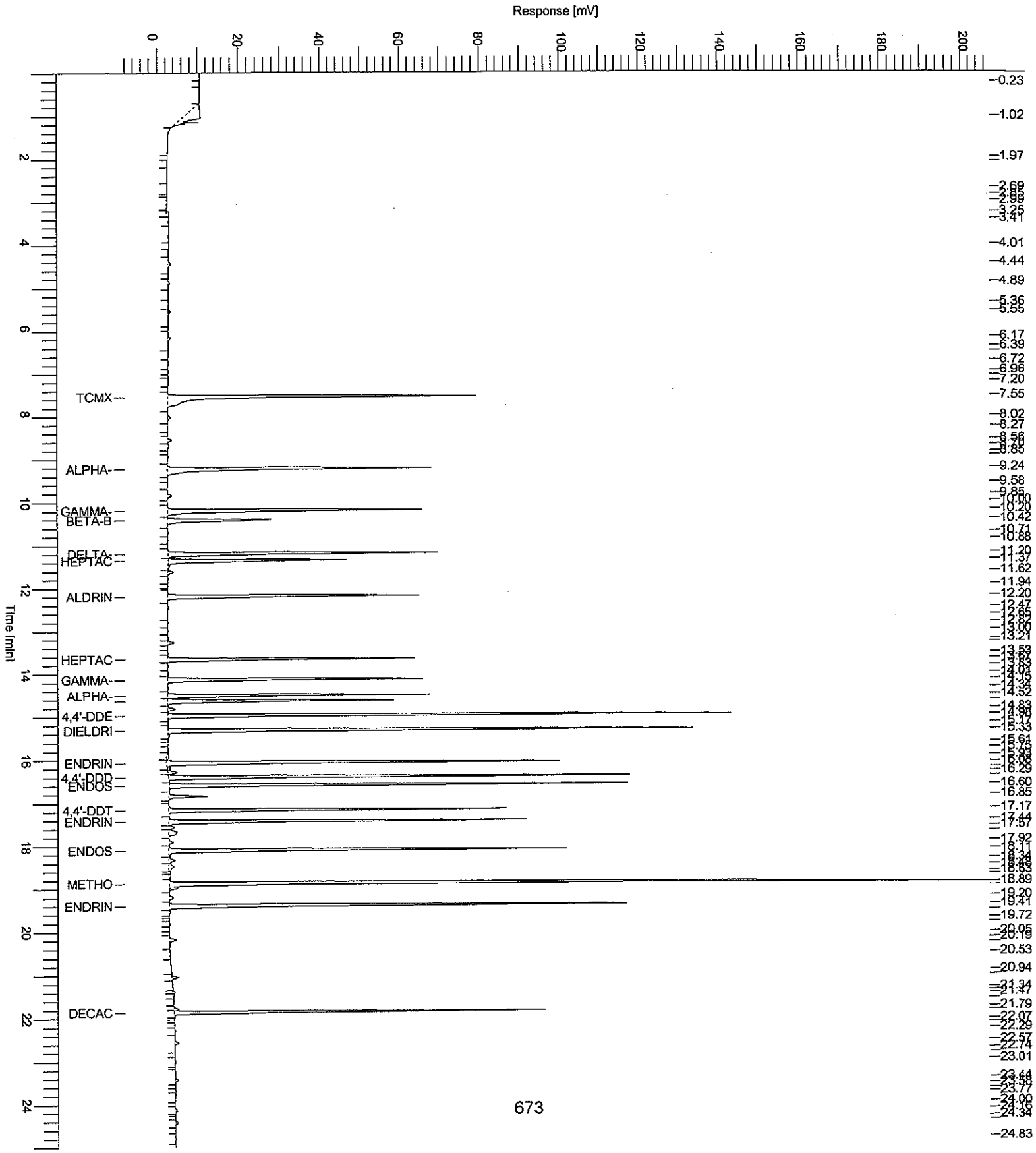
GC23 Rtx-CLPesticides2

ımple Name : x,ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
eName : G:\gc23\CHb\287b054.raw
ıte : 10/15/04 10:45:25 AM
ethod : Time of Injection: 10/14/04 8:11:23 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -8.72 mV High Point : 207.36 mV
ot Offset: -8.72 mV Plot Scale: 216.1 mV



GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws1632,pest_4 Sample #: 20/40 ug/L Page 1 of 1
ileName : G:\gc23\CHb\287b054
ate : 10/15/04 10:29:17 AM
lethod : gc23ins Time of Injection: 10/14/04 8:11:23 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -8.18 mV High Point : 207.36 mV
cale Factor: 1.0 Plot Offset: -8.18 mV Plot Scale: 215.5 mV



Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 95274
Date: 10/08/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175141-002	10.9255	18.8777	18.5163	95	5
175141-003	15.2567	22.2113	22.1431	99	1
175141-004	15.0494	22.5615	22.4550	99	1
175141-005	11.0493	19.0626	18.9082	98	2
175141-006	10.9358	18.7028	18.6223	99	1
175141-007	10.9331	18.3537	18.2635	99	1
175141-010	15.5842	22.7842	22.6887	99	1
QC267285 of 175141-010	10.9937	19.0930	18.9827	99	1
			RPD:	0.0%	2.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95274
Date Started: 07-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
175141-002			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-003			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-004			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-005			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-006			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-007			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-010			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
QC267285	SDUP	of 175141-010		Soil	MOISTURE	

10/7/04

95274

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	2A	11.0029	—	11.0028	
175141-2	A	2C	10.9255	18.8777	18.5163	
3		9A	15.2567	22.2113	22.1431	
4		103	15.0494	22.5615	22.4550	
5		B10D	11.0493	19.8626	18.9082	
6		VED	10.9358	18.7028	18.6223	
7		ZAX	10.9331	18.3537	18.2435	
10		5X	15.5842	22.7842	22.6887	
DUP. 10		BDO	10.9937	19.0930	18.9827	

OVEN TEMP: 104°C
TIME IN: 5:30 P.M.
TIME OUT: 8:25 A.M. ON: 10-8-04

Continued on Page

Read and Understood By

D. Marsh 10-7-04 677 10/8/04

Signed Date Signed Date

Percent Moisture Summary Report

Batch: 95335
Date: 10/11/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175043-001	11.1875	18.1785	12.9724	26	74
175043-002	10.9942	18.0834	12.7766	25	75
175043-004	11.0707	18.3448	12.1390	15	85
175043-005	11.0521	19.4830	13.6454	31	69
175043-007	11.2430	18.3740	12.8000	22	78
175043-010	15.6101	22.4980	16.4261	12	88
175043-011	11.0427	19.1054	12.1676	14	86
175043-016	15.2570	20.7811	16.2340	18	82
175043-017	10.9328	16.1384	11.8770	18	82
175059-047	15.3163	22.1672	21.8631	96	4
175059-049	10.9900	18.5694	17.7573	89	11
175059-064	15.5723	22.1421	21.2435	86	14
175059-065	11.0035	18.5803	17.5199	86	14
175059-071	11.0500	18.7381	18.0219	91	9
175059-072	15.5826	22.3131	21.5802	89	11
175141-001	11.1350	19.2009	19.1169	99	1
175141-009	11.0717	19.5083	19.4316	99	1
175164-001	11.0658	18.5680	18.1558	95	5
QC267536 of 175043-011	15.7997	22.8207	16.7955	14	86
			RPD:	1.6%	0.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95335
Date Started: 11-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175043-001		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-002		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-004		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-005		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-007		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-010		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-011		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-016		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-017		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175059-047		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-049		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-064		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-065		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-071		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-072		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175141-001		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-009		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175164-001		Blasland, Bouck &	Soil	MOISTURE	14-OCT-2004
QC267536	SDUP of 175043-011		Miscell.	MOISTURE	

10/10/04

95335

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	1D	15.7378	—	15.7378	
175059 - 47	A	117L	15.3163	22.1672	21.8631	
49		2	10.9900	18.5694	17.7573	
64		9D	15.5723	22.1421	21.2435	
65		12A	11.0035	18.5603	17.5199	
71		B11G	11.0500	18.7381	18.0219	
72		5X	15.5826	22.3131	21.5602	
175043 - 1		DHW	11.1875	18.1785	12.9724	COMP. A-D
2		B12D	10.9942	18.0834	12.7766	
4		B10T	11.0707	18.3448	12.1390	COMP. A-B
5		B10O	11.0521	19.4830	13.6454	
7		D	11.2430	18.3740	12.8000	
10		3L	15.6101	22.4980	16.4261	
11		B10Y	11.0427	19.1054	12.1674	
DUP 11		LOU	15.7997	22.8207	16.7955	
16		9A	15.2570	20.7811	16.2340	COMP. A-B
17		2XX	10.9328	16.1384	11.8770	COMP. A-B
175141 - 1		B11G	11.1350	19.2009	19.1169	
9		B112	11.0717	19.5083	19.4316	
175164 - 1		XXIX	11.0658	18.5680	18.1558	

OVEN TEMP: 105°C
TIME IN: 3:00 P.M.
TIME OUT: 9:57 A.M. ON: 10-11-04

Continued on Page

Read and Understood By

D. Manning 10-10-04 Signed Date

Signed Date 10/11/04

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175141
Purgeable Organics by GC/MS
Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
BB4EX100[0.5]	175141-001
DUP100704A	175141-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/17/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
VOLATILE ORGANICS BY GC/MS (EPA 8260B)
SOIL

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 10/07/04. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B) Soil:

High response was observed for acetone in the CCV analyzed 10/08/04 11:21; this analyte was not detected at or above the RL in the associated samples.

High surrogate recovery was observed for bromofluorobenzene in DUP100704A (lab # 175141-009); no target analytes were detected in the sample.

No other analytical problems were encountered.

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Dustin Sutherland
Recorder (Signature Required): [signature]

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	VOCs	SVOCs	Hg	Chlorinated Herbicides	TPH d/fc	Metals					Silica gel clean-up	Hold	Remarks
-1 BB4EX100[0.5]	10-7-04	1303		X						X		X	X	X	X	X	X	X	X					X		Analyze from bottom B.
-2 BB4EX101[0.5]		1323		X						X		X							X							
-3 BB4EX102[0.5]		1335		X						X		X							X							
-4 BB4EX103[0.5]		1355		X						X		X							X							
-5 BB4EX104[0.5]		1244		X						X		X							X							
-6 BB4EX105[0.5]		1340		X						X		X							X							
-7 BB4EX106[0.5]		1258		X						X		X							X							
-8 TB100704A		1400			X					X				X												
-9 DUP100704A		1304		X						X		X	X	X	X	X	X	X	X					X		DUP100704A
-10 BB4EX107[0.5]		1352		X						X		X	X						X							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-7-04	1410	[signature]	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 10/7/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Soil Cores in Plastic bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4. – Sample Dup100704A on COC, Label Dup100604A, ID'd by time.

REVISED

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III to Level IV		10/8/10/14
(All samples)					(8081, PCB 8260, 8270 HG, T26/ICP TEHM)		

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB4EX100[0.5]	Diln Fac:	1.000
Lab ID:	175141-001	Batch#:	95297
Matrix:	Soil	Sampled:	10/07/04
Units:	ug/Kg	Received:	10/07/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL
Freon 12	ND	10	1.4
Chloromethane	ND	10	0.9
Vinyl Chloride	ND	10	1.9
Bromomethane	ND	10	0.9
Chloroethane	ND	10	0.9
Trichlorofluoromethane	ND	5.1	0.7
Acetone	ND	20	2.9
Freon 113	ND	5.1	0.7
1,1-Dichloroethene	ND	5.1	0.7
Methylene Chloride	ND	20	1.1
Carbon Disulfide	ND	5.1	0.9
MTBE	ND	5.1	0.6
trans-1,2-Dichloroethene	ND	5.1	0.5
Vinyl Acetate	ND	51	0.7
1,1-Dichloroethane	ND	5.1	0.5
2-Butanone	ND	10	1.6
cis-1,2-Dichloroethene	ND	5.1	0.3
2,2-Dichloropropane	ND	5.1	0.9
Chloroform	ND	5.1	0.4
Bromochloromethane	ND	5.1	0.7
1,1,1-Trichloroethane	ND	5.1	0.5
1,1-Dichloropropene	ND	5.1	0.9
Carbon Tetrachloride	ND	5.1	0.5
1,2-Dichloroethane	ND	5.1	0.7
Benzene	ND	5.1	0.4
Trichloroethene	ND	5.1	1.1
1,2-Dichloropropane	ND	5.1	0.4
Bromodichloromethane	ND	5.1	0.4
Dibromomethane	ND	5.1	0.7
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	5.1	0.4
Toluene	ND	5.1	0.6
trans-1,3-Dichloropropene	ND	5.1	0.5
1,1,2-Trichloroethane	ND	5.1	0.6
2-Hexanone	ND	10	0.5
1,3-Dichloropropane	ND	5.1	0.4
Tetrachloroethene	ND	5.1	0.6
Dibromochloromethane	ND	5.1	0.4
1,2-Dibromoethane	ND	5.1	0.4
Chlorobenzene	ND	5.1	0.4
1,1,1,2-Tetrachloroethane	ND	5.1	0.7
Ethylbenzene	ND	5.1	0.5
m,p-Xylenes	ND	5.1	1.3
o-Xylene	ND	5.1	0.8
Styrene	ND	5.1	0.5
Bromoform	ND	5.1	0.4
Isopropylbenzene	ND	5.1	0.6
1,1,2,2-Tetrachloroethane	ND	5.1	0.5
1,2,3-Trichloropropane	ND	5.1	0.9
Propylbenzene	ND	5.1	0.5
Bromobenzene	ND	5.1	0.4
1,3,5-Trimethylbenzene	ND	5.1	1.2

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB4EX100[0.5]	Diln Fac:	1.000
Lab ID:	175141-001	Batch#:	95297
Matrix:	Soil	Sampled:	10/07/04
Units:	ug/Kg	Received:	10/07/04
Basis:	dry	Analyzed:	10/08/04

Analyte	Result	RL	MDL
2-Chlorotoluene	ND	5.1	0.6
4-Chlorotoluene	ND	5.1	0.6
tert-Butylbenzene	ND	5.1	0.6
1,2,4-Trimethylbenzene	ND	5.1	1.8
sec-Butylbenzene	ND	5.1	0.8
para-Isopropyl Toluene	ND	5.1	1.2
1,3-Dichlorobenzene	ND	5.1	0.3
1,4-Dichlorobenzene	ND	5.1	0.6
n-Butylbenzene	ND	5.1	2.2
1,2-Dichlorobenzene	ND	5.1	0.5
1,2-Dibromo-3-Chloropropane	ND	5.1	0.6
1,2,4-Trichlorobenzene	ND	5.1	2.7
Hexachlorobutadiene	ND	5.1	0.9
Naphthalene	ND	5.1	2.5
1,2,3-Trichlorobenzene	ND	5.1	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	59-113
1,2-Dichloroethane-d4	106	70-121
Toluene-d8	97	84-138
Bromofluorobenzene	111	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	DUP100704A	Diln Fac:	0.9434
Lab ID:	175141-009	Batch#:	95297
Matrix:	Soil	Sampled:	10/07/04
Units:	ug/Kg	Received:	10/07/04
Basis:	dry	Analyzed:	10/08/04

Moisture: 1%

Analyte	Result	RL	MDL
Freon 12	ND	9.5	1.3
Chloromethane	ND	9.5	0.9
Vinyl Chloride	ND	9.5	1.8
Bromomethane	ND	9.5	0.8
Chloroethane	ND	9.5	0.8
Trichlorofluoromethane	ND	4.8	0.7
Acetone	ND	19	2.7
Freon 113	ND	4.8	0.7
1,1-Dichloroethene	ND	4.8	0.7
Methylene Chloride	ND	19	1.0
Carbon Disulfide	ND	4.8	0.9
MTBE	ND	4.8	0.6
trans-1,2-Dichloroethene	ND	4.8	0.5
Vinyl Acetate	ND	48	0.6
1,1-Dichloroethane	ND	4.8	0.4
2-Butanone	ND	9.5	1.5
cis-1,2-Dichloroethene	ND	4.8	0.3
2,2-Dichloropropane	ND	4.8	0.8
Chloroform	ND	4.8	0.4
Bromochloromethane	ND	4.8	0.7
1,1,1-Trichloroethane	ND	4.8	0.5
1,1-Dichloropropene	ND	4.8	0.9
Carbon Tetrachloride	ND	4.8	0.4
1,2-Dichloroethane	ND	4.8	0.6
Benzene	ND	4.8	0.4
Trichloroethene	ND	4.8	1.1
1,2-Dichloropropane	ND	4.8	0.4
Bromodichloromethane	ND	4.8	0.4
Dibromomethane	ND	4.8	0.7
4-Methyl-2-Pentanone	ND	9.5	0.7
cis-1,3-Dichloropropene	ND	4.8	0.4
Toluene	ND	4.8	0.6
trans-1,3-Dichloropropene	ND	4.8	0.5
1,1,2-Trichloroethane	ND	4.8	0.5
2-Hexanone	ND	9.5	0.5
1,3-Dichloropropane	ND	4.8	0.4
Tetrachloroethene	ND	4.8	0.5
Dibromochloromethane	ND	4.8	0.4
1,2-Dibromoethane	ND	4.8	0.3
Chlorobenzene	ND	4.8	0.4
1,1,1,2-Tetrachloroethane	ND	4.8	0.6
Ethylbenzene	ND	4.8	0.5
m,p-Xylenes	ND	4.8	1.2
o-Xylene	ND	4.8	0.7
Styrene	ND	4.8	0.4
Bromoform	ND	4.8	0.4
Isopropylbenzene	ND	4.8	0.6
1,1,2,2-Tetrachloroethane	ND	4.8	0.5
1,2,3-Trichloropropane	ND	4.8	0.9
Propylbenzene	ND	4.8	0.5
Bromobenzene	ND	4.8	0.4

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	DUP100704A	Diln Fac:	0.9434
Lab ID:	175141-009	Batch#:	95297
Matrix:	Soil	Sampled:	10/07/04
Units:	ug/Kg	Received:	10/07/04
Basis:	dry	Analyzed:	10/08/04

Analyte	Result	RL	MDL
1,3,5-Trimethylbenzene	ND	4.8	1.2
2-Chlorotoluene	ND	4.8	0.6
4-Chlorotoluene	ND	4.8	0.6
tert-Butylbenzene	ND	4.8	0.5
1,2,4-Trimethylbenzene	ND	4.8	1.7
sec-Butylbenzene	ND	4.8	0.8
para-Isopropyl Toluene	ND	4.8	1.2
1,3-Dichlorobenzene	ND	4.8	0.3
1,4-Dichlorobenzene	ND	4.8	0.5
n-Butylbenzene	ND	4.8	2.0
1,2-Dichlorobenzene	ND	4.8	0.5
1,2-Dibromo-3-Chloropropane	ND	4.8	0.5
1,2,4-Trichlorobenzene	ND	4.8	2.6
Hexachlorobutadiene	ND	4.8	0.8
Naphthalene	ND	4.8	2.4
1,2,3-Trichlorobenzene	ND	4.8	2.4

Surrogate	%REC	Limits
Dibromofluoromethane	95	59-113
1,2-Dichloroethane-d4	104	70-121
Toluene-d8	93	84-138
Bromofluorobenzene	114 *	59-113

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC267389	Diln Fac:	1.000
Matrix:	Soil	Batch#:	95297
Units:	ug/Kg	Analyzed:	10/08/04

Analyte	Result	RL	MDL
Freon 12	ND	10	1.4
Chloromethane	ND	10	0.9
Vinyl Chloride	ND	10	1.9
Bromomethane	ND	10	0.9
Chloroethane	ND	10	0.9
Trichlorofluoromethane	ND	5.0	0.7
Acetone	ND	20	2.9
Freon 113	ND	5.0	0.7
1,1-Dichloroethene	ND	5.0	0.7
Methylene Chloride	ND	20	1.1
Carbon Disulfide	ND	5.0	0.9
MTBE	ND	5.0	0.6
trans-1,2-Dichloroethene	ND	5.0	0.5
Vinyl Acetate	ND	50	0.7
1,1-Dichloroethane	ND	5.0	0.5
2-Butanone	ND	10	1.6
cis-1,2-Dichloroethene	ND	5.0	0.3
2,2-Dichloropropane	ND	5.0	0.9
Chloroform	ND	5.0	0.4
Bromochloromethane	ND	5.0	0.7
1,1,1-Trichloroethane	ND	5.0	0.5
1,1-Dichloropropene	ND	5.0	0.9
Carbon Tetrachloride	ND	5.0	0.5
1,2-Dichloroethane	ND	5.0	0.7
Benzene	ND	5.0	0.4
Trichloroethene	ND	5.0	1.1
1,2-Dichloropropane	ND	5.0	0.4
Bromodichloromethane	ND	5.0	0.4
Dibromomethane	ND	5.0	0.7
4-Methyl-2-Pentanone	ND	10	0.7
cis-1,3-Dichloropropene	ND	5.0	0.4
Toluene	ND	5.0	0.6
trans-1,3-Dichloropropene	ND	5.0	0.5
1,1,2-Trichloroethane	ND	5.0	0.6
2-Hexanone	ND	10	0.5
1,3-Dichloropropane	ND	5.0	0.4
Tetrachloroethene	ND	5.0	0.6
Dibromochloromethane	ND	5.0	0.4
1,2-Dibromoethane	ND	5.0	0.4
Chlorobenzene	ND	5.0	0.4
1,1,1,2-Tetrachloroethane	ND	5.0	0.7
Ethylbenzene	ND	5.0	0.5
m,p-Xylenes	ND	5.0	1.3
o-Xylene	ND	5.0	0.8
Styrene	ND	5.0	0.5
Bromoform	ND	5.0	0.4
Isopropylbenzene	ND	5.0	0.6
1,1,2,2-Tetrachloroethane	ND	5.0	0.5
1,2,3-Trichloropropane	ND	5.0	0.9
Propylbenzene	ND	5.0	0.5
Bromobenzene	ND	5.0	0.4
1,3,5-Trimethylbenzene	ND	5.0	1.2
2-Chlorotoluene	ND	5.0	0.6
4-Chlorotoluene	ND	5.0	0.6

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC267389	Diln Fac:	1.000
Matrix:	Soil	Batch#:	95297
Units:	ug/Kg	Analyzed:	10/08/04

Analyte	Result	RL	MDL
tert-Butylbenzene	ND	5.0	0.6
1,2,4-Trimethylbenzene	ND	5.0	1.8
sec-Butylbenzene	ND	5.0	0.8
para-Isopropyl Toluene	ND	5.0	1.2
1,3-Dichlorobenzene	ND	5.0	0.3
1,4-Dichlorobenzene	ND	5.0	0.6
n-Butylbenzene	ND	5.0	2.2
1,2-Dichlorobenzene	ND	5.0	0.5
1,2-Dibromo-3-Chloropropane	ND	5.0	0.6
1,2,4-Trichlorobenzene	ND	5.0	2.7
Hexachlorobutadiene	ND	5.0	0.9
Naphthalene	ND	5.0	2.5
1,2,3-Trichlorobenzene	ND	5.0	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	59-113
1,2-Dichloroethane-d4	98	70-121
Toluene-d8	96	84-138
Bromofluorobenzene	110	59-113

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC267388	Diln Fac:	1.000
Matrix:	Soil	Batch#:	95297
Units:	ug/Kg	Analyzed:	10/08/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	55.57	111	65-135
Benzene	50.00	55.22	110	65-135
Trichloroethene	50.00	54.67	109	65-135
Toluene	50.00	55.64	111	65-135
Chlorobenzene	50.00	52.42	105	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	97	59-113
1,2-Dichloroethane-d4	96	70-121
Toluene-d8	101	84-138
Bromofluorobenzene	106	59-113

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB4EX100[0.5]	Diln Fac:	1.000
MSS Lab ID:	175141-001	Batch#:	95297
Matrix:	Soil	Sampled:	10/07/04
Units:	ug/Kg	Received:	10/07/04
Basis:	dry	Analyzed:	10/08/04

Type: MS Moisture: 1%
Lab ID: QC267390

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.7172	50.51	52.58	104	65-135
Benzene	<0.4343	50.51	51.86	103	65-135
Trichloroethene	<1.111	50.51	51.62	102	65-135
Toluene	<0.5960	50.51	51.67	102	65-135
Chlorobenzene	<0.3939	50.51	48.23	96	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-113
1,2-Dichloroethane-d4	105	70-121
Toluene-d8	97	84-138
Bromofluorobenzene	102	59-113

Type: MSD Moisture: 1%
Lab ID: QC267391

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.51	51.92	103	65-135	1	35
Benzene	50.51	50.83	101	65-135	2	35
Trichloroethene	50.51	50.65	100	65-135	2	35
Toluene	50.51	51.02	101	65-135	1	35
Chlorobenzene	50.51	46.10	91	65-135	5	35

Surrogate	%REC	Limits
Dibromofluoromethane	98	59-113
1,2-Dichloroethane-d4	105	70-121
Toluene-d8	100	84-138
Bromofluorobenzene	104	59-113

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092304.b\CIN09.D

MSVOA03 8260 STCAL TUNE

Date : 23-SEP-2004 16:38

Instrument: MSVOA03.i

Client ID: bfb tune std

Sample Info: BFB,04WS1238

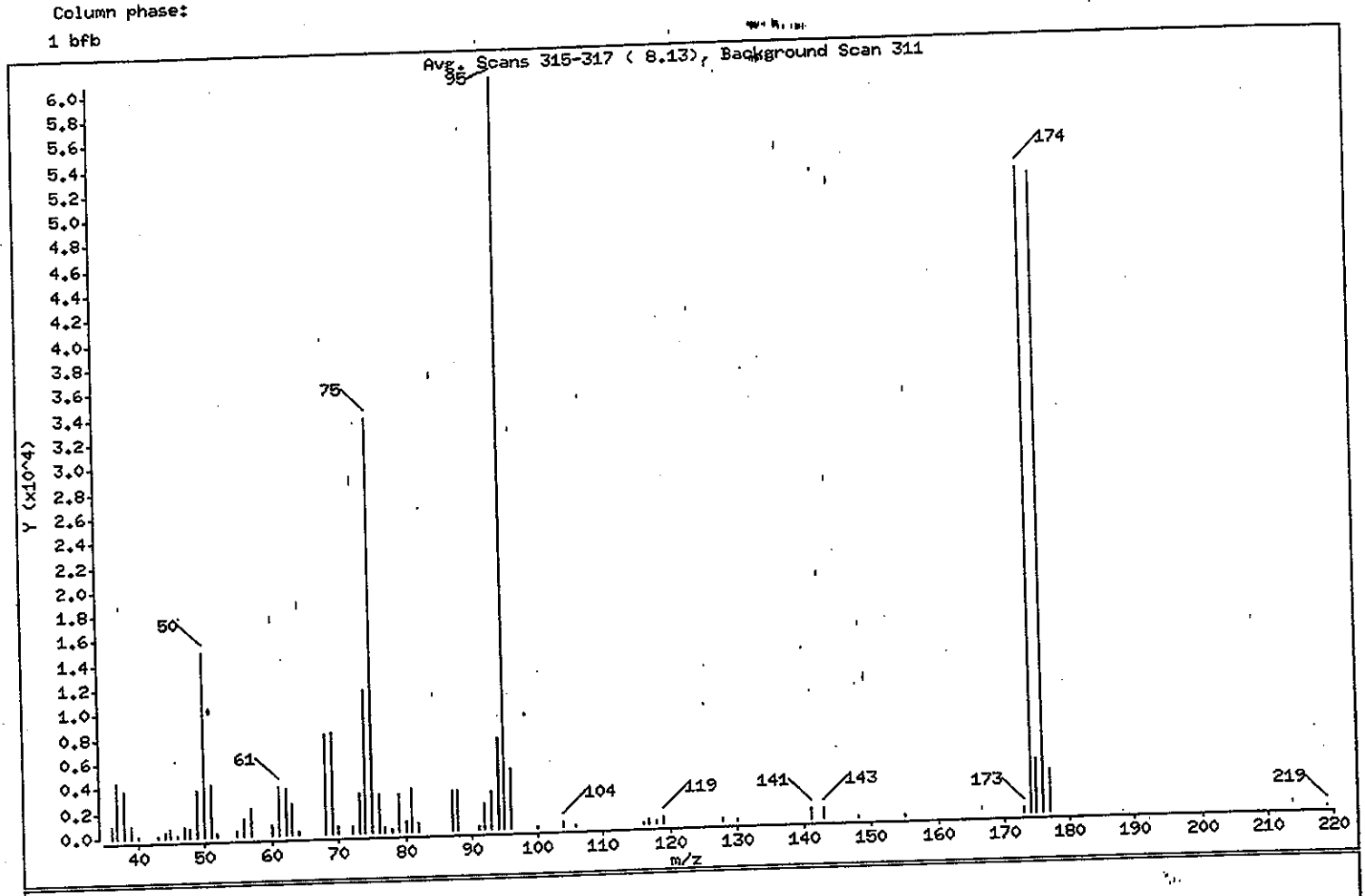
Operator: tw

Volume Injected (uL): 1.0

Column diameter: 2.00

Column phase:

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.60
75	30.00 - 60.00% of mass 95	55.32
96	5.00 - 9.00% of mass 95	7.94
173	Less than 2.00% of mass 174	0.64 (0.74)
174	50.00 - 99.99% of mass 95	85.95
175	5.00 - 9.00% of mass 174	7.20 (8.38)
176	95.01 - 100.99% of mass 174	85.26 (99.20)
177	5.00 - 9.00% of mass 176	5.77 (6.77)

9/24/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092404.b\CI002.D

Date : 24-SEP-2004 10:05

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

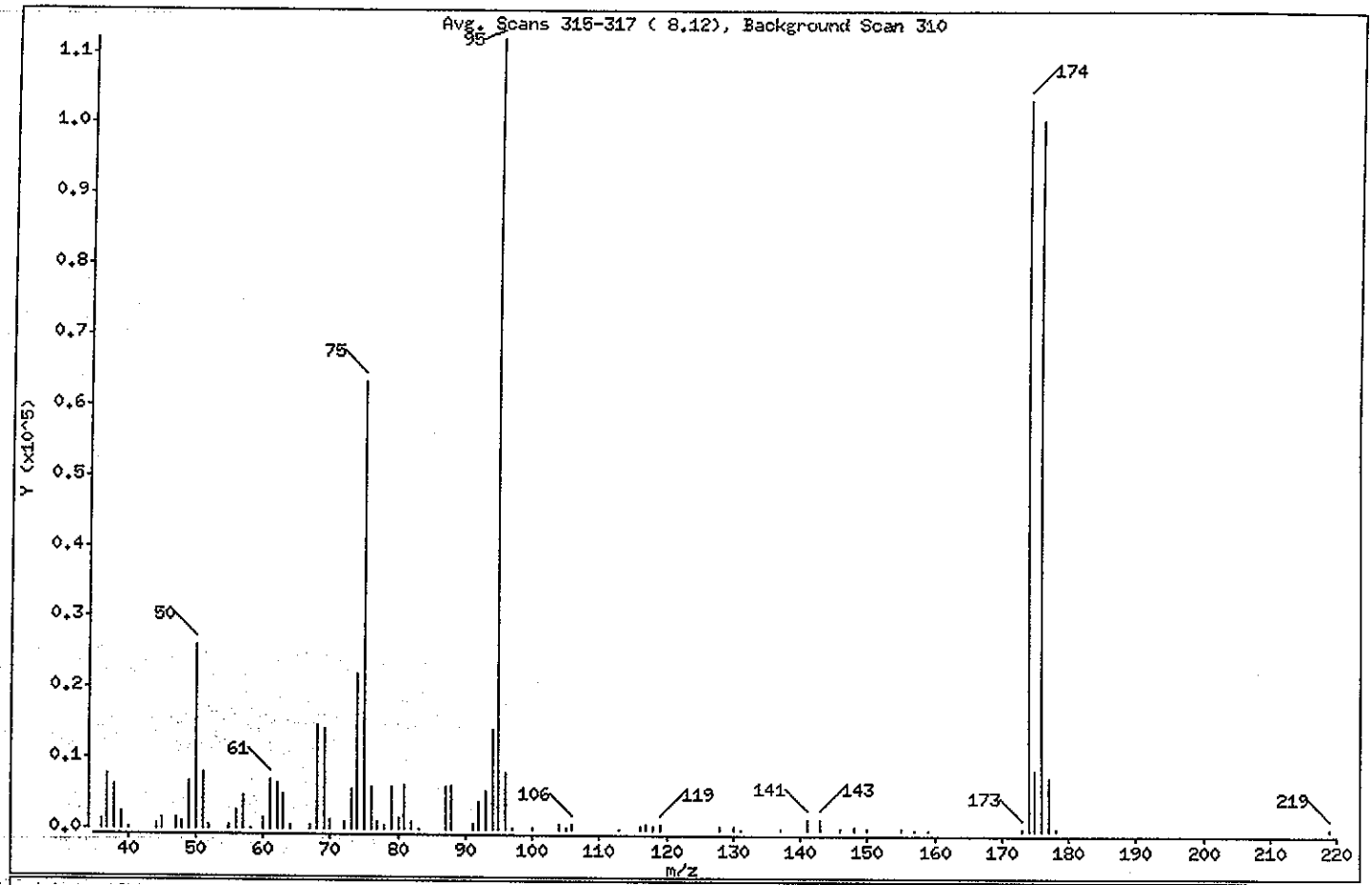
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.21
75	30.00 - 60.00% of mass 95	56.44
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.34 (0.37)
174	50.00 - 99.99% of mass 95	92.51
175	5.00 - 9.00% of mass 174	7.61 (8.22)
176	95.01 - 100.99% of mass 174	89.93 (97.21)
177	5.00 - 9.00% of mass 176	6.61 (7.36)

9/24/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ802.D

Date : 08-OCT-2004 11:04

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

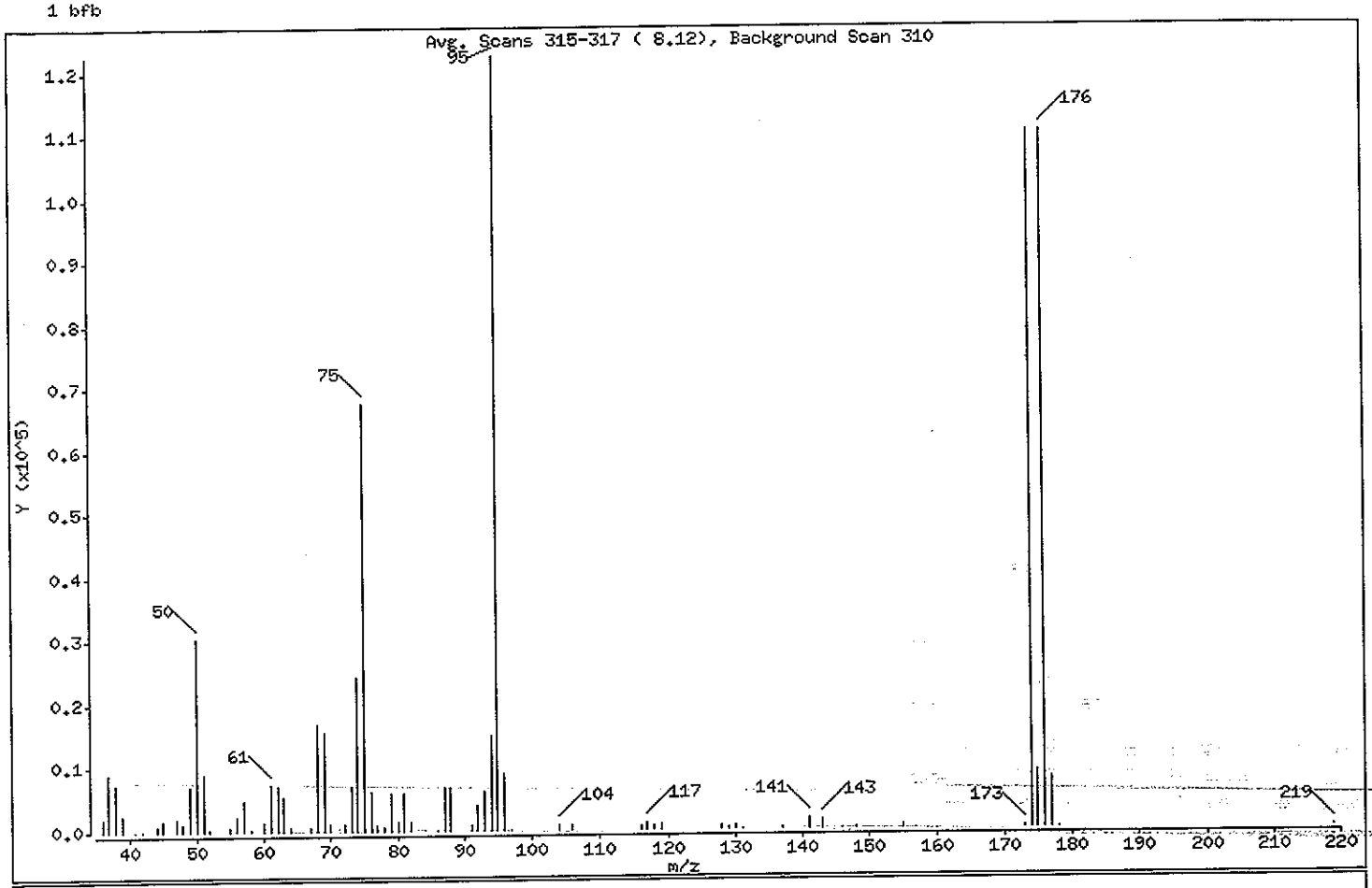
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.81
75	30.00 - 60.00% of mass 95	55.11
96	5.00 - 9.00% of mass 95	7.34
173	Less than 2.00% of mass 174	0.27 (0.30)
174	50.00 - 99.99% of mass 95	90.04
175	5.00 - 9.00% of mass 174	7.46 (8.29)
176	95.01 - 100.99% of mass 174	90.06 (100.03)
177	5.00 - 9.00% of mass 176	6.42 (7.13)

10/8/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By:

trument: MSVOA03 HP GCMS VOA 03 Type: SOIL Date: 23-SEP-2004 19:10 Inj Vol (uL): 5000
num: 424385122001 Name: I3M826

ibration levels:

Filename	Seqnum	Samplenum	Analyzed	Standards
cin14	424385122014	5PPB	23-SEP-2004 19:10	04SS352 (100000X), 04WS1756A (50000X), 04WS1580 (5000X)
cin15	424385122015	10PPB	23-SEP-2004 19:44	04SS352 (50000X), 04WS1756A (25000X), 04WS1580 (5000X)
cin16	424385122016	20PPB	23-SEP-2004 20:17	04SS352 (25000X), 04WS1756A (12500X), 04WS1580 (5000X)
cin17	424385122017	50PPB	23-SEP-2004 20:51	04SS352 (10000X), 04WS1756A (5000X), 04WS1580 (5000X)
cin18	424385122018	60PPB	23-SEP-2004 21:25	04SS352 (8333X), 04WS1756A (4167X), 04WS1580 (5000X)
cin19	424385122019	75PPB	23-SEP-2004 21:58	04SS352 (6667X), 04WS1756A (3333X), 04WS1580 (5000X)
cin20	424385122020	100PPB	23-SEP-2004 22:32	04SS352 (5000X), 04WS1756A (2500X), 04WS1580 (5000X)

alyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4252m	0.4828m	0.4624m	0.4695	0.4959	0.4066	0.4794m	AVRG	R		2.172616		ug/L	0.4603	7	0.0500	0.99	15	
Chloromethane	0.5355	0.5366	0.4764	0.4583	0.4845	0.4490	0.4834	AVRG	R		2.044541		ug/L	0.4891	7	0.1000	0.99	15	
Vinyl Chloride	0.3828m	0.3772	0.3328	0.3061	0.3116	0.2585	0.2710	AVRG	R		3.124938		ug/L	0.3200	15	0.0500	0.99	15	
Bromomethane	0.2510	0.2484	0.2342	0.2285	0.2317	0.2183	0.2306	AVRG	R		4.261306		ug/L	0.2347	5	0.0500	0.99	15	
Chloroethane	0.2421m	0.2403	0.2178	0.2144	0.2248	0.2025	0.2176	AVRG	R		4.488505		ug/L	0.2228	6	0.0500	0.99	15	
Trichlorofluoromethane	0.7169	0.7644	0.6938	0.6930	0.7275	0.6262	0.7227	AVRG	R		1.415719		ug/L	0.7064	6	0.0500	0.99	15	
Acetone		0.1459	0.1249	0.1240	0.1242	0.1252	0.1245	AVRG	R		7.804607		ug/L	0.1281	7	0.0500	0.99	15	
Freon 113	0.3542	0.3173	0.3686	0.3483	0.3511	0.3332	0.3581	AVRG	R		2.879744		ug/L	0.3473	5	0.0500	0.99	15	
1,1-Dichloroethene	0.3355	0.2921	0.3018	0.2979	0.3035	0.2859	0.3125	AVRG	R		3.287764		ug/L	0.3042	5	0.0500	0.99	15	
Methylene Chloride	0.4689	0.4485	0.4307	0.4180	0.4248	0.4063	0.4204	AVRG	R		2.319693		ug/L	0.4311	5	0.0500	0.99	15	
Carbon Disulfide	1.0578	1.0172	1.0466	1.0299	1.0615	1.0088	1.0717	AVRG	R		0.959767		ug/L	1.0419	2	0.0500	0.99	15	
MTBE	1.1182	1.0346	1.0547	1.0417	1.0716	1.0457	1.0824	AVRG	R		0.939720		ug/L	1.0641	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4135	0.3860	0.3802	0.3602	0.3635	0.3522	0.3657	AVRG	R		2.670418		ug/L	0.3745	6	0.0500	0.99	15	
Vinyl Acetate	0.6440	0.6051	0.6395	0.6665	0.7072	0.6842	0.7392	AVRG	R		1.493912		ug/L	0.6694	7	0.0500	0.99	15	
1,1-Dichloroethane	0.7459	0.6928	0.6791	0.6541	0.6631	0.6413	0.6612	AVRG	R		1.477547		ug/L	0.6768	5	0.1000	0.99	15	
2-Butanone	0.1832	0.1747	0.1726	0.1747	0.1831	0.1817	0.1832	AVRG	R		5.585434		ug/L	0.1790	3	0.0500	0.99	15	
2,2-Dichloropropane	0.6204	0.5778	0.5846	0.5637	0.5716	0.5421	0.5709	AVRG	R		1.736468		ug/L	0.5759	4	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.4688	0.4391	0.4187	0.4116	0.4122	0.3936	0.4158	AVRG	R		2.365072		ug/L	0.4228	6	0.0500	0.99	15	

ICAL - GOOD
ICV - GOOD + A.C.E. limit - TCFM↑, F113↑

Flags used: m=manual integration for inc. int. by Target.
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

9/27/07

9/24/07

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424385122001 Name: I3M826 Type: SOIL Date: 23-SEP-2004 19:10 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.9409	0.8524	0.8255	0.8091	0.8193	0.7843	0.7980	AVRG	R		1.200773		ug/L	0.8328	6	0.0500	0.99	15	
Bromochloromethane	0.2682	0.2606	0.2546	0.2524	0.2539	0.2396	0.2523	AVRG	R		3.928858		ug/L	0.2545	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.6783	0.6109	0.6377	0.6228	0.6315	0.5933	0.6336	AVRG	R		1.587957		ug/L	0.6297	4	0.0500	0.99	15	
1,1-Dichloropropene	0.3945	0.3607	0.3846	0.3761	0.3707	0.3520	0.3734	AVRG	R		2.679948		ug/L	0.3731	4	0.0500	0.99	15	
Carbon Tetrachloride	0.4359	0.3902	0.4289	0.4203	0.4211	0.3950	0.4203	AVRG	R		2.404071		ug/L	0.4160	4	0.0500	0.99	15	
1,2-Dichloroethane	0.5592	0.5347	0.5234	0.5110	0.5103	0.4895	0.4946	AVRG	R		1.932249		ug/L	0.5175	5	0.0500	0.99	15	
Benzene	1.0749	0.9974	0.9762	0.9466	0.9377	0.9138	0.9297	AVRG	R		1.033012		ug/L	0.9680	6	0.0500	0.99	15	
Trichloroethene	0.3416	0.3153	0.3259	0.3140	0.3129	0.2970	0.3050	AVRG	R		3.165043		ug/L	0.3160	5	0.0500	0.99	15	
1,2-Dichloropropane	0.2716	0.2688	0.2680	0.2569	0.2630	0.2606	0.2642	AVRG	R		3.777348		ug/L	0.2647	2	0.0500	0.99	15	
Bromodichloromethane	0.4901	0.4904	0.4870	0.4825	0.4812	0.4687	0.4763	AVRG	R		2.073389		ug/L	0.4823	2	0.0500	0.99	15	
Dibromomethane	0.3102	0.2974	0.2982	0.2967	0.2918	0.2859	0.2888	AVRG	R		3.383363		ug/L	0.2956	3	0.0500	0.99	15	
4-Methyl-2-Pentanone	0.2514	0.2585	0.2614	0.2808	0.2876	0.2857	0.2875	AVRG	R		3.659093		ug/L	0.2733	6	0.0500	0.99	15	
Tetramethyl THF	0.5574	0.5785	0.5851	0.6155	0.6218	0.6071	0.6291	AVRG	R		1.668821		ug/L	0.5992	4	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4690	0.4581	0.4612	0.4749	0.4777	0.4610	0.4753	AVRG	R		2.135974		ug/L	0.4682	2	0.0500	0.99	15	
Toluene-	0.6193	0.6183	0.6184	0.6099	0.5974	0.5773	0.5960	AVRG	R		1.652275		ug/L	0.6052	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.4326	0.4225	0.4409	0.4634	0.4710	0.4539	0.4597	AVRG	R		2.226361		ug/L	0.4492	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2399	0.2444	0.2370	0.2430	0.2444	0.2382	0.2402	AVRG	R		4.149170		ug/L	0.2410	1	0.0500	0.99	15	
2-Hexanone	0.2534	0.2500	0.2446	0.2594	0.2689	0.2601	0.2630	AVRG	R		3.890189		ug/L	0.2571	3	0.0500	0.99	15	
1,3-Dichloropropane	0.5231	0.5262	0.5057	0.5099	0.5161	0.4936	0.4978	AVRG	R		1.959505		ug/L	0.5103	2	0.0500	0.99	15	
Tetrachloroethene	0.4429	0.4070	0.4254	0.3992	0.3963	0.3700	0.3832	AVRG	R		2.478760		ug/L	0.4034	6	0.0500	0.99	15	
Dibromochloromethane	0.4492	0.4542	0.4419	0.4628	0.4685	0.4278	0.4566	AVRG	R		2.214516		ug/L	0.4516	3	0.0500	0.99	15	
1,2-Dibromoethane	0.3146	0.3126	0.3195	0.3336	0.3328	0.3222	0.3301	AVRG	R		3.090069		ug/L	0.3236	3	0.0500	0.99	15	
Chlorobenzene	0.9690	0.9363	0.9188	0.8824	0.8653	0.8314	0.8461	AVRG	R		1.120115		ug/L	0.8928	6	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3968	0.3946	0.3735	0.3608	0.3611	0.3385	0.3501	AVRG	R		2.718157		ug/L	0.3679	6	0.0500	0.99	15	
Ethylbenzene	1.6064	1.5075	1.4920	1.4216	1.4297	1.3589	1.3990	AVRG	R		0.685270		ug/L	1.4593	6	0.0500	0.99	15	
m,p-Xylenes	0.5587	0.5282	0.5139	0.4927	0.4931	0.4566	0.4671	AVRG	R		1.994041		ug/L	0.5015	7	0.0500	0.99	15	
o-Xylene	0.5510	0.5303	0.5277	0.4933	0.4963	0.4703	0.4777	AVRG	R		1.973708		ug/L	0.5067	6	0.0500	0.99	15	
Styrene	0.9229	0.9066	0.9186	0.8909	0.8899	0.8323	0.8444	AVRG	R		1.128025		ug/L	0.8865	4	0.0500	0.99	15	
Bromoform	0.3524	0.3654	0.3791	0.4005	0.4060	0.3932	0.4016	AVRG	R		2.594338		ug/L	0.3855	5	0.1000	0.99	15	
Isopropylbenzene	2.3415	2.2427	2.3276	2.2290	2.1786	2.0231	2.1337	AVRG	R		0.452305		ug/L	2.2109	5	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	0.8368	0.8241	0.8274	0.8274	0.8239	0.7863	0.8169	AVRG	R		1.218925		ug/L	0.8204	2	0.3000	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By:

Instrument: MSVOA03 HP GCMS VOA 03 Type: SOIL Date: 23-SEP-2004 19:10 Inj Vol (uL): 5000

Calnum: 424385122001 Name: I3M826

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
1,2,3-Trichloropropane	0.2239	0.2218	0.2224	0.2158	0.2157	0.2025	0.2063	AVRG	R		4.640546		ug/L	0.2155	4	0.0500	0.99	15	
Propylbenzene	3.0921	2.9407	2.9819	2.8230	2.7460	2.5939	2.6701	AVRG	R		0.352684		ug/L	2.8354	6	0.0500	0.99	15	
Bromobenzene	0.8513	0.8053	0.8119	0.7682	0.7416	0.6940	0.7146	AVRG	R		1.299426		ug/L	0.7696	7	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.1341	2.0429	2.0203	1.9044	1.8404	1.7476	1.7826	AVRG	R		0.519589		ug/L	1.9246	8	0.0500	0.99	15	
2-Chlorotoluene	2.2732	2.1516	2.1453	2.0159	1.9862	1.8872	1.8935	AVRG	R		0.487708		ug/L	2.0504	7	0.0500	0.99	15	
4-Chlorotoluene	2.1502	2.1215	2.0658	1.9390	1.9245	1.8116	1.8928	AVRG	R		0.503399		ug/L	1.9865	6	0.0500	0.99	15	
tert-Butylbenzene	1.9297	1.8501	1.8726	1.7960	1.7534	1.6384	1.7198	AVRG	R		0.557329		ug/L	1.7943	6	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.0559	2.0299	1.9846	1.9112	1.8271	1.7582	1.8357	AVRG	R		0.522292		ug/L	1.9146	6	0.0500	0.99	15	
sec-Butylbenzene	2.5500	2.5292	2.5241	2.4162	2.3734	2.2189	2.3370	AVRG	R		0.413007		ug/L	2.4213	5	0.0500	0.99	15	
para-Isopropyl Toluene	2.1475	2.0616	2.0307	1.9223	1.8872	1.7974	1.8340	AVRG	R		0.511672		ug/L	1.9544	7	0.0500	0.99	15	
1,3-Dichlorobenzene	1.4489	1.3943	1.3749	1.3185	1.2984	1.2147	1.2593	AVRG	R		0.751961		ug/L	1.3299	6	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5283	1.4507	1.4052	1.3241	1.2912	1.2249	1.2561	AVRG	R		0.738363		ug/L	1.3543	8	0.0500	0.99	15	
n-Butylbenzene	1.9830	2.0032	1.9971	1.8931	1.8505	1.7892	1.8565	AVRG	R		0.523456		ug/L	1.9104	4	0.0500	0.99	15	
1,2-Dichlorobenzene	1.3829	1.3442	1.3217	1.2741	1.2498	1.1883	1.2081	AVRG	R		0.780456		ug/L	1.2813	6	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1591	0.1729	0.1785	0.1780	0.1902	0.1783	0.1762	AVRG	R		5.676491		ug/L	0.1762	5	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8805	0.8699	0.8479	0.7943	0.7679	0.7463	0.7654	AVRG	R		1.234086		ug/L	0.8103	7	0.0500	0.99	15	
Hexachlorobutadiene	0.6596	0.6223	0.6678	0.6012	0.6125	0.5506	0.5579	AVRG	R		1.638584		ug/L	0.6103	7	0.0500	0.99	15	
Naphthalene	1.1549	1.1818	1.1951	1.2663	1.2571	1.2533	1.3156	AVRG	R		0.811670		ug/L	1.2320	5	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8382	0.8155	0.8075	0.7538	0.7429	0.7191	0.7399	AVRG	R		1.292260		ug/L	0.7738	6	0.0500	0.99	15	
Dibromofluoromethane	0.6028	0.5875	0.5875	0.6008	0.5946	0.5857	0.6065	AVRG	R		1.680504		ug/L	0.5951	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.5064	0.4776	0.4890	0.4836	0.4778	0.4811	0.4713	AVRG	R		2.066826		ug/L	0.4838	2	0.0500	0.99	15	
Trifluorotoluene	0.4474	0.4157	0.4475	0.4308	0.4265	0.4000	0.4245	AVRG	R		2.339223		ug/L	0.4275	4	0.0500	0.99	15	
Toluene-d8	0.9911	1.0029	1.0124	1.0258	1.0259	1.0335	1.0415	AVRG	R		0.981327		ug/L	1.0190	2	0.0500	0.99	15	
Bromofluorobenzene	0.9889	0.9832	1.0028	1.0027	1.0154	0.9824	1.0015	AVRG	R		1.003306		ug/L	0.9967	1	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : MSVOA03
eqnum : 424386495005
alnum : 424385122001
tandards: 04WS1580 (5000X), 04WS1726A (5000X)

Run Name :
Filename : cio05
Caldate : 23-SEP-2004

Injected : 24-SEP-2004 11:44
Caltype : SOIL

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags	
Freon 12	50.00000	53.31560	ug/L	7	30		
Chloromethane	50.00000	46.96450	ug/L	-6	30		
Vinyl Chloride	50.00000	55.26830	ug/L	11	20		
Bromomethane	50.00000	52.90100	ug/L	6	30		
Chloroethane	50.00000	53.89980	ug/L	8	30		
Trichlorofluoromethane	50.00000	62.77500	ug/L	26	30	!v+	
Dibromofluoromethane	50.00000	50.21330	ug/L	0	30		(NOT USED)
1,2-Dichloroethane-d4	50.00000	51.15010	ug/L	2	30		(NOT USED)
Toluene-d8	50.00000	49.78270	ug/L	0	30		(NOT USED)
Bromofluorobenzene	50.00000	49.62440	ug/L	-1	30		(NOT USED)

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	961277	4.99	9.39	9.39	0.00
1,4-Difluorobenzene	1223395	1291674	5.58	10.88	10.88	0.00
Chlorobenzene-d5	1036441	1070718	3.31	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	618690	3.13	20.18	20.18	0.00

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!=warning +=high bias v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

10/11/04

Instid : MSVOA03
Signum : 424385122022
Calnum : 424385122001
Standards: 04WS1554B (5000X), 04WS1580 (5000X)

Run Name :
Filename : cin22
Caldate : 23-SEP-2004

Injected : 23-SEP-2004 23:40
Caltype : SOIL

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	50.15380	ug/L	0	40	
Freon 113	50.00000	64.74660	ug/L	29	30	!v+
1,1-Dichloroethene	50.00000	55.08810	ug/L	10	20	
Methylene Chloride	50.00000	53.57980	ug/L	7	30	
Carbon Disulfide	50.00000	54.08870	ug/L	8	30	
MTBE	50.00000	56.77830	ug/L	14	30	
Trans-1,2-Dichloroethene	50.00000	54.04460	ug/L	8	30	
Vinyl Acetate	50.00000	45.40220	ug/L	-9	40	
1,1-Dichloroethane	50.00000	54.85450	ug/L	10	30	
2-Butanone	50.00000	49.54460	ug/L	-1	40	
2,2-Dichloropropane	50.00000	54.74850	ug/L	9	30	
cis-1,2-Dichloroethene	50.00000	54.32490	ug/L	9	30	
Chloroform	50.00000	52.48090	ug/L	5	20	
Bromochloromethane	50.00000	51.51020	ug/L	3	30	
1,1,1-Trichloroethane	50.00000	55.23030	ug/L	10	30	
1,1-Dichloropropene	50.00000	53.52660	ug/L	7	30	
Carbon Tetrachloride	50.00000	55.57740	ug/L	11	30	
1,2-Dichloroethane	50.00000	50.48840	ug/L	1	30	
Benzene	50.00000	52.63850	ug/L	5	30	
Trichloroethene	50.00000	53.54900	ug/L	7	30	
1,2-Dichloropropane	50.00000	52.75210	ug/L	6	20	
Bromodichloromethane	50.00000	53.51260	ug/L	7	30	
Dibromomethane	50.00000	49.69910	ug/L	-1	30	
4-Methyl-2-Pentanone	50.00000	48.38660	ug/L	-3	40	
Tetramethyl THF	50.00000	45.74390	ug/L	-9	30	
cis-1,3-Dichloropropene	50.00000	52.16370	ug/L	4	30	
Toluene	50.00000	53.34060	ug/L	7	20	
trans-1,3-Dichloropropene	50.00000	49.26600	ug/L	-1	30	
1,1,2-Trichloroethane	50.00000	52.66310	ug/L	5	30	
2-Hexanone	50.00000	49.09060	ug/L	-2	40	
1,3-Dichloropropane	50.00000	51.00730	ug/L	2	30	
Tetrachloroethene	50.00000	52.47890	ug/L	5	30	
Dibromochloromethane	50.00000	52.89510	ug/L	6	30	
1,2-Dibromoethane	50.00000	51.43430	ug/L	3	30	
Chlorobenzene	50.00000	50.91340	ug/L	2	30	
1,1,1,2-Tetrachloroethane	50.00000	51.88450	ug/L	4	30	
Ethylbenzene	50.00000	52.61170	ug/L	5	20	
m,p-Xylenes	100.0000	103.9821	ug/L	4	30	
o-Xylene	50.00000	51.89910	ug/L	4	30	
Styrene	50.00000	52.88410	ug/L	6	30	
Bromoform	50.00000	52.80270	ug/L	6	30	
Isopropylbenzene	50.00000	48.90370	ug/L	-2	30	
1,1,2,2-Tetrachloroethane	50.00000	50.77540	ug/L	2	30	
1,2,3-Trichloropropane	50.00000	49.35320	ug/L	-1	30	
Propylbenzene	50.00000	53.05750	ug/L	6	30	
Bromobenzene	50.00000	50.79810	ug/L	2	30	
1,3,5-Trimethylbenzene	50.00000	52.65680	ug/L	5	30	

!=warning +=high bias v=ICV

9/24/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : MSVOA03
eqnum : 424385122022
alnum : 424385122001
tandards: 04WS1554B (5000X), 04WS1580 (5000X)

Run Name :
Filename : cin22
Caldate : 23-SEP-2004

Injected : 23-SEP-2004 23:40
Caltype : SOIL

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
2-Chlorotoluene	50.00000	51.72410	ug/L	3	30
4-Chlorotoluene	50.00000	50.82630	ug/L	2	30
tert-Butylbenzene	50.00000	53.75250	ug/L	8	30
1,2,4-Trimethylbenzene	50.00000	52.58140	ug/L	5	30
sec-Butylbenzene	50.00000	53.26460	ug/L	7	30
para-Isopropyl Toluene	50.00000	51.07140	ug/L	2	30
1,3-Dichlorobenzene	50.00000	49.75330	ug/L	0	30
1,4-Dichlorobenzene	50.00000	49.51870	ug/L	-1	30
n-Butylbenzene	50.00000	53.62090	ug/L	7	30
1,2-Dichlorobenzene	50.00000	49.84030	ug/L	0	30
1,2-Dibromo-3-Chloropropane	50.00000	50.37650	ug/L	1	30
1,2,4-Trichlorobenzene	50.00000	49.27690	ug/L	-1	30
Hexachlorobutadiene	50.00000	53.50520	ug/L	7	30
Naphthalene	50.00000	51.75100	ug/L	4	30
1,2,3-Trichlorobenzene	50.00000	50.76480	ug/L	2	30
Dibromofluoromethane	50.00000	49.55110	ug/L	-1	30
1,2-Dichloroethane-d4	50.00000	48.99730	ug/L	-2	30
Toluene-d8	50.00000	50.51500	ug/L	1	30
Bromofluorobenzene	50.00000	50.26880	ug/L	1	30

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	914572	-0.11	9.39	9.39	0.00
1,4-Difluorobenzene	1223395	1230007	0.54	10.88	10.88	0.00
Chlorobenzene-d5	1036441	1041574	0.50	15.89	15.90	0.01
1,4-Dichlorobenzene-d4	599907	609781	1.65	20.18	20.19	0.01

b 9/24/04

!=warning +=high bias v=ICV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 60PPB IDF : 1.0
Seqnum : 424406706003 Filename : cj803 Injected : 08-OCT-2004 11:21
Calnum : 424385122001 Caldate : 23-SEP-2004 Caltype : SOIL
Standards: 04SS371 (8333X), 04WS1756B (4167X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4603	0.5569	60.00000	72.59070	ug/L	21	30	0.0500	!c+
Chloromethane	0.4891	0.5068	60.00000	62.16900	ug/L	4	30	0.1000	
Vinyl Chloride	0.3200	0.2692	60.00000	50.47940	ug/L	-16	20	0.0500	
Bromomethane	0.2347	0.2253	60.00000	57.61250	ug/L	-4	30	0.0500	
Chloroethane	0.2228	0.2128	60.00000	57.29780	ug/L	-5	30	0.0500	
Trichlorofluoromethane	0.7064	0.8082	60.00000	68.64800	ug/L	14	30	0.0500	
Acetone	0.1281	0.2141	60.00000	100.2492	ug/L	67	40	0.0500	c+ ***
Freon 113	0.3473	0.4144	60.00000	71.60620	ug/L	19	30	0.0500	
1,1-Dichloroethene	0.3042	0.3566	60.00000	70.34440	ug/L	17	20	0.0500	
Methylene Chloride	0.4311	0.4459	60.00000	62.06540	ug/L	3	30	0.0500	
Carbon Disulfide	1.0419	1.2583	60.00000	72.46270	ug/L	21	30	0.0500	!c+
MTBE	1.0641	1.0834	60.00000	61.08820	ug/L	2	30	0.0500	
trans-1,2-Dichloroethene	0.3745	0.4102	60.00000	65.72620	ug/L	10	30	0.0500	
Vinyl Acetate	0.6694	0.7927	60.00000	71.05220	ug/L	18	40	0.0500	
1,1-Dichloroethane	0.6768	0.7484	60.00000	66.34540	ug/L	11	30	0.1000	
2-Butanone	0.1790	0.2338	60.00000	78.35420	ug/L	31	40	0.0500	!c+
2,2-Dichloropropane	0.5759	0.6451	60.00000	67.21010	ug/L	12	30	0.0500	
cis-1,2-Dichloroethene	0.4228	0.4464	60.00000	63.34220	ug/L	6	30	0.0500	
Chloroform	0.8328	0.8604	60.00000	61.98770	ug/L	3	20	0.0500	
Bromochloromethane	0.2545	0.2536	60.00000	59.79230	ug/L	0	30	0.0500	
1,1,1-Trichloroethane	0.6297	0.6794	60.00000	64.72710	ug/L	8	30	0.0500	
1,1-Dichloropropene	0.3731	0.4111	60.00000	66.09570	ug/L	10	30	0.0500	
Carbon Tetrachloride	0.4160	0.4399	60.00000	63.45450	ug/L	6	30	0.0500	
1,2-Dichloroethane	0.5175	0.5038	60.00000	58.41000	ug/L	-3	30	0.0500	
Benzene	0.9680	1.0077	60.00000	62.46060	ug/L	4	30	0.0500	
Trichloroethene	0.3160	0.3247	60.00000	61.66070	ug/L	3	30	0.0500	
1,2-Dichloropropane	0.2647	0.2814	60.00000	63.77920	ug/L	6	20	0.0500	
Bromodichloromethane	0.4823	0.4735	60.00000	58.90520	ug/L	-2	30	0.0500	
Dibromomethane	0.2956	0.2803	60.00000	56.89380	ug/L	-5	30	0.0500	
4-Methyl-2-Pentanone	0.2733	0.3110	60.00000	68.27080	ug/L	14	40	0.0500	
Tetramethyl THF	0.5992	0.6551	60.00000	65.59070	ug/L	9	30	0.0500	
cis-1,3-Dichloropropene	0.4682	0.4826	60.00000	61.85230	ug/L	3	30	0.0500	
Toluene	0.6052	0.6272	60.00000	62.17930	ug/L	4	20	0.0500	
trans-1,3-Dichloropropene	0.4492	0.4590	60.00000	61.30890	ug/L	2	30	0.0500	
1,1,2-Trichloroethane	0.2410	0.2357	60.00000	58.66760	ug/L	-2	30	0.0500	
2-Hexanone	0.2571	0.3019	60.00000	70.46680	ug/L	17	40	0.0500	
1,3-Dichloropropane	0.5103	0.5150	60.00000	60.54640	ug/L	1	30	0.0500	
Tetrachloroethene	0.4034	0.4161	60.00000	61.88280	ug/L	3	30	0.0500	
Dibromochloromethane	0.4516	0.4436	60.00000	58.93720	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.3236	0.3164	60.00000	58.66670	ug/L	-2	30	0.0500	
Chlorobenzene	0.8928	0.8717	60.00000	58.58520	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3679	0.3513	60.00000	57.29220	ug/L	-5	30	0.0500	
Ethylbenzene	1.4593	1.4835	60.00000	60.99690	ug/L	2	20	0.0500	
m,p-Xylenes	0.5015	0.4958	120.0000	118.6467	ug/L	-1	30	0.0500	
o-Xylene	0.5067	0.4961	60.00000	58.75520	ug/L	-2	30	0.0500	
Styrene	0.8865	0.8675	60.00000	58.71700	ug/L	-2	30	0.0500	

!=warning +=high bias c=CCV
Page 1 of 2

6 10/8/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 60PPB IDF : 1.0
Seqnum : 424406706003 Filename : cj803 Injected : 08-OCT-2004 11:21
Calnum : 424385122001 Caldate : 23-SEP-2004 Caltype : SOIL
Standards: 04SS371 (8333X), 04WS1756B (4167X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.3855	0.3895	60.00000	60.62840	ug/L	1	30	0.1000	
Isopropylbenzene	2.2109	2.2716	60.00000	61.64620	ug/L	3	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8204	0.8385	60.00000	61.32640	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	0.2155	0.2115	60.00000	58.89130	ug/L	-2	30	0.0500	
Propylbenzene	2.8354	2.9325	60.00000	62.05500	ug/L	3	30	0.0500	
Bromobenzene	0.7696	0.7440	60.00000	58.00980	ug/L	-3	30	0.0500	
1,3,5-Trimethylbenzene	1.9246	1.8964	60.00000	59.12150	ug/L	-1	30	0.0500	
2-Chlorotoluene	2.0504	2.1080	60.00000	61.68460	ug/L	3	30	0.0500	
4-Chlorotoluene	1.9865	1.9954	60.00000	60.26920	ug/L	0	30	0.0500	
tert-Butylbenzene	1.7943	1.7778	60.00000	59.45030	ug/L	-1	30	0.0500	
1,2,4-Trimethylbenzene	1.9146	1.8331	60.00000	57.44550	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.4213	2.4522	60.00000	60.76650	ug/L	1	30	0.0500	
para-Isopropyl Toluene	1.9544	1.9034	60.00000	58.43650	ug/L	-3	30	0.0500	
1,3-Dichlorobenzene	1.3299	1.3202	60.00000	59.56360	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	1.3543	1.3383	60.00000	59.28770	ug/L	-1	30	0.0500	
n-Butylbenzene	1.9104	1.9356	60.00000	60.79060	ug/L	1	30	0.0500	
1,2-Dichlorobenzene	1.2813	1.2533	60.00000	58.69100	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1762	0.1899	60.00000	64.68500	ug/L	8	30	0.0500	
1,2,4-Trichlorobenzene	0.8103	0.7926	60.00000	58.68510	ug/L	-2	30	0.0500	
Hexachlorobutadiene	0.6103	0.6452	60.00000	63.43510	ug/L	6	30	0.0500	
Naphthalene	1.2320	1.1330	60.00000	55.17770	ug/L	-8	30	0.0500	
1,2,3-Trichlorobenzene	0.7738	0.7592	60.00000	58.86510	ug/L	-2	30	0.0500	
Dibromofluoromethane	0.5951	0.6040	50.00000	50.75380	ug/L	2	30	0.0500	
1,2-Dichloroethane-d4	0.4838	0.4696	50.00000	48.53360	ug/L	-3	30	0.0500	
Trifluorotoluene	0.4275	0.4652	60.00000	65.29310	ug/L	9	30	0.0500	
Toluene-d8	1.0190	0.9951	50.00000	48.82810	ug/L	-2	30	0.0500	
Bromofluorobenzene	0.9967	1.0359	50.00000	51.96770	ug/L	4	30	0.0500	

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	851412	-7.01	9.39	9.38	-0.01
1,4-Difluorobenzene	1223395	1191564	-2.60	10.88	10.87	-0.01
Chlorobenzene-d5	1036441	996822	-3.82	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	582856	-2.84	20.18	20.18	0.00

B 10/8/04

!=warning +=high bias c=CCV
Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 08-OCT-2004
Sequence: 424406706 (cj8)
Instrument ID: MSVOA03

ICAL Filename: cin17
Date Analyzed: 23-SEP-2004
Time Analyzed: 20:51

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	915556	9.39	1223395	10.88	1036441	15.89	599907	20.18
LOWER LIMIT	457778	8.89	611698	10.38	518221	15.39	299954	19.68
UPPER LIMIT	1831112	9.89	2446790	11.38	2072882	16.39	1199814	20.68

TYPE	SAMPLE	#								
CCV	60PPB	003	851412	9.38	1191564	10.87	996822	15.89	582856	20.18
LCS	QC267388	004	880058	9.38	1201847	10.87	1016875	15.89	592432	20.18
BLANK	QC267389	006	970759	9.38	1302144	10.87	1047023	15.89	570654	20.18
MSS	175141-001	007	549876	9.37	713480	10.86	582803	15.89	310135	20.18
SAMPLE	175141-009	008	953694	9.38	1249984	10.87	968531	15.89	503151	20.18
SAMPLE	175148-001	009	822538	9.37	1115655	10.87	907596	15.88	490088	20.17
SAMPLE	175148-002	010	886954	9.38	1194862	10.87	976245	15.89	518306	20.18
SAMPLE	175149-001	011	762453	9.37	1026921	10.87	854553	15.89	444720	20.18
SAMPLE	175149-001	012	879697	9.39	1148375	10.87	945987	15.89	452459	20.19
SAMPLE	175150-001	013	886913	9.38	1174650	10.87	974472	15.89	547621	20.18
MS	QC267390	014	890391	9.38	1169157	10.88	978757	15.89	576526	20.18
MSD	QC267391	015	923906	9.38	1224173	10.87	1046670	15.89	599515	20.18

10/11/04

MB 1/01/03 8260S ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 23-SEP-2004

Sequence: 424385122 Instrument: MSVOA03 HP GCMS VOA 03

Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	cin01	X	IB			23-SEP-2004 10:42	1.0					1	
002	cin02	X	DSBOY			23-SEP-2004 11:25	1.0					1	
003	cin03	X	IBDSBPHT150			23-SEP-2004 11:58	1.0					1	
004	cin04	X	IBDSBPHT35			23-SEP-2004 12:46	1.0					1	
005	cin05	X	IBDSBPHT35FO			23-SEP-2004 13:35	1.0					1	
006	cin06	X	IBDSBPHT35FO			23-SEP-2004 14:09	1.0					1	
007	cin07	X	MEOH			23-SEP-2004 15:32	1.0					1	
008	cin08	X	IB			23-SEP-2004 16:06	1.0					2	
009	cin09	TUN	BFB			23-SEP-2004 16:38	1.0					1	
010	cin10	X	IB			23-SEP-2004 16:55	1.0					1	
011	cin11	X	IB			23-SEP-2004 17:28	1.0					1	
012	cin12	X	IB			23-SEP-2004 18:02	1.0					1	
013	cin13	X	CALIB IB			23-SEP-2004 18:36	1.0					3 4 1	
014	cin14	ICAL	5PPB			23-SEP-2004 19:10	1.0					3 4 1	
015	cin15	ICAL	10PPB			23-SEP-2004 19:44	1.0					3 4 1	
016	cin16	ICAL	20PPB			23-SEP-2004 20:17	1.0					3 4 1	
017	cin17	ICAL	50PPB			23-SEP-2004 20:51	1.0					3 4 1	
018	cin18	ICAL	60PPB			23-SEP-2004 21:25	1.0					3 4 1	
019	cin19	ICAL	75PPB			23-SEP-2004 21:58	1.0					3 4 1	
020	cin20	ICAL	100PPB			23-SEP-2004 22:32	1.0					5 1	
021	cin21	X				23-SEP-2004 23:06	1.0		5000			6 1	
022	cin22	ICV				23-SEP-2004 23:40	1.0					1	
023	cin23	X	IB			24-SEP-2004 00:14	1.0					1	
024	cin24	X	IB			24-SEP-2004 00:48	1.0					1	
025	cin25	X	IB			24-SEP-2004 01:22	1.0					1	

ICAL - GOOD
ICV - GOOD + A.C.E. limit - TCFM↑, F113↑

9/27/07

Stds used: 1=04WS1580 2=04WS1238 3=04SS352 4=04WS1756A 5=04WS1726A 6=04WS1554B

Analyst: Date: 9/24/04

MS VOA03 - 8260 SIGL - ICV

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 24-SEP-2004

quence: 424386495 Instrument: MSVOA03 HP GCMS VOA 03
alytical Method: EPA 8260B SOP Version: 8260B_rv4

	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
1	cio01	X	IB			24-SEP-2004 09:35	1.0						1	
2	cio02	TUN	BFB			24-SEP-2004 10:05	1.0						2	
3	cio03	CCV	50PPB			24-SEP-2004 10:22	1.0	1		5000			3 4 1	
4	cio04	LCS	QC265825	94899	Soil	24-SEP-2004 11:11	1.0	1	1	5000			5 6 1	
5	cio05	ICV	GAS 09/24/04		Soil	24-SEP-2004 11:44	1.0			5000			1 7	
6	cio06	BLANK	QC265826	94899	Soil	24-SEP-2004 12:18	1.0		1	5000			1	
7	cio07	MSS	174876-001	94899	Soil	24-SEP-2004 12:56	0.9434		1	5000			1	
8	cio08	SAMPLE	174876-002	94899	Soil	24-SEP-2004 13:29	0.9804		1	5000			1	
9	cio09	SAMPLE	174876-003	94899	Soil	24-SEP-2004 14:03	0.8929		1	5000			1	
10	cio10	SAMPLE	174876-004	94899	Soil	24-SEP-2004 14:37	0.9615		1	5000			1	
11	cio11	SAMPLE	174875-001	94899	Soil	24-SEP-2004 15:10	0.9434		1	5000			1	
12	cio12	SAMPLE	174861-001	94899	Soil	24-SEP-2004 15:45	0.8929		2	5000			1	

sequence still running - for ICV purpose only - 09/24/04

29

09/24/04

Stds used: 1=04WS1580 2=04WS1238 3=04SS352 4=04WS1756A 5=04WS1726 6=04WS1554 7=04WS1726A

Analyst: _____ Date: _____

1/9

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 424406706 Instrument: MSVOA03 HP GCMS VOA 03 Begun: 08-OCT-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	cj801	X	IB			08-OCT-2004 10:26	1.0						1	
002	cj802	TUN	BFB			08-OCT-2004 11:04	1.0						2	
003	cj803	CCV	60PPB			08-OCT-2004 11:21	1.0	1		5000			3 4 1	1:ACE=100.249
004	cj804	LCS	QC267388	95297	Soil	08-OCT-2004 12:08	1.0	1		5000			5 6 1	
005	cj805	X	IB			08-OCT-2004 12:41	1.0						1	
006	cj806	BLANK	QC267389	95297	Soil	08-OCT-2004 13:15	1.0		1	5000			1	
007	cj807	MSS	175141-001	95297	Soil	08-OCT-2004 13:49	1.0		1	5000			1	
008	cj808	SAMPLE	175141-009	95297	Soil	08-OCT-2004 14:22	0.9434		1	5000			1	
009	cj809	SAMPLE	175148-001	95297	Soil	08-OCT-2004 14:56	0.9091		1	5000			1	
010	cj810	SAMPLE	175148-002	95297	Soil	08-OCT-2004 15:31	1.0		1	5000			1	
011	cj811	SAMPLE	175149-001	95297	Soil	08-OCT-2004 16:04	1.0		1	5000			1	
012	cj812	SAMPLE	175149-001	95297	Soil	08-OCT-2004 16:39	1.0		1	5000			1	
013	cj813	SAMPLE	175150-001	95297	Soil	08-OCT-2004 17:13	0.9804	1	1	5000			1 pH 1 x Ace	
014	cj814	MS	QC267390	95297	Soil	08-OCT-2004 17:47	1.0	1		5000			5 6 1	
015	cj815	MSD	QC267391	95297	Soil	08-OCT-2004 18:20	1.0	1		5000			5 6 1	
016	cj816	X	IB			08-OCT-2004 18:54	1.0						1	
017	cj817	X	IB			08-OCT-2004 19:28	1.0						1	
018	cj818	X	3A			08-OCT-2004 20:01	1.0						1 CPL	
019	cj819	X	3B			08-OCT-2004 20:35	1.0						1 ⊥	

ICAL - GOOD
ICV - GOOD A.C.E. limit - TCFM↑, F113↑
CCV - Ace↑ + A.C.E. limit - F12↑, CS_2↑, 2But↑

10/11/04

Stds used: 1=04WS1580 2=04WS1238 3=04SS371 4=04WS1756B 5=04WS1726 6=04WS1554

Analyst: Date: 10/11/04

REPORTING SUMMARY FOR 175141 8260 Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	1,2-Dichlorobenzene-d4	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	4-Isopropylbenzene	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	o-Xylene	m,p-Xylene
175141-001	MSVOA03	10/08/04 13:49	1.0	+	+	+

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 10/8/04

Prepped by:

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	175141-1	5.0	A		3	2ug MSS/MS/on SD		
2	9	5.3	↓					
3	175148-1	5.5	A-D			comp of cores		
4	2	5.0						
5	175149-1	5.0						
6	175150-1	5.1	↓		↓			
7	175126-2	0.005	A		2	1000X MSS/MS/MSD		
8	PB. MeOH 10/7				↓	25X		
9	175140-1	5.0	A-D		3			
10	AJA 10/8/04							
11	175126-2	0.005	A		2	~~500X~~ RR 1000X		
12	175025-1	5.4						
13	-2	5.1						
14	-3	5.1						
15	-4	5.3	↓					
16	175126-2	0.015			↓	RR 300X		
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	175128-1	4.7	B		2			
2	-2	6.1	↓		↓			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
Propylbenzene	ug/Kg	08/25/04	0.65	01/07/04	0.53	02/16/04	0.078
Bromobenzene	ug/Kg	08/25/04	0.85	01/07/04	0.37	02/16/04	0.18
1,3,5-Trimethylbenzene	ug/Kg	08/25/04	0.74	01/07/04	1.2	02/16/04	0.069
2-Chlorotoluene	ug/Kg	08/25/04	0.58	01/07/04	0.60	02/16/04	0.089
4-Chlorotoluene	ug/Kg	08/25/04	0.59	01/07/04	0.62	02/16/04	0.099
tert-Butylbenzene	ug/Kg	08/25/04	0.50	01/07/04	0.56	02/16/04	0.069
1,2,4-Trimethylbenzene	ug/Kg	08/25/04	0.79	01/07/04	1.8	02/16/04	0.069
sec-Butylbenzene	ug/Kg	08/25/04	0.70	01/07/04	0.83	02/16/04	0.073
para-Isopropyl Toluene	ug/Kg	08/25/04	0.68	01/07/04	1.2	02/16/04	0.12
1,3-Dichlorobenzene	ug/Kg	08/25/04	0.63	01/07/04	0.32	02/16/04	0.13
1,4-Dichlorobenzene	ug/Kg	08/25/04	0.56	01/07/04	0.57	02/16/04	0.12
n-Butylbenzene	ug/Kg	08/25/04	0.85	01/07/04	2.2	02/16/04	0.11
1,2-Dichlorobenzene	ug/Kg	08/25/04	0.40	01/07/04	0.49	02/16/04	0.11
1,2-Dibromo-3-Chloropropane	ug/Kg	08/31/04	1.5	01/07/04	0.57	02/13/04	0.56
1,2,4-Trichlorobenzene	ug/Kg	08/25/04	0.84	01/07/04	2.7	02/16/04	0.23
Hexachlorobutadiene	ug/Kg	08/25/04	1.1	01/07/04	0.89	02/16/04	0.081
Naphthalene	ug/Kg	08/25/04	0.76	01/07/04	2.5	02/16/04	0.15
1,2,3-Trichlorobenzene	ug/Kg	08/25/04	0.60	01/07/04	2.5	02/16/04	0.16
tert-Butyl Alcohol (TBA)	ug/Kg	08/25/04	13	12/22/03	10	09/22/04	8.8
Isopropyl Ether (DIPE)	ug/Kg	08/25/04	0.48	12/22/03	0.65	09/22/04	0.52
Ethyl tert-Butyl Ether (ETBE)	ug/Kg	08/25/04	0.20	12/22/03	0.79	09/22/04	0.42
Methyl tert-Amyl Ether (TAME)	ug/Kg	08/25/04	0.48	12/22/03	0.68	09/22/04	0.64
Isopropanol	ug/Kg	08/25/04	22	12/22/03	9.3	09/22/04	9.0
Ethanol	ug/Kg	08/25/04	84	12/22/03	72	09/22/04	150
Cyclohexanone	ug/Kg	08/25/04	2.0			09/22/04	14
Tetrahydrofuran	ug/Kg	08/25/04	1.2				
Gasoline C6-C10	mg/Kg					09/07/04	0.018
Gasoline C7-C12	mg/Kg					09/07/04	0.014
Dibromofluoromethane	ug/Kg	08/25/04	2.4	08/08/03	3.0		
1,2-Dichloroethane-d4	ug/Kg	08/25/04	2.7	08/08/03	2.9		
Toluene-d8	ug/Kg	08/25/04	2.4	08/08/03	2.2		
Bromofluorobenzene	ug/Kg	08/25/04	4.2	08/08/03	2.3		
Trifluorotoluene	ug/Kg	08/25/04	0.41				

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA03	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 424406706007	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: cj807	Batchnum	: 95297	Injected	: 08-OCT-2004 13:49
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
Calnum	: 424385122001	Caldate	: 23-SEP-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=cj806	Flags
Freon 12	ND		10		
Chloromethane	ND		10		
Vinyl Chloride	ND		10		
Bromomethane	ND		10		
Chloroethane	ND		10		
Trichlorofluoromethane	ND		5.0		
Acetone	ND		20		c+
Freon 113	ND		5.0		
1,1-Dichloroethene	ND		5.0		
Methylene Chloride	ND		20		
Carbon Disulfide	ND		5.0		
MTBE	ND		5.0		
trans-1,2-Dichloroethene	ND		5.0		
Vinyl Acetate	ND		50		
1,1-Dichloroethane	ND		5.0		
2-Butanone	ND		10		
cis-1,2-Dichloroethene	ND		5.0		
2,2-Dichloropropane	ND		5.0		
Chloroform	ND		5.0		
Bromochloromethane	ND		5.0		
1,1,1-Trichloroethane	ND		5.0		
1,1-Dichloropropene	ND		5.0		
Carbon Tetrachloride	ND		5.0		
1,2-Dichloroethane	ND		5.0		
Benzene	ND		5.0		
Trichloroethene	ND		5.0		
1,2-Dichloropropane	ND		5.0		
Bromodichloromethane	ND		5.0		
Dibromomethane	ND		5.0		
4-Methyl-2-Pentanone	ND		10		
cis-1,3-Dichloropropene	ND		5.0		
Toluene	ND		5.0		
trans-1,3-Dichloropropene	ND		5.0		
1,1,2-Trichloroethane	ND		5.0		
2-Hexanone	ND		10		
1,3-Dichloropropane	ND		5.0		
Tetrachloroethene	ND		5.0		
Dibromochloromethane	ND		5.0		
1,2-Dibromoethane	ND		5.0		
Chlorobenzene	ND		5.0		
1,1,1,2-Tetrachloroethane	ND		5.0		
Ethylbenzene	ND		5.0		
m,p-Xylenes	ND		5.0		

+=high bias c=CCV

Analyst: _____ Date: 10/8/04 Reviewer: _____ Date: 10/11/04

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA03	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 424406706007	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: cj807	Batchnum	: 95297	Injected	: 08-OCT-2004 13:49
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
Calnum	: 424385122001	Caldate	: 23-SEP-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=cj806	Flags
o-Xylene	ND		5.0		
Styrene	ND		5.0		
Bromoform	ND		5.0		
Isopropylbenzene	ND		5.0		
1,1,2,2-Tetrachloroethane	ND		5.0		
1,2,3-Trichloropropane	ND		5.0		
Propylbenzene	ND		5.0		
Bromobenzene	ND		5.0		
1,3,5-Trimethylbenzene	ND		5.0		
2-Chlorotoluene	ND		5.0		
4-Chlorotoluene	ND		5.0		
tert-Butylbenzene	ND		5.0		
1,2,4-Trimethylbenzene	ND		5.0		
sec-Butylbenzene	ND		5.0		
para-Isopropyl Toluene	ND		5.0		
1,3-Dichlorobenzene	ND		5.0		
1,4-Dichlorobenzene	ND		5.0		
n-Butylbenzene	ND		5.0		
1,2-Dichlorobenzene	ND		5.0		
1,2-Dibromo-3-Chloropropane	ND		5.0		
1,2,4-Trichlorobenzene	ND		5.0		
Hexachlorobutadiene	ND		5.0		
Naphthalene	ND		5.0		
1,2,3-Trichlorobenzene	ND		5.0		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	50.00	48.37	97	59-113	
1,2-Dichloroethane-d4	50.00	52.92	106	70-121	
Toluene-d8	50.00	48.54	97	84-138	
Bromofluorobenzene	50.00	55.35	111	59-113	

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	549876	-39.94	9.39	9.37	-0.02
1,4-Difluorobenzene	1223395	713480	-41.68	10.88	10.86	-0.02
Chlorobenzene-d5	1036441	582803	-43.77	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	310135	-48.30	20.18	20.18	0.00

+=high bias c=CCV

Analyst: _____ Date: 10/8/04 Reviewer: BAQ Date: 10/11/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ807.D
Report Date: 08-Oct-2004 14:48

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ807.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 13:49 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : MSS,175141-001
Misc Info : 95297,5.0/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
10 Methylene Chloride	84	6.949	6.967	(0.742)	13081	2.75935	2.7593
* 20 Pentafluorobenzene	168	9.369	9.387	(1.000)	549876	50.0000	
$ 22 Dibromofluoromethane	113	9.477	9.485	(1.012)	316521	48.3668	48.3668
$ 25 1,2-Dichloroethane-d4	65	10.215	10.223	(0.940)	365368	52.9203	52.9203
* 29 1,4-Difluorobenzene	114	10.864	10.872	(1.000)	713480	50.0000	
$ 38 Toluene-d8	98	13.363	13.370	(1.230)	705884	48.5439	48.5439
* 47 Chlorobenzene-d5	117	15.890	15.898	(1.000)	582803	50.0000	
$ 57 Bromofluorobenzene	95	18.005	18.013	(0.892)	342218	55.3548	55.3548
* 69 1,4-Dichlorobenzene-d4	152	20.179	20.177	(1.000)	310135	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ807.D
Report Date: 08-Oct-2004 14:48

Curtis & Tompkins, Ltd.

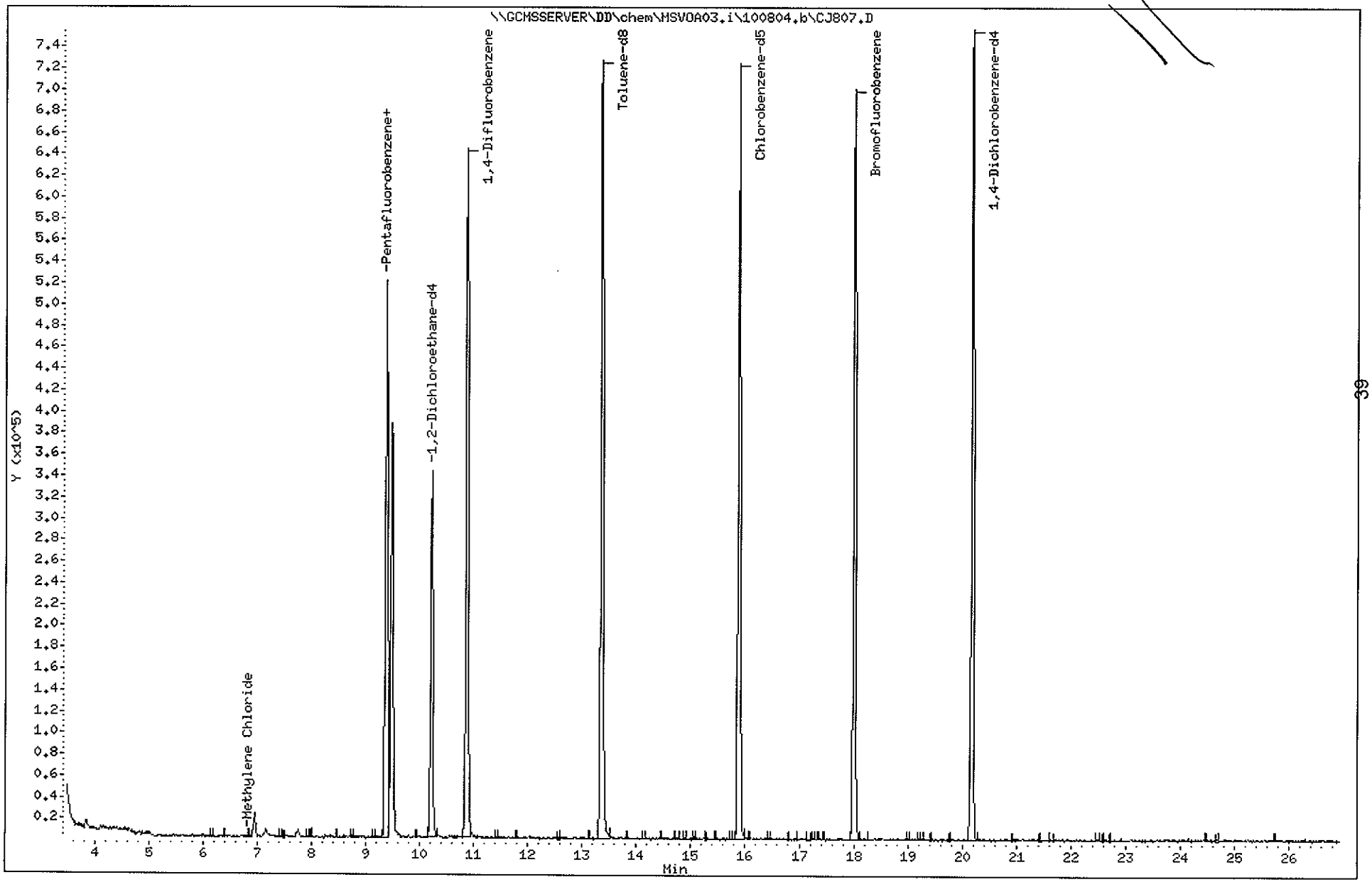
Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ807.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 13:49 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : MSS,175141-001
Misc Info : 95297,5.0/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ807.D
Date : 08-OCT-2004 13:49
Client ID: DYNA P&T
Sample Info: MSS,175141-001
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i

Operator: tw
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ807.D

Date : 08-OCT-2004 13:49

Client ID: DYNA P&T

Instrument: MSVOA03.i

Sample Info: MSS,175141-001

Purge Volume: 5.0

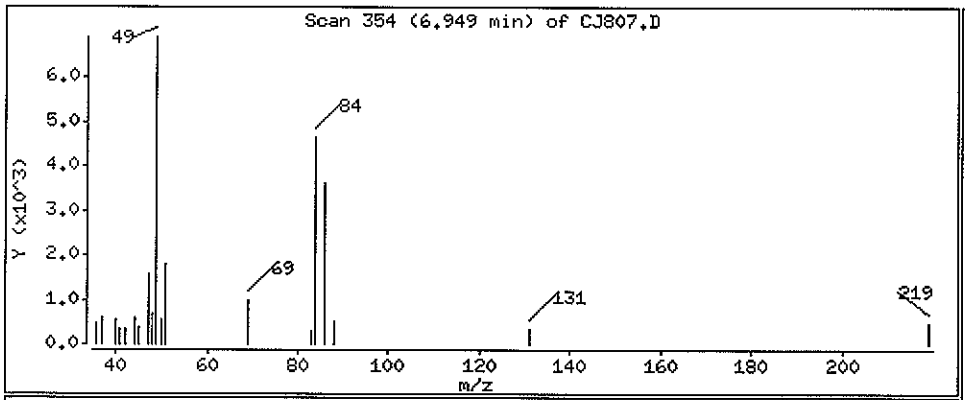
Operator: tw

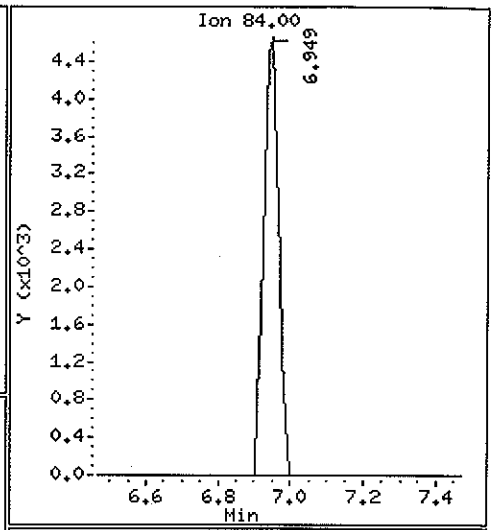
Column phase: RTx Volatiles

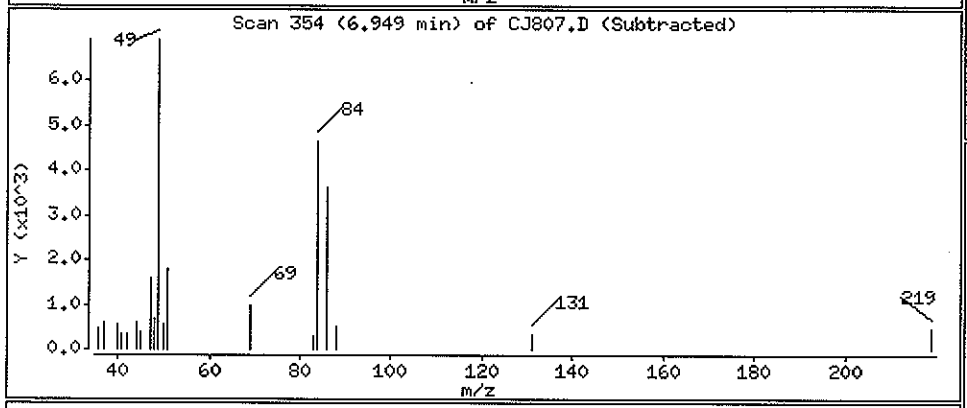
Column diameter: 0.32

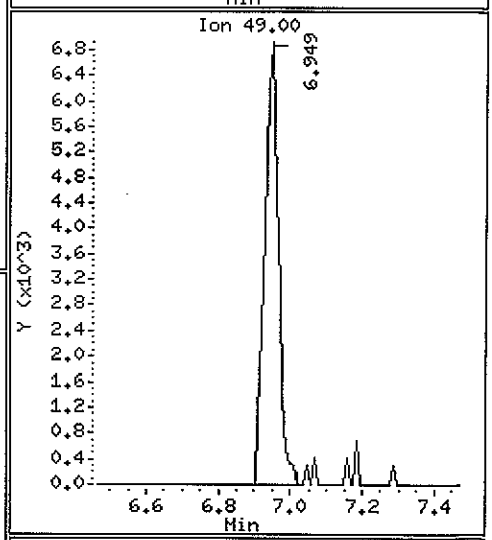
10 Methylene Chloride

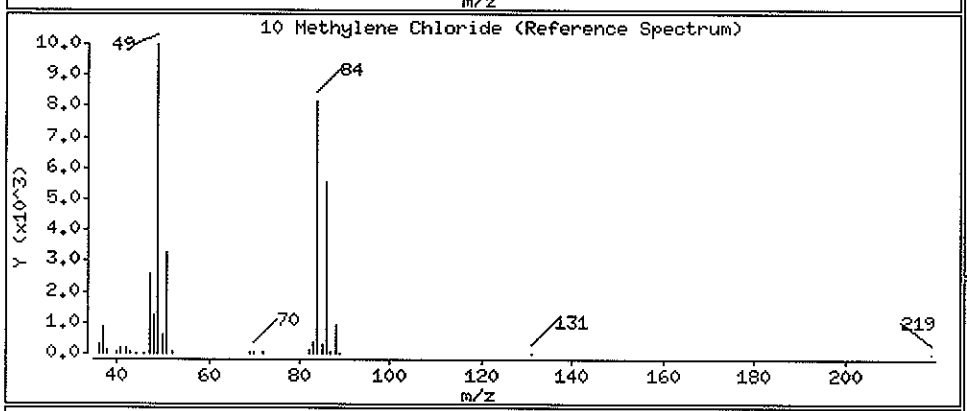
Concentration: 2.7593 UG/L

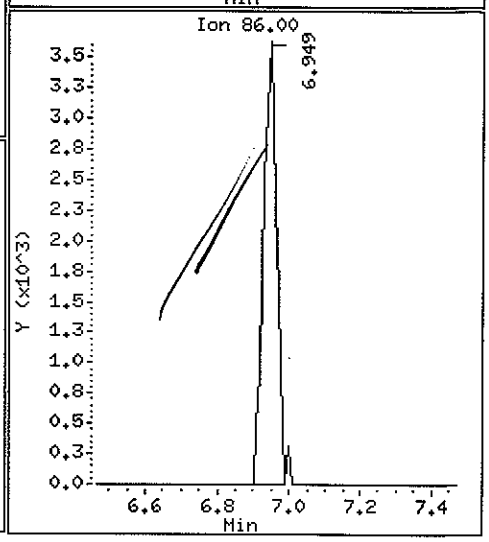


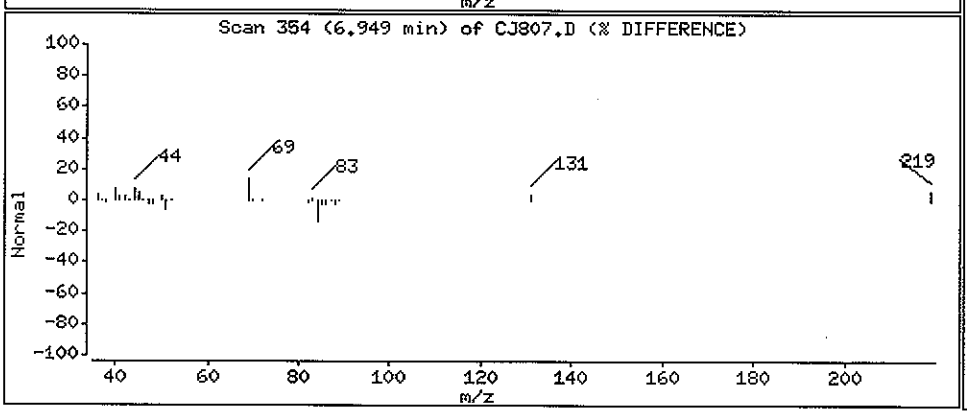












BPB 1-ND

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA03	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 424406706008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: cj808	Batchnum	: 95297	Injected	: 08-OCT-2004 14:22
IDF	: 0.9434	PDF	: 1.0	Units	: ug/Kg
Calnum	: 424385122001	Caldate	: 23-SEP-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=cj806	Flags
Freon 12	ND		9.4		
Chloromethane	ND		9.4		
Vinyl Chloride	ND		9.4		
Bromomethane	ND		9.4		
Chloroethane	ND		9.4		
Trichlorofluoromethane	ND		4.7		
Acetone	ND		19		c+
Freon 113	ND		4.7		
1,1-Dichloroethene	ND		4.7		
Methylene Chloride	ND		19		
Carbon Disulfide	ND		4.7		
MTBE	ND		4.7		
trans-1,2-Dichloroethene	ND		4.7		
Vinyl Acetate	ND		47		
1,1-Dichloroethane	ND		4.7		
2-Butanone	ND		9.4		
cis-1,2-Dichloroethene	ND		4.7		
2,2-Dichloropropane	ND		4.7		
Chloroform	ND		4.7		
Bromochloromethane	ND		4.7		
1,1,1-Trichloroethane	ND		4.7		
1,1-Dichloropropene	ND		4.7		
Carbon Tetrachloride	ND		4.7		
1,2-Dichloroethane	ND		4.7		
Benzene	ND		4.7		
Trichloroethene	ND		4.7		
1,2-Dichloropropane	ND		4.7		
Bromodichloromethane	ND		4.7		
Dibromomethane	ND		4.7		
4-Methyl-2-Pentanone	ND		9.4		
cis-1,3-Dichloropropene	ND		4.7		
Toluene	ND		4.7		
trans-1,3-Dichloropropene	ND		4.7		
1,1,2-Trichloroethane	ND		4.7		
2-Hexanone	ND		9.4		
1,3-Dichloropropane	ND		4.7		
Tetrachloroethene	ND		4.7		
Dibromochloromethane	ND		4.7		
1,2-Dibromoethane	ND		4.7		
Chlorobenzene	ND		4.7		
1,1,1,2-Tetrachloroethane	ND		4.7		
Ethylbenzene	ND		4.7		
m,p-Xylenes	ND		4.7		

+=high bias c=CCV

Analyst: _____ Date: 10/8/04 Reviewer: _____ Date: 10/11/04

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA03	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 424406706008	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: cj808	Batchnum	: 95297	Injected	: 08-OCT-2004 14:22
IDF	: 0.9434	PDF	: 1.0	Units	: ug/Kg
Calnum	: 424385122001	Caldate	: 23-SEP-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=cj806	Flags
o-Xylene	ND		4.7		
Styrene	ND		4.7		
Bromoform	ND		4.7		
Isopropylbenzene	ND		4.7		
1,1,2,2-Tetrachloroethane	ND		4.7		
1,2,3-Trichloropropane	ND		4.7		
Propylbenzene	ND		4.7		
Bromobenzene	ND		4.7		
1,3,5-Trimethylbenzene	ND		4.7		
2-Chlorotoluene	ND		4.7		
4-Chlorotoluene	ND		4.7		
tert-Butylbenzene	ND		4.7		
1,2,4-Trimethylbenzene	ND		4.7		
sec-Butylbenzene	ND		4.7		
para-Isopropyl Toluene	ND		4.7		
1,3-Dichlorobenzene	ND		4.7		
1,4-Dichlorobenzene	ND		4.7		
n-Butylbenzene	ND		4.7		
1,2-Dichlorobenzene	ND		4.7		
1,2-Dibromo-3-Chloropropane	ND		4.7		
1,2,4-Trichlorobenzene	ND		4.7		
Hexachlorobutadiene	ND		4.7		
Naphthalene	ND		4.7		
1,2,3-Trichlorobenzene	ND		4.7		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	47.17	44.60	95	59-113	
1,2-Dichloroethane-d4	47.17	49.11	104	70-121	
Toluene-d8	47.17	43.83	93	84-138	
Bromofluorobenzene	47.17	53.55	114*	59-113	

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	953694	4.17	9.39	9.38	-0.01
1,4-Difluorobenzene	1223395	1249984	2.17	10.88	10.87	-0.01
Chlorobenzene-d5	1036441	968531	-6.55	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	503151	-16.13	20.18	20.18	0.00

+=high bias c=CCV

Analyst: _____ Date: 8/8/04 Reviewer: BLD Date: 10/11/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ808.D
Report Date: 08-Oct-2004 15:22

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ808.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 14:22 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : S,175141-009
Misc Info : 95297,5.3/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
7 Acetone	43	6.003	5.993	(0.640)	3836	1.56973	1.5697
10 Methylene Chloride	84	6.947	6.967	(0.741)	19685	2.39401	2.3940
* 20 Pentafluorobenzene	168	9.377	9.387	(1.000)	953694	50.0000	
$ 22 Dibromofluoromethane	113	9.485	9.485	(1.012)	536586	47.2759	47.2759
$ 25 1,2-Dichloroethane-d4	65	10.222	10.223	(0.940)	629624	52.0536	52.0536
* 29 1,4-Difluorobenzene	114	10.872	10.872	(1.000)	1249984	50.0000	
$ 38 Toluene-d8	98	13.360	13.370	(1.229)	1183618	46.4612	46.4612
* 47 Chlorobenzene-d5	117	15.888	15.898	(1.000)	968531	50.0000	
$ 57 Bromofluorobenzene	95	18.003	18.013	(0.892)	569329	56.7634	56.7634
* 69 1,4-Dichlorobenzene-d4	152	20.177	20.177	(1.000)	503151	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ808.D
Report Date: 08-Oct-2004 15:22

Curtis & Tompkins, Ltd.

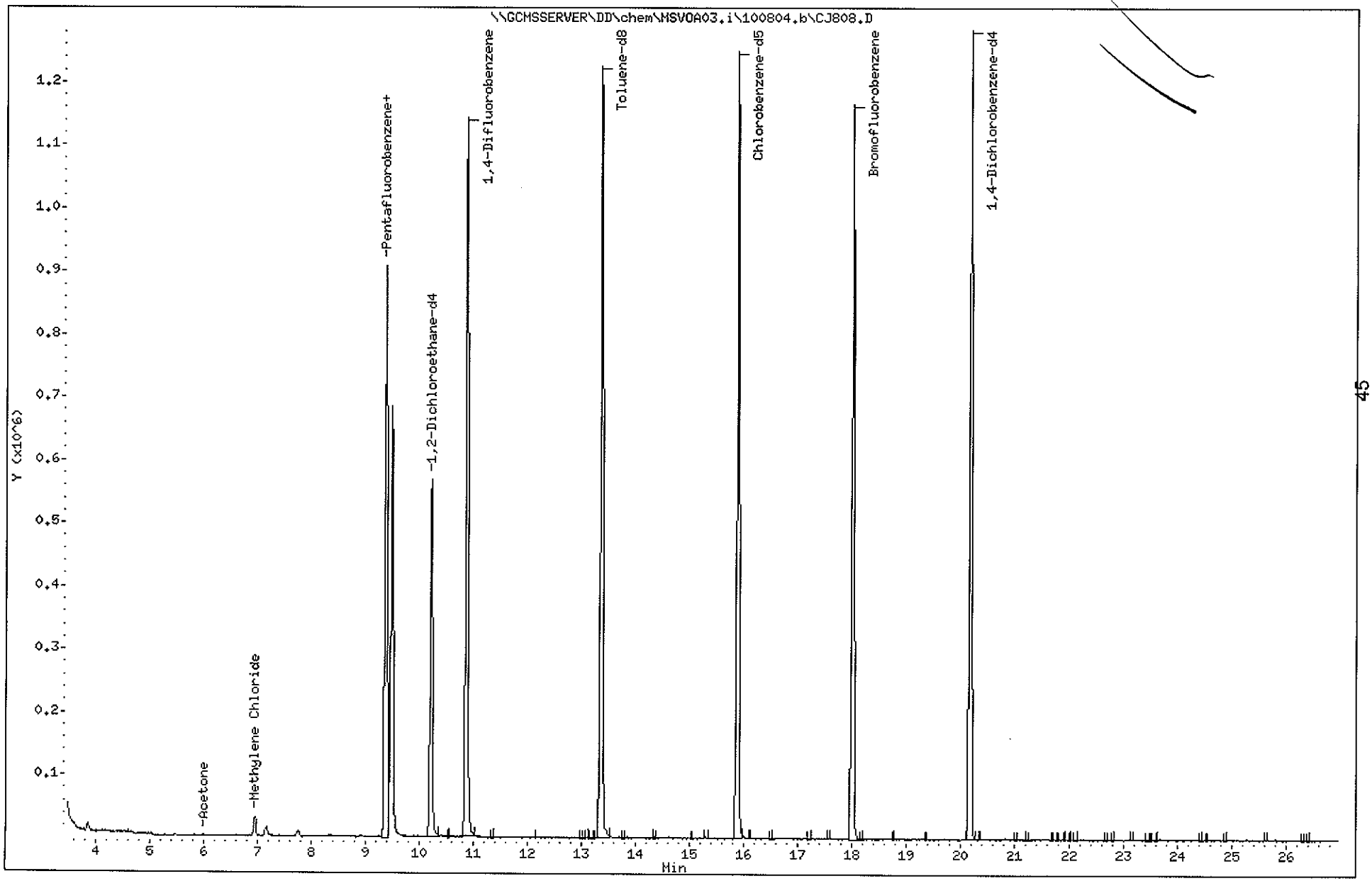
Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ808.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 14:22 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : S,175141-009
Misc Info : 95297,5.3/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ808.D
Date : 08-OCT-2004 14:22
Client ID: DYNA P&T
Sample Info: S,175141-009
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i

Operator: tw
Column diameter: 0.32



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Date : 08-OCT-2004 14:22

Client ID: DYNA P&T

Instrument: MSVOA03.i

Sample Info: S,175141-009

Purge Volume: 5.0

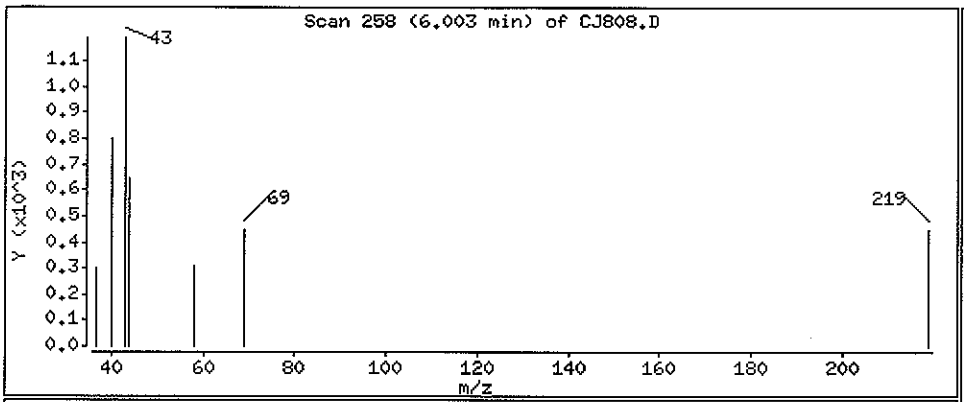
Operator: tw

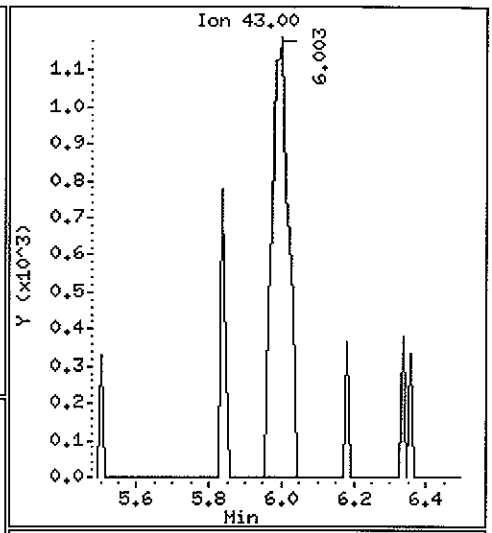
Column phase: RTx Volatiles

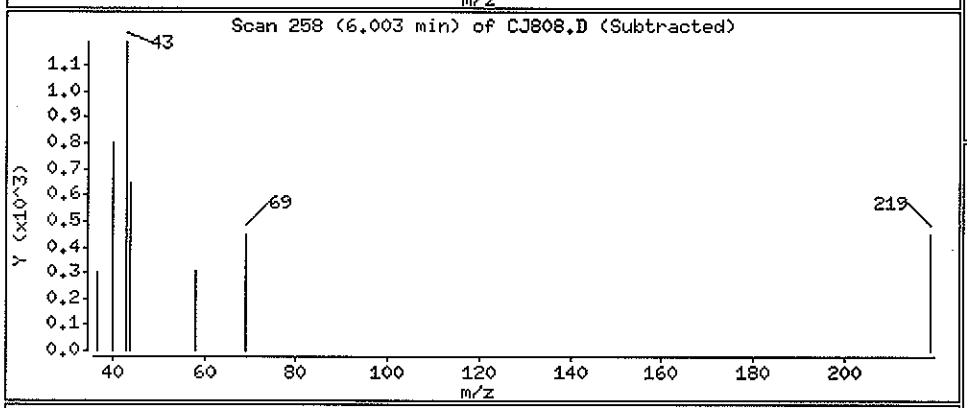
Column diameter: 0.32

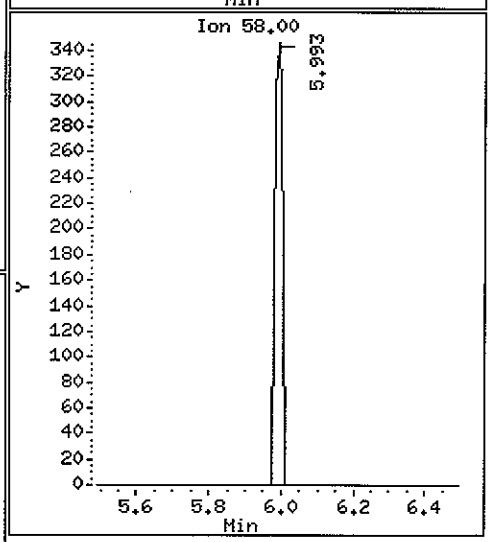
7 Acetone

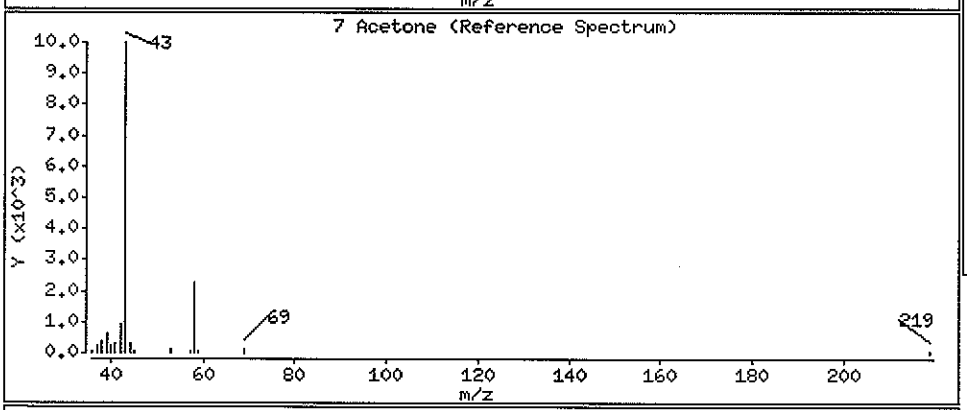
Concentration: 1.5697 UG/L

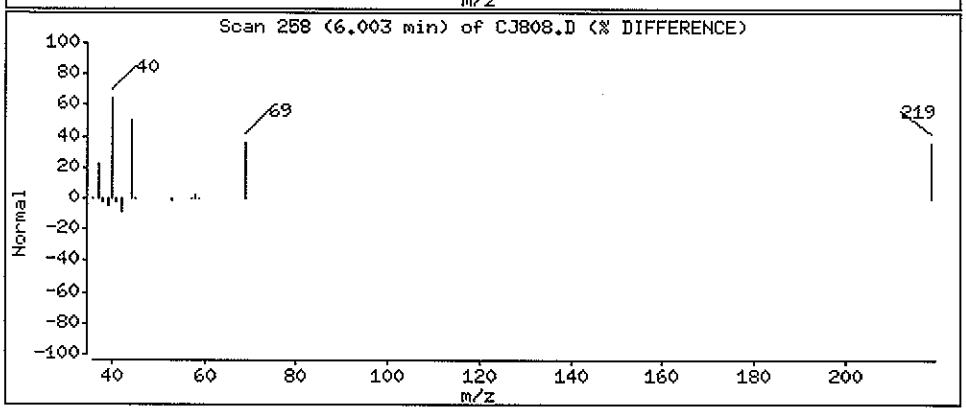












Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ808.D

Date : 08-OCT-2004 14:22

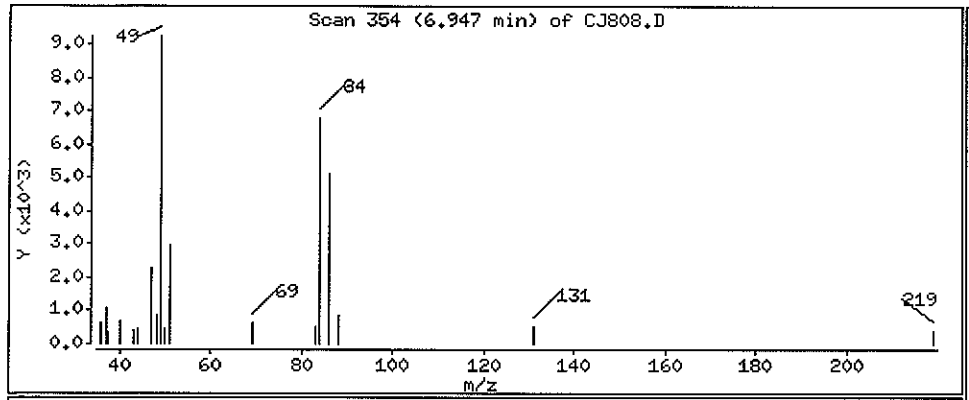
Client ID: DYNA P&T | Instrument: MSVOA03.i

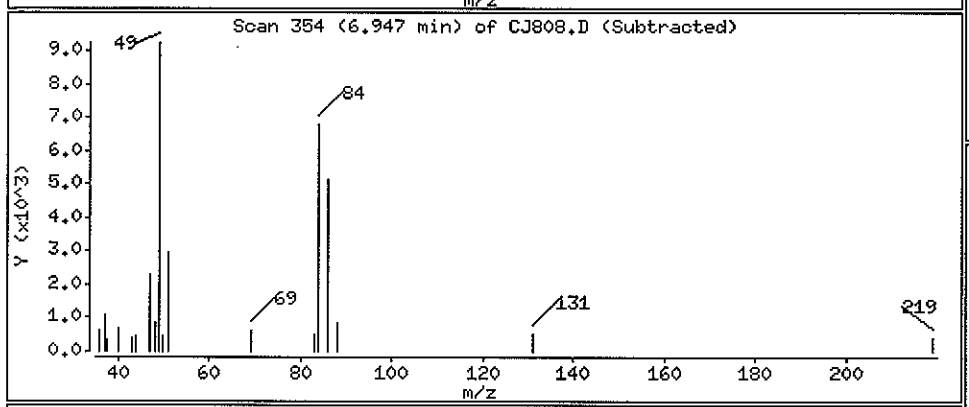
Sample Info: S,175141-009

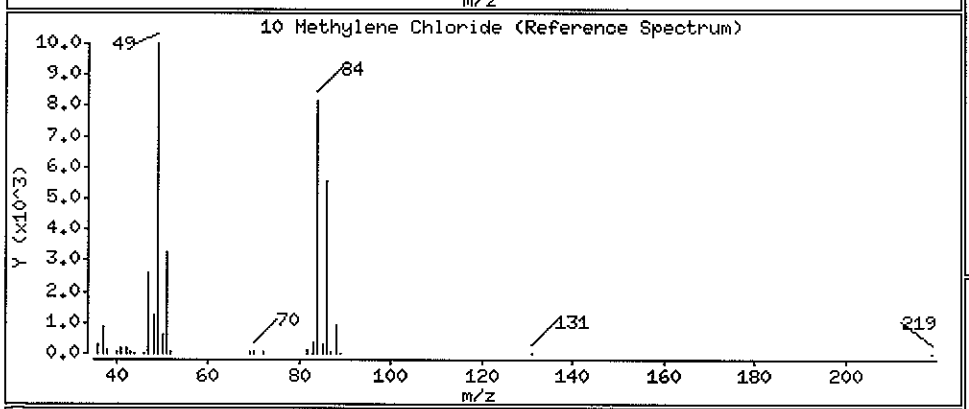
Purge Volume: 5.0 | Operator: tw

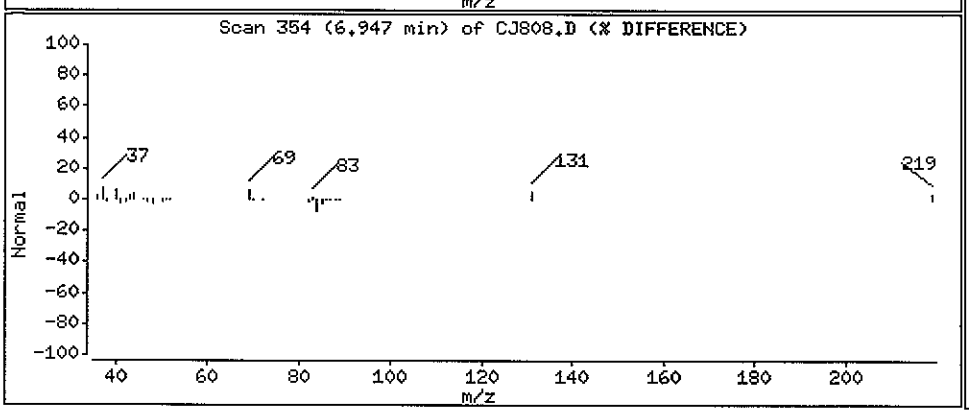
Column phase: RTx Volatiles | Column diameter: 0.32

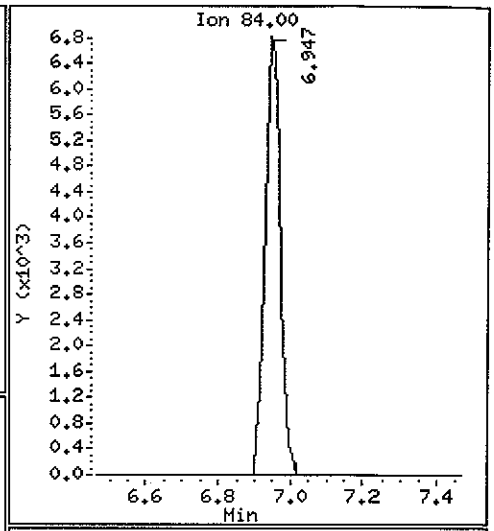
10 Methylene Chloride | Concentration: 2.3940 UG/L

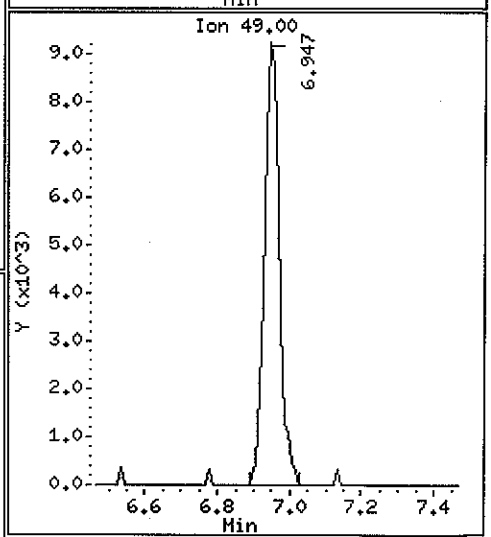


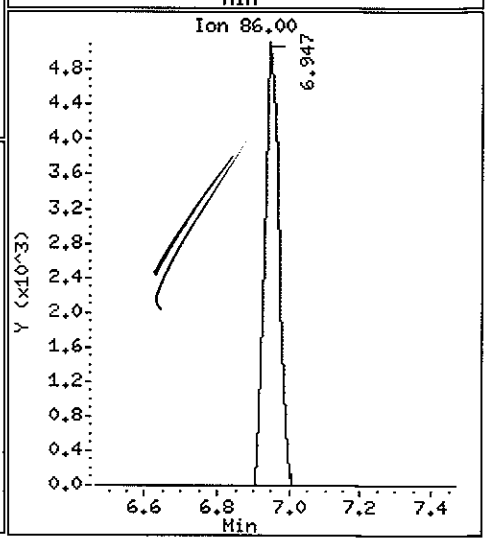












QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA03	Samplenum	: QC267389	Cident	:
Seqnum	: 424406706006	Matrix	: Soil	Acctnum	: QC
Filename	: cj806	Batchnum	: 95297	Injected	: 08-OCT-2004 13:15
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
Calnum	: 424385122001	Caldate	: 23-SEP-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	Flags
1,1-Dichloroethene	ND		5.0	
Benzene	ND		5.0	
Trichloroethene	ND		5.0	
Toluene	ND		5.0	
Chlorobenzene	ND		5.0	
Freon 12	ND		5.0	!c+
Chloromethane	ND		5.0	
Vinyl Chloride	ND		5.0	
Bromomethane	ND		5.0	
Chloroethane	ND		5.0	
Trichlorofluoromethane	ND		5.0	!v+
Acetone	ND		10	c+
Freon 113	ND		5.0	!v+
Methylene Chloride	ND		10	
MTBE	ND		5.0	
Carbon Disulfide	ND		5.0	!c+
trans-1,2-Dichloroethene	ND		5.0	
Vinyl Acetate	ND		10	
1,1-Dichloroethane	ND		5.0	
2-Butanone	ND		10	!c+
cis-1,2-Dichloroethene	ND		5.0	
2,2-Dichloropropane	ND		5.0	
Chloroform	ND		5.0	
Bromochloromethane	ND		5.0	
1,1,1-Trichloroethane	ND		5.0	
1,1-Dichloropropene	ND		5.0	
Carbon Tetrachloride	ND		5.0	
1,2-Dichloroethane	ND		5.0	
1,2-Dichloropropane	ND		5.0	
Bromodichloromethane	ND		5.0	
Dibromomethane	ND		5.0	
4-Methyl-2-Pentanone	ND		10	
Tetramethyl THF	ND		5.0	
cis-1,3-Dichloropropene	ND		5.0	
trans-1,3-Dichloropropene	ND		5.0	
1,1,2-Trichloroethane	ND		5.0	
2-Hexanone	ND		10	
1,3-Dichloropropane	ND		5.0	
Tetrachloroethene	ND		5.0	
Dibromochloromethane	ND		5.0	
1,2-Dibromoethane	ND		5.0	
1,1,1,2-Tetrachloroethane	ND		5.0	
Ethylbenzene	ND		5.0	
m,p-Xylenes	ND		5.0	
o-Xylene	ND		5.0	

!=warning +=high bias c=CCV v=ICV

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA03	Samplenum:	QC267389	Cident	:
Seqnum	: 424406706006	Matrix	: Soil	Acctnum	: QC
Filename	: cj806	Batchnum	: 95297	Injected	: 08-OCT-2004 13:15
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
Calnum	: 424385122001	Caldate	: 23-SEP-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	Flags
Styrene	ND		5.0	
Bromoform	ND		5.0	
Isopropylbenzene	ND		5.0	
1,1,2,2-Tetrachloroethane	ND		5.0	
1,2,3-Trichloropropane	ND		5.0	
Propylbenzene	ND		5.0	
Bromobenzene	ND		5.0	
1,3,5-Trimethylbenzene	ND		5.0	
2-Chlorotoluene	ND		5.0	
4-Chlorotoluene	ND		5.0	
tert-Butylbenzene	ND		5.0	
1,2,4-Trimethylbenzene	ND		5.0	
sec-Butylbenzene	ND		5.0	
para-Isopropyl Toluene	ND		5.0	
1,3-Dichlorobenzene	ND		5.0	
1,4-Dichlorobenzene	ND		5.0	
n-Butylbenzene	ND		5.0	
1,2-Dichlorobenzene	ND		5.0	
1,2-Dibromo-3-Chloropropane	ND		5.0	
1,2,4-Trichlorobenzene	ND		5.0	
Hexachlorobutadiene	ND		5.0	
Naphthalene	ND		5.0	
1,2,3-Trichlorobenzene	ND		5.0	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	50.00	47.81	96	79-120	
1,2-Dichloroethane-d4	50.00	48.93	98	80-120	
Toluene-d8	50.00	48.15	96	80-120	
Bromofluorobenzene	50.00	54.92	110	80-121	
Trifluorotoluene	NS	ND	--	60-140	

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	970759	6.03	9.39	9.38	-0.01
1,4-Difluorobenzene	1223395	1302144	6.44	10.88	10.87	-0.01
Chlorobenzene-d5	1036441	1047023	1.02	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	570654	-4.88	20.18	20.18	0.00

!=warning +=high bias c=CCV v=ICV

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ806.D
Report Date: 08-Oct-2004 14:14

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ806.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 13:15 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : MB,QC267389
Misc Info : 95297,5.0/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
7 Acetone	43	5.994	5.993	(0.639)	5481	2.20345	2.2034
* 20 Pentafluorobenzene	168	9.377	9.387	(1.000)	970759	50.0000	
$ 22 Dibromofluoromethane	113	9.486	9.485	(1.012)	552375	47.8115	47.8114
$ 25 1,2-Dichloroethane-d4	65	10.213	10.223	(0.939)	616568	48.9324	48.9323
* 29 1,4-Difluorobenzene	114	10.872	10.872	(1.000)	1302144	50.0000	
$ 38 Toluene-d8	98	13.361	13.370	(1.229)	1277932	48.1540	48.1540
* 47 Chlorobenzene-d5	117	15.889	15.898	(1.000)	1047023	50.0000	
$ 57 Bromofluorobenzene	95	18.004	18.013	(0.892)	624690	54.9155	54.9154
* 69 1,4-Dichlorobenzene-d4	152	20.177	20.177	(1.000)	570654	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ806.D
Report Date: 08-Oct-2004 14:14

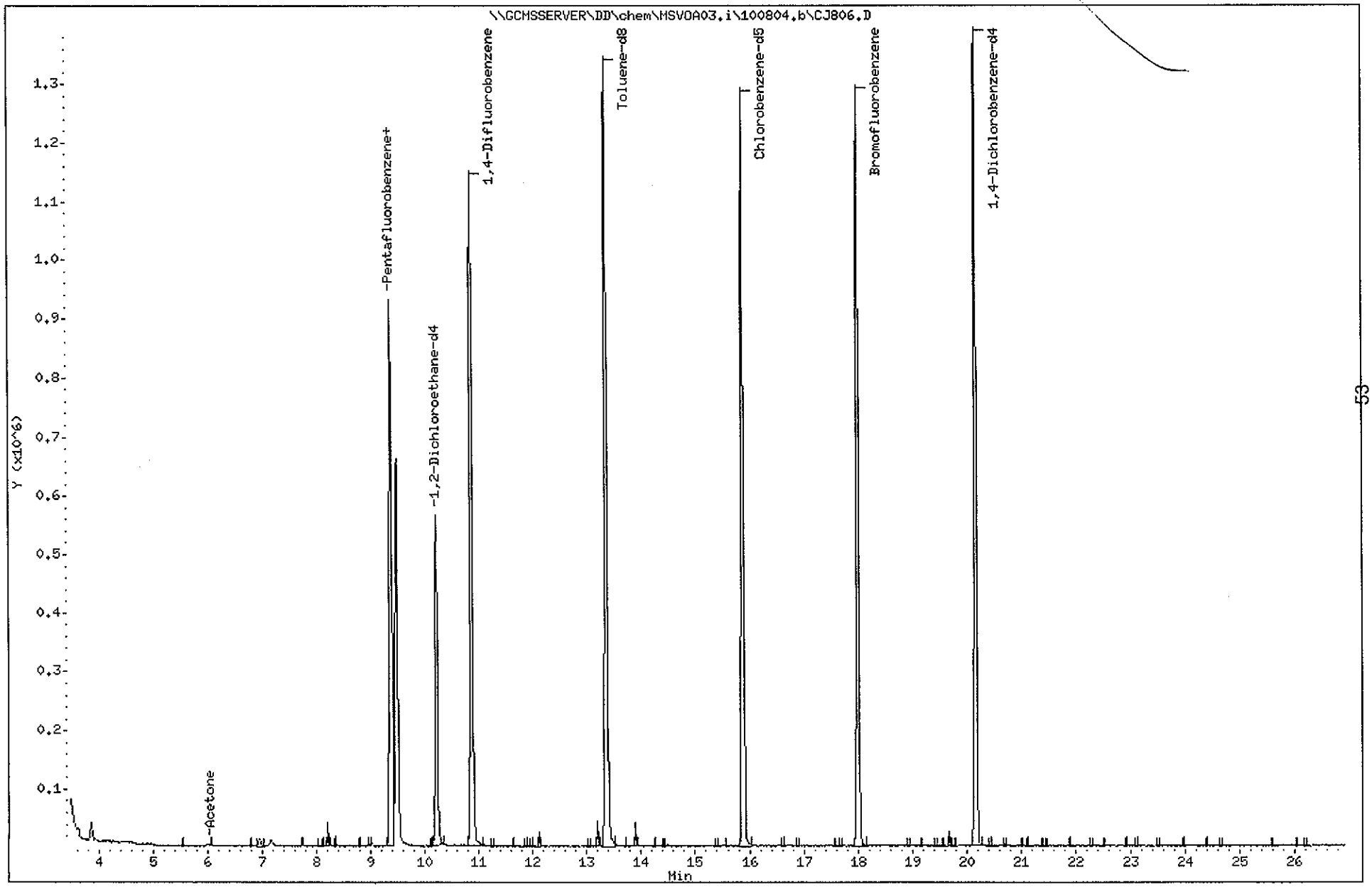
Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ806.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 13:15 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : MB,QC267389
Misc Info : 95297,5.0/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ806.D
Date : 08-OCT-2004 13:15
Client ID: DYNA P&T
Sample Info: MB,QC267389
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ806.D

Date : 08-OCT-2004 13:15

Client ID: DYNA P&T

Instrument: MSVOA03.i

Sample Info: MB,QC267389

Purge Volume: 5.0

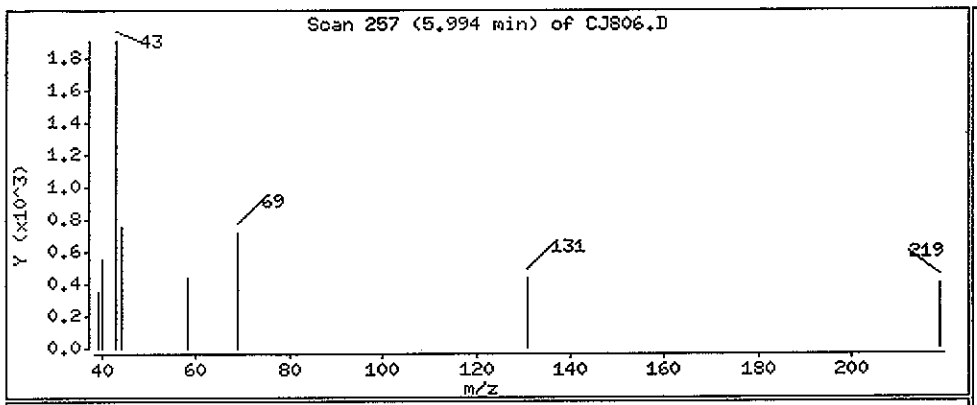
Operator: tw

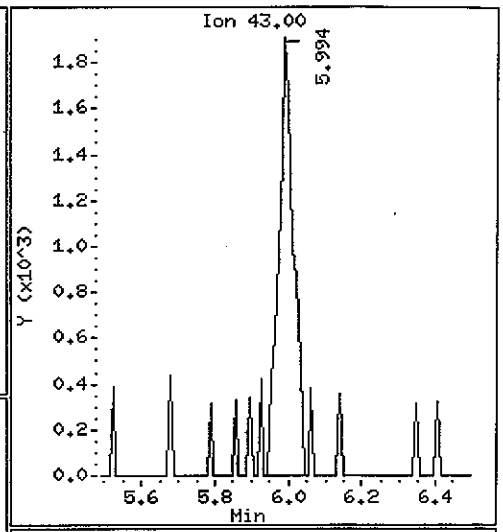
Column phase: RTx Volatiles

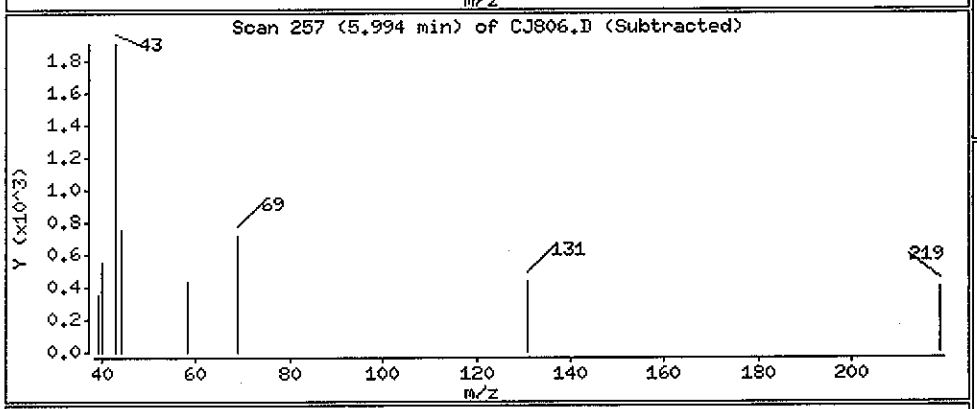
Column diameter: 0.32

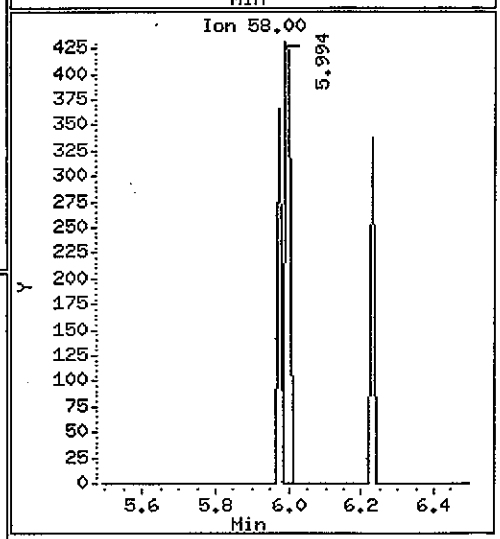
7 Acetone

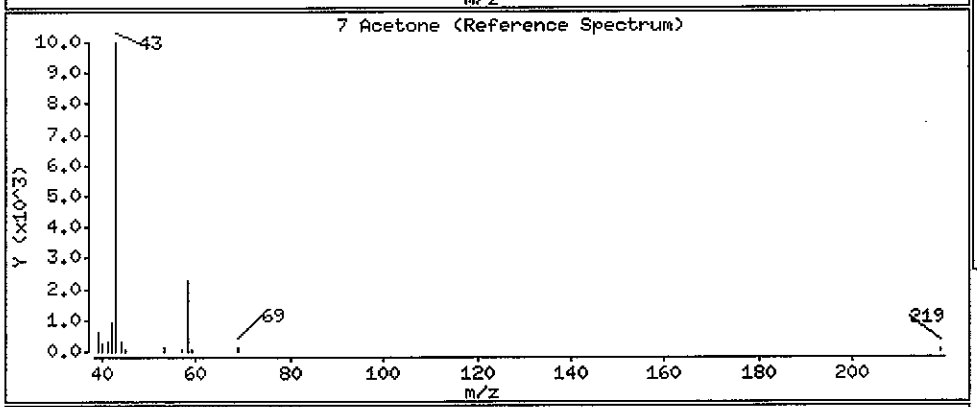
Concentration: 2.2034 UG/L

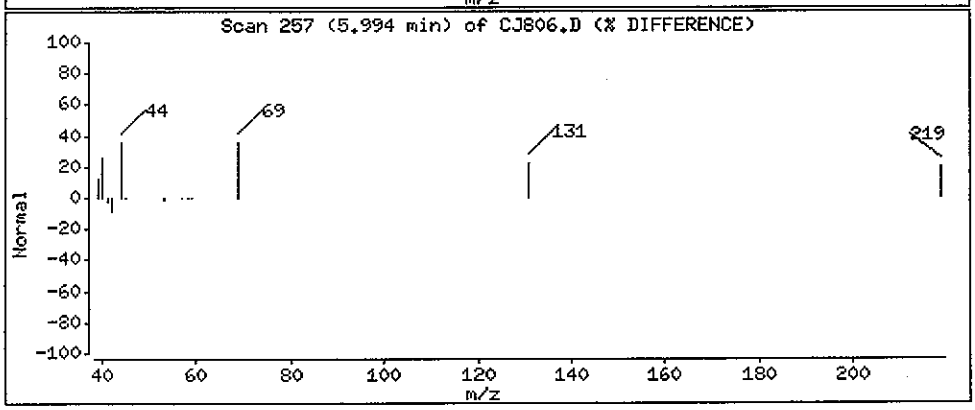












SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA03
Seqnum : 424406706004
Filename : cj804
IDF : 1.0
PDF : 1.0
Run type : LCS
Samplenum: QC267388
Matrix : Soil
Batchnum : 95297
Inj : 08-OCT-2004 12:08
Caltype : SOIL

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
1,1-Dichloroethene	50.00	55.57	111	76-121	ug/Kg	
Benzene	50.00	55.22	110	80-120	ug/Kg	
Trichloroethene	50.00	54.67	109	80-120	ug/Kg	
Toluene	50.00	55.64	111	80-120	ug/Kg	
Chlorobenzene	50.00	52.42	105	80-120	ug/Kg	
Freon 12	50.00	38.16	76	34-120	ug/Kg	!c+
Chloromethane	50.00	39.44	79	44-120	ug/Kg	
Vinyl Chloride	50.00	34.67	69	42-122	ug/Kg	
Bromomethane	50.00	48.87	98	53-141	ug/Kg	
Chloroethane	50.00	46.09	92	56-125	ug/Kg	
Trichlorofluoromethane	50.00	56.82	114	66-138	ug/Kg	!v+
Acetone	50.00	72.46	145	56-173	ug/Kg	c+ b*
Freon 113	50.00	64.61	129	80-129	ug/Kg	!v+
Methylene Chloride	50.00	51.75	104	70-120	ug/Kg	
MTBE	50.00	56.56	113	76-127	ug/Kg	
Carbon Disulfide	50.00	55.39	111	70-127	ug/Kg	!c+
trans-1,2-Dichloroethene	50.00	55.61	111	75-120	ug/Kg	
Vinyl Acetate	50.00	52.37	105	45-120	ug/Kg	
1,1-Dichloroethane	50.00	58.02	116	69-122	ug/Kg	
2-Butanone	50.00	60.19	120	60-145	ug/Kg	!c+
cis-1,2-Dichloroethene	50.00	54.53	109	76-120	ug/Kg	
2,2-Dichloropropane	50.00	56.44	113	76-130	ug/Kg	
Chloroform	50.00	52.27	105	73-120	ug/Kg	
Bromochloromethane	50.00	51.20	102	76-120	ug/Kg	
1,1,1-Trichloroethane	50.00	55.25	110	76-127	ug/Kg	
1,1-Dichloropropene	50.00	56.13	112	80-122	ug/Kg	
Carbon Tetrachloride	50.00	54.73	109	80-127	ug/Kg	
1,2-Dichloroethane	50.00	51.53	103	76-120	ug/Kg	
1,2-Dichloropropane	50.00	56.80	114	74-120	ug/Kg	
Bromodichloromethane	50.00	54.11	108	80-127	ug/Kg	
Dibromomethane	50.00	51.16	102	80-120	ug/Kg	
4-Methyl-2-Pentanone	50.00	58.80	118	67-130	ug/Kg	
cis-1,3-Dichloropropene	50.00	55.67	111	80-121	ug/Kg	
trans-1,3-Dichloropropene	50.00	52.47	105	80-120	ug/Kg	
1,1,2-Trichloroethane	50.00	54.59	109	80-120	ug/Kg	
2-Hexanone	50.00	58.39	117	67-135	ug/Kg	
1,3-Dichloropropane	50.00	53.77	108	75-120	ug/Kg	
Tetrachloroethene	50.00	55.11	110	80-127	ug/Kg	
Dibromochloromethane	50.00	50.73	101	78-120	ug/Kg	

!=warning +=high bias b=noncompliant c=CCV v=ICV

k 10/8/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA03
Seqnum : 424406706004
Filename : cj804
IDF : 1.0
PDF : 1.0
Run type : LCS
Samplenum: QC267388
Matrix : Soil
Batchnum : 95297
Inj : 08-OCT-2004 12:08
Caltype : SOIL

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
1,2-Dibromoethane	50.00	52.77	106	80-120	ug/Kg	
1,1,1,2-Tetrachloroethane	50.00	50.78	102	80-120	ug/Kg	
Ethylbenzene	50.00	55.42	111	80-120	ug/Kg	
m,p-Xylenes	100.0	106.6	107	80-120	ug/Kg	
o-Xylene	50.00	53.05	106	80-120	ug/Kg	
Styrene	50.00	54.38	109	80-121	ug/Kg	
Bromoform	50.00	54.38	109	80-125	ug/Kg	
Isopropylbenzene	50.00	50.61	101	72-120	ug/Kg	
1,1,2,2-Tetrachloroethane	50.00	55.06	110	66-120	ug/Kg	
1,2,3-Trichloropropane	50.00	52.32	105	69-120	ug/Kg	
Propylbenzene	50.00	55.89	112	79-121	ug/Kg	
Bromobenzene	50.00	52.01	104	76-120	ug/Kg	
1,3,5-Trimethylbenzene	50.00	53.54	107	77-121	ug/Kg	
2-Chlorotoluene	50.00	56.42	113	77-120	ug/Kg	
4-Chlorotoluene	50.00	53.94	108	77-120	ug/Kg	
tert-Butylbenzene	50.00	53.66	107	79-123	ug/Kg	
1,2,4-Trimethylbenzene	50.00	52.13	104	76-124	ug/Kg	
sec-Butylbenzene	50.00	54.20	108	80-122	ug/Kg	
para-Isopropyl Toluene	50.00	50.41	101	78-120	ug/Kg	
1,3-Dichlorobenzene	50.00	52.84	106	80-120	ug/Kg	
1,4-Dichlorobenzene	50.00	53.31	107	80-120	ug/Kg	
n-Butylbenzene	50.00	52.08	104	74-130	ug/Kg	
1,2-Dichlorobenzene	50.00	52.44	105	80-120	ug/Kg	
1,2-Dibromo-3-Chloropropane	50.00	58.34	117	68-126	ug/Kg	
1,2,4-Trichlorobenzene	50.00	47.26	95	70-139	ug/Kg	
Hexachlorobutadiene	50.00	56.32	113	80-134	ug/Kg	
Naphthalene	50.00	47.49	95	59-140	ug/Kg	
1,2,3-Trichlorobenzene	50.00	49.08	98	69-136	ug/Kg	
Dibromofluoromethane	50.00	48.45	97	79-120	ug/Kg	
1,2-Dichloroethane-d4	50.00	48.09	96	80-120	ug/Kg	
Toluene-d8	50.00	50.26	101	80-120	ug/Kg	
Bromofluorobenzene	50.00	53.14	106	80-121	ug/Kg	

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	880058	-3.88	9.39	9.38	-0.01
1,4-Difluorobenzene	1223395	1201847	-1.76	10.88	10.87	-0.01
Chlorobenzene-d5	1036441	1016875	-1.89	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	592432	-1.25	20.18	20.18	0.00

!=warning +=high bias b=noncompliant c=CCV v=ICV
Page 2 of 2

6/8/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ804.D
Report Date: 08-Oct-2004 13:07

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ804.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 12:08 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : LCS,QC267388,95297,5.0/5
Misc Info : 04WS1726,5000X,04WS1554,5000X, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.604	3.603	(0.384)	309157	38.1611	38.1611
2 Chloromethane	50	4.037	4.036	(0.430)	339533	39.4400	39.4400
3 Vinyl Chloride	62	4.165	4.174	(0.444)	195285	34.6712	34.6712
4 Bromomethane	94	4.843	4.852	(0.516)	201860	48.8710	48.8710
5 Chloroethane	64	4.971	4.980	(0.530)	180739	46.0907	46.0907
6 Trichlorofluoromethane	101	5.434	5.442	(0.579)	706424	56.8199	56.8199
7 Acetone	43	5.994	5.993	(0.639)	163418	72.4619	72.4619
8 Freon 113	101	6.142	6.151	(0.655)	394911	64.6118	64.6117
9 1,1-Dichloroethene	96	6.329	6.328	(0.675)	297520	55.5745	55.5745
10 Methylene Chloride	84	6.948	6.967	(0.741)	392689	51.7533	51.7533
11 Carbon Disulfide	76	7.056	7.065	(0.752)	1015786	55.3894	55.3894
12 MTBE	73	7.302	7.302	(0.779)	1059426	56.5624	56.5623
13 trans-1,2-Dichloroethene	96	7.470	7.479	(0.797)	366564	55.6145	55.6144
14 Vinyl Acetate	43	8.011	8.020	(0.854)	617070	52.3743	52.3742
15 1,1-Dichloroethane	63	8.050	8.049	(0.858)	691203	58.0237	58.0236
16 2-Butanone	43	8.591	8.600	(0.916)	189679	60.1916	60.1915

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ804.D
Report Date: 08-Oct-2004 13:07

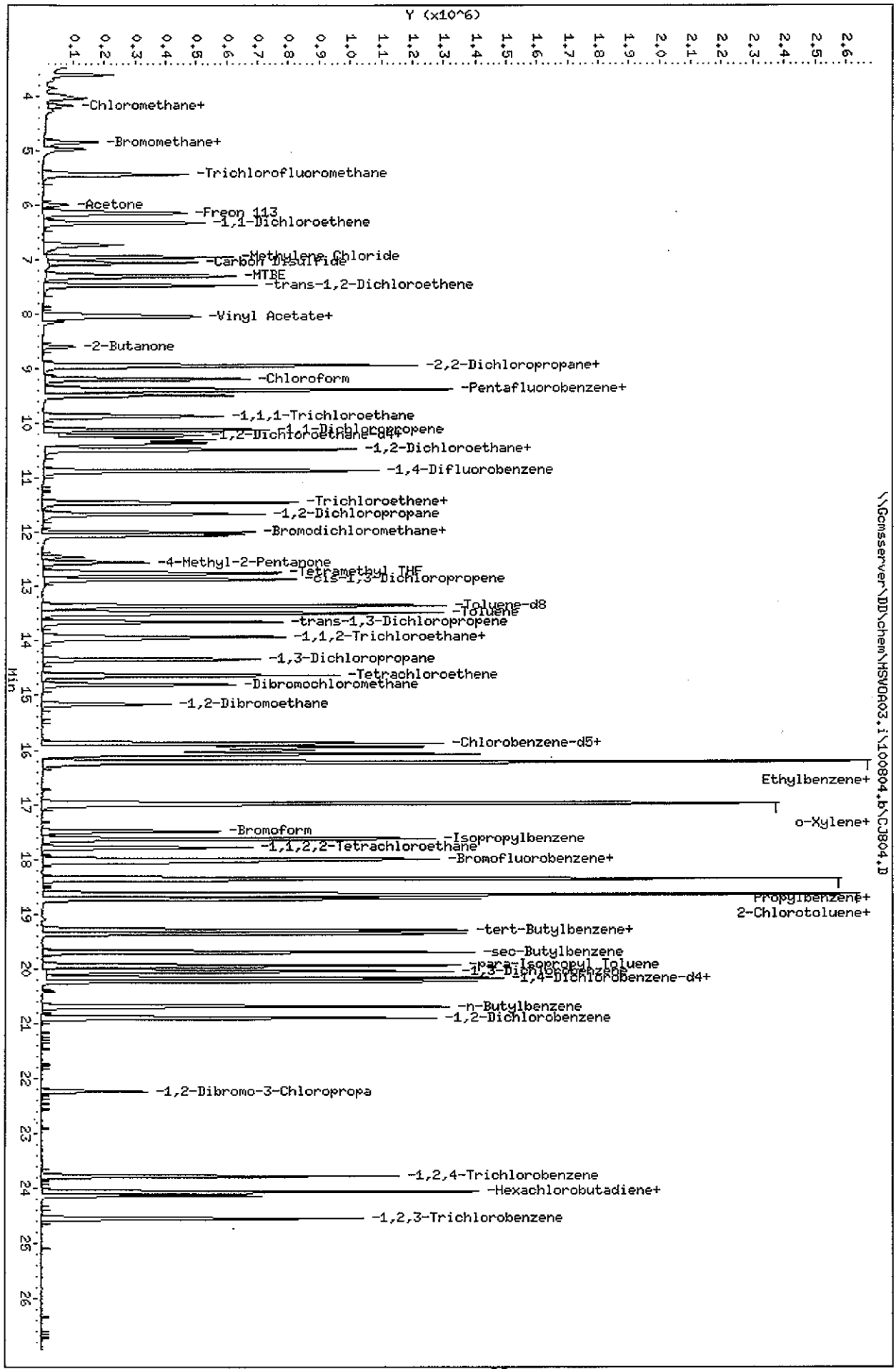
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 2,2-Dichloropropane	77	8.945	8.944	(0.954)	572123	56.4436	56.4436
	18 cis-1,2-Dichloroethene	96	8.945	8.944	(0.954)	405851	54.5343	54.5343
	19 Chloroform	83	9.191	9.190	(0.980)	766132	52.2665	52.2664
*	20 Pentafluorobenzene	168	9.378	9.387	(1.000)	880058	50.0000	
	21 Bromochloromethane	128	9.388	9.397	(1.001)	229354	51.1955	51.1955
$	22 Dibromofluoromethane	113	9.486	9.485	(1.012)	507502	48.4547	48.4547
	23 1,1,1-Trichloroethane	97	9.870	9.869	(1.052)	612367	55.2470	55.2470
	24 1,1-Dichloropropene	75	10.115	10.124	(0.930)	503483	56.1349	56.1348
$	25 1,2-Dichloroethane-d4	65	10.214	10.223	(0.939)	559301	48.0918	48.0917
	26 Carbon Tetrachloride	117	10.292	10.301	(0.947)	547166	54.7252	54.7252
	27 1,2-Dichloroethane	62	10.361	10.361	(0.953)	641007	51.5284	51.5284
	28 Benzene	78	10.479	10.479	(0.964)	1284995	55.2240	55.2239
*	29 1,4-Difluorobenzene	114	10.873	10.872	(1.000)	1201847	50.0000	
	30 Trichloroethene	95	11.453	11.462	(1.053)	415154	54.6651	54.6650
$	31 Trifluorotoluene	146	11.532	11.541	(1.061)	1281	0.12469	0.1246
	32 1,2-Dichloropropane	63	11.670	11.669	(1.073)	361467	56.8037	56.8037
	33 Bromodichloromethane	83	12.004	12.003	(1.104)	627258	54.1064	54.1063
	34 Dibromomethane	93	12.053	12.062	(1.109)	363485	51.1630	51.1630
	35 4-Methyl-2-Pentanone	43	12.555	12.554	(1.155)	386233	58.7955	58.7954
	36 Tetramethyl THF	43	12.752	12.761	(1.173)	764261	53.0607	53.0606
	37 cis-1,3-Dichloropropene	75	12.870	12.879	(1.184)	626509	55.6729	55.6729
$	38 Toluene-d8	98	13.361	13.370	(1.229)	1231110	50.2610	50.2610
	39 Toluene	92	13.489	13.498	(1.241)	809462	55.6417	55.6416
	40 trans-1,3-Dichloropropene	75	13.656	13.665	(1.256)	566530	52.4735	52.4734
	41 1,1,2-Trichloroethane	83	13.932	13.931	(1.281)	316247	54.5894	54.5894
	42 2-Hexanone	43	13.971	13.980	(0.879)	305266	58.3917	58.3917
	43 1,3-Dichloropropane	76	14.345	14.354	(0.903)	558038	53.7666	53.7666
	44 Tetrachloroethene	166	14.640	14.649	(0.921)	452172	55.1114	55.1113
	45 Dibromochloromethane	129	14.807	14.816	(0.932)	465913	50.7325	50.7324
	46 1,2-Dibromoethane	107	15.161	15.170	(1.394)	410450	52.7655	52.7655
*	47 Chlorobenzene-d5	117	15.889	15.898	(1.000)	1016875	50.0000	
	48 Chlorobenzene	112	15.958	15.957	(1.004)	951763	52.4196	52.4196
	49 1,1,1,2-Tetrachloroethane	131	16.007	16.016	(1.007)	379921	50.7775	50.7774
	50 Ethylbenzene	91	16.086	16.085	(1.012)	1644756	55.4199	55.4198
	51 m,p-Xylenes	106	16.224	16.233	(1.021)	1087342	106.611	106.6111
	52 o-Xylene	106	16.981	16.990	(1.069)	546611	53.0474	53.0473
	53 Styrene	104	17.001	17.010	(1.070)	980426	54.3796	54.3795
	54 Bromoform	173	17.502	17.501	(1.102)	426271	54.3770	54.3770
	55 Isopropylbenzene	105	17.640	17.639	(0.874)	1325889	50.6139	50.6138
	56 1,1,2,2-Tetrachloroethane	83	17.788	17.797	(0.882)	535194	55.0579	55.0578
$	57 Bromofluorobenzene	95	18.004	18.013	(0.892)	627566	53.1404	53.1403
	58 1,2,3-Trichloropropane	110	18.053	18.062	(0.895)	133578	52.3163	52.3162
	59 Propylbenzene	91	18.358	18.367	(0.910)	1877669	55.8902	55.8902
	60 Bromobenzene	156	18.368	18.367	(0.910)	474257	52.0112	52.0112
	61 2-Chlorotoluene	91	18.643	18.652	(0.924)	1370655	56.4182	56.4181
	62 1,3,5-Trimethylbenzene	105	18.653	18.652	(0.924)	1220936	53.5407	53.5407
	63 4-Chlorotoluene	91	18.732	18.741	(0.928)	1269661	53.9426	53.9425

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ804.D
Report Date: 08-Oct-2004 13:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 tert-Butylbenzene	119	19.302	19.311	(0.957)	1140773	53.6589	53.6589
65 1,2,4-Trimethylbenzene	105	19.361	19.370	(0.960)	1182567	52.1279	52.1279
66 sec-Butylbenzene	105	19.706	19.705	(0.977)	1554944	54.2005	54.2005
67 para-Isopropyl Toluene	119	19.942	19.951	(0.988)	1167282	50.4080	50.4079
68 1,3-Dichlorobenzene	146	20.060	20.059	(0.994)	832662	52.8440	52.8439
* 69 1,4-Dichlorobenzene-d4	152	20.178	20.177	(1.000)	592432	50.0000	
70 1,4-Dichlorobenzene	146	20.237	20.236	(1.003)	855500	53.3116	53.3115
71 n-Butylbenzene	91	20.699	20.698	(1.026)	1178899	52.0821	52.0820
72 1,2-Dichlorobenzene	146	20.906	20.905	(1.036)	796200	52.4447	52.4447
73 1,2-Dibromo-3-Chloropropane	75	22.243	22.252	(1.102)	121773	58.3395	58.3395
74 1,2,4-Trichlorobenzene	180	23.788	23.787	(1.179)	453730	47.2580	47.2579
75 Hexachlorobutadiene	225	24.073	24.072	(1.193)	407266	56.3221	56.3220
76 Naphthalene	128	24.142	24.151	(1.196)	693185	47.4854	47.4853
77 1,2,3-Trichlorobenzene	180	24.565	24.564	(1.217)	449967	49.0752	49.0752

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\100804.b\CJ804.D
Date : 08-OCT-2004 12:08
Client ID: DYNA P&T
Sample Info: LCS,QC267388,95297,5.0/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA03	Instid : MSVOA03	Instid : MSVOA03
Seqnum : 424406706007	Seqnum : 424406706014	Seqnum : 424406706015
Filename : cj807	Filename : cj814	Filename : cj815
IDF : 1.0	IDF : 1.0	IDF : 1.0
PDF : 1.0	PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 175141-001	Samplenum: QC267390	Samplenum: QC267391
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95297	Batchnum : 95297	Batchnum : 95297
Inj : 08-OCT-2004 13:49	Inj : 08-OCT-2004 17:47	Inj : 08-OCT-2004 18:20
Caltype : SOIL	Caltype : SOIL	Caltype : SOIL

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,1-Dichloroethene	ND	50.00	52.05	104	51.40	103	66-120	ug/Kg	1	20	
Benzene	ND	50.00	51.34	103	50.32	101	67-120	ug/Kg	2	20	
Trichloroethene	ND	50.00	51.11	102	50.14	100	60-129	ug/Kg	2	20	
Toluene	ND	50.00	51.16	102	50.51	101	59-120	ug/Kg	1	20	
Chlorobenzene	ND	50.00	47.75	96	45.64	91	56-120	ug/Kg	5	20	
MTBE	ND	50.00	52.88	106	51.51	103	71-120	ug/Kg	3	20	
Dibromofluoromethane		50.00	49.69	99	49.24	98	79-120	ug/Kg	--		
1,2-Dichloroethane-d4		50.00	52.62	105	52.75	105	80-120	ug/Kg	--		
Toluene-d8		50.00	48.34	97	49.98	100	80-120	ug/Kg	--		
Bromofluorobenzene		50.00	50.86	102	52.14	104	80-121	ug/Kg	--		

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	890391	-2.75	9.39	9.38	-0.01
1,4-Difluorobenzene	1223395	1169157	-4.43	10.88	10.88	0.00
Chlorobenzene-d5	1036441	978757	-5.57	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	576526	-3.90	20.18	20.18	0.00

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	923906	0.91	9.39	9.38	-0.01
1,4-Difluorobenzene	1223395	1224173	0.06	10.88	10.87	-0.01
Chlorobenzene-d5	1036441	1046670	0.99	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	599515	-0.07	20.18	20.18	0.00

10/11/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ814.D
Report Date: 08-Oct-2004 18:46

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ814.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 08-OCT-2004 17:47 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : MS,QC267390,95297,5.0/5
Misc Info : 04WS1726,5000X,04WS1554,5000X, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.599	3.603	(0.384)	350665	42.7824	42.7824
2 Chloromethane	50	4.041	4.036	(0.431)	339095	38.9320	38.9319
3 Vinyl Chloride	62	4.169	4.174	(0.444)	218430	38.3304	38.3303
4 Bromomethane	94	4.838	4.852	(0.516)	203518	48.7008	48.7007
5 Chloroethane	64	4.976	4.980	(0.530)	176871	44.5809	44.5808
6 Trichlorofluoromethane	101	5.438	5.442	(0.580)	712938	56.6785	56.6784
7 Acetone	43	5.998	5.993	(0.639)	116117	50.8908	50.8907
8 Freon 113	101	6.136	6.151	(0.654)	391765	63.3532	63.3532
9 1,1-Dichloroethene	96	6.323	6.328	(0.674)	281929	52.0511	52.0510
10 Methylene Chloride	84	6.953	6.967	(0.741)	376814	49.0848	49.0847
11 Carbon Disulfide	76	7.061	7.065	(0.753)	907256	48.8973	48.8973
12 MTBE	73	7.307	7.302	(0.779)	1001997	52.8755	52.8754
13 trans-1,2-Dichloroethene	96	7.474	7.479	(0.797)	335830	50.3604	50.3603
14 Vinyl Acetate	43	8.153	8.020	(0.869)	30014	2.51795	2.5179
15 1,1-Dichloroethane	63	8.054	8.049	(0.858)	600951	49.8620	49.8620
16 2-Butanone	43	8.595	8.600	(0.916)	161790	50.7457	50.7456

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ814.D
Report Date: 08-Oct-2004 18:46

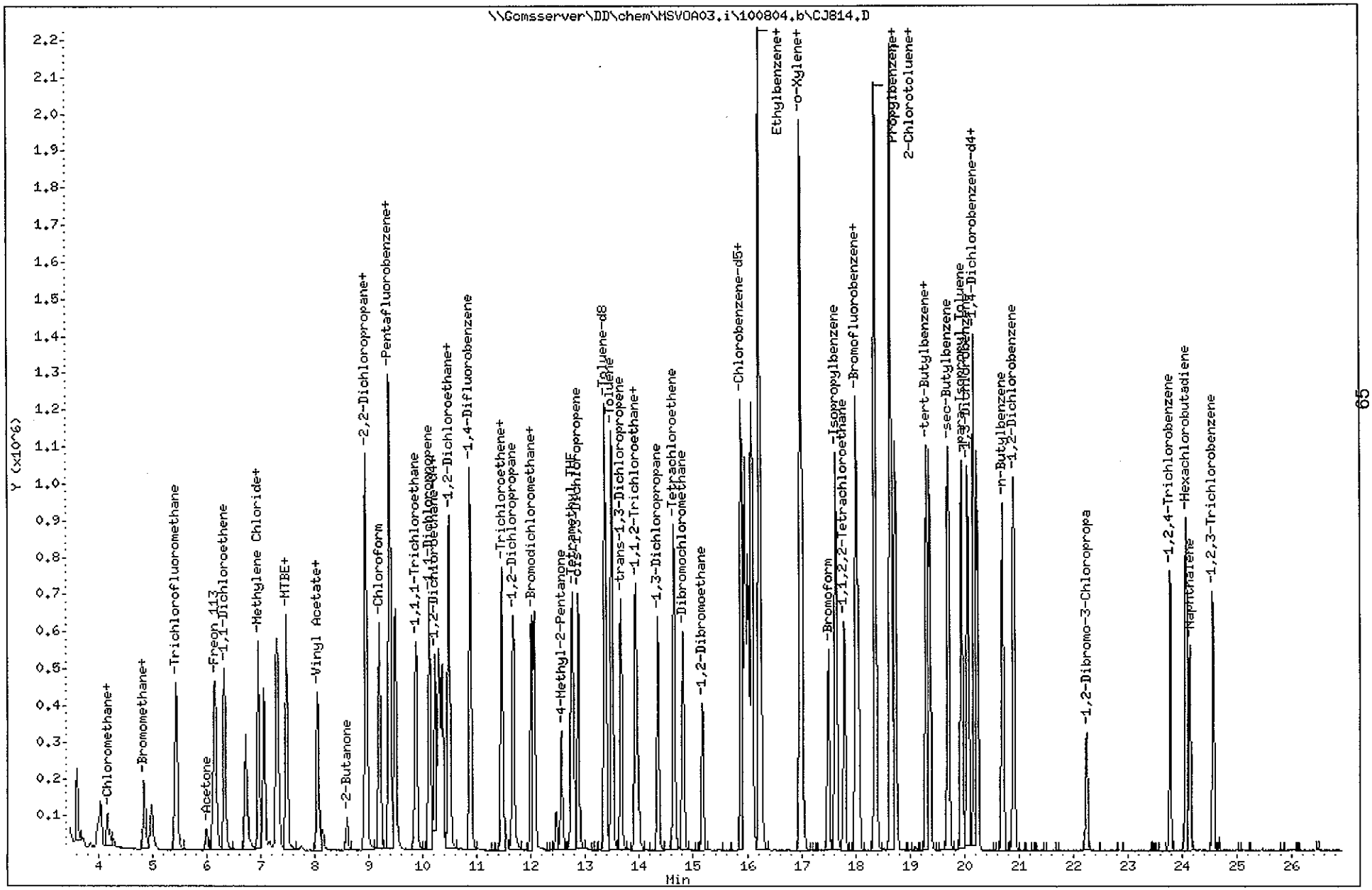
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 2,2-Dichloropropane	77	8.940	8.944	(0.953)	506593	49.3987	49.3986
	18 cis-1,2-Dichloroethene	96	8.949	8.944	(0.954)	366999	48.7415	48.7415
	19 Chloroform	83	9.195	9.190	(0.980)	713436	48.1067	48.1066
*	20 Pentafluorobenzene	168	9.382	9.387	(1.000)	890391	50.0000	
	21 Bromochloromethane	128	9.402	9.397	(1.002)	222604	49.1123	49.1122
$	22 Dibromofluoromethane	113	9.490	9.485	(1.012)	526544	49.6894	49.6894
	23 1,1,1-Trichloroethane	97	9.874	9.869	(1.052)	587477	52.3865	52.3864
	24 1,1-Dichloropropene	75	10.120	10.124	(0.930)	457810	52.4698	52.4698
$	25 1,2-Dichloroethane-d4	65	10.228	10.223	(0.940)	595273	52.6160	52.6159
	26 Carbon Tetrachloride	117	10.297	10.301	(0.947)	537201	55.2308	55.2308
	27 1,2-Dichloroethane	62	10.366	10.361	(0.953)	612450	50.6094	50.6093
	28 Benzene	78	10.484	10.479	(0.964)	1162073	51.3376	51.3376
*	29 1,4-Difluorobenzene	114	10.877	10.872	(1.000)	1169157	50.0000	
	30 Trichloroethene	95	11.457	11.462	(1.053)	377567	51.1059	51.1058
$	31 Trifluorotoluene	146	11.536	11.541	(1.061)	20191	2.01997	2.0199
	32 1,2-Dichloropropane	63	11.674	11.669	(1.073)	309226	49.9528	49.9528
	33 Bromodichloromethane	83	12.008	12.003	(1.104)	579750	51.4067	51.4066
	34 Dibromomethane	93	12.057	12.062	(1.109)	343712	49.7325	49.7325
	35 4-Methyl-2-Pentanone	43	12.559	12.554	(1.155)	342901	53.6587	53.6586
	36 Tetramethyl THF	43	12.756	12.761	(1.173)	661698	47.2245	47.2245
	37 cis-1,3-Dichloropropene	75	12.874	12.879	(1.184)	534595	48.8335	48.8335
$	38 Toluene-d8	98	13.366	13.370	(1.229)	1151853	48.3401	48.3401
	39 Toluene	92	13.494	13.498	(1.241)	723976	51.1569	51.1568
	40 trans-1,3-Dichloropropene	75	13.661	13.665	(1.256)	486516	46.3223	46.3223
	41 1,1,2-Trichloroethane	83	13.936	13.931	(1.281)	288372	51.1697	51.1696
	42 2-Hexanone	43	13.976	13.980	(0.879)	244570	48.6038	48.6037
	43 1,3-Dichloropropane	76	14.349	14.354	(0.903)	504258	50.4771	50.4771
	44 Tetrachloroethene	166	14.644	14.649	(0.921)	411991	52.1696	52.1695
	45 Dibromochloromethane	129	14.812	14.816	(0.932)	449345	50.8340	50.8339
	46 1,2-Dibromoethane	107	15.166	15.170	(1.394)	382883	50.5978	50.5977
*	47 Chlorobenzene-d5	117	15.894	15.898	(1.000)	978757	50.0000	
	48 Chlorobenzene	112	15.962	15.957	(1.004)	834481	47.7501	47.7501
	49 1,1,1,2-Tetrachloroethane	131	16.021	16.016	(1.008)	354003	49.1561	49.1560
	50 Ethylbenzene	91	16.090	16.085	(1.012)	1420443	49.7257	49.7256
	51 m,p-Xylenes	106	16.238	16.233	(1.022)	956179	97.4021	97.4021
	52 o-Xylene	106	16.985	16.990	(1.069)	470406	47.4297	47.4297
	53 Styrene	104	17.005	17.010	(1.070)	820649	47.2903	47.2902
	54 Bromoform	173	17.507	17.501	(1.101)	402145	53.2973	53.2972
	55 Isopropylbenzene	105	17.635	17.639	(0.874)	1149565	45.0937	45.0936
	56 1,1,2,2-Tetrachloroethane	83	17.792	17.797	(0.882)	481022	50.8503	50.8502
$	57 Bromofluorobenzene	95	18.008	18.013	(0.892)	584469	50.8565	50.8565
	58 1,2,3-Trichloropropane	110	18.057	18.062	(0.895)	128860	51.8611	51.8610
	59 Propylbenzene	91	18.362	18.367	(0.910)	1503872	45.9989	45.9989
	60 Bromobenzene	156	18.362	18.367	(0.910)	420065	47.3391	47.3390
	61 2-Chlorotoluene	91	18.648	18.652	(0.924)	1128731	47.7421	47.7420
	62 1,3,5-Trimethylbenzene	105	18.657	18.652	(0.924)	1032536	46.5282	46.5282
	63 4-Chlorotoluene	91	18.736	18.741	(0.928)	1005879	43.9147	43.9146

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ814.D
Report Date: 08-Oct-2004 18:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 tert-Butylbenzene	119	19.307	19.311	(0.957)	912436	44.1027	44.1027
65 1,2,4-Trimethylbenzene	105	19.366	19.370	(0.960)	976275	44.2219	44.2218
66 sec-Butylbenzene	105	19.710	19.705	(0.977)	1218234	43.6354	43.6354
67 para-Isopropyl Toluene	119	19.946	19.951	(0.988)	897022	39.8058	39.8057
68 1,3-Dichlorobenzene	146	20.064	20.059	(0.994)	665244	43.3838	43.3838
* 69 1,4-Dichlorobenzene-d4	152	20.182	20.177	(1.000)	576526	50.0000	
70 1,4-Dichlorobenzene	146	20.241	20.236	(1.003)	659703	42.2445	42.2444
71 n-Butylbenzene	91	20.694	20.698	(1.025)	844273	38.3279	38.3278
72 1,2-Dichlorobenzene	146	20.910	20.905	(1.036)	639088	43.2574	43.2573
73 1,2-Dibromo-3-Chloropropane	75	22.238	22.252	(1.102)	114739	56.4865	56.4864
74 1,2,4-Trichlorobenzene	180	23.782	23.787	(1.178)	309674	33.1438	33.1437
75 Hexachlorobutadiene	225	24.067	24.072	(1.193)	265126	37.6767	37.6766
76 Naphthalene	128	24.146	24.151	(1.196)	539286	37.9621	37.9620
77 1,2,3-Trichlorobenzene	180	24.569	24.564	(1.217)	297844	33.3803	33.3803

Data File: \\Gomsserver\DD\chem\MSVOA03.i\100804.b\CJ814.D
Date : 08-OCT-2004 17:47
Client ID: DYNA P&T
Sample Info: MS,QC267390,95297,5.0/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ815.D
Report Date: 08-Oct-2004 19:19

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ815.D
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Inj Date : 08-OCT-2004 18:20 — Client Smp ID: DYNA P&T
Operator : tw — MS Autotune Date: 08-AUG-1996 10:00
Smp Info : MSD,QC267391,95297,5.0/5 — Inst ID: MSVOA03.i
Misc Info : 04WS1726,5000X,04WS1554,5000X, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc — Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 — Cal File: CIN20.D
Als bottle: 15 — QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.606	3.603	(0.384)	272458	32.0350	32.0350
2 Chloromethane	50	4.039	4.036	(0.431)	311857	34.5060	34.5059
3 Vinyl Chloride	62	4.167	4.174	(0.444)	195593	33.0780	33.0779
4 Bromomethane	94	4.845	4.852	(0.517)	181182	41.7832	41.7832
5 Chloroethane	64	4.973	4.980	(0.530)	161256	39.1706	39.1705
6 Trichlorofluoromethane	101	5.435	5.442	(0.579)	658495	50.4513	50.4512
7 Acetone	43	5.996	5.993	(0.639)	118484	50.0443	50.0442
8 Freon 113	101	6.144	6.151	(0.655)	385044	60.0077	60.0076
9 1,1-Dichloroethene	96	6.330	6.328	(0.675)	288885	51.4006	51.4006
10 Methylene Chloride	84	6.950	6.967	(0.741)	381783	47.9280	47.9280
11 Carbon Disulfide	76	7.058	7.065	(0.753)	932406	48.4298	48.4298
12 MTBE	73	7.304	7.302	(0.779)	1012791	51.5063	51.5063
13 trans-1,2-Dichloroethene	96	7.471	7.479	(0.797)	338720	48.9512	48.9511
14 Vinyl Acetate	43	8.130	8.020	(0.867)	31444	2.54223	2.5422
15 1,1-Dichloroethane	63	8.052	8.049	(0.858)	623551	49.8604	49.8604
16 2-Butanone	43	8.593	8.600	(0.916)	161695	48.8762	48.8761

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ815.D
Report Date: 08-Oct-2004 19:19

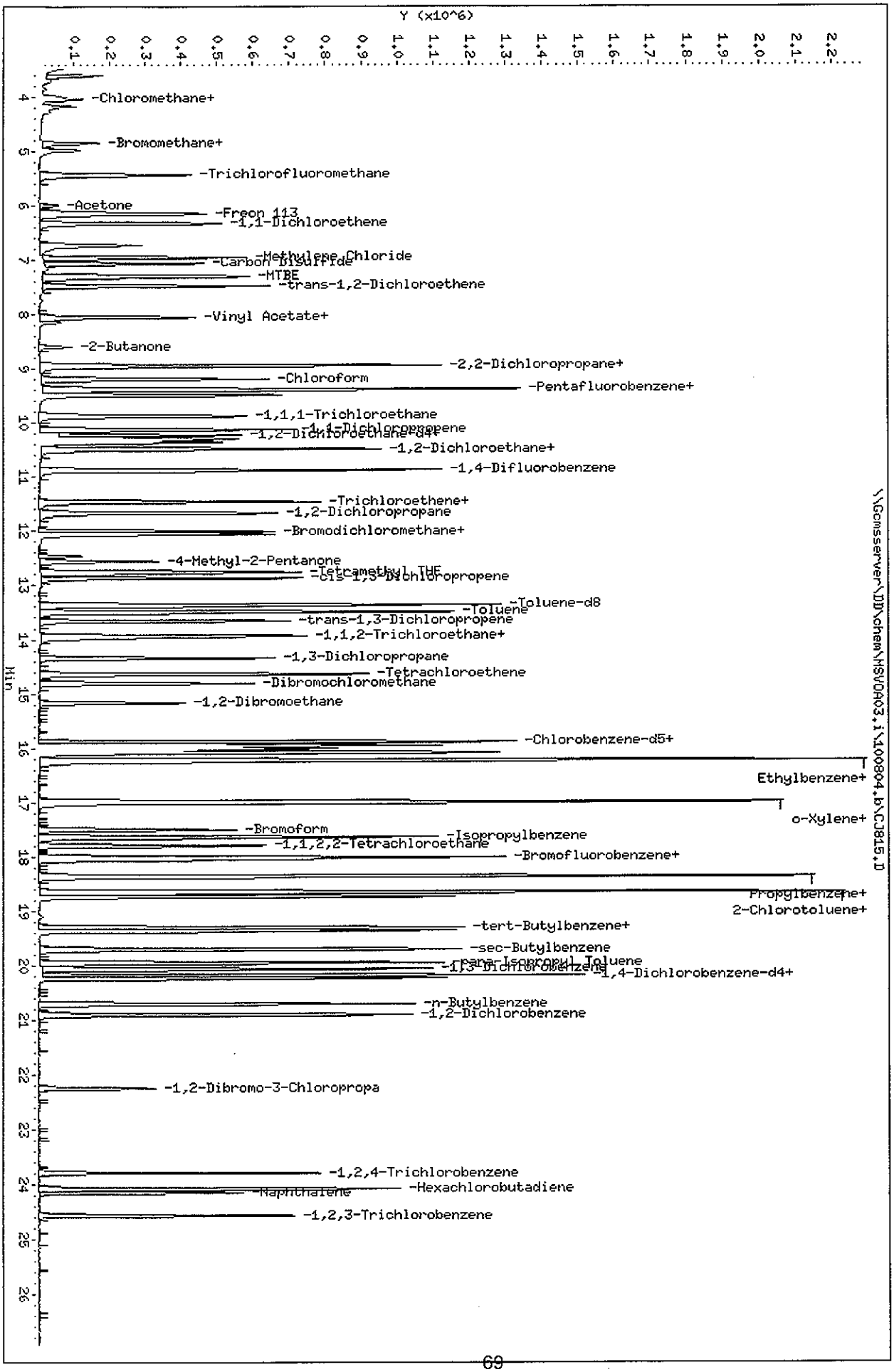
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 2,2-Dichloropropane	77	8.947	8.944	(0.954)	521640	49.0208	49.0207
	18 cis-1,2-Dichloroethene	96	8.947	8.944	(0.954)	381546	48.8353	48.8353
	19 Chloroform	83	9.193	9.190	(0.980)	729628	47.4138	47.4137
*	20 Pentafluorobenzene	168	9.380	9.387	(1.000)	923906	50.0000	
	21 Bromochloromethane	128	9.390	9.397	(1.001)	223477	47.5162	47.5162
$	22 Dibromofluoromethane	113	9.488	9.485	(1.012)	541437	49.2413	49.2412
	23 1,1,1-Trichloroethane	97	9.871	9.869	(1.052)	600979	51.6464	51.6464
	24 1,1-Dichloropropene	75	10.117	10.124	(0.930)	477301	52.2452	52.2451
$	25 1,2-Dichloroethane-d4	65	10.216	10.223	(0.939)	624813	52.7450	52.7450
	26 Carbon Tetrachloride	117	10.294	10.301	(0.947)	550525	54.0570	54.0569
	27 1,2-Dichloroethane	62	10.363	10.361	(0.953)	618305	48.7970	48.7970
	28 Benzene	78	10.481	10.479	(0.964)	1192587	50.3179	50.3178
*	29 1,4-Difluorobenzene	114	10.875	10.872	(1.000)	1224173	50.0000	
	30 Trichloroethene	95	11.455	11.462	(1.053)	387887	50.1433	50.1432
$	31 Trifluorotoluene	146	11.544	11.541	(1.062)	4222	0.40345	0.4034
	32 1,2-Dichloropropane	63	11.672	11.669	(1.073)	324533	50.0696	50.0695
	33 Bromodichloromethane	83	12.006	12.003	(1.104)	598451	50.6800	50.6800
	34 Dibromomethane	93	12.055	12.062	(1.109)	350624	48.4526	48.4526
	35 4-Methyl-2-Pentanone	43	12.557	12.554	(1.155)	353453	52.8242	52.8242
	36 Tetramethyl THF	43	12.753	12.761	(1.173)	691979	47.1661	47.1660
	37 cis-1,3-Dichloropropene	75	12.872	12.879	(1.184)	546566	47.6832	47.6832
$	38 Toluene-d8	98	13.363	13.370	(1.229)	1246929	49.9784	49.9784
	39 Toluene	92	13.501	13.498	(1.241)	748512	50.5136	50.5135
	40 trans-1,3-Dichloropropene	75	13.658	13.665	(1.256)	500762	45.5359	45.5359
	41 1,1,2-Trichloroethane	83	13.934	13.931	(1.281)	294057	49.8334	49.8334
	42 2-Hexanone	43	13.973	13.980	(0.879)	246745	45.8542	45.8542
	43 1,3-Dichloropropane	76	14.347	14.354	(0.903)	519215	48.6020	48.6019
	44 Tetrachloroethene	166	14.642	14.649	(0.921)	426081	50.4530	50.4529
	45 Dibromochloromethane	129	14.809	14.816	(0.932)	450600	47.6684	47.6684
	46 1,2-Dibromoethane	107	15.163	15.170	(1.394)	393263	49.6339	49.6339
*	47 Chlorobenzene-d5	117	15.891	15.898	(1.000)	1046670	50.0000	
	48 Chlorobenzene	112	15.960	15.957	(1.004)	852944	45.6398	45.6397
	49 1,1,1,2-Tetrachloroethane	131	16.019	16.016	(1.008)	354519	46.0336	46.0335
	50 Ethylbenzene	91	16.088	16.085	(1.012)	1485889	48.6416	48.6416
	51 m,p-Xylenes	106	16.235	16.233	(1.022)	972330	92.6207	92.6206
	52 o-Xylene	106	16.983	16.990	(1.069)	489990	46.1988	46.1988
	53 Styrene	104	17.003	17.010	(1.070)	839959	45.2623	45.2623
	54 Bromoform	173	17.504	17.501	(1.102)	405504	50.2553	50.2553
	55 Isopropylbenzene	105	17.632	17.639	(0.874)	1194746	45.0688	45.0688
	56 1,1,2,2-Tetrachloroethane	83	17.790	17.797	(0.882)	491571	49.9728	49.9727
$	57 Bromofluorobenzene	95	18.006	18.013	(0.892)	623069	52.1363	52.1362
	58 1,2,3-Trichloropropane	110	18.055	18.062	(0.895)	129819	50.2434	50.2434
	59 Propylbenzene	91	18.360	18.367	(0.910)	1588710	46.7305	46.7304
	60 Bromobenzene	156	18.370	18.367	(0.910)	424684	46.0243	46.0243
	61 2-Chlorotoluene	91	18.645	18.652	(0.924)	1149421	46.7529	46.7528
	62 1,3,5-Trimethylbenzene	105	18.655	18.652	(0.924)	1057231	45.8142	45.8141
	63 4-Chlorotoluene	91	18.734	18.741	(0.928)	1045586	43.8977	43.8977

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ815.D
Report Date: 08-Oct-2004 19:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 tert-Butylbenzene	119	19.304	19.311	(0.957)	978129	45.4650	45.4650
65 1,2,4-Trimethylbenzene	105	19.363	19.370	(0.960)	1014395	44.1866	44.1865
66 sec-Butylbenzene	105	19.708	19.705	(0.977)	1308576	45.0740	45.0740
67 para-Isopropyl Toluene	119	19.944	19.951	(0.988)	965881	41.2179	41.2178
68 1,3-Dichlorobenzene	146	20.062	20.059	(0.994)	675855	42.3857	42.3856
* 69 1,4-Dichlorobenzene-d4	152	20.180	20.177	(1.000)	599515	50.0000	
70 1,4-Dichlorobenzene	146	20.239	20.236	(1.003)	678875	41.8051	41.8051
71 n-Butylbenzene	91	20.701	20.698	(1.026)	926856	40.4634	40.4633
72 1,2-Dichlorobenzene	146	20.908	20.905	(1.036)	648551	42.2146	42.2145
73 1,2-Dibromo-3-Chloropropane	75	22.245	22.252	(1.102)	113835	53.8924	53.8923
74 1,2,4-Trichlorobenzene	180	23.790	23.787	(1.179)	324420	33.3905	33.3905
75 Hexachlorobutadiene	225	24.075	24.072	(1.193)	292810	40.0152	40.0151
76 Naphthalene	128	24.144	24.151	(1.196)	546808	37.0156	37.0155
77 1,2,3-Trichlorobenzene	180	24.567	24.564	(1.217)	309242	33.3288	33.3287

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\100804.b\CJ815.D
Date : 08-OCT-2004 18:20
Client ID: DYNA P&T
Sample Info: MSD,QC267391,95297,5.0/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Initial Calibration Data

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092304.b\CIN09.D

MSVOA03 8260S ICAL TUNE

Date : 23-SEP-2004 16:38

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

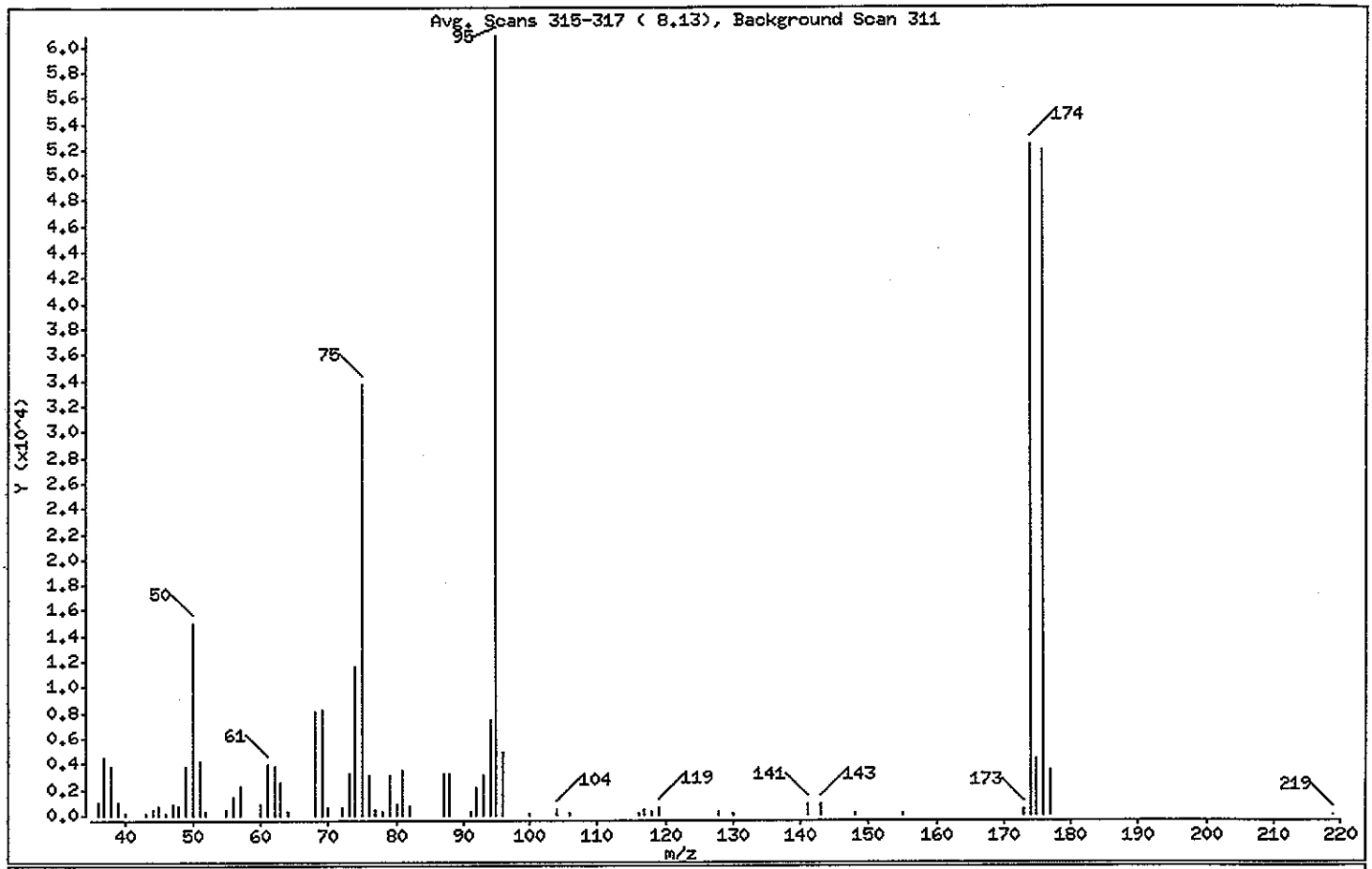
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.60
75	30.00 - 60.00% of mass 95	55.32
96	5.00 - 9.00% of mass 95	7.94
173	Less than 2.00% of mass 174	0.64 (0.74)
174	50.00 - 99.99% of mass 95	85.95
175	5.00 - 9.00% of mass 174	7.20 (8.38)
176	95.01 - 100.99% of mass 174	85.26 (99.20)
177	5.00 - 9.00% of mass 176	5.77 (6.77)

8/24/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092304.b\CIN09.D

Date : 23-SEP-2004 16:38

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

Data File: CIN09.D
Spectrum: Avg. Scans 315-317 (8.13), Background Scan 311
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	931	57.00	2273	80.00	808	119.00	507
37.00	4534	60.00	890	81.00	3515	128.00	237
38.00	3721	61.00	3872	82.00	697	130.00	109
39.00	957	62.00	3753	87.00	3252	141.00	792
40.00	107	63.00	2555	88.00	3264	143.00	886
43.00	120	64.00	344	91.00	342	148.00	106
44.00	405	68.00	8055	92.00	2142	155.00	108
45.00	665	69.00	8291	93.00	3094	173.00	387
46.00	110	70.00	601	94.00	7430	174.00	52240
47.00	876	72.00	494	95.00	60784	175.00	4379
48.00	683	73.00	3202	96.00	4828	176.00	51824
49.00	3804	74.00	11614	100.00	111	177.00	3508
50.00	14952	75.00	33624	104.00	411	219.00	37
51.00	4245	76.00	3116	106.00	196		
52.00	225	77.00	466	116.00	166		
55.00	372	78.00	265	117.00	385		
56.00	1427	79.00	3093	118.00	270		

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092304.b\CIN09.D

Date : 23-SEP-2004 16:38

Client ID: bfb tune std

Instrument: MSVOA03.i

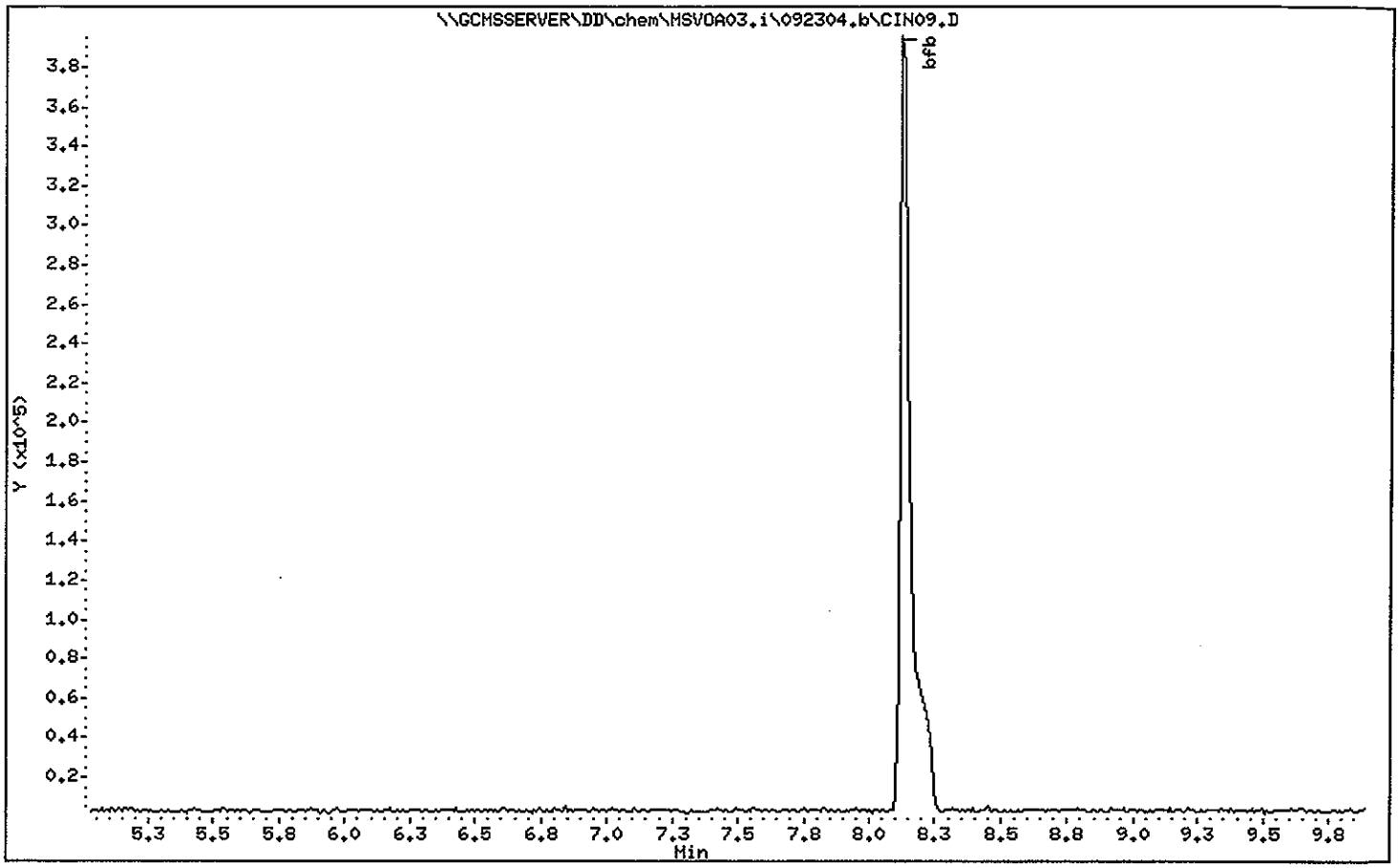
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092404.b\CI002.D

Date : 24-SEP-2004 10:05

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

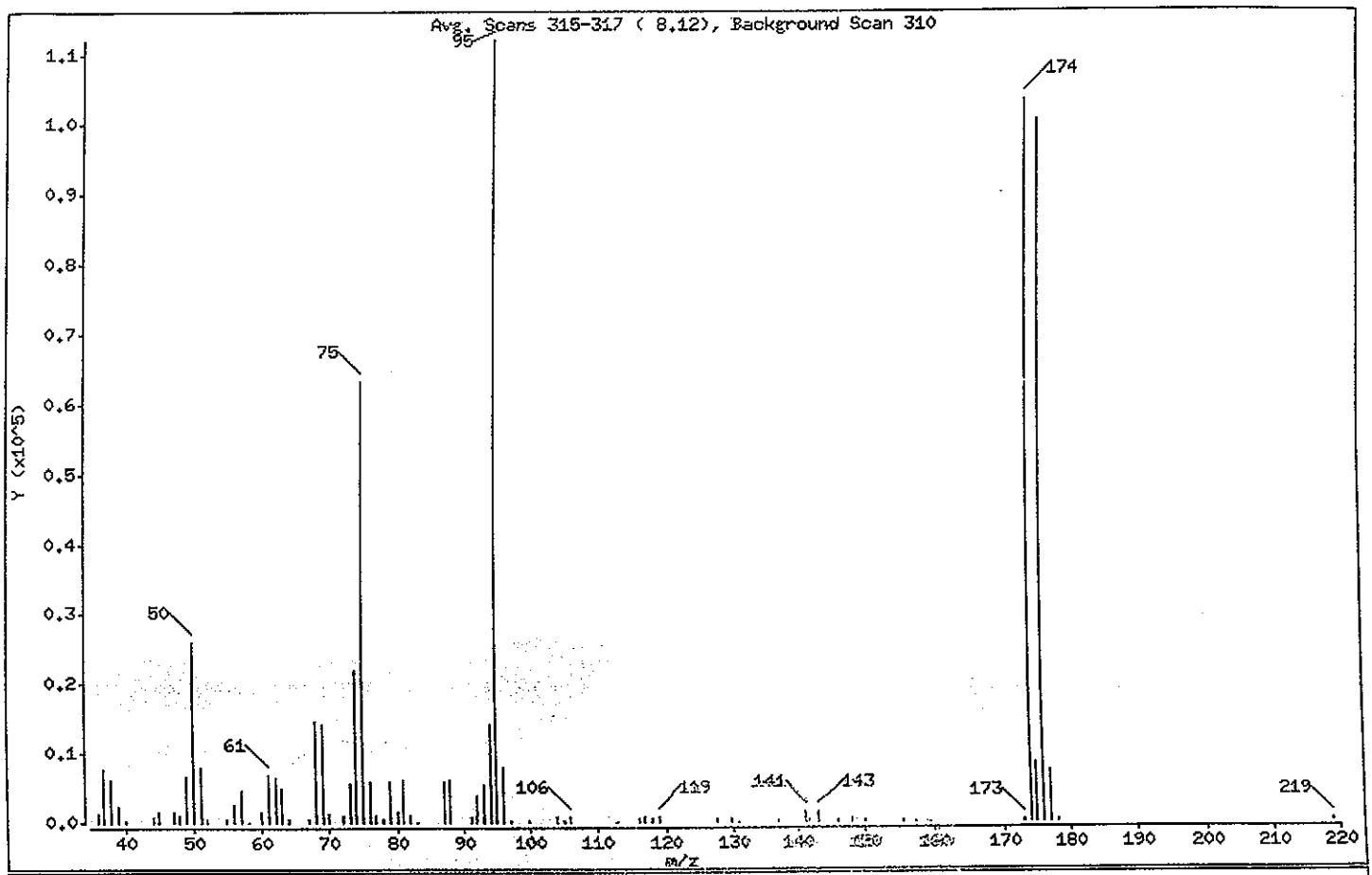
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.21
75	30.00 - 60.00% of mass 95	56.44
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.34 (0.37)
174	50.00 - 99.99% of mass 95	92.51
175	5.00 - 9.00% of mass 174	7.61 (8.22)
176	95.01 - 100.99% of mass 174	89.93 (97.21)
177	5.00 - 9.00% of mass 176	6.61 (7.36)

9/24/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092404.b\CI002.D

Date : 24-SEP-2004 10:05

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

Data File: CI002.D

Spectrum: Avg. Scans 315-317 (8.12), Background Scan 310

Location of Maximum: 95.00

Number of points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1395	62.00	6449	87.00	5821	130.00	566
37.00	7808	63.00	4788	88.00	6285	131.00	8
38.00	6102	64.00	488	91.00	819	137.00	136
39.00	2430	67.00	638	92.00	3857	141.00	1482
40.00	297	68.00	14646	93.00	5422	143.00	1512
44.00	811	69.00	14243	94.00	14233	146.00	241
45.00	1598	70.00	1199	95.00	111944	148.00	427
47.00	1433	72.00	901	96.00	7903	150.00	132
48.00	1033	73.00	5695	97.00	216	155.00	130
49.00	6637	74.00	21856	100.00	130	157.00	116
50.00	25984	75.00	63184	104.00	734	159.00	111
51.00	8049	76.00	6033	105.00	184	173.00	383
52.00	404	77.00	927	106.00	836	174.00	103560
55.00	633	78.00	621	113.00	107	175.00	8515
56.00	2574	79.00	6018	116.00	459	176.00	100672
57.00	4593	80.00	1627	117.00	758	177.00	7405
58.00	101	81.00	6255	118.00	619	178.00	259
60.00	1642	82.00	1151	119.00	840	219.00	174
61.00	6885	83.00	113	128.00	562		

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\092404.b\CI002.D

Date : 24-SEP-2004 10:05

Client ID: bfb tune std

Instrument: MSVOA03.i

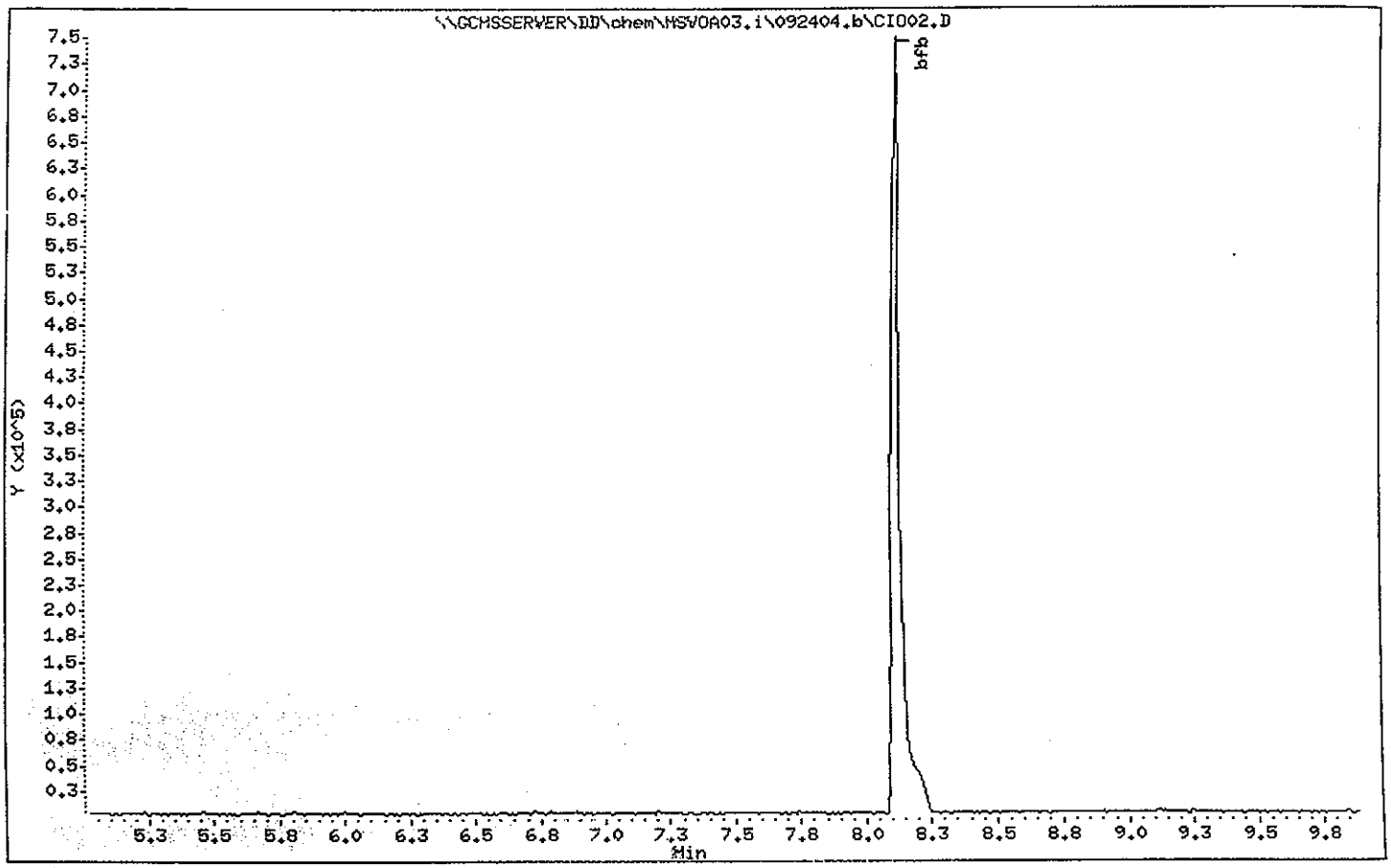
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ802.D

Date : 08-OCT-2004 11:04

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

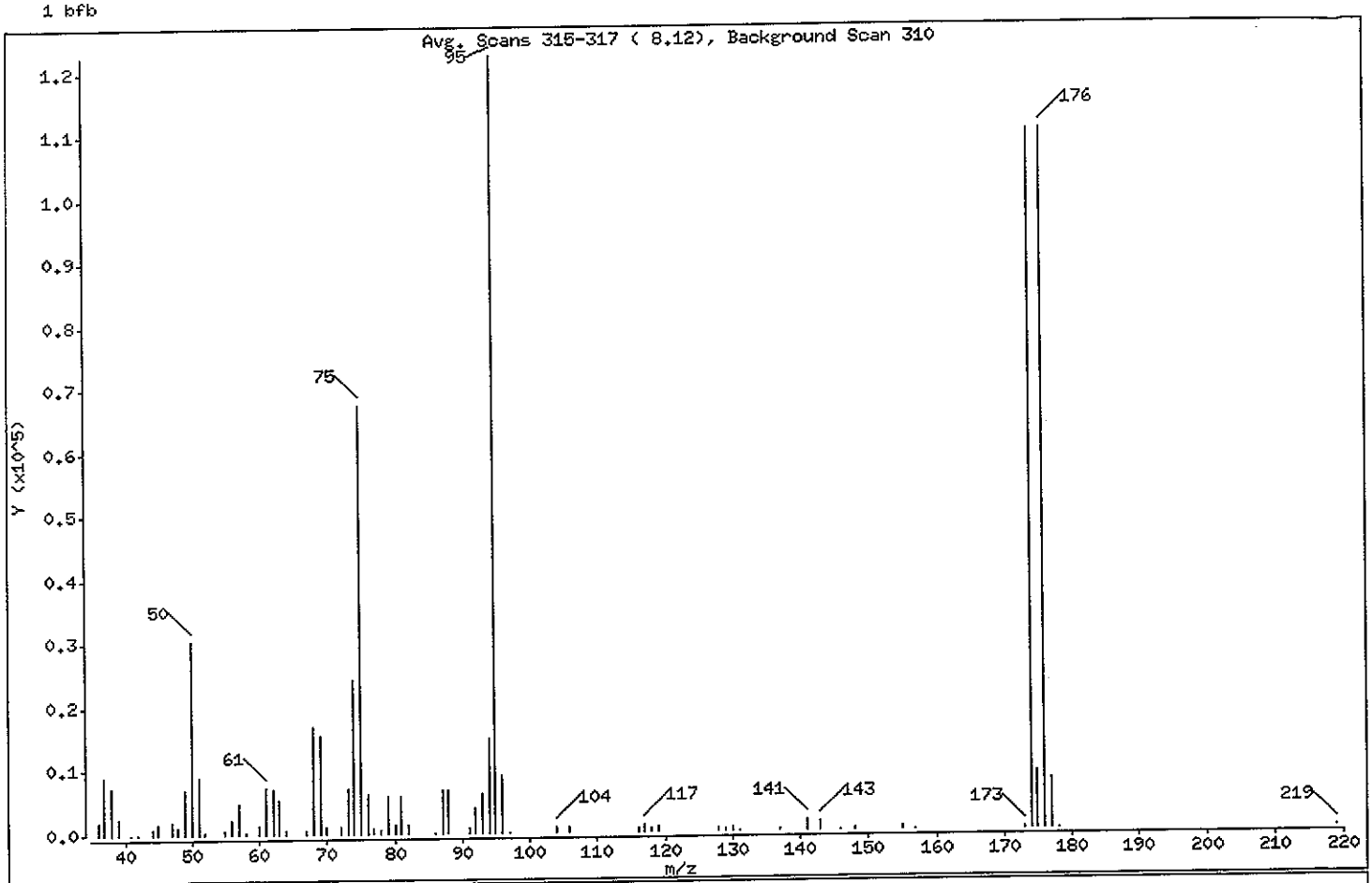
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.81
75	30.00 - 60.00% of mass 95	55.11
96	5.00 - 9.00% of mass 95	7.34
173	Less than 2.00% of mass 174	0.27 (0.30)
174	50.00 - 99.99% of mass 95	90.04
175	5.00 - 9.00% of mass 174	7.46 (8.29)
176	95.01 - 100.99% of mass 174	90.06 (100.03)
177	5.00 - 9.00% of mass 176	6.42 (7.13)

10/8/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ802.D

Date : 08-OCT-2004 11:04

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

Data File: CJ802.D

Spectrum: Avg. Scans 315-317 (8.12), Background Scan 310

Location of Maximum: 95.00

Number of points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1886	61.00	7418	86.00	107	131.00	81
37.00	8912	62.00	7089	87.00	6659	137.00	337
38.00	7223	63.00	5264	88.00	6631	141.00	1576
39.00	2626	64.00	542	91.00	758	143.00	1519
41.00	126	67.00	642	92.00	4045	146.00	131
42.00	102	68.00	16800	93.00	6082	148.00	162
44.00	924	69.00	15466	94.00	14938	155.00	433
45.00	1668	70.00	1202	95.00	122456	157.00	139
47.00	1845	72.00	1005	96.00	8985	173.00	332
48.00	1226	73.00	7014	97.00	111	174.00	110256
49.00	7151	74.00	24072	104.00	768	175.00	9136
50.00	30384	75.00	67480	106.00	745	176.00	110280
51.00	8963	76.00	6233	116.00	652	177.00	7860
52.00	159	77.00	929	117.00	1035	178.00	124
55.00	536	78.00	680	118.00	586	219.00	30
56.00	2363	79.00	5941	119.00	797		
57.00	4645	80.00	1363	128.00	599		
58.00	255	81.00	5990	129.00	261		
60.00	1526	82.00	1389	130.00	630		

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ802.D

Date : 08-OCT-2004 11:04

Client ID: bfb tune std

Instrument: MSVOA03.i

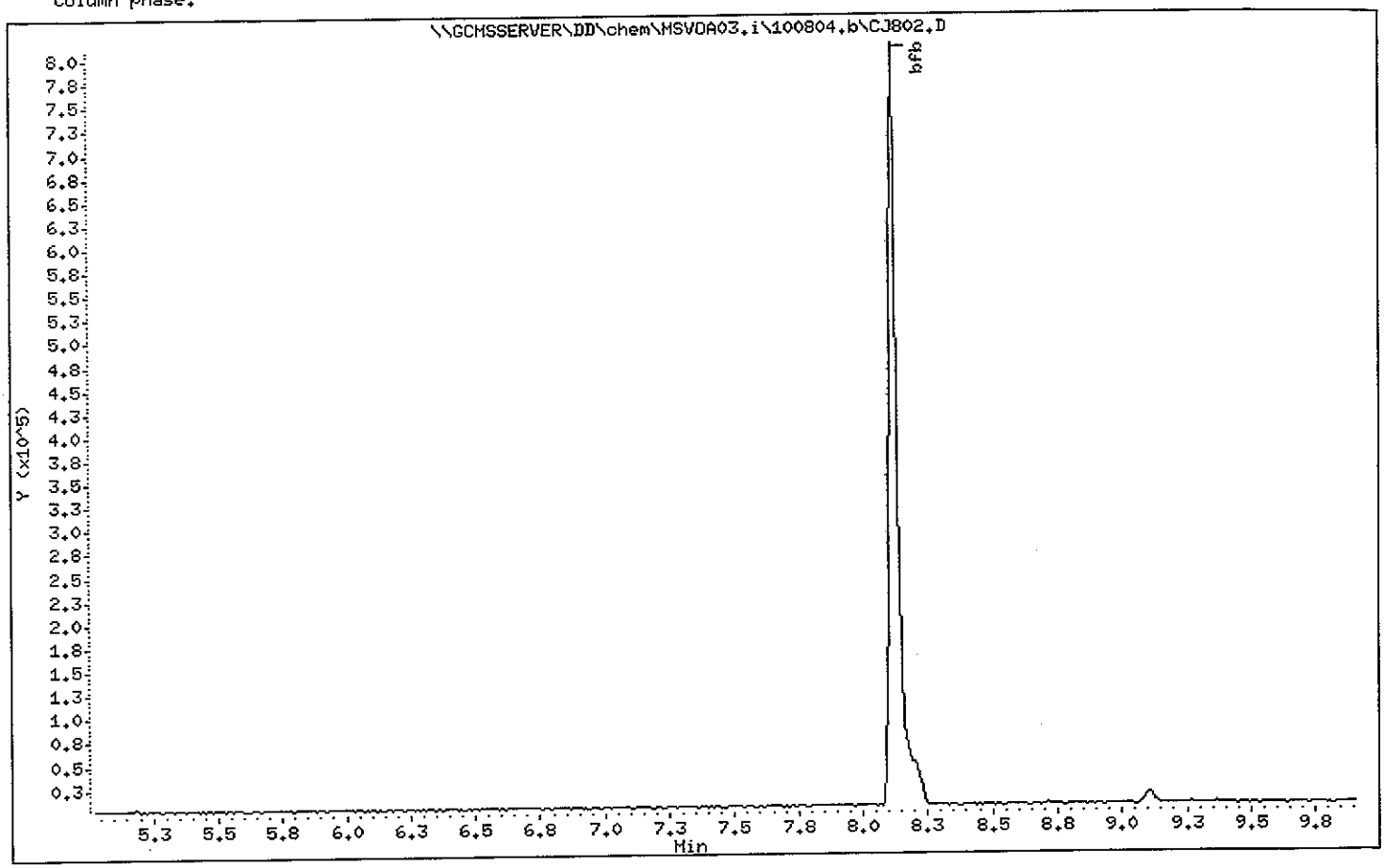
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424385122001 Name: I3M826 Type: SOIL Date: 23-SEP-2004 19:10 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	cin14	424385122014	5PPB	23-SEP-2004 19:10	04SS352 (100000X), 04WS1756A (50000X), 04WS1580 (5000X)
2	cin15	424385122015	10PPB	23-SEP-2004 19:44	04SS352 (50000X), 04WS1756A (25000X), 04WS1580 (5000X)
3	cin16	424385122016	20PPB	23-SEP-2004 20:17	04SS352 (25000X), 04WS1756A (12500X), 04WS1580 (5000X)
4	cin17	424385122017	50PPB	23-SEP-2004 20:51	04SS352 (10000X), 04WS1756A (5000X), 04WS1580 (5000X)
5	cin18	424385122018	60PPB	23-SEP-2004 21:25	04SS352 (8333X), 04WS1756A (4167X), 04WS1580 (5000X)
6	cin19	424385122019	75PPB	23-SEP-2004 21:58	04SS352 (6667X), 04WS1756A (3333X), 04WS1580 (5000X)
7	cin20	424385122020	100PPB	23-SEP-2004 22:32	04SS352 (5000X), 04WS1756A (2500X), 04WS1580 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4252m	0.4828m	0.4624m	0.4695	0.4959	0.4066	0.4794m	AVRG	R		2.172616		ug/L	0.4603	7	0.0500	0.99	15	
Chloromethane	0.5355	0.5366	0.4764	0.4583	0.4845	0.4490	0.4834	AVRG	R		2.044541		ug/L	0.4891	7	0.1000	0.99	15	
Vinyl Chloride	0.3828m	0.3772	0.3328	0.3061	0.3116	0.2585	0.2710	AVRG	R		3.124938		ug/L	0.3200	15	0.0500	0.99	15	
Bromomethane	0.2510	0.2484	0.2342	0.2285	0.2317	0.2183	0.2306	AVRG	R		4.261306		ug/L	0.2347	5	0.0500	0.99	15	
Chloroethane	0.2421m	0.2403	0.2178	0.2144	0.2248	0.2025	0.2176	AVRG	R		4.488505		ug/L	0.2228	6	0.0500	0.99	15	
Trichlorofluoromethane	0.7169	0.7644	0.6938	0.6930	0.7275	0.6262	0.7227	AVRG	R		1.415719		ug/L	0.7064	6	0.0500	0.99	15	
Acetone		0.1459	0.1249	0.1240	0.1242	0.1252	0.1245	AVRG	R		7.804607		ug/L	0.1281	7	0.0500	0.99	15	
Freon 113	0.3542	0.3173	0.3686	0.3483	0.3511	0.3332	0.3581	AVRG	R		2.879744		ug/L	0.3473	5	0.0500	0.99	15	
1,1-Dichloroethene	0.3355	0.2921	0.3018	0.2979	0.3035	0.2859	0.3125	AVRG	R		3.287764		ug/L	0.3042	5	0.0500	0.99	15	
Methylene Chloride	0.4689	0.4485	0.4307	0.4180	0.4248	0.4063	0.4204	AVRG	R		2.319693		ug/L	0.4311	5	0.0500	0.99	15	
Carbon Disulfide	1.0578	1.0172	1.0466	1.0299	1.0615	1.0088	1.0717	AVRG	R		0.959767		ug/L	1.0419	2	0.0500	0.99	15	
MTBE	1.1182	1.0346	1.0547	1.0417	1.0716	1.0457	1.0824	AVRG	R		0.939720		ug/L	1.0641	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4135	0.3860	0.3802	0.3602	0.3635	0.3522	0.3657	AVRG	R		2.670418		ug/L	0.3745	6	0.0500	0.99	15	
Vinyl Acetate	0.6440	0.6051	0.6395	0.6665	0.7072	0.6842	0.7392	AVRG	R		1.493912		ug/L	0.6694	7	0.0500	0.99	15	
1,1-Dichloroethane	0.7459	0.6928	0.6791	0.6541	0.6631	0.6413	0.6612	AVRG	R		1.477547		ug/L	0.6768	5	0.1000	0.99	15	
2-Butanone	0.1832	0.1747	0.1726	0.1747	0.1831	0.1817	0.1832	AVRG	R		5.585434		ug/L	0.1790	3	0.0500	0.99	15	
2,2-Dichloropropane	0.6204	0.5778	0.5846	0.5637	0.5716	0.5421	0.5709	AVRG	R		1.736468		ug/L	0.5759	4	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.4688	0.4391	0.4187	0.4116	0.4122	0.3936	0.4158	AVRG	R		2.365072		ug/L	0.4228	6	0.0500	0.99	15	

Flags used: m=manual integration for inc. int. by Target.
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL - GOOD
ICV - GOOD + A.C.E. limit - TCFM↑, F113↑

✓ W 9/27/07 b 9/24/07

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424385122001 Name: I3M826 Type: SOIL Date: 23-SEP-2004 19:10 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.9409	0.8524	0.8255	0.8091	0.8193	0.7843	0.7980	AVRG	R		1.200773		ug/L	0.8328	6	0.0500	0.99	15	
Bromochloromethane	0.2682	0.2606	0.2546	0.2524	0.2539	0.2396	0.2523	AVRG	R		3.928858		ug/L	0.2545	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.6783	0.6109	0.6377	0.6228	0.6315	0.5933	0.6336	AVRG	R		1.587957		ug/L	0.6297	4	0.0500	0.99	15	
1,1-Dichloropropene	0.3945	0.3607	0.3846	0.3761	0.3707	0.3520	0.3734	AVRG	R		2.679948		ug/L	0.3731	4	0.0500	0.99	15	
Carbon Tetrachloride	0.4359	0.3902	0.4289	0.4203	0.4211	0.3950	0.4203	AVRG	R		2.404071		ug/L	0.4160	4	0.0500	0.99	15	
1,2-Dichloroethane	0.5592	0.5347	0.5234	0.5110	0.5103	0.4895	0.4946	AVRG	R		1.932249		ug/L	0.5175	5	0.0500	0.99	15	
Benzene	1.0749	0.9974	0.9762	0.9466	0.9377	0.9138	0.9297	AVRG	R		1.033012		ug/L	0.9680	6	0.0500	0.99	15	
Trichloroethene	0.3416	0.3153	0.3259	0.3140	0.3129	0.2970	0.3050	AVRG	R		3.165043		ug/L	0.3160	5	0.0500	0.99	15	
1,2-Dichloropropane	0.2716	0.2688	0.2680	0.2569	0.2630	0.2606	0.2642	AVRG	R		3.777348		ug/L	0.2647	2	0.0500	0.99	15	
Bromodichloromethane	0.4901	0.4904	0.4870	0.4825	0.4812	0.4687	0.4763	AVRG	R		2.073389		ug/L	0.4823	2	0.0500	0.99	15	
Dibromomethane	0.3102	0.2974	0.2982	0.2967	0.2918	0.2859	0.2888	AVRG	R		3.383363		ug/L	0.2956	3	0.0500	0.99	15	
4-Methyl-2-Pentanone	0.2514	0.2585	0.2614	0.2808	0.2876	0.2857	0.2875	AVRG	R		3.659093		ug/L	0.2733	6	0.0500	0.99	15	
Tetramethyl THF	0.5574	0.5785	0.5851	0.6155	0.6218	0.6071	0.6291	AVRG	R		1.668821		ug/L	0.5992	4	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4690	0.4581	0.4612	0.4749	0.4777	0.4610	0.4753	AVRG	R		2.135974		ug/L	0.4682	2	0.0500	0.99	15	
Toluene	0.6193	0.6183	0.6184	0.6099	0.5974	0.5773	0.5960	AVRG	R		1.652275		ug/L	0.6052	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.4326	0.4225	0.4409	0.4634	0.4710	0.4539	0.4597	AVRG	R		2.226361		ug/L	0.4492	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2399	0.2444	0.2370	0.2430	0.2444	0.2382	0.2402	AVRG	R		4.149170		ug/L	0.2410	1	0.0500	0.99	15	
2-Hexanone	0.2534	0.2500	0.2446	0.2594	0.2689	0.2601	0.2630	AVRG	R		3.890189		ug/L	0.2571	3	0.0500	0.99	15	
1,3-Dichloropropane	0.5231	0.5262	0.5057	0.5099	0.5161	0.4936	0.4978	AVRG	R		1.959505		ug/L	0.5103	2	0.0500	0.99	15	
Tetrachloroethene	0.4429	0.4070	0.4254	0.3992	0.3963	0.3700	0.3832	AVRG	R		2.478760		ug/L	0.4034	6	0.0500	0.99	15	
Dibromochloromethane	0.4492	0.4542	0.4419	0.4628	0.4685	0.4278	0.4566	AVRG	R		2.214516		ug/L	0.4516	3	0.0500	0.99	15	
1,2-Dibromoethane	0.3146	0.3126	0.3195	0.3336	0.3328	0.3222	0.3301	AVRG	R		3.090069		ug/L	0.3236	3	0.0500	0.99	15	
Chlorobenzene	0.9690	0.9363	0.9188	0.8824	0.8653	0.8314	0.8461	AVRG	R		1.120115		ug/L	0.8928	6	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3968	0.3946	0.3735	0.3608	0.3611	0.3385	0.3501	AVRG	R		2.718157		ug/L	0.3679	6	0.0500	0.99	15	
Ethylbenzene	1.6064	1.5075	1.4920	1.4216	1.4297	1.3589	1.3990	AVRG	R		0.685270		ug/L	1.4593	6	0.0500	0.99	15	
m,p-Xylenes	0.5587	0.5282	0.5139	0.4927	0.4931	0.4566	0.4671	AVRG	R		1.994041		ug/L	0.5015	7	0.0500	0.99	15	
o-Xylene	0.5510	0.5303	0.5277	0.4933	0.4963	0.4703	0.4777	AVRG	R		1.973708		ug/L	0.5067	6	0.0500	0.99	15	
Styrene	0.9229	0.9066	0.9186	0.8909	0.8899	0.8323	0.8444	AVRG	R		1.128025		ug/L	0.8865	4	0.0500	0.99	15	
Bromoform	0.3524	0.3654	0.3791	0.4005	0.4060	0.3932	0.4016	AVRG	R		2.594338		ug/L	0.3855	5	0.1000	0.99	15	
Isopropylbenzene	2.3415	2.2427	2.3276	2.2290	2.1786	2.0231	2.1337	AVRG	R		0.452305		ug/L	2.2109	5	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	0.8368	0.8241	0.8274	0.8274	0.8239	0.7863	0.8169	AVRG	R		1.218925		ug/L	0.8204	2	0.3000	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424385122001 Name: I3M826 Type: SOIL Date: 23-SEP-2004 19:10 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,2,3-Trichloropropane	0.2239	0.2218	0.2224	0.2158	0.2157	0.2025	0.2063	AVRG	R		4.640546		ug/L	0.2155	4	0.0500	0.99	15	
Propylbenzene	3.0921	2.9407	2.9819	2.8230	2.7460	2.5939	2.6701	AVRG	R		0.352684		ug/L	2.8354	6	0.0500	0.99	15	
Bromobenzene	0.8513	0.8053	0.8119	0.7682	0.7416	0.6940	0.7146	AVRG	R		1.299426		ug/L	0.7696	7	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.1341	2.0429	2.0203	1.9044	1.8404	1.7476	1.7826	AVRG	R		0.519589		ug/L	1.9246	8	0.0500	0.99	15	
2-Chlorotoluene	2.2732	2.1516	2.1453	2.0159	1.9862	1.8872	1.8935	AVRG	R		0.487708		ug/L	2.0504	7	0.0500	0.99	15	
4-Chlorotoluene	2.1502	2.1215	2.0658	1.9390	1.9245	1.8116	1.8928	AVRG	R		0.503399		ug/L	1.9865	6	0.0500	0.99	15	
tert-Butylbenzene	1.9297	1.8501	1.8726	1.7960	1.7534	1.6384	1.7198	AVRG	R		0.557329		ug/L	1.7943	6	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.0559	2.0299	1.9846	1.9112	1.8271	1.7582	1.8357	AVRG	R		0.522292		ug/L	1.9146	6	0.0500	0.99	15	
sec-Butylbenzene	2.5500	2.5292	2.5241	2.4162	2.3734	2.2189	2.3370	AVRG	R		0.413007		ug/L	2.4213	5	0.0500	0.99	15	
para-Isopropyl Toluene	2.1475	2.0616	2.0307	1.9223	1.8872	1.7974	1.8340	AVRG	R		0.511672		ug/L	1.9544	7	0.0500	0.99	15	
1,3-Dichlorobenzene	1.4489	1.3943	1.3749	1.3185	1.2984	1.2147	1.2593	AVRG	R		0.751961		ug/L	1.3299	6	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5283	1.4507	1.4052	1.3241	1.2912	1.2249	1.2561	AVRG	R		0.738363		ug/L	1.3543	8	0.0500	0.99	15	
n-Butylbenzene	1.9830	2.0032	1.9971	1.8931	1.8505	1.7892	1.8565	AVRG	R		0.523456		ug/L	1.9104	4	0.0500	0.99	15	
1,2-Dichlorobenzene	1.3829	1.3442	1.3217	1.2741	1.2498	1.1883	1.2081	AVRG	R		0.780456		ug/L	1.2813	6	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1591	0.1729	0.1785	0.1780	0.1902	0.1783	0.1762	AVRG	R		5.676491		ug/L	0.1762	5	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8805	0.8699	0.8479	0.7943	0.7679	0.7463	0.7654	AVRG	R		1.234086		ug/L	0.8103	7	0.0500	0.99	15	
Hexachlorobutadiene	0.6596	0.6223	0.6678	0.6012	0.6125	0.5506	0.5579	AVRG	R		1.638584		ug/L	0.6103	7	0.0500	0.99	15	
Naphthalene	1.1549	1.1818	1.1951	1.2663	1.2571	1.2533	1.3156	AVRG	R		0.811670		ug/L	1.2320	5	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8382	0.8155	0.8075	0.7538	0.7429	0.7191	0.7399	AVRG	R		1.292260		ug/L	0.7738	6	0.0500	0.99	15	
Dibromofluoromethane	0.6028	0.5875	0.5875	0.6008	0.5946	0.5857	0.6065	AVRG	R		1.680504		ug/L	0.5951	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.5064	0.4776	0.4890	0.4836	0.4778	0.4811	0.4713	AVRG	R		2.066826		ug/L	0.4838	2	0.0500	0.99	15	
Trifluorotoluene	0.4474	0.4157	0.4475	0.4308	0.4265	0.4000	0.4245	AVRG	R		2.339223		ug/L	0.4275	4	0.0500	0.99	15	
Toluene-d8	0.9911	1.0029	1.0124	1.0258	1.0259	1.0335	1.0415	AVRG	R		0.981327		ug/L	1.0190	2	0.0500	0.99	15	
Bromofluorobenzene	0.9889	0.9832	1.0028	1.0027	1.0154	0.9824	1.0015	AVRG	R		1.003306		ug/L	0.9967	1	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN14.D
Report Date: 24-Sep-2004 16:12

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN14.D
Lab Smp Id:
Inj Date : 23-SEP-2004 19:10
Operator : tw
Smp Info : ICAL,04SS352,0.001/100,04WS1756A,0.002/100
Misc Info : 5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target
Cal Date : 23-SEP-2004 19:10
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 08-AUG-1996 10:00
Inst ID: MSVOA03.i
Quant Type: ISTD
Cal File: CIN14.D
Calibration Sample, Level: 7
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.603	3.603	(0.384)	38454	5.00000	5.0558(M)
2 Chloromethane	50	4.046	4.035	(0.431)	48426	5.00000	5.4742
3 Vinyl Chloride	62	4.174	4.174	(0.445)	34621	5.00000	5.9818(M)
4 Bromomethane	94	4.862	4.852	(0.518)	22699	5.00000	5.3481
5 Chloroethane	64	4.990	4.980	(0.532)	21894	5.00000	5.4335(M)
6 Trichlorofluoromethane	101	5.433	5.442	(0.579)	64834	5.00000	5.0749
7 Acetone	43	6.013	5.993	(0.641)	15482	5.00000	6.6808
8 Freon 113	101	6.161	6.151	(0.656)	32028	5.00000	5.0996
9 1,1-Dichloroethene	96	6.338	6.328	(0.675)	30338	5.00000	5.5149
10 Methylene Chloride	84	6.977	6.967	(0.743)	42402	5.00000	5.4383
11 Carbon Disulfide	76	7.075	7.065	(0.754)	95654	5.00000	5.0760
12 MTBE	73	7.312	7.302	(0.779)	101122	5.00000	5.2540
13 trans-1,2-Dichloroethene	96	7.479	7.479	(0.797)	37396	5.00000	5.5215
14 Vinyl Acetate	43	8.020	8.020	(0.854)	58234	5.00000	4.8101
15 1,1-Dichloroethane	63	8.059	8.048	(0.859)	67454	5.00000	5.5106
16 2-Butanone	43	8.600	8.600	(0.916)	16570	5.00000	5.1172
17 2,2-Dichloropropane	77	8.954	8.944	(0.954)	56099	5.00000	5.3861
18 cis-1,2-Dichloroethene	96	8.954	8.944	(0.954)	42391	5.00000	5.5433
19 Chloroform	83	9.190	9.190	(0.979)	85088	5.00000	5.6491
* 20 Pentafluorobenzene	168	9.387	9.387	(1.000)	904308	50.0000	
21 Bromochloromethane	128	9.407	9.397	(1.002)	24257	5.00000	5.2693
$ 22 Dibromofluoromethane	113	9.495	9.485	(1.012)	545113	50.0000	50.6500

9/24/04

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN14.D
Report Date: 24-Sep-2004 16:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 1,1,1-Trichloroethane	97	9.879	9.869	(1.052)	61339	5.00000	5.3855
24 1,1-Dichloropropene	75	10.125	10.124	(0.930)	47829	5.00000	5.2858
$ 25 1,2-Dichloroethane-d4	65	10.223	10.223	(0.939)	614058	50.0000	52.3368
26 Carbon Tetrachloride	117	10.302	10.301	(0.947)	52852	5.00000	5.2396
27 1,2-Dichloroethane	62	10.371	10.361	(0.953)	67808	5.00000	5.4030
28 Benzene	78	10.489	10.479	(0.964)	130331	5.00000	5.5519
* 29 1,4-Difluorobenzene	114	10.882	10.872	(1.000)	1212483	50.0000	
30 Trichloroethene	95	11.462	11.462	(1.053)	41420	5.00000	5.4060
$ 31 Trifluorotoluene	146	11.541	11.541	(1.061)	54242	5.00000	5.2324
32 1,2-Dichloropropane	63	11.679	11.669	(1.073)	32935	5.00000	5.1302
33 Bromodichloromethane	83	12.013	12.003	(1.104)	59423	5.00000	5.0807
34 Dibromomethane	93	12.062	12.062	(1.108)	37615	5.00000	5.2481
35 4-Methyl-2-Pentanone	43	12.564	12.554	(1.155)	30486	5.00000	4.6001
36 Tetramethyl THF	43	12.771	12.761	(1.174)	67581	5.00000	4.6508
37 cis-1,3-Dichloropropene	75	12.879	12.879	(1.183)	56862	5.00000	5.0085
$ 38 Toluene-d8	98	13.371	13.370	(1.229)	1201736	50.0000	48.6314
39 Toluene	92	13.498	13.498	(1.240)	75084	5.00000	5.1159
40 trans-1,3-Dichloropropene	75	13.666	13.665	(1.256)	52455	5.00000	4.8158
41 1,1,2-Trichloroethane	83	13.931	13.931	(1.280)	29088	5.00000	4.9770
42 2-Hexanone	43	13.980	13.980	(0.879)	24626	5.00000	4.9292
43 1,3-Dichloropropane	76	14.354	14.354	(0.903)	50830	5.00000	5.1248
44 Tetrachloroethene	166	14.649	14.649	(0.921)	43041	5.00000	5.4894
45 Dibromochloromethane	129	14.816	14.816	(0.932)	43648	5.00000	4.9734
46 1,2-Dibromoethane	107	15.171	15.170	(1.394)	38140	5.00000	4.8600
* 47 Chlorobenzene-d5	117	15.898	15.898	(1.000)	971750	50.0000	
48 Chlorobenzene	112	15.957	15.957	(1.004)	94164	5.00000	5.4270
49 1,1,1,2-Tetrachloroethane	131	16.016	16.015	(1.007)	38563	5.00000	5.3933
50 Ethylbenzene	91	16.085	16.085	(1.012)	156101	5.00000	5.5040
51 m,p-Xylenes	106	16.233	16.233	(1.021)	108585	10.0000	11.1408
52 o-Xylene	106	16.990	16.989	(1.069)	53548	5.00000	5.4380
53 Styrene	104	17.000	17.010	(1.069)	89682	5.00000	5.2052
54 Bromoform	173	17.502	17.501	(1.101)	34244	5.00000	4.5711
55 Isopropylbenzene	105	17.639	17.639	(0.874)	131718	5.00000	5.2953
56 1,1,2,2-Tetrachloroethane	83	17.797	17.797	(0.882)	47071	5.00000	5.0997
$ 57 Bromofluorobenzene	95	18.013	18.013	(0.893)	556291	50.0000	49.6083
58 1,2,3-Trichloropropane	110	18.053	18.062	(0.895)	12597	5.00000	5.1958
59 Propylbenzene	91	18.367	18.367	(0.910)	173944	5.00000	5.4527
60 Bromobenzene	156	18.367	18.367	(0.910)	47887	5.00000	5.5308
61 2-Chlorotoluene	91	18.653	18.652	(0.924)	127877	5.00000	5.5433
62 1,3,5-Trimethylbenzene	105	18.653	18.652	(0.924)	120048	5.00000	5.5441
63 4-Chlorotoluene	91	18.731	18.741	(0.928)	120958	5.00000	5.4121
64 tert-Butylbenzene	119	19.302	19.311	(0.957)	108551	5.00000	5.3773
65 1,2,4-Trimethylbenzene	105	19.361	19.370	(0.960)	115651	5.00000	5.3688
66 sec-Butylbenzene	105	19.705	19.705	(0.977)	143448	5.00000	5.2658
67 para-Isopropyl Toluene	119	19.951	19.951	(0.989)	120807	5.00000	5.4941
68 1,3-Dichlorobenzene	146	20.059	20.059	(0.994)	81507	5.00000	5.4476
* 69 1,4-Dichlorobenzene-d4	152	20.177	20.177	(1.000)	562536	50.0000	
70 1,4-Dichlorobenzene	146	20.236	20.236	(1.003)	85974	5.00000	5.6423
71 n-Butylbenzene	91	20.698	20.698	(1.026)	111553	5.00000	5.1901
72 1,2-Dichlorobenzene	146	20.905	20.905	(1.036)	77793	5.00000	5.3964
73 1,2-Dibromo-3-Chloropropane	75	22.253	22.252	(1.103)	8949	5.00000	4.5151
74 1,2,4-Trichlorobenzene	180	23.787	23.787	(1.179)	49533	5.00000	5.4332
75 Hexachlorobutadiene	225	24.072	24.072	(1.193)	37107	5.00000	5.4043
76 Naphthalene	128	24.141	24.151	(1.196)	64969	5.00000	4.6871

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN14.D
Report Date: 24-Sep-2004 16:12

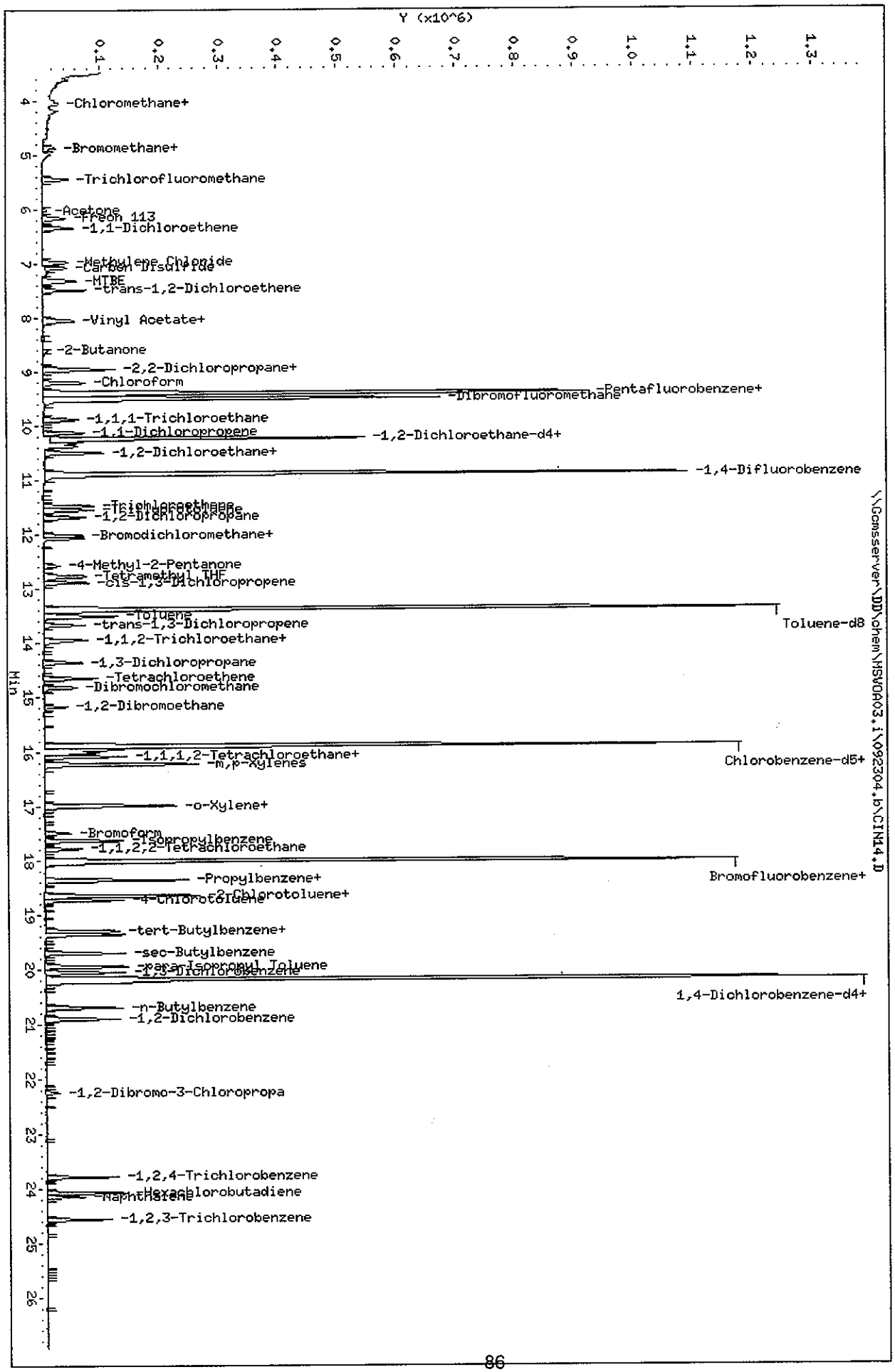
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.564	24.564	(1.217)	47149	5.00000	5.4155

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA03.i\092304.b\CIN14.D
Date : 23-SEP-2004 19:10
Client ID: DYNA P&T
Sample Info: ICAL,04SS352,0,001/100,04WS1756A,0,002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

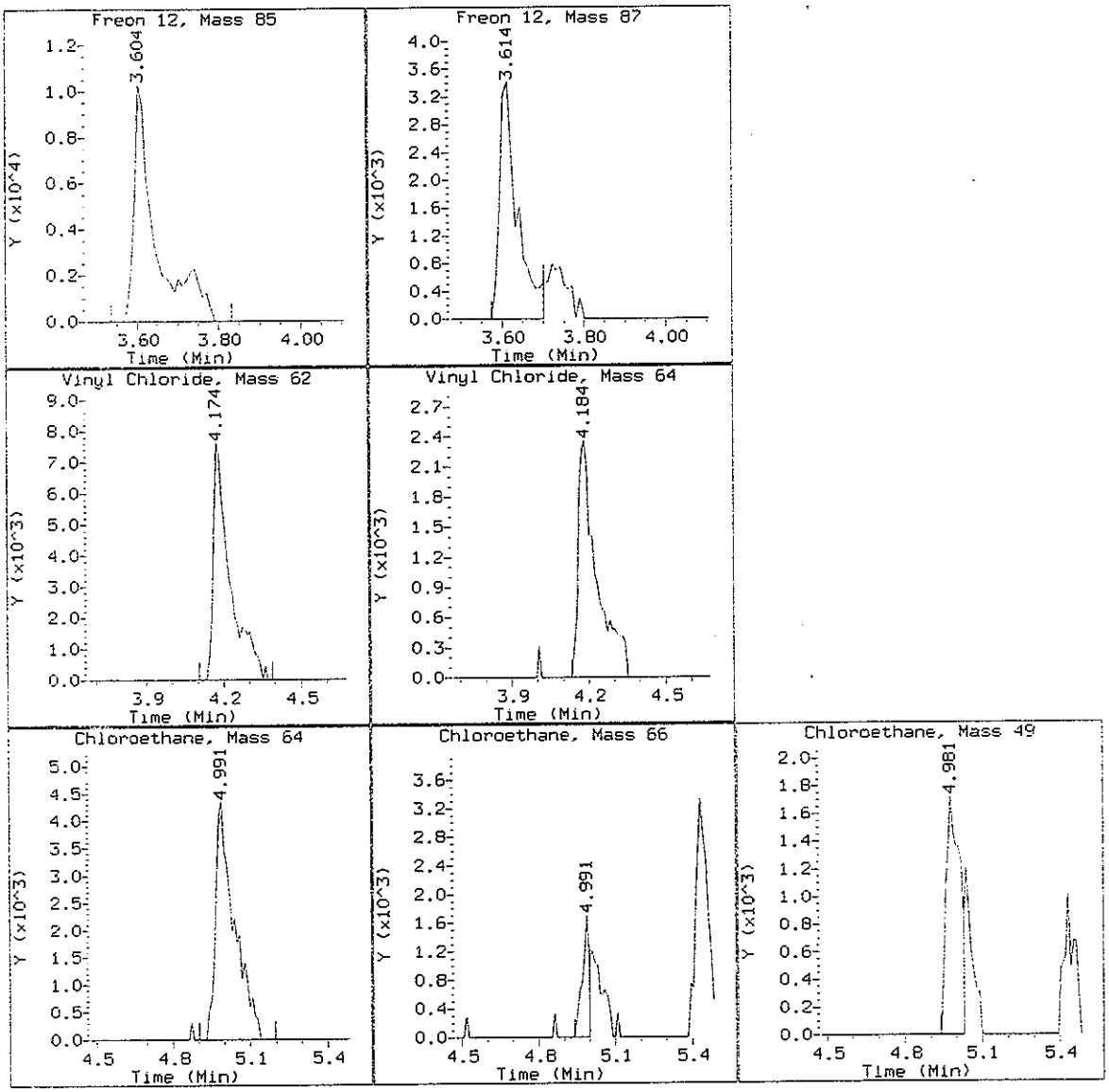
Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Signal Manual Integrations Report

Report Date: 09/24/2004 16:13

Datafile: //Gcmsserver/DD/chem/MSVOA03.i/092304.b/CIN14.D
Injection Date: 23-SEP-2004 19:10
Lab ID: Client ID:DYNA P&T



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN15.D
Report Date: 24-Sep-2004 16:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN15.D
Lab Smp Id:
Inj Date : 23-SEP-2004 19:44
Operator : tw
Smp Info : ICAL,04SS352,0.002/100,04WS1756A,0.004/100
Misc Info : 10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target
Cal Date : 23-SEP-2004 19:44
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 08-AUG-1996 10:00
Inst ID: MSVOA03.i
Quant Type: ISTD
Cal File: CIN15.D
Calibration Sample, Level: 6
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.605	3.603	(0.384)	86732	10.0000	11.1507(M)
2 Chloromethane	50	4.037	4.035	(0.430)	96396	10.0000	10.9705
3 Vinyl Chloride	62	4.185	4.174	(0.445)	67755	10.0000	11.7857
4 Bromomethane	94	4.854	4.852	(0.516)	44632	10.0000	10.5867
5 Chloroethane	64	4.992	4.980	(0.531)	43170	10.0000	10.7859
6 Trichlorofluoromethane	101	5.444	5.442	(0.579)	137327	10.0000	10.8219
7 Acetone	43	6.005	5.993	(0.639)	26214	10.0000	11.3882
8 Freon 113	101	6.162	6.151	(0.656)	57001	10.0000	9.1371
9 1,1-Dichloroethene	96	6.339	6.328	(0.675)	52469	10.0000	9.6023
10 Methylene Chloride	84	6.969	6.967	(0.742)	80572	10.0000	10.4036
11 Carbon Disulfide	76	7.077	7.065	(0.753)	182736	10.0000	9.7625
12 MTBE	73	7.323	7.302	(0.779)	185874	10.0000	9.7227
13 trans-1,2-Dichloroethene	96	7.490	7.479	(0.797)	69350	10.0000	10.3085
14 Vinyl Acetate	43	8.031	8.020	(0.855)	108714	10.0000	9.0403
15 1,1-Dichloroethane	63	8.070	8.048	(0.859)	124468	10.0000	10.2369
16 2-Butanone	43	8.611	8.600	(0.916)	31376	10.0000	9.7549
17 2,2-Dichloropropane	77	8.955	8.944	(0.953)	103809	10.0000	10.0340
18 cis-1,2-Dichloroethene	96	8.955	8.944	(0.953)	78877	10.0000	10.3840
19 Chloroform	83	9.211	9.190	(0.980)	153135	10.0000	10.2354
* 20 Pentafluorobenzene	168	9.398	9.387	(1.000)	898250	50.0000	
21 Bromochloromethane	128	9.408	9.397	(1.001)	46821	10.0000	10.2395
$ 22 Dibromofluoromethane	113	9.496	9.485	(1.010)	527735	50.0000	49.3660

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN15.D
Report Date: 24-Sep-2004 16:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.890	9.869	(1.052)	109746	10.0000	9.7006
	24 1,1-Dichloropropene	75	10.136	10.124	(0.930)	86209	10.0000	9.6660
$	25 1,2-Dichloroethane-d4	65	10.234	10.223	(0.940)	570741	50.0000	49.3527
	26 Carbon Tetrachloride	117	10.313	10.301	(0.947)	93271	10.0000	9.3812
	27 1,2-Dichloroethane	62	10.382	10.361	(0.953)	127806	10.0000	10.3319
	28 Benzene	78	10.500	10.479	(0.964)	238404	10.0000	10.3035
*	29 1,4-Difluorobenzene	114	10.893	10.872	(1.000)	1195092	50.0000	
	30 Trichloroethene	95	11.473	11.462	(1.053)	75359	10.0000	9.9789
$	31 Trifluorotoluene	146	11.552	11.541	(1.060)	99371	10.0000	9.7252
	32 1,2-Dichloropropane	63	11.690	11.669	(1.073)	64255	10.0000	10.1545
	33 Bromodichloromethane	83	12.024	12.003	(1.104)	117208	10.0000	10.1673
	34 Dibromomethane	93	12.073	12.062	(1.108)	71089	10.0000	10.0628
	35 4-Methyl-2-Pentanone	43	12.575	12.554	(1.154)	61797	10.0000	9.4604
	36 Tetramethyl THF	43	12.772	12.761	(1.172)	138276	10.0000	9.6544
	37 cis-1,3-Dichloropropene	75	12.890	12.879	(1.183)	109502	10.0000	9.7855
$	38 Toluene-d8	98	13.382	13.370	(1.228)	1198605	50.0000	49.2105
	39 Toluene	92	13.510	13.498	(1.240)	147797	10.0000	10.2168
	40 trans-1,3-Dichloropropene	75	13.677	13.665	(1.256)	100997	10.0000	9.4074
	41 1,1,2-Trichloroethane	83	13.952	13.931	(1.281)	58423	10.0000	10.1417
	42 2-Hexanone	43	13.992	13.980	(0.879)	48459	10.0000	9.7259
	43 1,3-Dichloropropane	76	14.365	14.354	(0.903)	101991	10.0000	10.3108
	44 Tetrachloroethene	166	14.660	14.649	(0.921)	78880	10.0000	10.0875
	45 Dibromochloromethane	129	14.828	14.816	(0.932)	88042	10.0000	10.0589
	46 1,2-Dibromoethane	107	15.182	15.170	(1.394)	74720	10.0000	9.6599
*	47 Chlorobenzene-d5	117	15.910	15.898	(1.000)	969136	50.0000	
	48 Chlorobenzene	112	15.978	15.957	(1.004)	181490	10.0000	10.4881
	49 1,1,1,2-Tetrachloroethane	131	16.028	16.015	(1.007)	76476	10.0000	10.7246
	50 Ethylbenzene	91	16.106	16.085	(1.012)	292194	10.0000	10.3304
	51 m,p-Xylenes	106	16.244	16.233	(1.021)	204763	20.0000	21.0654
	52 o-Xylene	106	17.001	16.989	(1.069)	102780	10.0000	10.4659
	53 Styrene	104	17.021	17.010	(1.070)	175733	10.0000	10.2272
	54 Bromoform	173	17.523	17.501	(1.101)	70828	10.0000	9.4801
	55 Isopropylbenzene	105	17.651	17.639	(0.874)	256557	10.0000	10.1440
	56 1,1,2,2-Tetrachloroethane	83	17.808	17.797	(0.882)	94274	10.0000	10.0453
$	57 Bromofluorobenzene	95	18.024	18.013	(0.892)	562382	50.0000	49.3242
	58 1,2,3-Trichloropropane	110	18.064	18.062	(0.894)	25373	10.0000	10.2928
	59 Propylbenzene	91	18.378	18.367	(0.910)	336400	10.0000	10.3713
	60 Bromobenzene	156	18.378	18.367	(0.910)	92122	10.0000	10.4642
	61 2-Chlorotoluene	91	18.664	18.652	(0.924)	246130	10.0000	10.4934
	62 1,3,5-Trimethylbenzene	105	18.673	18.652	(0.925)	233692	10.0000	10.6144
	63 4-Chlorotoluene	91	18.752	18.741	(0.928)	242686	10.0000	10.6795
	64 tert-Butylbenzene	119	19.323	19.311	(0.957)	211636	10.0000	10.3108
	65 1,2,4-Trimethylbenzene	105	19.382	19.370	(0.960)	232205	10.0000	10.6018
	66 sec-Butylbenzene	105	19.716	19.705	(0.976)	289331	10.0000	10.4459
	67 para-Isopropyl Toluene	119	19.972	19.951	(0.989)	235834	10.0000	10.5485
	68 1,3-Dichlorobenzene	146	20.070	20.059	(0.994)	159496	10.0000	10.4843
*	69 1,4-Dichlorobenzene-d4	152	20.198	20.177	(1.000)	571972	50.0000	
	70 1,4-Dichlorobenzene	146	20.257	20.236	(1.003)	165950	10.0000	10.7113
	71 n-Butylbenzene	91	20.719	20.698	(1.026)	229152	10.0000	10.4857
	72 1,2-Dichlorobenzene	146	20.926	20.905	(1.036)	153766	10.0000	10.4906
	73 1,2-Dibromo-3-Chloropropane	75	22.264	22.252	(1.102)	19775	10.0000	9.8127
	74 1,2,4-Trichlorobenzene	180	23.798	23.787	(1.178)	99507	10.0000	10.7348
	75 Hexachlorobutadiene	225	24.083	24.072	(1.192)	71190	10.0000	10.1972
	76 Naphthalene	128	24.162	24.151	(1.196)	135188	10.0000	9.5920

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN15.D
Report Date: 24-Sep-2004 16:13

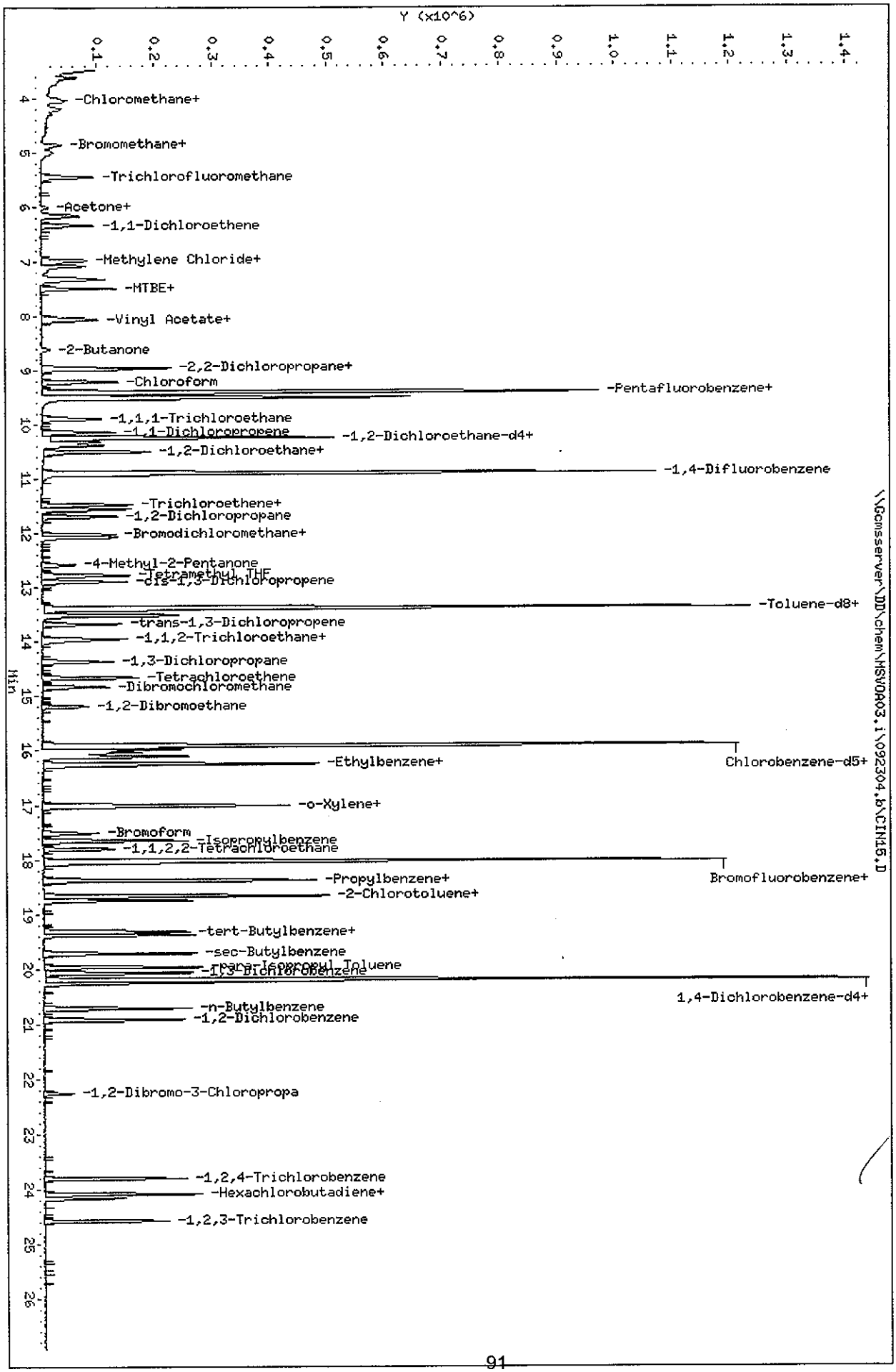
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.585	24.564	(1.217)	93290	10.0000	10.5385

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN15.D
Date : 23-SEP-2004 19:44
Client ID: DYNA P&T
Sample Info: ICAL,04SS352,0.002/100,04WSL756A,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

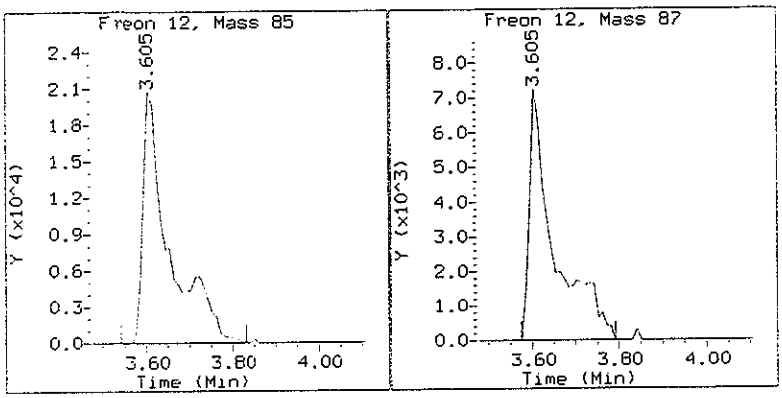
Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Signal Manual Integrations Report

Report Date: 09/24/2004 16:13

Datafile: //Gcmsserver/DD/chem/MSVOA03.i/092304.b/CIN15.D
Injection Date: 23-SEP-2004 19:44
Lab ID: Client ID:DYNA P&T



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN16.D
Report Date: 24-Sep-2004 16:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-SEP-2004 20:17 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS352,0.004/100,04WS1756A,0.008/100
Misc Info : 20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target Quant Type: ISTD
Cal Date : 23-SEP-2004 20:17 Cal File: CIN16.D
Als bottle: 16 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.613	3.603	(0.385)	175703	20.0000	20.7296(M)
2 Chloromethane	50	4.055	4.035	(0.432)	181033	20.0000	19.4823
3 Vinyl Chloride	62	4.183	4.174	(0.445)	126455	20.0000	20.8001
4 Bromomethane	94	4.862	4.852	(0.517)	88971	20.0000	19.9563
5 Chloroethane	64	4.990	4.980	(0.531)	82741	20.0000	19.5484
6 Trichlorofluoromethane	101	5.442	5.442	(0.579)	263612	20.0000	19.6440
7 Acetone	43	6.013	5.993	(0.640)	47470	20.0000	19.5011
8 Freon 113	101	6.160	6.151	(0.656)	140050	20.0000	21.2288
9 1,1-Dichloroethene	96	6.337	6.328	(0.674)	114672	20.0000	19.8448
10 Methylene Chloride	84	6.977	6.967	(0.742)	163652	20.0000	19.9820
11 Carbon Disulfide	76	7.075	7.065	(0.753)	397663	20.0000	20.0895
12 MTBE	73	7.311	7.302	(0.778)	400764	20.0000	19.8233
13 trans-1,2-Dichloroethene	96	7.488	7.479	(0.797)	144479	20.0000	20.3082
14 Vinyl Acetate	43	8.019	8.020	(0.853)	242974	20.0000	19.1061
15 1,1-Dichloroethane	63	8.058	8.048	(0.858)	258033	20.0000	20.0680
16 2-Butanone	43	8.609	8.600	(0.916)	65592	20.0000	19.2839
17 2,2-Dichloropropane	77	8.954	8.944	(0.953)	222139	20.0000	20.3039
18 cis-1,2-Dichloroethene	96	8.954	8.944	(0.953)	159082	20.0000	19.8040
19 Chloroform	83	9.199	9.190	(0.979)	313644	20.0000	19.8237
* 20 Pentafluorobenzene	168	9.396	9.387	(1.000)	949907	50.0000	
21 Bromochloromethane	128	9.406	9.397	(1.001)	96734	20.0000	20.0048
$ 22 Dibromofluoromethane	113	9.495	9.485	(1.010)	558098	50.0000	49.3672

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN16.D
Report Date: 24-Sep-2004 16:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.878	9.869	(1.051)	242319	20.0000	20.2542
	24 1,1-Dichloropropene	75	10.124	10.124	(0.930)	191668	20.0000	20.6139
$	25 1,2-Dichloroethane-d4	65	10.222	10.223	(0.939)	609231	50.0000	50.5324
	26 Carbon Tetrachloride	117	10.301	10.301	(0.947)	213740	20.0000	20.6213
	27 1,2-Dichloroethane	62	10.360	10.361	(0.952)	260856	20.0000	20.2277
	28 Benzene	78	10.488	10.479	(0.964)	486504	20.0000	20.1686
*	29 1,4-Difluorobenzene	114	10.881	10.872	(1.000)	1245907	50.0000	
	30 Trichloroethene	95	11.462	11.462	(1.053)	162407	20.0000	20.6285
$	31 Trifluorotoluene	146	11.540	11.541	(1.061)	223015	20.0000	20.9358
	32 1,2-Dichloropropane	63	11.678	11.669	(1.073)	133544	20.0000	20.2439
	33 Bromodichloromethane	83	12.013	12.003	(1.104)	242707	20.0000	20.1951
	34 Dibromomethane	93	12.062	12.062	(1.108)	148606	20.0000	20.1775
	35 4-Methyl-2-Pentanone	43	12.563	12.554	(1.155)	130286	20.0000	19.1317
	36 Tetramethyl THF	43	12.760	12.761	(1.173)	291598	20.0000	19.5289
	37 cis-1,3-Dichloropropene	75	12.878	12.879	(1.183)	229839	20.0000	19.7017
$	38 Toluene-d8	98	13.370	13.370	(1.229)	1261351	50.0000	49.6745
	39 Toluene	92	13.498	13.498	(1.240)	308204	20.0000	20.4364
	40 trans-1,3-Dichloropropene	75	13.665	13.665	(1.256)	219736	20.0000	19.6327
	41 1,1,2-Trichloroethane	83	13.940	13.931	(1.281)	118109	20.0000	19.6665
	42 2-Hexanone	43	13.970	13.980	(0.879)	101813	20.0000	19.0288
	43 1,3-Dichloropropane	76	14.354	14.354	(0.903)	210498	20.0000	19.8167
	44 Tetrachloroethene	166	14.649	14.649	(0.921)	177075	20.0000	21.0877
	45 Dibromochloromethane	129	14.816	14.816	(0.932)	183937	20.0000	19.5697
	46 1,2-Dibromoethane	107	15.170	15.170	(1.394)	159243	20.0000	19.7475
*	47 Chlorobenzene-d5	117	15.898	15.898	(1.000)	1040716	50.0000	
	48 Chlorobenzene	112	15.957	15.957	(1.004)	382497	20.0000	20.5839
	49 1,1,1,2-Tetrachloroethane	131	16.016	16.015	(1.007)	155472	20.0000	20.3032
	50 Ethylbenzene	91	16.085	16.085	(1.012)	621084	20.0000	20.4479
	51 m,p-Xylenes	106	16.232	16.233	(1.021)	427892	40.0000	40.9926
	52 o-Xylene	106	16.990	16.989	(1.069)	219691	20.0000	20.8320
	53 Styrene	104	17.009	17.010	(1.070)	382395	20.0000	20.7237
	54 Bromoform	173	17.501	17.501	(1.101)	157794	20.0000	19.6677
	55 Isopropylbenzene	105	17.639	17.639	(0.874)	562575	20.0000	21.0558
	56 1,1,2,2-Tetrachloroethane	83	17.796	17.797	(0.882)	199977	20.0000	20.1706
$	57 Bromofluorobenzene	95	18.013	18.013	(0.893)	605907	50.0000	50.3038
	58 1,2,3-Trichloropropane	110	18.062	18.062	(0.895)	53745	20.0000	20.6380
	59 Propylbenzene	91	18.367	18.367	(0.910)	720714	20.0000	21.0334
	60 Bromobenzene	156	18.367	18.367	(0.910)	196240	20.0000	21.1008
	61 2-Chlorotoluene	91	18.652	18.652	(0.924)	518504	20.0000	20.9253
	62 1,3,5-Trimethylbenzene	105	18.652	18.652	(0.924)	488293	20.0000	20.9943
	63 4-Chlorotoluene	91	18.731	18.741	(0.928)	499302	20.0000	20.7987
	64 tert-Butylbenzene	119	19.301	19.311	(0.957)	452606	20.0000	20.8734
	65 1,2,4-Trimethylbenzene	105	19.360	19.370	(0.960)	479660	20.0000	20.7304
	66 sec-Butylbenzene	105	19.704	19.705	(0.977)	610065	20.0000	20.8494
	67 para-Isopropyl Toluene	119	19.950	19.951	(0.989)	490808	20.0000	20.7809
	68 1,3-Dichlorobenzene	146	20.058	20.059	(0.994)	332301	20.0000	20.6770
*	69 1,4-Dichlorobenzene-d4	152	20.176	20.177	(1.000)	604238	50.0000	
	70 1,4-Dichlorobenzene	146	20.236	20.236	(1.003)	339623	20.0000	20.7505
	71 n-Butylbenzene	91	20.698	20.698	(1.026)	482699	20.0000	20.9082
	72 1,2-Dichlorobenzene	146	20.904	20.905	(1.036)	319446	20.0000	20.6304
	73 1,2-Dibromo-3-Chloropropane	75	22.242	22.252	(1.102)	43141	20.0000	20.2643
	74 1,2,4-Trichlorobenzene	180	23.786	23.787	(1.179)	204935	20.0000	20.9278
	75 Hexachlorobutadiene	225	24.072	24.072	(1.193)	161415	20.0000	21.8864
	76 Naphthalene	128	24.140	24.151	(1.196)	288862	20.0000	19.4013

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN16.D
Report Date: 24-Sep-2004 16:13

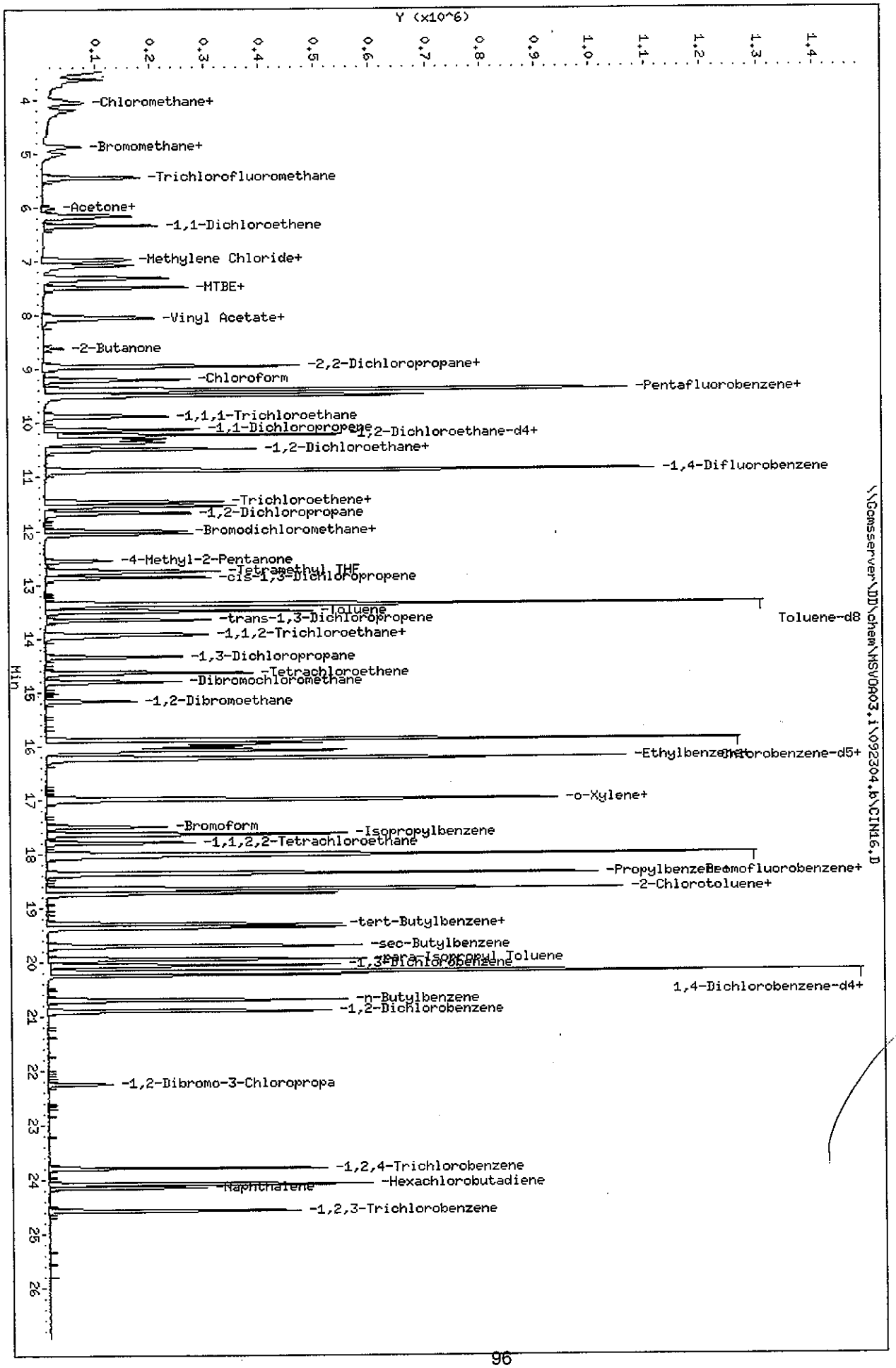
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.563	24.564	(1.217)	195166	20.0000	20.8696

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gomsserver\DD\chem\MSV0A03.i\092304.b\CIN16.D
Date : 23-SEP-2004 20:17
Client ID: DYNA P&T
Sample Info: ICAL,04SS352,0,004/100,04WS1756A,0,008/100
Purge Volume: 5.0
Column phase: RTx Volatiles

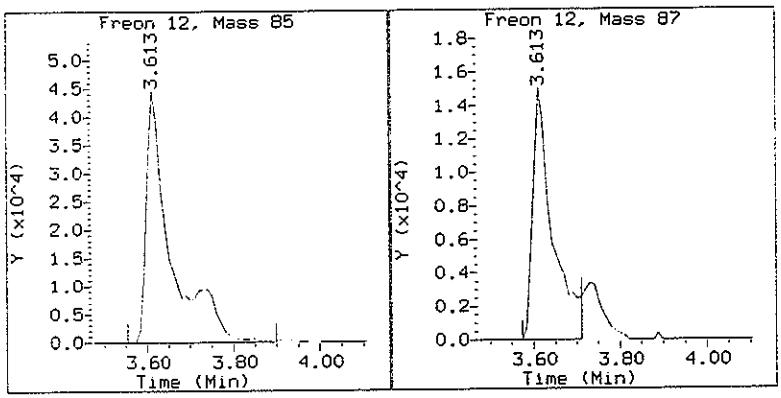
Instrument: MSV0A03.i
Operator: tw
Column diameter: 0.32



Signal Manual Integrations Report

Report Date: 09/24/2004 16:13

Datafile: //Gcmsserver/DD/chem/MSVOA03.i/092304.b/CIN16.D
Injection Date: 23-SEP-2004 20:17
Lab ID: Client ID:DYNA P&T



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN17.D
Report Date: 24-Sep-2004 16:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-SEP-2004 20:51 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS352,0.01/100,04WS1756A,0.02/100
Misc Info : 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target Quant Type: ISTD
Cal Date : 23-SEP-2004 20:51 Cal File: CIN17.D
Als bottle: 17 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.603	3.603	(0.384)	429869	50.0000	52.6193
2 Chloromethane	50	4.035	4.035	(0.430)	419627	50.0000	46.8537
3 Vinyl Chloride	62	4.173	4.174	(0.445)	280226	50.0000	47.8227
4 Bromomethane	94	4.852	4.852	(0.517)	209222	50.0000	48.6894
5 Chloroethane	64	4.989	4.980	(0.532)	196338	50.0000	48.1272
6 Trichlorofluoromethane	101	5.442	5.442	(0.580)	634471	50.0000	49.0539
7 Acetone	43	6.003	5.993	(0.640)	113495	50.0000	48.3740
8 Freon 113	101	6.150	6.151	(0.655)	318879	50.0000	50.1493
9 1,1-Dichloroethene	96	6.327	6.328	(0.674)	272714	50.0000	48.9658
10 Methylene Chloride	84	6.967	6.967	(0.742)	382748	50.0000	48.4873
11 Carbon Disulfide	76	7.075	7.065	(0.754)	942927	50.0000	49.4230
12 MTBE	73	7.301	7.302	(0.778)	953695	50.0000	48.9432
13 trans-1,2-Dichloroethene	96	7.478	7.479	(0.797)	329770	50.0000	48.0923
14 Vinyl Acetate	43	8.019	8.020	(0.854)	610251	50.0000	49.7873
15 1,1-Dichloroethane	63	8.058	8.048	(0.859)	598896	50.0000	48.3256
16 2-Butanone	43	8.599	8.600	(0.916)	159981	50.0000	48.7989
17 2,2-Dichloropropane	77	8.953	8.944	(0.954)	516092	50.0000	48.9416
18 cis-1,2-Dichloroethene	96	8.944	8.944	(0.953)	376872	50.0000	48.6769
19 Chloroform	83	9.199	9.190	(0.980)	740795	50.0000	48.5784
* 20 Pentafluorobenzene	168	9.386	9.387	(1.000)	915556	50.0000	
21 Bromochloromethane	128	9.396	9.397	(1.001)	231127	50.0000	49.5909
$ 22 Dibromofluoromethane	113	9.485	9.485	(1.010)	550076	50.0000	50.4832

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN17.D
Report Date: 24-Sep-2004 16:13

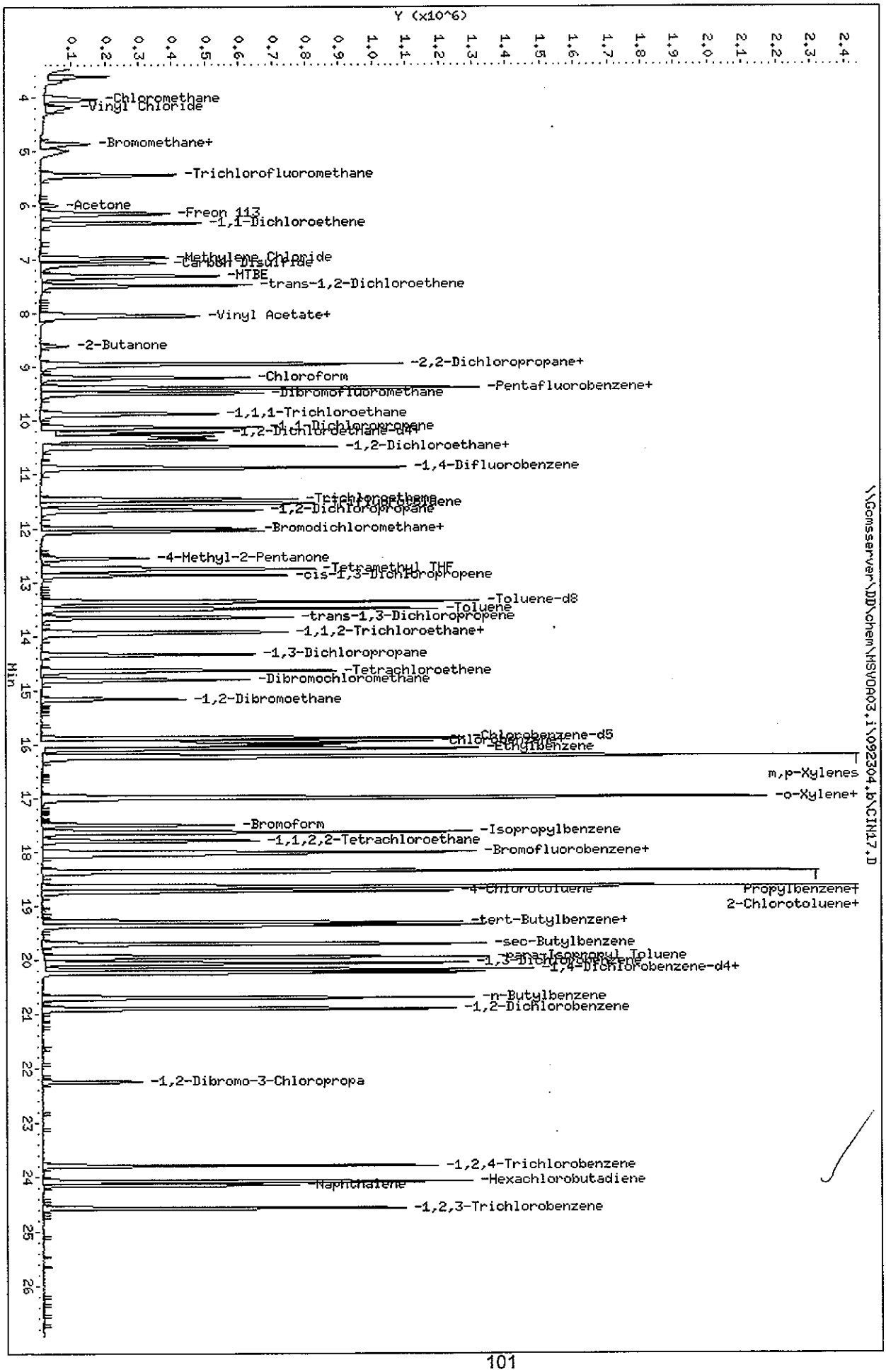
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 1,1,1-Trichloroethane	97	9.878	9.869	(1.052)	570224	50.0000	49.4503
24 1,1-Dichloropropene	75	10.124	10.124	(0.930)	460102	50.0000	50.3945
$ 25 1,2-Dichloroethane-d4	65	10.222	10.223	(0.939)	591644	50.0000	49.9767
26 Carbon Tetrachloride	117	10.301	10.301	(0.947)	514224	50.0000	50.5245
27 1,2-Dichloroethane	62	10.360	10.361	(0.952)	625118	50.0000	49.3660
28 Benzene	78	10.488	10.479	(0.964)	1158018	50.0000	48.8904
* 29 1,4-Difluorobenzene	114	10.881	10.872	(1.000)	1223395	50.0000	
30 Trichloroethene	95	11.462	11.462	(1.053)	384109	50.0000	49.6863
$ 31 Trifluorotoluene	146	11.540	11.541	(1.061)	527068	50.0000	50.3896
32 1,2-Dichloropropane	63	11.668	11.669	(1.072)	314328	50.0000	48.5258
33 Bromodichloromethane	83	12.003	12.003	(1.103)	590327	50.0000	50.0238
34 Dibromomethane	93	12.052	12.062	(1.108)	362926	50.0000	50.1845
35 4-Methyl-2-Pentanone	43	12.563	12.554	(1.155)	343552	50.0000	51.3770
36 Tetramethyl THF	43	12.760	12.761	(1.173)	753045	50.0000	51.3610
37 cis-1,3-Dichloropropene	75	12.878	12.879	(1.183)	580955	50.0000	50.7156
$ 38 Toluene-d8	98	13.370	13.370	(1.229)	1254984	50.0000	50.3332
39 Toluene	92	13.498	13.498	(1.240)	746128	50.0000	50.3847
40 trans-1,3-Dichloropropene	75	13.665	13.665	(1.256)	566931	50.0000	51.5856
41 1,1,2-Trichloroethane	83	13.930	13.931	(1.280)	297254	50.0000	50.4071
42 2-Hexanone	43	13.980	13.980	(0.880)	268850	50.0000	50.4552
43 1,3-Dichloropropane	76	14.344	14.354	(0.903)	528504	50.0000	49.9597
44 Tetrachloroethene	166	14.648	14.649	(0.922)	413729	50.0000	49.4738
45 Dibromochloromethane	129	14.806	14.816	(0.932)	479653	50.0000	51.2426
46 1,2-Dibromoethane	107	15.170	15.170	(1.394)	408112	50.0000	51.5407
* 47 Chlorobenzene-d5	117	15.888	15.898	(1.000)	1036441	50.0000	
48 Chlorobenzene	112	15.957	15.957	(1.004)	914567	50.0000	49.4201
49 1,1,1,2-Tetrachloroethane	131	16.016	16.015	(1.008)	373943	50.0000	49.0349
50 Ethylbenzene	91	16.085	16.085	(1.012)	1473360	50.0000	48.7075
51 m,p-Xylenes	106	16.232	16.233	(1.022)	1021387	100.000	98.2538
52 o-Xylene	106	16.989	16.989	(1.069)	511284	50.0000	48.6822
53 Styrene	104	17.009	17.010	(1.071)	923328	50.0000	50.2458
54 Bromoform	173	17.501	17.501	(1.102)	415083	50.0000	51.9501
55 Isopropylbenzene	105	17.639	17.639	(0.874)	1337184	50.0000	50.4090
56 1,1,2,2-Tetrachloroethane	83	17.796	17.797	(0.882)	496364	50.0000	50.4270
$ 57 Bromofluorobenzene	95	18.012	18.013	(0.893)	601516	50.0000	50.2998
58 1,2,3-Trichloropropane	110	18.052	18.062	(0.895)	129455	50.0000	50.0695
59 Propylbenzene	91	18.367	18.367	(0.910)	1693544	50.0000	49.7815
60 Bromobenzene	156	18.367	18.367	(0.910)	460877	50.0000	49.9140
61 2-Chlorotoluene	91	18.652	18.652	(0.924)	1209349	50.0000	49.1583
62 1,3,5-Trimethylbenzene	105	18.652	18.652	(0.924)	1142447	50.0000	49.4746
63 4-Chlorotoluene	91	18.730	18.741	(0.928)	1163207	50.0000	48.8040
64 tert-Butylbenzene	119	19.301	19.311	(0.957)	1077440	50.0000	50.0484
65 1,2,4-Trimethylbenzene	105	19.360	19.370	(0.960)	1146534	50.0000	49.9098
66 sec-Butylbenzene	105	19.704	19.705	(0.977)	1449473	50.0000	49.8946
67 para-Isopropyl Toluene	119	19.950	19.951	(0.989)	1153204	50.0000	49.1794
68 1,3-Dichlorobenzene	146	20.058	20.059	(0.994)	790982	50.0000	49.5733
* 69 1,4-Dichlorobenzene-d4	152	20.176	20.177	(1.000)	599907	50.0000	
70 1,4-Dichlorobenzene	146	20.235	20.236	(1.003)	794336	50.0000	48.8832
71 n-Butylbenzene	91	20.698	20.698	(1.026)	1135707	50.0000	49.5487
72 1,2-Dichlorobenzene	146	20.904	20.905	(1.036)	764323	50.0000	49.7177
73 1,2-Dibromo-3-Chloropropane	75	22.242	22.252	(1.102)	106778	50.0000	50.5181
74 1,2,4-Trichlorobenzene	180	23.786	23.787	(1.179)	476494	50.0000	49.0104
75 Hexachlorobutadiene	225	24.071	24.072	(1.193)	360687	50.0000	49.2589
76 Naphthalene	128	24.140	24.151	(1.196)	759678	50.0000	51.3919

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN17.D
Report Date: 24-Sep-2004 16:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.563	24.564	(1.217)	452208	50.0000	48.7050

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN17.D
Date : 23-SEP-2004 20:51
Client ID: DYNA P&T
Sample Info: ICAL,04SS352,0,01/100,04WS1756A,0,02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN18.D
Report Date: 24-Sep-2004 16:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN18.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-SEP-2004 21:25 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS352,0.012/100,04WS1756A,0.024/100
Misc Info : 60PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target Quant Type: ISTD
Cal Date : 23-SEP-2004 21:25 Cal File: CIN18.D
Als bottle: 18 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.612	3.603	(0.385)	568547	60.0000	66.6980
2 Chloromethane	50	4.045	4.035	(0.431)	555443	60.0000	59.4371
3 Vinyl Chloride	62	4.172	4.174	(0.445)	357246	60.0000	58.4293
4 Bromomethane	94	4.851	4.852	(0.517)	265598	60.0000	59.2365
5 Chloroethane	64	4.999	4.980	(0.533)	257758	60.0000	60.5530
6 Trichlorofluoromethane	101	5.441	5.442	(0.580)	834002	60.0000	61.7968
7 Acetone	43	6.002	5.993	(0.640)	142412	60.0000	58.1728
8 Freon 113	101	6.150	6.151	(0.655)	402512	60.0000	60.6673
9 1,1-Dichloroethene	96	6.327	6.328	(0.674)	347892	60.0000	59.8642
10 Methylene Chloride	84	6.966	6.967	(0.742)	486995	60.0000	59.1258
11 Carbon Disulfide	76	7.074	7.065	(0.754)	1216887	60.0000	61.1278
12 MTBE	73	7.310	7.302	(0.779)	1228489	60.0000	60.4216
13 trans-1,2-Dichloroethene	96	7.477	7.479	(0.797)	416683	60.0000	58.2381
14 Vinyl Acetate	43	8.018	8.020	(0.854)	810751	60.0000	63.3920
15 1,1-Dichloroethane	63	8.058	8.048	(0.859)	760181	60.0000	58.7869
16 2-Butanone	43	8.599	8.600	(0.916)	209887	60.0000	61.3571
17 2,2-Dichloropropane	77	8.943	8.944	(0.953)	655315	60.0000	59.5578
18 cis-1,2-Dichloroethene	96	8.953	8.944	(0.954)	472542	60.0000	58.4934
19 Chloroform	83	9.189	9.190	(0.979)	939275	60.0000	59.0304
* 20 Pentafluorobenzene	168	9.386	9.387	(1.000)	955317	50.0000	
21 Bromochloromethane	128	9.405	9.397	(1.002)	291093	60.0000	59.8577
$ 22 Dibromofluoromethane	113	9.494	9.485	(1.012)	568023	50.0000	49.9606

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN18.D
Report Date: 24-Sep-2004 16:13

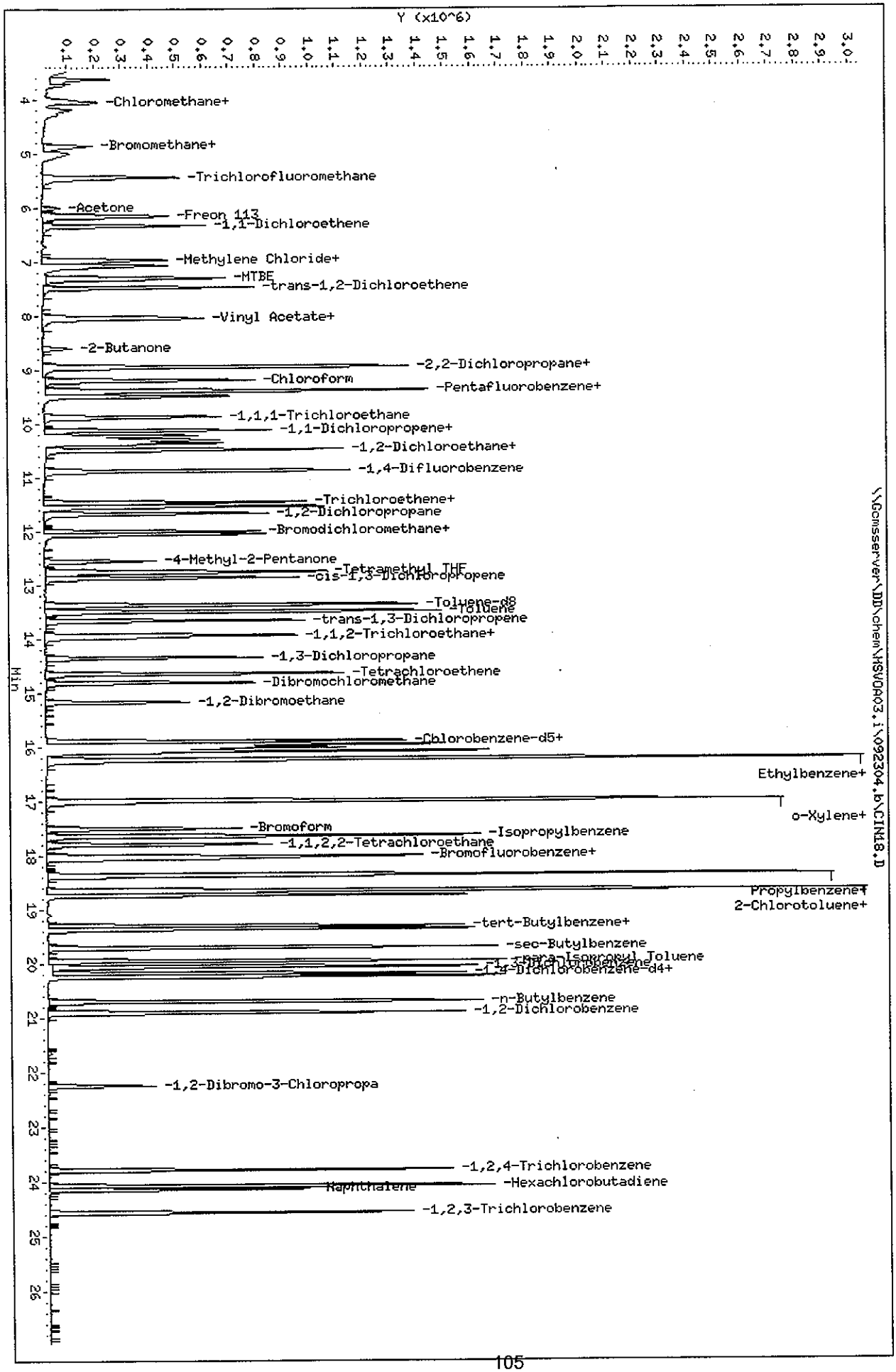
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.877	9.869	(1.052)	723963	60.0000	60.1696
	24 1,1-Dichloropropene	75	10.123	10.124	(0.930)	578104	60.0000	59.6062
$	25 1,2-Dichloroethane-d4	65	10.222	10.223	(0.939)	621009	50.0000	49.3811
	26 Carbon Tetrachloride	117	10.300	10.301	(0.947)	656728	60.0000	60.7424
	27 1,2-Dichloroethane	62	10.359	10.361	(0.952)	795751	60.0000	59.1561
	28 Benzene	78	10.487	10.479	(0.964)	1462427	60.0000	58.1217
*	29 1,4-Difluorobenzene	114	10.881	10.872	(1.000)	1299603	50.0000	
	30 Trichloroethene	95	11.461	11.462	(1.053)	488030	60.0000	59.4272
$	31 Trifluorotoluene	146	11.540	11.541	(1.061)	665177	60.0000	59.8643
	32 1,2-Dichloropropane	63	11.668	11.669	(1.072)	410082	60.0000	59.5959
	33 Bromodichloromethane	83	12.012	12.003	(1.104)	750378	60.0000	59.8577
	34 Dibromomethane	93	12.051	12.062	(1.108)	455036	60.0000	59.2316
	35 4-Methyl-2-Pentanone	43	12.553	12.554	(1.154)	448517	60.0000	63.1410
	36 Tetramethyl THF	43	12.759	12.761	(1.173)	969782	60.0000	62.2648
	37 cis-1,3-Dichloropropene	75	12.877	12.879	(1.184)	744932	60.0000	61.2169
$	38 Toluene-d8	98	13.369	13.370	(1.229)	1333316	50.0000	50.3391
	39 Toluene	92	13.497	13.498	(1.240)	931660	60.0000	59.2242
	40 trans-1,3-Dichloropropene	75	13.664	13.665	(1.256)	734559	60.0000	62.9189
	41 1,1,2-Trichloroethane	83	13.930	13.931	(1.280)	381098	60.0000	60.8355
	42 2-Hexanone	43	13.979	13.980	(0.879)	353131	60.0000	62.7638
	43 1,3-Dichloropropane	76	14.353	14.354	(0.903)	677797	60.0000	60.6804
	44 Tetrachloroethene	166	14.648	14.649	(0.921)	520502	60.0000	58.9467
	45 Dibromochloromethane	129	14.815	14.816	(0.932)	615261	60.0000	62.2502
	46 1,2-Dibromoethane	107	15.169	15.170	(1.394)	518979	60.0000	61.6988
*	47 Chlorobenzene-d5	117	15.897	15.898	(1.000)	1094377	50.0000	
	48 Chlorobenzene	112	15.956	15.957	(1.004)	1136292	60.0000	58.1508
	49 1,1,1,2-Tetrachloroethane	131	16.015	16.015	(1.007)	474173	60.0000	58.8863
	50 Ethylbenzene	91	16.084	16.085	(1.012)	1877518	60.0000	58.7826
	51 m,p-Xylenes	106	16.231	16.233	(1.021)	1295150	120.000	117.9932
	52 o-Xylene	106	16.989	16.989	(1.069)	651721	60.0000	58.7689
	53 Styrene	104	17.009	17.010	(1.070)	1168616	60.0000	60.2273
	54 Bromoform	173	17.500	17.501	(1.101)	533142	60.0000	63.1935
	55 Isopropylbenzene	105	17.638	17.639	(0.874)	1692310	60.0000	59.1234
	56 1,1,2,2-Tetrachloroethane	83	17.795	17.797	(0.882)	639974	60.0000	60.2543
$	57 Bromofluorobenzene	95	18.012	18.013	(0.892)	657282	50.0000	50.9370
	58 1,2,3-Trichloropropane	110	18.051	18.062	(0.894)	167558	60.0000	60.0597
	59 Propylbenzene	91	18.366	18.367	(0.910)	2133076	60.0000	58.1086
	60 Bromobenzene	156	18.366	18.367	(0.910)	576055	60.0000	57.8181
	61 2-Chlorotoluene	91	18.651	18.652	(0.924)	1542882	60.0000	58.1220
	62 1,3,5-Trimethylbenzene	105	18.651	18.652	(0.924)	1429616	60.0000	57.3757
	63 4-Chlorotoluene	91	18.730	18.741	(0.928)	1494953	60.0000	58.1285
	64 tert-Butylbenzene	119	19.310	19.311	(0.957)	1362015	60.0000	58.6330
	65 1,2,4-Trimethylbenzene	105	19.369	19.370	(0.960)	1419240	60.0000	57.2556
	66 sec-Butylbenzene	105	19.704	19.705	(0.976)	1843648	60.0000	58.8145
	67 para-Isopropyl Toluene	119	19.949	19.951	(0.988)	1465921	60.0000	57.9363
	68 1,3-Dichlorobenzene	146	20.058	20.059	(0.994)	1008605	60.0000	58.5821
*	69 1,4-Dichlorobenzene-d4	152	20.186	20.177	(1.000)	647323	50.0000	
	70 1,4-Dichlorobenzene	146	20.235	20.236	(1.002)	1002977	60.0000	57.2018
	71 n-Butylbenzene	91	20.697	20.698	(1.025)	1437445	60.0000	58.1192
	72 1,2-Dichlorobenzene	146	20.904	20.905	(1.036)	970860	60.0000	58.5267
	73 1,2-Dibromo-3-Chloropropane	75	22.241	22.252	(1.102)	147777	60.0000	64.7941
	74 1,2,4-Trichlorobenzene	180	23.786	23.787	(1.178)	596508	60.0000	56.8605
	75 Hexachlorobutadiene	225	24.071	24.072	(1.192)	475769	60.0000	60.2162
	76 Naphthalene	128	24.140	24.151	(1.196)	976489	60.0000	61.2203

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN18.D
Report Date: 24-Sep-2004 16:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.563	24.564	(1.217)	577082	60.0000	57.6018

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN18.D
Date : 23-SEP-2004 21:25
Client ID: DYNA P&T
Sample Info: ICAL,04SS352,0.012/100,04MS1756A,0.024/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN19.D
Report Date: 24-Sep-2004 16:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-SEP-2004 21:58 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS352,0.015/100,04WS1756A,0.03/100
Misc Info : 75PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target Quant Type: ISTD
Cal Date : 23-SEP-2004 21:58 Cal File: CIN19.D
Als bottle: 19 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.605	3.603	(0.384)	565390	75.0000	68.3531
2 Chloromethane	50	4.038	4.035	(0.431)	624306	75.0000	68.8461
3 Vinyl Chloride	62	4.166	4.174	(0.444)	359479	75.0000	60.5900
4 Bromomethane	94	4.845	4.852	(0.517)	303480	75.0000	69.7524
5 Chloroethane	64	4.983	4.980	(0.531)	281538	75.0000	68.1593
6 Trichlorofluoromethane	101	5.435	5.442	(0.579)	870719	75.0000	66.4877
7 Acetone	43	5.996	5.993	(0.639)	174135	75.0000	73.3033
8 Freon 113	101	6.143	6.151	(0.655)	463296	75.0000	71.9612
9 1,1-Dichloroethene	96	6.330	6.328	(0.675)	397574	75.0000	70.5025
10 Methylene Chloride	84	6.960	6.967	(0.742)	564936	75.0000	70.6832
11 Carbon Disulfide	76	7.068	7.065	(0.754)	1402703	75.0000	72.6136
12 MTBE	73	7.304	7.302	(0.779)	1454122	75.0000	73.7031
13 trans-1,2-Dichloroethene	96	7.481	7.479	(0.798)	489724	75.0000	70.5370
14 Vinyl Acetate	43	8.012	8.020	(0.854)	951381	75.0000	76.6595
15 1,1-Dichloroethane	63	8.051	8.048	(0.858)	891673	75.0000	71.0613
16 2-Butanone	43	8.592	8.600	(0.916)	252662	75.0000	76.1172
17 2,2-Dichloropropane	77	8.946	8.944	(0.954)	753755	75.0000	70.5965
18 cis-1,2-Dichloroethene	96	8.946	8.944	(0.954)	547271	75.0000	69.8125
19 Chloroform	83	9.192	9.190	(0.980)	1090646	75.0000	70.6368
* 20 Pentafluorobenzene	168	9.379	9.387	(1.000)	927008	50.0000	
21 Bromochloromethane	128	9.399	9.397	(1.002)	333178	75.0000	70.6039
$ 22 Dibromofluoromethane	113	9.487	9.485	(1.012)	542905	50.0000	49.2095

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN19.D
Report Date: 24-Sep-2004 16:13

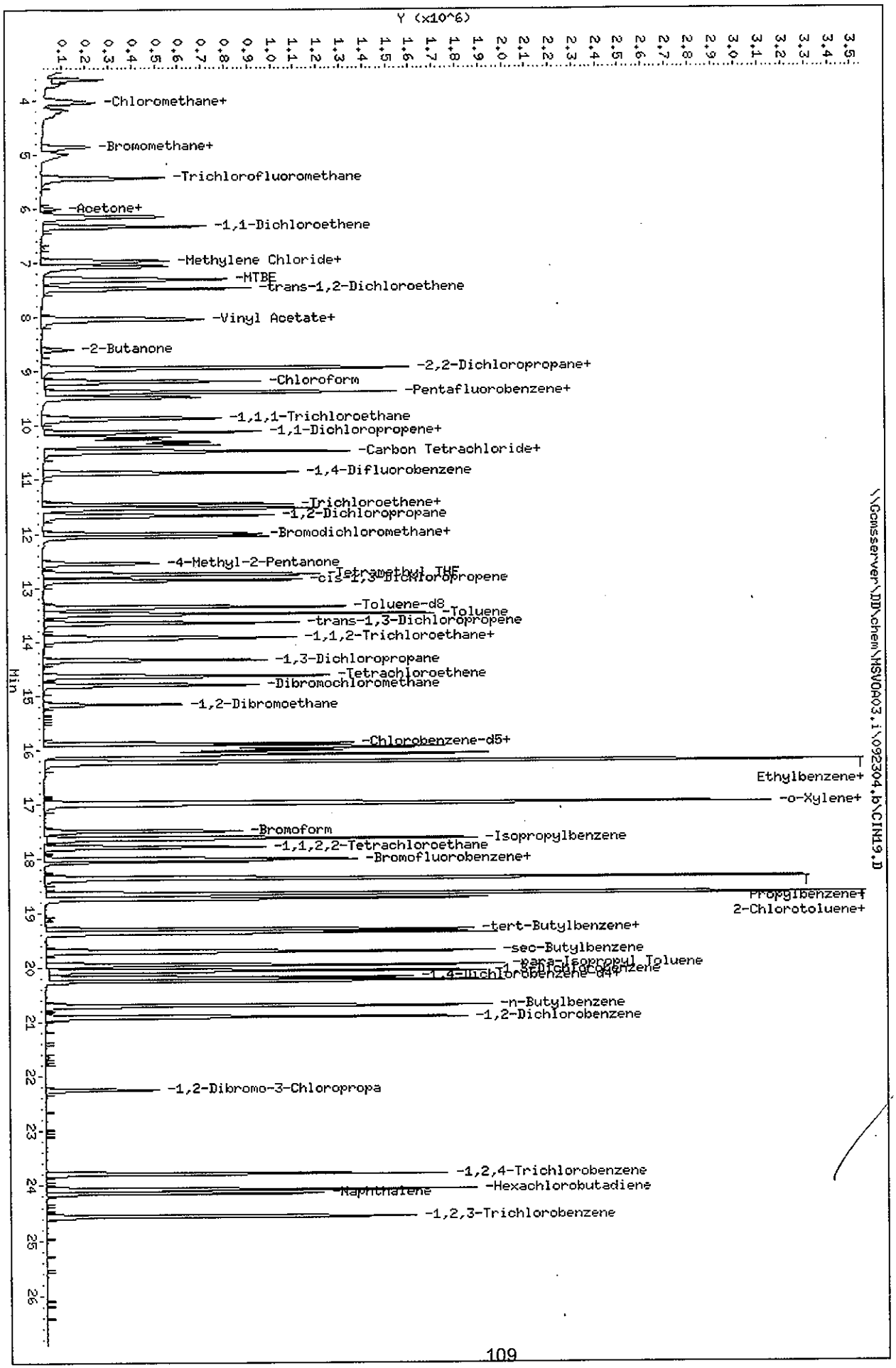
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.871	9.869	(1.052)	825052	75.0000	70.6653
	24 1,1-Dichloropropene	75	10.127	10.124	(0.931)	656040	75.0000	70.7556
$	25 1,2-Dichloroethane-d4	65	10.225	10.223	(0.940)	597735	50.0000	49.7183
	26 Carbon Tetrachloride	117	10.304	10.301	(0.948)	736193	75.0000	71.2267
	27 1,2-Dichloroethane	62	10.363	10.361	(0.953)	912239	75.0000	70.9375
	28 Benzene	78	10.481	10.479	(0.964)	1702924	75.0000	70.7953
*	29 1,4-Difluorobenzene	114	10.874	10.872	(1.000)	1242412	50.0000	
	30 Trichloroethene	95	11.455	11.462	(1.053)	553530	75.0000	70.5058
$	31 Trifluorotoluene	146	11.533	11.541	(1.061)	745513	75.0000	70.1828
	32 1,2-Dichloropropane	63	11.671	11.669	(1.073)	485688	75.0000	73.8326
	33 Bromodichloromethane	83	12.005	12.003	(1.104)	873395	75.0000	72.8779
	34 Dibromomethane	93	12.055	12.062	(1.109)	532815	75.0000	72.5486
	35 4-Methyl-2-Pentanone	43	12.556	12.554	(1.155)	532420	75.0000	78.4029
	36 Tetramethyl THF	43	12.753	12.761	(1.173)	1131319	75.0000	75.9800
	37 cis-1,3-Dichloropropene	75	12.871	12.879	(1.184)	859207	75.0000	73.8580
$	38 Toluene-d8	98	13.363	13.370	(1.229)	1284049	50.0000	50.7107
	39 Toluene	92	13.501	13.498	(1.241)	1075807	75.0000	71.5354
	40 trans-1,3-Dichloropropene	75	13.658	13.665	(1.256)	845963	75.0000	75.7968
	41 1,1,2-Trichloroethane	83	13.933	13.931	(1.281)	443880	75.0000	74.1192
	42 2-Hexanone	43	13.973	13.980	(0.879)	416081	75.0000	75.8767
	43 1,3-Dichloropropane	76	14.346	14.354	(0.903)	789681	75.0000	72.5367
	44 Tetrachloroethene	166	14.642	14.649	(0.921)	591976	75.0000	68.7858
	45 Dibromochloromethane	129	14.809	14.816	(0.932)	684422	75.0000	71.0498
	46 1,2-Dibromoethane	107	15.173	15.170	(1.395)	600433	75.0000	74.6684
*	47 Chlorobenzene-d5	117	15.891	15.898	(1.000)	1066620	50.0000	
	48 Chlorobenzene	112	15.960	15.957	(1.004)	1330253	75.0000	69.8485
	49 1,1,1,2-Tetrachloroethane	131	16.019	16.015	(1.008)	541529	75.0000	69.0011
	50 Ethylbenzene	91	16.087	16.085	(1.012)	2174113	75.0000	69.8399
	51 m,p-Xylenes	106	16.235	16.233	(1.022)	1461171	150.000	136.5825
	52 o-Xylene	106	16.982	16.989	(1.069)	752490	75.0000	69.6215
	53 Styrene	104	17.002	17.010	(1.070)	1331557	75.0000	70.4107
	54 Bromoform	173	17.504	17.501	(1.102)	629137	75.0000	76.5124
	55 Isopropylbenzene	105	17.642	17.639	(0.874)	1935673	75.0000	68.6297
	56 1,1,2,2-Tetrachloroethane	83	17.789	17.797	(0.882)	752363	75.0000	71.8875
$	57 Bromofluorobenzene	95	18.015	18.013	(0.893)	626644	50.0000	49.2837
	58 1,2,3-Trichloropropane	110	18.055	18.062	(0.895)	193790	75.0000	70.4936
	59 Propylbenzene	91	18.369	18.367	(0.910)	2481817	75.0000	68.6127
	60 Bromobenzene	156	18.369	18.367	(0.910)	664025	75.0000	67.6371
	61 2-Chlorotoluene	91	18.655	18.652	(0.924)	1805618	75.0000	69.0295
	62 1,3,5-Trimethylbenzene	105	18.655	18.652	(0.924)	1672094	75.0000	68.1036
	63 4-Chlorotoluene	91	18.733	18.741	(0.928)	1733269	75.0000	68.3955
	64 tert-Butylbenzene	119	19.304	19.311	(0.957)	1567552	75.0000	68.4830
	65 1,2,4-Trimethylbenzene	105	19.363	19.370	(0.960)	1682193	75.0000	68.8713
	66 sec-Butylbenzene	105	19.707	19.705	(0.977)	2123034	75.0000	68.7327
	67 para-Isopropyl Toluene	119	19.953	19.951	(0.989)	1719696	75.0000	68.9751
	68 1,3-Dichlorobenzene	146	20.061	20.059	(0.994)	1162186	75.0000	68.5047
*	69 1,4-Dichlorobenzene-d4	152	20.179	20.177	(1.000)	637853	50.0000	
	70 1,4-Dichlorobenzene	146	20.238	20.236	(1.003)	1171947	75.0000	67.8308
	71 n-Butylbenzene	91	20.701	20.698	(1.026)	1711880	75.0000	70.2429
	72 1,2-Dichlorobenzene	146	20.907	20.905	(1.036)	1136986	75.0000	69.5589
	73 1,2-Dibromo-3-Chloropropane	75	22.245	22.252	(1.102)	170550	75.0000	75.8893
	74 1,2,4-Trichlorobenzene	180	23.789	23.787	(1.179)	714043	75.0000	69.0747
	75 Hexachlorobutadiene	225	24.074	24.072	(1.193)	526783	75.0000	67.6627
	76 Naphthalene	128	24.143	24.151	(1.196)	1199133	75.0000	76.2949

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN19.D
Report Date: 24-Sep-2004 16:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.566	24.564	(1.217)	688026	75.0000	69.6953

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN19.D
Date : 23-SEP-2004 21:58
Client ID: DYNA P&T
Sample Info: ICAL.04SS352,0.015/100,04WS1756A,0.03/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN20.D
Report Date: 24-Sep-2004 16:13

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN20.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-SEP-2004 22:32 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS352,0.02/100,04WS1756A,0.04/100
Misc Info : 100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 20 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.603	3.603	(0.384)	904616	100.000	104.1582(M)
2 Chloromethane	50	4.035	4.035	(0.430)	912133	100.000	98.8326
3 Vinyl Chloride	62	4.173	4.174	(0.445)	511386	100.000	84.6908
4 Bromomethane	94	4.852	4.852	(0.517)	435180	100.000	98.2784
5 Chloroethane	64	4.980	4.980	(0.531)	410608	100.000	97.6732
6 Trichlorofluoromethane	101	5.442	5.442	(0.580)	1363596	100.000	102.3078
7 Acetone	43	5.993	5.993	(0.638)	234931	100.000	97.1712
8 Freon 113	101	6.150	6.151	(0.655)	675768	100.000	103.1330
9 1,1-Dichloroethene	96	6.327	6.328	(0.674)	589676	100.000	102.7449
10 Methylene Chloride	84	6.967	6.967	(0.742)	793285	100.000	97.5228
11 Carbon Disulfide	76	7.065	7.065	(0.753)	2022299	100.000	102.8626
12 MTBE	73	7.301	7.302	(0.778)	2042374	100.000	101.7138
13 trans-1,2-Dichloroethene	96	7.478	7.479	(0.797)	689961	100.000	97.6450
14 Vinyl Acetate	43	8.019	8.020	(0.854)	1394722	100.000	110.4229
15 1,1-Dichloroethane	63	8.049	8.048	(0.857)	1247674	100.000	97.6987
16 2-Butanone	43	8.599	8.600	(0.916)	345722	100.000	102.3364
17 2,2-Dichloropropane	77	8.944	8.944	(0.953)	1077327	100.000	99.1427
18 cis-1,2-Dichloroethene	96	8.944	8.944	(0.953)	784629	100.000	98.3456
19 Chloroform	83	9.190	9.190	(0.979)	1505735	100.000	95.8199
* 20 Pentafluorobenzene	168	9.386	9.387	(1.000)	943460	50.0000	
21 Bromochloromethane	128	9.396	9.397	(1.001)	475999	100.000	99.1103
$ 22 Dibromofluoromethane	113	9.485	9.485	(1.010)	572231	50.0000	50.9632

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN20.D
Report Date: 24-Sep-2004 16:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.868	9.869	(1.051)	1195491	100.000	100.6078
	24 1,1-Dichloropropene	75	10.124	10.124	(0.931)	962720	100.000	100.0802
$	25 1,2-Dichloroethane-d4	65	10.222	10.223	(0.940)	607461	50.0000	48.7017
	26 Carbon Tetrachloride	117	10.301	10.301	(0.948)	1083397	100.000	101.0315
	27 1,2-Dichloroethane	62	10.360	10.361	(0.953)	1275098	100.000	95.5715
	28 Benzene	78	10.478	10.479	(0.964)	2396702	100.000	96.0376
*	29 1,4-Difluorobenzene	114	10.871	10.872	(1.000)	1288985	50.0000	
	30 Trichloroethene	95	11.462	11.462	(1.054)	786170	100.000	96.5201
$	31 Trifluorotoluene	146	11.540	11.541	(1.062)	1094237	100.000	99.2899
	32 1,2-Dichloropropane	63	11.668	11.669	(1.073)	681165	100.000	99.8071
	33 Bromodichloromethane	83	12.003	12.003	(1.104)	1227872	100.000	98.7543
	34 Dibromomethane	93	12.062	12.062	(1.109)	744441	100.000	97.7014
	35 4-Methyl-2-Pentanone	43	12.553	12.554	(1.155)	741233	100.000	105.2083
	36 Tetramethyl THF	43	12.760	12.761	(1.174)	1621891	100.000	104.9913
	37 cis-1,3-Dichloropropene	75	12.878	12.879	(1.185)	1225367	100.000	101.5276
$	38 Toluene-d8	98	13.370	13.370	(1.230)	1342415	50.0000	51.1002
	39 Toluene	92	13.498	13.498	(1.242)	1536442	100.000	98.4738
	40 trans-1,3-Dichloropropene	75	13.665	13.665	(1.257)	1185083	100.000	102.3449
	41 1,1,2-Trichloroethane	83	13.931	13.931	(1.281)	619312	100.000	99.6765
	42 2-Hexanone	43	13.980	13.980	(0.879)	582262	100.000	102.3261
	43 1,3-Dichloropropane	76	14.353	14.354	(0.903)	1101909	100.000	97.5415
	44 Tetrachloroethene	166	14.649	14.649	(0.921)	848285	100.000	94.9890
	45 Dibromochloromethane	129	14.816	14.816	(0.932)	1010824	100.000	101.1233
	46 1,2-Dibromoethane	107	15.170	15.170	(1.395)	850883	100.000	101.9906
*	47 Chlorobenzene-d5	117	15.898	15.898	(1.000)	1106809	50.0000	
	48 Chlorobenzene	112	15.957	15.957	(1.004)	1872843	100.000	94.7679
	49 1,1,1,2-Tetrachloroethane	131	16.016	16.015	(1.007)	774918	100.000	95.1541
	50 Ethylbenzene	91	16.085	16.085	(1.012)	3096838	100.000	95.8688
	51 m,p-Xylenes	106	16.232	16.233	(1.021)	2068053	200.000	186.2914
	52 o-Xylene	106	16.990	16.989	(1.069)	1057381	100.000	94.2783
	53 Styrene	104	17.009	17.010	(1.070)	1869227	100.000	95.2528
	54 Bromoform	173	17.501	17.501	(1.101)	889057	100.000	104.1966
	55 Isopropylbenzene	105	17.639	17.639	(0.874)	2800562	100.000	96.5094
	56 1,1,2,2-Tetrachloroethane	83	17.796	17.797	(0.882)	1072161	100.000	99.5704
$	57 Bromofluorobenzene	95	18.012	18.013	(0.893)	657275	50.0000	50.2428
	58 1,2,3-Trichloropropane	110	18.062	18.062	(0.895)	270772	100.000	95.7340
	59 Propylbenzene	91	18.367	18.367	(0.910)	3504552	100.000	94.1697
	60 Bromobenzene	156	18.367	18.367	(0.910)	937977	100.000	92.8617
	61 2-Chlorotoluene	91	18.652	18.652	(0.924)	2485205	100.000	92.3453
	62 1,3,5-Trimethylbenzene	105	18.652	18.652	(0.924)	2339651	100.000	92.6199
	63 4-Chlorotoluene	91	18.740	18.741	(0.929)	2484392	100.000	95.2853
	64 tert-Butylbenzene	119	19.311	19.311	(0.957)	2257247	100.000	95.8482
	65 1,2,4-Trimethylbenzene	105	19.370	19.370	(0.960)	2409408	100.000	95.8776
	66 sec-Butylbenzene	105	19.704	19.705	(0.977)	3067314	100.000	96.5181
	67 para-Isopropyl Toluene	119	19.950	19.951	(0.989)	2407129	100.000	93.8392
	68 1,3-Dichlorobenzene	146	20.058	20.059	(0.994)	1652867	100.000	94.6949
*	69 1,4-Dichlorobenzene-d4	152	20.176	20.177	(1.000)	656261	50.0000	
	70 1,4-Dichlorobenzene	146	20.235	20.236	(1.003)	1648626	100.000	92.7439
	71 n-Butylbenzene	91	20.698	20.698	(1.026)	2436649	100.000	97.1776
	72 1,2-Dichlorobenzene	146	20.904	20.905	(1.036)	1585653	100.000	94.2866
	73 1,2-Dibromo-3-Chloropropane	75	22.252	22.252	(1.103)	231301	100.000	100.0347
	74 1,2,4-Trichlorobenzene	180	23.786	23.787	(1.179)	1004633	100.000	94.4596
	75 Hexachlorobutadiene	225	24.071	24.072	(1.193)	732225	100.000	91.4127
	76 Naphthalene	128	24.150	24.151	(1.197)	1726799	100.000	106.7860

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN20.D
Report Date: 24-Sep-2004 16:13

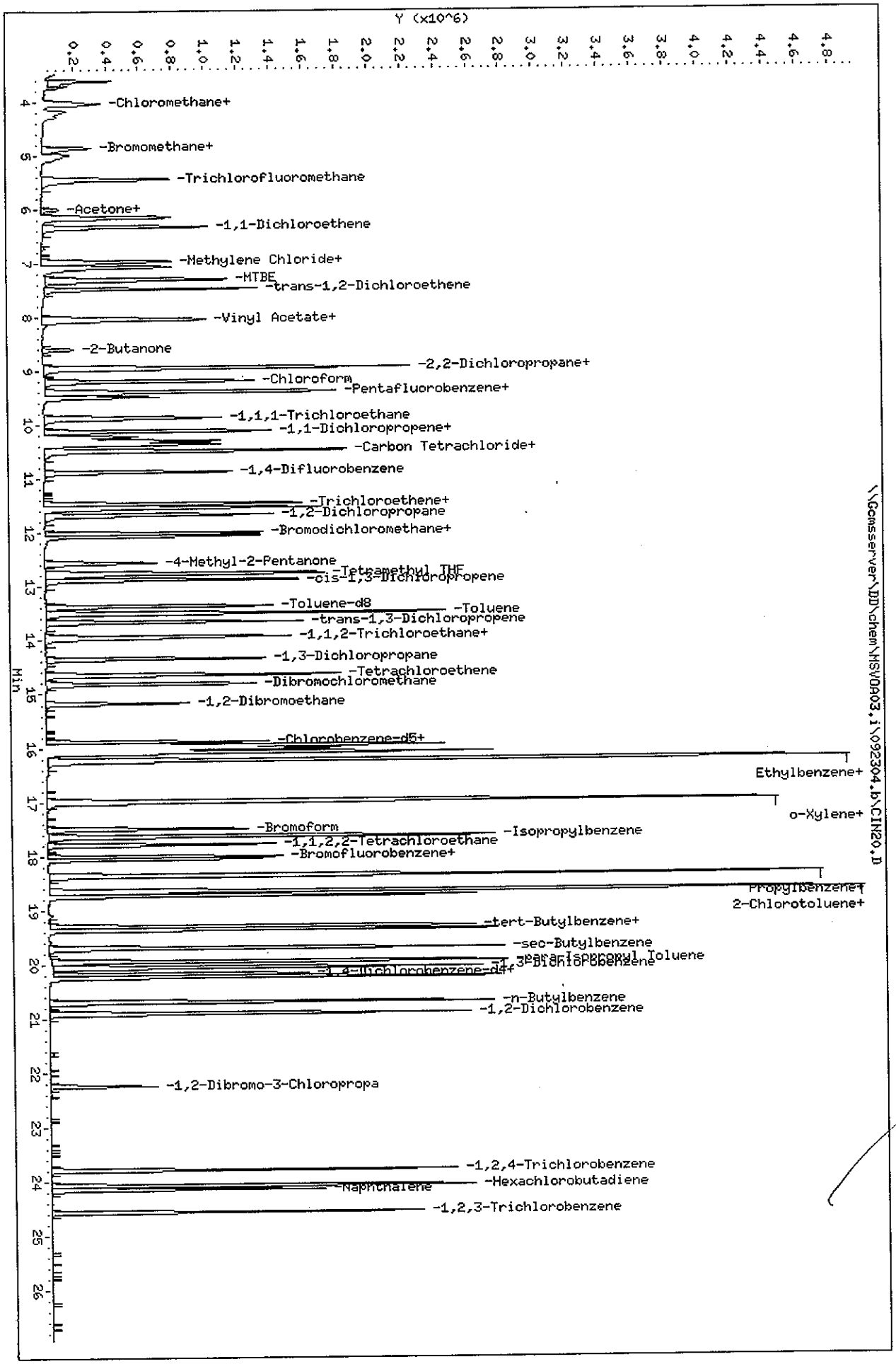
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.563	24.564	(1.217)	971142	100.000	95.6149

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN20.D
Date : 23-SEP-2004 22:32
Client ID: DYNA P&T
Sample Info: ICAL,04S8352,0,02/100,04WS1756A,0,04/100
Purge Volume: 5.0
Column phase: RTx Volatiles

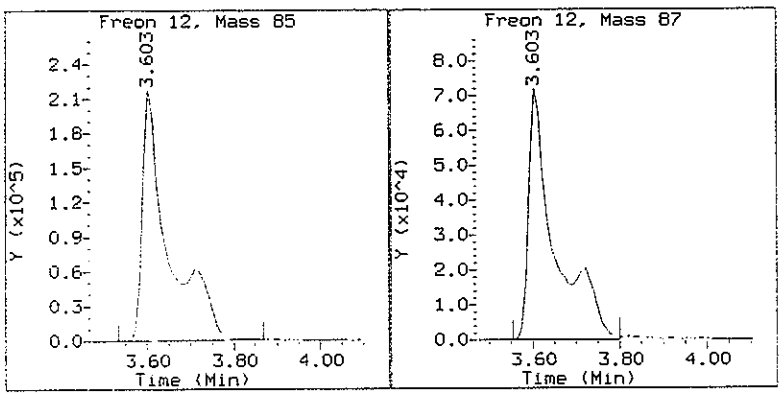
Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Signal Manual Integrations Report

Report Date: 09/24/2004 16:13

Datafile: //Gcmsserver/DD/chem/MSVOA03.i/092304.b/CIN20.D
Injection Date: 23-SEP-2004 22:32
Lab ID: Client ID:DYNA P&T



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name :
Seqnum : 424386495005 Filename : cio05 Injected : 24-SEP-2004 11:44
Calnum : 424385122001 Caldate : 23-SEP-2004 Caltype : SOIL
Standards: 04WS1580 (5000X), 04WS1726A (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags	
Freon 12	50.00000	53.31560	ug/L	7	30		
Chloromethane	50.00000	46.96450	ug/L	-6	30		
Vinyl Chloride	50.00000	55.26830	ug/L	11	20		
Bromomethane	50.00000	52.90100	ug/L	6	30		
Chloroethane	50.00000	53.89980	ug/L	8	30		
Trichlorofluoromethane	50.00000	62.77500	ug/L	26	30	!v+	
Dibromofluoromethane	50.00000	50.21330	ug/L	0	30		(NOT USED)
1,2-Dichloroethane-d4	50.00000	51.15010	ug/L	2	30		(NOT USED)
Toluene-d8	50.00000	49.78270	ug/L	0	30		(NOT USED)
Bromofluorobenzene	50.00000	49.62440	ug/L	-1	30		(NOT USED)

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	961277	4.99	9.39	9.39	0.00
1,4-Difluorobenzene	1223395	1291674	5.58	10.88	10.88	0.00
Chlorobenzene-d5	1036441	1070718	3.31	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	618690	3.13	20.18	20.18	0.00

fb 9/24/04

!=warning +=high bias v=ICV
Page 1 of 1

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092404.b\CIO05.D
Report Date: 24-Sep-2004 12:12

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092404.b\CIO05.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-SEP-2004 11:44 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICV,04WS1726A,5000X
Misc Info : NP
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092404.b\I3M826.m
Meth Date : 24-Sep-2004 11:21 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

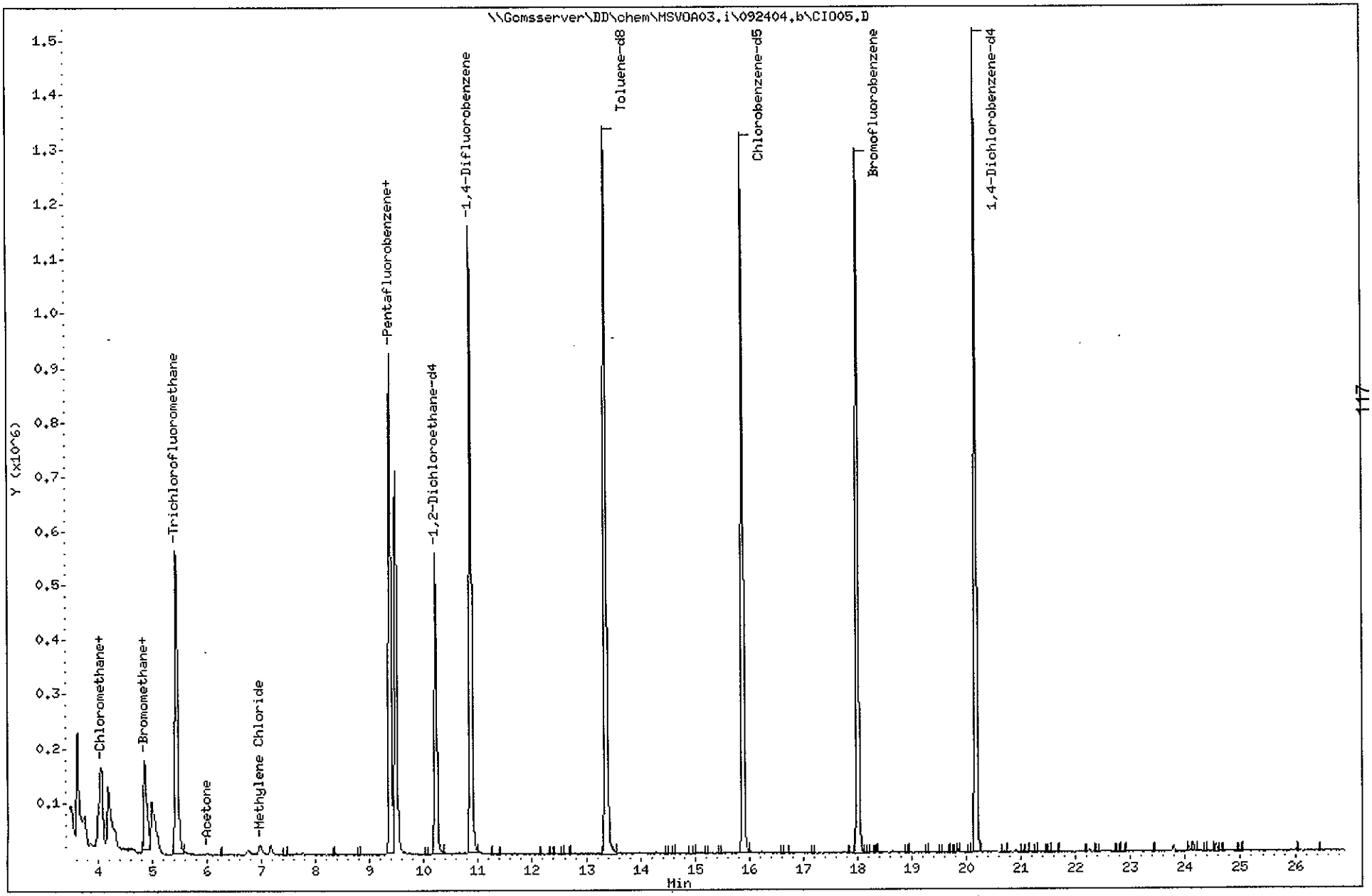
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.617	3.603	(0.385)	471791	53.3156	53.3155
2 Chloromethane	50	4.050	4.035	(0.431)	441624	46.9645	46.9645
3 Vinyl Chloride	62	4.188	4.174	(0.446)	340027	55.2683	55.2683
4 Bromomethane	94	4.857	4.852	(0.517)	238671	52.9010	52.9009
5 Chloroethane	64	4.994	4.980	(0.532)	230868	53.8998	53.8997
6 Trichlorofluoromethane	101	5.437	5.442	(0.579)	852488	62.7750	62.7749
7 Acetone	43	5.997	5.993	(0.639)	5226	2.12149	2.1214
10 Methylene Chloride	84	6.961	6.967	(0.741)	18114	2.18558	2.1855
* 20 Pentafluorobenzene	168	9.391	9.387	(1.000)	961277	50.0000	
$ 22 Dibromofluoromethane	113	9.489	9.485	(1.010)	574457	50.2133	50.2132
$ 25 1,2-Dichloroethane-d4	65	10.217	10.223	(0.939)	639331	51.1501	51.1501
* 29 1,4-Difluorobenzene	114	10.876	10.872	(1.000)	1291674	50.0000	
$ 38 Toluene-d8	98	13.365	13.370	(1.229)	1310532	49.7827	49.7827
* 47 Chlorobenzene-d5	117	15.893	15.898	(1.000)	1070718	50.0000	
$ 57 Bromofluorobenzene	95	18.007	18.013	(0.892)	612019	49.6244	49.6244
* 69 1,4-Dichlorobenzene-d4	152	20.181	20.177	(1.000)	618690	50.0000	

Data File: \\Gomsserver\DD\chem\MSVOA03.i\092404.b\CI005.D
Date : 24-SEP-2004 11:44
Client ID: DYNA P&T
Sample Info: ICV,04WS1726A,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name :
Seqnum : 424385122022 Filename : cin22 Injected : 23-SEP-2004 23:40
Calnum : 424385122001 Caldate : 23-SEP-2004 Caltype : SOIL
Standards: 04WS1554B (5000X), 04WS1580 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	50.15380	ug/L	0	40	
Freon 113	50.00000	64.74660	ug/L	29	30	!v+
1,1-Dichloroethene	50.00000	55.08810	ug/L	10	20	
Methylene Chloride	50.00000	53.57980	ug/L	7	30	
Carbon Disulfide	50.00000	54.08870	ug/L	8	30	
MTBE	50.00000	56.77830	ug/L	14	30	
trans-1,2-Dichloroethene	50.00000	54.04460	ug/L	8	30	
Vinyl Acetate	50.00000	45.40220	ug/L	-9	40	
1,1-Dichloroethane	50.00000	54.85450	ug/L	10	30	
2-Butanone	50.00000	49.54460	ug/L	-1	40	
2,2-Dichloropropane	50.00000	54.74850	ug/L	9	30	
cis-1,2-Dichloroethene	50.00000	54.32490	ug/L	9	30	
Chloroform	50.00000	52.48090	ug/L	5	20	
Bromochloromethane	50.00000	51.51020	ug/L	3	30	
1,1,1-Trichloroethane	50.00000	55.23030	ug/L	10	30	
1,1-Dichloropropene	50.00000	53.52660	ug/L	7	30	
Carbon Tetrachloride	50.00000	55.57740	ug/L	11	30	
1,2-Dichloroethane	50.00000	50.48840	ug/L	1	30	
Benzene	50.00000	52.63850	ug/L	5	30	
Trichloroethene	50.00000	53.54900	ug/L	7	30	
1,2-Dichloropropane	50.00000	52.75210	ug/L	6	20	
Bromodichloromethane	50.00000	53.51260	ug/L	7	30	
Dibromomethane	50.00000	49.69910	ug/L	-1	30	
4-Methyl-2-Pentanone	50.00000	48.38660	ug/L	-3	40	
Tetramethyl THF	50.00000	45.74390	ug/L	-9	30	
cis-1,3-Dichloropropene	50.00000	52.16370	ug/L	4	30	
Toluene	50.00000	53.34060	ug/L	7	20	
trans-1,3-Dichloropropene	50.00000	49.26600	ug/L	-1	30	
1,1,2-Trichloroethane	50.00000	52.66310	ug/L	5	30	
2-Hexanone	50.00000	49.09060	ug/L	-2	40	
1,3-Dichloropropane	50.00000	51.00730	ug/L	2	30	
Tetrachloroethene	50.00000	52.47890	ug/L	5	30	
Dibromochloromethane	50.00000	52.89510	ug/L	6	30	
1,2-Dibromoethane	50.00000	51.43430	ug/L	3	30	
Chlorobenzene	50.00000	50.91340	ug/L	2	30	
1,1,1,2-Tetrachloroethane	50.00000	51.88450	ug/L	4	30	
Ethylbenzene	50.00000	52.61170	ug/L	5	20	
m,p-Xylenes	100.0000	103.9821	ug/L	4	30	
o-Xylene	50.00000	51.89910	ug/L	4	30	
Styrene	50.00000	52.88410	ug/L	6	30	
Bromoform	50.00000	52.80270	ug/L	6	30	
Isopropylbenzene	50.00000	48.90370	ug/L	-2	30	
1,1,2,2-Tetrachloroethane	50.00000	50.77540	ug/L	2	30	
1,2,3-Trichloropropane	50.00000	49.35320	ug/L	-1	30	
Propylbenzene	50.00000	53.05750	ug/L	6	30	
Bromobenzene	50.00000	50.79810	ug/L	2	30	
1,3,5-Trimethylbenzene	50.00000	52.65680	ug/L	5	30	

!=warning +=high bias v=ICV

 9/24/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name :
Seqnum : 424385122022 Filename : cin22 Injected : 23-SEP-2004 23:40
Calnum : 424385122001 Caldate : 23-SEP-2004 Caltype : SOIL
Standards: 04WS1554B (5000X), 04WS1580 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
2-Chlorotoluene	50.00000	51.72410	ug/L	3	30	
4-Chlorotoluene	50.00000	50.82630	ug/L	2	30	
tert-Butylbenzene	50.00000	53.75250	ug/L	8	30	
1,2,4-Trimethylbenzene	50.00000	52.58140	ug/L	5	30	
sec-Butylbenzene	50.00000	53.26460	ug/L	7	30	
para-Isopropyl Toluene	50.00000	51.07140	ug/L	2	30	
1,3-Dichlorobenzene	50.00000	49.75330	ug/L	0	30	
1,4-Dichlorobenzene	50.00000	49.51870	ug/L	-1	30	
n-Butylbenzene	50.00000	53.62090	ug/L	7	30	
1,2-Dichlorobenzene	50.00000	49.84030	ug/L	0	30	
1,2-Dibromo-3-Chloropropane	50.00000	50.37650	ug/L	1	30	
1,2,4-Trichlorobenzene	50.00000	49.27690	ug/L	-1	30	
Hexachlorobutadiene	50.00000	53.50520	ug/L	7	30	
Naphthalene	50.00000	51.75100	ug/L	4	30	
1,2,3-Trichlorobenzene	50.00000	50.76480	ug/L	2	30	
Dibromofluoromethane	50.00000	49.55110	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	48.99730	ug/L	-2	30	
Toluene-d8	50.00000	50.51500	ug/L	1	30	
Bromofluorobenzene	50.00000	50.26880	ug/L	1	30	

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	914572	-0.11	9.39	9.39	0.00
1,4-Difluorobenzene	1223395	1230007	0.54	10.88	10.88	0.00
Chlorobenzene-d5	1036441	1041574	0.50	15.89	15.90	0.01
1,4-Dichlorobenzene-d4	599907	609781	1.65	20.18	20.19	0.01

b 9/24/04

!=warning +=high bias v=ICV
Page 2 of 2

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN22.D
Report Date: 24-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN22.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-SEP-2004 23:40 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICV,04WS1554B,5000X
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\I3M826.m
Meth Date : 24-Sep-2004 09:36 target Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
2 Chloromethane	50	4.006	4.035	(0.427)	13726	1.53423	1.5342
4 Bromomethane	94	4.852	4.852	(0.517)	27688	6.45040	6.4503
7 Acetone	43	6.002	5.993	(0.640)	117544	50.1538	50.1537
8 Freon 113	101	6.150	6.151	(0.655)	411255	64.7466	64.7466
9 1,1-Dichloroethene	96	6.327	6.328	(0.674)	306482	55.0881	55.0880
10 Methylene Chloride	84	6.966	6.967	(0.742)	422492	53.5798	53.5797
11 Carbon Disulfide	76	7.075	7.065	(0.754)	1030834	54.0887	54.0887
12 MTBE	73	7.311	7.302	(0.779)	1105177	56.7783	56.7783
13 trans-1,2-Dichloroethene	96	7.478	7.479	(0.797)	370187	54.0446	54.0446
14 Vinyl Acetate	43	8.019	8.020	(0.854)	555904	45.4022	45.4022
15 1,1-Dichloroethane	63	8.058	8.048	(0.859)	679076	54.8545	54.8544
16 2-Butanone	43	8.599	8.600	(0.916)	162251	49.5446	49.5446
17 2,2-Dichloropropane	77	8.943	8.944	(0.953)	576705	54.7485	54.7485
18 cis-1,2-Dichloroethene	96	8.943	8.944	(0.953)	420148	54.3249	54.3248
19 Chloroform	83	9.199	9.190	(0.980)	799444	52.4809	52.4808
* 20 Pentafluorobenzene	168	9.386	9.387	(1.000)	914572	50.0000	
21 Bromochloromethane	128	9.396	9.397	(1.001)	239814	51.5102	51.5101
$ 22 Dibromofluoromethane	113	9.494	9.485	(1.012)	539339	49.5511	49.5511
23 1,1,1-Trichloroethane	97	9.878	9.869	(1.052)	636189	55.2303	55.2302
24 1,1-Dichloropropene	75	10.124	10.124	(0.930)	491339	53.5266	53.5266
$ 25 1,2-Dichloroethane-d4	65	10.222	10.223	(0.939)	583184	48.9973	48.9972
26 Carbon Tetrachloride	117	10.301	10.301	(0.947)	568707	55.5774	55.5773

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\092304.b\CIN22.D
Report Date: 24-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	27 1,2-Dichloroethane	62	10.360	10.361	(0.952)	642786	50.4884	50.4884
	28 Benzene	78	10.488	10.479	(0.964)	1253533	52.6385	52.6384
*	29 1,4-Difluorobenzene	114	10.881	10.872	(1.000)	1230007	50.0000	
	30 Trichloroethene	95	11.461	11.462	(1.053)	416207	53.5490	53.5490
$	31 Trifluorotoluene	146	11.530	11.541	(1.060)	763	0.07255	0.0725
	32 1,2-Dichloropropane	63	11.668	11.669	(1.072)	343550	52.7521	52.7520
	33 Bromodichloromethane	83	12.002	12.003	(1.103)	634911	53.5126	53.5126
	34 Dibromomethane	93	12.061	12.062	(1.108)	361358	49.6991	49.6991
	35 4-Methyl-2-Pentanone	43	12.553	12.554	(1.154)	325304	48.3866	48.3866
	36 Tetramethyl THF	43	12.760	12.761	(1.173)	674312	45.7439	45.7438
	37 cis-1,3-Dichloropropene	75	12.878	12.879	(1.183)	600773	52.1637	52.1637
$	38 Toluene-d8	98	13.370	13.370	(1.229)	1266322	50.5150	50.5149
	39 Toluene	92	13.497	13.498	(1.240)	794169	53.3406	53.3405
	40 trans-1,3-Dichloropropene	75	13.665	13.665	(1.256)	544364	49.2660	49.2660
	41 1,1,2-Trichloroethane	83	13.930	13.931	(1.280)	312236	52.6631	52.6631
	42 2-Hexanone	43	13.979	13.980	(0.879)	262874	49.0906	49.0905
	43 1,3-Dichloropropane	76	14.353	14.354	(0.903)	542258	51.0073	51.0072
	44 Tetrachloroethene	166	14.648	14.649	(0.921)	441032	52.4789	52.4788
	45 Dibromochloromethane	129	14.816	14.816	(0.932)	497573	52.8951	52.8951
	46 1,2-Dibromoethane	107	15.170	15.170	(1.394)	409470	51.4343	51.4342
*	47 Chlorobenzene-d5	117	15.897	15.898	(1.000)	1041574	50.0000	
	48 Chlorobenzene	112	15.956	15.957	(1.004)	946868	50.9134	50.9133
	49 1,1,1,2-Tetrachloroethane	131	16.016	16.015	(1.007)	397634	51.8845	51.8845
	50 Ethylbenzene	91	16.084	16.085	(1.012)	1599339	52.6117	52.6116
	51 m,p-Xylenes	106	16.232	16.233	(1.021)	1086287	103.982	103.9820
	52 o-Xylene	106	16.989	16.989	(1.069)	547768	51.8991	51.8990
	53 Styrene	104	17.009	17.010	(1.070)	976622	52.8841	52.8841
	54 Bromoform	173	17.501	17.501	(1.101)	423984	52.8027	52.8026
	55 Isopropylbenzene	105	17.638	17.639	(0.874)	1318604	48.9037	48.9036
	56 1,1,2,2-Tetrachloroethane	83	17.796	17.797	(0.882)	508019	50.7754	50.7753
$	57 Bromofluorobenzene	95	18.012	18.013	(0.892)	611039	50.2688	50.2688
	58 1,2,3-Trichloropropane	110	18.061	18.062	(0.895)	129703	49.3532	49.3531
	59 Propylbenzene	91	18.366	18.367	(0.910)	1834702	53.0575	53.0575
	60 Bromobenzene	156	18.366	18.367	(0.910)	476760	50.7981	50.7980
	61 2-Chlorotoluene	91	18.652	18.652	(0.924)	1293414	51.7241	51.7241
	62 1,3,5-Trimethylbenzene	105	18.652	18.652	(0.924)	1235942	52.6568	52.6567
	63 4-Chlorotoluene	91	18.740	18.741	(0.928)	1231346	50.8263	50.8263
	64 tert-Butylbenzene	119	19.311	19.311	(0.957)	1176226	53.7525	53.7524
	65 1,2,4-Trimethylbenzene	105	19.360	19.370	(0.959)	1227786	52.5814	52.5814
	66 sec-Butylbenzene	105	19.704	19.705	(0.976)	1572842	53.2646	53.2646
	67 para-Isopropyl Toluene	119	19.950	19.951	(0.988)	1217279	51.0714	51.0714
	68 1,3-Dichlorobenzene	146	20.058	20.059	(0.994)	806920	49.7533	49.7533
*	69 1,4-Dichlorobenzene-d4	152	20.186	20.177	(1.000)	609781	50.0000	
	70 1,4-Dichlorobenzene	146	20.235	20.236	(1.002)	817906	49.5187	49.5187
	71 n-Butylbenzene	91	20.697	20.698	(1.025)	1249274	53.6209	53.6208
	72 1,2-Dichlorobenzene	146	20.904	20.905	(1.036)	778818	49.8403	49.8402
	73 1,2-Dibromo-3-Chloropropane	75	22.242	22.252	(1.102)	108231	50.3765	50.3764
	74 1,2,4-Trichlorobenzene	180	23.786	23.787	(1.178)	486969	49.2769	49.2768
	75 Hexachlorobutadiene	225	24.071	24.072	(1.192)	398227	53.5052	53.5051
	76 Naphthalene	128	24.150	24.151	(1.196)	777577	51.7510	51.7510
	77 1,2,3-Trichlorobenzene	180	24.563	24.564	(1.217)	479090	50.7648	50.7648

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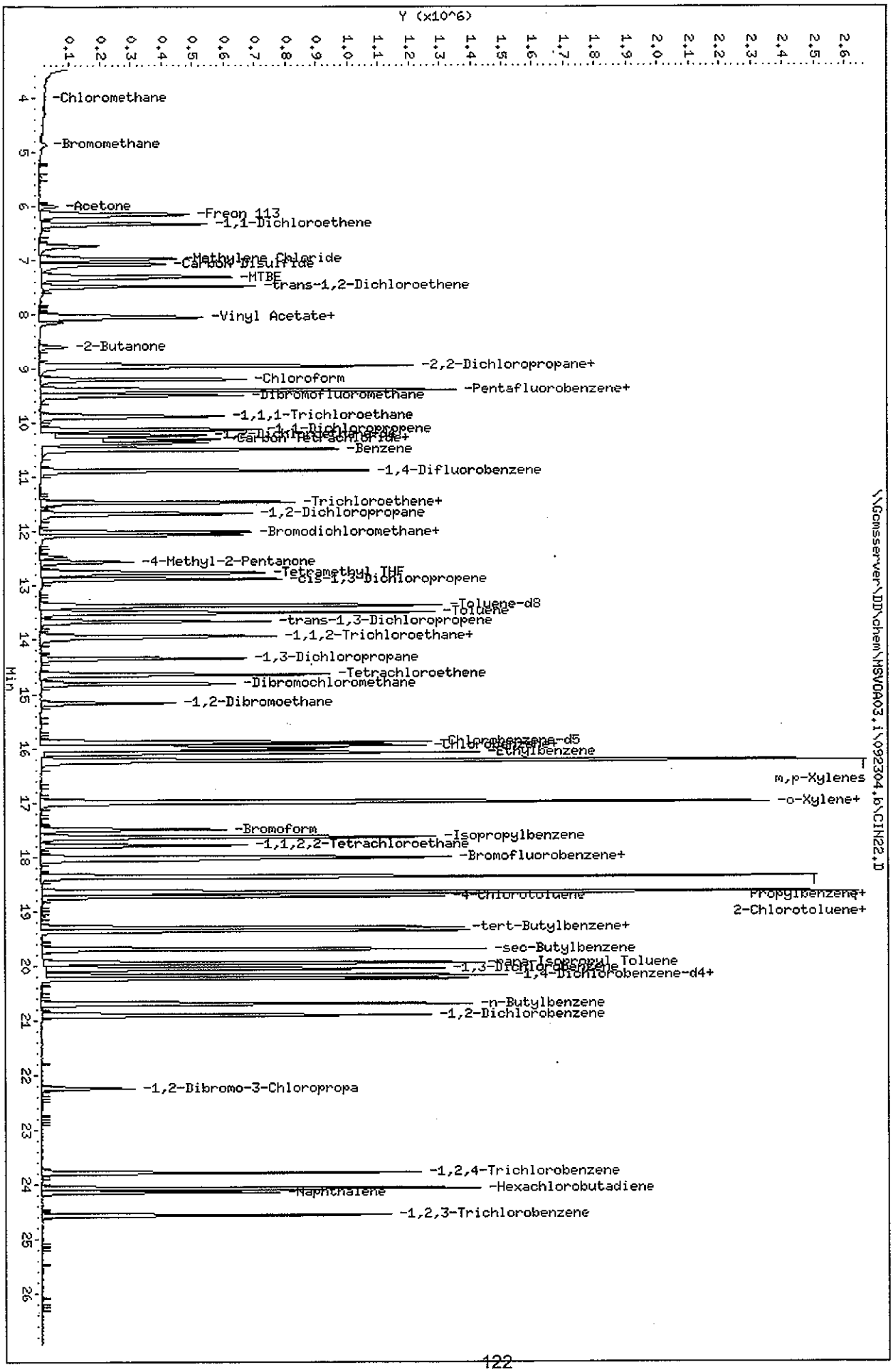
Date : 23-SEP-2004 23:40
Client ID: DYNA P&T
Sample Info: ICV,04MS1554B,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 60PPB IDF : 1.0
Seqnum : 424406706003 Filename : cj803 Injected : 08-OCT-2004 11:21
Calnum : 424385122001 Caldate : 23-SEP-2004 Caltype : SOIL
Standards: 04SS371 (8333X), 04WS1756B (4167X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4603	0.5569	60.00000	72.59070	ug/L	21	30	0.0500	!c+
Chloromethane	0.4891	0.5068	60.00000	62.16900	ug/L	4	30	0.1000	
Vinyl Chloride	0.3200	0.2692	60.00000	50.47940	ug/L	-16	20	0.0500	
Bromomethane	0.2347	0.2253	60.00000	57.61250	ug/L	-4	30	0.0500	
Chloroethane	0.2228	0.2128	60.00000	57.29780	ug/L	-5	30	0.0500	
Trichlorofluoromethane	0.7064	0.8082	60.00000	68.64800	ug/L	14	30	0.0500	
Acetone	0.1281	0.2141	60.00000	100.2492	ug/L	67	40	0.0500	c+ ***
Freon 113	0.3473	0.4144	60.00000	71.60620	ug/L	19	30	0.0500	
1,1-Dichloroethene	0.3042	0.3566	60.00000	70.34440	ug/L	17	20	0.0500	
Methylene Chloride	0.4311	0.4459	60.00000	62.06540	ug/L	3	30	0.0500	
Carbon Disulfide	1.0419	1.2583	60.00000	72.46270	ug/L	21	30	0.0500	!c+
MTBE	1.0641	1.0834	60.00000	61.08820	ug/L	2	30	0.0500	
trans-1,2-Dichloroethene	0.3745	0.4102	60.00000	65.72620	ug/L	10	30	0.0500	
Vinyl Acetate	0.6694	0.7927	60.00000	71.05220	ug/L	18	40	0.0500	
1,1-Dichloroethane	0.6768	0.7484	60.00000	66.34540	ug/L	11	30	0.1000	
2-Butanone	0.1790	0.2338	60.00000	78.35420	ug/L	31	40	0.0500	!c+
2,2-Dichloropropane	0.5759	0.6451	60.00000	67.21010	ug/L	12	30	0.0500	
cis-1,2-Dichloroethene	0.4228	0.4464	60.00000	63.34220	ug/L	6	30	0.0500	
Chloroform	0.8328	0.8604	60.00000	61.98770	ug/L	3	20	0.0500	
Bromochloromethane	0.2545	0.2536	60.00000	59.79230	ug/L	0	30	0.0500	
1,1,1-Trichloroethane	0.6297	0.6794	60.00000	64.72710	ug/L	8	30	0.0500	
1,1-Dichloropropene	0.3731	0.4111	60.00000	66.09570	ug/L	10	30	0.0500	
Carbon Tetrachloride	0.4160	0.4399	60.00000	63.45450	ug/L	6	30	0.0500	
1,2-Dichloroethane	0.5175	0.5038	60.00000	58.41000	ug/L	-3	30	0.0500	
Benzene	0.9680	1.0077	60.00000	62.46060	ug/L	4	30	0.0500	
Trichloroethene	0.3160	0.3247	60.00000	61.66070	ug/L	3	30	0.0500	
1,2-Dichloropropane	0.2647	0.2814	60.00000	63.77920	ug/L	6	20	0.0500	
Bromodichloromethane	0.4823	0.4735	60.00000	58.90520	ug/L	-2	30	0.0500	
Dibromomethane	0.2956	0.2803	60.00000	56.89380	ug/L	-5	30	0.0500	
4-Methyl-2-Pentanone	0.2733	0.3110	60.00000	68.27080	ug/L	14	40	0.0500	
Tetramethyl THF	0.5992	0.6551	60.00000	65.59070	ug/L	9	30	0.0500	
cis-1,3-Dichloropropene	0.4682	0.4826	60.00000	61.85230	ug/L	3	30	0.0500	
Toluene	0.6052	0.6272	60.00000	62.17930	ug/L	4	20	0.0500	
trans-1,3-Dichloropropene	0.4492	0.4590	60.00000	61.30890	ug/L	2	30	0.0500	
1,1,2-Trichloroethane	0.2410	0.2357	60.00000	58.66760	ug/L	-2	30	0.0500	
2-Hexanone	0.2571	0.3019	60.00000	70.46680	ug/L	17	40	0.0500	
1,3-Dichloropropane	0.5103	0.5150	60.00000	60.54640	ug/L	1	30	0.0500	
Tetrachloroethene	0.4034	0.4161	60.00000	61.88280	ug/L	3	30	0.0500	
Dibromochloromethane	0.4516	0.4436	60.00000	58.93720	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.3236	0.3164	60.00000	58.66670	ug/L	-2	30	0.0500	
Chlorobenzene	0.8928	0.8717	60.00000	58.58520	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3679	0.3513	60.00000	57.29220	ug/L	-5	30	0.0500	
Ethylbenzene	1.4593	1.4835	60.00000	60.99690	ug/L	2	20	0.0500	
m,p-Xylenes	0.5015	0.4958	120.0000	118.6467	ug/L	-1	30	0.0500	
o-Xylene	0.5067	0.4961	60.00000	58.75520	ug/L	-2	30	0.0500	
Styrene	0.8865	0.8675	60.00000	58.71700	ug/L	-2	30	0.0500	

!=warning +=high bias c=CCV
Page 1 of 2

6 10/8/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 60PPB IDF : 1.0
Seqnum : 424406706003 Filename : cj803 Injected : 08-OCT-2004 11:21
Calnum : 424385122001 Caldate : 23-SEP-2004 Caltype : SOIL
Standards: 04SS371 (8333X), 04WS1756B (4167X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.3855	0.3895	60.00000	60.62840	ug/L	1	30	0.1000	
Isopropylbenzene	2.2109	2.2716	60.00000	61.64620	ug/L	3	30	0.0500	
1,1,2,2-Tetrachloroethane	0.8204	0.8385	60.00000	61.32640	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	0.2155	0.2115	60.00000	58.89130	ug/L	-2	30	0.0500	
Propylbenzene	2.8354	2.9325	60.00000	62.05500	ug/L	3	30	0.0500	
Bromobenzene	0.7696	0.7440	60.00000	58.00980	ug/L	-3	30	0.0500	
1,3,5-Trimethylbenzene	1.9246	1.8964	60.00000	59.12150	ug/L	-1	30	0.0500	
2-Chlorotoluene	2.0504	2.1080	60.00000	61.68460	ug/L	3	30	0.0500	
4-Chlorotoluene	1.9865	1.9954	60.00000	60.26920	ug/L	0	30	0.0500	
tert-Butylbenzene	1.7943	1.7778	60.00000	59.45030	ug/L	-1	30	0.0500	
1,2,4-Trimethylbenzene	1.9146	1.8331	60.00000	57.44550	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.4213	2.4522	60.00000	60.76650	ug/L	1	30	0.0500	
para-Isopropyl Toluene	1.9544	1.9034	60.00000	58.43650	ug/L	-3	30	0.0500	
1,3-Dichlorobenzene	1.3299	1.3202	60.00000	59.56360	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	1.3543	1.3383	60.00000	59.28770	ug/L	-1	30	0.0500	
n-Butylbenzene	1.9104	1.9356	60.00000	60.79060	ug/L	1	30	0.0500	
1,2-Dichlorobenzene	1.2813	1.2533	60.00000	58.69100	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1762	0.1899	60.00000	64.68500	ug/L	8	30	0.0500	
1,2,4-Trichlorobenzene	0.8103	0.7926	60.00000	58.68510	ug/L	-2	30	0.0500	
Hexachlorobutadiene	0.6103	0.6452	60.00000	63.43510	ug/L	6	30	0.0500	
Naphthalene	1.2320	1.1330	60.00000	55.17770	ug/L	-8	30	0.0500	
1,2,3-Trichlorobenzene	0.7738	0.7592	60.00000	58.86510	ug/L	-2	30	0.0500	
Dibromofluoromethane	0.5951	0.6040	50.00000	50.75380	ug/L	2	30	0.0500	
1,2-Dichloroethane-d4	0.4838	0.4696	50.00000	48.53360	ug/L	-3	30	0.0500	
Trifluorotoluene	0.4275	0.4652	60.00000	65.29310	ug/L	9	30	0.0500	
Toluene-d8	1.0190	0.9951	50.00000	48.82810	ug/L	-2	30	0.0500	
Bromofluorobenzene	0.9967	1.0359	50.00000	51.96770	ug/L	4	30	0.0500	

ISTD (ICAL=cin17)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	915556	851412	-7.01	9.39	9.38	-0.01
1,4-Difluorobenzene	1223395	1191564	-2.60	10.88	10.87	-0.01
Chlorobenzene-d5	1036441	996822	-3.82	15.89	15.89	0.00
1,4-Dichlorobenzene-d4	599907	582856	-2.84	20.18	20.18	0.00

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!=warning +=high bias c=CCV

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ803.D
Report Date: 08-Oct-2004 12:20

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ803.D
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Inj Date : 08-OCT-2004 11:21 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : CCV,04SS371,0.012/100,04WS1756B,0.024/100
Misc Info : 60PPB
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\I3M826.m
Meth Date : 08-Oct-2004 12:20 tapsvc Quant Type: ISTD
Cal Date : 23-SEP-2004 22:32 Cal File: CIN20.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.594	3.603	(0.383)	568942	60.0000	72.5907
2 Chloromethane	50	4.027	4.036	(0.429)	517783	60.0000	62.1689
3 Vinyl Chloride	62	4.155	4.174	(0.443)	275069	60.0000	50.4793
4 Bromomethane	94	4.833	4.852	(0.515)	230220	60.0000	57.6124
5 Chloroethane	64	4.961	4.980	(0.529)	217373	60.0000	57.2978
6 Trichlorofluoromethane	101	5.424	5.442	(0.578)	825697	60.0000	68.6479
7 Acetone	43	5.984	5.993	(0.638)	218725	60.0000	100.2492
8 Freon 113	101	6.142	6.151	(0.655)	423415	60.0000	71.6061
9 1,1-Dichloroethene	96	6.319	6.328	(0.674)	364333	60.0000	70.3444
10 Methylene Chloride	84	6.948	6.967	(0.741)	455605	60.0000	62.0653
11 Carbon Disulfide	76	7.056	7.065	(0.752)	1285638	60.0000	72.4627
12 MTBE	73	7.302	7.302	(0.779)	1106952	60.0000	61.0881
13 trans-1,2-Dichloroethene	96	7.470	7.479	(0.797)	419111	60.0000	65.7262
14 Vinyl Acetate	43	8.011	8.020	(0.854)	809883	60.0000	71.0522
15 1,1-Dichloroethane	63	8.050	8.049	(0.858)	764609	60.0000	66.3453
16 2-Butanone	43	8.591	8.600	(0.916)	238877	60.0000	78.3542

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ803.D
Report Date: 08-Oct-2004 12:20

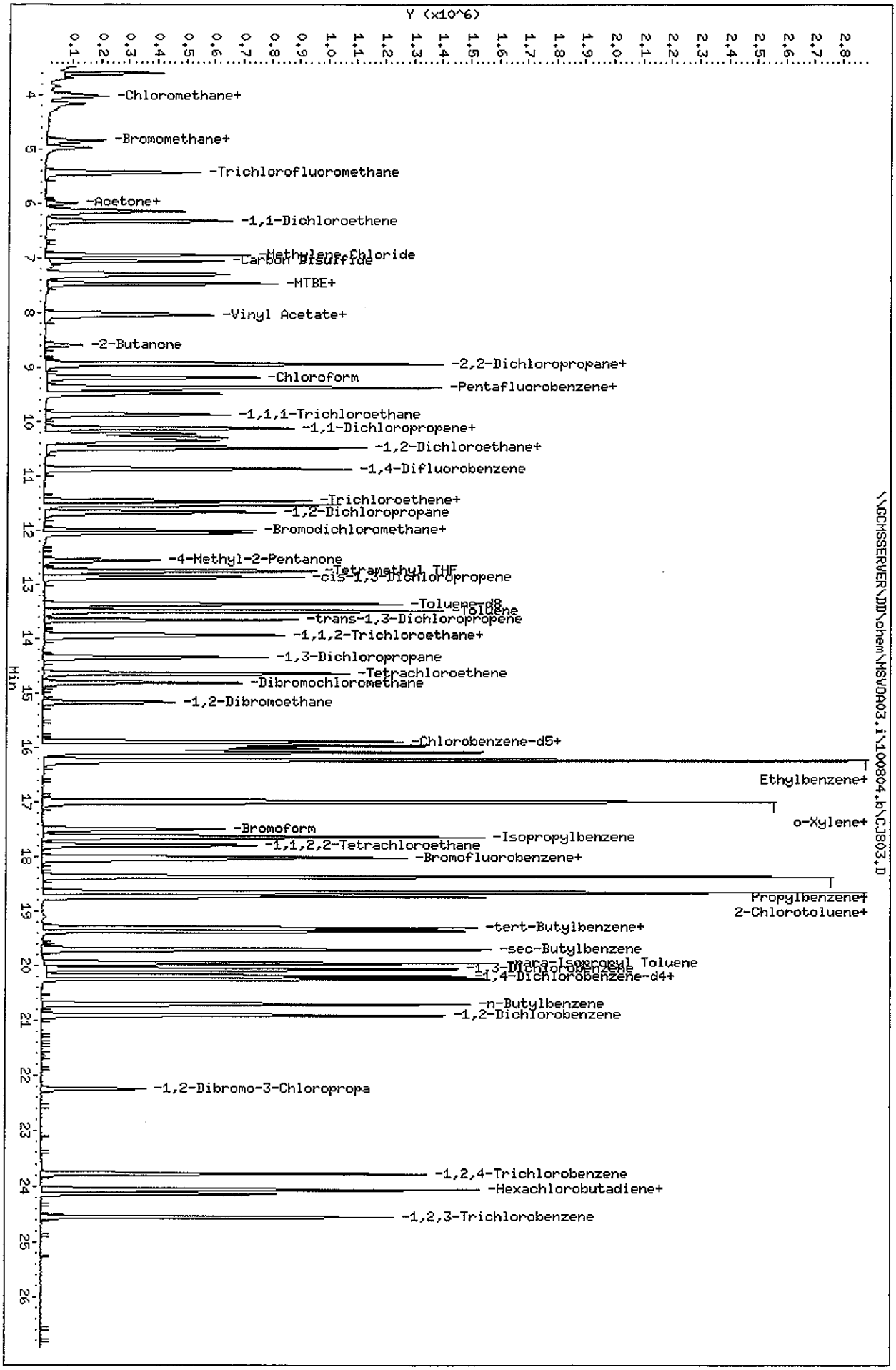
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 2,2-Dichloropropane	77	8.935	8.944	(0.953)	659079	60.0000	67.2100
18 cis-1,2-Dichloroethene	96	8.935	8.944	(0.953)	456056	60.0000	63.3421
19 Chloroform	83	9.181	9.190	(0.979)	879051	60.0000	61.9876
* 20 Pentafluorobenzene	168	9.378	9.387	(1.000)	851412	50.0000	
21 Bromochloromethane	128	9.388	9.397	(1.001)	259148	60.0000	59.7923
$ 22 Dibromofluoromethane	113	9.486	9.485	(1.012)	514279	50.0000	50.7537
23 1,1,1-Trichloroethane	97	9.870	9.869	(1.052)	694092	60.0000	64.7271
24 1,1-Dichloropropene	75	10.115	10.124	(0.930)	587752	60.0000	66.0957
$ 25 1,2-Dichloroethane-d4	65	10.214	10.223	(0.939)	559611	50.0000	48.5336
26 Carbon Tetrachloride	117	10.293	10.301	(0.947)	629018	60.0000	63.4545
27 1,2-Dichloroethane	62	10.352	10.361	(0.952)	720396	60.0000	58.4099
28 Benzene	78	10.479	10.479	(0.964)	1440949	60.0000	62.4606
* 29 1,4-Difluorobenzene	114	10.873	10.872	(1.000)	1191564	50.0000	
30 Trichloroethene	95	11.453	11.462	(1.053)	464276	60.0000	61.6607
$ 31 Trifluorotoluene	146	11.532	11.541	(1.061)	665186	60.0000	65.2930
32 1,2-Dichloropropane	63	11.670	11.669	(1.073)	402383	60.0000	63.7792
33 Bromodichloromethane	83	12.004	12.003	(1.104)	677049	60.0000	58.9052
34 Dibromomethane	93	12.053	12.062	(1.109)	400740	60.0000	56.8937
35 4-Methyl-2-Pentanone	43	12.555	12.554	(1.155)	444640	60.0000	68.2708
36 Tetramethyl THF	43	12.752	12.761	(1.173)	936655	60.0000	65.5906
37 cis-1,3-Dichloropropene	75	12.870	12.879	(1.184)	690093	60.0000	61.8523
$ 38 Toluene-d8	98	13.361	13.370	(1.229)	1185779	50.0000	48.8281
39 Toluene	92	13.489	13.498	(1.241)	896831	60.0000	62.1792
40 trans-1,3-Dichloropropene	75	13.656	13.665	(1.256)	656259	60.0000	61.3088
41 1,1,2-Trichloroethane	83	13.932	13.931	(1.281)	336964	60.0000	58.6675
42 2-Hexanone	43	13.971	13.980	(0.879)	361128	60.0000	70.4668
43 1,3-Dichloropropane	76	14.345	14.354	(0.903)	616013	60.0000	60.5464
44 Tetrachloroethene	166	14.640	14.649	(0.921)	497717	60.0000	61.8827
45 Dibromochloromethane	129	14.807	14.816	(0.932)	530589	60.0000	58.9371
46 1,2-Dibromoethane	107	15.161	15.170	(1.394)	452450	60.0000	58.6667
* 47 Chlorobenzene-d5	117	15.889	15.898	(1.000)	996822	50.0000	
48 Chlorobenzene	112	15.958	15.957	(1.004)	1042732	60.0000	58.5851
49 1,1,1,2-Tetrachloroethane	131	16.017	16.016	(1.008)	420212	60.0000	57.2921
50 Ethylbenzene	91	16.086	16.085	(1.012)	1774575	60.0000	60.9969
51 m,p-Xylenes	106	16.224	16.233	(1.021)	1186232	120.000	118.6467
52 o-Xylene	106	16.981	16.990	(1.069)	593487	60.0000	58.7552
53 Styrene	104	17.001	17.010	(1.070)	1037750	60.0000	58.7169
54 Bromoform	173	17.493	17.501	(1.101)	465905	60.0000	60.6284
55 Isopropylbenzene	105	17.630	17.639	(0.874)	1588791	60.0000	61.6462
56 1,1,2,2-Tetrachloroethane	83	17.788	17.797	(0.882)	586491	60.0000	61.3263
$ 57 Bromofluorobenzene	95	18.004	18.013	(0.892)	603797	50.0000	51.9676
58 1,2,3-Trichloropropane	110	18.053	18.062	(0.895)	147935	60.0000	58.8912
59 Propylbenzene	91	18.358	18.367	(0.910)	2051080	60.0000	62.0549
60 Bromobenzene	156	18.358	18.367	(0.910)	520405	60.0000	58.0098
61 2-Chlorotoluene	91	18.643	18.652	(0.924)	1474377	60.0000	61.6845
62 1,3,5-Trimethylbenzene	105	18.653	18.652	(0.924)	1326407	60.0000	59.1214
63 4-Chlorotoluene	91	18.732	18.741	(0.928)	1395643	60.0000	60.2692

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ803.D
Report Date: 08-Oct-2004 12:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 tert-Butylbenzene	119	19.302	19.311	(0.957)	1243466	60.0000	59.4502
65 1,2,4-Trimethylbenzene	105	19.361	19.370	(0.960)	1282134	60.0000	57.4454
66 sec-Butylbenzene	105	19.696	19.705	(0.976)	1715134	60.0000	60.7664
67 para-Isopropyl Toluene	119	19.942	19.951	(0.988)	1331323	60.0000	58.4364
68 1,3-Dichlorobenzene	146	20.060	20.059	(0.994)	923372	60.0000	59.5635
* 69 1,4-Dichlorobenzene-d4	152	20.178	20.177	(1.000)	582856	50.0000	
70 1,4-Dichlorobenzene	146	20.237	20.236	(1.003)	936021	60.0000	59.2876
71 n-Butylbenzene	91	20.689	20.698	(1.025)	1353780	60.0000	60.7906
72 1,2-Dichlorobenzene	146	20.906	20.905	(1.036)	876626	60.0000	58.6909
73 1,2-Dibromo-3-Chloropropane	75	22.243	22.252	(1.102)	132835	60.0000	64.6850
74 1,2,4-Trichlorobenzene	180	23.788	23.787	(1.179)	554336	60.0000	58.6850
75 Hexachlorobutadiene	225	24.073	24.072	(1.193)	451286	60.0000	63.4350
76 Naphthalene	128	24.142	24.151	(1.196)	792457	60.0000	55.1777
77 1,2,3-Trichlorobenzene	180	24.555	24.564	(1.217)	531006	60.0000	58.8651

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\100804.b\CJ803.D
Date : 08-OCT-2004 11:21
Client ID: DYNA P&T
Sample Info: CCV,04SS371,0.012/100,04WS1756B,0.024/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



MOISTURE DATA

Percent Moisture Summary Report

Batch: 95274
Date: 10/08/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175141-002	10.9255	18.8777	18.5163	95	5
175141-003	15.2567	22.2113	22.1431	99	1
175141-004	15.0494	22.5615	22.4550	99	1
175141-005	11.0493	19.0626	18.9082	98	2
175141-006	10.9358	18.7028	18.6223	99	1
175141-007	10.9331	18.3537	18.2635	99	1
175141-010	15.5842	22.7842	22.6887	99	1
QC267285 of 175141-010	10.9937	19.0930	18.9827	99	1
			RPD:	0.0%	2.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95274
Date Started: 07-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
175141-002			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-003			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-004			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-005			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-006			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-007			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-010			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
QC267285	SDUP	of 175141-010		Soil	MOISTURE	

10/7/04

95274

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	RA	11.0029	—	11.0028	
175141-2	A	RC	10.9255	18.8777	18.5163	
3		9A	15.2567	22.2113	22.1431	
4		103	15.0494	22.5615	22.4550	
5		B100	11.0493	19.8626	18.9082	
6		VED	10.9358	18.7028	18.6223	
7		ZAX	10.9331	18.3537	18.2435	
10		5X	15.5842	22.7842	22.6887	
DUP. 10		B20	10.9937	19.8938	18.9827	

OVEN TEMP: 104°C
TIME IN: 5:30 P.M.
TIME OUT: 8:25 A.M. ON: 10-8-04

Continued on Page

Read and Understood By

D. Marnell 10-7-04 — Signed Date

[illegible] 10/8/04 — Signed Date

Percent Moisture Summary Report

Batch: 95335
Date: 10/11/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175043-001	11.1875	18.1785	12.9724	26	74
175043-002	10.9942	18.0834	12.7766	25	75
175043-004	11.0707	18.3448	12.1390	15	85
175043-005	11.0521	19.4830	13.6454	31	69
175043-007	11.2430	18.3740	12.8000	22	78
175043-010	15.6101	22.4980	16.4261	12	88
175043-011	11.0427	19.1054	12.1676	14	86
175043-016	15.2570	20.7811	16.2340	18	82
175043-017	10.9328	16.1384	11.8770	18	82
175059-047	15.3163	22.1672	21.8631	96	4
175059-049	10.9900	18.5694	17.7573	89	11
175059-064	15.5723	22.1421	21.2435	86	14
175059-065	11.0035	18.5803	17.5199	86	14
175059-071	11.0500	18.7381	18.0219	91	9
175059-072	15.5826	22.3131	21.5802	89	11
175141-001	11.1350	19.2009	19.1169	99	1
175141-009	11.0717	19.5083	19.4316	99	1
175164-001	11.0658	18.5680	18.1558	95	5
QC267536 of 175043-011	15.7997	22.8207	16.7955	14	86
			RPD:	1.6%	0.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95335
Date Started: 11-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175043-001		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-002		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-004		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-005		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-007		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-010		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-011		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-016		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-017		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175059-047		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-049		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-064		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-065		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-071		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-072		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175141-001		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-009		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175164-001		Blasland, Bouck &	Soil	MOISTURE	14-OCT-2004
QC267536	SDUP of 175043-011		Miscell.	MOISTURE	

10/10/04

95335

Sample		B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	1D	15.7378	—	15.7378	
175059	47	A	117L	15.3163	22.1672	21.8631	
	49		2	10.9900	18.5694	17.7573	
	64		9D	15.5723	22.1421	21.2435	
	65		12A	11.0035	18.5803	17.5199	
	71		B11G	11.0500	18.7381	18.0219	
	72		5X	15.5826	22.3131	21.5802	
175043	1		DHW	11.1875	18.1785	12.9724	COMP. A-D
	2		B120	10.9942	18.0834	12.7766	
	4		B107	11.0707	18.3448	12.1390	COMP. A-E
	5		B100	11.0521	19.4830	13.6454	
	7		D	11.2430	18.3740	12.8000	
	10		3L	15.6101	22.4980	16.4261	
	11		B104	11.0427	19.1054	12.1474	
DMP	11		L04	15.7997	22.8207	16.7955	
	16		9A	15.2570	20.7811	16.2340	COMP. A-B
	17		2AX	10.9328	16.1384	11.8770	COMP. A-B
175141	1		B116	11.1350	19.2009	19.1169	
	9		B112	11.0717	19.5083	19.4316	
175164	1		XDH	11.0658	18.5680	18.1558	

OVEN TEMP: 105°C
TIME IN: 3:00 P.M.
TIME OUT: 9:57 A.M. ON: 10-11-04

Continued on Page

Read and Understood By

D. Manning 10-10-04 Signed Date

Signed Date 10/11/04

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175141
Semivolatile Organics by GC/MS

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
BB4EX100[0.5]	175141-001
DUP100704A	175141-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/17/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS (EPA 8270C)

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 10/07/04. The samples were received cold and intact.

Semivolatile Organics by GC/MS (EPA 8270C):

Low responses were observed for 3-nitroaniline and 4-nitroaniline in the ICV analyzed 10/04/04 18:22; these analytes were not detected at or above the RL in the associated samples.

High responses were observed for benzoic acid and benzo(b)fluoranthene in the ICV analyzed 10/06/04 16:38; these analytes were not detected at or above the RL in the associated sample.

No other analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2893.10
Project Manager\Contact: Sigrida Reinis
Samplers: Dustin Sutherland
Recorder (Signature Required): D Sutherland

Turnaround Time: 24hr

Field Sample Identification No.	Date	PST Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	VOCs	8VOCs	Hg	Chlod Herbicides	TPH d/fc	Metals						Silica gel clean-up	Hold	Remarks
-1 BB4EX100[0.5]	5/10/04	1303		X						X		X	X	X	X	X	X	X	X						X		Analyze from bottom B.
-2 BB4EX101[0.5]		1323		X						X		X							X								
-3 BB4EX102[0.5]		1335		X						X		X							X								
-4 BB4EX103[0.5]		1355		X						X		X							X								
-5 BB4EX104[0.5]		1244		X						X		X							X								
-6 BB4EX105[0.5]		1340		X						X		X							X								
-7 BB4EX106[0.5]		1288		X						X		X							X								
-8 TB100704A		1400			X					X				X													
-9 DUP100704A		1304		X						X		X	X	X	X	X	X	X	X						X		DUP100704A
-10 BB4EX107[0.5]		1352		X						X		X	X						X								

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
D Sutherland	10-7-04	1410	Tony Kan	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes:
RECEIVED ON ICE

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Soil cores in plastic bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4. — Sample Dup100704A on COC, Label Dup100604A, ID'd by time.

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III		10/8/10/14
(All samples)					to Level IV		
					(8081, PCB		
					8260, 8270		
					HG, T26/ICP		
					TEHM)		

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB4EX100[0.5]	Batch#:	95302
Lab ID:	175141-001	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/13/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	36
Phenol	ND	330	33
bis(2-Chloroethyl)ether	ND	330	45
2-Chlorophenol	ND	330	33
1,3-Dichlorobenzene	ND	330	37
1,4-Dichlorobenzene	ND	330	30
Benzyl alcohol	ND	330	35
1,2-Dichlorobenzene	ND	330	32
2-Methylphenol	ND	330	44
bis(2-Chloroisopropyl) ether	ND	330	36
4-Methylphenol	ND	330	37
N-Nitroso-di-n-propylamine	ND	330	24
Hexachloroethane	ND	330	32
Nitrobenzene	ND	330	34
Isophorone	ND	330	30
2-Nitrophenol	ND	660	43
2,4-Dimethylphenol	ND	330	81
Benzoic acid	ND	1,700	150
bis(2-Chloroethoxy)methane	ND	330	36
2,4-Dichlorophenol	ND	330	37
1,2,4-Trichlorobenzene	ND	330	36
Naphthalene	ND	330	32
4-Chloroaniline	ND	330	20
Hexachlorobutadiene	ND	330	42
4-Chloro-3-methylphenol	ND	330	40
2-Methylnaphthalene	ND	330	33
Hexachlorocyclopentadiene	ND	1,700	84
2,4,6-Trichlorophenol	ND	330	35
2,4,5-Trichlorophenol	ND	330	39
2-Chloronaphthalene	ND	330	28
2-Nitroaniline	ND	660	32
Dimethylphthalate	ND	330	36
Acenaphthylene	ND	330	27
2,6-Dinitrotoluene	ND	330	25
3-Nitroaniline	ND	660	18
Acenaphthene	ND	660	27
2,4-Dinitrophenol	ND	1,700	210
4-Nitrophenol	ND	660	46
Dibenzofuran	ND	330	32
2,4-Dinitrotoluene	ND	330	41
Diethylphthalate	ND	330	36
Fluorene	ND	330	30
4-Chlorophenyl-phenylether	ND	330	46
4-Nitroaniline	ND	660	30
4,6-Dinitro-2-methylphenol	ND	1,700	360
N-Nitrosodiphenylamine	ND	330	44
Azobenzene	ND	330	45
4-Bromophenyl-phenylether	ND	330	46
Hexachlorobenzene	ND	330	43
Pentachlorophenol	ND	660	43
Phenanthrene	ND	330	40

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB4EX100[0.5]	Batch#:	95302
Lab ID:	175141-001	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/13/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Anthracene	ND	330	37
Di-n-butylphthalate	ND	330	41
Fluoranthene	ND	330	47
Pyrene	ND	330	28
Butylbenzylphthalate	ND	330	20
3,3'-Dichlorobenzidine	ND	660	21
Benzo(a)anthracene	ND	66	26
Chrysene	ND	330	28
bis(2-Ethylhexyl)phthalate	ND	330	26
Di-n-octylphthalate	ND	330	22
Benzo(b)fluoranthene	ND	66	28
Benzo(k)fluoranthene	ND	66	35
Benzo(a)pyrene	ND	66	32
Indeno(1,2,3-cd)pyrene	ND	66	24
Dibenz(a,h)anthracene	ND	66	26
Benzo(g,h,i)perylene	ND	330	28

Surrogate	%REC	Limits
2-Fluorophenol	60	25-121
Phenol-d5	59	24-113
2,4,6-Tribromophenol	52	19-122
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	53	30-115
Terphenyl-d14	55	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	DUP100704A	Batch#:	95302
Lab ID:	175141-009	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/13/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	36
Phenol	ND	340	34
bis(2-Chloroethyl)ether	ND	340	46
2-Chlorophenol	ND	340	34
1,3-Dichlorobenzene	ND	340	38
1,4-Dichlorobenzene	ND	340	30
Benzyl alcohol	ND	340	35
1,2-Dichlorobenzene	ND	340	32
2-Methylphenol	ND	340	45
bis(2-Chloroisopropyl) ether	ND	340	37
4-Methylphenol	ND	340	38
N-Nitroso-di-n-propylamine	ND	340	25
Hexachloroethane	ND	340	32
Nitrobenzene	ND	340	34
Isophorone	ND	340	30
2-Nitrophenol	ND	680	44
2,4-Dimethylphenol	ND	340	83
Benzoic acid	ND	1,700	150
bis(2-Chloroethoxy)methane	ND	340	37
2,4-Dichlorophenol	ND	340	38
1,2,4-Trichlorobenzene	ND	340	37
Naphthalene	ND	340	33
4-Chloroaniline	ND	340	21
Hexachlorobutadiene	ND	340	43
4-Chloro-3-methylphenol	ND	340	41
2-Methylnaphthalene	ND	340	33
Hexachlorocyclopentadiene	ND	1,700	86
2,4,6-Trichlorophenol	ND	340	36
2,4,5-Trichlorophenol	ND	340	40
2-Chloronaphthalene	ND	340	28
2-Nitroaniline	ND	680	33
Dimethylphthalate	ND	340	37
Acenaphthylene	ND	340	27
2,6-Dinitrotoluene	ND	340	26
3-Nitroaniline	ND	680	18
Acenaphthene	ND	680	28
2,4-Dinitrophenol	ND	1,700	210
4-Nitrophenol	ND	680	46
Dibenzofuran	ND	340	33
2,4-Dinitrotoluene	ND	340	42
Diethylphthalate	ND	340	37
Fluorene	ND	340	31
4-Chlorophenyl-phenylether	ND	340	46
4-Nitroaniline	ND	680	31
4,6-Dinitro-2-methylphenol	ND	1,700	360
N-Nitrosodiphenylamine	ND	340	45
Azobenzene	ND	340	46
4-Bromophenyl-phenylether	ND	340	47
Hexachlorobenzene	ND	340	44
Pentachlorophenol	ND	680	44
Phenanthrene	ND	340	41

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	DUP100704A	Batch#:	95302
Lab ID:	175141-009	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	ug/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/13/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Anthracene	ND	340	38
Di-n-butylphthalate	ND	340	42
Fluoranthene	ND	340	48
Pyrene	ND	340	29
Butylbenzylphthalate	ND	340	20
3,3'-Dichlorobenzidine	ND	680	21
Benzo(a)anthracene	ND	68	27
Chrysene	ND	340	28
bis(2-Ethylhexyl)phthalate	ND	340	27
Di-n-octylphthalate	ND	340	22
Benzo(b)fluoranthene	ND	68	28
Benzo(k)fluoranthene	ND	68	35
Benzo(a)pyrene	ND	68	32
Indeno(1,2,3-cd)pyrene	ND	68	25
Dibenz(a,h)anthracene	ND	68	27
Benzo(g,h,i)perylene	ND	340	29

Surrogate	%REC	Limits
2-Fluorophenol	53	25-121
Phenol-d5	53	24-113
2,4,6-Tribromophenol	43	19-122
Nitrobenzene-d5	51	23-120
2-Fluorobiphenyl	47	30-115
Terphenyl-d14	48	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267414	Batch#:	95302
Matrix:	Soil	Prepared:	10/08/04
Units:	ug/Kg	Analyzed:	10/10/04
Basis:	as received		

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	25
Phenol	ND	340	23
bis(2-Chloroethyl)ether	ND	340	24
2-Chlorophenol	ND	340	25
1,3-Dichlorobenzene	ND	340	20
1,4-Dichlorobenzene	ND	340	21
Benzyl alcohol	ND	340	26
1,2-Dichlorobenzene	ND	340	19
2-Methylphenol	ND	340	22
bis(2-Chloroisopropyl) ether	ND	340	28
4-Methylphenol	ND	340	24
N-Nitroso-di-n-propylamine	ND	340	22
Hexachloroethane	ND	340	20
Nitrobenzene	ND	340	28
Isophorone	ND	340	21
2-Nitrophenol	ND	680	21
2,4-Dimethylphenol	ND	340	65
Benzoic acid	ND	1,700	250
bis(2-Chloroethoxy)methane	ND	340	24
2,4-Dichlorophenol	ND	340	29
1,2,4-Trichlorobenzene	ND	340	24
Naphthalene	ND	340	20
4-Chloroaniline	ND	340	32
Hexachlorobutadiene	ND	340	24
4-Chloro-3-methylphenol	ND	340	28
2-Methylnaphthalene	ND	340	22
Hexachlorocyclopentadiene	ND	1,700	30
2,4,6-Trichlorophenol	ND	340	28
2,4,5-Trichlorophenol	ND	340	30
2-Chloronaphthalene	ND	340	19
2-Nitroaniline	ND	680	29
Dimethylphthalate	ND	340	27
Acenaphthylene	ND	340	22
2,6-Dinitrotoluene	ND	340	27
3-Nitroaniline	ND	680	13
Acenaphthene	ND	680	10
2,4-Dinitrophenol	ND	1,700	320
4-Nitrophenol	ND	680	39
Dibenzofuran	ND	340	24
2,4-Dinitrotoluene	ND	340	28
Diethylphthalate	ND	340	27
Fluorene	ND	340	11
4-Chlorophenyl-phenylether	ND	340	25
4-Nitroaniline	ND	680	21
4,6-Dinitro-2-methylphenol	ND	1,700	270
N-Nitrosodiphenylamine	ND	340	27
Azobenzene	ND	340	28
4-Bromophenyl-phenylether	ND	340	26
Hexachlorobenzene	ND	340	24
Pentachlorophenol	ND	680	44
Phenanthrene	ND	340	10
Anthracene	ND	340	11
Di-n-butylphthalate	ND	340	32

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267414	Batch#:	95302
Matrix:	Soil	Prepared:	10/08/04
Units:	ug/Kg	Analyzed:	10/10/04
Basis:	as received		

Analyte	Result	RL	MDL
Fluoranthene	ND	340	13
Pyrene	ND	340	10
Butylbenzylphthalate	ND	340	35
3,3'-Dichlorobenzidine	ND	680	47
Benzo(a)anthracene	ND	68	30
Chrysene	ND	340	11
bis(2-Ethylhexyl)phthalate	ND	340	37
Di-n-octylphthalate	ND	340	31
Benzo(b)fluoranthene	ND	68	26
Benzo(k)fluoranthene	ND	68	10
Benzo(a)pyrene	ND	68	10
Indeno(1,2,3-cd)pyrene	ND	68	9.8
Dibenz(a,h)anthracene	ND	68	10
Benzo(g,h,i)perylene	ND	340	11

Surrogate	%REC	Limits
2-Fluorophenol	56	25-121
Phenol-d5	51	24-113
2,4,6-Tribromophenol	46	19-122
Nitrobenzene-d5	51	23-120
2-Fluorobiphenyl	56	30-115
Terphenyl-d14	48	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC267415	Batch#:	95302
Matrix:	Soil	Prepared:	10/08/04
Units:	ug/Kg	Analyzed:	10/10/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,361	1,760	52	40-119
2-Chlorophenol	3,361	2,024	60	39-119
1,4-Dichlorobenzene	1,681	969.9	58	36-111
N-Nitroso-di-n-propylamine	1,681	943.7	56	35-117
1,2,4-Trichlorobenzene	1,681	952.7	57	36-107
4-Chloro-3-methylphenol	3,361	1,935	58	41-122
Acenaphthene	1,681	914.0	54	36-111
4-Nitrophenol	3,361	1,965	58	45-130
2,4-Dinitrotoluene	1,681	914.3	54	43-114
Pentachlorophenol	3,361	1,889	56	39-119
Pyrene	1,681	954.9	57	35-142

Surrogate	%REC	Limits
2-Fluorophenol	58	25-121
Phenol-d5	55	24-113
2,4,6-Tribromophenol	58	19-122
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	55	30-115
Terphenyl-d14	51	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	95302
MSS Lab ID:	174942-010	Sampled:	09/27/04
Matrix:	Soil	Received:	09/28/04
Units:	ug/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/10/04
Diln Fac:	1.000		

Type: MS Moisture: 46%
Lab ID: QC267416

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<40.74	6,114	3,069	50	26-100
2-Chlorophenol	<46.30	6,114	3,461	57	25-102
1,4-Dichlorobenzene	<37.04	3,057	1,585	52	28-104
N-Nitroso-di-n-propylamine	<38.89	3,057	1,628	53	41-126
1,2,4-Trichlorobenzene	<42.59	3,057	1,595	52	38-107
4-Chloro-3-methylphenol	<50.00	6,114	3,337	55	26-103
Acenaphthene	<18.52	3,057	1,544	50	31-137
4-Nitrophenol	<70.37	6,114	3,423	56	11-114
2,4-Dinitrotoluene	<51.85	3,057	1,549	51	28-100
Pentachlorophenol	<79.63	6,114	2,425	40	17-109
Pyrene	568.5	3,057	1,950	45	35-142

Surrogate	%REC	Limits
2-Fluorophenol	54	25-121
Phenol-d5	53	24-113
2,4,6-Tribromophenol	55	19-122
Nitrobenzene-d5	52	23-120
2-Fluorobiphenyl	51	30-115
Terphenyl-d14	52	18-137

Type: MSD Moisture: 46%
Lab ID: QC267417

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	6,150	3,360	55	26-100	8	35
2-Chlorophenol	6,150	3,822	62	25-102	9	50
1,4-Dichlorobenzene	3,075	1,817	59	28-104	13	27
N-Nitroso-di-n-propylamine	3,075	1,846	60	41-126	12	38
1,2,4-Trichlorobenzene	3,075	1,780	58	38-107	10	23
4-Chloro-3-methylphenol	6,150	3,747	61	26-103	11	33
Acenaphthene	3,075	1,706	55	31-137	9	19
4-Nitrophenol	6,150	3,724	61	11-114	8	50
2,4-Dinitrotoluene	3,075	1,701	55	28-100	9	47
Pentachlorophenol	6,150	2,348	38	17-109	4	48
Pyrene	3,075	2,186	53	35-142	11	36

Surrogate	%REC	Limits
2-Fluorophenol	60	25-121
Phenol-d5	57	24-113
2,4,6-Tribromophenol	59	19-122
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	56	30-115
Terphenyl-d14	57	18-137

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ401.D

Date : 04-OCT-2004 09:49

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

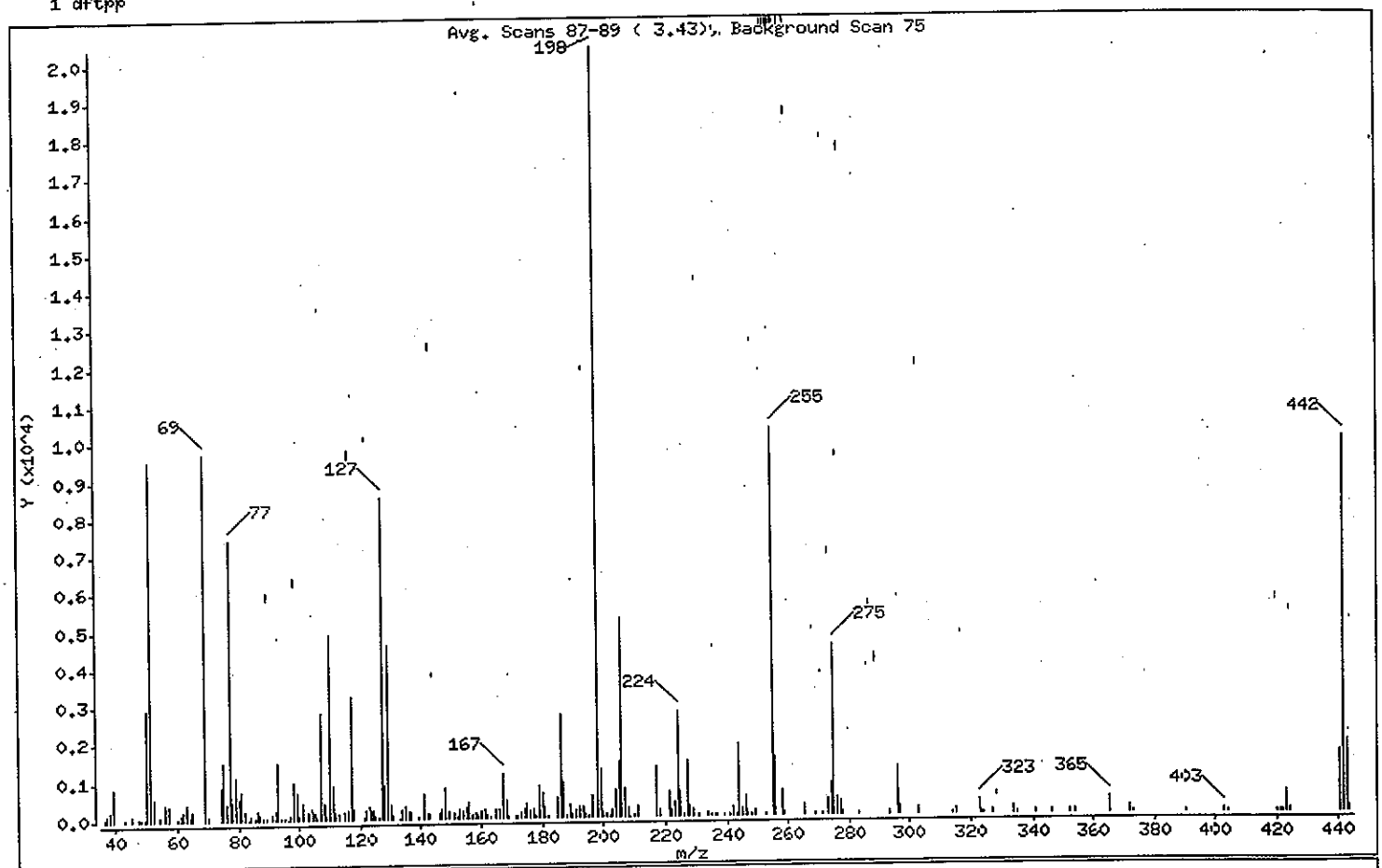
Column phase: Xti 5

Instrument: MSBNA04.i

Operator: BVD

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.84
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.62
70	Less than 2.00% of mass 69	0.55 (1.15)
127	40.00 - 60.00% of mass 198	41.99
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.27
275	10.00 - 30.00% of mass 198	22.14
365	Greater than 1.00% of mass 198	2.01
441	Present, but less than mass 443	7.78
442	40.00 - 99.99% of mass 198	48.83
443	17.00 - 23.00% of mass 442	9.11 (18.66)

8270 BFB

10/05/04

16

10/05/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD01.D

Date : 13-OCT-2004 10:31

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

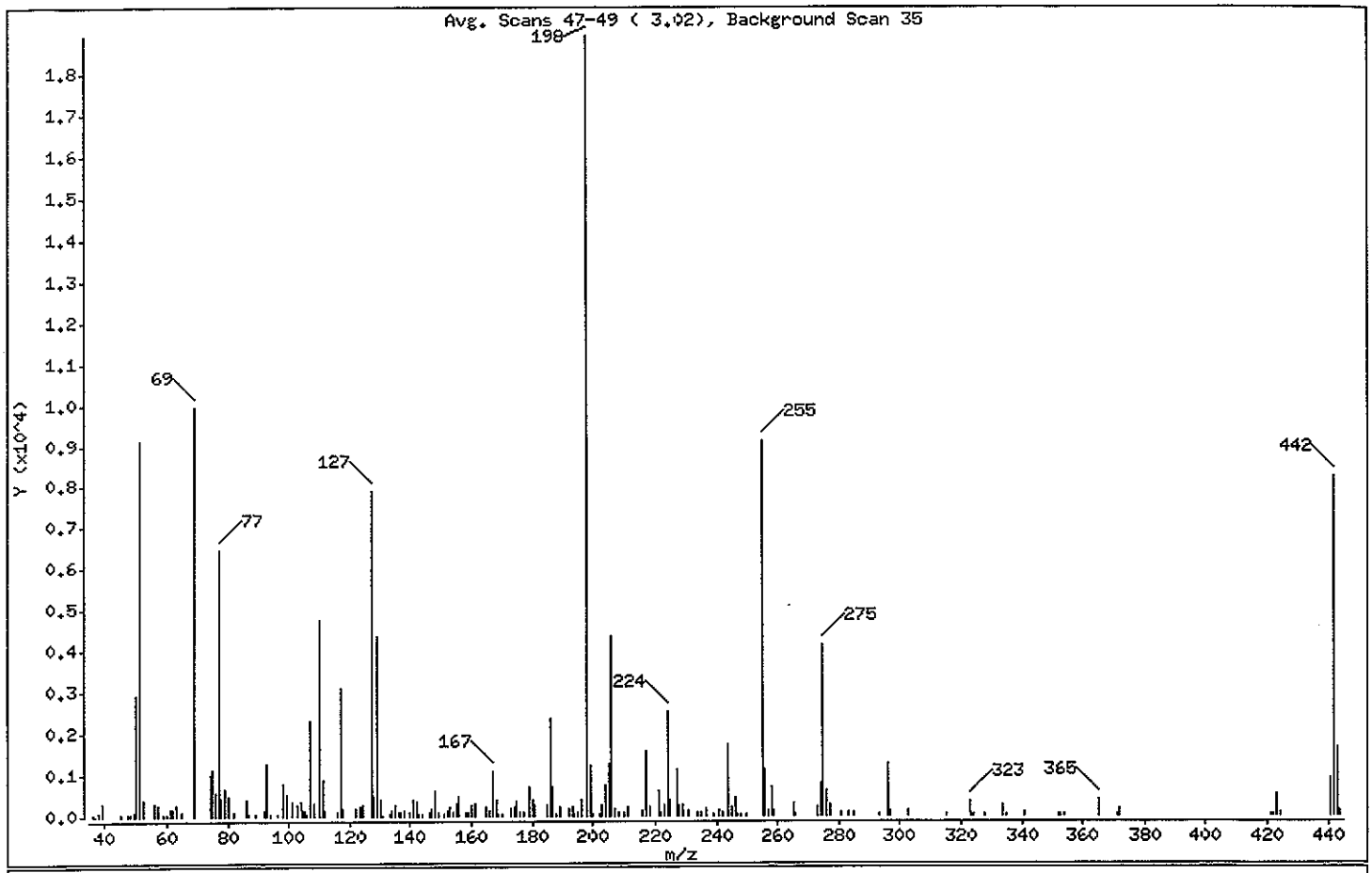
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.18
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.42
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.65
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 30.00% of mass 198	21.92
365	Greater than 1.00% of mass 198	2.07
441	Present, but less than mass 443	4.92
442	40.00 - 99.99% of mass 198	43.46
443	17.00 - 23.00% of mass 442	8.73 (20.08)

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ601.D

Date : 06-OCT-2004 10:05

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

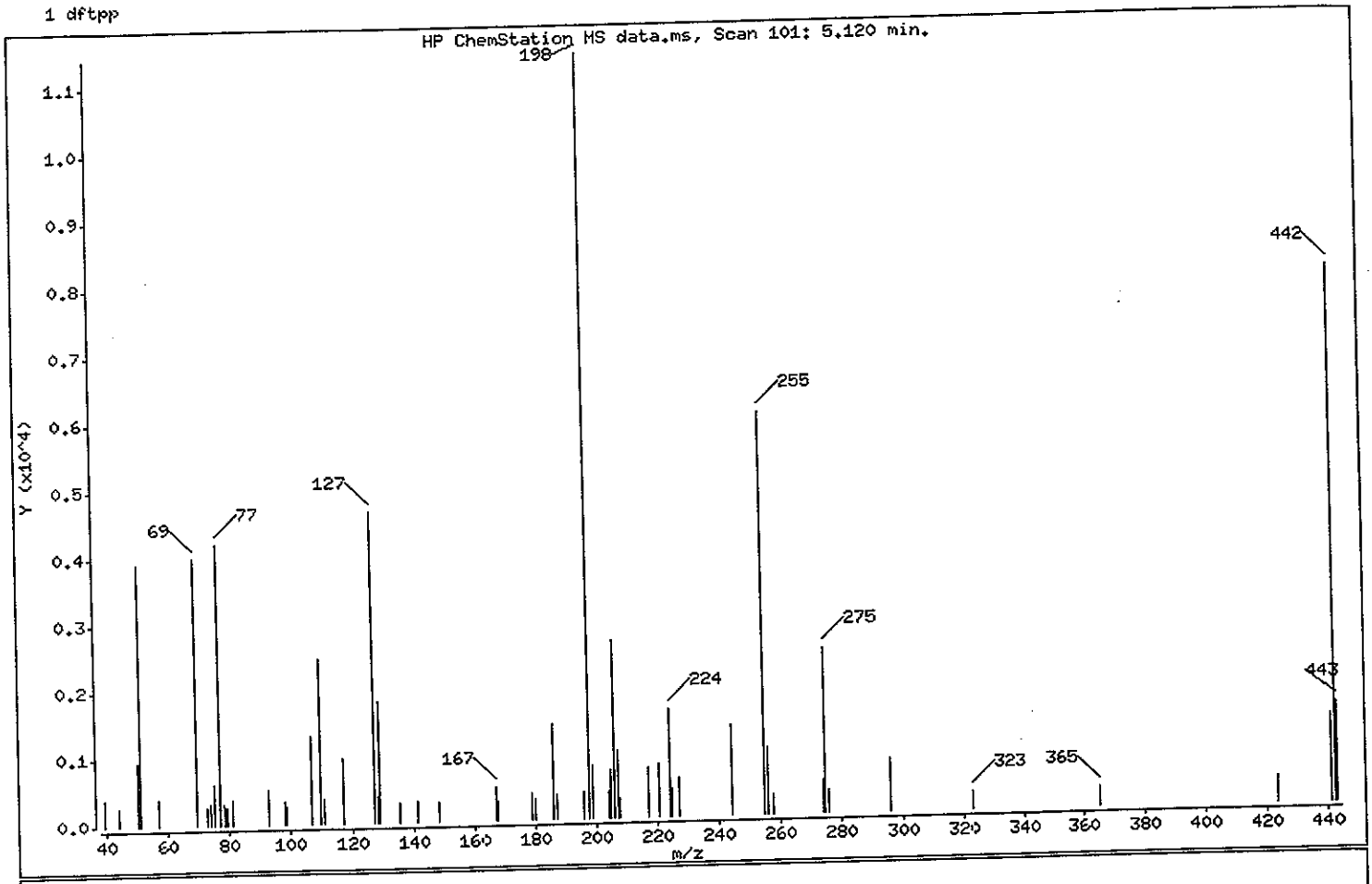
Instrument: MSBNA05.i

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.41
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.95
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	40.80
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	21.70
365	Greater than 1.00% of mass 198	2.44
441	Present, but less than mass 443	11.44
442	40.00 - 99.99% of mass 198	70.30
443	17.00 - 23.00% of mass 442	13.10 (18.63)

10/07/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA01.D

Date : 10-OCT-2004 13:08

Client ID: dftpp tune std

Instrument: MSBNA05.i

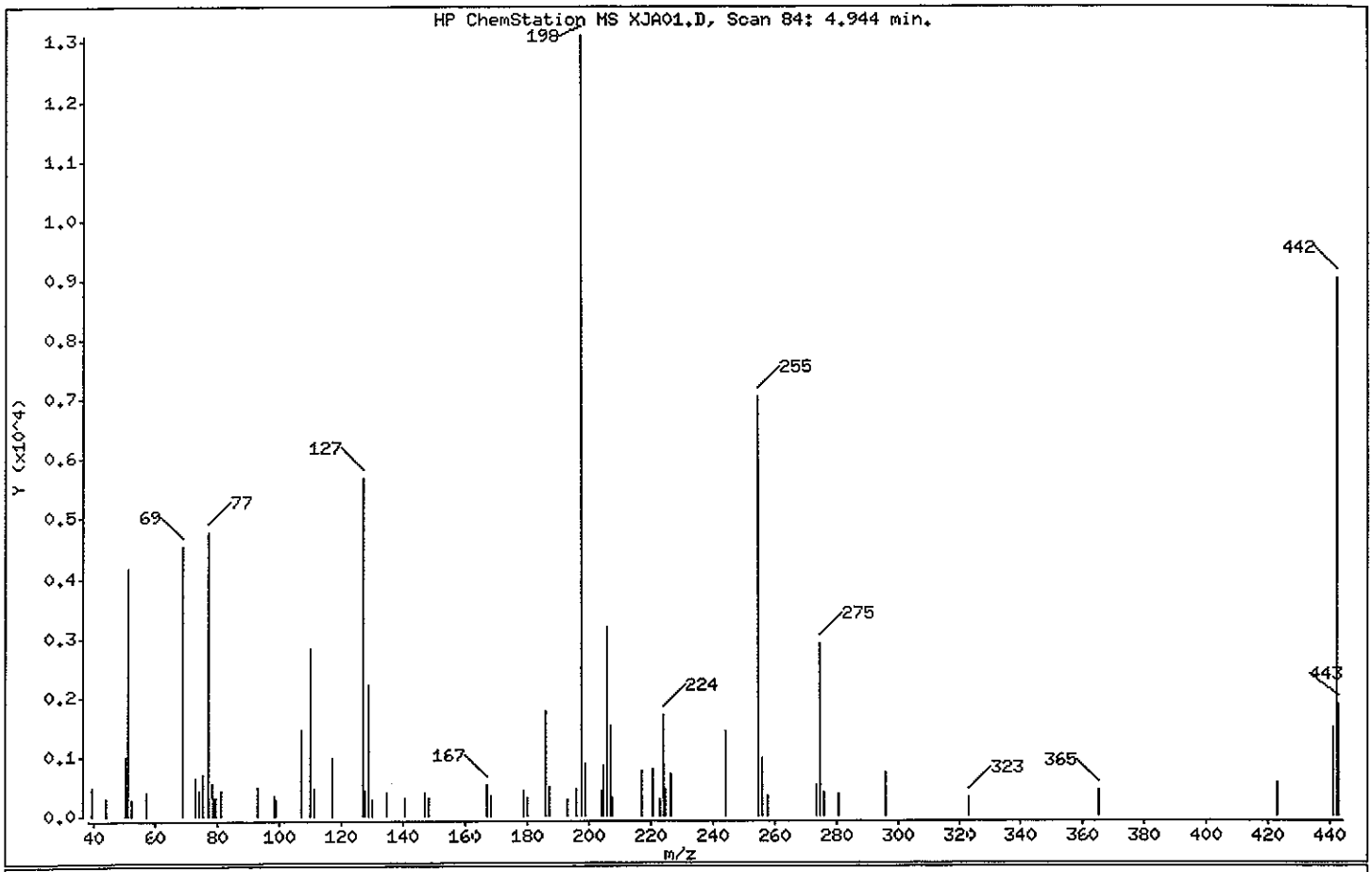
Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.71
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.54
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	43.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	22.17
365	Greater than 1.00% of mass 198	3.22
441	Present, but less than mass 443	11.40
442	40.00 - 99.99% of mass 198	68.98
443	17.00 - 23.00% of mass 442	14.34 (20.79)

10/10/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC01.D

Date : 12-OCT-2004 11:02

Client ID: dftpp tune std

Instrument: MSBNA05.i

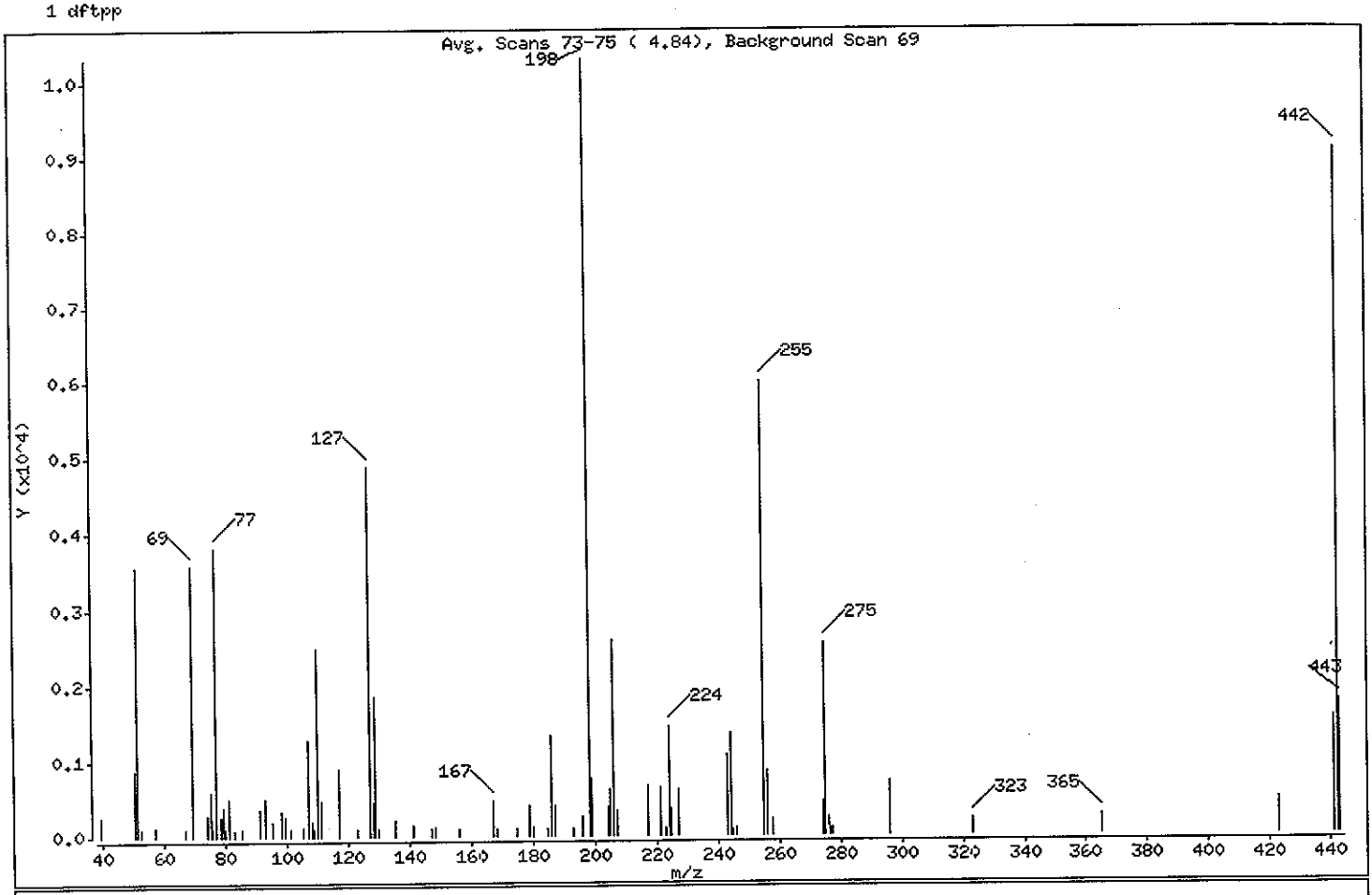
Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.48
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.72
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.35
275	10.00 - 30.00% of mass 198	24.61
365	Greater than 1.00% of mass 198	2.59
441	Present, but less than mass 443	15.00
442	40.00 - 99.99% of mass 198	88.21
443	17.00 - 23.00% of mass 442	17.08 (19.36)

10/13/04

10/13/04

BNA04 8270 Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534400909001 Name: 6PTBNA4 Type: (normal) Date: 04-OCT-2004 11:44 Inj Vol (uL): 1

See quant reports for manual integrations due to spiking/tailing.

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	wj404	534400909004	2ug/ml ICAL STD	04-OCT-2004 11:44	04WS1856
2	wj405	534400909005	10ug/ml ICAL STD	04-OCT-2004 12:18	04WS1857
3	wj406	534400909006	20ug/ml ICAL STD	04-OCT-2004 12:53	04WS1858
4	wj407	534400909007	50ug/ml ICAL STD	04-OCT-2004 13:29	04WS1859
5	wj409	534400909009	120ug/ml ICAL STD	04-OCT-2004 14:38	04WS1861
6	wj410	534400909010	160ug/ml ICAL STD	04-OCT-2004 15:14	04WS1862
7	wj412	534400909012	80ug/ml ICAL STD	04-OCT-2004 17:46	04WS1860

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.4385m	0.4421m	0.4431	0.4460	0.4407	0.4415m	AVRG	R		2.262537		ng	0.4420	1	0.0500	0.99	15	
Pyridine		0.7381m	0.7563m	0.7840	0.7701m	0.7780m	0.7493m	AVRG	R		1.311234		ng	0.7626	2	0.0500	0.99	15	
Phenol		1.3848	1.3147	1.2302	1.2589	1.2442	1.2313	AVRG	R		0.782876		ng	1.2773	5	0.0500	0.99	15	
Aniline		1.4324	1.4058	1.4009	1.3824	1.3512	1.3610	AVRG	R		0.719973		ng	1.3889	2	0.0500	0.99	15	
bis(2-Chloroethyl)ether		0.6108	0.6349m	0.8363m	0.9899m	1.0155m	0.9154m	QUAD	R	5.319919	1.070519	-0.00076	ng	0.8338	0.999	0.0500	0.99	15	
2-Chlorophenol		1.2564	1.2149	1.2548	1.2224	1.2059	1.2293	AVRG	R		0.812604		ng	1.2306	2	0.0500	0.99	15	
1,3-Dichlorobenzene		1.4766	1.4387	1.4271	1.3632	1.3617	1.4065	AVRG	R		0.708057		ng	1.4123	3	0.0500	0.99	15	
1,4-Dichlorobenzene		1.5164	1.4705	1.4722	1.4300	1.4118	1.4662	AVRG	R		0.684378		ng	1.4612	3	0.0500	0.99	15	
Benzyl alcohol		0.6592	0.6588	0.6373	0.6768	0.6724	0.6730	AVRG	R		1.508528		ng	0.6629	2	0.0500	0.99	15	
1,2-Dichlorobenzene		1.4168	1.3246	1.3066	1.3260	1.3234	1.3293	AVRG	R		0.747495		ng	1.3378	3	0.0500	0.99	15	
2-Methylphenol		0.8564	0.8116	0.7974	0.8163	0.8102	0.8169	AVRG	R		1.222312		ng	0.8181	2	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		1.5789	1.5156	1.5566	1.7027	1.7407	1.5924	AVRG	R		0.619392		ng	1.6145	5	0.0500	0.99	15	
4-Methylphenol		1.2314	1.2051	1.1937	1.2374m	1.2740m	1.2162	AVRG	R		0.815454		ng	1.2263	2	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.6060	0.5860	0.6208	0.6861	0.6540	0.6252	AVRG	R		1.588133		ng	0.6297	6	0.0500	0.99	15	
Hexachloroethane		0.6582	0.6622	0.6508	0.6669	0.6600	0.6332	AVRG	R		1.526234		ng	0.6552	2	0.0500	0.99	15	
Nitrobenzene		0.3586	0.3587	0.3493	0.3476	0.3340	0.3395	AVRG	R		2.873779		ng	0.3480	3	0.0500	0.99	15	
Isophorone		0.6878	0.6655	0.6531	0.6624m	0.6462m	0.6694	AVRG	R		1.505888		ng	0.6641	2	0.0500	0.99	15	
2-Nitrophenol		0.2414	0.2270	0.2217	0.2396	0.2421	0.2184	AVRG	R		4.315979		ng	0.2317	5	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL: Ok except Benzidine fails %RSD + r^2
CCV: 3-Nitroaniline ↓; 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail %D
→ Pyridine ↑ fails warning limits

AK 10/08/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534400909001 Name: 6PTBNA4 Type: (normal) Date: 04-OCT-2004 11:44 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.3080	0.2845	0.2775	0.2761	0.2664	0.2764	AVRG	R		3.552349		ng	0.2815	5	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4107	0.3884	0.3723	0.3829	0.3731	0.3860	AVRG	R		2.593499		ng	0.3856	4	0.0500	0.99	15	
Benzoic acid		0.0953	0.1238	0.1684	0.2069m	0.2205m	0.1969	QUAD	R	6.664287	5.090533	-0.02125	ng	0.1686	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3646	0.3522	0.3540	0.3756	0.3633	0.3603	AVRG	R		2.765029		ng	0.3617	2	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.4286	0.4237	0.4256	0.4389	0.4317	0.4180	AVRG	R		2.337952		ng	0.4277	2	0.0500	0.99	15	
Naphthalene	1.0735	1.1108	1.0436	1.0430	1.1215	1.1404	1.0148	AVRG	R		0.927454		ng	1.0782	4	0.0500	0.99	15	
4-Chloroaniline		0.4371	0.4416	0.4271	0.4328	0.4348	0.4353	AVRG	R		2.299882		ng	0.4348	1	0.0500	0.99	15	
Hexachlorobutadiene		0.3094	0.3025	0.3071	0.3114	0.2941	0.3063	AVRG	R		3.277356		ng	0.3051	2	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.3554	0.3507	0.3374	0.3491	0.3422	0.3269	AVRG	R		2.910373		ng	0.3436	3	0.0500	0.99	15	
2-Methylnaphthalene	0.8033	0.7654	0.7564	0.7528	0.8152	0.8084	0.7755	AVRG	R		1.278052		ng	0.7824	3	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.1931	0.2542	0.3100	0.3627	0.3638	0.2996	QUAD	R	4.488277	3.153619	-0.00887	ng	0.2972	0.997	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.4523	0.4307	0.4715	0.5106	0.5046	0.4559	AVRG	R		2.123393		ng	0.4709	7	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.4571	0.4863	0.4346	0.4809	0.5047	0.4763	AVRG	R		2.112727		ng	0.4733	5	0.0500	0.99	15	
2-Chloronaphthalene		1.1617	1.1209	1.0883	1.1640	1.1728	1.1074	AVRG	R		0.880390		ng	1.1359	3	0.0500	0.99	15	
2-Nitroaniline		0.3432	0.3236	0.3218	0.3346	0.3372	0.3269	AVRG	R		3.018986		ng	0.3312	3	0.0500	0.99	15	
Dimethylphthalate		1.6633	1.6102	1.5328	1.5523	1.5553	1.5632	AVRG	R		0.633094		ng	1.5795	3	0.0500	0.99	15	
2,6-Dinitrotoluene		0.3636	0.3508	0.3600	0.3711	0.4258	0.3569	AVRG	R		2.692640		ng	0.3714	7	0.0500	0.99	15	
Acenaphthylene	1.8231	1.8499	1.7910	1.7604	1.8910	1.8994	1.8529	AVRG	R		0.544002		ng	1.8382	3	0.0500	0.99	15	
3-Nitroaniline		0.2934	0.2616	0.2767	0.3015	0.3080	0.2903	AVRG	R		3.465194		ng	0.2886	6	0.0500	0.99	15	
Acenaphthene	0.9995	1.0884	1.0450	1.0208	1.0972	1.1325	1.0893	AVRG	R		0.936740		ng	1.0675	4	0.0500	0.99	15	
2,4-Dinitrophenol		0.1440	0.1903	0.2276	0.2648	0.2605	0.2375	QUAD	R	5.238211	3.929939	-0.00619	ng	0.2208	0.999	0.0500	0.99	15	
4-Nitrophenol		0.1995	0.2127	0.2293	0.2364	0.2300	0.2467	AVRG	R		4.429581		ng	0.2258	8	0.0500	0.99	15	
Dibenzofuran		1.6823	1.6216	1.5380	1.8303	1.8069	1.5983	AVRG	R		0.595397		ng	1.6796	7	0.0500	0.99	15	
2,4-Dinitrotoluene		0.4692	0.4710	0.4542	0.4690	0.5013	0.4732	AVRG	R		2.114298		ng	0.4730	3	0.0500	0.99	15	
Diethylphthalate		1.7169	1.6634	1.6001	1.6600	1.5823	1.5538	AVRG	R		0.613719		ng	1.6294	4	0.0500	0.99	15	
Fluorene	1.2321	1.3263	1.2687	1.3494	1.3937	1.4210	1.4491	AVRG	R		0.741497		ng	1.3486	6	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.7430	0.7468	0.8389	0.8834	0.8203	0.8502	AVRG	R		1.228901		ng	0.8137	7	0.0500	0.99	15	
4-Nitroaniline		0.2073	0.2083	0.2194	0.2634	0.2646	0.2501	AVRG	R		4.245842		ng	0.2355	11	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1385	0.1597	0.1666	0.1871	0.1980	0.1759	AVRG	R		5.849010		ng	0.1710	12	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.5333	0.5193	0.4983	0.5572	0.5720	0.5293	AVRG	R		1.869497		ng	0.5349	5	0.0500	0.99	15	
Azobenzene		0.7216	0.7255	0.6792	0.7954	0.8081	0.7481	AVRG	R		1.339923		ng	0.7463	7	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534400909001 Name: 6PTBNA4 Type: (normal) Date: 04-OCT-2004 11:44 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2604	0.2586	0.2629	0.2839	0.2843	0.2701	AVRG	R		3.703296		ng	0.2700	4	0.0500	0.99	15	
Hexachlorobenzene		0.3150	0.3043	0.3138	0.3213	0.3158	0.3246	AVRG	R		3.166539		ng	0.3158	2	0.0500	0.99	15	
Pentachlorophenol		0.1653	0.1822	0.1847	0.2164	0.2194	0.2003	AVRG	R		5.136312		ng	0.1947	11	0.0500	0.99	15	
Phenanthrene	1.0582	1.0839	1.0657	1.0359	1.1873	1.1309	1.0603	AVRG	R		0.918354		ng	1.0889	5	0.0500	0.99	15	
Anthracene	1.0811	1.0858	1.0734	1.0495	1.1247	1.0627	1.0591	AVRG	R		0.928826		ng	1.0766	2	0.0500	0.99	15	
Carbazole		0.8208	0.7306	0.6581	0.8422	0.8094	0.7301	AVRG	R		1.306863		ng	0.7652	9	0.0500	0.99	15	
Di-n-butylphthalate		1.7465	1.7054	1.6242	1.5514	1.5303	1.6036	AVRG	R		0.614664		ng	1.6269	5	0.0500	0.99	15	
Fluoranthene	1.1820	1.2479	1.2247	1.2423	1.3061	1.2350	1.2667	AVRG	R		0.804158		ng	1.2435	3	0.0500	0.99	15	
Benzidine		0.1397	0.1704	0.1135	0.0948	0.1012	0.1312	AVRG	R		7.991822		ng	0.1251	22	0.0500	0.99	15	rsd
Pyrene	1.3909	1.4379	1.3843	1.3780	1.4488	1.4579	1.4269	AVRG	R		0.705312		ng	1.4178	2	0.0500	0.99	15	
Butylbenzylphthalate		0.8196	0.7942	0.7362	0.7551	0.7594	0.8242	AVRG	R		1.279668		ng	0.7815	5	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3741	0.3448	0.4107	0.4548	0.4084	0.4683	AVRG	R		2.437919		ng	0.4102	11	0.0500	0.99	15	
Benzo(a)anthracene	1.2972	1.2625	1.2337	1.2820	1.2237	1.1831	1.3430	AVRG	R		0.793194		ng	1.2607	4	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		1.1398	1.1191	1.1215	1.1223	1.1264	1.2728	AVRG	R		0.869333		ng	1.1503	5	0.0500	0.99	15	
Chrysene	1.2630	1.1778	1.1508	1.2694	1.1265	1.1337	1.2285	AVRG	R		0.838351		ng	1.1928	5	0.0500	0.99	15	
Di-n-octylphthalate		2.1807	2.1938	2.3105	2.7323	2.7705	2.6924	AVRG	R		0.403219		ng	2.4800	11	0.0500	0.99	15	
Benzo(b)fluoranthene	1.4521m	1.3529m	1.4886m	1.5380m	2.1966	2.3714	1.7763	QUAD	R	2.707313	0.597962	-0.00050	ng	1.7394	0.997	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3666	1.5506	1.3657	1.5589	1.2698	1.0834	1.4986	AVRG	R		0.722120		ng	1.3848	12	0.0500	0.99	15	
Benzo(a)pyrene	1.1702	1.2096	1.2209	1.2538	1.3032	1.3508	1.2916	AVRG	R		0.795447		ng	1.2572	5	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.1531	1.2714	1.2683	1.2401	1.1994	1.1699	1.1985	AVRG	R		0.823461		ng	1.2144	4	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9671	1.0124	1.0067	1.0035	0.9774	0.9508	0.9743	AVRG	R		1.015637		ng	0.9846	2	0.0500	0.99	15	
Benzo(g,h,i)perylene	0.9932	1.0099	1.0075	0.9877	0.9006	0.8698	0.9111	AVRG	R		1.047929		ng	0.9543	6	0.0500	0.99	15	
2-Fluorophenol		1.1043	1.0698	1.1060	1.0590	1.0469	1.0820	AVRG	R		0.927636		ng	1.0780	2	0.0500	0.99	15	
Phenol-d5		1.1931	1.1659	1.1821	1.1753	1.1597	1.1895	AVRG	R		0.849178		ng	1.1776	1	0.0500	0.99	15	
Nitrobenzene-d5		0.3937	0.3884	0.3790	0.3702	0.3682	0.3706	AVRG	R		2.642916		ng	0.3784	3	0.0500	0.99	15	
2-Fluorobiphenyl		1.4110	1.3641	1.3564	1.4509	1.4534	1.4088	AVRG	R		0.710513		ng	1.4074	3	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2749	0.2620	0.2803	0.3160	0.3031	0.2839	AVRG	R		3.487860		ng	0.2867	7	0.0500	0.99	15	
Terphenyl-d14		1.0726	1.0616	1.0993	1.0853	1.0369	1.1857	AVRG	R		0.917232		ng	1.0902	5	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA04 Calname : 6PTBNA4
Calnum : 534400909001 Caldate : 04-OCT-2004 Caltype :

ICV 534400909013 (wj413) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodimethylamine	P	534400909013	04-OCT-2004	80.000	89.476	ng	12	30	
Pyridine	P	534400909013	04-OCT-2004	80.000	98.986	ng	**24**	30	!v+
Phenol	P	534400909013	04-OCT-2004	80.000	82.158	ng	3	20	
Aniline	P	534400909013	04-OCT-2004	80.000	76.458	ng	-4	30	
bis(2-Chloroethyl)ether	P	534400909013	04-OCT-2004	80.000	80.714	ng	1	30	
2-Chlorophenol	P	534400909013	04-OCT-2004	80.000	84.072	ng	5	30	
1,3-Dichlorobenzene	P	534400909013	04-OCT-2004	80.000	81.215	ng	2	30	
1,4-Dichlorobenzene	P	534400909013	04-OCT-2004	80.000	80.664	ng	1	20	
Benzyl alcohol	P	534400909013	04-OCT-2004	80.000	93.185	ng	16	30	
1,2-Dichlorobenzene	P	534400909013	04-OCT-2004	80.000	84.371	ng	5	30	
2-Methylphenol	P	534400909013	04-OCT-2004	80.000	80.011	ng	0	30	
bis(2-Chloroisopropyl) ether	P	534400909013	04-OCT-2004	80.000	79.099	ng	-1	30	
4-Methylphenol	P	534400909013	04-OCT-2004	80.000	83.405	ng	4	30	
N-Nitroso-di-n-propylamine	P	534400909013	04-OCT-2004	80.000	87.099	ng	9	30	
Hexachloroethane	P	534400909013	04-OCT-2004	80.000	81.497	ng	2	30	
Nitrobenzene	P	534400909013	04-OCT-2004	80.000	80.336	ng	0	30	
Isophorone	P	534400909013	04-OCT-2004	80.000	89.401	ng	12	30	
2-Nitrophenol	P	534400909013	04-OCT-2004	80.000	83.017	ng	4	20	
2,4-Dimethylphenol	P	534400909013	04-OCT-2004	80.000	82.804	ng	4	30	
bis(2-Chloroethoxy)methane	P	534400909013	04-OCT-2004	80.000	77.715	ng	-3	30	
Benzoic acid	P	534400909013	04-OCT-2004	80.000	101.12	ng	26	40	
2,4-Dichlorophenol	P	534400909013	04-OCT-2004	80.000	82.793	ng	3	20	
1,2,4-Trichlorobenzene	P	534400909013	04-OCT-2004	80.000	80.442	ng	1	30	
Naphthalene	P	534400909013	04-OCT-2004	80.000	81.051	ng	1	30	
4-Chloroaniline	P	534400909013	04-OCT-2004	80.000	71.233	ng	-11	30	
Hexachlorobutadiene	P	534400909013	04-OCT-2004	80.000	80.840	ng	1	20	
4-Chloro-3-methylphenol	P	534400909013	04-OCT-2004	80.000	85.976	ng	7	20	
2-Methylnaphthalene	P	534400909013	04-OCT-2004	80.000	80.004	ng	0	30	
Hexachlorocyclopentadiene	P	534400909013	04-OCT-2004	80.000	94.409	ng	18	40	
2,4,6-Trichlorophenol	P	534400909013	04-OCT-2004	80.000	90.323	ng	13	20	
2,4,5-Trichlorophenol	P	534400909013	04-OCT-2004	80.000	89.203	ng	12	30	
2-Chloronaphthalene	P	534400909013	04-OCT-2004	80.000	85.172	ng	6	30	
2-Nitroaniline	P	534400909013	04-OCT-2004	80.000	86.606	ng	8	30	
Dimethylphthalate	P	534400909013	04-OCT-2004	80.000	82.536	ng	3	30	
2,6-Dinitrotoluene	P	534400909013	04-OCT-2004	80.000	78.850	ng	-1	30	
Acenaphthylene	P	534400909013	04-OCT-2004	80.000	84.741	ng	6	30	
3-Nitroaniline	P	534400909013	04-OCT-2004	80.000	31.848	ng	**-60**	30	v- ***
Acenaphthene	P	534400909013	04-OCT-2004	80.000	85.476	ng	7	20	
2,4-Dinitrophenol	P	534400909013	04-OCT-2004	80.000	87.442	ng	9	40	
4-Nitrophenol	P	534400909013	04-OCT-2004	80.000	95.206	ng	19	40	
Dibenzofuran	P	534400909013	04-OCT-2004	80.000	82.133	ng	3	30	
2,4-Dinitrotoluene	P	534400909013	04-OCT-2004	80.000	88.592	ng	11	30	
Diethylphthalate	P	534400909013	04-OCT-2004	80.000	80.973	ng	1	30	
Fluorene	P	534400909013	04-OCT-2004	80.000	88.425	ng	11	30	
4-Chlorophenyl-phenylether	P	534400909013	04-OCT-2004	80.000	88.280	ng	10	40	
4-Nitroaniline	P	534400909013	04-OCT-2004	80.000	29.718	ng	**-63**	30	v- **
4,6-Dinitro-2-methylphenol	P	534400909013	04-OCT-2004	80.000	95.616	ng	20	30	

!=warning +=high bias -=low bias v=ICV

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA04 Calname : 6PTBNA4
Calnum : 534400909001 Caldate : 04-OCT-2004 Caltype :

ICV 534400909013 (wj413) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodiphenylamine	P	534400909013	04-OCT-2004	80.000	75.656	ng	-5	20	
Azobenzene	P	534400909013	04-OCT-2004	80.000	84.072	ng	5	30	
4-Bromophenyl-phenylether	P	534400909013	04-OCT-2004	80.000	81.622	ng	2	30	
Hexachlorobenzene	P	534400909013	04-OCT-2004	80.000	86.594	ng	8	30	
Pentachlorophenol	P	534400909013	04-OCT-2004	80.000	90.044	ng	13	20	
Phenanthrene	P	534400909013	04-OCT-2004	80.000	85.650	ng	7	30	
Anthracene	P	534400909013	04-OCT-2004	80.000	86.398	ng	8	30	
Carbazole	P	534400909013	04-OCT-2004	80.000	16.598	ng	-79	30	v- ***
Di-n-butylphthalate	P	534400909013	04-OCT-2004	80.000	80.679	ng	1	30	
Fluoranthene	P	534400909013	04-OCT-2004	80.000	90.378	ng	13	20	
Benzidine	P	534400909013	04-OCT-2004	80.000	22.602	ng	-72	40	v- ***
Pyrene	P	534400909013	04-OCT-2004	80.000	76.593	ng	-4	30	
Butylbenzylphthalate	P	534400909013	04-OCT-2004	80.000	79.611	ng	0	30	
3,3'-Dichlorobenzidine	P	534400909013	04-OCT-2004	80.000	61.760	ng	-23	40	
Benzo(a)anthracene	P	534400909013	04-OCT-2004	80.000	84.445	ng	6	30	
bis(2-Ethylhexyl)phthalate	P	534400909013	04-OCT-2004	80.000	85.328	ng	7	30	
Chrysene	P	534400909013	04-OCT-2004	80.000	82.198	ng	3	30	
Di-n-octylphthalate	P	534400909013	04-OCT-2004	80.000	88.323	ng	10	20	
Benzo(b)fluoranthene	P	534400909013	04-OCT-2004	80.000	87.145	ng	9	30	
Benzo(k)fluoranthene	P	534400909013	04-OCT-2004	80.000	79.949	ng	0	30	
Benzo(a)pyrene	P	534400909013	04-OCT-2004	80.000	87.130	ng	9	20	
Indeno(1,2,3-cd)pyrene	P	534400909013	04-OCT-2004	80.000	81.917	ng	2	30	
Dibenz(a,h)anthracene	P	534400909013	04-OCT-2004	80.000	86.411	ng	8	30	
Benzo(g,h,i)perylene	P	534400909013	04-OCT-2004	80.000	78.689	ng	-2	30	
2-Fluorophenol	P	534400909013	04-OCT-2004	80.000	85.063	ng	6	30	
Phenol-d5	P	534400909013	04-OCT-2004	80.000	83.235	ng	4	30	
Nitrobenzene-d5	P	534400909013	04-OCT-2004	80.000	82.384	ng	3	30	
2-Fluorobiphenyl	P	534400909013	04-OCT-2004	80.000	83.364	ng	4	30	
2,4,6-Tribromophenol	P	534400909013	04-OCT-2004	80.000	79.873	ng	0	30	
Terphenyl-d14	P	534400909013	04-OCT-2004	80.000	80.369	ng	0	30	

!=warning +=high bias -=low bias v=ICV

BNA05 8270 Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

See quant reports for manual integrations due to splitting/misidentification

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	xj604	544403805004	2ug/mL	06-OCT-2004 12:18	04WS1856
2	xj605	544403805005	10ug/mL	06-OCT-2004 12:56	04WS1857
3	xj606	544403805006	20ug/mL	06-OCT-2004 13:33	04WS1858
4	xj607	544403805007	50ug/mL	06-OCT-2004 14:11	04WS1859
5	xj608	544403805008	80ug/mL	06-OCT-2004 14:48	04WS1860
6	xj609	544403805009	120ug/mL	06-OCT-2004 15:25	04WS1861
7	xj610	544403805010	160ug/mL	06-OCT-2004 16:01	04WS1862

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MXRSD	Flags
N-Nitrosodimethylamine		0.3932	0.3889	0.4007	0.4062	0.4018	0.3891	AVRG	R		2.521228		ng	0.3966	2	0.0500	0.99	15	
Pyridine		0.9476	1.0243	1.0376	1.0740	1.0772	1.0637	AVRG	R		0.963955		ng	1.0374	5	0.0500	0.99	15	
Phenol		1.4264	1.4261	1.3755	1.3693	1.3617	1.3334	AVRG	R		0.723546		ng	1.3821	3	0.0500	0.99	15	
Aniline		0.4986	0.4996	0.4949	0.5008	0.5051	0.4914	AVRG	R		2.006485		ng	0.4984	1	0.0500	0.99	15	
bis(2-Chloroethyl)ether		0.7418	0.7077	0.7246	0.7602	0.7600	0.7203	AVRG	R		1.359130		ng	0.7358	3	0.0500	0.99	15	
2-Chlorophenol		1.1879	1.1795	1.2008	1.2271	1.2474	1.2224	AVRG	R		0.825862		ng	1.2109	2	0.0500	0.99	15	
1,3-Dichlorobenzene		1.4720	1.4606	1.4924	1.5461	1.5280	1.4734	AVRG	R		0.668704		ng	1.4954	2	0.0500	0.99	15	
1,4-Dichlorobenzene		1.4797	1.4686	1.5185	1.5059	1.4735	1.4219	AVRG	R		0.676579		ng	1.4780	2	0.0500	0.99	15	
Benzyl alcohol		0.6368	0.6503	0.6826	0.7149	0.7293	0.7218	AVRG	R		1.450761		ng	0.6893	6	0.0500	0.99	15	
1,2-Dichlorobenzene		1.3712	1.3652	1.4148	1.4452	1.4251	1.3496	AVRG	R		0.716743		ng	1.3952	3	0.0500	0.99	15	
2-Methylphenol		0.8053	0.8155	0.8274	0.8307	0.8529	0.7808	AVRG	R		1.221348		ng	0.8188	3	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		1.4944	1.4472	1.4759	1.5000	1.4834	1.3818	AVRG	R		0.683160		ng	1.4638	3	0.0500	0.99	15	
4-Methylphenol		1.2354	1.2418	1.2614	1.2869	1.3185	1.3014	AVRG	R		0.784767		ng	1.2743	3	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.5526	0.5448	0.5690	0.5561	0.5806	0.5530	AVRG	R		1.787769		ng	0.5594	2	0.0500	0.99	15	
Hexachloroethane		0.4939	0.4899	0.5136	0.5260	0.5118	0.4859	AVRG	R		1.986033		ng	0.5035	3	0.0500	0.99	15	
Nitrobenzene		0.2860	0.2799	0.2827	0.2875	0.2830	0.2711	AVRG	R		3.549958		ng	0.2817	2	0.0500	0.99	15	
Isophorone		0.5226	0.5219	0.5233	0.5279	0.5231	0.5238m	AVRG	R		1.909298		ng	0.5238	0	0.0500	0.99	15	
2-Nitrophenol		0.1905	0.1944	0.2008	0.2003	0.1938	0.1825	AVRG	R		5.162365		ng	0.1937	4	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

ICAL: Ok except Benzidine fails %RSD + r^2

ICV: Benzoic Acid ↑; Benzidine ↓; Benzo(b)fluoranthene ↑ fail %D

→ 4,6-Dinitro-2-methylphenol ↑; Carbazole ↓

Benz(b)fluoranthene calibrated to 80 ug/ml

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2727	0.2814	0.2776	0.2717	0.2608	0.2478	AVRG	R		3.721864		ng	0.2687	5	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.3664	0.3608	0.3741	0.3769	0.3664	0.3500	AVRG	R		2.733963		ng	0.3658	3	0.0500	0.99	15	
Benzoic acid		0.0806	0.1094	0.1589	0.1663	0.1783	0.1865	LINR	R	8.497146	5.154161		ng	0.1467	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3103	0.3178	0.3263	0.3277	0.3240	0.3166	AVRG	R		3.120716		ng	0.3204	2	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3844	0.3912	0.4035	0.4073	0.3965	0.3730	AVRG	R		2.546756		ng	0.3927	3	0.0500	0.99	15	
Naphthalene	0.9203	0.9465	0.9549	0.9944	1.0027	0.9467	0.8415	AVRG	R		1.059503		ng	0.9438	6	0.0500	0.99	15	
4-Chloroaniline		0.3752	0.3831	0.3965	0.4071	0.3997	0.3892	AVRG	R		2.552276		ng	0.3918	3	0.0500	0.99	15	
Hexachlorobutadiene		0.2563	0.2601	0.2682	0.2697	0.2550	0.2358	AVRG	R		3.883419		ng	0.2575	5	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2423	0.2502	0.2578	0.2592	0.2571	0.2545	AVRG	R		3.944592		ng	0.2535	3	0.0500	0.99	15	
2-Methylnaphthalene	0.6804	0.7222	0.7439	0.7744	0.7784	0.7297	0.6594	AVRG	R		1.375631		ng	0.7269	6	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2581	0.2850	0.3363	0.3651	0.3645	0.3484	AVRG	R		3.065112		ng	0.3263	14	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3993	0.3954	0.4241	0.4302	0.4283	0.4195	AVRG	R		2.403008		ng	0.4161	4	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3892	0.3905	0.4159	0.4342	0.4295	0.4101	AVRG	R		2.429734		ng	0.4116	5	0.0500	0.99	15	
2-Chloronaphthalene		1.0352	1.0270	1.0748	1.0973	1.0539	0.9580	AVRG	R		0.960597		ng	1.0410	5	0.0500	0.99	15	
2-Nitroaniline		0.2147	0.2059	0.2128	0.2201	0.2204	0.2102	AVRG	R		4.672480		ng	0.2140	3	0.0500	0.99	15	
Dimethylphthalate		1.1886	1.1943	1.2864	1.3349	1.3124	1.2438	AVRG	R		0.793605		ng	1.2601	5	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2832	0.2861	0.3083	0.3291	0.3203	0.3001	AVRG	R		3.284015		ng	0.3045	6	0.0500	0.99	15	
Acenaphthylene	1.6051	1.6301	1.6339	1.7169	1.7436	1.6550	1.4608	AVRG	R		0.611600		ng	1.6351	6	0.0500	0.99	15	
3-Nitroaniline		0.2643	0.2594	0.2911	0.3048	0.3172	0.2974	AVRG	R		3.459958		ng	0.2890	8	0.0500	0.99	15	
Acenaphthene	0.8957	1.0053	0.9967	1.0590	1.0915	1.0428	0.9469	AVRG	R		0.994608		ng	1.0054	7	0.0500	0.99	15	
2,4-Dinitrophenol		0.1046	0.1390	0.1779	0.1997	0.2190	0.2179	QUAD	R	6.760946	4.687893	-0.00964	ng	0.1763	0.999	0.0500	0.99	15	
4-Nitrophenol		0.0847	0.0906	0.0998	0.1054	0.1037	0.1001	AVRG	R		10.27018		ng	0.0974	8	0.0500	0.99	15	
Dibenzofuran		1.5501	1.5433	1.6203	1.6348	1.5509	1.4214	AVRG	R		0.643711		ng	1.5535	5	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3633	0.3680	0.3956	0.4065	0.4210	0.3937	AVRG	R		2.555161		ng	0.3914	6	0.0500	0.99	15	
Diethylphthalate		1.1224	1.1442	1.2432	1.2307	1.2187	1.0602	AVRG	R		0.854773		ng	1.1699	6	0.0500	0.99	15	
Fluorene	1.2184	1.2549	1.2339	1.3271	1.3398	1.2769	1.1862	AVRG	R		0.792109		ng	1.2625	4	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6794	0.6801	0.7227	0.7398	0.6920	0.6230	AVRG	R		1.450338		ng	0.6895	6	0.0500	0.99	15	
4-Nitroaniline		0.2356	0.2302	0.2510	0.2701	0.2791	0.2546	AVRG	R		3.945640		ng	0.2534	7	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1058	0.1237	0.1357	0.1398	0.1321	0.1180	AVRG	R		7.945568		ng	0.1259	10	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.4318	0.4393	0.4472	0.4665	0.4421	0.4024	AVRG	R		2.281963		ng	0.4382	5	0.0500	0.99	15	
Azobenzene		0.4645	0.4515	0.4479	0.4841	0.4597	0.3794	AVRG	R		2.232740		ng	0.4479	8	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2422	0.2504	0.2601	0.2628	0.2716	0.2529	AVRG	R		3.896161		ng	0.2567	4	0.0500	0.99	15	
Hexachlorobenzene		0.2760	0.2897	0.3049	0.2961	0.2776	0.2669	AVRG	R		3.506151		ng	0.2852	5	0.0500	0.99	15	
Pentachlorophenol			0.1625	0.1782	0.1871	0.1928	0.1946	AVRG	R		5.463593		ng	0.1830	7	0.0500	0.99	15	
Phenanthrene	0.9155	0.9594	0.9834	1.0066	0.9840	0.9404	0.8902	AVRG	R		1.047969		ng	0.9542	4	0.0500	0.99	15	
Anthracene	0.9558	0.9907	1.0267	1.0490	1.0082	0.9827	0.8992	AVRG	R		1.012701		ng	0.9875	5	0.0500	0.99	15	
Carbazole		0.7431	0.7331	0.7820	0.8103	0.8229	0.7956	AVRG	R		1.280122		ng	0.7812	5	0.0500	0.99	15	
Di-n-butylphthalate		1.1957	1.2457	1.1808	1.0728	1.0140	0.9346	AVRG	R		0.903120		ng	1.1073	11	0.0500	0.99	15	
Fluoranthene	1.2041	1.2795	1.3174	1.3302	1.2441	1.1556	1.0462	AVRG	R		0.816123		ng	1.2253	8	0.0500	0.99	15	
Benzidine		0.1063	0.1609	0.1487	0.1208	0.0940	0.0903	AVRG	R		8.322192		ng	0.1202	24	0.0500	0.99	15	rsd
Pyrene	1.1916	1.2666	1.2891	1.3442	1.3054	1.2232	1.1240	AVRG	R		0.800537		ng	1.2492	6	0.0500	0.99	15	
Butylbenzylphthalate		0.4960	0.5000	0.5304	0.5251	0.5011	0.4759	AVRG	R		1.981130		ng	0.5048	4	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.4455	0.4457	0.4845	0.4942	0.4843	0.4596	AVRG	R		2.132342		ng	0.4690	5	0.0500	0.99	15	
Benzo(a)anthracene	1.2592	1.2509	1.2440	1.2960	1.3123	1.3214	1.2571	AVRG	R		0.782915		ng	1.2773	2	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.7302	0.7479	0.7785	0.7713	0.7194	0.6613	AVRG	R		1.361014		ng	0.7347	6	0.0500	0.99	15	
Chrysene	1.0553	1.1132	1.1377	1.2158	1.2198	1.2025	1.1449	AVRG	R		0.865358		ng	1.1556	5	0.0500	0.99	15	
Di-n-octylphthalate		1.3375	1.3347	1.4436	1.4785	1.4623	1.4300	AVRG	R		0.706999		ng	1.4144	4	0.0500	0.99	15	
Benzo(b)fluoranthene	1.2800m	1.3799m	1.3731m	1.6430	1.8431			AVRG	R		0.664974		ng	1.5038	15	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3715	1.4022	1.4316	1.3600	1.2881	1.0775	0.9970m	AVRG	R		0.784060		ng	1.2754	13	0.0500	0.99	15	
Benzo(a)pyrene	1.1905	1.2462	1.2444	1.3169	1.3472	1.3521	1.3353	AVRG	R		0.774969		ng	1.2904	5	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.3637	1.4575	1.4526	1.4330	1.3926	1.3112	1.2333m	AVRG	R		0.725851		ng	1.3777	6	0.0500	0.99	15	
Dibenz(a,h)anthracene	1.0789	1.1622	1.1566	1.1679	1.1513	1.0964	1.0456	AVRG	R		0.890707		ng	1.1227	4	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.1048	1.1891	1.1731	1.1059	1.0520	0.9541	0.8939	AVRG	R		0.936727		ng	1.0675	10	0.0500	0.99	15	
2-Fluorophenol		1.0661	1.0698	1.0979	1.1112	1.1312	1.1208	AVRG	R		0.909503		ng	1.0995	2	0.0500	0.99	15	
Phenol-d5		1.2627	1.2718	1.3343	1.3627	1.3643	1.3195	AVRG	R		0.758013		ng	1.3192	3	0.0500	0.99	15	
Nitrobenzene-d5		0.2923	0.2891	0.2924	0.2969	0.2959	0.2872	AVRG	R		3.421329		ng	0.2923	1	0.0500	0.99	15	
2-Fluorobiphenyl		1.2486	1.2140	1.2872	1.3111	1.2196	1.0575	AVRG	R		0.817663		ng	1.2230	7	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2518	0.2653	0.3044	0.3307	0.3321	0.3146	AVRG	R		3.335325		ng	0.2998	11	0.0500	0.99	15	
Terphenyl-d14		1.0364	1.0575	1.1113	1.0916	1.0369	0.9476	AVRG	R		0.955217		ng	1.0469	5	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA05 Calname : 6PTBNA5
Calnum : 544403805004 Caldate : 06-OCT-2004 Caltype :

ICV 544403805011 (xj611) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodimethylamine	P	544403805011	06-OCT-2004	80.000	81.477	ng	2	30	
Pyridine	P	544403805011	06-OCT-2004	80.000	91.904	ng	15	30	
Phenol	P	544403805011	06-OCT-2004	80.000	81.854	ng	2	20	
Aniline	P	544403805011	06-OCT-2004	80.000	75.850	ng	-5	30	
bis(2-Chloroethyl)ether	P	544403805011	06-OCT-2004	80.000	84.232	ng	5	30	
2-Chlorophenol	P	544403805011	06-OCT-2004	80.000	82.675	ng	3	30	
1,3-Dichlorobenzene	P	544403805011	06-OCT-2004	80.000	85.610	ng	7	30	
1,4-Dichlorobenzene	P	544403805011	06-OCT-2004	80.000	83.157	ng	4	20	
Benzyl alcohol	P	544403805011	06-OCT-2004	80.000	89.205	ng	12	30	
1,2-Dichlorobenzene	P	544403805011	06-OCT-2004	80.000	83.453	ng	4	30	
2-Methylphenol	P	544403805011	06-OCT-2004	80.000	78.750	ng	-2	30	
bis(2-Chloroisopropyl) ether	P	544403805011	06-OCT-2004	80.000	78.878	ng	-1	30	
4-Methylphenol	P	544403805011	06-OCT-2004	80.000	84.824	ng	6	30	
N-Nitroso-di-n-propylamine	P	544403805011	06-OCT-2004	80.000	85.055	ng	6	30	
Hexachloroethane	P	544403805011	06-OCT-2004	80.000	87.830	ng	10	30	
Nitrobenzene	P	544403805011	06-OCT-2004	80.000	82.707	ng	3	30	
Isophorone	P	544403805011	06-OCT-2004	80.000	86.484	ng	8	30	
2-Nitrophenol	P	544403805011	06-OCT-2004	80.000	87.185	ng	9	20	
2,4-Dimethylphenol	P	544403805011	06-OCT-2004	80.000	85.631	ng	7	30	
bis(2-Chloroethoxy)methane	P	544403805011	06-OCT-2004	80.000	81.612	ng	2	30	
Benzoic acid	P	544403805011	06-OCT-2004	80.000	114.36	ng	**43**	40	v+ ***
2,4-Dichlorophenol	P	544403805011	06-OCT-2004	80.000	85.440	ng	7	20	
1,2,4-Trichlorobenzene	P	544403805011	06-OCT-2004	80.000	85.818	ng	7	30	
Naphthalene	P	544403805011	06-OCT-2004	80.000	88.096	ng	10	30	
4-Chloroaniline	P	544403805011	06-OCT-2004	80.000	83.186	ng	4	30	
Hexachlorobutadiene	P	544403805011	06-OCT-2004	80.000	85.073	ng	6	20	
4-Chloro-3-methylphenol	P	544403805011	06-OCT-2004	80.000	88.365	ng	10	20	
2-Methylnaphthalene	P	544403805011	06-OCT-2004	80.000	88.672	ng	11	30	
Hexachlorocyclopentadiene	P	544403805011	06-OCT-2004	80.000	98.369	ng	23	40	
2,4,6-Trichlorophenol	P	544403805011	06-OCT-2004	80.000	87.794	ng	10	20	
2,4,5-Trichlorophenol	P	544403805011	06-OCT-2004	80.000	92.981	ng	16	30	
2-Chloronaphthalene	P	544403805011	06-OCT-2004	80.000	89.970	ng	12	30	
2-Nitroaniline	P	544403805011	06-OCT-2004	80.000	83.894	ng	5	30	
Dimethylphthalate	P	544403805011	06-OCT-2004	80.000	85.508	ng	7	30	
2,6-Dinitrotoluene	P	544403805011	06-OCT-2004	80.000	89.081	ng	11	30	
Acenaphthylene	P	544403805011	06-OCT-2004	80.000	89.234	ng	12	30	
3-Nitroaniline	P	544403805011	06-OCT-2004	80.000	84.052	ng	5	30	
Acenaphthene	P	544403805011	06-OCT-2004	80.000	89.873	ng	12	20	
2,4-Dinitrophenol	P	544403805011	06-OCT-2004	80.000	86.995	ng	9	40	
4-Nitrophenol	P	544403805011	06-OCT-2004	80.000	102.51	ng	28	40	
Dibenzofuran	P	544403805011	06-OCT-2004	80.000	87.548	ng	9	30	
2,4-Dinitrotoluene	P	544403805011	06-OCT-2004	80.000	86.864	ng	9	30	
Diethylphthalate	P	544403805011	06-OCT-2004	80.000	87.254	ng	9	30	
Fluorene	P	544403805011	06-OCT-2004	80.000	88.707	ng	11	30	
4-Chlorophenyl-phenylether	P	544403805011	06-OCT-2004	80.000	88.595	ng	11	40	
4-Nitroaniline	P	544403805011	06-OCT-2004	80.000	64.096	ng	-20	30	
4,6-Dinitro-2-methylphenol	P	544403805011	06-OCT-2004	80.000	103.48	ng	**29**	30	!v+

!=warning +=high bias -=low bias v=ICV

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA05 Calname : 6PTBNA5
Calnum : 544403805004 Caldate : 06-OCT-2004 Caltype :

ICV 544403805011 (xj611) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodiphenylamine	P	544403805011	06-OCT-2004	80.000	92.166	ng	15	20	
Azobenzene	P	544403805011	06-OCT-2004	80.000	88.824	ng	11	30	
4-Bromophenyl-phenylether	P	544403805011	06-OCT-2004	80.000	86.789	ng	8	30	
Hexachlorobenzene	P	544403805011	06-OCT-2004	80.000	86.513	ng	8	30	
Pentachlorophenol	P	544403805011	06-OCT-2004	80.000	93.824	ng	17	20	
Phenanthrene	P	544403805011	06-OCT-2004	80.000	89.144	ng	11	30	
Anthracene	P	544403805011	06-OCT-2004	80.000	85.387	ng	7	30	
Carbazole	P	544403805011	06-OCT-2004	80.000	60.669	ng	-24	30	!v-
Di-n-butylphthalate	P	544403805011	06-OCT-2004	80.000	80.182	ng	0	30	
Fluoranthene	P	544403805011	06-OCT-2004	80.000	86.406	ng	8	20	
Benzidine	P	544403805011	06-OCT-2004	80.000	22.862	ng	-71	40	v- ***
Pyrene	P	544403805011	06-OCT-2004	80.000	85.835	ng	7	30	
Butylbenzylphthalate	P	544403805011	06-OCT-2004	80.000	84.248	ng	5	30	
3,3'-Dichlorobenzidine	P	544403805011	06-OCT-2004	80.000	76.976	ng	-4	40	
Benzo(a)anthracene	P	544403805011	06-OCT-2004	80.000	85.765	ng	7	30	
bis(2-Ethylhexyl)phthalate	P	544403805011	06-OCT-2004	80.000	84.740	ng	6	30	
Chrysene	P	544403805011	06-OCT-2004	80.000	87.518	ng	9	30	
Di-n-octylphthalate	P	544403805011	06-OCT-2004	80.000	86.411	ng	8	20	
Benzo(b)fluoranthene	P	544403805011	06-OCT-2004	80.000	104.62	ng	31	30	v+ ***
Benzo(k)fluoranthene	P	544403805011	06-OCT-2004	80.000	85.394	ng	7	30	
Benzo(a)pyrene	P	544403805011	06-OCT-2004	80.000	90.670	ng	13	20	
Indeno(1,2,3-cd)pyrene	P	544403805011	06-OCT-2004	80.000	84.639	ng	6	30	
Dibenz(a,h)anthracene	P	544403805011	06-OCT-2004	80.000	89.799	ng	12	30	
Benzo(g,h,i)perylene	P	544403805011	06-OCT-2004	80.000	81.361	ng	2	30	
2-Fluorophenol	P	544403805011	06-OCT-2004	80.000	81.812	ng	2	30	
Phenol-d5	P	544403805011	06-OCT-2004	80.000	82.691	ng	3	30	
Nitrobenzene-d5	P	544403805011	06-OCT-2004	80.000	83.114	ng	4	30	
2-Fluorobiphenyl	P	544403805011	06-OCT-2004	80.000	89.292	ng	12	30	
2,4,6-Tribromophenol	P	544403805011	06-OCT-2004	80.000	88.722	ng	11	30	
Terphenyl-d14	P	544403805011	06-OCT-2004	80.000	82.323	ng	3	30	

!=warning +=high bias -=low bias v=ICV
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544409748002
Calnum : 544403805004
Standards: 04WS1859

Run Name :
Filename : xja02
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 10-OCT-2004 13:27
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.3966	0.4277	50.00000	53.92110	ng	8	30	0.0500	
Pyridine	1.0374	1.1583	50.00000	55.82560	ng	12	30	0.0500	
Phenol	1.3821	1.4016	50.00000	50.70480	ng	1	20	0.0500	
Aniline	0.4984	0.5130	50.00000	51.47030	ng	3	30	0.0500	
bis(2-Chloroethyl)ether	0.7358	0.7762	50.00000	52.74560	ng	5	30	0.0500	
2-Chlorophenol	1.2109	1.2397	50.00000	51.19300	ng	2	30	0.0500	
1,3-Dichlorobenzene	1.4954	1.5202	50.00000	50.82800	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.4780	1.5186	50.00000	51.37160	ng	3	20	0.0500	
Benzyl alcohol	0.6893	0.7335	50.00000	53.20820	ng	6	30	0.0500	
1,2-Dichlorobenzene	1.3952	1.4339	50.00000	51.38800	ng	3	30	0.0500	
2-Methylphenol	0.8188	0.8401	50.00000	51.30070	ng	3	30	0.0500	
bis(2-Chloroisopropyl) ether	1.4638	1.5660	50.00000	53.49100	ng	7	30	0.0500	
4-Methylphenol	1.2743	1.3332	50.00000	52.31370	ng	5	30	0.0500	
N-Nitroso-di-n-propylamine	0.5594	0.5894	50.00000	52.68360	ng	5	30	0.0500	
Hexachloroethane	0.5035	0.5330	50.00000	52.92760	ng	6	30	0.0500	
Nitrobenzene	0.2817	0.2879	50.00000	51.10730	ng	2	30	0.0500	
Isophorone	0.5238	0.5373	50.00000	51.28880	ng	3	30	0.0500	
2-Nitrophenol	0.1937	0.1962	50.00000	50.64800	ng	1	20	0.0500	
2,4-Dimethylphenol	0.2687	0.2687	50.00000	49.99540	ng	0	30	0.0500	
bis(2-Chloroethoxy)methane	0.3658	0.3836	50.00000	52.44380	ng	5	30	0.0500	
Benzoic acid	0.1467	0.1528	50.00000	47.88080	ng	-4	40	0.0500	
2,4-Dichlorophenol	0.3204	0.3289	50.00000	51.31630	ng	3	20	0.0500	
1,2,4-Trichlorobenzene	0.3927	0.3944	50.00000	50.22230	ng	0	30	0.0500	
Naphthalene	0.9438	0.9881	50.00000	52.34600	ng	5	30	0.0500	
4-Chloroaniline	0.3918	0.3984	50.00000	50.84730	ng	2	30	0.0500	
Hexachlorobutadiene	0.2575	0.2665	50.00000	51.74000	ng	3	20	0.0500	
4-Chloro-3-methylphenol	0.2535	0.2683	50.00000	52.91000	ng	6	20	0.0500	
2-Methylnaphthalene	0.7269	0.7587	50.00000	52.18800	ng	4	30	0.0500	
Hexachlorocyclopentadiene	0.3263	0.3813	50.00000	58.43910	ng	17	40	0.0500	
2,4,6-Trichlorophenol	0.4161	0.4212	50.00000	50.60740	ng	1	20	0.0500	
2,4,5-Trichlorophenol	0.4116	0.4303	50.00000	52.27200	ng	5	30	0.0500	
2-Chloronaphthalene	1.0410	1.0790	50.00000	51.82240	ng	4	30	0.0500	
2-Nitroaniline	0.2140	0.2275	50.00000	53.15200	ng	6	30	0.0500	
Dimethylphthalate	1.2601	1.2955	50.00000	51.40380	ng	3	30	0.0500	
2,6-Dinitrotoluene	0.3045	0.3027	50.00000	49.70400	ng	-1	30	0.0500	
Acenaphthylene	1.6351	1.7275	50.00000	52.82610	ng	6	30	0.0500	
3-Nitroaniline	0.2890	0.2963	50.00000	51.26390	ng	3	30	0.0500	
Acenaphthene	1.0054	1.0401	50.00000	51.72330	ng	3	20	0.0500	
2,4-Dinitrophenol	0.1763	0.1874	50.00000	49.82980	ng	0	40	0.0500	
4-Nitrophenol	0.0974	0.1039	50.00000	53.34690	ng	7	40	0.0500	
Dibenzofuran	1.5535	1.6058	50.00000	51.68460	ng	3	30	0.0500	
2,4-Dinitrotoluene	0.3914	0.3951	50.00000	50.47830	ng	1	30	0.0500	
Diethylphthalate	1.1699	1.2707	50.00000	54.30660	ng	9	30	0.0500	
Fluorene	1.2625	1.3182	50.00000	52.20610	ng	4	30	0.0500	
4-Chlorophenyl-phenylether	0.6895	0.7228	50.00000	52.41760	ng	5	40	0.0500	
4-Nitroaniline	0.2534	0.2466	50.00000	48.64740	ng	-3	30	0.0500	

!=calc err rsd=ICAL %RSD failure

31 10/11/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05 Run Name : IDF : 1.0
Seqnum : 544409748002 Filename : xja02 Injected : 10-OCT-2004 13:27
Calnum : 544403805004 Caldate : 06-OCT-2004 Caltype :
Standards: 04WS1859

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1259	0.1369	50.00000	54.39180	ng	9	30	0.0500	
N-Nitrosodiphenylamine	0.4382	0.4390	50.00000	50.08990	ng	0	20	0.0500	
Azobenzene	0.4479	0.4575	50.00000	51.07090	ng	2	30	0.0500	
4-Bromophenyl-phenylether	0.2567	0.2581	50.00000	50.28070	ng	1	30	0.0500	
Hexachlorobenzene	0.2852	0.2982	50.00000	52.27220	ng	5	30	0.0500	
Pentachlorophenol	0.1830	0.1877	50.00000	51.28220	ng	3	20	0.0500	
Phenanthrene	0.9542	0.9935	50.00000	52.05630	ng	4	30	0.0500	
Anthracene	0.9875	1.0442	50.00000	52.87560	ng	6	30	0.0500	
Carbazole	0.7812	0.7240	50.00000	46.33840	ng	-7	30	0.0500	
Di-n-butylphthalate	1.1073	1.1720	50.00000	52.92280	ng	6	30	0.0500	
Fluoranthene	1.2253	1.2930	50.00000	52.76350	ng	6	20	0.0500	
Benzidine	0.1202	0.1196	50.00000	47.35810	ng	-5	40	0.0500	! rsd
Pyrene	1.2492	1.3091	50.00000	52.40020	ng	5	30	0.0500	
Butylbenzylphthalate	0.5048	0.5213	50.00000	51.63940	ng	3	30	0.0500	
3,3'-Dichlorobenzidine	0.4690	0.4520	50.00000	48.19340	ng	-4	40	0.0500	
Benzo(a)anthracene	1.2773	1.2801	50.00000	50.10960	ng	0	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.7347	0.7523	50.00000	51.19110	ng	2	30	0.0500	
Chrysene	1.1556	1.2032	50.00000	52.06050	ng	4	30	0.0500	
Di-n-octylphthalate	1.4144	1.3916	50.00000	49.19280	ng	-2	20	0.0500	
Benzo(b)fluoranthene	1.5038	1.6212	50.00000	53.90130	ng	8	30	0.0500	
Benzo(k)fluoranthene	1.2754	1.3090	50.00000	51.31600	ng	3	30	0.0500	
Benzo(a)pyrene	1.2904	1.2932	50.00000	50.10780	ng	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.3777	1.4685	50.00000	53.29510	ng	7	30	0.0500	
Dibenz(a,h)anthracene	1.1227	1.1737	50.00000	52.26950	ng	5	30	0.0500	
Benzo(g,h,i)perylene	1.0675	1.1681	50.00000	54.71040	ng	9	30	0.0500	
2-Fluorophenol	1.0995	1.1414	50.00000	51.90320	ng	4	30	0.0500	
Phenol-d5	1.3192	1.3549	50.00000	51.35320	ng	3	30	0.0500	
Nitrobenzene-d5	0.2923	0.3018	50.00000	51.62490	ng	3	30	0.0500	
2-Fluorobiphenyl	1.2230	1.2851	50.00000	52.53780	ng	5	30	0.0500	
2,4,6-Tribromophenol	0.2998	0.3164	50.00000	52.76130	ng	6	30	0.0500	
Terphenyl-d14	1.0469	1.0414	50.00000	49.73820	ng	-1	30	0.0500	

10/11/04

!=calc err rsd=ICAL %RSD failure
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544412502002
Calnum : 544403805004
Standards: 04WS1859

Run Name :
Filename : xjc02
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 12-OCT-2004 11:21
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.3966	0.4740	50.00000	59.75750	ng	20	30	0.0500	
Pyridine	1.0374	1.3797	50.00000	66.49750	ng	33	30	0.0500	c+ ***
Phenol	1.3821	1.6492	50.00000	59.66510	ng	19	20	0.0500	
Aniline	0.4984	0.6851	50.00000	68.73250	ng	37	30	0.0500	c+ ***
bis(2-Chloroethyl)ether	0.7358	1.0582	50.00000	71.91080	ng	44	30	0.0500	c+ ***
2-Chlorophenol	1.2109	1.3541	50.00000	55.91610	ng	12	30	0.0500	
1,3-Dichlorobenzene	1.4954	1.5492	50.00000	51.79820	ng	4	30	0.0500	
1,4-Dichlorobenzene	1.4780	1.5112	50.00000	51.12250	ng	2	20	0.0500	
Benzyl alcohol	0.6893	0.7318	50.00000	53.08350	ng	6	30	0.0500	
1,2-Dichlorobenzene	1.3952	1.4377	50.00000	51.52440	ng	3	30	0.0500	
2-Methylphenol	0.8188	0.9528	50.00000	58.18330	ng	16	30	0.0500	
bis(2-Chloroisopropyl) ether	1.4638	1.9276	50.00000	65.84400	ng	32	30	0.0500	c+ ***
4-Methylphenol	1.2743	1.4795	50.00000	58.05280	ng	16	30	0.0500	
N-Nitroso-di-n-propylamine	0.5594	0.7025	50.00000	62.79670	ng	26	30	0.0500	!c+
Hexachloroethane	0.5035	0.5660	50.00000	56.20010	ng	12	30	0.0500	
Nitrobenzene	0.2817	0.3330	50.00000	59.11090	ng	18	30	0.0500	
Isophorone	0.5238	0.6320	50.00000	60.33310	ng	21	30	0.0500	!c+
2-Nitrophenol	0.1937	0.2001	50.00000	51.65140	ng	3	20	0.0500	
2,4-Dimethylphenol	0.2687	0.2765	50.00000	51.45780	ng	3	30	0.0500	
bis(2-Chloroethoxy)methane	0.3658	0.4304	50.00000	58.83610	ng	18	30	0.0500	
Benzoic acid	0.1467	0.0875	50.00000	31.04590	ng	-38	40	0.0500	!c-
2,4-Dichlorophenol	0.3204	0.3158	50.00000	49.27540	ng	-1	20	0.0500	
1,2,4-Trichlorobenzene	0.3927	0.3617	50.00000	46.05200	ng	-8	30	0.0500	
Naphthalene	0.9438	1.0471	50.00000	55.47060	ng	11	30	0.0500	
4-Chloroaniline	0.3918	0.4124	50.00000	52.62310	ng	5	30	0.0500	
Hexachlorobutadiene	0.2575	0.2117	50.00000	41.10760	ng	-18	20	0.0500	
4-Chloro-3-methylphenol	0.2535	0.2798	50.00000	55.18200	ng	10	20	0.0500	
2-Methylnaphthalene	0.7269	0.7362	50.00000	50.63640	ng	1	30	0.0500	
Hexachlorocyclopentadiene	0.3263	0.3189	50.00000	48.87260	ng	-2	40	0.0500	
2,4,6-Trichlorophenol	0.4161	0.3928	50.00000	47.19770	ng	-6	20	0.0500	
2,4,5-Trichlorophenol	0.4116	0.3959	50.00000	48.09210	ng	-4	30	0.0500	
2-Chloronaphthalene	1.0410	1.1257	50.00000	54.06580	ng	8	30	0.0500	
2-Nitroaniline	0.2140	0.3202	50.00000	74.80750	ng	50	30	0.0500	c+ ***
Dimethylphthalate	1.2601	1.3844	50.00000	54.93490	ng	10	30	0.0500	
2,6-Dinitrotoluene	0.3045	0.3134	50.00000	51.46210	ng	3	30	0.0500	
Acenaphthylene	1.6351	1.8189	50.00000	55.62340	ng	11	30	0.0500	
3-Nitroaniline	0.2890	0.3185	50.00000	55.10710	ng	10	30	0.0500	
Acenaphthene	1.0054	1.1037	50.00000	54.88940	ng	10	20	0.0500	
2,4-Dinitrophenol	0.1763	0.1762	50.00000	47.31570	ng	-5	40	0.0500	
4-Nitrophenol	0.0974	0.0973	50.00000	49.94600	ng	0	40	0.0500	
Dibenzofuran	1.5535	1.6528	50.00000	53.19770	ng	6	30	0.0500	
2,4-Dinitrotoluene	0.3914	0.4055	50.00000	51.81090	ng	4	30	0.0500	
Diethylphthalate	1.1699	1.2813	50.00000	54.76000	ng	10	30	0.0500	
Fluorene	1.2625	1.3577	50.00000	53.77150	ng	8	30	0.0500	
4-Chlorophenyl-phenylether	0.6895	0.6830	50.00000	49.52730	ng	-1	40	0.0500	
4-Nitroaniline	0.2534	0.2957	50.00000	58.33580	ng	17	30	0.0500	

!=warning +=high bias -=low bias c=CCV rsd=ICAL %RSD failure

10/13/04

10/13/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544412502002
Calnum : 544403805004
Standards: 04WS1859

Run Name :
Filename : xjc02
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 12-OCT-2004 11:21
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1259	0.1292	50.00000	51.33300	ng	3	30	0.0500	
N-Nitrosodiphenylamine	0.4382	0.4878	50.00000	55.65550	ng	11	20	0.0500	
Azobenzene	0.4479	0.6173	50.00000	68.91230	ng	38	30	0.0500	c+ ***
4-Bromophenyl-phenylether	0.2567	0.2425	50.00000	47.24930	ng	-6	30	0.0500	
Hexachlorobenzene	0.2852	0.2736	50.00000	47.96020	ng	-4	30	0.0500	
Pentachlorophenol	0.1830	0.1501	50.00000	40.99090	ng	-18	20	0.0500	
Phenanthrene	0.9542	1.0946	50.00000	57.35730	ng	15	30	0.0500	
Anthracene	0.9875	1.0942	50.00000	55.40530	ng	11	30	0.0500	
Carbazole	0.7812	0.8425	50.00000	53.92370	ng	8	30	0.0500	
Di-n-butylphthalate	1.1073	1.2657	50.00000	57.15510	ng	14	30	0.0500	
Fluoranthene	1.2253	1.3063	50.00000	53.30450	ng	7	20	0.0500	
Benzidine	0.1202	0.1017	50.00000	40.24400	ng	-20	40	0.0500	! rsd *
Pyrene	1.2492	1.4410	50.00000	57.68010	ng	15	30	0.0500	
Butylbenzylphthalate	0.5048	0.5964	50.00000	59.07930	ng	18	30	0.0500	
3,3'-Dichlorobenzidine	0.4690	0.4541	50.00000	48.41010	ng	-3	40	0.0500	
Benzo(a)anthracene	1.2773	1.2886	50.00000	50.44310	ng	1	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.7347	0.8554	50.00000	58.20930	ng	16	30	0.0500	
Chrysene	1.1556	1.2155	50.00000	52.59040	ng	5	30	0.0500	
Di-n-octylphthalate	1.4144	1.5000	50.00000	53.02570	ng	6	20	0.0500	
Benzo(b)fluoranthene	1.5038	1.6470	50.00000	54.76100	ng	10	30	0.0500	
Benzo(k)fluoranthene	1.2754	1.3031	50.00000	51.08400	ng	2	30	0.0500	
Benzo(a)pyrene	1.2904	1.2875	50.00000	49.88790	ng	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.3777	1.3845	50.00000	50.24730	ng	0	30	0.0500	
Dibenz(a,h)anthracene	1.1227	1.1114	50.00000	49.49500	ng	-1	30	0.0500	
Benzo(g,h,i)perylene	1.0675	1.0929	50.00000	51.18780	ng	2	30	0.0500	
2-Fluorophenol	1.0995	1.2916	50.00000	58.73450	ng	17	30	0.0500	
Phenol-d5	1.3192	1.6450	50.00000	62.34610	ng	25	30	0.0500	!c+
Nitrobenzene-d5	0.2923	0.3518	50.00000	60.18550	ng	20	30	0.0500	
2-Fluorobiphenyl	1.2230	1.3180	50.00000	53.88230	ng	8	30	0.0500	
2,4,6-Tribromophenol	0.2998	0.2587	50.00000	43.13680	ng	-14	30	0.0500	
Terphenyl-d14	1.0469	1.0886	50.00000	51.99220	ng	4	30	0.0500	

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10/13/04

!=warning +=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : IDF : 1.0
Seqnum : 534413911002 Filename : wjd02 Injected : 13-OCT-2004 10:50
Calnum : 534400909001 Caldate : 04-OCT-2004 Caltype :
Standards: 04WS1859

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.4420	0.4009	50.00000	45.35610	ng	-9	30	0.0500	m
Pyridine	0.7626	0.6749	50.00000	44.24580	ng	-12	30	0.0500	m
Phenol	1.2773	1.1962	50.00000	46.82550	ng	-6	20	0.0500	
Aniline	1.3889	0.0510	50.00000	1.834800	ng	-96	30	0.0500	c-
bis(2-Chloroethyl)ether	0.8338	0.8983	50.00000	51.86960	ng	4	30	0.0500	m
2-Chlorophenol	1.2306	1.2156	50.00000	49.39140	ng	-1	30	0.0500	
1,3-Dichlorobenzene	1.4123	1.3808	50.00000	48.88370	ng	-2	30	0.0500	
1,4-Dichlorobenzene	1.4612	1.4963	50.00000	51.20140	ng	2	20	0.0500	
Benzyl alcohol	0.6629	0.6265	50.00000	47.25470	ng	-5	30	0.0500	
1,2-Dichlorobenzene	1.3378	1.3690	50.00000	51.16500	ng	2	30	0.0500	
2-Methylphenol	0.8181	0.7831	50.00000	47.85700	ng	-4	30	0.0500	
bis(2-Chloroisopropyl) ether	1.6145	1.6735	50.00000	51.82610	ng	4	30	0.0500	
4-Methylphenol	1.2263	1.2642	50.00000	51.54370	ng	3	30	0.0500	
N-Nitroso-di-n-propylamine	0.6297	0.6957	50.00000	55.24590	ng	10	30	0.0500	m
Hexachloroethane	0.6552	0.6571	50.00000	50.14480	ng	0	30	0.0500	
Nitrobenzene	0.3480	0.3470	50.00000	49.86100	ng	0	30	0.0500	
Isophorone	0.6641	0.6193	50.00000	46.63230	ng	-7	30	0.0500	
2-Nitrophenol	0.2317	0.2136	50.00000	46.08880	ng	-8	20	0.0500	
2,4-Dimethylphenol	0.2815	0.2462	50.00000	43.72440	ng	-13	30	0.0500	
bis(2-Chloroethoxy)methane	0.3856	0.3570	50.00000	46.29240	ng	-7	30	0.0500	
Benzoic acid	0.1686	0.1307	50.00000	39.02550	ng	-22	40	0.0500	
2,4-Dichlorophenol	0.3617	0.3455	50.00000	47.76480	ng	-4	20	0.0500	
1,2,4-Trichlorobenzene	0.4277	0.4017	50.00000	46.95260	ng	-6	30	0.0500	
Naphthalene	1.0782	1.1202	50.00000	51.94510	ng	4	30	0.0500	
4-Chloroaniline	0.4348	0.4080	50.00000	46.91670	ng	-6	30	0.0500	
Hexachlorobutadiene	0.3051	0.3091	50.00000	50.64710	ng	1	20	0.0500	
4-Chloro-3-methylphenol	0.3436	0.3174	50.00000	46.18600	ng	-8	20	0.0500	
2-Methylnaphthalene	0.7824	0.7614	50.00000	48.65600	ng	-3	30	0.0500	
Hexachlorocyclopentadiene	0.2972	0.3071	50.00000	50.82300	ng	2	40	0.0500	
2,4,6-Trichlorophenol	0.4709	0.4065	50.00000	43.16020	ng	-14	20	0.0500	
2,4,5-Trichlorophenol	0.4733	0.3959	50.00000	41.81750	ng	-16	30	0.0500	
2-Chloronaphthalene	1.1359	1.0727	50.00000	47.22020	ng	-6	30	0.0500	
2-Nitroaniline	0.3312	0.3166	50.00000	47.78850	ng	-4	30	0.0500	
Dimethylphthalate	1.5795	1.4540	50.00000	46.02710	ng	-8	30	0.0500	
2,6-Dinitrotoluene	0.3714	0.3810	50.00000	51.29760	ng	3	30	0.0500	
Acenaphthylene	1.8382	1.8890	50.00000	51.38180	ng	3	30	0.0500	
3-Nitroaniline	0.2886	0.3159	50.00000	54.72510	ng	9	30	0.0500	
Acenaphthene	1.0675	1.0173	50.00000	47.64730	ng	-5	20	0.0500	
2,4-Dinitrophenol	0.2208	0.1846	50.00000	40.97640	ng	-18	40	0.0500	
4-Nitrophenol	0.2258	0.1985	50.00000	43.95770	ng	-12	40	0.0500	
Dibenzofuran	1.6796	1.5314	50.00000	45.59060	ng	-9	30	0.0500	
2,4-Dinitrotoluene	0.4730	0.4403	50.00000	46.54850	ng	-7	30	0.0500	
Diethylphthalate	1.6294	1.5214	50.00000	46.68610	ng	-7	30	0.0500	
Fluorene	1.3486	1.2358	50.00000	45.81710	ng	-8	30	0.0500	
4-Chlorophenyl-phenylether	0.8137	0.7721	50.00000	47.44070	ng	-5	40	0.0500	
4-Nitroaniline	0.2355	0.2264	50.00000	48.05670	ng	-4	30	0.0500	

-=low bias c=CCV m=manual integration rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : IDF : 1.0
Seqnum : 534413911002 Filename : wjd02 Injected : 13-OCT-2004 10:50
Calnum : 534400909001 Caldate : 04-OCT-2004 Caltype :
Standards: 04WS1859

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1710	0.1681	50.00000	49.17260	ng	-2	30	0.0500	
N-Nitrosodiphenylamine	0.5349	0.4954	50.00000	46.30460	ng	-7	20	0.0500	
Azobenzene	0.7463	0.7751	50.00000	51.93030	ng	4	30	0.0500	
4-Bromophenyl-phenylether	0.2700	0.2688	50.00000	49.77290	ng	0	30	0.0500	
Hexachlorobenzene	0.3158	0.3243	50.00000	51.35320	ng	3	30	0.0500	
Pentachlorophenol	0.1947	0.1858	50.00000	47.71160	ng	-5	20	0.0500	
Phenanthrene	1.0889	1.1530	50.00000	52.94160	ng	6	30	0.0500	
Anthracene	1.0766	1.1691	50.00000	54.29550	ng	9	30	0.0500	
Carbazole	0.7652	0.7909	50.00000	51.67870	ng	3	30	0.0500	
Di-n-butylphthalate	1.6269	1.7630	50.00000	54.18300	ng	8	30	0.0500	
Fluoranthene	1.2435	1.2351	50.00000	49.66270	ng	-1	20	0.0500	
Benzidine	0.1251	0.0692	50.00000	27.66690	ng	-45	40	0.0500	c- rsd
Pyrene	1.4178	1.2224	50.00000	43.10730	ng	-14	30	0.0500	
Butylbenzylphthalate	0.7815	0.6799	50.00000	43.49980	ng	-13	30	0.0500	
3,3'-Dichlorobenzidine	0.4102	0.4577	50.00000	55.79540	ng	12	40	0.0500	
Benzo(a)anthracene	1.2607	1.2142	50.00000	48.15490	ng	-4	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.1503	1.0374	50.00000	45.09330	ng	-10	30	0.0500	
Chrysene	1.1928	1.1426	50.00000	47.89320	ng	-4	30	0.0500	
Di-n-octylphthalate	2.4800	2.1929	50.00000	44.21120	ng	-12	20	0.0500	
Benzo(b)fluoranthene	1.7394	1.7343	50.00000	50.80960	ng	2	30	0.0500	m
Benzo(k)fluoranthene	1.3848	1.3879	50.00000	50.11160	ng	0	30	0.0500	
Benzo(a)pyrene	1.2572	1.2295	50.00000	48.89960	ng	-2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2144	1.3358	50.00000	55.00090	ng	10	30	0.0500	m
Dibenz(a,h)anthracene	0.9846	1.0918	50.00000	55.44170	ng	11	30	0.0500	m
Benzo(g,h,i)perylene	0.9543	1.0600	50.00000	55.53800	ng	11	30	0.0500	m
2-Fluorophenol	1.0780	0.9345	50.00000	43.34340	ng	-13	30	0.0500	
Phenol-d5	1.1776	1.1158	50.00000	47.37400	ng	-5	30	0.0500	
Nitrobenzene-d5	0.3784	0.3668	50.00000	48.47750	ng	-3	30	0.0500	
2-Fluorobiphenyl	1.4074	1.3253	50.00000	47.08060	ng	-6	30	0.0500	
2,4,6-Tribromophenol	0.2867	0.2718	50.00000	47.40240	ng	-5	30	0.0500	
Terphenyl-d14	1.0902	1.0764	50.00000	49.36390	ng	-1	30	0.0500	

-=low bias c=CCV m=manual integration rsd=ICAL %RSD failure
Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 10-OCT-2004
Sequence: 544409748 (xja)
Instrument ID: MSBNA05

CCV Filename: xja02
Date Analyzed: 10-OCT-2004
Time Analyzed: 13:27

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	452611	6.54	1629798	8.05	1050319	10.23	2059901	12.06	2085148	15.67	1963729	19.07
LOWER LIMIT	226306	6.04	814899	7.55	525160	9.73	1029951	11.57	1042574	15.17	981865	18.57
UPPER LIMIT	905222	7.04	3259596	8.55	2100638	10.73	4119802	12.57	4170296	16.17	3927458	19.57

TYPE	SAMPLE	#												
CCV		002	452611	6.54	1629798	8.05	1050319	10.23	2059901	12.07	2085148	15.67	1963729	19.07
BLANK	QC267414	004	681456	6.54	2552344	8.04	1711349	10.22	3230065	12.07	3450295	15.67	2843597	19.06
LCS	QC267415	005	691342	6.54	2523116	8.05	1761564	10.23	3558658	12.08	3500447	15.68	2950460	19.08
SAMPLE	175150-001	006	684294	6.54	2567228	8.04	1725850	10.22	3195547	12.07	3333654	15.67	2638415	19.06
SAMPLE	175148-001	007	723596	6.54	2668814	8.04	1807740	10.22	3337645	12.07	3513613	15.67	2727511	19.06
SAMPLE	175148-002	008	715457	6.54	2628873	8.04	1775602	10.22	3337652	12.07	3378199	15.67	2363032	19.07
SAMPLE	175149-001	009	687644	6.54	2539832	8.04	1731531	10.23	3257859	12.07	2569317	15.69	923139*	19.09
MSS	174942-010	010	731128	6.54	2732313	8.04	1811235	10.23	3453311	12.07	3274639	15.67	1738636	19.06
MS	QC267416	011	689164	6.54	2542719	8.05	1768641	10.23	3516239	12.08	3229145	15.68	1790605	19.07
MSD	QC267417	012	680719	6.54	2496109	8.05	1745542	10.23	3465643	12.08	3145371	15.68	1655312	19.07
SAMPLE	174781-008	013	663317	6.54	2389205	8.04	1521507	10.22	2837539	12.07	2815946	15.67	1703890	19.06
SAMPLE	175094-007	014	715980	6.54	2546641	8.04	1623746	10.23	3072005	12.07	3017629	15.67	1760132	19.06
SAMPLE	175069-001	015	666487	6.54	2384972	8.04	1529734	10.22	2909157	12.07	2814072	15.67	1689886	19.05
SAMPLE	175109-001	016	741277	6.54	2601943	8.05	1646987	10.23	3088462	12.08	3112247	15.68	1514735	19.07
MSS	174781-009	017	670091	6.54	2385464	8.04	1542437	10.23	2820268	12.07	2667702	15.68	1289232	19.08
SAMPLE	174781-001	018	718493	6.54	2541223	8.04	1665813	10.23	3044394	12.07	2890578	15.67	1426823	19.07
SAMPLE	175103-003	019	697656	6.54	2528275	8.05	1632384	10.23	3008165	12.07	2914021	15.67	1518053	19.05
SAMPLE	174781-003	020	693489	6.54	2562547	8.04	1587745	10.23	2969547	12.07	2618667	15.67	1092031	19.07
SAMPLE	174781-005	021	671638	6.54	2382250	8.04	1469456	10.23	2779445	12.07	1892178	15.69	603525*	19.09
SAMPLE	174969-004	022	704566	6.54	2606553	8.05	1720170	10.23	3300587	12.07	1893912	15.68	553428*	19.07

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 12-OCT-2004
Sequence: 544412502 (xjc)
Instrument ID: MSBNA05

CCV Filename: xjc02
Date Analyzed: 12-OCT-2004
Time Analyzed: 11:21

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	336562	6.40	1235692	7.91	711732	10.08	1318631	11.91	1210147	15.46	1111262	18.72
LOWER LIMIT	168281	5.90	617846	7.41	355866	9.58	659316	11.41	605074	14.96	555631	18.22
UPPER LIMIT	673124	6.90	2471384	8.41	1423464	10.58	2637262	12.41	2420294	15.96	2222524	19.22

TYPE	SAMPLE	#												
CCV		002	336562	6.40	1235692	7.91	711732	10.08	1318631	11.91	1210147	15.46	1111262	18.72
SAMPLE	174942-003	004	326691	6.40	1181211	7.90	680681	10.08	1156895	11.91	1152621	15.44	1051293	18.69
MSS	174942-010	005	327621	6.40	1176288	7.90	673501	10.07	1147103	11.90	1121028	15.44	1003885	18.69
MSS	174988-008	006	340992	6.40	1216209	7.90	691536	10.08	1178193	11.91	1110238	15.44	978530	18.69
MSS	174988-002	007	321814	6.40	1147620	7.90	640926	10.07	1095440	11.90	1050519	15.44	925929	18.69
SAMPLE	174988-010	008	324552	6.40	1159735	7.90	651055	10.07	1119258	11.90	1082938	15.43	926099	18.68
SAMPLE	174988-005	009	328941	6.40	1169579	7.90	660018	10.07	1145662	11.90	1071760	15.44	857918	18.69
SAMPLE	174988-003	010	303506	6.40	1100952	7.90	626332	10.07	1075871	11.91	1011279	15.43	839666	18.68
SAMPLE	174988-006	011	288603	6.40	1041418	7.90	584002	10.07	1001048	11.90	977410	15.43	778734	18.68
SAMPLE	174988-007	012	296471	6.40	1075888	7.90	602517	10.07	1020118	11.90	964121	15.44	684663	18.69
SAMPLE	174988-009	013	298859	6.40	1070848	7.90	605320	10.07	1026118	11.90	960846	15.43	718211	18.68
SAMPLE	175101-002	014	299225	6.40	1040414	7.90	606353	10.08	1078631	11.91	1020779	15.44	757599	18.68
SAMPLE	175101-004	015	303567	6.40	1058938	7.90	613649	10.07	1101440	11.90	1040255	15.43	775319	18.68
SAMPLE	175100-001	016	297971	6.40	1008939	7.90	606927	10.08	1082288	11.91	991318	15.43	718936	18.68
SAMPLE	175100-003	017	300290	6.40	1081614	7.90	611430	10.07	1081735	11.90	1052225	15.43	771965	18.68
MSS	175104-003	018	321935	6.40	1078588	7.90	641940	10.08	1119607	11.91	721615	15.44	307725*	18.72
SAMPLE	175075-001	019	292356	6.40	1044300	7.90	596350	10.07	1010756	11.91	780542	15.45	231990*	18.73
SAMPLE	175069-002	020	319386	6.40	1137934	7.90	652503	10.08	1107646	11.91	969716	15.44	435001*	18.68

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 13-OCT-2004
Sequence: 534413911 (wjd)
Instrument ID: MSBNA04

CCV Filename: wjd02
Date Analyzed: 13-OCT-2004
Time Analyzed: 10:50

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	219898	5.47	744394	6.93	515724	9.02	813032	10.80	837690	13.98	588648	15.75
LOWER LIMIT	109949	4.97	372197	6.43	257862	8.52	406516	10.30	418845	13.48	294324	15.25
UPPER LIMIT	439796	5.97	1488788	7.43	1031448	9.52	1626064	11.30	1675380	14.48	1177296	16.25

TYPE	SAMPLE	#												
CCV		002	219898	5.47	744394	6.93	515724	9.02	813032	10.80	837690	13.98	588648	15.75
SAMPLE	175141-009	004	224751	5.46	796793	6.92	564130	9.02	982688	10.79	802981	13.98	587340	15.73
SAMPLE	175141-001	005	209295	5.45	769286	6.92	564754	9.02	970469	10.80	791836	13.98	509051	15.74
SAMPLE	175130-001	006	213194	5.45	802968	6.93	563395	9.01	948640	10.79	753925	13.97	532152	15.73
SAMPLE	175130-002	007	242125	5.45	922857	6.93	679880	9.02	1159659	10.80	885307	13.97	607365	15.74
SAMPLE	175130-003	008	240391	5.45	905278	6.92	631627	9.02	1094087	10.80	892776	13.98	617138	15.74
SAMPLE	175130-004	009	246826	5.46	914556	6.92	601863	9.02	1029944	10.80	822354	13.99	419064	15.75
SAMPLE	175130-006	010	269738	5.45	1012307	6.93	721912	9.02	1254071	10.80	950926	13.98	551665	15.74
SAMPLE	175130-007	011	256108	5.46	944455	6.92	636383	9.02	1050161	10.80	823021	13.98	520695	15.74
SAMPLE	175130-008	012	268031	5.45	984964	6.93	712803	9.02	1193158	10.80	839727	13.98	510974	15.74
SAMPLE	175130-009	013	258592	5.46	935317	6.93	674007	9.02	1226123	10.80	827579	13.98	486062	15.74
SAMPLE	175130-010	014	251285	5.46	917638	6.92	646897	9.02	1068451	10.80	784248	13.98	466205	15.74
SAMPLE	174988-016	015	186263	5.46	637858	6.92	392854	9.02	650359	10.80	452351	13.98	235145*	15.75
SAMPLE	175055-001	016	224912	5.47	765638	6.93	500213	9.03	814619	10.82	422764	14.00	123287*	15.76
SAMPLE	174942-009	017	247747	5.46	951743	6.93	657395	9.01	1137260	10.79	826676	13.99	422553	15.74
SAMPLE	174942-007	018	249802	5.46	932850	6.93	655230	9.02	1128677	10.79	754647	13.98	356878	15.74
SAMPLE	174942-011	019	243089	5.46	883334	6.92	600890	9.02	1018508	10.80	704741	13.98	353216	15.74
SAMPLE	174942-008	020	258082	5.46	953691	6.92	634397	9.02	1032997	10.80	705675	13.98	353457	15.74
SAMPLE	174942-006	021	267765	5.46	975914	6.92	635939	9.02	1062203	10.80	644263	14.00	188115*	15.78

* = Outside QC Limits

Initial Cal & CCV Calibration

(1 of 2)

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 534400909 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 04-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	wj401	TUN	NP NL			04-OCT-2004 09:49	1.0	1.0				1	
002	wj402	CCV				04-OCT-2004 10:07	1.0	1.0	7		1	2 cc- cc+	
003	wj403	CCV				04-OCT-2004 11:00	1.0	1.0	6		1	2 cc+	
004	wj404	ICAL	2ug/ml ICAL			04-OCT-2004 11:44	1.0	1.0				3	
005	wj405	ICAL	10ug/ml ICAL			04-OCT-2004 12:18	1.0	1.0				4	
006	wj406	ICAL	20ug/ml ICAL			04-OCT-2004 12:53	1.0	1.0				5	
007	wj407	ICAL	50ug/ml ICAL			04-OCT-2004 13:29	1.0	1.0			1	6	
008	wj408	X	04WS1860 not used			04-OCT-2004 14:04	1.0						
009	wj409	ICAL	120ug/ml ICA			04-OCT-2004 14:38	1.0	1.0				7	
010	wj410	ICAL	160ug/ml ICA			04-OCT-2004 15:14	1.0	1.0				8	
011	wj411	X	X 04WS1724 not used			04-OCT-2004 15:49	1.0						
012	wj412	ICAL	80ug/ml ICAL			04-OCT-2004 17:46	1.0	1.0				9	
013	wj413	ICV	80ug/ml ICV			04-OCT-2004 18:22	1.0	1.0	4		1	10	
014	wj414	TUN	NP NL - not used			04-OCT-2004 23:05	1.0	1.0	1			1 t	
015	wj415	TUN	NP NL			04-OCT-2004 23:16	1.0	1.0				1	
016	wj416	CCV	- not used			04-OCT-2004 23:32	1.0	1.0	3		1	6 cs	
017	wj417	CCV				05-OCT-2004 00:07	1.0	1.0	1		1	6	
018	wj418	BLANK	QC266678	95113	Soil	05-OCT-2004 00:43	1.0	0.03331			1	11	
019	wj419	LCS	QC266679	95113	Soil	05-OCT-2004 01:19	1.0	0.03315	3		1	11	
020	wj420	MSS	174993-001	95113	Soil	05-OCT-2004 01:54	1.0	0.03333			1	11	
021	wj421	MS	QC266680	95113	Soil	05-OCT-2004 02:29	1.0	0.03329	3		1	11	
022	wj422	MSD	QC266681	95113	Soil	05-OCT-2004 03:04	1.0	0.03301	3		1	11	
023	wj423	SAMPLE	175023-002	95113	Soil	05-OCT-2004 03:40	1.0	0.03319		1	1	11	
024	wj424	SAMPLE	175023-003	95113	Soil	05-OCT-2004 04:15	1.0	0.03331		1	1	11	
025	wj425	SAMPLE	175023-001	95113	Soil	05-OCT-2004 04:50	1.0	0.03297		1	1	11	
026	wj426	SAMPLE	175024-001	95113	Soil	05-OCT-2004 05:26	1.0	0.0334			1	11	
027	wj427	SAMPLE	175024-002	95113	Soil	05-OCT-2004 06:01	1.0	0.03324			1	11	
028	wj428	SAMPLE	175024-003	95113	Soil	05-OCT-2004 06:37	1.0	0.03344			1	11	
029	wj429	SAMPLE	174825-003	94978	Soil	05-OCT-2004 07:13	1.0	0.03329			1	11	
030	wj430	SAMPLE	174825-004	94978	Soil	05-OCT-2004 07:49	10.0	0.03361			1	11	

Stds used: 1=04WS1543 2=04WS1379 3=04WS1856 4=04WS1857 5=04WS1858 6=04WS1859 7=04WS1861 8=04WS1862 9=04WS1860 10=04WS1724 11=04S
Flags used: +=high bias -=low bias cc=CCV CCC failure cs=CCV SPCC failure t=tune failure

Analyst: [signature] Date: 10/5/04

ICAL: OK except Benzidine fails %RSD + r^2
CCV: 3-Nitroaniline ↓; 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail ED
- Pyridine ↑ fails warning limits

10/05/04

BNA 8270 Calibration

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

(1 of 2)

Begun: 06-OCT-2004

Sequence: 544403805 Instrument: MSBNA05 HP GCMS BNA 05
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xj601	TUN	DFTPP 50NG			06-OCT-2004 10:05	1.0	1.0				1	
002	xj602	CCV				06-OCT-2004 10:24	1.0	1.0	2		1	2 cc-	
003	xj603	CCV				06-OCT-2004 11:28	1.0	1.0	2		1	2 cc-	
004	xj604	ICAL	2ug/mL			06-OCT-2004 12:18	1.0	1.0				3	
005	xj605	ICAL	10ug/mL			06-OCT-2004 12:56	1.0	1.0				4	
006	xj606	ICAL	20ug/mL			06-OCT-2004 13:33	1.0	1.0				5	
007	xj607	ICAL	50ug/mL			06-OCT-2004 14:11	1.0	1.0				6	
008	xj608	ICAL	80ug/mL			06-OCT-2004 14:48	1.0	1.0				7	
009	xj609	ICAL	120ug/mL			06-OCT-2004 15:25	1.0	1.0				8	
010	xj610	ICAL	160ug/mL			06-OCT-2004 16:01	1.0	1.0				9	
011	xj611	ICV	80ug/mL			06-OCT-2004 16:38	1.0	1.0	3		1	10	1:BZBF=104.620
012	xj612	TUN	NP NL			06-OCT-2004 18:10	1.0	1.0	1			1 t	
013	xj613	TUN	NP NL			06-OCT-2004 18:47	1.0	1.0				1	
014	xj614	CCV				06-OCT-2004 19:04	1.0	1.0	1		1	6	
015	xj615	BLANK	QC266919	95178	Soil	06-OCT-2004 19:43	1.0	0.03315	1		1	11	
016	xj616	LCS	QC266920	95178	Soil	06-OCT-2004 20:20	1.0	0.03352	3		1	11	
017	xj617	MSS	174969-001	95178	Soil	06-OCT-2004 20:58	1.0	0.03333			1	11 spk	
018	xj618	MS	QC266921	95178	Soil	06-OCT-2004 21:36	1.0	0.03321	3		1	11	
019	xj619	MSD	QC266922	95178	Soil	06-OCT-2004 22:13	1.0	0.03332	3		1	11	
020	xj620	SAMPLE	174783-011	95178	Soil	06-OCT-2004 22:50	1.0	0.03323	19		1	11 sh spk	
021	xj621	SAMPLE	174783-012	95178	Soil	06-OCT-2004 23:28	1.0	0.03311	19	1	1	11 sh spk	
022	xj622	SAMPLE	174780-004	95178	Soil	07-OCT-2004 00:05	1.0	0.033	19	1	1	11 sh spk	
023	xj623	SAMPLE	174781-013	95178	Soil	07-OCT-2004 00:42	1.0	0.03328	19		1	11 sh spk	
024	xj624	SAMPLE	174781-015	95178	Soil	07-OCT-2004 01:20	1.0	0.03311	19	1	1	11 sh spk	
025	xj625	SAMPLE	174783-010	95178	Soil	07-OCT-2004 01:58	1.0	0.03303	19	1	1	11 sh spk	
026	xj626	SAMPLE	174781-011	95178	Soil	07-OCT-2004 02:35	1.0	0.03298	19		1	11 sh spk	
027	xj627	SAMPLE	174783-009	95178	Soil	07-OCT-2004 03:12	1.0	0.03333	19		1	11 sh spk	
028	xj628	SAMPLE	174781-012	95178	Soil	07-OCT-2004 03:50	1.0	0.0332	19		1	11 sh spk	
029	xj629	SAMPLE	174780-003	95178	Soil	07-OCT-2004 04:28	1.0	0.03297	19	1	1	11 sh spk	
030	xj630	SAMPLE	174781-014	95178	Soil	07-OCT-2004 05:05	1.0	0.03317	19		1	11 sh spk	

Stds used: 1=04WS1543 2=04WS1379 3=04WS1856 4=04WS1857 5=04WS1858 6=04WS1859 7=04WS1860 8=04WS1861 9=04WS1862 10=04WS1724 11=0
Flags used: -=low bias <<t=out of clock cc=CCV CCC failure sh=out of sample hold spk=5% spike rule t=tune failure

Analyst: _____ Date: 10/7/04

Page 1 of 2

Benz(b) to 80ug/L

ICAL: OK except Benzidine fails %RSD
ICV: Benzidine tend ↑; Benzidine ↓; Benzo (b) fluoranthene ↑ fail %D
— 4,6-Dinitro-2-methylphenol ↑; Carbazole ↓ fail memory test

2 of 2

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 544403805 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 06-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
031	xj631	SAMPLE	174969-002	95178	Soil	07-OCT-2004 05:42	1.0	0.03316		1	11 spk	
032	xj632	SAMPLE	174945-004	95178	Soil	07-OCT-2004 06:19	1.0	0.03374		1	11 spk	
033	xj633	SAMPLE	175037-003	95183	Soil	07-OCT-2004 06:57	1.0	0.03292	73	1	11 <<t	

42

Stds used: 1=04WS1543 2=04WS1379 3=04WS1856 4=04WS1857 5=04WS1858 6=04WS1859 7=04WS1860 8=04WS1861 9=04WS1862 10=04WS1724 11=
Flags used: -=low bias <<t=out of clock cc=CCV CCC failure sh=out of sample hold spk=5% spike rule t=tune failure

Analyst: _____ Date: 10/7/04

MB LCS MS/MSD

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 544409748 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 10-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xja01	TUN	NP NL			10-OCT-2004 13:08	1.0	1.0				1	
002	xja02	CCV				10-OCT-2004 13:27	1.0	1.0	1		1	2	
003	xja03	X	PEM 04WS1924			10-OCT-2004 14:03	1.0						
004	xja04	BLANK	QC267414	95302	Soil	10-OCT-2004 14:41	1.0	0.03376			1	3	
005	xja05	LCS	QC267415	95302	Soil	10-OCT-2004 15:19	1.0	0.03361	3		1	3	
006	xja06	SAMPLE	175150-001	95302	Soil	10-OCT-2004 15:56	1.0	0.03289			1	3	
007	xja07	SAMPLE	175148-001	95302	Soil	10-OCT-2004 16:33	1.0	0.03351			1	3	
008	xja08	SAMPLE	175148-002	95302	Soil	10-OCT-2004 17:10	1.0	0.03287			1	3	
009	xja09	SAMPLE	175149-001	95302	Soil	10-OCT-2004 17:47	1.0	0.03362			1	3	
010	xja10	MSS	174942-010	95302	Soil	10-OCT-2004 18:24	1.0	0.03317	1		1	3 RR ✓ Benzo(b) - not in ICV	
011	xja11	MS	QC267416	95302	Soil	10-OCT-2004 19:02	1.0	0.03301	3		1	3	
012	xja12	MSD	QC267417	95302	Soil	10-OCT-2004 19:38	1.0	0.03321	3		1	3	
013	xja13	SAMPLE	174781-008	94840	Soil	10-OCT-2004 20:15	1.0	0.03297			1	3	
014	xja14	SAMPLE	175094-007	95217	Water	10-OCT-2004 20:54	1.0	0.0009524			1	3 spk	
015	xja15	SAMPLE	175069-001	95217	Water	10-OCT-2004 21:30	1.0	0.0009901	1	1	1	3 spk RR # less 1:NTPH4=622.538	
016	xja16	SAMPLE	175109-001	95217	Water	10-OCT-2004 22:08	1.0	0.0009524			1	3 spk	
017	xja17	MSS	174781-009	94840	Soil	10-OCT-2004 22:45	1.0	0.03361	1		1	3 RR ✓ Benzo(b) - not in ICV	
018	xja18	SAMPLE	174781-001	94924	Soil	10-OCT-2004 23:22	1.0	0.03313		3	1	3 ~~RR~~ all SS	
019	xja19	SAMPLE	175103-003	95253	Soil	11-OCT-2004 00:00	1.0	0.03321			1	3	
020	xja20	SAMPLE	174781-003	94924	Soil	11-OCT-2004 00:36	1.0	0.03347		3	1	3 ~~RR~~ all SS	
021	xja21	SAMPLE	174781-005	94924	Soil	11-OCT-2004 01:13	1.0	0.03343	19	3	1 COMF	3 <<t ~~RR~~ outside clock ~~RR~~	
022	xja22	SAMPLE	174969-004	95178	Soil	11-OCT-2004 01:51	2.0	0.03339	19		1	3 <<t RR ↓	
023	xja23	X	ENDBLANK			11-OCT-2004 02:29	1.0						
024	xja24	X	ENDBLANK			11-OCT-2004 02:59	1.0						
025	xja25	X	ENDBLANK			11-OCT-2004 03:09	1.0						

* CCV = ok
* ICAL: Benzidine failed = N
* ICV: Benzoic Acid ↑ / Benzo(ghi)perylene ↑ / Benzidine ↓
  = 4,6-Dinitrophenol ↑ / 4-2-Methylphenol ↑ / Carbazole ↓ warning limit

Stds used: 1=04WS1543 2=04WS1859 3=04SS118
Flags used: <<t=out of clock spk=5% spike rule

Analyst: [illegible] Date: [illegible]
Page 1 of 1

[illegible] 10/11/04

MS3

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 544412502 Instrument: MSBNA05 HP GCMS BNA 05 Begun: 12-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xjc01	TUN	NP NL			12-OCT-2004 11:02	1.0	1.0				1	
002	xjc02	CCV				12-OCT-2004 11:21	1.0	1.0	7		1	2	
003	xjc03	X	PEM 04WS1924			12-OCT-2004 12:00	1.0						
004	xjc04	SAMPLE	174942-003	95272	Soil	12-OCT-2004 12:36	1.0	0.0339			1	3	
005	xjc05	MSS	174942-010	95302	Soil	12-OCT-2004 13:13	1.0	0.03317	1		1	3	
006	xjc06	MSS	174988-008	95272	Soil	12-OCT-2004 13:49	1.0	0.03386			1	3	
007	xjc07	MSS	174988-002	95272	Soil	12-OCT-2004 14:26	1.0	0.03333			1	3	
008	xjc08	SAMPLE	174988-010	95272	Soil	12-OCT-2004 15:03	1.0	0.03284			1	3	
009	xjc09	SAMPLE	174988-005	95272	Soil	12-OCT-2004 15:39	1.0	0.03322			1	3	
010	xjc10	SAMPLE	174988-003	95272	Soil	12-OCT-2004 16:17	1.0	0.03338			1	3	
011	xjc11	SAMPLE	174988-006	95272	Soil	12-OCT-2004 16:53	1.0	0.03321			1	3	
012	xjc12	SAMPLE	174988-007	95272	Soil	12-OCT-2004 17:30	1.0	0.03334			1	3	
013	xjc13	SAMPLE	174988-009	95272	Soil	12-OCT-2004 18:06	1.0	0.03322			1	3	
014	xjc14	SAMPLE	175101-002	95300	Water	12-OCT-2004 19:04	1.0	0.0009434	3		1	3	
015	xjc15	SAMPLE	175101-004	95300	Water	12-OCT-2004 19:40	1.0	0.0009524	3	1	1	3	
016	xjc16	SAMPLE	175100-001	95300	Water	12-OCT-2004 20:17	1.0	0.001	2	1	1	3	
017	xjc17	SAMPLE	175100-003	95300	Water	12-OCT-2004 20:55	1.0	0.001	2		1	3	
018	xjc18	MSS	175104-003	95300	Water	12-OCT-2004 21:31	2.0	0.0009524	8		1	3	1:BIS2EH=307.421
019	xjc19	SAMPLE	175075-001	95299	Soil	12-OCT-2004 22:08	1.0	0.03311			1	3	
020	xjc20	SAMPLE	175069-002	95217	Water	12-OCT-2004 22:45	1.0	0.0009804	1	1	1	3 spk	1:NTPH4=593.528
021	xjc21	CHECK	SURROGATE CH			12-OCT-2004 23:23	1.0	1.0	6		1	4 3 <<t	
022	xjc22	CHECK	SPIKE CHECK			12-OCT-2004 23:59	1.0	1.0	61		1	5 3 <<t	

CCV: Pyridine ↑; Aniline ↑; bis(2-chloroethyl)ether ↑; bis(2-chloroisopropyl)ether ↑; 2-Nitroaniline ↑; Azobenzene ↑ fail ED
— N-nitroso-di-n-propylamine ↑; Isophorone ↑; Benzoic Acid ↓; Phenol-d5 ↑ fail warning limits
BCAL: Ok accept Benzidine fails %RSD + r²
BCV: Benzoic Acid ↑; Benzidine ↓; Benzo(b)fluoranthene ↑ fail ED
— 4,6-Dinitro-2-methylphenol ↑; Carbazole ↓; fail warning limits

Stds used: 1=04WS1543 2=04WS1859 3=04SS118 4=04WS1942 5=04WS1955
Flags used: <<t=out of clock spk=5% spike rule

Analyst: _____ Date: 10/13/04

10/13/04

9, 10

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 534413911 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 13-OCT-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	wjd01	TUN	NP NL			13-OCT-2004 10:31	1.0	1.0				1	
002	wjd02	CCV				13-OCT-2004 10:50	1.0	1.0	2		1	2	
003	wjd03	X	PEM 04WS1924			13-OCT-2004 11:37	1.0						
004	wjd04	SAMPLE	175141-009	95302	Soil	13-OCT-2004 12:13	1.0	0.03347			1	3	
005	wjd05	SAMPLE	175141-001	95302	Soil	13-OCT-2004 12:49	1.0	0.03281			1	3	
006	wjd06	SAMPLE	175130-001	95358	Soil	13-OCT-2004 13:24	1.0	0.03338		1	1	3 RR # 5%	
007	wjd07	SAMPLE	175130-002	95358	Soil	13-OCT-2004 13:59	1.0	0.03337		1	1	3	
008	wjd08	SAMPLE	175130-003	95358	Soil	13-OCT-2004 14:42	1.0	0.03318		1	1	3	
009	wjd09	SAMPLE	175130-004	95358	Soil	13-OCT-2004 15:16	1.0	0.03327	1		1	3 2X	1:BBP=195.733
010	wjd10	SAMPLE	175130-006	95358	Soil	13-OCT-2004 15:52	1.0	0.03339		1	1	3 5%	
011	wjd11	SAMPLE	175130-007	95358	Soil	13-OCT-2004 16:27	1.0	0.03361		1	1	3	
012	wjd12	SAMPLE	175130-008	95358	Soil	13-OCT-2004 17:02	1.0	0.03294			1	3	
013	wjd13	SAMPLE	175130-009	95358	Soil	13-OCT-2004 17:38	1.0	0.03343		1	1	3 RR # 5%	
014	wjd14	SAMPLE	175130-010	95358	Soil	13-OCT-2004 18:14	1.0	0.03318		1	1	3	
015	wjd15	SAMPLE	174988-016	95358	Soil	13-OCT-2004 18:50	1.0	0.03327			1	3	
016	wjd16	SAMPLE	175055-001	95217	Water	13-OCT-2004 19:26	1.0	0.0009524			1	3 RR spk 5%	3:PHENOL=262.786
017	wjd17	SAMPLE	174942-009	95302	Soil	13-OCT-2004 20:03	1.0	0.03376			1	3	
018	wjd18	SAMPLE	174942-007	95302	Soil	13-OCT-2004 20:39	1.0	0.03315			1	3	
019	wjd19	SAMPLE	174942-011	95302	Soil	13-OCT-2004 21:15	1.0	0.03365			1	3	
020	wjd20	SAMPLE	174942-008	95302	Soil	13-OCT-2004 21:51	1.0	0.03309			1	3	
021	wjd21	SAMPLE	174942-006	95302	Soil	13-OCT-2004 22:27	1.0	0.03334			1	3	
022	wjd22	X	end blank			13-OCT-2004 23:03	1.0						
023	wjd23	X	end blank			13-OCT-2004 23:39	1.0						
024	wjd24	X	end blank			14-OCT-2004 00:14	1.0						

45

* IDA: Benzidine failed = NT
* ICV: 3-Nitroaniline ↓/4-Nitroaniline ↓/ Carbazole ↓/Benzidine ↓
  = Pyridine ↑ warning limits.
* CCV: Aniline /Benzidine failed = NT

Stds used: 1=04WS1543 2=04WS1859 3=04SS118
Flags used: spk=5% spike rule

Analyst: [illegible] Date: [illegible]

Page 1 of 1

AK 10/14/04

REPORTING SUMMARY FOR 175141 8270 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | NPBCDDBDMBMNHNINDBBDTNCHCMHTTCNDADNADNDDDFCNDNABHPPADFPBDBCBDBBBIDNHILCCZCEIENCOSTMZECCALC4TCCCNOMCNOCNTBNELPONNZPCCHNNLYBBZHINZZZNBSESPBBLBPSPSPSL2OPPACPBPABMNCPPP2PNT2NPPFTP PP24SBPLPATBARPZARSOBKAPAMN2HZZAZH2HPEBPH2CE21HNU3PPP22HAHP2APP2H 2H EA6PZEB NHP DAY2PFFP1H | | |

Curtis & Tompkins Laboratories Sample Preparation Summary 08-OCT-2004 19:27

Batch Number : 95302
Date Extracted: 08-OCT-2004
Extracted by : Sharon L. Karagozlu
Prep Method : 3550

Analysis : N/A
Bgroup : MSSVOA
Units : g
Clean-up :

Spike #1 ID : 04WS1834B
Spike #2 ID : 04WS1782C
Spike #3 ID : 04WS1757C

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
174942-006			Tetra Tech EMI	Soil	29.99	g	1	0.033344	1		1	0	0	8270		
174942-007			Tetra Tech EMI	Soil	30.17	g	1	0.033146	1		1	0	0	8270		
174942-008			Tetra Tech EMI	Soil	30.22	g	1	0.033091	1		1	0	0	8270		
174942-009			Tetra Tech EMI	Soil	29.62	g	1	0.033761	1		1	0	0	8270		mss
174942-010			Tetra Tech EMI	Soil	30.15	g	1	0.033167	1		1	0	0	8270		
174942-011			Tetra Tech EMI	Soil	29.72	g	1	0.033647	1		1	0	0	8270		
174994-001			URS Corporation	Soil	29.83	g	1	0.033523	1		1	0	0	8270		
174994-002			URS Corporation	Soil	29.82	g	1	0.033535	1		1	0	0	8270		
174994-003			URS Corporation	Soil	30.04	g	1	0.033289	1		1	0	0	8270		
174994-004			URS Corporation	Soil	30.09	g	1	0.033234	1		1	0	0	8270		
175141-001			Treadwell & Rollo	Soil	30.48	g	1	0.032808	1		1	0	0	8270		
175141-009			Treadwell & Rollo	Soil	29.88	g	1	0.033467	1		1	0	0	8270		
175148-001			URS Corporation	Soil	29.84	g	1	0.033512	1		1	0	0	8270		
175148-002			URS Corporation	Soil	30.42	g	1	0.032873	1		1	0	0	8100		
175149-001			URS Corporation	Soil	29.74	g	1	0.033625	1		1	0	0	8100		
175150-001			URS Corporation	Soil	30.4	g	1	0.032895	1		1	0	0	MSSVOA		
QC267414	MB			Soil	29.62	g	1	0.033761	1		1	1	1	MSSVOA		
QC267415	LCS			Soil	29.75	g	1	0.033613	1		1	1	1	MSSVOA		
QC267416	MS	of 174942-010		Soil	30.29	g	1	0.033014	1		1	1	1	MSSVOA		
QC267417	MSD	of 174942-010		Soil	30.11	g	1	0.033212	1		1	1	1	MSSVOA		

Prep Chemist: _____ Reviewed By: Jennifer Dell Date: 10/8/04

Relinquished By: _____ Received By: _____ Date: 10/11/04

Curtis & Tompkins, Ltd. **8270 SOIL PREP LOG** BK 1976 page 68 of 100

LIMS Batch No: 95302
LIMS Analysis MSS1/07
Extracted by: SLK
Date Extracted: 10/08/04

Extraction Method:
- ☑ EPA 3550b Sonication
- ☐ EPA 3540c Soxhlet
- ☐ Other _____

Cleanup Method (if necessary):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel
- ☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB QC 267414	29.62	1.0		
LCS 15	29.75			
MS 16	30.29			174942-010
MSD 17	30.11			
174994-001	29.83			
-002	29.82			
-003	30.04			
-004	30.09			
SLK 10/08/04 175141-001	30.48			
-009	29.88			
174942-006	29.99			
-007	30.17			
-008	30.22			
-009	29.62			
-010	30.15			MSS
-011	29.72			
175148-001	29.84			
-002	30.42			
175149-001	29.74			
175150-001	30.40			
		JRD 10/8/04		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	F030132	SLK 10/08/04
Samples were dried with baked, CH_2Cl_2-rinsed granular Na_2SO_4	EM 44135434	
1.0 mL of surrogate solution was added to all samples	04WS1834B	
1.0 mL of each matrix spiking solution was added to all spikes	04WS1782C / 04WS1757C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM 44233	
Acetone	EM 44179	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM 43219415	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	
Concentrated to final volumes as noted above	✓	

10/08/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jennifer Dell 10/8/04
Reviewed by / Date

Sample ID	Weight	Analyst	Analysis
175559-055A	30.19	ENGENERI	
↓ -055A	30.21	↓	
175060-001A	50.40	TETHM	SMEWS
↓ -001A	50.08	↓	
174982-001A	29.85	8270	
-002	30.05		
-003	29.50		
-004	29.65		
-005	29.91		
-006	29.99		
-007	30.17		
-008	30.22		
-009	28.62		
-010	30.15		MSS
-011	29.72		
MS	30.29		174982-010A
MSD	30.11		↓
MB	29.62		FO30B2
LCS	29.75		↓

Continued on Page

Read and Understood By

Michelle [illegible] 10/4/04

Signed Date Signed Date

2
PROJECT SOIL AUGUST

Notebook No. 2015

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175141-001A	15.17	8081	
-002	15.21	↓	
-003	14.98		
-004	15.13		
-005	15.09		
-006	14.79		
-007	15.15		
-008	15.16		
-010	14.88		
175144-001A	50.05	TEHM	
↓ -002A	50.29	↓	
175143-001A	50.16	TEHM	
175141-001A	14.86	PCB	
↓ -009A	15.09	↓	
175141-001A	MC 10/7 ~~29.88~~ 30.48	8270	
↓ -009A	29.88	↓	
175141-001A	50.15	TEHM	
↓ -009A	49.97	↓	

Continued on Page

Read and Understood By

Michelle Cantu 10/7/04

Signed Date

Signed Date

PROJECT Soil Aliquot

Notebook No. 2015

Continued From Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175075-001A	30.20	8100	gpc. also 174989-001A
-002A	29.98		-002A
-003A	30.03		-003A
LCS	30.01		
MB	30.11		
175148-001	15.04	PCB	4, COMP A-D
-002	15.03		
175148-001	50.37	TEHM	
-002	49.94		
175148-001	15.25	8081	
-002	15.07		
175148-001	29.84	8270	
-002	30.42		
175139-001	50.32	TEH	4, COMP A-D
175138-001	50.29	TEH	
-002	49.92		
-003	50.08		
-004	49.93		
-005	49.83		
175149-001	50.09	TEHM	4, COMP A-D
175150-001	50.09		
175149-001	15.06	8081	
175150-001	14.90		
175149-001	14.90	PCB	
175150-001	15.00		
175149-001	29.74	8100	
175150-001	30.40		

Continued on Page

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Michelle Cuto — 10/8/04

Signed — Date — Signed — Date

PROJECT Soil Aliquot

Notebook No. 2015

Continued From Page —

Sample ID	Weight (g)	Analysis	Comments
174988-001A	30.39	8270	
-002	30.00		
-003	29.90		
-004	MLC 10/7 ~~30.10~~ 30.06		MSS
-005	MLC 10/7 ~~29.80~~ 30.10		
-006	ML 10/7 ~~30.00~~ 30.11		
-007	29.99		
-008	29.53		
-009	30.10		
-010	30.45		
-011	29.80		
-012	30.09		
-013	29.88		
-014	30.18		
-015	30.06		
MS	30.10		174988-004A
MSD	29.80		↓
LCS	30.00		F030132
MB	29.82		↓
175043-007A	15.18	8081	MSS
-010A	15.16		
-011	14.97		
-016	15.00		
-017	15.24		
MS	14.87		175043-007A
MSD	15.06		↓
MB	14.97		F0130132
LCS	15.13		↓
174994-001	29.83	8270	4. Comp A-D
-002	29.82		
-003	30.04		
-004	30.09		

Continued on Page

Read and Understood By

Michelle Cuts — Signed

10/7/04 — Date

Signed

Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
Phenol	ug/Kg	04/18/03 32	10/20/04 66	04/16/03 28	10/21/04 50	10/19/04 70
2-Chlorophenol	ug/Kg	04/18/03 32	10/20/04 61	04/16/03 22	10/21/04 39	10/19/04 75
1,4-Dichlorobenzene	ug/Kg	04/18/03 28	10/20/04 40	04/16/03 26	10/21/04 29	10/19/04 34
N-Nitroso-di-n-propylamine	ug/Kg	04/18/03 24	10/20/04 38	04/16/03 20	10/21/04 31	10/19/04 37
1,2,4-Trichlorobenzene	ug/Kg	04/18/03 20	10/20/04 36	04/16/03 22	10/21/04 18	10/19/04 30
4-Chloro-3-methylphenol	ug/Kg	04/18/03 38	10/20/04 64	04/16/03 35	10/21/04 40	10/19/04 68
Acenaphthene	ug/Kg	04/18/03 23	10/20/04 26	04/25/03 14	10/21/04 20	10/19/04 34
4-Nitrophenol	ug/Kg	04/28/03 25	10/20/04 47	04/16/03 36	10/21/04 31	10/19/04 66
2,4-Dinitrotoluene	ug/Kg	04/18/03 28	10/20/04 26	04/16/03 21	10/21/04 29	10/19/04 34
Pentachlorophenol	ug/Kg	04/28/03 32	10/20/04 56	04/16/03 47	10/21/04 87	10/19/04 71
Pyrene	ug/Kg	04/18/03 28	10/20/04 30	04/25/03 11	10/21/04 21	10/19/04 34
N-Nitrosodimethylamine	ug/Kg	04/18/03 41	10/20/04 25	04/16/03 22	10/21/04 38	10/19/04 36
Pyridine	ug/Kg	04/18/03 22	10/20/04 28	04/16/03 21	10/21/04 47	10/19/04 24
Aniline	ug/Kg	04/18/03 36	04/16/03 25	04/16/03 35	04/16/03 34	04/18/03 35
bis(2-Chloroethyl)ether	ug/Kg	04/18/03 37	10/20/04 45	04/16/03 24	10/21/04 26	10/19/04 47
1,3-Dichlorobenzene	ug/Kg	04/18/03 27	10/20/04 29	04/16/03 24	10/21/04 25	10/19/04 28
Benzyl alcohol	ug/Kg	04/18/03 31	10/20/04 37	04/16/03 18	10/21/04 19	10/19/04 39
1,2-Dichlorobenzene	ug/Kg	04/18/03 37	10/20/04 33	04/16/03 25	10/21/04 32	10/19/04 33
2-Methylphenol	ug/Kg	04/18/03 26	10/20/04 76	04/16/03 25	10/21/04 59	10/19/04 82
bis(2-Chloroisopropyl) ether	ug/Kg	04/18/03 34	10/20/04 40	04/16/03 21	10/21/04 23	10/19/04 39
4-Methylphenol	ug/Kg	04/18/03 27	10/20/04 60	04/16/03 25	10/21/04 45	10/19/04 76
Hexachloroethane	ug/Kg	04/18/03 26	10/20/04 41	04/16/03 24	10/21/04 23	10/19/04 30
Nitrobenzene	ug/Kg	04/18/03 31	10/20/04 32	04/16/03 20	10/21/04 26	10/19/04 39
Isophorone	ug/Kg	04/18/03 19	10/20/04 37	04/16/03 18	10/21/04 21	10/19/04 35
2-Nitrophenol	ug/Kg	04/28/03 27	10/20/04 71	04/16/03 26	10/21/04 45	10/19/04 61
2,4-Dimethylphenol	ug/Kg	04/18/03 63	10/20/04 79	04/16/03 72	10/21/04 58	10/19/04 68
Benzoic acid	ug/Kg	04/28/03 49	10/20/04 26	04/16/03 200	10/21/04 56	10/19/04 70
bis(2-Chloroethoxy)methane	ug/Kg	04/18/03 30	10/20/04 36	04/16/03 22	10/21/04 22	10/19/04 39
2,4-Dichlorophenol	ug/Kg	04/18/03 31	10/20/04 59	04/16/03 25	10/21/04 52	10/19/04 59
Naphthalene	ug/Kg	04/18/03 24	10/20/04 30	04/16/03 22	10/21/04 21	10/19/04 36
4-Chloroaniline	ug/Kg	04/18/03 30	10/20/04 21	04/16/03 36	10/21/04 16	10/19/04 21
Hexachlorobutadiene	ug/Kg	04/18/03 29	10/20/04 34	04/16/03 23	10/21/04 25	10/19/04 28
2-Methylnaphthalene	ug/Kg	04/18/03 27	10/20/04 34	04/16/03 24	10/21/04 29	10/19/04 30
Hexachlorocyclopentadiene	ug/Kg	04/28/03 30	10/20/04 58	04/16/03 110	10/21/04 40	10/19/04 38
2,4,6-Trichlorophenol	ug/Kg	04/18/03 30	10/20/04 55	04/16/03 29	10/21/04 43	10/19/04 59
2,4,5-Trichlorophenol	ug/Kg	04/18/03 20	10/20/04 47	04/16/03 33	10/21/04 42	10/19/04 57
2-Chloronaphthalene	ug/Kg	04/18/03 29	10/20/04 43	04/16/03 20	10/21/04 20	10/19/04 39
2-Nitroaniline	ug/Kg	04/18/03 25	10/20/04 35	04/25/03 8.8	10/21/04 23	10/19/04 49
Dimethylphthalate	ug/Kg	04/18/03 34	10/20/04 31	04/16/03 26	10/21/04 17	10/19/04 35
Acenaphthylene	ug/Kg	04/18/03 27	10/20/04 22	04/25/03 14	10/21/04 14	10/19/04 28
2,6-Dinitrotoluene	ug/Kg	04/18/03 29	10/20/04 16	04/16/03 32	10/21/04 16	10/19/04 33
3-Nitroaniline	ug/Kg	04/18/03 21	10/20/04 17	04/25/03 16	10/21/04 26	10/19/04 25
2,4-Dinitrophenol	ug/Kg	04/18/03 170	10/20/04 28	04/16/03 200	10/21/04 25	10/19/04 45
Dibenzofuran	ug/Kg	04/18/03 22	10/20/04 32	04/16/03 24	10/21/04 16	10/19/04 34
Diethylphthalate	ug/Kg	04/18/03 24	10/20/04 29	04/16/03 27	10/21/04 21	10/19/04 38
Fluorene	ug/Kg	04/18/03 21	10/20/04 31	04/25/03 15	10/21/04 20	10/19/04 38
4-Chlorophenyl-phenylether	ug/Kg	04/18/03 31	10/20/04 32	04/16/03 25	10/21/04 17	10/19/04 36
4-Nitroaniline	ug/Kg	04/18/03 33	10/20/04 25	04/16/03 30	10/21/04 16	10/19/04 38
4,6-Dinitro-2-methylphenol	ug/Kg	04/18/03 240	10/20/04 52	04/16/03 230	10/21/04 40	10/19/04 80
N-Nitrosodiphenylamine	ug/Kg	04/18/03 23	10/20/04 33	04/16/03 34	10/21/04 25	10/19/04 36
Azobenzene	ug/Kg	04/18/03 19	10/20/04 34	04/16/03 29	10/21/04 17	10/19/04 46

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil 3550

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05
4-Bromophenyl-phenylether	ug/Kg	04/18/03 40	10/20/04 34	04/16/03 25	10/21/04 21	10/19/04 30
Hexachlorobenzene	ug/Kg	04/18/03 24	10/20/04 43	04/16/03 25	10/21/04 28	10/19/04 32
Phenanthrene	ug/Kg	04/18/03 24	10/20/04 30	04/25/03 13	10/21/04 18	10/19/04 37
Anthracene	ug/Kg	04/18/03 28	10/20/04 26	04/25/03 14	10/21/04 9.5	10/19/04 29
Di-n-butylphthalate	ug/Kg	04/18/03 33	10/20/04 34	04/16/03 37	10/21/04 17	10/19/04 39
Fluoranthene	ug/Kg	04/18/03 31	10/20/04 32	04/25/03 12	10/21/04 22	10/19/04 36
Benzidine	ug/Kg	04/28/03 80	05/02/03 33			11/19/02 140
Butylbenzylphthalate	ug/Kg	04/18/03 31	10/20/04 25	04/16/03 28	10/21/04 22	10/19/04 38
3,3'-Dichlorobenzidine	ug/Kg	04/18/03 44	10/20/04 18	04/16/03 49	10/21/04 27	10/19/04 24
Benzo(a)anthracene	ug/Kg	04/18/03 23	10/20/04 25	04/25/03 11	10/21/04 23	10/19/04 32
Chrysene	ug/Kg	04/18/03 28	10/20/04 35	04/25/03 13	10/21/04 17	10/19/04 30
bis(2-Ethylhexyl)phthalate	ug/Kg	04/18/03 26	10/20/04 17	04/16/03 28	10/21/04 16	10/19/04 33
Di-n-octylphthalate	ug/Kg	04/18/03 21	10/20/04 10	04/16/03 29	10/21/04 13	10/19/04 39
Benzo(b)fluoranthene	ug/Kg	04/18/03 21	10/20/04 42	04/25/03 12	10/21/04 24	10/19/04 29
Benzo(k)fluoranthene	ug/Kg	04/18/03 27	10/20/04 22	04/25/03 9.2	10/21/04 37	10/19/04 43
Benzo(a)pyrene	ug/Kg	04/28/03 21	10/20/04 23	04/25/03 11	10/21/04 13	10/19/04 27
Indeno(1,2,3-cd)pyrene	ug/Kg	04/18/03 31	10/20/04 39	04/25/03 14	10/21/04 14	10/19/04 37
Dibenz(a,h)anthracene	ug/Kg	04/28/03 21	10/20/04 25	04/25/03 14	10/21/04 23	10/19/04 35
Benzo(g,h,i)perylene	ug/Kg	04/18/03 24	10/20/04 23	04/25/03 14	10/21/04 17	10/19/04 38

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 534413911005	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: wjd05	Batchnum	: 95302	Injected	: 13-OCT-2004 12:49
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534400909001	Caldate	: 04-OCT-2004	Caltype	:

Prep: 30.48 g --> 1.0 ml = 0.03281 ml/g PDF

Analyte	Result	RTS	RL	B=xja04	Flags
N-Nitrosodimethylamine	ND		330		
Phenol	ND		330		
bis(2-Chloroethyl)ether	ND		330		
2-Chlorophenol	ND		330		
1,3-Dichlorobenzene	ND		330		
1,4-Dichlorobenzene	ND		330		
Benzyl alcohol	ND		330		
1,2-Dichlorobenzene	ND		330		
2-Methylphenol	ND		330		
bis(2-Chloroisopropyl) ether	ND		330		
4-Methylphenol	ND		330		
N-Nitroso-di-n-propylamine...	350	0.118	330		x
Hexachloroethane	ND		330		
Nitrobenzene	ND		330		
Isophorone.....	510	-0.332	330		x
2-Nitrophenol	ND		660		
2,4-Dimethylphenol	ND		330		
Benzoic acid	ND		1600		
bis(2-Chloroethoxy)methane	ND		330		
2,4-Dichlorophenol	ND		330		
1,2,4-Trichlorobenzene	ND		330		
Naphthalene	ND		330		
4-Chloroaniline	ND		330		
Hexachlorobutadiene	ND		330		
4-Chloro-3-methylphenol	ND		330		
2-Methylnaphthalene	ND		330		
Hexachlorocyclopentadiene	ND		1600		
2,4,6-Trichlorophenol	ND		330		
2,4,5-Trichlorophenol	ND		330		
2-Chloronaphthalene	ND		330		
2-Nitroaniline	ND		660		
Dimethylphthalate	ND		330		
Acenaphthylene	ND		330		
2,6-Dinitrotoluene.....	460	0.180	330		x
3-Nitroaniline	ND		660		v-
Acenaphthene	ND		660		
2,4-Dinitrophenol	ND		1600		
4-Nitrophenol	ND		660		
Dibenzofuran	ND		330		
2,4-Dinitrotoluene.....	360	-0.301	330		x
Diethylphthalate	ND		330		

-=low bias v=ICV x=false positive

Analyst: _____ Date: 10/15/04 Reviewer: _____ Date: 10/15/04

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum:	175141-001	Cident	: BB4EX100[0.5]
Seqnum	: 534413911005	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: wjd05	Batchnum	: 95302	Injected	: 13-OCT-2004 12:49
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534400909001	Caldate	: 04-OCT-2004	Caltype	:

Analyte	Result	RTS	RL	B=xja04	Flags
Fluorene	ND		330		
4-Chlorophenyl-phenylether	ND		330		
4-Nitroaniline	ND		660		v-
4,6-Dinitro-2-methylphenol	ND		1600		
N-Nitrosodiphenylamine	ND		330		
Azobenzene	ND		330		
4-Bromophenyl-phenylether	ND		330		
Hexachlorobenzene	ND		330		
Pentachlorophenol	ND		660		
Phenanthrene	ND		330		
Anthracene	ND		330		
Di-n-butylphthalate	ND		330		
Fluoranthene	ND		330		
Pyrene	ND		330		
Butylbenzylphthalate	ND		330		
3,3'-Dichlorobenzidine	ND		660		
Benzo(a)anthracene	ND		66		
Chrysene	ND		330		
bis(2-Ethylhexyl)phthalate	ND		330		
Di-n-octylphthalate	ND		330		
Benzo(b)fluoranthene	ND		66		
Benzo(k)fluoranthene	ND		66		
Benzo(a)pyrene	ND		66		
Indeno(1,2,3-cd)pyrene	ND		66		
Dibenz(a,h)anthracene	ND		66		
Benzo(g,h,i)perylene	ND		330		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3281	1964	60	25-121	
Phenol-d5	3281	1942	59	24-113	
2,4,6-Tribromophenol	3281	1698	52	19-122	
Nitrobenzene-d5	1640	895.9	55	23-120	
2-Fluorobiphenyl	1640	867.5	53	30-115	
Terphenyl-d14	1640	904.5	55	18-137	

ISTD (CCV=wjd02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	219898	209295	-4.82	5.47	5.45	-0.02
Naphthalene-d8	744394	769286	3.34	6.93	6.92	-0.01
Acenaphthene-d10	515724	564754	9.51	9.02	9.02	0.00
Phenanthrene-d10	813032	970469	19.36	10.80	10.80	0.00
Chrysene-d12	837690	791836	-5.47	13.99	13.98	-0.01
Perylene-d12	588648	509051	-13.52	15.75	15.74	-0.01

-=low bias v=ICV x=false positive

Analyst: _____ Date: 10/15/04 Reviewer: _____ Date: 10/15/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D
Report Date: 13-Oct-2004 13:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 13-OCT-2004 12:49 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : S,175141-001
Misc Info : 95302,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\6PTBNA4.m
Meth Date : 13-Oct-2004 11:51 tapsvc Quant Type: ISTD
Cal Date : 04-OCT-2004 17:46 Cal File: WJ412.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	4.080	4.033	(0.749)	337697	59.8694	59.8693
$ 4 Phenol-d5	99	5.123	5.107	(0.940)	364674	59.1839	59.1839
6 Aniline	66	5.123	5.220	(0.940)	34805	4.78927	4.7892(a)
* 10 1,4-Dichlorobenzene-d4	152	5.450	5.465	(1.000)	209295	40.0000	
17 N-Nitroso-di-n-propylamine	70	6.105	5.987	(1.120)	34989	10.6201	10.6200
$ 19 Nitrobenzene-d5	82	6.105	6.120	(0.882)	198712	27.3074	27.3073
21 Isophorone	82	6.105	6.437	(0.882)	198712	15.5593	15.5592
* 28 Naphthalene-d8	136	6.923	6.928	(1.000)	769286	40.0000	
$ 37 2-Fluorobiphenyl	172	8.232	8.237	(0.913)	525415	26.4408	26.4408
40 Dimethylphthalate	163	9.020	8.769	(1.000)	124079	5.56375	5.5637(Q)
41 2,6-Dinitrotoluene	165	9.020	8.840	(1.000)	73940	14.1014	14.1014
* 44 Acenaphthene-d10	164	9.020	9.024	(1.000)	564754	40.0000	
51 2,4-Dinitrotoluene	165	9.020	9.321	(1.000)	73940	11.0726	11.0726
$ 57 2,4,6-Tribromophenol	330	9.971	9.986	(1.105)	209522	51.7594	51.7593

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D
Report Date: 13-Oct-2004 13:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
58 4-Bromophenyl-phenylether	248	9.971	10.282	(0.923)	14355	2.19126	2.1912(aQ)
* 61 Phenanthrene-d10	188	10.799	10.804	(1.000)	970469	40.0000	
67 Benzidine	184	12.743	12.451	(0.911)	10961	4.42520	4.4252(a)
$ 69 Terphenyl-d14	244	12.743	12.747	(0.911)	594992	27.5687	27.5686
* 73 Chrysene-d12	240	13.980	13.985	(1.000)	791836	40.0000	
* 80 Perylene-d12	264	15.739	15.754	(1.000)	509051	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D
Report Date: 13-Oct-2004 13:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 13-OCT-2004 12:49 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : S,175141-001
Misc Info : 95302,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\6PTBNA4.m
Meth Date : 13-Oct-2004 11:51 tapsvc Quant Type: ISTD
Cal Date : 04-OCT-2004 17:46 Cal File: WJ412.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	5.450	1449975	40.000
* 73 Chrysene-d12	13.980	2309838	40.000
* 80 Perylene-d12	15.739	1523400	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
1,5-Heptadien-3-yne				CAS #: 3511-27-1			
2.760	200382	5.52787462	5.5278	46	nbs75k.1	969	10

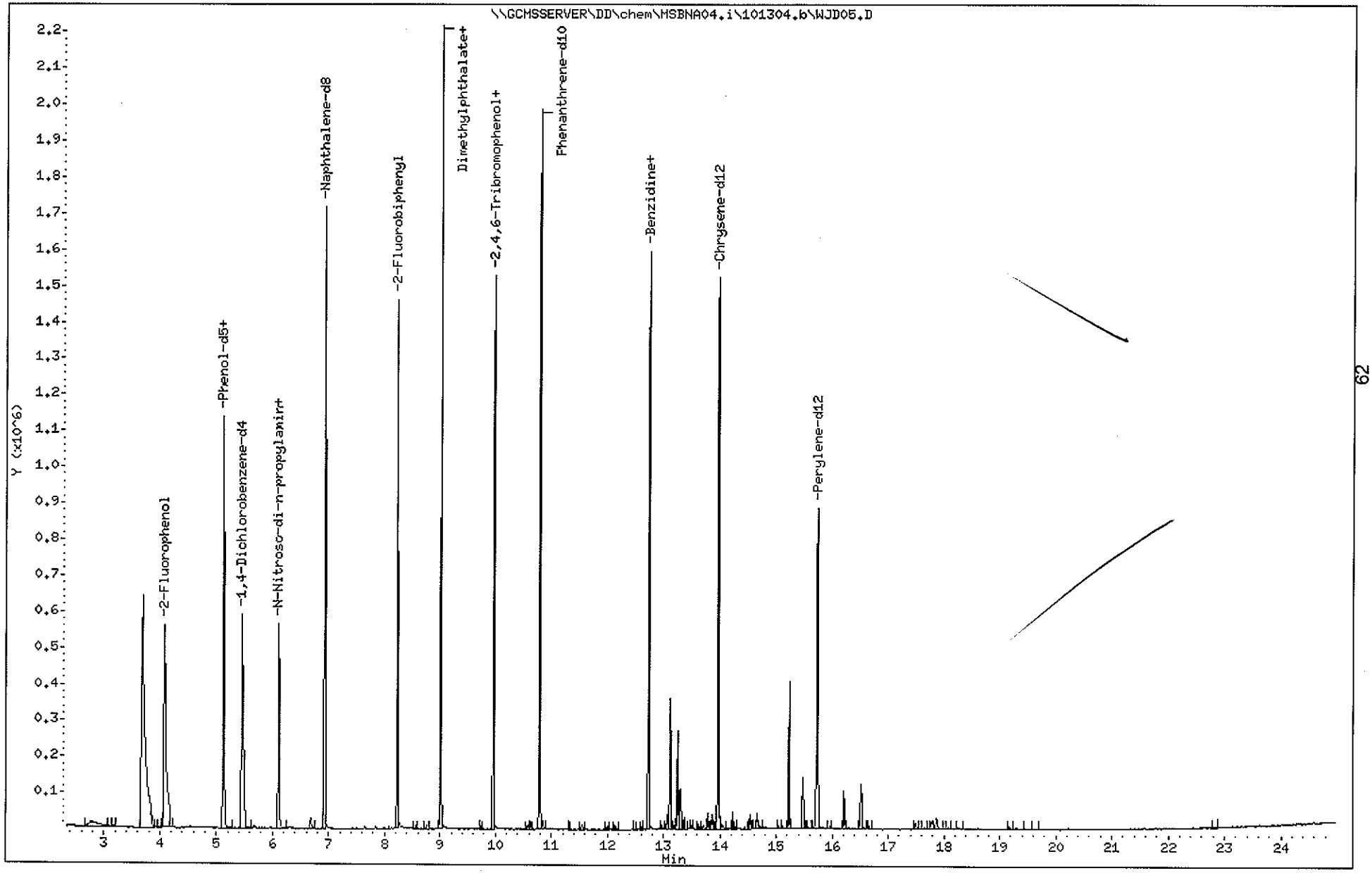
Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D
Report Date: 13-Oct-2004 13:49

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
3.681	2819001	77.7668856	77.7668	45	nbs75k.l	64275	10
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
13.121	444046	7.68964750	7.6896	93	nbs75k.l	72444	73
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa					CAS #: 511-15-9		
13.254	300918	5.21106675	5.2110	95	nbs75k.l	40596	73
(Z)14-Tricosenyl formate					CAS #: 77899-10-6		
15.228	467508	12.2753840	12.2753	76	nbs75k.l	50987	80
Eicosane					CAS #: 112-95-8		
15.473	213544	5.60703689	5.6070	96	nbs75k.l	72326	80
7-Azabicyclo(4.1.0)heptane, 1-methyl-					CAS #: 25022-25-7		
16.210	159882	4.19803072	4.1980	60	nbs75k.l	2429	80
Decane, 3,8-dimethyl-					CAS #: 17312-55-9		
16.517	236916	6.22071682	6.2207	93	nbs75k.l	68255	80

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D
Date : 13-OCT-2004 12:49
Client ID: CURTIS&TOMPKINS
Sample Info: S,175141-001
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i

Operator: BVD
Column diameter: 0.25



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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

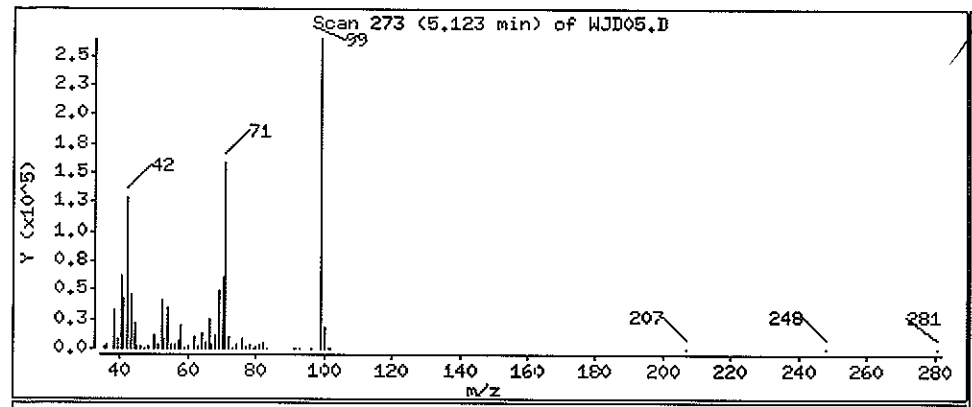
Operator: BVD

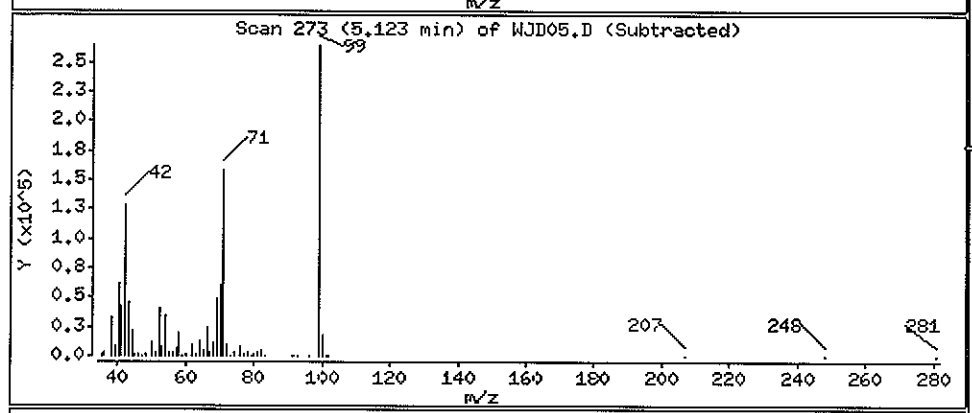
Column phase: Xti 5 x .5 u

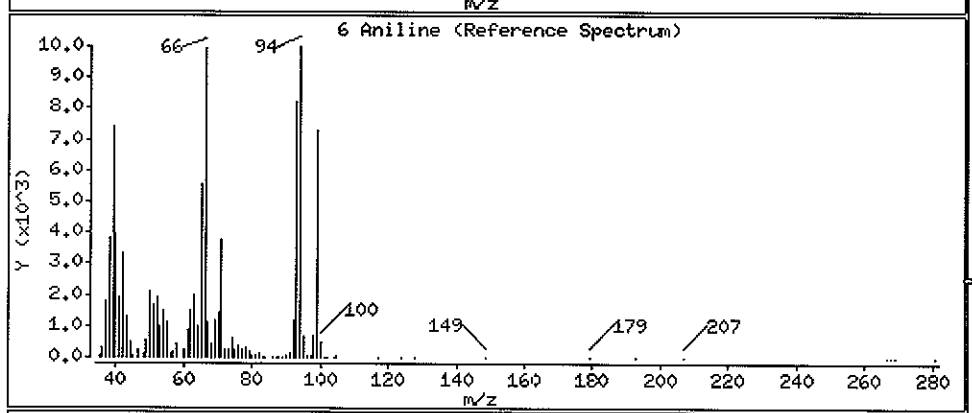
Column diameter: 0.25

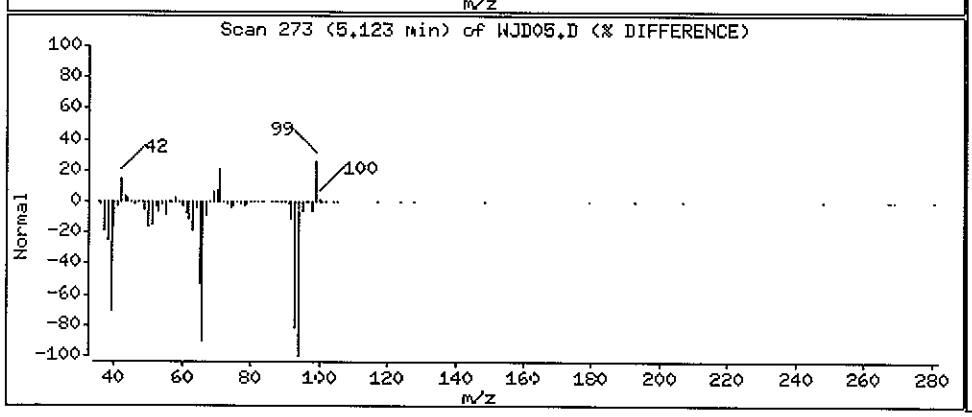
6 Aniline

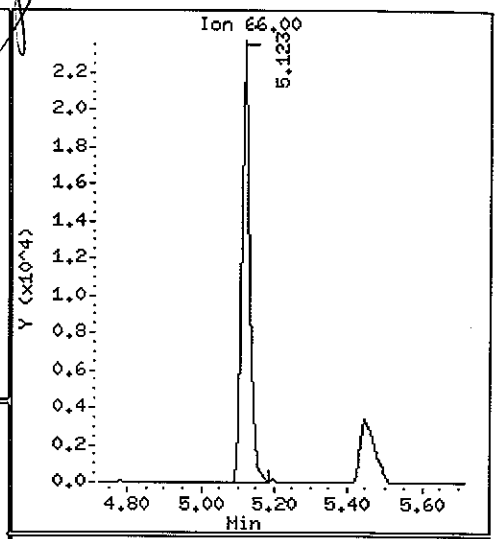
Concentration: 4.7892 ug/L

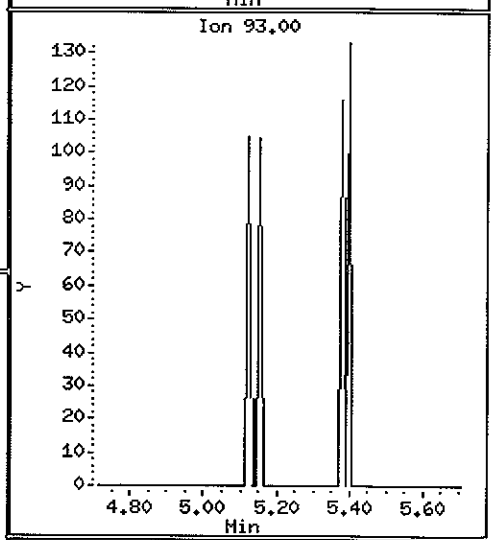


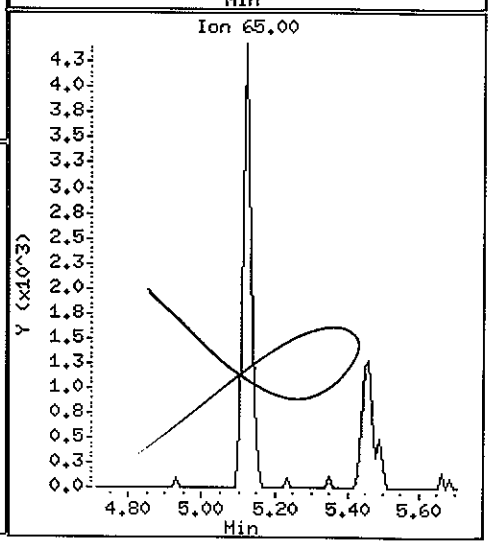












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D

Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

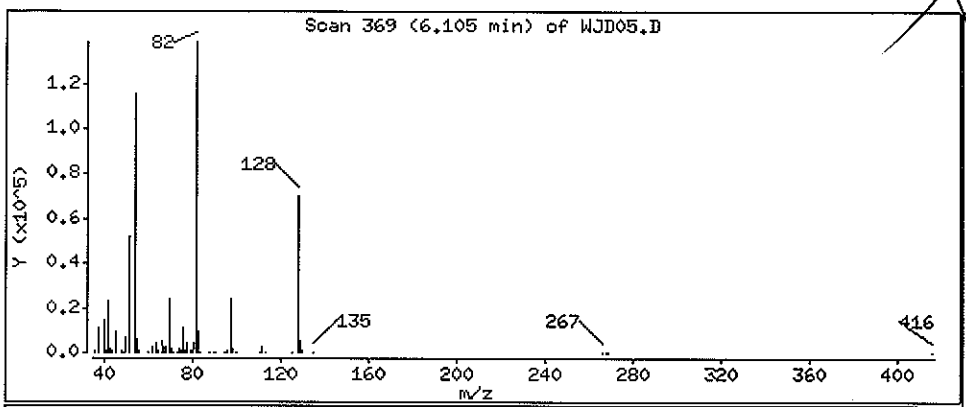
Operator: BVD

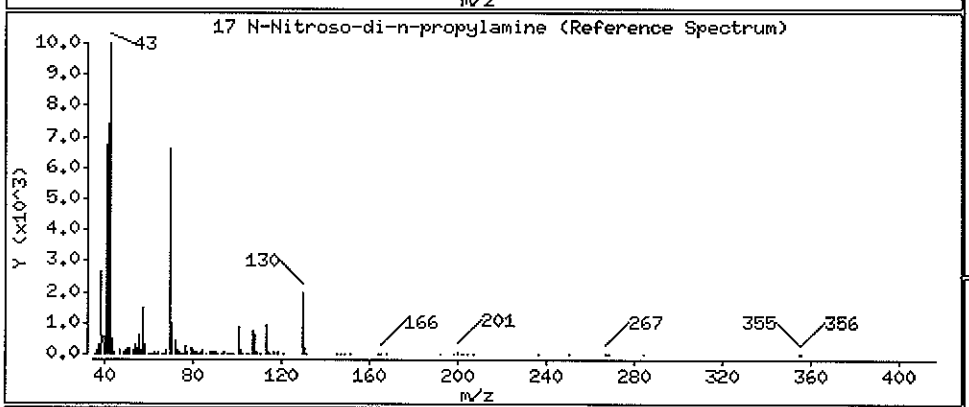
Column phase: Xti 5 x .5 u

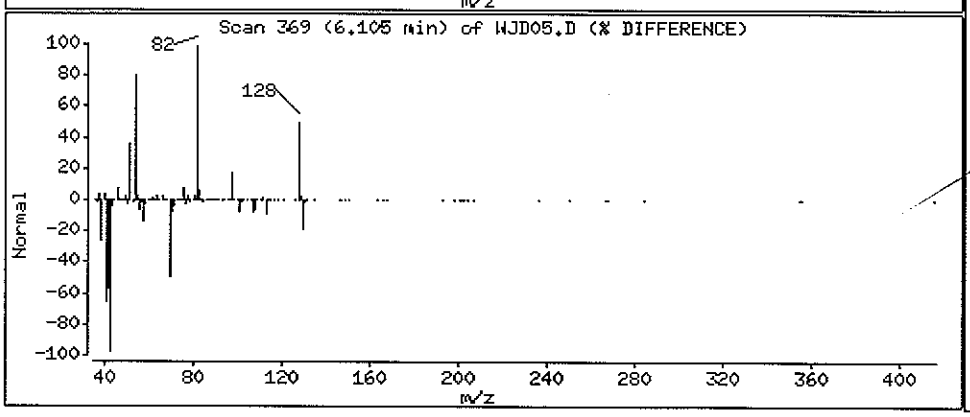
Column diameter: 0.25

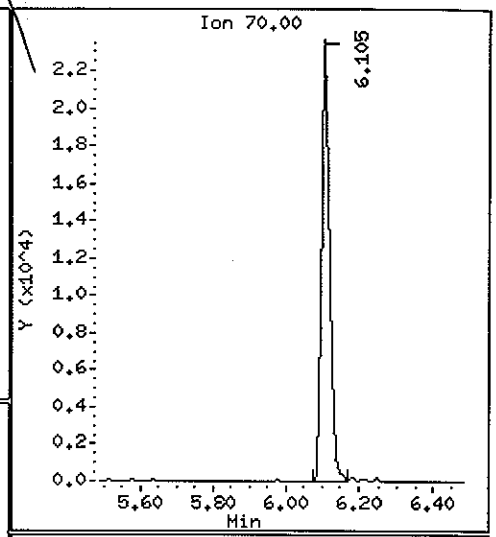
17 N-Nitroso-di-n-propylamine

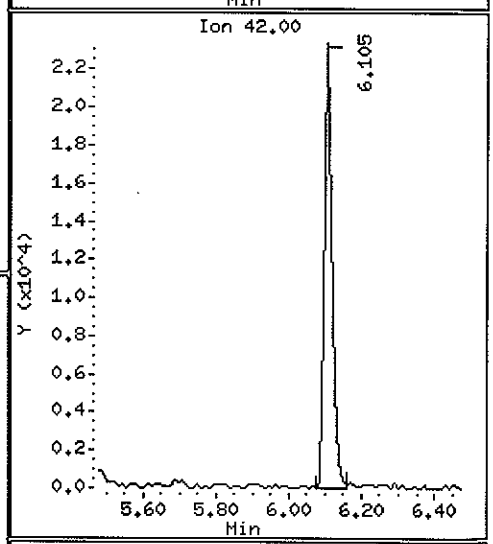
Concentration: 10.6200 ug/L

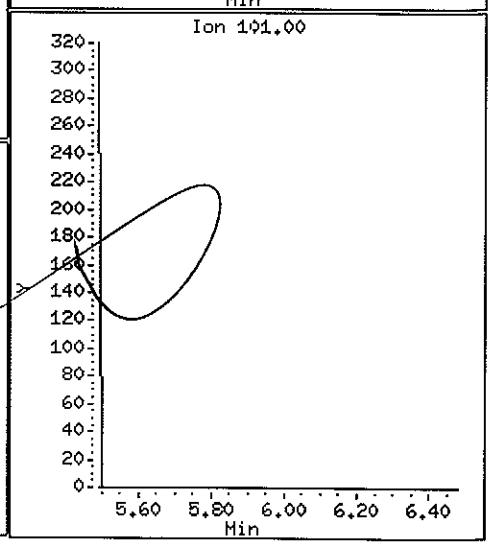












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D

Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

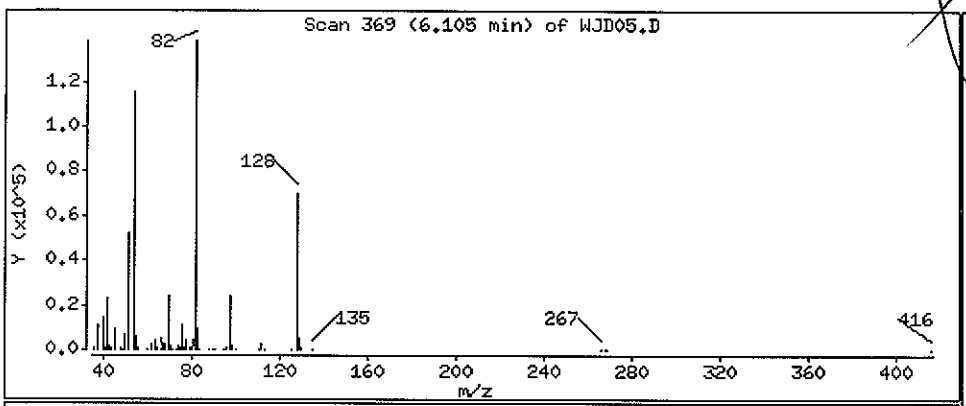
Operator: BVD

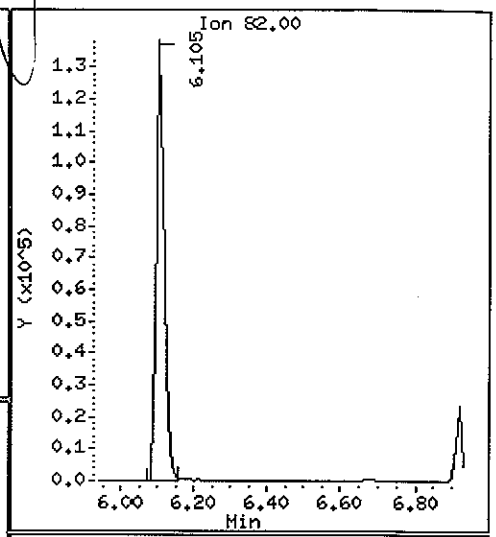
Column phase: Xti 5 x .5 u

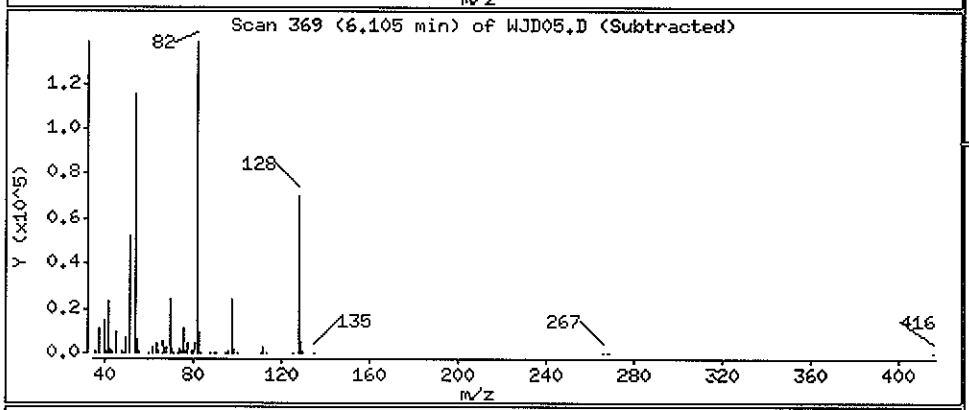
Column diameter: 0.25

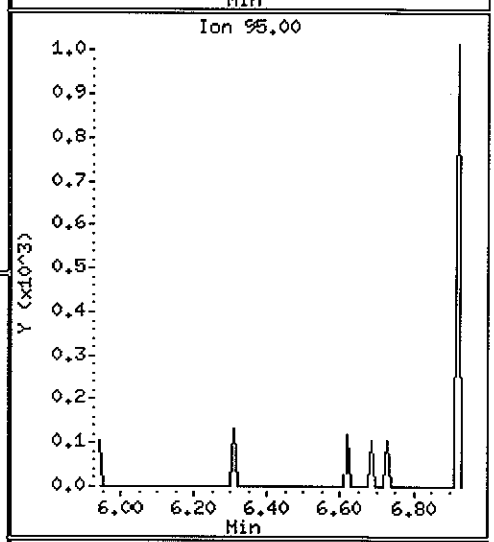
21 Isophorone

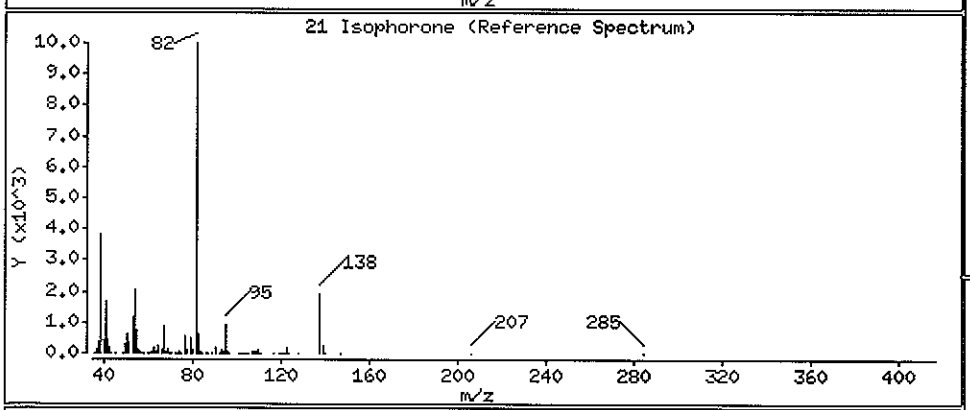
Concentration: 15.5592 ug/L

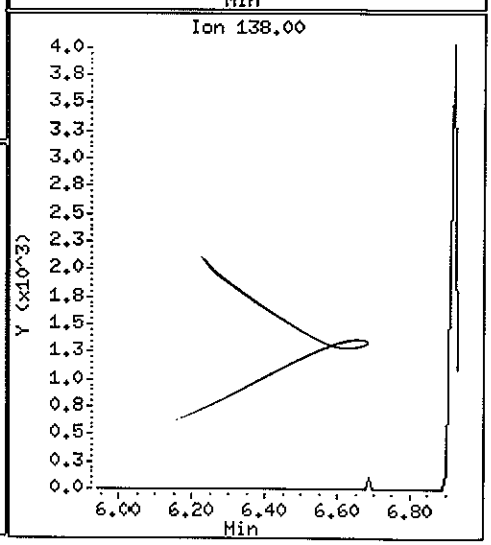


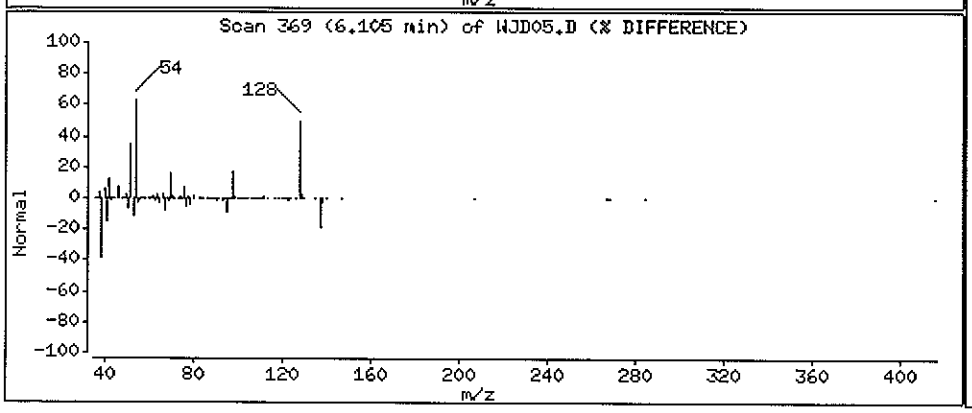












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD05.D

Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

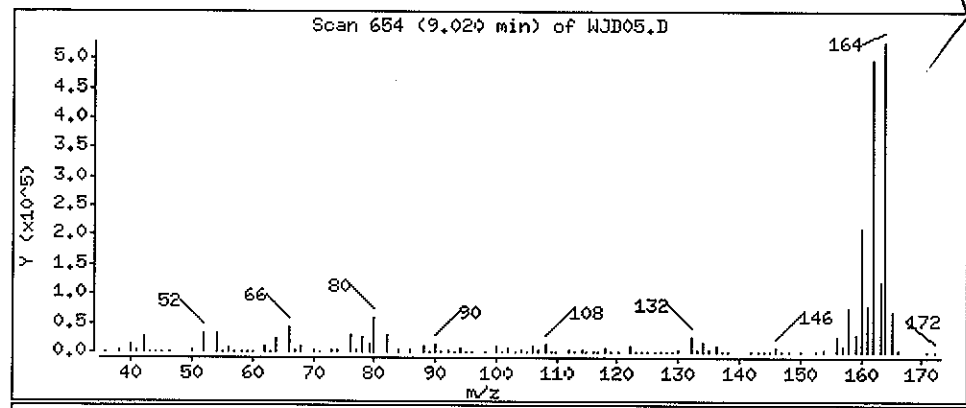
Operator: BVD

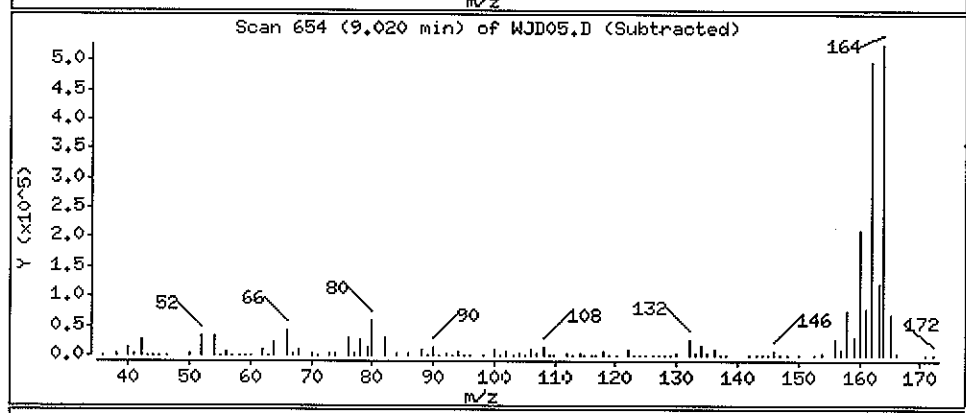
Column phase: Xti 5 x .5 u

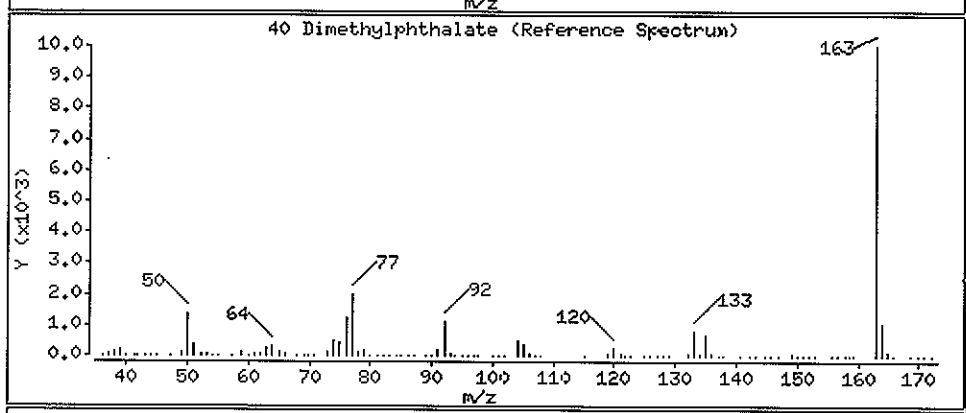
Column diameter: 0.25

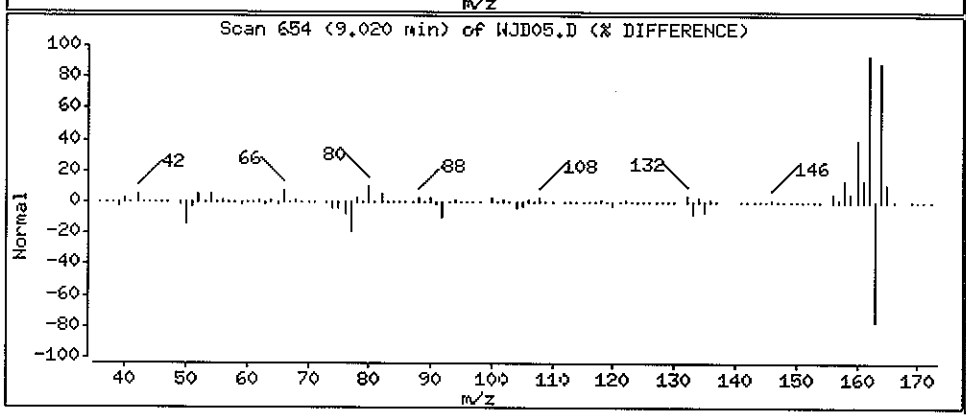
40 Dimethylphthalate

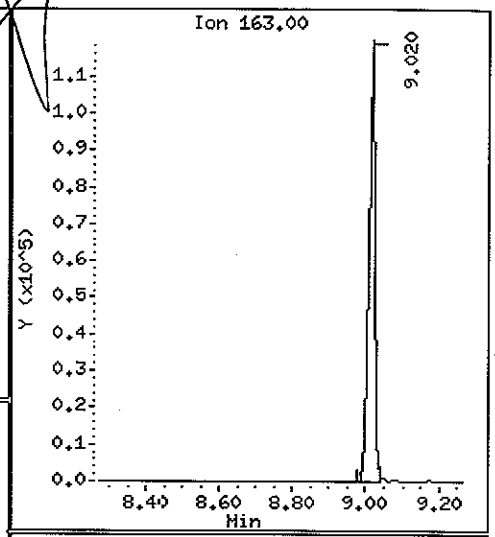
Concentration: 5.5637 ug/L

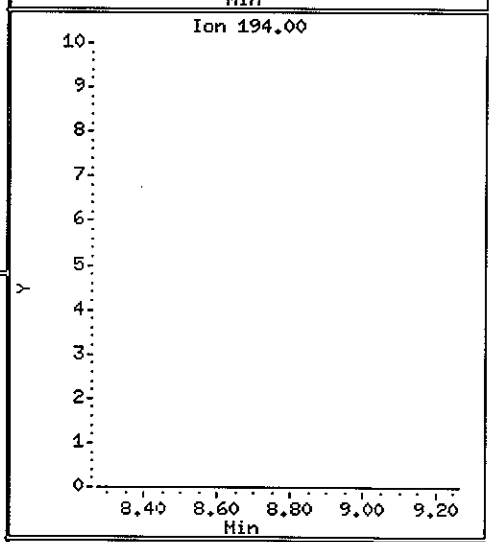


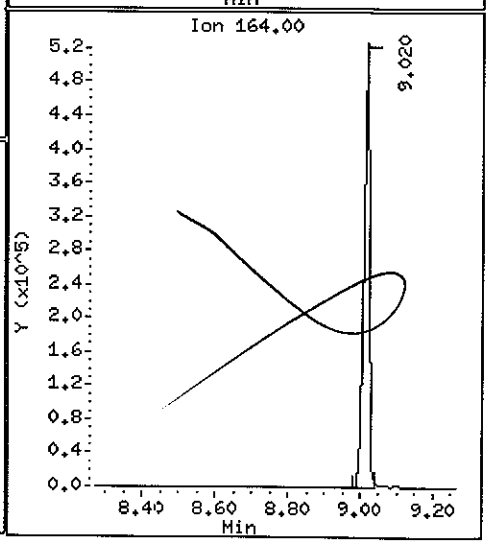












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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

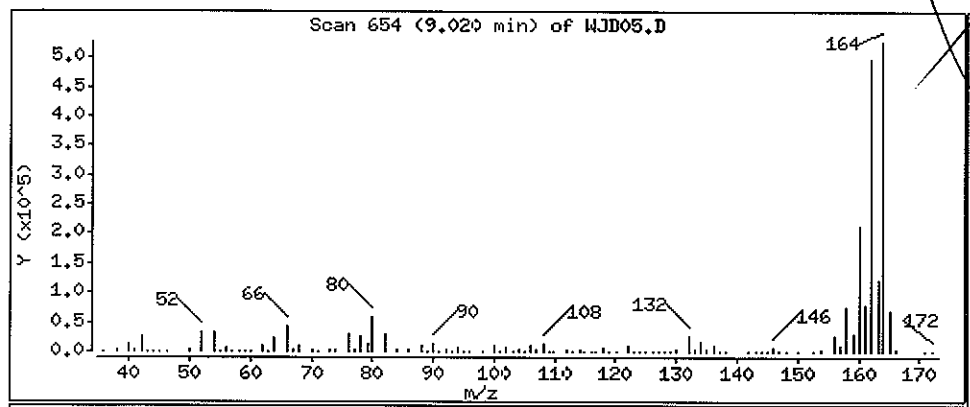
Operator: BVD

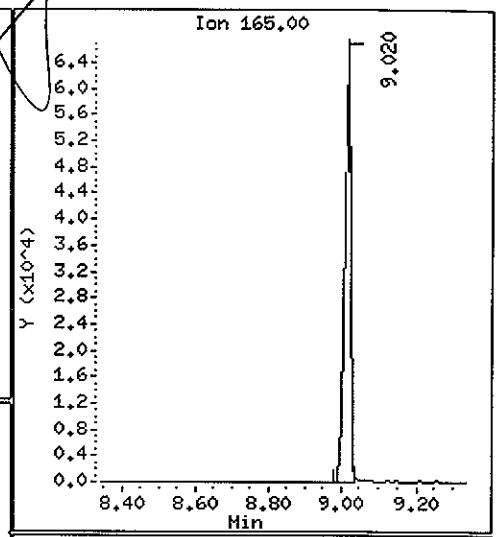
Column phase: Xti 5 x .5 u

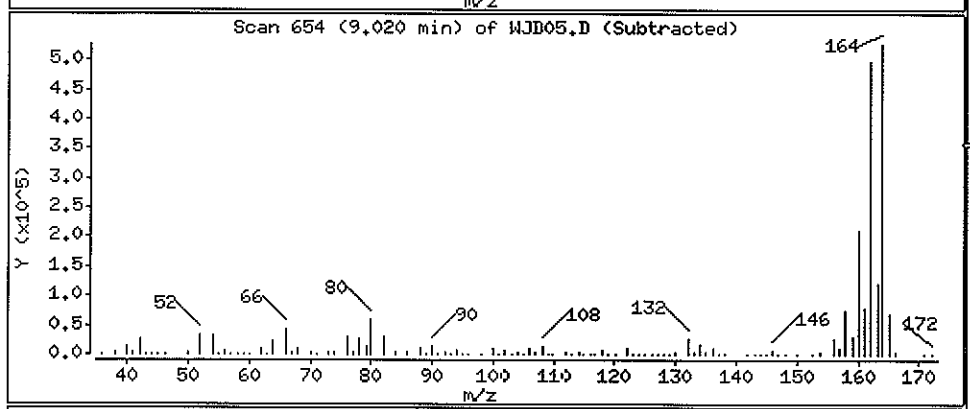
Column diameter: 0.25

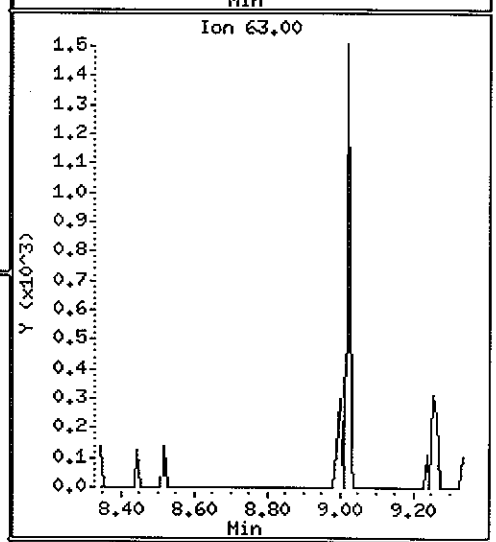
41 2,6-Dinitrotoluene

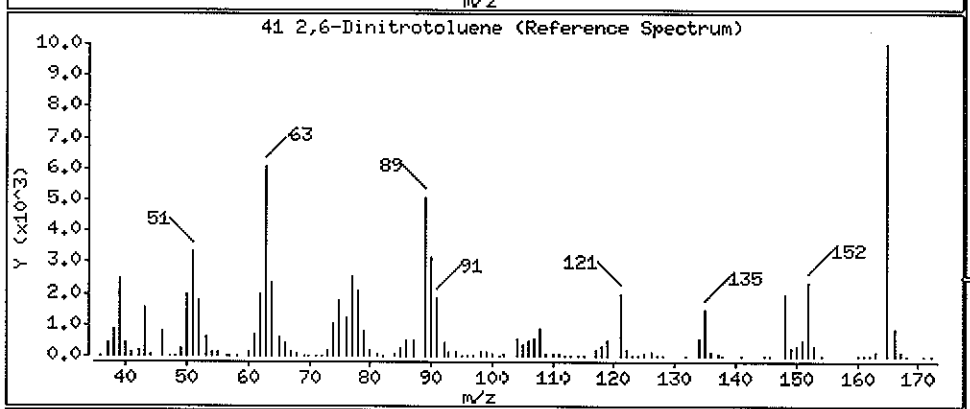
Concentration: 14.1014 ug/L

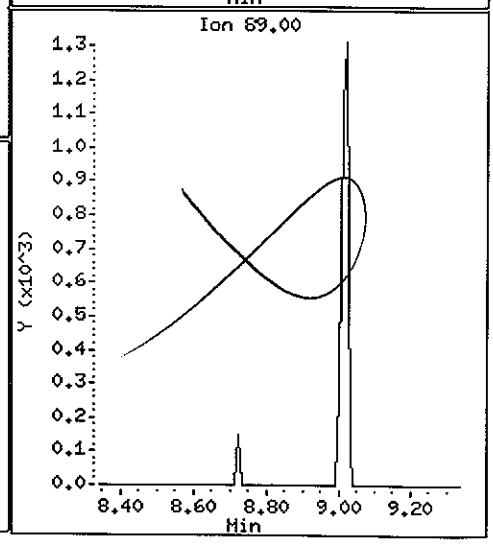


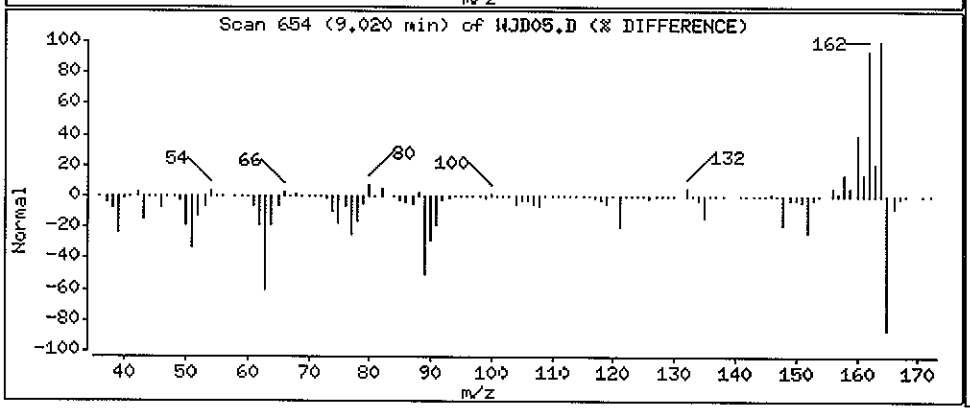












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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

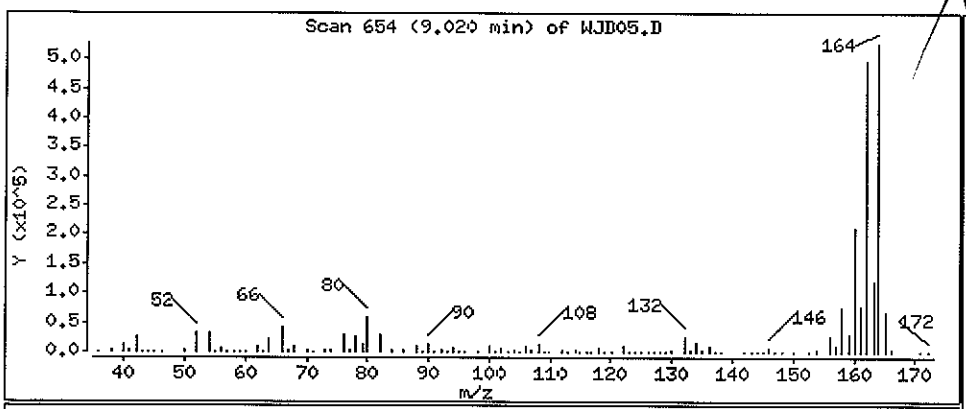
Operator: BVD

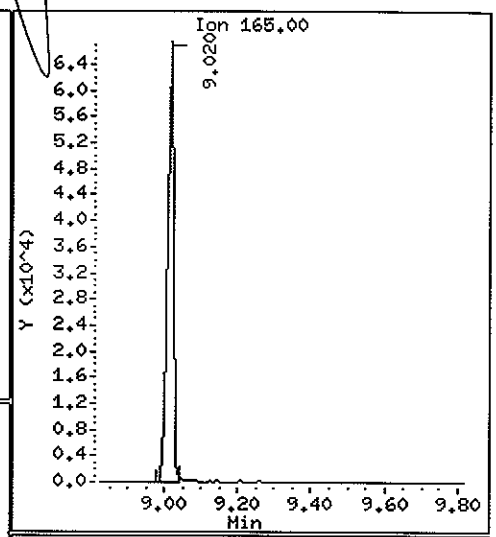
Column phase: Xti 5 x .5 u

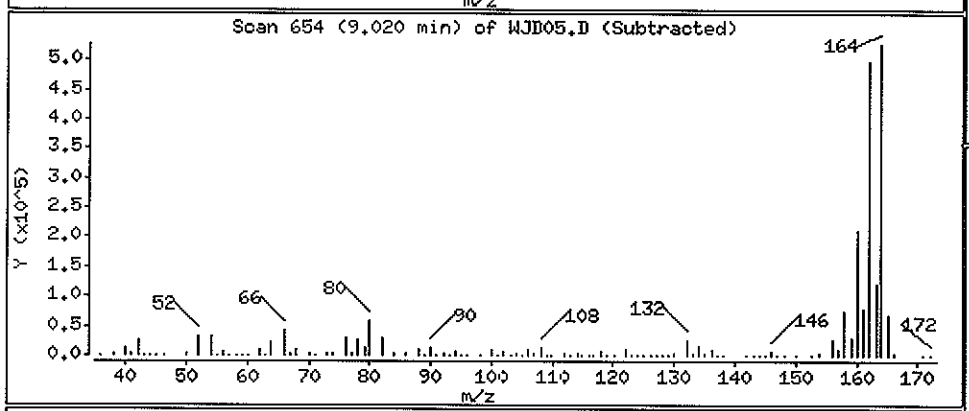
Column diameter: 0.25

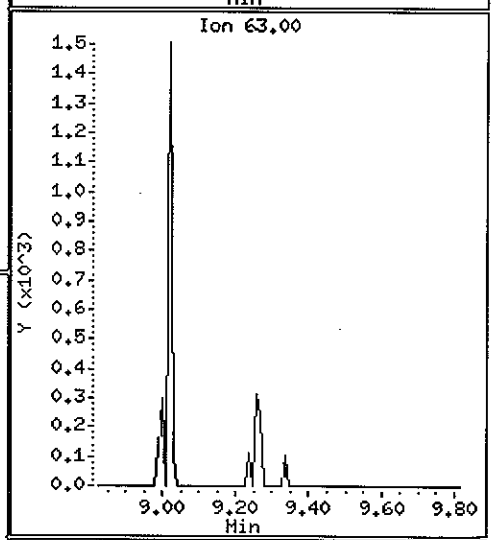
51 2,4-Dinitrotoluene

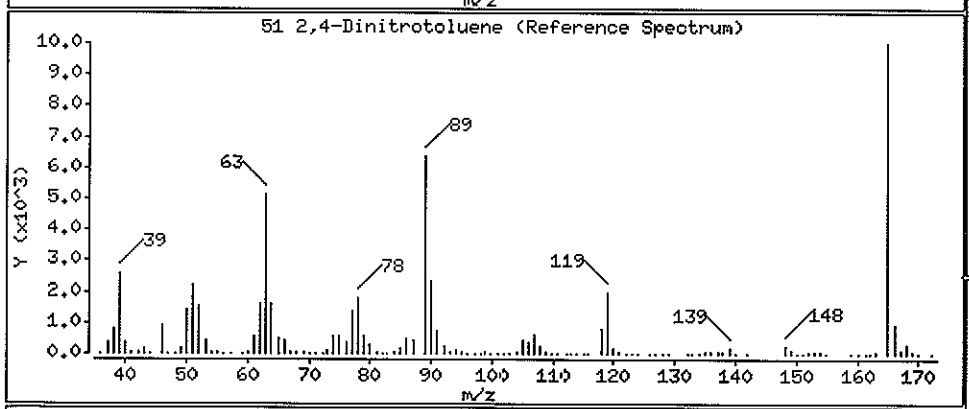
Concentration: 11.0728 ug/L

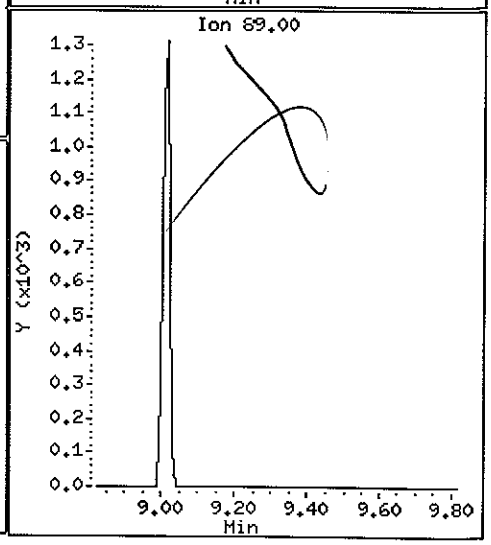


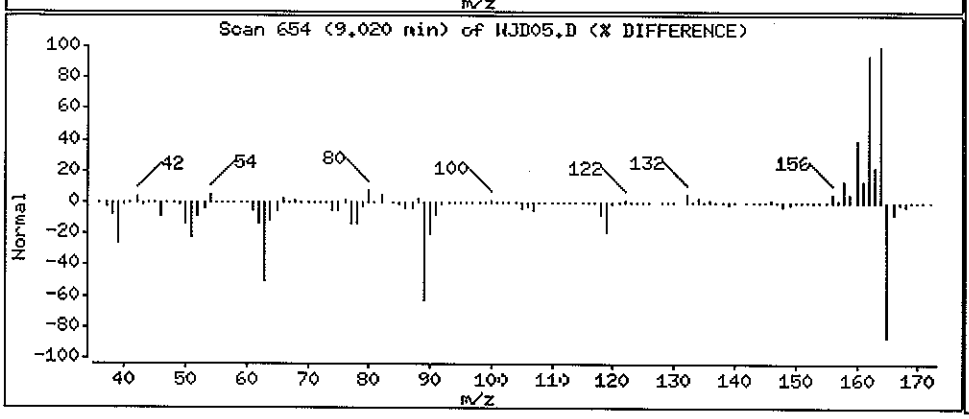












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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

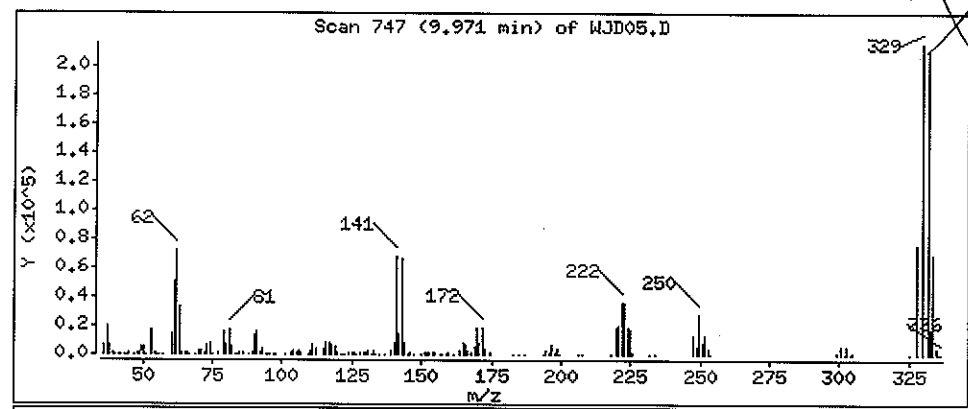
Operator: BVD

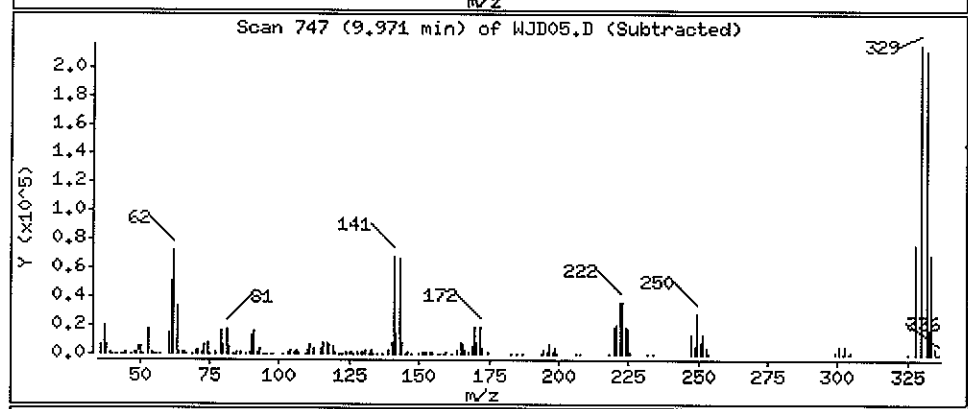
Column phase: Xti 5 x .5 u

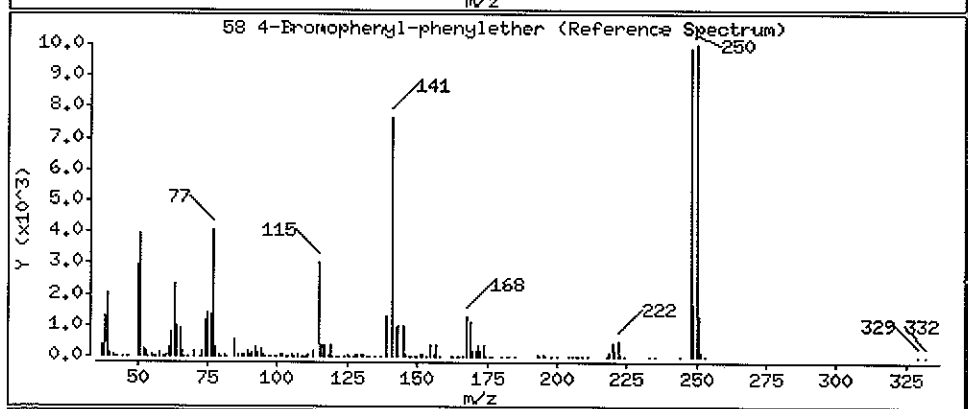
Column diameter: 0.25

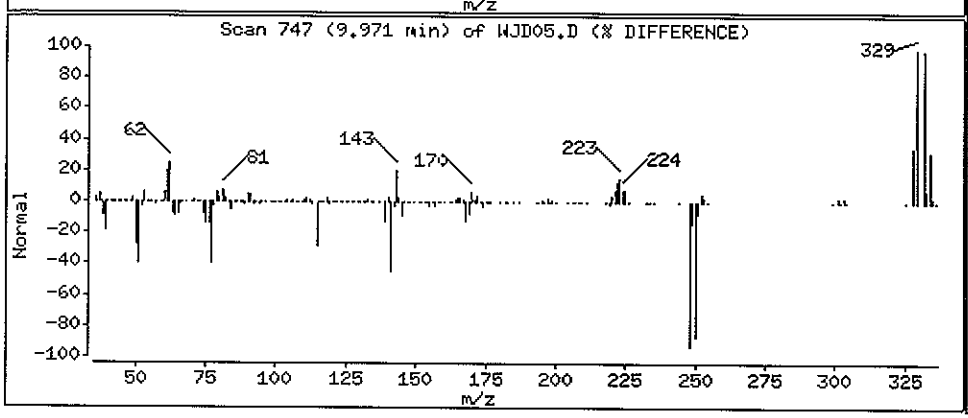
58 4-Bromophenyl-phenylether

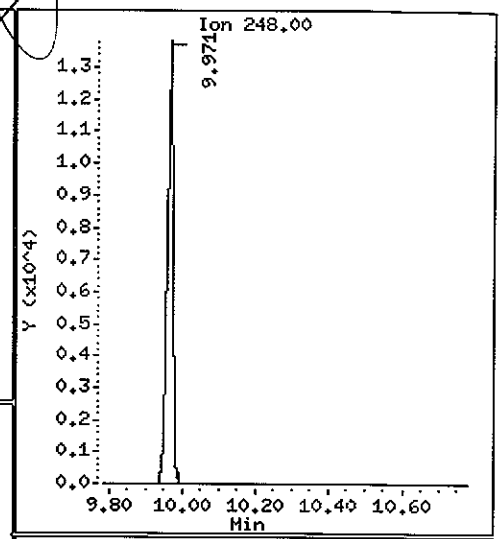
Concentration: 2.1912 ug/L

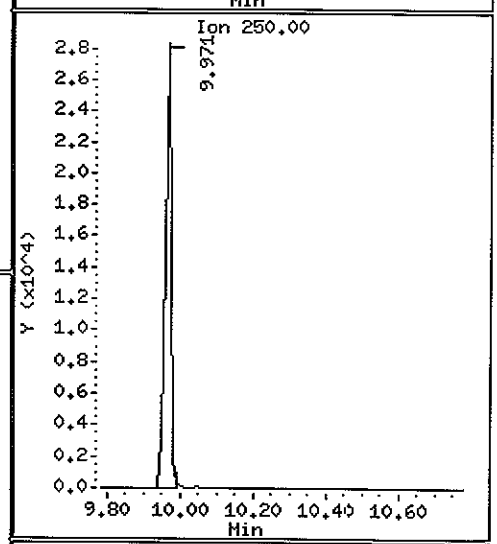


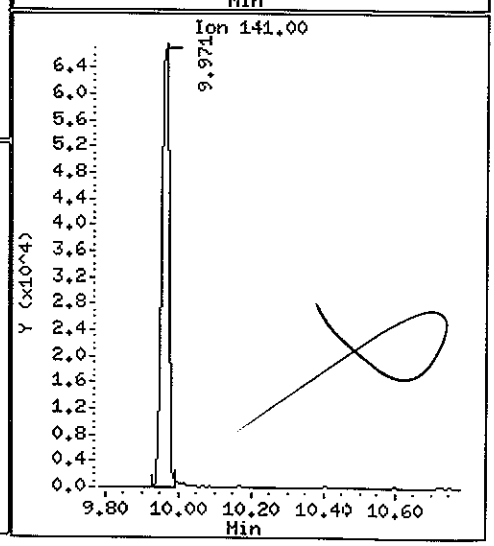












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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0

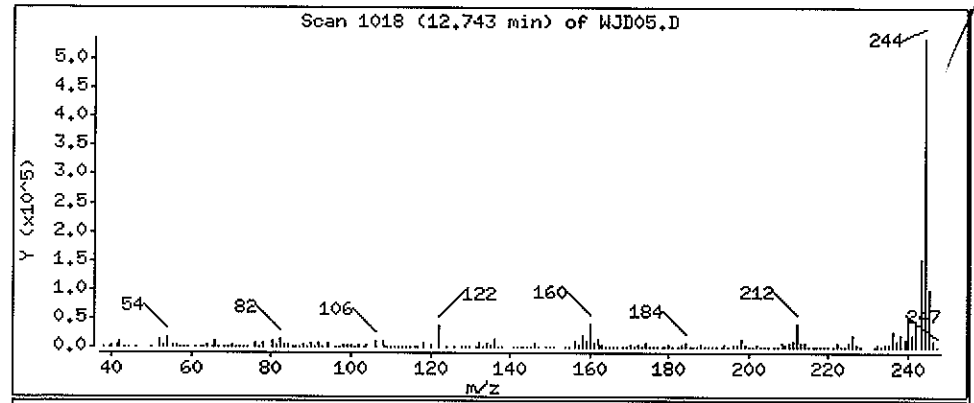
Operator: BVD

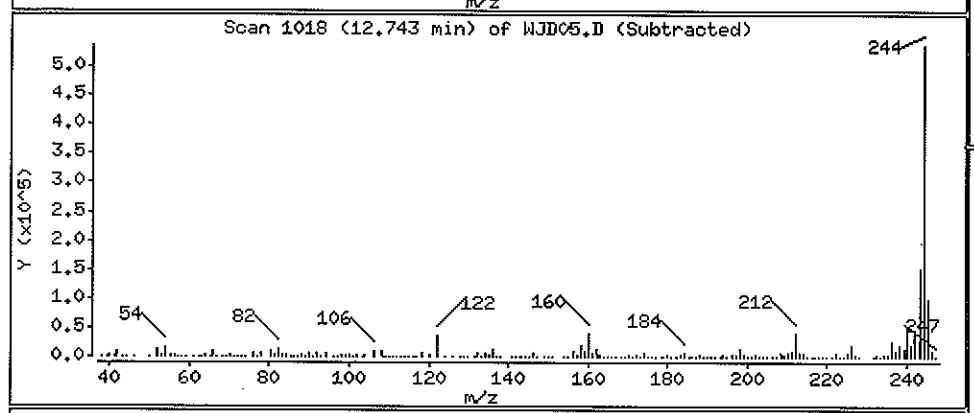
Column phase: Xti 5 x .5 u

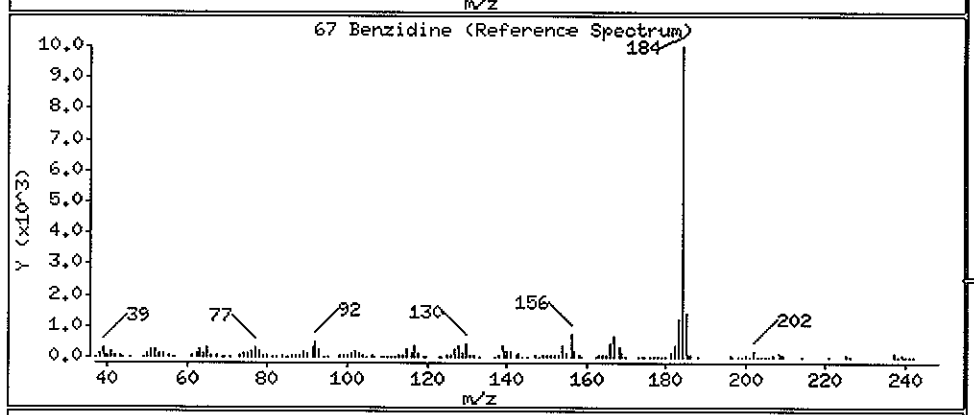
Column diameter: 0.25

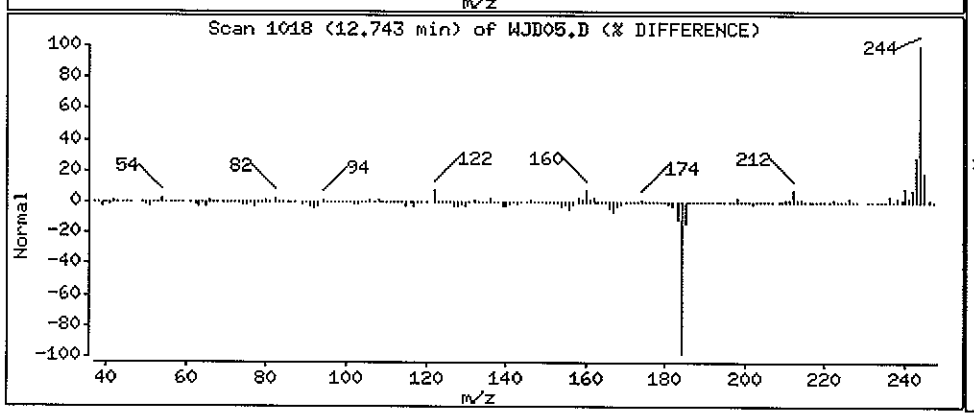
67 Benzidine

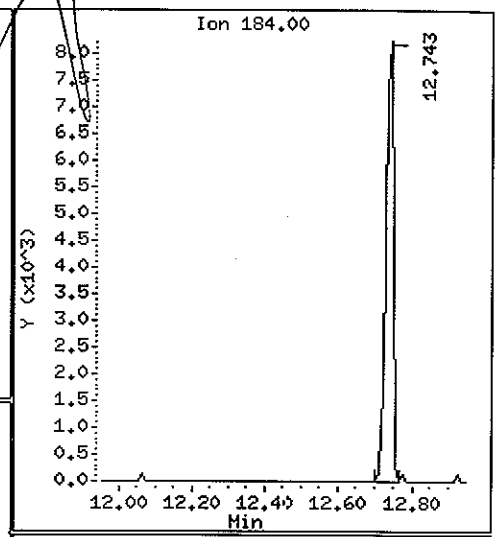
Concentration: 4.4252 ug/L

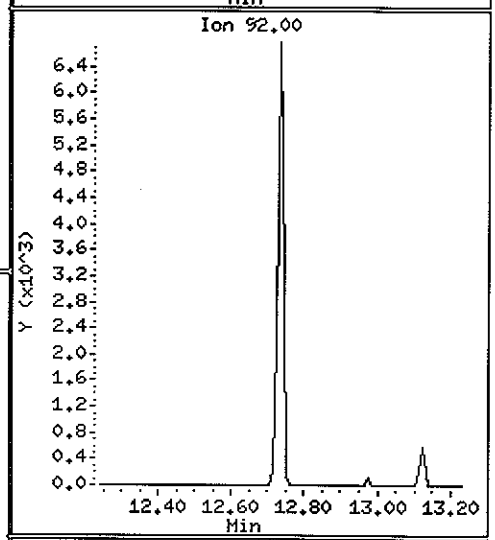


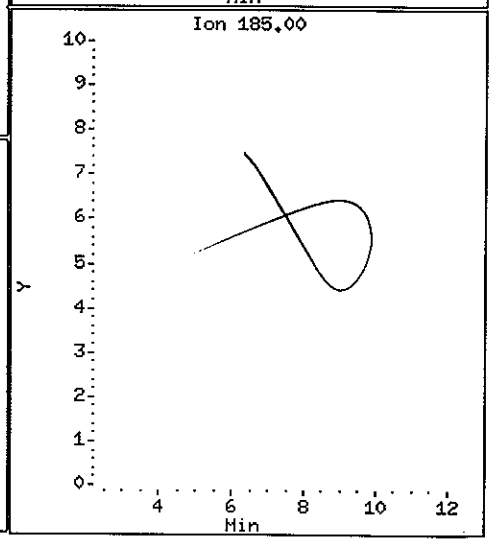












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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

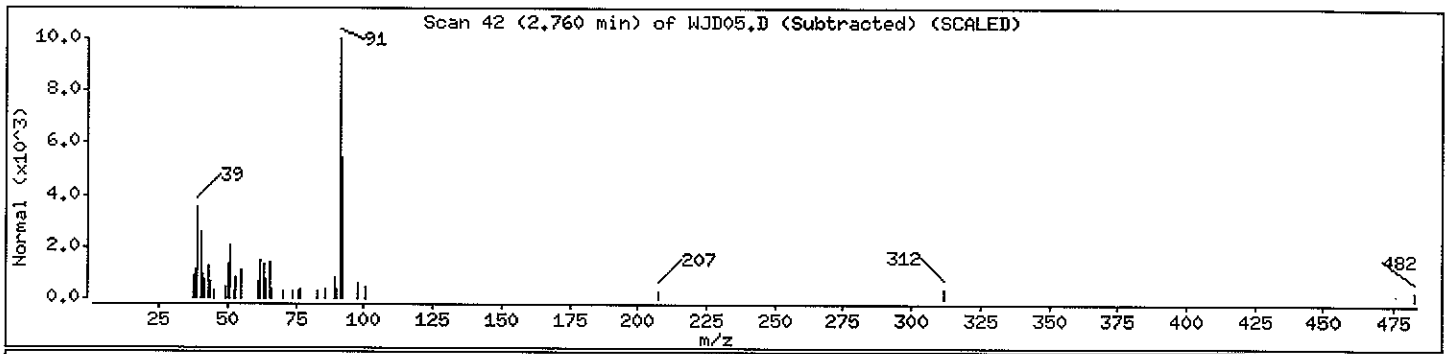
Volume Injected (uL): 1.0

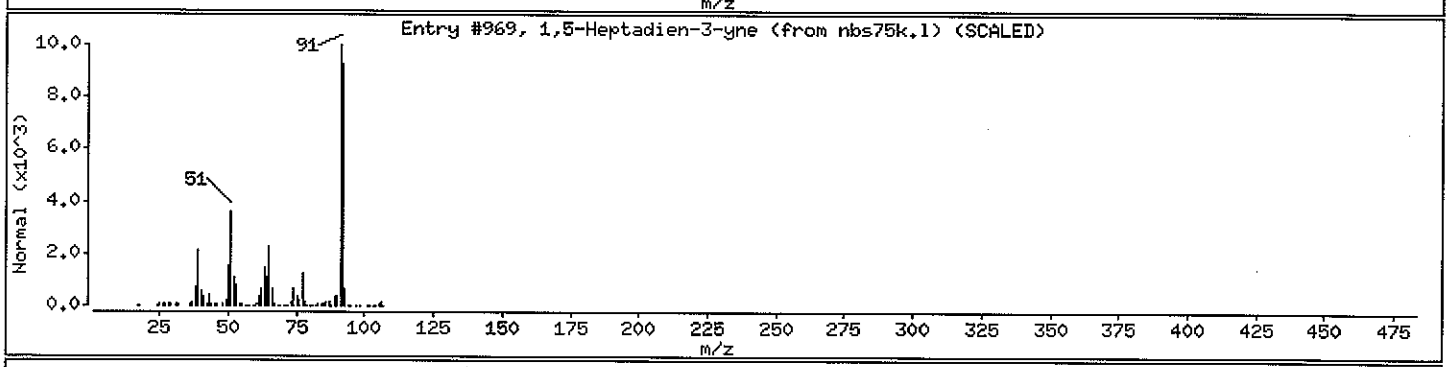
Operator: BVD

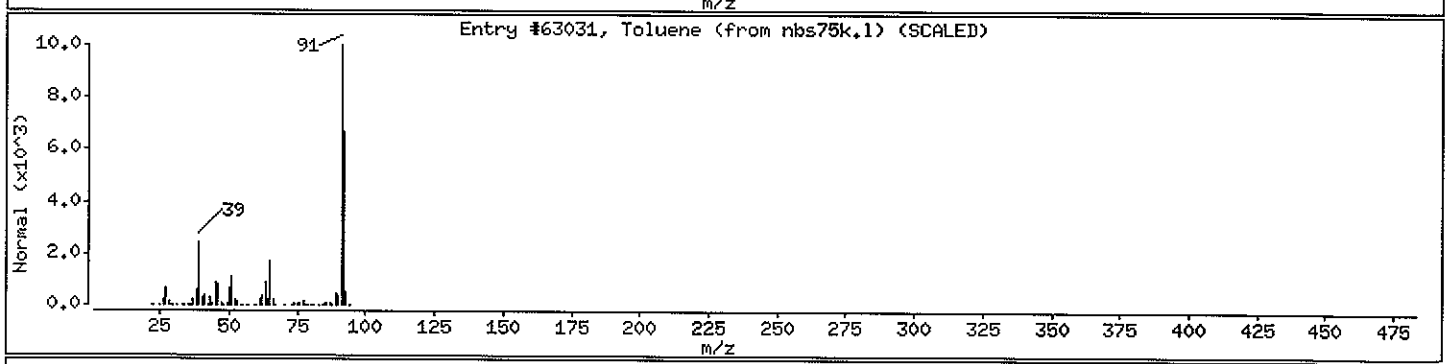
Column phase: Xti 5 x .5 u

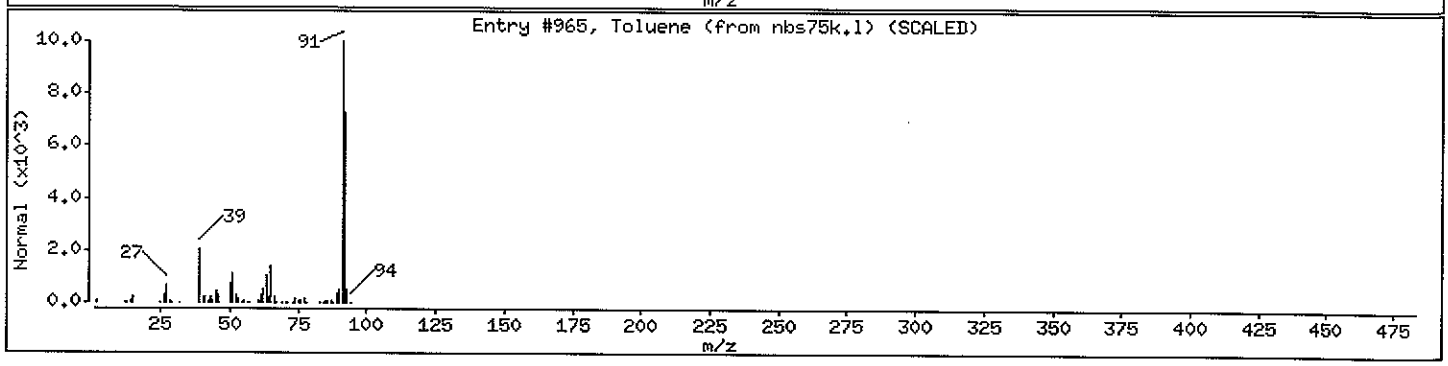
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,5-Heptadien-3-yne	3511-27-1	nbs75k.l	969	46	C7H8	92
Toluene	108-88-3	nbs75k.l	63031	38	C7H8	92
Toluene	108-88-3	nbs75k.l	965	38	C7H8	92









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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

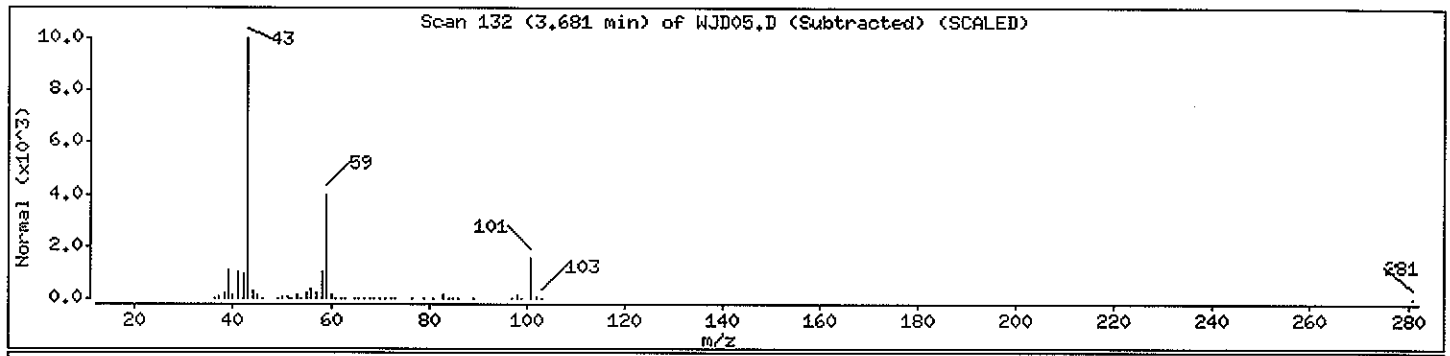
Volume Injected (uL): 1.0

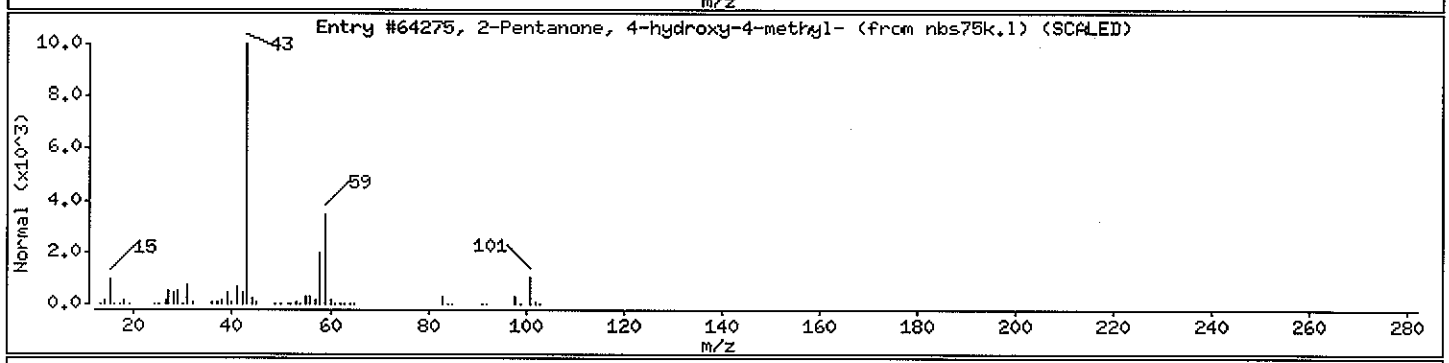
Operator: BVD

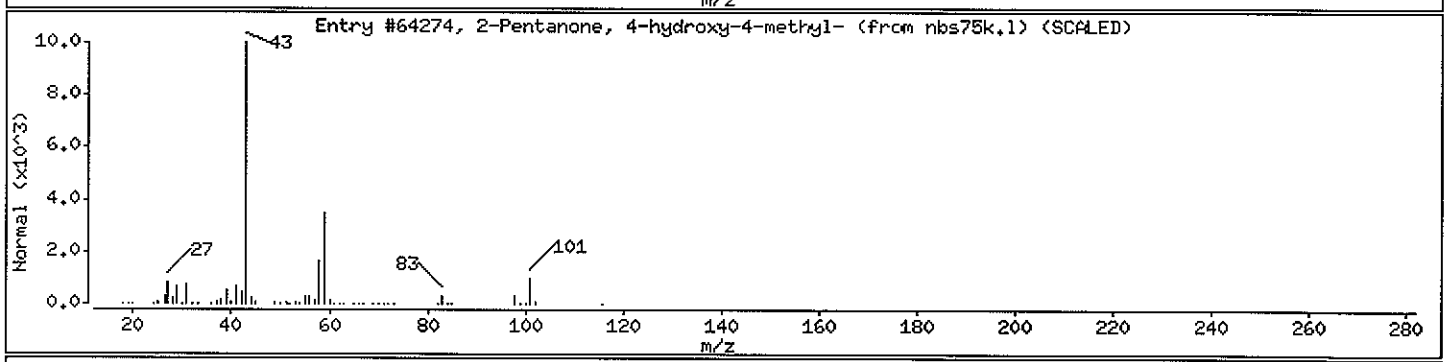
Column phase: Xti 5 x .5 u

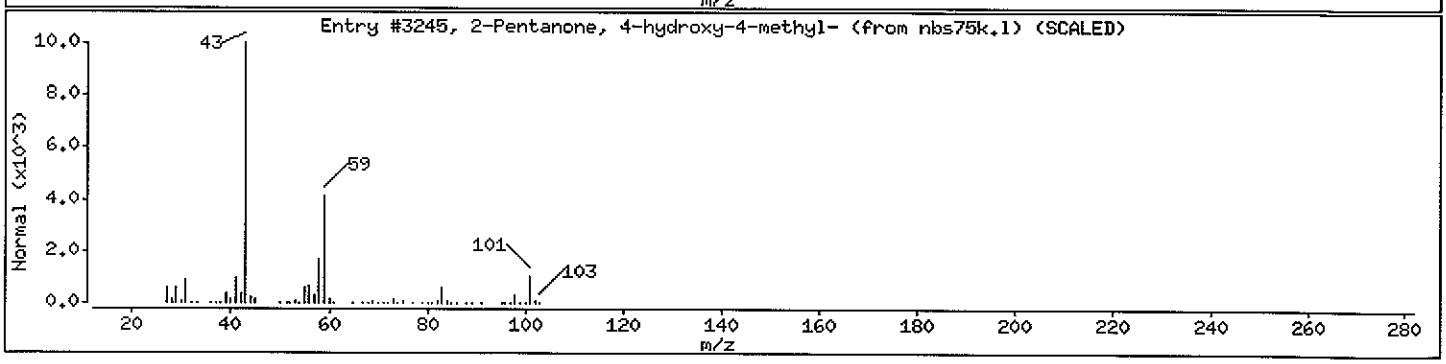
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	3245	36	C6H12O2	116









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Date : 13-OCT-2004 12:49

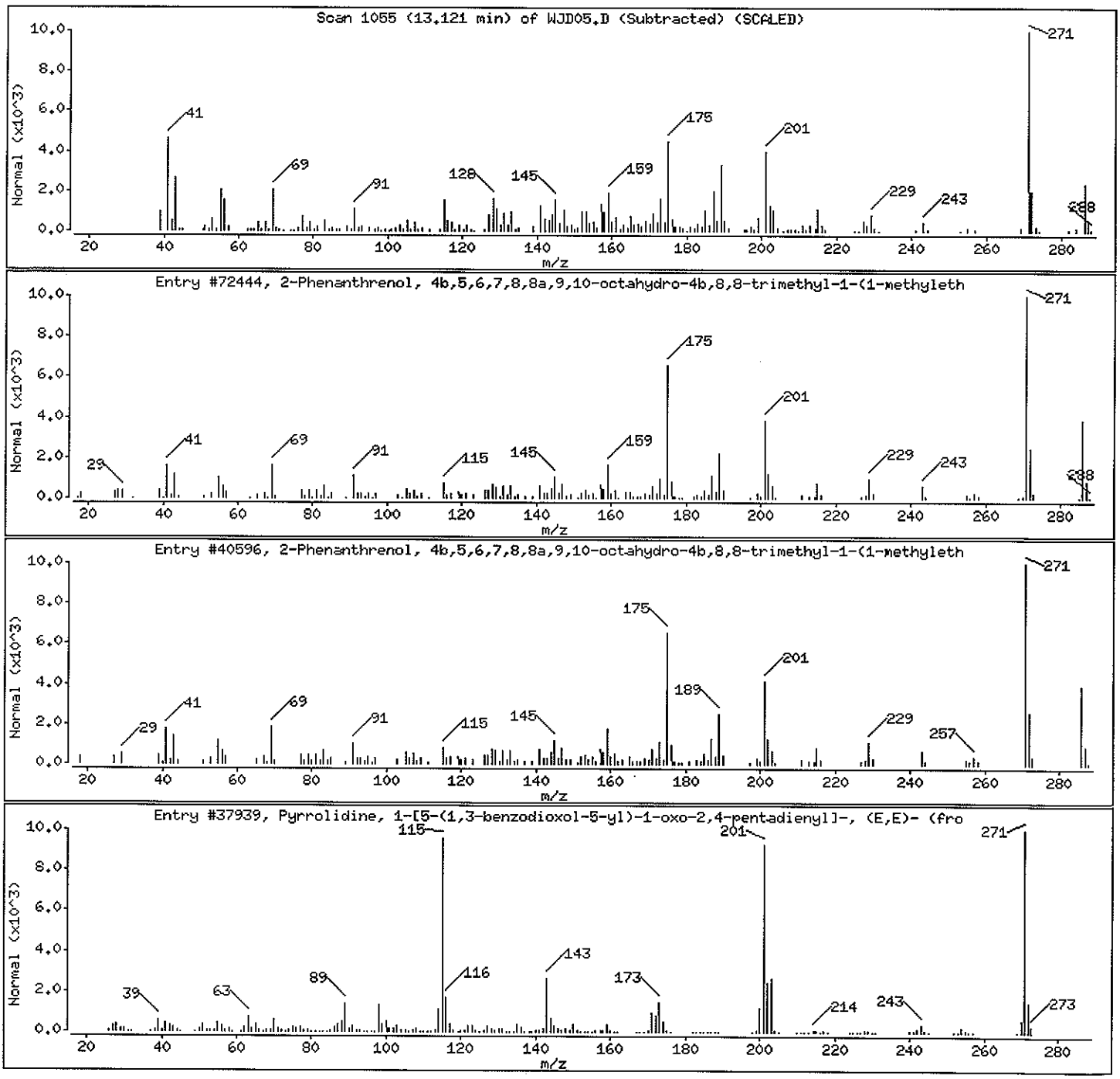
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	nbs75k.l	72444	93	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	nbs75k.l	40596	60	C20H30O	286
Pyrrolidine, 1-[5-(1,3-benzodioxol-5-yl)	25924-78-1	nbs75k.l	37939	45	C16H17NO3	271



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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

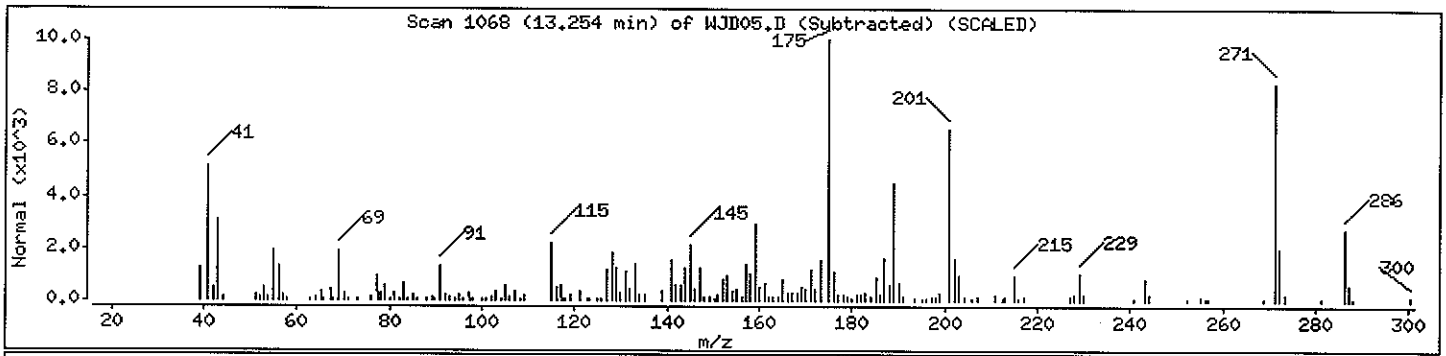
Volume Injected (uL): 1.0

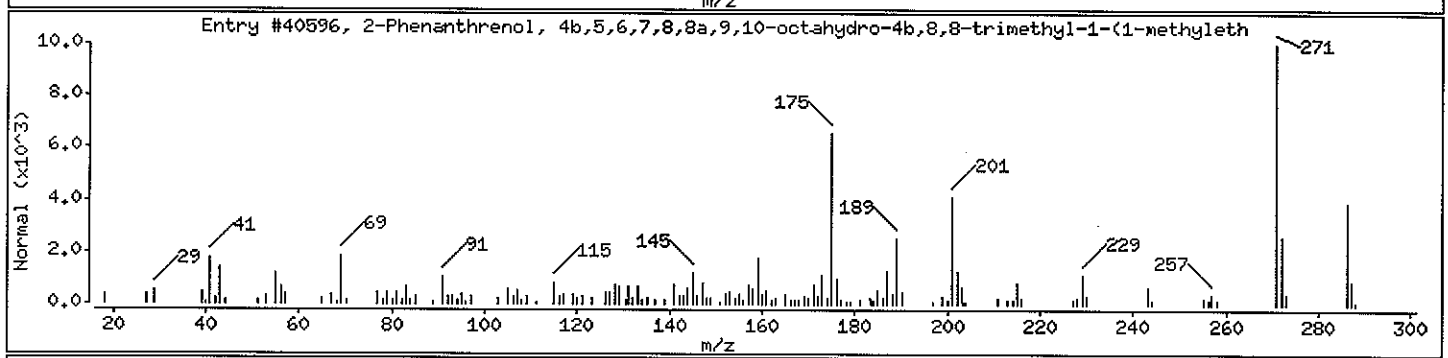
Operator: BVD

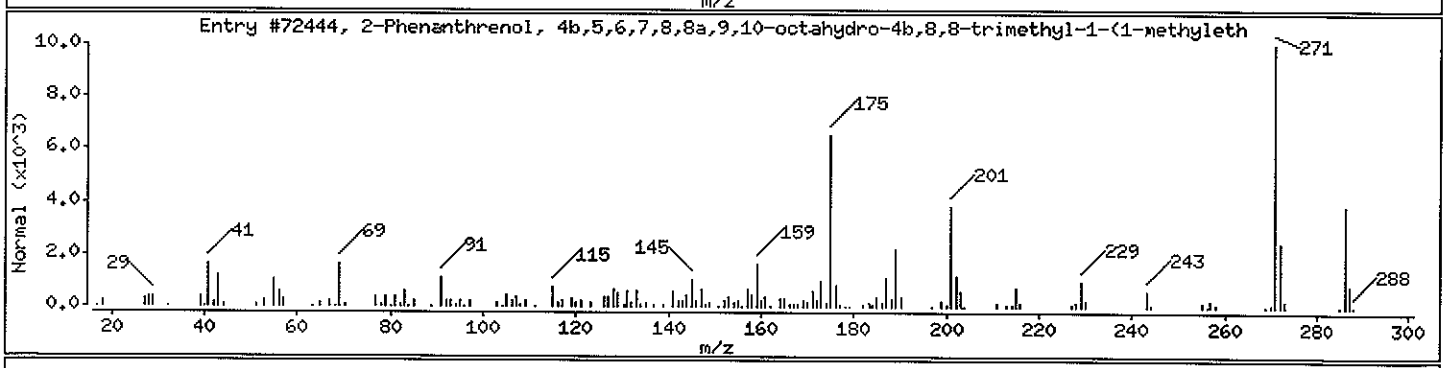
Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	nbs75k.l	40596	95	C20H30O	286
2-Phenanthrenol, 4b,5,6,7,8,8a,9,10-octa	511-15-9	nbs75k.l	72444	91	C20H30O	286







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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

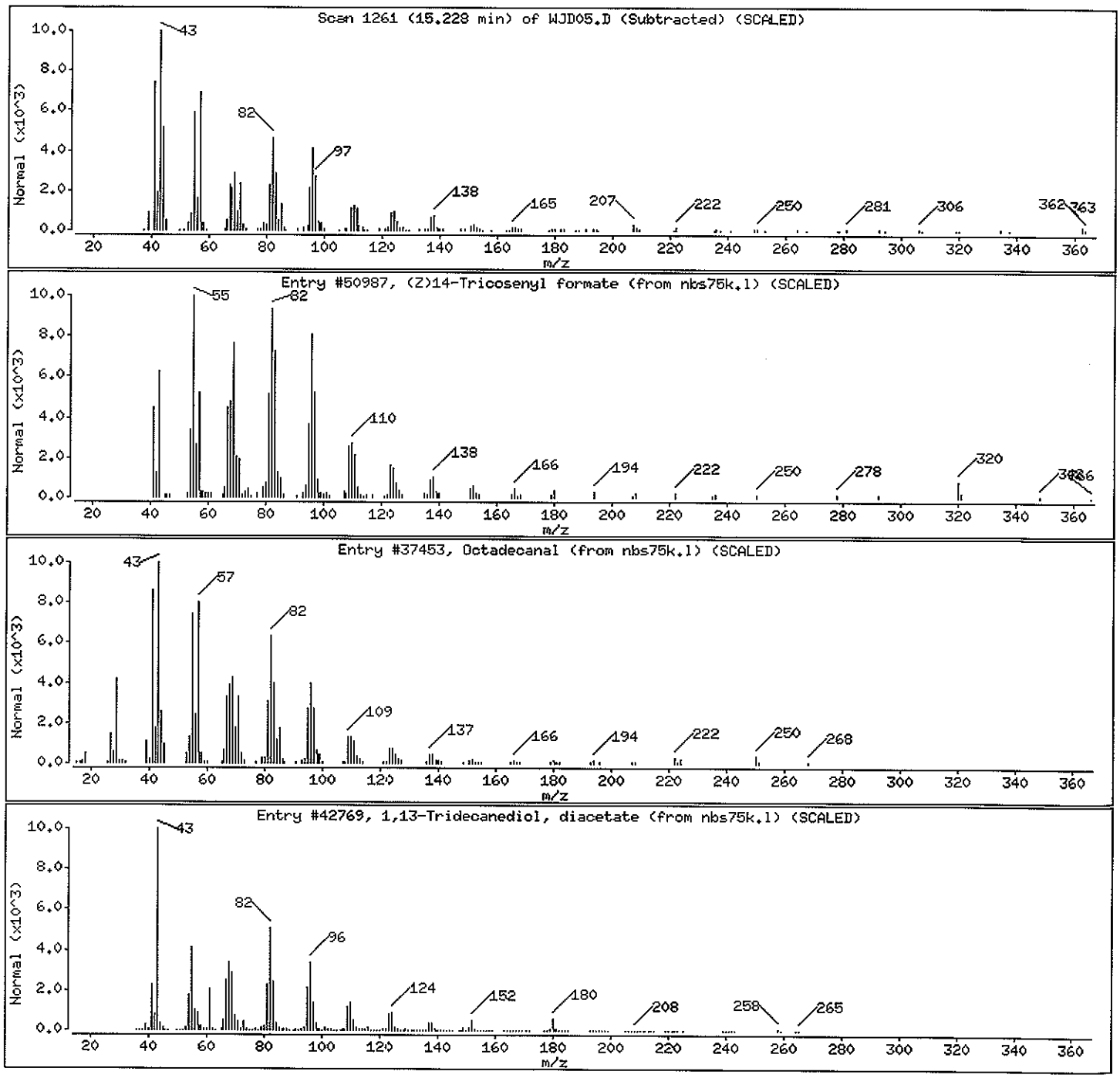
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(Z)14-Tricosenyl formate	77899-10-6	nbs75k.l	50987	76	C24H4602	366
Octadecanal	638-66-4	nbs75k.l	37453	58	C18H360	268
1,13-Tridecanediol, diacetate	42236-70-4	nbs75k.l	42769	58	C17H3204	300



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Date : 13-OCT-2004 12:49

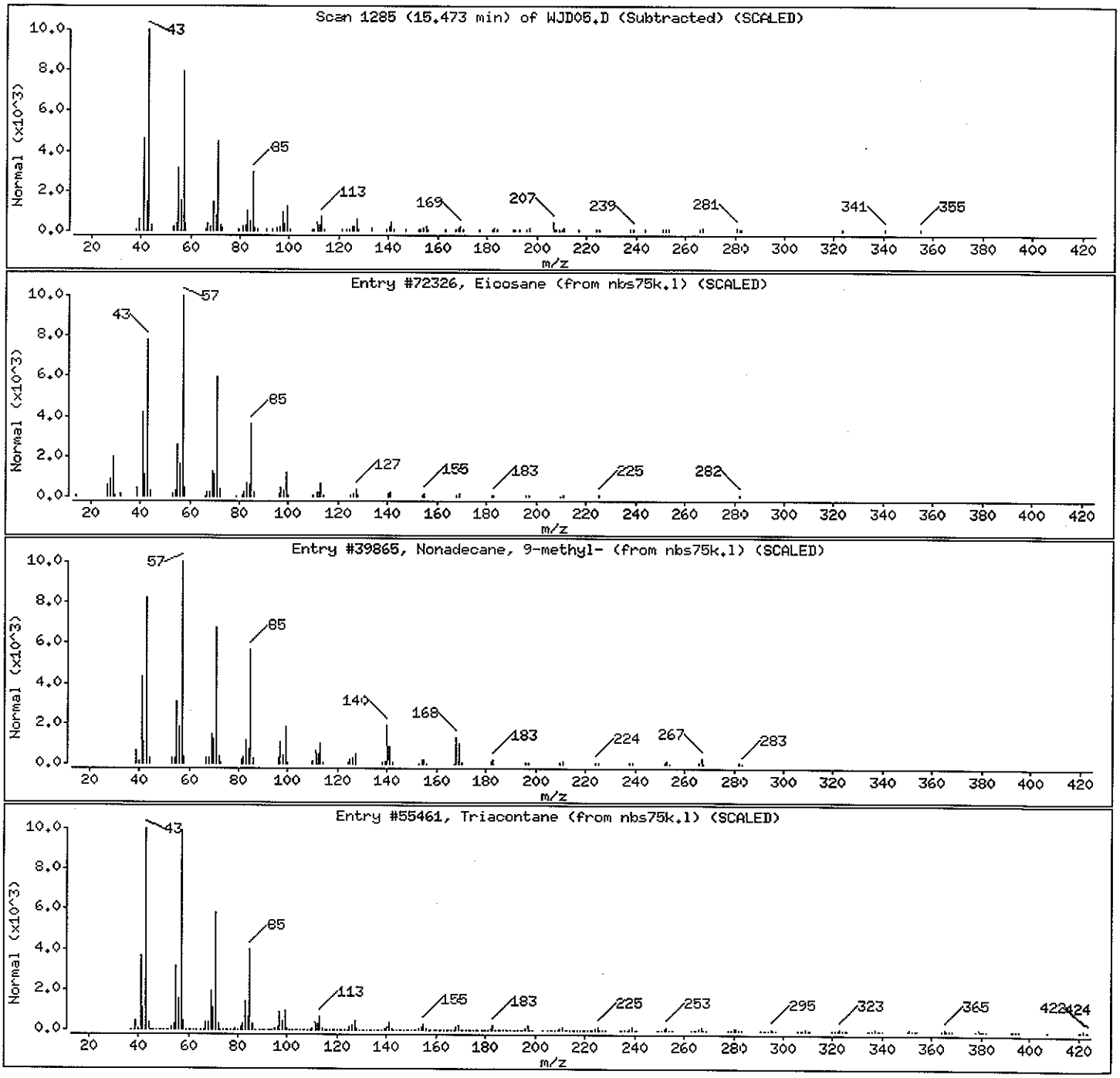
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

Sample Info: S,175141-001

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Eicosane	112-95-8	nbs75k.l	72326	96	C20H42	282
Nonadecane, 9-methyl-	13287-24-6	nbs75k.l	39865	94	C20H42	282
Triacontane	638-68-6	nbs75k.l	55461	91	C30H62	422



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Date : 13-OCT-2004 12:49

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-001

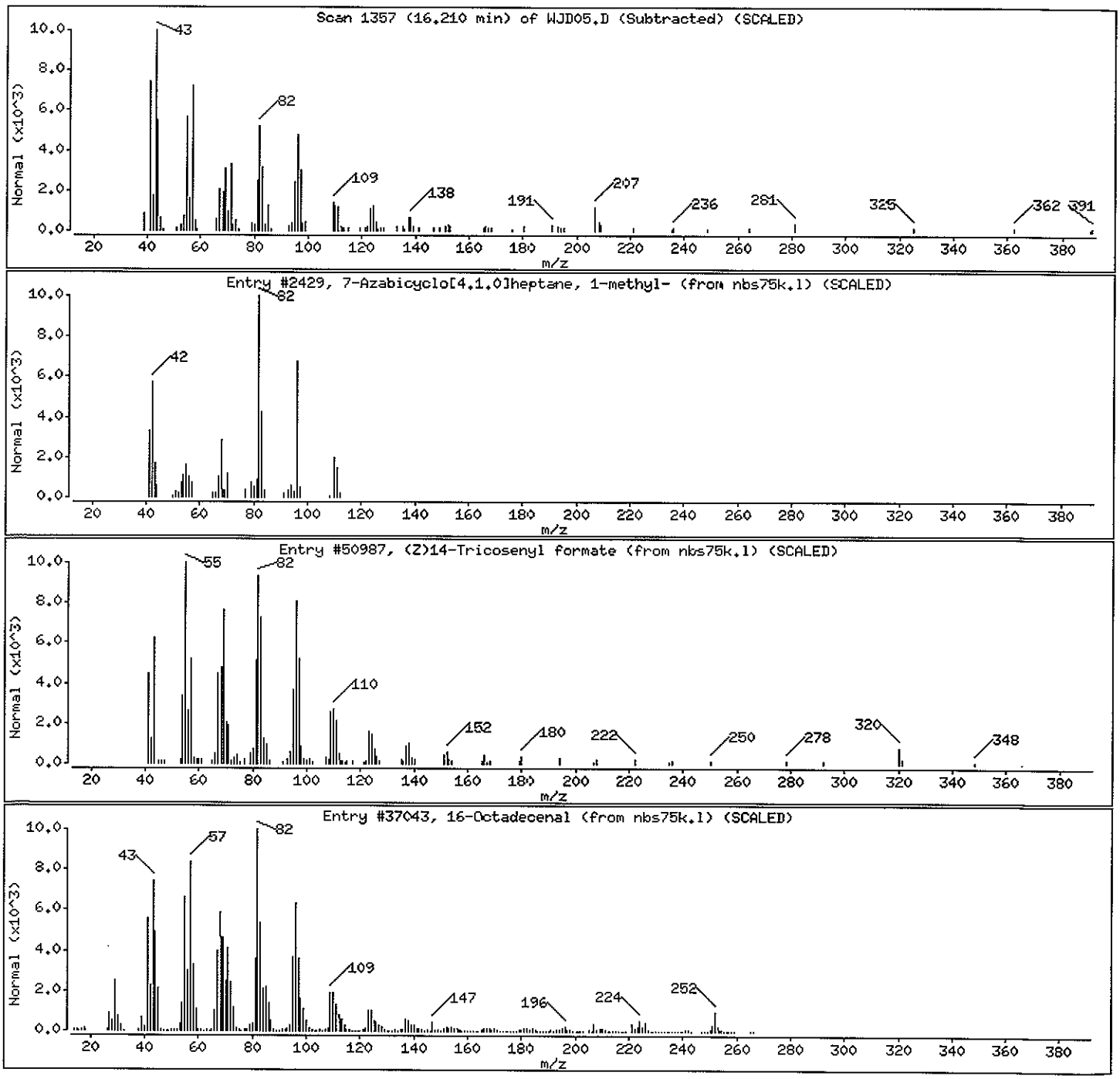
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
7-Azabicyclo[4.1.0]heptane, 1-methyl-	25022-25-7	nbs75k.l	2429	60	C7H13N	111
(Z)14-Tricosenyl formate	77899-10-6	nbs75k.l	50987	60	C24H46O2	366
16-Octadecenal	56554-87-1	nbs75k.l	37043	53	C18H34O	266



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Date : 13-OCT-2004 12:49

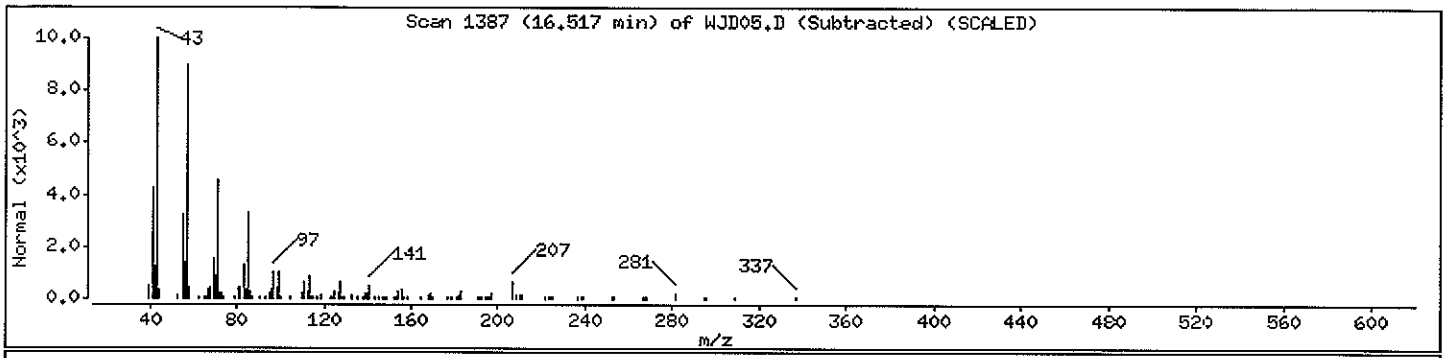
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

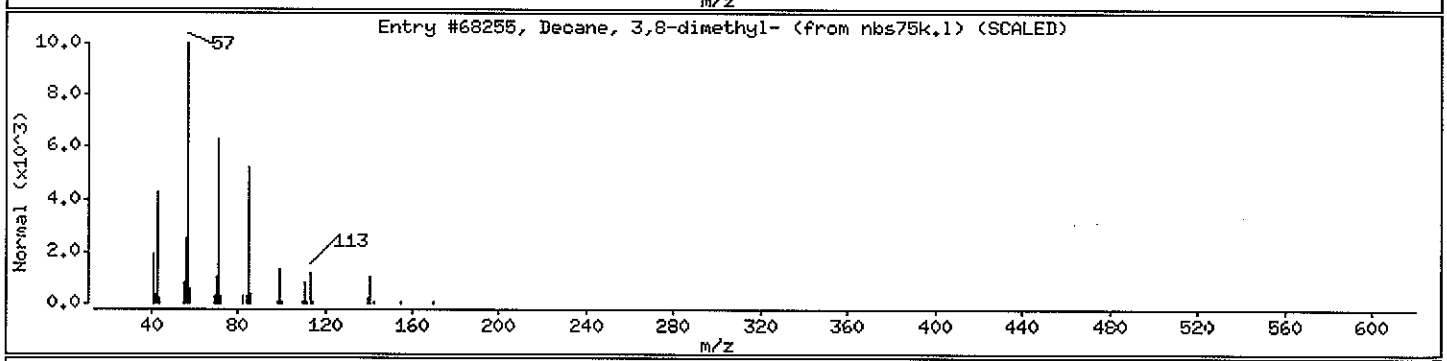
Sample Info: S,175141-001

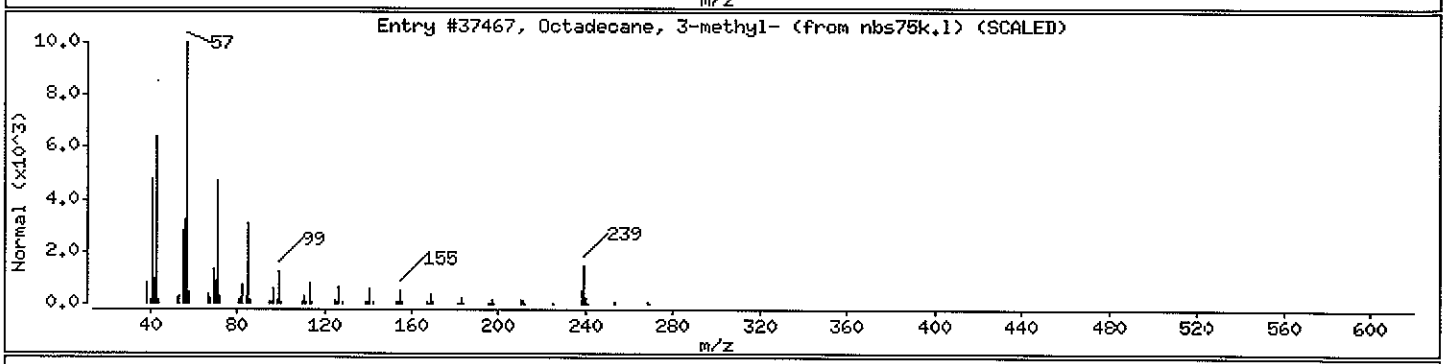
Volume Injected (uL): 1.0 | Operator: BVD

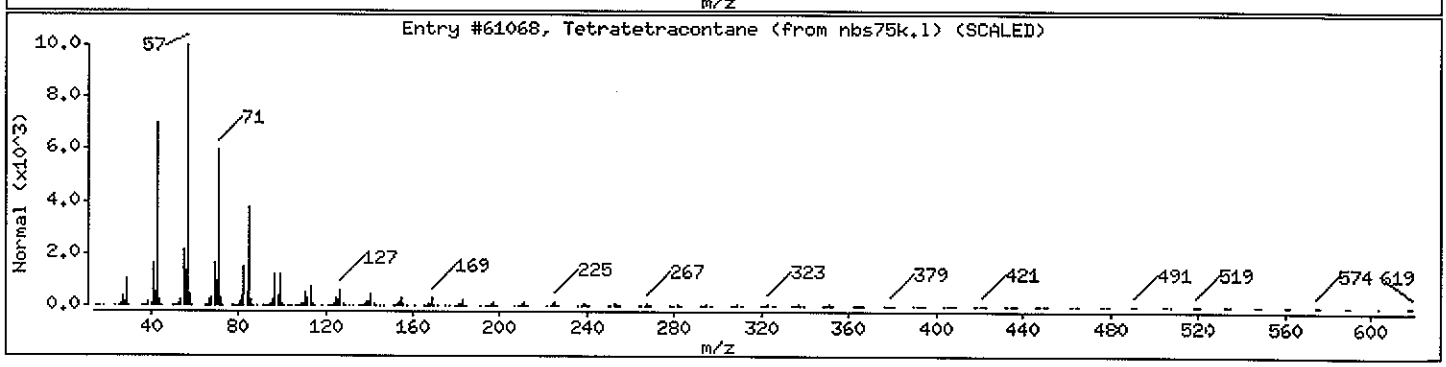
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 3,8-dimethyl-	17312-55-9	nbs75k.l	68255	93	C12H26	170
Octadecane, 3-methyl-	6561-44-0	nbs75k.l	37467	93	C19H40	268
Tetratetracontane	7098-22-8	nbs75k.l	61068	90	C44H90	619









SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 534413911004	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: wjd04	Batchnum	: 95302	Injected	: 13-OCT-2004 12:13
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534400909001	Caldate	: 04-OCT-2004	Caltype	:

Prep: 29.88 g --> 1.0 ml = 0.03347 ml/g PDF

Analyte	Result	RTS	RL	B=xja04	Flags
N-Nitrosodimethylamine	ND		330		
Phenol	ND		330		
bis(2-Chloroethyl)ether	ND		330		
2-Chlorophenol	ND		330		
1,3-Dichlorobenzene	ND		330		
1,4-Dichlorobenzene	ND		330		
Benzyl alcohol	ND		330		
1,2-Dichlorobenzene	ND		330		
2-Methylphenol	ND		330		
bis(2-Chloroisopropyl) ether	ND		330		
4-Methylphenol	ND		330		
N-Nitroso-di-n-propylamine	ND		330		
Hexachloroethane	ND		330		
Nitrobenzene	ND		330		
Isophorone.....	480	-0.327	330		x
2-Nitrophenol	ND		670		
2,4-Dimethylphenol	ND		330		
Benzoic acid	ND		1700		
bis(2-Chloroethoxy)methane	ND		330		
2,4-Dichlorophenol	ND		330		
1,2,4-Trichlorobenzene	ND		330		
Naphthalene	ND		330		
4-Chloroaniline	ND		330		
Hexachlorobutadiene	ND		330		
4-Chloro-3-methylphenol	ND		330		
2-Methylnaphthalene	ND		330		
Hexachlorocyclopentadiene	ND		1700		
2,4,6-Trichlorophenol	ND		330		
2,4,5-Trichlorophenol	ND		330		
2-Chloronaphthalene	ND		330		
2-Nitroaniline	ND		670		
Dimethylphthalate	ND		330		
Acenaphthylene	ND		330		
2,6-Dinitrotoluene.....	480	0.175	330		x
3-Nitroaniline	ND		670		v-
Acenaphthene	ND		670		
2,4-Dinitrophenol	ND		1700		
4-Nitrophenol	ND		670		
Dibenzofuran	ND		330		
2,4-Dinitrotoluene.....	370	-0.306	330		x
Diethylphthalate	ND		330		

-=low bias v=ICV x=false positive

Analyst: _____ Date: 10/15/04 Reviewer: _____ Date: 10/15/04

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum:	175141-009	Cident	: DUP100704A
Seqnum	: 534413911004	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: wjd04	Batchnum	: 95302	Injected	: 13-OCT-2004 12:13
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534400909001	Caldate	: 04-OCT-2004	Caltype	:

Analyte	Result	RTS	RL	B=xja04	Flags
Fluorene	ND		330		
4-Chlorophenyl-phenylether	ND		330		
4-Nitroaniline	ND		670		v-
4,6-Dinitro-2-methylphenol	ND		1700		
N-Nitrosodiphenylamine	ND		330		
Azobenzene	ND		330		
4-Bromophenyl-phenylether	ND		330		
Hexachlorobenzene	ND		330		
Pentachlorophenol	ND		670		
Phenanthrene	ND		330		
Anthracene	ND		330		
Di-n-butylphthalate	ND		330		
Fluoranthene	ND		330		
Pyrene	ND		330		
Butylbenzylphthalate	ND		330		
3,3'-Dichlorobenzidine	ND		670		
Benzo(a)anthracene	ND		67		
Chrysene	ND		330		
bis(2-Ethylhexyl)phthalate	ND		330		
Di-n-octylphthalate	ND		330		
Benzo(b)fluoranthene	ND		67		
Benzo(k)fluoranthene	ND		67		
Benzo(a)pyrene	ND		67		
Indeno(1,2,3-cd)pyrene	ND		67		
Dibenz(a,h)anthracene	ND		67		
Benzo(g,h,i)perylene	ND		330		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3347	1788	53	25-121	
Phenol-d5	3347	1785	53	24-113	
2,4,6-Tribromophenol	3347	1443	43	19-122	
Nitrobenzene-d5	1673	849.4	51	23-120	
2-Fluorobiphenyl	1673	794.4	47	30-115	
Terphenyl-d14	1673	800.0	48	18-137	

ISTD (CCV=wjd02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	219898	224751	2.21	5.47	5.46	-0.01
Naphthalene-d8	744394	796793	7.04	6.93	6.92	-0.01
Acenaphthene-d10	515724	564130	9.39	9.02	9.02	0.00
Phenanthrene-d10	813032	982688	20.87	10.80	10.79	-0.01
Chrysene-d12	837690	802981	-4.14	13.99	13.98	-0.01
Perylene-d12	588648	587340	-0.22	15.75	15.73	-0.02

-=low bias v=ICV x=false positive

Analyst: _____ Date: _____ Reviewer: _____ Date: _____

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D
Report Date: 13-Oct-2004 13:13

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 13-OCT-2004 12:13 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : S,175141-009
Misc Info : 95302,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\6PTBNA4.m
Meth Date : 13-Oct-2004 11:51 tapsvc Quant Type: ISTD
Cal Date : 04-OCT-2004 17:46 Cal File: WJ412.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	4.085	4.033	(0.749)	323622	53.4287	53.4286
$ 4 Phenol-d5	99	5.128	5.107	(0.940)	352850	53.3271	53.3271
6 Aniline	66	5.128	5.220	(0.940)	35832	4.59148	4.5914(a)
* 10 1,4-Dichlorobenzene-d4	152	5.456	5.465	(1.000)	224751	40.0000	
17 N-Nitroso-di-n-propylamine	70	6.110	5.987	(1.120)	34975	9.88585	9.8858
$ 19 Nitrobenzene-d5	82	6.110	6.120	(0.883)	191287	25.3795	25.3795
21 Isophorone	82	6.110	6.437	(0.883)	191287	14.4608	14.4608
* 28 Naphthalene-d8	136	6.918	6.928	(1.000)	796793	40.0000	
$ 37 2-Fluorobiphenyl	172	8.227	8.237	(0.913)	471179	23.7377	23.7376
40 Dimethylphthalate	163	9.015	8.769	(1.000)	126247	5.66725	5.6672(Q)
41 2,6-Dinitrotoluene	165	9.015	8.840	(1.000)	74510	14.2258	14.2258
* 44 Acenaphthene-d10	164	9.015	9.024	(1.000)	564130	40.0000	
51 2,4-Dinitrotoluene	165	9.015	9.321	(1.000)	74510	11.1703	11.1703
$ 57 2,4,6-Tribromophenol	330	9.966	9.986	(1.106)	174299	43.1058	43.1058

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D
Report Date: 13-Oct-2004 13:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
58 4-Bromophenyl-phenylether	248	9.966	10.282	(0.923)	11964	1.80348	1.8034(aQ)
* 61 Phenanthrene-d10	188	10.795	10.804	(1.000)	982688	40.0000	
67 Benzidine	184	12.738	12.451	(0.911)	10164	4.04647	4.0464(a)
$ 69 Terphenyl-d14	244	12.738	12.747	(0.911)	523146	23.9032	23.9032
* 73 Chrysene-d12	240	13.975	13.985	(1.000)	802981	40.0000	
* 80 Perylene-d12	264	15.735	15.754	(1.000)	587340	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D
Report Date: 13-Oct-2004 13:13

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 13-OCT-2004 12:13 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : S,175141-009
Misc Info : 95302,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\6PTBNA4.m
Meth Date : 13-Oct-2004 11:51 tapsvc Quant Type: ISTD
Cal Date : 04-OCT-2004 17:46 Cal File: WJ412.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

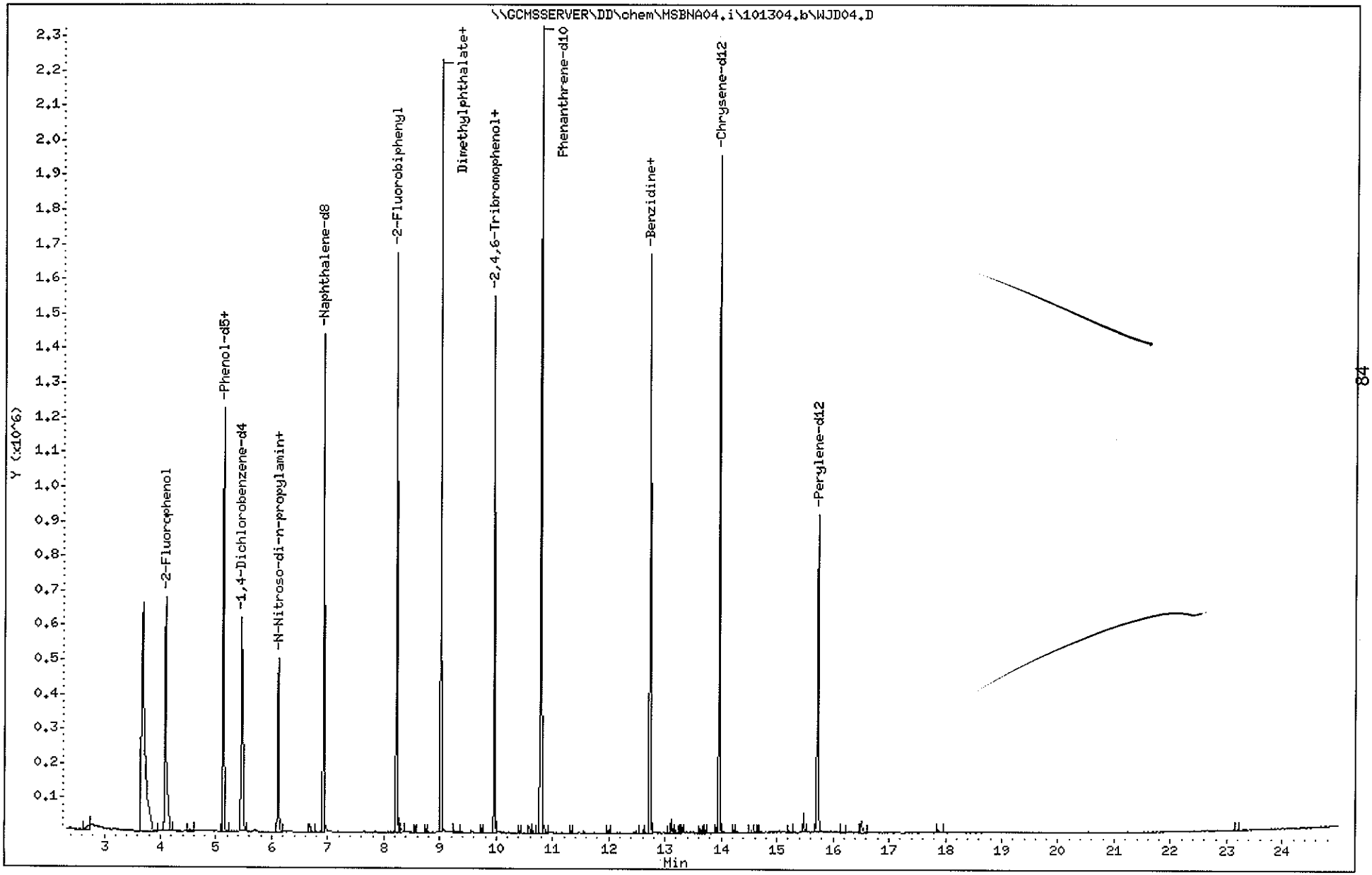
ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	5.456	1517988	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-				CAS #: 123-42-2			
3.676	2769052	72.9663739	72.9663	64	nbs75k.l	64274	10

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D
Date : 13-OCT-2004 12:13
Client ID: CURTIS&TOMPKINS
Sample Info: S,175141-009
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i

Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D

Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

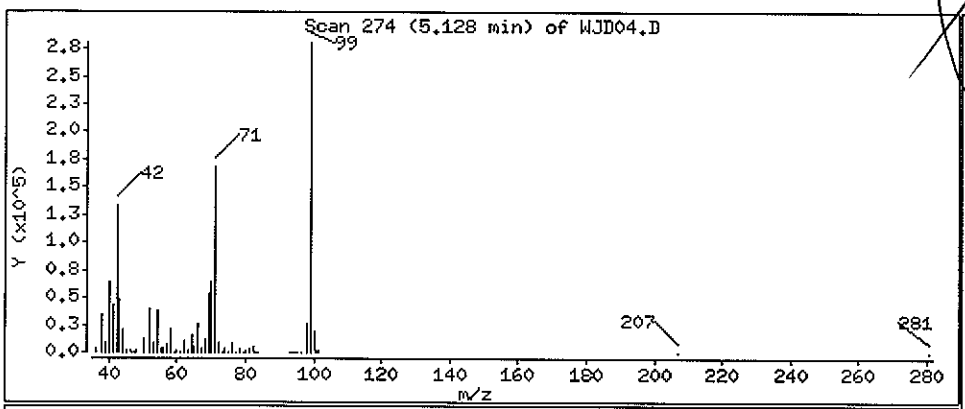
Operator: BVD

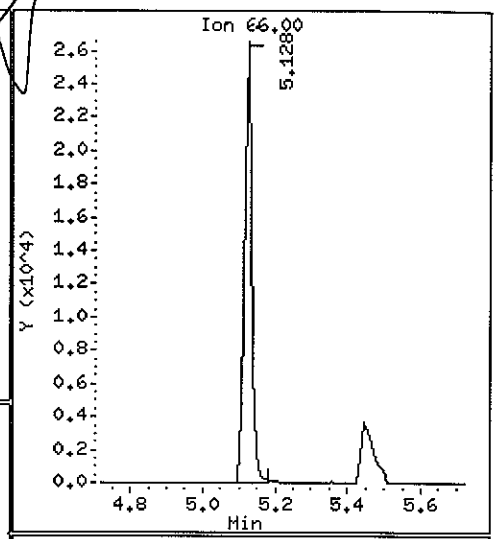
Column phase: Xti 5 x .5 u

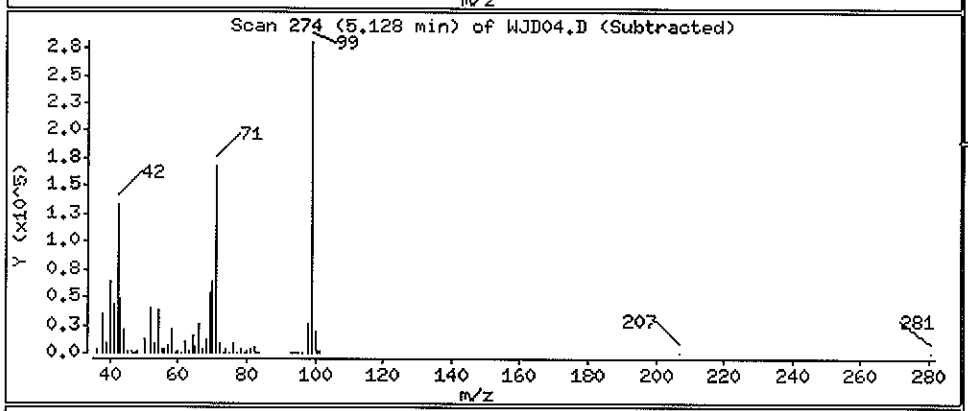
Column diameter: 0.25

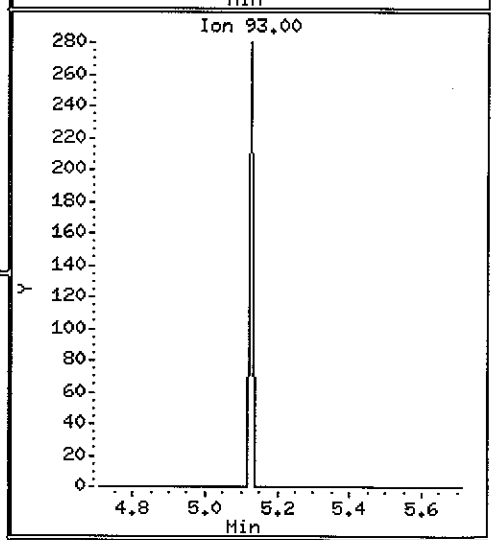
6 Aniline

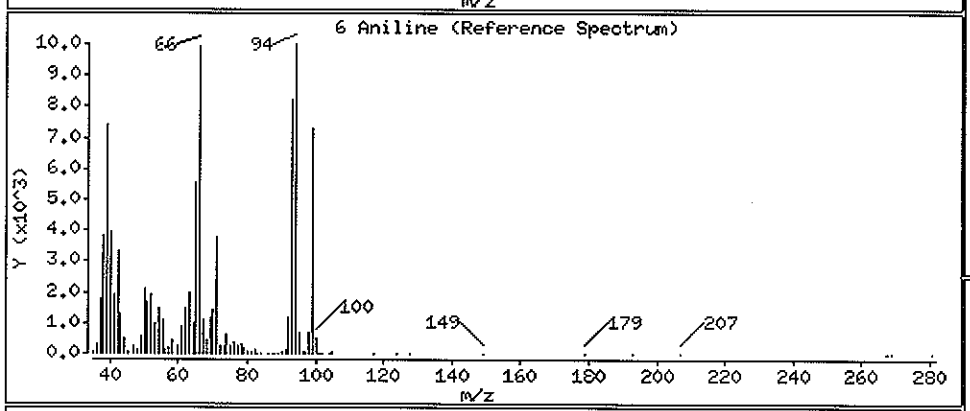
Concentration: 4.5914 ug/L

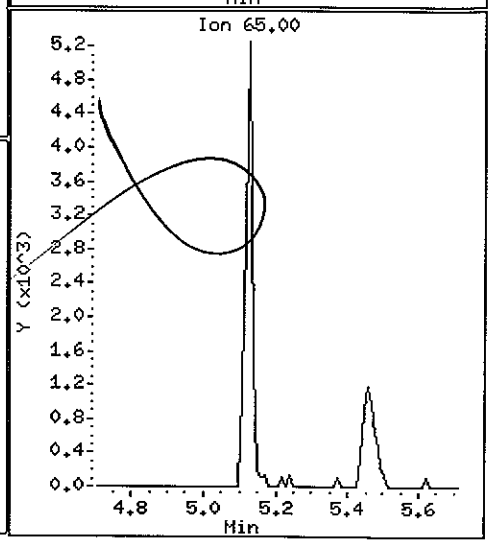


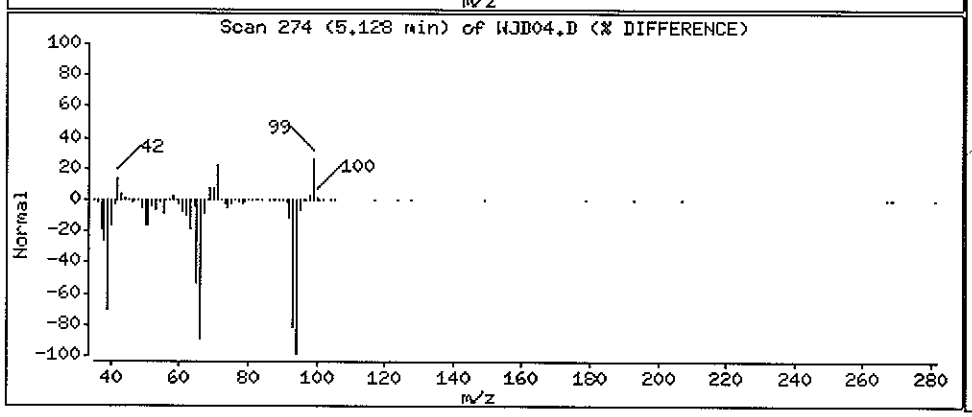












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D

Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

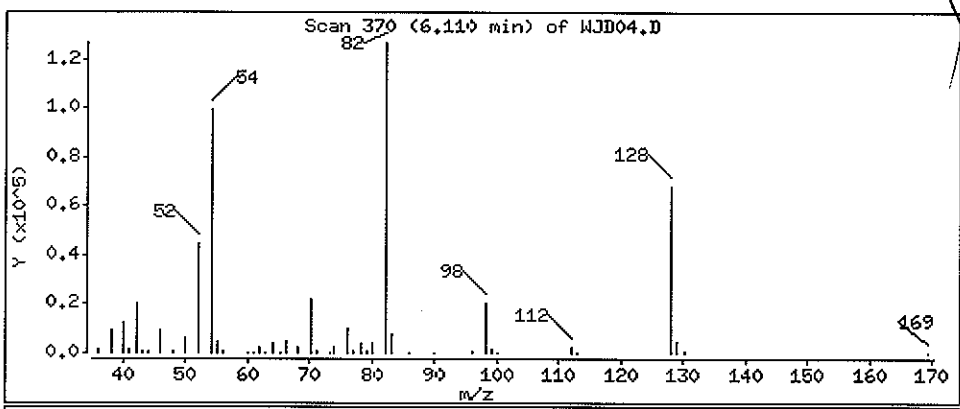
Operator: BVD

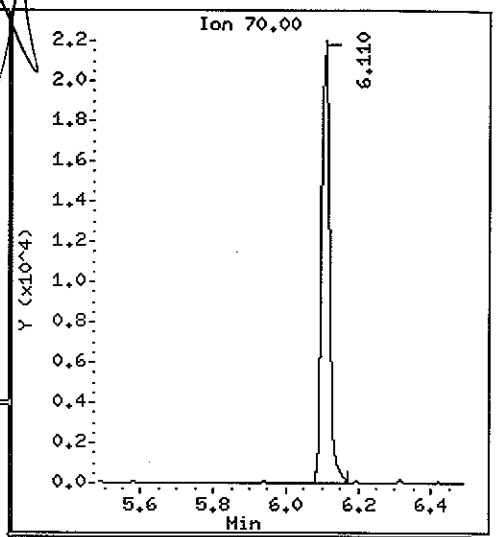
Column phase: Xti 5 x .5 u

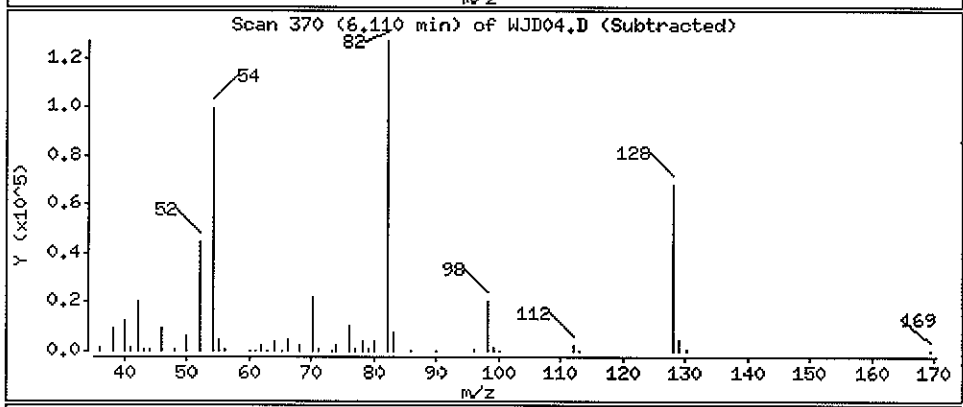
Column diameter: 0.25

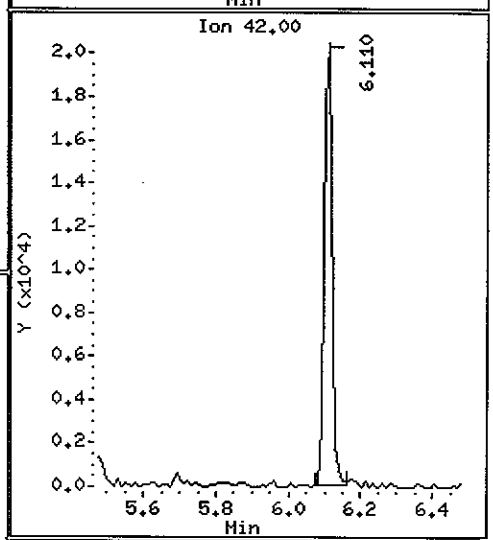
17 N-Nitroso-di-n-propylamine

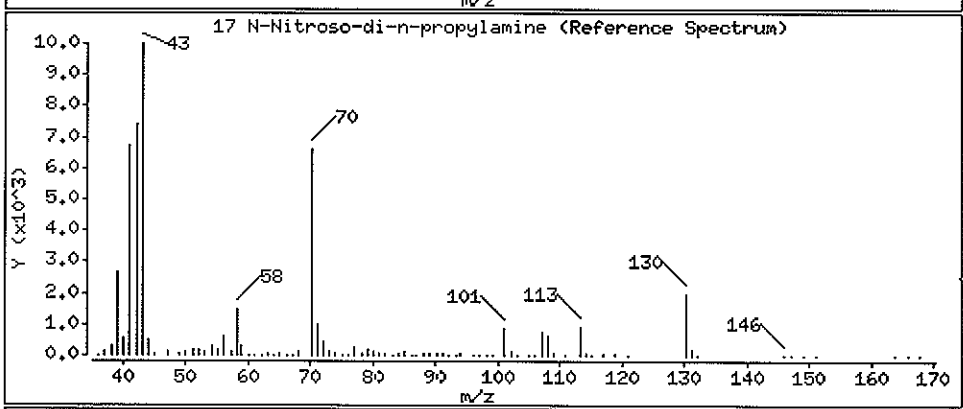
Concentration: 9.8888 ug/L

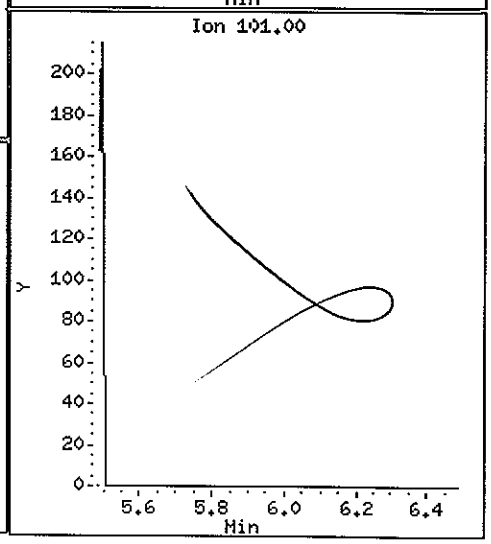


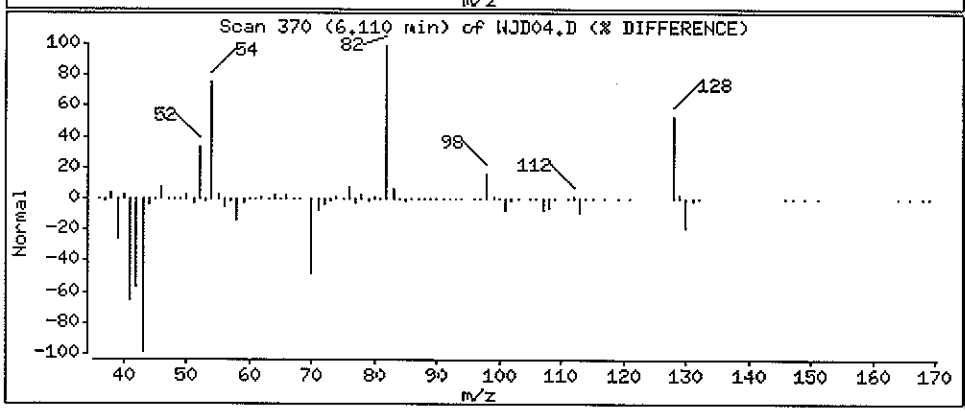












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Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

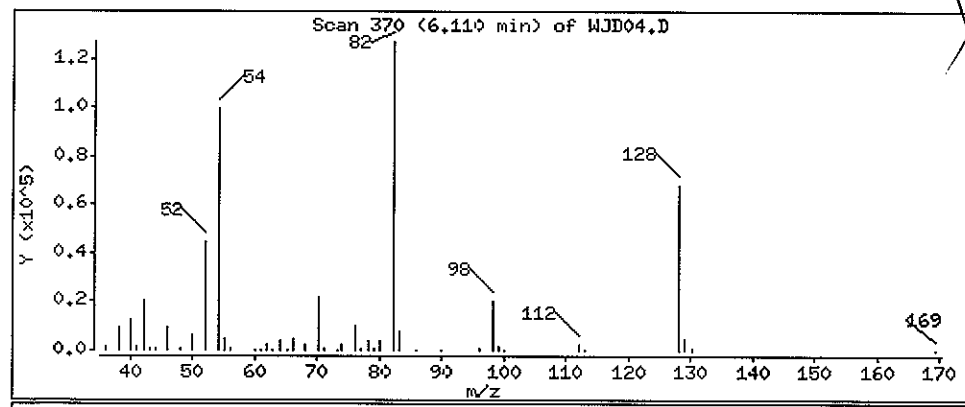
Operator: BVD

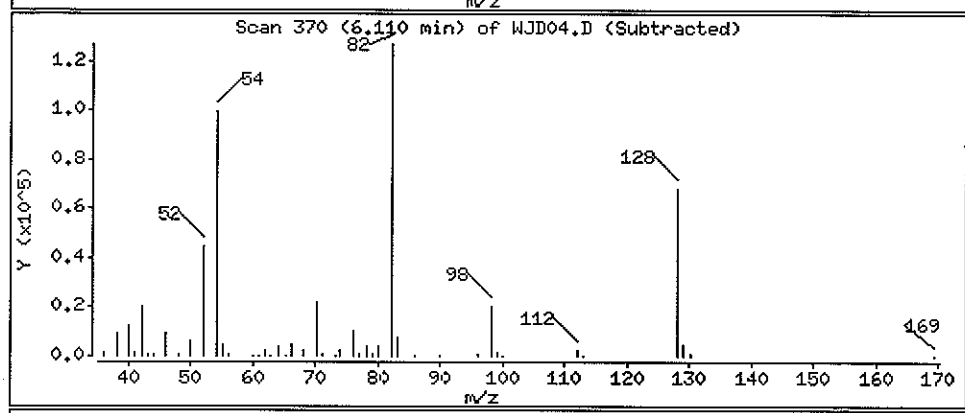
Column phase: Xti 5 x .5 u

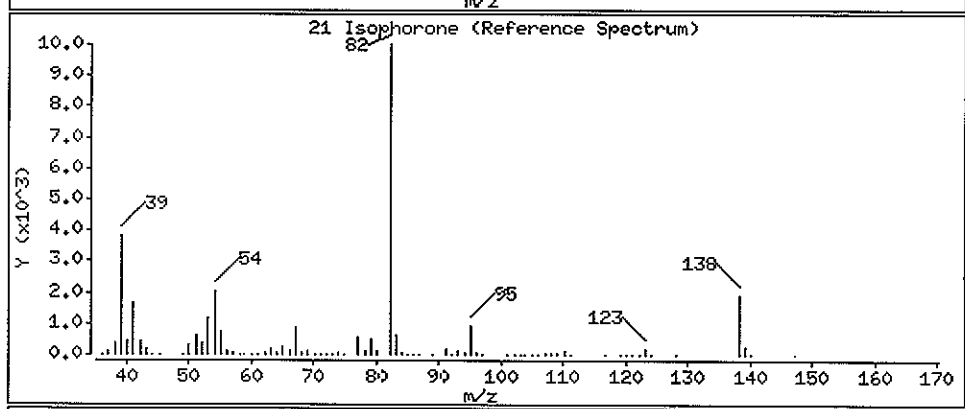
Column diameter: 0.25

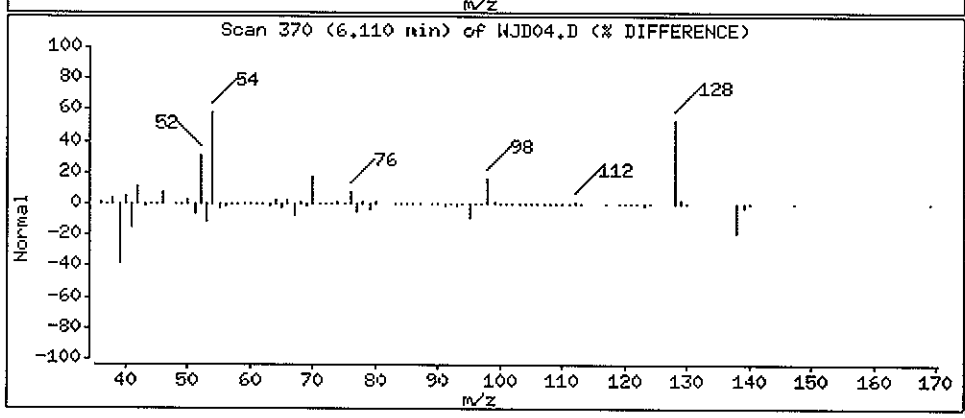
21 Isophorone

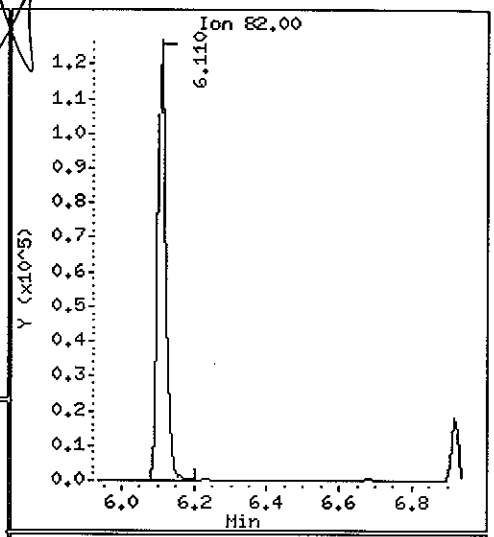
Concentration: 14.4608 ug/L

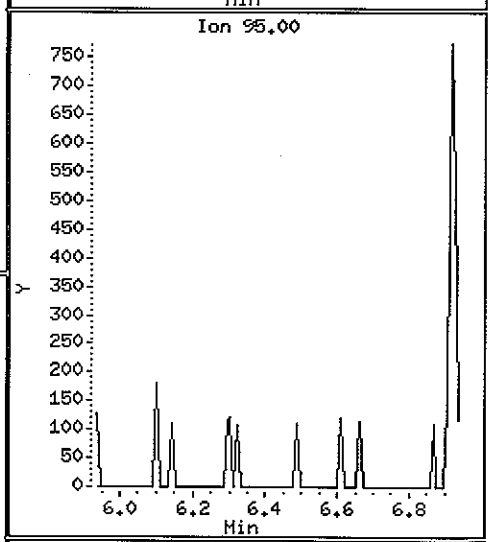


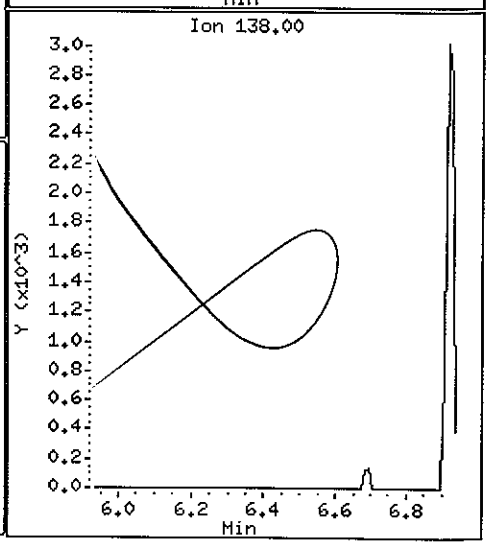












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Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

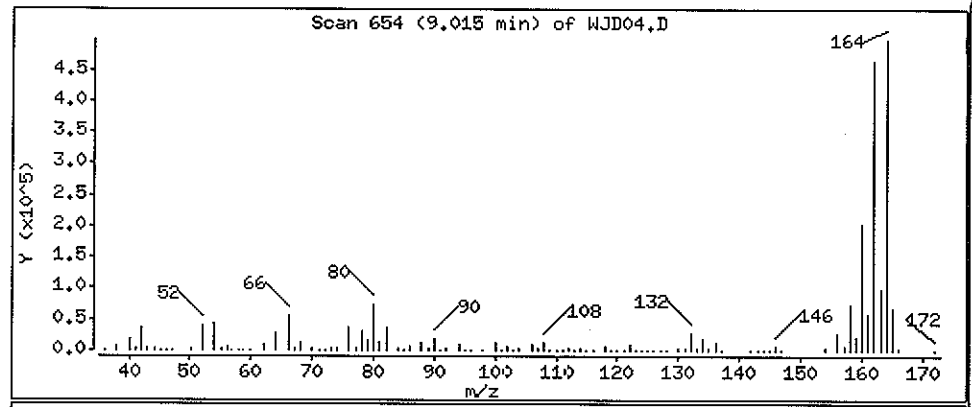
Operator: BVD

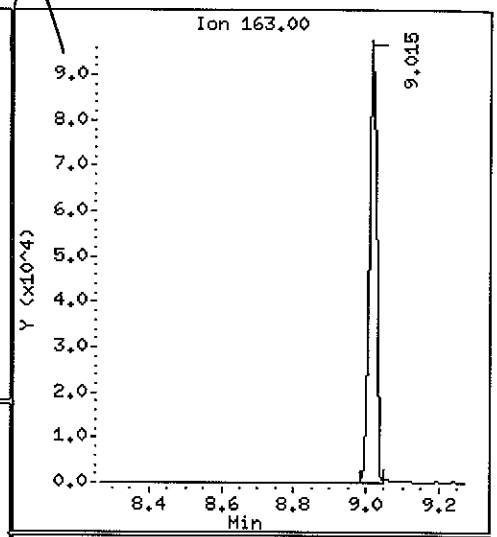
Column phase: Xti 5 x .5 u

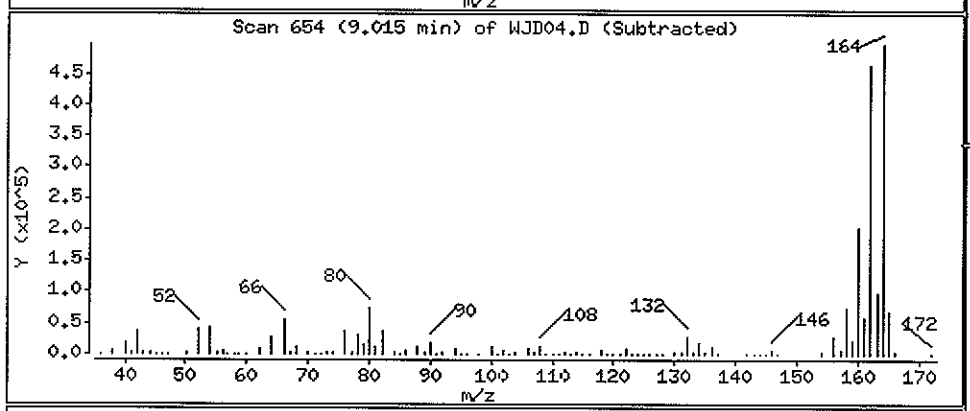
Column diameter: 0.25

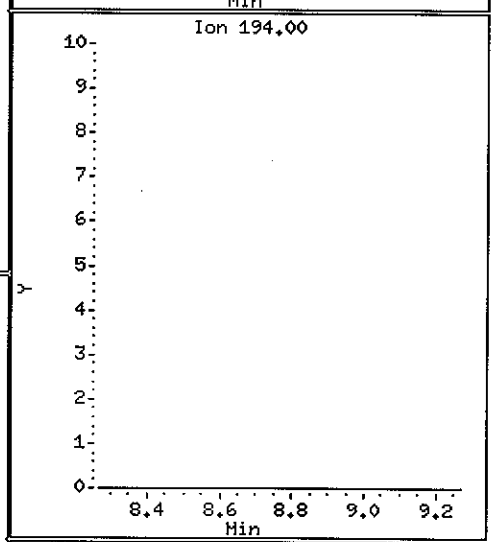
40 Dimethylphthalate

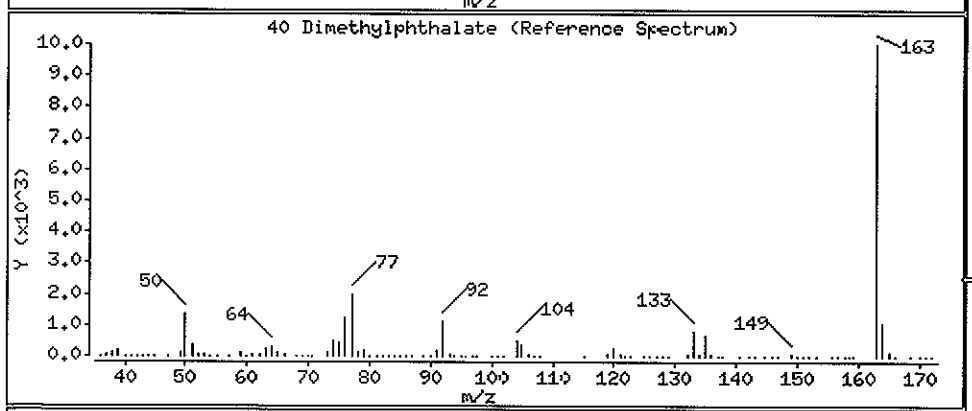
Concentration: 5.6672 ug/L

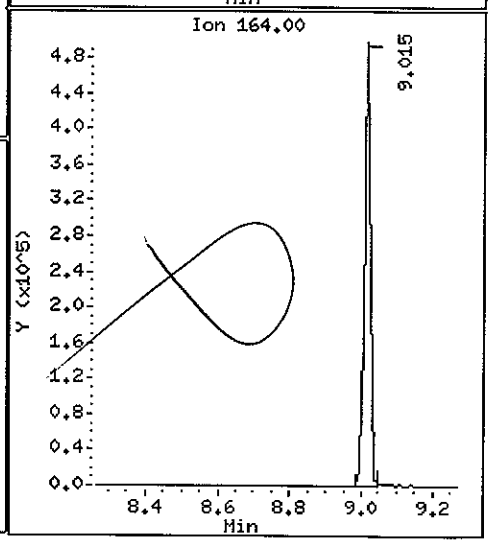


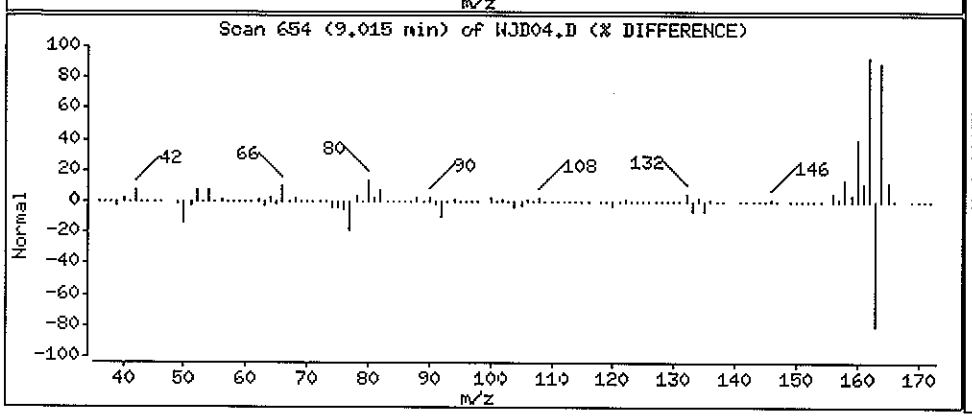












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Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

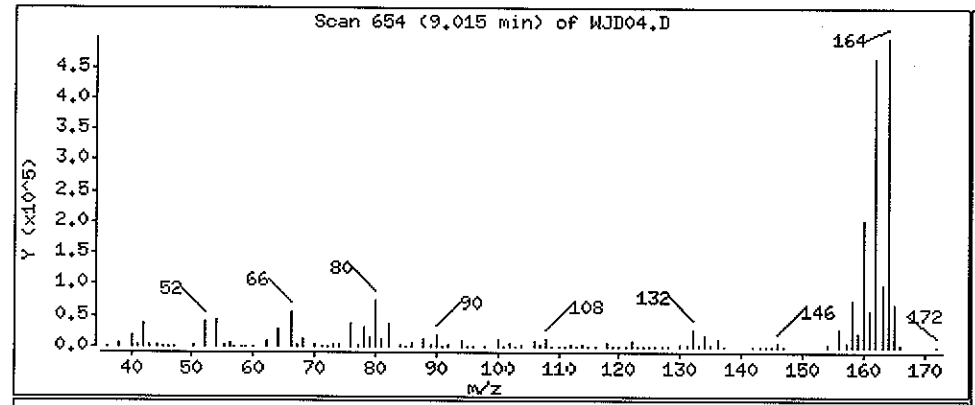
Operator: BVD

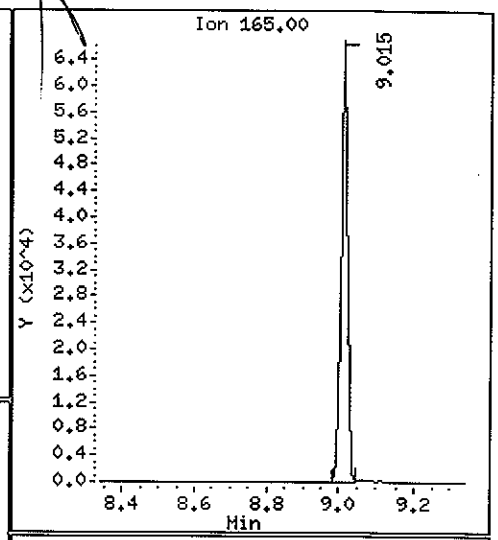
Column phase: Xti 5 x .5 u

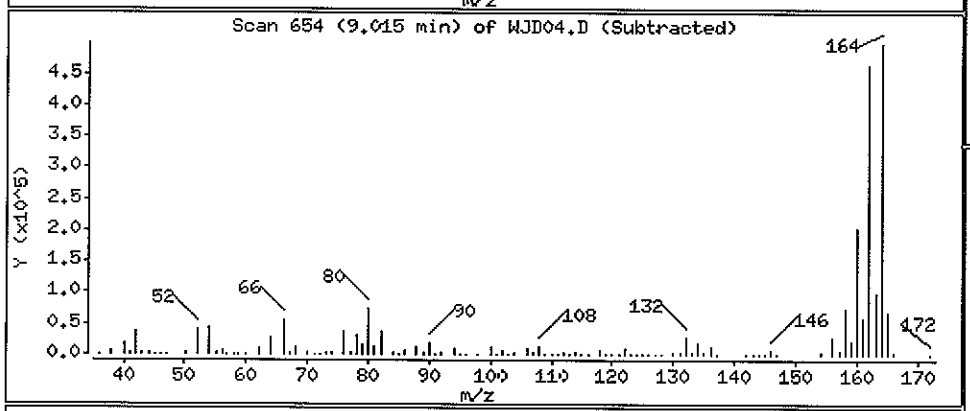
Column diameter: 0.25

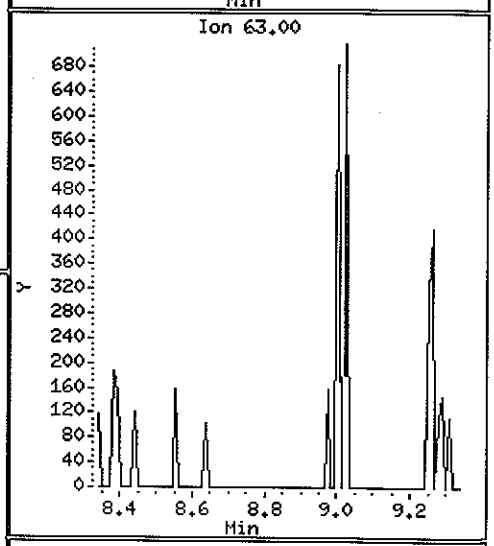
41 2,6-Dinitrotoluene

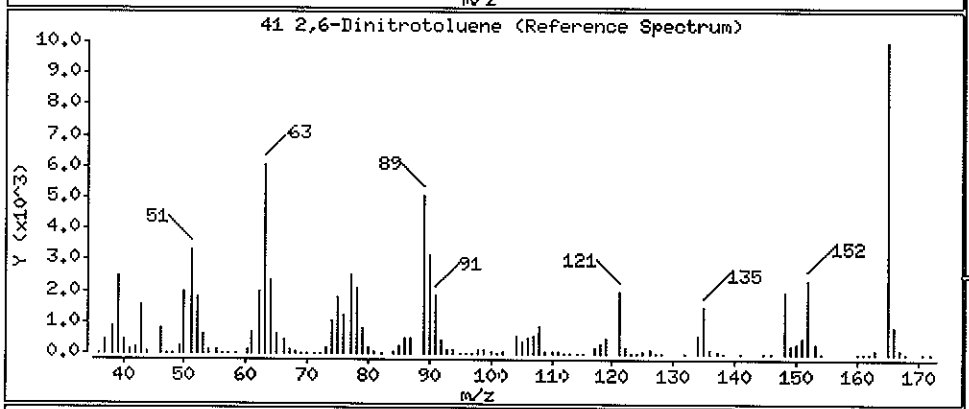
Concentration: 14.2258 ug/L

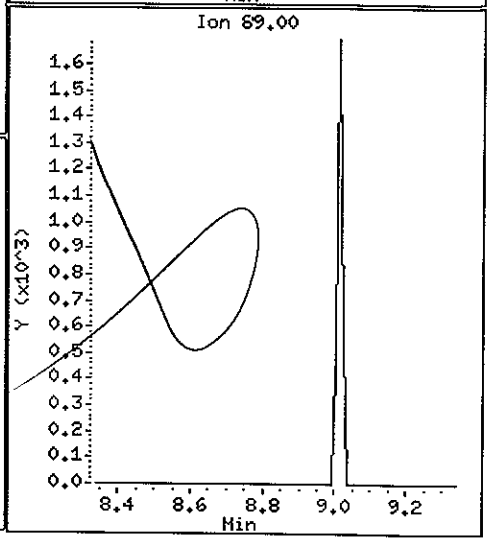


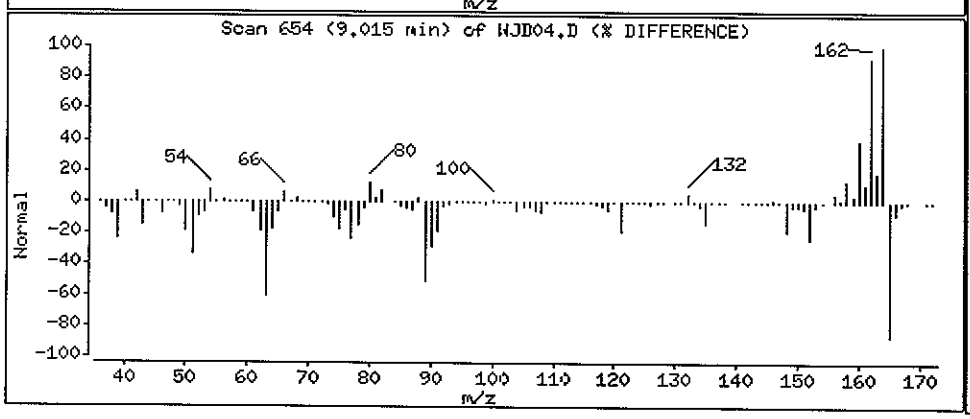












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Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

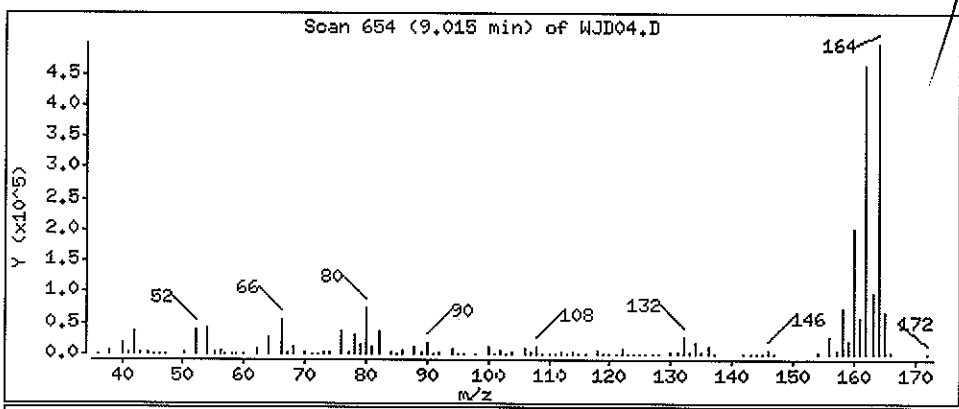
Operator: BVD

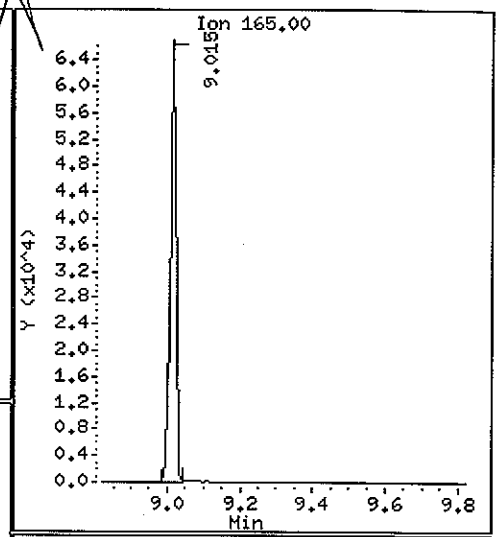
Column phase: Xti 5 x .5 u

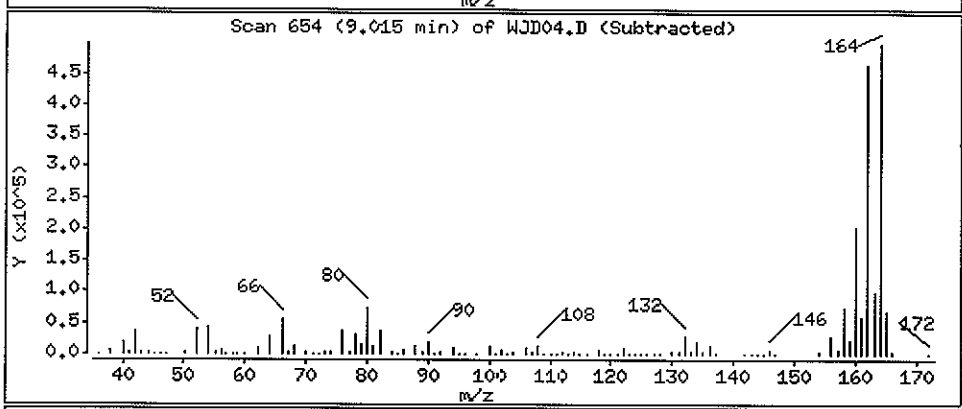
Column diameter: 0.25

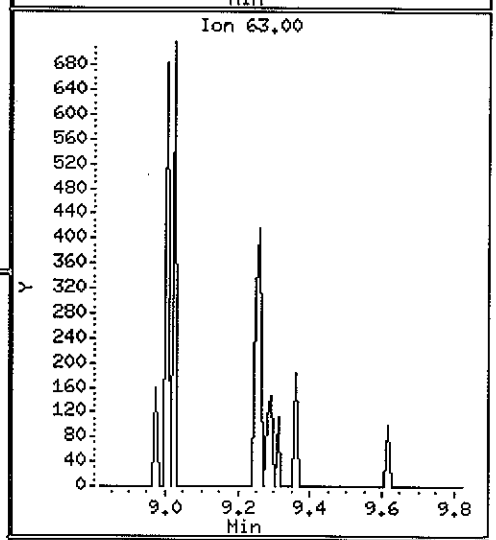
51 2,4-Dinitrotoluene

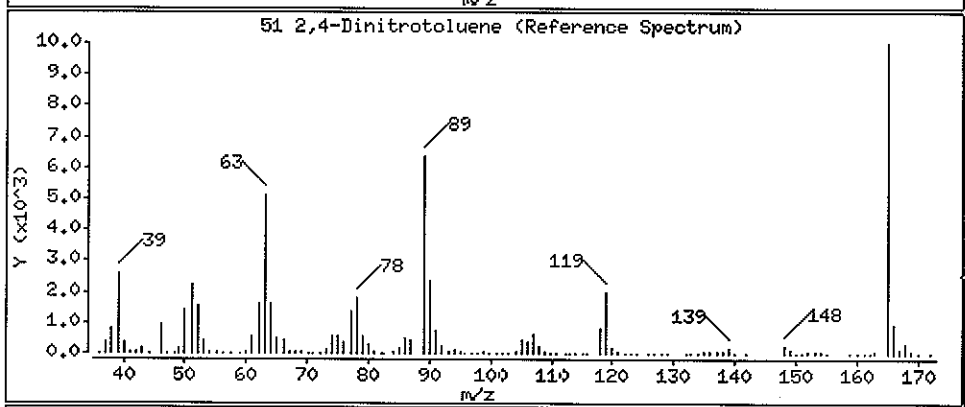
Concentration: 11.2703 ug/L

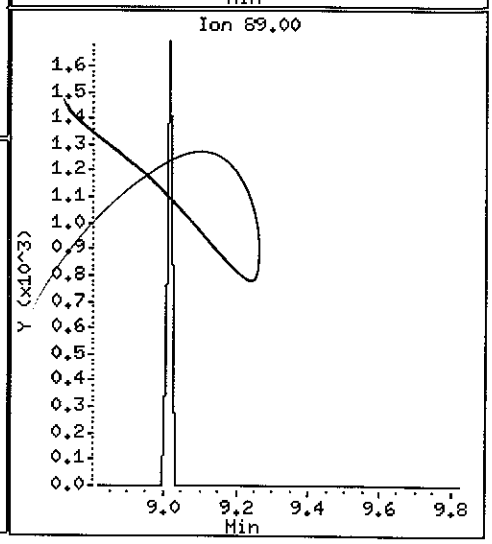


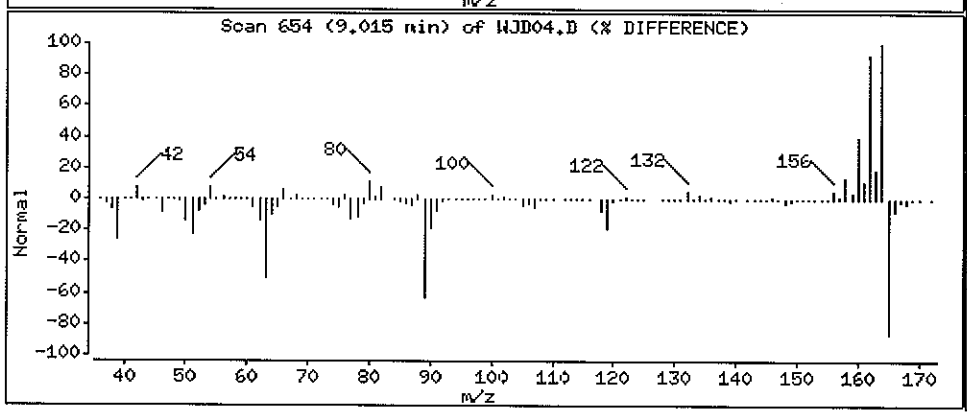












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Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

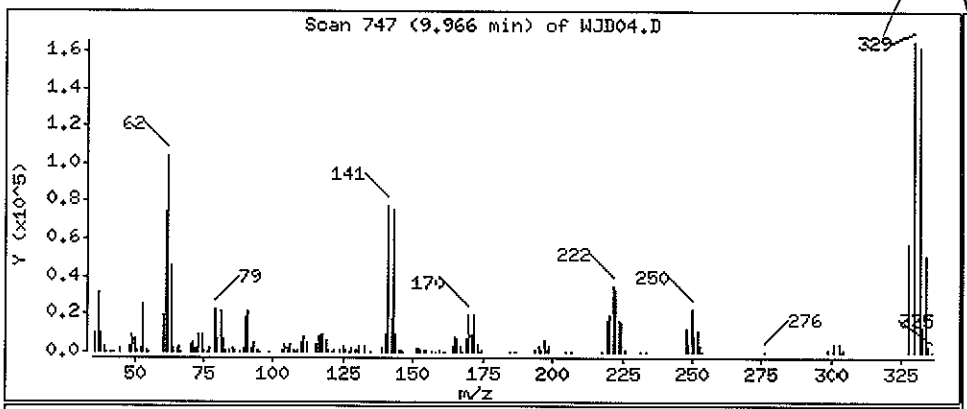
Operator: BVD

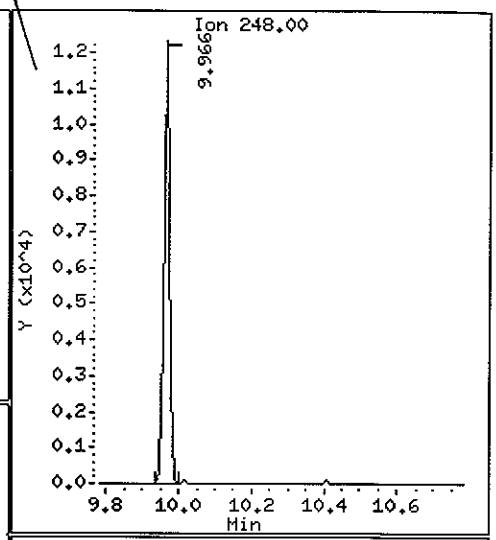
Column phase: Xti 5 x .5 u

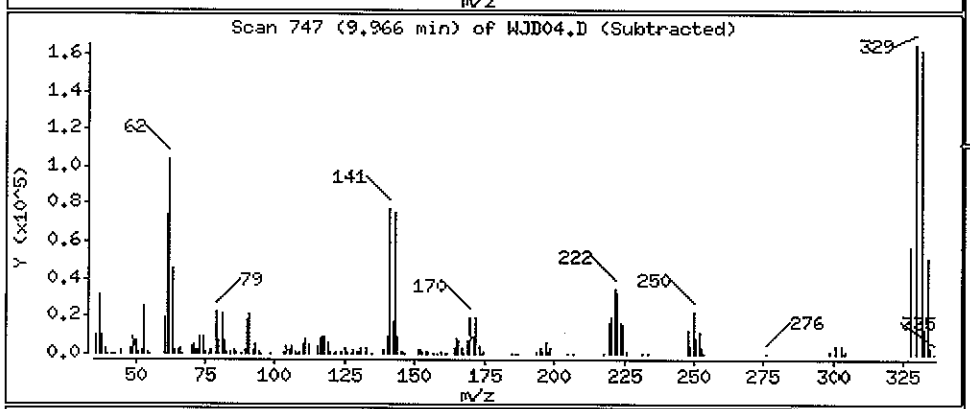
Column diameter: 0.25

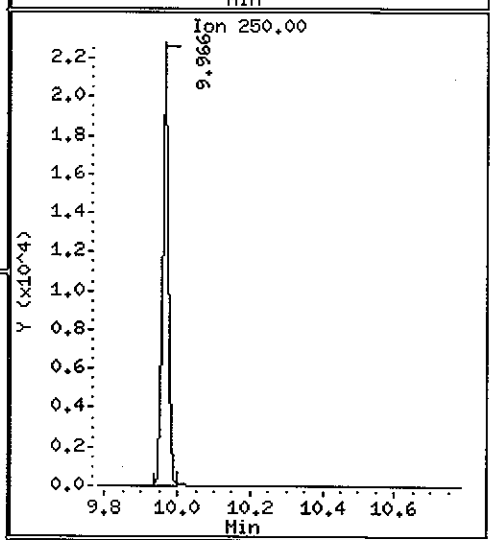
58 4-Bromophenyl-phenylether

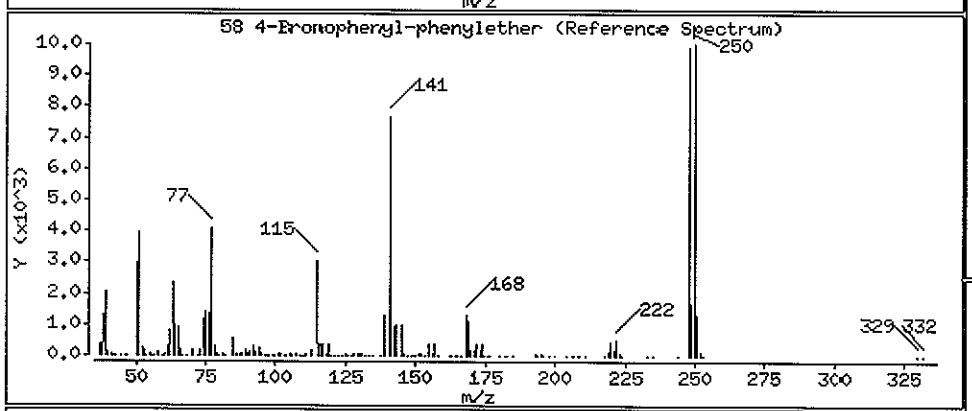
Concentration: 1.8034 ug/L

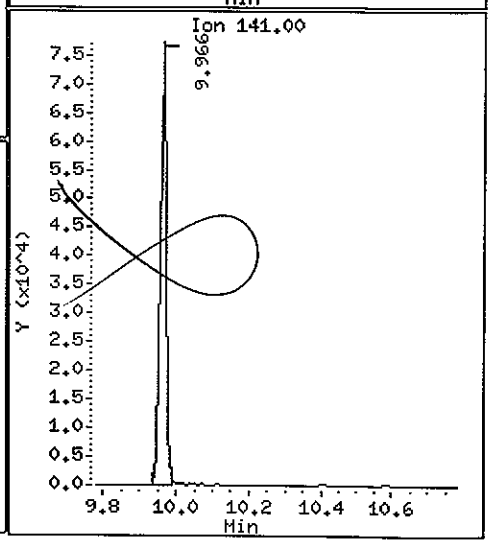


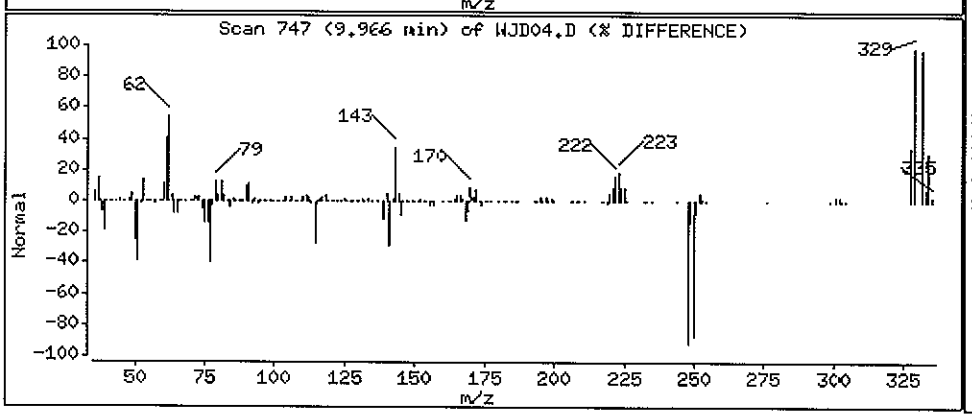












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Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0

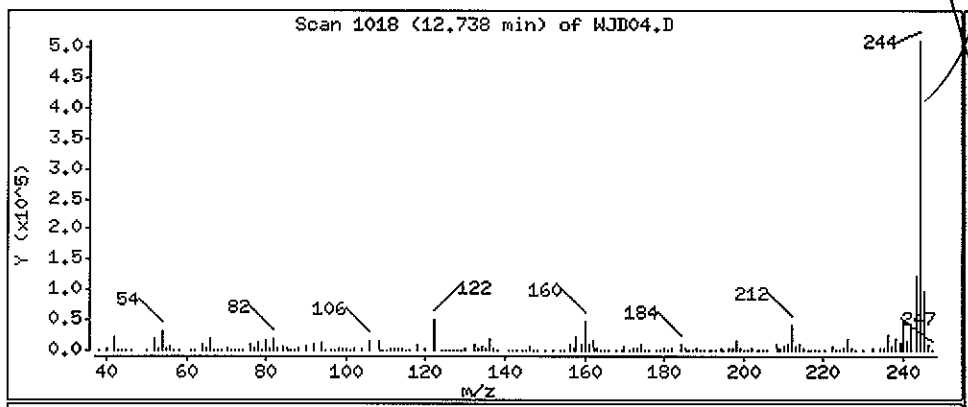
Operator: BVD

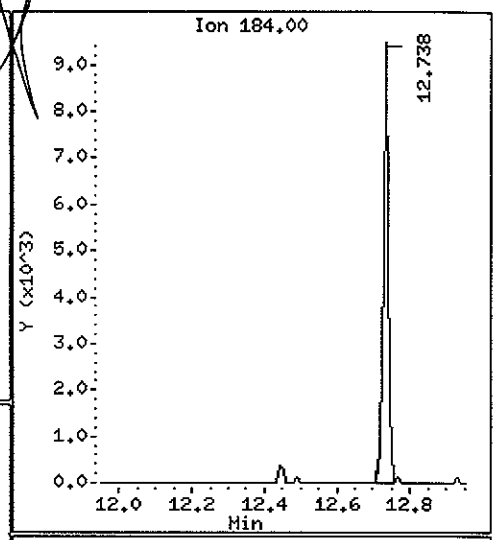
Column phase: Xti 5 x .5 u

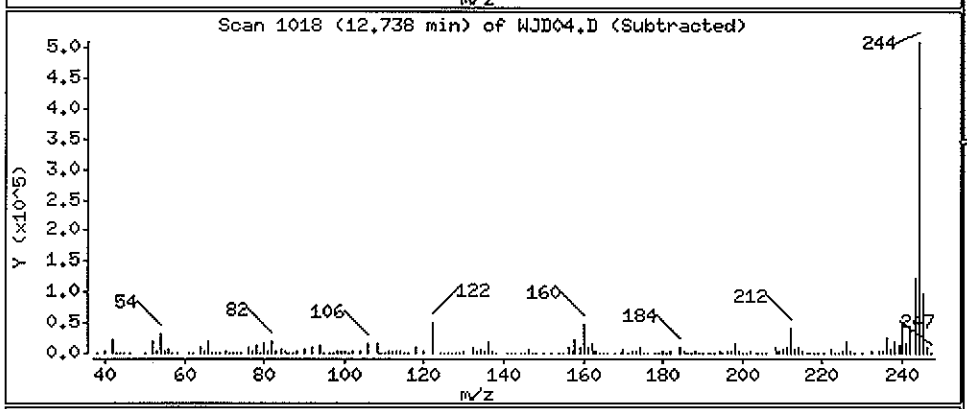
Column diameter: 0.25

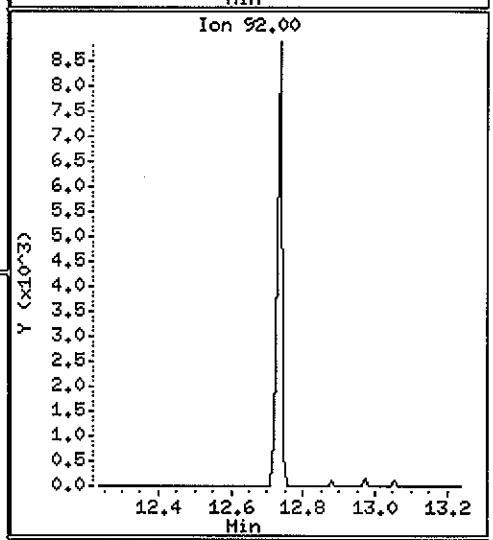
67 Benzidine

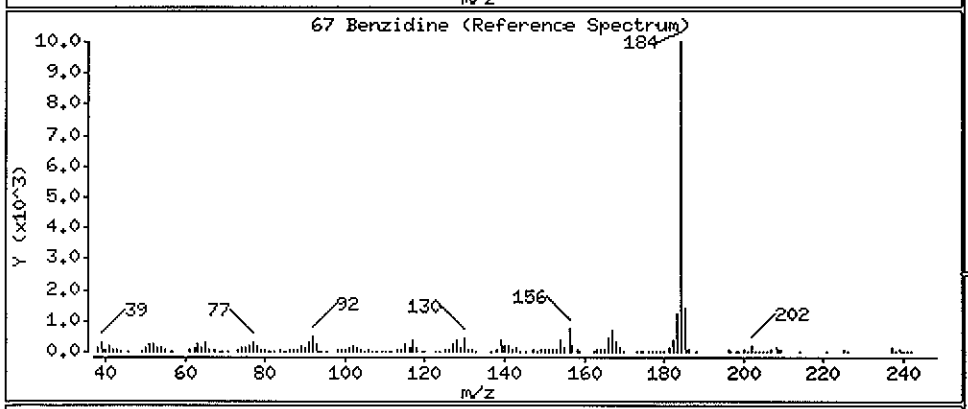
Concentration: 4.0464 ug/L

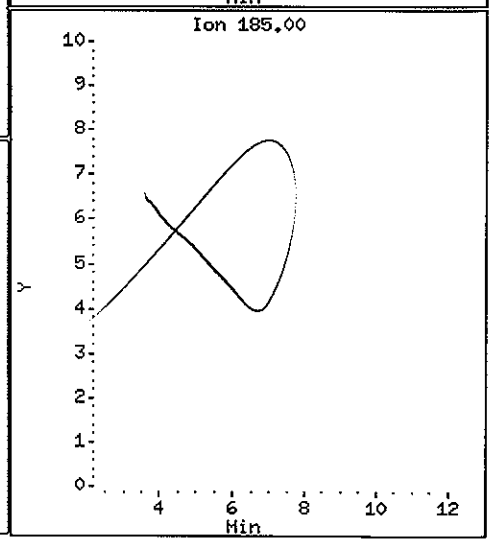


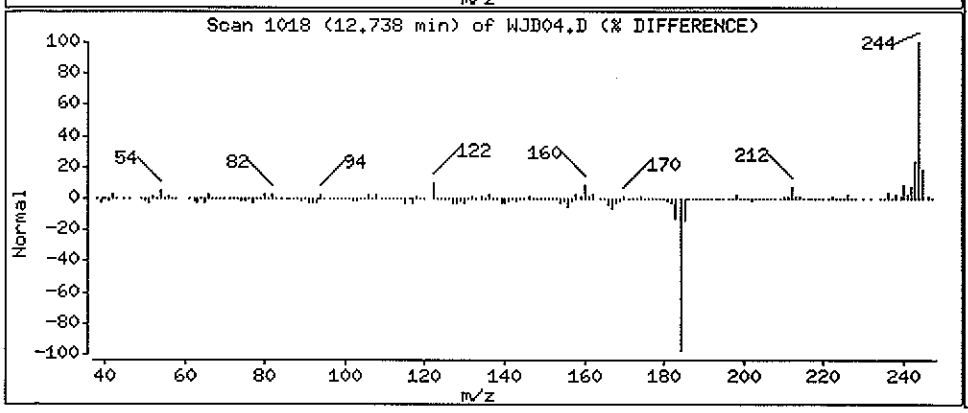












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD04.D

Date : 13-OCT-2004 12:13

Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

Sample Info: S,175141-009

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
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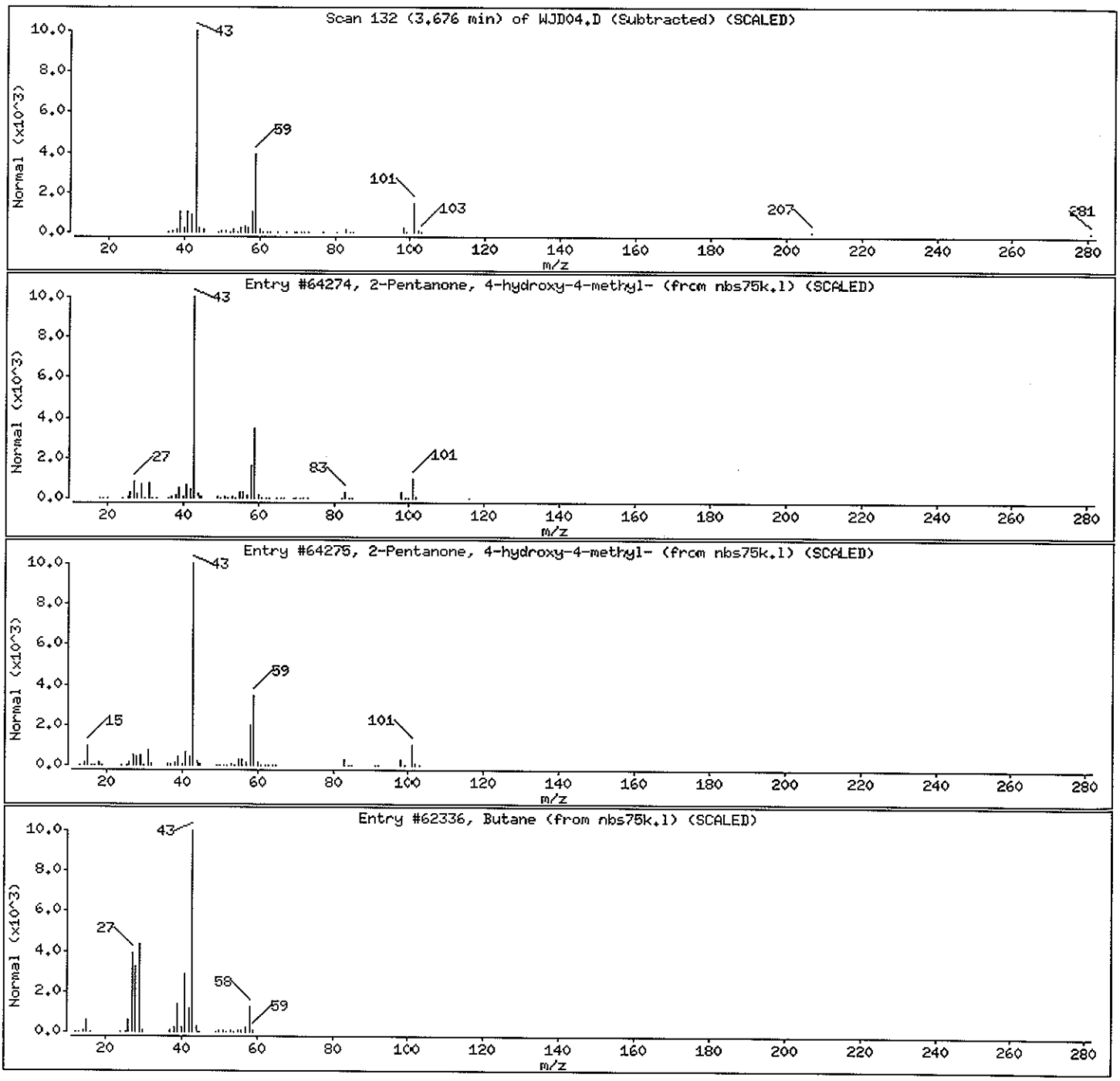
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	50	C6H12O2	116
Butane	106-97-8	nbs75k.l	62336	27	C4H10	58



Curtis & Tompkins, Ltd.

QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA05	Samplenum:	QC267414	Cident	:
Seqnum	: 544409748004	Matrix	: Soil	Acctnum	: QC
Filename	: xja04	Batchnum	: 95302	Injected	: 10-OCT-2004 14:41
IDF	: 1.0			Units	: ug/Kg
Calnum	: 544403805004	Caldate	: 06-OCT-2004	Caltype	:

Prep: 29.62 g --> 1.0 ml = 0.03376 ml/g PDF

Analyte	Result	RTS	RL	Flags
Phenol	ND		340	
2-Chlorophenol	ND		340	
1,4-Dichlorobenzene	ND		340	
N-Nitroso-di-n-propylamine	~~210 J~~	0.166	340	x
1,2,4-Trichlorobenzene	ND		340	
4-Chloro-3-methylphenol	ND		340	
Acenaphthene	ND		68	
4-Nitrophenol	ND		680	
2,4-Dinitrotoluene	~~450~~	-0.269	340	x
Pentachlorophenol	ND		680	
Pyrene	ND		68	
N-Nitrosodimethylamine	ND		340	
Pyridine	ND		340	
Aniline	~~160 J~~	-0.093	340	x
bis(2-Chloroethyl)ether	ND		340	
1,3-Dichlorobenzene	ND		340	
Benzyl alcohol	ND		340	
1,2-Dichlorobenzene	ND		340	
2-Methylphenol	ND		340	
bis(2-Chloroisopropyl) ether	ND		340	
4-Methylphenol	ND		680	
Hexachloroethane	ND		340	
Nitrobenzene	ND		340	
Isophorone	~~490~~	-0.289	340	x
2-Nitrophenol	ND		680	
2,4-Dimethylphenol	ND		340	
Benzoic acid	ND		1700	v+
bis(2-Chloroethoxy)methane	ND		340	
2,4-Dichlorophenol	ND		340	
Naphthalene	ND		68	
4-Chloroaniline	ND		340	
Hexachlorobutadiene	ND		340	
2-Methylnaphthalene	ND		68	
Hexachlorocyclopentadiene	ND		1700	
2,4,6-Trichlorophenol	ND		340	
2,4,5-Trichlorophenol	ND		340	
2-Chloronaphthalene	ND		340	
2-Nitroaniline	ND		680	
Dimethylphthalate	~~220 J~~	0.341	340	x
Acenaphthylene	ND		68	
2,6-Dinitrotoluene	~~580~~	0.218	340	x
3-Nitroaniline	ND		680	
2,4-Dinitrophenol	ND		1700	

!=calc err +=high bias -=low bias rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

10/13/04

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA05	Samplenum:	QC267414	Cident	:
Seqnum	: 544409748004	Matrix	: Soil	Acctnum	: QC
Filename	: xja04	Batchnum	: 95302	Injected	: 10-OCT-2004 14:41
IDF	: 1.0			Units	: ug/Kg
Calnum	: 544403805004	Caldate	: 06-OCT-2004	Caltype	:

Analyte	Result	RTS	RL	Flags
Dibenzofuran	ND		340	y
Diethylphthalate	ND		340	
Fluorene.....	~~46 J~~	0.321	68	x
4-Chlorophenyl-phenylether	ND		340	
4-Nitroaniline	ND		680	
4,6-Dinitro-2-methylphenol	ND		1700	!v+
N-Nitrosodiphenylamine	ND		340	
Azobenzene	ND		340	
4-Bromophenyl-phenylether.....	~~50 J~~	-0.248	340	x
Hexachlorobenzene	ND		340	
Phenanthrene	ND		68	
Anthracene	ND		68	
Carbazole	ND		1700	!v-
Di-n-butylphthalate	ND		340	
Fluoranthene	ND		68	
Benzidine	ND		1700	! rsd v-
Butylbenzylphthalate	ND		340	
3,3'-Dichlorobenzidine	ND		680	
Benzo(a)anthracene	ND		68	
Chrysene	ND		68	
bis(2-Ethylhexyl)phthalate	ND		340	
Di-n-octylphthalate	ND		340	
Benzo(b)fluoranthene	ND		68	v+
Benzo(k)fluoranthene	ND		68	
Benzo(a)pyrene	ND		68	
Indeno(1,2,3-cd)pyrene	ND		68	
Dibenz(a,h)anthracene	ND		68	
Benzo(g,h,i)perylene	ND		68	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3376	1878	56	33-120	
Phenol-d5	3376	1717	51	31-120	
2,4,6-Tribromophenol	3376	1550	46	32-120	
Nitrobenzene-d5	1688	868.3	51	43-120	
2-Fluorobiphenyl	1688	943.4	56	48-120	
Terphenyl-d14	1688	814.8	48	37-120	

ISTD (CCV=xja02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	452611	681456	50.56	6.54	6.54	0.00
Naphthalene-d8	1629798	2552344	56.60	8.05	8.04	-0.01
Acenaphthene-d10	1050319	1711349	62.94	10.23	10.22	-0.01
Phenanthrene-d10	2059901	3230065	56.81	12.07	12.07	0.01
Chrysene-d12	2085148	3450295	65.47	15.67	15.67	0.00
Perylene-d12	1963729	2843597	44.81	19.07	19.06	-0.01

!=calc err +=high bias -=low bias rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

10/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D
Report Date: 10-Oct-2004 15:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-OCT-2004 14:41 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : MB,QC267414
Misc Info : 95302,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\6PTBNA5.m
Meth Date : 10-Oct-2004 14:34 tapsvc Quant Type: ISTD
Cal Date : 06-OCT-2004 16:01 Cal File: XJ610.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.193	5.172	(0.794)	1042219	55.6397	55.6396
$ 4 Phenol-d5	99	6.124	6.124	(0.937)	1143252	50.8675	50.8675
6 Aniline	66	6.124	6.217	(0.937)	39291	4.62765	~~4.6276~~
* 10 1,4-Dichlorobenzene-d4	152	6.538	6.538	(1.000)	681456	40.0000	
17 N-Nitroso-di-n-propylamine	70	7.201	7.035	(1.101)	59637	6.25820	~~6.2582~~
$ 19 Nitrobenzene-d5	82	7.201	7.211	(0.896)	479639	25.7176	25.7175
21 Isophorone	82	7.201	7.490	(0.896)	479639	14.3519	~~14.3518~~
* 28 Naphthalene-d8	136	8.039	8.049	(1.000)	2552344	40.0000	
$ 37 2-Fluorobiphenyl	172	9.354	9.364	(0.915)	1462125	27.9435	27.9434
40 Dimethylphthalate	163	10.233	9.892	(1.001)	345171	6.40266	~~6.4026~~
41 2,6-Dinitrotoluene	165	10.223	10.005	(1.000)	222616	17.0877	17.0877
* 44 Acenaphthene-d10	164	10.223	10.233	(1.000)	1711349	40.0000	
49 2,4-Dinitrotoluene	165	10.223	10.492	(1.000)	222616	13.2952	13.2952
52 Fluorene	166	11.217	10.896	(1.097)	24869	0.46043	0.4604

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D
Report Date: 10-Oct-2004 15:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 57 2,4,6-Tribromophenol	330	11.217	11.227	(1.097)	588941	45.9126	45.9125
58 4-Bromophenyl-phenylether	248	11.217	11.465	(0.930)	30545	1.47376	~~1.4737~~
* 61 Phenanthrene-d10	188	12.065	12.065	(1.000)	3230065	40.0000	
67 Benzidine	184	14.022	13.721	(0.895)	20160	1.85051	~~1.8505~~
$ 69 Terphenyl-d14	244	14.022	14.021	(0.895)	2179384	24.1346	24.1345
* 73 Chrysene-d12	240	15.667	15.667	(1.000)	3450295	40.0000	
* 80 Perylene-d12	264	19.062	19.072	(1.000)	2843597	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D
Report Date: 10-Oct-2004 15:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-OCT-2004 14:41 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : MB,QC267414
Misc Info : 95302,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\6PTBNA5.m
Meth Date : 10-Oct-2004 14:34 tapsvc Quant Type: ISTD
Cal Date : 06-OCT-2004 16:01 Cal File: XJ610.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

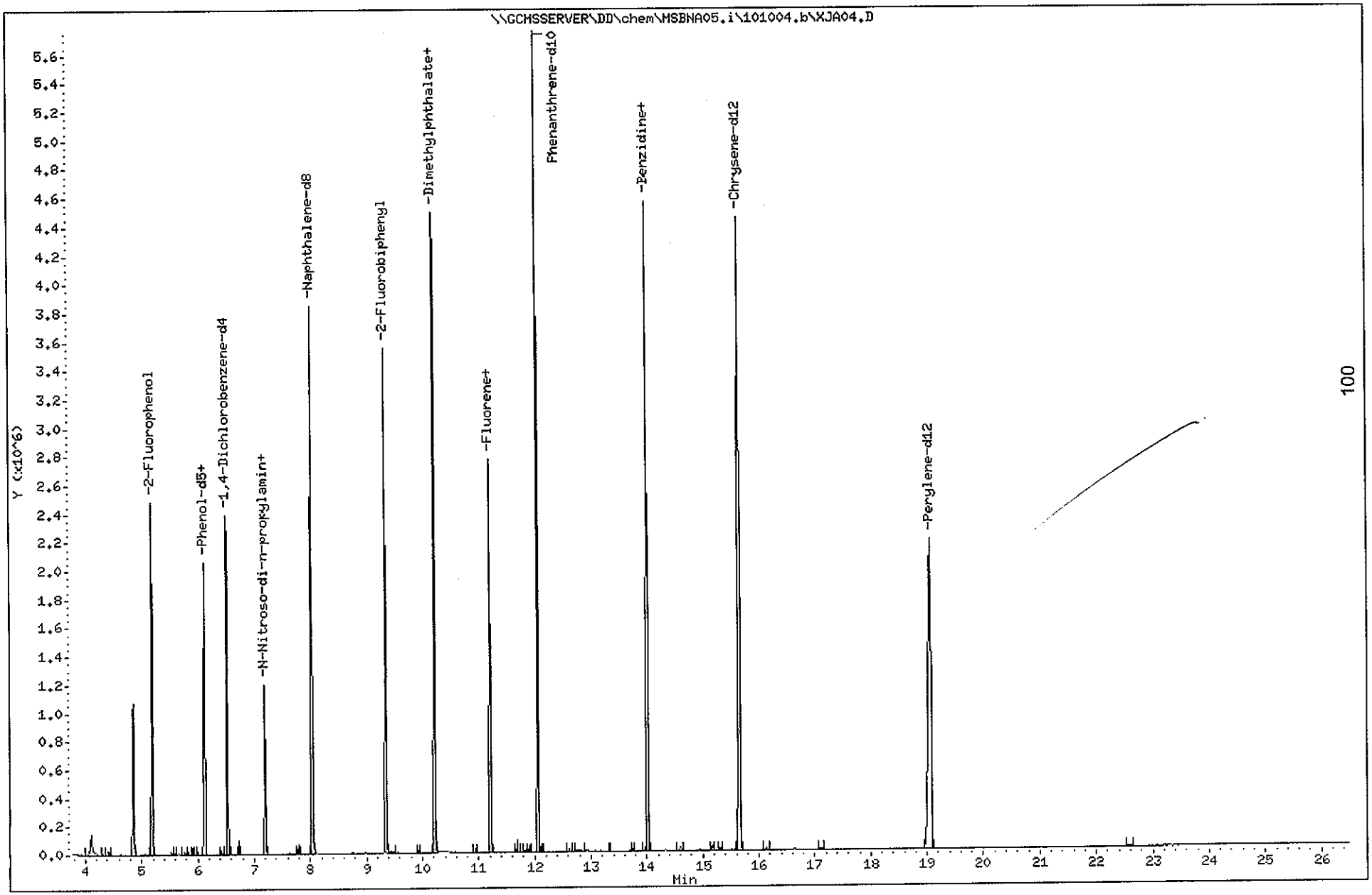
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	6.538	3368371	40.000

	RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Toluene					CAS #: 108-88-3			
	4.116	421466	5.00498312	5.0049	94	nbs75k.1	63030	10
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2			
	4.862	1631563	19.3750985	19.3750	50	nbs75k.1	64274	10

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D
Date : 10-OCT-2004 14:41
Client ID: CURTIS&TOMPKINS
Sample Info: MB,QC267414
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

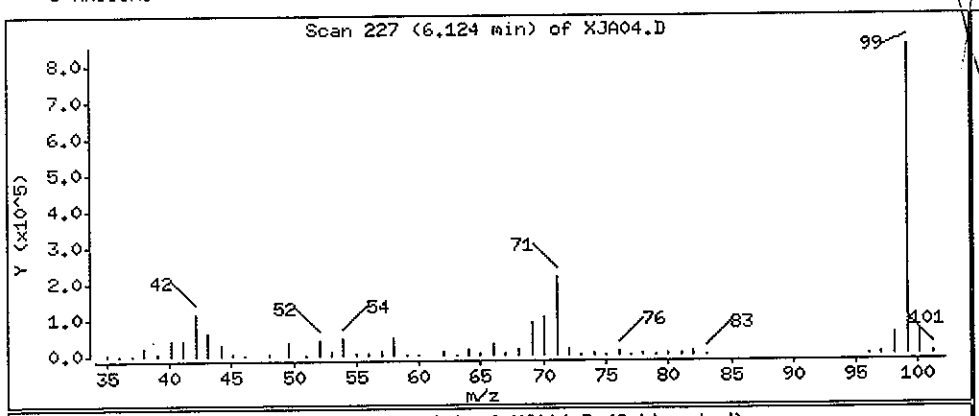
Operator: DL

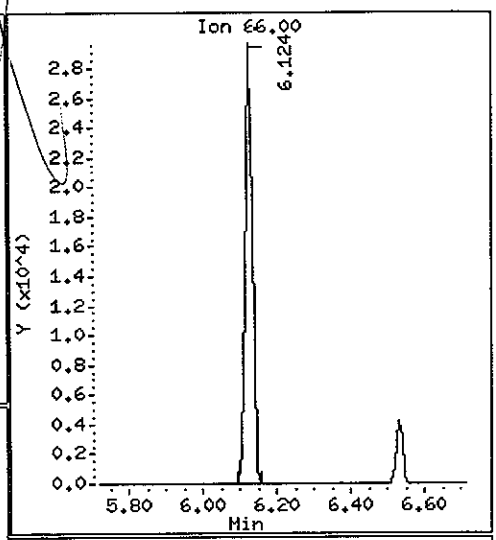
Column phase: Xti 5 x .5 u

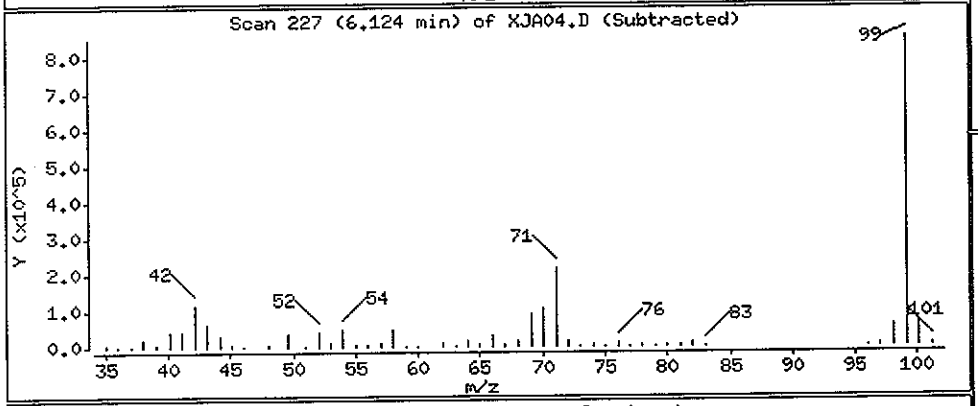
Column diameter: 0.25

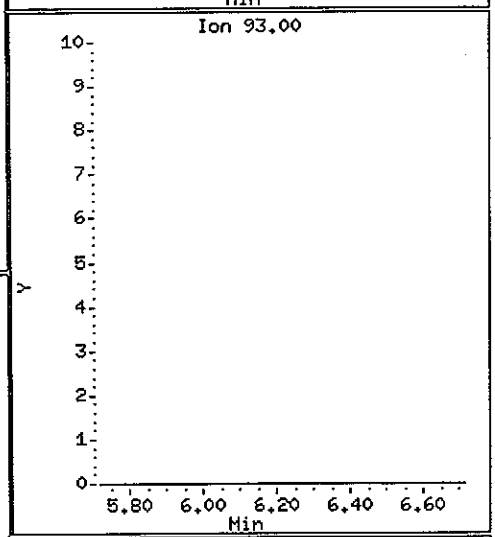
6 Aniline

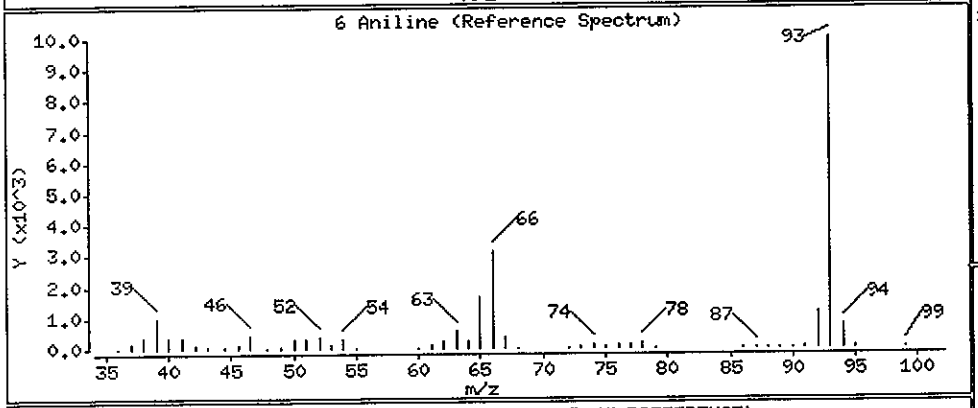
Concentration: 4.6276 ug/L

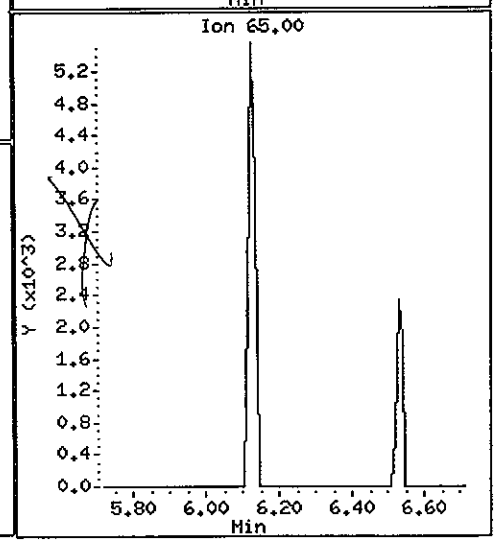


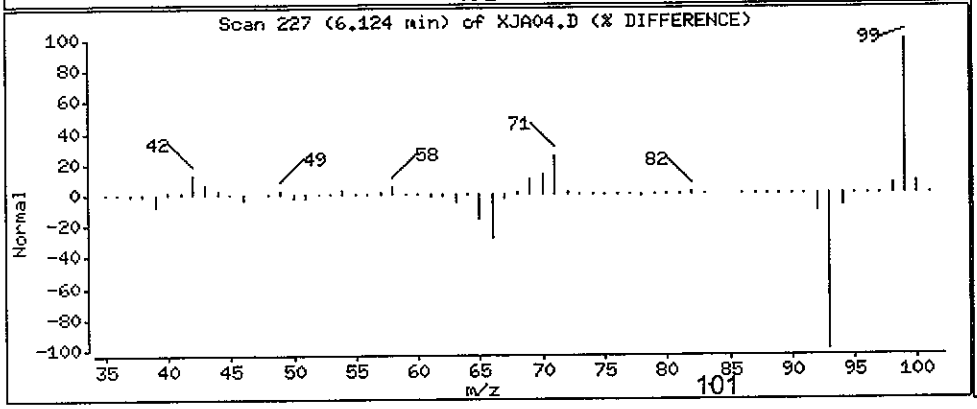












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

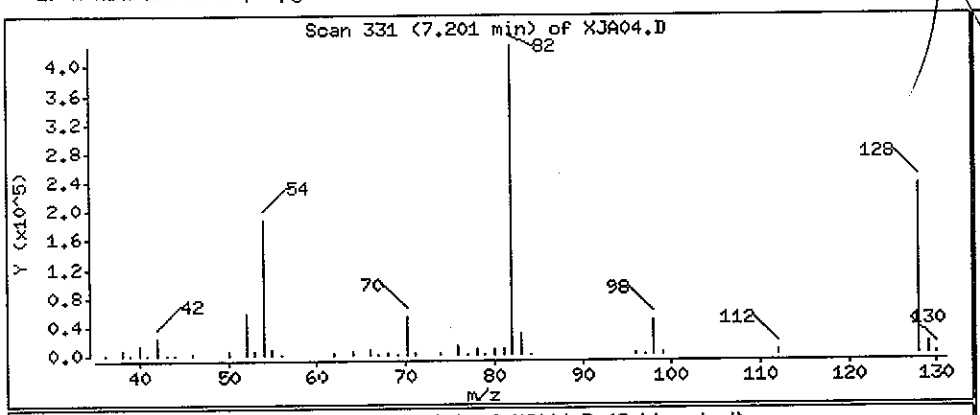
Operator: DL

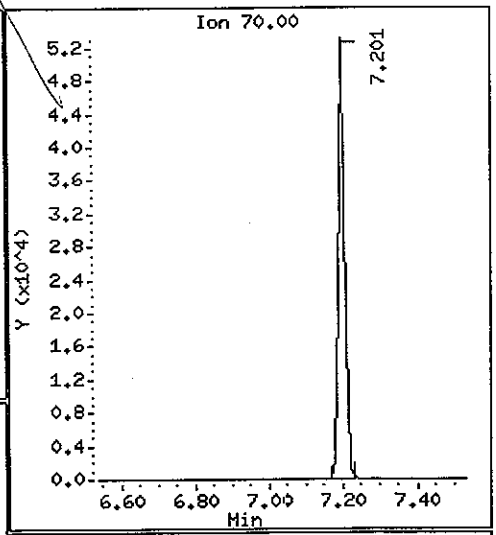
Column phase: Xti 5 x .5 u

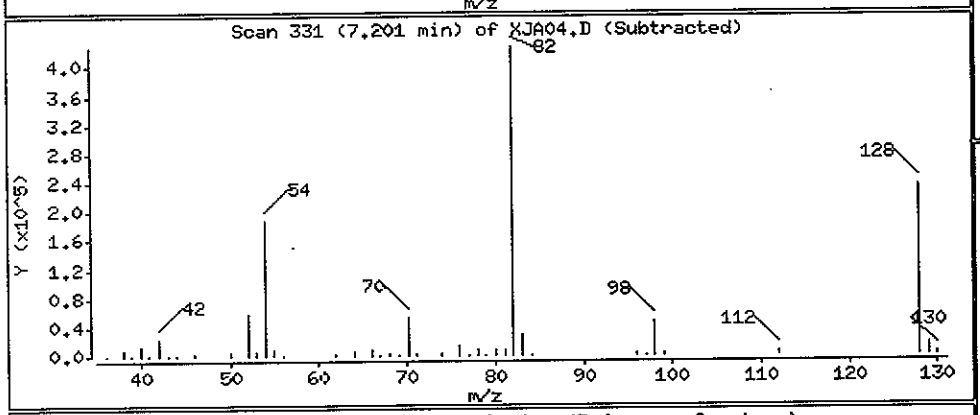
Column diameter: 0.25

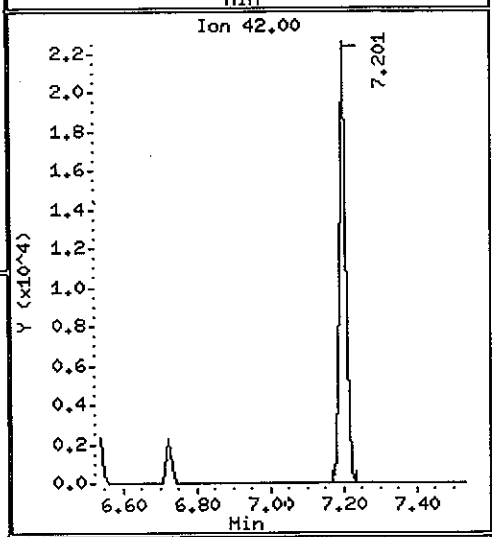
17 N-Nitroso-di-n-propylamine

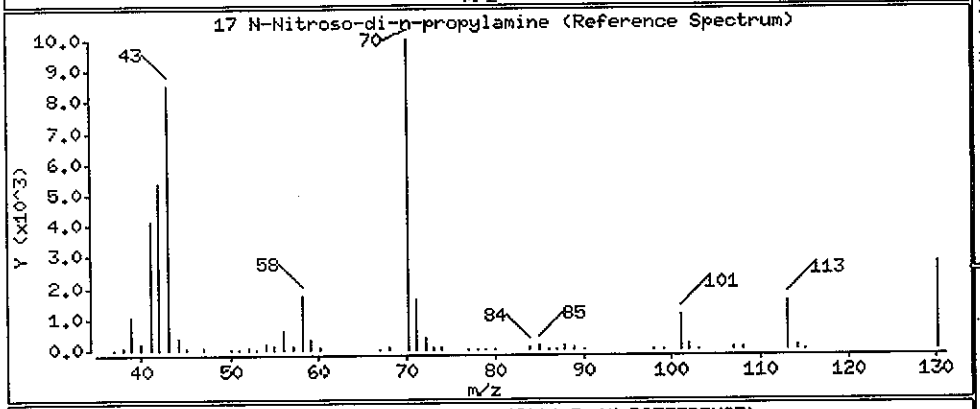
Concentration: 6.2582 ug/L

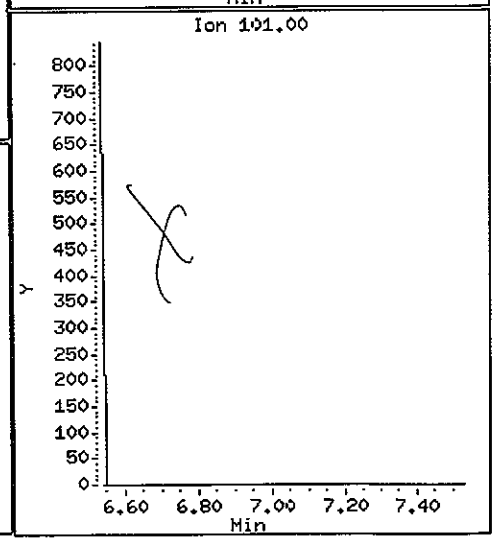


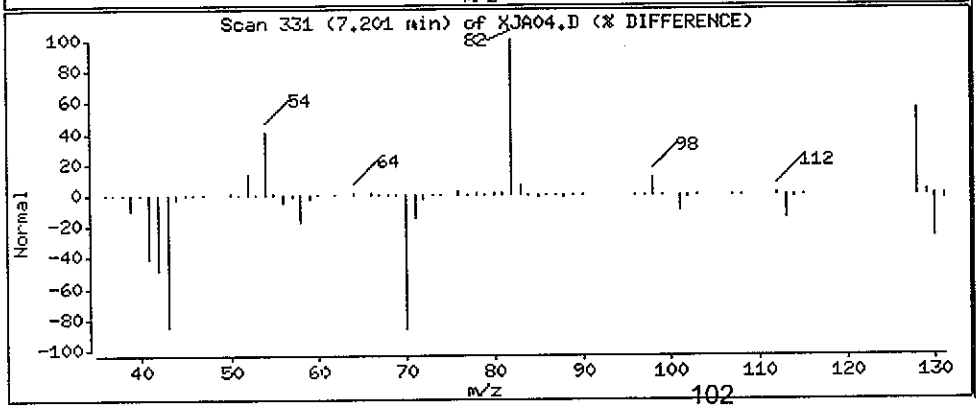












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Instrument: MSBNA05.i

Client ID: CURTIS&TOMPKINS

Sample Info: MB,QC267414

Operator: DL

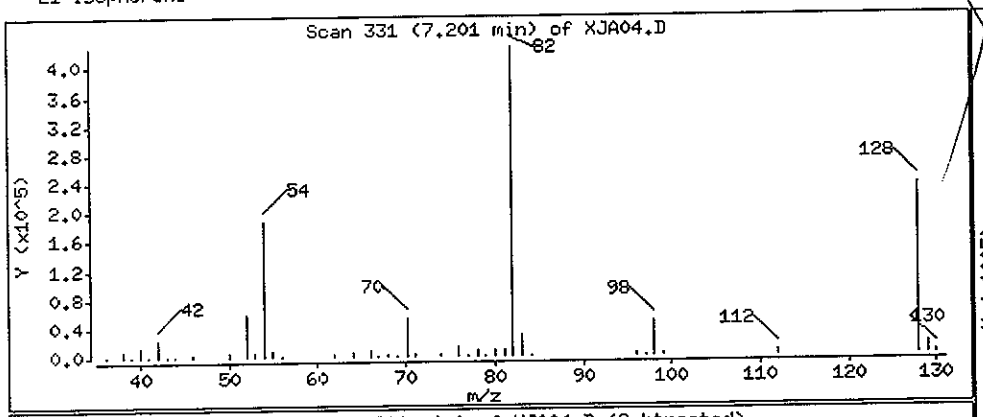
Volume Injected (uL): 1.0

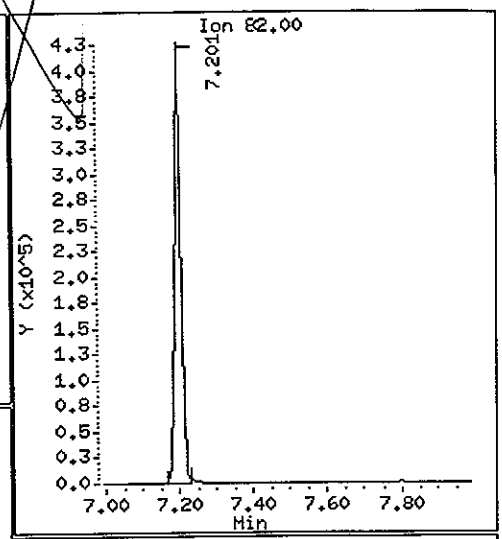
Column phase: Xti 5 x .5 u

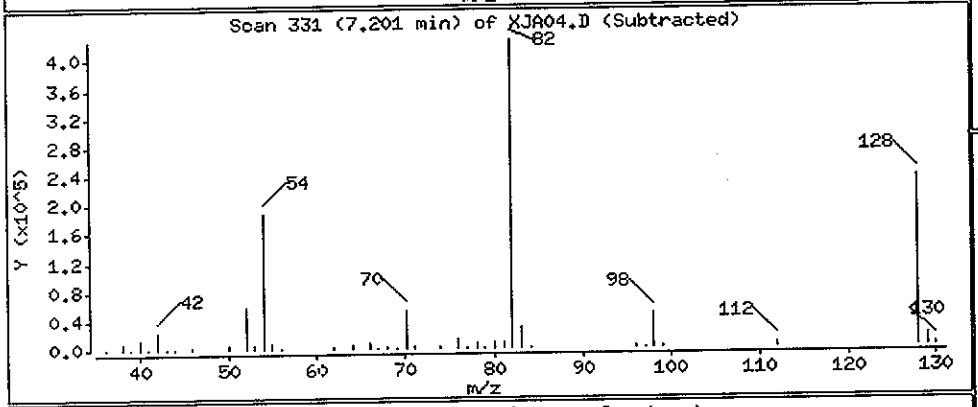
Column diameter: 0.25

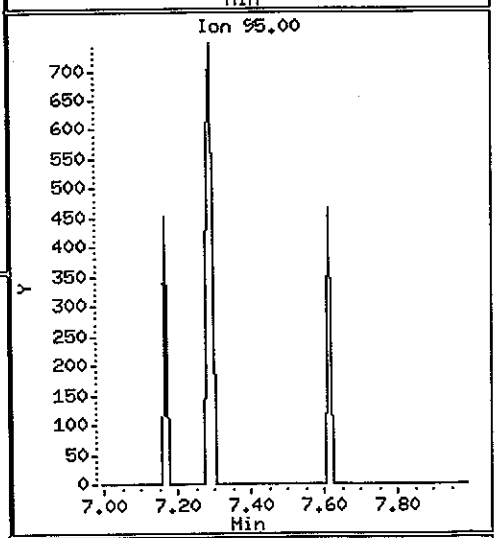
Concentration: 14.3518 ug/L

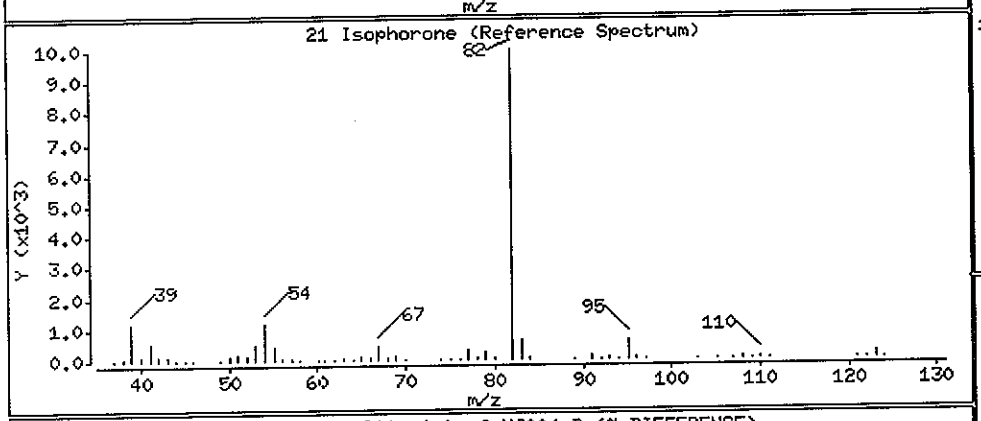
21 Isophorone

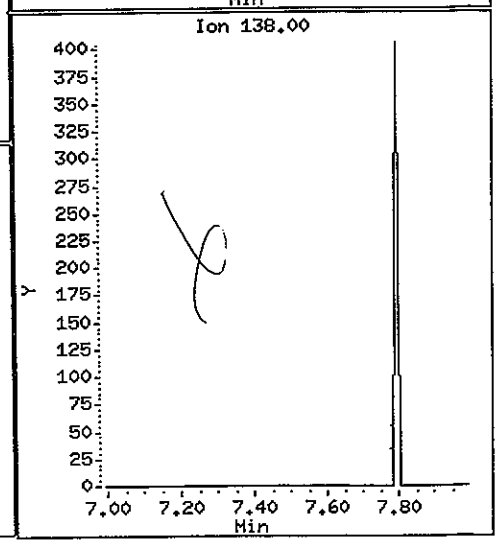


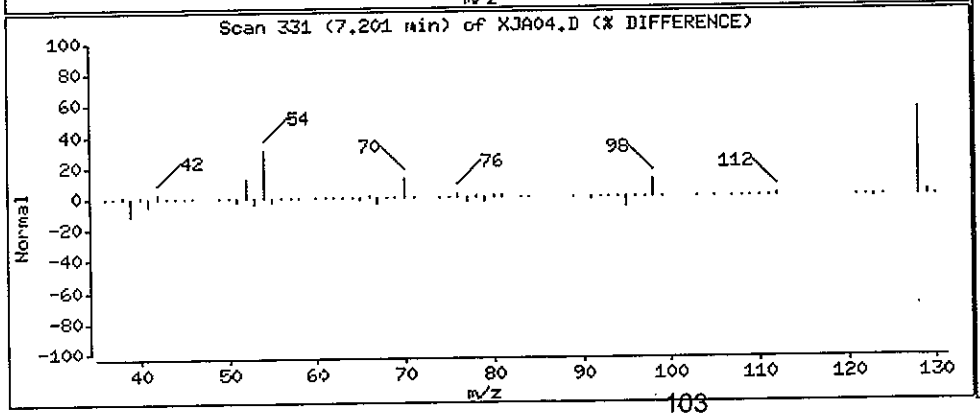












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

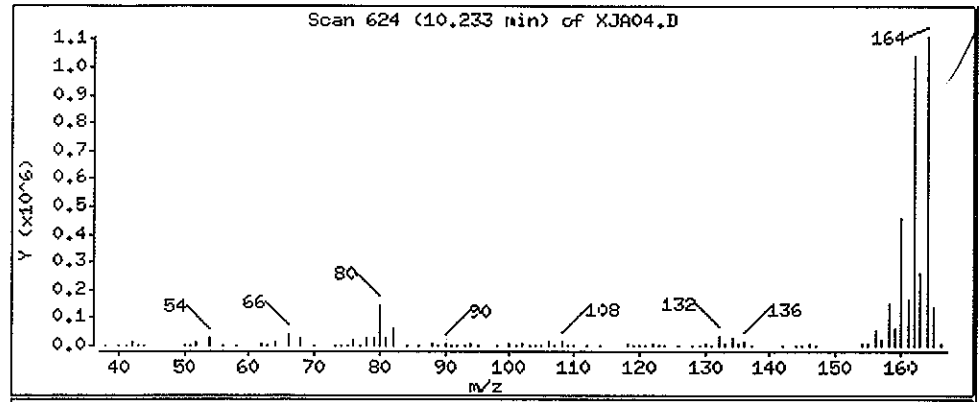
Operator: DL

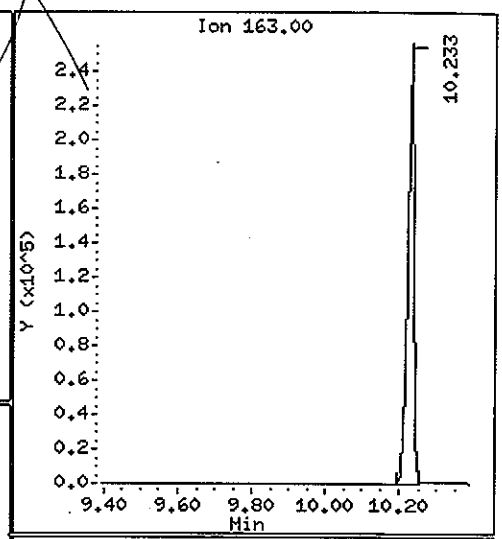
Column phase: Xti 5 x .5 u

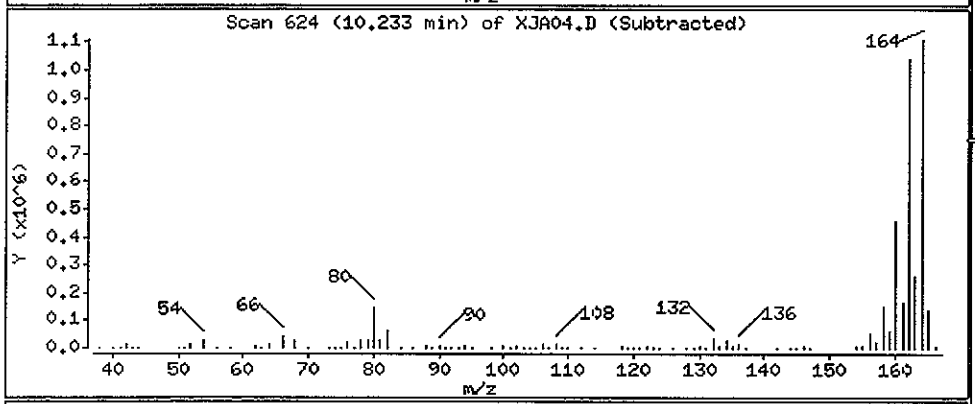
Column diameter: 0.25

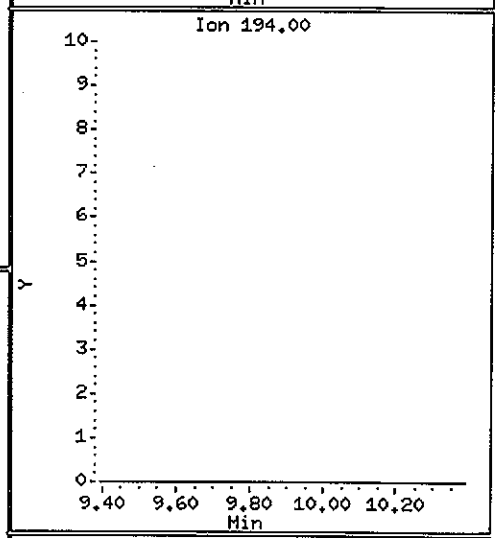
40 Dimethylphthalate

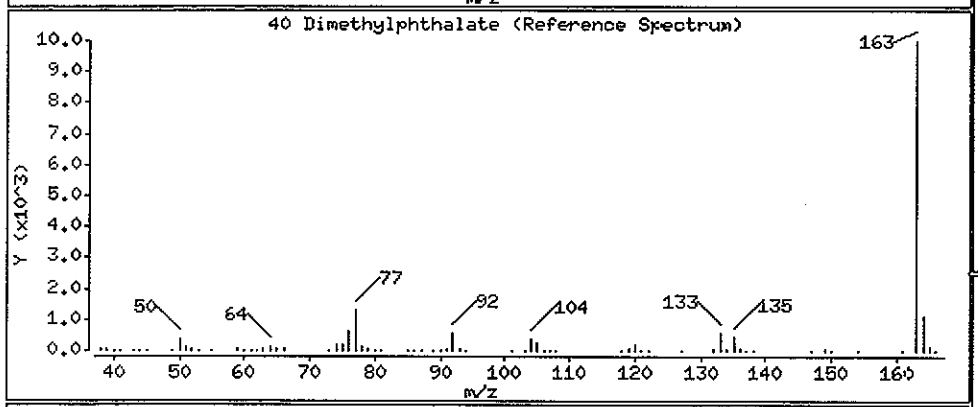
Concentration: 6.4026 ug/L

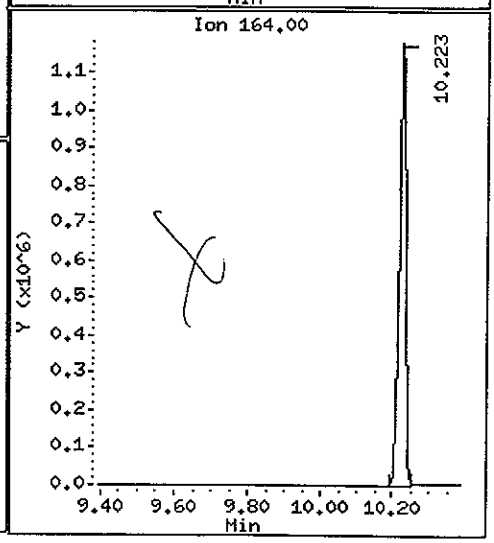


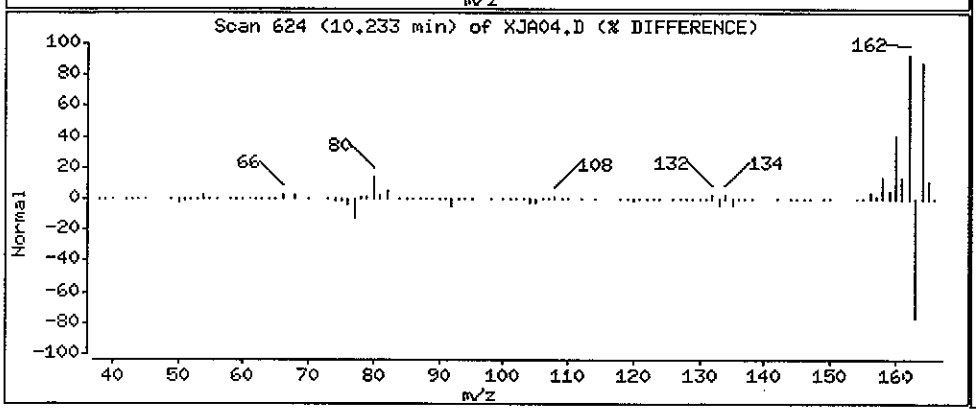












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

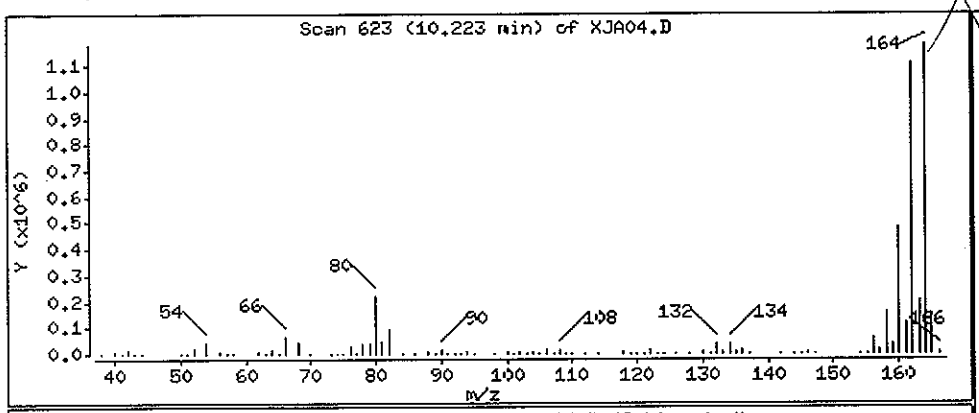
Operator: DL

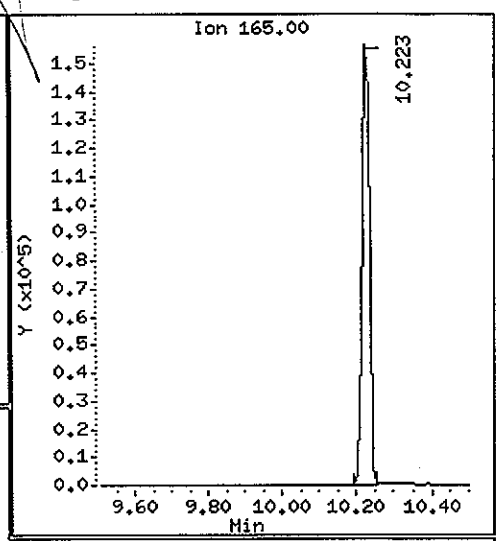
Column phase: Xti 5 x .5 u

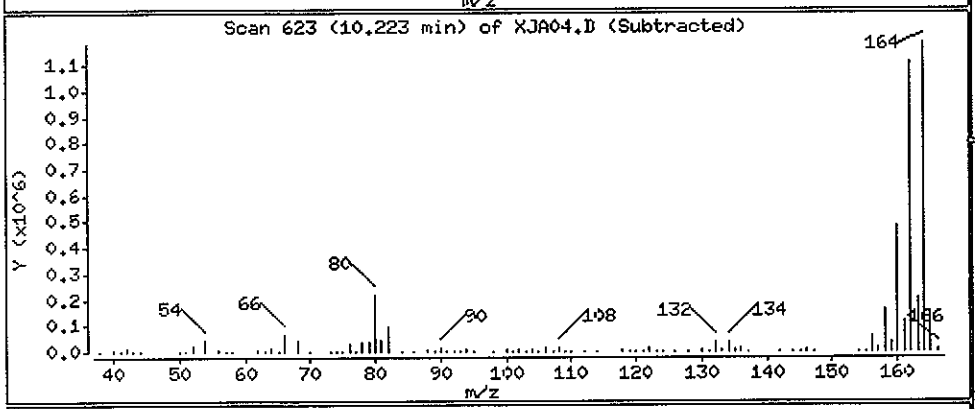
Column diameter: 0.25

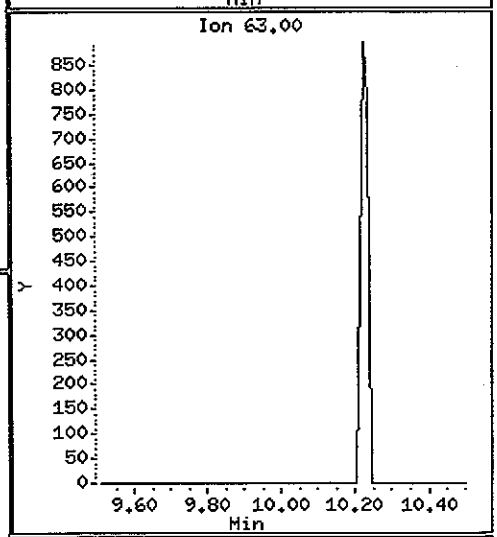
41 2,6-Dinitrotoluene

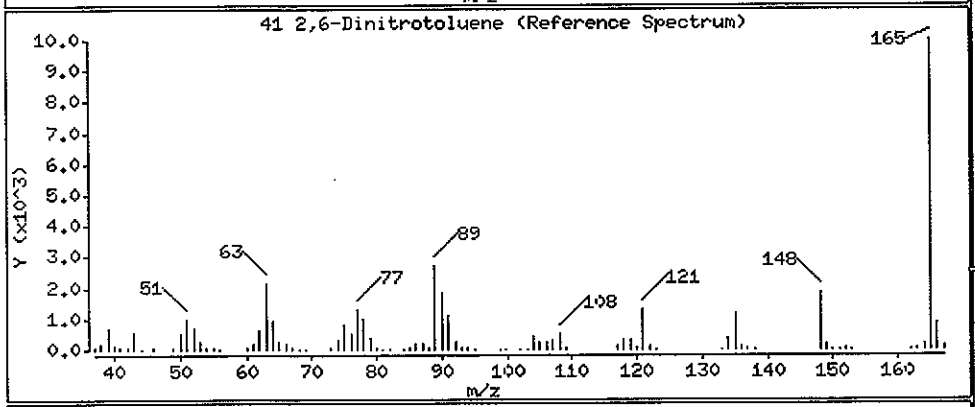
Concentration: 17.0877 ug/L

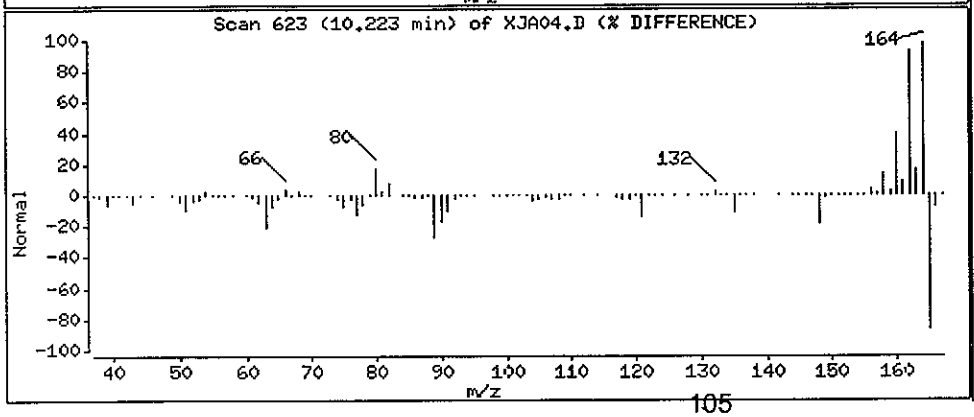


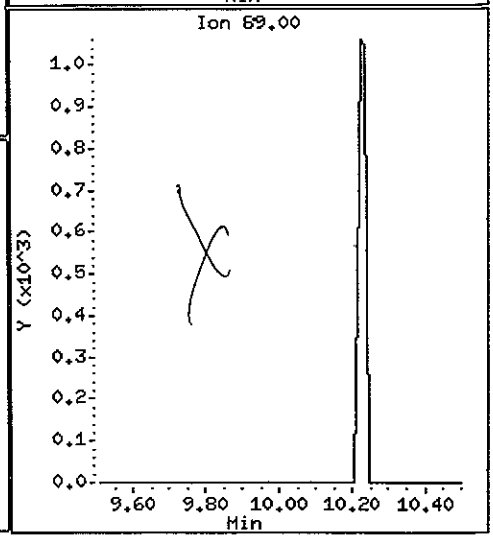












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

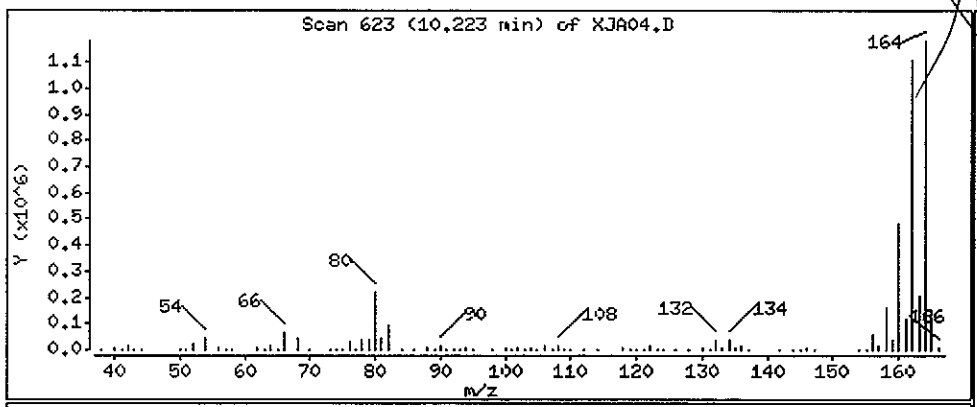
Operator: DL

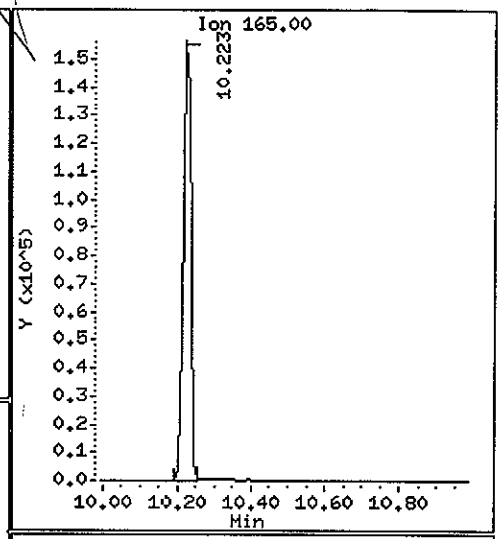
Column phase: Xti 5 x .5 u

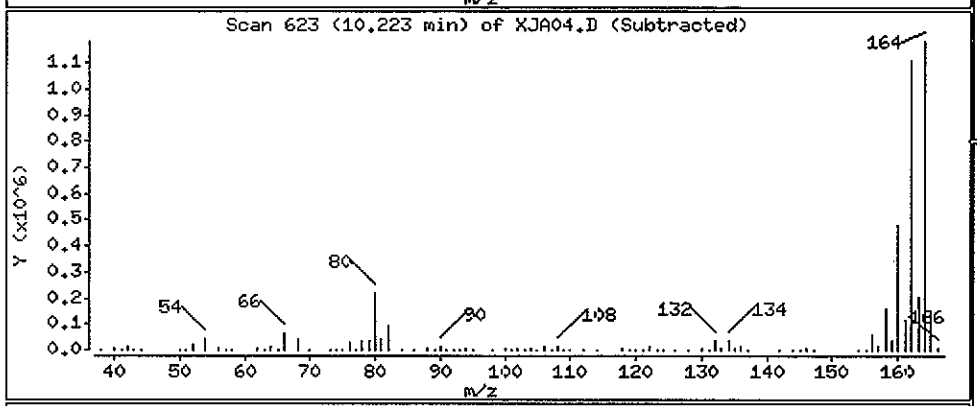
Column diameter: 0.25

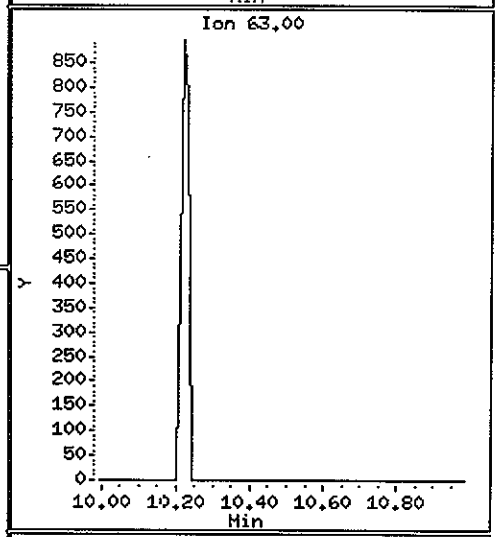
49 2,4-Dinitrotoluene

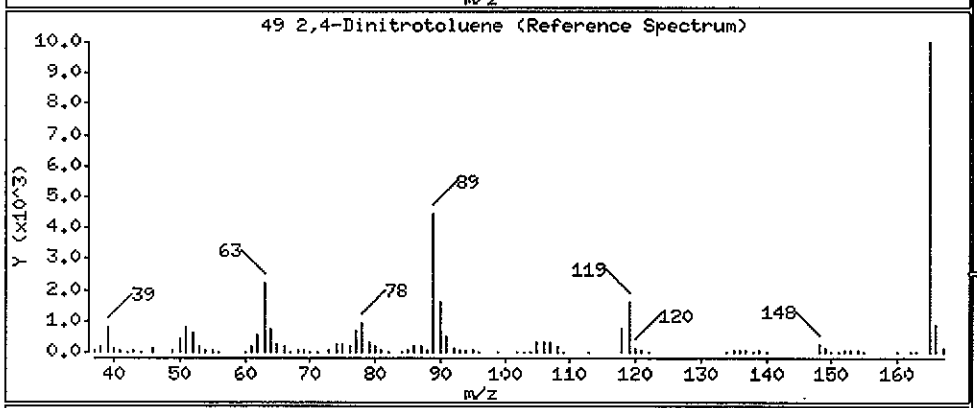
Concentration: 13.2952 ug/L

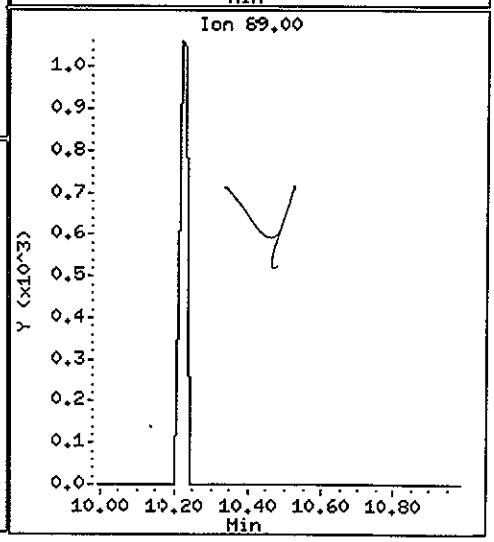


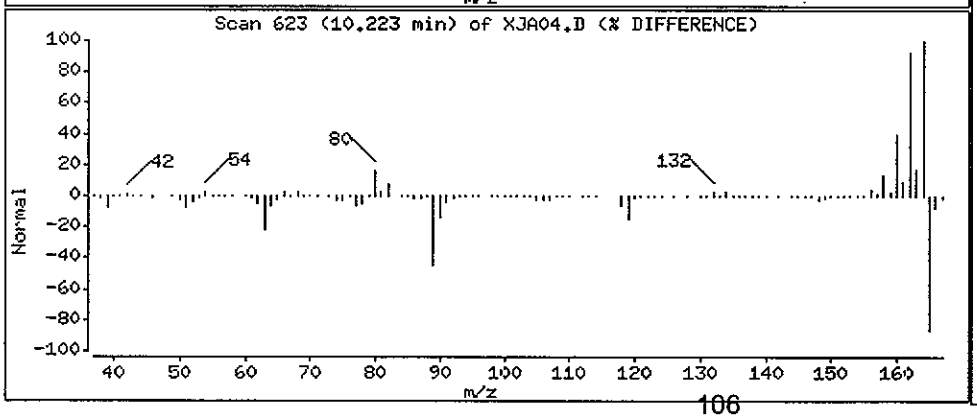












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

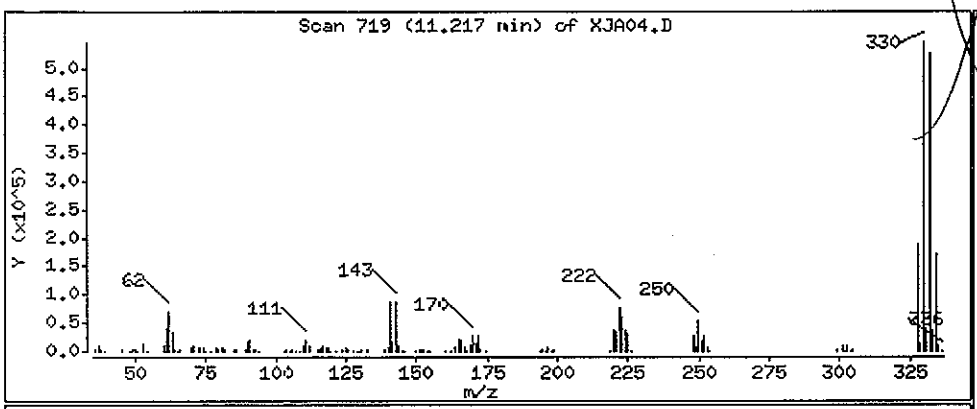
Operator: DL

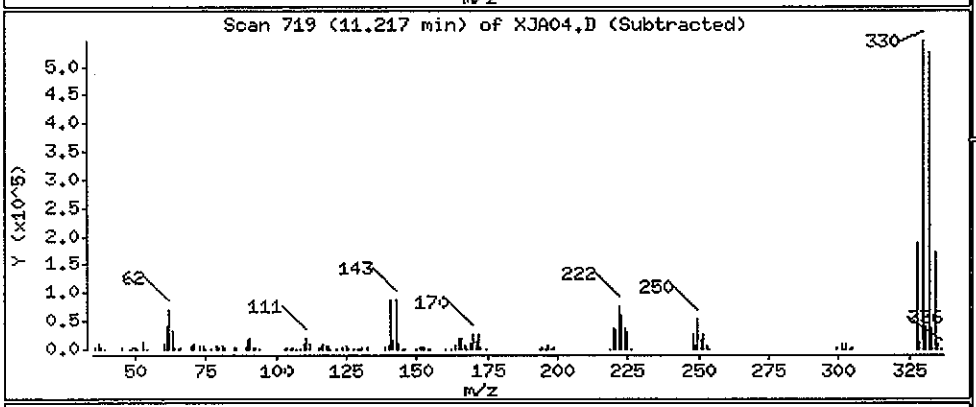
Column phase: Xti 5 x .5 u

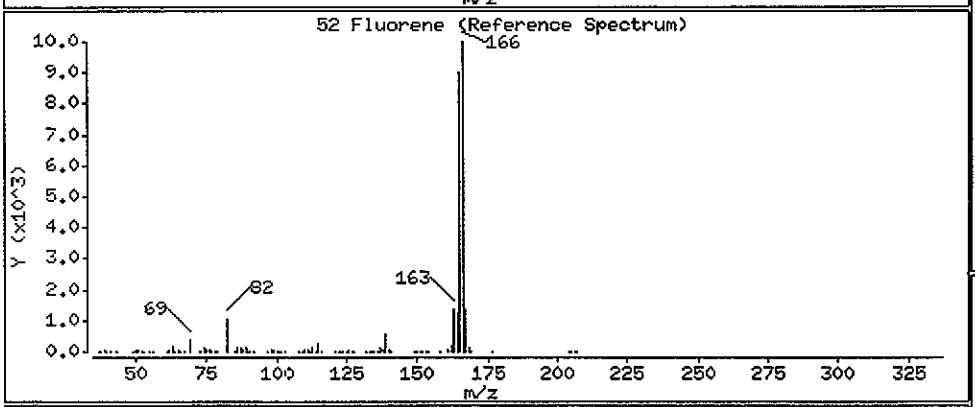
Column diameter: 0.25

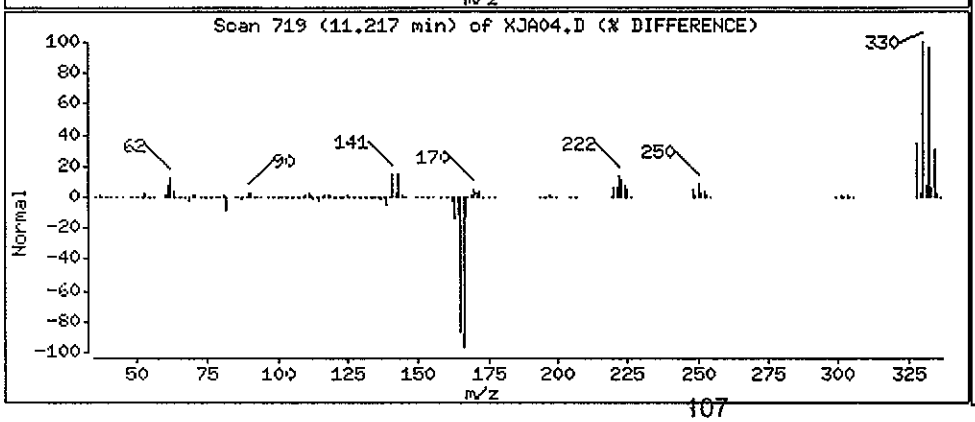
52 Fluorene

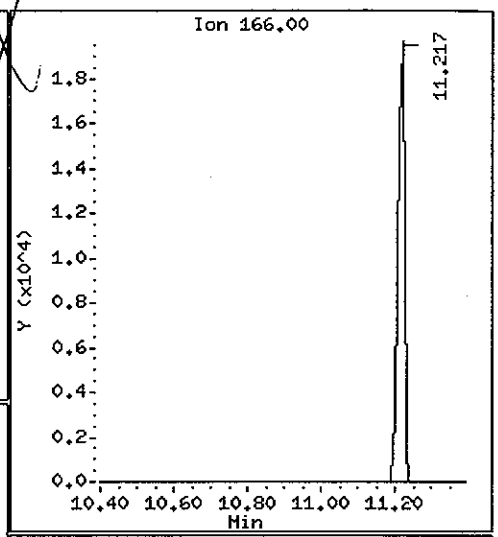
Concentration: 0.4604 ug/L

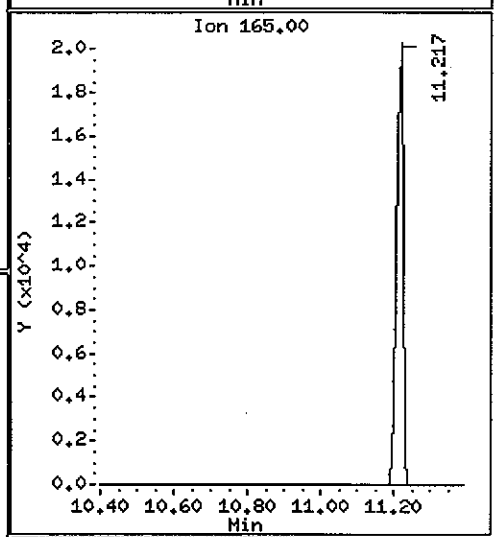


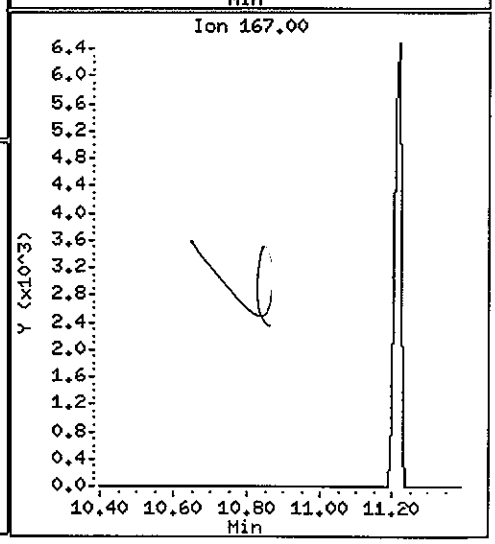












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

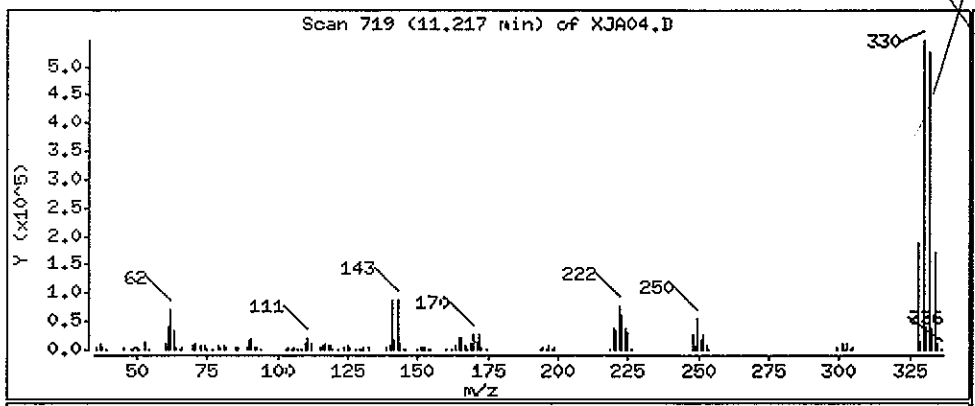
Operator: DL

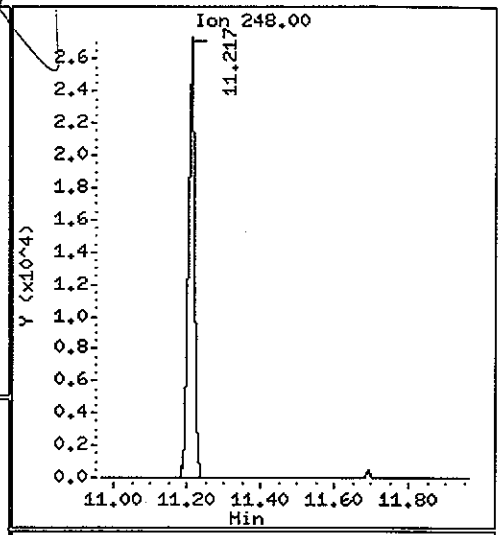
Column phase: Xti 5 x .5 u

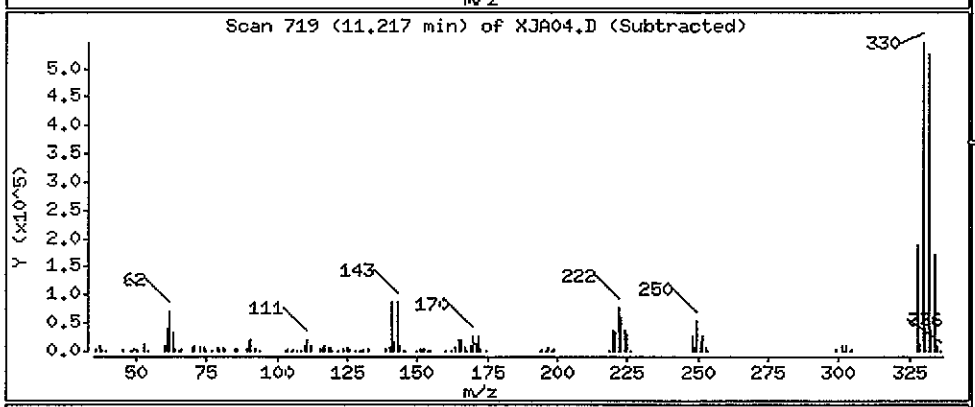
Column diameter: 0.25

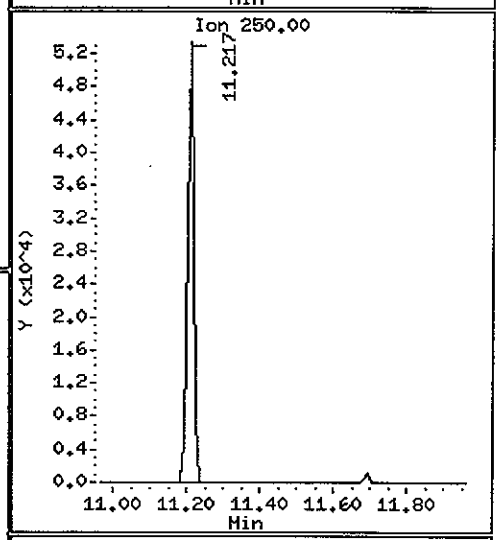
58 4-Bromophenyl-phenylether

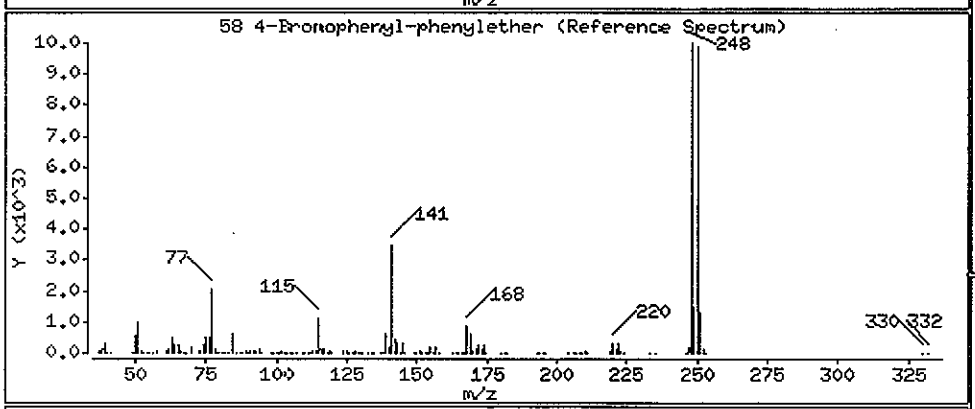
Concentration: 1.4737 ug/L

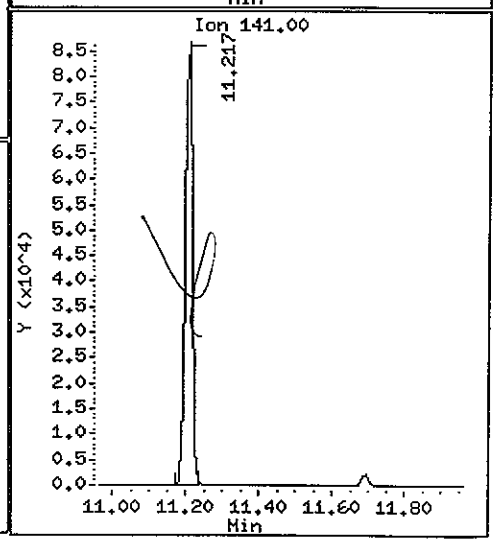


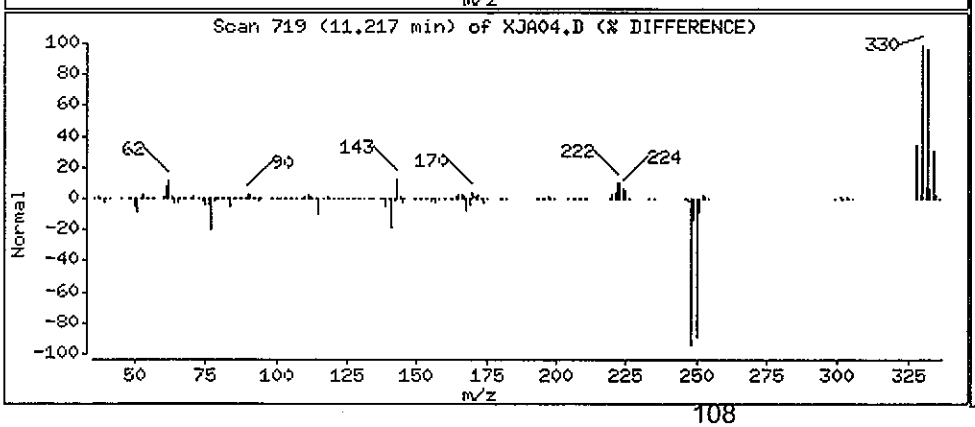












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

Volume Injected (uL): 1.0

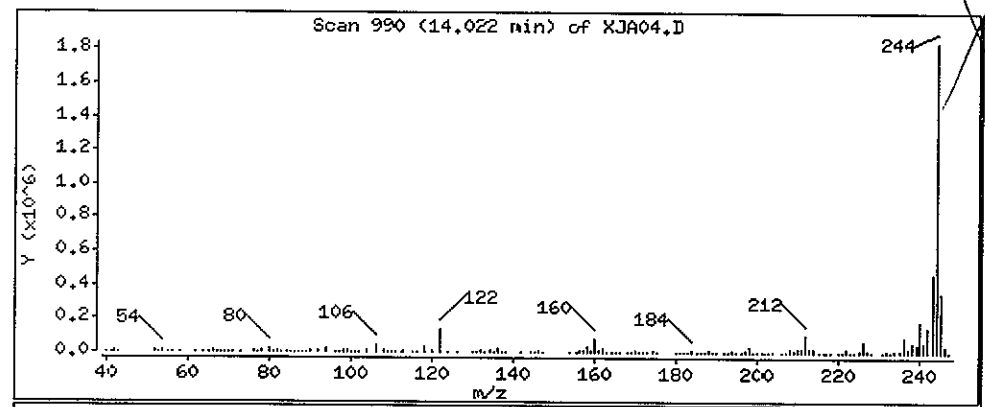
Operator: DL

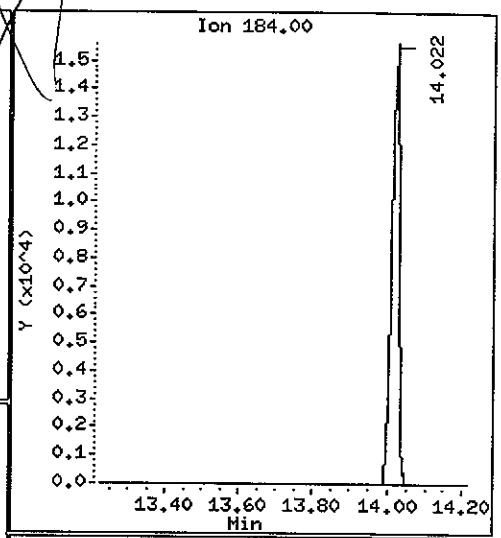
Column phase: Xti 5 x .5 u

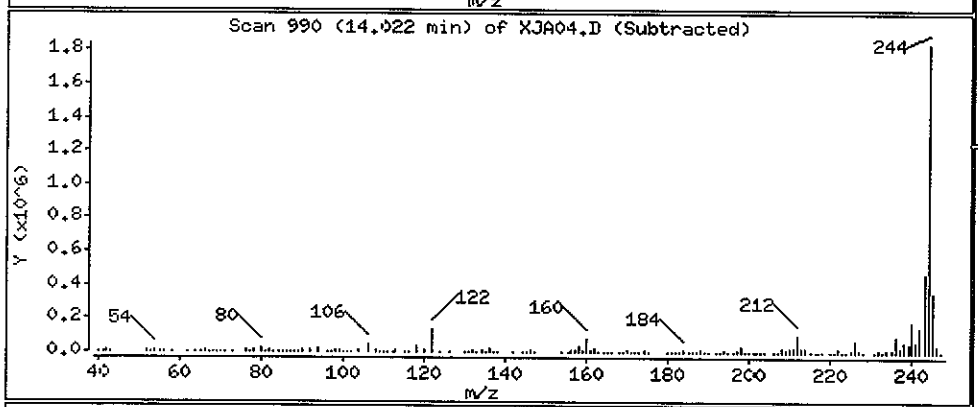
Column diameter: 0.25

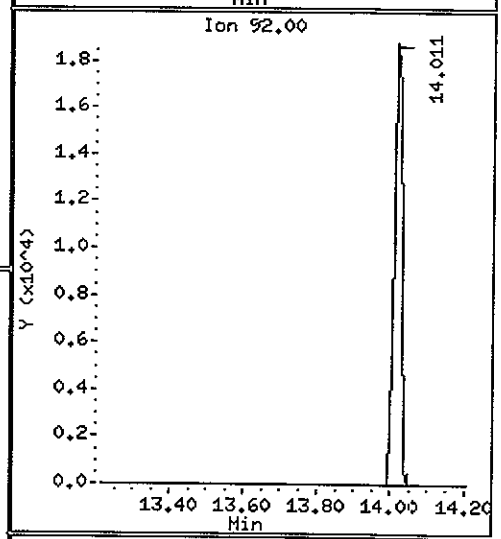
67 Benzidine

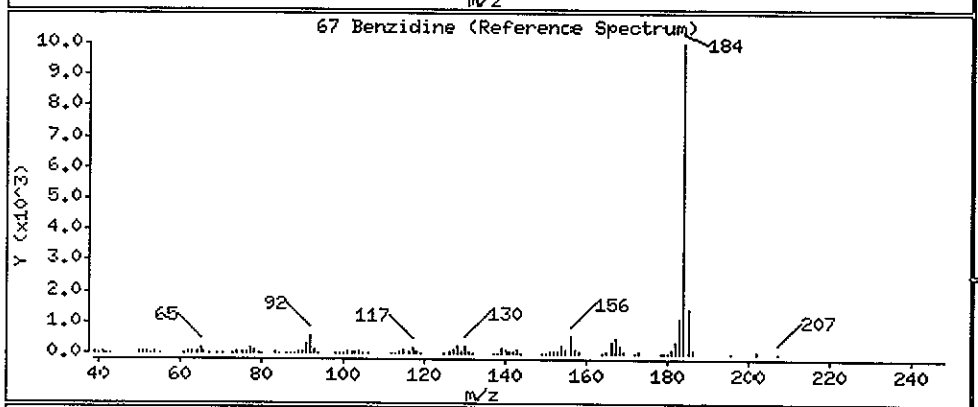
Concentration: 1.8505 ug/L

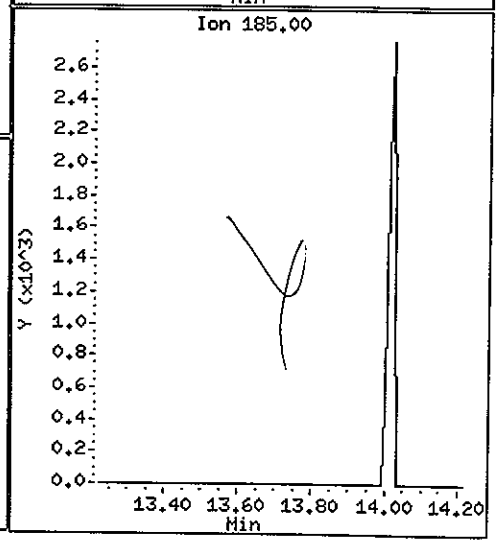


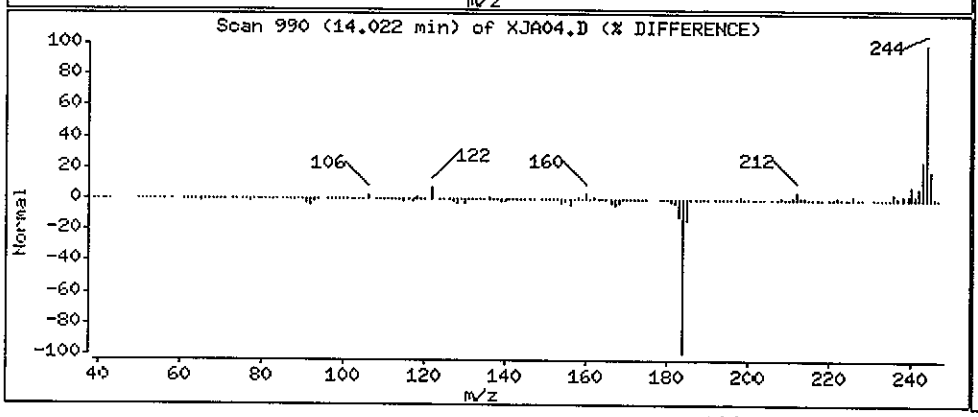












Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA05.i

Sample Info: MB,QC267414

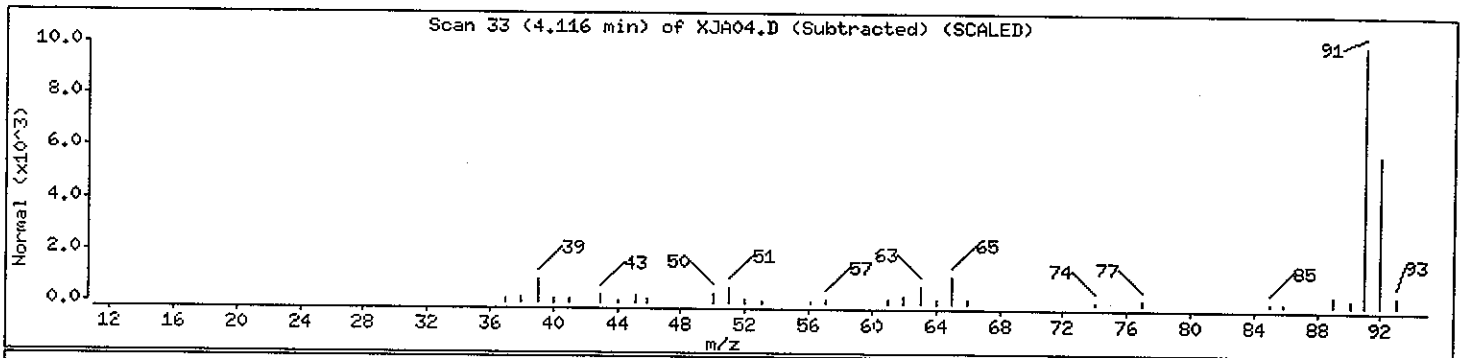
Volume Injected (uL): 1.0

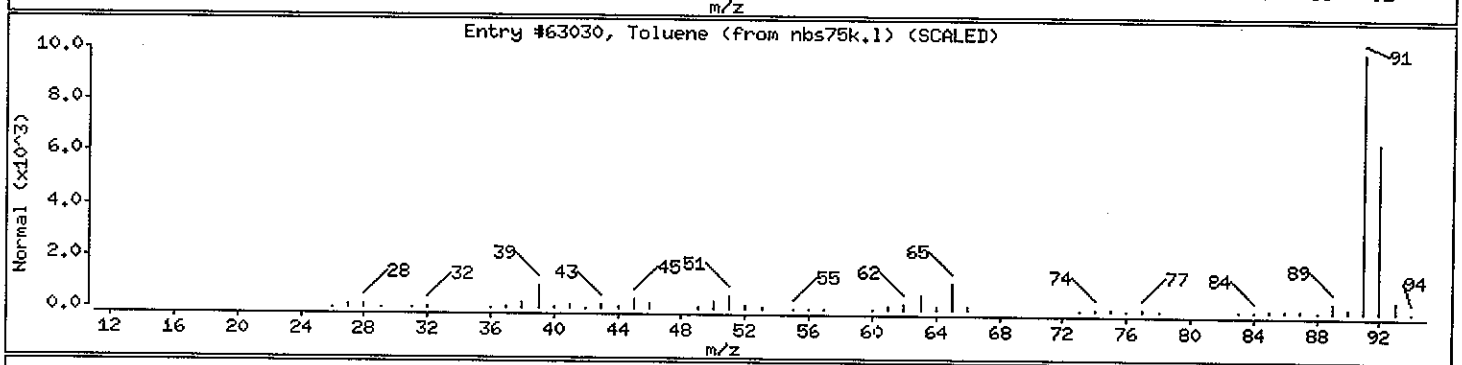
Operator: DL

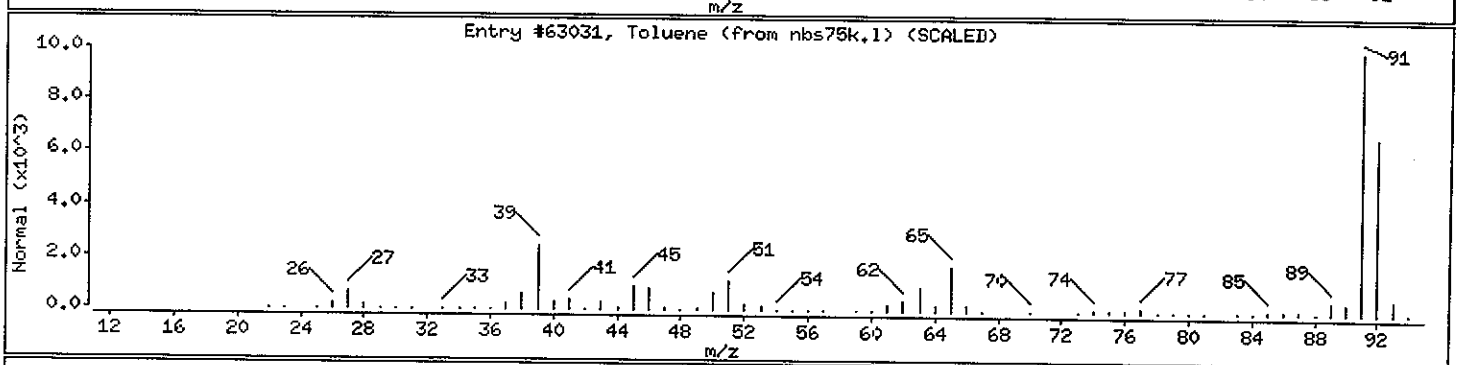
Column phase: Xti 5 x .5 u

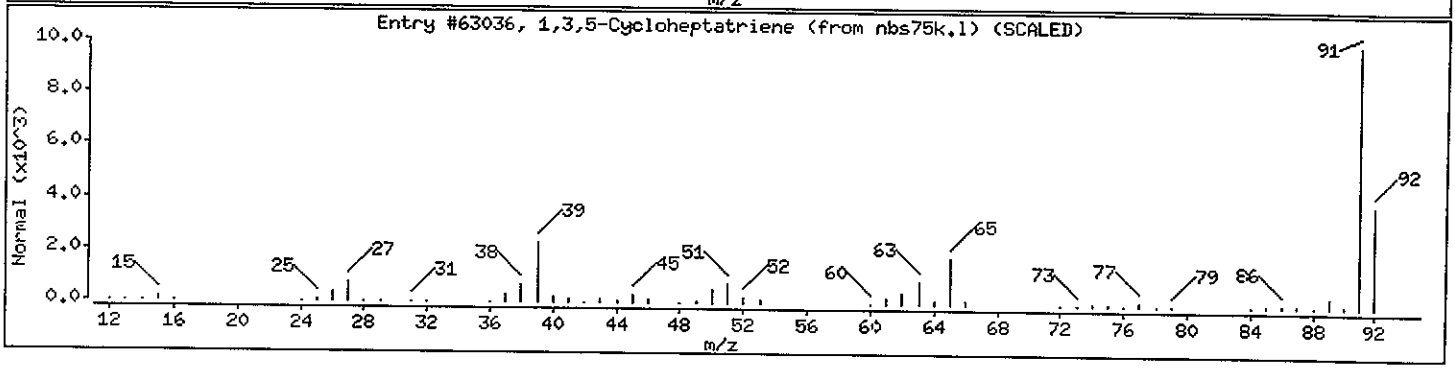
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Toluene	108-88-3	nbs75k.l	63030	94	C7H8	92
Toluene	108-88-3	nbs75k.l	63031	91	C7H8	92
1,3,5-Cycloheptatriene	544-25-2	nbs75k.l	63036	90	C7H8	92









Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA04.D

Date : 10-OCT-2004 14:41

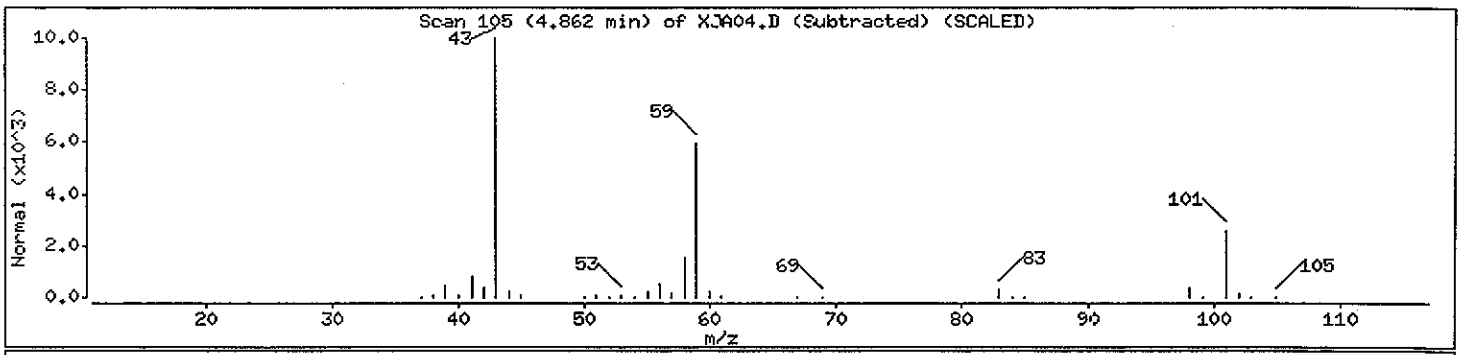
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA05.i

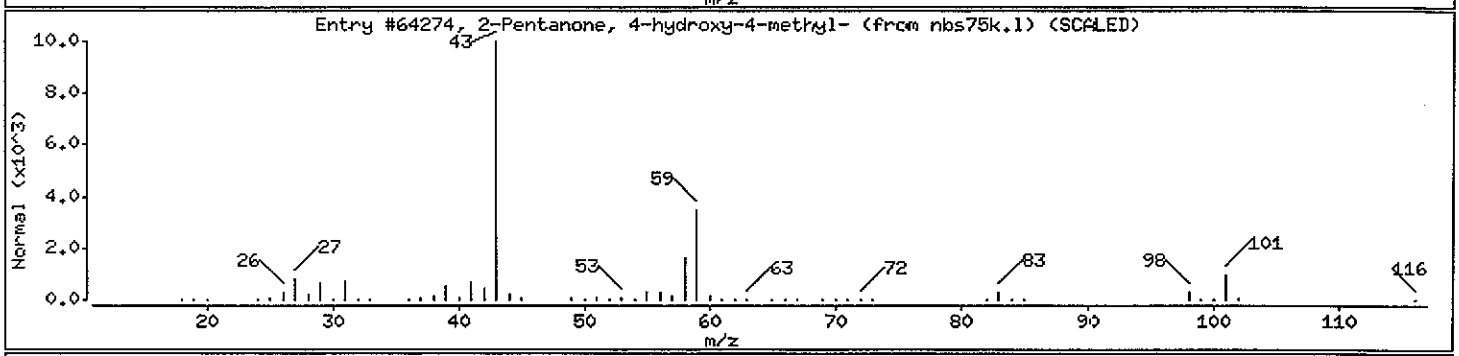
Sample Info: MB,QC267414

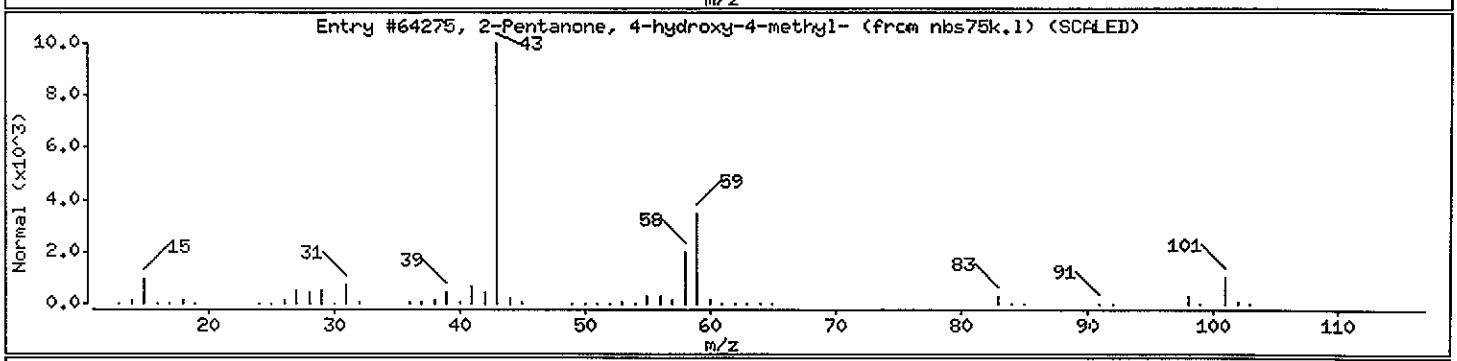
Volume Injected (uL): 1.0 | Operator: DL

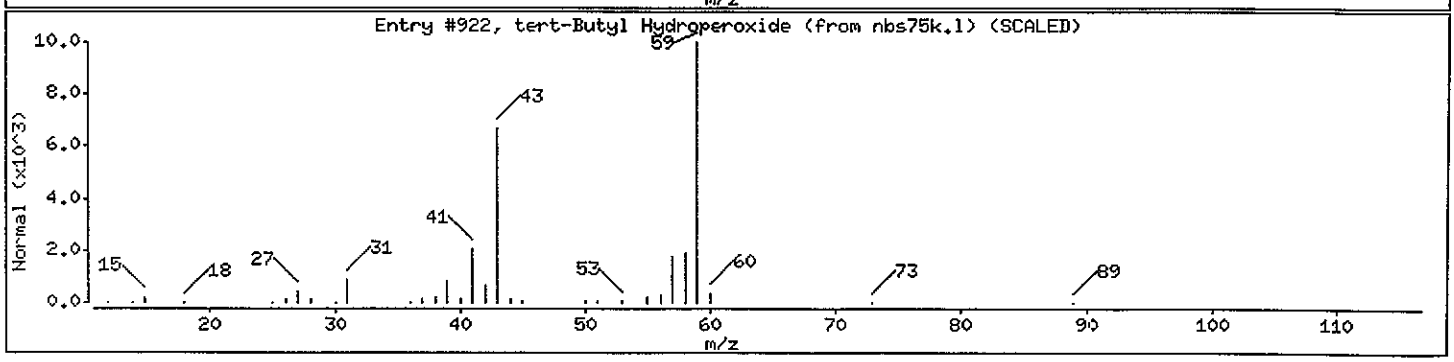
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	38	C6H12O2	116
tert-Butyl Hydroperoxide	75-91-2	nbs75k.l	922	25	C4H10O2	90









SPIKE USER REPORT FOR BATCH 95302
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05
Seqnum : 544409748005
Filename : xja05
IDF : 1.0
Run type : LCS
Samplenum: QC267415
Matrix : Soil
Batchnum : 95302
Inj : 10-OCT-2004 15:19

LCS: 29.75 g --> 1.0 ml = 0.03361 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3361	1760	52	40-119	ug/Kg	
2-Chlorophenol	3361	2024	60	43-119	ug/Kg	
1,4-Dichlorobenzene	1681	969.9	58	47-111	ug/Kg	
N-Nitroso-di-n-propylamine	1681	943.7	56	41-117	ug/Kg	
1,2,4-Trichlorobenzene	1681	952.7	57	45-107	ug/Kg	
4-Chloro-3-methylphenol	3361	1935	58	43-120	ug/Kg	
Acenaphthene	1681	914.0	54	42-111	ug/Kg	
4-Nitrophenol	3361	1965	58	45-120	ug/Kg	
2,4-Dinitrotoluene	1681	914.3	54	43-114	ug/Kg	
Pentachlorophenol	3361	1889	56	39-119	ug/Kg	
Pyrene	1681	954.9	57	40-120	ug/Kg	
Naphthalene	1681	963.8	57	45-120	ug/Kg	
Acenaphthylene	1681	873.6	52	43-120	ug/Kg	
Fluorene	1681	943.4	56	44-120	ug/Kg	
Phenanthrene	1681	976.7	58	43-120	ug/Kg	
Anthracene	1681	931.4	55	41-120	ug/Kg	
Fluoranthene	1681	936.2	56	43-120	ug/Kg	
Benzo(a)anthracene	1681	906.6	54	43-120	ug/Kg	
Chrysene	1681	880.1	52	43-120	ug/Kg	
Benzo(b)fluoranthene	1681	1040	62	34-120	ug/Kg	v+ b
Benzo(k)fluoranthene	1681	1095	65	39-120	ug/Kg	
Benzo(a)pyrene	1681	1019	61	41-120	ug/Kg	
Indeno(1,2,3-cd)pyrene	1681	1112	66	27-125	ug/Kg	
Dibenz(a,h)anthracene	1681	1141	68	29-132	ug/Kg	
Benzo(g,h,i)perylene	1681	1115	66	20-134	ug/Kg	
2-Fluorophenol	3361	1943	58	33-120	ug/Kg	
Phenol-d5	3361	1833	55	31-113	ug/Kg	
2,4,6-Tribromophenol	3361	1960	58	32-120	ug/Kg	
Nitrobenzene-d5	1681	916.7	55	43-120	ug/Kg	
2-Fluorobiphenyl	1681	919.8	55	48-115	ug/Kg	
Terphenyl-d14	1681	852.7	51	37-120	ug/Kg	

10/13/04

+=high bias b=noncompliant v=ICV

SPIKE USER REPORT FOR BATCH 95302
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05
Seqnum : 544409748005
Filename : xja05
IDF : 1.0
Run type : LCS
Samplenum: QC267415
Matrix : Soil
Batchnum : 95302
Inj : 10-OCT-2004 15:19

ISTD (CCV=xja02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	452611	691342	52.75	6.54	6.54	0.00
Naphthalene-d8	1629798	2523116	54.81	8.05	8.05	0.00
Acenaphthene-d10	1050319	1761564	67.72	10.23	10.23	0.00
Phenanthrene-d10	2059901	3558658	72.76	12.07	12.08	0.02
Chrysene-d12	2085148	3500447	67.88	15.67	15.68	0.01
Perylene-d12	1963729	2950460	50.25	19.07	19.08	0.01

+=high bias b=noncompliant v=ICV

113

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05
Seqnum : 544409748005
Filename : xja05
IDF : 1.0
Run type : LCS
Samplenum: QC267415
Matrix : Soil
Batchnum : 95302
Inj : 10-OCT-2004 15:19

LCS: 29.75 g --> 1.0 ml = 0.03361 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3361	1760	52	37-120	ug/Kg	
2-Chlorophenol	3361	2024	60	43-120	ug/Kg	
1,4-Dichlorobenzene	1681	969.9	58	47-120	ug/Kg	
N-Nitroso-di-n-propylamine	1681	943.7	56	41-120	ug/Kg	
1,2,4-Trichlorobenzene	1681	952.7	57	45-120	ug/Kg	
4-Chloro-3-methylphenol	3361	1935	58	43-120	ug/Kg	
Acenaphthene	1681	914.0	54	42-120	ug/Kg	
4-Nitrophenol	3361	1965	58	28-124	ug/Kg	
2,4-Dinitrotoluene	1681	914.3	54	39-120	ug/Kg	
Pentachlorophenol	3361	1889	56	29-120	ug/Kg	
Pyrene	1681	954.9	57	40-120	ug/Kg	
bis(2-Chloroethyl)ether	1681	921.9	55	37-120	ug/Kg	
1,3-Dichlorobenzene	1681	969.9	58	45-120	ug/Kg	
Benzyl alcohol	1681	989.7	59	44-120	ug/Kg	
1,2-Dichlorobenzene	1681	979.0	58	47-120	ug/Kg	
2-Methylphenol	3361	1945	58	45-122	ug/Kg	
bis(2-Chloroisopropyl) ether	1681	930.1	55	29-128	ug/Kg	
4-Methylphenol	3361	1863	55	42-120	ug/Kg	
Hexachloroethane	1681	982.9	58	45-120	ug/Kg	
Nitrobenzene	1681	908.9	54	46-120	ug/Kg	
Isophorone	1681	916.7	55	39-120	ug/Kg	
2-Nitrophenol	3361	1935	58	45-120	ug/Kg	
2,4-Dimethylphenol	3361	1809	54	42-126	ug/Kg	
Benzoic acid	5042	2409	48	2-120	ug/Kg	v+ b*
bis(2-Chloroethoxy)methane	1681	932.1	55	44-120	ug/Kg	
2,4-Dichlorophenol	3361	1796	53	41-120	ug/Kg	
Naphthalene	1681	963.8	57	45-120	ug/Kg	
4-Chloroaniline	1681	415.8	25	16-120	ug/Kg	
Hexachlorobutadiene	1681	988.6	59	42-120	ug/Kg	
2-Methylnaphthalene	1681	913.8	54	46-120	ug/Kg	
Hexachlorocyclopentadiene	3361	1986	59	22-121	ug/Kg	
2,4,6-Trichlorophenol	3361	1791	53	44-120	ug/Kg	
2,4,5-Trichlorophenol	3361	1868	56	45-120	ug/Kg	
2-Chloronaphthalene	1681	931.7	55	46-120	ug/Kg	
2-Nitroaniline	1681	827.8	49	41-120	ug/Kg	
Dimethylphthalate	1681	918.6	55	46-120	ug/Kg	
Acenaphthylene	1681	873.6	52	43-120	ug/Kg	
2,6-Dinitrotoluene	1681	897.6	53	42-120	ug/Kg	
3-Nitroaniline	1681	446.8	27	16-120	ug/Kg	

!=warning +=high bias b=noncompliant v=ICV y=RL raised

10/13/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05
Seqnum : 544409748005
Filename : xja05
IDF : 1.0
Run type : LCS
Samplenum: QC267415
Matrix : Soil
Batchnum : 95302
Inj : 10-OCT-2004 15:19

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
2,4-Dinitrophenol	3361	1298	39	3-120	ug/Kg	
Dibenzofuran	1681	903.0	54	45-120	ug/Kg	y
Diethylphthalate	1681	952.6	57	44-120	ug/Kg	
Fluorene	1681	943.4	56	44-120	ug/Kg	
4-Chlorophenyl-phenylether	1681	948.2	56	44-120	ug/Kg	
4-Nitroaniline	1681	815.9	49	37-120	ug/Kg	
4,6-Dinitro-2-methylphenol	3361	1946	58	19-120	ug/Kg	!v+
N-Nitrosodiphenylamine	1681	917.9	55	40-120	ug/Kg	
Azobenzene	1681	862.2	51	42-120	ug/Kg	
4-Bromophenyl-phenylether	1681	904.8	54	43-120	ug/Kg	
Hexachlorobenzene	1681	930.4	55	39-120	ug/Kg	
Phenanthrene	1681	976.7	58	43-120	ug/Kg	
Anthracene	1681	931.4	55	41-120	ug/Kg	
Di-n-butylphthalate	1681	931.1	55	43-121	ug/Kg	
Fluoranthene	1681	936.2	56	43-120	ug/Kg	
Butylbenzylphthalate	1681	908.2	54	40-120	ug/Kg	
3,3'-Dichlorobenzidine	1681	438.1	26	11-120	ug/Kg	
Benzo(a)anthracene	1681	906.6	54	43-120	ug/Kg	
Chrysene	1681	880.1	52	43-120	ug/Kg	
bis(2-Ethylhexyl)phthalate	1681	918.0	55	36-137	ug/Kg	
Di-n-octylphthalate	1681	976.4	58	34-122	ug/Kg	
Benzo(b)fluoranthene	1681	1040	62	34-120	ug/Kg	v+ b*
Benzo(k)fluoranthene	1681	1095	65	39-120	ug/Kg	
Benzo(a)pyrene	1681	1019	61	41-120	ug/Kg	
Indeno(1,2,3-cd)pyrene	1681	1112	66	27-125	ug/Kg	
Dibenz(a,h)anthracene	1681	1141	68	29-132	ug/Kg	
Benzo(g,h,i)perylene	1681	1115	66	20-134	ug/Kg	
2-Fluorophenol	3361	1943	58	33-120	ug/Kg	
Phenol-d5	3361	1833	55	31-120	ug/Kg	
2,4,6-Tribromophenol	3361	1960	58	32-120	ug/Kg	
Nitrobenzene-d5	1681	916.7	55	43-120	ug/Kg	
2-Fluorobiphenyl	1681	919.8	55	48-120	ug/Kg	
Terphenyl-d14	1681	852.7	51	37-120	ug/Kg	

!=warning +=high bias b=noncompliant v=ICV y=RL raised

10/15/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05
Seqnum : 544409748005
Filename : xja05
IDF : 1.0
Run type : LCS
Samplenum: QC267415
Matrix : Soil
Batchnum : 95302
Inj : 10-OCT-2004 15:19

ISTD (CCV=xja02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	452611	691342	52.75	6.54	6.54	0.00
Naphthalene-d8	1629798	2523116	54.81	8.05	8.05	0.00
Acenaphthene-d10	1050319	1761564	67.72	10.23	10.23	0.00
Phenanthrene-d10	2059901	3558658	72.76	12.07	12.08	0.02
Chrysene-d12	2085148	3500447	67.88	15.67	15.68	0.01
Perylene-d12	1963729	2950460	50.25	19.07	19.08	0.01

!=warning +=high bias b=noncompliant v=ICV y=RL raised

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA05.D
Report Date: 11-Oct-2004 11:41

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-OCT-2004 15:19 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : LCS,QC267415
Misc Info : 95302,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\6PTBNA5.m
Meth Date : 10-Oct-2004 14:34 tapsvc Quant Type: ISTD
Cal Date : 06-OCT-2004 16:01 Cal File: XJ610.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 Pyridine	79	3.878	3.888	(0.593)	519442	28.9709	28.9708(M)
2 N-Nitrosodimethylamine	42	3.898	3.898	(0.596)	194438	28.3635	28.3635
$ 3 2-Fluorophenol	112	5.202	5.171	(0.796)	1098298	57.7951	57.7951
$ 4 Phenol-d5	99	6.144	6.124	(0.940)	1243202	54.5237	54.5237
5 Phenol	94	6.155	6.134	(0.941)	1250754	52.3607	52.3606
7 bis(2-Chloroethyl)ether	63	6.248	6.248	(0.956)	348792	27.4280	27.4280
8 2-Chlorophenol	128	6.351	6.341	(0.972)	1260109	60.2119	60.2119
9 1,3-Dichlorobenzene	146	6.496	6.496	(0.994)	745816	28.8558	28.8557
* 10 1,4-Dichlorobenzene-d4	152	6.538	6.538	(1.000)	691342	40.0000	
11 1,4-Dichlorobenzene	146	6.558	6.558	(1.003)	737120	28.8552	28.8551
12 Benzyl alcohol	108	6.703	6.693	(1.025)	350787	29.4446	29.4446
13 1,2-Dichlorobenzene	146	6.776	6.776	(1.036)	702326	29.1252	29.1252
14 2-Methylphenol	107	6.817	6.807	(1.043)	818674	57.8519	57.8518
15 bis(2-Chloroisopropyl) ether	45	6.848	6.858	(1.047)	700014	27.6692	27.6691

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA05.D
Report Date: 11-Oct-2004 11:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	16 4-Methylphenol	107	6.983	6.972	(1.068)	1220950	55.4378	55.4377
	17 N-Nitroso-di-n-propylamine	70	7.045	7.034	(1.078)	271419	28.0749	28.0749
	18 Hexachloroethane	117	7.128	7.128	(1.090)	254478	29.2418	29.2417
$	19 Nitrobenzene-d5	82	7.210	7.210	(0.896)	502790	27.2712	27.2711
	20 Nitrobenzene	77	7.231	7.231	(0.898)	480481	27.0410	27.0409
	21 Isophorone	82	7.511	7.490	(0.933)	900974	27.2715	27.2714
	22 2,4-Dimethylphenol	122	7.604	7.604	(0.945)	912283	53.8286	53.8285
	23 2-Nitrophenol	139	7.614	7.604	(0.946)	703507	57.5758	57.5757
	24 bis(2-Chloroethoxy)methane	93	7.728	7.718	(0.960)	639800	27.7306	27.7306
	25 Benzoic acid	122	7.811	7.749	(0.970)	773071	71.6656	71.6655
	26 2,4-Dichlorophenol	162	7.873	7.873	(0.978)	1079783	53.4212	53.4211
	27 1,2,4-Trichlorobenzene	180	7.987	7.987	(0.992)	701994	28.3429	28.3428
*	28 Naphthalene-d8	136	8.049	8.049	(1.000)	2523116	40.0000	
	29 Naphthalene	128	8.070	8.069	(1.003)	1707125	28.6741	28.6741
	30 4-Chloroaniline	127	8.142	8.142	(1.012)	305747	12.3712	12.3712
	31 Hexachlorobutadiene	225	8.256	8.256	(1.026)	477693	29.4094	29.4093
	32 4-Chloro-3-methylphenol	107	8.691	8.690	(1.080)	920349	57.5543	57.5542
	33 2-Methylnaphthalene	142	8.898	8.897	(1.105)	1246605	27.1865	27.1865
	34 Hexachlorocyclopentadiene	237	9.167	9.167	(0.896)	849032	59.0924	59.0924
	35 2,4,6-Trichlorophenol	196	9.270	9.270	(0.906)	976536	53.2850	53.2850
	36 2,4,5-Trichlorophenol	196	9.322	9.312	(0.911)	1007112	55.5646	55.5645
$	37 2-Fluorobiphenyl	172	9.363	9.363	(0.915)	1473860	27.3648	27.3648
	38 2-Chloronaphthalene	162	9.508	9.508	(0.929)	1270751	27.7181	27.7180
	39 2-Nitroaniline	65	9.663	9.663	(0.944)	232116	24.6271	24.6271
	40 Dimethylphthalate	163	9.891	9.891	(0.967)	1516474	27.3276	27.3275
	41 2,6-Dinitrotoluene	165	10.005	10.005	(0.978)	358100	26.7037	26.7036
	42 Acenaphthylene	152	10.036	10.046	(0.981)	1871343	25.9886	25.9885
	43 3-Nitroaniline	138	10.181	10.191	(0.995)	169182	13.2919	13.2918
*	44 Acenaphthene-d10	164	10.233	10.233	(1.000)	1761564	40.0000	
	45 Acenaphthene	154	10.274	10.274	(1.004)	1203957	27.1910	27.1909
	46 2,4-Dinitrophenol	184	10.305	10.305	(1.007)	303446	38.6047	38.6047
	47 4-Nitrophenol	109	10.367	10.347	(1.013)	250618	58.4456	58.4455
	48 Dibenzofuran	168	10.460	10.460	(1.022)	1837961	26.8651	26.8651
	49 2,4-Dinitrotoluene	165	10.491	10.491	(1.025)	468820	27.2011	27.2010
	50 Diethylphthalate	149	10.761	10.761	(1.052)	1460077	28.3392	28.3392
	51 4-Chlorophenyl-phenylether	204	10.854	10.854	(1.061)	856561	28.2091	28.2090
	52 Fluorene	166	10.895	10.895	(1.065)	1560368	28.0656	28.0655
	53 4-Nitroaniline	138	10.968	10.968	(1.072)	270932	24.2739	24.2738
	54 4,6-Dinitro-2-methylphenol	198	11.009	11.009	(0.912)	648315	57.9008	57.9008
	55 N-Nitrosodiphenylamine	169	11.030	11.019	(0.913)	1064656	27.3081	27.3081
	56 Azobenzene	77	11.061	11.061	(0.916)	1022106	25.6512	25.6512
$	57 2,4,6-Tribromophenol	330	11.226	11.226	(1.097)	769888	58.3079	58.3078
	58 4-Bromophenyl-phenylether	248	11.464	11.464	(0.949)	614670	26.9186	26.9186
	59 Hexachlorobenzene	284	11.682	11.682	(0.967)	702347	27.6794	27.6793
	60 Pentachlorophenol	266	11.899	11.899	(0.985)	915009	56.1924	56.1923
*	61 Phenanthrene-d10	188	12.075	12.065	(1.000)	3558658	40.0000	
	62 Phenanthrene	178	12.096	12.096	(1.002)	2466702	29.0562	29.0562

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA05.D
Report Date: 11-Oct-2004 11:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	63 Anthracene	178	12.158	12.158	(1.007)	2434192	27.7083	27.7083
	64 Carbazole	167	12.334	12.344	(1.021)	12071	0.17370	0.1737(M)
	65 Di-n-butylphthalate	149	12.748	12.748	(1.056)	2728869	27.7014	27.7014
	66 Fluoranthene	202	13.586	13.586	(1.125)	3036100	27.8513	27.8513
	67 Benzidine	184	13.710	13.721	(0.875)	130677	11.8231	11.8230
	68 Pyrene	202	13.876	13.876	(0.885)	3105599	28.4095	28.4094
S	69 Terphenyl-d14	244	14.021	14.021	(0.894)	2323988	25.3672	25.3671
	70 Butylbenzylphthalate	149	14.663	14.663	(0.935)	1193472	27.0185	27.0185
	71 3,3'-Dichlorobenzidine	252	15.573	15.573	(0.993)	534935	13.0345	13.0345
	72 Benzo(a)anthracene	228	15.625	15.625	(0.997)	3014874	26.9725	26.9724
*	73 Chrysene-d12	240	15.677	15.667	(1.000)	3500447	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.563	15.563	(0.993)	1756097	27.3116	27.3116
	75 Chrysene	228	15.718	15.718	(1.003)	2647761	26.1825	26.1824
	76 Di-n-octylphthalate	149	16.805	16.805	(0.881)	3030494	29.0471	29.0470
	77 Benzo(b)fluoranthene	252	18.006	18.016	(0.944)	3432066	30.9407	30.9407
	78 Benzo(k)fluoranthene	252	18.078	18.078	(0.947)	3065391	32.5841	32.5840
	79 Benzo(a)pyrene	252	18.896	18.906	(0.990)	2886273	30.3244	30.3243
*	80 Perylene-d12	264	19.082	19.072	(1.000)	2950460	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	22.342	22.353	(1.171)	3360766	33.0717	33.0716
	82 Dibenz(a,h)anthracene	278	22.384	22.394	(1.173)	2810089	33.9332	33.9332
	83 Benzo(g,h,i)perylene	276	23.098	23.108	(1.210)	2612271	33.1743	33.1742

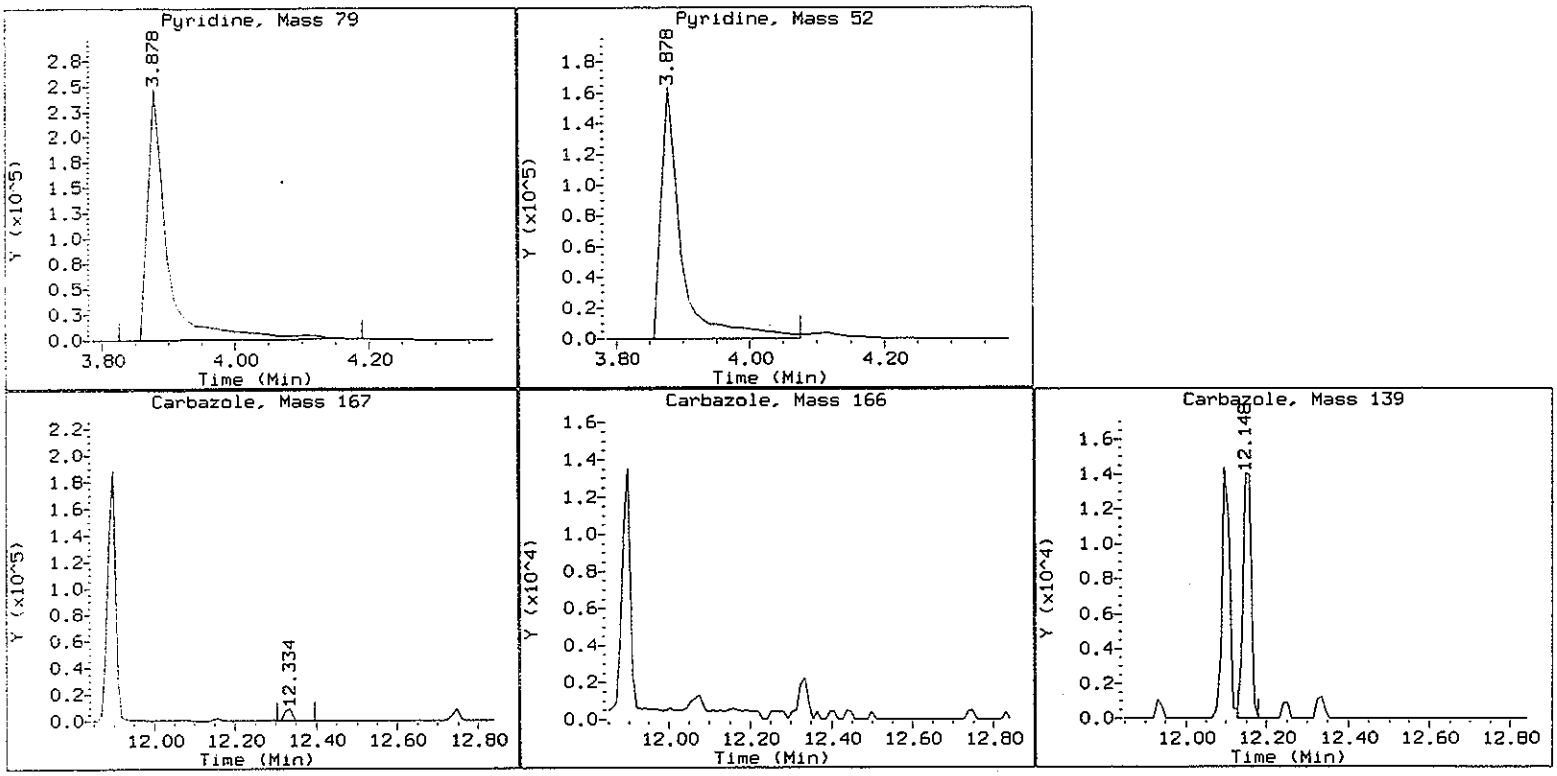
QC Flag Legend

M - Compound response manually integrated.

Signal Manual Integrations Report

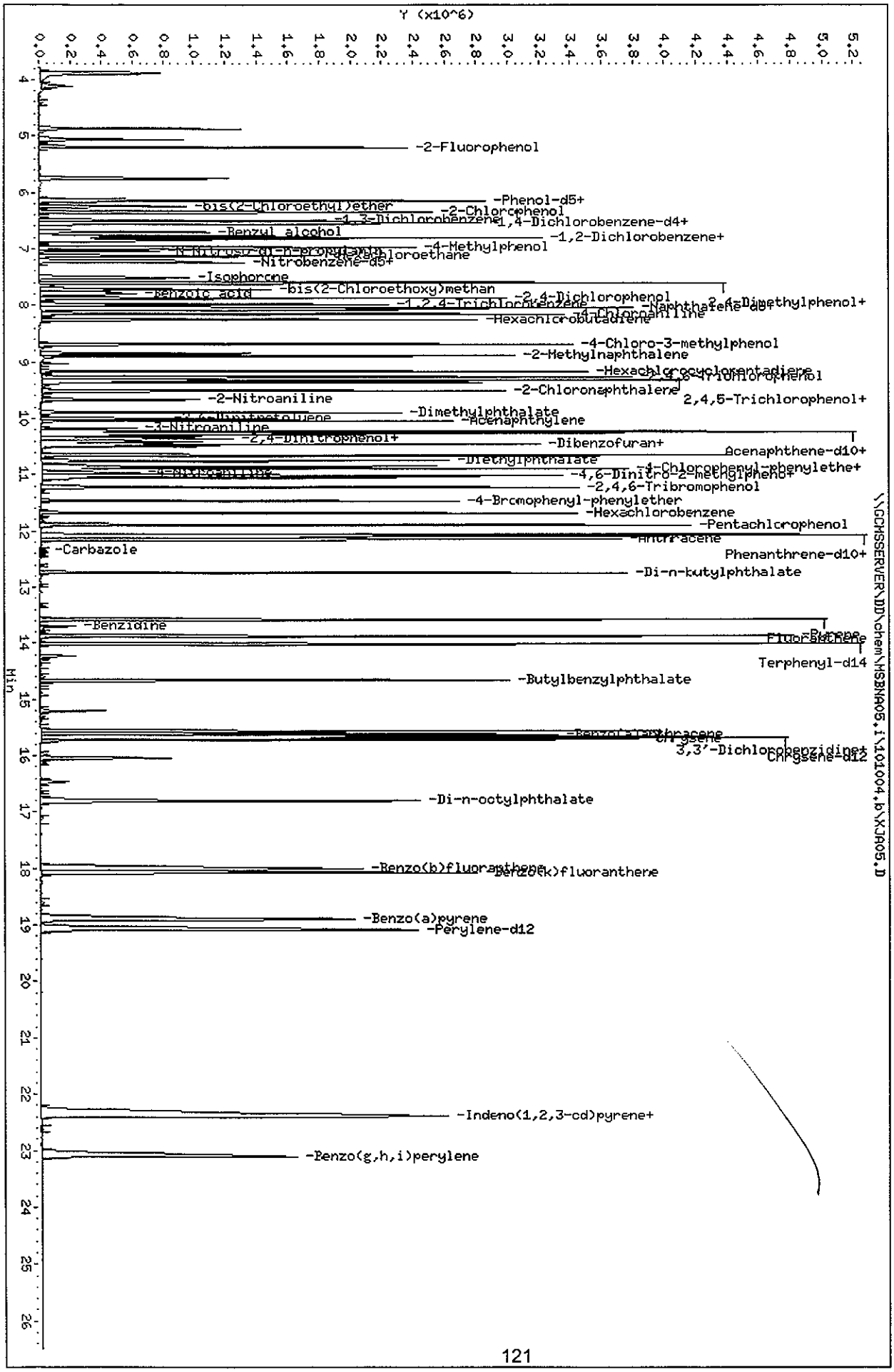
Report Date: 10/11/2004 11:41

Datafile: //GCMSSERVER/DD/chem/MSBNA05.i/101004.b/XJA05.D
Injection Date: 10-OCT-2004 15:19
Lab ID: Client ID:CURTIS&TOMPKINS



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA05.D
Date : 10-OCT-2004 15:19
Client ID: CURTIS&TOMPKINS
Sample Info: LCS,Q0267415
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



SPIKE USER REPORT FOR BATCH 95302
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05	Instid : MSBNA05	Instid : MSBNA05
Seqnum : 544412502005	Seqnum : 544409748011	Seqnum : 544409748012
Filename : xjc05	Filename : xja11	Filename : xja12
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174942-010	Samplenum: QC267416	Samplenum: QC267417
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95302	Batchnum : 95302	Batchnum : 95302
Inj : 12-OCT-2004 13:13	Inj : 10-OCT-2004 19:02	Inj : 10-OCT-2004 19:38

MSS: 30.15 g --> 1.0 ml = 0.03317 ml/g PDF
MS: 30.29 g --> 1.0 ml = 0.03301 ml/g PDF
MSD: 30.11 g --> 1.0 ml = 0.03321 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Phenol	ND	3321	1657	50	1814	55	37-100	ug/Kg	8	34	
2-Chlorophenol	ND	3321	1869	57	2064	62	41-102	ug/Kg	9	34	
1,4-Dichlorobenzene	ND	1661	855.9	52	981.0	59	49-104	ug/Kg	13	27	
N-Nitroso-di-n-propylamine	ND	1661	879.1	53	997.1	60	45-120	ug/Kg	12	33	
1,2,4-Trichlorobenzene	ND	1661	861.4	52	961.4	58	46-107	ug/Kg	10	23	
4-Chloro-3-methylphenol	ND	3321	1802	55	2023	61	39-103	ug/Kg	11	32	
Acenaphthene	ND	1661	833.5	50	921.0	55	45-120	ug/Kg	9	19	u
4-Nitrophenol	ND	3321	1848	56	2011	61	28-114	ug/Kg	8	37	
2,4-Dinitrotoluene	ND	1661	836.6	51	918.5	55	41-100	ug/Kg	9	35	
Pentachlorophenol	ND	3321	1309	40	1268	38	17-109	ug/Kg	4	47	
Pyrene	307.0	1661	1053	45	1181	53	35-132	ug/Kg	11	36	u
Naphthalene	ND	1661	880.0	53	995.4	60	45-120	ug/Kg	12	31	u
Acenaphthylene	ND	1661	821.8	50	899.3	54	44-120	ug/Kg	8	32	u
Fluorene	ND	1661	856.0	52	933.4	56	41-120	ug/Kg	8	32	u
Phenanthrene	95.90	1661	933.6	51	1030	56	44-120	ug/Kg	9	34	u
Anthracene	24.35	1661	852.8	50	934.5	55	41-120	ug/Kg	9	34	u
Fluoranthene	219.1	1661	931.4	43	1045	50	35-120	ug/Kg	11	33	u
Benzo(a)anthracene	103.4	1661	870.2	46	978.6	53	45-120	ug/Kg	11	33	u
Chrysene	137.3	1661	862.6	44	957.2	49	43-120	ug/Kg	10	34	u
Benzo(b)fluoranthene	ND	1661	1208	73	1355	82	33-120	ug/Kg	11	35	u v+ b*
Benzo(k)fluoranthene	ND	1661	1246	75	1482	89	33-122	ug/Kg	17	37	u
Benzo(a)pyrene	ND	1661	1047	63	1199	72	41-120	ug/Kg	13	36	u
Indeno(1,2,3-cd)pyrene	ND	1661	614.7	37	653.6	39	13-120	ug/Kg	6	40	u
Dibenz(a,h)anthracene	ND	1661	635.9	39	675.7	41	19-120	ug/Kg	5	37	u
Benzo(g,h,i)perylene	ND	1661	527.4	32	547.4	33	6-120	ug/Kg	3	41	u
2-Fluorophenol		3321	1794	54	2000	60	33-120	ug/Kg	--		
Phenol-d5		3321	1739	53	1890	57	31-113	ug/Kg	--		
2,4,6-Tribromophenol		3321	1802	55	1973	59	32-120	ug/Kg	--		
Nitrobenzene-d5		1661	854.5	52	973.6	59	43-120	ug/Kg	--		u
2-Fluorobiphenyl		1661	846.3	51	937.4	56	48-115	ug/Kg	--		u
Terphenyl-d14		1661	861.8	52	952.5	57	37-120	ug/Kg	--		u

+=high bias b=noncompliant u=use v=ICV

SPIKE USER REPORT FOR BATCH 95302
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05	Instid : MSBNA05	Instid : MSBNA05
Seqnum : 544412502005	Seqnum : 544409748011	Seqnum : 544409748012
Filename : xjc05	Filename : xja11	Filename : xja12
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174942-010	Samplenum: QC267416	Samplenum: QC267417
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95302	Batchnum : 95302	Batchnum : 95302
Inj : 12-OCT-2004 13:13	Inj : 10-OCT-2004 19:02	Inj : 10-OCT-2004 19:38

ISTD (CCV=xja02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	452611	689164	52.26	6.54	6.54	0.00
Naphthalene-d8	1629798	2542719	56.01	8.05	8.05	0.00
Acenaphthene-d10	1050319	1768641	68.39	10.23	10.23	0.00
Phenanthrene-d10	2059901	3516239	70.70	12.07	12.08	0.02
Chrysene-d12	2085148	3229145	54.86	15.67	15.68	0.01
Perylene-d12	1963729	1790605	-8.82	19.07	19.07	0.00

ISTD (CCV=xja02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	452611	680719	50.40	6.54	6.54	0.00
Naphthalene-d8	1629798	2496109	53.15	8.05	8.05	0.00
Acenaphthene-d10	1050319	1745542	66.19	10.23	10.23	0.00
Phenanthrene-d10	2059901	3465643	68.24	12.07	12.08	0.02
Chrysene-d12	2085148	3145371	50.85	15.67	15.68	0.01
Perylene-d12	1963729	1655312	-15.71	19.07	19.07	0.00

+=high bias b=noncompliant u=use v=ICV

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA05	Instid : MSBNA05	Instid : MSBNA05
Seqnum : 544412502005	Seqnum : 544409748011	Seqnum : 544409748012
Filename : xjc05	Filename : xja11	Filename : xja12
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 174942-010	Samplenum: QC267416	Samplenum: QC267417
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95302	Batchnum : 95302	Batchnum : 95302
Inj : 12-OCT-2004 13:13	Inj : 10-OCT-2004 19:02	Inj : 10-OCT-2004 19:38

MSS: 30.15 g --> 1.0 ml = 0.03317 ml/g PDF
MS: 30.29 g --> 1.0 ml = 0.03301 ml/g PDF
MSD: 30.11 g --> 1.0 ml = 0.03321 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Phenol	ND	3321	1657	50	1814	55	37-120	ug/Kg	8	34	
2-Chlorophenol	ND	3321	1869	57	2064	62	41-120	ug/Kg	9	34	
1,4-Dichlorobenzene	ND	1661	855.9	52	981.0	59	49-120	ug/Kg	13	32	
N-Nitroso-di-n-propylamine	ND	1661	879.1	53	997.1	60	45-120	ug/Kg	12	33	
1,2,4-Trichlorobenzene	ND	1661	861.4	52	961.4	58	46-120	ug/Kg	10	33	
4-Chloro-3-methylphenol	ND	3321	1802	55	2023	61	39-120	ug/Kg	11	32	
Acenaphthene	ND	1661	833.5	50	921.0	55	45-120	ug/Kg	9	32	
4-Nitrophenol	ND	3321	1848	56	2011	61	28-122	ug/Kg	8	37	
2,4-Dinitrotoluene	ND	1661	836.6	51	918.5	55	41-120	ug/Kg	9	35	
Pentachlorophenol	ND	3321	1309	40	1268	38	15-120	ug/Kg	4	48	
Pyrene	307.0	1661	1053	45	1181	53	34-132	ug/Kg	11	36	
2-Fluorophenol		3321	1794	54	2000	60	33-120	ug/Kg	--		
Phenol-d5		3321	1739	53	1890	57	31-120	ug/Kg	--		
2,4,6-Tribromophenol		3321	1802	55	1973	59	32-120	ug/Kg	--		
Nitrobenzene-d5		1661	854.5	52	973.6	59	43-120	ug/Kg	--		
2-Fluorobiphenyl		1661	846.3	51	937.4	56	48-120	ug/Kg	--		
Terphenyl-d14		1661	861.8	52	952.5	57	37-120	ug/Kg	--		

ISTD (CCV=xja02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	452611	689164	52.26	6.54	6.54	0.00
Naphthalene-d8	1629798	2542719	56.01	8.05	8.05	0.00
Acenaphthene-d10	1050319	1768641	68.39	10.23	10.23	0.00
Phenanthrene-d10	2059901	3516239	70.70	12.07	12.08	0.02
Chrysene-d12	2085148	3229145	54.86	15.67	15.68	0.01
Perylene-d12	1963729	1790605	-8.82	19.07	19.07	0.00

ISTD (CCV=xja02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	452611	680719	50.40	6.54	6.54	0.00
Naphthalene-d8	1629798	2496109	53.15	8.05	8.05	0.00
Acenaphthene-d10	1050319	1745542	66.19	10.23	10.23	0.00
Phenanthrene-d10	2059901	3465643	68.24	12.07	12.08	0.02
Chrysene-d12	2085148	3145371	50.85	15.67	15.68	0.01
Perylene-d12	1963729	1655312	-15.71	19.07	19.07	0.00

124

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA11.D
Report Date: 11-Oct-2004 11:42

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA11.D
Lab Smp Id:
Inj Date : 10-OCT-2004 19:02
Operator : DL
Smp Info : MS,QC267416
Misc Info : 95302,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\6PTBNA5.m
Meth Date : 10-Oct-2004 14:34 tapsvc
Cal Date : 06-OCT-2004 16:01
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: GCMSSERVER

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 21-SEP-2004 20:22
Inst ID: MSBNA05.i

Quant Type: ISTD
Cal File: XJ610.D
QC Sample: MS

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 Pyridine	79	3.888	3.888	(0.595)	475824	26.6220	26.6220(M)
2 N-Nitrosodimethylamine	42	3.898	3.898	(0.596)	177047	25.9082	25.9082
$ 3 2-Fluorophenol	112	5.202	5.171	(0.796)	1029163	54.3282	54.3282
$ 4 Phenol-d5	99	6.144	6.124	(0.940)	1197284	52.6758	52.6758
5 Phenol	94	6.155	6.134	(0.941)	1195297	50.1972	50.1972
7 bis(2-Chloroethyl)ether	63	6.248	6.248	(0.956)	329341	25.9803	25.9803
8 2-Chlorophenol	128	6.351	6.341	(0.972)	1180910	56.6059	56.6058
9 1,3-Dichlorobenzene	146	6.496	6.496	(0.994)	672732	26.1104	26.1104
* 10 1,4-Dichlorobenzene-d4	152	6.538	6.538	(1.000)	689164	40.0000	
11 1,4-Dichlorobenzene	146	6.558	6.558	(1.003)	660190	25.9254	25.9253
12 Benzyl alcohol	108	6.703	6.693	(1.025)	342505	28.8403	28.8403
13 1,2-Dichlorobenzene	146	6.776	6.776	(1.036)	639395	26.5993	26.5993
14 2-Methylphenol	107	6.817	6.807	(1.043)	793432	56.2454	56.2453
15 bis(2-Chloroisopropyl) ether	45	6.848	6.858	(1.047)	661837	26.2428	26.2428

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA11.D
Report Date: 11-Oct-2004 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	16 4-Methylphenol	107	6.983	6.972	(1.068)	1185763	54.0102	54.0102
	17 N-Nitroso-di-n-propylamine	70	7.045	7.034	(1.078)	256631	26.6292	26.6291
	18 Hexachloroethane	117	7.128	7.128	(1.090)	175433	20.2225	20.2225
$	19 Nitrobenzene-d5	82	7.210	7.210	(0.896)	480916	25.8837	25.8836
	20 Nitrobenzene	77	7.231	7.231	(0.898)	454884	25.4030	25.4030
	21 Isophorone	82	7.511	7.490	(0.933)	846373	25.4213	25.4212
	22 2,4-Dimethylphenol	122	7.604	7.604	(0.945)	950500	55.6512	55.6511
	23 2-Nitrophenol	139	7.614	7.604	(0.946)	655969	53.2713	53.2713
	24 bis(2-Chloroethoxy)methane	93	7.728	7.718	(0.960)	607864	26.1433	26.1433
	25 Benzoic acid	122	7.831	7.749	(0.973)	963693	86.6344	86.6344
	26 2,4-Dichlorophenol	162	7.883	7.873	(0.979)	1031971	50.6621	50.6621
	27 1,2,4-Trichlorobenzene	180	7.987	7.987	(0.992)	651249	26.0913	26.0913
*	28 Naphthalene-d8	136	8.049	8.049	(1.000)	2542719	40.0000	
	29 Naphthalene	128	8.080	8.069	(1.004)	1599176	26.6539	26.6538
	30 4-Chloroaniline	127	8.142	8.142	(1.012)	275847	11.0754	11.0753
	31 Hexachlorobutadiene	225	8.256	8.256	(1.026)	439574	26.8539	26.8539
	32 4-Chloro-3-methylphenol	107	8.690	8.690	(1.080)	879501	54.5758	54.5757
	33 2-Methylnaphthalene	142	8.897	8.897	(1.105)	1213084	26.2515	26.2515
	34 Hexachlorocyclopentadiene	237	9.167	9.167	(0.896)	167312	11.5983	11.5982
	35 2,4,6-Trichlorophenol	196	9.270	9.270	(0.906)	964925	52.4408	52.4407
	36 2,4,5-Trichlorophenol	196	9.322	9.312	(0.911)	964019	52.9742	52.9742
$	37 2-Fluorobiphenyl	172	9.363	9.363	(0.915)	1386248	25.6351	25.6351
	38 2-Chloronaphthalene	162	9.508	9.508	(0.929)	1198280	26.0327	26.0327
	39 2-Nitroaniline	65	9.663	9.663	(0.944)	229673	24.2704	24.2704
	40 Dimethylphthalate	163	9.891	9.891	(0.967)	1414603	25.3898	25.3898
	41 2,6-Dinitrotoluene	165	10.005	10.005	(0.978)	339100	25.1857	25.1856
	42 Acenaphthylene	152	10.046	10.046	(0.982)	1799570	24.8918	24.8918
	43 3-Nitroaniline	138	10.181	10.191	(0.995)	183494	14.3586	14.3586
*	44 Acenaphthene-d10	164	10.233	10.233	(1.000)	1768641	40.0000	
	45 Acenaphthene	154	10.274	10.274	(1.004)	1122381	25.2472	25.2471
	46 2,4-Dinitrophenol	184	10.315	10.305	(1.008)	315379	39.7079	39.7078
	47 4-Nitrophenol	109	10.367	10.347	(1.013)	241051	55.9896	55.9895
	48 Dibenzofuran	168	10.460	10.460	(1.022)	1761579	25.6456	25.6456
	49 2,4-Dinitrotoluene	165	10.502	10.491	(1.026)	438499	25.3400	25.3400
	50 Diethylphthalate	149	10.761	10.761	(1.052)	1356922	26.2317	26.2316
	51 4-Chlorophenyl-phenylether	204	10.864	10.854	(1.062)	822344	26.9739	26.9738
	52 Fluorene	166	10.895	10.895	(1.065)	1447293	25.9276	25.9275
	53 4-Nitroaniline	138	10.968	10.968	(1.072)	273374	24.3947	24.3946
	54 4,6-Dinitro-2-methylphenol	198	11.019	11.009	(0.913)	565267	51.0929	51.0928
	55 N-Nitrosodiphenylamine	169	11.030	11.019	(0.913)	1017323	26.4088	26.4088
	56 Azobenzene	77	11.061	11.061	(0.916)	978725	24.8588	24.8588
$	57 2,4,6-Tribromophenol	330	11.226	11.226	(1.097)	723534	54.5780	54.5779
	58 4-Bromophenyl-phenylether	248	11.464	11.464	(0.949)	574973	25.4839	25.4839
	59 Hexachlorobenzene	284	11.682	11.682	(0.967)	649572	25.9083	25.9083
	60 Pentachlorophenol	266	11.899	11.899	(0.985)	638119	39.6608	39.6608
*	61 Phenanthrene-d10	188	12.075	12.065	(1.000)	3516239	40.0000	
	62 Phenanthrene	178	12.106	12.096	(1.003)	2372093	28.2789	28.2788

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA11.D
Report Date: 11-Oct-2004 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	63 Anthracene	178	12.158	12.158	(1.007)	2242287	25.8318	25.8317
	64 Carbazole	167	12.334	12.344	(1.021)	12678	0.18463	0.1846 (M)
	65 Di-n-butylphthalate	149	12.748	12.748	(1.056)	2509507	25.7819	25.7819
	66 Fluoranthene	202	13.586	13.586	(1.125)	3038628	28.2108	28.2107
	68 Pyrene	202	13.886	13.876	(0.886)	3215656	31.8877	31.8877
$	69 Terphenyl-d14	244	14.021	14.021	(0.894)	2206029	26.1027	26.1027
	70 Butylbenzylphthalate	149	14.663	14.663	(0.935)	1105644	27.1332	27.1331
	71 3,3'-Dichlorobenzidine	252	15.573	15.573	(0.993)	573060	15.1366	15.1366
	72 Benzo(a)anthracene	228	15.625	15.625	(0.997)	2717962	26.3591	26.3591
*	73 Chrysene-d12	240	15.677	15.667	(1.000)	3229145	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.563	15.563	(0.993)	1632558	27.5235	27.5235
	75 Chrysene	228	15.729	15.718	(1.003)	2437399	26.1273	26.1273
	76 Di-n-octylphthalate	149	16.815	16.805	(0.882)	2769247	43.7362	43.7361
	77 Benzo(b)fluoranthene	252	18.006	18.016	(0.944)	2462795	36.5841	36.5841
	78 Benzo(k)fluoranthene	252	18.068	18.078	(0.947)	2154989	37.7446	37.7445
	79 Benzo(a)pyrene	252	18.896	18.906	(0.991)	1831773	31.7115	31.7114
*	80 Perylene-d12	264	19.072	19.072	(1.000)	1790605	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	22.301	22.353	(1.169)	1148322	18.6196	18.6196
	82 Dibenz(a,h)anthracene	278	22.342	22.394	(1.171)	968007	19.2608	19.2607
	83 Benzo(g,h,i)perylene	276	23.057	23.108	(1.209)	763494	15.9764	15.9764

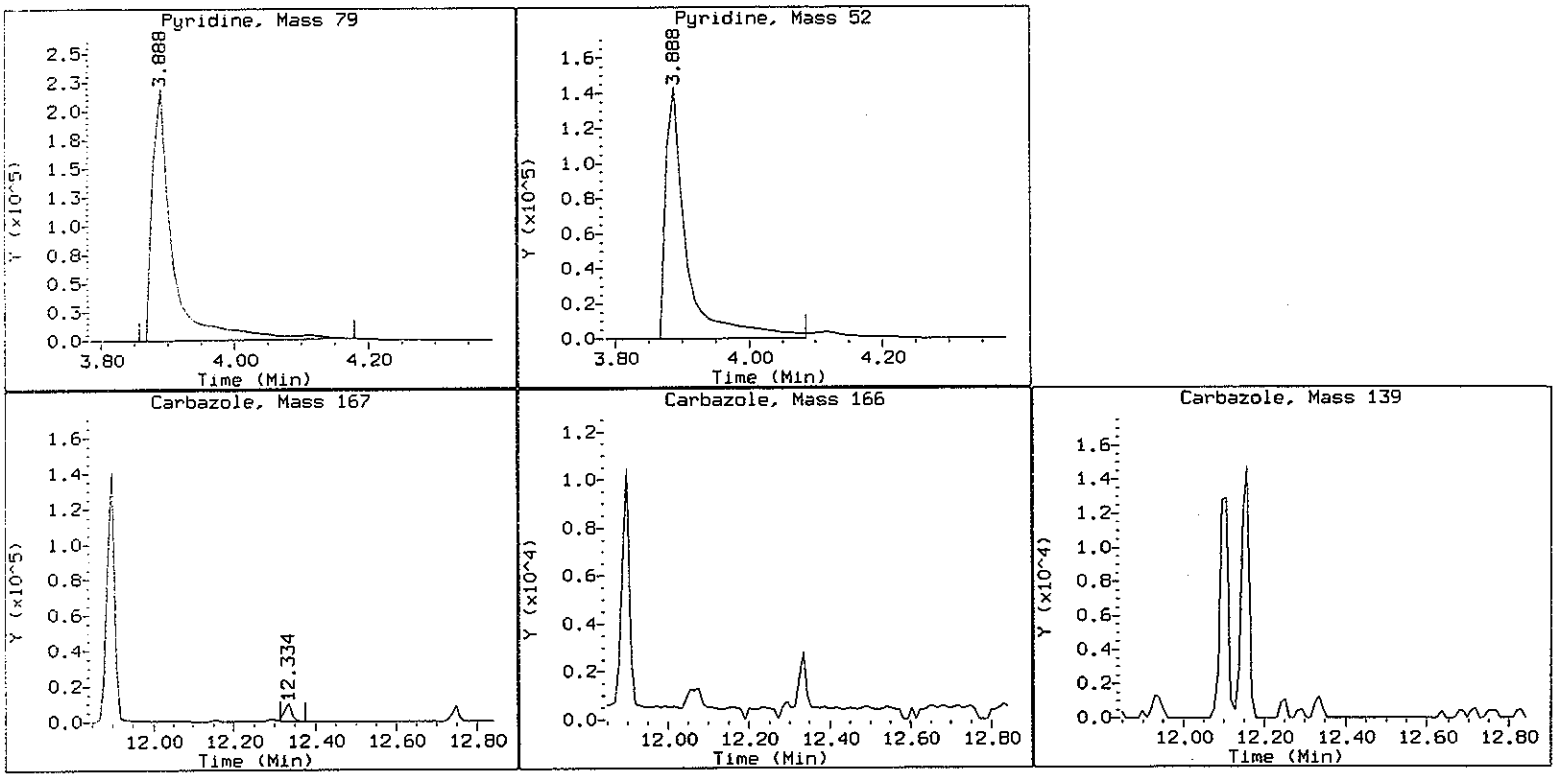
QC Flag Legend

M - Compound response manually integrated.

Signal Manual Integrations Report

Report Date: 10/11/2004 11:42

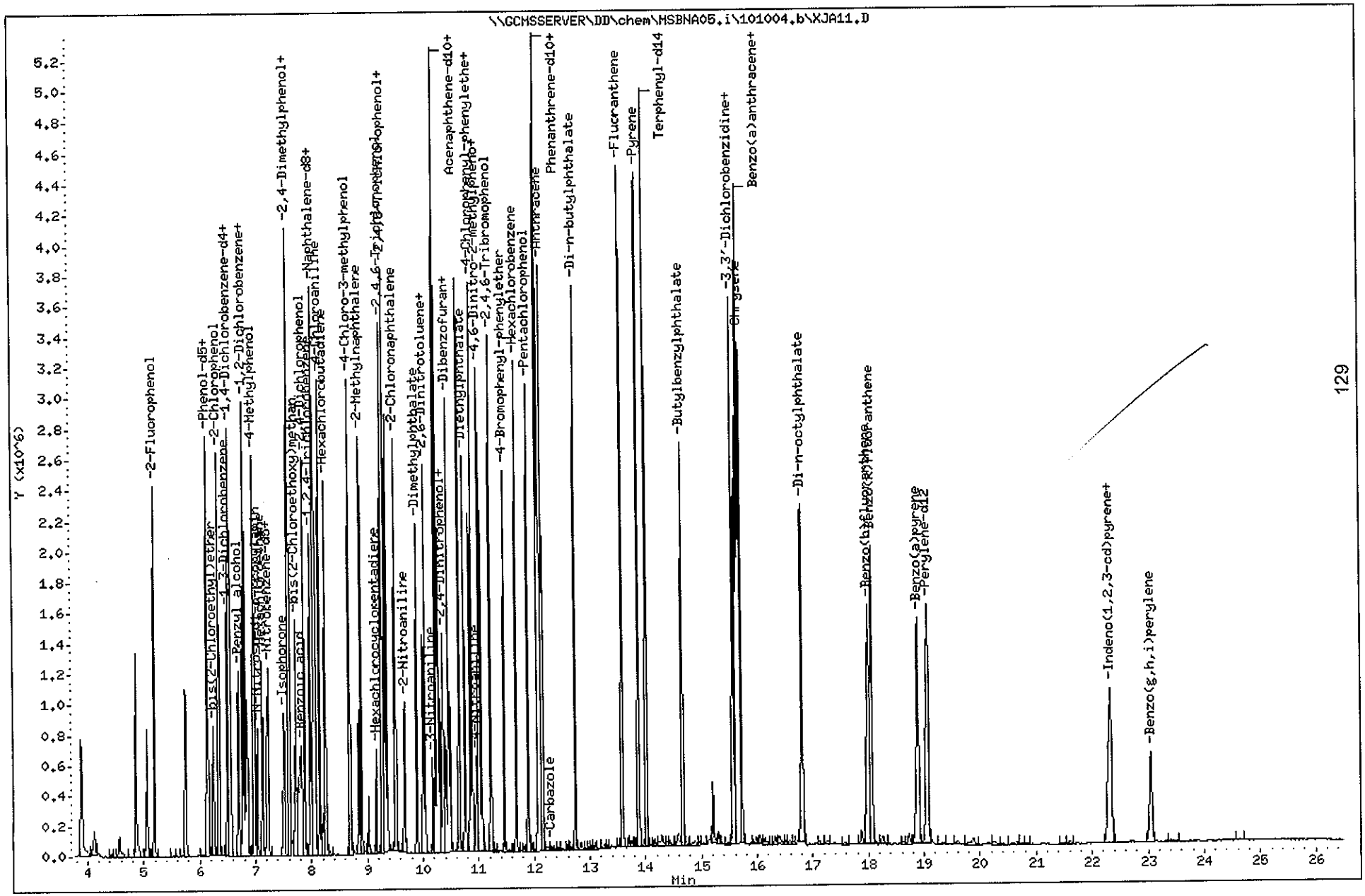
Datafile: //GCMSSERVER/DD/chem/MSBNA05.i/101004.b/XJA11.D
Injection Date: 10-OCT-2004 19:02
Lab ID: Client ID:CURTIS&TOMPKINS



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA11.D
Date : 10-OCT-2004 19:02
Client ID: CURTIS&TOMPKINS
Sample Info: MS,QC267416
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i

Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA12.D
Report Date: 11-Oct-2004 11:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA12.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-OCT-2004 19:38 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : MSD,QC267417
Misc Info : 95302,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\6PTBNA5.m
Meth Date : 10-Oct-2004 14:34 tapsvc Quant Type: ISTD
Cal Date : 06-OCT-2004 16:01 Cal File: XJ610.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 Pyridine	79	3.878	3.888	(0.593)	545268	30.8858	30.8858 (M)
	2 N-Nitrosodimethylamine	42	3.888	3.898	(0.595)	202865	30.0546	30.0546
$	3 2-Fluorophenol	112	5.203	5.171	(0.796)	1126826	60.2217	60.2216
$	4 Phenol-d5	99	6.144	6.124	(0.940)	1277948	56.9223	56.9222
	5 Phenol	94	6.155	6.134	(0.941)	1285010	54.6343	54.6342
	7 bis(2-Chloroethyl)ether	63	6.248	6.248	(0.956)	366419	29.2638	29.2638
	8 2-Chlorophenol	128	6.351	6.341	(0.972)	1280385	62.1355	62.1355
	9 1,3-Dichlorobenzene	146	6.496	6.496	(0.994)	758787	29.8158	29.8157
*	10 1,4-Dichlorobenzene-d4	152	6.538	6.538	(1.000)	680719	40.0000	
	11 1,4-Dichlorobenzene	146	6.558	6.558	(1.003)	742932	29.5366	29.5365
	12 Benzyl alcohol	108	6.703	6.693	(1.025)	374752	31.9471	31.9471
	13 1,2-Dichlorobenzene	146	6.776	6.776	(1.036)	718490	30.2605	30.2605
	14 2-Methylphenol	107	6.817	6.807	(1.043)	847430	60.8185	60.8184
	15 bis(2-Chloroisopropyl) ether	45	6.848	6.858	(1.047)	735437	29.5230	29.5229

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA12.D
Report Date: 11-Oct-2004 11:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	16 4-Methylphenol	107	6.983	6.972	(1.068)	1243814	57.3572	57.3572
	17 N-Nitroso-di-n-propylamine	70	7.045	7.034	(1.078)	285791	30.0229	30.0228
	18 Hexachloroethane	117	7.128	7.128	(1.090)	203094	23.7015	23.7014
$	19 Nitrobenzene-d5	82	7.210	7.210	(0.896)	534715	29.3166	29.3166
	20 Nitrobenzene	77	7.231	7.231	(0.898)	497625	28.3088	28.3088
	21 Isophorone	82	7.511	7.490	(0.933)	930942	28.4835	28.4834
	22 2,4-Dimethylphenol	122	7.614	7.604	(0.946)	1009113	60.1862	60.1861
	23 2-Nitrophenol	139	7.614	7.604	(0.946)	712606	58.9515	58.9514
	24 bis(2-Chloroethoxy)methane	93	7.728	7.718	(0.960)	658894	28.8672	28.8671
	25 Benzoic acid	122	7.842	7.749	(0.974)	1094803	98.9225	98.9225
	26 2,4-Dichlorophenol	162	7.883	7.873	(0.979)	1084180	54.2191	54.2190
	27 1,2,4-Trichlorobenzene	180	7.987	7.987	(0.992)	709327	28.9488	28.9487
*	28 Naphthalene-d8	136	8.049	8.049	(1.000)	2496109	40.0000	
	29 Naphthalene	128	8.080	8.069	(1.004)	1765326	29.9725	29.9725
	30 4-Chloroaniline	127	8.142	8.142	(1.012)	260661	10.6611	10.6610
	31 Hexachlorobutadiene	225	8.256	8.256	(1.026)	481740	29.9794	29.9794
	32 4-Chloro-3-methylphenol	107	8.691	8.690	(1.080)	963833	60.9257	60.9256
	33 2-Methylnaphthalene	142	8.898	8.897	(1.105)	1330634	29.3330	29.3330
	34 Hexachlorocyclopentadiene	237	9.167	9.167	(0.896)	166526	11.6966	11.6965
	35 2,4,6-Trichlorophenol	196	9.280	9.270	(0.907)	1034310	56.9555	56.9554
	36 2,4,5-Trichlorophenol	196	9.322	9.312	(0.911)	1041111	57.9676	57.9676
$	37 2-Fluorobiphenyl	172	9.363	9.363	(0.915)	1506419	28.2260	28.2260
	38 2-Chloronaphthalene	162	9.508	9.508	(0.929)	1310443	28.8462	28.8462
	39 2-Nitroaniline	65	9.674	9.663	(0.945)	248537	26.6114	26.6114
	40 Dimethylphthalate	163	9.891	9.891	(0.967)	1537100	27.9535	27.9535
	41 2,6-Dinitrotoluene	165	10.005	10.005	(0.978)	361817	27.2285	27.2285
	42 Acenaphthylene	152	10.046	10.046	(0.982)	1931989	27.0771	27.0771
	43 3-Nitroaniline	138	10.181	10.191	(0.995)	178297	14.1366	14.1365
*	44 Acenaphthene-d10	164	10.233	10.233	(1.000)	1745542	40.0000	
	45 Acenaphthene	154	10.274	10.274	(1.004)	1216683	27.7306	27.7305
	46 2,4-Dinitrophenol	184	10.316	10.305	(1.008)	362121	44.9983	44.9982
	47 4-Nitrophenol	109	10.367	10.347	(1.013)	257284	60.5509	60.5508
	48 Dibenzofuran	168	10.460	10.460	(1.022)	1911927	28.2028	28.2027
	49 2,4-Dinitrotoluene	165	10.502	10.491	(1.026)	472316	27.6554	27.6554
	50 Diethylphthalate	149	10.761	10.761	(1.052)	1425049	27.9133	27.9132
	51 4-Chlorophenyl-phenylether	204	10.864	10.854	(1.062)	882200	29.3201	29.3201
	52 Fluorene	166	10.895	10.895	(1.065)	1548388	28.1057	28.1057
	53 4-Nitroaniline	138	10.978	10.968	(1.073)	283704	25.6515	25.6514
	54 4,6-Dinitro-2-methylphenol	198	11.019	11.009	(0.913)	615325	56.4294	56.4294
	55 N-Nitrosodiphenylamine	169	11.030	11.019	(0.913)	1089984	28.7081	28.7081
	56 Azobenzene	77	11.061	11.061	(0.916)	1044483	26.9163	26.9163
$	57 2,4,6-Tribromophenol	330	11.226	11.226	(1.097)	777318	59.4110	59.4109
	58 4-Bromophenyl-phenylether	248	11.464	11.464	(0.949)	605664	27.2361	27.2360
	59 Hexachlorobenzene	284	11.682	11.682	(0.967)	691146	27.9690	27.9689
	60 Pentachlorophenol	266	11.899	11.899	(0.985)	605395	38.1763	38.1762
*	61 Phenanthrene-d10	188	12.075	12.065	(1.000)	3465643	40.0000	
	62 Phenanthrene	178	12.106	12.096	(1.003)	2564419	31.0180	31.0179

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA12.D
Report Date: 11-Oct-2004 11:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
63 Anthracene	178	12.158	12.158	(1.007)	2407181	28.1363	28.1362
64 Carbazole	167	12.334	12.344	(1.021)	13917	0.20563	0.2056 (M)
65 Di-n-butylphthalate	149	12.748	12.748	(1.056)	2637762	27.4952	27.4952
66 Fluoranthene	202	13.597	13.586	(1.126)	3340821	31.4692	31.4691
68 Pyrene	202	13.886	13.876	(0.886)	3491782	35.5481	35.5481
$ 69 Terphenyl-d14	244	14.021	14.021	(0.894)	2360973	28.6801	28.6801
70 Butylbenzylphthalate	149	14.663	14.663	(0.935)	1185819	29.8758	29.8757
71 3,3'-Dichlorobenzidine	252	15.573	15.573	(0.993)	533198	14.4588	14.4588
72 Benzo(a)anthracene	228	15.636	15.625	(0.997)	2959522	29.4662	29.4662
* 73 Chrysene-d12	240	15.677	15.667	(1.000)	3145371	40.0000	
74 bis(2-Ethylhexyl)phthalate	149	15.563	15.563	(0.993)	1731030	29.9609	29.9609
75 Chrysene	228	15.729	15.718	(1.003)	2618947	28.8211	28.8210
76 Di-n-octylphthalate	149	16.815	16.805	(0.882)	2984759	50.9927	50.9927
77 Benzo(b)fluoranthene	252	18.006	18.016	(0.944)	2538818	40.7959	40.7958
78 Benzo(k)fluoranthene	252	18.078	18.078	(0.948)	2355287	44.6245	44.6244
79 Benzo(a)pyrene	252	18.896	18.906	(0.991)	1927638	36.0986	36.0985
* 80 Perylene-d12	264	19.072	19.072	(1.000)	1655312	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.301	22.353	(1.169)	1122088	19.6813	19.6813
82 Dibenz(a,h)anthracene	278	22.343	22.394	(1.171)	945247	20.3451	20.3451
83 Benzo(g,h,i)perylene	276	23.057	23.108	(1.209)	728118	16.4814	16.4814

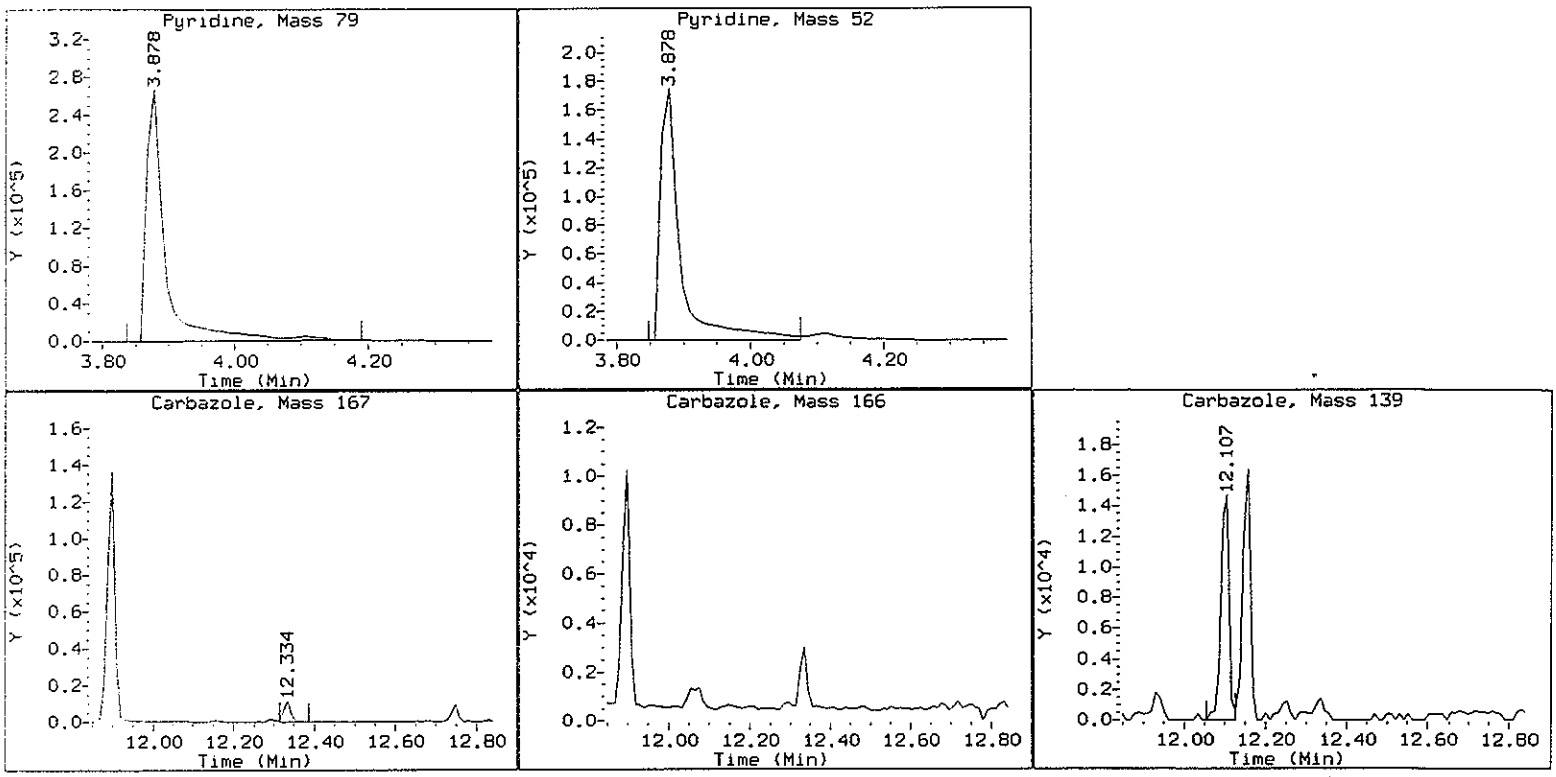
QC Flag Legend

M - Compound response manually integrated.

Signal Manual Integrations Report

Report Date: 10/11/2004 11:43

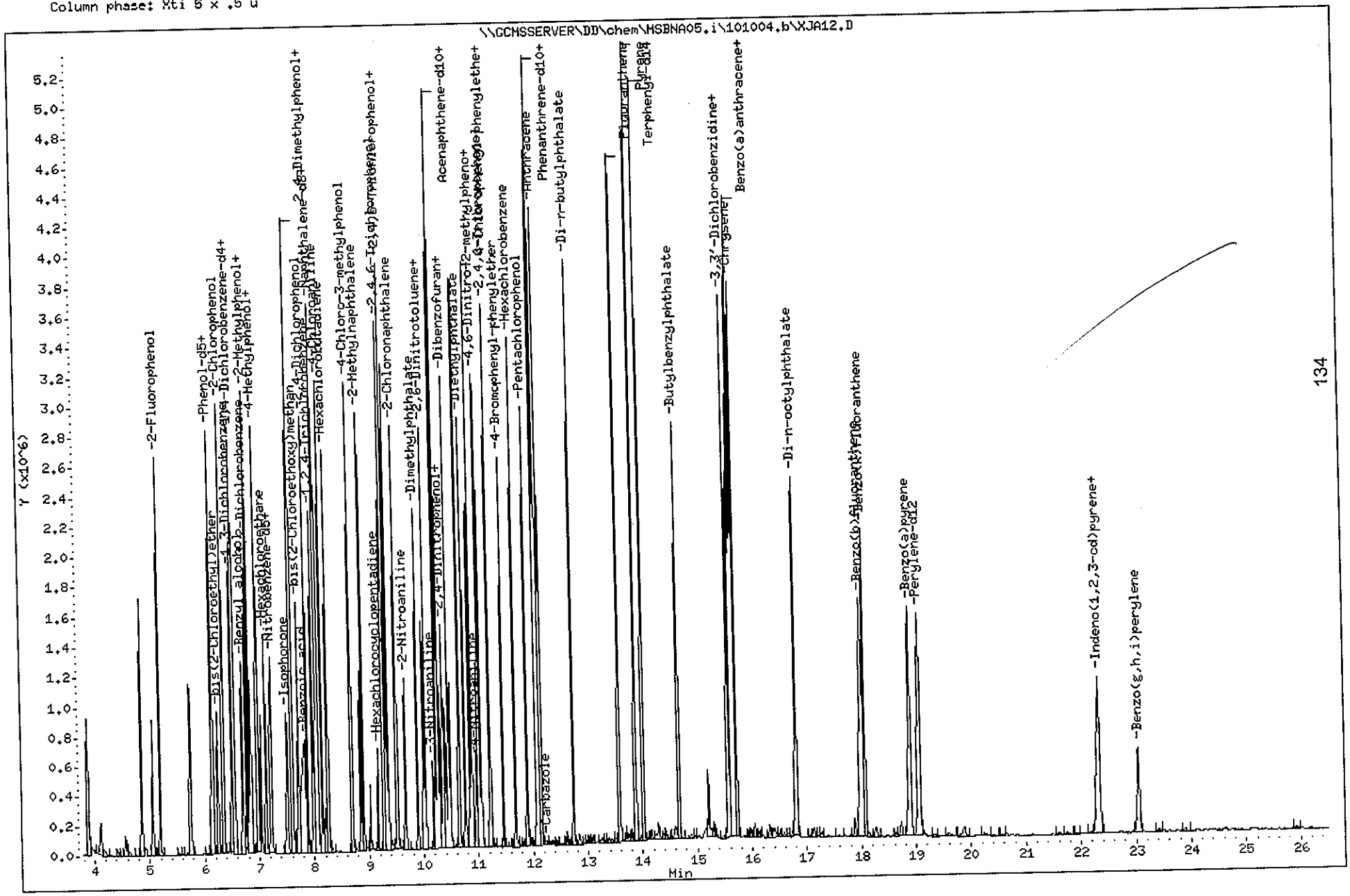
Datafile: //GCMSSERVER/DD/chem/MSBNA05.i/101004.b/XJA12.D
Injection Date: 10-OCT-2004 19:38
Lab ID: Client ID:CURTIS&TOMPKINS



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA12.D
Date : 10-OCT-2004 19:38
Client ID: CURTIS&TOMPKINS
Sample Info: MSD,QC267417
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i

Operator: DL
Column diameter: 0.25



Curtis & Tompkins, Ltd.

Initial Calibration Data

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ401.D

Date : 04-OCT-2004 09:49

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

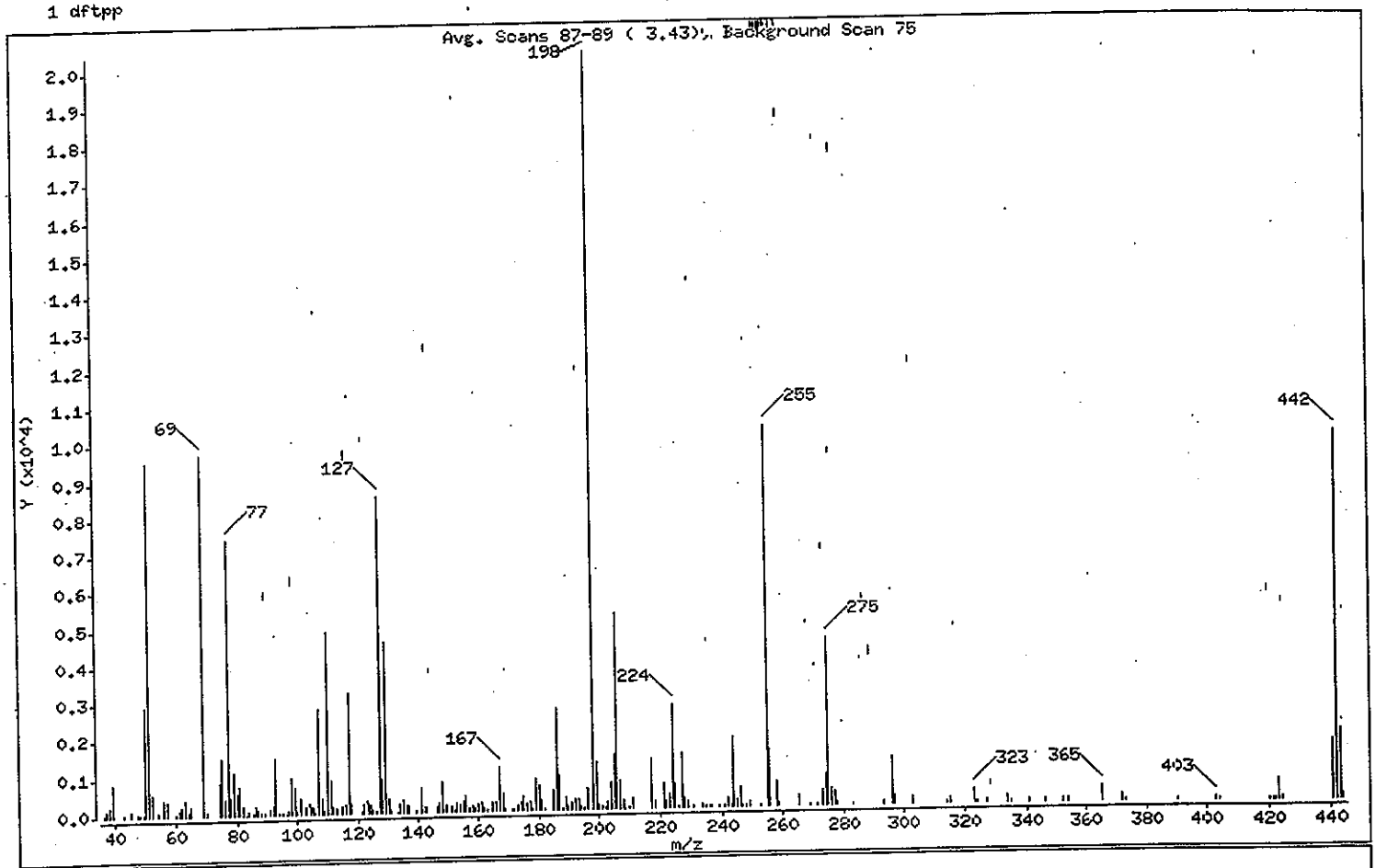
Column phase: Xti 5

Instrument: MSBNA04.i

Operator: BVD

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.84
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.62
70	Less than 2.00% of mass 69	0.55 (1.15)
127	40.00 - 60.00% of mass 198	41.99
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.27
275	10.00 - 30.00% of mass 198	22.14
365	Greater than 1.00% of mass 198	2.01
441	Present, but less than mass 443	7.78
442	40.00 - 99.99% of mass 198	48.83
443	17.00 - 23.00% of mass 442	9.11 (18.66)

8270 BCAL

10/05/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ401.D

Date : 04-OCT-2004 09:49

Client ID: dftpp tune std

Instrument: MSBNA04.i

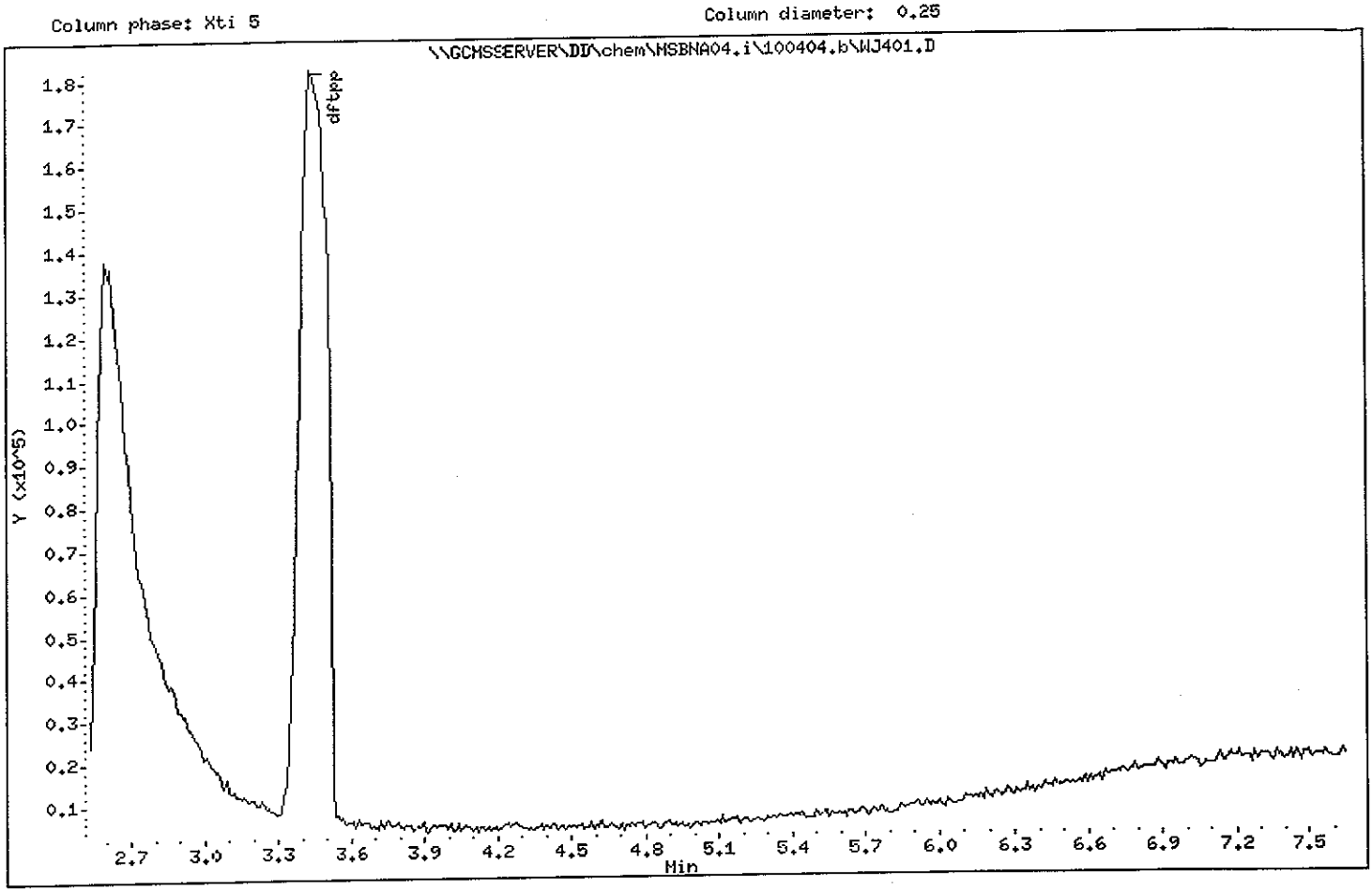
Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ401.D

Date : 04-OCT-2004 09:49

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: WJ401.D
Spectrum: Avg. Scans 87-89 (3.43), Background Scan 75
Location of Maximum: 198.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	33	108.00	436	174.00	220	244.00	1895
37.00	118	109.00	97	175.00	397	245.00	199
38.00	224	110.00	4904	176.00	175	246.00	511
39.00	829	111.00	889	177.00	238	247.00	34
43.00	38	112.00	165	178.00	64	248.00	34
45.00	118	113.00	143	179.00	830	249.00	119
47.00	46	115.00	210	180.00	669	253.00	48
48.00	34	116.00	240	181.00	266	255.00	10302
49.00	61	117.00	3244	182.00	38	256.00	1568
50.00	2919	118.00	296	185.00	500	258.00	655
51.00	9558	121.00	37	186.00	2726	259.00	76
52.00	579	122.00	242	187.00	943	265.00	287
54.00	72	123.00	320	188.00	59	269.00	41
56.00	402	124.00	236	189.00	329	271.00	35
57.00	361	125.00	102	190.00	76	273.00	417
60.00	45	126.00	40	191.00	177	274.00	859
61.00	146	127.00	8568	192.00	264	275.00	4518
62.00	245	128.00	886	193.00	296	276.00	461
63.00	419	129.00	4610	194.00	85	277.00	394
64.00	84	130.00	372	195.00	35	278.00	88
65.00	227	131.00	87	196.00	583	283.00	42
69.00	9716	133.00	5	198.00	20400	293.00	101
70.00	112	134.00	225	199.00	1280	296.00	1290
74.00	836	135.00	318	200.00	130	297.00	226
75.00	1488	136.00	176	201.00	82	303.00	193
76.00	429	137.00	174	202.00	47	314.00	37
77.00	7426	139.00	70	203.00	209	315.00	126
78.00	461	141.00	677	204.00	713	323.00	389
79.00	1112	142.00	147	205.00	1462	324.00	66
80.00	543	143.00	139	206.00	5288	327.00	85
81.00	734	146.00	129	207.00	750	334.00	193
82.00	220	147.00	254	208.00	242	335.00	36
83.00	7	148.00	789	209.00	19	341.00	72
84.00	111	149.00	183	210.00	42	346.00	101
85.00	47	151.00	135	211.00	287	352.00	116

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ401.D

Date : 04-OCT-2004 09:49

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: WJ401.D
Spectrum: Avg. Scans 87-89 (3.43), Background Scan 75
Location of Maximum: 198.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	255	152.00	42	217.00	1335	354.00	109
87.00	148	153.00	228	218.00	194	365.00	410
88.00	36	154.00	202	221.00	666	372.00	182
89.00	39	155.00	277	222.00	186	373.00	38
91.00	145	156.00	443	223.00	381	390.00	35
92.00	239	157.00	79	224.00	2788	403.00	95
93.00	1488	158.00	146	225.00	665	404.00	42
94.00	52	159.00	81	226.00	49	420.00	37
95.00	65	160.00	166	227.00	1439	421.00	37
96.00	6	161.00	222	228.00	297	422.00	65
97.00	86	162.00	88	229.00	200	423.00	551
98.00	997	163.00	52	231.00	56	424.00	94
99.00	687	165.00	221	234.00	90	441.00	1587
100.00	117	166.00	231	235.00	34	442.00	9963
101.00	442	167.00	1182	236.00	37	443.00	1859
103.00	167	168.00	462	237.00	53	444.00	163
104.00	297	169.00	39	239.00	34		
105.00	206	171.00	43	241.00	36		
106.00	56	172.00	44	242.00	245		
107.00	2820	173.00	128	243.00	70		

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD01.D

Date : 13-OCT-2004 10:31

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

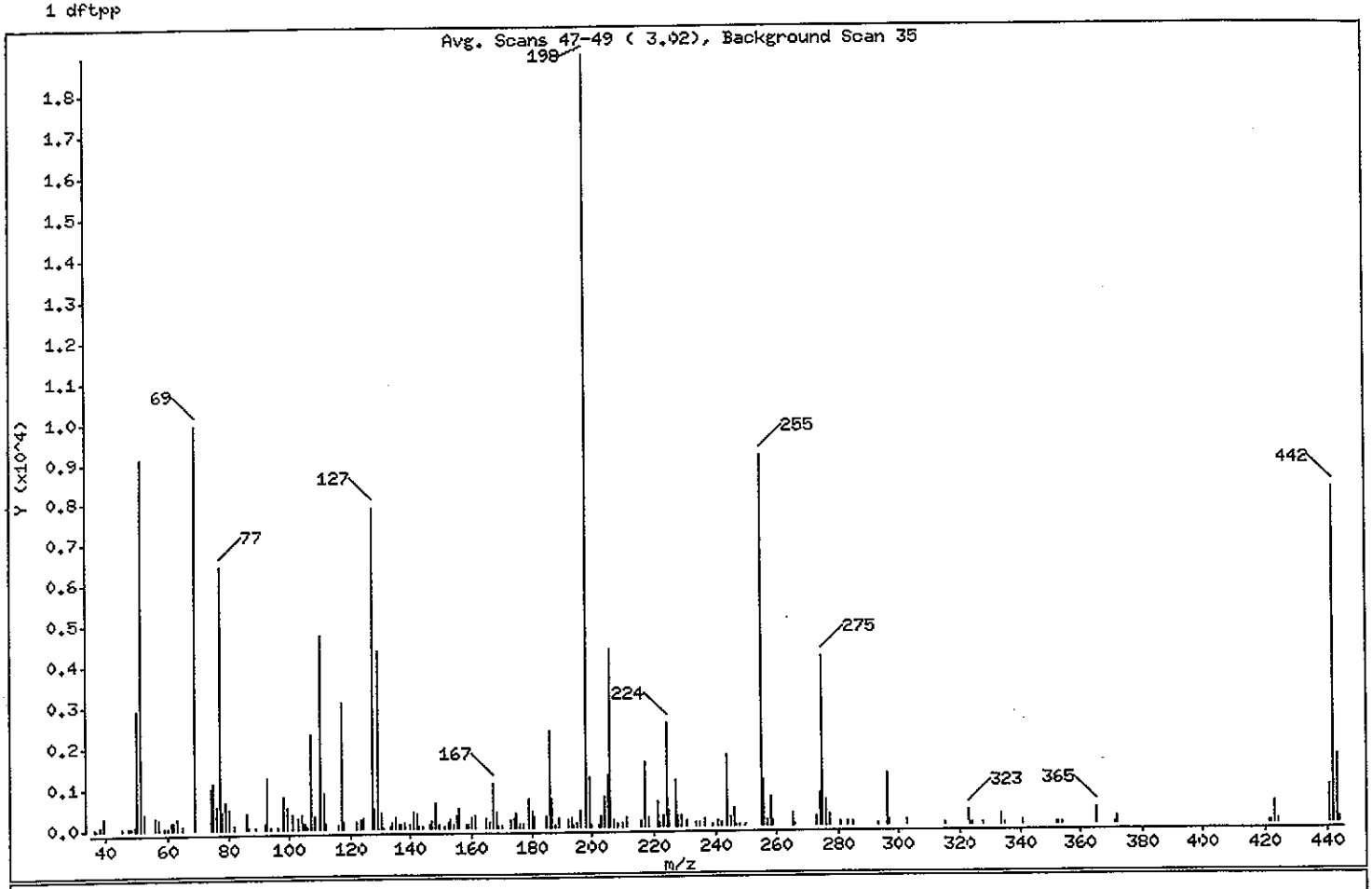
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.18
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.42
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.65
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 30.00% of mass 198	21.92
365	Greater than 1.00% of mass 198	2.07
441	Present, but less than mass 443	4.92
442	40.00 - 99.99% of mass 198	43.46
443	17.00 - 23.00% of mass 442	8.73 (20.08)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD01.D

Date : 13-OCT-2004 10:31

Client ID: dftpp tune std

Instrument: MSBNA04.i

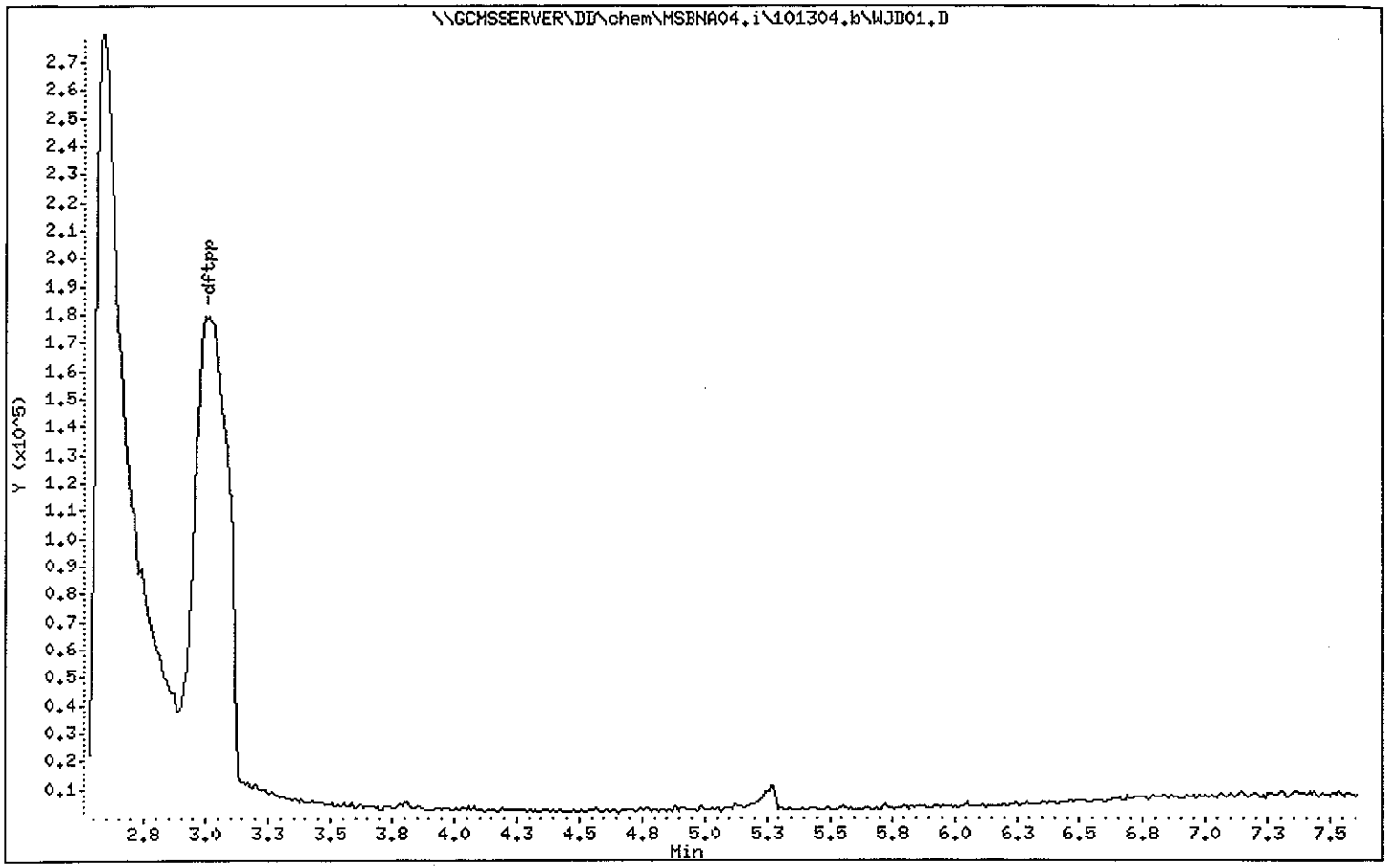
Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD01.D

Date : 13-OCT-2004 10:31

Client ID: dftpp tune std | Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 | Column diameter: 0.25

Data File: WJD01.D
Spectrum: Avg. Scans 47-49 (3.02), Background Scan 35
Location of Maximum: 198.00
Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	39	112.00	118	176.00	97	245.00	203
37.00	8	116.00	70	177.00	101	246.00	436
38.00	71	117.00	3116	179.00	702	247.00	58
39.00	321	118.00	160	180.00	400	248.00	34
45.00	26	122.00	172	181.00	271	250.00	44
47.00	61	123.00	226	185.00	252	255.00	9102
48.00	34	124.00	267	186.00	2346	256.00	1152
49.00	85	127.00	7881	187.00	705	257.00	133
50.00	2920	128.00	495	188.00	42	258.00	676
51.00	9115	129.00	4351	189.00	215	259.00	117
52.00	412	130.00	372	192.00	153	265.00	299
56.00	294	131.00	15	193.00	222	266.00	64
57.00	251	133.00	39	194.00	54	273.00	220
59.00	63	134.00	117	195.00	71	274.00	803
60.00	35	135.00	251	196.00	388	275.00	4148
61.00	179	136.00	102	198.00	18920	276.00	609
62.00	188	137.00	95	199.00	1230	277.00	268
63.00	279	138.00	118	200.00	64	281.00	75
65.00	73	140.00	104	202.00	34	283.00	94
69.00	9918	141.00	378	203.00	244	285.00	95
74.00	1023	142.00	335	204.00	750	293.00	33
75.00	1140	143.00	50	205.00	1257	296.00	1272
76.00	565	144.00	37	206.00	4369	297.00	136
77.00	6443	146.00	100	207.00	183	303.00	137
78.00	424	147.00	195	208.00	93	315.00	51
79.00	665	148.00	606	210.00	88	323.00	339
80.00	472	149.00	104	211.00	216	324.00	36
82.00	71	151.00	45	216.00	127	328.00	35
86.00	404	152.00	109	217.00	1562	334.00	260
87.00	42	153.00	220	218.00	200	335.00	42
89.00	49	154.00	73	221.00	609	341.00	84
92.00	135	155.00	297	222.00	70	352.00	58
93.00	1264	156.00	483	223.00	262	353.00	37
94.00	51	158.00	75	224.00	2536	354.00	38
96.00	45	159.00	92	225.00	403	365.00	391

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD01.D

Date : 13-OCT-2004 10:31

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: WJD01.D
Spectrum: Avg. Scans 47-49 (3.02), Background Scan 35
Location of Maximum: 198.00
Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	805	160.00	265	227.00	1134	371.00	43
99.00	509	161.00	284	228.00	242	372.00	179
101.00	359	165.00	214	229.00	273	421.00	49
103.00	270	166.00	118	231.00	137	422.00	41
104.00	336	167.00	1101	234.00	88	423.00	542
105.00	116	168.00	388	235.00	71	424.00	107
106.00	42	169.00	46	237.00	190	441.00	931
107.00	2310	170.00	49	239.00	40	442.00	8222
108.00	321	173.00	171	241.00	141	443.00	1651
110.00	4744	174.00	234	242.00	92	444.00	122
111.00	893	175.00	356	244.00	1731		

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ601.D

Date : 06-OCT-2004 10:05

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

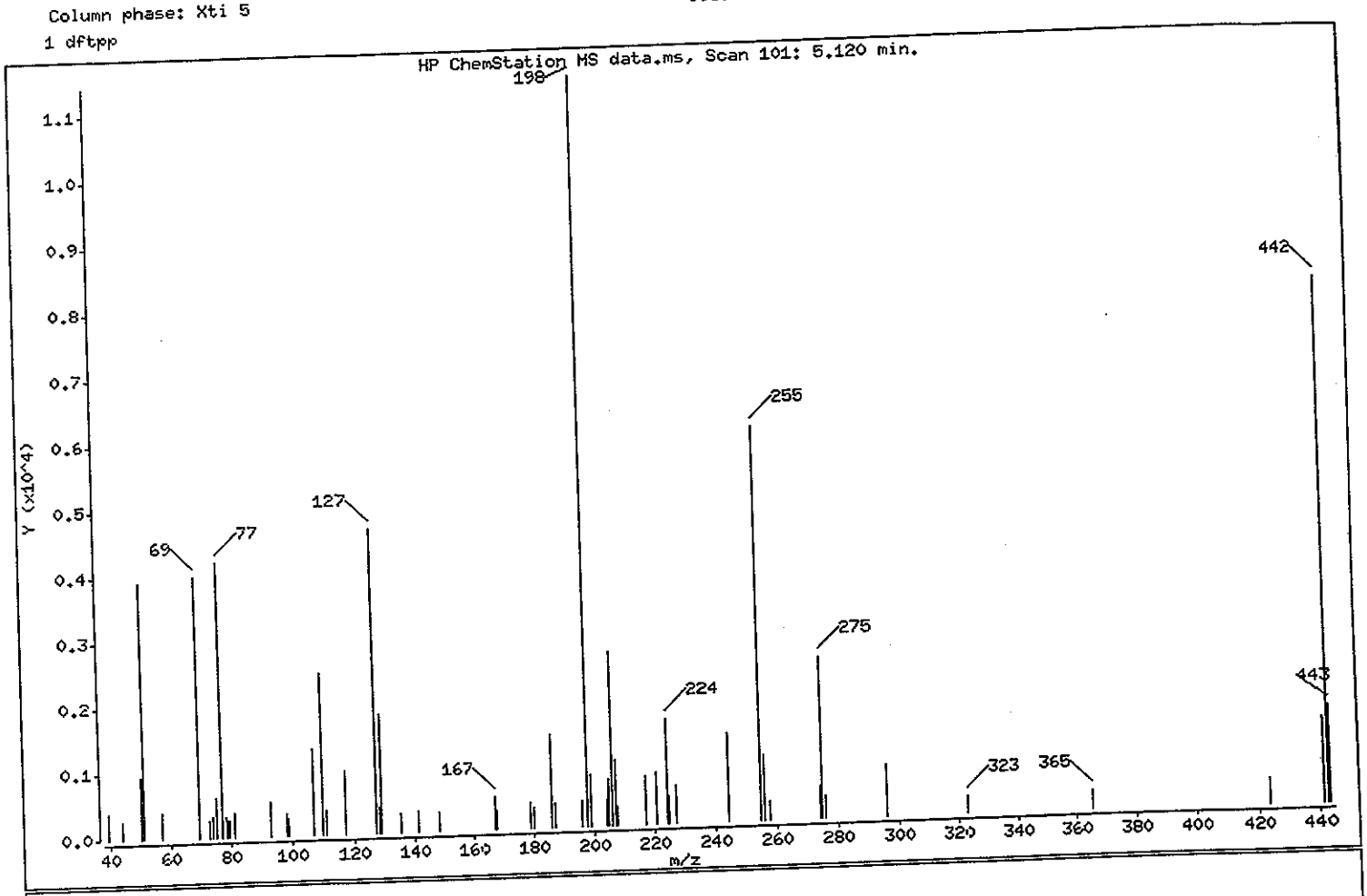
Instrument: MSBNA05.i

Operator: DL

Column diameter: 0.25

Column phase: Xti 5

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.41
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.95
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	40.80
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	21.70
365	Greater than 1.00% of mass 198	2.44
441	Present, but less than mass 443	11.44
442	40.00 - 99.99% of mass 198	70.30
443	17.00 - 23.00% of mass 442	13.10 (18.63)

10/07/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ601.D

Date : 06-OCT-2004 10:05

Client ID: dftpp tune std

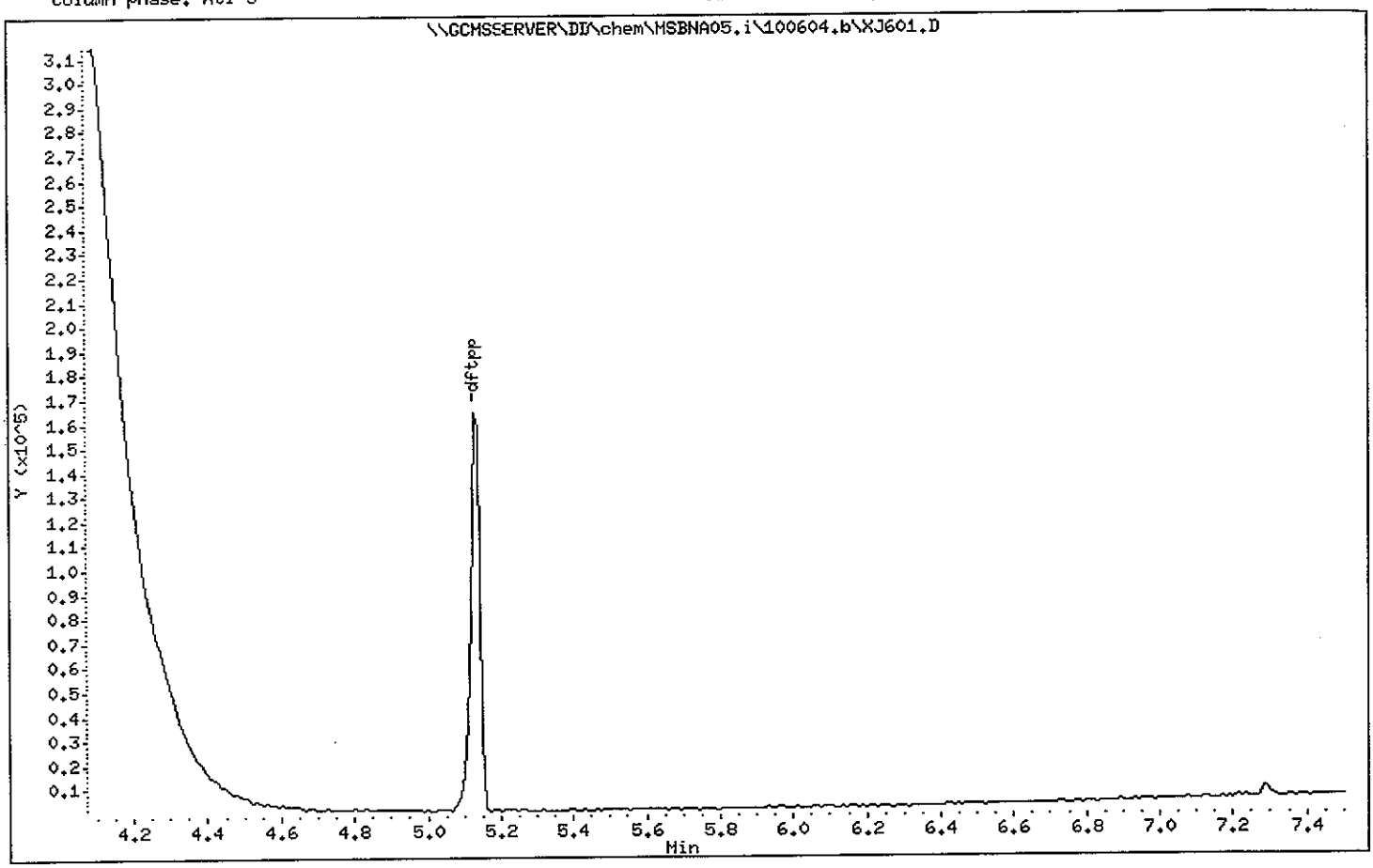
Instrument: MSBNA05.i

Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ601.D

Date : 06-OCT-2004 10:05

Client ID: dftpp tune std

Instrument: MSBNA05.i

Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

Data File: XJ601.D
Spectrum: HP ChemStation MS data.ms, Scan 101: 5.120 min.
Location of Maximum: 197.90
Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	400	98.90	275	186.00	1431	244.00	1338
44.00	260	106.90	1313	187.00	369	255.00	6032
50.00	935	109.90	2480	196.00	392	256.00	1003
51.00	3928	111.00	370	197.90	11416	258.00	301
57.00	394	116.90	963	198.90	791	274.00	504
69.00	3990	127.00	4658	204.00	407	275.00	2477
73.00	252	127.90	403	205.00	700	276.00	341
74.00	313	128.90	1804	206.00	2649	295.90	779
75.00	597	135.00	278	207.00	992	323.00	260
77.00	4200	140.90	316	208.00	278	364.90	279
78.10	319	147.90	301	216.90	728	423.10	399
79.00	267	167.00	488	220.90	785	441.00	1306
81.00	368	167.90	281	224.00	1599	442.00	8025
92.90	517	178.90	393	225.00	419	443.00	1495
98.00	335	180.00	304	226.90	575		

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA01.D

Date : 10-OCT-2004 13:08

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

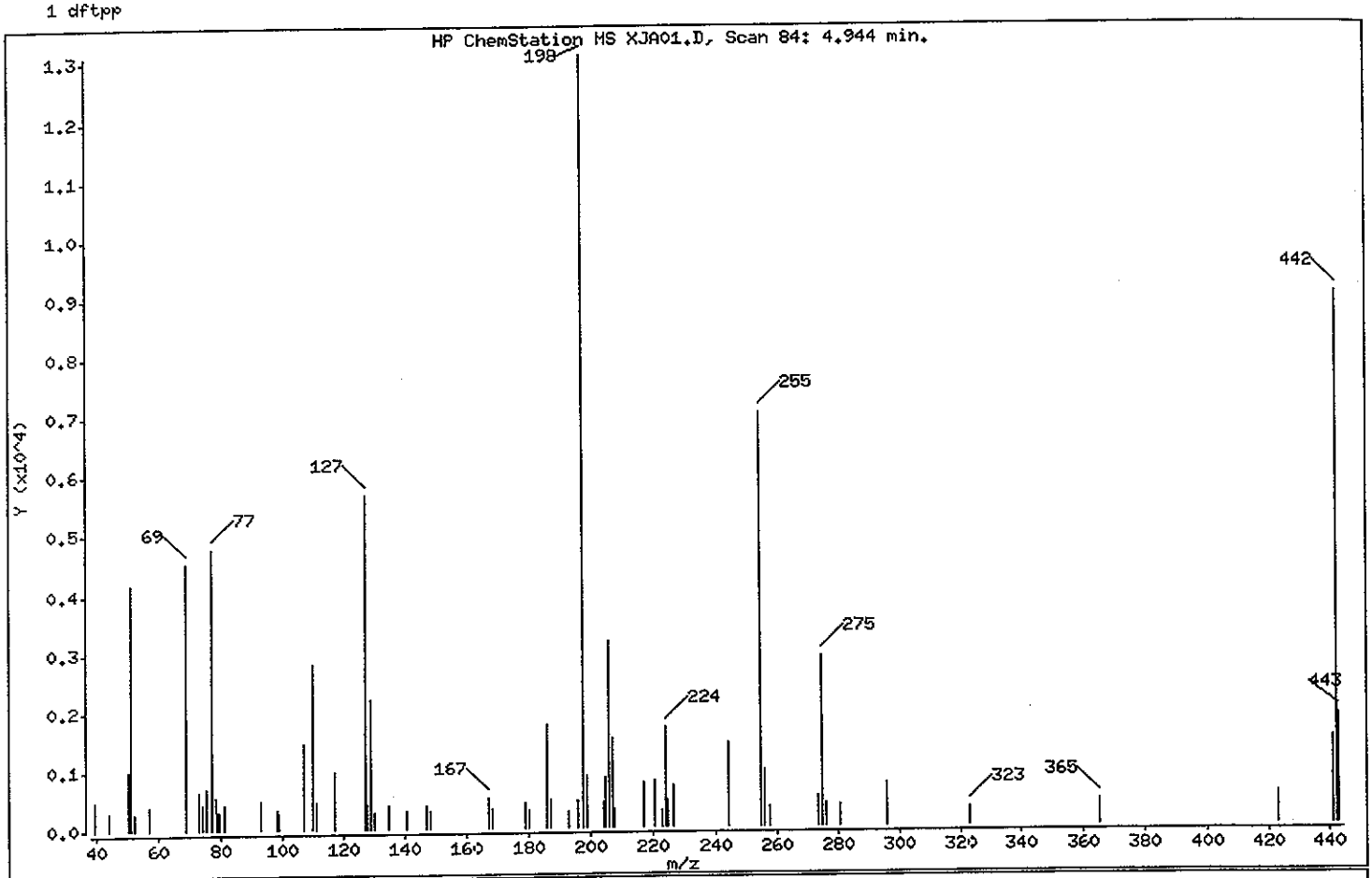
Instrument: MSBNA05.i

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.71
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.54
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	43.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
275	10.00 - 30.00% of mass 198	22.17
365	Greater than 1.00% of mass 198	3.22
441	Present, but less than mass 443	11.40
442	40.00 - 99.99% of mass 198	68.98
443	17.00 - 23.00% of mass 442	14.34 (20.79)

10/11/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA01.D

Date : 10-OCT-2004 13:08

Client ID: dftpp tune std

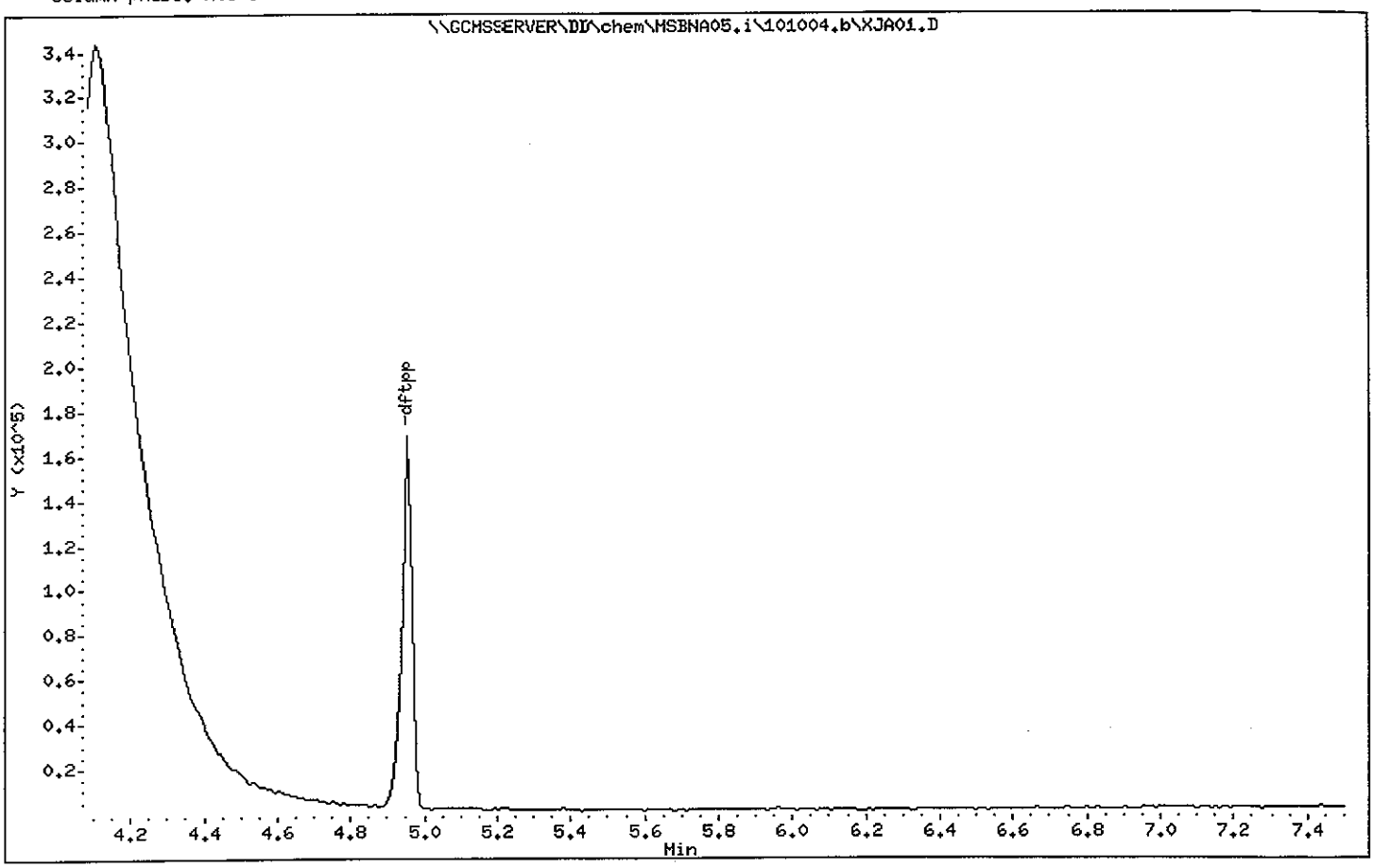
Instrument: MSBNA05.i

Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA01.D

Date : 10-OCT-2004 13:08

Client ID: dftpp tune std

Instrument: MSBNA05.i

Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

Data File: XJA01.D
Spectrum: HP ChemStation MS XJA01.D, Scan 84: 4.944 min.
Location of Maximum: 197.90
Number of points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.10	493	107.00	1460	186.90	471	255.00	7035
44.00	291	110.00	2793	193.00	270	256.00	980
50.00	994	111.00	466	195.90	460	257.90	324
51.00	4155	116.90	958	197.90	13103	273.90	511
52.00	272	127.00	5674	198.90	883	275.00	2905
57.00	389	127.90	417	204.00	421	276.00	390
68.90	4526	129.00	2202	205.00	832	281.00	360
73.00	645	130.00	257	206.00	3160	295.90	720
73.90	420	135.00	382	207.00	1515	323.00	290
75.00	708	140.90	299	208.00	301	364.90	422
77.00	4766	147.00	406	216.90	765	423.00	551
78.00	555	148.00	294	221.00	799	441.00	1494
79.10	314	167.00	509	223.00	268	442.00	9039
81.00	415	168.00	332	224.00	1692	443.00	1879
92.90	475	178.90	433	225.00	439		
98.00	344	179.90	304	226.90	692		
98.90	261	186.00	1761	244.00	1431		

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC01.D

Date : 12-OCT-2004 11:02

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

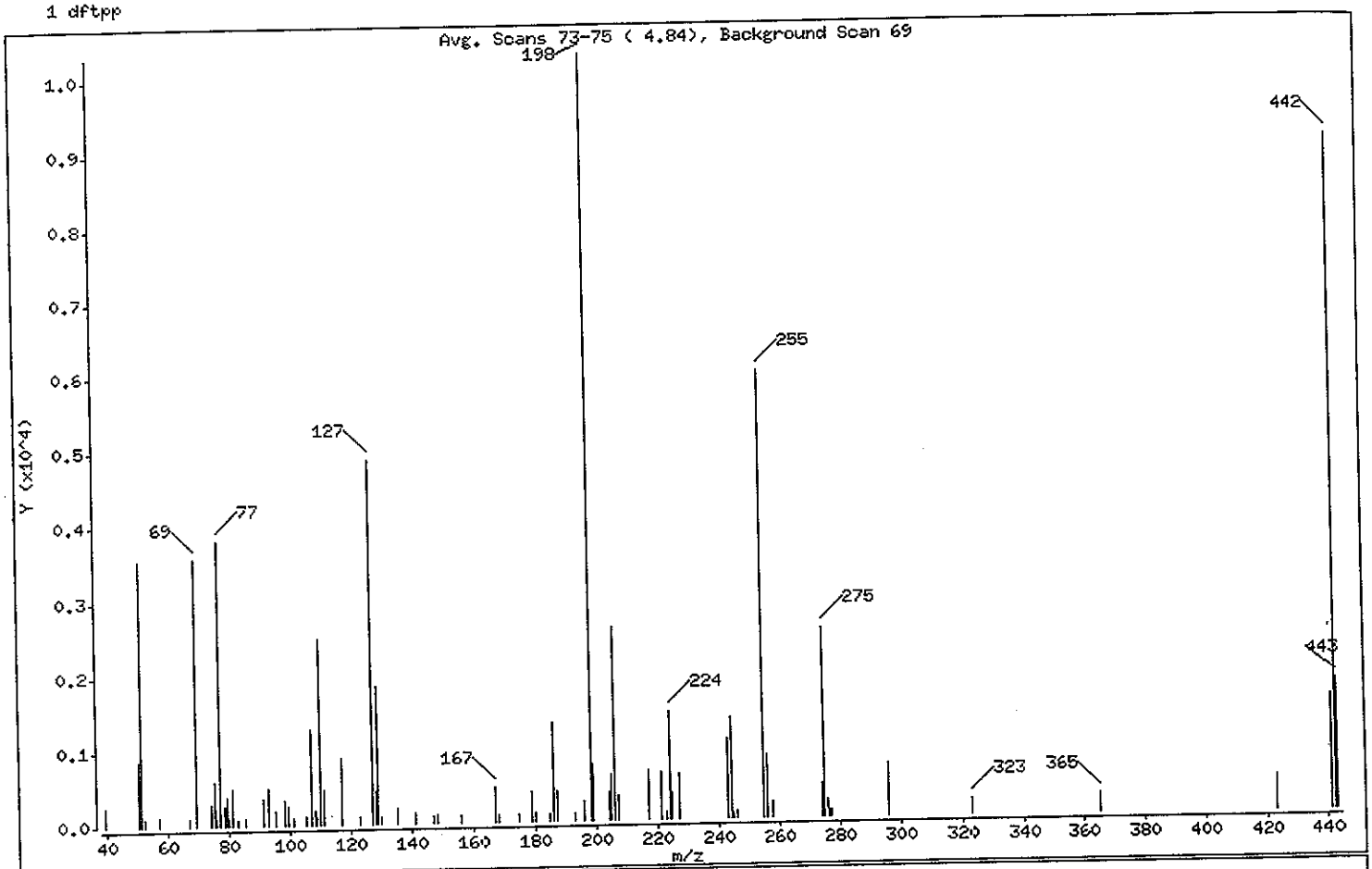
Instrument: MSBNA05.i

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.48
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.72
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.35
275	10.00 - 30.00% of mass 198	24.61
365	Greater than 1.00% of mass 198	2.59
441	Present, but less than mass 443	15.00
442	40.00 - 99.99% of mass 198	88.21
443	17.00 - 23.00% of mass 442	17.08 (19.36)

10/13/04

10/13/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC01.D

Date : 12-OCT-2004 11:02

Client ID: dftpp tune std

Instrument: MSBNA05.i

Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25

Data File: XJC01.D
Spectrum: Avg. Scans 73-75 (4.84), Background Scan 69
Location of Maximum: 198.00
Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	270	99.00	255	175.00	96	244.00	1355
50.00	878	101.00	85	179.00	399	245.00	83
51.00	3551	105.00	124	180.00	120	246.00	100
52.00	96	107.00	1273	185.00	93	255.00	6001
57.00	111	108.00	193	186.00	1338	256.00	850
67.00	89	109.00	90	187.00	404	258.00	225
69.00	3576	110.00	2480	193.00	88	274.00	450
74.00	276	111.00	480	196.00	256	275.00	2535
75.00	594	117.00	902	198.00	10299	276.00	244
76.00	105	123.00	101	199.00	757	277.00	85
77.00	3823	127.00	4887	204.00	370	296.00	706
78.00	272	128.00	455	205.00	610	323.00	217
79.00	390	129.00	1860	206.00	2583	365.00	267
80.00	102	130.00	98	207.00	336	423.00	485
81.00	504	135.00	216	217.00	667	441.00	1545
83.00	63	141.00	135	221.00	632	442.00	9085
85.00	88	147.00	95	223.00	91	443.00	1759
91.00	367	148.00	127	224.00	1438		
93.00	490	156.00	104	225.00	351		
95.00	183	167.00	485	227.00	613		
98.00	338	168.00	106	243.00	1079		

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC01.D

Date : 12-OCT-2004 11:02

Client ID: dftpp tune std

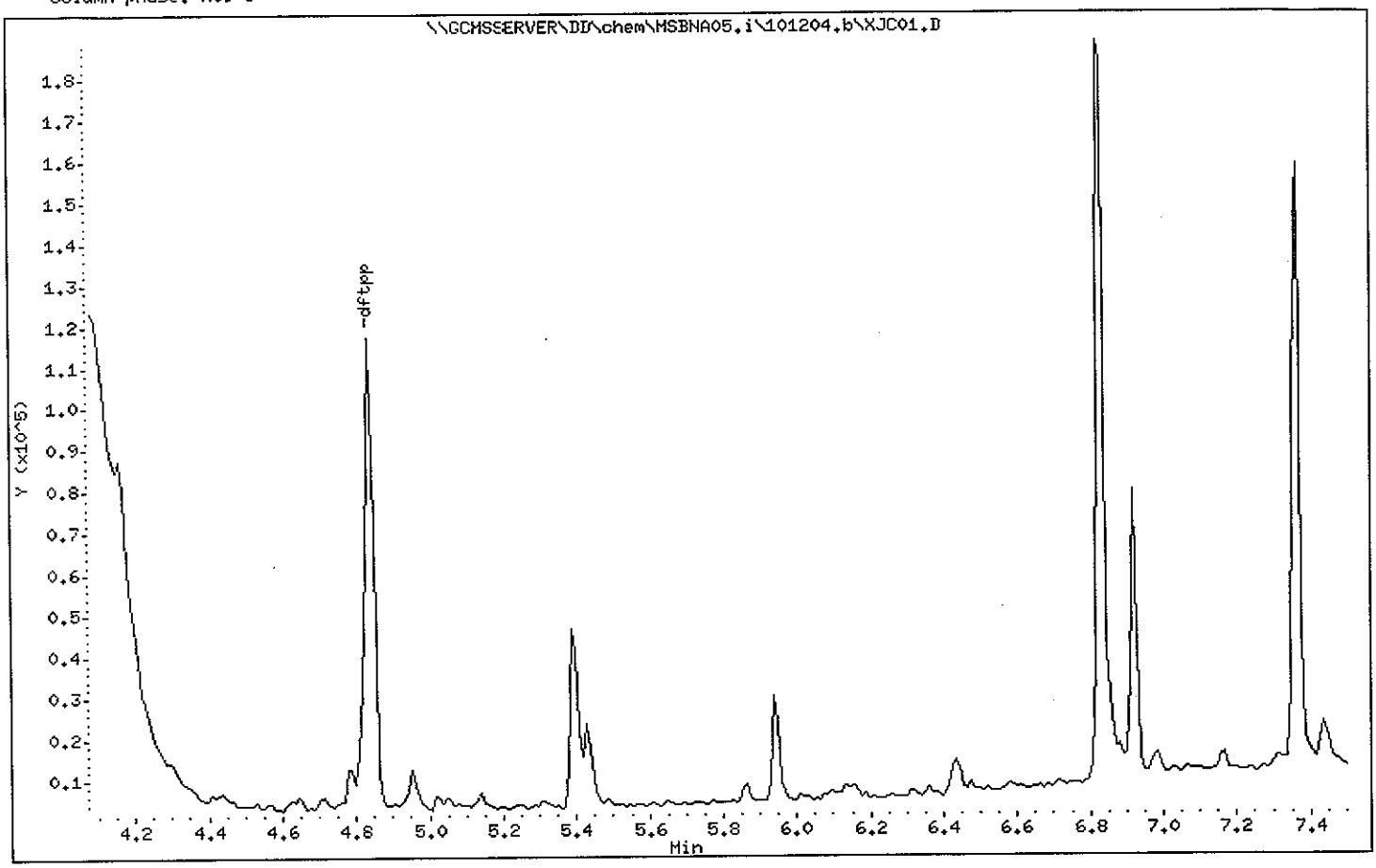
Instrument: MSBNA05.i

Sample Info: TUN,04WS1543

Operator: DL

Column phase: Xti 5

Column diameter: 0.25



BNA04 8270 Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534400909001 Name: 6PTBNA4 Type: (normal) Date: 04-OCT-2004 11:44 Inj Vol (uL): 1

See quant reports for manual integrations due to splitting/tailing.

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	wj404	534400909004	2ug/ml ICAL STD	04-OCT-2004 11:44	04WS1856
2	wj405	534400909005	10ug/ml ICAL STD	04-OCT-2004 12:18	04WS1857
3	wj406	534400909006	20ug/ml ICAL STD	04-OCT-2004 12:53	04WS1858
4	wj407	534400909007	50ug/ml ICAL STD	04-OCT-2004 13:29	04WS1859
5	wj409	534400909009	120ug/ml ICAL STD	04-OCT-2004 14:38	04WS1861
6	wj410	534400909010	160ug/ml ICAL STD	04-OCT-2004 15:14	04WS1862
7	wj412	534400909012	80ug/ml ICAL STD	04-OCT-2004 17:46	04WS1860

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.4385m	0.4421m	0.4431	0.4460	0.4407	0.4415m	AVRG	R		2.262537		ng	0.4420	1	0.0500	0.99	15	
Pyridine		0.7381m	0.7563m	0.7840	0.7701m	0.7780m	0.7493m	AVRG	R		1.311234		ng	0.7626	2	0.0500	0.99	15	
Phenol		1.3848	1.3147	1.2302	1.2589	1.2442	1.2313	AVRG	R		0.782876		ng	1.2773	5	0.0500	0.99	15	
Aniline		1.4324	1.4058	1.4009	1.3824	1.3512	1.3610	AVRG	R		0.719973		ng	1.3889	2	0.0500	0.99	15	
bis(2-Chloroethyl)ether		0.6108	0.6349m	0.8363m	0.9899m	1.0155m	0.9154m	QUAD	R	5.319919	1.070519	-0.00076	ng	0.8338	0.999	0.0500	0.99	15	
2-Chlorophenol		1.2564	1.2149	1.2548	1.2224	1.2059	1.2293	AVRG	R		0.812604		ng	1.2306	2	0.0500	0.99	15	
1,3-Dichlorobenzene		1.4766	1.4387	1.4271	1.3632	1.3617	1.4065	AVRG	R		0.708057		ng	1.4123	3	0.0500	0.99	15	
1,4-Dichlorobenzene		1.5164	1.4705	1.4722	1.4300	1.4118	1.4662	AVRG	R		0.684378		ng	1.4612	3	0.0500	0.99	15	
Benzyl alcohol		0.6592	0.6588	0.6373	0.6768	0.6724	0.6730	AVRG	R		1.508528		ng	0.6629	2	0.0500	0.99	15	
1,2-Dichlorobenzene		1.4168	1.3246	1.3066	1.3260	1.3234	1.3293	AVRG	R		0.747495		ng	1.3378	3	0.0500	0.99	15	
2-Methylphenol		0.8564	0.8116	0.7974	0.8163	0.8102	0.8169	AVRG	R		1.222312		ng	0.8181	2	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		1.5789	1.5156	1.5566	1.7027	1.7407	1.5924	AVRG	R		0.619392		ng	1.6145	5	0.0500	0.99	15	
4-Methylphenol		1.2314	1.2051	1.1937	1.2374m	1.2740m	1.2162	AVRG	R		0.815454		ng	1.2263	2	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.6060	0.5860	0.6208	0.6861	0.6540	0.6252	AVRG	R		1.588133		ng	0.6297	6	0.0500	0.99	15	
Hexachloroethane		0.6582	0.6622	0.6508	0.6669	0.6600	0.6332	AVRG	R		1.526234		ng	0.6552	2	0.0500	0.99	15	
Nitrobenzene		0.3586	0.3587	0.3493	0.3476	0.3340	0.3395	AVRG	R		2.873779		ng	0.3480	3	0.0500	0.99	15	
Isophorone		0.6878	0.6655	0.6531	0.6624m	0.6462m	0.6694	AVRG	R		1.505888		ng	0.6641	2	0.0500	0.99	15	
2-Nitrophenol		0.2414	0.2270	0.2217	0.2396	0.2421	0.2184	AVRG	R		4.315979		ng	0.2317	5	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL: Ok except Benzidine fails %RSD + r^2
CCV: 3-Nitroaniline ↓; 4-Nitroaniline ↓; Carbazole ↓; Benzidine ↓ fail %D
→ Pyridine ↑ fails warning limits

AK 10/04/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534400909001 Name: 6PTBNA4 Type: (normal) Date: 04-OCT-2004 11:44 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.3080	0.2845	0.2775	0.2761	0.2664	0.2764	AVRG	R		3.552349		ng	0.2815	5	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4107	0.3884	0.3723	0.3829	0.3731	0.3860	AVRG	R		2.593499		ng	0.3856	4	0.0500	0.99	15	
Benzoic acid		0.0953	0.1238	0.1684	0.2069m	0.2205m	0.1969	QUAD	R	6.664287	5.090533	-0.02125	ng	0.1686	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3646	0.3522	0.3540	0.3756	0.3633	0.3603	AVRG	R		2.765029		ng	0.3617	2	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.4286	0.4237	0.4256	0.4389	0.4317	0.4180	AVRG	R		2.337952		ng	0.4277	2	0.0500	0.99	15	
Naphthalene	1.0735	1.1108	1.0436	1.0430	1.1215	1.1404	1.0148	AVRG	R		0.927454		ng	1.0782	4	0.0500	0.99	15	
4-Chloroaniline		0.4371	0.4416	0.4271	0.4328	0.4348	0.4353	AVRG	R		2.299882		ng	0.4348	1	0.0500	0.99	15	
Hexachlorobutadiene		0.3094	0.3025	0.3071	0.3114	0.2941	0.3063	AVRG	R		3.277356		ng	0.3051	2	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.3554	0.3507	0.3374	0.3491	0.3422	0.3269	AVRG	R		2.910373		ng	0.3436	3	0.0500	0.99	15	
2-Methylnaphthalene	0.8033	0.7654	0.7564	0.7528	0.8152	0.8084	0.7755	AVRG	R		1.278052		ng	0.7824	3	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.1931	0.2542	0.3100	0.3627	0.3638	0.2996	QUAD	R	4.488277	3.153619	-0.00887	ng	0.2972	0.997	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.4523	0.4307	0.4715	0.5106	0.5046	0.4559	AVRG	R		2.123393		ng	0.4709	7	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.4571	0.4863	0.4346	0.4809	0.5047	0.4763	AVRG	R		2.112727		ng	0.4733	5	0.0500	0.99	15	
2-Chloronaphthalene		1.1617	1.1209	1.0883	1.1640	1.1728	1.1074	AVRG	R		0.880390		ng	1.1359	3	0.0500	0.99	15	
2-Nitroaniline		0.3432	0.3236	0.3218	0.3346	0.3372	0.3269	AVRG	R		3.018986		ng	0.3312	3	0.0500	0.99	15	
Dimethylphthalate		1.6633	1.6102	1.5328	1.5523	1.5553	1.5632	AVRG	R		0.633094		ng	1.5795	3	0.0500	0.99	15	
2,6-Dinitrotoluene		0.3636	0.3508	0.3600	0.3711	0.4258	0.3569	AVRG	R		2.692640		ng	0.3714	7	0.0500	0.99	15	
Acenaphthylene	1.8231	1.8499	1.7910	1.7604	1.8910	1.8994	1.8529	AVRG	R		0.544002		ng	1.8382	3	0.0500	0.99	15	
3-Nitroaniline		0.2934	0.2616	0.2767	0.3015	0.3080	0.2903	AVRG	R		3.465194		ng	0.2886	6	0.0500	0.99	15	
Acenaphthene	0.9995	1.0884	1.0450	1.0208	1.0972	1.1325	1.0893	AVRG	R		0.936740		ng	1.0675	4	0.0500	0.99	15	
2,4-Dinitrophenol		0.1440	0.1903	0.2276	0.2648	0.2605	0.2375	QUAD	R	5.238211	3.929939	-0.00619	ng	0.2208	0.999	0.0500	0.99	15	
4-Nitrophenol		0.1995	0.2127	0.2293	0.2364	0.2300	0.2467	AVRG	R		4.429581		ng	0.2258	8	0.0500	0.99	15	
Dibenzofuran		1.6823	1.6216	1.5380	1.8303	1.8069	1.5983	AVRG	R		0.595397		ng	1.6796	7	0.0500	0.99	15	
2,4-Dinitrotoluene		0.4692	0.4710	0.4542	0.4690	0.5013	0.4732	AVRG	R		2.114298		ng	0.4730	3	0.0500	0.99	15	
Diethylphthalate		1.7169	1.6634	1.6001	1.6600	1.5823	1.5538	AVRG	R		0.613719		ng	1.6294	4	0.0500	0.99	15	
Fluorene	1.2321	1.3263	1.2687	1.3494	1.3937	1.4210	1.4491	AVRG	R		0.741497		ng	1.3486	6	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.7430	0.7468	0.8389	0.8834	0.8203	0.8502	AVRG	R		1.228901		ng	0.8137	7	0.0500	0.99	15	
4-Nitroaniline		0.2073	0.2083	0.2194	0.2634	0.2646	0.2501	AVRG	R		4.245842		ng	0.2355	11	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1385	0.1597	0.1666	0.1871	0.1980	0.1759	AVRG	R		5.849010		ng	0.1710	12	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.5333	0.5193	0.4983	0.5572	0.5720	0.5293	AVRG	R		1.869497		ng	0.5349	5	0.0500	0.99	15	
Azobenzene		0.7216	0.7255	0.6792	0.7954	0.8081	0.7481	AVRG	R		1.339923		ng	0.7463	7	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534400909001 Name: 6PTBNA4 Type: (normal) Date: 04-OCT-2004 11:44 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2604	0.2586	0.2629	0.2839	0.2843	0.2701	AVRG	R		3.703296		ng	0.2700	4	0.0500	0.99	15	
Hexachlorobenzene		0.3150	0.3043	0.3138	0.3213	0.3158	0.3246	AVRG	R		3.166539		ng	0.3158	2	0.0500	0.99	15	
Pentachlorophenol		0.1653	0.1822	0.1847	0.2164	0.2194	0.2003	AVRG	R		5.136312		ng	0.1947	11	0.0500	0.99	15	
Phenanthrene	1.0582	1.0839	1.0657	1.0359	1.1873	1.1309	1.0603	AVRG	R		0.918354		ng	1.0889	5	0.0500	0.99	15	
Anthracene	1.0811	1.0858	1.0734	1.0495	1.1247	1.0627	1.0591	AVRG	R		0.928826		ng	1.0766	2	0.0500	0.99	15	
Carbazole		0.8208	0.7306	0.6581	0.8422	0.8094	0.7301	AVRG	R		1.306863		ng	0.7652	9	0.0500	0.99	15	
Di-n-butylphthalate		1.7465	1.7054	1.6242	1.5514	1.5303	1.6036	AVRG	R		0.614664		ng	1.6269	5	0.0500	0.99	15	
Fluoranthene	1.1820	1.2479	1.2247	1.2423	1.3061	1.2350	1.2667	AVRG	R		0.804158		ng	1.2435	3	0.0500	0.99	15	
Benzidine		0.1397	0.1704	0.1135	0.0948	0.1012	0.1312	AVRG	R		7.991822		ng	0.1251	22	0.0500	0.99	15	rsd
Pyrene	1.3909	1.4379	1.3843	1.3780	1.4488	1.4579	1.4269	AVRG	R		0.705312		ng	1.4178	2	0.0500	0.99	15	
Butylbenzylphthalate		0.8196	0.7942	0.7362	0.7551	0.7594	0.8242	AVRG	R		1.279668		ng	0.7815	5	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3741	0.3448	0.4107	0.4548	0.4084	0.4683	AVRG	R		2.437919		ng	0.4102	11	0.0500	0.99	15	
Benzo(a)anthracene	1.2972	1.2625	1.2337	1.2820	1.2237	1.1831	1.3430	AVRG	R		0.793194		ng	1.2607	4	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		1.1398	1.1191	1.1215	1.1223	1.1264	1.2728	AVRG	R		0.869333		ng	1.1503	5	0.0500	0.99	15	
Chrysene	1.2630	1.1778	1.1508	1.2694	1.1265	1.1337	1.2285	AVRG	R		0.838351		ng	1.1928	5	0.0500	0.99	15	
Di-n-octylphthalate		2.1807	2.1938	2.3105	2.7323	2.7705	2.6924	AVRG	R		0.403219		ng	2.4800	11	0.0500	0.99	15	
Benzo(b)fluoranthene	1.4521m	1.3529m	1.4886m	1.5380m	2.1966	2.3714	1.7763	QUAD	R	2.707313	0.597962	-0.00050	ng	1.7394	0.997	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3666	1.5506	1.3657	1.5589	1.2698	1.0834	1.4986	AVRG	R		0.722120		ng	1.3848	12	0.0500	0.99	15	
Benzo(a)pyrene	1.1702	1.2096	1.2209	1.2538	1.3032	1.3508	1.2916	AVRG	R		0.795447		ng	1.2572	5	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.1531	1.2714	1.2683	1.2401	1.1994	1.1699	1.1985	AVRG	R		0.823461		ng	1.2144	4	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9671	1.0124	1.0067	1.0035	0.9774	0.9508	0.9743	AVRG	R		1.015637		ng	0.9846	2	0.0500	0.99	15	
Benzo(g,h,i)perylene	0.9932	1.0099	1.0075	0.9877	0.9006	0.8698	0.9111	AVRG	R		1.047929		ng	0.9543	6	0.0500	0.99	15	
2-Fluorophenol		1.1043	1.0698	1.1060	1.0590	1.0469	1.0820	AVRG	R		0.927636		ng	1.0780	2	0.0500	0.99	15	
Phenol-d5		1.1931	1.1659	1.1821	1.1753	1.1597	1.1895	AVRG	R		0.849178		ng	1.1776	1	0.0500	0.99	15	
Nitrobenzene-d5		0.3937	0.3884	0.3790	0.3702	0.3682	0.3706	AVRG	R		2.642916		ng	0.3784	3	0.0500	0.99	15	
2-Fluorobiphenyl		1.4110	1.3641	1.3564	1.4509	1.4534	1.4088	AVRG	R		0.710513		ng	1.4074	3	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2749	0.2620	0.2803	0.3160	0.3031	0.2839	AVRG	R		3.487860		ng	0.2867	7	0.0500	0.99	15	
Terphenyl-d14		1.0726	1.0616	1.0993	1.0853	1.0369	1.1857	AVRG	R		0.917232		ng	1.0902	5	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Target Software Initial Calibration Summary Sent to LIMS: 6PTBNA4

Calibration 534400909001 6PTBNA4 created.

No problems detected.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ404.D
Report Date: 05-Oct-2004 08:57

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ404.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 11:44 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1856
Misc Info : 2ug/ml ICAL STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:57 target Quant Type: ISTD
Cal Date : 04-OCT-2004 11:44 Cal File: WJ404.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
2 Pyridine	79	3.204	3.071	(0.542)	7386	2.00000	1.8276(aM)
$ 3 2-Fluorophenol	112	4.482	4.482	(0.758)	11033	2.00000	1.9313(a)
$ 4 Phenol-d5	99	5.525	5.556	(0.934)	11528	2.00000	1.8473(aQ)
5 Phenol	94	5.536	5.566	(0.936)	21033	2.00000	3.1073(aQ)
6 Aniline	66	5.556	5.566	(0.939)	17835	2.00000	2.4231(aQ)
7 bis(2-Chloroethyl)ether	63	5.638	5.648	(0.953)	6746	2.00000	6.6814(Q)
8 2-Chlorophenol	128	5.679	5.689	(0.960)	12618	2.00000	1.9349(aQ)
9 1,3-Dichlorobenzene	146	5.853	5.852	(0.990)	14879	2.00000	1.9880(aQ)
* 10 1,4-Dichlorobenzene-d4	152	5.914	5.924	(1.000)	211967	40.0000	(Q)
11 1,4-Dichlorobenzene	146	5.934	5.945	(1.003)	15313	2.00000	1.9776(aQ)
12 Benzyl alcohol	108	6.088	6.118	(1.029)	6752	2.00000	1.9221(aQ)
13 1,2-Dichlorobenzene	146	6.098	6.108	(1.031)	14786	2.00000	2.0856(aQ)
14 2-Methylphenol	107	6.221	6.241	(1.052)	9195	2.00000	2.1209(aQ)
15 bis(2-Chloroisopropyl) ether	45	6.241	6.262	(1.055)	16817	2.00000	1.9656(aQ)
16 4-Methylphenol	107	6.395	6.435	(1.081)	12827	2.00000	1.9738(aQ)
17 N-Nitroso-di-n-propylamine	70	6.395	6.456	(1.081)	6132	2.00000	1.8377(aQ)
18 Hexachloroethane	117	6.476	6.487	(1.095)	6690	2.00000	1.9268(aQ)
$ 19 Nitrobenzene-d5	82	6.558	6.589	(0.888)	13240	2.00000	2.1269(aQ)
20 Nitrobenzene	77	6.579	6.609	(0.891)	11921	2.00000	2.0823(aQ)
21 Isophorone	82	6.865	6.896	(0.929)	21653	2.00000	1.9819(a)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ404.D
Report Date: 05-Oct-2004 08:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	22 2-Nitrophenol	139	6.957	6.967	(0.942)	6548	2.00000	1.7177(aQ)
	23 2,4-Dimethylphenol	122	7.008	7.049	(0.949)	10172	2.00000	2.1963(aQ)
	24 bis(2-Chloroethoxy)methane	93	7.121	7.151	(0.964)	12728	2.00000	2.0064(a)
	26 2,4-Dichlorophenol	162	7.233	7.254	(0.979)	12225	2.00000	2.0546(aQ)
	25 Benzoic acid	122	7.008	7.315	(0.949)	10172	2.00000	9.8035
	27 1,2,4-Trichlorobenzene	180	7.325	7.346	(0.992)	13904	2.00000	1.9758(aQ)
*	28 Naphthalene-d8	136	7.387	7.407	(1.000)	658080	40.0000	
	29 Naphthalene	128	7.407	7.428	(1.003)	35321	2.00000	1.9911(a)
	30 4-Chloroaniline	127	7.499	7.520	(1.015)	14339	2.00000	2.0044(a)
	31 Hexachlorobutadiene	225	7.561	7.571	(1.024)	9261	2.00000	1.8448(aQ)
	32 4-Chloro-3-methylphenol	107	8.082	8.103	(1.094)	10058	2.00000	1.7792(aQ)
	33 2-Methylnaphthalene	142	8.236	8.256	(1.115)	26433	2.00000	2.0534(aQ)
	34 Hexachlorocyclopentadiene	237	8.430	8.439	(0.888)	1872	2.00000	5.0445(Q)
	35 2,4,6-Trichlorophenol	196	8.583	8.603	(0.904)	9947	2.00000	1.9910(aQH)
	36 2,4,5-Trichlorophenol	196	8.624	8.645	(0.908)	9821	2.00000	1.9559(aQ)
$	37 2-Fluorobiphenyl	172	8.686	8.706	(0.915)	30297	2.00000	2.0292(aQ)
	38 2-Chloronaphthalene	162	8.819	8.839	(0.929)	23762	2.00000	1.9720(aQ)
	39 2-Nitroaniline	65	8.962	8.992	(0.944)	6418	2.00000	1.8264(aQ)
	40 Dimethylphthalate	163	9.187	9.228	(0.968)	32420	2.00000	1.9347(a)
	41 2,6-Dinitrotoluene	165	9.269	9.309	(0.976)	6357	2.00000	1.6135(aQ)
	42 Acenaphthylene	152	9.310	9.340	(0.981)	38680	2.00000	1.9835(a)
	43 3-Nitroaniline	138	9.463	9.504	(0.997)	5864	2.00000	1.9154(aQ)
*	44 Acenaphthene-d10	164	9.494	9.504	(1.000)	424332	40.0000	(Q)
	45 Acenaphthene	154	9.524	9.555	(1.003)	21207	2.00000	1.8726(aQ)
	46 2,4-Dinitrophenol	184	9.606	9.637	(1.012)	1420	2.00000	5.7641(aQ)
	47 4-Nitrophenol	109	9.688	9.739	(1.020)	5743	2.00000	2.3980(aQ)
	48 Dibenzofuran	168	9.729	9.759	(1.025)	32098	2.00000	1.8015(aQ)
	51 2,4-Dinitrotoluene	165	9.749	9.790	(1.027)	9275	2.00000	1.8485(aQ)
	49 Diethylphthalate	149	10.036	10.087	(1.057)	33914	2.00000	1.9620(a)
	52 Fluorene	166	10.148	10.179	(1.069)	26142	2.00000	1.8272(aQ)
	50 4-Chlorophenyl-phenylether	204	10.158	10.179	(1.070)	14687	2.00000	1.7013(aQ)
	53 4-Nitroaniline	138	10.199	10.281	(1.074)	4779	2.00000	1.9127(aM)
	55 N-Nitrosodiphenylamine	169	10.302	10.353	(0.913)	18611	2.00000	1.9249(aQ)
	56 Azobenzene	77	10.343	10.373	(0.917)	24657	2.00000	1.8278(a)
$	57 2,4,6-Tribromophenol	330	10.445	10.475	(1.100)	5479	2.00000	1.8014(aQ)
	58 4-Bromophenyl-phenylether	248	10.741	10.772	(0.952)	9496	2.00000	1.9455(aQ)
	59 Hexachlorobenzene	284	10.813	10.844	(0.958)	11184	2.00000	1.9593(aQ)
	60 Pentachlorophenol	266	11.069	11.089	(0.981)	6654	2.00000	1.8908(aQ)
*	61 Phenanthrene-d10	188	11.283	11.304	(1.000)	722997	40.0000	
	62 Phenanthrene	178	11.304	11.334	(1.002)	38254	2.00000	1.9436(aH)
	63 Anthracene	178	11.365	11.396	(1.007)	39081	2.00000	2.0082(a)
	64 Carbazole	167	11.580	11.600	(1.026)	32097	2.00000	2.3206(a)
	65 Di-n-butylphthalate	149	12.020	12.040	(1.065)	61196	2.00000	2.0810(a)
	66 Fluoranthene	202	12.746	12.766	(1.130)	42730	2.00000	1.9010(a)
	68 Pyrene	202	13.012	13.043	(0.898)	43895	2.00000	1.9620(a)
	67 Benzidine	184	12.930	12.950	(0.893)	7054	2.00000	3.5727(a)
$	69 Terphenyl-d14	244	13.216	13.247	(0.912)	33220	2.00000	1.9310(a)
	70 Butylbenzylphthalate	149	13.820	13.850	(0.954)	24634	2.00000	1.9977(aQ)
	71 3,3'-Dichlorobenzidine	252	14.454	14.485	(0.998)	14333	2.00000	2.2144(aQ)
	72 Benzo(a)anthracene	228	14.464	14.485	(0.999)	40938	2.00000	2.0578(aH)
*	73 Chrysene-d12	240	14.485	14.505	(1.000)	631165	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.526	14.546	(1.003)	34219	2.00000	1.8852(aQ)
	74 Chrysene	228	14.505	14.546	(1.001)	39858	2.00000	2.1176(a)
	76 Di-n-octylphthalate	149	15.334	15.364	(0.930)	50913	2.00000	1.5123(a)

10/5/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ404.D
Report Date: 05-Oct-2004 08:57

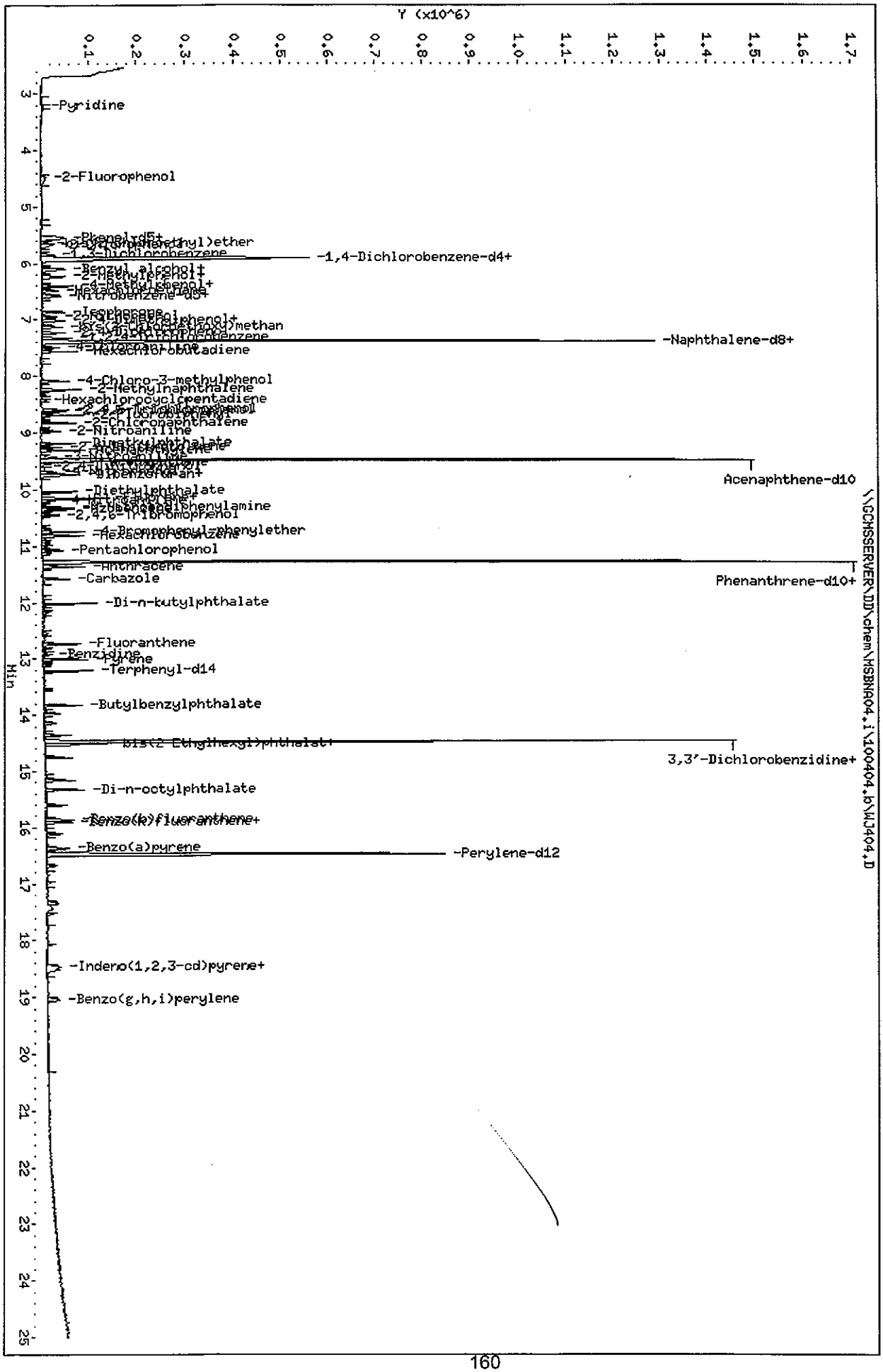
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
77 Benzo(b)fluoranthene	252	15.865	15.927	(0.963)	39423	2.00000	4.4397(aM)
78 Benzo(k)fluoranthene	252	15.906	15.957	(0.965)	37101	2.00000	1.9736(aA)
79 Benzo(a)pyrene	252	16.367	16.418	(0.993)	31769	2.00000	1.8616(aH)
* 80 Perylene-d12	264	16.479	16.510	(1.000)	542977	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.463	18.535	(1.120)	31306	2.00000	1.8991(a)
82 Dibenz(a,h)anthracene	278	18.514	18.596	(1.123)	26256	2.00000	1.9644(a)
83 Benzo(g,h,i)perylene	276	19.036	19.138	(1.155)	26965	2.00000	2.0816(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ404.D
Date : 04-OCT-2004 11:44
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1856
Volume Injected (uL): 1.0
Column phase: Hti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ405.D
Report Date: 05-Oct-2004 08:57

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ405.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 12:18 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1857
Misc Info : 10ug/ml ICAL STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:57 target Quant Type: ISTD
Cal Date : 04-OCT-2004 12:18 Cal File: WJ405.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	3.108	3.081	(0.526)	24048	10.0000	9.9221 (QM)
2 Pyridine	79	3.108	3.071	(0.526)	40477	10.0000	9.6787 (QM)
$ 3 2-Fluorophenol	112	4.489	4.482	(0.759)	60558	10.0000	10.2442 (Q)
$ 4 Phenol-d5	99	5.522	5.556	(0.934)	65425	10.0000	10.1314 (Q)
5 Phenol	94	5.542	5.566	(0.938)	75938	10.0000	10.8413 (Q)
6 Aniline	66	5.552	5.566	(0.939)	78549	10.0000	10.3130 (Q)
7 bis(2-Chloroethyl)ether	63	5.634	5.648	(0.953)	33496	10.0000	11.8306 (Q)
8 2-Chlorophenol	128	5.675	5.689	(0.960)	68898	10.0000	10.2097 (Q)
9 1,3-Dichlorobenzene	146	5.849	5.852	(0.990)	80972	10.0000	10.4552 (Q)
* 10 1,4-Dichlorobenzene-d4	152	5.910	5.924	(1.000)	219346	40.0000	(Q)
11 1,4-Dichlorobenzene	146	5.931	5.945	(1.003)	83153	10.0000	10.3777 (Q)
12 Benzyl alcohol	108	6.084	6.118	(1.029)	36146	10.0000	9.9436 (Q)
13 1,2-Dichlorobenzene	146	6.105	6.108	(1.033)	77690	10.0000	10.5901 (Q)
14 2-Methylphenol	107	6.217	6.241	(1.052)	46963	10.0000	10.4681 (Q)
15 bis(2-Chloroisopropyl) ether	45	6.238	6.262	(1.055)	86583	10.0000	9.7797 (Q)
16 4-Methylphenol	107	6.401	6.435	(1.083)	67528	10.0000	10.0418 (Q)
17 N-Nitroso-di-n-propylamine	70	6.401	6.456	(1.083)	33231	10.0000	9.6241 (Q)
18 Hexachloroethane	117	6.473	6.487	(1.095)	36093	10.0000	10.0455 (Q)
$ 19 Nitrobenzene-d5	82	6.555	6.589	(0.888)	69446	10.0000	10.4064 (Q)
20 Nitrobenzene	77	6.585	6.609	(0.892)	63251	10.0000	10.3060 (Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ405.D
Report Date: 05-Oct-2004 08:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.861	6.896	(0.929)	121303	10.0000	10.3570
	22 2-Nitrophenol	139	6.953	6.967	(0.942)	42571	10.0000	10.4175(Q)
	23 2,4-Dimethylphenol	122	7.015	7.049	(0.950)	54316	10.0000	10.9399(Q)
	24 bis(2-Chloroethoxy)methane	93	7.127	7.151	(0.965)	72438	10.0000	10.6517(Q)
	26 2,4-Dichlorophenol	162	7.230	7.254	(0.979)	64305	10.0000	10.0812(Q)
	25 Benzoic acid	122	7.138	7.315	(0.967)	16805	10.0000	11.4953(Q)
	27 1,2,4-Trichlorobenzene	180	7.322	7.346	(0.992)	75585	10.0000	10.0193(Q)
*	28 Naphthalene-d8	136	7.383	7.407	(1.000)	705488	40.0000	
	29 Naphthalene	128	7.414	7.428	(1.004)	195910	10.0000	10.3019
	30 4-Chloroaniline	127	7.496	7.520	(1.015)	77101	10.0000	10.0539(Q)
	31 Hexachlorobutadiene	225	7.557	7.571	(1.024)	54562	10.0000	10.1387(Q)
	32 4-Chloro-3-methylphenol	107	8.079	8.103	(1.094)	62676	10.0000	10.3423(Q)
	33 2-Methylnaphthalene	142	8.232	8.256	(1.115)	135002	10.0000	9.7827(Q)
	34 Hexachlorocyclopentadiene	237	8.426	8.439	(0.888)	21620	10.0000	10.5435(Q)
	35 2,4,6-Trichlorophenol	196	8.590	8.603	(0.905)	50648	10.0000	9.6033(Q)
	36 2,4,5-Trichlorophenol	196	8.631	8.645	(0.909)	51191	10.0000	9.6575(Q)
$	37 2-Fluorobiphenyl	172	8.682	8.706	(0.915)	158019	10.0000	10.0256(Q)
	38 2-Chloronaphthalene	162	8.815	8.839	(0.929)	130096	10.0000	10.2275(Q)
	39 2-Nitroaniline	65	8.958	8.992	(0.944)	38438	10.0000	10.3622(aQ)
	40 Dimethylphthalate	163	9.193	9.228	(0.969)	186272	10.0000	10.5304
	41 2,6-Dinitrotoluene	165	9.265	9.309	(0.976)	40722	10.0000	9.7912(Q)
	42 Acenaphthylene	152	9.316	9.340	(0.982)	207162	10.0000	10.0633
	43 3-Nitroaniline	138	9.469	9.504	(0.998)	32861	10.0000	10.1680(aQ)
*	44 Acenaphthene-d10	164	9.490	9.504	(1.000)	447950	40.0000	(Q)
	45 Acenaphthene	154	9.531	9.555	(1.004)	121892	10.0000	10.1958(Q)
	46 2,4-Dinitrophenol	184	9.602	9.637	(1.012)	16126	10.0000	10.8844(aQ)
	47 4-Nitrophenol	109	9.684	9.739	(1.020)	22347	10.0000	8.8391(aQH)
	48 Dibenzofuran	168	9.735	9.759	(1.026)	188398	10.0000	10.0164(Q)
	51 2,4-Dinitrotoluene	165	9.756	9.790	(1.028)	52539	10.0000	9.9192(Q)
	49 Diethylphthalate	149	10.042	10.087	(1.058)	192272	10.0000	10.5369
	52 Fluorene	166	10.144	10.179	(1.069)	148524	10.0000	9.8341(Q)
	50 4-Chlorophenyl-phenylether	204	10.155	10.179	(1.070)	83208	10.0000	9.1308(Q)
	53 4-Nitroaniline	138	10.206	10.281	(1.075)	23217	10.0000	8.8023(aQ)
	54 4,6-Dinitro-2-methylphenol	198	10.247	10.301	(0.908)	26767	10.0000	8.1024(aQ)
	55 N-Nitrosodiphenylamine	169	10.308	10.353	(0.914)	103048	10.0000	9.9700(Q)
	56 Azobenzene	77	10.349	10.373	(0.917)	139434	10.0000	9.6689(Q)
$	57 2,4,6-Tribromophenol	330	10.441	10.475	(1.100)	30789	10.0000	9.5892(Q)
	58 4-Bromophenyl-phenylether	248	10.748	10.772	(0.953)	50324	10.0000	9.6448(Q)
	59 Hexachlorobenzene	284	10.820	10.844	(0.959)	60870	10.0000	9.9751(Q)
	60 Pentachlorophenol	266	11.065	11.089	(0.981)	31944	10.0000	8.4912(aQ)
*	61 Phenanthrene-d10	188	11.280	11.304	(1.000)	772907	40.0000	
	62 Phenanthrene	178	11.310	11.334	(1.003)	209445	10.0000	9.9543(H)
	63 Anthracene	178	11.362	11.396	(1.007)	209814	10.0000	10.0855
	64 Carbazole	167	11.576	11.600	(1.026)	158606	10.0000	10.7270
	65 Di-n-butylphthalate	149	12.016	12.040	(1.065)	337474	10.0000	10.7352
	66 Fluoranthene	202	12.742	12.766	(1.130)	241124	10.0000	10.0349
	68 Pyrene	202	13.008	13.043	(0.898)	245316	10.0000	10.1413
	67 Benzidine	184	12.926	12.950	(0.893)	23839	10.0000	11.1666
$	69 Terphenyl-d14	244	13.223	13.247	(0.913)	182991	10.0000	9.8377
	70 Butylbenzylphthalate	149	13.826	13.850	(0.955)	139830	10.0000	10.4878(Q)
	71 3,3'-Dichlorobenzidine	252	14.450	14.485	(0.998)	63834	10.0000	9.1213(aQ)
	72 Benzo(a)anthracene	228	14.461	14.485	(0.999)	215392	10.0000	10.0137(H)
*	73 Chrysene-d12	240	14.481	14.505	(1.000)	682452	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.522	14.546	(1.003)	194457	10.0000	9.9082(Q)

10/5/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ405.D
Report Date: 05-Oct-2004 08:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Chrysene	228	14.512	14.546	(1.002)	200954	10.0000	9.8743
76 Di-n-octylphthalate	149	15.330	15.364	(0.930)	318635	10.0000	8.7931
77 Benzo(b)fluoranthene	252	15.872	15.927	(0.963)	197683	10.0000	10.7060(M)
78 Benzo(k)fluoranthene	252	15.903	15.957	(0.965)	226562	10.0000	11.1970(A)
79 Benzo(a)pyrene	252	16.373	16.418	(0.993)	176739	10.0000	9.6217(H)
* 80 Perylene-d12	264	16.486	16.510	(1.000)	584455	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.470	18.535	(1.120)	185774	10.0000	10.4697
82 Dibenz(a,h)anthracene	278	18.521	18.596	(1.123)	147921	10.0000	10.2819
83 Benzo(g,h,i)perylene	276	19.043	19.138	(1.155)	147564	10.0000	10.5833

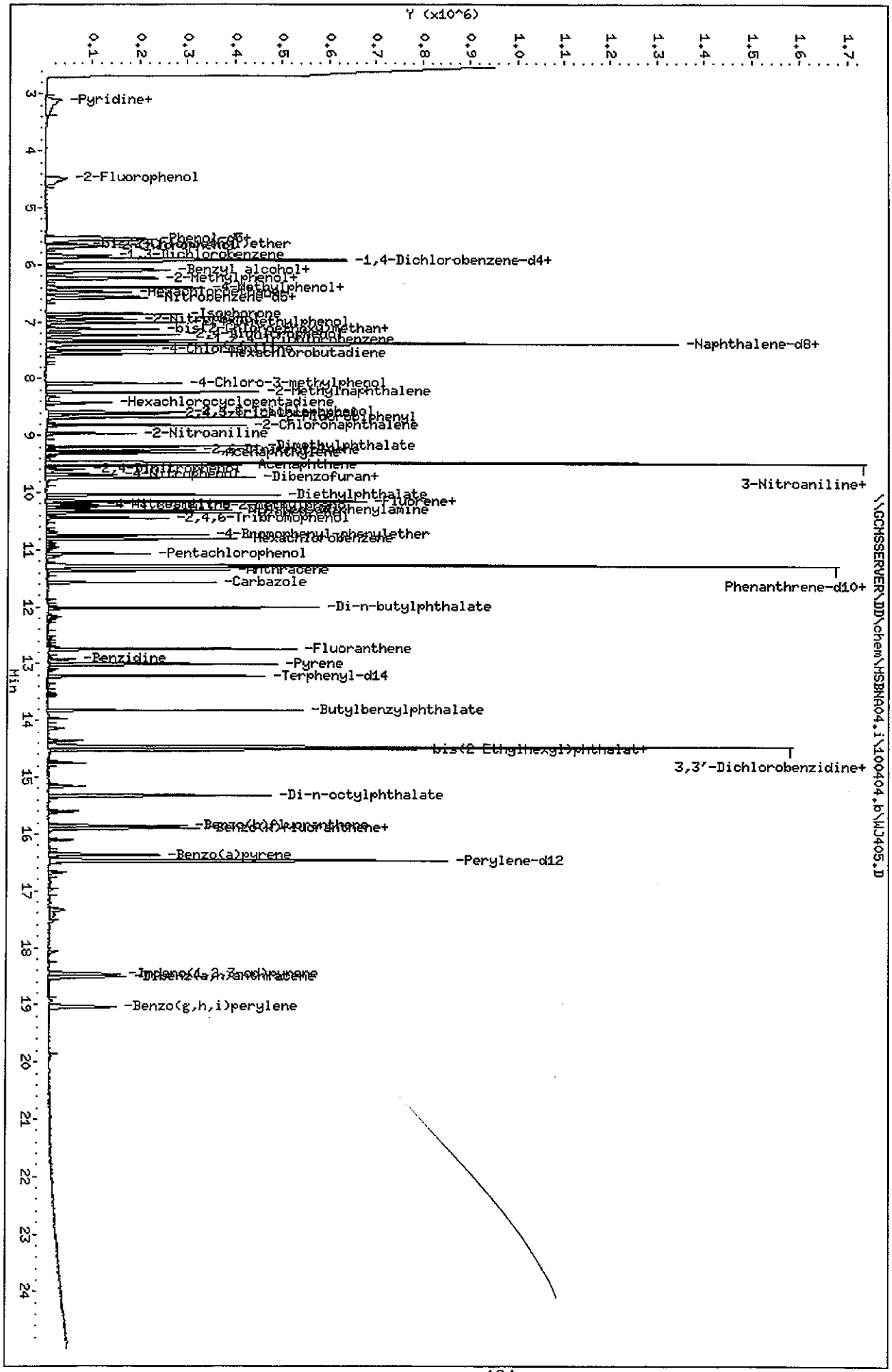
15%/20%

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ405.D
Date : 04-OCT-2004 12:18
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1857
Volume Injected (uL): 1.0
Column phase: Mti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ406.D
Report Date: 05-Oct-2004 08:57

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ406.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 12:53 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1858
Misc Info : 20ug/ml ICAL STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:57 target Quant Type: ISTD
Cal Date : 04-OCT-2004 12:53 Cal File: WJ406.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
	1 N-Nitrosodimethylamine	74	3.091	3.081	(0.523)	53485	20.0000	20.0055(QM)
	2 Pyridine	79	3.081	3.071	(0.521)	91502	20.0000	19.8350(QM)
$	3 2-Fluorophenol	112	4.482	4.482	(0.758)	129421	20.0000	19.8474(Q)
$	4 Phenol-d5	99	5.526	5.556	(0.934)	141051	20.0000	19.8014(Q)
	5 Phenol	94	5.546	5.566	(0.938)	159045	20.0000	20.5842(Q)
	6 Aniline	66	5.546	5.566	(0.938)	170070	20.0000	20.2425(Q)
	7 bis(2-Chloroethyl)ether	63	5.638	5.648	(0.953)	76805	20.0000	18.7902(QM)
	8 2-Chlorophenol	128	5.679	5.689	(0.960)	146975	20.0000	19.7444(Q)
	9 1,3-Dichlorobenzene	146	5.843	5.852	(0.988)	174054	20.0000	20.3738(Q)
*	10 1,4-Dichlorobenzene-d4	152	5.914	5.924	(1.000)	241957	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	5.935	5.945	(1.003)	177903	20.0000	20.1280(Q)
	12 Benzyl alcohol	108	6.088	6.118	(1.029)	79698	20.0000	19.8757(Q)
	13 1,2-Dichlorobenzene	146	6.109	6.108	(1.033)	160252	20.0000	19.8031(Q)
	14 2-Methylphenol	107	6.221	6.241	(1.052)	98182	20.0000	19.8397(Q)
	15 bis(2-Chloroisopropyl) ether	45	6.242	6.262	(1.055)	183360	20.0000	18.7755(Q)
	16 4-Methylphenol	107	6.405	6.435	(1.083)	145794	20.0000	19.6544(Q)
	17 N-Nitroso-di-n-propylamine	70	6.405	6.456	(1.083)	70894	20.0000	18.6130(Q)
	18 Hexachloroethane	117	6.477	6.487	(1.095)	80107	20.0000	20.2121(Q)
$	19 Nitrobenzene-d5	82	6.559	6.589	(0.888)	148602	20.0000	20.5286(Q)
	20 Nitrobenzene	77	6.579	6.609	(0.891)	137259	20.0000	20.6180(Q)

10/5/07

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ406.D
Report Date: 05-Oct-2004 08:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.865	6.896	(0.929)	254646	20.0000	20.0438
	22 2-Nitrophenol	139	6.958	6.967	(0.942)	86850	20.0000	19.5930(Q)
	23 2,4-Dimethylphenol	122	7.019	7.049	(0.950)	108876	20.0000	20.2162(Q)
	24 bis(2-Chloroethoxy)methane	93	7.131	7.151	(0.965)	148615	20.0000	20.1465(Q)
	26 2,4-Dichlorophenol	162	7.234	7.254	(0.979)	134778	20.0000	19.4792(Q)
	25 Benzoic acid	122	7.183	7.315	(0.972)	47369	20.0000	19.1380(Q)
	27 1,2,4-Trichlorobenzene	180	7.326	7.346	(0.992)	162119	20.0000	19.8117(Q)
*	28 Naphthalene-d8	136	7.387	7.407	(1.000)	765257	40.0000	
	29 Naphthalene	128	7.408	7.428	(1.003)	399297	20.0000	19.3571
	30 4-Chloroaniline	127	7.500	7.520	(1.015)	168971	20.0000	20.3128(Q)
	31 Hexachlorobutadiene	225	7.561	7.571	(1.024)	115730	20.0000	19.8254(Q)
	32 4-Chloro-3-methylphenol	107	8.083	8.103	(1.094)	134169	20.0000	20.4104(Q)
	33 2-Methylnaphthalene	142	8.236	8.256	(1.115)	289418	20.0000	19.3342(Q)
	34 Hexachlorocyclopentadiene	237	8.430	8.439	(0.888)	63309	20.0000	20.2940(Q)
	35 2,4,6-Trichlorophenol	196	8.594	8.603	(0.905)	107255	20.0000	18.2913(Q)
	36 2,4,5-Trichlorophenol	196	8.625	8.645	(0.908)	121096	20.0000	20.5480(Q)
$	37 2-Fluorobiphenyl	172	8.686	8.706	(0.915)	339695	20.0000	19.3846(Q)
	38 2-Chloronaphthalene	162	8.819	8.839	(0.929)	279122	20.0000	19.7363(Q)
	39 2-Nitroaniline	65	8.962	8.992	(0.944)	80587	20.0000	19.5399(aQ)
	40 Dimethylphthalate	163	9.197	9.228	(0.969)	400977	20.0000	20.3885
	41 2,6-Dinitrotoluene	165	9.279	9.309	(0.977)	87347	20.0000	18.8896(Q)
	42 Acenaphthylene	152	9.320	9.340	(0.982)	445992	20.0000	19.4861
	43 3-Nitroaniline	138	9.474	9.504	(0.998)	65139	20.0000	18.1286(aQ)
*	44 Acenaphthene-d10	164	9.494	9.504	(1.000)	498038	40.0000	(Q)
	45 Acenaphthene	154	9.535	9.555	(1.004)	260218	20.0000	19.5773(Q)
	46 2,4-Dinitrophenol	184	9.606	9.637	(1.012)	47379	20.0000	20.1030(aQ)
	47 4-Nitrophenol	109	9.699	9.739	(1.022)	52959	20.0000	18.8408(aQH)
	48 Dibenzofuran	168	9.739	9.759	(1.026)	403808	20.0000	19.3098(Q)
	51 2,4-Dinitrotoluene	165	9.760	9.790	(1.028)	117286	20.0000	19.9163(Q)
	49 Diethylphthalate	149	10.046	10.087	(1.058)	414216	20.0000	20.4170
	52 Fluorene	166	10.149	10.179	(1.069)	315941	20.0000	18.8153(Q)
	50 4-Chlorophenyl-phenylether	204	10.159	10.179	(1.070)	185957	20.0000	18.3538(Q)
	53 4-Nitroaniline	138	10.210	10.281	(1.075)	51867	20.0000	17.6869(aQ)
	54 4,6-Dinitro-2-methylphenol	198	10.251	10.301	(0.908)	67315	20.0000	18.6764(aQ)
	55 N-Nitrosodiphenylamine	169	10.312	10.353	(0.914)	218943	20.0000	19.4157(Q)
	56 Azobenzene	77	10.353	10.373	(0.918)	305873	20.0000	19.4410(Q)
$	57 2,4,6-Tribromophenol	330	10.445	10.475	(1.100)	65251	20.0000	18.2786(Q)
	58 4-Bromophenyl-phenylether	248	10.752	10.772	(0.953)	109036	20.0000	19.1539(Q)
	59 Hexachlorobenzene	284	10.824	10.844	(0.959)	128308	20.0000	19.2724(Q)
	60 Pentachlorophenol	266	11.069	11.089	(0.981)	76806	20.0000	18.7130(aQ)
*	61 Phenanthrene-d10	188	11.284	11.304	(1.000)	843259	40.0000	
	62 Phenanthrene	178	11.314	11.334	(1.003)	449345	20.0000	19.5744
	63 Anthracene	178	11.376	11.396	(1.008)	452573	20.0000	19.9398
	64 Carbazole	167	11.580	11.600	(1.026)	308023	20.0000	19.0946
	65 Di-n-butylphthalate	149	12.020	12.040	(1.065)	719041	20.0000	20.9648
	66 Fluoranthene	202	12.746	12.766	(1.130)	516371	20.0000	19.6971
	68 Pyrene	202	13.012	13.043	(0.898)	530821	20.0000	19.5276
	67 Benzidine	184	12.930	12.950	(0.893)	65341	20.0000	27.2366
$	69 Terphenyl-d14	244	13.227	13.247	(0.913)	407081	20.0000	19.4752
	70 Butylbenzylphthalate	149	13.830	13.850	(0.955)	304536	20.0000	20.3262(Q)
	71 3,3'-Dichlorobenzidine	252	14.454	14.485	(0.998)	132196	20.0000	16.8096(Q)
	72 Benzo(a)anthracene	228	14.465	14.485	(0.999)	473050	20.0000	19.5707
*	73 Chrysene-d12	240	14.485	14.505	(1.000)	766899	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.526	14.546	(1.003)	429127	20.0000	19.4577(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ406.D
Report Date: 05-Oct-2004 08:57

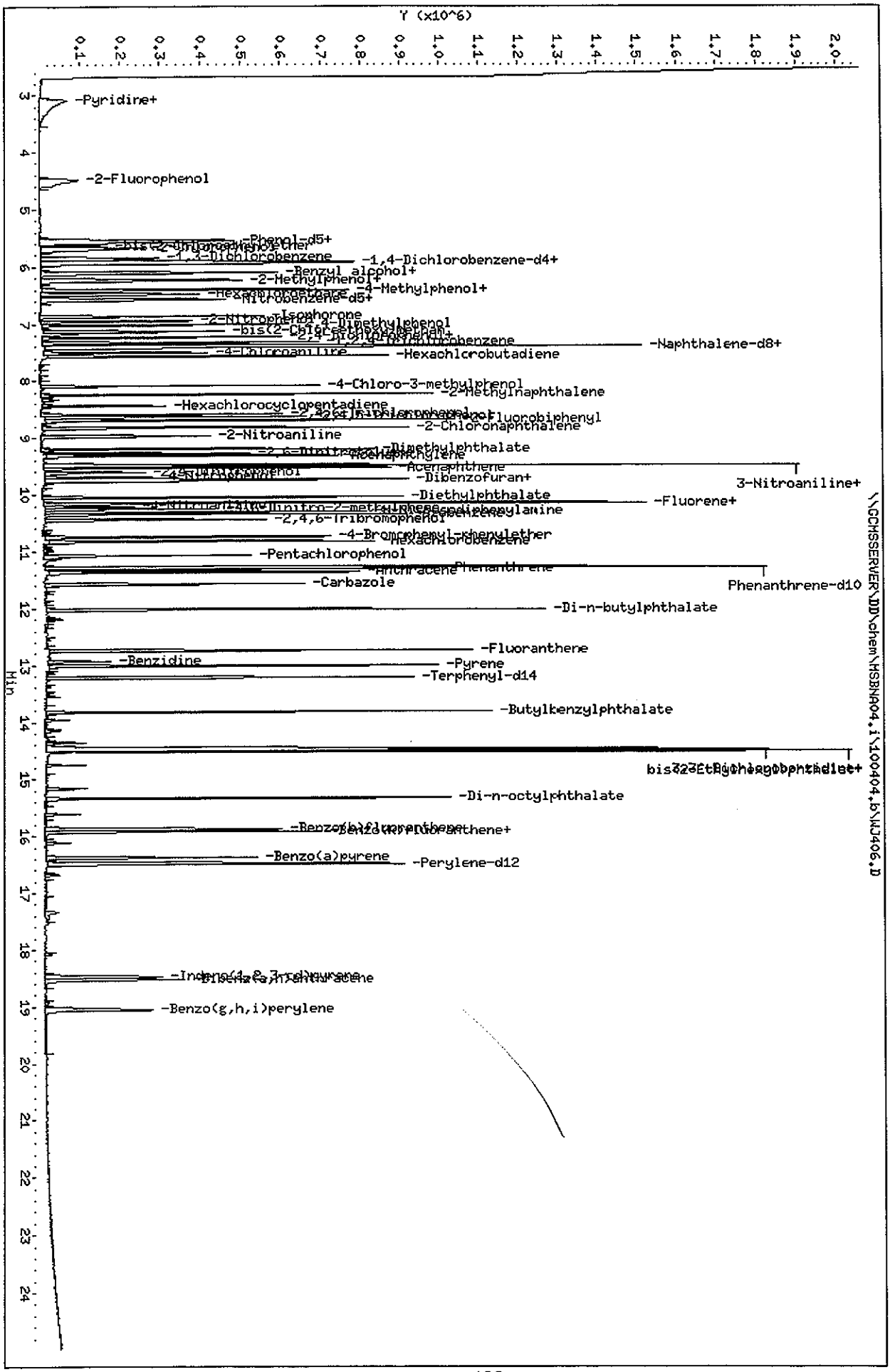
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Chrysene	228	14.516	14.546	(1.002)	441291	20.0000	19.2962
76 Di-n-octylphthalate	149	15.334	15.364	(0.930)	681138	20.0000	17.6916
77 Benzo(b)fluoranthene	252	15.876	15.927	(0.963)	462196	20.0000	20.0680(M)
78 Benzo(k)fluoranthene	252	15.917	15.957	(0.965)	424041	20.0000	19.7246(A)
79 Benzo(a)pyrene	252	16.377	16.418	(0.993)	379059	20.0000	19.4227
* 80 Perylene-d12	264	16.490	16.510	(1.000)	620966	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.484	18.535	(1.121)	393778	20.0000	20.8875
82 Dibenz(a,h)anthracene	278	18.525	18.596	(1.123)	312571	20.0000	20.4493
83 Benzo(g,h,i)perylene	276	19.057	19.138	(1.156)	312811	20.0000	21.1157

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ406.D
Date : 04-OCT-2004 12:53
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1858
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ407.D
Report Date: 05-Oct-2004 08:57

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ407.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 13:29 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1859
Misc Info : 50ug/ml ICAL STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:57 target Quant Type: ISTD
Cal Date : 04-OCT-2004 13:29 Cal File: WJ407.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	3.077	3.081	(0.520)	137456	50.0000	50.1268(Q)
2 Pyridine	79	3.067	3.071	(0.518)	243205	50.0000	51.4000(Q)
$ 3 2-Fluorophenol	112	4.478	4.482	(0.756)	343098	50.0000	51.2987(Q)
$ 4 Phenol-d5	99	5.532	5.556	(0.934)	366699	50.0000	50.1902(Q)
5 Phenol	94	5.552	5.566	(0.938)	381611	50.0000	48.1531(Q)
6 Aniline	66	5.552	5.566	(0.938)	434575	50.0000	50.4303(Q)
7 bis(2-Chloroethyl)ether	63	5.644	5.648	(0.953)	259416	50.0000	48.7536(QM)
8 2-Chlorophenol	128	5.685	5.689	(0.960)	389254	50.0000	50.9826(Q)
9 1,3-Dichlorobenzene	146	5.849	5.852	(0.988)	442719	50.0000	50.5250(Q)
* 10 1,4-Dichlorobenzene-d4	152	5.920	5.924	(1.000)	248170	40.0000	(Q)
11 1,4-Dichlorobenzene	146	5.931	5.945	(1.002)	456704	50.0000	50.3780(Q)
12 Benzyl alcohol	108	6.105	6.118	(1.031)	197692	50.0000	48.0676(Q)
13 1,2-Dichlorobenzene	146	6.105	6.108	(1.031)	405333	50.0000	48.8349(Q)
14 2-Methylphenol	107	6.227	6.241	(1.052)	247369	50.0000	48.7346(Q)
15 bis(2-Chloroisopropyl) ether	45	6.248	6.262	(1.055)	482871	50.0000	48.2067(Q)
16 4-Methylphenol	107	6.422	6.435	(1.085)	370295	50.0000	48.6696(Q)
17 N-Nitroso-di-n-propylamine	70	6.422	6.456	(1.085)	192582	50.0000	49.2961(QH)
18 Hexachloroethane	117	6.483	6.487	(1.095)	201873	50.0000	49.6603(Q)
$ 19 Nitrobenzene-d5	82	6.575	6.589	(0.889)	384107	50.0000	50.0801(Q)
20 Nitrobenzene	77	6.595	6.609	(0.892)	354027	50.0000	50.1903(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ407.D
Report Date: 05-Oct-2004 08:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.882	6.896	(0.931)	661950	50.0000	49.1754
	22 2-Nitrophenol	139	6.964	6.967	(0.942)	224736	50.0000	47.8500(Q)
	23 2,4-Dimethylphenol	122	7.035	7.049	(0.952)	281305	50.0000	49.2973(Q)
	24 bis(2-Chloroethoxy)methane	93	7.137	7.151	(0.965)	377342	50.0000	48.2782(Q)
	26 2,4-Dichlorophenol	162	7.250	7.254	(0.981)	358799	50.0000	48.9419(Q)
	25 Benzoic acid	122	7.260	7.315	(0.982)	170685	50.0000	48.0210(Q)
	27 1,2,4-Trichlorobenzene	180	7.332	7.346	(0.992)	431349	50.0000	49.7501(Q)
*	28 Naphthalene-d8	136	7.393	7.407	(1.000)	810830	40.0000	
	29 Naphthalene	128	7.424	7.428	(1.004)	1057138	50.0000	48.3675
	30 4-Chloroaniline	127	7.506	7.520	(1.015)	432849	50.0000	49.1102(Q)
	31 Hexachlorobutadiene	225	7.567	7.571	(1.024)	311238	50.0000	50.3206(Q)
	32 4-Chloro-3-methylphenol	107	8.089	8.103	(1.094)	341936	50.0000	49.0934(Q)
	33 2-Methylnaphthalene	142	8.242	8.256	(1.115)	762945	50.0000	48.1029(Q)
	34 Hexachlorocyclopentadiene	237	8.426	8.439	(0.887)	210628	50.0000	51.2406(Q)
	35 2,4,6-Trichlorophenol	196	8.600	8.603	(0.905)	320365	50.0000	50.0625(Q)
	36 2,4,5-Trichlorophenol	196	8.641	8.645	(0.910)	295298	50.0000	45.9135(Q)
$	37 2-Fluorobiphenyl	172	8.692	8.706	(0.915)	921557	50.0000	48.1871(Q)
	38 2-Chloronaphthalene	162	8.825	8.839	(0.929)	739391	50.0000	47.9056(Q)
	39 2-Nitroaniline	65	8.978	8.992	(0.945)	218629	50.0000	48.5742(Q)
	40 Dimethylphthalate	163	9.214	9.228	(0.970)	1041406	50.0000	48.5205
	41 2,6-Dinitrotoluene	165	9.296	9.309	(0.978)	244611	50.0000	48.4720(Q)
	42 Acenaphthylene	152	9.326	9.340	(0.982)	1196020	50.0000	47.8824
	43 3-Nitroaniline	138	9.490	9.504	(0.999)	187983	50.0000	47.9383(Q)
*	44 Acenaphthene-d10	164	9.500	9.504	(1.000)	543529	40.0000	(Q)
	45 Acenaphthene	154	9.541	9.555	(1.004)	693534	50.0000	47.8105(Q)
	46 2,4-Dinitrophenol	184	9.623	9.637	(1.013)	154635	50.0000	49.1599(Q)
	47 4-Nitrophenol	109	9.715	9.739	(1.023)	155770	50.0000	50.7789(Q)
	48 Dibenzofuran	168	9.746	9.759	(1.026)	1044902	50.0000	45.7846(Q)
	51 2,4-Dinitrotoluene	165	9.776	9.790	(1.029)	308558	50.0000	48.0109(Q)
	49 Diethylphthalate	149	10.063	10.087	(1.059)	1087133	50.0000	49.1008
	52 Fluorene	166	10.165	10.179	(1.070)	916809	50.0000	50.0294(Q)
	50 4-Chlorophenyl-phenylether	204	10.165	10.179	(1.070)	569925	50.0000	51.5432(Q)
	53 4-Nitroaniline	138	10.247	10.281	(1.079)	149090	50.0000	46.5853(Q)
	54 4,6-Dinitro-2-methylphenol	198	10.277	10.301	(0.910)	193235	50.0000	48.7163(Q)
	55 N-Nitrosodiphenylamine	169	10.329	10.353	(0.915)	578045	50.0000	46.5793(Q)
	56 Azobenzene	77	10.359	10.373	(0.918)	787870	50.0000	45.5031(Q)
$	57 2,4,6-Tribromophenol	330	10.461	10.475	(1.101)	190470	50.0000	48.8903(Q)
	58 4-Bromophenyl-phenylether	248	10.758	10.772	(0.953)	304916	50.0000	48.6715(Q)
	59 Hexachlorobenzene	284	10.830	10.844	(0.959)	363977	50.0000	49.6781(Q)
	60 Pentachlorophenol	266	11.075	11.089	(0.981)	214208	50.0000	47.4235(Q)
*	61 Phenanthrene-d10	188	11.290	11.304	(1.000)	928011	40.0000	
	62 Phenanthrene	178	11.321	11.334	(1.003)	1201656	50.0000	47.5660
	63 Anthracene	178	11.382	11.396	(1.008)	1217483	50.0000	48.7420
	64 Carbazole	167	11.587	11.600	(1.026)	763422	50.0000	43.0032
	65 Di-n-butylphthalate	149	12.026	12.040	(1.065)	1884064	50.0000	49.9160
	66 Fluoranthene	202	12.752	12.766	(1.130)	1441123	50.0000	49.9515
	68 Pyrene	202	13.029	13.043	(0.898)	1402542	50.0000	48.5943
	67 Benzidine	184	12.937	12.950	(0.892)	115475	50.0000	45.3338
$	69 Terphenyl-d14	244	13.233	13.247	(0.913)	1118941	50.0000	50.4167
	70 Butylbenzylphthalate	149	13.837	13.850	(0.954)	749387	50.0000	47.1077(Q)
	71 3,3'-Dichlorobenzidine	252	14.471	14.485	(0.998)	417999	50.0000	50.0590(Q)
	72 Benzo(a)anthracene	228	14.481	14.485	(0.999)	1304839	50.0000	50.8422
*	73 Chrysene-d12	240	14.501	14.505	(1.000)	814276	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.532	14.546	(1.002)	1141520	50.0000	48.7481(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ407.D
Report Date: 05-Oct-2004 08:57

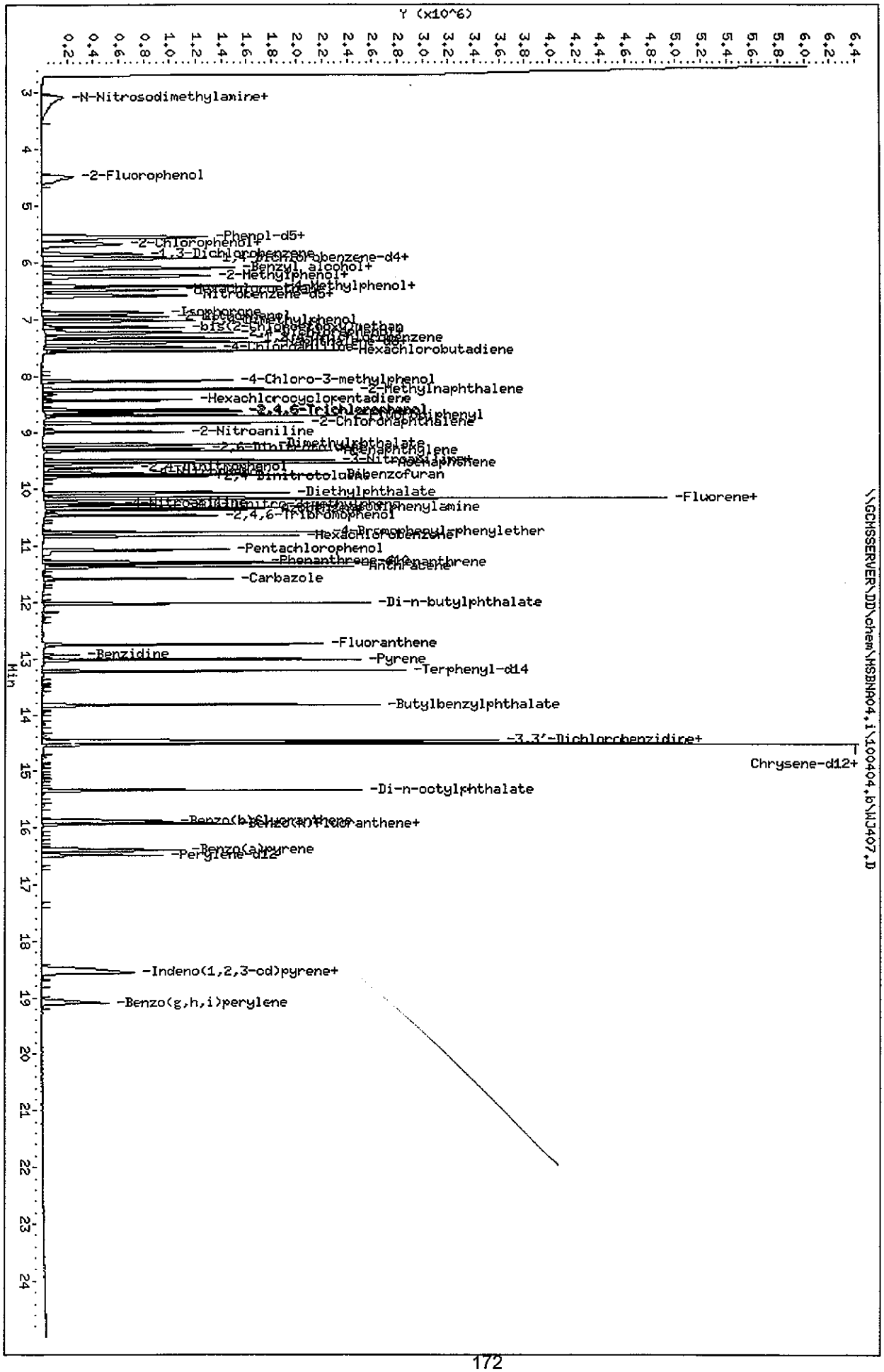
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Chrysene	228	14.532	14.546	(1.002)	1292004	50.0000	53.2081
76 Di-n-octylphthalate	149	15.350	15.364	(0.931)	1676729	50.0000	46.5825
77 Benzo(b)fluoranthene	252	15.892	15.927	(0.963)	1116091	50.0000	45.7399(M)
78 Benzo(k)fluoranthene	252	15.943	15.957	(0.967)	1131292	50.0000	56.2864(A)
79 Benzo(a)pyrene	252	16.404	16.418	(0.994)	909844	50.0000	49.8652
* 80 Perylene-d12	264	16.496	16.510	(1.000)	580551	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.511	18.535	(1.122)	899929	50.0000	51.0588
82 Dibenz(a,h)anthracene	278	18.572	18.596	(1.126)	728198	50.0000	50.9574
83 Benzo(g,h,i)perylene	276	19.104	19.138	(1.158)	716767	50.0000	51.7522

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ407.D
Date : 04-OCT-2004 13:29
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1889
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ409.D
Report Date: 05-Oct-2004 08:58

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ409.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 14:38 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1861
Misc Info : 120ug/ml ICAL STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:58 target Quant Type: ISTD
Cal Date : 04-OCT-2004 14:38 Cal File: WJ409.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	3.098	3.081	(0.522)	405077	120.000	121.0774(Q)
	2 Pyridine	79	3.078	3.071	(0.519)	699491	120.000	121.1691(QM)
$	3 2-Fluorophenol	112	4.489	4.482	(0.757)	961935	120.000	117.8835(Q)
$	4 Phenol-d5	99	5.583	5.556	(0.941)	1067618	120.000	119.7690(Q)
	5 Phenol	94	5.594	5.566	(0.943)	1143493	120.000	118.2651(Q)
	6 Aniline	66	5.594	5.566	(0.943)	1255684	120.000	119.4336(Q)
	7 bis(2-Chloroethyl)ether	63	5.675	5.648	(0.957)	899154	120.000	121.7687(QM)
	8 2-Chlorophenol	128	5.716	5.689	(0.964)	1110320	120.000	119.1947(Q)
	9 1,3-Dichlorobenzene	146	5.860	5.852	(0.988)	1238299	120.000	115.8307(Q)
*	10 1,4-Dichlorobenzene-d4	152	5.931	5.924	(1.000)	302782	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	5.941	5.945	(1.002)	1298893	120.000	117.4354(Q)
	12 Benzyl alcohol	108	6.146	6.118	(1.036)	614737	120.000	122.5103(Q)
	13 1,2-Dichlorobenzene	146	6.115	6.108	(1.031)	1204494	120.000	118.9440(Q)
	14 2-Methylphenol	107	6.258	6.241	(1.055)	741473	120.000	119.7311(Q)
	15 bis(2-Chloroisopropyl) ether	45	6.269	6.262	(1.057)	1546631	120.000	126.5558(Q)
	16 4-Methylphenol	107	6.463	6.435	(1.090)	1123962	120.000	121.0824(M)
	17 N-Nitroso-di-n-propylamine	70	6.494	6.456	(1.095)	623180	120.000	130.7465(Q)
	18 Hexachloroethane	117	6.494	6.487	(1.095)	605796	120.000	122.1455(Q)
$	19 Nitrobenzene-d5	82	6.606	6.589	(0.891)	1104049	120.000	117.4232(Q)
	20 Nitrobenzene	77	6.627	6.609	(0.894)	1036638	120.000	119.8844(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ409.D
Report Date: 05-Oct-2004 08:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.974	6.896	(0.941)	1975161	120.000	119.6954(M)
	22 2-Nitrophenol	139	6.974	6.967	(0.941)	714445	120.000	124.0882(Q)
	23 2,4-Dimethylphenol	122	7.077	7.049	(0.954)	823280	120.000	117.6916(Q)
	24 bis(2-Chloroethoxy)methane	93	7.169	7.151	(0.967)	1141849	120.000	119.1727(Q)
	26 2,4-Dichlorophenol	162	7.281	7.254	(0.982)	1119909	120.000	124.6134(Q)
	25 Benzoic acid	122	7.404	7.315	(0.999)	616913	120.000	119.9425(QM)
	27 1,2,4-Trichlorobenzene	180	7.353	7.346	(0.992)	1308667	120.000	123.1252(Q)
*	28 Naphthalene-d8	136	7.414	7.407	(1.000)	993980	40.0000	
	29 Naphthalene	128	7.445	7.428	(1.004)	3344312	120.000	124.8192
	30 4-Chloroaniline	127	7.527	7.520	(1.015)	1290697	120.000	119.4571(Q)
	31 Hexachlorobutadiene	225	7.578	7.571	(1.022)	928518	120.000	122.4605(Q)
	32 4-Chloro-3-methylphenol	107	8.120	8.103	(1.095)	1040952	120.000	121.9162(Q)
	33 2-Methylnaphthalene	142	8.263	8.256	(1.114)	2430809	120.000	125.0206(Q)
	34 Hexachlorocyclopentadiene	237	8.437	8.439	(0.887)	697849	120.000	124.9384(Q)
	35 2,4,6-Trichlorophenol	196	8.621	8.603	(0.906)	982481	120.000	130.1057(Q)
	36 2,4,5-Trichlorophenol	196	8.662	8.645	(0.911)	925296	120.000	121.9174(Q)
$	37 2-Fluorobiphenyl	172	8.713	8.706	(0.916)	2791702	120.000	123.7037(Q)
	38 2-Chloronaphthalene	162	8.846	8.839	(0.930)	2239809	120.000	122.9781(Q)
	39 2-Nitroaniline	65	9.010	8.992	(0.947)	643886	120.000	121.2305(Q)
	40 Dimethylphthalate	163	9.245	9.228	(0.972)	2986909	120.000	117.9321
	41 2,6-Dinitrotoluene	165	9.327	9.309	(0.981)	714084	120.000	119.9138(Q)
	42 Acenaphthylene	152	9.347	9.340	(0.983)	3638607	120.000	123.4461
	43 3-Nitroaniline	138	9.531	9.504	(1.002)	580225	120.000	125.3908(Q)
*	44 Acenaphthene-d10	164	9.511	9.504	(1.000)	641384	40.0000	(Q)
	45 Acenaphthene	154	9.562	9.555	(1.005)	2111125	120.000	123.3316(Q)
	46 2,4-Dinitrophenol	184	9.654	9.637	(1.015)	509552	120.000	123.8767(Q)
	47 4-Nitrophenol	109	9.766	9.739	(1.027)	454777	120.000	125.6327(Q)
	48 Dibenzofuran	168	9.777	9.759	(1.028)	3521752	120.000	130.7698(Q)
	51 2,4-Dinitrotoluene	165	9.818	9.790	(1.032)	902403	120.000	118.9894(Q)
	49 Diethylphthalate	149	10.114	10.087	(1.063)	3194047	120.000	122.2510
	52 Fluorene	166	10.186	10.179	(1.071)	2681701	120.000	124.0114(Q)
	50 4-Chlorophenyl-phenylether	204	10.186	10.179	(1.071)	1699727	120.000	130.2680(Q)
	53 4-Nitroaniline	138	10.329	10.281	(1.086)	506793	120.000	134.1949(Q)
	54 4,6-Dinitro-2-methylphenol	198	10.339	10.301	(0.914)	616355	120.000	131.3542(Q)
	55 N-Nitrosodiphenylamine	169	10.370	10.353	(0.917)	1835257	120.000	125.0122(Q)
	56 Azobenzene	77	10.390	10.373	(0.919)	2619561	120.000	127.8907(Q)
$	57 2,4,6-Tribromophenol	330	10.493	10.475	(1.103)	608099	120.000	132.2742(Q)
	58 4-Bromophenyl-phenylether	248	10.779	10.772	(0.953)	934994	120.000	126.1618(Q)
	59 Hexachlorobenzene	284	10.861	10.844	(0.960)	1058190	120.000	122.0897(Q)
	60 Pentachlorophenol	266	11.096	11.089	(0.981)	712550	120.000	133.3513(Q)
*	61 Phenanthrene-d10	188	11.311	11.304	(1.000)	1097815	40.0000	
	62 Phenanthrene	178	11.352	11.334	(1.004)	3910283	120.000	130.8426
	63 Anthracene	178	11.413	11.396	(1.009)	3704208	120.000	125.3604
	64 Carbazole	167	11.618	11.600	(1.027)	2773627	120.000	132.0714
	65 Di-n-butylphthalate	149	12.047	12.040	(1.065)	5109384	120.000	114.4293
	66 Fluoranthene	202	12.784	12.766	(1.130)	4301680	120.000	126.0405
	68 Pyrene	202	13.050	13.043	(0.899)	4385241	120.000	122.6240
	67 Benzidine	184	12.947	12.950	(0.892)	286948	120.000	90.9180
$	69 Terphenyl-d14	244	13.254	13.247	(0.913)	3284997	120.000	119.4580
	70 Butylbenzylphthalate	149	13.858	13.850	(0.954)	2285550	120.000	115.9549(Q)
	71 3,3'-Dichlorobenzidine	252	14.502	14.485	(0.999)	1376562	120.000	133.0503(Q)
	72 Benzo(a)anthracene	228	14.492	14.485	(0.998)	3703736	120.000	116.4717
*	73 Chrysene-d12	240	14.522	14.505	(1.000)	1008925	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.543	14.546	(1.001)	3396923	120.000	117.0773(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ409.D
Report Date: 05-Oct-2004 08:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Chrysene	228	14.563	14.546	(1.003)	3409562	120.000	113.3249
76 Di-n-octylphthalate	149	15.371	15.364	(0.931)	4954313	120.000	132.2064
77 Benzo(b)fluoranthene	252	15.954	15.927	(0.966)	3982929	120.000	125.6651
78 Benzo(k)fluoranthene	252	15.985	15.957	(0.968)	2302508	120.000	110.0370(AH)
79 Benzo(a)pyrene	252	16.445	16.418	(0.996)	2363047	120.000	124.3975
* 80 Perylene-d12	264	16.517	16.510	(1.000)	604410	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.593	18.535	(1.126)	2174770	120.000	118.5181
82 Dibenz(a,h)anthracene	278	18.634	18.596	(1.128)	1772318	120.000	119.1265
83 Benzo(g,h,i)perylene	276	19.166	19.138	(1.160)	1632905	120.000	113.2455

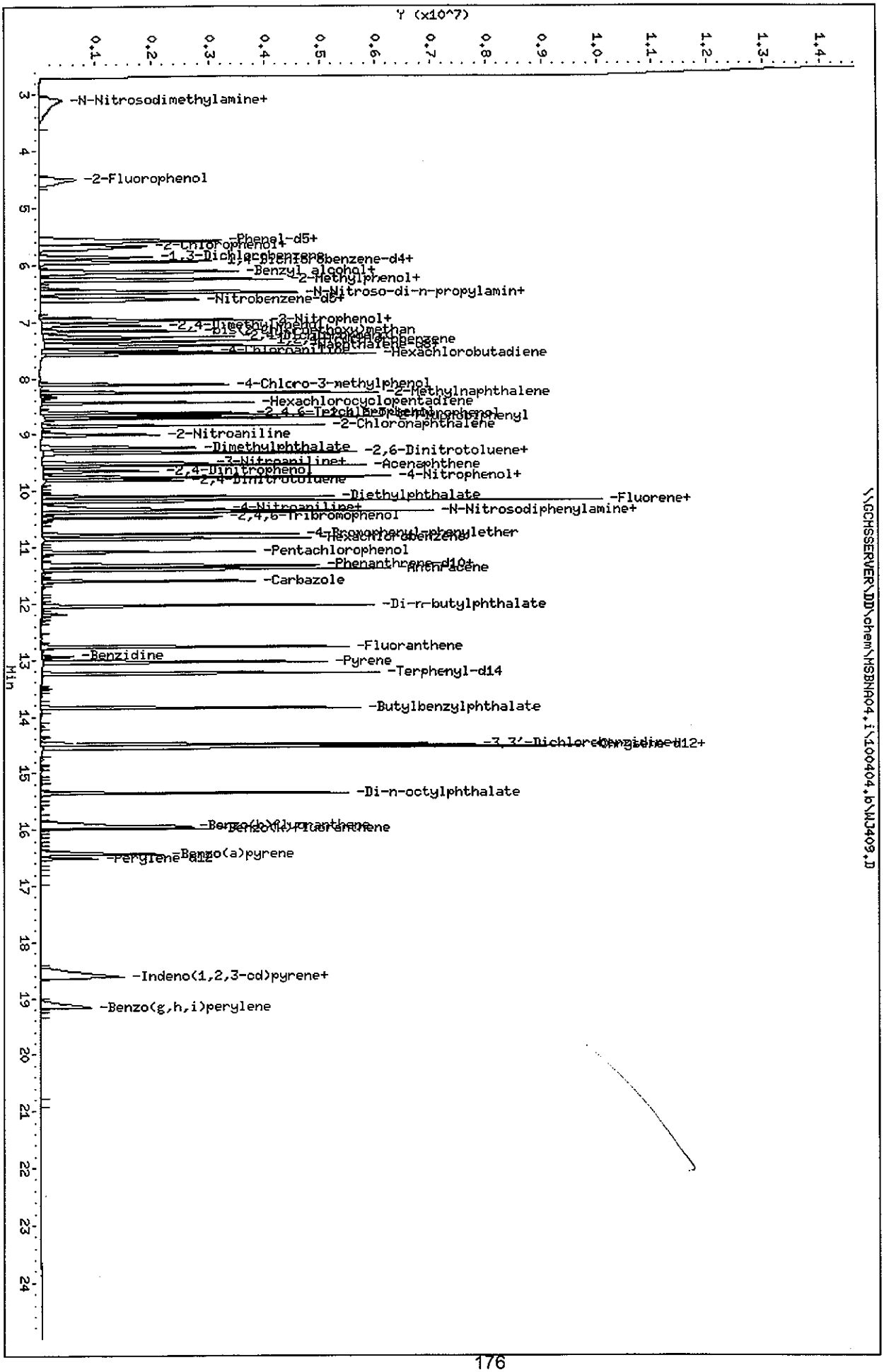
10/5/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ409.D
Date : 04-OCT-2004 14:38
Client ID: CURTIS&TOWPKINS
Sample Info: ICAL,04WS1861
Volume Injected (uL): 1.0
Column phase: Mti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ410.D
Report Date: 05-Oct-2004 08:58

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ410.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 15:14 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1862
Misc Info : 160ug/ml ICAL STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:58 target Quant Type: ISTD
Cal Date : 04-OCT-2004 15:14 Cal File: WJ410.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	3.092	3.081	(0.522)	478011	160.000	159.5405
	2 Pyridine	79	3.081	3.071	(0.520)	843858	160.000	163.2251(M)
$	3 2-Fluorophenol	112	4.493	4.482	(0.758)	1135500	160.000	155.3825
$	4 Phenol-d5	99	5.587	5.556	(0.943)	1257894	160.000	157.5724
	5 Phenol	94	5.608	5.566	(0.946)	1349518	160.000	155.8509
	6 Aniline	66	5.597	5.566	(0.945)	1465551	160.000	155.6520
	7 bis(2-Chloroethyl)ether	63	5.679	5.648	(0.959)	1101457	160.000	159.2147(M)
	8 2-Chlorophenol	128	5.720	5.689	(0.965)	1307923	160.000	156.7829
	9 1,3-Dichlorobenzene	146	5.863	5.852	(0.990)	1476928	160.000	154.2641
*	10 1,4-Dichlorobenzene-d4	152	5.925	5.924	(1.000)	271158	40.0000	
	11 1,4-Dichlorobenzene	146	5.945	5.945	(1.003)	1531241	160.000	154.5884
	12 Benzyl alcohol	108	6.160	6.118	(1.040)	729275	160.000	162.2864
	13 1,2-Dichlorobenzene	146	6.119	6.108	(1.033)	1435444	160.000	158.2821
	14 2-Methylphenol	107	6.262	6.241	(1.057)	878724	160.000	158.4426
	15 bis(2-Chloroisopropyl) ether	45	6.272	6.262	(1.059)	1887971	160.000	172.5037
	16 4-Methylphenol	107	6.477	6.435	(1.093)	1381875	160.000	166.2286(M)
	17 N-Nitroso-di-n-propylamine	70	6.497	6.456	(1.097)	709342	160.000	166.1804
	18 Hexachloroethane	117	6.487	6.487	(1.095)	715864	160.000	161.1718
$	19 Nitrobenzene-d5	82	6.610	6.589	(0.891)	1318193	160.000	155.7147
	20 Nitrobenzene	77	6.630	6.609	(0.894)	1195724	160.000	153.5860

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ410.D
Report Date: 05-Oct-2004 08:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.978	6.896	(0.941)	2313295	160.000	155.7009(M)
	22 2-Nitrophenol	139	6.978	6.967	(0.941)	866657	160.000	167.1837
	23 2,4-Dimethylphenol	122	7.080	7.049	(0.955)	953792	160.000	151.4386
	24 bis(2-Chloroethoxy)methane	93	7.172	7.151	(0.967)	1335708	160.000	154.8335
	26 2,4-Dichlorophenol	162	7.285	7.254	(0.982)	1300349	160.000	160.7041
	25 Benzoic acid	122	7.438	7.315	(1.003)	789500	160.000	159.8310(M)
	27 1,2,4-Trichlorobenzene	180	7.357	7.346	(0.992)	1545201	160.000	161.4685
*	28 Naphthalene-d8	136	7.418	7.407	(1.000)	894937	40.0000	
	29 Naphthalene	128	7.449	7.428	(1.004)	4082246	160.000	169.2228
	30 4-Chloroaniline	127	7.541	7.520	(1.017)	1556597	160.000	160.0107
	31 Hexachlorobutadiene	225	7.582	7.571	(1.022)	1052893	160.000	154.2323
	32 4-Chloro-3-methylphenol	107	8.124	8.103	(1.095)	1224932	160.000	159.3412
	33 2-Methylnaphthalene	142	8.267	8.256	(1.114)	2893993	160.000	165.3154
	34 Hexachlorocyclopentadiene	237	8.441	8.439	(0.888)	830092	160.000	157.9987
	35 2,4,6-Trichlorophenol	196	8.625	8.603	(0.907)	1151466	160.000	171.4446
	36 2,4,5-Trichlorophenol	196	8.666	8.645	(0.912)	1151556	160.000	170.5968
$	37 2-Fluorobiphenyl	172	8.717	8.706	(0.917)	3316347	160.000	165.2244
	38 2-Chloronaphthalene	162	8.850	8.839	(0.931)	2676087	160.000	165.2029
	39 2-Nitroaniline	65	9.024	8.992	(0.949)	769512	160.000	162.8991
	40 Dimethylphthalate	163	9.238	9.228	(0.972)	3548992	160.000	157.5491
	41 2,6-Dinitrotoluene	165	9.341	9.309	(0.983)	971636	160.000	183.4527
	42 Acenaphthylene	152	9.351	9.340	(0.984)	4334010	160.000	165.3228
	43 3-Nitroaniline	138	9.535	9.504	(1.003)	702754	160.000	170.7549
*	44 Acenaphthene-d10	164	9.504	9.504	(1.000)	570450	40.0000	
	45 Acenaphthene	154	9.566	9.555	(1.006)	2584189	160.000	169.7405
	46 2,4-Dinitrophenol	184	9.668	9.637	(1.017)	594401	160.000	158.2876
	47 4-Nitrophenol	109	9.770	9.739	(1.028)	524730	160.000	162.9824
	48 Dibenzofuran	168	9.780	9.759	(1.029)	4122896	160.000	172.1281
	51 2,4-Dinitrotoluene	165	9.832	9.790	(1.034)	1143894	160.000	169.5876
	49 Diethylphthalate	149	10.118	10.087	(1.065)	3610444	160.000	155.3718
	52 Fluorene	166	10.190	10.179	(1.072)	3242414	160.000	168.5856
	50 4-Chlorophenyl-phenylether	204	10.200	10.179	(1.073)	1871704	160.000	161.2858
	53 4-Nitroaniline	138	10.343	10.281	(1.088)	603819	160.000	179.7682(M)
	54 4,6-Dinitro-2-methylphenol	198	10.353	10.301	(0.915)	792966	160.000	185.3386
	55 N-Nitrosodiphenylamine	169	10.374	10.353	(0.917)	2290135	160.000	171.0861
	56 Azobenzene	77	10.394	10.373	(0.919)	3235665	160.000	173.2495
$	57 2,4,6-Tribromophenol	330	10.496	10.475	(1.104)	691501	160.000	169.1197
	58 4-Bromophenyl-phenylether	248	10.783	10.772	(0.953)	1138210	160.000	168.4378
	59 Hexachlorobenzene	284	10.865	10.844	(0.960)	1264433	160.000	159.9961
	60 Pentachlorophenol	266	11.100	11.089	(0.981)	878282	160.000	180.2662
*	61 Phenanthrene-d10	188	11.315	11.304	(1.000)	1000993	40.0000	
	62 Phenanthrene	178	11.356	11.334	(1.004)	4528281	160.000	166.1776
	63 Anthracene	178	11.417	11.396	(1.009)	4254943	160.000	157.9272
	64 Carbazole	167	11.621	11.600	(1.027)	3240884	160.000	169.2475
	65 Di-n-butylphthalate	149	12.051	12.040	(1.065)	6127364	160.000	150.5014
	66 Fluoranthene	202	12.787	12.766	(1.130)	4944914	160.000	158.9019
	68 Pyrene	202	13.064	13.043	(0.899)	5271990	160.000	164.5260
	67 Benzidine	184	12.961	12.950	(0.892)	365873	160.000	129.3764
$	69 Terphenyl-d14	244	13.258	13.247	(0.913)	3749483	160.000	152.1702
	70 Butylbenzylphthalate	149	13.861	13.850	(0.954)	2746000	160.000	155.4809
	71 3,3'-Dichlorobenzidine	252	14.516	14.485	(0.999)	1476848	160.000	159.3067
	72 Benzo(a)anthracene	228	14.506	14.485	(0.999)	4278274	160.000	150.1506
*	73 Chrysene-d12	240	14.526	14.505	(1.000)	904026	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.547	14.546	(1.001)	4073097	160.000	156.6714

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ410.D
Report Date: 05-Oct-2004 08:58

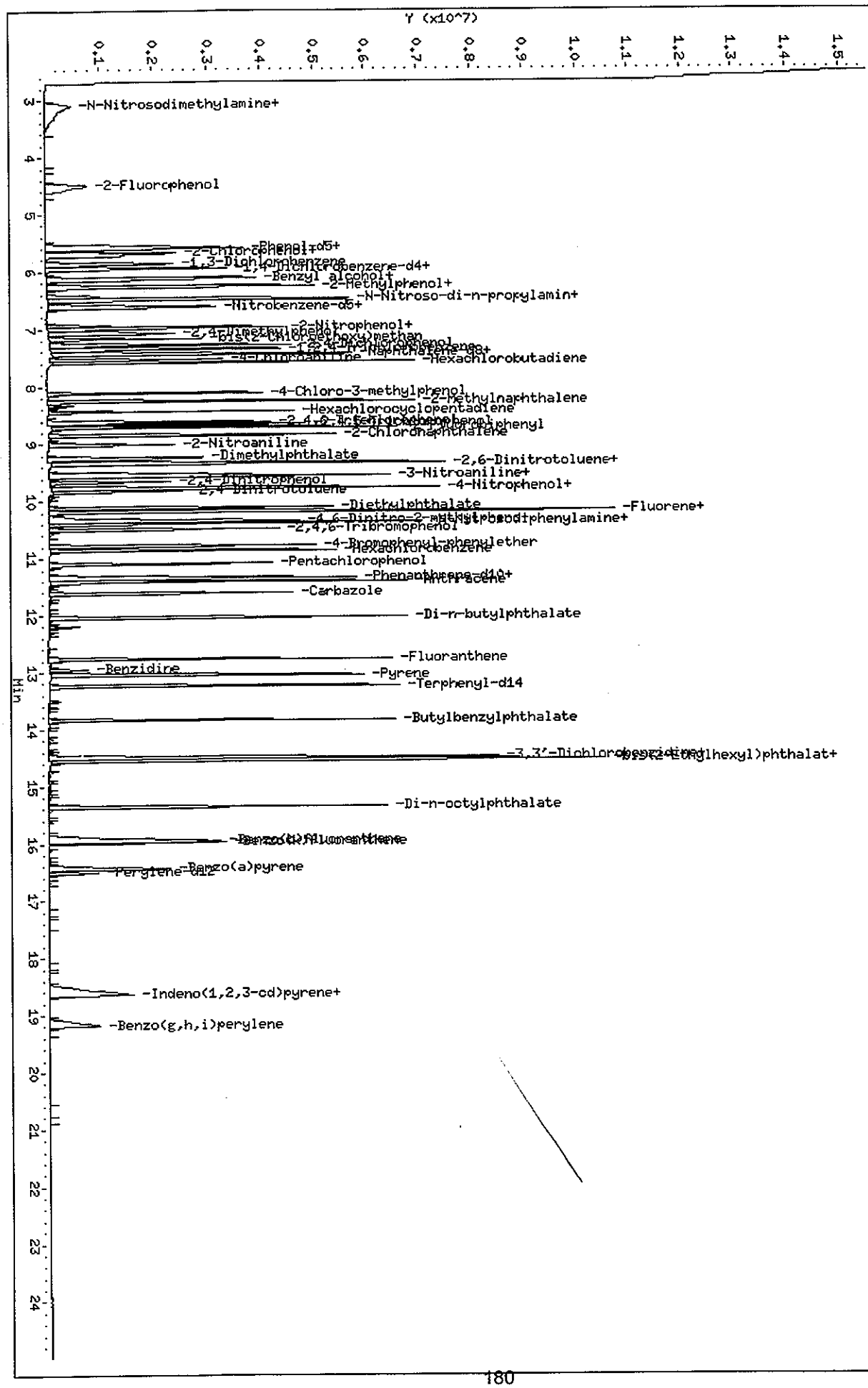
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Chrysene	228	14.567	14.546	(1.003)	4099593	160.000	152.0707
76 Di-n-octylphthalate	149	15.375	15.364	(0.931)	5934431	160.000	178.7357
77 Benzo(b)fluoranthene	252	15.958	15.927	(0.966)	5079730	160.000	157.7752
78 Benzo(k)fluoranthene	252	15.999	15.957	(0.968)	2320646	160.000	125.1727(AH)
79 Benzo(a)pyrene	252	16.459	16.418	(0.996)	2893544	160.000	171.9225
* 80 Perylene-d12	264	16.520	16.510	(1.000)	535511	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.617	18.535	(1.127)	2505937	160.000	154.1362
82 Dibenz(a,h)anthracene	278	18.648	18.596	(1.129)	2036647	160.000	154.5062
83 Benzo(g,h,i)perylene	276	19.180	19.138	(1.161)	1863177	160.000	145.8403

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\CCHSSERVER\DD\chem\MSBNA04.i\100404.b\WJ410.D
Date : 04-OCT-2004 15:14
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1862
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ412.D
Report Date: 05-Oct-2004 08:58

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ412.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 17:46 MS Autotune Date: 15-AUG-2002 15:17
Operator` : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1860
Misc Info : 80ug/ml ICAL STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:58 target Quant Type: ISTD
Cal Date : 04-OCT-2004 17:46 Cal File: WJ412.D
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	3.080	3.080	(0.520)	203651	80.0000	79.9094(M)
	2 Pyridine	79	3.070	3.070	(0.518)	345633	80.0000	78.5979(M)
$	3 2-Fluorophenol	112	4.481	4.481	(0.757)	499128	80.0000	80.2981
$	4 Phenol-d5	99	5.555	5.555	(0.938)	548691	80.0000	80.8058
	5 Phenol	94	5.566	5.566	(0.940)	568001	80.0000	77.1184
	6 Aniline	66	5.566	5.566	(0.940)	627796	80.0000	78.3882
	7 bis(2-Chloroethyl)ether	63	5.647	5.647	(0.953)	422251	80.0000	79.6419(QM)
	8 2-Chlorophenol	128	5.688	5.688	(0.960)	567082	80.0000	79.9172
	9 1,3-Dichlorobenzene	146	5.852	5.852	(0.988)	648799	80.0000	79.6699
*	10 1,4-Dichlorobenzene-d4	152	5.924	5.924	(1.000)	230645	40.0000	
	11 1,4-Dichlorobenzene	146	5.944	5.944	(1.003)	676356	80.0000	80.2762
	12 Benzyl alcohol	108	6.118	6.118	(1.033)	310464	80.0000	81.2232
	13 1,2-Dichlorobenzene	146	6.108	6.108	(1.031)	613205	80.0000	79.4931
	14 2-Methylphenol	107	6.241	6.241	(1.054)	376819	80.0000	79.8786
	15 bis(2-Chloroisopropyl) ether	45	6.261	6.261	(1.057)	734568	80.0000	78.9066
	16 4-Methylphenol	107	6.435	6.435	(1.086)	561018	80.0000	79.3400(Q)
	17 N-Nitroso-di-n-propylamine	70	6.455	6.455	(1.090)	288378	80.0000	79.4263
	18 Hexachloroethane	117	6.486	6.486	(1.095)	292092	80.0000	77.3137
$	19 Nitrobenzene-d5	82	6.588	6.588	(0.890)	563620	80.0000	78.3662
	20 Nitrobenzene	77	6.609	6.609	(0.892)	516311	80.0000	78.0592

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ412.D
Report Date: 05-Oct-2004 08:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.895	6.895	(0.931)	1017887	80.0000	80.6402
	22 2-Nitrophenol	139	6.967	6.967	(0.941)	332118	80.0000	75.4104
	23 2,4-Dimethylphenol	122	7.049	7.049	(0.952)	420363	80.0000	78.5596
	24 bis(2-Chloroethoxy)methane	93	7.151	7.151	(0.965)	586984	80.0000	80.0888
	26 2,4-Dichlorophenol	162	7.253	7.253	(0.979)	547885	80.0000	79.6982
	25 Benzoic acid	122	7.315	7.315	(0.988)	299396	80.0000	81.5719(Q)
	27 1,2,4-Trichlorobenzene	180	7.345	7.345	(0.992)	635624	80.0000	78.1799
*	28 Naphthalene-d8	136	7.407	7.407	(1.000)	760327	40.0000	
	29 Naphthalene	128	7.427	7.427	(1.003)	1543212	80.0000	75.2969
	30 4-Chloroaniline	127	7.519	7.519	(1.015)	661993	80.0000	80.0974
	31 Hexachlorobutadiene	225	7.570	7.570	(1.022)	465837	80.0000	80.3187
	32 4-Chloro-3-methylphenol	107	8.102	8.102	(1.094)	497162	80.0000	76.1213
	33 2-Methylnaphthalene	142	8.255	8.255	(1.115)	1179341	80.0000	79.2953
	34 Hexachlorocyclopentadiene	237	8.440	8.440	(0.888)	291640	80.0000	74.9844
	35 2,4,6-Trichlorophenol	196	8.603	8.603	(0.905)	443773	80.0000	77.4483
	36 2,4,5-Trichlorophenol	196	8.644	8.644	(0.910)	463638	80.0000	80.5088
$	37 2-Fluorobiphenyl	172	8.705	8.705	(0.916)	1371219	80.0000	80.0754
	38 2-Chloronaphthalene	162	8.838	8.838	(0.930)	1077931	80.0000	77.9986
	39 2-Nitroaniline	65	8.992	8.992	(0.946)	318193	80.0000	78.9537
	40 Dimethylphthalate	163	9.227	9.227	(0.971)	1521565	80.0000	79.1735
	41 2,6-Dinitrotoluene	165	9.309	9.309	(0.980)	347420	80.0000	76.8872
	42 Acenaphthylene	152	9.340	9.340	(0.983)	1803481	80.0000	80.6367
	43 3-Nitroaniline	138	9.503	9.503	(1.000)	282536	80.0000	80.4678
*	44 Acenaphthene-d10	164	9.503	9.503	(1.000)	486675	40.0000	
	45 Acenaphthene	154	9.554	9.554	(1.005)	1060255	80.0000	81.6300
	46 2,4-Dinitrophenol	184	9.636	9.636	(1.014)	231219	80.0000	77.6881
	47 4-Nitrophenol	109	9.738	9.738	(1.025)	240148	80.0000	87.4304(Q)
	48 Dibenzofuran	168	9.759	9.759	(1.027)	1555698	80.0000	76.1295
	51 2,4-Dinitrotoluene	165	9.790	9.790	(1.030)	460613	80.0000	80.0429
	49 Diethylphthalate	149	10.086	10.086	(1.061)	1512393	80.0000	76.2877
	52 Fluorene	166	10.178	10.178	(1.071)	1410480	80.0000	85.9602
	50 4-Chlorophenyl-phenylether	204	10.178	10.178	(1.071)	827496	80.0000	83.5802
	53 4-Nitroaniline	138	10.281	10.281	(1.082)	243430	80.0000	84.9491
	54 4,6-Dinitro-2-methylphenol	198	10.301	10.301	(0.911)	288904	80.0000	82.2899(Q)
	55 N-Nitrosodiphenylamine	169	10.352	10.352	(0.916)	869556	80.0000	79.1650
	56 Azobenzene	77	10.373	10.373	(0.918)	1228991	80.0000	80.1935
$	57 2,4,6-Tribromophenol	330	10.475	10.475	(1.102)	276292	80.0000	79.2042
	58 4-Bromophenyl-phenylether	248	10.771	10.771	(0.953)	443732	80.0000	80.0240
	59 Hexachlorobenzene	284	10.843	10.843	(0.959)	533269	80.0000	82.2322
	60 Pentachlorophenol	266	11.089	11.089	(0.981)	329054	80.0000	82.3056
*	61 Phenanthrene-d10	188	11.303	11.303	(1.000)	821389	40.0000	
	62 Phenanthrene	178	11.334	11.334	(1.003)	1741870	80.0000	77.8999
	63 Anthracene	178	11.395	11.395	(1.008)	1739924	80.0000	78.7001
	64 Carbazole	167	11.600	11.600	(1.026)	1199340	80.0000	76.3279
	65 Di-n-butylphthalate	149	12.040	12.040	(1.065)	2634433	80.0000	78.8562
	66 Fluoranthene	202	12.766	12.766	(1.129)	2080872	80.0000	81.4887
	68 Pyrene	202	13.042	13.042	(0.899)	2028743	80.0000	80.5127
	67 Benzidine	184	12.950	12.950	(0.893)	186547	80.0000	83.8861
$	69 Terphenyl-d14	244	13.247	13.247	(0.913)	1685834	80.0000	87.0062
	70 Butylbenzylphthalate	149	13.850	13.850	(0.955)	1171833	80.0000	84.3761
	71 3,3'-Dichlorobenzidine	252	14.484	14.484	(0.999)	665881	80.0000	91.3423
	72 Benzo(a)anthracene	228	14.484	14.484	(0.999)	1909443	80.0000	85.2202
*	73 Chrysene-d12	240	14.505	14.505	(1.000)	710892	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.545	14.545	(1.003)	1809637	80.0000	88.5184

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ412.D
Report Date: 05-Oct-2004 08:58

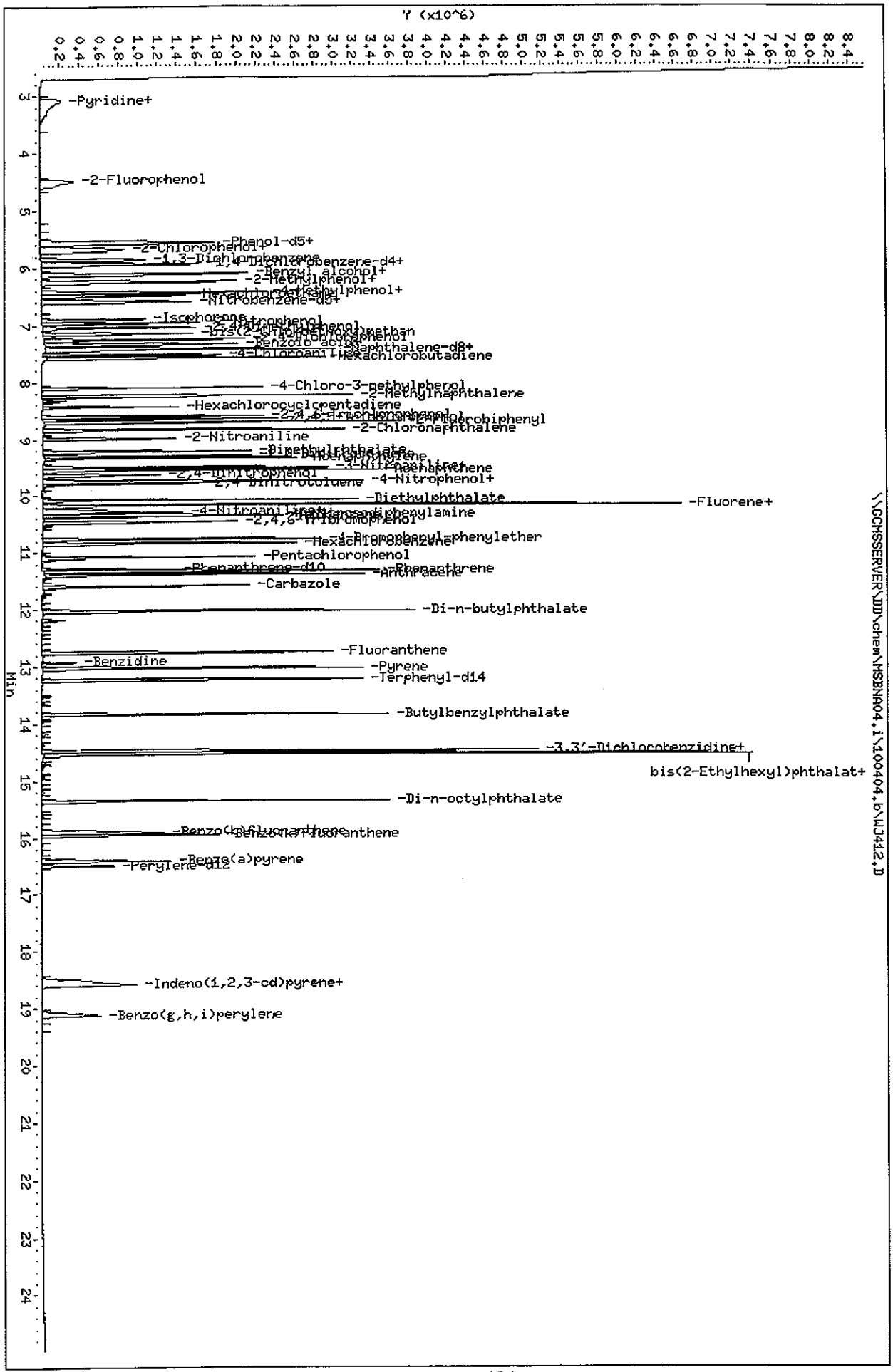
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Chrysene	228	14.545	14.545	(1.003)	1746694	80.0000	82.3946
76 Di-n-octylphthalate	149	15.364	15.364	(0.931)	2624611	80.0000	86.8508
77 Benzo(b)fluoranthene	252	15.926	15.926	(0.965)	1731536	80.0000	77.6057
78 Benzo(k)fluoranthene	252	15.957	15.957	(0.967)	1460886	80.0000	86.5752(A)
79 Benzo(a)pyrene	252	16.417	16.417	(0.994)	1259082	80.0000	82.1927
* 80 Perylene-d12	264	16.509	16.509	(1.000)	487407	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.534	18.534	(1.123)	1168312	80.0000	78.9532
82 Dibenz(a,h)anthracene	278	18.596	18.596	(1.126)	949787	80.0000	79.1649
83 Benzo(g,h,i)perylene	276	19.138	19.138	(1.159)	888174	80.0000	76.3832

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ412.D
Date : 04-OCT-2004 17:46
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1860
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA04 Calname : 6PTBNA4
Calnum : 534400909001 Caldate : 04-OCT-2004 Caltype :

ICV 534400909013 (wj413) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodimethylamine	P	534400909013	04-OCT-2004	80.000	89.476	ng	12	30	
Pyridine	P	534400909013	04-OCT-2004	80.000	98.986	ng	**24**	30	!v+
Phenol	P	534400909013	04-OCT-2004	80.000	82.158	ng	3	20	
Aniline	P	534400909013	04-OCT-2004	80.000	76.458	ng	-4	30	
bis(2-Chloroethyl)ether	P	534400909013	04-OCT-2004	80.000	80.714	ng	1	30	
2-Chlorophenol	P	534400909013	04-OCT-2004	80.000	84.072	ng	5	30	
1,3-Dichlorobenzene	P	534400909013	04-OCT-2004	80.000	81.215	ng	2	30	
1,4-Dichlorobenzene	P	534400909013	04-OCT-2004	80.000	80.664	ng	1	20	
Benzyl alcohol	P	534400909013	04-OCT-2004	80.000	93.185	ng	16	30	
1,2-Dichlorobenzene	P	534400909013	04-OCT-2004	80.000	84.371	ng	5	30	
2-Methylphenol	P	534400909013	04-OCT-2004	80.000	80.011	ng	0	30	
bis(2-Chloroisopropyl) ether	P	534400909013	04-OCT-2004	80.000	79.099	ng	-1	30	
4-Methylphenol	P	534400909013	04-OCT-2004	80.000	83.405	ng	4	30	
N-Nitroso-di-n-propylamine	P	534400909013	04-OCT-2004	80.000	87.099	ng	9	30	
Hexachloroethane	P	534400909013	04-OCT-2004	80.000	81.497	ng	2	30	
Nitrobenzene	P	534400909013	04-OCT-2004	80.000	80.336	ng	0	30	
Isophorone	P	534400909013	04-OCT-2004	80.000	89.401	ng	12	30	
2-Nitrophenol	P	534400909013	04-OCT-2004	80.000	83.017	ng	4	20	
2,4-Dimethylphenol	P	534400909013	04-OCT-2004	80.000	82.804	ng	4	30	
bis(2-Chloroethoxy)methane	P	534400909013	04-OCT-2004	80.000	77.715	ng	-3	30	
Benzoic acid	P	534400909013	04-OCT-2004	80.000	101.12	ng	26	40	
2,4-Dichlorophenol	P	534400909013	04-OCT-2004	80.000	82.793	ng	3	20	
1,2,4-Trichlorobenzene	P	534400909013	04-OCT-2004	80.000	80.442	ng	1	30	
Naphthalene	P	534400909013	04-OCT-2004	80.000	81.051	ng	1	30	
4-Chloroaniline	P	534400909013	04-OCT-2004	80.000	71.233	ng	-11	30	
Hexachlorobutadiene	P	534400909013	04-OCT-2004	80.000	80.840	ng	1	20	
4-Chloro-3-methylphenol	P	534400909013	04-OCT-2004	80.000	85.976	ng	7	20	
2-Methylnaphthalene	P	534400909013	04-OCT-2004	80.000	80.004	ng	0	30	
Hexachlorocyclopentadiene	P	534400909013	04-OCT-2004	80.000	94.409	ng	18	40	
2,4,6-Trichlorophenol	P	534400909013	04-OCT-2004	80.000	90.323	ng	13	20	
2,4,5-Trichlorophenol	P	534400909013	04-OCT-2004	80.000	89.203	ng	12	30	
2-Chloronaphthalene	P	534400909013	04-OCT-2004	80.000	85.172	ng	6	30	
2-Nitroaniline	P	534400909013	04-OCT-2004	80.000	86.606	ng	8	30	
Dimethylphthalate	P	534400909013	04-OCT-2004	80.000	82.536	ng	3	30	
2,6-Dinitrotoluene	P	534400909013	04-OCT-2004	80.000	78.850	ng	-1	30	
Acenaphthylene	P	534400909013	04-OCT-2004	80.000	84.741	ng	6	30	
3-Nitroaniline	P	534400909013	04-OCT-2004	80.000	31.848	ng	**-60**	30	v- ***
Acenaphthene	P	534400909013	04-OCT-2004	80.000	85.476	ng	7	20	
2,4-Dinitrophenol	P	534400909013	04-OCT-2004	80.000	87.442	ng	9	40	
4-Nitrophenol	P	534400909013	04-OCT-2004	80.000	95.206	ng	19	40	
Dibenzofuran	P	534400909013	04-OCT-2004	80.000	82.133	ng	3	30	
2,4-Dinitrotoluene	P	534400909013	04-OCT-2004	80.000	88.592	ng	11	30	
Diethylphthalate	P	534400909013	04-OCT-2004	80.000	80.973	ng	1	30	
Fluorene	P	534400909013	04-OCT-2004	80.000	88.425	ng	11	30	
4-Chlorophenyl-phenylether	P	534400909013	04-OCT-2004	80.000	88.280	ng	10	40	
4-Nitroaniline	P	534400909013	04-OCT-2004	80.000	29.718	ng	**-63**	30	v- ***
4,6-Dinitro-2-methylphenol	P	534400909013	04-OCT-2004	80.000	95.616	ng	20	30	

!=warning +=high bias -=low bias v=ICV
Page 1 of 2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA04 Calname : 6PTBNA4
Calnum : 534400909001 Caldate : 04-OCT-2004 Caltype :

ICV 534400909013 (wj413) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodiphenylamine	P	534400909013	04-OCT-2004	80.000	75.656	ng	-5	20	
Azobenzene	P	534400909013	04-OCT-2004	80.000	84.072	ng	5	30	
4-Bromophenyl-phenylether	P	534400909013	04-OCT-2004	80.000	81.622	ng	2	30	
Hexachlorobenzene	P	534400909013	04-OCT-2004	80.000	86.594	ng	8	30	
Pentachlorophenol	P	534400909013	04-OCT-2004	80.000	90.044	ng	13	20	
Phenanthrene	P	534400909013	04-OCT-2004	80.000	85.650	ng	7	30	
Anthracene	P	534400909013	04-OCT-2004	80.000	86.398	ng	8	30	
Carbazole	P	534400909013	04-OCT-2004	80.000	16.598	ng	-79	30	v- ***
Di-n-butylphthalate	P	534400909013	04-OCT-2004	80.000	80.679	ng	1	30	
Fluoranthene	P	534400909013	04-OCT-2004	80.000	90.378	ng	13	20	
Benzidine	P	534400909013	04-OCT-2004	80.000	22.602	ng	-72	40	v- ***
Pyrene	P	534400909013	04-OCT-2004	80.000	76.593	ng	-4	30	
Butylbenzylphthalate	P	534400909013	04-OCT-2004	80.000	79.611	ng	0	30	
3,3'-Dichlorobenzidine	P	534400909013	04-OCT-2004	80.000	61.760	ng	-23	40	
Benzo(a)anthracene	P	534400909013	04-OCT-2004	80.000	84.445	ng	6	30	
bis(2-Ethylhexyl)phthalate	P	534400909013	04-OCT-2004	80.000	85.328	ng	7	30	
Chrysene	P	534400909013	04-OCT-2004	80.000	82.198	ng	3	30	
Di-n-octylphthalate	P	534400909013	04-OCT-2004	80.000	88.323	ng	10	20	
Benzo(b)fluoranthene	P	534400909013	04-OCT-2004	80.000	87.145	ng	9	30	
Benzo(k)fluoranthene	P	534400909013	04-OCT-2004	80.000	79.949	ng	0	30	
Benzo(a)pyrene	P	534400909013	04-OCT-2004	80.000	87.130	ng	9	20	
Indeno(1,2,3-cd)pyrene	P	534400909013	04-OCT-2004	80.000	81.917	ng	2	30	
Dibenz(a,h)anthracene	P	534400909013	04-OCT-2004	80.000	86.411	ng	8	30	
Benzo(g,h,i)perylene	P	534400909013	04-OCT-2004	80.000	78.689	ng	-2	30	
2-Fluorophenol	P	534400909013	04-OCT-2004	80.000	85.063	ng	6	30	
Phenol-d5	P	534400909013	04-OCT-2004	80.000	83.235	ng	4	30	
Nitrobenzene-d5	P	534400909013	04-OCT-2004	80.000	82.384	ng	3	30	
2-Fluorobiphenyl	P	534400909013	04-OCT-2004	80.000	83.364	ng	4	30	
2,4,6-Tribromophenol	P	534400909013	04-OCT-2004	80.000	79.873	ng	0	30	
Terphenyl-d14	P	534400909013	04-OCT-2004	80.000	80.369	ng	0	30	

!=warning +=high bias -=low bias v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ413.D
Report Date: 05-Oct-2004 09:05

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ413.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 04-OCT-2004 18:22 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICV,04WS1724
Misc Info : 80ug/ml ICV STD NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\6PTBNA4.m
Meth Date : 05-Oct-2004 08:58 target Quant Type: ISTD
Cal Date : 04-OCT-2004 17:46 Cal File: WJ412.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	74	3.078	3.080	(0.520)	261571	89.4763	89.4762
	2 Pyridine	79	3.068	3.070	(0.518)	499313	98.9864	98.9864
$	3 2-Fluorophenol	112	4.500	4.481	(0.760)	606510	85.0625	85.0625
$	4 Phenol-d5	99	5.564	5.555	(0.940)	648315	83.2353	83.2352
	5 Phenol	94	5.574	5.566	(0.941)	694120	82.1581	82.1581
	6 Aniline	66	5.574	5.566	(0.941)	702400	76.4581	76.4581(Q)
	7 bis(2-Chloroethyl)ether	63	5.666	5.647	(0.957)	491756	80.7144	80.7143(M)
	8 2-Chlorophenol	128	5.707	5.688	(0.964)	684307	84.0722	84.0722
	9 1,3-Dichlorobenzene	146	5.860	5.852	(0.990)	758653	81.2146	81.2145
*	10 1,4-Dichlorobenzene-d4	152	5.922	5.924	(1.000)	264568	40.0000	
	11 1,4-Dichlorobenzene	146	5.942	5.944	(1.003)	779584	80.6643	80.6643
	12 Benzyl alcohol	108	6.116	6.118	(1.033)	408573	93.1849	93.1849
	13 1,2-Dichlorobenzene	146	6.116	6.108	(1.033)	746554	84.3708	84.3707
	14 2-Methylphenol	107	6.249	6.241	(1.055)	432959	80.0113	80.0113
	15 bis(2-Chloroisopropyl) ether	45	6.259	6.261	(1.057)	844662	79.0990	79.0990
	16 4-Methylphenol	107	6.443	6.435	(1.088)	676505	83.4052	83.4052
	17 N-Nitroso-di-n-propylamine	70	6.464	6.455	(1.092)	362747	87.0990	87.0990
	18 Hexachloroethane	117	6.484	6.486	(1.095)	353181	81.4969	81.4969
$	19 Nitrobenzene-d5	82	6.586	6.588	(0.890)	678306	82.3836	82.3835(R)
	20 Nitrobenzene	77	6.607	6.609	(0.892)	608312	80.3362	80.3362

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ413.D
Report Date: 05-Oct-2004 09:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
	21 Isophorone	82	6.903	6.895	(0.932)	1291867	89.4009	89.4009
	22 2-Nitrophenol	139	6.965	6.967	(0.941)	418559	83.0171	83.0171
	23 2,4-Dimethylphenol	122	7.047	7.049	(0.952)	507231	82.8043	82.8043
	24 bis(2-Chloroethoxy)methane	93	7.149	7.151	(0.965)	652061	77.7152	77.7151
	26 2,4-Dichlorophenol	162	7.261	7.253	(0.981)	651574	82.7933	82.7932
	25 Benzoic acid	122	7.343	7.315	(0.992)	441099	101.120	101.1196(M)
	27 1,2,4-Trichlorobenzene	180	7.343	7.345	(0.992)	748710	80.4416	80.4416
*	28 Naphthalene-d8	136	7.405	7.407	(1.000)	870419	40.0000	
	29 Naphthalene	128	7.425	7.427	(1.003)	1901661	81.0508	81.0507
	30 4-Chloroaniline	127	7.507	7.519	(1.014)	673975	71.2329	71.2329
	31 Hexachlorobutadiene	225	7.578	7.570	(1.023)	536750	80.8402	80.8401
	32 4-Chloro-3-methylphenol	107	8.100	8.102	(1.094)	642828	85.9756	85.9755
	33 2-Methylnaphthalene	142	8.253	8.255	(1.115)	1362177	80.0044	80.0043
	34 Hexachlorocyclopentadiene	237	8.438	8.440	(0.888)	436569	94.4086	94.4085
	35 2,4,6-Trichlorophenol	196	8.611	8.603	(0.906)	594025	90.3232	90.3232
	36 2,4,5-Trichlorophenol	196	8.652	8.644	(0.911)	589618	89.2028	89.2028
$	37 2-Fluorobiphenyl	172	8.703	8.705	(0.916)	1638490	83.3643	83.3643(R)
	38 2-Chloronaphthalene	162	8.836	8.838	(0.930)	1350999	85.1716	85.1715
	39 2-Nitroaniline	65	9.000	8.992	(0.947)	400609	86.6057	86.6056
	40 Dimethylphthalate	163	9.225	9.227	(0.971)	1820586	82.5361	82.5361
	41 2,6-Dinitrotoluene	165	9.307	9.309	(0.980)	408939	78.8499	78.8499
	42 Acenaphthylene	152	9.338	9.340	(0.983)	2175343	84.7408	84.7408
	43 3-Nitroaniline	138	9.522	9.503	(1.002)	128349	31.8482	31.8481
*	44 Acenaphthene-d10	164	9.501	9.503	(1.000)	558593	40.0000	
	45 Acenaphthene	154	9.552	9.554	(1.005)	1274267	85.4759	85.4759
	46 2,4-Dinitrophenol	184	9.634	9.636	(1.014)	302418	87.4422	87.4421
	47 4-Nitrophenol	109	9.736	9.738	(1.025)	300149	95.2059	95.2059(Q)
	48 Dibenzofuran	168	9.757	9.759	(1.027)	1926386	82.1325	82.1324
	51 2,4-Dinitrotoluene	165	9.798	9.790	(1.031)	585145	88.5919	88.5919
	49 Diethylphthalate	149	10.084	10.086	(1.061)	1842494	80.9730	80.9729
	52 Fluorene	166	10.176	10.178	(1.071)	1665327	88.4247	88.4247
	50 4-Chlorophenyl-phenylether	204	10.176	10.178	(1.071)	1003189	88.2803	88.2803
	53 4-Nitroaniline	138	10.289	10.281	(1.083)	97745	29.7182	29.7182
	54 4,6-Dinitro-2-methylphenol	198	10.299	10.301	(0.911)	394806	95.6161	95.6160(Q)
	55 N-Nitrosodiphenylamine	169	10.350	10.352	(0.916)	977361	75.6562	75.6562
	56 Azobenzene	77	10.371	10.373	(0.918)	1515322	84.0716	84.0716
$	57 2,4,6-Tribromophenol	330	10.473	10.475	(1.102)	319800	79.8734	79.8733
	58 4-Bromophenyl-phenylether	248	10.769	10.771	(0.953)	532298	81.6222	81.6221
	59 Hexachlorobenzene	284	10.851	10.843	(0.960)	660448	86.5941	86.5941
	60 Pentachlorophenol	266	11.086	11.089	(0.981)	423389	90.0442	90.0442
*	61 Phenanthrene-d10	188	11.301	11.303	(1.000)	966040	40.0000	
	62 Phenanthrene	178	11.332	11.334	(1.003)	2252436	85.6500	85.6500
	63 Anthracene	178	11.393	11.395	(1.008)	2246479	86.3976	86.3975
	64 Carbazole	167	11.598	11.600	(1.026)	306737	16.5982	16.5982
	65 Di-n-butylphthalate	149	12.038	12.040	(1.065)	3169995	80.6792	80.6791
	66 Fluoranthene	202	12.774	12.766	(1.130)	2714294	90.3781	90.3781
	68 Pyrene	202	13.040	13.042	(0.899)	2362250	76.5933	76.5933
	67 Benzidine	184	12.948	12.950	(0.892)	61521	22.6023	22.6023
$	69 Terphenyl-d14	244	13.244	13.247	(0.913)	1906006	80.3688	80.3688(R)
	70 Butylbenzylphthalate	149	13.848	13.850	(0.954)	1353299	79.6114	79.6113
	71 3,3'-Dichlorobenzidine	252	14.482	14.484	(0.998)	551065	61.7598	61.7598
	72 Benzo(a)anthracene	228	14.492	14.484	(0.999)	2315860	84.4453	84.4453
*	73 Chrysene-d12	240	14.513	14.505	(1.000)	870114	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.543	14.545	(1.002)	2135123	85.3282	85.3282

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ413.D
Report Date: 05-Oct-2004 09:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
74 Chrysene	228	14.543	14.545	(1.002)	2132809	82.1981	82.1980
76 Di-n-octylphthalate	149	15.362	15.364	(0.931)	3091591	88.3225	88.3224
77 Benzo(b)fluoranthene	252	15.934	15.926	(0.965)	2307845	87.1450	87.1450
78 Benzo(k)fluoranthene	252	15.965	15.957	(0.967)	1562632	79.9493	79.9492(A)
79 Benzo(a)pyrene	252	16.425	16.417	(0.995)	1546002	87.1304	87.1303
* 80 Perylene-d12	264	16.507	16.509	(1.000)	564562	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	18.553	18.534	(1.124)	1404042	81.9165	81.9165
82 Dibenz(a,h)anthracene	278	18.604	18.596	(1.127)	1200833	86.4111	86.4111
83 Benzo(g,h,i)perylene	276	19.136	19.138	(1.159)	1059827	78.6892	78.6892

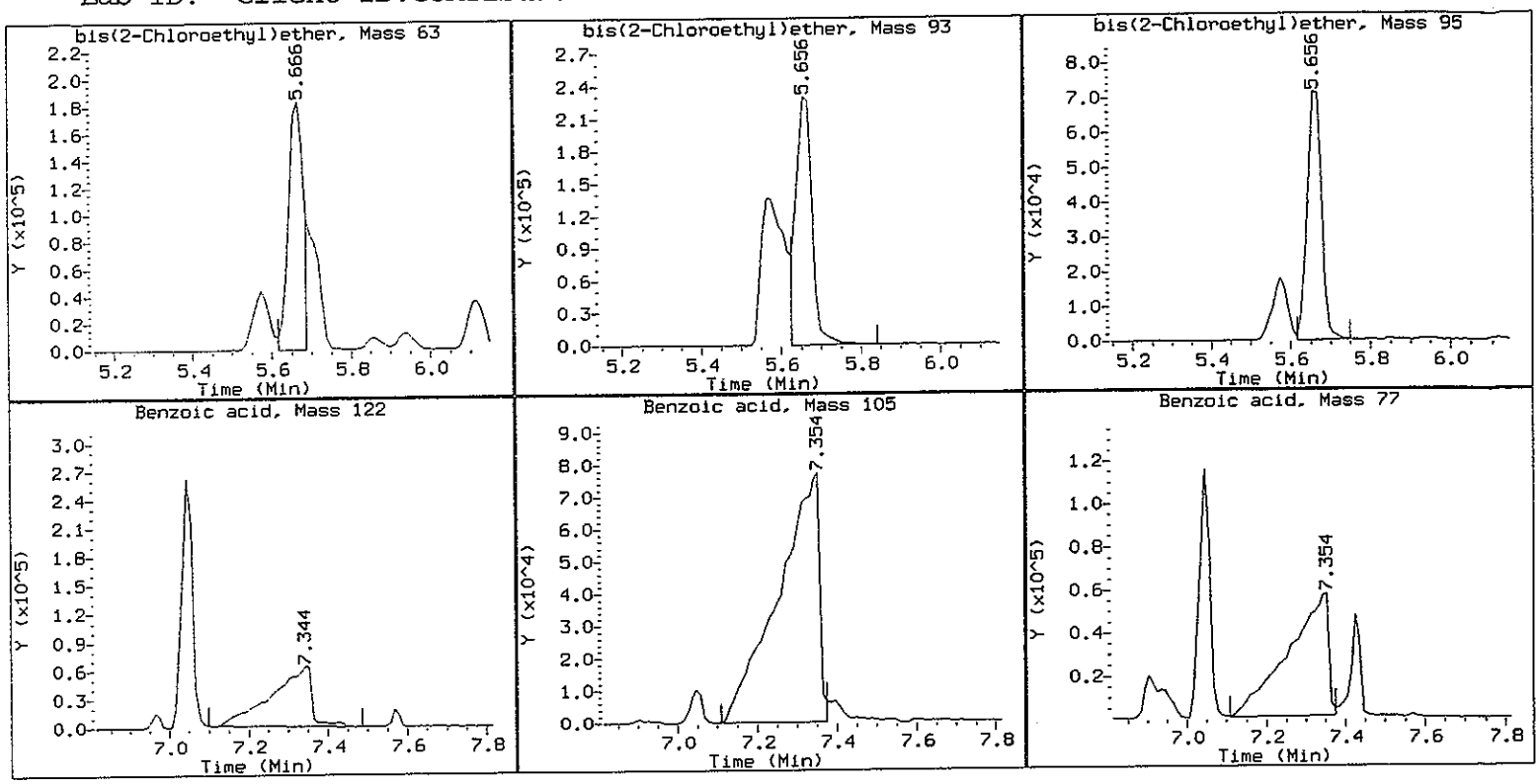
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Signal Manual Integrations Report

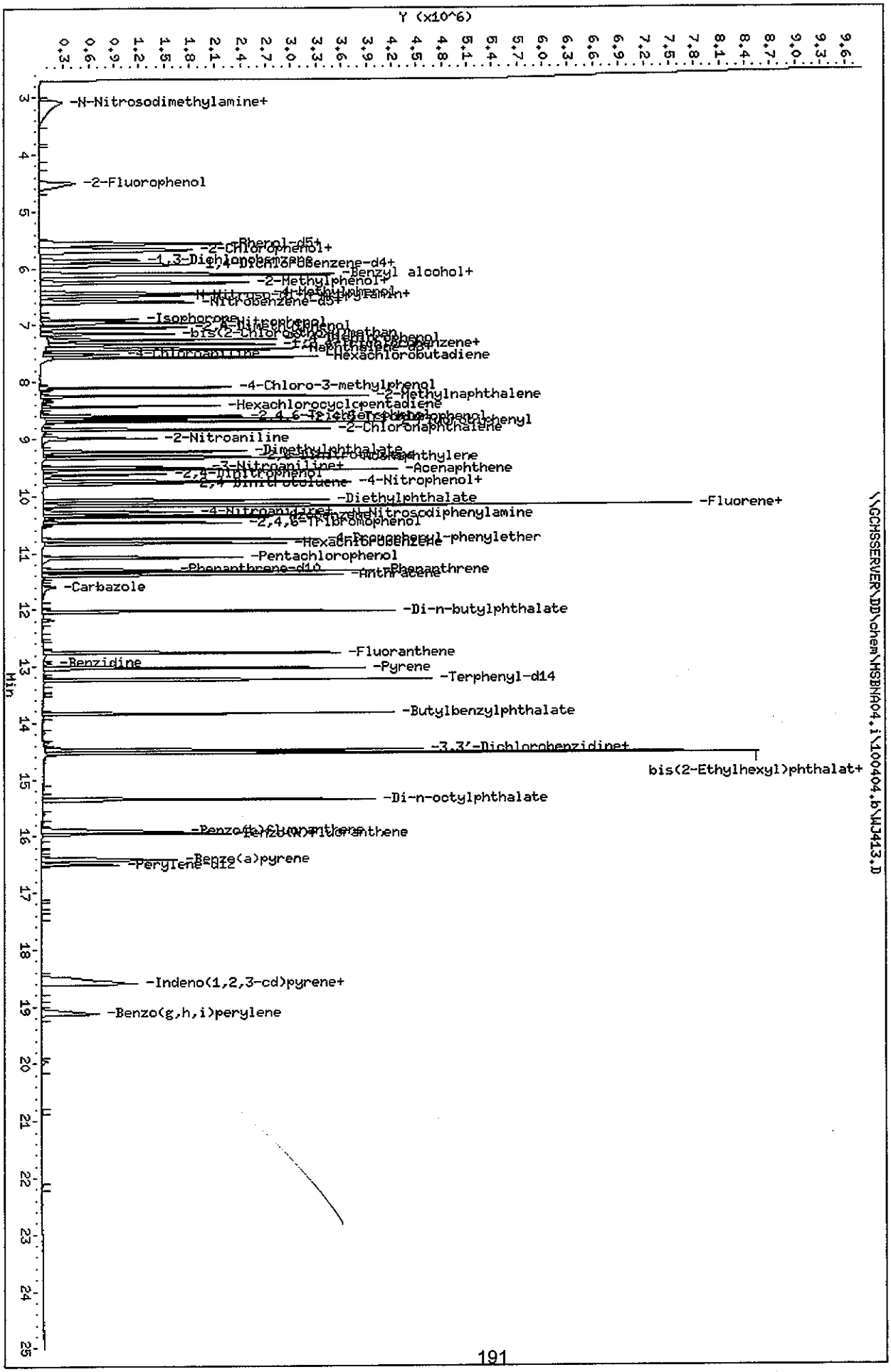
Report Date: 10/05/2004 09:05

Datafile: //GCMSSERVER/DD/chem/MSBNA04.i/100404.b/WJ413.D
Injection Date: 04-OCT-2004 18:22
Lab ID: Client ID:CURTIS&TOMPKINS



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\100404.b\WJ413.D
Date : 04-OCT-2004 18:22
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,04WS1724
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



BNA05 RPD Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

See quant reports for manual integrations due to splitting/misidentification

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	xj604	544403805004	2ug/mL	06-OCT-2004 12:18	04WS1856
2	xj605	544403805005	10ug/mL	06-OCT-2004 12:56	04WS1857
3	xj606	544403805006	20ug/mL	06-OCT-2004 13:33	04WS1858
4	xj607	544403805007	50ug/mL	06-OCT-2004 14:11	04WS1859
5	xj608	544403805008	80ug/mL	06-OCT-2004 14:48	04WS1860
6	xj609	544403805009	120ug/mL	06-OCT-2004 15:25	04WS1861
7	xj610	544403805010	160ug/mL	06-OCT-2004 16:01	04WS1862

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
N-Nitrosodimethylamine		0.3932	0.3889	0.4007	0.4062	0.4018	0.3891	AVRG	R		2.521228		ng	0.3966	2	0.0500	0.99	15	
Pyridine		0.9476	1.0243	1.0376	1.0740	1.0772	1.0637	AVRG	R		0.963955		ng	1.0374	5	0.0500	0.99	15	
Phenol		1.4264	1.4261	1.3755	1.3693	1.3617	1.3334	AVRG	R		0.723546		ng	1.3821	3	0.0500	0.99	15	
Aniline		0.4986	0.4996	0.4949	0.5008	0.5051	0.4914	AVRG	R		2.006485		ng	0.4984	1	0.0500	0.99	15	
bis(2-Chloroethyl)ether		0.7418	0.7077	0.7246	0.7602	0.7600	0.7203	AVRG	R		1.359130		ng	0.7358	3	0.0500	0.99	15	
2-Chlorophenol		1.1879	1.1795	1.2008	1.2271	1.2474	1.2224	AVRG	R		0.825862		ng	1.2109	2	0.0500	0.99	15	
1,3-Dichlorobenzene		1.4720	1.4606	1.4924	1.5461	1.5280	1.4734	AVRG	R		0.668704		ng	1.4954	2	0.0500	0.99	15	
1,4-Dichlorobenzene		1.4797	1.4686	1.5185	1.5059	1.4735	1.4219	AVRG	R		0.676579		ng	1.4780	2	0.0500	0.99	15	
Benzyl alcohol		0.6368	0.6503	0.6826	0.7149	0.7293	0.7218	AVRG	R		1.450761		ng	0.6893	6	0.0500	0.99	15	
1,2-Dichlorobenzene		1.3712	1.3652	1.4148	1.4452	1.4251	1.3496	AVRG	R		0.716743		ng	1.3952	3	0.0500	0.99	15	
2-Methylphenol		0.8053	0.8155	0.8274	0.8307	0.8529	0.7808	AVRG	R		1.221348		ng	0.8188	3	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		1.4944	1.4472	1.4759	1.5000	1.4834	1.3818	AVRG	R		0.683160		ng	1.4638	3	0.0500	0.99	15	
4-Methylphenol		1.2354	1.2418	1.2614	1.2869	1.3185	1.3014	AVRG	R		0.784767		ng	1.2743	3	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.5526	0.5448	0.5690	0.5561	0.5806	0.5530	AVRG	R		1.787769		ng	0.5594	2	0.0500	0.99	15	
Hexachloroethane		0.4939	0.4899	0.5136	0.5260	0.5118	0.4859	AVRG	R		1.986033		ng	0.5035	3	0.0500	0.99	15	
Nitrobenzene		0.2860	0.2799	0.2827	0.2875	0.2830	0.2711	AVRG	R		3.549958		ng	0.2817	2	0.0500	0.99	15	
Isophorone		0.5226	0.5219	0.5233	0.5279	0.5231	0.5238m	AVRG	R		1.909298		ng	0.5238	0	0.0500	0.99	15	
2-Nitrophenol		0.1905	0.1944	0.2008	0.2003	0.1938	0.1825	AVRG	R		5.162365		ng	0.1937	4	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

Benz(b)fluoranthene calibrated to 80 ug/mL

ICAL: Oh except Benzidine fails %RSD + r^2
ICV: Benzoic Acid ↑; Benzidine ↓; Benzo(b)fluoranthene ↑ fail %D
→ 4,6-Dinitro-2-methylphenol ↑; Carbazole ↓; find increasing limits

10/07/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
2,4-Dimethylphenol		0.2727	0.2814	0.2776	0.2717	0.2608	0.2478	AVRG	R		3.721864		ng	0.2687	5	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.3664	0.3608	0.3741	0.3769	0.3664	0.3500	AVRG	R		2.733963		ng	0.3658	3	0.0500	0.99	15	
Benzoic acid		0.0806	0.1094	0.1589	0.1663	0.1783	0.1865	LINR	R	8.497146	5.154161		ng	0.1467	0.999	0.0500	0.99	15	
2,4-Dichlorophenol		0.3103	0.3178	0.3263	0.3277	0.3240	0.3166	AVRG	R		3.120716		ng	0.3204	2	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3844	0.3912	0.4035	0.4073	0.3965	0.3730	AVRG	R		2.546756		ng	0.3927	3	0.0500	0.99	15	
Naphthalene	0.9203	0.9465	0.9549	0.9944	1.0027	0.9467	0.8415	AVRG	R		1.059503		ng	0.9438	6	0.0500	0.99	15	
4-Chloroaniline		0.3752	0.3831	0.3965	0.4071	0.3997	0.3892	AVRG	R		2.552276		ng	0.3918	3	0.0500	0.99	15	
Hexachlorobutadiene		0.2563	0.2601	0.2682	0.2697	0.2550	0.2358	AVRG	R		3.883419		ng	0.2575	5	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2423	0.2502	0.2578	0.2592	0.2571	0.2545	AVRG	R		3.944592		ng	0.2535	3	0.0500	0.99	15	
2-Methylnaphthalene	0.6804	0.7222	0.7439	0.7744	0.7784	0.7297	0.6594	AVRG	R		1.375631		ng	0.7269	6	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.2581	0.2850	0.3363	0.3651	0.3645	0.3484	AVRG	R		3.065112		ng	0.3263	14	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3993	0.3954	0.4241	0.4302	0.4283	0.4195	AVRG	R		2.403008		ng	0.4161	4	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3892	0.3905	0.4159	0.4342	0.4295	0.4101	AVRG	R		2.429734		ng	0.4116	5	0.0500	0.99	15	
2-Chloronaphthalene		1.0352	1.0270	1.0748	1.0973	1.0539	0.9580	AVRG	R		0.960597		ng	1.0410	5	0.0500	0.99	15	
2-Nitroaniline		0.2147	0.2059	0.2128	0.2201	0.2204	0.2102	AVRG	R		4.672480		ng	0.2140	3	0.0500	0.99	15	
Dimethylphthalate		1.1886	1.1943	1.2864	1.3349	1.3124	1.2438	AVRG	R		0.793605		ng	1.2601	5	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2832	0.2861	0.3083	0.3291	0.3203	0.3001	AVRG	R		3.284015		ng	0.3045	6	0.0500	0.99	15	
Acenaphthylene	1.6051	1.6301	1.6339	1.7169	1.7436	1.6550	1.4608	AVRG	R		0.611600		ng	1.6351	6	0.0500	0.99	15	
3-Nitroaniline		0.2643	0.2594	0.2911	0.3048	0.3172	0.2974	AVRG	R		3.459958		ng	0.2890	8	0.0500	0.99	15	
Acenaphthene	0.8957	1.0053	0.9967	1.0590	1.0915	1.0428	0.9469	AVRG	R		0.994608		ng	1.0054	7	0.0500	0.99	15	
2,4-Dinitrophenol		0.1046	0.1390	0.1779	0.1997	0.2190	0.2179	QUAD	R	6.760946	4.687893	-0.00964	ng	0.1763	0.999	0.0500	0.99	15	
4-Nitrophenol		0.0847	0.0906	0.0998	0.1054	0.1037	0.1001	AVRG	R		10.27018		ng	0.0974	8	0.0500	0.99	15	
Dibenzofuran		1.5501	1.5433	1.6203	1.6348	1.5509	1.4214	AVRG	R		0.643711		ng	1.5535	5	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3633	0.3680	0.3956	0.4065	0.4210	0.3937	AVRG	R		2.555161		ng	0.3914	6	0.0500	0.99	15	
Diethylphthalate		1.1224	1.1442	1.2432	1.2307	1.2187	1.0602	AVRG	R		0.854773		ng	1.1699	6	0.0500	0.99	15	
Fluorene	1.2184	1.2549	1.2339	1.3271	1.3398	1.2769	1.1862	AVRG	R		0.792109		ng	1.2625	4	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6794	0.6801	0.7227	0.7398	0.6920	0.6230	AVRG	R		1.450338		ng	0.6895	6	0.0500	0.99	15	
4-Nitroaniline		0.2356	0.2302	0.2510	0.2701	0.2791	0.2546	AVRG	R		3.945640		ng	0.2534	7	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.1058	0.1237	0.1357	0.1398	0.1321	0.1180	AVRG	R		7.945568		ng	0.1259	10	0.0500	0.99	15	
N-Nitrosodiphenylamine		0.4318	0.4393	0.4472	0.4665	0.4421	0.4024	AVRG	R		2.281963		ng	0.4382	5	0.0500	0.99	15	
Azobenzene		0.4645	0.4515	0.4479	0.4841	0.4597	0.3794	AVRG	R		2.232740		ng	0.4479	8	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05 Reviewed By:
Calnum: 544403805004 Name: 6PTBNA5 Type: (normal) Date: 06-OCT-2004 12:18 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
4-Bromophenyl-phenylether		0.2422	0.2504	0.2601	0.2628	0.2716	0.2529	AVRG	R		3.896161		ng	0.2567	4	0.0500	0.99	15	
Hexachlorobenzene		0.2760	0.2897	0.3049	0.2961	0.2776	0.2669	AVRG	R		3.506151		ng	0.2852	5	0.0500	0.99	15	
Pentachlorophenol			0.1625	0.1782	0.1871	0.1928	0.1946	AVRG	R		5.463593		ng	0.1830	7	0.0500	0.99	15	
Phenanthrene	0.9155	0.9594	0.9834	1.0066	0.9840	0.9404	0.8902	AVRG	R		1.047969		ng	0.9542	4	0.0500	0.99	15	
Anthracene	0.9558	0.9907	1.0267	1.0490	1.0082	0.9827	0.8992	AVRG	R		1.012701		ng	0.9875	5	0.0500	0.99	15	
Carbazole		0.7431	0.7331	0.7820	0.8103	0.8229	0.7956	AVRG	R		1.280122		ng	0.7812	5	0.0500	0.99	15	
Di-n-butylphthalate		1.1957	1.2457	1.1808	1.0728	1.0140	0.9346	AVRG	R		0.903120		ng	1.1073	11	0.0500	0.99	15	
Fluoranthene	1.2041	1.2795	1.3174	1.3302	1.2441	1.1556	1.0462	AVRG	R		0.816123		ng	1.2253	8	0.0500	0.99	15	
Benzidine		0.1063	0.1609	0.1487	0.1208	0.0940	0.0903	AVRG	R		8.322192		ng	0.1202	24	0.0500	0.99	15	rsd
Pyrene	1.1916	1.2666	1.2891	1.3442	1.3054	1.2232	1.1240	AVRG	R		0.800537		ng	1.2492	6	0.0500	0.99	15	
Butylbenzylphthalate		0.4960	0.5000	0.5304	0.5251	0.5011	0.4759	AVRG	R		1.981130		ng	0.5048	4	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.4455	0.4457	0.4845	0.4942	0.4843	0.4596	AVRG	R		2.132342		ng	0.4690	5	0.0500	0.99	15	
Benzo(a)anthracene	1.2592	1.2509	1.2440	1.2960	1.3123	1.3214	1.2571	AVRG	R		0.782915		ng	1.2773	2	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		0.7302	0.7479	0.7785	0.7713	0.7194	0.6613	AVRG	R		1.361014		ng	0.7347	6	0.0500	0.99	15	
Chrysene	1.0553	1.1132	1.1377	1.2158	1.2198	1.2025	1.1449	AVRG	R		0.865358		ng	1.1556	5	0.0500	0.99	15	
Di-n-octylphthalate		1.3375	1.3347	1.4436	1.4785	1.4623	1.4300	AVRG	R		0.706999		ng	1.4144	4	0.0500	0.99	15	
Benzo(b)fluoranthene	1.2800m	1.3799m	1.3731m	1.6430	1.8431			AVRG	R		0.664974		ng	1.5038	15	0.0500	0.99	15	
Benzo(k)fluoranthene	1.3715	1.4022	1.4316	1.3600	1.2881	1.0775	0.9970m	AVRG	R		0.784060		ng	1.2754	13	0.0500	0.99	15	
Benzo(a)pyrene	1.1905	1.2462	1.2444	1.3169	1.3472	1.3521	1.3353	AVRG	R		0.774969		ng	1.2904	5	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.3637	1.4575	1.4526	1.4330	1.3926	1.3112	1.2333m	AVRG	R		0.725851		ng	1.3777	6	0.0500	0.99	15	
Dibenz(a,h)anthracene	1.0789	1.1622	1.1566	1.1679	1.1513	1.0964	1.0456	AVRG	R		0.890707		ng	1.1227	4	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.1048	1.1891	1.1731	1.1059	1.0520	0.9541	0.8939	AVRG	R		0.936727		ng	1.0675	10	0.0500	0.99	15	
2-Fluorophenol		1.0661	1.0698	1.0979	1.1112	1.1312	1.1208	AVRG	R		0.909503		ng	1.0995	2	0.0500	0.99	15	
Phenol-d5		1.2627	1.2718	1.3343	1.3627	1.3643	1.3195	AVRG	R		0.758013		ng	1.3192	3	0.0500	0.99	15	
Nitrobenzene-d5		0.2923	0.2891	0.2924	0.2969	0.2959	0.2872	AVRG	R		3.421329		ng	0.2923	1	0.0500	0.99	15	
2-Fluorobiphenyl		1.2486	1.2140	1.2872	1.3111	1.2196	1.0575	AVRG	R		0.817663		ng	1.2230	7	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2518	0.2653	0.3044	0.3307	0.3321	0.3146	AVRG	R		3.335325		ng	0.2998	11	0.0500	0.99	15	
Terphenyl-d14		1.0364	1.0575	1.1113	1.0916	1.0369	0.9476	AVRG	R		0.955217		ng	1.0469	5	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 12:18 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1856
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 12:18 Cal File: XJ604.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.147	4.075	(0.618)	18805	2.00000	1.3757
$ 3 2-Fluorophenol	112	5.337	5.337	(0.795)	26366	2.00000	1.8199
$ 4 Phenol-d5	99	6.279	6.289	(0.935)	31727	2.00000	1.8251
5 Phenol	94	6.289	6.310	(0.937)	53807	2.00000	2.9546
6 Aniline	66	6.382	6.393	(0.951)	12487	2.00000	1.9014
7 bis(2-Chloroethyl)ether	63	6.413	6.424	(0.955)	18910	2.00000	1.9505
8 2-Chlorophenol	128	6.507	6.517	(0.969)	30272	2.00000	1.8973
9 1,3-Dichlorobenzene	146	6.672	6.683	(0.994)	37592	2.00000	1.9077
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	527060	40.0000	
11 1,4-Dichlorobenzene	146	6.734	6.735	(1.003)	38272	2.00000	1.9651
12 Benzyl alcohol	108	6.859	6.869	(1.022)	14500	2.00000	1.5964
13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	34621	2.00000	1.8832
14 2-Methylphenol	107	6.972	6.983	(1.039)	21450	2.00000	1.9882
15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	37900	2.00000	1.9649
16 4-Methylphenol	107	7.128	7.149	(1.062)	30588	2.00000	1.8217
17 N-Nitroso-di-n-propylamine	70	7.179	7.211	(1.069)	13882	2.00000	1.8834
18 Hexachloroethane	117	7.304	7.314	(1.088)	12383	2.00000	1.8664
$ 19 Nitrobenzene-d5	82	7.376	7.387	(0.897)	25387	2.00000	1.9391
20 Nitrobenzene	77	7.397	7.418	(0.899)	24822	2.00000	1.9673
21 Isophorone	82	7.645	7.666	(0.930)	44924	2.00000	1.9149

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	22 2,4-Dimethylphenol	122	7.759	7.770	(0.943)	24155	2.00000	2.0071
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	16005	2.00000	1.8446
	24 bis(2-Chloroethoxy)methane	93	7.883	7.894	(0.958)	31270	2.00000	1.9086
	25 Benzoic acid	122	7.811	7.915	(0.950)	5090	2.00000	9.0828(H)
	26 2,4-Dichlorophenol	162	8.038	8.049	(0.977)	26531	2.00000	1.8485
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	33068	2.00000	1.8802
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1791614	40.0000	
	29 Naphthalene	128	8.245	8.256	(1.002)	82441	2.00000	1.9501
	30 4-Chloroaniline	127	8.308	8.318	(1.010)	32056	2.00000	1.8266
	31 Hexachlorobutadiene	225	8.432	8.442	(1.025)	21211	2.00000	1.8390
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	20216	2.00000	1.7803
	33 2-Methylnaphthalene	142	9.074	9.084	(1.103)	60953	2.00000	1.8720
	34 Hexachlorocyclopentadiene	237	9.343	9.353	(0.898)	9426	2.00000	1.0205
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.908)	20997	2.00000	1.7822
	36 2,4,5-Trichlorophenol	196	9.488	9.498	(0.912)	22027	2.00000	1.8904
$	37 2-Fluorobiphenyl	172	9.529	9.539	(0.915)	68835	2.00000	1.9880
	38 2-Chloronaphthalene	162	9.684	9.695	(0.930)	56528	2.00000	1.9180
	39 2-Nitroaniline	65	9.839	9.850	(0.945)	11741	2.00000	1.9377
	40 Dimethylphthalate	163	10.057	10.067	(0.966)	66232	2.00000	1.8566
	41 2,6-Dinitrotoluene	165	10.171	10.181	(0.977)	14667	2.00000	1.7013
	42 Acenaphthylene	152	10.222	10.233	(0.982)	90885	2.00000	1.9633
	43 3-Nitroaniline	138	10.347	10.367	(0.994)	14532	2.00000	1.7760
*	44 Acenaphthene-d10	164	10.409	10.419	(1.000)	1132432	40.0000	
	45 Acenaphthene	154	10.450	10.461	(1.004)	50717	2.00000	1.7817
	46 2,4-Dinitrophenol	184	10.471	10.492	(1.006)	1789	2.00000	7.0571(M)
	47 4-Nitrophenol	109	10.502	10.533	(1.009)	4335	2.00000	1.5725
	48 Dibenzofuran	168	10.636	10.647	(1.022)	84975	2.00000	1.9321
	49 2,4-Dinitrotoluene	165	10.657	10.678	(1.024)	18857	2.00000	1.7019
	50 Diethylphthalate	149	10.916	10.937	(1.049)	60872	2.00000	1.8378
	51 4-Chlorophenyl-phenylether	204	11.030	11.040	(1.060)	37217	2.00000	1.9065
	52 Fluorene	166	11.071	11.082	(1.064)	68989	2.00000	1.9302
	53 4-Nitroaniline	138	11.112	11.154	(1.068)	12681	2.00000	1.7673
	54 4,6-Dinitro-2-methylphenol	198	11.164	11.195	(0.911)	5814	2.00000	0.8858
	55 N-Nitrosodiphenylamine	169	11.185	11.206	(0.913)	44407	2.00000	1.9432
	56 Azobenzene	77	11.226	11.247	(0.916)	48894	2.00000	2.0934
$	57 2,4,6-Tribromophenol	330	11.402	11.413	(1.095)	12719	2.00000	1.4984
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.951)	24050	2.00000	1.7968
	59 Hexachlorobenzene	284	11.868	11.879	(0.969)	27361	2.00000	1.8396
	60 Pentachlorophenol	266	12.075	12.086	(0.986)	9668	2.00000	1.0129
*	61 Phenanthrene-d10	188	12.251	12.262	(1.000)	2085902	40.0000	
	62 Phenanthrene	178	12.282	12.293	(1.003)	95478	2.00000	1.9187
	63 Anthracene	178	12.334	12.344	(1.007)	99685	2.00000	1.9358
	64 Carbazole	167	12.520	12.531	(1.022)	85802	2.00000	2.1062
	65 Di-n-butylphthalate	149	12.924	12.924	(1.055)	120580	2.00000	2.0882
	66 Fluoranthene	202	13.773	13.783	(1.124)	125583	2.00000	1.9654
	67 Benzidine	184	13.907	13.907	(0.872)	17746	2.00000	2.5833(M)
	68 Pyrene	202	14.062	14.083	(0.882)	129624	2.00000	1.9079
$	69 Terphenyl-d14	244	14.207	14.218	(0.891)	106995	2.00000	1.8791
	70 Butylbenzylphthalate	149	14.870	14.880	(0.932)	51921	2.00000	1.8912
	71 3,3'-Dichlorobenzidine	252	15.822	15.853	(0.992)	49503	2.00000	1.9407
	72 Benzo(a)anthracene	228	15.894	15.915	(0.997)	136977	2.00000	1.9717
*	73 Chrysene-d12	240	15.946	15.957	(1.000)	2175557	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.812	15.822	(0.992)	74721	2.00000	1.8697
	75 Chrysene	228	15.977	16.008	(1.002)	114790	2.00000	1.8263

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Report Date: 07-Oct-2004 09:43

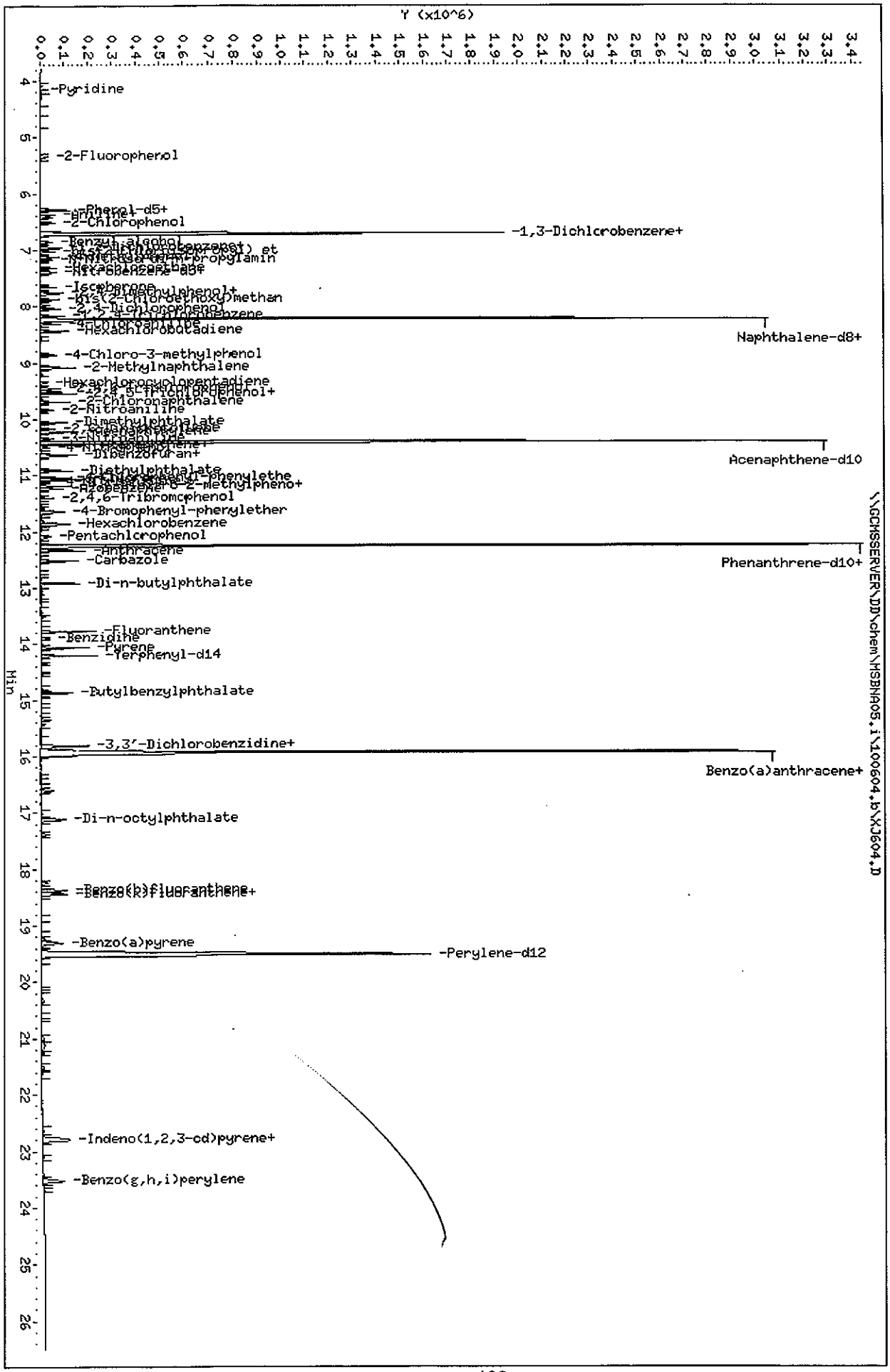
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
76 Di-n-octylphthalate	149	17.116	17.137	(0.877)	122977	2.00000	1.7438
77 Benzo(b)fluoranthene	252	18.368	18.431	(0.941)	127631	2.00000	7.5743(M)
78 Benzo(k)fluoranthene	252	18.430	18.503	(0.944)	136754	2.00000	2.1506(A)
79 Benzo(a)pyrene	252	19.310	19.372	(0.989)	118708	2.00000	1.8451
* 80 Perylene-d12	264	19.527	19.538	(1.000)	1994263	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.777	22.860	(1.166)	135979	2.00000	1.9796
82 Dibenz(a,h)anthracene	278	22.808	22.891	(1.168)	107583	2.00000	1.9220
83 Benzo(g,h,i)perylene	276	23.522	23.605	(1.205)	110159	2.00000	2.0697

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ604.D
Date : 06-OCT-2004 12:18
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1876
Volume Injected (uL): 1.0
Column phase: Mti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 12:56 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1857
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 12:56 Cal File: XJ605.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.085	4.075	(0.608)	120634	10.0000	9.1343
2 N-Nitrosodimethylamine	42	4.085	4.085	(0.608)	50058	10.0000	9.9137
$ 3 2-Fluorophenol	112	5.337	5.337	(0.795)	135718	10.0000	9.6959
$ 4 Phenol-d5	99	6.279	6.289	(0.935)	160750	10.0000	9.5714
5 Phenol	94	6.289	6.310	(0.937)	181589	10.0000	10.3206
6 Aniline	66	6.383	6.393	(0.951)	63471	10.0000	10.0037
7 bis(2-Chloroethyl)ether	63	6.414	6.424	(0.955)	94439	10.0000	10.0823
8 2-Chlorophenol	128	6.507	6.517	(0.969)	151229	10.0000	9.8105
9 1,3-Dichlorobenzene	146	6.672	6.683	(0.994)	187392	10.0000	9.8431
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	509225	40.0000	
11 1,4-Dichlorobenzene	146	6.734	6.735	(1.003)	188370	10.0000	10.0110
12 Benzyl alcohol	108	6.859	6.869	(1.022)	81074	10.0000	9.2390
13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	174564	10.0000	9.8280
14 2-Methylphenol	107	6.973	6.983	(1.039)	102523	10.0000	9.8358
15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	190243	10.0000	10.2089
16 4-Methylphenol	107	7.128	7.149	(1.062)	157279	10.0000	9.6953
17 N-Nitroso-di-n-propylamine	70	7.190	7.211	(1.071)	70347	10.0000	9.8788
18 Hexachloroethane	117	7.304	7.314	(1.088)	62879	10.0000	9.8093
$ 19 Nitrobenzene-d5	82	7.376	7.387	(0.897)	128966	10.0000	10.0002
20 Nitrobenzene	77	7.397	7.418	(0.899)	126192	10.0000	10.1530

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.656	7.666	(0.931)	230571	10.0000	9.9774
	22 2,4-Dimethylphenol	122	7.759	7.770	(0.943)	120331	10.0000	10.1503
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	84035	10.0000	9.8321
	24 bis(2-Chloroethoxy)methane	93	7.883	7.894	(0.958)	161680	10.0000	10.0182
	25 Benzoic acid	122	7.832	7.915	(0.952)	35572	10.0000	12.6524(H)
	26 2,4-Dichlorophenol	162	8.039	8.049	(0.977)	136895	10.0000	9.6824
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	169601	10.0000	9.7894
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1764894	40.0000	
	29 Naphthalene	128	8.246	8.256	(1.002)	417597	10.0000	10.0276
	30 4-Chloroaniline	127	8.308	8.318	(1.010)	165559	10.0000	9.5768
	31 Hexachlorobutadiene	225	8.432	8.442	(1.025)	113067	10.0000	9.9515
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	106903	10.0000	9.5572
	33 2-Methylnaphthalene	142	9.074	9.084	(1.103)	318660	10.0000	9.9350
	34 Hexachlorocyclopentadiene	237	9.343	9.353	(0.898)	73424	10.0000	7.9109
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.908)	113592	10.0000	9.5949
	36 2,4,5-Trichlorophenol	196	9.488	9.498	(0.912)	110724	10.0000	9.4567
$	37 2-Fluorobiphenyl	172	9.529	9.539	(0.915)	355221	10.0000	10.2097
	38 2-Chloronaphthalene	162	9.684	9.695	(0.930)	294493	10.0000	9.9439
	39 2-Nitroaniline	65	9.840	9.850	(0.945)	61069	10.0000	10.0302
	40 Dimethylphthalate	163	10.057	10.067	(0.966)	338141	10.0000	9.4328
	41 2,6-Dinitrotoluene	165	10.171	10.181	(0.977)	80566	10.0000	9.3003
	42 Acenaphthylene	152	10.223	10.233	(0.982)	463732	10.0000	9.9695
	43 3-Nitroaniline	138	10.357	10.367	(0.995)	75193	10.0000	9.1451
*	44 Acenaphthene-d10	164	10.409	10.419	(1.000)	1137937	40.0000	
	45 Acenaphthene	154	10.450	10.461	(1.004)	286002	10.0000	9.9991
	46 2,4-Dinitrophenol	184	10.471	10.492	(1.006)	29760	10.0000	11.6544
	47 4-Nitrophenol	109	10.502	10.533	(1.009)	24109	10.0000	8.7035
	48 Dibenzofuran	168	10.637	10.647	(1.022)	440989	10.0000	9.9783
	49 2,4-Dinitrotoluene	165	10.657	10.678	(1.024)	103355	10.0000	9.2830
	50 Diethylphthalate	149	10.916	10.937	(1.049)	319295	10.0000	9.5936
	51 4-Chlorophenyl-phenylether	204	11.030	11.040	(1.060)	193285	10.0000	9.8539
	52 Fluorene	166	11.071	11.082	(1.064)	356989	10.0000	9.9398
	53 4-Nitroaniline	138	11.123	11.154	(1.069)	67037	10.0000	9.2976
	54 4,6-Dinitro-2-methylphenol	198	11.164	11.195	(0.911)	55626	10.0000	8.4048
	55 N-Nitrosodiphenylamine	169	11.185	11.206	(0.913)	227049	10.0000	9.8527
	56 Azobenzene	77	11.226	11.247	(0.916)	244276	10.0000	10.3716
$	57 2,4,6-Tribromophenol	330	11.402	11.413	(1.095)	71642	10.0000	8.3993
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.951)	127339	10.0000	9.4346
	59 Hexachlorobenzene	284	11.868	11.879	(0.969)	145150	10.0000	9.6777
	60 Pentachlorophenol	266	12.075	12.086	(0.986)	74151	10.0000	7.7041
*	61 Phenanthrene-d10	188	12.251	12.262	(1.000)	2103453	40.0000	
	62 Phenanthrene	178	12.282	12.293	(1.003)	504539	10.0000	10.0547
	63 Anthracene	178	12.334	12.344	(1.007)	520958	10.0000	10.0325
	64 Carbazole	167	12.520	12.531	(1.022)	390789	10.0000	9.5130
	65 Di-n-butylphthalate	149	12.924	12.924	(1.055)	628763	10.0000	10.7984
	66 Fluoranthene	202	13.773	13.783	(1.124)	672844	10.0000	10.4423
	67 Benzidine	184	13.897	13.907	(0.871)	57750	10.0000	8.4133
	68 Pyrene	202	14.073	14.083	(0.883)	688358	10.0000	10.1395
$	69 Terphenyl-d14	244	14.207	14.218	(0.891)	563258	10.0000	9.8999
	70 Butylbenzylphthalate	149	14.870	14.880	(0.932)	269574	10.0000	9.8268
	71 3,3'-Dichlorobenzidine	252	15.822	15.853	(0.992)	242119	10.0000	9.4996
	72 Benzo(a)anthracene	228	15.894	15.915	(0.997)	679820	10.0000	9.7933
*	73 Chrysene-d12	240	15.946	15.957	(1.000)	2173882	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.812	15.822	(0.992)	396842	10.0000	9.9381

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Report Date: 07-Oct-2004 09:43

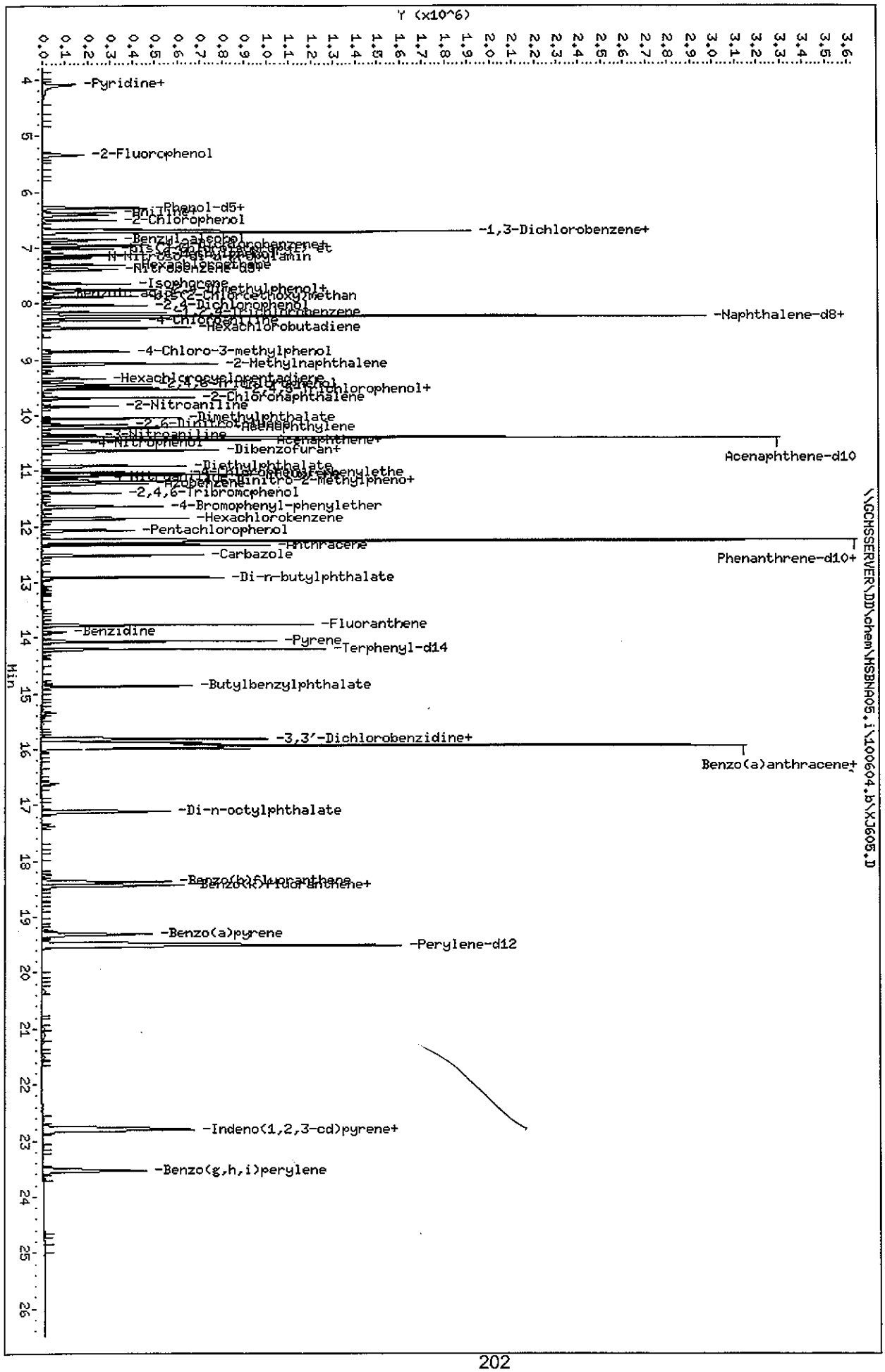
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	15.988	16.008	(1.003)	605015	10.0000	9.6335
76 Di-n-octylphthalate	149	17.116	17.137	(0.877)	658486	10.0000	9.4561
77 Benzo(b)fluoranthene	252	18.379	18.431	(0.942)	679355	10.0000	12.7390(M)
78 Benzo(k)fluoranthene	252	18.441	18.503	(0.945)	690358	10.0000	10.9944(A)
79 Benzo(a)pyrene	252	19.320	19.372	(0.990)	613548	10.0000	9.6578
* 80 Perylene-d12	264	19.517	19.538	(1.000)	1969300	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.788	22.860	(1.168)	717554	10.0000	10.5791
82 Dibenz(a,h)anthracene	278	22.819	22.891	(1.169)	572163	10.0000	10.3514
83 Benzo(g,h,i)perylene	276	23.543	23.605	(1.206)	585426	10.0000	11.1386

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCHSSERVER\DD\chem\MSBNA05.i\100604.b\XJ605.D
Date : 06-OCT-2004 12:56
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1857
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 13:33 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1858
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 13:33 Cal File: XJ606.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.075	4.075	(0.607)	272349	20.0000	19.7472
2 N-Nitrosodimethylamine	42	4.085	4.085	(0.608)	103396	20.0000	19.6082
$ 3 2-Fluorophenol	112	5.337	5.337	(0.795)	284444	20.0000	19.4591
$ 4 Phenol-d5	99	6.279	6.289	(0.935)	338174	20.0000	19.2815
5 Phenol	94	6.300	6.310	(0.938)	379199	20.0000	20.6375
6 Aniline	66	6.383	6.393	(0.951)	132831	20.0000	20.0474
7 bis(2-Chloroethyl)ether	63	6.414	6.424	(0.955)	188183	20.0000	19.2382
8 2-Chlorophenol	128	6.507	6.517	(0.969)	313620	20.0000	19.4820
9 1,3-Dichlorobenzene	146	6.672	6.683	(0.994)	388364	20.0000	19.5342
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	531785	40.0000	
11 1,4-Dichlorobenzene	146	6.735	6.735	(1.003)	390502	20.0000	19.8731
12 Benzyl alcohol	108	6.859	6.869	(1.022)	172901	20.0000	18.8676
13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	362995	20.0000	19.5698
14 2-Methylphenol	107	6.973	6.983	(1.039)	216835	20.0000	19.9201
15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	384812	20.0000	19.7740
16 4-Methylphenol	107	7.138	7.149	(1.063)	330193	20.0000	19.4909
17 N-Nitroso-di-n-propylamine	70	7.190	7.211	(1.071)	144853	20.0000	19.4788
18 Hexachloroethane	117	7.304	7.314	(1.088)	130259	20.0000	19.4588
$ 19 Nitrobenzene-d5	82	7.387	7.387	(0.898)	265427	20.0000	19.7793
20 Nitrobenzene	77	7.407	7.418	(0.901)	256990	20.0000	19.8706

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.656	7.666	(0.931)	479220	20.0000	19.9288
	22 2,4-Dimethylphenol	122	7.770	7.770	(0.945)	258390	20.0000	20.9463
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	178516	20.0000	20.0723
	24 bis(2-Chloroethoxy)methane	93	7.883	7.894	(0.958)	331265	20.0000	19.7260
	25 Benzoic acid	122	7.863	7.915	(0.956)	100425	20.0000	19.7709
	26 2,4-Dichlorophenol	162	8.039	8.049	(0.977)	291851	20.0000	19.8375
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	359249	20.0000	19.9276
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1836485	40.0000	
	29 Naphthalene	128	8.246	8.256	(1.002)	876791	20.0000	20.2334
	30 4-Chloroaniline	127	8.308	8.318	(1.010)	351809	20.0000	19.5572
	31 Hexachlorobutadiene	225	8.432	8.442	(1.025)	238831	20.0000	20.2012
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	229768	20.0000	19.7407
	33 2-Methylnaphthalene	142	9.084	9.084	(1.104)	683116	20.0000	20.4677
	34 Hexachlorocyclopentadiene	237	9.343	9.353	(0.897)	174764	20.0000	17.4737
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.907)	242441	20.0000	19.0041
	36 2,4,5-Trichlorophenol	196	9.498	9.498	(0.912)	239434	20.0000	18.9771
$	37 2-Fluorobiphenyl	172	9.529	9.539	(0.915)	744313	20.0000	19.8526
	38 2-Chloronaphthalene	162	9.695	9.695	(0.930)	629672	20.0000	19.7307
	39 2-Nitroaniline	65	9.840	9.850	(0.944)	126269	20.0000	19.2456
	40 Dimethylphthalate	163	10.057	10.067	(0.965)	732242	20.0000	18.9559
	41 2,6-Dinitrotoluene	165	10.171	10.181	(0.976)	175404	20.0000	18.7902
	42 Acenaphthylene	152	10.223	10.233	(0.981)	1001767	20.0000	19.9858
	43 3-Nitroaniline	138	10.357	10.367	(0.994)	159042	20.0000	17.9502
*	44 Acenaphthene-d10	164	10.419	10.419	(1.000)	1226232	40.0000	
	45 Acenaphthene	154	10.450	10.461	(1.003)	611072	20.0000	19.8258
	46 2,4-Dinitrophenol	184	10.481	10.492	(1.006)	85200	20.0000	19.7153
	47 4-Nitrophenol	109	10.512	10.533	(1.009)	55519	20.0000	18.5997
	48 Dibenzofuran	168	10.637	10.647	(1.021)	946231	20.0000	19.8689
	49 2,4-Dinitrotoluene	165	10.668	10.678	(1.024)	225635	20.0000	18.8066
	50 Diethylphthalate	149	10.926	10.937	(1.049)	701522	20.0000	19.5604
	51 4-Chlorophenyl-phenylether	204	11.040	11.040	(1.060)	416956	20.0000	19.7263
	52 Fluorene	166	11.071	11.082	(1.063)	756509	20.0000	19.5472
	53 4-Nitroaniline	138	11.133	11.154	(1.069)	141111	20.0000	18.1620
	54 4,6-Dinitro-2-methylphenol	198	11.175	11.195	(0.911)	137833	20.0000	19.6566
	55 N-Nitrosodiphenylamine	169	11.195	11.206	(0.913)	489500	20.0000	20.0490
	56 Azobenzene	77	11.237	11.247	(0.916)	503145	20.0000	20.1633
$	57 2,4,6-Tribromophenol	330	11.402	11.413	(1.094)	162675	20.0000	17.6989
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.950)	279051	20.0000	19.5142
	59 Hexachlorobenzene	284	11.868	11.879	(0.968)	322834	20.0000	20.3161
	60 Pentachlorophenol	266	12.075	12.086	(0.985)	181111	20.0000	17.7604
*	61 Phenanthrene-d10	188	12.262	12.262	(1.000)	2228579	40.0000	
	62 Phenanthrene	178	12.282	12.293	(1.002)	1095840	20.0000	20.6123
	63 Anthracene	178	12.334	12.344	(1.006)	1144068	20.0000	20.7953
	64 Carbazole	167	12.520	12.531	(1.021)	816896	20.0000	18.7693
	65 Di-n-butylphthalate	149	12.924	12.924	(1.054)	1388124	20.0000	22.5011
	66 Fluoranthene	202	13.783	13.783	(1.124)	1467955	20.0000	21.5030
	67 Benzidine	184	13.907	13.907	(0.872)	186118	20.0000	25.4772
	68 Pyrene	202	14.073	14.083	(0.883)	1491246	20.0000	20.6395
$	69 Terphenyl-d14	244	14.207	14.218	(0.891)	1223322	20.0000	20.2028
	70 Butylbenzylphthalate	149	14.880	14.880	(0.933)	578449	20.0000	19.8128
	71 3,3'-Dichlorobenzidine	252	15.832	15.853	(0.993)	515538	20.0000	19.0058
	72 Benzo(a)anthracene	228	15.894	15.915	(0.997)	1439054	20.0000	19.4787
*	73 Chrysene-d12	240	15.946	15.957	(1.000)	2313613	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.812	15.822	(0.992)	865128	20.0000	20.3569

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Report Date: 07-Oct-2004 09:43

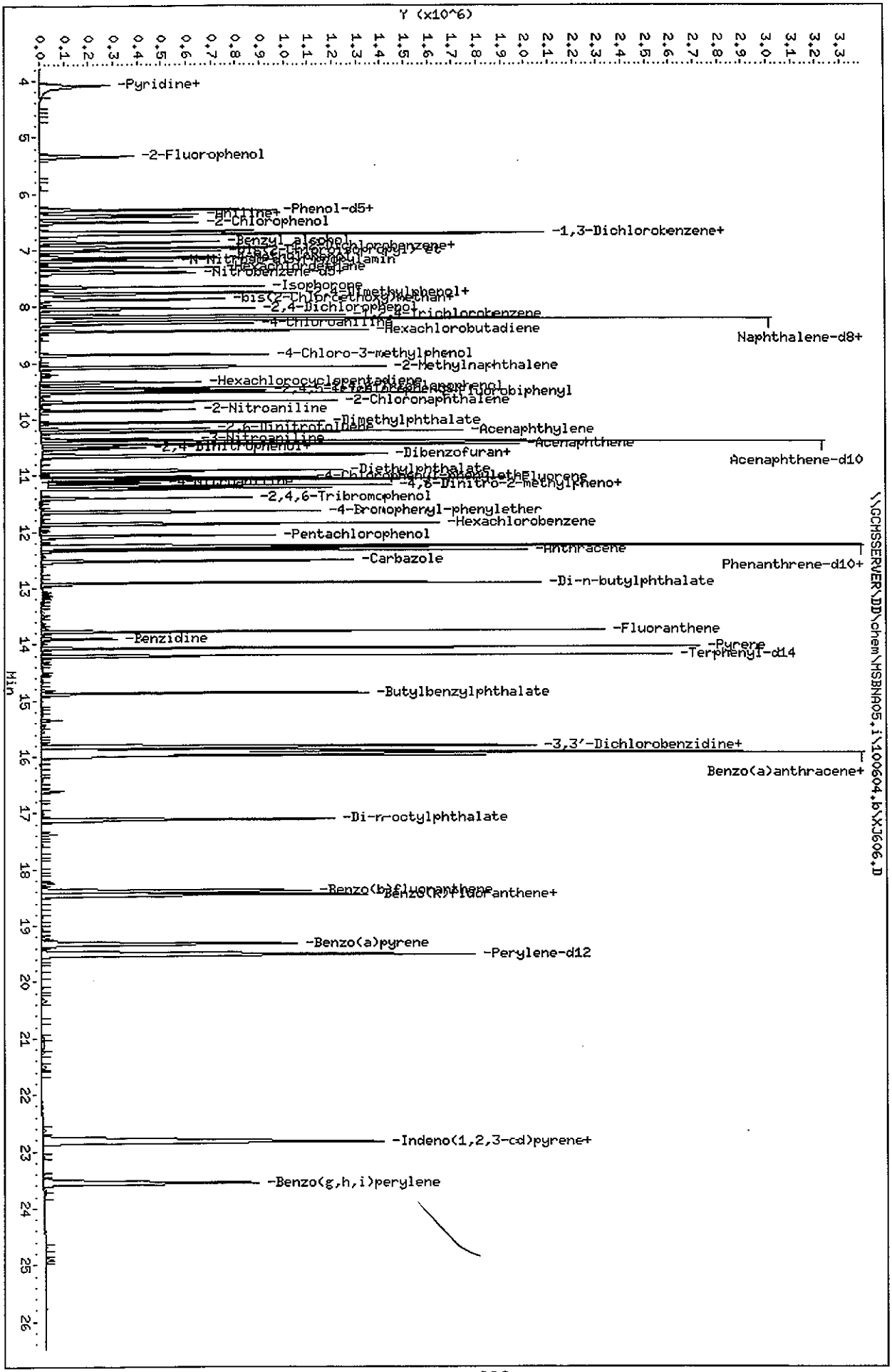
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	15.998	16.008	(1.003)	1316062	20.0000	19.6897
76 Di-n-octylphthalate	149	17.116	17.137	(0.877)	1401222	20.0000	18.8720
77 Benzo(b)fluoranthene	252	18.389	18.431	(0.942)	1441590	20.0000	19.0178 (M)
78 Benzo(k)fluoranthene	252	18.461	18.503	(0.945)	1503026	20.0000	22.4496 (A)
79 Benzo(a)pyrene	252	19.331	19.372	(0.990)	1306426	20.0000	19.2869
* 80 Perylene-d12	264	19.527	19.538	(1.000)	2099742	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.808	22.860	(1.168)	1525003	20.0000	21.0868
82 Dibenz(a,h)anthracene	278	22.839	22.891	(1.170)	1214245	20.0000	20.6032
83 Benzo(g,h,i)perylene	276	23.564	23.605	(1.207)	1231585	20.0000	21.9771

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ606.D
Date : 06-OCT-2004 13:33
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1858
Volume Injected (uL): 1.0
Column phase: Hti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 14:11 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1859
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 14:11 Cal File: XJ607.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.075	4.075	(0.607)	666172	50.0000	50.0106
2 N-Nitrosodimethylamine	42	4.085	4.085	(0.608)	257238	50.0000	50.5087
$ 3 2-Fluorophenol	112	5.337	5.337	(0.795)	704902	50.0000	49.9289
$ 4 Phenol-d5	99	6.289	6.289	(0.937)	856649	50.0000	50.5707
5 Phenol	94	6.310	6.310	(0.940)	883126	50.0000	49.7632
6 Aniline	66	6.393	6.393	(0.952)	317733	50.0000	49.6498
7 bis(2-Chloroethyl)ether	63	6.424	6.424	(0.957)	465216	50.0000	49.2419
8 2-Chlorophenol	128	6.517	6.517	(0.971)	770922	50.0000	49.5835
9 1,3-Dichlorobenzene	146	6.683	6.683	(0.995)	958162	50.0000	49.8991
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	513618	40.0000	
11 1,4-Dichlorobenzene	146	6.735	6.735	(1.003)	974897	50.0000	51.3685
12 Benzyl alcohol	108	6.869	6.869	(1.023)	438250	50.0000	49.5150
13 1,2-Dichlorobenzene	146	6.952	6.952	(1.035)	908347	50.0000	50.7031
14 2-Methylphenol	107	6.983	6.983	(1.040)	531207	50.0000	50.5269
15 bis(2-Chloroisopropyl) ether	45	7.024	7.024	(1.046)	947533	50.0000	50.4123
16 4-Methylphenol	107	7.149	7.149	(1.065)	809877	50.0000	49.4970
17 N-Nitroso-di-n-propylamine	70	7.211	7.211	(1.074)	365305	50.0000	50.8612
18 Hexachloroethane	117	7.314	7.314	(1.089)	329713	50.0000	50.9967
$ 19 Nitrobenzene-d5	82	7.387	7.387	(0.898)	657570	50.0000	50.0124
20 Nitrobenzene	77	7.418	7.418	(0.902)	635854	50.0000	50.1790

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.666	7.666	(0.932)	1176989	50.0000	49.9560
	22 2,4-Dimethylphenol	122	7.770	7.770	(0.945)	624428	50.0000	51.6635
	23 2-Nitrophenol	139	7.780	7.780	(0.946)	451665	50.0000	51.8330
	24 bis(2-Chloroethoxy)methane	93	7.894	7.894	(0.960)	841401	50.0000	51.1372
	25 Benzoic acid	122	7.914	7.914	(0.962)	357393	50.0000	49.4463
	26 2,4-Dichlorophenol	162	8.049	8.049	(0.979)	733803	50.0000	50.9067
	27 1,2,4-Trichlorobenzene	180	8.163	8.163	(0.992)	907655	50.0000	51.3866
*	28 Naphthalene-d8	136	8.225	8.225	(1.000)	1799361	40.0000	
	29 Naphthalene	128	8.256	8.256	(1.004)	2236529	50.0000	52.6766
	30 4-Chloroaniline	127	8.318	8.318	(1.011)	891868	50.0000	50.6022
	31 Hexachlorobutadiene	225	8.442	8.442	(1.026)	603187	50.0000	52.0724
	32 4-Chloro-3-methylphenol	107	8.856	8.856	(1.077)	579859	50.0000	50.8471
	33 2-Methylnaphthalene	142	9.084	9.084	(1.104)	1741801	50.0000	53.2650
	34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.898)	493103	50.0000	51.5425
	35 2,4,6-Trichlorophenol	196	9.446	9.446	(0.907)	621842	50.0000	50.9585
	36 2,4,5-Trichlorophenol	196	9.498	9.498	(0.912)	609763	50.0000	50.5244
$	37 2-Fluorobiphenyl	172	9.539	9.539	(0.916)	1887214	50.0000	52.6232
	38 2-Chloronaphthalene	162	9.695	9.695	(0.930)	1575845	50.0000	51.6222
	39 2-Nitroaniline	65	9.850	9.850	(0.945)	311946	50.0000	49.7060
	40 Dimethylphthalate	163	10.067	10.067	(0.966)	1886113	50.0000	51.0451
	41 2,6-Dinitrotoluene	165	10.181	10.181	(0.977)	452020	50.0000	50.6226
	42 Acenaphthylene	152	10.233	10.233	(0.982)	2517260	50.0000	52.5022
	43 3-Nitroaniline	138	10.367	10.367	(0.995)	426774	50.0000	50.3559
*	44 Acenaphthene-d10	164	10.419	10.419	(1.000)	1172946	40.0000	
	45 Acenaphthene	154	10.461	10.461	(1.004)	1552621	50.0000	52.6622
	46 2,4-Dinitrophenol	184	10.492	10.492	(1.007)	260785	50.0000	47.6896
	47 4-Nitrophenol	109	10.533	10.533	(1.011)	146254	50.0000	51.2233
	48 Dibenzofuran	168	10.647	10.647	(1.022)	2375707	50.0000	52.1513
	49 2,4-Dinitrotoluene	165	10.678	10.678	(1.025)	580020	50.0000	50.5409
	50 Diethylphthalate	149	10.937	10.937	(1.050)	1822703	50.0000	53.1311
	51 4-Chlorophenyl-phenylether	204	11.040	11.040	(1.060)	1059634	50.0000	52.4091
	52 Fluorene	166	11.082	11.082	(1.064)	1945822	50.0000	52.5618
	53 4-Nitroaniline	138	11.154	11.154	(1.071)	368014	50.0000	49.5180
	54 4,6-Dinitro-2-methylphenol	198	11.195	11.195	(0.913)	390146	50.0000	53.9128
	55 N-Nitrosodiphenylamine	169	11.206	11.206	(0.914)	1285747	50.0000	51.0274
	56 Azobenzene	77	11.247	11.247	(0.917)	1287801	50.0000	50.0065
$	57 2,4,6-Tribromophenol	330	11.413	11.413	(1.095)	446339	50.0000	50.7674
	58 4-Bromophenyl-phenylether	248	11.651	11.651	(0.950)	747785	50.0000	50.6703
	59 Hexachlorobenzene	284	11.879	11.879	(0.969)	876621	50.0000	53.4542
	60 Pentachlorophenol	266	12.086	12.086	(0.986)	512224	50.0000	48.6718
*	61 Phenanthrene-d10	188	12.262	12.262	(1.000)	2299959	40.0000	
	62 Phenanthrene	178	12.293	12.293	(1.003)	2894051	50.0000	52.7466
	63 Anthracene	178	12.344	12.344	(1.007)	3015832	50.0000	53.1163
	64 Carbazole	167	12.531	12.531	(1.022)	2248183	50.0000	50.0521
	65 Di-n-butylphthalate	149	12.924	12.924	(1.054)	3394739	50.0000	53.3201
	66 Fluoranthene	202	13.783	13.783	(1.124)	3824151	50.0000	54.2788
	67 Benzidine	184	13.907	13.907	(0.872)	416702	50.0000	58.8634
	68 Pyrene	202	14.083	14.083	(0.883)	3767208	50.0000	53.8054
$	69 Terphenyl-d14	244	14.218	14.218	(0.891)	3114422	50.0000	53.0768
	70 Butylbenzylphthalate	149	14.880	14.880	(0.933)	1486372	50.0000	52.5370
	71 3,3'-Dichlorobenzidine	252	15.853	15.853	(0.994)	1357912	50.0000	51.6599
	72 Benzo(a)anthracene	228	15.915	15.915	(0.997)	3631952	50.0000	50.7318
*	73 Chrysene-d12	240	15.957	15.957	(1.000)	2241994	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.822	15.822	(0.992)	2181798	50.0000	52.9788

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Report Date: 07-Oct-2004 09:43

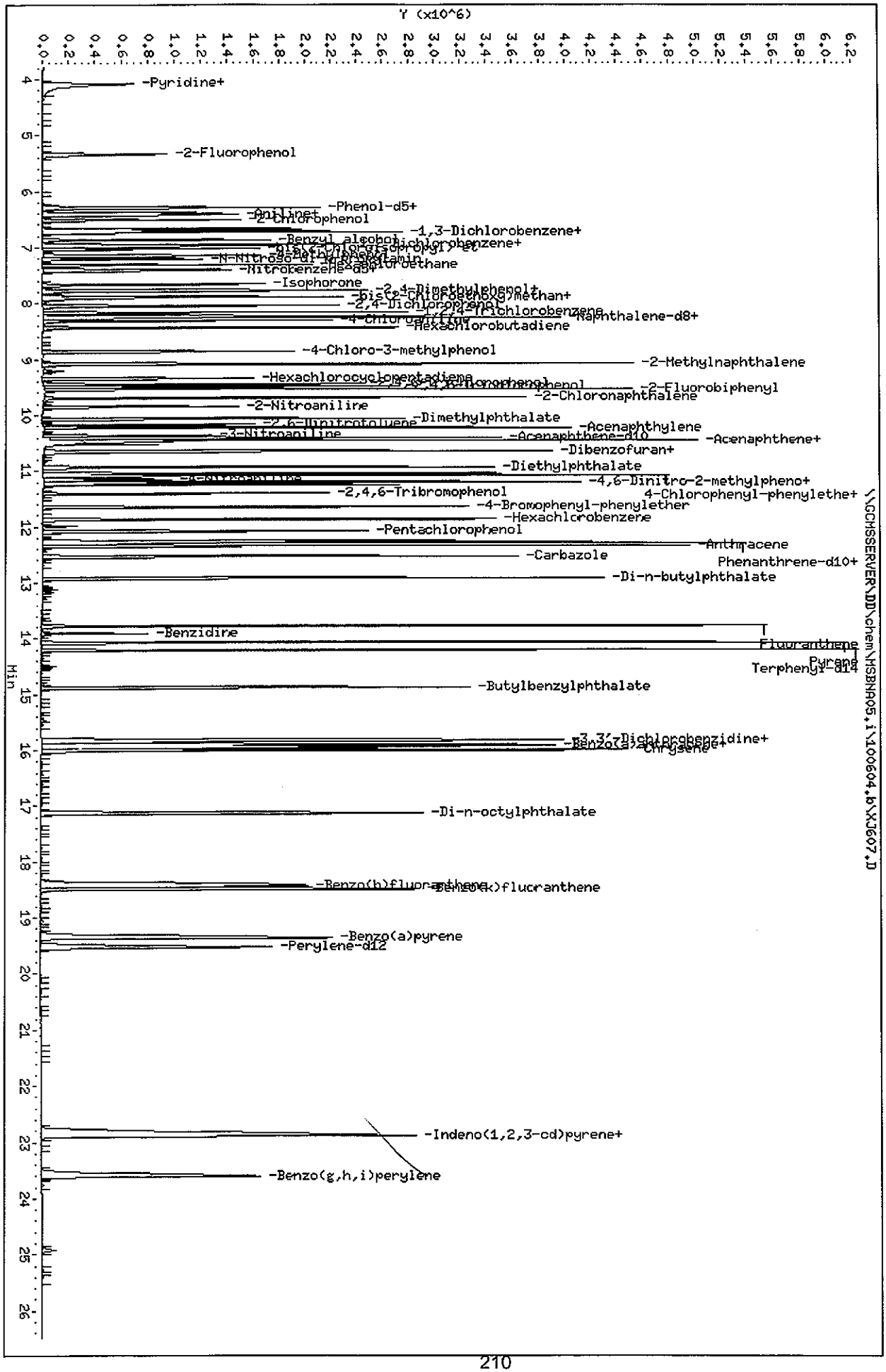
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.008	16.008	(1.003)	3407327	50.0000	52.6059
76 Di-n-octylphthalate	149	17.137	17.137	(0.877)	3598674	50.0000	51.0319
77 Benzo(b)fluoranthene	252	18.430	18.430	(0.943)	4095675	50.0000	44.1488
78 Benzo(k)fluoranthene	252	18.503	18.503	(0.947)	3390155	50.0000	53.3150(A)
79 Benzo(a)pyrene	252	19.372	19.372	(0.992)	3282668	50.0000	51.0260
* 80 Perylene-d12	264	19.538	19.538	(1.000)	1994248	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.860	22.860	(1.170)	3572111	50.0000	52.0059
82 Dibenz(a,h)anthracene	278	22.891	22.891	(1.172)	2911292	50.0000	52.0117
83 Benzo(g,h,i)perylene	276	23.605	23.605	(1.208)	2756682	50.0000	51.7941

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ607.D
Date : 06-OCT-2004 14:11
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1859
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 14:48 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1860
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 14:48 Cal File: XJ608.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.074	4.075	(0.607)	1139709	80.0000	82.8201
2 N-Nitrosodimethylamine	42	4.095	4.085	(0.610)	431027	80.0000	81.9222
$ 3 2-Fluorophenol	112	5.348	5.337	(0.797)	1179241	80.0000	80.8522
$ 4 Phenol-d5	99	6.300	6.289	(0.938)	1446132	80.0000	82.6361
5 Phenol	94	6.320	6.310	(0.941)	1453144	80.0000	79.2611
6 Aniline	66	6.403	6.393	(0.954)	531490	80.0000	80.3926
7 bis(2-Chloroethyl)ether	63	6.434	6.424	(0.958)	806694	80.0000	82.6523
8 2-Chlorophenol	128	6.517	6.517	(0.971)	1302256	80.0000	81.0753
9 1,3-Dichlorobenzene	146	6.683	6.683	(0.995)	1640799	80.0000	82.7131
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	530609	40.0000	
11 1,4-Dichlorobenzene	146	6.734	6.735	(1.003)	1598122	80.0000	81.5105
12 Benzyl alcohol	108	6.879	6.869	(1.025)	758647	80.0000	82.9699
13 1,2-Dichlorobenzene	146	6.962	6.952	(1.037)	1533720	80.0000	82.8695
14 2-Methylphenol	107	6.983	6.983	(1.040)	881563	80.0000	81.1667
15 bis(2-Chloroisopropyl) ether	45	7.035	7.024	(1.048)	1591840	80.0000	81.9798
16 4-Methylphenol	107	7.159	7.149	(1.066)	1365718	80.0000	80.7954
17 N-Nitroso-di-n-propylamine	70	7.221	7.211	(1.076)	590180	80.0000	79.5392
18 Hexachloroethane	117	7.314	7.314	(1.089)	558246	80.0000	83.5790
$ 19 Nitrobenzene-d5	82	7.397	7.387	(0.898)	1111522	80.0000	81.2712
20 Nitrobenzene	77	7.418	7.418	(0.901)	1076328	80.0000	81.6567

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.687	7.666	(0.933)	1976135	80.0000	80.6333
	22 2,4-Dimethylphenol	122	7.780	7.770	(0.945)	1017088	80.0000	80.8990
	23 2-Nitrophenol	139	7.790	7.780	(0.946)	749909	80.0000	82.7335
	24 bis(2-Chloroethoxy)methane	93	7.904	7.894	(0.960)	1410942	80.0000	82.4377
	25 Benzoic acid	122	7.966	7.914	(0.967)	622645	80.0000	77.0811
	26 2,4-Dichlorophenol	162	8.059	8.049	(0.979)	1226683	80.0000	81.8108
	27 1,2,4-Trichlorobenzene	180	8.173	8.163	(0.992)	1524548	80.0000	82.9760
*	28 Naphthalene-d8	136	8.235	8.225	(1.000)	1871698	40.0000	
	29 Naphthalene	128	8.266	8.256	(1.004)	3753480	80.0000	84.9885
	30 4-Chloroaniline	127	8.328	8.318	(1.011)	1523783	80.0000	83.1141
	31 Hexachlorobutadiene	225	8.442	8.442	(1.025)	1009682	80.0000	83.7959
	32 4-Chloro-3-methylphenol	107	8.867	8.856	(1.077)	970200	80.0000	81.7876
	33 2-Methylnaphthalene	142	9.094	9.084	(1.104)	2914030	80.0000	85.6683
	34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.898)	873284	80.0000	89.5325
	35 2,4,6-Trichlorophenol	196	9.457	9.446	(0.908)	1029006	80.0000	82.7088
	36 2,4,5-Trichlorophenol	196	9.508	9.498	(0.913)	1038447	80.0000	84.3960
$	37 2-Fluorobiphenyl	172	9.550	9.539	(0.917)	3135787	80.0000	85.7630
	38 2-Chloronaphthalene	162	9.705	9.695	(0.931)	2624439	80.0000	84.3250
	39 2-Nitroaniline	65	9.860	9.850	(0.946)	526485	80.0000	82.2834
	40 Dimethylphthalate	163	10.078	10.067	(0.967)	3192741	80.0000	84.7514
	41 2,6-Dinitrotoluene	165	10.202	10.181	(0.979)	787023	80.0000	86.4512
	42 Acenaphthylene	152	10.233	10.233	(0.982)	4170111	80.0000	85.3089
	43 3-Nitroaniline	138	10.388	10.367	(0.997)	728890	80.0000	84.3551
*	44 Acenaphthene-d10	164	10.419	10.419	(1.000)	1195862	40.0000	
	45 Acenaphthene	154	10.471	10.461	(1.005)	2610600	80.0000	86.8502
	46 2,4-Dinitrophenol	184	10.502	10.492	(1.008)	477714	80.0000	79.2074
	47 4-Nitrophenol	109	10.543	10.533	(1.012)	252088	80.0000	86.5982
	48 Dibenzofuran	168	10.657	10.647	(1.023)	3909972	80.0000	84.1866
	49 2,4-Dinitrotoluene	165	10.688	10.678	(1.026)	972315	80.0000	83.1006
	50 Diethylphthalate	149	10.947	10.937	(1.051)	2943523	80.0000	84.1583
	51 4-Chlorophenyl-phenylether	204	11.051	11.040	(1.061)	1769482	80.0000	85.8408
	52 Fluorene	166	11.092	11.082	(1.065)	3204461	80.0000	84.9022
	53 4-Nitroaniline	138	11.175	11.154	(1.073)	646024	80.0000	85.2599
	54 4,6-Dinitro-2-methylphenol	198	11.216	11.195	(0.915)	676426	80.0000	88.8761
	55 N-Nitrosodiphenylamine	169	11.227	11.206	(0.916)	2256984	80.0000	85.1681
	56 Azobenzene	77	11.258	11.247	(0.918)	2341995	80.0000	86.4697
$	57 2,4,6-Tribromophenol	330	11.423	11.413	(1.096)	790916	80.0000	88.2363
	58 4-Bromophenyl-phenylether	248	11.661	11.651	(0.951)	1271414	80.0000	81.9150
	59 Hexachlorobenzene	284	11.879	11.879	(0.969)	1432419	80.0000	83.0502
	60 Pentachlorophenol	266	12.096	12.086	(0.986)	904959	80.0000	81.7612
*	61 Phenanthrene-d10	188	12.262	12.262	(1.000)	2418911	40.0000	
	62 Phenanthrene	178	12.303	12.293	(1.003)	4760451	80.0000	82.4967
	63 Anthracene	178	12.355	12.344	(1.008)	4877280	80.0000	81.6768
	64 Carbazole	167	12.541	12.531	(1.023)	3920152	80.0000	82.9840
	65 Di-n-butylphthalate	149	12.934	12.924	(1.055)	5190136	80.0000	77.5111
	66 Fluoranthene	202	13.793	13.783	(1.125)	6018679	80.0000	81.2263
	67 Benzidine	184	13.918	13.907	(0.872)	555662	80.0000	76.5199
	68 Pyrene	202	14.094	14.083	(0.883)	6004473	80.0000	83.6037
$	69 Terphenyl-d14	244	14.228	14.218	(0.891)	5020916	80.0000	83.4169
	70 Butylbenzylphthalate	149	14.890	14.880	(0.933)	2415092	80.0000	83.2177
	71 3,3'-Dichlorobenzidine	252	15.874	15.853	(0.994)	2273223	80.0000	84.3079
	72 Benzo(a)anthracene	228	15.926	15.915	(0.997)	6036115	80.0000	82.1942
*	73 Chrysene-d12	240	15.967	15.957	(1.000)	2299803	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.832	15.822	(0.992)	3547464	80.0000	83.9749

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Report Date: 07-Oct-2004 09:43

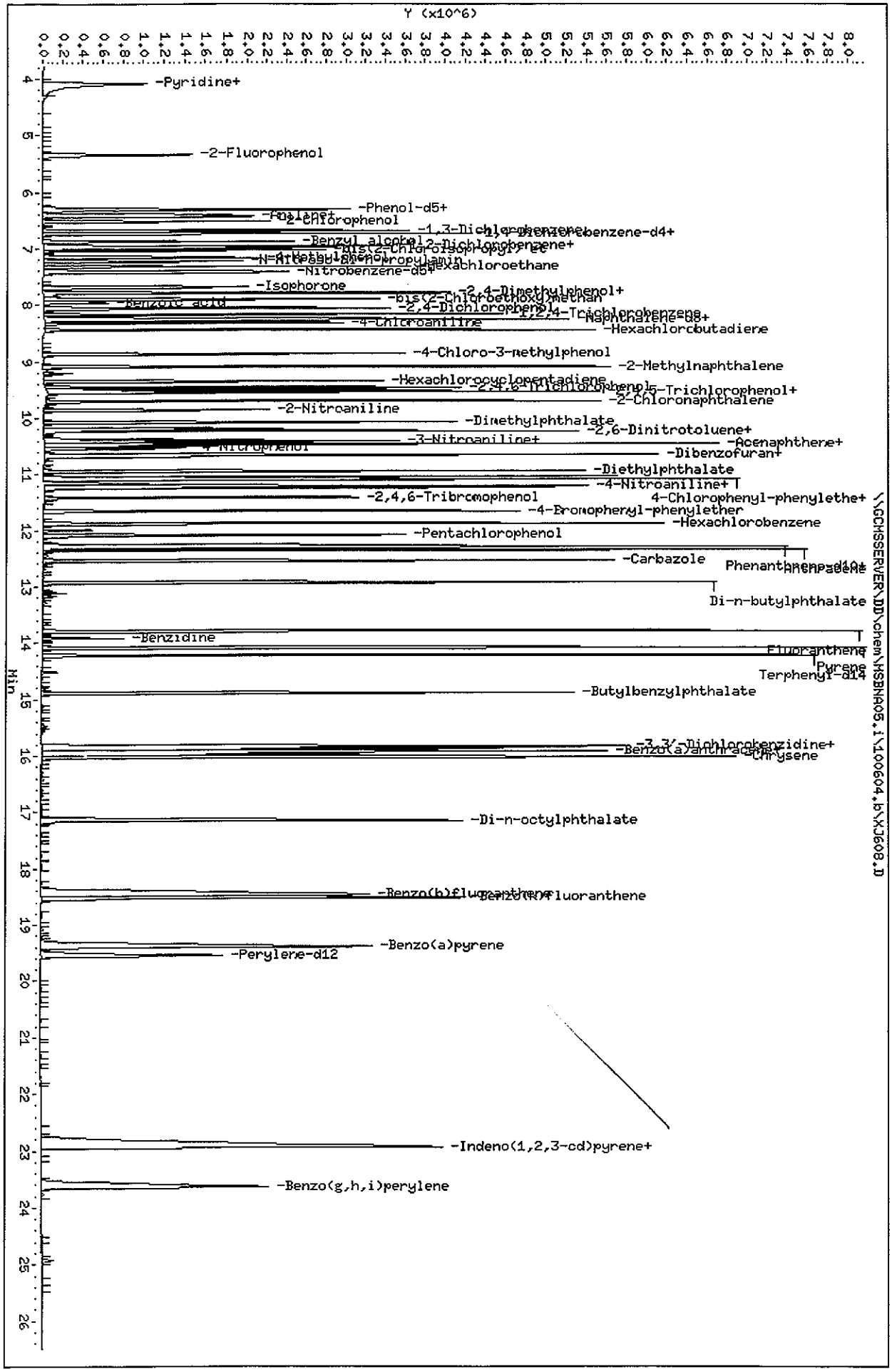
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.029	16.008	(1.004)	5610442	80.0000	84.4426
76 Di-n-octylphthalate	149	17.147	17.137	(0.877)	5886910	80.0000	83.6229
77 Benzo(b)fluoranthene	252	18.472	18.430	(0.945)	7338761	80.0000	74.1564
78 Benzo(k)fluoranthene	252	18.534	18.503	(0.948)	5128747	80.0000	80.7941(A)
79 Benzo(a)pyrene	252	19.393	19.372	(0.992)	5364246	80.0000	83.5242
* 80 Perylene-d12	264	19.548	19.538	(1.000)	1990859	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.912	22.860	(1.172)	5545076	80.0000	80.8675
82 Dibenz(a,h)anthracene	278	22.933	22.891	(1.173)	4584315	80.0000	82.0406
83 Benzo(g,h,i)perylene	276	23.636	23.605	(1.209)	4188962	80.0000	78.8386

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ608.D
Date : 06-OCT-2004 14:48
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1860
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Report Date: 07-Oct-2004 09:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 15:25 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1861
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 15:25 Cal File: XJ609.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 Pyridine	79	4.074	4.075	(0.606)	1757580	120.000	124.6089
	2 N-Nitrosodimethylamine	42	4.095	4.085	(0.609)	655544	120.000	121.5602
$	3 2-Fluorophenol	112	5.348	5.337	(0.795)	1845619	120.000	123.4592
$	4 Phenol-d5	99	6.320	6.289	(0.940)	2225988	120.000	124.1016
	5 Phenol	94	6.331	6.310	(0.942)	2221633	120.000	118.2269
	6 Aniline	66	6.414	6.393	(0.954)	824083	120.000	121.6142
	7 bis(2-Chloroethyl)ether	63	6.434	6.424	(0.957)	1239943	120.000	123.9482
	8 2-Chlorophenol	128	6.527	6.517	(0.971)	2035225	120.000	123.6224
	9 1,3-Dichlorobenzene	146	6.683	6.683	(0.994)	2493045	120.000	122.6145
*	10 1,4-Dichlorobenzene-d4	152	6.724	6.714	(1.000)	543854	40.0000	
	11 1,4-Dichlorobenzene	146	6.745	6.735	(1.003)	2404187	120.000	119.6367
	12 Benzyl alcohol	108	6.890	6.869	(1.025)	1189953	120.000	126.9706
	13 1,2-Dichlorobenzene	146	6.962	6.952	(1.035)	2325163	120.000	122.5729
	14 2-Methylphenol	107	6.993	6.983	(1.040)	1391506	120.000	124.9977
	15 bis(2-Chloroisopropyl) ether	45	7.035	7.024	(1.046)	2420328	120.000	121.6114
	16 4-Methylphenol	107	7.149	7.149	(1.063)	2151280	120.000	124.1696
	17 N-Nitroso-di-n-propylamine	70	7.242	7.211	(1.077)	947307	120.000	124.5603
	18 Hexachloroethane	117	7.314	7.314	(1.088)	834960	120.000	121.9634
$	19 Nitrobenzene-d5	82	7.407	7.387	(0.899)	1741356	120.000	121.4691
	20 Nitrobenzene	77	7.428	7.418	(0.902)	1665492	120.000	120.5450

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Report Date: 07-Oct-2004 09:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.697	7.666	(0.935)	3078811	120.000	119.8506
	22 2,4-Dimethylphenol	122	7.801	7.770	(0.947)	1535191	120.000	116.4948
	23 2-Nitrophenol	139	7.801	7.780	(0.947)	1140378	120.000	120.0276
	24 bis(2-Chloroethoxy)methane	93	7.914	7.894	(0.961)	2156681	120.000	120.2159
	25 Benzoic acid	122	8.008	7.914	(0.972)	1049450	120.000	118.7788
	26 2,4-Dichlorophenol	162	8.070	8.049	(0.980)	1907097	120.000	121.3418
	27 1,2,4-Trichlorobenzene	180	8.173	8.163	(0.992)	2333731	120.000	121.1774
*	28 Naphthalene-d8	136	8.235	8.225	(1.000)	1961897	40.0000	
	29 Naphthalene	128	8.266	8.256	(1.004)	5572247	120.000	120.3694
	30 4-Chloroaniline	127	8.328	8.318	(1.011)	2352619	120.000	122.4229
	31 Hexachlorobutadiene	225	8.442	8.442	(1.025)	1500622	120.000	118.8144
	32 4-Chloro-3-methylphenol	107	8.877	8.856	(1.078)	1513146	120.000	121.6933
	33 2-Methylnaphthalene	142	9.094	9.084	(1.104)	4295063	120.000	120.4634
	34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.897)	1381857	120.000	134.0713
	35 2,4,6-Trichlorophenol	196	9.467	9.446	(0.908)	1623567	120.000	123.4957
	36 2,4,5-Trichlorophenol	196	9.519	9.498	(0.913)	1628140	120.000	125.2209
$	37 2-Fluorobiphenyl	172	9.550	9.539	(0.916)	4623598	120.000	119.6688
	38 2-Chloronaphthalene	162	9.715	9.695	(0.932)	3995284	120.000	121.4829
	39 2-Nitroaniline	65	9.871	9.850	(0.946)	835624	120.000	123.5904
	40 Dimethylphthalate	163	10.088	10.067	(0.967)	4975391	120.000	124.9851
	41 2,6-Dinitrotoluene	165	10.212	10.181	(0.979)	1214181	120.000	126.2162
	42 Acenaphthylene	152	10.243	10.233	(0.982)	6274097	120.000	121.4634
	43 3-Nitroaniline	138	10.398	10.367	(0.997)	1202441	120.000	131.6925
*	44 Acenaphthene-d10	164	10.430	10.419	(1.000)	1263669	40.0000	
	45 Acenaphthene	154	10.471	10.461	(1.004)	3953340	120.000	124.4637
	46 2,4-Dinitrophenol	184	10.523	10.492	(1.009)	830055	120.000	123.2790
	47 4-Nitrophenol	109	10.564	10.533	(1.013)	393056	120.000	127.7788
	48 Dibenzofuran	168	10.668	10.647	(1.023)	5879614	120.000	119.8026
	49 2,4-Dinitrotoluene	165	10.709	10.678	(1.027)	1595990	120.000	129.0847
	50 Diethylphthalate	149	10.957	10.937	(1.051)	4620260	120.000	125.0097
	51 4-Chlorophenyl-phenylether	204	11.061	11.040	(1.061)	2623228	120.000	120.4292
	52 Fluorene	166	11.102	11.082	(1.065)	4840617	120.000	121.3703
	53 4-Nitroaniline	138	11.216	11.154	(1.075)	1058244	120.000	132.1690
	54 4,6-Dinitro-2-methylphenol	198	11.237	11.195	(0.916)	982973	120.000	125.9854
	55 N-Nitrosodiphenylamine	169	11.237	11.206	(0.916)	3288825	120.000	121.0607
	56 Azobenzene	77	11.268	11.247	(0.918)	3420117	120.000	123.1780
$	57 2,4,6-Tribromophenol	330	11.434	11.413	(1.096)	1258974	120.000	132.9173
	58 4-Bromophenyl-phenylether	248	11.661	11.651	(0.950)	2020622	120.000	126.9918
	59 Hexachlorobenzene	284	11.889	11.879	(0.969)	2065313	120.000	116.8074
	60 Pentachlorophenol	266	12.096	12.086	(0.986)	1434529	120.000	126.4275
*	61 Phenanthrene-d10	188	12.272	12.262	(1.000)	2479739	40.0000	
	62 Phenanthrene	178	12.313	12.293	(1.003)	6995914	120.000	118.2624
	63 Anthracene	178	12.365	12.344	(1.008)	7310287	120.000	119.4180
	64 Carbazole	167	12.551	12.531	(1.023)	6121953	120.000	126.4140
	65 Di-n-butylphthalate	149	12.945	12.924	(1.055)	7543456	120.000	109.8929
	66 Fluoranthene	202	13.804	13.783	(1.125)	8597002	120.000	113.1766
	67 Benzidine	184	13.918	13.907	(0.871)	668376	120.000	89.3497
	68 Pyrene	202	14.104	14.083	(0.883)	8693369	120.000	117.5025
$	69 Terphenyl-d14	244	14.228	14.218	(0.891)	7369444	120.000	118.8542
	70 Butylbenzylphthalate	149	14.901	14.880	(0.933)	3561674	120.000	119.1365
	71 3,3'-Dichlorobenzidine	252	15.894	15.853	(0.995)	3442083	120.000	123.9242
	72 Benzo(a)anthracene	228	15.946	15.915	(0.998)	9391623	120.000	124.1461
*	73 Chrysene-d12	240	15.977	15.957	(1.000)	2369093	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.843	15.822	(0.992)	5112703	120.000	117.4873

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Report Date: 07-Oct-2004 09:43

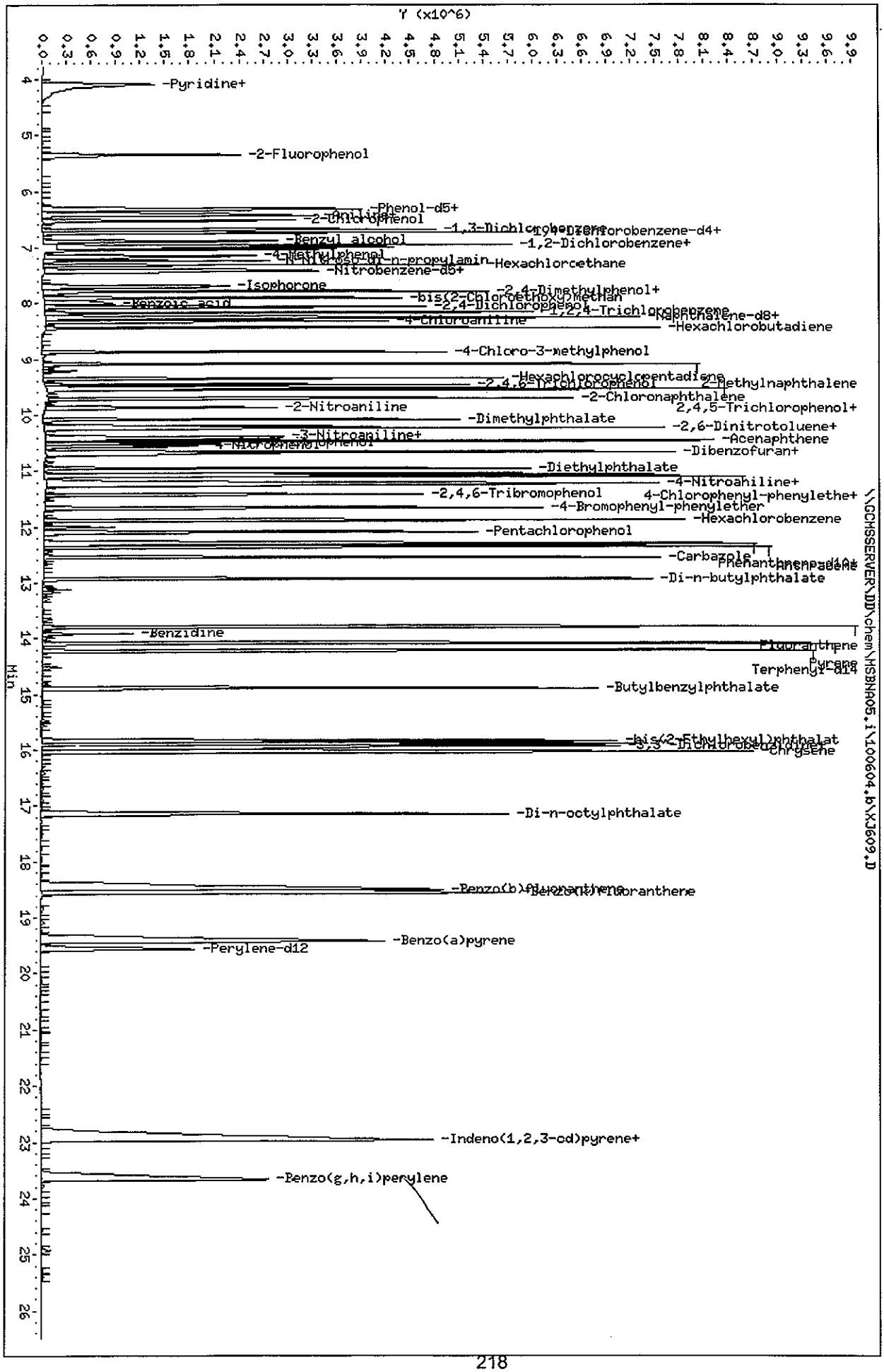
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.050	16.008	(1.005)	8546362	120.000	124.8690
76 Di-n-octylphthalate	149	17.157	17.137	(0.877)	8940610	120.000	124.0635
77 Benzo(b)fluoranthene	252	18.503	18.430	(0.946)	12802116	120.000	121.8658
78 Benzo(k)fluoranthene	252	18.565	18.503	(0.949)	6587972	120.000	101.3816(AH)
79 Benzo(a)pyrene	252	19.434	19.372	(0.993)	8266969	120.000	125.7444
* 80 Perylene-d12	264	19.569	19.538	(1.000)	2037989	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.964	22.860	(1.173)	8016908	120.000	114.2122
82 Dibenz(a,h)anthracene	278	22.974	22.891	(1.174)	6703440	120.000	117.1901
83 Benzo(g,h,i)perylene	276	23.678	23.605	(1.210)	5833043	120.000	107.2424

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ609.D
Date : 06-OCT-2004 15:25
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1861
Volume Injected (uL): 1.0
Column phase: Hti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Report Date: 07-Oct-2004 09:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 16:01 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICAL,04WS1862
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 16:01 Cal File: XJ610.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	4.085	4.075	(0.608)	2408125	160.000	164.0531
2 N-Nitrosodimethylamine	42	4.105	4.085	(0.611)	880911	160.000	156.9614
$ 3 2-Fluorophenol	112	5.347	5.337	(0.795)	2537495	160.000	163.1015
$ 4 Phenol-d5	99	6.331	6.289	(0.942)	2987406	160.000	160.0368
5 Phenol	94	6.351	6.310	(0.945)	3018875	160.000	154.3691
6 Aniline	66	6.424	6.393	(0.955)	1112414	160.000	157.7434
7 bis(2-Chloroethyl)ether	63	6.445	6.424	(0.958)	1630696	160.000	156.6328
8 2-Chlorophenol	128	6.538	6.517	(0.972)	2767508	160.000	161.5269
9 1,3-Dichlorobenzene	146	6.693	6.683	(0.995)	3335790	160.000	157.6455
* 10 1,4-Dichlorobenzene-d4	152	6.724	6.714	(1.000)	565993	40.0000	
11 1,4-Dichlorobenzene	146	6.745	6.735	(1.003)	3219087	160.000	153.9218
12 Benzyl alcohol	108	6.910	6.869	(1.028)	1634197	160.000	167.5518
13 1,2-Dichlorobenzene	146	6.962	6.952	(1.035)	3055476	160.000	154.7716
14 2-Methylphenol	107	7.003	6.983	(1.042)	1767724	160.000	152.5818
15 bis(2-Chloroisopropyl) ether	45	7.045	7.024	(1.048)	3128322	160.000	151.0368
16 4-Methylphenol	107	7.159	7.149	(1.065)	2946318	160.000	163.4064
17 N-Nitroso-di-n-propylamine	70	7.252	7.211	(1.078)	1252063	160.000	158.1927
18 Hexachloroethane	117	7.314	7.314	(1.088)	1100141	160.000	154.4129
$ 19 Nitrobenzene-d5	82	7.417	7.387	(0.900)	2335973	160.000	157.2193
20 Nitrobenzene	77	7.438	7.418	(0.902)	2204844	160.000	153.9729

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Report Date: 07-Oct-2004 09:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.738	7.666	(0.938)	4260029	160.000	160.0035(M)
	22 2,4-Dimethylphenol	122	7.811	7.770	(0.947)	2015635	160.000	147.5760
	23 2-Nitrophenol	139	7.800	7.780	(0.946)	1484314	160.000	150.7363
	24 bis(2-Chloroethoxy)methane	93	7.925	7.894	(0.961)	2846636	160.000	153.0974
	25 Benzoic acid	122	8.049	7.914	(0.976)	1516627	160.000	162.2701
	26 2,4-Dichlorophenol	162	8.080	8.049	(0.980)	2574829	160.000	158.0687
	27 1,2,4-Trichlorobenzene	180	8.183	8.163	(0.992)	3033761	160.000	151.9889
*	28 Naphthalene-d8	136	8.245	8.225	(1.000)	2033371	40.0000	
	29 Naphthalene	128	8.277	8.256	(1.004)	6843978	160.000	142.6442
	30 4-Chloroaniline	127	8.339	8.318	(1.011)	3165381	160.000	158.9267
	31 Hexachlorobutadiene	225	8.452	8.442	(1.025)	1917988	160.000	146.5222
	32 4-Chloro-3-methylphenol	107	8.887	8.856	(1.078)	2069844	160.000	160.6138
	33 2-Methylnaphthalene	142	9.105	9.084	(1.104)	5363126	160.000	145.1320
	34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.897)	1867258	160.000	170.8726
	35 2,4,6-Trichlorophenol	196	9.467	9.446	(0.908)	2248325	160.000	161.3006
	36 2,4,5-Trichlorophenol	196	9.529	9.498	(0.914)	2197982	160.000	159.4427
$	37 2-Fluorobiphenyl	172	9.560	9.539	(0.917)	5667150	160.000	138.3442
	38 2-Chloronaphthalene	162	9.715	9.695	(0.932)	5133834	160.000	147.2329
	39 2-Nitroaniline	65	9.881	9.850	(0.947)	1126453	160.000	157.1384
	40 Dimethylphthalate	163	10.098	10.067	(0.968)	6665659	160.000	157.9318
	41 2,6-Dinitrotoluene	165	10.222	10.181	(0.980)	1608331	160.000	157.6894
	42 Acenaphthylene	152	10.253	10.233	(0.983)	7828912	160.000	142.9523
	43 3-Nitroaniline	138	10.419	10.367	(0.999)	1593800	160.000	164.6366
*	44 Acenaphthene-d10	164	10.429	10.419	(1.000)	1339794	40.0000	
	45 Acenaphthene	154	10.481	10.461	(1.005)	5074812	160.000	150.6932
	46 2,4-Dinitrophenol	184	10.533	10.492	(1.010)	1167511	160.000	158.4541
	47 4-Nitrophenol	109	10.585	10.533	(1.015)	536370	160.000	164.4615
	48 Dibenzofuran	168	10.678	10.647	(1.024)	7617747	160.000	146.3994
	49 2,4-Dinitrotoluene	165	10.719	10.678	(1.028)	2110138	160.000	160.9722
	50 Diethylphthalate	149	10.978	10.937	(1.053)	5681973	160.000	145.0013
	51 4-Chlorophenyl-phenylether	204	11.071	11.040	(1.062)	3338617	160.000	144.5631
	52 Fluorene	166	11.112	11.082	(1.065)	6356975	160.000	150.3341
	53 4-Nitroaniline	138	11.237	11.154	(1.077)	1364514	160.000	160.7375(H)
	54 4,6-Dinitro-2-methylphenol	198	11.257	11.195	(0.917)	1212349	160.000	150.0150
	55 N-Nitrosodiphenylamine	169	11.237	11.206	(0.915)	4134362	160.000	146.9261
	56 Azobenzene	77	11.278	11.247	(0.918)	3898316	160.000	135.5493
$	57 2,4,6-Tribromophenol	330	11.444	11.413	(1.097)	1685797	160.000	167.8670
	58 4-Bromophenyl-phenylether	248	11.671	11.651	(0.950)	2597948	160.000	157.6338
	59 Hexachlorobenzene	284	11.899	11.879	(0.969)	2742166	160.000	149.7291
	60 Pentachlorophenol	266	12.106	12.086	(0.986)	1998831	160.000	170.0734
*	61 Phenanthrene-d10	188	12.282	12.262	(1.000)	2568490	40.0000	
	62 Phenanthrene	178	12.323	12.293	(1.003)	9145596	160.000	149.2597
	63 Anthracene	178	12.375	12.344	(1.008)	9238163	160.000	145.6965
	64 Carbazole	167	12.562	12.531	(1.023)	8173668	160.000	162.9485
	65 Di-n-butylphthalate	149	12.944	12.924	(1.054)	9601780	160.000	135.0452
	66 Fluoranthene	202	13.814	13.783	(1.125)	10749054	160.000	136.6180
	67 Benzidine	184	13.928	13.907	(0.871)	885797	160.000	114.3629
	68 Pyrene	202	14.114	14.083	(0.883)	11028442	160.000	143.9632
$	69 Terphenyl-d14	244	14.238	14.218	(0.891)	9297979	160.000	144.8260
	70 Butylbenzylphthalate	149	14.911	14.880	(0.933)	4670009	160.000	150.8644
	71 3,3'-Dichlorobenzidine	252	15.915	15.853	(0.995)	4509496	160.000	156.7982
	72 Benzo(a)anthracene	228	15.956	15.915	(0.998)	12335206	160.000	157.4771
*	73 Chrysene-d12	240	15.987	15.957	(1.000)	2453035	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.863	15.822	(0.992)	6488602	160.000	144.0024

10/4/04

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Report Date: 07-Oct-2004 09:44

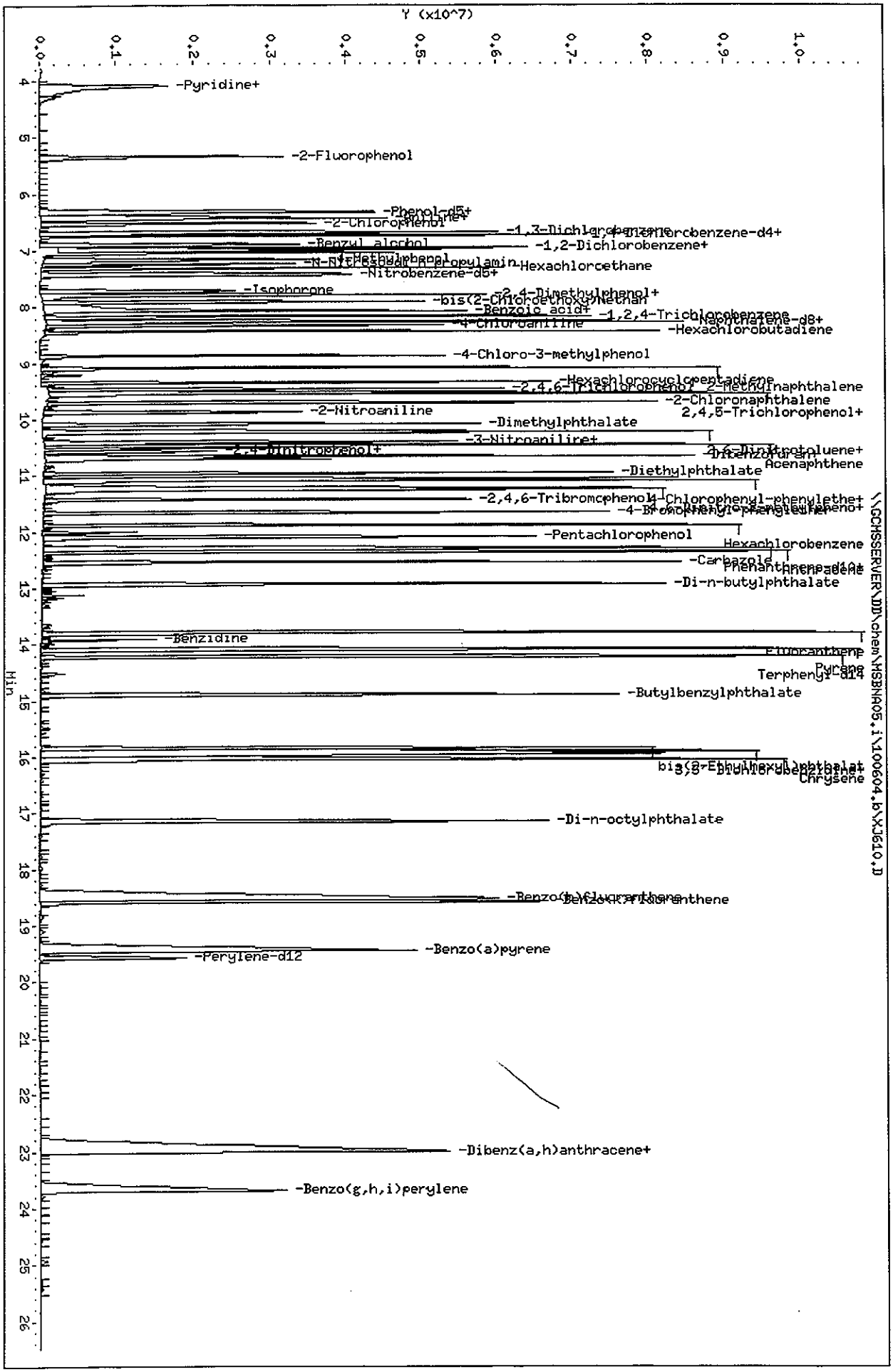
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	16.070	16.008	(1.005)	11233849	160.000	158.5186
76 Di-n-octylphthalate	149	17.167	17.137	(0.877)	11718494	160.000	161.7589
77 Benzo(b)fluoranthene	252	18.544	18.430	(0.947)	17398130	160.000	162.4974
78 Benzo(k)fluoranthene	252	18.606	18.503	(0.950)	8170021	160.000	125.0691(AMH)
79 Benzo(a)pyrene	252	19.455	19.372	(0.994)	10942720	160.000	165.5721
* 80 Perylene-d12	264	19.579	19.538	(1.000)	2048719	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	23.015	22.860	(1.176)	10106430	160.000	143.2263(M)
82 Dibenz(a,h)anthracene	278	23.005	22.891	(1.175)	8568850	160.000	149.0167
83 Benzo(g,h,i)perylene	276	23.698	23.605	(1.210)	7325602	160.000	133.9782

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ610.D
Date : 06-OCT-2004 16:01
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1862
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA05 Calname : 6PTBNA5
Calnum : 544403805004 Caldate : 06-OCT-2004 Caltype :

ICV 544403805011 (xj611) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodimethylamine	P	544403805011	06-OCT-2004	80.000	81.477	ng	2	30	
Pyridine	P	544403805011	06-OCT-2004	80.000	91.904	ng	15	30	
Phenol	P	544403805011	06-OCT-2004	80.000	81.854	ng	2	20	
Aniline	P	544403805011	06-OCT-2004	80.000	75.850	ng	-5	30	
bis(2-Chloroethyl)ether	P	544403805011	06-OCT-2004	80.000	84.232	ng	5	30	
2-Chlorophenol	P	544403805011	06-OCT-2004	80.000	82.675	ng	3	30	
1,3-Dichlorobenzene	P	544403805011	06-OCT-2004	80.000	85.610	ng	7	30	
1,4-Dichlorobenzene	P	544403805011	06-OCT-2004	80.000	83.157	ng	4	20	
Benzyl alcohol	P	544403805011	06-OCT-2004	80.000	89.205	ng	12	30	
1,2-Dichlorobenzene	P	544403805011	06-OCT-2004	80.000	83.453	ng	4	30	
2-Methylphenol	P	544403805011	06-OCT-2004	80.000	78.750	ng	-2	30	
bis(2-Chloroisopropyl) ether	P	544403805011	06-OCT-2004	80.000	78.878	ng	-1	30	
4-Methylphenol	P	544403805011	06-OCT-2004	80.000	84.824	ng	6	30	
N-Nitroso-di-n-propylamine	P	544403805011	06-OCT-2004	80.000	85.055	ng	6	30	
Hexachloroethane	P	544403805011	06-OCT-2004	80.000	87.830	ng	10	30	
Nitrobenzene	P	544403805011	06-OCT-2004	80.000	82.707	ng	3	30	
Isophorone	P	544403805011	06-OCT-2004	80.000	86.484	ng	8	30	
2-Nitrophenol	P	544403805011	06-OCT-2004	80.000	87.185	ng	9	20	
2,4-Dimethylphenol	P	544403805011	06-OCT-2004	80.000	85.631	ng	7	30	
bis(2-Chloroethoxy)methane	P	544403805011	06-OCT-2004	80.000	81.612	ng	2	30	
Benzoic acid	P	544403805011	06-OCT-2004	80.000	114.36	ng	**43**	40	v+ ***
2,4-Dichlorophenol	P	544403805011	06-OCT-2004	80.000	85.440	ng	7	20	
1,2,4-Trichlorobenzene	P	544403805011	06-OCT-2004	80.000	85.818	ng	7	30	
Naphthalene	P	544403805011	06-OCT-2004	80.000	88.096	ng	10	30	
4-Chloroaniline	P	544403805011	06-OCT-2004	80.000	83.186	ng	4	30	
Hexachlorobutadiene	P	544403805011	06-OCT-2004	80.000	85.073	ng	6	20	
4-Chloro-3-methylphenol	P	544403805011	06-OCT-2004	80.000	88.365	ng	10	20	
2-Methylnaphthalene	P	544403805011	06-OCT-2004	80.000	88.672	ng	11	30	
Hexachlorocyclopentadiene	P	544403805011	06-OCT-2004	80.000	98.369	ng	23	40	
2,4,6-Trichlorophenol	P	544403805011	06-OCT-2004	80.000	87.794	ng	10	20	
2,4,5-Trichlorophenol	P	544403805011	06-OCT-2004	80.000	92.981	ng	16	30	
2-Chloronaphthalene	P	544403805011	06-OCT-2004	80.000	89.970	ng	12	30	
2-Nitroaniline	P	544403805011	06-OCT-2004	80.000	83.894	ng	5	30	
Dimethylphthalate	P	544403805011	06-OCT-2004	80.000	85.508	ng	7	30	
2,6-Dinitrotoluene	P	544403805011	06-OCT-2004	80.000	89.081	ng	11	30	
Acenaphthylene	P	544403805011	06-OCT-2004	80.000	89.234	ng	12	30	
3-Nitroaniline	P	544403805011	06-OCT-2004	80.000	84.052	ng	5	30	
Acenaphthene	P	544403805011	06-OCT-2004	80.000	89.873	ng	12	20	
2,4-Dinitrophenol	P	544403805011	06-OCT-2004	80.000	86.995	ng	9	40	
4-Nitrophenol	P	544403805011	06-OCT-2004	80.000	102.51	ng	28	40	
Dibenzofuran	P	544403805011	06-OCT-2004	80.000	87.548	ng	9	30	
2,4-Dinitrotoluene	P	544403805011	06-OCT-2004	80.000	86.864	ng	9	30	
Diethylphthalate	P	544403805011	06-OCT-2004	80.000	87.254	ng	9	30	
Fluorene	P	544403805011	06-OCT-2004	80.000	88.707	ng	11	30	
4-Chlorophenyl-phenylether	P	544403805011	06-OCT-2004	80.000	88.595	ng	11	40	
4-Nitroaniline	P	544403805011	06-OCT-2004	80.000	64.096	ng	-20	30	
4,6-Dinitro-2-methylphenol	P	544403805011	06-OCT-2004	80.000	103.48	ng	**29**	30	!v+

!=warning +=high bias -=low bias v=ICV
Page 1 of 2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : MSBNA05 Calname : 6PTBNA5
Calnum : 544403805004 Caldate : 06-OCT-2004 Caltype :

ICV 544403805011 (xj611) standards: 04WS1724

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
N-Nitrosodiphenylamine	P	544403805011	06-OCT-2004	80.000	92.166	ng	15	20	
Azobenzene	P	544403805011	06-OCT-2004	80.000	88.824	ng	11	30	
4-Bromophenyl-phenylether	P	544403805011	06-OCT-2004	80.000	86.789	ng	8	30	
Hexachlorobenzene	P	544403805011	06-OCT-2004	80.000	86.513	ng	8	30	
Pentachlorophenol	P	544403805011	06-OCT-2004	80.000	93.824	ng	17	20	
Phenanthrene	P	544403805011	06-OCT-2004	80.000	89.144	ng	11	30	
Anthracene	P	544403805011	06-OCT-2004	80.000	85.387	ng	7	30	
Carbazole	P	544403805011	06-OCT-2004	80.000	60.669	ng	-24	30	!v-
Di-n-butylphthalate	P	544403805011	06-OCT-2004	80.000	80.182	ng	0	30	
Fluoranthene	P	544403805011	06-OCT-2004	80.000	86.406	ng	8	20	
Benzidine	P	544403805011	06-OCT-2004	80.000	22.862	ng	-71	40	v- ***
Pyrene	P	544403805011	06-OCT-2004	80.000	85.835	ng	7	30	
Butylbenzylphthalate	P	544403805011	06-OCT-2004	80.000	84.248	ng	5	30	
3,3'-Dichlorobenzidine	P	544403805011	06-OCT-2004	80.000	76.976	ng	-4	40	
Benzo(a)anthracene	P	544403805011	06-OCT-2004	80.000	85.765	ng	7	30	
bis(2-Ethylhexyl)phthalate	P	544403805011	06-OCT-2004	80.000	84.740	ng	6	30	
Chrysene	P	544403805011	06-OCT-2004	80.000	87.518	ng	9	30	
Di-n-octylphthalate	P	544403805011	06-OCT-2004	80.000	86.411	ng	8	20	
Benzo(b)fluoranthene	P	544403805011	06-OCT-2004	80.000	104.62	ng	31	30	v+ ***
Benzo(k)fluoranthene	P	544403805011	06-OCT-2004	80.000	85.394	ng	7	30	
Benzo(a)pyrene	P	544403805011	06-OCT-2004	80.000	90.670	ng	13	20	
Indeno(1,2,3-cd)pyrene	P	544403805011	06-OCT-2004	80.000	84.639	ng	6	30	
Dibenz(a,h)anthracene	P	544403805011	06-OCT-2004	80.000	89.799	ng	12	30	
Benzo(g,h,i)perylene	P	544403805011	06-OCT-2004	80.000	81.361	ng	2	30	
2-Fluorophenol	P	544403805011	06-OCT-2004	80.000	81.812	ng	2	30	
Phenol-d5	P	544403805011	06-OCT-2004	80.000	82.691	ng	3	30	
Nitrobenzene-d5	P	544403805011	06-OCT-2004	80.000	83.114	ng	4	30	
2-Fluorobiphenyl	P	544403805011	06-OCT-2004	80.000	89.292	ng	12	30	
2,4,6-Tribromophenol	P	544403805011	06-OCT-2004	80.000	88.722	ng	11	30	
Terphenyl-d14	P	544403805011	06-OCT-2004	80.000	82.323	ng	3	30	

!=warning +=high bias -=low bias v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ611.D
Report Date: 07-Oct-2004 09:47

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ611.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 06-OCT-2004 16:38 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : ICV,04WS1724
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\6PTBNA5.m
Meth Date : 07-Oct-2004 09:43 target Quant Type: ISTD
Cal Date : 06-OCT-2004 16:01 Cal File: XJ610.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 Pyridine	79	4.075	4.075	(0.607)	1208494	91.9036	91.9036
2 N-Nitrosodimethylamine	42	4.085	4.085	(0.608)	409628	81.4767	81.4766
$ 3 2-Fluorophenol	112	5.348	5.337	(0.797)	1140204	81.8122	81.8121
$ 4 Phenol-d5	99	6.310	6.289	(0.940)	1382776	82.6914	82.6913
5 Phenol	94	6.321	6.310	(0.941)	1433975	81.8539	81.8539
6 Aniline	66	6.393	6.393	(0.952)	479170	75.8503	75.8502
7 bis(2-Chloroethyl)ether	63	6.434	6.424	(0.958)	785565	84.2315	84.2315
8 2-Chlorophenol	128	6.528	6.517	(0.972)	1268917	82.6746	82.6745
9 1,3-Dichlorobenzene	146	6.683	6.683	(0.995)	1622776	85.6099	85.6099
* 10 1,4-Dichlorobenzene-d4	152	6.714	6.714	(1.000)	507024	40.0000	
11 1,4-Dichlorobenzene	146	6.735	6.735	(1.003)	1557937	83.1572	83.1572
12 Benzyl alcohol	108	6.879	6.869	(1.025)	779403	89.2050	89.2050
13 1,2-Dichlorobenzene	146	6.962	6.952	(1.037)	1475869	83.4532	83.4531
14 2-Methylphenol	107	6.993	6.983	(1.042)	817299	78.7503	78.7502
15 bis(2-Chloroisopropyl) ether	45	7.035	7.024	(1.048)	1463535	78.8782	78.8782
16 4-Methylphenol	107	7.159	7.149	(1.066)	1370081	84.8239	84.8239
17 N-Nitroso-di-n-propylamine	70	7.221	7.211	(1.076)	603057	85.0553	85.0552
18 Hexachloroethane	117	7.314	7.314	(1.089)	560564	87.8300	87.8300
$ 19 Nitrobenzene-d5	82	7.397	7.387	(0.898)	1078607	83.1144	83.1144(R)
20 Nitrobenzene	77	7.418	7.418	(0.901)	1034427	82.7068	82.7068

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ611.D
Report Date: 07-Oct-2004 09:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
21 Isophorone	82	7.687	7.666	(0.933)	2011150	86.4841	86.4841
22 2,4-Dimethylphenol	122	7.780	7.770	(0.945)	1021535	85.6312	85.6311
23 2-Nitrophenol	139	7.790	7.780	(0.946)	749848	87.1847	87.1846
24 bis(2-Chloroethoxy)methane	93	7.904	7.894	(0.960)	1325391	81.6122	81.6121
25 Benzoic acid	122	7.987	7.914	(0.970)	911910	114.356	114.3562
26 2,4-Dichlorophenol	162	8.059	8.049	(0.979)	1215599	85.4403	85.4403
27 1,2,4-Trichlorobenzene	180	8.173	8.163	(0.992)	1496133	85.8175	85.8174
* 28 Naphthalene-d8	136	8.235	8.225	(1.000)	1775995	40.0000	
29 Naphthalene	128	8.266	8.256	(1.004)	3691796	88.0964	88.0964
30 4-Chloroaniline	127	8.328	8.318	(1.011)	1447118	83.1859	83.1859
31 Hexachlorobutadiene	225	8.442	8.442	(1.025)	972657	85.0731	85.0730
32 4-Chloro-3-methylphenol	107	8.867	8.856	(1.077)	994623	88.3647	88.3647
33 2-Methylnaphthalene	142	9.094	9.084	(1.104)	2861986	88.6723	88.6722
34 Hexachlorocyclopentadiene	237	9.353	9.353	(0.898)	912889	98.3689	98.3689
35 2,4,6-Trichlorophenol	196	9.457	9.446	(0.908)	1039243	87.7942	87.7942
36 2,4,5-Trichlorophenol	196	9.508	9.498	(0.913)	1088532	92.9809	92.9808
$ 37 2-Fluorobiphenyl	172	9.550	9.539	(0.917)	3106295	89.2917	89.2916(R)
38 2-Chloronaphthalene	162	9.705	9.695	(0.931)	2664170	89.9698	89.9698
39 2-Nitroaniline	65	9.860	9.850	(0.946)	510725	83.8935	83.8934
40 Dimethylphthalate	163	10.078	10.067	(0.967)	3064834	85.5077	85.5076
41 2,6-Dinitrotoluene	165	10.202	10.181	(0.979)	771592	89.0813	89.0813
42 Acenaphthylene	152	10.233	10.233	(0.982)	4150200	89.2340	89.2340
43 3-Nitroaniline	138	10.388	10.367	(0.997)	691007	84.0518	84.0517
* 44 Acenaphthene-d10	164	10.419	10.419	(1.000)	1137801	40.0000	
45 Acenaphthene	154	10.471	10.461	(1.005)	2570299	89.8730	89.8730
46 2,4-Dinitrophenol	184	10.502	10.492	(1.008)	505296	86.9950	86.9950
47 4-Nitrophenol	109	10.554	10.533	(1.013)	283913	102.508	102.5077
48 Dibenzofuran	168	10.657	10.647	(1.023)	3868652	87.5476	87.5475
49 2,4-Dinitrotoluene	165	10.688	10.678	(1.026)	967001	86.8638	86.8638
50 Diethylphthalate	149	10.947	10.937	(1.051)	2903628	87.2541	87.2540
51 4-Chlorophenyl-phenylether	204	11.051	11.040	(1.061)	1737590	88.5952	88.5951
52 Fluorene	166	11.092	11.082	(1.065)	3185517	88.7072	88.7071
53 4-Nitroaniline	138	11.175	11.154	(1.073)	462084	64.0962	64.0961
54 4,6-Dinitro-2-methylphenol	198	11.216	11.195	(0.915)	741177	103.483	103.4833
55 N-Nitrosodiphenylamine	169	11.227	11.206	(0.916)	2298479	92.1664	92.1664
56 Azobenzene	77	11.247	11.247	(0.917)	2263969	88.8244	88.8244
$ 57 2,4,6-Tribromophenol	330	11.423	11.413	(1.096)	756656	88.7218	88.7218
58 4-Bromophenyl-phenylether	248	11.661	11.651	(0.951)	1267661	86.7888	86.7887
59 Hexachlorobenzene	284	11.879	11.879	(0.969)	1404200	86.5134	86.5133
60 Pentachlorophenol	266	12.096	12.086	(0.986)	977259	93.8235	93.8235
* 61 Phenanthrene-d10	188	12.262	12.262	(1.000)	2276336	40.0000	
62 Phenanthrene	178	12.303	12.293	(1.003)	4840813	89.1437	89.1436
63 Anthracene	178	12.355	12.344	(1.008)	4798277	85.3867	85.3867
64 Carbazole	167	12.531	12.531	(1.022)	2697073	60.6691	60.6691
65 Di-n-butylphthalate	149	12.934	12.924	(1.055)	5052501	80.1817	80.1817
66 Fluoranthene	202	13.793	13.783	(1.125)	6025069	86.4055	86.4055
67 Benzidine	184	13.918	13.907	(0.872)	157992	22.8619	22.8618
68 Pyrene	202	14.094	14.083	(0.883)	5866818	85.8352	85.8352
$ 69 Terphenyl-d14	244	14.228	14.218	(0.891)	4715605	82.3230	82.3229(R)
70 Butylbenzylphthalate	149	14.891	14.880	(0.933)	2326834	84.2481	84.2480
71 3,3'-Dichlorobenzidine	252	15.874	15.853	(0.994)	1975220	76.9758	76.9757
72 Benzo(a)anthracene	228	15.926	15.915	(0.997)	5993956	85.7650	85.7649
* 73 Chrysene-d12	240	15.967	15.957	(1.000)	2188660	40.0000	
74 bis(2-Ethylhexyl)phthalate	149	15.832	15.822	(0.992)	3406776	84.7399	84.7398

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ611.D
Report Date: 07-Oct-2004 09:47

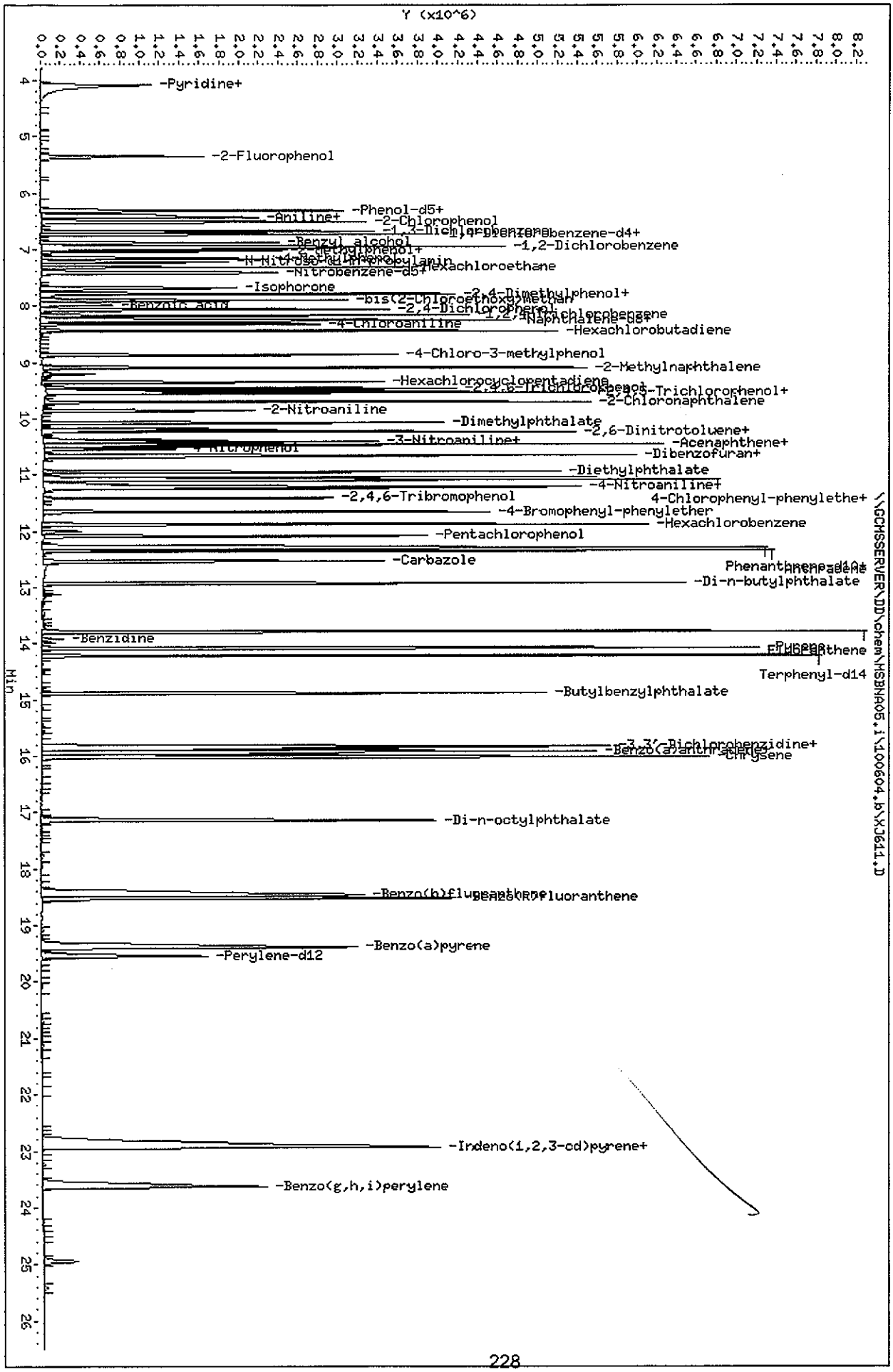
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
75 Chrysene	228	16.029	16.008	(1.004)	5533781	87.5184	87.5183
76 Di-n-octylphthalate	149	17.147	17.137	(0.877)	5717701	86.4107	86.4106
77 Benzo(b)fluoranthene	252	18.472	18.430	(0.945)	7360070	78.6966	78.6966
78 Benzo(k)fluoranthene	252	18.534	18.503	(0.948)	5095054	85.3936	85.3935(A)
79 Benzo(a)pyrene	252	19.393	19.372	(0.992)	5473349	90.6702	90.6701
* 80 Perylene-d12	264	19.548	19.538	(1.000)	1871255	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.912	22.860	(1.172)	5455001	84.6388	84.6387
82 Dibenz(a,h)anthracene	278	22.933	22.891	(1.173)	4716368	89.7986	89.7986
83 Benzo(g,h,i)perylene	276	23.636	23.605	(1.209)	4063250	81.3605	81.3605

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\100604.b\XJ611.D
Date : 06-OCT-2004 16:38
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,04WS1724
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544409748002
Calnum : 544403805004
Standards: 04WS1859

Run Name :
Filename : xja02
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 10-OCT-2004 13:27
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.3966	0.4277	50.00000	53.92110	ng	8	30	0.0500	
Pyridine	1.0374	1.1583	50.00000	55.82560	ng	12	30	0.0500	
Phenol	1.3821	1.4016	50.00000	50.70480	ng	1	20	0.0500	
Aniline	0.4984	0.5130	50.00000	51.47030	ng	3	30	0.0500	
bis(2-Chloroethyl)ether	0.7358	0.7762	50.00000	52.74560	ng	5	30	0.0500	
2-Chlorophenol	1.2109	1.2397	50.00000	51.19300	ng	2	30	0.0500	
1,3-Dichlorobenzene	1.4954	1.5202	50.00000	50.82800	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.4780	1.5186	50.00000	51.37160	ng	3	20	0.0500	
Benzyl alcohol	0.6893	0.7335	50.00000	53.20820	ng	6	30	0.0500	
1,2-Dichlorobenzene	1.3952	1.4339	50.00000	51.38800	ng	3	30	0.0500	
2-Methylphenol	0.8188	0.8401	50.00000	51.30070	ng	3	30	0.0500	
bis(2-Chloroisopropyl) ether	1.4638	1.5660	50.00000	53.49100	ng	7	30	0.0500	
4-Methylphenol	1.2743	1.3332	50.00000	52.31370	ng	5	30	0.0500	
N-Nitroso-di-n-propylamine	0.5594	0.5894	50.00000	52.68360	ng	5	30	0.0500	
Hexachloroethane	0.5035	0.5330	50.00000	52.92760	ng	6	30	0.0500	
Nitrobenzene	0.2817	0.2879	50.00000	51.10730	ng	2	30	0.0500	
Isophorone	0.5238	0.5373	50.00000	51.28880	ng	3	30	0.0500	
2-Nitrophenol	0.1937	0.1962	50.00000	50.64800	ng	1	20	0.0500	
2,4-Dimethylphenol	0.2687	0.2687	50.00000	49.99540	ng	0	30	0.0500	
bis(2-Chloroethoxy)methane	0.3658	0.3836	50.00000	52.44380	ng	5	30	0.0500	
Benzoic acid	0.1467	0.1528	50.00000	47.88080	ng	-4	40	0.0500	
2,4-Dichlorophenol	0.3204	0.3289	50.00000	51.31630	ng	3	20	0.0500	
1,2,4-Trichlorobenzene	0.3927	0.3944	50.00000	50.22230	ng	0	30	0.0500	
Naphthalene	0.9438	0.9881	50.00000	52.34600	ng	5	30	0.0500	
4-Chloroaniline	0.3918	0.3984	50.00000	50.84730	ng	2	30	0.0500	
Hexachlorobutadiene	0.2575	0.2665	50.00000	51.74000	ng	3	20	0.0500	
4-Chloro-3-methylphenol	0.2535	0.2683	50.00000	52.91000	ng	6	20	0.0500	
2-Methylnaphthalene	0.7269	0.7587	50.00000	52.18800	ng	4	30	0.0500	
Hexachlorocyclopentadiene	0.3263	0.3813	50.00000	58.43910	ng	17	40	0.0500	
2,4,6-Trichlorophenol	0.4161	0.4212	50.00000	50.60740	ng	1	20	0.0500	
2,4,5-Trichlorophenol	0.4116	0.4303	50.00000	52.27200	ng	5	30	0.0500	
2-Chloronaphthalene	1.0410	1.0790	50.00000	51.82240	ng	4	30	0.0500	
2-Nitroaniline	0.2140	0.2275	50.00000	53.15200	ng	6	30	0.0500	
Dimethylphthalate	1.2601	1.2955	50.00000	51.40380	ng	3	30	0.0500	
2,6-Dinitrotoluene	0.3045	0.3027	50.00000	49.70400	ng	-1	30	0.0500	
Acenaphthylene	1.6351	1.7275	50.00000	52.82610	ng	6	30	0.0500	
3-Nitroaniline	0.2890	0.2963	50.00000	51.26390	ng	3	30	0.0500	
Acenaphthene	1.0054	1.0401	50.00000	51.72330	ng	3	20	0.0500	
2,4-Dinitrophenol	0.1763	0.1874	50.00000	49.82980	ng	0	40	0.0500	
4-Nitrophenol	0.0974	0.1039	50.00000	53.34690	ng	7	40	0.0500	
Dibenzofuran	1.5535	1.6058	50.00000	51.68460	ng	3	30	0.0500	
2,4-Dinitrotoluene	0.3914	0.3951	50.00000	50.47830	ng	1	30	0.0500	
Diethylphthalate	1.1699	1.2707	50.00000	54.30660	ng	9	30	0.0500	
Fluorene	1.2625	1.3182	50.00000	52.20610	ng	4	30	0.0500	
4-Chlorophenyl-phenylether	0.6895	0.7228	50.00000	52.41760	ng	5	40	0.0500	
4-Nitroaniline	0.2534	0.2466	50.00000	48.64740	ng	-3	30	0.0500	

!=calc err rsd=ICAL %RSD failure
Page 1 of 2

10/11/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544409748002
Calnum : 544403805004
Standards: 04WS1859

Run Name :
Filename : xja02
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 10-OCT-2004 13:27
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1259	0.1369	50.00000	54.39180	ng	9	30	0.0500	
N-Nitrosodiphenylamine	0.4382	0.4390	50.00000	50.08990	ng	0	20	0.0500	
Azobenzene	0.4479	0.4575	50.00000	51.07090	ng	2	30	0.0500	
4-Bromophenyl-phenylether	0.2567	0.2581	50.00000	50.28070	ng	1	30	0.0500	
Hexachlorobenzene	0.2852	0.2982	50.00000	52.27220	ng	5	30	0.0500	
Pentachlorophenol	0.1830	0.1877	50.00000	51.28220	ng	3	20	0.0500	
Phenanthrene	0.9542	0.9935	50.00000	52.05630	ng	4	30	0.0500	
Anthracene	0.9875	1.0442	50.00000	52.87560	ng	6	30	0.0500	
Carbazole	0.7812	0.7240	50.00000	46.33840	ng	-7	30	0.0500	
Di-n-butylphthalate	1.1073	1.1720	50.00000	52.92280	ng	6	30	0.0500	
Fluoranthene	1.2253	1.2930	50.00000	52.76350	ng	6	20	0.0500	
Benzidine	0.1202	0.1196	50.00000	47.35810	ng	-5	40	0.0500	! rsd*
Pyrene	1.2492	1.3091	50.00000	52.40020	ng	5	30	0.0500	
Butylbenzylphthalate	0.5048	0.5213	50.00000	51.63940	ng	3	30	0.0500	
3,3'-Dichlorobenzidine	0.4690	0.4520	50.00000	48.19340	ng	-4	40	0.0500	
Benzo(a)anthracene	1.2773	1.2801	50.00000	50.10960	ng	0	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.7347	0.7523	50.00000	51.19110	ng	2	30	0.0500	
Chrysene	1.1556	1.2032	50.00000	52.06050	ng	4	30	0.0500	
Di-n-octylphthalate	1.4144	1.3916	50.00000	49.19280	ng	-2	20	0.0500	
Benzo(b)fluoranthene	1.5038	1.6212	50.00000	53.90130	ng	8	30	0.0500	
Benzo(k)fluoranthene	1.2754	1.3090	50.00000	51.31600	ng	3	30	0.0500	
Benzo(a)pyrene	1.2904	1.2932	50.00000	50.10780	ng	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.3777	1.4685	50.00000	53.29510	ng	7	30	0.0500	
Dibenz(a,h)anthracene	1.1227	1.1737	50.00000	52.26950	ng	5	30	0.0500	
Benzo(g,h,i)perylene	1.0675	1.1681	50.00000	54.71040	ng	9	30	0.0500	
2-Fluorophenol	1.0995	1.1414	50.00000	51.90320	ng	4	30	0.0500	
Phenol-d5	1.3192	1.3549	50.00000	51.35320	ng	3	30	0.0500	
Nitrobenzene-d5	0.2923	0.3018	50.00000	51.62490	ng	3	30	0.0500	
2-Fluorobiphenyl	1.2230	1.2851	50.00000	52.53780	ng	5	30	0.0500	
2,4,6-Tribromophenol	0.2998	0.3164	50.00000	52.76130	ng	6	30	0.0500	
Terphenyl-d14	1.0469	1.0414	50.00000	49.73820	ng	-1	30	0.0500	

10/11/04

!=calc err rsd=ICAL %RSD failure
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA02.D
Report Date: 10-Oct-2004 14:08

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA02.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 10-OCT-2004 13:27 MS Autotune Date: 21-SEP-2004 20:22
Operator : DL Inst ID: MSBNA05.i
Smp Info : CCV,04WS1825
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\6PTBNA5.m
Meth Date : 10-Oct-2004 14:34 tapsvc Quant Type: ISTD
Cal Date : 06-OCT-2004 16:01 Cal File: XJ610.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	3.888	3.888	(0.595)	655303	50.0000	55.8256
2 N-Nitrosodimethylamine	42	3.898	3.898	(0.596)	241998	50.0000	53.9211
$ 3 2-Fluorophenol	112	5.171	5.171	(0.791)	645736	50.0000	51.9031
$ 4 Phenol-d5	99	6.124	6.124	(0.937)	766577	50.0000	51.3532
5 Phenol	94	6.134	6.134	(0.938)	792953	50.0000	50.7047
6 Aniline	66	6.217	6.217	(0.951)	290259	50.0000	51.4702
7 bis(2-Chloroethyl)ether	63	6.248	6.248	(0.956)	439127	50.0000	52.7455
8 2-Chlorophenol	128	6.341	6.341	(0.970)	701405	50.0000	51.1930
9 1,3-Dichlorobenzene	146	6.496	6.496	(0.994)	860070	50.0000	50.8279
* 10 1,4-Dichlorobenzene-d4	152	6.538	6.538	(1.000)	452611	40.0000	
11 1,4-Dichlorobenzene	146	6.558	6.558	(1.003)	859151	50.0000	51.3715
12 Benzyl alcohol	108	6.693	6.693	(1.024)	415000	50.0000	53.2082
13 1,2-Dichlorobenzene	146	6.776	6.776	(1.036)	811265	50.0000	51.3879
14 2-Methylphenol	107	6.807	6.807	(1.041)	475279	50.0000	51.3006
15 bis(2-Chloroisopropyl) ether	45	6.858	6.858	(1.049)	885979	50.0000	53.4910
16 4-Methylphenol	107	6.972	6.972	(1.066)	754292	50.0000	52.3136
17 N-Nitroso-di-n-propylamine	70	7.034	7.034	(1.076)	333449	50.0000	52.6836
18 Hexachloroethane	117	7.128	7.128	(1.090)	301551	50.0000	52.9275
$ 19 Nitrobenzene-d5	82	7.210	7.210	(0.896)	614806	50.0000	51.6248
20 Nitrobenzene	77	7.231	7.231	(0.898)	586589	50.0000	51.1073

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA02.D
Report Date: 10-Oct-2004 14:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	7.490	7.490	(0.931)	1094518	50.0000	51.2888
	22 2,4-Dimethylphenol	122	7.604	7.604	(0.945)	547322	50.0000	49.9953
	23 2-Nitrophenol	139	7.604	7.604	(0.945)	399749	50.0000	50.6480
	24 bis(2-Chloroethoxy)methane	93	7.718	7.718	(0.959)	781583	50.0000	52.4437
	25 Benzoic acid	122	7.749	7.749	(0.963)	311338	50.0000	47.8808
	26 2,4-Dichlorophenol	162	7.873	7.873	(0.978)	670000	50.0000	51.3162
	27 1,2,4-Trichlorobenzene	180	7.987	7.987	(0.992)	803495	50.0000	50.2223
*	28 Naphthalene-d8	136	8.049	8.049	(1.000)	1629798	40.0000	
	29 Naphthalene	128	8.069	8.069	(1.003)	2013053	50.0000	52.3460
	30 4-Chloroaniline	127	8.142	8.142	(1.012)	811735	50.0000	50.8473
	31 Hexachlorobutadiene	225	8.256	8.256	(1.026)	542858	50.0000	51.7400
	32 4-Chloro-3-methylphenol	107	8.690	8.690	(1.080)	546524	50.0000	52.9099
	33 2-Methylnaphthalene	142	8.897	8.897	(1.105)	1545760	50.0000	52.1879
	34 Hexachlorocyclopentadiene	237	9.167	9.167	(0.896)	500632	50.0000	58.4391
	35 2,4,6-Trichlorophenol	196	9.270	9.270	(0.906)	552994	50.0000	50.6074
	36 2,4,5-Trichlorophenol	196	9.312	9.312	(0.910)	564900	50.0000	52.2719
$	37 2-Fluorobiphenyl	172	9.363	9.363	(0.915)	1687170	50.0000	52.5378
	38 2-Chloronaphthalene	162	9.508	9.508	(0.929)	1416569	50.0000	51.8224
	39 2-Nitroaniline	65	9.663	9.663	(0.944)	298699	50.0000	53.1520
	40 Dimethylphthalate	163	9.891	9.891	(0.967)	1700795	50.0000	51.4038
	41 2,6-Dinitrotoluene	165	10.005	10.005	(0.978)	397418	50.0000	49.7040
	42 Acenaphthylene	152	10.046	10.046	(0.982)	2267995	50.0000	52.8261
	43 3-Nitroaniline	138	10.191	10.191	(0.996)	389047	50.0000	51.2638
*	44 Acenaphthene-d10	164	10.233	10.233	(1.000)	1050319	40.0000	
	45 Acenaphthene	154	10.274	10.274	(1.004)	1365511	50.0000	51.7232
	46 2,4-Dinitrophenol	184	10.305	10.305	(1.007)	245976	50.0000	49.8297
	47 4-Nitrophenol	109	10.347	10.347	(1.011)	136393	50.0000	53.3468
	48 Dibenzofuran	168	10.460	10.460	(1.022)	2108296	50.0000	51.6846
	49 2,4-Dinitrotoluene	165	10.491	10.491	(1.025)	518738	50.0000	50.4783
	50 Diethylphthalate	149	10.761	10.761	(1.052)	1668256	50.0000	54.3065
	51 4-Chlorophenyl-phenylether	204	10.854	10.854	(1.061)	949007	50.0000	52.4176
	52 Fluorene	166	10.895	10.895	(1.065)	1730601	50.0000	52.2060
	53 4-Nitroaniline	138	10.968	10.968	(1.072)	323745	50.0000	48.6473
	54 4,6-Dinitro-2-methylphenol	198	11.009	11.009	(0.908)	352529	50.0000	54.3917
	55 N-Nitrosodiphenylamine	169	11.019	11.019	(0.909)	1130390	50.0000	50.0899
	56 Azobenzene	77	11.061	11.061	(0.912)	1177935	50.0000	51.0708
$	57 2,4,6-Tribromophenol	330	11.226	11.226	(1.097)	415373	50.0000	52.7612
	58 4-Bromophenyl-phenylether	248	11.464	11.464	(0.945)	664585	50.0000	50.2806
	59 Hexachlorobenzene	284	11.682	11.682	(0.963)	767762	50.0000	52.2722
	60 Pentachlorophenol	266	11.899	11.899	(0.981)	483364	50.0000	51.2821
*	61 Phenanthrene-d10	188	12.065	12.065	(1.000)	2059901	40.0000	(H)
	62 Phenanthrene	178	12.096	12.096	(0.997)	2558064	50.0000	52.0563 (H)
	63 Anthracene	178	12.158	12.158	(1.003)	2688812	50.0000	52.8756
	64 Carbazole	167	12.344	12.344	(1.018)	1864128	50.0000	46.3383
	65 Di-n-butylphthalate	149	12.748	12.748	(1.051)	3017756	50.0000	52.9228
	66 Fluoranthene	202	13.586	13.586	(1.120)	3329385	50.0000	52.7634
	67 Benzidine	184	13.721	13.721	(0.876)	311800	50.0000	47.3580
	68 Pyrene	202	13.876	13.876	(0.886)	3412155	50.0000	52.4002
$	69 Terphenyl-d14	244	14.021	14.021	(0.895)	2714342	50.0000	49.7381
	70 Butylbenzylphthalate	149	14.663	14.663	(0.936)	1358767	50.0000	51.6393
	71 3,3'-Dichlorobenzidine	252	15.573	15.573	(0.994)	1178168	50.0000	48.1933
	72 Benzo(a)anthracene	228	15.625	15.625	(0.997)	3336435	50.0000	50.1095
*	73 Chrysene-d12	240	15.667	15.667	(1.000)	2085148	40.0000	
	74 bis(2-Ethylhexyl)phthalate	149	15.563	15.563	(0.993)	1960691	50.0000	51.1911

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA02.D
Report Date: 10-Oct-2004 14:08

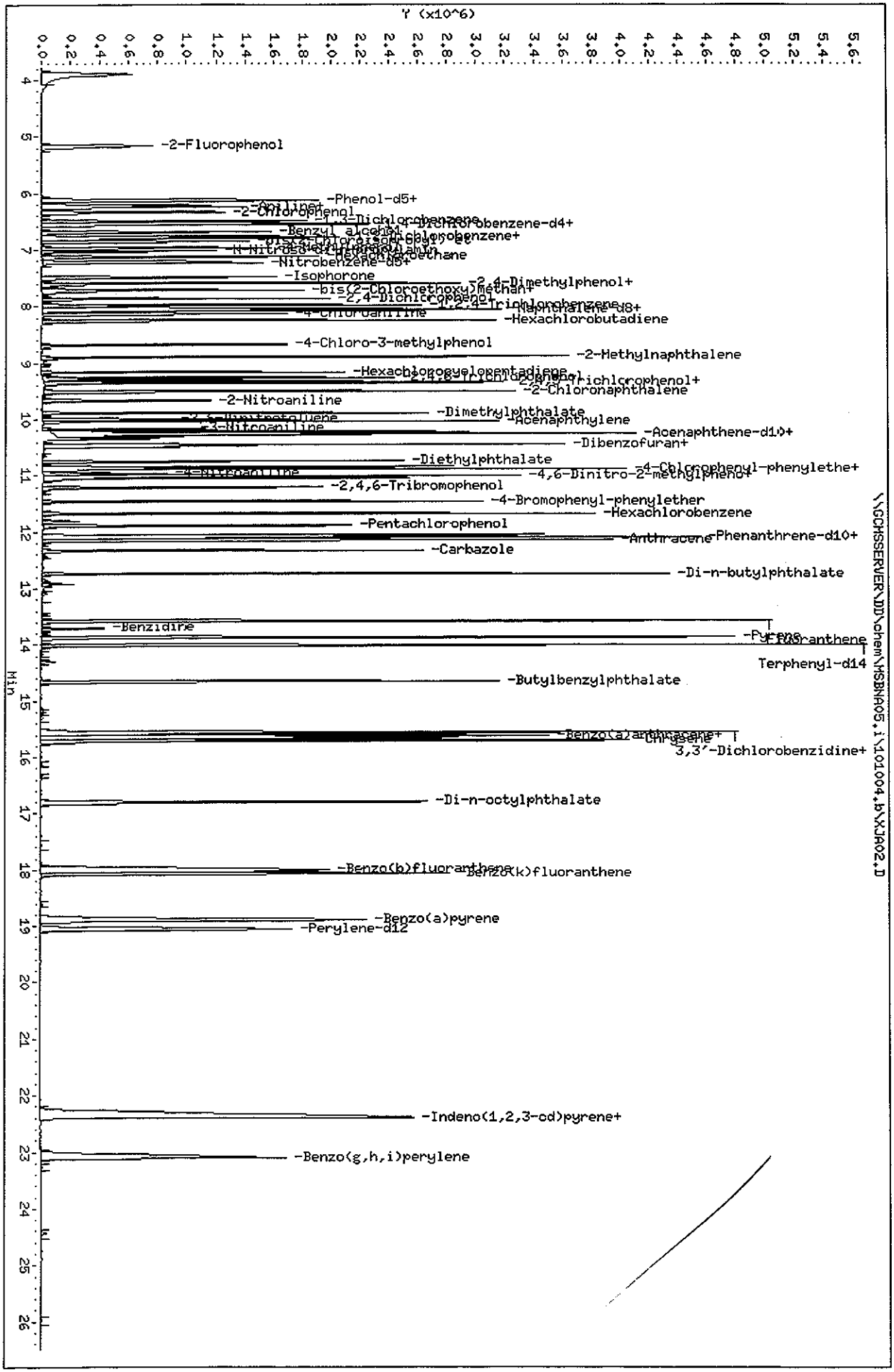
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	15.718	15.718	(1.003)	3136100	50.0000	52.0605
76 Di-n-octylphthalate	149	16.805	16.805	(0.881)	3415890	50.0000	49.1927
77 Benzo(b)fluoranthene	252	18.016	18.016	(0.945)	3979385	50.0000	53.9012
78 Benzo(k)fluoranthene	252	18.078	18.078	(0.948)	3213106	50.0000	51.3160(A)
79 Benzo(a)pyrene	252	18.906	18.906	(0.991)	3174259	50.0000	50.1077
* 80 Perylene-d12	264	19.072	19.072	(1.000)	1963729	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	22.353	22.353	(1.172)	3604637	50.0000	53.2951
82 Dibenz(a,h)anthracene	278	22.394	22.394	(1.174)	2880946	50.0000	52.2695
83 Benzo(g,h,i)perylene	276	23.108	23.108	(1.212)	2867332	50.0000	54.7103

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101004.b\XJA02.D
Date : 10-OCT-2004 13:27
Client ID: CURTIS&TOMPKINS
Sample Info: CCV,04WS1825
Volume Injected (uL): 1.0
Column phase: Mti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 544412502002
Calnum : 544403805004
Standards: 04WS1859

Run Name :
Filename : xjc02
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 12-OCT-2004 11:21
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.3966	0.4740	50.00000	59.75750	ng	20	30	0.0500	
Pyridine	1.0374	1.3797	50.00000	66.49750	ng	33	30	0.0500	c+ ***
Phenol	1.3821	1.6492	50.00000	59.66510	ng	19	20	0.0500	
Aniline	0.4984	0.6851	50.00000	68.73250	ng	37	30	0.0500	c+ ***
bis(2-Chloroethyl)ether	0.7358	1.0582	50.00000	71.91080	ng	44	30	0.0500	c+ ***
2-Chlorophenol	1.2109	1.3541	50.00000	55.91610	ng	12	30	0.0500	
1,3-Dichlorobenzene	1.4954	1.5492	50.00000	51.79820	ng	4	30	0.0500	
1,4-Dichlorobenzene	1.4780	1.5112	50.00000	51.12250	ng	2	20	0.0500	
Benzyl alcohol	0.6893	0.7318	50.00000	53.08350	ng	6	30	0.0500	
1,2-Dichlorobenzene	1.3952	1.4377	50.00000	51.52440	ng	3	30	0.0500	
2-Methylphenol	0.8188	0.9528	50.00000	58.18330	ng	16	30	0.0500	
bis(2-Chloroisopropyl) ether	1.4638	1.9276	50.00000	65.84400	ng	32	30	0.0500	c+ ***
4-Methylphenol	1.2743	1.4795	50.00000	58.05280	ng	16	30	0.0500	
N-Nitroso-di-n-propylamine	0.5594	0.7025	50.00000	62.79670	ng	26	30	0.0500	!c+
Hexachloroethane	0.5035	0.5660	50.00000	56.20010	ng	12	30	0.0500	
Nitrobenzene	0.2817	0.3330	50.00000	59.11090	ng	18	30	0.0500	
Isophorone	0.5238	0.6320	50.00000	60.33310	ng	21	30	0.0500	!c+
2-Nitrophenol	0.1937	0.2001	50.00000	51.65140	ng	3	20	0.0500	
2,4-Dimethylphenol	0.2687	0.2765	50.00000	51.45780	ng	3	30	0.0500	
bis(2-Chloroethoxy)methane	0.3658	0.4304	50.00000	58.83610	ng	18	30	0.0500	
Benzoic acid	0.1467	0.0875	50.00000	31.04590	ng	-38	40	0.0500	!c-
2,4-Dichlorophenol	0.3204	0.3158	50.00000	49.27540	ng	-1	20	0.0500	
1,2,4-Trichlorobenzene	0.3927	0.3617	50.00000	46.05200	ng	-8	30	0.0500	
Naphthalene	0.9438	1.0471	50.00000	55.47060	ng	11	30	0.0500	
4-Chloroaniline	0.3918	0.4124	50.00000	52.62310	ng	5	30	0.0500	
Hexachlorobutadiene	0.2575	0.2117	50.00000	41.10760	ng	-18	20	0.0500	
4-Chloro-3-methylphenol	0.2535	0.2798	50.00000	55.18200	ng	10	20	0.0500	
2-Methylnaphthalene	0.7269	0.7362	50.00000	50.63640	ng	1	30	0.0500	
Hexachlorocyclopentadiene	0.3263	0.3189	50.00000	48.87260	ng	-2	40	0.0500	
2,4,6-Trichlorophenol	0.4161	0.3928	50.00000	47.19770	ng	-6	20	0.0500	
2,4,5-Trichlorophenol	0.4116	0.3959	50.00000	48.09210	ng	-4	30	0.0500	
2-Chloronaphthalene	1.0410	1.1257	50.00000	54.06580	ng	8	30	0.0500	
2-Nitroaniline	0.2140	0.3202	50.00000	74.80750	ng	50	30	0.0500	c+ ***
Dimethylphthalate	1.2601	1.3844	50.00000	54.93490	ng	10	30	0.0500	
2,6-Dinitrotoluene	0.3045	0.3134	50.00000	51.46210	ng	3	30	0.0500	
Acenaphthylene	1.6351	1.8189	50.00000	55.62340	ng	11	30	0.0500	
3-Nitroaniline	0.2890	0.3185	50.00000	55.10710	ng	10	30	0.0500	
Acenaphthene	1.0054	1.1037	50.00000	54.88940	ng	10	20	0.0500	
2,4-Dinitrophenol	0.1763	0.1762	50.00000	47.31570	ng	-5	40	0.0500	
4-Nitrophenol	0.0974	0.0973	50.00000	49.94600	ng	0	40	0.0500	
Dibenzofuran	1.5535	1.6528	50.00000	53.19770	ng	6	30	0.0500	
2,4-Dinitrotoluene	0.3914	0.4055	50.00000	51.81090	ng	4	30	0.0500	
Diethylphthalate	1.1699	1.2813	50.00000	54.76000	ng	10	30	0.0500	
Fluorene	1.2625	1.3577	50.00000	53.77150	ng	8	30	0.0500	
4-Chlorophenyl-phenylether	0.6895	0.6830	50.00000	49.52730	ng	-1	40	0.0500	
4-Nitroaniline	0.2534	0.2957	50.00000	58.33580	ng	17	30	0.0500	

!=warning +=high bias -=low bias c=CCV rsd=ICAL %RSD failure

10/13/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid. : MSBNA05
Seqnum : 544412502002
Calnum : 544403805004
Standards: 04WS1859

Run Name :
Filename : xjc02
Caldate : 06-OCT-2004

IDF : 1.0
Injected : 12-OCT-2004 11:21
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1259	0.1292	50.00000	51.33300	ng	3	30	0.0500	
N-Nitrosodiphenylamine	0.4382	0.4878	50.00000	55.65550	ng	11	20	0.0500	
Azobenzene	0.4479	0.6173	50.00000	68.91230	ng	38	30	0.0500	c+ ***
4-Bromophenyl-phenylether	0.2567	0.2425	50.00000	47.24930	ng	-6	30	0.0500	
Hexachlorobenzene	0.2852	0.2736	50.00000	47.96020	ng	-4	30	0.0500	
Pentachlorophenol	0.1830	0.1501	50.00000	40.99090	ng	-18	20	0.0500	
Phenanthrene	0.9542	1.0946	50.00000	57.35730	ng	15	30	0.0500	
Anthracene	0.9875	1.0942	50.00000	55.40530	ng	11	30	0.0500	
Carbazole	0.7812	0.8425	50.00000	53.92370	ng	8	30	0.0500	
Di-n-butylphthalate	1.1073	1.2657	50.00000	57.15510	ng	14	30	0.0500	
Fluoranthene	1.2253	1.3063	50.00000	53.30450	ng	7	20	0.0500	
Benzidine	0.1202	0.1017	50.00000	40.24400	ng	-20	40	0.0500	! rsd *
Pyrene	1.2492	1.4410	50.00000	57.68010	ng	15	30	0.0500	
Butylbenzylphthalate	0.5048	0.5964	50.00000	59.07930	ng	18	30	0.0500	
3,3'-Dichlorobenzidine	0.4690	0.4541	50.00000	48.41010	ng	-3	40	0.0500	
Benzo(a)anthracene	1.2773	1.2886	50.00000	50.44310	ng	1	30	0.0500	
bis(2-Ethylhexyl)phthalate	0.7347	0.8554	50.00000	58.20930	ng	16	30	0.0500	
Chrysene	1.1556	1.2155	50.00000	52.59040	ng	5	30	0.0500	
Di-n-octylphthalate	1.4144	1.5000	50.00000	53.02570	ng	6	20	0.0500	
Benzo(b)fluoranthene	1.5038	1.6470	50.00000	54.76100	ng	10	30	0.0500	
Benzo(k)fluoranthene	1.2754	1.3031	50.00000	51.08400	ng	2	30	0.0500	
Benzo(a)pyrene	1.2904	1.2875	50.00000	49.88790	ng	0	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.3777	1.3845	50.00000	50.24730	ng	0	30	0.0500	
Dibenz(a,h)anthracene	1.1227	1.1114	50.00000	49.49500	ng	-1	30	0.0500	
Benzo(g,h,i)perylene	1.0675	1.0929	50.00000	51.18780	ng	2	30	0.0500	
2-Fluorophenol	1.0995	1.2916	50.00000	58.73450	ng	17	30	0.0500	
Phenol-d5	1.3192	1.6450	50.00000	62.34610	ng	25	30	0.0500	!c+
Nitrobenzene-d5	0.2923	0.3518	50.00000	60.18550	ng	20	30	0.0500	
2-Fluorobiphenyl	1.2230	1.3180	50.00000	53.88230	ng	8	30	0.0500	
2,4,6-Tribromophenol	0.2998	0.2587	50.00000	43.13680	ng	-14	30	0.0500	
Terphenyl-d14	1.0469	1.0886	50.00000	51.99220	ng	4	30	0.0500	

10/13/04

10/13/04

!=warning +=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC02.D
Report Date: 12-Oct-2004 12:30

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC02.D
Lab Smp Id:
Inj Date : 12-OCT-2004 11:21
Operator : DL
Smp Info : CCV,04WS1859
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\6PTBNA5.m
Meth Date : 12-Oct-2004 12:30 tapsvc
Cal Date : 06-OCT-2004 16:01
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.03
Processing Host: GCMSSERVER

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 21-SEP-2004 20:22
Inst ID: MSBNA05.i

Quant Type: ISTD
Cal File: XJ610.D
Continuing Calibration Sample

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 Pyridine	79	3.747	3.747	(0.586)	580435	50.0000	66.4974
2 N-Nitrosodimethylamine	42	3.768	3.768	(0.589)	199427	50.0000	59.7574
$ 3 2-Fluorophenol	112	5.041	5.041	(0.788)	543368	50.0000	58.7345
$ 4 Phenol-d5	99	6.004	6.004	(0.939)	692050	50.0000	62.3461
5 Phenol	94	6.014	6.014	(0.940)	693840	50.0000	59.6651
6 Aniline	66	6.086	6.086	(0.951)	288224	50.0000	68.7324
7 bis(2-Chloroethyl)ether	63	6.117	6.117	(0.956)	445183	50.0000	71.9108
8 2-Chlorophenol	128	6.200	6.200	(0.969)	569685	50.0000	55.9161
9 1,3-Dichlorobenzene	146	6.366	6.366	(0.995)	651757	50.0000	51.7982
* 10 1,4-Dichlorobenzene-d4	152	6.397	6.397	(1.000)	336562	40.0000	
11 1,4-Dichlorobenzene	146	6.418	6.418	(1.003)	635768	50.0000	51.1225
12 Benzyl alcohol	108	6.563	6.563	(1.026)	307871	50.0000	53.0835
13 1,2-Dichlorobenzene	146	6.635	6.635	(1.037)	604858	50.0000	51.5243
14 2-Methylphenol	107	6.687	6.687	(1.045)	400833	50.0000	58.1833

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC02.D
Report Date: 12-Oct-2004 12:30

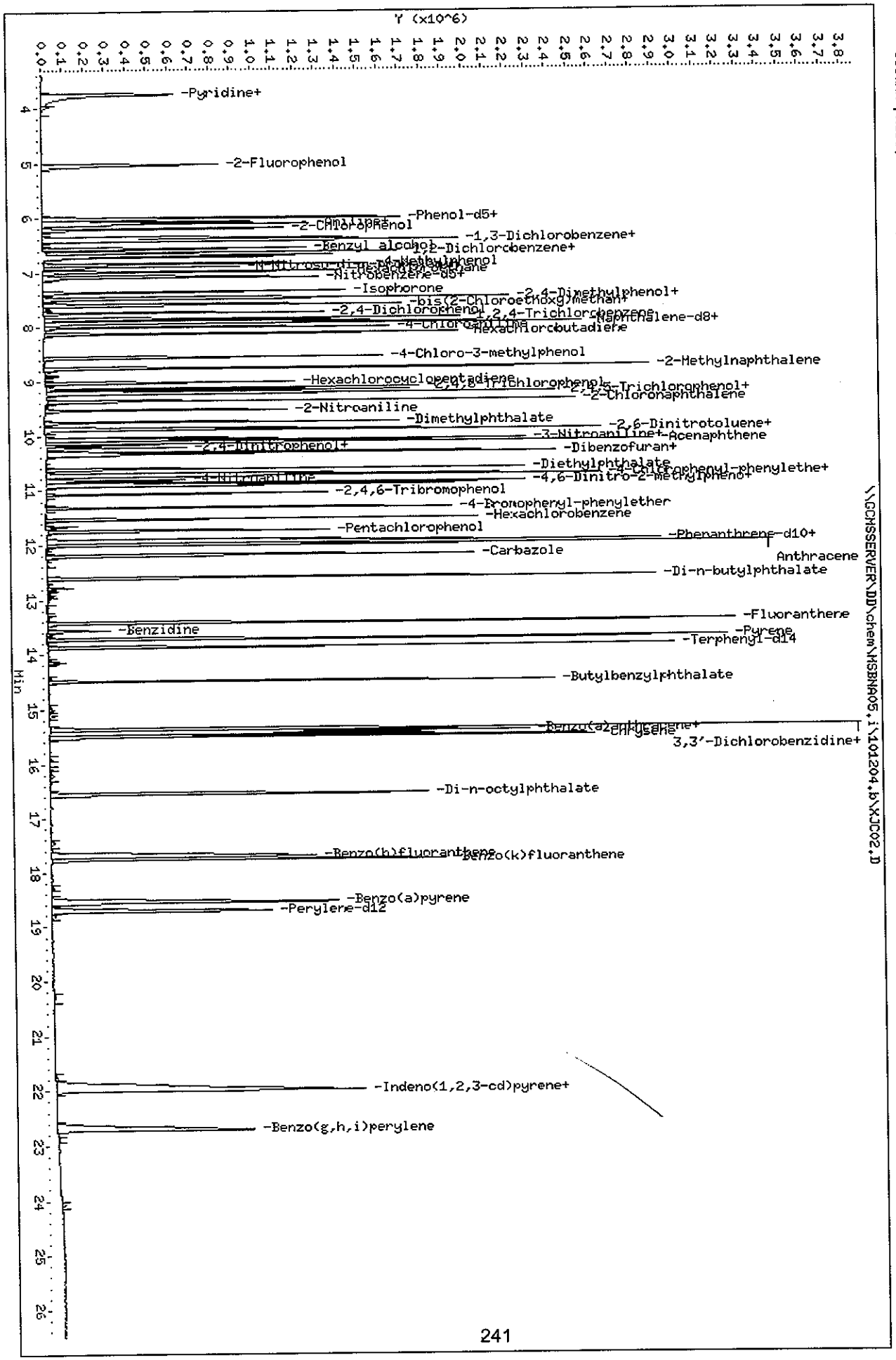
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	6.718	6.718	(1.050)	810958	50.0000	65.8439
	16 4-Methylphenol	107	6.852	6.852	(1.071)	622426	50.0000	58.0528
	17 N-Nitroso-di-n-propylamine	70	6.904	6.904	(1.079)	295550	50.0000	62.7967
	18 Hexachloroethane	117	6.987	6.987	(1.092)	238098	50.0000	56.2001
$	19 Nitrobenzene-d5	82	7.080	7.080	(0.895)	543435	50.0000	60.1855
	20 Nitrobenzene	77	7.101	7.101	(0.898)	514392	50.0000	59.1109
	21 Isophorone	82	7.359	7.359	(0.931)	976185	50.0000	60.3330
	22 2,4-Dimethylphenol	122	7.473	7.473	(0.945)	427111	50.0000	51.4578
	23 2-Nitrophenol	139	7.463	7.463	(0.944)	309089	50.0000	51.6513
	24 bis(2-Chloroethoxy)methane	93	7.587	7.587	(0.959)	664816	50.0000	58.8361
	25 Benzoic acid	122	7.608	7.608	(0.962)	135149	50.0000	31.0459
	26 2,4-Dichlorophenol	162	7.742	7.742	(0.979)	487782	50.0000	49.2753
	27 1,2,4-Trichlorobenzene	180	7.846	7.846	(0.992)	558613	50.0000	46.0520
*	28 Naphthalene-d8	136	7.908	7.908	(1.000)	1235692	40.0000	
	29 Naphthalene	128	7.929	7.929	(1.003)	1617375	50.0000	55.4705
	30 4-Chloroaniline	127	8.001	8.001	(1.012)	636941	50.0000	52.6231
	31 Hexachlorobutadiene	225	8.115	8.115	(1.026)	327008	50.0000	41.1076
	32 4-Chloro-3-methylphenol	107	8.560	8.560	(1.082)	432161	50.0000	55.1820
	33 2-Methylnaphthalene	142	8.757	8.757	(1.107)	1137132	50.0000	50.6363
	34 Hexachlorocyclopentadiene	237	9.026	9.026	(0.895)	283710	50.0000	48.8725
	35 2,4,6-Trichlorophenol	196	9.129	9.129	(0.906)	349480	50.0000	47.1977
	36 2,4,5-Trichlorophenol	196	9.181	9.181	(0.911)	352185	50.0000	48.0920
$	37 2-Fluorobiphenyl	172	9.223	9.223	(0.915)	1172541	50.0000	53.8822
	38 2-Chloronaphthalene	162	9.367	9.367	(0.929)	1001470	50.0000	54.0657
	39 2-Nitroaniline	65	9.533	9.533	(0.946)	284875	50.0000	74.8074
	40 Dimethylphthalate	163	9.761	9.761	(0.968)	1231688	50.0000	54.9349
	41 2,6-Dinitrotoluene	165	9.864	9.864	(0.978)	278829	50.0000	51.4620
	42 Acenaphthylene	152	9.895	9.895	(0.982)	1618253	50.0000	55.6234
	43 3-Nitroaniline	138	10.051	10.051	(0.997)	283395	50.0000	55.1070
*	44 Acenaphthene-d10	164	10.082	10.082	(1.000)	711732	40.0000	
	45 Acenaphthene	154	10.123	10.123	(1.004)	981958	50.0000	54.8893
	46 2,4-Dinitrophenol	184	10.175	10.175	(1.009)	156768	50.0000	47.3156
	47 4-Nitrophenol	109	10.227	10.227	(1.014)	86532	50.0000	49.9460
	48 Dibenzofuran	168	10.320	10.320	(1.024)	1470477	50.0000	53.1976
	49 2,4-Dinitrotoluene	165	10.351	10.351	(1.027)	360794	50.0000	51.8108
	50 Diethylphthalate	149	10.620	10.620	(1.053)	1139906	50.0000	54.7600
	51 4-Chlorophenyl-phenylether	204	10.713	10.713	(1.063)	607620	50.0000	49.5273
	52 Fluorene	166	10.744	10.744	(1.066)	1207880	50.0000	53.7715
	53 4-Nitroaniline	138	10.827	10.827	(1.074)	263071	50.0000	58.3357
	54 4,6-Dinitro-2-methylphenol	198	10.868	10.868	(0.912)	212978	50.0000	51.3329
	55 N-Nitrosodiphenylamine	169	10.889	10.889	(0.914)	804012	50.0000	55.6555
	56 Azobenzene	77	10.920	10.920	(0.917)	1017471	50.0000	68.9123
$	57 2,4,6-Tribromophenol	330	11.075	11.075	(1.099)	230126	50.0000	43.1368
	58 4-Bromophenyl-phenylether	248	11.324	11.324	(0.950)	399781	50.0000	47.2493
	59 Hexachlorobenzene	284	11.531	11.531	(0.968)	450934	50.0000	47.9601
	60 Pentachlorophenol	266	11.748	11.748	(0.986)	247327	50.0000	40.9908
*	61 Phenanthrene-d10	188	11.914	11.914	(1.000)	1318631	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC02.D
Report Date: 12-Oct-2004 12:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	11.955	11.955	(1.003)	1804277	50.0000	57.3572
63 Anthracene	178	12.007	12.007	(1.008)	1803569	50.0000	55.4052
64 Carbazole	167	12.193	12.193	(1.023)	1388646	50.0000	53.9236
65 Di-n-butylphthalate	149	12.607	12.607	(1.058)	2086283	50.0000	57.1551
66 Fluoranthene	202	13.435	13.435	(1.128)	2153135	50.0000	53.3044
67 Benzidine	184	13.570	13.570	(0.878)	153774	50.0000	40.2439
68 Pyrene	202	13.725	13.725	(0.888)	2179830	50.0000	57.6800
$ 69 Terphenyl-d14	244	13.870	13.870	(0.897)	1646701	50.0000	51.9922
70 Butylbenzylphthalate	149	14.501	14.501	(0.938)	902195	50.0000	59.0792
71 3,3'-Dichlorobenzidine	252	15.381	15.381	(0.995)	686843	50.0000	48.4101
72 Benzo(a)anthracene	228	15.422	15.422	(0.997)	1949241	50.0000	50.4431
* 73 Chrysene-d12	240	15.464	15.464	(1.000)	1210147	40.0000	
74 bis(2-Ethylhexyl)phthalate	149	15.371	15.371	(0.994)	1293921	50.0000	58.2092
75 Chrysene	228	15.515	15.515	(1.003)	1838608	50.0000	52.5904
76 Di-n-octylphthalate	149	16.561	16.561	(0.884)	2083648	50.0000	53.0257
77 Benzo(b)fluoranthene	252	17.710	17.710	(0.946)	2287828	50.0000	54.7609
78 Benzo(k)fluoranthene	252	17.772	17.772	(0.949)	1810058	50.0000	51.0840
79 Benzo(a)pyrene	252	18.558	18.558	(0.991)	1788411	50.0000	49.8878
* 80 Perylene-d12	264	18.724	18.724	(1.000)	1111262	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.964	21.964	(1.173)	1923189	50.0000	50.2473
82 Dibenz(a,h)anthracene	278	22.005	22.005	(1.175)	1543771	50.0000	49.4950
83 Benzo(g,h,i)perylene	276	22.719	22.719	(1.213)	1518133	50.0000	51.1878

Data File: \\GCMSSERVER\DD\chem\MSBNA05.i\101204.b\XJC02.D
Date : 12-OCT-2004 11:21
Client ID: CURTIS&TOMPKINS
Sample Info: CCV,04WS1889
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA05.i
Operator: DL
Column diameter: 0.25



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534413911002
Calnum : 534400909001
Standards: 04WS1859

Run Name :
Filename : wjd02
Caldate : 04-OCT-2004

IDF : 1.0
Injected : 13-OCT-2004 10:50
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.4420	0.4009	50.00000	45.35610	ng	-9	30	0.0500	m
Pyridine	0.7626	0.6749	50.00000	44.24580	ng	-12	30	0.0500	m
Phenol	1.2773	1.1962	50.00000	46.82550	ng	-6	20	0.0500	
Aniline	1.3889	0.0510	50.00000	1.834800	ng	-96	30	0.0500	c-
bis(2-Chloroethyl)ether	0.8338	0.8983	50.00000	51.86960	ng	4	30	0.0500	m
2-Chlorophenol	1.2306	1.2156	50.00000	49.39140	ng	-1	30	0.0500	
1,3-Dichlorobenzene	1.4123	1.3808	50.00000	48.88370	ng	-2	30	0.0500	
1,4-Dichlorobenzene	1.4612	1.4963	50.00000	51.20140	ng	2	20	0.0500	
Benzyl alcohol	0.6629	0.6265	50.00000	47.25470	ng	-5	30	0.0500	
1,2-Dichlorobenzene	1.3378	1.3690	50.00000	51.16500	ng	2	30	0.0500	
2-Methylphenol	0.8181	0.7831	50.00000	47.85700	ng	-4	30	0.0500	
bis(2-Chloroisopropyl) ether	1.6145	1.6735	50.00000	51.82610	ng	4	30	0.0500	
4-Methylphenol	1.2263	1.2642	50.00000	51.54370	ng	3	30	0.0500	
N-Nitroso-di-n-propylamine	0.6297	0.6957	50.00000	55.24590	ng	10	30	0.0500	m
Hexachloroethane	0.6552	0.6571	50.00000	50.14480	ng	0	30	0.0500	
Nitrobenzene	0.3480	0.3470	50.00000	49.86100	ng	0	30	0.0500	
Isophorone	0.6641	0.6193	50.00000	46.63230	ng	-7	30	0.0500	
2-Nitrophenol	0.2317	0.2136	50.00000	46.08880	ng	-8	20	0.0500	
2,4-Dimethylphenol	0.2815	0.2462	50.00000	43.72440	ng	-13	30	0.0500	
bis(2-Chloroethoxy)methane	0.3856	0.3570	50.00000	46.29240	ng	-7	30	0.0500	
Benzoic acid	0.1686	0.1307	50.00000	39.02550	ng	-22	40	0.0500	
2,4-Dichlorophenol	0.3617	0.3455	50.00000	47.76480	ng	-4	20	0.0500	
1,2,4-Trichlorobenzene	0.4277	0.4017	50.00000	46.95260	ng	-6	30	0.0500	
Naphthalene	1.0782	1.1202	50.00000	51.94510	ng	4	30	0.0500	
4-Chloroaniline	0.4348	0.4080	50.00000	46.91670	ng	-6	30	0.0500	
Hexachlorobutadiene	0.3051	0.3091	50.00000	50.64710	ng	1	20	0.0500	
4-Chloro-3-methylphenol	0.3436	0.3174	50.00000	46.18600	ng	-8	20	0.0500	
2-Methylnaphthalene	0.7824	0.7614	50.00000	48.65600	ng	-3	30	0.0500	
Hexachlorocyclopentadiene	0.2972	0.3071	50.00000	50.82300	ng	2	40	0.0500	
2,4,6-Trichlorophenol	0.4709	0.4065	50.00000	43.16020	ng	-14	20	0.0500	
2,4,5-Trichlorophenol	0.4733	0.3959	50.00000	41.81750	ng	-16	30	0.0500	
2-Chloronaphthalene	1.1359	1.0727	50.00000	47.22020	ng	-6	30	0.0500	
2-Nitroaniline	0.3312	0.3166	50.00000	47.78850	ng	-4	30	0.0500	
Dimethylphthalate	1.5795	1.4540	50.00000	46.02710	ng	-8	30	0.0500	
2,6-Dinitrotoluene	0.3714	0.3810	50.00000	51.29760	ng	3	30	0.0500	
Acenaphthylene	1.8382	1.8890	50.00000	51.38180	ng	3	30	0.0500	
3-Nitroaniline	0.2886	0.3159	50.00000	54.72510	ng	9	30	0.0500	
Acenaphthene	1.0675	1.0173	50.00000	47.64730	ng	-5	20	0.0500	
2,4-Dinitrophenol	0.2208	0.1846	50.00000	40.97640	ng	-18	40	0.0500	
4-Nitrophenol	0.2258	0.1985	50.00000	43.95770	ng	-12	40	0.0500	
Dibenzofuran	1.6796	1.5314	50.00000	45.59060	ng	-9	30	0.0500	
2,4-Dinitrotoluene	0.4730	0.4403	50.00000	46.54850	ng	-7	30	0.0500	
Diethylphthalate	1.6294	1.5214	50.00000	46.68610	ng	-7	30	0.0500	
Fluorene	1.3486	1.2358	50.00000	45.81710	ng	-8	30	0.0500	
4-Chlorophenyl-phenylether	0.8137	0.7721	50.00000	47.44070	ng	-5	40	0.0500	
4-Nitroaniline	0.2355	0.2264	50.00000	48.05670	ng	-4	30	0.0500	

-=low bias c=CCV m=manual integration rsd=ICAL %RSD failure

242

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534413911002
Calnum : 534400909001
Standards: 04WS1859

Run Name :
Filename : wjd02
Caldate : 04-OCT-2004

IDF : 1.0
Injected : 13-OCT-2004 10:50
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1710	0.1681	50.00000	49.17260	ng	-2	30	0.0500	
N-Nitrosodiphenylamine	0.5349	0.4954	50.00000	46.30460	ng	-7	20	0.0500	
Azobenzene	0.7463	0.7751	50.00000	51.93030	ng	4	30	0.0500	
4-Bromophenyl-phenylether	0.2700	0.2688	50.00000	49.77290	ng	0	30	0.0500	
Hexachlorobenzene	0.3158	0.3243	50.00000	51.35320	ng	3	30	0.0500	
Pentachlorophenol	0.1947	0.1858	50.00000	47.71160	ng	-5	20	0.0500	
Phenanthrene	1.0889	1.1530	50.00000	52.94160	ng	6	30	0.0500	
Anthracene	1.0766	1.1691	50.00000	54.29550	ng	9	30	0.0500	
Carbazole	0.7652	0.7909	50.00000	51.67870	ng	3	30	0.0500	
Di-n-butylphthalate	1.6269	1.7630	50.00000	54.18300	ng	8	30	0.0500	
Fluoranthene	1.2435	1.2351	50.00000	49.66270	ng	-1	20	0.0500	
Benzidine	0.1251	0.0692	50.00000	27.66690	ng	-45	40	0.0500	c- rsd
Pyrene	1.4178	1.2224	50.00000	43.10730	ng	-14	30	0.0500	
Butylbenzylphthalate	0.7815	0.6799	50.00000	43.49980	ng	-13	30	0.0500	
3,3'-Dichlorobenzidine	0.4102	0.4577	50.00000	55.79540	ng	12	40	0.0500	
Benzo(a)anthracene	1.2607	1.2142	50.00000	48.15490	ng	-4	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.1503	1.0374	50.00000	45.09330	ng	-10	30	0.0500	
Chrysene	1.1928	1.1426	50.00000	47.89320	ng	-4	30	0.0500	
Di-n-octylphthalate	2.4800	2.1929	50.00000	44.21120	ng	-12	20	0.0500	
Benzo(b)fluoranthene	1.7394	1.7343	50.00000	50.80960	ng	2	30	0.0500	m
Benzo(k)fluoranthene	1.3848	1.3879	50.00000	50.11160	ng	0	30	0.0500	
Benzo(a)pyrene	1.2572	1.2295	50.00000	48.89960	ng	-2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2144	1.3358	50.00000	55.00090	ng	10	30	0.0500	m
Dibenz(a,h)anthracene	0.9846	1.0918	50.00000	55.44170	ng	11	30	0.0500	m
Benzo(g,h,i)perylene	0.9543	1.0600	50.00000	55.53800	ng	11	30	0.0500	m
2-Fluorophenol	1.0780	0.9345	50.00000	43.34340	ng	-13	30	0.0500	
Phenol-d5	1.1776	1.1158	50.00000	47.37400	ng	-5	30	0.0500	
Nitrobenzene-d5	0.3784	0.3668	50.00000	48.47750	ng	-3	30	0.0500	
2-Fluorobiphenyl	1.4074	1.3253	50.00000	47.08060	ng	-6	30	0.0500	
2,4,6-Tribromophenol	0.2867	0.2718	50.00000	47.40240	ng	-5	30	0.0500	
Terphenyl-d14	1.0902	1.0764	50.00000	49.36390	ng	-1	30	0.0500	

-=low bias c=CCV m=manual integration rsd=ICAL %RSD failure

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD02.D
Report Date: 13-Oct-2004 11:28

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD02.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 13-OCT-2004 10:50 MS Autotune Date: 15-AUG-2002 15:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : CCV,04WS1859
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\6PTBNA4.m
Meth Date : 13-Oct-2004 11:51 tapsvc Quant Type: ISTD
Cal Date : 04-OCT-2004 17:46 Cal File: WJ412.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	2.611	2.611	(0.478)	110205	80.0000	45.3561(M)
	2 Pyridine	79	2.601	2.601	(0.476)	185504	80.0000	44.2458(M)
$	3 2-Fluorophenol	112	4.033	4.033	(0.738)	256866	80.0000	43.3433
$	4 Phenol-d5	99	5.107	5.107	(0.935)	306692	80.0000	47.3739(H)
	5 Phenol	94	5.127	5.127	(0.938)	328814	80.0000	46.8254(H)
	6 Aniline	66	5.219	5.219	(0.955)	14010	80.0000	1.8348(aQ)
	7 bis(2-Chloroethyl)ether	63	5.209	5.209	(0.953)	246913	80.0000	51.8696(MH)
	8 2-Chlorophenol	128	5.230	5.230	(0.957)	334144	80.0000	49.3914
	9 1,3-Dichlorobenzene	146	5.393	5.393	(0.987)	379540	80.0000	48.8837(H)
*	10 1,4-Dichlorobenzene-d4	152	5.465	5.465	(1.000)	219898	40.0000	
	11 1,4-Dichlorobenzene	146	5.475	5.475	(1.002)	411289	80.0000	51.2013(H)
	12 Benzyl alcohol	108	5.659	5.659	(1.036)	172208	80.0000	47.2547(H)
	13 1,2-Dichlorobenzene	146	5.649	5.649	(1.034)	376293	80.0000	51.1649
	14 2-Methylphenol	107	5.792	5.792	(1.060)	215241	80.0000	47.8570(H)
	15 bis(2-Chloroisopropyl) ether	45	5.813	5.813	(1.064)	459986	80.0000	51.8261
	16 4-Methylphenol	107	5.997	5.997	(1.097)	347486	80.0000	51.5436(Q)
	17 N-Nitroso-di-n-propylamine	70	5.986	5.986	(1.095)	191238	80.0000	55.2458(MH)
	18 Hexachloroethane	117	6.017	6.017	(1.101)	180620	80.0000	50.1447
$	19 Nitrobenzene-d5	82	6.119	6.119	(0.883)	341350	80.0000	48.4775(H)
	20 Nitrobenzene	77	6.140	6.140	(0.886)	322887	80.0000	49.8610(H)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD02.D
Report Date: 13-Oct-2004 11:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	6.436	6.436	(0.929)	576285	80.0000	46.6323
	22 2-Nitrophenol	139	6.508	6.508	(0.939)	198728	80.0000	46.0888
	23 2,4-Dimethylphenol	122	6.600	6.600	(0.953)	229061	80.0000	43.7243(H)
	24 bis(2-Chloroethoxy)methane	93	6.702	6.702	(0.968)	332175	80.0000	46.2924
	26 2,4-Dichlorophenol	162	6.794	6.794	(0.981)	321478	80.0000	47.7648
	25 Benzoic acid	122	6.845	6.845	(0.988)	121624	80.0000	39.0254(QH)
	27 1,2,4-Trichlorobenzene	180	6.876	6.876	(0.993)	373738	80.0000	46.9526
*	28 Naphthalene-d8	136	6.927	6.927	(1.000)	744394	40.0000	
	29 Naphthalene	128	6.958	6.958	(1.004)	1042306	80.0000	51.9451(H)
	30 4-Chloroaniline	127	7.050	7.050	(1.018)	379634	80.0000	46.9167
	31 Hexachlorobutadiene	225	7.111	7.111	(1.027)	287590	80.0000	50.6470
	32 4-Chloro-3-methylphenol	107	7.653	7.653	(1.105)	295328	80.0000	46.1860
	33 2-Methylnaphthalene	142	7.776	7.776	(1.123)	708485	80.0000	48.6559
	34 Hexachlorocyclopentadiene	237	7.960	7.960	(0.882)	197983	80.0000	50.8229
	35 2,4,6-Trichlorophenol	196	8.134	8.134	(0.901)	262066	80.0000	43.1602(H)
	36 2,4,5-Trichlorophenol	196	8.175	8.175	(0.906)	255195	80.0000	41.8175
$	37 2-Fluorobiphenyl	172	8.236	8.236	(0.913)	854333	80.0000	47.0805
	38 2-Chloronaphthalene	162	8.359	8.359	(0.926)	691529	80.0000	47.2202
	39 2-Nitroaniline	65	8.523	8.523	(0.944)	204089	80.0000	47.7884(H)
	40 Dimethylphthalate	163	8.768	8.768	(0.972)	937351	80.0000	46.0270(H)
	41 2,6-Dinitrotoluene	165	8.840	8.840	(0.980)	245627	80.0000	51.2975(H)
	42 Acenaphthylene	152	8.850	8.850	(0.981)	1217772	80.0000	51.3817(H)
	43 3-Nitroaniline	138	9.024	9.024	(1.000)	203618	80.0000	54.7250
*	44 Acenaphthene-d10	164	9.024	9.024	(1.000)	515724	40.0000	
	45 Acenaphthene	154	9.065	9.065	(1.005)	655808	80.0000	47.6472(H)
	46 2,4-Dinitrophenol	184	9.157	9.157	(1.015)	118976	80.0000	40.9763
	47 4-Nitrophenol	109	9.269	9.269	(1.027)	127947	80.0000	43.9577
	48 Dibenzofuran	168	9.269	9.269	(1.027)	987246	80.0000	45.5905
	51 2,4-Dinitrotoluene	165	9.321	9.321	(1.033)	283855	80.0000	46.5484
	49 Diethylphthalate	149	9.617	9.617	(1.066)	980789	80.0000	46.6861
	52 Fluorene	166	9.679	9.679	(1.073)	796664	80.0000	45.8170(H)
	50 4-Chlorophenyl-phenylether	204	9.699	9.699	(1.075)	497728	80.0000	47.4407
	53 4-Nitroaniline	138	9.791	9.791	(1.085)	145931	80.0000	48.0567
	54 4,6-Dinitro-2-methylphenol	198	9.822	9.822	(0.909)	170879	80.0000	49.1726(Q)
	55 N-Nitrosodiphenylamine	169	9.863	9.863	(0.913)	503439	80.0000	46.3045
	56 Azobenzene	77	9.893	9.893	(0.916)	787750	80.0000	51.9302
$	57 2,4,6-Tribromophenol	330	9.985	9.985	(1.107)	175226	80.0000	47.4023
	58 4-Bromophenyl-phenylether	248	10.282	10.282	(0.952)	273182	80.0000	49.7728
	59 Hexachlorobenzene	284	10.343	10.343	(0.957)	329633	80.0000	51.3532
	60 Pentachlorophenol	266	10.599	10.599	(0.981)	188808	80.0000	47.7116
*	61 Phenanthrene-d10	188	10.804	10.804	(1.000)	813032	40.0000	
	62 Phenanthrene	178	10.834	10.834	(1.003)	1171749	80.0000	52.9416(H)
	63 Anthracene	178	10.896	10.896	(1.009)	1188165	80.0000	54.2954
	64 Carbazole	167	11.110	11.110	(1.028)	803766	80.0000	51.6787
	65 Di-n-butylphthalate	149	11.571	11.571	(1.071)	1791731	80.0000	54.1830
	66 Fluoranthene	202	12.256	12.256	(1.134)	1255269	80.0000	49.6627(H)
	68 Pyrene	202	12.522	12.522	(0.895)	1279950	80.0000	43.1072
	67 Benzidine	184	12.450	12.450	(0.890)	72500	80.0000	27.6668(H)
$	69 Terphenyl-d14	244	12.747	12.747	(0.912)	1127077	80.0000	49.3639
	70 Butylbenzylphthalate	149	13.360	13.360	(0.955)	711890	80.0000	43.4997
	71 3,3'-Dichlorobenzidine	252	13.974	13.974	(0.999)	479295	80.0000	55.7954
	72 Benzo(a)anthracene	228	13.964	13.964	(0.999)	1271407	80.0000	48.1549(H)
*	73 Chrysene-d12	240	13.984	13.984	(1.000)	837690	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	14.066	14.066	(1.006)	1086298	80.0000	45.0932

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD02.D
Report Date: 13-Oct-2004 11:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
74 Chrysene	228	14.025	14.025	(1.003)	1196386	80.0000	47.8932
76 Di-n-octylphthalate	149	14.813	14.813	(0.940)	1613567	80.0000	44.2111
77 Benzo(b)fluoranthene	252	15.242	15.242	(0.968)	1276146	80.0000	50.8096(M)
78 Benzo(k)fluoranthene	252	15.283	15.283	(0.970)	1021233	80.0000	50.1116(AH)
79 Benzo(a)pyrene	252	15.672	15.672	(0.995)	904669	80.0000	48.8995
* 80 Perylene-d12	264	15.754	15.754	(1.000)	588648	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	17.472	17.472	(1.109)	982930	80.0000	55.0009(MH)
82 Dibenz(a,h)anthracene	278	17.523	17.523	(1.112)	803329	80.0000	55.4416(MH)
83 Benzo(g,h,i)perylene	276	17.973	17.973	(1.141)	779927	80.0000	55.5379(M)

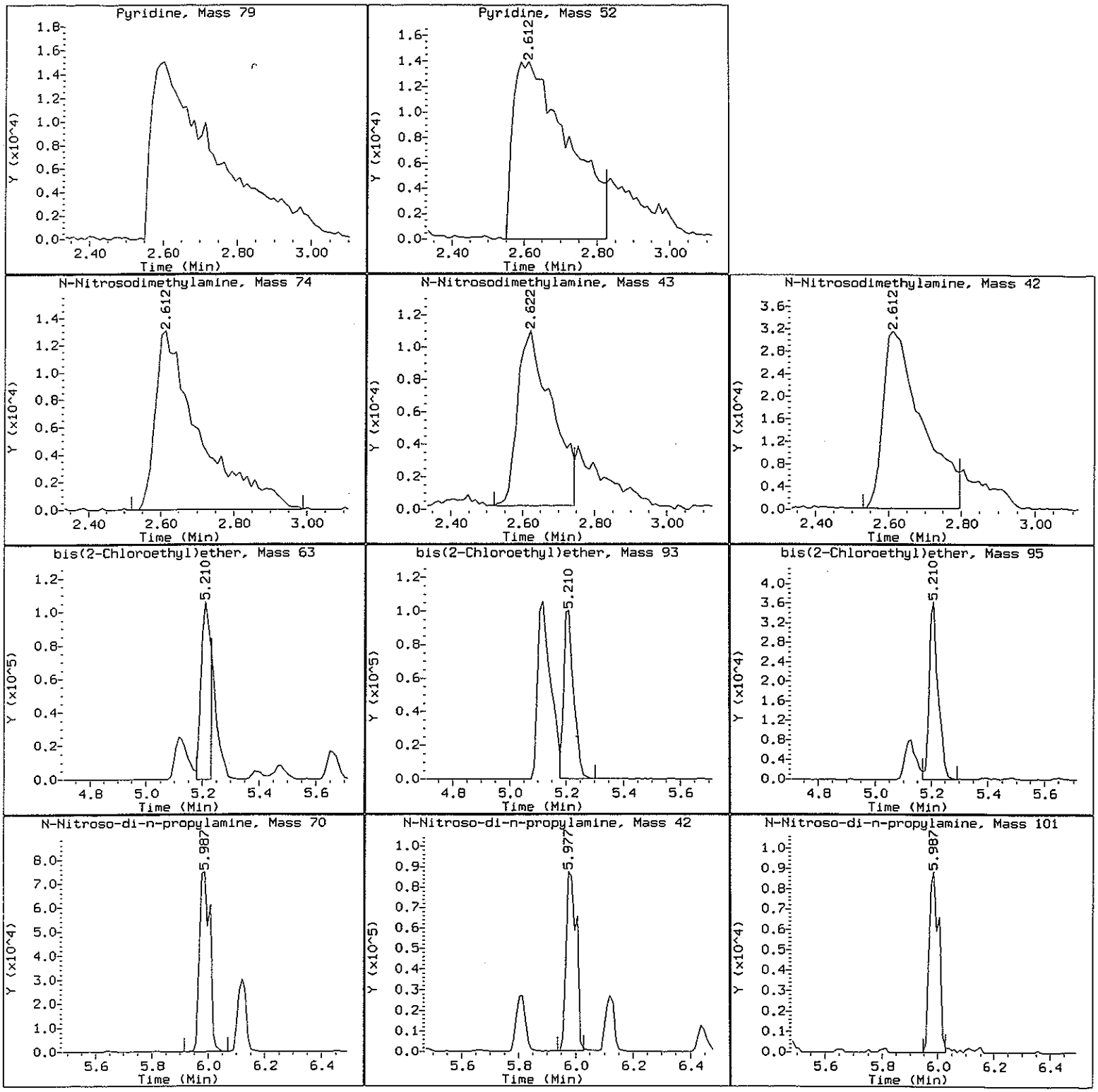
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Signal Manual Integrations Report

Report Date: 10/13/2004 11:28

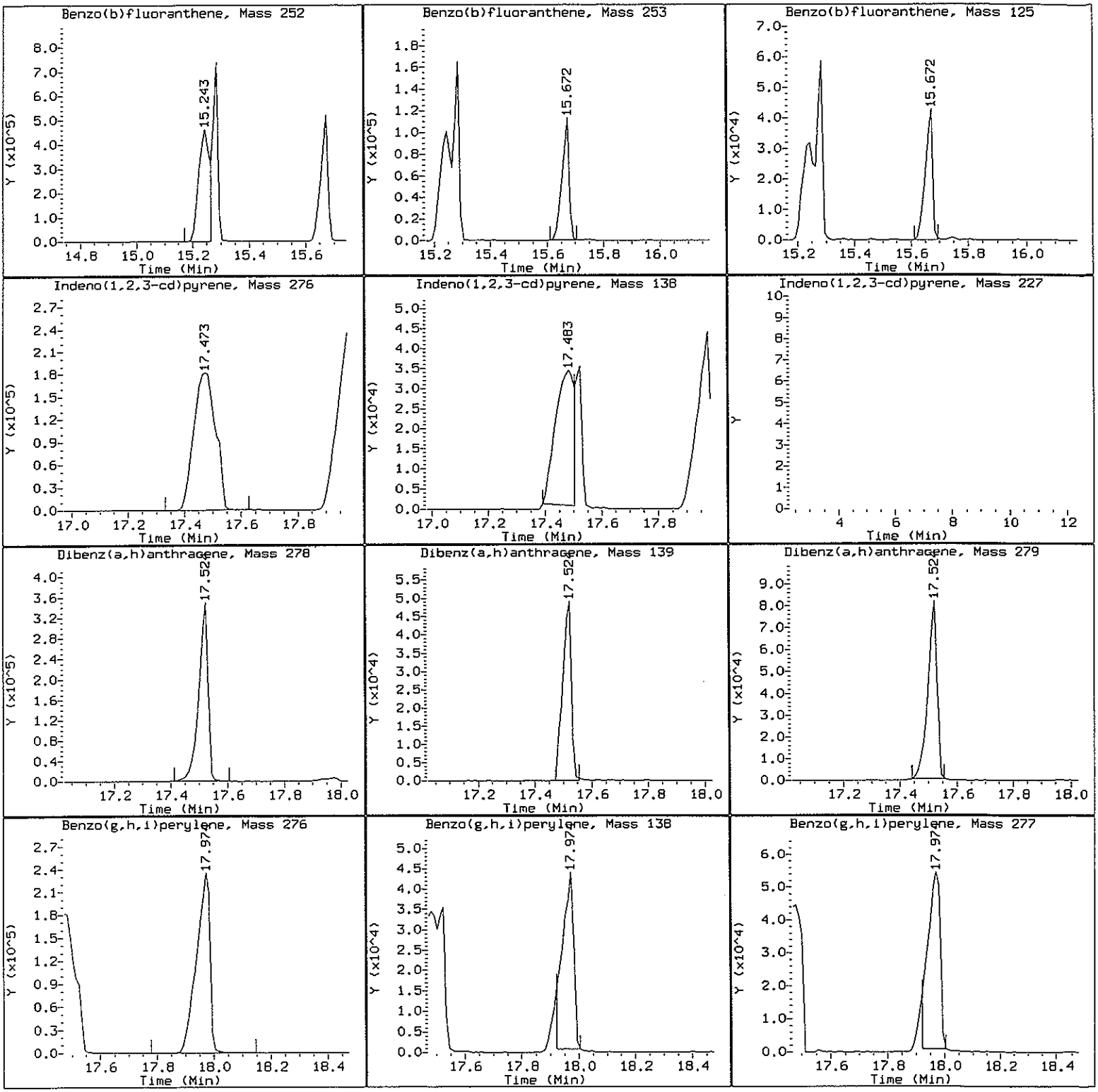
Datafile: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD02.D
Injection Date: 13-OCT-2004 10:50
Lab ID: Client ID:CURTIS&TOMPKINS



Signal Manual Integrations Report

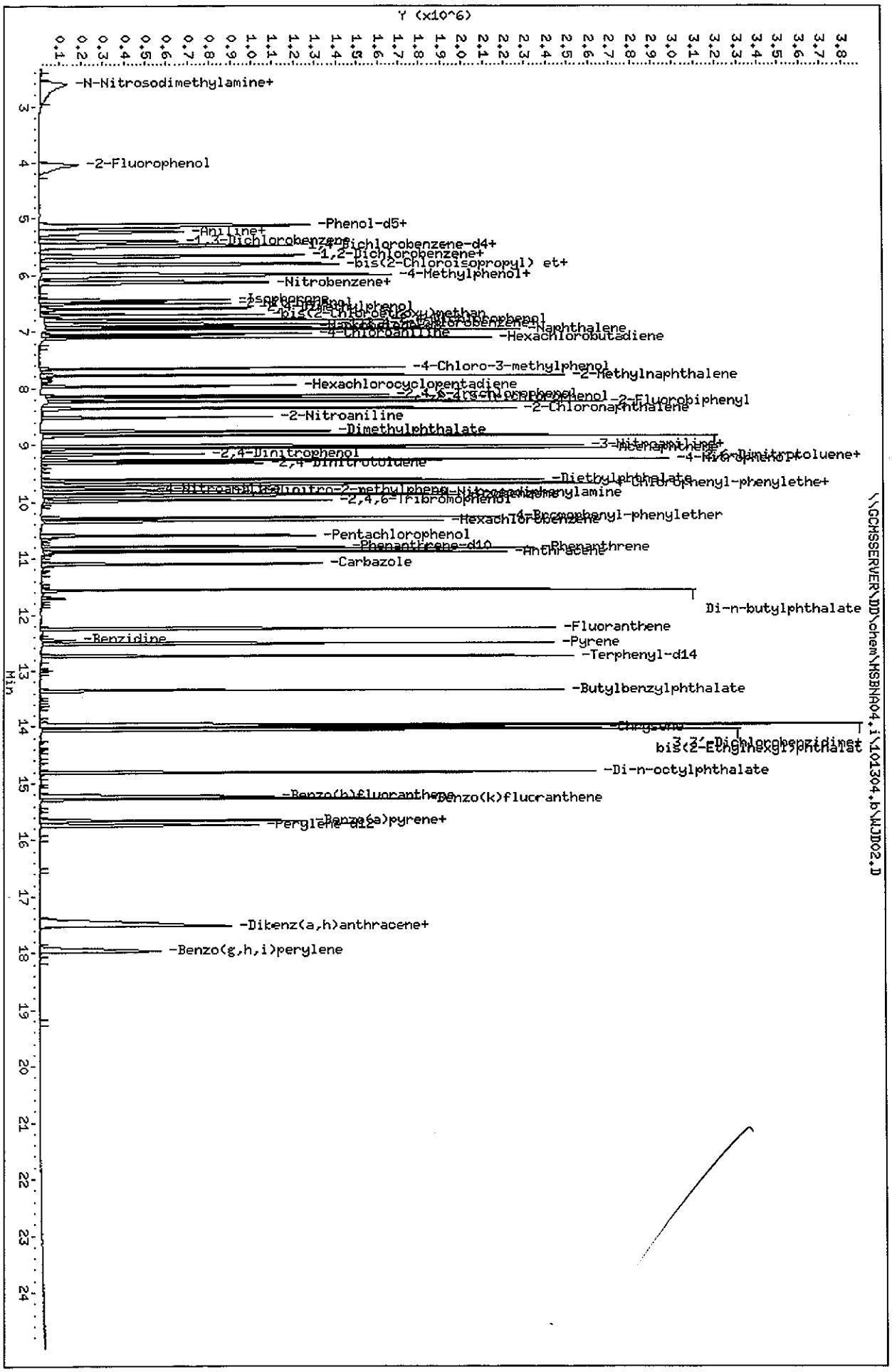
Report Date: 10/13/2004 11:28

Datafile: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD02.D
Injection Date: 13-OCT-2004 10:50
Lab ID: Client ID:CURTIS&TOMPKINS



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\101304.b\WJD02.D
Date : 13-OCT-2004 10:50
Client ID: CURTIS&TOMPKINS
Sample Info: CCV,04WS1899
Volume Injected (uL): 1.0
Column phase: Vti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



MOISTURE DATA

Percent Moisture Summary Report

Batch: 95274
Date: 10/08/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175141-002	10.9255	18.8777	18.5163	95	5
175141-003	15.2567	22.2113	22.1431	99	1
175141-004	15.0494	22.5615	22.4550	99	1
175141-005	11.0493	19.0626	18.9082	98	2
175141-006	10.9358	18.7028	18.6223	99	1
175141-007	10.9331	18.3537	18.2635	99	1
175141-010	15.5842	22.7842	22.6887	99	1
QC267285	10.9937	19.0930	18.9827	99	1
of 175141-010			RPD:	0.0%	2.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95274
Date Started: 07-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175141-002		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-003		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-004		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-005		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-006		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-007		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-010		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
QC267285	SDUP of 175141-010		Soil	MOISTURE	

10/7/04

95274

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	RA	11.0029	—	11.0028	
175141-2	A	RC	10.9255	18.8777	18.5163	
3		9A	15.2567	22.2113	22.1431	
4		103	15.0494	22.5615	22.4550	
5		B100	11.0493	19.8626	18.9082	
6		VED	10.9358	18.7028	18.6223	
7		24X	10.9331	18.3537	18.2435	
10		5X	15.5842	22.7842	22.6887	
DUP. 10		BDO	10.9937	19.8938	18.9827	

OVEN TEMP: 104°C
TIME IN: 5:30 P.M.
TIME OUT: 8:25 A.M. ON: 10-8-04

Continued on Page

Read and Understood By

R. Marnell 10-7-04 10/8/04
Signed Date Signed Date

Percent Moisture Summary Report

Batch: 95335
Date: 10/11/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175043-001	11.1875	18.1785	12.9724	26	74
175043-002	10.9942	18.0834	12.7766	25	75
175043-004	11.0707	18.3448	12.1390	15	85
175043-005	11.0521	19.4830	13.6454	31	69
175043-007	11.2430	18.3740	12.8000	22	78
175043-010	15.6101	22.4980	16.4261	12	88
175043-011	11.0427	19.1054	12.1676	14	86
175043-016	15.2570	20.7811	16.2340	18	82
175043-017	10.9328	16.1384	11.8770	18	82
175059-047	15.3163	22.1672	21.8631	96	4
175059-049	10.9900	18.5694	17.7573	89	11
175059-064	15.5723	22.1421	21.2435	86	14
175059-065	11.0035	18.5803	17.5199	86	14
175059-071	11.0500	18.7381	18.0219	91	9
175059-072	15.5826	22.3131	21.5802	89	11
175141-001	11.1350	19.2009	19.1169	99	1
175141-009	11.0717	19.5083	19.4316	99	1
175164-001	11.0658	18.5680	18.1558	95	5
QC267536 of 175043-011	15.7997	22.8207	16.7955	14	86
			RPD:	1.6%	0.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95335
Date Started: 11-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175043-001		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-002		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-004		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-005		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-007		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-010		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-011		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-016		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-017		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175059-047		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-049		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-064		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-065		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-071		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-072		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175141-001		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-009		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175164-001		Blasland, Bouck &	Soil	MOISTURE	14-OCT-2004
QC267536	SDUP of 175043-011		Miscell.	MOISTURE	

10/10/04

95335

Sample		B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	1D	15.7378	—	15.7378	
175059 -	47	A	117L	15.3163	22.1672	21.8631	
	49		2	10.9900	18.5694	17.7573	
	64		9D	15.5723	22.1421	21.2435	
	65		12A	11.0035	18.5603	17.5199	
	71		B11G	11.0500	18.7381	18.0219	
	72		5X	15.5826	22.3131	21.5602	
175043 -	1		DHW	11.1875	18.1785	12.9724	COMP. A-D
	2		B12D	10.9942	18.0834	12.7766	
	4		B10J	11.0707	18.3448	12.1390	COMP. A-Z
	5		B10O	11.0521	19.4830	13.6454	
	7		D	11.2430	18.3740	12.8000	
	10		3L	15.6101	22.4980	16.4261	
	11		B10Y	11.0427	19.1054	12.1974	
DMP	11		LOU	15.7997	22.8207	16.7955	
	16		9A	15.2570	20.7811	16.2340	COMP. A-B
	17		2AX	10.9328	16.1384	11.8770	COMP. A-B
175141 -	1		B11G	11.1350	19.2009	19.1169	
	9		B112	11.0717	19.5083	19.4316	
175164 -	1		[illegible]	11.0658	18.5680	18.1558	

OVEN TEMP: 105°C
TIME IN: 3:00 P.M.
TIME OUT: 9:57 A.M. ON: 10-11-04

Continued on Page

Read and Understood By

R. Moring 10-10-04 [illegible] 10/11/04
Signed Date Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

RECEIVED
NOV 19 2004
TREADWELL & ROLLO

Laboratory Number 175141
Total Extractable Hydrocarbons
Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
BB4EX100[0.5]	175141-001
DUP100704A	175141-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/16/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 10/07/04. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Curtis & Tompkins

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Dustin Sutherland
Recorder (Signature Required): [signature]

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Pesticides	PCBs	VOCs	SVOCs	Hg	Chlorinated Herbicides	TPH d/fg	Metals	Silica gel clean-up	Hold	Remarks
-1 BB4EX100[0.5]	10-7-04	1303		X						X		X	X	X	X	X	X	X	X	X		Analysis from bottom B.
-2 BB4EX101[0.5]		1323		X						X		X							X			
-3 BB4EX102[0.5]		1335		X						X		X							X			
-4 BB4EX103[0.5]		1355		X						X		X							X			
-5 BB4EX104[0.5]		1244		X						X		X							X			
-6 BB4EX105[0.5]		1340		X						X		X							X			
-7 BB4EX106[0.5]		1258		X						X		X							X			
-8 TB100704A		1400			X					X				X								
-9 DUP100704A		1304		X						X		X	X	X	X	X	X	X	X		X	DUP100704A
-10 BB4EX107[0.5]		1352		X						X		X	X						X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-7-04	1410	[signature]	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes: RECEIVED ON ICE

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: On ice

B. Login Phase
Date Logged In: 10/7/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Soil Cores in Plastic bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4. — Sample Dup 100704A on C.o.C, Label Dup 100604A, I.D'd by time.

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III		10/8/10/14
(All samples)					to Level IV		
					(8081, PCB		
					8260, 8270		
					HG, T26/ICP		
					TEHM)		

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	10/07/04
Units:	mg/Kg	Received:	10/07/04
Diln Fac:	1.000	Prepared:	10/08/04
Batch#:	95308		

Field ID:	BB4EX100[0.5]	Moisture:	1%
Type:	SAMPLE	Analyzed:	10/12/04
Lab ID:	175141-001	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	2.1 H Y	1.0	0.34
Motor Oil C24-C36	7.1 Y	5.0	2.4

Surrogate	%REC	Limits
Hexacosane	93	65-135

Field ID:	DUP100704A	Moisture:	1%
Type:	SAMPLE	Analyzed:	10/12/04
Lab ID:	175141-009	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.34
Motor Oil C24-C36	ND	5.1	2.4

Surrogate	%REC	Limits
Hexacosane	119	65-135

Type:	BLANK	Analyzed:	10/11/04
Lab ID:	QC267440	Cleanup Method:	EPA 3630C
Basis:	as received		

Analyte	Result	RL	MDL
Diesel C12-C24	ND	1.0	0.34
Motor Oil C24-C36	ND	5.0	2.4

Surrogate	%REC	Limits
Hexacosane	86	65-135

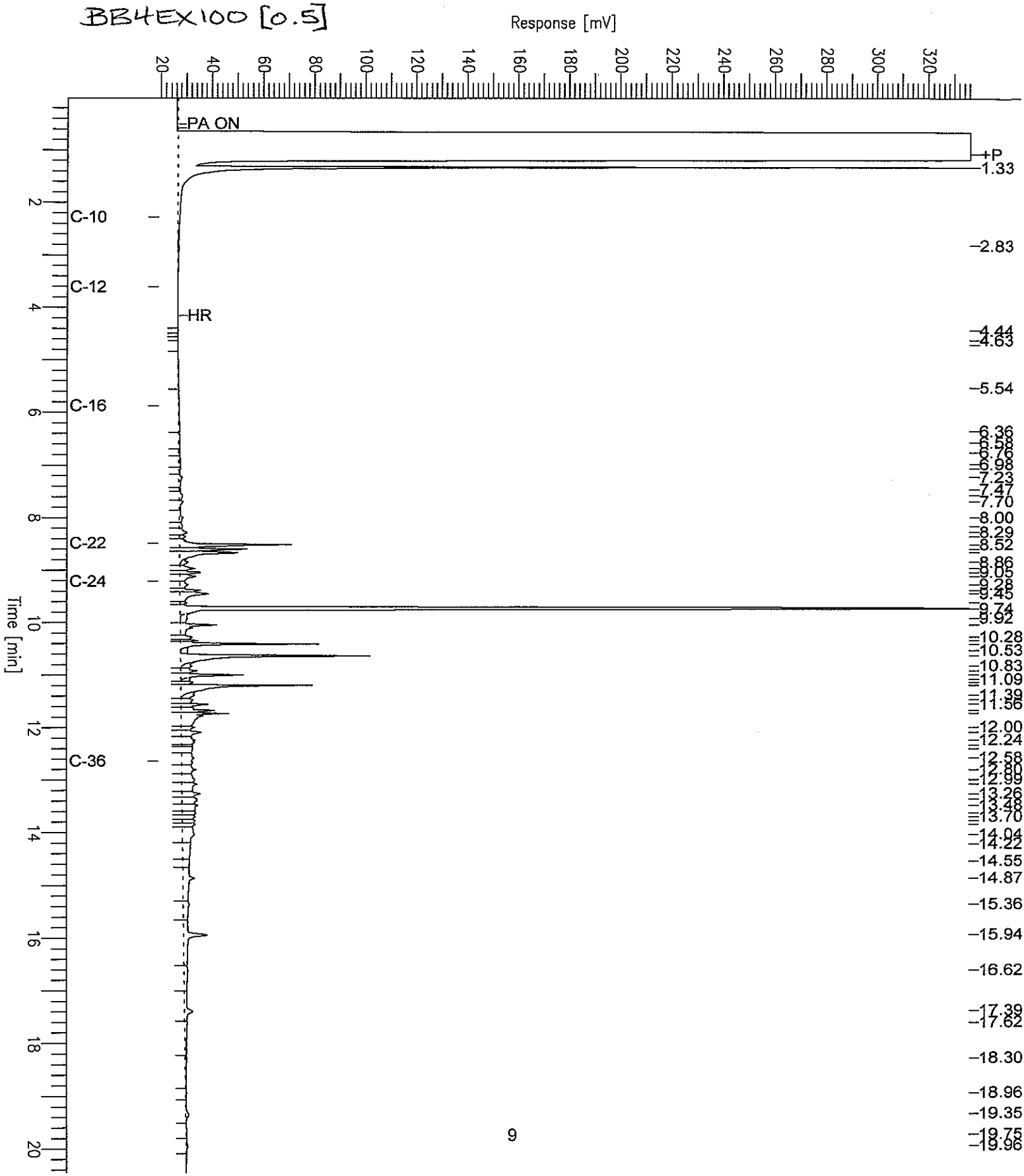
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Chromatogram

Sample Name : 175141-001sg,95308
FileName : G:\GC11\CHA\285A041.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 08:39 AM
Time of Injection: 10/12/04 06:04 AM
Low Point : 18.88 mV High Point : 336.24 mV
Plot Scale: 317.4 mV

BB4EX100 [0.5]



Chromatogram

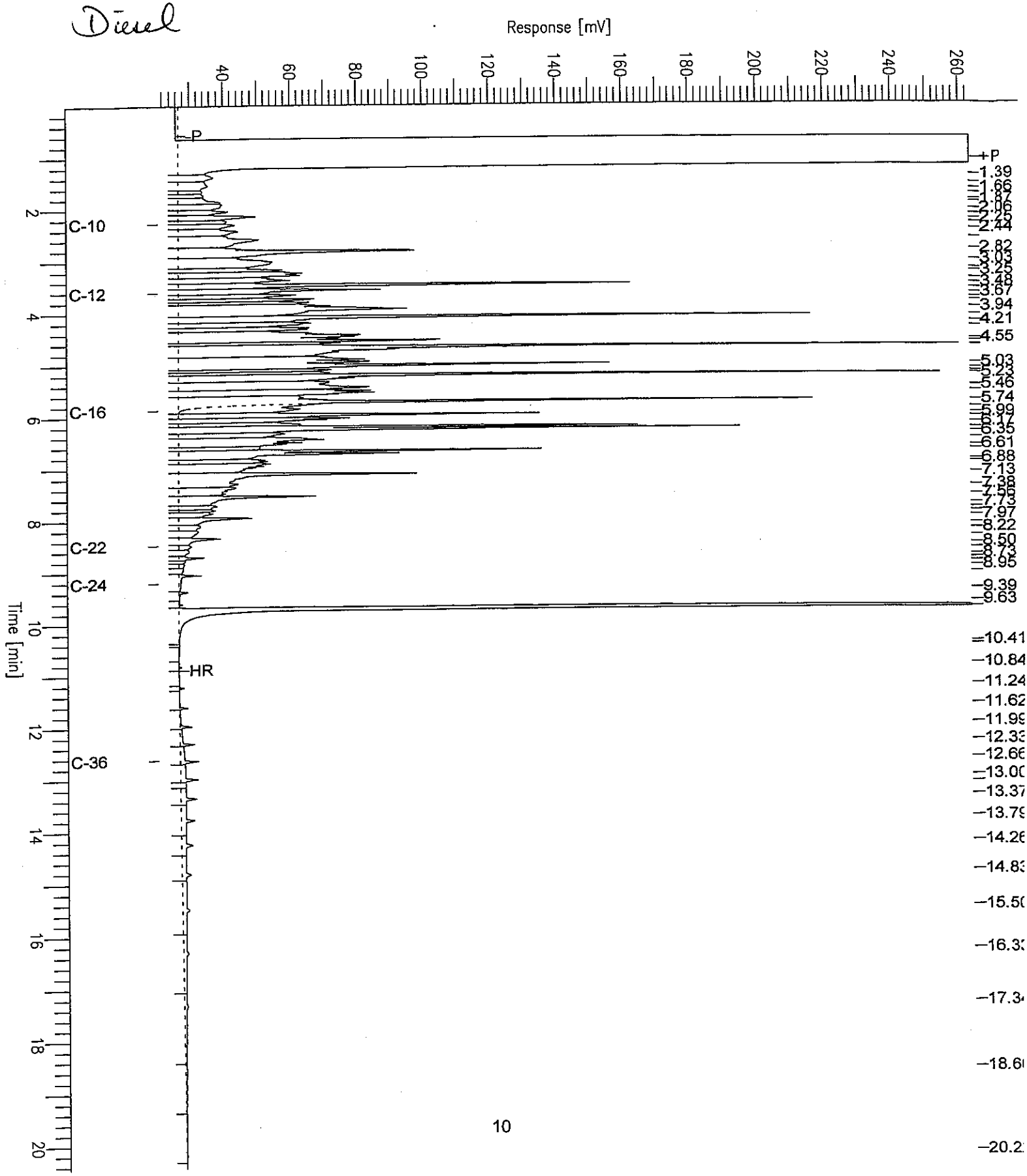
Sample Name : ccv,04ws1621,dsl
FileName : G:\GC11\CHA\285A003.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 21 mV

Sample #: 500mg/L
Date : 10/11/04 10:29 AM
Time of Injection: 10/11/04 09:59 AM
Low Point : 20.84 mV
Plot Scale: 242.3 mV

High Point : 263.15 mV

Diesel



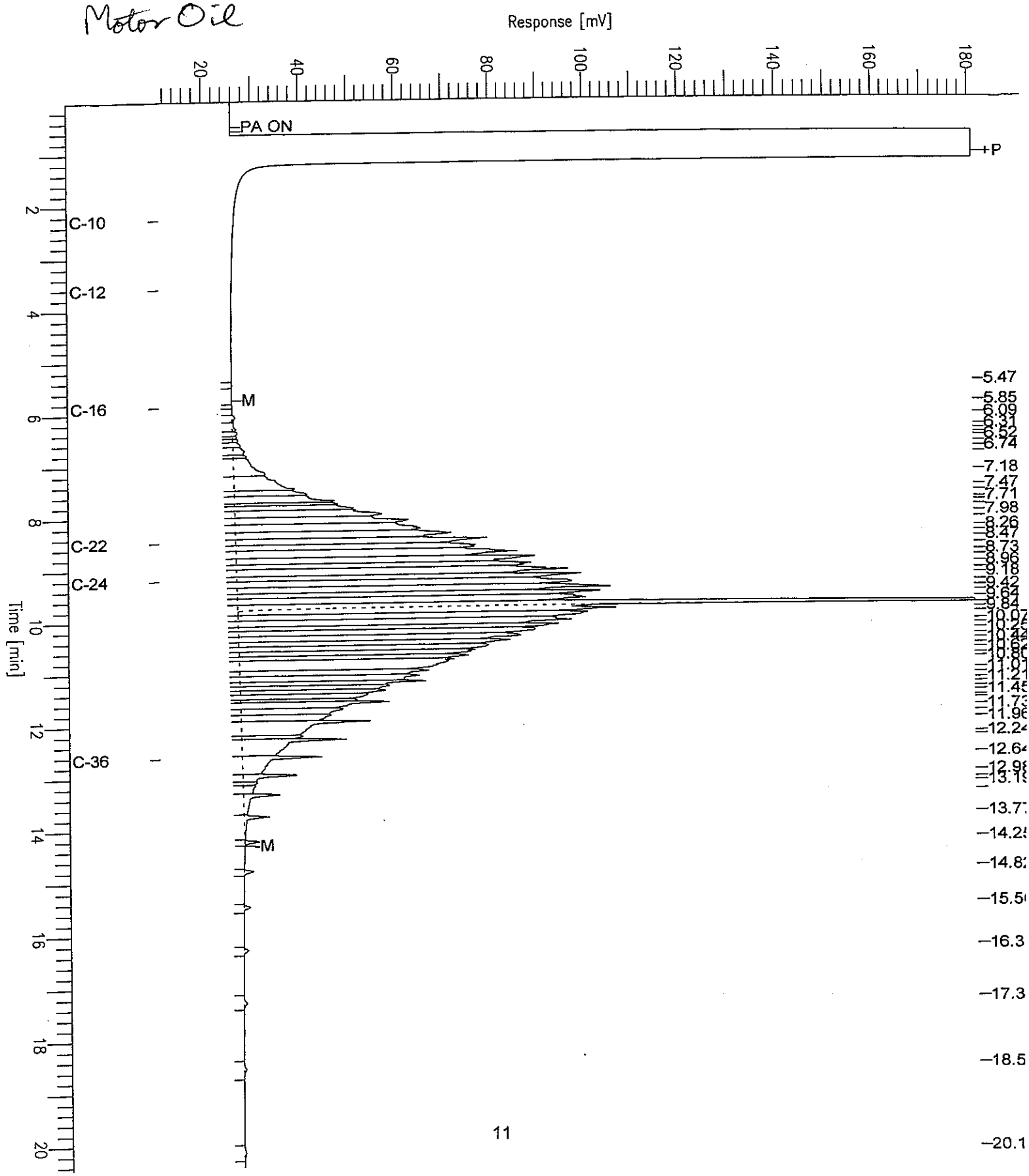
Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC11\CHA\285A004.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 11 mV

Sample #: 500mg/L
Date : 10/11/04 10:51 AM
Time of Injection: 10/11/04 10:28 AM
Low Point : 11.15 mV
Plot Scale: 169.6 mV

Motor Oil



Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC267441	Batch#:	95308
Matrix:	Soil	Prepared:	10/08/04
Units:	mg/Kg	Analyzed:	10/11/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	49.92	45.51	91	65-135

Surrogate	%REC	Limits
Hexacosane	92	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	DUP100704A	Batch#:	95308
MSS Lab ID:	175141-009	Sampled:	10/07/04
Matrix:	Soil	Received:	10/07/04
Units:	mg/Kg	Prepared:	10/08/04
Basis:	dry	Analyzed:	10/12/04
Diln Fac:	1.000		

Type:	MS	Moisture:	1%
Lab ID:	QC267442	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	0.5601	50.19	42.73	84	65-135

Surrogate	%REC	Limits
Hexacosane	91	65-135

Type:	MSD	Moisture:	1%
Lab ID:	QC267443	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	50.56	50.98	100	65-135	17	35

Surrogate	%REC	Limits
Hexacosane	109	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: CW
Calnum: 114295755001 Name: mo Type: (normal) Date: 23-JUL-2004 17:32 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	205a013	114295755013	mo	23-JUL-2004 17:32	04WS1208
2	205a014	114295755014	mo	23-JUL-2004 18:01	04WS1209
3	205a015	114295755015	mo	23-JUL-2004 18:30	04WS1210
4	205a016	114295755016	mo	23-JUL-2004 18:59	04WS1211
5	205a017	114295755017	mo	23-JUL-2004 19:28	04WS1212
6	205a018	114295755018	mo	23-JUL-2004 19:57	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	Units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	14945	17893	17883	17772	17977	18783	AVRG R		5.701E-5		mg/L	17542	8	0.995	20	

14

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MMP
Calnum: 114306371001 Name: Diesel Type: (normal) Date: 30-JUL-2004 18:40 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	212a002	114306371002	dsl	30-JUL-2004 18:40	04WS1223
2	212a003	114306371003	dsl	30-JUL-2004 19:09	04WS1222
3	212a004	114306371004	dsl	30-JUL-2004 19:38	04WS1221
4	212a005	114306371005	dsl	30-JUL-2004 20:06	04WS1220
5	212a006	114306371006	dsl	30-JUL-2004 20:35	04WS1219
6	212a007	114306371007	dsl	30-JUL-2004 21:04	04WS1218
7	212a008	114306371008	dsl	30-JUL-2004 21:34	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Diesel C12-C24	14868	23061	23163	23188	23874	24159	23112	AVRG R		4.504E-5		mg/L	22204	15	0.995	20	

15

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC11A Calname : Diesel
Calnum : 114306371001 Caldate : 30-JUL-2004 Caltype :

Analyte	Ch	ICV Seqnum	Date	Spiked Quant	Units	%D
Diesel C12-C24	A	114306371010	30-JUL-2004	500.00 479.77	mg/L	-4

INITIAL CALIBRATION REPORT FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114345124001 Name: Hexacosane Type: (normal) Date: 26-AUG-2004 16:33 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	239a002	114345124002	hex5	26-AUG-2004 16:33	04WS0533
2	239a003	114345124003	hex10	26-AUG-2004 17:01	04WS0534
3	239a004	114345124004	hex25	26-AUG-2004 17:31	04WS0535
4	239a005	114345124005	hex50	26-AUG-2004 18:00	04WS0536
5	239a006	114345124006	hex75	26-AUG-2004 18:29	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	27977	28767	30205	30063	33677	AVRG R		3.318E-5		mg/L	30138	7	0.995	20	

17

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg Rf/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114410940021	11-OCT-2004 20:18	114306371001	30-JUL-2004	22204	21651	250.00	243.78	mg/L	-2	15	
GC11A	A	114410940035	12-OCT-2004 03:08	114306371001	30-JUL-2004	22204	21683	500.00	488.28	mg/L	-2	15	
GC11A	A	114410940048	12-OCT-2004 09:30	114306371001	30-JUL-2004	22204	23032	1000.0	1037.3	mg/L	4	15	

CONTINUING CALIBRATION SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114410940023	11-OCT-2004 21:17	114295755001	23-JUL-2004	17542	16497	500.00	470.20	mg/L	-6	15	
GC11A	A	114410940037	12-OCT-2004 04:07	114295755001	23-JUL-2004	17542	16916	500.00	482.14	mg/L	-4	15	
GC11A	A	114410940050	12-OCT-2004 10:28	114295755001	23-JUL-2004	17542	16383	500.00	466.97	mg/L	-7	15	

CONTINUING CALIBRATION SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114410940021	11-OCT-2004 20:18	114345124001	26-AUG-2004	30138	31896	50.000	52.917	mg/L	6	15	
GC11A	A	114410940035	12-OCT-2004 03:08	114345124001	26-AUG-2004	30138	32776	50.000	54.377	mg/L	9	15	
GC11A	A	114410940048	12-OCT-2004 09:30	114345124001	26-AUG-2004	30138	33254	50.000	55.171	mg/L	10	15	

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114295755 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	205a001	X	ib			23-JUL-2004 09:15	1.0					
002	205a002	CCV	dsl			23-JUL-2004 10:51	1.0	1.0		3	1	
003	205a003	CCV	mo			23-JUL-2004 11:19	1.0	1.0	4	3	2	
004	205a004	CCV	jp5			23-JUL-2004 12:01	1.0	1.0		3	3	
005	205a005	X	ib			23-JUL-2004 13:02	1.0					
006	205a006	CCV	dsl			23-JUL-2004 13:31	1.0	1.0		3	4	
007	205a007	CCV	mo			23-JUL-2004 14:00	1.0	1.0	4	3	2	
008	205a008	CCV	jp5			23-JUL-2004 14:29	1.0	1.0		3	3	
009	205a009	SAMPLE	173486-003	93011	Water	23-JUL-2004 15:04	1.0					
010	205a010	SAMPLE	173486-003	93011	Water	23-JUL-2004 15:48	1.0	0.005		3		
011	205a011	CCV	jp5			23-JUL-2004 16:17	1.0	1.0		3	3	
012	205a012	X	ib			23-JUL-2004 17:03	1.0					
013	205a013	ICAL	mo			23-JUL-2004 17:32	1.0	1.0			5	
014	205a014	ICAL	mo			23-JUL-2004 18:01	1.0	1.0			6	
015	205a015	ICAL	mo			23-JUL-2004 18:30	1.0	1.0			7	
016	205a016	ICAL	mo			23-JUL-2004 18:59	1.0	1.0			8	
017	205a017	ICAL	mo			23-JUL-2004 19:28	1.0	1.0			9	
018	205a018	ICAL	mo			23-JUL-2004 19:57	1.0	1.0			10	
019	205a019	X	ib			23-JUL-2004 20:26	1.0					
020	205a020	CCV	mo			23-JUL-2004 20:54	1.0	1.0		3	2	

Stds used: 1=04WS1144 2=04WS1249 3=04WS0513 4=04WS1011 5=04WS1208 6=04WS1209 7=04WS1210 8=04WS1211 9=04WS1212 10=04WS1012

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114306371 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 30-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	212a001	X	ib			30-JUL-2004 18:11	1.0						
002	212a002	ICAL	dsl			30-JUL-2004 18:40	1.0					1	
003	212a003	ICAL	dsl			30-JUL-2004 19:09	1.0					2	
004	212a004	ICAL	dsl			30-JUL-2004 19:38	1.0					3	
005	212a005	ICAL	dsl			30-JUL-2004 20:06	1.0					4	
006	212a006	ICAL	dsl			30-JUL-2004 20:35	1.0					5	
007	212a007	ICAL	dsl			30-JUL-2004 21:04	1.0					6	
008	212a008	ICAL	dsl			30-JUL-2004 21:34	1.0					7	
009	212a009	X	ib			30-JUL-2004 22:03	1.0						
010	212a010	ICV	dsl			30-JUL-2004 22:32	1.0		3			8	
011	212a011	X	ib			30-JUL-2004 23:01	1.0						
012	212a012	CCV	dsl			30-JUL-2004 23:30	1.0		3			9	

22

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS0983 9=04WS1410

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114345124 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	239a001	X	ib			26-AUG-2004 16:04	1.0					
002	239a002	ICAL	hex5			26-AUG-2004 16:33	1.0	1.0			1	
003	239a003	ICAL	hex10			26-AUG-2004 17:01	1.0	1.0			2	
004	239a004	ICAL	hex25			26-AUG-2004 17:31	1.0	1.0			3	
005	239a005	ICAL	hex50			26-AUG-2004 18:00	1.0	1.0			4	
006	239a006	ICAL	hex75			26-AUG-2004 18:29	1.0	1.0			5	
007	239a007	X	ib			26-AUG-2004 19:00	1.0					
008	239a008	X	ccv			26-AUG-2004 19:29	1.0				6	
009	239a009	CCV	dsl			26-AUG-2004 19:58	1.0	1.0		3	6	
010	239a010	CCV	mo			26-AUG-2004 20:27	1.0	1.0		3	7	
011	239a011	X	QC262344	94019	Soil	26-AUG-2004 20:56	1.0	0.09925		3		1:BUNKC:=5096.99
012	239a012	MS	QC262388	94027	Soil	26-AUG-2004 21:25	3.0	0.09978		3		
013	239a013	MSD	QC262389	94027	Soil	26-AUG-2004 21:54	3.0	0.09992		3		
014	239a014	MS	QC262520	94065	Soil	26-AUG-2004 22:23	1.0	0.09917		3		
015	239a015	MSD	QC262521	94065	Soil	26-AUG-2004 22:52	1.0	0.09919		3		
016	239a016	LCS	QC262519	94065	Soil	26-AUG-2004 23:21	1.0	0.1006		3		
017	239a017	BLANK	QC262518	94065	Soil	26-AUG-2004 23:50	1.0	0.1006	6	3		
018	239a018	SAMPLE	174129-021	94065	Soil	27-AUG-2004 00:19	5.0	0.1005		3		
019	239a019	SAMPLE	174129-022	94065	Soil	27-AUG-2004 00:49	1.0	0.09968		3		
020	239a020	SAMPLE	174129-023	94065	Soil	27-AUG-2004 01:18	1.0	0.09942		3		
021	239a021	X	ccv			27-AUG-2004 01:47	1.0				8	
022	239a022	CCV	dsl			27-AUG-2004 02:16	1.0	1.0		3	8	
023	239a023	CCV	mo			27-AUG-2004 02:45	1.0	1.0		3	7	
024	239a024	SAMPLE	174129-024	94065	Soil	27-AUG-2004 03:14	1.0	0.1002		3		
025	239a025	SAMPLE	174129-025	94065	Soil	27-AUG-2004 03:43	1.0	0.1006		3		
026	239a026	SAMPLE	174129-026	94065	Soil	27-AUG-2004 04:12	1.0	0.1002		3		
027	239a027	SAMPLE	174130-003	94065	Soil	27-AUG-2004 04:41	1.0	0.1004		3		
028	239a028	SAMPLE	174130-007	94065	Soil	27-AUG-2004 05:10	1.0	0.09988		3		
029	239a029	SAMPLE	174130-009	94065	Soil	27-AUG-2004 05:39	1.0	0.09984		3		
030	239a030	SAMPLE	174130-013	94065	Soil	27-AUG-2004 06:08	1.0	0.0994		3		
031	239a031	SAMPLE	174130-016	94065	Soil	27-AUG-2004 06:37	1.0	0.1000		3		

Stds used: 1=04WS0533 2=04WS0534 3=04WS0535 4=04WS0536 5=04WS0537 6=04WS1410 7=04WS1564 8=04WS1324 9=04WS1563 10=04WS1332 11=04W

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114345124 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	239a032	SAMPLE	174130-020	94065	Soil	27-AUG-2004 07:06	1.0	0.1002			3		
033	239a033	MSS	174132-005	94065	Soil	27-AUG-2004 07:34	1.0	0.1002	6		3		
034	239a034	X	ccv			27-AUG-2004 08:03	1.0					9	
035	239a035	CCV	dsl			27-AUG-2004 08:34	1.0	1.0			3	9	
036	239a036	CCV	mo			27-AUG-2004 09:03	1.0	1.0			3	7	
037	239a037	SAMPLE	174273-002 S	94122	Soil	27-AUG-2004 09:39	1.0	0.1002		1	3		
038	239a038	MSS	174273-001 S	94122	Soil	27-AUG-2004 10:07	1.0	0.1002	6		3		1:BUNKC:=5203.48
039	239a039	SAMPLE	174273-004 S	94122	Soil	27-AUG-2004 10:36	1.0	0.1005			3		
040	239a040	SAMPLE	174273-005 S	94122	Soil	27-AUG-2004 11:11	3.0	0.09944			3		
041	239a041	SAMPLE	174273-021 S	94122	Soil	27-AUG-2004 11:40	3.0	0.2013			3		1:BUNKC:=6421.85
042	239a042	SAMPLE	174273-022 S	94122	Soil	27-AUG-2004 12:09	10.0	0.1009			3		
043	239a043	X	ib			27-AUG-2004 12:38	1.0						
044	239a044	SAMPLE	174273-023	94122	Soil	27-AUG-2004 13:07	20.0	0.09929			3		1:BUNKC:=5674.66
045	239a045	BS	QC262446 S	94043	Water	27-AUG-2004 13:40	1.0	0.005			3		
046	239a046	BSD	QC262447 S	94043	Water	27-AUG-2004 14:09	1.0	0.005			3		
047	239a047	BLANK	QC262445 S	94043	Water	27-AUG-2004 14:38	1.0	0.005	6		3		
048	239a048	CCV	dsl			27-AUG-2004 16:13	1.0	1.0			3	6	
049	239a049	CCV	mo			27-AUG-2004 16:44	1.0	1.0			3	7	
050	239a050	SAMPLE	174145-001 S	94043	Water	27-AUG-2004 17:31	1.0	0.005			3		
051	239a051	SAMPLE	174145-002 S	94043	Water	27-AUG-2004 18:00	1.0	0.005			3		
052	239a052	SAMPLE	174150-001 S	94043	Water	27-AUG-2004 18:30	1.0	0.005			3		
053	239a053	SAMPLE	174150-002 S	94043	Water	27-AUG-2004 19:01	1.0	0.005			3		
054	239a054	SAMPLE	174150-003 S	94043	Water	27-AUG-2004 19:30	1.0	0.005			3		
055	239a055	SAMPLE	174150-004 S	94043	Water	27-AUG-2004 19:59	1.0	0.005			3		1:BUNKC:=7813.32
056	239a056	SAMPLE	174150-005 S	94043	Water	27-AUG-2004 20:28	1.0	0.005			3		
057	239a057	SAMPLE	174150-006 S	94043	Water	27-AUG-2004 20:57	1.0	0.005			3		
058	239a058	SAMPLE	174150-007 S	94043	Water	27-AUG-2004 21:26	1.0	0.005			3		
059	239a059	SAMPLE	174150-008 S	94043	Water	27-AUG-2004 21:54	1.0	0.005			3		
060	239a060	X	ccv			27-AUG-2004 22:23	1.0					8	
061	239a061	CCV	dsl			27-AUG-2004 22:52	1.0	1.0			3	8	
062	239a062	CCV	mo			27-AUG-2004 23:21	1.0	1.0			3	7	

Stds used: 1=04WS0533 2=04WS0534 3=04WS0535 4=04WS0536 5=04WS0537 6=04WS1410 7=04WS1564 8=04WS1324 9=04WS1563 10=04WS1332 11=04W

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114345124 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
063	239a063	SAMPLE	174150-009 S	94043	Water	27-AUG-2004 23:50	1.0	0.005			3		
064	239a064	SAMPLE	174150-010 S	94043	Water	28-AUG-2004 00:19	1.0	0.005			3		
065	239a065	SAMPLE	174150-011 S	94043	Water	28-AUG-2004 00:48	1.0	0.005			3		
066	239a066	SAMPLE	174150-012 S	94043	Water	28-AUG-2004 01:17	1.0	0.005			3		
067	239a067	SAMPLE	174150-013 S	94043	Water	28-AUG-2004 01:46	1.0	0.005			3		
068	239a068	SAMPLE	174150-014 S	94043	Water	28-AUG-2004 02:15	1.0	0.005			3		
069	239a069	SAMPLE	174150-015 S	94043	Water	28-AUG-2004 02:43	1.0	0.005			3		
070	239a070	SAMPLE	174150-016 S	94043	Water	28-AUG-2004 03:12	1.0	0.005			3		
071	239a071	SAMPLE	174150-017 S	94043	Water	28-AUG-2004 03:41	1.0	0.005			3		
072	239a072	X	ccv			28-AUG-2004 04:11	1.0					9	
073	239a073	CCV	dsl			28-AUG-2004 04:40	1.0	1.0			3	9	
074	239a074	CCV	mo			28-AUG-2004 05:08	1.0	1.0			3	7	
075	239a075	CCV	jp5			28-AUG-2004 05:37	1.0	1.0	1		3	10	
076	239a076	X	ib			28-AUG-2004 11:39	1.0						
077	239a077	BS	QC262508 S	94062	Water	28-AUG-2004 12:08	1.0	0.005			3		
078	239a078	BSD	QC262509 S	94062	Water	28-AUG-2004 12:37	1.0	0.005			3		
079	239a079	SAMPLE	174133-022	94057	Soil	28-AUG-2004 13:08	1.0	0.1000		1	3		
080	239a080	SAMPLE	174133-029	94065	Soil	28-AUG-2004 13:38	1.0	0.09984		1	3		
081	239a081	SAMPLE	174133-019	94057	Soil	28-AUG-2004 14:07	1.0	0.1006			3		
082	239a082	LCS	QC262840 S	94147	Soil	28-AUG-2004 14:36	1.0	0.1007			3		
083	239a083	LCS	QC262840	94147	Soil	28-AUG-2004 15:05	1.0	0.1007			3		
084	239a084	SAMPLE	174180-007 S	94147	Soil	28-AUG-2004 15:34	1.0	0.09976			3		
085	239a085	X	ccv			28-AUG-2004 16:03	1.0					6	
086	239a086	CCV	dsl			28-AUG-2004 16:32	1.0	1.0			3	6	
087	239a087	CCV	mo			28-AUG-2004 17:01	1.0	1.0			3	7	
088	239a088	CCV	hyfl			28-AUG-2004 17:30	1.0	1.0			3	11	
089	239a089	SAMPLE	174158-021 S	94147	Soil	28-AUG-2004 17:59	1.0	0.1008			3		
090	239a090	BLANK	QC262839 S	94147	Soil	28-AUG-2004 18:28	1.0	0.1006	3		3		
091	239a091	BLANK	QC262839	94147	Soil	28-AUG-2004 18:57	1.0	0.1006	3		3		
092	239a092	SAMPLE	174158-022 S	94147	Soil	28-AUG-2004 19:25	1.0	0.09929		1	3		
093	239a093	SAMPLE	174186-004 S	94147	Soil	28-AUG-2004 19:54	1.0	0.09994			3		

Stds used: 1=04WS0533 2=04WS0534 3=04WS0535 4=04WS0536 5=04WS0537 6=04WS1410 7=04WS1564 8=04WS1324 9=04WS1563 10=04WS1332 11=04W

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114345124 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 26-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	239a094	SAMPLE	174186-002 S	94147	Soil	28-AUG-2004 20:23	1.0	0.09992		1	3		
095	239a095	SAMPLE	174186-003 S	94147	Soil	28-AUG-2004 20:52	1.0	0.1004			3		
096	239a096	SAMPLE	174133-016	94147	Soil	28-AUG-2004 21:21	1.0	0.1007			3		
097	239a097	SAMPLE	174186-005 S	94147	Soil	28-AUG-2004 21:49	1.0	0.09936			3		
098	239a098	SAMPLE	174180-027 S	94147	Soil	28-AUG-2004 22:20	1.0	0.0997		1	3		
099	239a099	X	ccv			28-AUG-2004 22:50	1.0					8	
100	239a100	CCV	dsl			28-AUG-2004 23:19	1.0	1.0			3	8	
101	239a101	CCV	mo			28-AUG-2004 23:48	1.0	1.0			3	7	
102	239a102	CCV	hyfl			29-AUG-2004 00:17	1.0	1.0			3	11	
103	239a103	SAMPLE	174186-006 S	94147	Soil	29-AUG-2004 00:46	1.0	0.09948			3		
104	239a104	SAMPLE	174186-008 S	94147	Soil	29-AUG-2004 01:15	1.0	0.09936			3		
105	239a105	SAMPLE	174186-009 S	94147	Soil	29-AUG-2004 01:45	1.0	0.1007			3		
106	239a106	SAMPLE	174180-024 S	94147	Soil	29-AUG-2004 02:14	1.0	0.1004			3		
107	239a107	SAMPLE	174186-001 S	94147	Soil	29-AUG-2004 02:43	1.0	0.1000			3		1:BUNKC:=5958.18
108	239a108	SAMPLE	174186-007 S	94147	Soil	29-AUG-2004 03:12	1.0	0.09964			3		1:BUNKC:=6410.81
109	239a109	X	174253-001	94147	Soil	29-AUG-2004 03:41	1.0	0.1002			3		7:BUNKC:=29580.6
110	239a110	MS	QC262841	94147	Soil	29-AUG-2004 04:10	1.0	0.0997			3		8:BUNKC:=27522.5
111	239a111	MSD	QC262842	94147	Soil	29-AUG-2004 04:38	1.0	0.09982			3		8:BUNKC:=25186.5
112	239a112	SAMPLE	174133-032	94147	Soil	29-AUG-2004 05:07	1.0	0.09978	1		3		2:BUNKC:=8880.84
113	239a113	X	ib			29-AUG-2004 05:36	1.0						
114	239a114	X	ib			29-AUG-2004 06:05	1.0						
115	239a115	X	ccv			29-AUG-2004 06:34	1.0					9	
116	239a116	CCV	dsl			29-AUG-2004 07:03	1.0	1.0			3	9	
117	239a117	CCV	mo			29-AUG-2004 07:32	1.0	1.0			3	7	
118	239a118	CCV	hyfl			29-AUG-2004 08:01	1.0	1.0			3	11	

Stds used: 1=04WS0533 2=04WS0534 3=04WS0535 4=04WS0536 5=04WS0537 6=04WS1410 7=04WS1564 8=04WS1324 9=04WS1563 10=04WS1332 11=04W

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114410940 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 11-OCT-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	285a001	X	primer			11-OCT-2004 09:00	1.0						
002	285a002	X	ib			11-OCT-2004 09:29	1.0						
003	285a003	CCV	dsl			11-OCT-2004 09:59	1.0	1.0			3	1	
004	285a004	CCV	mo			11-OCT-2004 10:28	1.0	1.0			3	2	
005	285a005	SAMPLE	175121-012	95277	Soil	11-OCT-2004 11:03	5.0	0.1004			3		
006	285a006	SAMPLE	175121-009	95277	Soil	11-OCT-2004 11:32	40.0	0.1985			3		
007	285a007	X	ib			11-OCT-2004 12:01	1.0						
008	285a008	CCV	dsl			11-OCT-2004 12:31	1.0	1.0			3	3	
009	285a009	CCV	mo			11-OCT-2004 13:00	1.0	1.0			3	2	
010	285a010	CCV	jet			11-OCT-2004 14:46	1.0	1.0			3	4	
011	285a011	SAMPLE	175092-003	95293	Soil	11-OCT-2004 15:15	25.0	0.1003			3		2:BUNKC:=7667.26
012	285a012	SAMPLE	175092-003 S	95293	Soil	11-OCT-2004 15:45	20.0	0.1003			3		2:BUNKC:=8966.16
013	285a013	SAMPLE	175092-004	95293	Soil	11-OCT-2004 16:15	10.0	0.1004			3		1:JP5:10=3117.63
014	285a014	SAMPLE	175092-004 S	95293	Soil	11-OCT-2004 16:45	10.0	0.1004			3		
015	285a015	SAMPLE	175092-010	95308	Soil	11-OCT-2004 17:21	1.0	0.1004			3		
016	285a016	SAMPLE	175092-011	95308	Soil	11-OCT-2004 17:51	1.0	0.09984			3		
017	285a017	SAMPLE	175092-009	95308	Soil	11-OCT-2004 18:21	1.0	0.1003			3		
018	285a018	SAMPLE	175092-010 S	95308	Soil	11-OCT-2004 18:50	1.0	0.1004			3		
019	285a019	SAMPLE	175092-011 S	95308	Soil	11-OCT-2004 19:20	1.0	0.09984		1	3		
020	285a020	SAMPLE	175092-009 S	95308	Soil	11-OCT-2004 19:49	1.0	0.1003		1	3		
021	285a021	CCV	dsl			11-OCT-2004 20:18	1.0	1.0			3	5	
022	285a022	X	ccv			11-OCT-2004 20:47	1.0					5	
023	285a023	CCV	mo			11-OCT-2004 21:17	1.0	1.0			3	2	
024	285a024	CCV	jet			11-OCT-2004 21:46	1.0	1.0			3	4	
025	285a025	BLANK	QC267440 S	95308	Soil	11-OCT-2004 22:15	1.0	0.09996	5		3		
026	285a026	LCS	QC267441 S	95308	Soil	11-OCT-2004 22:45	1.0	0.09984			3		
027	285a027	SAMPLE	175138-001 S	95308	Soil	11-OCT-2004 23:14	1.0	0.09942			3		
028	285a028	SAMPLE	175138-002 S	95308	Soil	11-OCT-2004 23:43	1.0	0.1002			3		
029	285a029	SAMPLE	175138-003 S	95308	Soil	12-OCT-2004 00:12	1.0	0.09984			3		
030	285a030	SAMPLE	175138-004 S	95308	Soil	12-OCT-2004 00:42	1.0	0.1001			3		1:BUNKC:=6928.30
031	285a031	SAMPLE	175138-005 S	95308	Soil	12-OCT-2004 01:11	1.0	0.1003			3		

Stds used: 1=04WS1621 2=04WS1793 3=04WS1579 4=04WS1699 5=04WS1563

SEQUENCE SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114410940 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 11-OCT-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	285a032	SAMPLE	175139-001 S	95308	Soil	12-OCT-2004 01:41	1.0	0.09936	1		3		5:JP5:10=9606.01
033	285a033	SAMPLE	175148-001 S	95308	Soil	12-OCT-2004 02:10	1.0	0.09927			3		
034	285a034	SAMPLE	175148-002 S	95308	Soil	12-OCT-2004 02:39	1.0	0.1001			3		
035	285a035	CCV	dsl			12-OCT-2004 03:08	1.0	1.0			3	1	
036	285a036	X	ccv			12-OCT-2004 03:38	1.0					1	
037	285a037	CCV	mo			12-OCT-2004 04:07	1.0	1.0			3	2	
038	285a038	CCV	jet			12-OCT-2004 04:36	1.0	1.0			3	4	
039	285a039	SAMPLE	175149-001 S	95308	Soil	12-OCT-2004 05:05	1.0	0.09982	2		3		3:BUNKC:=16228.8
040	285a040	SAMPLE	175150-001 S	95308	Soil	12-OCT-2004 05:35	1.0	0.09982			3		
041	285a041	SAMPLE	175141-001 S	95308	Soil	12-OCT-2004 06:04	1.0	0.0997			3		
042	285a042	MSS	175141-009 S	95308	Soil	12-OCT-2004 06:34	1.0	0.1001	5		3		
043	285a043	SAMPLE	175015-004 S	95308	Soil	12-OCT-2004 07:03	1.0	0.09915			3		1:BUNKC:=6806.95
044	285a044	SAMPLE	175015-006 S	95308	Soil	12-OCT-2004 07:32	1.0	0.09968			3		
045	285a045	SAMPLE	175015-009 S	95308	Soil	12-OCT-2004 08:02	1.0	0.09964		1	3		
046	285a046	MS	QC267442 S	95308	Soil	12-OCT-2004 08:31	1.0	0.09938			3		
047	285a047	MSD	QC267443 S	95308	Soil	12-OCT-2004 09:00	1.0	0.1001			3		
048	285a048	CCV	dsl			12-OCT-2004 09:30	1.0	1.0			3	3	
049	285a049	X	ccv			12-OCT-2004 09:59	1.0					3	
050	285a050	CCV	mo			12-OCT-2004 10:28	1.0	1.0			3	2	
051	285a051	CCV	jet			12-OCT-2004 10:58	1.0	1.0			3	4	
052	285a052	SAMPLE	175139-001 S	95308	Soil	12-OCT-2004 12:19	10.0	0.09936			3		
053	285a053	SAMPLE	175092-009 S	95308	Soil	12-OCT-2004 12:48	1.0	0.1003			3		
054	285a054	SAMPLE	175092-011 S	95308	Soil	12-OCT-2004 13:18	1.0	0.09984			3		

Stds used: 1=04WS1621 2=04WS1793 3=04WS1579 4=04WS1699 5=04WS1563

REPORTING SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
175141-001	GC11A	10/12/04 06:04	1.0	+	+	+	
175141-009	GC11A	10/12/04 06:34	1.0	+	+	+	
QC267440	GC11A	10/11/04 22:15	1.0	+	+	+	
QC267441	GC11A	10/11/04 22:45	1.0	+		+	
QC267442	GC11A	10/12/04 08:31	1.0	+		+	
QC267443	GC11A	10/12/04 09:00	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **11-OCT-2004 18:20**

Batch Number : 95308
Date Extracted: 08-OCT-2004
Extracted by : Jessie O'Brien Mee
Prep Method : SHAKER TABLE

Analysis : N/A
Bgroup : TEH
Units : g
Clean-up :

Spike #1 ID : 04WS1916A
Spike #2 ID : 04WS1727A
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175015-004			Tetra Tech EMI	Soil	50.43	g	5	0.099147	1		1	0		TEHM	3630C	
175015-006			Tetra Tech EMI	Soil	50.16	g	5	0.099681	1		1	0		TEHM	3630C	
175015-009			Tetra Tech EMI	Soil	50.18	g	5	0.099641	1		1	0		TEHM	3630C	
175092-009			Burns & McDonnell	Soil	49.78	g	5	0.100442	1		1	0		TEH	3630C	
175092-010			Burns & McDonnell	Soil	50.08	g	5	0.099840	1		1	0		TEH	3630C	
175092-011			Burns & McDonnell	Soil	50.22	g	5	0.099562	1		1	0		TEH	3630C	
175138-001			Burns & McDonnell	Soil	50.29	g	5	0.099423	1		1	0		TEH	3630C	sg
175138-002			Burns & McDonnell	Soil	49.92	g	5	0.100160	1		1	0		TEH	3630C	sg
175138-003			Burns & McDonnell	Soil	50.08	g	5	0.099840	1		1	0		TEH	3630C	sg
175138-004			Burns & McDonnell	Soil	49.93	g	5	0.100140	1		1	0		TEH	3630C	sg
175138-005			Burns & McDonnell	Soil	49.83	g	5	0.100341	1		1	0		TEH	3630C	sg
175139-001			Burns & McDonnell	Soil	50.32	g	5	0.099364	1		1	0		TEH	3630C	sg++
175141-001			Treadwell & Rollo	Soil	50.15	g	5	0.099701	1		1	0		TEHM	3630C	sg
175141-009			Treadwell & Rollo	Soil	49.97	g	5	0.100060	1		1	0		TEHM	3630C	sg mss
175148-001			URS Corporation	Soil	50.37	g	5	0.099265	1		1	0		TEHM	3630C	sg
175148-002			URS Corporation	Soil	49.94	g	5	0.100120	1		1	0		TEHM	3630C	sg
175149-001			URS Corporation	Soil	50.09	g	5	0.099820	1		1	0		TEHM	3630C	sg
175150-001			URS Corporation	Soil	50.09	g	5	0.099820	1		1	0		TEHM	3630C	sg
QC267440	MB			Soil	50.02	g	5	0.099960	1		1	0		TEH	3630C	sg
QC267441	LCS			Soil	50.08	g	5	0.099840	1		1	1		TEH	3630C	sg
QC267442	MS	of 175141-009		Soil	50.31	g	5	0.099384	1		1	1		TEH	3630C	sg
QC267443	MSD	of 175141-009		Soil	49.95	g	5	0.100100	1		1	1		TEH	3630C	sg

Prep Chemist: JRD for JOM 10/11/04 Reviewed By: RB Date: 10/11/04

Relinquished By: RB 10/11/04 Received By: [illegible] Date: 10.12.04.

Curtis & Tompkins, Ltd. **TEH SOIL PREP LOG** BK 1990

LIMS Batch No: 95308
LIMS Analysis TEH
Extracted by: JDM
Date Extracted: 10/8/04

Extraction Method:
☒ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other _____

Cleanup Method (if necessary):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
175092-~~008~~ -009A	49.87 A JDM 10/8/04	5.0	X	
~~-004~~ -010	49.78			
~~-010~~ -011	50.08			
175138-001	50.29		X	
-002	49.92			
-003	50.08			
-004	49.93			
-005	49.83			
175139-001	50.32		X	
175141-001A	50.15 A JDM		X	ppt. formed
-009	49.97 A 10/8/04			MSS; ppt formed
175148-001	50.37		X	
-002	49.94			
175149-001	50.09			
175150-001	50.09			
MB QC267440	50.02			
LCS 41	50.08			
MS 42	50.31			175141-009A
MSD 43	49.95			
175015-004 A	50.43		X	
-006	50.16			
-009	50.18			
		CW 10/11/04		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	F030132	JDM 10/8/04
Samples were dried with CH2Cl2-rinsed granular Na2SO4	EM44135434	
1.0 mL of TEH_SURR surrogate solution was added to all samples	OHWS1916A	
1.0 mL of TEH_SP matrix spiking solution was added to all spikes	OHWS1727A	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM44233	
Acetone	EM44179	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	1515	
taken off shaker table at:	1715	JDM 10/8/04
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM432 19415	CW 10/11/04
Concentrated to volumes as noted above	✓	

Jessie Thee 10/8/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

B Holliday 10/11/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: CW
Cleanup Date: 10/11/04

Benchbook # **BK 1985**
Page 72

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
175092-009	95308	1.0	1.0	
-010				
-011				
175138-001				
-002				
-003				
-004				
-005				
175139-001				
175141-001				
-009				MSD
175148-001				
-002				
175149-001				
175150-001				
175015-004				
-006				
-009				
MB				
LCS				
MS				
MSD				
			10/11/04	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled ____ g columns	NA	CW 10/11/04
☑ Extracts were cleaned up using 1.0 g cartridges	SP3262	
Extracts were eluted with 2.0 mL CH_2Cl_2	EM44233	
Concentrated to volumes as noted above		

Cord Wooserie 10/11/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

10/11/04
Reviewed by / Date

2

PROJECT SOIL ALIQUOT

Notebook No. 215

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175141-001A	15.17	8081	
-002	15.21		
-003	14.98		
-004	15.13		
-005	15.09		
-006	14.79		
-007	15.15		
-008	15.16		
-009	14.88		
175144-001A	50.05	TEHM	
-002A	50.29		
175143-001A	50.16	TEHM	
175141-001A	14.86	PCB	
-009A	15.09		
175141-001A	MC 10/7 ~~29.88~~ 30.48	8210	
-009A	29.88		
175141-001A	50.15	TEHM	
-009A	49.97		
175092-001A	50.31	TEH	
-002	50.09		
-003	49.84		
-004	49.78		
-005	50.04		
-006	49.95		
-007	49.96		
-008	49.87		
-009	49.78		
-010	50.08		
-011	50.22		

Continued on Page

Read and Understood By

Michelle Cuntz 10/7/04

Signed Date

Signed Date

PROJECT Soil Aliquot

Notebook No. 2015

Continued From Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175075-001A	30.20	8(a)	gpc, aba 174989-001A
-002A	29.98	↓	-002A
-003A	30.03	↓	-003A
LCS	30.01	↓	↓
MB	30.11	↓	
175148-001	15.04	PCB	4, COMP A-D
↓ -002	15.03	↓	↓
175148-001	50.37	TEHM	
↓ -002	49.94	↓	
175148-001	15.25	8081	
↓ -002	15.07	↓	
175148-001	29.84	8270	
↓ -002	30.42	↓	
175139-001	50.32	TEH	4, COMP A-D
175138-001	50.29	TEH	
-002	49.92	↓	
-003	50.08	↓	
-004	49.83	↓	
↓ -005	49.83	↓	
175149-001	50.09	TEHM	4, COMP A-D
175150-001	50.09	↓	↓
175149-001	15.06	8081	
175150-001	14.90	↓	
175149-001	14.90	PCB	
175150-001	15.00	↓	
175149-001	29.74	8100	
175150-001	30.40	↓	

Continued on Page

Read and Understood By

Michelle Cuz — Signed

10/8/04 — Date

Signed

Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175135-049A	15.15	8081	
↓ -052	15.24	↓	
175135-049	14.83	PCB	
↓ -052	14.88	↓	
175135-003	30.23	8270-SIM	COMP 1A + 2A
-006A	30.32		
-007A	30.18		
-009A	30.06		
-014	29.91		COMP 11A + 13A
-015A	29.86		MSS
-017A	30.33		
-112A	30.05		
-115A	30.15		
-118A	30.40		
-121A	30.14		
-122A	30.30		
-130	30.26		COMP 128A + 129A
-142	29.93		COMP 136A, 139A, 140A
-143A	30.27		
-144A	30.08		
-010	30.27		COMP 106A + 109A
MSD	30.15		175135-015A
MS	29.93		↓
CCS	30.08		F030122
MB	29.86		↓
MB	50.02	TEHM	
MS	50.31	TEHM	175141-009A
MSD	49.95	↓	↓
LCS	50.08	TEHM	
175015-001A		TEHM	re-extract
-004A	50.43		
-006A	50.16		
-009A	50.18		

Continued on Page

Read and Understood By

Michelle Curtis 10/8/04
Signed Date

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil SHAKER TABLE

Analyte	Units	GC11A	GC13B	GC15B	GC17A
Diesel C10-C20	mg/Kg		10/20/04 0.30	10/20/04 0.29	10/20/04 0.20
Diesel C10-C22	mg/Kg	10/26/04 0.57	10/20/04 0.30	10/20/04 0.30	10/20/04 0.19
Diesel C10-C24	mg/Kg	10/26/04 0.55	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C10-C28	mg/Kg	10/26/04 0.68	10/20/04 0.32	10/20/04 0.30	10/20/04 0.40
Diesel C12-C28	mg/Kg		10/20/04 0.32		
Diesel C12-C36	mg/Kg	10/26/04 0.60	10/20/04 0.32		
Diesel C12-C32	mg/Kg			10/20/04 0.31	10/20/04 0.50
Diesel C12-C24	mg/Kg	10/26/04 0.42	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C12-C22	mg/Kg	10/26/04 0.44	10/20/04 0.31	10/20/04 0.30	10/20/04 0.20
Motor Oil C20-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.68	03/30/04 0.32
Motor Oil C22-C36	mg/Kg	04/06/04 2.4	04/10/04 0.54	04/10/04 0.71	03/30/04 0.32
Motor Oil C24-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.80	03/30/04 0.30
Motor Oil C22-C32	mg/Kg	04/06/04 2.6	04/10/04 0.64	04/10/04 0.54	03/30/04 0.31
Hexacosane	mg/Kg	09/20/03 0.17	08/15/03 0.11	08/16/03 0.069	09/05/03 0.17

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC11A	Samplenum:	175141-001 S	Cident	: BB4EX100[0.5]
Seqnum	: 114410940041	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 285a041	Batchnum	: 95308	Injected	: 12-OCT-2004 06:04
IDF	: 1.0			Units	: mg/Kg

Prep: 50.15 g --> 5.0 ml = 0.0997 ml/g PDF

Analyte	Calibration	Result	RL	B=285a025	Flags
Diesel C12-C24.....	114306371001	2.1	1.0		
Motor Oil C24-C36.....	114295755001	7.0	5.0		

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	114345124001	4.985	4.634	93	65-135	

Analyst: MJB Date: 10/12/04 Reviewer: MW Date: 10/14/04
Page 1 of 1

Software Version: 4.1<2F12>
Date: 10/12/04 08:39 AM
Sample Name : 175141-001sg,95308
Data File : G:\GC11\CHA\285A041.RAW Date: 10/12/04 06:04 AM
Sequence File: G:\GC11\285.SEQ Cycle: 41 Channel : A
Instrument : GC11 Rack/Vial: 0/41 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	15249	0.46	0.4560	1.00	1.00	0.4560
JP5:10-16	15249	0.73	0.7309	1.00	1.00	0.7309
JETA:10-16	15249	0.79	0.7865	1.00	1.00	0.7865
JP8:10-16	15249	0.80	0.8027	1.00	1.00	0.8027
DSL:10-22	118147	4.52	4.5171	1.00	1.00	4.5171
GAIAFP:10-24	470128	11.11	11.1060	1.00	1.00	11.1060
DSL:10-24	470128	17.86	17.8629	1.00	1.00	17.8629
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	109931	4.99	4.9876	1.00	1.00	4.9876
DSL:10-28	2197254	83.32	83.3249	1.00	1.00	83.3249
DSL:12-24	461911	20.80	20.8034	1.00	1.00	20.8034
RRFPLH:16-24	454879	65.83	65.8322	1.00	1.00	65.8322
CRUDE:10-40	3390048	3.39	3.3900	1.00	1.00	3.3900
TRIMSOL:12-36	3091332	125.64	125.6359	1.00	1.00	125.6359
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	3381832	437.70	437.7041	1.00	1.00	437.7041
TRANSOIL:12-40	3381832	117.52	117.5194	1.00	1.00	117.5194
HYFL:12-40	3381832	144.79	144.7886	1.00	1.00	144.7886
MO:22-32	2648789	133.89	133.8919	1.00	1.00	133.8919
MO:20-36	3019178	123.06	123.0605	1.00	1.00	123.0605
MO:22-36	2981402	136.10	136.1005	1.00	1.00	136.1005
HYFL:24-36	2629421	183.99	183.9879	1.00	1.00	183.9879
TPHHF:24-36	2629421	2.63e-07	2.6294e-07	1.00	1.00	2.6294e-07
MO:24-36	2629421	149.89	149.8919	1.00	1.00	149.8919
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A041P.TX0

Software Version: 4.1<2F12>
Date: 10/12/04 06:25 AM
Sample Name : 175141-001sg,95308
Data File : G:\GC11\CHA\285A041.RAW Date: 10/12/04 06:04 AM
Sequence File: G:\GC11\285.SEQ Cycle: 41 Channel : A
Instrument : GC11 Rack/Vial: 0/41 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1400752	46.48	46.4781			9.744	92.9562

CURTIS & TOMPKINS,LTD. BERKELEY

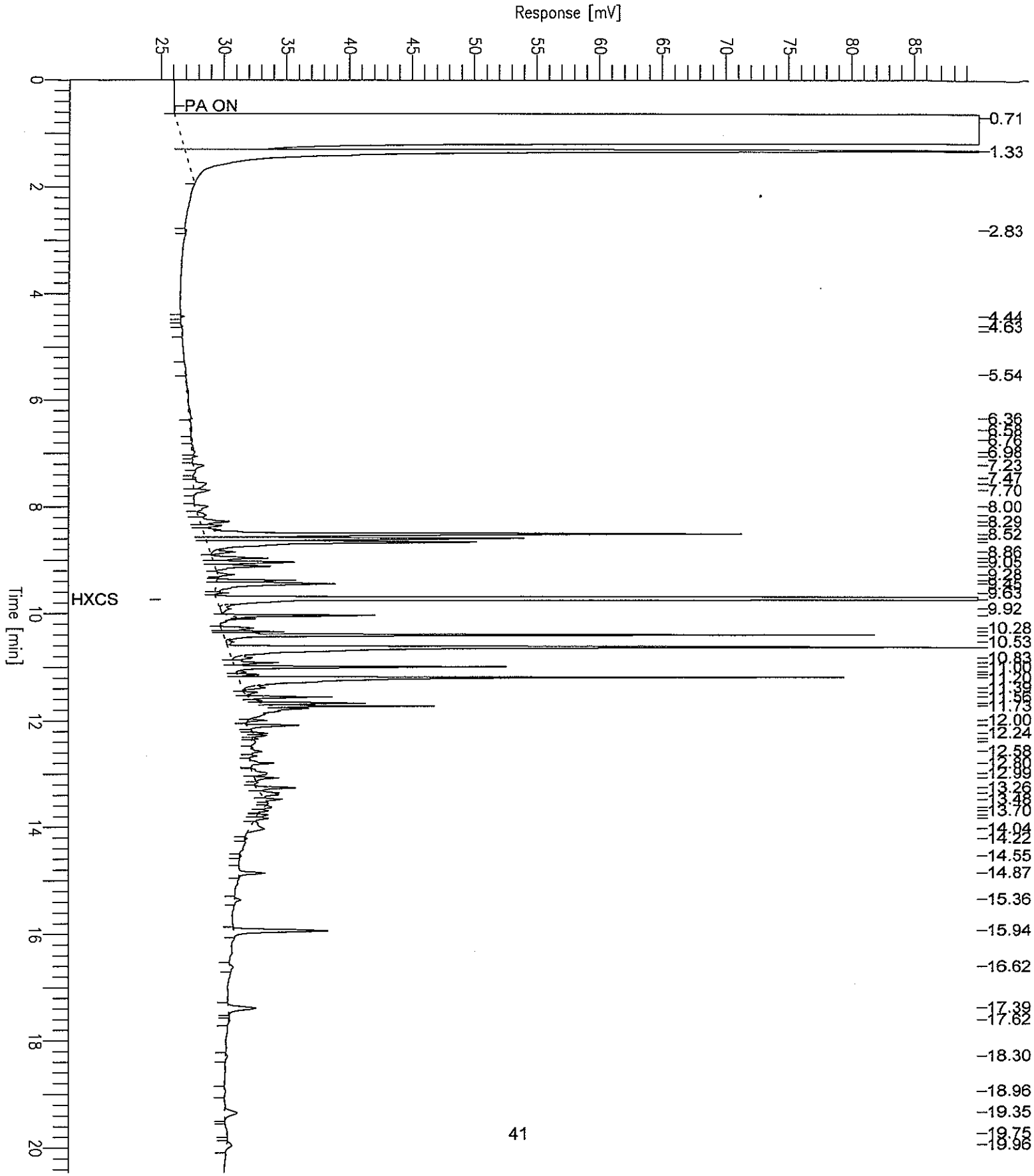
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A041.TX0

Chromatogram

Sample Name : 175141-001sg,95308
FileName : G:\GC11\CHA\285A041.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 06:25 AM
Time of Injection: 10/12/04 06:04 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC11A	Samplenum:	175141-009 S	Cident	: DUP100704A
Seqnum	: 114410940042	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 285a042	Batchnum	: 95308	Injected	: 12-OCT-2004 06:34
IDF	: 1.0			Units	: mg/Kg

Prep: 49.97 g --> 5.0 ml = 0.1001 ml/g PDF

Analyte	Calibration	Result	RL	B=285a025	Flags
Diesel C12-C24	114306371001	ND	1.0		
Motor Oil C24-C36	114295755001	ND	5.0		

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	114345124001	5.003	5.978	119	65-135	

Analyst: MJB Date: 10/12/04 Reviewer: [illegible] Date: 10/14/04

Page 1 of 1

Software Version: 4.1<2F12>
Date: 10/12/04 08:40 AM
Sample Name : 175141-009sg,95308
Data File : G:\GC11\CHA\285A042.RAW Date: 10/12/04 06:34 AM
Sequence File: G:\GC11\285.SEQ Cycle: 42 Channel : A
Instrument : GC11 Rack/Vial: 0/42 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	6098	0.18	0.1824	1.00	1.00	0.1824
JP5:10-16	6098	0.29	0.2923	1.00	1.00	0.2923
JETA:10-16	6098	0.31	0.3145	1.00	1.00	0.3145
JP8:10-16	6098	0.32	0.3210	1.00	1.00	0.3210
DSL:10-22	36146	1.38	1.3820	1.00	1.00	1.3820
GAIAFP:10-24	123038	2.91	2.9066	1.00	1.00	2.9066
DSL:10-24	123038	4.67	4.6749	1.00	1.00	4.6749
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	36146	1.64	1.6400	1.00	1.00	1.6400
DSL:10-28	2094305	79.42	79.4208	1.00	1.00	79.4208
DSL:12-24	123038	5.54	5.5413	1.00	1.00	5.5413
RRFPLH:16-24	116939	16.92	16.9240	1.00	1.00	16.9240
CRUDE:10-40	2691758	2.69	2.6918	1.00	1.00	2.6918
TRIMSOL:12-36	2523355	102.55	102.5526	1.00	1.00	102.5526
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	2691758	348.39	348.3891	1.00	1.00	348.3891
TRANSOIL:12-40	2691758	93.54	93.5392	1.00	1.00	93.5392
HYFL:12-40	2691758	115.24	115.2440	1.00	1.00	115.2440
MO:22-32	2305869	116.56	116.5579	1.00	1.00	116.5579
MO:20-36	2503533	102.04	102.0431	1.00	1.00	102.0431
MO:22-36	2487209	113.54	113.5406	1.00	1.00	113.5406
HYFL:24-36	2400318	167.96	167.9569	1.00	1.00	167.9569
TPHHF:24-36	2400318	2.40e-07	2.4003e-07	1.00	1.00	2.4003e-07
MO:24-36	2400318	136.83	136.8317	1.00	1.00	136.8317
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

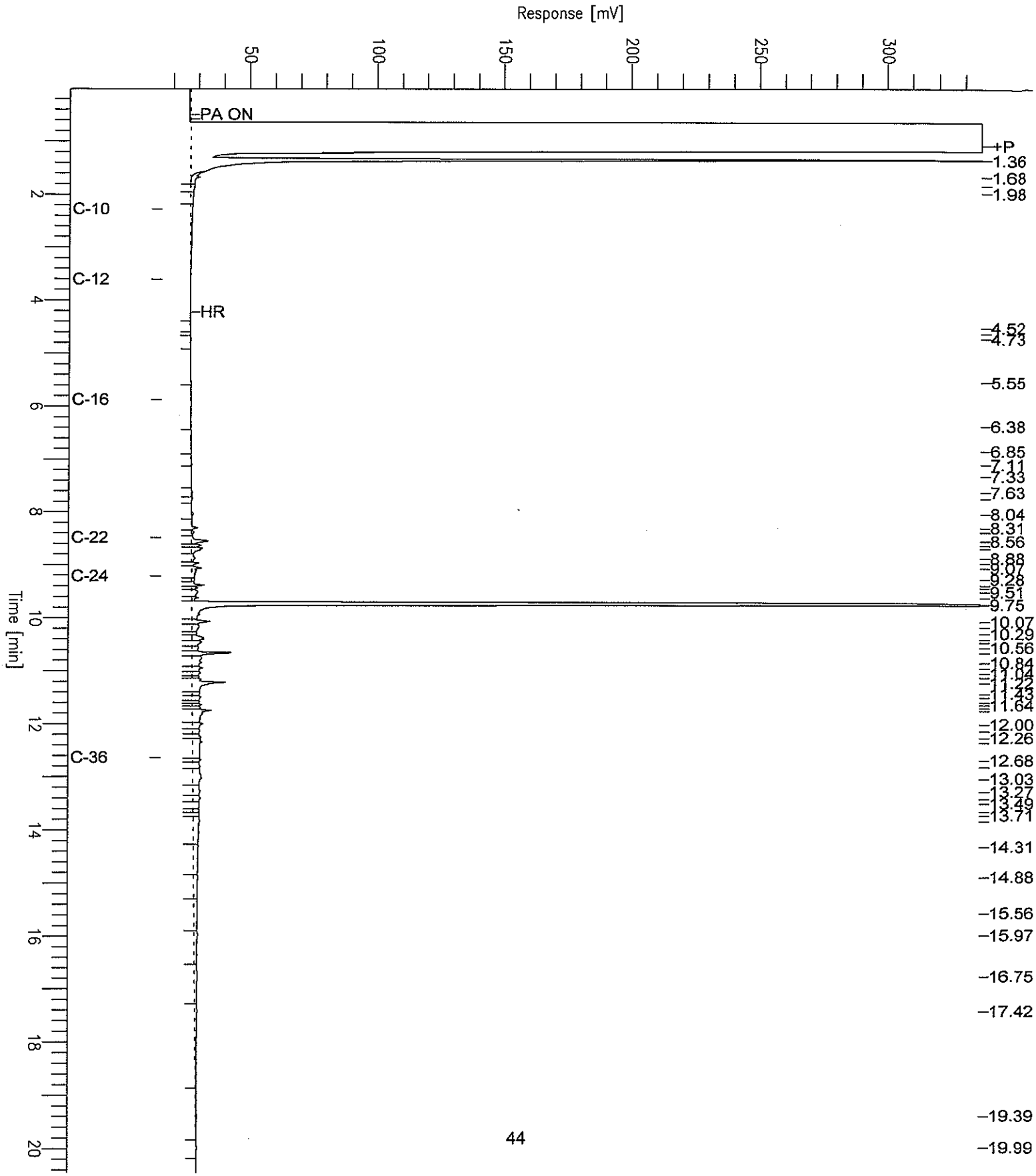
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A042P.TX0

Chromatogram

Sample Name : 175141-009sg,95308
FileName : G:\GC11\CHA\285A042.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 08:40 AM
Time of Injection: 10/12/04 06:34 AM
Low Point : 15.23 mV High Point : 336.36 mV
Plot Scale: 321.1 mV



Software Version: 4.1<2F12>
Date: 10/12/04 06:54 AM
Sample Name : 175141-009sg,95308
Data File : G:\GC11\CHA\285A042.RAW Date: 10/12/04 06:34 AM
Sequence File: G:\GC11\285.SEQ Cycle: 42 Channel : A
Instrument : GC11 Rack/Vial: 0/42 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1800691	59.75	59.7484			9.749	119.4968

CURTIS & TOMPKINS,LTD. BERKELEY

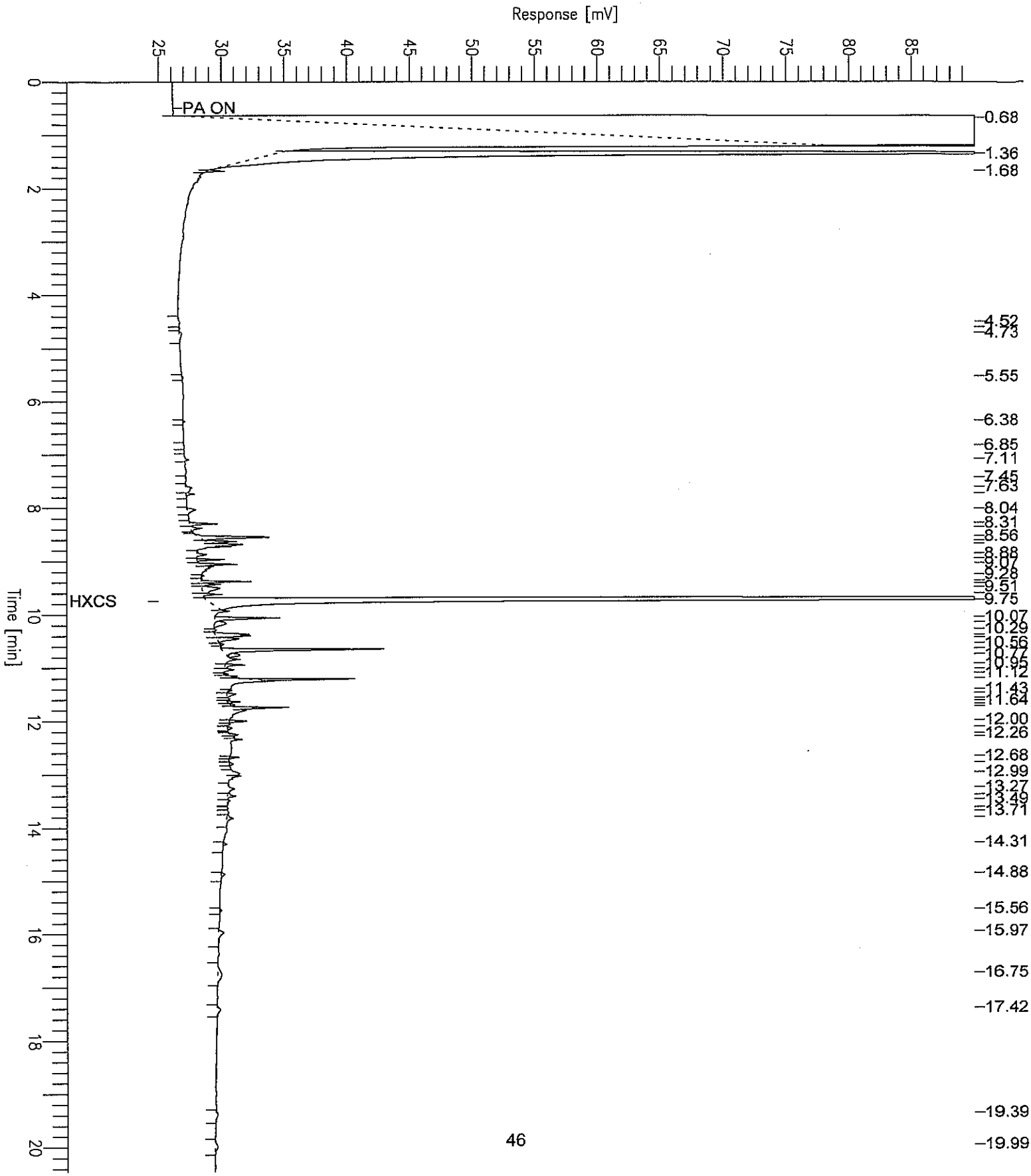
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A042.TXO

Chromatogram

Sample Name : 175141-009sg,95308
FileName : G:\GC11\CHA\285A042.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 06:54 AM
Time of Injection: 10/12/04 06:34 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Curtis & Tompkins, Ltd.

QC RAW DATA

BLANK USER REPORT FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC11A	Samplenum:	QC267440 S	Cident	:
Seqnum	: 114410940025	Matrix	: Soil	Acctnum	: TREADWELL
Filename	: 285a025	Batchnum	: 95308	Injected	: 11-OCT-2004 22:15
IDF	: 1.0			Units	: mg/Kg

Prep: 50.02 g --> 5.0 ml = 0.09996 ml/g PDF

Analyte	Calibration	Result	RL	Flags
Diesel C12-C24	114306371001	ND	1.0	u
Motor Oil C24-C36	114295755001	ND	5.0	u

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	114345124001	4.998	4.284	86	65-135	u

u=use

Software Version: 4.1<2F12>
Date: 10/12/04 08:30 AM
Sample Name : mb,qc267440sg,95308
Data File : G:\GC11\CHA\285A025.RAW Date: 10/11/04 10:15 PM
Sequence File: G:\GC11\285.SEQ Cycle: 25 Channel : A
Instrument : GC11 Rack/Vial: 0/25 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	7245	0.22	0.2167	1.00	1.00	0.2167
JP5:10-16	7245	0.35	0.3472	1.00	1.00	0.3472
JETA:10-16	7245	0.37	0.3737	1.00	1.00	0.3737
JP8:10-16	7245	0.38	0.3814	1.00	1.00	0.3814
DSL:10-22	13695	0.52	0.5236	1.00	1.00	0.5236
GAIAFP:10-24	17633	0.42	0.4166	1.00	1.00	0.4166
DSL:10-24	17633	0.67	0.6700	1.00	1.00	0.6700
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	6450	0.29	0.2926	1.00	1.00	0.2926
DSL:10-28	1319402	50.03	50.0347	1.00	1.00	50.0347
DSL:12-24	10388	0.47	0.4679	1.00	1.00	0.4679
RRFPLH:16-24	10388	1.50	1.5035	1.00	1.00	1.5035
CRUDE:10-40	1389631	1.39	1.3896	1.00	1.00	1.3896
TRIMSOL:12-36	1326828	53.92	53.9241	1.00	1.00	53.9241
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	1382386	178.92	178.9197	1.00	1.00	178.9197
TRANSOIL:12-40	1382386	48.04	48.0382	1.00	1.00	48.0382
HYFL:12-40	1382386	59.19	59.1850	1.00	1.00	59.1850
MO:22-32	1310815	66.26	66.2595	1.00	1.00	66.2595
MO:20-36	1324334	53.98	53.9793	1.00	1.00	53.9793
MO:22-36	1320378	60.27	60.2750	1.00	1.00	60.2750
HYFL:24-36	1316439	92.11	92.1149	1.00	1.00	92.1149
TPHHF:24-36	1316439	1.32e-07	1.3164e-07	1.00	1.00	1.3164e-07
MO:24-36	1316439	75.04	75.0445	1.00	1.00	75.0445
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

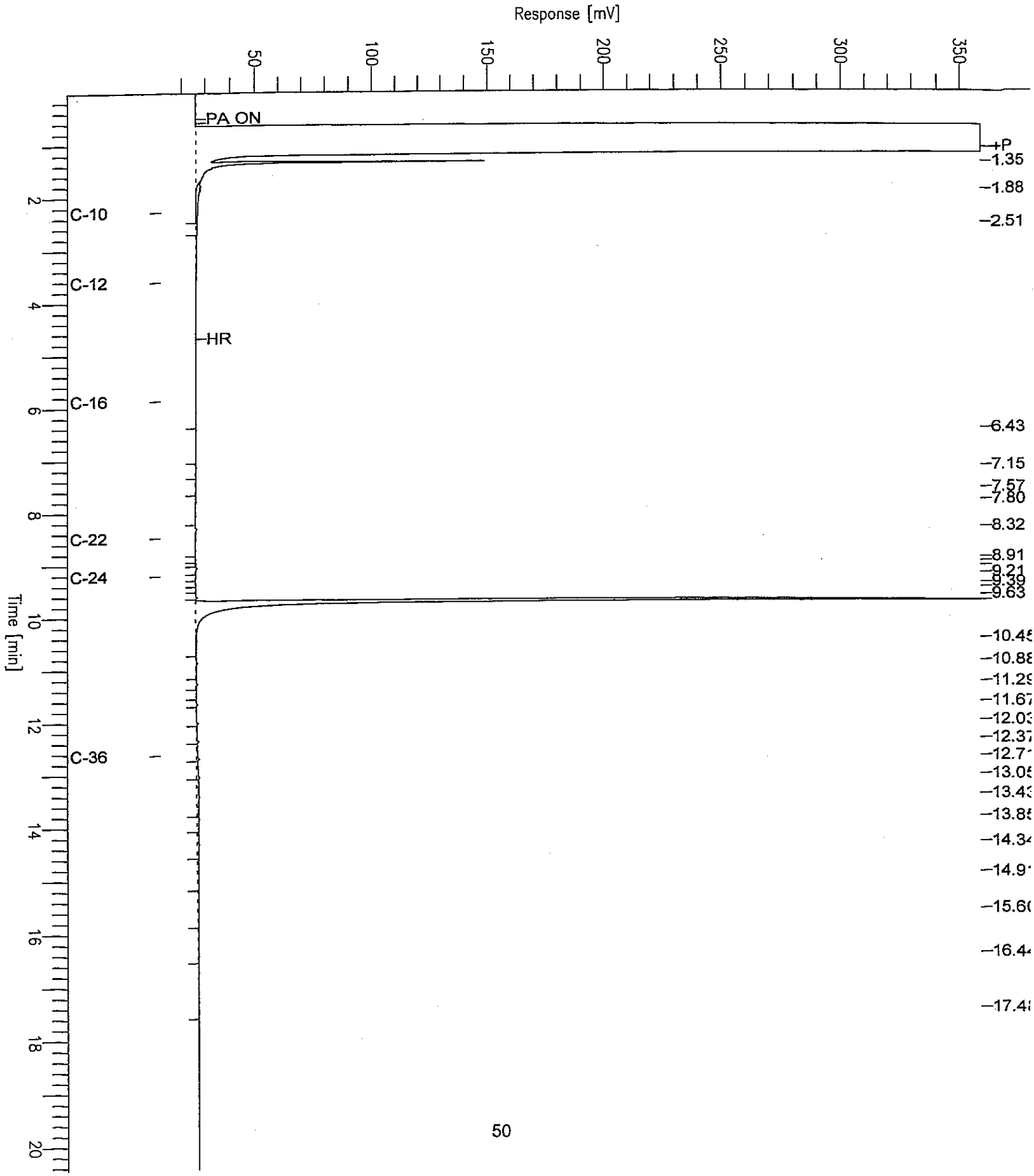
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A025P.TX0

Chromatogram

Sample Name : mb,qc267440sg,95308
FileName : G:\GC11\CHA\285A025.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 08:30 AM
Time of Injection: 10/11/04 10:15 PM
Low Point : 11.11 mV High Point : 358.86 mV
Plot Scale: 347.8 mV



Software Version: 4.1<2F12>
Date: 10/11/04 10:36 PM
Sample Name : mb,qc267440sg,95308
Data File : G:\GC11\CHA\285A025.RAW Date: 10/11/04 10:15 PM
Sequence File: G:\GC11\285.SEQ Cycle: 25 Channel : A
Instrument : GC11 Rack/Vial: 0/25 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1291757	42.86	42.8616			9.737	85.7231

CURTIS & TOMPKINS,LTD. BERKELEY

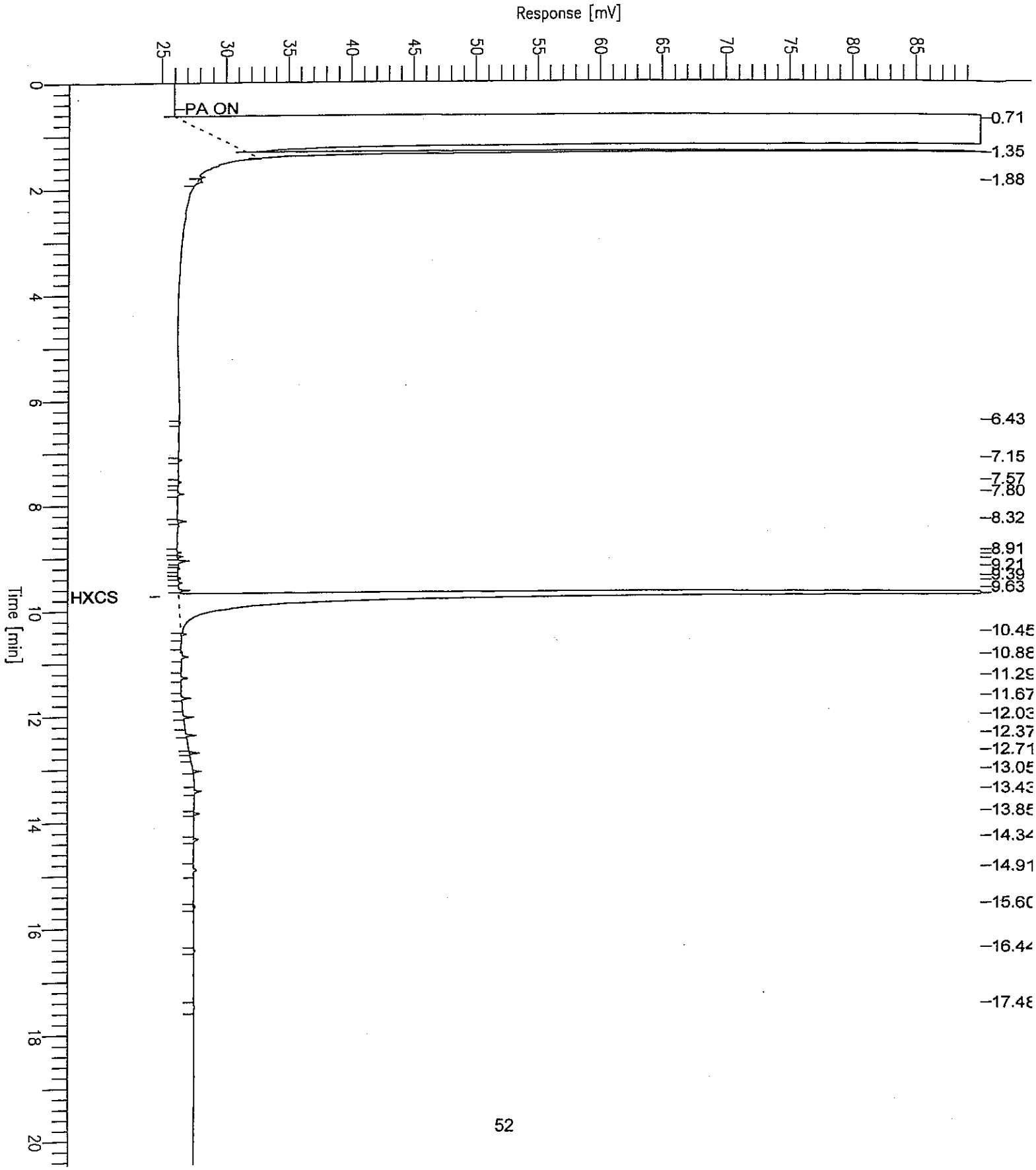
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A025.TX0

Chromatogram

Sample Name : mb,qc267440sg,95308
FileName : G:\GC11\CHA\285A025.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 95308 Page 1 of 1
Date : 10/11/04 10:36 PM
Time of Injection: 10/11/04 10:15 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



SPIKE USER REPORT FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories
EPA 8015B

Instid : GC11A
Seqnum : 114410940026
Filename : 285a026
IDF : 1.0
Run type : LCS
Samplenum: QC267441 S
Matrix : Soil
Batchnum : 95308
Inj : 11-OCT-2004 22:45

LCS: 50.08 g --> 5.0 ml = 0.09984 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Diesel C12-C24	49.92	45.51	91	65-135	mg/Kg	u
Hexacosane	4.992	4.576	92	65-135	mg/Kg	u

u=use

Software Version: 4.1<2F12>
Date: 10/12/04 08:30 AM
Sample Name : lcs,qc267441sg,95308
Data File : G:\GC11\CHA\285A026.RAW Date: 10/11/04 10:45 PM
Sequence File: G:\GC11\285.SEQ Cycle: 26 Channel : A
Instrument : GC11 Rack/Vial: 0/26 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	8399818	251.19	251.1851	1.00	1.00	251.1851
JP5:10-16	8399818	402.60	402.5998	1.00	1.00	402.5998
JETA:10-16	8399818	433.23	433.2259	1.00	1.00	433.2259
JP8:10-16	8399818	442.15	442.1540	1.00	1.00	442.1540
DSL:10-22	12130146	463.77	463.7660	1.00	1.00	463.7660
GAIAFP:10-24	12229112	288.89	288.8924	1.00	1.00	288.8924
DSL:10-24	12229112	464.66	464.6564	1.00	1.00	464.6564
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10022157	454.71	454.7104	1.00	1.00	454.7104
DSL:10-28	13639598	517.24	517.2444	1.00	1.00	517.2444
DSL:12-24	10121122	455.83	455.8323	1.00	1.00	455.8323
RRFPLH:16-24	3829294	554.19	554.1927	1.00	1.00	554.1927
CRUDE:10-40	13654672	13.65	13.6547	1.00	1.00	13.6547
TRIMSOL:12-36	11544739	469.19	469.1938	1.00	1.00	469.1938
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	11546683	1494.47	1494.4655	1.00	1.00	1494.4655
TRANSOIL:12-40	11546683	401.25	401.2498	1.00	1.00	401.2498
HYFL:12-40	11546683	494.36	494.3558	1.00	1.00	494.3558
MO:22-32	1519939	76.83	76.8304	1.00	1.00	76.8304
MO:20-36	1873376	76.36	76.3581	1.00	1.00	76.3581
MO:22-36	1522582	69.51	69.5056	1.00	1.00	69.5056
HYFL:24-36	1423617	99.61	99.6144	1.00	1.00	99.6144
TPHHF:24-36	1423617	1.42e-07	1.4236e-07	1.00	1.00	1.4236e-07
MO:24-36	1423617	81.15	81.1543	1.00	1.00	81.1543
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

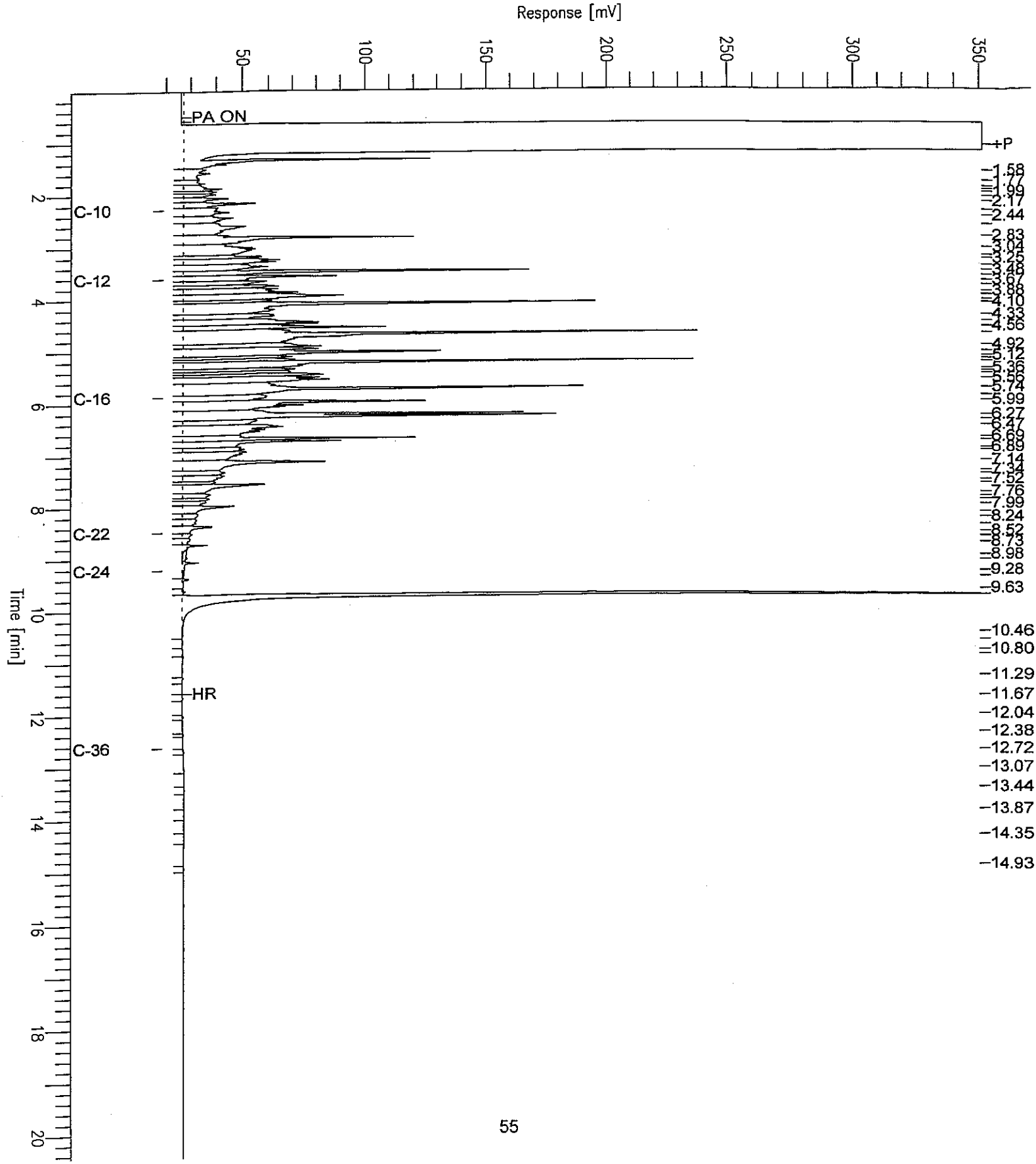
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A026P.TX0

Chromatogram

Sample Name : lcs,qc267441sg,95308
FileName : G:\GC11\CHA\285A026.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 08:30 AM
Time of Injection: 10/11/04 10:45 PM
Low Point : 18.80 mV High Point : 351.37 mV
Plot Scale: 332.6 mV



Software Version: 4.1<2F12>
Date: 10/11/04 11:05 PM
Sample Name : lcs,qc267441sg,95308
Data File : G:\GC11\CHA\285A026.RAW Date: 10/11/04 10:45 PM
Sequence File: G:\GC11\285.SEQ Cycle: 26 Channel : A
Instrument : GC11 Rack/Vial: 0/26 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1381308	45.83	45.8329			9.741	91.6659

CURTIS & TOMPKINS,LTD. BERKELEY

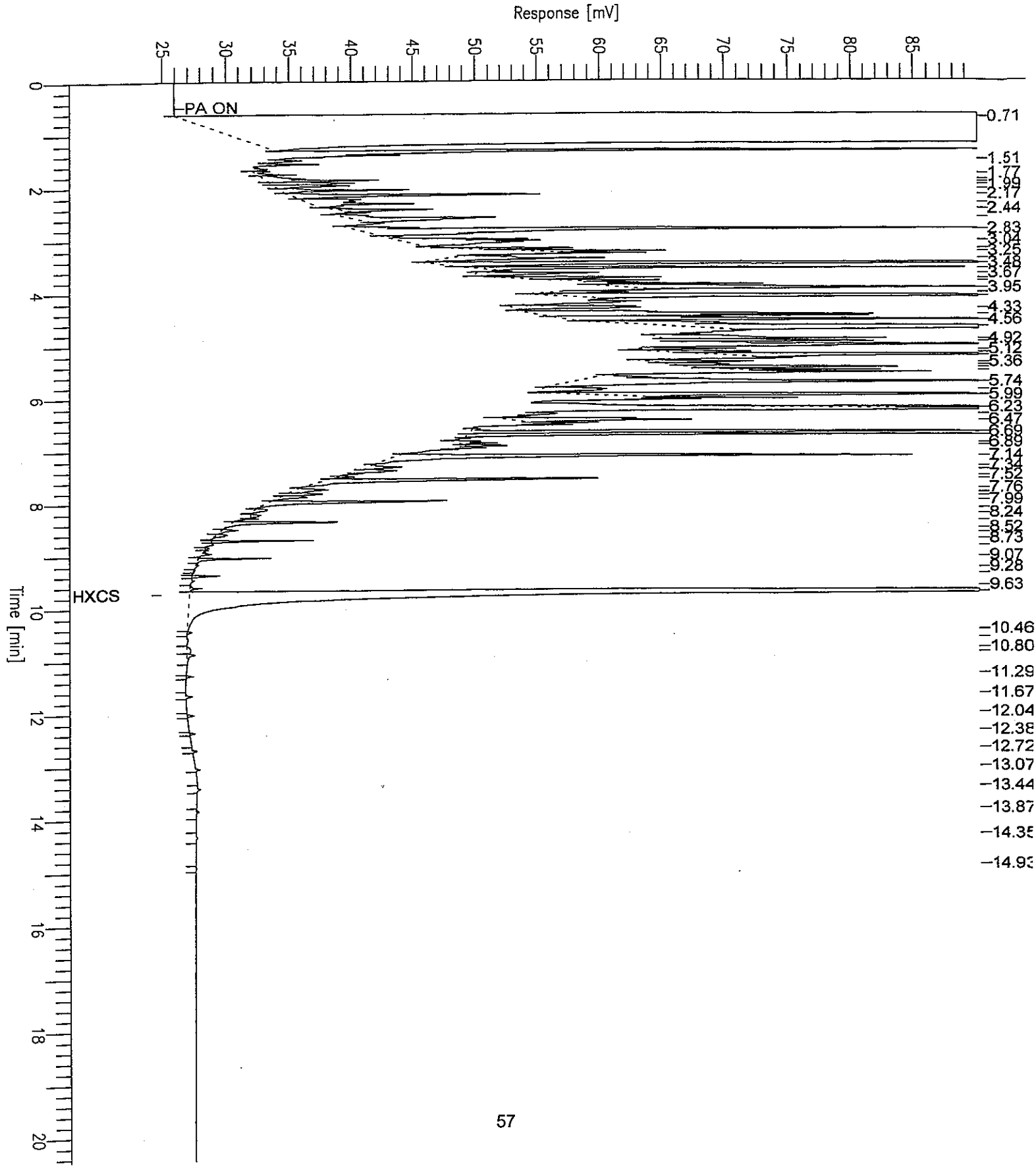
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A026.TX0

Chromatogram

Sample Name : lcs,qc267441sg,95308
FileName : G:\GC11\CHA\285A026.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 95308 Page 1 of 1
Date : 10/11/04 11:05 PM
Time of Injection: 10/11/04 10:45 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



SPIKE USER REPORT FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories
EPA 8015B

Instid : GC11A	Instid : GC11A	Instid : GC11A
Seqnum : 114410940042	Seqnum : 114410940046	Seqnum : 114410940047
Filename : 285a042	Filename : 285a046	Filename : 285a047
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 175141-009 S	Samplenum: QC267442 S	Samplenum: QC267443 S
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 95308	Batchnum : 95308	Batchnum : 95308
Inj : 12-OCT-2004 06:34	Inj : 12-OCT-2004 08:31	Inj : 12-OCT-2004 09:00

MSS: 49.97 g --> 5.0 ml = 0.1001 ml/g PDF
MS: 50.31 g --> 5.0 ml = 0.09938 ml/g PDF
MSD: 49.95 g --> 5.0 ml = 0.1001 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Diesel C12-C24	0.5545	50.05	42.30	84	50.47	100	65-135	mg/Kg	17	35	u
Hexacosane		5.005	4.538	91	5.435	109	65-135	mg/Kg	--		u

u=use

Software Version: 4.1<2F12>
Date: 10/12/04 08:59 AM
Sample Name : ms,qc267442sg,95308
Data File : G:\GC11\CHA\285A046.RAW Date: 10/12/04 08:31 AM
Sequence File: G:\GC11\285.SEQ Cycle: 46 Channel : A
Instrument : GC11 Rack/Vial: 0/46 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	7669063	229.33	229.3329	1.00	1.00	229.3329
JP5:10-16	7669063	367.58	367.5750	1.00	1.00	367.5750
JETA:10-16	7669063	395.54	395.5368	1.00	1.00	395.5368
JP8:10-16	7669063	403.69	403.6882	1.00	1.00	403.6882
DSL:10-22	11170621	427.08	427.0809	1.00	1.00	427.0809
GAIAFP:10-24	11277969	266.42	266.4232	1.00	1.00	266.4232
DSL:10-24	11277969	428.52	428.5169	1.00	1.00	428.5169
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	9344116	423.95	423.9474	1.00	1.00	423.9474
DSL:10-28	12887217	488.71	488.7125	1.00	1.00	488.7125
DSL:12-24	9451464	425.67	425.6724	1.00	1.00	425.6724
RRFPLH:16-24	3608905	522.30	522.2971	1.00	1.00	522.2971
CRUDE:10-40	13962360	13.96	13.9624	1.00	1.00	13.9624
TRIMSOL:12-36	11902456	483.73	483.7319	1.00	1.00	483.7319
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	12135856	1570.72	1570.7211	1.00	1.00	1570.7211
TRANSOIL:12-40	12135856	421.72	421.7237	1.00	1.00	421.7237
HYFL:12-40	12135856	519.58	519.5805	1.00	1.00	519.5805
MO:22-32	2244562	113.46	113.4589	1.00	1.00	113.4589
MO:20-36	2852564	116.27	116.2694	1.00	1.00	116.2694
MO:22-36	2558340	116.79	116.7877	1.00	1.00	116.7877
HYFL:24-36	2450992	171.50	171.5027	1.00	1.00	171.5027
TPHHF:24-36	2450992	2.45e-07	2.4510e-07	1.00	1.00	2.4510e-07
MO:24-36	2450992	139.72	139.7204	1.00	1.00	139.7204
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

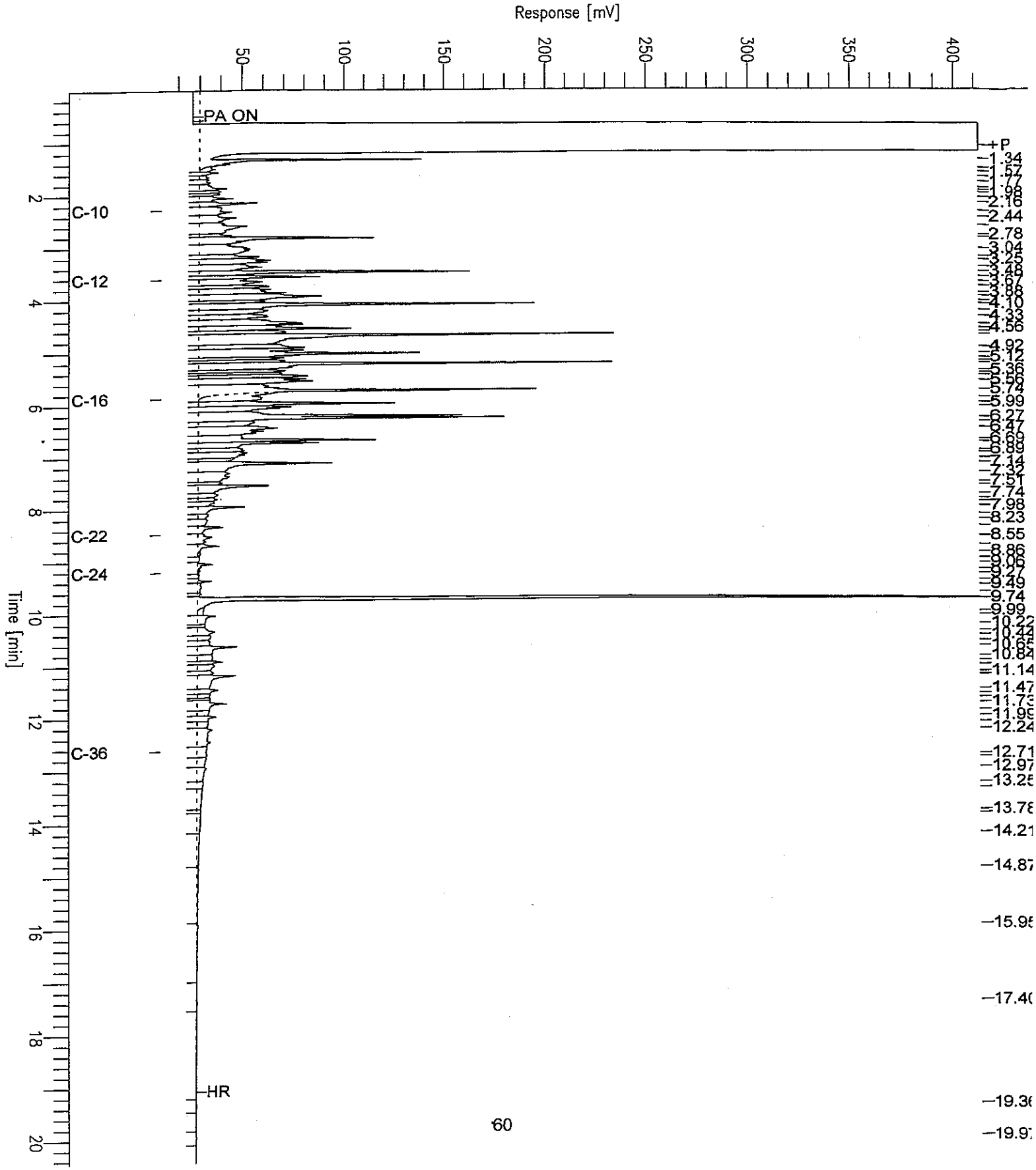
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A046P.TX0

Chromatogram

Sample Name : ms,qc267442sg,95308
FileName : G:\GC11\CHA\285A046.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 08:59 AM
Time of Injection: 10/12/04 08:31 AM
Low Point : 11.74 mV High Point : 412.17 mV
Plot Scale: 400.4 mV



Software Version: 4.1<2F12>
Date: 10/12/04 08:52 AM
Sample Name : ms,qc267442sg,95308
Data File : G:\GC11\CHA\285A046.RAW Date: 10/12/04 08:31 AM
Sequence File: G:\GC11\285.SEQ Cycle: 46 Channel : A
Instrument : GC11 Rack/Vial: 0/46 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1376252	45.67	45.6652			9.744	91.3304

CURTIS & TOMPKINS,LTD. BERKELEY

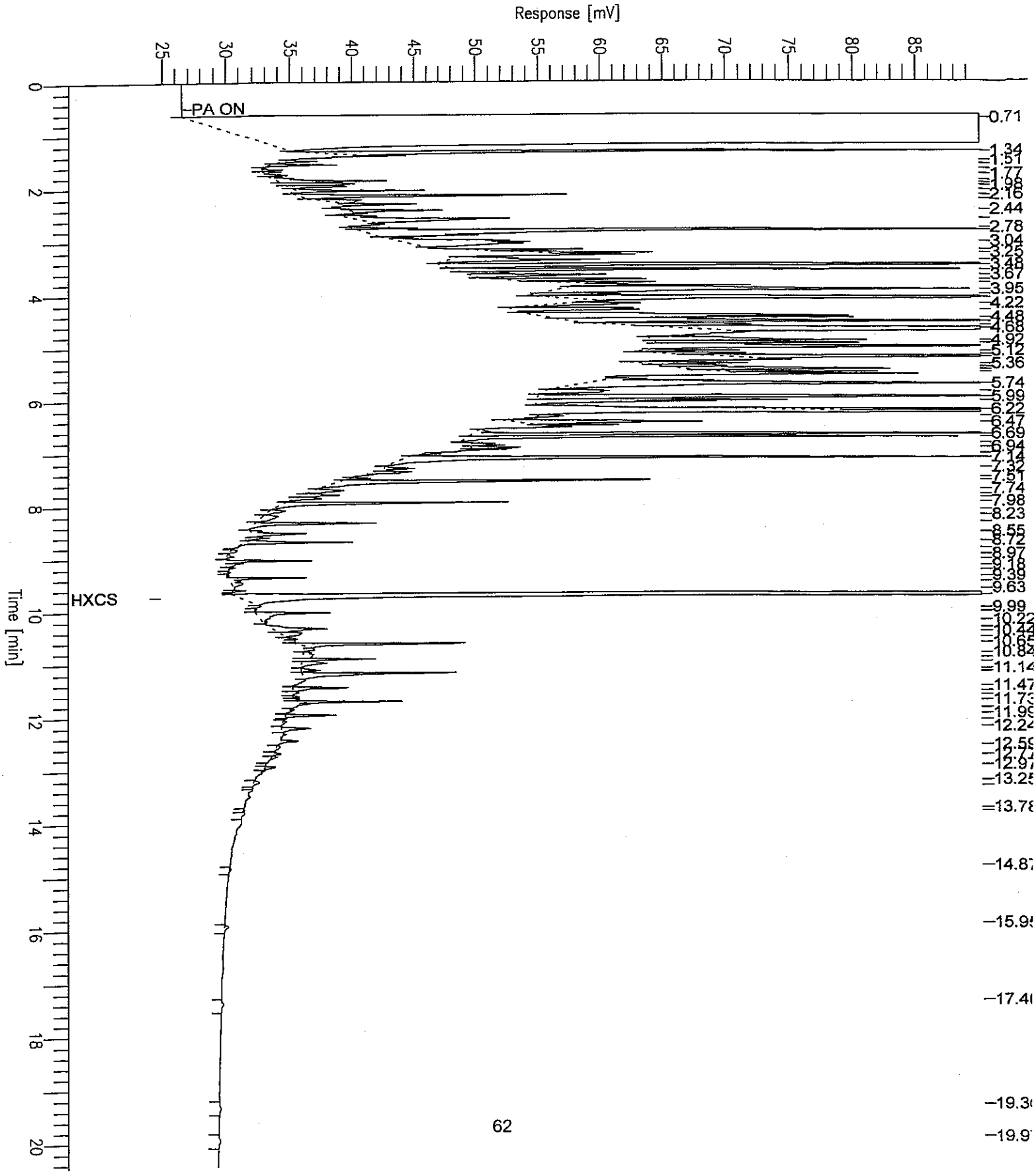
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A046.TX0

Chromatogram

Sample Name : ms,qc267442sg,95308
FileName : G:\GC11\CHA\285A046.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 08:52 AM
Time of Injection: 10/12/04 08:31 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 10/12/04 09:37 AM
Sample Name : msd,qc267443sg,95308
Data File : G:\GC11\CHA\285A047.RAW Date: 10/12/04 09:00 AM
Sequence File: G:\GC11\285.SEQ Cycle: 47 Channel : A
Instrument : GC11 Rack/Vial: 0/47 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	9303131	278.20	278.1975	1.00	1.00	278.1975
JP5:10-16	9303131	445.90	445.8952	1.00	1.00	445.8952
JETA:10-16	9303131	479.81	479.8149	1.00	1.00	479.8149
JP8:10-16	9303131	489.70	489.7031	1.00	1.00	489.7031
DSL:10-22	13179430	503.88	503.8828	1.00	1.00	503.8828
GAIAFP:10-24	13326030	314.81	314.8053	1.00	1.00	314.8053
DSL:10-24	13326030	506.33	506.3348	1.00	1.00	506.3348
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	11048049	501.26	501.2557	1.00	1.00	501.2557
DSL:10-28	15073575	571.62	571.6241	1.00	1.00	571.6241
DSL:12-24	11194648	504.18	504.1814	1.00	1.00	504.1814
RRFPLH:16-24	4022899	582.21	582.2121	1.00	1.00	582.2121
CRUDE:10-40	15402419	15.40	15.4024	1.00	1.00	15.4024
TRIMSOL:12-36	13201333	536.52	536.5200	1.00	1.00	536.5200
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	13271038	1717.65	1717.6456	1.00	1.00	1717.6456
TRANSOIL:12-40	13271038	461.17	461.1715	1.00	1.00	461.1715
HYFL:12-40	13271038	568.18	568.1818	1.00	1.00	568.1818
MO:22-32	2049065	103.58	103.5768	1.00	1.00	103.5768
MO:20-36	2525723	102.95	102.9475	1.00	1.00	102.9475
MO:22-36	2153284	98.30	98.2970	1.00	1.00	98.2970
HYFL:24-36	2006684	140.41	140.4133	1.00	1.00	140.4133
TPHHF:24-36	2006684	2.01e-07	2.0067e-07	1.00	1.00	2.0067e-07
MO:24-36	2006684	114.39	114.3924	1.00	1.00	114.3924
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

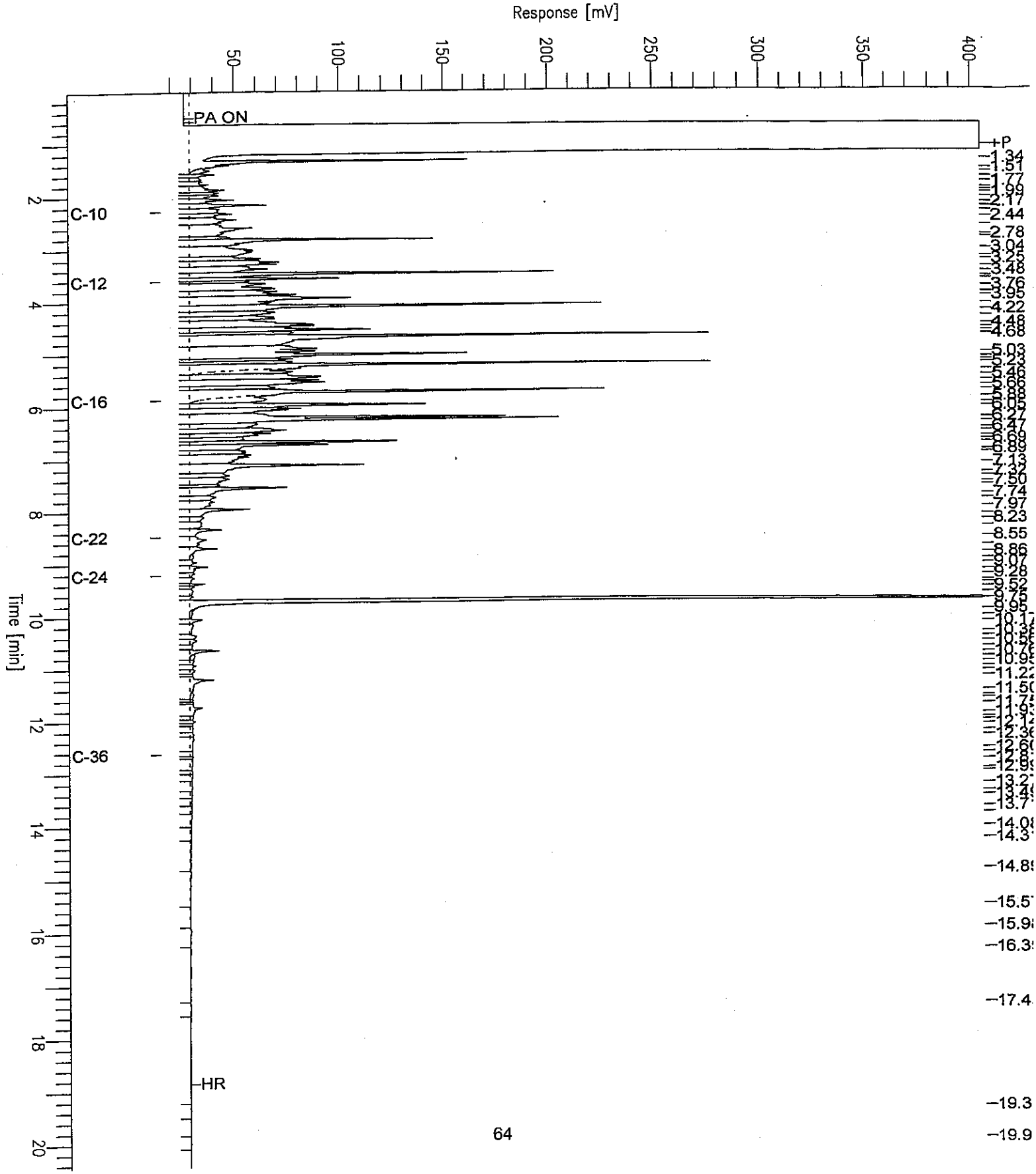
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A047P.TXO

Chromatogram

Sample Name : msd,qc267443sg,95308
FileName : G:\GC11\CHA\285A047.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #: 95308
Date : 10/12/04 09:37 AM
Time of Injection: 10/12/04 09:00 AM
Low Point : 15.54 mV High Point : 404.59 mV
Plot Scale: 389.0 mV



Software Version: 4.1<2F12>
Date: 10/12/04 09:21 AM
Sample Name : msd,qc267443sg,95308
Data File : G:\GC11\CHA\285A047.RAW Date: 10/12/04 09:00 AM
Sequence File: G:\GC11\285.SEQ Cycle: 47 Channel : A
Instrument : GC11 Rack/Vial: 0/47 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1636492	54.30	54.3002			9.746	108.6003

CURTIS & TOMPKINS,LTD. BERKELEY

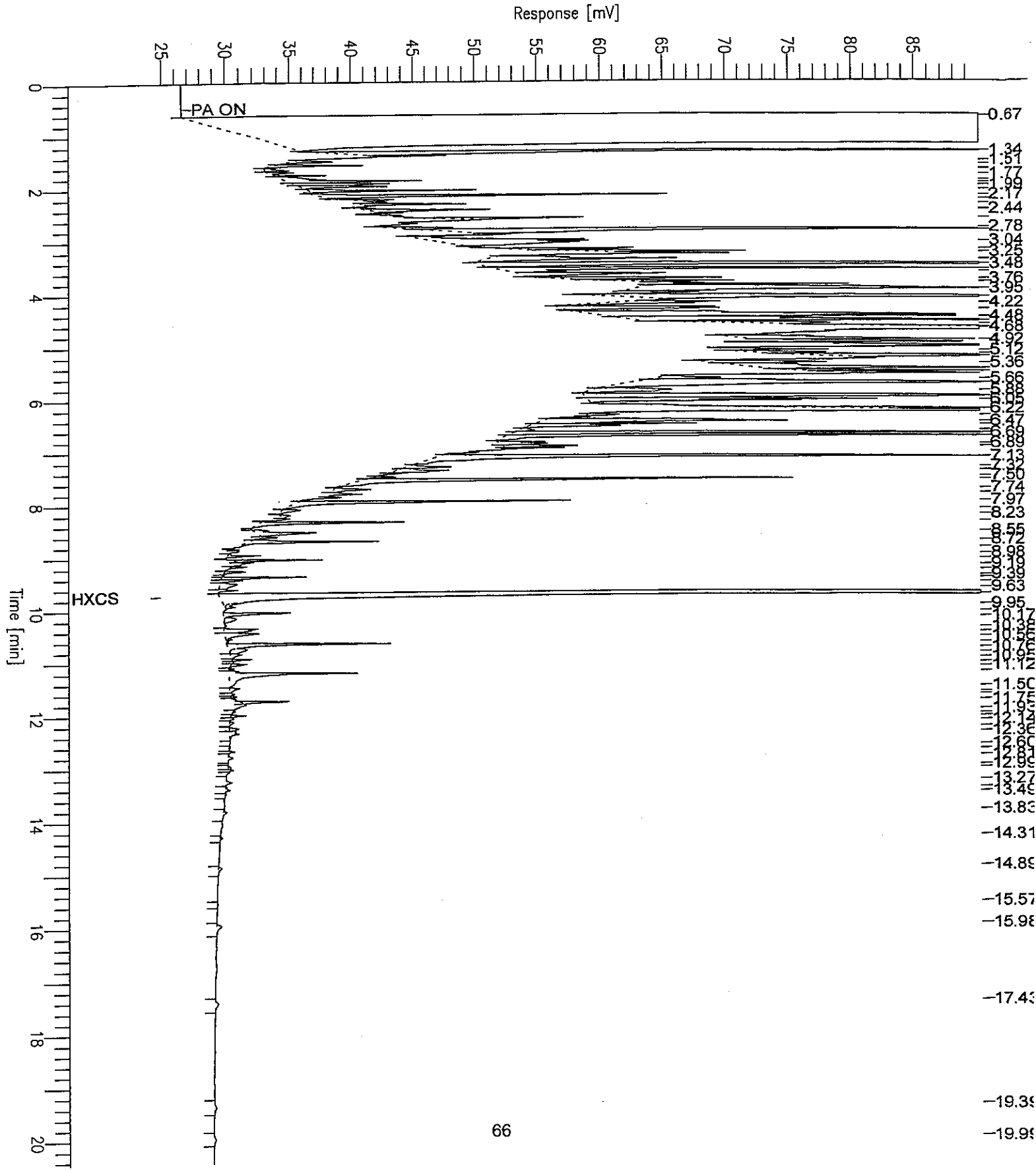
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A047.TXO

Chromatogram

Sample Name : msd,qc267443sg,95308
FileName : G:\GC11\CHA\285A047.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 95308 Page 1 of 1
Date : 10/12/04 09:21 AM
Time of Injection: 10/12/04 09:00 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

Software Version: 4.1<2F12>
Sample Name : C10-16
Sample Number:
Operator :

Time : 8/23/04 09:53 AM
Study : s

Instrument : GC11
AutoSampler : HP7673A
Rack/Vial : 0/3

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 8/22/04 02:35 PM
Delay Time : 0.00 min.
End Time : 20.46 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC11\CHA\235A003.RAW
Result File : C:\WINDOWS\TEMP\~RST2F1F.RST
Inst Method : G:\GC11\CHASHORT from C:\WINDOWS\TEMP\~RST2F1F.RST
Proc Method : G:\GC11\ATEH230S.MTH
Calib Method : G:\GC11\ATEH230S.MTH
Sequence File : G:\GC11\235.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
1	2.108	1545.44	443.72	0.03	0.03	BB	3.48
210 2	2.282	876589.60	223724.11	15.53	15.53	BB	3.92
0	2.391	0.00	0.00	0.00	0.00		------
3	3.329	764.48	350.30	0.01	0.01	BV	2.18
4	3.415	4073.02	2311.29	0.07	0.07	VB	1.76
5	3.535	418.71	279.78	0.01	0.01	BV	1.50
6	3.601	1215282.94	665873.04	21.54	21.54	VB	1.83
0	3.729	0.00	0.00	0.00	0.00		------
7	4.534	1158.75	599.18	0.02	0.02	BV	1.93
8	4.627	6640.06	5314.57	0.12	0.12	VB	1.25
9	4.735	101.39	102.96	0.00	0.00	BB	0.98
10	4.809	1584023.27	912230.58	28.07	28.07	BB	1.74
11	5.613	4020.02	2028.36	0.07	0.07	BV	1.98
12	5.703	9292.15	6406.15	0.16	0.16	VB	1.45
13	5.876	1924139.33	1.02e+06	34.10	34.10	BE	1.90
0	6.009	0.00	0.00	0.00	0.00		------
14	6.362	2923.68	344.85	0.05	0.05	EB	8.48

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
0	8.634	0.00	0.00	0.00	0.00		------
15	9.970	706.85	87.27	0.01	0.01	BB	8.10
0	12.822	0.00	0.00	0.00	0.00		------
16	12.827	9419.11	191.13	0.17	0.17	BB	49.28
17	13.494	1667.36	111.21	0.03	0.03	BB	14.99
		5642766.17	2.84e+06	100.00	100.00		

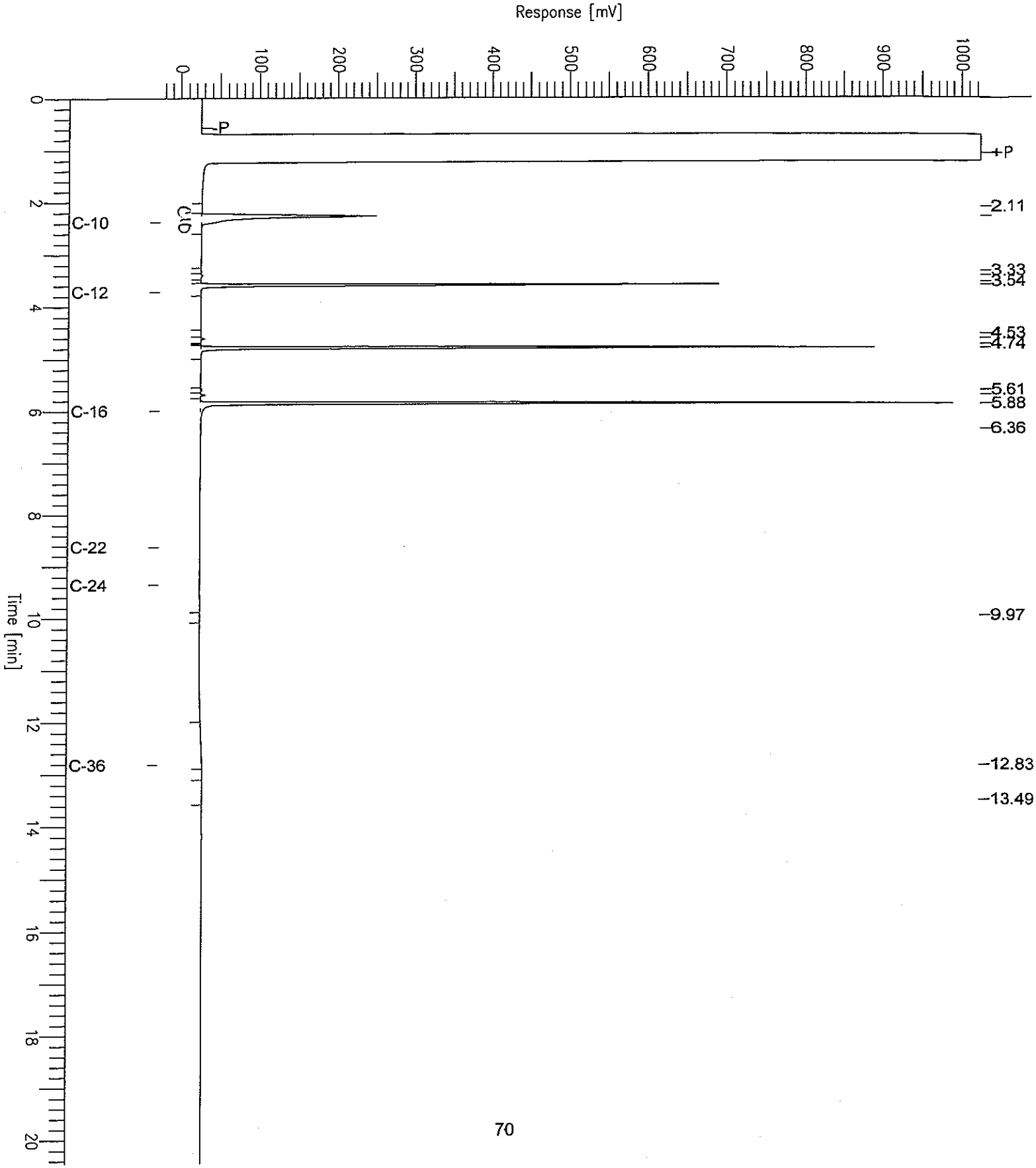
Missing Component Report

Component	Expected Retention (Calibration File)
C-10	2.391
C-12	3.729
C-16	6.009
C-22	8.634
C-36	12.822

Chromatogram

Sample Name : C10-16
FileName : G:\GC11\CHA\235A003.RAW
Method : ATEH230S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #:
Date : 8/23/04 09:53 AM
Time of Injection: 8/22/04 02:35 PM
Low Point : -26.85 mV High Point : 1024.00 mV
Plot Scale: 1050.9 mV



Software Version: 4.1<2F12>
Sample Name : C12-60 Time : 8/23/04 09:53 AM
Sample Number: Study : s
Operator :

Instrument : GC11 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/4

Interface Serial # : NONE Data Acquisition Time: 8/22/04 03:04 PM
Delay Time : 0.00 min.
End Time : 20.46 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC11\CHA\235A004.RAW
Result File : C:\WINDOWS\TEMP\~RST2F1F.RST
Inst Method : G:\GC11\CHASHORT from C:\WINDOWS\TEMP\~RST2F1F.RST
Proc Method : G:\GC11\ATEH230S.MTH
Calib Method : G:\GC11\ATEH230S.MTH
Sequence File : G:\GC11\235.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

DEFAULT REPORT

	Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
	1	2.298	1139.12	309.29	0.00	0.00	BB	3.68
	0	2.391	0.00	0.00	0.00	0.00		------
	2	3.326	2899.15	1422.93	0.01	0.01	BV	2.04
	3	3.414	12668.50	7243.14	0.04	0.04	VB	1.75
	4	3.536	207.96	121.02	7e-04	6.72e-04	BV	1.72
C12	5	3.610	2191435.66	1.02e+06	7.08	7.08	VB	2.15
	0	3.729	0.00	0.00	0.00	0.00		------
	6	4.225	602.21	329.09	0.00	0.00	BB	1.83
	7	4.305	316.34	255.52	0.00	0.00	BB	1.24
	8	4.450	274.53	131.87	9e-04	8.87e-04	BV	2.08
	9	4.533	2974.04	1647.49	0.01	0.01	VV	1.81
	10	4.626	12448.91	9104.15	0.04	0.04	VB	1.37
C14	11	4.813	2301474.31	990108.38	7.44	7.44	BB	2.32
	12	5.522	224.35	164.07	7e-04	7.25e-04	BV	1.37
	13	5.613	992.18	598.50	0.00	0.00	VB	1.66
	14	5.703	8076.64	5714.12	0.03	0.03	BB	1.41
C16	15	5.878	2422763.93	1.00e+06	7.83	7.83	BE	2.41

	Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
	0	6.009	0.00	0.00	0.00	0.00		------
	16	6.211	968.61	125.72	0.00	0.00	EB	7.70
	17	6.470	974.09	390.71	0.00	0.00	BB	2.49
	18	6.548	6058.76	2679.53	0.02	0.02	BB	2.26
	19	6.666	14710.34	10582.37	0.05	0.05	BV	1.39
18	20	6.834	2561404.98	1.08e+06	8.28	8.28	VV	2.38
	21	7.174	2461.31	814.73	0.01	0.01	VV	3.02
	22	7.240	723.57	472.91	0.00	0.00	VB	1.53
	23	7.333	468.85	222.96	0.00	0.00	BV	2.10
	24	7.422	1739.37	683.83	0.01	0.01	VB	2.54
	25	7.542	879.78	546.77	0.00	0.00	BB	1.61
20	26	7.700	2624544.17	1.09e+06	8.48	8.48	BB	2.41
	27	8.066	602.21	473.58	0.00	0.00	BB	1.27
	28	8.218	1062.35	588.30	0.00	0.00	BV	1.81
	29	8.261	473.27	327.14	0.00	0.00	VB	1.45
	30	8.341	1511.24	768.22	0.00	0.00	BV	1.97
22	31	8.489	2719960.26	1.04e+06	8.79	8.79	VB	2.61
	0	8.634	0.00	0.00	0.00	0.00		------
	32	8.816	1850.18	1057.29	0.01	0.01	BB	1.75
	33	8.952	942.02	513.35	0.00	0.00	BB	1.84
	34	9.076	3829.00	2215.68	0.01	0.01	BV	1.73
24	35	9.218	2761253.29	986121.99	8.92	8.92	VB	2.80
	36	9.515	2591.21	1243.37	0.01	0.01	BB	2.08
	37	9.665	184.28	75.81	6e-04	5.96e-04	BB	2.43
	38	9.755	2359.76	1270.12	0.01	0.01	BV	1.86
26	39	9.890	2811454.90	1.02e+06	9.09	9.09	VB	2.74
	40	10.160	6680.35	4767.53	0.02	0.02	BB	1.40
	41	10.387	2218.15	1320.79	0.01	0.01	BV	1.68
28	42	10.516	2810001.46	1.03e+06	9.08	9.08	VB	2.73
	43	10.760	7137.94	4703.55	0.02	0.02	BB	1.52
	44	10.905	424.75	194.44	0.00	0.00	BB	2.18
	45	10.976	6257.60	3661.77	0.02	0.02	BV	1.71
30	46	11.102	2695186.37	1.06e+06	8.71	8.71	VB	2.54
	47	11.325	8678.85	5378.35	0.03	0.03	BB	1.61
	48	11.532	696.69	318.29	0.00	0.00	BV	2.19
32	49	11.648	2476061.17	980978.95	8.00	8.00	VB	2.52
	50	11.789	449.30	162.10	0.00	0.00	BB	2.77
	51	11.854	9106.21	6887.21	0.03	0.03	BB	1.32
	52	12.107	91967.24	71780.72	0.30	0.30	BE	1.28
	53	12.213	864.03	251.95	0.00	0.00	EV	3.43
	54	12.297	1118.56	264.33	0.00	0.00	VV	4.23
	55	12.349	6754.02	4644.95	0.02	0.02	VE	1.45
	56	12.426	979.83	333.20	0.00	0.00	EV	2.94
	57	12.525	9869.24	3443.63	0.03	0.03	VV	2.87
36	58	12.636	1685004.08	745897.86	5.45	5.45	VV	2.26
	59	12.696	7170.20	4289.07	0.02	0.02	VV	1.67
	60	12.771	1578.68	502.32	0.01	0.01	VV	3.14
	0	12.822	0.00	0.00	0.00	0.00		------
	61	12.843	2209.70	557.38	0.01	0.01	VV	3.96

	Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
	62	12.921	799.91	200.93	0.00	0.00	VB	3.98
	63	13.056	2689.24	1317.43	0.01	0.01	BV	2.04
	64	13.105	7582.75	5185.58	0.02	0.02	VB	1.46
	65	13.384	547.16	329.23	0.00	0.00	BV	1.66
	66	13.518	768.75	114.66	0.00	0.00	VV	6.70
	67	13.612	646.89	228.48	0.00	0.00	VV	2.83
40	68	13.718	439720.35	217504.97	1.42	1.42	VV	2.02
	69	13.822	9703.63	5080.57	0.03	0.03	VB	1.91
	70	14.038	933.99	388.36	0.00	0.00	BB	2.40
	71	14.418	1881.55	875.53	0.01	0.01	BB	2.15
	72	14.848	1054.76	411.30	0.00	0.00	BB	2.56
	73	15.204	557.75	144.68	0.00	0.00	BV	3.86
44	74	15.371	155899.62	59444.10	0.50	0.50	VB	2.62
	75	15.930	637.92	197.81	0.00	0.00	BB	3.22
	76	16.596	636.01	174.65	0.00	0.00	BB	3.64
	77	17.368	685.87	157.12	0.00	0.00	BB	4.37
	78	18.280	3599.99	815.41	0.01	0.01	BB	4.41
	79	19.329	1944.36	346.86	0.01	0.01	BB	5.61
			30942210.54	1.25e+07	100.00	100.00		

Missing Component Report

Component	Expected Retention (Calibration File)
C-10	2.391
C-12	3.729
C-16	6.009
C-22	8.634
C-36	12.822

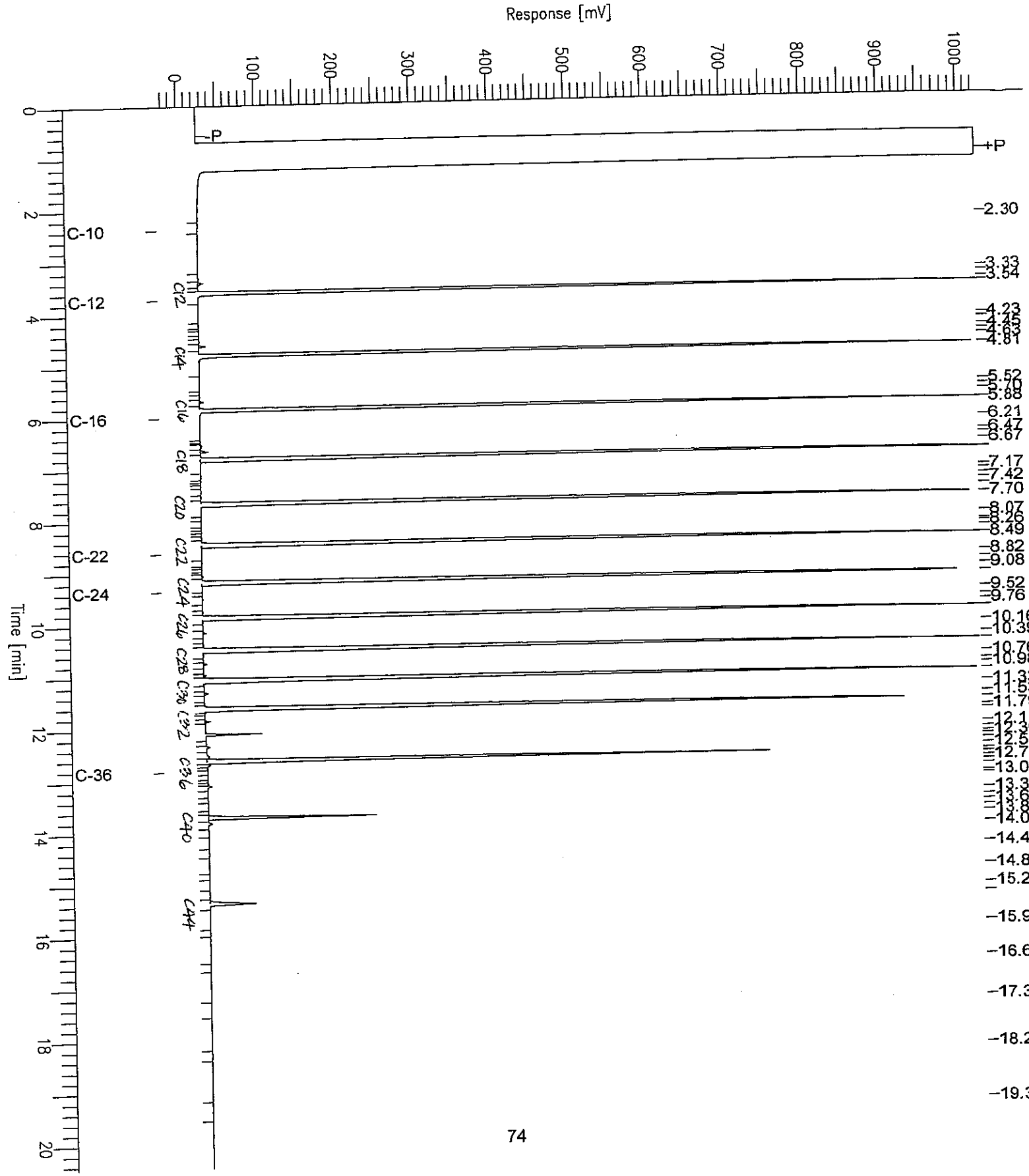
Chromatogram

Sample Name : C12-60
FileName : G:\GC11\CHA\235A004.RAW
Method : ATEH230S.MTH
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: -27 mV

Sample #:
Date : 8/23/04 09:53 AM
Time of Injection: 8/22/04 03:04 PM
Low Point : -26.84 mV
Plot Scale: 1050.8 mV

High Point : 1024.00 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By:
Calnum: 114295755001 Name: mo Type: (normal) Date: 23-JUL-2004 17:32 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	205a013	114295755013	mo	23-JUL-2004 17:32	04WS1208
2	205a014	114295755014	mo	23-JUL-2004 18:01	04WS1209
3	205a015	114295755015	mo	23-JUL-2004 18:30	04WS1210
4	205a016	114295755016	mo	23-JUL-2004 18:59	04WS1211
5	205a017	114295755017	mo	23-JUL-2004 19:28	04WS1212
6	205a018	114295755018	mo	23-JUL-2004 19:57	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Motor Oil C20-C36	21196	25173	24978	24873	25475	25510	AVRG	R		4.076E-5		mg/L	24534	7	0.995	20	
Motor Oil C22-C32	17291	19790	19639	19975	20922	21081	AVRG	R		5.055E-5		mg/L	19783	7	0.995	20	
Motor Oil C22-C36	18882	22345	22239	22221	22603	23146	AVRG	R		4.565E-5		mg/L	21906	7	0.995	20	
Motor Oil C24-C36	14945	17893	17883	17772	17977	18783	AVRG	R		5.701E-5		mg/L	17542	8	0.995	20	

7.26.04.

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/26/04 12:41 PM
Sample Name : ical,04ws1208,mo
Data File : G:\GC11\CHA\205A013.RAW Date: 7/23/04 05:32 PM
Sequence File: G:\GC11\205.SEQ Cycle: 13 Channel : A
Instrument : GC11 Rack/Vial: 0/13 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	4172	0.12	0.1248	1.00	1.00	0.1248
JP5:10-16	4172	0.20	0.2000	1.00	1.00	0.2000
JETA:10-16	4172	0.22	0.2152	1.00	1.00	0.2152
JP8:10-16	4172	0.22	0.2196	1.00	1.00	0.2196
DSL:10-22	129964	5.70	5.6998	1.00	1.00	5.6998
DSL:10-24	326779	14.20	14.1957	1.00	1.00	14.1957
GAIAFP:10-24	326779	7.72	7.7196	1.00	1.00	7.7196
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	129964	6.59	6.5892	1.00	1.00	6.5892
DSL:10-28	763674	33.01	33.0133	1.00	1.00	33.0133
DSL:12-24	326779	16.39	16.3863	1.00	1.00	16.3863
RRFPLH:16-24	322607	46.69	46.6891	1.00	1.00	46.6891
CRUDE:10-40	1084374	1.08	1.0844	1.00	1.00	1.0844
TRIMSOL:12-36	1074040	43.65	43.6504	1.00	1.00	43.6504
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	1084374	54.68	54.6805	1.00	1.00	54.6805
BUNKC:12-40	1084374	140.35	140.3485	1.00	1.00	140.3485
TRANSOIL:12-40	1084374	23.27	23.2692	1.00	1.00	23.2692
MO:22-32	864549	48.08	48.0832	1.00	1.00	48.0832
MO:20-36	1059777	48.49	48.4937	1.00	1.00	48.4937
MO:22-36	944076	48.44	48.4357	1.00	1.00	48.4357
HYFL:24-36	747261	52.29	52.2879	1.00	1.00	52.2879
TPHHF:24-36	747261	7.47e-08	7.4726e-08	1.00	1.00	7.4726e-08
MO:24-36	747261	48.69	48.6882	1.00	1.00	48.6882
C-36	0	0.00	0.0000	1.00	1.00	0.0000

~~LOSATT=~~

CAL FACTOR: 24534.08846

RSD%: 6.75

CURTIS & TOMPKINS,LTD. BERKELEY

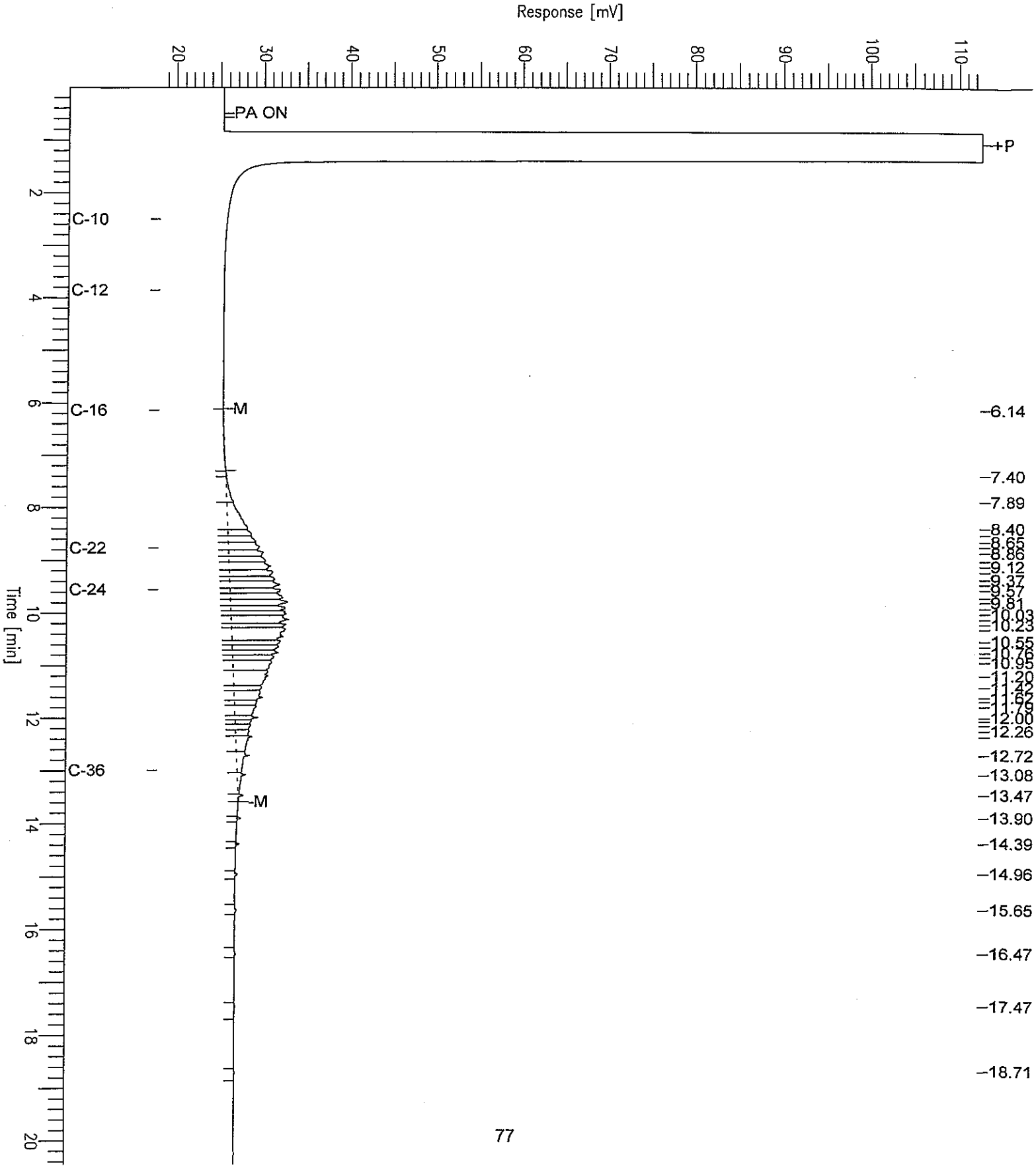
Analyzed By: 7.26.04 Reviewed By: CW 7/26/04

Report stored in ASCII file: G:\GC11\CHA\205A013P.TX0

Chromatogram

Sample Name : ical,04ws1208,mo
FileName : G:\GC11\CHA\205A013.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 50mg/L
Date : 7/26/04 12:41 PM
Time of Injection: 7/23/04 05:32 PM
Low Point : 18.10 mV High Point : 112.62 mV
Plot Scale: 94.5 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:42 PM
Sample Name : ical,04ws1209,mo
Data File : G:\GC11\CHA\205A014.RAW Date: 7/23/04 06:01 PM
Sequence File: G:\GC11\205.SEQ Cycle: 14 Channel : A
Instrument : GC11 Rack/Vial: 0/14 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	839038	36.80	36.7977	1.00	1.00	36.7977
DSL:10-24	1951891	84.79	84.7925	1.00	1.00	84.7925
GAIAFP:10-24	1951891	46.11	46.1102	1.00	1.00	46.1102
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	839038	42.54	42.5390	1.00	1.00	42.5390
DSL:10-28	4380414	189.36	189.3631	1.00	1.00	189.3631
DSL:12-24	1951891	97.88	97.8774	1.00	1.00	97.8774
RRFPLH:16-24	1951891	282.49	282.4865	1.00	1.00	282.4865
CRUDE:10-40	6599919	6.60	6.5999	1.00	1.00	6.5999
TRIMSOL:12-36	6425195	261.13	261.1286	1.00	1.00	261.1286
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	6599919	332.81	332.8068	1.00	1.00	332.8068
BUNKC:12-40	6599919	854.22	854.2151	1.00	1.00	854.2151
TRANSOIL:12-40	6599919	141.63	141.6253	1.00	1.00	141.6253
MO:22-32	4947454	275.16	275.1600	1.00	1.00	275.1600
MO:20-36	6293292	287.97	287.9709	1.00	1.00	287.9709
MO:22-36	5586158	286.60	286.5974	1.00	1.00	286.5974
HYFL:24-36	4473304	313.01	313.0095	1.00	1.00	313.0095
TPHHF:24-36	4473304	4.47e-07	4.4733e-07	1.00	1.00	4.4733e-07
MO:24-36	4473304	291.46	291.4607	1.00	1.00	291.4607
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

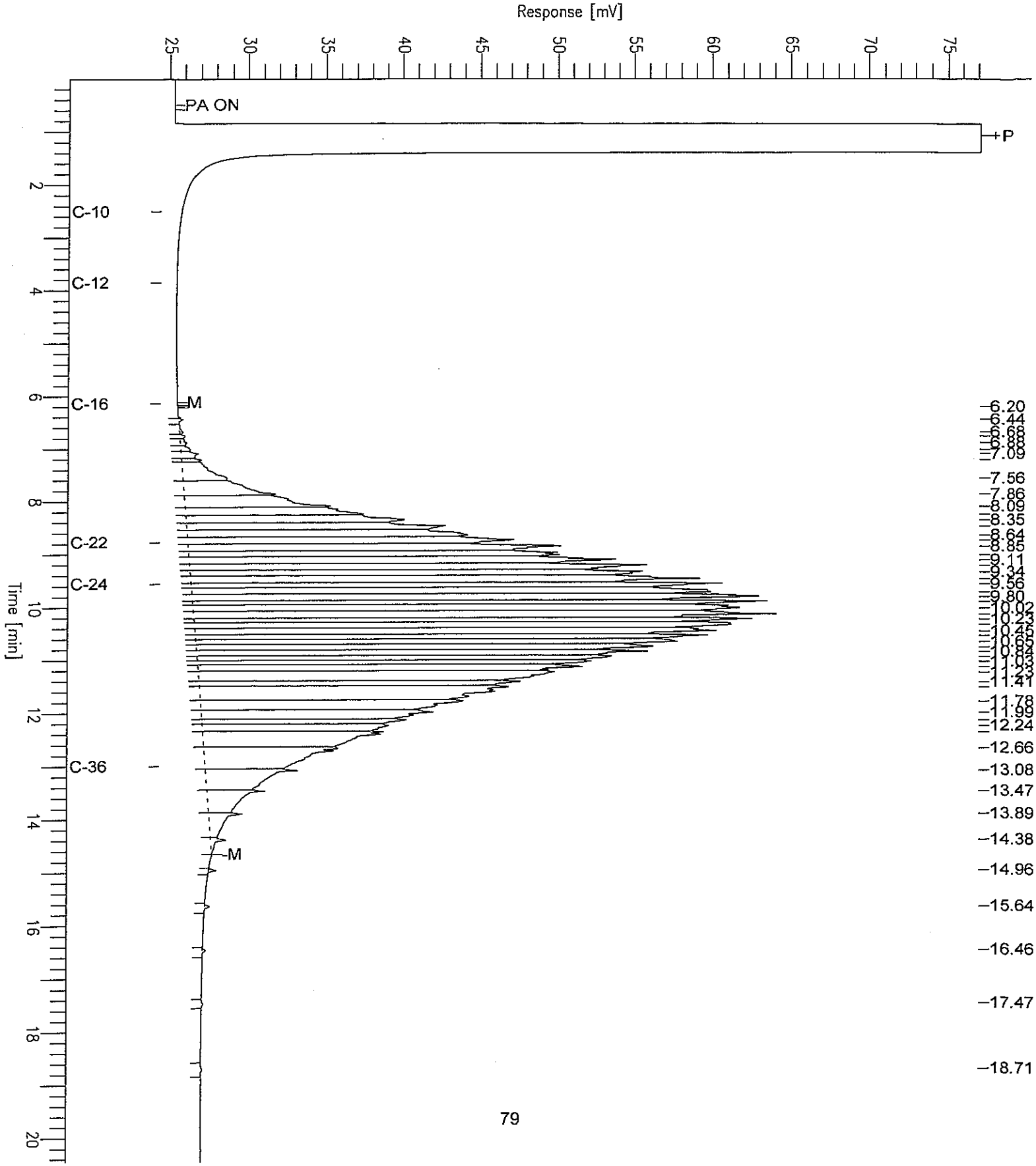
Analyzed By: 7.26.04. Reviewed By: 7/26/04

Report stored in ASCII file: G:\GC11\CHA\205A014P.TX0

Chromatogram

Sample Name : ical,04ws1209,mo
FileName : G:\GC11\CHA\205A014.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 250mg/L Page 1 of 1
Date : 7/26/04 12:42 PM
Time of Injection: 7/23/04 06:01 PM
Low Point : 24.41 mV High Point : 77.11 mV
Plot Scale: 52.7 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:42 PM
Sample Name : ical,04ws1210,mo
Data File : G:\GC11\CHA\205A015.RAW Date: 7/23/04 06:30 PM
Sequence File: G:\GC11\205.SEQ Cycle: 15 Channel : A
Instrument : GC11 Rack/Vial: 0/15 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	236	0.01	0.0071	1.00	1.00	0.0071
JP5:10-16	236	0.01	0.0113	1.00	1.00	0.0113
JETA:10-16	236	0.01	0.0122	1.00	1.00	0.0122
JP8:10-16	236	0.01	0.0124	1.00	1.00	0.0124
DSL:10-22	1716736	75.29	75.2909	1.00	1.00	75.2909
DSL:10-24	3895055	169.21	169.2058	1.00	1.00	169.2058
GAIAFP:10-24	3895055	92.01	92.0142	1.00	1.00	92.0142
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1716736	87.04	87.0381	1.00	1.00	87.0381
DSL:10-28	8721792	377.04	377.0387	1.00	1.00	377.0387
DSL:12-24	3895055	195.32	195.3172	1.00	1.00	195.3172
RRFPLH:16-24	3894819	563.68	563.6758	1.00	1.00	563.6758
CRUDE:10-40	13183405	13.18	13.1834	1.00	1.00	13.1834
TRIMSOL:12-36	12836418	521.69	521.6894	1.00	1.00	521.6894
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	13183405	664.79	664.7850	1.00	1.00	664.7850
BUNKC:12-40	13183405	1706.30	1706.3034	1.00	1.00	1706.3034
TRANSOIL:12-40	13183405	282.90	282.8980	1.00	1.00	282.8980
MO:22-32	9819580	546.13	546.1305	1.00	1.00	546.1305
MO:20-36	12488912	571.47	571.4725	1.00	1.00	571.4725
MO:22-36	11119681	570.49	570.4945	1.00	1.00	570.4945
HYFL:24-36	8941363	625.65	625.6520	1.00	1.00	625.6520
TPHHF:24-36	8941363	8.94e-07	8.9414e-07	1.00	1.00	8.9414e-07
MO:24-36	8941363	582.58	582.5796	1.00	1.00	582.5796
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

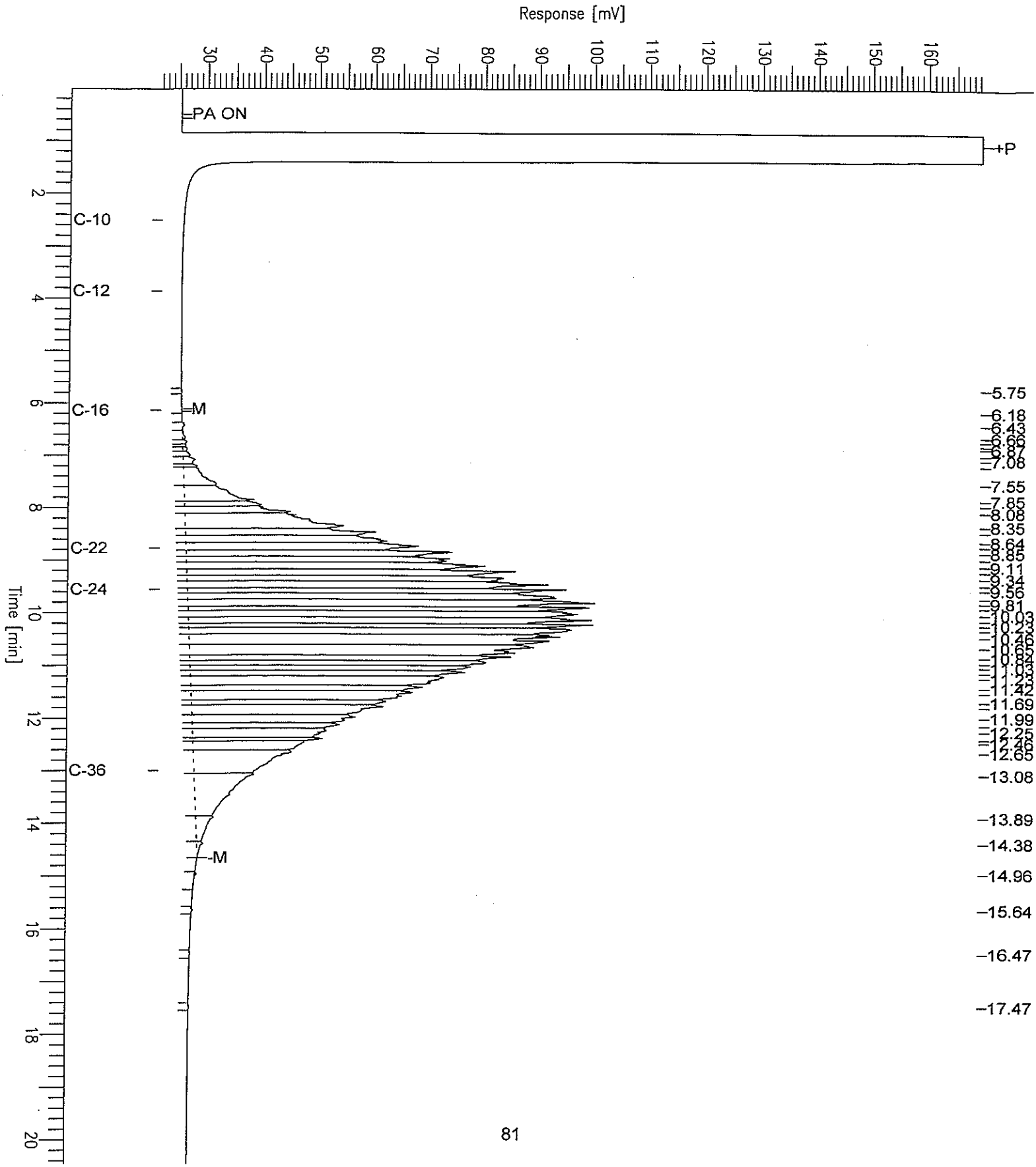
Analyzed By: fg 7.26.04 Reviewed By: CW 7/26/04

Report stored in ASCII file: G:\GC11\CHA\205A015P.TX0

Chromatogram

Sample Name : ical,04ws1210,mo
FileName : G:\GC11\CHA\205A015.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 7/26/04 12:42 PM
Time of Injection: 7/23/04 06:30 PM
Low Point : 21.81 mV High Point : 169.39 mV
Plot Scale: 147.6 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:43 PM
Sample Name : ical,04ws1211,mo
Data File : G:\GC11\CHA\205A016.RAW Date: 7/23/04 06:59 PM
Sequence File: G:\GC11\205.SEQ Cycle: 16 Channel : A
Instrument : GC11 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	3359702	147.35	147.3464	1.00	1.00	147.3464
DSL:10-24	7809154	339.24	339.2389	1.00	1.00	339.2389
GAIAFP:10-24	7809154	184.48	184.4783	1.00	1.00	184.4783
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	3359702	170.34	170.3361	1.00	1.00	170.3361
DSL:10-28	17435919	753.75	753.7461	1.00	1.00	753.7461
DSL:12-24	7809154	391.59	391.5893	1.00	1.00	391.5893
RRFPLH:16-24	7809154	1130.18	1130.1761	1.00	1.00	1130.1761
CRUDE:10-40	26293443	26.29	26.2934	1.00	1.00	26.2934
TRIMSOL:12-36	25580930	1039.64	1039.6436	1.00	1.00	1039.6436
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	26293443	1325.87	1325.8705	1.00	1.00	1325.8705
BUNKC:12-40	26293443	3403.11	3403.1110	1.00	1.00	3403.1110
TRANSOIL:12-40	26293443	564.22	564.2217	1.00	1.00	564.2217
MO:22-32	19975000	1110.94	1110.9393	1.00	1.00	1110.9393
MO:20-36	24872770	1138.14	1138.1379	1.00	1.00	1138.1379
MO:22-36	22221227	1140.06	1140.0585	1.00	1.00	1140.0585
HYFL:24-36	17771775	1243.54	1243.5405	1.00	1.00	1243.5405
TPHHF:24-36	17771775	1.78e-06	1.7772e-06	1.00	1.00	1.7772e-06
MO:24-36	17771775	1157.93	1157.9302	1.00	1.00	1157.9302
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

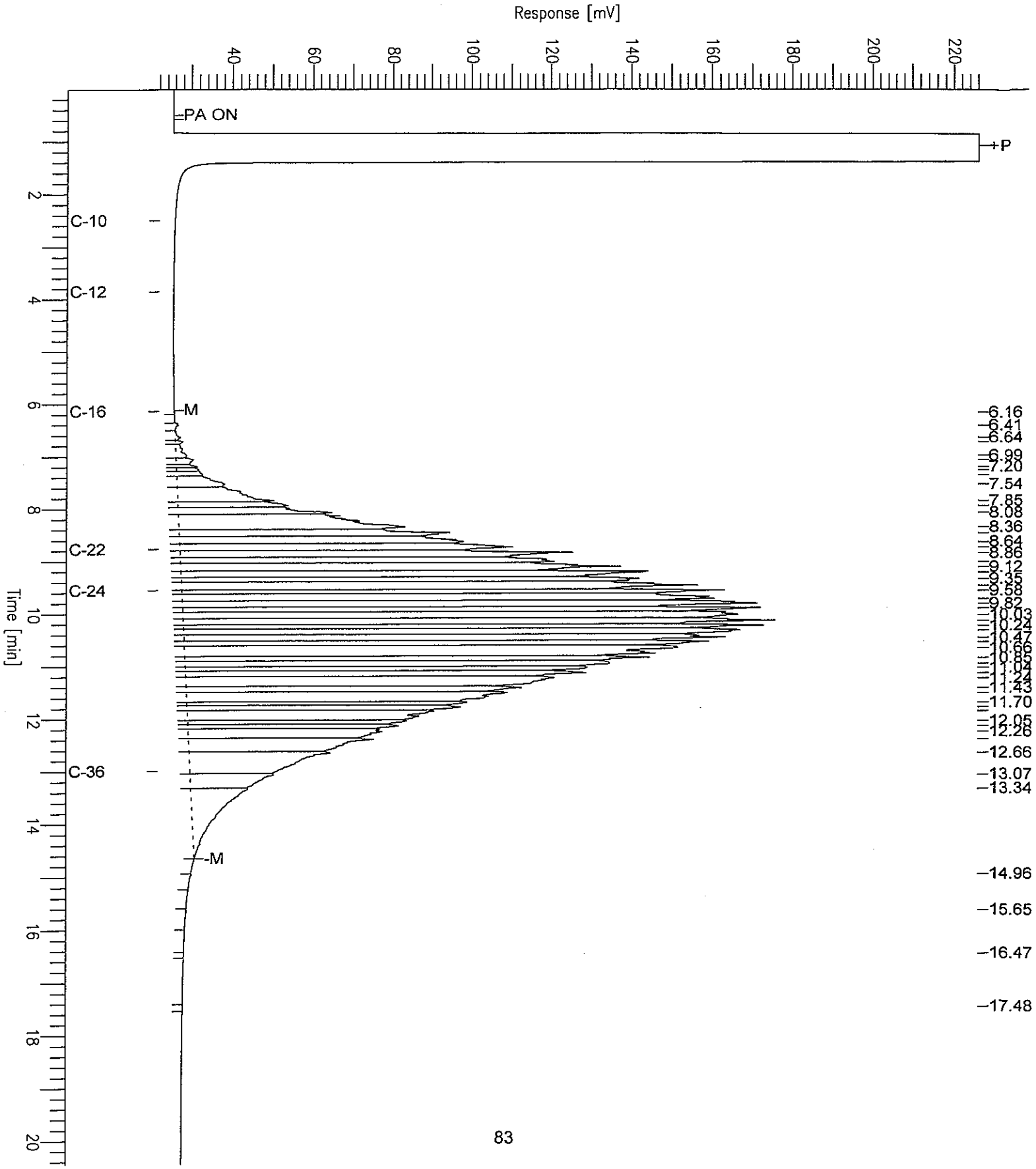
Analyzed By: 7.26.04. Reviewed By: 7/26/04

Report stored in ASCII file: G:\GC11\CHA\205A016P.TX0

Chromatogram

Sample Name : ical,04ws1211,mo
FileName : G:\GC11\CHA\205A016.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 1000mg/L
Date : 7/26/04 12:43 PM
Time of Injection: 7/23/04 06:59 PM
Low Point : 21.82 mV High Point : 226.05 mV
Plot Scale: 204.2 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:43 PM
Sample Name : ical,04ws1212,mo
Data File : G:\GC11\CHA\205A017.RAW Date: 7/23/04 07:28 PM
Sequence File: G:\GC11\205.SEQ Cycle: 17 Channel : A
Instrument : GC11 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	1709	0.05	0.0511	1.00	1.00	0.0511
JP5:10-16	1709	0.08	0.0819	1.00	1.00	0.0819
JETA:10-16	1709	0.09	0.0881	1.00	1.00	0.0881
JP8:10-16	1709	0.09	0.0900	1.00	1.00	0.0900
DSL:10-22	9126747	400.27	400.2716	1.00	1.00	400.2716
DSL:10-24	20691852	898.88	898.8785	1.00	1.00	898.8785
GAIAFP:10-24	20691852	488.81	488.8105	1.00	1.00	488.8105
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	9126207	462.70	462.6965	1.00	1.00	462.6965
DSL:10-28	45546637	1968.96	1968.9585	1.00	1.00	1968.9585
DSL:12-24	20691313	1037.56	1037.5640	1.00	1.00	1037.5640
RRFPLH:16-24	20690143	2994.37	2994.3710	1.00	1.00	2994.3710
CRUDE:10-40	65633343	65.63	65.6333	1.00	1.00	65.6333
TRIMSOL:12-36	65632804	2667.41	2667.4059	1.00	1.00	2667.4059
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	65632804	3309.59	3309.5931	1.00	1.00	3309.5931
BUNKC:12-40	65632804	8494.73	8494.7308	1.00	1.00	8494.7308
TRANSOIL:12-40	65632804	1408.39	1408.3911	1.00	1.00	1408.3911
MO:22-32	52304775	2909.01	2909.0078	1.00	1.00	2909.0078
MO:20-36	63688521	2914.28	2914.2841	1.00	1.00	2914.2841
MO:22-36	56506596	2899.07	2899.0668	1.00	1.00	2899.0668
HYFL:24-36	44941491	3144.68	3144.6810	1.00	1.00	3144.6810
TPHHF:24-36	44941491	4.49e-06	4.4941e-06	1.00	1.00	4.4941e-06
MO:24-36	44941491	2928.19	2928.1886	1.00	1.00	2928.1886
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

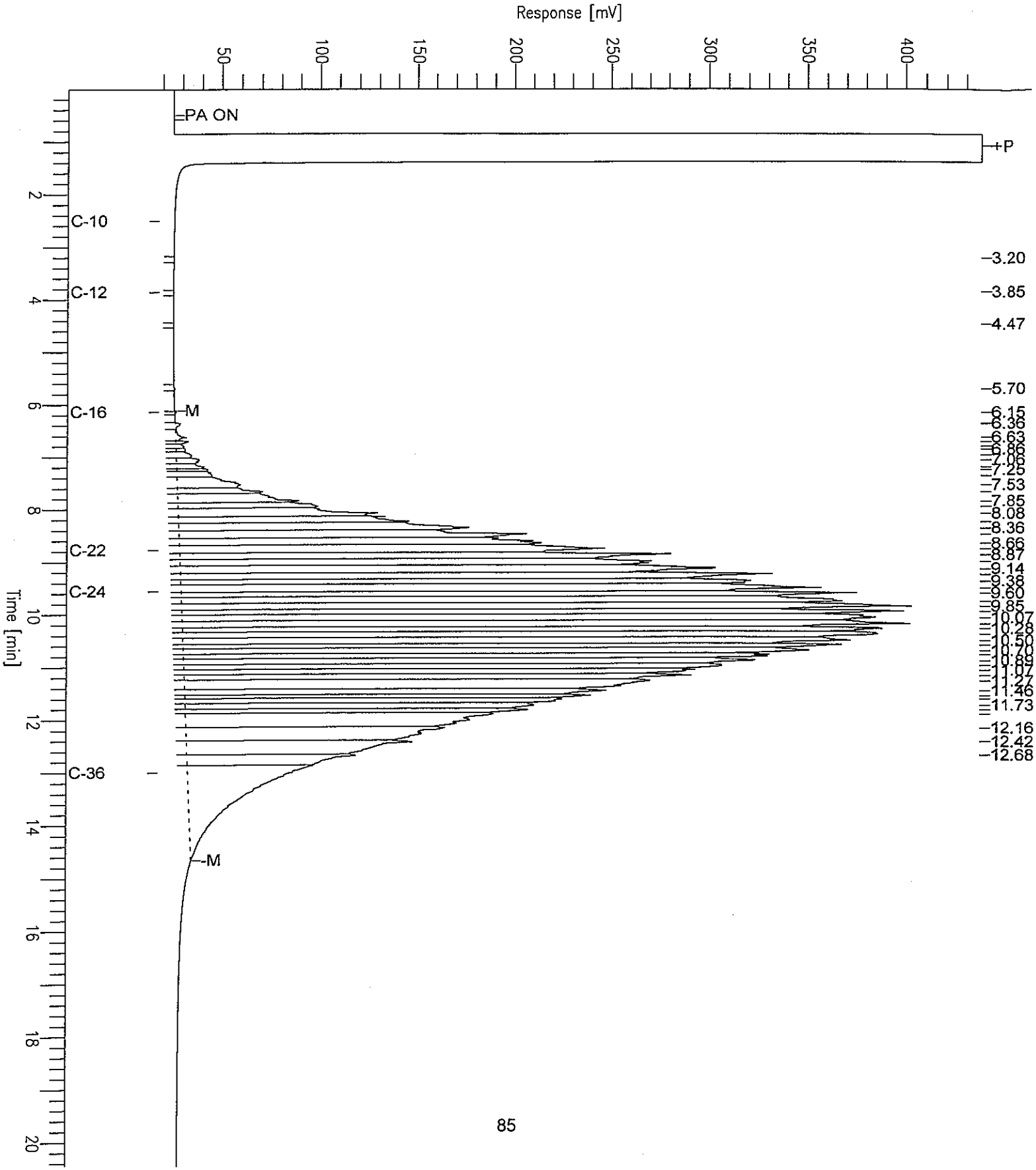
Analyzed By: 7-26-04 Reviewed By: CW Hubby

Report stored in ASCII file: G:\GC11\CHA\205A017P.TX0

Chromatogram

Sample Name : ical,04ws1212,mo
FileName : G:\GC11\CHA\205A017.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 2500mg/l
Date : 7/26/04 12:43 PM
Time of Injection: 7/23/04 07:28 PM
Low Point : 18.05 mV High Point : 437.76 mV
Plot Scale: 419.7 mV



Software Version: 4.1<2F12>
Date: 7/26/04 12:44 PM
Sample Name : ical,04ws1012,mo
Data File : G:\GC11\CHA\205A018.RAW Date: 7/23/04 07:57 PM
Sequence File: G:\GC11\205.SEQ Cycle: 18 Channel : A
Instrument : GC11 Rack/Vial: 0/18 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	16295	0.49	0.4873	1.00	1.00	0.4873
JP5:10-16	16295	0.78	0.7810	1.00	1.00	0.7810
JETA:10-16	16295	0.84	0.8404	1.00	1.00	0.8404
JP8:10-16	16295	0.86	0.8578	1.00	1.00	0.8578
DSL:10-22	16693948	732.15	732.1462	1.00	1.00	732.1462
DSL:10-24	38508127	1672.84	1672.8386	1.00	1.00	1672.8386
GAIAFP:10-24	38508127	909.69	909.6904	1.00	1.00	909.6904
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	16691536	846.26	846.2569	1.00	1.00	846.2569
DSL:10-28	89841628	3883.81	3883.8089	1.00	1.00	3883.8089
DSL:12-24	38505715	1930.87	1930.8655	1.00	1.00	1930.8655
RRFPLH:16-24	38491831	5570.71	5570.7117	1.00	1.00	5570.7117
CRUDE:10-40	132423836	132.42	132.4238	1.00	1.00	132.4238
TRIMSOL:12-36	132421424	5381.79	5381.7857	1.00	1.00	5381.7857
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	132421424	6677.47	6677.4694	1.00	1.00	6677.4694
BUNKC:12-40	132421424	17139.06	17139.0567	1.00	1.00	17139.0567
TRANSOIL:12-40	132421424	2841.58	2841.5845	1.00	1.00	2841.5845
MO:22-32	105406949	5862.36	5862.3641	1.00	1.00	5862.3641
MO:20-36	127549111	5836.44	5836.4418	1.00	1.00	5836.4418
MO:22-36	115729888	5937.51	5937.5136	1.00	1.00	5937.5136
HYFL:24-36	93915710	6571.54	6571.5431	1.00	1.00	6571.5431
TPHHF:24-36	93915710	9.39e-06	9.3916e-06	1.00	1.00	9.3916e-06
MO:24-36	93915710	6119.13	6119.1318	1.00	1.00	6119.1318
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

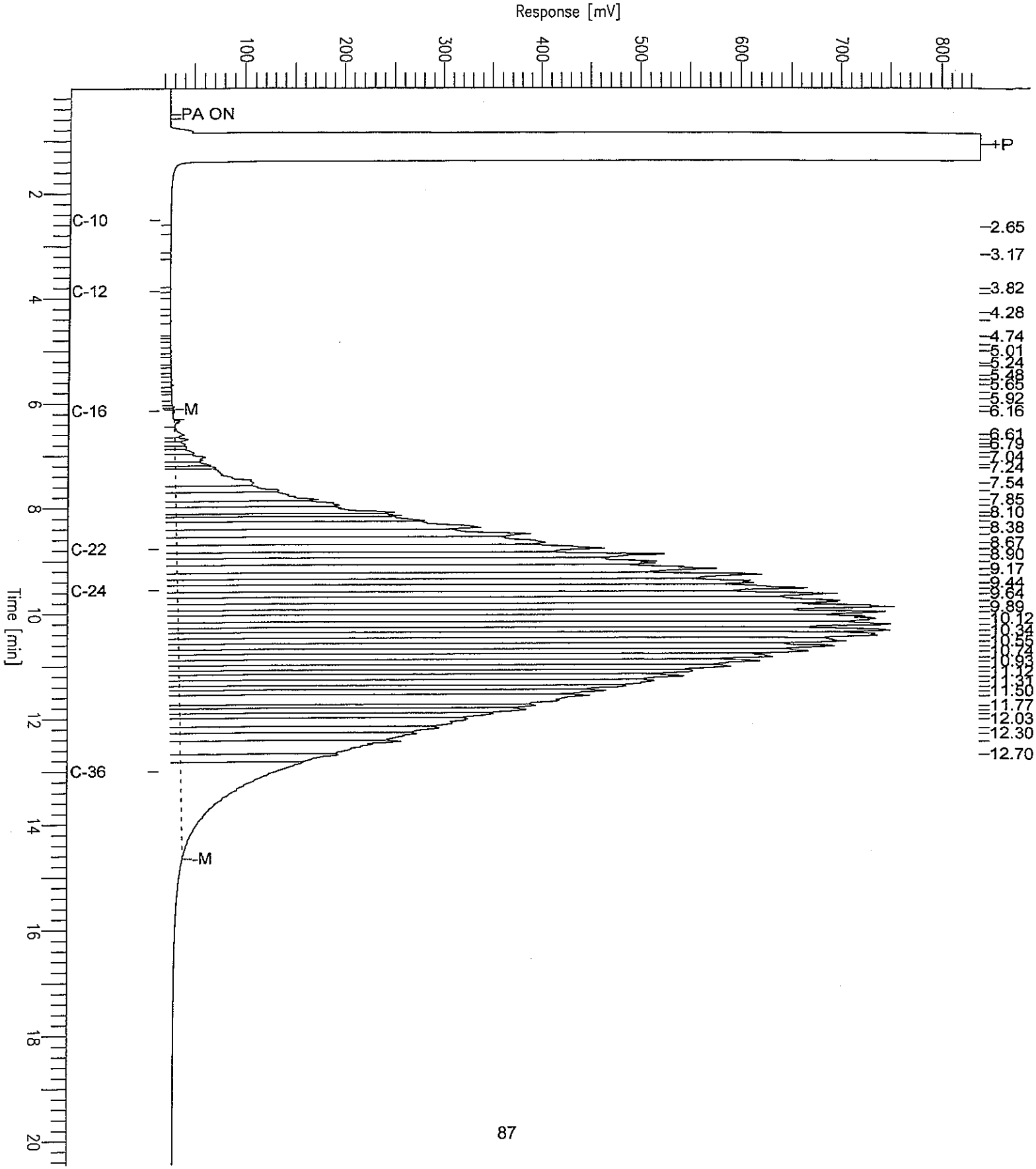
Analyzed By: JS 7-26-04 Reviewed By: [illegible]

Report stored in ASCII file: G:\GC11\CHA\205A018P.TXO

Chromatogram

Sample Name : ical,04ws1012,mo
FileName : G:\GC11\CHA\205A018.RAW
Method : ATEH205S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #: 5000mg/L Page 1 of 1
Date : 7/26/04 12:44 PM
Time of Injection: 7/23/04 07:57 PM
Low Point : 14.30 mV High Point : 838.71 mV
Plot Scale: 824.4 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By:
Calnum: 114306371001 Name: Diesel Type: (normal) Date: 30-JUL-2004 18:40 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	212a002	114306371002	dsl	30-JUL-2004 18:40	04WS1223
2	212a003	114306371003	dsl	30-JUL-2004 19:09	04WS1222
3	212a004	114306371004	dsl	30-JUL-2004 19:38	04WS1221
4	212a005	114306371005	dsl	30-JUL-2004 20:06	04WS1220
5	212a006	114306371006	dsl	30-JUL-2004 20:35	04WS1219
6	212a007	114306371007	dsl	30-JUL-2004 21:04	04WS1218
7	212a008	114306371008	dsl	30-JUL-2004 21:34	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	18157	27618	27627	27314	28204	27618	26553	AVRG	R		3.823E-5		mg/L	26156	14	0.995	20	
Diesel C10-C24	18367	27618	27627	27618	28390	27847	26763	AVRG	R		3.800E-5		mg/L	26319	13	0.995	20	
Diesel C10-C28	18461	27624	27640	27660	28478	27891	26834	AVRG	R		3.792E-5		mg/L	26370	13	0.995	20	
Diesel C12-C22	14658	23061	23163	22884	23688	23929	22902	AVRG	R		4.537E-5		mg/L	22041	15	0.995	20	
Diesel C12-C24	14868	23061	23163	23188	23874	24159	23112	AVRG	R		4.504E-5		mg/L	22204	15	0.995	20	
Diesel C12-C36	15499	23101	23192	23246	23973	24212	23190	AVRG	R		4.475E-5		mg/L	22345	14	0.995	20	

88

8/01/04

mmp 08/02/04

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 8/1/04 03:53 PM
Sample Name : ical,04ws1223,dsl
Data File : G:\GC11\CHA\212A002.RAW Date: 7/30/04 06:40 PM
Sequence File: G:\GC11\212.SEQ Cycle: 2 Channel : A
Instrument : GC11 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	92598	2.77	2.7690	1.00	1.00	2.7690
JP5:10-16	92598	4.44	4.4382	1.00	1.00	4.4382
JETA:10-16	92598	4.78	4.7758	1.00	1.00	4.7758
JP8:10-16	92598	4.87	4.8742	1.00	1.00	4.8742
DSL:10-22	181566	7.96	7.9629	1.00	1.00	7.9629
GAIAFP:10-24	183672	4.34	4.3389	1.00	1.00	4.3389
DSL:10-24	183672	7.98	7.9789	1.00	1.00	7.9789
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	146578	7.43	7.4315	1.00	1.00	7.4315
DSL:10-28	184609	7.98	7.9805	1.00	1.00	7.9805
DSL:12-24	148684	7.46	7.4557	1.00	1.00	7.4557
RRFPLH:16-24	91074	13.18	13.1806	1.00	1.00	13.1806
CRUDE:10-40	193624	0.19	0.1936	1.00	1.00	0.1936
TRIMSOL:12-36	154991	6.30	6.2990	1.00	1.00	6.2990
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	158636	8.00	7.9994	1.00	1.00	7.9994
BUNKC:12-40	158636	20.53	20.5320	1.00	1.00	20.5320
TRANSOIL:12-40	158636	3.40	3.4041	1.00	1.00	3.4041
MO:22-32	4714	0.24	0.2383	1.00	1.00	0.2383
MO:20-36	8413	0.34	0.3429	1.00	1.00	0.3429
MO:22-36	8413	0.38	0.3840	1.00	1.00	0.3840
HYFL:24-36	6307	0.44	0.4413	1.00	1.00	0.4413
TPHHF:24-36	6307	6.31e-10	6.3071e-10	1.00	1.00	6.3071e-10
MO:24-36	6307	0.36	0.3595	1.00	1.00	0.3595
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: 8/01/04 Reviewed By: 8/02/04

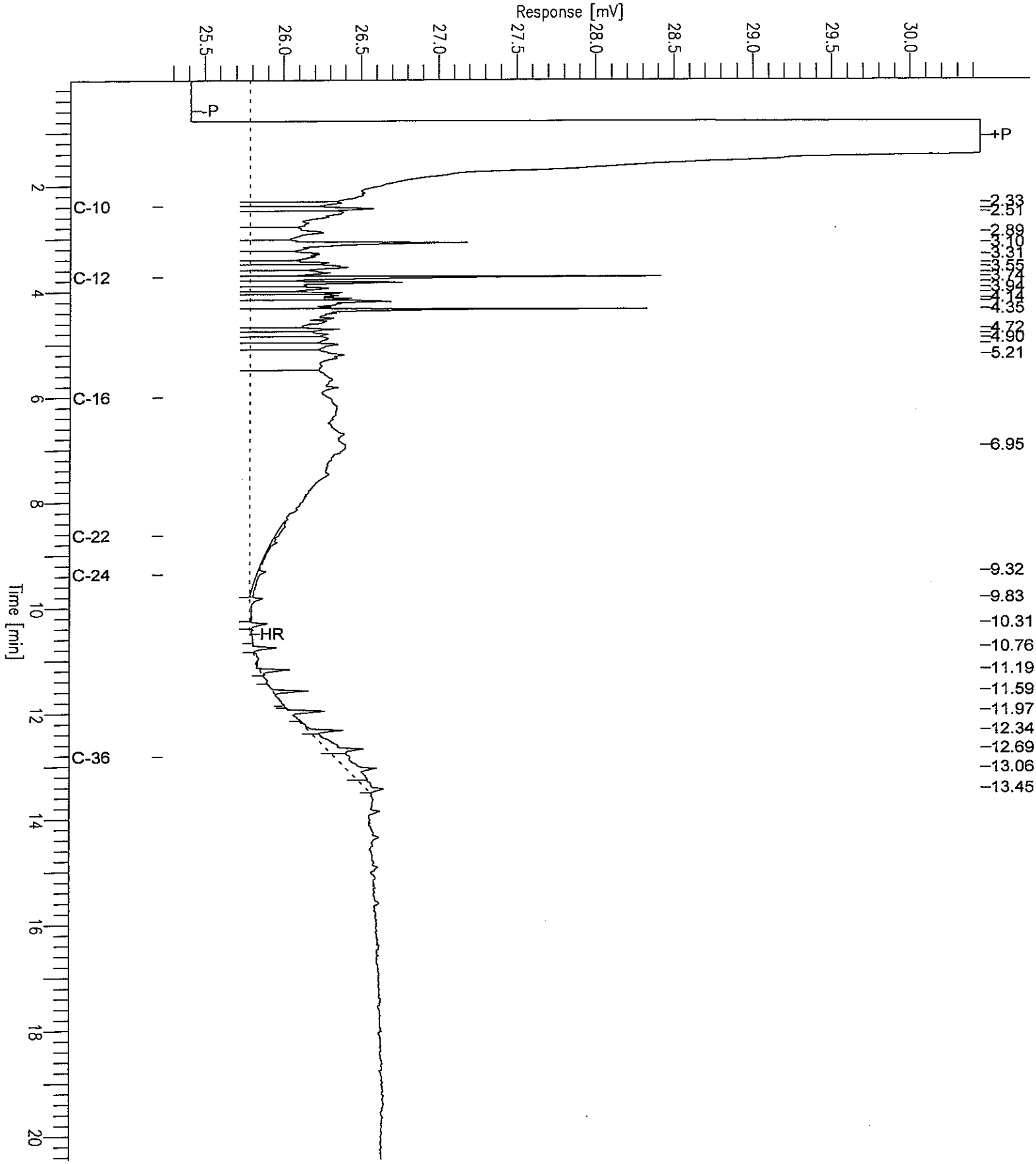
Report stored in ASCII file: G:\GC11\CHA\212A002P.TXO

Chromatogram

06

Sample Name : ical,04ws1223,dsl
FileName : G:\GC11\CHA\212A002.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L
Date : 8/1/04 03:53 PM
Time of Injection: 7/30/04 06:40 PM
Low Point : 25.23 mV High Point : 30.44 mV
Plot Scale: 5.2 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:54 PM
Sample Name : ical,04ws1222,dsl
Data File : G:\GC11\CHA\212A003.RAW Date: 7/30/04 07:09 PM
Sequence File: G:\GC11\212.SEQ Cycle: 3 Channel : A
Instrument : GC11 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	1889158	56.49	56.4927	1.00	1.00	56.4927
JP5:10-16	1889158	90.55	90.5466	1.00	1.00	90.5466
JETA:10-16	1889158	97.43	97.4345	1.00	1.00	97.4345
JP8:10-16	1889158	99.44	99.4425	1.00	1.00	99.4425
DSL:10-22	2761806	121.12	121.1245	1.00	1.00	121.1245
GAIAFP:10-24	2761806	65.24	65.2431	1.00	1.00	65.2431
DSL:10-24	2761806	119.98	119.9761	1.00	1.00	119.9761
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2306092	116.92	116.9183	1.00	1.00	116.9183
DSL:10-28	2762363	119.42	119.4156	1.00	1.00	119.4156
DSL:12-24	2306092	115.64	115.6388	1.00	1.00	115.6388
RRFPLH:16-24	872648	126.29	126.2936	1.00	1.00	126.2936
CRUDE:10-40	2767017	2.77	2.7670	1.00	1.00	2.7670
TRIMSOL:12-36	2310064	93.88	93.8841	1.00	1.00	93.8841
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	2311303	116.55	116.5495	1.00	1.00	116.5495
BUNKC:12-40	2311303	299.15	299.1476	1.00	1.00	299.1476
TRANSOIL:12-40	2311303	49.60	49.5974	1.00	1.00	49.5974
MO:22-32	1844	0.09	0.0932	1.00	1.00	0.0932
MO:20-36	133766	5.45	5.4522	1.00	1.00	5.4522
MO:22-36	3972	0.18	0.1813	1.00	1.00	0.1813
HYFL:24-36	3972	0.28	0.2779	1.00	1.00	0.2779
TPHHF:24-36	3972	3.97e-10	3.9720e-10	1.00	1.00	3.9720e-10
MO:24-36	3972	0.23	0.2264	1.00	1.00	0.2264
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: 8/01/04 Reviewed By: mmp 8/02/04

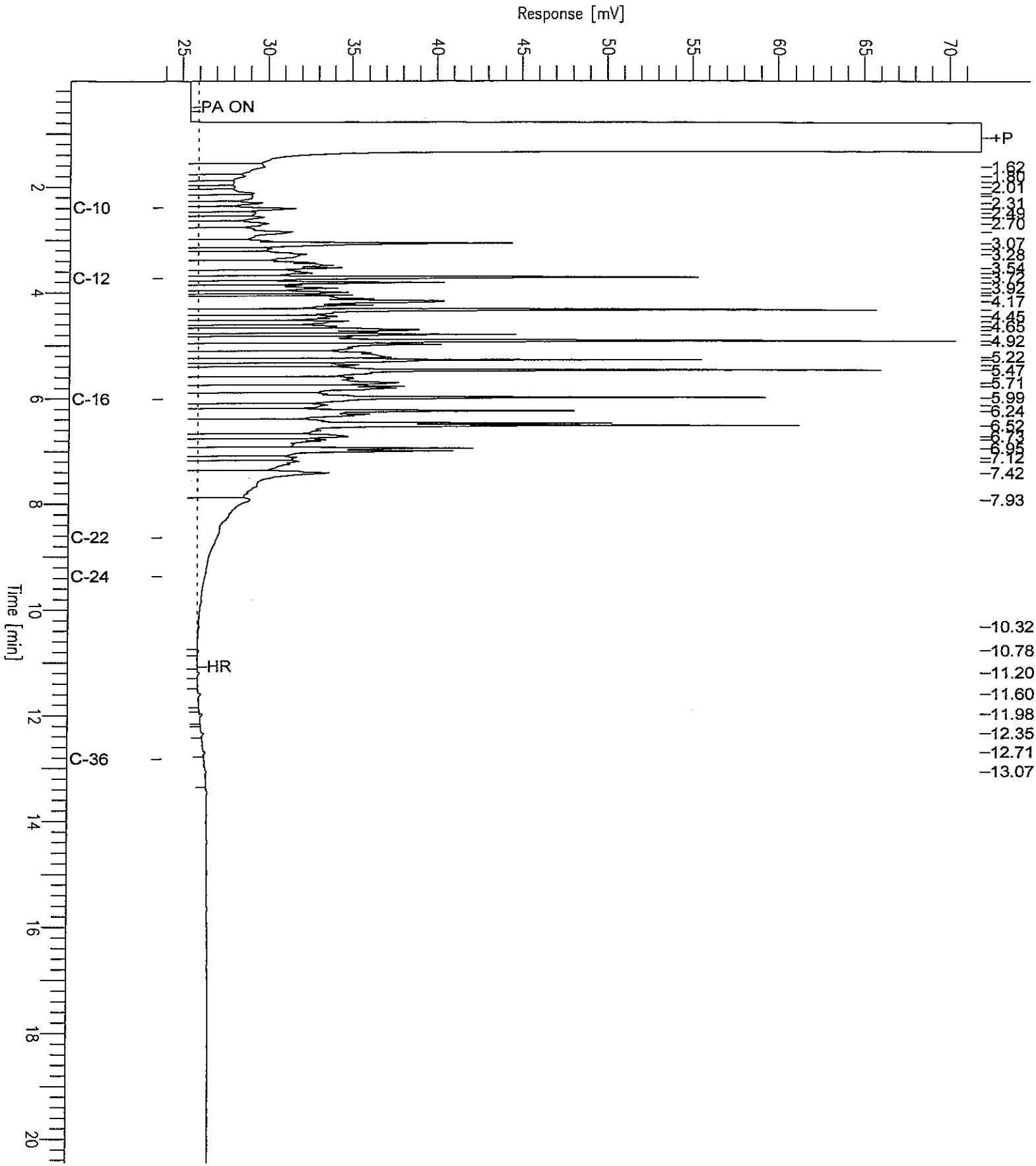
Report stored in ASCII file: G:\GC11\CHA\212A003P.TXO

Chromatogram

92

Sample Name : ical,04ws1222,dsl
FileName : G:\GC11\CHA\212A003.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 100mg/L Page 1 of 1
Date : 8/1/04 03:54 PM
Time of Injection: 7/30/04 07:09 PM
Low Point : 23.81 mV High Point : 71.86 mV
Plot Scale: 48.1 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:54 PM

86

Sample Name : ical,04ws1221,dsl
Data File : G:\GC11\CHA\212A004.RAW Date: 7/30/04 07:38 PM
Sequence File: G:\GC11\212.SEQ Cycle: 4 Channel : A
Instrument : GC11 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	4762343	142.41	142.4114	1.00	1.00	142.4114
JP5:10-16	4762343	228.26	228.2571	1.00	1.00	228.2571
JETA:10-16	4762343	245.62	245.6208	1.00	1.00	245.6208
JP8:10-16	4762343	250.68	250.6827	1.00	1.00	250.6827
DSL:10-22	6906686	302.91	302.9064	1.00	1.00	302.9064
GAIAFP:10-24	6906686	163.16	163.1590	1.00	1.00	163.1590
DSL:10-24	6906686	300.03	300.0346	1.00	1.00	300.0346
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	5790716	293.59	293.5879	1.00	1.00	293.5879
DSL:10-28	6910114	298.72	298.7208	1.00	1.00	298.7208
DSL:12-24	5790716	290.37	290.3749	1.00	1.00	290.3749
RRFPLH:16-24	2144344	310.34	310.3391	1.00	1.00	310.3391
CRUDE:10-40	6914780	6.91	6.9148	1.00	1.00	6.9148
TRIMSOL:12-36	5798008	235.64	235.6389	1.00	1.00	235.6389
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	5798811	292.41	292.4102	1.00	1.00	292.4102
BUNKC:12-40	5798811	750.53	750.5292	1.00	1.00	750.5292
TRANSOIL:12-40	5798811	124.43	124.4346	1.00	1.00	124.4346
MO:22-32	5207	0.26	0.2632	1.00	1.00	0.2632
MO:20-36	242365	9.88	9.8787	1.00	1.00	9.8787
MO:22-36	7291	0.33	0.3328	1.00	1.00	0.3328
HYFL:24-36	7291	0.51	0.5102	1.00	1.00	0.5102
TPHHF:24-36	7291	7.29e-10	7.2911e-10	1.00	1.00	7.2911e-10
MO:24-36	7291	0.42	0.4156	1.00	1.00	0.4156
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

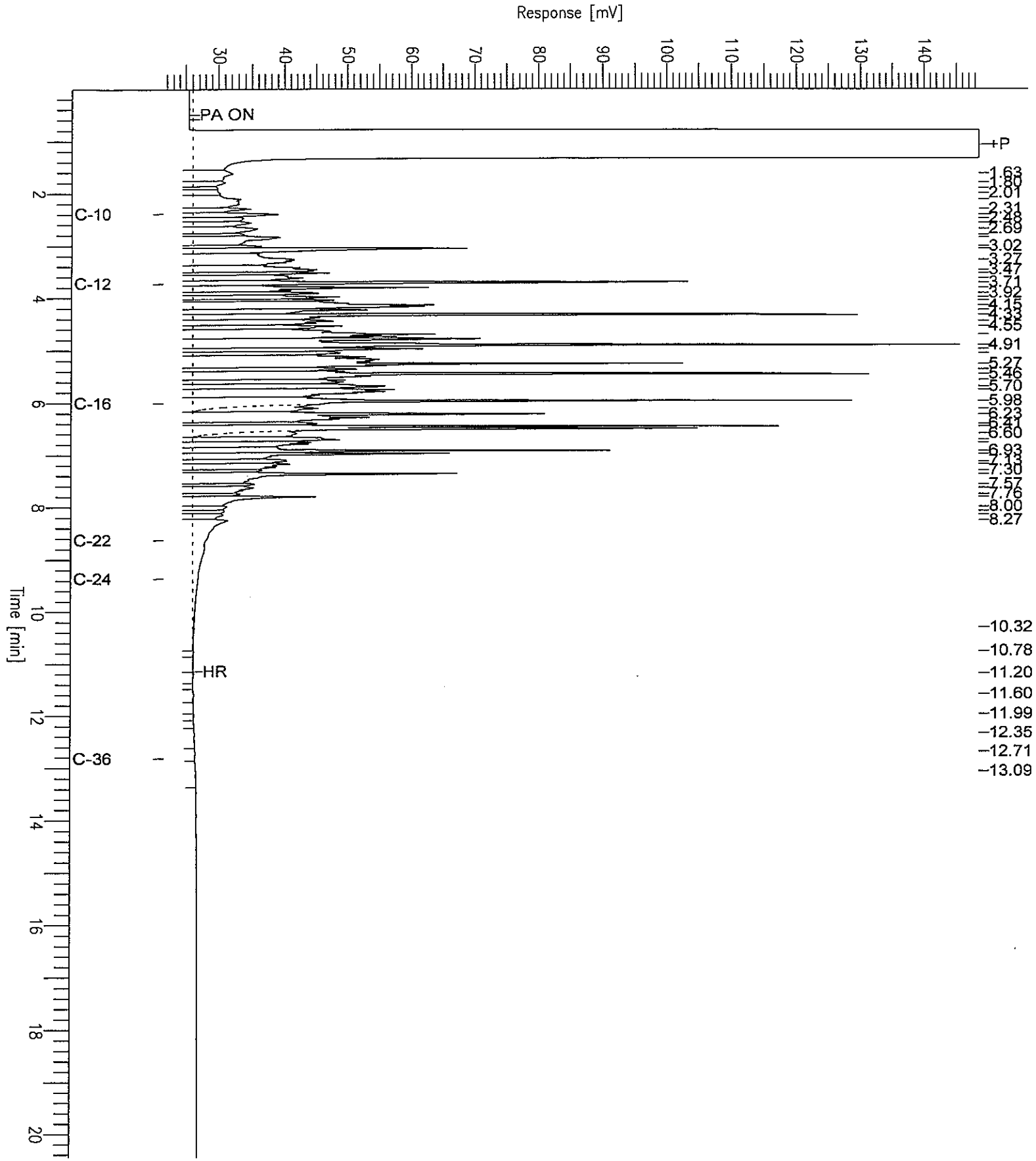
Analyzed By: S.V. 8/01/04 Reviewed By: mmp 8/2/04

Report stored in ASCII file: G:\GC11\CHA\212A004P.TXO

Chromatogram

Sample Name : ical,04wsl221,dsl
FileName : G:\GC11\CHA\212A004.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 21 mV

Sample #: 250mg/L Page 1 of 1
Date : 8/1/04 03:54 PM
Time of Injection: 7/30/04 07:38 PM
Low Point : 21.31 mV High Point : 148.56 mV
Plot Scale: 127.2 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:55 PM
Sample Name : ical,04ws1220,dsl
Data File : G:\GC11\CHA\212A005.RAW Date: 7/30/04 08:06 PM
Sequence File: G:\GC11\212.SEQ Cycle: 5 Channel : A
Instrument : GC11 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

96

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	9513474	284.49	284.4875	1.00	1.00	284.4875
JP5:10-16	9513474	455.98	455.9769	1.00	1.00	455.9769
JETA:10-16	9513474	490.66	490.6635	1.00	1.00	490.6635
JP8:10-16	9513474	500.78	500.7752	1.00	1.00	500.7752
DSL:10-22	13657124	598.96	598.9603	1.00	1.00	598.9603
GAIAFP:10-24	13809162	326.22	326.2185	1.00	1.00	326.2185
DSL:10-24	13809162	599.89	599.8864	1.00	1.00	599.8864
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	11442182	580.12	580.1159	1.00	1.00	580.1159
DSL:10-28	13829824	597.86	597.8564	1.00	1.00	597.8564
DSL:12-24	11594220	581.39	581.3911	1.00	1.00	581.3911
RRFPLH:16-24	4295688	621.69	621.6914	1.00	1.00	621.6914
CRUDE:10-40	13843543	13.84	13.8435	1.00	1.00	13.8435
TRIMSOL:12-36	11623017	472.38	472.3751	1.00	1.00	472.3751
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	11628601	586.38	586.3826	1.00	1.00	586.3826
BUNKC:12-40	11628601	1505.07	1505.0680	1.00	1.00	1505.0680
TRANSOIL:12-40	11628601	249.53	249.5340	1.00	1.00	249.5340
MO:22-32	177053	8.95	8.9498	1.00	1.00	8.9498
MO:20-36	542199	22.10	22.0998	1.00	1.00	22.0998
MO:22-36	180836	8.26	8.2551	1.00	1.00	8.2551
HYFL:24-36	28797	2.02	2.0150	1.00	1.00	2.0150
TPHHF:24-36	28797	2.88e-09	2.8797e-09	1.00	1.00	2.8797e-09
MO:24-36	28797	1.64	1.6416	1.00	1.00	1.6416
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

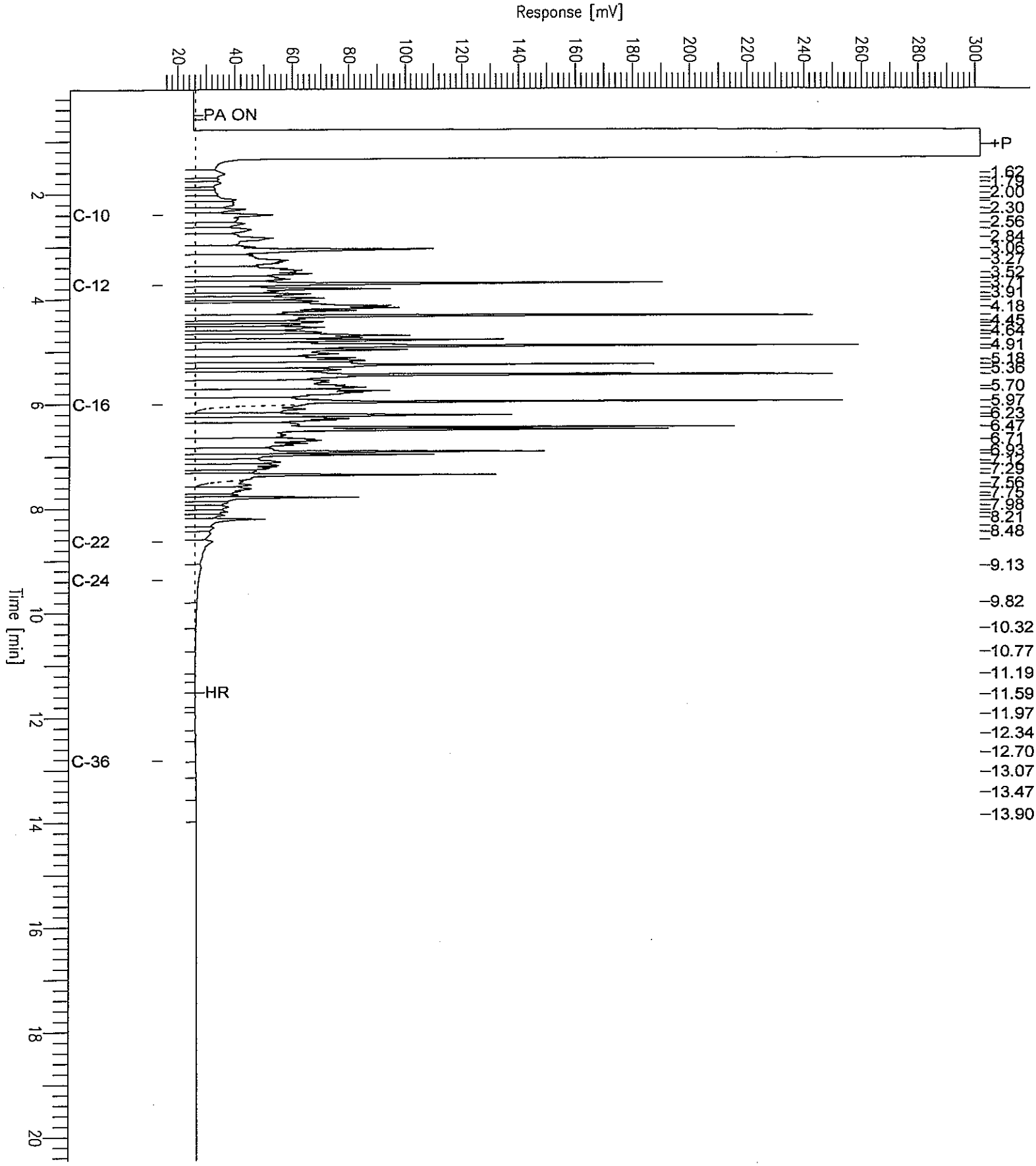
Analyzed By: GV, 8/01/04 Reviewed By: mmp 8/02/04

Report stored in ASCII file: G:\GC11\CHA\212A005P.TX0

Chromatogram

Sample Name : ical,04ws1220,dsl
FileName : G:\GC11\CHA\212A005.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #: 500mg/L Page 1 of 1
Date : 8/1/04 03:55 PM
Time of Injection: 7/30/04 08:06 PM
Low Point : 14.49 mV High Point : 301.80 mV
Plot Scale: 287.3 mV



Software Version: 4.1<2F12>

Date: 8/1/04 03:55 PM
Sample Name : ical,04ws1219,dsl
Data File : G:\GC11\CHA\212A006.RAW Date: 7/30/04 08:35 PM
Sequence File: G:\GC11\212.SEQ Cycle: 6 Channel : A
Instrument : GC11 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	19541953	584.38	584.3755	1.00	1.00	584.3755
JP5:10-16	19541953	936.64	936.6377	1.00	1.00	936.6377
JETA:10-16	19541953	1007.89	1007.8887	1.00	1.00	1007.8887
JP8:10-16	19541953	1028.66	1028.6596	1.00	1.00	1028.6596
DSL:10-22	28203952	1236.94	1236.9403	1.00	1.00	1236.9403
GAIAFP:10-24	28390399	670.68	670.6759	1.00	1.00	670.6759
DSL:10-24	28390399	1233.31	1233.3125	1.00	1.00	1233.3125
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	23687620	1200.96	1200.9567	1.00	1.00	1200.9567
DSL:10-28	28478419	1231.11	1231.1079	1.00	1.00	1231.1079
DSL:12-24	23874068	1197.16	1197.1629	1.00	1.00	1197.1629
RRFPLH:16-24	8848446	1280.59	1280.5871	1.00	1.00	1280.5871
CRUDE:10-40	28489509	28.49	28.4895	1.00	1.00	28.4895
TRIMSOL:12-36	23972826	974.29	974.2880	1.00	1.00	974.2880
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	23973177	1208.87	1208.8690	1.00	1.00	1208.8690
BUNKC:12-40	23973177	3102.80	3102.8034	1.00	1.00	3102.8034
TRANSOIL:12-40	23973177	514.43	514.4319	1.00	1.00	514.4319
MO:22-32	283645	14.34	14.3378	1.00	1.00	14.3378
MO:20-36	1062189	43.29	43.2944	1.00	1.00	43.2944
MO:22-36	285206	13.02	13.0196	1.00	1.00	13.0196
HYFL:24-36	98758	6.91	6.9104	1.00	1.00	6.9104
TPHHF:24-36	98758	9.88e-09	9.8758e-09	1.00	1.00	9.8758e-09
MO:24-36	98758	5.63	5.6298	1.00	1.00	5.6298
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: GV. 8/01/04 Reviewed By: MMP 8/2/04

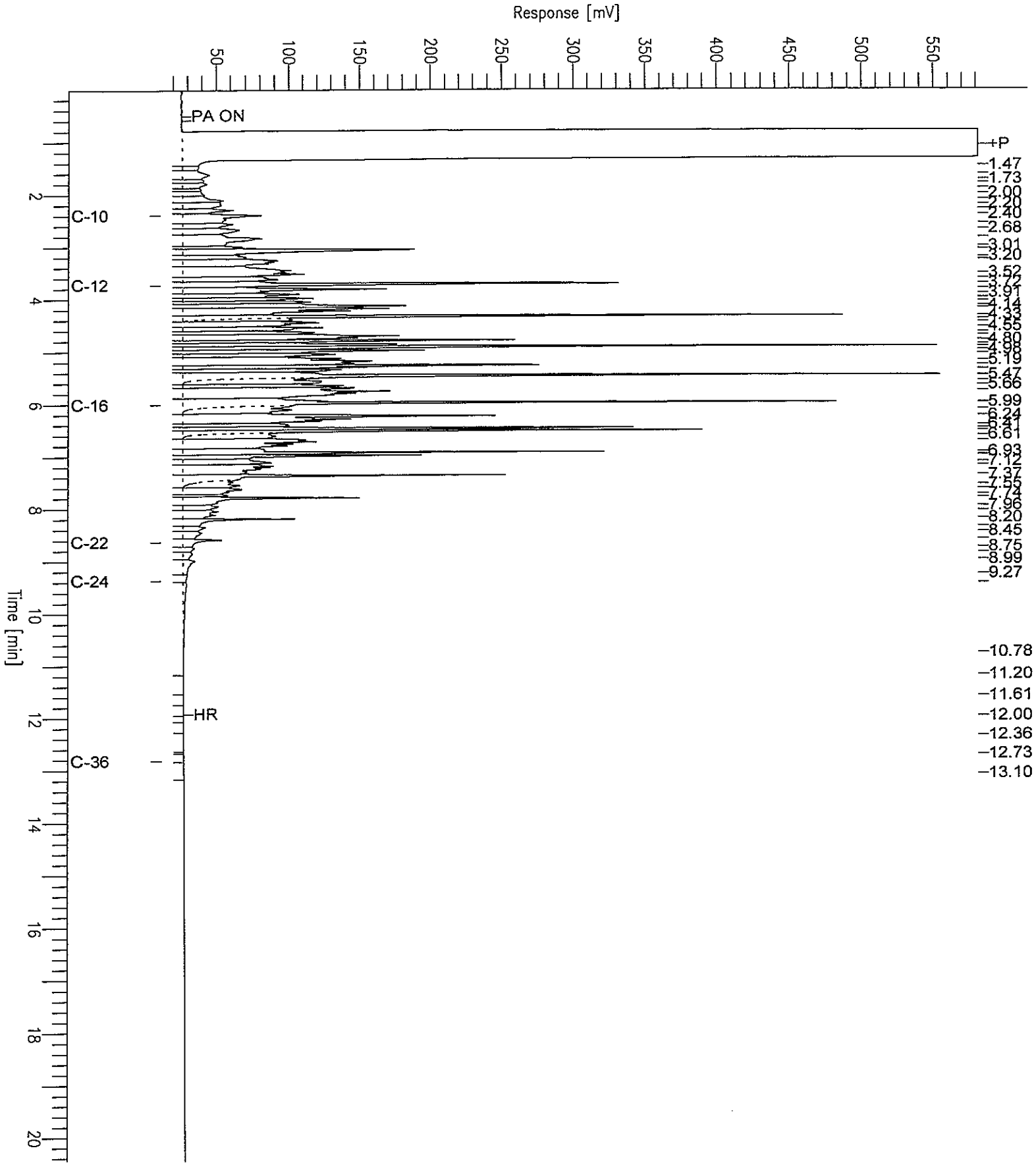
Report stored in ASCII file: G:\GC11\CHA\212A006P.TX0

Chromatogram

86

Sample Name : ical,04ws1219,dsl
FileName : G:\GC11\CHA\212A006.RAW
Method : ATEH211S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 1000mg/L Page 1 of 1
Date : 8/1/04 03:55 PM
Time of Injection: 7/30/04 08:35 PM
Low Point : 10.75 mV High Point : 581.61 mV
Plot Scale: 570.9 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:56 PM

Sample Name : ical,04ws1218,dsl
Data File : G:\GC11\CHA\212A007.RAW Date: 7/30/04 09:04 PM
Sequence File: G:\GC11\212.SEQ Cycle: 7 Channel : A
Instrument : GC11 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	48460801	1449.15	1449.1542	1.00	1.00	1449.1542
JP5:10-16	48460801	2322.71	2322.7061	1.00	1.00	2322.7061
JETA:10-16	48460801	2499.40	2499.3966	1.00	1.00	2499.3966
JP8:10-16	48460801	2550.91	2550.9052	1.00	1.00	2550.9052
DSL:10-22	69044217	3028.07	3028.0712	1.00	1.00	3028.0712
GAIAFP:10-24	69617172	1644.59	1644.5898	1.00	1.00	1644.5898
DSL:10-24	69617172	3024.25	3024.2524	1.00	1.00	3024.2524
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	59823557	3033.04	3033.0400	1.00	1.00	3033.0400
DSL:10-28	69728617	3014.33	3014.3334	1.00	1.00	3014.3334
DSL:12-24	60396513	3028.58	3028.5775	1.00	1.00	3028.5775
RRFPLH:16-24	21156371	3061.85	3061.8457	1.00	1.00	3061.8457
CRUDE:10-40	69752491	69.75	69.7525	1.00	1.00	69.7525
TRIMSOL:12-36	60530571	2460.04	2460.0442	1.00	1.00	2460.0442
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	60531831	3052.37	3052.3720	1.00	1.00	3052.3720
BUNKC:12-40	60531831	7834.52	7834.5215	1.00	1.00	7834.5215
TRANSOIL:12-40	60531831	1298.93	1298.9312	1.00	1.00	1298.9312
MO:22-32	704925	35.63	35.6328	1.00	1.00	35.6328
MO:20-36	2778871	113.27	113.2657	1.00	1.00	113.2657
MO:22-36	707014	32.28	32.2750	1.00	1.00	32.2750
HYFL:24-36	134058	9.38	9.3804	1.00	1.00	9.3804
TPHHF:24-36	134058	1.34e-08	1.3406e-08	1.00	1.00	1.3406e-08
MO:24-36	134058	7.64	7.6421	1.00	1.00	7.6421
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: SV. 8/01/04 Reviewed By: [illegible]

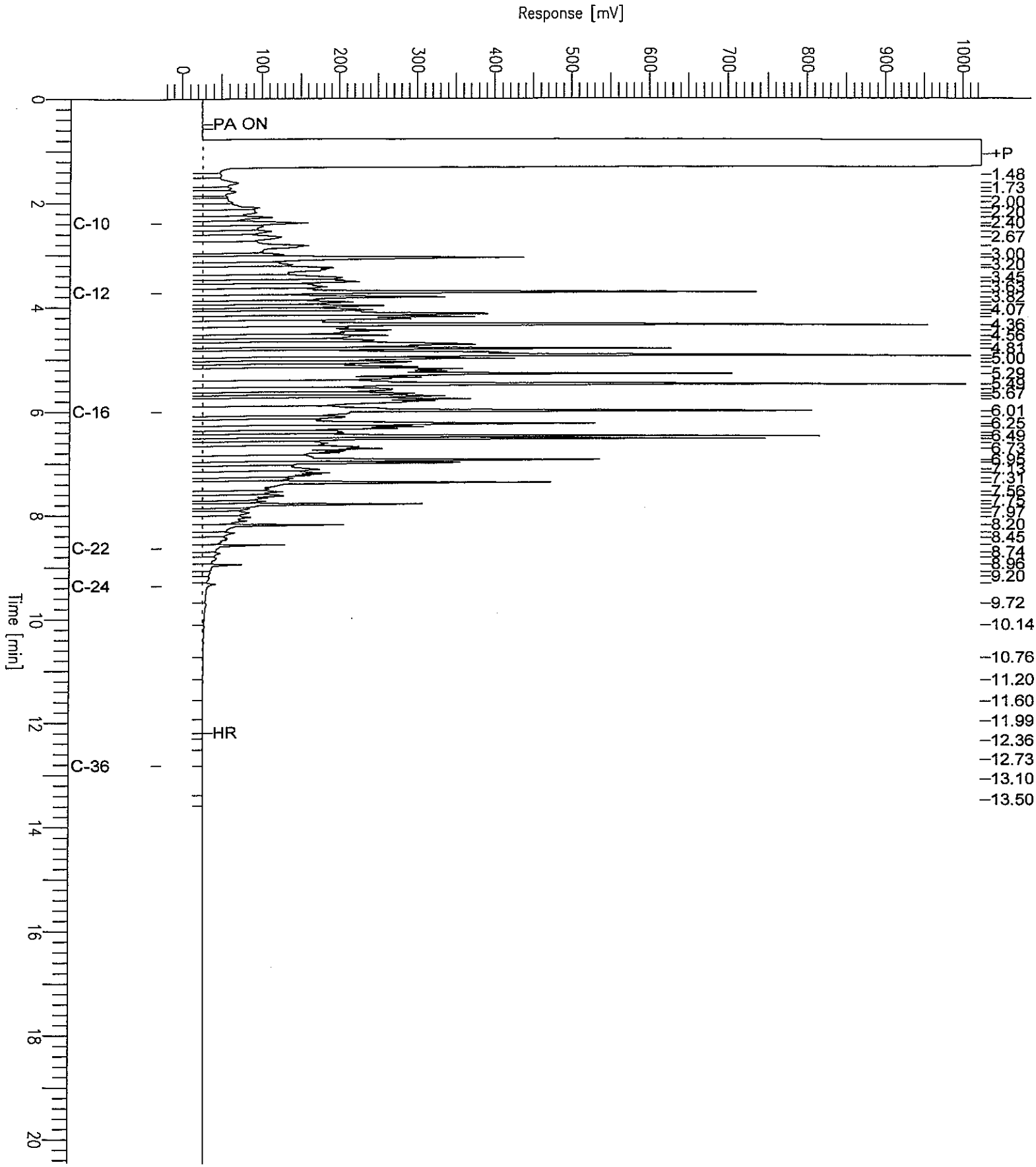
Report stored in ASCII file: G:\GC11\CHA\212A007P.TXO

Chromatogram

001

Sample Name : ical,04ws1218,dsl
FileName : G:\GC11\CHA\212A007.RAW
Method : ATEH211S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 2500mg/L
Date : 8/1/04 03:56 PM
Time of Injection: 7/30/04 09:04 PM
Low Point : -27.09 mV High Point : 1024.00 mV
Plot Scale: 1051.1 mV



Software Version: 4.1<2F12>
Date: 8/1/04 03:56 PM
Sample Name : ical,04ws1217,dsl
Data File : G:\GC11\CHA\212A008.RAW Date: 7/30/04 09:34 PM
Sequence File: G:\GC11\212.SEQ Cycle: 8 Channel : A
Instrument : GC11 Rack/Vial: 0/8 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	86617196	2590.17	2590.1692	1.00	1.00	2590.1692
JP5:10-16	86617196	4151.53	4151.5264	1.00	1.00	4151.5264
JETA:10-16	86617196	4467.34	4467.3369	1.00	1.00	4467.3369
JP8:10-16	86617196	4559.40	4559.4016	1.00	1.00	4559.4016
DSL:10-22	132764529	5822.65	5822.6520	1.00	1.00	5822.6520
GAIAFP:10-24	133813558	3161.12	3161.1224	1.00	1.00	3161.1224
DSL:10-24	133813558	5813.02	5813.0194	1.00	1.00	5813.0194
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	114510901	5805.68	5805.6752	1.00	1.00	5805.6752
DSL:10-28	134168273	5800.03	5800.0278	1.00	1.00	5800.0278
DSL:12-24	115559929	5794.74	5794.7419	1.00	1.00	5794.7419
RRFPLH:16-24	47196362	6830.47	6830.4708	1.00	1.00	6830.4708
CRUDE:10-40	134206311	134.21	134.2063	1.00	1.00	134.2063
TRIMSOL:12-36	115952327	4712.46	4712.4593	1.00	1.00	4712.4593
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	115952683	5847.02	5847.0183	1.00	1.00	5847.0183
BUNKC:12-40	115952683	15007.54	15007.5384	1.00	1.00	15007.5384
TRANSOIL:12-40	115952683	2488.19	2488.1876	1.00	1.00	2488.1876
MO:22-32	1439326	72.76	72.7555	1.00	1.00	72.7555
MO:20-36	5223569	212.91	212.9107	1.00	1.00	212.9107
MO:22-36	1441426	65.80	65.8008	1.00	1.00	65.8008
HYFL:24-36	392398	27.46	27.4572	1.00	1.00	27.4572
TPHHF:24-36	392398	3.92e-08	3.9240e-08	1.00	1.00	3.9240e-08
MO:24-36	392398	22.37	22.3689	1.00	1.00	22.3689
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: SV. 8/01/04 Reviewed By: mmp 8/2/04

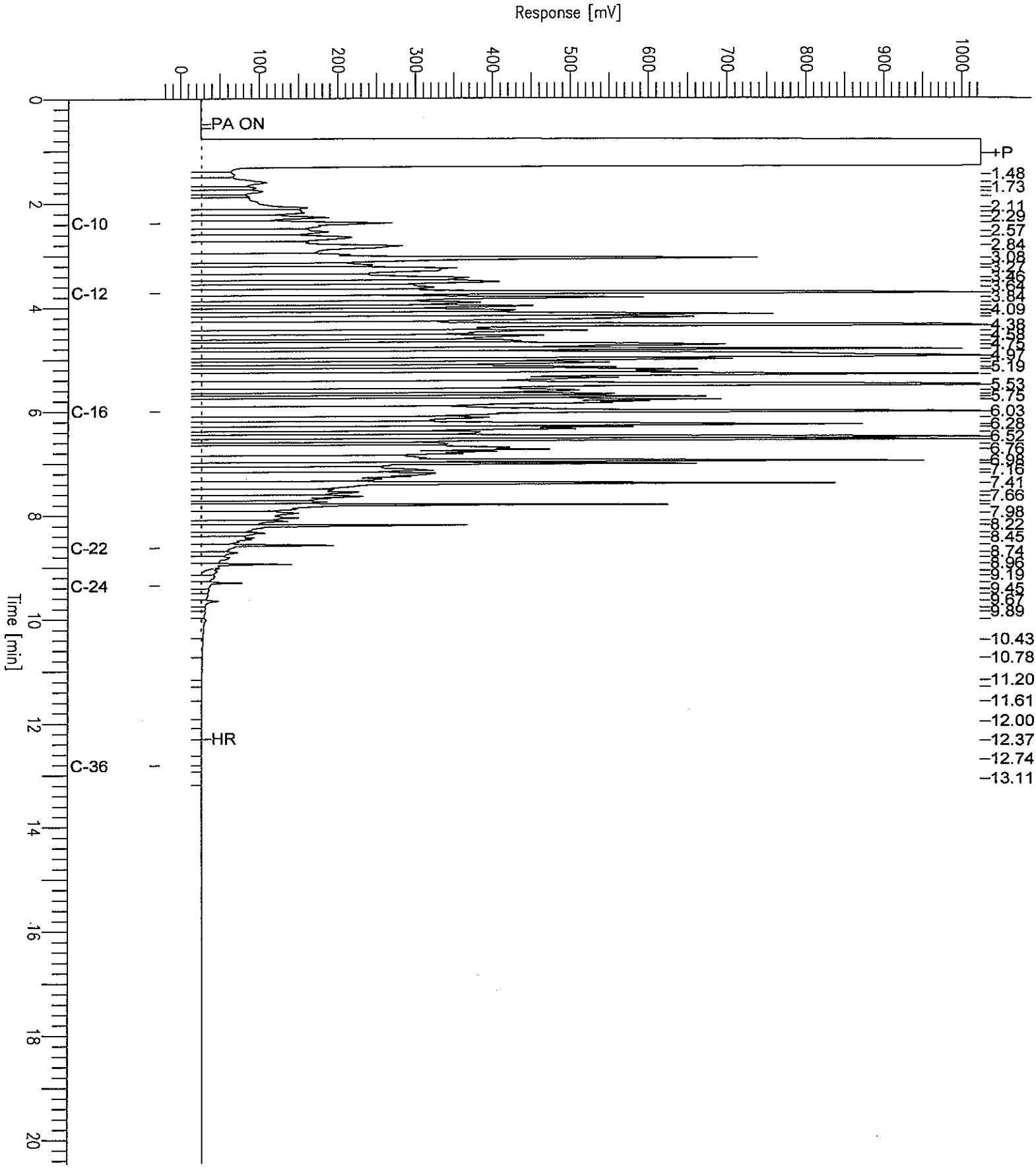
Report stored in ASCII file: G:\GC11\CHA\212A008P.TX0

Chromatogram

102

Sample Name : ical,04ws1217,dsl
FileName : G:\GC11\CHA\212A008.RAW
Method : ATEH211S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 5000mg/L Page 1 of 1
Date : 8/1/04 03:56 PM
Time of Injection: 7/30/04 09:34 PM
Low Point : -27.11 mV High Point : 1024.00 mV
Plot Scale: 1051.1 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC11A Run Name : dsl
Seqnum : 114306371010 Filename : 212a010 Injected : 30-JUL-2004 22:32
Caltype :

Standards: 04WS0983

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Flags
Diesel C10-C22	114306371001	30-JUL-2004	500.0000	482.0125	mg/L	-4	
Diesel C10-C24	114306371001	30-JUL-2004	500.0000	482.5697	mg/L	-3	
Diesel C10-C28	114306371001	30-JUL-2004	500.0000	483.1695	mg/L	-3	
Diesel C12-C22	114306371001	30-JUL-2004	500.0000	479.0919	mg/L	-4	
Diesel C12-C24	114306371001	30-JUL-2004	500.0000	479.7737	mg/L	-4	
Diesel C12-C36	114306371001	30-JUL-2004	500.0000	478.7795	mg/L	-4	
Hexacosane	114301759001	27-JUL-2004	50.00000	52.56334	mg/L	5	

12700565 / 26318.61144 = 482.56973

Sr. 8/14/04

/mmp 8/02/04

Software Version: 4.1<2F12>
Date: 8/1/04 04:00 PM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC11\CHA\212A010.RAW Date: 7/30/04 10:32 PM
Sequence File: G:\GC11\212.SEQ Cycle: 10 Channel : A
Instrument : GC11 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

104

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	8717566	260.69	260.6869	1.00	1.00	260.6869
JP5:10-16	8717566	417.83	417.8293	1.00	1.00	417.8293
JETA:10-16	8717566	449.61	449.6140	1.00	1.00	449.6140
JP8:10-16	8717566	458.88	458.8798	1.00	1.00	458.8798
DSL:10-22	12607395	482.01	482.0124	1.00	1.00	482.0124
GAIAFP:10-24	12700565	300.03	300.0297	1.00	1.00	300.0297
DSL:10-24	12700565	482.57	482.5697	1.00	1.00	482.5697
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10559539	479.09	479.0917	1.00	1.00	479.0917
DSL:10-28	14206601	538.75	538.7465	1.00	1.00	538.7465
DSL:12-24	10652710	479.77	479.7737	1.00	1.00	479.7737
RRFPLH:16-24	3982999	576.44	576.4377	1.00	1.00	576.4377
CRUDE:10-40	14212005	14.21	14.2120	1.00	1.00	14.2120
TRIMSOL:12-36	12163761	494.35	494.3517	1.00	1.00	494.3517
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	12164149	613.39	613.3882	1.00	1.00	613.3882
BUNKC:12-40	12164149	1574.38	1574.3830	1.00	1.00	1574.3830
TRANSOIL:12-40	12164149	261.03	261.0262	1.00	1.00	261.0262
MO:22-32	1603087	81.03	81.0334	1.00	1.00	81.0334
MO:20-36	1996681	81.38	81.3840	1.00	1.00	81.3840
MO:22-36	1604222	73.23	73.2324	1.00	1.00	73.2324
HYFL:24-36	1511051	105.73	105.7325	1.00	1.00	105.7325
TPHHF:24-36	1511051	1.51e-07	1.5111e-07	1.00	1.00	1.5111e-07
MO:24-36	1511051	86.14	86.1385	1.00	1.00	86.1385
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: G. V. 8/01/04 Reviewed By: mmp 8/02/04

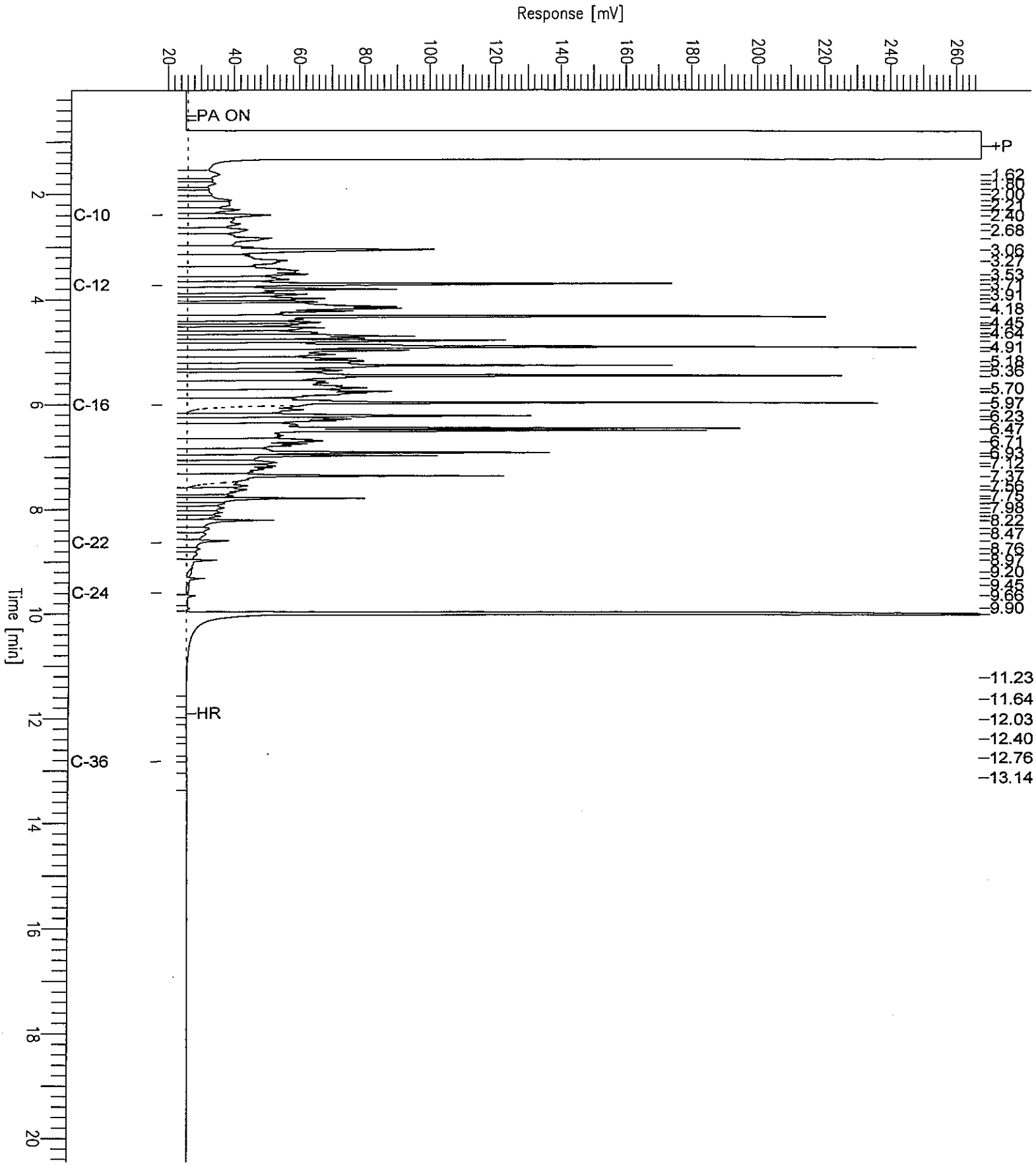
Report stored in ASCII file: G:\GC11\CHA\212A010P.TX0

Chromatogram

105

Sample Name : icv,04ws0983,dsl
FileName : G:\GC11\CHA\212A010.RAW
Method : ATEH214S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 500mg/L
Date : 8/1/04 04:00 PM
Time of Injection: 7/30/04 10:32 PM
Low Point : 18.26 mV High Point : 267.86 mV
Plot Scale: 249.6 mV



Software Version: 4.1<2F12>
Date: 7/30/04 10:53 PM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC11\CHA\212A010.RAW Date: 7/30/04 10:32 PM
Sequence File: G:\GC11\212.SEQ Cycle: 10 Channel : A
Instrument : GC11 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

106

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1465548	52.56	52.5633			10.012	105.1267

CURTIS & TOMPKINS,LTD. BERKELEY

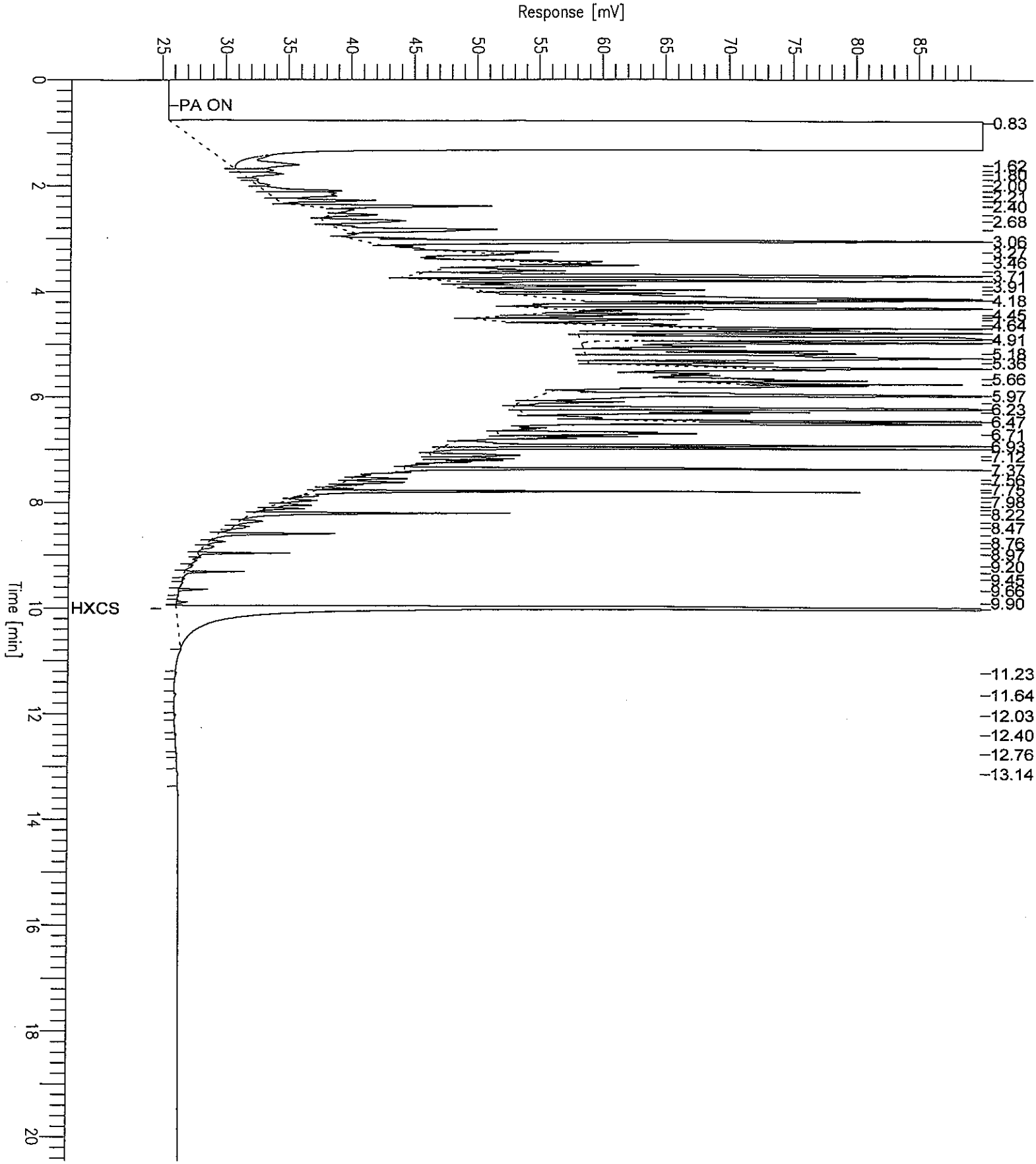
Analyzed By: G V. 8/21/04 Reviewed By: mmr 8/21/04

Report stored in ASCII file: G:\GC11\CHA\212A010.TX0

Chromatogram

Sample Name : icv,04ws0983,dsl
FileName : G:\GC11\CHA\212A010.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L Page 1 of 1
Date : 7/30/04 10:53 PM
Time of Injection: 7/30/04 10:32 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: mm 9/27/04
Calnum: 114345124001 Name: Hexacosane Type: (normal) Date: 26-AUG-2004 16:33 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	239a002	114345124002	hex5	26-AUG-2004 16:33	04WS0533
2	239a003	114345124003	hex10	26-AUG-2004 17:01	04WS0534
3	239a004	114345124004	hex25	26-AUG-2004 17:31	04WS0535
4	239a005	114345124005	hex50	26-AUG-2004 18:00	04WS0536
5	239a006	114345124006	hex75	26-AUG-2004 18:29	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	27977	28767	30205	30063	33677	AVRG R		3.318E-5		mg/L	30138	7	0.995	20	

108

mmp 8/26/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 8/26/04 04:53 PM
Sample Name : ical,04ws0533,hex5
Data File : G:\GC11\CHA\239A002.RAW Date: 8/26/04 04:33 PM
Sequence File: G:\GC11\239.SEQ Cycle: 2 Channel : A
Instrument : GC11 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	139884	5.02	5.0171			9.831	10.0342

CURTIS & TOMPKINS,LTD. BERKELEY

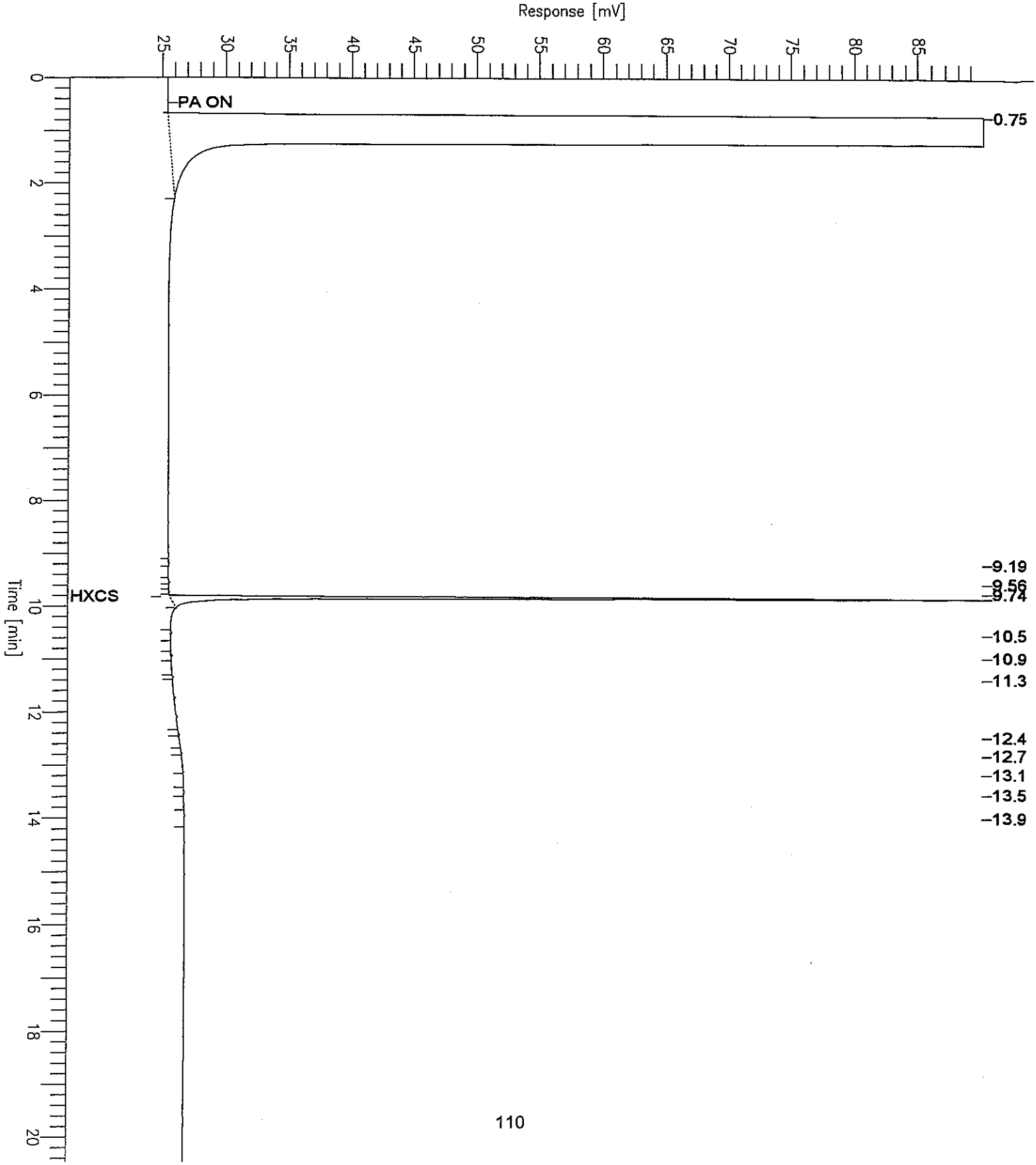
Analyzed By: MMP 8/26/04 Reviewed By: MCM 8/27/04

Report stored in ASCII file: G:\GC11\CHA\239A002.TXO

Chromatogram

Sample Name : ical,04ws0533,hex5
FileName : G:\GC11\CHA\239A002.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 5mg/L
Date : 8/26/04 04:53 PM
Time of Injection: 8/26/04 04:33 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/26/04 05:22 PM
Sample Name : ical,04ws0534,hex10
Data File : G:\GC11\CHA\239A003.RAW Date: 8/26/04 05:01 PM
Sequence File: G:\GC11\239.SEQ Cycle: 3 Channel : A
Instrument : GC11 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	287672	10.32	10.3177		9.828	20.6353

CURTIS & TOMPKINS,LTD. BERKELEY

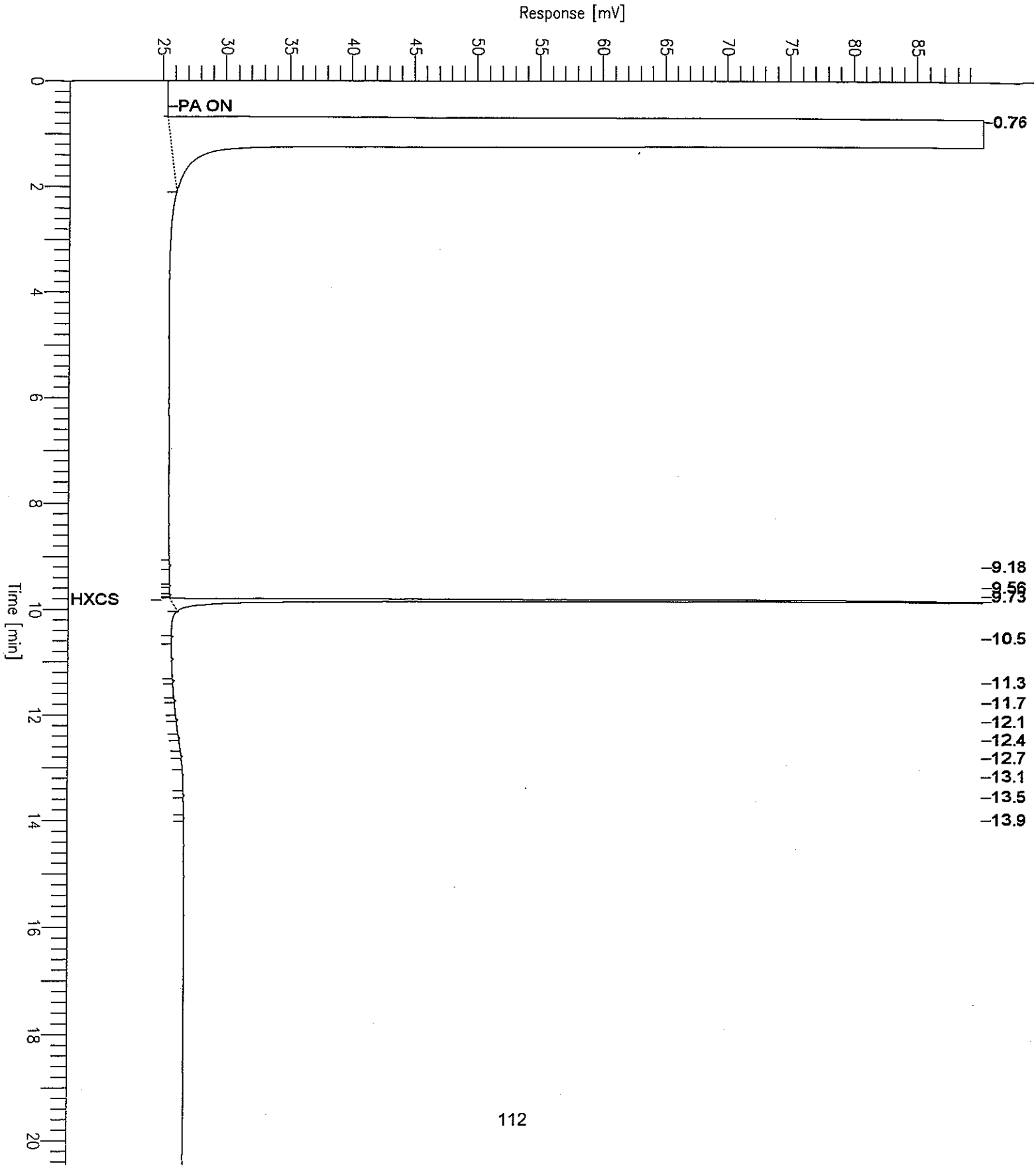
Analyzed By: mmp 8/26/04 Reviewed By: [illegible] 8/27/04

Report stored in ASCII file: G:\GC11\CHA\239A003.TX0

Chromatogram

Sample Name : ical,04ws0534,hex10
FileName : G:\GC11\CHA\239A003.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L
Date : 8/26/04 05:22 PM
Time of Injection: 8/26/04 05:01 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/26/04 05:51 PM
Sample Name : ical,04ws0535,hex25
Data File : G:\GC11\CHA\239A004.RAW Date: 8/26/04 05:31 PM
Sequence File: G:\GC11\239.SEQ Cycle: 4 Channel : A
Instrument : GC11 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	755127	27.08	27.0834		9.838	54.1667

CURTIS & TOMPKINS,LTD. BERKELEY

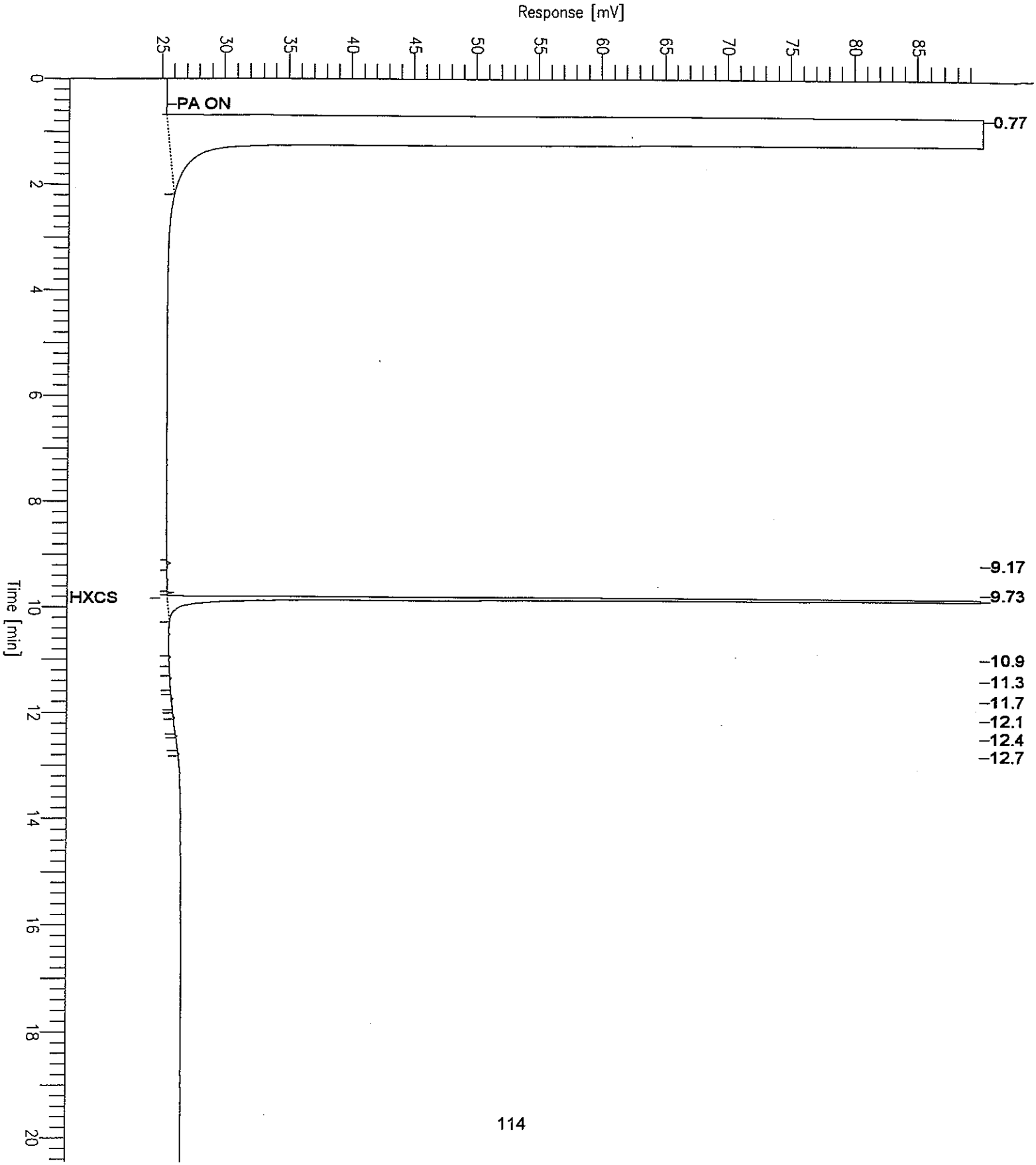
Analyzed By: MMD 8/26/04 Reviewed By: mcs 8/27/04

Report stored in ASCII file: G:\GC11\CHA\239A004.TXO

Chromatogram

Sample Name : ical,04ws0535,hex25
FileName : G:\GC11\CHA\239A004.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 25mg/L
Date : 8/26/04 05:51 PM
Time of Injection: 8/26/04 05:31 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/26/04 06:21 PM
Sample Name : ical,04ws0536,hex50
Data File : G:\GC11\CHA\239A005.RAW Date: 8/26/04 06:00 PM
Sequence File: G:\GC11\239.SEQ Cycle: 5 Channel : A
Instrument : GC11 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1503152	53.91	53.9120			9.851	107.8241

CURTIS & TOMPKINS,LTD. BERKELEY

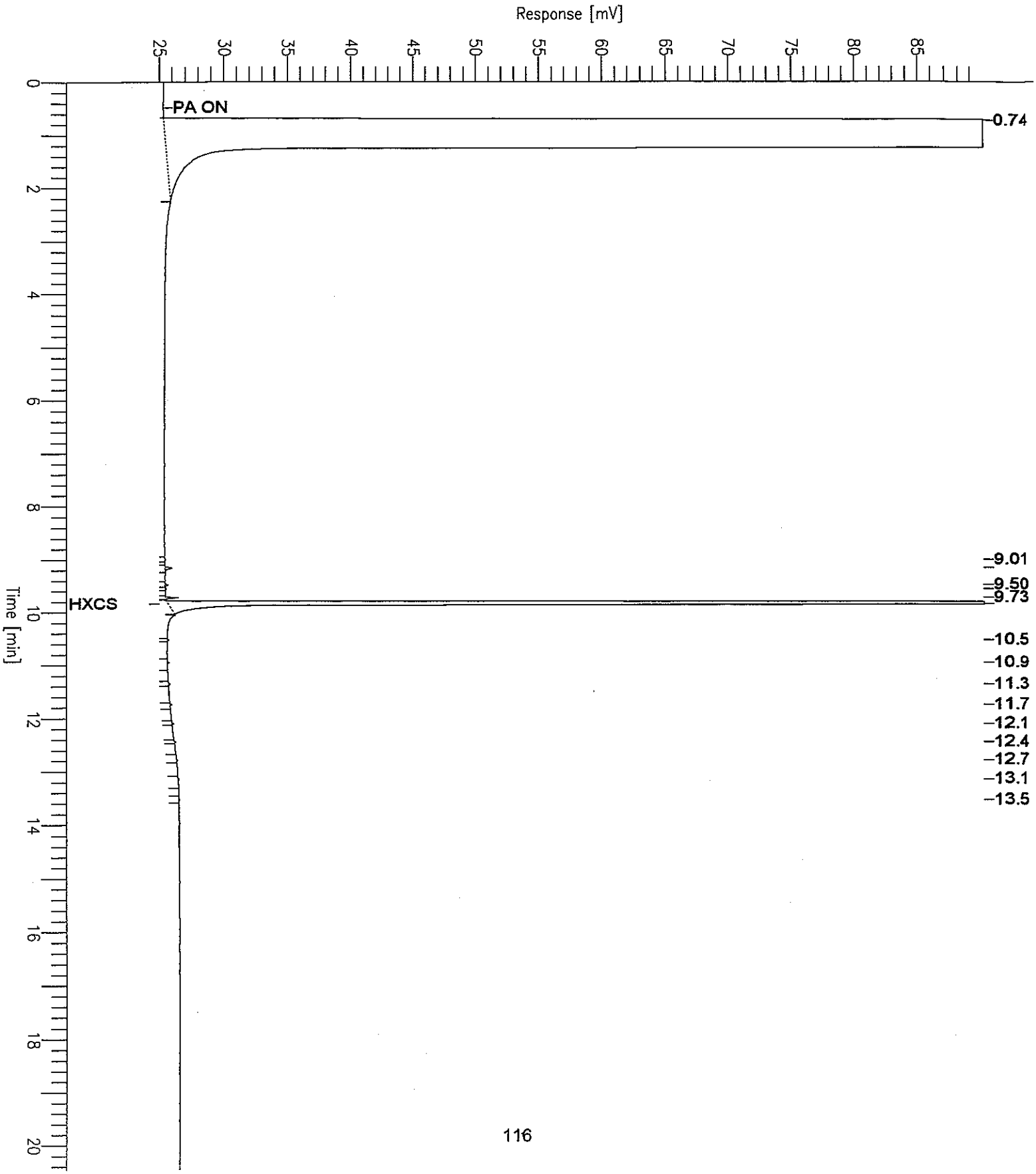
Analyzed By: mmm 8/26/04 Reviewed By: mm 8/27/04

Report stored in ASCII file: G:\GC11\CHA\239A005.TX0

Chromatogram

Sample Name : ical,04ws0536,hex50
FileName : G:\GC11\CHA\239A005.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L
Date : 8/26/04 06:21 PM
Time of Injection: 8/26/04 06:00 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 8/26/04 06:50 PM
Sample Name : ical,04ws0537,hex75
Data File : G:\GC11\CHA\239A006.RAW Date: 8/26/04 06:29 PM
Sequence File: G:\GC11\239.SEQ Cycle: 6 Channel : A
Instrument : GC11 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	2525802	90.59	90.5904		9.864	181.1808

CURTIS & TOMPKINS,LTD. BERKELEY

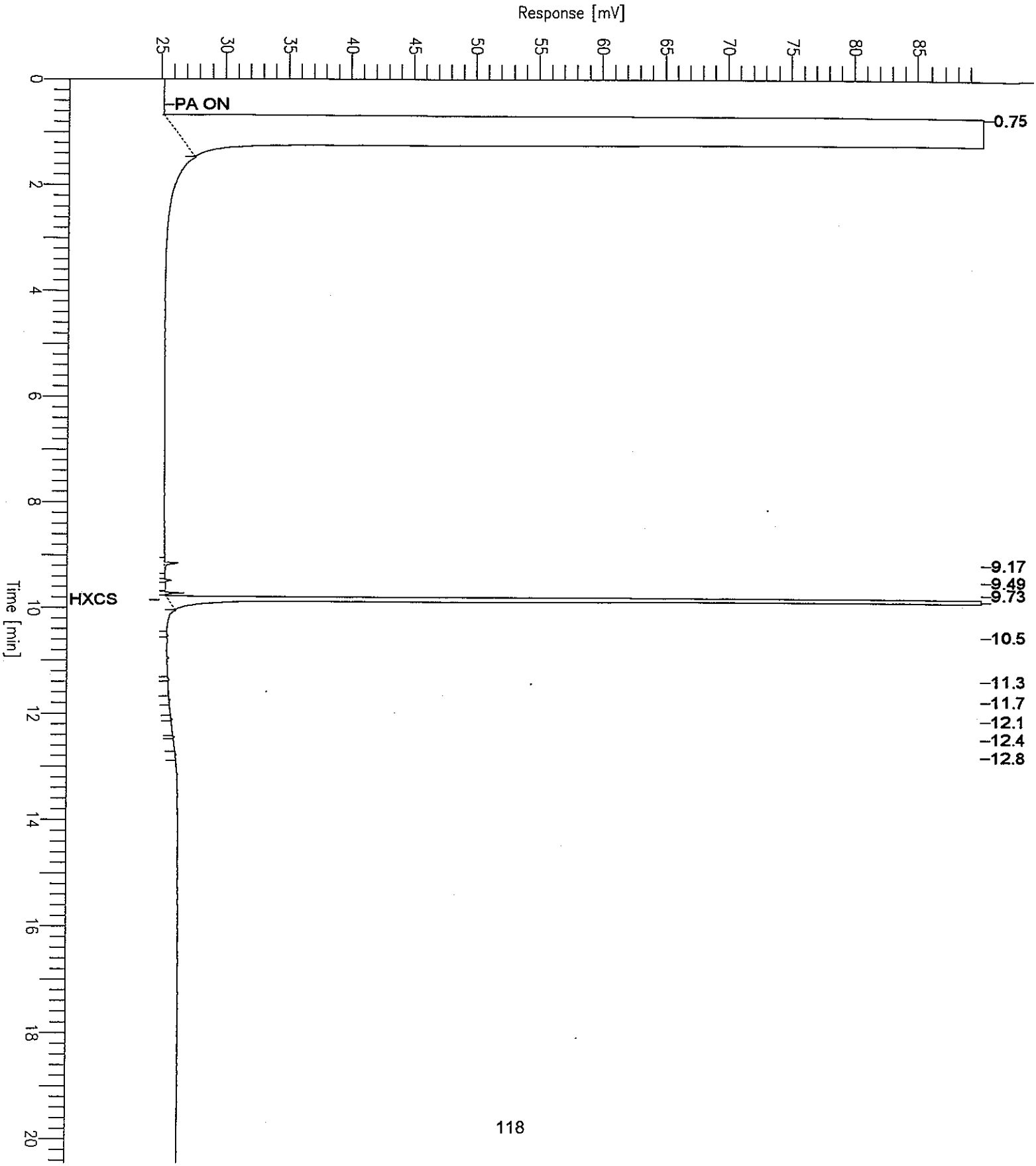
Analyzed By: [illegible] 8/26/04 Reviewed By: [illegible] 8/27/04

Report stored in ASCII file: G:\GC11\CHA\239A006.TX0

Chromatogram

Sample Name : ical,04ws0537,hex75
FileName : G:\GC11\CHA\239A006.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 75mg/L
Date : 8/26/04 06:50 PM
Time of Injection: 8/26/04 06:29 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114410940021	11-OCT-2004 20:18	114306371001	30-JUL-2004	22204	21651	250.00	243.78	mg/L	-2	15	
GC11A	A	114410940035	12-OCT-2004 03:08	114306371001	30-JUL-2004	22204	21683	500.00	488.28	mg/L	-2	15	
GC11A	A	114410940048	12-OCT-2004 09:30	114306371001	30-JUL-2004	22204	23032	1000.0	1037.3	mg/L	4	15	

CONTINUING CALIBRATION SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114410940021	11-OCT-2004 20:18	114345124001	26-AUG-2004	30138	31896	50.000	52.917	mg/L	6	15	
GC11A	A	114410940035	12-OCT-2004 03:08	114345124001	26-AUG-2004	30138	32776	50.000	54.377	mg/L	9	15	
GC11A	A	114410940048	12-OCT-2004 09:30	114345124001	26-AUG-2004	30138	33254	50.000	55.171	mg/L	10	15	

Software Version: 4.1<2F12>
Date: 10/12/04 08:28 AM
Sample Name : ccv,04ws1563,dsl
Data File : G:\GC11\CHA\285A021.RAW Date: 10/11/04 08:18 PM
Sequence File: G:\GC11\285.SEQ Cycle: 21 Channel : A
Instrument : GC11 Rack/Vial: 0/21 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	4517005	135.07	135.0749	1.00	1.00	135.0749
JP5:10-16	4517005	216.50	216.4982	1.00	1.00	216.4982
JETA:10-16	4517005	232.97	232.9674	1.00	1.00	232.9674
JP8:10-16	4517005	237.77	237.7685	1.00	1.00	237.7685
DSL:10-22	6438856	246.17	246.1737	1.00	1.00	246.1737
GAIAFP:10-24	6485753	153.22	153.2151	1.00	1.00	153.2151
DSL:10-24	6485753	246.43	246.4322	1.00	1.00	246.4322
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	5365970	243.46	243.4568	1.00	1.00	243.4568
DSL:10-28	8085001	306.60	306.6015	1.00	1.00	306.6015
DSL:12-24	5412866	243.78	243.7832	1.00	1.00	243.7832
RRFPLH:16-24	1968748	284.93	284.9261	1.00	1.00	284.9261
CRUDE:10-40	8103239	8.10	8.1032	1.00	1.00	8.1032
TRIMSOL:12-36	7016624	285.17	285.1651	1.00	1.00	285.1651
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	7030353	909.93	909.9254	1.00	1.00	909.9254
TRANSOIL:12-40	7030353	244.31	244.3063	1.00	1.00	244.3063
HYFL:12-40	7030353	301.00	300.9952	1.00	1.00	300.9952
MO:22-32	1647588	83.28	83.2829	1.00	1.00	83.2829
MO:20-36	1830891	74.63	74.6264	1.00	1.00	74.6264
MO:22-36	1650654	75.35	75.3521	1.00	1.00	75.3521
HYFL:24-36	1603757	112.22	112.2193	1.00	1.00	112.2193
TPHHF:24-36	1603757	1.60e-07	1.6038e-07	1.00	1.00	1.6038e-07
MO:24-36	1603757	91.42	91.4233	1.00	1.00	91.4233
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

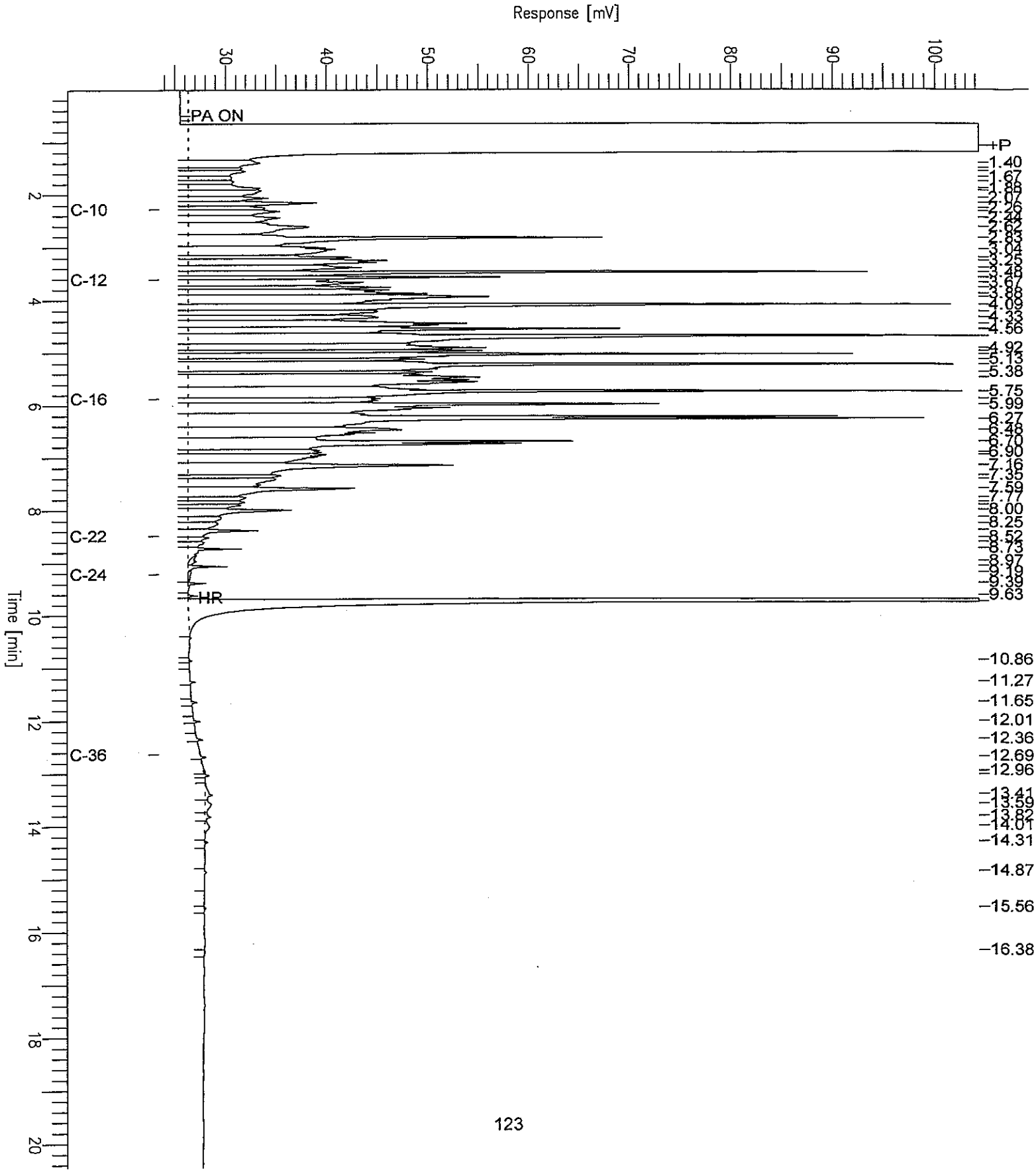
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A021P.TXO

Chromatogram

Sample Name : ccv,04ws1563,dsl
FileName : G:\GC11\CHA\285A021.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 250mg/L
Date : 10/12/04 08:28 AM
Time of Injection: 10/11/04 08:18 PM
Low Point : 23.44 mV High Point : 104.31 mV
Plot Scale: 80.9 mV



Software Version: 4.1<2F12>
Date: 10/11/04 08:39 PM
Sample Name : ccv,04ws1563,dsl
Data File : G:\GC11\CHA\285A021.RAW Date: 10/11/04 08:18 PM
Sequence File: G:\GC11\285.SEQ Cycle: 21 Channel : A
Instrument : GC11 Rack/Vial: 0/21 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1594816	52.92	52.9173			9.744	105.8346

CURTIS & TOMPKINS,LTD. BERKELEY

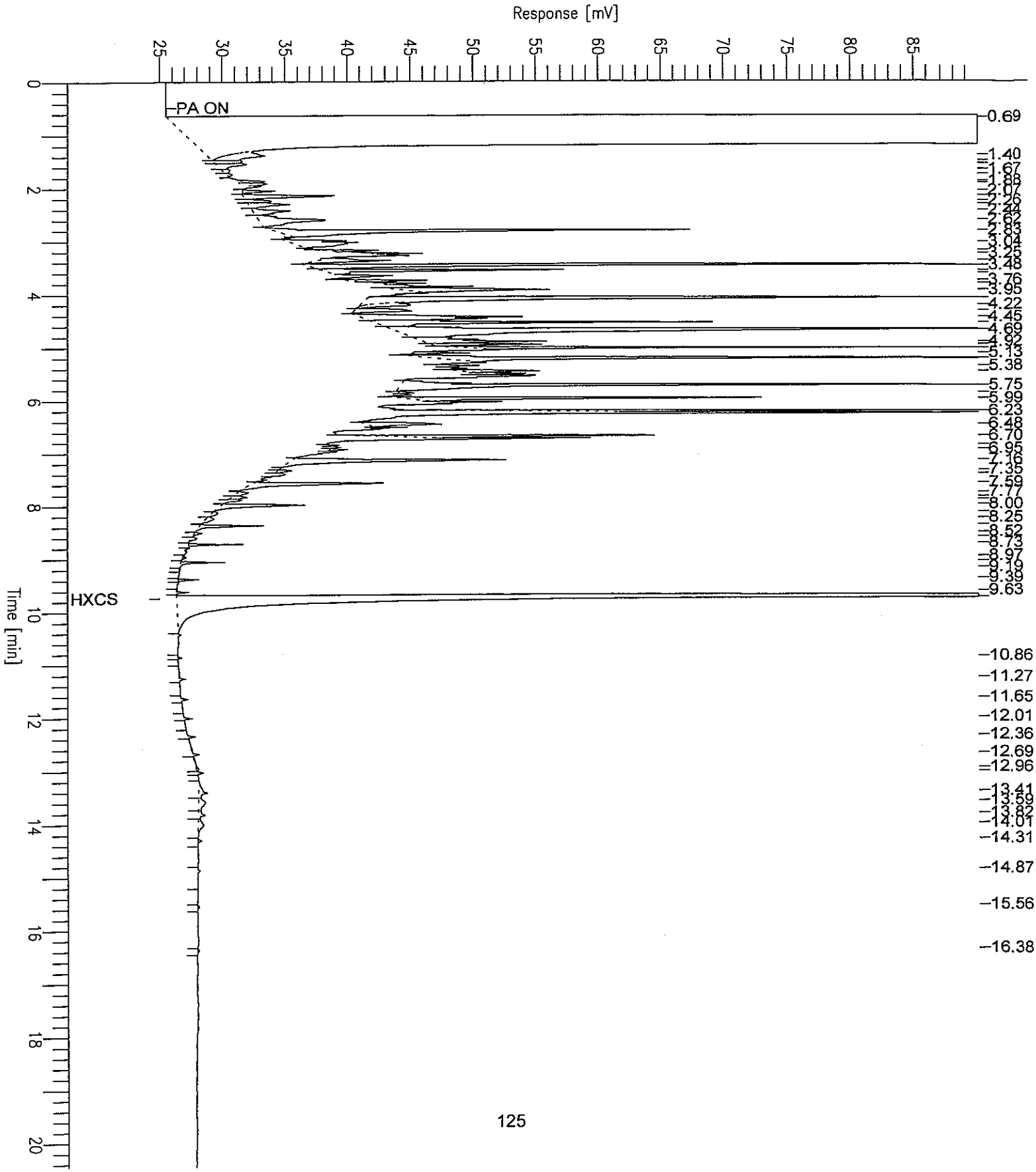
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A021.TX0

Chromatogram

Sample Name : ccv,04ws1563,dsl
FileName : G:\GC11\CHA\285A021.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 250mg/L
Date : 10/11/04 08:39 PM
Time of Injection: 10/11/04 08:18 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 10/12/04 08:36 AM
Sample Name : ccv,04ws1621,dsl
Data File : G:\GC11\CHA\285A035.RAW Date: 10/12/04 03:08 AM
Sequence File: G:\GC11\285.SEQ Cycle: 35 Channel : A
Instrument : GC11 Rack/Vial: 0/35 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	9160353	273.93	273.9279	1.00	1.00	273.9279
JP5:10-16	9160353	439.05	439.0519	1.00	1.00	439.0519
JETA:10-16	9160353	472.45	472.4510	1.00	1.00	472.4510
JP8:10-16	9160353	482.19	482.1875	1.00	1.00	482.1875
DSL:10-22	12953010	495.23	495.2262	1.00	1.00	495.2262
GAIAFP:10-24	13048872	308.26	308.2579	1.00	1.00	308.2579
DSL:10-24	13048872	495.80	495.8040	1.00	1.00	495.8040
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10745739	487.54	487.5397	1.00	1.00	487.5397
DSL:10-28	14696747	557.33	557.3339	1.00	1.00	557.3339
DSL:12-24	10841601	488.28	488.2810	1.00	1.00	488.2810
RRFPLH:16-24	3888520	562.76	562.7642	1.00	1.00	562.7642
CRUDE:10-40	14707082	14.71	14.7071	1.00	1.00	14.7071
TRIMSOL:12-36	12496223	507.86	507.8634	1.00	1.00	507.8634
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	12499811	1617.83	1617.8272	1.00	1.00	1617.8272
TRANSOIL:12-40	12499811	434.37	434.3712	1.00	1.00	434.3712
HYFL:12-40	12499811	535.16	535.1628	1.00	1.00	535.1628
MO:22-32	1745857	88.25	88.2502	1.00	1.00	88.2502
MO:20-36	2112617	86.11	86.1095	1.00	1.00	86.1095
MO:22-36	1750484	79.91	79.9093	1.00	1.00	79.9093
HYFL:24-36	1654622	115.78	115.7785	1.00	1.00	115.7785
TPHHF:24-36	1654622	1.65e-07	1.6546e-07	1.00	1.00	1.6546e-07
MO:24-36	1654622	94.32	94.3228	1.00	1.00	94.3228
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

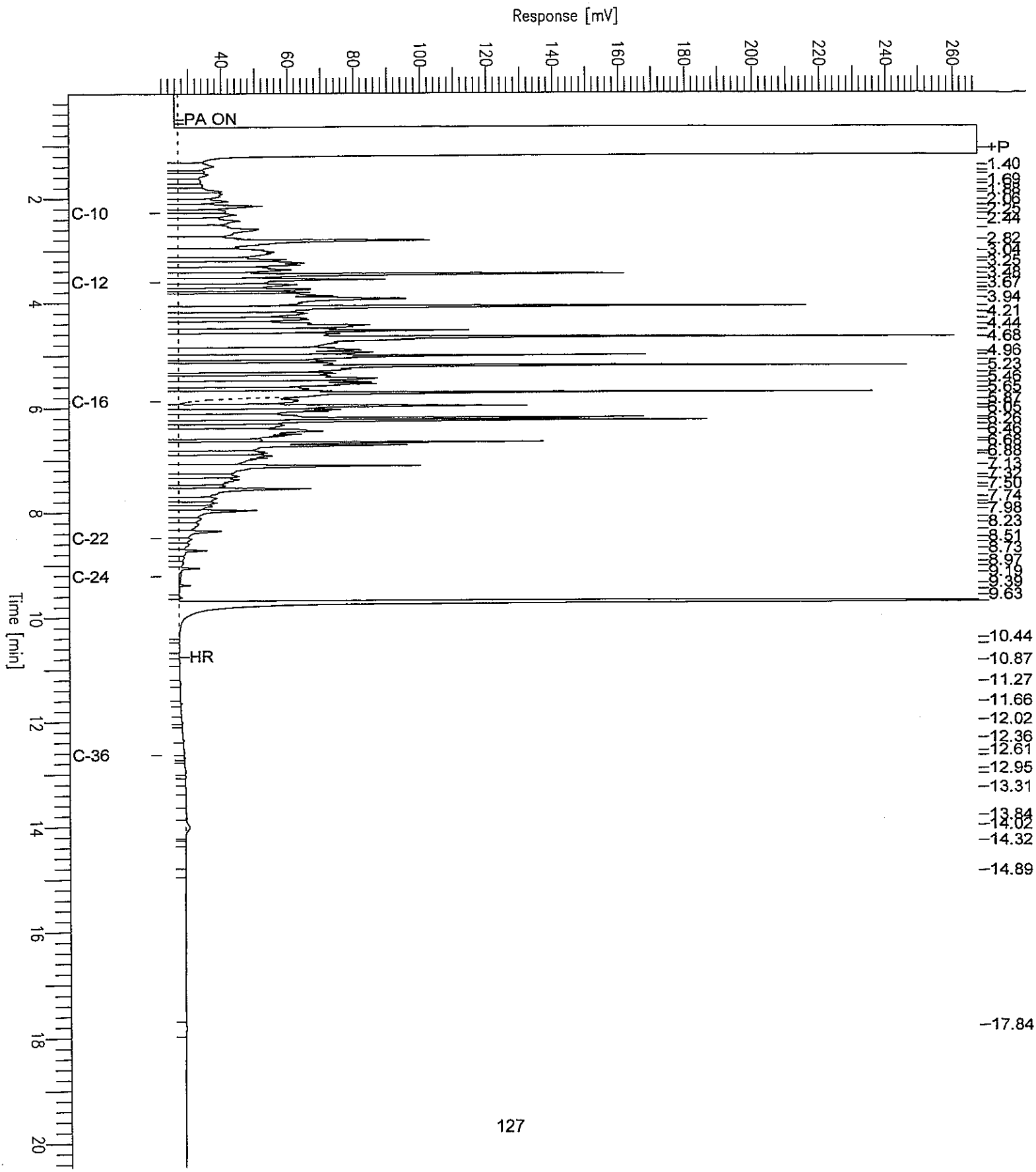
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A035P.TXO

Chromatogram

Sample Name : ccv,04ws1621,dsl
FileName : G:\GCI1\CHA\285A035.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 10/12/04 08:36 AM
Time of Injection: 10/12/04 03:08 AM
Low Point : 21.51 mV High Point : 267.33 mV
Plot Scale: 245.8 mV



Software Version: 4.1<2F12>
Date: 10/12/04 03:29 AM
Sample Name : ccv,04ws1621,dsl
Data File : G:\GC11\CHA\285A035.RAW Date: 10/12/04 03:08 AM
Sequence File: G:\GC11\285.SEQ Cycle: 35 Channel : A
Instrument : GC11 Rack/Vial: 0/35 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1638799	54.38	54.3767			9.743	108.7534

CURTIS & TOMPKINS,LTD. BERKELEY

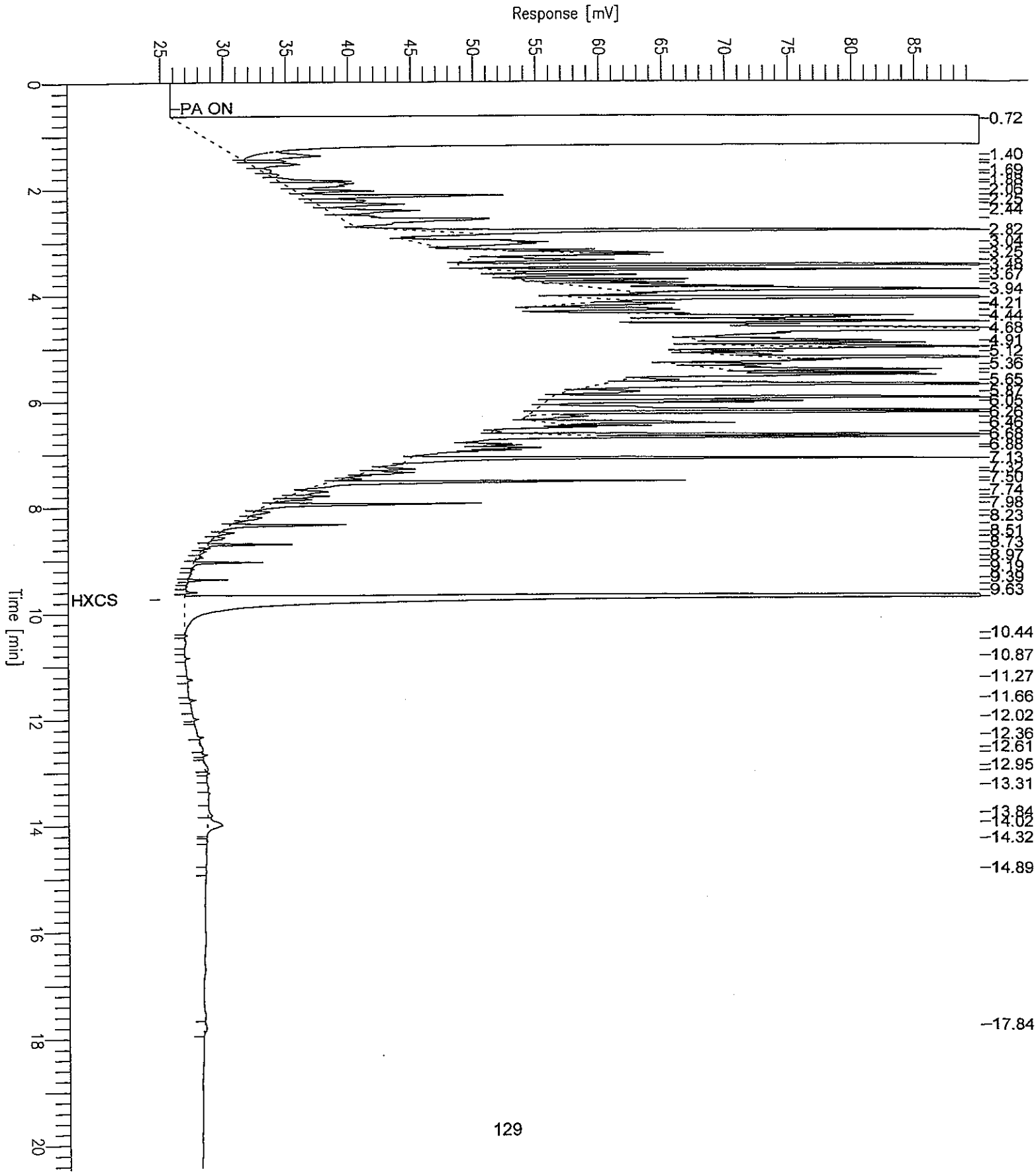
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A035.TX0

Chromatogram

Sample Name : ccv,04ws1621,dsl
FileName : G:\GC11\CHA\285A035.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 10/12/04 03:29 AM
Time of Injection: 10/12/04 03:08 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 10/12/04 10:06 AM
Sample Name : ccv,04ws1579,dsl
Data File : G:\GC11\CHA\285A048.RAW Date: 10/12/04 09:30 AM
Sequence File: G:\GC11\285.SEQ Cycle: 48 Channel : A
Instrument : GC11 Rack/Vial: 0/48 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL.	FACT MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	19569810	585.21	585.2085	1.00	1.00	585.2085
JP5:10-16	19569810	937.97	937.9729	1.00	1.00	937.9729
JETA:10-16	19569810	1009.33	1009.3254	1.00	1.00	1009.3254
JP8:10-16	19569810	1030.13	1030.1260	1.00	1.00	1030.1260
DSL:10-22	27528754	1052.49	1052.4936	1.00	1.00	1052.4936
GAIAFP:10-24	27753861	655.64	655.6387	1.00	1.00	655.6387
DSL:10-24	27753861	1054.53	1054.5336	1.00	1.00	1054.5336
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	22807106	1034.77	1034.7702	1.00	1.00	1034.7702
DSL:10-28	29451275	1116.86	1116.8590	1.00	1.00	1116.8590
DSL:12-24	23032213	1037.32	1037.3183	1.00	1.00	1037.3183
RRFPLH:16-24	8184051	1184.43	1184.4328	1.00	1.00	1184.4328
CRUDE:10-40	29467183	29.47	29.4672	1.00	1.00	29.4672
TRIMSOL:12-36	24736837	1005.34	1005.3385	1.00	1.00	1005.3385
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	24745535	3202.77	3202.7682	1.00	1.00	3202.7682
TRANSOIL:12-40	24745535	859.91	859.9129	1.00	1.00	859.9129
HYFL:12-40	24745535	1059.45	1059.4471	1.00	1.00	1059.4471
MO:22-32	1926617	97.39	97.3873	1.00	1.00	97.3873
MO:20-36	2691570	109.71	109.7074	1.00	1.00	109.7074
MO:22-36	1929730	88.09	88.0918	1.00	1.00	88.0918
HYFL:24-36	1704624	119.28	119.2773	1.00	1.00	119.2773
TPHHF:24-36	1704624	1.70e-07	1.7046e-07	1.00	1.00	1.7046e-07
MO:24-36	1704624	97.17	97.1732	1.00	1.00	97.1732
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

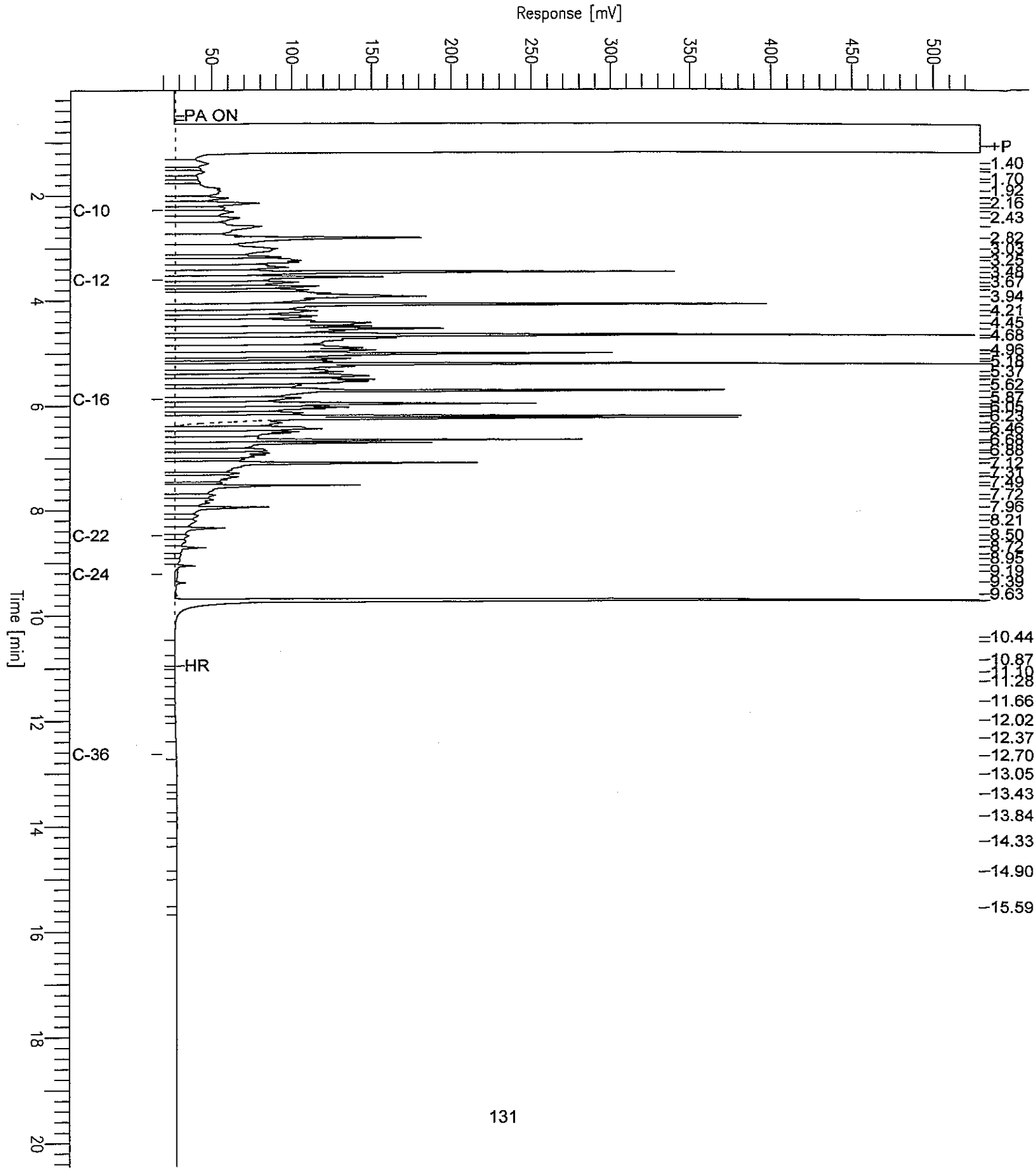
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A048P.TX0

Chromatogram

Sample Name : ccv,04ws1579,dsl
FileName : G:\GC11\CHA\285A048.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 1000mg/L Page 1 of 1
Date : 10/12/04 10:06 AM
Time of Injection: 10/12/04 09:30 AM
Low Point : 19.48 mV High Point : 529.33 mV
Plot Scale: 509.9 mV



Software Version: 4.1<2F12>
Date: 10/12/04 09:50 AM
Sample Name : ccv,04ws1579,dsl
Data File : G:\GC11\CHA\285A048.RAW Date: 10/12/04 09:30 AM
Sequence File: G:\GC11\285.SEQ Cycle: 48 Channel : A
Instrument : GC11 Rack/Vial: 0/48 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1662724	55.17	55.1705			9.744	110.3411

CURTIS & TOMPKINS,LTD. BERKELEY

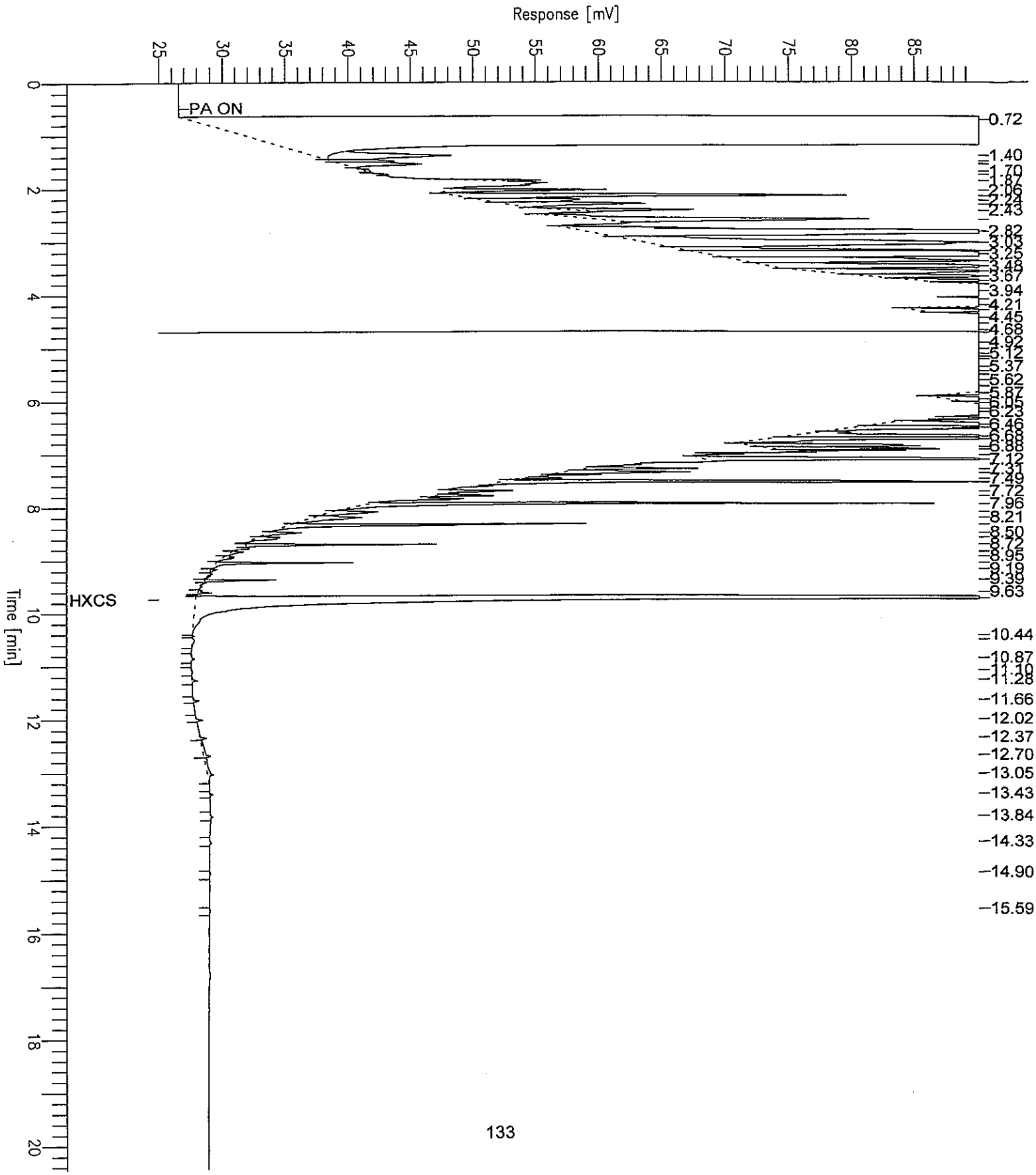
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A048.TX0

Chromatogram

Sample Name : ccv,04ws1579,dsl
FileName : G:\GC11\CHA\285A048.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 1000mg/L
Date : 10/12/04 09:50 AM
Time of Injection: 10/12/04 09:30 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



CONTINUING CALIBRATION SUMMARY FOR 175141 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg Rf/CF	Rf/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114410940023	11-OCT-2004 21:17	114295755001	23-JUL-2004	17542	16497	500.00	470.20	mg/L	-6	15	
GC11A	A	114410940037	12-OCT-2004 04:07	114295755001	23-JUL-2004	17542	16916	500.00	482.14	mg/L	-4	15	
GC11A	A	114410940050	12-OCT-2004 10:28	114295755001	23-JUL-2004	17542	16383	500.00	466.97	mg/L	-7	15	

Software Version: 4.1<2F12>
Date: 10/12/04 08:29 AM
Sample Name : ccv,04ws1793,mo
Data File : G:\GC11\CHA\285A023.RAW Date: 10/11/04 09:17 PM
Sequence File: G:\GC11\285.SEQ Cycle: 23 Channel : A
Instrument : GC11 Rack/Vial: 0/23 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	237	0.01	0.0071	1.00	1.00	0.0071
JP5:10-16	237	0.01	0.0114	1.00	1.00	0.0114
JETA:10-16	237	0.01	0.0122	1.00	1.00	0.0122
JP8:10-16	237	0.01	0.0125	1.00	1.00	0.0125
DSL:10-22	2189860	83.72	83.7238	1.00	1.00	83.7238
GAIAFP:10-24	4555170	107.61	107.6083	1.00	1.00	107.6083
DSL:10-24	4555170	173.08	173.0779	1.00	1.00	173.0779
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2189860	99.36	99.3551	1.00	1.00	99.3551
DSL:10-28	10993162	416.89	416.8856	1.00	1.00	416.8856
DSL:12-24	4555170	205.15	205.1545	1.00	1.00	205.1545
RRFPLH:16-24	4554932	659.21	659.2104	1.00	1.00	659.2104
CRUDE:10-40	14479217	14.48	14.4792	1.00	1.00	14.4792
TRIMSOL:12-36	14303821	581.33	581.3266	1.00	1.00	581.3266
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	14479217	1874.02	1874.0179	1.00	1.00	1874.0179
TRANSOIL:12-40	14479217	503.16	503.1560	1.00	1.00	503.1560
HYFL:12-40	14479217	619.91	619.9084	1.00	1.00	619.9084
MO:22-32	11356364	574.05	574.0454	1.00	1.00	574.0454
MO:20-36	13913502	567.11	567.1090	1.00	1.00	567.1090
MO:22-36	12113961	553.00	553.0001	1.00	1.00	553.0001
HYFL:24-36	9748651	682.14	682.1402	1.00	1.00	682.1402
TPHHF:24-36	9748651	9.75e-07	9.7487e-07	1.00	1.00	9.7487e-07
MO:24-36	9748651	555.73	555.7285	1.00	1.00	555.7285
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

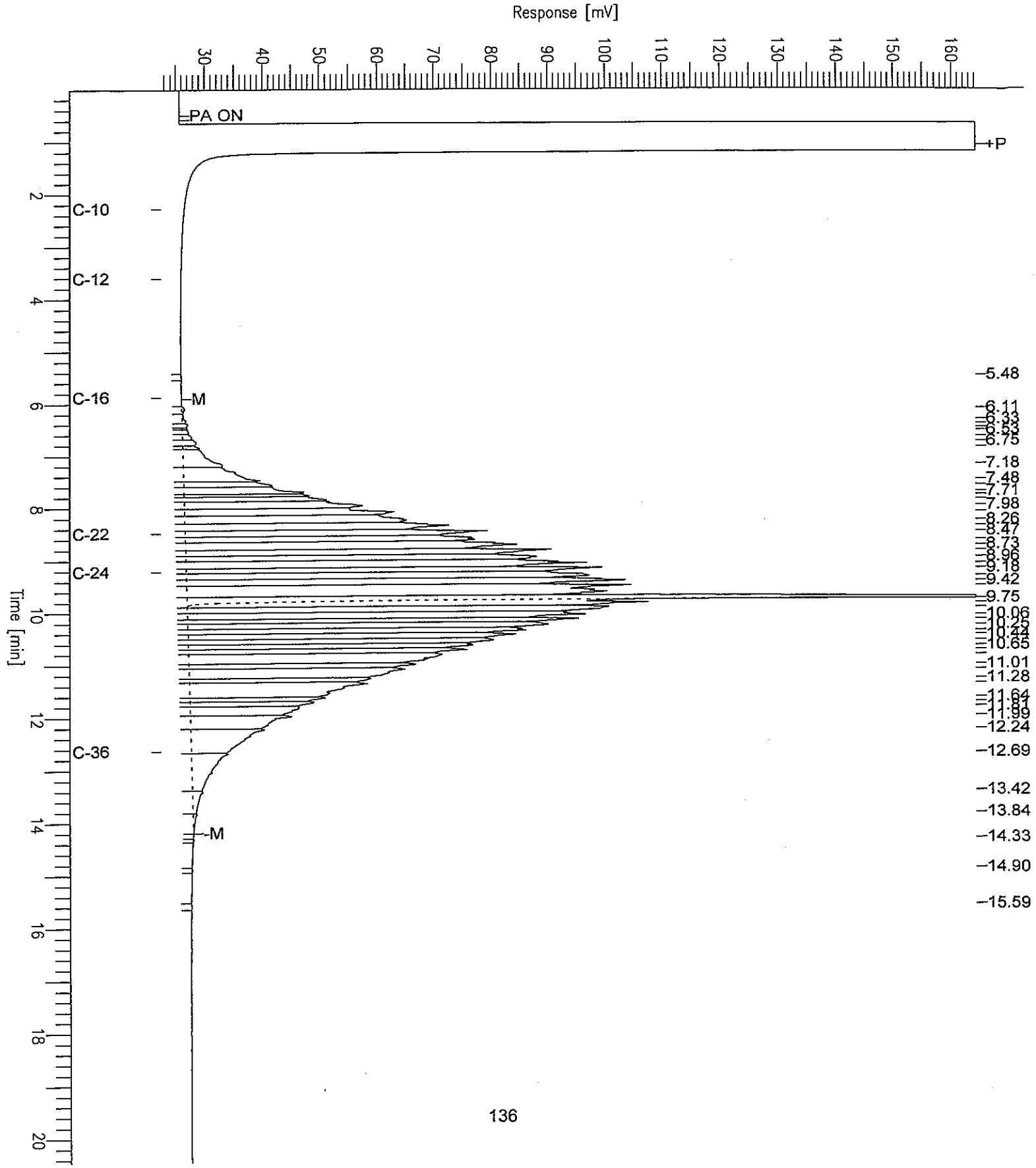
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A023P.TX0

Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC11\CHA\285A023.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 10/12/04 08:29 AM
Time of Injection: 10/11/04 09:17 PM
Low Point : 22.42 mV High Point : 164.25 mV
Plot Scale: 141.8 mV



Software Version: 4.1<2F12>
Date: 10/11/04 09:37 PM
Sample Name : ccv,04ws1793,mo
Data File : G:\GC11\CHA\285A023.RAW Date: 10/11/04 09:17 PM
Sequence File: G:\GC11\285.SEQ Cycle: 23 Channel : A
Instrument : GC11 Rack/Vial: 0/23 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	1500304	49.78	49.7813		9.753	99.5626

CURTIS & TOMPKINS,LTD. BERKELEY

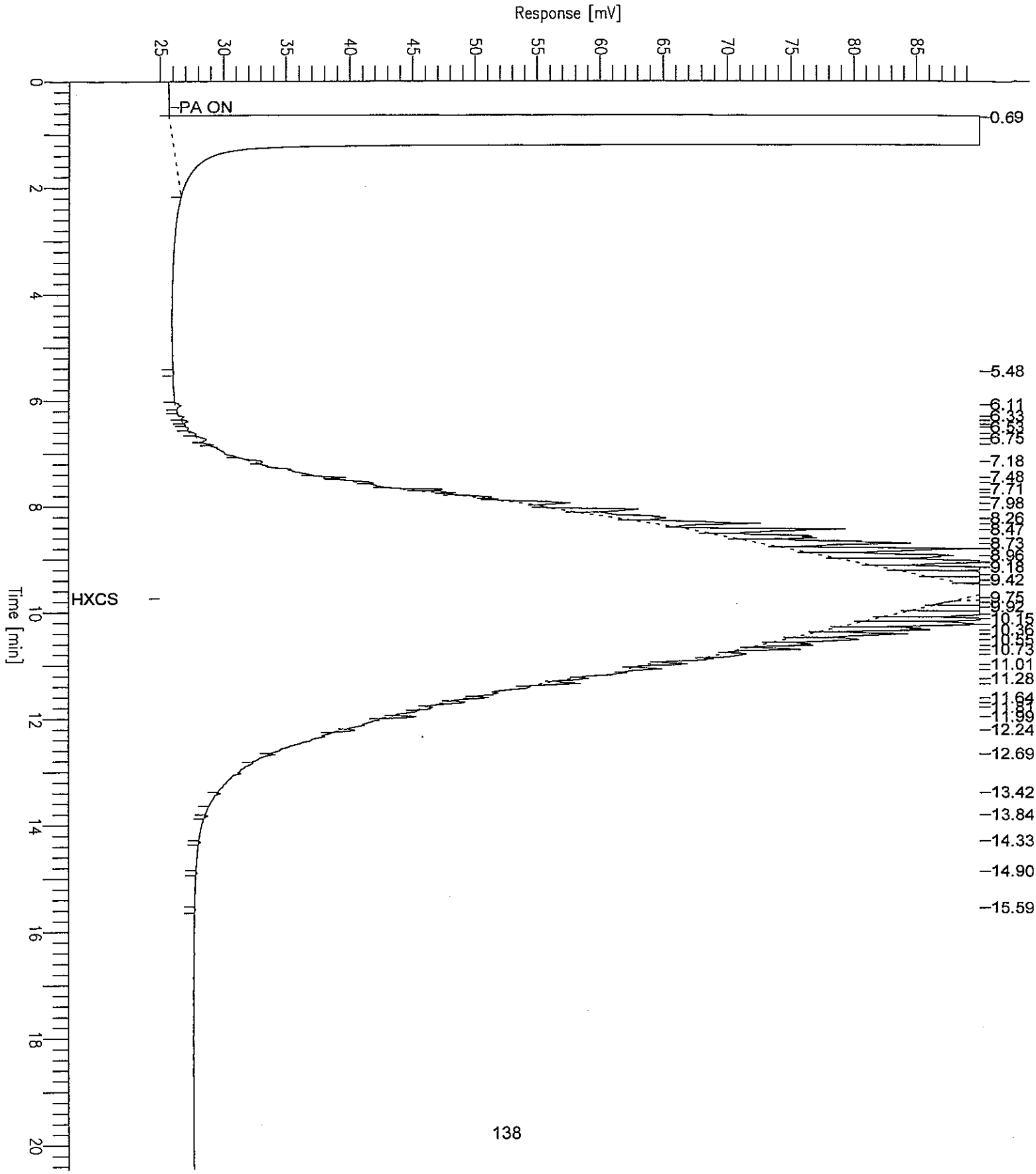
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A023.TX0

Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC11\CHA\285A023.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 10/11/04 09:37 PM
Time of Injection: 10/11/04 09:17 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 10/12/04 08:37 AM
Sample Name : ccv,04ws1793,mo
Data File : G:\GC11\CHA\285A037.RAW Date: 10/12/04 04:07 AM
Sequence File: G:\GC11\285.SEQ Cycle: 37 Channel : A
Instrument : GC11 Rack/Vial: 0/37 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	274	0.01	0.0082	1.00	1.00	0.0082
JP5:10-16	274	0.01	0.0131	1.00	1.00	0.0131
JETA:10-16	274	0.01	0.0141	1.00	1.00	0.0141
JP8:10-16	274	0.01	0.0144	1.00	1.00	0.0144
DSL:10-22	2218606	84.82	84.8229	1.00	1.00	84.8229
GAIAFP:10-24	4657072	110.02	110.0156	1.00	1.00	110.0156
DSL:10-24	4657072	176.95	176.9498	1.00	1.00	176.9498
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2218606	100.66	100.6593	1.00	1.00	100.6593
DSL:10-28	11088258	420.49	420.4918	1.00	1.00	420.4918
DSL:12-24	4657072	209.74	209.7439	1.00	1.00	209.7439
RRFPLH:16-24	4656798	673.95	673.9529	1.00	1.00	673.9529
CRUDE:10-40	14625381	14.63	14.6254	1.00	1.00	14.6254
TRIMSOL:12-36	14625381	594.40	594.3952	1.00	1.00	594.3952
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	14625381	1892.94	1892.9356	1.00	1.00	1892.9356
TRANSOIL:12-40	14625381	508.24	508.2352	1.00	1.00	508.2352
HYFL:12-40	14625381	626.17	626.1662	1.00	1.00	626.1662
MO:22-32	11733095	593.09	593.0885	1.00	1.00	593.0885
MO:20-36	14317623	583.58	583.5808	1.00	1.00	583.5808
MO:22-36	12406775	566.37	566.3670	1.00	1.00	566.3670
HYFL:24-36	9968309	697.51	697.5103	1.00	1.00	697.5103
TPHHF:24-36	9968309	9.97e-07	9.9683e-07	1.00	1.00	9.9683e-07
MO:24-36	9968309	568.25	568.2502	1.00	1.00	568.2502
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

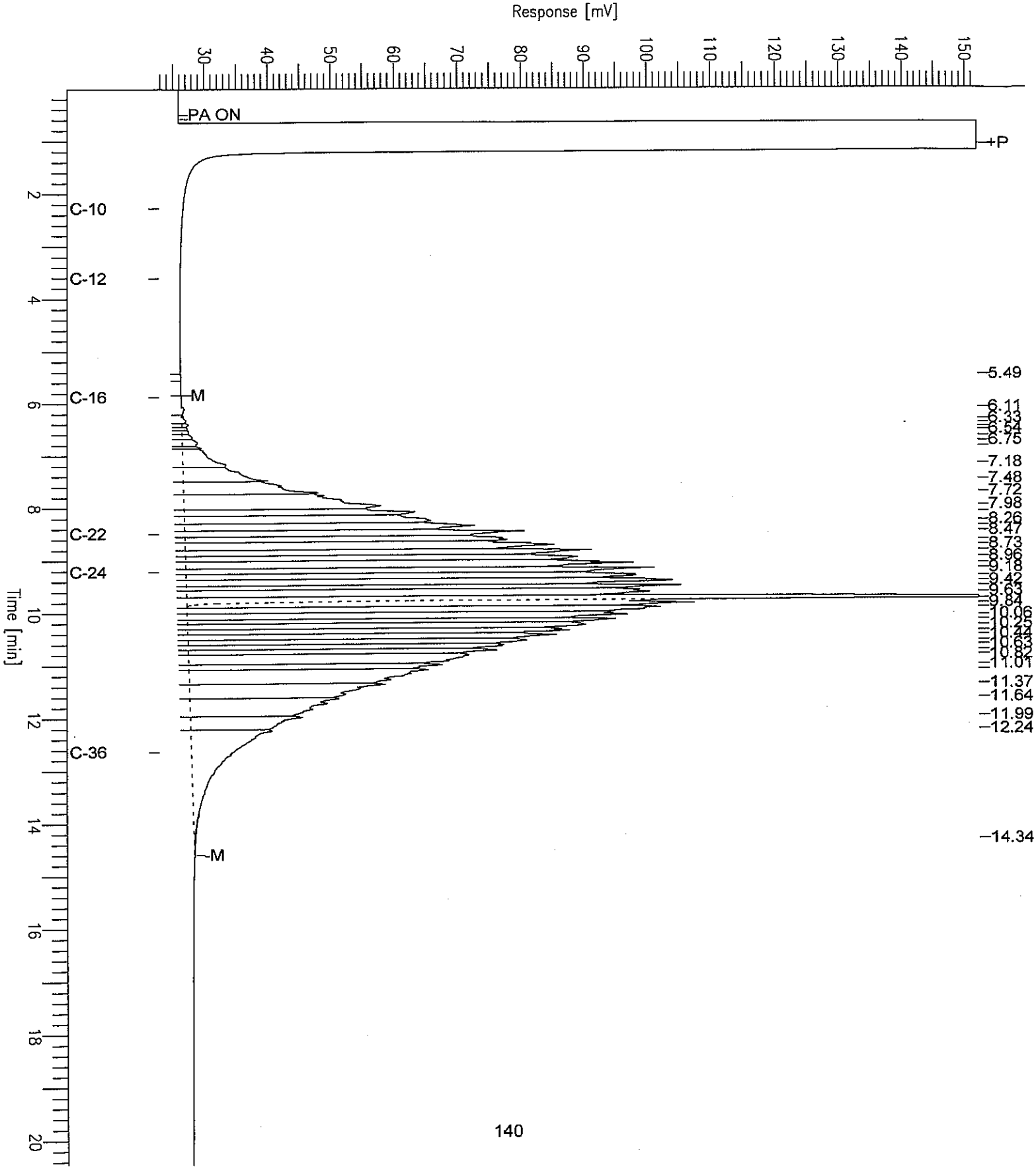
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A037P.TX0

Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC11\CHA\285A037.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 500mg/L
Date : 10/12/04 08:37 AM
Time of Injection: 10/12/04 04:07 AM
Low Point : 22.73 mV High Point : 151.86 mV
Plot Scale: 129.1 mV



Software Version: 4.1<2F12>
Date: 10/12/04 04:28 AM
Sample Name : ccv,04ws1793,mo
Data File : G:\GC11\CHA\285A037.RAW Date: 10/12/04 04:07 AM
Sequence File: G:\GC11\285.SEQ Cycle: 37 Channel : A
Instrument : GC11 Rack/Vial: 0/37 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1510483	50.12	50.1191			9.750	100.2381

CURTIS & TOMPKINS,LTD. BERKELEY

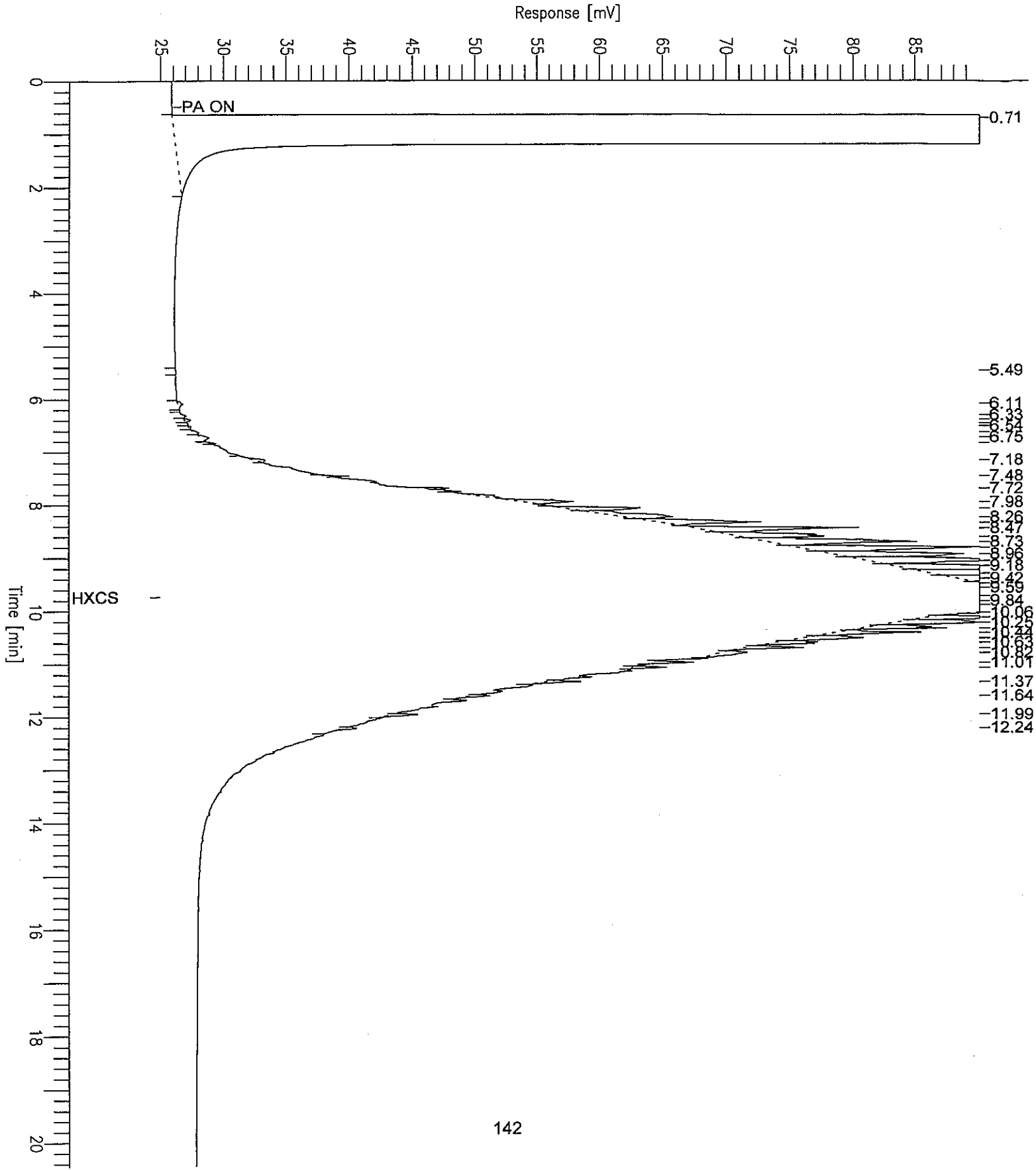
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A037.TXO

Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC11\CHA\285A037.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 10/12/04 04:28 AM
Time of Injection: 10/12/04 04:07 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 10/12/04 11:56 AM
Sample Name : ccv,04ws1793,mo
Data File : G:\GC11\CHA\285A050.RAW Date: 10/12/04 10:28 AM
Sequence File: G:\GC11\285.SEQ Cycle: 50 Channel : A
Instrument : GC11 Rack/Vial: 0/50 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area (µV·s)	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	212	0.01	0.0063	1.00	1.00	0.0063
JP5:10-16	212	0.01	0.0102	1.00	1.00	0.0102
JETA:10-16	212	0.01	0.0109	1.00	1.00	0.0109
JP8:10-16	212	0.01	0.0112	1.00	1.00	0.0112
DSL:10-22	2163576	82.72	82.7190	1.00	1.00	82.7190
GAIAFP:10-24	4565471	107.85	107.8516	1.00	1.00	107.8516
DSL:10-24	4565471	173.47	173.4693	1.00	1.00	173.4693
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2163576	98.16	98.1626	1.00	1.00	98.1626
DSL:10-28	10946619	415.12	415.1206	1.00	1.00	415.1206
DSL:12-24	4565471	205.62	205.6184	1.00	1.00	205.6184
RRFPLH:16-24	4565258	660.70	660.7048	1.00	1.00	660.7048
CRUDE:10-40	14240744	14.24	14.2407	1.00	1.00	14.2407
TRIMSOL:12-36	14240744	578.76	578.7631	1.00	1.00	578.7631
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	14240744	1843.15	1843.1528	1.00	1.00	1843.1528
TRANSOIL:12-40	14240744	494.87	494.8690	1.00	1.00	494.8690
HYFL:12-40	14240744	609.70	609.6985	1.00	1.00	609.6985
MO:22-32	11227855	567.55	567.5495	1.00	1.00	567.5495
MO:20-36	13847419	564.42	564.4155	1.00	1.00	564.4155
MO:22-36	12077168	551.32	551.3205	1.00	1.00	551.3205
HYFL:24-36	9675273	677.01	677.0057	1.00	1.00	677.0057
TPHHF:24-36	9675273	9.68e-07	9.6753e-07	1.00	1.00	9.6753e-07
MO:24-36	9675273	551.55	551.5455	1.00	1.00	551.5455
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

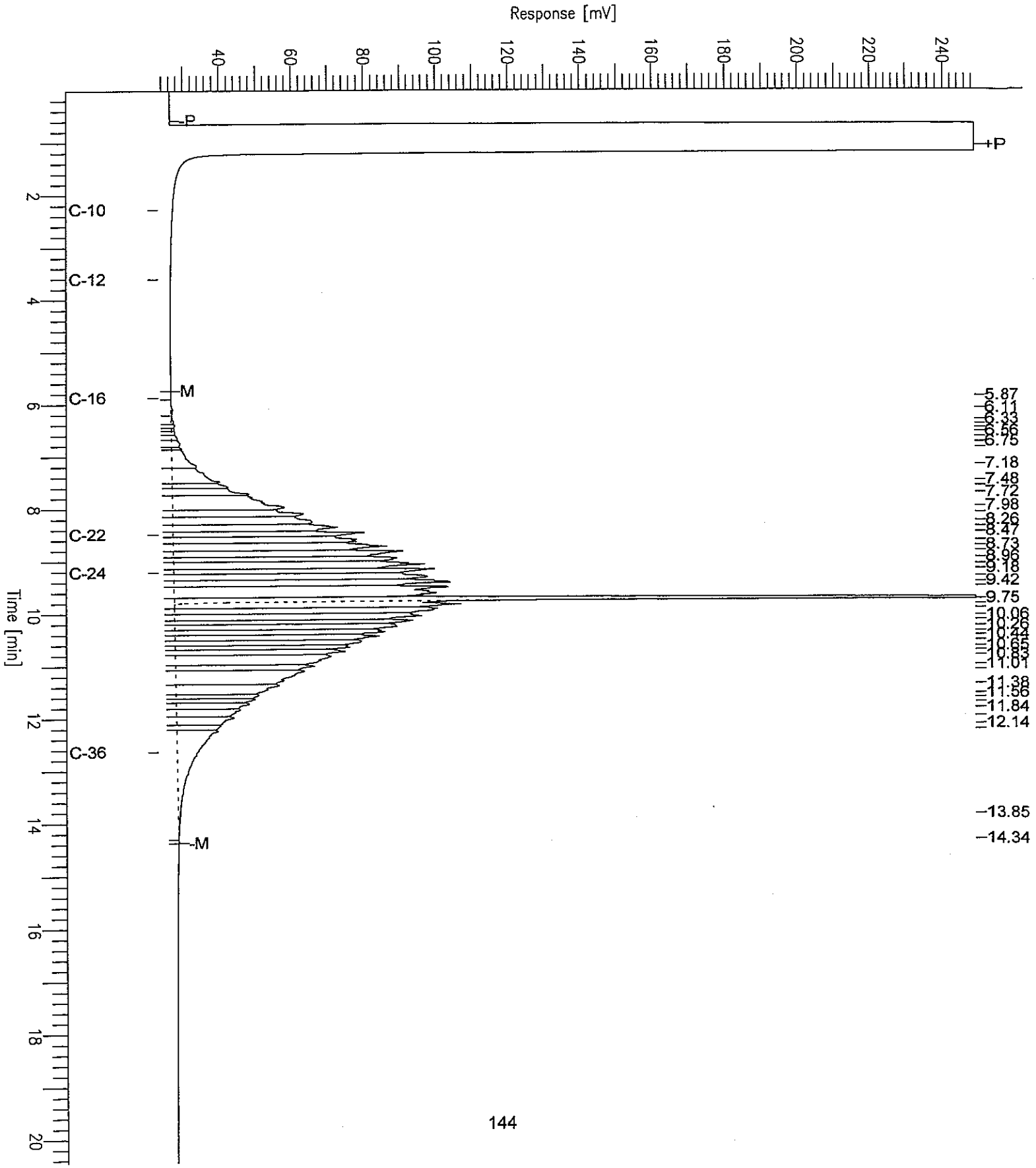
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A050P.TX0

Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC11\CHA\285A050.RAW
Method : ATEH244S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 500mg/L
Date : 10/12/04 11:56 AM
Time of Injection: 10/12/04 10:28 AM
Low Point : 23.13 mV High Point : 248.74 mV
Plot Scale: 225.6 mV



Software Version: 4.1<2F12>
Date: 10/12/04 10:49 AM
Sample Name : ccv,04ws1793,mo
Data File : G:\GC11\CHA\285A050.RAW Date: 10/12/04 10:28 AM
Sequence File: G:\GC11\285.SEQ Cycle: 50 Channel : A
Instrument : GC11 Rack/Vial: 0/50 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1483701	49.23	49.2304			9.754	98.4609

CURTIS & TOMPKINS,LTD. BERKELEY

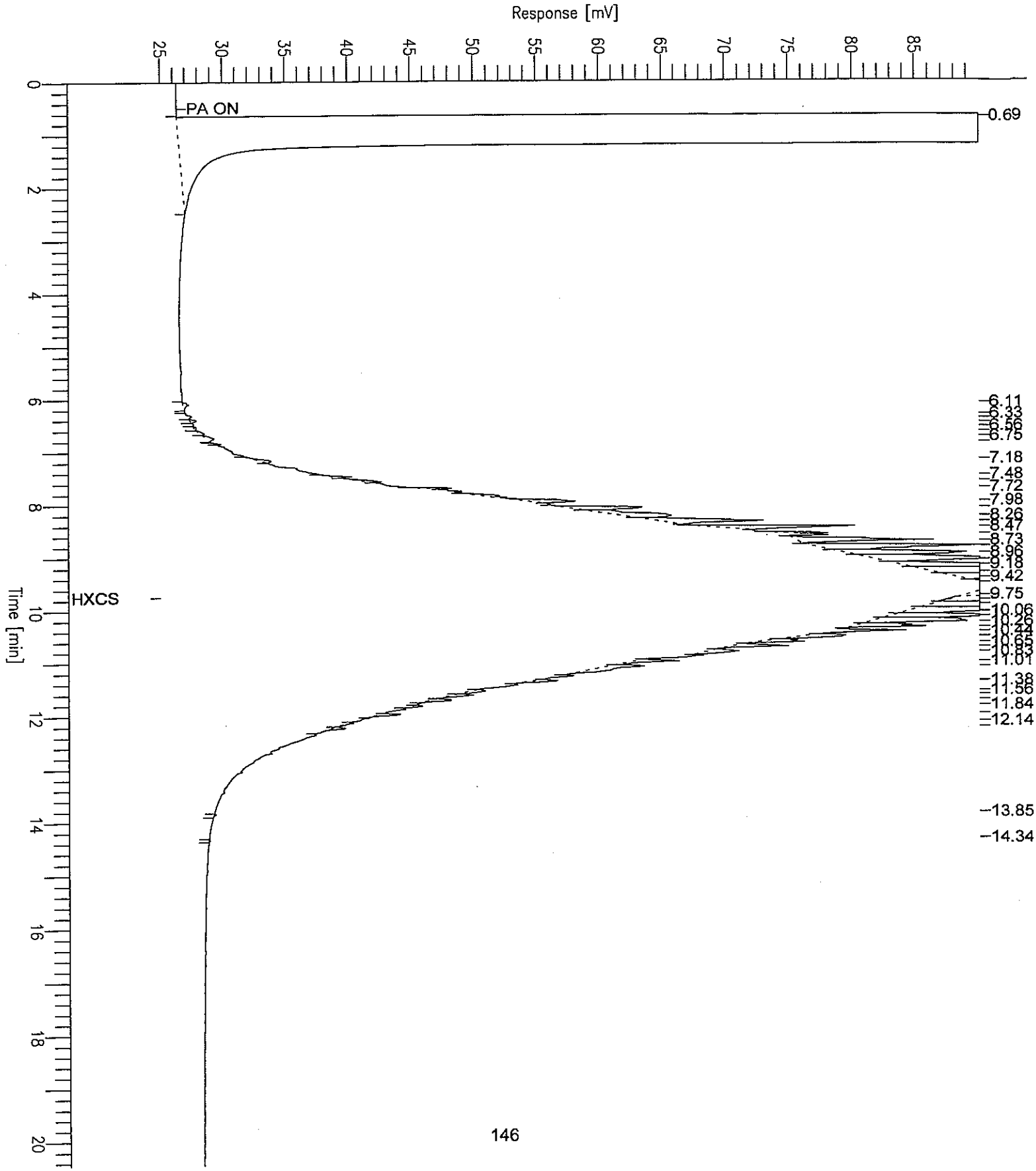
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\285A050.TXO

Chromatogram

Sample Name : ccv,04ws1793,mo
FileName : G:\GC11\CHA\285A050.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 10/12/04 10:49 AM
Time of Injection: 10/12/04 10:28 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 95274
Date: 10/08/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175141-002	10.9255	18.8777	18.5163	95	5
175141-003	15.2567	22.2113	22.1431	99	1
175141-004	15.0494	22.5615	22.4550	99	1
175141-005	11.0493	19.0626	18.9082	98	2
175141-006	10.9358	18.7028	18.6223	99	1
175141-007	10.9331	18.3537	18.2635	99	1
175141-010	15.5842	22.7842	22.6887	99	1
QC267285 of 175141-010	10.9937	19.0930	18.9827	99	1
			RPD:	0.0%	2.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95274
Date Started: 07-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
175141-002			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-003			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-004			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-005			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-006			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-007			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-010			Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
QC267285	SDUP	of 175141-010		Soil	MOISTURE	

10/7/04

952774

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	RA	11.0029	—	11.0028	
175141-2	A	RC	10.9255	18.8777	18.5163	
3		9A	15.2567	22.2113	22.1431	
4		103	15.0494	22.5615	22.4550	
5		B10D	11.0493	19.8626	18.9082	
6		VED	10.9358	18.7028	18.6223	
7		ZAX	10.9331	18.3537	18.2635	
10		5X	15.5842	22.7842	22.6887	
DUP. 10		BDD	10.9937	19.8938	18.9827	

OVEN TEMP: 104°C
TIME IN: 5:30 P.M.
TIME OUT: 8:25 A.M. ON: 10-8-04

Continued on Page

Read and Understood By

D. Morrell 10-7-04 150 [illegible] 10/8/04
Signed Date Signed Date

Percent Moisture Summary Report

Batch: 95335
Date: 10/11/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175043-001	11.1875	18.1785	12.9724	26	74
175043-002	10.9942	18.0834	12.7766	25	75
175043-004	11.0707	18.3448	12.1390	15	85
175043-005	11.0521	19.4830	13.6454	31	69
175043-007	11.2430	18.3740	12.8000	22	78
175043-010	15.6101	22.4980	16.4261	12	88
175043-011	11.0427	19.1054	12.1676	14	86
175043-016	15.2570	20.7811	16.2340	18	82
175043-017	10.9328	16.1384	11.8770	18	82
175059-047	15.3163	22.1672	21.8631	96	4
175059-049	10.9900	18.5694	17.7573	89	11
175059-064	15.5723	22.1421	21.2435	86	14
175059-065	11.0035	18.5803	17.5199	86	14
175059-071	11.0500	18.7381	18.0219	91	9
175059-072	15.5826	22.3131	21.5802	89	11
175141-001	11.1350	19.2009	19.1169	99	1
175141-009	11.0717	19.5083	19.4316	99	1
175164-001	11.0658	18.5680	18.1558	95	5
QC267536	15.7997	22.8207	16.7955	14	86
of 175043-011			RPD:	1.6%	0.3%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 95335
Date Started: 11-OCT-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175043-001		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-002		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-004		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-005		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-007		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-010		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-011		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-016		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175043-017		URS Corporation	Miscell.	MOISTURE	13-OCT-2004
175059-047		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-049		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-064		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-065		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-071		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175059-072		Northgate Environm	Soil	MOISTURE	11-OCT-2004
175141-001		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175141-009		Treadwell & Rollo	Soil	MOISTURE	08-OCT-2004
175164-001		Blasland, Bouck &	Soil	MOISTURE	14-OCT-2004
QC267536	SDUP of 175043-011		Miscell.	MOISTURE	

10/10/04

95335

Sample		B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		/	1D	15.7378	—	15.7378	
175054	47	A	117L	15.3163	22.1672	21.8631	
	49		2	10.9900	18.5694	17.7573	
	64		9D	15.5723	22.1421	21.2435	
	65		12A	11.0035	18.5603	17.5199	
	71		B11G	11.0500	18.7381	18.0219	
	72		5X	15.5826	22.3131	21.5602	
175043	1		DHW	11.1825	18.1785	12.9724	COMP. A-D
	2		B120	10.9942	18.0834	12.7764	
	4		B107	11.0707	18.3448	12.1390	COMP. A-D
	5		B100	11.0521	19.4830	13.6454	
	7		D	11.2430	18.3740	12.8000	
	10		3L	15.6101	22.4980	16.4261	
	11		B104	11.0427	19.1054	12.1674	
DMP	11		104	15.7997	22.8207	16.7955	
	16		9A	15.2570	20.7811	16.2340	COMP. A-B
	17		2AX	10.9328	16.1364	11.8770	COMP. A-B
175141	1		B116	11.1350	19.2009	19.1169	
	9		B112	11.0717	19.5083	19.4316	
175164	1		WDH	11.0658	18.5680	18.1558	

OVEN TEMP: 105°C
TIME IN: 3:00 P.M.
TIME OUT: 9:57 A.M. ON: 10-11-04

Continued on Page

Read and Understood By

D. Manning 10-10-04 — Signed Date

[illegible] 10/10/04 — Signed Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175141
Purgeable Organics by GC/MS
Matrix: Water

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: BBDA4

Sample ID	Lab ID
TB100704A	175141-008

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/17/04
Operations Manager

Signature: _____ Date: 11/16/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
VOLATILE ORGANICS BY GC/MS (EPA 8260B)
WATER

Laboratory number:	175141
Client:	Treadwell & Rollo
Project:	2893.12
Location:	BBDA4
Request Date:	10/07/04
Samples Received:	10/07/04

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 10/07/04. The sample was received cold and intact.

Volatile Organics by GC/MS (EPA 8260B) Water:
No analytical problems were encountered.

Chain of Custody

175141

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: BBDA4
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Dustin Sutherland
Recorder (Signature Required): D Sutherland

Turnaround Time: 24hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Pesticides	PCBs	VOCs	SVOCs	HS	Chlor Herbicides	TPH d/f/o	Metals	Silica gel clean-up	Hold	Remarks
-1 BB4EX100[0.5]	10-7-04	1303		X						X		X	X	X	X	X	X	X	X	X		Analysis from bottom B.
-2 BB4EX101[0.5]		1323		X						X		X							X			
-3 BB4EX102[0.5]		1335		X						X		X							X			
-4 BB4EX103[0.5]		1355		X						X		X							X			
-5 BB4EX104[0.5]		1244		X						X		X							X			
-6 BB4EX105[0.5]		1340		X						X		X							X			
-7 BB4EX106[0.5]		1288		X						X		X							X			
-8 TB100704A		1400			X					X				X								
-9 DUP100704A		1324		X						X	X	X	X	X	X	X	X	X	X		X	DUP100704A
-10 BB4EX107[0.5]		1352		X						X	X	X							X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
D Sutherland	10-7-04	1410	Tony Rogers	10/7/04	1410
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name):
Laboratory Comments/Notes:
RECEIVED ON ICE

Method of Shipment: [ ] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002242

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175141 Date Received: 10/7/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: BBD A4

A. Preliminary Examination Phase
Date Opened: 10/7/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 10/7/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Soil Cores in Plastic bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
B4. — Sample Dup100704A on Coc, Label Dup100604A, I.D'd by time.

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 10/8/04 1040 Initials: SES
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
175141			Soil	Update	Level III		10/8/10/14
(All samples)					to Level IV		
					(8081, PCB		
					8260, 8270		
					HG, T26/ICP		
					TEHM)		

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB100704A	Batch#:	95343
Lab ID:	175141-008	Sampled:	10/07/04
Matrix:	Water	Received:	10/07/04
Units:	ug/L	Analyzed:	10/11/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.4
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.4
Freon 113	ND	5.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.06
MTBE	ND	0.5	0.06
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.09
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.08
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.08
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.2
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.09
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.2
Chlorobenzene	ND	0.5	0.2
1,1,1,2-Tetrachloroethane	ND	0.5	0.2
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.3
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.06
Isopropylbenzene	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.2
1,2,3-Trichloropropane	ND	0.5	0.3
Propylbenzene	ND	0.5	0.2
Bromobenzene	ND	0.5	0.2
1,3,5-Trimethylbenzene	ND	0.5	0.2
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.2

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB100704A	Batch#:	95343
Lab ID:	175141-008	Sampled:	10/07/04
Matrix:	Water	Received:	10/07/04
Units:	ug/L	Analyzed:	10/11/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
tert-Butylbenzene	ND	0.5	0.2
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.2
para-Isopropyl Toluene	ND	0.5	0.2
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.2
n-Butylbenzene	ND	0.5	0.2
1,2-Dichlorobenzene	ND	0.5	0.2
1,2-Dibromo-3-Chloropropane	ND	0.5	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.3
Hexachlorobutadiene	ND	0.5	0.2
Naphthalene	ND	0.5	0.3
1,2,3-Trichlorobenzene	ND	0.5	0.3

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	104	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267565	Batch#:	95343
Matrix:	Water	Analyzed:	10/11/04
Units:	ug/L		

Analyte	Result	RL	MDL
Freon 12	ND	1.0	0.2
Chloromethane	ND	1.0	0.3
Vinyl Chloride	ND	0.5	0.2
Bromomethane	ND	1.0	0.2
Chloroethane	ND	1.0	0.4
Trichlorofluoromethane	ND	1.0	0.2
Acetone	ND	10	0.4
Freon 113	ND	5.0	0.1
1,1-Dichloroethene	ND	0.5	0.1
Methylene Chloride	ND	10	0.2
Carbon Disulfide	ND	0.5	0.06
MTBE	ND	0.5	0.06
trans-1,2-Dichloroethene	ND	0.5	0.1
Vinyl Acetate	ND	10	0.09
1,1-Dichloroethane	ND	0.5	0.1
2-Butanone	ND	10	0.5
cis-1,2-Dichloroethene	ND	0.5	0.1
2,2-Dichloropropane	ND	0.5	0.08
Chloroform	ND	0.5	0.08
Bromochloromethane	ND	0.5	0.1
1,1,1-Trichloroethane	ND	0.5	0.09
1,1-Dichloropropene	ND	0.5	0.1
Carbon Tetrachloride	ND	0.5	0.09
1,2-Dichloroethane	ND	0.5	0.1
Benzene	ND	0.5	0.08
Trichloroethene	ND	0.5	0.2
1,2-Dichloropropane	ND	0.5	0.07
Bromodichloromethane	ND	0.5	0.1
Dibromomethane	ND	0.5	0.2
4-Methyl-2-Pentanone	ND	10	0.1
cis-1,3-Dichloropropene	ND	0.5	0.09
Toluene	ND	0.5	0.09
trans-1,3-Dichloropropene	ND	0.5	0.1
1,1,2-Trichloroethane	ND	0.5	0.2
2-Hexanone	ND	10	0.2
1,3-Dichloropropane	ND	0.5	0.1
Tetrachloroethene	ND	0.5	0.1
Dibromochloromethane	ND	0.5	0.1
1,2-Dibromoethane	ND	0.5	0.2
Chlorobenzene	ND	0.5	0.2
1,1,1,2-Tetrachloroethane	ND	0.5	0.2
Ethylbenzene	ND	0.5	0.1
m,p-Xylenes	ND	0.5	0.3
o-Xylene	ND	0.5	0.2
Styrene	ND	0.5	0.1
Bromoform	ND	1.0	0.06
Isopropylbenzene	ND	0.5	0.2
1,1,2,2-Tetrachloroethane	ND	0.5	0.2
1,2,3-Trichloropropane	ND	0.5	0.3
Propylbenzene	ND	0.5	0.2
Bromobenzene	ND	0.5	0.2
1,3,5-Trimethylbenzene	ND	0.5	0.2
2-Chlorotoluene	ND	0.5	0.2
4-Chlorotoluene	ND	0.5	0.2

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC267565	Batch#:	95343
Matrix:	Water	Analyzed:	10/11/04
Units:	ug/L		

Analyte	Result	RL	MDL
tert-Butylbenzene	ND	0.5	0.2
1,2,4-Trimethylbenzene	ND	0.5	0.1
sec-Butylbenzene	ND	0.5	0.2
para-Isopropyl Toluene	ND	0.5	0.2
1,3-Dichlorobenzene	ND	0.5	0.2
1,4-Dichlorobenzene	ND	0.5	0.2
n-Butylbenzene	ND	0.5	0.2
1,2-Dichlorobenzene	ND	0.5	0.2
1,2-Dibromo-3-Chloropropane	ND	0.5	0.3
1,2,4-Trichlorobenzene	ND	0.5	0.3
Hexachlorobutadiene	ND	0.5	0.2
Naphthalene	ND	0.5	0.3
1,2,3-Trichlorobenzene	ND	0.5	0.3

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	103	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-122

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175141	Location:	BBDA4
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	95343
Units:	ug/L	Analyzed:	10/11/04
Diln Fac:	1.000		

Type: BS Lab ID: QC267563

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	24.30	97	75-120
Benzene	25.00	24.38	98	79-120
Trichloroethene	25.00	24.79	99	79-120
Toluene	25.00	25.17	101	80-120
Chlorobenzene	25.00	25.11	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-120
1,2-Dichloroethane-d4	103	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-122

Type: BSD Lab ID: QC267564

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	23.67	95	75-120	3	20
Benzene	25.00	24.67	99	79-120	1	20
Trichloroethene	25.00	24.74	99	79-120	0	20
Toluene	25.00	25.56	102	80-120	2	20
Chlorobenzene	25.00	24.96	100	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	103	80-120
Toluene-d8	103	80-120
Bromofluorobenzene	99	80-122

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\091404.b\HIE08.D

8260-ICAL

Date : 14-SEP-2004 15:30

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

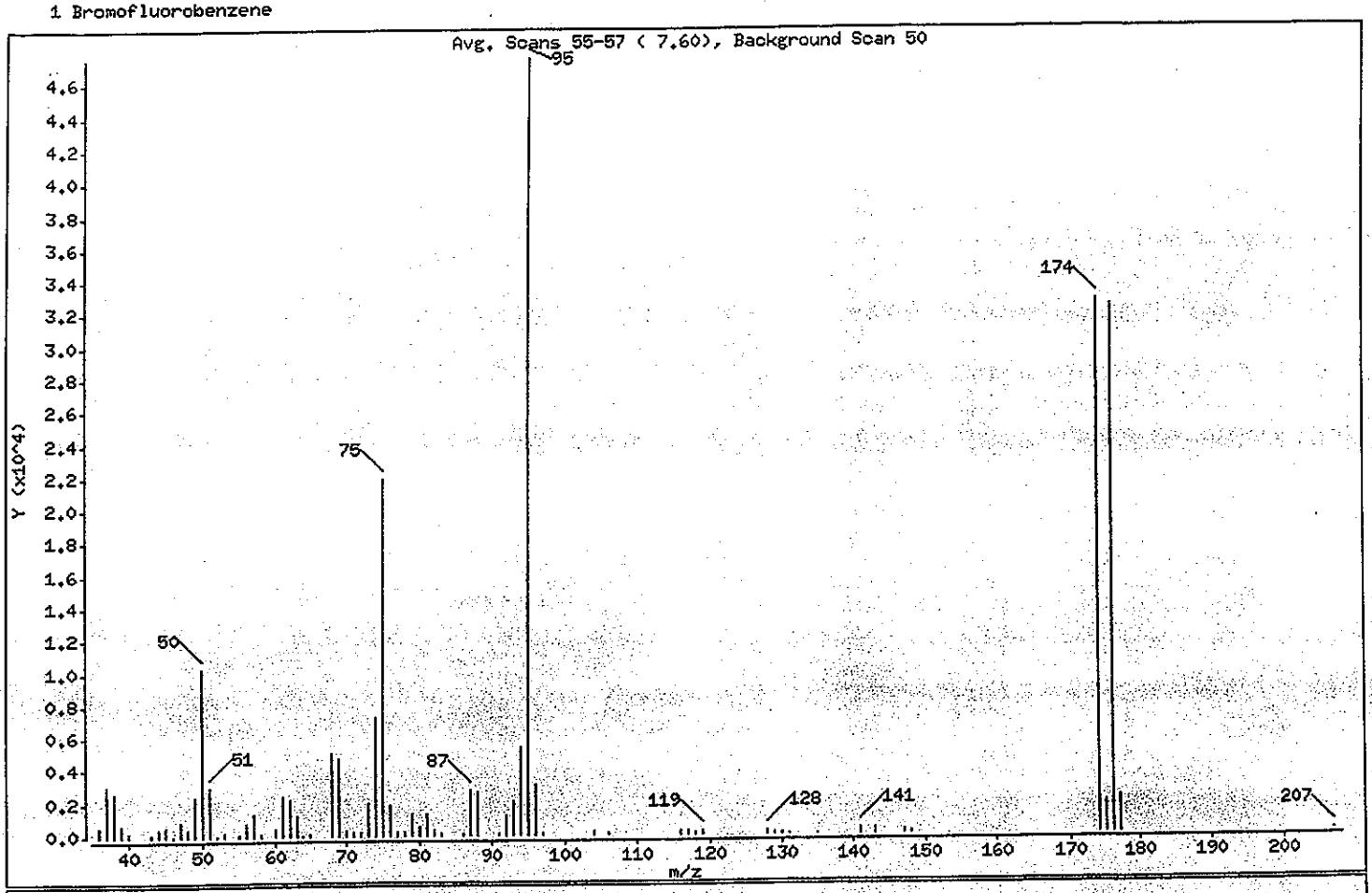
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.66
75	30.00 - 60.00% of mass 95	45.95
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	68.81
175	5.00 - 9.00% of mass 174	3.91 (5.68)
176	95.01 - 100.99% of mass 174	67.96 (98.77)
177	5.00 - 9.00% of mass 176	4.57 (6.73)

09/15/04

LW 9-15-04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB02.D

Date : 11-OCT-2004 10:00

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

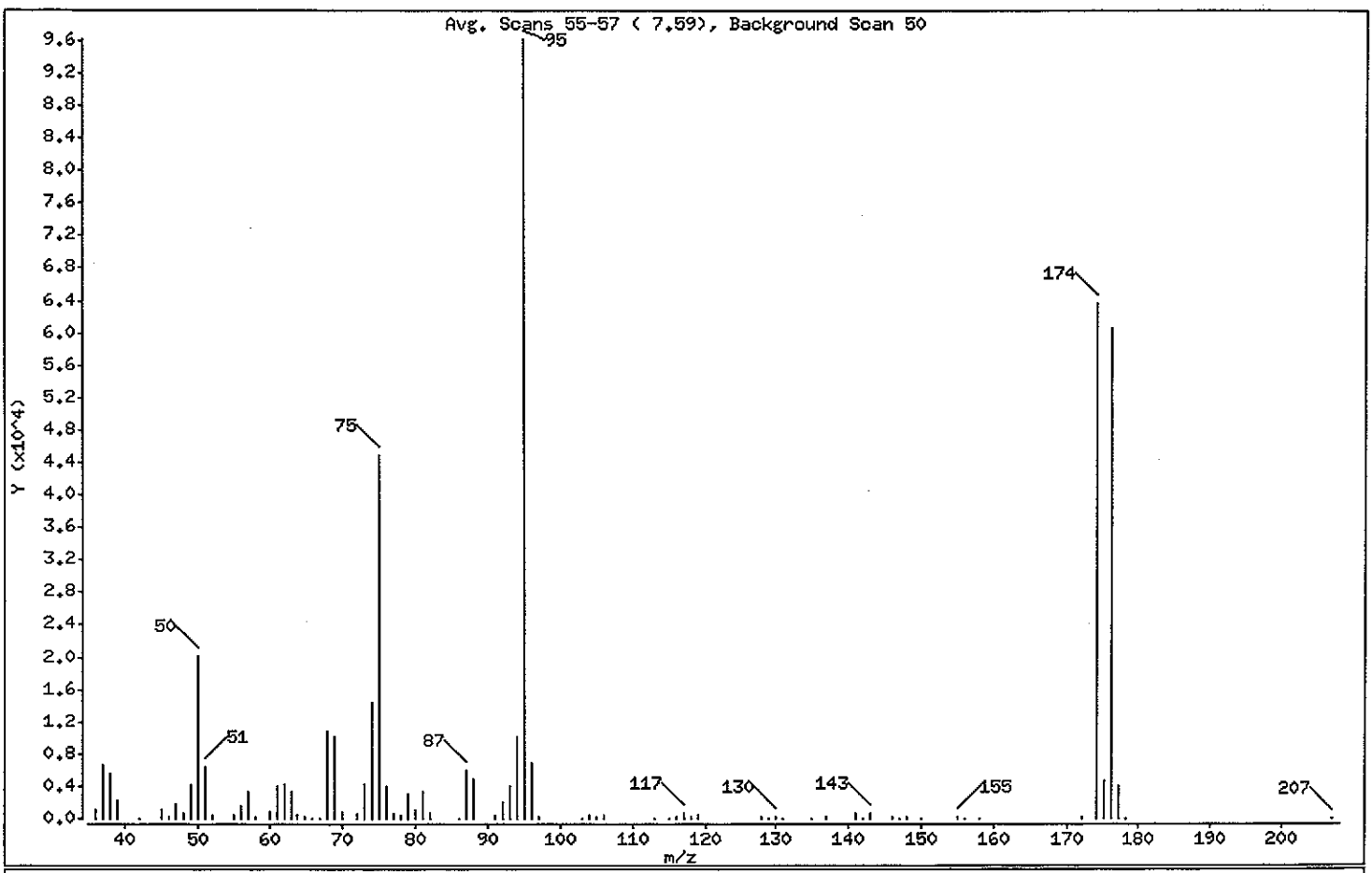
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.90
75	30.00 - 60.00% of mass 95	46.58
96	5.00 - 9.00% of mass 95	7.12
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	66.22
175	5.00 - 9.00% of mass 174	4.91 (7.42)
176	95.01 - 100.99% of mass 174	63.02 (95.18)
177	5.00 - 9.00% of mass 176	4.12 (6.53)

10/12/04

LW 10-11-04

8260 ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Manual Integrations are for splitting

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	hie11	474372175011	1.0/0.5 PPB	14-SEP-2004 17:11	04SS331 (500000X), 04WS1422E (500000X), 04WS1715A (1000000X), 04WS1453C (5000X)
2	hie12	474372175012	5 PPB	14-SEP-2004 17:47	04SS331 (100000X), 04WS1422E (50000X), 04WS1715A (200000X), 04WS1453C (5000X)
3	hie13	474372175013	10 PPB	14-SEP-2004 18:23	04SS331 (50000X), 04WS1422E (25000X), 04WS1715A (100000X), 04WS1453C (5000X)
4	hie14	474372175014	20 PPB	14-SEP-2004 18:59	04SS331 (25000X), 04WS1422E (12500X), 04WS1715A (50000X), 04WS1453C (5000X)
5	hie15	474372175015	50 PPB	14-SEP-2004 19:35	04SS331 (10000X), 04WS1422E (5000X), 04WS1715A (20000X), 04WS1453C (5000X)
6	hie16	474372175016	75 PPB	14-SEP-2004 20:12	04SS331 (6667X), 04WS1422E (3333X), 04WS1715A (13333X), 04WS1453C (5000X)
7	hie17	474372175017	100 PPB	14-SEP-2004 20:48	04SS331 (5000X), 04WS1422E (2500X), 04WS1715A (10000X), 04WS1453C (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4578	0.4232	0.4493	0.4397	0.4224	0.4372	0.4353	AVRG	R		2.283820		ug/L	0.4379	3	0.0500	0.99	15	
Chloromethane	0.4161	0.4677	0.4318	0.4244	0.4172	0.4280	0.4155	AVRG	R		2.332771		ug/L	0.4287	4	0.1000	0.99	15	
Vinyl Chloride	0.2965	0.3146	0.3015	0.3044	0.2794	0.2849	0.2784	AVRG	R		3.398561		ug/L	0.2942	5	0.0500	0.99	15	
Bromomethane	0.1483	0.1533	0.1692	0.1814	0.1946	0.2163		AVRG	R		5.643466		ug/L	0.1772	15	0.0500	0.99	15	
Chloroethane	0.1791	0.1976	0.1937	0.1891	0.1866	0.1936	0.1864	AVRG	R		5.278693		ug/L	0.1894	3	0.0500	0.99	15	
Trichlorofluoromethane	0.5127	0.4919	0.5154	0.5149	0.5059	0.5135	0.5164	AVRG	R		1.960390		ug/L	0.5101	2	0.0500	0.99	15	
Acetone		0.2178	0.1481	0.1445	0.1491	0.1523		LINR	R	-0.44153	6.663410		ug/L	0.1624	0.998	0.0500	0.99	15	
Freon 113	0.3591	0.2728	0.2989	0.2833	0.2862	0.2962	0.2971	AVRG	R		3.343482		ug/L	0.2991	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3131	0.2901	0.3040	0.2914	0.2896	0.2941	0.2938	AVRG	R		3.371720		ug/L	0.2966	3	0.0500	0.99	15	
Methylene Chloride		0.4282	0.3904	0.3766	0.3739	0.3672	0.3712	AVRG	R		2.600248		ug/L	0.3846	6	0.0500	0.99	15	
Carbon Disulfide	1.2036	1.1669	1.1533	1.1227	1.1227	1.1241	1.1456	AVRG	R		0.870775		ug/L	1.1484	3	0.0500	0.99	15	
MTBE	0.8012	0.8837	0.8138	0.8256	0.8140	0.8051	0.8265	AVRG	R		1.213180		ug/L	0.8243	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.3615	0.3580	0.3353	0.3231	0.3252	0.3222	0.3317	AVRG	R		2.969970		ug/L	0.3367	5	0.0500	0.99	15	
Vinyl Acetate	1.0732	1.0151	0.9125	0.9224	0.8903	0.8853	0.8874	AVRG	R		1.062833		ug/L	0.9409	8	0.0500	0.99	15	
1,1-Dichloroethane	0.6204	0.6659	0.6141	0.6099	0.6000	0.5911	0.5910	AVRG	R		1.630768		ug/L	0.6132	4	0.1000	0.99	15	
2-Butanone		0.2519	0.2088	0.2041	0.1962	0.1967	0.1824	AVRG	R		4.838185		ug/L	0.2067	12	0.0500	0.99	15	
2,2-Dichloropropane	0.4639	0.4500	0.4473	0.4224	0.4195	0.4217	0.4254	AVRG	R		2.294948		ug/L	0.4357	4	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.3277	0.3768	0.3522	0.3423	0.3421	0.3417	0.3409	AVRG	R		2.888269		ug/L	0.3462	4	0.0500	0.99	15	

ICAL OK except 2-clere Failed and did not meet min RF ICV OK CUSACE Freon 12, Chloromethane

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

LW 9-15-04

09/15/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.5918	0.6264	0.5846	0.5826	0.5802	0.5678	0.5826	AVRG	R		1.700656		ug/L	0.5880	3	0.0500	0.99	15	
Bromochloromethane	0.1631	0.1738	0.1681	0.1650	0.1695	0.1661	0.1691	AVRG	R		5.959235		ug/L	0.1678	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.4074	0.4400	0.4316	0.4208	0.4255	0.4286	0.4368	AVRG	R		2.340623		ug/L	0.4272	3	0.0500	0.99	15	
1,1-Dichloropropene	0.2926	0.2570	0.2624	0.2530	0.2557	0.2556	0.2592	AVRG	R		3.813686		ug/L	0.2622	5	0.0500	0.99	15	
Carbon Tetrachloride	0.2076	0.1976	0.2047	0.2005	0.2046	0.2089	0.2103	AVRG	R		4.880711		ug/L	0.2049	2	0.0500	0.99	15	
1,2-Dichloroethane	0.2494	0.2876	0.2646	0.2616	0.2649	0.2572	0.2631	AVRG	R		3.787093		ug/L	0.2641	4	0.0500	0.99	15	
Benzene	0.8221	0.8000	0.7346	0.7157	0.7232	0.7156	0.7153	AVRG	R		1.339325		ug/L	0.7466	6	0.0500	0.99	15	
Trichloroethene	0.1931	0.1961	0.1865	0.1772	0.1821	0.1797	0.1814	AVRG	R		5.400411		ug/L	0.1852	4	0.0500	0.99	15	
1,2-Dichloropropane	0.1988	0.2091	0.1912	0.1925	0.1966	0.1901	0.1912	AVRG	R		5.111756		ug/L	0.1956	3	0.0500	0.99	15	
Bromodichloromethane	0.2704	0.2749	0.2566	0.2546	0.2573	0.2545	0.2570	AVRG	R		3.835302		ug/L	0.2607	3	0.0500	0.99	15	
Dibromomethane	0.1507	0.1580	0.1472	0.1471	0.1475	0.1437	0.1466	AVRG	R		6.726260		ug/L	0.1487	3	0.0500	0.99	15	
2-Chloroethylvinylether			3.1E-4	3.0E-4m	3.3E-4	3.4E-4m	2.8E-4	AVRG	R		3200.680		ug/L	3.1E-4	8	0.0500	0.99	15	irf ***
4-Methyl-2-Pentanone		0.2687	0.2376	0.2474	0.2295	0.2288	0.2280	AVRG	R		4.166635		ug/L	0.2400	7	0.0500	0.99	15	
Tetrahydrofuran	0.5980	0.5094	0.4794	0.4713	0.4607	0.4528	0.4547	AVRG	R		2.043063		ug/L	0.4895	11	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.3230	0.3369	0.3092	0.3123	0.3116	0.3091	0.3091	AVRG	R		3.165771		ug/L	0.3159	3	0.0500	0.99	15	
Toluene	0.4291	0.4477	0.4262	0.4121	0.4107	0.4113	0.4100	AVRG	R		2.375258		ug/L	0.4210	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.2749	0.2959	0.2779	0.2745	0.2838	0.2782	0.2794	AVRG	R		3.563041		ug/L	0.2807	3	0.0500	0.99	15	
1,1,2-Trichloroethane	0.0976	0.1186	0.0997	0.0994	0.1044	0.1022	0.1033	AVRG	R		9.650696		ug/L	0.1036	7	0.0500	0.99	15	
2-Hexanone		0.2340	0.1949	0.2041	0.1964	0.1961	0.1898	AVRG	R		4.936653		ug/L	0.2026	8	0.0500	0.99	15	
1,3-Dichloropropane	0.3475	0.3861	0.3573	0.3596	0.3588	0.3529	0.3420	AVRG	R		2.795335		ug/L	0.3577	4	0.0500	0.99	15	
Tetrachloroethene	0.1804	0.1898	0.1938	0.1843	0.1893	0.1902	0.1867	AVRG	R		5.324905		ug/L	0.1878	2	0.0500	0.99	15	
Dibromochloromethane	0.2093	0.2439	0.2327	0.2279	0.2321	0.2306	0.2299	AVRG	R		4.357680		ug/L	0.2295	4	0.0500	0.99	15	
1,2-Dibromoethane	0.1897	0.2031	0.1904	0.1925	0.1901	0.1865	0.1888	AVRG	R		5.219081		ug/L	0.1916	3	0.0500	0.99	15	
Chlorobenzene	0.5713	0.6046	0.5704	0.5706	0.5546	0.5507	0.5488	AVRG	R		1.762829		ug/L	0.5673	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.1802	0.1979	0.1906	0.1851	0.1899	0.1875	0.1900	AVRG	R		5.298756		ug/L	0.1887	3	0.0500	0.99	15	
Ethylbenzene	0.9731	1.0360	0.9919	0.9603	0.9807	0.9799	0.9645	AVRG	R		1.016491		ug/L	0.9838	3	0.0500	0.99	15	
m,p-Xylenes	0.3406	0.3823	0.3636	0.3477	0.3497	0.3408	0.3319	AVRG	R		2.849415		ug/L	0.3509	5	0.0500	0.99	15	
o-Xylene	0.3539	0.3726	0.3592	0.3455	0.3430	0.3315	0.3270	AVRG	R		2.877512		ug/L	0.3475	5	0.0500	0.99	15	
Styrene	0.6016	0.6460	0.6121	0.6000	0.5965	0.5769	0.5697	AVRG	R		1.665608		ug/L	0.6004	4	0.0500	0.99	15	
Bromoform	0.2008	0.1793	0.1603	0.1601	0.1613	0.1612	0.1624	AVRG	R		5.904960		ug/L	0.1693	9	0.1000	0.99	15	
Isopropylbenzene	1.8431	1.9822	1.8570	1.8870	1.8667	1.8079	1.8292	AVRG	R		0.535452		ug/L	1.8676	3	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.6175	0.7120	0.6471	0.6776	0.6560	0.6383	0.6403	AVRG	R		1.525464		ug/L	0.6555	5	0.3000	0.99	15	
1,2,3-Trichloropropane	0.2310	0.1768	0.1595	0.1637	0.1598	0.1515	0.1559	LINR	R	-0.65937	6.496474		ug/L	0.1712	0.999	0.0500	0.99	15	
Propylbenzene	2.3723	2.5907	2.4320	2.4427	2.4094	2.3244	2.3164	AVRG	R		0.414495		ug/L	2.4126	4	0.0500	0.99	15	
Bromobenzene	0.4520	0.5010	0.4638	0.4597	0.4681	0.4460	0.4491	AVRG	R		2.160662		ug/L	0.4628	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.5079	1.6238	1.5450	1.5431	1.5400	1.5007	1.4897	AVRG	R		0.651147		ug/L	1.5358	3	0.0500	0.99	15	
2-Chlorotoluene	1.6287	1.7247	1.6394	1.5893	1.5655	1.5262	1.5185	AVRG	R		0.625424		ug/L	1.5989	5	0.0500	0.99	15	
4-Chlorotoluene	1.4676	1.6347	1.4424	1.4646	1.5077	1.4736	1.4496	AVRG	R		0.670489		ug/L	1.4914	4	0.0500	0.99	15	
tert-Butylbenzene	1.3062	1.4369	1.3640m	1.4059	1.3585	1.3642	1.3537	AVRG	R		0.729971		ug/L	1.3699	3	0.0500	0.99	15	
1,2,4-Trimethylbenzene	1.5289	1.7224	1.5669	1.5669	1.5627	1.5399	1.5221	AVRG	R		0.635795		ug/L	1.5728	4	0.0500	0.99	15	
sec-Butylbenzene	2.2267	2.2076	2.1437	2.1005	2.0963	2.0668	2.0689	AVRG	R		0.469471		ug/L	2.1301	3	0.0500	0.99	15	
para-Isopropyl Toluene	1.5622	1.7431	1.6593	1.6488	1.6602	1.6187	1.6245	AVRG	R		0.607810		ug/L	1.6453	3	0.0500	0.99	15	
1,3-Dichlorobenzene	0.8936	0.9687	0.8847	0.8622	0.8708	0.8459	0.8644	AVRG	R		1.130817		ug/L	0.8843	5	0.0500	0.99	15	
1,4-Dichlorobenzene	0.8787	0.9883	0.9005	0.8883	0.9083	0.8838	0.8773	AVRG	R		1.106680		ug/L	0.9036	4	0.0500	0.99	15	
n-Butylbenzene	1.6149	1.7166	1.6681	1.6717	1.6658	1.6308	1.6270	AVRG	R		0.603714		ug/L	1.6564	2	0.0500	0.99	15	
1,2-Dichlorobenzene	0.8292	0.9182	0.8464	0.8528	0.8392	0.8242	0.8309	AVRG	R		1.178285		ug/L	0.8487	4	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1142m	0.1235	0.1084	0.1138	0.1072	0.1055	0.1065	AVRG	R		8.983715		ug/L	0.1113	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.5203	0.5626	0.5239	0.5439	0.5403	0.5277	0.5378	AVRG	R		1.863494		ug/L	0.5366	3	0.0500	0.99	15	
Hexachlorobutadiene	0.2030	0.2118	0.2180	0.2151	0.2135	0.2174	0.2225	AVRG	R		4.662283		ug/L	0.2145	3	0.0500	0.99	15	
Naphthalene	1.0888	1.3360	1.2562	1.3762	1.4356	1.3759	1.4424	AVRG	R		0.751792		ug/L	1.3302	9	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.5130	0.5648	0.5228	0.5362	0.5353	0.5283	0.5309	AVRG	R		1.876054		ug/L	0.5330	3	0.0500	0.99	15	
Dibromofluoromethane	0.6060	0.6161	0.6039	0.6052	0.6039	0.6096	0.6134	AVRG	R		1.643906		ug/L	0.6083	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4070	0.3999	0.3972	0.3984	0.3923	0.3936	0.4040	AVRG	R		2.506887		ug/L	0.3989	1	0.0500	0.99	15	
Trifluorotoluene	0.2466	0.2556	0.2601	0.2488	0.2538	0.2529	0.2580	AVRG	R		3.941859		ug/L	0.2537	2	0.0500	0.99	15	
Toluene-d8	1.0020	0.9920	0.9922	0.9855	0.9751	0.9873	0.9875	AVRG	R		1.011318		ug/L	0.9888	1	0.0500	0.99	15	
Bromofluorobenzene	1.1576	1.1733	1.1553	1.1695	1.1602	1.1664	1.1479	AVRG	R		0.860994		ug/L	1.1614	1	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175018 Filename : hie18 Injected : 14-SEP-2004 21:24
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1541 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	36.81200	ug/L	-26	30	!v-
Chloromethane	50.00000	37.78070	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	40.70280	ug/L	-19	20	
Bromomethane	50.00000	53.40110	ug/L	7	30	
Chloroethane	50.00000	44.96540	ug/L	-10	30	
Trichlorofluoromethane	50.00000	48.26010	ug/L	-3	30	
Dibromofluoromethane	50.00000	48.91830	ug/L	-2	30	
1,2-Dichloroethane-d4	50.00000	48.85870	ug/L	-2	30	
Toluene-d8	50.00000	52.32620	ug/L	5	30	
Bromofluorobenzene	50.00000	49.76170	ug/L	0	30	

ISTD (ICAL-hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2538256	8.23	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4346886	7.55	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3487400	6.00	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1640381	5.93	19.34	19.34	0.00

LW 9-15-04

09/15/04

!=warning -=low bias v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175019 Filename : hie19 Injected : 14-SEP-2004 22:01
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	60.25130	ug/L	21	40	
Freon 113	50.00000	52.16000	ug/L	4	30	
1,1-Dichloroethene	50.00000	45.62080	ug/L	-9	20	
Methylene Chloride	50.00000	48.00290	ug/L	-4	30	
Carbon Disulfide	50.00000	42.50020	ug/L	-15	30	
MTBE	50.00000	54.70120	ug/L	9	30	
trans-1,2-Dichloroethene	50.00000	47.35270	ug/L	-5	30	
Vinyl Acetate	50.00000	41.53400	ug/L	-17	40	
1,1-Dichloroethane	50.00000	49.14810	ug/L	-2	30	
2-Butanone	50.00000	51.21330	ug/L	2	40	
2,2-Dichloropropane	50.00000	45.84170	ug/L	-8	30	
cis-1,2-Dichloroethene	50.00000	50.17280	ug/L	0	30	
Chloroform	50.00000	48.81910	ug/L	-2	20	
Bromochloromethane	50.00000	50.09810	ug/L	0	30	
1,1,1-Trichloroethane	50.00000	50.71680	ug/L	1	30	
1,1-Dichloropropene	50.00000	46.59160	ug/L	-7	30	
Carbon Tetrachloride	50.00000	50.00650	ug/L	0	30	
1,2-Dichloroethane	50.00000	49.23660	ug/L	-2	30	
Benzene	50.00000	48.14280	ug/L	-4	30	
Trichloroethene	50.00000	49.05030	ug/L	-2	30	
1,2-Dichloropropane	50.00000	48.72520	ug/L	-3	20	
Bromodichloromethane	50.00000	50.93940	ug/L	2	30	
Dibromomethane	50.00000	49.29190	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	53.36300	ug/L	7	40	m
4-Methyl-2-Pentanone	50.00000	47.61960	ug/L	-5	40	
Tetramethyl THF	50.00000	46.25830	ug/L	-7	30	
cis-1,3-Dichloropropene	50.00000	49.05400	ug/L	-2	30	
Toluene	50.00000	49.17120	ug/L	-2	20	
trans-1,3-Dichloropropene	50.00000	46.64990	ug/L	-7	30	
1,1,2-Trichloroethane	50.00000	50.46680	ug/L	1	30	
2-Hexanone	50.00000	50.88010	ug/L	2	40	
1,3-Dichloropropane	50.00000	50.01910	ug/L	0	30	
Tetrachloroethene	50.00000	49.41550	ug/L	-1	30	
Dibromochloromethane	50.00000	51.08630	ug/L	2	30	
1,2-Dibromoethane	50.00000	50.20010	ug/L	0	30	
Chlorobenzene	50.00000	48.66860	ug/L	-3	30	
1,1,1,2-Tetrachloroethane	50.00000	51.13880	ug/L	2	30	
Ethylbenzene	50.00000	50.20740	ug/L	0	20	
m,p-Xylenes	100.0000	98.19230	ug/L	-2	30	
o-Xylene	50.00000	48.63240	ug/L	-3	30	
Styrene	50.00000	50.03350	ug/L	0	30	
Bromoform	50.00000	49.23880	ug/L	-2	30	
Isopropylbenzene	50.00000	45.05810	ug/L	-10	30	
1,1,2,2-Tetrachloroethane	50.00000	50.61820	ug/L	1	30	
1,2,3-Trichloropropane	50.00000	52.73700	ug/L	5	30	
Propylbenzene	50.00000	49.02090	ug/L	-2	30	
Bromobenzene	50.00000	50.86910	ug/L	2	30	

m=manual integration
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175019 Filename : hie19 Injected : 14-SEP-2004 22:01
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	49.75170	ug/L	0	30	
2-Chlorotoluene	50.00000	49.20140	ug/L	-2	30	
4-Chlorotoluene	50.00000	48.50520	ug/L	-3	30	
tert-Butylbenzene	50.00000	50.02040	ug/L	0	30	
1,2,4-Trimethylbenzene	50.00000	50.44110	ug/L	1	30	
sec-Butylbenzene	50.00000	48.61160	ug/L	-3	30	
para-Isopropyl Toluene	50.00000	47.97740	ug/L	-4	30	
1,3-Dichlorobenzene	50.00000	48.47920	ug/L	-3	30	
1,4-Dichlorobenzene	50.00000	49.74920	ug/L	-1	30	
n-Butylbenzene	50.00000	50.67410	ug/L	1	30	
1,2-Dichlorobenzene	50.00000	50.30820	ug/L	1	30	
1,2-Dibromo-3-Chloropropane	50.00000	51.82510	ug/L	4	30	
1,2,4-Trichlorobenzene	50.00000	51.15440	ug/L	2	30	
Hexachlorobutadiene	50.00000	51.71210	ug/L	3	30	
Naphthalene	50.00000	59.42570	ug/L	19	30	
1,2,3-Trichlorobenzene	50.00000	52.06140	ug/L	4	30	
Dibromofluoromethane	50.00000	49.85050	ug/L	0	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	49.56910	ug/L	-1	30	(NOT USED)
Toluene-d8	50.00000	48.85450	ug/L	-2	30	(NOT USED)
Bromofluorobenzene	50.00000	49.60330	ug/L	-1	30	(NOT USED)

ISTD (ICAL-hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2465873	5.14	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4309516	6.62	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3490304	6.09	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1667147	7.66	19.34	19.34	0.00

LW 9-15-04

09/15/04

m=manual integration
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474410970003 Filename : hjb03 Injected : 11-OCT-2004 10:46
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (6667X), 04SS352 (12500X), 04WS1715 (25000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4379	0.5572	40.00000	50.90100	ug/L	27	30	0.0500	!c+
Chloromethane	0.4287	0.4892	40.00000	45.65200	ug/L	14	30	0.1000	
Vinyl Chloride	0.2942	0.3226	40.00000	43.86120	ug/L	10	20	0.0500	
Bromomethane	0.1772	0.1443	40.00000	32.57000	ug/L	-19	30	0.0500	
Chloroethane	0.1894	0.2104	40.00000	44.41910	ug/L	11	30	0.0500	
Trichlorofluoromethane	0.5101	0.6017	40.00000	47.18020	ug/L	18	30	0.0500	
Acetone	0.1624	0.1876	37.50000	46.42910	ug/L	24	40	0.0500	
Freon 113	0.2991	0.2878	37.50000	36.08310	ug/L	-4	30	0.0500	
1,1-Dichloroethene	0.2966	0.2731	37.50000	34.53530	ug/L	-8	20	0.0500	
Methylene Chloride	0.3846	0.3739	37.50000	36.46050	ug/L	-3	30	0.0500	
Carbon Disulfide	1.1484	1.0795	37.50000	35.24860	ug/L	-6	30	0.0500	
MTBE	0.8243	0.6964	37.50000	31.68390	ug/L	-16	30	0.0500	
trans-1,2-Dichloroethene	0.3367	0.3211	37.50000	35.75950	ug/L	-5	30	0.0500	
Vinyl Acetate	0.9409	0.8680	37.50000	34.59530	ug/L	-8	40	0.0500	
1,1-Dichloroethane	0.6132	0.6211	37.50000	37.98490	ug/L	1	30	0.1000	
2-Butanone	0.2067	0.2058	37.50000	37.33030	ug/L	0	40	0.0500	
2,2-Dichloropropane	0.4357	0.4428	37.50000	38.10760	ug/L	2	30	0.0500	
cis-1,2-Dichloroethene	0.3462	0.3425	37.50000	37.10130	ug/L	-1	30	0.0500	
Chloroform	0.5880	0.5998	37.50000	38.25160	ug/L	2	20	0.0500	
Bromochloromethane	0.1678	0.1740	37.50000	38.87980	ug/L	4	30	0.0500	
1,1,1-Trichloroethane	0.4272	0.4330	37.50000	38.00870	ug/L	1	30	0.0500	
1,1-Dichloropropene	0.2622	0.2400	37.50000	34.32570	ug/L	-8	30	0.0500	
Carbon Tetrachloride	0.2049	0.2009	37.50000	36.76750	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.2641	0.2608	37.50000	37.04180	ug/L	-1	30	0.0500	
Benzene	0.7466	0.6839	37.50000	34.35100	ug/L	-8	30	0.0500	
Trichloroethene	0.1852	0.1732	37.50000	35.07740	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.1956	0.1860	37.50000	35.64510	ug/L	-5	20	0.0500	
Bromodichloromethane	0.2607	0.2492	37.50000	35.83430	ug/L	-4	30	0.0500	
Dibromomethane	0.1487	0.1447	37.50000	36.50970	ug/L	-3	30	0.0500	
2-Chloroethylvinylether	3.1E-4	**1.9E-4**	40.00000	23.75360	ug/L	**-41**	40	0.0500	! c- cr
4-Methyl-2-Pentanone	0.2400	0.2117	37.50000	33.07250	ug/L	-12	40	0.0500	
Tetramethyl THF	0.4895	0.4804	37.50000	36.80310	ug/L	-2	30	0.0500	
cis-1,3-Dichloropropene	0.3159	0.2992	37.50000	35.52280	ug/L	-5	30	0.0500	
Toluene	0.4210	0.3982	37.50000	35.47150	ug/L	-5	20	0.0500	
trans-1,3-Dichloropropene	0.2807	0.2674	37.50000	35.72590	ug/L	-5	30	0.0500	
1,1,2-Trichloroethane	0.1036	0.0980	37.50000	35.46200	ug/L	-5	30	0.0500	
2-Hexanone	0.2026	0.1916	37.50000	35.47230	ug/L	-5	40	0.0500	
1,3-Dichloropropane	0.3577	0.3450	37.50000	36.16210	ug/L	-4	30	0.0500	
Tetrachloroethene	0.1878	0.1732	37.50000	34.58310	ug/L	-8	30	0.0500	
Dibromochloromethane	0.2295	0.2165	37.50000	35.38670	ug/L	-6	30	0.0500	
1,2-Dibromoethane	0.1916	0.1832	37.50000	35.85890	ug/L	-4	30	0.0500	
Chlorobenzene	0.5673	0.5303	37.50000	35.05440	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1887	0.1783	37.50000	35.42920	ug/L	-6	30	0.0500	
Ethylbenzene	0.9838	0.9330	37.50000	35.56290	ug/L	-5	20	0.0500	
m,p-Xylenes	0.3509	0.3364	75.00000	71.89300	ug/L	-4	30	0.0500	
o-Xylene	0.3475	0.3273	37.50000	35.31810	ug/L	-6	30	0.0500	

!=calc err +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474410970003 Filename : hjb03 Injected : 11-OCT-2004 10:46
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (6667X), 04SS3S2 (12500X), 04WS1715 (25000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.6004	0.5620	37.50000	35.10110	ug/L	-6	30	0.0500	
Bromoform	0.1693	0.1445	37.50000	31.99480	ug/L	-15	30	0.1000	
Isopropylbenzene	1.8676	1.7606	37.50000	35.35110	ug/L	-6	30	0.0500	
1,1,2,2-Tetrachloroethane	0.6555	0.6483	37.50000	37.08820	ug/L	-1	30	0.3000	
1,2,3-Trichloropropane	0.1712	0.1524	37.50000	36.46020	ug/L	-3	30	0.0500	
Propylbenzene	2.4126	2.2895	37.50000	35.58650	ug/L	-5	30	0.0500	
Bromobenzene	0.4628	0.4416	37.50000	35.77950	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	1.5358	1.4378	37.50000	35.10800	ug/L	-6	30	0.0500	
2-Chlorotoluene	1.5989	1.4969	37.50000	35.10790	ug/L	-6	30	0.0500	
4-Chlorotoluene	1.4914	1.4080	37.50000	35.40290	ug/L	-6	30	0.0500	
tert-Butylbenzene	1.3699	1.2687	37.50000	34.72890	ug/L	-7	30	0.0500	
1,2,4-Trimethylbenzene	1.5728	1.4951	37.50000	35.64650	ug/L	-5	30	0.0500	
sec-Butylbenzene	2.1301	1.9730	37.50000	34.73420	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	1.6453	1.5296	37.50000	34.86500	ug/L	-7	30	0.0500	
1,3-Dichlorobenzene	0.8843	0.8275	37.50000	35.08880	ug/L	-6	30	0.0500	
1,4-Dichlorobenzene	0.9036	0.8614	37.50000	35.74990	ug/L	-5	30	0.0500	
n-Butylbenzene	1.6564	1.5922	37.50000	36.04550	ug/L	-4	30	0.0500	
1,2-Dichlorobenzene	0.8487	0.8103	37.50000	35.80310	ug/L	-5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1113	0.1002	37.50000	33.77170	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	0.5366	0.4830	37.50000	33.75510	ug/L	-10	30	0.0500	
Hexachlorobutadiene	0.2145	0.1777	37.50000	31.06680	ug/L	-17	30	0.0500	
Naphthalene	1.3302	1.2837	37.50000	36.19080	ug/L	-3	30	0.0500	
1,2,3-Trichlorobenzene	0.5330	0.4768	37.50000	33.54220	ug/L	-11	30	0.0500	
Dibromofluoromethane	0.6083	0.6559	50.00000	53.91470	ug/L	8	30	0.0500	
1,2-Dichloroethane-d4	0.3989	0.4209	50.00000	52.75340	ug/L	6	30	0.0500	
Trifluorotoluene	0.2537	0.2300	37.50000	33.99790	ug/L	-9	30	0.0500	
Toluene-d8	0.9888	1.0127	50.00000	51.20880	ug/L	2	30	0.0500	
Bromofluorobenzene	1.1614	1.1677	50.00000	50.27040	ug/L	1	30	0.0500	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2413606	2.91	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4408257	9.07	10.05	10.04	-0.01
Chlorobenzene-d5	3289931	3663050	11.34	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1760208	13.67	19.34	19.34	0.00

LW 10-11-04

10/12/04

!=calc err +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 11-OCT-2004
Sequence: 474410970 (hjb)
Instrument ID: MSVOA08

ICAL Filename: hie15
Date Analyzed: 14-SEP-2004
Time Analyzed: 19:35

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	2345303	8.58	4041778	10.05	3289931	15.04	1548545	19.34
LOWER LIMIT	1172652	8.08	2020889	9.55	1644966	14.54	774273	18.84
UPPER LIMIT	4690606	9.08	8083556	10.55	6579862	15.54	3097090	19.84

TYPE	SAMPLE	#								
CCV	37.5/40 PP	003	2413606	8.58	4408257	10.04	3663050	15.04	1760208	19.34
BS	QC267563	004	2458992	8.58	4534328	10.05	3707590	15.03	1782792	19.33
BSD	QC267564	005	2497962	8.58	4512703	10.05	3712448	15.04	1774338	19.34
BLANK	QC267565	007	2444259	8.58	4440745	10.05	3613504	15.04	1659347	19.34
SAMPLE	175141-008	008	2339317	8.58	4269934	10.05	3437088	15.03	1573015	19.33
SAMPLE	175162-008	009	3327201	8.58	7483422	10.05	6323786	15.03	2624881	19.33
CCV	37.5/40 PP	011	2522087	8.58	4592491	10.05	3702585	15.04	1824369	19.34
BLANK	QC267566	013	2387392	8.58	4310991	10.05	3528308	15.04	1607784	19.33
SAMPLE	175162-001	014	2292529	8.58	4182217	10.04	3391513	15.04	1570345	19.34
SAMPLE	175162-002	015	2336379	8.58	4180662	10.05	3442469	15.04	1560685	19.34
SAMPLE	175162-003	016	2307168	8.58	4137106	10.05	3387079	15.04	1596819	19.33
SAMPLE	175162-004	017	2232498	8.58	4089415	10.05	3304757	15.04	1547752	19.34
SAMPLE	175162-009	018	2228126	8.58	4115973	10.05	3353628	15.04	1550428	19.34
SAMPLE	175162-015	019	2225756	8.58	4077425	10.05	3396339	15.04	1561668	19.33
SAMPLE	175162-016	020	2215433	8.58	4102630	10.05	3347314	15.04	1527721	19.33
SAMPLE	175162-017	021	2225150	8.57	4070197	10.05	3348606	15.04	1544858	19.34
SAMPLE	175162-018	022	2219600	8.57	4074924	10.05	3374416	15.04	1543440	19.34
SAMPLE	175162-033	023	2232910	8.58	4225800	10.05	3431176	15.04	1664289	19.33
SAMPLE	175162-005	024	2812187	8.58	5099332	10.05	4078469	15.04	1964324	19.34
SAMPLE	175162-007	025	3003573	8.58	5374397	10.04	4232848	15.04	1981610	19.34
SAMPLE	175134-001	026	2915148	8.58	5327597	10.05	4195146	15.03	1931798	19.33
SAMPLE	175134-002	027	2915593	8.58	5202224	10.04	4242438	15.04	1957732	19.33
SAMPLE	175134-003	028	2873848	8.58	5142379	10.05	4119532	15.03	1921995	19.33
SAMPLE	175134-004	029	2832495	8.58	5002976	10.04	4046290	15.04	1886157	19.34

10/12/04

8260 ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 474372175 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 14-SEP-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hie01	TUN	BFB			14-SEP-2004 10:55	1.0					1	
002	hie02	TUN	BFB			14-SEP-2004 11:14	1.0					1	
003	hie03	TUN	BFB			14-SEP-2004 11:29	1.0	1				1 t	
004	hie04	TUN	BFB			14-SEP-2004 13:39	1.0					1	
005	hie05	TUN	BFB			14-SEP-2004 13:53	1.0					1	
006	hie06	TUN	BFB			14-SEP-2004 14:06	1.0					1	
007	hie07	X	IB			14-SEP-2004 14:51	1.0					2	
008	hie08	TUN	BFB			14-SEP-2004 15:30	1.0					1	
009	hie09	X	IB			14-SEP-2004 15:58	1.0					2	
010	hie10	X	CALIB IB			14-SEP-2004 16:34	1.0					2	
011	hie11	ICAL	1.0/0.5 PPB			14-SEP-2004 17:11	1.0					3 4 5 2	
012	hie12	ICAL	5 PPB			14-SEP-2004 17:47	1.0					3 4 5 2	
013	hie13	ICAL	10 PPB			14-SEP-2004 18:23	1.0					3 4 5 2	
014	hie14	ICAL	20 PPB			14-SEP-2004 18:59	1.0					3 4 5 2	
015	hie15	ICAL	50 PPB			14-SEP-2004 19:35	1.0					3 4 5 2	
016	hie16	ICAL	75 PPB			14-SEP-2004 20:12	1.0					3 4 5 2	
017	hie17	ICAL	100 PPB			14-SEP-2004 20:48	1.0					3 4 5 2	
018	hie18	ICV				14-SEP-2004 21:24	1.0		5000			6 2	
019	hie19	ICV				14-SEP-2004 22:01	1.0		5000			7 2	
020	hie20	X	IB			14-SEP-2004 22:37	1.0					2	
021	hie21	X	IB			14-SEP-2004 23:14	1.0					2	
022	hie22	X	IB			14-SEP-2004 23:50	1.0					2	

tuning mass spec

ICAL passed except 2-Clene Failed and did not meet min RF
ICV OK LUSACE Freon 12↓, Chloromethane↓)

Stds used: 1=04WS1238 2=04WS1453C 3=04SS331 4=04WS1422E 5=04WS1715A 6=04WS1541 7=04WS1554
Flags used: t=tune failure

Analyst: LW Date: 9-15-04

09/15/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

8

Sequence: 474410970 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 11-OCT-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hjb01	X	IB			11-OCT-2004 09:30	1.0						1	
002	hjb02	TUN	BFB			11-OCT-2004 10:00	1.0						2	
003	hjb03	CCV	37.5/40 PPB			11-OCT-2004 10:46	1.0	1		5000			3 4 5 1	
004	hjb04	BS	QC267563	95343	Water	11-OCT-2004 11:33	1.0	1		5000			6 7 1	
005	hjb05	BSD	QC267564	95343	Water	11-OCT-2004 12:09	1.0	1		5000			6 7 1	
006	hjb06	X	IB			11-OCT-2004 12:45	1.0						1	
007	hjb07	BLANK	QC267565	95343	Water	11-OCT-2004 13:21	1.0	1	1	5000			1	
008	hjb08	SAMPLE	175141-008	95343	Water	11-OCT-2004 13:58	1.0			5000	A	2	1	
009	hjb09	SAMPLE	175162-008	95343	Water	11-OCT-2004 14:49	1.0		1	5000	A	1	1	
010	hjb10	TUN	BFB			11-OCT-2004 15:18	1.0						2	
011	hjb11	CCV	37.5/40 PPB			11-OCT-2004 15:47	1.0	1		5000			3 4 5 1	
012	hjb12	X	IB			11-OCT-2004 16:34	1.0						1	
013	hjb13	BLANK	QC267566	95343	Water	11-OCT-2004 17:10	1.0	1	1	5000			1	
014	hjb14	SAMPLE	175162-001	95343	Water	11-OCT-2004 17:47	1.0			5000	B	2	1	
015	hjb15	SAMPLE	175162-002	95343	Water	11-OCT-2004 18:23	1.0			5000			1	
016	hjb16	SAMPLE	175162-003	95343	Water	11-OCT-2004 18:59	1.0			5000			1	
017	hjb17	SAMPLE	175162-004	95343	Water	11-OCT-2004 19:36	1.0			5000			1	
018	hjb18	SAMPLE	175162-009	95343	Water	11-OCT-2004 20:13	1.0			5000			1	
019	hjb19	SAMPLE	175162-015	95343	Water	11-OCT-2004 20:49	1.0			5000			1	
020	hjb20	SAMPLE	175162-016	95343	Water	11-OCT-2004 21:26	1.0			5000			1	
021	hjb21	SAMPLE	175162-017	95343	Water	11-OCT-2004 22:02	1.0			5000			1	
022	hjb22	SAMPLE	175162-018	95343	Water	11-OCT-2004 22:38	1.0			5000			1	
023	hjb23	SAMPLE	175162-033	95343	Water	11-OCT-2004 23:15	1.0			5000			1	
024	hjb24	SAMPLE	175162-005	95343	Water	11-OCT-2004 23:51	7.143			5000			1	
025	hjb25	SAMPLE	175162-007	95343	Water	12-OCT-2004 00:28	6.25			5000			1	
026	hjb26	SAMPLE	175134-001	95343	Water	12-OCT-2004 01:04	333.3			5000		25	1 PR 125X OD	
027	hjb27	SAMPLE	175134-002	95343	Water	12-OCT-2004 01:40	400.0			5000		5	1 PR 62.5X OD	
028	hjb28	SAMPLE	175134-003	95343	Water	12-OCT-2004 02:17	833.3			5000		4	1 PR 62.5X OD	
029	hjb29	SAMPLE	175134-004	95343	Water	12-OCT-2004 02:53	100.0			5000		2.5	1	
030	hjb30	X	IB			12-OCT-2004 03:30	1.0						1	
031	hjb31-32	X	IB			12-OCT-2004 04:06	1.0	HJB03					1	

10/12/04

ICAL - Good (no2clve) ICV - Good + A.C.E. lim - F12 ↑ cemt CCV - Good + A.C.E. - F12 ↑ , HJB11 - Good + A.2.E. lim - HCBH +

Stds used: 1=04WS1580 2=04WS1238 3=04WS1756 4=04SS352 5=04WS1715 6=04WS1554 7=04WS1726

Analyst: [signature] Date: 10/12/04

Page 1 of 2

10/12/04

REPORTING SUMMARY FOR 175141 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
				C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
				1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	B	C	B	B	P
				2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M			Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	P	1	U	H
											2					2				3						2			2				2		3	2		3																										2	3		2	2			2	3	3			
175141-008	MSVOA08	10/11/04 13:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267563	MSVOA08	10/11/04 11:33	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267564	MSVOA08	10/11/04 12:09	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267565	MSVOA08	10/11/04 13:21	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC267566	MSVOA08	10/11/04 17:10	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 10-11
PREPPED BY. 21A

95343
95341

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	175134 -1		B	2.5			8	333X	
2	-2			5				400X	
3	-3			4				833X	
	-4			2.5				100X	
	175136-3		B	<2			7	1X	
	175137-3			<2			7	50X	
	175141 -8		A		dv			TB	
	175162 -1		B	<2				1X	
	-2							1X	
	-3							1X	
	-4							1X	
	-5			<2				7.14X TCE 409	
	-7							6.25 " 350	
	-8		A	<2				1X TB	
	-9		B					1X	
	-15							1X	
	-16							1X	
	-17							1X	
	-18							1X	
	-33		B				8	1X	
	175173 -1		ABCD	<2			7	MS/MSD 1X	2 left
	-2		A					1X	
	-3			<2				1X	
	-4							1X	
	-5							1X	
	-6			<2				1.42X	
	-7							1X	
	-8			<2				5X	
	-9							2X	
	-10			<2				1X	
	-11			<2				4X	
	-12							1X	
	175057 -1		C					1X	
	-2							1X	
	-3			<2				4X	
	175094-1		A-H					5X comp. 8VOAS	
	175104-1		A-H	<2				1X comp. 8VOAS	
8									
9									
10									
11									
12									

7/21/98

PREPFORM.XLS

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	09/11/04 0.20	03/04/04 0.080	10/12/04 0.083	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	09/11/04 0.031	02/03/04 0.097	10/12/04 0.040	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	09/11/04 0.069	03/04/04 0.15	10/12/04 0.089	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	09/11/04 0.087	03/04/04 0.11	10/12/04 0.074	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	09/11/04 0.031	03/04/04 0.14	10/12/04 0.070	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	09/11/04 0.046	03/04/04 0.21	10/12/04 0.14	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	09/11/04 0.15	02/11/04 0.22	10/12/04 0.22	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	09/11/04 0.12	02/11/04 0.20	10/12/04 0.14	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	09/11/04 0.18	03/04/04 0.21	10/12/04 0.34	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	09/11/04 0.27	02/11/04 0.38	10/12/04 0.36	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	09/11/04 0.090	03/04/04 0.23	10/12/04 0.098	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L	09/15/04 1.0	02/25/04 1.1	10/12/04 0.31	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	09/11/04 0.091	02/03/04 0.14	10/12/04 0.088	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	09/11/04 0.11	03/04/04 0.19	10/12/04 0.19	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	09/11/04 0.074	02/11/04 0.17	10/12/04 0.049	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	09/11/04 0.078	03/04/04 0.13	10/12/04 0.042	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	09/11/04 0.089	03/04/04 0.13	10/12/04 0.18	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	09/11/04 0.069	02/10/04 0.18	10/12/04 0.067	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	09/11/04 0.057	03/04/04 0.17	10/12/04 0.12	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	09/11/04 0.39	02/25/04 0.56	10/12/04 0.27	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	09/11/04 0.13	03/04/04 0.17	10/12/04 0.068	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	09/11/04 0.085	03/04/04 0.14	10/12/04 0.10	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	09/11/04 0.11	03/04/04 0.16	10/12/04 0.046	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	09/11/04 0.18	03/04/04 0.16	10/12/04 0.13	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	09/11/04 0.099	03/04/04 0.10	10/12/04 0.050	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	09/11/04 0.089	02/03/04 0.10	10/12/04 0.098	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	09/11/04 0.10	03/04/04 0.14	10/12/04 0.091	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	09/11/04 0.12	03/04/04 0.16	10/12/04 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	09/11/04 0.093	02/03/04 0.12	10/12/04 0.079	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	09/11/04 0.086	03/04/04 0.12	10/12/04 0.055	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	09/11/04 0.076	03/04/04 0.16	10/12/04 0.066	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	09/11/04 0.16	02/25/04 0.47	10/12/04 0.18	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	09/11/04 0.055	02/03/04 0.12	10/12/04 0.083	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	09/11/04 0.074	03/04/04 0.14	10/12/04 0.070	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	09/11/04 0.051	02/11/04 0.16	10/12/04 0.12	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	09/11/04 0.16	02/11/04 0.14	10/12/04 0.089	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	09/11/04 0.070	03/04/04 0.11	10/12/04 0.068	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	09/11/04 0.13	02/03/04 0.13	10/12/04 0.13	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	09/11/04 0.059	03/04/04 0.18	10/12/04 0.082	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	09/11/04 0.11	03/04/04 0.17	10/12/04 0.086	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	02/11/04 0.33	10/12/04 0.10	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	09/11/04 0.13	03/04/04 0.11	10/12/04 0.084	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	09/11/04 0.055	02/03/04 0.059	10/12/04 0.069	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	09/11/04 0.093	02/03/04 0.10	10/12/04 0.20	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	09/11/04 0.087	02/03/04 0.070	10/12/04 0.096	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	09/11/04 0.092	03/04/04 0.096	10/12/04 0.062	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	09/11/04 0.080	02/11/04 0.16	10/12/04 0.098	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	09/11/04 0.11	03/04/04 0.095	10/12/04 0.060	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	09/11/04 0.036	02/03/04 0.12	10/12/04 0.076	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	09/11/04 0.15	02/25/04 0.38	10/12/04 0.11	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	09/11/04 0.091	03/04/04 0.077	10/12/04 0.062	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	09/11/04 0.14	02/03/04 0.15	10/12/04 0.11	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	09/11/04 0.088	03/04/04 0.13	10/12/04 0.077	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	09/11/04 0.093	02/03/04 0.059	10/12/04 0.099	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	09/11/04 0.12	03/04/04 0.098	10/12/04 0.063	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	09/11/04 0.10	02/03/04 0.049	10/12/04 0.050	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	09/11/04 0.13	03/04/04 0.084	10/12/04 0.096	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	09/11/04 0.061	03/04/04 0.096	10/12/04 0.063	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	09/11/04 0.066	03/04/04 0.12	10/12/04 0.085	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	09/11/04 0.036	03/04/04 0.12	10/12/04 0.068	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	09/11/04 0.12	03/04/04 0.13	10/12/04 0.093	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	09/11/04 0.14	03/04/04 0.087	10/12/04 0.12	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	09/11/04 0.066	03/04/04 0.14	10/12/04 0.078	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	09/11/04 0.37	03/04/04 0.45	10/12/04 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	09/11/04 0.11	02/25/04 0.13	10/12/04 0.21	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	09/11/04 0.21	02/03/04 0.15	10/12/04 0.20	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	09/11/04 0.16	02/11/04 0.12	10/12/04 0.083	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	09/11/04 0.072	02/03/04 0.075	10/12/04 0.11	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	09/11/04 0.71	02/25/04 3.7	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	09/11/04 0.030	02/25/04 0.12	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	09/11/04 0.069	02/25/04 0.057	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	09/11/04 0.090	02/25/04 0.071	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	09/11/04 2.8	03/04/04 23	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0
Ethanol	ug/L	09/11/04 33	02/25/04 35	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L	09/11/04 1.6	03/04/04 12	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	09/11/04 0.24	03/04/04 11	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	09/11/04 0.067	03/04/04 0.096	10/12/04 0.15	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L			10/12/04 1.1	06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA08	Samplenum	: 175141-008	Cident	: TB100704A
Seqnum	: 474410970008	Matrix	: Water	Acctnum	: TREADWELL (SES)
Filename	: hjb08	Batchnum	: 95343	Injected	: 11-OCT-2004 13:58
IDF	: 1.0	PDF	: 1.0	Units	: ug/L
Calnum	: 474372175001	Caldate	: 14-SEP-2004	Caltype	: WATER

Analyte	Result	RTS	RL	B=hjb07	Flags
Freon 12	ND		1.0		
Chloromethane	ND		1.0		
Vinyl Chloride	ND		0.5		
Bromomethane	ND		1.0		
Chloroethane	ND		1.0		
Trichlorofluoromethane	ND		1.0		
Acetone	ND		10	0.40	
Freon 113	ND		5.0		
1,1-Dichloroethene	ND		0.5		
Methylene Chloride	ND		10		
Carbon Disulfide	ND		0.5		
MTBE	ND		0.5		
trans-1,2-Dichloroethene	ND		0.5		
Vinyl Acetate	ND		10		
1,1-Dichloroethane	ND		0.5		
2-Butanone	ND		10		
cis-1,2-Dichloroethene	ND		0.5		
2,2-Dichloropropane	ND		0.5		
Chloroform	ND		0.5		
Bromochloromethane	ND		0.5		
1,1,1-Trichloroethane	ND		0.5		
1,1-Dichloropropene	ND		0.5		
Carbon Tetrachloride	ND		0.5		
1,2-Dichloroethane	ND		0.5		
Benzene	ND		0.5		
Trichloroethene	ND		0.5		
1,2-Dichloropropane	ND		0.5		
Bromodichloromethane	ND		0.5		
Dibromomethane	ND		0.5		
4-Methyl-2-Pentanone	ND		10		
cis-1,3-Dichloropropene	ND		0.5		
Toluene	ND		0.5		
trans-1,3-Dichloropropene	ND		0.5		
1,1,2-Trichloroethane	ND		0.5		
2-Hexanone	ND		10		
1,3-Dichloropropane	ND		0.5		
Tetrachloroethene	ND		0.5		
Dibromochloromethane	ND		0.5		
1,2-Dibromoethane	ND		0.5		
Chlorobenzene	ND		0.5		
1,1,1,2-Tetrachloroethane	ND		0.5		
Ethylbenzene	ND		0.5		
m,p-Xylenes	ND		0.5		

Analyst: LW Date: 10-11-04 Reviewer: [illegible] Date: 10/12/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA08	Samplenum:	175141-008	Cident	: TB100704A
Seqnum	: 474410970008	Matrix	: Water	Acctnum	: TREADWELL (SES)
Filename	: hjb08	Batchnum	: 95343	Injected	: 11-OCT-2004 13:58
IDF	: 1.0	PDF	: 1.0	Units	: ug/L
Calnum	: 474372175001	Caldate	: 14-SEP-2004	Caltype	: WATER

Analyte	Result	RTS	RL	B=hjb07	Flags
o-Xylene	ND		0.5		
Styrene	ND		0.5		
Bromoform	ND		1.0	0.12	
Isopropylbenzene	ND		0.5		
1,1,2,2-Tetrachloroethane	ND		0.5		
1,2,3-Trichloropropane	ND		0.5		
Propylbenzene	ND		0.5		
Bromobenzene	ND		0.5		
1,3,5-Trimethylbenzene	ND		0.5		
2-Chlorotoluene	ND		0.5		
4-Chlorotoluene	ND		0.5		
tert-Butylbenzene	ND		0.5		
1,2,4-Trimethylbenzene	ND		0.5		
sec-Butylbenzene	ND		0.5		
para-Isopropyl Toluene	ND		0.5		
1,3-Dichlorobenzene	ND		0.5		
1,4-Dichlorobenzene	ND		0.5		
n-Butylbenzene	ND		0.5		
1,2-Dichlorobenzene	ND		0.5		
1,2-Dibromo-3-Chloropropane	ND		0.5		
1,2,4-Trichlorobenzene	ND		0.5		
Hexachlorobutadiene	ND		0.5		
Naphthalene	ND		0.5		
1,2,3-Trichlorobenzene	ND		0.5		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	50.00	53.91	108	80-120	
1,2-Dichloroethane-d4	50.00	51.76	104	80-120	
Toluene-d8	50.00	51.25	102	80-120	
Bromofluorobenzene	50.00	50.80	102	80-122	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2339317	-0.26	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4269934	5.64	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3437088	4.47	15.04	15.03	-0.01
1,4-Dichlorobenzene-d4	1548545	1573015	1.58	19.34	19.33	-0.01

Analyst: LW Date: 10-11-04 Reviewer: [illegible] Date: 11/12/04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D
Report Date: 11-Oct-2004 14:57

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 11-OCT-2004 13:58 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : S,175141-008
Misc Info : 95343,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\I8M826W.m
Meth Date : 11-Oct-2004 11:46 tapsvc Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	4.224	4.220	(0.492)	1872	0.22586	0.2258(a)
7 Acetone	43	5.296	5.304	(0.617)	5563	0.35086	0.3508(a)
10 Methylene Chloride	84	6.210	6.212	(0.724)	11068	0.61513	0.6151
16 2-Butanone	43	7.824	7.809	(0.912)	1793	0.18542	0.1854(a)
* 20 Pentafluorobenzene	168	8.581	8.578	(1.000)	2339317	50.0000	
$ 22 Dibromofluoromethane	113	8.669	8.676	(1.010)	1534375	53.9125	53.9125
$ 25 1,2-Dichloroethane-d4	65	9.397	9.396	(0.935)	1763331	51.7628	51.7627
* 29 1,4-Difluorobenzene	114	10.046	10.047	(1.000)	4269934	50.0000	
$ 39 Toluene-d8	98	12.515	12.522	(1.246)	4327406	51.2465	51.2465
* 48 Chlorobenzene-d5	117	15.033	15.046	(1.000)	3437088	50.0000	
$ 58 Bromofluorobenzene	95	17.167	17.165	(0.888)	1856056	50.7958	50.7958
* 70 1,4-Dichlorobenzene-d4	152	19.331	19.334	(1.000)	1573015	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D
Report Date: 11-Oct-2004 14:57

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D
Report Date: 11-Oct-2004 14:57

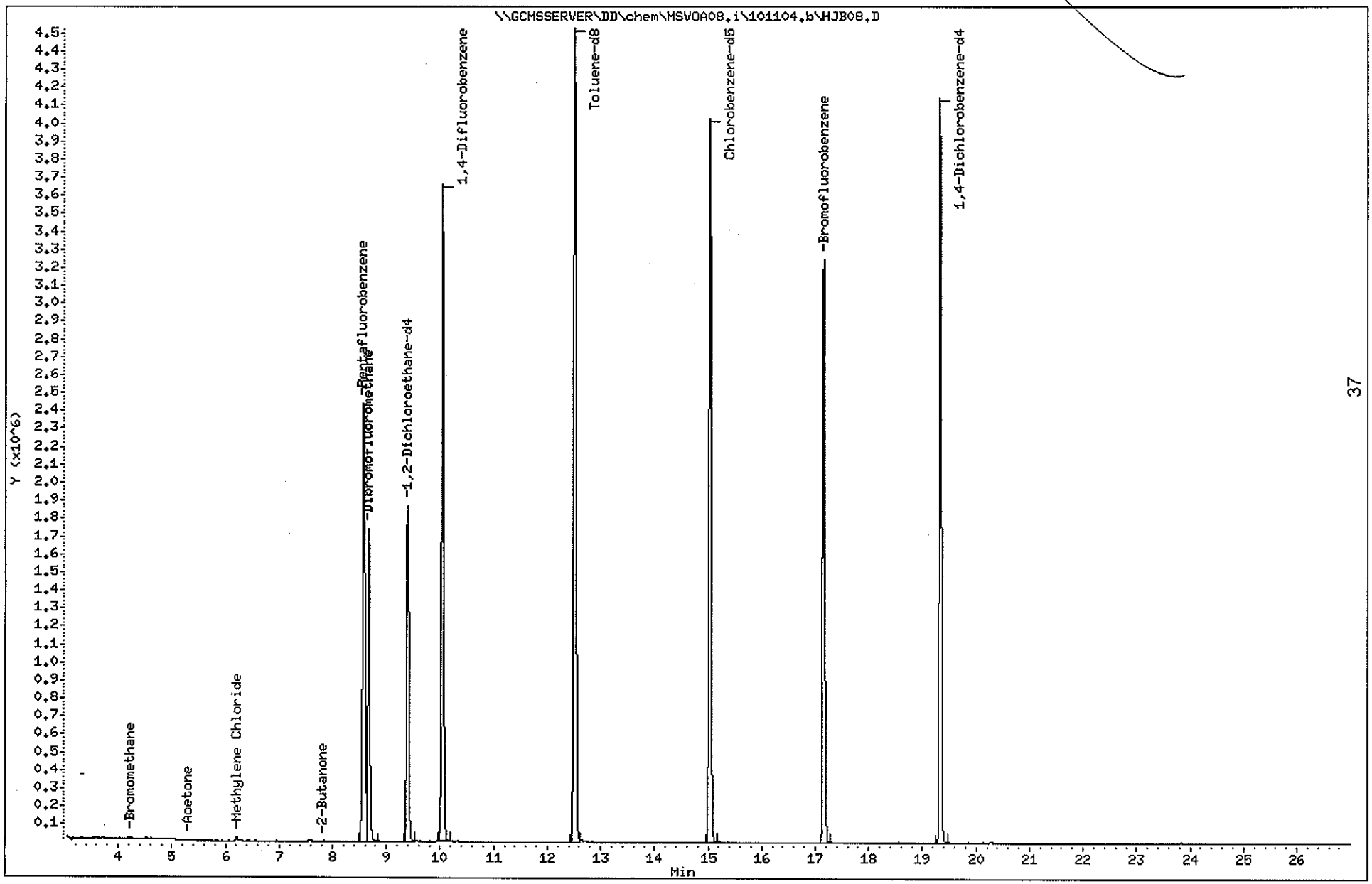
Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 11-OCT-2004 13:58 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : S,175141-008
Misc Info : 95343,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\I8M826W.m
Meth Date : 11-Oct-2004 11:46 tapsvc Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D
Date : 11-OCT-2004 13:58
Client ID: DYNA P&T
Sample Info: S,175141-008
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D

Date : 11-OCT-2004 13:58

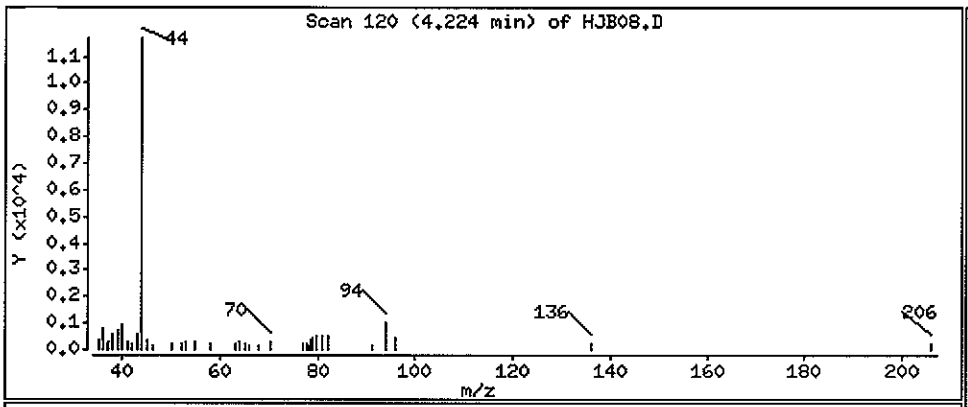
Client ID: DYNA P&T | Instrument: MSVOA08.i

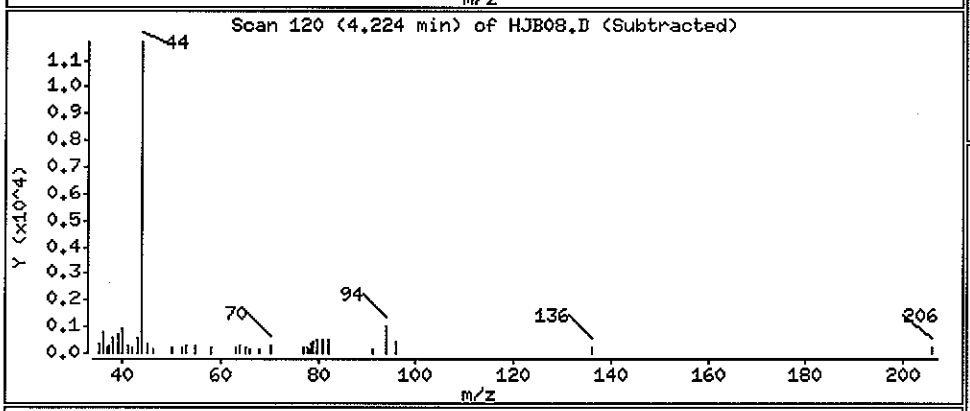
Sample Info: S,175141-008

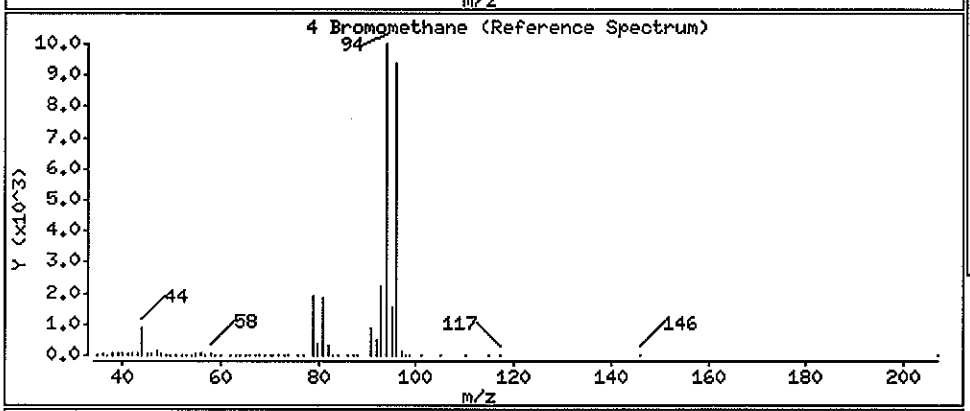
Purge Volume: 5.0 | Operator: LW

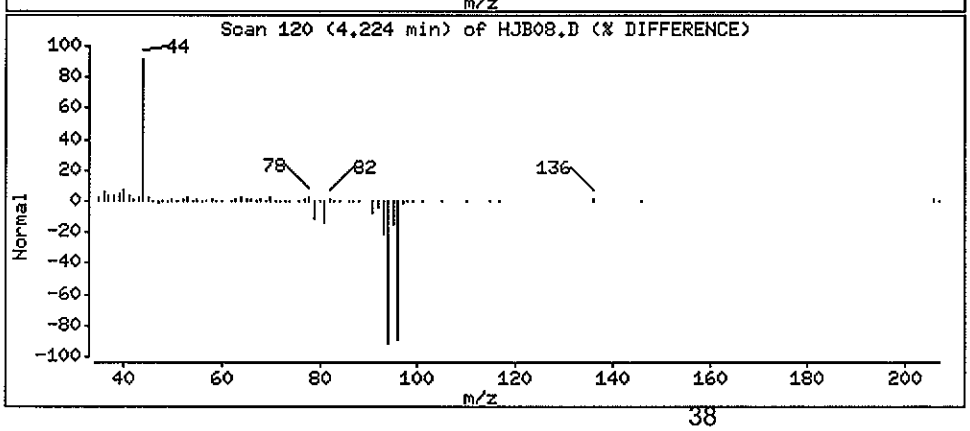
Column phase: RTx Volatiles | Column diameter: 0.32

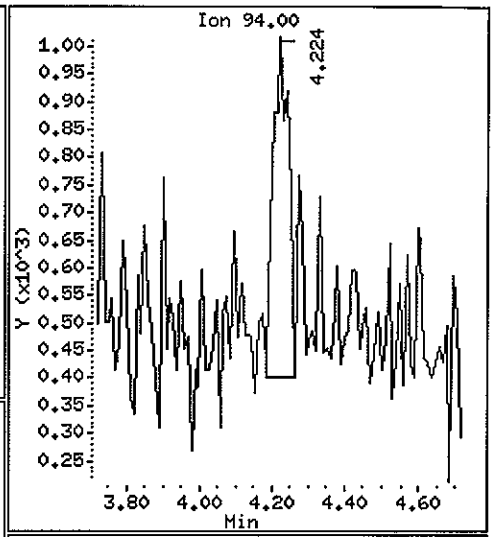
4 Bromomethane | Concentration: 0.2258 UG/L

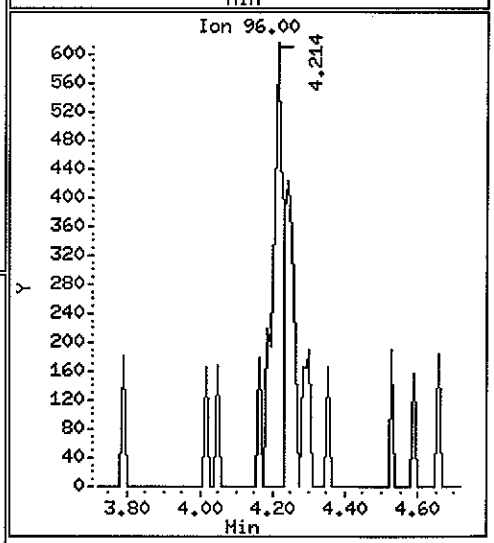












CDL

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D

Date : 11-OCT-2004 13:58

Client ID: DYNA P&T

Instrument: MSVOA08.i

Sample Info: S,175141-008

Purge Volume: 5.0

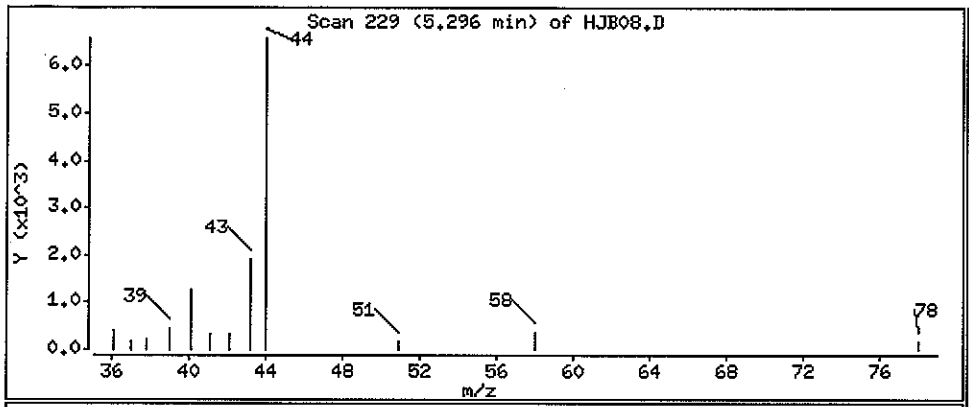
Operator: LW

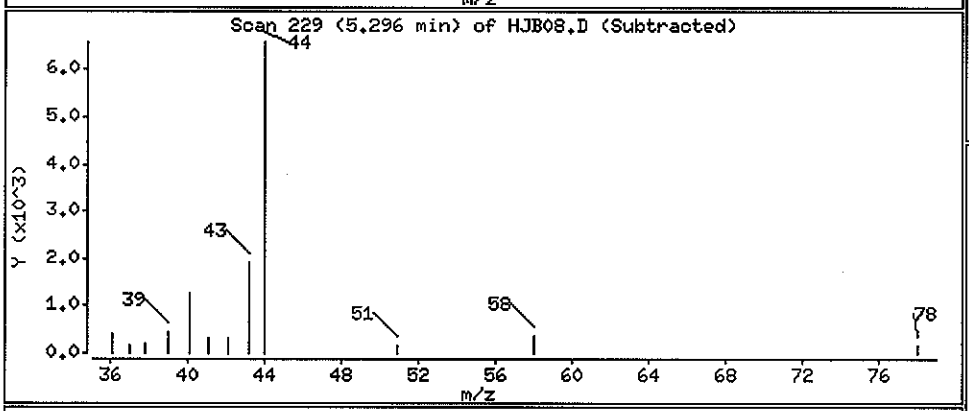
Column phase: RTx Volatiles

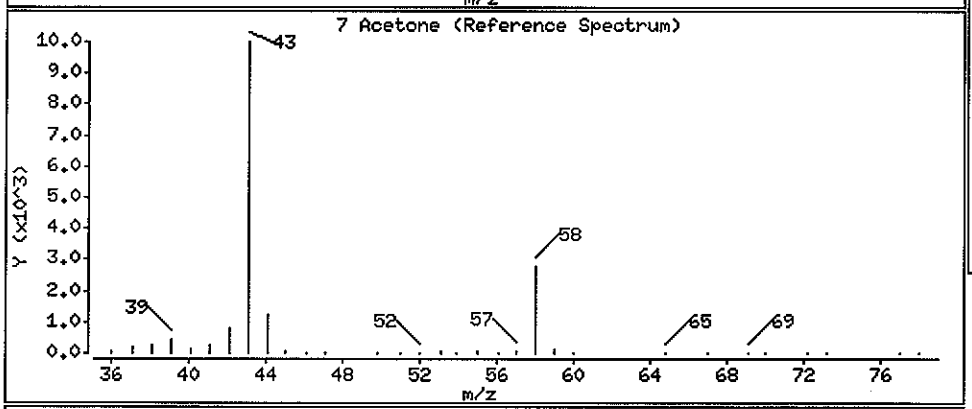
Column diameter: 0.32

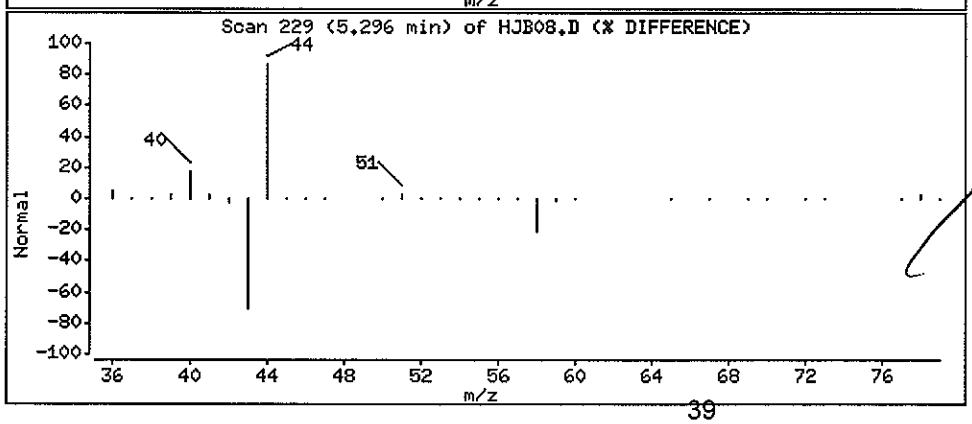
7 Acetone

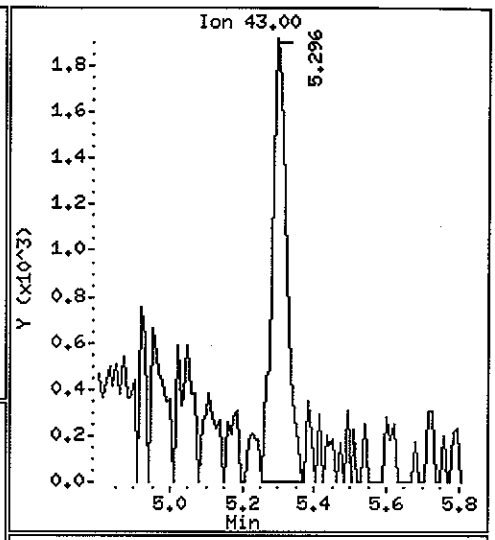
Concentration: 0.3508 UG/L

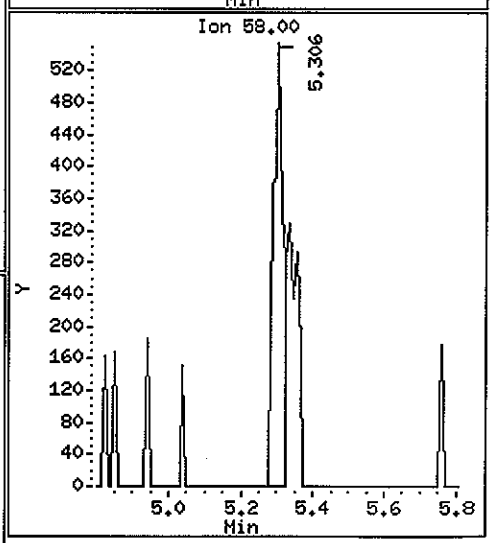












Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D

Date : 11-OCT-2004 13:58

Client ID: DYNA P&T

Instrument: MSVOA08.i

Sample Info: S,175141-008

Purge Volume: 5.0

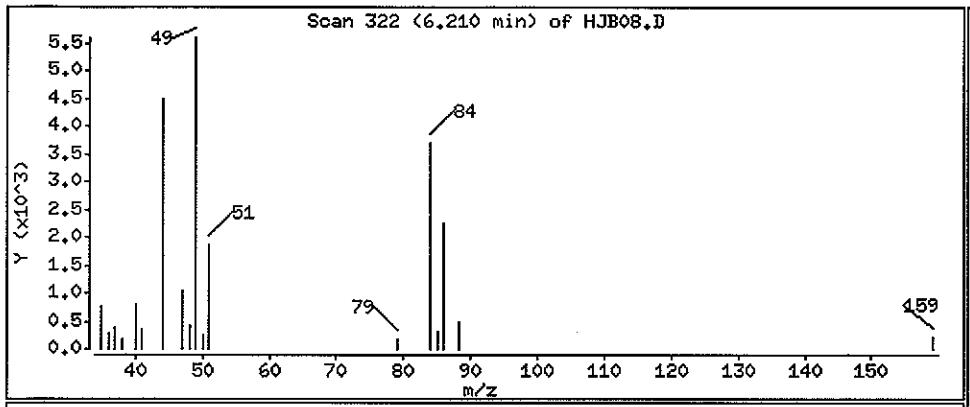
Operator: LW

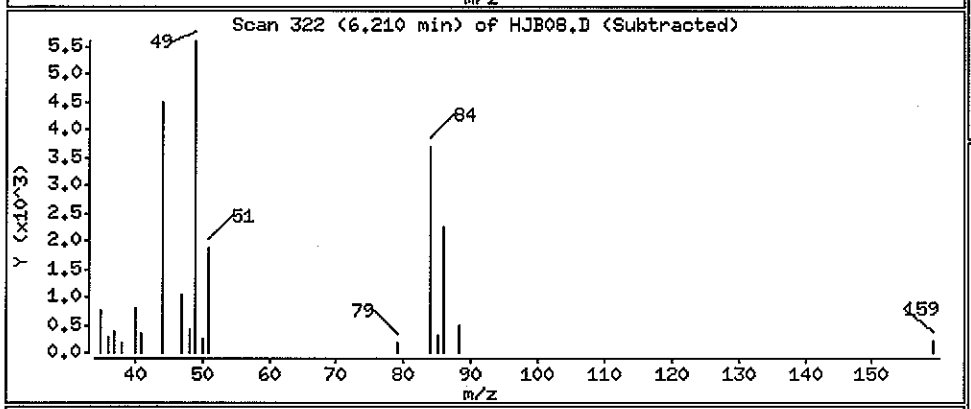
Column phase: RTx Volatiles

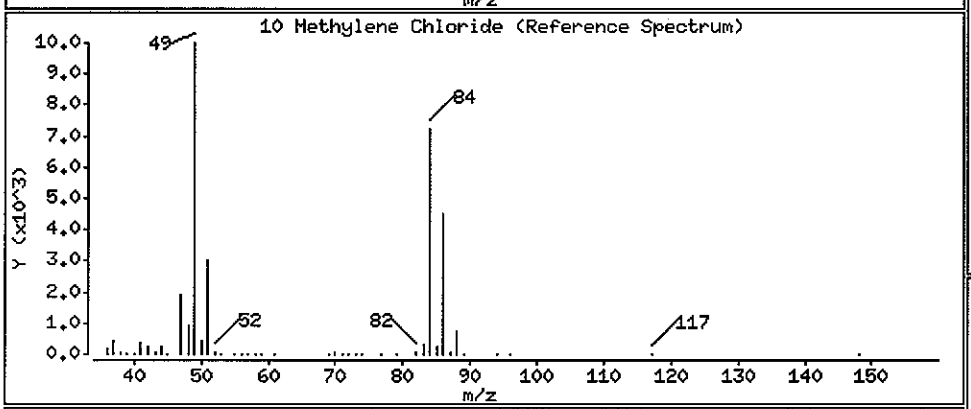
Column diameter: 0.32

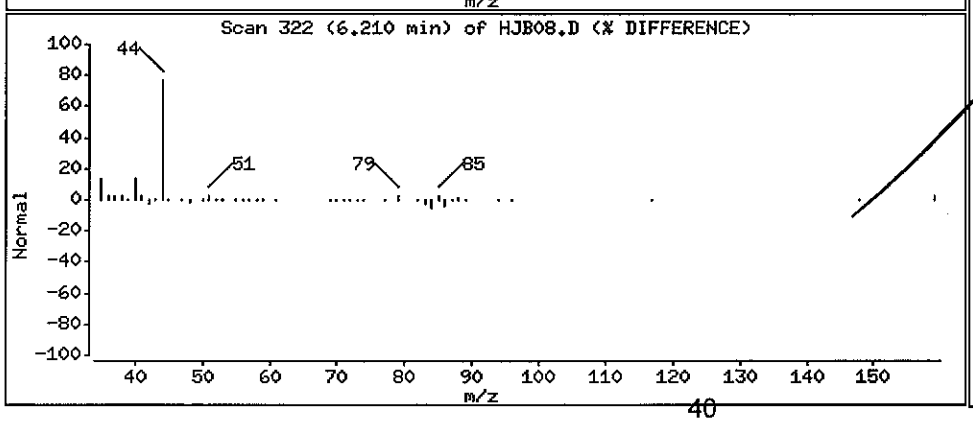
10 Methylene Chloride

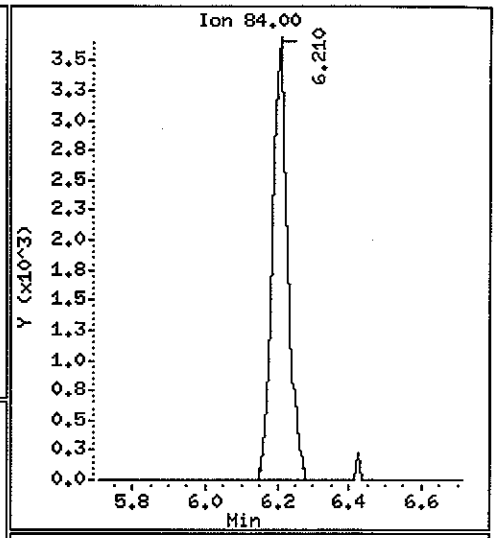
Concentration: 0.6151 UG/L

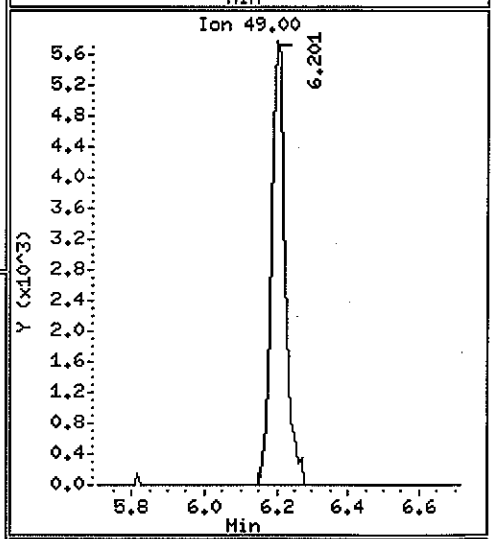


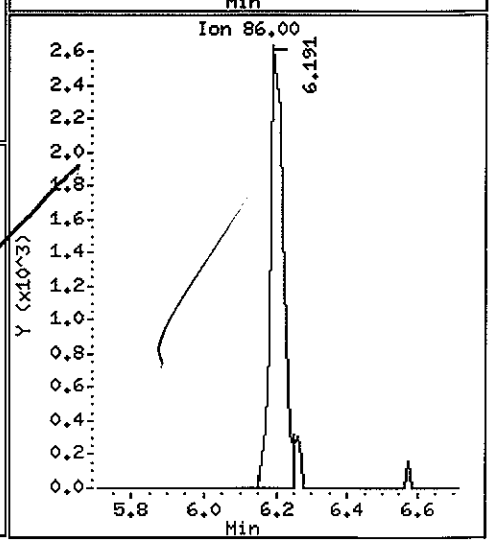












Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB08.D

Date : 11-OCT-2004 13:58

Client ID: DYNA P&T

Instrument: MSVOA08.i

Sample Info: S,175141-008

Purge Volume: 5.0

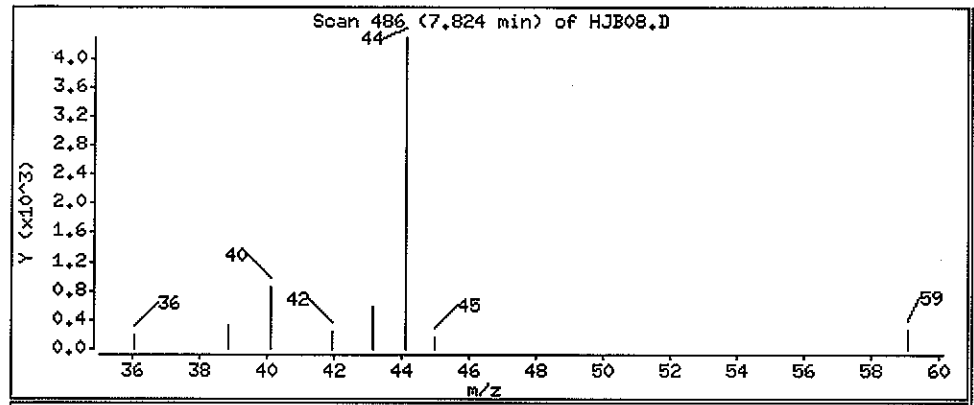
Operator: LW

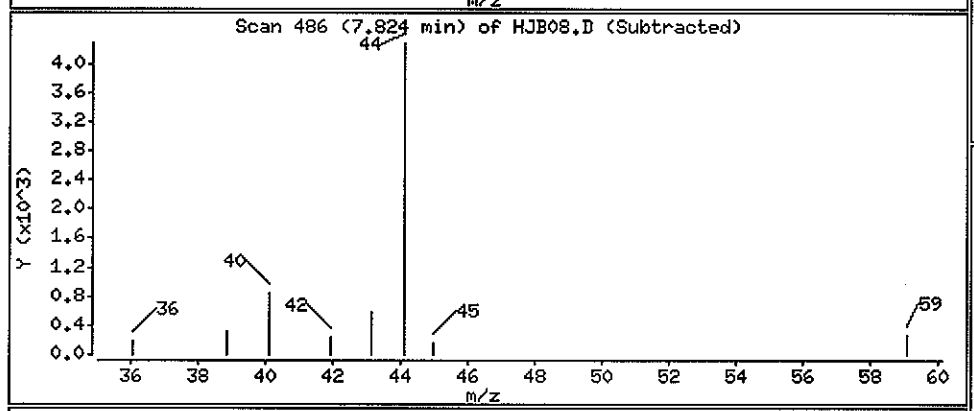
Column phase: RTx Volatiles

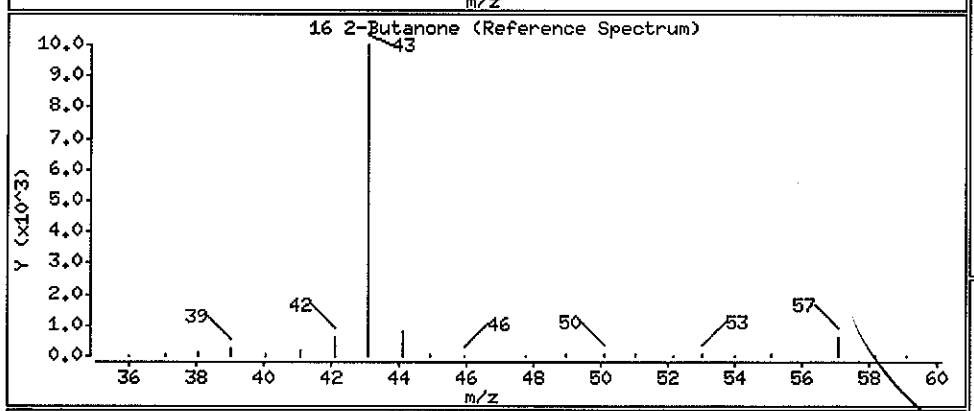
Column diameter: 0.32

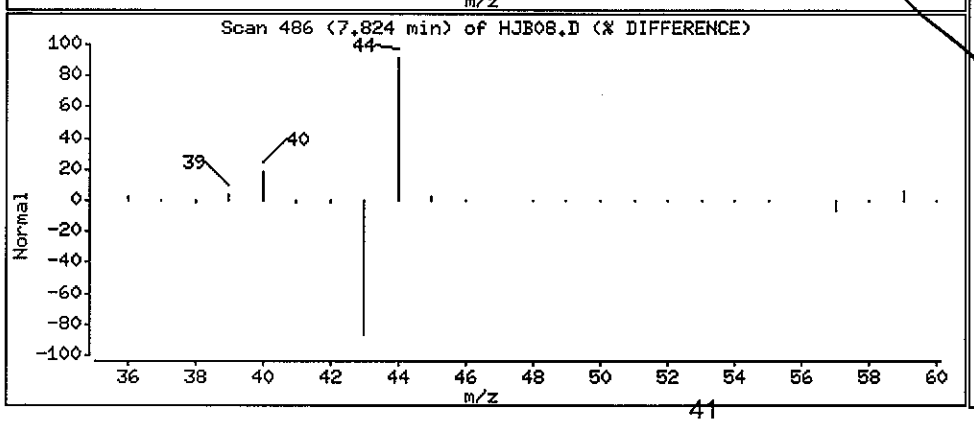
16 2-Butanone

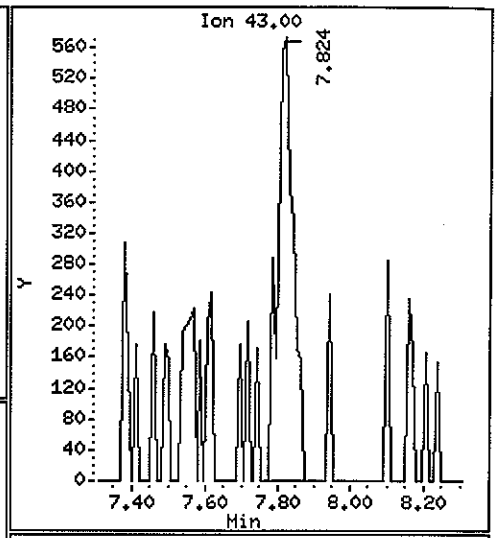
Concentration: 0.1854 UG/L

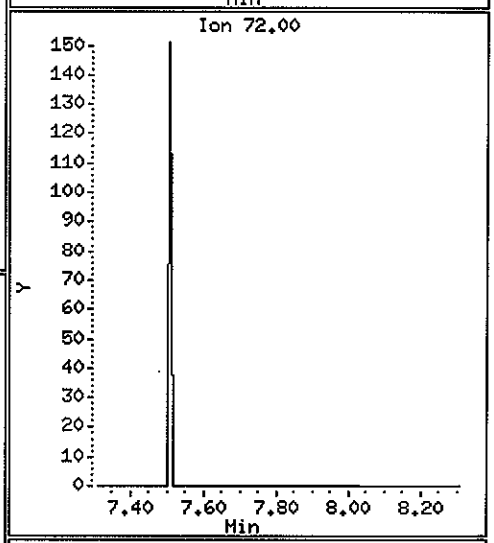


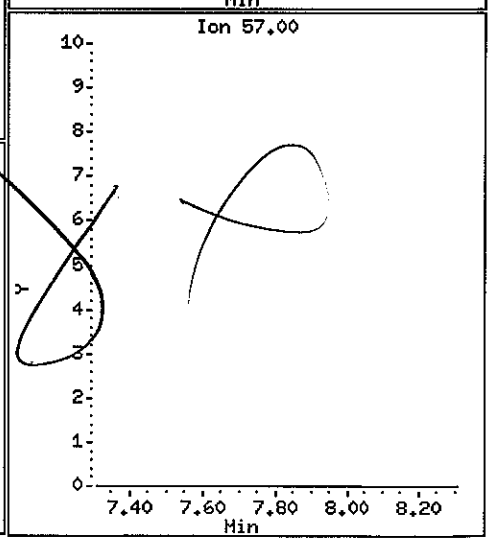












QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA08	Samplenum	: QC267565	Cident	:
Seqnum	: 474410970007	Matrix	: Water	Acctnum	: QC
Filename	: hjb07	Batchnum	: 95343	Injected	: 11-OCT-2004 13:21
IDF	: 1.0	PDF	: 1.0		
Calnum	: 474372175001	Caldate	: 14-SEP-2004	Caltype	: WATER

Analyte	Result	RTS	RL	Units	Flags
1,1-Dichloroethene	ND		0.50	ug/L	
Benzene	ND		0.50	ug/L	
Trichloroethene	ND		0.50	ug/L	
Toluene	ND		0.50	ug/L	
Chlorobenzene	ND		0.50	ug/L	
Freon 12	ND		1.0	ug/L	!c+ !v-
Chloromethane	ND		1.0	ug/L	!v-
Vinyl Chloride	ND		0.50	ug/L	
Bromomethane	ND		1.0	ug/L	
Chloroethane	ND		1.0	ug/L	
Trichlorofluoromethane	ND		1.0	ug/L	
Acetone.....	0.40 J		5.0	ug/L	?curve-
Freon 113	ND		0.50	ug/L	
Methylene Chloride	ND		1.0	ug/L	
MTBE	ND		0.50	ug/L	
Carbon Disulfide	ND		0.50	ug/L	
trans-1,2-Dichloroethene	ND		0.50	ug/L	
Vinyl Acetate	ND		10	ug/L	
1,1-Dichloroethane	ND		0.50	ug/L	
2-Butanone	ND		5.0	ug/L	
cis-1,2-Dichloroethene	ND		0.50	ug/L	
2,2-Dichloropropane	ND		0.50	ug/L	
Chloroform	ND		0.50	ug/L	
Bromochloromethane	ND		0.50	ug/L	
1,1,1-Trichloroethane	ND		0.50	ug/L	
1,1-Dichloropropene	ND		0.50	ug/L	
Carbon Tetrachloride	ND		0.50	ug/L	
1,2-Dichloroethane	ND		0.50	ug/L	
1,2-Dichloropropane	ND		0.50	ug/L	
Bromodichloromethane	ND		0.50	ug/L	
Dibromomethane	ND		0.50	ug/L	
4-Methyl-2-Pentanone	ND		5.0	ug/L	
cis-1,3-Dichloropropene	ND		0.50	ug/L	
trans-1,3-Dichloropropene	ND		0.50	ug/L	
1,1,2-Trichloroethane	ND		0.50	ug/L	
2-Hexanone	ND		5.0	ug/L	
1,3-Dichloropropane	ND		0.50	ug/L	
Tetrachloroethene	ND		0.50	ug/L	
Dibromochloromethane	ND		0.50	ug/L	
1,2-Dibromoethane	ND		0.50	ug/L	
2-Chloroethylvinylether	ND		1.0	ug/L	c- crf irf b*
1,1,1,2-Tetrachloroethane	ND		0.50	ug/L	
Ethylbenzene	ND		0.50	ug/L	
m,p-Xylenes	ND		0.50	ug/L	

!=warning +=high bias -=low bias ?curve=check curve b=noncompliant c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure v=ICV

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA08	Samplenum:	QC267565	Cident	:
Seqnum	: 474410970007	Matrix	: Water	Acctnum	: QC
Filename	: hjb07	Batchnum	: 95343	Injected	: 11-OCT-2004 13:21
IDF	: 1.0	PDF	: 1.0		
Calnum	: 474372175001	Caldate	: 14-SEP-2004	Caltype	: WATER

Analyte	Result	RTS	RL	Units	Flags
o-Xylene	ND		0.50	ug/L	
Styrene	ND		0.50	ug/L	
Bromoform	0.12 J		0.50	ug/L	
Isopropylbenzene	ND		0.50	ug/L	
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L	
1,2,3-Trichloropropane	ND		0.50	ug/L	
Propylbenzene	ND		0.50	ug/L	
Bromobenzene	ND		0.50	ug/L	
1,3,5-Trimethylbenzene	ND		0.50	ug/L	
2-Chlorotoluene	ND		0.50	ug/L	
4-Chlorotoluene	ND		0.50	ug/L	
tert-Butylbenzene	ND		0.50	ug/L	
1,2,4-Trimethylbenzene	ND		0.50	ug/L	
sec-Butylbenzene	ND		0.50	ug/L	
para-Isopropyl Toluene	ND		0.50	ug/L	
1,3-Dichlorobenzene	ND		0.50	ug/L	
1,4-Dichlorobenzene	ND		0.50	ug/L	
n-Butylbenzene	ND		0.50	ug/L	
1,2-Dichlorobenzene	ND		0.50	ug/L	
1,2-Dibromo-3-Chloropropane	ND		0.50	ug/L	
1,2,4-Trichlorobenzene	ND		0.50	ug/L	
Hexachlorobutadiene	ND		0.50	ug/L	
Naphthalene	ND		0.50	ug/L	
1,2,3-Trichlorobenzene	ND		0.50	ug/L	
Tetramethyl THF	ND		0.50	ug/L	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Units	Flags
Dibromofluoromethane	50.00	53.35	107	80-120	ug/L	
1,2-Dichloroethane-d4	50.00	51.30	103	80-120	ug/L	
Toluene-d8	50.00	51.13	102	80-120	ug/L	
Bromofluorobenzene	50.00	50.48	101	80-122	ug/L	
Trifluorotoluene	NS	ND	--		ug/ml	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2444259	4.22	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4440745	9.87	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3613504	9.84	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1659347	7.16	19.34	19.34	0.00

10/12/04

LW 10-11-04

!=warning +=high bias -=low bias ?curve=check curve b=noncompliant c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure v=ICV

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D
Report Date: 11-Oct-2004 14:21

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 11-OCT-2004 13:21 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : MB,QC267565
Misc Info : 95343,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\I8M826W.m
Meth Date : 11-Oct-2004 11:46 tapsvc Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	4.234	4.320	(0.494)	1941	0.22412	0.2241(a)
7 Acetone	43	5.318	5.304	(0.619)	6192	0.40253	0.4025(a)
10 Methylene Chloride	84	6.199	6.212	(0.722)	3460	0.18409	0.1840(a)
16 2-Butanone	43	7.828	7.809	(0.913)	1421	0.14070	0.1406(a)
* 20 Pentafluorobenzene	168	8.575	8.578	(1.000)	2444259	50.0000	
$ 22 Dibromofluoromethane	113	8.674	8.676	(1.011)	1586332	53.3450	53.3450
$ 25 1,2-Dichloroethane-d4	65	9.402	9.396	(0.935)	1817372	51.2971	51.2971
* 29 1,4-Difluorobenzene	114	10.051	10.047	(1.000)	4440745	50.0000	
$ 39 Toluene-d8	98	12.519	12.522	(1.246)	4499679	51.1345	51.1344
* 48 Chlorobenzene-d5	117	15.037	15.046	(1.000)	3613504	50.0000	
55 Bromoform	173	16.650	16.653	(1.107)	1470	0.12011	0.1201(a)
$ 58 Bromofluorobenzene	95	17.162	17.165	(0.888)	1944983	50.4601	50.4601
* 70 1,4-Dichlorobenzene-d4	152	19.336	19.334	(1.000)	1659347	50.0000	
76 Hexachlorobutadiene	225	23.349	23.357	(1.208)	879	0.12354	0.1235(a)

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D
Report Date: 11-Oct-2004 14:21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D
Report Date: 11-Oct-2004 14:21

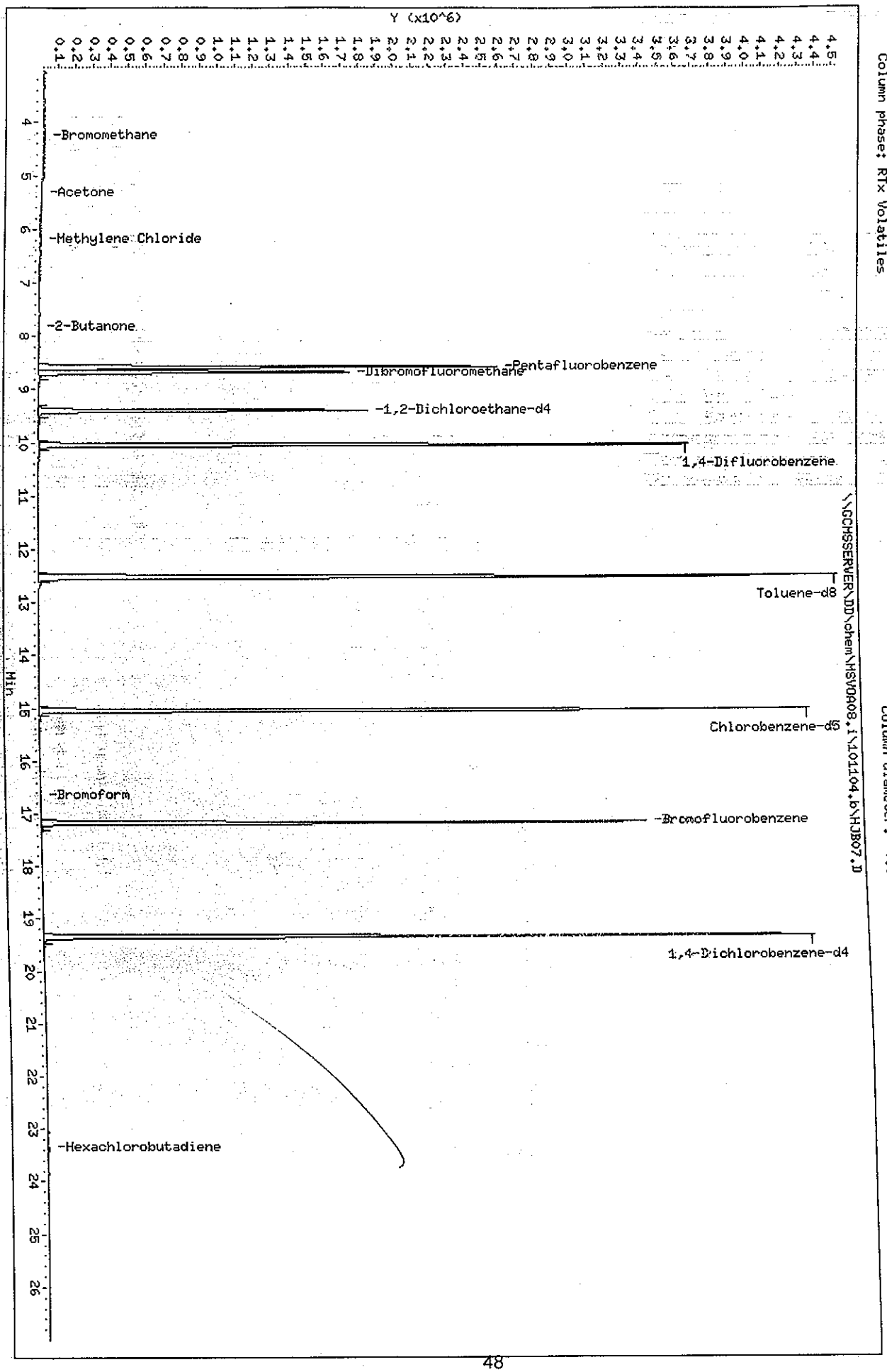
Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 11-OCT-2004 13:21 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : MB,QC267565
Misc Info : 95343,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\I8M826W.m
Meth Date : 11-Oct-2004 11:46 tapsvc Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D
Date : 11-OCT-2004 13:21
Client ID: DYNA P&T
Sample Info: MB,QC267565
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D

Date : 11-OCT-2004 13:21

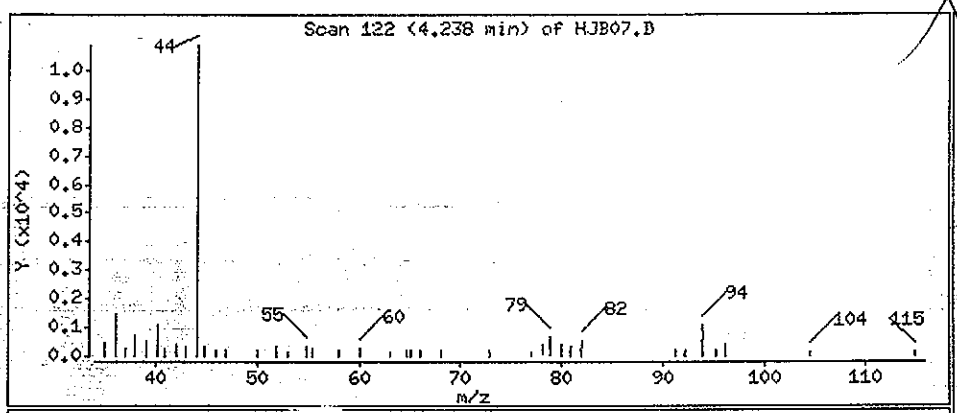
Client ID: DYNA P&T | Instrument: MSVOA08.i

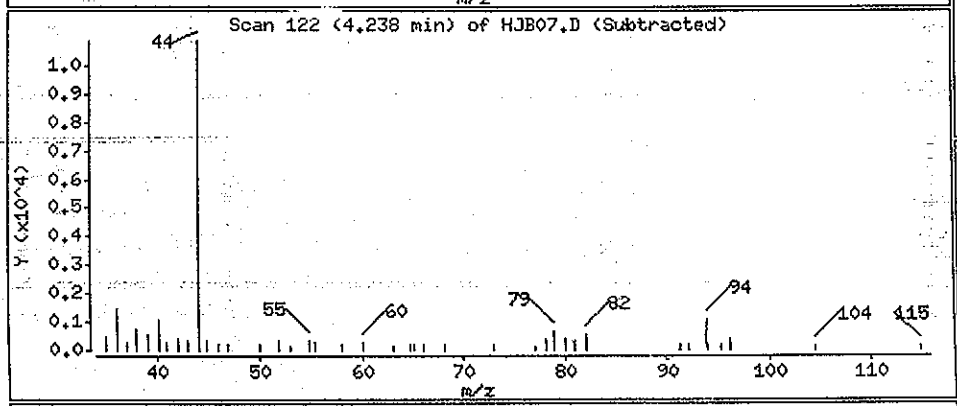
Sample Info: MB,QC267565

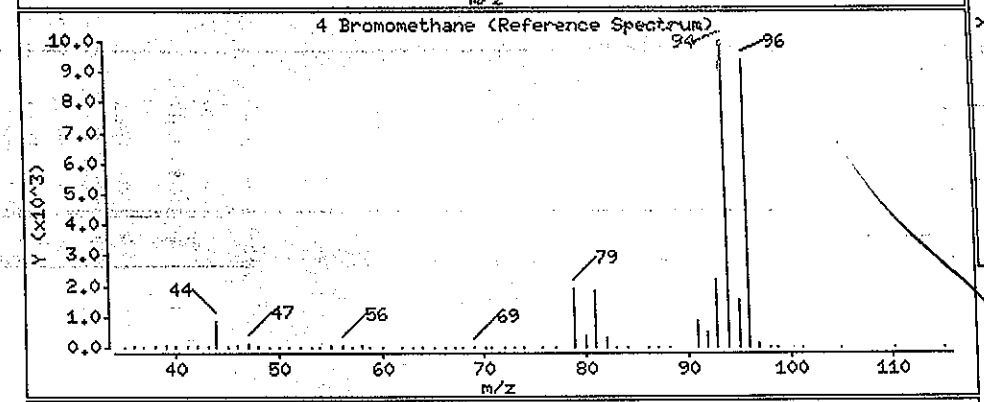
Purge Volume: 5.0 | Operator: LW

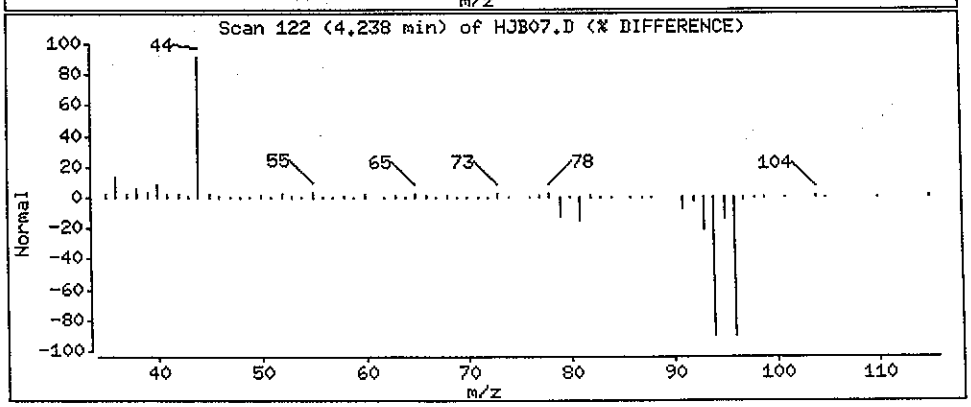
Column phase: RTx Volatiles | Column diameter: 0.32

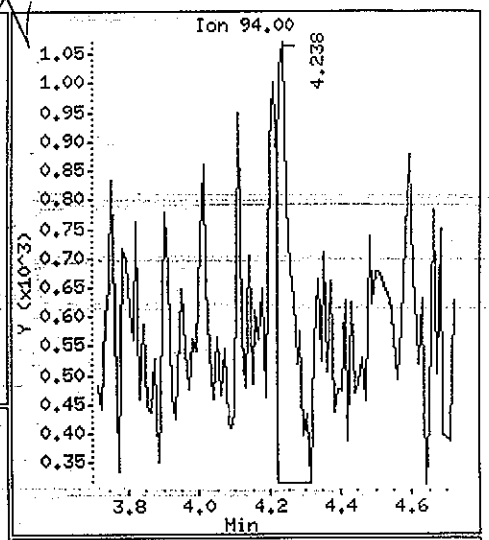
4 Bromomethane | Concentration: 0.2241 UG/L

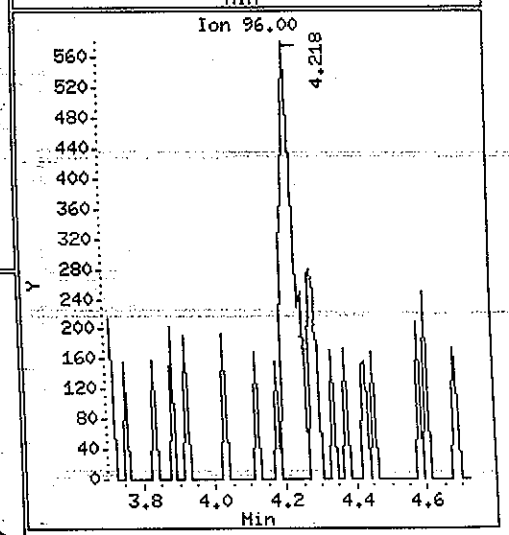












Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D

Date : 11-OCT-2004 13:21

Client ID: DYNA P&T

Instrument: MSVOA08.i

Sample Info: MB,QC267565

Purge Volume: 5.0

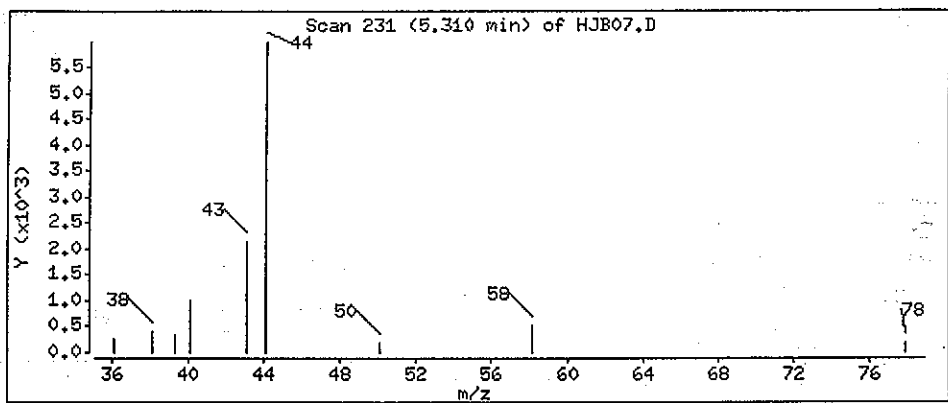
Operator: LW

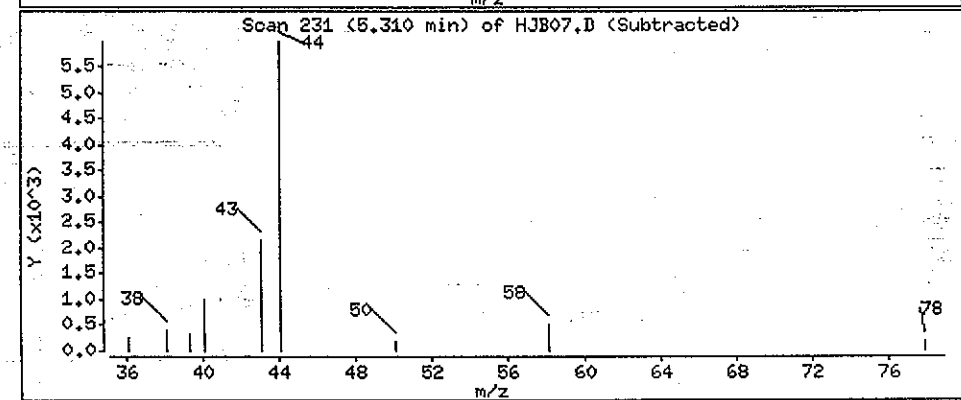
Column phase: RTx Volatiles

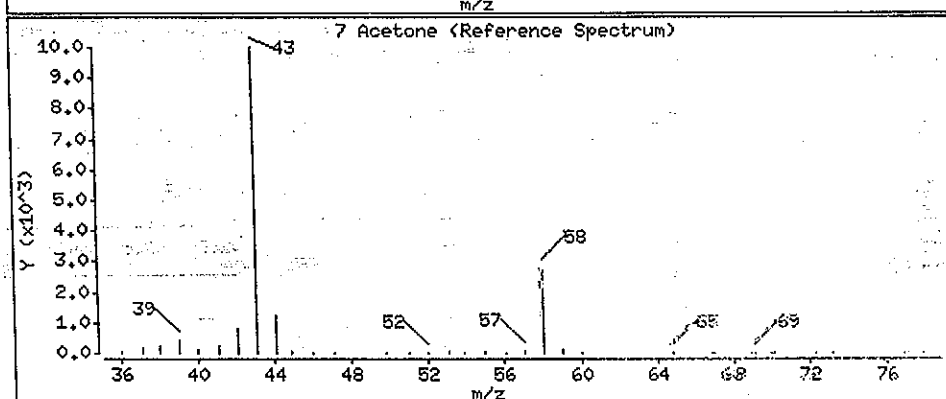
Column diameter: 0.32

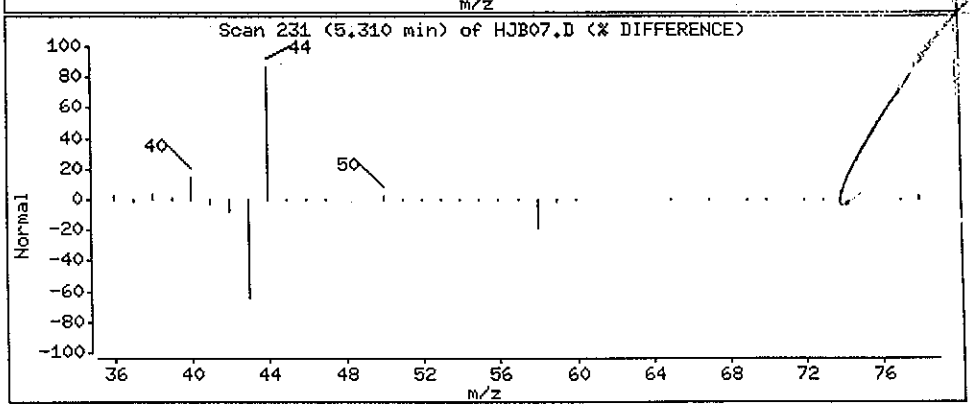
7 Acetone

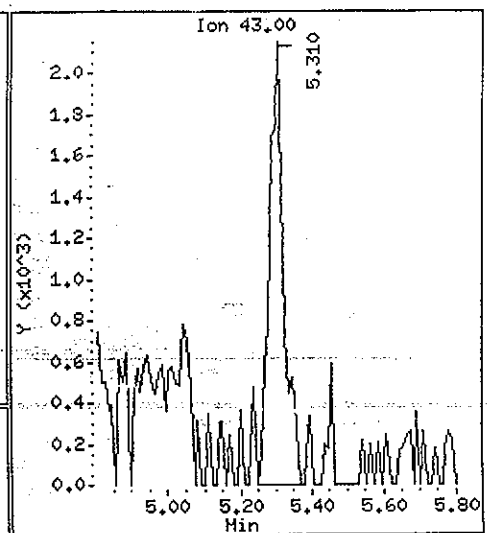
Concentration: 0.4025 UG/L

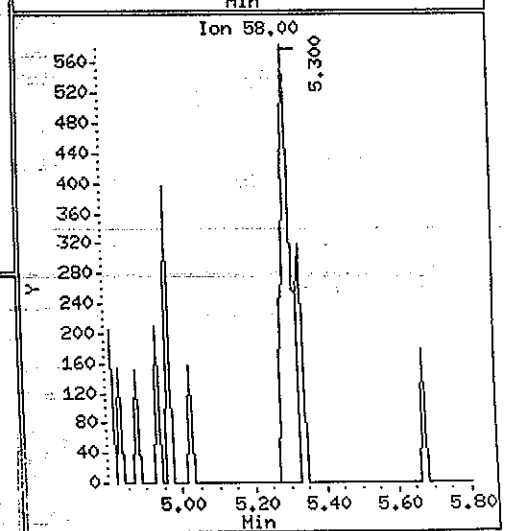












Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D

Date : 11-OCT-2004 13:21

Client ID: DYNA P&T

Instrument: MSVOA08.i

Sample Info: MB,QC267565

Purge Volume: 5.0

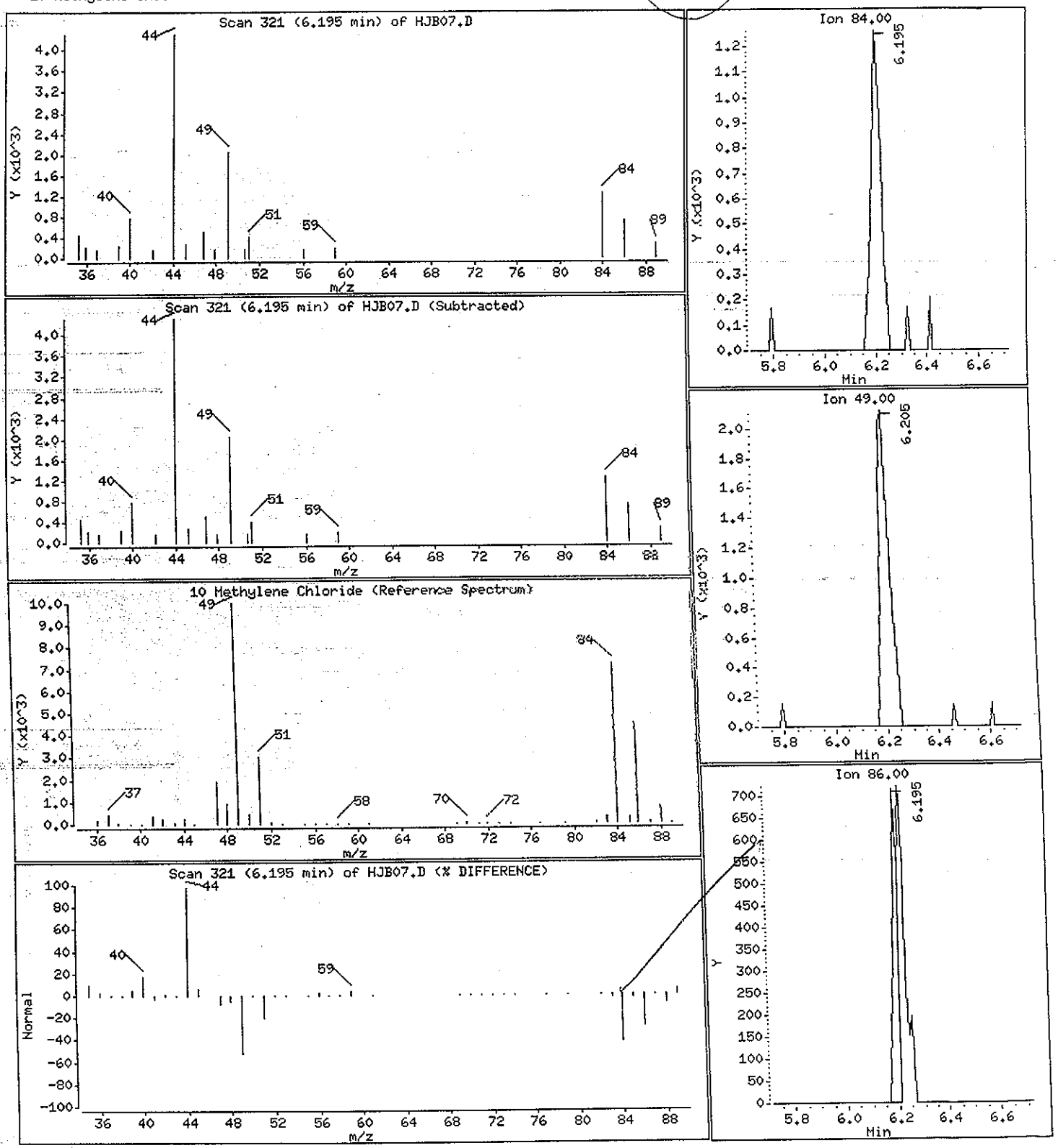
Operator: LW

Column phase: RTx Volatiles

Column diameter: 0.32

10 Methylene Chloride

Concentration: 0.1840 UG/L



Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D

Date : 11-OCT-2004 13:21

Client ID: DYNA P&T

Instrument: MSVOA08.i

Sample Info: MB,QC267565

Purge Volume: 5.0

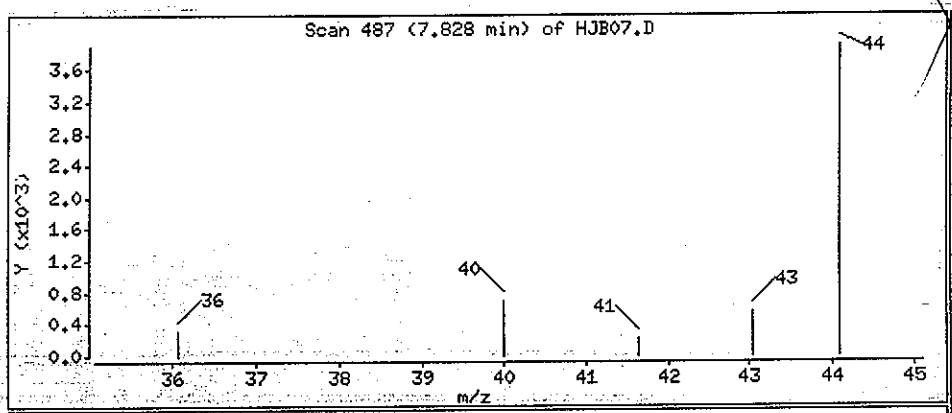
Operator: LW

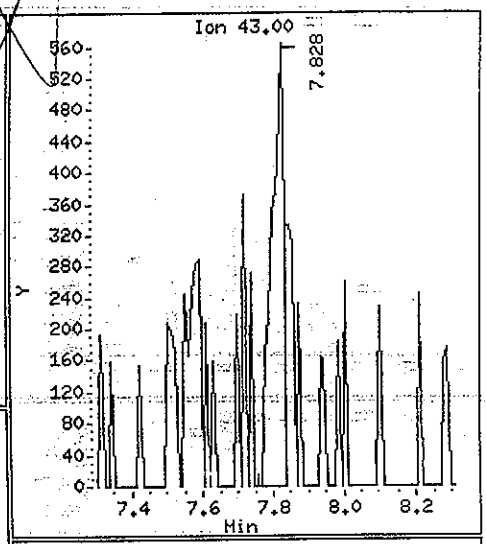
Column phase: RTx Volatiles

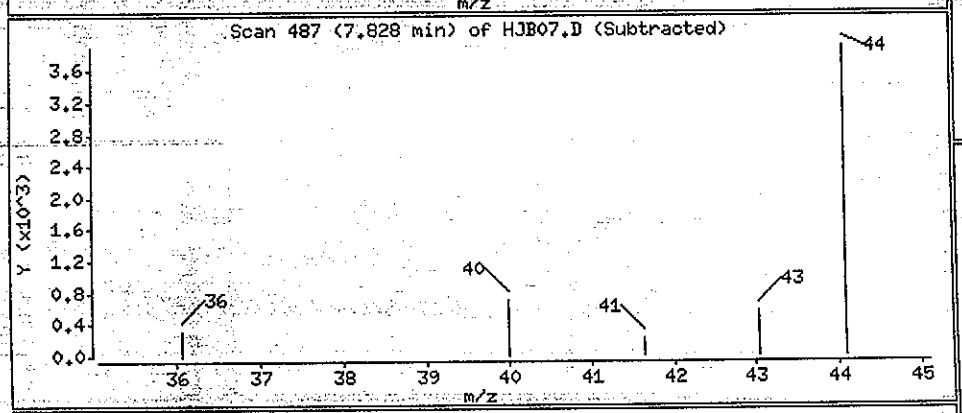
Column diameter: 0.32

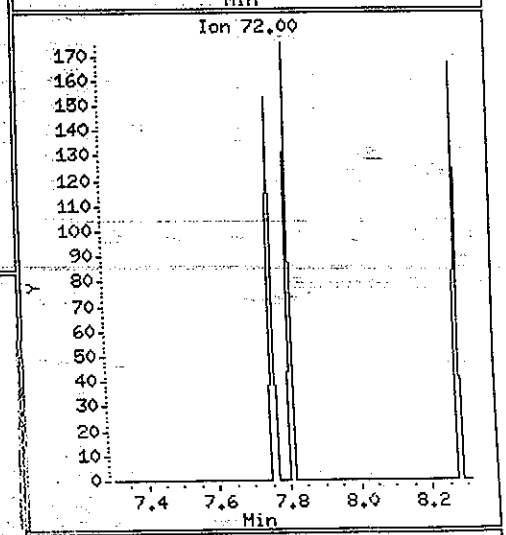
16 2-Butanone

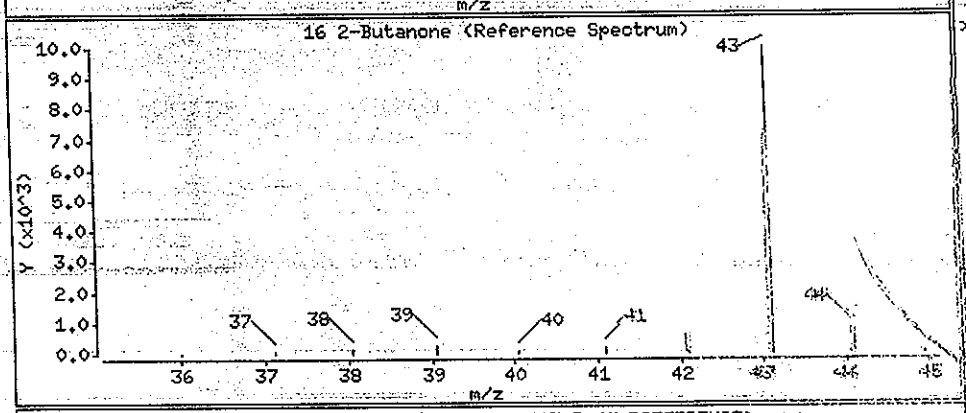
Concentration: 0.1406 UG/L

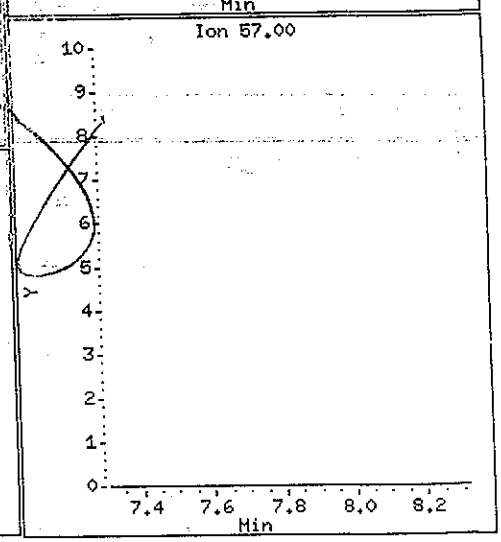


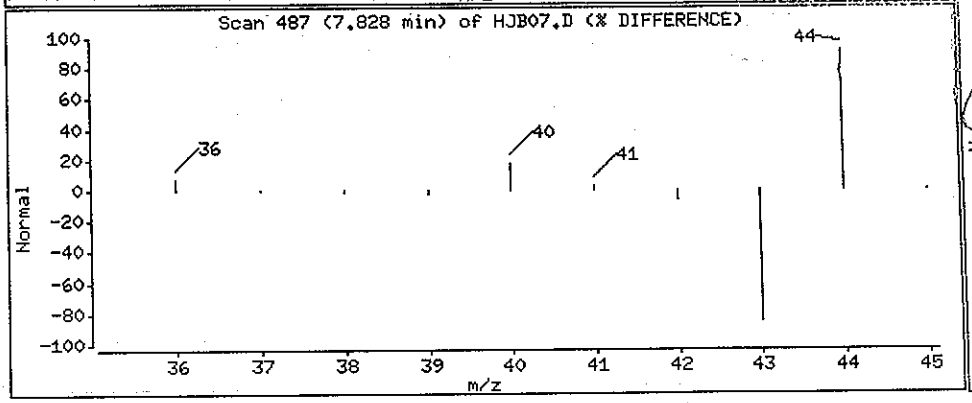












Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB07.D

Date : 11-OCT-2004 13:21

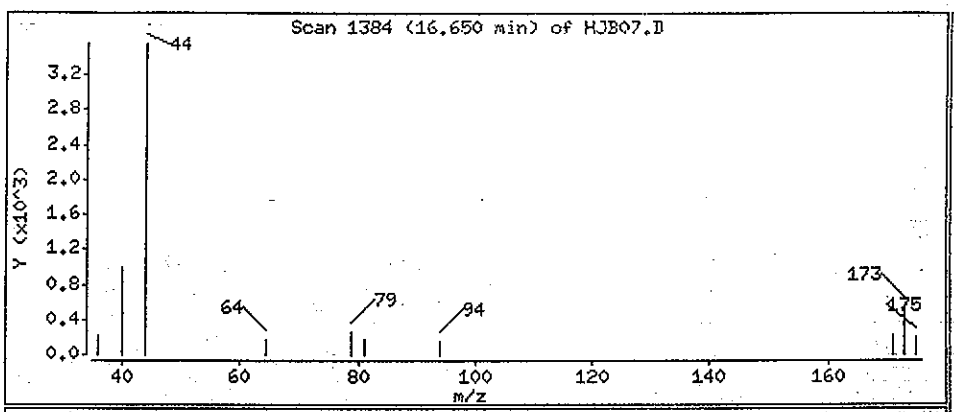
Client ID: DYNA P&T | Instrument: MSVOA08.i

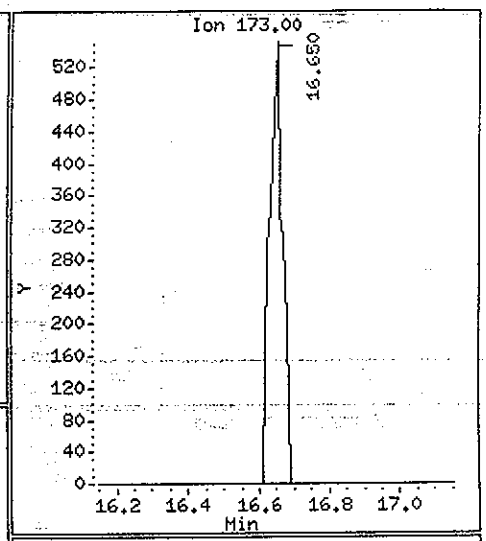
Sample Info: MB,QC267565

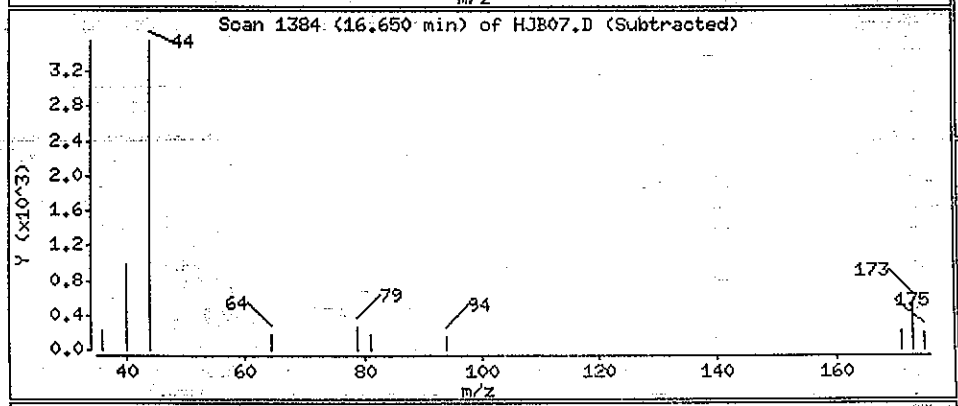
Purge Volume: 5.0 | Operator: LW

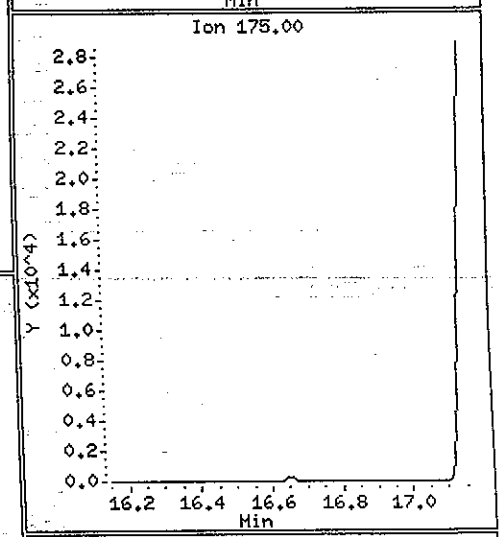
Column phase: RTx Volatiles | Column diameter: 0.32

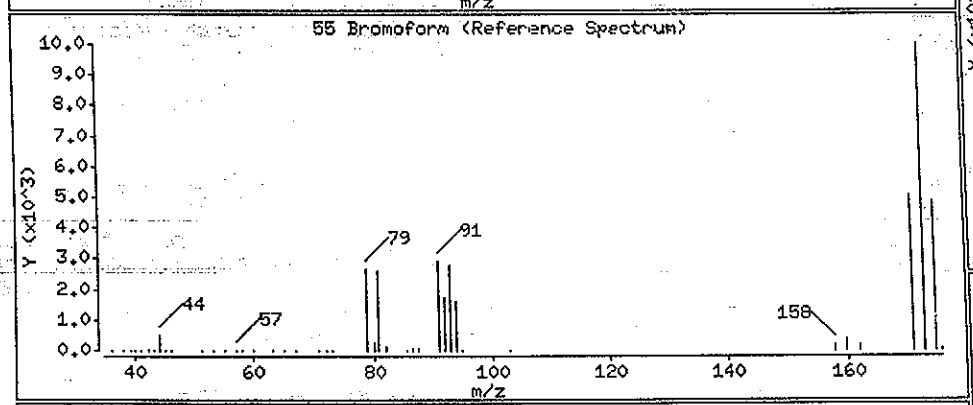
55 Bromoform | Concentration: 0.1201 UG/L

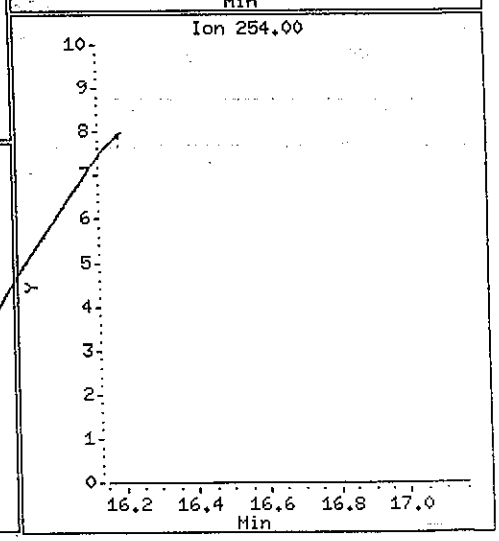


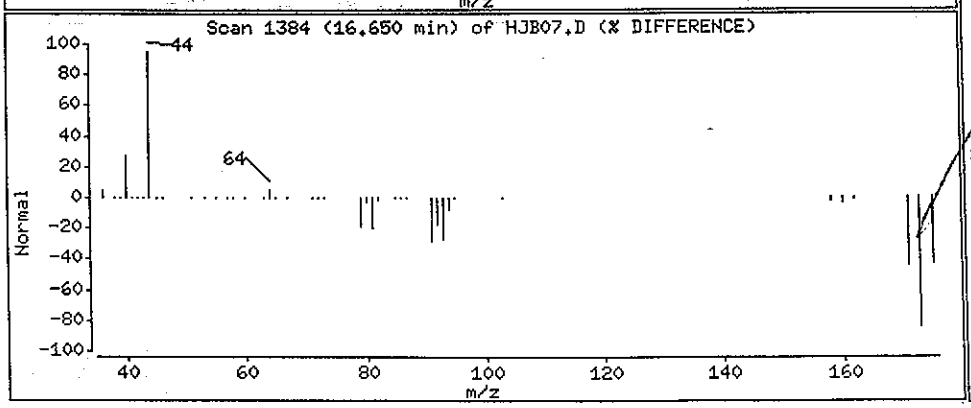












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Date : 11-OCT-2004 13:21

Client ID: DYNA P&T

Instrument: MSVOA08.i

Sample Info: MB,QC267565

Purge Volume: 5.0

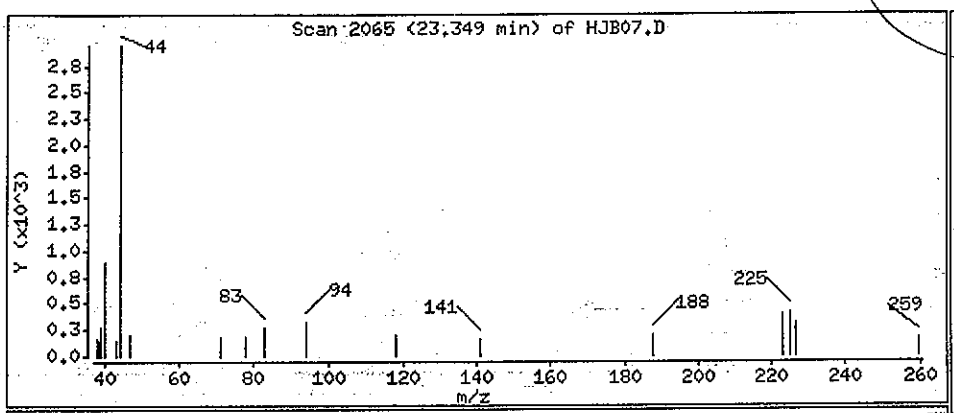
Operator: LW

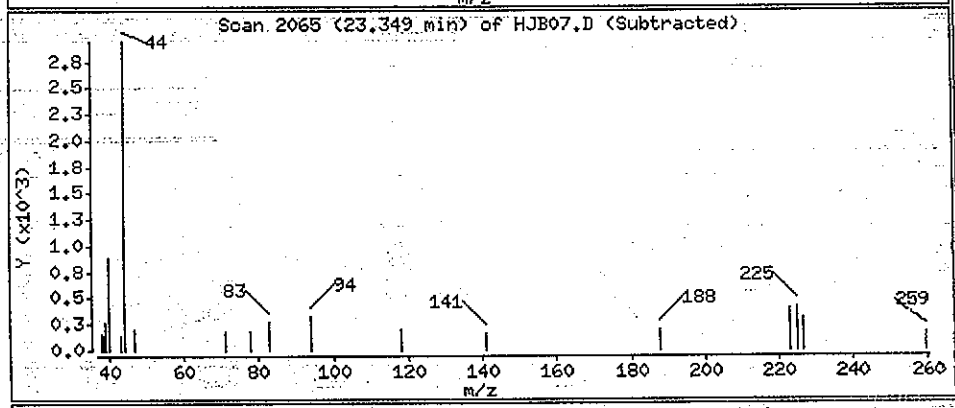
Column phase: RTx Volatiles

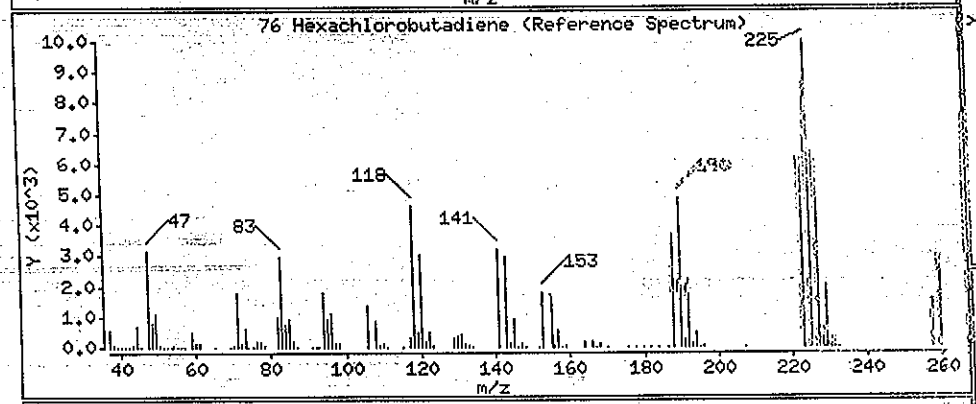
Column diameter: 0.32

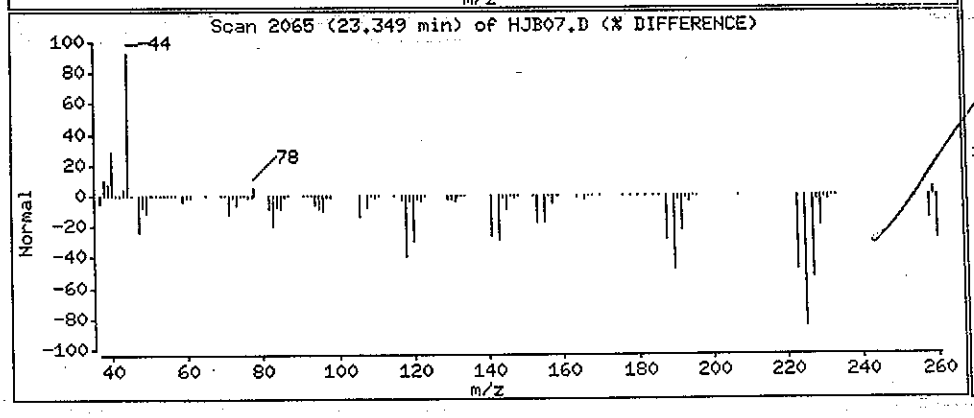
76 Hexachlorobutadiene

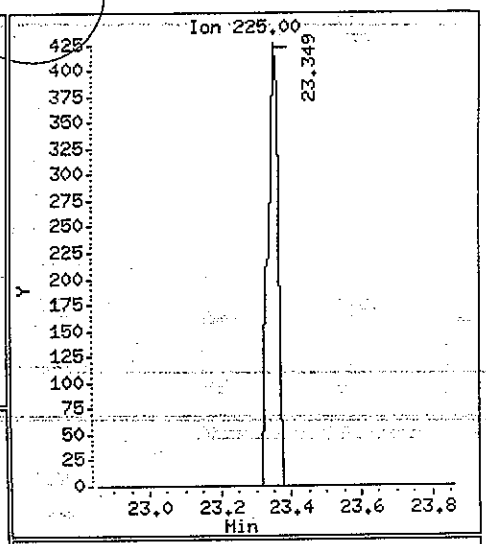
Concentration: 0.1235 UG/L

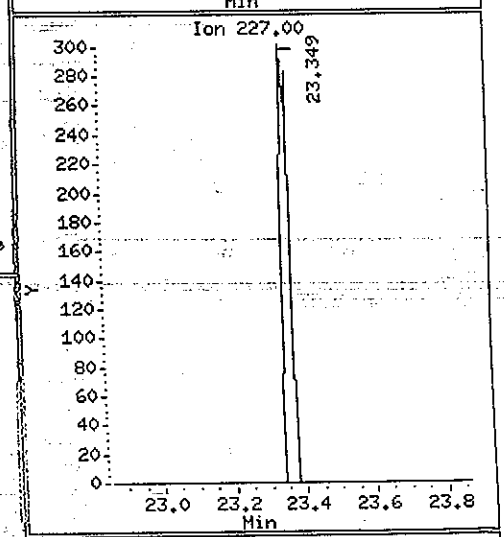


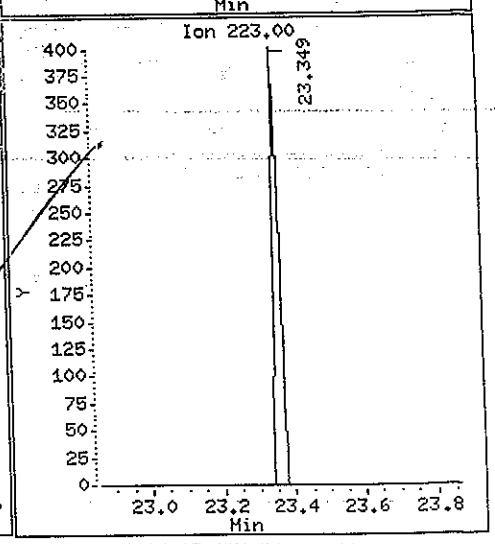












SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA08	Instid	: MSVOA08
Seqnum	: 474410970004	Seqnum	: 474410970005
Filename	: hjb04	Filename	: hjb05
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PDF	: 1.0	PDF	: 1.0
Run type	: BS	Run type	: BSD
Samplenum	: QC267563	Samplenum	: QC267564
Matrix	: Water	Matrix	: Water
Batchnum	: 95343	Batchnum	: 95343
Inj	: 11-OCT-2004 11:33	Inj	: 11-OCT-2004 12:09
Caltype	: WATER	Caltype	: WATER

Analyte	Spike Conc	BS	%Rec	BSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,1-Dichloroethene	25.00	24.30	97	23.67	95	75-120	ug/L	3	20	
Benzene	25.00	24.38	98	24.67	99	79-120	ug/L	1	20	
Trichloroethene	25.00	24.79	99	24.74	99	79-120	ug/L	0	20	
Toluene	25.00	25.17	101	25.56	102	80-120	ug/L	2	20	
Chlorobenzene	25.00	25.11	100	24.96	100	80-120	ug/L	1	20	
Freon 12	25.00	23.23	93	22.61	90	43-120	ug/L	3	21	!c+ !v-
Chloromethane	25.00	24.85	99	23.95	96	53-120	ug/L	4	21	!v-
Vinyl Chloride	25.00	26.05	104	23.23	93	58-120	ug/L	11	22	
Bromomethane	25.00	37.07	148	31.70	127	51-148	ug/L	16	27	
Chloroethane	25.00	28.15	113	26.18	105	65-120	ug/L	7	20	
Trichlorofluoromethane	25.00	29.84	119	28.71	115	73-126	ug/L	4	20	
Acetone	25.00	33.88	136	26.86	107	53-149	ug/L	23	29	
Freon 113	25.00	28.82	115	28.04	112	75-129	ug/L	3	20	
Methylene Chloride	25.00	26.14	105	25.70	103	75-120	ug/L	2	20	
MTBE	25.00	25.24	101	24.87	99	74-128	ug/L	1	20	
Carbon Disulfide	25.00	23.20	93	22.50	90	71-121	ug/L	3	20	
trans-1,2-Dichloroethene	25.00	25.46	102	24.78	99	76-120	ug/L	3	20	
Vinyl Acetate	25.00	21.08	84	20.63	83	48-120	ug/L	2	20	
1,1-Dichloroethane	25.00	26.94	108	26.20	105	74-120	ug/L	3	20	
2-Butanone	25.00	25.52	102	23.48	94	66-133	ug/L	8	20	
cis-1,2-Dichloroethene	25.00	26.71	107	26.14	105	76-121	ug/L	2	20	
2,2-Dichloropropane	25.00	26.44	106	25.24	101	70-145	ug/L	5	20	
Chloroform	25.00	27.08	108	26.20	105	76-120	ug/L	3	20	
Bromochloromethane	25.00	26.81	107	27.32	109	77-120	ug/L	2	20	
1,1,1-Trichloroethane	25.00	27.18	109	26.08	104	77-124	ug/L	4	20	
1,1-Dichloropropene	25.00	23.23	93	23.28	93	79-120	ug/L	0	20	
Carbon Tetrachloride	25.00	25.72	103	25.21	101	78-128	ug/L	2	20	
1,2-Dichloroethane	25.00	25.62	102	25.64	103	76-120	ug/L	0	20	
1,2-Dichloropropane	25.00	25.30	101	25.46	102	75-120	ug/L	1	20	
Bromodichloromethane	25.00	25.62	102	25.43	102	80-130	ug/L	1	20	
Dibromomethane	25.00	25.10	100	25.45	102	80-120	ug/L	1	20	
4-Methyl-2-Pentanone	25.00	20.96	84	20.92	84	68-126	ug/L	0	20	
cis-1,3-Dichloropropene	25.00	24.79	99	24.33	97	80-125	ug/L	2	20	
trans-1,3-Dichloropropene	25.00	22.71	91	23.34	93	78-121	ug/L	3	20	
1,1,2-Trichloroethane	25.00	26.02	104	26.01	104	80-120	ug/L	0	20	
2-Hexanone	25.00	24.02	96	21.90	88	70-131	ug/L	9	21	
1,3-Dichloropropane	25.00	25.08	100	25.69	103	79-120	ug/L	2	20	
Tetrachloroethene	25.00	24.74	99	24.95	100	80-125	ug/L	1	20	
Dibromochloromethane	25.00	24.29	97	24.27	97	80-121	ug/L	0	20	

!=warning +=high bias -=low bias c=CCV m=manual integration v=ICV

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA08	Instid	: MSVOA08
Seqnum	: 474410970004	Seqnum	: 474410970005
Filename	: hjb04	Filename	: hjb05
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: BS	Run type	: BSD
Samplenum	: QC267563	Samplenum	: QC267564
Matrix	: Water	Matrix	: Water
Batchnum	: 95343	Batchnum	: 95343
Inj	: 11-OCT-2004 11:33	Inj	: 11-OCT-2004 12:09
Caltype	: WATER	Caltype	: WATER

Analyte	Spike Conc	BS	%Rec	BSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,2-Dibromoethane	25.00	25.09	100	25.38	102	77-120	ug/L	1	20	
1,1,1,2-Tetrachloroethane	25.00	25.82	103	25.11	100	80-120	ug/L	3	20	
Ethylbenzene	25.00	25.35	101	25.29	101	80-121	ug/L	0	20	
m,p-Xylenes	50.00	51.20	102	51.78	104	80-120	ug/L	1	20	
o-Xylene	25.00	25.29	101	25.16	101	80-120	ug/L	1	20	
Styrene	25.00	25.01	100	25.75	103	80-125	ug/L	3	20	
Bromoform	25.00	22.01	88	21.88	88	77-126	ug/L	1	20	
Isopropylbenzene	25.00	22.81	91	22.71	91	73-120	ug/L	0	20	
1,1,2,2-Tetrachloroethane	25.00	26.17	105	25.93	104	74-120	ug/L	1	20	
1,2,3-Trichloropropane	25.00	26.04	104	25.33	101	73-120	ug/L	3	20	
Propylbenzene	25.00	25.30	101	25.46	102	79-123	ug/L	1	20	
Bromobenzene	25.00	25.69	103	25.73	103	80-120	ug/L	0	20	
1,3,5-Trimethylbenzene	25.00	25.03	100	24.78	99	79-124	ug/L	1	20	
2-Chlorotoluene	25.00	25.44	102	24.84	99	79-120	ug/L	2	20	
4-Chlorotoluene	25.00	24.50	98	24.83	99	78-120	ug/L	1	20	
tert-Butylbenzene	25.00	24.09	96	24.41	98	80-124	ug/L	1	20	m
1,2,4-Trimethylbenzene	25.00	25.37	101	25.36	101	80-128	ug/L	0	20	
sec-Butylbenzene	25.00	24.51	98	24.82	99	78-126	ug/L	1	20	
para-Isopropyl Toluene	25.00	23.68	95	23.85	95	75-124	ug/L	1	20	
1,3-Dichlorobenzene	25.00	24.60	98	24.77	99	80-120	ug/L	1	20	
1,4-Dichlorobenzene	25.00	25.00	100	24.94	100	80-120	ug/L	0	20	
n-Butylbenzene	25.00	25.50	102	25.37	101	70-137	ug/L	1	20	
1,2-Dichlorobenzene	25.00	24.97	100	25.14	101	80-120	ug/L	1	20	
1,2-Dibromo-3-Chloropropane	25.00	23.33	93	22.83	91	69-130	ug/L	2	20	
1,2,4-Trichlorobenzene	25.00	23.51	94	23.39	94	70-136	ug/L	1	20	
Hexachlorobutadiene	25.00	23.52	94	23.04	90	76-135	ug/L	2	20	
Naphthalene	25.00	25.97	104	25.41	102	59-133	ug/L	2	21	
1,2,3-Trichlorobenzene	25.00	23.33	93	23.77	95	70-139	ug/L	2	20	
Dibromofluoromethane	50.00	54.31	109	53.21	106	80-120	ug/L	--		
1,2-Dichloroethane-d4	50.00	51.63	103	51.40	103	80-120	ug/L	--		
Toluene-d8	50.00	51.10	102	51.48	103	80-120	ug/L	--		
Bromofluorobenzene	50.00	49.84	100	49.74	99	80-122	ug/L	--		

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2458992	4.85	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4534328	12.19	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3707590	12.70	15.04	15.03	-0.01
1,4-Dichlorobenzene-d4	1548545	1782792	15.13	19.34	19.33	-0.01

!=warning +=high bias -=low bias c=CCV m=manual integration v=ICV

10-11-04

10/12/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA08	Instid	: MSVOA08
Seqnum	: 474410970004	Seqnum	: 474410970005
Filename	: hjb04	Filename	: hjb05
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: BS	Run type	: BSD
Samplenum	: QC267563	Samplenum	: QC267564
Matrix	: Water	Matrix	: Water
Batchnum	: 95343	Batchnum	: 95343
Inj	: 11-OCT-2004 11:33	Inj	: 11-OCT-2004 12:09
Caltype	: WATER	Caltype	: WATER

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2497962	6.51	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4512703	11.65	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3712448	12.84	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1774338	14.58	19.34	19.34	0.00

!=warning +=high bias -=low bias c=CCV m=manual integration v=ICV
Page 3 of 3

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\101104.b\HJB04.D
Report Date: 11-Oct-2004 13:27

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\101104.b\HJB04.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 11-OCT-2004 11:33 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : BS,QC267563,95343,1/1,
Misc Info : 04WS1554,0.01/100,04WS1726,0.01/100,NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\I8M826W.m
Meth Date : 11-Oct-2004 11:46 tapsvc Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 4 QC Sample: BS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	1 Freon 12	85	3.121	3.116	(0.364)	500168	23.2269	23.2268
	2 Chloromethane	50	3.465	3.461	(0.404)	523870	24.8490	24.8489
	3 Vinyl Chloride	62	3.613	3.599	(0.421)	376907	26.0461	26.0460
	4 Bromomethane	94	4.213	4.219	(0.491)	323002	37.0650	37.0650
	5 Chloroethane	64	4.340	4.338	(0.506)	262279	28.1516	28.1515
	6 Trichlorofluoromethane	101	4.754	4.762	(0.554)	748642	29.8421	29.8421
	7 Acetone	43	5.304	5.304	(0.618)	253341	33.8838	33.8838
	8 Freon 113	101	5.422	5.423	(0.632)	423972	28.8237	28.8236
	9 1,1-Dichloroethene	96	5.599	5.600	(0.653)	354388	24.2965	24.2964(R)
	10 Methylene Chloride	84	6.199	6.212	(0.723)	494428	26.1415	26.1415
	11 Carbon Disulfide	76	6.298	6.300	(0.734)	1310120	23.1969	23.1968
	12 MTBE	73	6.544	6.547	(0.763)	1023149	25.2393	25.2392
	13 trans-1,2-Dichloroethene	96	6.701	6.705	(0.781)	421540	25.4568	25.4567
	14 Vinyl Acetate	43	7.232	7.237	(0.843)	975233	21.0759	21.0759
	15 1,1-Dichloroethane	63	7.262	7.267	(0.846)	812502	26.9420	26.9419
	16 2-Butanone	43	7.812	7.809	(0.911)	259383	25.5174	25.5174
	17 2,2-Dichloropropane	77	8.127	8.134	(0.947)	566493	26.4351	26.4350
	18 cis-1,2-Dichloroethene	96	8.137	8.134	(0.948)	454637	26.7132	26.7131
	19 Chloroform	83	8.383	8.381	(0.977)	783174	27.0824	27.0824
*	20 Pentafluorobenzene	168	8.580	8.577	(1.000)	2458992	50.0000	
	21 Bromochloromethane	128	8.580	8.577	(1.000)	221271	26.8119	26.8119
$	22 Dibromofluoromethane	113	8.668	8.676	(1.010)	1624829	54.3122	54.3122

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\101104.b\HJB04.D
Report Date: 11-Oct-2004 13:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	23 1,1,1-Trichloroethane	97	9.042	9.041	(1.054)	571082	27.1796	27.1795
	24 1,1-Dichloropropene	75	9.288	9.288	(0.925)	552380	23.2295	23.2295
$	25 1,2-Dichloroethane-d4	65	9.396	9.396	(0.935)	1867747	51.6309	51.6309
	26 Carbon Tetrachloride	117	9.455	9.465	(0.941)	477800	25.7150	25.7149
	27 1,2-Dichloroethane	62	9.534	9.534	(0.949)	613453	25.6180	25.6179
	28 Benzene	78	9.642	9.643	(0.960)	1651040	24.3838	24.3837(R)
*	29 1,4-Difluorobenzene	114	10.045	10.047	(1.000)	4534328	50.0000	
	30 Trichloroethene	95	10.616	10.619	(1.057)	416215	24.7857	24.7857(R)
$	31 Trifluorotoluene	146	10.694	10.707	(1.065)	4131	0.17956	0.1795(aA)
	32 1,2-Dichloropropane	63	10.832	10.836	(1.078)	448854	25.3007	25.3006
	33 Bromodichloromethane	83	11.157	11.161	(1.111)	605813	25.6209	25.6209
	34 Dibromomethane	93	11.206	11.210	(1.116)	338350	25.0956	25.0955
	35 2-Chloroethylvinylether	63	11.717	11.733	(1.166)	321	11.3293	11.3293
	36 4-Methyl-2-Pentanone	43	11.727	11.733	(1.167)	456142	20.9577	20.9576
	37 Tetramethyl THF	43	11.914	11.920	(1.186)	992396	22.3575	22.3575(A)
	38 cis-1,3-Dichloropropene	75	12.032	12.038	(1.198)	710084	24.7883	24.7882
$	39 Toluene-d8	98	12.514	12.522	(1.246)	4582237	51.1002	51.1001
	40 Toluene	92	12.642	12.650	(1.258)	960916	25.1683	25.1682(R)
	41 trans-1,3-Dichloropropene	75	12.829	12.827	(1.277)	578061	22.7118	22.7118
	42 1,1,2-Trichloroethane	85	13.094	13.093	(1.304)	244476	26.0167	26.0166
	43 2-Hexanone	43	13.143	13.153	(0.874)	360759	24.0175	24.0175
	44 1,3-Dichloropropane	76	13.507	13.508	(0.899)	665309	25.0805	25.0804
	45 Tetrachloroethene	166	13.783	13.793	(0.917)	344503	24.7391	24.7390
	46 Dibromochloromethane	129	13.960	13.961	(0.929)	413367	24.2923	24.2923
	47 1,2-Dibromoethane	107	14.314	14.316	(1.425)	435904	25.0866	25.0866
*	48 Chlorobenzene-d5	117	15.032	15.046	(1.000)	3707590	50.0000	
	49 Chlorobenzene	112	15.101	15.105	(1.005)	1056097	25.1069	25.1068(R)
	50 1,1,1,2-Tetrachloroethane	131	15.160	15.174	(1.009)	361281	25.8165	25.8164
	51 Ethylbenzene	91	15.229	15.233	(1.013)	1849270	25.3502	25.3502
	52 m,p-Xylenes	106	15.376	15.391	(1.023)	1332315	51.1966	51.1965
	53 o-Xylene	106	16.133	16.144	(1.073)	651585	25.2891	25.2890
	54 Styrene	104	16.153	16.160	(1.075)	1213327	25.0077	25.0077
	55 Bromoform	173	16.645	16.652	(1.107)	208833	22.0053	22.0053
	56 Isopropylbenzene	105	16.792	16.791	(0.969)	1515037	22.8117	22.8117
	57 1,1,2,2-Tetrachloroethane	83	16.960	16.957	(0.977)	911655	26.1676	26.1675
$	58 Bromofluorobenzene	95	17.166	17.165	(0.988)	2054981	49.8445	49.8444
	59 1,2,3-Trichloropropane	110	17.215	17.225	(0.891)	146564	26.0445	26.0445
	60 Bromobenzene	156	17.510	17.510	(0.906)	429931	25.6892	25.6892
	61 Propylbenzene	91	17.510	17.520	(0.906)	2176258	25.2987	25.2987
	62 2-Chlorotoluene	91	17.796	17.796	(0.921)	1450299	25.4391	25.4390
	63 1,3,5-Trimethylbenzene	105	17.806	17.816	(0.921)	1370567	25.0293	25.0293
	64 4-Chlorotoluene	91	17.884	17.885	(0.925)	1302896	24.5002	24.5002
	65 tert-Butylbenzene	119	18.455	18.457	(0.955)	1176836	24.0930	24.0930(M) LW/10-11-04
	66 1,2,4-Trimethylbenzene	105	18.514	18.526	(0.958)	1423039	25.3748	25.3748
	67 sec-Butylbenzene	105	18.858	18.861	(0.976)	1861508	24.5100	24.5099
	68 para-Isopropyl Toluene	119	19.104	19.118	(0.988)	1389131	23.6799	23.6799
	69 1,3-Dichlorobenzene	146	19.212	19.216	(0.994)	775814	24.6048	24.6047
*	70 1,4-Dichlorobenzene-d4	152	19.330	19.334	(1.000)	1782792	50.0000	
	71 1,4-Dichlorobenzene	146	19.389	19.394	(1.003)	805307	24.9950	24.9949
	72 n-Butylbenzene	91	19.861	19.867	(1.027)	1506169	25.5020	25.5020
	73 1,2-Dichlorobenzene	146	20.058	20.064	(1.038)	755499	24.9663	24.9662
	74 1,2-Dibromo-3-Chloropropane	75	21.425	21.434	(1.108)	92587	23.3279	23.3278
	75 1,2,4-Trichlorobenzene	180	23.058	23.061	(1.193)	449854	23.5109	23.5108
	76 Hexachlorobutadiene	225	23.353	23.357	(1.208)	179875	23.5201	23.5200

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\101104.b\HJB04.D
Report Date: 11-Oct-2004 13:27

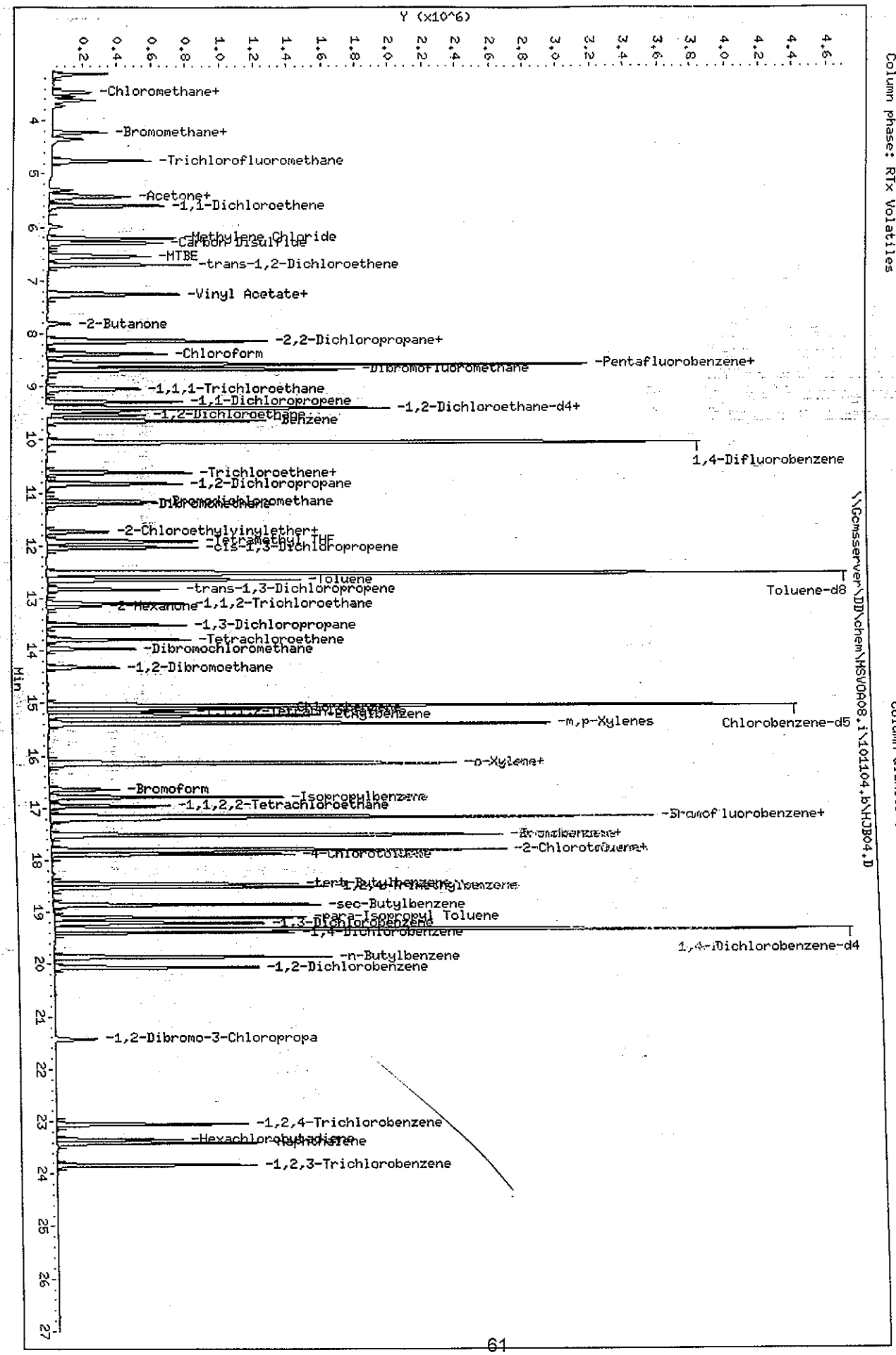
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
77 Naphthalene	128	23.422	23.426	(1.212)	1231513	25.9661	25.9660
78 1,2,3-Trichlorobenzene	180	23.835	23.840	(1.233)	443443	23.3320	23.3320

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSV0A08.i\101104.b\HJB04.D
Date : 11-OCT-2004 11:33
Client ID: DYNA P&T
Sample Info: BS,QC267563,95343,1/1,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSV0A08.i
Operator: LM
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB05.D
Report Date: 11-Oct-2004 13:09

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB05.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 11-OCT-2004 12:09 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : BSD,QC267564,95343,1/1,
Misc Info : 04WS1554,0.01/100,04WS1726,0.01/100,NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\I8M826W.m
Meth Date : 11-Oct-2004 11:46 tapsvc Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 5 QC Sample: BSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.113	3.116	(0.363)	494637	22.6117	22.6116
2 Chloromethane	50	3.447	3.461	(0.404)	512925	23.9503	23.9502
3 Vinyl Chloride	62	3.488	3.489	(0.422)	341469	23.2291	23.2290
4 Bromomethane	94	4.218	4.220	(0.492)	290637	31.7008	31.7007
5 Chloroethane	64	4.346	4.338	(0.507)	247702	26.1798	26.1797
6 Trichlorofluoromethane	101	4.759	4.762	(0.555)	731008	28.7133	28.7132
7 Acetone	43	5.300	5.304	(0.618)	204674	26.8574	26.8573
8 Freon 113	101	5.418	5.423	(0.632)	418930	28.0359	28.0359
9 1,1-Dichloroethene	96	5.595	5.600	(0.652)	350330	23.6706	23.6706(R)
10 Methylene Chloride	84	6.205	6.212	(0.724)	493781	25.7000	25.7000
11 Carbon Disulfide	76	6.293	6.300	(0.734)	1290862	22.4993	22.4993
12 MTBE	73	6.539	6.547	(0.763)	1024236	24.8719	24.8719
13 trans-1,2-Dichloroethene	96	6.706	6.705	(0.782)	416790	24.7773	24.7773
14 Vinyl Acetate	43	7.237	7.237	(0.844)	969928	20.6343	20.6342
15 1,1-Dichloroethane	63	7.267	7.267	(0.847)	802771	26.2040	26.2040
16 2-Butanone	43	7.808	7.809	(0.911)	242504	23.4848	23.4848

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB05.D
Report Date: 11-Oct-2004 13:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 2,2-Dichloropropane	77	8.133	8.134	(0.948)	549398	25.2374	25.2373
	18 cis-1,2-Dichloroethene	96	8.133	8.134	(0.948)	452082	26.1360	26.1360
	19 Chloroform	83	8.378	8.381	(0.977)	769699	26.2012	26.2012
*	20 Pentafluorobenzene	168	8.575	8.578	(1.000)	2497962	50.0000	
	21 Bromochloromethane	128	8.575	8.578	(1.000)	229043	27.3208	27.3207
$	22 Dibromofluoromethane	113	8.674	8.676	(1.011)	1617077	53.2098	53.2098
	23 1,1,1-Trichloroethane	97	9.037	9.041	(1.054)	556584	26.0764	26.0763
	24 1,1-Dichloropropene	75	9.293	9.288	(0.925)	550845	23.2760	23.2759
$	25 1,2-Dichloroethane-d4	65	9.392	9.396	(0.934)	1850376	51.3959	51.3958
	26 Carbon Tetrachloride	117	9.460	9.465	(0.941)	466197	25.2108	25.2107
	27 1,2-Dichloroethane	62	9.529	9.534	(0.948)	611112	25.6425	25.6425
	28 Benzene	78	9.647	9.643	(0.960)	1662406	24.6693	24.6692(R)
*	29 1,4-Difluorobenzene	114	10.051	10.047	(1.000)	4512703	50.0000	
	30 Trichloroethene	95	10.611	10.619	(1.056)	413487	24.7413	24.7412(R)
$	31 Trifluorotoluene	146	10.700	10.707	(1.065)	4070	0.17778	0.1777(a)
	32 1,2-Dichloropropane	63	10.828	10.836	(1.077)	449513	25.4593	25.4592
	33 Bromodichloromethane	83	11.162	11.161	(1.111)	598532	25.4343	25.4343
	34 Dibromomethane	93	11.211	11.210	(1.115)	341555	25.4547	25.4547
	35 2-Chloroethylvinylether	63	11.723	11.733	(1.166)	330	11.7379	11.7378
	36 4-Methyl-2-Pentanone	43	11.732	11.733	(1.167)	453191	20.9219	20.9218
	37 Tetramethyl THF	43	11.919	11.920	(1.186)	997401	22.5780	22.5779
	38 cis-1,3-Dichloropropene	75	12.027	12.038	(1.197)	693543	24.3269	24.3268
$	39 Toluene-d8	98	12.509	12.522	(1.245)	4594539	51.4829	51.4828
	40 Toluene	92	12.647	12.650	(1.258)	971395	25.5647	25.5646(R)
	41 trans-1,3-Dichloropropene	75	12.824	12.827	(1.276)	591211	23.3398	23.3398
	42 1,1,2-Trichloroethane	85	13.090	13.093	(1.302)	243234	26.0086	26.0086
	43 2-Hexanone	43	13.149	13.153	(0.874)	329392	21.9006	21.9005
	44 1,3-Dichloropropane	76	13.503	13.508	(0.898)	682450	25.6930	25.6929
	45 Tetrachloroethene	166	13.788	13.793	(0.917)	347908	24.9509	24.9509
	46 Dibromochloromethane	129	13.955	13.961	(0.928)	413895	24.2740	24.2739
	47 1,2-Dibromoethane	107	14.309	14.316	(1.424)	438926	25.3816	25.3815
*	48 Chlorobenzene-d5	117	15.037	15.046	(1.000)	3712448	50.0000	
	49 Chlorobenzene	112	15.106	15.105	(1.005)	1051129	24.9561	24.9560(R)
	50 1,1,1,2-Tetrachloroethane	131	15.165	15.174	(1.009)	351913	25.1142	25.1141
	51 Ethylbenzene	91	15.234	15.233	(1.013)	1847651	25.2949	25.2949
	52 m,p-Xylenes	106	15.381	15.391	(1.023)	1349328	51.7825	51.7825
	53 o-Xylene	106	16.129	16.140	(1.073)	649149	25.1577	25.1577
	54 Styrene	104	16.152	16.160	(1.075)	1147820	25.7488	25.7487
	55 Bromoform	173	16.650	16.653	(1.107)	375141	21.8818	21.8817
	56 Isopropylbenzene	105	16.788	16.791	(0.868)	1505128	22.7105	22.7105
	57 1,1,2,2-Tetrachloroethane	83	16.955	16.958	(0.877)	603289	25.9335	25.9334
$	58 Bromofluorobenzene	95	17.162	17.165	(0.888)	2049932	49.7362	49.7362
	59 1,2,3-Trichloropropane	110	17.221	17.225	(0.891)	143985	25.3335	25.3335
	60 Bromobenzene	156	17.506	17.510	(0.905)	422611	25.7313	25.7313
	61 Propylbenzene	91	17.516	17.520	(0.906)	2199588	25.4582	25.4581
	62 2-Chlorotoluene	91	17.801	17.796	(0.921)	1409168	24.8354	24.8353
	63 1,3,5-Trimethylbenzene	105	17.811	17.816	(0.921)	1350481	24.7800	24.7800

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB05.D
Report Date: 11-Oct-2004 13:09

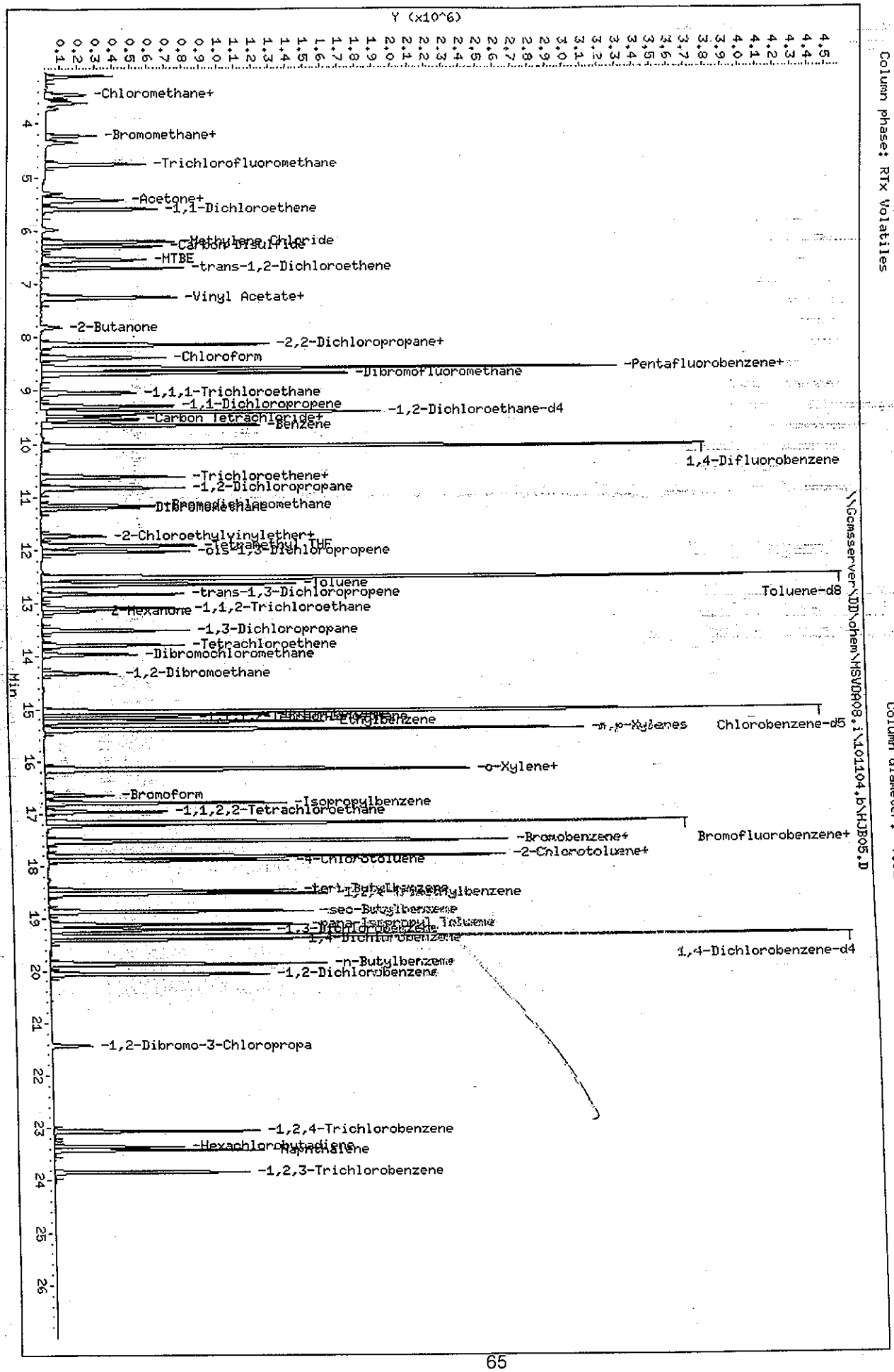
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 4-Chlorotoluene	91	17.880	17.885	(0.925)	1314267	24.8318	24.8318
65 tert-Butylbenzene	119	18.460	18.457	(0.955)	1186766	24.4121	24.4120
66 1,2,4-Trimethylbenzene	105	18.519	18.526	(0.958)	1415573	25.3620	25.3619
67 sec-Butylbenzene	105	18.853	18.861	(0.975)	1875847	24.8164	24.8164
68 para-Isopropyl Toluene	119	19.109	19.118	(0.988)	1392704	23.8540	23.8539
69 1,3-Dichlorobenzene	146	19.208	19.216	(0.993)	777185	24.7657	24.7657
* 70 1,4-Dichlorobenzene-d4	152	19.335	19.334	(1.000)	1774338	50.0000	
71 1,4-Dichlorobenzene	146	19.394	19.394	(1.003)	799726	24.9401	24.9400
72 n-Butylbenzene	91	19.857	19.867	(1.027)	1491015	25.3657	25.3657
73 1,2-Dichlorobenzene	146	20.053	20.064	(1.037)	757031	25.1361	25.1360
74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	90170	22.8272	22.8272
75 1,2,4-Trichlorobenzene	180	23.053	23.061	(1.192)	445378	23.3879	23.3878
76 Hexachlorobutadiene	225	23.358	23.357	(1.208)	175332	23.0353	23.0353
77 Naphthalene	128	23.417	23.426	(1.211)	1199618	25.4141	25.4140
78 1,2,3-Trichlorobenzene	180	23.840	23.840	(1.233)	449637	23.7707	23.7706

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\Comsserver\DD\chem\MSVOA08.i\101104.b\HJB05.D
Date : 11-OCT-2004 12:09
Client ID: DYNA P&T
Sample Info: BSD,QC267564,95343,1/1,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Initial Calibration Data

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\091404.b\HIE08.D

Date : 14-SEP-2004 15:30

Client ID: bfb tune std

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

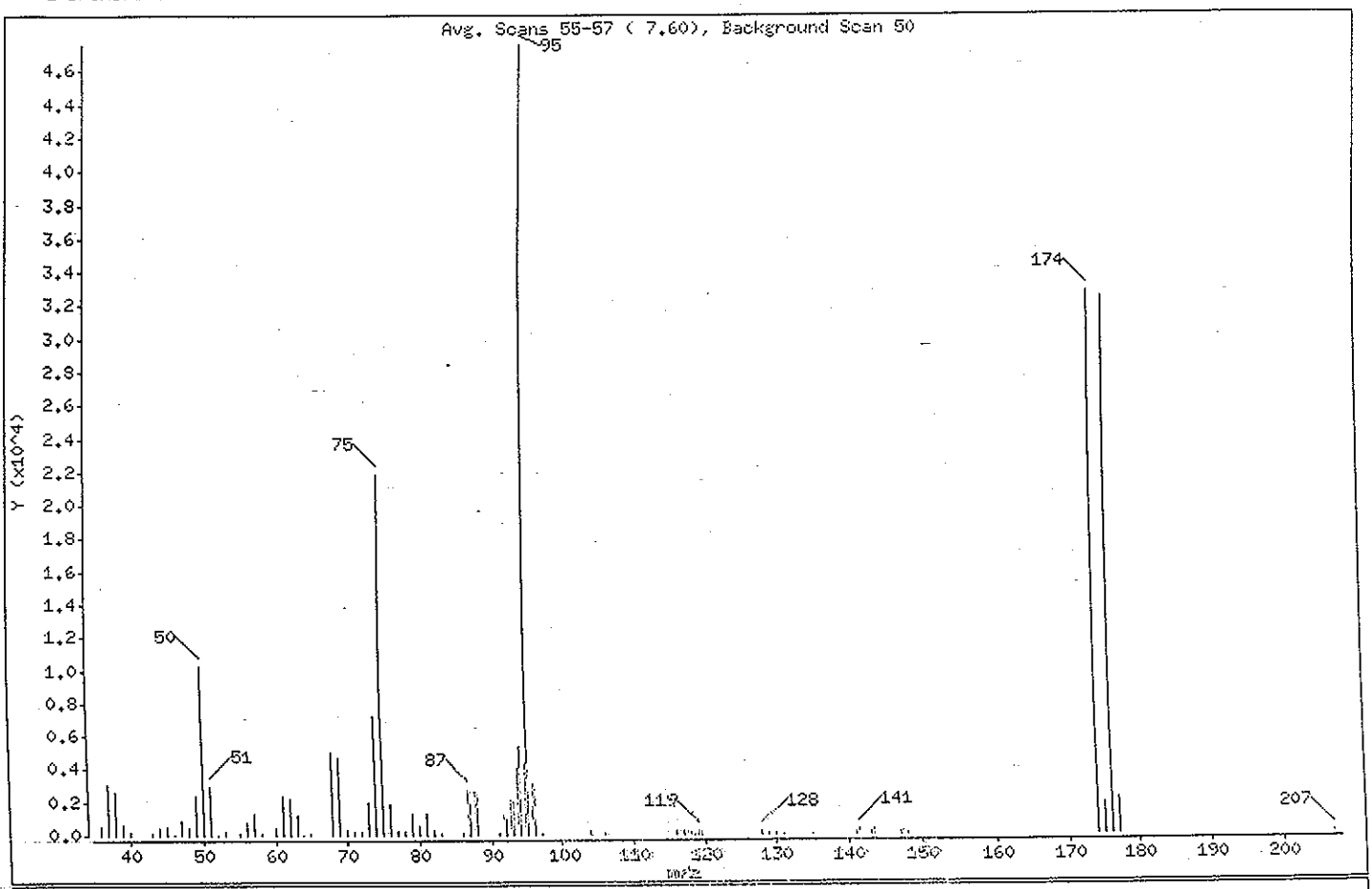
Column phase:

1 Bromofluorobenzene

Instrument: MSVOA08.i

Operator: LW

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.66
75	30.00 - 60.00% of mass 95	43.95
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	68.81
175	5.00 - 9.00% of mass 174	3.91 (5.68)
176	95.01 - 100.99% of mass 174	67.96 (98.77)
177	5.00 - 9.00% of mass 176	4.57 (6.73)

09/15/04

LW 9-15-04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\091404.b\HIE08.D

Date : 14-SEP-2004 15:30

Client ID: bfb tune std

Instrument: MSVOA08.i

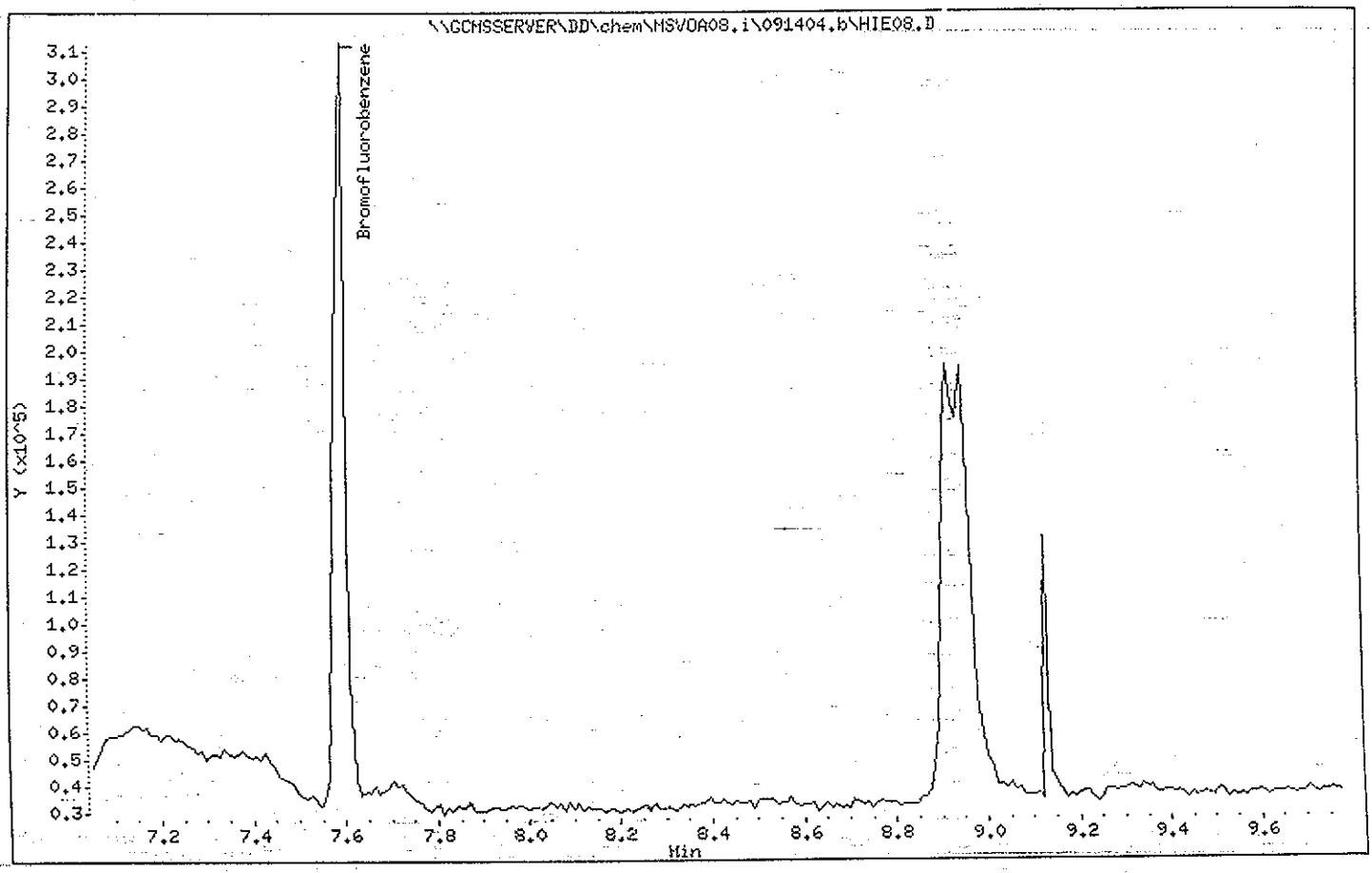
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\091404.b\HIE08.D

Date : 14-SEP-2004 15:30

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

Data File: HIE08.D
Spectrum: Avg. Scans 55-57 (7.60), Background Scan 50
Location of Maximum: 95.00
Number of points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	600	58.00	121	80.00	577	119.00	248
37.00	3056	60.00	407	81.00	1285	128.00	197
38.00	2579	61.00	2420	82.00	293	129.00	67
39.00	699	62.00	2171	83.00	136	130.00	111
40.00	218	63.00	1191	86.00	144	131.00	53
43.00	159	64.00	50	87.00	2789	135.00	53
44.00	490	65.00	93	88.00	2607	141.00	312
45.00	529	68.00	5085	91.00	98	143.00	301
46.00	44	69.00	4721	92.00	1213	147.00	165
47.00	926	70.00	378	93.00	2028	148.00	78
48.00	451	71.00	219	94.00	5364	174.00	32736
49.00	2422	72.00	236	95.00	47584	175.00	1860
50.00	10305	73.00	1971	96.00	3058	176.00	32336
51.00	2943	74.00	7189	97.00	164	177.00	2175
52.00	45	75.00	21864	104.00	165	207.00	20
53.00	256	76.00	1887	106.00	161		
55.00	63	77.00	223	116.00	176		
56.00	738	78.00	173	117.00	189		
57.00	1329	79.00	1358	118.00	123		

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB02.D

Date : 11-OCT-2004 10:00

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

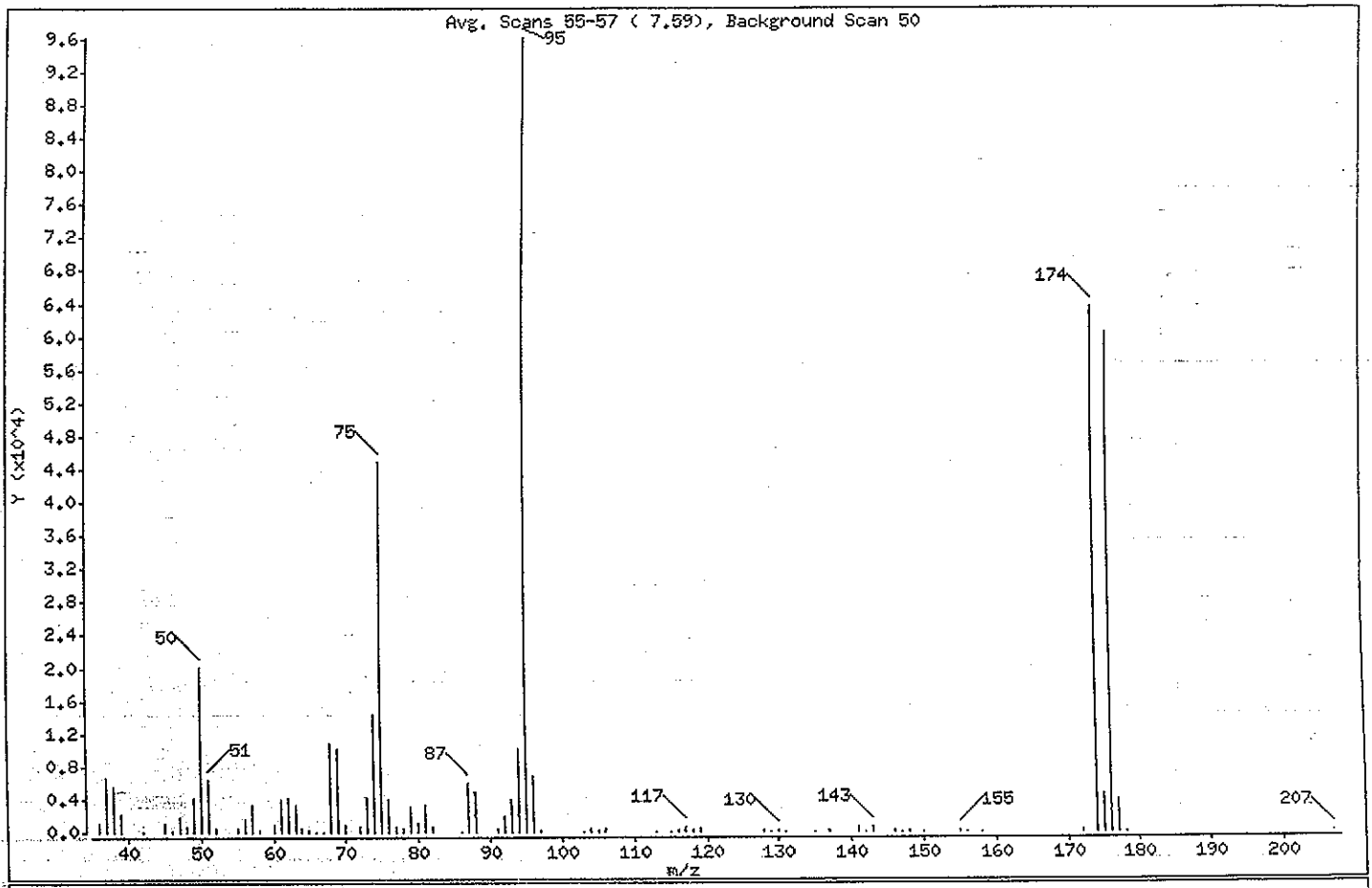
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.80
75	30.00 - 60.00% of mass 95	46.58
96	5.00 - 9.00% of mass 95	7.12
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	66.22
175	5.00 - 9.00% of mass 174	4.91 (7.42)
176	95.01 - 100.99% of mass 174	63.02 (95.18)
177	5.00 - 9.00% of mass 176	4.12 (6.53)

AK 10/12/04

LW 10-11-04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB02.D

Date : 11-OCT-2004 10:00

Client ID: bfb tune std

Instrument: MSVOA08.i

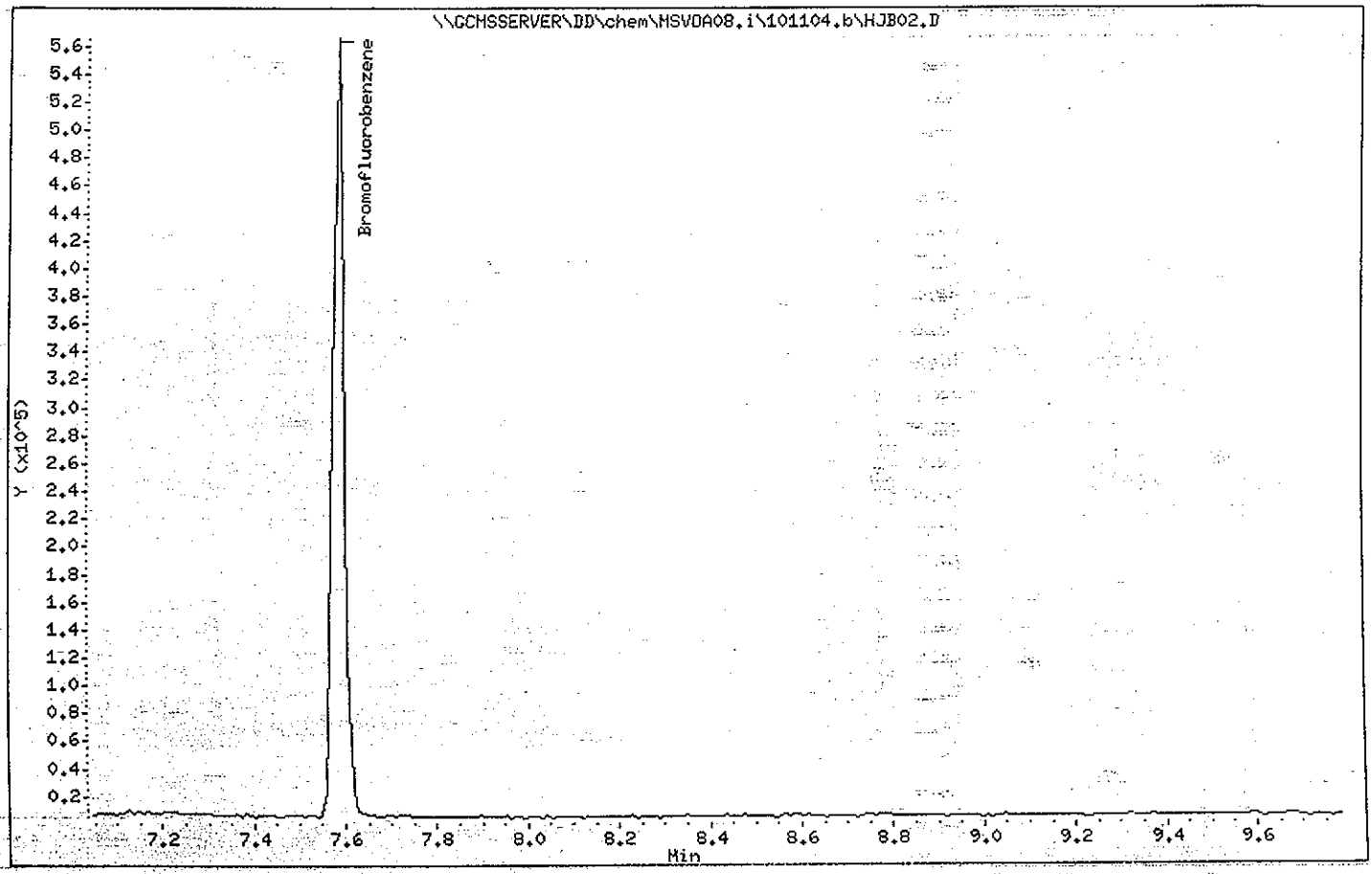
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB02.D

Date : 11-OCT-2004 10:00

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

Data File: HJB02.D

Spectrum: Avg. Scans 55-57 (7.59), Background Scan 50

Location of Maximum: 95.00

Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1162	64.00	373	91.00	366	135.00	53
37.00	6664	65.00	123	92.00	2018	137.00	147
38.00	5464	66.00	63	93.00	4031	141.00	560
39.00	2191	67.00	110	94.00	10078	142.00	68
42.00	56	68.00	10772	95.00	96168	143.00	653
45.00	1124	69.00	10184	96.00	6851	146.00	171
46.00	196	70.00	859	97.00	250	147.00	54
47.00	1746	72.00	567	103.00	50	148.00	135
48.00	767	73.00	4231	104.00	356	150.00	61
49.00	4244	74.00	14434	105.00	206	155.00	221
50.00	20096	75.00	44800	106.00	357	156.00	60
51.00	6479	76.00	3943	113.00	58	158.00	51
52.00	371	77.00	682	115.00	73	172.00	128
55.00	341	78.00	539	116.00	275	174.00	63680
56.00	1610	79.00	3123	117.00	564	175.00	4726
57.00	3293	80.00	1001	118.00	249	176.00	60608
58.00	189	81.00	3258	119.00	464	177.00	3960
60.00	883	82.00	682	128.00	288	178.00	51
61.00	4075	86.00	56	129.00	55	207.00	51
62.00	4148	87.00	5987	130.00	321		
63.00	3390	88.00	4807	131.00	73		

8260 ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Manual Integrations are for splitting

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	hie11	474372175011	1.0/0.5 PPB	14-SEP-2004 17:11	04SS331 (500000X), 04WS1422E (500000X), 04WS1715A (1000000X), 04WS1453C (5000X)
2	hie12	474372175012	5 PPB	14-SEP-2004 17:47	04SS331 (100000X), 04WS1422E (50000X), 04WS1715A (200000X), 04WS1453C (5000X)
3	hie13	474372175013	10 PPB	14-SEP-2004 18:23	04SS331 (50000X), 04WS1422E (25000X), 04WS1715A (100000X), 04WS1453C (5000X)
4	hie14	474372175014	20 PPB	14-SEP-2004 18:59	04SS331 (25000X), 04WS1422E (12500X), 04WS1715A (50000X), 04WS1453C (5000X)
5	hie15	474372175015	50 PPB	14-SEP-2004 19:35	04SS331 (10000X), 04WS1422E (5000X), 04WS1715A (20000X), 04WS1453C (5000X)
6	hie16	474372175016	75 PPB	14-SEP-2004 20:12	04SS331 (6667X), 04WS1422E (3333X), 04WS1715A (13333X), 04WS1453C (5000X)
7	hie17	474372175017	100 PPB	14-SEP-2004 20:48	04SS331 (5000X), 04WS1422E (2500X), 04WS1715A (10000X), 04WS1453C (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4578	0.4232	0.4493	0.4397	0.4224	0.4372	0.4383	AVRG	R		2.283820		ug/L	0.4379	3	0.0500	0.99	15	
Chloromethane	0.4161	0.4677	0.4318	0.4244	0.4172	0.4280	0.4155	AVRG	R		2.332771		ug/L	0.4287	4	0.1000	0.99	15	
Vinyl Chloride	0.2965	0.3146	0.3015	0.3044	0.2794	0.2849	0.2784	AVRG	R		3.398561		ug/L	0.2942	5	0.0500	0.99	15	
Bromomethane	0.1483	0.1533	0.1692	0.1814	0.1946	0.2163		AVRG	R		5.643466		ug/L	0.1772	15	0.0500	0.99	15	
Chloroethane	0.1791	0.1976	0.1937	0.1891	0.1866	0.1936	0.1864	AVRG	R		5.278693		ug/L	0.1894	3	0.0500	0.99	15	
Trichlorofluoromethane	0.5127	0.4919	0.5154	0.5145	0.5059	0.5135	0.5164	AVRG	R		1.960390		ug/L	0.5101	2	0.0500	0.99	15	
Acetone		0.2178	0.1481	0.1445	0.1491	0.1523		LINR	R	-0.44153	6.663410		ug/L	0.1624	0.998	0.0500	0.99	15	
Freon 113	0.3591	0.2728	0.2989	0.2833	0.2862	0.2962	0.2971	AVRG	R		3.343482		ug/L	0.2991	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3131	0.2901	0.3040	0.2914	0.2896	0.2943	0.2938	AVRG	R		3.371720		ug/L	0.2966	3	0.0500	0.99	15	
Methylene Chloride		0.4282	0.3904	0.3766	0.3739	0.3672	0.3712	AVRG	R		2.600248		ug/L	0.3846	6	0.0500	0.99	15	
Carbon Disulfide	1.2036	1.1669	1.1533	1.1227	1.1227	1.1241	1.1456	AVRG	R		0.8707		ug/L	1.1484	3	0.0500	0.99	15	
MTBE	0.8012	0.8837	0.8138	0.8256	0.8140	0.8051	0.8265	AVRG	R		1.21316		ug/L	0.8243	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.3615	0.3580	0.3353	0.3231	0.3252	0.3222	0.3317	AVRG	R		2.969970		ug/L	0.3367	5	0.0500	0.99	15	
Vinyl Acetate	1.0732	1.0151	0.9125	0.9224	0.8903	0.8853	0.8874	AVRG	R		1.062833		ug/L	0.9409	8	0.0500	0.99	15	
1,1-Dichloroethane	0.6204	0.6659	0.6141	0.6099	0.6000	0.5911	0.5910	AVRG	R		1.630768		ug/L	0.6132	4	0.1000	0.99	15	
2-Butanone		0.2519	0.2088	0.2041	0.1962	0.1967	0.1824	AVRG	R		4.838185		ug/L	0.2067	12	0.0500	0.99	15	
2,2-Dichloropropane	0.4639	0.4500	0.4473	0.4224	0.4195	0.4217	0.4254	AVRG	R		2.294948		ug/L	0.4357	4	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.3277	0.3768	0.3522	0.3423	0.3421	0.3417	0.3409	AVRG	R		2.888269		ug/L	0.3462	4	0.0500	0.99	15	

ICAL OK except 2-Chloro Failed and did not meet min RF ICV OK [illegible]

Flags used: irf=ICAL minimum RF failure m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

LW 9-15-04

09/15/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Type: WATER Reviewed By:
Calnum: 474372175001 Name: I8M826W Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.5918	0.6264	0.5846	0.5826	0.5802	0.5678	0.5826	AVRG	R		1.700656		ug/L	0.5880	3	0.0500	0.99	15	
Bromochloromethane	0.1631	0.1738	0.1681	0.1650	0.1695	0.1661	0.1691	AVRG	R		5.959235		ug/L	0.1678	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.4074	0.4400	0.4316	0.4208	0.4255	0.4286	0.4368	AVRG	R		2.340623		ug/L	0.4272	3	0.0500	0.99	15	
1,1-Dichloropropene	0.2926	0.2570	0.2624	0.2530	0.2557	0.2556	0.2592	AVRG	R		3.813686		ug/L	0.2622	5	0.0500	0.99	15	
Carbon Tetrachloride	0.2076	0.1976	0.2047	0.2005	0.2046	0.2089	0.2103	AVRG	R		4.880711		ug/L	0.2049	2	0.0500	0.99	15	
1,2-Dichloroethane	0.2494	0.2876	0.2646	0.2615	0.2649	0.2572	0.2631	AVRG	R		3.787093		ug/L	0.2641	4	0.0500	0.99	15	
Benzene	0.8221	0.8000	0.7346	0.7167	0.7232	0.7156	0.7153	AVRG	R		1.339325		ug/L	0.7466	6	0.0500	0.99	15	
Trichloroethene	0.1931	0.1961	0.1865	0.1772	0.1821	0.1797	0.1814	AVRG	R		5.400411		ug/L	0.1852	4	0.0500	0.99	15	
1,2-Dichloropropane	0.1988	0.2091	0.1942	0.1935	0.1966	0.1901	0.1912	AVRG	R		5.111756		ug/L	0.1956	3	0.0500	0.99	15	
Bromodichloromethane	0.2704	0.2749	0.2568	0.2546	0.2573	0.2545	0.2570	AVRG	R		3.835302		ug/L	0.2607	3	0.0500	0.99	15	
Dibromomethane	0.1507	0.1580	0.1472	0.1471	0.1475	0.1437	0.1466	AVRG	R		6.726260		ug/L	0.1487	3	0.0500	0.99	15	
2-Chloroethylvinylether			3.1E-4	3.0E-4m	3.3E-4	3.4E-4m	2.8E-4	AVRG	R		3200.680		ug/L	3.1E-4	8	0.0500	0.99	15	irf ***
4-Methyl-2-Pentanone		0.2687	0.2376	0.2474	0.2295	0.2288	0.2280	AVRG	R		4.166635		ug/L	0.2400	7	0.0500	0.99	15	
Tetramethyl THF	0.5980	0.5094	0.4794	0.4713	0.4607	0.4528	0.4547	AVRG	R		2.043063		ug/L	0.4895	11	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.3230	0.3369	0.3002	0.3123	0.3116	0.3091	0.3091	AVRG	R		3.165771		ug/L	0.3159	3	0.0500	0.99	15	
Toluene	0.4291	0.4477	0.4262	0.4121	0.4107	0.4113	0.4100	AVRG	R		2.375258		ug/L	0.4210	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.2749	0.2959	0.2779	0.2745	0.2838	0.2782	0.2794	AVRG	R		3.563041		ug/L	0.2807	3	0.0500	0.99	15	
1,1,2-Trichloroethane	0.0976	0.1166	0.0997	0.0994	0.1044	0.1022	0.1033	AVRG	R		9.650696		ug/L	0.1036	7	0.0500	0.99	15	
2-Hexanone		0.3340	0.1949	0.2041	0.1964	0.1961	0.1898	AVRG	R		4.936653		ug/L	0.2026	8	0.0500	0.99	15	
1,3-Dichloropropane	0.3475	0.3861	0.3573	0.3596	0.3588	0.3529	0.3420	AVRG	R		2.795335		ug/L	0.3577	4	0.0500	0.99	15	
Tetrachloroethene	0.1804	0.1898	0.1938	0.1843	0.1893	0.1902	0.1867	AVRG	R		5.324905		ug/L	0.1878	2	0.0500	0.99	15	
Dibromochloromethane	0.2093	0.2439	0.2327	0.2279	0.2321	0.2306	0.2299	AVRG	R		4.357680		ug/L	0.2295	4	0.0500	0.99	15	
1,2-Dibromoethane	0.1897	0.2031	0.1904	0.1925	0.1901	0.1865	0.1888	AVRG	R		5.219081		ug/L	0.1916	3	0.0500	0.99	15	
Chlorobenzene	0.5713	0.6046	0.5704	0.5706	0.5546	0.5507	0.5488	AVRG	R		1.762829		ug/L	0.5673	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.1802	0.1979	0.1906	0.1851	0.1899	0.1875	0.1900	AVRG	R		5.298756		ug/L	0.1887	3	0.0500	0.99	15	
Ethylbenzene	0.9731	1.0360	0.9919	0.9603	0.9807	0.9799	0.9645	AVRG	R		1.016491		ug/L	0.9838	3	0.0500	0.99	15	
m,p-Xylenes	0.3406	0.3823	0.3636	0.3477	0.3497	0.3408	0.3319	AVRG	R		2.849415		ug/L	0.3509	5	0.0500	0.99	15	
o-Xylene	0.3539	0.3726	0.3592	0.3455	0.3430	0.3315	0.3270	AVRG	R		2.877512		ug/L	0.3475	5	0.0500	0.99	15	
Styrene	0.6016	0.6460	0.6121	0.6000	0.5965	0.5769	0.5697	AVRG	R		1.665608		ug/L	0.6004	4	0.0500	0.99	15	
Bromoform	0.2008	0.1793	0.1603	0.1601	0.1613	0.1612	0.1624	AVRG	R		5.904960		ug/L	0.1693	9	0.1000	0.99	15	
Isopropylbenzene	1.8431	1.9822	1.8570	1.8870	1.8667	1.8079	1.8292	AVRG	R		0.535452		ug/L	1.8676	3	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Type: WATER Reviewed By:
Calnum: 474372175001 Name: I8M826W Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.6175	0.7120	0.6471	0.6776	0.6560	0.6383	0.6403	AVRG	R		1.525464		ug/L	0.6555	5	0.3000	0.99	15	
1,2,3-Trichloropropane	0.2310	0.1768	0.1595	0.1637	0.1598	0.1515	0.1559	LINR	R	-0.65937	6.496474		ug/L	0.1712	0.999	0.0500	0.99	15	
Propylbenzene	2.3723	2.5907	2.4320	2.4427	2.4094	2.3244	2.3164	AVRG	R		0.41449		ug/L	2.4126	4	0.0500	0.99	15	
Bromobenzene	0.4520	0.5010	0.4638	0.4597	0.4681	0.4460	0.4491	AVRG	R		2.160662		ug/L	0.4628	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.5079	1.6238	1.5450	1.5431	1.5400	1.5007	1.4897	AVRG	R		0.651147		ug/L	1.5358	3	0.0500	0.99	15	
2-Chlorotoluene	1.6287	1.7247	1.6394	1.5893	1.5655	1.5262	1.5185	AVRG	R		0.625424		ug/L	1.5989	5	0.0500	0.99	15	
4-Chlorotoluene	1.4676	1.6347	1.4424	1.4646	1.5077	1.4736	1.4496	AVRG	R		0.670489		ug/L	1.4914	4	0.0500	0.99	15	
tert-Butylbenzene	1.3062	1.4369	1.3640m	1.4059	1.3585	1.3642	1.3537	AVRG	R		0.729971		ug/L	1.3699	3	0.0500	0.99	15	
1,2,4-Trimethylbenzene	1.5289	1.7224	1.5669	1.5669	1.5627	1.5399	1.5221	AVRG	R		0.635795		ug/L	1.5728	4	0.0500	0.99	15	
sec-Butylbenzene	2.2267	2.2076	2.1437	2.1005	2.0903	2.0668	2.0689	AVRG	R		0.469471		ug/L	2.1301	3	0.0500	0.99	15	
para-Isopropyl Toluene	1.5622	1.7431	1.6593	1.6485	1.6402	1.6187	1.6245	AVRG	R		0.607810		ug/L	1.6453	3	0.0500	0.99	15	
1,3-Dichlorobenzene	0.8936	0.9687	0.8847	0.8522	0.8708	0.8459	0.8644	AVRG	R		1.130817		ug/L	0.8843	5	0.0500	0.99	15	
1,4-Dichlorobenzene	0.8787	0.9883	0.9005	0.8883	0.9083	0.8838	0.8773	AVRG	R		1.106680		ug/L	0.9036	4	0.0500	0.99	15	
n-Butylbenzene	1.6149	1.7166	1.6681	1.6717	1.6658	1.6308	1.6270	AVRG	R		0.603714		ug/L	1.6564	2	0.0500	0.99	15	
1,2-Dichlorobenzene	0.8292	0.9182	0.8464	0.8528	0.8392	0.8242	0.8309	AVRG	R		1.178285		ug/L	0.8487	4	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1142m	0.1235	0.1084	0.1138	0.1072	0.1055	0.1065	AVRG	R		8.983715		ug/L	0.1113	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.5203	0.5626	0.5239	0.5439	0.5403	0.5277	0.5378	AVRG	R		1.863494		ug/L	0.5366	3	0.0500	0.99	15	
Hexachlorobutadiene	0.2030	0.2118	0.2180	0.2181	0.2135	0.2174	0.2225	AVRG	R		4.662283		ug/L	0.2145	3	0.0500	0.99	15	
Naphthalene	1.0888	1.3360	1.3562	1.3762	1.4356	1.3759	1.4424	AVRG	R		0.751792		ug/L	1.3302	9	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.5130	0.5648	0.5208	0.5362	0.5353	0.5283	0.5309	AVRG	R		1.876054		ug/L	0.5330	3	0.0500	0.99	15	
Dibromofluoromethane	0.6060	0.6161	0.6039	0.6052	0.6039	0.6096	0.6134	AVRG	R		1.643906		ug/L	0.6083	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4070	0.3999	0.3972	0.3984	0.3923	0.3936	0.4040	AVRG	R		2.506887		ug/L	0.3989	1	0.0500	0.99	15	
Trifluorotoluene	0.2466	0.2556	0.2501	0.2468	0.2528	0.2529	0.2580	AVRG	R		3.941859		ug/L	0.2537	2	0.0500	0.99	15	
Toluene-d8	1.0020	0.9920	0.9922	0.9855	0.9751	0.9873	0.9875	AVRG	R		1.011318		ug/L	0.9888	1	0.0500	0.99	15	
Bromofluorobenzene	1.1576	1.1733	1.1553	1.1695	1.1602	1.1664	1.1479	AVRG	R		0.860994		ug/L	1.1614	1	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 17:11 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.002/1000,04WS1422E,0.002/1000,
Misc Info : 04WS1715A,0.001/1000,1.0/0.5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 17:11 Cal File: HIE11.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.121	3.135	(0.364)	19073	1.00000	1.0456
2 Chloromethane	50	3.476	3.460	(0.405)	17336	1.00000	0.9707
3 Vinyl Chloride	62	3.614	3.598	(0.421)	12350	1.00000	1.0075
4 Bromomethane	94	4.216	4.219	(0.491)	6178	1.00000	0.8369
5 Chloroethane	64	4.334	4.338	(0.505)	7461	1.00000	0.9453
6 Trichlorofluoromethane	101	4.758	4.762	(0.554)	21359	1.00000	1.0050
7 Acetone	43	5.300	5.304	(0.618)	13799	0.50000	1.7656
8 Freon 113	101	5.418	5.422	(0.631)	7480	0.50000	0.6003
9 1,1-Dichloroethene	96	5.596	5.600	(0.652)	6522	0.50000	0.5278
10 Methylene Chloride	84	6.207	6.211	(0.723)	12761	0.50000	0.7964
11 Carbon Disulfide	76	6.296	6.300	(0.734)	25071	0.50000	0.5240
12 MTBE	73	6.562	6.546	(0.765)	16689	0.50000	0.4860(a)
13 trans-1,2-Dichloroethene	96	6.710	6.704	(0.782)	7530	0.50000	0.5368
14 Vinyl Acetate	43	7.242	7.236	(0.844)	22354	0.50000	0.5703
15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	12922	0.50000	0.5058
16 2-Butanone	43	7.824	7.808	(0.912)	9042	0.50000	1.0501
17 2,2-Dichloropropane	77	8.130	8.134	(0.947)	9662	0.50000	0.5322
18 cis-1,2-Dichloroethene	96	8.130	8.134	(0.947)	6825	0.50000	0.4731(a)
19 Chloroform	83	8.386	8.380	(0.977)	12328	0.50000	0.5032
* 20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2082978	50.0000	
21 Bromochloromethane	128	8.574	8.577	(0.999)	3397	0.50000	0.4859(a)
$ 22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1262234	50.0000	49.8083

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.047	9.041	(1.054)	8487	0.50000	0.4768(a)
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	10568	0.50000	0.5579
$	25 1,2-Dichloroethane-d4	65	9.402	9.396	(0.935)	1469944	50.0000	51.0108
	26 Carbon Tetrachloride	117	9.461	9.465	(0.941)	7500	0.50000	0.5067
	27 1,2-Dichloroethane	62	9.530	9.534	(0.948)	9007	0.50000	0.4721(a)
	28 Benzene	78	9.648	9.642	(0.960)	29693	0.50000	0.5505
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	3611963	50.0000	
	30 Trichloroethene	95	10.605	10.618	(1.055)	6974	0.50000	0.5213
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	8908	0.50000	0.4860(aA)
	32 1,2-Dichloropropane	63	10.841	10.835	(1.078)	7179	0.50000	0.5079
	33 Bromodichloromethane	83	11.167	11.160	(1.111)	9765	0.50000	0.5184
	34 Dibromomethane	93	11.216	11.210	(1.116)	5443	0.50000	0.5068
	36 4-Methyl-2-Pentanone	43	11.738	11.732	(1.168)	12136	0.50000	0.6999
	37 Tetramethyl THF	43	11.936	11.920	(1.187)	21599	0.50000	0.6108(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	11666	0.50000	0.5112
$	39 Toluene-d8	98	12.517	12.521	(1.245)	36193	50.0000	50.6687
	40 Toluene	92	12.645	12.649	(1.258)	15499	0.50000	0.5096
	41 trans-1,3-Dichloropropene	75	12.823	12.827	(1.276)	9930	0.50000	0.4897(a)
	42 1,1,2-Trichloroethane	85	13.099	13.093	(1.303)	3524	0.50000	0.4707(a)
	43 2-Hexanone	43	13.158	13.152	(0.875)	9622	0.50000	0.7962
	44 1,3-Dichloropropane	76	13.503	13.507	(0.898)	10365	0.50000	0.4856(a)
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	5381	0.50000	0.4802(a)
	46 Dibromochloromethane	129	13.957	13.961	(0.928)	6242	0.50000	0.4559(a)
	47 1,2-Dibromoethane	107	14.322	14.315	(1.425)	6852	0.50000	0.4950(a)
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	2982900	50.0000	
	49 Chlorobenzene	112	15.100	15.104	(1.004)	17041	0.50000	0.5035
	50 1,1,1,2-Tetrachloroethane	131	15.160	15.173	(1.008)	5375	0.50000	0.4774(a)
	51 Ethylbenzene	91	15.238	15.232	(1.013)	29027	0.50000	0.4945(a)
	52 m,p-Xylenes	106	15.396	15.390	(1.024)	20320	1.00000	0.9705
	53 o-Xylene	106	16.146	16.139	(1.073)	10556	0.50000	0.5091
	54 Styrene	104	16.165	16.159	(1.075)	17944	0.50000	0.5009
	55 Bromoform	173	16.648	16.652	(1.107)	5990	0.50000	0.5928
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	25989	0.50000	0.4934(a)
	57 1,1,2,2-Tetrachloroethane	83	16.964	16.958	(0.877)	8708	0.50000	0.4710(a)
$	58 Bromofluorobenzene	95	17.171	17.165	(0.888)	1632293	50.0000	49.8335
	60 Bromobenzene	156	17.526	17.520	(0.906)	6174	0.50000	0.4883(a)
	61 Propylbenzene	91	17.526	17.520	(0.906)	33452	0.50000	0.4916(a)
	62 2-Chlorotoluene	91	17.802	17.796	(0.920)	23966	0.50000	0.5093
	63 1,3,5-Trimethylbenzene	105	17.812	17.816	(0.921)	21263	0.50000	0.4909(a)
	64 4-Chlorotoluene	91	17.891	17.885	(0.925)	21696	0.50000	0.4919(a)
	65 tert-Butylbenzene	119	18.463	18.456	(0.955)	18418	0.50000	0.4767(a)
	66 1,2,4-Trimethylbenzene	105	18.522	18.525	(0.958)	21559	0.50000	0.4860(a)
	67 sec-Butylbenzene	105	18.857	18.861	(0.975)	31398	0.50000	0.5226
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	22028	0.50000	0.4747(a)
	69 1,3-Dichlorobenzene	146	19.212	19.216	(0.993)	12600	0.50000	0.5052
*	70 1,4-Dichlorobenzene-d4	152	19.340	19.334	(1.000)	1410089	50.0000	
	71 1,4-Dichlorobenzene	146	19.389	19.393	(1.003)	12391	0.50000	0.4862(a)
	72 n-Butylbenzene	91	19.863	19.866	(1.027)	22772	0.50000	0.4874(a)
	73 1,2-Dichlorobenzene	146	20.060	20.064	(1.037)	11692	0.50000	0.4884(a)
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	1610	0.50000	0.5128(M)
	75 1,2,4-Trichlorobenzene	180	23.057	23.061	(1.192)	7337	0.50000	0.4848(a)
	76 Hexachlorobutadiene	225	23.353	23.357	(1.207)	2863	0.50000	0.4733(a)
	77 Naphthalene	128	23.422	23.426	(1.211)	15353	0.50000	0.4092(a)
	78 1,2,3-Trichlorobenzene	180	23.836	23.840	(1.232)	7234	0.50000	0.4812(a)

L-W 9-15-04

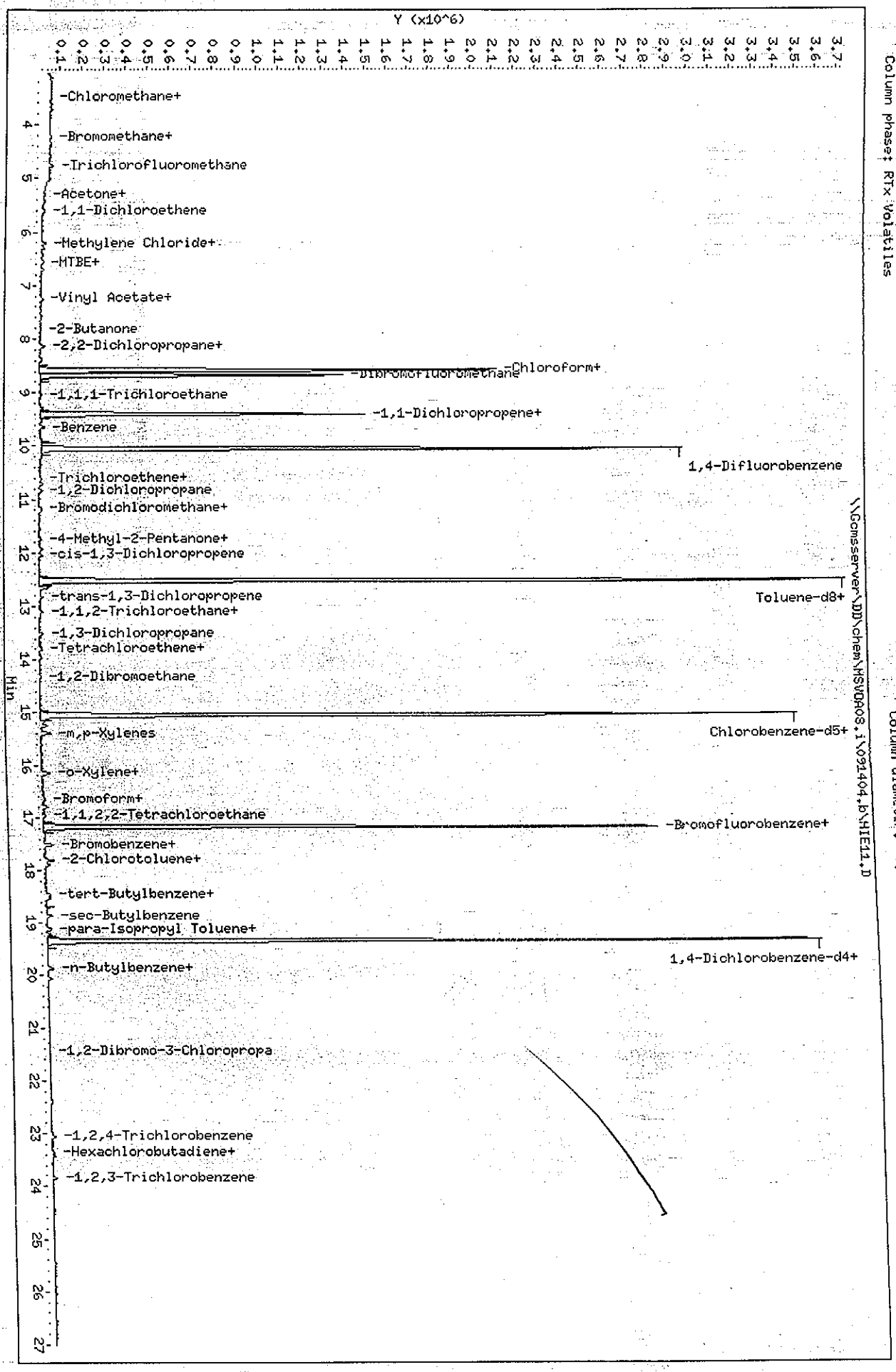
Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA08.i\091404.b\HIE11.D
Date : 14-SEP-2004 17:11
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.002/1000,04WS1422E,0.002/1000,
Purge Volume: 5.0
Column phase: RTx-Volatiles

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 17:47 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.005/500,04WS1422E,0.01/500,
Misc Info : 04WS1715A,0.0025/500,5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 17:47 Cal File: HIE12.D
Als bottle: 12 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.125	3.115	(0.364)	90037	5.00000	4.8328
2 Chloromethane	50	3.470	3.460	(0.405)	39191	5.00000	5.4547
3 Vinyl Chloride	62	3.624	3.590	(0.422)	[illegible]	5.00000	5.3464
4 Bromomethane	94	4.219	4.219	(0.492)	[illegible]	5.00000	4.3265
5 Chloroethane	64	4.347	4.338	(0.507)	42046	5.00000	5.2164
6 Trichlorofluoromethane	101	4.761	4.762	(0.555)	104649	5.00000	4.8216
7 Acetone	43	5.303	5.304	(0.618)	[illegible]	5.00000	6.8158
8 Freon 113	101	5.432	5.422	(0.633)	58040	5.00000	4.5608
9 1,1-Dichloroethene	96	5.599	5.600	(0.653)	61714	5.00000	4.8905
10 Methylene Chloride	84	6.211	6.211	(0.724)	91102	5.00000	5.5675
11 Carbon Disulfide	76	6.299	6.300	(0.734)	248247	5.00000	5.0805
12 MTBE	73	6.546	6.546	(0.763)	188009	5.00000	5.3607
13 trans-1,2-Dichloroethene	96	6.704	6.704	(0.782)	76153	5.00000	5.3156
14 Vinyl Acetate	43	7.236	7.236	(0.844)	215951	5.00000	5.3943
15 1,1-Dichloroethane	63	7.265	7.266	(0.847)	141662	5.00000	5.4295
16 2-Butanone	43	7.818	7.808	(0.911)	53599	5.00000	6.0947
17 2,2-Dichloropropane	77	8.133	8.134	(0.948)	95739	5.00000	5.1639
18 cis-1,2-Dichloroethene	96	8.143	8.134	(0.949)	80151	5.00000	5.4408
19 Chloroform	83	8.380	8.380	(0.977)	133253	5.00000	5.3261
* 20 Pentafluorobenzene	168	8.577	8.577	(1.000)	2127403	50.0000	
21 Bromochloromethane	128	8.577	8.577	(1.000)	36966	5.00000	5.1774
$ 22 Dibromofluoromethane	113	8.675	8.676	(1.011)	1310755	50.0000	50.6429

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.040	9.041	(1.054)	93605	5.00000	5.1493
	24 1,1-Dichloropropene	75	9.287	9.287	(0.924)	96006	5.00000	4.9001
$	25 1,2-Dichloroethane-d4	65	9.395	9.396	(0.935)	1493848	50.0000	50.1194
	26 Carbon Tetrachloride	117	9.454	9.465	(0.941)	73839	5.00000	4.8231
	27 1,2-Dichloroethane	62	9.543	9.534	(0.950)	107436	5.00000	5.4452
	28 Benzene	78	9.651	9.642	(0.961)	298871	5.00000	5.3571
*	29 1,4-Difluorobenzene	114	10.046	10.046	(1.000)	3735987	50.0000	
	30 Trichloroethene	95	10.618	10.618	(1.057)	73268	5.00000	5.2954
$	31 Trifluorotoluene	146	10.706	10.707	(1.066)	95485	5.00000	5.0373(A)
	32 1,2-Dichloropropane	63	10.835	10.835	(1.079)	78109	5.00000	5.3436
	33 Bromodichloromethane	83	11.170	11.160	(1.112)	102684	5.00000	5.2706
	34 Dibromomethane	93	11.219	11.210	(1.117)	59036	5.00000	5.3144
	36 4-Methyl-2-Pentanone	43	11.742	11.732	(1.169)	100398	5.00000	5.5985
	37 Tetramethyl THF	43	11.919	11.920	(1.186)	190329	5.00000	5.2041(A)
	38 cis-1,3-Dichloropropene	75	12.037	12.038	(1.198)	125881	5.00000	5.3334
$	39 Toluene-d8	98	12.521	12.521	(1.246)	3706237	50.0000	50.1632
	40 Toluene	92	12.649	12.649	(1.259)	167254	5.00000	5.3168
	41 trans-1,3-Dichloropropene	75	12.826	12.827	(1.277)	110555	5.00000	5.2718
	42 1,1,2-Trichloroethane	85	13.102	13.093	(1.304)	44324	5.00000	5.7248
	43 2-Hexanone	43	13.152	13.152	(0.874)	71164	5.00000	5.7763
	44 1,3-Dichloropropane	76	13.507	13.507	(0.898)	117411	5.00000	5.3963
	45 Tetrachloroethene	166	13.792	13.793	(0.917)	57714	5.00000	5.0530
	46 Dibromochloromethane	129	13.960	13.961	(0.928)	74181	5.00000	5.3150
	47 1,2-Dibromoethane	107	14.315	14.315	(1.425)	75883	5.00000	5.3003
*	48 Chlorobenzene-d5	117	15.045	15.045	(1.000)	3040973	50.0000	
	49 Chlorobenzene	112	15.104	15.104	(1.004)	183859	5.00000	5.3290
	50 1,1,1,2-Tetrachloroethane	131	15.173	15.173	(1.009)	60169	5.00000	5.2420
	51 Ethylbenzene	91	15.242	15.232	(1.013)	315055	5.00000	5.2655
	52 m,p-Xylenes	106	15.390	15.390	(1.023)	232529	10.0000	10.8940
	53 o-Xylene	106	16.139	16.139	(1.073)	113301	5.00000	5.3605
	54 Styrene	104	16.159	16.159	(1.074)	196436	5.00000	5.3796
	55 Bromoform	173	16.652	16.652	(1.107)	54533	5.00000	5.2946
	56 Isopropylbenzene	105	16.800	16.790	(0.869)	384152	5.00000	5.3067
	57 1,1,2,2-Tetrachloroethane	83	16.957	16.958	(0.877)	102065	5.00000	5.4304
$	58 Bromofluorobenzene	95	17.164	17.165	(0.888)	1681974	50.0000	50.5098
	59 1,2,3-Trichloropropane	110	17.224	17.224	(0.891)	25352	5.00000	5.0850
	60 Bromobenzene	156	17.509	17.510	(0.906)	71822	5.00000	5.4125
	61 Propylbenzene	91	17.519	17.520	(0.906)	371396	5.00000	5.3692
	62 2-Chlorotoluene	91	17.805	17.796	(0.921)	247244	5.00000	5.3933
	63 1,3,5-Trimethylbenzene	105	17.815	17.816	(0.921)	232784	5.00000	5.2867
	64 4-Chlorotoluene	91	17.894	17.885	(0.926)	234343	5.00000	5.4802
	65 tert-Butylbenzene	119	18.466	18.456	(0.955)	205986	5.00000	5.2444
	66 1,2,4-Trimethylbenzene	105	18.525	18.525	(0.958)	246918	5.00000	5.4755
	67 sec-Butylbenzene	105	18.860	18.861	(0.976)	316467	5.00000	5.1819
	68 para-Isopropyl Toluene	119	19.117	19.117	(0.989)	249888	5.00000	5.2974
	69 1,3-Dichlorobenzene	146	19.215	19.216	(0.994)	138866	5.00000	5.4770
*	70 1,4-Dichlorobenzene-d4	152	19.333	19.334	(1.000)	1433551	50.0000	
	71 1,4-Dichlorobenzene	146	19.393	19.393	(1.003)	141681	5.00000	5.4687
	72 n-Butylbenzene	91	19.866	19.866	(1.028)	246085	5.00000	5.1817
	73 1,2-Dichlorobenzene	146	20.063	20.064	(1.038)	131623	5.00000	5.4092
	74 1,2-Dibromo-3-Chloropropane	75	21.433	21.434	(1.109)	17708	5.00000	5.5485
	75 1,2,4-Trichlorobenzene	180	23.060	23.061	(1.193)	80646	5.00000	5.2416
	76 Hexachlorobutadiene	225	23.356	23.357	(1.208)	30361	5.00000	4.9370
	77 Naphthalene	128	23.425	23.426	(1.212)	191521	5.00000	5.0219

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

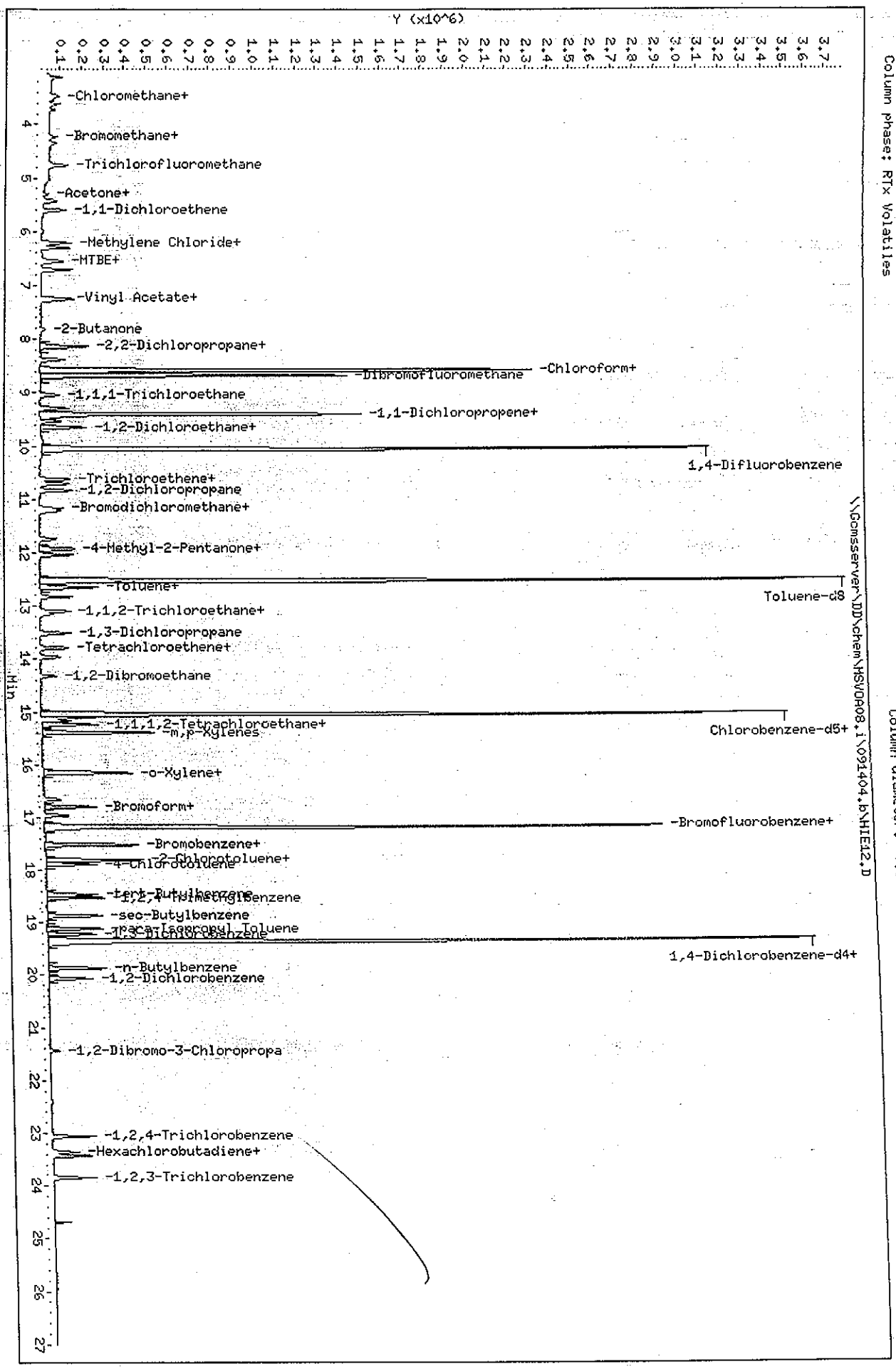
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
78 1,2,3-Trichlorobenzene	180	23.839	23.840	(1.233)	80968	5.00000	5.2980

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\HSVOA08.i\091404.b\HIE12.D
Date : 14-SEP-2004 17:47
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.005/500,04WS1422E,0.01/500,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 18:23 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.002/100,04WS1422E,0.004/100,
Misc Info : 04WS1715A,0.001/100,10 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 18:23 Cal File: HIE13.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.121	3.115	(0.364)	196426	10.0000	10.2608
2 Chloromethane	50	3.466	3.460	(0.404)	188834	10.0000	10.0726
3 Vinyl Chloride	62	3.614	3.598	(0.421)	131874	10.0000	10.2481
4 Bromomethane	94	4.225	4.119	(0.493)	73992	10.0000	9.5482
5 Chloroethane	64	4.343	4.338	(0.506)	84716	10.0000	10.2254
6 Trichlorofluoromethane	101	4.757	4.762	(0.554)	225380	10.0000	10.1029
7 Acetone	43	5.300	5.304	(0.617)	64[illegible]	10.0000	9.4282
8 Freon 113	101	5.428	5.422	(0.632)	130726	10.0000	9.9942
9 1,1-Dichloroethene	96	5.595	5.600	(0.652)	132957	10.0000	10.2507
10 Methylene Chloride	84	6.207	6.211	(0.723)	170742	10.0000	10.1518
11 Carbon Disulfide	76	6.295	6.300	(0.734)	504386	10.0000	10.0429
12 MTBE	73	6.542	6.546	(0.762)	355914	10.0000	9.8732
13 trans-1,2-Dichloroethene	96	6.710	6.704	(0.782)	146627	10.0000	9.9576
14 Vinyl Acetate	43	7.242	7.236	(0.844)	399073	10.0000	9.6985
15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	268576	10.0000	10.0149
16 2-Butanone	43	7.814	7.808	(0.910)	91331	10.0000	10.1039
17 2,2-Dichloropropane	77	8.139	8.134	(0.948)	195610	10.0000	10.2649
18 cis-1,2-Dichloroethene	96	8.139	8.134	(0.948)	154008	10.0000	10.1711
19 Chloroform	83	8.386	8.380	(0.977)	255673	10.0000	9.9424
* 20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2186649	50.0000	
21 Bromochloromethane	128	8.583	8.577	(1.000)	73534	10.0000	10.0200
$ 22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1320514	50.0000	49.6376

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.046	9.041	(1.054)	188735	10.0000	10.1012
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	198839	10.0000	10.0060
$	25 1,2-Dichloroethane-d4	65	9.401	9.396	(0.935)	1504922	50.0000	49.7813
	26 Carbon Tetrachloride	117	9.460	9.465	(0.941)	155101	10.0000	9.9888
	27 1,2-Dichloroethane	62	9.539	9.534	(0.949)	200509	10.0000	10.0197
	28 Benzene	78	9.648	9.642	(0.960)	556709	10.0000	9.8385
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	3789238	50.0000	
	30 Trichloroethene	95	10.624	10.618	(1.057)	141353	10.0000	10.0727
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	197104	10.0000	10.2521(A)
	32 1,2-Dichloropropane	63	10.831	10.835	(1.077)	144902	10.0000	9.7737
	33 Bromodichloromethane	83	11.166	11.160	(1.111)	194457	10.0000	9.8410
	34 Dibromomethane	93	11.215	11.210	(1.116)	111541	10.0000	9.8997
	35 2-Chloroethylvinylether	63	11.708	11.732	(1.165)	235	10.0000	9.9249
	36 4-Methyl-2-Pentanone	43	11.738	11.732	(1.168)	180033	10.0000	9.8981
	37 Tetramethyl THF	43	11.915	11.920	(1.185)	363306	10.0000	9.7942(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	23435	10.0000	9.7897
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3759606	50.0000	50.1704
	40 Toluene	92	12.645	12.649	(1.258)	322965	10.0000	10.1224
	41 trans-1,3-Dichloropropene	75	12.832	12.827	(1.277)	210584	10.0000	9.9006
	42 1,1,2-Trichloroethane	85	13.098	13.093	(1.303)	75593	10.0000	9.6262
	43 2-Hexanone	43	13.148	13.152	(0.874)	119457	10.0000	9.6224
	44 1,3-Dichloropropane	76	13.513	13.507	(0.898)	218994	10.0000	9.9887
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	118772	10.0000	10.3197
	46 Dibromochloromethane	129	13.956	13.961	(0.928)	142616	10.0000	10.1406
	47 1,2-Dibromoethane	107	14.321	14.315	(1.425)	144331	10.0000	9.9396
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	3064269	50.0000	
	49 Chlorobenzene	112	15.110	15.104	(1.005)	349561	10.0000	10.0548
	50 1,1,1,2-Tetrachloroethane	131	15.169	15.173	(1.009)	116782	10.0000	10.0970
	51 Ethylbenzene	91	15.238	15.232	(1.013)	607864	10.0000	10.0821
	52 m,p-Xylenes	106	15.386	15.390	(1.023)	443693	20.0000	20.7221
	53 o-Xylene	106	16.135	16.139	(1.073)	220112	10.0000	10.3348
	54 Styrene	104	16.165	16.159	(1.075)	375152	10.0000	10.1958
	55 Bromoform	173	16.648	16.652	(1.107)	98220	10.0000	9.4636
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	586640	10.0000	9.9434
	57 1,1,2,2-Tetrachloroethane	83	16.963	16.958	(0.877)	190482	10.0000	9.8712
$	58 Bromofluorobenzene	95	17.170	17.165	(0.888)	1700455	50.0000	49.7370
	59 1,2,3-Trichloropropane	110	17.220	17.224	(0.890)	46945	10.0000	9.7011
	60 Bromobenzene	156	17.515	17.510	(0.906)	136532	10.0000	10.0215
	61 Propylbenzene	91	17.525	17.520	(0.906)	715907	10.0000	10.0806
	62 2-Chlorotoluene	91	17.801	17.796	(0.920)	482584	10.0000	10.2532
	63 1,3,5-Trimethylbenzene	105	17.821	17.816	(0.921)	454792	10.0000	10.0602
	64 4-Chlorotoluene	91	17.890	17.885	(0.925)	424598	10.0000	9.6712
	65 tert-Butylbenzene	119	18.462	18.456	(0.955)	401527	10.0000	9.9571(M)
	66 1,2,4-Trimethylbenzene	105	18.521	18.525	(0.958)	461235	10.0000	9.9621
	67 sec-Butylbenzene	105	18.866	18.861	(0.976)	631035	10.0000	10.0641
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	488433	10.0000	10.0852
	69 1,3-Dichlorobenzene	146	19.211	19.216	(0.993)	260411	10.0000	10.0038
*	70 1,4-Dichlorobenzene-d4	152	19.339	19.334	(1.000)	1471822	50.0000	
	71 1,4-Dichlorobenzene	146	19.389	19.393	(1.003)	265064	10.0000	9.9652
	72 n-Butylbenzene	91	19.862	19.866	(1.027)	491028	10.0000	10.0705
	73 1,2-Dichlorobenzene	146	20.059	20.064	(1.037)	249144	10.0000	9.9727
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	31919	10.0000	9.7413
	75 1,2,4-Trichlorobenzene	180	23.056	23.061	(1.192)	154203	10.0000	9.7619
	76 Hexachlorobutadiene	225	23.352	23.357	(1.207)	64169	10.0000	10.1633

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

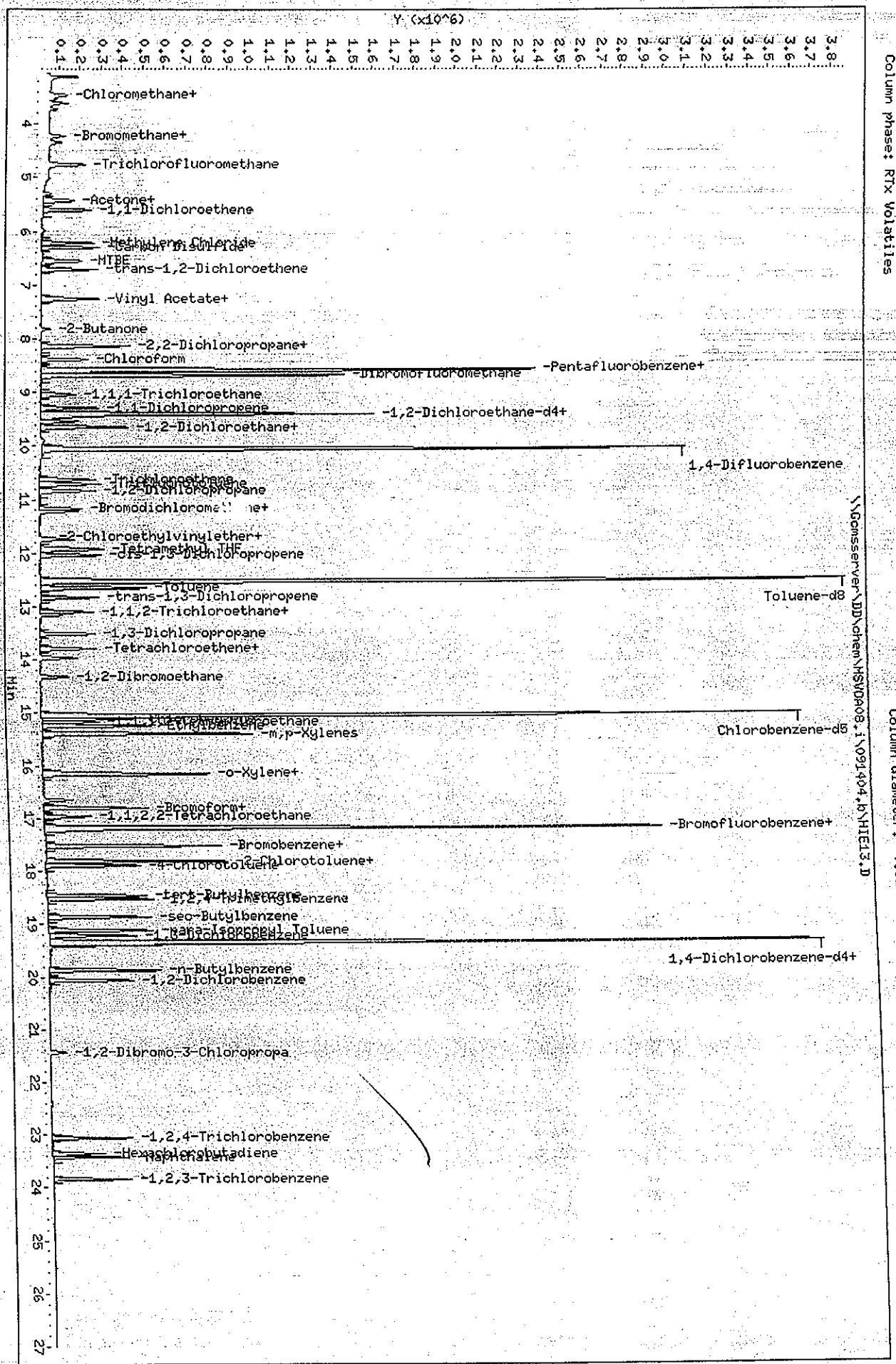
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.421	23.426	(1.211)	369790	10.0000	9.4442
78 1,2,3-Trichlorobenzene	180	23.845	23.840	(1.233)	153894	10.0000	9.8080

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Date : 14-SEP-2004 18:23
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.002/100,04WS1422E,0.004/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 18:59 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.004/100,04WS1422E,0.008/100,
Misc Info : 04WS1715A,0.002/100,20 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 18:59 Cal File: HIE14.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.119	3.115	(0.163)	396112	20.0000	20.0854
2 Chloromethane	50	3.474	3.460	(0.405)	382332	20.0000	19.8022
3 Vinyl Chloride	62	3.612	3.598	(0.421)	174244	20.0000	20.6935
4 Bromomethane	94	4.223	4.219	(0.493)	163439	20.0000	20.4787
5 Chloroethane	64	4.342	4.338	(0.506)	170332	20.0000	19.9617
6 Trichlorofluoromethane	101	4.756	4.762	(0.554)	463855	20.0000	20.1895
7 Acetone	43	5.298	5.304	(0.617)	130198	20.0000	18.8205
8 Freon 113	101	5.426	5.422	(0.632)	255200	20.0000	18.9444
9 1,1-Dichloroethene	96	5.604	5.600	(0.653)	262501	20.0000	19.6509
10 Methylene Chloride	84	6.205	6.211	(0.723)	339196	20.0000	19.5824
11 Carbon Disulfide	76	6.294	6.300	(0.733)	1011322	20.0000	19.5522
12 MTBE	73	6.550	6.546	(0.763)	743684	20.0000	20.0315
13 trans-1,2-Dichloroethene	96	6.708	6.704	(0.782)	291034	20.0000	19.1910
14 Vinyl Acetate	43	7.240	7.236	(0.844)	830907	20.0000	19.6073
15 1,1-Dichloroethane	63	7.260	7.266	(0.846)	549440	20.0000	19.8936
16 2-Butanone	43	7.812	7.808	(0.910)	183864	20.0000	19.7506
17 2,2-Dichloropropane	77	8.137	8.134	(0.948)	380533	20.0000	19.3895
18 cis-1,2-Dichloroethene	96	8.137	8.134	(0.948)	308387	20.0000	19.7758
19 Chloroform	83	8.384	8.380	(0.977)	524798	20.0000	19.8157
* 20 Pentafluorobenzene	168	8.581	8.577	(1.000)	2251998	50.0000	
21 Bromochloromethane	128	8.581	8.577	(1.000)	148601	20.0000	19.6613
$ 22 Dibromofluoromethane	113	8.670	8.676	(1.010)	1363017	50.0000	49.7485

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.044	9.041	(1.054)	379024	20.0000	19.6970
	24 1,1-Dichloropropene	75	9.291	9.287	(0.924)	395612	20.0000	19.2989
$	25 1,2-Dichloroethane-d4	65	9.399	9.396	(0.935)	1557327	50.0000	49.9382
	26 Carbon Tetrachloride	117	9.459	9.465	(0.941)	313446	20.0000	19.5688
	27 1,2-Dichloroethane	62	9.537	9.534	(0.949)	409053	20.0000	19.8154
	28 Benzene	78	9.646	9.642	(0.960)	1118987	20.0000	19.1703
*	29 1,4-Difluorobenzene	114	10.050	10.046	(1.000)	3908873	50.0000	
	30 Trichloroethene	95	10.622	10.618	(1.057)	277097	20.0000	19.1415
$	31 Trifluorotoluene	146	10.711	10.707	(1.066)	388944	20.0000	19.6113(A)
	32 1,2-Dichloropropane	63	10.829	10.835	(1.077)	300948	20.0000	19.6779
	33 Bromodichloromethane	83	11.164	11.160	(1.111)	398111	20.0000	19.5308
	34 Dibromomethane	93	11.214	11.210	(1.116)	229942	20.0000	19.7838
	35 2-Chloroethylvinylether	63	11.746	11.732	(1.169)	467	20.0000	19.1195(M) LW9-15-04
	36 4-Methyl-2-Pentanone	43	11.736	11.732	(1.168)	386754	20.0000	20.6128
	37 Tetramethyl THF	43	11.923	11.920	(1.186)	736855	20.0000	19.2567(A)
	38 cis-1,3-Dichloropropene	75	12.032	12.038	(1.197)	488227	20.0000	19.7705
$	39 Toluene-d8	98	12.515	12.521	(1.245)	3852146	50.0000	49.8320
	40 Toluene	92	12.643	12.649	(1.258)	644302	20.0000	19.5757
	41 trans-1,3-Dichloropropene	75	12.830	12.827	(1.277)	429212	20.0000	19.5619
	42 1,1,2-Trichloroethane	85	13.097	13.093	(1.303)	155492	20.0000	19.1948
	43 2-Hexanone	43	13.156	13.152	(0.875)	260385	20.0000	20.1532
	44 1,3-Dichloropropane	76	13.511	13.507	(0.898)	458747	20.0000	20.1049
	45 Tetrachloroethene	166	13.787	13.793	(0.917)	235135	20.0000	19.6302
	46 Dibromochloromethane	129	13.964	13.961	(0.929)	290685	20.0000	19.8597
	47 1,2-Dibromoethane	107	14.319	14.315	(1.425)	301038	20.0000	20.0971
*	48 Chlorobenzene-d5	117	15.039	15.045	(1.000)	3189145	50.0000	
	49 Chlorobenzene	112	15.108	15.104	(1.005)	727840	20.0000	20.1160
	50 1,1,1,2-Tetrachloroethane	131	15.167	15.173	(1.009)	236108	20.0000	19.6146
	51 Ethylbenzene	91	15.236	15.232	(1.013)	1225036	20.0000	19.5230
	52 m,p-Xylenes	106	15.384	15.390	(1.023)	887132	40.0000	39.6314
	53 o-Xylene	106	16.133	16.139	(1.073)	440771	20.0000	19.8850
	54 Styrene	104	16.163	16.159	(1.075)	765352	20.0000	19.9861
	55 Bromoform	173	16.656	16.652	(1.108)	204257	20.0000	18.9099
	56 Isopropylbenzene	105	16.794	16.790	(0.868)	1130458	20.0000	20.2083
	57 1,1,2,2-Tetrachloroethane	83	16.962	16.958	(0.877)	398729	20.0000	20.6722
$	58 Bromofluorobenzene	95	17.159	17.165	(0.888)	1720582	50.0000	50.3480
	59 1,2,3-Trichloropropane	110	17.224	17.224	(0.891)	96348	20.0000	20.6136
	60 Bromobenzene	156	17.514	17.510	(0.906)	270536	20.0000	19.8664
	61 Propylbenzene	91	17.524	17.520	(0.906)	1437438	20.0000	20.2495
	62 2-Chlorotoluene	91	17.800	17.796	(0.920)	935274	20.0000	19.8802
	63 1,3,5-Trimethylbenzene	105	17.819	17.816	(0.922)	980045	20.0000	20.0952
	64 4-Chlorotoluene	91	17.888	17.885	(0.925)	1361872	20.0000	19.6402
	65 tert-Butylbenzene	119	18.460	18.456	(0.955)	827320	20.0000	20.5254
	66 1,2,4-Trimethylbenzene	105	18.519	18.525	(0.958)	922857	20.0000	19.9251
	67 sec-Butylbenzene	105	18.864	18.861	(0.976)	1236072	20.0000	19.7224
	68 para-Isopropyl Toluene	119	19.111	19.117	(0.988)	970244	20.0000	20.0427
	69 1,3-Dichlorobenzene	146	19.219	19.216	(0.994)	507982	20.0000	19.5000
*	70 1,4-Dichlorobenzene-d4	152	19.338	19.334	(1.000)	1471168	50.0000	
	71 1,4-Dichlorobenzene	146	19.397	19.393	(1.003)	522713	20.0000	19.6604
	72 n-Butylbenzene	91	19.860	19.866	(1.027)	983723	20.0000	20.1842
	73 1,2-Dichlorobenzene	146	20.057	20.064	(1.037)	501873	20.0000	20.0979
	74 1,2-Dibromo-3-Chloropropane	75	21.428	21.434	(1.108)	66994	20.0000	20.4550
	75 1,2,4-Trichlorobenzene	180	23.065	23.061	(1.193)	320062	20.0000	20.2707
	76 Hexachlorobutadiene	225	23.360	23.357	(1.208)	126583	20.0000	20.0577

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

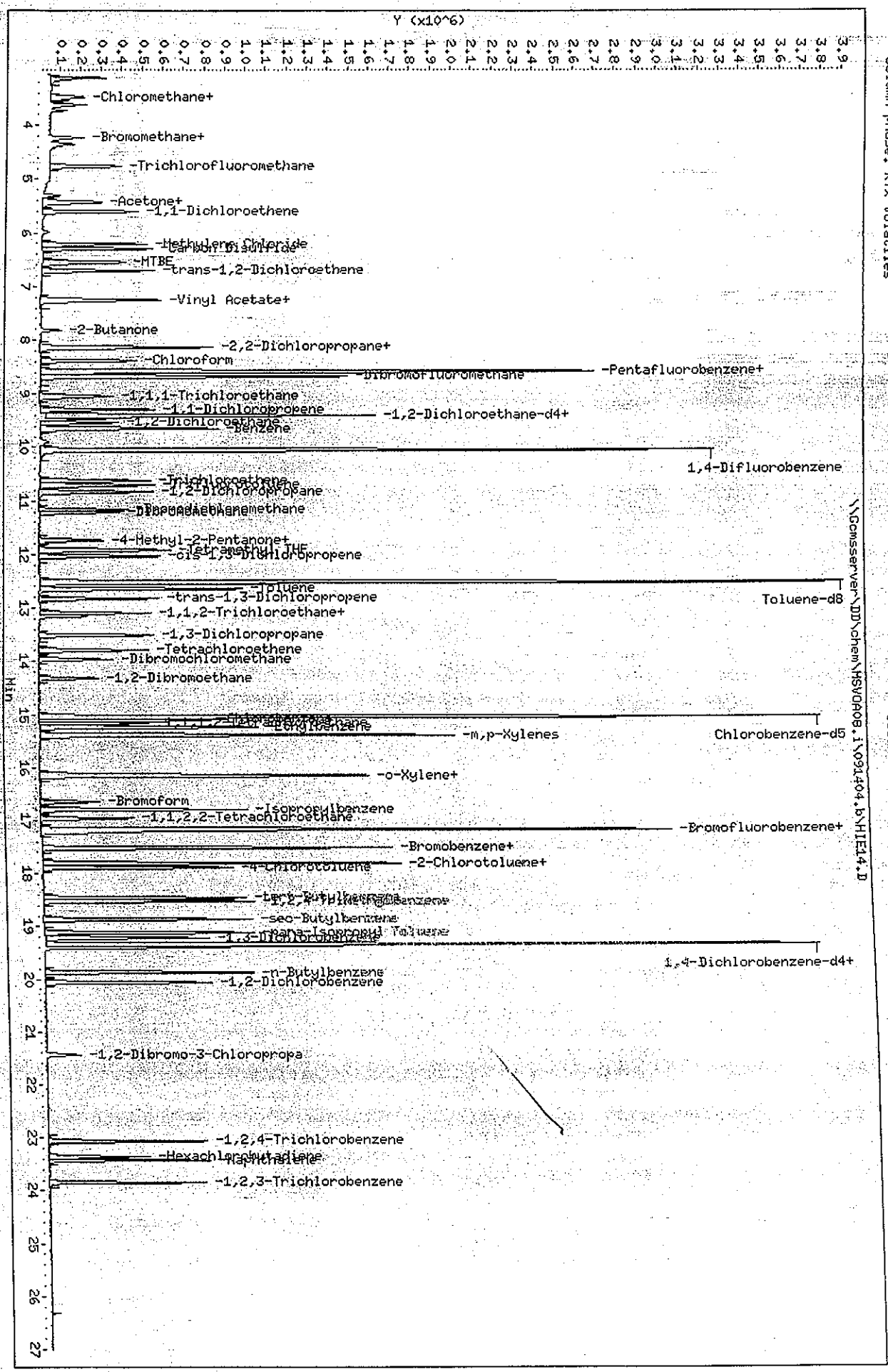
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.419	23.426	(1.211)	809831	20.0000	20.6918
78 1,2,3-Trichlorobenzene	180	23.843	23.840	(1.233)	315543	20.0000	20.1192

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Date : 14-SEP-2004 18:59
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.004/100,04US1422E,0.008/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 19:35 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.01/100,04WS1422E,0.02/100,
Misc Info : 04WS1715A,0.005/100,50 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 19:35 Cal File: HIE15.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Freon 12	85	3.121	3.115	(0.364)	990709	50.0000	48.2368
	2 Chloromethane	50	3.466	3.460	(0.404)	372524	50.0000	48.6647
	3 Vinyl Chloride	62	3.604	3.598	(0.420)	655201	50.0000	47.4781
	4 Bromomethane	94	4.225	4.219	(0.492)	453379	50.0000	54.9088
	5 Chloroethane	64	4.343	4.338	(0.506)	437608	50.0000	49.2473
	6 Trichlorofluoromethane	101	4.757	4.762	(0.554)	1186548	50.0000	49.5905
	7 Acetone	43	5.300	5.304	(0.617)	349725	50.0000	49.2399
	8 Freon 113	101	5.428	5.422	(0.632)	671175	50.0000	47.8416
	9 1,1-Dichloroethene	96	5.595	5.600	(0.652)	679163	50.0000	48.8198
	10 Methylene Chloride	84	6.207	6.211	(0.723)	876855	50.0000	48.6086
	11 Carbon Disulfide	76	6.296	6.300	(0.734)	2632995	50.0000	48.8795
	12 MTBE	73	6.542	6.546	(0.762)	1908983	50.0000	49.3739
	13 trans-1,2-Dichloroethene	96	6.700	6.704	(0.781)	762713	50.0000	48.2930
	14 Vinyl Acetate	43	7.232	7.236	(0.843)	2087913	50.0000	47.3095
	15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	1407119	50.0000	48.9208
	16 2-Butanone	43	7.814	7.808	(0.910)	460102	50.0000	47.4578
	17 2,2-Dichloropropane	77	8.129	8.134	(0.947)	983862	50.0000	48.1368
	18 cis-1,2-Dichloroethene	96	8.139	8.134	(0.948)	802384	50.0000	49.4072
	19 Chloroform	83	8.386	8.380	(0.977)	1360766	50.0000	49.3368
*	20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2345303	50.0000	
	21 Bromochloromethane	128	8.583	8.577	(1.000)	397432	50.0000	50.4922
$	22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1416320	50.0000	49.6374

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.046	9.041	(1.054)	997933	50.0000	49.7970
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	1033655	50.0000	48.7661
$	25 1,2-Dichloroethane-d4	65	9.401	9.396	(0.935)	1585412	50.0000	49.1670
	26 Carbon Tetrachloride	117	9.460	9.465	(0.941)	827115	50.0000	49.9397
	27 1,2-Dichloroethane	62	9.539	9.534	(0.949)	1070718	50.0000	50.1624
	28 Benzene	78	9.648	9.642	(0.960)	2923133	50.0000	48.4319
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	4041778	50.0000	
	30 Trichloroethene	95	10.614	10.618	(1.056)	736158	50.0000	49.1807
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	1025849	50.0000	50.0244(A)
	32 1,2-Dichloropropane	63	10.831	10.835	(1.077)	794711	50.0000	50.2547
	33 Bromodichloromethane	83	11.166	11.160	(1.111)	1039827	50.0000	49.3353
	34 Dibromomethane	93	11.215	11.210	(1.116)	595964	50.0000	49.5896
	35 2-Chloroethylvinylether	63	11.728	11.732	(1.167)	1322	50.0000	52.3445
	36 4-Methyl-2-Pentanone	43	11.728	11.732	(1.167)	927757	50.0000	47.8208
	37 Tetramethyl THF	43	11.915	11.920	(1.185)	1861948	50.0000	47.0594(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	125942	50.0000	49.3229
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3940984	50.0000	49.3048
	40 Toluene	92	12.645	12.649	(1.258)	1660133	50.0000	48.7810
	41 trans-1,3-Dichloropropene	75	12.832	12.827	(1.277)	1147068	50.0000	50.5600
	42 1,1,2-Trichloroethane	85	13.099	13.093	(1.303)	422069	50.0000	50.3894
	43 2-Hexanone	43	13.148	13.152	(0.874)	646176	50.0000	48.4804
	44 1,3-Dichloropropane	76	13.513	13.507	(0.898)	1180421	50.0000	50.1480
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	622844	50.0000	50.4050
	46 Dibromochloromethane	129	13.956	13.961	(0.928)	763461	50.0000	50.5621
	47 1,2-Dibromoethane	107	14.321	14.315	(1.425)	768417	50.0000	49.6122
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	3289931	50.0000	
	49 Chlorobenzene	112	15.110	15.104	(1.005)	1824468	50.0000	48.8798
	50 1,1,1,2-Tetrachloroethane	131	15.169	15.173	(1.009)	624737	50.0000	50.3100
	51 Ethylbenzene	91	15.238	15.232	(1.013)	3226312	50.0000	49.8417
	52 m,p-Xylenes	106	15.386	15.390	(1.023)	2302016	100.000	99.6456
	53 o-Xylene	106	16.135	16.139	(1.073)	3128408	50.0000	49.3476
	54 Styrene	104	16.155	16.159	(1.074)	1962400	50.0000	49.6756
	55 Bromoform	173	16.648	16.652	(1.107)	530545	50.0000	47.6126
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	2890645	50.0000	49.9759
	57 1,1,2,2-Tetrachloroethane	83	16.963	16.958	(0.877)	1015857	50.0000	50.0357
$	58 Bromofluorobenzene	95	17.170	17.165	(0.888)	1796554	50.0000	49.9443
	59 1,2,3-Trichloropropane	110	17.220	17.220	(0.890)	347457	50.0000	51.2473
	60 Bromobenzene	156	17.516	17.510	(0.906)	724922	50.0000	50.5736
	61 Propylbenzene	91	17.525	17.520	(0.906)	3330199	50.0000	49.9349
	62 2-Chlorotoluene	91	17.801	17.796	(0.920)	2424277	50.0000	48.9556
	63 1,3,5-Trimethylbenzene	105	17.811	17.816	(0.921)	2384323	50.0000	50.1396
	64 4-Chlorotoluene	91	17.890	17.885	(0.925)	2334726	50.0000	50.5444
	65 tert-Butylbenzene	119	18.462	18.456	(0.955)	2103732	50.0000	49.5840
	66 1,2,4-Trimethylbenzene	105	18.521	18.525	(0.958)	2419634	50.0000	49.6762
	67 sec-Butylbenzene	105	18.866	18.861	(0.976)	3246177	50.0000	49.2070
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	2570823	50.0000	50.4529
	69 1,3-Dichlorobenzene	146	19.211	19.216	(0.993)	1348490	50.0000	49.2363
*	70 1,4-Dichlorobenzene-d4	152	19.340	19.334	(1.000)	1548545	50.0000	
	71 1,4-Dichlorobenzene	146	19.399	19.393	(1.003)	1406598	50.0000	50.2618
	72 n-Butylbenzene	91	19.862	19.866	(1.027)	2579537	50.0000	50.2827
	73 1,2-Dichlorobenzene	146	20.059	20.064	(1.037)	1299497	50.0000	49.4392
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	166077	50.0000	48.1738
	75 1,2,4-Trichlorobenzene	180	23.057	23.061	(1.192)	836658	50.0000	50.3410
	76 Hexachlorobutadiene	225	23.352	23.357	(1.207)	330626	50.0000	49.7716

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

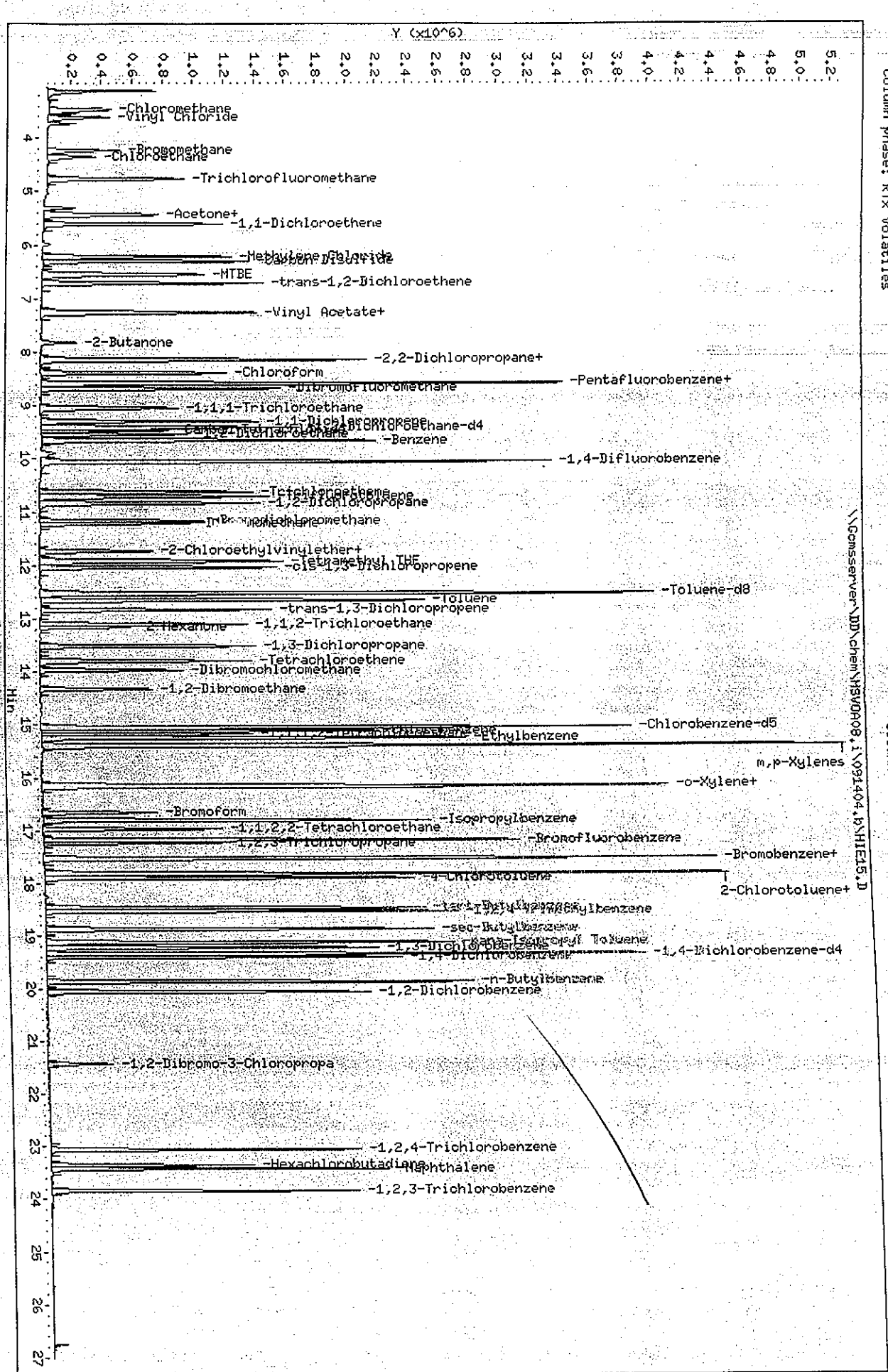
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.421	23.426	(1.211)	2223065	50.0000	53.9630
78 1,2,3-Trichlorobenzene	180	23.845	23.840	(1.233)	828872	50.0000	50.2086

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Date : 14-SEP-2004 19:35
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.01/100,04WS1422E,0.02/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 20:12 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.015/100,04WS1422E,0.03/100,
Misc Info : 04WS1715A,0.0075/100,75 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:12 Cal File: HIE16.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	RRT	RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.116	3.115		(0.362)	1552751	75.0000	74.8856
2 Chloromethane	50	3.461	3.460		(0.404)	1524054	75.0000	74.8800
3 Vinyl Chloride	62	3.599	3.598		(0.420)	1011683	75.0000	72.6063
4 Bromomethane	94	4.220	4.219		(0.492)	768323	75.0000	91.5639
5 Chloroethane	64	4.339	4.338		(0.506)	687630	75.0000	76.6506
6 Trichlorofluoromethane	101	4.763	4.762		(0.555)	1823802	75.0000	75.5013
7 Acetone	43	5.305	5.304		(0.618)	541083	75.0000	75.6953
8 Freon 113	101	5.423	5.422		(0.632)	1051961	75.0000	74.2734
9 1,1-Dichloroethene	96	5.601	5.600		(0.653)	1044453	75.0000	74.3661
10 Methylene Chloride	84	6.212	6.211		(0.724)	1304311	75.0000	71.6194
11 Carbon Disulfide	76	6.301	6.300		(0.735)	3992228	75.0000	73.4101
12 MTBE	73	6.537	6.546		(0.762)	2859431	75.0000	73.2554
13 trans-1,2-Dichloroethene	96	6.705	6.704		(0.782)	1144244	75.0000	71.7638
14 Vinyl Acetate	43	7.237	7.236		(0.844)	3144368	75.0000	70.5721
15 1,1-Dichloroethane	63	7.267	7.266		(0.847)	2099454	75.0000	72.2991
16 2-Butanone	43	7.809	7.808		(0.910)	698629	75.0000	71.3779
17 2,2-Dichloropropane	77	8.135	8.134		(0.948)	1497692	75.0000	72.5822
18 cis-1,2-Dichloroethene	96	8.135	8.134		(0.948)	1213478	75.0000	74.0123
19 Chloroform	83	8.381	8.380		(0.977)	2016692	75.0000	72.4254
* 20 Pentafluorobenzene	168	8.578	8.577		(1.000)	2367746	50.0000	
21 Bromochloromethane	128	8.578	8.577		(1.000)	589895	75.0000	74.2335
$ 22 Dibromofluoromethane	113	8.677	8.676		(1.011)	1443395	50.0000	50.1068

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.042	9.041	(1.054)	1522299	75.0000	75.2430
	24 1,1-Dichloropropene	75	9.288	9.287	(0.924)	1580340	75.0000	73.1088
$	25 1,2-Dichloroethane-d4	65	9.397	9.396	(0.935)	1622550	50.0000	49.3409
	26 Carbon Tetrachloride	117	9.456	9.465	(0.941)	1291566	75.0000	76.4669
	27 1,2-Dichloroethane	62	9.535	9.534	(0.949)	1590185	75.0000	73.0512
	28 Benzene	78	9.643	9.642	(0.960)	4424564	75.0000	71.8837
*	29 1,4-Difluorobenzene	114	10.047	10.046	(1.000)	4121884	50.0000	
	30 Trichloroethene	95	10.619	10.618	(1.057)	1111215	75.0000	72.7945
$	31 Trifluorotoluene	146	10.708	10.707	(1.066)	1563699	75.0000	74.7701(A)
	32 1,2-Dichloropropane	63	10.836	10.835	(1.079)	1175261	75.0000	72.8750
	33 Bromodichloromethane	83	11.161	11.160	(1.111)	1573269	75.0000	73.1942
	34 Dibromomethane	93	11.211	11.210	(1.116)	888485	75.0000	72.4933
	35 2-Chloroethylvinylether	63	11.733	11.732	(1.168)	2123	75.0000	82.4264(M) LW9-15-04
	36 4-Methyl-2-Pentanone	43	11.733	11.732	(1.168)	1414532	75.0000	71.4944
	37 Tetramethyl THF	43	11.921	11.920	(1.186)	2799439	75.0000	69.3788(A)
	38 cis-1,3-Dichloropropene	75	12.039	12.038	(1.198)	1910826	75.0000	73.3795
$	39 Toluene-d8	98	12.522	12.521	(1.246)	4069672	50.0000	49.9253
	40 Toluene	92	12.650	12.649	(1.259)	2543103	75.0000	73.2738
	41 trans-1,3-Dichloropropene	75	12.828	12.827	(1.277)	1720026	75.0000	74.3412
	42 1,1,2-Trichloroethane	85	13.094	13.093	(1.303)	631920	75.0000	73.9767
	43 2-Hexanone	43	13.153	13.152	(0.875)	985818	75.0000	72.6135
	44 1,3-Dichloropropane	76	13.508	13.507	(0.898)	1773804	75.0000	73.9823
	45 Tetrachloroethene	166	13.794	13.793	(0.917)	956128	75.0000	75.9655
	46 Dibromochloromethane	129	13.961	13.961	(0.929)	1159177	75.0000	75.3691
	47 1,2-Dibromoethane	107	14.316	14.315	(1.425)	1153260	75.0000	73.0122
*	48 Chlorobenzene-d5	117	15.036	15.045	(1.000)	3351054	50.0000	
	49 Chlorobenzene	112	15.105	15.104	(1.005)	2768005	75.0000	72.8057
	50 1,1,1,2-Tetrachloroethane	131	15.174	15.173	(1.009)	942430	75.0000	74.5094
	51 Ethylbenzene	91	15.233	15.232	(1.013)	4925564	75.0000	74.7047
	52 m,p-Xylenes	106	15.391	15.390	(1.024)	3426015	150.000	145.6577
	53 o-Xylene	106	16.140	16.139	(1.073)	1666501	75.0000	71.5502
	54 Styrene	104	16.160	16.159	(1.075)	2899733	75.0000	72.0641
	55 Bromoform	173	16.653	16.652	(1.108)	810410	75.0000	71.4019
	56 Isopropylbenzene	105	16.791	16.790	(1.868)	4363516	75.0000	72.6016
	57 1,1,2,2-Tetrachloroethane	83	16.959	16.958	(0.877)	1527603	75.0000	73.0239
$	58 Bromofluorobenzene	95	17.186	17.185	(0.888)	1885389	50.0000	50.2116
	59 1,2,3-Trichloropropane	110	17.225	17.224	(0.891)	367355	75.0000	73.1595
	60 Bromobenzene	156	17.511	17.510	(0.906)	1051364	75.0000	72.2707
	61 Propylbenzene	91	17.521	17.520	(0.906)	5435010	75.0000	72.2582
	62 2-Chlorotoluene	91	17.797	17.796	(0.920)	3703479	75.0000	71.5912
	63 1,3,5-Trimethylbenzene	105	17.817	17.816	(0.921)	3688763	75.0000	73.2887
	64 4-Chlorotoluene	91	17.886	17.885	(0.925)	3573003	75.0000	74.1017
	65 tert-Butylbenzene	119	18.457	18.456	(0.955)	3307833	75.0000	74.6884
	66 1,2,4-Trimethylbenzene	105	18.526	18.525	(0.958)	3733647	75.0000	73.4306
	67 sec-Butylbenzene	105	18.862	18.861	(0.976)	5011324	75.0000	72.7721
	68 para-Isopropyl Toluene	119	19.108	19.117	(0.988)	3924839	75.0000	73.7893
	69 1,3-Dichlorobenzene	146	19.217	19.216	(0.994)	2051112	75.0000	71.7440
*	70 1,4-Dichlorobenzene-d4	152	19.335	19.334	(1.000)	1616464	50.0000	
	71 1,4-Dichlorobenzene	146	19.394	19.393	(1.003)	2142852	75.0000	73.3530
	72 n-Butylbenzene	91	19.867	19.866	(1.028)	3954181	75.0000	73.8400
	73 1,2-Dichlorobenzene	146	20.064	20.064	(1.038)	1998476	75.0000	72.8371
	74 1,2-Dibromo-3-Chloropropane	75	21.435	21.434	(1.109)	255706	75.0000	71.0560
	75 1,2,4-Trichlorobenzene	180	23.062	23.061	(1.193)	1279488	75.0000	73.7510
	76 Hexachlorobutadiene	225	23.357	23.357	(1.208)	527219	75.0000	76.0315

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

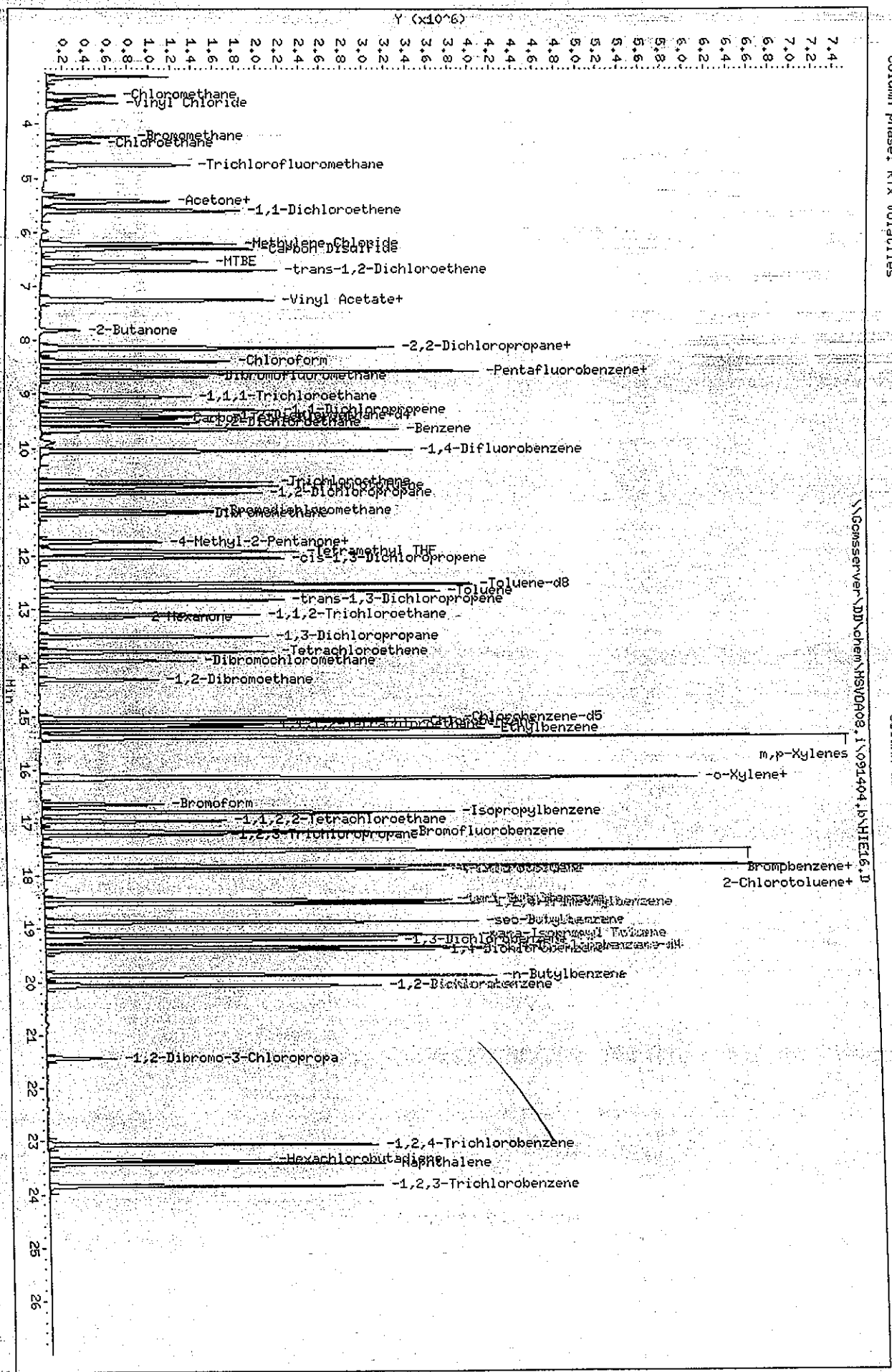
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.427	23.426	(1.212)	3336138	75.0000	77.5792
78 1,2,3-Trichlorobenzene	180	23.841	23.840	(1.233)	1280863	75.0000	74.3279

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Date : 14-SEP-2004 20:12
Client ID: DYNA P&T
Sample Info: ICAL,0455331,0.015/100,04MS1422E,0.03/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 20:48 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.02/100,04WS1422E,0.04/100,
Misc Info : 04WS1715A,0.01/100,100 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.115	3.115	(0.363)	2114694	100.000	99.4254
2 Chloromethane	50	3.460	3.460	(0.403)	2018208	100.000	96.9229
3 Vinyl Chloride	62	3.598	3.598	(0.420)	1352161	100.000	94.6060
4 Bromomethane	94	4.219	4.219	(0.492)	1031718	100.000	125.6749
5 Chloroethane	64	4.338	4.338	(0.506)	905246	100.000	98.3743
6 Trichlorofluoromethane	101	4.762	4.762	(0.555)	2508285	100.000	101.2297
7 Acetone	43	5.304	5.304	(0.618)	806653	100.000	82.7780
8 Freon 113	101	5.422	5.422	(0.632)	1443210	100.000	99.3384
9 1,1-Dichloroethene	96	5.600	5.600	(0.653)	1427128	100.000	99.0611
10 Methylene Chloride	84	6.211	6.211	(0.724)	1802859	100.000	96.5084
11 Carbon Disulfide	76	6.300	6.300	(0.734)	5564511	100.000	99.7519
12 MTBE	73	6.546	6.546	(0.763)	4014807	100.000	100.2717
13 trans-1,2-Dichloroethene	96	6.704	6.704	(0.782)	1611304	100.000	98.5186
14 Vinyl Acetate	43	7.236	7.236	(0.844)	4310445	100.000	94.3139
15 1,1-Dichloroethane	63	7.266	7.266	(0.847)	2870916	100.000	96.3832
16 2-Butanone	43	7.808	7.808	(0.910)	885769	100.000	88.2250
17 2,2-Dichloropropane	77	8.134	8.134	(0.948)	2066267	100.000	97.6220
18 cis-1,2-Dichloroethene	96	8.134	8.134	(0.948)	1655866	100.000	98.4581
19 Chloroform	83	8.380	8.380	(0.977)	2829980	100.000	99.0806
* 20 Pentafluorobenzene	168	8.577	8.577	(1.000)	2428741	50.0000	
21 Bromochloromethane	128	8.577	8.577	(1.000)	821609	100.000	100.7962
$ 22 Dibromofluoromethane	113	8.676	8.676	(1.011)	1489781	50.0000	50.4182

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.041	9.041	(1.054)	2121573	100.000	102.2299
	24 1,1-Dichloropropene	75	9.287	9.287	(0.924)	2205880	100.000	98.8491
$	25 1,2-Dichloroethane-d4	65	9.396	9.396	(0.935)	1719220	50.0000	50.6421
	26 Carbon Tetrachloride	117	9.465	9.465	(0.942)	1789444	100.000	102.6236
	27 1,2-Dichloroethane	62	9.534	9.534	(0.949)	2239491	100.000	99.6555
	28 Benzene	78	9.642	9.642	(0.960)	6087936	100.000	95.8080
*	29 1,4-Difluorobenzene	114	10.046	10.046	(1.000)	4255238	50.0000	
	30 Trichloroethene	95	10.618	10.618	(1.057)	1543779	100.000	97.9621
$	31 Trifluorotoluene	146	10.707	10.707	(1.066)	2196068	100.000	101.7168(A)
	32 1,2-Dichloropropane	63	10.835	10.835	(1.079)	1626999	100.000	97.7245
	33 Bromodichloromethane	83	11.160	11.160	(1.111)	2187263	100.000	98.5704
	34 Dibromomethane	93	11.210	11.210	(1.116)	1247510	100.000	98.5970
	35 2-Chloroethylvinylether	63	11.732	11.732	(1.168)	2408	100.000	90.5617
	36 4-Methyl-2-Pentanone	43	11.732	11.732	(1.168)	1940712	100.000	95.0151
	37 Tetramethyl THF	43	11.920	11.920	(1.186)	3869552	100.000	92.8941(A)
	38 cis-1,3-Dichloropropene	75	12.038	12.038	(1.198)	263040	100.000	97.8473
$	39 Toluene-d8	98	12.521	12.521	(1.246)	4202158	50.0000	49.9351
	40 Toluene	92	12.649	12.649	(1.259)	3488995	100.000	97.3772
	41 trans-1,3-Dichloropropene	75	12.827	12.827	(1.277)	2377788	100.000	99.5497
	42 1,1,2-Trichloroethane	85	13.093	13.093	(1.303)	879163	100.000	99.6951
	43 2-Hexanone	43	13.152	13.152	(0.874)	1343624	100.000	93.7038
	44 1,3-Dichloropropane	76	13.507	13.507	(0.898)	2420637	100.000	95.5896
	45 Tetrachloroethene	166	13.793	13.793	(0.917)	1321845	100.000	99.4350
	46 Dibromochloromethane	129	13.961	13.961	(0.928)	1627485	100.000	100.1888
	47 1,2-Dibromoethane	107	14.315	14.315	(1.425)	1606669	100.000	98.5295
*	48 Chlorobenzene-d5	117	15.045	15.045	(1.000)	3539344	50.0000	
	49 Chlorobenzene	112	15.104	15.104	(1.004)	3884902	100.000	96.7470
	50 1,1,1,2-Tetrachloroethane	131	15.173	15.173	(1.009)	1344848	100.000	100.6686
	51 Ethylbenzene	91	15.232	15.232	(1.012)	6827727	100.000	98.0453
	52 m,p-Xylenes	106	15.390	15.390	(1.023)	4698520	200.000	189.1315
	53 o-Xylene	106	16.139	16.139	(1.073)	2314609	100.000	94.0896
	54 Styrene	104	16.159	16.159	(1.074)	4032525	100.000	94.8848
	55 Bromoform	173	16.652	16.652	(1.107)	1149803	100.000	95.9152
	56 Isopropylbenzene	105	16.790	16.798	(0.868)	6181294	100.000	97.9474
	57 1,1,2,2-Tetrachloroethane	83	16.958	16.958	(0.877)	2163675	100.000	97.6759
$	58 Bromofluorobenzene	95	17.165	17.165	(0.888)	1939411	50.0000	49.4155
	59 1,2,3-Trichloropropane	110	17.224	17.224	(0.891)	526712	100.000	100.6021
	60 Bromobenzene	156	17.510	17.510	(0.906)	1517411	100.000	97.0249
	61 Propylbenzene	91	17.520	17.520	(0.906)	7827467	100.000	96.0139
	62 2-Chlorotoluene	91	17.796	17.796	(0.920)	5131264	100.000	94.9712
	63 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.921)	5033892	100.000	97.0010
	64 4-Chlorotoluene	91	17.885	17.885	(0.925)	4898256	100.000	97.1910
	65 tert-Butylbenzene	119	18.456	18.456	(0.955)	4574224	100.000	98.8136
	66 1,2,4-Trimethylbenzene	105	18.525	18.525	(0.958)	5143406	100.000	96.7745
	67 sec-Butylbenzene	105	18.861	18.861	(0.976)	6991071	100.000	97.1283
	68 para-Isopropyl Toluene	119	19.117	19.117	(0.989)	5489584	100.000	98.7417
	69 1,3-Dichlorobenzene	146	19.216	19.216	(0.994)	2920820	100.000	97.7441
*	70 1,4-Dichlorobenzene-d4	152	19.334	19.334	(1.000)	1689571	50.0000	
	71 1,4-Dichlorobenzene	146	19.393	19.393	(1.003)	2964661	100.000	97.0936
	72 n-Butylbenzene	91	19.866	19.866	(1.028)	5497890	100.000	98.2247
	73 1,2-Dichlorobenzene	146	20.064	20.064	(1.038)	2807709	100.000	97.9029
	74 1,2-Dibromo-3-Chloropropane	75	21.434	21.434	(1.109)	359880	100.000	95.6769
	75 1,2,4-Trichlorobenzene	180	23.061	23.061	(1.193)	1817244	100.000	100.2154
	76 Hexachlorobutadiene	225	23.357	23.357	(1.208)	752001	100.000	103.7553

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

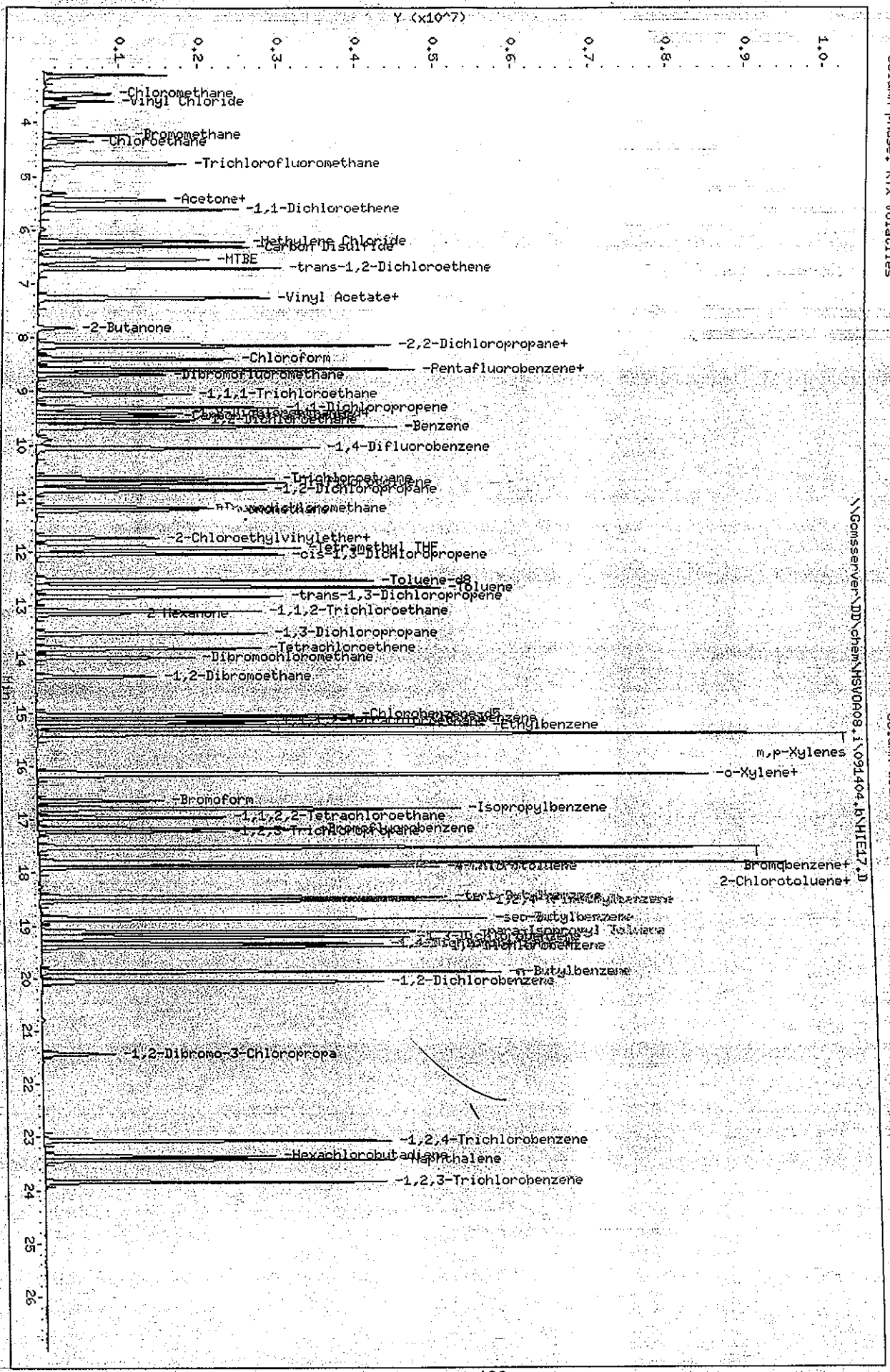
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.426	23.426	(1.222)	4874113	100.000	108.4393
78 1,2,3-Trichlorobenzene	180	23.840	23.840	(1.233)	2793929	100.000	99.5965

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gomsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Date : 14-SEP-2004 20:48
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.02/100,04WS1422E,0.04/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175018 Filename : hie18 Injected : 14-SEP-2004 21:24
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1541 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	36.81200	ug/L	-26	30	!v-
Chloromethane	50.00000	37.78070	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	40.70280	ug/L	-19	20	
Bromomethane	50.00000	53.40110	ug/L	7	30	
Chloroethane	50.00000	44.96540	ug/L	-10	30	
Trichlorofluoromethane	50.00000	48.26010	ug/L	-3	30	
Dibromofluoromethane	50.00000	48.91830	ug/L	-2	30	
1,2-Dichloroethane-d4	50.00000	48.85870	ug/L	-2	30	
Toluene-d8	50.00000	52.32620	ug/L	5	30	
Bromofluorobenzene	50.00000	49.76170	ug/L	0	30	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2538256	8.23	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4346886	7.55	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3487400	6.00	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1640381	5.93	19.34	19.34	0.00

LW 9/15/04

09/15/04

!=warning -=low bias v=ICV
Page 1 of 1

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE18.D
Report Date: 15-Sep-2004 09:34

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE18.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 21:24 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICV,04WS1541,0.02/100,
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	1 Freon 12	85	3.122	3.115	(0.364)	658263	36.8120	36.8120
	2 Chloromethane	50	3.467	3.460	(0.404)	822174	37.7807	37.7807
	3 Vinyl Chloride	62	3.605	3.598	(0.421)	607988	40.7028	40.7028
	4 Bromomethane	94	4.227	4.219	(0.493)	480363	53.4011	53.4010
	5 Chloroethane	64	4.345	4.338	(0.507)	432432	44.9654	44.9654
	6 Trichlorofluoromethane	101	4.759	4.762	(0.555)	1249716	48.2601	48.2601
	7 Acetone	43	5.301	5.304	(0.618)	17376	1.83923	1.8392
	8 Freon 113	101	5.429	5.422	(0.633)	4990	0.32865	0.3286(a)
	9 1,1-Dichloroethene	96	5.597	5.600	(0.653)	2749	0.18258	0.1825(a)
	10 Methylene Chloride	84	6.208	6.211	(0.724)	10933	0.56000	0.5600
	11 Carbon Disulfide	76	6.297	6.300	(0.734)	13105	0.22479	0.2247(a)
	12 MTBE	73	6.553	6.546	(0.764)	5957	0.14236	0.1423(a)
	13 trans-1,2-Dichloroethene	96	6.701	6.704	(0.782)	3185	0.18634	0.1863(a)
	14 Vinyl Acetate	43	7.234	7.236	(0.844)	10297	0.21558	0.2155(a)
	15 1,1-Dichloroethane	63	7.273	7.266	(0.848)	4261	0.13688	0.1368(a)
	16 2-Butanone	43	7.825	7.808	(0.913)	10106	0.96316	0.9631
	17 2,2-Dichloropropane	77	8.131	8.134	(0.948)	2631	0.11894	0.1189(a)
	18 cis-1,2-Dichloroethene	96	8.131	8.134	(0.948)	3234	0.18400	0.1839(a)
	19 Chloroform	83	8.377	8.380	(0.977)	4441	0.14878	0.1487(a)
*	20 Pentafluorobenzene	168	8.575	8.577	(1.000)	2538256	50.0000	
	21 Bromochloromethane	128	8.584	8.577	(1.001)	1144	0.13429	0.1342(a)
$	22 Dibromofluoromethane	113	8.673	8.676	(1.011)	1510635	48.9183	48.9182

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE18.D
Report Date: 15-Sep-2004 09:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	23 1,1,1-Trichloroethane	97	9.038	9.041	(1.054)	2661	0.12269	0.1226(a)
	24 1,1-Dichloropropene	75	9.284	9.287	(0.924)	5277	0.23149	0.2314(a)
$	25 1,2-Dichloroethane-d4	65	9.403	9.396	(0.935)	1694399	48.8587	48.8587
	26 Carbon Tetrachloride	117	9.462	9.465	(0.941)	1885	0.10582	0.1058(a)
	27 1,2-Dichloroethane	62	9.541	9.534	(0.949)	3474	0.15133	0.1513(a)
	28 Benzene	78	9.639	9.642	(0.959)	12294	0.18940	0.1893(a)
*	29 1,4-Difluorobenzene	114	10.053	10.046	(1.000)	4346886	50.0000	
	30 Trichloroethene	95	10.615	10.618	(1.056)	3938	0.24462	0.2446(a)
$	31 Trifluorotoluene	146	10.694	10.707	(1.064)	7704	0.34931	0.3493(aA)
	32 1,2-Dichloropropane	63	10.842	10.835	(1.078)	2433	0.14306	0.1430(a)
	33 Bromodichloromethane	83	11.168	11.160	(1.111)	3257	0.14368	0.1436(a)
	34 Dibromomethane	93	11.217	11.210	(1.116)	1823	0.14104	0.1410(a)
	36 4-Methyl-2-Pentanone	43	11.749	11.732	(1.169)	11226	0.53802	0.5380
	37 Tetramethyl THF	43	11.927	11.920	(1.186)	11011	0.25876	0.2587(aA)
	38 cis-1,3-Dichloropropene	75	12.035	12.038	(1.197)	4622	0.16831	0.1683(a)
$	39 Toluene-d8	98	12.518	12.521	(1.245)	4498209	52.3262	52.3261
	40 Toluene	92	12.647	12.649	(1.258)	6665	0.18210	0.1820(a)
	41 trans-1,3-Dichloropropene	75	12.824	12.827	(1.276)	4693	0.19234	0.1923(a)
	42 1,1,2-Trichloroethane	85	13.100	13.093	(1.303)	1319	0.14642	0.1464(a)
	43 2-Hexanone	43	13.159	13.152	(0.875)	10490	0.74247	0.7424
	44 1,3-Dichloropropane	76	13.504	13.507	(0.898)	4541	0.18199	0.1819(a)
	45 Tetrachloroethene	166	13.790	13.793	(0.917)	4432	0.33836	0.3383(a)
	46 Dibromochloromethane	129	13.958	13.961	(0.928)	2049	0.12802	0.1280(a)
	47 1,2-Dibromoethane	107	14.313	14.315	(1.424)	2686	0.16125	0.1612(a)
*	48 Chlorobenzene-d5	117	15.042	15.045	(1.000)	3487400	50.0000	
	49 Chlorobenzene	112	15.111	15.104	(1.005)	8581	0.21688	0.2168(a)
	50 1,1,1,2-Tetrachloroethane	131	15.171	15.173	(1.009)	1743	0.13242	0.1324(a)
	51 Ethylbenzene	91	15.240	15.232	(1.013)	15344	0.22362	0.2236(a)
	52 m,p-Xylenes	106	15.387	15.390	(1.023)	12196	0.49824	0.4982(a)
	53 o-Xylene	106	16.147	16.139	(1.073)	5214	0.21511	0.2151(a)
	54 Styrene	104	16.166	16.159	(1.075)	10711	0.25578	0.2557(a)
	55 Bromoform	173	16.548	16.652	(1.106)	3765	0.31875	0.3187(a)
	56 Isopropylbenzene	105	16.787	16.790	(0.869)	10981	0.24287	0.2428(a)
	57 1,1,2,2-Tetrachloroethane	83	16.955	16.958	(0.877)	4473	0.20798	0.2079(a)
$	58 Bromofluorobenzene	95	17.162	17.165	(0.887)	1496140	49.7617	49.7617
	60 Bromobenzene	156	17.527	17.530	(0.906)	3532	0.23268	0.2326(a)
	61 Propylbenzene	91	17.527	17.526	(0.906)	25061	0.32547	0.3254(a)
	62 2-Chlorotoluene	91	17.603	17.796	(0.920)	14243	0.27352	0.2735(a)
	63 1,3,5-Trimethylbenzene	105	17.813	17.806	(0.921)	13653	0.27455	0.2745(a)
	64 4-Chlorotoluene	91	17.892	17.885	(0.925)	18712	0.34359	0.3435(a)
	65 tert-Butylbenzene	119	18.464	18.456	(0.955)	22245	0.25020	0.2502(a)
	66 1,2,4-Trimethylbenzene	105	18.523	18.525	(0.958)	15522	0.30081	0.3008(a)
	67 sec-Butylbenzene	105	18.868	18.861	(0.976)	22489	0.32181	0.3218(a)
	68 para-Isopropyl Toluene	119	19.114	19.117	(0.988)	20626	0.38213	0.3821(a)
	69 1,3-Dichlorobenzene	146	19.213	19.216	(0.993)	12084	0.41651	0.4165(a)
*	70 1,4-Dichlorobenzene-d4	152	19.341	19.334	(1.000)	1640381	50.0000	
	71 1,4-Dichlorobenzene	146	19.400	19.393	(1.003)	12181	0.41089	0.4108(a)
	72 n-Butylbenzene	91	19.864	19.866	(1.027)	28939	0.53253	0.5325
	73 1,2-Dichlorobenzene	146	20.061	20.064	(1.037)	9109	0.32715	0.3271(a)
	74 1,2-Dibromo-3-Chloropropane	75	21.431	21.434	(1.108)	1558	0.42663	0.4266(a)
	75 1,2,4-Trichlorobenzene	180	23.058	23.061	(1.192)	17778	1.00980	1.0098
	76 Hexachlorobutadiene	225	23.354	23.357	(1.207)	7634	1.08487	1.0848
	77 Naphthalene	128	23.423	23.426	(1.211)	59240	1.35749	1.3574
	78 1,2,3-Trichlorobenzene	180	23.847	23.840	(1.233)	18741	1.07168	1.0716

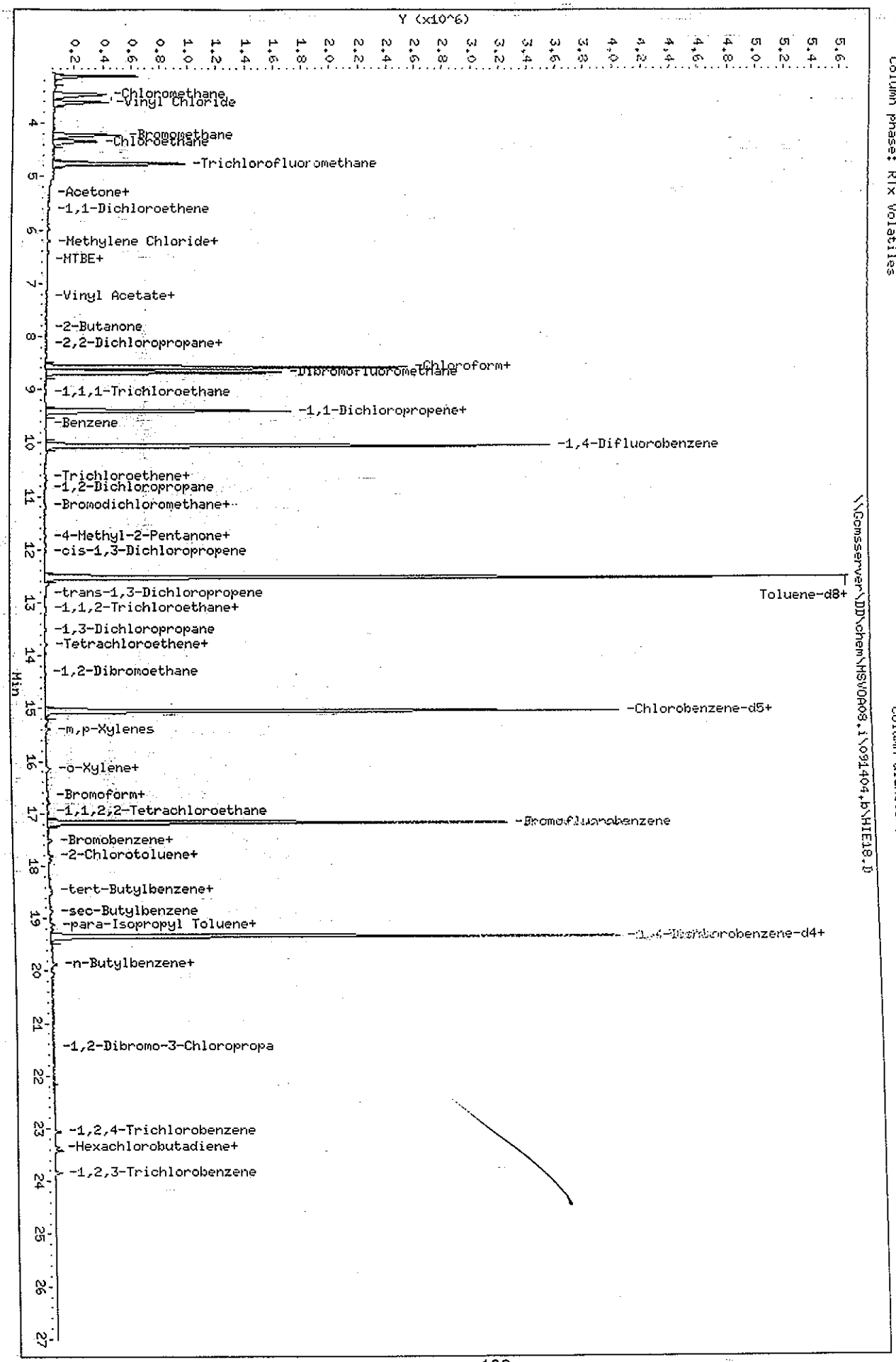
Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE18.D
Report Date: 15-Sep-2004 09:34

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\HSVOA08.i\091404.b\HIE18.D
Date : 14-SEP-2004 21:24
Client ID: DYNA P&T
Sample Info: ICV,04WS1541,0.02/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA08.i
Operator: LM
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175019 Filename : hie19 Injected : 14-SEP-2004 22:01
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	60.25130	ug/L	21	40	
Freon 113	50.00000	52.16000	ug/L	4	30	
1,1-Dichloroethene	50.00000	45.62080	ug/L	-9	20	
Methylene Chloride	50.00000	48.00290	ug/L	-4	30	
Carbon Disulfide	50.00000	42.50020	ug/L	-15	30	
MTBE	50.00000	54.70120	ug/L	9	30	
trans-1,2-Dichloroethene	50.00000	47.35270	ug/L	-5	30	
Vinyl Acetate	50.00000	41.53400	ug/L	-17	40	
1,1-Dichloroethane	50.00000	49.14810	ug/L	-2	30	
2-Butanone	50.00000	51.21330	ug/L	2	40	
2,2-Dichloropropane	50.00000	45.84170	ug/L	-8	30	
cis-1,2-Dichloroethene	50.00000	50.17280	ug/L	0	30	
Chloroform	50.00000	48.81910	ug/L	-2	20	
Bromochloromethane	50.00000	50.09810	ug/L	0	30	
1,1,1-Trichloroethane	50.00000	50.71680	ug/L	1	30	
1,1-Dichloropropene	50.00000	46.59160	ug/L	-7	30	
Carbon Tetrachloride	50.00000	50.00650	ug/L	0	30	
1,2-Dichloroethane	50.00000	49.23660	ug/L	-2	30	
Benzene	50.00000	48.14280	ug/L	-4	30	
Trichloroethene	50.00000	49.05030	ug/L	-2	30	
1,2-Dichloropropane	50.00000	48.72520	ug/L	-3	20	
Bromodichloromethane	50.00000	50.93940	ug/L	2	30	
Dibromomethane	50.00000	49.29190	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	53.36300	ug/L	7	40	m
4-Methyl-2-Pentanone	50.00000	47.61960	ug/L	-5	40	
Tetramethyl THF	50.00000	46.25830	ug/L	-7	30	
cis-1,3-Dichloropropene	50.00000	49.05400	ug/L	-2	30	
Toluene	50.00000	49.17120	ug/L	-2	20	
trans-1,3-Dichloropropene	50.00000	46.64990	ug/L	-7	30	
1,1,2-Trichloroethane	50.00000	50.46680	ug/L	1	30	
2-Hexanone	50.00000	50.88010	ug/L	2	40	
1,3-Dichloropropane	50.00000	50.01910	ug/L	0	30	
Tetrachloroethene	50.00000	49.41550	ug/L	-1	30	
Dibromochloromethane	50.00000	51.08630	ug/L	2	30	
1,2-Dibromoethane	50.00000	50.20010	ug/L	0	30	
Chlorobenzene	50.00000	48.66860	ug/L	-3	30	
1,1,1,2-Tetrachloroethane	50.00000	51.13880	ug/L	2	30	
Ethylbenzene	50.00000	50.20740	ug/L	0	20	
m,p-Xylenes	100.0000	98.19230	ug/L	-2	30	
o-Xylene	50.00000	48.63240	ug/L	-3	30	
Styrene	50.00000	50.03350	ug/L	0	30	
Bromoform	50.00000	49.23880	ug/L	-2	30	
Isopropylbenzene	50.00000	45.05810	ug/L	-10	30	
1,1,2,2-Tetrachloroethane	50.00000	50.61820	ug/L	1	30	
1,2,3-Trichloropropane	50.00000	52.73700	ug/L	5	30	
Propylbenzene	50.00000	49.02090	ug/L	-2	30	
Bromobenzene	50.00000	50.86910	ug/L	2	30	

m=manual integration
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name :
Seqnum : 474372175019 Filename : hie19 Injected : 14-SEP-2004 22:01
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	49.75170	ug/L	0	30	
2-Chlorotoluene	50.00000	49.20140	ug/L	-2	30	
4-Chlorotoluene	50.00000	48.50520	ug/L	-3	30	
tert-Butylbenzene	50.00000	50.02040	ug/L	0	30	
1,2,4-Trimethylbenzene	50.00000	50.44110	ug/L	1	30	
sec-Butylbenzene	50.00000	48.61160	ug/L	-3	30	
para-Isopropyl Toluene	50.00000	47.97740	ug/L	-4	30	
1,3-Dichlorobenzene	50.00000	48.47920	ug/L	-3	30	
1,4-Dichlorobenzene	50.00000	49.74920	ug/L	-1	30	
n-Butylbenzene	50.00000	50.67410	ug/L	1	30	
1,2-Dichlorobenzene	50.00000	50.30820	ug/L	1	30	
1,2-Dibromo-3-Chloropropane	50.00000	51.82510	ug/L	4	30	
1,2,4-Trichlorobenzene	50.00000	51.15440	ug/L	2	30	
Hexachlorobutadiene	50.00000	51.71210	ug/L	3	30	
Naphthalene	50.00000	59.42570	ug/L	19	30	
1,2,3-Trichlorobenzene	50.00000	52.06140	ug/L	4	30	
Dibromofluoromethane	50.00000	49.85050	ug/L	0	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	49.56910	ug/L	-1	30	(NOT USED)
Toluene-d8	50.00000	48.85450	ug/L	-2	30	(NOT USED)
Bromofluorobenzene	50.00000	49.60330	ug/L	-1	30	(NOT USED)

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2465873	5.14	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4309516	6.62	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3490304	6.09	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1667147	7.66	19.34	19.34	0.00

LW 9-15-04

9/15/04

m=manual integration
Page 2 of 2

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE19.D
Report Date: 15-Sep-2004 09:36

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 22:01 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICV,04WS1554,0.02/100,
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.118	3.115	(0.363)	3824	0.17708	0.1770(a)
2 Chloromethane	50	3.423	3.460	(0.399)	22875	1.08201	1.0820
3 Vinyl Chloride	62	3.601	3.598	(0.420)	1463	0.10082	0.1008(a)
4 Bromomethane	94	4.212	4.219	(0.491)	265339	30.3631	30.3631
6 Trichlorofluoromethane	101	4.764	4.762	(0.555)	5996	0.23834	0.2383(a)
7 Acetone	43	5.297	5.304	(0.617)	449202	60.2513	60.2513
8 Freon 113	101	5.425	5.422	(0.632)	769377	52.1600	52.1599
9 1,1-Dichloroethene	96	5.607	5.614	(0.653)	667286	45.6208	45.6207
10 Methylene Chloride	84	6.204	6.211	(0.723)	910444	48.0029	48.0028
11 Carbon Disulfide	76	6.292	6.300	(0.733)	2497055	42.5002	42.5002
12 MTBE	73	6.539	6.546	(0.762)	2221580	54.7012	54.7011
13 trans-1,2-Dichloroethene	96	6.706	6.704	(0.782)	788310	47.3527	47.3527
14 Vinyl Acetate	43	7.239	7.236	(0.844)	1927257	41.5340	41.5340
15 1,1-Dichloroethane	63	7.259	7.266	(0.846)	1486330	49.1481	49.1480
16 2-Butanone	43	7.811	7.808	(0.910)	522037	51.2133	51.2133
17 2,2-Dichloropropane	77	8.136	8.134	(0.948)	985118	45.8417	45.8416
18 cis-1,2-Dichloroethene	96	8.136	8.134	(0.948)	856706	50.1728	50.1728
19 Chloroform	83	8.383	8.380	(0.977)	1415708	48.8191	48.8190
* 20 Pentafluorobenzene	168	8.580	8.577	(1.000)	2465873	50.0000	
21 Bromochloromethane	128	8.580	8.577	(1.000)	414602	50.0981	50.0980
$ 22 Dibromofluoromethane	113	8.668	8.676	(1.010)	1495525	49.8505	49.8505
23 1,1,1-Trichloroethane	97	9.043	9.041	(1.054)	1068614	50.7168	50.7167

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE19.D
Report Date: 15-Sep-2004 09:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	24 1,1-Dichloropropene	75	9.290	9.287	(0.924)	1052983	46.5916	46.5916
$	25 1,2-Dichloroethane-d4	65	9.398	9.396	(0.935)	1704254	49.5691	49.5690
	26 Carbon Tetrachloride	117	9.457	9.465	(0.941)	883083	50.0065	50.0064
	27 1,2-Dichloroethane	62	9.536	9.534	(0.949)	1120573	49.2366	49.2365
	28 Benzene	78	9.645	9.642	(0.960)	3098159	48.1428	48.1427
*	29 1,4-Difluorobenzene	114	10.049	10.046	(1.000)	4309516	50.0000	
	30 Trichloroethene	95	10.621	10.618	(1.057)	782840	49.0503	49.0502
$	31 Trifluorotoluene	146	10.700	10.707	(1.065)	7280	0.33295	0.3329(aA)
	32 1,2-Dichloropropane	63	10.828	10.835	(1.078)	821565	48.7252	48.7251
	33 Bromodichloromethane	83	11.163	11.160	(1.111)	1144756	50.9394	50.9394
	34 Dibromomethane	93	11.212	11.210	(1.116)	631626	49.2919	49.2918
	35 2-Chloroethylvinylether	63	11.754	11.732	(1.170)	1437	53.3630	53.3630(M)
	36 4-Methyl-2-Pentanone	43	11.735	11.732	(1.168)	985051	47.6196	47.6195
	37 Tetramethyl THF	43	11.922	11.920	(1.186)	1951491	46.2583	46.2583(A)
	38 cis-1,3-Dichloropropene	75	12.040	12.038	(1.198)	1335528	49.0540	49.0539
$	39 Toluene-d8	98	12.514	12.521	(1.245)	4163662	48.8545	48.8545
	40 Toluene	92	12.642	12.649	(1.258)	1784260	49.1712	49.1711
	41 trans-1,3-Dichloropropene	75	12.829	12.827	(1.277)	1128466	46.6499	46.6499
	42 1,1,2-Trichloroethane	85	13.095	13.093	(1.303)	450719	50.4668	50.4668
	43 2-Hexanone	43	13.155	13.152	(0.875)	719463	50.8801	50.8800
	44 1,3-Dichloropropane	76	13.509	13.507	(0.898)	1249094	50.0191	50.0190
	45 Tetrachloroethene	166	13.786	13.793	(0.917)	647806	49.4155	49.4155
	46 Dibromochloromethane	129	13.963	13.961	(0.929)	818356	51.0863	51.0862
	47 1,2-Dibromoethane	107	14.318	14.315	(1.425)	829027	50.2001	50.2000
*	48 Chlorobenzene-d5	117	15.038	15.045	(1.000)	3490304	50.0000	
	49 Chlorobenzene	112	15.107	15.104	(1.005)	1927224	48.6686	48.6686
	50 1,1,1,2-Tetrachloroethane	131	15.176	15.173	(1.009)	673705	51.1388	51.1387
	51 Ethylbenzene	91	15.235	15.232	(1.013)	3447923	50.2074	50.2074
	52 m,p-Xylenes	106	15.383	15.390	(1.023)	2405554	98.1923	98.1923
	53 o-Xylene	106	16.132	16.139	(1.073)	1179782	48.6324	48.6323
	54 Styrene	104	16.162	16.159	(1.075)	2056918	50.0335	50.0335
	55 Bromoform	173	16.655	16.632	(1.108)	582081	49.2388	49.2387
	56 Isopropylbenzene	105	16.793	16.790	(0.868)	2805802	45.0581	45.0581
	57 1,1,2,2-Tetrachloroethane	83	16.860	16.958	(0.873)	1106391	50.6182	50.6181
$	58 Bromofluorobenzene	95	17.167	17.165	(0.888)	1920945	49.6033	49.6033
	59 1,2,3-Trichloropropane	110	17.226	17.224	(0.891)	234055	52.7370	52.7369
	60 Bromobenzene	156	17.512	17.510	(0.906)	985003	50.8691	50.8691
	61 Propylbenzene	91	17.522	17.520	(0.906)	3943361	49.0209	49.0208
	62 2-Chlorotoluene	91	17.798	17.796	(0.920)	2823050	49.2014	49.2013
	63 1,3,5-Trimethylbenzene	105	17.818	17.816	(0.921)	2547511	49.7517	49.7517
	64 4-Chlorotoluene	91	17.887	17.885	(0.925)	2412132	48.5052	48.5052
	65 tert-Butylbenzene	119	18.459	18.456	(0.955)	2284784	50.0204	50.0203
	66 1,2,4-Trimethylbenzene	105	18.518	18.525	(0.958)	2645279	50.4411	50.4410
	67 sec-Butylbenzene	105	18.863	18.861	(0.976)	3452511	48.6116	48.6115
	68 para-Isopropyl Toluene	119	19.110	19.117	(0.988)	2631919	47.9774	47.9773
	69 1,3-Dichlorobenzene	146	19.218	19.216	(0.994)	1429443	48.4792	48.4791
*	70 1,4-Dichlorobenzene-d4	152	19.336	19.334	(1.000)	1667147	50.0000	
	71 1,4-Dichlorobenzene	146	19.396	19.393	(1.003)	1498883	49.7492	49.7491
	72 n-Butylbenzene	91	19.869	19.866	(1.028)	2798713	50.6741	50.6740
	73 1,2-Dichlorobenzene	146	20.056	20.064	(1.037)	1423614	50.3082	50.3081
	74 1,2-Dibromo-3-Chloropropane	75	21.436	21.434	(1.109)	192348	51.8251	51.8250
	75 1,2,4-Trichlorobenzene	180	23.063	23.061	(1.193)	915290	51.1544	51.1543
	76 Hexachlorobutadiene	225	23.359	23.357	(1.208)	369826	51.7121	51.7121
	77 Naphthalene	128	23.418	23.426	(1.211)	2635603	59.4257	59.4256

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE19.D
Report Date: 15-Sep-2004 09:36

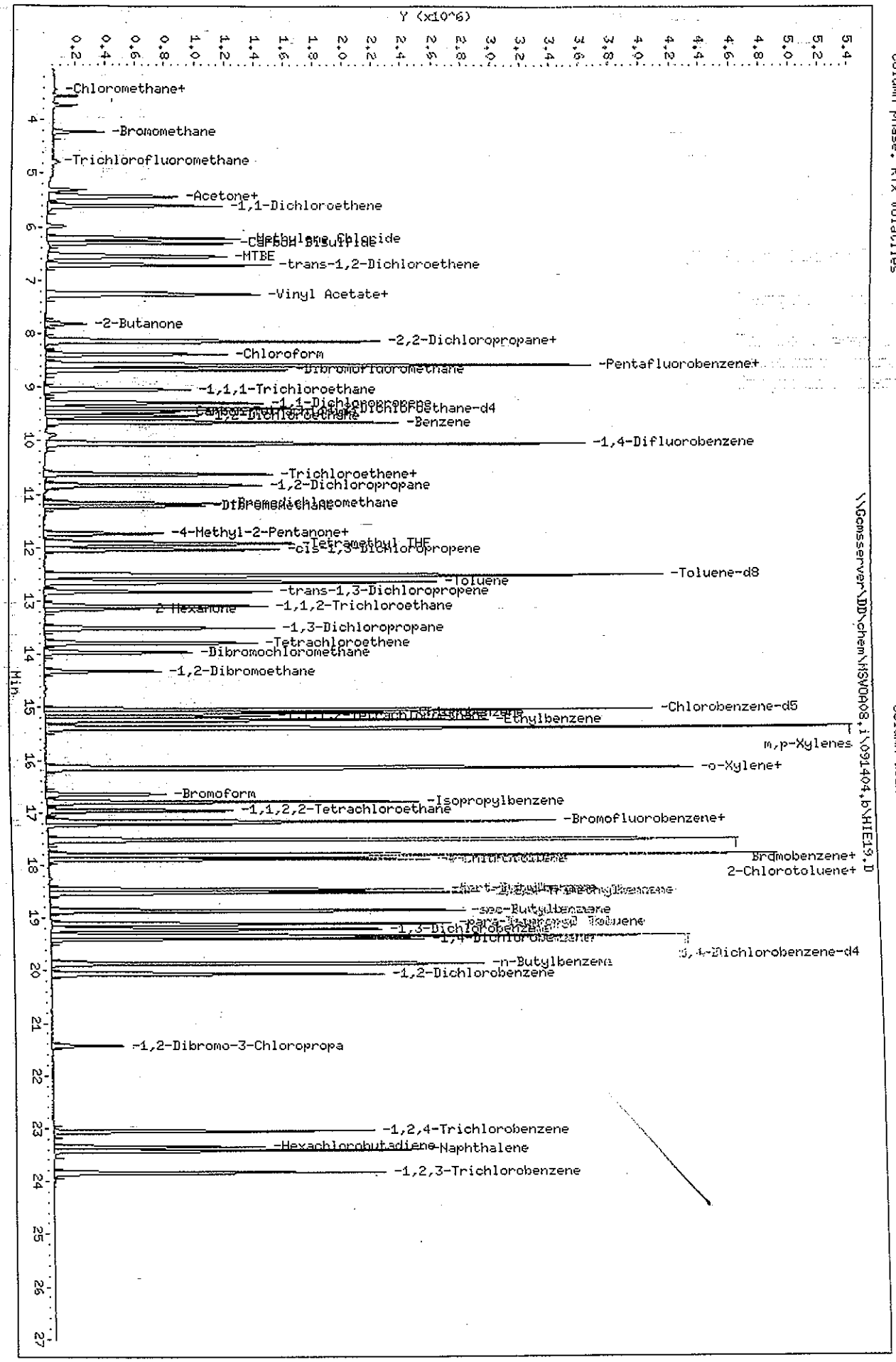
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
78 1,2,3-Trichlorobenzene	180	23.842	23.840	(1.233)	525283	52.0614	52.0614

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA08.i\091404.b\HIE19.D
Date : 14-SEP-2004 22:01
Client ID: DYNA P&T
Sample Info: ICV,04WS1554,0.02/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LM
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474410970003 Filename : hjb03 Injected : 11-OCT-2004 10:46
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (6667X), 04SS352 (12500X), 04WS1715 (25000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4379	0.5572	40.00000	50.90100	ug/L	27	30	0.0500	!c+
Chloromethane	0.4287	0.4892	40.00000	45.65200	ug/L	14	30	0.1000	
Vinyl Chloride	0.2942	0.3226	40.00000	43.86120	ug/L	10	20	0.0500	
Bromomethane	0.1772	0.1443	40.00000	32.57000	ug/L	-19	30	0.0500	
Chloroethane	0.1894	0.2104	40.00000	44.41910	ug/L	11	30	0.0500	
Trichlorofluoromethane	0.5101	0.6017	40.00000	47.18020	ug/L	18	30	0.0500	
Acetone	0.1624	0.1876	37.50000	46.42910	ug/L	24	40	0.0500	
Freon 113	0.2991	0.2878	37.50000	36.08310	ug/L	-4	30	0.0500	
1,1-Dichloroethene	0.2966	0.2731	37.50000	34.53530	ug/L	-8	20	0.0500	
Methylene Chloride	0.3846	0.3739	37.50000	36.46050	ug/L	-3	30	0.0500	
Carbon Disulfide	1.1484	1.0795	37.50000	35.24860	ug/L	-6	30	0.0500	
MTBE	0.8243	0.6964	37.50000	31.68390	ug/L	-16	30	0.0500	
trans-1,2-Dichloroethene	0.3367	0.3211	37.50000	35.75950	ug/L	-5	30	0.0500	
Vinyl Acetate	0.9409	0.8680	37.50000	34.59530	ug/L	-8	40	0.0500	
1,1-Dichloroethane	0.6132	0.6211	37.50000	37.98490	ug/L	1	30	0.1000	
2-Butanone	0.2067	0.2058	37.50000	37.33030	ug/L	0	40	0.0500	
2,2-Dichloropropane	0.4357	0.4428	37.50000	38.10760	ug/L	2	30	0.0500	
cis-1,2-Dichloroethene	0.3462	0.3425	37.50000	37.10130	ug/L	-1	30	0.0500	
Chloroform	0.5880	0.5998	37.50000	38.25160	ug/L	2	20	0.0500	
Bromochloromethane	0.1678	0.1740	37.50000	38.87980	ug/L	4	30	0.0500	
1,1,1-Trichloroethane	0.4272	0.4330	37.50000	38.00870	ug/L	1	30	0.0500	
1,1-Dichloropropene	0.2622	0.2400	37.50000	34.32570	ug/L	-8	30	0.0500	
Carbon Tetrachloride	0.2049	0.2009	37.50000	36.76750	ug/L	-2	30	0.0500	
1,2-Dichloroethane	0.2641	0.2608	37.50000	37.04180	ug/L	-1	30	0.0500	
Benzene	0.7466	0.6839	37.50000	34.35100	ug/L	-8	30	0.0500	
Trichloroethene	0.1852	0.1732	37.50000	35.07740	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.1956	0.1860	37.50000	35.64510	ug/L	-5	20	0.0500	
Bromodichloromethane	0.2607	0.2492	37.50000	35.83430	ug/L	-4	30	0.0500	
Dibromomethane	0.1487	0.1447	37.50000	36.50970	ug/L	-3	30	0.0500	
2-Chloroethylvinylether	3.1E-4	1.9E-4	40.00000	23.75360	ug/L	-41	40	0.0500	! c- crf
4-Methyl-2-Pentanone	0.2400	0.2117	37.50000	33.07250	ug/L	-12	40	0.0500	
Tetramethyl THF	0.4895	0.4804	37.50000	36.80310	ug/L	-2	30	0.0500	
cis-1,3-Dichloropropene	0.3159	0.2992	37.50000	35.52280	ug/L	-5	30	0.0500	
Toluene	0.4210	0.3982	37.50000	35.47150	ug/L	-5	20	0.0500	
trans-1,3-Dichloropropene	0.2807	0.2674	37.50000	35.72590	ug/L	-5	30	0.0500	
1,1,2-Trichloroethane	0.1036	0.0980	37.50000	35.46200	ug/L	-5	30	0.0500	
2-Hexanone	0.2026	0.1916	37.50000	35.47230	ug/L	-5	40	0.0500	
1,3-Dichloropropane	0.3577	0.3450	37.50000	36.16210	ug/L	-4	30	0.0500	
Tetrachloroethene	0.1878	0.1732	37.50000	34.58310	ug/L	-8	30	0.0500	
Dibromochloromethane	0.2295	0.2165	37.50000	35.38670	ug/L	-6	30	0.0500	
1,2-Dibromoethane	0.1916	0.1832	37.50000	35.85890	ug/L	-4	30	0.0500	
Chlorobenzene	0.5673	0.5303	37.50000	35.05440	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1887	0.1783	37.50000	35.42920	ug/L	-6	30	0.0500	
Ethylbenzene	0.9838	0.9330	37.50000	35.56290	ug/L	-5	20	0.0500	
m,p-Xylenes	0.3509	0.3364	75.00000	71.89300	ug/L	-4	30	0.0500	
o-Xylene	0.3475	0.3273	37.50000	35.31810	ug/L	-6	30	0.0500	

!=calc err +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474410970003 Filename : hjb03 Injected : 11-OCT-2004 10:46
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04WS1756 (6667X), 04SS352 (12500X), 04WS1715 (25000X), 04WS1580 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.6004	0.5620	37.50000	35.10110	ug/L	-6	30	0.0500	
Bromoform	0.1693	0.1445	37.50000	31.99480	ug/L	-15	30	0.1000	
Isopropylbenzene	1.8676	1.7606	37.50000	35.35110	ug/L	-6	30	0.0500	
1,1,2,2-Tetrachloroethane	0.6555	0.6483	37.50000	37.08820	ug/L	-1	30	0.3000	
1,2,3-Trichloropropane	0.1712	0.1524	37.50000	36.46020	ug/L	-3	30	0.0500	
Propylbenzene	2.4126	2.2895	37.50000	35.58650	ug/L	-5	30	0.0500	
Bromobenzene	0.4628	0.4416	37.50000	35.77950	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	1.5358	1.4378	37.50000	35.10800	ug/L	-6	30	0.0500	
2-Chlorotoluene	1.5989	1.4969	37.50000	35.10790	ug/L	-6	30	0.0500	
4-Chlorotoluene	1.4914	1.4080	37.50000	35.40290	ug/L	-6	30	0.0500	
tert-Butylbenzene	1.3699	1.2687	37.50000	34.72890	ug/L	-7	30	0.0500	
1,2,4-Trimethylbenzene	1.5728	1.4951	37.50000	35.64650	ug/L	-5	30	0.0500	
sec-Butylbenzene	2.1301	1.9730	37.50000	34.73420	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	1.6453	1.5296	37.50000	34.86500	ug/L	-7	30	0.0500	
1,3-Dichlorobenzene	0.8843	0.8275	37.50000	35.08880	ug/L	-6	30	0.0500	
1,4-Dichlorobenzene	0.9036	0.8614	37.50000	35.74990	ug/L	-5	30	0.0500	
n-Butylbenzene	1.6564	1.5922	37.50000	36.04550	ug/L	-4	30	0.0500	
1,2-Dichlorobenzene	0.8487	0.8103	37.50000	35.80310	ug/L	-5	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1113	0.1002	37.50000	33.77170	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	0.5366	0.4830	37.50000	33.75510	ug/L	-10	30	0.0500	
Hexachlorobutadiene	0.2145	0.1777	37.50000	31.06680	ug/L	-17	30	0.0500	
Naphthalene	1.3302	1.2837	37.50000	36.19080	ug/L	-3	30	0.0500	
1,2,3-Trichlorobenzene	0.5330	0.4768	37.50000	33.54220	ug/L	-11	30	0.0500	
Dibromofluoromethane	0.6083	0.6559	50.00000	53.91470	ug/L	8	30	0.0500	
1,2-Dichloroethane-d4	0.3989	0.4209	50.00000	52.75340	ug/L	6	30	0.0500	
Trifluorotoluene	0.2537	0.2300	37.50000	33.99790	ug/L	-9	30	0.0500	
Toluene-d8	0.9888	1.0127	50.00000	51.20880	ug/L	2	30	0.0500	
Bromofluorobenzene	1.1614	1.1677	50.00000	50.27040	ug/L	1	30	0.0500	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2413606	2.91	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4408257	9.07	10.05	10.04	-0.01
Chlorobenzene-d5	3289931	3663050	11.34	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1760208	13.67	19.34	19.34	0.00

10/12/04

10-11-04

!=calc err +=high bias -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB03.D
Report Date: 11-Oct-2004 11:46

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB03.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 11-OCT-2004 10:46 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : CCV,04WS1756,0.015/100,04SS352,0.008/100,
Misc Info : 04WS1715,0.004/100,37.5/40 PPB
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\I8M826W.m
Meth Date : 11-Oct-2004 11:46 tapsvc Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.117	3.116	(0.363)	1075872	50.0000	50.9009
2 Chloromethane	50	3.461	3.461	(0.404)	944679	50.0000	45.6520
3 Vinyl Chloride	62	3.609	3.599	(0.421)	622991	50.0000	43.8612
4 Bromomethane	94	4.219	4.220	(0.492)	278591	50.0000	32.5699
5 Chloroethane	64	4.346	4.338	(0.507)	406200	50.0000	44.4191
6 Trichlorofluoromethane	101	4.760	4.762	(0.555)	1161753	50.0000	47.1802
7 Acetone	43	5.301	5.304	(0.618)	339547	50.0000	46.4290
8 Freon 113	101	5.425	5.423	(0.633)	973857	50.0000	36.0831
9 1,1-Dichloroethene	96	5.596	5.600	(0.652)	434433	50.0000	34.5352
10 Methylene Chloride	84	6.205	6.212	(0.724)	676863	50.0000	36.4604
11 Carbon Disulfide	76	6.294	6.300	(0.734)	3954008	50.0000	35.2486
12 MTBE	73	6.540	6.547	(0.763)	1261692	50.0000	31.6838
13 trans-1,2-Dichloroethene	96	6.697	6.705	(0.781)	561334	50.0000	35.7595
14 Vinyl Acetate	43	7.238	7.237	(0.844)	1571223	50.0000	34.5953
15 1,1-Dichloroethane	63	7.258	7.267	(0.846)	1124385	50.0000	37.9848
16 2-Butanone	43	7.809	7.809	(0.911)	322456	50.0000	37.3303

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB03.D
Report Date: 11-Oct-2004 11:46

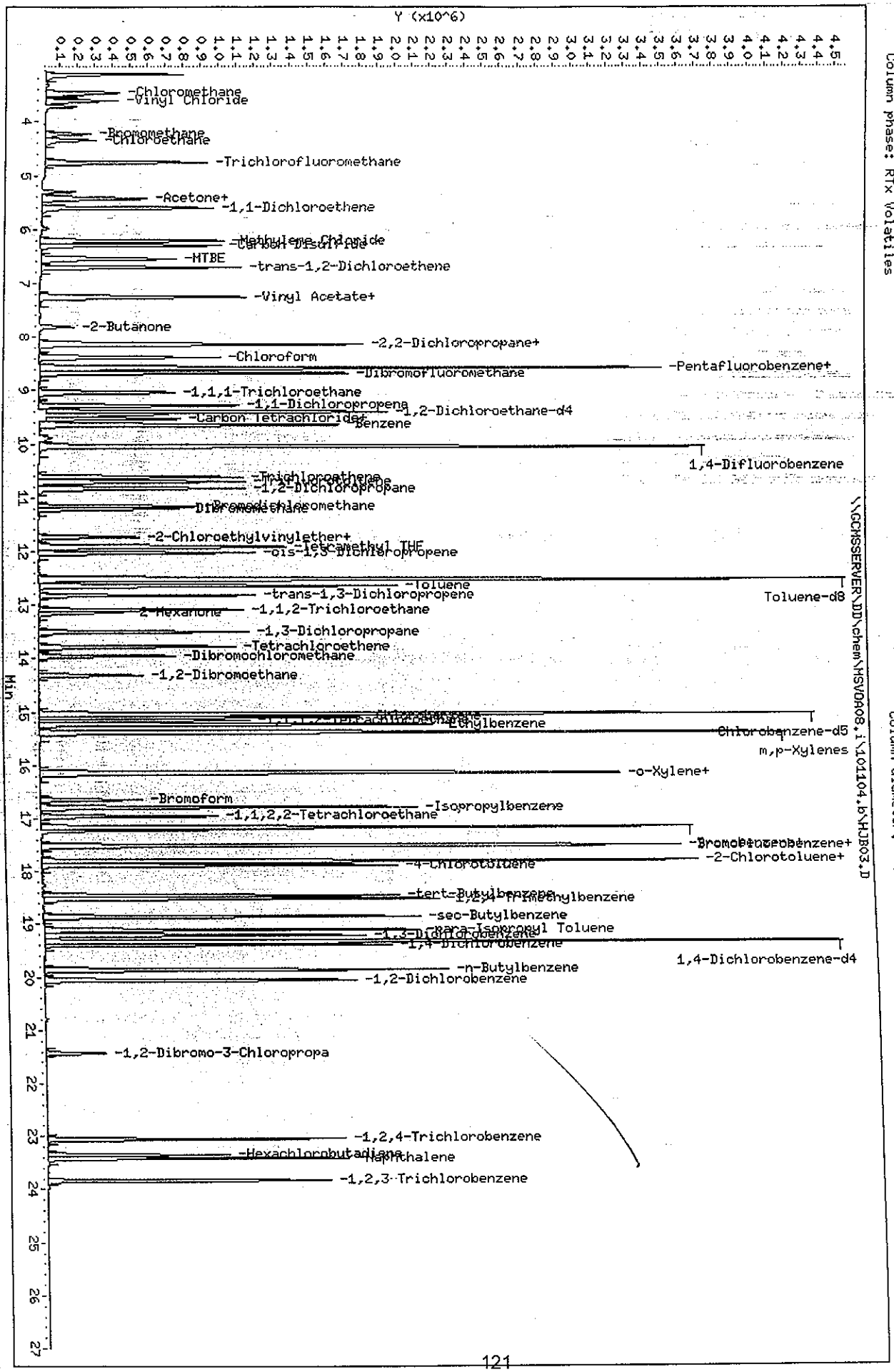
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 2,2-Dichloropropane	77	8.133	8.134	(0.948)	801558	50.0000	38.1075
	18 cis-1,2-Dichloroethene	96	8.133	8.134	(0.948)	620079	50.0000	37.1012
	19 Chloroform	83	8.379	8.381	(0.977)	1085748	50.0000	38.2515
*	20 Pentafluorobenzene	168	8.576	8.578	(1.000)	2413606	50.0000	
	21 Bromochloromethane	128	8.576	8.578	(1.000)	314941	50.0000	38.8798
$	22 Dibromofluoromethane	113	8.674	8.676	(1.011)	1583167	50.0000	53.9147
	23 1,1,1-Trichloroethane	97	9.038	9.041	(1.054)	783877	50.0000	38.0087
	24 1,1-Dichloropropene	75	9.284	9.288	(0.925)	793544	50.0000	34.3256
$	25 1,2-Dichloroethane-d4	65	9.392	9.396	(0.935)	1855294	50.0000	52.7534
	26 Carbon Tetrachloride	117	9.461	9.465	(0.942)	664167	50.0000	36.7674
	27 1,2-Dichloroethane	62	9.530	9.534	(0.949)	862349	50.0000	37.0418
	28 Benzene	78	9.638	9.643	(0.960)	2261260	50.0000	34.3510
*	29 1,4-Difluorobenzene	114	10.041	10.047	(1.000)	4408257	50.0000	
	30 Trichloroethene	95	10.612	10.619	(1.057)	572660	50.0000	35.0773
$	31 Trifluorotoluene	146	10.700	10.707	(1.066)	760410	50.0000	33.9979
	32 1,2-Dichloropropane	63	10.828	10.836	(1.078)	614790	50.0000	35.6451
	33 Bromodichloromethane	83	11.163	11.161	(1.112)	823752	50.0000	35.8343
	34 Dibromomethane	93	11.212	11.210	(1.117)	478555	50.0000	36.5097
	35 2-Chloroethylvinylether	63	11.743	11.733	(1.169)	654	50.0000	23.7535
	36 4-Methyl-2-Pentanone	43	11.733	11.733	(1.168)	699808	50.0000	33.0725
	37 Tetramethyl THF	43	11.910	11.920	(1.186)	1588177	50.0000	36.8030
	38 cis-1,3-Dichloropropene	75	12.028	12.038	(1.198)	989292	50.0000	35.5227
$	39 Toluene-d8	98	12.510	12.522	(1.246)	4464300	50.0000	51.2087
	40 Toluene	92	12.638	12.650	(1.259)	1316635	50.0000	35.4714
	41 trans-1,3-Dichloropropene	75	12.825	12.827	(1.277)	884014	50.0000	35.7259
	42 1,1,2-Trichloroethane	85	13.090	13.093	(1.304)	323967	50.0000	35.4619
	43 2-Hexanone	43	13.149	13.153	(0.874)	526416	50.0000	35.4723
	44 1,3-Dichloropropane	76	13.504	13.508	(0.898)	947747	50.0000	36.1620
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	475800	50.0000	34.5831
	46 Dibromochloromethane	129	13.956	13.961	(0.928)	594919	50.0000	35.3867
	47 1,2-Dibromoethane	107	14.330	14.336	(1.425)	605759	50.0000	35.8589
*	48 Chlorobenzene-d5	117	15.038	15.045	(1.000)	[illegible]	50.0000	
	49 Chlorobenzene	112	15.107	15.115	(1.005)	[illegible]	50.0000	35.0544
	50 1,1,1,2-Tetrachloroethane	131	15.166	15.174	(1.008)	[illegible]	50.0000	35.4291
	51 Ethylbenzene	91	15.235	15.243	(1.013)	[illegible]	50.0000	35.5629
	52 m,p-Xylenes	106	15.382	15.391	(1.023)	[illegible]	100.000	71.8929
	53 o-Xylene	106	16.130	16.140	(1.073)	899192	50.0000	35.3180
	54 Styrene	104	16.159	16.160	(1.075)	1543806	50.0000	35.1011
	55 Bromoform	173	16.641	16.653	(1.107)	396945	50.0000	31.9947
	56 Isopropylbenzene	105	16.789	16.791	(0.868)	2324215	50.0000	35.3510
	57 1,1,2,2-Tetrachloroethane	83	16.956	16.958	(0.877)	855910	50.0000	37.0882
$	58 Bromofluorobenzene	95	17.162	17.165	(0.888)	2055449	50.0000	50.2704
	59 1,2,3-Trichloropropane	110	17.221	17.225	(0.891)	201149	50.0000	36.4601
	60 Bromobenzene	156	17.507	17.510	(0.905)	582964	50.0000	35.7795
	61 Propylbenzene	91	17.517	17.520	(0.906)	3022458	50.0000	35.5865
	62 2-Chlorotoluene	91	17.792	17.796	(0.920)	1976170	50.0000	35.1078
	63 1,3,5-Trimethylbenzene	105	17.812	17.816	(0.921)	1898111	50.0000	35.1080

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB03.D
Report Date: 11-Oct-2004 11:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	17.880	17.885	(0.925)	1858838	50.0000	35.4029
65 tert-Butylbenzene	119	18.461	18.457	(0.955)	1674862	50.0000	34.7288
66 1,2,4-Trimethylbenzene	105	18.520	18.526	(0.958)	1973760	50.0000	35.6465
67 sec-Butylbenzene	105	18.854	18.861	(0.975)	2604611	50.0000	34.7342
68 para-Isopropyl Toluene	119	19.110	19.118	(0.988)	2019370	50.0000	34.8650
69 1,3-Dichlorobenzene	146	19.208	19.216	(0.993)	1092370	50.0000	35.0887
* 70 1,4-Dichlorobenzene-d4	152	19.336	19.334	(1.000)	1760208	50.0000	
71 1,4-Dichlorobenzene	146	19.385	19.394	(1.003)	1137225	50.0000	35.7498
72 n-Butylbenzene	91	19.857	19.867	(1.027)	2101909	50.0000	36.0455
73 1,2-Dichlorobenzene	146	20.054	20.064	(1.037)	1069707	50.0000	35.8031
74 1,2-Dibromo-3-Chloropropane	75	21.431	21.434	(1.108)	132340	50.0000	33.7717
75 1,2,4-Trichlorobenzene	180	23.054	23.061	(1.192)	637683	50.0000	33.7550
76 Hexachlorobutadiene	225	23.349	23.357	(1.208)	234580	50.0000	31.0668
77 Naphthalene	128	23.418	23.426	(1.211)	1694705	50.0000	36.1907
78 1,2,3-Trichlorobenzene	180	23.831	23.840	(1.232)	629420	50.0000	33.5422

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\101104.b\HJB03.D
Date : 11-OCT-2004 10:46
Client ID: DYNA P&T
Sample Info: CCV,04WS1756,0.015/100,04SS352,0.008/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

Laboratory Number 175836

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX137[0.5]	175836-001
BB3EX138[0.5]	175836-002
BB3EX143[0.5]	175836-003
DUP110504A	175836-004
BB3EX140[0.5]	175836-005
BB3EX141[2.5]	175836-006
BB3EX141[5.5]	175836-007
BB3EX142[0.5]	175836-008
BB3EX144[0.5]	175836-009
TB110504A	175836-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 11/16/04
Operations Manager

Signature: _____ Date: 11/16/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	175836
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/05/04
Samples Received:	11/05/04

This hardcopy data package contains sample and QC results for nine soil samples, requested for the above referenced project on 11/05/04. The samples were received cold and intact.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 11/03/04 15:12; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low surrogate recoveries were observed for TCMX in BB3EX137[0.5] (lab # 175836-001), BB3EX138[0.5] (lab # 175836-002), and BB3EX141[5.5] (lab # 175836-007); the corresponding decachlorobiphenyl surrogate recoveries were within limits. No other analytical problems were encountered.

PCBs (EPA 8082):
High response was observed for Aroclor-1254 in the CCV analyzed 11/09/04 17:36; this analyte was not detected at or above the RL in the associated samples. Low surrogate recovery was observed for decachlorobiphenyl in the method blank for batch 96179; the corresponding TCMX surrogate recovery was within limits. No other analytical problems were encountered.

Metals (EPA 6010B):
Low recoveries were observed for antimony and zinc in the MS/MSD for batch 96221; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. Response exceeding the instrument's linear range was observed for iron in the MS/MSD for batch 96221. High % difference was observed for arsenic in the serial dilution for batch 96221. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

175836

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2993.12
Project Manager\Contact: S. Gonda Rivas
Samplers: Mike Chamberlain (MAC)
Recorder (Signature Required): [signature]

Turnaround Time: 24 hr*

-1	BB3EX137 [0.5]	11/5/04	0753		X							1		X	X	X												
-2	BB3EX138 [0.8]		0756		X							1		X	X	X												
N/A	BB3EX139 [0.5]		0759		X							1		X	X	X	X	X	X	X	X	X			X		*5 day TAT	
-3	BB3EX143 [0.5]		1333		X							1		X	X	X												
-4	BUP110504A		1334		X							1		X	X	X												
-5	BB3EX140 [0.5]		1338		X							1		X	X	X												
-6	BB3EX141 [2.5]		1342		X							1		X	X	X												
-7	BB3EX141 [5.5]		1345		X							1		X	X	X												
-8	BB3EX142 [0.5]		1348		X							1		X	X	X												
-9	BB3EX144 [0.5]		1353		X							1		X	X	X												
-10	TB110504A	11/05/04	1400		X			2				~~1~~					X											

Sample all tubes and label with time & initials

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/05/04	1422	[signature]	11/5/04	1422
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: *RECEIVED ON ICE

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002243

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175836 Date Received: 11-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 11-5-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: Cold - no temp blank

B. Login Phase
Date Logged In: 11-5-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Describe type of packing in cooler: in ziploc bags under ice
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____
_____
_____
_____
_____
_____

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX137[0.5]	Batch#:	96215
Lab ID:	175836-001	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.48
Methoxychlor	ND	18	
Toxaphene	ND	62	

Surrogate	%REC	Limits
TCMX	38 *	65-135
Decachlorobiphenyl	67	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX138[0.5]	Batch#:	96215
Lab ID:	175836-002	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/08/04
Diln Fac:	1.000		

Moisture: 8%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.6	
4,4'-DDE	ND	3.6	
Endrin	ND	3.6	
Endosulfan II	ND	3.6	
Endosulfan sulfate	ND	3.6	
4,4'-DDD	ND	3.6	
Endrin ketone	ND	3.6	
4,4'-DDT	ND	3.6	
Chlordane (Technical)	ND	33	
alpha-Chlordane	ND	1.8	0.54
gamma-Chlordane	ND	1.8	0.51
Methoxychlor	ND	18	
Toxaphene	ND	65	

Surrogate	%REC	Limits
TCMX	64 *	65-135
Decachlorobiphenyl	72	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX143[0.5]	Batch#:	96215
Lab ID:	175836-003	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Moisture: 8%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.6	
4,4'-DDE	ND	3.6	
Endrin	ND	3.6	
Endosulfan II	ND	3.6	
Endosulfan sulfate	ND	3.6	
4,4'-DDD	ND	3.6	
Endrin ketone	ND	3.6	
4,4'-DDT	ND	3.6	
Chlordane (Technical)	ND	33	
alpha-Chlordane	ND	1.8	0.54
gamma-Chlordane	ND	1.8	0.51
Methoxychlor	ND	18	
Toxaphene	ND	65	

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	70	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP110504A	Batch#:	96215
Lab ID:	175836-004	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	2.000		

Moisture: 9%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	3.7	
beta-BHC	ND	3.7	
gamma-BHC	ND	3.7	
delta-BHC	ND	3.7	
Heptachlor	ND	3.7	
Aldrin	ND	3.7	
Heptachlor epoxide	ND	3.7	
Endosulfan I	ND	3.7	
Dieldrin	ND	7.2	
4,4'-DDE	ND	7.2	
Endrin	ND	7.2	
Endosulfan II	ND	7.2	
Endosulfan sulfate	ND	7.2	
4,4'-DDD	ND	7.2	
Endrin ketone	ND	7.2	
4,4'-DDT	ND	7.2	
Chlordane (Technical)	ND	65	
alpha-Chlordane	ND	3.7	1.1
gamma-Chlordane	ND	3.7	1.0
Methoxychlor	ND	37	
Toxaphene	ND	130	

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX140[0.5]	Batch#:	96215
Lab ID:	175836-005	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	ND	1.8	0.53
gamma-Chlordane	ND	1.8	0.50
Methoxychlor	ND	18	
Toxaphene	ND	63	

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	83	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX141[2.5]	Batch#:	96215
Lab ID:	175836-006	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Moisture: 9%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.9	
beta-BHC	ND	1.9	
gamma-BHC	ND	1.9	
delta-BHC	ND	1.9	
Heptachlor	ND	1.9	
Aldrin	ND	1.9	
Heptachlor epoxide	ND	1.9	
Endosulfan I	ND	1.9	
Dieldrin	ND	3.7	
4,4'-DDE	ND	3.7	
Endrin	ND	3.7	
Endosulfan II	ND	3.7	
Endosulfan sulfate	ND	3.7	
4,4'-DDD	ND	3.7	
Endrin ketone	ND	3.7	
4,4'-DDT	ND	3.7	
Chlordane (Technical)	ND	33	
alpha-Chlordane	ND	1.9	0.55
gamma-Chlordane	ND	1.9	0.52
Methoxychlor	ND	19	
Toxaphene	ND	66	

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	98	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX141[5.5]	Batch#:	96215
Lab ID:	175836-007	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Moisture: 7%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	ND	1.8	0.54
gamma-Chlordane	ND	1.8	0.51
Methoxychlor	ND	18	
Toxaphene	ND	64	

Surrogate	%REC	Limits
TCMX	55 *	65-135
Decachlorobiphenyl	72	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX142[0.5]	Batch#:	96215
Lab ID:	175836-008	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.48
Methoxychlor	ND	18	
Toxaphene	ND	62	

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	78	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX144[0.5]	Batch#:	96215
Lab ID:	175836-009	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.48
Methoxychlor	ND	17	
Toxaphene	ND	61	

Surrogate	%REC	Limits
TCMX	66	65-135
Decachlorobiphenyl	74	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC271182	Batch#:	96215
Matrix:	Soil	Prepared:	11/06/04
Units:	ug/Kg	Analyzed:	11/08/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	ND	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	ND	1.7	0.50
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	74	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC271183	Batch#:	96215
Matrix:	Soil	Prepared:	11/06/04
Units:	ug/Kg	Analyzed:	11/08/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.51	12.98	79	65-135
Heptachlor	16.51	13.64	83	65-135
Aldrin	16.51	13.63	83	65-135
Dieldrin	16.51	13.69	83	65-135
Endrin	16.51	13.72	83	65-135
4,4'-DDT	16.51	14.26	86	65-135

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	76	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX138[0.5]	Batch#:	96215
MSS Lab ID:	175836-002	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	ug/Kg	Prepared:	11/06/04
Basis:	dry	Analyzed:	11/09/04
Diln Fac:	1.000		

Type: MS Moisture: 8%
Lab ID: QC271184 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.3913	18.08	15.72	87	65-135
Heptachlor	<0.5326	18.08	16.82	93	65-135
Aldrin	<0.4457	18.08	16.76	93	65-135
Dieldrin	<0.6957	18.08	17.15	95	65-135
Endrin	<0.7283	18.08	17.09	95	65-135
4,4'-DDT	<1.304	18.08	15.71	87	65-135

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	79	65-135

Type: MSD Moisture: 8%
Lab ID: QC271185 Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	18.12	15.43	85	65-135	2	35
Heptachlor	18.12	15.64	86	65-135	8	35
Aldrin	18.12	15.75	87	65-135	6	35
Dieldrin	18.12	15.88	88	65-135	8	35
Endrin	18.12	16.01	88	65-135	7	35
4,4'-DDT	18.12	13.97	77	65-135	12	35

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	68	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234443043001 Name: Type: (normal) Date: 02-NOV-2004 23:49 Inj Vol (uL): 1

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	307_020	234443043020	pest_1	02-NOV-2004 23:49	04WS1628
2	307_021	234443043021	pest_2	03-NOV-2004 00:19	04WS1629
3	307_022	234443043022	pest_3	03-NOV-2004 00:50	04WS1630
4	307_023	234443043023	pest_4	03-NOV-2004 01:21	04WS1632
5	307_024	234443043024	pest_5	03-NOV-2004 01:52	04WS1633
6	307_025	234443043025	pest_6	03-NOV-2004 02:22	04WS1634
7	307_026	234443043026	pest_7	03-NOV-2004 02:54	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	5472.0	6121.9	6798.1	8743.3	8385.9	9495.2	10837	AVRG	R		1.253E-4		pg	7979.0	24	0.995	20	rsd ***
gamma-BHC	A	5904.6	6400.4	6971.8	8599.4	8204.1	8902.3	9921.1	AVRG	R		1.275E-4		pg	7843.4	19	0.995	20	
beta-BHC	A	5709.2	4928.9	4599.5	4881.3	4602.4	4631.6	4940.3	AVRG	R		2.041E-4		pg	4899.0	8	0.995	20	
delta-BHC	A	8480.9	7109.5	7081.7	8475.4	8203.0	8871.9	9831.2	AVRG	R		1.206E-4		pg	8293.4	12	0.995	20	
Heptachlor	A	7497.2	7329.5	7205.5	7898.0	7375.7	7327.1	7782.7	AVRG	R		1.335E-4		pg	7487.9	3	0.995	20	
Aldrin	A	6306.9	6337.8	6508.7	7594.2	7282.1	7727.9	8349.8	AVRG	R		1.397E-4		pg	7158.2	11	0.995	20	
Heptachlor epoxide	A	7985.5	7695.2	7468.5	7915.7	7528.4	7461.8	7591.1	AVRG	R		1.305E-4		pg	7663.7	3	0.995	20	
gamma-Chlordane	A	7959.5	7754.5	7639.3	8255.3	7930.6	8117.8	8490.4	AVRG	R		1.247E-4		pg	8021.1	4	0.995	20	
alpha-Chlordane	A	7980.7	7809.0	7722.9	8303.4	7933.7	8035.1	8282.6	AVRG	R		1.248E-4		pg	8009.6	3	0.995	20	
4,4'-DDE	A	6113.1	6553.1	7040.0	7767.1	7534.4	7575.6	7599.5	AVRG	R		1.395E-4		pg	7169.0	9	0.995	20	
Endosulfan I	A	7423.1	7045.6	6910.9	7454.8	7121.2	7203.8	7357.2	AVRG	R		1.386E-4		pg	7216.7	3	0.995	20	
Dieldrin	A	6940.4	7091.5	7268.9	7750.0	7438.5	7338.5	7269.5	AVRG	R		1.370E-4		pg	7299.6	4	0.995	20	
Endrin	A	6343.6	6421.6	6504.0	6815.8	6545.7	6411.9	6330.5	AVRG	R		1.543E-4		pg	6481.9	3	0.995	20	
4,4'-DDD	A	4868.7	5272.0	5521.1	6084.1	5982.9	6089.7	6023.1	AVRG	R		1.757E-4		pg	5691.7	8	0.995	20	
Endosulfan II	A	7502.0	7273.4	7117.7	7268.2	6999.0	6791.0	6600.5	AVRG	R		1.413E-4		pg	7078.8	4	0.995	20	
4,4'-DDT	A	4431.6	4646.0	5128.6	5714.2	5689.3	5734.9	5874.0	AVRG	R		1.881E-4		pg	5316.9	11	0.995	20	
Methoxychlor	A	3316.3	3091.4	2900.1	2730.9	2629.1	2436.5	2345.4	AVRG	R		3.599E-4		pg	2778.5	13	0.995	20	
Endosulfan sulfate	A	8139.2	7153.9	6711.1	6641.3	6433.2	6208.7	6047.0	AVRG	R		1.479E-4		pg	6762.1	10	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234443043001 Name: Type: (normal) Date: 02-NOV-2004 23:49 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	8034.1	7735.6	7677.8	7725.1	7550.3	7266.6	6987.1	AVRG	R		1.321E-4		pg	7568.1	5	0.995	20	
TCMX	A	6824.1	7290.7	7230.9	7644.8	7159.8	7109.0	7365.5	AVRG	R		1.383E-4		pg	7232.1	3	0.995	20	
Decachlorobiphenyl	A	10343	9035.1	8378.4	7754.7	7505.3	6536.9		AVRG	R		1.211E-4		pg	8258.9	16	0.995	20	
alpha-BHC	B	39160	39989	39131	41392	38574	38485		AVRG	R		2.535E-5		pg	39455	3	0.995	20	
gamma-BHC	B	38349	37389	35926	37357	34792	34286	34376	AVRG	R		2.773E-5		pg	36068	5	0.995	20	
beta-BHC	B	30108	23506	20199	19191	17742	16615	16899	AVRG	R		4.852E-5		pg	20609	23	0.995	20	rsd ***
delta-BHC	B	57237	43551	38354	38383	36069	34937	33755	AVRG	R		2.480E-5		pg	40327	20	0.995	20	
Heptachlor	B	29288	26536	24476	24993	23231	21939	22798	AVRG	R		4.040E-5		pg	24752	10	0.995	20	
Aldrin	B	37398	35374	33350	34253	32081	30844	30808	AVRG	R		2.990E-5		pg	33444	7	0.995	20	
Heptachlor epoxide	B	38248	34172	31075	30390	28418	26582	26088	AVRG	R		3.256E-5		pg	30710	14	0.995	20	
gamma-Chlordane	B	41102	36601	33624	33310	31590	30514	30293	AVRG	R		2.953E-5		pg	33862	11	0.995	20	
alpha-Chlordane	B	40166	36108	33155	32414	30775	29489	29383	AVRG	R		3.024E-5		pg	33070	12	0.995	20	
4,4'-DDE	B	32371	31191	29981	29849	28583	27492		AVRG	R		3.343E-5		pg	29911	6	0.995	20	
Endosulfan I	B	37051	32746	30016	29072	27388	25649	24788	AVRG	R		3.386E-5		pg	29530	14	0.995	20	
Dieldrin	B	33918	31715	29726	29043	27498	25900		AVRG	R		3.375E-5		pg	29633	10	0.995	20	
Endrin	B	29624	27019	25120	24323	23132	21827		AVRG	R		3.972E-5		pg	25174	11	0.995	20	
4,4'-DDD	B	25353	23884	22455	22172	21557	21001		AVRG	R		4.398E-5		pg	22737	7	0.995	20	
Endosulfan II	B	34609	29941	27167	25581	24383	22757		AVRG	R		3.649E-5		pg	27406	16	0.995	20	
4,4'-DDT	B	18001	17233	17495	17908	17627	17323	16086	AVRG	R		5.753E-5		pg	17382	4	0.995	20	
Methoxychlor	B	9153.5	7994.1	7404.8	7150.0	6998.1	6157.4		AVRG	R		1.338E-4		pg	7476.3	14	0.995	20	
Endosulfan sulfate	B	35100	28294	24902	23255	22248	20881		AVRG	R		3.879E-5		pg	25780	20	0.995	20	
Endrin ketone	B	32490	28351	26096	24849	24118	22842		AVRG	R		3.780E-5		pg	26458	13	0.995	20	
TCMX	B	34048	31725	28689	27801	25730	24379		AVRG	R		3.481E-5		pg	28729	13	0.995	20	
Decachlorobiphenyl	B	28981	24029	21958	20271	19783	17632		AVRG	R		4.523E-5		pg	22109	18	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	8	20	
EPA 8081A	B	22	12	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Calname :
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :

ICV 234443043035 (307_035) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
alpha-BHC	A	234443043035	03-NOV-2004	25.000	24.414	pg	-2	15	
gamma-BHC	A	234443043035	03-NOV-2004	25.000	24.257	pg	-3	15	
beta-BHC	A	234443043035	03-NOV-2004	25.000	21.776	pg	-13	15	
delta-BHC	A	234443043035	03-NOV-2004	25.000	23.895	pg	-4	15	
Heptachlor	A	234443043035	03-NOV-2004	25.000	23.037	pg	-8	15	
Aldrin	A	234443043035	03-NOV-2004	25.000	24.745	pg	-1	15	
Heptachlor epoxide	A	234443043035	03-NOV-2004	25.000	23.704	pg	-5	15	
gamma-Chlordane	A	234443043035	03-NOV-2004	25.000	24.172	pg	-3	15	
alpha-Chlordane	A	234443043035	03-NOV-2004	25.000	25.143	pg	1	15	
4,4'-DDE	A	234443043035	03-NOV-2004	25.000	25.244	pg	1	15	
Endosulfan I	A	234443043035	03-NOV-2004	25.000	24.863	pg	-1	15	
Dieldrin	A	234443043035	03-NOV-2004	25.000	24.948	pg	0	15	
Endrin	A	234443043035	03-NOV-2004	25.000	25.384	pg	2	15	
4,4'-DDD	A	234443043035	03-NOV-2004	25.000	25.681	pg	3	15	
Endosulfan II	A	234443043035	03-NOV-2004	25.000	25.530	pg	2	15	
4,4'-DDT	A	234443043035	03-NOV-2004	25.000	25.827	pg	3	15	
Methoxychlor	A	234443043035	03-NOV-2004	25.000	28.695	pg	15	15	
Endosulfan sulfate	A	234443043035	03-NOV-2004	25.000	25.523	pg	2	15	
Endrin ketone	A	234443043035	03-NOV-2004	25.000	25.738	pg	3	15	
TCMX	A	234443043035	03-NOV-2004	25.000	28.098	pg	12	15	
Decachlorobiphenyl	A	234443043035	03-NOV-2004	25.000	26.815	pg	7	15	
alpha-BHC	B	234443043035	03-NOV-2004	25.000	23.455	pg	-6	15	
gamma-BHC	B	234443043035	03-NOV-2004	25.000	22.965	pg	-8	15	
beta-BHC	B	234443043035	03-NOV-2004	25.000	20.732	pg	**-17**	15	v- ***
delta-BHC	B	234443043035	03-NOV-2004	25.000	21.974	pg	-12	15	
Heptachlor	B	234443043035	03-NOV-2004	25.000	21.984	pg	-12	15	
Aldrin	B	234443043035	03-NOV-2004	25.000	23.775	pg	-5	15	
Heptachlor epoxide	B	234443043035	03-NOV-2004	25.000	22.943	pg	-8	15	
gamma-Chlordane	B	234443043035	03-NOV-2004	25.000	23.168	pg	-7	15	
alpha-Chlordane	B	234443043035	03-NOV-2004	25.000	23.829	pg	-5	15	
4,4'-DDE	B	234443043035	03-NOV-2004	25.000	25.648	pg	3	15	
Endosulfan I	B	234443043035	03-NOV-2004	25.000	24.158	pg	-3	15	
Dieldrin	B	234443043035	03-NOV-2004	25.000	24.997	pg	0	15	
Endrin	B	234443043035	03-NOV-2004	25.000	24.864	pg	-1	15	
4,4'-DDD	B	234443043035	03-NOV-2004	25.000	25.211	pg	1	15	
Endosulfan II	B	234443043035	03-NOV-2004	25.000	24.961	pg	0	15	
4,4'-DDT	B	234443043035	03-NOV-2004	25.000	26.425	pg	6	15	
Methoxychlor	B	234443043035	03-NOV-2004	25.000	28.891	pg	**16**	15	v+ ***
Endosulfan sulfate	B	234443043035	03-NOV-2004	25.000	24.715	pg	-1	15	
Endrin ketone	B	234443043035	03-NOV-2004	25.000	24.746	pg	-1	15	
TCMX	B	234443043035	03-NOV-2004	25.000	28.272	pg	13	15	
Decachlorobiphenyl	B	234443043035	03-NOV-2004	25.000	26.373	pg	5	15	

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	5	15	
EPA 8081A	B	22	6	15	

+=high bias -=low bias v=ICV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234451706009 Run Name: Injected: 08-NOV-2004 16:26
Filename: 313_009 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	295102.83
Endrin aldehyde	A	1521.06
Endrin ketone	A	7029.41

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	450252.66
4,4'-DDE	A	2318.67
4,4'-DDD	A	8422.25

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1091245.01
Endrin aldehyde	B	6218.7
Endrin ketone	B	34196.42

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1040833.5
4,4'-DDE	B	10896.99
4,4'-DDD	B	85480.42

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234451706018 Run Name: Injected: 08-NOV-2004 22:03
Filename: 313_018 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	292067.76
Endrin aldehyde	A	941.9
Endrin ketone	A	6363.99

Endrin Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	600294.85
4,4'-DDE	A	1666.53
4,4'-DDD	A	8508.4

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1318123.7
Endrin aldehyde	B	10982.53
Endrin ketone	B	37619.35

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1595698.93
4,4'-DDE	B	9705.65
4,4'-DDD	B	7977.8

4,4'-DDT Breakdown %: 1
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234451706035 Run Name: Injected: 09-NOV-2004 06:41
Filename: 313_035 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	306259.71
Endrin aldehyde	A	0
Endrin ketone	A	6010.81

Endrin Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	645793.83
4,4'-DDE	A	1599.82
4,4'-DDD	A	9910.51

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1457713.56
Endrin aldehyde	B	7518.77
Endrin ketone	B	38397.86

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1648527.11
4,4'-DDE	B	10521.82
4,4'-DDD	B	91644.45

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234451706011 Filename : 313_011 Injected : 08-NOV-2004 17:27
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :
Standards: 04WS1632

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	7979.0	8971.5	20.00000	22.48768	pg	12	15	rsd ***
gamma-BHC	A	7843.4	8733.6	20.00000	22.26986	pg	11	15	
beta-BHC	A	4899.0	4944.8	20.00000	20.18691	pg	1	15	
delta-BHC	A	8293.4	8672.4	20.00000	20.91406	pg	5	15	
Heptachlor	A	7487.9	8132.0	20.00000	21.72025	pg	9	15	
Aldrin	A	7158.2	7845.2	20.00000	21.91942	pg	10	15	
Heptachlor epoxide	A	7663.7	8166.5	20.00000	21.31203	pg	7	15	
gamma-Chlordane	A	8021.1	8605.4	20.00000	21.45705	pg	7	15	
alpha-Chlordane	A	8009.6	8626.1	20.00000	21.53928	pg	8	15	
4,4'-DDE	A	7169.0	8150.9	40.00000	45.47882	pg	14	15	
Endosulfan I	A	7216.7	7703.5	20.00000	21.34932	pg	7	15	
Dieldrin	A	7299.6	8078.8	40.00000	44.26983	pg	11	15	
Endrin	A	6481.9	7084.7	40.00000	43.72042	pg	9	15	
4,4'-DDD	A	5691.7	6056.3	40.00000	42.56245	pg	6	15	
Endosulfan II	A	7078.8	7444.4	40.00000	42.06587	pg	5	15	
4,4'-DDT	A	5316.9	5794.1	40.00000	43.58952	pg	9	15	
Methoxychlor	A	2778.5	2634.0	200.0000	189.5942	pg	-5	15	
Endosulfan sulfate	A	6762.1	6701.8	40.00000	39.64376	pg	-1	15	
Endrin ketone	A	7568.1	7537.2	40.00000	39.83679	pg	0	15	
TCMX	A	7232.1	7965.7	40.00000	44.05743	pg	10	15	
Decachlorobiphenyl	A	8258.9	7489.5	40.00000	36.27388	pg	-9	15	
alpha-BHC	B	39455	42017	20.00000	21.29873	pg	6	15	
gamma-BHC	B	36068	37421	20.00000	20.75036	pg	4	15	
beta-BHC	B	20609	19292	20.00000	18.72233	pg	-6	15	rsd ***
delta-BHC	B	40327	38858	20.00000	19.27184	pg	-4	15	
Heptachlor	B	24752	24743	20.00000	19.99348	pg	0	15	
Aldrin	B	33444	35388	20.00000	21.16278	pg	6	15	
Heptachlor epoxide	B	30710	31113	20.00000	20.26215	pg	1	15	
gamma-Chlordane	B	33862	34903	20.00000	20.61505	pg	3	15	
alpha-Chlordane	B	33070	33998	20.00000	20.56108	pg	3	15	
4,4'-DDE	B	29911	31061	40.00000	41.53810	pg	4	15	
Endosulfan I	B	29530	30174	20.00000	20.43611	pg	2	15	
Dieldrin	B	29633	30171	40.00000	40.72518	pg	2	15	
Endrin	B	25174	24664	40.00000	39.18926	pg	-2	15	
4,4'-DDD	B	22737	21489	40.00000	37.80445	pg	-5	15	
Endosulfan II	B	27406	26032	40.00000	37.99429	pg	-5	15	
4,4'-DDT	B	17382	17135	40.00000	39.43273	pg	-1	15	
Methoxychlor	B	7476.3	6628.1	200.0000	177.3092	pg	-11	15	
Endosulfan sulfate	B	25780	23281	40.00000	36.12256	pg	-10	15	
Endrin ketone	B	26458	23502	40.00000	35.53096	pg	-11	15	
TCMX	B	28729	28470	40.00000	39.64001	pg	-1	15	
Decachlorobiphenyl	B	22109	19296	40.00000	34.91128	pg	-13	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				5	15	

rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234451706021 Filename : 313_021 Injected : 08-NOV-2004 23:34
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :
Standards: 04WS1630

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	7979.0	6842.9	10.00000	8.576118	pg	-14	15	rsd ***
gamma-BHC	A	7843.4	6993.8	10.00000	8.916782	pg	-11	15	
beta-BHC	A	4899.0	4499.1	10.00000	9.183655	pg	-8	15	
delta-BHC	A	8293.4	6596.8	10.00000	7.954246	pg	-20	15	c- ***
Heptachlor	A	7487.9	6896.3	10.00000	9.209900	pg	-8	15	
Aldrin	A	7158.2	6668.9	10.00000	9.316448	pg	-7	15	
Heptachlor epoxide	A	7663.7	7759.7	10.00000	10.12525	pg	1	15	
gamma-Chlordane	A	8021.1	7788.4	10.00000	9.709987	pg	-3	15	
alpha-Chlordane	A	8009.6	7870.7	10.00000	9.826612	pg	-2	15	
4,4'-DDE	A	7169.0	7118.1	20.00000	19.85796	pg	-1	15	
Endosulfan I	A	7216.7	7037.1	10.00000	9.751188	pg	-2	15	
Dieldrin	A	7299.6	7547.7	20.00000	20.67980	pg	3	15	
Endrin	A	6481.9	6516.2	20.00000	20.10609	pg	1	15	
4,4'-DDD	A	5691.7	5283.6	20.00000	18.56606	pg	-7	15	
Endosulfan II	A	7078.8	7063.6	20.00000	19.95707	pg	0	15	
4,4'-DDT	A	5316.9	4724.0	20.00000	17.76949	pg	-11	15	
Methoxychlor	A	2778.5	2539.4	100.0000	91.39327	pg	-9	15	
Endosulfan sulfate	A	6762.1	6449.0	20.00000	19.07407	pg	-5	15	
Endrin ketone	A	7568.1	7011.9	20.00000	18.53029	pg	-7	15	
TCMX	A	7232.1	7403.8	20.00000	20.47466	pg	2	15	
Decachlorobiphenyl	A	8258.9	7818.7	20.00000	18.93417	pg	-5	15	
alpha-BHC	B	39455	39880	10.00000	10.10771	pg	1	15	
gamma-BHC	B	36068	36802	10.00000	10.20356	pg	2	15	
beta-BHC	B	20609	20174	10.00000	9.789203	pg	-2	15	rsd ***
delta-BHC	B	40327	36889	10.00000	9.147448	pg	-9	15	
Heptachlor	B	24752	23838	10.00000	9.631053	pg	-4	15	
Aldrin	B	33444	34664	10.00000	10.36468	pg	4	15	
Heptachlor epoxide	B	30710	32307	10.00000	10.51983	pg	5	15	
gamma-Chlordane	B	33862	35399	10.00000	10.45402	pg	5	15	
alpha-Chlordane	B	33070	34232	10.00000	10.35131	pg	4	15	
4,4'-DDE	B	29911	30307	20.00000	20.26489	pg	1	15	
Endosulfan I	B	29530	30833	10.00000	10.44134	pg	4	15	
Dieldrin	B	29633	30356	20.00000	20.48786	pg	2	15	
Endrin	B	25174	25955	20.00000	20.62014	pg	3	15	
4,4'-DDD	B	22737	21646	20.00000	19.04030	pg	-5	15	
Endosulfan II	B	27406	26989	20.00000	19.69579	pg	-2	15	
4,4'-DDT	B	17382	15881	20.00000	18.27265	pg	-9	15	
Methoxychlor	B	7476.3	6397.9	100.0000	85.57592	pg	-14	15	
Endosulfan sulfate	B	25780	23831	20.00000	18.48797	pg	-8	15	
Endrin ketone	B	26458	23945	20.00000	18.10064	pg	-9	15	
TCMX	B	28729	28858	20.00000	20.08967	pg	0	15	
Decachlorobiphenyl	B	22109	20143	20.00000	18.22173	pg	-9	15	
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				5	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_4 IDF : 1.0
Seqnum : 234451706036 Filename : 313_036 Injected : 09-NOV-2004 07:12
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :
Standards: 04WS1632

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	7979.0	9631.3	20.00000	24.14149	pg	**21**	15	c+ rsd ***
gamma-BHC	A	7843.4	9430.1	20.00000	24.04601	pg	**20**	15	c+ ***
beta-BHC	A	4899.0	5260.8	20.00000	21.47696	pg	7	15	
delta-BHC	A	8293.4	9136.1	20.00000	22.03236	pg	10	15	
Heptachlor	A	7487.9	8557.9	20.00000	22.85789	pg	14	15	
Aldrin	A	7158.2	8388.7	20.00000	23.43807	pg	**17**	15	c+ ***
Heptachlor epoxide	A	7663.7	8840.2	20.00000	23.07013	pg	15	15	
gamma-Chlordane	A	8021.1	9174.9	20.00000	22.87705	pg	14	15	
alpha-Chlordane	A	8009.6	9197.3	20.00000	22.96560	pg	15	15	
4,4'-DDE	A	7169.0	8691.0	40.00000	48.49207	pg	**21**	15	c+ ***
Endosulfan I	A	7216.7	8273.8	20.00000	22.92986	pg	15	15	
Dieldrin	A	7299.6	8618.2	40.00000	47.22546	pg	**18**	15	c+ ***
Endrin	A	6481.9	7561.8	40.00000	46.66426	pg	**17**	15	c+ ***
4,4'-DDD	A	5691.7	6574.6	40.00000	46.20499	pg	**16**	15	c+ ***
Endosulfan II	A	7078.8	7939.9	40.00000	44.86543	pg	12	15	
4,4'-DDT	A	5316.9	6162.6	40.00000	46.36205	pg	**16**	15	c+ ***
Methoxychlor	A	2778.5	2793.5	200.0000	201.0746	pg	1	15	
Endosulfan sulfate	A	6762.1	7161.7	40.00000	42.36403	pg	6	15	
Endrin ketone	A	7568.1	8119.7	40.00000	42.91551	pg	7	15	
TCMX	A	7232.1	8302.3	40.00000	45.91911	pg	15	15	
Decachlorobiphenyl	A	8258.9	7898.3	40.00000	38.25364	pg	-4	15	
alpha-BHC	B	39455	44384	20.00000	22.49823	pg	12	15	
gamma-BHC	B	36068	40777	20.00000	22.61102	pg	13	15	
beta-BHC	B	20609	20639	20.00000	20.02880	pg	0	15	rsd ***
delta-BHC	B	40327	40891	20.00000	20.27992	pg	1	15	
Heptachlor	B	24752	27947	20.00000	22.58179	pg	13	15	
Aldrin	B	33444	37220	20.00000	22.25815	pg	11	15	
Heptachlor epoxide	B	30710	33312	20.00000	21.69425	pg	8	15	
gamma-Chlordane	B	33862	36983	20.00000	21.84346	pg	9	15	
alpha-Chlordane	B	33070	35654	20.00000	21.56301	pg	8	15	
4,4'-DDE	B	29911	32454	40.00000	43.40079	pg	9	15	
Endosulfan I	B	29530	31634	20.00000	21.42487	pg	7	15	
Dieldrin	B	29633	31768	40.00000	42.88179	pg	7	15	
Endrin	B	25174	27284	40.00000	43.35273	pg	8	15	
4,4'-DDD	B	22737	23931	40.00000	42.10117	pg	5	15	
Endosulfan II	B	27406	27392	40.00000	39.97953	pg	0	15	
4,4'-DDT	B	17382	19090	40.00000	43.93106	pg	10	15	
Methoxychlor	B	7476.3	7491.8	200.0000	200.4143	pg	0	15	
Endosulfan sulfate	B	25780	24323	40.00000	37.73871	pg	-6	15	
Endrin ketone	B	26458	25835	40.00000	39.05805	pg	-2	15	
TCMX	B	28729	28903	40.00000	40.24259	pg	1	15	
Decachlorobiphenyl	B	22109	19870	40.00000	35.94868	pg	-10	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234443043 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
006	307_006	PEM				02-NOV-2004 16:03	1.0						1	
007	307_007	CCV	pest_4			02-NOV-2004 16:34	1.0						2	
008	307_008	X	ccv			02-NOV-2004 17:05	1.0						2	
009	307_009	X	ccv			02-NOV-2004 17:36	1.0						2	
010	307_010	X	primer			02-NOV-2004 18:42	1.0							
017	307_017	PEM				02-NOV-2004 22:17	1.0			1			1	
018	307_018	X	hex			02-NOV-2004 22:48	1.0							
019	307_019	X	hex			02-NOV-2004 23:18	1.0							
020	307_020	ICAL	pest_1			02-NOV-2004 23:49	1.0						3	
021	307_021	ICAL	pest_2			03-NOV-2004 00:19	1.0						4	
022	307_022	ICAL	pest_3			03-NOV-2004 00:50	1.0						5	
023	307_023	ICAL	pest_4			03-NOV-2004 01:21	1.0						2	
024	307_024	ICAL	pest_5			03-NOV-2004 01:52	1.0						6	
025	307_025	ICAL	pest_6			03-NOV-2004 02:22	1.0						7	
026	307_026	ICAL	pest_7			03-NOV-2004 02:54	1.0						8	
028	307_028	X	icv			03-NOV-2004 03:55	1.0						9	
029	307_029	X				03-NOV-2004 04:25	1.0						9	
034	307_034	X				03-NOV-2004 14:33	1.0						10	
035	307_035	ICV	icv			03-NOV-2004 15:12	1.0	2		1			10	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1628 4=04WS1629 5=04WS1630 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584 10=04WS2099

SEQUENCE SUMMARY FOR 175836 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234451706 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 08-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
009	313_009	PEM				08-NOV-2004 16:26	1.0	1.0			1	1	
010	313_010	X	pest_4			08-NOV-2004 16:57	1.0					2	
011	313_011	CCV	ccv			08-NOV-2004 17:27	1.0	1.0	2		1	2	
012	313_012	X	ccv			08-NOV-2004 19:00	1.0					2	
014	313_014	BLANK	QC271182	96215	Soil	08-NOV-2004 20:01	1.0	0.6618	1		1		
015	313_015	LCS	QC271183	96215	Soil	08-NOV-2004 20:31	1.0	0.6605	3		1		
016	313_016	MSS	175836-002	96215	Soil	08-NOV-2004 21:02	1.0	0.6671	1	2	1		
018	313_018	PEM				08-NOV-2004 22:03	1.0	1.0			1	1	
019	313_019	X	pest_5			08-NOV-2004 22:33	1.0					3	
020	313_020	X	ccv			08-NOV-2004 23:04	1.0					3	
021	313_021	CCV	ccv			08-NOV-2004 23:34	1.0	1.0	3		1	4	
022	313_022	X	pem			09-NOV-2004 00:05	1.0					1	
024	313_024	SAMPLE	175836-001	96215	Soil	09-NOV-2004 01:06	1.0	0.6662	1	2	1		
025	313_025	SAMPLE	175836-003	96215	Soil	09-NOV-2004 01:36	1.0	0.6658	1		1		
026	313_026	SAMPLE	175836-004	96215	Soil	09-NOV-2004 02:07	2.0	0.6623	1		1		
027	313_027	SAMPLE	175836-005	96215	Soil	09-NOV-2004 02:37	1.0	0.6725	1		1		
028	313_028	SAMPLE	175836-006	96215	Soil	09-NOV-2004 03:08	1.0	0.672	1		1		
029	313_029	SAMPLE	175836-007	96215	Soil	09-NOV-2004 03:38	1.0	0.6596	1	2	1		
030	313_030	SAMPLE	175836-008	96215	Soil	09-NOV-2004 04:09	1.0	0.6707	1		1		
031	313_031	SAMPLE	175836-009	96215	Soil	09-NOV-2004 04:39	1.0	0.6684	1		1		
032	313_032	MS	QC271184	96215	Soil	09-NOV-2004 05:10	1.0	0.6653	10		1		
033	313_033	MSD	QC271185	96215	Soil	09-NOV-2004 05:40	1.0	0.6667	10	1	1		
035	313_035	PEM				09-NOV-2004 06:41	1.0	1.0			1	1	
036	313_036	CCV	pest_4			09-NOV-2004 07:12	1.0	1.0	9		1	2	
037	313_037	X	ccv			09-NOV-2004 07:42	1.0					2	
038	313_038	X	pem			09-NOV-2004 08:13	1.0					1	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1633 4=04WS1630

Reporting Summary for 175836 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175836-001	alpha-BHC	GC16	B	11/09/04 01:06
175836-001	beta-BHC	GC16	A	11/09/04 01:06
175836-001	gamma-BHC	GC16	B	11/09/04 01:06
175836-001	delta-BHC	GC16	B	11/09/04 01:06
175836-001	Heptachlor	GC16	B	11/09/04 01:06
175836-001	Aldrin	GC16	B	11/09/04 01:06
175836-001	Heptachlor epoxide	GC16	B	11/09/04 01:06
175836-001	Endosulfan I	GC16	B	11/09/04 01:06
175836-001	Dieldrin	GC16	B	11/09/04 01:06
175836-001	4,4'-DDE	GC16	B	11/09/04 01:06
175836-001	Endrin	GC16	B	11/09/04 01:06
175836-001	Endosulfan II	GC16	B	11/09/04 01:06
175836-001	Endosulfan sulfate	GC16	B	11/09/04 01:06
175836-001	4,4'-DDD	GC16	B	11/09/04 01:06
175836-001	Endrin ketone	GC16	B	11/09/04 01:06
175836-001	4,4'-DDT	GC16	B	11/09/04 01:06
175836-001	Chlordane (Technical)	GC16	B	11/09/04 01:06
175836-001	alpha-Chlordane	GC16	B	11/09/04 01:06
175836-001	gamma-Chlordane	GC16	B	11/09/04 01:06
175836-001	Methoxychlor	GC16	B	11/09/04 01:06
175836-001	Toxaphene	GC16	B	11/09/04 01:06
175836-001	TCMX	GC16	B	11/09/04 01:06
175836-001	Decachlorobiphenyl	GC16	B	11/09/04 01:06
175836-002	alpha-BHC	GC16	B	11/08/04 21:02
175836-002	beta-BHC	GC16	A	11/08/04 21:02
175836-002	gamma-BHC	GC16	B	11/08/04 21:02
175836-002	delta-BHC	GC16	B	11/08/04 21:02
175836-002	Heptachlor	GC16	B	11/08/04 21:02
175836-002	Aldrin	GC16	B	11/08/04 21:02
175836-002	Heptachlor epoxide	GC16	B	11/08/04 21:02
175836-002	Endosulfan I	GC16	B	11/08/04 21:02
175836-002	Dieldrin	GC16	B	11/08/04 21:02
175836-002	4,4'-DDE	GC16	B	11/08/04 21:02
175836-002	Endrin	GC16	B	11/08/04 21:02
175836-002	Endosulfan II	GC16	B	11/08/04 21:02
175836-002	Endosulfan sulfate	GC16	B	11/08/04 21:02
175836-002	4,4'-DDD	GC16	B	11/08/04 21:02
175836-002	Endrin ketone	GC16	B	11/08/04 21:02
175836-002	4,4'-DDT	GC16	B	11/08/04 21:02
175836-002	Chlordane (Technical)	GC16	B	11/08/04 21:02
175836-002	alpha-Chlordane	GC16	B	11/08/04 21:02
175836-002	gamma-Chlordane	GC16	B	11/08/04 21:02
175836-002	Methoxychlor	GC16	B	11/08/04 21:02
175836-002	Toxaphene	GC16	B	11/08/04 21:02
175836-002	TCMX	GC16	B	11/08/04 21:02
175836-002	Decachlorobiphenyl	GC16	B	11/08/04 21:02
175836-003	alpha-BHC	GC16	B	11/09/04 01:36
175836-003	beta-BHC	GC16	A	11/09/04 01:36
175836-003	gamma-BHC	GC16	B	11/09/04 01:36
175836-003	delta-BHC	GC16	B	11/09/04 01:36
175836-003	Heptachlor	GC16	B	11/09/04 01:36
175836-003	Aldrin	GC16	B	11/09/04 01:36

Reporting Summary for 175836 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175836-003	Heptachlor epoxide	GC16	B	11/09/04 01:36
175836-003	Endosulfan I	GC16	B	11/09/04 01:36
175836-003	Dieldrin	GC16	B	11/09/04 01:36
175836-003	4,4'-DDE	GC16	B	11/09/04 01:36
175836-003	Endrin	GC16	B	11/09/04 01:36
175836-003	Endosulfan II	GC16	B	11/09/04 01:36
175836-003	Endosulfan sulfate	GC16	B	11/09/04 01:36
175836-003	4,4'-DDD	GC16	B	11/09/04 01:36
175836-003	Endrin ketone	GC16	B	11/09/04 01:36
175836-003	4,4'-DDT	GC16	B	11/09/04 01:36
175836-003	Chlordane (Technical)	GC16	B	11/09/04 01:36
175836-003	alpha-Chlordane	GC16	B	11/09/04 01:36
175836-003	gamma-Chlordane	GC16	B	11/09/04 01:36
175836-003	Methoxychlor	GC16	B	11/09/04 01:36
175836-003	Toxaphene	GC16	B	11/09/04 01:36
175836-003	TCMX	GC16	B	11/09/04 01:36
175836-003	Decachlorobiphenyl	GC16	B	11/09/04 01:36
175836-004	alpha-BHC	GC16	B	11/09/04 02:07
175836-004	beta-BHC	GC16	A	11/09/04 02:07
175836-004	gamma-BHC	GC16	B	11/09/04 02:07
175836-004	delta-BHC	GC16	B	11/09/04 02:07
175836-004	Heptachlor	GC16	B	11/09/04 02:07
175836-004	Aldrin	GC16	B	11/09/04 02:07
175836-004	Heptachlor epoxide	GC16	B	11/09/04 02:07
175836-004	Endosulfan I	GC16	B	11/09/04 02:07
175836-004	Dieldrin	GC16	B	11/09/04 02:07
175836-004	4,4'-DDE	GC16	B	11/09/04 02:07
175836-004	Endrin	GC16	B	11/09/04 02:07
175836-004	Endosulfan II	GC16	B	11/09/04 02:07
175836-004	Endosulfan sulfate	GC16	B	11/09/04 02:07
175836-004	4,4'-DDD	GC16	B	11/09/04 02:07
175836-004	Endrin ketone	GC16	B	11/09/04 02:07
175836-004	4,4'-DDT	GC16	B	11/09/04 02:07
175836-004	Chlordane (Technical)	GC16	B	11/09/04 02:07
175836-004	alpha-Chlordane	GC16	B	11/09/04 02:07
175836-004	gamma-Chlordane	GC16	B	11/09/04 02:07
175836-004	Methoxychlor	GC16	B	11/09/04 02:07
175836-004	Toxaphene	GC16	B	11/09/04 02:07
175836-004	TCMX	GC16	B	11/09/04 02:07
175836-004	Decachlorobiphenyl	GC16	B	11/09/04 02:07
175836-005	alpha-BHC	GC16	B	11/09/04 02:37
175836-005	beta-BHC	GC16	A	11/09/04 02:37
175836-005	gamma-BHC	GC16	B	11/09/04 02:37
175836-005	delta-BHC	GC16	B	11/09/04 02:37
175836-005	Heptachlor	GC16	B	11/09/04 02:37
175836-005	Aldrin	GC16	B	11/09/04 02:37
175836-005	Heptachlor epoxide	GC16	B	11/09/04 02:37
175836-005	Endosulfan I	GC16	B	11/09/04 02:37
175836-005	Dieldrin	GC16	B	11/09/04 02:37
175836-005	4,4'-DDE	GC16	B	11/09/04 02:37
175836-005	Endrin	GC16	B	11/09/04 02:37
175836-005	Endosulfan II	GC16	B	11/09/04 02:37

Reporting Summary for 175836 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175836-005	Endosulfan sulfate	GC16	B	11/09/04 02:37
175836-005	4,4'-DDD	GC16	B	11/09/04 02:37
175836-005	Endrin ketone	GC16	B	11/09/04 02:37
175836-005	4,4'-DDT	GC16	B	11/09/04 02:37
175836-005	Chlordane (Technical)	GC16	B	11/09/04 02:37
175836-005	alpha-Chlordane	GC16	B	11/09/04 02:37
175836-005	gamma-Chlordane	GC16	B	11/09/04 02:37
175836-005	Methoxychlor	GC16	B	11/09/04 02:37
175836-005	Toxaphene	GC16	B	11/09/04 02:37
175836-005	TCMX	GC16	B	11/09/04 02:37
175836-005	Decachlorobiphenyl	GC16	B	11/09/04 02:37
175836-006	alpha-BHC	GC16	B	11/09/04 03:08
175836-006	beta-BHC	GC16	A	11/09/04 03:08
175836-006	gamma-BHC	GC16	B	11/09/04 03:08
175836-006	delta-BHC	GC16	B	11/09/04 03:08
175836-006	Heptachlor	GC16	B	11/09/04 03:08
175836-006	Aldrin	GC16	B	11/09/04 03:08
175836-006	Heptachlor epoxide	GC16	B	11/09/04 03:08
175836-006	Endosulfan I	GC16	B	11/09/04 03:08
175836-006	Dieldrin	GC16	B	11/09/04 03:08
175836-006	4,4'-DDE	GC16	B	11/09/04 03:08
175836-006	Endrin	GC16	B	11/09/04 03:08
175836-006	Endosulfan II	GC16	B	11/09/04 03:08
175836-006	Endosulfan sulfate	GC16	B	11/09/04 03:08
175836-006	4,4'-DDD	GC16	B	11/09/04 03:08
175836-006	Endrin ketone	GC16	B	11/09/04 03:08
175836-006	4,4'-DDT	GC16	B	11/09/04 03:08
175836-006	Chlordane (Technical)	GC16	B	11/09/04 03:08
175836-006	alpha-Chlordane	GC16	B	11/09/04 03:08
175836-006	gamma-Chlordane	GC16	B	11/09/04 03:08
175836-006	Methoxychlor	GC16	B	11/09/04 03:08
175836-006	Toxaphene	GC16	B	11/09/04 03:08
175836-006	TCMX	GC16	B	11/09/04 03:08
175836-006	Decachlorobiphenyl	GC16	B	11/09/04 03:08
175836-007	alpha-BHC	GC16	B	11/09/04 03:38
175836-007	beta-BHC	GC16	A	11/09/04 03:38
175836-007	gamma-BHC	GC16	B	11/09/04 03:38
175836-007	delta-BHC	GC16	B	11/09/04 03:38
175836-007	Heptachlor	GC16	B	11/09/04 03:38
175836-007	Aldrin	GC16	B	11/09/04 03:38
175836-007	Heptachlor epoxide	GC16	B	11/09/04 03:38
175836-007	Endosulfan I	GC16	B	11/09/04 03:38
175836-007	Dieldrin	GC16	B	11/09/04 03:38
175836-007	4,4'-DDE	GC16	B	11/09/04 03:38
175836-007	Endrin	GC16	B	11/09/04 03:38
175836-007	Endosulfan II	GC16	B	11/09/04 03:38
175836-007	Endosulfan sulfate	GC16	B	11/09/04 03:38
175836-007	4,4'-DDD	GC16	B	11/09/04 03:38
175836-007	Endrin ketone	GC16	B	11/09/04 03:38
175836-007	4,4'-DDT	GC16	B	11/09/04 03:38
175836-007	Chlordane (Technical)	GC16	B	11/09/04 03:38
175836-007	alpha-Chlordane	GC16	B	11/09/04 03:38

Reporting Summary for 175836 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175836-007	gamma-Chlordane	GC16	B	11/09/04 03:38
175836-007	Methoxychlor	GC16	B	11/09/04 03:38
175836-007	Toxaphene	GC16	B	11/09/04 03:38
175836-007	TCMX	GC16	B	11/09/04 03:38
175836-007	Decachlorobiphenyl	GC16	B	11/09/04 03:38
175836-008	alpha-BHC	GC16	B	11/09/04 04:09
175836-008	beta-BHC	GC16	A	11/09/04 04:09
175836-008	gamma-BHC	GC16	B	11/09/04 04:09
175836-008	delta-BHC	GC16	B	11/09/04 04:09
175836-008	Heptachlor	GC16	B	11/09/04 04:09
175836-008	Aldrin	GC16	B	11/09/04 04:09
175836-008	Heptachlor epoxide	GC16	B	11/09/04 04:09
175836-008	Endosulfan I	GC16	B	11/09/04 04:09
175836-008	Dieldrin	GC16	B	11/09/04 04:09
175836-008	4,4'-DDE	GC16	B	11/09/04 04:09
175836-008	Endrin	GC16	B	11/09/04 04:09
175836-008	Endosulfan II	GC16	B	11/09/04 04:09
175836-008	Endosulfan sulfate	GC16	B	11/09/04 04:09
175836-008	4,4'-DDD	GC16	B	11/09/04 04:09
175836-008	Endrin ketone	GC16	B	11/09/04 04:09
175836-008	4,4'-DDT	GC16	B	11/09/04 04:09
175836-008	Chlordane (Technical)	GC16	B	11/09/04 04:09
175836-008	alpha-Chlordane	GC16	B	11/09/04 04:09
175836-008	gamma-Chlordane	GC16	B	11/09/04 04:09
175836-008	Methoxychlor	GC16	B	11/09/04 04:09
175836-008	Toxaphene	GC16	B	11/09/04 04:09
175836-008	TCMX	GC16	B	11/09/04 04:09
175836-008	Decachlorobiphenyl	GC16	B	11/09/04 04:09
175836-009	alpha-BHC	GC16	B	11/09/04 04:39
175836-009	beta-BHC	GC16	A	11/09/04 04:39
175836-009	gamma-BHC	GC16	B	11/09/04 04:39
175836-009	delta-BHC	GC16	B	11/09/04 04:39
175836-009	Heptachlor	GC16	B	11/09/04 04:39
175836-009	Aldrin	GC16	B	11/09/04 04:39
175836-009	Heptachlor epoxide	GC16	B	11/09/04 04:39
175836-009	Endosulfan I	GC16	B	11/09/04 04:39
175836-009	Dieldrin	GC16	B	11/09/04 04:39
175836-009	4,4'-DDE	GC16	B	11/09/04 04:39
175836-009	Endrin	GC16	B	11/09/04 04:39
175836-009	Endosulfan II	GC16	B	11/09/04 04:39
175836-009	Endosulfan sulfate	GC16	B	11/09/04 04:39
175836-009	4,4'-DDD	GC16	B	11/09/04 04:39
175836-009	Endrin ketone	GC16	B	11/09/04 04:39
175836-009	4,4'-DDT	GC16	B	11/09/04 04:39
175836-009	Chlordane (Technical)	GC16	B	11/09/04 04:39
175836-009	alpha-Chlordane	GC16	B	11/09/04 04:39
175836-009	gamma-Chlordane	GC16	B	11/09/04 04:39
175836-009	Methoxychlor	GC16	B	11/09/04 04:39
175836-009	Toxaphene	GC16	B	11/09/04 04:39
175836-009	TCMX	GC16	B	11/09/04 04:39
175836-009	Decachlorobiphenyl	GC16	B	11/09/04 04:39

Reporting Summary for 175836 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC271182	alpha-BHC	GC16	B	11/08/04 20:01
QC271182	beta-BHC	GC16	A	11/08/04 20:01
QC271182	gamma-BHC	GC16	B	11/08/04 20:01
QC271182	delta-BHC	GC16	B	11/08/04 20:01
QC271182	Heptachlor	GC16	B	11/08/04 20:01
QC271182	Aldrin	GC16	B	11/08/04 20:01
QC271182	Heptachlor epoxide	GC16	B	11/08/04 20:01
QC271182	Endosulfan I	GC16	B	11/08/04 20:01
QC271182	Dieldrin	GC16	B	11/08/04 20:01
QC271182	4,4'-DDE	GC16	B	11/08/04 20:01
QC271182	Endrin	GC16	B	11/08/04 20:01
QC271182	Endosulfan II	GC16	B	11/08/04 20:01
QC271182	Endosulfan sulfate	GC16	B	11/08/04 20:01
QC271182	4,4'-DDD	GC16	B	11/08/04 20:01
QC271182	Endrin ketone	GC16	B	11/08/04 20:01
QC271182	4,4'-DDT	GC16	B	11/08/04 20:01
QC271182	Chlordane (Technical)	GC16	B	11/08/04 20:01
QC271182	alpha-Chlordane	GC16	B	11/08/04 20:01
QC271182	gamma-Chlordane	GC16	B	11/08/04 20:01
QC271182	Methoxychlor	GC16	B	11/08/04 20:01
QC271182	Toxaphene	GC16	B	11/08/04 20:01
QC271182	TCMX	GC16	B	11/08/04 20:01
QC271182	Decachlorobiphenyl	GC16	B	11/08/04 20:01
QC271183	gamma-BHC	GC16	B	11/08/04 20:31
QC271183	Heptachlor	GC16	B	11/08/04 20:31
QC271183	Aldrin	GC16	B	11/08/04 20:31
QC271183	Dieldrin	GC16	B	11/08/04 20:31
QC271183	Endrin	GC16	B	11/08/04 20:31
QC271183	4,4'-DDT	GC16	B	11/08/04 20:31
QC271183	TCMX	GC16	B	11/08/04 20:31
QC271183	Decachlorobiphenyl	GC16	B	11/08/04 20:31
QC271184	gamma-BHC	GC16	B	11/09/04 05:10
QC271184	Heptachlor	GC16	B	11/09/04 05:10
QC271184	Aldrin	GC16	B	11/09/04 05:10
QC271184	Dieldrin	GC16	B	11/09/04 05:10
QC271184	Endrin	GC16	B	11/09/04 05:10
QC271184	4,4'-DDT	GC16	B	11/09/04 05:10
QC271184	TCMX	GC16	B	11/09/04 05:10
QC271184	Decachlorobiphenyl	GC16	B	11/09/04 05:10
QC271185	gamma-BHC	GC16	B	11/09/04 05:40
QC271185	Heptachlor	GC16	B	11/09/04 05:40
QC271185	Aldrin	GC16	B	11/09/04 05:40
QC271185	Dieldrin	GC16	B	11/09/04 05:40
QC271185	Endrin	GC16	B	11/09/04 05:40
QC271185	4,4'-DDT	GC16	B	11/09/04 05:40
QC271185	TCMX	GC16	B	11/09/04 05:40
QC271185	Decachlorobiphenyl	GC16	B	11/09/04 05:40

Curtis & Tompkins Laboratories Sample Preparation Summary 07-NOV-2004 00:04

Batch Number : 96215
Date Extracted: 06-NOV-2004
Extracted by : Kevin Riley
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1994A
Spike #2 ID : 04WS1551B
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175729-005			LFR Levine Fricke	Soil	14.97	g	10	0.668003	1		.01	0		8081	3620B	
175729-068			LFR Levine Fricke	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
175729-069			LFR Levine Fricke	Soil	14.94	g	10	0.669344	1		.01	0		8081	3620B	
175729-070			LFR Levine Fricke	Soil	14.95	g	10	0.668896	1		.01	0		8081	3620B	
175729-071			LFR Levine Fricke	Soil	15.13	g	10	0.660939	1		.01	0		8081	3620B	
175729-072			LFR Levine Fricke	Soil	15.01	g	10	0.666223	1		.01	0		8081	3620B	
175729-073			LFR Levine Fricke	Soil	15.12	g	10	0.661376	1		.01	0		8081	3620B	
175729-074			LFR Levine Fricke	Soil	15.04	g	10	0.664894	1		.01	0		8081	3620B	
175729-075			LFR Levine Fricke	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
175729-076			LFR Levine Fricke	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
175729-077			LFR Levine Fricke	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
175836-001			Treadwell & Rollo	Soil	15.01	g	10	0.666223	1		.01	0		8081	3620B	
175836-002			Treadwell & Rollo	Soil	14.99	g	10	0.667111	1		.01	0		8081	3620B	mss
175836-003			Treadwell & Rollo	Soil	15.02	g	10	0.665779	1		.01	0		8081	3620B	
175836-004			Treadwell & Rollo	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
175836-005			Treadwell & Rollo	Soil	14.87	g	10	0.672495	1		.01	0		8081	3620B	
175836-006			Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.01	0		8081	3620B	
175836-007			Treadwell & Rollo	Soil	15.16	g	10	0.659631	1		.01	0		8081	3620B	
175836-008			Treadwell & Rollo	Soil	14.91	g	10	0.670691	1		.01	0		8081	3620B	
175836-009			Treadwell & Rollo	Soil	14.96	g	10	0.668449	1		.01	0		8081	3620B	
QC271182	MB			Soil	15.11	g	10	0.661813	1		.01	0		8081	3620B	
QC271183	LCS			Soil	15.14	g	10	0.660502	1		.01	.5		8081	3620B	
QC271184	MS	of 175836-002		Soil	15.03	g	10	0.665336	1		.01	.5		8081	3620B	
QC271185	MSD	of 175836-002		Soil	15	g	10	0.666667	1		.01	.5		8081	3620B	

Prep Chemist: Kevin Riley Reviewed By: Jennifer Dell Date: 11/7/04

Relinquished By: Kevin Riley Received By: [illegible] Date: 11/9/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 96215
LIMS Analysis: 8081
Extracted by: KR
Date Extracted: 6-Nov-04

Extraction Method:
☐ EPA 3550b Sonication
☑ EPA 3545 PFE (Mth# 10)
☐ EPA 3540c Soxhlet
☐ _____

Cleanup Method:
☐ EPA 3640a GPC
☑ EPA 3620b Florisil
☐ _____

	Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
	MB QC271182	15.11	10.0	X	
	LCS 83	15.14	↓	X	
	MS 84	15.03	↓	X	
	MSD 85	15.00	↓	X	
5	175729-005:A	14.97	↓	X	
	68: comp	15.10	↓	X	
	69	14.94	↓	X	
	70	14.95	↓	X	
	71	15.13	↓	X	
10	72	15.01	↓	X	
	73	15.12	↓	X	
	74	15.04	↓	X	
	75	15.10	↓	X	
	76	15.10	↓	X	
15	77	15.18	↓	X	
	175836-001:A	15.01	↓	X	
	2	14.99	↓	X	MSS
	3	15.02	↓	X	
	4	15.10	↓	X	
20	5	14.87	↓	X	
	6	14.88	↓	X	
	7	15.16	↓	X	
	8	14.91	↓	X	
	9	14.96	↓	X	
			KR 11/6/04		

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM94028421	KR 11/6/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	DIONEX 040112	↓
0.01 mL of surrogate solution was added to all samples	04WS1994A	↓
0.5 mL of spike solution was added to all spikes	04WS1551B	↓
1:1 CH_2Cl_2 (lot# EM94244):Acetone(lot# EM94233) was added to all	✓	↓
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	↓
ASE Cellulose Filters used:	Whatman 1821 906048	↓
Soxhlets on at:	NA	↓
Soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	NA	KR 11/6/04
Exchanged 2x with Hexane	R&T CM222	↓
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	↓

6-Nov-04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

11/7/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: KR
Cleanup Date: 6-NOV-04

Benchbook # **BK 1991**
Page 62

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC 271182	96215	1.0	1.0	
LCS 83				
MS 84				
MSD 85				
175729-005				leaky microsyringe
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
175836-001				
2				MSS
3				
4				
5				
6				
7				
8				
9				

KR 11/6/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	RESPREP 303721-AZ	KR 11/6/04
Florisil cartridges/ columns rinsed 3x with Hexane	B&J CM222	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane		
Acetone	EM44211	
Concentrated to volumes as noted above	✓	

Kr Rly 6-NOV-04
Extraction Chemist / Date

Continued from page —
Continued on page —

Jennifer Ollet 11/7/04
Reviewed by / Date

72
PROJECT Soil Aliquot

Notebook No. BK2015
Continued From Page —

Sample ID	Weight (g)	Analysis	Comments
175720-008	49.94	TEHM	
-009	50.20		
-010	50.33		
-011	50.01		
-012	50.17		
-013	50.43		
-016	50.03		
-019	50.39		
-021	50.02		
-022	MC 11/3 ~~49.93~~ 50.02		
-023	50.20		
-024	49.93		MSS
-025	50.24		
-026	50.23		
-027	50.08		
-028	50.14		
MS	50.05		175720-024A
MSD	49.96		↓
LCS	50.45		EM44028421
MB	50.38		↓
175729-005A	14.97	8081	MSS NAIL INSAMP.
-068	15.10		2, COMP 1A+2A
-069	14.94		2, 3A+4A
-070	14.95		2, 6A+7A
-071	15.13		3, 8A,9A,10A
-072	15.01		3, 11A,12A,13A
-073	15.12		3, 14A,15A,16A
-074	15.04		2, 17A+18A
-075	15.16		2, 19A+20A
-076	15.10		3, 21A,22A,23A
-077	15.18		2, 24A+25A
~~MS~~	~~14.96~~	~~MC 11/3 "E"-OUT MISTAKE~~	~~175729-005A~~ MC 11/3
MSD	15.11		↓
LCS	~~15.14~~		Cont. EM44028421
MB	15.11		↓

Read and Understood By

Michelle Cantu — Signed
11/3/04 — Date
Signed — Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175836-001A	15.01	8081	
-002	15.16		
-003	15.02		
-004	15.10		
-005	14.87		
-006	14.88		
-007	15.16		
-008	14.91		
-009	14.96		

Continued on Page

Read and Understood By

Michelle Curtis 11/5/04

Signed Date Signed Date

PROJECT SOIL ALIQUOT

Continued From Page

Sample ID	Weight (g)	Analysis	Comments
175836-002:A	14.99	8081	MSS
MS	15.03	↓	
MSD	15.00	↓	

KR 6-NOV-04

Continued on Page

Read and Understood By

K Rey 6-Nov-04

Signature Date Signature Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14 A	GC14 B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin Aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/04
Units:	ug/Kg	Received:	11/05/04
Diln Fac:	1.000	Prepared:	11/05/04
Batch#:	96179		

Field ID:	BB3EX137[0.5]	Moisture:	3%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.9
Aroclor-1221	ND	20
Aroclor-1232	ND	9.9
Aroclor-1242	ND	9.9
Aroclor-1248	ND	9.9
Aroclor-1254	ND	9.9
Aroclor-1260	ND	9.9

Surrogate	%REC	Limits
TCMX	106	65-135
Decachlorobiphenyl	107	65-135

Field ID:	BB3EX138[0.5]	Moisture:	8%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-002	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	93	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/04
Units:	ug/Kg	Received:	11/05/04
Diln Fac:	1.000	Prepared:	11/05/04
Batch#:	96179		

Field ID:	BB3EX143[0.5]	Moisture:	8%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-003	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	102	65-135

Field ID:	DUP110504A	Moisture:	9%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-004	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	21
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	ND	11
Aroclor-1254	ND	11
Aroclor-1260	ND	11

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	80	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/04
Units:	ug/Kg	Received:	11/05/04
Diln Fac:	1.000	Prepared:	11/05/04
Batch#:	96179		

Field ID:	BB3EX140[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	103	65-135
Decachlorobiphenyl	116	65-135

Field ID:	BB3EX141[2.5]	Moisture:	9%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	21
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	ND	11
Aroclor-1254	ND	11
Aroclor-1260	ND	11

Surrogate	%REC	Limits
TCMX	108	65-135
Decachlorobiphenyl	103	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/04
Units:	ug/Kg	Received:	11/05/04
Diln Fac:	1.000	Prepared:	11/05/04
Batch#:	96179		

Field ID:	BB3EX141[5.5]	Moisture:	7%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-007	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	113	65-135
Decachlorobiphenyl	101	65-135

Field ID:	BB3EX142[0.5]	Moisture:	3%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-008	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.8
Aroclor-1221	ND	20
Aroclor-1232	ND	9.8
Aroclor-1242	ND	9.8
Aroclor-1248	ND	9.8
Aroclor-1254	ND	9.8
Aroclor-1260	ND	9.8

Surrogate	%REC	Limits
TCMX	113	65-135
Decachlorobiphenyl	102	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/05/04
Units:	ug/Kg	Received:	11/05/04
Diln Fac:	1.000	Prepared:	11/05/04
Batch#:	96179		

Field ID:	BB3EX144[0.5]	Moisture:	2%
Type:	SAMPLE	Analyzed:	11/09/04
Lab ID:	175836-009	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	ND	9.7
Aroclor-1260	ND	9.7

Surrogate	%REC	Limits
TCMX	87	65-135
Decachlorobiphenyl	77	65-135

Type:	BLANK	Analyzed:	11/05/04
Lab ID:	QC271029	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	ND	9.6
Aroclor-1260	ND	9.6

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	59 *	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC271030	Batch#:	96179
Matrix:	Soil	Prepared:	11/05/04
Units:	ug/Kg	Analyzed:	11/05/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	165.5	151.1	91	65-135

Surrogate	%REC	Limits
TCMX	85	65-135
Decachlorobiphenyl	68	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	96179
MSS Lab ID:	175627-011	Sampled:	10/28/04
Matrix:	Soil	Received:	10/28/04
Units:	ug/Kg	Prepared:	11/05/04
Basis:	as received	Analyzed:	11/06/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC271031

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<3.900	164.1	172.9	105	65-135

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	79	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC271032

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	164.6	168.0	102	65-135	3	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	78	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: CW
Calnum: 254423080001 Name: Type: (normal) Date: 19-OCT-2004 19:20 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	294_010	254423080010	pcb10_2	19-OCT-2004 19:20	04WS1786
2	294_011	254423080011	pcb25_5	19-OCT-2004 19:48	04WS1787
3	294_012	254423080012	pcb100_20	19-OCT-2004 20:15	04WS1788
4	294_013	254423080013	pcb250_50	19-OCT-2004 20:43	04WS1789
5	294_014	254423080014	pcb500_100	19-OCT-2004 21:11	04WS1790
6	294_015	254423080015	pcb750_150	19-OCT-2004 21:38	04WS1791
7	294_016	254423080016	cb1k_200	19-OCT-2004 22:06	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	117.70	107.08	118.61	104.35	100.63	91.269	90.822	AVRG	R		0.009583		pg	104.35	11	.99	20	
Aroclor-1016 Peak # 2	A	70.758	61.534	65.212	59.052	57.006	52.443	52.147	AVRG	R		0.016740		pg	59.736	11	.99	20	
Aroclor-1016 Peak # 3	A	43.027	38.414	39.999	35.870	34.806	31.990	31.529	AVRG	R		0.027383		pg	36.519	12	.99	20	
Aroclor-1016 Peak # 4	A	69.218	67.328	71.290	65.705	61.890	56.651	55.093	AVRG	R		0.015654		pg	63.882	10	.99	20	
Aroclor-1016 Peak # 5	A	41.062	39.746	40.496	38.045	37.440	33.776	34.034	AVRG	R		0.026455		pg	37.800	8	.99	20	
Aroclor-1260 Peak # 1	A	125.00	117.88	117.45	107.27	97.972	92.047	87.368	AVRG	R		0.009396		pg	106.43	14	.99	20	
Aroclor-1260 Peak # 2	A	177.80	176.83	177.62	162.50	147.36	139.21	131.81	AVRG	R		0.006288		pg	159.02	12	.99	20	
Aroclor-1260 Peak # 3	A	83.173	83.588	82.958	78.638	70.032	68.281	63.891	AVRG	R		0.013194		pg	75.794	11	.99	20	
Aroclor-1260 Peak # 4	A	82.318	94.810	96.369	90.193	80.778	77.832	73.756	AVRG	R		0.011744		pg	85.151	10	.99	20	
Aroclor-1260 Peak # 5	A	199.05	204.31	201.10	185.76	164.85	158.57	152.93	AVRG	R		0.005527		pg	180.94	12	.99	20	
TCMX	A	3585.0	3413.2	3485.1	3064.9	2961.4	2708.4	2847.1	AVRG	R		3.172E-4		pg	3152.1	11	.99	20	
Decachlorobiphenyl	A	1576.3	1681.8	1655.6	1488.8	1305.9	1253.0	1286.2	AVRG	R		6.831E-4		pg	1463.9	12	.99	20	
Aroclor-1016 Peak # 1	B	63.122	67.542	61.769	82.399	66.948	63.985	55.697	AVRG	R		0.015169		pg	65.923	13	.99	20	
Aroclor-1016 Peak # 2	B	96.098	87.480	86.721	94.678	83.405	77.616	68.726	AVRG	R		0.011770		pg	84.961	11	.99	20	
Aroclor-1016 Peak # 3	B	309.27	231.41	252.70	277.03	240.93	219.71	196.70	AVRG	R		0.004052		pg	246.82	15	.99	20	
Aroclor-1016 Peak # 4	B	84.673	61.378	71.134	79.989	70.054	63.790	57.803	AVRG	R		0.014320		pg	69.832	14	.99	20	
Aroclor-1016 Peak # 5	B	90.950	75.420	79.865	88.106	77.553	70.131	64.216	AVRG	R		0.012815		pg	78.034	12	.99	20	
Aroclor-1260 Peak # 1	B	154.92	122.68	133.01	140.85	119.66	104.05	98.696	AVRG	R		0.008010		pg	124.84	16	.99	20	
Aroclor-1260 Peak # 2	B	164.60	129.02	135.46	142.37	120.89	105.13	100.12	AVRG	R		0.007799		pg	128.23	17	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: CW
Calnum: 254423080001 Name: Type: (normal) Date: 19-OCT-2004 19:20 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	104.65	80.106	85.033	89.018	76.398	66.452	63.546	AVRG	R		0.012385		pg	80.743	17	.99	20	
Aroclor-1260 Peak # 4	B	122.61	91.020	94.240	98.876	83.987	73.568	72.026	AVRG	R		0.011001		pg	90.904	19	.99	20	
Aroclor-1260 Peak # 5	B	261.28	194.03	202.53	207.45	178.06	156.49	152.28	AVRG	R		0.005177		pg	193.16	19	.99	20	
TCMX	B	4788.3	4080.2	3863.3	4065.7	3633.0	3576.7	3141.2	AVRG	R		2.578E-4		pg	3878.3	13	.99	20	
Decachlorobiphenyl	B		1677.6	1671.1	1635.9	1359.9	1199.4	1222.0	AVRG	R		6.845E-4		pg	1461.0	16	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC22 Calname :
Calnum : 254423080001 Caldate : 19-OCT-2004 Caltype :

ICV 254423080019 (294_019) standards: 04WS1609

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	254423080019	19-OCT-2004	250.00	261.97	pg	5	15
Aroclor-1260	A	254423080019	19-OCT-2004	250.00	260.21	pg	4	15
TCMX	A	254423080019	19-OCT-2004	50.000	46.565	pg	-7	15
Decachlorobiphenyl	A	254423080019	19-OCT-2004	50.000	44.453	pg	-11	15
Aroclor-1016	B	254423080019	19-OCT-2004	250.00	259.08	pg	4	15
Aroclor-1260	B	254423080019	19-OCT-2004	250.00	248.15	pg	-1	15
TCMX	B	254423080019	19-OCT-2004	50.000	43.190	pg	-14	15
Decachlorobiphenyl	B	254423080019	19-OCT-2004	50.000	45.610	pg	-9	15

INITIAL CALIBRATION REPORT FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254427213001 Name: Type: (normal) Date: 22-OCT-2004 16:13 Inj Vol (uL): 1

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	296_002	254427213002	ar1254	22-OCT-2004 16:13	04WS1995

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	78.098	AVRG	R		0.012804		pg	78.098	0	.99	20	
Aroclor-1254 Peak # 2	A	135.89	AVRG	R		0.007359		pg	135.89	0	.99	20	
Aroclor-1254 Peak # 3	A	85.775	AVRG	R		0.011658		pg	85.775	0	.99	20	
Aroclor-1254 Peak # 4	A	142.79	AVRG	R		0.007003		pg	142.79	0	.99	20	
Aroclor-1254 Peak # 5	A	101.89	AVRG	R		0.009814		pg	101.89	0	.99	20	
Aroclor-1254 Peak # 1	B	104.92	AVRG	R		0.009531		pg	104.92	0	.99	20	
Aroclor-1254 Peak # 2	B	141.70	AVRG	R		0.007057		pg	141.70	0	.99	20	
Aroclor-1254 Peak # 3	B	99.153	AVRG	R		0.010085		pg	99.153	0	.99	20	
Aroclor-1254 Peak # 4	B	173.58	AVRG	R		0.005761		pg	173.58	0	.99	20	
Aroclor-1254 Peak # 5	B	34.776	AVRG	R		0.028756		pg	34.776	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254452018001 Name: Type: (normal) Date: 08-NOV-2004 21:38 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	314_009	254452018009	pcb10_2	08-NOV-2004 21:38	04WS1786
2	314_010	254452018010	pcb25_5	08-NOV-2004 22:05	04WS1787
3	314_011	254452018011	pcb100_20	08-NOV-2004 22:33	04WS1788
4	314_012	254452018012	pcb250_50	08-NOV-2004 23:01	04WS1789
5	314_013	254452018013	pcb500_100	08-NOV-2004 23:28	04WS1790
6	314_014	254452018014	pcb750_150	08-NOV-2004 23:56	04WS1791
7	314_015	254452018015	pcb1k_200	09-NOV-2004 00:24	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	126.20	118.24	111.27	98.534	91.700	100.31	93.412	AVRG	R		0.009464		pg	105.67	12	.99	20	
Aroclor-1016 Peak # 2	A	64.307	72.784	62.473	55.401	51.357	57.402	53.299	AVRG	R		0.016786		pg	59.575	13	.99	20	
Aroclor-1016 Peak # 3	A	39.970	42.383	37.983	33.613	31.301	35.144	32.471	AVRG	R		0.027683		pg	36.124	11	.99	20	
Aroclor-1016 Peak # 4	A	76.232	73.020	62.070	58.755	51.607	59.912	55.095	AVRG	R		0.016030		pg	62.385	15	.99	20	
Aroclor-1016 Peak # 5	A	41.034	43.969	38.603	35.792	33.247	36.400	35.001	AVRG	R		0.026511		pg	37.721	10	.99	20	
Aroclor-1260 Peak # 1	A	121.55	120.78	106.96	90.568	82.335	91.953	84.850	AVRG	R		0.010014		pg	99.856	17	.99	20	
Aroclor-1260 Peak # 2	A	183.25	178.81	161.54	136.29	123.09	138.26	127.22	AVRG	R		0.006676		pg	149.78	16	.99	20	
Aroclor-1260 Peak # 3	A	84.366	77.160	73.093	64.368	58.998	67.004	61.553	AVRG	R		0.014387		pg	69.506	13	.99	20	
Aroclor-1260 Peak # 4	A	87.700	88.617	83.219	71.435	65.471	74.791	69.205	AVRG	R		0.012952		pg	77.206	12	.99	20	
Aroclor-1260 Peak # 5	A	162.63	193.08	178.02	151.47	136.77	157.74	145.73	AVRG	R		0.006220		pg	160.78	12	.99	20	
TCMX	A	3685.3	3631.3	3160.6	2753.1	2593.8	2871.2	2687.4	AVRG	R		3.274E-4		pg	3054.7	15	.99	20	
Decachlorobiphenyl	A	1397.4	1488.3	1350.1	1189.9	1070.9	1266.6	1199.4	AVRG	R		7.810E-4		pg	1280.4	11	.99	20	
Aroclor-1016 Peak # 1	B	61.574	49.238	53.061	50.031	43.734	50.682	46.712	AVRG	R		0.019717		pg	50.719	11	.99	20	
Aroclor-1016 Peak # 2	B	94.725	75.925	80.169	65.461	61.818	65.983	61.367	AVRG	R		0.013849		pg	72.207	17	.99	20	
Aroclor-1016 Peak # 3	B	269.34	221.44	233.99	191.92	177.31	188.01	175.28	AVRG	R		0.004803		pg	208.18	17	.99	20	
Aroclor-1016 Peak # 4	B	75.935	55.300	66.151	55.216	52.066	56.068	52.409	AVRG	R		0.016943		pg	59.021	15	.99	20	
Aroclor-1016 Peak # 5	B	96.000	75.920	76.865	63.212	59.258	62.977	58.853	AVRG	R		0.014196		pg	70.441	19	.99	20	
Aroclor-1260 Peak # 1	B	148.87	130.31	132.66	104.77	95.228	98.227	91.434	AVRG	R		0.008734		pg	114.50	20	.99	20	
Aroclor-1260 Peak # 2	B	150.30	129.80	139.42	110.47	98.452	101.26	94.174	AVRG	R		0.008496		pg	117.70	19	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254452018001 Name: Type: (normal) Date: 08-NOV-2004 21:38 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	95.775	78.294	88.491	70.592	62.055	65.055	60.072	AVRG	R		0.013453		pg	74.334	18	.99	20	
Aroclor-1260 Peak # 4	B	107.43	86.227	96.360	76.748	69.210	71.256	66.393	AVRG	R		0.012203		pg	81.946	19	.99	20	
Aroclor-1260 Peak # 5	B	231.04	183.35	214.07	165.48	144.54	154.24	144.71	AVRG	R		0.005657		pg	176.77	19	.99	20	
TCMX	B	3671.2	3109.2	3290.1	2716.4	2558.1	2771.4	2592.1	AVRG	R		3.380E-4		pg	2958.4	14	.99	20	
Decachlorobiphenyl	B		1720.2	1773.4	1345.4	1216.1	1233.3	1177.4	AVRG	R		7.087E-4		pg	1411.0	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC22 Calname :
Calnum : 254452018001 Caldate : 08-NOV-2004 Caltype :

ICV 254452018018 (314_018) standards: 04WS1609

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	254452018018	09-NOV-2004	250.00	254.14	pg	2	15
Aroclor-1260	A	254452018018	09-NOV-2004	250.00	250.69	pg	0	15
TCMX	A	254452018018	09-NOV-2004	50.000	44.913	pg	-10	15
Decachlorobiphenyl	A	254452018018	09-NOV-2004	50.000	42.923	pg	-14	15
Aroclor-1016	B	254452018018	09-NOV-2004	250.00	262.57	pg	5	15
Aroclor-1260	B	254452018018	09-NOV-2004	250.00	247.76	pg	-1	15
TCMX	B	254452018018	09-NOV-2004	50.000	47.767	pg	-4	15
Decachlorobiphenyl	B	254452018018	09-NOV-2004	50.000	44.121	pg	-12	15

INITIAL CALIBRATION REPORT FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254452018002 Name: Type: (normal) Date: 09-NOV-2004 02:42 Inj Vol (uL): 1

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	314_020	254452018020	ar1254	09-NOV-2004 02:42	04WS2063

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	66.208	AVRG	R		0.015104		pg	66.208	0	.99	20	
Aroclor-1254 Peak # 2	A	114.42	AVRG	R		0.008740		pg	114.42	0	.99	20	
Aroclor-1254 Peak # 3	A	71.483	AVRG	R		0.013989		pg	71.483	0	.99	20	
Aroclor-1254 Peak # 4	A	117.76	AVRG	R		0.008492		pg	117.76	0	.99	20	
Aroclor-1254 Peak # 5	A	81.448	AVRG	R		0.012278		pg	81.448	0	.99	20	
Aroclor-1254 Peak # 1	B	76.993	AVRG	R		0.012988		pg	76.993	0	.99	20	
Aroclor-1254 Peak # 2	B	105.25	AVRG	R		0.009501		pg	105.25	0	.99	20	
Aroclor-1254 Peak # 3	B	73.318	AVRG	R		0.013639		pg	73.318	0	.99	20	
Aroclor-1254 Peak # 4	B	128.20	AVRG	R		0.007800		pg	128.20	0	.99	20	
Aroclor-1254 Peak # 5	B	26.164	AVRG	R		0.038220		pg	26.164	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004			250.00	235.45	pg	-6	15	
GC22	B	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004			250.00	243.22	pg	-3	15	
GC22	A	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004			500.00	487.92	pg	-2	15	
GC22	B	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004			500.00	467.45	pg	-7	15	
GC22	A	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004			500.00	434.37	pg	-13	15	
GC22	B	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004			500.00	465.97	pg	-7	15	
GC22	A	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004			250.00	239.34	pg	-4	15	
GC22	B	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004			250.00	243.94	pg	-2	15	

CONTINUING CALIBRATION SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254447510005	05-NOV-2004 19:53	254427213001	22-OCT-2004			250.00	248.61	pg	-1	15	
GC22	B	254447510005	05-NOV-2004 19:53	254427213001	22-OCT-2004			250.00	233.03	pg	-7	15	
GC22	A	254447510021	06-NOV-2004 03:15	254427213001	22-OCT-2004			250.00	248.23	pg	-1	15	
GC22	B	254447510021	06-NOV-2004 03:15	254427213001	22-OCT-2004			250.00	230.26	pg	-8	15	
GC22	A	254452018037	09-NOV-2004 10:35	254452018002	09-NOV-2004			250.00	235.28	pg	-6	15	
GC22	B	254452018037	09-NOV-2004 10:35	254452018002	09-NOV-2004			250.00	268.38	pg	7	15	
GC22	A	254452018052	09-NOV-2004 17:36	254452018002	09-NOV-2004			250.00	305.49	pg	22	15	c+ ***
GC22	B	254452018052	09-NOV-2004 17:36	254452018002	09-NOV-2004			250.00	321.14	pg	28	15	c+ ***

Samples ND
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+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004			250.00	218.72	pg	-13	15	
GC22	B	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004			250.00	227.43	pg	-9	15	
GC22	A	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004			500.00	432.31	pg	-14	15	
GC22	B	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004			500.00	421.91	pg	-16	15	c- ***Ch. A used
GC22	A	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004			500.00	435.68	pg	-13	15	
GC22	B	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004			500.00	437.28	pg	-13	15	
GC22	A	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004			250.00	250.37	pg	0	15	
GC22	B	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004			250.00	232.68	pg	-7	15	

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-=low bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004	3152.1	2867.6	50.000	45.486	pg	-9	15	
GC22	B	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004	3878.3	3562.0	50.000	45.922	pg	-8	15	
GC22	A	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004	3152.1	2945.1	100.00	93.432	pg	-7	15	
GC22	B	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004	3878.3	3456.9	100.00	89.134	pg	-11	15	
GC22	A	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004	3054.7	2519.2	100.00	82.470	pg	-18	15	c- Ch. B used
GC22	B	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004	2958.4	2697.3	100.00	91.177	pg	-9	15	
GC22	A	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004	3054.7	2820.8	50.000	46.173	pg	-8	15	
GC22	B	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004	2958.4	2826.5	50.000	47.771	pg	-4	15	

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-=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC22	A	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004	1463.9	1171.2	50.000	40.001	pg	-20	15	c-
GC22	B	254447510004	05-NOV-2004 19:26	254423080001	19-OCT-2004	1461.0	1297.5	50.000	44.407	pg	-11	15	
GC22	A	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004	1463.9	1136.0	100.00	77.603	pg	-22	15	c-
GC22	B	254447510020	06-NOV-2004 02:47	254423080001	19-OCT-2004	1461.0	1167.6	100.00	79.918	pg	-20	15	c-
GC22	A	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004	1280.4	1085.3	100.00	84.763	pg	-15	15	
GC22	B	254452018034	09-NOV-2004 09:08	254452018001	08-NOV-2004	1411.0	1236.5	100.00	87.639	pg	-12	15	
GC22	A	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004	1280.4	1207.0	50.000	47.135	pg	-6	15	
GC22	B	254452018050	09-NOV-2004 16:39	254452018001	08-NOV-2004	1411.0	1395.4	50.000	49.450	pg	-1	15	

-=low bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254423080 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 19-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
010	294_010	ICAL	pcb10_2			19-OCT-2004 19:20	1.0	1.0				1	
011	294_011	ICAL	pcb25_5			19-OCT-2004 19:48	1.0	1.0				2	
012	294_012	ICAL	pcb100_20			19-OCT-2004 20:15	1.0	1.0				3	
013	294_013	ICAL	pcb250_50			19-OCT-2004 20:43	1.0	1.0				4	
014	294_014	ICAL	pcb500_100			19-OCT-2004 21:11	1.0	1.0				5	
015	294_015	ICAL	pcb750_150			19-OCT-2004 21:38	1.0	1.0				6	
016	294_016	ICAL	cb1k_200			19-OCT-2004 22:06	1.0	1.0				7	
018	294_018	X	hex			19-OCT-2004 23:01	1.0						
019	294_019	ICV	accu_1660			19-OCT-2004 23:29	1.0	1.0			1	8	
020	294_020	X	icv			19-OCT-2004 23:56	1.0					8	
021	294_021	CCV	ar1254			20-OCT-2004 00:24	1.0	1.0			1	9	
024	294_024	BLANK	QC268708	95608	Water	20-OCT-2004 13:23	1.0	0.025	1		1		
025	294_025	BS	QC268709	95608	Water	20-OCT-2004 13:51	1.0	0.025			1		
026	294_026	BSD	QC268710	95608	Water	20-OCT-2004 14:18	1.0	0.025			1		
027	294_027	SAMPLE	175395-001	95608	Water	20-OCT-2004 14:46	1.0	0.02381	1		1		
028	294_028	SAMPLE	175395-002	95608	Water	20-OCT-2004 15:13	1.0	0.02381	1	1	1		
030	294_030	X	pcb500_100			20-OCT-2004 16:08	1.0					10	
031	294_031	CCV	ccv			20-OCT-2004 16:36	1.0	1.0	1		1	10	
032	294_032	X	ar1254			20-OCT-2004 17:04	1.0					9	
033	294_033	CCV	ccv			20-OCT-2004 17:31	1.0	1.0			1	9	
046	294_046	CCV	pcb250_50			20-OCT-2004 23:32	1.0					11	
047	294_047	X	ccv			21-OCT-2004 00:00	1.0					11	
048	294_048	CCV	ar1254			21-OCT-2004 00:27	1.0					9	
049	294_049	X	ccv			21-OCT-2004 00:55	1.0					9	
061	294_061	CCV	pcb500_100			21-OCT-2004 06:26	1.0					10	
062	294_062	X	ccv			21-OCT-2004 06:54	1.0					10	
063	294_063	CCV	ar1254			21-OCT-2004 07:22	1.0					9	
064	294_064	X	ccv			21-OCT-2004 07:49	1.0					9	

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS1995 10=04WS1855 11=04W

SEQUENCE SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254427213 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 22-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	296_002	CCV	ar1254 — ICAL			22-OCT-2004 16:13	1.0	1.0			1	1	
003	296_003	X	ccv			22-OCT-2004 16:41	1.0					1	
004	296_004	CCV	pcb250_50			22-OCT-2004 19:34	1.0	1.0			1	2	
005	296_005	X	ccv	mm 11/12/04		22-OCT-2004 20:01	1.0					2	
006	296_006	X	ccv			22-OCT-2004 20:29	1.0					2	
008	296_008	MDLCHEC	173258-009	95687	Water	22-OCT-2004 21:24	1.0	0.025			1		
009	296_009	SAMPLE	175295-002	95687	Water	22-OCT-2004 21:51	1.0	0.02404			1		
010	296_010	SAMPLE	175331-011	95687	Water	22-OCT-2004 22:19	1.0	0.02604			1		
011	296_011	SAMPLE	175277-017	95688	Soil	22-OCT-2004 22:47	1.0	0.6725			1		
012	296_012	SAMPLE	175277-018	95688	Soil	22-OCT-2004 23:14	1.0	0.6658			1		
013	296_013	SAMPLE	175293-001	95597	Soil	22-OCT-2004 23:42	1.0	0.6596			1		
014	296_014	SAMPLE	175293-002	95597	Soil	23-OCT-2004 00:09	1.0	0.664			1		
015	296_015	SAMPLE	175293-003	95597	Soil	23-OCT-2004 00:37	1.0	0.6689			1		
016	296_016	SAMPLE	175293-004	95597	Soil	23-OCT-2004 01:05	1.0	0.6662	1		1		2:PCB101=1210.93
018	296_018	CCV	pcb500_100			23-OCT-2004 02:00	1.0	1.0			1	3	
019	296_019	X	ccv			23-OCT-2004 02:28	1.0					3	
020	296_020	X	ar1254			23-OCT-2004 02:55	1.0					1	
021	296_021	CCV	ccv			23-OCT-2004 03:23	1.0	1.0			1	1	
023	296_023	SAMPLE	175331-012	95687	Water	23-OCT-2004 04:18	1.0	0.02451			1		
024	296_024	SAMPLE	175331-020	95687	Water	23-OCT-2004 04:46	1.0	0.02381			1		
025	296_025	SAMPLE	175331-023	95687	Water	23-OCT-2004 05:13	1.0	0.02381			1		
026	296_026	SAMPLE	175331-024	95687	Water	23-OCT-2004 05:41	1.0	0.02404			1		
027	296_027	SAMPLE	175314-001	95695	Soil	23-OCT-2004 06:08	1.0	0.6739			1		
028	296_028	SAMPLE	175314-002	95695	Soil	23-OCT-2004 06:36	1.0	0.6716			1		
029	296_029	SAMPLE	175314-003	95695	Soil	23-OCT-2004 07:04	1.0	0.6693			1		
030	296_030	SAMPLE	175314-004	95695	Soil	23-OCT-2004 07:31	1.0	0.6627			1		
031	296_031	SAMPLE	175314-005	95695	Soil	23-OCT-2004 07:59	1.0	0.6575			1		
033	296_033	CCV	pcb250_50			23-OCT-2004 08:54	1.0	1.0			1	2	
034	296_034	X	ccv			23-OCT-2004 09:22	1.0					2	
035	296_035	CCV	ar1254			23-OCT-2004 09:49	1.0	1.0			1	1	
036	296_036	X	ccv			23-OCT-2004 10:17	1.0					1	

Stds used: 1=04WS1995 2=04WS1996 3=04WS1855

SEQUENCE SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254427213 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 22-OCT-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
038	296_038	SAMPLE	175314-006	95695	Soil	23-OCT-2004 11:12	1.0	0.6743			1		
039	296_039	SAMPLE	175314-008	95695	Soil	23-OCT-2004 11:40	1.0	0.6653			1		
040	296_040	SAMPLE	175314-009	95695	Soil	23-OCT-2004 12:08	1.0	0.6761			1		
041	296_041	SAMPLE	175314-010	95695	Soil	23-OCT-2004 12:35	1.0	0.6631			1		
042	296_042	SAMPLE	175314-012	95695	Soil	23-OCT-2004 13:03	1.0	0.6684			1		
043	296_043	SAMPLE	175314-013	95695	Soil	23-OCT-2004 13:30	1.0	0.6702			1		
044	296_044	SAMPLE	175314-014	95695	Soil	23-OCT-2004 13:58	1.0	0.6627			1		
046	296_046	X	pcb500_100			23-OCT-2004 14:53	1.0					3	
047	296_047	CCV	ccv			23-OCT-2004 15:21	1.0	1.0			1	3	
048	296_048	X	ar1254			23-OCT-2004 15:48	1.0					1	
049	296_049	CCV	ccv			23-OCT-2004 16:16	1.0	1.0			1	1	

65

Stds used: 1=04WS1995 2=04WS1996 3=04WS1855

SEQUENCE SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254447510 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 05-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	310_002	X	ccv			05-NOV-2004 18:30	1.0					1	
003	310_003	X	ccv			05-NOV-2004 18:58	1.0					1	
004	310_004	CCV	pcb250_50			05-NOV-2004 19:26	1.0	1.0			1	1	
005	310_005	CCV	ar1254			05-NOV-2004 19:53	1.0	1.0			1	2	
006	310_006	X	ccv			05-NOV-2004 20:21	1.0					2	
007	310_007	X	hex			05-NOV-2004 20:48	1.0						
008	310_008	BLANK	QC271029	96179	Soil	05-NOV-2004 21:16	1.0	0.6684	1		1		
009	310_009	LCS	QC271030	96179	Soil	05-NOV-2004 21:43	1.0	0.6618			1		
010	310_010	SAMPLE	175726-001	96179	Soil	05-NOV-2004 22:11	1.0	0.6676	1		1		
011	310_011	SAMPLE	175726-002	96179	Soil	05-NOV-2004 22:39	1.0	0.6662	1		1		
012	310_012	SAMPLE	175726-003	96179	Soil	05-NOV-2004 23:06	1.0	0.6689	1		1		
013	310_013	MSS	175627-011	96179	Soil	05-NOV-2004 23:34	1.0	0.6575	1		1		
014	310_014	MS	QC271031	96179	Soil	06-NOV-2004 00:01	1.0	0.6566			1		2:PCB101=1065.51
015	310_015	MSD	QC271032	96179	Soil	06-NOV-2004 00:29	1.0	0.6583			1		
016	310_016	MS	QC270880	96142	Soil	06-NOV-2004 00:57	1.0	0.6596			1		2:PCB101=1618.96
017	310_017	MSD	QC270881	96142	Soil	06-NOV-2004 01:24	1.0	0.6566			1		
019	310_019	X	ccv			06-NOV-2004 02:19	1.0					3	
020	310_020	CCV	pcb500_100			06-NOV-2004 02:47	1.0	1.0	1		1	3	
021	310_021	CCV	ar1254			06-NOV-2004 03:15	1.0	1.0			1	2	
022	310_022	X	ccv			06-NOV-2004 03:42	1.0					2	
024	310_024	SAMPLE	175552-001	96104	Water	06-NOV-2004 04:37	1.0	0.024	4	1	1		3:PCB101=2760.41
025	310_025	SAMPLE	175784-001	96179	Miscel	06-NOV-2004 05:05	1.0						
026	310_026	SAMPLE	175792-001	96179	Soil	06-NOV-2004 05:32	1.0	0.6631	2		1		
027	310_027	SAMPLE	175792-007	96179	Soil	06-NOV-2004 06:00	1.0						
028	310_028	SAMPLE	175792-008	96179	Soil	06-NOV-2004 06:28	1.0	0.6757	2	1	1		
029	310_029	SAMPLE	175792-009	96179	Soil	06-NOV-2004 06:55	1.0						
030	310_030	SAMPLE	175792-010	96179	Soil	06-NOV-2004 07:23	1.0						
031	310_031	SAMPLE	175792-011	96179	Soil	06-NOV-2004 07:50	1.0						
032	310_032	X	hex			06-NOV-2004 08:18	1.0						
033	310_033	X	ccv			06-NOV-2004 08:46	1.0					1	
034	310_034	CCV	pcb250_50			06-NOV-2004 09:13	1.0	1.0			1	1	

Stds used: 1=04WS1996 2=04WS2063 3=04WS2064

SEQUENCE SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254447510 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 05-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
035	310_035	CCV	ar1254			06-NOV-2004 09:41	1.0	1.0	1		1	2	
036	310_036	X	ccv			06-NOV-2004 10:08	1.0					2	

67

Stds used: 1=04WS1996 2=04WS2063 3=04WS2064

SEQUENCE SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254452018 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 08-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
008	314_008	X	hex			08-NOV-2004 21:10	1.0						
009	314_009	ICAL	pcb10_2			08-NOV-2004 21:38	1.0	1.0				1	
010	314_010	ICAL	pcb25_5			08-NOV-2004 22:05	1.0	1.0				2	
011	314_011	ICAL	pcb100_20			08-NOV-2004 22:33	1.0	1.0				3	
012	314_012	ICAL	pcb250_50			08-NOV-2004 23:01	1.0	1.0				4	
013	314_013	ICAL	pcb500_100			08-NOV-2004 23:28	1.0	1.0				5	
014	314_014	ICAL	pcb750_150			08-NOV-2004 23:56	1.0	1.0				6	
015	314_015	ICAL	pcb1k_200			09-NOV-2004 00:24	1.0	1.0				7	
018	314_018	ICV	accu_1660			09-NOV-2004 01:46	1.0	1.0			1	8	
019	314_019	X	icv			09-NOV-2004 02:14	1.0					8	
020	314_020	CCV	ar1254 — I CAL			09-NOV-2004 02:42	1.0	1.0			1	9	
021	314_021	X	ccv mcs 11/12/04			09-NOV-2004 03:09	1.0					9	
023	314_023	BLANK	QC271164	96209	Water	09-NOV-2004 04:04	1.0	0.025			1		
024	314_024	BS	QC271165	96209	Water	09-NOV-2004 04:32	1.0	0.025			1		
025	314_025	BSD	QC271166	96209	Water	09-NOV-2004 05:00	1.0	0.025			1		
026	314_026	SAMPLE	175784-002	96209	Water	09-NOV-2004 05:27	1.0	0.02778		3	1		
027	314_027	SAMPLE	175784-001	96179	Miscel	09-NOV-2004 05:55	1.0	0.6631			1		
028	314_028	SAMPLE	175792-008	96179	Soil	09-NOV-2004 06:22	1.0	0.6757			1		
029	314_029	SAMPLE	175792-007	96179	Soil	09-NOV-2004 06:50	2.0	0.6684			1		
030	314_030	SAMPLE	175792-010	96179	Soil	09-NOV-2004 07:18	2.0	0.668			1		
031	314_031	SAMPLE	175792-009	96179	Soil	09-NOV-2004 07:45	10.0	0.6752			1		
032	314_032	SAMPLE	175792-011	96179	Soil	09-NOV-2004 08:13	10.0	0.6592			1		
034	314_034	CCV	pcb500_100			09-NOV-2004 09:08	1.0	1.0			1	10	
035	314_035	X	ccv			09-NOV-2004 09:36	1.0					10	
036	314_036	X	ccv			09-NOV-2004 10:03	1.0					9	
037	314_037	CCV	ar1254			09-NOV-2004 10:35	1.0	1.0			1	9	1:CL10BZ=228.824
039	314_039	SAMPLE	B 175836-001	96179	Soil	09-NOV-2004 11:36	1.0	0.664			1		
040	314_040	SAMPLE	175836-002	96179	Soil	09-NOV-2004 12:04	1.0	0.6605			1		
041	314_041	SAMPLE	175836-003	96179	Soil	09-NOV-2004 12:31	1.0	0.6623			1		
042	314_042	SAMPLE	175836-004	96179	Soil	09-NOV-2004 12:59	1.0	0.6649			1		
043	314_043	SAMPLE	175836-005	96179	Soil	09-NOV-2004 13:26	1.0	0.672			1		

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS2063 10=04WS2064 11=04W

SEQUENCE SUMMARY FOR 175836 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254452018 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 08-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
044	314_044	SAMPLE	175836-006	96179	Soil	09-NOV-2004 13:54	1.0	0.6658			1		
045	314_045	SAMPLE	175836-007	96179	Soil	09-NOV-2004 14:21	1.0	0.6702			1		
046	314_046	SAMPLE	175836-008	96179	Soil	09-NOV-2004 14:49	1.0	0.6614			1		
047	314_047	SAMPLE	175836-009	96179	Soil	09-NOV-2004 15:16	1.0	0.6605			1		
048	314_048	SAMPLE	175798-002	96209	Water	09-NOV-2004 15:44	1.0	0.02381	1	2	1		
050	314_050	CCV	pcb250_100			09-NOV-2004 16:39	1.0	1.0			1	11	
052	314_052	CCV	ar1254			09-NOV-2004 17:36	1.0	1.0	2		1	9	
053	314_053	X	ccv			09-NOV-2004 18:04	1.0					9	

69

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS2063 10=04WS2064 11=04W

Reporting Summary for 175836 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175836-001	Aroclor-1016	GC22	B	11/09/04 11:36
175836-001	Aroclor-1221	GC22	B	11/09/04 11:36
175836-001	Aroclor-1232	GC22	B	11/09/04 11:36
175836-001	Aroclor-1242	GC22	B	11/09/04 11:36
175836-001	Aroclor-1248	GC22	B	11/09/04 11:36
175836-001	Aroclor-1254	GC22	B	11/09/04 11:36
175836-001	Aroclor-1260	GC22	B	11/09/04 11:36
175836-001	TCMX	GC22	B	11/09/04 11:36
175836-001	Decachlorobiphenyl	GC22	B	11/09/04 11:36
175836-002	Aroclor-1016	GC22	B	11/09/04 12:04
175836-002	Aroclor-1221	GC22	B	11/09/04 12:04
175836-002	Aroclor-1232	GC22	B	11/09/04 12:04
175836-002	Aroclor-1242	GC22	B	11/09/04 12:04
175836-002	Aroclor-1248	GC22	B	11/09/04 12:04
175836-002	Aroclor-1254	GC22	B	11/09/04 12:04
175836-002	Aroclor-1260	GC22	B	11/09/04 12:04
175836-002	TCMX	GC22	B	11/09/04 12:04
175836-002	Decachlorobiphenyl	GC22	B	11/09/04 12:04
175836-003	Aroclor-1016	GC22	B	11/09/04 12:31
175836-003	Aroclor-1221	GC22	B	11/09/04 12:31
175836-003	Aroclor-1232	GC22	B	11/09/04 12:31
175836-003	Aroclor-1242	GC22	B	11/09/04 12:31
175836-003	Aroclor-1248	GC22	B	11/09/04 12:31
175836-003	Aroclor-1254	GC22	B	11/09/04 12:31
175836-003	Aroclor-1260	GC22	B	11/09/04 12:31
175836-003	TCMX	GC22	B	11/09/04 12:31
175836-003	Decachlorobiphenyl	GC22	B	11/09/04 12:31
175836-004	Aroclor-1016	GC22	B	11/09/04 12:59
175836-004	Aroclor-1221	GC22	B	11/09/04 12:59
175836-004	Aroclor-1232	GC22	B	11/09/04 12:59
175836-004	Aroclor-1242	GC22	B	11/09/04 12:59
175836-004	Aroclor-1248	GC22	B	11/09/04 12:59
175836-004	Aroclor-1254	GC22	B	11/09/04 12:59
175836-004	Aroclor-1260	GC22	B	11/09/04 12:59
175836-004	TCMX	GC22	B	11/09/04 12:59
175836-004	Decachlorobiphenyl	GC22	B	11/09/04 12:59
175836-005	Aroclor-1016	GC22	B	11/09/04 13:26
175836-005	Aroclor-1221	GC22	B	11/09/04 13:26
175836-005	Aroclor-1232	GC22	B	11/09/04 13:26
175836-005	Aroclor-1242	GC22	B	11/09/04 13:26
175836-005	Aroclor-1248	GC22	B	11/09/04 13:26
175836-005	Aroclor-1254	GC22	B	11/09/04 13:26
175836-005	Aroclor-1260	GC22	B	11/09/04 13:26
175836-005	TCMX	GC22	B	11/09/04 13:26
175836-005	Decachlorobiphenyl	GC22	B	11/09/04 13:26
175836-006	Aroclor-1016	GC22	B	11/09/04 13:54
175836-006	Aroclor-1221	GC22	B	11/09/04 13:54
175836-006	Aroclor-1232	GC22	B	11/09/04 13:54
175836-006	Aroclor-1242	GC22	B	11/09/04 13:54

Reporting Summary for 175836 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175836-006	Aroclor-1248	GC22	B	11/09/04 13:54
175836-006	Aroclor-1254	GC22	B	11/09/04 13:54
175836-006	Aroclor-1260	GC22	B	11/09/04 13:54
175836-006	TCMX	GC22	B	11/09/04 13:54
175836-006	Decachlorobiphenyl	GC22	B	11/09/04 13:54
175836-007	Aroclor-1016	GC22	B	11/09/04 14:21
175836-007	Aroclor-1221	GC22	B	11/09/04 14:21
175836-007	Aroclor-1232	GC22	B	11/09/04 14:21
175836-007	Aroclor-1242	GC22	B	11/09/04 14:21
175836-007	Aroclor-1248	GC22	B	11/09/04 14:21
175836-007	Aroclor-1254	GC22	B	11/09/04 14:21
175836-007	Aroclor-1260	GC22	B	11/09/04 14:21
175836-007	TCMX	GC22	B	11/09/04 14:21
175836-007	Decachlorobiphenyl	GC22	B	11/09/04 14:21
175836-008	Aroclor-1016	GC22	B	11/09/04 14:49
175836-008	Aroclor-1221	GC22	B	11/09/04 14:49
175836-008	Aroclor-1232	GC22	B	11/09/04 14:49
175836-008	Aroclor-1242	GC22	B	11/09/04 14:49
175836-008	Aroclor-1248	GC22	B	11/09/04 14:49
175836-008	Aroclor-1254	GC22	B	11/09/04 14:49
175836-008	Aroclor-1260	GC22	B	11/09/04 14:49
175836-008	TCMX	GC22	B	11/09/04 14:49
175836-008	Decachlorobiphenyl	GC22	B	11/09/04 14:49
175836-009	Aroclor-1016	GC22	B	11/09/04 15:16
175836-009	Aroclor-1221	GC22	B	11/09/04 15:16
175836-009	Aroclor-1232	GC22	B	11/09/04 15:16
175836-009	Aroclor-1242	GC22	B	11/09/04 15:16
175836-009	Aroclor-1248	GC22	B	11/09/04 15:16
175836-009	Aroclor-1254	GC22	B	11/09/04 15:16
175836-009	Aroclor-1260	GC22	B	11/09/04 15:16
175836-009	TCMX	GC22	B	11/09/04 15:16
175836-009	Decachlorobiphenyl	GC22	B	11/09/04 15:16
QC271029	Aroclor-1016	GC22	A	11/05/04 21:16
QC271029	Aroclor-1221	GC22	A	11/05/04 21:16
QC271029	Aroclor-1232	GC22	A	11/05/04 21:16
QC271029	Aroclor-1242	GC22	A	11/05/04 21:16
QC271029	Aroclor-1248	GC22	A	11/05/04 21:16
QC271029	Aroclor-1254	GC22	A	11/05/04 21:16
QC271029	Aroclor-1260	GC22	A	11/05/04 21:16
QC271029	TCMX	GC22	A	11/05/04 21:16
QC271029	Decachlorobiphenyl	GC22	A	11/05/04 21:16
QC271030	Aroclor-1254	GC22	A	11/05/04 21:43
QC271030	TCMX	GC22	A	11/05/04 21:43
QC271030	Decachlorobiphenyl	GC22	A	11/05/04 21:43
QC271031	Aroclor-1254	GC22	A	11/06/04 00:01
QC271031	TCMX	GC22	A	11/06/04 00:01
QC271031	Decachlorobiphenyl	GC22	A	11/06/04 00:01

Reporting Summary for 175836 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC271032	Aroclor-1254	GC22	A	11/06/04 00:29
QC271032	TCMX	GC22	A	11/06/04 00:29
QC271032	Decachlorobiphenyl	GC22	A	11/06/04 00:29

Curtis & Tompkins Laboratories Sample Preparation Summary 05-NOV-2004 20:17

Batch Number : 96179
Date Extracted: 05-NOV-2004
Extracted by : Brook N. Buswell
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1994A
Spike #2 ID : 04WS2065A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175627-011			LFR Levine Fricke	Soil	15.21	g	10	0.657462	1		.025	0		PCB	3665A	mss
175726-001			URS Corporation	Soil	14.98	g	10	0.667557	1		.025	0		PCB	3665A	
175726-002			URS Corporation	Soil	15.01	g	10	0.666223	1		.025	0		PCB	3665A	
175726-003			URS Corporation	Soil	14.95	g	10	0.668896	1		.025	0		PCB	3665A	
175784-001			LFR Levine Fricke	Miscell.	15.08	g	10	0.663130	1		.025	0		PCB	3665A	
175792-001			Burns & McDonnell	Soil	15.08	g	10	0.663130	1		.025	0		PCB	3665A	
175792-007			Burns & McDonnell	Soil	14.96	g	10	0.668449	1		.025	0		PCB	3665A	
175792-008			Burns & McDonnell	Soil	14.8	g	10	0.675676	1		.025	0		PCB	3665A	
175792-009			Burns & McDonnell	Soil	14.81	g	10	0.675219	1		.025	0		PCB	3665A	
175792-010			Burns & McDonnell	Soil	14.97	g	10	0.668003	1		.025	0		PCB	3665A	
175792-011			Burns & McDonnell	Soil	15.17	g	10	0.659196	1		.025	0		PCB	3665A	
175836-001			Treadwell & Rollo	Soil	15.06	g	10	0.664011	1		.025	0		PCB	3665A	
175836-002			Treadwell & Rollo	Soil	15.14	g	10	0.660502	1		.025	0		PCB	3665A	
175836-003			Treadwell & Rollo	Soil	15.1	g	10	0.662252	1		.025	0		PCB	3665A	
175836-004			Treadwell & Rollo	Soil	15.04	g	10	0.664894	1		.025	0		PCB	3665A	
175836-005			Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.025	0		PCB	3665A	
175836-006			Treadwell & Rollo	Soil	15.02	g	10	0.665779	1		.025	0		PCB	3665A	
175836-007			Treadwell & Rollo	Soil	14.92	g	10	0.670241	1		.025	0		PCB	3665A	
175836-008			Treadwell & Rollo	Soil	15.12	g	10	0.661376	1		.025	0		PCB	3665A	
175836-009			Treadwell & Rollo	Soil	15.14	g	10	0.660502	1		.025	0		PCB	3665A	
QC271029	MB			Soil	14.96	g	10	0.668449	1		.025	0		PCB	3665A	
QC271030	LCS			Soil	15.11	g	10	0.661813	1		.025	.025		PCB	3665A	
QC271031	MS	of 175627-011		Soil	15.23	g	10	0.656599	1		.025	.025		PCB	3665A	
QC271032	MSD	of 175627-011		Soil	15.19	g	10	0.658328	1		.025	.025		PCB	3665A	

Prep Chemist: JRD for BB 11/5/04 Reviewed By: [signature] Date: 11/5/04

Relinquished By: JRD for BB 11/5/04 Received By: [signature] Date: 11/8/04

Curtis & Tompkins, Ltd. **PCB 8082 SOIL PREP LOG** BK 2014

LIMS Batch No: 96179
LIMS Analysis PCB
Extracted by: BB
Date Extracted: 11/5/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☒ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
MB BC271029	14.96	10.0	
LCS 30	15.11		
MS 1	15.23		
MSD 2	15.19		
175627-011	15.21		MSS
175726-001	14.98		
-002	15.01		
-003	14.95		
175784-001	15.08		
175792-001	15.08		
-007	14.96		
-008	14.80		
-009	14.81		
-010	14.97		
-011	15.17		
175836-001	15.06	10.0	Added After Z-out JED 11/5/04
-002	15.14		
-003	15.10		
-004	15.04		
-005	14.88	BB 11/5/04	
-006	15.02		
-007	14.92		
-008	15.12		
-009	15.14		

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM 44028421	BB 11/5/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	DIONEX 040112	
0.025 mL of surrogate solution was added to all samples	04WS1994A	
0.025 mL of spike solution 1254 was added to all spikes	04WS2065A	
1:1 CH_2Cl_2 (lot# EM44244):Acetone(lot# EM44211) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	WHATMAN 1 28	
PFE (ASE) / soxhlets on at:	NA	
PFE (ASE) / soxhlets off at:	↓	
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	↓	↓
Concentrated to volumes noted above after exchange to Hexane Lot#	CM222	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTBA A30036	↓
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	

11/5/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

11/05/04
Reviewed by / Date

PROJECT Soil Aliquot

Continued From Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175688-001A	30.31	8310	
MS	30.10	↓	
MSD	30.13	↓	
LCS	30.04	↓	
MB	30.32	↓	
175721-001	30.02	8270	4, COMP A-D
↓ -002	29.92	↓	↓
175721-001	14.89	PCB	↓
↓ -002	15.15	↓	↓
175721-001	14.91	8081	↓
↓ -002	15.08	↓	↓
175721-001	50.29	TEHM	↓
↓ -002	50.20	↓	↓
175726-001	15.17	8081	4, COMP A-D
↓ -002	14.97	↓	↓
↓ -003	14.99	↓	↓
175726-001	49.92	TEHM	↓
↓ -002	50.06	↓	↓
↓ -003	50.14	↓	↓
175726-001	14.98	PCB	↓
↓ -002	15.01	↓	↓
↓ -003	14.95	↓	↓
175726-001	30.31	8100	↓
↓ -002	30.25	↓	↓
↓ -003	29.99	↓	↓
1751689-008		TEHM	6, COMP 1A-4A + 6A + 7A

Continued on Page

Read and Understood By

Michelle [illegible] 11/3/04

Signed Date Signed Date

PROJECT Soil Aliquot

Continued From Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
175747-001A	50.08	TEH	SILICA GEL
-002	49.98		
-003	50.30		
-005	50.43		
-006	49.84		
-007	49.99		
-009	50.44		
-012	49.92		
175748-001A	M= 1/4 ~~50.04~~ 3.15	8270	ROCKY
-002	~~50.38~~ 29.98		
-003	30.08		
175749-001A	49.88	TEH	HYDROLIC OIL, SILICAGE
-003	49.96		
-004	50.04		
-005	50.06		
175751-005	50.15	TEH	4 COMP 1A-4A
175762-003	50.28	TEHM	2 COMP 175500-008A+0
175627-011A	15.21	PCB	reextract
MS	15.23		175627-011A
MSD	15.19		
LCS	15.11		EM44028421
MB	14.96		

Continued on Page

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Michelle Cantu — Signed — 11/4/04 — Date

Signed — Date

PROJECT Soil Aliquot

SAMPLE ID	WEIGHT(g)	ANALYSIS	COMMENTS
175787-001A	50.37	TEHM	
-002	50.16		
-003	50.00		
-004	50.27		
-005	50.06		
175784-001A	50.28	TEHM	
175784-001A	15.08	PCB	

Continued on Page

Read and Understood By

Michelle Curtis
Signed

Date Signed Date

Notebook No. 21 2013

Continued From Page

Weight	Analysis	Comments
15.08	PCB	
14.84		
15.0[illegible]		
15.0[illegible]		
15.04		
[illegible]		
14.[illegible]		
14.0		
14.8		
14.87		
15.17		

Continued on Page

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Michelle Curto 11/4/04 78

PROJECT Soil Acrylic

Notebook No. BK 2015

Continued From Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
LCS	30.04	8310	CM 442842
MB	30.04	↓	↓
175834-001 A	50.02	TEHM	
-002	50.22		
-003	50.28		
-004	50.15		
-005	50.22		
175834-001		82-%-SIM	
-002			
-003			
-004			
-005			
MS			
MSD			
LCS			
MB			
175838-001A	50.38	TEHM	
175838-001A		8270	
MS			
MSD			
LCS			
MB			
175838-001A	15.07	Hexane 8240 8081	
175838-001A	14.84	PCB	
175838-001A	15.06	PCB	
-002	15.14		
-003	15.10		
-004	15.04		
-005	14.88		
-006	15.02		
-007	14.92		
-008	15.12		
-009	15.14		

Continued on Page —

Read and Understood By

Michelle Carter 11/5/04

Signed Date

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14 A	GC14 B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0					04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	11/02/04 4.4	11/02/04 3.7			08/02/03 2.3	08/02/03 2.0	10/30/04 4.0	10/30/04 2.9
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9					04/07/04 2.2	04/07/04 2.5

80

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX137[0.5]	Batch#:	96221
Lab ID:	175836-001	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 3%

Analyte	Result	RL	Dilu Fac
Antimony	ND	2.3	1.000
Arsenic	3.2	0.19	1.000
Barium	11	0.38	1.000
Beryllium	0.20	0.076	1.000
Cadmium	0.25	0.19	1.000
Chromium	36	0.38	1.000
Cobalt	5.0	0.76	1.000
Copper	2.8	0.38	1.000
Iron	12,000	38	10.00
Lead	1.2	0.11	1.000
Manganese	120	0.38	1.000
Molybdenum	ND	0.76	1.000
Nickel	22	0.76	1.000
Selenium	ND	0.19	1.000
Silver	ND	0.19	1.000
Thallium	ND	0.19	1.000
Vanadium	32	0.38	1.000
Zinc	12	0.76	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX138[0.5]	Batch#:	96221
Lab ID:	175836-002	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 8%

Analyte	Result	RL	Diln Fac
Antimony	ND	3.0	1.000
Arsenic	2.5	0.25	1.000
Barium	11	0.51	1.000
Beryllium	0.18	0.10	1.000
Cadmium	0.25	0.25	1.000
Chromium	34	0.51	1.000
Cobalt	4.1	1.0	1.000
Copper	2.4	0.51	1.000
Iron	13,000	51	10.00
Lead	0.82	0.15	1.000
Manganese	120	0.51	1.000
Molybdenum	ND	1.0	1.000
Nickel	18	1.0	1.000
Selenium	ND	0.25	1.000
Silver	ND	0.25	1.000
Thallium	ND	0.25	1.000
Vanadium	37	0.51	1.000
Zinc	11	1.0	1.000

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

3.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX143[0.5]	Batch#:	96221
Lab ID:	175836-003	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 8%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.7	1.000
Arsenic	2.9	0.22	1.000
Barium	57	0.44	1.000
Beryllium	0.21	0.088	1.000
Cadmium	0.29	0.22	1.000
Chromium	35	0.44	1.000
Cobalt	5.1	0.88	1.000
Copper	5.0	0.44	1.000
Iron	14,000	44	10.00
Lead	2.3	0.13	1.000
Manganese	190	0.44	1.000
Molybdenum	ND	0.88	1.000
Nickel	19	0.88	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	38	0.44	1.000
Zinc	17	0.88	1.000

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

4.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	DUP110504A	Batch#:	96221
Lab ID:	175836-004	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 9%

Analyte	Result	RL	Diln Fac
Antimony	ND	3.4	1.000
Arsenic	3.0	0.28	1.000
Barium	26	0.56	1.000
Beryllium	0.23	0.11	1.000
Cadmium	ND	0.28	1.000
Chromium	38	0.56	1.000
Cobalt	5.1	1.1	1.000
Copper	4.4	0.56	1.000
Iron	13,000	56	10.00
Lead	5.0	0.17	1.000
Manganese	170	0.56	1.000
Molybdenum	ND	1.1	1.000
Nickel	21	1.1	1.000
Selenium	ND	0.28	1.000
Silver	ND	0.28	1.000
Thallium	ND	0.28	1.000
Vanadium	39	0.56	1.000
Zinc	20	1.1	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX140[0.5]	Batch#:	96221
Lab ID:	175836-005	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 4%

Analyte	Result	RL	Diln Fac
Antimony	ND	3.1	1.000
Arsenic	2.4	0.26	1.000
Barium	13	0.51	1.000
Beryllium	0.21	0.10	1.000
Cadmium	ND	0.26	1.000
Chromium	43	0.51	1.000
Cobalt	5.3	1.0	1.000
Copper	3.4	0.51	1.000
Iron	14,000	51	10.00
Lead	1.3	0.15	1.000
Manganese	150	0.51	1.000
Molybdenum	ND	1.0	1.000
Nickel	21	1.0	1.000
Selenium	ND	0.26	1.000
Silver	ND	0.26	1.000
Thallium	ND	0.26	1.000
Vanadium	41	0.51	1.000
Zinc	14	1.0	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX141[2.5]	Batch#:	96221
Lab ID:	175836-006	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 9%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.9	1.000
Arsenic	2.8	0.24	1.000
Barium	270	0.48	1.000
Beryllium	0.40	0.096	1.000
Cadmium	0.80	0.24	1.000
Chromium	110	0.48	1.000
Cobalt	20	0.96	1.000
Copper	39	0.48	1.000
Iron	35,000	48	10.00
Lead	4.3	0.14	1.000
Manganese	640	0.48	1.000
Molybdenum	ND	0.96	1.000
Nickel	82	0.96	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	91	0.48	1.000
Zinc	49	0.96	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX141[5.5]	Batch#:	96221
Lab ID:	175836-007	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 7%

Analyte	Result	RL	Diln Fac
Antimony	2.9	2.7	1.000
Arsenic	2.2	0.23	1.000
Barium	94	0.45	1.000
Beryllium	0.40	0.090	1.000
Cadmium	1.0	0.23	1.000
Chromium	130	0.45	1.000
Cobalt	25	0.90	1.000
Copper	53	0.45	1.000
Iron	46,000	90	20.00
Lead	ND	0.14	1.000
Manganese	1,000	4.5	10.00
Molybdenum	ND	0.90	1.000
Nickel	68	0.90	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	100	0.45	1.000
Zinc	45	0.90	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX142[0.5]	Batch#:	96221
Lab ID:	175836-008	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 3%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.5	1.000
Arsenic	3.4	0.21	1.000
Barium	32	0.42	1.000
Beryllium	0.26	0.084	1.000
Cadmium	0.40	0.21	1.000
Chromium	65	0.42	1.000
Cobalt	6.8	0.84	1.000
Copper	6.9	0.42	1.000
Iron	19,000	42	10.00
Lead	2.3	0.13	1.000
Manganese	200	0.42	1.000
Molybdenum	ND	0.84	1.000
Nickel	31	0.84	1.000
Selenium	ND	0.21	1.000
Silver	ND	0.21	1.000
Thallium	ND	0.21	1.000
Vanadium	55	0.42	1.000
Zinc	19	0.84	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX144[0.5]	Batch#:	96221
Lab ID:	175836-009	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 2%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.9	1.000
Arsenic	3.0	0.24	1.000
Barium	12	0.49	1.000
Beryllium	0.19	0.097	1.000
Cadmium	ND	0.24	1.000
Chromium	39	0.49	1.000
Cobalt	5.1	0.97	1.000
Copper	3.4	0.49	1.000
Iron	12,000	49	10.00
Lead	2.1	0.15	1.000
Manganese	140	0.49	1.000
Molybdenum	ND	0.97	1.000
Nickel	23	0.97	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	35	0.49	1.000
Zinc	15	0.97	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC271205	Batch#:	96221
Matrix:	Soil	Prepared:	11/07/04
Units:	mg/Kg	Analyzed:	11/08/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Manganese	ND	0.50
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	96221
Units:	mg/Kg	Prepared:	11/07/04
Basis:	as received	Analyzed:	11/08/04
Diln Fac:	1.000		

Type: BS Lab ID: QC271206

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	99.00	99	75-125
Arsenic	50.00	51.50	103	75-125
Barium	100.0	98.50	99	75-125
Beryllium	2.500	2.525	101	75-125
Cadmium	10.00	10.10	101	75-125
Chromium	100.0	97.50	98	75-125
Cobalt	25.00	24.05	96	75-125
Copper	12.50	11.95	96	75-125
Iron	1,000	956.0	96	75-125
Lead	100.0	93.50	94	75-125
Manganese	25.00	23.60	94	75-125
Molybdenum	20.00	19.90	100	75-125
Nickel	25.00	24.25	97	75-125
Selenium	50.00	47.45	95	75-125
Silver	10.00	9.900	99	75-125
Thallium	50.00	48.35	97	75-125
Vanadium	25.00	25.15	101	75-125
Zinc	25.00	23.75	95	75-125

Type: BSD Lab ID: QC271207

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.5	101	75-125	2	30
Arsenic	50.00	52.00	104	75-125	1	30
Barium	100.0	99.00	99	75-125	1	30
Beryllium	2.500	2.540	102	75-125	1	30
Cadmium	10.00	10.05	101	75-125	0	30
Chromium	100.0	98.00	98	75-125	1	30
Cobalt	25.00	24.15	97	75-125	0	30
Copper	12.50	12.20	98	75-125	2	30
Iron	1,000	960.5	96	75-125	0	30
Lead	100.0	94.50	95	75-125	1	30
Manganese	25.00	23.80	95	75-125	1	30
Molybdenum	20.00	20.10	101	75-125	1	30
Nickel	25.00	24.25	97	75-125	0	30
Selenium	50.00	48.15	96	75-125	1	30
Silver	10.00	10.05	101	75-125	2	30
Thallium	50.00	48.60	97	75-125	1	30
Vanadium	25.00	25.40	102	75-125	1	30
Zinc	25.00	23.75	95	75-125	0	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	96221
MSS Lab ID:	175833-002	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/07/04
Basis:	dry	Analyzed:	11/08/04
Diln Fac:	1.000		

Type: MS
Lab ID: QC271208
Moisture: 4%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.608	70.86	40.04	54 *	75-125
Arsenic	3.530	35.43	37.20	95	75-125
Barium	26.25	70.86	92.83	94	75-125
Beryllium	0.1776	1.772	1.846	94	75-125
Cadmium	0.5138	7.086	7.122	93	75-125
Chromium	45.09	70.86	109.5	91	75-125
Cobalt	5.348	17.72	21.68	92	75-125
Copper	6.222	8.858	13.18	79	75-125
Iron	16,090	708.6	15,370 >LR	-103 NM	75-125
Lead	18.39	70.86	75.47	81	75-125
Manganese	161.5	17.72	184.6	130 NM	75-125
Molybdenum	0.3240	14.17	13.00	89	75-125
Nickel	22.06	17.72	38.97	95	75-125
Selenium	0.4719	35.43	31.71	88	75-125
Silver	<0.06875	7.086	6.590	93	75-125
Thallium	<0.1458	35.43	31.92	90	75-125
Vanadium	45.09	17.72	62.00	95	75-125
Zinc	40.55	17.72	43.93	19 *	75-125

Type: MSD
Lab ID: QC271209
Moisture: 4%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	77.74	47.81	59 *	75-125	9	30
Arsenic	38.87	41.20	97	75-125	2	30
Barium	77.74	101.1	96	75-125	2	30
Beryllium	1.943	2.048	96	75-125	2	30
Cadmium	7.774	7.929	95	75-125	2	30
Chromium	77.74	119.7	96	75-125	3	30
Cobalt	19.43	23.13	91	75-125	1	30
Copper	9.717	14.19	82	75-125	2	30
Iron	777.4	15,680 >LR	-53 NM	75-125	NC	30
Lead	77.74	82.01	82	75-125	1	30
Manganese	19.43	174.5	67 NM	75-125	7	30
Molybdenum	15.55	14.65	92	75-125	3	30
Nickel	19.43	41.59	101	75-125	2	30
Selenium	38.87	35.68	91	75-125	3	30
Silver	7.774	7.385	95	75-125	2	30
Thallium	38.87	35.53	91	75-125	1	30
Vanadium	19.43	64.52	100	75-125	1	30
Zinc	19.43	45.86	27 *	75-125	1	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	175836	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Basis:	dry
Type:	Serial Dilution	Batch#:	96221
MSS Lab ID:	175833-002	Sampled:	11/05/04
Lab ID:	QC271210	Received:	11/05/04
Matrix:	Soil	Analyzed:	11/08/04
Units:	mg/Kg		

Moisture: 4%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Dilu Fac
Antimony	ND	2.097	2.0 J	10		10	5.000
Arsenic	3.530	0.1748	3.1	0.87	12 *	10	5.000
Barium	26.25	0.3496	25	1.7	4	10	5.000
Beryllium	0.1776	0.06991	0.19 J	0.35		10	5.000
Cadmium	0.5138	0.1748	0.40 J	0.87		10	5.000
Chromium	45.09	0.3496	45	1.7	0	10	5.000
Cobalt	5.348	0.6991	5.4	3.5	1	10	5.000
Copper	6.222	0.3496	6.0	1.7	4	10	5.000
Iron	16,090	17.48	16,000	87	1	10	25.00
Lead	18.39	0.1049	20	0.52	9	10	5.000
Manganese	161.5	0.3496	160	1.7	2	10	5.000
Molybdenum	ND	0.6991	0.28 J	3.5		10	5.000
Nickel	22.06	0.6991	22	3.5	1	10	5.000
Selenium	0.4719	0.1748	ND	0.87		10	5.000
Silver	ND	0.1748	ND	0.87		10	5.000
Thallium	ND	0.1748	ND	0.87		10	5.000
Vanadium	45.09	0.3496	44	1.7	3	10	5.000
Zinc	40.55	0.6991	40	3.5	1	10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74451135035	Seqnum	: 74451135043
Filename	: tr253920	Filename	: tr253928
IDF	: 1.0	IDF	: 1.0
PDF	: 33.56	PDF	: 33.56
Run type	: MSS	Run type	: PDS
Samplenum	: 175833-002	Samplenum	: QC271222
Matrix	: Soil	Matrix	: Soil
Batchnum	: 96221	Batchnum	: 96221
Inj	: 08-NOV-2004 10:06	Inj	: 08-NOV-2004 10:43
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	46.00	2000	1970	96	16-120	u
Arsenic	101.0	1000	1090	99	62-120	u
Barium	751.0	2000	2630	94	51-137	u
Beryllium	5.080	50	51.50	93	70-120	u
Cadmium	14.70	200	201.0	93	61-120	u
Calcium	*** usable MSS data not found ***					
Chromium	1290	2000	3130	92	60-120	u
Cobalt	153.0	500	606.0	91	56-120	u
Copper	178.0	250	411.0	93	47-144	u
Iron	*** usable MSS data not found ***					
Lead	526.0	2000	2440	96	47-126	u
Magnesium	59530	20000	78950	97	44-152	
Manganese	4620	500	5070	90	62-131	: u
Molybdenum	9.270	400	395.0	96	57-120	u
Nickel	631.0	500	1080	90	41-138	u
Selenium	13.50	1000	1030	102	35-122	u
Silver	ND	200	189.0	95	71-120	u
Thallium	ND	1000	958.0	96	53-120	u
Vanadium	1290	500	1750	92	48-136	u
Zinc	1160	500	1640	96	38-144	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

Method: 6010B Standard: blank
Run Time: 11/08/04 06:47:33

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.001	.001	.000	.001	-.194	.004	.000
SDev	.001	.001	.001	.001	.000	.001	.000
%RSD	82.5	102.	425.	132.	.195	22.9	99.2
#1	-.000	.000	-.000	.000	-.194	.003	.000
#2	-.001	.002	.001	.001	-.194	.005	.001

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.004	.004	-.002	.000	.001	-.008
SDev	.000	.000	.002	.002	.000	.002	.003
%RSD	36.1	1.75	55.7	115.	58.1	191.	36.3
#1	-.001	.004	.002	-.003	.000	-.000	-.010
#2	-.000	.004	.005	-.000	.001	.002	-.006

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.004	-.001	-.004	.001	.036	.0313	-.0000
SDev	.000	.002	.001	.000	.000	.0000	.0001
%RSD	5.49	240.	14.0	73.0	.136	.1005	212.0
#1	.004	-.002	-.004	.000	.036	.0313	-.0001
#2	.004	.001	-.003	.001	.036	.0314	.0000

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0010	-.0002	.001	.291
SDev	.0007	.0000	.000	.001
%RSD	70.81	18.31	6.15	.479
#1	-.0015	-.0002	.001	.290
#2	-.0005	-.0002	.001	.292

Method: 6010B Standard: cst hi
Run Time: 11/08/04 06:51:02

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.981	.529	.220	13.1	3.20	1.09	.252
SDev	.002	.000	.001	.0	.00	.00	.000
%RSD	.159	.045	.592	.179	.024	.258	.013
#1	.982	.529	.219	13.1	3.20	1.09	.252
#2	.980	.528	.221	13.1	3.20	1.08	.252

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.768	.445	.938	.882	1.79	1.86	.243
SDev	.001	.001	.010	.008	.02	.00	.001
%RSD	.083	.120	1.04	.871	1.04	.079	.436
#1	.768	.445	.931	.887	1.78	1.86	.244
#2	.769	.444	.945	.876	1.81	1.86	.243

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.261	.260	.152	.869	.180	.1364	.3698
SDev	.000	.001	.000	.000	.000	.0001	.0002
%RSD	.112	.460	.126	.014	.015	.1015	.0427
#1	.261	.259	.152	.869	.180	.1365	.3699
#2	.261	.260	.152	.869	.180	.1363	.3697

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1295	.2142	1.17	6.80
SDev	.0000	.0003	.00	.01
%RSD	.0188	.1502	.029	.087
#1	.1295	.2140	1.17	6.81
#2	.1295	.2145	1.17	6.80

Standardization Report 11/08/04 06:54:47 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	1012.79	.892257	11/08/04 06:51:02
Sb206A	206.832	Multiple	Standards	1858.86	-2.18863	11/08/04 06:51:02
As1890	189.042	Multiple	Standards	2274.03	-.356211	11/08/04 06:51:02
Ba4934	493.409	Multiple	Standards	76.2138	-.040538	11/08/04 06:51:02
Be3130	313.042	Multiple	Standards	28.4197	5.50833	11/08/04 06:51:02
Cd2265	226.502	Multiple	Standards	92.2972	-.365652	11/08/04 06:51:02
Cr2677	267.716	Multiple	Standards	794.627	-.325731	11/08/04 06:51:02
Co2286	228.616	Multiple	Standards	651.858	.335740	11/08/04 06:51:02
Cu3247	324.754	Multiple	Standards	454.105	-1.85679	11/08/04 06:51:02
Pb2203	220.351	Multiple	Standards	535.885	-1.93085	11/08/04 06:51:02
Pb220A	220.352	Multiple	Standards	561.008	.945708	11/08/04 06:51:02
Mo2020	202.030	Multiple	Standards	558.067	-.248300	11/08/04 06:51:02
Ni2316	231.604	Multiple	Standards	268.585	-.215377	11/08/04 06:51:02
Se1960	196.021	Multiple	Standards	1992.97	15.1537	11/08/04 06:51:02
Se196A	196.022	Multiple	Standards	1942.77	-7.23977	11/08/04 06:51:02
Ag3280	328.068	Multiple	Standards	384.323	.325888	11/08/04 06:51:02
Tl1908	190.864	Multiple	Standards	3234.81	11.5197	11/08/04 06:51:02
V_2924	292.402	Multiple	Standards	575.761	-.291304	11/08/04 06:51:02
Zn2138	213.856	Multiple	Standards	717.689	-25.9315	11/08/04 06:51:02
Al3082	308.215	Multiple	Standards	9696.19	-303.968	11/08/04 06:51:02
Ca3179	317.933	Multiple	Standards	5407.41	.189045	11/08/04 06:51:02
Fe2714	271.441	Multiple	Standards	8020.53	7.84370	11/08/04 06:51:02
Mg2790	279.079	Multiple	Standards	9322.39	1.87108	11/08/04 06:51:02
Mn2576	257.610	Multiple	Standards	85.2788	-.066982	11/08/04 06:51:02
Pb sum	220.353	NONE	NONE	1.00000	.000000	*11/08/04 06:51:02
Sb sum	206.838	NONE	NONE	1.00000	.000000	*11/08/04 06:51:02
Se sum	196.026	NONE	NONE	1.00000	.000000	*11/08/04 06:51:02
Ti3349	334.941	Multiple	Standards	153.608	-44.7082	11/08/04 06:51:02

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74451135001 Filename : tr253886 Injected : 08-NOV-2004 06:55
Caltype :

Standards: 04WS1891

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1001.000	ug/L	0	5	
Antimony	1000.000	1000.000	ug/L	0	5	
Arsenic	500.0000	511.0000	ug/L	2	5	
Barium	1000.000	995.0000	ug/L	-1	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	101.0000	ug/L	1	5	
Calcium	2000.000	2012.000	ug/L	1	5	
Chromium	200.0000	201.0000	ug/L	1	5	
Cobalt	500.0000	503.0000	ug/L	1	5	
Copper	200.0000	200.0000	ug/L	0	5	
Iron	1000.000	1009.000	ug/L	1	5	
Lead	500.0000	504.0000	ug/L	1	5	
Magnesium	2000.000	2023.000	ug/L	1	5	
Manganese	100.0000	100.0000	ug/L	0	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	504.0000	ug/L	1	5	
Selenium	500.0000	506.0000	ug/L	1	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	506.0000	ug/L	1	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	501.0000	ug/L	0	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74451135002 Filename : tr253887 Injected : 08-NOV-2004 06:59
Caltype :

Standards: 04WS2066

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	485.0000	ug/L	-3	10	
Antimony	500.0000	496.0000	ug/L	-1	10	
Arsenic	250.0000	251.0000	ug/L	0	10	
Barium	500.0000	483.0000	ug/L	-3	10	
Beryllium	50.00000	49.00000	ug/L	-2	10	
Cadmium	50.00000	50.30000	ug/L	1	10	
Calcium	1000.000	994.8000	ug/L	-1	10	
Chromium	100.0000	99.30000	ug/L	-1	10	
Cobalt	250.0000	243.0000	ug/L	-3	10	
Copper	100.0000	98.50000	ug/L	-2	10	
Iron	500.0000	489.8000	ug/L	-2	10	
Lead	250.0000	252.0000	ug/L	1	10	
Magnesium	1000.000	997.3000	ug/L	0	10	
Manganese	50.00000	47.90000	ug/L	-4	10	
Molybdenum	500.0000	498.0000	ug/L	0	10	
Nickel	250.0000	248.0000	ug/L	-1	10	
Selenium	250.0000	246.0000	ug/L	-2	10	
Silver	50.00000	52.20000	ug/L	4	10	
Thallium	250.0000	245.0000	ug/L	-2	10	
Titanium	500.0000	500.0000	ug/L	0	10	
Vanadium	250.0000	244.0000	ug/L	-2	10	
Zinc	50.00000	48.00000	ug/L	-4	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135004
Run Name :
Filename : tr253889
Injected : 08-NOV-2004 07:15
Caltype :

Standards: 04WS1931

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	95.08000	ug/L	-5	50	
Antimony	60.00000	57.90000	ug/L	-4	50	
Arsenic	5.000000	5.500000	ug/L	10	50	
Barium	10.00000	9.630000	ug/L	-4	50	
Beryllium	2.000000	2.020000	ug/L	1	50	
Cadmium	5.000000	4.910000	ug/L	-2	50	
Calcium	200.0000	210.7000	ug/L	5	50	
Chromium	10.00000	10.00000	ug/L	0	50	
Cobalt	20.00000	18.70000	ug/L	-7	50	
Copper	10.00000	9.730000	ug/L	-3	50	
Iron	100.0000	108.9000	ug/L	9	50	
Lead	3.000000	3.710000	ug/L	24	50	
Magnesium	200.0000	202.8000	ug/L	1	50	
Manganese	10.00000	9.510000	ug/L	-5	50	
Molybdenum	20.00000	19.60000	ug/L	-2	50	
Nickel	20.00000	19.70000	ug/L	-2	50	
Selenium	5.000000	4.670000	ug/L	-7	50	
Silver	5.000000	5.030000	ug/L	1	50	
Thallium	5.000000	5.970000	ug/L	19	50	
Vanadium	10.00000	9.840000	ug/L	-2	50	
Zinc	20.00000	18.60000	ug/L	-7	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135012
Run Name :
Filename : tr253897
IDF : 1.0
Injected : 08-NOV-2004 08:00
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	485.9000	ug/L	-3	10	
Antimony		500.0000	492.0000	ug/L	-2	10	
Arsenic		250.0000	244.0000	ug/L	-2	10	
Barium		500.0000	466.0000	ug/L	-7	10	
Beryllium		50.00000	49.70000	ug/L	-1	10	
Cadmium		50.00000	48.60000	ug/L	-3	10	
Calcium		1000.000	1021.000	ug/L	2	10	
Chromium		100.0000	99.30000	ug/L	-1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	98.50000	ug/L	-2	10	
Iron		500.0000	504.6000	ug/L	1	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1020.000	ug/L	2	10	
Manganese		50.00000	48.30000	ug/L	-3	10	
Molybdenum		500.0000	499.0000	ug/L	0	10	
Nickel		250.0000	245.0000	ug/L	-2	10	
Selenium		250.0000	246.0000	ug/L	-2	10	
Silver		50.00000	52.00000	ug/L	4	10	
Thallium		250.0000	240.0000	ug/L	-4	10	
Titanium		500.0000	498.0000	ug/L	0	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	48.30000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135024
Run Name :
Filename : tr253909
IDF : 1.0
Injected : 08-NOV-2004 09:03
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	652.7000	ug/L	**-13**	10	c- **
Antimony		750.0000	685.0000	ug/L	-9	10	
Arsenic		375.0000	340.0000	ug/L	-9	10	
Barium		750.0000	668.0000	ug/L	**-11**	10	c- **
Beryllium		75.00000	67.70000	ug/L	-10	10	
Cadmium		75.00000	68.20000	ug/L	-9	10	
Calcium		1500.000	1357.000	ug/L	-10	10	
Chromium		150.0000	137.0000	ug/L	-9	10	
Cobalt		375.0000	334.0000	ug/L	**-11**	10	c- **
Copper		150.0000	136.0000	ug/L	-9	10	
Iron		750.0000	677.6000	ug/L	-10	10	
Lead		375.0000	345.0000	ug/L	-8	10	
Magnesium		1500.000	1366.000	ug/L	-9	10	
Manganese		75.00000	65.50000	ug/L	**-13**	10	c- **
Molybdenum		750.0000	688.0000	ug/L	-8	10	
Nickel		375.0000	338.0000	ug/L	-10	10	
Selenium		375.0000	338.0000	ug/L	-10	10	
Silver		75.00000	69.60000	ug/L	-7	10	
Thallium		375.0000	338.0000	ug/L	-10	10	
Titanium		750.0000	697.0000	ug/L	-7	10	
Vanadium		375.0000	337.0000	ug/L	-10	10	
Zinc		75.00000	63.50000	ug/L	**-15**	10	c- **

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135030
Run Name :
Filename : tr253915
IDF : 1.0
Injected : 08-NOV-2004 09:40
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	483.6000	ug/L	-3	10	
Antimony		500.0000	496.0000	ug/L	-1	10	
Arsenic		250.0000	249.0000	ug/L	0	10	
Barium		500.0000	485.0000	ug/L	-3	10	
Beryllium		50.00000	49.20000	ug/L	-2	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	997.4000	ug/L	0	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	99.00000	ug/L	-1	10	
Iron		500.0000	502.7000	ug/L	1	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	48.10000	ug/L	-4	10	
Molybdenum		500.0000	497.0000	ug/L	-1	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	52.40000	ug/L	5	10	
Thallium		250.0000	249.0000	ug/L	0	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	258.0000	ug/L	3	10	
Zinc		50.00000	49.30000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135041
Run Name :
Filename : tr253926
IDF : 1.0
Injected : 08-NOV-2004 10:31
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	769.3000	ug/L	3	10	
Antimony		750.0000	763.0000	ug/L	2	10	
Arsenic		375.0000	381.0000	ug/L	2	10	
Barium		750.0000	739.0000	ug/L	-1	10	
Beryllium		75.00000	74.70000	ug/L	0	10	
Cadmium		75.00000	76.70000	ug/L	2	10	
Calcium		1500.000	1501.000	ug/L	0	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	370.0000	ug/L	-1	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	807.6000	ug/L	8	10	
Lead		375.0000	384.0000	ug/L	2	10	
Magnesium		1500.000	1529.000	ug/L	2	10	
Manganese		75.00000	72.80000	ug/L	-3	10	
Molybdenum		750.0000	760.0000	ug/L	1	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	384.0000	ug/L	2	10	
Silver		75.00000	76.90000	ug/L	3	10	
Thallium		375.0000	381.0000	ug/L	2	10	
Titanium		750.0000	776.0000	ug/L	3	10	
Vanadium		375.0000	376.0000	ug/L	0	10	
Zinc		75.00000	73.80000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135053
Standards: 04WS2067

Run Name :
Filename : tr253938

IDF : 1.0
Injected : 08-NOV-2004 11:46
Caltype :

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	526.0000	ug/L	5	10	
Antimony		500.0000	520.0000	ug/L	4	10	
Arsenic		250.0000	265.0000	ug/L	6	10	
Barium		500.0000	510.0000	ug/L	2	10	
Beryllium		50.00000	50.50000	ug/L	1	10	
Cadmium		50.00000	53.90000	ug/L	8	10	
Calcium		1000.000	991.9000	ug/L	-1	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	523.1000	ug/L	5	10	
Lead		250.0000	264.0000	ug/L	6	10	
Magnesium		1000.000	1048.000	ug/L	5	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	519.0000	ug/L	4	10	
Nickel		250.0000	265.0000	ug/L	6	10	
Selenium		250.0000	263.0000	ug/L	5	10	
Silver		50.00000	54.80000	ug/L	10	10	
Thallium		250.0000	268.0000	ug/L	7	10	
Titanium		500.0000	529.0000	ug/L	6	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	54.50000	ug/L	9	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135065
Run Name :
Filename : tr253951
IDF : 1.0
Injected : 08-NOV-2004 12:49
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	741.2000	ug/L	-1	10	
Antimony		750.0000	727.0000	ug/L	-3	10	
Arsenic		375.0000	364.0000	ug/L	-3	10	
Barium		750.0000	716.0000	ug/L	-5	10	
Beryllium		75.00000	71.20000	ug/L	-5	10	
Cadmium		75.00000	74.30000	ug/L	-1	10	
Calcium		1500.000	1429.000	ug/L	-5	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	354.0000	ug/L	-6	10	
Copper		150.0000	143.0000	ug/L	-5	10	
Iron		750.0000	801.9000	ug/L	7	10	
Lead		375.0000	371.0000	ug/L	-1	10	
Magnesium		1500.000	1468.000	ug/L	-2	10	
Manganese		75.00000	70.00000	ug/L	-7	10	
Molybdenum		750.0000	723.0000	ug/L	-4	10	
Nickel		375.0000	365.0000	ug/L	-3	10	
Selenium		375.0000	363.0000	ug/L	-3	10	
Silver		75.00000	73.20000	ug/L	-2	10	
Thallium		375.0000	360.0000	ug/L	-4	10	
Titanium		750.0000	740.0000	ug/L	-1	10	
Vanadium		375.0000	356.0000	ug/L	-5	10	
Zinc		75.00000	71.20000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135077
Run Name :
Filename : tr253963
IDF : 1.0
Injected : 08-NOV-2004 14:04
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	506.7000	ug/L	1	10	
Antimony		500.0000	493.0000	ug/L	-1	10	
Arsenic		250.0000	254.0000	ug/L	2	10	
Barium		500.0000	502.0000	ug/L	0	10	
Beryllium		50.00000	48.60000	ug/L	-3	10	
Cadmium		50.00000	52.20000	ug/L	4	10	
Calcium		1000.000	943.9000	ug/L	-6	10	
Chromium		100.0000	99.10000	ug/L	-1	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	95.90000	ug/L	-4	10	
Iron		500.0000	497.5000	ug/L	-1	10	
Lead		250.0000	253.0000	ug/L	1	10	
Magnesium		1000.000	1003.000	ug/L	0	10	
Manganese		50.00000	46.90000	ug/L	-6	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	255.0000	ug/L	2	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	256.0000	ug/L	2	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	241.0000	ug/L	-4	10	
Zinc		50.00000	52.10000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135088
Run Name :
Filename : tr253974
IDF : 1.0
Injected : 08-NOV-2004 15:13
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	817.9000	ug/L	9	10	
Antimony		750.0000	737.0000	ug/L	-2	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	747.0000	ug/L	0	10	
Beryllium		75.00000	70.80000	ug/L	-6	10	
Cadmium		75.00000	78.10000	ug/L	4	10	
Calcium		1500.000	1461.000	ug/L	-3	10	
Chromium		150.0000	146.0000	ug/L	-3	10	
Cobalt		375.0000	356.0000	ug/L	-5	10	
Copper		150.0000	141.0000	ug/L	-6	10	
Iron		750.0000	762.6000	ug/L	2	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1571.000	ug/L	5	10	
Manganese		75.00000	68.10000	ug/L	-9	10	
Molybdenum		750.0000	728.0000	ug/L	-3	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	366.0000	ug/L	-2	10	
Silver		75.00000	72.80000	ug/L	-3	10	
Thallium		375.0000	376.0000	ug/L	0	10	
Titanium		750.0000	748.0000	ug/L	0	10	
Vanadium		375.0000	356.0000	ug/L	-5	10	
Zinc		75.00000	74.10000	ug/L	-1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135100

Run Name :
Filename : tr253986

IDF : 1.0
Injected : 08-NOV-2004 16:29
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	525.3000	ug/L	5	10	
Antimony		500.0000	514.0000	ug/L	3	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	484.0000	ug/L	-3	10	
Beryllium		50.00000	49.00000	ug/L	-2	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	991.3000	ug/L	-1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	243.0000	ug/L	-3	10	
Copper		100.0000	98.20000	ug/L	-2	10	
Iron		500.0000	514.7000	ug/L	3	10	
Lead		250.0000	267.0000	ug/L	7	10	
Magnesium		1000.000	1006.000	ug/L	1	10	
Manganese		50.00000	48.50000	ug/L	-3	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	247.0000	ug/L	-1	10	
Selenium		250.0000	264.0000	ug/L	6	10	
Silver		50.00000	52.50000	ug/L	5	10	
Thallium		250.0000	252.0000	ug/L	1	10	
Titanium		500.0000	512.0000	ug/L	2	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	50.70000	ug/L	1	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135113
Run Name :
Filename : tr253999
IDF : 1.0
Injected : 08-NOV-2004 17:37
Caltype :

Standards: 04WS1885

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		250.0000	276.2000	ug/L	10	10	
Antimony		250.0000	261.0000	ug/L	4	10	
Arsenic		125.0000	126.0000	ug/L	1	10	
Barium		250.0000	246.0000	ug/L	-2	10	
Beryllium		25.00000	24.90000	ug/L	0	10	
Cadmium		25.00000	25.50000	ug/L	2	10	
Calcium		500.0000	520.6000	ug/L	4	10	
Chromium		50.00000	50.90000	ug/L	2	10	
Cobalt		125.0000	123.0000	ug/L	-2	10	
Copper		50.00000	47.90000	ug/L	-4	10	
Iron		250.0000	252.7000	ug/L	1	10	
Lead		125.0000	134.0000	ug/L	7	10	
Magnesium		500.0000	532.8000	ug/L	7	10	
Manganese		25.00000	24.40000	ug/L	-2	10	
Molybdenum		250.0000	254.0000	ug/L	2	10	
Nickel		125.0000	126.0000	ug/L	1	10	
Selenium		125.0000	130.0000	ug/L	4	10	
Silver		25.00000	25.60000	ug/L	2	10	
Thallium		125.0000	127.0000	ug/L	2	10	
Titanium		250.0000	264.0000	ug/L	6	10	
Vanadium		125.0000	123.0000	ug/L	-2	10	
Zinc		25.00000	23.10000	ug/L	-8	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135125
Run Name :
Filename : tr254011
IDF : 1.0
Injected : 08-NOV-2004 18:36
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	525.8000	ug/L	5	10	
Antimony		500.0000	490.0000	ug/L	-2	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	489.0000	ug/L	-2	10	
Beryllium		50.00000	49.10000	ug/L	-2	10	
Cadmium		50.00000	49.90000	ug/L	0	10	
Calcium		1000.000	1023.000	ug/L	2	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	97.90000	ug/L	-2	10	
Iron		500.0000	493.1000	ug/L	-1	10	
Lead		250.0000	249.0000	ug/L	0	10	
Magnesium		1000.000	1034.000	ug/L	3	10	
Manganese		50.00000	48.30000	ug/L	-3	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	247.0000	ug/L	-1	10	
Selenium		250.0000	238.0000	ug/L	-5	10	
Silver		50.00000	52.90000	ug/L	6	10	
Thallium		250.0000	247.0000	ug/L	-1	10	
Titanium		500.0000	515.0000	ug/L	3	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	51.80000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135131
Run Name :
Filename : tr254017
IDF : 1.0
Injected : 08-NOV-2004 19:15
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	862.2000	ug/L	**15**	10	c+ **
Antimony		750.0000	750.0000	ug/L	0	10	
Arsenic		375.0000	376.0000	ug/L	0	10	
Barium		750.0000	746.0000	ug/L	-1	10	
Beryllium		75.00000	74.10000	ug/L	-1	10	
Cadmium		75.00000	75.80000	ug/L	1	10	
Calcium		1500.000	1582.000	ug/L	5	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	798.3000	ug/L	6	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1595.000	ug/L	6	10	
Manganese		75.00000	72.70000	ug/L	-3	10	
Molybdenum		750.0000	755.0000	ug/L	1	10	
Nickel		375.0000	375.0000	ug/L	0	10	
Selenium		375.0000	369.0000	ug/L	-2	10	
Silver		75.00000	76.80000	ug/L	2	10	
Thallium		375.0000	375.0000	ug/L	0	10	
Titanium		750.0000	778.0000	ug/L	4	10	
Vanadium		375.0000	372.0000	ug/L	-1	10	
Zinc		75.00000	72.50000	ug/L	-3	10	

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INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135003 Run Name:
Filename: tr253888 Run Type: ICB

Injected: 08-NOV-2004 07:11

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.9400]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135013 Run Name: Injected: 08-NOV-2004 08:08
Filename: tr253898 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[2.9700]	5.000000	ug/L	<RL	
Barium	[0.6340]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.3200]	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[7.5900]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	5.290000	5.000000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Thallium	7.880000	5.000000	ug/L	<RL	ib ***
Titanium	[3.0300]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135025 Run Name: Injected: 08-NOV-2004 09:14
Filename: tr253910 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.1300]	5.000000	ug/L	<RL	
Barium	[0.5580]	10.00000	ug/L	<RL	
Beryllium	[0.3480]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[7.8700]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	9.220000	5.000000	ug/L	<RL	ib ***
Titanium	[1.9900]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

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Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135031 Run Name: Injected: 08-NOV-2004 09:43
Filename: tr253916 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.7300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.0800]	5.000000	ug/L	<RL
Titanium	[4.4000]	10.00000	ug/L	<RL
Vanadium	[6.9700]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135042 Run Name: Injected: 08-NOV-2004 10:36
Filename: tr253927 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.6000]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.2620]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[40.060]	100.0000	ug/L	<RL
Lead	[1.3900]	3.000000	ug/L	<RL
Magnesium	[13.830]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.5500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[5.9400]	10.00000	ug/L	<RL
Vanadium	[2.0700]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135054 Run Name: Injected: 08-NOV-2004 11:54
Filename: tr253939 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.4690]	10.00000	ug/L	<RL	
Beryllium	[0.3660]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	[1.3500]	3.000000	ug/L	<RL	
Magnesium	[10.010]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[6.8300]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	[4.5700]	5.000000	ug/L	<RL	
Titanium	11.70000	10.00000	ug/L	<RL	ib ***
Vanadium	[1.3400]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

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Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135066 Run Name: Injected: 08-NOV-2004 12:57
Filename: tr253952 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.8330]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[32.530]	100.0000	ug/L	<RL	
Lead	[1.6800]	3.000000	ug/L	<RL	
Magnesium	[12.680]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	10.20000	10.00000	ug/L	<RL	ib ***
Vanadium	[1.1300]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

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Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135078 Run Name: Injected: 08-NOV-2004 14:12
Filename: tr253964 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[10.040]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[8.2300]	10.00000	ug/L	<RL
Vanadium	[1.8700]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

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Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135089 Run Name: Injected: 08-NOV-2004 15:21
Filename: tr253975 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[74.620]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[27.350]	100.0000	ug/L	<RL
Lead	[1.4500]	3.000000	ug/L	<RL
Magnesium	[40.400]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[9.9700]	10.00000	ug/L	<RL
Vanadium	[1.6900]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135101 Run Name: Injected: 08-NOV-2004 16:38
Filename: tr253987 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.4670]	10.00000	ug/L	<RL	
Beryllium	[0.3130]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[20.410]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[16.860]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[5.2100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	11.50000	10.00000	ug/L	<RL	ib ***
Vanadium	[2.5300]	10.00000	ug/L	<RL	
Zinc	[5.3300]	20.00000	ug/L	<RL	

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Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135114 Run Name: Injected: 08-NOV-2004 17:44
Filename: tr254000 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.1700]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.7700]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[14.970]	100.0000	ug/L	<RL
Lead	[1.5800]	3.000000	ug/L	<RL
Magnesium	[20.850]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[7.3400]	10.00000	ug/L	<RL
Vanadium	[1.6500]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135126 Run Name: Injected: 08-NOV-2004 18:48
Filename: tr254012 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.4940]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[18.270]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[18.720]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[1.7000]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	18.40000	10.00000	ug/L	<RL	ib ***
Vanadium	[1.5400]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135132 Run Name: Injected: 08-NOV-2004 19:23
Filename: tr254018 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[84.820]	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.3000]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[16.880]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[28.340]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.3410]	10.00000	ug/L	<RL
Vanadium	[2.4200]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135005 Run Name: Injected: 08-NOV-2004 07:22
Filename: tr253890 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[6.0100]	60.00000	ug/L	<RL	
Arsenic	[-0.442]	5.000000	ug/L	<RL	
Barium	[-1.320]	10.00000	ug/L	<RL	
Beryllium	[-0.630]	2.000000	ug/L	<RL	
Cadmium	[4.3400]	5.000000	ug/L	<RL	
Chromium	[3.4600]	10.00000	ug/L	<RL	
Cobalt	[0.6450]	10.00000	ug/L	<RL	
Copper	[-3.560]	10.00000	ug/L	<RL	
Lead	-6.20000	3.000000	ug/L	<RL	a- ***
Manganese	[2.0800]	10.00000	ug/L	<RL	
Molybdenum	[-0.216]	20.00000	ug/L	<RL	
Nickel	[2.6000]	20.00000	ug/L	<RL	
Selenium	[0.1940]	5.000000	ug/L	<RL	
Silver	[0.7250]	5.000000	ug/L	<RL	
Thallium	[-2.150]	5.000000	ug/L	<RL	
Titanium	27.80000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-1.900]	10.00000	ug/L	<RL	
Zinc	[3.6200]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	506400	ug/L	101
Calcium	500000	455500.	ug/L	91
Iron	200000	176800	ug/L	88
Magnesium	500000	497700	ug/L	100

+=high bias -=low bias a=ICSA

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74451135007 Run Name: Injected: 08-NOV-2004 07:34
Filename: tr253892 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[6.8500]	60.00000	ug/L	<RL
Arsenic	[0.7740]	5.000000	ug/L	<RL
Barium	[0.0170]	10.00000	ug/L	<RL
Beryllium	[-0.635]	2.000000	ug/L	<RL
Cadmium	[4.3600]	5.000000	ug/L	<RL
Chromium	[3.1900]	10.00000	ug/L	<RL
Cobalt	[0.4650]	10.00000	ug/L	<RL
Copper	[-3.870]	10.00000	ug/L	<RL
Lead	[1.6200]	3.000000	ug/L	<RL
Manganese	[2.0200]	10.00000	ug/L	<RL
Molybdenum	[-0.549]	20.00000	ug/L	<RL
Nickel	[2.2800]	20.00000	ug/L	<RL
Selenium	[-4.770]	5.000000	ug/L	<RL
Silver	[0.6020]	5.000000	ug/L	<RL
Thallium	[4.8200]	5.000000	ug/L	<RL
Titanium	27.70000	10.00000	ug/L	<RL a+ ***
Vanadium	[-1.590]	10.00000	ug/L	<RL
Zinc	[3.7600]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	507700	ug/L	102
Calcium	500000	459400.	ug/L	92
Iron	200000	178100	ug/L	89
Magnesium	500000	502300	ug/L	100

+=high bias a=ICSA

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74451135008

Run Name :
Filename : tr253893

Injected : 08-NOV-2004 07:38
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	516100.0	ug/L	3		
Antimony	500.0000	543.0000	ug/L	9	20	
Arsenic	500.0000	541.0000	ug/L	8	20	
Barium	500.0000	474.0000	ug/L	-5	20	
Beryllium	500.0000	503.0000	ug/L	1	20	
Cadmium	1000.000	934.0000	ug/L	-7	20	
Calcium	500000.0	467000.0	ug/L	-7		
Chromium	500.0000	469.0000	ug/L	-6	20	
Cobalt	500.0000	461.0000	ug/L	-8	20	
Copper	500.0000	485.0000	ug/L	-3	20	
Iron	200000.0	180900.0	ug/L	-10		
Lead	1000.000	950.0000	ug/L	-5	20	
Magnesium	500000.0	510600.0	ug/L	2		
Manganese	500.0000	457.0000	ug/L	-9	20	
Molybdenum	500.0000	502.0000	ug/L	0	20	
Nickel	1000.000	879.0000	ug/L	-12	20	
Selenium	500.0000	529.0000	ug/L	6	20	
Silver	1000.000	908.0000	ug/L	-9	20	
Thallium	500.0000	481.0000	ug/L	-4	20	
Titanium	20000.00	22400.00	ug/L	12		
Vanadium	500.0000	487.0000	ug/L	-3	20	
Zinc	1000.000	980.0000	ug/L	-2	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74451135087 Filename : tr253973 Injected : 08-NOV-2004 15:07
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	468300.0	ug/L	-6		
Antimony	500.0000	531.0000	ug/L	6	20	
Arsenic	500.0000	539.0000	ug/L	8	20	
Barium	500.0000	495.0000	ug/L	-1	20	
Beryllium	500.0000	467.0000	ug/L	-7	20	
Cadmium	1000.000	965.0000	ug/L	-4	20	
Calcium	500000.0	425600.0	ug/L	-15		
Chromium	500.0000	456.0000	ug/L	-9	20	
Cobalt	500.0000	439.0000	ug/L	-12	20	
Copper	500.0000	459.0000	ug/L	-8	20	
Iron	200000.0	173800.0	ug/L	-13		
Lead	1000.000	907.0000	ug/L	-9	20	
Magnesium	500000.0	485500.0	ug/L	-3		
Manganese	500.0000	427.0000	ug/L	-15	20	
Molybdenum	500.0000	484.0000	ug/L	-3	20	
Nickel	1000.000	884.0000	ug/L	-12	20	
Selenium	500.0000	505.0000	ug/L	1	20	
Silver	1000.000	856.0000	ug/L	-14	20	
Thallium	500.0000	493.0000	ug/L	-1	20	
Titanium	20000.00	21300.00	ug/L	7		
Vanadium	500.0000	472.0000	ug/L	-6	20	
Zinc	1000.000	941.0000	ug/L	-6	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74451135130 Filename : tr254016 Injected : 08-NOV-2004 19:08
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	478500.0	ug/L	-4		
Antimony	500.0000	549.0000	ug/L	10	20	
Arsenic	500.0000	544.0000	ug/L	9	20	
Barium	500.0000	498.0000	ug/L	0	20	
Beryllium	500.0000	494.0000	ug/L	-1	20	
Cadmium	1000.000	955.0000	ug/L	-5	20	
Calcium	500000.0	469700.0	ug/L	-6		
Chromium	500.0000	474.0000	ug/L	-5	20	
Cobalt	500.0000	457.0000	ug/L	-9	20	
Copper	500.0000	488.0000	ug/L	-2	20	
Iron	200000.0	181200.0	ug/L	-9		
Lead	1000.000	925.0000	ug/L	-8	20	
Magnesium	500000.0	496400.0	ug/L	-1		
Manganese	500.0000	461.0000	ug/L	-8	20	
Molybdenum	500.0000	502.0000	ug/L	0	20	
Nickel	1000.000	888.0000	ug/L	-11	20	
Selenium	500.0000	511.0000	ug/L	2	20	
Silver	1000.000	913.0000	ug/L	-9	20	
Thallium	500.0000	480.0000	ug/L	-4	20	
Titanium	20000.00	22200.00	ug/L	11		
Vanadium	500.0000	503.0000	ug/L	1	20	
Zinc	1000.000	943.0000	ug/L	-6	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74451135 Instrument: MET07 TJA Trace ICP Begun: 08-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	tr253886	CS				08-NOV-2004 06:55	1.0	1.0		1	
002	tr253887	ICV				08-NOV-2004 06:59	1.0	1.0		2	
003	tr253888	ICB				08-NOV-2004 07:11	1.0	1.0			
004	tr253889	CRI				08-NOV-2004 07:15	1.0	1.0		3	
005	tr253890	ICSA				08-NOV-2004 07:22	1.0	1.0	2	4	4:AL=506400
006	tr253891	X	500 ppm Al			08-NOV-2004 07:26	1.0				
007	tr253892	ICSA				08-NOV-2004 07:34	1.0	1.0	1	4	4:AL=507700
008	tr253893	ICSAB				08-NOV-2004 07:38	1.0	1.0		5	5:AL=516100
009	tr253894	BLANK	QC271202	96220	Wipe	08-NOV-2004 07:44	1.0	50.0	3		
010	tr253895	BS	QC271203	96220	Wipe	08-NOV-2004 07:48	1.0	50.0	3		
011	tr253896	BSD	QC271204	96220	Wipe	08-NOV-2004 07:52	1.0	50.0	3		
012	tr253897	CCV				08-NOV-2004 08:00	1.0	1.0		6	
013	tr253898	CCB				08-NOV-2004 08:08	1.0	1.0	2		
014	tr253899	SAMPLE	175547-001	96220	Wipe	08-NOV-2004 08:12	1.0	50.0			
015	tr253900	SAMPLE	175547-003	96220	Wipe	08-NOV-2004 08:16	1.0	50.0			
016	tr253901	SAMPLE	175547-005	96220	Wipe	08-NOV-2004 08:20	1.0	50.0			
017	tr253902	SAMPLE	175547-010	96220	Wipe	08-NOV-2004 08:24	1.0	50.0			
018	tr253903	SAMPLE	175547-013	96220	Wipe	08-NOV-2004 08:28	1.0	50.0			
019	tr253904	SAMPLE	175549-001	96220	Wipe	08-NOV-2004 08:32	1.0	50.0			
020	tr253905	SAMPLE	175549-002	96220	Wipe	08-NOV-2004 08:41	1.0	50.0			
021	tr253906	SAMPLE	175549-003	96220	Wipe	08-NOV-2004 08:45	1.0	50.0			
022	tr253907	SAMPLE	175832-006	96220	Wipe	08-NOV-2004 08:49	1.0	50.0			
023	tr253908	SAMPLE	175832-011	96220	Wipe	08-NOV-2004 08:53	1.0	50.0			
024	tr253909	CCV				08-NOV-2004 09:03	1.0	1.0	5	7	
025	tr253910	CCB				08-NOV-2004 09:14	1.0	1.0	1		
026	tr253911	SAMPLE	175812-001	96221	Miscel	08-NOV-2004 09:24	1.0	49.02	1		1:V=159000
027	tr253912	SAMPLE	175812-001	96221	Miscel	08-NOV-2004 09:28	20.0	49.02			
028	tr253913	SAMPLE	175812-002	96221	Miscel	08-NOV-2004 09:32	1.0	44.25	1		1:V=37500.0
029	tr253914	SAMPLE	175812-002	96221	Miscel	08-NOV-2004 09:36	2.0	44.25			
030	tr253915	CCV				08-NOV-2004 09:40	1.0	1.0		6	
031	tr253916	CCB				08-NOV-2004 09:43	1.0	1.0			

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172 10=04WS1885

Analyst: K Carlyon Date: 11/8/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74451135 Instrument: MET07 TJA Trace ICP Begun: 08-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	tr253917	BLANK	QC271205	96221	Soil	08-NOV-2004 09:47	1.0	50.0	1			
033	tr253918	BS	QC271206	96221	Soil	08-NOV-2004 09:52	1.0	50.0	1			
034	tr253919	BSD	QC271207	96221	Soil	08-NOV-2004 10:01	1.0	50.0	1			
035	tr253920	MSS	175833-002	96221	Soil	08-NOV-2004 10:06	1.0	33.56	4			4:FE=469500
036	tr253921	SER	QC271210	96221	Soil	08-NOV-2004 10:11	5.0	33.56	1			
037	tr253922	MSS	175833-002	96221	Soil	08-NOV-2004 10:15	1.0	33.56	5			4:FE=465700
038	tr253923	SER	QC271210	96221	Soil	08-NOV-2004 10:19	5.0	33.56		1		
039	tr253924	MSS	175833-002	96221	Soil	08-NOV-2004 10:23	5.0	33.56	1			
040	tr253925	SER	QC271210	96221	Soil	08-NOV-2004 10:27	25.0	33.56				
041	tr253926	CCV				08-NOV-2004 10:31	1.0	1.0			7	
042	tr253927	CCB				08-NOV-2004 10:36	1.0	1.0				
043	tr253928	PDS	QC271222	96221	Soil	08-NOV-2004 10:43	1.0	33.56			8 9	4:FE=488300
044	tr253929	MS	QC271208	96221	Soil	08-NOV-2004 10:46	1.0	34.01		1		4:FE=433700
045	tr253930	MSD	QC271209	96221	Soil	08-NOV-2004 10:51	1.0	37.31		1		4:FE=403400
046	tr253931	SAMPLE	175796-009	96221	Miscel	08-NOV-2004 10:56	1.0	44.64	1			5:AL=118100
047	tr253932	SAMPLE	175833-003	96221	Soil	08-NOV-2004 11:00	1.0	48.54				3:FE=283200
048	tr253933	SAMPLE	175833-004	96221	Soil	08-NOV-2004 11:04	1.0	39.06				3:FE=371000
049	tr253934	SAMPLE	175796-009	96221	Miscel	08-NOV-2004 11:09	2.0	44.64				1:ZN=25500.0
050	tr253935	SAMPLE	175541-006	95842	Water	08-NOV-2004 11:13	1.0	1.0				
051	tr253936	SAMPLE	175833-006	96221	Soil	08-NOV-2004 11:17	1.0	45.45				2:FE=336400
052	tr253937	SAMPLE	175732-001	96221	Soil	08-NOV-2004 11:21	1.0	33.56				4:FE=725200
053	tr253938	CCV				08-NOV-2004 11:46	1.0	1.0			6	
054	tr253939	CCB				08-NOV-2004 11:54	1.0	1.0	1			
055	tr253940	SAMPLE	175732-001	96221	Soil	08-NOV-2004 11:58	1.0	33.56				4:FE=706900
056	tr253941	SAMPLE	175732-002	96221	Soil	08-NOV-2004 12:02	1.0	40.65				4:FE=517000
057	tr253942	SAMPLE	175732-003	96221	Soil	08-NOV-2004 12:06	1.0	48.08	1			3:CA=373300
058	tr253943	SAMPLE	175732-004	96221	Soil	08-NOV-2004 12:10	1.0	40.65	1			2:FE=194600
059	tr253945	SAMPLE	175732-002	96221	Soil	08-NOV-2004 12:18	1.0	40.65				4:FE=503700
060	tr253946	SAMPLE	175732-003	96221	Soil	08-NOV-2004 12:22	1.0	48.08				3:CA=361000
061	tr253947	SAMPLE	175732-004	96221	Soil	08-NOV-2004 12:26	1.0	40.65				2:FE=199600
062	tr253948	SAMPLE	175836-001	96221	Soil	08-NOV-2004 12:31	1.0	37.04	2			3:FE=295600

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172 10=04WS1885

Analyst: K Carlyon Date: 11/8/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74451135 Instrument: MET07 TJA Trace ICP Begun: 08-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	tr253949	SAMPLE	175836-002	96221	Soil	08-NOV-2004 12:35	1.0	46.73	2		2:FE=243500
064	tr253950	SAMPLE	175836-003	96221	Soil	08-NOV-2004 12:39	1.0	40.65	2		3:FE=300000
065	tr253951	CCV				08-NOV-2004 12:49	1.0	1.0		7	
066	tr253952	CCB				08-NOV-2004 12:57	1.0	1.0	1		
067	tr253953	SAMPLE	175836-001	96221	Soil	08-NOV-2004 13:01	1.0	37.04	1		3:FE=296000
068	tr253954	SAMPLE	175836-002	96221	Soil	08-NOV-2004 13:05	1.0	46.73	1		2:FE=246300
069	tr253955	SAMPLE	175836-003	96221	Soil	08-NOV-2004 13:09	1.0	40.65	1		3:FE=288400
070	tr253956	SAMPLE	175836-004	96221	Soil	08-NOV-2004 13:13	1.0	51.02	1		2:FE=234200
071	tr253957	X	175836-005	96221	Soil	08-NOV-2004 13:17	1.0	49.02			
072	tr253958	SAMPLE	175836-006	96221	Soil	08-NOV-2004 13:21	1.0	43.48	1		5:FE=688400
073	tr253959	SAMPLE	175836-005	96221	Soil	08-NOV-2004 13:26	1.0	49.02	1		2:FE=265400
074	tr253960	SAMPLE	175836-006	96221	Soil	08-NOV-2004 13:30	1.0	43.48	1		5:FE=656700
075	tr253961	SAMPLE	175836-007	96221	Soil	08-NOV-2004 13:34	1.0	42.02	2		6:FE=883900
076	tr253962	SAMPLE	175836-007	96221	Soil	08-NOV-2004 13:39	1.0	42.02	3		6:FE=888500
077	tr253963	CCV				08-NOV-2004 14:04	1.0	1.0		6	
078	tr253964	CCB				08-NOV-2004 14:12	1.0	1.0			
079	tr253965	BLANK	QC271216	96223	Water	08-NOV-2004 14:24	1.0	1.0	1		
080	tr253966	BS	QC271217	96223	Water	08-NOV-2004 14:29	1.0	1.0	1		
081	tr253967	BSD	QC271218	96223	Water	08-NOV-2004 14:33	1.0	1.0	1		
082	tr253968	MSS	175852-001	96223	Water	08-NOV-2004 14:39	1.0	1.0	1		
083	tr253969	MS	QC271219	96223	Water	08-NOV-2004 14:43	1.0	1.0			
084	tr253970	MSD	QC271220	96223	Water	08-NOV-2004 14:48	1.0	1.0			
085	tr253971	SAMPLE	175833-001	96223	Water	08-NOV-2004 14:54	1.0	1.0			
086	tr253972	SAMPLE	175833-005	96223	Water	08-NOV-2004 14:58	1.0	1.0			
087	tr253973	ICSAB				08-NOV-2004 15:07	1.0	1.0		5	5:MG=485500
088	tr253974	CCV				08-NOV-2004 15:13	1.0	1.0		7	
089	tr253975	CCB				08-NOV-2004 15:21	1.0	1.0			
090	tr253976	SAMPLE	175836-008	96221	Soil	08-NOV-2004 15:40	1.0	40.65	1		4:FE=425200
091	tr253977	SAMPLE	175836-009	96221	Soil	08-NOV-2004 15:45	1.0	47.62	2		2:FE=242500
092	tr253978	SAMPLE	175836-008	96221	Soil	08-NOV-2004 15:50	1.0	40.65	1		4:FE=419700
093	tr253979	SAMPLE	175836-009	96221	Soil	08-NOV-2004 15:54	1.0	47.62	2		2:FE=240000

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172 10=04WS1885

Analyst: K Carlyon Date: 11/8/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74451135 Instrument: MET07 TJA Trace ICP Begun: 08-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	tr253980	SAMPLE	175836-001	96221	Soil	08-NOV-2004 15:59	10.0	37.04			
095	tr253981	SAMPLE	175836-002	96221	Soil	08-NOV-2004 16:03	10.0	46.73	1		
096	tr253982	SAMPLE	175836-003	96221	Soil	08-NOV-2004 16:07	10.0	40.65	1		
097	tr253983	SAMPLE	175836-004	96221	Soil	08-NOV-2004 16:12	10.0	51.02			
098	tr253984	SAMPLE	175836-005	96221	Soil	08-NOV-2004 16:16	10.0	49.02			
099	tr253985	SAMPLE	175836-006	96221	Soil	08-NOV-2004 16:20	10.0	43.48			
100	tr253986	CCV				08-NOV-2004 16:29	1.0	1.0		6	
101	tr253987	CCB				08-NOV-2004 16:38	1.0	1.0	1		
102	tr253988	SAMPLE	175836-007	96221	Soil	08-NOV-2004 16:44	10.0	42.02	1		1:FE=100300
103	tr253989	SAMPLE	175836-008	96221	Soil	08-NOV-2004 16:49	10.0	40.65			
104	tr253990	SAMPLE	175836-009	96221	Soil	08-NOV-2004 16:53	10.0	47.62			
105	tr253991	SAMPLE	175836-007	96221	Soil	08-NOV-2004 16:58	20.0	42.02			
106	tr253992	X	rinse			08-NOV-2004 17:04	1.0				
107	tr253993	SAMPLE	175803-001	96223	Water	08-NOV-2004 17:08	1.0	1.0			1:CA=155700
108	tr253994	SAMPLE	175806-001	96223	Water	08-NOV-2004 17:12	1.0	1.0			
109	tr253995	SAMPLE	175806-002	96223	Water	08-NOV-2004 17:17	1.0	1.0			
110	tr253996	SAMPLE	175806-003	96223	Water	08-NOV-2004 17:21	1.0	1.0			
111	tr253997	SAMPLE	175806-004	96223	Water	08-NOV-2004 17:25	1.0	1.0			
112	tr253998	SAMPLE	175807-001	96223	Water	08-NOV-2004 17:30	1.0	1.0			
113	tr253999	CCV				08-NOV-2004 17:37	1.0	1.0		10	
114	tr254000	CCB				08-NOV-2004 17:44	1.0	1.0			
115	tr254001	SAMPLE	175811-001	96223	Water	08-NOV-2004 17:48	1.0	1.0			
116	tr254002	SAMPLE	175811-002	96223	Water	08-NOV-2004 17:53	1.0	1.0			2:CA=320500
117	tr254003	SAMPLE	175811-003	96223	Water	08-NOV-2004 17:57	1.0	1.0			1:CA=139700
118	tr254004	SAMPLE	175811-006	96223	Water	08-NOV-2004 18:01	1.0	1.0			2:CA=197700
119	tr254005	SAMPLE	175826-001	96223	Water	08-NOV-2004 18:07	1.0	1.0			2:MG=238400
120	tr254006	SAMPLE	175826-002	96223	Water	08-NOV-2004 18:11	1.0	1.0			2:CA=197800
121	tr254007	SAMPLE	175826-003	96223	Water	08-NOV-2004 18:15	1.0	1.0			2:MG=241000
122	tr254008	SAMPLE	175826-004	96223	Water	08-NOV-2004 18:20	1.0	1.0			2:MG=215200
123	tr254009	SAMPLE	175826-005	96223	Water	08-NOV-2004 18:24	1.0	1.0			2:CA=112000
124	tr254010	SAMPLE	175826-001	96223	Water	08-NOV-2004 18:29	1.0	1.0			2:MG=138200

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172 10=04WS1885

Analyst: K Carlyn Date: 11/8/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74451135 Instrument: MET07 TJA Trace ICP Begun: 08-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
125	tr254011	CCV				08-NOV-2004 18:36	1.0	1.0		6	
126	tr254012	CCB				08-NOV-2004 18:48	1.0	1.0	1		
127	tr254013	SAMPLE	175826-006	96223	Water	08-NOV-2004 18:54	1.0	1.0			2:CA=216200
128	tr254014	SAMPLE	175826-006	96223	Water	08-NOV-2004 18:59	1.0	1.0			2:CA=211700
129	tr254015	SAMPLE	175835-007	96223	Water	08-NOV-2004 19:03	1.0	1.0			2:FE=222900
130	tr254016	ICSAB				08-NOV-2004 19:08	1.0	1.0		5	5:MG=496400
131	tr254017	CCV				08-NOV-2004 19:15	1.0	1.0	1	7	
132	tr254018	CCB				08-NOV-2004 19:23	1.0	1.0			

136

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04WS2067 7=04WS2007 8=04SS171 9=04SS172 10=04WS1885

Analyst: K Carlyon Date: 11/8/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 175836 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	MO	NI	SE	AG	TL	V	ZN
175836-001	MET07	11/08/04 12:31	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+
175836-001	MET07	11/08/04 13:01	1.0										+								
175836-001	MET07	11/08/04 15:59	10.0									+									
175836-002	MET07	11/08/04 12:35	1.0	+	+	+		+	+	+	+			+	+	+	+	+	+	+	+
175836-002	MET07	11/08/04 13:05	1.0				+						+								
175836-002	MET07	11/08/04 16:03	10.0									+									
175836-003	MET07	11/08/04 12:39	1.0	+	+	+		+	+	+	+			+	+	+	+	+	+	+	+
175836-003	MET07	11/08/04 13:09	1.0				+						+								
175836-003	MET07	11/08/04 16:07	10.0									+									
175836-004	MET07	11/08/04 13:13	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
175836-004	MET07	11/08/04 16:12	10.0									+									
175836-005	MET07	11/08/04 13:26	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
175836-005	MET07	11/08/04 16:16	10.0									+									
175836-006	MET07	11/08/04 13:21	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
175836-006	MET07	11/08/04 13:30	1.0																		
175836-006	MET07	11/08/04 16:20	10.0									+									
175836-007	MET07	11/08/04 13:34	1.0	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+
175836-007	MET07	11/08/04 13:39	1.0										+								
175836-007	MET07	11/08/04 16:44	10.0											+							
175836-007	MET07	11/08/04 16:58	20.0									+									
175836-008	MET07	11/08/04 15:40	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
175836-008	MET07	11/08/04 15:50	1.0																		
175836-008	MET07	11/08/04 16:49	10.0									+									
175836-009	MET07	11/08/04 15:45	1.0	+		+	+		+	+	+		+	+	+	+	+	+	+	+	+
175836-009	MET07	11/08/04 15:54	1.0		+			+													
175836-009	MET07	11/08/04 16:53	10.0									+									
QC271205	MET07	11/08/04 09:47	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271206	MET07	11/08/04 09:52	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271207	MET07	11/08/04 10:01	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271208	MET07	11/08/04 10:46	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271209	MET07	11/08/04 10:51	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271210	MET07	11/08/04 10:11	5.0	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC271210	MET07	11/08/04 10:19	5.0		+																
QC271210	MET07	11/08/04 10:27	25.0									+									

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 175836 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	MO	NI	SE	AG	TL	V	ZN
QC271222	MET07	11/08/04 10:43	1.0	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+

Curtis & Tompkins Laboratories Sample Preparation Summary 08-NOV-2004 09:02

Batch Number : 96221
Date Extracted: 07-NOV-2004
Extracted by : Victor Vergara
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175732-001		LFR Levine Fricke	Soil	1.49	g	50	33.557047	1					T26/ICP		
175732-002		LFR Levine Fricke	Soil	1.23	g	50	40.650407	1					T26/ICP		
175732-003		LFR Levine Fricke	Soil	1.04	g	50	48.076923	1					T26/ICP		
175732-004		LFR Levine Fricke	Soil	1.23	g	50	40.650407	1					T26/ICP		
175796-009		LFR Levine Fricke	Miscell.	1.12	g	50	44.642857	1					PB		
175812-001		ConocoPhillips Company	Miscell.	1.02	g	50	49.019608	1					V		
175812-002		ConocoPhillips Company	Miscell.	1.13	g	50	44.247788	1					V		
175833-002		Presidio Trust	Soil	1.49	g	50	33.557047	1					PB		mss
175833-003		Presidio Trust	Soil	1.03	g	50	48.543689	1					PB		
175833-004		Presidio Trust	Soil	1.28	g	50	39.062500	1					PB		
175833-006		Presidio Trust	Soil	1.1	g	50	45.454545	1					PB		
175836-001		Treadwell & Rollo	Soil	1.35	g	50	37.037037	1					T26/ICP		
175836-002		Treadwell & Rollo	Soil	1.07	g	50	46.728972	1					T26/ICP		
175836-003		Treadwell & Rollo	Soil	1.23	g	50	40.650407	1					T26/ICP		
175836-004		Treadwell & Rollo	Soil	.98	g	50	51.020408	1					T26/ICP		
175836-005		Treadwell & Rollo	Soil	1.02	g	50	49.019608	1					T26/ICP		
175836-006		Treadwell & Rollo	Soil	1.15	g	50	43.478261	1					T26/ICP		
175836-007		Treadwell & Rollo	Soil	1.19	g	50	42.016807	1					T26/ICP		
175836-008		Treadwell & Rollo	Soil	1.23	g	50	40.650407	1					T26/ICP		
175836-009		Treadwell & Rollo	Soil	1.05	g	50	47.619048	1					T26/ICP		
QC271205	BLANK		Soil	1	g	50	50.000000	1					ICAP		
QC271206	BS		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC271207	BSD		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC271208	MS	of 175833-002	Soil	1.47	g	50	34.013605	1		.5	.5		ICAP		
QC271209	MSD	of 175833-002	Soil	1.34	g	50	37.313433	1		.5	.5		ICAP		
QC271210	SER	of 175833-002	Soil	1.49	g	50	33.557047	1					ICAP		
QC271222	PDS	of 175833-002	Soil	1.49	g	50	33.557047	1					ICAP		

Prep Chemist: for VV Reviewed By: _____ Date: 11/08/04

Relinquished By: for VV Received By: _____ Date: 11/08/04

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 96221
Date Digested: 11/7/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 2025
Page 12

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLKQC 271215		Ø	50.0	Y	
*	BS 271216		↓	↓	↓	
*	BSD 271217		↓	↓	↓	
*	175833-002MS	A	1.47	↓	↓	
*	-002MSD	↓	1.34	↓	↓	
	175732-001	A	1.49	↓	↓	
	-002	↓	1.23	↓	↓	
	-003	↓	1.04	↓	↓	
	-004	↓	1.23	↓	↓	
10	175796-009	A	1.12	↓	↓	
	175812-001		1.02	↓	↓	comp 3 yrs.
	-002		1.13	↓	↓	↓
	175833-002	A	1.49	↓	↓	MSS
	003	↓	1.03	↓	↓	
15	004	↓	1.28	↓	↓	
	005	↓	1.10	↓	↓	
	175836-001	A	1.35	↓	↓	
	-002	↓	1.07	↓	↓	
	-003	↓	1.23	↓	↓	
20	-004	↓	0.98	↓	↓	
	-005	↓	1.02	↓	↓	
	-006	↓	1.15	↓	↓	
	-007	↓	1.19	↓	↓	
	-008	↓	1.23	↓	↓	
	* -009	↓	1.05	↓	↓	

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	W 11/7/04
0.5 mL of spike solution was added to all spikes	045171 *	↓
	045172 *	↓
1:1 HNO3	A2704S-101504	↓
concentrated HNO3	A26032- JTBaker	↓
3mL 30% hydrogen peroxide	44138425 VWR	↓
concentrated HCl	A33046- JTBaker	↓
☒ filtered thru' Whatman # 541	E1S66057	↓

11/7/04
Extraction Chemist / Date

Continued from page Ø
Continued on page Ø

11/08/04
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050B

Analyte	Units	MET01	MET07	MET08 A	MET08 R
Aluminum	mg/Kg	07/26/04 1.5	07/21/04 0.52		09/10/04 1.3
Antimony	mg/Kg	07/20/04 1.3	07/21/04 0.20	09/10/04 0.076	
Arsenic	mg/Kg	07/26/04 2.8	07/20/04 0.10	09/10/04 0.10	
Barium	mg/Kg	07/27/04 0.098	07/21/04 0.013		09/10/04 0.033
Beryllium	mg/Kg	07/20/04 0.029	07/21/04 0.0063	09/10/04 0.0056	
Cadmium	mg/Kg	07/20/04 0.14	07/21/04 0.028	09/10/04 0.0076	
Calcium	mg/Kg	07/26/04 2.8	07/21/04 0.58		09/10/04 1.5
Chromium	mg/Kg	07/20/04 0.29	07/21/04 0.033	09/10/04 0.013	
Cobalt	mg/Kg	07/20/04 0.39	07/21/04 0.076	09/10/04 0.0087	
Copper	mg/Kg	07/20/04 0.11	07/21/04 0.057	09/10/04 0.069	
Iron	mg/Kg	07/20/04 1.5	07/21/04 0.80		09/10/04 0.33
Lead	mg/Kg	07/26/04 7.9	07/20/04 0.065	09/10/04 0.078	
Magnesium	mg/Kg	07/20/04 1.5	07/21/04 0.52		09/10/04 1.2
Manganese	mg/Kg	07/20/04 0.11	07/20/04 0.11		09/10/04 0.023
Molybdenum	mg/Kg	07/20/04 0.43	07/21/04 0.062	09/10/04 0.032	
Nickel	mg/Kg	07/20/04 0.64	07/21/04 0.067	09/10/04 0.017	
Potassium	mg/Kg	07/27/04 18			09/17/04 3.7
Selenium	mg/Kg	07/27/04 8.1	07/21/04 0.17	09/10/04 0.18	
Silver	mg/Kg	07/26/04 0.18	07/21/04 0.098	09/10/04 0.032	
Sodium	mg/Kg	07/26/04 2.8			09/17/04 3.2
Thallium	mg/Kg	07/26/04 9.5	07/21/04 0.21	09/10/04 0.17	
Vanadium	mg/Kg	07/20/04 0.14	07/21/04 0.045	09/10/04 0.039	
Zinc	mg/Kg	07/20/04 0.17	07/21/04 0.17		09/10/04 0.091
Boron	mg/Kg	07/27/04 3.1		09/17/04 0.32	
Tin	mg/Kg	07/26/04 1.0		09/17/04 0.085	
Titanium	mg/Kg	07/26/04 0.099			09/17/04 0.068

MOISTURE DATA

Percent Moisture Summary Report

Batch: 96243
Date: 11/09/04
Method: CLP SOW 390
Analyst: PPS

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
175798-001	11.1526	16.0585	15.9188	97	3
175836-001	15.7168	23.9927	23.7368	97	3
175836-002	15.5950	22.6811	22.0935	92	8
175836-003	15.3437	22.1209	21.5551	92	8
175836-004	15.6926	23.6843	22.9705	91	9
175836-005	15.3996	22.4398	22.1255	96	4
175836-006	15.3665	22.4270	21.8013	91	9
175836-007	15.1868	21.8213	21.3840	93	7
175836-008	15.2392	22.2599	22.0517	97	3
175836-009	11.1000	17.3947	17.2487	98	2
QC271292	10.9597	17.3245	17.1358	97	3
of 175836-001			RPD:	0.1%	4.2%

11/08/04 B# 96243

Sample#	B&Dish #	Tare wt (gm)	Init wt (gm)	Final wt (gm)	Comments
Blank	B110	11.0950	~~17.4009~~	11.0941	
175B36 1 A	6X	15.7168	23.9927	23.7368	
2	13X	15.5950	22.6811	22.0935	
3	4C	15.3437	22.1209	21.5551	
4	3Y	15.6926	23.6843	22.9705	
5	Morris	15.3996	22.4398	22.1255	
6	I2	15.3665	22.4270	21.8013	
7	XXX	18.1868	21.8213	21.3840	
8	7X	15.2392	22.2599	22.0517	
9	B121	11.1000	17.3947	17.2487	
1 Dup.	B118	10.9597	17.3245	17.1358	
175798 - 1 A	IV	11.1526	16.0585	15.9188	

Oven temp: 113°C
Time in: 1:00 PM 11/08/04
Time out: ~~12.45~~ PM 9 - ~~AOV~~, OY
11.45 PM PRS 11/9

Continued on Page

Read and Understood By

Signed 11/08/04 Date Signed 11/9/04 Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 96243
Date Started: 08-NOV-2004
Batched by : Morris Luong Tran

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
175798-001		Tetra Tech FW	Soil	MOISTURE	11-NOV-2004
175836-001		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-002		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-003		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-004		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-005		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-006		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-007		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-008		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
175836-009		Treadwell & Rollo	Soil	MOISTURE	09-NOV-2004
QC271292	SDUP of 175836-001		Soil	MOISTURE	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 175838

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX139[0.5]	175838-001
TB110504A	175838-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 12/13/04
Operations Manager

Signature: _____ Date: 12/13/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	175838
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/05/04
Samples Received:	11/05/04

This hardcopy data package contains sample and QC results for one soil sample and one water sample, requested for the above referenced project on 11/05/04. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):
High response was observed for motor oil C24-C36 in the CCV analyzed 11/09/04 22:19; this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
Low response was observed for vinyl chloride in the ICV analyzed 11/03/04 12:38; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
High response was observed for benzoic acid in the ICV analyzed 11/04/04 19:01; this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Pesticides (EPA 8081A):
Low response was observed for 4,4'-DDT in the CCV analyzed 11/10/04 00:35; average CCV drift met method requirements. No other analytical problems were encountered.

Chlorinated Herbicides (EPA 8151):
APCL in Chino, CA performed the analysis. Please see the APCL case narrative.

PCBs (EPA 8082):
Matrix spikes were not analyzed for this analysis because the parent sample required a dilution that would have diluted out the spikes. The sample spiked was not from this site. No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
Low recoveries were observed for cobalt, chromium, and antimony in the MS/MSD for batch 96263; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. Response exceeding the instrument's linear ranges were observed for iron and zinc in the MS/MSD for batch 96263. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	175838
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/05/04
Samples Received:	11/05/04

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

175838

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2993.12
Project Manager\Contact: Sunda Rivas
Samplers: Mike Chamberlain (MC)
Recorder (Signature Required):

Turnaround Time: 24 hr*

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Metals	PCB	Pesticides	VOCs	SVOCs	Mercury	Chlor. Herb.	TPH	TNTs				Silica gel clean-up	Hold	Remarks
N/A B33EX137 [2.5]	11/5/04	0753		X						1		X	X	X												
B33EX138 [0.5]		0756		X						1		X	X	X												
—1 B33EX139 [2.5]		0759		X						1		X	X	X	X	X	X	X	X	X				X		*5 day TAT
N/A B33EX143 [0.5]		1333		X						1		X	X	X												
BWP11/5/04A		1334		X						1		X	X	X												
B33EX140 [0.5]		1338		X						1		X	X	X												
B33EX141 [2.5]		1342		X						1		X	X	X												
B33EX141 [5.5]		1345		X						1		X	X	X												
B33EX142 [0.5]		1348		X						1		X	X	X												
B33EX144 [0.5]		1353		X						1		X	X	X												
TB11/05/04A	11/05/04	1400		X			2			HCL					X											

Sample all tubes filled to 8 ml

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/05/04	1422	Tony Fus	11/5/04	1422
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: *RECEIVED ON ICE

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002243

5

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 175838 Date Received: 11-5-04 Number of Coolers: 1
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 11-5-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES (NO)
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: Cold - no temp blank

B. Login Phase
Date Logged In: 11-5-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Describe type of packing in cooler: In ziploc bags under ice
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3EX139[0.5]	Sampled:	11/05/04
Matrix:	Soil	Received:	11/05/04
Units:	mg/Kg	Prepared:	11/08/04
Diln Fac:	1.000	Analyzed:	11/09/04
Batch#:	96262		

Type:	SAMPLE	Basis:	dry
Lab ID:	175838-001	Moisture:	4%

Analyte	Result	RL
Diesel C12-C24	ND	1.0
Motor Oil C24-C36	ND	5.2

Surrogate	%REC	Limits
Hexacosane	109	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC271350	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	92	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC271351	Batch#:	96262
Matrix:	Soil	Prepared:	11/08/04
Units:	mg/Kg	Analyzed:	11/09/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	50.12	49.61	99	65-135

Surrogate	%REC	Limits
Hexacosane	79	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	96262
MSS Lab ID:	175873-009	Sampled:	11/08/04
Matrix:	Soil	Received:	11/08/04
Units:	mg/Kg	Prepared:	11/08/04
Basis:	as received	Analyzed:	11/10/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC271352

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<0.4200	49.54	42.33	85	65-135

Surrogate	%REC	Limits
Hexacosane	99	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC271353

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	49.97	43.97	88	65-135	3	35

Surrogate	%REC	Limits
Hexacosane	102	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646001 Name: Diesel Type: (normal) Date: 02-NOV-2004 13:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a005	114442646005	dsl10	02-NOV-2004 13:24	04WS1748
2	307a006	114442646006	dsl100	02-NOV-2004 13:53	04WS1747
3	307a007	114442646007	dsl250	02-NOV-2004 14:22	04WS1746
4	307a008	114442646008	dsl500	02-NOV-2004 14:52	04WS1745
5	307a009	114442646009	dsl1000	02-NOV-2004 15:21	04WS1744
6	307a010	114442646010	dsl2500	02-NOV-2004 15:50	04WS1743
7	307a011	114442646011	dsl5000	02-NOV-2004 16:20	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	15703	21420	21986	21042	22133	23049	22662	AVRG R		4.730E-5		mg/L	21142	12	0.995	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC11A Calname : Diesel
Calnum : 114442646001 Caldate : 02-NOV-2004 Caltype :

ICV 114442646028 (307a028) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	114442646028	03-NOV-2004	500.00	504.32	mg/L	1

INITIAL CALIBRATION REPORT FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG R		5.502E-5		mg/L	18175	7	0.995	20	

13

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646003 Name: Hexacosane Type: (normal) Date: 02-NOV-2004 20:43 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a020	114442646020	hex5	02-NOV-2004 20:43	04WS2042
2	307a021	114442646021	hex10	02-NOV-2004 21:13	04WS2043
3	307a022	114442646022	hex25	02-NOV-2004 21:42	04WS2044
4	307a023	114442646023	hex50	02-NOV-2004 22:11	04WS2045
5	307a024	114442646024	hex75	02-NOV-2004 22:40	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Hexacosane	27104	25613	26493	26682	26832	AVRG R		3.767E-5		mg/L	26545	2	0.995	20	

14

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MCH
Calnum: 174303334001 Name: Diesel Type: (normal) Date: 28-JUL-2004 16:02 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	210a002	174303334002	dsl	28-JUL-2004 16:02	04WS1223
2	210a003	174303334003	dsl	28-JUL-2004 16:30	04WS1222
3	210a004	174303334004	dsl	28-JUL-2004 16:59	04WS1221
4	210a005	174303334005	dsl	28-JUL-2004 17:27	04WS1220
5	210a006	174303334006	dsl	28-JUL-2004 17:56	04WS1219
6	210a007	174303334007	dsl	28-JUL-2004 18:24	04WS1218
7	210a015	174303334015	dsl5000	29-JUL-2004 09:35	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Diesel C12-C24	17098	26436	26534	25167	27843	25485	25731	AVRG R		4.016E-5		mg/L	24899	14	0.995	20	

15

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC17A Calname : Diesel
Calnum : 174303334001 Caldate : 28-JUL-2004 Caltype :

ICV 174303334017 (210a017) standards: 04WS0983

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	174303334017	29-JUL-2004	500.00	495.91	mg/L	-1

INITIAL CALIBRATION REPORT FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MCH
Calnum: 174333230001 Name: Hexacosane Type: (normal) Date: 19-AUG-2004 17:49 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	231a050	174333230050	hex	19-AUG-2004 17:49	04WS0533
2	231a051	174333230051	hex	19-AUG-2004 18:18	04WS0534
3	231a052	174333230052	hex	19-AUG-2004 18:46	04WS0535
4	231a053	174333230053	hex	19-AUG-2004 19:15	04WS0536
5	231a054	174333230054	hex	19-AUG-2004 19:44	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	29376	31371	32624	33992	36192	AVRG R		3.057E-5		mg/L	32711	8	0.995	20	

17

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MCH
Calnum: 174451343001 Name: Motor Oil Type: (normal) Date: 08-NOV-2004 21:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	313a013	174451343013	mo50	08-NOV-2004 21:24	04WS1208
2	313a014	174451343014	mo250	08-NOV-2004 21:53	04WS1209
3	313a015	174451343015	mo500	08-NOV-2004 22:21	04WS1210
4	313a016	174451343016	mo1000	08-NOV-2004 22:50	04WS1211
5	313a017	174451343017	mo2500	08-NOV-2004 23:18	04WS1212
6	313a018	174451343018	mo5000	08-NOV-2004 23:47	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	17094	17628	18152	17768	15228	13704	AVRG R		6.026E-5		mg/L	16596	11	0.995	20	

18

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

MCD 11/11/04

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114449888003	07-NOV-2004 11:07	114442646001	02-NOV-2004	21142	22494	500.00	531.97	mg/L	6	15	NA
GC11A	A	114449888015	07-NOV-2004 16:57	114442646001	02-NOV-2004	21142	22349	1000.0	1057.1	mg/L	6	15	NA
GC11A	A	114449888022	07-NOV-2004 20:21	114442646001	02-NOV-2004	21142	23123	250.00	273.42	mg/L	9	15	NA
GC11A	A	114452687004	09-NOV-2004 10:15	114442646001	02-NOV-2004	21142	21822	500.00	516.07	mg/L	3	15	
GC11A	A	114452687018	09-NOV-2004 17:56	114442646001	02-NOV-2004	21142	22700	1000.0	1073.7	mg/L	7	15	
GC11A	A	114452687030	10-NOV-2004 01:14	114442646001	02-NOV-2004	21142	23221	250.00	274.58	mg/L	10	15	
GC17A	A	174452910004	09-NOV-2004 14:15	174303334001	28-JUL-2004	24899	23494	500.00	471.79	mg/L	-6	15	
GC17A	A	174452910011	09-NOV-2004 21:51	174303334001	28-JUL-2004	24899	23375	1000.0	938.81	mg/L	-6	15	
GC17A	A	174452910025	10-NOV-2004 04:31	174303334001	28-JUL-2004	24899	23459	250.00	235.54	mg/L	-6	15	
GC17A	A	174452910041	10-NOV-2004 12:08	174303334001	28-JUL-2004	24899	25531	500.00	512.69	mg/L	3	15	

CONTINUING CALIBRATION SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

mdx 11/11/04

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114449888004	07-NOV-2004 11:36	114442646002	02-NOV-2004	18175	16061	500.00	441.84	mg/L	-12	15	> NA
GC11A	A	114449888017	07-NOV-2004 17:55	114442646002	02-NOV-2004	18175	16440	500.00	452.25	mg/L	-10	15	
GC11A	A	114452687003	09-NOV-2004 09:45	114442646002	02-NOV-2004	18175	16432	500.00	452.06	mg/L	-10	15	
GC11A	A	114452687017	09-NOV-2004 17:26	114442646002	02-NOV-2004	18175	18835	500.00	518.16	mg/L	4	15	
GC17A	A	174452910005	09-NOV-2004 14:54	174451343001	08-NOV-2004	16596	18156	500.00	547.00	mg/L	9	15	
GC17A	A	174452910012	09-NOV-2004 22:19	174451343001	08-NOV-2004	16596	20097	500.00	605.48	mg/L	21	15	c+ ***

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

mas 11/11/04

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114449888003	07-NOV-2004 11:07	114442646003	02-NOV-2004	26545	29339	50.000	55.263	mg/L	11	15	NA
GC11A	A	114449888015	07-NOV-2004 16:57	114442646003	02-NOV-2004	26545	27351	50.000	51.519	mg/L	3	15	
GC11A	A	114449888022	07-NOV-2004 20:21	114442646003	02-NOV-2004	26545	26076	50.000	49.117	mg/L	-2	15	
GC11A	A	114452687003	09-NOV-2004 09:45	114442646003	02-NOV-2004	26545	25278	50.000	47.615	mg/L	-5	15	
GC11A	A	114452687014	09-NOV-2004 15:59	114442646003	02-NOV-2004	26545	29409	50.000	55.395	mg/L	11	15	
GC11A	A	114452687017	09-NOV-2004 17:26	114442646003	02-NOV-2004	26545	29621	50.000	55.795	mg/L	12	15	
GC11A	A	114452687030	10-NOV-2004 01:14	114442646003	02-NOV-2004	26545	29052	50.000	54.723	mg/L	9	15	
GC17A	A	174452910004	09-NOV-2004 14:15	174333230001	19-AUG-2004	32711	31610	50.000	48.317	mg/L	-3	15	
GC17A	A	174452910011	09-NOV-2004 21:51	174333230001	19-AUG-2004	32711	31352	50.000	47.923	mg/L	-4	15	
GC17A	A	174452910025	10-NOV-2004 04:31	174333230001	19-AUG-2004	32711	30913	50.000	47.252	mg/L	-5	15	
GC17A	A	174452910041	10-NOV-2004 12:08	174333230001	19-AUG-2004	32711	33661	50.000	51.452	mg/L	3	15	

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174303334 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 28-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	210a001	X	ib			28-JUL-2004 15:34	1.0						
002	210a002	ICAL	dsl			28-JUL-2004 16:02	1.0					1	
003	210a003	ICAL	dsl			28-JUL-2004 16:30	1.0					2	
004	210a004	ICAL	dsl			28-JUL-2004 16:59	1.0					3	
005	210a005	ICAL	dsl			28-JUL-2004 17:27	1.0					4	
006	210a006	ICAL	dsl			28-JUL-2004 17:56	1.0					5	
007	210a007	ICAL	dsl			28-JUL-2004 18:24	1.0					6	
008	210a008	ICAL	dsl			28-JUL-2004 18:52	1.0					7	
009	210a009	X	ib			28-JUL-2004 19:21	1.0						
010	210a010	ICV	dsl			28-JUL-2004 19:49	1.0					8	
011	210a011	X	ib			28-JUL-2004 20:17	1.0						
012	210a012	CCV	dsl			28-JUL-2004 20:45	1.0					9	
013	210a013	CCV	mo			28-JUL-2004 21:13	1.0					10	
014	210a014	X	ib			29-JUL-2004 09:07	1.0						
015	210a015	ICAL	dsl5000			29-JUL-2004 09:35	1.0					7	
016	210a016	X	ib			29-JUL-2004 10:43	1.0						
017	210a017	ICV	dsl			29-JUL-2004 11:17	1.0		3			8	

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS0983 9=04WS1144 10=04WS1249

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174333230 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 18-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	231a001	X	primer			18-AUG-2004 09:50	1.0						
002	231a002	X	ib			18-AUG-2004 10:19	1.0						
003	231a003	CCV	dsl			18-AUG-2004 10:47	1.0	1.0			3	1	
004	231a004	CCV	mo			18-AUG-2004 11:16	1.0	1.0			3	2	
005	231a005	BLANK	QC261505 S	93824	Soil	18-AUG-2004 12:19	1.0	0.1006	6		3		
006	231a006	SAMPLE	174034-001 S	93824	Soil	18-AUG-2004 12:48	1.0	0.1008			3		
007	231a007	SAMPLE	174034-002 S	93824	Soil	18-AUG-2004 13:17	1.0	0.09974			3		
008	231a008	LCS	QC261506 S	93824	Soil	18-AUG-2004 14:00	1.0	0.09954			3		
009	231a009	CCV	dsl			18-AUG-2004 14:29	1.0	1.0			3	3	
010	231a010	CCV	mo			18-AUG-2004 14:57	1.0	1.0			3	2	
011	231a011	SAMPLE	173627-006	93784	Water	18-AUG-2004 17:36	1.0	0.005	2		3	sh	
012	231a012	SAMPLE	174023-004	93824	Soil	18-AUG-2004 18:05	1.0	0.1001			3		
013	231a013	SAMPLE	174001-001 S	93824	Soil	18-AUG-2004 18:33	1.0	0.1006	1		3		11:BUNKC:=25805.9
014	231a014	X	ib			18-AUG-2004 19:02	1.0						
015	231a015	SAMPLE	174001-006 S	93824	Soil	18-AUG-2004 19:31	2.0	0.09915	1		3		11:BUNKC:=23232.1
016	231a016	MSS	174001-008 S	93824	Soil	18-AUG-2004 19:59	1.0	0.1004	17	1	3		15:BUNKC:=41549.9
017	231a017	X	ib			18-AUG-2004 20:28	1.0						
018	231a018	SAMPLE	174001-007 S	93824	Soil	18-AUG-2004 20:57	10.0	0.1007	1		3		11:BUNKC:=26469.0
019	231a019	SAMPLE	174001-002 S	93824	Soil	18-AUG-2004 21:26	5.0	0.09968	1		3		11:BUNKC:=24429.4
020	231a020	X	ib			18-AUG-2004 21:54	1.0						
021	231a021	SAMPLE	174001-004 S	93824	Soil	18-AUG-2004 22:23	10.0	0.1001	1		3		11:BUNKC:=23511.6
022	231a022	SAMPLE	174001-005 S	93824	Soil	18-AUG-2004 22:52	10.0	0.09907	1		3		11:BUNKC:=18609.9
023	231a023	X	ib			18-AUG-2004 23:21	1.0						
024	231a024	SAMPLE	174001-003 S	93824	Soil	18-AUG-2004 23:49	10.0	0.09982	1		3		12:BUNKC:=31585.0
025	231a025	CCV	dsl			19-AUG-2004 00:18	1.0	1.0			3	4	
026	231a026	X	dsl			19-AUG-2004 00:47	1.0					4	
027	231a027	CCV	mo			19-AUG-2004 01:15	1.0	1.0			3	2	
028	231a028	CCV	hyfl			19-AUG-2004 01:44	1.0	1.0			3	5	
029	231a029	BLANK	QC261610 S	93849	Soil	19-AUG-2004 02:12	1.0	0.1006	5		3		
030	231a030	SAMPLE	174010-012 S	93849	Soil	19-AUG-2004 02:41	1.0	0.1006	2	1	3		11:BUNKC:=28335.4

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277 5=04WS1014 6=04WS0533 7=04WS0534 8=04WS0535 9=04WS0536 10=04WS0537
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174333230 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 18-AUG-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
031	231a031	SAMPLE	174010-014 S	93849	Soil	19-AUG-2004 03:10	1.0	0.09942	3		
032	231a032	SAMPLE	174010-030 S	93849	Soil	19-AUG-2004 03:38	1.0	0.1001	3		
033	231a033	SAMPLE	174010-031 S	93849	Soil	19-AUG-2004 04:07	1.0	0.1007	3		
034	231a034	SAMPLE	174010-032 S	93849	Soil	19-AUG-2004 04:36	1.0	0.09998	3		
035	231a035	SAMPLE	174010-033 S	93849	Soil	19-AUG-2004 05:04	1.0	0.1001	3	2:BUNKC:=7244.51	
036	231a036	SAMPLE	174010-034 S	93849	Soil	19-AUG-2004 05:33	1.0	0.1009	3		
037	231a037	SAMPLE	174010-035 S	93849	Soil	19-AUG-2004 06:02	5.0	0.1009	3		
038	231a038	SAMPLE	174010-036 S	93849	Soil	19-AUG-2004 06:30	1.0	0.09984	3		
039	231a039	X	ccv			19-AUG-2004 06:59	1.0			1	
040	231a040	CCV	dsl			19-AUG-2004 07:28	1.0	1.0	3	1	
041	231a041	CCV	mo			19-AUG-2004 07:56	1.0	1.0	3	2	
042	231a042	CCV	hyfl			19-AUG-2004 08:25	1.0	1.0	3	5	
043	231a043	SAMPLE	174010-012 S	93849	Soil	19-AUG-2004 10:44	10.0	0.1006	3		
044	231a044	SAMPLE	174023-006	93824	Soil	19-AUG-2004 11:12	10.0	0.09932	3	2:BUNKC:=7777.21	
045	231a045	X,CCV	dsl			19-AUG-2004 13:31	1.0	1.0	3	3	
046	231a046	CCV	mo			19-AUG-2004 14:00	1.0	1.0	3	2	
047	231a047	CCV	hyfl			19-AUG-2004 14:28	1.0	1.0	3	5	
048	231a048	CCV	dsl			19-AUG-2004 14:57	1.0	1.0	3	3	
049	231a049	X	ib			19-AUG-2004 17:21	1.0				
050	231a050	ICAL	hex			19-AUG-2004 17:49	1.0	1.0		6	
051	231a051	ICAL	hex			19-AUG-2004 18:18	1.0	1.0		7	
052	231a052	ICAL	hex			19-AUG-2004 18:46	1.0	1.0		8	
053	231a053	ICAL	hex			19-AUG-2004 19:15	1.0	1.0		9	
054	231a054	ICAL	hex			19-AUG-2004 19:44	1.0	1.0		10	
055	231a055	X	ib			19-AUG-2004 20:12	1.0				

Stds used: 1=04WS1410 2=04WS1425 3=04WS1324 4=04WS1277 5=04WS1014 6=04WS0533 7=04WS0534 8=04WS0535 9=04WS0536 10=04WS0537
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114442646 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 02-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	307a001	X	primer			02-NOV-2004 09:26	1.0							
002	307a002	X	ib			02-NOV-2004 09:55	1.0							
003	307a003	CCV	dsl			02-NOV-2004 10:24	1.0	6		3			1	
004	307a004	CCV	mo			02-NOV-2004 10:54	1.0	4		3			2	
005	307a005	ICAL	dsl10			02-NOV-2004 13:24	1.0						3	
006	307a006	ICAL	dsl100			02-NOV-2004 13:53	1.0						4	
007	307a007	ICAL	dsl250			02-NOV-2004 14:22	1.0						5	
008	307a008	ICAL	dsl500			02-NOV-2004 14:52	1.0						6	
009	307a009	ICAL	dsl1000			02-NOV-2004 15:21	1.0						7	
010	307a010	ICAL	dsl2500			02-NOV-2004 15:50	1.0						8	
011	307a011	ICAL	dsl5000			02-NOV-2004 16:20	1.0						9	
012	307a012	X	ib			02-NOV-2004 16:49	1.0							
013	307a013	ICAL	mo50			02-NOV-2004 17:19	1.0						10	
014	307a014	ICAL	mo250			02-NOV-2004 17:48	1.0						11	
015	307a015	ICAL	mo500			02-NOV-2004 18:17	1.0						12	
016	307a016	ICAL	mo1000			02-NOV-2004 18:46	1.0						13	
017	307a017	ICAL	mo2500			02-NOV-2004 19:16	1.0						14	
018	307a018	ICAL	mo5000			02-NOV-2004 19:45	1.0						15	
019	307a019	X	ib			02-NOV-2004 20:14	1.0							
020	307a020	ICAL	hex5			02-NOV-2004 20:43	1.0						16	
021	307a021	ICAL	hex10			02-NOV-2004 21:13	1.0						17	
022	307a022	ICAL	hex25			02-NOV-2004 21:42	1.0						18	
023	307a023	ICAL	hex50			02-NOV-2004 22:11	1.0						19	
024	307a024	ICAL	hex75			02-NOV-2004 22:40	1.0						20	
025	307a025	X	ib			02-NOV-2004 23:09	1.0							
026	307a026	CCV	dsl			02-NOV-2004 23:39	1.0			3			1	
027	307a027	CCV	mo			03-NOV-2004 00:08	1.0			3			2	
028	307a028	ICV	dsl500			03-NOV-2004 00:38	1.0			3			21	

Stds used: 1=04WS1975 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS1208 11=04WS1209 12=04WS1210 13=04WS1211 14=04WS1212 15=04WS1012 16=04WS2042 17=04WS2043 18=04WS2044 19=04WS2045 20=04WS2046 21=04WS2006

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174451343 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 08-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	313a001	X	primer			08-NOV-2004 10:23	1.0						
002	313a002	X	ib			08-NOV-2004 14:02	1.0						
003	313a003	ICAL	dsl10			08-NOV-2004 16:38	1.0					1	
004	313a004	ICAL	dsl100			08-NOV-2004 17:07	1.0					2	
005	313a005	ICAL	dsl250			08-NOV-2004 17:35	1.0					3	
006	313a006	ICAL	dsl500			08-NOV-2004 18:04	1.0					4	
007	313a007	ICAL	dsl1000			08-NOV-2004 18:33	1.0					5	
008	313a008	ICAL	dsl2500			08-NOV-2004 19:01	1.0					6	
009	313a009	ICAL	dsl5000			08-NOV-2004 19:30	1.0					7	
010	313a010	X	ib			08-NOV-2004 19:58	1.0						
011	313a011	ICV	dsl			08-NOV-2004 20:27	1.0					8	
012	313a012	X	ib			08-NOV-2004 20:55	1.0						
013	313a013	ICAL	mo50			08-NOV-2004 21:24	1.0					9	
014	313a014	ICAL	mo250			08-NOV-2004 21:53	1.0					10	
015	313a015	ICAL	mo500			08-NOV-2004 22:21	1.0					11	
016	313a016	ICAL	mo1000			08-NOV-2004 22:50	1.0					12	
017	313a017	ICAL	mo2500			08-NOV-2004 23:18	1.0					13	
018	313a018	ICAL	mo5000			08-NOV-2004 23:47	1.0					14	
019	313a019	X	ib			09-NOV-2004 00:15	1.0						

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS0913 6=04WS1218 7=04WS0911 8=04WS2006 9=04WS1208 10=04WS1209 11=04WS1210 12=04WS1211 13=04WS1212 14=04WS1012

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114452687 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 09-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	314a001	X	primer			09-NOV-2004 08:47	1.0					
002	314a002	X	ib			09-NOV-2004 09:16	1.0					
003	314a003	CCV	mo			09-NOV-2004 09:45	1.0	1.0		3	1	
004	314a004	CCV	dsl			09-NOV-2004 10:15	1.0	1.0		3	2	
005	314a005	CCV	jet			09-NOV-2004 11:32	1.0	1.0		3	3	
006	314a006	LCS	QC271351 S	96262	Soil	09-NOV-2004 12:01	1.0	0.1002		3		
007	314a007	BLANK	QC271350 S	96262	Soil	09-NOV-2004 12:30	1.0	0.0999	6	3		
008	314a008	SAMPLE	175834-002 S	96262	Soil	09-NOV-2004 12:59	1.0	0.1002		3		
009	314a009	SAMPLE	175747-013 S	96262	Soil	09-NOV-2004 13:29	1.0	0.1006		3		
010	314a010	SAMPLE	175873-001 S	96262	Soil	09-NOV-2004 13:58	1.0	0.09978	1	3		4:JP5:10=8595.40
011	314a011	SAMPLE	175873-002 S	96262	Soil	09-NOV-2004 14:27	1.0	0.1002		3		
012	314a012	SAMPLE	175846-005 S	96261	Soil	09-NOV-2004 15:01	1.0	0.1003		3		1:BUNKC:=10639.8
013	314a013	SAMPLE	175848-002 S	96261	Soil	09-NOV-2004 15:30	5.0	0.09923		3		
014	314a014	CCV	hyfl			09-NOV-2004 15:59	1.0	1.0	2	3	4	
015	314a015	SAMPLE	175873-005 S	96262	Soil	09-NOV-2004 16:28	1.0	0.1001		3		
016	314a016	SAMPLE	175873-006 S	96262	Soil	09-NOV-2004 16:57	1.0	0.09988		3		
017	314a017	CCV	mo			09-NOV-2004 17:26	1.0	1.0		3	5	
018	314a018	CCV	dsl			09-NOV-2004 17:56	1.0	1.0		3	6	
019	314a019	CCV	jet			09-NOV-2004 18:25	1.0	1.0		3	3	
020	314a020	SAMPLE	175873-007 S	96262	Soil	09-NOV-2004 20:21	1.0	0.1001		3		
021	314a021	SAMPLE	175873-016 S	96262	Soil	09-NOV-2004 20:50	1.0	0.09948		3		
022	314a022	SAMPLE	175873-008 S	96262	Soil	09-NOV-2004 21:19	1.0	0.09986		3		
023	314a023	MSS	175873-009 S	96262	Soil	09-NOV-2004 21:49	1.0	0.1000	5	3		
024	314a024	SAMPLE	175873-010 S	96262	Soil	09-NOV-2004 22:18	1.0	0.1002		3		
025	314a025	SAMPLE	175873-012 S	96262	Soil	09-NOV-2004 22:47	1.0	0.1004		3		
026	314a026	SAMPLE	175873-001 S	96262	Soil	09-NOV-2004 23:17	3.0	0.09978		3		2:BUNKC:=6768.60
027	314a027	SAMPLE	175873-004 S	96262	Soil	09-NOV-2004 23:46	1.0	0.09929		3		
028	314a028	SAMPLE	175873-003 S	96262	Soil	10-NOV-2004 00:15	1.0	0.09954		3		
029	314a029	SAMPLE	175873-013 S	96262	Soil	10-NOV-2004 00:45	1.0	0.0994		3		4:JP5:10=10144.4
030	314a030	CCV	dsl			10-NOV-2004 01:14	1.0	1.0		3	7	
031	314a031	CCV	mo			10-NOV-2004 01:44	1.0	1.0		3	1	

Stds used: 1=04WS2074 2=04WS1975 3=04WS1699 4=04WS1682 5=04WS1972 6=04WS1853 7=04WS1563 8=04WS2026

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114452687 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 09-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	314a032	X	ccv			10-NOV-2004 02:13	1.0					7	
033	314a033	CCV	jet			10-NOV-2004 02:42	1.0	1.0			3	3	
034	314a034	SAMPLE	175873-011 S	96262	Soil	10-NOV-2004 03:11	1.0	0.09946			3		
035	314a035	SAMPLE	175873-015 S	96262	Soil	10-NOV-2004 03:41	1.0	0.09944			3		
036	314a036	SAMPLE	175873-014 S	96262	Soil	10-NOV-2004 04:10	1.0	0.09976			3		
037	314a037	CCV	dsl			10-NOV-2004 04:40	1.0	1.0			3	2	
038	314a038	CCV	mo			10-NOV-2004 05:09	1.0	1.0			3	1	
039	314a039	X	ccv			10-NOV-2004 05:39	1.0					2	
040	314a040	CCV	jet			10-NOV-2004 06:08	1.0	1.0			3	3	
041	314a041	X	ib			10-NOV-2004 08:50	1.0						
042	314a042	SAMPLE	175857-002 S	96261	Soil	10-NOV-2004 09:52	1.0	0.09978			3		
043	314a043	CCV	transoil			10-NOV-2004 10:24	1.0	1.0			3	8	
044	314a044	BLANK	QC271522	96308	Soil	10-NOV-2004 11:26	1.0	0.09968	5		3		
045	314a045	LCS	QC271523	96308	Soil	10-NOV-2004 11:55	1.0	0.0993			3		
046	314a046	SAMPLE	175872-007	96261	Miscel	10-NOV-2004 12:35	50.0	0.09968			3		1:BUNKC:=10842.8
047	314a047	SAMPLE	175872-001	96261	Miscel	10-NOV-2004 13:04	10.0	0.09927			3		
048	314a048	SAMPLE	175872-005	96261	Miscel	10-NOV-2004 13:34	5.0	0.09982			3		1:BUNKC:=7783.65
049	314a049	SAMPLE	175872-009	96308	Miscel	10-NOV-2004 14:03	1.0	0.09972	1		3		7:BUNKC:=40076.5

Stds used: 1=04WS2074 2=04WS1975 3=04WS1699 4=04WS1682 5=04WS1972 6=04WS1853 7=04WS1563 8=04WS2026

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174452910 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	314a001	X	primer			09-NOV-2004 12:30	1.0						
002	314a002	X	ib			09-NOV-2004 12:58	1.0						
003	314a003	CCV	dsl			09-NOV-2004 13:31	1.0					1	
004	314a004	CCV	dsl			09-NOV-2004 14:15	1.0	1.0			3	1	
005	314a005	CCV	mo			09-NOV-2004 14:54	1.0	1.0			3	2	
006	314a006	CCV	trans			09-NOV-2004 16:24	1.0	1.0			3	3	
007	314a007	BLANK	QC271346 S	96261	Soil	09-NOV-2004 17:04	1.0	0.09927	7		3		
008	314a008	SAMPLE	175838-001	96262	Soil	09-NOV-2004 18:00	1.0	0.0998			3		
009	314a009	SAMPLE	175769-001	96231	Soil	09-NOV-2004 18:28	1.0	0.09992			3		
010	314a010	X	ib			09-NOV-2004 21:22	1.0						
011	314a011	CCV	dsl			09-NOV-2004 21:51	1.0	1.0			3	4	
012	314a012	CCV	mo			09-NOV-2004 22:19	1.0	1.0	5		3	2	
013	314a013	X	ccv			09-NOV-2004 22:48	1.0					4	
014	314a014	CCV	trans			09-NOV-2004 23:16	1.0	1.0			3	3	
015	314a015	SAMPLE	175769-004	96261	Soil	09-NOV-2004 23:45	1.0	0.09982		1	3		
016	314a016	SAMPLE	175769-005	96261	Soil	10-NOV-2004 00:13	1.0	0.0995			3		
017	314a017	SAMPLE	175872-001	96261	Miscel	10-NOV-2004 00:42	1.0	0.09927	1	1	3		9:BUNKC:=21257.3
018	314a018	SAMPLE	175872-002	96261	Miscel	10-NOV-2004 01:10	1.0	0.1003			3		
019	314a019	SAMPLE	175872-003	96261	Miscel	10-NOV-2004 01:39	1.0	0.0999		1	3		
020	314a020	SAMPLE	175872-004	96261	Miscel	10-NOV-2004 02:08	1.0	0.09927	1	1	3		9:BUNKC:=29983.6
021	314a021	SAMPLE	175872-005	96261	Miscel	10-NOV-2004 02:36	1.0	0.09982			3		7:BUNKC:=19036.5
022	314a022	SAMPLE	175872-006	96261	Miscel	10-NOV-2004 03:05	1.0	0.1000			3		4:BUNKC:=13269.8
023	314a023	SAMPLE	175872-007	96261	Miscel	10-NOV-2004 03:34	1.0	0.09968	1	1	3		10:BUNKC:=31057.1
024	314a024	SAMPLE	175857-002 S	96261	Soil	10-NOV-2004 04:02	1.0	0.09978	1		3		
025	314a025	CCV	dsl			10-NOV-2004 04:31	1.0	1.0			3	5	
026	314a026	CCV	mo			10-NOV-2004 05:00	1.0	1.0			3	2	
027	314a027	X	ccv			10-NOV-2004 05:28	1.0					5	
028	314a028	CCV	trans			10-NOV-2004 05:57	1.0	1.0			3	3	
029	314a029	MS	QC271352 S	96262	Soil	10-NOV-2004 06:25	1.0	0.09909			3		
030	314a030	MSD	QC271353 S	96262	Soil	10-NOV-2004 06:54	1.0	0.09994			3		
031	314a031	SAMPLE	175697-008	96219	Soil	10-NOV-2004 07:23	15.0	0.09923			3		2:BUNKC:=8471.89

Stds used: 1=04WS1975 2=04WS2074 3=04WS2026 4=04WS1853 5=04WS1563

SEQUENCE SUMMARY FOR 175838 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174452910 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 09-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	314a032	SAMPLE	175697-005	96219	Soil	10-NOV-2004 07:51	20.0	0.09913		3	2:BUNKC:=6558.29	
033	314a033	SAMPLE	175697-007	96219	Soil	10-NOV-2004 08:20	25.0	0.09996		3		
034	314a034	SAMPLE	175769-002	96231	Soil	10-NOV-2004 08:48	50.0	0.09932		3	3:BUNKC:=12809.2	
035	314a035	SAMPLE	175697-001	96219	Soil	10-NOV-2004 09:17	20.0	0.0996		3	2:BUNKC:=5720.00	
036	314a036	X	ib			10-NOV-2004 09:45	1.0					
037	314a037	SAMPLE	175769-003	96231	Soil	10-NOV-2004 10:14	1.0	0.0993		3		
038	314a038	MSS	175857-003 S	96261	Soil	10-NOV-2004 10:42	1.0	0.09986	7	3		
039	314a039	SAMPLE	175857-001 S	96261	Soil	10-NOV-2004 11:11	1.0	0.09948		3		
040	314a040	X	ib			10-NOV-2004 11:39	1.0					
041	314a041	CCV	dsl			10-NOV-2004 12:08	1.0	1.0		3	1	
042	314a042	CCV	mo			10-NOV-2004 12:36	1.0	1.0		3	2	
043	314a043	MS	QC271348 S	96261	Soil	10-NOV-2004 13:08	1.0					
044	314a044	MSD	QC271349 S	96261	Soil	10-NOV-2004 13:36	1.0					

30

Stds used: 1=04WS1975 2=04WS2074 3=04WS2026 4=04WS1853 5=04WS1563

Curtis & Tompkins, Ltd.

Reporting Summary for 175838 TEHM Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
175838-001	Diesel C12-C24	GC17A	A	11/09/04 18:00
175838-001	Motor Oil C24-C36	GC17A	A	11/09/04 18:00
175838-001	Hexacosane	GC17A	A	11/09/04 18:00
QC271350	Diesel C12-C24	GC11A	A	11/09/04 12:30
QC271350	Motor Oil C24-C36	GC11A	A	11/09/04 12:30
QC271350	Hexacosane	GC11A	A	11/09/04 12:30
QC271351	Diesel C12-C24	GC11A	A	11/09/04 12:01
QC271351	Hexacosane	GC11A	A	11/09/04 12:01
QC271352	Diesel C12-C24	GC17A	A	11/10/04 06:25
QC271352	Hexacosane	GC17A	A	11/10/04 06:25
QC271353	Diesel C12-C24	GC17A	A	11/10/04 06:54
QC271353	Hexacosane	GC17A	A	11/10/04 06:54

Curtis & Tompkins Laboratories Sample Preparation Summary 09-NOV-2004 10:50

Batch Number : 96262
Date Extracted: 08-NOV-2004
Extracted by : Sharon L. Karagozlu
Prep Method : SHAKER TABLE

Analysis : N/A
Bgroup : TEH
Units : g
Clean-up :

Spike #1 ID : 04WS1916C
Spike #2 ID : 04WS2100C
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175747-013			Cambria Environmental	Soil	49.7	g	5	0.100604	1		1	0		TEH	3630C	sg
175834-002			Mactec, Inc.	Soil	49.92	g	5	0.100160	1		1	0		TEHM	3630C	sg
175838-001			Treadwell & Rollo	Soil	50.1	g	5	0.099800	1		1	0		TEHM		
175873-001			Burns & McDonnell	Soil	50.11	g	5	0.099780	1		1	0		TEH	3630C	sg
175873-002			Burns & McDonnell	Soil	49.88	g	5	0.100241	1		1	0		TEH	3630C	sg
175873-003			Burns & McDonnell	Soil	50.23	g	5	0.099542	1		1	0		TEH	3630C	sg
175873-004			Burns & McDonnell	Soil	50.36	g	5	0.099285	1		1	0		TEH	3630C	sg
175873-005			Burns & McDonnell	Soil	49.97	g	5	0.100060	1		1	0		TEH	3630C	sg
175873-006			Burns & McDonnell	Soil	50.06	g	5	0.099880	1		1	0		TEH	3630C	sg
175873-007			Burns & McDonnell	Soil	49.97	g	5	0.100060	1		1	0		TEH	3630C	sg
175873-008			Burns & McDonnell	Soil	50.07	g	5	0.099860	1		1	0		TEH	3630C	sg
175873-009			Burns & McDonnell	Soil	49.98	g	5	0.100040	1		1	0		TEH	3630C	sg,mss
175873-010			Burns & McDonnell	Soil	49.88	g	5	0.100241	1		1	0		TEH	3630C	sg
175873-011			Burns & McDonnell	Soil	50.27	g	5	0.099463	1		1	0		TEH	3630C	sg
175873-012			Burns & McDonnell	Soil	49.81	g	5	0.100381	1		1	0		TEH	3630C	sg
175873-013			Burns & McDonnell	Soil	50.3	g	5	0.099404	1		1	0		TEH	3630C	sg
175873-014			Burns & McDonnell	Soil	50.12	g	5	0.099761	1		1	0		TEH	3630C	sg
175873-015			Burns & McDonnell	Soil	50.28	g	5	0.099443	1		1	0		TEH	3630C	sg
175873-016			Burns & McDonnell	Soil	50.26	g	5	0.099483	1		1	0		TEH	3630C	sg
QC271350	MB			Soil	50.05	g	5	0.099900	1		1	0		TEH	3630C	sg
QC271351	LCS			Soil	49.88	g	5	0.100241	1		1	1		TEH	3630C	sg
QC271352	MS	of 175873-009		Soil	50.46	g	5	0.099088	1		1	1		TEH	3630C	sg
QC271353	MSD	of 175873-009		Soil	50.03	g	5	0.099940	1		1	1		TEH	3630C	sg

Prep Chemist: JRD for SLK 11/9/04 Reviewed By: [illegible] Date: 11/9/04

Relinquished By: [illegible] Received By: [illegible] Date: 11-09-04

Curtis & Tompkins, Ltd.

TEH SOIL PREP LOG

BK 1990

Page 68

LIMS Batch No: 96262
LIMS Analysis: TEH/M
Extracted by: SCK
Date Extracted: 11/08/04

Extraction Method:
☑ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ Other

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	MB QC27350	50.05	5.0	X	
	LCS 1	49.88			
	MS 2	50.46			175873-009
	MSD 3	50.03			
5	175747-013	49.70			weight recorded directly to benchbook
	175824-002	49.98			
	175838-001	50.10			
	175873-001	50.11		X	
	-002	49.88			
10	-003	50.23			
	-004	50.36			
	-005	49.97			
	-006	50.06			
	-007	49.97			
15	-008	50.07			
	-009	49.98			MSS
	-010	49.88			
	-011	50.27			
	-012	49.81			
20	-013	50.30			
	-014	50.12			
	-015	50.28			
	-016	50.26			
			BB 11/8/04		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM4402842 1	SCK 11/08/04
Samples were dried with CH2Cl2-rinsed ~~granular~~ fine Na_2SO_4	EM4413 5433	
1.0 mL of TEH_SURR surrogate solution was added to all samples	04WS1916C	
1.0 mL of TEH_SP matrix spiking solution was added to all spikes	04WS2100C	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all CH_2Cl_2	EM44244	
Acetone	EM44179	
Samples were: ☐ sonicated 3 times ☑ placed on shaker table at:	1930	
taken off shaker table at:	2130	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM4413 5433	RB 11/9/04
Concentrated to volumes as noted above		

11/08/04
Extraction Chemist / Date

Continued from page 33
Continued on page

11/9/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: ~~96262~~ BB JBD 11/9/04 Benchbook # **BK 2028**

Cleanup Date: 11/9/04 Page 5

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC271350	96262	1.0	1.0	
LCS 1				
MS 2				
MSD 3				
175747-013				
175834-002				
~~175838-001~~		NOT	SG'D	SV 11/10/04
175873-001				
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
-010				
-011				
-012				
-013				
-014				
-015				
-016				

SV 11/9/04

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled g columns	NA	SV 11/9/04
☑ Extracts were cleaned up using 1.0 g cartridges	S83362	
Extracts were eluted with 20mL CH_2Cl_2	EM 4294	
Concentrated to volumes as noted above	✓	

11/9/04

Extraction Chemist / Date

Continued from page ___

Continued on page ___

Jennifer Dell 11/9/04

Reviewed by / Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
		—	
175823-001 A	50.11	TEH	
-002	49.88		
-003	50.23		
-004	50.36		
-005	49.97		
-006	50.06		
-007	49.97		
-008	50.07		
-009	49.98		
-010	49.86		MSS
-011	50.27		
-012	49.81		
-013	50.30		
-014	50.12		
-015	50.28		
-016	50.26		
MS	50.46		
MSD	50.03		175823-009A
LCS	49.88		↓
MB	50.05		EM440842
175823-001 A	15.08	PCB	↓
-002	14.93		
-003	15.13		
-004	15.09		
-005	15.17		
-006	15.00		
-007	15.07		
-008	15.08		
-009	15.03		
-010	14.81		
-011	15.18		
-012	15.16		
-013	14.81		

Continued on Page 94

Read and Understood By

Michelle Cash 11/8/04
Signed Date

Signed Date

PROJECT Soxhlet

Continued From Page

SAMPLE	WEIGHT	TEST	COMMENT
175747-013	49.70	TEH	
175834-002	49.92		
175838-001	50.10		

RSS 11/2/09

Continued on Page

Read and Understood By

Signed 11/9/09 Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil SHAKER TABLE

Analyte	Units	GC11A	GC13B	GC15B	GC17A
Diesel C10-C20	mg/Kg		10/20/04 0.30	10/20/04 0.29	10/20/04 0.20
Diesel C10-C22	mg/Kg	10/26/04 0.57	10/20/04 0.30	10/20/04 0.30	10/20/04 0.19
Diesel C10-C24	mg/Kg	10/26/04 0.55	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C10-C28	mg/Kg	10/26/04 0.68	10/20/04 0.32	10/20/04 0.30	10/20/04 0.40
Diesel C12-C28	mg/Kg		10/20/04 0.32		
Diesel C12-C36	mg/Kg	10/26/04 0.60	10/20/04 0.32		
Diesel C12-C32	mg/Kg			10/20/04 0.31	10/20/04 0.50
Diesel C12-C24	mg/Kg	10/26/04 0.42	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C12-C22	mg/Kg	10/26/04 0.44	10/20/04 0.31	10/20/04 0.30	10/20/04 0.20
Motor Oil C20-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.68	03/30/04 0.32
Motor Oil C22-C36	mg/Kg	04/06/04 2.4	04/10/04 0.54	04/10/04 0.71	03/30/04 0.32
Motor Oil C24-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.80	03/30/04 0.30
Motor Oil C22-C32	mg/Kg	04/06/04 2.6	04/10/04 0.64	04/10/04 0.54	03/30/04 0.31
Hexacosane	mg/Kg	09/20/03 0.17	08/15/03 0.11	08/16/03 0.069	09/05/03 0.17

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB110504A	Batch#:	96268
Lab ID:	175838-002	Sampled:	11/05/04
Matrix:	Water	Received:	11/05/04
Units:	ug/L	Analyzed:	11/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB110504A	Batch#:	96268
Lab ID:	175838-002	Sampled:	11/05/04
Matrix:	Water	Received:	11/05/04
Units:	ug/L	Analyzed:	11/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	94	80-120
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC271383	Batch#:	96268
Matrix:	Water	Analyzed:	11/09/04
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC271383	Batch#:	96268
Matrix:	Water	Analyzed:	11/09/04
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	94	80-120
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	96268
Units:	ug/L	Analyzed:	11/09/04
Diln Fac:	1.000		

Type: BS Lab ID: QC271380

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.35	93	75-120
Benzene	25.00	22.36	89	79-120
Trichloroethene	25.00	21.62	86	79-120
Toluene	25.00	22.93	92	80-120
Chlorobenzene	25.00	23.28	93	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	90	80-120
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-122

Type: BSD Lab ID: QC271381

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	22.71	91	75-120	3	20
Benzene	25.00	22.45	90	79-120	0	20
Trichloroethene	25.00	22.45	90	79-120	4	20
Toluene	25.00	23.27	93	80-120	1	20
Chlorobenzene	25.00	22.98	92	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	93	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-122

RPD= Relative Percent Difference

8260-ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\091404.b\HIE08.D

Date : 14-SEP-2004 15:30

Client ID: bfb tune std

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

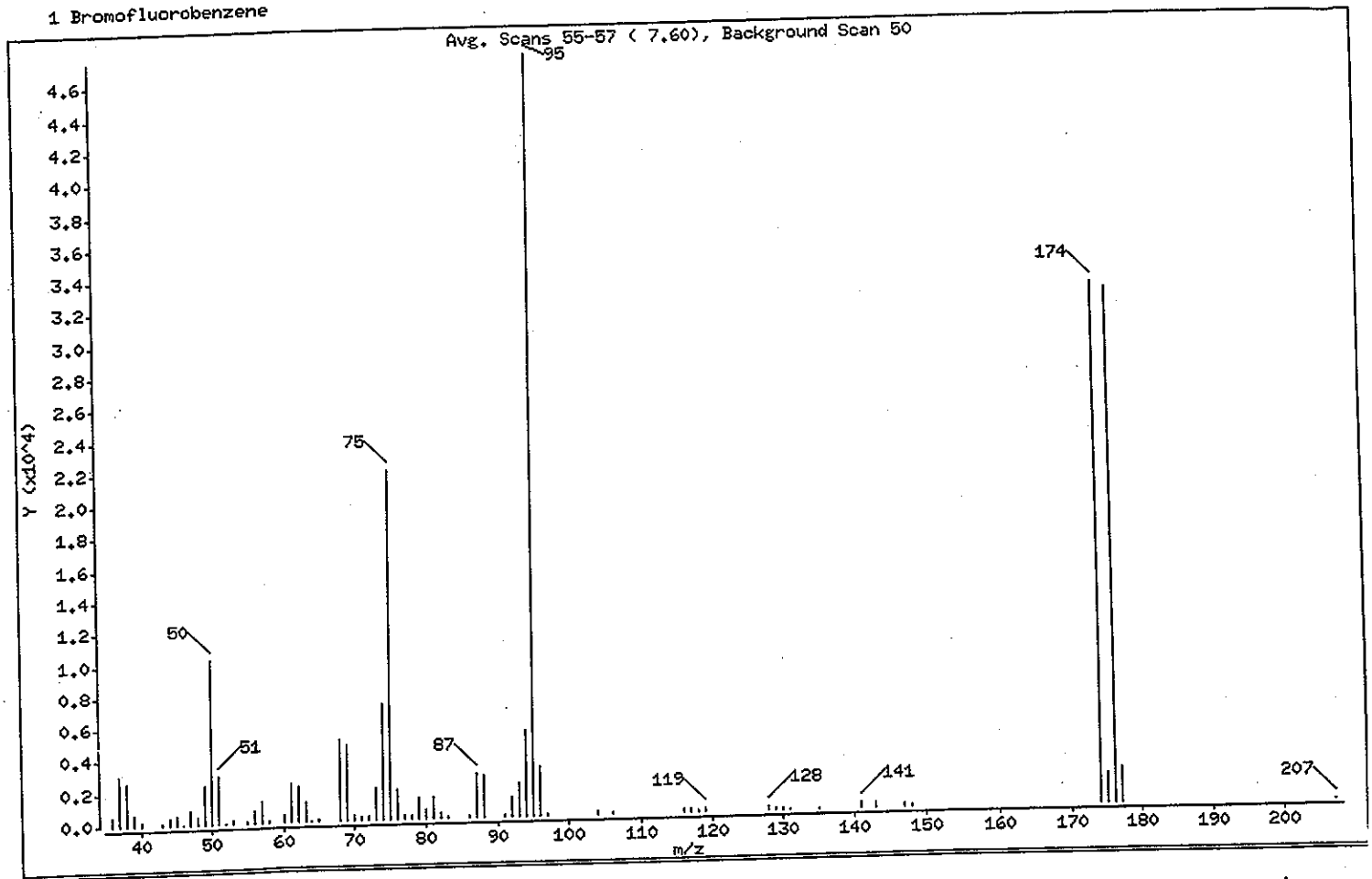
Column phase:

1 Bromofluorobenzene

Instrument: MSVOA08.i

Operator: LW

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.66
75	30.00 - 60.00% of mass 95	45.95
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	68.81
175	5.00 - 9.00% of mass 174	3.91 (5.68)
176	95.01 - 100.99% of mass 174	67.96 (98.77)
177	5.00 - 9.00% of mass 176	4.57 (6.73)

Ar 09/15/04

LW 9-15-04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\110904.b\HK902.D

Date : 09-NOV-2004 09:21

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

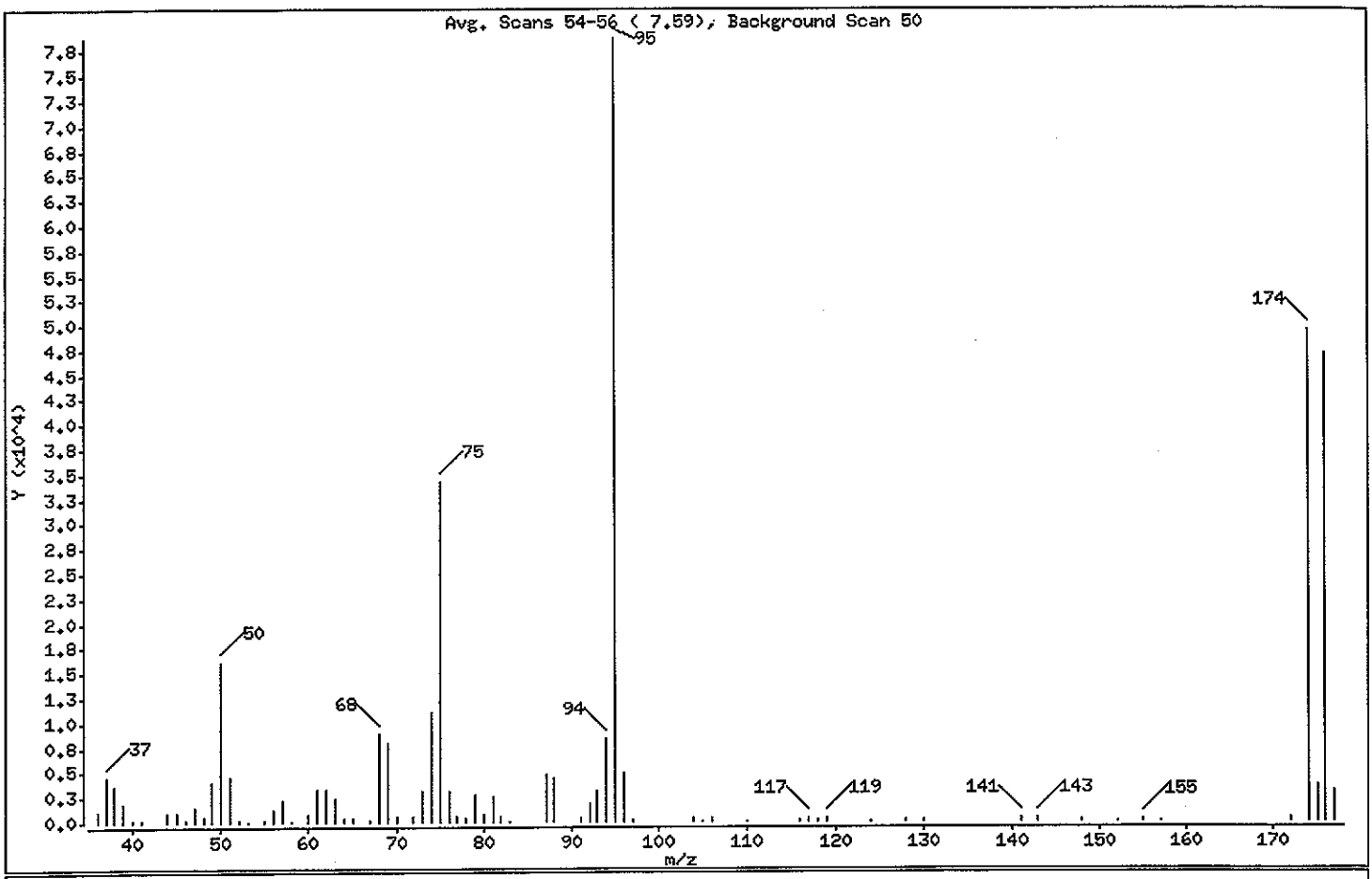
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.54
75	30.00 - 60.00% of mass 95	43.41
96	5.00 - 9.00% of mass 95	6.14
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	62.87
175	5.00 - 9.00% of mass 174	4.59 (7.30)
176	95.01 - 100.99% of mass 174	59.75 (95.04)
177	5.00 - 9.00% of mass 176	3.86 (6.45)

LW 11-10-04

Data File: \\GCMSSERVER\DD\chem\MSVOA08.i\110904.b\HK912.D

Date : 09-NOV-2004 15:45

Client ID: bfb tune std

Instrument: MSVOA08.i

Sample Info: BFB,04WS1238

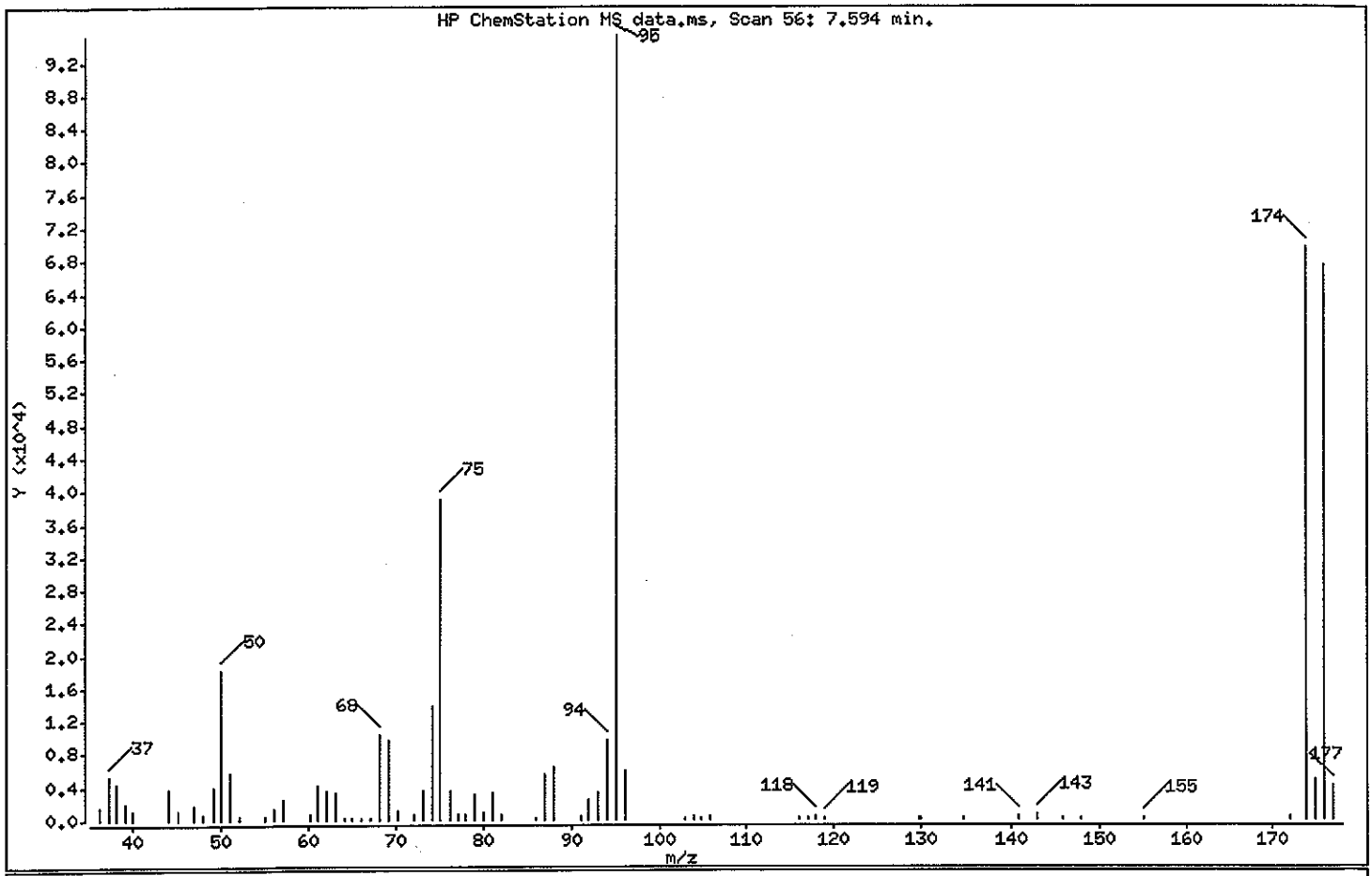
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.11
75	30.00 - 60.00% of mass 95	40.99
96	5.00 - 9.00% of mass 95	6.19
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	73.16
175	5.00 - 9.00% of mass 174	5.10 (6.97)
176	95.01 - 100.99% of mass 174	70.87 (96.86)
177	5.00 - 9.00% of mass 176	4.31 (6.08)

LW 11-10-04

8260 ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Manual Integrations are for splitting

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	hie11	474372175011	1.0/0.5 PPB	14-SEP-2004 17:11	04SS331 (500000X), 04WS1422E (500000X), 04WS1715A (1000000X), 04WS1453C (5000X)
2	hie12	474372175012	5 PPB	14-SEP-2004 17:47	04SS331 (100000X), 04WS1422E (50000X), 04WS1715A (200000X), 04WS1453C (5000X)
3	hie13	474372175013	10 PPB	14-SEP-2004 18:23	04SS331 (50000X), 04WS1422E (25000X), 04WS1715A (100000X), 04WS1453C (5000X)
4	hie14	474372175014	20 PPB	14-SEP-2004 18:59	04SS331 (25000X), 04WS1422E (12500X), 04WS1715A (50000X), 04WS1453C (5000X)
5	hie15	474372175015	50 PPB	14-SEP-2004 19:35	04SS331 (10000X), 04WS1422E (5000X), 04WS1715A (20000X), 04WS1453C (5000X)
6	hie16	474372175016	75 PPB	14-SEP-2004 20:12	04SS331 (6667X), 04WS1422E (3333X), 04WS1715A (13333X), 04WS1453C (5000X)
7	hie17	474372175017	100 PPB	14-SEP-2004 20:48	04SS331 (5000X), 04WS1422E (2500X), 04WS1715A (10000X), 04WS1453C (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4578	0.4232	0.4493	0.4397	0.4224	0.4372	0.4353	AVRG	R		2.283820		ug/L	0.4379	3	0.0500	0.99	15	
Chloromethane	0.4161	0.4677	0.4318	0.4244	0.4172	0.4280	0.4155	AVRG	R		2.332771		ug/L	0.4287	4	0.1000	0.99	15	
Vinyl Chloride	0.2965	0.3146	0.3015	0.3044	0.2794	0.2849	0.2784	AVRG	R		3.398561		ug/L	0.2942	5	0.0500	0.99	15	
Bromomethane	0.1483	0.1533	0.1692	0.1814	0.1946	0.2163		AVRG	R		5.643466		ug/L	0.1772	15	0.0500	0.99	15	
Chloroethane	0.1791	0.1976	0.1937	0.1891	0.1866	0.1936	0.1864	AVRG	R		5.278693		ug/L	0.1894	3	0.0500	0.99	15	
Trichlorofluoromethane	0.5127	0.4919	0.5154	0.5149	0.5059	0.5135	0.5164	AVRG	R		1.960390		ug/L	0.5101	2	0.0500	0.99	15	
Acetone		0.2178	0.1481	0.1445	0.1491	0.1523		LINR	R	-0.44153	6.663410		ug/L	0.1624	0.998	0.0500	0.99	15	
Freon 113	0.3591	0.2728	0.2989	0.2833	0.2862	0.2962	0.2971	AVRG	R		3.343482		ug/L	0.2991	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3131	0.2901	0.3040	0.2914	0.2896	0.2941	0.2938	AVRG	R		3.371720		ug/L	0.2966	3	0.0500	0.99	15	
Methylene Chloride		0.4282	0.3904	0.3766	0.3739	0.3672	0.3712	AVRG	R		2.600248		ug/L	0.3846	6	0.0500	0.99	15	
Carbon Disulfide	1.2036	1.1669	1.1533	1.1227	1.1227	1.1241	1.1456	AVRG	R		0.870775		ug/L	1.1484	3	0.0500	0.99	15	
MTBE	0.8012	0.8837	0.8138	0.8256	0.8140	0.8051	0.8265	AVRG	R		1.213180		ug/L	0.8243	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.3615	0.3580	0.3353	0.3231	0.3252	0.3222	0.3317	AVRG	R		2.969970		ug/L	0.3367	5	0.0500	0.99	15	
Vinyl Acetate	1.0732	1.0151	0.9125	0.9224	0.8903	0.8853	0.8874	AVRG	R		1.062833		ug/L	0.9409	8	0.0500	0.99	15	
1,1-Dichloroethane	0.6204	0.6659	0.6141	0.6099	0.6000	0.5911	0.5910	AVRG	R		1.630768		ug/L	0.6132	4	0.1000	0.99	15	
2-Butanone		0.2519	0.2088	0.2041	0.1962	0.1967	0.1824	AVRG	R		4.838185		ug/L	0.2067	12	0.0500	0.99	15	
2,2-Dichloropropane	0.4639	0.4500	0.4473	0.4224	0.4195	0.4217	0.4254	AVRG	R		2.294948		ug/L	0.4357	4	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.3277	0.3768	0.3522	0.3423	0.3421	0.3417	0.3409	AVRG	R		2.888269		ug/L	0.3462	4	0.0500	0.99	15	

ICAL OK except 2-clove Failed and did not meet min RF ICV OK CCSACE Freon 12, Chloromethane

Flags used: irf=ICAL minimum RF failure m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

LW 9-15-04

09/15/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 tRSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.5918	0.6264	0.5846	0.5826	0.5802	0.5678	0.5826	AVRG	R		1.700656		ug/L	0.5880	3	0.0500	0.99	15	
Bromochloromethane	0.1631	0.1738	0.1681	0.1650	0.1695	0.1661	0.1691	AVRG	R		5.959235		ug/L	0.1678	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.4074	0.4400	0.4316	0.4208	0.4255	0.4286	0.4368	AVRG	R		2.340623		ug/L	0.4272	3	0.0500	0.99	15	
1,1-Dichloropropene	0.2926	0.2570	0.2624	0.2530	0.2557	0.2556	0.2592	AVRG	R		3.813686		ug/L	0.2622	5	0.0500	0.99	15	
Carbon Tetrachloride	0.2076	0.1976	0.2047	0.2005	0.2046	0.2089	0.2103	AVRG	R		4.880711		ug/L	0.2049	2	0.0500	0.99	15	
1,2-Dichloroethane	0.2494	0.2876	0.2646	0.2616	0.2649	0.2572	0.2631	AVRG	R		3.787093		ug/L	0.2641	4	0.0500	0.99	15	
Benzene	0.8221	0.8000	0.7346	0.7157	0.7232	0.7156	0.7153	AVRG	R		1.339325		ug/L	0.7466	6	0.0500	0.99	15	
Trichloroethene	0.1931	0.1961	0.1865	0.1772	0.1821	0.1797	0.1814	AVRG	R		5.400411		ug/L	0.1852	4	0.0500	0.99	15	
1,2-Dichloropropane	0.1988	0.2091	0.1912	0.1925	0.1966	0.1901	0.1912	AVRG	R		5.111756		ug/L	0.1956	3	0.0500	0.99	15	
Bromodichloromethane	0.2704	0.2749	0.2566	0.2546	0.2573	0.2545	0.2570	AVRG	R		3.835302		ug/L	0.2607	3	0.0500	0.99	15	
Dibromomethane	0.1507	0.1580	0.1472	0.1471	0.1475	0.1437	0.1466	AVRG	R		6.726260		ug/L	0.1487	3	0.0500	0.99	15	
2-Chloroethylvinylether			3.1E-4	3.0E-4m	3.3E-4	3.4E-4m	2.8E-4	AVRG	R		3200.680		ug/L	3.1E-4	8	0.0500	0.99	15	irf ***
4-Methyl-2-Pentanone		0.2687	0.2376	0.2474	0.2295	0.2288	0.2280	AVRG	R		4.166635		ug/L	0.2400	7	0.0500	0.99	15	
Tetramethyl THF	0.5980	0.5094	0.4794	0.4713	0.4607	0.4528	0.4547	AVRG	R		2.043063		ug/L	0.4895	11	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.3230	0.3369	0.3092	0.3123	0.3116	0.3091	0.3091	AVRG	R		3.165771		ug/L	0.3159	3	0.0500	0.99	15	
Toluene	0.4291	0.4477	0.4262	0.4121	0.4107	0.4113	0.4100	AVRG	R		2.375258		ug/L	0.4210	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.2749	0.2959	0.2779	0.2745	0.2838	0.2782	0.2794	AVRG	R		3.563041		ug/L	0.2807	3	0.0500	0.99	15	
1,1,2-Trichloroethane	0.0976	0.1186	0.0997	0.0994	0.1044	0.1022	0.1033	AVRG	R		9.650696		ug/L	0.1036	7	0.0500	0.99	15	
2-Hexanone		0.2340	0.1949	0.2041	0.1964	0.1961	0.1898	AVRG	R		4.936653		ug/L	0.2026	8	0.0500	0.99	15	
1,3-Dichloropropane	0.3475	0.3861	0.3573	0.3596	0.3588	0.3529	0.3420	AVRG	R		2.795335		ug/L	0.3577	4	0.0500	0.99	15	
Tetrachloroethene	0.1804	0.1898	0.1938	0.1843	0.1893	0.1902	0.1867	AVRG	R		5.324905		ug/L	0.1878	2	0.0500	0.99	15	
Dibromochloromethane	0.2093	0.2439	0.2327	0.2279	0.2321	0.2306	0.2299	AVRG	R		4.357680		ug/L	0.2295	4	0.0500	0.99	15	
1,2-Dibromoethane	0.1897	0.2031	0.1904	0.1925	0.1901	0.1865	0.1888	AVRG	R		5.219081		ug/L	0.1916	3	0.0500	0.99	15	
Chlorobenzene	0.5713	0.6046	0.5704	0.5706	0.5546	0.5507	0.5488	AVRG	R		1.762829		ug/L	0.5673	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.1802	0.1979	0.1906	0.1851	0.1899	0.1875	0.1900	AVRG	R		5.298756		ug/L	0.1887	3	0.0500	0.99	15	
Ethylbenzene	0.9731	1.0360	0.9919	0.9603	0.9807	0.9799	0.9645	AVRG	R		1.016491		ug/L	0.9838	3	0.0500	0.99	15	
m,p-Xylenes	0.3406	0.3823	0.3636	0.3477	0.3497	0.3408	0.3319	AVRG	R		2.849415		ug/L	0.3509	5	0.0500	0.99	15	
o-Xylene	0.3539	0.3726	0.3592	0.3455	0.3430	0.3315	0.3270	AVRG	R		2.877512		ug/L	0.3475	5	0.0500	0.99	15	
Styrene	0.6016	0.6460	0.6121	0.6000	0.5965	0.5769	0.5697	AVRG	R		1.665608		ug/L	0.6004	4	0.0500	0.99	15	
Bromoform	0.2008	0.1793	0.1603	0.1601	0.1613	0.1612	0.1624	AVRG	R		5.904960		ug/L	0.1693	9	0.1000	0.99	15	
Isopropylbenzene	1.8431	1.9822	1.8570	1.8870	1.8667	1.8079	1.8292	AVRG	R		0.535452		ug/L	1.8676	3	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA08 HP GCMS VOA 08 Reviewed By:
Calnum: 474372175001 Name: I8M826W Type: WATER Date: 14-SEP-2004 17:11 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.6175	0.7120	0.6471	0.6776	0.6560	0.6383	0.6403	AVRG	R		1.525464		ug/L	0.6555	5	0.3000	0.99	15	
1,2,3-Trichloropropane	0.2310	0.1768	0.1595	0.1637	0.1598	0.1515	0.1559	LINR	R	-0.65937	6.496474		ug/L	0.1712	0.999	0.0500	0.99	15	
Propylbenzene	2.3723	2.5907	2.4320	2.4427	2.4094	2.3244	2.3164	AVRG	R		0.414495		ug/L	2.4126	4	0.0500	0.99	15	
Bromobenzene	0.4520	0.5010	0.4638	0.4597	0.4681	0.4460	0.4491	AVRG	R		2.160662		ug/L	0.4628	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.5079	1.6238	1.5450	1.5431	1.5400	1.5007	1.4897	AVRG	R		0.651147		ug/L	1.5358	3	0.0500	0.99	15	
2-Chlorotoluene	1.6287	1.7247	1.6394	1.5893	1.5655	1.5262	1.5185	AVRG	R		0.625424		ug/L	1.5989	5	0.0500	0.99	15	
4-Chlorotoluene	1.4676	1.6347	1.4424	1.4646	1.5077	1.4736	1.4496	AVRG	R		0.670489		ug/L	1.4914	4	0.0500	0.99	15	
tert-Butylbenzene	1.3062	1.4369	1.3640m	1.4059	1.3585	1.3642	1.3537	AVRG	R		0.729971		ug/L	1.3699	3	0.0500	0.99	15	
1,2,4-Trimethylbenzene	1.5289	1.7224	1.5669	1.5669	1.5627	1.5399	1.5221	AVRG	R		0.635795		ug/L	1.5728	4	0.0500	0.99	15	
sec-Butylbenzene	2.2267	2.2076	2.1437	2.1005	2.0963	2.0668	2.0689	AVRG	R		0.469471		ug/L	2.1301	3	0.0500	0.99	15	
para-Isopropyl Toluene	1.5622	1.7431	1.6593	1.6488	1.6602	1.6187	1.6245	AVRG	R		0.607810		ug/L	1.6453	3	0.0500	0.99	15	
1,3-Dichlorobenzene	0.8936	0.9687	0.8847	0.8622	0.8708	0.8459	0.8644	AVRG	R		1.130817		ug/L	0.8843	5	0.0500	0.99	15	
1,4-Dichlorobenzene	0.8787	0.9883	0.9005	0.8883	0.9083	0.8838	0.8773	AVRG	R		1.106680		ug/L	0.9036	4	0.0500	0.99	15	
n-Butylbenzene	1.6149	1.7166	1.6681	1.6717	1.6658	1.6308	1.6270	AVRG	R		0.603714		ug/L	1.6564	2	0.0500	0.99	15	
1,2-Dichlorobenzene	0.8292	0.9182	0.8464	0.8528	0.8392	0.8242	0.8309	AVRG	R		1.178285		ug/L	0.8487	4	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1142m	0.1235	0.1084	0.1138	0.1072	0.1055	0.1065	AVRG	R		8.983715		ug/L	0.1113	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.5203	0.5626	0.5239	0.5439	0.5403	0.5277	0.5378	AVRG	R		1.863494		ug/L	0.5366	3	0.0500	0.99	15	
Hexachlorobutadiene	0.2030	0.2118	0.2180	0.2151	0.2135	0.2174	0.2225	AVRG	R		4.662283		ug/L	0.2145	3	0.0500	0.99	15	
Naphthalene	1.0888	1.3360	1.2562	1.3762	1.4356	1.3759	1.4424	AVRG	R		0.751792		ug/L	1.3302	9	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.5130	0.5648	0.5228	0.5362	0.5353	0.5283	0.5309	AVRG	R		1.876054		ug/L	0.5330	3	0.0500	0.99	15	
Dibromofluoromethane	0.6060	0.6161	0.6039	0.6052	0.6039	0.6096	0.6134	AVRG	R		1.643906		ug/L	0.6083	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4070	0.3999	0.3972	0.3984	0.3923	0.3936	0.4040	AVRG	R		2.506887		ug/L	0.3989	1	0.0500	0.99	15	
Trifluorotoluene	0.2466	0.2556	0.2601	0.2488	0.2538	0.2529	0.2580	AVRG	R		3.941859		ug/L	0.2537	2	0.0500	0.99	15	
Toluene-d8	1.0020	0.9920	0.9922	0.9855	0.9751	0.9873	0.9875	AVRG	R		1.011318		ug/L	0.9888	1	0.0500	0.99	15	
Bromofluorobenzene	1.1576	1.1733	1.1553	1.1695	1.1602	1.1664	1.1479	AVRG	R		0.860994		ug/L	1.1614	1	0.0500	0.99	15	

Flags used: irf=ICAL minimum RF failure m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 17:11 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.002/1000,04WS1422E,0.002/1000,
Misc Info : 04WS1715A,0.001/1000,1.0/0.5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 17:11 Cal File: HIE11.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Freon 12	85	3.121	3.115	(0.364)	19073	1.00000	1.0456
	2 Chloromethane	50	3.476	3.480	(0.405)	17336	1.00000	0.9707
	3 Vinyl Chloride	62	3.614	3.598	(0.421)	12350	1.00000	1.0075
	4 Bromomethane	94	4.216	4.219	(0.491)	6178	1.00000	0.8369
	5 Chloroethane	64	4.334	4.338	(0.505)	7461	1.00000	0.9453
	6 Trichlorofluoromethane	101	4.758	4.762	(0.554)	21359	1.00000	1.0050
	7 Acetone	43	5.300	5.304	(0.618)	13799	0.50000	1.7656
	8 Freon 113	101	5.418	5.422	(0.631)	7480	0.50000	0.6003
	9 1,1-Dichloroethene	96	5.596	5.600	(0.652)	6522	0.50000	0.5278
	10 Methylene Chloride	84	6.207	6.211	(0.723)	12761	0.50000	0.7964
	11 Carbon Disulfide	76	6.296	6.300	(0.734)	25071	0.50000	0.5240
	12 MTBE	73	6.562	6.546	(0.765)	16689	0.50000	0.4860(a)
	13 trans-1,2-Dichloroethene	96	6.710	6.704	(0.782)	7530	0.50000	0.5368
	14 Vinyl Acetate	43	7.242	7.236	(0.844)	22354	0.50000	0.5703
	15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	12922	0.50000	0.5058
	16 2-Butanone	43	7.824	7.808	(0.912)	9042	0.50000	1.0501
	17 2,2-Dichloropropane	77	8.130	8.134	(0.947)	9662	0.50000	0.5322
	18 cis-1,2-Dichloroethene	96	8.130	8.134	(0.947)	6825	0.50000	0.4731(a)
	19 Chloroform	83	8.386	8.380	(0.977)	12328	0.50000	0.5032
*	20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2082978	50.0000	
	21 Bromochloromethane	128	8.574	8.577	(0.999)	3397	0.50000	0.4859(a)
$	22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1262234	50.0000	49.8083

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.047	9.041	(1.054)	8487	0.50000	0.4768(a)
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	10568	0.50000	0.5579
$	25 1,2-Dichloroethane-d4	65	9.402	9.396	(0.935)	1469944	50.0000	51.0108
	26 Carbon Tetrachloride	117	9.461	9.465	(0.941)	7500	0.50000	0.5067
	27 1,2-Dichloroethane	62	9.530	9.534	(0.948)	9007	0.50000	0.4721(a)
	28 Benzene	78	9.648	9.642	(0.960)	29693	0.50000	0.5505
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	3611963	50.0000	
	30 Trichloroethene	95	10.605	10.618	(1.055)	6974	0.50000	0.5213
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	8908	0.50000	0.4860(aA)
	32 1,2-Dichloropropane	63	10.841	10.835	(1.078)	7179	0.50000	0.5079
	33 Bromodichloromethane	83	11.167	11.160	(1.111)	9765	0.50000	0.5184
	34 Dibromomethane	93	11.216	11.210	(1.116)	5443	0.50000	0.5068
	35 4-Methyl-2-Pentanone	43	11.738	11.732	(1.168)	12136	0.50000	0.6999
	37 Tetramethyl THF	43	11.936	11.920	(1.187)	21599	0.50000	0.6108(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	11666	0.50000	0.5102
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3619312	50.0000	50.6687
	40 Toluene	92	12.645	12.649	(1.258)	15499	0.50000	0.5096
	41 trans-1,3-Dichloropropene	75	12.823	12.827	(1.276)	9930	0.50000	0.4897(a)
	42 1,1,2-Trichloroethane	85	13.099	13.093	(1.303)	3524	0.50000	0.4707(a)
	43 2-Hexanone	43	13.158	13.152	(0.875)	9622	0.50000	0.7962
	44 1,3-Dichloropropane	76	13.503	13.507	(0.898)	10365	0.50000	0.4856(a)
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	5381	0.50000	0.4802(a)
	46 Dibromochloromethane	129	13.957	13.961	(0.928)	6242	0.50000	0.4559(a)
	47 1,2-Dibromoethane	107	14.322	14.315	(1.425)	6852	0.50000	0.4950(a)
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	2982900	50.0000	
	49 Chlorobenzene	112	15.100	15.104	(1.004)	17041	0.50000	0.5035
	50 1,1,1,2-Tetrachloroethane	131	15.160	15.173	(1.008)	5375	0.50000	0.4774(a)
	51 Ethylbenzene	91	15.238	15.232	(1.013)	29027	0.50000	0.4945(a)
	52 m,p-Xylenes	106	15.396	15.390	(1.024)	20320	1.00000	0.9705
	53 o-Xylene	106	16.146	16.139	(1.073)	10556	0.50000	0.5091
	54 Styrene	104	16.165	16.159	(1.075)	10944	0.50000	0.5009
	55 Bromoform	173	16.648	16.652	(1.107)	5990	0.50000	0.5928
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	28989	0.50000	0.4934(a)
	57 1,1,2,2-Tetrachloroethane	83	16.964	16.958	(0.877)	8708	0.50000	0.4710(a)
$	58 Bromofluorobenzene	95	17.171	17.165	(0.888)	1632293	50.0000	49.8335
	60 Bromobenzene	156	17.516	17.510	(0.906)	6374	0.50000	0.4883(a)
	61 Propylbenzene	91	17.526	17.520	(0.906)	33452	0.50000	0.4916(a)
	62 2-Chlorotoluene	91	17.802	17.796	(0.920)	22966	0.50000	0.5093
	63 1,3,5-Trimethylbenzene	105	17.812	17.816	(0.921)	21263	0.50000	0.4909(a)
	64 4-Chlorotoluene	91	17.891	17.885	(0.925)	20694	0.50000	0.4919(a)
	65 tert-Butylbenzene	119	18.463	18.456	(0.955)	18418	0.50000	0.4767(a)
	66 1,2,4-Trimethylbenzene	105	18.522	18.525	(0.958)	21559	0.50000	0.4860(a)
	67 sec-Butylbenzene	105	18.857	18.861	(0.975)	31398	0.50000	0.5226
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	22028	0.50000	0.4747(a)
	69 1,3-Dichlorobenzene	146	19.212	19.216	(0.993)	12600	0.50000	0.5052
*	70 1,4-Dichlorobenzene-d4	152	19.340	19.334	(1.000)	1410089	50.0000	
	71 1,4-Dichlorobenzene	146	19.389	19.393	(1.003)	12391	0.50000	0.4862(a)
	72 n-Butylbenzene	91	19.863	19.866	(1.027)	22772	0.50000	0.4874(a)
	73 1,2-Dichlorobenzene	146	20.060	20.064	(1.037)	11692	0.50000	0.4884(a)
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	1610	0.50000	0.5128(M)
	75 1,2,4-Trichlorobenzene	180	23.057	23.061	(1.192)	7337	0.50000	0.4848(a)
	76 Hexachlorobutadiene	225	23.353	23.357	(1.207)	2863	0.50000	0.4733(a)
	77 Naphthalene	128	23.422	23.426	(1.211)	15353	0.50000	0.4092(a)
	78 1,2,3-Trichlorobenzene	180	23.836	23.840	(1.232)	7234	0.50000	0.4812(a)

LW 9-15-04

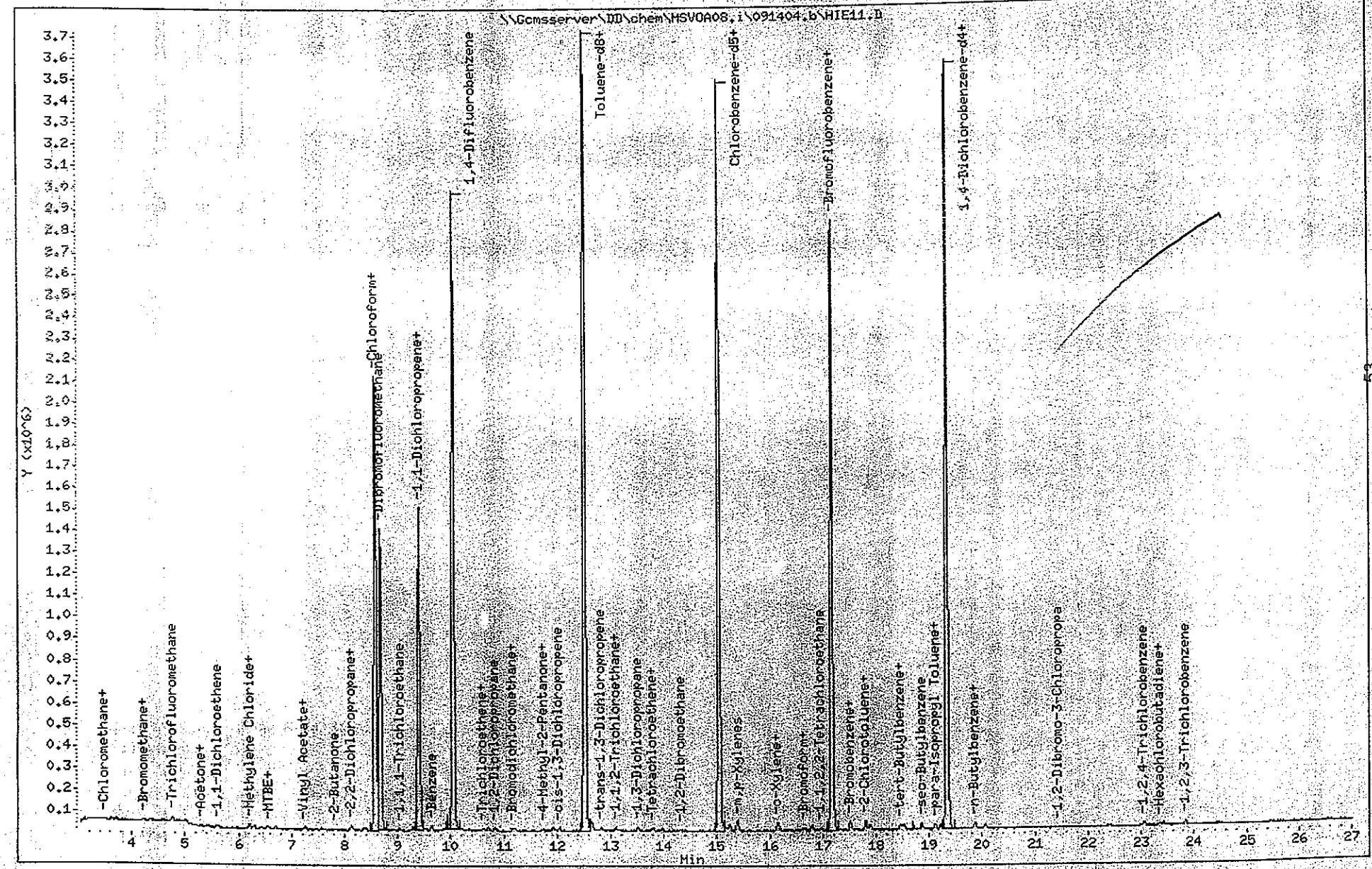
Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Report Date: 15-Sep-2004 09:37

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE11.D
Date : 14-SEP-2004 17:11
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.002/1000,04WS1422E,0.002/1000,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Lab Smp Id:
Inj Date : 14-SEP-2004 17:47
Operator : LW
Smp Info : ICAL,04SS331,0.005/500,04WS1422E,0.01/500,
Misc Info : 04WS1715A,0.0025/500,5 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target
Cal Date : 14-SEP-2004 17:47
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Client Smp ID: DYNA P&T
MS Autotune Date: 14-SEP-2004 13:26
Inst ID: MSVOA08.i
Quant Type: ISTD
Cal File: HIE12.D
Calibration Sample, Level: 6
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.125	3.115	(0.364)	90037	5.00000	4.8328
2 Chloromethane	50	3.470	3.460	(0.405)	99491	5.00000	5.4547
3 Vinyl Chloride	62	3.618	3.598	(0.422)	66935	5.00000	5.3464
4 Bromomethane	94	4.219	4.219	(0.492)	32619	5.00000	4.3265
5 Chloroethane	64	4.347	4.338	(0.507)	42046	5.00000	5.2164
6 Trichlorofluoromethane	101	4.761	4.762	(0.555)	104649	5.00000	4.8216
7 Acetone	43	5.303	5.304	(0.618)	46341	5.00000	6.8158
8 Freon 113	101	5.432	5.422	(0.633)	58040	5.00000	4.5608
9 1,1-Dichloroethene	96	5.599	5.600	(0.653)	61714	5.00000	4.8905
10 Methylene Chloride	84	6.211	6.211	(0.724)	91102	5.00000	5.5075
11 Carbon Disulfide	76	6.299	6.300	(0.734)	248247	5.00000	5.0805
12 MTBE	73	6.546	6.546	(0.763)	188009	5.00000	5.3607
13 trans-1,2-Dichloroethene	96	6.704	6.704	(0.782)	76153	5.00000	5.3156
14 Vinyl Acetate	43	7.236	7.236	(0.844)	215951	5.00000	5.3943
15 1,1-Dichloroethane	63	7.265	7.266	(0.847)	141662	5.00000	5.4295
16 2-Butanone	43	7.818	7.808	(0.911)	53599	5.00000	6.0947
17 2,2-Dichloropropane	77	8.133	8.134	(0.948)	95739	5.00000	5.1639
18 cis-1,2-Dichloroethene	96	8.143	8.134	(0.949)	80151	5.00000	5.4408
19 Chloroform	83	8.380	8.380	(0.977)	133253	5.00000	5.3261
* 20 Pentafluorobenzene	168	8.577	8.577	(1.000)	2127403	50.0000	
21 Bromochloromethane	128	8.577	8.577	(1.000)	36966	5.00000	5.1774
§ 22 Dibromofluoromethane	113	8.675	8.676	(1.011)	1310755	50.0000	50.6429

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL. RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.040	9.041	(1.054)	93685	5.00000	5.1493
	24 1,1-Dichloropropene	75	9.287	9.287	(0.924)	96006	5.00000	4.9001
$	25 1,2-Dichloroethane-d4	65	9.395	9.396	(0.935)	1493848	50.0000	50.1194
	26 Carbon Tetrachloride	117	9.454	9.465	(0.941)	73839	5.00000	4.8231
	27 1,2-Dichloroethane	62	9.543	9.534	(0.950)	107436	5.00000	5.4452
	28 Benzene	78	9.651	9.642	(0.961)	298871	5.00000	5.3571
*	29 1,4-Difluorobenzene	114	10.046	10.046	(1.000)	3735987	50.0000	
	30 Trichloroethene	95	10.618	10.618	(1.057)	73268	5.00000	5.2954
$	31 Trifluorotoluene	146	10.706	10.707	(1.066)	95485	5.00000	5.0373(A)
	32 1,2-Dichloropropane	63	10.835	10.835	(1.079)	78109	5.00000	5.3436
	33 Bromodichloromethane	83	11.170	11.160	(1.112)	102684	5.00000	5.2706
	34 Dibromomethane	93	11.219	11.210	(1.117)	59036	5.00000	5.3144
	36 4-Methyl-2-Pentanone	43	11.742	11.732	(1.169)	100398	5.00000	5.5985
	37 Tetramethyl THF	43	11.919	11.920	(1.186)	190329	5.00000	5.2041(A)
	38 cis-1,3-Dichloropropene	75	12.037	12.038	(1.198)	125881	5.00000	5.3334
$	39 Toluene-d8	98	12.521	12.521	(1.246)	3706237	50.0000	50.1632
	40 Toluene	92	12.649	12.649	(1.259)	167254	5.00000	5.3168
	41 trans-1,3-Dichloropropene	75	12.826	12.827	(1.277)	110555	5.00000	5.2718
	42 1,1,2-Trichloroethane	85	13.102	13.093	(1.304)	44324	5.00000	5.7248
	43 2-Hexanone	43	13.152	13.152	(0.874)	71164	5.00000	5.7763
	44 1,3-Dichloropropane	76	13.507	13.507	(0.898)	117411	5.00000	5.3963
	45 Tetrachloroethene	166	13.792	13.793	(0.917)	57714	5.00000	5.0530
	46 Dibromochloromethane	129	13.960	13.961	(0.928)	74181	5.00000	5.3150
	47 1,2-Dibromoethane	107	14.315	14.315	(1.425)	75883	5.00000	5.3003
*	48 Chlorobenzene-d5	117	15.045	15.045	(1.000)	3040973	50.0000	
	49 Chlorobenzene	112	15.104	15.104	(1.004)	183859	5.00000	5.3290
	50 1,1,1,2-Tetrachloroethane	131	15.173	15.173	(1.009)	60169	5.00000	5.2420
	51 Ethylbenzene	91	15.242	15.232	(1.013)	315055	5.00000	5.2655
	52 m,p-Xylenes	106	15.390	15.390	(1.023)	232529	10.0000	10.8940
	53 o-Xylene	106	16.139	16.139	(1.073)	113301	5.00000	5.3605
	54 Styrene	104	16.159	16.159	(1.074)	196436	5.00000	5.3796
	55 Bromoform	173	16.652	16.652	(1.107)	54533	5.00000	5.2946
	56 Isopropylbenzene	105	16.800	16.790	(0.869)	284152	5.00000	5.3067
	57 1,1,2,2-Tetrachloroethane	83	16.957	16.958	(0.877)	102065	5.00000	5.4304
$	58 Bromofluorobenzene	95	17.164	17.165	(0.888)	1681974	50.0000	50.5098
	59 1,2,3-Trichloropropane	110	17.224	17.224	(0.891)	25352	5.00000	5.0850
	60 Bromobenzene	156	17.509	17.519	(0.906)	71822	5.00000	5.4125
	61 Propylbenzene	91	17.519	17.520	(0.906)	371396	5.00000	5.3692
	62 2-Chlorotoluene	91	17.805	17.796	(0.921)	247244	5.00000	5.3933
	63 1,3,5-Trimethylbenzene	105	17.815	17.816	(0.921)	232734	5.00000	5.2867
	64 4-Chlorotoluene	91	17.894	17.885	(0.926)	234343	5.00000	5.4802
	65 tert-Butylbenzene	119	18.456	18.456	(0.955)	205986	5.00000	5.2444
	66 1,2,4-Trimethylbenzene	105	18.525	18.525	(0.958)	846918	5.00000	5.4755
	67 sec-Butylbenzene	105	18.860	18.861	(0.976)	316867	5.00000	5.1819
	68 para-Isopropyl Toluene	119	19.117	19.117	(0.989)	249888	5.00000	5.2974
	69 1,3-Dichlorobenzene	146	19.215	19.216	(0.994)	138866	5.00000	5.4770
*	70 1,4-Dichlorobenzene-d4	152	19.333	19.334	(1.000)	1433551	50.0000	
	71 1,4-Dichlorobenzene	146	19.393	19.393	(1.003)	141681	5.00000	5.4687
	72 n-Butylbenzene	91	19.866	19.866	(1.028)	246085	5.00000	5.1817
	73 1,2-Dichlorobenzene	146	20.063	20.064	(1.038)	131623	5.00000	5.4092
	74 1,2-Dibromo-3-Chloropropane	75	21.433	21.434	(1.109)	17708	5.00000	5.5485
	75 1,2,4-Trichlorobenzene	180	23.060	23.061	(1.193)	80646	5.00000	5.2416
	76 Hexachlorobutadiene	225	23.356	23.357	(1.208)	30361	5.00000	4.9370
	77 Naphthalene	128	23.425	23.426	(1.212)	191521	5.00000	5.0219

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Report Date: 15-Sep-2004 09:37

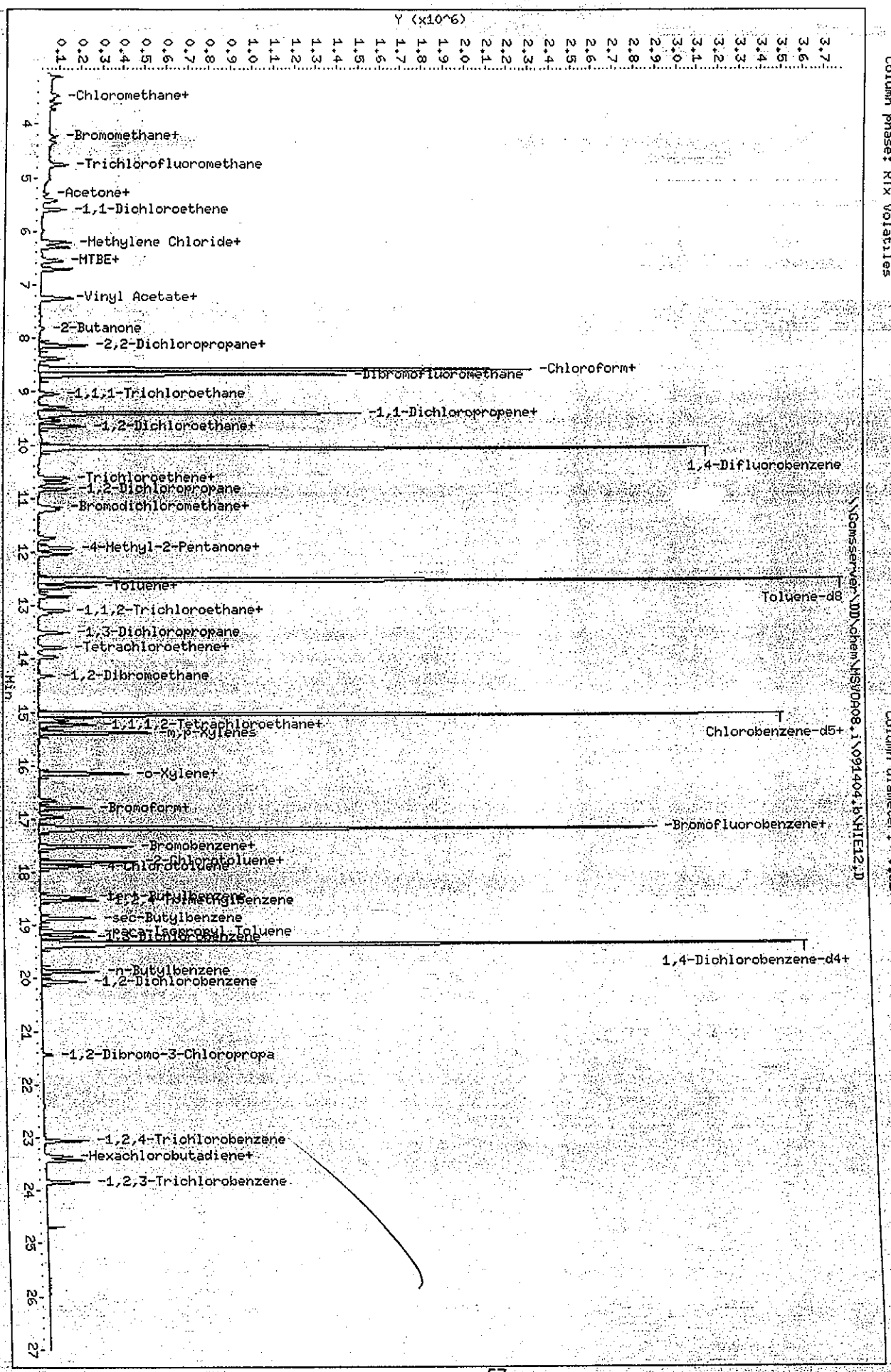
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	*AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
78 1,2,3-Trichlorobenzene	180	23.839	23.840	(1.233)	80968	5.00000	5.2980

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\MSVOA08.i\091404.b\HIE12.D
Date : 14-SEP-2004 17:47
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.005/500,04WS14422F,0.01/500,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 18:23 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.002/100,04WS1422E,0.004/100,
Misc Info : 04WS1715A,0.001/100,10 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 18:23 Cal File: HIE13.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.121	3.115	(0.364)	196486	10.0000	10.2608
2 Chloromethane	50	3.466	3.460	(0.404)	188834	10.0000	10.0726
3 Vinyl Chloride	62	3.614	3.598	(0.421)	131874	10.0000	10.2481
4 Bromomethane	94	4.225	4.219	(0.492)	73992	10.0000	9.5482
5 Chloroethane	64	4.343	4.338	(0.506)	84716	10.0000	10.2254
6 Trichlorofluoromethane	101	4.757	4.762	(0.554)	225380	10.0000	10.1029
7 Acetone	43	5.300	5.304	(0.617)	64777	10.0000	9.4282
8 Freon 113	101	5.428	5.422	(0.632)	130726	10.0000	9.9942
9 1,1-Dichloroethene	96	5.595	5.600	(0.652)	132957	10.0000	10.2507
10 Methylene Chloride	84	6.207	6.211	(0.723)	170742	10.0000	10.1518
11 Carbon Disulfide	76	6.295	6.300	(0.734)	504386	10.0000	10.0429
12 MTBE	73	6.542	6.546	(0.762)	355914	10.0000	9.8732
13 trans-1,2-Dichloroethene	96	6.710	6.704	(0.782)	146627	10.0000	9.9576
14 Vinyl Acetate	43	7.242	7.236	(0.844)	399073	10.0000	9.6985
15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	268576	10.0000	10.0149
16 2-Butanone	43	7.814	7.808	(0.910)	91331	10.0000	10.1039
17 2,2-Dichloropropane	77	8.139	8.134	(0.948)	195610	10.0000	10.2649
18 cis-1,2-Dichloroethene	96	8.139	8.134	(0.948)	154008	10.0000	10.1711
19 Chloroform	83	8.386	8.380	(0.977)	255673	10.0000	9.9424
* 20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2186649	50.0000	
21 Bromochloromethane	128	8.583	8.577	(1.000)	73534	10.0000	10.0200
$ 22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1320514	50.0000	49.6376

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.046	9.041	(1.054)	188735	10.0000	10.1012
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	198839	10.0000	10.0060
$	25 1,2-Dichloroethane-d4	65	9.401	9.396	(0.935)	1504922	50.0000	49.7813
	26 Carbon Tetrachloride	117	9.460	9.465	(0.941)	155101	10.0000	9.9888
	27 1,2-Dichloroethane	62	9.539	9.534	(0.949)	200509	10.0000	10.0197
	28 Benzene	78	9.648	9.642	(0.960)	556709	10.0000	9.8385
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	3789238	50.0000	
	30 Trichloroethene	95	10.624	10.618	(1.057)	141353	10.0000	10.0727
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	197104	10.0000	10.2521(A)
	32 1,2-Dichloropropane	63	10.831	10.835	(1.077)	144902	10.0000	9.7737
	33 Bromodichloromethane	83	11.166	11.160	(1.111)	194457	10.0000	9.8410
	34 Dibromomethane	93	11.215	11.210	(1.116)	111541	10.0000	9.8997
	35 2-Chloroethylvinylether	63	11.708	11.732	(1.165)	235	10.0000	9.9249
	36 4-Methyl-2-Pentanone	43	11.738	11.732	(1.168)	180033	10.0000	9.8981
	37 Tetramethyl THF	43	11.915	11.920	(1.185)	363306	10.0000	9.7942(A)
	38 cis-1,3-Dichloroprope...	75	12.034	12.038	(1.197)	234355	10.0000	9.7897
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3759606	50.0000	50.1704
	40 Toluene	92	12.645	12.649	(1.258)	322965	10.0000	10.1224
	41 trans-1,3-Dichloropropene	75	12.832	12.827	(1.277)	210584	10.0000	9.9006
	42 1,1,2-Trichloroethane	85	13.098	13.093	(1.303)	75593	10.0000	9.6262
	43 2-Hexanone	43	13.148	13.152	(0.874)	119457	10.0000	9.6224
	44 1,3-Dichloropropane	76	13.513	13.507	(0.898)	218994	10.0000	9.9887
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	118772	10.0000	10.3197
	46 Dibromochloromethane	129	13.956	13.961	(0.928)	142616	10.0000	10.1406
	47 1,2-Dibromoethane	107	14.321	14.315	(1.425)	144331	10.0000	9.9396
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	3064269	50.0000	
	49 Chlorobenzene	112	15.110	15.104	(1.005)	349561	10.0000	10.0548
	50 1,1,1,2-Tetrachloroethane	131	15.169	15.173	(1.009)	116782	10.0000	10.0970
	51 Ethylbenzene	91	15.238	15.232	(1.013)	607864	10.0000	10.0821
	52 m,p-Xylenes	106	15.386	15.390	(1.023)	445693	20.0000	20.7221
	53 o-Xylene	106	16.135	16.139	(1.073)	220112	10.0000	10.3348
	54 Styrene	104	16.165	16.159	(1.075)	375150	10.0000	10.1958
	55 Bromoform	173	16.648	16.652	(1.107)	98220	10.0000	9.4636
	56 Isopropylbenzene	105	16.796	16.790	(0.868)	546640	10.0000	9.9434
	57 1,1,2,2-Tetrachloroethane	83	16.963	16.959	(0.877)	190482	10.0000	9.8712
$	58 Bromofluorobenzene	95	17.170	17.165	(0.888)	1700453	50.0000	49.7370
	59 1,2,3-Trichloropropane	110	17.220	17.224	(0.890)	65905	10.0000	9.7011
	60 Bromobenzene	156	17.515	17.510	(0.906)	136532	10.0000	10.0215
	61 Propylbenzene	91	17.525	17.520	(0.906)	715907	10.0000	10.0806
	62 2-Chlorotoluene	91	17.801	17.796	(0.920)	482584	10.0000	10.2532
	63 1,3,5-Trimethylbenzene	105	17.811	17.806	(0.921)	454793	10.0000	10.0602
	64 4-Chlorotoluene	91	17.890	17.885	(0.925)	424534	10.0000	9.6712
	65 tert-Butylbenzene	119	18.462	18.456	(0.955)	401577	10.0000	9.9571(M) Lw 9-15-04
	66 1,2,4-Trimethylbenzene	105	18.521	18.525	(0.958)	451285	10.0000	9.9621
	67 sec-Butylbenzene	105	18.866	18.861	(0.976)	631035	10.0000	10.0641
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	488433	10.0000	10.0852
	69 1,3-Dichlorobenzene	146	19.211	19.216	(0.993)	260411	10.0000	10.0038
*	70 1,4-Dichlorobenzene-d4	152	19.339	19.334	(1.000)	1471822	50.0000	
	71 1,4-Dichlorobenzene	146	19.389	19.393	(1.003)	265064	10.0000	9.9652
	72 n-Butylbenzene	91	19.862	19.866	(1.027)	491028	10.0000	10.0705
	73 1,2-Dichlorobenzene	146	20.059	20.064	(1.037)	249144	10.0000	9.9727
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	31919	10.0000	9.7413
	75 1,2,4-Trichlorobenzene	180	23.056	23.061	(1.192)	154203	10.0000	9.7619
	76 Hexachlorobutadiene	225	23.352	23.357	(1.207)	64169	10.0000	10.1633

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Report Date: 15-Sep-2004 09:37

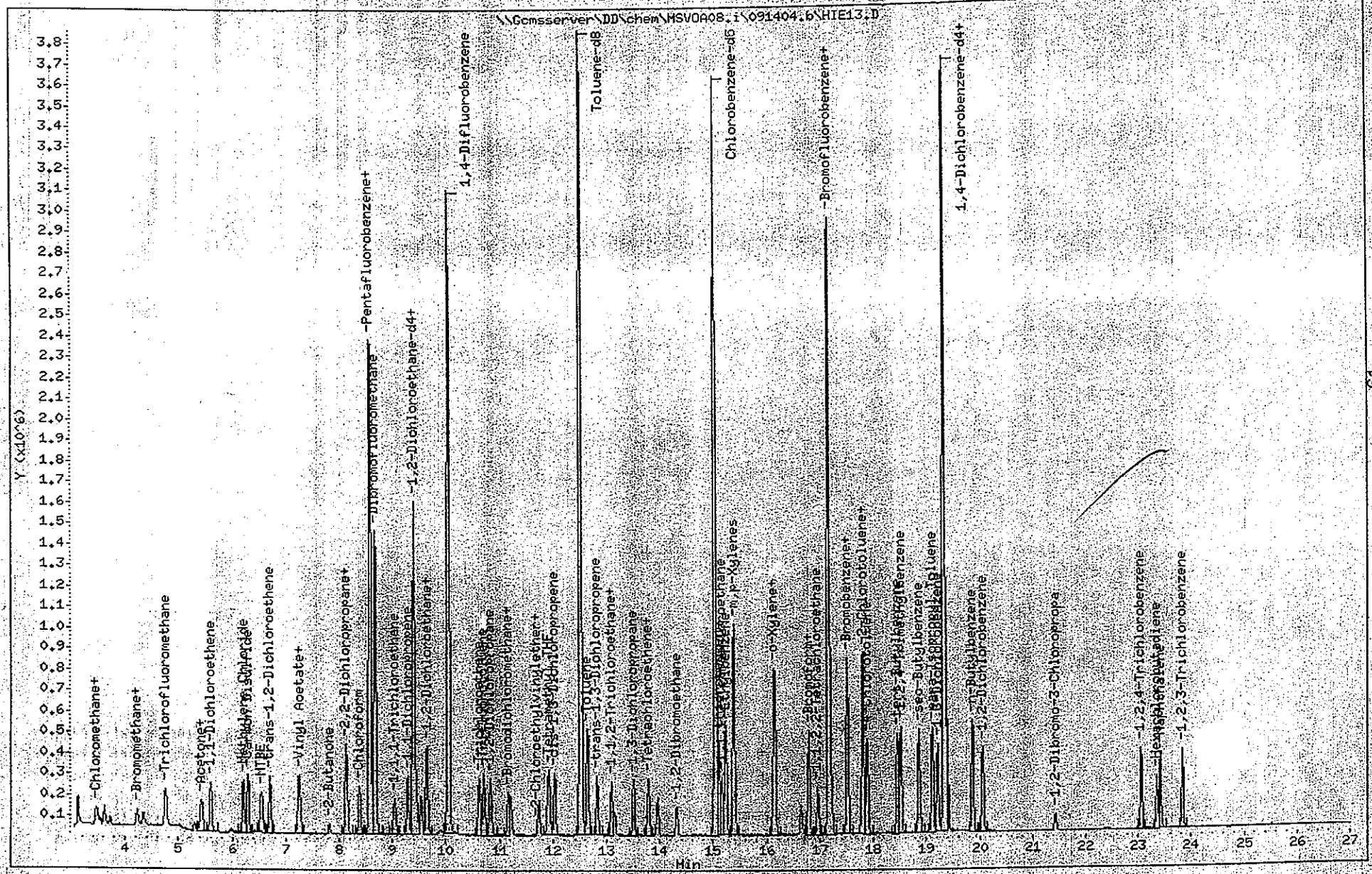
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.421	23.426	(1.211)	369790	10.0000	9.4442
78 1,2,3-Trichlorobenzene	180	23.845	23.840	(1.233)	153894	10.0000	9.8080

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE13.D
Date : 14-SEP-2004 18:23
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.002/100,04WS1422E,0.004/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 18:59 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.004/100,04WS1422E,0.008/100,
Misc Info : 04WS1715A,0.002/100,20 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 18:59 Cal File: HIE14.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	QU-COL (ug/L)
1 Freon 12	85	3.119	3.115	(0.363)	396112	20.0000	20.0854
2 Chloromethane	50	3.474	3.460	(0.405)	382331	20.0000	19.8022
3 Vinyl Chloride	62	3.612	3.598	(0.421)	274244	20.0000	20.6935
4 Bromomethane	94	4.223	4.219	(0.492)	163439	20.0000	20.4787
5 Chloroethane	64	4.342	4.338	(0.506)	170322	20.0000	19.9617
6 Trichlorofluoromethane	101	4.756	4.762	(0.554)	463855	20.0000	20.1895
7 Acetone	43	5.298	5.304	(0.617)	130198	20.0000	18.8205
8 Freon 113	101	5.426	5.422	(0.632)	255200	20.0000	18.9444
9 1,1-Dichloroethene	96	5.604	5.600	(0.653)	262501	20.0000	19.6509
10 Methylene Chloride	84	6.205	6.211	(0.723)	339186	20.0000	19.6824
11 Carbon Disulfide	76	6.294	6.300	(0.733)	1011322	20.0000	19.5522
12 MTBE	73	6.550	6.546	(0.763)	743684	20.0000	20.0315
13 trans-1,2-Dichloroethene	96	6.708	6.704	(0.782)	291034	20.0000	19.1910
14 Vinyl Acetate	43	7.240	7.236	(0.844)	830907	20.0000	19.6072
15 1,1-Dichloroethane	63	7.260	7.266	(0.846)	549440	20.0000	19.8936
16 2-Butanone	43	7.812	7.808	(0.910)	183864	20.0000	19.7506
17 2,2-Dichloropropane	77	8.137	8.134	(0.948)	380533	20.0000	19.3895
18 cis-1,2-Dichloroethene	96	8.137	8.134	(0.948)	308387	20.0000	19.7758
19 Chloroform	83	8.384	8.380	(0.977)	524798	20.0000	19.8157
* 20 Pentafluorobenzene	168	8.581	8.577	(1.000)	2251998	50.0000	
21 Bromochloromethane	128	8.581	8.577	(1.000)	148601	20.0000	19.6613
$ 22 Dibromofluoromethane	113	8.670	8.676	(1.010)	1363017	50.0000	49.7485

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.044	9.041	(1.054)	379024	20.0000	19.6970
	24 1,1-Dichloropropene	75	9.291	9.287	(0.924)	395612	20.0000	19.2989
$	25 1,2-Dichloroethane-d4	65	9.399	9.396	(0.935)	1557327	50.0000	49.9382
	26 Carbon Tetrachloride	117	9.459	9.465	(0.941)	313446	20.0000	19.5688
	27 1,2-Dichloroethane	62	9.537	9.534	(0.949)	409053	20.0000	19.8154
	28 Benzene	78	9.646	9.642	(0.960)	1118987	20.0000	19.1703
*	29 1,4-Difluorobenzene	114	10.050	10.046	(1.000)	3908873	50.0000	
	30 Trichloroethene	95	10.622	10.618	(1.057)	277097	20.0000	19.1415
6	31 Trifluorotoluene	146	10.711	10.707	(1.066)	388944	20.0000	19.6113(A)
	32 1,2-Dichloropropane	63	10.829	10.835	(1.077)	300948	20.0000	19.6779
	33 Bromodichloromethane	83	11.164	11.160	(1.111)	398111	20.0000	19.5308
	34 Dibromomethane	93	11.214	11.210	(1.116)	229942	20.0000	19.7838
	35 2-Chloroethylvinylether	63	11.746	11.732	(1.169)	467	20.0000	19.1195(M)
	36 4-Methyl-2-Pentanone	43	11.736	11.732	(1.168)	386754	20.0000	20.6128
	37 Tetramethyl THP	43	11.923	11.920	(1.186)	736865	20.0000	19.2567(A)
	38 cis-1,3-Dichloropropene	75	12.032	12.038	(1.197)	488227	20.0000	19.7705
$	39 Toluene-d8	98	12.515	12.521	(1.245)	3852146	50.0000	49.8320
	40 Toluene	92	12.643	12.649	(1.258)	644302	20.0000	19.5757
	41 trans-1,3-Dichloropropene	75	12.830	12.827	(1.277)	429212	20.0000	19.5619
	42 1,1,2-Trichloroethane	85	13.097	13.093	(1.303)	155492	20.0000	19.1948
	43 2-Hexanone	43	13.156	13.152	(0.875)	260385	20.0000	20.1532
	44 1,3-Dichloropropane	76	13.511	13.507	(0.898)	458747	20.0000	20.1049
	45 Tetrachloroethene	166	13.787	13.793	(0.917)	235135	20.0000	19.6302
	46 Dibromochloromethane	129	13.964	13.961	(0.929)	290685	20.0000	19.8597
	47 1,2-Dibromoethane	107	14.319	14.315	(1.425)	301038	20.0000	20.0971
*	48 Chlorobenzene-d5	117	15.039	15.045	(1.000)	3189145	50.0000	
	49 Chlorobenzene	112	15.108	15.104	(1.005)	727840	20.0000	20.1160
	50 1,1,1,2-Tetrachloroethane	131	15.167	15.173	(1.009)	236108	20.0000	19.6146
	51 Ethylbenzene	91	15.236	15.232	(1.013)	1225036	20.0000	19.5230
	52 m,p-Xylenes	106	15.384	15.390	(1.023)	887132	40.0000	39.6314
	53 o-Xylene	106	16.133	16.139	(1.073)	449771	20.0000	19.8850
	54 Styrene	104	16.163	16.159	(1.075)	765352	20.0000	19.9861
	55 Bromoform	173	16.656	16.662	(1.108)	204257	20.0000	18.9099
	56 Isopropylbenzene	105	16.794	16.790	(0.868)	1110458	20.0000	20.2083
	57 1,1,2,2-Tetrachloroethane	83	16.962	16.958	(0.877)	398729	20.0000	20.6722
$	58 Bromofluorobenzene	95	17.169	17.165	(0.888)	1720582	50.0000	50.3480
	59 1,2,3-Trichloropropane	110	17.228	17.224	(0.891)	96346	20.0000	20.6136
	60 Bromobenzene	156	17.514	17.510	(0.906)	278336	20.0000	19.8664
	61 Propylbenzene	91	17.524	17.520	(0.906)	1437438	20.0000	20.2495
	62 2-Chlorotoluene	91	17.800	17.796	(0.920)	925374	20.0000	19.8802
	63 1,3,5-Trimethylbenzene	105	17.819	17.816	(0.921)	908045	20.0000	20.0952
	64 4-Chlorotoluene	91	17.868	17.865	(0.925)	861821	20.0000	19.6402
	65 tert-Butylbenzene	119	18.460	18.456	(0.955)	827830	20.0000	20.5254
	66 1,2,4-Trimethylbenzene	105	18.519	18.525	(0.958)	922097	20.0000	19.9251
	67 sec-Butylbenzene	105	18.864	18.861	(0.976)	1236072	20.0000	19.7224
	68 para-Isopropyl Toluene	119	19.111	19.117	(0.988)	970244	20.0000	20.0427
	69 1,3-Dichlorobenzene	146	19.219	19.216	(0.994)	507382	20.0000	19.5000
*	70 1,4-Dichlorobenzene-d4	152	19.338	19.334	(1.000)	1471168	50.0000	
	71 1,4-Dichlorobenzene	146	19.397	19.393	(1.003)	522713	20.0000	19.6604
	72 n-Butylbenzene	91	19.860	19.866	(1.027)	983723	20.0000	20.1842
	73 1,2-Dichlorobenzene	146	20.057	20.064	(1.037)	501873	20.0000	20.0979
	74 1,2-Dibromo-3-Chloropropane	75	21.428	21.434	(1.108)	66994	20.0000	20.4550
	75 1,2,4-Trichlorobenzene	180	23.065	23.061	(1.193)	320062	20.0000	20.2707
	76 Hexachlorobutadiene	225	23.360	23.357	(1.208)	126583	20.0000	20.0577

EW 9-15-04

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Report Date: 15-Sep-2004 09:37

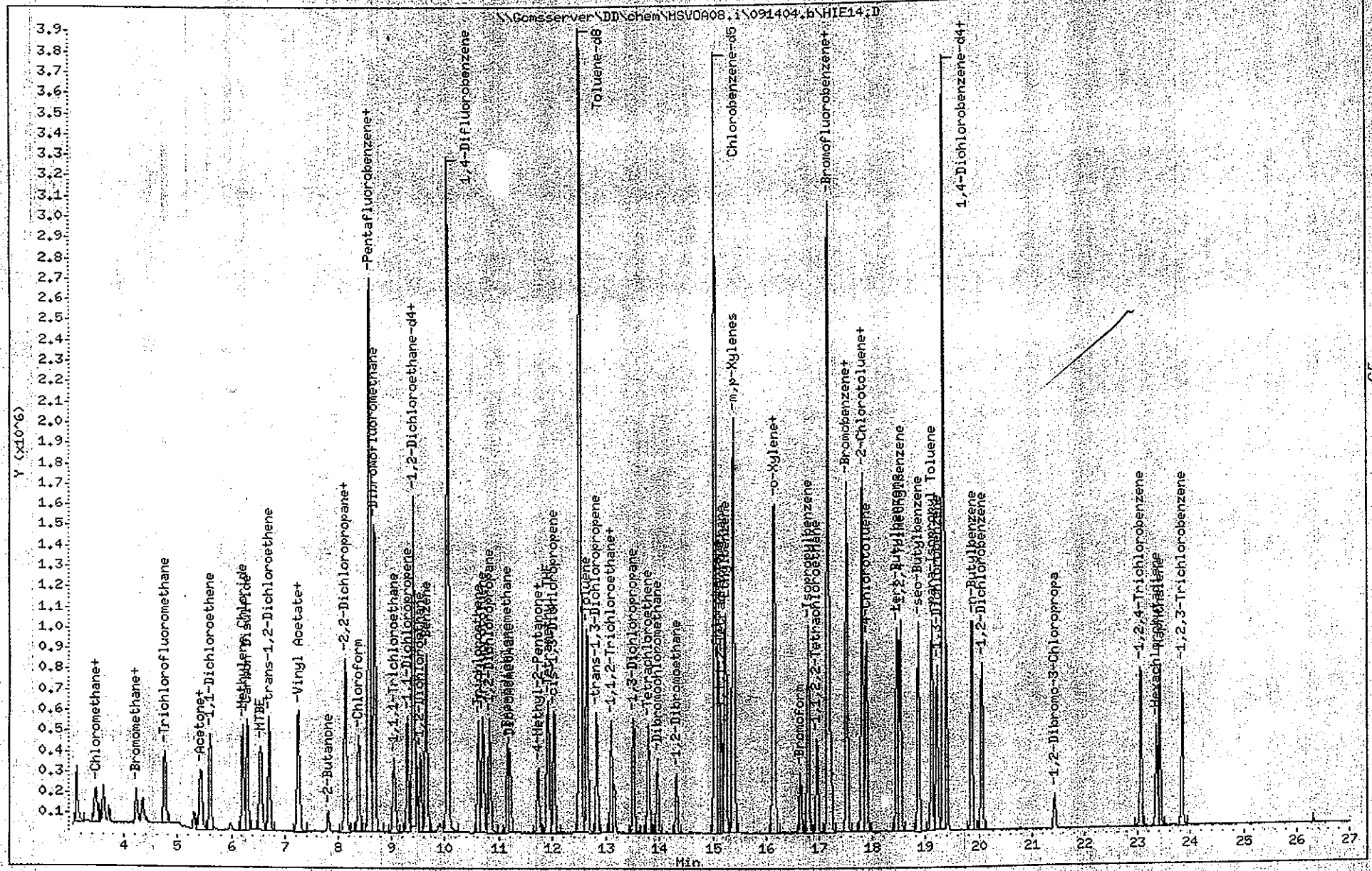
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.419	23.426	(1.211)	809831	20.0000	20.6918
78 1,2,3-Trichlorobenzene	180	23.843	23.840	(1.233)	315543	20.0000	20.1192

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE14.D
Date : 14-SEP-2004 18:59
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.004/100,04WS1422E,0.008/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 19:35 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.01/100,04WS1422E,0.02/100,
Misc Info : 04WS1715A,0.005/100,50 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 19:35 Cal File: HIE15.D
Alq bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/D)
1 Freon 12	85	3.121	3.115	(0.364)	990709	50.0000	48.2368
2 Chloromethane	50	3.466	3.460	(0.404)	978524	50.0000	48.6647
3 Vinyl Chloride	62	3.604	3.598	(0.420)	655281	50.0000	47.4781
4 Bromomethane	94	4.225	4.219	(0.492)	456379	50.0000	54.9088
5 Chloroethane	64	4.343	4.338	(0.506)	437608	50.0000	49.2473
6 Trichlorofluoromethane	101	4.757	4.762	(0.554)	1186548	50.0000	49.5905
7 Acetone	43	5.300	5.304	(0.617)	349725	50.0000	49.2399
8 Freon 113	101	5.428	5.422	(0.632)	671175	50.0000	47.8416
9 1,1-Dichloroethene	96	5.595	5.600	(0.652)	679163	50.0000	48.8198
10 Methylene Chloride	84	6.207	6.211	(0.723)	876855	50.0000	48.6086
11 Carbon Disulfide	76	6.296	6.300	(0.734)	2632995	50.0000	48.8795
12 MTBE	73	6.542	6.546	(0.762)	1908983	50.0000	49.3739
13 trans-1,2-Dichloroethene	96	6.700	6.704	(0.781)	762713	50.0000	48.2930
14 Vinyl Acetate	43	7.232	7.236	(0.843)	2087913	50.0000	47.3095
15 1,1-Dichloroethane	63	7.262	7.266	(0.846)	1407119	50.0000	48.9208
16 2-Butanone	43	7.814	7.808	(0.910)	460102	50.0000	47.4578
17 2,2-Dichloropropane	77	8.129	8.134	(0.947)	983862	50.0000	48.1368
18 cis-1,2-Dichloroethene	96	8.139	8.134	(0.948)	802384	50.0000	49.4072
19 Chloroform	83	8.386	8.380	(0.977)	1360766	50.0000	49.3368
* 20 Pentafluorobenzene	168	8.583	8.577	(1.000)	2345303	50.0000	
21 Bromochloromethane	128	8.583	8.577	(1.000)	397432	50.0000	50.4922
$ 22 Dibromofluoromethane	113	8.672	8.676	(1.010)	1416320	50.0000	49.6374

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.046	9.041	(1.054)	997933	50.0000	49.7970
	24 1,1-Dichloropropene	75	9.293	9.287	(0.924)	1033655	50.0000	48.7661
$	25 1,2-Dichloroethane-d4	65	9.401	9.396	(0.935)	1585412	50.0000	49.1670
	26 Carbon Tetrachloride	117	9.460	9.465	(0.941)	827115	50.0000	49.9397
	27 1,2-Dichloroethane	62	9.539	9.534	(0.949)	1070718	50.0000	50.1624
	28 Benzene	78	9.648	9.642	(0.960)	2923133	50.0000	48.4319
*	29 1,4-Difluorobenzene	114	10.052	10.046	(1.000)	4041778	50.0000	
	30 Trichlorethene	95	10.614	10.618	(1.056)	736158	50.0000	49.1807
$	31 Trifluorotoluene	146	10.703	10.707	(1.065)	1025849	50.0000	50.0244(A)
	32 1,2-Dichloropropane	63	10.831	10.885	(1.077)	794711	50.0000	50.2647
	33 Bromodichloromethane	83	11.166	11.160	(1.111)	1039827	50.0000	49.3353
	34 Dibromomethane	93	11.215	11.210	(1.116)	595954	50.0000	49.5896
	35 2-Chloroethylvinylether	63	11.728	11.732	(1.167)	13224	50.0000	52.3445
	36 4-Methyl-2-Pentanone	43	11.728	11.732	(1.167)	927757	50.0000	47.8208
	37 Tetramethyl THF	43	11.915	11.920	(1.185)	1861948	50.0000	47.0894(A)
	38 cis-1,3-Dichloropropene	75	12.034	12.038	(1.197)	1259425	50.0000	49.3229
$	39 Toluene-d8	98	12.517	12.521	(1.245)	3940984	50.0000	49.3048
	40 Toluene	92	12.645	12.649	(1.258)	1660133	50.0000	48.7810
	41 trans-1,3-Dichloropropene	75	12.832	12.827	(1.277)	1147068	50.0000	50.5600
	42 1,1,2-Trichloroethane	85	13.099	13.093	(1.303)	422069	50.0000	50.3894
	43 2-Hexanone	43	13.148	13.152	(0.874)	646176	50.0000	48.4804
	44 1,3-Dichloropropane	76	13.513	13.507	(0.898)	1180421	50.0000	50.1480
	45 Tetrachloroethene	166	13.789	13.793	(0.917)	622844	50.0000	50.4050
	46 Dibromochloromethane	129	13.956	13.961	(0.928)	763461	50.0000	50.5621
	47 1,2-Dibromoethane	107	14.321	14.315	(1.425)	768417	50.0000	49.6122
*	48 Chlorobenzene-d5	117	15.041	15.045	(1.000)	3289931	50.0000	
	49 Chlorobenzene	112	15.110	15.104	(1.005)	1824468	50.0000	48.8798
	50 1,1,1,2-Tetrachloroethane	131	15.169	15.173	(1.009)	624737	50.0000	50.3100
	51 Ethylbenzene	91	15.238	15.232	(1.013)	3226310	50.0000	49.8417
	52 m/p-Xylenes	106	15.386	15.390	(1.023)	2301016	100.000	99.6456
	53 o-Xylene	106	16.135	16.139	(1.073)	1128408	50.0000	49.3476
	54 Styrene	104	16.155	16.159	(1.074)	1962400	50.0000	49.6756
	55 Bromoform	173	16.648	16.652	(1.107)	530545	50.0000	47.6126
	56 Isopropylbenzene	105	16.796	16.790	(0.860)	2800645	50.0000	49.9759
	57 1,1,2,2-Tetrachloroethane	83	16.963	16.958	(0.871)	1015857	50.0000	50.0357
$	58 Bromofluorobenzene	95	17.170	17.165	(0.888)	1796554	50.0000	49.9443
	59 1,2,3-Trichloropropane	110	17.220	17.224	(0.890)	247457	50.0000	51.2473
	60 Bromobenzene	156	17.516	17.510	(0.906)	728922	50.0000	50.5736
	61 Propylbenzene	91	17.525	17.520	(0.906)	3731110	50.0000	49.9349
	62 2-Chlorotoluene	91	17.801	17.796	(0.920)	2424277	50.0000	48.9556
	63 1,3,5-Trimethylbenzene	105	17.811	17.816	(0.921)	2384823	50.0000	50.1396
	64 4-Chlorotoluene	91	17.890	17.885	(0.925)	2334726	50.0000	50.5444
	65 tert-Butylbenzene	119	18.462	18.456	(0.955)	2103732	50.0000	49.5840
	66 1,2,4-Trimethylbenzene	105	18.521	18.525	(0.958)	2419834	50.0000	49.6762
	67 sec-Butylbenzene	105	18.866	18.861	(0.976)	3246177	50.0000	49.2070
	68 para-Isopropyl Toluene	119	19.113	19.117	(0.988)	2570823	50.0000	50.4529
	69 1,3-Dichlorobenzene	146	19.211	19.216	(0.993)	1348490	50.0000	49.2363
*	70 1,4-Dichlorobenzene-d4	152	19.340	19.334	(1.000)	1548545	50.0000	
	71 1,4-Dichlorobenzene	146	19.399	19.393	(1.003)	1406598	50.0000	50.2618
	72 n-Butylbenzene	91	19.862	19.866	(1.027)	2579537	50.0000	50.2827
	73 1,2-Dichlorobenzene	146	20.059	20.064	(1.037)	1299497	50.0000	49.4392
	74 1,2-Dibromo-3-Chloropropane	75	21.430	21.434	(1.108)	166077	50.0000	48.1738
	75 1,2,4-Trichlorobenzene	180	23.057	23.061	(1.192)	836658	50.0000	50.3410
	76 Hexachlorobutadiene	225	23.352	23.357	(1.207)	330626	50.0000	49.7716

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Report Date: 15-Sep-2004 09:37

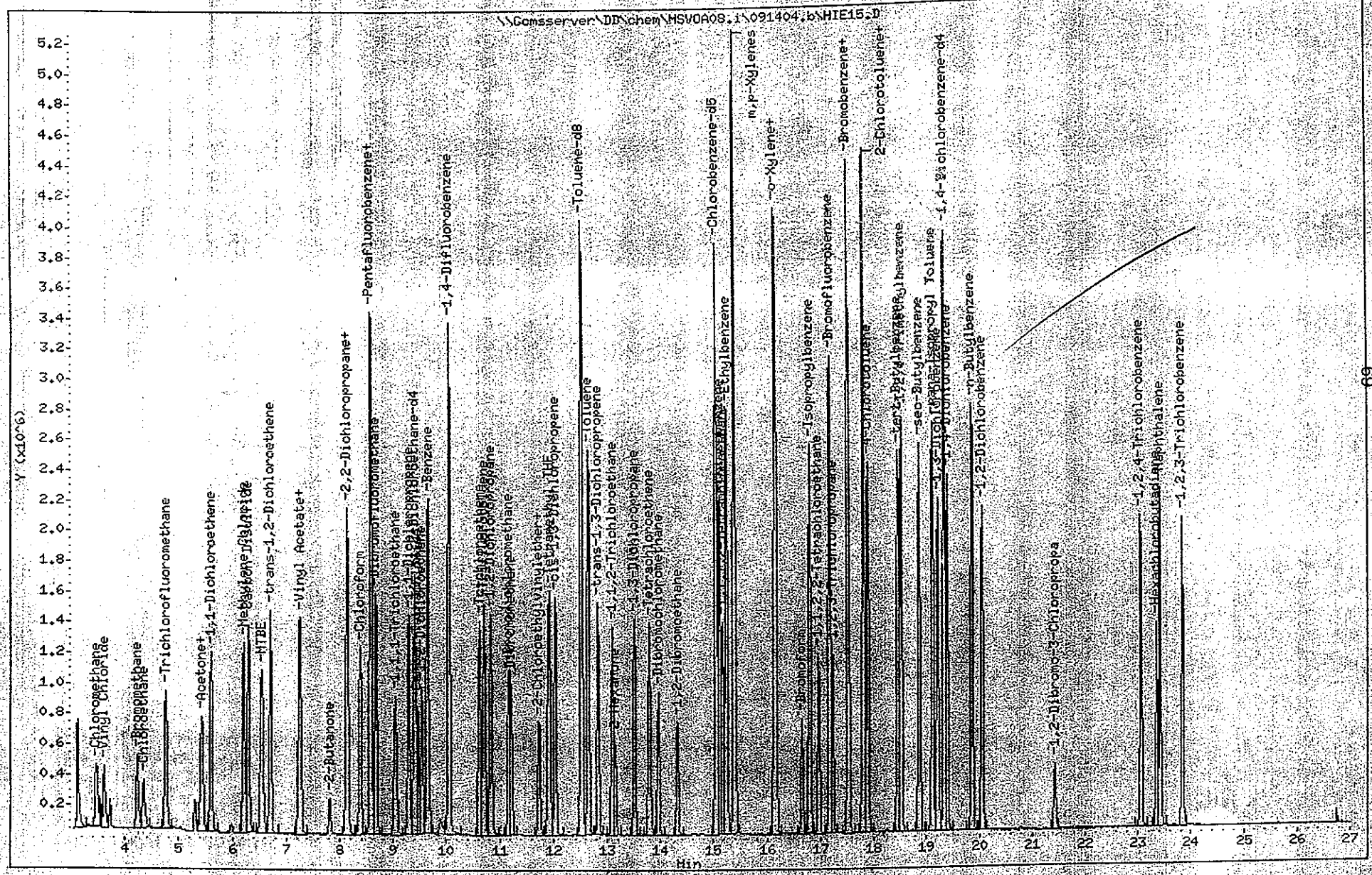
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	* 23.421	23.426	(1.211)	2223065	50.0000	53.9630
78 1,2,3-Trichlorobenzene	180	23.845	23.840	(1.233)	828872	50.0000	50.2086

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE15.D
Date : 14-SEP-2004 19:35
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.01/100,04WS1422E,0.02/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 20:12 MS Autotune Date: 14-SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.015/100,04WS1422E,0.03/100,
Misc Info : 04WS1715A,0.0075/100,75 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:12 Cal File: HIE16.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ug/L)	AMOUNTS ON COL (ug/L)
1 Freon 12	85	3.116	3.115	(0.363)	1552751	75.0000	74.8856
2 Chloromethane	50	3.461	3.460	(0.404)	1520054	75.0000	74.8800
3 Vinyl Chloride	62	3.599	3.598	(0.420)	1011683	75.0000	72.6063
4 Bromomethane	94	4.220	4.219	(0.492)	758323	75.0000	91.5639
5 Chloroethane	64	4.219	4.330	(0.505)	557610	75.0000	76.6506
6 Trichlorofluoromethane	101	4.763	4.762	(0.555)	2318[illegible]	75.0000	75.5013
7 Acetone	43	5.505	5.504	(0.642)	541087	75.0000	75.6953
8 Freon 113	101	5.423	5.422	(0.632)	1361761	75.0000	74.2734
9 1,1-Dichloroethene	96	5.603	5.600	(0.653)	[illegible]	75.0000	74.3661
10 Methylene Chloride	84	6.212	6.211	(0.724)	[illegible]	75.0000	71.6194
11 Carbon Disulfide	76	6.301	6.302	(0.735)	[illegible]	75.0000	73.4101
12 MTBE	73	6.537	6.535	(0.762)	[illegible]	75.0000	73.2554
13 trans-1,2-Dichloroethene	96	6.705	6.704	(0.782)	1144244	75.0000	71.7638
14 Vinyl Acetate	43	7.237	7.236	(0.844)	3144368	75.0000	70.5721
15 1,1-Dichloroethane	63	7.267	7.266	(0.847)	2099454	75.0000	72.2991
16 2-Butanone	43	7.809	7.808	(0.910)	698629	75.0000	71.3779
17 2,2-Dichloropropane	77	8.135	8.134	(0.948)	1497692	75.0000	72.5822
18 cis-1,2-Dichloroethene	96	8.135	8.134	(0.948)	1213478	75.0000	74.0123
19 Chloroform	83	8.381	8.380	(0.977)	2016692	75.0000	72.4254
* 20 Pentafluorobenzene	168	8.578	8.577	(1.000)	2367746	50.0000	
21 Bromochloromethane	128	8.578	8.577	(1.000)	589895	75.0000	74.2335
$ 22 Dibromofluoromethane	113	8.677	8.676	(1.011)	1443395	50.0000	50.1068

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.042	9.041	(1.054)	1522299	75.0000	75.2430
	24 1,1-Dichloropropene	75	9.288	9.287	(0.924)	1580340	75.0000	73.1088
$	25 1,2-Dichloroethane-d4	65	9.397	9.396	(0.935)	1622550	50.0000	49.3409
	26 Carbon Tetrachloride	117	9.456	9.465	(0.941)	1291566	75.0000	76.4669
	27 1,2-Dichloroethane	62	9.535	9.534	(0.949)	1590185	75.0000	73.0512
	28 Benzene	78	9.643	9.642	(0.960)	4424564	75.0000	71.8837
*	29 1,4-Difluorobenzene	114	10.047	10.046	(1.000)	4121884	50.0000	
	30 Trichloroethene	95	10.619	10.618	(1.057)	1111215	75.0000	72.7945
$	31 Trifluorotoluene	146	10.708	10.707	(1.066)	1563699	75.0000	74.7701(A)
	32 1,2-Dichloropropane	63	10.836	10.835	(1.079)	1175261	75.0000	72.8750
	33 Bromodichloromethane	83	11.161	11.160	(1.111)	1573269	75.0000	73.1942
	34 Dibromomethane	93	11.211	11.210	(1.116)	888485	75.0000	72.4933
	35 2-Chloroethylvinylether	63	11.733	11.732	(1.168)	2123	75.0000	82.4264(M) EW 9-15-04
	36 4-Methyl-2-Pentanone	43	11.733	11.732	(1.168)	1414532	75.0000	71.4944
	37 Tetramethyl THF	43	11.921	11.920	(1.186)	2799439	75.0000	69.3788(A)
	38 cis-1,3-Dichloropropene	75	12.039	12.038	(1.198)	1910826	75.0000	73.3795
$	39 Toluene-d8	98	12.522	12.521	(1.246)	4069672	50.0000	49.9253
	40 Toluene	92	12.650	12.649	(1.259)	2543103	75.0000	75.2738
	41 trans-1,3-Dichloropropene	75	12.828	12.827	(1.277)	1720026	75.0000	74.3412
	42 1,1,2-Trichloroethane	85	13.094	13.093	(1.303)	631920	75.0000	73.9767
	43 2-Hexanone	43	13.153	13.152	(0.875)	985818	75.0000	72.6135
	44 1,3-Dichloropropane	76	13.508	13.507	(0.898)	1773804	75.0000	73.9829
	45 Tetrachloroethene	166	13.794	13.793	(0.917)	956128	75.0000	75.9655
	46 Dibromochloromethane	129	13.961	13.961	(0.929)	1159177	75.0000	75.3691
	47 1,2-Dibromoethane	107	14.316	14.315	(1.425)	1153260	75.0000	73.0122
*	48 Chlorobenzene-d5	117	15.036	15.045	(1.000)	3351054	50.0000	
	49 Chlorobenzene	112	15.105	15.104	(1.005)	2768005	75.0000	72.8057
	50 1,1,1,2-Tetrachloroethane	131	15.174	15.173	(1.009)	942430	75.0000	74.5094
	51 Ethylbenzene	91	15.233	15.232	(1.013)	4925564	75.0000	74.7047
	52 m,p-Xylenes	106	15.391	15.390	(1.024)	3426015	150.000	145.6577
	53 o-Xylene	106	16.140	16.139	(1.073)	1666501	75.0000	71.5602
	54 Styrene	104	16.260	16.159	(1.075)	2899733	75.0000	72.0641
	55 Bromoform	173	16.653	16.652	(1.108)	810110	75.0000	71.4019
	56 Isopropylbenzene	105	16.791	16.790	(0.868)	4943516	75.0000	72.6016
	57 1,1,2,2-Tetrachloroethane	83	16.959	16.958	(0.873)	1547699	75.0000	73.0239
$	58 Bromofluorobenzene	95	17.166	17.165	(0.888)	1669385	50.0000	50.2116
	59 1,2,3-Trichloropropane	110	17.225	17.224	(0.891)	367355	75.0000	73.1595
	60 Bromobenzene	156	17.511	17.510	(0.906)	1081364	75.0000	72.2707
	61 Propylbenzene	91	17.521	17.520	(0.906)	563910	75.0000	72.2582
	62 2-Chlorotoluene	91	17.797	17.796	(0.920)	3700679	75.0000	71.5912
	63 1,3,5-Trimethylbenzene	105	17.817	17.816	(0.921)	3638767	75.0000	73.2887
	64 4-Chlorotoluene	91	17.886	17.885	(0.925)	3573003	75.0000	74.1017
	65 tert-Butylbenzene	119	18.457	18.456	(0.955)	3307833	75.0000	74.6884
	66 1,2,4-Trimethylbenzene	105	18.526	18.525	(0.958)	3733847	75.0000	73.4306
	67 sec-Butylbenzene	105	18.862	18.861	(0.976)	5013324	75.0000	72.7721
	68 para-Isopropyl Toluene	119	19.108	19.117	(0.988)	3924839	75.0000	73.7893
	69 1,3-Dichlorobenzene	146	19.217	19.216	(0.994)	2051112	75.0000	71.7440
*	70 1,4-Dichlorobenzene-d4	152	19.335	19.334	(1.000)	1616464	50.0000	
	71 1,4-Dichlorobenzene	146	19.394	19.393	(1.003)	2142852	75.0000	73.3530
	72 n-Butylbenzene	91	19.867	19.866	(1.028)	3954181	75.0000	73.8400
	73 1,2-Dichlorobenzene	146	20.064	20.064	(1.038)	1998476	75.0000	72.8371
	74 1,2-Dibromo-3-Chloropropane	75	21.435	21.434	(1.109)	255706	75.0000	71.0560
	75 1,2,4-Trichlorobenzene	180	23.062	23.061	(1.193)	1279488	75.0000	73.7510
	76 Hexachlorobutadiene	225	23.357	23.357	(1.208)	527219	75.0000	76.0315

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Report Date: 15-Sep-2004 09:37

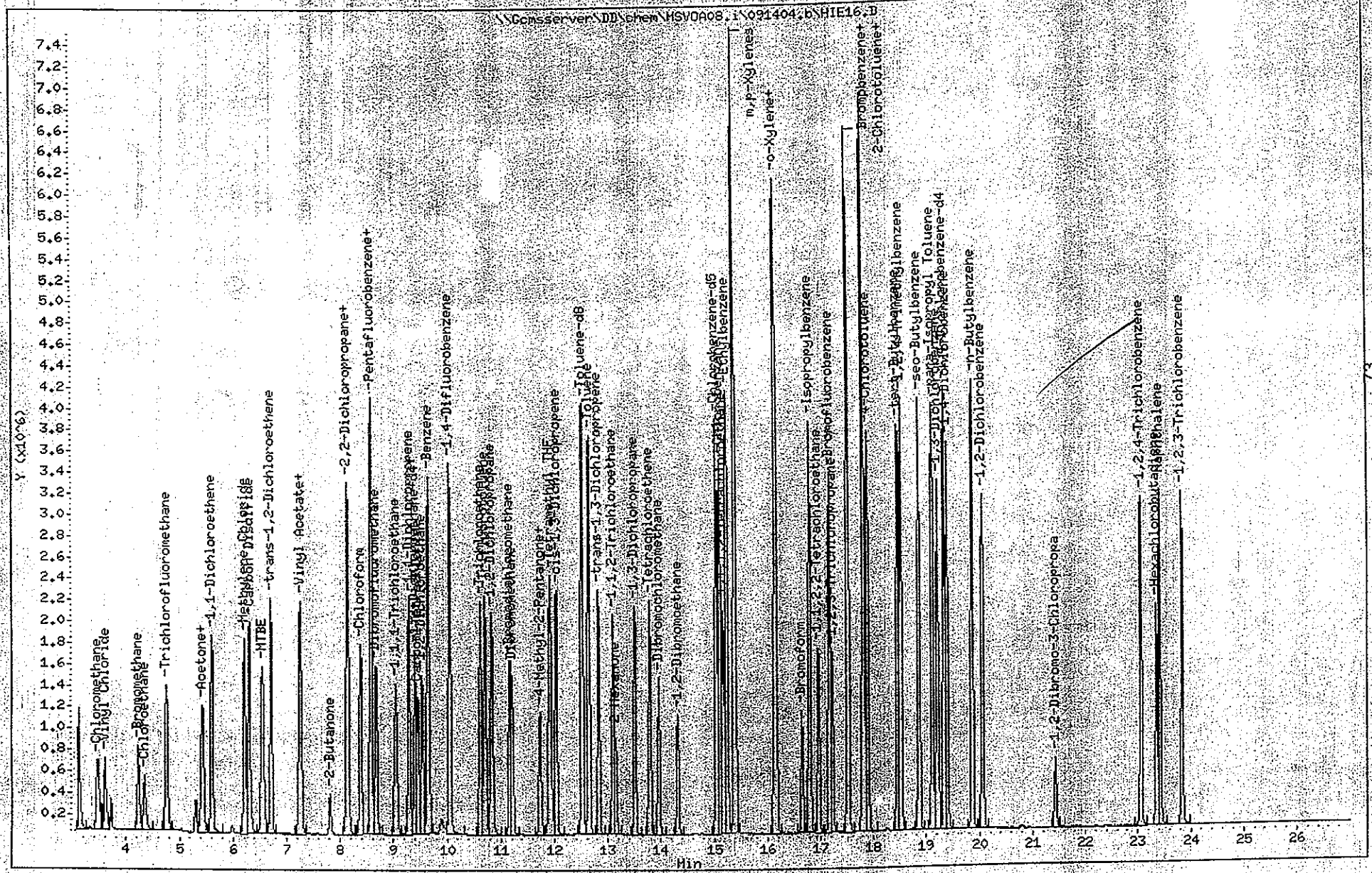
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.427	23.426	(1.212)	3336138	75.0000	77.5792
78 1,2,3-Trichlorobenzene	180	23.841	23.840	(1.233)	1280863	75.0000	74.3279

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE16.D
Date : 14-SEP-2004 20:12
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.015/100,04WS1422E,0.03/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 14-SEP-2004 20:48 MS Autotune Date: 14 SEP-2004 13:26
Operator : LW Inst ID: MSVOA08.i
Smp Info : ICAL,04SS331,0.02/100,04WS1422E,0.04/100,
Misc Info : 04WS1715A,0.01/100,100 PPB,NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\I8M826W.m
Meth Date : 15-Sep-2004 09:34 target Quant Type: ISTD
Cal Date : 14-SEP-2004 20:48 Cal File: HIE17.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.115	3.115	(0.363)	2114691	100.000	99.4254
2 Chloromethane	50	3.460	3.460	(0.403)	2018208	100.000	96.9229
3 Vinyl Chloride	62	3.598	3.598	(0.420)	1952181	100.000	94.6060
4 Bromomethane	94	4.219	4.219	(0.492)	1081718	100.000	125.6749
5 Chloroethane	64	4.338	4.339	(0.506)	955226	100.000	98.3743
6 Trichlorofluoromethane	101	4.762	4.762	(0.555)	7448285	100.000	101.2297
7 Acetone	43	5.304	5.304	(0.618)	696633	100.000	82.7780
8 Freon 113	101	5.422	5.422	(0.632)	1843224	100.000	99.3384
9 1,1-Dichloroethene	96	5.608	5.600	(0.653)	1429128	100.000	99.0611
10 Methylene Chloride	84	6.211	6.211	(0.724)	1802859	100.000	96.5084
11 Carbon Disulfide	76	6.300	6.300	(0.734)	5564511	100.000	99.7519
12 MTBE	73	6.546	6.546	(0.763)	4014807	100.000	100.2717
13 trans-1,2-Dichloroethene	96	6.704	6.704	(0.782)	1611304	100.000	98.5186
14 Vinyl Acetate	43	7.236	7.236	(0.844)	4310445	100.000	94.3139
15 1,1-Dichloroethane	63	7.266	7.266	(0.847)	2870916	100.000	96.3832
16 2-Butanone	43	7.808	7.808	(0.910)	885769	100.000	88.2250
17 2,2-Dichloropropane	77	8.134	8.134	(0.948)	2066267	100.000	97.6220
18 cis-1,2-Dichloroethene	96	8.134	8.134	(0.948)	1655866	100.000	98.4581
19 Chloroform	83	8.380	8.380	(0.977)	2829980	100.000	99.0806
* 20 Pentafluorobenzene	168	8.577	8.577	(1.000)	2428741	50.0000	
21 Bromochloromethane	128	8.577	8.577	(1.000)	821609	100.000	100.7962
$ 22 Dibromofluoromethane	113	8.676	8.676	(1.011)	1489781	50.0000	50.4182

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.041	9.041	(1.054)	2121573	100.000	102.2299
	24 1,1-Dichloropropene	75	9.287	9.287	(0.924)	2205880	100.000	98.8491
$	25 1,2-Dichloroethane-d4	65	9.396	9.396	(0.935)	1719220	50.0000	50.6421
	26 Carbon Tetrachloride	117	9.465	9.465	(0.942)	1789444	100.000	102.6236
	27 1,2-Dichloroethane	62	9.534	9.534	(0.949)	2239491	100.000	99.6555
	28 Benzene	78	9.642	9.642	(0.960)	6087936	100.000	95.8080
*	29 1,4-Difluorobenzene	114	10.046	10.046	(1.000)	4255238	50.0000	
	30 Trichloroethene	95	10.618	10.618	(1.057)	1543779	100.000	97.9621
$	31 Trifluorotoluene	146	10.707	10.707	(1.066)	2196068	100.000	101.7168(A)
	32 1,2-Dichloropropane	63	10.835	10.835	(1.079)	1626999	100.000	97.7245
	33 Bromodichloromethane	83	11.160	11.160	(1.111)	2187263	100.000	98.5704
	34 Dibromomethane	93	11.210	11.210	(1.116)	1247510	100.000	98.5970
	35 2-Chloroethylvinylether	63	11.732	11.732	(1.168)	2408	100.000	90.5647
	36 4-Methyl-2-Pentanone	43	11.732	11.732	(1.168)	1940712	100.000	95.0181
	37 Dekamethyl THF	43	11.920	11.920	(1.186)	3889552	100.000	92.8944(A)
	38 cis-1,3-Dichloropropene	75	12.038	12.038	(1.198)	2630409	100.000	97.8473
$	39 Toluene-d8	98	12.521	12.521	(1.246)	4202158	50.0000	49.9351
	40 Toluene	92	12.649	12.649	(1.259)	3488995	100.000	97.3972
	41 trans-1,3-Dichloropropene	75	12.827	12.827	(1.277)	2377788	100.000	99.5497
	42 1,1,2-Trichloroethane	85	13.093	13.093	(1.303)	879163	100.000	99.6951
	43 2-Hexanone	43	13.152	13.152	(0.874)	1343624	100.000	93.7038
	44 1,3-Dichloropropane	76	13.507	13.507	(0.898)	2420637	100.000	95.5896
	45 Tetrachloroethene	166	13.793	13.793	(0.917)	1321845	100.000	99.4350
	46 Dibromochloromethane	129	13.961	13.961	(0.928)	1627485	100.000	100.1888
	47 1,2-Dibromoethane	107	14.315	14.315	(1.425)	1606669	100.000	98.5295
*	48 Chlorobenzene-d5	117	15.045	15.045	(1.000)	3539344	50.0000	
	49 Chlorobenzene	112	15.104	15.104	(1.004)	3884902	100.000	96.7470
	50 1,1,1,2-Tetrachloroethane	131	15.173	15.173	(1.009)	1344848	100.000	100.6686
	51 Ethylbenzene	91	15.232	15.232	(1.012)	6827727	100.000	98.0453
	52 m,p-Xylenes	106	15.390	15.390	(1.023)	4698520	200.000	189.1315
	53 o-Xylene	105	16.139	16.139	(1.073)	2316609	100.000	94.0896
	54 Styrene	104	16.159	16.159	(1.074)	4072525	100.000	94.8848
	55 Bromoform	173	16.652	16.652	(1.107)	374080	100.000	95.9152
	56 Isopropylbenzene	105	16.790	16.790	(0.868)	6161294	100.000	97.9474
	57 1,1,2,2-Tetrachloroethane	83	16.958	16.958	(0.877)	2167475	100.000	97.6759
$	58 Bromofluorobenzene	95	17.165	17.165	(0.888)	1939412	50.0000	49.4155
	59 1,2,3-Trichloropropane	110	17.224	17.224	(0.891)	526712	100.000	100.6021
	60 Bromobenzene	156	17.510	17.510	(0.906)	1517411	100.000	97.0249
	61 Propylbenzene	91	17.520	17.520	(0.906)	7827467	100.000	96.0139
	62 2-Chlorotoluene	91	17.796	17.796	(0.920)	5132264	100.000	94.9712
	63 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.921)	5013892	100.000	97.0010
	64 4-Chlorotoluene	91	17.885	17.885	(0.925)	4898256	100.000	97.1910
	65 tert-Butylbenzene	119	18.456	18.456	(0.955)	4574224	100.000	98.8136
	66 1,2,4-Trimethylbenzene	105	18.525	18.525	(0.958)	5143406	100.000	96.7745
	67 sec-Butylbenzene	105	18.861	18.861	(0.976)	6991071	100.000	97.1283
	68 para-Isopropyl Toluene	119	19.117	19.117	(0.989)	5489584	100.000	98.7417
	69 1,3-Dichlorobenzene	146	19.216	19.216	(0.994)	2920820	100.000	97.7441
*	70 1,4-Dichlorobenzene-d4	152	19.334	19.334	(1.000)	1689571	50.0000	
	71 1,4-Dichlorobenzene	146	19.393	19.393	(1.003)	2964661	100.000	97.0936
	72 n-Butylbenzene	91	19.866	19.866	(1.028)	5497890	100.000	98.2247
	73 1,2-Dichlorobenzene	146	20.064	20.064	(1.038)	2807709	100.000	97.9029
	74 1,2-Dibromo-3-Chloropropane	75	21.434	21.434	(1.109)	359880	100.000	95.6769
	75 1,2,4-Trichlorobenzene	180	23.061	23.061	(1.193)	1817244	100.000	100.2154
	76 Hexachlorobutadiene	225	23.357	23.357	(1.208)	752001	100.000	103.7553

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Report Date: 15-Sep-2004 09:37

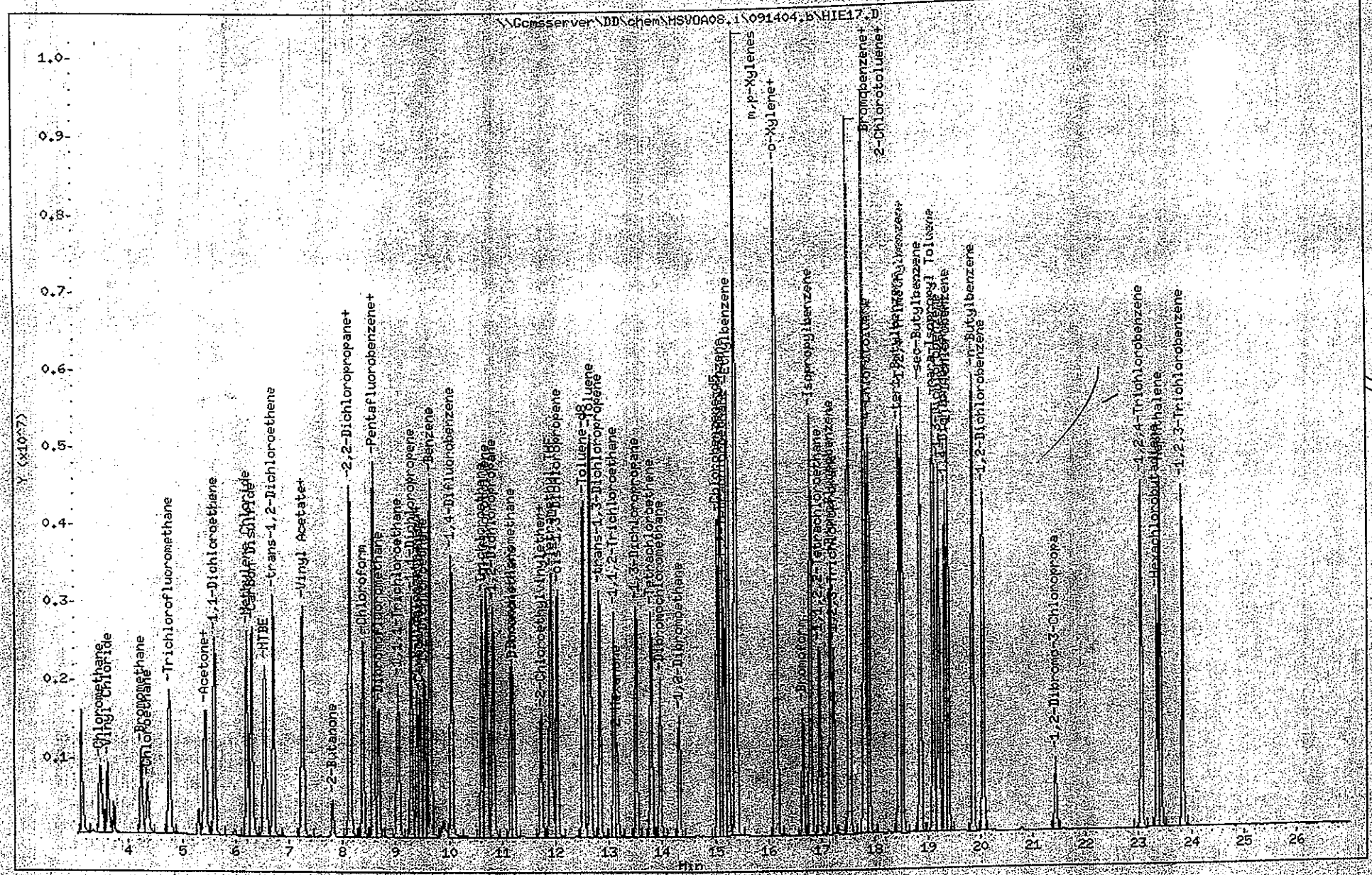
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 Naphthalene	128	23.426	23.426	(1.212)	4874113	100.000	108.4393
78 1,2,3-Trichlorobenzene	180	23.840	23.840	(1.233)	1793929	100.000	99.5965

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\091404.b\HIE17.D
Date : 14-SEP-2004 20:48
Client ID: DYNA P&T
Sample Info: ICAL,04SS331,0.02/100,04WS1422E,0.04/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA08.i
Operator: LW
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08
Seqnum : 474372175019
Calnum : 474372175001
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Run Name :
Filename : hie19
Caldate : 14-SEP-2004

Injected : 14-SEP-2004 22:01
Caltype : WATER

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	60.25130	ug/L	21	40	
Freon 113	50.00000	52.16000	ug/L	4	30	
1,1-Dichloroethene	50.00000	45.62080	ug/L	-9	20	
Methylene Chloride	50.00000	48.00290	ug/L	-4	30	
Carbon Disulfide	50.00000	42.50020	ug/L	-15	30	
MTBE	50.00000	54.70120	ug/L	9	30	
trans-1,2-Dichloroethene	50.00000	47.35270	ug/L	-5	30	
Vinyl Acetate	50.00000	41.53400	ug/L	-17	40	
1,1-Dichloroethane	50.00000	49.14810	ug/L	-2	30	
2-Butanone	50.00000	51.21330	ug/L	2	40	
2,2-Dichloropropane	50.00000	45.84170	ug/L	-8	30	
cis-1,2-Dichloroethene	50.00000	50.17280	ug/L	0	30	
Chloroform	50.00000	48.81910	ug/L	-2	20	
Bromochloromethane	50.00000	50.09810	ug/L	0	30	
1,1,1-Trichloroethane	50.00000	50.71680	ug/L	1	30	
1,1-Dichloropropene	50.00000	46.59160	ug/L	-7	30	
Carbon Tetrachloride	50.00000	50.00650	ug/L	0	30	
1,2-Dichloroethane	50.00000	49.23660	ug/L	-2	30	
Benzene	50.00000	48.14280	ug/L	-4	30	
Trichloroethene	50.00000	49.05030	ug/L	-2	30	
1,2-Dichloropropane	50.00000	48.72520	ug/L	-3	20	
Bromodichloromethane	50.00000	50.93940	ug/L	2	30	
Dibromomethane	50.00000	49.29190	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	53.36300	ug/L	7	40	m
4-Methyl-2-Pentanone	50.00000	47.61960	ug/L	-5	40	
Tetramethyl THF	50.00000	46.25830	ug/L	-7	30	
cis-1,3-Dichloropropene	50.00000	49.05400	ug/L	-2	30	
Toluene	50.00000	49.17120	ug/L	-2	20	
trans-1,3-Dichloropropene	50.00000	46.64990	ug/L	-7	30	
1,1,2-Trichloroethane	50.00000	50.46680	ug/L	1	30	
2-Hexanone	50.00000	50.88010	ug/L	2	40	
1,3-Dichloropropane	50.00000	50.01910	ug/L	0	30	
Tetrachloroethene	50.00000	49.41550	ug/L	-1	30	
Dibromochloromethane	50.00000	51.08630	ug/L	2	30	
1,2-Dibromoethane	50.00000	50.20010	ug/L	0	30	
Chlorobenzene	50.00000	48.66860	ug/L	-3	30	
1,1,1,2-Tetrachloroethane	50.00000	51.13880	ug/L	2	30	
Ethylbenzene	50.00000	50.20740	ug/L	0	20	
m,p-Xylenes	100.0000	98.19230	ug/L	-2	30	
o-Xylene	50.00000	48.63240	ug/L	-3	30	
Styrene	50.00000	50.03350	ug/L	0	30	
Bromoform	50.00000	49.23880	ug/L	-2	30	
Isopropylbenzene	50.00000	45.05810	ug/L	-10	30	
1,1,2,2-Tetrachloroethane	50.00000	50.61820	ug/L	1	30	
1,2,3-Trichloropropane	50.00000	52.73700	ug/L	5	30	
Propylbenzene	50.00000	49.02090	ug/L	-2	30	
Bromobenzene	50.00000	50.86910	ug/L	2	30	

m=manual integration
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08
Seqnum : 474372175019
Calnum : 474372175001
Standards: 04WS1554 (5000X), 04WS1453C (5000X)

Run Name :
Filename : hie19
Caldate : 14-SEP-2004

Injected : 14-SEP-2004 22:01
Caltype : WATER

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	49.75170	ug/L	0	30	
2-Chlorotoluene	50.00000	49.20140	ug/L	-2	30	
4-Chlorotoluene	50.00000	48.50520	ug/L	-3	30	
tert-Butylbenzene	50.00000	50.02040	ug/L	0	30	
1,2,4-Trimethylbenzene	50.00000	50.44110	ug/L	1	30	
sec-Butylbenzene	50.00000	48.61160	ug/L	-3	30	
para-Isopropyl Toluene	50.00000	47.97740	ug/L	-4	30	
1,3-Dichlorobenzene	50.00000	48.47920	ug/L	-3	30	
1,4-Dichlorobenzene	50.00000	49.74920	ug/L	-1	30	
n-Butylbenzene	50.00000	50.67410	ug/L	1	30	
1,2-Dichlorobenzene	50.00000	50.30820	ug/L	1	30	
1,2-Dibromo-3-Chloropropane	50.00000	51.82510	ug/L	4	30	
1,2,4-Trichlorobenzene	50.00000	51.15440	ug/L	2	30	
Hexachlorobutadiene	50.00000	51.71210	ug/L	3	30	
Naphthalene	50.00000	59.42570	ug/L	19	30	
1,2,3-Trichlorobenzene	50.00000	52.06140	ug/L	4	30	
Dibromofluoromethane	50.00000	49.85050	ug/L	0	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	49.56910	ug/L	-1	30	(NOT USED)
Toluene-d8	50.00000	48.85450	ug/L	-2	30	(NOT USED)
Bromofluorobenzene	50.00000	49.60330	ug/L	-1	30	(NOT USED)

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2465873	5.14	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4309516	6.62	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3490304	6.09	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1667147	7.66	19.34	19.34	0.00

LW 9-15-04

AR 09/15/04

m=manual integration
Page 2 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA08
Seqnum : 474372175018
Calnum : 474372175001
Standards: 04WS1541 (5000X), 04WS1453C (5000X)

Run Name :
Filename : hie18
Caldate : 14-SEP-2004

Injected : 14-SEP-2004 21:24
Caltype : WATER

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	36.81200	ug/L	-26	30	!v-
Chloromethane	50.00000	37.78070	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	40.70280	ug/L	-19	20	
Bromomethane	50.00000	53.40110	ug/L	7	30	
Chloroethane	50.00000	44.96540	ug/L	-10	30	
Trichlorofluoromethane	50.00000	48.26010	ug/L	-3	30	
Dibromofluoromethane	50.00000	48.91830	ug/L	-2	30	
1,2-Dichloroethane-d4	50.00000	48.85870	ug/L	-2	30	
Toluene-d8	50.00000	52.32620	ug/L	5	30	
Bromofluorobenzene	50.00000	49.76170	ug/L	0	30	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2538256	8.23	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4346886	7.55	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3487400	6.00	15.04	15.04	0.00
1,4-Dichlorobenzene-d4	1548545	1640381	5.93	19.34	19.34	0.00

LW 9-15-04

09/15/04

!=warning -=low bias v=ICV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474452682003 Filename : hk903 Injected : 09-NOV-2004 09:49
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04SS393 (12500X), 04WS1756 (6667X), 04WS1967 (25000X), 04WS1749 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4379	0.5217	40.00000	47.65790	ug/L	19	30	0.0500	
Chloromethane	0.4287	0.4797	40.00000	44.76220	ug/L	12	30	0.1000	
Vinyl Chloride	0.2942	0.3281	40.00000	44.60620	ug/L	12	20	0.0500	
Bromomethane	0.1772	0.1882	40.00000	42.47500	ug/L	6	30	0.0500	
Chloroethane	0.1894	0.2148	40.00000	45.35980	ug/L	13	30	0.0500	
Trichlorofluoromethane	0.5101	0.5987	40.00000	46.94530	ug/L	17	30	0.0500	
Acetone	0.1624	0.1373	37.50000	33.86190	ug/L	-10	40	0.0500	
Freon 113	0.2991	0.3321	37.50000	41.63270	ug/L	11	30	0.0500	
1,1-Dichloroethene	0.2966	0.3062	37.50000	38.71880	ug/L	3	20	0.0500	
Methylene Chloride	0.3846	0.4155	37.50000	40.51240	ug/L	8	30	0.0500	
Carbon Disulfide	1.1484	1.1996	37.50000	39.17300	ug/L	4	30	0.0500	
MTBE	0.8243	0.6241	37.50000	28.39460	ug/L	-24	30	0.0500	!c-
trans-1,2-Dichloroethene	0.3367	0.3617	37.50000	40.27940	ug/L	7	30	0.0500	
Vinyl Acetate	0.9409	0.8247	37.50000	32.87010	ug/L	-12	40	0.0500	
1,1-Dichloroethane	0.6132	0.6701	37.50000	40.98130	ug/L	9	30	0.1000	
2-Butanone	0.2067	0.1756	37.50000	31.85370	ug/L	-15	40	0.0500	
2,2-Dichloropropane	0.4357	0.4381	37.50000	37.70040	ug/L	1	30	0.0500	
cis-1,2-Dichloroethene	0.3462	0.3852	37.50000	41.71930	ug/L	11	30	0.0500	
Chloroform	0.5880	0.6344	37.50000	40.45950	ug/L	8	20	0.0500	
Bromochloromethane	0.1678	0.1885	37.50000	42.11590	ug/L	12	30	0.0500	
1,1,1-Trichloroethane	0.4272	0.4238	37.50000	37.19890	ug/L	-1	30	0.0500	
1,1-Dichloropropene	0.2622	0.2338	37.50000	33.43960	ug/L	-11	30	0.0500	
Carbon Tetrachloride	0.2049	0.1894	37.50000	34.66450	ug/L	-8	30	0.0500	
1,2-Dichloroethane	0.2641	0.2459	37.50000	34.92650	ug/L	-7	30	0.0500	
Benzene	0.7466	0.7210	37.50000	36.21280	ug/L	-3	30	0.0500	
Trichloroethene	0.1852	0.1690	37.50000	34.22930	ug/L	-9	30	0.0500	
1,2-Dichloropropane	0.1956	0.1873	37.50000	35.90150	ug/L	-4	20	0.0500	
Bromodichloromethane	0.2607	0.2373	37.50000	34.13380	ug/L	-9	30	0.0500	
Dibromomethane	0.1487	0.1442	37.50000	36.37500	ug/L	-3	30	0.0500	
2-Chloroethylvinylether	3.1E-4	1.4E-4	40.00000	17.70420	ug/L	-56	40	0.0500	c- crf
4-Methyl-2-Pentanone	0.2400	0.1825	37.50000	28.51390	ug/L	-24	40	0.0500	
Tetramethyl THF	0.4895	0.4213	37.50000	32.27870	ug/L	-14	30	0.0500	
cis-1,3-Dichloropropene	0.3159	0.2904	37.50000	34.47070	ug/L	-8	30	0.0500	
Toluene	0.4210	0.4188	37.50000	37.30570	ug/L	-1	20	0.0500	
trans-1,3-Dichloropropene	0.2807	0.2555	37.50000	34.14100	ug/L	-9	30	0.0500	
1,1,2-Trichloroethane	0.1036	0.0986	37.50000	35.68090	ug/L	-5	30	0.0500	
2-Hexanone	0.2026	0.1593	37.50000	29.48330	ug/L	-21	40	0.0500	
1,3-Dichloropropane	0.3577	0.3470	37.50000	36.37460	ug/L	-3	30	0.0500	
Tetrachloroethene	0.1878	0.1711	37.50000	34.15670	ug/L	-9	30	0.0500	
Dibromochloromethane	0.2295	0.2064	37.50000	33.72360	ug/L	-10	30	0.0500	
1,2-Dibromoethane	0.1916	0.1828	37.50000	35.77550	ug/L	-5	30	0.0500	
Chlorobenzene	0.5673	0.5530	37.50000	36.55630	ug/L	-3	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1887	0.1776	37.50000	35.29630	ug/L	-6	30	0.0500	
Ethylbenzene	0.9838	0.9534	37.50000	36.34280	ug/L	-3	20	0.0500	
m,p-Xylenes	0.3509	0.3518	75.00000	75.18870	ug/L	0	30	0.0500	
o-Xylene	0.3475	0.3398	37.50000	36.66780	ug/L	-2	30	0.0500	

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474452682003 Filename : hk903 Injected : 09-NOV-2004 09:49
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04SS393 (12500X), 04WS1756 (6667X), 04WS1967 (25000X), 04WS1749 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.6004	0.5809	37.50000	36.28270	ug/L	-3	30	0.0500	
Bromoform	0.1693	0.1312	37.50000	29.04550	ug/L	**-23**	30	0.1000	!c-
Isopropylbenzene	1.8676	1.7884	37.50000	35.91010	ug/L	-4	30	0.0500	
1,1,2,2-Tetrachloroethane	0.6555	0.6764	37.50000	38.69370	ug/L	3	30	0.3000	
1,2,3-Trichloropropane	0.1712	0.1533	37.50000	36.68090	ug/L	-2	30	0.0500	
Propylbenzene	2.4126	2.3893	37.50000	37.13890	ug/L	-1	30	0.0500	
Bromobenzene	0.4628	0.4465	37.50000	36.18110	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	1.5358	1.4825	37.50000	36.19930	ug/L	-3	30	0.0500	
2-Chlorotoluene	1.5989	1.5232	37.50000	35.72360	ug/L	-5	30	0.0500	
4-Chlorotoluene	1.4914	1.4751	37.50000	37.08990	ug/L	-1	30	0.0500	
tert-Butylbenzene	1.3699	1.2465	37.50000	34.12270	ug/L	-9	30	0.0500	
1,2,4-Trimethylbenzene	1.5728	1.5260	37.50000	36.38410	ug/L	-3	30	0.0500	
sec-Butylbenzene	2.1301	2.0347	37.50000	35.82180	ug/L	-4	30	0.0500	
para-Isopropyl Toluene	1.6453	1.5672	37.50000	35.72100	ug/L	-5	30	0.0500	
1,3-Dichlorobenzene	0.8843	0.8464	37.50000	35.89330	ug/L	-4	30	0.0500	
1,4-Dichlorobenzene	0.9036	0.8721	37.50000	36.19310	ug/L	-3	30	0.0500	
n-Butylbenzene	1.6564	1.6165	37.50000	36.59530	ug/L	-2	30	0.0500	
1,2-Dichlorobenzene	0.8487	0.8122	37.50000	35.88970	ug/L	-4	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1113	0.0923	37.50000	31.09970	ug/L	-17	30	0.0500	
1,2,4-Trichlorobenzene	0.5366	0.4533	37.50000	31.67950	ug/L	-16	30	0.0500	
Hexachlorobutadiene	0.2145	0.1697	37.50000	29.67510	ug/L	**-21**	30	0.0500	!c-
Naphthalene	1.3302	1.2720	37.50000	35.85970	ug/L	-4	30	0.0500	
1,2,3-Trichlorobenzene	0.5330	0.4513	37.50000	31.75080	ug/L	-15	30	0.0500	
Dibromofluoromethane	0.6083	0.6563	50.00000	53.94650	ug/L	8	30	0.0500	
1,2-Dichloroethane-d4	0.3989	0.3739	50.00000	46.86010	ug/L	-6	30	0.0500	
Trifluorotoluene	0.2537	0.2334	37.50000	34.50300	ug/L	-8	30	0.0500	
Toluene-d8	0.9888	0.9988	50.00000	50.50550	ug/L	1	30	0.0500	
Bromofluorobenzene	1.1614	1.1233	50.00000	48.35880	ug/L	-3	30	0.0500	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2195376	-6.39	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4275599	5.79	10.05	10.04	-0.01
Chlorobenzene-d5	3289931	3517823	6.93	15.04	15.03	-0.01
1,4-Dichlorobenzene-d4	1548545	1667334	7.67	19.34	19.33	-0.01

LW 11-10-04

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474452682013 Filename : hk913 Injected : 09-NOV-2004 16:14
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04SS393 (12500X), 04WS1756 (6667X), 04WS1967 (25000X), 04WS1749 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4379	0.5168	40.00000	47.21500	ug/L	18	30	0.0500	
Chloromethane	0.4287	0.4734	40.00000	44.17220	ug/L	10	30	0.1000	
Vinyl Chloride	0.2942	0.3156	40.00000	42.90540	ug/L	7	20	0.0500	
Bromomethane	0.1772	0.1819	40.00000	41.07220	ug/L	3	30	0.0500	
Chloroethane	0.1894	0.2140	40.00000	45.18340	ug/L	13	30	0.0500	
Trichlorofluoromethane	0.5101	0.5982	40.00000	46.90940	ug/L	17	30	0.0500	
Acetone	0.1624	0.1273	37.50000	31.37730	ug/L	-16	40	0.0500	
Freon 113	0.2991	0.3321	37.50000	41.63990	ug/L	11	30	0.0500	
1,1-Dichloroethene	0.2966	0.3062	37.50000	38.71440	ug/L	3	20	0.0500	
Methylene Chloride	0.3846	0.4139	37.50000	40.36330	ug/L	8	30	0.0500	
Carbon Disulfide	1.1484	1.2053	37.50000	39.35830	ug/L	5	30	0.0500	
MTBE	0.8243	0.6266	37.50000	28.50470	ug/L	**-24**	30	0.0500	!c-
trans-1,2-Dichloroethene	0.3367	0.3593	37.50000	40.02010	ug/L	7	30	0.0500	
Vinyl Acetate	0.9409	0.8093	37.50000	32.25660	ug/L	-14	40	0.0500	
1,1-Dichloroethane	0.6132	0.6544	37.50000	40.01630	ug/L	7	30	0.1000	
2-Butanone	0.2067	0.1726	37.50000	31.32230	ug/L	-16	40	0.0500	
2,2-Dichloropropane	0.4357	0.3739	37.50000	32.17460	ug/L	-14	30	0.0500	
cis-1,2-Dichloroethene	0.3462	0.3799	37.50000	41.14600	ug/L	10	30	0.0500	
Chloroform	0.5880	0.6182	37.50000	39.42540	ug/L	5	20	0.0500	
Bromochloromethane	0.1678	0.1873	37.50000	41.85700	ug/L	12	30	0.0500	
1,1,1-Trichloroethane	0.4272	0.4195	37.50000	36.82480	ug/L	-2	30	0.0500	
1,1-Dichloropropene	0.2622	0.2357	37.50000	33.70300	ug/L	-10	30	0.0500	
Carbon Tetrachloride	0.2049	0.1885	37.50000	34.50830	ug/L	-8	30	0.0500	
1,2-Dichloroethane	0.2641	0.2433	37.50000	34.54580	ug/L	-8	30	0.0500	
Benzene	0.7466	0.7129	37.50000	35.80690	ug/L	-5	30	0.0500	
Trichloroethene	0.1852	0.1730	37.50000	35.03070	ug/L	-7	30	0.0500	
1,2-Dichloropropane	0.1956	0.1839	37.50000	35.25240	ug/L	-6	20	0.0500	
Bromodichloromethane	0.2607	0.2338	37.50000	33.63270	ug/L	-10	30	0.0500	
Dibromomethane	0.1487	0.1432	37.50000	36.12900	ug/L	-4	30	0.0500	
2-Chloroethylvinylether	3.1E-4	**8.6E-5**	40.00000	11.03910	ug/L	-72	40	0.0500	c- crf
4-Methyl-2-Pentanone	0.2400	0.1857	37.50000	29.01340	ug/L	-23	40	0.0500	
Tetramethyl THF	0.4895	0.4179	37.50000	32.01730	ug/L	-15	30	0.0500	
cis-1,3-Dichloropropene	0.3159	0.2785	37.50000	33.06610	ug/L	-12	30	0.0500	
Toluene	0.4210	0.4150	37.50000	36.96120	ug/L	-1	20	0.0500	
trans-1,3-Dichloropropene	0.2807	0.2436	37.50000	32.54320	ug/L	-13	30	0.0500	
1,1,2-Trichloroethane	0.1036	0.1037	37.50000	37.53020	ug/L	0	30	0.0500	
2-Hexanone	0.2026	0.1578	37.50000	29.22130	ug/L	-22	40	0.0500	
1,3-Dichloropropane	0.3577	0.3464	37.50000	36.31130	ug/L	-3	30	0.0500	
Tetrachloroethene	0.1878	0.1790	37.50000	35.74420	ug/L	-5	30	0.0500	
Dibromochloromethane	0.2295	0.2011	37.50000	32.86010	ug/L	-12	30	0.0500	
1,2-Dibromoethane	0.1916	0.1842	37.50000	36.05140	ug/L	-4	30	0.0500	
Chlorobenzene	0.5673	0.5620	37.50000	37.15260	ug/L	-1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1887	0.1783	37.50000	35.43300	ug/L	-6	30	0.0500	
Ethylbenzene	0.9838	0.9469	37.50000	36.09390	ug/L	-4	20	0.0500	
m,p-Xylenes	0.3509	0.3563	75.00000	76.14240	ug/L	2	30	0.0500	
o-Xylene	0.3475	0.3418	37.50000	36.87800	ug/L	-2	30	0.0500	

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA08 Run Name : 37.5/40 PPB IDF : 1.0
Seqnum : 474452682013 Filename : hk913 Injected : 09-NOV-2004 16:14
Calnum : 474372175001 Caldate : 14-SEP-2004 Caltype : WATER
Standards: 04SS393 (12500X), 04WS1756 (6667X), 04WS1967 (25000X), 04WS1749 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.6004	0.5934	37.50000	37.06610	ug/L	-1	30	0.0500	
Bromoform	0.1693	0.1226	37.50000	27.14650	ug/L	**-28**	30	0.1000	!c-
Isopropylbenzene	1.8676	1.8183	37.50000	36.51060	ug/L	-3	30	0.0500	
1,1,2,2-Tetrachloroethane	0.6555	0.6695	37.50000	38.29850	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	0.1712	0.1535	37.50000	36.74760	ug/L	-2	30	0.0500	
Propylbenzene	2.4126	2.3847	37.50000	37.06620	ug/L	-1	30	0.0500	
Bromobenzene	0.4628	0.4528	37.50000	36.68970	ug/L	-2	30	0.0500	
1,3,5-Trimethylbenzene	1.5358	1.4999	37.50000	36.62370	ug/L	-2	30	0.0500	
2-Chlorotoluene	1.5989	1.5602	37.50000	36.59210	ug/L	-2	30	0.0500	
4-Chlorotoluene	1.4914	1.4294	37.50000	35.94060	ug/L	-4	30	0.0500	
tert-Butylbenzene	1.3699	1.2763	37.50000	34.93850	ug/L	-7	30	0.0500	
1,2,4-Trimethylbenzene	1.5728	1.5140	37.50000	36.09840	ug/L	-4	30	0.0500	
sec-Butylbenzene	2.1301	2.0661	37.50000	36.37380	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	1.6453	1.5604	37.50000	35.56700	ug/L	-5	30	0.0500	
1,3-Dichlorobenzene	0.8843	0.8448	37.50000	35.82450	ug/L	-4	30	0.0500	
1,4-Dichlorobenzene	0.9036	0.8778	37.50000	36.42800	ug/L	-3	30	0.0500	
n-Butylbenzene	1.6564	1.5903	37.50000	36.00320	ug/L	-4	30	0.0500	
1,2-Dichlorobenzene	0.8487	0.8323	37.50000	36.77400	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1113	0.0894	37.50000	30.12730	ug/L	-20	30	0.0500	
1,2,4-Trichlorobenzene	0.5366	0.4570	37.50000	31.93670	ug/L	-15	30	0.0500	
Hexachlorobutadiene	0.2145	0.1698	37.50000	29.68220	ug/L	**-21**	30	0.0500	!c-
Naphthalene	1.3302	1.2435	37.50000	35.05700	ug/L	-7	30	0.0500	
1,2,3-Trichlorobenzene	0.5330	0.4643	37.50000	32.66700	ug/L	-13	30	0.0500	
Dibromofluoromethane	0.6083	0.6528	50.00000	53.65430	ug/L	7	30	0.0500	
1,2-Dichloroethane-d4	0.3989	0.3687	50.00000	46.21720	ug/L	-8	30	0.0500	
Trifluorotoluene	0.2537	0.2323	37.50000	34.33240	ug/L	-8	30	0.0500	
Toluene-d8	0.9888	1.0034	50.00000	50.73650	ug/L	1	30	0.0500	
Bromofluorobenzene	1.1614	1.1415	50.00000	49.14160	ug/L	-2	30	0.0500	

ISTD (ICAL=hie15)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	2345303	2286431	-2.51	8.58	8.58	0.00
1,4-Difluorobenzene	4041778	4363588	7.96	10.05	10.05	0.00
Chlorobenzene-d5	3289931	3561130	8.24	15.04	15.03	-0.01
1,4-Dichlorobenzene-d4	1548545	1693387	9.35	19.34	19.33	-0.01

LW 11-10-04

!=warning -=low bias c=CCV crf=CCV min RF failure irf=ICAL minimum RF failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 09-NOV-2004
Sequence: 474452682 (hk9)
Instrument ID: MSVOA08

ICAL Filename: hie15
Date Analyzed: 14-SEP-2004
Time Analyzed: 19:35

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	2345303	8.58	4041778	10.05	3289931	15.04	1548545	19.34
LOWER LIMIT	1172652	8.08	2020889	9.55	1644966	14.54	774273	18.84
UPPER LIMIT	4690606	9.08	8083556	10.55	6579862	15.54	3097090	19.84

TYPE	SAMPLE	#								
CCV	37.5/40 PP	003	2195376	8.58	4275599	10.04	3517823	15.03	1667334	19.33
BS	QC271380	005	2355653	8.57	4421299	10.04	3523316	15.04	1639810	19.32
BSD	QC271381	007	2312867	8.57	4292747	10.04	3563803	15.03	1654764	19.33
BLANK	QC271382	009	2216316	8.58	4054615	10.04	3333247	15.03	1501804	19.33
SAMPLE	175772-010	010	2130773	8.57	4033174	10.04	3288982	15.04	1468173	19.33
SAMPLE	175772-011	011	2166940	8.57	4114581	10.05	3339514	15.03	1486036	19.33
CCV	37.5/40 PP	013	2286431	8.58	4363588	10.04	3561130	15.03	1693387	19.33
BLANK	QC271383	015	2290992	8.57	4233090	10.04	3437354	15.04	1563110	19.32
SAMPLE	175838-002	016	2162861	8.57	4097608	10.04	3334286	15.04	1492957	19.33
SAMPLE	175839-011	017	2222921	8.58	4128631	10.04	3453136	15.03	1523603	19.33
SAMPLE	175839-003	018	2253441	8.58	4264289	10.04	3497951	15.03	1552024	19.33
SAMPLE	175795-011	019	2308453	8.57	4255193	10.04	3424225	15.04	1576076	19.33
SAMPLE	175783-001	020	2234781	8.58	4295787	10.04	3460318	15.03	1557423	19.33
SAMPLE	175783-002	021	2290487	8.57	4281697	10.05	3498546	15.04	1553695	19.33
SAMPLE	175893-001	022	2235293	8.58	4212247	10.04	3452433	15.03	1563819	19.33
SAMPLE	175893-002	023	2191210	8.58	4216948	10.04	3476286	15.03	1565343	19.33
SAMPLE	175869-002	024	2216359	8.58	4268395	10.05	3496765	15.03	1563391	19.33
SAMPLE	175869-003	025	2205156	8.58	4286996	10.04	3470378	15.03	1578276	19.33
SAMPLE	175869-004	026	2243861	8.58	4301186	10.04	3508239	15.03	1556300	19.33
SAMPLE	175839-001	027	2250234	8.58	4333794	10.04	3652028	15.04	1634154	19.33
SAMPLE	175839-002	028	2332475	8.58	4463038	10.04	3730872	15.03	1693485	19.33
SAMPLE	175839-004	029	2441968	8.58	4559457	10.04	3899513	15.03	1849109	19.33
SAMPLE	175882-001	030	2847826	8.58	5195371	10.04	4163048	15.03	1971136	19.33
SAMPLE	175882-002	031	2957030	8.58	5265516	10.04	4267694	15.03	1993324	19.33

8260 ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 474372175 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 14-SEP-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	hie01	TUN	BFB			14-SEP-2004 10:55	1.0					1	
002	hie02	TUN	BFB			14-SEP-2004 11:14	1.0					1	
003	hie03	TUN	BFB			14-SEP-2004 11:29	1.0	1				1 t	
004	hie04	TUN	BFB			14-SEP-2004 13:39	1.0					1	
005	hie05	TUN	BFB			14-SEP-2004 13:53	1.0					1	
006	hie06	TUN	BFB			14-SEP-2004 14:06	1.0					1	
007	hie07	X	IB			14-SEP-2004 14:51	1.0					2	
008	hie08	TUN	BFB			14-SEP-2004 15:30	1.0					1	
009	hie09	X	IB			14-SEP-2004 15:58	1.0					2	
010	hie10	X	CALIB IB			14-SEP-2004 16:34	1.0					2	
011	hie11	ICAL	1.0/0.5 PPB			14-SEP-2004 17:11	1.0					3 4 5 2	
012	hie12	ICAL	5 PPB			14-SEP-2004 17:47	1.0					3 4 5 2	
013	hie13	ICAL	10 PPB			14-SEP-2004 18:23	1.0					3 4 5 2	
014	hie14	ICAL	20 PPB			14-SEP-2004 18:59	1.0					3 4 5 2	
015	hie15	ICAL	50 PPB			14-SEP-2004 19:35	1.0					3 4 5 2	
016	hie16	ICAL	75 PPB			14-SEP-2004 20:12	1.0					3 4 5 2	
017	hie17	ICAL	100 PPB			14-SEP-2004 20:48	1.0					3 4 5 2	
018	hie18	ICV				14-SEP-2004 21:24	1.0		5000			6 2	
019	hie19	ICV				14-SEP-2004 22:01	1.0		5000			7 2	
020	hie20	X	IB			14-SEP-2004 22:37	1.0					2	
021	hie21	X	IB			14-SEP-2004 23:14	1.0					2	
022	hie22	X	IB			14-SEP-2004 23:50	1.0					2	

timing mass spec

ICAL passed except 2-Clene Failed and did not meet min RF
ICV OK LUSACE Freon 12↓, Chloromethane↓

Stds used: 1=04WS1238 2=04WS1453C 3=04SS331 4=04WS1422E 5=04WS1715A 6=04WS1541 7=04WS1554
Flags used: t=tune failure

Analyst: LW Date: 9-15-04

09/15/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Z

Sequence: 474452682 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 09-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	hk901	X	IB			09-NOV-2004 08:42	1.0						1	
002	hk902	TUN	BFB			09-NOV-2004 09:21	1.0						2	
003	hk903	CCV	37.5/40 PPB			09-NOV-2004 09:49	1.0	1		5000			3 4 5 1	
004	hk904	X	QC271380	96268	Water	09-NOV-2004 10:36	1.0			5000			6 7 8 1	
005	hk905	BS	QC271380	96268	Water	09-NOV-2004 11:12	1.0	1	2	5000			6 7 8 1	
006	hk906	X	IB			09-NOV-2004 12:13	1.0						1	
007	hk907	BSD	QC271381	96268	Water	09-NOV-2004 12:49	1.0	1	2	5000			6 7 8 1	
008	hk908	X	IB			09-NOV-2004 13:26	1.0						1	
009	hk909	BLANK	QC271382	96268	Water	09-NOV-2004 14:02	1.0	1	1	5000			1	
010	hk910	SAMPLE	175772-010	96268	Water	09-NOV-2004 14:39	1.0	1		5000	E	<2	1 spk	
011	hk911	SAMPLE	175772-011	96268	Water	09-NOV-2004 15:15	1.0	1		5000	E	<2	1 spk	
012	hk912	TUN	BFB			09-NOV-2004 15:45	1.0						2	
013	hk913	CCV	37.5/40 PPB			09-NOV-2004 16:14	1.0	1		5000			3 4 5 1	
014	hk914	X	IB			09-NOV-2004 17:01	1.0						1	
015	hk915	BLANK	QC271383	96268	Water	09-NOV-2004 17:37	1.0	1	1	5000			1	
016	hk916	SAMPLE	175838-002	96268	Water	09-NOV-2004 18:13	1.0			5000	A	<2	1	
017	hk917	SAMPLE	175839-011	96268	Water	09-NOV-2004 18:50	1.0			5000	A		1	
018	hk918	SAMPLE	175839-003	96268	Water	09-NOV-2004 19:26	1.0			5000	C		1	
019	hk919	SAMPLE	175795-011	96268	Water	09-NOV-2004 20:03	1.0	1		5000	C		1 spk	
020	hk920	SAMPLE	175783-001	96268	Water	09-NOV-2004 20:39	1.0			5000	B		1	
021	hk921	SAMPLE	175783-002	96268	Water	09-NOV-2004 21:15	1.0			5000	B		1	
022	hk922	SAMPLE	175893-001	96268	Water	09-NOV-2004 21:52	1.0			5000	B		1	
023	hk923	SAMPLE	175893-002	96268	Water	09-NOV-2004 22:28	1.0			5000	B		1	
024	hk924	SAMPLE	175869-002	96268	Water	09-NOV-2004 23:05	1.0			5000	B		1	
025	hk925	SAMPLE	175869-003	96268	Water	09-NOV-2004 23:41	1.0			5000	B		1	
026	hk926	SAMPLE	175869-004	96268	Water	10-NOV-2004 00:18	1.0			5000	B		1	
027	hk927	SAMPLE	175839-001	96268	Water	10-NOV-2004 00:54	1.0			5000	C		1	
028	hk928	SAMPLE	175839-002	96268	Water	10-NOV-2004 01:31	1.0			5000	C		1	
029	hk929	SAMPLE	175839-004	96268	Water	10-NOV-2004 02:07	1.0			5000	D		1	
030	hk930	SAMPLE	175882-001	96268	Water	10-NOV-2004 02:44	1.0			5000	C		1	

ICAL-OK except no 2-clere ICV-OK CVSACE Freon 12↓, Chloromethane↓)

Stds used: 1=04WS1749 2=04WS1238 3=04SS393 4=04WS1756 5=04WS1967 6=04WS1939 7=04WS1940 8=04WS2093
Flags used: spk=5% spike rule

CCV HK903: No 2-clere CVSACE MTBE↓, Bromoform↓, Hexachlorobutadiene↓.
CCV HK913: No 2-clere CVSACE MTBE↓, Bromoform↓, Hexachlorobutadiene↓.
BS/BSD: 1,1-Dichloropropene↓ (BS), trans-1,3-Dichloropropene↓ (BSD) Bromoform↓ <5% for 175783, 175838, 175869 and 175893. NT for 175839 and 175882. 175772 is for Chloroform only and 175795 is for Vinyl Chloride only.

Analyst: LW Date: 11-10-04
Page 1 of 2

✓ 11/10/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 474452682 Instrument: MSVOA08 HP GCMS VOA 08 Begun: 09-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
031	hk931	SAMPLE	175882-002	96268	Water	10-NOV-2004 03:20	1.0	5000	C	2	1	
032	hk932	X	IB			10-NOV-2004 03:57	1.0				1	
033	hk933	X	IB			10-NOV-2004 04:33	1.0				1	
034	hk934	X	IB			10-NOV-2004 05:10	1.0				1	

88

Stds used: 1=04WS1749 2=04WS1238 3=04SS393 4=04WS1756 5=04WS1967 6=04WS1939 7=04WS1940 8=04WS2093
Flags used: spk=5% spike rule

Analyst: LW Date: 11-10-04

REPORTING SUMMARY FOR 175838 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
				C	L	C	R	L	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
				1	M		M	E	1	E	1	E	L	S	B	E		A	K	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	M	B	B	B	C	B	B	P
				2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	P	1	U	H
175838-002	MSVOA08	11/09/04 18:13	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271380	MSVOA08	11/09/04 11:12	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271381	MSVOA08	11/09/04 12:49	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271382	MSVOA08	11/09/04 14:02	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC271383	MSVOA08	11/09/04 17:37	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Curtis & Tompkins, Ltd.

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 11-9
PREPPED BY.

96268
96285

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
	175799-1		C	7			8	1x surr	Put off
	-2								
	-3							1x	
	-4		B	<2				1x	
	175783-1		B					surr	
	-2		E	<2				surr	
	175772-10							1x	Put off
	-11		A						
	175799-6		B						
	-7								
	-8							1x	Put off
	-9		B						
	175849-1		B						
	-2		A					1x	
	-3		B	<2			8	7 1x	
	175850-1		B					7 1x 10x	Put off
	-2		B					1x	
	175716-7		C	<2					
	175795-11					3	7	25x	
	175823-15		B					1x	
	-16								
	-17							TB	
	-18		A					1x	
	-19		B			3		1x	
	175851-1		B			4		1x	
	-2								
	175853-1								
	-2								
	-3							3.3x	
	-4			<2				1x	
	-5		L					1x	
	-6		B	<2					
	175869-2								
	-3							1x	
	-4		B					1x	
	175893-1		B					1x	
	-2		C					1x	
	175839-1		C					RB	
	-2		C					1x	
	-3		D					TB	
	-4		A					TB	alias 175836-10
	-11		A						
	175838-2		C						
	175882-1		C						
	-2								

7/21/08

PREPFORM.XLS

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	09/11/04 0.20	10/26/04 0.13	10/12/04 0.083	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	09/11/04 0.031	10/26/04 0.043	10/12/04 0.040	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	09/11/04 0.069	10/26/04 0.098	10/12/04 0.089	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	09/11/04 0.087	10/26/04 0.079	10/12/04 0.074	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	09/11/04 0.031	10/26/04 0.057	10/12/04 0.070	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	09/11/04 0.046	10/26/04 0.15	10/12/04 0.14	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	09/11/04 0.15	10/26/04 0.069	10/12/04 0.22	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	09/11/04 0.12	10/26/04 0.12	10/12/04 0.14	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	09/11/04 0.18	10/26/04 0.49	10/12/04 0.34	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	09/11/04 0.27	10/26/04 0.40	10/12/04 0.36	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	09/11/04 0.090	10/26/04 0.13	10/12/04 0.098	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L	09/15/04 1.0	10/26/04 0.63	10/12/04 0.31	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	09/11/04 0.091	10/26/04 0.099	10/12/04 0.088	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	09/11/04 0.11	10/26/04 0.27	10/12/04 0.19	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	09/11/04 0.074	10/26/04 0.18	10/12/04 0.049	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	09/11/04 0.078	10/26/04 0.037	10/12/04 0.042	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	09/11/04 0.089	10/26/04 0.21	10/12/04 0.18	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	09/11/04 0.069	10/26/04 0.061	10/12/04 0.067	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	09/11/04 0.057	10/26/04 0.059	10/12/04 0.12	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	09/11/04 0.39	10/26/04 0.41	10/12/04 0.27	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	09/11/04 0.13	10/26/04 0.17	10/12/04 0.068	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	09/11/04 0.085	10/26/04 0.12	10/12/04 0.10	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	09/11/04 0.11	10/26/04 0.044	10/12/04 0.046	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	09/11/04 0.18	10/26/04 0.082	10/12/04 0.13	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	09/11/04 0.099	10/26/04 0.041	10/12/04 0.050	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	09/11/04 0.089	10/26/04 0.24	10/12/04 0.098	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	09/11/04 0.10	10/26/04 0.086	10/12/04 0.091	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	09/11/04 0.12	10/26/04 0.097	10/12/04 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.079	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	09/11/04 0.086	10/26/04 0.068	10/12/04 0.055	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	09/11/04 0.076	10/26/04 0.078	10/12/04 0.066	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	09/11/04 0.16	10/26/04 0.071	10/12/04 0.18	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	09/11/04 0.055	10/26/04 0.094	10/12/04 0.083	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	09/11/04 0.074	10/26/04 0.079	10/12/04 0.070	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	09/11/04 0.051	10/26/04 0.12	10/12/04 0.12	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	09/11/04 0.16	10/26/04 0.24	10/12/04 0.089	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	09/11/04 0.070	10/26/04 0.075	10/12/04 0.068	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	09/11/04 0.13	10/26/04 0.14	10/12/04 0.13	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	09/11/04 0.059	10/26/04 0.13	10/12/04 0.082	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	09/11/04 0.11	10/26/04 0.090	10/12/04 0.086	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	10/26/04 0.15	10/12/04 0.10	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	09/11/04 0.13	10/26/04 0.12	10/12/04 0.084	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	09/11/04 0.055	10/26/04 0.069	10/12/04 0.069	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	09/11/04 0.093	10/26/04 0.20	10/12/04 0.20	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	09/11/04 0.087	10/26/04 0.081	10/12/04 0.096	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	09/11/04 0.092	10/26/04 0.057	10/12/04 0.062	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	09/11/04 0.080	10/26/04 0.073	10/12/04 0.098	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	09/11/04 0.11	10/26/04 0.078	10/12/04 0.060	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	09/11/04 0.036	10/26/04 0.089	10/12/04 0.076	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	09/11/04 0.15	10/26/04 0.25	10/12/04 0.11	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	09/11/04 0.091	10/26/04 0.092	10/12/04 0.062	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	09/11/04 0.14	10/26/04 0.11	10/12/04 0.11	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	09/11/04 0.088	10/26/04 0.11	10/12/04 0.077	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.099	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	09/11/04 0.12	10/26/04 0.059	10/12/04 0.063	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	09/11/04 0.10	10/26/04 0.036	10/12/04 0.050	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	09/11/04 0.13	10/26/04 0.13	10/12/04 0.096	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	09/11/04 0.061	10/26/04 0.11	10/12/04 0.063	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	09/11/04 0.066	10/26/04 0.069	10/12/04 0.085	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	09/11/04 0.036	10/26/04 0.076	10/12/04 0.068	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	09/11/04 0.12	10/26/04 0.066	10/12/04 0.093	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	09/11/04 0.14	10/26/04 0.15	10/12/04 0.12	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	09/11/04 0.066	10/26/04 0.075	10/12/04 0.078	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	09/11/04 0.37	10/26/04 0.21	10/12/04 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	09/11/04 0.11	10/26/04 0.15	10/12/04 0.21	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	09/11/04 0.21	10/26/04 0.15	10/12/04 0.20	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	09/11/04 0.16	10/26/04 0.047	10/12/04 0.083	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	09/11/04 0.072	10/26/04 0.073	10/12/04 0.11	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	09/11/04 0.71	10/26/04 1.4	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	09/11/04 0.030	10/26/04 0.062	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	09/11/04 0.069	10/26/04 0.046	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	09/11/04 0.090	10/26/04 0.096	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	09/11/04 2.8	10/26/04 7.3	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0
Ethanol	ug/L	09/11/04 33	10/26/04 78	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L	09/11/04 1.6	10/26/04 3.6	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	09/11/04 0.24	10/26/04 1.9	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	09/11/04 0.067	10/26/04 0.066	10/12/04 0.15	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L			10/12/04 1.1	06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX139[0.5]	Diln Fac:	0.9615
Lab ID:	175838-001	Batch#:	96233
Matrix:	Soil	Sampled:	11/05/04
Units:	ug/Kg	Received:	11/05/04
Basis:	dry	Analyzed:	11/08/04

Moisture: 4%

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX139[0.5]	Diln Fac:	0.9615
Lab ID:	175838-001	Batch#:	96233
Matrix:	Soil	Sampled:	11/05/04
Units:	ug/Kg	Received:	11/05/04
Basis:	dry	Analyzed:	11/08/04

Analyte	Result	RL
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	59-113
1,2-Dichloroethane-d4	109	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	103	59-113

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC271259	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96233
Units:	ug/Kg	Analyzed:	11/08/04

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC271259	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96233
Units:	ug/Kg	Analyzed:	11/08/04

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-113
1,2-Dichloroethane-d4	103	70-121
Toluene-d8	97	84-138
Bromofluorobenzene	104	59-113

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC271258	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96233
Units:	ug/Kg	Analyzed:	11/08/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	55.94	112	65-135
Benzene	50.00	52.01	104	65-135
Trichloroethene	50.00	54.44	109	65-135
Toluene	50.00	51.49	103	65-135
Chlorobenzene	50.00	50.35	101	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	103	59-113
1,2-Dichloroethane-d4	101	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	99	59-113

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	175838	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9434
MSS Lab ID:	175857-001	Batch#:	96233
Matrix:	Soil	Sampled:	11/06/04
Units:	ug/Kg	Received:	11/08/04
Basis:	as received	Analyzed:	11/08/04

Type: MS Lab ID: QC271323

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6700	47.17	45.36	96	65-135
Benzene	<0.4000	47.17	44.16	94	65-135
Trichloroethene	<1.100	47.17	45.01	95	65-135
Toluene	<0.5500	47.17	42.55	90	65-135
Chlorobenzene	<0.3700	47.17	40.63	86	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	105	59-113
1,2-Dichloroethane-d4	106	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	101	59-113

Type: MSD Lab ID: QC271324

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	47.17	41.92	89	65-135	8	35
Benzene	47.17	41.79	89	65-135	6	35
Trichloroethene	47.17	41.60	88	65-135	8	35
Toluene	47.17	39.50	84	65-135	7	35
Chlorobenzene	47.17	36.47	77	65-135	11	35

Surrogate	%REC	Limits
Dibromofluoromethane	100	59-113
1,2-Dichloroethane-d4	107	70-121
Toluene-d8	101	84-138
Bromofluorobenzene	99	59-113

RPD= Relative Percent Difference

MSVOA03 8260 5 FCAL TUNE

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\110204.b\CK209.D

Date : 02-NOV-2004 15:09

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

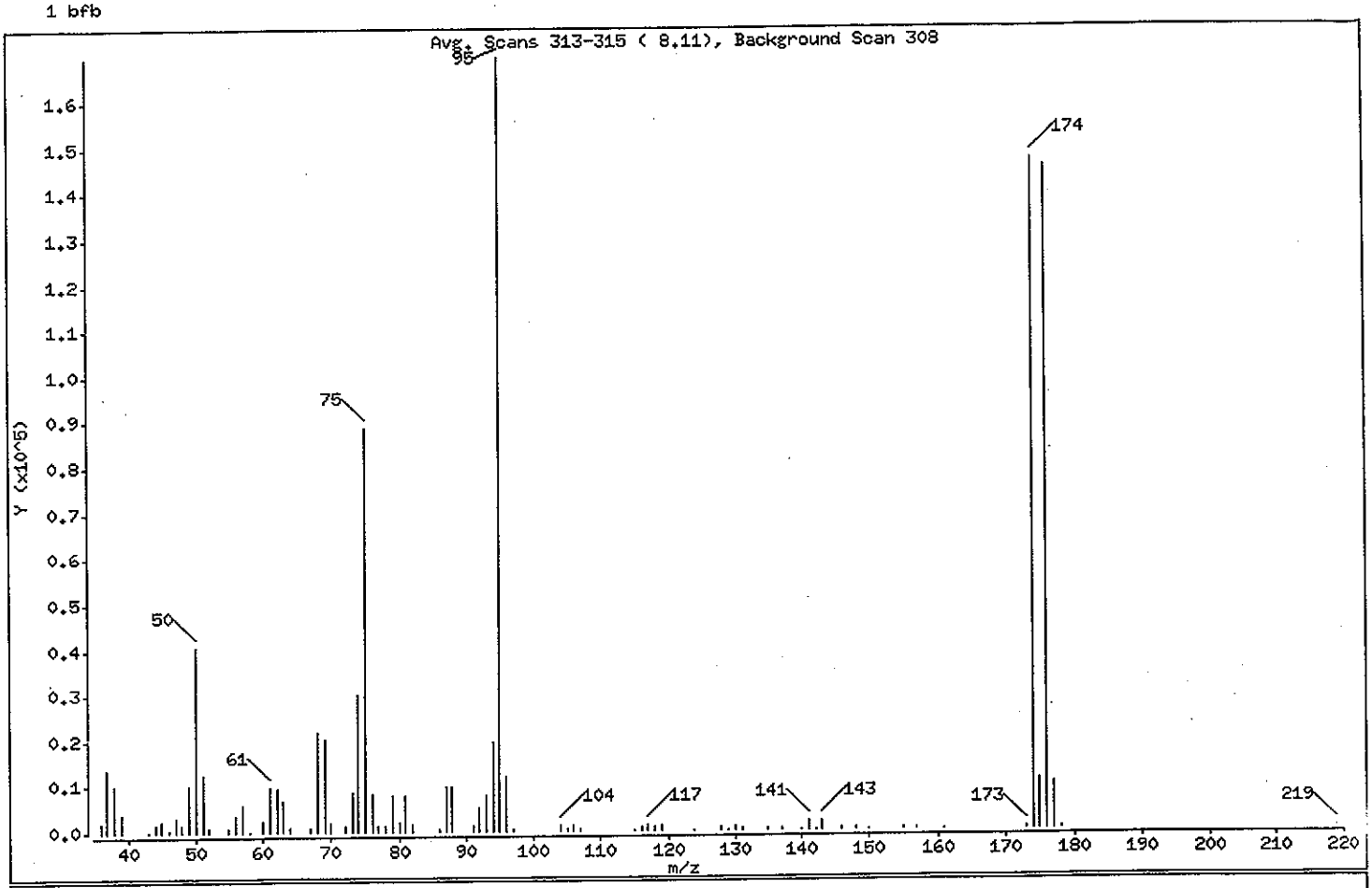
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.79
75	30.00 - 60.00% of mass 95	52.18
96	5.00 - 9.00% of mass 95	7.21
173	Less than 2.00% of mass 174	0.34 (0.39)
174	50.00 - 99.99% of mass 95	86.63
175	5.00 - 9.00% of mass 174	6.53 (7.54)
176	95.01 - 100.99% of mass 174	85.84 (99.08)
177	5.00 - 9.00% of mass 176	6.06 (7.06)

11/4/04

11/3/04

MSVOA 03 8260S ICV TUNE.

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\110304.b\CK305.D

Date : 03-NOV-2004 11:33

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

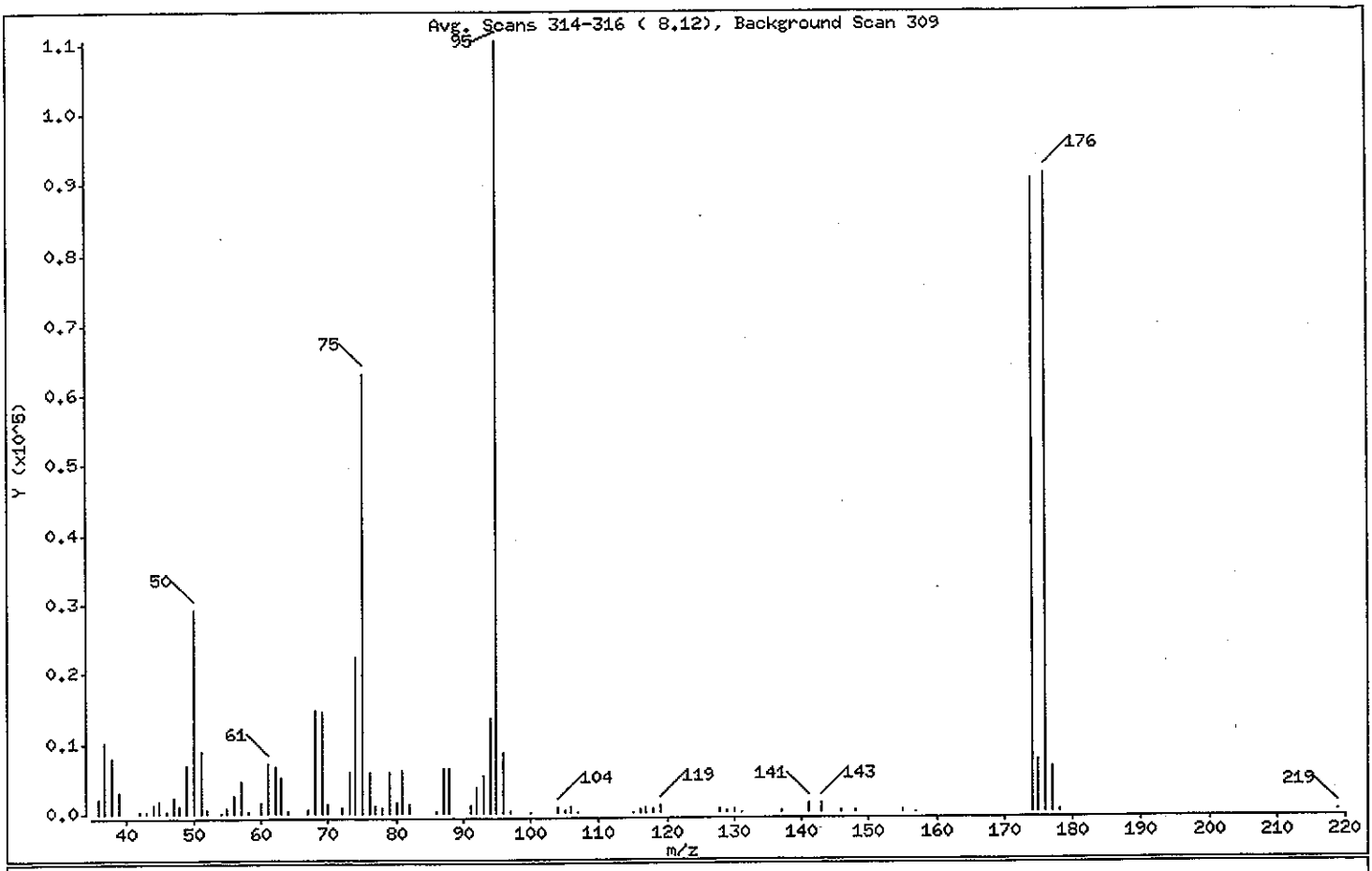
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.56
75	30.00 - 60.00% of mass 95	57.03
96	5.00 - 9.00% of mass 95	7.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	82.05
175	5.00 - 9.00% of mass 174	6.67 (8.13)
176	95.01 - 100.99% of mass 174	82.65 (100.73)
177	5.00 - 9.00% of mass 176	5.87 (7.10)

[illegible] 4/4/05.

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\110804.b\CK802.D

Date : 08-NOV-2004 10:56

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

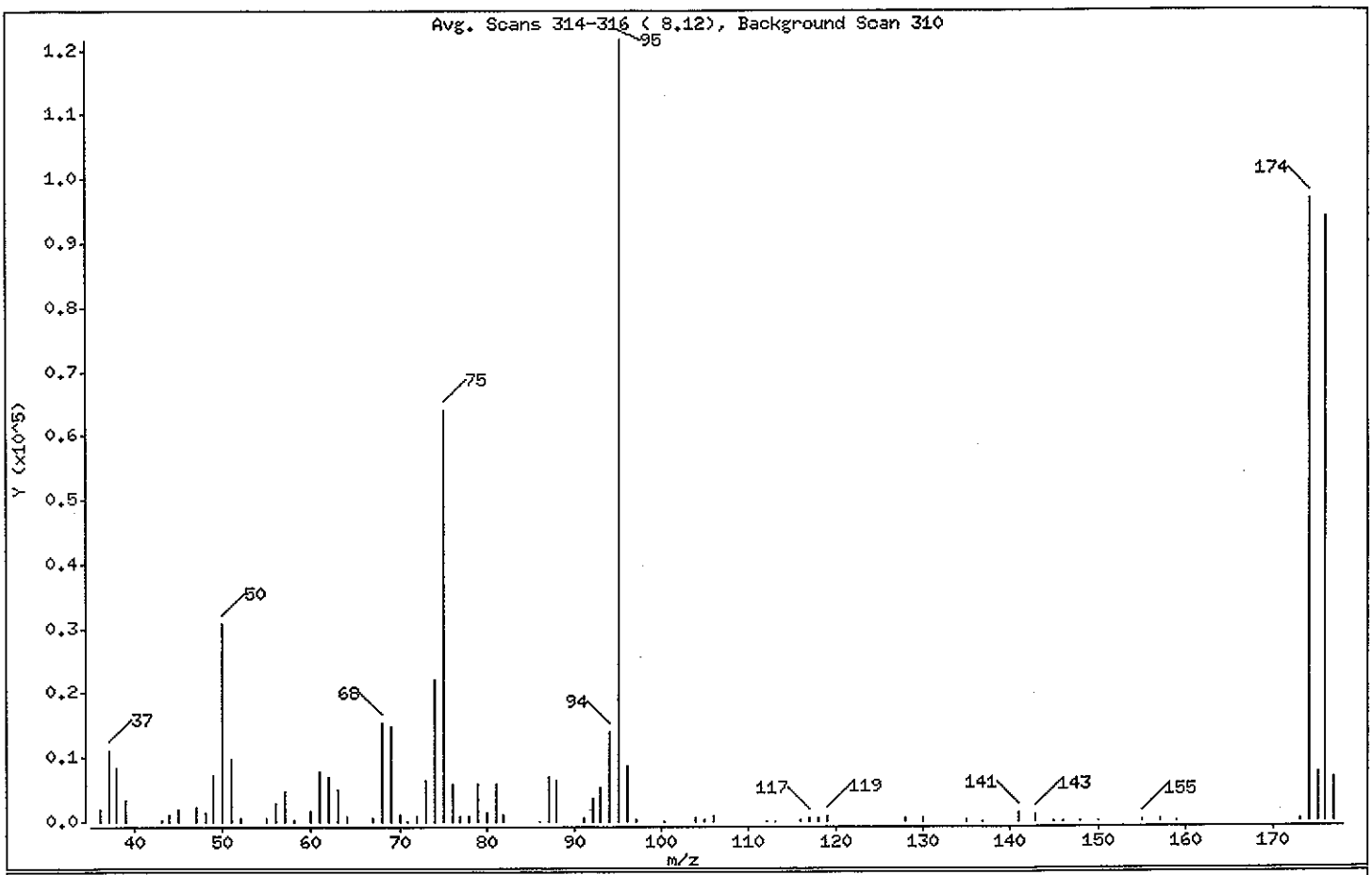
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.23
75	30.00 - 60.00% of mass 95	52.68
96	5.00 - 9.00% of mass 95	7.08
173	Less than 2.00% of mass 174	0.24 (0.30)
174	50.00 - 99.99% of mass 95	79.65
175	5.00 - 9.00% of mass 174	6.17 (7.74)
176	95.01 - 100.99% of mass 174	77.19 (96.91)
177	5.00 - 9.00% of mass 176	5.50 (7.12)

11/8/04

11/09/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424442674001 Name: I3M826 Type: SOIL Date: 02-NOV-2004 17:10 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	ck213	424442674013	5PPB	02-NOV-2004 17:10	04SS379 (100000X), 04WS1756 (50000X), 04WS1749 (5000X)
2	ck214	424442674014	10PPB	02-NOV-2004 17:44	04SS379 (50000X), 04WS1756 (25000X), 04WS1749 (5000X)
3	ck215	424442674015	20PPB	02-NOV-2004 18:18	04SS379 (25000X), 04WS1756 (12500X), 04WS1749 (5000X)
4	ck216	424442674016	50PPB	02-NOV-2004 18:52	04SS379 (10000X), 04WS1756 (5000X), 04WS1749 (5000X)
5	ck217	424442674017	60PPB	02-NOV-2004 19:26	04SS379 (8333X), 04WS1756 (4167X), 04WS1749 (5000X)
6	ck218	424442674018	75PPB	02-NOV-2004 20:00	04SS379 (6667X), 04WS1756 (3333X), 04WS1749 (5000X)
7	ck219	424442674019	100PPB	02-NOV-2004 20:34	04SS379 (5000X), 04WS1756 (2500X), 04WS1749 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.3360m	0.3867m	0.4560m	0.6385m	0.6245	0.5536	0.5809	LINR	R	2.651722	1.641209		ug/L	0.5109	0.991	0.0500	0.99	15	
Chloromethane	0.5662m	0.5288m	0.5664m	0.6017m	0.6195m	0.5595m	0.5724m	AVRG	R		1.743684		ug/L	0.5735	5	0.1000	0.99	15	
Vinyl Chloride	0.2938	0.3035	0.3349	0.3245	0.3233	0.2690	0.2459	AVRG	R		3.341422		ug/L	0.2993	11	0.0500	0.99	15	
Bromomethane	0.3129	0.2902	0.3014	0.3252	0.3292	0.3046	0.3104	AVRG	R		3.219980		ug/L	0.3106	4	0.0500	0.99	15	
Chloroethane	0.2486	0.2271	0.2456	0.2642	0.2787	0.2526	0.2541	AVRG	R		3.952751		ug/L	0.2530	6	0.0500	0.99	15	
Trichlorofluoromethane	0.5979	0.6554	0.7218	0.9340	0.9063	0.8192	0.8244	LINR	R	1.244512	1.157445		ug/L	0.7799	0.991	0.0500	0.99	15	
Acetone		0.2680	0.2123	0.2189	0.2179	0.2423	0.2098	AVRG	R		4.382111		ug/L	0.2282	10	0.0500	0.99	15	
Freon 113	0.3433	0.2961	0.3808	0.4532	0.4319	0.4310	0.4068	AVRG	R		2.552085		ug/L	0.3918	14	0.0500	0.99	15	
1,1-Dichloroethene	0.3351	0.2904	0.3430	0.3906	0.3808	0.3797	0.3639	AVRG	R		2.818605		ug/L	0.3548	10	0.0500	0.99	15	
Methylene Chloride	0.6214	0.5350	0.5202	0.5205	0.5247	0.5149	0.4981	AVRG	R		1.874267		ug/L	0.5335	8	0.0500	0.99	15	
Carbon Disulfide	1.2987	1.1355	1.2877	1.4729	1.3952	1.4501	1.3778	AVRG	R		0.743271		ug/L	1.3454	9	0.0500	0.99	15	
MTBE	1.1779	1.2072	1.2336	1.3060	1.2983	1.3022	1.2598	AVRG	R		0.796806		ug/L	1.2550	4	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4287	0.3786	0.4242	0.4594	0.4361	0.4313	0.4211	AVRG	R		2.349466		ug/L	0.4256	6	0.0500	0.99	15	
Vinyl Acetate	0.9168	0.9881	1.0390	1.1596	1.1472	1.1770	1.1656	AVRG	R		0.921885		ug/L	1.0847	10	0.0500	0.99	15	
1,1-Dichloroethane	0.8709	0.7872	0.8558	0.9060	0.8670	0.8864	0.8549	AVRG	R		1.161200		ug/L	0.8612	4	0.1000	0.99	15	
2-Butanone	0.3094	0.3145	0.3074	0.3159	0.3175	0.3325	0.3218	AVRG	R		3.154517		ug/L	0.3170	3	0.0500	0.99	15	
2,2-Dichloropropane	0.5970	0.5328	0.6244	0.6888	0.6649	0.6761	0.6454	AVRG	R		1.580319		ug/L	0.6328	9	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.4863	0.4623	0.4862	0.5017	0.4831	0.4854	0.4612	AVRG	R		2.079526		ug/L	0.4809	3	0.0500	0.99	15	

ICV - GOOD ICV - VC↓

Flags used: m=manual integration - for ine. int. by Target.

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

11/04/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424442674001 Name: I3M826 Type: SOIL Date: 02-NOV-2004 17:10 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Chloroform	0.9622	0.9023	0.9193	0.9839	0.9475	0.9441	0.9090	AVRG	R		1.065734		ug/L	0.9383	3	0.0500	0.99	15	
Bromochloromethane	0.3021	0.2890	0.2903	0.2956	0.2862	0.2901	0.2817	AVRG	R		3.439819		ug/L	0.2907	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.6468	0.5365	0.6544	0.7123	0.6681	0.6822	0.6552	AVRG	R		1.536642		ug/L	0.6508	8	0.0500	0.99	15	
1,1-Dichloropropene	0.3992	0.3393	0.4128	0.4376	0.4347	0.4307	0.4250	AVRG	R		2.431026		ug/L	0.4113	8	0.0500	0.99	15	
Carbon Tetrachloride	0.3897	0.3244	0.3936	0.4282	0.4177	0.4179	0.4088	AVRG	R		2.517701		ug/L	0.3972	9	0.0500	0.99	15	
1,2-Dichloroethane	0.5927	0.5724	0.5968	0.5964	0.5757	0.5762	0.5576	AVRG	R		1.720821		ug/L	0.5811	3	0.0500	0.99	15	
Benzene	1.1124	1.0268	1.1139	1.1287	1.0688	1.0775	1.0494	AVRG	R		0.923778		ug/L	1.0825	3	0.0500	0.99	15	
Trichloroethene	0.3515	0.2975	0.3404	0.3403	0.3222	0.3353	0.3197	AVRG	R		3.034234		ug/L	0.3296	5	0.0500	0.99	15	
1,2-Dichloropropane	0.3335	0.3205	0.3406	0.3331	0.3270	0.3331	0.3239	AVRG	R		3.028037		ug/L	0.3302	2	0.0500	0.99	15	
Bromodichloromethane	0.4931	0.4970	0.5297	0.5300	0.5229	0.5242	0.5161	AVRG	R		1.937366		ug/L	0.5162	3	0.0500	0.99	15	
Dibromomethane	0.3346	0.3214	0.3513	0.3401	0.3232	0.3300	0.3216	AVRG	R		3.014368		ug/L	0.3317	3	0.0500	0.99	15	
4-Methyl-2-Pentanone	0.4219	0.4199	0.4418	0.4536	0.4383	0.4557	0.4613	AVRG	R		2.263529		ug/L	0.4418	4	0.0500	0.99	15	
Tetramethyl THF	0.8106	0.8478	0.8667	0.8642	0.8509	0.8987	0.8840	AVRG	R		1.162222		ug/L	0.8604	3	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.5018	0.5085	0.5527	0.5663	0.5462	0.5518	0.5440	AVRG	R		1.856075		ug/L	0.5388	4	0.0500	0.99	15	
Toluene	0.6638	0.5936	0.6561	0.6340	0.6088	0.6324	0.5958	AVRG	R		1.596500		ug/L	0.6264	4	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.4701	0.4770	0.5340	0.5376	0.5151	0.5319	0.5207	AVRG	R		1.951809		ug/L	0.5123	5	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2895	0.2727	0.2973	0.2824	0.2787	0.2806	0.2689	AVRG	R		3.553346		ug/L	0.2814	3	0.0500	0.99	15	
2-Hexanone	0.3770	0.3862	0.3742	0.4030	0.4134	0.4333	0.4315	AVRG	R		2.483500		ug/L	0.4027	6	0.0500	0.99	15	
1,3-Dichloropropane	0.6571	0.6283	0.6408	0.6541	0.6351	0.6554	0.6147	AVRG	R		1.560621		ug/L	0.6408	2	0.0500	0.99	15	
Tetrachloroethene	0.4040	0.3371	0.3817	0.4063	0.3999	0.4001	0.3784	AVRG	R		2.585377		ug/L	0.3868	6	0.0500	0.99	15	
Dibromochloromethane	0.4680	0.4546	0.4553	0.4905	0.5084	0.4998	0.4779	AVRG	R		2.086865		ug/L	0.4792	4	0.0500	0.99	15	
1,2-Dibromoethane	0.3498	0.3457	0.3702	0.3674	0.3474	0.3534	0.3526	AVRG	R		2.815260		ug/L	0.3552	3	0.0500	0.99	15	
Chlorobenzene	0.9854	0.8886	0.9097	0.9188	0.9018	0.8912	0.8494	AVRG	R		1.103238		ug/L	0.9064	5	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3717	0.3368	0.3661	0.3775	0.3628	0.3723	0.3553	AVRG	R		2.753176		ug/L	0.3632	4	0.0500	0.99	15	
Ethylbenzene	1.5496	1.3395	1.4421	1.5008	1.4448	1.4472	1.3841	AVRG	R		0.692515		ug/L	1.4440	5	0.0500	0.99	15	
m,p-Xylenes	0.5418	0.4685	0.4921	0.5037	0.4942	0.4902	0.4545	AVRG	R		2.031986		ug/L	0.4921	6	0.0500	0.99	15	
o-Xylene	0.5235	0.4759	0.5033	0.5113	0.5001	0.4941	0.4697	AVRG	R		2.012692		ug/L	0.4968	4	0.0500	0.99	15	
Styrene	0.8959	0.8569	0.8950	0.9021	0.8807	0.8727	0.8266	AVRG	R		1.141920		ug/L	0.8757	3	0.0500	0.99	15	
Bromoform	0.3659	0.3855	0.3823	0.4136	0.4047	0.4086	0.4039	AVRG	R		2.532158		ug/L	0.3949	4	0.1000	0.99	15	
Isopropylbenzene	2.5694	2.3211	2.4186	2.5105	2.4614	2.4696	2.3532	AVRG	R		0.409268		ug/L	2.4434	4	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	1.2068	1.1855	1.1011	1.0882	1.0705	1.1091	1.0584	AVRG	R		0.895175		ug/L	1.1171	5	0.3000	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424442674001 Name: I3M826 Type: SOIL Date: 02-NOV-2004 17:10 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
1,2,3-Trichloropropane	0.3026	0.3112	0.2684	0.2676	0.2530	0.2616	0.2519	AVRG	R		3.653210		ug/L	0.2737	9	0.0500	0.99	15	
Propylbenzene	3.1847	2.8104	2.9710	3.0806	2.9716	3.0062	2.7898	AVRG	R		0.336308		ug/L	2.9735	5	0.0500	0.99	15	
Bromobenzene	0.9477	0.8730	0.8374	0.7932	0.7616	0.7763	0.7226	AVRG	R		1.225539		ug/L	0.8160	9	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.0060	1.9231	1.9946	1.9719	1.9637	1.9911	1.8599	AVRG	R		0.510564		ug/L	1.9586	3	0.0500	0.99	15	
2-Chlorotoluene	2.5245	2.3119	2.2595	2.2376	2.2594	2.2256	2.0304	AVRG	R		0.441674		ug/L	2.2641	6	0.0500	0.99	15	
4-Chlorotoluene	2.3370	2.1637	2.1549	2.1476	2.0862	2.1232	1.9928	AVRG	R		0.466499		ug/L	2.1436	5	0.0500	0.99	15	
tert-Butylbenzene	1.7608	1.6187	1.7218	1.8435	1.7685	1.8035	1.7089	AVRG	R		0.572565		ug/L	1.7465	4	0.0500	0.99	15	
1,2,4-Trimethylbenzene	1.7693	1.7887	1.9036	1.9474	1.9520	1.9328	1.8571	AVRG	R		0.532284		ug/L	1.8787	4	0.0500	0.99	15	
sec-Butylbenzene	2.2522	2.0919	2.3960	2.5731	2.4568	2.5132	2.4314	AVRG	R		0.418796		ug/L	2.3878	7	0.0500	0.99	15	
para-Isopropyl Toluene	1.5852	1.5422	1.8018	1.8701	1.8166	1.8955	1.8164	AVRG	R		0.567819		ug/L	1.7611	8	0.0500	0.99	15	
1,3-Dichlorobenzene	1.4998	1.4032	1.3944	1.3645	1.3360	1.3315	1.2951	AVRG	R		0.727316		ug/L	1.3749	5	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5369	1.4160	1.4109	1.3795	1.3481	1.3396	1.2829	AVRG	R		0.720617		ug/L	1.3877	6	0.0500	0.99	15	
n-Butylbenzene	1.2515	1.2977	1.7370	1.8083	1.8184	1.8524	1.8666	QUAD	R	2.172498	0.531950	-4.30E-5	ug/L	1.6617	1.000	0.0500	0.99	15	
1,2-Dichlorobenzene	1.4652	1.3330	1.3369	1.3408	1.3405	1.3261	1.2600	AVRG	R		0.744469		ug/L	1.3432	5	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.2072	0.2260	0.2247	0.2430	0.2393	0.2457	0.2423	AVRG	R		4.299254		ug/L	0.2326	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.5449	0.6282	0.7693	0.7113	0.7711	0.7441	0.7197	AVRG	R		1.431912		ug/L	0.6984	12	0.0500	0.99	15	
Hexachlorobutadiene	0.4934	0.4434	0.5044	0.5931	0.5664	0.5592	0.5273	AVRG	R		1.898502		ug/L	0.5267	10	0.0500	0.99	15	
Naphthalene	0.6673	0.9295	1.2192	1.1605	1.3000	1.2710	1.2484	LINR	R	2.300692	0.772857		ug/L	1.1137	0.998	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.5597	0.6445	0.7822	0.7097	0.7671	0.7506	0.7068	AVRG	R		1.422591		ug/L	0.7029	11	0.0500	0.99	15	
Dibromofluoromethane	0.6059	0.6149	0.6314	0.6648	0.6278	0.6425	0.6340	AVRG	R		1.583244		ug/L	0.6316	3	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.5269	0.5473	0.5390	0.5384	0.5365	0.5314	0.5435	AVRG	R		1.860281		ug/L	0.5376	1	0.0500	0.99	15	
Trifluorotoluene	0.4135	0.3387	0.4221	0.4442	0.4302	0.4323	0.4208	AVRG	R		2.412331		ug/L	0.4145	8	0.0500	0.99	15	
Toluene-d8	1.0228	1.0185	1.0730	1.0425	1.0211	1.0451	1.0549	AVRG	R		0.961807		ug/L	1.0397	2	0.0500	0.99	15	
Bromofluorobenzene	1.2083	1.2440	1.1611	1.1506	1.1414	1.1939	1.1592	AVRG	R		0.847616		ug/L	1.1798	3	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : QC270706
Seqnum : 424444089007 Filename : ck307 Injected : 03-NOV-2004 12:38
Calnum : 424442674001 Caldate : 02-NOV-2004 Caltype : SOIL
Standards: 04WS1940 (5000X), 04WS1939 (5000X), 04WS2093 (5000X), 04WS1749 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	41.22240	ug/L	-18	30	m
Chloromethane	50.00000	41.51390	ug/L	-17	30	m
Vinyl Chloride	50.00000	36.52060	ug/L	-27	20	v- ***
Bromomethane	50.00000	46.89430	ug/L	-6	30	
Chloroethane	50.00000	46.82220	ug/L	-6	30	
Trichlorofluoromethane	50.00000	50.66320	ug/L	1	30	
Acetone	50.00000	49.05820	ug/L	-2	40	
Freon 113	50.00000	59.49190	ug/L	19	30	
1,1-Dichloroethene	50.00000	50.17880	ug/L	0	20	
Methylene Chloride	50.00000	49.08370	ug/L	-2	30	
Carbon Disulfide	50.00000	42.64000	ug/L	-15	30	
MTBE	50.00000	58.03740	ug/L	16	30	
trans-1,2-Dichloroethene	50.00000	48.64460	ug/L	-3	30	
Vinyl Acetate	50.00000	48.76270	ug/L	-2	40	
1,1-Dichloroethane	50.00000	48.36540	ug/L	-3	30	
2-Butanone	50.00000	50.28320	ug/L	1	40	
2,2-Dichloropropane	50.00000	51.86260	ug/L	4	30	
cis-1,2-Dichloroethene	50.00000	49.04680	ug/L	-2	30	
Chloroform	50.00000	58.00380	ug/L	16	20	
Bromochloromethane	50.00000	48.50940	ug/L	-3	30	
1,1,1-Trichloroethane	50.00000	51.43070	ug/L	3	30	
1,1-Dichloropropene	50.00000	47.88970	ug/L	-4	30	
Carbon Tetrachloride	50.00000	50.93450	ug/L	2	30	
1,2-Dichloroethane	50.00000	46.07950	ug/L	-8	30	
Benzene	50.00000	46.44180	ug/L	-7	30	
Trichloroethene	50.00000	48.06650	ug/L	-4	30	
1,2-Dichloropropane	50.00000	45.99470	ug/L	-8	20	
Bromodichloromethane	50.00000	48.98070	ug/L	-2	30	
Dibromomethane	50.00000	45.43440	ug/L	-9	30	
4-Methyl-2-Pentanone	50.00000	48.80220	ug/L	-2	40	
Tetramethyl THF	50.00000	43.52640	ug/L	-13	30	
cis-1,3-Dichloropropene	50.00000	47.45470	ug/L	-5	30	
Toluene	50.00000	47.17340	ug/L	-6	20	
trans-1,3-Dichloropropene	50.00000	45.29280	ug/L	-9	30	
1,1,2-Trichloroethane	50.00000	46.16400	ug/L	-8	30	
2-Hexanone	50.00000	51.98500	ug/L	4	40	
1,3-Dichloropropane	50.00000	47.46990	ug/L	-5	30	
Tetrachloroethene	50.00000	50.52720	ug/L	1	30	
Dibromochloromethane	50.00000	48.32770	ug/L	-3	30	
1,2-Dibromoethane	50.00000	46.58120	ug/L	-7	30	
Chlorobenzene	50.00000	48.67680	ug/L	-3	30	
1,1,1,2-Tetrachloroethane	50.00000	48.18610	ug/L	-4	30	
Ethylbenzene	50.00000	50.06420	ug/L	0	20	
m,p-Xylenes	100.0000	97.39970	ug/L	-3	30	
o-Xylene	50.00000	48.76100	ug/L	-2	30	
Styrene	50.00000	49.36720	ug/L	-1	30	
Bromoform	50.00000	51.74460	ug/L	3	30	

-=low bias m=manual integration v=ICV
Page 1 of 2

11/3/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : QC270706
Seqnum : 424444089007 Filename : ck307 Injected : 03-NOV-2004 12:38
Calnum : 424442674001 Caldate : 02-NOV-2004 Caltype : SOIL
Standards: 04WS1940 (5000X), 04WS1939 (5000X), 04WS2093 (5000X), 04WS1749 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Isopropylbenzene	50.00000	44.76750	ug/L	-10	30	
1,1,2,2-Tetrachloroethane	50.00000	45.01340	ug/L	-10	30	
1,2,3-Trichloropropane	50.00000	47.11410	ug/L	-6	30	
Propylbenzene	50.00000	49.29070	ug/L	-1	30	
Bromobenzene	50.00000	47.26490	ug/L	-5	30	
1,3,5-Trimethylbenzene	50.00000	49.29580	ug/L	-1	30	
2-Chlorotoluene	50.00000	47.08000	ug/L	-6	30	
4-Chlorotoluene	50.00000	46.50470	ug/L	-7	30	
tert-Butylbenzene	50.00000	49.72110	ug/L	-1	30	
1,2,4-Trimethylbenzene	50.00000	49.77920	ug/L	0	30	
sec-Butylbenzene	50.00000	50.71440	ug/L	1	30	
para-Isopropyl Toluene	50.00000	50.12500	ug/L	0	30	
1,3-Dichlorobenzene	50.00000	48.23220	ug/L	-4	30	
1,4-Dichlorobenzene	50.00000	47.09500	ug/L	-6	30	
n-Butylbenzene	50.00000	49.65860	ug/L	-1	30	
1,2-Dichlorobenzene	50.00000	47.58570	ug/L	-5	30	
1,2-Dibromo-3-Chloropropane	50.00000	48.83960	ug/L	-2	30	
1,2,4-Trichlorobenzene	50.00000	53.08950	ug/L	6	30	
Hexachlorobutadiene	50.00000	53.36860	ug/L	7	30	
Naphthalene	50.00000	51.67890	ug/L	3	30	
1,2,3-Trichlorobenzene	50.00000	53.57430	ug/L	7	30	
Dibromofluoromethane	50.00000	49.91320	ug/L	0	30	
1,2-Dichloroethane-d4	50.00000	48.49500	ug/L	-3	30	
Toluene-d8	50.00000	48.38870	ug/L	-3	30	
Bromofluorobenzene	50.00000	49.14820	ug/L	-2	30	

ISTD (ICAL=ck216)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1124762	1050714	-6.58	9.36	9.38	0.02
1,4-Difluorobenzene	1636574	1532979	-6.33	10.85	10.88	0.03
Chlorobenzene-d5	1318084	1209962	-8.20	15.87	15.90	0.03
1,4-Dichlorobenzene-d4	694748	638864	-8.04	20.16	20.19	0.03

-=low bias m=manual integration v=ICV
Page 2 of 2

11/3/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : IDF : 1.0
Seqnum : 424451340003 Filename : ck803 Injected : 08-NOV-2004 11:13
Calnum : 424442674001 Caldate : 02-NOV-2004 Caltype : SOIL
Standards: 04SS379 (10000X), 04WS1756 (5000X), 04WS1749 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5109	0.5579	50.00000	48.43680	ug/L	-3	30	0.0500	
Chloromethane	0.5735	0.5429	50.00000	47.33360	ug/L	-5	30	0.1000	m
Vinyl Chloride	0.2993	0.2854	50.00000	47.68260	ug/L	-5	20	0.0500	
Bromomethane	0.3106	0.2778	50.00000	44.71780	ug/L	-11	30	0.0500	
Chloroethane	0.2530	0.2359	50.00000	46.62180	ug/L	-7	30	0.0500	
Trichlorofluoromethane	0.7799	0.7831	50.00000	46.56450	ug/L	-7	30	0.0500	
Acetone	0.2282	0.3163	50.00000	69.30810	ug/L	39	40	0.0500	!c+
Freon 113	0.3918	0.4777	50.00000	60.96200	ug/L	22	30	0.0500	!c+
1,1-Dichloroethene	0.3548	0.3969	50.00000	55.93840	ug/L	12	20	0.0500	
Methylene Chloride	0.5335	0.5101	50.00000	47.79930	ug/L	-4	30	0.0500	
Carbon Disulfide	1.3454	1.4739	50.00000	54.77440	ug/L	10	30	0.0500	
MTBE	1.2550	1.3309	50.00000	53.02460	ug/L	6	30	0.0500	
trans-1,2-Dichloroethene	0.4256	0.4725	50.00000	55.50390	ug/L	11	30	0.0500	
Vinyl Acetate	1.0847	1.2300	50.00000	56.69480	ug/L	13	40	0.0500	
1,1-Dichloroethane	0.8612	0.9189	50.00000	53.35160	ug/L	7	30	0.1000	
2-Butanone	0.3170	0.3693	50.00000	58.24990	ug/L	16	40	0.0500	
2,2-Dichloropropane	0.6328	0.7656	50.00000	60.49360	ug/L	21	30	0.0500	!c+
cis-1,2-Dichloroethene	0.4809	0.5091	50.00000	52.93910	ug/L	6	30	0.0500	
Chloroform	0.9383	1.0094	50.00000	53.78900	ug/L	8	20	0.0500	
Bromochloromethane	0.2907	0.2828	50.00000	48.64180	ug/L	-3	30	0.0500	
1,1,1-Trichloroethane	0.6508	0.7487	50.00000	57.52420	ug/L	15	30	0.0500	
1,1-Dichloropropene	0.4113	0.4697	50.00000	57.09850	ug/L	14	30	0.0500	
Carbon Tetrachloride	0.3972	0.4552	50.00000	57.30520	ug/L	15	30	0.0500	
1,2-Dichloroethane	0.5811	0.6019	50.00000	51.78510	ug/L	4	30	0.0500	
Benzene	1.0825	1.1260	50.00000	52.00680	ug/L	4	30	0.0500	
Trichloroethene	0.3296	0.3588	50.00000	54.43700	ug/L	9	30	0.0500	
1,2-Dichloropropane	0.3302	0.3317	50.00000	50.21510	ug/L	0	20	0.0500	
Bromodichloromethane	0.5162	0.5341	50.00000	51.74220	ug/L	3	30	0.0500	
Dibromomethane	0.3317	0.3344	50.00000	50.40350	ug/L	1	30	0.0500	
4-Methyl-2-Pentanone	0.4418	0.4493	50.00000	50.85560	ug/L	2	40	0.0500	
Tetramethyl THF	0.8604	0.8880	50.00000	51.60190	ug/L	3	30	0.0500	
cis-1,3-Dichloropropene	0.5388	0.5663	50.00000	52.55920	ug/L	5	30	0.0500	
Toluene	0.6264	0.6450	50.00000	51.48510	ug/L	3	20	0.0500	
trans-1,3-Dichloropropene	0.5123	0.5419	50.00000	52.88870	ug/L	6	30	0.0500	
1,1,2-Trichloroethane	0.2814	0.2802	50.00000	49.77900	ug/L	0	30	0.0500	
2-Hexanone	0.4027	0.4085	50.00000	50.73000	ug/L	1	40	0.0500	
1,3-Dichloropropane	0.6408	0.6261	50.00000	48.85720	ug/L	-2	30	0.0500	
Tetrachloroethene	0.3868	0.4037	50.00000	52.18010	ug/L	4	30	0.0500	
Dibromochloromethane	0.4792	0.4759	50.00000	49.65460	ug/L	-1	30	0.0500	
1,2-Dibromoethane	0.3552	0.3511	50.00000	49.42720	ug/L	-1	30	0.0500	
Chlorobenzene	0.9064	0.9128	50.00000	50.35140	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3632	0.3570	50.00000	49.14850	ug/L	-2	30	0.0500	
Ethylbenzene	1.4440	1.5266	50.00000	52.85890	ug/L	6	20	0.0500	
m,p-Xylenes	0.4921	0.5011	100.0000	101.8280	ug/L	2	30	0.0500	
o-Xylene	0.4968	0.5197	50.00000	52.30080	ug/L	5	30	0.0500	
Styrene	0.8757	0.8899	50.00000	50.81020	ug/L	2	30	0.0500	

!=warning +=high bias c=CCV m=manual integration

11/09/04

11/8/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : IDF : 1.0
Seqnum : 424451340003 Filename : ck803 Injected : 08-NOV-2004 11:13
Calnum : 424442674001 Caldate : 02-NOV-2004 Caltype : SOIL
Standards: 04SS379 (10000X), 04WS1756 (5000X), 04WS1749 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.3949	0.3910	50.00000	49.50240	ug/L	-1	30	0.1000	
Isopropylbenzene	2.4434	2.3933	50.00000	48.97450	ug/L	-2	30	0.0500	
1,1,2,2-Tetrachloroethane	1.1171	1.0398	50.00000	46.53880	ug/L	-7	30	0.3000	
1,2,3-Trichloropropane	0.2737	0.2522	50.00000	46.06230	ug/L	-8	30	0.0500	
Propylbenzene	2.9735	2.9967	50.00000	50.39130	ug/L	1	30	0.0500	
Bromobenzene	0.8160	0.7484	50.00000	45.85710	ug/L	-8	30	0.0500	
1,3,5-Trimethylbenzene	1.9586	1.9964	50.00000	50.96340	ug/L	2	30	0.0500	
2-Chlorotoluene	2.2641	2.2232	50.00000	49.09640	ug/L	-2	30	0.0500	
4-Chlorotoluene	2.1436	2.1511	50.00000	50.17540	ug/L	0	30	0.0500	
tert-Butylbenzene	1.7465	1.7968	50.00000	51.43900	ug/L	3	30	0.0500	
1,2,4-Trimethylbenzene	1.8787	1.9051	50.00000	50.70290	ug/L	1	30	0.0500	
sec-Butylbenzene	2.3878	2.4918	50.00000	52.17720	ug/L	4	30	0.0500	
para-Isopropyl Toluene	1.7611	1.9115	50.00000	54.26910	ug/L	9	30	0.0500	
1,3-Dichlorobenzene	1.3749	1.3404	50.00000	48.74630	ug/L	-3	30	0.0500	
1,4-Dichlorobenzene	1.3877	1.3434	50.00000	48.40450	ug/L	-3	30	0.0500	
n-Butylbenzene	1.6617	1.9853	50.00000	54.55310	ug/L	9	30	0.0500	
1,2-Dichlorobenzene	1.3432	1.2997	50.00000	48.38000	ug/L	-3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2326	0.2354	50.00000	50.59770	ug/L	1	30	0.0500	
1,2,4-Trichlorobenzene	0.6984	0.8225	50.00000	58.88420	ug/L	18	30	0.0500	
Hexachlorobutadiene	0.5267	0.5857	50.00000	55.60220	ug/L	11	30	0.0500	
Naphthalene	1.1137	1.4051	50.00000	56.59930	ug/L	13	30	0.0500	
1,2,3-Trichlorobenzene	0.7029	0.7855	50.00000	55.87400	ug/L	12	30	0.0500	
Dibromofluoromethane	0.6316	0.6532	50.00000	51.70760	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.5376	0.5455	50.00000	50.73920	ug/L	1	30	0.0500	
Trifluorotoluene	0.4145	0.4513	50.00000	54.43620	ug/L	9	30	0.0500	
Toluene-d8	1.0397	1.0293	50.00000	49.49740	ug/L	-1	30	0.0500	
Bromofluorobenzene	1.1798	1.1647	50.00000	49.36200	ug/L	-1	30	0.0500	

ISTD (ICAL=ck216)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1124762	968217	-13.92	9.36	9.37	0.01
1,4-Difluorobenzene	1636574	1436710	-12.21	10.85	10.87	0.02
Chlorobenzene-d5	1318084	1207656	-8.38	15.87	15.89	0.02
1,4-Dichlorobenzene-d4	694748	665191	-4.25	20.16	20.18	0.02

11/19/04

!=warning +=high bias c=CCV m=manual integration

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 08-NOV-2004
Sequence: 424451340 (ck8)
Instrument ID: MSVOA03

ICAL Filename: ck216
Date Analyzed: 02-NOV-2004
Time Analyzed: 18:52

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1124762	9.36	1636574	10.85	1318084	15.87	694748	20.16
LOWER LIMIT	562381	8.86	818287	10.35	659042	15.37	347374	19.66
UPPER LIMIT	2249524	9.86	3273148	11.35	2636168	16.37	1389496	20.66

TYPE	SAMPLE	#								
CCV/LCS	QC271258	003	968217	9.37	1436710	10.87	1207656	15.89	665191	20.18
PREPBLK	QC271260	004	1065538	9.37	1545497	10.87	1149057	15.89	549981	20.18
BLANK	QC271259	005	1042212	9.37	1519101	10.87	1195978	15.89	599130	20.18
SAMPLE	175531-002	006	1059314	9.38	1549102	10.87	1187529	15.89	363348	20.18
MSS	175857-001	007	939125	9.38	1382962	10.88	1146742	15.89	541497	20.18
SAMPLE	175857-002	008	995785	9.38	1442654	10.87	1122411	15.89	521392	20.18
SAMPLE	175857-003	009	954651	9.38	1390796	10.87	1105783	15.89	522702	20.18
SAMPLE	175697-008	010	1050239	9.38	1547555	10.87	1282870	15.88	633242	20.17
SAMPLE	175769-001	011	1110448	9.38	1627887	10.87	1268735	15.89	646821	20.17
SAMPLE	175769-002	012	1076231	9.38	1595668	10.87	1201901	15.88	636258	20.17
SAMPLE	175769-004	013	980599	9.37	1457946	10.87	1239340	15.89	659001	20.18
SAMPLE	175769-005	014	1051527	9.38	1521539	10.87	1229176	15.88	634262	20.17
SAMPLE	175835-003	015	1049696	9.38	1549293	10.87	1207592	15.88	590334	20.17
SAMPLE	175835-004	016	1075597	9.37	1537255	10.87	1216539	15.88	556633	20.17
SAMPLE	175835-005	017	973785	9.37	1482524	10.87	1162828	15.88	542522	20.17
SAMPLE	175835-006	018	1040771	9.37	1568583	10.87	1133865	15.89	481341	20.17
SAMPLE	175838-001	019	1018965	9.37	1488130	10.86	1165490	15.88	574215	20.17
SAMPLE	175769-003	020	1023769	9.37	1481007	10.86	1150132	15.88	620249	20.16
MS	QC271323	021	998809	9.37	1499940	10.86	1222820	15.88	636305	20.17
MSD	QC271324	022	982323	9.37	1433289	10.86	1188861	15.88	649960	20.17

MSVOA 03 8260 STICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 424442674 Instrument: MSVOA03 HP GCMS VOA 03 Begun: 02-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ck201	X	IB			02-NOV-2004 09:54	1.0					1	
002	ck202	TUN	BFB			02-NOV-2004 10:36	1.0					2	
003	ck203	CCV	50PPB			02-NOV-2004 11:00	1.0	4	5000			3 4 1 cc+	
004	ck204	X	IB			02-NOV-2004 12:06	1.0					1	
005	ck205	X	IB			02-NOV-2004 12:40	1.0					1	
006	ck206	X	IB			02-NOV-2004 13:14	1.0					1	
007	ck207	X	IB			02-NOV-2004 13:48	1.0					1	
008	ck208	X	IB			02-NOV-2004 14:34	1.0					1	
009	ck209	TUN	BFB			02-NOV-2004 15:09	1.0					2	
010	ck210	X	IB			02-NOV-2004 15:29	1.0					1	
011	ck211	X	IB			02-NOV-2004 16:03	1.0					1	
012	ck212	X	CALIB IB			02-NOV-2004 16:37	1.0					1	
013	ck213	ICAL	5PPB			02-NOV-2004 17:10	1.0					3 4 1	
014	ck214	ICAL	10PPB			02-NOV-2004 17:44	1.0					3 4 1	
015	ck215	ICAL	20PPB			02-NOV-2004 18:18	1.0					3 4 1	
016	ck216	ICAL	50PPB			02-NOV-2004 18:52	1.0					3 4 1	
017	ck217	ICAL	60PPB			02-NOV-2004 19:26	1.0					3 4 1	
018	ck218	ICAL	75PPB			02-NOV-2004 20:00	1.0					3 4 1	
019	ck219	ICAL	100PPB			02-NOV-2004 20:34	1.0					3 4 1	
020	ck220	~~ICV~~	6 11/3/04			02-NOV-2004 21:07	1.0	1	5000			5 1	
021	ck221	~~ICV~~				02-NOV-2004 21:41	1.0	1	5000			6 7 1	
022	ck222	X	IB			02-NOV-2004 22:15	1.0					1	
023	ck223	X	IB			02-NOV-2004 22:49	1.0					1	
024	ck224	X	IB			02-NOV-2004 23:23	1.0					1	

ICAL-GOOD, ICV-VCF

Stds used: 1=04WS1749 2=04WS1238 3=04SS379 4=04WS1756 5=04WS1969 6=04WS1940 7=04WS1939
Flags used: +=high bias cc=CCV CCC failure

Analyst: [signature] Date: 11/3/04
Page ~~1 of 1~~

11/04/04

MSVOA 03 8260 S ICV.

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 424444089 Instrument: MSVOA03 HP GCMS VOA 03 Begun: 03-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ck301	X	IB			03-NOV-2004 09:29	1.0						1	
002	ck302	TUN	BFB			03-NOV-2004 10:00	1.0						2	
003	ck303	CCV	50PPB			03-NOV-2004 10:17	1.0	4		5000			3 4 1 cc+	
004	ck304	TUN	BFB			03-NOV-2004 11:12	1.0	1					2 t	
005	ck305	TUN	BFB			03-NOV-2004 11:33	1.0						2	
006	ck306	CCV	50PPB			03-NOV-2004 11:49	1.0			5000			3 4 1	
007	ck307	BS/ICV	QC270706	96100	Soil	03-NOV-2004 12:38	1.0	1		5000			5 6 7 1	
008	ck308	BSD	QC270707	96100	Soil	03-NOV-2004 13:11	1.0	1		5000			5 6 7 1	
009	ck309	LCS	QC270709	96101	TCLP L	03-NOV-2004 13:45	1.0	2	1	5000			5 6 7 1	1:MTLNCL=135.537
010	ck310	BLANK	QC270710	96101	TCLP L	03-NOV-2004 14:19	1.0		1	5000			1	
011	ck311	BLANK	QC270708	96100	Soil	03-NOV-2004 14:57	1.0		1	5000			1	
012	ck312	MSS	175640-001	96101	TCLP L	03-NOV-2004 15:31	0.93	1	1	5000			1	1:MTLNCL=151.937
013	ck313	SAMPLE	175630-001	96101	TCLP L	03-NOV-2004 16:05	0.98			5000			1	1:MTLNCL=134.403

112 seq. still running - ICV only

Stds used: 1=04WS1749 2=04WS1238 3=04SS379 4=04WS1756 5=04WS1940 6=04WS1939 7=04WS2093
Flags used: +=high bias cc=CCV CCC failure t=tune failure

Analyst: [signature] Date: 11/3/04
Page 1 of 1

11/04/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 424451340 Instrument: MSVOA03 HP GCMS VOA 03 Begun: 08-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ck801	X	IB			08-NOV-2004 10:20	1.0						1	
002	ck802	TUN	BFB			08-NOV-2004 10:56	1.0						2	
003	ck803	CCV/LCS	QC271258	96233	Soil	08-NOV-2004 11:13	1.0	1		5000			3 4 1	
004	ck804	PREPBLK	QC271260	96233	Soil	08-NOV-2004 12:04	25.0		1	5000			1 MeOH PB. 11/4 – NOT USED	
005	ck805	BLANK	QC271259	96233	Soil	08-NOV-2004 12:39	1.0		1	5000			1	
006	ck806	SAMPLE	175531-002	96233	Soil	08-NOV-2004 13:13	2.0		2	5000	A	Soil	1	
007	ck807	MSS	175857-001	96233	Soil	08-NOV-2004 14:12	0.9434		1	5000	A-D		1	
008	ck808	SAMPLE	175857-002	96233	Soil	08-NOV-2004 14:45	0.8929		1	5000			1	
009	ck809	SAMPLE	175857-003	96233	Soil	08-NOV-2004 15:20	0.9804		1	5000			1	
010	ck810	SAMPLE	175697-008	96233	Soil	08-NOV-2004 15:54	50.0		1	5000	B		1	4:MEK=319.884 NT
011	ck811	SAMPLE	175769-001	96233	Soil	08-NOV-2004 16:28	0.9091		1	5000	E		1	
012	ck812	SAMPLE	175769-002	96233	Soil	08-NOV-2004 17:01	1.087		1	5000	G		1	1:NAPH=106.684 NT
013	ck813	SAMPLE	175769-004	96233	Soil	08-NOV-2004 17:36	1.02		1	5000	D		1	
014	ck814	SAMPLE	175769-005	96233	Soil	08-NOV-2004 18:10	0.9615		1	5000			1	
015	ck815	SAMPLE	175835-003	96233	Soil	08-NOV-2004 18:44	1.0		1	5000	A		1	
016	ck816	SAMPLE	175835-004	96233	Soil	08-NOV-2004 19:18	0.9615		1	5000			1	
017	ck817	SAMPLE	175835-005	96233	Soil	08-NOV-2004 19:52	0.9615		1	5000			1	
018	ck818	SAMPLE	175835-006	96233	Soil	08-NOV-2004 20:26	0.9615		1	5000			1	
019	ck819	SAMPLE	175838-001	96233	Soil	08-NOV-2004 21:00	0.9615			5000			1	
020	ck820	SAMPLE	175769-003	96233	Soil	08-NOV-2004 21:34	1250		1	5000			1	
021	ck821	MS	QC271323	96233	Soil	08-NOV-2004 22:08	0.9434	1		5000	A-D		5 6 7 1	
022	ck822	MSD	QC271324	96233	Soil	08-NOV-2004 22:42	0.9434	1		5000			5 6 7 1	
023	ck823	X	IB			08-NOV-2004 23:16	1.0						1	
024	ck824	X	IB			08-NOV-2004 23:50	1.0						1	
025	ck825	X	IB			09-NOV-2004 00:23	1.0						1	
026	ck826	X	3A			09-NOV-2004 00:57	1.0						1	
027	ck827	X	3B			09-NOV-2004 01:31	1.0						1	

IHAC – Good ICV – VCV CCV – Good (WL: Ace↑; F113↑; 22DCP↑)

Stds used: 1=04WS1749 2=04WS1238 3=04SS379 4=04WS1756 5=04WS1940 6=04WS1939 7=04WS2093

Analyst: AA Date: 11/9/04

11/09/04

REPORTING SUMMARY FOR 175838 8260 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane (EDB) | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloroethane-d4 (Surr) | 1,2-Dichloroethane-d4 (Surr) | 1,2-Dichloroethane-d4 (Surr)

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/8

LOC Prepped by:

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	175531-2				3	PR 25x - comp 4 cores		
2	~~175689 e~~					~~PR 1x, comp~~		
3	175857-1	5.3	A-D			MS/MS/MSD comp 4 cores		
4	2	5.6						
5	3	5.1						
6	175835-3	5.0						
7	4	5.2						
8	5	5.2						
9	6	5.2						
10	175838-1	5.1						
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	~~175697-6~~					~~PR 25x, o.p.~~		
2	175697-8				3	PR 50x, Gluber o.p.		
3	175769-3					PR 1,250x, load last		
4	175769-1	5.5	E			1x		
5	2	4.6	G			1x		
6	4	4.9	D			1x		
7	5	5.2	D			1x load near end		
8	175837-1							
9	2							
10	3							
11	4							
12	5							
13	175835-5							
14	6							
15	7							
16	8					1x5		
17	9							

F:/home/terri/templates/Soilprepsheet.xls

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
1,1-Dichloroethene	ug/Kg	08/25/04	0.70	01/07/04	0.71	02/13/04	0.45
Benzene	ug/Kg	08/25/04	0.58	01/07/04	0.43	02/16/04	0.055
Trichloroethene	ug/Kg	08/25/04	0.54	01/07/04	1.1	02/16/04	0.11
Toluene	ug/Kg	08/25/04	0.47	01/07/04	0.59	02/16/04	0.13
Chlorobenzene	ug/Kg	08/25/04	0.58	01/07/04	0.39	02/16/04	0.076
Freon 12	ug/Kg	08/25/04	0.49	01/07/04	1.4	02/16/04	0.084
Chloromethane	ug/Kg	08/25/04	0.82	01/07/04	0.90	02/16/04	0.12
Vinyl Chloride	ug/Kg	08/25/04	0.79	01/07/04	1.9	02/16/04	0.32
Bromomethane	ug/Kg	08/25/04	1.4	01/07/04	0.87	02/16/04	0.27
Chloroethane	ug/Kg	08/25/04	0.60	01/07/04	0.86	02/16/04	0.26
Trichlorofluoromethane	ug/Kg	08/25/04	0.80	01/07/04	0.73	02/16/04	0.15
Acetone	ug/Kg	08/25/04	1.7	01/07/04	2.9	02/13/04	1.0
Freon 113	ug/Kg	08/25/04	0.81	01/07/04	0.73	02/16/04	0.11
Methylene Chloride	ug/Kg	08/25/04	0.38	01/07/04	1.1	02/13/04	0.65
MTBE	ug/Kg	08/25/04	0.43	01/07/04	0.58	02/16/04	0.12
Carbon Disulfide	ug/Kg	08/31/04	4.0	01/07/04	0.92	02/16/04	0.10
trans-1,2-Dichloroethene	ug/Kg	08/25/04	0.47	01/07/04	0.54	02/16/04	0.20
Vinyl Acetate	ug/Kg	08/25/04	0.66	01/07/04	0.68	02/16/04	0.073
1,1-Dichloroethane	ug/Kg	08/25/04	0.48	01/07/04	0.45	02/16/04	0.085
2-Butanone	ug/Kg	08/25/04	2.0	01/07/04	1.6	02/16/04	0.12
cis-1,2-Dichloroethene	ug/Kg	08/25/04	0.79	01/07/04	0.31	02/16/04	0.095
2,2-Dichloropropane	ug/Kg	08/25/04	0.78	01/07/04	0.86	02/16/04	0.058
Chloroform	ug/Kg	08/25/04	0.72	01/07/04	0.44	02/16/04	0.12
Bromochloromethane	ug/Kg	08/25/04	0.56	01/07/04	0.74	02/16/04	0.13
1,1,1-Trichloroethane	ug/Kg	08/25/04	1.0	01/07/04	0.50	02/16/04	0.13
1,1-Dichloropropene	ug/Kg	08/25/04	0.65	01/07/04	0.90	02/16/04	0.081
Carbon Tetrachloride	ug/Kg	08/25/04	0.59	01/07/04	0.45	02/13/04	0.36
1,2-Dichloroethane	ug/Kg	08/25/04	0.51	01/07/04	0.66	02/16/04	0.091
1,2-Dichloropropane	ug/Kg	08/25/04	0.99	01/07/04	0.44	02/16/04	0.096
Bromodichloromethane	ug/Kg	08/25/04	0.71	01/07/04	0.41	02/16/04	0.13
Dibromomethane	ug/Kg	08/25/04	0.59	01/07/04	0.69	02/16/04	0.16
2-Chloroethylvinylether	ug/Kg	01/30/03	0.25	08/08/03	0.37	02/12/03	0.31
4-Methyl-2-Pentanone	ug/Kg	08/25/04	1.6	01/07/04	0.73	02/13/04	0.25
Tetramethyl THF	ug/Kg	08/25/04	0.88	01/07/04	0.43		
cis-1,3-Dichloropropene	ug/Kg	08/25/04	0.52	01/07/04	0.41	02/13/04	0.26
trans-1,3-Dichloropropene	ug/Kg	08/25/04	0.80	01/07/04	0.54	02/16/04	0.091
1,1,2-Trichloroethane	ug/Kg	08/25/04	0.78	01/07/04	0.55	02/16/04	0.25
2-Hexanone	ug/Kg	08/25/04	0.81	01/07/04	0.50	02/16/04	0.12
1,3-Dichloropropane	ug/Kg	08/25/04	0.51	01/07/04	0.41	02/16/04	0.048
Tetrachloroethene	ug/Kg	08/25/04	0.61	01/07/04	0.58	02/16/04	0.085
Dibromochloromethane	ug/Kg	08/25/04	0.50	01/07/04	0.40	02/16/04	0.073
1,2-Dibromoethane	ug/Kg	08/25/04	0.42	01/07/04	0.35	02/16/04	0.10
1,1,1,2-Tetrachloroethane	ug/Kg	08/25/04	0.58	01/07/04	0.67	02/16/04	0.11
Ethylbenzene	ug/Kg	08/25/04	0.42	01/07/04	0.49	02/16/04	0.065
m,p-Xylenes	ug/Kg	08/25/04	1.2	01/07/04	1.3	02/16/04	0.18
o-Xylene	ug/Kg	08/25/04	0.33	01/07/04	0.77	02/16/04	0.092
Styrene	ug/Kg	08/25/04	0.34	01/07/04	0.46	02/16/04	0.057
Bromoform	ug/Kg	08/25/04	0.82	01/07/04	0.38	02/16/04	0.18
Isopropylbenzene	ug/Kg	08/25/04	0.71	01/07/04	0.58	02/16/04	0.098
1,1,2,2-Tetrachloroethane	ug/Kg	08/25/04	0.95	01/07/04	0.48	02/16/04	0.082
1,2,3-Trichloropropane	ug/Kg	08/25/04	1.5	01/07/04	0.91	02/16/04	0.18

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
Propylbenzene	ug/Kg	08/25/04	0.65	01/07/04	0.53	02/16/04	0.078
Bromobenzene	ug/Kg	08/25/04	0.85	01/07/04	0.37	02/16/04	0.18
1,3,5-Trimethylbenzene	ug/Kg	08/25/04	0.74	01/07/04	1.2	02/16/04	0.069
2-Chlorotoluene	ug/Kg	08/25/04	0.58	01/07/04	0.60	02/16/04	0.089
4-Chlorotoluene	ug/Kg	08/25/04	0.59	01/07/04	0.62	02/16/04	0.099
tert-Butylbenzene	ug/Kg	08/25/04	0.50	01/07/04	0.56	02/16/04	0.069
1,2,4-Trimethylbenzene	ug/Kg	08/25/04	0.79	01/07/04	1.8	02/16/04	0.069
sec-Butylbenzene	ug/Kg	08/25/04	0.70	01/07/04	0.83	02/16/04	0.073
para-Isopropyl Toluene	ug/Kg	08/25/04	0.68	01/07/04	1.2	02/16/04	0.12
1,3-Dichlorobenzene	ug/Kg	08/25/04	0.63	01/07/04	0.32	02/16/04	0.13
1,4-Dichlorobenzene	ug/Kg	08/25/04	0.56	01/07/04	0.57	02/16/04	0.12
n-Butylbenzene	ug/Kg	08/25/04	0.85	01/07/04	2.2	02/16/04	0.11
1,2-Dichlorobenzene	ug/Kg	08/25/04	0.40	01/07/04	0.49	02/16/04	0.11
1,2-Dibromo-3-Chloropropane	ug/Kg	08/31/04	1.5	01/07/04	0.57	02/13/04	0.56
1,2,4-Trichlorobenzene	ug/Kg	08/25/04	0.84	01/07/04	2.7	02/16/04	0.23
Hexachlorobutadiene	ug/Kg	08/25/04	1.1	01/07/04	0.89	02/16/04	0.081
Naphthalene	ug/Kg	08/25/04	0.76	01/07/04	2.5	02/16/04	0.15
1,2,3-Trichlorobenzene	ug/Kg	08/25/04	0.60	01/07/04	2.5	02/16/04	0.16
tert-Butyl Alcohol (TBA)	ug/Kg	08/25/04	13	12/22/03	10	09/22/04	8.8
Isopropyl Ether (DIPE)	ug/Kg	08/25/04	0.48	12/22/03	0.65	09/22/04	0.52
Ethyl tert-Butyl Ether (ETBE)	ug/Kg	08/25/04	0.20	12/22/03	0.79	09/22/04	0.42
Methyl tert-Amyl Ether (TAME)	ug/Kg	08/25/04	0.48	12/22/03	0.68	09/22/04	0.64
Isopropanol	ug/Kg	08/25/04	22	12/22/03	9.3	09/22/04	9.0
Ethanol	ug/Kg	08/25/04	84	12/22/03	72	09/22/04	150
Cyclohexanone	ug/Kg	08/25/04	2.0			09/22/04	14
Tetrahydrofuran	ug/Kg	08/25/04	1.2				
Gasoline C6-C10	mg/Kg					09/07/04	0.018
Gasoline C7-C12	mg/Kg					09/07/04	0.014
Dibromofluoromethane	ug/Kg	08/25/04	2.4	08/08/03	3.0		
1,2-Dichloroethane-d4	ug/Kg	08/25/04	2.7	08/08/03	2.9		
Toluene-d8	ug/Kg	08/25/04	2.4	08/08/03	2.2		
Bromofluorobenzene	ug/Kg	08/25/04	4.2	08/08/03	2.3		
Trifluorotoluene	ug/Kg	08/25/04	0.41				

Curtis & Tompkins, Ltd.

MEMO

RECEIVED
JAN 3 1 2005
TREADWELL & ROLLO

Date: January 28, 2005

To: Sigrida Reinis, T&R

From: Steve Stanley, C&T

RE: Amendment to SDG 176210

Please add these pages to the end of the hardcopy report for SDG 176210.

AMENDED

04-5546

1/20/05

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176210	Collection Date:	12/01/2004
Project ID:	Presidio Baker Beach 3	Service ID:	45546	Collected by:	
		Lab Sample ID:	04G4163-MB-01	Received Date:	12/01/2004
Sample ID:	**04G4163-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	03:33
Data File Name:	4163G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates			Control Limit, %	Surro. Rec.%
1	2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	90
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	93
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176210	Collection Date:	11/22/2004
Project ID:	Presidio Baker Beach 3	Service ID:	45546	Collected by:	
		Lab Sample ID:	04-5546-1	Received Date:	11/24/2004
Sample ID:	**BB3EX149[0.5]**	Sample Matrix	Soil	Moisture %:	4.3
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	05:35
Data File Name:	5546.001	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.026	<0.026	U
2	2,4 DB	94-82-6	mg/kg	0.10	<0.10	U
3	DALAPON	75-99-0	mg/kg	0.10	<0.10	U
4	DICAMBA	1918-00-9	mg/kg	0.010	<0.010	U
5	DICHLOROPROP	120-36-5	mg/kg	0.026	<0.026	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.026	<0.026	U
7	MCPA	94-74-6	mg/kg	5.2	<5.2	U
8	MCPP	93-65-2	mg/kg	5.2	<5.2	U
9	2,4,5-T	93-76-5	mg/kg	0.010	<0.010	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.010	<0.010	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	65
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	72
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	045546
Project ID:	Presidio Baker Beach 3	Project No:	176210	Sample Matrix:	Soil
		Batch No:	04G4163		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G4163-MB-01	04G4163-MB-01	90	0
2	04G4163-LCS-01	04G4163-LCS-01	83	0
3	04G4163-LSD-01	04G4163-LSD-01	83	0
4	BB3EX149[0.5]	04-5546-1	65	0
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	45546
Project ID:	Presidio Baker Beach 3	Project No:	176210	Sample Matrix:	Soil
		Batch No:	04G4163		
LCS Filename:	4163G.L01	Date Analyzed:	120904	Time Analyzed:	04:14
LCSD Filename:	4163G.J01	Date Analyzed:	120904	Time Analyzed:	04:55

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0460	92	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0469	94	65-135
2,4,5-T	mg/kg	0.050	0	0.0357	71	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0447	89	3	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0464	93	1	35	65-135
2,4,5-T	mg/kg	0.050	0.0370	74	4	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 1 Dalapon

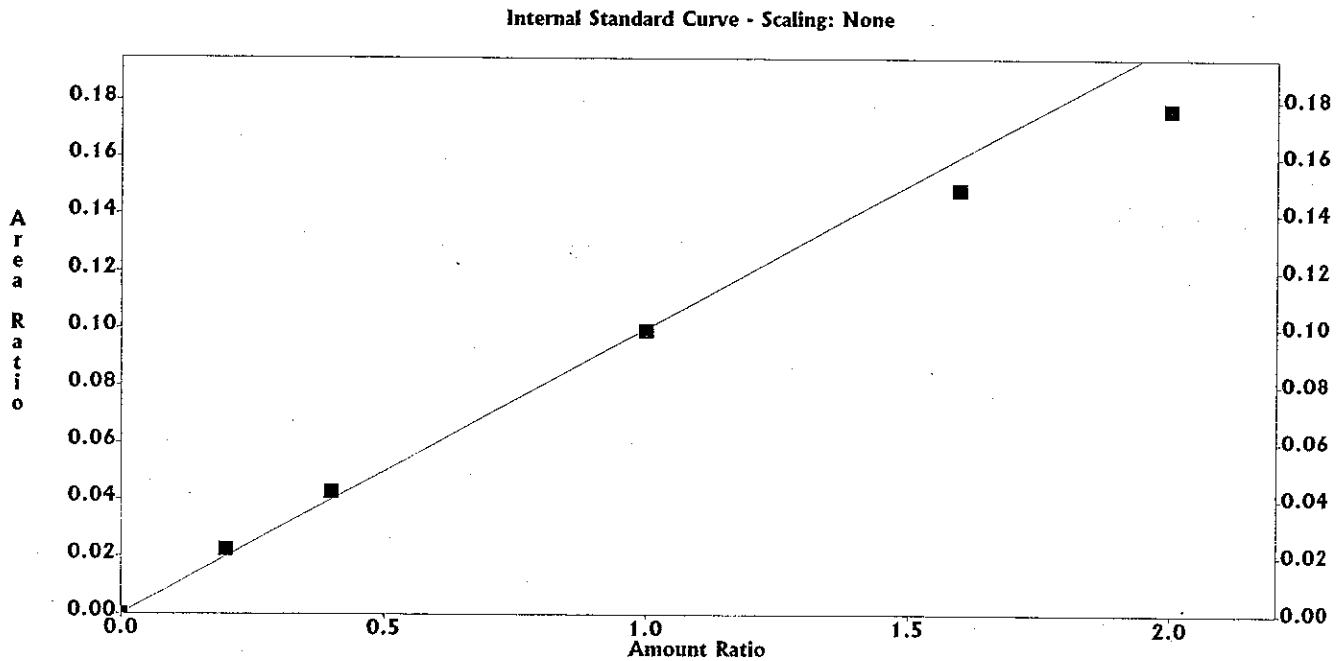
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0225	0.2	0.1127	0.0225							0
2	0.0428	0.4	0.107	0.0428							0
3	0.0993	1	0.0993	0.0993							0
4	0.1487	1.6	0.09292	0.1487							0
5	0.1771	2	0.08856	0.1771							0

Calib Flag: Replace

Average RF: 0.100089
RF StdDev: 0.00988719
RF %RSD: 9.878

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.100089



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

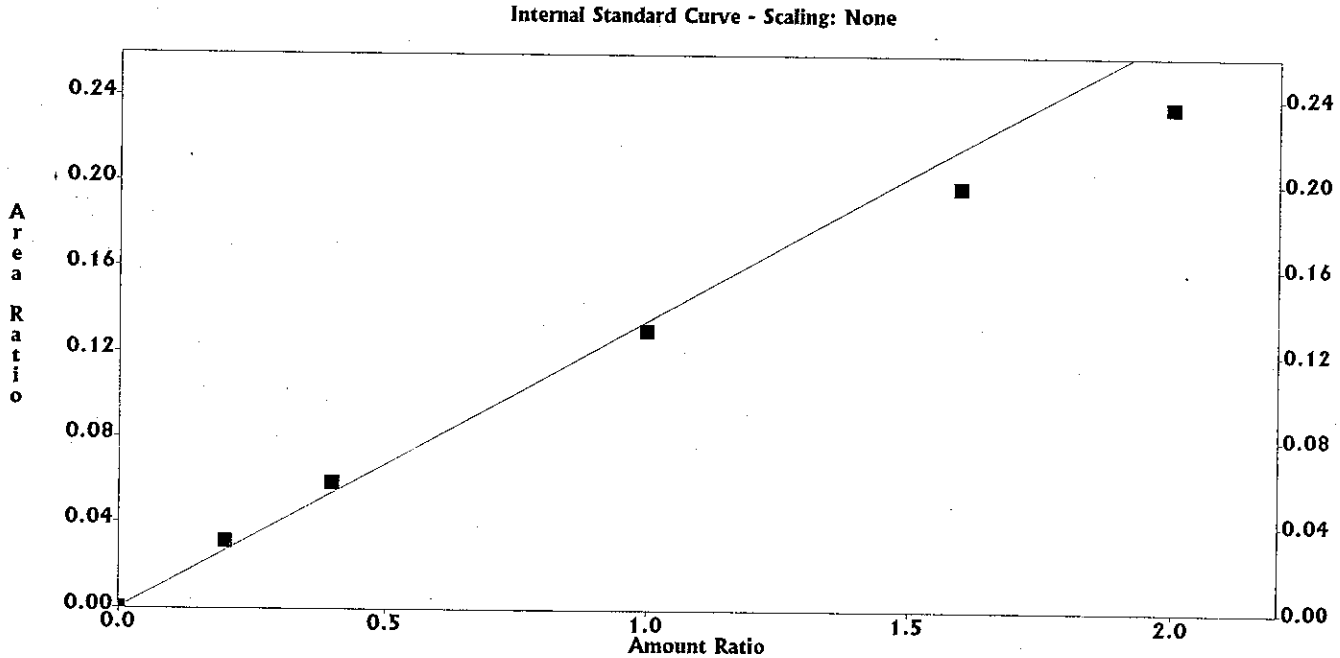
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0313	0.2	0.1567	0.0313							0
2	0.0587	0.4	0.1468	0.0587							0
3	0.1305	1	0.1305	0.1305							0
4	0.1979	1.6	0.1237	0.1979							0
5	0.2363	2	0.1182	0.2363							0

Calib Flag: Replace

Average RF: 0.13516
RF StdDev: 0.0161433
RF %RSD: 11.944

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.13516



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 3 4-Nitrophenol

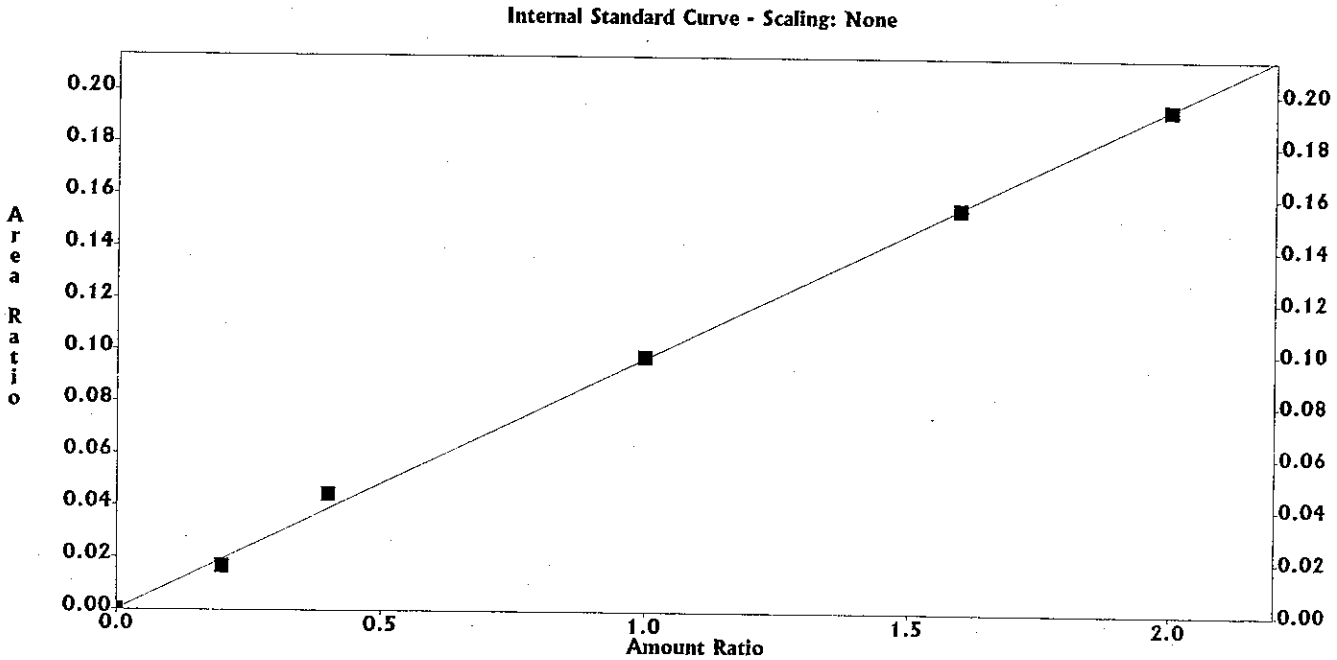
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0168	0.2	0.08392	0.0168							0
2	0.0443	0.4	0.1108	0.0443							0
3	0.0980	1	0.09797	0.0980							0
4	0.1554	1.6	0.09713	0.1554							0
5	0.1943	2	0.09713	0.1943							0

Calib Flag: Replace

Average RF: 0.0974005
RF StdDev: 0.00952204
RF %RSD: 9.776

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0974005



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 4 DCAA(Surr)

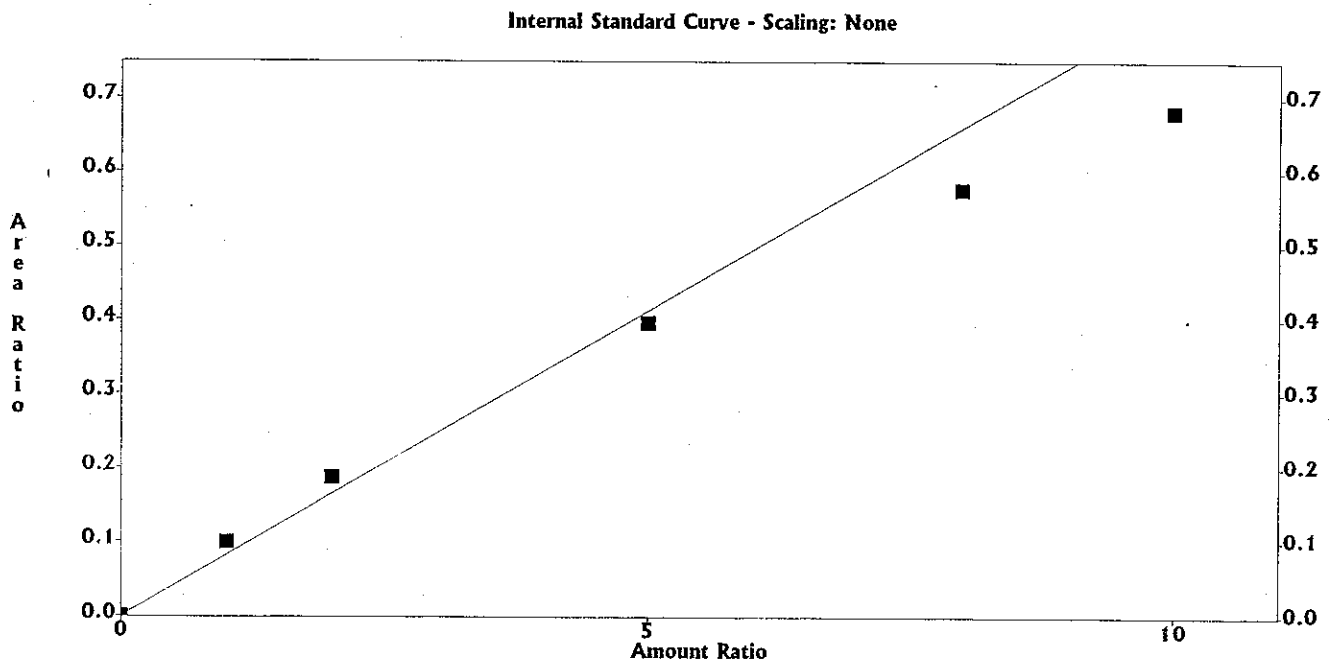
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0994	1	0.0994	0.0994							0
2	0.1875	2	0.09375	0.1875							0
3	0.3964	5	0.07928	0.3964							0
4	0.5766	8	0.07208	0.5766							0
5	0.6816	10	0.06816	0.6816							0

Calib Flag: Replace

Average RF: 0.0825338
RF StdDev: 0.013572
RF %RSD: 16.444

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0825338



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 5 Dicamba

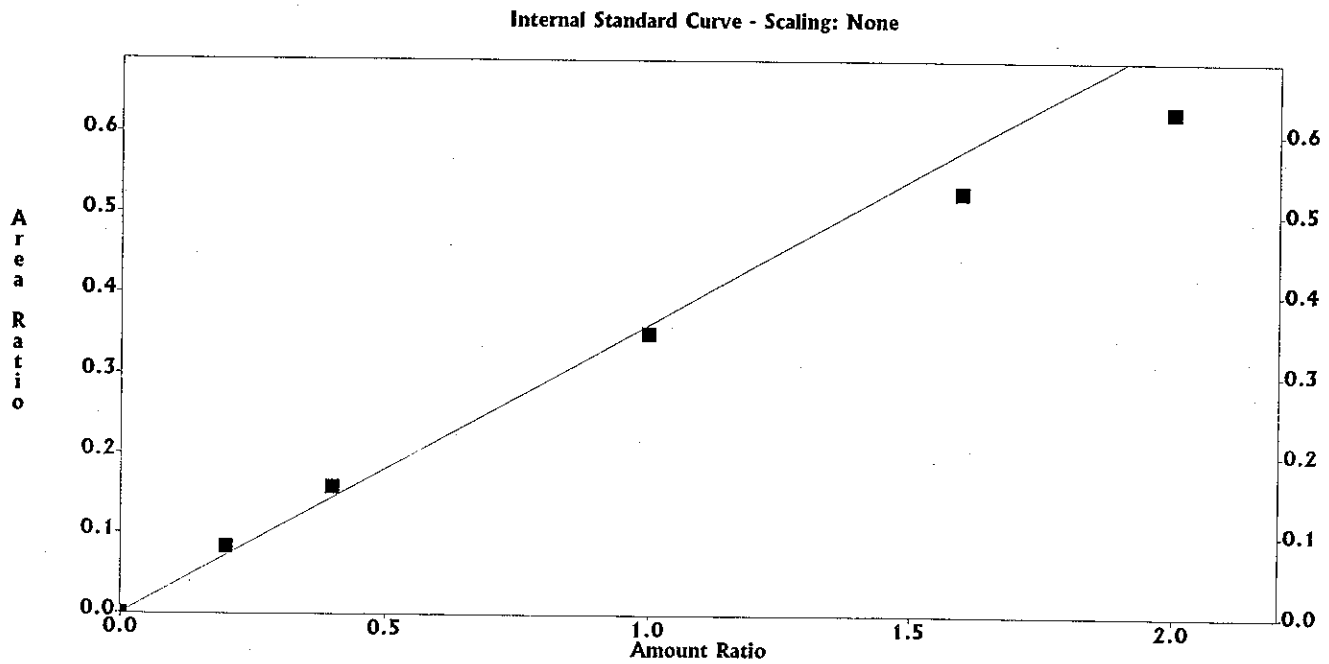
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0838	0.2	0.4189	0.0838							0
2	0.1585	0.4	0.3961	0.1585							0
3	0.3509	1	0.3509	0.3509							0
4	0.5264	1.6	0.329	0.5264							0
5	0.6287	2	0.3143	0.6287							0

Calib Flag: Replace

Average RF: 0.361851
RF StdDev: 0.0443894
RF %RSD: 12.267

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.361851



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 6 MCPP(ppm)

* - Replicate Not Used

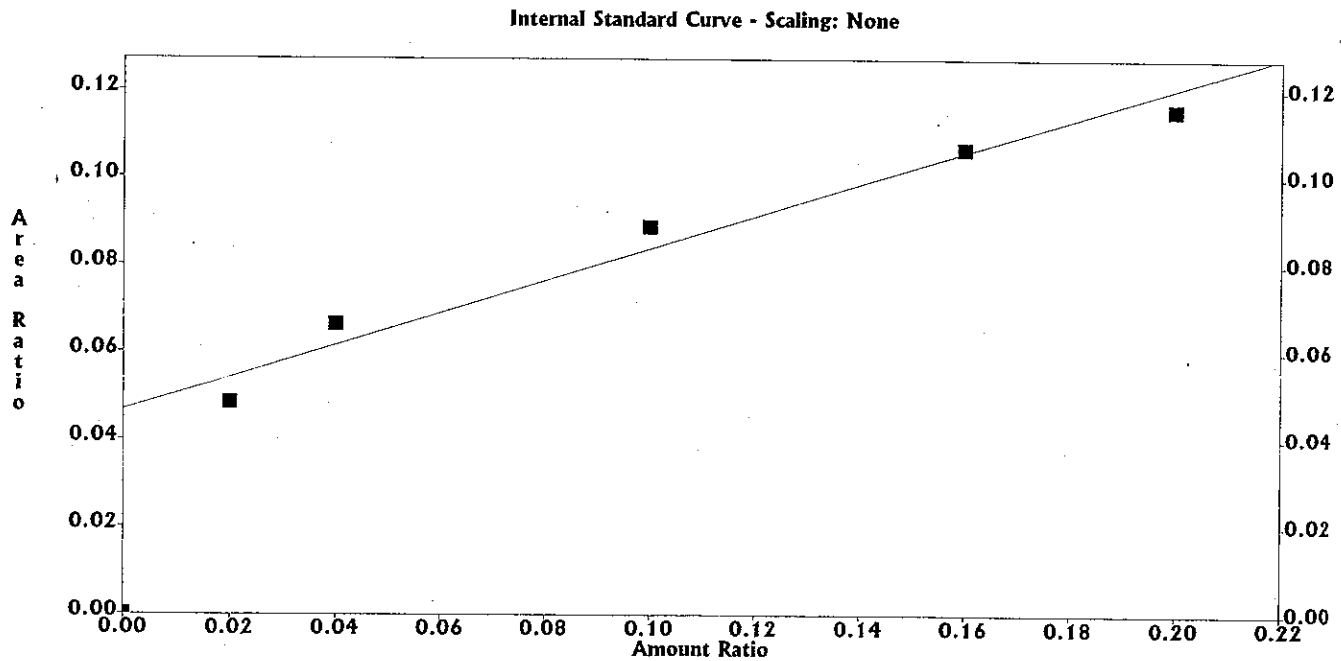
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0487	0.02	2.43	0.0487							0
2	0.0665	0.04	1.66	0.0665							0
3	0.0888	0.1	0.8878	0.0888							0
4	0.1066	0.16	0.6664	0.1066							0
5	0.1158	0.2	0.5792	0.1158							0

Calib Flag: Replace

Average RF: 1.24588
RF StdDev: 0.789639
RF %RSD: 63.380

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.71227 x Area - 0.127295
R^2 = 0.967761



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 7 MCPA(PPm)

* - Replicate Not Used

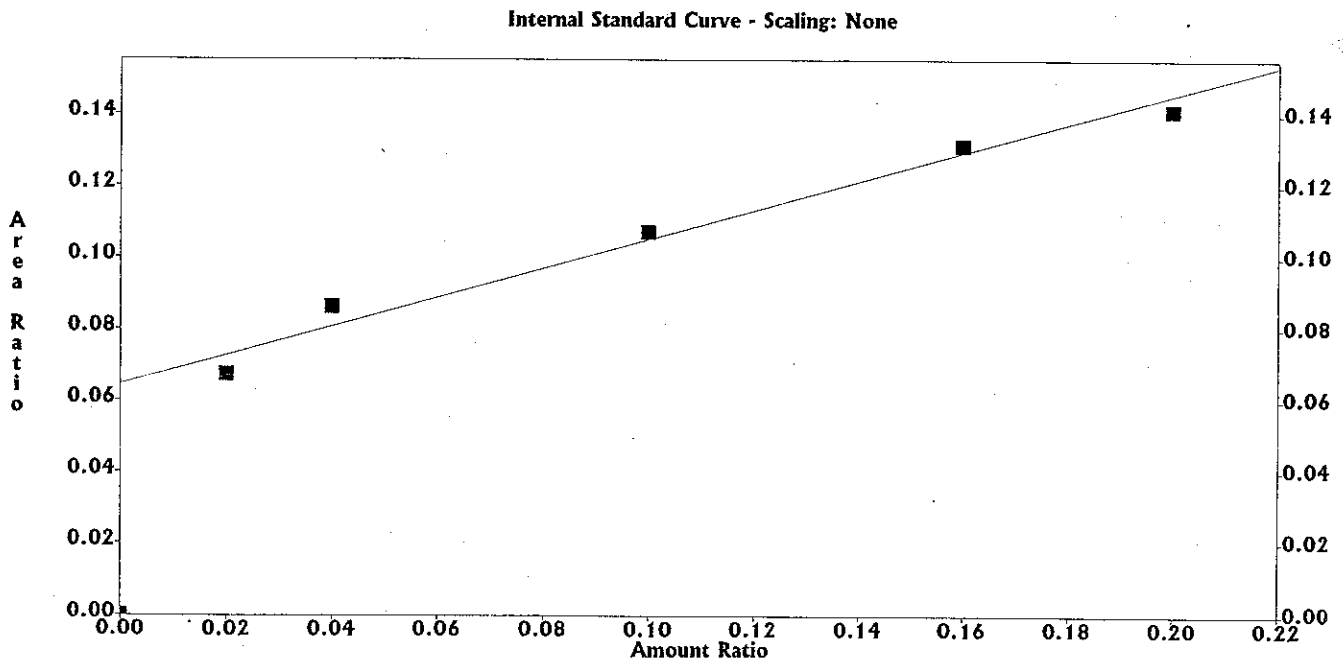
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0674	0.02	3.37	0.0674							0
2	0.0864	0.04	2.16	0.0864							0
3	0.1072	0.1	1.07	0.1072							0
4	0.1313	0.16	0.8207	0.1313							0
5	0.1414	0.2	0.7071	0.1414							0

Calib Flag: Replace

Average RF: 1.6255
RF StdDev: 1.13165
RF %RSD: 69.619

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.46987 x Area - 0.159601
R^2 = 0.978047



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 8 Dichloroprop

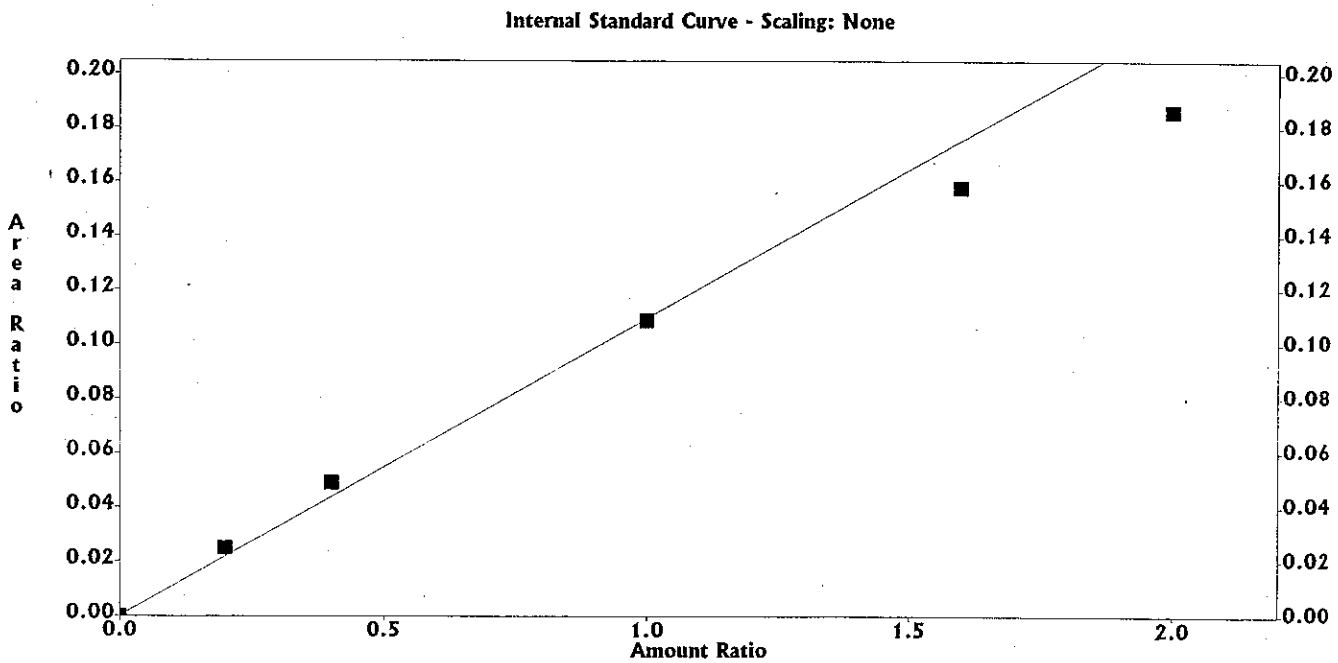
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0249	0.2	0.1247	0.0249							0
2	0.0491	0.4	0.1227	0.0491							0
3	0.1088	1	0.1088	0.1088							0
4	0.1579	1.6	0.09867	0.1579							0
5	0.1862	2	0.09311	0.1862							0

Calib Flag: Replace

Average RF: 0.109593
RF StdDev: 0.01406
RF %RSD: 12.829

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.109593



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 9 2,4-D (m)

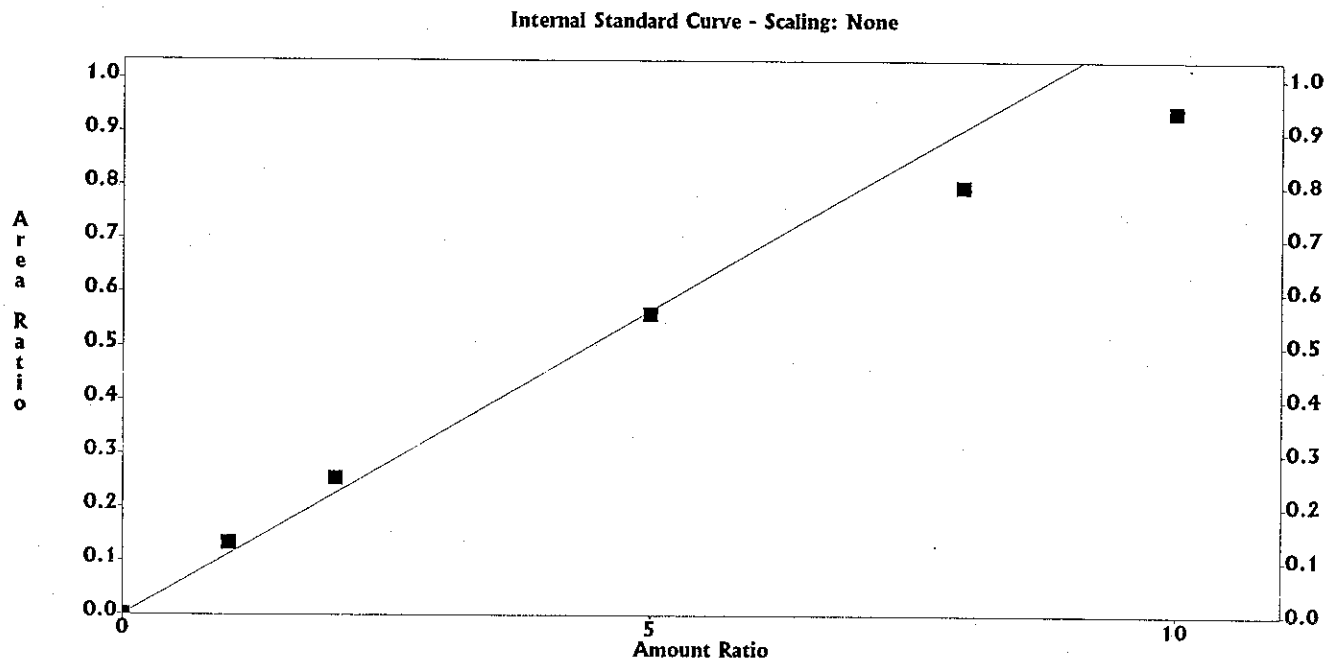
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1340	1	0.134	0.1340							0
2	0.2543	2	0.1272	0.2543							0
3	0.5600	5	0.112	0.5600							0
4	0.7984	8	0.0998	0.7984							0
5	0.9403	10	0.09403	0.9403							0

Calib Flag: Replace

Average RF: 0.113391
RF StdDev: 0.0171322
RF %RSD: 15.109

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.113391



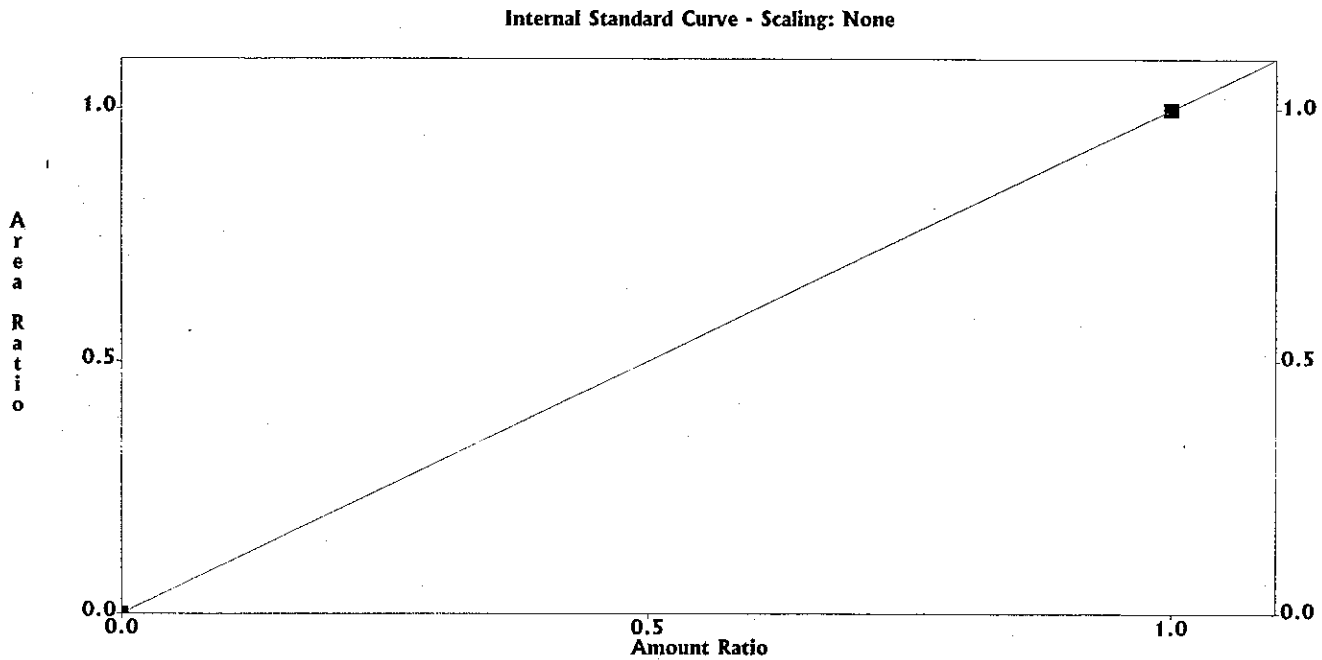
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 10 DBOB (IS)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 11 Pentachlorphenol

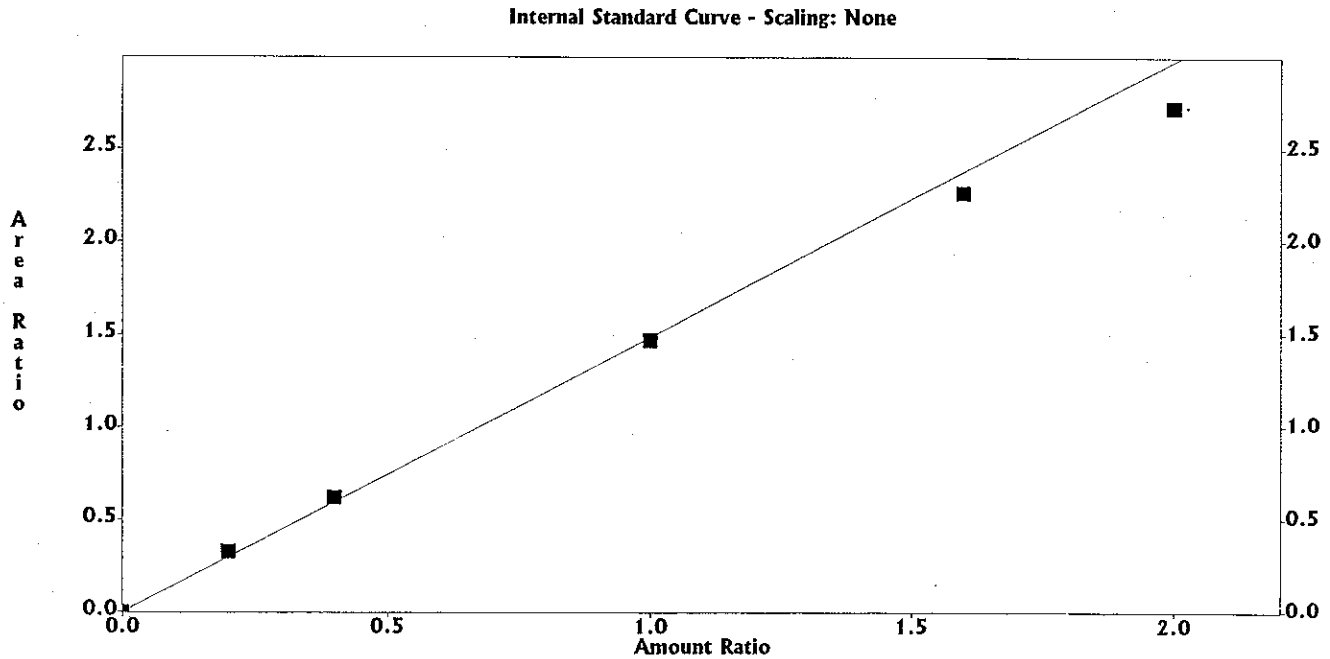
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3284	0.2	1.64	0.3284							0
2	0.6196	0.4	1.55	0.6196							0
3	1.4713	1	1.47	1.4713							0
4	2.2643	1.6	1.42	2.2643							0
5	2.7260	2	1.36	2.7260							0

Calib Flag: Replace

Average RF: 1.48813
RF StdDev: 0.110303
RF %RSD: 7.412

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.48813



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 12 Silvex (m)

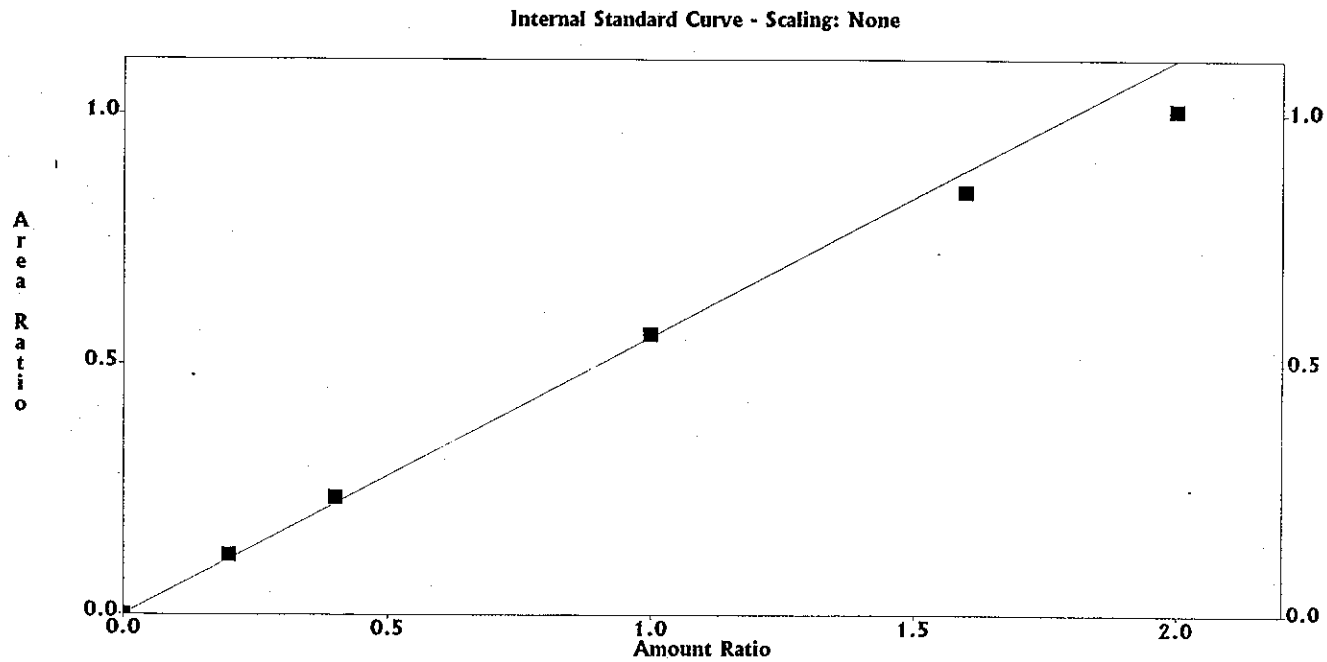
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1193	0.2	0.5965	0.1193							0
2	0.2342	0.4	0.5856	0.2342							0
3	0.5609	1	0.5609	0.5609							0
4	0.8451	1.6	0.5282	0.8451							0
5	1.0094	2	0.5047	1.0094							0

Calib Flag: Replace

Average RF: 0.555162
RF StdDev: 0.0385256
RF %RSD: 6.940

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.555162



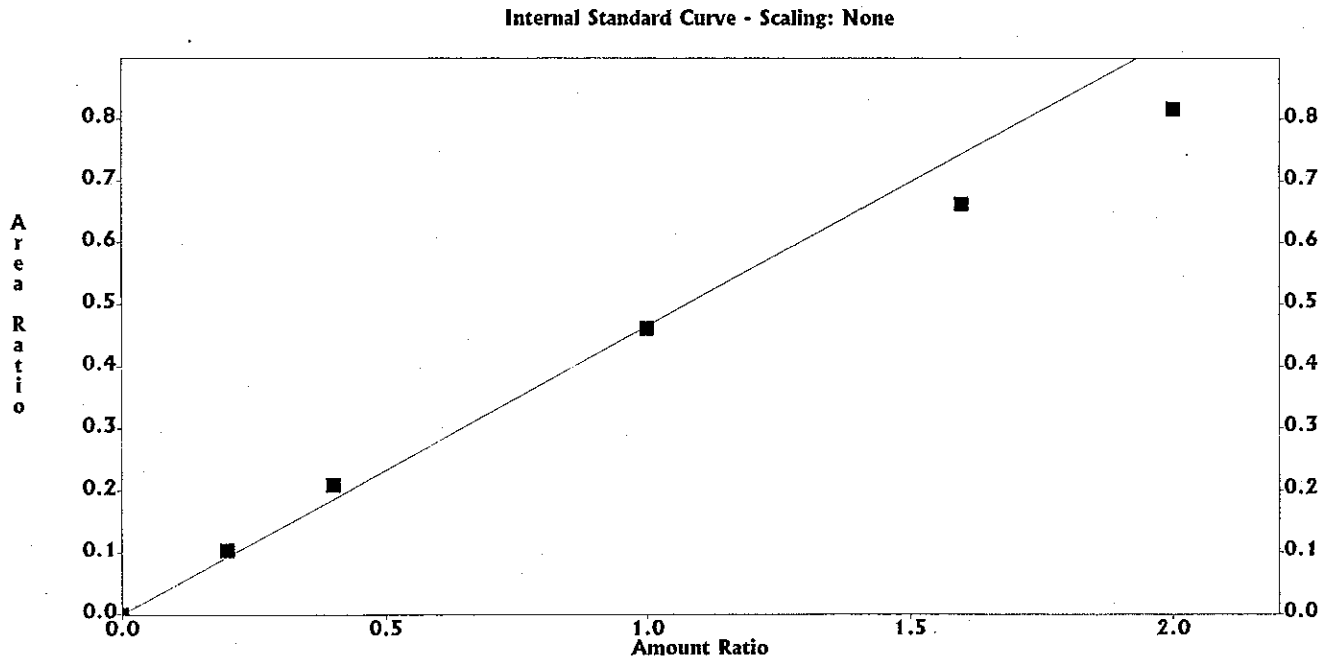
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 13 Chloramben

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1038	0.2	0.5192	0.1038							0
2	0.2091	0.4	0.5227	0.2091							0
3	0.4616	1	0.4616	0.4616							0
4	0.6628	1.6	0.4143	0.6628							0
5	0.8170	2	0.4085	0.8170							0

Calib Flag: Replace

Average RF: 0.465274
RF StdDev: 0.0548785
RF %RSD: 11.795

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.465274



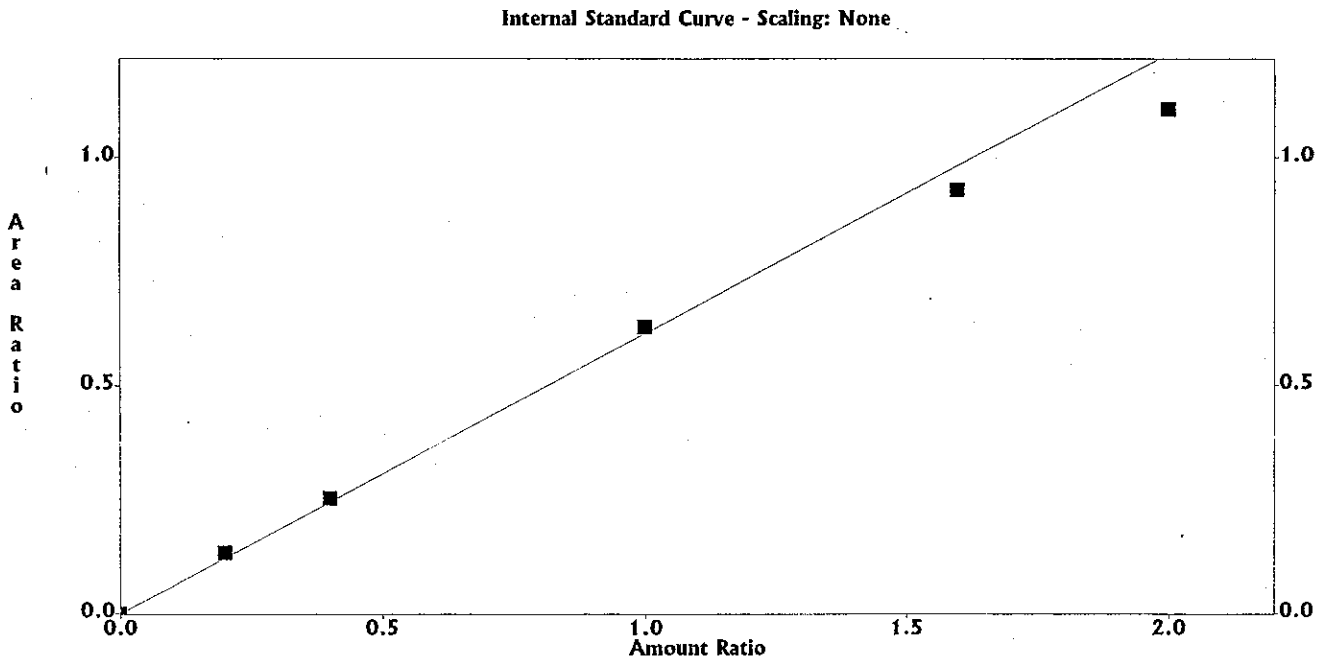
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 14 2,4,5-T (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1347	0.2	0.6734	0.1347							0
2	0.2537	0.4	0.6342	0.2537							0
3	0.6290	1	0.629	0.6290							0
4	0.9290	1.6	0.5806	0.9290							0
5	1.1077	2	0.5538	1.1077							0

Calib Flag: Replace

Average RF: 0.614194
RF StdDev: 0.0471523
RF %RSD: 7.677

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.614194



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 15 Dinoseb

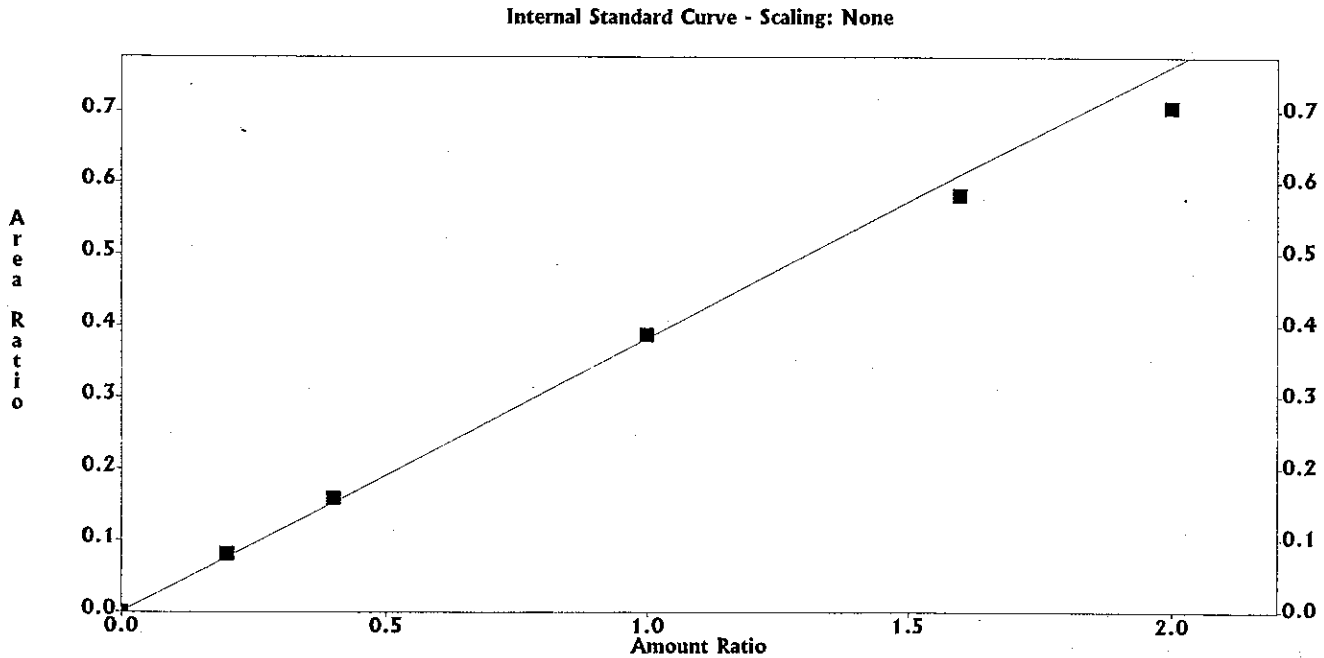
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0816	0.2	0.4081	0.0816							0
2	0.1590	0.4	0.3974	0.1590							0
3	0.3869	1	0.3869	0.3869							0
4	0.5826	1.6	0.3641	0.5826							0
5	0.7059	2	0.353	0.7059							0

Calib Flag: Replace

Average RF: 0.381891
RF StdDev: 0.0229416
RF %RSD: 6.007

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.381891



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 16 2,4-DB

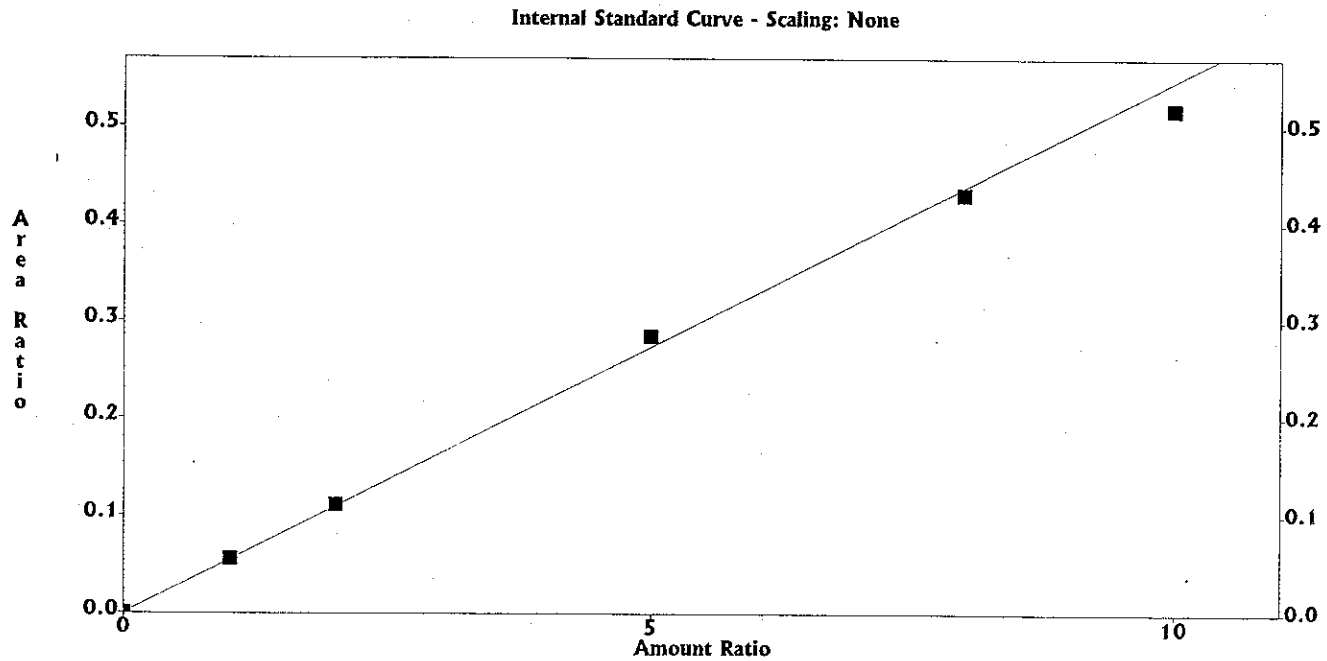
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0556	1	0.05563	0.0556							0
2	0.1111	2	0.05553	0.1111							0
3	0.2851	5	0.05702	0.2851							0
4	0.4306	8	0.05382	0.4306							0
5	0.5185	10	0.05185	0.5185							0

Calib Flag: Replace

Average RF: 0.0547703
RF StdDev: 0.00198819
RF %RSD: 3.630

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0547703



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 17 Bentazon

* - Replicate Not Used

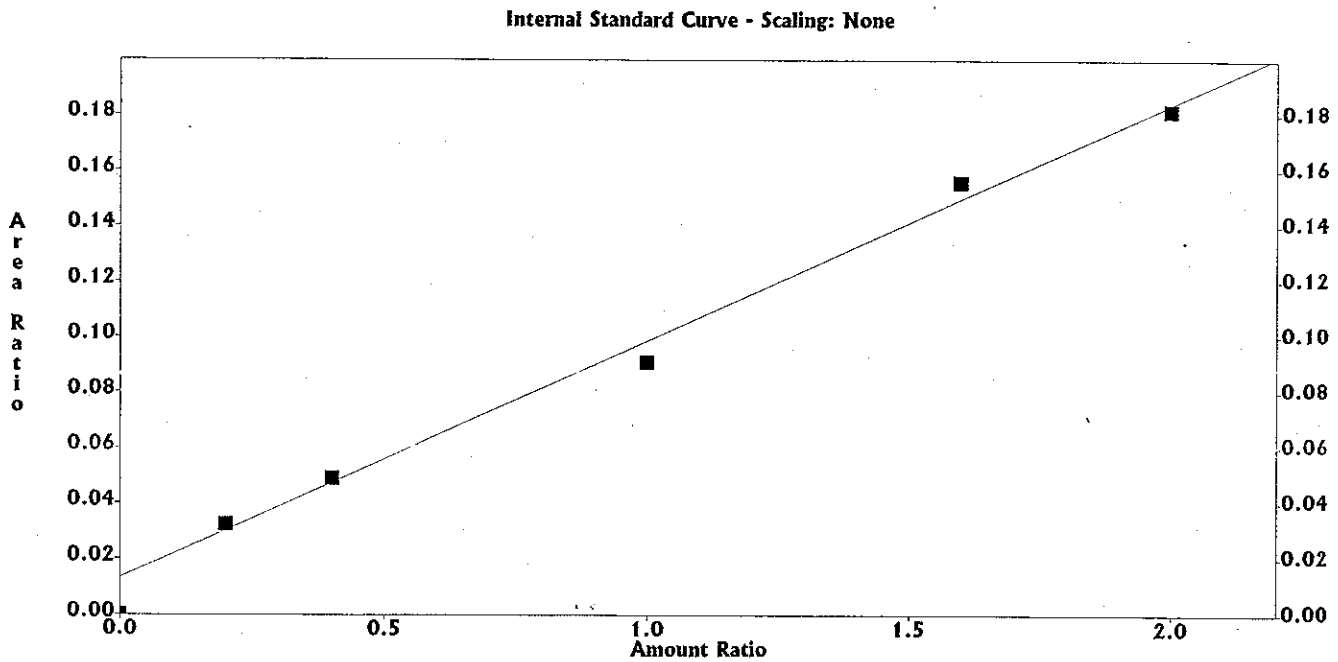
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0325	0.2	0.1626	0.0325							0
2	0.0491	0.4	0.1227	0.0491							0
3	0.0909	1	0.09095	0.0909							0
4	0.1559	1.6	0.09743	0.1559							0
5	0.1818	2	0.09089	0.1818							0

Calib Flag: Replace

Average RF: 0.112912
RF StdDev: 0.0307118
RF %RSD: 27.200

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 11.7184 x Area - 0.155776
R^2 = 0.993704



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 18 Picloram

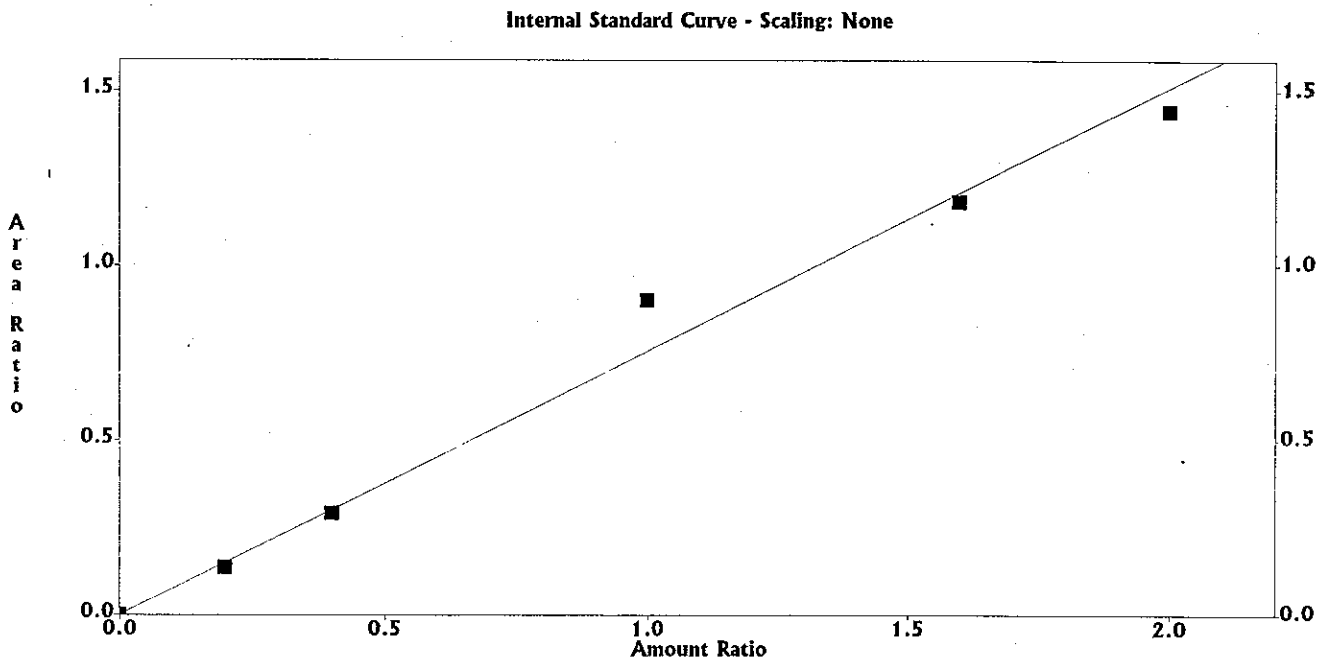
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1370	0.2	0.6848	0.1370							0
2	0.2916	0.4	0.729	0.2916							0
3	0.9031	1	0.9031	0.9031							0
4	1.1824	1.6	0.739	1.1824							0
5	1.4445	2	0.7223	1.4445							0

Calib Flag: Replace

Average RF: 0.755629
RF StdDev: 0.084943
RF %RSD: 11.241

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.755629



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 19 DCPA

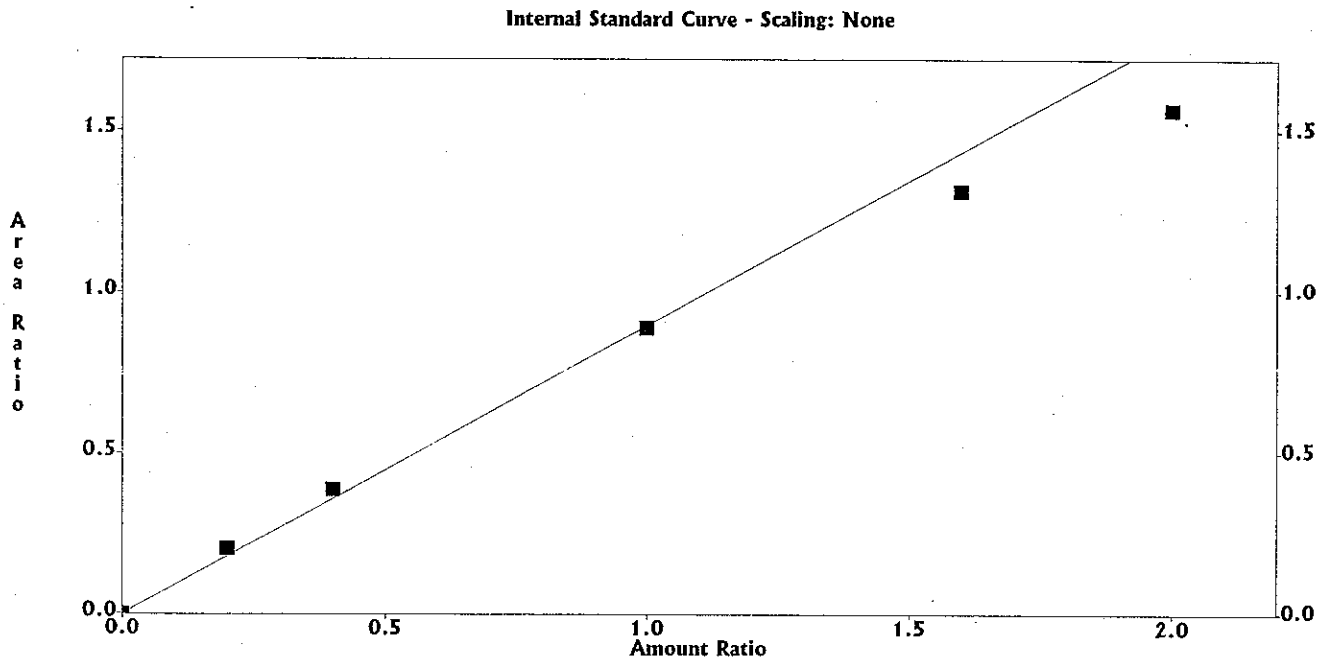
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.2038	0.2	1.02	0.2038							0
2	0.3883	0.4	0.9708	0.3883							0
3	0.8907	1	0.8907	0.8907							0
4	1.3153	1.6	0.8221	1.3153							0
5	1.5676	2	0.7838	1.5676							0

Calib Flag: Replace

Average RF: 0.897251
RF StdDev: 0.0984744
RF %RSD: 10.975

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.897251



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 20 Acifluorfen

* - Replicate Not Used

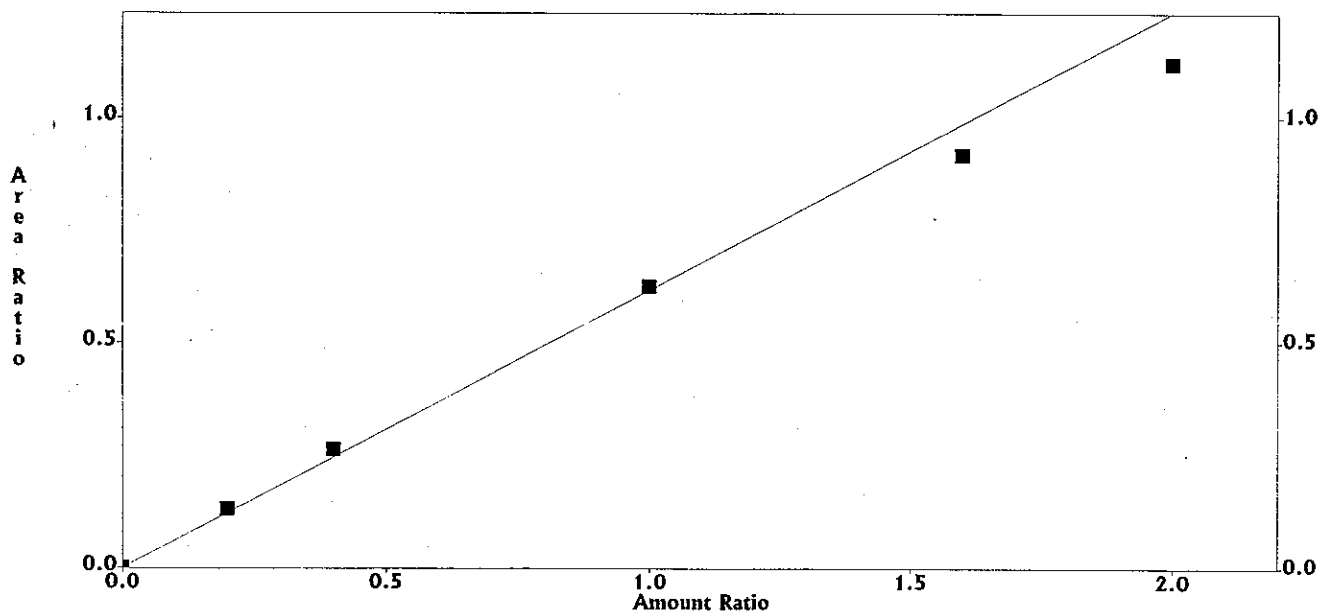
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1327	0.2	0.6636	0.1327							0
2	0.2646	0.4	0.6614	0.2646							0
3	0.6259	1	0.6259	0.6259							0
4	0.9184	1.6	0.574	0.9184							0
5	1.1207	2	0.5603	1.1207							0

Calib Flag: Replace

Average RF: 0.617056
RF StdDev: 0.048189
RF %RSD: 7.810

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.617056

Internal Standard Curve - Scaling: None



4132

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 1 Dalapon

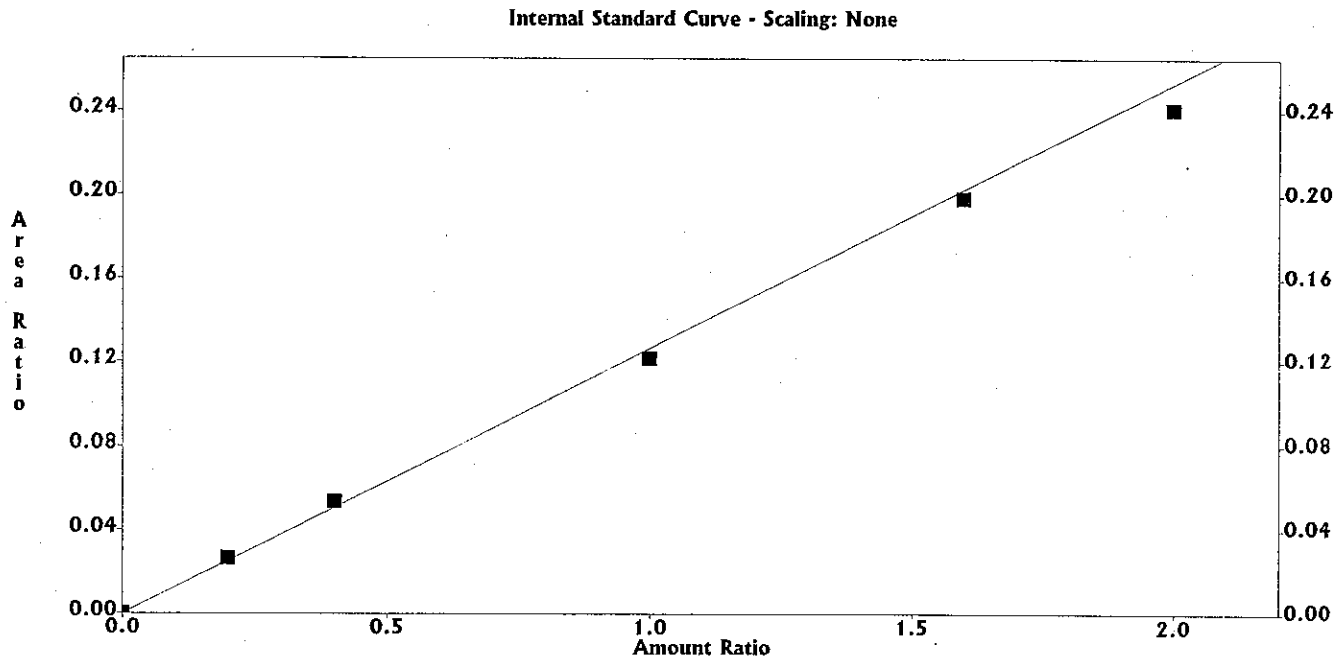
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0266	0.2	0.133	0.0266							0
2	0.0537	0.4	0.1341	0.0537							0
3	0.1219	1	0.1219	0.1219							0
4	0.1985	1.6	0.1241	0.1985							0
5	0.2413	2	0.1207	0.2413							0

Calib Flag: Replace

Average RF: 0.126755
RF StdDev: 0.00633203
RF %RSD: 4.995

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.126755



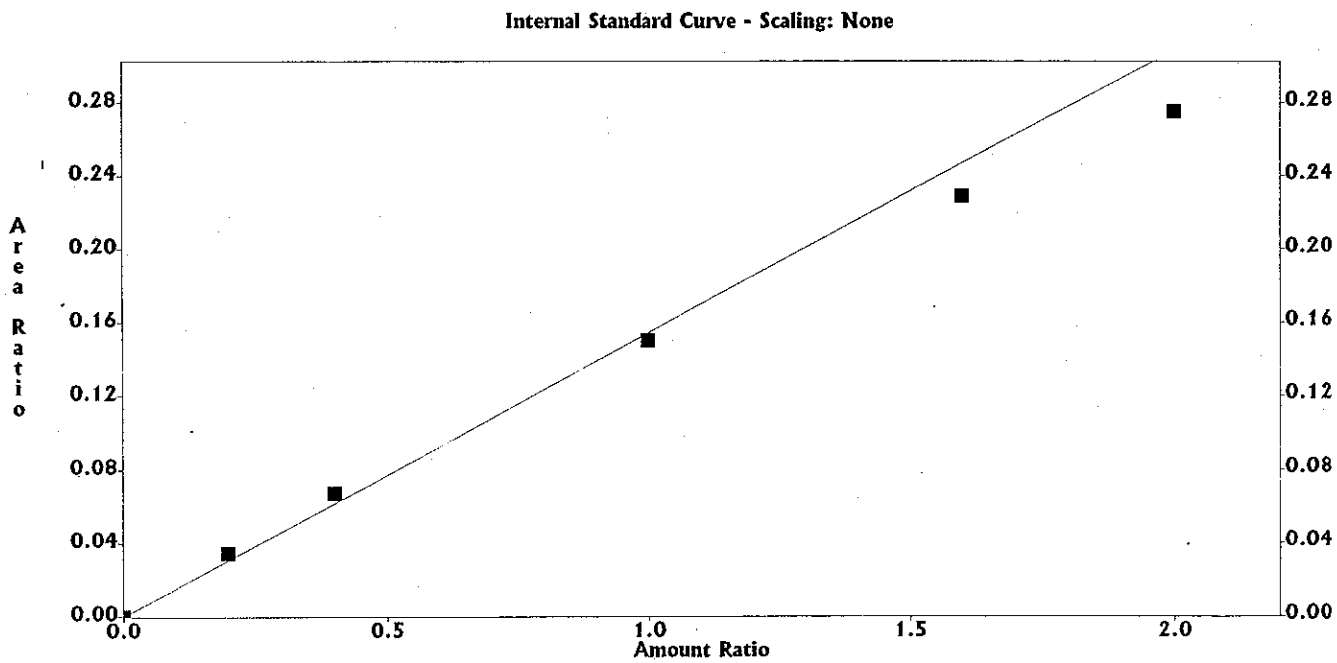
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0346	0.2	0.1729	0.0346							0
2	0.0672	0.4	0.1681	0.0672							0
3	0.1503	1	0.1503	0.1503							0
4	0.2291	1.6	0.1432	0.2291							0
5	0.2756	2	0.1378	0.2756							0

Calib Flag: Replace

Average RF: 0.154483
RF StdDev: 0.0154064
RF %RSD: 9.973

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.154483



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 3 4-Nitrophenol

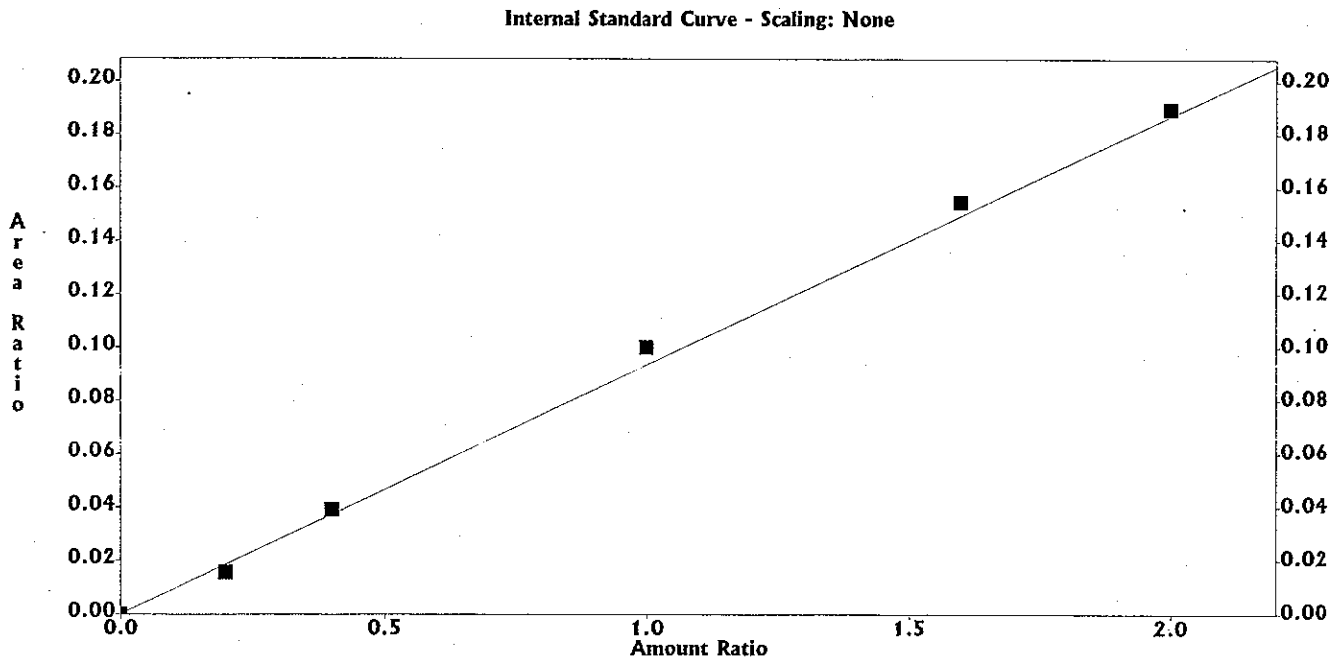
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0157	0.2	0.07825	0.0157							0
2	0.0391	0.4	0.09778	0.0391							0
3	0.1001	1	0.1001	0.1001							0
4	0.1547	1.6	0.09671	0.1547							0
5	0.1897	2	0.09484	0.1897							0

Calib Flag: Replace

Average RF: 0.0935353
RF StdDev: 0.00875176
RF %RSD: 9.357

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0935353



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 4 DCAA (surr)

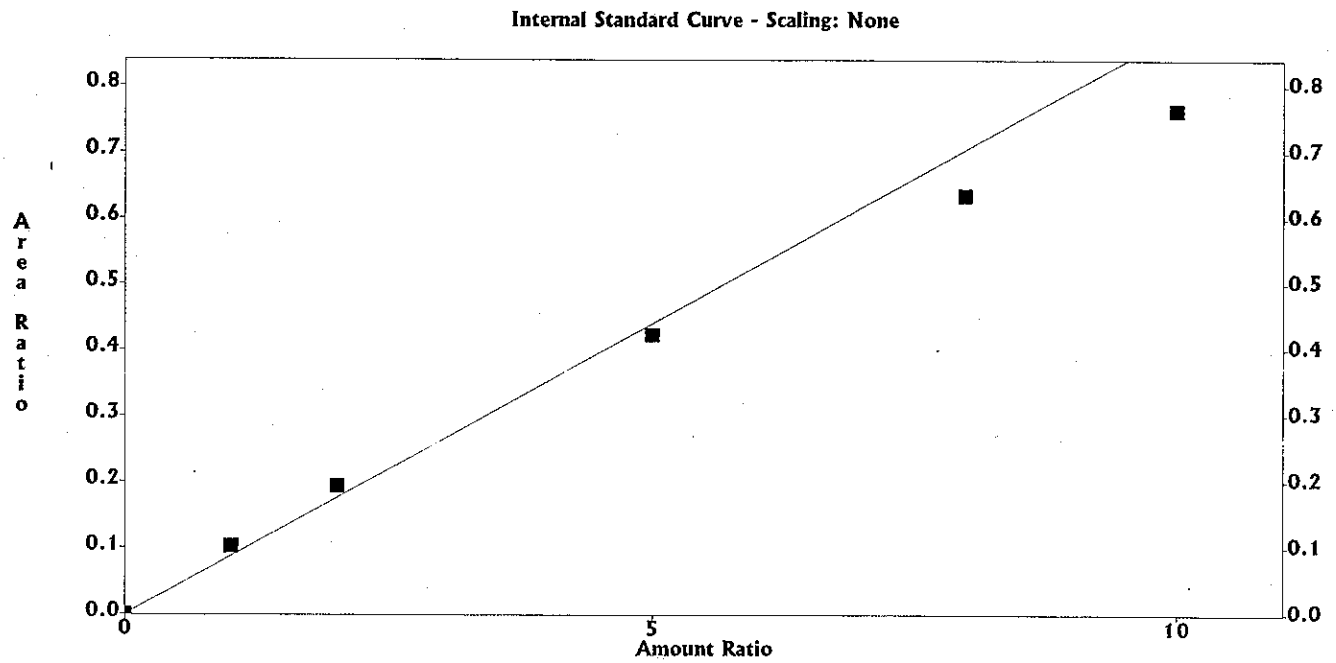
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1029	1	0.1029	0.1029							0
2	0.1942	2	0.0971	0.1942							0
3	0.4231	5	0.08462	0.4231							0
4	0.6352	8	0.0794	0.6352							0
5	0.7639	10	0.07639	0.7639							0

Calib Flag: Replace

Average RF: 0.0880927
RF StdDev: 0.0114711
RF %RSD: 13.022

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0880927



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 5 Dicamba

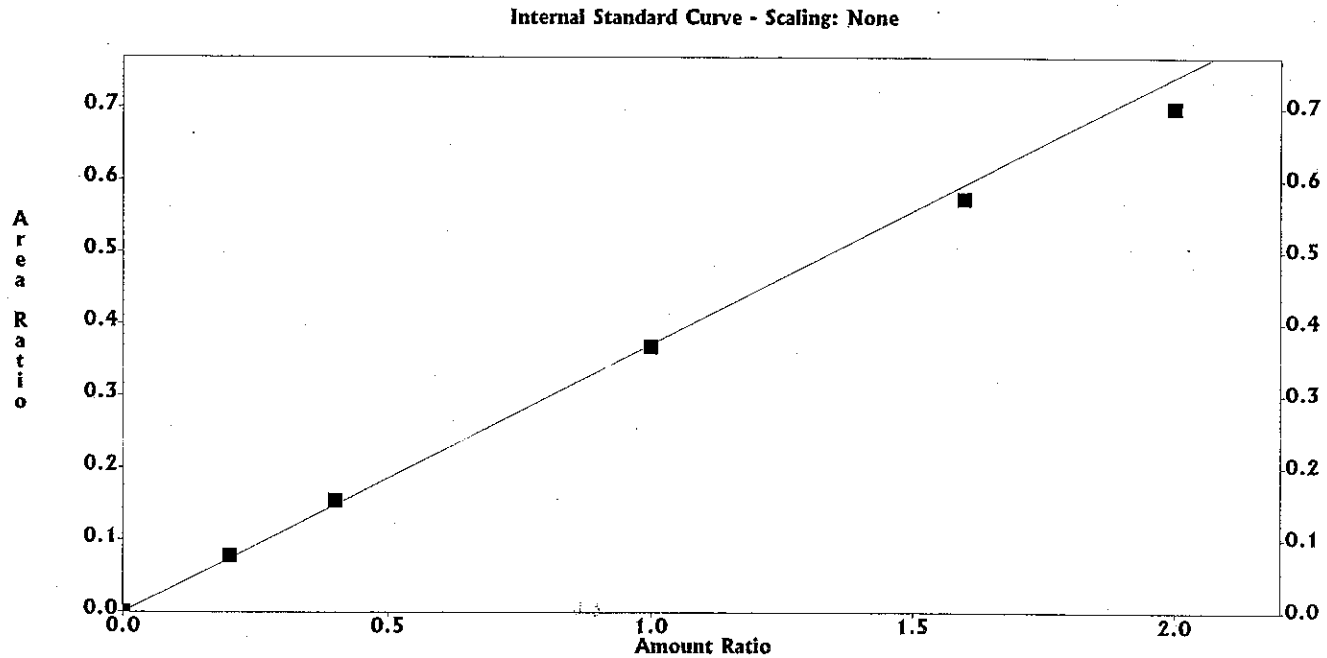
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0786	0.2	0.3931	0.0786							0
2	0.1549	0.4	0.3872	0.1549							0
3	0.3684	1	0.3684	0.3684							0
4	0.5744	1.6	0.359	0.5744							0
5	0.7006	2	0.3503	0.7006							0

Calib Flag: Replace

Average RF: 0.371609
RF StdDev: 0.0182154
RF %RSD: 4.902

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.371609



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 6 MCPP (ppm)

* - Replicate Not Used

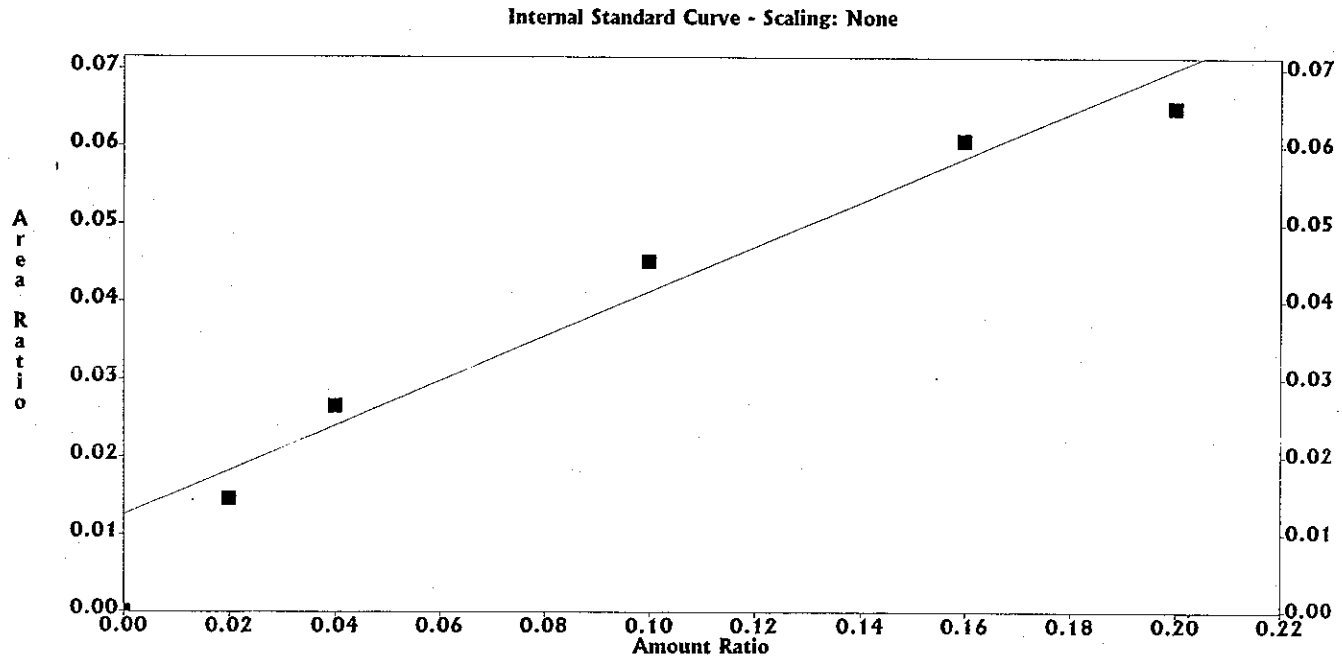
Level	Area Ratio	Amount Ratio	RF	Rep Area Ratio 1	Rep Area Ratio 2	Rep Area Ratio 3	Rep Area Ratio 4	Rep Area Ratio 5	Replic STD	Replic %RSD	Old Area Ratio
1	0.0147	0.02	0.7329	0.0147							0
2	0.0266	0.04	0.6648	0.0266							0
3	0.0452	0.1	0.4524	0.0452							0
4	0.0608	0.16	0.38	0.0608							0
5	0.0651	0.2	0.3253	0.0651							0

Calib Flag: Replace

Average RF: 0.511087
RF StdDev: 0.17887
RF %RSD: 34.998

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 3.47761 x Area - 0.0436959
R^2 = 0.966498



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 7 DBOB (IS)

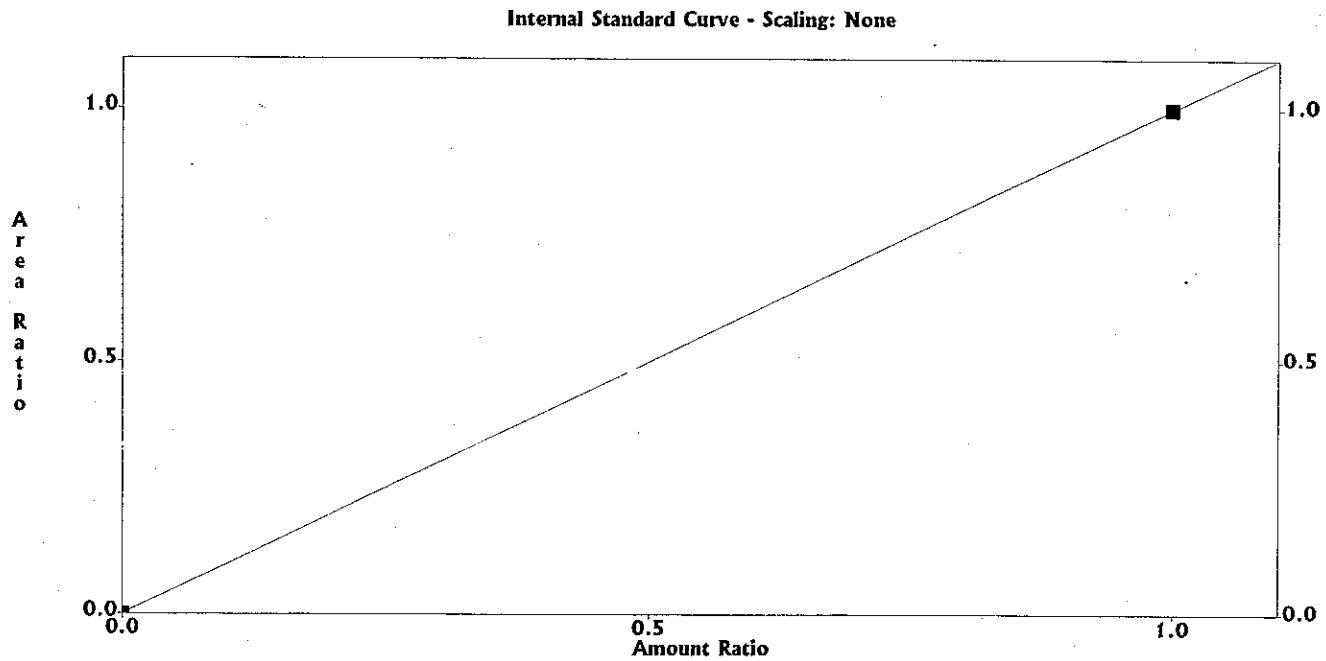
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 8 MCPA (ppm)

* - Replicate Not Used

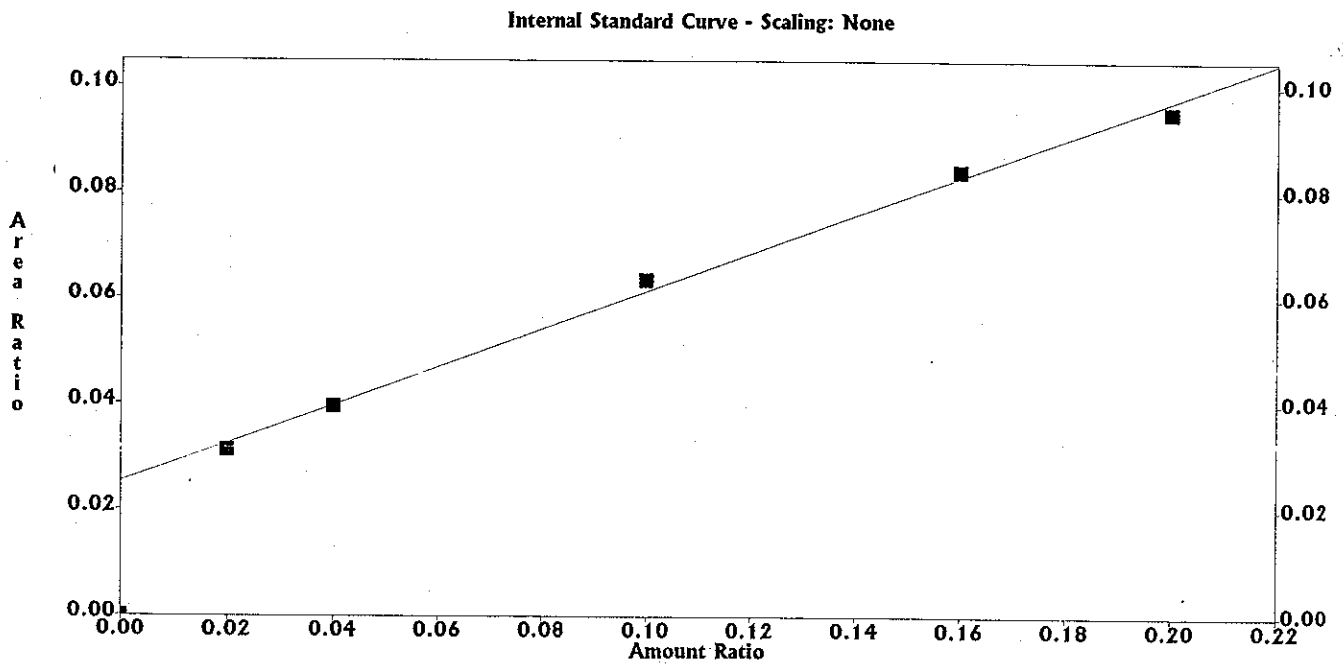
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0313	0.02	1.57	0.0313							0
2	0.0396	0.04	0.9902	0.0396							0
3	0.0635	0.1	0.6355	0.0635							0
4	0.0841	0.16	0.5258	0.0841							0
5	0.0954	0.2	0.4768	0.0954							0

Calib Flag: Replace

Average RF: 0.839008
RF StdDev: 0.453648
RF %RSD: 54.070

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.77463 x Area - 0.0702353
R^2 = 0.996153



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 9 Dichloroprop

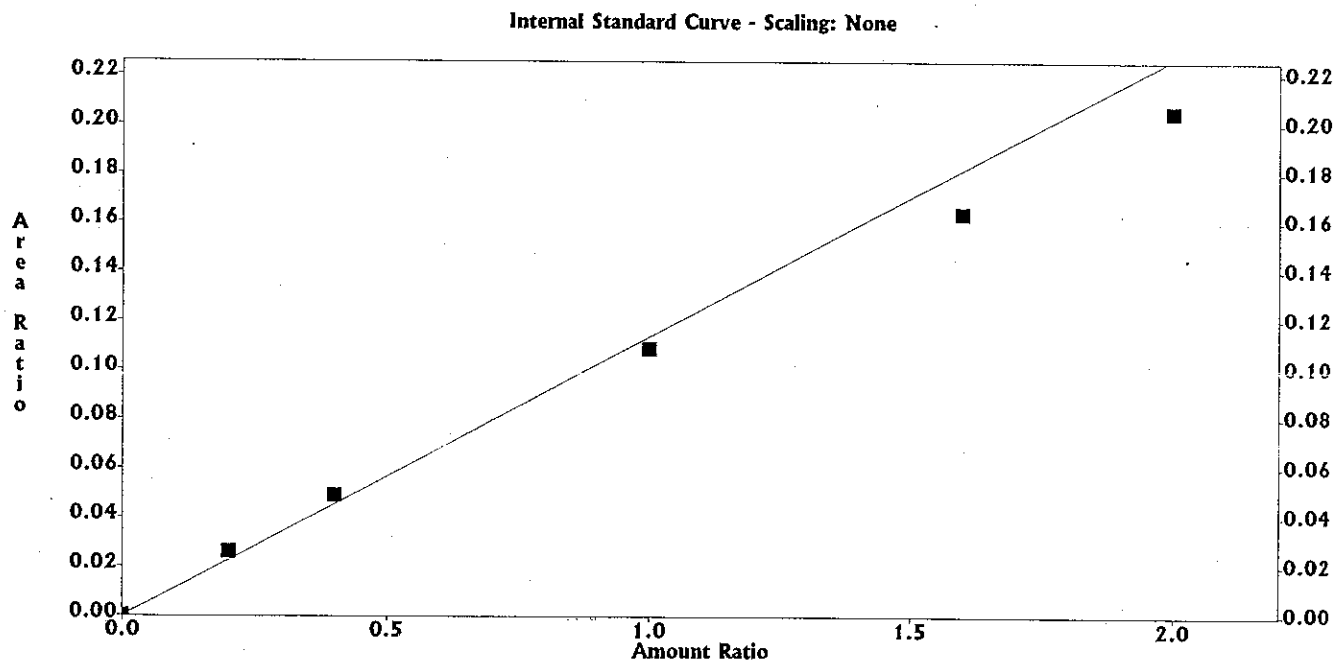
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.2	0.1315	0.0263							0
2	0.0491	0.4	0.1228	0.0491							0
3	0.1085	1	0.1085	0.1085							0
4	0.1636	1.6	0.1023	0.1636							0
5	0.2052	2	0.1026	0.2052							0

Calib Flag: Replace

Average RF: 0.113524
RF StdDev: 0.0130642
RF %RSD: 11.508

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.113524



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 10 2,4-D (m)

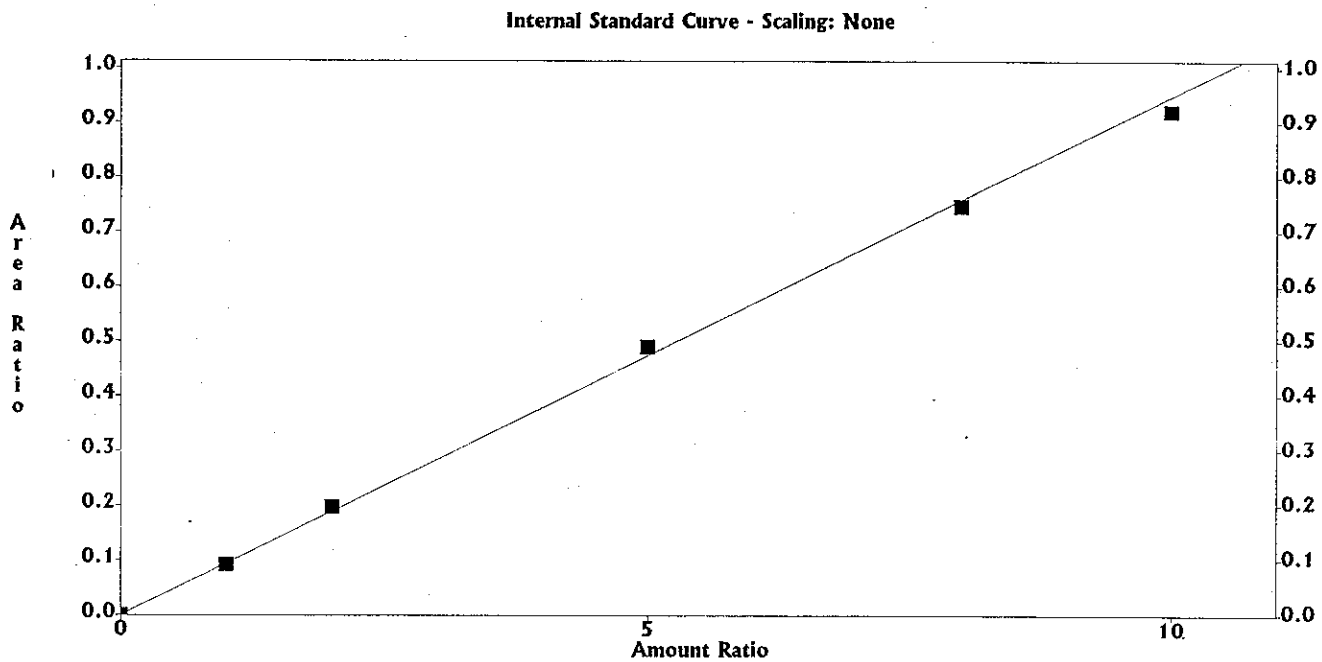
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0922	1	0.09218	0.0922							0
2	0.1978	2	0.09891	0.1978							0
3	0.4906	5	0.09811	0.4906							0
4	0.7474	8	0.09342	0.7474							0
5	0.9221	10	0.09221	0.9221							0

Calib Flag: Replace

Average RF: 0.0949667
RF StdDev: 0.00328904
RF %RSD: 3.463

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0949667



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 11 Pentachlorphenol

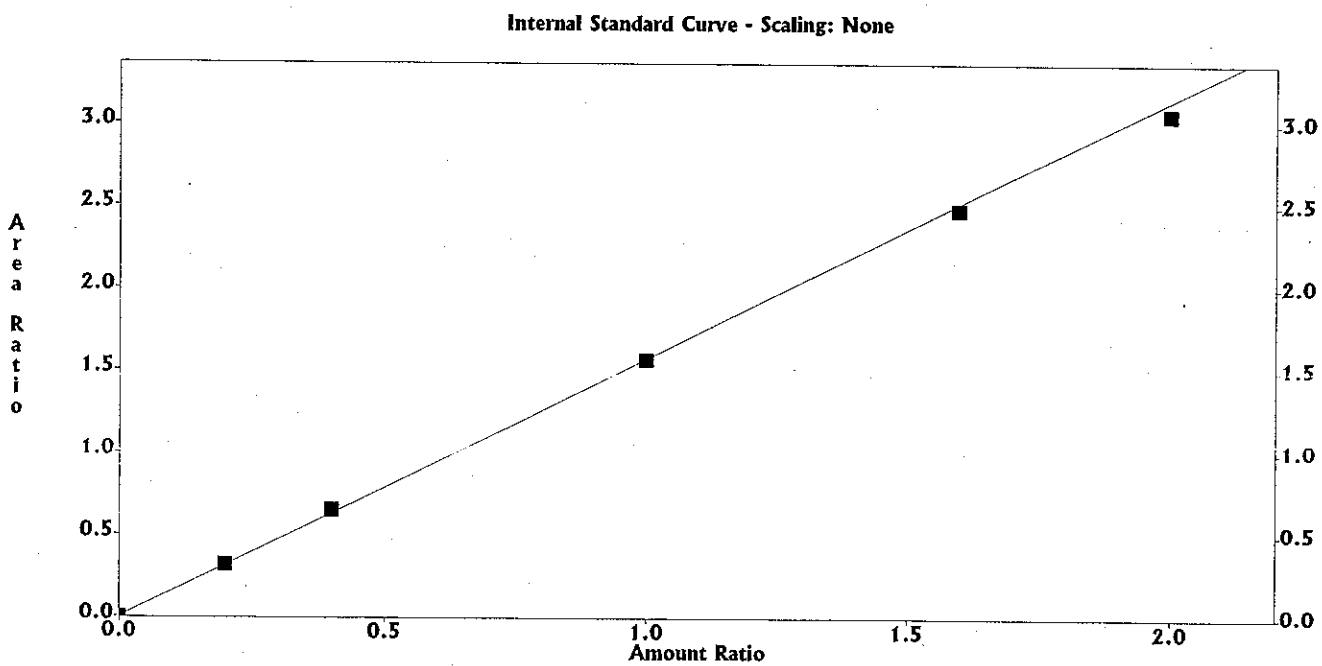
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3178	0.2	1.59	0.3178							0
2	0.6516	0.4	1.63	0.6516							0
3	1.5654	1	1.57	1.5654							0
4	2.4791	1.6	1.55	2.4791							0
5	3.0630	2	1.53	3.0630							0

Calib Flag: Replace

Average RF: 1.57289
RF StdDev: 0.037824
RF %RSD: 2.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.57289



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 12 Silvex (m)

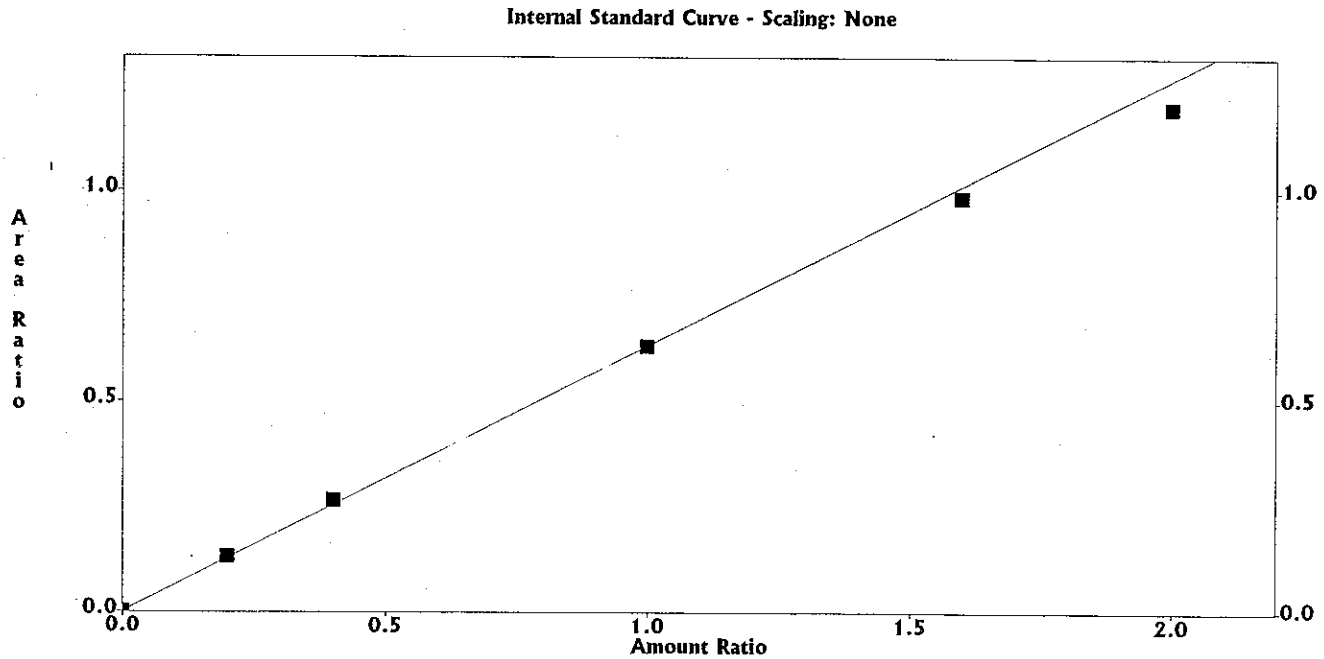
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1311	0.2	0.6555	0.1311							0
2	0.2647	0.4	0.6617	0.2647							0
3	0.6323	1	0.6323	0.6323							0
4	0.9858	1.6	0.6161	0.9858							0
5	1.1983	2	0.5991	1.1983							0

Calib Flag: Replace

Average RF: 0.632949
RF StdDev: 0.0262769
RF %RSD: 4.152

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.632949



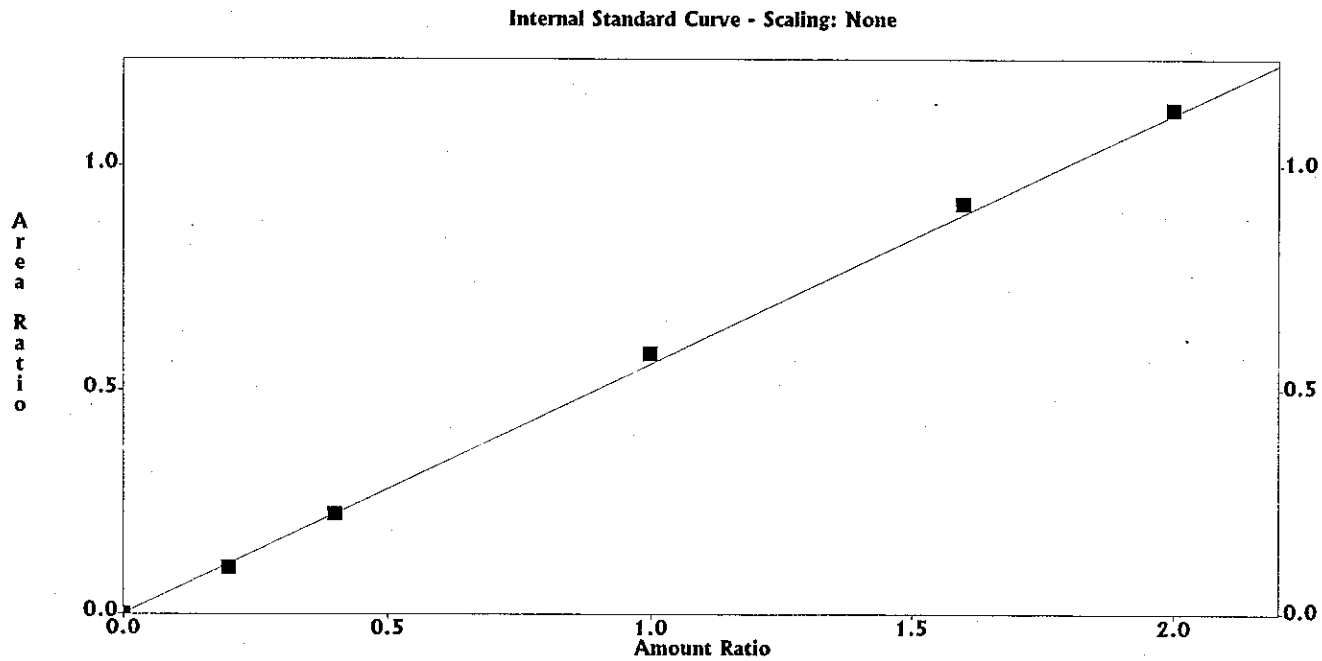
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 13 2,4,5-T (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1028	0.2	0.5141	0.1028							0
2	0.2225	0.4	0.5562	0.2225							0
3	0.5813	1	0.5813	0.5813							0
4	0.9162	1.6	0.5727	0.9162							0
5	1.1270	2	0.5635	1.1270							0

Calib Flag: Replace

Average RF: 0.557553
RF StdDev: 0.0260813
RF %RSD: 4.678

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.557553



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 14 Dinoseb

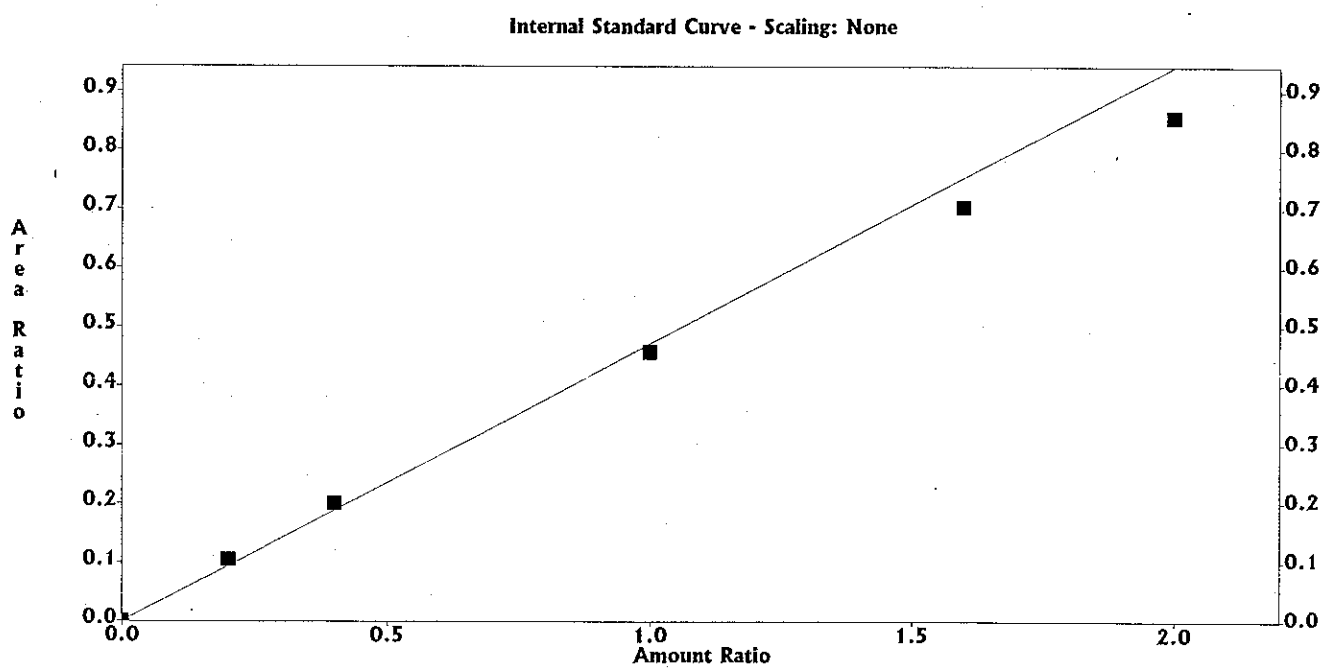
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1055	0.2	0.5275	0.1055							0
2	0.2010	0.4	0.5026	0.2010							0
3	0.4576	1	0.4576	0.4576							0
4	0.7041	1.6	0.4401	0.7041							0
5	0.8576	2	0.4288	0.8576							0

Calib Flag: Replace

Average RF: 0.471303
RF StdDev: 0.0421481
RF %RSD: 8.943

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.471303



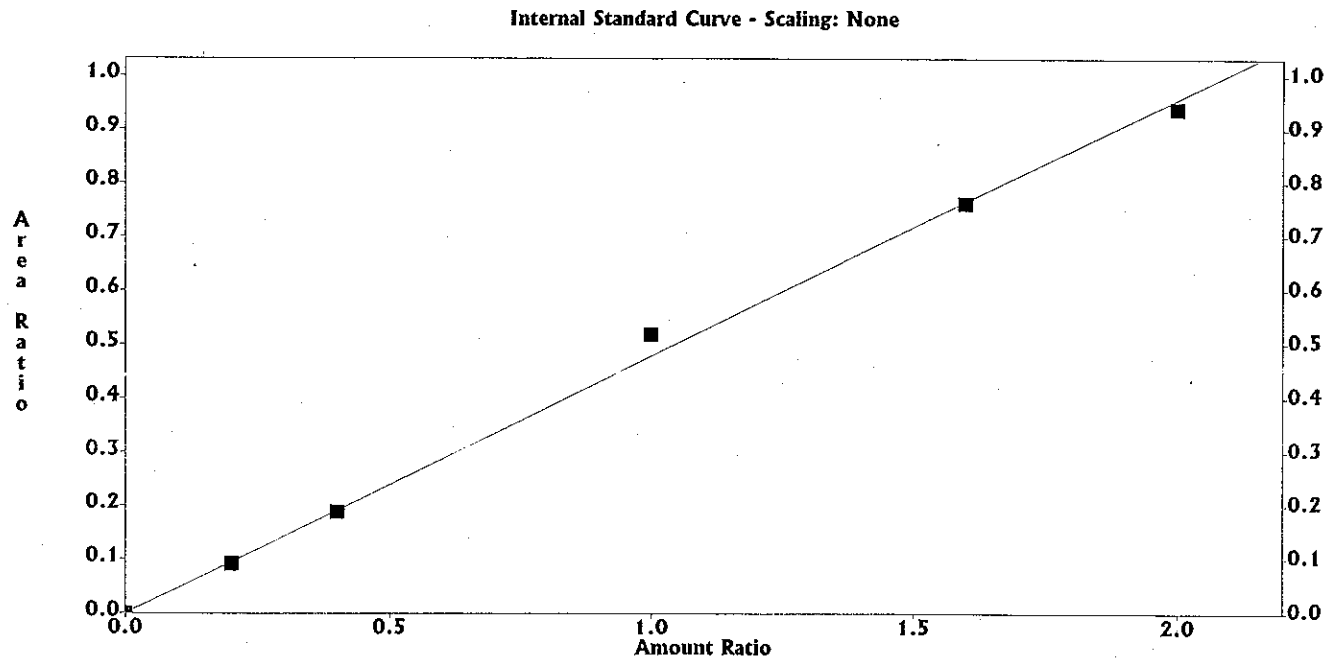
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 15 Chloramben

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0920	0.2	0.4599	0.0920							0
2	0.1879	0.4	0.4697	0.1879							0
3	0.5181	1	0.5181	0.5181							0
4	0.7622	1.6	0.4764	0.7622							0
5	0.9395	2	0.4698	0.9395							0

Calib Flag: Replace

Average RF: 0.478771
RF StdDev: 0.0227534
RF %RSD: 4.752

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.478771



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 16 2,4-DB

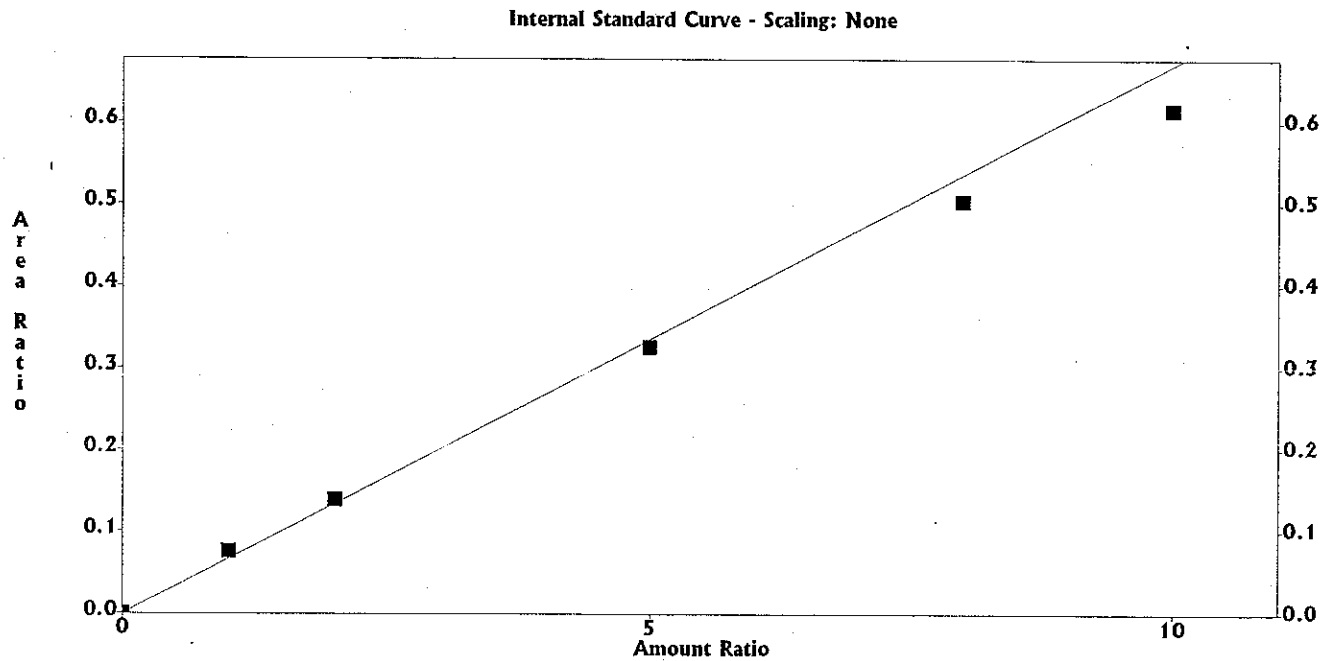
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD.	Replic %RSD	Old Area Ratio
1	0.0762	1	0.0762	0.0762							0
2	0.1389	2	0.06947	0.1389							0
3	0.3259	5	0.06519	0.3259							0
4	0.5038	8	0.06297	0.5038							0
5	0.6163	10	0.06163	0.6163							0

Calib Flag: Replace

Average RF: 0.0670914
RF StdDev: 0.00589656
RF %RSD: 8.789

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0670914



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 17 Bentazon

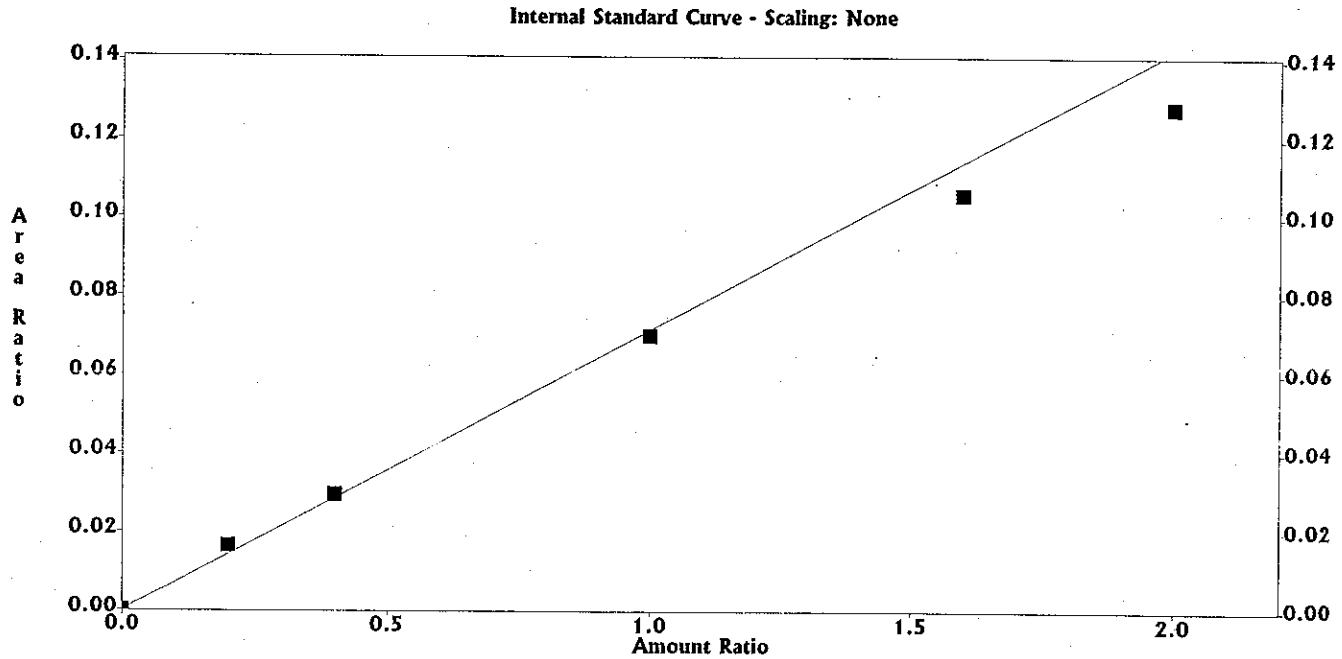
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0166	0.2	0.08284	0.0166							0
2	0.0296	0.4	0.0739	0.0296							0
3	0.0699	1	0.06991	0.0699							0
4	0.1059	1.6	0.0662	0.1059							0
5	0.1282	2	0.06409	0.1282							0

Calib Flag: Replace

Average RF: 0.071389
RF StdDev: 0.00741344
RF %RSD: 10.385

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.071389



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 18 DCPA

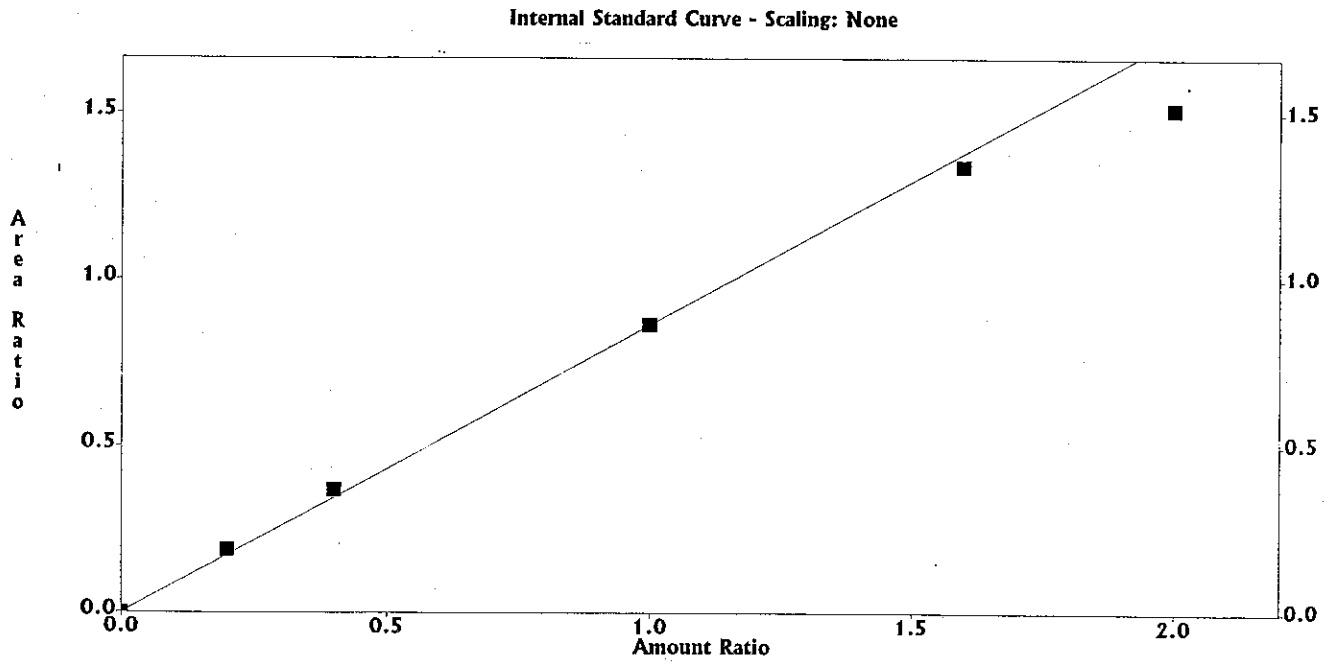
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1881	0.2	0.9406	0.1881							0
2	0.3687	0.4	0.9217	0.3687							0
3	0.8641	1	0.8641	0.8641							0
4	1.3426	1.6	0.8391	1.3426							0
5	1.5151	2	0.7575	1.5151							0

Calib Flag: Replace

Average RF: 0.864605
RF StdDev: 0.0727083
RF %RSD: 8.409

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.864605



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 19 Picloram

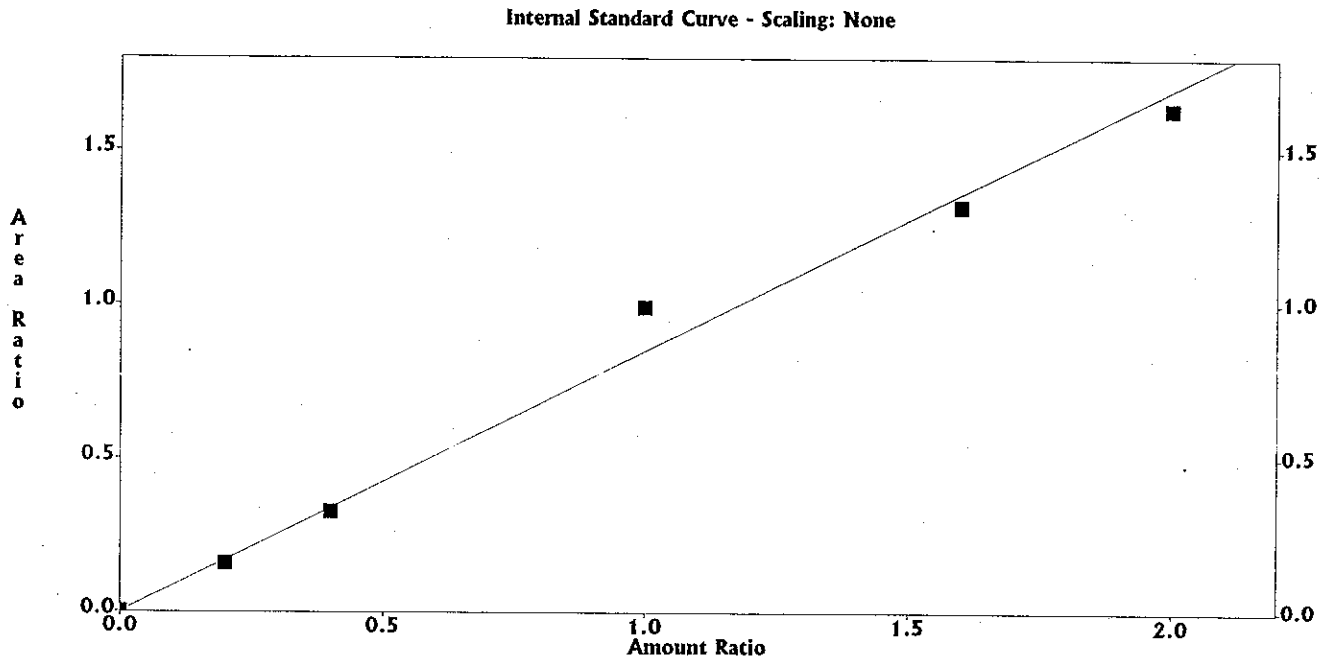
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1591	0.2	0.7956	0.1591							0
2	0.3282	0.4	0.8205	0.3282							0
3	0.9903	1	0.9903	0.9903							0
4	1.3181	1.6	0.8238	1.3181							0
5	1.6370	2	0.8185	1.6370							0

Calib Flag: Replace

Average RF: 0.849758
RF StdDev: 0.0793752
RF %RSD: 9.341

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.849758



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 20 Acifluorfen

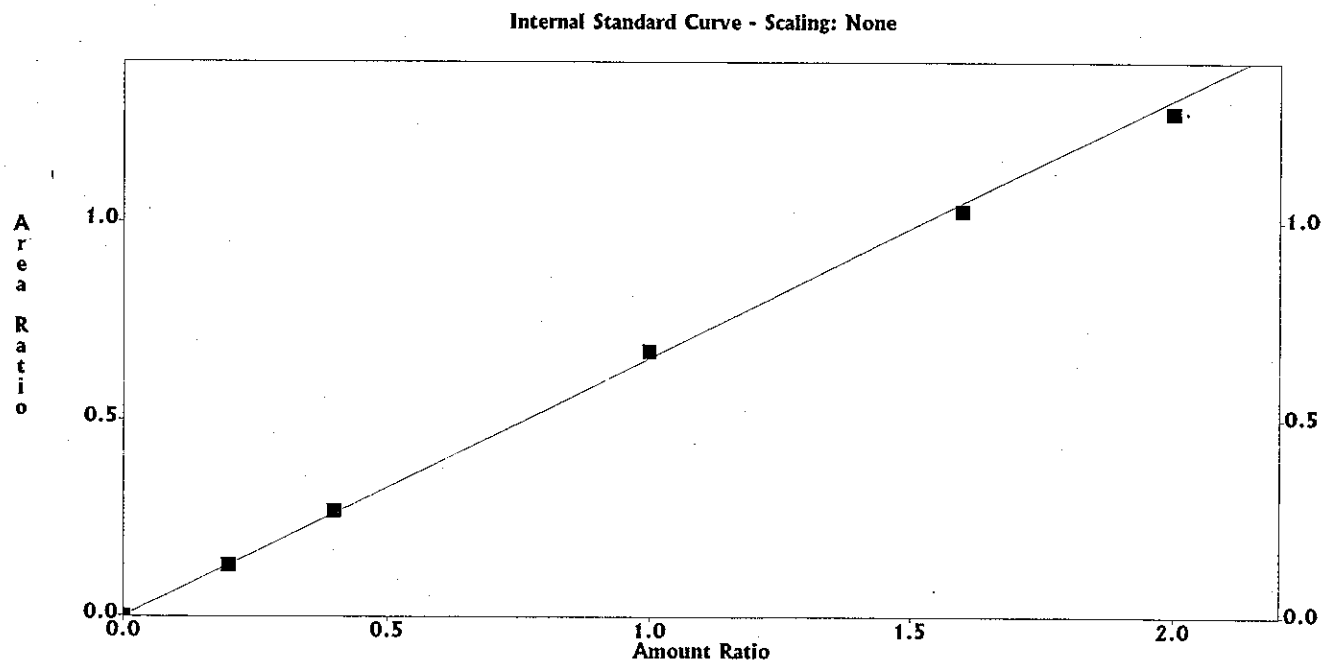
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1305	0.2	0.6523	0.1305							0
2	0.2690	0.4	0.6725	0.2690							0
3	0.6737	1	0.6737	0.6737							0
4	1.0284	1.6	0.6427	1.0284							0
5	1.2785	2	0.6393	1.2785							0

Calib Flag: Replace

Average RF: 0.656098
RF StdDev: 0.0162456
RF %RSD: 2.476

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.656098



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151t066.icv
ID: icv gc16938 -- Dec 09, 2004 01:31:38
Printed: Jan 12, 2005 15:45:49

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	252.675	1.070	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.466	3.014	15.000	Passed
3 4-Nitrophenol	250.000	242.835	2.866	15.000	Passed
4 DCAA(Surr)	1200.000	1204.784	0.399	15.000	Passed
5 Dicamba	250.000	243.501	2.599	15.000	Passed
6 MCPP(ppm)	25.000	31.003	24.012	15.000	Failed
7 MCPA(PPm)	25.000	28.951	15.802	15.000	Failed
8 Dichloroprop	250.000	246.642	1.343	15.000	Passed
9 2,4-D (m)	1250.000	1220.539	2.357	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	246.344	1.463	15.000	Passed
12 Silvex (m)	250.000	250.565	0.226	15.000	Passed
13 Chloramben	250.000	230.877	7.649	15.000	Passed
14 2,4,5-T (m)	250.000	251.722	0.689	15.000	Passed
15 Dinoseb	250.000	246.840	1.264	15.000	Passed
16 2,4-DB	1250.000	1280.498	2.440	15.000	Passed
17 Bentazon	250.000	240.388	3.845	15.000	Passed
18 Picloram	250.000	267.119	6.847	15.000	Passed
19 DCPA	250.000	246.395	1.442	15.000	Passed
20 Acifluorfen	250.000	241.035	3.586	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	247.140	1.144	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.628	2.149	15.000	Passed
3 4-Nitrophenol	250.000	262.012	4.805	15.000	Passed
4 DCAA (surr)	1200.000	1203.338	0.278	15.000	Passed
5 Dicamba	250.000	246.061	1.576	15.000	Passed
6 MCPP (ppm)	25.000	25.109	0.437	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	27.701	10.804	15.000	Passed
9 Dichloroprop	250.000	238.860	4.456	15.000	Passed
10 2,4-D (m)	1250.000	1259.188	0.735	15.000	Passed
11 Pentachlorphenol	250.000	245.791	1.684	15.000	Passed
12 Silvex (m)	250.000	249.018	0.393	15.000	Passed
13 2,4,5-T (m)	250.000	253.233	1.293	15.000	Passed
14 Dinoseb	250.000	236.735	5.306	15.000	Passed
15 Chloramben	250.000	249.967	0.013	15.000	Passed

16 2,4-DB	1250.000	1130.106	9.591	15.000	Passed
17 Bentazon	250.000	237.092	5.163	15.000	Passed
18 DCPA	250.000	248.066	0.774	15.000	Passed
19 Picloram	250.000	261.930	4.772	15.000	Passed
20 Acifluorfen	250.000	237.918	4.833	15.000	Passed

Signature _____

Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:29
Channel : A
Peak : 6 MCPP(ppm)

* - Replicate Not Used

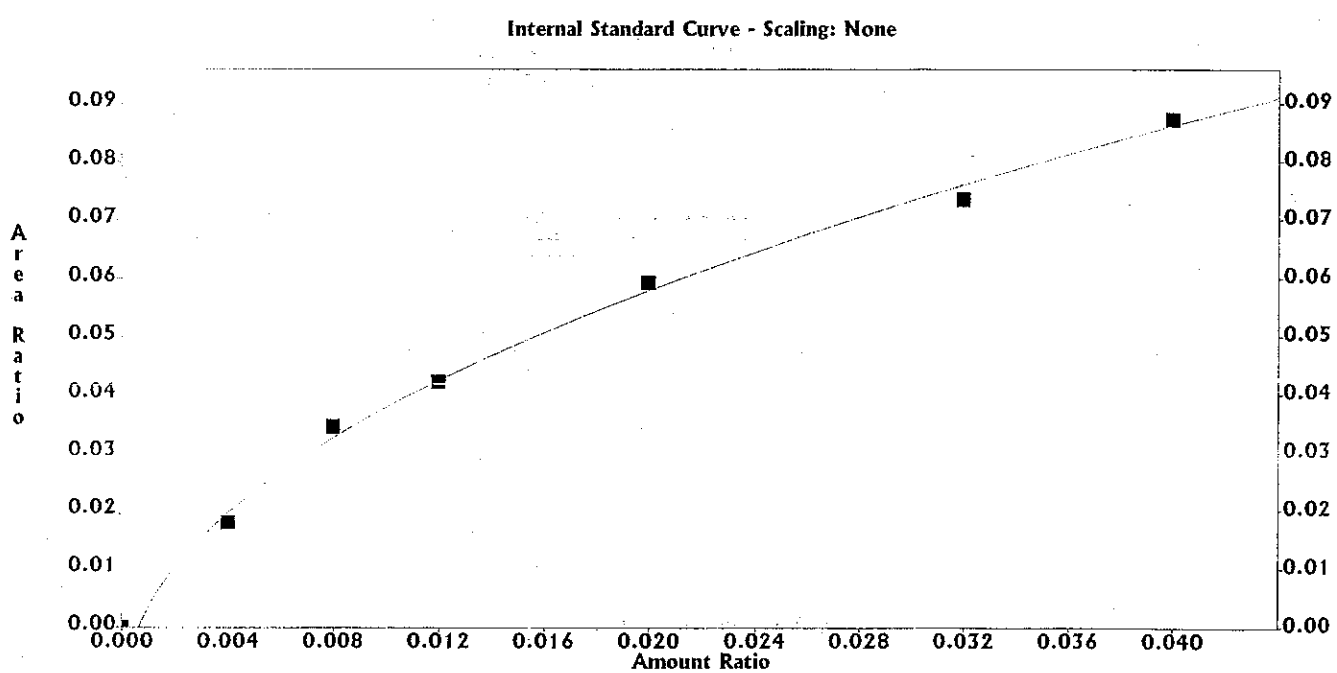
	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0180	0.004	4.51	0.0180							0
2	0.0346	0.008	4.32	0.0346							0
3	0.0422	0.012	3.51	0.0422							0
4	0.0593	0.02	2.96	0.0593							0
5	0.0735	0.032	2.30	0.0735							0
6	0.0873	0.04	2.18	0.0873							0

Calib Flag: Replace

Average RF: 3.29747
RF StdDev: 0.990382
RF %RSD: 30.035

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Quadratic Fit: Amount = 4.30279 x Area^2 + 0.0848303 x Area + 0.000649777
R^2 = 0.994433



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 7 MCPA(PPm)

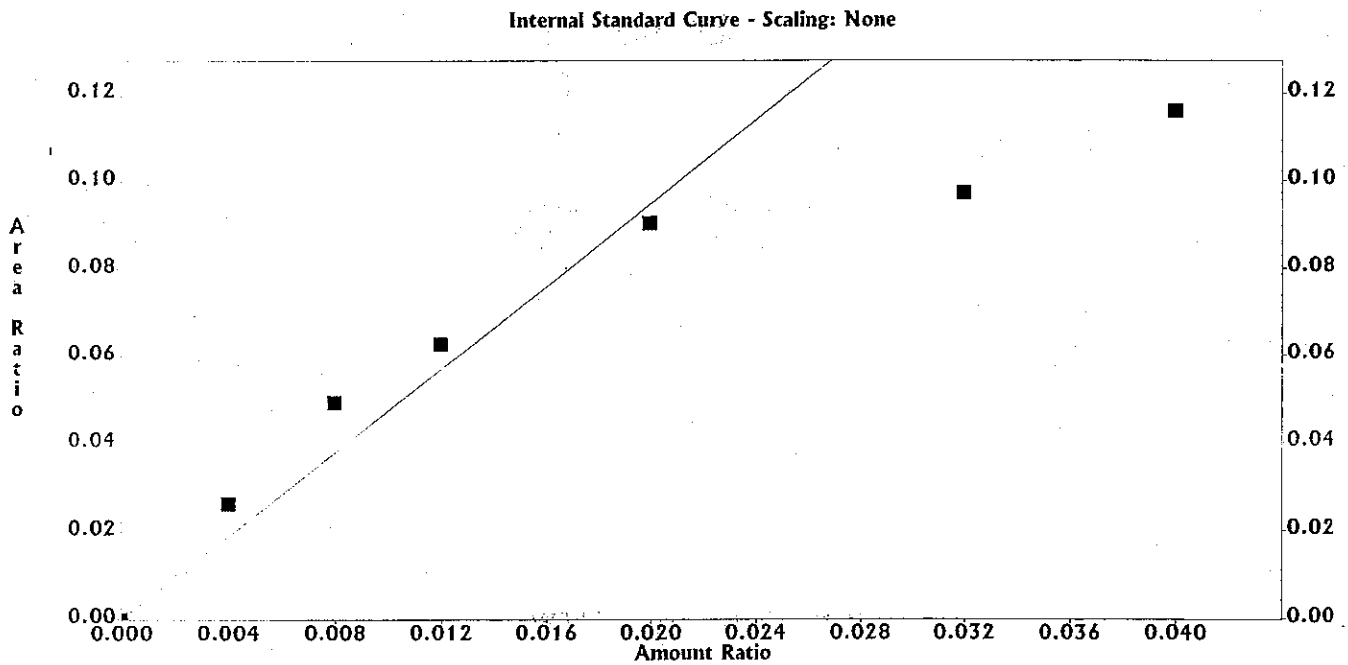
* - Replicate Not Used

I	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.004	6.58	0.0263							0
2	0.0493	0.008	6.16	0.0493							0
3	0.0626	0.012	5.22	0.0626							0
4	0.0904	0.02	4.52	0.0904							0
5	0.0972	0.032	3.04	0.0972							0
6	0.1160	0.04	2.90	0.1160							0

Calib Flag: Replace

Average RF: 4.736
RF StdDev: 1.54539
RF %RSD: 32.631

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 4.736



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 10 DBOB (IS)

* - Replicate Not Used

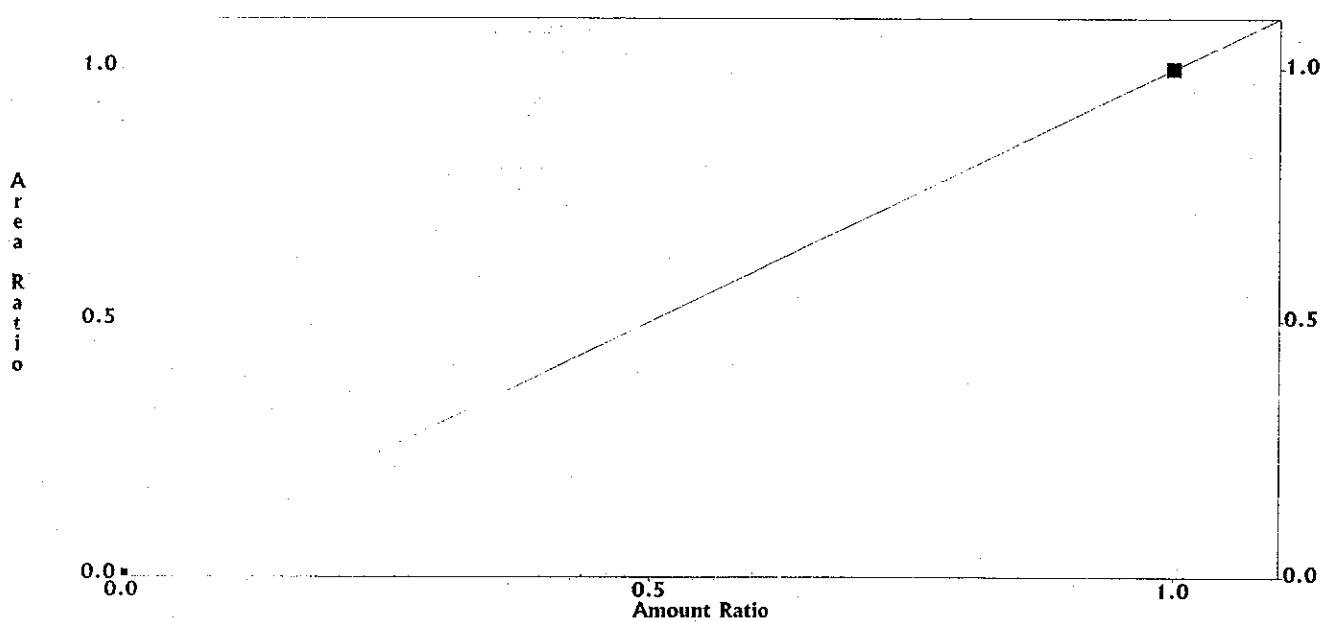
I	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:36
Channel : B
Peak : 6 MCPP (ppm)

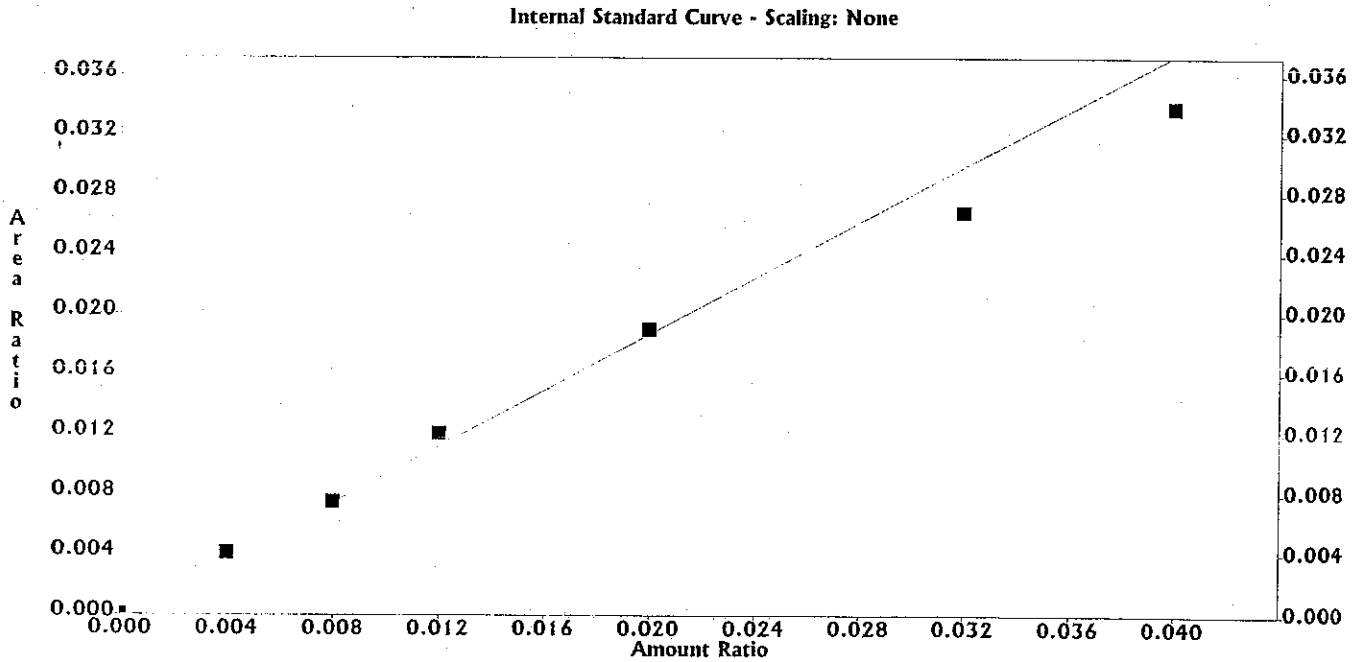
* - Replicate Not Used

	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	0.004	1.03	0.0041							0
2	0.0075	0.008	0.9392	0.0075							0
3	0.0121	0.012	1.01	0.0121							0
4	0.0190	0.02	0.9509	0.0190							0
5	0.0268	0.032	0.8386	0.0268							0
6	0.0338	0.04	0.8461	0.0338							0

Calib Flag: Replace

Average RF: 0.934563
RF StdDev: 0.0786286
RF %RSD: 8.413

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.934563



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:36
Channel : B
Peak : 7 DBOB (IS)

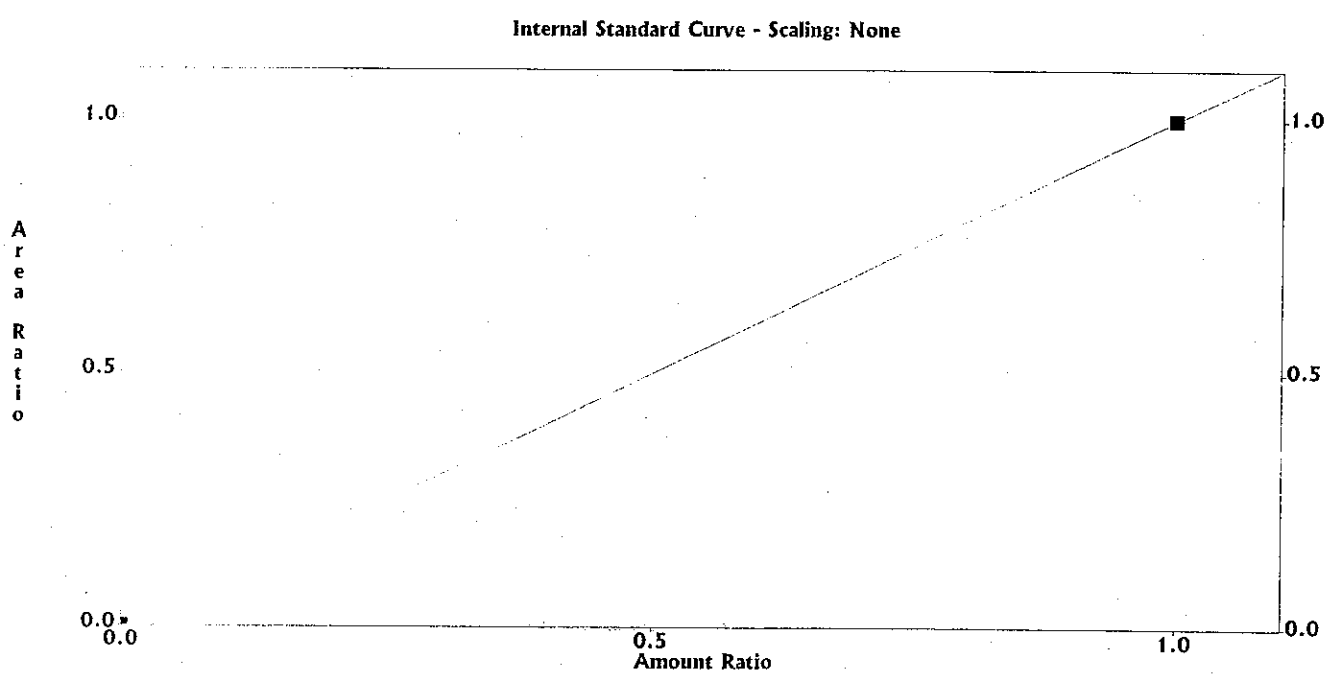
* - Replicate Not Used

	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:37
Channel : B
Peak : 8 MCPA (ppm)

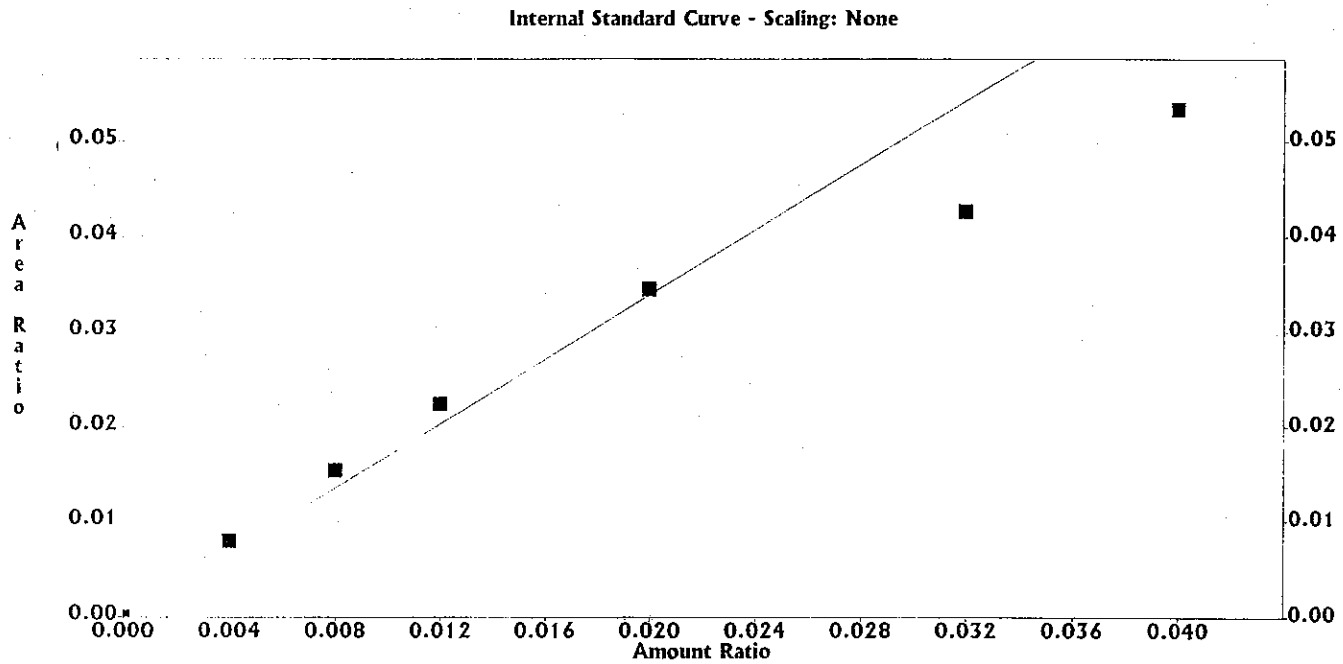
* - Replicate Not Used

I	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0079	0.004	1.98	0.0079							0
2	0.0154	0.008	1.93	0.0154							0
3	0.0225	0.012	1.87	0.0225							0
4	0.0345	0.02	1.73	0.0345							0
5	0.0427	0.032	1.33	0.0427							0
6	0.0534	0.04	1.34	0.0534							0

Calib Flag: Replace

Average RF: 1.69704
RF StdDev: 0.293414
RF %RSD: 17.290

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.69704



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151ta66.icv
ID: icv gc17096 -- Dec 08, 2004 21:27:01
Printed: Jan 12, 2005 15:46:52

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	5.948	18.953	15.000	Failed
7 MCPA(PPm)	5.000	4.779	4.414	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.611	7.778	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	5.136	2.719	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q01
ID: ##04g4163,S gc16862 -- Dec 09, 2004 02:12:22
Printed: Jan 12, 2005 15:46:07

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	251.277	0.511	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	246.077	1.569	15.000	Passed
3 4-Nitrophenol	250.000	253.909	1.564	15.000	Passed
4 DCAA(Surr)	1200.000	1217.966	1.497	15.000	Passed
5 Dicamba	250.000	247.731	0.907	15.000	Passed
6 MCPP(ppm)	25.000	29.099	16.395	15.000	Failed
7 MCPA(PPm)	25.000	27.306	9.223	15.000	Passed
8 Dichloroprop	250.000	251.569	0.628	15.000	Passed
9 2,4-D (m)	1250.000	1227.155	1.828	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	248.061	0.776	15.000	Passed
12 Silvex (m)	250.000	252.224	0.890	15.000	Passed
13 Chloramben	250.000	246.784	1.286	15.000	Passed
14 2,4,5-T (m)	250.000	247.347	1.061	15.000	Passed
15 Dinoseb	250.000	252.367	0.947	15.000	Passed
16 2,4-DB	1250.000	1276.145	2.092	15.000	Passed
17 Bentazon	250.000	241.443	3.423	15.000	Passed
18 Picloram	250.000	273.015	9.206	15.000	Passed
19 DCPA	250.000	248.309	0.676	15.000	Passed
20 Acifluorfen	250.000	255.821	2.328	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	235.264	5.895	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.235	3.106	15.000	Passed
3 4-Nitrophenol	250.000	264.712	5.885	15.000	Passed
4 DCAA (surr)	1200.000	1193.182	0.568	15.000	Passed
5 Dicamba	250.000	247.077	1.169	15.000	Passed
6 MCPP (ppm)	25.000	27.129	8.517	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	26.174	4.697	15.000	Passed
9 Dichloroprop	250.000	237.706	4.918	15.000	Passed
10 2,4-D (m)	1250.000	1266.166	1.293	15.000	Passed
11 Pentachlorphenol	250.000	242.489	3.004	15.000	Passed
12 Silvex (m)	250.000	249.519	0.192	15.000	Passed
13 2,4,5-T (m)	250.000	245.531	1.788	15.000	Passed
14 Dinoseb	250.000	236.842	5.263	15.000	Passed
15 Chloramben	250.000	260.637	4.255	15.000	Passed

16 2,4-DB	1250.000	1124.503	10.040	15.000	Passed
17 Bentazon	250.000	243.494	2.602	15.000	Passed
18 DCPA	250.000	250.049	0.020	15.000	Passed
19 Picloram	250.000	285.846	14.338	15.000	Passed
20 Acifluorfen	250.000	255.996	2.398	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q02
ID: 5ppm gc17092 -- Dec 09, 2004 02:53:03
Printed: Jan 12, 2005 15:46:28

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.311	13.774	15.000	Passed
7 MCPA(PPm)	5.000	4.203	15.935	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.886	2.285	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.765	4.706	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q03
ID: 250ppb gc16862 -- Dec 09, 2004 13:42:09
Printed: Jan 12, 2005 16:13:11

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	249.225	0.310	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	264.881	5.952	15.000	Passed
3 4-Nitrophenol	250.000	265.021	6.008	15.000	Passed
4 DCAA(Surr)	1200.000	1244.701	3.725	15.000	Passed
5 Dicamba	250.000	242.171	3.132	15.000	Passed
6 MCPP(ppm)	25.000	31.865	27.460	15.000	Failed
7 MCPA(PPm)	25.000	27.593	10.372	15.000	Passed
8 Dichloroprop	250.000	253.018	1.207	15.000	Passed
9 2,4-D (m)	1250.000	1235.710	1.143	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	249.386	0.246	15.000	Passed
12 Silvex (m)	250.000	258.274	3.310	15.000	Passed
13 Chloramben	250.000	275.781	10.312	15.000	Passed
14 2,4,5-T (m)	250.000	245.210	1.916	15.000	Passed
15 Dinoseb	250.000	247.329	1.068	15.000	Passed
16 2,4-DB	1250.000	1365.848	9.268	15.000	Passed
17 Bentazon	250.000	243.711	2.516	15.000	Passed
18 Picloram	250.000	269.608	7.843	15.000	Passed
19 DCPA	250.000	225.240	9.904	15.000	Passed
20 Acifluorfen	250.000	264.856	5.942	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	232.037	7.185	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.569	2.172	15.000	Passed
3 4-Nitrophenol	250.000	247.027	1.189	15.000	Passed
4 DCAA (surr)	1200.000	1196.299	0.308	15.000	Passed
5 Dicamba	250.000	246.172	1.531	15.000	Passed
6 MCPP (ppm)	25.000	21.782	12.872	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	24.822	0.711	15.000	Passed
9 Dichloroprop	250.000	234.445	6.222	15.000	Passed
10 2,4-D (m)	1250.000	1341.374	7.310	15.000	Passed
11 Pentachlorphenol	250.000	240.167	3.933	15.000	Passed
12 Silvex (m)	250.000	242.033	3.187	15.000	Passed
13 2,4,5-T (m)	250.000	260.253	4.101	15.000	Passed
14 Dinoseb	250.000	226.566	9.374	15.000	Passed
15 Chloramben	250.000	269.193	7.677	15.000	Passed

16 2,4-DB	1250.000	1099.475	12.042	15.000	Passed
17 Bentazon	250.000	231.729	7.308	15.000	Passed
18 DCPA	250.000	240.326	3.869	15.000	Passed
19 Picloram	250.000	286.736	14.694	15.000	Passed
20 Acifluorfen	250.000	243.221	2.712	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q04
ID: 5ppm gc17092 -- Dec 09, 2004 15:03:35
Printed: Jan 12, 2005 15:58:33

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.073	18.536	15.000	Failed
7 MCPA(PPm)	5.000	3.678	26.449	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.648	7.049	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.831	3.383	15.000	Passed

Signature _____

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176210

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX145[0.5]	176210-001
BB3EX145[1.0]	176210-002
BB3EX146[0.5]	176210-003
BB3EX146[1.0]	176210-004
BB3EX147[0.5]	176210-005
BB3EX147[1.5]	176210-006
BB3EX149[0.5]	176210-007
BB3EX150[0.5]	176210-008
BB3EX150[2.5]	176210-009
DUP112204A	176210-010
BB3EX148[0.5]	176210-011
TB112204A	176210-012

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 12/29/04
Operations Manager

Signature: _____ Date: 12/28/04
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	176210
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	11/22/04
Samples Received:	11/22/04

This hardcopy data package contains sample and QC results for eleven soil samples and one water sample, requested for the above referenced project on 11/22/04. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):
High recovery was observed for diesel C12-C24 in the MSD for batch 97026; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:
Low response was observed for Freon 12 in the ICV analyzed 11/21/04 21:19; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
High responses were observed for acetone, chloroethane, and Freon 12 in the CCV analyzed 11/23/04 15:54; these analytes were not detected at or above the RL in the associated samples. High recoveries were observed for 1,1-dichloroethene in the MS/MSD of BB3EX149[0.5] (lab # 176210-007); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated sample. High surrogate recoveries were observed for dibromofluoromethane in BB3EX149[0.5] (lab # 176210-007) and the MS/MSD of BB3EX149[0.5] (lab # 176210-007). No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
High response was observed for dibenz(a,h)anthracene in the CCV analyzed 11/30/04 12:56; this analyte was not detected at or above the RL in the associated sample. High recoveries were observed for 4-chloro-3-methylphenol, 2-chlorophenol, and 2,4-dinitrotoluene in the MS for batch 96880; the parent sample was not a project sample, the LCS was within limits, the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for methoxychlor in the ICV analyzed 11/03/04 15:12; average ICV drift met method requirements, and this analyte was not detected at or above the RL in the associated samples. Low surrogate recovery was observed for TCMX in BB3EX146[1.0] (lab # 176210-004); the corresponding decachlorobiphenyl surrogate recovery was within limits. Low surrogate recovery was observed for decachlorobiphenyl in the MSD for batch 96774; the

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	176210
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	11/22/04
Samples Received:	11/22/04

Pesticides (EPA 8081A):
corresponding TCMX surrogate recovery was within limits, and the parent sample was not a project sample. No other analytical problems were encountered.

Chlorinated Herbicides (EPA 8151):
APCL in Chino, CA performed the analysis. Please see the APCL case narrative.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
Low recoveries were observed for copper, antimony, and vanadium in the MS/MSD for batch 96876; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. High recovery was observed for copper in the MS for batch 96876; the BS/BSD were within limits, and the associated RPD was within limits. High RPD was observed for lead in the MS/MSD for batch 96876; the RPD was acceptable in the BS/BSD. Low recoveries were observed for antimony in the MS/MSD for batch 96876; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for barium, lead, and zinc in the MSD for batch 96876; the BS/BSD were within limits. Response exceeding the instrument's linear ranges were observed for a number of analytes in the MSs/MSDs for batch 96876. High % difference was observed for beryllium in the serial dilution for batch 96876. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

176210

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2593.12
Project Manager\Contact: Sigrid Reinis
Samplers: Mike Chamberlain (MAC)
Recorder (Signature Required):

Turnaround Time: 48 hr

Analysis Requested

	Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Metals	PCBs	Pesticides	VOCs	SVOCs	Inorganics	TPH	TPHs	Cyclor bench.				Silica gel clean-up	Hold	Remarks
-1	BB3EX145[0.5]	11/22/04	1331		X						1		X	X	X												
-2	BB3EX145[1.0]		1333		X						1		X	X	X												
-3	BB3EX146[0.5]		1336		X						1		X	X	X												
-4	BB3EX146[1.0]		1337		X						1		X	X	X												
-5	BB3EX147[0.5]		1339		X						1		X	X	X												
-6	BB3EX147[1.5]		1342		X						1		X	X	X												
-7	BB3EX149[0.5]		1348		X						1		X	X	X	X	X	X	X	X	X				X		
-8	BB3EX150[0.5]		1354		X						1		X	X	X												
-9	BB3EX150[2.5]		1404		X						1		X	X	X												
-10	DUP112204A		1405		X						1		X	X	X												
-11	BB3EX148[0.5]		1408		X						1		X	X	X												
-12	TB112204A	11/22/04	1437		X			1								X											

Sample tube from labeled "B" in a

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/22/04	1438	[signature]	11/22/04	1438
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002246

RECEIVED ON ICE

5

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: X Client Request: By: S. Stanley Date/Time: 11/23/04 1225 Initials: SES

~~X~~ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
BB3EX149 [0.5]		176210-007	SOIL	Update Due Date	T26/HG T26/ICP		12/1
					PCB		
					8081		
					8260		
					8270		
					TEHM		

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

REVISED

Reason for change: x Client Request: By: M. Chamberlain Date/Time: 11/23/04 1230 Initials: SEG
_____ Login Review _____ Data Review

Client/Acct: TREADWELL

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
176210-012		TB112204A	Water	Update	8260		12/1
				Due Date			

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176210 Date Received: 11-22-04 Number of Coolers: 1
Client: Treadwell + Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 11-22-04 By (print): Troy Windsor (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____ N/A
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: wet Temperature: Cold - no temp blank

B. Login Phase
Date Logged In: 11-22-04 By (print): Troy Windsor (sign) [signature]

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO *
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
* 7 - Could be limited sample for all the analyses they are requesting.

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3EX149[0.5]	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	12/01/04
Diln Fac:	1.000	Analyzed:	12/02/04
Batch#:	97026		

Type:	SAMPLE	Moisture:	4%
Lab ID:	176210-007	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL
Diesel C12-C24	9.4 H Y	1.0
Motor Oil C24-C36	18	5.2

Surrogate	%REC	Limits
Hexacosane	120	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC274457	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	82	65-135

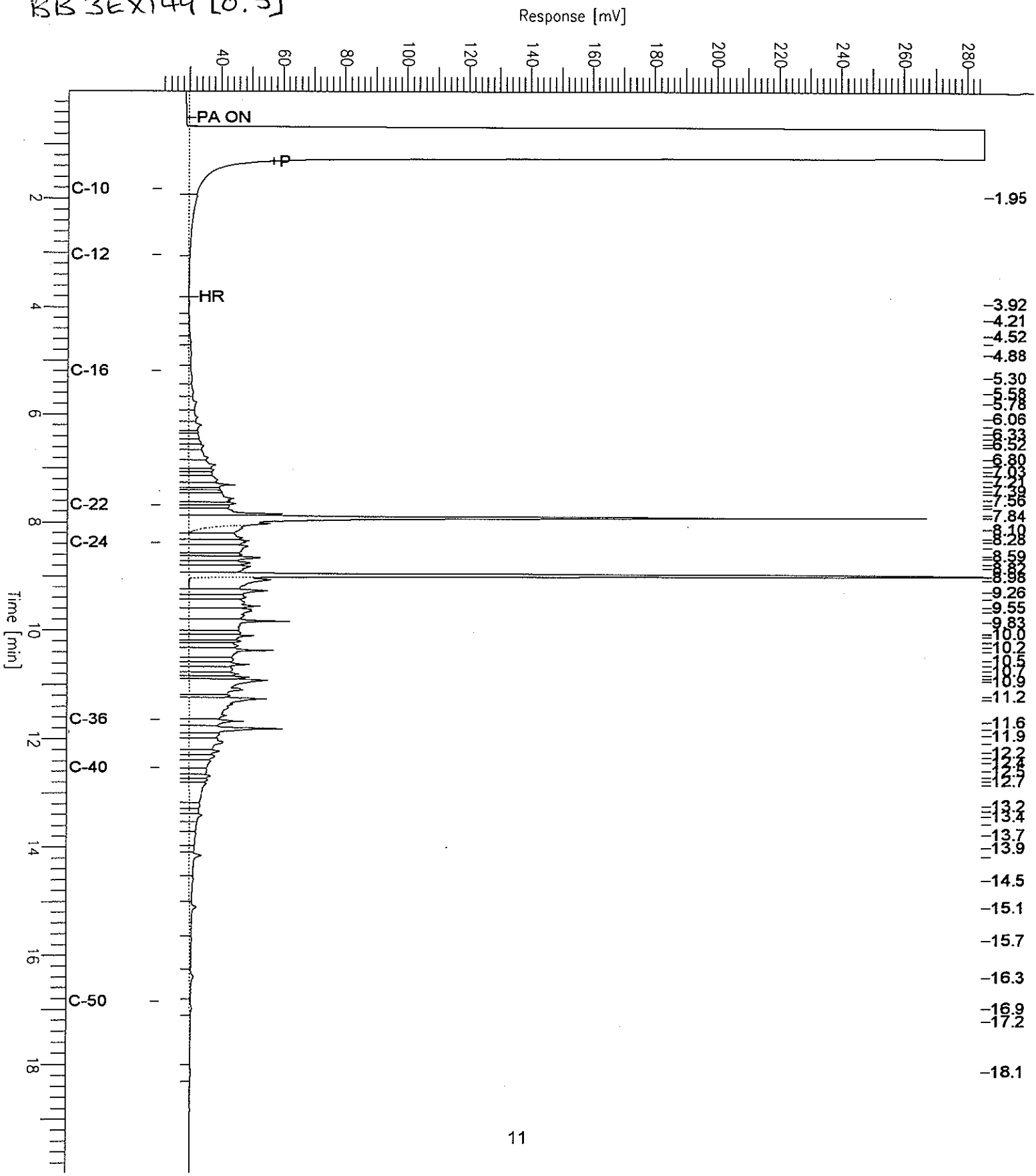
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 176210-007sg,97026
FileName : G:\GC17\CHA\334A140.RAW
Method : ATEH336.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 21 mV

Sample #: 97026 Page 1 of 1
Date : 12/2/04 01:59 PM
Time of Injection: 12/2/04 01:38 PM
Low Point : 20.82 mV High Point : 285.61 mV
Plot Scale: 264.8 mV

BB 3EX149 [0.5]



Chromatogram

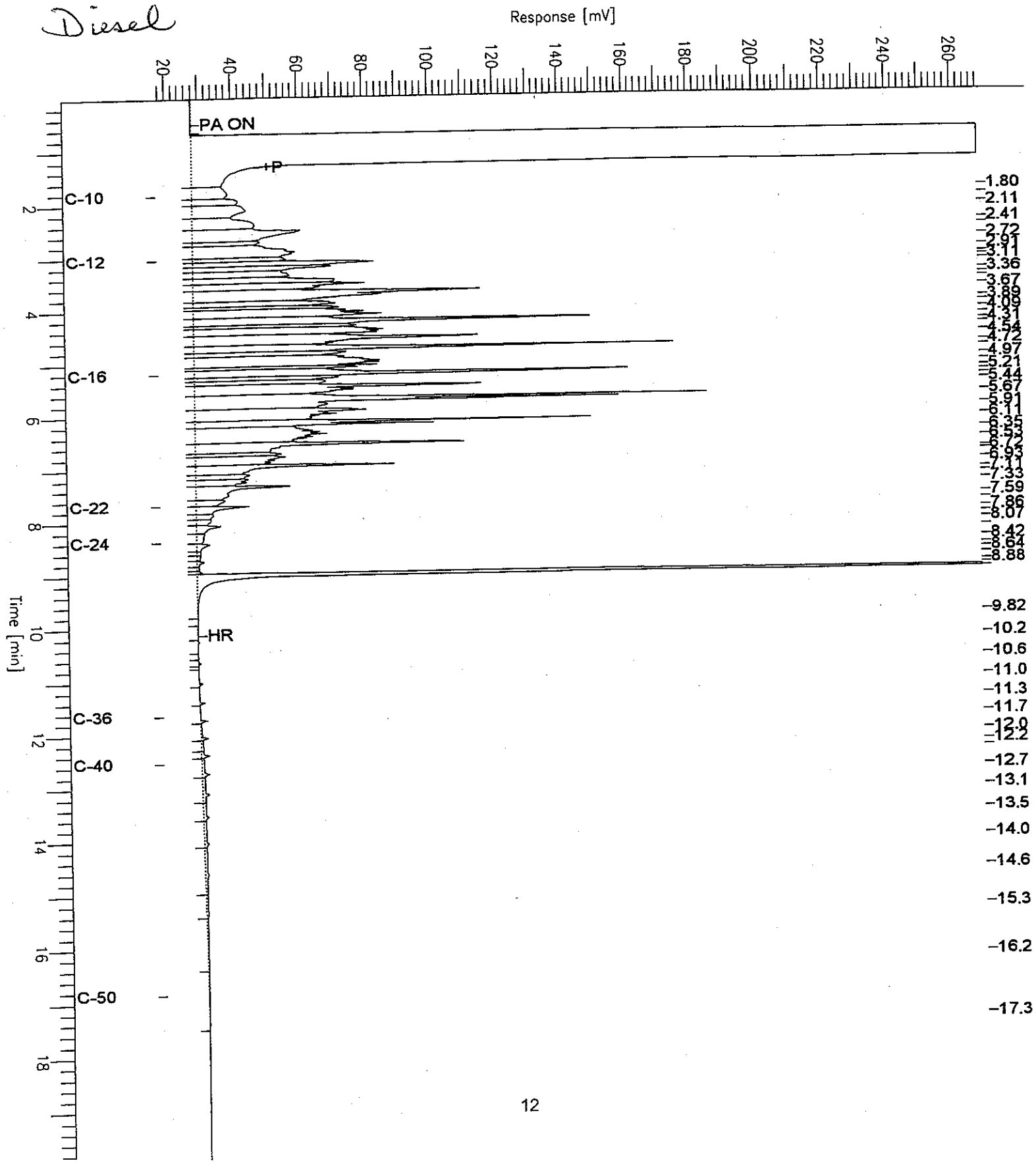
Sample Name : ccv,04ws1975,dsl
FileName : G:\GC17\CHA\334A003.RAW
Method : ATEH329.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 17 mV

Sample #: 500mg/L
Date : 11/29/04 10:24 AM
Time of Injection: 11/29/04 09:56 AM
Low Point : 17.24 mV
Plot Scale: 251.1 mV

High Point : 268.32 mV

Diesel



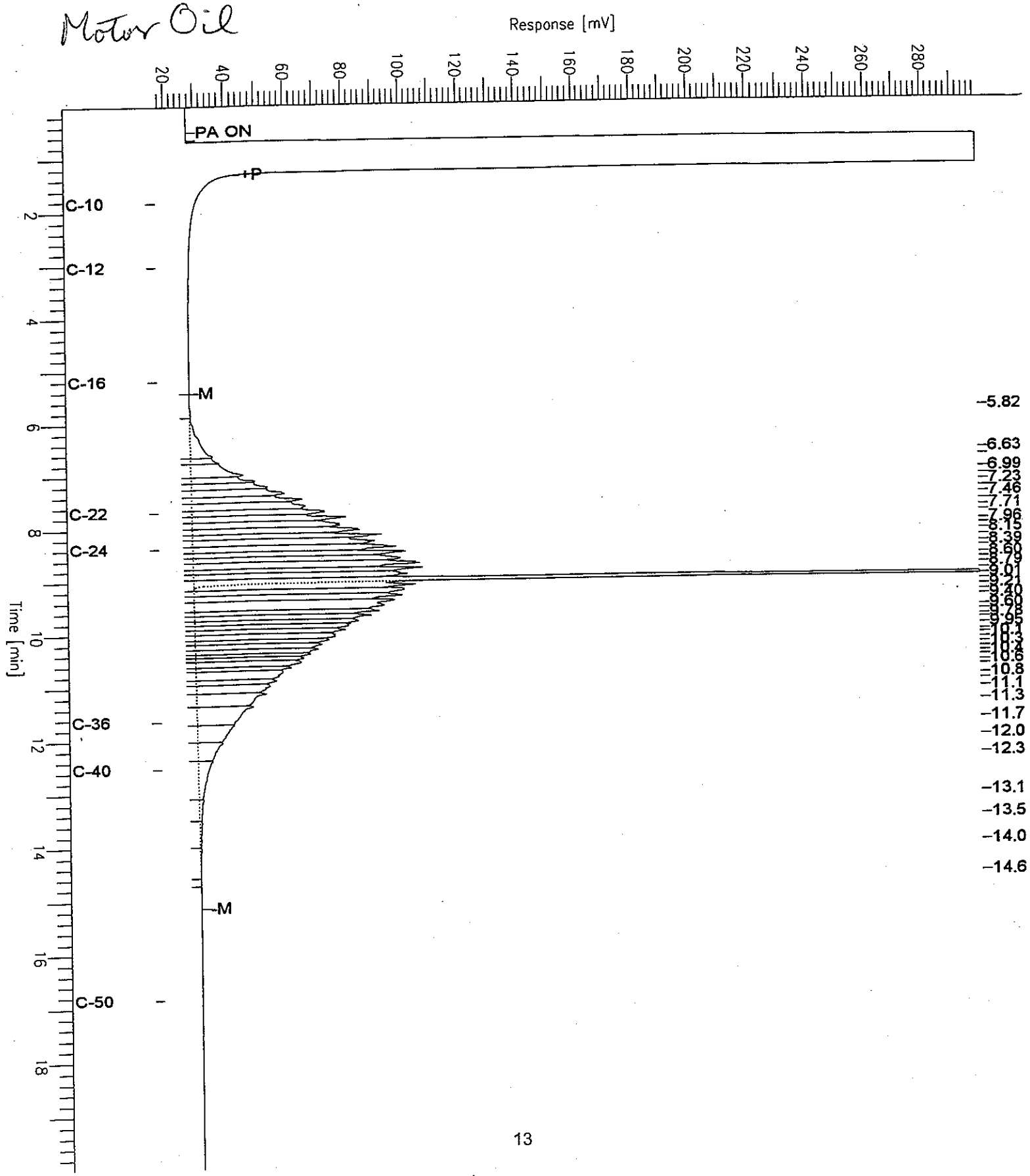
Chromatogram

Sample Name : ccv,04ws2074,mo
FileName : G:\GC17\CHA\334A004.RAW
Method : ATEH329.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 17 mV

Sample #: 500mg/L
Date : 11/29/04 10:51 AM
Time of Injection: 11/29/04 10:24 AM
Low Point : 17.00 mV
High Point : 298.79 mV
Plot Scale: 281.8 mV

Motor Oil



Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC274458	Batch#:	97026
Matrix:	Soil	Prepared:	12/01/04
Units:	mg/Kg	Analyzed:	12/02/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	50.03	43.51	87	65-135

Surrogate	%REC	Limits
Hexacosane	96	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	97026
MSS Lab ID:	176242-004	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	12/01/04
Basis:	dry	Analyzed:	12/03/04
Diln Fac:	1.000		

Type: MS Moisture: 18%
Lab ID: QC274459

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	50.28	60.70	132.0	135	65-135

Surrogate	%REC	Limits
Hexacosane	106	65-135

Type: MSD Moisture: 18%
Lab ID: QC274460

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	61.05	146.3	157 *	65-135	10	35

Surrogate	%REC	Limits
Hexacosane	123	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MMP
Calnum: 144283164001 Name: Diesel Type: (normal) Date: 14-JUL-2004 15:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b002	144283164002	dsl	14-JUL-2004 15:24	04WS1223
2	196b003	144283164003	dsl	14-JUL-2004 15:52	04WS1222
3	196b004	144283164004	dsl	14-JUL-2004 16:19	04WS1221
4	196b005	144283164005	dsl	14-JUL-2004 16:47	04WS1220
5	196b006	144283164006	dsl	14-JUL-2004 17:15	04WS1219
6	196b007	144283164007	dsl	14-JUL-2004 17:43	04WS1218
7	196b008	144283164008	dsl	14-JUL-2004 18:11	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	14421	17664	18224	19506	19898	20754	20231	AVRG R		5.356E-5		mg/L	18671	12	0.995	20	

16

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC13B Calname : Diesel
Calnum : 144283164001 Caldate : 14-JUL-2004 Caltype :

ICV 144283164027 (196b027) standards: 04WS0983

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	144283164027	15-JUL-2004	500.00	495.14	mg/L	-1

INITIAL CALIBRATION REPORT FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MMP
Calnum: 144283164003 Name: Hexacosane Type: (normal) Date: 14-JUL-2004 22:20 Inj Vol (uL): 3

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	196b017	144283164017	hex	14-JUL-2004 22:20	04WS0533
2	196b018	144283164018	hex	14-JUL-2004 22:48	04WS0534
3	196b019	144283164019	hex	14-JUL-2004 23:15	04WS0535
4	196b020	144283164020	hex	14-JUL-2004 23:43	04WS0536
5	196b021	144283164021	hex	15-JUL-2004 00:11	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	23341	25682	25454	25462	26153	AVRG R		3.965E-5		mg/L	25218	4	0.995	20	

18

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 174472877001 Name: Diesel Type: (normal) Date: 23-NOV-2004 16:39 Inj Vol (uL): 3

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	328a007	174472877007	dsl10	23-NOV-2004 16:39	04WS1748
2	328a008	174472877008	dsl100	23-NOV-2004 17:08	04WS1747
3	328a009	174472877009	dsl250	23-NOV-2004 17:36	04WS1746
4	328a010	174472877010	dsl500	23-NOV-2004 18:05	04WS1745
5	328a011	174472877011	dsl1000	23-NOV-2004 18:34	04WS1744
6	328a012	174472877012	dsl2500	23-NOV-2004 19:02	04WS1743
7	328a013	174472877013	dsl5000	23-NOV-2004 19:30	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	18722	22202	22993	22083	22475	22448	21927	AVRG R		4.580E-5		mg/L	21836	6	0.995	20	

19

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC17A Calname : Diesel
Calnum : 174472877001 Caldate : 23-NOV-2004 Caltype :

ICV 174472877015 (328a015) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	174472877015	23-NOV-2004	500.00	480.68	mg/L	-4

INITIAL CALIBRATION REPORT FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 174472877002 Name: Motor Oil Type: (normal) Date: 23-NOV-2004 21:25 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328a017	174472877017	mo50	23-NOV-2004 21:25	04WS2172
2	328a018	174472877018	mo250	23-NOV-2004 21:53	04WS2173
3	328a019	174472877019	mo500	23-NOV-2004 22:22	04WS2174
4	328a020	174472877020	mo1000	23-NOV-2004 22:50	04WS2175
5	328a021	174472877021	mo2500	23-NOV-2004 23:19	04WS2176
6	328a022	174472877022	mo5000	23-NOV-2004 23:47	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	16717	17917	18715	18507	17959	19057	AVRG R		5.511E-5		mg/L	18145	5	0.995	20	

21

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 174472877003 Name: Hexacosane Type: (normal) Date: 24-NOV-2004 00:44 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328a024	174472877024	hex5	24-NOV-2004 00:44	04WS2042
2	328a025	174472877025	hex10	24-NOV-2004 01:13	04WS2043
3	328a026	174472877026	hex25	24-NOV-2004 01:41	04WS2044
4	328a027	174472877027	hex50	24-NOV-2004 02:10	04WS2045
5	328a028	174472877028	hex75	24-NOV-2004 02:38	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	26996	26230	26764	26858	30125	AVRG R		3.650E-5		mg/L	27394	6	0.995	20	

22

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	144485974016	02-DEC-2004 19:11	144283164001	14-JUL-2004	18671	21532	1000.0	1153.2	mg/L	15	15	
GC13B	B	144485974030	03-DEC-2004 01:42	144283164001	14-JUL-2004	18671	19972	250.00	267.42	mg/L	7	15	
GC13B	B	144485974044	03-DEC-2004 08:10	144283164001	14-JUL-2004	18671	20229	500.00	541.72	mg/L	8	15	
GC17A	A	174481498134	02-DEC-2004 10:19	174472877001	23-NOV-2004	21836	24003	500.00	549.63	mg/L	10	15	
GC17A	A	174481498148	02-DEC-2004 17:26	174472877001	23-NOV-2004	21836	23138	1000.0	1059.6	mg/L	6	15	
GC17A	A	174481498162	03-DEC-2004 00:08	174472877001	23-NOV-2004	21836	22762	250.00	260.60	mg/L	4	15	

CONTINUING CALIBRATION SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC17A	A	174481498135	02-DEC-2004 10:47	174472877002	23-NOV-2004	18145	19697	500.00	542.75	mg/L	9	15	
GC17A	A	174481498149	02-DEC-2004 17:55	174472877002	23-NOV-2004	18145	19114	500.00	526.68	mg/L	5	15	

CONTINUING CALIBRATION SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	144485974016	02-DEC-2004 19:11	144283164003	14-JUL-2004	25218	29084	50.000	57.664	mg/L	15	15	
GC13B	B	144485974030	03-DEC-2004 01:42	144283164003	14-JUL-2004	25218	27653	50.000	54.826	mg/L	10	15	
GC13B	B	144485974044	03-DEC-2004 08:10	144283164003	14-JUL-2004	25218	27127	50.000	53.783	mg/L	8	15	
GC17A	A	174481498134	02-DEC-2004 10:19	174472877003	24-NOV-2004	27394	29068	50.000	53.055	mg/L	6	15	
GC17A	A	174481498148	02-DEC-2004 17:26	174472877003	24-NOV-2004	27394	29544	50.000	53.923	mg/L	8	15	
GC17A	A	174481498162	03-DEC-2004 00:08	174472877003	24-NOV-2004	27394	28503	50.000	52.024	mg/L	4	15	

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144283164 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 14-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	196b001	X	ib			14-JUL-2004 14:56	1.0						
002	196b002	ICAL	dsl			14-JUL-2004 15:24	1.0					1	
003	196b003	ICAL	dsl			14-JUL-2004 15:52	1.0					2	
004	196b004	ICAL	dsl			14-JUL-2004 16:19	1.0					3	
005	196b005	ICAL	dsl			14-JUL-2004 16:47	1.0					4	
006	196b006	ICAL	dsl			14-JUL-2004 17:15	1.0					5	
007	196b007	ICAL	dsl			14-JUL-2004 17:43	1.0					6	
008	196b008	ICAL	dsl			14-JUL-2004 18:11	1.0					7	
009	196b009	X	ib			14-JUL-2004 18:39	1.0						
010	196b010	ICAL	mo			14-JUL-2004 19:07	1.0					8	
011	196b011	ICAL	mo			14-JUL-2004 19:34	1.0					9	
012	196b012	ICAL	mo			14-JUL-2004 20:02	1.0					10	
013	196b013	ICAL	mo			14-JUL-2004 20:30	1.0					11	
014	196b014	ICAL	mo			14-JUL-2004 20:57	1.0					12	
015	196b015	ICAL	mo			14-JUL-2004 21:25	1.0					13	
016	196b016	X	ib			14-JUL-2004 21:53	1.0						
017	196b017	ICAL	hex			14-JUL-2004 22:20	1.0					14	
018	196b018	ICAL	hex			14-JUL-2004 22:48	1.0					15	
019	196b019	ICAL	hex			14-JUL-2004 23:15	1.0					16	
020	196b020	ICAL	hex			14-JUL-2004 23:43	1.0					17	
021	196b021	ICAL	hex			15-JUL-2004 00:11	1.0					18	
022	196b022	X	ib			15-JUL-2004 00:38	1.0						
023	196b023	X	c10-16			15-JUL-2004 01:06	1.0						
024	196b024	X	c12-60			15-JUL-2004 01:33	1.0						
025	196b025	X	c50			15-JUL-2004 02:01	1.0						
026	196b026	X	ib			15-JUL-2004 02:28	1.0						
027	196b027	ICV	dsl			15-JUL-2004 02:56	1.0		3			19	
028	196b028	CCV	dsl			15-JUL-2004 03:24	1.0		3			20	
029	196b029	CCV	mo			15-JUL-2004 03:51	1.0		3			21	

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533 15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0983 20=04WS1144 21=04WS1249

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174472877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 23-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	328a001	X	primer			23-NOV-2004 09:17	1.0					
002	328a002	X	ib			23-NOV-2004 09:46	1.0					
003	328a003	CCV	dsl			23-NOV-2004 13:09	1.0				1	
004	328a004	CCV	mo			23-NOV-2004 13:38	1.0	1.0		3	2	
005	328a005	X	primer			23-NOV-2004 15:42	1.0					
006	328a006	X	ib			23-NOV-2004 16:11	1.0					
007	328a007	ICAL	dsl10			23-NOV-2004 16:39	1.0	1.0			3	
008	328a008	ICAL	dsl100			23-NOV-2004 17:08	1.0	1.0			4	
009	328a009	ICAL	dsl250			23-NOV-2004 17:36	1.0	1.0			5	
010	328a010	ICAL	dsl500			23-NOV-2004 18:05	1.0	1.0			6	
011	328a011	ICAL	dsl1000			23-NOV-2004 18:34	1.0	1.0			7	
012	328a012	ICAL	dsl2500			23-NOV-2004 19:02	1.0	1.0			8	
013	328a013	ICAL	dsl5000			23-NOV-2004 19:30	1.0	1.0			9	
014	328a014	X	ib			23-NOV-2004 19:59	1.0					
015	328a015	ICV	dsl500			23-NOV-2004 20:28	1.0	1.0		3	10	
016	328a016	X	ib			23-NOV-2004 20:56	1.0					
017	328a017	ICAL	mo50			23-NOV-2004 21:25	1.0	1.0			11	
018	328a018	ICAL	mo250			23-NOV-2004 21:53	1.0	1.0			12	
019	328a019	ICAL	mo500			23-NOV-2004 22:22	1.0	1.0			13	
020	328a020	ICAL	mo1000			23-NOV-2004 22:50	1.0	1.0			14	
021	328a021	ICAL	mo2500			23-NOV-2004 23:19	1.0	1.0			15	
022	328a022	ICAL	mo5000			23-NOV-2004 23:47	1.0	1.0			16	
023	328a023	X	ib			24-NOV-2004 00:16	1.0					
024	328a024	ICAL	hex5			24-NOV-2004 00:44	1.0	1.0			17	
025	328a025	ICAL	hex10			24-NOV-2004 01:13	1.0	1.0			18	
026	328a026	ICAL	hex25			24-NOV-2004 01:41	1.0	1.0			19	
027	328a027	ICAL	hex50			24-NOV-2004 02:10	1.0	1.0			20	
028	328a028	ICAL	hex75			24-NOV-2004 02:38	1.0	1.0			21	
029	328a029	X	ib			24-NOV-2004 03:06	1.0					
030	328a030	CCV	dsl			24-NOV-2004 03:35	1.0	1.0		3	22	

Stds used: 1=04WS2215 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS2006 11=04WS2172 12=04WS2173 13=04WS2174 14=04WS2175 15=04WS2176 16=04WS2169 17=04WS2042 18=04WS2043 19=04WS2044 20=04WS2045 21=04WS2046 22=04WS1975 23=04WS2195 24=04WS1853 25=04WS1972 26=04WS1817 27=04WS1974

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174472877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 23-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	328a031	CCV	mo			24-NOV-2004 04:03	1.0	1.0			3	23	
032	328a032	X	ib			24-NOV-2004 04:32	1.0						
033	328a033	X	c10-16			24-NOV-2004 05:00	1.0						
034	328a034	X	c12-60			24-NOV-2004 05:29	1.0						
035	328a035	X	c-50			24-NOV-2004 05:57	1.0						
036	328a036	LCS	QC273710 S	96845	Soil	24-NOV-2004 12:21	1.0	0.1002			3		
037	328a037	XLANK	QC273709 S	96845	Soil	24-NOV-2004 12:49	1.0	0.1002			3		
038	328a038	SAMPLE	176195-002 S	96845	Soil	24-NOV-2004 13:18	1.0	0.1000		1	3		
039	328a039	SAMPLE	176195-001 S	96845	Soil	24-NOV-2004 13:46	1.0	0.1000			3		
040	328a040	SAMPLE	176195-002 S	96845	Soil	24-NOV-2004 15:01	1.0	0.1000			3		
041	328a041	SAMPLE	176154-001	96845	Miscel	24-NOV-2004 15:40	1.0	0.1000	3		3		11:BUNKC:=24166.8
042	328a042	MS	QC273713	96845	Soil	24-NOV-2004 16:08	1.0	0.1004	1	1	3		1:HXCS=159.534
043	328a043	MSD	QC273714	96845	Soil	24-NOV-2004 16:37	1.0	0.1002	1	1	3		3:BUNKC:=5774.67
044	328a044	CCV	dsl			24-NOV-2004 17:05	1.0	1.0			3	24	
045	328a045	CCV	mo			24-NOV-2004 17:34	1.0	1.0			3	25	
046	328a046	CCV	jet			24-NOV-2004 18:02	1.0	1.0			3	26	
047	328a047	BLANK	QC273632	96825	Water	24-NOV-2004 18:31	1.0	0.005	7		3		
048	328a048	SAMPLE	176088-002	96825	Water	24-NOV-2004 19:00	1.0	0.005			3		
049	328a049	SAMPLE	176088-003	96825	Water	24-NOV-2004 19:28	1.0	0.005			3		2:BUNKC:=6356.59
050	328a050	SAMPLE	176088-004	96825	Water	24-NOV-2004 19:57	1.0	0.005			3		
051	328a051	SAMPLE	176088-005	96825	Water	24-NOV-2004 20:26	1.0	0.005			3		
052	328a052	SAMPLE	176088-006	96825	Water	24-NOV-2004 20:54	1.0	0.005			3		
053	328a053	SAMPLE	176088-007	96825	Water	24-NOV-2004 21:23	1.0	0.005	1		3		1:HXCS=76.9586
054	328a054	SAMPLE	176088-008	96825	Water	24-NOV-2004 21:52	1.0	0.005			3		
055	328a055	SAMPLE	176088-001	96825	Water	24-NOV-2004 22:21	1.0	0.005			3		
056	328a056	CCV	dsl			24-NOV-2004 22:49	1.0	1.0			3	27	
057	328a057	CCV	mo			24-NOV-2004 23:18	1.0	1.0			3	23	
058	328a058	X	ccv			24-NOV-2004 23:47	1.0					27	
059	328a059	CCV	jet			25-NOV-2004 00:16	1.0	1.0			3	26	

Stds used: 1=04WS2215 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS2006 11=04WS2172 12=04WS2173 13=04WS2174 14=04WS2175 15=04WS2176 16=04WS2169 17=04WS2042 18=04WS2043 19=04WS2044 20=04WS2045 21=04WS2046 22=04WS1975 23=04WS2195 24=04WS1853 25=04WS1972 26=04WS1817 27=04WS1974

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	334a001	X	primer			29-NOV-2004 08:58	1.0					
002	334a002	X	ib			29-NOV-2004 09:27	1.0					
003	334a003	CCV	dsl			29-NOV-2004 09:56	1.0	1.0		3	1	
004	334a004	CCV	mo			29-NOV-2004 10:24	1.0	1.0		3	2	
005	334a005	CCV	ker			29-NOV-2004 11:39	1.0	1.0		3	3	
006	334a006	SAMPLE	176154-001	96845	Miscel	29-NOV-2004 13:17	10.0	0.1000		3		
007	334a007	SAMPLE	176088-007	96825	Water	29-NOV-2004 13:45	1.0	0.005	1	3		
008	334a008	SAMPLE	176153-002	96845	Soil	29-NOV-2004 14:14	2.0	0.09956		3		3:BUNKC:=11340.6
009	334a009	SAMPLE	176153-005	96845	Soil	29-NOV-2004 14:42	2.0	0.09934		3		1:BUNKC:=5368.00
010	334a010	SAMPLE	176153-006	96845	Soil	29-NOV-2004 15:10	2.0	0.09964		3		
011	334a011	BLANK	QC273881	96883	Soil	29-NOV-2004 18:23	1.0	0.1004	8	3		
012	334a012	SAMPLE	176153-003	96883	Soil	29-NOV-2004 18:51	1.0	0.09905		3		
013	334a013	SAMPLE	176153-010	96883	Soil	29-NOV-2004 19:20	1.0	0.09909		3		
014	334a014	SAMPLE	176153-011	96883	Soil	29-NOV-2004 19:49	1.0	0.09974		3		
015	334a015	SAMPLE	176153-025	96883	Soil	29-NOV-2004 20:17	1.0	0.1005		3		
016	334a016	CCV	dsl			29-NOV-2004 20:46	1.0	1.0		3	4	
017	334a017	CCV	mo			29-NOV-2004 21:15	1.0	1.0		3	5	
018	334a018	X	ccv			29-NOV-2004 21:43	1.0				4	
019	334a019	CCV	ker			29-NOV-2004 22:12	1.0	1.0		3	3	
020	334a020	SAMPLE	176153-013	96883	Soil	29-NOV-2004 22:41	1.0	0.09964		3		
021	334a021	SAMPLE	176153-026	96883	Soil	29-NOV-2004 23:09	1.0	0.1002		3		
022	334a022	SAMPLE	176153-034	96883	Soil	29-NOV-2004 23:37	1.0	0.0999		3		
023	334a023	SAMPLE	176153-031	96883	Soil	30-NOV-2004 00:06	1.0	0.0994		3		
024	334a024	SAMPLE	176153-012	96883	Soil	30-NOV-2004 00:34	1.0	0.09978		3		
025	334a025	SAMPLE	176153-020	96883	Soil	30-NOV-2004 01:03	1.0	0.1004		3		
026	334a026	SAMPLE	176153-021	96883	Soil	30-NOV-2004 01:31	1.0	0.09986		3		
027	334a027	LCS	QC273882	96883	Soil	30-NOV-2004 01:59	1.0	0.0994		3		
028	334a028	SAMPLE	176153-036	96883	Soil	30-NOV-2004 02:27	1.0	0.09954		3		
029	334a029	MSS	176153-029	96883	Soil	30-NOV-2004 02:56	1.0	0.1001	8	3		
030	334a030	CCV	dsl			30-NOV-2004 03:24	1.0	1.0		3	6	
031	334a031	CCV	mo			30-NOV-2004 03:52	1.0	1.0		3	5	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	334a032	X	ccv			30-NOV-2004 04:21	1.0					6	
033	334a033	CCV	ker			30-NOV-2004 04:49	1.0	1.0			3	3	
034	334a034	MS	QC273883	96883	Soil	30-NOV-2004 05:17	1.0	0.1003			3		
035	334a035	MSD	QC273884	96883	Soil	30-NOV-2004 05:45	1.0	0.09962			3		
036	334a036	SAMPLE	176153-022	96883	Soil	30-NOV-2004 06:13	1.0	0.09925			3		
037	334a037	SAMPLE	176153-023	96883	Soil	30-NOV-2004 06:41	1.0	0.09909			3		
038	334a038	SAMPLE	176142-001	96883	Soil	30-NOV-2004 07:10	1.0	0.0996			3		
039	334a039	SAMPLE	176153-028	96883	Soil	30-NOV-2004 07:38	1.0	0.09994			3		
040	334a040	SAMPLE	176153-033	96883	Soil	30-NOV-2004 08:56	1.0	0.09974			3		
041	334a041	SAMPLE	176153-027	96883	Soil	30-NOV-2004 09:25	1.0	0.09948			3		
042	334a042	SAMPLE	176153-032	96883	Soil	30-NOV-2004 12:27	1.0	0.09921	1		3		2:BUNKC:=5130.95
043	334a043	SAMPLE	176153-032	96883	Soil	30-NOV-2004 13:12	1.0	0.09921	1		3		2:BUNKC:=5046.82
044	334a044	CCV	mo			30-NOV-2004 13:40	1.0	1.0			3	5	
045	334a045	CCV	dsl			30-NOV-2004 14:09	1.0	1.0			3	7	
046	334a046	CCV	ker			30-NOV-2004 14:37	1.0	1.0			3	3	
047	334a047	CCV	jet			30-NOV-2004 15:06	1.0	1.0			3	8	
048	334a048	BLANK	QC274232 S	96967	Soil	30-NOV-2004 15:34	1.0	0.1003	7		3		
049	334a049	SAMPLE	176241-001 S	96967	Soil	30-NOV-2004 16:03	1.0	0.1001			3		
050	334a050	LCS	QC273891	96885	Water	30-NOV-2004 16:48	1.0	0.005			3		
051	334a051	LCS	QC273887	96884	Water	30-NOV-2004 17:16	1.0	0.005			3		
052	334a052	MSD	QC273893	96885	Water	30-NOV-2004 17:45	1.0	0.005			3		
053	334a053	MS	QC273892	96885	Water	30-NOV-2004 18:14	1.0	0.005			3		
054	334a054	MSD	QC273889	96884	Water	30-NOV-2004 18:42	1.0	0.005			3		
055	334a055	MS	QC273888	96884	Water	30-NOV-2004 19:11	1.0	0.005			3		
056	334a056	SAMPLE	176245-002	96910	Water	30-NOV-2004 19:40	25.0	0.005			3		
057	334a057	CCV	dsl			30-NOV-2004 20:08	1.0	1.0			3	4	
058	334a058	CCV	mo			30-NOV-2004 20:37	1.0	1.0			3	5	
059	334a059	X	ccv			30-NOV-2004 21:06	1.0					4	
060	334a060	CCV	jet			30-NOV-2004 21:35	1.0	1.0			3	9	
061	334a061	CCV	ker			30-NOV-2004 22:04	1.0	1.0			3	3	
062	334a062	CCV	jp5			30-NOV-2004 22:32	1.0	1.0			3	10	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
063	334a063	CCV	jp8			30-NOV-2004 23:01	1.0	1.0			3	11	
064	334a064	XLANK	QC274011 S	96917	Soil	30-NOV-2004 23:29	1.0	0.09929					
065	334a065	LCS	QC274012 S	96917	Soil	30-NOV-2004 23:58	1.0	0.1001			3		
066	334a066	MS	QC274013 S	96917	Soil	01-DEC-2004 00:26	1.0	0.09958		1	3		
067	334a067	MSD	QC274014 S	96917	Soil	01-DEC-2004 00:55	1.0	0.1002		1	3		
068	334a068	X	176248-003 S	96917	Soil	01-DEC-2004 01:23	1.0	0.09954			3		
069	334a069	SAMPLE	176153-030	96917	Soil	01-DEC-2004 01:51	1.0	0.0996			3		
070	334a070	SAMPLE	176153-037	96917	Soil	01-DEC-2004 02:20	1.0	0.1000			3		
071	334a071	SAMPLE	176051-002	96917	Soil	01-DEC-2004 02:48	1.0	0.1002			3		
072	334a072	MS	QC273980	96909	Water	01-DEC-2004 03:16	1.0	0.005		1	3		
073	334a073	MSD	QC273981	96909	Water	01-DEC-2004 03:45	1.0	0.005		1	3		
074	334a074	CCV	dsl			01-DEC-2004 04:13	1.0	1.0			3	6	
075	334a075	CCV	mo			01-DEC-2004 04:41	1.0	1.0			3	5	
076	334a076	X	ccv			01-DEC-2004 05:09	1.0					6	
077	334a077	CCV	ker			01-DEC-2004 05:38	1.0	1.0			3	3	
078	334a078	CCV	jp5			01-DEC-2004 06:06	1.0	1.0			3	10	
079	334a079	CCV	jp8			01-DEC-2004 06:34	1.0	1.0			3	11	
080	334a080	SAMPLE	176051-007	96917	Soil	01-DEC-2004 07:02	1.0	0.1002			3		
081	334a081	SAMPLE	176168-002	96967	Soil	01-DEC-2004 07:30	1.0	0.09948			3		
082	334a082	SAMPLE	176142-003	96917	Soil	01-DEC-2004 07:59	1.0	0.09946			3		
083	334a083	SAMPLE	176142-002	96917	Soil	01-DEC-2004 08:27	1.0	0.09974			3		
084	334a084	SAMPLE	176168-004	96967	Soil	01-DEC-2004 08:55	1.0	0.0995			3		
085	334a085	SAMPLE	176168-001	96967	Soil	01-DEC-2004 09:24	1.0	0.09913			3		
086	334a086	SAMPLE	176051-001	96917	Soil	01-DEC-2004 09:52	1.0	0.09909	1		3		9:BUNKC:=26164.9
087	334a087	SAMPLE	176051-009	96917	Soil	01-DEC-2004 10:21	1.0	0.1002			3		
088	334a088	SAMPLE	176051-004	96917	Soil	01-DEC-2004 10:49	1.0	0.1003			3		
090	334a090	CCV	dsl			01-DEC-2004 11:47	1.0	1.0			3	7	
091	334a091	CCV	mo			01-DEC-2004 13:55	1.0	1.0			3	5	
092	334a092	CCV	ker			01-DEC-2004 14:24	1.0	1.0			3	3	
093	334a093	CCV	jp5			01-DEC-2004 14:52	1.0	1.0			3	10	
094	334a094	CCV	jp8			01-DEC-2004 15:21	1.0	1.0			3	11	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
095	334a095	BLANK	QC273978 S	96909	Water	01-DEC-2004 15:49	1.0	0.005	5		3		
096	334a096	BLANK	QC274011 S	96917	Soil	01-DEC-2004 16:18	1.0	0.09929	5		3		
097	334a097	SAMPLE	176168-006	96967	Soil	01-DEC-2004 16:46	1.0	0.1001			3		
098	334a098	MSS	176216-005	96967	Soil	01-DEC-2004 17:14	20.0	0.0996	7		3		
099	334a099	SAMPLE	176153-014	96909	Water	01-DEC-2004 17:43	5.0	0.005			3		1:BUNKC:=5185.54
100	334a100	SAMPLE	176051-017	96917	Soil	01-DEC-2004 18:12	5.0	0.0999			3		
101	334a101	SAMPLE	176051-013	96917	Soil	01-DEC-2004 18:40	1.0	0.1004			3		
102	334a102	SAMPLE	176051-011	96917	Soil	01-DEC-2004 19:09	1.0	0.09911			3		
103	334a103	SAMPLE	176153-016	96909	Water	01-DEC-2004 19:37	3.0	0.005	1		3		3:BUNKC:=6301.89
104	334a104	SAMPLE	176051-019	96917	Soil	01-DEC-2004 20:06	10.0	0.1000			3		
105	334a105	CCV	dsl			01-DEC-2004 20:34	1.0	1.0			3	4	
106	334a106	CCV	mo			01-DEC-2004 21:03	1.0	1.0	1		3	5	
107	334a107	X	ccv			01-DEC-2004 21:32	1.0					4	
108	334a108	CCV	ker			01-DEC-2004 22:00	1.0	1.0			3	3	
109	334a109	CCV	jp5			01-DEC-2004 22:29	1.0	1.0			3	10	
110	334a110	CCV	jp8			01-DEC-2004 22:57	1.0	1.0			3	11	
111	334a111	SAMPLE	176142-005	96917	Soil	01-DEC-2004 23:26	1.0	0.09984			3		
112	334a112	SAMPLE	176142-004	96917	Soil	01-DEC-2004 23:54	1.0	0.09972			3		
113	334a113	SAMPLE	176168-007	96967	Soil	02-DEC-2004 00:23	10.0	0.1003			3		
114	334a114	SAMPLE	176051-015	96917	Soil	02-DEC-2004 00:51	1.0	0.09962			3		
115	334a115	X	ib			02-DEC-2004 01:20	1.0						
116	334a116	SAMPLE	176168-009	96967	Soil	02-DEC-2004 01:48	1.0	0.1001			3		
117	334a117	SAMPLE	176168-010	96967	Soil	02-DEC-2004 02:17	1.0	0.0995			3		
118	334a118	X	ib			02-DEC-2004 02:45	1.0						
119	334a119	CCV	dsl			02-DEC-2004 03:13	1.0	1.0			3	6	
120	334a120	CCV	mo			02-DEC-2004 03:41	1.0	1.0			3	5	
121	334a121	X	ccv			02-DEC-2004 04:10	1.0					6	
122	334a122	CCV	jp5			02-DEC-2004 04:38	1.0	1.0			3	10	
123	334a123	CCV	jp8			02-DEC-2004 05:06	1.0	1.0			3	11	
124	334a124	CCV	ker			02-DEC-2004 05:35	1.0	1.0			3	3	
125	334a125	SAMPLE	176242-009	96989	Water	02-DEC-2004 06:03	1.0	0.005			3		

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
126	334a126	SAMPLE	176217-001	96989	Water	02-DEC-2004 06:31	1.0	0.005		3		
127	334a127	SAMPLE	176244-003	96989	Water	02-DEC-2004 07:00	1.0	0.005		3		
128	334a128	SAMPLE	176142-006	96989	Water	02-DEC-2004 07:28	1.0	0.005		3		
129	334a129	SAMPLE	176244-002	96989	Water	02-DEC-2004 07:56	1.0	0.005		3		
130	334a130	SAMPLE	176144-003 S	96989	Water	02-DEC-2004 08:24	1.0	0.005		3		
131	334a131	SAMPLE	176144-004 S	96989	Water	02-DEC-2004 08:53	1.0	0.005		3		
132	334a132	SAMPLE	176144-005 S	96989	Water	02-DEC-2004 09:21	1.0	0.005		3		
133	334a133	SAMPLE	176244-001 S	96989	Water	02-DEC-2004 09:50	1.0	0.005		3		
134	334a134	CCV	dsl			02-DEC-2004 10:19	1.0	1.0		3	7	
135	334a135	CCV	mo			02-DEC-2004 10:47	1.0	1.0		3	5	
136	334a136	X	ccv			02-DEC-2004 11:16	1.0				7	
137	334a137	CCV	ker			02-DEC-2004 11:44	1.0	1.0		3	3	
138	334a138	SAMPLE	176256-001 S	96989	Water	02-DEC-2004 12:13	1.0	0.005		3		
139	334a139	BLANK	QC274457 S	97026	Soil	02-DEC-2004 12:41	1.0	0.09929	6	3		
140	334a140	SAMPLE	176210-007 S	97026	Soil	02-DEC-2004 13:38	1.0	0.09988		3		
141	334a141	SAMPLE	176215-003	96989	Water	02-DEC-2004 14:07	1.0	0.005		3		
142	334a142	SAMPLE	176215-005	96989	Water	02-DEC-2004 14:35	1.0	0.005		3		
143	334a143	SAMPLE	176215-001	96989	Water	02-DEC-2004 15:04	1.0	0.005		3		2:BUNKC:=6608.70
144	334a144	SAMPLE	176215-002	96989	Water	02-DEC-2004 15:33	1.0	0.005		3		
145	334a145	SAMPLE	176232-001	96989	Water	02-DEC-2004 16:01	1.0	0.005		3		4:BUNKC:=14380.8
146	334a146	SAMPLE	176168-008	96967	Soil	02-DEC-2004 16:29	1.0	0.09932		3		
147	334a147	SAMPLE	176168-005	96967	Soil	02-DEC-2004 16:58	10.0	0.09978		3		
148	334a148	CCV	dsl			02-DEC-2004 17:26	1.0	1.0		3	4	
149	334a149	CCV	mo			02-DEC-2004 17:55	1.0	1.0		3	5	
150	334a150	X	ccv			02-DEC-2004 18:24	1.0				4	
151	334a151	CCV	ker			02-DEC-2004 18:53	1.0	1.0		3	3	
152	334a152	MSS	176214-001	97063	Soil	02-DEC-2004 19:22	1.0	0.09976	6	3		
153	334a153	SAMPLE	176214-002	97063	Soil	02-DEC-2004 19:51	1.0	0.1002		3		
154	334a154	SAMPLE	176214-009	97063	Soil	02-DEC-2004 20:19	1.0	0.1004		3		
155	334a155	LCS	QC274458 S	97026	Soil	02-DEC-2004 20:48	1.0	0.1001		3		
156	334a156	MS	QC274605	97063	Soil	02-DEC-2004 21:17	1.0	0.09948		3		

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
157	334a157	MSD	QC274606	97063	Soil	02-DEC-2004 21:45	1.0	0.1001			3		
158	334a158	SAMPLE	176214-014	97063	Soil	02-DEC-2004 22:14	1.0	0.09942			3		
159	334a159	SAMPLE	176214-005	97063	Soil	02-DEC-2004 22:42	1.0	0.09911		1	3		
160	334a160	SAMPLE	176214-013	97063	Soil	02-DEC-2004 23:11	1.0	0.09968			3		
161	334a161	SAMPLE	176329-001	97063	Soil	02-DEC-2004 23:39	1.0	0.1000			3		
162	334a162	CCV	dsl			03-DEC-2004 00:08	1.0	1.0			3	12	
163	334a163	CCV	mo			03-DEC-2004 00:36	1.0	1.0			3	5	
164	334a164	X	ccv			03-DEC-2004 01:04	1.0					12	
165	334a165	SAMPLE	176214-015	97063	Soil	03-DEC-2004 01:33	1.0	0.09988			3		
166	334a166	SAMPLE	176214-004	97063	Soil	03-DEC-2004 02:01	1.0	0.09994			3		
167	334a167	SAMPLE	176329-002	97063	Soil	03-DEC-2004 02:29	1.0	0.09992			3		2:BUNKC:=6748.37
168	334a168	SAMPLE	176214-003	97063	Soil	03-DEC-2004 02:58	1.0	0.09998			3		
169	334a169	SAMPLE	176299-002 S	97063	Soil	03-DEC-2004 03:26	2.0	0.09907			3		
170	334a170	SAMPLE	176214-012	97063	Soil	03-DEC-2004 03:54	20.0	0.09952			3		
171	334a171	SAMPLE	176214-010	97063	Soil	03-DEC-2004 04:23	1.0	0.09998			3		
172	334a172	SAMPLE	176214-011	97063	Soil	03-DEC-2004 04:51	1.0	0.09934			3		
173	334a173	SAMPLE	176214-006	97063	Soil	03-DEC-2004 05:20	3.0	0.1003			3		
174	334a174	SAMPLE	176214-008	97063	Soil	03-DEC-2004 05:48	3.0	0.1002			3		
175	334a175	CCV	dsl			03-DEC-2004 06:16	1.0	1.0			3	7	
176	334a176	CCV	mo			03-DEC-2004 06:45	1.0	1.0			3	5	
177	334a177	X	ccv			03-DEC-2004 07:13	1.0					7	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144485974 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 02-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	337b001	X	primer			02-DEC-2004 11:34	1.0						
002	337b002	X	ib			02-DEC-2004 12:02	1.0						
003	337b003	CCV	dsl			02-DEC-2004 12:31	1.0	1.0			3	1	
004	337b004	CCV	mo			02-DEC-2004 12:59	1.0	1.0			3	2	
005	337b005	MSD	QC274014 S	96917	Soil	02-DEC-2004 13:43	1.0	0.1002			3		
006	337b006	BS	QC274551	97049	Miscel	02-DEC-2004 14:11	1.0	0.05	1		3		1:HXCS=96.4454
007	337b007	BSD	QC274552	97049	Miscel	02-DEC-2004 14:39	1.0	0.05	1		3		1:HXCS=110.820
008	337b008	BLANK	QC274550	97049	Miscel	02-DEC-2004 15:25	1.0	0.1000	10		3		
009	337b009	SAMPLE	176297-002 S	97026	Soil	02-DEC-2004 15:53	1.0	0.1005			3		
010	337b010	SAMPLE	176297-003 S	97026	Soil	02-DEC-2004 16:21	1.0	0.1001			3		
011	337b011	SAMPLE	176297-001 S	97026	Soil	02-DEC-2004 16:49	1.0	0.09972			3		
012	337b012	SAMPLE	176188-007	96994	Soil	02-DEC-2004 17:17	1.0	0.09966			3		
013	337b013	SAMPLE	176188-003	96994	Soil	02-DEC-2004 17:45	1.0	0.1001			3		
014	337b014	SAMPLE	176185-001	97026	Soil	02-DEC-2004 18:14	1.0	0.09948			3		
015	337b015	X	ib			02-DEC-2004 18:42	1.0						
016	337b016	CCV	dsl			02-DEC-2004 19:11	1.0	1.0			3	3	
017	337b017	CCV	mo			02-DEC-2004 19:39	1.0	1.0			3	2	
018	337b018	X	dsl			02-DEC-2004 20:07	1.0	1.0			3	3	
019	337b019	CCV	ker			02-DEC-2004 20:35	1.0	1.0			3	4	
020	337b020	SAMPLE	176256-002 S	96989	Water	02-DEC-2004 21:04	1.0	0.005			3		
021	337b021	SAMPLE	176256-003 S	96989	Water	02-DEC-2004 21:32	1.0	0.005			3		
022	337b022	SAMPLE	176242-001	97026	Soil	02-DEC-2004 22:00	1.0	0.09923			3		
023	337b023	SAMPLE	176242-002	97026	Soil	02-DEC-2004 22:28	1.0	0.09917			3		
024	337b024	MSS	176242-004	97026	Soil	02-DEC-2004 22:56	1.0	0.0994	9		3		
025	337b025	SAMPLE	176242-005	97026	Soil	02-DEC-2004 23:24	1.0	0.0996			3		5:BUNKC:=10125.0
026	337b026	SAMPLE	176242-006	97026	Soil	02-DEC-2004 23:51	1.0	0.1002	1		3		9:BUNKC:=12349.3
027	337b027	SAMPLE	176242-007	97026	Soil	03-DEC-2004 00:19	1.0	0.09938			3		
028	337b028	SAMPLE	176242-003	97026	Soil	03-DEC-2004 00:47	1.0	0.09948			3		1:BUNKC:=7489.72
029	337b029	SAMPLE	176160-001	97049	Miscel	03-DEC-2004 01:15	200.0	0.6689	1		3		5:BUNKC:=11994.3
030	337b030	CCV	dsl			03-DEC-2004 01:42	1.0	1.0			3	5	
031	337b031	CCV	mo			03-DEC-2004 02:10	1.0	1.0			3	2	

Stds used: 1=04WS2215 2=04WS2195 3=04WS2207 4=04WS2027 5=04WS2258

SEQUENCE SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144485974 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 02-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	337b032	X	ccv			03-DEC-2004 02:38	1.0					5
033	337b033	CCV	ker			03-DEC-2004 03:05	1.0	1.0			3	4
034	337b034	SAMPLE	176153-015	96909	Water	03-DEC-2004 03:33	50.0	0.005			3	1:BUNKC:=8538.48
035	337b035	SAMPLE	176242-010	97026	Soil	03-DEC-2004 04:01	1.0	0.1002			3	
036	337b036	SAMPLE	176217-002	97026	Soil	03-DEC-2004 04:28	1.0	0.0997			3	
037	337b037	SAMPLE	176217-003	97026	Soil	03-DEC-2004 04:56	1.0	0.09956			3	
038	337b038	SAMPLE	176217-006	97026	Soil	03-DEC-2004 05:24	1.0	0.0997			3	
039	337b039	SAMPLE	176217-008	97026	Soil	03-DEC-2004 05:51	1.0	0.1002			3	
040	337b040	SAMPLE	176217-004	97026	Soil	03-DEC-2004 06:19	1.0	0.1001			3	
041	337b041	SAMPLE	176217-007	97026	Soil	03-DEC-2004 06:47	1.0	0.09915	2		3	8:BUNKC:=20324.3
042	337b042	MS	QC274459	97026	Soil	03-DEC-2004 07:14	1.0	0.09954			3	
043	337b043	MSD	QC274460	97026	Soil	03-DEC-2004 07:42	1.0	0.1001		1	3	
044	337b044	CCV	dsl			03-DEC-2004 08:10	1.0	1.0			3	1
045	337b045	CCV	mo			03-DEC-2004 08:38	1.0	1.0			3	2
046	337b046	X	ccv			03-DEC-2004 09:05	1.0					1
047	337b047	CCV	ker			03-DEC-2004 09:33	1.0	1.0			3	4

Stds used: 1=04WS2215 2=04WS2195 3=04WS2207 4=04WS2027 5=04WS2258

REPORTING SUMMARY FOR 176210 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
176210-007	GC17A	12/02/04 13:38	1.0	+	+	+	
QC274457	GC17A	12/02/04 12:41	1.0	+	+	+	
QC274457	GC13B	12/08/04 20:01	1.0				
QC274458	GC11A	12/02/04 12:44	1.0				
QC274458	GC17A	12/02/04 20:48	1.0	+		+	
QC274459	GC13B	12/03/04 07:14	1.0	+		+	
QC274460	GC13B	12/03/04 07:42	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 01-DEC-2004 18:57

Batch Number : 97026
Date Extracted: 01-DEC-2004
Extracted by : Stephen Koster
Prep Method : SHAKER TABLE

Analysis : N/A
Bgroup : TEH
Units : g
Clean-up :

Spike #1 ID : 04WS2163D
Spike #2 ID : 04WS2222B
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176185-001			LFR Levine Fricke	Soil	50.26	g	5	0.099483	1		1	0		TEH		
176210-007			Treadwell & Rollo	Soil	50.06	g	5	0.099880	1		1	0		TEHM	3630C	sg
176217-002			URS Corporation	Soil	50.15	g	5	0.099701	1		1	0		TEHM		
176217-003			URS Corporation	Soil	50.22	g	5	0.099562	1		1	0		TEHM		
176217-004			URS Corporation	Soil	49.94	g	5	0.100120	1		1	0		TEHM		
176217-006			URS Corporation	Soil	50.15	g	5	0.099701	1		1	0		TEHM		
176217-007			URS Corporation	Soil	50.43	g	5	0.099147	1		1	0		TEHM		
176217-008			URS Corporation	Soil	49.91	g	5	0.100180	1		1	0		TEHM		
176242-001			URS Corporation	Soil	50.39	g	5	0.099226	1		1	0		TEHM		
176242-002			URS Corporation	Soil	50.42	g	5	0.099167	1		1	0		TEHM		
176242-003			URS Corporation	Soil	50.26	g	5	0.099483	1		1	0		TEHM		
176242-004			URS Corporation	Soil	50.3	g	5	0.099404	1		1	0		TEHM		mss
176242-005			URS Corporation	Soil	50.2	g	5	0.099602	1		1	0		TEHM		
176242-006			URS Corporation	Soil	49.92	g	5	0.100160	1		1	0		TEHM		
176242-007			URS Corporation	Soil	50.31	g	5	0.099384	1		1	0		TEHM		
176242-010			URS Corporation	Soil	49.89	g	5	0.100220	1		1	0		TEHM		
176297-001			URS Corporation	Soil	50.14	g	5	0.099721	1		1	0		TEHM	3630C	sg
176297-002			URS Corporation	Soil	49.77	g	5	0.100462	1		1	0		TEHM	3630C	sg
176297-003			URS Corporation	Soil	49.95	g	5	0.100100	1		1	0		TEHM	3630C	sg
176302-005			Port of Oakland	Soil	49.84	g	5	0.100321	1		1	0		TEHM	3630C	sg
QC274457	MB			Soil	50.36	g	5	0.099285	1		1	0		TEH	3630C	sg
QC274458	LCS			Soil	49.97	g	5	0.100060	1		1	1		TEH	3630C	sg
QC274459	MS	of 176242-004		Soil	50.23	g	5	0.099542	1		1	1		TEH		
QC274460	MSD	of 176242-004		Soil	49.94	g	5	0.100120	1		1	1		TEH		

Prep Chemist: JRD for SFK 12/1/04 Reviewed By: [signature] Date: 12/01/04

Relinquished By: [signature] Received By: [signature] Date: 12-2-04.

Curtis & Tompkins, Ltd.

TEH SOIL PREP LOG

BK 1990

Page 91

LIMS Batch No: 97026
LIMS Analysis: TEH/M
Extracted by: SPL
Date Extracted: 12/01/04

Extraction Method:
- ☒ Mechanical Shaker Table
- ☐ EPA 3550 Sonication
- ☐ Other _____

Cleanup Method (if necessary):
- ☐ EPA 3630 Silica Gel
- ☐ Other _____

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	MB QC-274457	50.36	5.0	X	
	LCS 274458	49.97		X	
	MS 274459	50.23			1176242-004
	MSD 274460	49.94			
5	1176185-001	50.26			
	1176216-007	50.06		X	
	1176217-002	50.15			
	-003	50.22			
	-004	49.94			
10	-006	50.15			
	-007	50.43			
	-008	49.91			
	1176242-001	50.39			
	-002	50.42			
15	-003	50.26			
	-004	50.30			MS,S
	-005	50.70			
	-006	49.92			
	-007	50.21			
20	-010	49.89			
	1176277-001	50.14		X	
	-002	49.77		X	
	-003	49.95		X	
	1176306-003	49.97		X	
			12/01/04		

	Mfg & Lot # / LIMS # / Time / Date/Initials
Sand weighted out for QC samples	02-9402847 / SPL 12/01/04
Samples were dried with CH2Cl2 rinsed granular Na2SO4	EMM 3S933
2.0 mL of TEH SURR surrogate solution was added to all samples	EMM 32600
1.0 mL of TEH SI matrix spiking solution was added to all spikes	[illegible]
2.75 mL of 1:1 (CH2Cl2:Acetone) was added to all	CH_2Cl_2 [illegible]
	Acetone [illegible]
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at	1100
taken off shaker table at	1300
Extracts filtered through baked, rinsed, powdered Na_2SO_4	EMM 413 S933 / 12/01/04
Concentrated to volumes as noted above	

Continued from page ____
Continued on page ____

Extraction Chemist / Date

Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** EPA 3630C

Prep Chemist: SCC
Cleanup Date: 12/01/04

Benchbook # **BK 2028**
Page 33

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC274457	97026	1.0	1.0	
LCS ↓ 8	↓	↓	↓	
176210-007				
176297-001				
↓ -002				
↓ -003				
176302-005	↓	↓	↓	

SCC 12/01/04

Mfg. & Lot # / Time / Program — Initials / Date

☐ Extracts were cleaned up using C&T assembled 10 g columns — SCC 12/01/04
☐ Extracts were cleaned up using ____ g cartridges — VTA
Extracts were eluted with 40 mL CH2Cl2 — EM 440 75
Concentrated to volumes as noted above

SCC 12/01/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jennifer Dellinger 12/1/04
Reviewed by / Date

Project Soil Allowot

Continued from Page

BK2032

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176168-005A		8100	
-006			
-011			
-012			
-013			
-014			
-015			
-016			
176210-001A	15.08	PCB	
-002	14.92		
-003	14.80		
-004	15.08		
-005	15.10		
-006	14.80		
-007	15.20		
-008	14.82		
-009	15.13		
-010	15.14		
-011	14.80		
176210-001A	14.90	8081	
-002	14.94		
-003	15.19		
-004	14.98		
-005	15.18		
-006	15.07		
-007	14.99		
-008	15.11		
-009	14.96		
-010	15.07		
-011	14.82		
176210-007A	30.29	8270	
-007	50.06	TEHM	

Continued on Page

Read and Understood By

Michelle Curtis
Signed

11/22/04
Date

Project Soil Aliquot BK2032

Continued from Page

Sample Id	Weight (g)	Analysis	Comments
176051-001A	50.46	TEH	
-002B	49.92		
-004A	49.87		
-006A	49.93		
-007B	49.88		
-009B	49.88		
-011A	50.45		
-013A	49.82		
-015A	50.19		
-017B	50.05		
-019A	49.98		
176185-001A	50.26	TEH	
-001	29.82	8270	
-001	5.18	8081	
-001	15.17	PCB	
176142-001A	50.20	TEH	4, comp A-D
-002	50.13		
-003	50.27		
-004	50.14		
-005	50.08		
176217-002A	50.15	TEHM	Kerosene
-003	50.22		
-004	49.94		
-006	50.15		
-007	50.43		
-008	49.91		
176089-001A	50.30	TEH	JET
-002	50.42		
-004	50.46		
-005	50.05		
-009	49.73		
-010	49.97		
-011	50.42		
-012	49.98		
-013	50.09		

Continued on Page

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11/23/04 — Date

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Date

Project: Soil Aliquot 15K2032

Continued from Page

Sample ID	Weight (g)	Analysis	Comments
176248-001A	15.05	8081	MSS
-002	15.18		
-004	15.20		
-005	15.00		
176248-001A	14.78	PCB	
-002	14.88		
-004	15.16		
-005	15.01		
MS	14.80	8081	176248-001A
MSD	14.95		
176241-001A	15.01	PCB	
176185-001A	15.17	PCB	
-001A	15.18	8081	
176185-001A	29.82	8270	
-001A	50.26	TEH	
176241-001A	49.93	TEH	
176242-001A	50.39		
-002	50.42		
-003	50.26		MSS
-004	50.30		
-005	50.20		
-006	49.92		
-007	50.31		
-008	49.89		
MS -009	50.23		176242-004A
MSD	49.94		
CCS	49.97		EM4402842A
MB	50.36		

Continued on Page

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Project: Soil Aliquot BK2032

Continued from Page

Sample Id	Weight (g)	Analysis	Comments
176289-001A	30.30	8270	aliquot 175913-004
176289-001A	30.36	8270-SIM	
176220-001A	15.16	8081	
-002	14.93		
-003	14.82		
-004	15.23		
-005	15.00		
176220-001A	15.04	PCB	Aroclors
-002	15.24		
-003	14.86		
-004	15.07		
-005	15.06		
176248-003A	15.14	Rest	
176219-001A		TEH	
-002			
-003			
-004			
-005			
-006			
-007			
176219-001A		8100	
-002			
-003			
-004			
-005			
-006			
-007			
MS			
MSD			
~~-005~~ MSD		TEH	
MS			
176302-005	49.84	TEHM	1. COMP A-H
176297-001	15.01	8081	4. COMP A-D
-002	15.03		
-003	15.16		

Continued on Page

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Michelle Curtis 11/30/04

Signed Date Signed Date

BK 2032

Project: Soil Aliquot

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176298-001	30.08	8100	4, COMP A-D
-002	30.00	↓	
176298-001	14.89	8081	
-002	15.23	↓	
176298-001	15.16	PCB	
-002	15.19	↓	
176298-001	49.93	TEHM	Silicagel
-002	50.11	↓	↓
176297-001	15.13	PCB	
-002	14.90	↓	
-003	15.05		
176297-001	50.14	TEHM	Silicagel
-002	49.77	↓	↓
-003	49.95		
176297-001	30.06	8100	
-002	30.00	↓	
-003	30.05		
176299-001	14.80	PCB	
-002	15.16	↓	
176299-001	15.18	8081	
-002	15.09	↓	
176299-001	30.41	8100	
-002	29.84	↓	
176299-001	50.02	TEHM	Silicagel
-002	50.47	↓	↓

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Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil SHAKER TABLE

Analyte	Units	GC11A	GC13B	GC15B	GC17A
Diesel C10-C20	mg/Kg		10/20/04 0.30	10/20/04 0.29	10/20/04 0.20
Diesel C10-C22	mg/Kg	10/26/04 0.57	10/20/04 0.30	10/20/04 0.30	10/20/04 0.19
Diesel C10-C24	mg/Kg	10/26/04 0.55	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C10-C28	mg/Kg	10/26/04 0.68	10/20/04 0.32	10/20/04 0.30	10/20/04 0.40
Diesel C12-C28	mg/Kg		10/20/04 0.32		
Diesel C12-C36	mg/Kg	10/26/04 0.60	10/20/04 0.32		
Diesel C12-C32	mg/Kg			10/20/04 0.31	10/20/04 0.50
Diesel C12-C24	mg/Kg	10/26/04 0.42	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C12-C22	mg/Kg	10/26/04 0.44	10/20/04 0.31	10/20/04 0.30	10/20/04 0.20
Motor Oil C20-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.68	03/30/04 0.32
Motor Oil C22-C36	mg/Kg	04/06/04 2.4	04/10/04 0.54	04/10/04 0.71	03/30/04 0.32
Motor Oil C24-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.80	03/30/04 0.30
Motor Oil C22-C32	mg/Kg	04/06/04 2.6	04/10/04 0.64	04/10/04 0.54	03/30/04 0.31
Hexacosane	mg/Kg	09/20/03 0.17	08/15/03 0.11	08/16/03 0.069	09/05/03 0.17

VOLATILE ORGANIC COMPOUNDS

WATER

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB112204A	Batch#:	96805
Lab ID:	176210-012	Sampled:	11/22/04
Matrix:	Water	Received:	11/22/04
Units:	ug/L	Analyzed:	11/23/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB112204A	Batch#:	96805
Lab ID:	176210-012	Sampled:	11/22/04
Matrix:	Water	Received:	11/22/04
Units:	ug/L	Analyzed:	11/23/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	105	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	98	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273531	Batch#:	96805
Matrix:	Water	Analyzed:	11/23/04
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273531	Batch#:	96805
Matrix:	Water	Analyzed:	11/23/04
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	110	80-120
Toluene-d8	92	80-120
Bromofluorobenzene	105	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC273549	Batch#:	96805
Matrix:	Water	Analyzed:	11/23/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	37.50	31.92	85	75-120
Benzene	37.50	35.66	95	79-120
Trichloroethene	37.50	35.31	94	79-120
Toluene	37.50	34.13	91	80-120
Chlorobenzene	37.50	37.35	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	110	80-120
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-122

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	96805
MSS Lab ID:	176174-003	Sampled:	11/18/04
Matrix:	Water	Received:	11/19/04
Units:	ug/L	Analyzed:	11/23/04
Diln Fac:	1.000		

Type: MS Lab ID: QC273547

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1500	50.00	44.32	89	67-120
Benzene	<0.05600	50.00	45.15	90	77-120
Trichloroethene	<0.07900	50.00	44.90	90	69-120
Toluene	<0.1100	50.00	49.21	98	72-120
Chlorobenzene	<0.05300	50.00	45.33	91	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	110	80-120
Toluene-d8	105	80-120
Bromofluorobenzene	100	80-122

Type: MSD Lab ID: QC273548

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	43.53	87	67-120	2	20
Benzene	50.00	43.75	88	77-120	3	20
Trichloroethene	50.00	41.03	82	69-120	9	20
Toluene	50.00	42.16	84	72-120	15	20
Chlorobenzene	50.00	43.41	87	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	108	80-120
Toluene-d8	95	80-120
Bromofluorobenzene	102	80-122

RPD= Relative Percent Difference

Screw ical

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

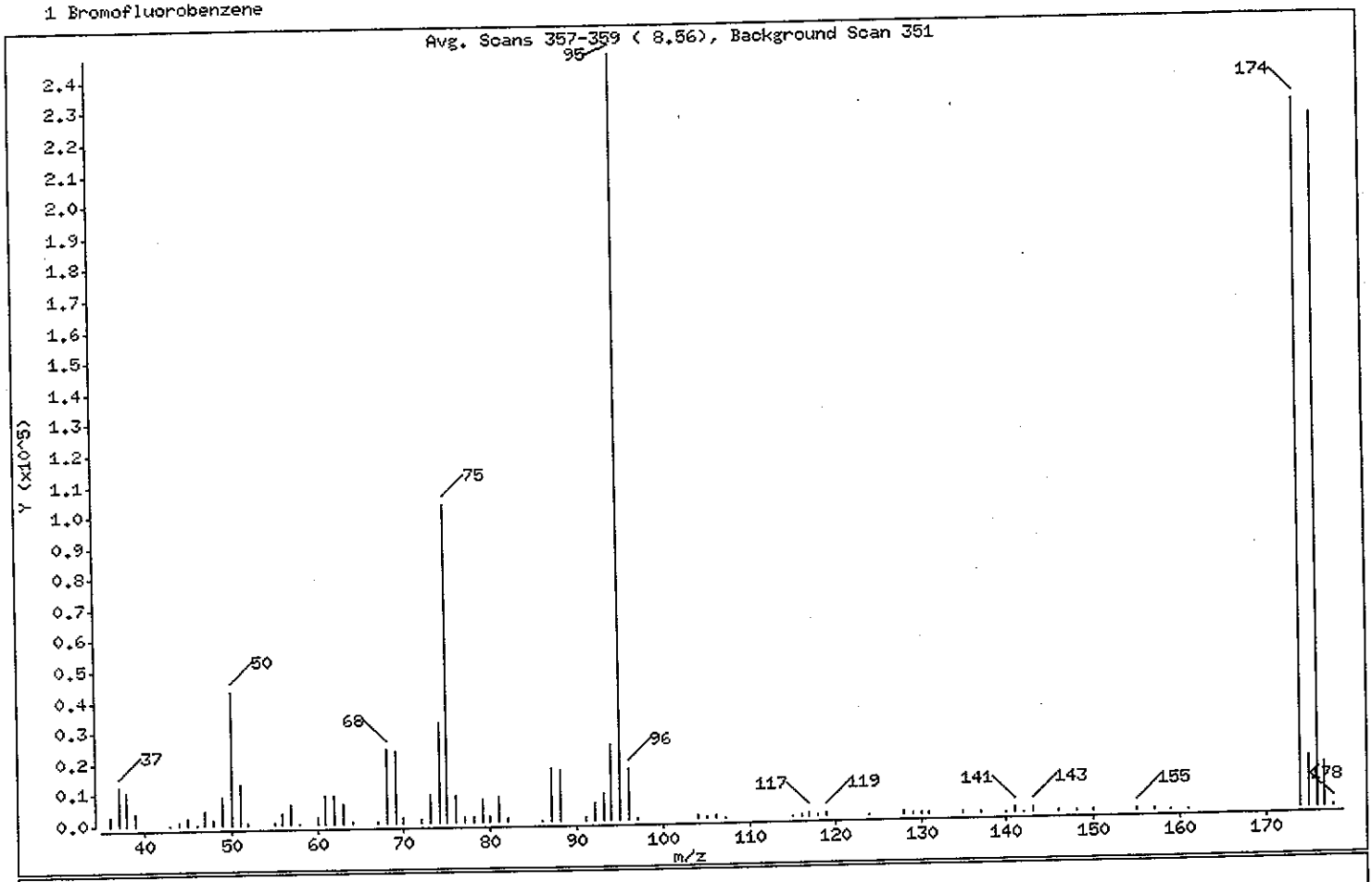
Column phase:

1 Bromofluorobenzene

Instrument: MSVOA09.i

Operator: BO

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	41.55
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	92.38
175	5.00 - 9.00% of mass 174	6.66 (7.21)
176	95.01 - 100.99% of mass 174	90.67 (98.15)
177	5.00 - 9.00% of mass 176	5.78 (6.38)

pr 11/22/04

11/22/04

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112304.b\IKN02.D

Date : 23-NOV-2004 09:27

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

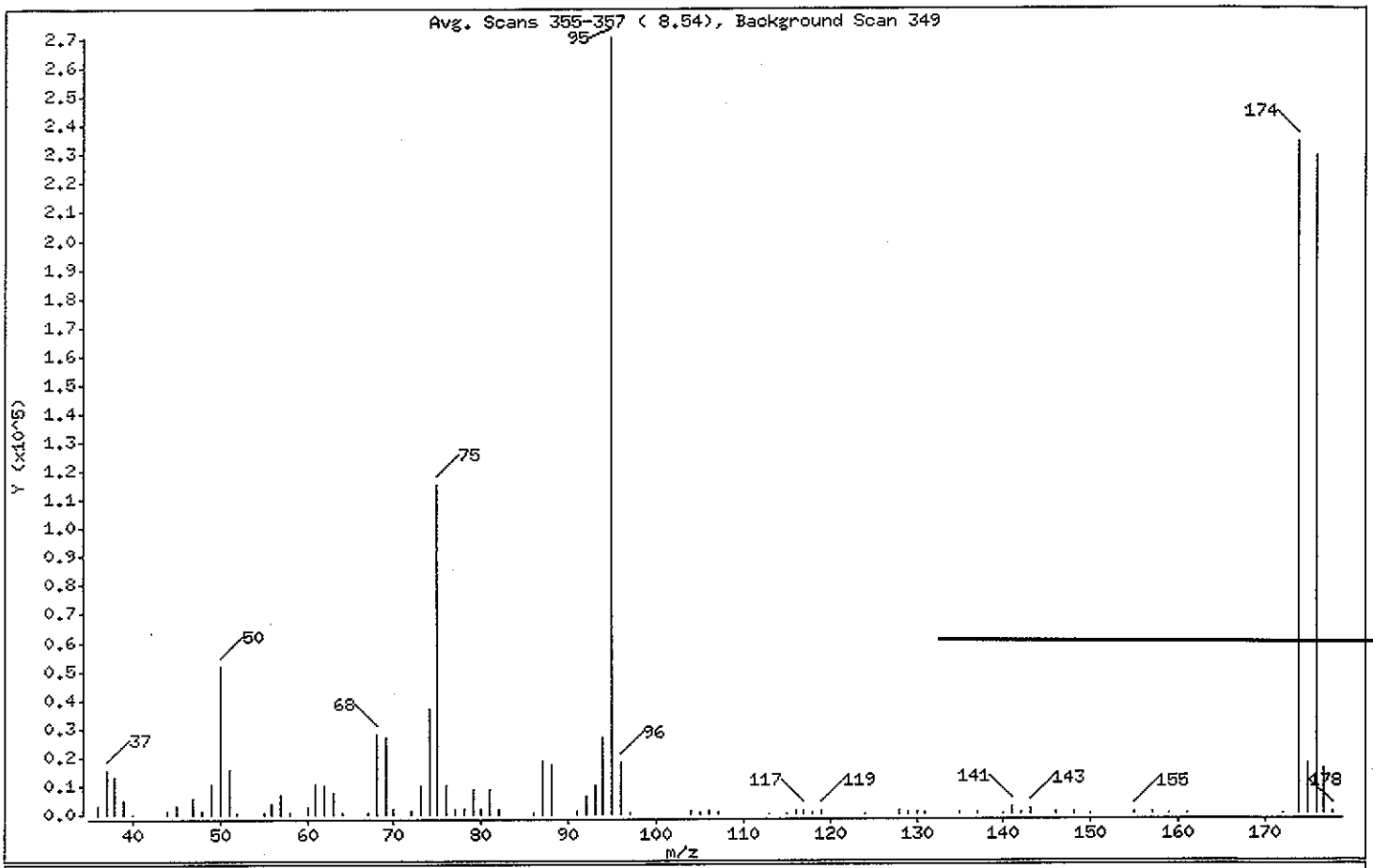
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.98
75	30.00 - 60.00% of mass 95	42.42
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	86.33
175	5.00 - 9.00% of mass 174	6.36 (7.36)
176	95.01 - 100.99% of mass 174	84.68 (98.09)
177	5.00 - 9.00% of mass 176	5.71 (6.74)

Rev 11/23/04

11/23/04

8260W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	ikl07	484470109007	0.5/1PPB	21-NOV-2004 17:13	04SS393 (500000X), 04WS2167A (500000X), 04WS2204A (1000000X), 04WS2096 (5000X)
2	ikl08	484470109008	5PPB	21-NOV-2004 17:48	04SS393 (100000X), 04WS2167A (50000X), 04WS2204A (200000X), 04WS2096 (5000X)
3	ikl09	484470109009	10PPB	21-NOV-2004 18:22	04SS393 (50000X), 04WS2167A (25000X), 04WS2204A (100000X), 04WS2096 (5000X)
4	ikl10	484470109010	20PPB	21-NOV-2004 18:57	04SS393 (25000X), 04WS2167A (12500X), 04WS2204A (50000X), 04WS2096 (5000X)
5	ikl11	484470109011	50PPB	21-NOV-2004 19:31	04SS393 (10000X), 04WS2167A (5000X), 04WS2204A (20000X), 04WS2096 (5000X)
6	ikl12	484470109012	75PPB	21-NOV-2004 20:06	04SS393 (6667X), 04WS2167A (3333X), 04WS2204A (13333X), 04WS2096 (5000X)
7	ikl13	484470109013	100PPB	21-NOV-2004 20:40	04SS393 (5000X), 04WS2167A (2500X), 04WS2204A (10000X), 04WS2096 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.3466	0.4055	0.3536	0.4576	0.4435	0.4307	0.4051	AVRG	R		2.462567		ug/L	0.4061	11	0.0500	0.99	15	
Chloromethane	0.5484m	0.5383	0.5128	0.5055	0.4534	0.4412	0.4005	AVRG	R		2.058765		ug/L	0.4857	11	0.1000	0.99	15	
Vinyl Chloride	0.3204	0.3416	0.3027	0.3113	0.2726	0.2460		AVRG	R		3.343299		ug/L	0.2991	12	0.0500	0.99	15	
Bromomethane	0.2248	0.1629m	0.1701	0.1829	0.1881	0.2265	0.2287	AVRG	R		5.057831		ug/L	0.1977	14	0.0500	0.99	15	
Chloroethane	0.2144	0.2338	0.2102m	0.2281	0.2004	0.2078	0.1738	AVRG	R		4.766932		ug/L	0.2098	9	0.0500	0.99	15	
Trichlorofluoromethane	0.5056	0.5896	0.5235	0.6032	0.6174	0.6042	0.5522	AVRG	R		1.751893		ug/L	0.5708	8	0.0500	0.99	15	
Acetone		0.1415	0.1519	0.1338	0.1205	0.1244	0.1199	AVRG	R		7.575668		ug/L	0.1320	10	0.0500	0.99	15	
Freon 113	0.2973	0.3511	0.3150	0.3626	0.3517	0.3895	0.3752	AVRG	R		2.865867		ug/L	0.3489	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3545	0.3681	0.3680	0.3601	0.3705	0.3995	0.3653	AVRG	R		2.706916		ug/L	0.3694	4	0.0500	0.99	15	
Methylene Chloride		0.5611	0.5690	0.5399	0.4949	0.4795	0.4396	AVRG	R		1.945558		ug/L	0.5140	10	0.0500	0.99	15	
Carbon Disulfide	1.7320	1.5661	1.5273	1.5514	1.4552	1.5154	1.4206	AVRG	R		0.650073		ug/L	1.5383	6	0.0500	0.99	15	
MTBE	0.9565	0.9604	1.0219	0.9856	0.9688	0.9433	0.9221	AVRG	R		1.035712		ug/L	0.9655	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4464	0.4668	0.4604	0.4343	0.4291	0.4312	0.4157	AVRG	R		2.269791		ug/L	0.4406	4	0.0500	0.99	15	
Vinyl Acetate		0.8660	0.9479	0.9904	0.9251	0.9341	0.8089	AVRG	R		1.096411		ug/L	0.9121	7	0.0500	0.99	15	
1,1-Dichloroethane	0.9195	0.8731	0.9210	0.8711	0.8264	0.8101	0.7369	AVRG	R		1.174847		ug/L	0.8512	8	0.1000	0.99	15	
2-Butanone		0.2068	0.2261	0.2153	0.2074	0.2185	0.1955	AVRG	R		4.726073		ug/L	0.2116	5	0.0500	0.99	15	
2,2-Dichloropropane	0.5245	0.5501	0.5178	0.5536	0.5089	0.5043	0.4834	AVRG	R		1.921712		ug/L	0.5204	5	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.5041	0.5181	0.5111	0.5314	0.4743	0.4600	0.4470	AVRG	R		2.031355		ug/L	0.4923	6	0.0500	0.99	15	

Flags used: m=manual integration for incomplete integration in Target
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

* ICAL - OK
- VC to 75ppb
- 3rd ion missing for 1112PCE, BrFm @ 0.5 ppb
* ICV - Fr12↓, 2CLEVE↓, USALG - CMe↓, CS2↓

11/22/04

8260 W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09
Calnum: 484470109001 Name: I9M826W Type: WATER Reviewed By:
Date: 21-NOV-2004 17:13 Inj Vol (uL): 50

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.9907	0.8460	0.8917	0.8643	0.8197	0.7833	0.7296	AVRG	R		1.181367		ug/L	0.8465	10	0.0500	0.99	15	
Bromochloromethane	0.3065	0.2985	0.3178	0.3067	0.3046	0.2945	0.2876	AVRG	R		3.308051		ug/L	0.3023	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.5242	0.5224	0.5238	0.5587	0.5323	0.5539	0.5280	AVRG	R		1.870007		ug/L	0.5348	3	0.0500	0.99	15	
1,1-Dichloropropene	0.3357	0.3581	0.3574	0.3372	0.3733	0.3941	0.3698	AVRG	R		2.771765		ug/L	0.3608	6	0.0500	0.99	15	
Carbon Tetrachloride	0.2723	0.3038	0.3023	0.3101	0.3213	0.3616	0.3459	AVRG	R		3.157021		ug/L	0.3168	9	0.0500	0.99	15	
1,2-Dichloroethane	0.3168	0.3641	0.3794	0.3621	0.3633	0.3601	0.3499	AVRG	R		2.804995		ug/L	0.3565	5	0.0500	0.99	15	
Benzene	1.0877	1.1446	1.1555	0.9874	1.0001	1.0415	1.0109	AVRG	R		0.942433		ug/L	1.0611	7	0.0500	0.99	15	
Trichloroethene	0.3072	0.3218	0.3143	0.3112	0.3000	0.3282	0.3042	AVRG	R		3.200784		ug/L	0.3124	3	0.0500	0.99	15	
1,2-Dichloropropane	0.3317	0.3300	0.3432	0.3162	0.3241	0.3281	0.3185	AVRG	R		3.054457		ug/L	0.3274	3	0.0500	0.99	15	
Bromodichloromethane	0.3630	0.4034	0.4243	0.4013	0.3967	0.4170	0.3897	AVRG	R		2.504170		ug/L	0.3993	5	0.0500	0.99	15	
Dibromomethane	0.2540	0.2610	0.2754	0.2596	0.2733	0.2791	0.2619	AVRG	R		3.754973		ug/L	0.2663	4	0.0500	0.99	15	
2-Chloroethylvinylether		0.1921	0.2233	0.2062	0.2079	0.2298	0.2211	AVRG	R		4.686068		ug/L	0.2134	7	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.2699	0.3085	0.2956	0.3043	0.2988	0.2836	AVRG	R		3.407925		ug/L	0.2934	5	0.0500	0.99	15	
Tetramethyl THF	0.5536	0.6152	0.6232	0.5813	0.6045	0.6330	0.5561	AVRG	R		1.679959		ug/L	0.5953	5	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4405	0.4796	0.5050	0.4627	0.4942	0.5076	0.4632	AVRG	R		2.087857		ug/L	0.4790	5	0.0500	0.99	15	
Toluene	0.5994	0.6456	0.6540	0.5870	0.5664	0.6386	0.5759	AVRG	R		1.640569		ug/L	0.6095	6	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.3536	0.3930	0.4180	0.4129	0.4241	0.4395	0.4140	AVRG	R		2.451788		ug/L	0.4079	7	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1502	0.1732	0.1785	0.1681	0.1691	0.1728	0.1670	AVRG	R		5.937881		ug/L	0.1684	5	0.0500	0.99	15	
2-Hexanone		0.2283	0.2414	0.2373	0.2437	0.2361	0.2492	AVRG	R		4.178095		ug/L	0.2393	3	0.0500	0.99	15	
1,3-Dichloropropane	0.5071	0.5642	0.5605	0.5175	0.5426	0.5067	0.5438	AVRG	R		1.870426		ug/L	0.5346	5	0.0500	0.99	15	
Tetrachloroethene	0.3265	0.3480	0.3166	0.3222	0.3559	0.3604	0.3508	AVRG	R		2.940669		ug/L	0.3401	5	0.0500	0.99	15	
Dibromochloromethane	0.3884	0.4493	0.4800	0.4390	0.4407	0.4657	0.4735	AVRG	R		2.231663		ug/L	0.4481	7	0.0500	0.99	15	
1,2-Dibromoethane	0.3035	0.3378	0.3545	0.3309	0.3492	0.3527	0.3398	AVRG	R		2.955571		ug/L	0.3383	5	0.0500	0.99	15	
Chlorobenzene	0.9385	0.9416	1.0128	0.8793	0.8825	0.8822	0.9181	AVRG	R		1.084424		ug/L	0.9221	5	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3190	0.3485	0.3530	0.3274	0.3480	0.3346	0.3514	AVRG	R		2.938637		ug/L	0.3403	4	0.0500	0.99	15	
Ethylbenzene	1.4301	1.5492	1.3938	1.3886	1.4299	1.4249	1.4994	AVRG	R		0.691979		ug/L	1.4451	4	0.0500	0.99	15	
m,p-Xylenes	0.5028	0.5501	0.5368	0.5435	0.5305	0.5225	0.4894	AVRG	R		1.904483		ug/L	0.5251	4	0.0500	0.99	15	
o-Xylene	0.4605	0.5379	0.5327	0.5150	0.5362	0.5203	0.5009	AVRG	R		1.942542		ug/L	0.5148	5	0.0500	0.99	15	
Styrene	0.7518	0.8984	0.9149	0.8701	0.9065	0.9272	0.8768	AVRG	R		1.139001		ug/L	0.8780	7	0.0500	0.99	15	
Bromoform	0.2995	0.2967	0.3256	0.2983	0.3318	0.3353	0.3490	AVRG	R		3.130149		ug/L	0.3195	7	0.1000	0.99	15	
Isopropylbenzene	2.2208	2.4894	2.6693	2.6839	2.8030	2.6082	2.5232	AVRG	R		0.388938		ug/L	2.5711	7	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

826OW ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.9305	0.9460	1.1377	1.0030	1.0039	0.9633	0.9524	AVRG	R		1.009114		ug/L	0.9910	7	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1389	0.1895	0.2166	0.1950	0.2119	0.1981	0.1924	AVRG	R		5.214289		ug/L	0.1918	13	0.0500	0.99	15	
Propylbenzene	3.4457	3.2925	3.7549	3.3437	3.5112	3.3981	3.1255	AVRG	R		0.293234		ug/L	3.4102	6	0.0500	0.99	15	
Bromobenzene	0.8299	0.8606	0.9918	0.8806	0.9081	0.8478	0.8328	AVRG	R		1.137910		ug/L	0.8788	6	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.9507	2.0972	2.2964	2.1085	2.1821	2.2156	1.8901	AVRG	R		0.474880		ug/L	2.1058	7	0.0500	0.99	15	
2-Chlorotoluene	2.2887	2.2410	2.4560	2.2156	2.2587	2.2358	1.9520	AVRG	R		0.447346		ug/L	2.2354	7	0.0500	0.99	15	
4-Chlorotoluene	2.2614	2.1124	2.2806	2.2075	2.1232	2.0043	1.9576	AVRG	R		0.468320		ug/L	2.1353	6	0.0500	0.99	15	
tert-Butylbenzene	1.5974	1.7573	2.0089	1.8438	1.9092	1.9928	1.6487	AVRG	R		0.548682		ug/L	1.8225	9	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.0771	2.0797	2.4881	2.2768	2.2595	2.2572	2.0753	AVRG	R		0.451213		ug/L	2.2162	7	0.0500	0.99	15	
sec-Butylbenzene	2.8263	2.7139	3.0628	2.8934	3.1218	3.1578	3.0173	AVRG	R		0.336647		ug/L	2.9705	6	0.0500	0.99	15	
para-Isopropyl Toluene	1.9391	2.2518	2.4399	2.2911	2.2697	2.3610	2.2380	AVRG	R		0.443302		ug/L	2.2558	7	0.0500	0.99	15	
1,3-Dichlorobenzene	1.2658	1.4347	1.7114	1.5203	1.4743	1.5399	1.4712	AVRG	R		0.671935		ug/L	1.4882	9	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5502	1.5115	1.6722	1.5494	1.5839	1.6216	1.4598	AVRG	R		0.639348		ug/L	1.5641	4	0.0500	0.99	15	
n-Butylbenzene	2.0251	2.1813	2.4483	2.4251	2.3584	2.3883	2.2775	AVRG	R		0.434674		ug/L	2.3006	7	0.0500	0.99	15	
1,2-Dichlorobenzene	1.4451	1.3633	1.6336	1.3762	1.5231	1.4940	1.4377	AVRG	R		0.681396		ug/L	1.4676	6	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.0953	0.1193	0.1428	0.1377	0.1488	0.1391	0.1323	AVRG	R		7.647665		ug/L	0.1308	14	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8462	0.8671	1.0344	0.9171	1.0210	1.0173	0.9572	AVRG	R		1.050993		ug/L	0.9515	8	0.0500	0.99	15	
Hexachlorobutadiene	0.3535	0.3841	0.4334	0.4041	0.4384	0.4517	0.4195	AVRG	R		2.426477		ug/L	0.4121	8	0.0500	0.99	15	
Naphthalene	1.8382	1.6841	2.1415	2.1680	2.2262	2.2561	2.0834	AVRG	R		0.486198		ug/L	2.0568	10	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8014	0.7936	0.9469	0.8960	0.9466	0.9027	0.8727	AVRG	R		1.136388		ug/L	0.8800	7	0.0500	0.99	15	
Dibromofluoromethane	0.6915	0.6771	0.6642	0.6832	0.6662	0.6947	0.6456	AVRG	R		1.482274		ug/L	0.6746	3	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.3456	0.3636	0.3813	0.3627	0.3774	0.3891	0.3655	AVRG	R		2.707833		ug/L	0.3693	4	0.0500	0.99	15	
Trifluorotoluene	0.3499	0.3520	0.3460	0.3534	0.3826	0.4201	0.3954	AVRG	R		2.693045		ug/L	0.3713	8	0.0500	0.99	15	
Toluene-d8	0.9290	0.9134	0.9522	0.9361	0.9328	0.9926	1.0014	AVRG	R		1.051440		ug/L	0.9511	4	0.0500	0.99	15	
Bromofluorobenzene	0.9657	0.8986	1.0247	0.9486	1.0281	0.9739	0.9378	AVRG	R		1.032868		ug/L	0.9682	5	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109014 Filename : ikl14 Injected : 21-NOV-2004 21:19
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS2093C (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	34.38790	ug/L	-31	30	v- ***
Chloromethane	50.00000	37.86670	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	43.13430	ug/L	-14	20	
Bromomethane	50.00000	56.91600	ug/L	14	30	
Chloroethane	50.00000	45.20230	ug/L	-10	30	
Trichlorofluoromethane	50.00000	46.64910	ug/L	-7	30	
Dibromofluoromethane	50.00000	44.08790	ug/L	-12	30	
1,2-Dichloroethane-d4	50.00000	48.18530	ug/L	-4	30	
Toluene-d8	50.00000	48.99340	ug/L	-2	30	
Bromofluorobenzene	50.00000	47.75320	ug/L	-4	30	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1014578	2.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1494029	0.39	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1206472	0.67	15.39	15.39	0.00
1,4-Dichlorobenzene-d4	568204	600946	5.76	19.69	19.69	0.00

11/22/04

11/22/04

!=warning -=low bias v=ICV
Page 1 of 1

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Report Date: 22-Nov-2004 08:41

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 21:19 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICV,04WS2093C,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:36 target Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.689	3.680	(0.409)	283356	34.3879	34.3879
2 Chloromethane	50	4.063	4.064	(0.450)	373221	37.8667	37.8667
3 Vinyl Chloride	62	4.241	4.232	(0.470)	261796	43.1343	43.1342
4 Bromomethane	94	4.882	4.883	(0.541)	228342	56.9162	56.9162
5 Chloroethane	64	5.000	5.001	(0.554)	192414	45.2023	45.2023
6 Trichlorofluoromethane	101	5.414	5.416	(0.600)	540320	46.6491	46.6491
7 Acetone	43	5.927	5.928	(0.657)	806	0.30126	0.3012(a)
9 1,1-Dichloroethene	96	6.243	6.244	(0.692)	3702	0.49394	0.4939(a)
10 Methylene Chloride	84	6.815	6.816	(0.755)	5497	0.52712	0.5271
11 Carbon Disulfide	76	6.953	6.954	(0.771)	24553	0.78662	0.7866
13 trans-1,2-Dichloroethene	96	7.298	7.299	(0.809)	6354	0.71077	0.7107
14 Vinyl Acetate	43	7.752	7.763	(0.859)	5348	0.28902	0.2890(a)
15 1,1-Dichloroethane	63	7.821	7.822	(0.867)	10944	0.63367	0.6336
16 2-Butanone	43	8.314	8.315	(0.921)	1556	0.36256	0.3625(a)
17 cis-1,2-Dichloroethene	96	8.659	8.650	(0.960)	5735	0.57412	0.5741
18 2,2-Dichloropropane	77	8.659	8.650	(0.960)	5347	0.50645	0.5064

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Report Date: 22-Nov-2004 08:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	19 Chloroform	83	8.886	8.887	(0.985)	10160	0.59155	0.5915
*	20 Pentafluorobenzene	168	9.024	9.025	(1.000)	1014578	50.0000	
	21 Bromochloromethane	128	9.083	9.084	(1.007)	981	0.16004	0.1600(a)
$	22 Dibromofluoromethane	113	9.162	9.163	(1.015)	603541	44.0879	44.0879
	23 1,1,1-Trichloroethane	97	9.537	9.528	(1.057)	5689	0.52430	0.5242
	24 1,1-Dichloropropene	75	9.764	9.765	(0.934)	5500	0.51023	0.5102
$	25 1,2-Dichloroethane-d4	65	9.852	9.854	(0.942)	531718	48.1853	48.1853
	26 Carbon Tetrachloride	117	9.931	9.942	(0.950)	3555	0.37564	0.3756(a)
	27 1,2-Dichloroethane	62	9.990	9.992	(0.956)	1700	0.15963	0.1596(a)
	28 Benzene	78	10.109	10.120	(0.967)	21191	0.66839	0.6683
*	29 1,4-Difluorobenzene	114	10.454	10.465	(1.000)	1494029	50.0000	
	30 Trichloroethene	95	11.046	11.037	(1.057)	6174	0.66142	0.6614
$	31 Trifluorotoluene	146	11.085	11.076	(1.060)	6365	0.57367	0.5736
	32 1,2-Dichloropropane	63	11.233	11.234	(1.075)	4460	0.45595	0.4559(a)
	33 Bromodichloromethane	83	11.568	11.570	(1.107)	3769	0.31590	0.3159(a)
	34 Dibromomethane	93	11.628	11.629	(1.112)	929	0.11684	0.1168(a)
	38 cis-1,3-Dichloropropene	75	12.397	12.398	(1.186)	4283	0.29931	0.2993(a)
$	39 Toluene-d8	98	12.880	12.881	(1.232)	1392330	48.9934	48.9933
	40 Toluene	92	13.018	13.009	(1.245)	12676	0.69600	0.6959
	41 trans-1,3-Dichloropropene	75	13.156	13.157	(1.258)	2122	0.17416	0.1741(a)
	44 1,3-Dichloropropane	76	13.837	13.838	(0.899)	1454	0.11278	0.1127(a)
	45 Tetrachloroethene	166	14.143	14.153	(0.919)	5676	0.69174	0.6917
*	48 Chlorobenzene-d5	117	15.385	15.386	(1.000)	1206472	50.0000	
	49 Chlorobenzene	112	15.454	15.455	(1.004)	12962	0.58257	0.5825
	50 1,1,1,2-Tetrachloroethane	131	15.503	15.505	(1.008)	3106	0.37827	0.3782(a)
	51 Ethylbenzene	91	15.563	15.564	(1.012)	22027	0.63169	0.6316
	52 m,p-Xylenes	106	15.711	15.712	(1.021)	17610	1.38998	1.3899
	53 o-Xylene	106	16.470	16.471	(1.071)	7496	0.60352	0.6035
	54 Styrene	104	16.480	16.481	(1.071)	10554	0.49822	0.4982(a)
	55 Bromoform	173	17.003	17.004	(1.105)	1123	0.14579	0.1457(a)
	56 Isopropylbenzene	105	17.111	17.112	(0.869)	18243	0.59035	0.5903
$	58 Bromofluorobenzene	95	17.496	17.497	(0.889)	555678	47.7532	47.7531
	60 Propylbenzene	91	17.841	17.842	(0.906)	26336	0.64255	0.6425
	61 Bromobenzene	156	17.870	17.872	(0.908)	4331	0.41012	0.4101(a)
	62 1,3,5-Trimethylbenzene	105	18.127	18.128	(0.921)	16534	0.65329	0.6532
	63 2-Chlorotoluene	91	18.137	18.138	(0.921)	17229	0.64127	0.6412
	64 4-Chlorotoluene	91	18.225	18.227	(0.926)	16681	0.64998	0.6499
	65 tert-Butylbenzene	119	18.778	18.779	(0.954)	13680	0.62455	0.6245
	66 1,2,4-Trimethylbenzene	105	18.847	18.848	(0.957)	16924	0.63538	0.6353
	67 sec-Butylbenzene	105	19.182	19.183	(0.974)	18997	0.53211	0.5321
	68 para-Isopropyl Toluene	119	19.429	19.430	(0.987)	16533	0.60982	0.6098
	69 1,3-Dichlorobenzene	146	19.567	19.568	(0.994)	12029	0.67255	0.6725
*	70 1,4-Dichlorobenzene-d4	152	19.685	19.686	(1.000)	600946	50.0000	
	71 1,4-Dichlorobenzene	146	19.744	19.745	(1.003)	11133	0.59227	0.5922
	72 n-Butylbenzene	91	20.188	20.189	(1.026)	19023	0.68800	0.6879
	73 1,2-Dichlorobenzene	146	20.415	20.426	(1.037)	7864	0.44585	0.4458(a)
	75 1,2,4-Trichlorobenzene	180	23.285	23.286	(1.183)	9988	0.87344	0.8734

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Report Date: 22-Nov-2004 08:41

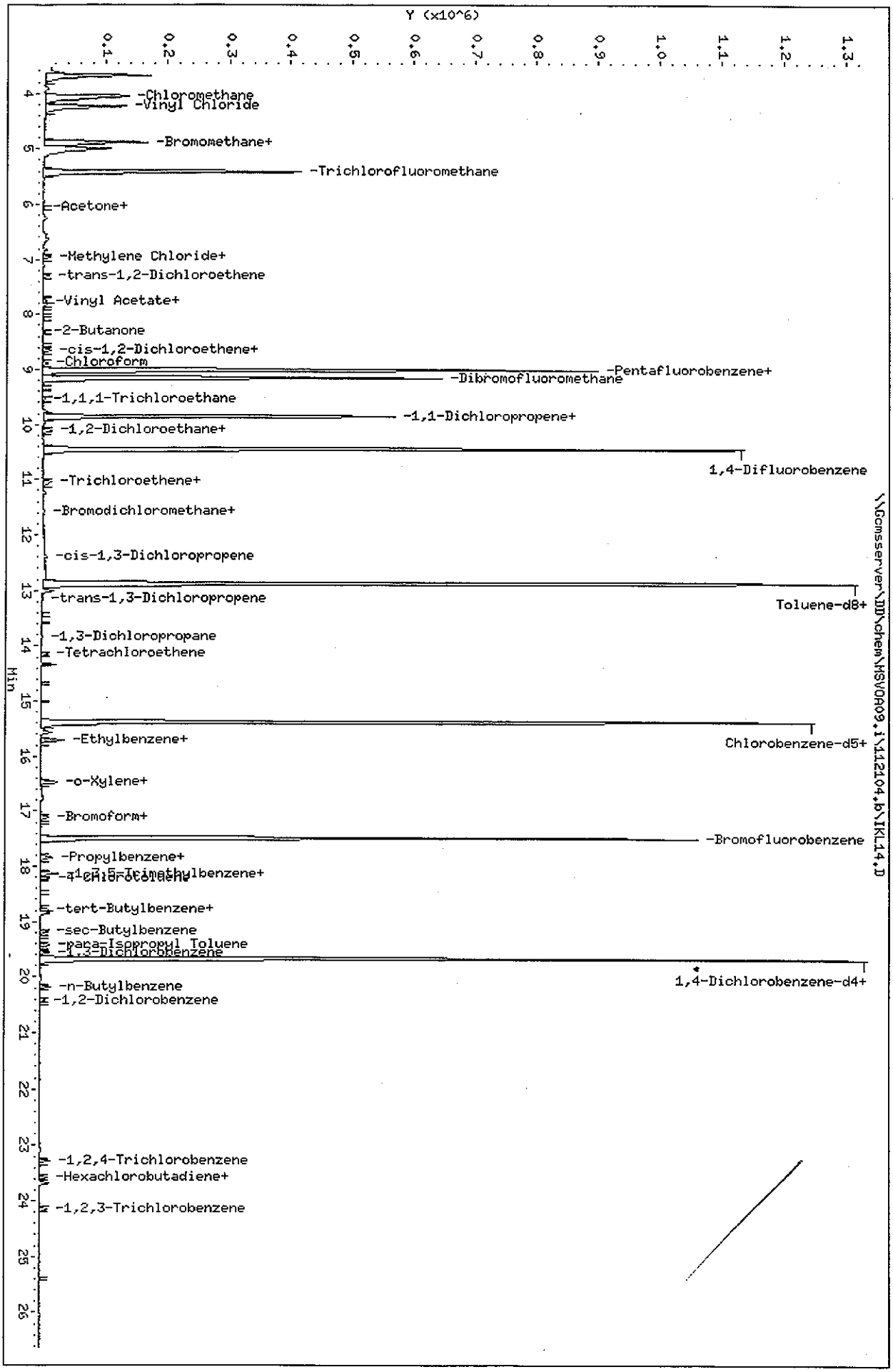
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
76 Hexachlorobutadiene	225	23.581	23.582	(1.198)	5018	1.01323	1.0132
77 Naphthalene	128	23.689	23.690	(1.203)	21629	0.87497	0.8749
78 1,2,3-Trichlorobenzene	180	24.153	24.154	(1.227)	8939	0.84528	0.8452

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\112104.b\IKL14.D
Date : 21-NOV-2004 21:19
Client ID: DYNA P&T
Sample Info: ICV,04WS2093C,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



8260 w ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	44.59970	ug/L	-11	40	
Freon 113	50.00000	52.27680	ug/L	5	30	
1,1-Dichloroethene	50.00000	44.05450	ug/L	-12	20	
Methylene Chloride	50.00000	41.68240	ug/L	-17	30	
Carbon Disulfide	50.00000	36.01470	ug/L	-28	30	!v-
MTBE	50.00000	49.11350	ug/L	-2	30	
trans-1,2-Dichloroethene	50.00000	44.12140	ug/L	-12	30	
Vinyl Acetate	50.00000	44.10440	ug/L	-12	40	
1,1-Dichloroethane	50.00000	42.86250	ug/L	-14	30	
2-Butanone	50.00000	46.86130	ug/L	-6	40	
2,2-Dichloropropane	50.00000	42.79560	ug/L	-14	30	
cis-1,2-Dichloroethene	50.00000	44.58400	ug/L	-11	30	
Chloroform	50.00000	40.71470	ug/L	-19	20	
Bromochloromethane	50.00000	44.24340	ug/L	-12	30	
1,1,1-Trichloroethane	50.00000	46.64680	ug/L	-7	30	
1,1-Dichloropropene	50.00000	48.28790	ug/L	-3	30	
Carbon Tetrachloride	50.00000	52.61100	ug/L	5	30	
1,2-Dichloroethane	50.00000	45.94130	ug/L	-8	30	
Benzene	50.00000	49.45180	ug/L	-1	30	
Trichloroethene	50.00000	49.55640	ug/L	-1	30	
1,2-Dichloropropane	50.00000	48.86640	ug/L	-2	20	
Bromodichloromethane	50.00000	48.91790	ug/L	-2	30	
Dibromomethane	50.00000	49.26520	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	15.98140	ug/L	-68	40	v- ***
4-Methyl-2-Pentanone	50.00000	50.90330	ug/L	2	40	
Tetramethyl THF	50.00000	49.03710	ug/L	-2	30	
cis-1,3-Dichloropropene	50.00000	48.98030	ug/L	-2	30	
Toluene	50.00000	50.66520	ug/L	1	20	
trans-1,3-Dichloropropene	50.00000	47.59550	ug/L	-5	30	
1,1,2-Trichloroethane	50.00000	53.18380	ug/L	6	30	
2-Hexanone	50.00000	51.15600	ug/L	2	40	
1,3-Dichloropropane	50.00000	43.85980	ug/L	-12	30	
Tetrachloroethene	50.00000	49.36900	ug/L	-1	30	
Dibromochloromethane	50.00000	47.64990	ug/L	-5	30	
1,2-Dibromoethane	50.00000	50.73340	ug/L	1	30	
Chlorobenzene	50.00000	45.07780	ug/L	-10	30	
1,1,1,2-Tetrachloroethane	50.00000	47.30650	ug/L	-5	30	
Ethylbenzene	50.00000	47.99840	ug/L	-4	20	
m,p-Xylenes	100.0000	92.15590	ug/L	-8	30	
o-Xylene	50.00000	44.78060	ug/L	-10	30	
Styrene	50.00000	47.16190	ug/L	-6	30	
Bromoform	50.00000	48.96620	ug/L	-2	30	
Isopropylbenzene	50.00000	43.46750	ug/L	-13	30	
1,1,2,2-Tetrachloroethane	50.00000	45.24820	ug/L	-10	30	
1,2,3-Trichloropropane	50.00000	45.77170	ug/L	-8	30	
Propylbenzene	50.00000	48.14630	ug/L	-4	30	
Bromobenzene	50.00000	49.60180	ug/L	-1	30	

!=warning -=low bias v=ICV
Page 1 of 2

11/22/04

11/22/04

8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	48.55720	ug/L	-3	30	
2-Chlorotoluene	50.00000	45.52670	ug/L	-9	30	
4-Chlorotoluene	50.00000	46.73920	ug/L	-7	30	
tert-Butylbenzene	50.00000	47.08890	ug/L	-6	30	
1,2,4-Trimethylbenzene	50.00000	47.63740	ug/L	-5	30	
sec-Butylbenzene	50.00000	46.39300	ug/L	-7	30	
para-Isopropyl Toluene	50.00000	45.37760	ug/L	-9	30	
1,3-Dichlorobenzene	50.00000	47.82840	ug/L	-4	30	
1,4-Dichlorobenzene	50.00000	45.70340	ug/L	-9	30	
n-Butylbenzene	50.00000	49.55680	ug/L	-1	30	
1,2-Dichlorobenzene	50.00000	47.21460	ug/L	-6	30	
1,2-Dibromo-3-Chloropropane	50.00000	48.61860	ug/L	-3	30	
1,2,4-Trichlorobenzene	50.00000	50.59590	ug/L	1	30	
Hexachlorobutadiene	50.00000	52.53790	ug/L	5	30	
Naphthalene	50.00000	46.10110	ug/L	-8	30	
1,2,3-Trichlorobenzene	50.00000	50.61160	ug/L	1	30	
Dibromofluoromethane	50.00000	45.18460	ug/L	-10	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	47.15140	ug/L	-6	30	(NOT USED)
Toluene-d8	50.00000	51.34820	ug/L	3	30	(NOT USED)
Bromofluorobenzene	50.00000	48.96160	ug/L	-2	30	(NOT USED)

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1034484	4.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1417615	-4.75	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1227374	2.41	15.39	15.38	-0.01
1,4-Dichlorobenzene-d4	568204	589573	3.76	19.69	19.68	-0.01

!=warning -=low bias v=ICV
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Report Date: 22-Nov-2004 08:41

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 21:54 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICV,04WS1939B,5000X,04WS1940D,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:36 target Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.675	3.680	(0.407)	4328	0.51514	0.5151
2 Chloromethane	50	4.030	4.064	(0.447)	39649	3.94535	3.9453
3 Vinyl Chloride	62	4.237	4.232	(0.470)	3397	0.54908	0.5490
4 Bromomethane	94	4.868	4.883	(0.540)	148015	36.1840	36.1840
5 Chloroethane	64	4.987	5.001	(0.553)	2902	0.66880	0.6688
6 Trichlorofluoromethane	101	5.420	5.416	(0.601)	4651	0.39390	0.3939(a)
7 Acetone	43	5.923	5.928	(0.657)	121805	44.6000	44.6000
8 Freon 113	101	6.062	6.057	(0.672)	377404	52.2768	52.2768
9 1,1-Dichloroethene	96	6.239	6.244	(0.692)	336720	44.0545	44.0544
10 Methylene Chloride	84	6.821	6.816	(0.756)	443264	41.6824	41.6824
11 Carbon Disulfide	76	6.949	6.954	(0.770)	1146229	36.0147	36.0146
12 MTBE	73	7.117	7.122	(0.789)	981106	49.1135	49.1134
13 trans-1,2-Dichloroethene	96	7.294	7.299	(0.809)	402177	44.1214	44.1214
14 Vinyl Acetate	43	7.758	7.763	(0.860)	832267	44.1044	44.1043
15 1,1-Dichloroethane	63	7.817	7.822	(0.867)	754831	42.8625	42.8624
16 2-Butanone	43	8.310	8.315	(0.921)	205148	46.8613	46.8612

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Report Date: 22-Nov-2004 08:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 cis-1,2-Dichloroethene	96	8.655	8.650	(0.960)	454095	44.5840	44.5840
	18 2,2-Dichloropropane	77	8.645	8.650	(0.958)	460749	42.7956	42.7956
	19 Chloroform	83	8.882	8.887	(0.985)	713051	40.7147	40.7146
*	20 Pentafluorobenzene	168	9.020	9.025	(1.000)	1034484	50.0000	
	21 Bromochloromethane	128	9.079	9.084	(1.007)	276713	44.2434	44.2433
$	22 Dibromofluoromethane	113	9.158	9.163	(1.015)	630689	45.1845	45.1845
	23 1,1,1-Trichloroethane	97	9.523	9.528	(1.056)	516098	46.6468	46.6467
	24 1,1-Dichloropropene	75	9.760	9.765	(0.933)	493935	48.2879	48.2878
$	25 1,2-Dichloroethane-d4	65	9.858	9.854	(0.942)	493698	47.1515	47.1515
	26 Carbon Tetrachloride	117	9.937	9.942	(0.950)	472484	52.6110	52.6109
	27 1,2-Dichloroethane	62	9.987	9.992	(0.955)	464365	45.9414	45.9413
	28 Benzene	78	10.105	10.120	(0.966)	1487716	49.4518	49.4518
*	29 1,4-Difluorobenzene	114	10.460	10.465	(1.000)	1417615	50.0000	
	30 Trichloroethene	95	11.042	11.037	(1.056)	438967	49.5565	49.5565
$	31 Trifluorotoluene	146	11.081	11.076	(1.059)	1766	0.16778	0.1677(a)
	32 1,2-Dichloropropane	63	11.239	11.234	(1.074)	453591	48.8664	48.8663
	33 Bromodichloromethane	83	11.565	11.570	(1.106)	553850	48.9179	48.9178
	34 Dibromomethane	93	11.624	11.629	(1.111)	371982	49.2653	49.2652
	35 2-Chloroethylvinylether	63	11.969	11.974	(1.144)	96693	15.9815	15.9815
	36 4-Methyl-2-Pentanone	43	12.068	12.063	(1.154)	423491	50.9033	50.9033
	37 Tetramethyl THF	43	12.265	12.270	(1.173)	827588	49.0371	49.0370
	38 cis-1,3-Dichloropropene	75	12.393	12.398	(1.185)	665134	48.9804	48.9803
$	39 Toluene-d8	98	12.886	12.881	(1.232)	1384616	51.3483	51.3482
	40 Toluene	92	13.014	13.009	(1.244)	875596	50.6653	50.6652
	41 trans-1,3-Dichloropropene	75	13.162	13.157	(1.258)	550391	47.5955	47.5955
	42 1,1,2-Trichloroethane	85	13.438	13.434	(1.285)	253943	53.1839	53.1839
	43 2-Hexanone	43	13.448	13.453	(0.874)	300556	51.1560	51.1560
	44 1,3-Dichloropropane	76	13.843	13.838	(0.900)	575616	43.8598	43.8597
	45 Tetrachloroethene	166	14.149	14.153	(0.920)	412112	49.3691	49.3691
	46 Dibromochloromethane	129	14.316	14.321	(0.931)	524132	47.6500	47.6499
	47 1,2-Dibromoethane	107	14.671	14.676	(1.403)	486677	50.7335	50.7334
*	48 Chlorobenzene-d5	117	15.381	15.386	(1.000)	1227374	50.0000	
	49 Chlorobenzene	112	15.450	15.455	(1.004)	1020401	45.0779	45.0778
	50 1,1,1,2-Tetrachloroethane	131	15.500	15.505	(1.008)	395168	47.3066	47.3066
	51 Ethylbenzene	91	15.569	15.564	(1.012)	1702709	47.9984	47.9983
	52 m,p-Xylenes	106	15.707	15.712	(1.021)	1187827	92.1560	92.1560
	53 o-Xylene	106	16.466	16.471	(1.071)	565883	44.7807	44.7807
	54 Styrene	104	16.486	16.481	(1.072)	1016421	47.1619	47.1618
	55 Bromoform	173	17.009	17.004	(1.106)	384006	48.9663	48.9662
	56 Isopropylbenzene	105	17.107	17.112	(0.869)	1317807	43.4674	43.4674
	57 1,1,2,2-Tetrachloroethane	83	17.275	17.270	(0.878)	528723	45.2481	45.2481
$	58 Bromofluorobenzene	95	17.492	17.497	(0.889)	558957	48.9616	48.9616
	59 1,2,3-Trichloropropane	110	17.531	17.536	(0.891)	103507	45.7717	45.7717
	60 Propylbenzene	91	17.837	17.842	(0.906)	1936047	48.1463	48.1463
	61 Bromobenzene	156	17.867	17.872	(0.908)	513993	49.6018	49.6018
	62 1,3,5-Trimethylbenzene	105	18.123	18.128	(0.921)	1205694	48.5572	48.5571
	63 2-Chlorotoluene	91	18.133	18.138	(0.921)	1200023	45.5266	45.5266

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Report Date: 22-Nov-2004 08:41

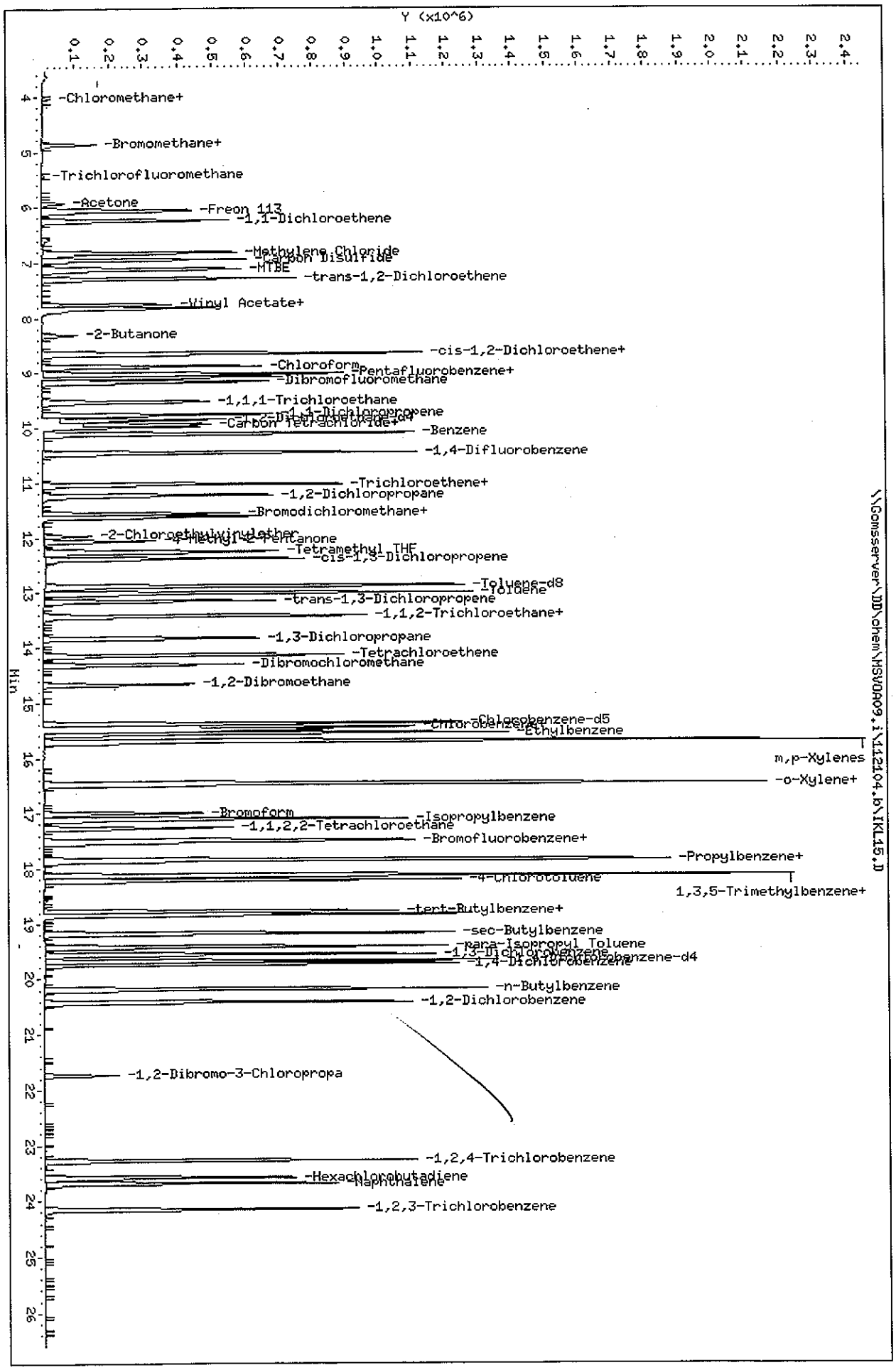
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 4-Chlorotoluene	91	18.222	18.227	(0.926)	1176809	46.7392	46.7392
65 tert-Butylbenzene	119	18.784	18.779	(0.954)	1011965	47.0889	47.0888
66 1,2,4-Trimethylbenzene	105	18.843	18.848	(0.957)	1244899	47.6374	47.6374
67 sec-Butylbenzene	105	19.188	19.183	(0.975)	1624968	46.3929	46.3929
68 para-Isopropyl Toluene	119	19.425	19.430	(0.987)	1207007	45.3776	45.3775
69 1,3-Dichlorobenzene	146	19.563	19.568	(0.994)	839317	47.8284	47.8283
* 70 1,4-Dichlorobenzene-d4	152	19.681	19.686	(1.000)	589573	50.0000	
71 1,4-Dichlorobenzene	146	19.740	19.745	(1.003)	842905	45.7034	45.7033
72 n-Butylbenzene	91	20.184	20.189	(1.026)	1344334	49.5568	49.5567
73 1,2-Dichlorobenzene	146	20.421	20.426	(1.038)	817042	47.2147	47.2146
74 1,2-Dibromo-3-Chloropropane	75	21.733	21.738	(1.104)	74962	48.6191	48.6191
75 1,2,4-Trichlorobenzene	180	23.281	23.286	(1.183)	567653	50.5959	50.5959
76 Hexachlorobutadiene	225	23.587	23.582	(1.198)	255308	52.5381	52.5380
77 Naphthalene	128	23.685	23.690	(1.203)	1118063	46.1011	46.1011
78 1,2,3-Trichlorobenzene	180	24.149	24.154	(1.227)	525159	50.6116	50.6115

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\Comsserver\DD\chem\MSVOA09.i\112104.b\IKL15.D
Date : 21-NOV-2004 21:54
Client ID: DYNA P&T
Sample Info: ICV,04WS1939B,5000X,04WS1940D,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



8260W ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

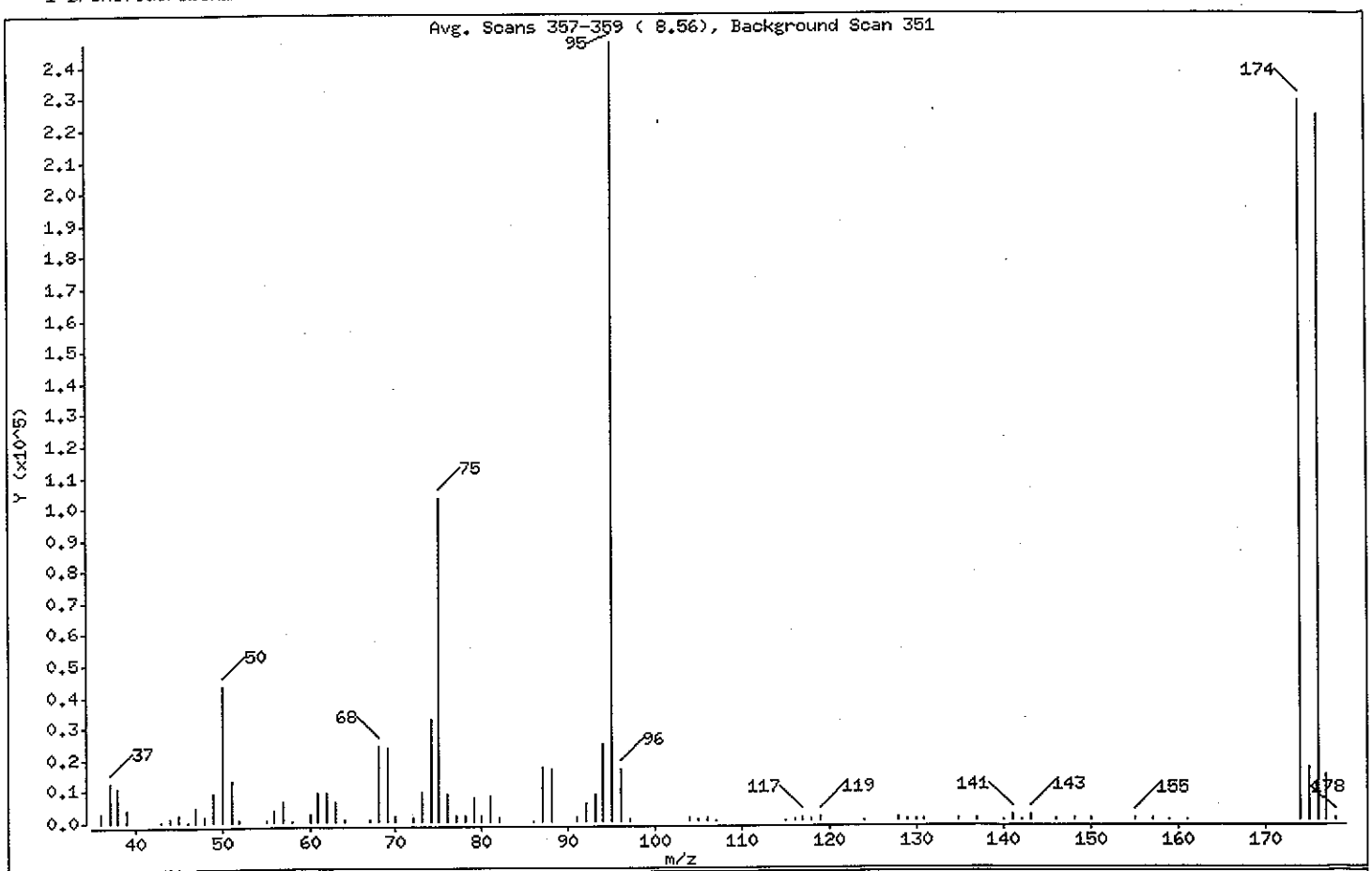
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	41.55
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	92.38
175	5.00 - 9.00% of mass 174	6.66 (7.21)
176	95.01 - 100.99% of mass 174	90.67 (98.15)
177	5.00 - 9.00% of mass 176	5.78 (6.38)

11/22/04

11/22/04

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

Data File: IKL04.D
Spectrum: Avg. Scans 357-359 (8.56), Background Scan 351
Location of Maximum: 95.00
Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2624	63.00	6528	92.00	5547	137.00	451
37.00	12742	64.00	549	93.00	8547	140.00	98
38.00	10925	67.00	687	94.00	24256	141.00	1897
39.00	4261	68.00	23840	95.00	247296	142.00	110
43.00	94	69.00	23560	96.00	16552	143.00	1982
44.00	1084	70.00	1582	97.00	588	146.00	415
45.00	2537	72.00	1131	104.00	985	148.00	669
46.00	101	73.00	8977	105.00	415	150.00	313
47.00	4417	74.00	32688	106.00	1009	155.00	514
48.00	1573	75.00	102744	107.00	173	157.00	418
49.00	9208	76.00	8557	115.00	192	159.00	111
50.00	43488	77.00	1731	116.00	802	161.00	88
51.00	13347	78.00	1591	117.00	1384	174.00	228416
52.00	701	79.00	7107	118.00	722	175.00	16456
55.00	601	80.00	1785	119.00	1138	176.00	224192
56.00	3212	81.00	7700	124.00	186	177.00	14299
57.00	6199	82.00	1364	128.00	886	178.00	433
58.00	238	86.00	166	129.00	413		
60.00	2031	87.00	17160	130.00	824		
61.00	9172	88.00	16488	131.00	376		
62.00	9088	91.00	923	135.00	423		

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Instrument: MSVOA09.i

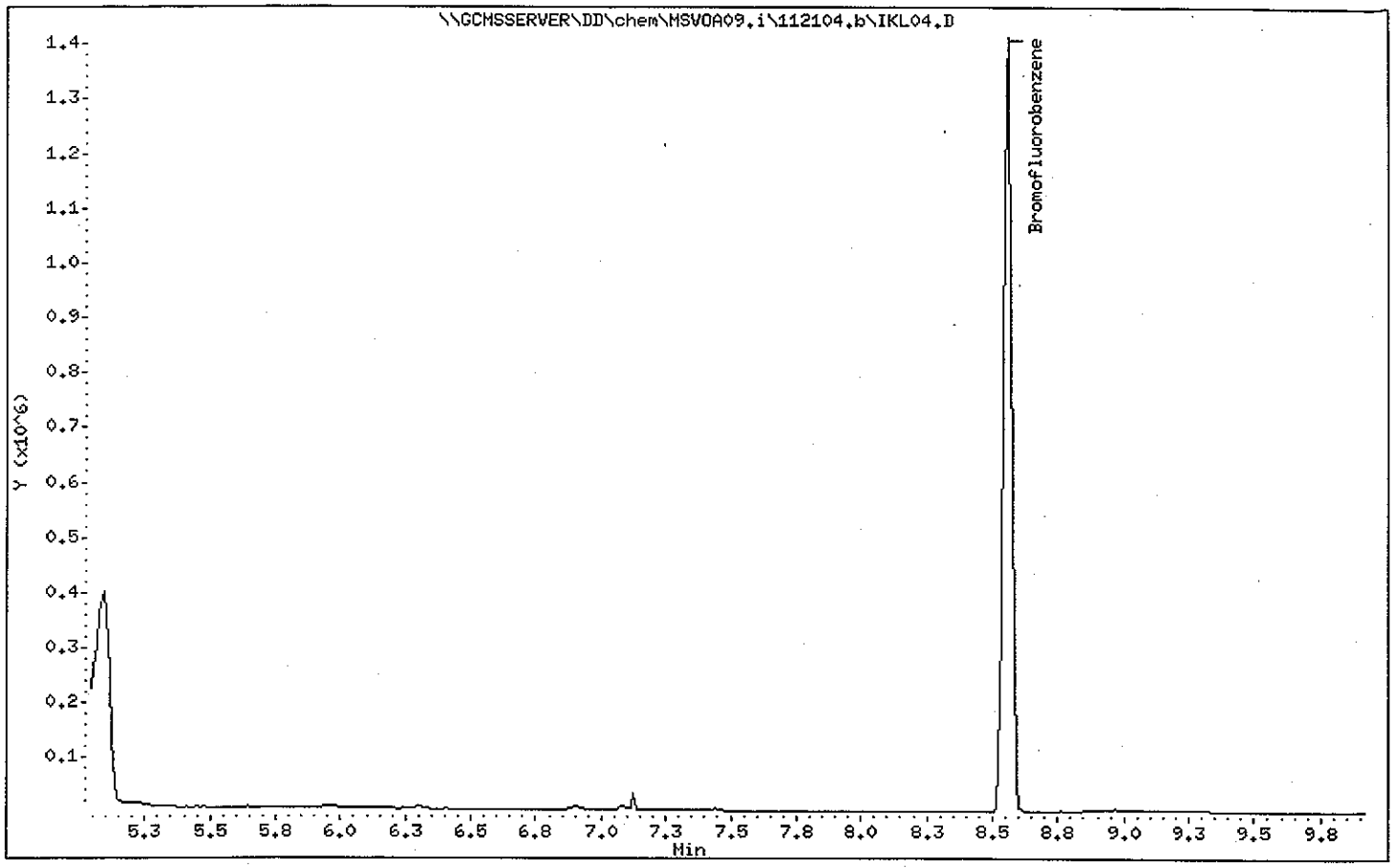
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Report Date: 22-Nov-2004 08:35

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Lab Smp Id:
Inj Date : 21-NOV-2004 17:13
Operator : BO
Smp Info : ICAL,04SS393,0.002/1000,04WS2167A,0.002/1000,
Misc Info : 04WS2204A,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:35 target
Cal Date : 21-NOV-2004 17:13
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 19-OCT-2004 13:26
Inst ID: MSVOA09.i

Quant Type: ISTD
Cal File: IKL07.D
Calibration Sample, Level: 7

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.685	3.685	(0.409)	6299	1.00000	0.8534
2 Chloromethane	50	4.049	4.049	(0.449)	9967	1.00000	1.1290(M) 11/22/04
3 Vinyl Chloride	62	4.237	4.237	(0.470)	5823	1.00000	1.0711
4 Bromomethane	94	4.878	4.878	(0.541)	4086	1.00000	1.1371
5 Chloroethane	64	4.996	4.996	(0.554)	3896	1.00000	1.0218
6 Trichlorofluoromethane	101	5.420	5.420	(0.601)	9189	1.00000	0.8857
7 Acetone	43	5.933	5.933	(0.658)	2401	0.50000	1.0008
8 Freon 113	101	6.071	6.071	(0.673)	2702	0.50000	0.4260(a)
9 1,1-Dichloroethene	96	6.249	6.249	(0.693)	3221	0.50000	0.4797(a)
10 Methylene Chloride	84	6.821	6.821	(0.756)	5860	0.50000	0.6273
11 Carbon Disulfide	76	6.949	6.949	(0.770)	15739	0.50000	0.5629
12 MTBE	73	7.126	7.126	(0.790)	8692	0.50000	0.4953(a)
13 trans-1,2-Dichloroethene	96	7.294	7.294	(0.809)	4057	0.50000	0.5066
14 Vinyl Acetate	43	7.758	7.758	(0.860)	8288	0.50000	0.4999(a)
15 1,1-Dichloroethane	63	7.817	7.817	(0.867)	8356	0.50000	0.5401
16 2-Butanone	43	8.310	8.310	(0.921)	2590	0.50000	0.6734

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Report Date: 22-Nov-2004 08:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.655	8.655	(0.960)	4581	0.50000	0.5120
	18 2,2-Dichloropropane	77	8.655	8.655	(0.960)	4766	0.50000	0.5039
	19 Chloroform	83	8.892	8.892	(0.986)	9003	0.50000	0.5852
*	20 Pentafluorobenzene	168	9.020	9.020	(1.000)	908727	50.0000	
	21 Bromochloromethane	128	9.079	9.079	(1.007)	2785	0.50000	0.5069
$	22 Dibromofluoromethane	113	9.168	9.168	(1.016)	628368	50.0000	51.2482
	23 1,1,1-Trichloroethane	97	9.533	9.533	(1.057)	4764	0.50000	0.4901(a)
	24 1,1-Dichloropropene	75	9.760	9.760	(0.933)	5181	0.50000	0.4652(a)
$	25 1,2-Dichloroethane-d4	65	9.858	9.858	(0.942)	533290	50.0000	46.7880
	26 Carbon Tetrachloride	117	9.947	9.947	(0.951)	4202	0.50000	0.4298(a)
	27 1,2-Dichloroethane	62	9.986	9.986	(0.955)	4889	0.50000	0.4443(a)
	28 Benzene	78	10.115	10.115	(0.967)	16785	0.50000	0.5125
*	29 1,4-Difluorobenzene	114	10.460	10.460	(1.000)	1543192	50.0000	
	30 Trichloroethene	95	11.042	11.042	(1.056)	4741	0.50000	0.4916(a)
$	31 Trifluorotoluene	146	11.071	11.071	(1.058)	5399	0.50000	0.4710(a)
	32 1,2-Dichloropropane	63	11.239	11.239	(1.074)	5119	0.50000	0.5066
	33 Bromodichloromethane	83	11.574	11.574	(1.107)	5602	0.50000	0.4545(a)
	34 Dibromomethane	93	11.633	11.633	(1.112)	3919	0.50000	0.4767(a)
	35 2-Chloroethylvinylether	63	11.969	11.969	(1.144)	5544	1.00000	0.8417
	36 4-Methyl-2-Pentanone	43	12.077	12.077	(1.155)	4180	0.50000	0.4615(a)
	37 Tetramethyl THF	43	12.275	12.275	(1.173)	8543	0.50000	0.4650(a)
	38 cis-1,3-Dichloropropene	75	12.393	12.393	(1.185)	6797	0.50000	0.4597(a)
$	39 Toluene-d8	98	12.886	12.886	(1.232)	1433625	50.0000	48.8393
	40 Toluene	92	13.014	13.014	(1.244)	9250	0.50000	0.4916(a)
	41 trans-1,3-Dichloropropene	75	13.162	13.162	(1.258)	5457	0.50000	0.4334(a)
	42 1,1,2-Trichloroethane	85	13.438	13.438	(1.285)	2318	0.50000	0.4459(a)
	43 2-Hexanone	43	13.468	13.468	(0.875)	3007	0.50000	0.5248
	44 1,3-Dichloropropane	76	13.843	13.843	(0.899)	6069	0.50000	0.4742(a)
	45 Tetrachloroethene	166	14.148	14.148	(0.919)	3907	0.50000	0.4800(a)
	46 Dibromochloromethane	129	14.326	14.326	(0.931)	4648	0.50000	0.4333(a)
	47 1,2-Dibromoethane	107	14.681	14.681	(1.404)	4683	0.50000	0.4484(a)
*	48 Chlorobenzene-d5	117	15.391	15.391	(1.000)	1196784	50.0000	
	49 Chlorobenzene	112	15.450	15.450	(1.004)	11232	0.50000	0.5088
	50 1,1,1,2-Tetrachloroethane	131	15.509	15.509	(1.008)	3818	0.50000	0.4687(a)
	51 Ethylbenzene	91	15.569	15.569	(1.012)	17115	0.50000	0.4947(a)
	52 m,p-Xylenes	106	15.707	15.707	(1.021)	12035	1.00000	0.9575
	53 o-Xylene	106	16.466	16.466	(1.070)	5511	0.50000	0.4472(a)
	54 Styrene	104	16.486	16.486	(1.071)	8997	0.50000	0.4281(a)
	55 Bromoform	173	16.999	16.999	(1.104)	3584	0.50000	0.4686(a)
	56 Isopropylbenzene	105	17.107	17.107	(0.869)	12678	0.50000	0.4318(a)
	57 1,1,2,2-Tetrachloroethane	83	17.265	17.265	(0.877)	5312	0.50000	0.4694(a)
$	58 Bromofluorobenzene	95	17.492	17.492	(0.889)	551272	50.0000	49.8695
	59 1,2,3-Trichloropropane	110	17.541	17.541	(0.891)	793	0.50000	0.3621(a)
	60 Propylbenzene	91	17.837	17.837	(0.906)	19671	0.50000	0.5052
	61 Bromobenzene	156	17.866	17.866	(0.908)	4738	0.50000	0.4722(a)
	62 1,3,5-Trimethylbenzene	105	18.133	18.133	(0.921)	11136	0.50000	0.4631(a)
	63 2-Chlorotoluene	91	18.143	18.143	(0.922)	13066	0.50000	0.5119

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Report Date: 22-Nov-2004 08:35

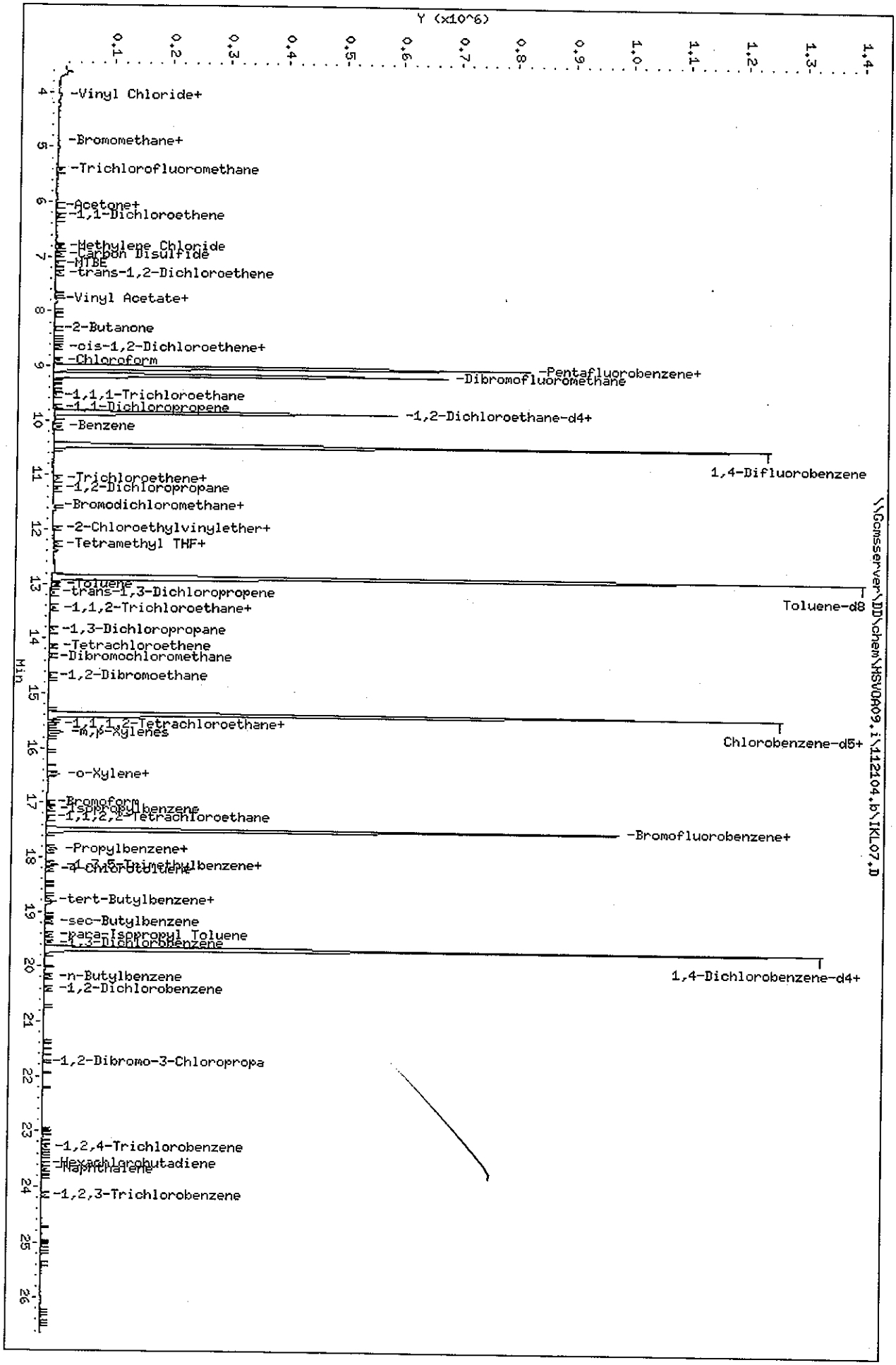
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.221	18.221	(0.926)	12910	0.50000	0.5295
65 tert-Butylbenzene	119	18.784	18.784	(0.954)	9119	0.50000	0.4382(a)
66 1,2,4-Trimethylbenzene	105	18.843	18.843	(0.957)	11858	0.50000	0.4686(a)
67 sec-Butylbenzene	105	19.188	19.188	(0.975)	16135	0.50000	0.4757(a)
68 para-Isopropyl Toluene	119	19.425	19.425	(0.987)	11070	0.50000	0.4298(a)
69 1,3-Dichlorobenzene	146	19.563	19.563	(0.994)	7226	0.50000	0.4252(a)
* 70 1,4-Dichlorobenzene-d4	152	19.681	19.681	(1.000)	570881	50.0000	
71 1,4-Dichlorobenzene	146	19.740	19.740	(1.003)	8850	0.50000	0.4955(a)
72 n-Butylbenzene	91	20.184	20.184	(1.026)	11561	0.50000	0.4401(a)
73 1,2-Dichlorobenzene	146	20.421	20.421	(1.038)	8250	0.50000	0.4923(a)
74 1,2-Dibromo-3-Chloropropane	75	21.732	21.732	(1.104)	544	0.50000	0.3643(a)
75 1,2,4-Trichlorobenzene	180	23.281	23.281	(1.183)	4831	0.50000	0.4446(a)
76 Hexachlorobutadiene	225	23.577	23.577	(1.198)	2018	0.50000	0.4288(a)
77 Naphthalene	128	23.685	23.685	(1.203)	10494	0.50000	0.4468(a)
78 1,2,3-Trichlorobenzene	180	24.149	24.149	(1.227)	4575	0.50000	0.4553(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSVOA09.i\112104.b\IKL07.D
Date : 21-NOV-2004 17:13
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.002/1000,04WS2167A,0.002/1000,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Report Date: 22-Nov-2004 08:35

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 17:48 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICAL,04SS393,0.005/500,04WS2167A,0.010/500,
Misc Info : 04WS2204A,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:35 target Quant Type: ISTD
Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.684	3.684	(0.408)	37645	5.00000	4.9930
2 Chloromethane	50	4.059	4.059	(0.450)	49973	5.00000	5.5412
3 Vinyl Chloride	62	4.236	4.236	(0.470)	31712	5.00000	5.7103
4 Bromomethane	94	4.877	4.877	(0.541)	15127	5.00000	4.1208(M)
5 Chloroethane	64	4.995	4.995	(0.554)	21706	5.00000	5.5729
6 Trichlorofluoromethane	101	5.420	5.420	(0.601)	54737	5.00000	5.1648
7 Acetone	43	5.932	5.932	(0.658)	13138	5.00000	5.3606
8 Freon 113	101	6.061	6.061	(0.672)	32598	5.00000	5.0316
9 1,1-Dichloroethene	96	6.238	6.238	(0.692)	34175	5.00000	4.9825
10 Methylene Chloride	84	6.820	6.820	(0.756)	52088	5.00000	5.4581
11 Carbon Disulfide	76	6.948	6.948	(0.770)	145385	5.00000	5.0903
12 MTBE	73	7.116	7.116	(0.789)	89160	5.00000	4.9736
13 trans-1,2-Dichloroethene	96	7.293	7.293	(0.809)	43338	5.00000	5.2981
14 Vinyl Acetate	43	7.757	7.757	(0.860)	80392	5.00000	4.7473
15 1,1-Dichloroethane	63	7.826	7.826	(0.868)	81054	5.00000	5.1288
16 2-Butanone	43	8.319	8.319	(0.922)	19196	5.00000	4.8862

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Report Date: 22-Nov-2004 08:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.654	8.654	(0.960)	48097	5.00000	5.2622
	18 2,2-Dichloropropane	77	8.654	8.654	(0.960)	51069	5.00000	5.2858
	19 Chloroform	83	8.881	8.881	(0.985)	78536	5.00000	4.9971
*	20 Pentafluorobenzene	168	9.019	9.019	(1.000)	928333	50.0000	
	21 Bromochloromethane	128	9.078	9.078	(1.007)	27708	5.00000	4.9367
$	22 Dibromofluoromethane	113	9.157	9.157	(1.015)	628560	50.0000	50.1812
	23 1,1,1-Trichloroethane	97	9.532	9.532	(1.057)	48493	5.00000	4.8841
	24 1,1-Dichloropropene	75	9.759	9.759	(0.933)	51789	5.00000	4.9624
$	25 1,2-Dichloroethane-d4	65	9.858	9.858	(0.942)	525858	50.0000	49.2260
	26 Carbon Tetrachloride	117	9.936	9.936	(0.950)	43944	5.00000	4.7960
	27 1,2-Dichloroethane	62	9.986	9.986	(0.955)	52656	5.00000	5.1060
	28 Benzene	78	10.114	10.114	(0.967)	165548	5.00000	5.3936
*	29 1,4-Difluorobenzene	114	10.459	10.459	(1.000)	1446322	50.0000	
	30 Trichloroethene	95	11.041	11.041	(1.056)	46539	5.00000	5.1496
$	31 Trifluorotoluene	146	11.080	11.080	(1.059)	50904	5.00000	4.7391
	32 1,2-Dichloropropane	63	11.238	11.238	(1.074)	47724	5.00000	5.0393
	33 Bromodichloromethane	83	11.564	11.564	(1.106)	58339	5.00000	5.0504
	34 Dibromomethane	93	11.623	11.623	(1.111)	37742	5.00000	4.8993
	35 2-Chloroethylvinylether	63	11.968	11.968	(1.144)	27782	5.00000	4.5006
	36 4-Methyl-2-Pentanone	43	12.067	12.067	(1.154)	39035	5.00000	4.5988
	37 Tetramethyl THF	43	12.264	12.264	(1.173)	88980	5.00000	5.1676
	38 cis-1,3-Dichloropropene	75	12.392	12.392	(1.185)	69364	5.00000	5.0065
$	39 Toluene-d8	98	12.885	12.885	(1.232)	1321068	50.0000	48.0191
	40 Toluene	92	13.013	13.013	(1.244)	93369	5.00000	5.2954
	41 trans-1,3-Dichloropropene	75	13.161	13.161	(1.258)	56839	5.00000	4.8176
	42 1,1,2-Trichloroethane	85	13.438	13.438	(1.285)	25054	5.00000	5.1429
	43 2-Hexanone	43	13.447	13.447	(0.874)	25787	5.00000	4.7692
	44 1,3-Dichloropropane	76	13.832	13.832	(0.899)	63725	5.00000	5.2761
	45 Tetrachloroethene	166	14.148	14.148	(0.920)	39311	5.00000	5.1171
	46 Dibromochloromethane	129	14.315	14.315	(0.931)	50751	5.00000	5.0135
	47 1,2-Dibromoethane	107	14.680	14.680	(1.404)	48850	5.00000	4.9912
*	48 Chlorobenzene-d5	117	15.380	15.380	(1.000)	1129536	50.0000	
	49 Chlorobenzene	112	15.449	15.449	(1.004)	106358	5.00000	5.1055
	50 1,1,1,2-Tetrachloroethane	131	15.499	15.499	(1.008)	39366	5.00000	5.1207
	51 Ethylbenzene	91	15.568	15.568	(1.012)	174990	5.00000	5.3601
	52 m,p-Xylenes	106	15.706	15.706	(1.021)	124267	10.0000	10.4761
	53 o-Xylene	106	16.465	16.465	(1.071)	60759	5.00000	5.2245
	54 Styrene	104	16.485	16.485	(1.072)	101476	5.00000	5.1163
	55 Bromoform	173	17.008	17.008	(1.106)	33517	5.00000	4.6440
	56 Isopropylbenzene	105	17.106	17.106	(0.869)	146129	5.00000	4.8411
	57 1,1,2,2-Tetrachloroethane	83	17.274	17.274	(0.878)	55530	5.00000	4.7730
$	58 Bromofluorobenzene	95	17.501	17.501	(0.889)	527487	50.0000	46.4074
	59 1,2,3-Trichloropropane	110	17.530	17.530	(0.891)	11122	5.00000	4.9397
	60 Propylbenzene	91	17.836	17.836	(0.906)	193273	5.00000	4.8274
	61 Bromobenzene	156	17.866	17.866	(0.908)	50520	5.00000	4.8966
	62 1,3,5-Trimethylbenzene	105	18.122	18.122	(0.921)	123108	5.00000	4.9796
	63 2-Chlorotoluene	91	18.142	18.142	(0.922)	131549	5.00000	5.0125

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Report Date: 22-Nov-2004 08:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.221	18.221	(0.926)	123998	5.00000	4.9463
65 tert-Butylbenzene	119	18.783	18.783	(0.954)	103151	5.00000	4.8208
66 1,2,4-Trimethylbenzene	105	18.842	18.842	(0.957)	122081	5.00000	4.6920
67 sec-Butylbenzene	105	19.187	19.187	(0.975)	159307	5.00000	4.5681
68 para-Isopropyl Toluene	119	19.424	19.424	(0.987)	132179	5.00000	4.9910
69 1,3-Dichlorobenzene	146	19.562	19.562	(0.994)	84215	5.00000	4.8200
* 70 1,4-Dichlorobenzene-d4	152	19.680	19.680	(1.000)	587001	50.0000	
71 1,4-Dichlorobenzene	146	19.739	19.739	(1.003)	88728	5.00000	4.8320
72 n-Butylbenzene	91	20.183	20.183	(1.026)	128045	5.00000	4.7408
73 1,2-Dichlorobenzene	146	20.420	20.420	(1.038)	80026	5.00000	4.6447
74 1,2-Dibromo-3-Chloropropane	75	21.732	21.732	(1.104)	7002	5.00000	4.5612
75 1,2,4-Trichlorobenzene	180	23.280	23.280	(1.183)	50898	5.00000	4.5565
76 Hexachlorobutadiene	225	23.586	23.586	(1.198)	22549	5.00000	4.6605
77 Naphthalene	128	23.684	23.684	(1.203)	98857	5.00000	4.0940
78 1,2,3-Trichlorobenzene	180	24.148	24.148	(1.227)	46584	5.00000	4.5091

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSVOA09.i\112104.b\IKL08.D
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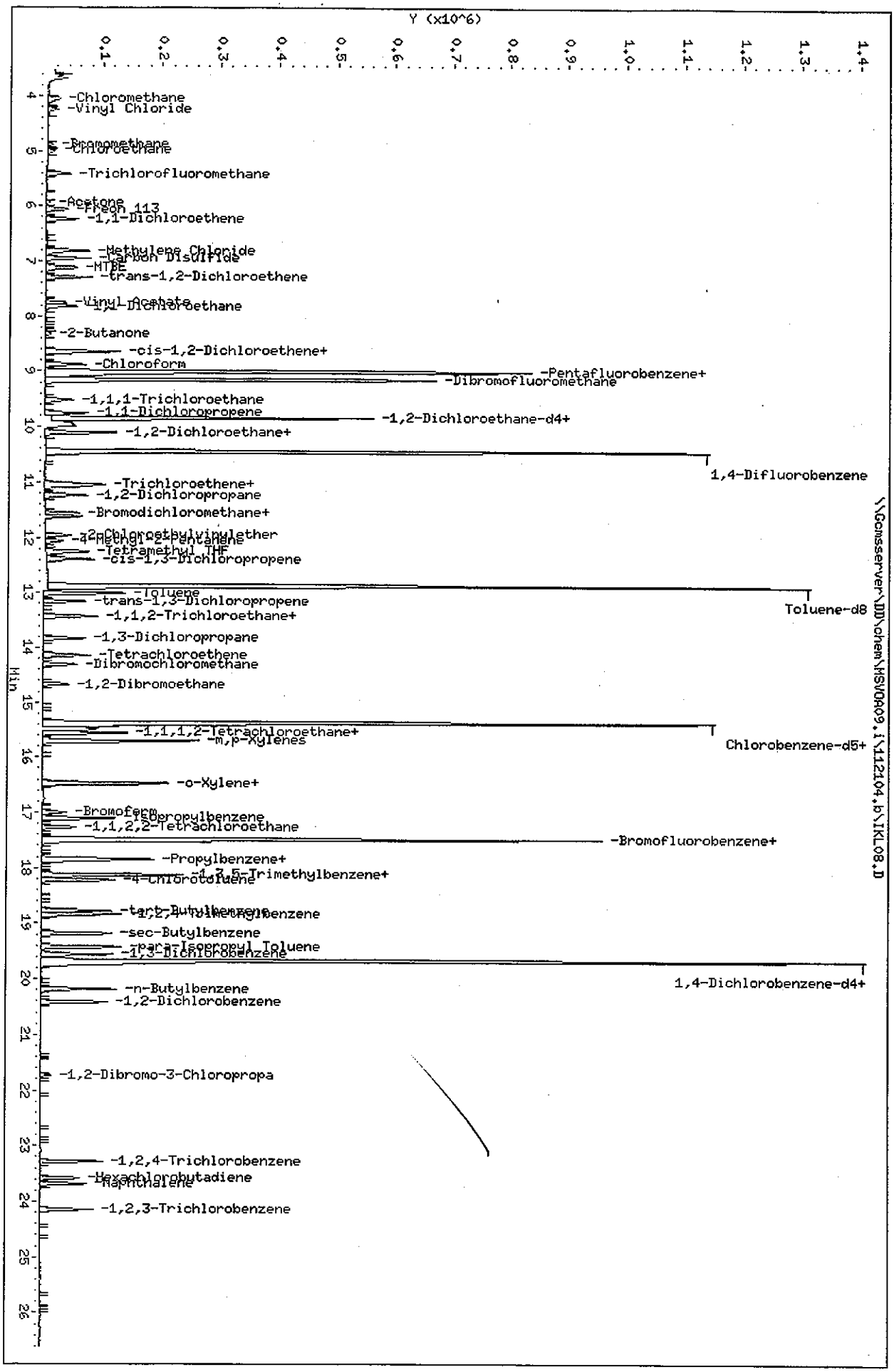
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: BO
Column diameter: 0.32



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Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 18:22 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICAL,04SS393,0.002/100,04WS2167A,0.004/100,
Misc Info : 04WS2204A,0.001/100,10PPB, NP NL
Comment :
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Meth Date : 22-Nov-2004 08:35 target Quant Type: ISTD
Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

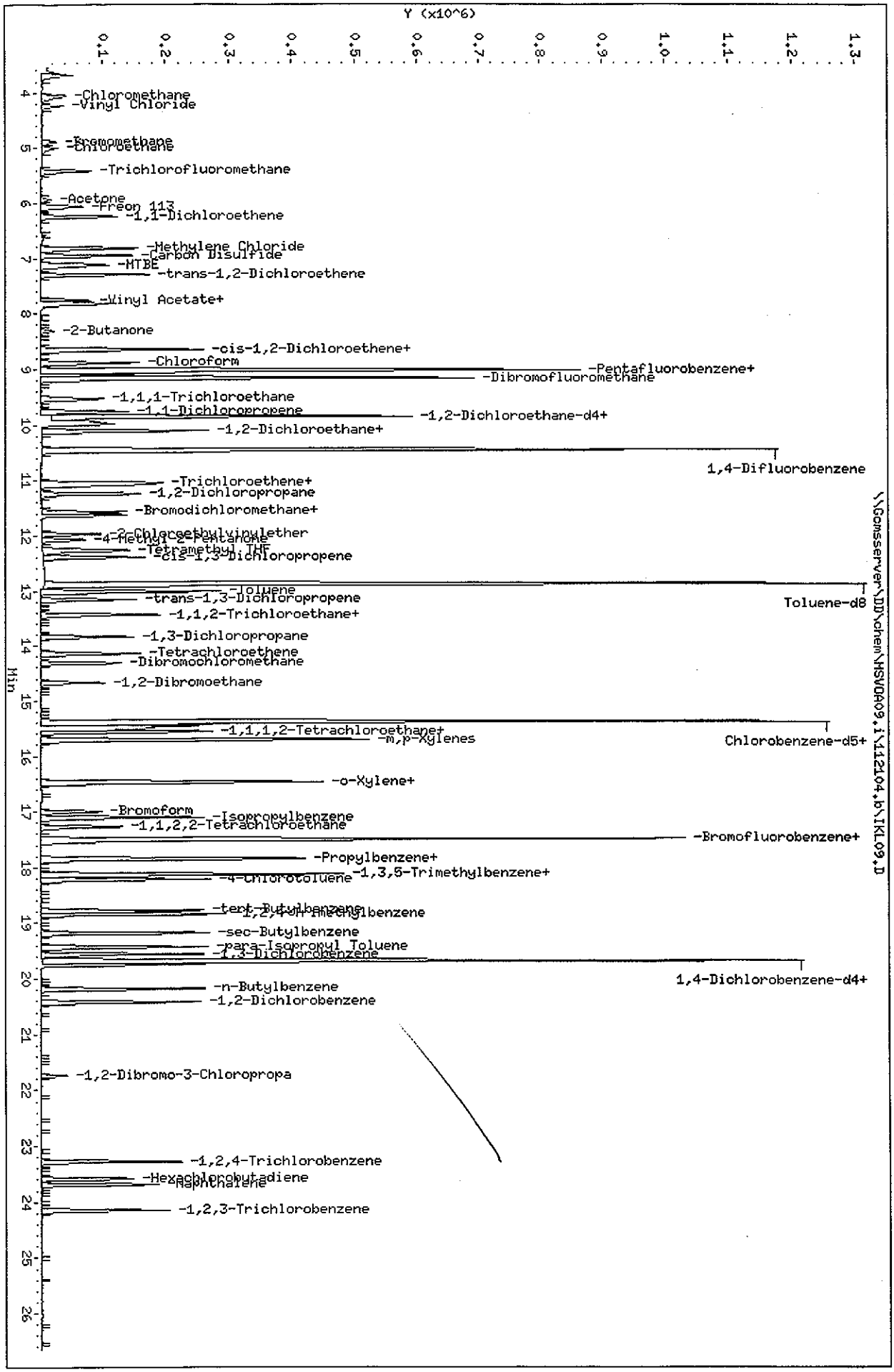
Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.689	3.689	(0.409)	67430	10.0000	8.7087
2 Chloromethane	50	4.054	4.054	(0.449)	97786	10.0000	10.5583
3 Vinyl Chloride	62	4.241	4.241	(0.470)	57713	10.0000	10.1195
4 Bromomethane	94	4.882	4.882	(0.541)	32433	10.0000	8.6032
5 Chloroethane	64	4.990	4.990	(0.553)	40078	10.0000	10.0197(M)
6 Trichlorofluoromethane	101	5.415	5.415	(0.600)	99822	10.0000	9.1716
7 Acetone	43	5.927	5.927	(0.657)	28956	10.0000	11.5046
8 Freon 113	101	6.065	6.065	(0.672)	60063	10.0000	9.0276
9 1,1-Dichloroethene	96	6.243	6.243	(0.692)	70175	10.0000	9.9625
10 Methylene Chloride	84	6.815	6.815	(0.755)	108501	10.0000	11.0710
11 Carbon Disulfide	76	6.953	6.953	(0.771)	291223	10.0000	9.9288
12 MTBE	73	7.121	7.121	(0.789)	194854	10.0000	10.5842
13 trans-1,2-Dichloroethene	96	7.298	7.298	(0.809)	87790	10.0000	10.4506
14 Vinyl Acetate	43	7.762	7.762	(0.860)	180738	10.0000	10.3928
15 1,1-Dichloroethane	63	7.821	7.821	(0.867)	175613	10.0000	10.8205
16 2-Butanone	43	8.314	8.314	(0.921)	43109	10.0000	10.6851

Data File: \\Comsserver\DD\chem\MSVOA09.i\112104.b\IKL09.D
Date : 21-NOV-2004 18:22
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.002/100,04MS2167A,0.004/100,
Purge Volume: 5.0
Column phase: RTX Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL09.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.659	8.659	(0.960)	97448	10.0000	10.3817
18 2,2-Dichloropropane	77	8.649	8.649	(0.958)	98739	10.0000	9.9515
19 Chloroform	83	8.886	8.886	(0.985)	170022	10.0000	10.5342
* 20 Pentafluorobenzene	168	9.024	9.024	(1.000)	953361	50.0000	
21 Bromochloromethane	128	9.083	9.083	(1.007)	60600	10.0000	10.5137
$ 22 Dibromofluoromethane	113	9.162	9.162	(1.015)	633234	50.0000	49.2272
23 1,1,1-Trichloroethane	97	9.527	9.527	(1.056)	99879	10.0000	9.7955
24 1,1-Dichloropropene	75	9.764	9.764	(0.934)	104201	10.0000	9.9053
$ 25 1,2-Dichloroethane-d4	65	9.853	9.853	(0.942)	555856	50.0000	51.6209
26 Carbon Tetrachloride	117	9.941	9.941	(0.951)	88142	10.0000	9.5433
27 1,2-Dichloroethane	62	9.991	9.991	(0.956)	110623	10.0000	10.6418
28 Benzene	78	10.109	10.109	(0.967)	336924	10.0000	10.8899
* 29 1,4-Difluorobenzene	114	10.454	10.454	(1.000)	1457902	50.0000	
30 Trichloroethene	95	11.036	11.036	(1.056)	91641	10.0000	10.0597
$ 31 Trifluorotoluene	146	11.075	11.075	(1.059)	100881	10.0000	9.3173
32 1,2-Dichloropropane	63	11.243	11.243	(1.075)	100060	10.0000	10.4818
33 Bromodichloromethane	83	11.569	11.569	(1.107)	123713	10.0000	10.6248
34 Dibromomethane	93	11.628	11.628	(1.112)	80304	10.0000	10.3415
35 2-Chloroethylvinylether	63	11.973	11.973	(1.145)	65097	10.0000	10.4619
36 4-Methyl-2-Pentanone	43	12.072	12.072	(1.155)	89947	10.0000	10.5127
37 Tetramethyl THF	43	12.269	12.269	(1.174)	181701	10.0000	10.4688
38 cis-1,3-Dichloropropene	75	12.397	12.397	(1.186)	147242	10.0000	10.5432
$ 39 Toluene-d8	98	12.880	12.880	(1.232)	1388236	50.0000	50.0598
40 Toluene	92	13.008	13.008	(1.244)	190703	10.0000	10.7298
41 trans-1,3-Dichloropropene	75	13.156	13.156	(1.258)	121875	10.0000	10.2480
42 1,1,2-Trichloroethane	85	13.433	13.433	(1.285)	52042	10.0000	10.5980
43 2-Hexanone	43	13.452	13.452	(0.874)	56761	10.0000	10.0864
44 1,3-Dichloropropane	76	13.837	13.837	(0.899)	131776	10.0000	10.4830
45 Tetrachloroethene	166	14.152	14.152	(0.920)	74451	10.0000	9.3116
46 Dibromochloromethane	129	14.320	14.320	(0.931)	112865	10.0000	10.7126
47 1,2-Dibromoethane	107	14.675	14.675	(1.404)	103366	10.0000	10.4775
* 48 Chlorobenzene-d5	117	15.385	15.385	(1.000)	1175604	50.0000	
49 Chlorobenzene	112	15.454	15.454	(1.004)	238137	10.0000	10.9833
50 1,1,1,2-Tetrachloroethane	131	15.504	15.504	(1.008)	83008	10.0000	10.3746
51 Ethylbenzene	91	15.563	15.563	(1.012)	327709	10.0000	9.6447
52 m,p-Xylenes	106	15.711	15.711	(1.021)	252421	20.0000	20.4461
53 o-Xylene	106	16.470	16.470	(1.071)	125252	10.0000	10.3481
54 Styrene	104	16.490	16.490	(1.072)	215111	10.0000	10.4206
55 Bromoform	173	17.003	17.003	(1.105)	76564	10.0000	10.1929
56 Isopropylbenzene	105	17.111	17.111	(0.869)	291579	10.0000	10.3819
57 1,1,2,2-Tetrachloroethane	83	17.269	17.269	(0.877)	124281	10.0000	11.4811
$ 58 Bromofluorobenzene	95	17.496	17.496	(0.889)	559640	50.0000	52.9169
59 1,2,3-Trichloropropane	110	17.535	17.535	(0.891)	23658	10.0000	11.2931
60 Propylbenzene	91	17.841	17.841	(0.906)	410164	10.0000	11.0106
61 Bromobenzene	156	17.861	17.861	(0.907)	108334	10.0000	11.2853
62 1,3,5-Trimethylbenzene	105	18.127	18.127	(0.921)	250840	10.0000	10.9049
63 2-Chlorotoluene	91	18.137	18.137	(0.921)	268274	10.0000	10.9866

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL10.D
Report Date: 22-Nov-2004 08:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.656	8.656	(0.960)	197351	20.0000	21.5896
	18 2,2-Dichloropropane	77	8.656	8.656	(0.960)	205587	20.0000	21.2767
	19 Chloroform	83	8.883	8.883	(0.985)	320994	20.0000	20.4221
*	20 Pentafluorobenzene	168	9.021	9.021	(1.000)	928430	50.0000	
	21 Bromochloromethane	128	9.080	9.080	(1.007)	113894	20.0000	20.2905
$	22 Dibromofluoromethane	113	9.169	9.169	(1.016)	634281	50.0000	50.6326
	23 1,1,1-Trichloroethane	97	9.534	9.534	(1.057)	207484	20.0000	20.8953
	24 1,1-Dichloropropene	75	9.761	9.761	(0.933)	203269	20.0000	18.6928
$	25 1,2-Dichloroethane-d4	65	9.859	9.859	(0.942)	546619	50.0000	49.1081
	26 Carbon Tetrachloride	117	9.938	9.938	(0.950)	186937	20.0000	19.5803
	27 1,2-Dichloroethane	62	9.988	9.988	(0.955)	218254	20.0000	20.3114
	28 Benzene	78	10.116	10.116	(0.967)	595199	20.0000	18.6105
*	29 1,4-Difluorobenzene	114	10.461	10.461	(1.000)	1507034	50.0000	
	30 Trichloroethene	95	11.033	11.033	(1.055)	187604	20.0000	19.9225
$	31 Trifluorotoluene	146	11.082	11.082	(1.059)	213015	20.0000	19.0327
	32 1,2-Dichloropropane	63	11.240	11.240	(1.074)	190628	20.0000	19.3182
	33 Bromodichloromethane	83	11.566	11.566	(1.106)	241883	20.0000	20.0962
	34 Dibromomethane	93	11.625	11.625	(1.111)	156465	20.0000	19.4926
	35 2-Chloroethylvinylether	63	11.970	11.970	(1.144)	124290	20.0000	19.3237
	36 4-Methyl-2-Pentanone	43	12.069	12.069	(1.154)	178177	20.0000	20.1459
	37 Tetramethyl THF	43	12.266	12.266	(1.173)	350387	20.0000	19.5296
	38 cis-1,3-Dichloropropene	75	12.394	12.394	(1.185)	278914	20.0000	19.3204
$	39 Toluene-d8	98	12.887	12.887	(1.232)	1410714	50.0000	49.2119
	40 Toluene	92	13.015	13.015	(1.244)	353865	20.0000	19.2610
	41 trans-1,3-Dichloropropene	75	13.153	13.153	(1.257)	248913	20.0000	20.2477
	42 1,1,2-Trichloroethane	85	13.439	13.439	(1.285)	101333	20.0000	19.9631
	43 2-Hexanone	43	13.449	13.449	(0.874)	115687	20.0000	19.8314
	44 1,3-Dichloropropane	76	13.844	13.844	(0.900)	252283	20.0000	19.3606
	45 Tetrachloroethene	166	14.150	14.150	(0.920)	157072	20.0000	18.9511
	46 Dibromochloromethane	129	14.317	14.317	(0.931)	214017	20.0000	19.5960
	47 1,2-Dibromoethane	107	14.672	14.672	(1.403)	199497	20.0000	19.5625
*	48 Chlorobenzene-d5	117	15.382	15.382	(1.000)	1218651	50.0000	
	49 Chlorobenzene	112	15.451	15.451	(1.004)	428613	20.0000	19.0701
	50 1,1,1,2-Tetrachloroethane	131	15.501	15.501	(1.008)	159601	20.0000	19.2429
	51 Ethylbenzene	91	15.570	15.570	(1.012)	676889	20.0000	19.2176
	52 m,p-Xylenes	106	15.708	15.708	(1.021)	529869	40.0000	41.4034
	53 o-Xylene	106	16.467	16.467	(1.071)	251057	20.0000	20.0093
	54 Styrene	104	16.487	16.487	(1.072)	424140	20.0000	19.8209
	55 Bromoform	173	17.000	17.000	(1.105)	145411	20.0000	18.6746
	56 Isopropylbenzene	105	17.108	17.108	(0.869)	616052	20.0000	20.8772
	57 1,1,2,2-Tetrachloroethane	83	17.276	17.276	(0.878)	230226	20.0000	20.2428
$	58 Bromofluorobenzene	95	17.493	17.493	(0.889)	544347	50.0000	48.9887
	59 1,2,3-Trichloropropane	110	17.532	17.532	(0.891)	44763	20.0000	20.3371
	60 Propylbenzene	91	17.838	17.838	(0.906)	767504	20.0000	19.6097
	61 Bromobenzene	156	17.868	17.868	(0.908)	202129	20.0000	20.0406
	62 1,3,5-Trimethylbenzene	105	18.134	18.134	(0.921)	483983	20.0000	20.0258
	63 2-Chlorotoluene	91	18.144	18.144	(0.922)	508569	20.0000	19.8230

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL10.D
Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL10.D
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Inj Date : 21-NOV-2004 18:57 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
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Comment :
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Meth Date : 22-Nov-2004 08:36 target Quant Type: ISTD
Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.686	3.686	(0.409)	169929	20.0000	22.5359
2 Chloromethane	50	4.051	4.051	(0.449)	187734	20.0000	20.8147
3 Vinyl Chloride	62	4.238	4.238	(0.470)	115614	20.0000	20.8164
4 Bromomethane	94	4.879	4.879	(0.541)	67911	20.0000	18.4980
5 Chloroethane	64	4.997	4.997	(0.554)	84699	20.0000	21.7439
6 Trichlorofluoromethane	101	5.421	5.421	(0.601)	224023	20.0000	21.1359
7 Acetone	43	5.934	5.934	(0.658)	49686	20.0000	20.2710
8 Freon 113	101	6.063	6.063	(0.672)	134647	20.0000	20.7813
9 1,1-Dichloroethene	96	6.240	6.240	(0.692)	133722	20.0000	19.4938
10 Methylene Chloride	84	6.822	6.822	(0.756)	200491	20.0000	21.0067
11 Carbon Disulfide	76	6.950	6.950	(0.770)	576145	20.0000	20.1704
12 MTBE	73	7.118	7.118	(0.789)	366016	20.0000	20.4154
13 trans-1,2-Dichloroethene	96	7.295	7.295	(0.809)	161293	20.0000	19.7161
14 Vinyl Acetate	43	7.759	7.759	(0.860)	367813	20.0000	21.7180
15 1,1-Dichloroethane	63	7.818	7.818	(0.867)	323490	20.0000	20.4674
16 2-Butanone	43	8.311	8.311	(0.921)	79943	20.0000	20.3470

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL09.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.226	18.226	(0.926)	249121	10.0000	10.6805
65 tert-Butylbenzene	119	18.778	18.778	(0.954)	219437	10.0000	11.0222
66 1,2,4-Trimethylbenzene	105	18.847	18.847	(0.957)	271782	10.0000	11.2264
67 sec-Butylbenzene	105	19.182	19.182	(0.974)	334561	10.0000	10.3107
68 para-Isopropyl Toluene	119	19.429	19.429	(0.987)	266519	10.0000	10.8160
69 1,3-Dichlorobenzene	146	19.567	19.567	(0.994)	186947	10.0000	11.4997
* 70 1,4-Dichlorobenzene-d4	152	19.685	19.685	(1.000)	546171	50.0000	
71 1,4-Dichlorobenzene	146	19.744	19.744	(1.003)	182663	10.0000	10.6912
72 n-Butylbenzene	91	20.188	20.188	(1.026)	267433	10.0000	10.6419
73 1,2-Dichlorobenzene	146	20.415	20.415	(1.037)	178447	10.0000	11.1314
74 1,2-Dibromo-3-Chloropropane	75	21.737	21.737	(1.104)	15603	10.0000	10.9239
75 1,2,4-Trichlorobenzene	180	23.285	23.285	(1.183)	112997	10.0000	10.8719
76 Hexachlorobutadiene	225	23.581	23.581	(1.198)	47344	10.0000	10.5167
77 Naphthalene	128	23.689	23.689	(1.203)	233922	10.0000	10.4117
78 1,2,3-Trichlorobenzene	180	24.153	24.153	(1.227)	103434	10.0000	10.7604

QC Flag Legend

M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL10.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.223	18.223	(0.926)	506701	20.0000	20.6762
65 tert-Butylbenzene	119	18.785	18.785	(0.954)	423213	20.0000	20.2328
66 1,2,4-Trimethylbenzene	105	18.844	18.844	(0.957)	522603	20.0000	20.5461
67 sec-Butylbenzene	105	19.189	19.189	(0.975)	664139	20.0000	19.4809
68 para-Isopropyl Toluene	119	19.426	19.426	(0.987)	525887	20.0000	20.3127
69 1,3-Dichlorobenzene	146	19.564	19.564	(0.994)	348976	20.0000	20.4314
* 70 1,4-Dichlorobenzene-d4	152	19.682	19.682	(1.000)	573844	50.0000	
71 1,4-Dichlorobenzene	146	19.741	19.741	(1.003)	355638	20.0000	19.8117
72 n-Butylbenzene	91	20.185	20.185	(1.026)	556657	20.0000	21.0827
73 1,2-Dichlorobenzene	146	20.422	20.422	(1.038)	315887	20.0000	18.7545
74 1,2-Dibromo-3-Chloropropane	75	21.734	21.734	(1.104)	31604	20.0000	21.0594
75 1,2,4-Trichlorobenzene	180	23.282	23.282	(1.183)	210518	20.0000	19.2781
76 Hexachlorobutadiene	225	23.588	23.588	(1.198)	92766	20.0000	19.6128
77 Naphthalene	128	23.686	23.686	(1.203)	497645	20.0000	21.0818
78 1,2,3-Trichlorobenzene	180	24.150	24.150	(1.227)	205657	20.0000	20.3632

Data File: \\Gcmsserver\DD\chem\HSVOA09.i\112104.b\IKL10.D
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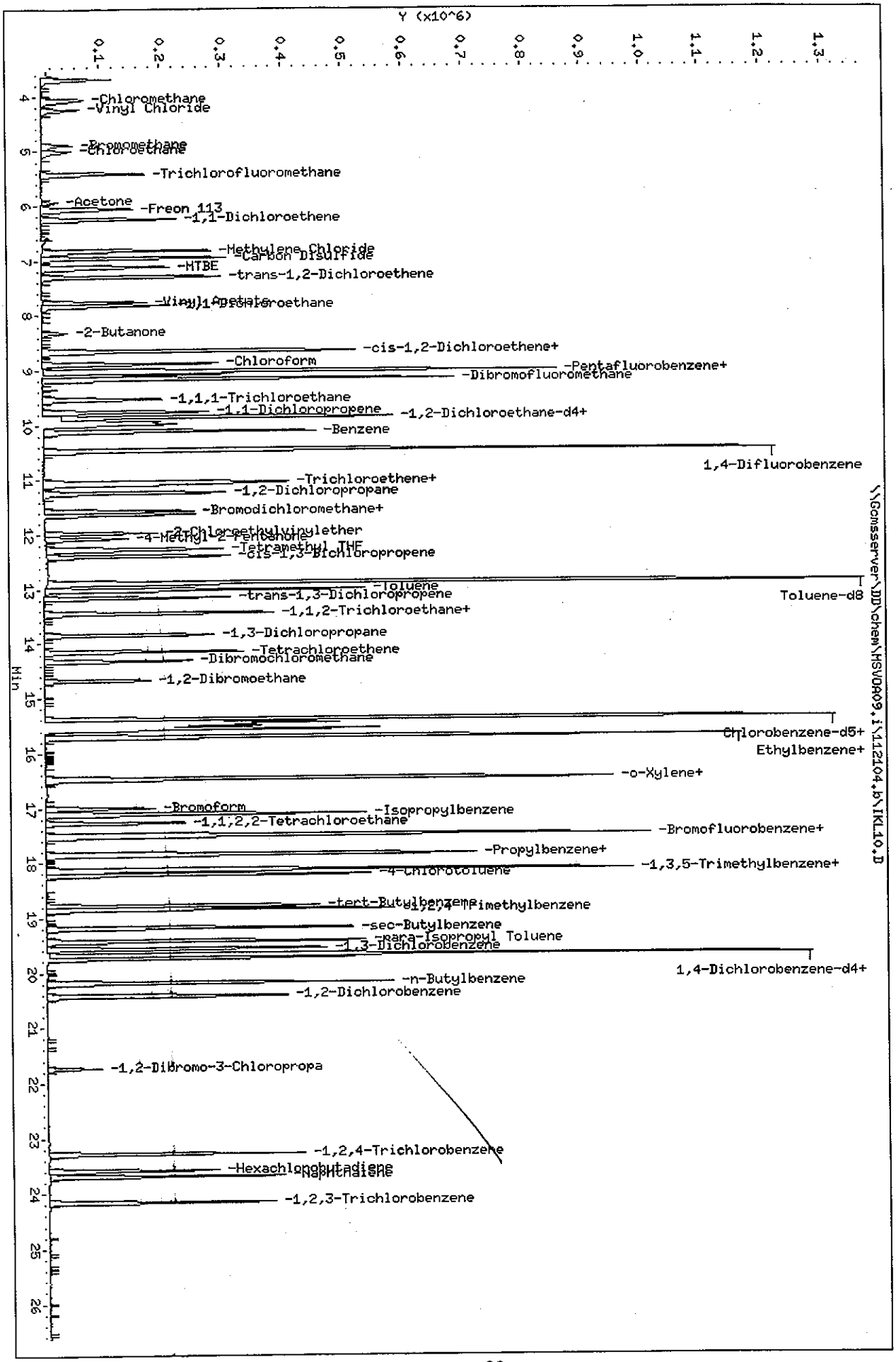
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL11.D
Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL11.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 19:31 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
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Misc Info : 04WS2204A,0.005/100,50PPB, NP NL
Comment :
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Meth Date : 22-Nov-2004 08:36 target Quant Type: ISTD
Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.680	3.680	(0.408)	440292	50.0000	54.6078
2 Chloromethane	50	4.055	4.055	(0.449)	450080	50.0000	46.6683
3 Vinyl Chloride	62	4.242	4.242	(0.470)	270647	50.0000	45.5726
4 Bromomethane	94	4.873	4.873	(0.540)	186689	50.0000	47.5564
5 Chloroethane	64	4.992	4.992	(0.553)	198955	50.0000	47.7661
6 Trichlorofluoromethane	101	5.416	5.416	(0.600)	612902	50.0000	54.0785
7 Acetone	43	5.929	5.929	(0.657)	119630	50.0000	45.6443
8 Freon 113	101	6.057	6.057	(0.671)	349171	50.0000	50.3988
9 1,1-Dichloroethene	96	6.244	6.244	(0.692)	367774	50.0000	50.1397
10 Methylene Chloride	84	6.816	6.816	(0.755)	491324	50.0000	48.1435
11 Carbon Disulfide	76	6.954	6.954	(0.771)	1444711	50.0000	47.3008
12 MTBE	73	7.122	7.122	(0.789)	961813	50.0000	50.1713
13 trans-1,2-Dichloroethene	96	7.299	7.299	(0.809)	425989	50.0000	48.6979
14 Vinyl Acetate	43	7.763	7.763	(0.860)	918422	50.0000	50.7156
15 1,1-Dichloroethane	63	7.822	7.822	(0.867)	820449	50.0000	48.5466
16 2-Butanone	43	8.305	8.305	(0.920)	205940	50.0000	49.0193

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL11.D
Report Date: 22-Nov-2004 08:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.651	8.651	(0.958)	470850	50.0000	48.1719
	18 2,2-Dichloropropane	77	8.651	8.651	(0.958)	505211	50.0000	48.8975
	19 Chloroform	83	8.887	8.887	(0.985)	813792	50.0000	48.4199
*	20 Pentafluorobenzene	168	9.025	9.025	(1.000)	992759	50.0000	
	21 Bromochloromethane	128	9.084	9.084	(1.007)	302365	50.0000	50.3767
$	22 Dibromofluoromethane	113	9.163	9.163	(1.015)	661395	50.0000	49.3759
	23 1,1,1-Trichloroethane	97	9.528	9.528	(1.056)	528423	50.0000	49.7681
	24 1,1-Dichloropropene	75	9.765	9.765	(0.934)	555509	50.0000	51.7295
$	25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.942)	561695	50.0000	51.0991
	26 Carbon Tetrachloride	117	9.933	9.933	(0.950)	478112	50.0000	50.7105
	27 1,2-Dichloroethane	62	9.992	9.992	(0.956)	540620	50.0000	50.9465
	28 Benzene	78	10.110	10.110	(0.967)	1488386	50.0000	47.1256
*	29 1,4-Difluorobenzene	114	10.455	10.455	(1.000)	1488261	50.0000	
	30 Trichloroethene	95	11.037	11.037	(1.056)	446520	50.0000	48.0162
$	31 Trifluorotoluene	146	11.077	11.077	(1.059)	569388	50.0000	51.5160
	32 1,2-Dichloropropane	63	11.244	11.244	(1.075)	482359	50.0000	49.4988
	33 Bromodichloromethane	83	11.570	11.570	(1.107)	590405	50.0000	49.6712
	34 Dibromomethane	93	11.629	11.629	(1.112)	406719	50.0000	51.3088
	35 2-Chloroethylvinylether	63	11.974	11.974	(1.145)	309415	50.0000	48.7125
	36 4-Methyl-2-Pentanone	43	12.073	12.073	(1.155)	452912	50.0000	51.8554
	37 Tetramethyl THF	43	12.270	12.270	(1.174)	899645	50.0000	50.7762
	38 cis-1,3-Dichloropropene	75	12.398	12.398	(1.186)	735547	50.0000	51.5943
$	39 Toluene-d8	98	12.891	12.891	(1.233)	1388269	50.0000	49.0398
	40 Toluene	92	13.010	13.010	(1.244)	842903	50.0000	46.4582
	41 trans-1,3-Dichloropropene	75	13.158	13.158	(1.258)	631161	50.0000	51.9893
	42 1,1,2-Trichloroethane	85	13.434	13.434	(1.285)	251705	50.0000	50.2127
	43 2-Hexanone	43	13.453	13.453	(0.874)	292015	50.0000	50.9019
	44 1,3-Dichloropropane	76	13.838	13.838	(0.899)	650328	50.0000	50.7486
	45 Tetrachloroethene	166	14.154	14.154	(0.920)	426547	50.0000	52.3316
	46 Dibromochloromethane	129	14.321	14.321	(0.931)	528109	50.0000	49.1703
	47 1,2-Dibromoethane	107	14.676	14.676	(1.404)	519722	50.0000	51.6063
*	48 Chlorobenzene-d5	117	15.386	15.386	(1.000)	1198447	50.0000	
	49 Chlorobenzene	112	15.455	15.455	(1.004)	1057628	50.0000	47.8501
	50 1,1,1,2-Tetrachloroethane	131	15.505	15.505	(1.008)	417068	50.0000	51.1333
	51 Ethylbenzene	91	15.564	15.564	(1.012)	1713700	50.0000	49.4742
	52 m,p-Xylenes	106	15.712	15.712	(1.021)	1271513	100.000	101.0296
	53 o-Xylene	106	16.471	16.471	(1.071)	642596	50.0000	52.0786
	54 Styrene	104	16.481	16.481	(1.071)	1086397	50.0000	51.6254
	55 Bromoform	173	17.004	17.004	(1.105)	397682	50.0000	51.9340
	56 Isopropylbenzene	105	17.112	17.112	(0.869)	1592658	50.0000	54.5090
	57 1,1,2,2-Tetrachloroethane	83	17.270	17.270	(0.877)	570392	50.0000	50.6499
$	58 Bromofluorobenzene	95	17.497	17.497	(0.889)	584157	50.0000	53.0933
	59 1,2,3-Trichloropropane	110	17.536	17.536	(0.891)	120418	50.0000	55.2525
	60 Propylbenzene	91	17.842	17.842	(0.906)	1995095	50.0000	51.4806
	61 Bromobenzene	156	17.872	17.872	(0.908)	515990	50.0000	51.6672
	62 1,3,5-Trimethylbenzene	105	18.128	18.128	(0.921)	1239850	50.0000	51.8106
	63 2-Chlorotoluene	91	18.138	18.138	(0.921)	1283379	50.0000	50.5201

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL11.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.227	18.227	(0.926)	1206405	50.0000	49.7166
65 tert-Butylbenzene	119	18.789	18.789	(0.954)	1084795	50.0000	52.3762
66 1,2,4-Trimethylbenzene	105	18.848	18.848	(0.957)	1283866	50.0000	50.9761
67 sec-Butylbenzene	105	19.183	19.183	(0.974)	1773841	50.0000	52.5478
68 para-Isopropyl Toluene	119	19.430	19.430	(0.987)	1289651	50.0000	50.3080
69 1,3-Dichlorobenzene	146	19.568	19.568	(0.994)	837727	50.0000	49.5331
* 70 1,4-Dichlorobenzene-d4	152	19.686	19.686	(1.000)	568204	50.0000	
71 1,4-Dichlorobenzene	146	19.746	19.746	(1.003)	899997	50.0000	50.6342
72 n-Butylbenzene	91	20.189	20.189	(1.026)	1340059	50.0000	51.2570
73 1,2-Dichlorobenzene	146	20.416	20.416	(1.037)	865409	50.0000	51.8903
74 1,2-Dibromo-3-Chloropropane	75	21.738	21.738	(1.104)	84555	50.0000	56.9028
75 1,2,4-Trichlorobenzene	180	23.286	23.286	(1.183)	580158	50.0000	53.6552
76 Hexachlorobutadiene	225	23.592	23.592	(1.198)	249127	50.0000	53.1940
77 Naphthalene	128	23.690	23.690	(1.203)	1264926	50.0000	54.1182
78 1,2,3-Trichlorobenzene	180	24.154	24.154	(1.227)	537856	50.0000	53.7846

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\112104.b\IKL11.D
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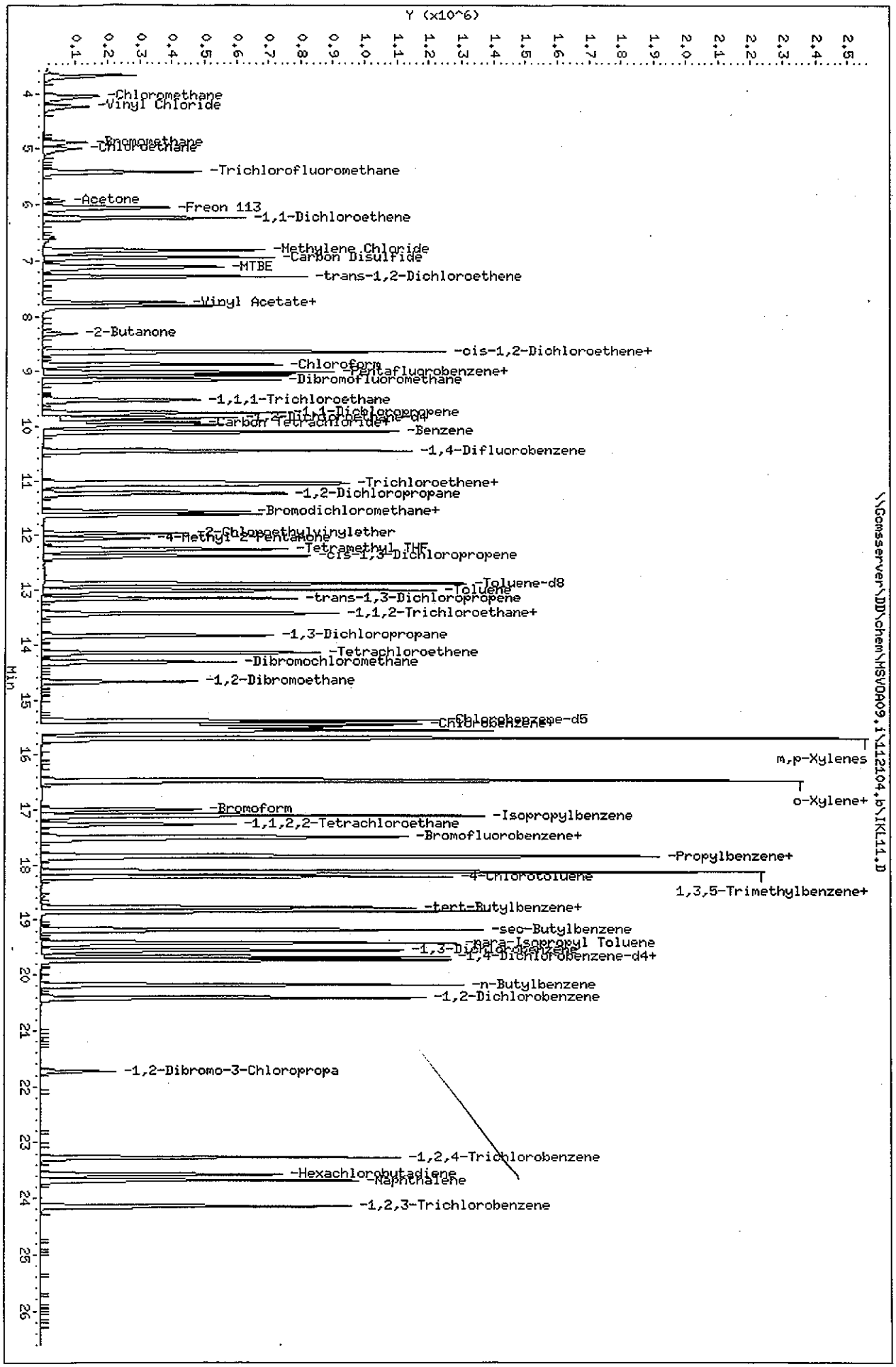
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



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Report Date: 22-Nov-2004 08:36

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Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL12.D
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Inj Date : 21-NOV-2004 20:06 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
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Misc Info : 04WS2204A,0.0075/100,75PPB, NP NL
Comment :
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Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.690	3.690	(0.409)	609433	75.0000	79.5408
2 Chloromethane	50	4.055	4.055	(0.449)	624329	75.0000	68.1234
3 Vinyl Chloride	62	4.232	4.232	(0.469)	348143	75.0000	61.6891
4 Bromomethane	94	4.883	4.883	(0.541)	320588	75.0000	85.9384
5 Chloroethane	64	5.002	5.002	(0.554)	294034	75.0000	74.2869
6 Trichlorofluoromethane	101	5.416	5.416	(0.600)	854958	75.0000	79.3831
7 Acetone	43	5.929	5.929	(0.657)	176034	75.0000	70.6794
8 Freon 113	101	6.057	6.057	(0.671)	551212	75.0000	83.7241
9 1,1-Dichloroethene	96	6.244	6.244	(0.692)	565349	75.0000	81.1087
10 Methylene Chloride	84	6.816	6.816	(0.755)	678483	75.0000	69.9614
11 Carbon Disulfide	76	6.954	6.954	(0.771)	2144372	75.0000	73.8819
12 MTBE	73	7.122	7.122	(0.789)	1334872	75.0000	73.2747
13 trans-1,2-Dichloroethene	96	7.300	7.300	(0.809)	610191	75.0000	73.4053
14 Vinyl Acetate	43	7.763	7.763	(0.860)	1321840	75.0000	76.8118
15 1,1-Dichloroethane	63	7.822	7.822	(0.867)	1146397	75.0000	71.3826
16 2-Butanone	43	8.306	8.306	(0.920)	309198	75.0000	77.4485

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL12.D
Report Date: 22-Nov-2004 08:36

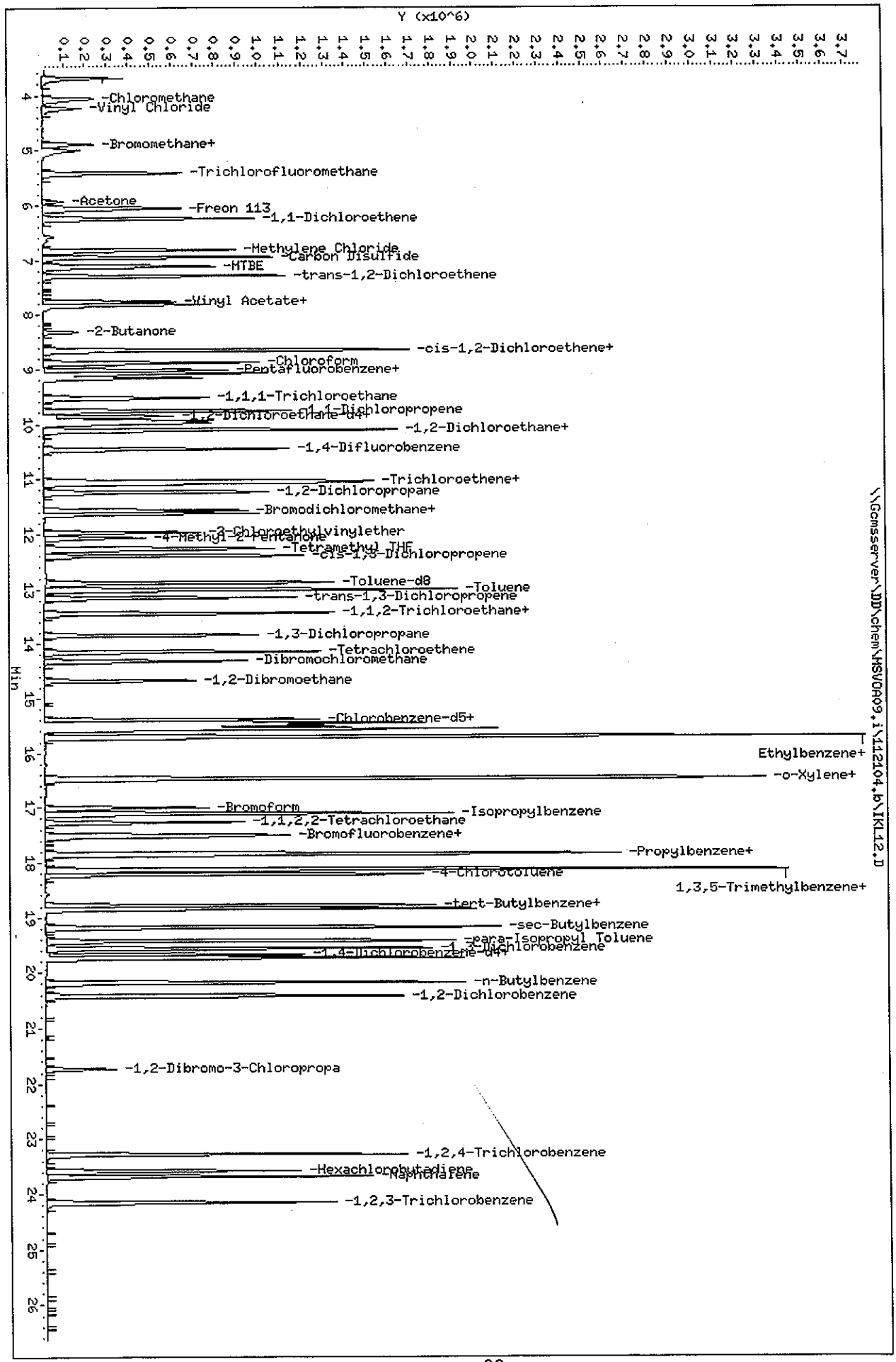
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.651	8.651	(0.958)	650889	75.0000	70.0759
18 2,2-Dichloropropane	77	8.651	8.651	(0.958)	713613	75.0000	72.6820
19 Chloroform	83	8.887	8.887	(0.985)	1108446	75.0000	69.4025
* 20 Pentafluorobenzene	168	9.025	9.025	(1.000)	943396	50.0000	
21 Bromochloromethane	128	9.085	9.085	(1.007)	416678	75.0000	73.0548
$ 22 Dibromofluoromethane	113	9.164	9.164	(1.015)	655402	50.0000	51.4887
23 1,1,1-Trichloroethane	97	9.528	9.528	(1.056)	783809	75.0000	77.6836
24 1,1-Dichloropropene	75	9.765	9.765	(0.934)	826763	75.0000	81.9191
$ 25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.942)	544167	50.0000	52.6746
26 Carbon Tetrachloride	117	9.943	9.943	(0.951)	758696	75.0000	85.6235
27 1,2-Dichloroethane	62	9.992	9.992	(0.956)	755403	75.0000	75.7458
28 Benzene	78	10.110	10.110	(0.967)	2185031	75.0000	73.6132
* 29 1,4-Difluorobenzene	114	10.456	10.456	(1.000)	1398692	50.0000	
30 Trichloroethene	95	11.037	11.037	(1.056)	688670	75.0000	78.7980
$ 31 Trifluorotoluene	146	11.077	11.077	(1.059)	881432	75.0000	84.8555
32 1,2-Dichloropropane	63	11.244	11.244	(1.075)	688331	75.0000	75.1586
33 Bromodichloromethane	83	11.570	11.570	(1.107)	874863	75.0000	78.3162
34 Dibromomethane	93	11.629	11.629	(1.112)	585667	75.0000	78.6150
35 2-Chloroethylvinylether	63	11.964	11.964	(1.144)	482162	75.0000	80.7698
36 4-Methyl-2-Pentanone	43	12.073	12.073	(1.155)	626810	75.0000	76.3613
37 Tetramethyl THF	43	12.260	12.260	(1.173)	1327974	75.0000	79.7509
38 cis-1,3-Dichloropropene	75	12.398	12.398	(1.186)	1064949	75.0000	79.4835
$ 39 Toluene-d8	98	12.882	12.882	(1.232)	1388385	50.0000	52.1846
40 Toluene	92	13.010	13.010	(1.244)	1339723	75.0000	78.5701
41 trans-1,3-Dichloropropene	75	13.158	13.158	(1.258)	922013	75.0000	80.8105
42 1,1,2-Trichloroethane	85	13.434	13.434	(1.285)	362477	75.0000	76.9413
43 2-Hexanone	43	13.454	13.454	(0.874)	413636	75.0000	73.9894
44 1,3-Dichloropropane	76	13.838	13.838	(0.899)	887681	75.0000	71.0838
45 Tetrachloroethene	166	14.154	14.154	(0.920)	631288	75.0000	79.4779
46 Dibromochloromethane	129	14.322	14.322	(0.931)	815863	75.0000	77.9505
47 1,2-Dibromoethane	107	14.677	14.677	(1.404)	740077	75.0000	78.1926
* 48 Chlorobenzene-d5	117	15.387	15.387	(1.000)	1167876	50.0000	
49 Chlorobenzene	112	15.456	15.456	(1.004)	1545432	75.0000	71.7500
50 1,1,1,2-Tetrachloroethane	131	15.505	15.505	(1.008)	586187	75.0000	73.7488
51 Ethylbenzene	91	15.564	15.564	(1.012)	2496129	75.0000	73.9491
52 m,p-Xylenes	106	15.712	15.712	(1.021)	1830633	150.000	149.2628
53 o-Xylene	106	16.471	16.471	(1.071)	911493	75.0000	75.8048
54 Styrene	104	16.491	16.491	(1.072)	1624366	75.0000	79.2102
55 Bromoform	173	17.004	17.004	(1.105)	587439	75.0000	78.7228
56 Isopropylbenzene	105	17.113	17.113	(0.870)	2218967	75.0000	76.0819
57 1,1,2,2-Tetrachloroethane	83	17.270	17.270	(0.878)	819523	75.0000	72.9041
$ 58 Bromofluorobenzene	95	17.497	17.497	(0.889)	552367	50.0000	50.2948
59 1,2,3-Trichloropropane	110	17.537	17.537	(0.891)	168554	75.0000	77.4791
60 Propylbenzene	91	17.842	17.842	(0.907)	2891002	75.0000	74.7332
61 Bromobenzene	156	17.862	17.862	(0.908)	721286	75.0000	72.3546
62 1,3,5-Trimethylbenzene	105	18.128	18.128	(0.921)	1884954	75.0000	78.9106
63 2-Chlorotoluene	91	18.138	18.138	(0.922)	1902160	75.0000	75.0138

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL12.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.227	18.227	(0.926)	1705190	75.0000	70.3990
65 tert-Butylbenzene	119	18.789	18.789	(0.955)	1695373	75.0000	82.0043
66 1,2,4-Trimethylbenzene	105	18.848	18.848	(0.958)	1920357	75.0000	76.3861
67 sec-Butylbenzene	105	19.184	19.184	(0.975)	2686536	75.0000	79.7293
68 para-Isopropyl Toluene	119	19.430	19.430	(0.987)	2008702	75.0000	78.4992
69 1,3-Dichlorobenzene	146	19.568	19.568	(0.994)	1310103	75.0000	77.6038
* 70 1,4-Dichlorobenzene-d4	152	19.677	19.677	(1.000)	567178	50.0000	
71 1,4-Dichlorobenzene	146	19.736	19.736	(1.003)	1379564	75.0000	77.7553
72 n-Butylbenzene	91	20.180	20.180	(1.026)	2031880	75.0000	77.8596
73 1,2-Dichlorobenzene	146	20.426	20.426	(1.038)	1271055	75.0000	76.3510
74 1,2-Dibromo-3-Chloropropane	75	21.728	21.728	(1.104)	118362	75.0000	79.7979
75 1,2,4-Trichlorobenzene	180	23.286	23.286	(1.183)	865447	75.0000	80.1846
76 Hexachlorobutadiene	225	23.582	23.582	(1.198)	384274	75.0000	82.1992
77 Naphthalene	128	23.691	23.691	(1.204)	1919394	75.0000	82.2673
78 1,2,3-Trichlorobenzene	180	24.154	24.154	(1.228)	767972	75.0000	76.9347

Data File: \\Comsserver\DD\chem\MSVOA09.i\112104.b\IKL12.D
Date : 21-NOV-2004 20:06
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.015/100,04WS2167A,0.030/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BD
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 20:40 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICAL,04SS393,0.020/100,04WS2167A,0.040/100,
Misc Info : 04WS2204A,0.010/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:36 target Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.680	3.680	(0.408)	825513	100.000	99.7542
2 Chloromethane	50	4.064	4.064	(0.450)	816101	100.000	82.4460
3 Vinyl Chloride	62	4.232	4.232	(0.469)	392026	100.000	64.3145
4 Bromomethane	94	4.883	4.883	(0.541)	465987	100.000	115.6531
5 Chloroethane	64	5.001	5.001	(0.554)	354212	100.000	82.8555
6 Trichlorofluoromethane	101	5.416	5.416	(0.600)	1125230	100.000	96.7315
7 Acetone	43	5.928	5.928	(0.657)	244412	100.000	90.8579
8 Freon 113	101	6.057	6.057	(0.671)	764704	100.000	107.5396
9 1,1-Dichloroethene	96	6.244	6.244	(0.692)	744437	100.000	98.8830
10 Methylene Chloride	84	6.816	6.816	(0.755)	895811	100.000	85.5223
11 Carbon Disulfide	76	6.954	6.954	(0.771)	2895028	100.000	92.3494
12 MTBE	73	7.122	7.122	(0.789)	1879047	100.000	95.4983
13 trans-1,2-Dichloroethene	96	7.299	7.299	(0.809)	847072	100.000	94.3464
14 Vinyl Acetate	43	7.763	7.763	(0.860)	1648415	100.000	88.6868
15 1,1-Dichloroethane	63	7.822	7.822	(0.867)	1501797	100.000	86.5788
16 2-Butanone	43	8.315	8.315	(0.921)	398363	100.000	92.3844

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Report Date: 22-Nov-2004 08:36

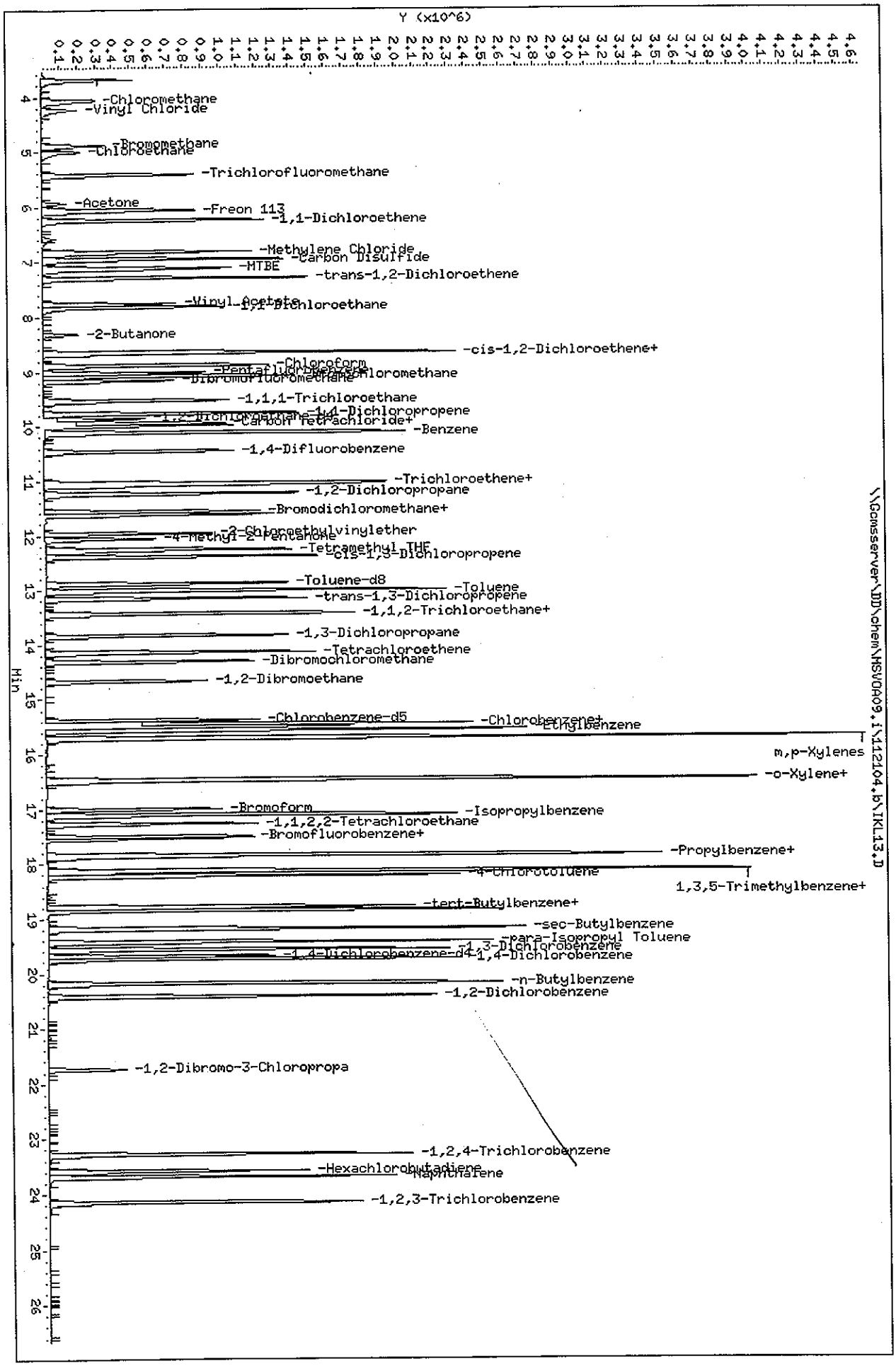
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.650	8.650	(0.958)	910998	100.000	90.8076
18 2,2-Dichloropropane	77	8.650	8.650	(0.958)	985082	100.000	92.8923
19 Chloroform	83	8.887	8.887	(0.985)	1486745	100.000	86.1867
* 20 Pentafluorobenzene	168	9.025	9.025	(1.000)	1018945	50.0000	
21 Bromochloromethane	128	9.084	9.084	(1.007)	586048	100.000	95.1315
$ 22 Dibromofluoromethane	113	9.163	9.163	(1.015)	657804	50.0000	47.8458
23 1,1,1-Trichloroethane	97	9.528	9.528	(1.056)	1075994	100.000	98.7352
24 1,1-Dichloropropene	75	9.765	9.765	(0.933)	1084512	100.000	102.4909
$ 25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.942)	535968	50.0000	49.4829
26 Carbon Tetrachloride	117	9.942	9.942	(0.950)	1014449	100.000	109.1949
27 1,2-Dichloroethane	62	9.992	9.992	(0.955)	1026273	100.000	98.1498
28 Benzene	78	10.120	10.120	(0.967)	2964813	100.000	95.2670
* 29 1,4-Difluorobenzene	114	10.465	10.465	(1.000)	1466477	50.0000	
30 Trichloroethene	95	11.037	11.037	(1.055)	892180	100.000	97.3651
$ 31 Trifluorotoluene	146	11.076	11.076	(1.058)	1159744	100.000	106.4879
32 1,2-Dichloropropane	63	11.234	11.234	(1.074)	934037	100.000	97.2731
33 Bromodichloromethane	83	11.570	11.570	(1.106)	1143039	100.000	97.5931
34 Dibromomethane	93	11.629	11.629	(1.111)	768102	100.000	98.3377
35 2-Chloroethylvinylether	63	11.974	11.974	(1.144)	648610	100.000	103.6303
36 4-Methyl-2-Pentanone	43	12.063	12.063	(1.153)	831701	100.000	96.6389
37 Tetramethyl THF	43	12.270	12.270	(1.172)	1631001	100.000	93.4216
38 cis-1,3-Dichloropropene	75	12.398	12.398	(1.185)	1358514	100.000	96.7073
$ 39 Toluene-d8	98	12.881	12.881	(1.231)	1468519	50.0000	52.6452
40 Toluene	92	13.009	13.009	(1.243)	1688976	100.000	94.4740
41 trans-1,3-Dichloropropene	75	13.157	13.157	(1.257)	1214227	100.000	101.5026
42 1,1,2-Trichloroethane	85	13.434	13.434	(1.284)	489683	100.000	99.1382
43 2-Hexanone	43	13.453	13.453	(0.874)	566339	100.000	104.1373
44 1,3-Dichloropropane	76	13.838	13.838	(0.899)	1235659	100.000	101.7163
45 Tetrachloroethene	166	14.153	14.153	(0.920)	797025	100.000	103.1500
46 Dibromochloromethane	129	14.321	14.321	(0.931)	1075962	100.000	105.6761
47 1,2-Dibromoethane	107	14.676	14.676	(1.402)	996578	100.000	100.4262
* 48 Chlorobenzene-d5	117	15.386	15.386	(1.000)	1136105	50.0000	
49 Chlorobenzene	112	15.455	15.455	(1.004)	2086165	100.000	99.5633
50 1,1,1,2-Tetrachloroethane	131	15.505	15.505	(1.008)	798543	100.000	103.2751
51 Ethylbenzene	91	15.564	15.564	(1.012)	3406953	100.000	103.7553
52 m,p-Xylenes	106	15.712	15.712	(1.021)	2223964	200.000	186.4044
53 o-Xylene	106	16.471	16.471	(1.071)	1138108	100.000	97.2983
54 Styrene	104	16.481	16.481	(1.071)	1992351	100.000	99.8715
55 Bromoform	173	17.004	17.004	(1.105)	793026	100.000	109.2455
56 Isopropylbenzene	105	17.112	17.112	(0.869)	2981553	100.000	98.1367
57 1,1,2,2-Tetrachloroethane	83	17.270	17.270	(0.877)	1125431	100.000	96.1098
$ 58 Bromofluorobenzene	95	17.497	17.497	(0.889)	554055	50.0000	48.4291
59 1,2,3-Trichloropropane	110	17.536	17.536	(0.891)	227402	100.000	100.3455
60 Propylbenzene	91	17.842	17.842	(0.906)	3693235	100.000	91.6496
61 Bromobenzene	156	17.872	17.872	(0.908)	984049	100.000	94.7618
62 1,3,5-Trimethylbenzene	105	18.128	18.128	(0.921)	2233498	100.000	89.7591
63 2-Chlorotoluene	91	18.138	18.138	(0.921)	2306590	100.000	87.3219

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.227	18.227	(0.926)	2313243	100.000	91.6797
65 tert-Butylbenzene	119	18.779	18.779	(0.954)	1948168	100.000	90.4599
66 1,2,4-Trimethylbenzene	105	18.848	18.848	(0.957)	2452279	100.000	93.6398
67 sec-Butylbenzene	105	19.183	19.183	(0.974)	3565363	100.000	101.5751
68 para-Isopropyl Toluene	119	19.430	19.430	(0.987)	2644575	100.000	99.2119
69 1,3-Dichlorobenzene	146	19.568	19.568	(0.994)	1738470	100.000	98.8561
* 70 1,4-Dichlorobenzene-d4	152	19.686	19.686	(1.000)	590828	50.0000	
71 1,4-Dichlorobenzene	146	19.745	19.745	(1.003)	1724976	100.000	93.3317
72 n-Butylbenzene	91	20.189	20.189	(1.026)	2691206	100.000	98.9964
73 1,2-Dichlorobenzene	146	20.426	20.426	(1.038)	1698874	100.000	97.9647
74 1,2-Dibromo-3-Chloropropane	75	21.738	21.738	(1.104)	156305	100.000	101.1604
75 1,2,4-Trichlorobenzene	180	23.286	23.286	(1.183)	1131041	100.000	100.5974
76 Hexachlorobutadiene	225	23.582	23.582	(1.198)	495736	100.000	101.7971
77 Naphthalene	128	23.690	23.690	(1.203)	2461811	100.000	101.2923
78 1,2,3-Trichlorobenzene	180	24.154	24.154	(1.227)	1031284	100.000	99.1776

Data File: \\Comsserver\DD\chem\MSVOA09.i\112104.b\IKL13.D
Date : 21-NOV-2004 20:40
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.020/100,04MS2167A,0.040/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB Injected : 21-NOV-2004 21:19
Seqnum : 484470109014 Filename : ikl14 Caltype : WATER
Calnum : 484470109001 Caldate : 21-NOV-2004
Standards: 04WS2093C (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	34.38790	ug/L	-31	30	v- ***
Chloromethane	50.00000	37.86670	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	43.13430	ug/L	-14	20	
Bromomethane	50.00000	56.91600	ug/L	14	30	
Chloroethane	50.00000	45.20230	ug/L	-10	30	
Trichlorofluoromethane	50.00000	46.64910	ug/L	-7	30	
Dibromofluoromethane	50.00000	44.08790	ug/L	-12	30	
1,2-Dichloroethane-d4	50.00000	48.18530	ug/L	-4	30	
Toluene-d8	50.00000	48.99340	ug/L	-2	30	
Bromofluorobenzene	50.00000	47.75320	ug/L	-4	30	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1014578	2.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1494029	0.39	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1206472	0.67	15.39	15.39	0.00
1,4-Dichlorobenzene-d4	568204	600946	5.76	19.69	19.69	0.00

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Page 1 of 1

8260 w 10ac

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	44.59970	ug/L	-11	40	
Freon 113	50.00000	52.27680	ug/L	5	30	
1,1-Dichloroethene	50.00000	44.05450	ug/L	-12	20	
Methylene Chloride	50.00000	41.68240	ug/L	-17	30	
Carbon Disulfide	50.00000	36.01470	ug/L	-28	30	!v-
MTBE	50.00000	49.11350	ug/L	-2	30	
trans-1,2-Dichloroethene	50.00000	44.12140	ug/L	-12	30	
Vinyl Acetate	50.00000	44.10440	ug/L	-12	40	
1,1-Dichloroethane	50.00000	42.86250	ug/L	-14	30	
2-Butanone	50.00000	46.86130	ug/L	-6	40	
2,2-Dichloropropane	50.00000	42.79560	ug/L	-14	30	
cis-1,2-Dichloroethene	50.00000	44.58400	ug/L	-11	30	
Chloroform	50.00000	40.71470	ug/L	-19	20	
Bromochloromethane	50.00000	44.24340	ug/L	-12	30	
1,1,1-Trichloroethane	50.00000	46.64680	ug/L	-7	30	
1,1-Dichloropropene	50.00000	48.28790	ug/L	-3	30	
Carbon Tetrachloride	50.00000	52.61100	ug/L	5	30	
1,2-Dichloroethane	50.00000	45.94130	ug/L	-8	30	
Benzene	50.00000	49.45180	ug/L	-1	30	
Trichloroethene	50.00000	49.55640	ug/L	-1	30	
1,2-Dichloropropane	50.00000	48.86640	ug/L	-2	20	
Bromodichloromethane	50.00000	48.91790	ug/L	-2	30	
Dibromomethane	50.00000	49.26520	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	15.98140	ug/L	-68	40	v- ***
4-Methyl-2-Pentanone	50.00000	50.90330	ug/L	2	40	
Tetramethyl THF	50.00000	49.03710	ug/L	-2	30	
cis-1,3-Dichloropropene	50.00000	48.98030	ug/L	-2	30	
Toluene	50.00000	50.66520	ug/L	1	20	
trans-1,3-Dichloropropene	50.00000	47.59550	ug/L	-5	30	
1,1,2-Trichloroethane	50.00000	53.18380	ug/L	6	30	
2-Hexanone	50.00000	51.15600	ug/L	2	40	
1,3-Dichloropropane	50.00000	43.85980	ug/L	-12	30	
Tetrachloroethene	50.00000	49.36900	ug/L	-1	30	
Dibromochloromethane	50.00000	47.64990	ug/L	-5	30	
1,2-Dibromoethane	50.00000	50.73340	ug/L	1	30	
Chlorobenzene	50.00000	45.07780	ug/L	-10	30	
1,1,1,2-Tetrachloroethane	50.00000	47.30650	ug/L	-5	30	
Ethylbenzene	50.00000	47.99840	ug/L	-4	20	
m,p-Xylenes	100.0000	92.15590	ug/L	-8	30	
o-Xylene	50.00000	44.78060	ug/L	-10	30	
Styrene	50.00000	47.16190	ug/L	-6	30	
Bromoform	50.00000	48.96620	ug/L	-2	30	
Isopropylbenzene	50.00000	43.46750	ug/L	-13	30	
1,1,2,2-Tetrachloroethane	50.00000	45.24820	ug/L	-10	30	
1,2,3-Trichloropropane	50.00000	45.77170	ug/L	-8	30	
Propylbenzene	50.00000	48.14630	ug/L	-4	30	
Bromobenzene	50.00000	49.60180	ug/L	-1	30	

!=warning -=low bias v=ICV

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11/22/04

8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	48.55720	ug/L	-3	30	
2-Chlorotoluene	50.00000	45.52670	ug/L	-9	30	
4-Chlorotoluene	50.00000	46.73920	ug/L	-7	30	
tert-Butylbenzene	50.00000	47.08890	ug/L	-6	30	
1,2,4-Trimethylbenzene	50.00000	47.63740	ug/L	-5	30	
sec-Butylbenzene	50.00000	46.39300	ug/L	-7	30	
para-Isopropyl Toluene	50.00000	45.37760	ug/L	-9	30	
1,3-Dichlorobenzene	50.00000	47.82840	ug/L	-4	30	
1,4-Dichlorobenzene	50.00000	45.70340	ug/L	-9	30	
n-Butylbenzene	50.00000	49.55680	ug/L	-1	30	
1,2-Dichlorobenzene	50.00000	47.21460	ug/L	-6	30	
1,2-Dibromo-3-Chloropropane	50.00000	48.61860	ug/L	-3	30	
1,2,4-Trichlorobenzene	50.00000	50.59590	ug/L	1	30	
Hexachlorobutadiene	50.00000	52.53790	ug/L	5	30	
Naphthalene	50.00000	46.10110	ug/L	-8	30	
1,2,3-Trichlorobenzene	50.00000	50.61160	ug/L	1	30	
Dibromofluoromethane	50.00000	45.18460	ug/L	-10	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	47.15140	ug/L	-6	30	(NOT USED)
Toluene-d8	50.00000	51.34820	ug/L	3	30	(NOT USED)
Bromofluorobenzene	50.00000	48.96160	ug/L	-2	30	(NOT USED)

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1034484	4.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1417615	-4.75	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1227374	2.41	15.39	15.38	-0.01
1,4-Dichlorobenzene-d4	568204	589573	3.76	19.69	19.68	-0.01

!=warning -=low bias v=ICV
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 37.5/40PPB IDF : 1.0
Seqnum : 484472854003 Filename : ikn03 Injected : 23-NOV-2004 09:44
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04SS408 (13333X), 04WS2167A (6667X), 04WS2204A (25000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4061	0.4760	37.50000	43.95970	ug/L	17	30	0.0500	
Chloromethane	0.4857	0.5012	37.50000	38.69650	ug/L	3	30	0.1000	
Vinyl Chloride	0.2991	0.2914	37.50000	36.53340	ug/L	-3	20	0.0500	
Bromomethane	0.1977	0.1934	37.50000	36.68570	ug/L	-2	30	0.0500	
Chloroethane	0.2098	0.2121	37.50000	37.92220	ug/L	1	30	0.0500	
Trichlorofluoromethane	0.5708	0.5780	37.50000	37.97510	ug/L	1	30	0.0500	
Acetone	0.1320	0.1363	37.50000	38.72490	ug/L	3	40	0.0500	
Freon 113	0.3489	0.3090	37.50000	33.21350	ug/L	-11	30	0.0500	
1,1-Dichloroethene	0.3694	0.3145	37.50000	31.92070	ug/L	-15	20	0.0500	
Methylene Chloride	0.5140	0.4501	37.50000	32.83880	ug/L	-12	30	0.0500	
Carbon Disulfide	1.5383	1.2483	37.50000	30.43050	ug/L	-19	30	0.0500	
MTBE	0.9655	0.8118	37.50000	31.52930	ug/L	-16	30	0.0500	
trans-1,2-Dichloroethene	0.4406	0.3735	37.50000	31.79160	ug/L	-15	30	0.0500	
Vinyl Acetate	0.9121	0.8189	37.50000	33.66760	ug/L	-10	40	0.0500	
1,1-Dichloroethane	0.8512	0.7201	37.50000	31.72360	ug/L	-15	30	0.1000	
2-Butanone	0.2116	0.2029	37.50000	35.95910	ug/L	-4	40	0.0500	
2,2-Dichloropropane	0.5204	0.4547	37.50000	32.77030	ug/L	-13	30	0.0500	
cis-1,2-Dichloroethene	0.4923	0.3924	37.50000	29.89140	ug/L	-20	30	0.0500	
Chloroform	0.8465	0.6816	37.50000	30.19620	ug/L	-19	20	0.0500	
Bromochloromethane	0.3023	0.2486	37.50000	30.83610	ug/L	-18	30	0.0500	
1,1,1-Trichloroethane	0.5348	0.4688	37.50000	32.87430	ug/L	-12	30	0.0500	
1,1-Dichloropropene	0.3608	0.3265	37.50000	33.93350	ug/L	-10	30	0.0500	
Carbon Tetrachloride	0.3168	0.2998	37.50000	35.49870	ug/L	-5	30	0.0500	
1,2-Dichloroethane	0.3565	0.3460	37.50000	36.39090	ug/L	-3	30	0.0500	
Benzene	1.0611	1.0092	37.50000	35.66490	ug/L	-5	30	0.0500	
Trichloroethene	0.3124	0.2942	37.50000	35.31150	ug/L	-6	30	0.0500	
1,2-Dichloropropane	0.3274	0.3197	37.50000	36.61850	ug/L	-2	20	0.0500	
Bromodichloromethane	0.3993	0.3754	37.50000	35.24990	ug/L	-6	30	0.0500	
Dibromomethane	0.2663	0.2508	37.50000	35.31620	ug/L	-6	30	0.0500	
2-Chloroethylvinylether	0.2134	0.1995	40.00000	37.39580	ug/L	-7	40	0.0500	
4-Methyl-2-Pentanone	0.2934	0.2962	37.50000	37.84970	ug/L	1	40	0.0500	
Tetramethyl THF	0.5953	0.5890	37.50000	37.10860	ug/L	-1	30	0.0500	
cis-1,3-Dichloropropene	0.4790	0.4554	37.50000	35.65300	ug/L	-5	30	0.0500	
Toluene	0.6095	0.5547	37.50000	34.12540	ug/L	-9	20	0.0500	
trans-1,3-Dichloropropene	0.4079	0.3879	37.50000	35.66470	ug/L	-5	30	0.0500	
1,1,2-Trichloroethane	0.1684	0.1569	37.50000	34.93890	ug/L	-7	30	0.0500	
2-Hexanone	0.2393	0.2586	37.50000	40.51630	ug/L	8	40	0.0500	
1,3-Dichloropropane	0.5346	0.5517	37.50000	38.69720	ug/L	3	30	0.0500	
Tetrachloroethene	0.3401	0.3424	37.50000	37.75560	ug/L	1	30	0.0500	
Dibromochloromethane	0.4481	0.4448	37.50000	37.22740	ug/L	-1	30	0.0500	
1,2-Dibromoethane	0.3383	0.3216	37.50000	35.63870	ug/L	-5	30	0.0500	
Chlorobenzene	0.9221	0.9184	37.50000	37.34720	ug/L	0	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3403	0.3382	37.50000	37.26820	ug/L	-1	30	0.0500	
Ethylbenzene	1.4451	1.4204	37.50000	36.85930	ug/L	-2	20	0.0500	
m,p-Xylenes	0.5251	0.4725	75.00000	67.49480	ug/L	-10	30	0.0500	
o-Xylene	0.5148	0.5305	37.50000	38.64260	ug/L	3	30	0.0500	

11/23/04

11/23/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 37.5/40PPB IDF : 1.0
Seqnum : 484472854003 Filename : ikn03 Injected : 23-NOV-2004 09:44
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04SS408 (13333X), 04WS2167A (6667X), 04WS2204A (25000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.8780	0.9198	37.50000	39.28630	ug/L	5	30	0.0500	
Bromoform	0.3195	0.3088	37.50000	36.24380	ug/L	-3	30	0.1000	
Isopropylbenzene	2.5711	2.8048	37.50000	40.90770	ug/L	9	30	0.0500	
1,1,2,2-Tetrachloroethane	0.9910	1.0452	37.50000	39.55170	ug/L	5	30	0.3000	
1,2,3-Trichloropropane	0.1918	0.2055	37.50000	40.17560	ug/L	7	30	0.0500	
Propylbenzene	3.4102	3.5999	37.50000	39.58600	ug/L	6	30	0.0500	
Bromobenzene	0.8788	0.8760	37.50000	37.37840	ug/L	0	30	0.0500	
1,3,5-Trimethylbenzene	2.1058	2.0843	37.50000	37.11750	ug/L	-1	30	0.0500	
2-Chlorotoluene	2.2354	2.2353	37.50000	37.49900	ug/L	0	30	0.0500	
4-Chlorotoluene	2.1353	2.0563	37.50000	36.11240	ug/L	-4	30	0.0500	
tert-Butylbenzene	1.8225	2.0807	37.50000	42.81200	ug/L	14	30	0.0500	
1,2,4-Trimethylbenzene	2.2162	2.2338	37.50000	37.79640	ug/L	1	30	0.0500	
sec-Butylbenzene	2.9705	3.0085	37.50000	37.98020	ug/L	1	30	0.0500	
para-Isopropyl Toluene	2.2558	2.3368	37.50000	38.84600	ug/L	4	30	0.0500	
1,3-Dichlorobenzene	1.4882	1.5296	37.50000	38.54340	ug/L	3	30	0.0500	
1,4-Dichlorobenzene	1.5641	1.6772	37.50000	40.21260	ug/L	7	30	0.0500	
n-Butylbenzene	2.3006	2.5317	37.50000	41.26790	ug/L	10	30	0.0500	
1,2-Dichlorobenzene	1.4676	1.5629	37.50000	39.93630	ug/L	6	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1308	0.1483	37.50000	42.52960	ug/L	13	30	0.0500	
1,2,4-Trichlorobenzene	0.9515	1.0063	37.50000	39.66250	ug/L	6	30	0.0500	
Hexachlorobutadiene	0.4121	0.4461	37.50000	40.59100	ug/L	8	30	0.0500	
Naphthalene	2.0568	2.1599	37.50000	39.38060	ug/L	5	30	0.0500	
1,2,3-Trichlorobenzene	0.8800	0.9651	37.50000	41.12940	ug/L	10	30	0.0500	
Dibromofluoromethane	0.6746	0.6301	50.00000	46.70020	ug/L	-7	30	0.0500	
1,2-Dichloroethane-d4	0.3693	0.4067	50.00000	55.06830	ug/L	10	30	0.0500	
Trifluorotoluene	0.3713	0.3606	37.50000	36.41980	ug/L	-3	30	0.0500	
Toluene-d8	0.9511	0.9497	50.00000	49.92810	ug/L	0	30	0.0500	
Bromofluorobenzene	0.9682	0.9998	50.00000	51.63360	ug/L	3	30	0.0500	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1089979	9.79	9.03	9.01	-0.02
1,4-Difluorobenzene	1488261	1534498	3.11	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1172584	-2.16	15.39	15.37	-0.02
1,4-Dichlorobenzene-d4	568204	536695	-5.55	19.69	19.66	-0.03

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-NOV-2004
Sequence: 484472854 (ikn)
Instrument ID: MSVOA09

ICAL Filename: ikl11
Date Analyzed: 21-NOV-2004
Time Analyzed: 19:31

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	992759	9.03	1488261	10.46	1198447	15.39	568204	19.69
LOWER LIMIT	496380	8.53	744131	9.96	599224	14.89	284102	19.19
UPPER LIMIT	1985518	9.53	2976522	10.96	2396894	15.89	1136408	20.19

TYPE	SAMPLE	#								
CCV/LCS	QC273549	003	1089979	9.01	1534498	10.44	1172584	15.37	536695	19.66
BLANK	QC273531	005	1002898	9.01	1540129	10.45	1140104	15.37	546012	19.67
SAMPLE	176210-012	006	1016691	9.01	1527160	10.44	1194479	15.37	537558	19.67
SAMPLE	176207-003	007	997605	9.01	1503804	10.45	1080604	15.37	543267	19.67
MSS	176174-003	008	973822	9.01	1498310	10.45	1136878	15.38	524449	19.67
SAMPLE	176069-017	009	1004602	9.01	1534783	10.44	1164190	15.37	526738	19.67
MS	QC273547	010	991424	9.01	1424770	10.45	1155101	15.37	546792	19.67
MSD	QC273548	011	1039112	9.02	1565262	10.45	1231181	15.38	566447	19.68
CCV	37.5/40PPB	013	1129145	9.01	1644918	10.45	1179265	15.37	562005	19.67
CCV	37.5/40PPB	015	1235331	9.02	1885426	10.45	1391820	15.38	674341	19.68
BLANK	QC273532	017	1281081	9.01	1877259	10.45	1445699	15.37	654152	19.67
SAMPLE	176174-001	018	1195855	9.01	1835973	10.45	1424353	15.37	616965	19.67
SAMPLE	176206-001	019	1200937	9.01	1786293	10.45	1417445	15.37	647755	19.67
SAMPLE	176206-002	020	1212514	9.01	1837480	10.45	1350704	15.37	594633	19.67
SAMPLE	176174-004	021	1213750	9.01	1896451	10.45	1388743	15.37	678164	19.67
SAMPLE	176174-005	022	1227458	9.01	1809854	10.45	1365337	15.38	625020	19.67
SAMPLE	176117-009	023	1213157	9.01	1881220	10.45	1433048	15.37	643000	19.67
SAMPLE	176117-010	024	1209170	9.01	1782550	10.44	1418089	15.37	670266	19.67
SAMPLE	176117-011	025	1303999	9.01	1924706	10.44	1497110	15.37	655557	19.67
SAMPLE	176207-001	026	1324537	9.01	1798562	10.44	1362096	15.37	675840	19.66
SAMPLE	176207-002	027	1360080	9.01	1856213	10.45	1458593	15.37	711826	19.67
SAMPLE	176003-013	028	1276631	9.01	1886171	10.45	1362216	15.37	697356	19.67
SAMPLE	176003-014	029	1299487	9.01	1876694	10.44	1450799	15.37	661186	19.67
SAMPLE	176039-001	030	1207682	9.00	1868133	10.44	1383539	15.37	665015	19.66
SAMPLE	176066-003	031	1298586	9.00	1824449	10.44	1439043	15.37	672571	19.66
SAMPLE	176117-024	032	1318495	9.01	1939672	10.44	1423302	15.37	653777	19.67
SAMPLE	176081-001	036	1296923	9.00	1812552	10.44	1396270	15.36	650691	19.66
SAMPLE	176081-002	037	1308518	9.00	1873784	10.44	1443871	15.36	640039	19.66
SAMPLE	176081-003	038	1321914	9.00	1940743	10.44	1349374	15.36	645715	19.66

8260 w ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 484470109 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 21-NOV-2004

Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ikl01	X	IB			21-NOV-2004 11:09	1.0					1	
002	ikl02	X	LOW PT			21-NOV-2004 12:00	1.0					1	
003	ikl03	X	IB			21-NOV-2004 12:35	1.0					1	
004	ikl04	TUN	BFB			21-NOV-2004 15:29	1.0					2	
005	ikl05	X	IB			21-NOV-2004 16:02	1.0					1	
006	ikl06	X	CALIB IB			21-NOV-2004 16:36	1.0					1	
007	ikl07	ICAL	0.5/1PPB			21-NOV-2004 17:13	1.0					3 4 5 1	
008	ikl08	ICAL	5PPB			21-NOV-2004 17:48	1.0					3 4 5 1	
009	ikl09	ICAL	10PPB			21-NOV-2004 18:22	1.0					3 4 5 1	
010	ikl10	ICAL	20PPB			21-NOV-2004 18:57	1.0					3 4 5 1	
011	ikl11	ICAL	50PPB			21-NOV-2004 19:31	1.0					3 4 5 1	
012	ikl12	ICAL	75PPB			21-NOV-2004 20:06	1.0					3 4 5 1	
013	ikl13	ICAL	100PPB			21-NOV-2004 20:40	1.0					3 4 5 1	
014	ikl14	ICV	50PPB			21-NOV-2004 21:19	1.0	1	5000			6 1	
015	ikl15	ICV	50PPB			21-NOV-2004 21:54	1.0	1	5000			7 8 1	
016	ikl16	X	IB			21-NOV-2004 22:28	1.0					1	
017	ikl17	X	IB			21-NOV-2004 23:02	1.0					1	
018	ikl18	X	IB			21-NOV-2004 23:37	1.0					1	

* ICAL - OK
- UC to 75 ppb
- 3rd ion missing for: 1112 PCE ; Perform @ 0.5 ppb

* ICV - Fr 124, 2CLEVE 4, 1,5ACE - Cl Me 4, CS2 1

Stds used: 1=04WS2096 2=04WS1238 3=04SS393 4=04WS2167A 5=04WS2204A 6=04WS2093C 7=04WS1939B 8=04WS1940D

Analyst: [illegible] Date: 11/22/04

Page 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

12

Sequence: 484472854 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 23-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ikn01	X	IB			23-NOV-2004 08:54	1.0						1	
002	ikn02	TUN	BFB			23-NOV-2004 09:27	1.0						2	
003	ikn03	CCV/LCS	QC273549	96805	Water	23-NOV-2004 09:44	1.0	2		5000			3 4 5 1	
004	ikn04	X	IB			23-NOV-2004 10:21	1.0						1	
005	ikn05	BLANK	QC273531	96805	Water	23-NOV-2004 10:55	1.0		1	5000			1	
006	ikn06	SAMPLE	176210-012	96805	Water	23-NOV-2004 11:30	1.0			5000	A	<2	1	
007	ikn07	SAMPLE	176207-003	96805	Water	23-NOV-2004 12:04	1.0			5000	↓	↓	1	
008	ikn08	MSS	176174-003	96805	Water	23-NOV-2004 12:42	1.0		1	5000	C	7	1 - RR 1x, tol RPD out in MS/MSD	
009	ikn09	SAMPLE	176069-017	96805	Water	23-NOV-2004 13:17	1.0			5000	A	<2	1 1ml HS -	
010	ikn10	MS	QC273547	96805	Water	23-NOV-2004 13:51	1.0	2	2	5000	DEF	7	6 7 8 1 tol RPD out	
011	ikn11	MSD	QC273548	96805	Water	23-NOV-2004 14:27	1.0	2		5000	↓	↓	6 7 8 1 ↓	
012	ikn12	TUN	BFB			23-NOV-2004 14:59	1.0						2	
013	ikn13	CCV	37.5/40PPB			23-NOV-2004 15:17	1.0	1		5000			3 4 5 1 cc-	
014	ikn14 -	TUN	BFB adj tune			23-NOV-2004 15:55	1.0						2	
015	ikn15	CCV	37.5/40PPB			23-NOV-2004 16:13	1.0			5000			3 4 5 1	
016	ikn16	X	IB			23-NOV-2004 16:59	1.0						1	
017	ikn17	BLANK	QC273532	96805	Water	23-NOV-2004 17:35	1.0 not used			5000			1	
018	ikn18	SAMPLE	176174-001	96805	Water	23-NOV-2004 18:10	1.0			5000	A	<2	1 1ml HS -	
019	ikn19	SAMPLE	176206-001	96805	Water	23-NOV-2004 18:45	1.0			5000	C	↓	1	
020	ikn20	SAMPLE	176206-002	96805	Water	23-NOV-2004 19:19	1.0			5000	↓	↓	1	
021	ikn21	SAMPLE	176174-004	96805	Water	23-NOV-2004 19:53	1.0			5000	C	6	1 -	
022	ikn22	SAMPLE	176174-005	96805	Water	23-NOV-2004 20:27	1.0			5000	D	6	1 -	
023	ikn23	SAMPLE	176117-009	96805	Water	23-NOV-2004 21:03	1.0			5000	CF	<2	1 Silty	
024	ikn24	SAMPLE	176117-010	96805	Water	23-NOV-2004 21:37	1.0			5000	B	2.5	1	
025	ikn25	SAMPLE	176117-011	96805	Water	23-NOV-2004 22:11	1.0			5000	↓	<2	1	
026	ikn26	SAMPLE	176207-001	96805	Water	23-NOV-2004 22:45	1.0			5000	C	6	1 -	
027	ikn27	SAMPLE	176207-002	96805	Water	23-NOV-2004 23:19	1.0			5000	D	7	1 -	
028	ikn28	SAMPLE	176003-013	96805	Water	23-NOV-2004 23:53	1.0			5000	B	<2	1	
029	ikn29	SAMPLE	176003-014	96805	Water	24-NOV-2004 00:28	1.0			5000	A	↓	1 1ml HS -	
030	ikn30	SAMPLE	176039-001	96805	Water	24-NOV-2004 01:02	20.0 -			5000	C	<2	1	

Stds used: 1=04WS2096 2=04WS1238 3=04SS408 4=04WS2167A 5=04WS2204A 6=04WS2093C 7=04WS1939B 8=04WS1940D
Flags used: -=low bias <<t=out of clock cc=CCV CCC failure

~~(to use when MS/MSD - being RR for job 176174)~~
~~report L2 jobs passes initial w/ MB & LCS only QC per MCA 11/24/04 matrix limits~~

Analyst: BD Date: 11/24/04
Page 1 of 2

* ICAL - OK
* ICV - Fr12J, 2CLEVE ↓, USALE - CIMC↓, CS2↓
* CCVS - IKN03 - OK
IKN15 - OK, USALE - 11DCA↓

~~Validate batch w/ LCS only~~
Report MS/MSD W/ tol RPD out samples ND - ak 11/24/04
~~RR L3 or L4 samples. ok ak 11/24/04~~

REPORTING SUMMARY FOR 176210 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	C	V	B	C	F	A	F	D	M	C	M	D	V	D	M	D	D	T	B	T	D	C	D	B	T	D	B	D	M	D	B	D	T	H	D	P	D	E	C	T	E	X	X	S	T	I	P	T	P	B	T	C	C	B	T	B	C	D	D	B	D	D	T	H	N
				C	L	C	R	L	C	C	C	C	C	T	D	T	C	A	C	E	C	C	C	R	C	C	T	C	Z	C	C	D	B	I	C	Z	C	C	X	C	C	B	D	L	C	B	Y	Y	T	B	P	C	C	B	R	M	L	L	T	M	T	Y	C	C	T	C	B	C	C	A
				1	M		M	E	1	E	1	E	L	S	B	E		A	X	E	P	L	C	A	P	C	A		E	P	C	M	B	P	M	P	A	O	P	E	C	B	B	1	Z	L	L	Y	M	B	A	P	Z	B	B	B	B	B	B	B	M	B	B	B	B	C	B	B	P
				2	E		E	A	1		1	1	N		E	1		1		1	A	M	L	1	1	L	1			A	M	A	K	1	E	1	1	2	A		M		Z	1		M	O		E	Z		R	N	Z	1	Z	Z	Z	1	Z	P	Z	Z	Z	Z	P	1	U	H
Lab ID	Inst ID	Analyzed	IDF								2				2				3							2			2				2		3	2		3																				2	3		2	2			2	3	3			
176210-012	MSVOA09	11/23/04	11:30	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC273531	MSVOA09	11/23/04	10:55	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC273532	MSVOA09	11/23/04	17:35	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC273547	MSVOA09	11/23/04	13:51	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC273548	MSVOA09	11/23/04	14:27	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC273549	MSVOA09	11/23/04	09:44	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 11/23/04
PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	176069 -17		A	<2	1ml		9	RR 1X, CIO 12 1XE O.D 100ppb	
2	176039 -1		C	<2				RR 20x, O.D.	
3	176066 -3		A	<2	1ml			RR 33.3x, O.D.	RUSH due 11/24
4	176210 -12		A	<2				TB	
5	176206 -1		C					1X	
6	-2		C	6				1X	
7	176207 -1		D	7				1X	
8	-2		A	<2				1X	
9	-3		A	<2	1ml			TB	
10	176174 -1		CDEF	7				1x MSS/MS/MSD	
11	-3		C	6					
12	-4		C	6					
13	-5		D					1X Silty	
14	176117 -9	CF	B	<2 11/23/04				1X	
15	-10		B	2.5				PUT OFF 2X	
16	-12		B	2.5				1X	
17	-11			<2				4X	
18	-24			<2				put OFF	
19	-27			—				25X put OFF, need screen results	
20	176113 -1		A	<2			6	83.3x	
21	-2			<2				2.5x	
22	-3							400X put OFF, need screen results	
23	-4			<2				TB	
24	-5		B	<2				7.14x	
25	176121 -1			<2				1X	
26	-2			<2				33.3X	
27	-3			<2				10X	
28	-4			<2				142X	
29	-5			<2				2.5X	
30	-6			<2				16.7X	
31	-7							1X	
32	-9							1X	
33	-10			<2				40X	
34	-11							1X	
35	-12			<2				50X	
36	-13			<2				40X	
37	-14			<2				33.3X	
38	-15			<2				200X	
39	-16			<2				40X	
40	-18		A				9	Storage Blks	
41	176081 -1								
42	-2								
	-3								
	7/21/98								
	176003 -13		B	<2			9	1X	
	-14		A		1ml	1/10		1X	

PREPFORM.XLS

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	09/11/04 0.20	10/26/04 0.13	10/12/04 0.083	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	09/11/04 0.031	10/26/04 0.043	10/12/04 0.040	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	09/11/04 0.069	10/26/04 0.098	10/12/04 0.089	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	09/11/04 0.087	10/26/04 0.079	10/12/04 0.074	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	09/11/04 0.031	10/26/04 0.057	10/12/04 0.070	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	09/11/04 0.046	10/26/04 0.15	10/12/04 0.14	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	09/11/04 0.15	10/26/04 0.069	10/12/04 0.22	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	09/11/04 0.12	10/26/04 0.12	10/12/04 0.14	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	09/11/04 0.18	10/26/04 0.49	10/12/04 0.34	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	09/11/04 0.27	10/26/04 0.40	10/12/04 0.36	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	09/11/04 0.090	10/26/04 0.13	10/12/04 0.098	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L	09/15/04 1.0	10/26/04 0.63	10/12/04 0.31	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	09/11/04 0.091	10/26/04 0.099	10/12/04 0.088	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	09/11/04 0.11	10/26/04 0.27	10/12/04 0.19	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	09/11/04 0.074	10/26/04 0.18	10/12/04 0.049	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	09/11/04 0.078	10/26/04 0.037	10/12/04 0.042	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	09/11/04 0.089	10/26/04 0.21	10/12/04 0.18	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	09/11/04 0.069	10/26/04 0.061	10/12/04 0.067	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	09/11/04 0.057	10/26/04 0.059	10/12/04 0.12	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	09/11/04 0.39	10/26/04 0.41	10/12/04 0.27	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	09/11/04 0.13	10/26/04 0.17	10/12/04 0.068	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	09/11/04 0.085	10/26/04 0.12	10/12/04 0.10	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	09/11/04 0.11	10/26/04 0.044	10/12/04 0.046	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	09/11/04 0.18	10/26/04 0.082	10/12/04 0.13	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	09/11/04 0.099	10/26/04 0.041	10/12/04 0.050	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	09/11/04 0.089	10/26/04 0.24	10/12/04 0.098	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	09/11/04 0.10	10/26/04 0.086	10/12/04 0.091	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	09/11/04 0.12	10/26/04 0.097	10/12/04 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.079	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	09/11/04 0.086	10/26/04 0.068	10/12/04 0.055	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	09/11/04 0.076	10/26/04 0.078	10/12/04 0.066	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	09/11/04 0.16	10/26/04 0.071	10/12/04 0.18	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	09/11/04 0.055	10/26/04 0.094	10/12/04 0.083	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	09/11/04 0.074	10/26/04 0.079	10/12/04 0.070	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	09/11/04 0.051	10/26/04 0.12	10/12/04 0.12	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	09/11/04 0.16	10/26/04 0.24	10/12/04 0.089	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	09/11/04 0.070	10/26/04 0.075	10/12/04 0.068	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	09/11/04 0.13	10/26/04 0.14	10/12/04 0.13	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	09/11/04 0.059	10/26/04 0.13	10/12/04 0.082	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	09/11/04 0.11	10/26/04 0.090	10/12/04 0.086	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	10/26/04 0.15	10/12/04 0.10	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	09/11/04 0.13	10/26/04 0.12	10/12/04 0.084	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	09/11/04 0.055	10/26/04 0.069	10/12/04 0.069	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	09/11/04 0.093	10/26/04 0.20	10/12/04 0.20	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	09/11/04 0.087	10/26/04 0.081	10/12/04 0.096	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	09/11/04 0.092	10/26/04 0.057	10/12/04 0.062	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	09/11/04 0.080	10/26/04 0.073	10/12/04 0.098	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	09/11/04 0.11	10/26/04 0.078	10/12/04 0.060	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	09/11/04 0.036	10/26/04 0.089	10/12/04 0.076	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	09/11/04 0.15	10/26/04 0.25	10/12/04 0.11	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	09/11/04 0.091	10/26/04 0.092	10/12/04 0.062	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	09/11/04 0.14	10/26/04 0.11	10/12/04 0.11	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	09/11/04 0.088	10/26/04 0.11	10/12/04 0.077	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.099	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	09/11/04 0.12	10/26/04 0.059	10/12/04 0.063	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	09/11/04 0.10	10/26/04 0.036	10/12/04 0.050	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	09/11/04 0.13	10/26/04 0.13	10/12/04 0.096	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	09/11/04 0.061	10/26/04 0.11	10/12/04 0.063	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	09/11/04 0.066	10/26/04 0.069	10/12/04 0.085	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	09/11/04 0.036	10/26/04 0.076	10/12/04 0.068	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	09/11/04 0.12	10/26/04 0.066	10/12/04 0.093	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	09/11/04 0.14	10/26/04 0.15	10/12/04 0.12	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	09/11/04 0.066	10/26/04 0.075	10/12/04 0.078	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	09/11/04 0.37	10/26/04 0.21	10/12/04 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	09/11/04 0.11	10/26/04 0.15	10/12/04 0.21	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	09/11/04 0.21	10/26/04 0.15	10/12/04 0.20	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	09/11/04 0.16	10/26/04 0.047	10/12/04 0.083	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	09/11/04 0.072	10/26/04 0.073	10/12/04 0.11	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	09/11/04 0.71	10/26/04 1.4	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	09/11/04 0.030	10/26/04 0.062	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	09/11/04 0.069	10/26/04 0.046	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	09/11/04 0.090	10/26/04 0.096	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	09/11/04 2.8	10/26/04 7.3	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0
Ethanol	ug/L	09/11/04 33	10/26/04 78	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L	09/11/04 1.6	10/26/04 3.6	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	09/11/04 0.24	10/26/04 1.9	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	09/11/04 0.067	10/26/04 0.066	10/12/04 0.15	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L			10/12/04 1.1	06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

VOLATILE ORGANIC COMPOUNDS

SOIL

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX149[0.5]	Diln Fac:	0.9091
Lab ID:	176210-007	Batch#:	96818
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Basis:	dry	Analyzed:	11/23/04

Moisture: 4%

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX149[0.5]	Diln Fac:	0.9091
Lab ID:	176210-007	Batch#:	96818
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Basis:	dry	Analyzed:	11/23/04

Analyte	Result	RL
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	114 *	59-113
1,2-Dichloroethane-d4	109	70-121
Toluene-d8	106	84-138
Bromofluorobenzene	102	59-113

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC273600	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96818
Units:	ug/Kg	Analyzed:	11/23/04

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC273600	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96818
Units:	ug/Kg	Analyzed:	11/23/04

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	59-113
1,2-Dichloroethane-d4	104	70-121
Toluene-d8	101	84-138
Bromofluorobenzene	100	59-113

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC273597	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96818
Units:	ug/Kg	Analyzed:	11/23/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	40.00	44.28	111	65-135
Benzene	40.00	40.36	101	65-135
Trichloroethene	40.00	40.60	102	65-135
Toluene	40.00	39.90	100	65-135
Chlorobenzene	40.00	37.11	93	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	109	59-113
1,2-Dichloroethane-d4	108	70-121
Toluene-d8	103	84-138
Bromofluorobenzene	98	59-113

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX149[0.5]	Diln Fac:	0.9091
MSS Lab ID:	176210-007	Batch#:	96818
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Basis:	dry	Analyzed:	11/24/04

Type: MS Moisture: 4%
Lab ID: QC273695

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6771	47.35	66.71	141 *	65-135
Benzene	<0.4063	47.35	54.53	115	65-135
Trichloroethene	<1.042	47.35	56.09	118	65-135
Toluene	<0.5521	47.35	56.36	119	65-135
Chlorobenzene	<0.3750	47.35	49.65	105	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	132 *	59-113
1,2-Dichloroethane-d4	111	70-121
Toluene-d8	104	84-138
Bromofluorobenzene	101	59-113

Type: MSD Moisture: 4%
Lab ID: QC273696

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	47.35	66.38	140 *	65-135	0	35
Benzene	47.35	50.12	106	65-135	8	35
Trichloroethene	47.35	48.99	103	65-135	14	35
Toluene	47.35	50.58	107	65-135	11	35
Chlorobenzene	47.35	41.36	87	65-135	18	35

Surrogate	%REC	Limits
Dibromofluoromethane	132 *	59-113
1,2-Dichloroethane-d4	109	70-121
Toluene-d8	106	84-138
Bromofluorobenzene	100	59-113

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

w/SVOA03 8260 S. ICAL TUNE

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH14.D

Date : 17-NOV-2004 17:47

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

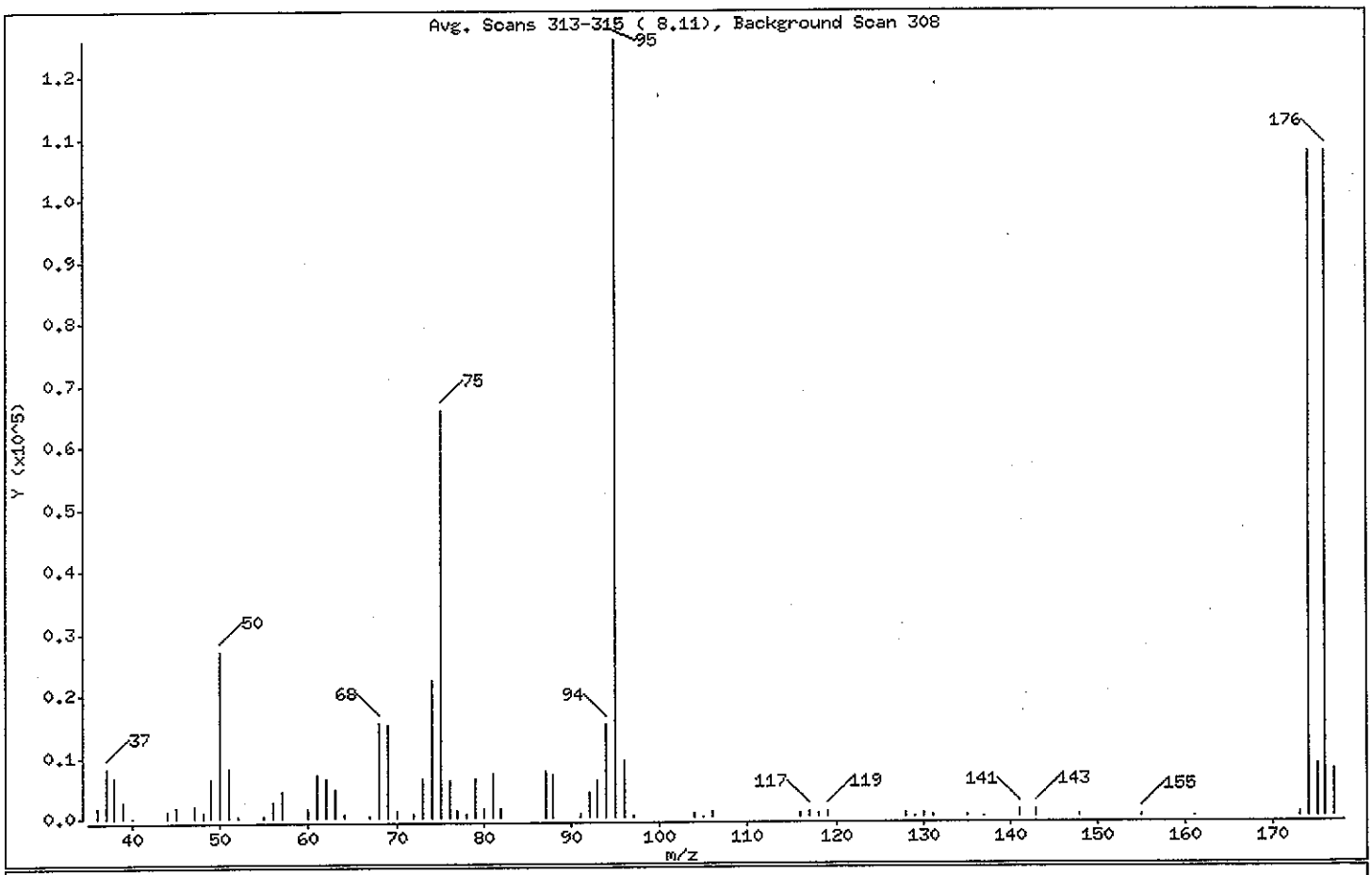
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.34
75	30.00 - 60.00% of mass 95	52.33
96	5.00 - 9.00% of mass 95	7.44
173	Less than 2.00% of mass 174	0.40 (0.47)
174	50.00 - 99.99% of mass 95	85.44
175	5.00 - 9.00% of mass 174	6.68 (7.82)
176	95.01 - 100.99% of mass 174	85.56 (100.14)
177	5.00 - 9.00% of mass 176	5.88 (6.87)

11/24/04

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\112304.b\CKN02.D

Date : 23-NOV-2004 10:38

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

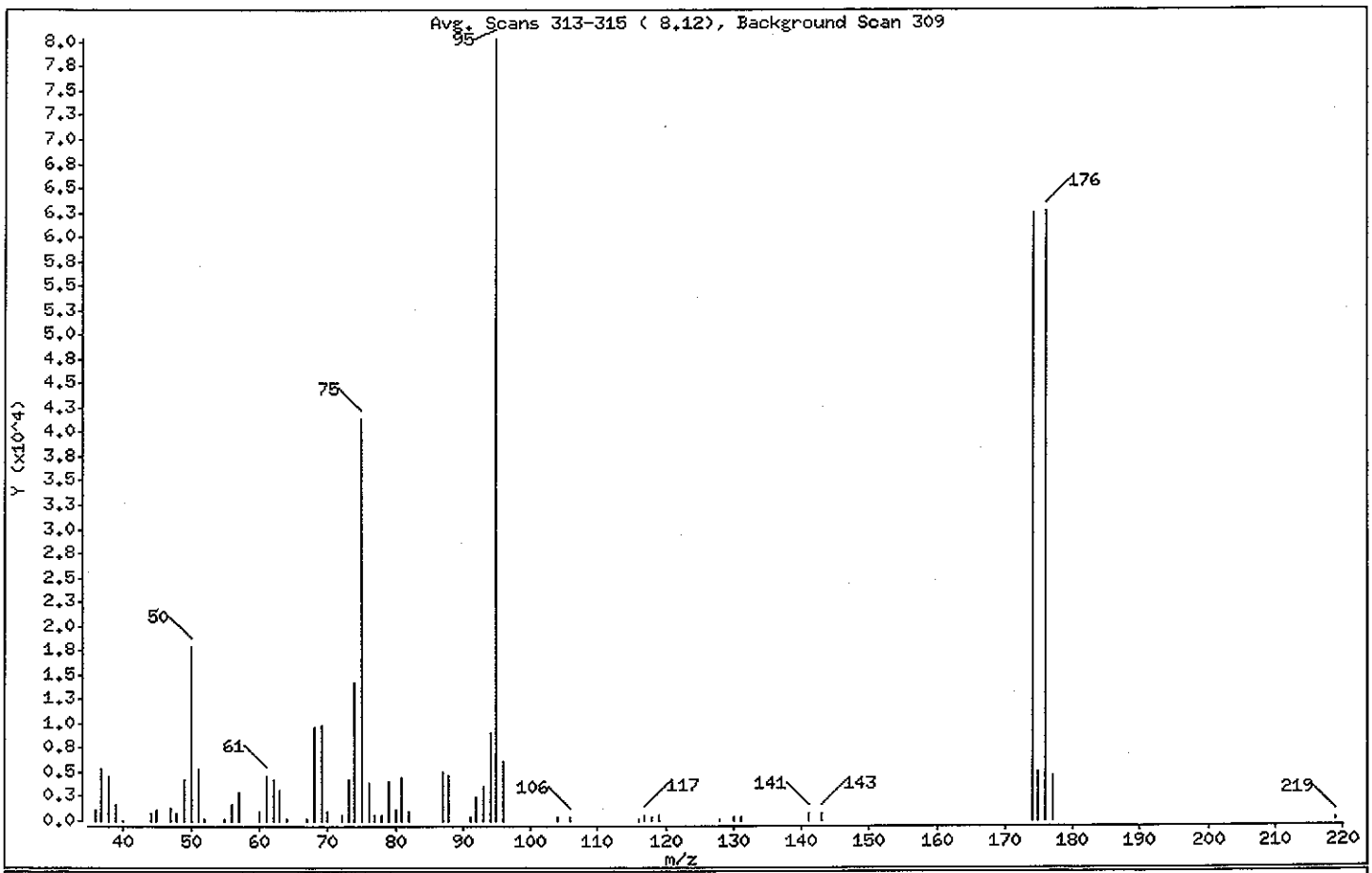
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.27
75	30.00 - 60.00% of mass 95	51.50
96	5.00 - 9.00% of mass 95	7.48
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	77.70
175	5.00 - 9.00% of mass 174	6.25 (8.05)
176	95.01 - 100.99% of mass 174	77.91 (100.26)
177	5.00 - 9.00% of mass 176	5.79 (7.43)

Data File: \\GCMSSERVER\DD\chem\MSVOA03.i\112304.b\CKN11.D

Date : 23-NOV-2004 15:37

Client ID: bfb tune std

Instrument: MSVOA03.i

Sample Info: BFB,04WS1238

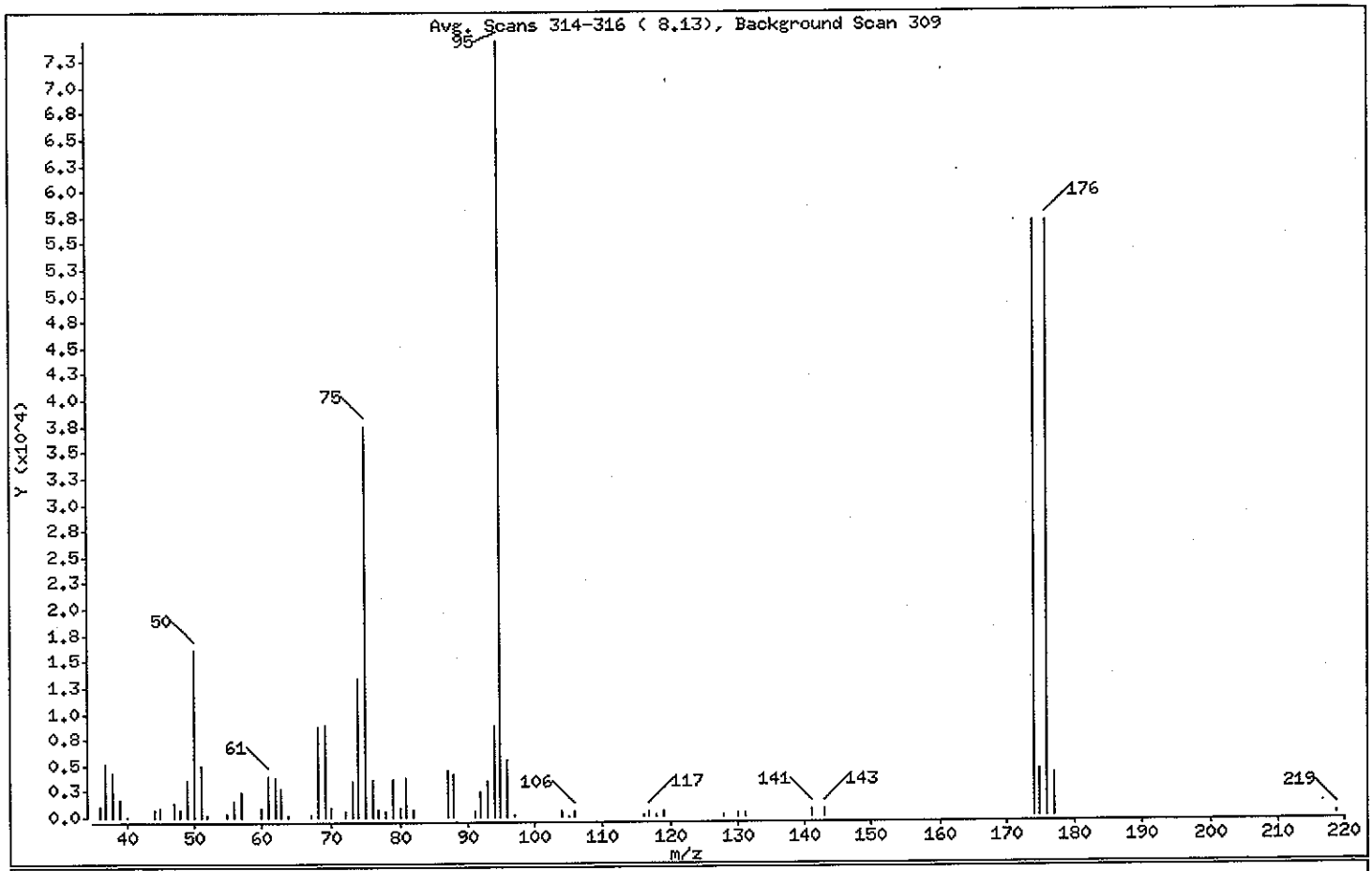
Volume Injected (uL): 1.0

Operator: tw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.71
75	30.00 - 60.00% of mass 95	50.33
96	5.00 - 9.00% of mass 95	7.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	76.48
175	5.00 - 9.00% of mass 174	6.01 (7.86)
176	95.01 - 100.99% of mass 174	76.60 (100.15)
177	5.00 - 9.00% of mass 176	5.45 (7.11)

a 11/24

b 11/23/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424464278001 Name: I3M826 Type: SOIL Date: 17-NOV-2004 19:46 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	ckh18	424464278018	5PPB	17-NOV-2004 19:46	04SS393 (100000X), 04WS2167A (50000X), 04WS2096 (5000X)
2	ckh19	424464278019	10PPB	17-NOV-2004 20:21	04SS393 (50000X), 04WS2167A (25000X), 04WS2096 (5000X)
3	ckh20	424464278020	20PPB	17-NOV-2004 20:55	04SS393 (25000X), 04WS2167A (12500X), 04WS2096 (5000X)
4	ckh21	424464278021	50PPB	17-NOV-2004 21:28	04SS393 (10000X), 04WS2167A (5000X), 04WS2096 (5000X)
5	ckh22	424464278022	60PPB	17-NOV-2004 22:02	04SS393 (8333X), 04WS2167A (4167X), 04WS2096 (5000X)
6	ckh23	424464278023	75PPB	17-NOV-2004 22:35	04SS393 (6667X), 04WS2167A (3333X), 04WS2096 (5000X)
7	ckh24	424464278024	100PPB	17-NOV-2004 23:09	04SS393 (5000X), 04WS2167A (2500X), 04WS2096 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.4069	0.5039	0.5132	0.6266	0.6044	0.6163	0.6063	AVRG	R		1.805239		ug/L	0.5539	15	0.0500	0.99	15	
Chloromethane	0.4878	0.5365	0.4709	0.5078	0.5097	0.5230	0.5271	AVRG	R		1.964760		ug/L	0.5090	5	0.1000	0.99	15	
Vinyl Chloride	0.3652	0.4236	0.3743	0.3975	0.3712	0.3687	0.3360	AVRG	R		2.654873		ug/L	0.3767	7	0.0500	0.99	15	
Bromomethane	0.3218	0.3573	0.3382	0.3804	0.3709	0.3894	0.3951	AVRG	R		2.741874		ug/L	0.3647	7	0.0500	0.99	15	
Chloroethane	0.2398	0.2716	0.2478	0.2644	0.2598	0.2677	0.2683	AVRG	R		3.847495		ug/L	0.2599	5	0.0500	0.99	15	
Trichlorofluoromethane	0.6847	0.8268	0.7863	0.9187	0.8753	0.9053	0.8854	AVRG	R		1.189983		ug/L	0.8403	10	0.0500	0.99	15	
Acetone		0.2135	0.1908	0.1803	0.1840	0.1933	0.1897	AVRG	R		5.210376		ug/L	0.1919	6	0.0500	0.99	15	
Freon 113	0.4151	0.4914	0.4540	0.4818	0.4777	0.4878	0.4717	AVRG	R		2.134485		ug/L	0.4685	6	0.0500	0.99	15	
1,1-Dichloroethene	0.3641	0.4345	0.4200	0.4362	0.4317	0.4417	0.4331	AVRG	R		2.363906		ug/L	0.4230	6	0.0500	0.99	15	
Methylene Chloride	0.5583	0.6162	0.5507	0.5519	0.5379	0.5574	0.5488	AVRG	R		1.785164		ug/L	0.5602	5	0.0500	0.99	15	
Carbon Disulfide	2.0547	1.6577	1.4070	1.4508	1.4537	1.4878	1.4776	AVRG	R		0.636989		ug/L	1.5699	15	0.0500	0.99	15	
MTBE	1.2099	1.4455	1.3112	1.3137	1.3444	1.4058	1.3715	AVRG	R		0.744514		ug/L	1.3432	6	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4557	0.5353	0.4808	0.4993	0.5016	0.5130	0.5008	AVRG	R		2.007752		ug/L	0.4981	5	0.0500	0.99	15	
Vinyl Acetate	0.7448	1.0306	0.9282	0.9420	0.9606	0.9957	0.9815	AVRG	R		1.063282		ug/L	0.9405	10	0.0500	0.99	15	
1,1-Dichloroethane	0.8438	0.9880	0.8907	0.8924	0.9061	0.9369	0.8965	AVRG	R		1.101587		ug/L	0.9078	5	0.1000	0.99	15	
2-Butanone	0.2684	0.3036	0.3016	0.3006	0.3065	0.3072	0.3031	AVRG	R		3.347677		ug/L	0.2987	5	0.0500	0.99	15	
2,2-Dichloropropane	0.5961	0.7080	0.6629	0.6823	0.7089	0.7247	0.7078	AVRG	R		1.461160		ug/L	0.6844	6	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.5208	0.6184	0.5594	0.5572	0.5538	0.5770	0.5524	AVRG	R		1.777068		ug/L	0.5627	5	0.0500	0.99	15	
Chloroform	0.9738	1.1407	1.0209	1.0369	1.0337	1.0508	1.0162	AVRG	R		0.962465		ug/L	1.0390	5	0.0500	0.99	15	

FCAL-GOOD, ICV-GOOD, ~~US~~ A.C.E. limits - CS_2 ↓, MTBE ↑

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

11/18/04

11/18/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424464278001 Name: I3M826 Type: SOIL Date: 17-NOV-2004 19:46 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Bromochloromethane	0.2987	0.3389	0.3265	0.3193	0.3229	0.3339	0.3229	AVRG	R		3.093043		ug/L	0.3233	4	0.0500	0.99	15	
1,1,1-Trichloroethane	0.6581	0.7981	0.7300	0.7453	0.7670	0.7841	0.7587	AVRG	R		1.335525		ug/L	0.7488	6	0.0500	0.99	15	
1,1-Dichloropropene	0.3980	0.4500	0.4444	0.4481	0.4633	0.4594	0.4380	AVRG	R		2.257220		ug/L	0.4430	5	0.0500	0.99	15	
Carbon Tetrachloride	0.4084	0.4453	0.4352	0.4387	0.4579	0.4538	0.4492	AVRG	R		2.266436		ug/L	0.4412	4	0.0500	0.99	15	
1,2-Dichloroethane	0.5525	0.5811	0.5483	0.5323	0.5369	0.5457	0.5295	AVRG	R		1.829412		ug/L	0.5466	3	0.0500	0.99	15	
Benzene	1.1233	1.2317	1.1786	1.1321	1.1520	1.1561	1.1466	AVRG	R		0.862029		ug/L	1.1601	3	0.0500	0.99	15	
Trichloroethene	0.3363	0.3816	0.3626	0.3605	0.3609	0.3630	0.3542	AVRG	R		2.778883		ug/L	0.3599	4	0.0500	0.99	15	
1,2-Dichloropropane	0.3055	0.3510	0.3369	0.3259	0.3292	0.3351	0.3322	AVRG	R		3.022665		ug/L	0.3308	4	0.0500	0.99	15	
Bromodichloromethane	0.4864	0.5518	0.5381	0.5368	0.5353	0.5472	0.5387	AVRG	R		1.874507		ug/L	0.5335	4	0.0500	0.99	15	
Dibromomethane	0.3368	0.3700	0.3582	0.3492	0.3524	0.3532	0.3527	AVRG	R		2.831166		ug/L	0.3532	3	0.0500	0.99	15	
4-Methyl-2-Pentanone	0.3378	0.3822	0.4053	0.4097	0.4124	0.4181	0.4292	AVRG	R		2.504724		ug/L	0.3992	8	0.0500	0.99	15	
Tetramethyl THF	0.6359	0.7231	0.7210	0.7268	0.7164	0.7396	0.7401	AVRG	R		1.399205		ug/L	0.7147	5	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4908	0.5545	0.5624	0.5636	0.5658	0.5702	0.5759	AVRG	R		1.802613		ug/L	0.5548	5	0.0500	0.99	15	
Toluene	0.6164	0.6995	0.6831	0.6749	0.6625	0.6716	0.6750	AVRG	R		1.494744		ug/L	0.6690	4	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.4269	0.5078	0.5266	0.5302	0.5304	0.5354	0.5416	AVRG	R		1.945048		ug/L	0.5141	8	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2786	0.3129	0.3097	0.3021	0.2987	0.2994	0.3054	AVRG	R		3.322511		ug/L	0.3010	4	0.0500	0.99	15	
2-Hexanone	0.3640	0.3883	0.3803	0.3886	0.3936	0.3970	0.3935	AVRG	R		2.587547		ug/L	0.3865	3	0.0500	0.99	15	
1,3-Dichloropropane	0.6799	0.7415	0.7242	0.6984	0.7064	0.7166	0.6931	AVRG	R		1.411250		ug/L	0.7086	3	0.0500	0.99	15	
Tetrachloroethene	0.4152	0.4498	0.4400	0.4414	0.4376	0.4242	0.4187	AVRG	R		2.312589		ug/L	0.4324	3	0.0500	0.99	15	
Dibromochloromethane	0.5151	0.5582	0.5592	0.5551	0.5592	0.5563	0.5613	AVRG	R		1.811420		ug/L	0.5521	3	0.0500	0.99	15	
1,2-Dibromoethane	0.3459	0.3897	0.3948	0.3979	0.3852	0.3917	0.4067	AVRG	R		2.581155		ug/L	0.3874	5	0.0500	0.99	15	
Chlorobenzene	1.0243	1.1121	1.0418	1.0243	1.0055	1.0036	0.9833	AVRG	R		0.972925		ug/L	1.0278	4	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.4061	0.4235	0.4266	0.4176	0.4138	0.4169	0.4104	AVRG	R		2.401446		ug/L	0.4164	2	0.0500	0.99	15	
Ethylbenzene	1.5186	1.6964	1.6218	1.5828	1.5897	1.5454	1.4944	AVRG	R		0.633529		ug/L	1.5785	4	0.0500	0.99	15	
m,p-Xylenes	0.5568	0.6089	0.5730	0.5672	0.5603	0.5459	0.5203	AVRG	R		1.780054		ug/L	0.5618	5	0.0500	0.99	15	
o-Xylene	0.5642	0.6304	0.5880	0.5580	0.5611	0.5579	0.5433	AVRG	R		1.748741		ug/L	0.5718	5	0.0500	0.99	15	
Styrene	0.9306	1.0545	0.9995	0.9978	0.9855	0.9631	0.9362	AVRG	R		1.019336		ug/L	0.9810	4	0.0500	0.99	15	
Bromoform	0.3348	0.3815	0.4012	0.4221	0.4099	0.4133	0.4185	AVRG	R		2.516770		ug/L	0.3973	8	0.1000	0.99	15	
Isopropylbenzene	2.4793	2.8196	2.8301	2.7860	2.8030	2.7537	2.5817	AVRG	R		0.367387		ug/L	2.7219	5	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	1.0573	1.1565	1.1719	1.1403	1.1587	1.1481	1.1067	AVRG	R		0.881664		ug/L	1.1342	3	0.3000	0.99	15	
1,2,3-Trichloropropane	0.2679	0.2989	0.2969	0.2864	0.2896	0.2798	0.2748	AVRG	R		3.509773		ug/L	0.2849	4	0.0500	0.99	15	
Propylbenzene	3.1813	3.5544	3.4750	3.4474	3.4420	3.3225	3.1497	AVRG	R		0.296960		ug/L	3.3675	5	0.0500	0.99	15	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA03 HP GCMS VOA 03 Reviewed By:
Calnum: 424464278001 Name: I3M826 Type: SOIL Date: 17-NOV-2004 19:46 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Bromobenzene	0.8646	0.9517	0.9210	0.8764	0.8790	0.8486	0.8063	AVRG	R		1.138641		ug/L	0.8782	5	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.2083	2.3658	2.3419	2.3309	2.2862	2.2811	2.0926	AVRG	R		0.440060		ug/L	2.2724	4	0.0500	0.99	15	
2-Chlorotoluene	2.4081	2.6079	2.5176	2.4867	2.4308	2.3800	2.1988	AVRG	R		0.411045		ug/L	2.4328	5	0.0500	0.99	15	
4-Chlorotoluene	2.1994	2.4347	2.3766	2.3200	2.3605	2.2832	2.1002	AVRG	R		0.435468		ug/L	2.2964	5	0.0500	0.99	15	
tert-Butylbenzene	1.9808	2.2278	2.1512	2.1316	2.1623	2.1363	2.0353	AVRG	R		0.472169		ug/L	2.1179	4	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.2225	2.4324	2.3855	2.3028	2.3672	2.3324	2.1827	AVRG	R		0.431419		ug/L	2.3179	4	0.0500	0.99	15	
sec-Butylbenzene	2.7077	2.9373	2.9633	2.9129	3.0178	2.9980	2.8300	AVRG	R		0.343695		ug/L	2.9096	4	0.0500	0.99	15	
para-Isopropyl Toluene	2.1559	2.3863	2.3425	2.2944	2.3324	2.3125	2.1729	AVRG	R		0.437587		ug/L	2.2853	4	0.0500	0.99	15	
1,3-Dichlorobenzene	1.5482	1.6829	1.5843	1.5297	1.5525	1.5251	1.4333	AVRG	R		0.644804		ug/L	1.5509	5	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5705	1.7594	1.6413	1.5638	1.5733	1.5286	1.4462	AVRG	R		0.631589		ug/L	1.5833	6	0.0500	0.99	15	
n-Butylbenzene	2.1966	2.4282	2.3986	2.3157	2.3879	2.3435	2.1927	AVRG	R		0.430418		ug/L	2.3233	4	0.0500	0.99	15	
1,2-Dichlorobenzene	1.5013	1.6453	1.5555	1.4705	1.4979	1.5001	1.4195	AVRG	R		0.660989		ug/L	1.5129	5	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1800	0.2128	0.2113	0.2248	0.2222	0.2286	0.2254	AVRG	R		4.651069		ug/L	0.2150	8	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8711	0.9834	0.9756	0.8816	0.9244	0.8868	0.8335	AVRG	R		1.101251		ug/L	0.9081	6	0.0500	0.99	15	
Hexachlorobutadiene	0.5049	0.5196	0.5150	0.4834	0.5028	0.5169	0.4638	AVRG	R		1.996317		ug/L	0.5009	4	0.0500	0.99	15	
Naphthalene	1.7735	1.9945	2.0297	1.9834	2.1147	2.0848	1.9833	AVRG	R		0.501289		ug/L	1.9949	6	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8941	0.9595	0.9515	0.8655	0.9170	0.8985	0.8439	AVRG	R		1.105848		ug/L	0.9043	5	0.0500	0.99	15	
Dibromofluoromethane	0.6347	0.6823	0.6406	0.6432	0.6629	0.6641	0.6634	AVRG	R		1.524649		ug/L	0.6559	3	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4418	0.4578	0.4470	0.4442	0.4468	0.4493	0.4531	AVRG	R		2.229260		ug/L	0.4486	1	0.0500	0.99	15	
Trifluorotoluene	0.4126	0.4537	0.4644	0.4656	0.4617	0.4730	0.4629	AVRG	R		2.191755		ug/L	0.4563	4	0.0500	0.99	15	
Toluene-d8	0.9381	0.9561	0.9759	0.9694	0.9777	0.9721	1.0187	AVRG	R		1.028191		ug/L	0.9726	3	0.0500	0.99	15	
Bromofluorobenzene	1.0408	1.0476	1.0429	1.0610	1.0692	1.0550	1.0403	AVRG	R		0.951503		ug/L	1.0510	1	0.0500	0.99	15	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH26.D
Report Date: 18-Nov-2004 10:31

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH26.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 18-NOV-2004 00:16 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICV,04WS1939,5000X,04WS1940,5000X
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 23:09 Cal File: CKH24.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

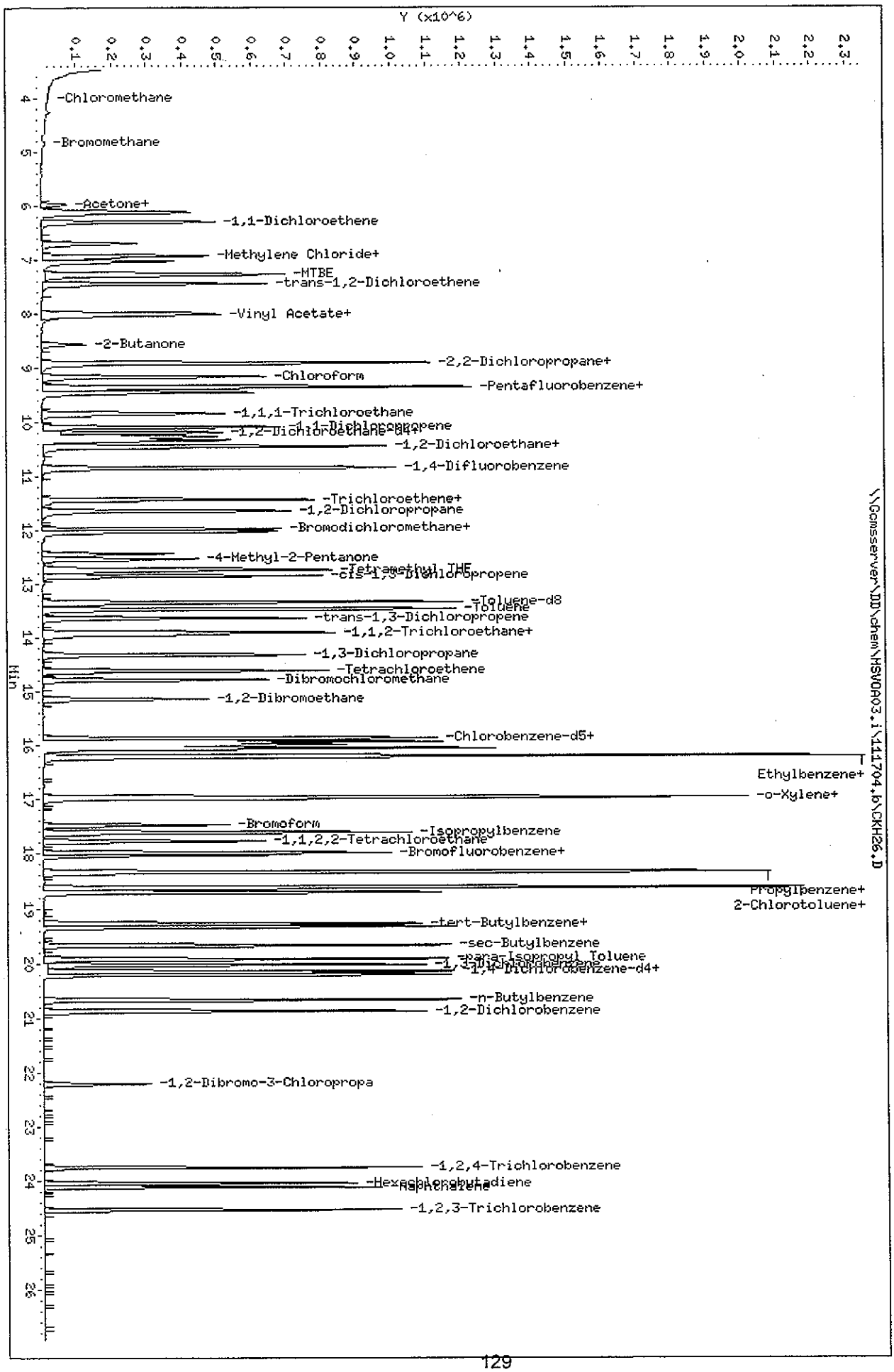
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
2 Chloromethane	50	3.988	4.008	(0.426)	8005	1.02909	1.0290
4 Bromomethane	94	4.826	4.817	(0.516)	19408	3.48187	3.4818
7 Acetone	43	5.969	5.970	(0.638)	155242	52.9252	52.9252
8 Freon 113	101	6.117	6.118	(0.654)	381216	53.2413	53.2413
9 1,1-Dichloroethene	96	6.295	6.305	(0.673)	297666	46.0409	46.0409
10 Methylene Chloride	84	6.926	6.927	(0.741)	410448	47.9425	47.9425
11 Carbon Disulfide	76	7.034	7.035	(0.752)	870582	36.2849	36.2848
12 MTBE	73	7.271	7.272	(0.778)	1242392	60.5224	60.5224
13 trans-1,2-Dichloroethene	96	7.448	7.449	(0.797)	362448	47.6146	47.6146
14 Vinyl Acetate	43	7.981	7.982	(0.853)	770307	53.5916	53.5916
15 1,1-Dichloroethane	63	8.020	8.021	(0.858)	665407	47.9613	47.9612
16 2-Butanone	43	8.562	8.563	(0.916)	247363	54.1830	54.1829
17 2,2-Dichloropropane	77	8.917	8.918	(0.954)	495263	47.3498	47.3498
18 cis-1,2-Dichloroethene	96	8.917	8.918	(0.954)	422458	49.1216	49.1215
19 Chloroform	83	9.164	9.165	(0.980)	754842	47.5363	47.5363
* 20 Pentafluorobenzene	168	9.351	9.352	(1.000)	764162	50.0000	
21 Bromochloromethane	128	9.371	9.372	(1.002)	241767	48.9291	48.9291
$ 22 Dibromofluoromethane	113	9.459	9.460	(1.012)	512153	51.0922	51.0921
23 1,1,1-Trichloroethane	97	9.844	9.845	(1.053)	560932	49.0170	49.0170
24 1,1-Dichloropropene	75	10.090	10.091	(0.930)	481545	45.9319	45.9319
$ 25 1,2-Dichloroethane-d4	65	10.189	10.190	(0.939)	533045	50.2144	50.2144
26 Carbon Tetrachloride	117	10.268	10.269	(0.946)	490953	47.0205	47.0204

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH26.D
Report Date: 18-Nov-2004 10:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	27 1,2-Dichloroethane	62	10.327	10.328	(0.952)	602334	46.5643	46.5642
	28 Benzene	78	10.455	10.456	(0.964)	1295232	47.1817	47.1816
*	29 1,4-Difluorobenzene	114	10.850	10.851	(1.000)	1183222	50.0000	
	30 Trichloroethene	95	11.431	11.432	(1.054)	400619	47.0441	47.0441
$	31 Trifluorotoluene	146	11.500	11.511	(1.060)	11840	1.09660	1.0965
	32 1,2-Dichloropropane	63	11.638	11.639	(1.073)	371005	47.3886	47.3885
	33 Bromodichloromethane	83	11.974	11.975	(1.104)	623532	49.3912	49.3912
	34 Dibromomethane	93	12.023	12.024	(1.108)	398562	47.6832	47.6831
	35 4-Methyl-2-Pentanone	43	12.526	12.527	(1.154)	522525	55.3058	55.3058
	36 Tetramethyl THF	43	12.733	12.734	(1.174)	857053	50.6749	50.6748
	37 cis-1,3-Dichloropropene	75	12.841	12.842	(1.184)	630460	48.0246	48.0246
$	38 Toluene-d8	98	13.334	13.335	(1.229)	1182496	51.3780	51.3779
	39 Toluene	92	13.462	13.463	(1.241)	780229	49.2825	49.2825
	40 trans-1,3-Dichloropropene	75	13.630	13.631	(1.256)	565622	46.4901	46.4900
	41 1,1,2-Trichloroethane	83	13.906	13.907	(1.282)	351557	49.3590	49.3589
	42 2-Hexanone	43	13.945	13.946	(0.879)	392707	54.2646	54.2645
	43 1,3-Dichloropropane	76	14.320	14.321	(0.903)	631235	47.5724	47.5723
	44 Tetrachloroethene	166	14.616	14.617	(0.922)	376435	46.4888	46.4887
	45 Dibromochloromethane	129	14.783	14.784	(0.932)	490238	47.4226	47.4226
	46 1,2-Dibromoethane	107	15.138	15.139	(1.395)	453189	49.4307	49.4307
*	47 Chlorobenzene-d5	117	15.858	15.869	(1.000)	936290	50.0000	
	48 Chlorobenzene	112	15.927	15.928	(1.004)	896464	46.5770	46.5770
	49 1,1,1,2-Tetrachloroethane	131	15.986	15.987	(1.008)	367685	47.1529	47.1528
	50 Ethylbenzene	91	16.055	16.056	(1.012)	1416254	47.9145	47.9145
	51 m,p-Xylenes	106	16.203	16.204	(1.022)	998710	94.9363	94.9362
	52 o-Xylene	106	16.952	16.963	(1.069)	501233	46.8085	46.8084
	53 Styrene	104	16.972	16.983	(1.070)	909304	49.4978	49.4978
	54 Bromoform	173	17.475	17.476	(1.102)	369940	49.7204	49.7203
	55 Isopropylbenzene	105	17.613	17.614	(0.874)	1137954	44.1584	44.1583
	56 1,1,2,2-Tetrachloroethane	83	17.771	17.772	(0.882)	539205	50.2137	50.2136
$	57 Bromofluorobenzene	95	17.978	17.979	(0.892)	497046	49.9542	49.9541
	58 1,2,3-Trichloropropane	110	18.027	18.028	(0.894)	134417	49.8308	49.8308
	59 Propylbenzene	91	18.333	18.344	(0.910)	1538972	48.2717	48.2717
	60 Bromobenzene	156	18.333	18.344	(0.910)	397219	47.7729	47.7729
	61 2-Chlorotoluene	91	18.619	18.620	(0.924)	1102782	47.8789	47.8788
	62 1,3,5-Trimethylbenzene	105	18.629	18.630	(0.924)	1060698	49.3025	49.3024
	63 4-Chlorotoluene	91	18.707	18.708	(0.928)	1014123	46.6456	46.6456
	64 tert-Butylbenzene	119	19.279	19.280	(0.956)	952672	47.5122	47.5122
	65 1,2,4-Trimethylbenzene	105	19.338	19.339	(0.959)	1072455	48.8701	48.8700
	66 sec-Butylbenzene	105	19.674	19.675	(0.976)	1351907	49.0777	49.0777
	67 para-Isopropyl Toluene	119	19.920	19.921	(0.988)	1035009	47.8380	47.8379
	68 1,3-Dichlorobenzene	146	20.029	20.039	(0.994)	679712	46.2932	46.2932
*	69 1,4-Dichlorobenzene-d4	152	20.157	20.158	(1.000)	473375	50.0000	
	70 1,4-Dichlorobenzene	146	20.216	20.217	(1.003)	697187	46.5102	46.5102
	71 n-Butylbenzene	91	20.669	20.680	(1.025)	1080599	49.1269	49.1269
	72 1,2-Dichlorobenzene	146	20.876	20.878	(1.036)	680287	47.4954	47.4953
	73 1,2-Dibromo-3-Chloropropane	75	22.217	22.218	(1.102)	107224	52.6756	52.6755
	74 1,2,4-Trichlorobenzene	180	23.765	23.766	(1.179)	415726	48.3569	48.3568
	75 Hexachlorobutadiene	225	24.051	24.052	(1.193)	224885	47.4192	47.4192
	76 Naphthalene	128	24.120	24.121	(1.197)	956818	50.6620	50.6620
	77 1,2,3-Trichlorobenzene	180	24.544	24.545	(1.218)	421197	49.1978	49.1977

Data File: \\Comsserver\DD\chem\HSVOA03.i\111704.b\CKH26.D
Date : 18-NOV-2004 00:16
Client ID: DYNA P&T
Sample Info: ICV,04WS1939,5000X,04WS1940,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH25.D
Report Date: 18-Nov-2004 10:30

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH25.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 23:42 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICV,04WS2093,5000X
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 23:09 Cal File: CKH24.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

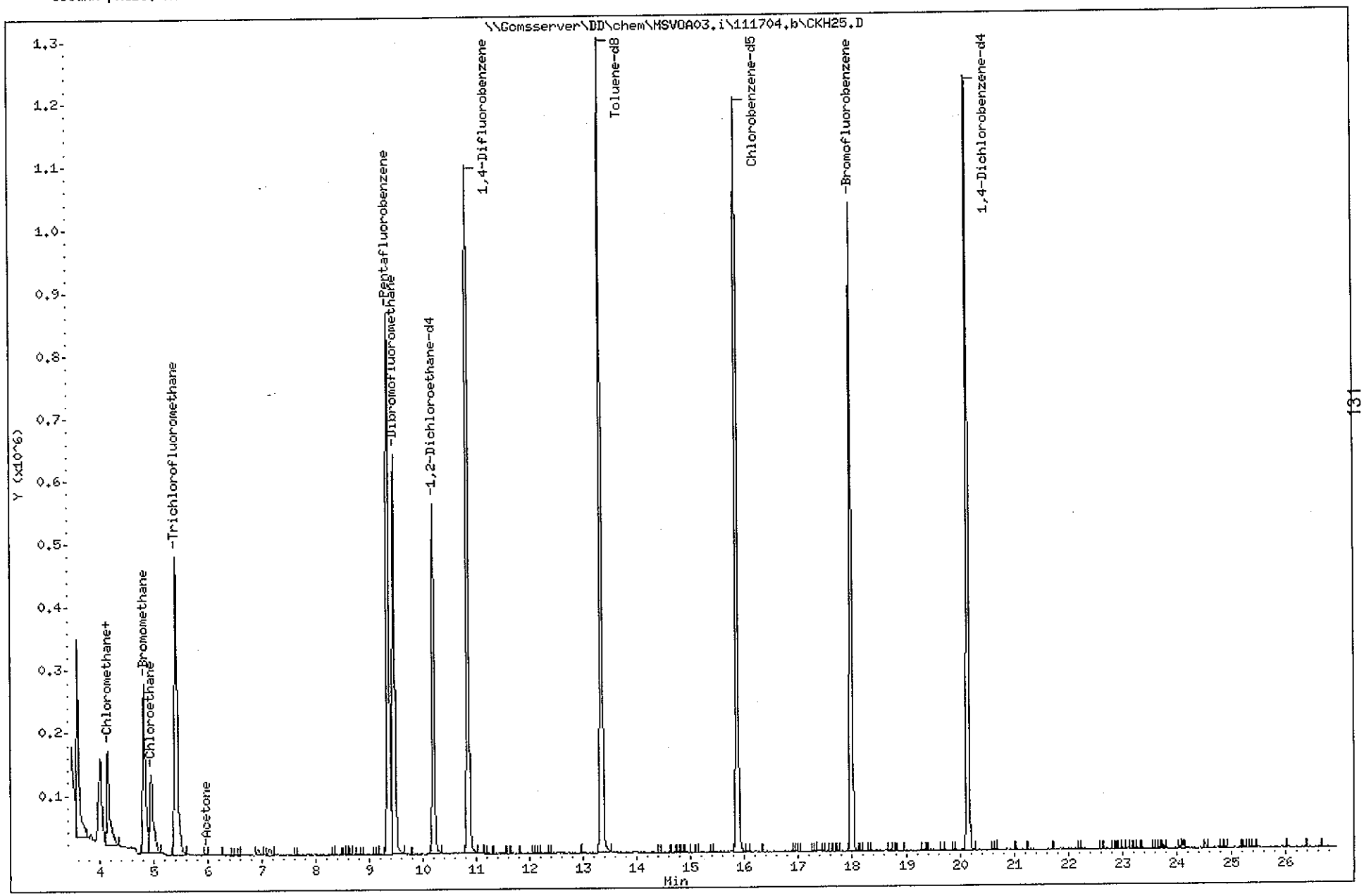
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.573	3.574	(0.382)	409639	42.8072	42.8072
2 Chloromethane	50	4.007	4.008	(0.429)	383686	43.6381	43.6381
3 Vinyl Chloride	62	4.145	4.136	(0.443)	310664	47.7436	47.7436
4 Bromomethane	94	4.816	4.817	(0.515)	321703	51.0603	51.0603
5 Chloroethane	64	4.944	4.945	(0.529)	219867	48.9687	48.9687
6 Trichlorofluoromethane	101	5.407	5.408	(0.578)	768936	52.9678	52.9677
7 Acetone	43	5.969	5.970	(0.638)	6694	2.01900	2.0189
* 20 Pentafluorobenzene	168	9.351	9.352	(1.000)	863752	50.0000	
$ 22 Dibromofluoromethane	113	9.459	9.460	(1.012)	549846	48.5279	48.5279
$ 25 1,2-Dichloroethane-d4	65	10.189	10.190	(0.939)	580523	50.1157	50.1157
* 29 1,4-Difluorobenzene	114	10.850	10.851	(1.000)	1291148	50.0000	
$ 38 Toluene-d8	98	13.334	13.335	(1.229)	1295152	51.5690	51.5689
* 47 Chlorobenzene-d5	117	15.868	15.869	(1.000)	1013907	50.0000	
$ 57 Bromofluorobenzene	95	17.978	17.979	(0.892)	535315	50.9236	50.9235
* 69 1,4-Dichlorobenzene-d4	152	20.157	20.158	(1.000)	500116	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH25.D
Date : 17-NOV-2004 23:42
Client ID: DYNA P&T
Sample Info: ICV,04WS2093,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i

Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH18.D
Report Date: 18-Nov-2004 11:26

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH18.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 19:46 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS393,0.001/100,04WS2167A,0.002/100
Misc Info : 5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 19:46 Cal File: CKH18.D
Als bottle: 18 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

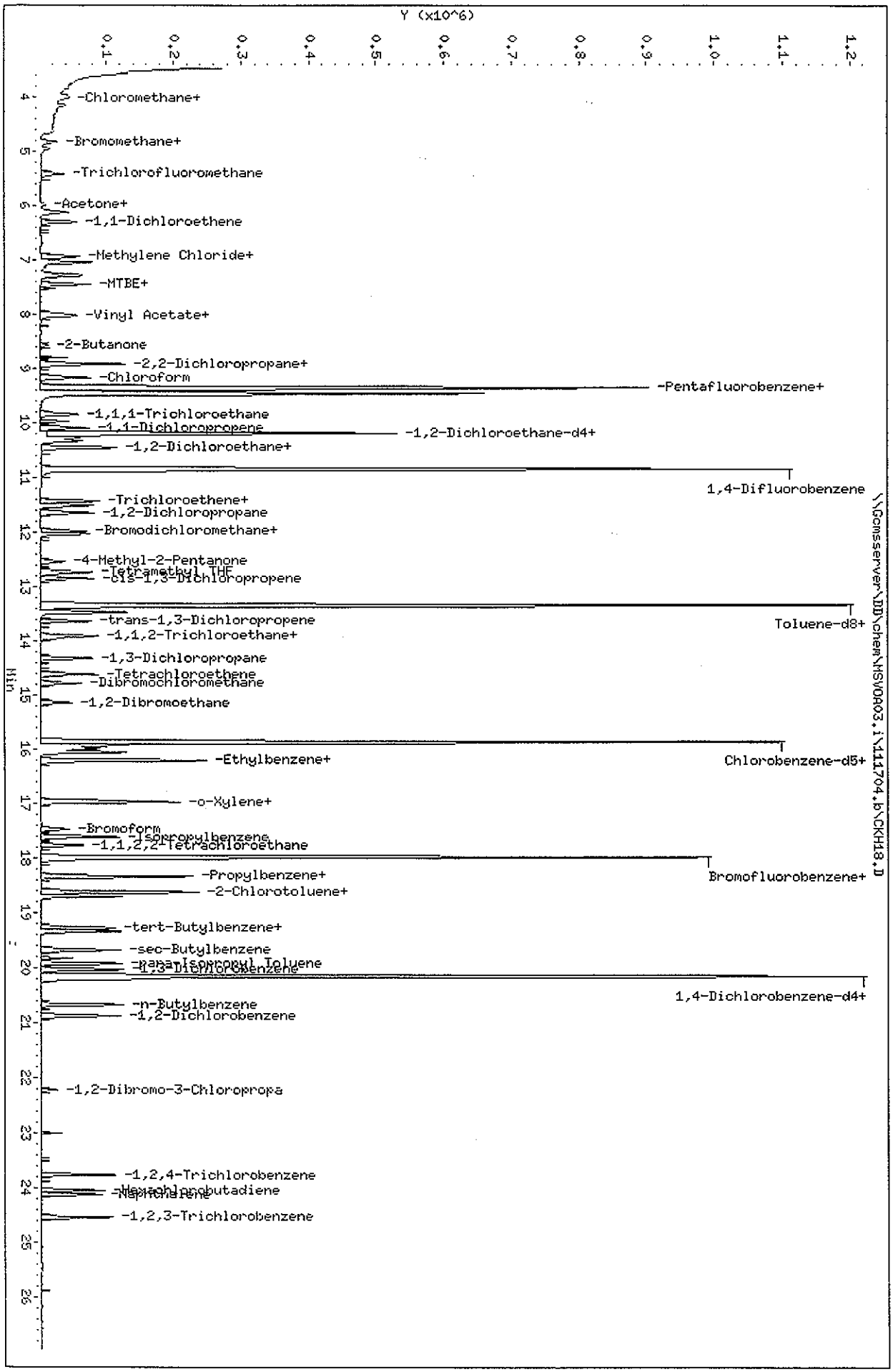
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.583	3.574	(0.383)	36150	5.00000	5.0000
2 Chloromethane	50	4.017	4.008	(0.430)	43335	5.00000	5.0000
3 Vinyl Chloride	62	4.145	4.136	(0.443)	32445	5.00000	5.0000
4 Bromomethane	94	4.816	4.817	(0.515)	28583	5.00000	5.0000
5 Chloroethane	64	4.954	4.945	(0.530)	21300	5.00000	5.0000
6 Trichlorofluoromethane	101	5.407	5.408	(0.578)	60823	5.00000	5.0000
8 Freon 113	101	6.127	6.118	(0.655)	36875	5.00000	5.0000
9 1,1-Dichloroethene	96	6.304	6.305	(0.674)	32342	5.00000	5.0000
10 Methylene Chloride	84	6.935	6.927	(0.742)	49599	5.00000	5.0000
11 Carbon Disulfide	76	7.034	7.035	(0.752)	182531	5.00000	5.0000
12 MTBE	73	7.280	7.272	(0.779)	107485	5.00000	5.0000
13 trans-1,2-Dichloroethene	96	7.448	7.449	(0.796)	40481	5.00000	5.0000
14 Vinyl Acetate	43	7.990	7.982	(0.855)	66165	5.00000	5.0000
15 1,1-Dichloroethane	63	8.020	8.021	(0.858)	74961	5.00000	5.0000
16 2-Butanone	43	8.572	8.563	(0.917)	23844	5.00000	5.0000
17 2,2-Dichloropropane	77	8.917	8.918	(0.954)	52957	5.00000	5.0000
18 cis-1,2-Dichloroethene	96	8.917	8.918	(0.954)	46268	5.00000	5.0000
19 Chloroform	83	9.163	9.165	(0.980)	86511	5.00000	5.0000
* 20 Pentafluorobenzene	168	9.351	9.352	(1.000)	888353	50.0000	
21 Bromochloromethane	128	9.371	9.372	(1.002)	26539	5.00000	5.0000
$ 22 Dibromofluoromethane	113	9.459	9.460	(1.012)	563801	50.0000	50.0000
23 1,1,1-Trichloroethane	97	9.844	9.845	(1.053)	58460	5.00000	5.0000

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH18.D
Report Date: 18-Nov-2004 11:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	24 1,1-Dichloropropene	75	10.090	10.091	(0.930)	51361	5.00000	5.0000
$	25 1,2-Dichloroethane-d4	65	10.189	10.190	(0.939)	570120	50.0000	50.0000
	26 Carbon Tetrachloride	117	10.268	10.269	(0.946)	52705	5.00000	5.0000
	27 1,2-Dichloroethane	62	10.337	10.328	(0.953)	71304	5.00000	5.0000
	28 Benzene	78	10.455	10.456	(0.964)	144962	5.00000	5.0000
*	29 1,4-Difluorobenzene	114	10.849	10.851	(1.000)	1290484	50.0000	
	30 Trichloroethene	95	11.431	11.432	(1.054)	43395	5.00000	5.0000
$	31 Trifluorotoluene	146	11.510	11.511	(1.061)	53246	5.00000	5.0000
	32 1,2-Dichloropropane	63	11.638	11.639	(1.073)	39427	5.00000	5.0000
	33 Bromodichloromethane	83	11.973	11.975	(1.104)	62769	5.00000	5.0000
	34 Dibromomethane	93	12.023	12.024	(1.108)	43459	5.00000	5.0000
	35 4-Methyl-2-Pentanone	43	12.535	12.527	(1.155)	43594	5.00000	5.0000
	36 Tetramethyl THF	43	12.733	12.734	(1.174)	82060	5.00000	5.0000
	37 cis-1,3-Dichloropropene	75	12.841	12.842	(1.184)	63335	5.00000	5.0000
$	38 Toluene-d8	98	13.334	13.335	(1.229)	1210635	50.0000	50.0000
	39 Toluene	92	13.472	13.463	(1.242)	79546	5.00000	5.0000
	40 trans-1,3-Dichloropropene	75	13.630	13.631	(1.256)	55097	5.00000	5.0000
	41 1,1,2-Trichloroethane	83	13.906	13.907	(1.282)	35959	5.00000	5.0000
	42 2-Hexanone	43	13.945	13.946	(0.879)	33842	5.00000	5.0000
	43 1,3-Dichloropropane	76	14.320	14.321	(0.902)	63215	5.00000	5.0000
	44 Tetrachloroethene	166	14.616	14.617	(0.921)	38599	5.00000	5.0000
	45 Dibromochloromethane	129	14.783	14.784	(0.932)	47890	5.00000	5.0000
	46 1,2-Dibromoethane	107	15.138	15.139	(1.395)	44635	5.00000	5.0000
*	47 Chlorobenzene-d5	117	15.868	15.869	(1.000)	929727	50.0000	
	48 Chlorobenzene	112	15.927	15.928	(1.004)	95229	5.00000	5.0000
	49 1,1,1,2-Tetrachloroethane	131	15.986	15.987	(1.007)	37752	5.00000	5.0000
	50 Ethylbenzene	91	16.055	16.056	(1.012)	141187	5.00000	5.0000
	51 m,p-Xylenes	106	16.203	16.204	(1.021)	103541	10.0000	10.0000
	52 o-Xylene	106	16.952	16.963	(1.068)	52456	5.00000	5.0000
	53 Styrene	104	16.972	16.983	(1.070)	86519	5.00000	5.0000
	54 Bromoform	173	17.475	17.476	(1.101)	31124	5.00000	5.0000
	55 Isopropylbenzene	105	17.613	17.614	(0.874)	121707	5.00000	5.0000
	56 1,1,2,2-Tetrachloroethane	83	17.771	17.772	(0.882)	51900	5.00000	5.0000
$	57 Bromofluorobenzene	95	17.978	17.979	(0.892)	510927	50.0000	50.0000
	58 1,2,3-Trichloropropane	110	18.027	18.028	(0.894)	13153	5.00000	5.0000
	59 Propylbenzene	91	18.333	18.344	(0.910)	156166	5.00000	5.0000
	60 Bromobenzene	156	18.333	18.344	(0.910)	42443	5.00000	5.0000
	61 2-Chlorotoluene	91	18.619	18.620	(0.924)	118209	5.00000	5.0000
	62 1,3,5-Trimethylbenzene	105	18.628	18.630	(0.924)	108401	5.00000	5.0000
	63 4-Chlorotoluene	91	18.707	18.708	(0.928)	107967	5.00000	5.0000
	64 tert-Butylbenzene	119	19.279	19.280	(0.956)	97234	5.00000	5.0000
	65 1,2,4-Trimethylbenzene	105	19.338	19.339	(0.959)	109099	5.00000	5.0000
	66 sec-Butylbenzene	105	19.673	19.675	(0.976)	132919	5.00000	5.0000
	67 para-Isopropyl Toluene	119	19.920	19.921	(0.988)	105829	5.00000	5.0000
	68 1,3-Dichlorobenzene	146	20.028	20.039	(0.994)	75998	5.00000	5.0000
*	69 1,4-Dichlorobenzene-d4	152	20.157	20.158	(1.000)	490884	50.0000	
	70 1,4-Dichlorobenzene	146	20.206	20.217	(1.002)	77092	5.00000	5.0000
	71 n-Butylbenzene	91	20.669	20.680	(1.025)	107827	5.00000	5.0000
	72 1,2-Dichlorobenzene	146	20.876	20.878	(1.036)	73697	5.00000	5.0000
	73 1,2-Dibromo-3-Chloropropane	75	22.227	22.218	(1.103)	8835	5.00000	5.0000
	74 1,2,4-Trichlorobenzene	180	23.765	23.766	(1.179)	42763	5.00000	5.0000
	75 Hexachlorobutadiene	225	24.041	24.052	(1.193)	24785	5.00000	5.0000
	76 Naphthalene	128	24.120	24.121	(1.197)	87058	5.00000	5.0000
	77 1,2,3-Trichlorobenzene	180	24.544	24.545	(1.218)	43888	5.00000	5.0000

Data File: \\Comsserver\DD\chem\MSVOA03.i\111704.b\CKH18.D
Date : 17-NOV-2004 19:46
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.001/100,04MS2167A,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH19.D
Report Date: 18-Nov-2004 11:26

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 20:21 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS393,0.002/100,04WS2167A,0.004/100
Misc Info : 10PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 20:21 Cal File: CKH19.D
Als bottle: 19 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.584	3.574	(0.383)	74855	10.0000	11.0642
2 Chloromethane	50	4.018	4.008	(0.429)	79703	10.0000	10.4752
3 Vinyl Chloride	62	4.156	4.136	(0.444)	62938	10.0000	10.7405
4 Bromomethane	94	4.826	4.817	(0.516)	53082	10.0000	10.5235
5 Chloroethane	64	4.954	4.945	(0.529)	40346	10.0000	10.6220
6 Trichlorofluoromethane	101	5.418	5.408	(0.579)	122830	10.0000	10.9402
7 Acetone	43	5.980	5.970	(0.639)	31718	10.0000	10.0000
8 Freon 113	101	6.118	6.118	(0.654)	73007	10.0000	10.8419
9 1,1-Dichloroethene	96	6.305	6.305	(0.674)	64553	10.0000	10.8821
10 Methylene Chloride	84	6.936	6.927	(0.741)	91538	10.0000	10.4923
11 Carbon Disulfide	76	7.044	7.035	(0.753)	246271	10.0000	8.9305
12 MTBE	73	7.271	7.272	(0.777)	214745	10.0000	10.8870
13 trans-1,2-Dichloroethene	96	7.449	7.449	(0.796)	79520	10.0000	10.8030
14 Vinyl Acetate	43	7.991	7.982	(0.854)	153113	10.0000	11.6098
15 1,1-Dichloroethane	63	8.030	8.021	(0.858)	146781	10.0000	10.7871
16 2-Butanone	43	8.573	8.563	(0.916)	45107	10.0000	10.6156
17 2,2-Dichloropropane	77	8.918	8.918	(0.953)	105179	10.0000	10.8576
18 cis-1,2-Dichloroethene	96	8.918	8.918	(0.953)	91876	10.0000	10.8567
19 Chloroform	83	9.164	9.165	(0.979)	169464	10.0000	10.7890
* 20 Pentafluorobenzene	168	9.361	9.352	(1.000)	742819	50.0000	
21 Bromochloromethane	128	9.371	9.372	(1.001)	50355	10.0000	10.6304
$ 22 Dibromofluoromethane	113	9.460	9.460	(1.011)	506848	50.0000	51.8098

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH19.D
Report Date: 18-Nov-2004 11:26

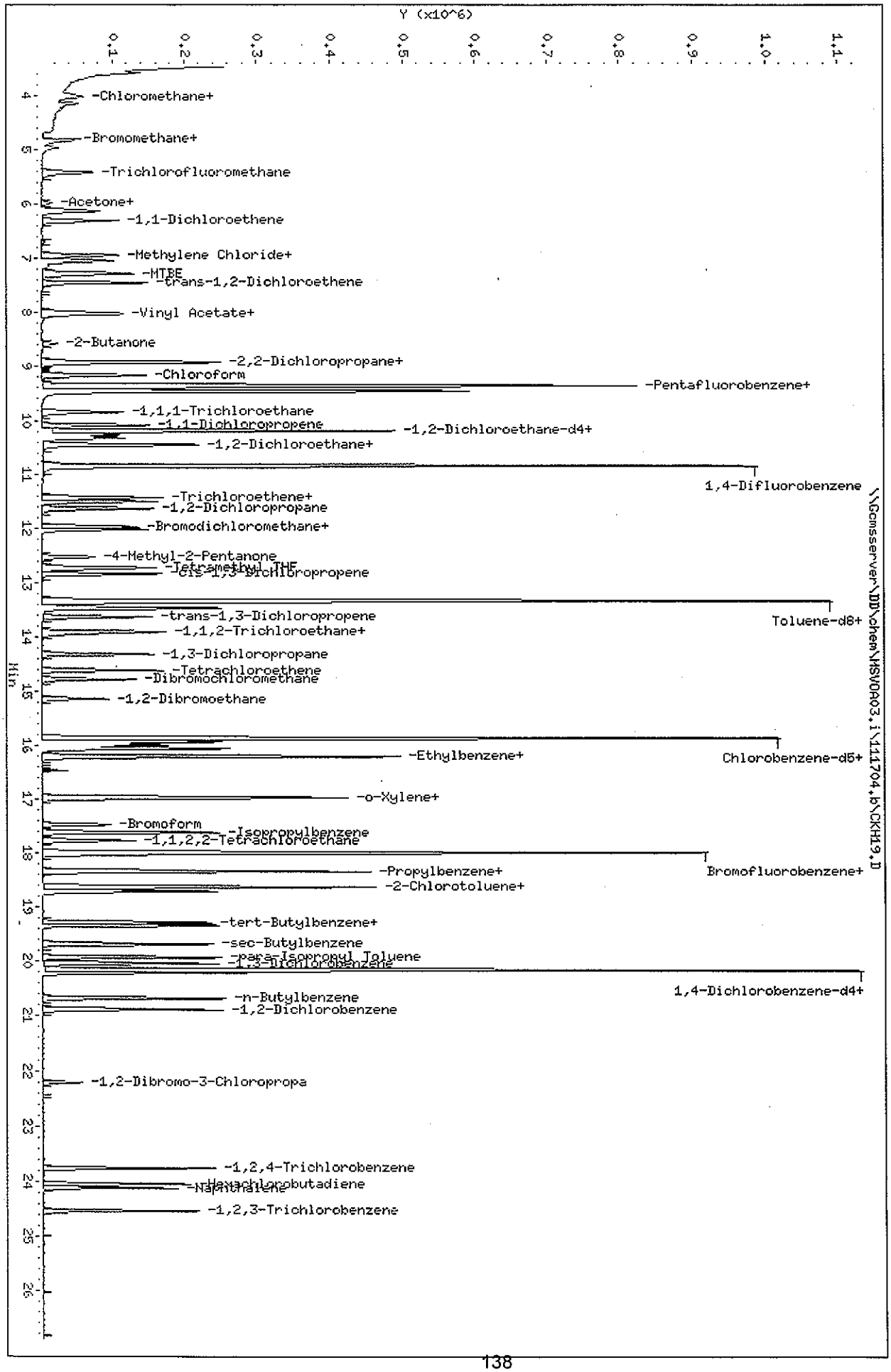
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.844	9.845	(1.052)	118567	10.0000	10.9615
	24 1,1-Dichloropropene	75	10.091	10.091	(0.930)	103088	10.0000	10.6130
$	25 1,2-Dichloroethane-d4	65	10.199	10.190	(0.940)	524353	50.0000	50.8878
	26 Carbon Tetrachloride	117	10.268	10.269	(0.946)	102025	10.0000	10.4325
	27 1,2-Dichloroethane	62	10.337	10.328	(0.953)	133127	10.0000	10.2519
	28 Benzene	78	10.456	10.456	(0.964)	282172	10.0000	10.4601
*	29 1,4-Difluorobenzene	114	10.850	10.851	(1.000)	1145473	50.0000	
	30 Trichloroethene	95	11.432	11.432	(1.054)	87416	10.0000	10.6311
$	31 Trifluorotoluene	146	11.511	11.511	(1.061)	103931	10.0000	10.4739
	32 1,2-Dichloropropane	63	11.639	11.639	(1.073)	80420	10.0000	10.6932
	33 Bromodichloromethane	83	11.974	11.975	(1.104)	126405	10.0000	10.6296
	34 Dibromomethane	93	12.023	12.024	(1.108)	84759	10.0000	10.4699
	35 4-Methyl-2-Pentanone	43	12.536	12.527	(1.155)	87570	10.0000	10.6171
	36 Tetramethyl THF	43	12.733	12.734	(1.174)	165665	10.0000	10.6419
	37 cis-1,3-Dichloropropene	75	12.842	12.842	(1.184)	127022	10.0000	10.6091
$	38 Toluene-d8	98	13.335	13.335	(1.229)	1095196	50.0000	50.4746
	39 Toluene	92	13.473	13.463	(1.242)	160253	10.0000	10.6315
	40 trans-1,3-Dichloropropene	75	13.640	13.631	(1.257)	116329	10.0000	10.8647
	41 1,1,2-Trichloroethane	83	13.906	13.907	(1.282)	71679	10.0000	10.5787
	42 2-Hexanone	43	13.946	13.946	(0.879)	66782	10.0000	10.3225
	43 1,3-Dichloropropane	76	14.321	14.321	(0.902)	127543	10.0000	10.4332
	44 Tetrachloroethene	166	14.616	14.617	(0.921)	77373	10.0000	10.4008
	45 Dibromochloromethane	129	14.784	14.784	(0.932)	96010	10.0000	10.4014
	46 1,2-Dibromoethane	107	15.139	15.139	(1.395)	89288	10.0000	10.5963
*	47 Chlorobenzene-d5	117	15.868	15.869	(1.000)	860017	50.0000	
	48 Chlorobenzene	112	15.928	15.928	(1.004)	191290	10.0000	10.4112
	49 1,1,1,2-Tetrachloroethane	131	15.987	15.987	(1.007)	72849	10.0000	10.2106
	50 Ethylbenzene	91	16.056	16.056	(1.012)	291790	10.0000	10.5531
	51 m,p-Xylenes	106	16.204	16.204	(1.021)	209475	20.0000	20.8936
	52 o-Xylene	106	16.963	16.963	(1.069)	108428	10.0000	10.5539
	53 Styrene	104	16.973	16.983	(1.070)	181386	10.0000	10.6244
	54 Bromoform	173	17.476	17.476	(1.101)	65627	10.0000	10.6530
	55 Isopropylbenzene	105	17.614	17.614	(0.874)	259206	10.0000	10.6420
	56 1,1,2,2-Tetrachloroethane	83	17.761	17.772	(0.881)	106320	10.0000	10.4483
$	57 Bromofluorobenzene	95	17.978	17.979	(0.892)	481545	50.0000	50.1626
	58 1,2,3-Trichloropropane	110	18.028	18.028	(0.894)	27480	10.0000	10.5465
	59 Propylbenzene	91	18.333	18.344	(0.910)	326755	10.0000	10.5538
	60 Bromobenzene	156	18.343	18.344	(0.910)	87493	10.0000	10.4795
	61 2-Chlorotoluene	91	18.619	18.620	(0.924)	239745	10.0000	10.3983
	62 1,3,5-Trimethylbenzene	105	18.629	18.630	(0.924)	217494	10.0000	10.3444
	63 4-Chlorotoluene	91	18.708	18.708	(0.928)	223822	10.0000	10.5076
	64 tert-Butylbenzene	119	19.280	19.280	(0.956)	204806	10.0000	10.5869
	65 1,2,4-Trimethylbenzene	105	19.339	19.339	(0.959)	223615	10.0000	10.4509
	66 sec-Butylbenzene	105	19.674	19.675	(0.976)	270024	10.0000	10.4065
	67 para-Isopropyl Toluene	119	19.921	19.921	(0.988)	219373	10.0000	10.5072
	68 1,3-Dichlorobenzene	146	20.039	20.039	(0.994)	154712	10.0000	10.4169
*	69 1,4-Dichlorobenzene-d4	152	20.157	20.158	(1.000)	459654	50.0000	
	70 1,4-Dichlorobenzene	146	20.216	20.217	(1.003)	161745	10.0000	10.5674
	71 n-Butylbenzene	91	20.670	20.680	(1.025)	223230	10.0000	10.5008
	72 1,2-Dichlorobenzene	146	20.877	20.878	(1.036)	151256	10.0000	10.4576
	73 1,2-Dibromo-3-Chloropropane	75	22.218	22.218	(1.102)	19563	10.0000	10.8355
	74 1,2,4-Trichlorobenzene	180	23.766	23.766	(1.179)	90406	10.0000	10.6054
	75 Hexachlorobutadiene	225	24.052	24.052	(1.193)	47766	10.0000	10.1433
	76 Naphthalene	128	24.121	24.121	(1.197)	183355	10.0000	10.5865

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH19.D
Report Date: 18-Nov-2004 11:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.545	24.545	(1.218)	88207	10.0000	10.3530

Data File: \\Comsserver\DD\chem\MSVOA03.i\111704.b\CKH19.D
Date : 17-NOV-2004 20:21
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.002/100,04WS2167A,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH20.D
Report Date: 18-Nov-2004 11:26

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH20.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 20:55 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS393,0.004/100,04WS2167A,0.008/100
Misc Info : 20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 20:55 Cal File: CKH20.D
Als bottle: 20 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.580	3.574	(0.383)	167646	20.0000	21.6225
2 Chloromethane	50	4.014	4.008	(0.429)	153850	20.0000	18.8972
3 Vinyl Chloride	62	4.152	4.136	(0.444)	122292	20.0000	19.3086
4 Bromomethane	94	4.822	4.817	(0.515)	110477	20.0000	19.9464
5 Chloroethane	64	4.950	4.945	(0.529)	80963	20.0000	19.5864
6 Trichlorofluoromethane	101	5.414	5.408	(0.579)	256886	20.0000	20.5324
7 Acetone	43	5.976	5.970	(0.639)	62325	20.0000	18.8758
8 Freon 113	101	6.123	6.118	(0.654)	148326	20.0000	20.0223
9 1,1-Dichloroethene	96	6.301	6.305	(0.673)	137221	20.0000	20.6806
10 Methylene Chloride	84	6.932	6.927	(0.741)	179917	20.0000	19.1532
11 Carbon Disulfide	76	7.040	7.035	(0.752)	459652	20.0000	16.4899
12 MTBE	73	7.277	7.272	(0.778)	428378	20.0000	19.8339
13 trans-1,2-Dichloroethene	96	7.445	7.449	(0.796)	157065	20.0000	19.6003
14 Vinyl Acetate	43	7.987	7.982	(0.854)	303243	20.0000	20.5991
15 1,1-Dichloroethane	63	8.026	8.021	(0.858)	291000	20.0000	19.6301
16 2-Butanone	43	8.569	8.563	(0.916)	98526	20.0000	20.7128
17 2,2-Dichloropropane	77	8.914	8.918	(0.953)	216568	20.0000	20.2207
18 cis-1,2-Dichloroethene	96	8.914	8.918	(0.953)	182748	20.0000	19.7587
19 Chloroform	83	9.160	9.165	(0.979)	333533	20.0000	19.5364
* 20 Pentafluorobenzene	168	9.357	9.352	(1.000)	816742	50.0000	
21 Bromochloromethane	128	9.367	9.372	(1.001)	106658	20.0000	20.3165
$ 22 Dibromofluoromethane	113	9.456	9.460	(1.011)	523165	50.0000	49.0833

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH20.D
Report Date: 18-Nov-2004 11:26

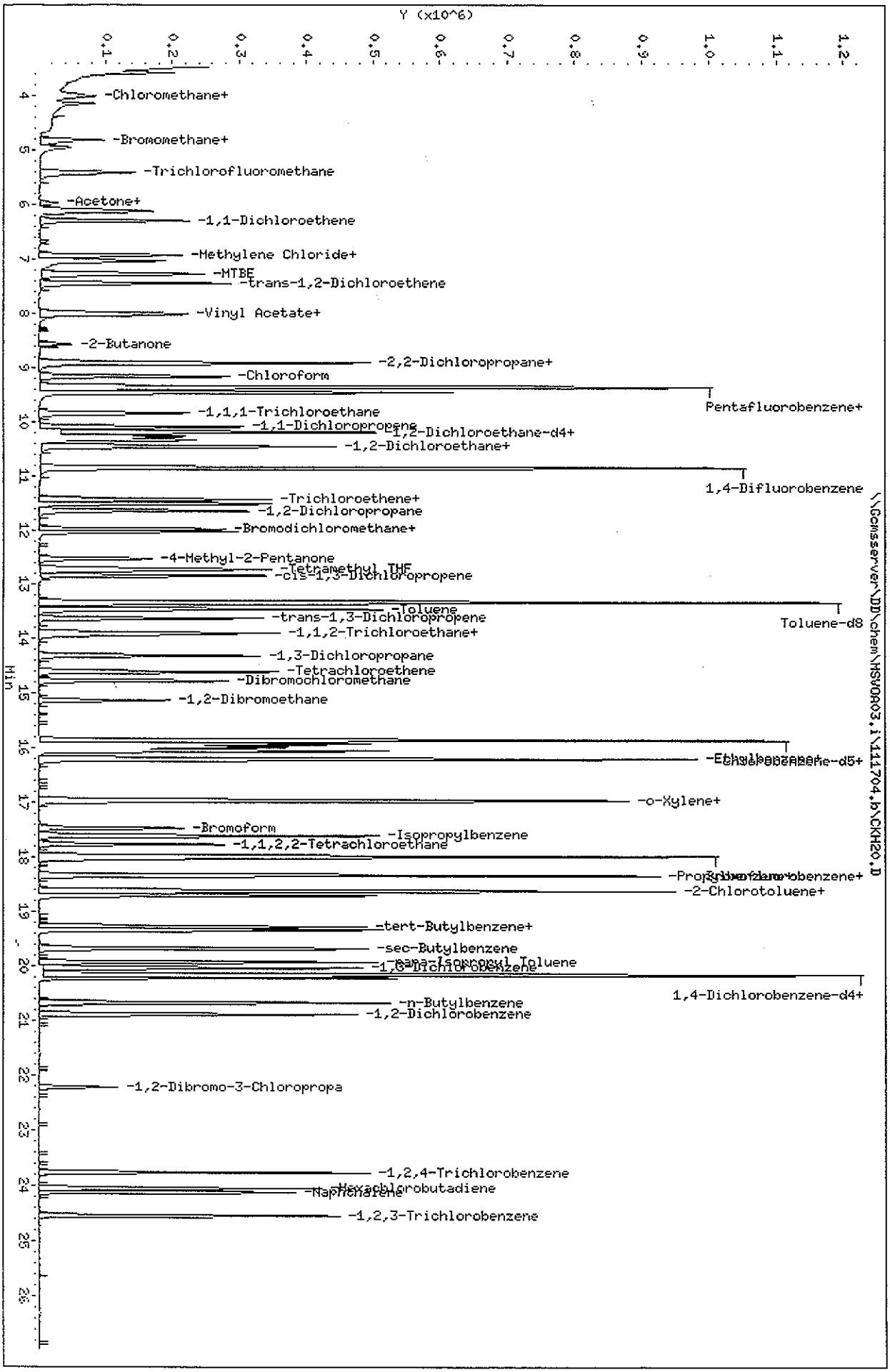
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.840	9.845	(1.052)	238502	20.0000	20.0358
	24 1,1-Dichloropropene	75	10.087	10.091	(0.930)	215127	20.0000	20.6307
$	25 1,2-Dichloroethane-d4	65	10.186	10.190	(0.939)	540947	50.0000	49.7905
	26 Carbon Tetrachloride	117	10.264	10.269	(0.946)	210702	20.0000	20.2591
	27 1,2-Dichloroethane	62	10.333	10.328	(0.953)	265438	20.0000	19.5593
	28 Benzene	78	10.452	10.456	(0.964)	570563	20.0000	20.0119
*	29 1,4-Difluorobenzene	114	10.846	10.851	(1.000)	1210298	50.0000	
	30 Trichloroethene	95	11.428	11.432	(1.054)	175530	20.0000	20.1353
$	31 Trifluorotoluene	146	11.507	11.511	(1.061)	224801	20.0000	20.9385
	32 1,2-Dichloropropane	63	11.645	11.639	(1.074)	163102	20.0000	20.3474
	33 Bromodichloromethane	83	11.970	11.975	(1.104)	260504	20.0000	20.4826
	34 Dibromomethane	93	12.019	12.024	(1.108)	173434	20.0000	20.1832
	35 4-Methyl-2-Pentanone	43	12.532	12.527	(1.155)	196228	20.0000	21.6102
	36 Tetramethyl THF	43	12.729	12.734	(1.174)	349036	20.0000	20.7973
	37 cis-1,3-Dichloropropene	75	12.848	12.842	(1.185)	272276	20.0000	20.9902
$	38 Toluene-d8	98	13.340	13.335	(1.230)	1181107	50.0000	51.0022
	39 Toluene	92	13.469	13.463	(1.242)	330696	20.0000	20.5029
	40 trans-1,3-Dichloropropene	75	13.636	13.631	(1.257)	254920	20.0000	21.6205
	41 1,1,2-Trichloroethane	83	13.902	13.907	(1.282)	149942	20.0000	20.6195
	42 2-Hexanone	43	13.942	13.946	(0.879)	141699	20.0000	20.1467
	43 1,3-Dichloropropane	76	14.317	14.321	(0.902)	269844	20.0000	20.2510
	44 Tetrachloroethene	166	14.612	14.617	(0.921)	163948	20.0000	20.2297
	45 Dibromochloromethane	129	14.780	14.784	(0.932)	208363	20.0000	20.5525
	46 1,2-Dibromoethane	107	15.135	15.139	(1.395)	191135	20.0000	20.9553
*	47 Chlorobenzene-d5	117	15.864	15.869	(1.000)	931537	50.0000	
	48 Chlorobenzene	112	15.933	15.928	(1.004)	388183	20.0000	19.6675
	49 1,1,1,2-Tetrachloroethane	131	15.993	15.987	(1.008)	158961	20.0000	20.3762
	50 Ethylbenzene	91	16.062	16.056	(1.012)	604318	20.0000	20.1184
	51 m,p-Xylenes	106	16.210	16.204	(1.022)	427032	40.0000	39.5463
	52 o-Xylene	106	16.959	16.963	(1.069)	219114	20.0000	19.7924
	53 Styrene	104	16.979	16.983	(1.070)	372417	20.0000	20.0925
	54 Bromoform	173	17.472	17.476	(1.101)	149495	20.0000	21.5409
	55 Isopropylbenzene	105	17.610	17.614	(0.874)	544311	20.0000	20.8890
	56 1,1,2,2-Tetrachloroethane	83	17.767	17.772	(0.882)	225387	20.0000	20.7678
$	57 Bromofluorobenzene	95	17.984	17.979	(0.892)	501433	50.0000	49.9567
	58 1,2,3-Trichloropropane	110	18.033	18.028	(0.895)	57103	20.0000	20.6239
	59 Propylbenzene	91	18.339	18.344	(0.910)	668336	20.0000	20.4197
	60 Bromobenzene	156	18.339	18.344	(0.910)	177132	20.0000	20.1873
	61 2-Chlorotoluene	91	18.625	18.620	(0.924)	484206	20.0000	20.0511
	62 1,3,5-Trimethylbenzene	105	18.625	18.630	(0.924)	450415	20.0000	20.3172
	63 4-Chlorotoluene	91	18.704	18.708	(0.928)	457094	20.0000	20.3399
	64 tert-Butylbenzene	119	19.276	19.280	(0.956)	413732	20.0000	20.2948
	65 1,2,4-Trimethylbenzene	105	19.335	19.339	(0.959)	458793	20.0000	20.3296
	66 sec-Butylbenzene	105	19.670	19.675	(0.976)	569918	20.0000	20.6541
	67 para-Isopropyl Toluene	119	19.926	19.921	(0.989)	450528	20.0000	20.4149
	68 1,3-Dichlorobenzene	146	20.035	20.039	(0.994)	304701	20.0000	19.7402
*	69 1,4-Dichlorobenzene-d4	152	20.153	20.158	(1.000)	480819	50.0000	
	70 1,4-Dichlorobenzene	146	20.212	20.217	(1.003)	315672	20.0000	19.8099
	71 n-Butylbenzene	91	20.676	20.680	(1.026)	461318	20.0000	20.4908
	72 1,2-Dichlorobenzene	146	20.883	20.878	(1.036)	299174	20.0000	19.8488
	73 1,2-Dibromo-3-Chloropropane	75	22.224	22.218	(1.103)	40647	20.0000	20.9900
	74 1,2,4-Trichlorobenzene	180	23.762	23.766	(1.179)	187630	20.0000	20.6826
	75 Hexachlorobutadiene	225	24.048	24.052	(1.193)	99053	20.0000	20.0721
	76 Naphthalene	128	24.117	24.121	(1.197)	390361	20.0000	21.0050

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH20.D
Report Date: 18-Nov-2004 11:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.541	24.545	(1.218)	183001	20.0000	20.3526

Data File: \\Comsserver\DD\chem\MSVOA03.i\111704.b\CKH20.D
Date : 17-NOV-2004 20:55
Client ID: DYNA P&T
Sample Info: ICAL,0488393,0.004/100,04W521674,0.008/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH21.D
Report Date: 18-Nov-2004 11:26

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH21.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 21:28 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS393,0.01/100,04WS2167A,0.02/100
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 21:28 Cal File: CKH21.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.583	3.574	(0.383)	509172	50.0000	61.1127
2 Chloromethane	50	4.017	4.008	(0.430)	412659	50.0000	50.7028
3 Vinyl Chloride	62	4.145	4.136	(0.443)	323058	50.0000	50.9424
4 Bromomethane	94	4.815	4.817	(0.515)	309107	50.0000	54.4324
5 Chloroethane	64	4.954	4.945	(0.530)	214853	50.0000	51.6605
6 Trichlorofluoromethane	101	5.417	5.408	(0.579)	746566	50.0000	57.1240
7 Acetone	43	5.969	5.970	(0.638)	146491	50.0000	46.2584
8 Freon 113	101	6.117	6.118	(0.654)	391518	50.0000	52.3018
9 1,1-Dichloroethene	96	6.304	6.305	(0.674)	354463	50.0000	52.7176
10 Methylene Chloride	84	6.935	6.927	(0.742)	448499	50.0000	48.4739
11 Carbon Disulfide	76	7.034	7.035	(0.752)	1178957	50.0000	44.1623
12 MTBE	73	7.270	7.272	(0.778)	1067567	50.0000	49.7577
13 trans-1,2-Dichloroethene	96	7.448	7.449	(0.796)	405763	50.0000	50.6651
14 Vinyl Acetate	43	7.980	7.982	(0.853)	765523	50.0000	51.6786
15 1,1-Dichloroethane	63	8.020	8.021	(0.858)	725167	50.0000	49.3706
16 2-Butanone	43	8.562	8.563	(0.916)	244277	50.0000	51.1997
17 2,2-Dichloropropane	77	8.917	8.918	(0.954)	554483	50.0000	51.5088
18 cis-1,2-Dichloroethene	96	8.917	8.918	(0.954)	452800	50.0000	49.4001
19 Chloroform	83	9.163	9.165	(0.980)	842599	50.0000	49.7019
* 20 Pentafluorobenzene	168	9.351	9.352	(1.000)	812648	50.0000	
21 Bromochloromethane	128	9.370	9.372	(1.002)	259464	50.0000	49.7540
$ 22 Dibromofluoromethane	113	9.459	9.460	(1.012)	522703	50.0000	49.4634

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH21.D
Report Date: 18-Nov-2004 11:26

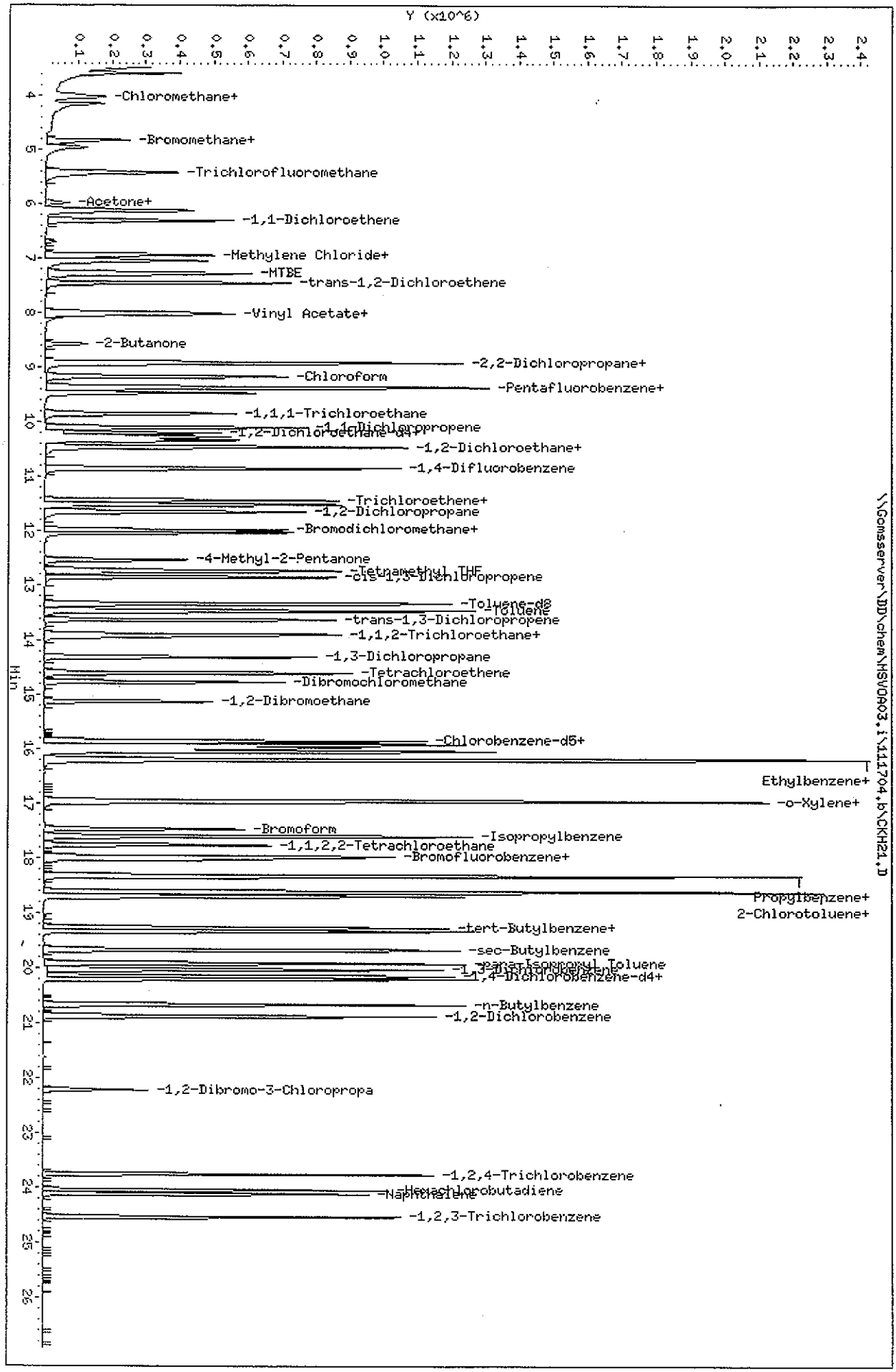
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.844	9.845	(1.053)	605647	50.0000	50.8464
	24 1,1-Dichloropropene	75	10.090	10.091	(0.930)	548977	50.0000	51.4934
$	25 1,2-Dichloroethane-d4	65	10.189	10.190	(0.939)	544219	50.0000	49.6140
	26 Carbon Tetrachloride	117	10.268	10.269	(0.946)	537482	50.0000	50.7872
	27 1,2-Dichloroethane	62	10.337	10.328	(0.953)	652152	50.0000	48.0818
	28 Benzene	78	10.455	10.456	(0.964)	1386925	50.0000	48.5289
*	29 1,4-Difluorobenzene	114	10.849	10.851	(1.000)	1225094	50.0000	
	30 Trichloroethene	95	11.431	11.432	(1.054)	441656	50.0000	50.0384
$	31 Trifluorotoluene	146	11.510	11.511	(1.061)	570435	50.0000	51.8444
	32 1,2-Dichloropropane	63	11.638	11.639	(1.073)	399265	50.0000	49.4033
	33 Bromodichloromethane	83	11.973	11.975	(1.104)	657657	50.0000	50.8094
	34 Dibromomethane	93	12.023	12.024	(1.108)	427791	50.0000	49.3843
	35 4-Methyl-2-Pentanone	43	12.525	12.527	(1.154)	501863	50.0000	53.3736
	36 Tetramethyl THF	43	12.732	12.734	(1.174)	890402	50.0000	51.7889
	37 cis-1,3-Dichloropropene	75	12.841	12.842	(1.184)	690467	50.0000	51.9149
$	38 Toluene-d8	98	13.334	13.335	(1.229)	1187624	50.0000	50.4965
	39 Toluene	92	13.472	13.463	(1.242)	826870	50.0000	50.4830
	40 trans-1,3-Dichloropropene	75	13.630	13.631	(1.256)	649543	50.0000	53.2464
	41 1,1,2-Trichloroethane	83	13.906	13.907	(1.282)	370045	50.0000	50.2042
	42 2-Hexanone	43	13.945	13.946	(0.879)	370115	50.0000	51.0948
	43 1,3-Dichloropropane	76	14.320	14.321	(0.902)	665110	50.0000	49.1110
	44 Tetrachloroethene	166	14.616	14.617	(0.921)	420348	50.0000	50.5465
	45 Dibromochloromethane	129	14.783	14.784	(0.932)	528630	50.0000	50.7471
	46 1,2-Dibromoethane	107	15.138	15.139	(1.395)	487454	50.0000	52.0690
*	47 Chlorobenzene-d5	117	15.868	15.869	(1.000)	952393	50.0000	
	48 Chlorobenzene	112	15.927	15.928	(1.004)	975558	50.0000	48.7482
	49 1,1,1,2-Tetrachloroethane	131	15.986	15.987	(1.007)	397708	50.0000	49.8975
	50 Ethylbenzene	91	16.055	16.056	(1.012)	1507402	50.0000	49.3100
	51 m,p-Xylenes	106	16.203	16.204	(1.021)	1080342	100.000	98.3838
	52 o-Xylene	106	16.962	16.963	(1.069)	531388	50.0000	47.6761
	53 Styrene	104	16.982	16.983	(1.070)	950303	50.0000	50.1106
	54 Bromoform	173	17.475	17.476	(1.101)	401993	50.0000	54.8307
	55 Isopropylbenzene	105	17.613	17.614	(0.874)	1352965	50.0000	51.0488
	56 1,1,2,2-Tetrachloroethane	83	17.771	17.772	(0.882)	553775	50.0000	50.3897
$	57 Bromofluorobenzene	95	17.978	17.979	(0.892)	515234	50.0000	50.6148
	58 1,2,3-Trichloropropane	110	18.027	18.028	(0.894)	139097	50.0000	49.8047
	59 Propylbenzene	91	18.333	18.344	(0.910)	1674139	50.0000	50.4810
	60 Bromobenzene	156	18.342	18.344	(0.910)	425627	50.0000	48.5055
	61 2-Chlorotoluene	91	18.618	18.620	(0.924)	1207597	50.0000	49.6327
	62 1,3,5-Trimethylbenzene	105	18.628	18.630	(0.924)	1131962	50.0000	50.4147
	63 4-Chlorotoluene	91	18.707	18.708	(0.928)	1126671	50.0000	49.7282
	64 tert-Butylbenzene	119	19.279	19.280	(0.956)	1035152	50.0000	50.2054
	65 1,2,4-Trimethylbenzene	105	19.338	19.339	(0.959)	1118318	50.0000	49.2938
	66 sec-Butylbenzene	105	19.673	19.675	(0.976)	1414606	50.0000	50.5664
	67 para-Isopropyl Toluene	119	19.920	19.921	(0.988)	1114225	50.0000	49.9918
	68 1,3-Dichlorobenzene	146	20.028	20.039	(0.994)	742847	50.0000	48.2157
*	69 1,4-Dichlorobenzene-d4	152	20.157	20.158	(1.000)	485630	50.0000	
	70 1,4-Dichlorobenzene	146	20.216	20.217	(1.003)	759436	50.0000	47.8594
	71 n-Butylbenzene	91	20.669	20.680	(1.025)	1124582	50.0000	49.5915
	72 1,2-Dichlorobenzene	146	20.876	20.878	(1.036)	714138	50.0000	47.6463
	73 1,2-Dibromo-3-Chloropropane	75	22.217	22.218	(1.102)	109165	50.0000	54.2373
	74 1,2,4-Trichlorobenzene	180	23.765	23.766	(1.179)	428125	50.0000	47.5029
	75 Hexachlorobutadiene	225	24.051	24.052	(1.193)	234758	50.0000	47.7932
	76 Naphthalene	128	24.120	24.121	(1.197)	963215	50.0000	50.9809

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH21.D
Report Date: 18-Nov-2004 11:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.544	24.545	(1.218)	420321	50.0000	47.1597

Data File: \\Gomsserver\DD\chem\MSVOA03.i\111704.b\CKH21.D
Date : 17-NOV-2004 21:28
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.01/100,04WS2167A,0.02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH22.D
Report Date: 18-Nov-2004 11:26

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH22.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 22:02 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS393,0.012/100,04WS2167A,0.024/100
Misc Info : 60PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 22:02 Cal File: CKH22.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.578	3.574	(0.383)	623333	60.0000	68.2997
2 Chloromethane	50	4.012	4.008	(0.429)	525618	60.0000	60.8530
3 Vinyl Chloride	62	4.140	4.136	(0.443)	382837	60.0000	57.6460
4 Bromomethane	94	4.821	4.817	(0.515)	382529	60.0000	62.9229
5 Chloroethane	64	4.959	4.945	(0.530)	267904	60.0000	60.7286
6 Trichlorofluoromethane	101	5.412	5.408	(0.579)	902688	60.0000	64.1771
7 Acetone	43	5.974	5.970	(0.639)	189791	60.0000	57.4693
8 Freon 113	101	6.122	6.118	(0.654)	492614	60.0000	61.7696
9 1,1-Dichloroethene	96	6.300	6.305	(0.673)	445165	60.0000	62.0677
10 Methylene Chloride	84	6.931	6.927	(0.741)	554715	60.0000	57.3254
11 Carbon Disulfide	76	7.039	7.035	(0.752)	1499101	60.0000	54.3508
12 MTBE	73	7.276	7.272	(0.778)	1386454	60.0000	60.8820
13 trans-1,2-Dichloroethene	96	7.453	7.449	(0.797)	517290	60.0000	60.8596
14 Vinyl Acetate	43	7.986	7.982	(0.854)	990588	60.0000	62.5610
15 1,1-Dichloroethane	63	8.025	8.021	(0.858)	934470	60.0000	60.1285
16 2-Butanone	43	8.567	8.563	(0.916)	316086	60.0000	62.0998
17 2,2-Dichloropropane	77	8.912	8.918	(0.953)	731053	60.0000	63.3280
18 cis-1,2-Dichloroethene	96	8.912	8.918	(0.953)	571139	60.0000	59.1348
19 Chloroform	83	9.169	9.165	(0.980)	1065975	60.0000	59.5663
* 20 Pentafluorobenzene	168	9.356	9.352	(1.000)	859379	50.0000	
21 Bromochloromethane	128	9.376	9.372	(1.002)	332980	60.0000	60.3028
$ 22 Dibromofluoromethane	113	9.455	9.460	(1.011)	569710	50.0000	50.7809

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH22.D
Report Date: 18-Nov-2004 11:26

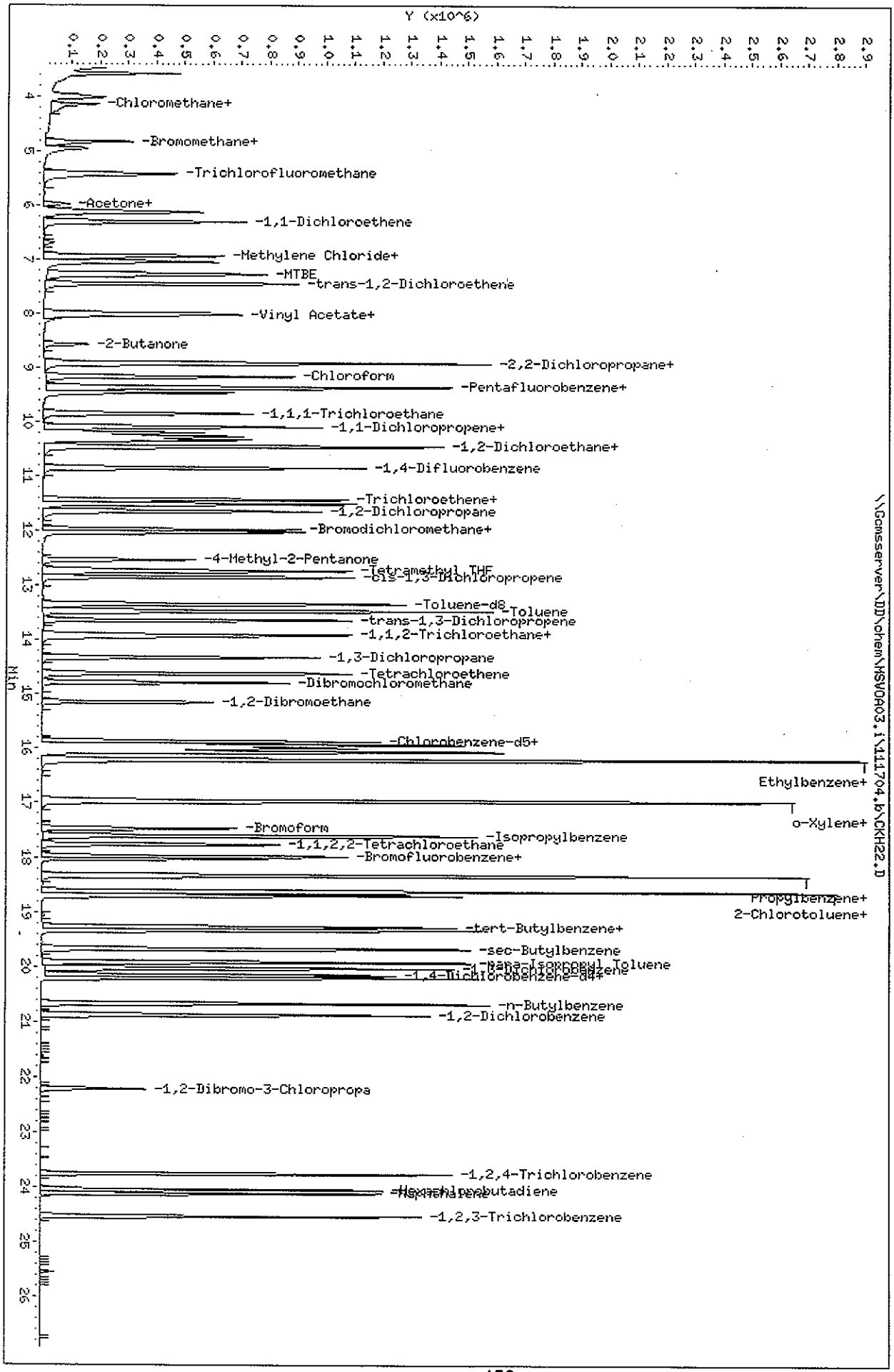
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.839	9.845	(1.052)	790992	60.0000	62.2159
	24 1,1-Dichloropropene	75	10.086	10.091	(0.930)	717800	60.0000	63.0662
$	25 1,2-Dichloroethane-d4	65	10.194	10.190	(0.940)	576950	50.0000	49.9244
	26 Carbon Tetrachloride	117	10.263	10.269	(0.946)	709427	60.0000	62.8483
	27 1,2-Dichloroethane	62	10.332	10.328	(0.953)	831913	60.0000	58.5478
	28 Benzene	78	10.450	10.456	(0.964)	1784970	60.0000	59.4062
*	29 1,4-Difluorobenzene	114	10.845	10.851	(1.000)	1291187	50.0000	
	30 Trichloroethene	95	11.426	11.432	(1.054)	559157	60.0000	60.0864
$	31 Trifluorotoluene	146	11.505	11.511	(1.061)	715354	60.0000	61.3424
	32 1,2-Dichloropropane	63	11.643	11.639	(1.074)	510007	60.0000	59.9006
	33 Bromodichloromethane	83	11.979	11.975	(1.105)	829429	60.0000	60.6384
	34 Dibromomethane	93	12.028	12.024	(1.109)	545988	60.0000	59.8420
	35 4-Methyl-2-Pentanone	43	12.531	12.527	(1.155)	639005	60.0000	63.5314
	36 Tetramethyl THF	43	12.728	12.734	(1.174)	1109949	60.0000	60.9990
	37 cis-1,3-Dichloropropene	75	12.846	12.842	(1.185)	876693	60.0000	62.0171
$	38 Toluene-d8	98	13.339	13.335	(1.230)	1262429	50.0000	50.7408
	39 Toluene	92	13.467	13.463	(1.242)	1026543	60.0000	59.5717
	40 trans-1,3-Dichloropropene	75	13.635	13.631	(1.257)	821847	60.0000	63.0975
	41 1,1,2-Trichloroethane	83	13.901	13.907	(1.282)	462872	60.0000	59.6665
	42 2-Hexanone	43	13.950	13.946	(0.879)	461784	60.0000	61.6699
	43 1,3-Dichloropropane	76	14.315	14.321	(0.902)	828764	60.0000	59.6903
	44 Tetrachloroethene	166	14.621	14.617	(0.922)	513395	60.0000	60.1116
	45 Dibromochloromethane	129	14.779	14.784	(0.932)	656076	60.0000	61.0781
	46 1,2-Dibromoethane	107	15.143	15.139	(1.396)	596833	60.0000	60.3908
*	47 Chlorobenzene-d5	117	15.863	15.869	(1.000)	977662	50.0000	
	48 Chlorobenzene	112	15.932	15.928	(1.004)	1179609	60.0000	57.9189
	49 1,1,1,2-Tetrachloroethane	131	15.991	15.987	(1.008)	485481	60.0000	59.4671
	50 Ethylbenzene	91	16.060	16.056	(1.012)	1865078	60.0000	59.5459
	51 m,p-Xylenes	106	16.208	16.204	(1.022)	1314596	120.000	117.2827
	52 o-Xylene	106	16.958	16.963	(1.069)	658281	60.0000	58.0112
	53 Styrene	104	16.977	16.983	(1.070)	1156169	60.0000	59.5113
	54 Bromoform	173	17.470	17.476	(1.101)	480863	60.0000	63.0746
	55 Isopropylbenzene	105	17.608	17.614	(0.874)	1649520	60.0000	61.2992
	56 1,1,2,2-Tetrachloroethane	83	17.766	17.772	(0.882)	681871	60.0000	61.1483
$	57 Bromofluorobenzene	95	17.983	17.979	(0.892)	524343	50.0000	50.8038
	58 1,2,3-Trichloropropane	110	18.032	18.028	(0.895)	170440	60.0000	60.3466
	59 Propylbenzene	91	18.338	18.344	(0.910)	2025551	60.0000	60.3860
	60 Bromobenzene	156	18.338	18.344	(0.910)	517298	60.0000	58.6964
	61 2-Chlorotoluene	91	18.624	18.620	(0.924)	1430446	60.0000	58.5676
	62 1,3,5-Trimethylbenzene	105	18.624	18.630	(0.924)	1345402	60.0000	59.4693
	63 4-Chlorotoluene	91	18.703	18.708	(0.928)	1389119	60.0000	60.5713
	64 tert-Butylbenzene	119	19.274	19.280	(0.956)	1272471	60.0000	60.8890
	65 1,2,4-Trimethylbenzene	105	19.334	19.339	(0.959)	1393060	60.0000	60.6438
	66 sec-Butylbenzene	105	19.679	19.675	(0.977)	1775885	60.0000	62.2690
	67 para-Isopropyl Toluene	119	19.925	19.921	(0.989)	1372552	60.0000	60.7840
	68 1,3-Dichlorobenzene	146	20.034	20.039	(0.994)	913605	60.0000	58.9736
*	69 1,4-Dichlorobenzene-d4	152	20.152	20.158	(1.000)	490398	50.0000	
	70 1,4-Dichlorobenzene	146	20.211	20.217	(1.003)	925840	60.0000	58.2098
	71 n-Butylbenzene	91	20.674	20.680	(1.026)	1405248	60.0000	61.0876
	72 1,2-Dichlorobenzene	146	20.882	20.878	(1.036)	881461	60.0000	58.5821
	73 1,2-Dibromo-3-Chloropropane	75	22.222	22.218	(1.103)	130760	60.0000	63.4183
	74 1,2,4-Trichlorobenzene	180	23.760	23.766	(1.179)	543983	60.0000	59.8167
	75 Hexachlorobutadiene	225	24.046	24.052	(1.193)	295910	60.0000	59.7252
	76 Naphthalene	128	24.115	24.121	(1.197)	1244465	60.0000	64.1095

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH22.D
Report Date: 18-Nov-2004 11:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.539	24.545	(1.218)	539658	60.0000	59.9683

Data File: \\Comsserver\DD\chem\MSVOA03.i\111704.b\CKH22.D
Date : 17-NOV-2004 22:02
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.012/100,04WS2167A,0.024/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



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Report Date: 18-Nov-2004 11:26

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH23.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 22:35 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS393,0.015/100,04WS2167A,0.03/100
Misc Info : 75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 22:35 Cal File: CKH23.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.573	3.574	(0.382)	779810	75.0000	84.7816
2 Chloromethane	50	4.007	4.008	(0.429)	661720	75.0000	77.5255
3 Vinyl Chloride	62	4.135	4.136	(0.442)	466460	75.0000	72.1100
4 Bromomethane	94	4.815	4.817	(0.515)	492680	75.0000	81.2009
5 Chloroethane	64	4.943	4.945	(0.529)	338740	75.0000	77.6725
6 Trichlorofluoromethane	101	5.417	5.408	(0.579)	1145444	75.0000	81.5242
7 Acetone	43	5.969	5.970	(0.638)	244563	75.0000	75.3574
8 Freon 113	101	6.117	6.118	(0.654)	617199	75.0000	78.1787
9 1,1-Dichloroethene	96	6.304	6.305	(0.674)	558810	75.0000	78.6133
10 Methylene Chloride	84	6.925	6.927	(0.741)	705283	75.0000	74.3792
11 Carbon Disulfide	76	7.034	7.035	(0.752)	1882485	75.0000	70.3893
12 MTBE	73	7.270	7.272	(0.778)	1778728	75.0000	78.7755
13 trans-1,2-Dichloroethene	96	7.448	7.449	(0.796)	649098	75.0000	77.3216
14 Vinyl Acetate	43	7.980	7.982	(0.853)	1259825	75.0000	79.9839
15 1,1-Dichloroethane	63	8.020	8.021	(0.858)	1185411	75.0000	77.2447
16 2-Butanone	43	8.562	8.563	(0.916)	388737	75.0000	77.3268
17 2,2-Dichloropropane	77	8.917	8.918	(0.954)	916993	75.0000	79.8767
18 cis-1,2-Dichloroethene	96	8.917	8.918	(0.954)	730089	75.0000	76.6708
19 Chloroform	83	9.163	9.165	(0.980)	1329586	75.0000	75.5775
* 20 Pentafluorobenzene	168	9.351	9.352	(1.000)	843515	50.0000	
21 Bromochloromethane	128	9.370	9.372	(1.002)	422444	75.0000	77.4371
$ 22 Dibromofluoromethane	113	9.459	9.460	(1.012)	560178	50.0000	50.7232

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH23.D
Report Date: 18-Nov-2004 11:26

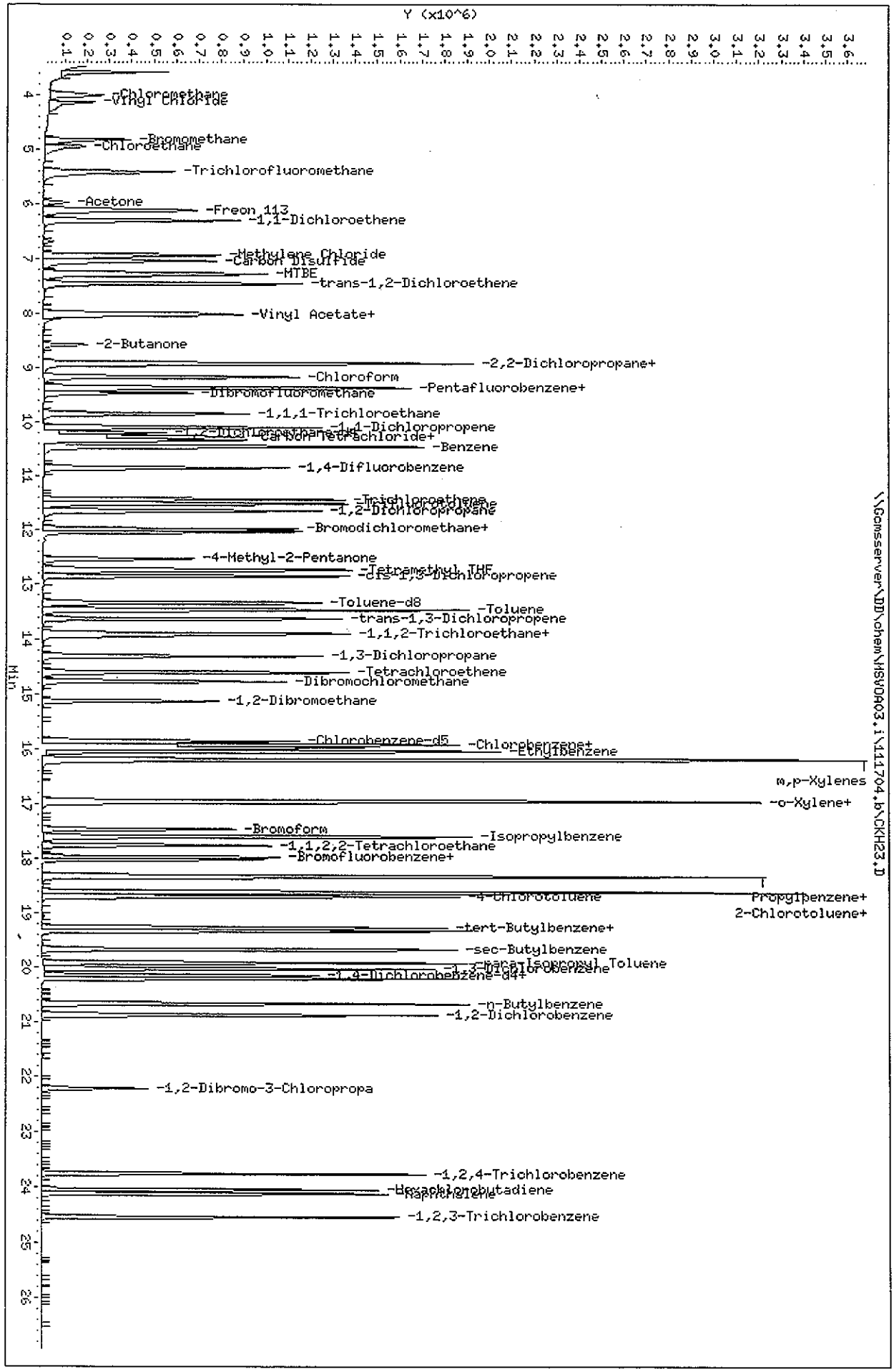
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.843	9.845	(1.053)	992161	75.0000	78.7184
	24 1,1-Dichloropropene	75	10.090	10.091	(0.930)	887363	75.0000	77.6332
$	25 1,2-Dichloroethane-d4	65	10.189	10.190	(0.939)	578571	50.0000	50.1705
	26 Carbon Tetrachloride	117	10.267	10.269	(0.946)	876467	75.0000	77.3712
	27 1,2-Dichloroethane	62	10.327	10.328	(0.952)	1053944	75.0000	74.4836
	28 Benzene	78	10.455	10.456	(0.964)	2232807	75.0000	74.5985
*	29 1,4-Difluorobenzene	114	10.849	10.851	(1.000)	1287586	50.0000	
	30 Trichloroethene	95	11.431	11.432	(1.054)	700998	75.0000	75.4488
$	31 Trifluorotoluene	146	11.510	11.511	(1.061)	913470	75.0000	77.9353
	32 1,2-Dichloropropane	63	11.638	11.639	(1.073)	647216	75.0000	76.0210
	33 Bromodichloromethane	83	11.973	11.975	(1.104)	1056850	75.0000	77.0561
	34 Dibromomethane	93	12.022	12.024	(1.108)	682223	75.0000	74.9858
	35 4-Methyl-2-Pentanone	43	12.525	12.527	(1.154)	807471	75.0000	79.5322
	36 Tetramethyl THF	43	12.732	12.734	(1.174)	1428358	75.0000	78.0722
	37 cis-1,3-Dichloropropene	75	12.841	12.842	(1.184)	1101341	75.0000	77.5875
$	38 Toluene-d8	98	13.344	13.335	(1.230)	1251627	50.0000	50.3723
	39 Toluene	92	13.472	13.463	(1.242)	1297053	75.0000	75.3998
	40 trans-1,3-Dichloropropene	75	13.629	13.631	(1.256)	1034060	75.0000	78.8045
	41 1,1,2-Trichloroethane	83	13.906	13.907	(1.282)	578274	75.0000	74.7922
	42 2-Hexanone	43	13.945	13.946	(0.879)	584671	75.0000	77.2842
	43 1,3-Dichloropropane	76	14.320	14.321	(0.902)	1055308	75.0000	75.5758
	44 Tetrachloroethene	166	14.615	14.617	(0.921)	624716	75.0000	73.1939
	45 Dibromochloromethane	129	14.783	14.784	(0.932)	819245	75.0000	75.7924
	46 1,2-Dibromoethane	107	15.138	15.139	(1.395)	756579	75.0000	76.4683
*	47 Chlorobenzene-d5	117	15.868	15.869	(1.000)	981726	50.0000	
	48 Chlorobenzene	112	15.927	15.928	(1.004)	1477817	75.0000	72.7032
	49 1,1,1,2-Tetrachloroethane	131	15.986	15.987	(1.007)	613930	75.0000	74.9080
	50 Ethylbenzene	91	16.055	16.056	(1.012)	2275811	75.0000	72.7857
	51 m,p-Xylenes	106	16.203	16.204	(1.021)	1607837	150.000	143.9945
	52 o-Xylene	106	16.952	16.963	(1.068)	821593	75.0000	72.5706
	53 Styrene	104	16.982	16.983	(1.070)	1418233	75.0000	73.0721
	54 Bromoform	173	17.475	17.476	(1.101)	608673	75.0000	78.7201
	55 Isopropylbenzene	105	17.613	17.614	(0.874)	2045143	75.0000	75.2289
	56 1,1,2,2-Tetrachloroethane	83	17.770	17.772	(0.882)	852712	75.0000	75.6139
$	57 Bromofluorobenzene	95	17.977	17.979	(0.892)	522358	50.0000	50.1064
	58 1,2,3-Trichloropropane	110	18.027	18.028	(0.894)	207810	75.0000	73.2206
	59 Propylbenzene	91	18.342	18.344	(0.910)	2467596	75.0000	73.2092
	60 Bromobenzene	156	18.342	18.344	(0.910)	630226	75.0000	71.4895
	61 2-Chlorotoluene	91	18.618	18.620	(0.924)	1767597	75.0000	72.2128
	62 1,3,5-Trimethylbenzene	105	18.628	18.630	(0.924)	1694145	75.0000	74.3059
	63 4-Chlorotoluene	91	18.707	18.708	(0.928)	1695688	75.0000	73.5210
	64 tert-Butylbenzene	119	19.279	19.280	(0.956)	1586604	75.0000	75.1623
	65 1,2,4-Trimethylbenzene	105	19.338	19.339	(0.959)	1732229	75.0000	74.7398
	66 sec-Butylbenzene	105	19.683	19.675	(0.977)	2226579	75.0000	76.9282
	67 para-Isopropyl Toluene	119	19.920	19.921	(0.988)	1717457	75.0000	75.2759
	68 1,3-Dichlorobenzene	146	20.038	20.039	(0.994)	1132706	75.0000	72.8357
*	69 1,4-Dichlorobenzene-d4	152	20.156	20.158	(1.000)	495131	50.0000	
	70 1,4-Dichlorobenzene	146	20.206	20.217	(1.002)	1135300	75.0000	71.3793
	71 n-Butylbenzene	91	20.669	20.680	(1.025)	1740480	75.0000	74.9478
	72 1,2-Dichlorobenzene	146	20.876	20.878	(1.036)	1114104	75.0000	73.6081
	73 1,2-Dibromo-3-Chloropropane	75	22.217	22.218	(1.102)	169748	75.0000	80.3725
	74 1,2,4-Trichlorobenzene	180	23.765	23.766	(1.179)	658590	75.0000	72.2523
	75 Hexachlorobutadiene	225	24.051	24.052	(1.193)	383931	75.0000	76.4530
	76 Naphthalene	128	24.120	24.121	(1.197)	1548408	75.0000	78.3080

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH23.D
Report Date: 18-Nov-2004 11:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.544	24.545	(1.218)	667312	75.0000	73.6995

Data File: \\Comsserver\DD\chem\MSVOA03.i\111704.b\CKH23.D
Date : 17-NOV-2004 22:35
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.015/100,04WS2167A,0.03/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH24.D
Report Date: 18-Nov-2004 11:26

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH24.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 17-NOV-2004 23:09 MS Autotune Date: 08-AUG-1996 10:00
Operator : tw Inst ID: MSVOA03.i
Smp Info : ICAL,04SS393,0.02/100,04WS2167A,0.04/100
Misc Info : 100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA03.i\111704.b\I3M826.m
Meth Date : 18-Nov-2004 10:30 target Quant Type: ISTD
Cal Date : 17-NOV-2004 23:09 Cal File: CKH24.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.574	3.574	(0.382)	1027176	100.000	109.4587
2 Chloromethane	50	4.008	4.008	(0.429)	892904	100.000	103.5582
3 Vinyl Chloride	62	4.136	4.136	(0.442)	569252	100.000	89.2111
4 Bromomethane	94	4.816	4.817	(0.515)	669305	100.000	108.3283
5 Chloroethane	64	4.944	4.945	(0.529)	454530	100.000	103.2312
6 Trichlorofluoromethane	101	5.408	5.408	(0.578)	1499859	100.000	105.3566
7 Acetone	43	5.970	5.970	(0.638)	321340	100.000	98.8337
8 Freon 113	101	6.118	6.118	(0.654)	799064	100.000	100.6805
9 1,1-Dichloroethene	96	6.305	6.305	(0.674)	733675	100.000	102.3775
10 Methylene Chloride	84	6.926	6.927	(0.741)	929698	100.000	97.9694
11 Carbon Disulfide	76	7.035	7.035	(0.752)	2503168	100.000	94.1222
12 MTBE	73	7.271	7.272	(0.778)	2323443	100.000	102.1117
13 trans-1,2-Dichloroethene	96	7.449	7.449	(0.797)	848459	100.000	100.5568
14 Vinyl Acetate	43	7.981	7.982	(0.853)	1662690	100.000	104.3591
15 1,1-Dichloroethane	63	8.021	8.021	(0.858)	1518780	100.000	98.7607
16 2-Butanone	43	8.563	8.563	(0.916)	513397	100.000	101.4535
17 2,2-Dichloropropane	77	8.918	8.918	(0.954)	1198991	100.000	103.4152
18 cis-1,2-Dichloroethene	96	8.918	8.918	(0.954)	935789	100.000	98.1640
19 Chloroform	83	9.164	9.165	(0.980)	1721504	100.000	97.8055
* 20 Pentafluorobenzene	168	9.352	9.352	(1.000)	847031	50.0000	
21 Bromochloromethane	128	9.371	9.372	(1.002)	547070	100.000	99.8847
$ 22 Dibromofluoromethane	113	9.460	9.460	(1.012)	561953	50.0000	50.5755

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH24.D
Report Date: 18-Nov-2004 11:26

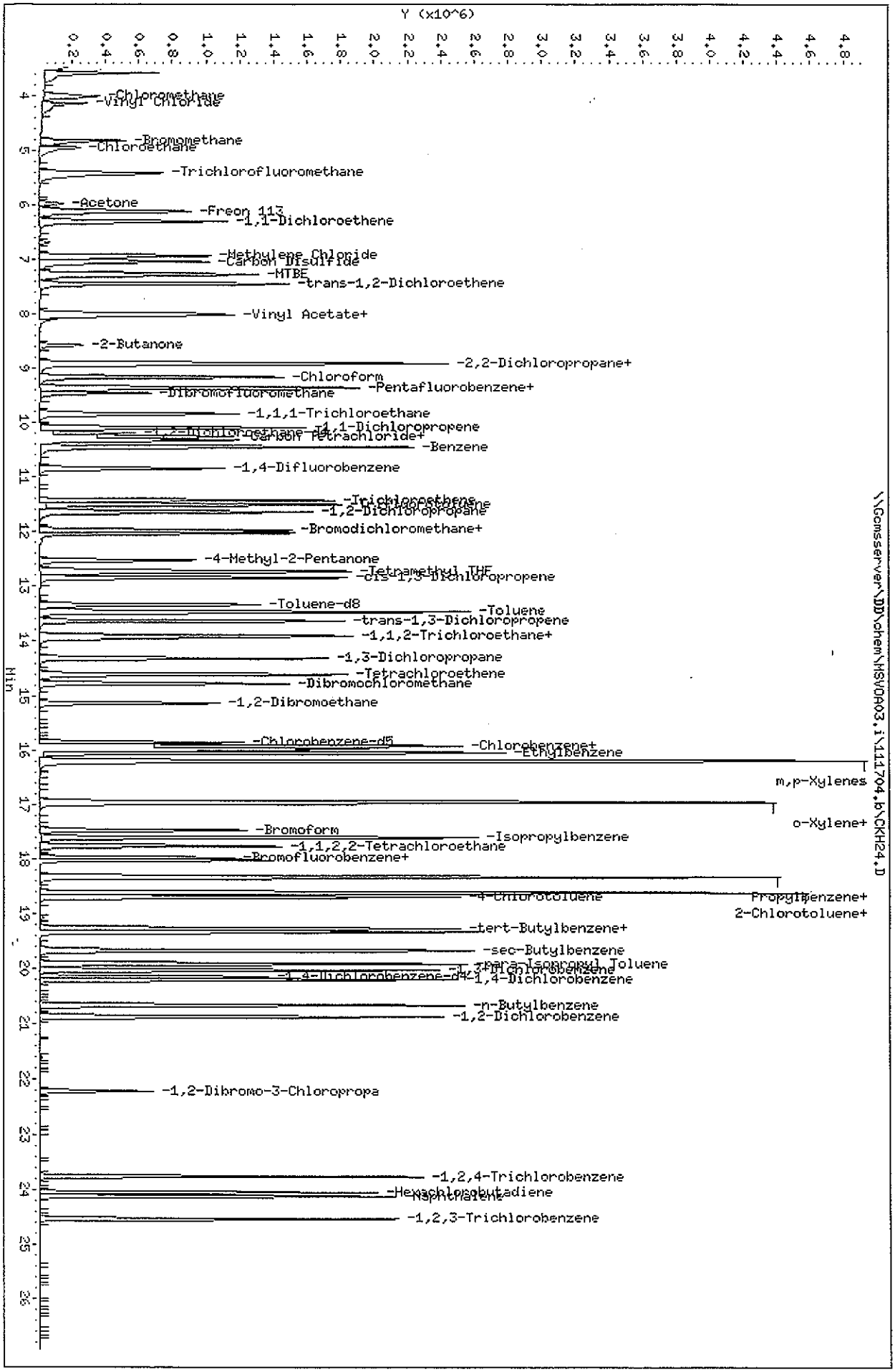
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 1,1,1-Trichloroethane	97	9.844	9.845	(1.053)	1285353	100.000	101.3316
	24 1,1-Dichloropropene	75	10.091	10.091	(0.930)	1131400	100.000	98.8638
$	25 1,2-Dichloroethane-d4	65	10.190	10.190	(0.939)	585273	50.0000	50.5087
	26 Carbon Tetrachloride	117	10.268	10.269	(0.946)	1160291	100.000	101.8023
	27 1,2-Dichloroethane	62	10.328	10.328	(0.952)	1367777	100.000	96.8667
	28 Benzene	78	10.456	10.456	(0.964)	2961936	100.000	98.8428
*	29 1,4-Difluorobenzene	114	10.850	10.851	(1.000)	1291583	50.0000	
	30 Trichloroethene	95	11.432	11.432	(1.054)	915062	100.000	98.4392
$	31 Trifluorotoluene	146	11.511	11.511	(1.061)	1195731	100.000	101.4549
	32 1,2-Dichloropropane	63	11.639	11.639	(1.073)	858147	100.000	100.4151
	33 Bromodichloromethane	83	11.974	11.975	(1.104)	1391610	100.000	100.9839
	34 Dibromomethane	93	12.023	12.024	(1.108)	911062	100.000	99.8528
	35 4-Methyl-2-Pentanone	43	12.526	12.527	(1.154)	1108662	100.000	107.4995
	36 Tetramethyl THF	43	12.733	12.734	(1.174)	1911899	100.000	103.5604
	37 cis-1,3-Dichloropropene	75	12.842	12.842	(1.184)	1487755	100.000	103.8201
$	38 Toluene-d8	98	13.335	13.335	(1.229)	1315796	50.0000	52.3732
	39 Toluene	92	13.463	13.463	(1.241)	1743723	100.000	100.9001
	40 trans-1,3-Dichloropropene	75	13.630	13.631	(1.256)	1398974	100.000	105.3385
	41 1,1,2-Trichloroethane	83	13.906	13.907	(1.282)	788872	100.000	101.4660
	42 2-Hexanone	43	13.946	13.946	(0.879)	810870	100.000	101.8093
	43 1,3-Dichloropropane	76	14.321	14.321	(0.902)	1428389	100.000	97.8134
	44 Tetrachloroethene	166	14.616	14.617	(0.921)	862940	100.000	96.8338
	45 Dibromochloromethane	129	14.784	14.784	(0.932)	1156749	100.000	101.6731
	46 1,2-Dibromoethane	107	15.139	15.139	(1.395)	1050615	100.000	104.9797
*	47 Chlorobenzene-d5	117	15.868	15.869	(1.000)	1030438	50.0000	
	48 Chlorobenzene	112	15.928	15.928	(1.004)	2026423	100.000	95.6659
	49 1,1,1,2-Tetrachloroethane	131	15.987	15.987	(1.007)	845804	100.000	98.5577
	50 Ethylbenzene	91	16.056	16.056	(1.012)	3079851	100.000	94.6769
	51 m,p-Xylenes	106	16.204	16.204	(1.021)	2144651	200.000	185.2412
	52 o-Xylene	106	16.963	16.963	(1.069)	1119610	100.000	95.0036
	53 Styrene	104	16.983	16.983	(1.070)	1929458	100.000	95.4334
	54 Bromoform	173	17.476	17.476	(1.101)	862538	100.000	105.3343
	55 Isopropylbenzene	105	17.614	17.614	(0.874)	2780309	100.000	94.8495
	56 1,1,2,2-Tetrachloroethane	83	17.771	17.772	(0.882)	1191804	100.000	97.5723
$	57 Bromofluorobenzene	95	17.978	17.979	(0.892)	560147	50.0000	49.4915
	58 1,2,3-Trichloropropane	110	18.028	18.028	(0.894)	295937	100.000	96.4489
	59 Propylbenzene	91	18.343	18.344	(0.910)	3391962	100.000	93.5334
	60 Bromobenzene	156	18.343	18.344	(0.910)	868299	100.000	91.8068
	61 2-Chlorotoluene	91	18.619	18.620	(0.924)	2367899	100.000	90.3798
	62 1,3,5-Trimethylbenzene	105	18.629	18.630	(0.924)	2253586	100.000	92.0884
	63 4-Chlorotoluene	91	18.708	18.708	(0.928)	2261751	100.000	91.4574
	64 tert-Butylbenzene	119	19.280	19.280	(0.956)	2191790	100.000	96.0981
	65 1,2,4-Trimethylbenzene	105	19.339	19.339	(0.959)	2350610	100.000	94.1669
	66 sec-Butylbenzene	105	19.674	19.675	(0.976)	3047661	100.000	97.2653
	67 para-Isopropyl Toluene	119	19.921	19.921	(0.988)	2340061	100.000	95.0845
	68 1,3-Dichlorobenzene	146	20.039	20.039	(0.994)	1543592	100.000	92.4228
*	69 1,4-Dichlorobenzene-d4	152	20.157	20.158	(1.000)	538457	50.0000	
	70 1,4-Dichlorobenzene	146	20.216	20.217	(1.003)	1557458	100.000	91.3418
	71 n-Butylbenzene	91	20.680	20.680	(1.026)	2361366	100.000	94.3783
	72 1,2-Dichlorobenzene	146	20.877	20.878	(1.036)	1528707	100.000	93.8290
	73 1,2-Dibromo-3-Chloropropane	75	22.218	22.218	(1.102)	242691	100.000	104.8157
	74 1,2,4-Trichlorobenzene	180	23.766	23.766	(1.179)	897658	100.000	91.7943
	75 Hexachlorobutadiene	225	24.052	24.052	(1.193)	499421	100.000	92.5796
	76 Naphthalene	128	24.121	24.121	(1.197)	2135892	100.000	99.4228

Data File: \\Gcmsserver\DD\chem\MSVOA03.i\111704.b\CKH24.D
Report Date: 18-Nov-2004 11:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,2,3-Trichlorobenzene	180	24.545	24.545	(1.218)	908769	100.000	93.3185

Data File: \\Comsserver\DD\chem\MSVOA03.i\111704.b\CKH24.D
Date : 17-NOV-2004 23:09
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.02/100,04WS2167A,0.04/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA03.i
Operator: tw
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name :
Seqnum : 424464278026 Filename : ckh26 Injected : 18-NOV-2004 00:16
Calnum : 424464278001 Caldate : 17-NOV-2004 Caltype : SOIL
Standards: 04WS1939 (5000X), 04WS1940 (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	52.92520	ug/L	6	40	
Freon 113	50.00000	53.24130	ug/L	6	30	
1,1-Dichloroethene	50.00000	46.04090	ug/L	-8	20	
Methylene Chloride	50.00000	47.94250	ug/L	-4	30	
Carbon Disulfide	50.00000	36.28490	ug/L	-27	30	!v-
MTBE	50.00000	60.52240	ug/L	21	30	!v+
trans-1,2-Dichloroethene	50.00000	47.61460	ug/L	-5	30	
Vinyl Acetate	50.00000	53.59160	ug/L	7	40	
1,1-Dichloroethane	50.00000	47.96130	ug/L	-4	30	
2-Butanone	50.00000	54.18300	ug/L	8	40	
2,2-Dichloropropane	50.00000	47.34980	ug/L	-5	30	
cis-1,2-Dichloroethene	50.00000	49.12160	ug/L	-2	30	
Chloroform	50.00000	47.53630	ug/L	-5	20	
Bromochloromethane	50.00000	48.92910	ug/L	-2	30	
1,1,1-Trichloroethane	50.00000	49.01700	ug/L	-2	30	
1,1-Dichloropropene	50.00000	45.93190	ug/L	-8	30	
Carbon Tetrachloride	50.00000	47.02050	ug/L	-6	30	
1,2-Dichloroethane	50.00000	46.56430	ug/L	-7	30	
Benzene	50.00000	47.18170	ug/L	-6	30	
Trichloroethene	50.00000	47.04410	ug/L	-6	30	
1,2-Dichloropropane	50.00000	47.38860	ug/L	-5	20	
Bromodichloromethane	50.00000	49.39120	ug/L	-1	30	
Dibromomethane	50.00000	47.68320	ug/L	-5	30	
4-Methyl-2-Pentanone	50.00000	55.30580	ug/L	11	40	
Tetramethyl THF	50.00000	50.67490	ug/L	1	30	
cis-1,3-Dichloropropene	50.00000	48.02460	ug/L	-4	30	
Toluene	50.00000	49.28250	ug/L	-1	20	
trans-1,3-Dichloropropene	50.00000	46.49010	ug/L	-7	30	
1,1,2-Trichloroethane	50.00000	49.35900	ug/L	-1	30	
2-Hexanone	50.00000	54.26460	ug/L	9	40	
1,3-Dichloropropane	50.00000	47.57240	ug/L	-5	30	
Tetrachloroethene	50.00000	46.48880	ug/L	-7	30	
Dibromochloromethane	50.00000	47.42260	ug/L	-5	30	
1,2-Dibromoethane	50.00000	49.43070	ug/L	-1	30	
Chlorobenzene	50.00000	46.57700	ug/L	-7	30	
1,1,1,2-Tetrachloroethane	50.00000	47.15290	ug/L	-6	30	
Ethylbenzene	50.00000	47.91450	ug/L	-4	20	
m,p-Xylenes	100.0000	94.93630	ug/L	-5	30	
o-Xylene	50.00000	46.80850	ug/L	-6	30	
Styrene	50.00000	49.49780	ug/L	-1	30	
Bromoform	50.00000	49.72040	ug/L	-1	30	
Isopropylbenzene	50.00000	44.15840	ug/L	-12	30	
1,1,2,2-Tetrachloroethane	50.00000	50.21370	ug/L	0	30	
1,2,3-Trichloropropane	50.00000	49.83080	ug/L	0	30	
Propylbenzene	50.00000	48.27170	ug/L	-3	30	
Bromobenzene	50.00000	47.77290	ug/L	-4	30	
1,3,5-Trimethylbenzene	50.00000	49.30250	ug/L	-1	30	

!=warning +=high bias -=low bias v=ICV
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name :
Seqnum : 424464278026 Filename : ckh26 Injected : 18-NOV-2004 00:16
Calnum : 424464278001 Caldate : 17-NOV-2004 Caltype : SOIL
Standards: 04WS1939 (5000X), 04WS1940 (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
2-Chlorotoluene	50.00000	47.87890	ug/L	-4	30	
4-Chlorotoluene	50.00000	46.64560	ug/L	-7	30	
tert-Butylbenzene	50.00000	47.51220	ug/L	-5	30	
1,2,4-Trimethylbenzene	50.00000	48.87010	ug/L	-2	30	
sec-Butylbenzene	50.00000	49.07770	ug/L	-2	30	
para-Isopropyl Toluene	50.00000	47.83800	ug/L	-4	30	
1,3-Dichlorobenzene	50.00000	46.29320	ug/L	-7	30	
1,4-Dichlorobenzene	50.00000	46.51020	ug/L	-7	30	
n-Butylbenzene	50.00000	49.12690	ug/L	-2	30	
1,2-Dichlorobenzene	50.00000	47.49540	ug/L	-5	30	
1,2-Dibromo-3-Chloropropane	50.00000	52.67560	ug/L	5	30	
1,2,4-Trichlorobenzene	50.00000	48.35690	ug/L	-3	30	
Hexachlorobutadiene	50.00000	47.41920	ug/L	-5	30	
Naphthalene	50.00000	50.66200	ug/L	1	30	
1,2,3-Trichlorobenzene	50.00000	49.19780	ug/L	-2	30	
Dibromofluoromethane	50.00000	51.09220	ug/L	2	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	50.21440	ug/L	0	30	(NOT USED)
Toluene-d8	50.00000	51.37800	ug/L	3	30	(NOT USED)
Bromofluorobenzene	50.00000	49.95420	ug/L	0	30	(NOT USED)

ISTD (ICAL=ckh21)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	812648	764162	-5.97	9.35	9.35	0.00
1,4-Difluorobenzene	1225094	1183222	-3.42	10.85	10.85	0.00
Chlorobenzene-d5	952393	936290	-1.69	15.87	15.86	-0.01
1,4-Dichlorobenzene-d4	485630	473375	-2.52	20.16	20.16	0.00

A 11/18/04

!=warning +=high bias -=low bias v=ICV
Page 2 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA03
Seqnum : 424464278025
Calnum : 424464278001
Standards: 04WS2093 (5000X), 04WS2096 (5000X)

Run Name :
Filename : ckh25
Caldate : 17-NOV-2004

Injected : 17-NOV-2004 23:42
Caltype : SOIL

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	42.80720	ug/L	-14	30	
Chloromethane	50.00000	43.63810	ug/L	-13	30	
Vinyl Chloride	50.00000	47.74360	ug/L	-5	20	
Bromomethane	50.00000	51.06030	ug/L	2	30	
Chloroethane	50.00000	48.96870	ug/L	-2	30	
Trichlorofluoromethane	50.00000	52.96780	ug/L	6	30	
Dibromofluoromethane	50.00000	48.52790	ug/L	-3	30	
1,2-Dichloroethane-d4	50.00000	50.11570	ug/L	0	30	
Toluene-d8	50.00000	51.56900	ug/L	3	30	
Bromofluorobenzene	50.00000	50.92360	ug/L	2	30	

ISTD (ICAL=ckh21)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	812648	863752	6.29	9.35	9.35	0.00
1,4-Difluorobenzene	1225094	1291148	5.39	10.85	10.85	0.00
Chlorobenzene-d5	952393	1013907	6.46	15.87	15.87	0.00
1,4-Dichlorobenzene-d4	485630	500116	2.98	20.16	20.16	0.00

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 40PPB IDF : 1.0
Seqnum : 424472926003 Filename : ckn03 Injected : 23-NOV-2004 10:55
Calnum : 424464278001 Caldate : 17-NOV-2004 Caltype : SOIL
Standards: 04SS408 (12500X), 04WS2167A (6250X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5539	0.7583	40.00000	54.75380	ug/L	37	30	0.0500	c+ ***
Chloromethane	0.5090	0.6079	40.00000	47.77490	ug/L	19	30	0.1000	
Vinyl Chloride	0.3767	0.4291	40.00000	45.56360	ug/L	14	20	0.0500	
Bromomethane	0.3647	0.4199	40.00000	46.04710	ug/L	15	30	0.0500	
Chloroethane	0.2599	0.3188	40.00000	49.06940	ug/L	23	30	0.0500	!c+
Trichlorofluoromethane	0.8403	0.9967	40.00000	47.44060	ug/L	19	30	0.0500	
Acetone	0.1919	0.2863	40.00000	59.66380	ug/L	49	40	0.0500	c+ ***
Freon 113	0.4685	0.5309	40.00000	45.33160	ug/L	13	30	0.0500	
1,1-Dichloroethene	0.4230	0.4682	40.00000	44.27590	ug/L	11	20	0.0500	
Methylene Chloride	0.5602	0.5757	40.00000	41.10980	ug/L	3	30	0.0500	
Carbon Disulfide	1.5699	1.5838	40.00000	40.35490	ug/L	1	30	0.0500	
MTBE	1.3432	1.4264	40.00000	42.48020	ug/L	6	30	0.0500	
trans-1,2-Dichloroethene	0.4981	0.5524	40.00000	44.36210	ug/L	11	30	0.0500	
Vinyl Acetate	0.9405	1.0077	40.00000	42.86040	ug/L	7	40	0.0500	
1,1-Dichloroethane	0.9078	0.9689	40.00000	42.69250	ug/L	7	30	0.1000	
2-Butanone	0.2987	0.3725	40.00000	49.87650	ug/L	25	40	0.0500	
2,2-Dichloropropane	0.6844	0.8037	40.00000	46.97220	ug/L	17	30	0.0500	
cis-1,2-Dichloroethene	0.5627	0.6084	40.00000	43.24360	ug/L	8	30	0.0500	
Chloroform	1.0390	1.0903	40.00000	41.97470	ug/L	5	20	0.0500	
Bromochloromethane	0.3233	0.3366	40.00000	41.64550	ug/L	4	30	0.0500	
1,1,1-Trichloroethane	0.7488	0.8173	40.00000	43.65940	ug/L	9	30	0.0500	
1,1-Dichloropropene	0.4430	0.4693	40.00000	42.37430	ug/L	6	30	0.0500	
Carbon Tetrachloride	0.4412	0.4498	40.00000	40.77960	ug/L	2	30	0.0500	
1,2-Dichloroethane	0.5466	0.5373	40.00000	39.32080	ug/L	-2	30	0.0500	
Benzene	1.1601	1.1706	40.00000	40.36320	ug/L	1	30	0.0500	
Trichloroethene	0.3599	0.3653	40.00000	40.60350	ug/L	2	30	0.0500	
1,2-Dichloropropane	0.3308	0.3293	40.00000	39.81150	ug/L	0	20	0.0500	
Bromodichloromethane	0.5335	0.5228	40.00000	39.20330	ug/L	-2	30	0.0500	
Dibromomethane	0.3532	0.3460	40.00000	39.18060	ug/L	-2	30	0.0500	
4-Methyl-2-Pentanone	0.3992	0.4249	40.00000	42.57310	ug/L	6	40	0.0500	
Tetramethyl THF	0.7147	0.7160	40.00000	40.07440	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.5548	0.5700	40.00000	41.09670	ug/L	3	30	0.0500	
Toluene	0.6690	0.6673	40.00000	39.89950	ug/L	0	20	0.0500	
trans-1,3-Dichloropropene	0.5141	0.5360	40.00000	41.70280	ug/L	4	30	0.0500	
1,1,2-Trichloroethane	0.3010	0.2915	40.00000	38.73850	ug/L	-3	30	0.0500	
2-Hexanone	0.3865	0.3920	40.00000	40.57170	ug/L	1	40	0.0500	
1,3-Dichloropropane	0.7086	0.6800	40.00000	38.38820	ug/L	-4	30	0.0500	
Tetrachloroethene	0.4324	0.4155	40.00000	38.43650	ug/L	-4	30	0.0500	
Dibromochloromethane	0.5521	0.5024	40.00000	36.39910	ug/L	-9	30	0.0500	
1,2-Dibromoethane	0.3874	0.3836	40.00000	39.60240	ug/L	-1	30	0.0500	
Chlorobenzene	1.0278	0.9534	40.00000	37.10540	ug/L	-7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4164	0.3798	40.00000	36.48000	ug/L	-9	30	0.0500	
Ethylbenzene	1.5785	1.5001	40.00000	38.01360	ug/L	-5	20	0.0500	
m,p-Xylenes	0.5618	0.5422	80.00000	77.20570	ug/L	-3	30	0.0500	
o-Xylene	0.5718	0.5387	40.00000	37.67980	ug/L	-6	30	0.0500	
Styrene	0.9810	0.9308	40.00000	37.95300	ug/L	-5	30	0.0500	

!=warning +=high bias c=CCV
Page 1 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 40PPB IDF : 1.0
Seqnum : 424472926003 Filename : ckn03 Injected : 23-NOV-2004 10:55
Calnum : 424464278001 Caldate : 17-NOV-2004 Caltype : SOIL
Standards: 04SS408 (12500X), 04WS2167A (6250X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.3973	0.3701	40.00000	37.26270	ug/L	-7	30	0.1000	
Isopropylbenzene	2.7219	2.5048	40.00000	36.80940	ug/L	-8	30	0.0500	
1,1,2,2-Tetrachloroethane	1.1342	1.0709	40.00000	37.76590	ug/L	-6	30	0.3000	
1,2,3-Trichloropropane	0.2849	0.2784	40.00000	39.08940	ug/L	-2	30	0.0500	
Propylbenzene	3.3675	3.2132	40.00000	38.16800	ug/L	-5	30	0.0500	
Bromobenzene	0.8782	0.7758	40.00000	35.33470	ug/L	-12	30	0.0500	
1,3,5-Trimethylbenzene	2.2724	2.1766	40.00000	38.31260	ug/L	-4	30	0.0500	
2-Chlorotoluene	2.4328	2.2686	40.00000	37.29970	ug/L	-7	30	0.0500	
4-Chlorotoluene	2.2964	2.1597	40.00000	37.61900	ug/L	-6	30	0.0500	
tert-Butylbenzene	2.1179	1.9551	40.00000	36.92570	ug/L	-8	30	0.0500	
1,2,4-Trimethylbenzene	2.3179	2.1778	40.00000	37.58130	ug/L	-6	30	0.0500	
sec-Butylbenzene	2.9096	2.8309	40.00000	38.91860	ug/L	-3	30	0.0500	
para-Isopropyl Toluene	2.2853	2.2250	40.00000	38.94600	ug/L	-3	30	0.0500	
1,3-Dichlorobenzene	1.5509	1.4313	40.00000	36.91740	ug/L	-8	30	0.0500	
1,4-Dichlorobenzene	1.5833	1.4529	40.00000	36.70520	ug/L	-8	30	0.0500	
n-Butylbenzene	2.3233	2.3091	40.00000	39.75520	ug/L	-1	30	0.0500	
1,2-Dichlorobenzene	1.5129	1.3867	40.00000	36.66380	ug/L	-8	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2150	0.2169	40.00000	40.34790	ug/L	1	30	0.0500	
1,2,4-Trichlorobenzene	0.9081	0.9200	40.00000	40.52750	ug/L	1	30	0.0500	
Hexachlorobutadiene	0.5009	0.4800	40.00000	38.33190	ug/L	-4	30	0.0500	
Naphthalene	1.9949	1.9603	40.00000	39.30770	ug/L	-2	30	0.0500	
1,2,3-Trichlorobenzene	0.9043	0.8526	40.00000	37.71520	ug/L	-6	30	0.0500	
Dibromofluoromethane	0.6559	0.7117	50.00000	54.25370	ug/L	9	30	0.0500	
1,2-Dichloroethane-d4	0.4486	0.4832	50.00000	53.85890	ug/L	8	30	0.0500	
Trifluorotoluene	0.4563	0.4761	40.00000	41.73800	ug/L	4	30	0.0500	
Toluene-d8	0.9726	1.0044	50.00000	51.63600	ug/L	3	30	0.0500	
Bromofluorobenzene	1.0510	1.0342	50.00000	49.20330	ug/L	-2	30	0.0500	

ISTD (ICAL=ckh21)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	812648	733113	-9.79	9.35	9.37	0.02
1,4-Difluorobenzene	1225094	1169473	-4.54	10.85	10.86	0.01
Chlorobenzene-d5	952393	939268	-1.38	15.87	15.88	0.01
1,4-Dichlorobenzene-d4	485630	504052	3.79	20.16	20.17	0.01

!=warning +=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 40PPB IDF : 1.0
Seqnum : 424472926012 Filename : ckn12 Injected : 23-NOV-2004 15:54
Calnum : 424464278001 Caldate : 17-NOV-2004 Caltype : SOIL
Standards: 04SS408 (12500X), 04WS2167A (6250X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.5539	0.7764	40.00000	56.06370	ug/L	40	30	0.0500	c+ ***
Chloromethane	0.5090	0.6443	40.00000	50.63800	ug/L	27	30	0.1000	!c+
Vinyl Chloride	0.3767	0.4524	40.00000	48.04280	ug/L	20	20	0.0500	
Bromomethane	0.3647	0.4749	40.00000	52.08200	ug/L	30	30	0.0500	!c+
Chloroethane	0.2599	0.3432	40.00000	52.82450	ug/L	32	30	0.0500	c+ ***
Trichlorofluoromethane	0.8403	1.0754	40.00000	51.18740	ug/L	28	30	0.0500	!c+
Acetone	0.1919	0.2773	40.00000	57.79620	ug/L	44	40	0.0500	c+ ***
Freon 113	0.4685	0.5400	40.00000	46.10330	ug/L	15	30	0.0500	
1,1-Dichloroethene	0.4230	0.4922	40.00000	46.54340	ug/L	16	20	0.0500	
Methylene Chloride	0.5602	0.6170	40.00000	44.05820	ug/L	10	30	0.0500	
Carbon Disulfide	1.5699	1.6777	40.00000	42.74820	ug/L	7	30	0.0500	
MTBE	1.3432	1.5518	40.00000	46.21340	ug/L	16	30	0.0500	
trans-1,2-Dichloroethene	0.4981	0.5648	40.00000	45.36080	ug/L	13	30	0.0500	
Vinyl Acetate	0.9405	1.1491	40.00000	48.87460	ug/L	22	40	0.0500	
1,1-Dichloroethane	0.9078	1.0133	40.00000	44.65030	ug/L	12	30	0.1000	
2-Butanone	0.2987	0.4087	40.00000	54.72120	ug/L	37	40	0.0500	!c+
2,2-Dichloropropane	0.6844	0.8424	40.00000	49.23390	ug/L	23	30	0.0500	!c+
cis-1,2-Dichloroethene	0.5627	0.6240	40.00000	44.35550	ug/L	11	30	0.0500	
Chloroform	1.0390	1.1325	40.00000	43.60110	ug/L	9	20	0.0500	
Bromochloromethane	0.3233	0.3610	40.00000	44.65830	ug/L	12	30	0.0500	
1,1,1-Trichloroethane	0.7488	0.8592	40.00000	45.90080	ug/L	15	30	0.0500	
1,1-Dichloropropene	0.4430	0.4915	40.00000	44.37920	ug/L	11	30	0.0500	
Carbon Tetrachloride	0.4412	0.4569	40.00000	41.41780	ug/L	4	30	0.0500	
1,2-Dichloroethane	0.5466	0.5580	40.00000	40.83590	ug/L	2	30	0.0500	
Benzene	1.1601	1.2056	40.00000	41.57040	ug/L	4	30	0.0500	
Trichloroethene	0.3599	0.3857	40.00000	42.86770	ug/L	7	30	0.0500	
1,2-Dichloropropane	0.3308	0.3538	40.00000	42.78130	ug/L	7	20	0.0500	
Bromodichloromethane	0.5335	0.5434	40.00000	40.74490	ug/L	2	30	0.0500	
Dibromomethane	0.3532	0.3567	40.00000	40.39030	ug/L	1	30	0.0500	
4-Methyl-2-Pentanone	0.3992	0.4810	40.00000	48.19370	ug/L	20	40	0.0500	
Tetramethyl THF	0.7147	0.8024	40.00000	44.91100	ug/L	12	30	0.0500	
cis-1,3-Dichloropropene	0.5548	0.5911	40.00000	42.62330	ug/L	7	30	0.0500	
Toluene	0.6690	0.7480	40.00000	44.72220	ug/L	12	20	0.0500	
trans-1,3-Dichloropropene	0.5141	0.5639	40.00000	43.86990	ug/L	10	30	0.0500	
1,1,2-Trichloroethane	0.3010	0.3131	40.00000	41.60670	ug/L	4	30	0.0500	
2-Hexanone	0.3865	0.4526	40.00000	46.84790	ug/L	17	40	0.0500	
1,3-Dichloropropane	0.7086	0.7176	40.00000	40.50830	ug/L	1	30	0.0500	
Tetrachloroethene	0.4324	0.4538	40.00000	41.97730	ug/L	5	30	0.0500	
Dibromochloromethane	0.5521	0.5127	40.00000	37.14790	ug/L	-7	30	0.0500	
1,2-Dibromoethane	0.3874	0.4111	40.00000	42.44640	ug/L	6	30	0.0500	
Chlorobenzene	1.0278	1.0396	40.00000	40.45930	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.4164	0.4133	40.00000	39.70280	ug/L	-1	30	0.0500	
Ethylbenzene	1.5785	1.6345	40.00000	41.42080	ug/L	4	20	0.0500	
m,p-Xylenes	0.5618	0.5810	80.00000	82.73990	ug/L	3	30	0.0500	
o-Xylene	0.5718	0.5770	40.00000	40.36400	ug/L	1	30	0.0500	
Styrene	0.9810	1.0024	40.00000	40.87010	ug/L	2	30	0.0500	

!=warning +=high bias c=CCV

12/23/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA03 Run Name : 40PPB IDF : 1.0
Seqnum : 424472926012 Filename : ckn12 Injected : 23-NOV-2004 15:54
Calnum : 424464278001 Caldate : 17-NOV-2004 Caltype : SOIL
Standards: 04SS408 (12500X), 04WS2167A (6250X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.3973	0.4063	40.00000	40.90680	ug/L	2	30	0.1000	
Isopropylbenzene	2.7219	2.9129	40.00000	42.80660	ug/L	7	30	0.0500	
1,1,2,2-Tetrachloroethane	1.1342	1.2272	40.00000	43.27770	ug/L	8	30	0.3000	
1,2,3-Trichloropropane	0.2849	0.3139	40.00000	44.06840	ug/L	10	30	0.0500	
Propylbenzene	3.3675	3.6606	40.00000	43.48230	ug/L	9	30	0.0500	
Bromobenzene	0.8782	0.8603	40.00000	39.18490	ug/L	-2	30	0.0500	
1,3,5-Trimethylbenzene	2.2724	2.5038	40.00000	44.07260	ug/L	10	30	0.0500	
2-Chlorotoluene	2.4328	2.5460	40.00000	41.86030	ug/L	5	30	0.0500	
4-Chlorotoluene	2.2964	2.3902	40.00000	41.63330	ug/L	4	30	0.0500	
tert-Butylbenzene	2.1179	2.2265	40.00000	42.05200	ug/L	5	30	0.0500	
1,2,4-Trimethylbenzene	2.3179	2.5638	40.00000	44.24360	ug/L	11	30	0.0500	
sec-Butylbenzene	2.9096	3.2517	40.00000	44.70350	ug/L	12	30	0.0500	
para-Isopropyl Toluene	2.2853	2.5573	40.00000	44.76080	ug/L	12	30	0.0500	
1,3-Dichlorobenzene	1.5509	1.5598	40.00000	40.23180	ug/L	1	30	0.0500	
1,4-Dichlorobenzene	1.5833	1.5806	40.00000	39.93180	ug/L	0	30	0.0500	
n-Butylbenzene	2.3233	2.7204	40.00000	46.83680	ug/L	17	30	0.0500	
1,2-Dichlorobenzene	1.5129	1.5146	40.00000	40.04470	ug/L	0	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2150	0.2385	40.00000	44.36430	ug/L	11	30	0.0500	
1,2,4-Trichlorobenzene	0.9081	1.0037	40.00000	44.21110	ug/L	11	30	0.0500	
Hexachlorobutadiene	0.5009	0.5231	40.00000	41.77400	ug/L	4	30	0.0500	
Naphthalene	1.9949	2.2771	40.00000	45.65990	ug/L	14	30	0.0500	
1,2,3-Trichlorobenzene	0.9043	0.9460	40.00000	41.84400	ug/L	5	30	0.0500	
Dibromofluoromethane	0.6559	0.6990	50.00000	53.28640	ug/L	7	30	0.0500	
1,2-Dichloroethane-d4	0.4486	0.4778	50.00000	53.25660	ug/L	7	30	0.0500	
Trifluorotoluene	0.4563	0.5145	40.00000	45.10710	ug/L	13	30	0.0500	
Toluene-d8	0.9726	1.0123	50.00000	52.03980	ug/L	4	30	0.0500	
Bromofluorobenzene	1.0510	1.0668	50.00000	50.75370	ug/L	2	30	0.0500	

ISTD (ICAL=ckh21)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	812648	721487	-11.22	9.35	9.38	0.03
1,4-Difluorobenzene	1225094	1175480	-4.05	10.85	10.88	0.03
Chlorobenzene-d5	952393	948432	-0.42	15.87	15.89	0.02
1,4-Dichlorobenzene-d4	485630	476343	-1.91	20.16	20.17	0.01

11/24

11/23/04

!=warning +=high bias c=CCV

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 23-NOV-2004
Sequence: 424472926 (ckn)
Instrument ID: MSVOA03

ICAL Filename: ckh21
Date Analyzed: 17-NOV-2004
Time Analyzed: 21:28

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	812648	9.35	1225094	10.85	952393	15.87	485630	20.16
LOWER LIMIT	406324	8.85	612547	10.35	476197	15.37	242815	19.66
UPPER LIMIT	1625296	9.85	2450188	11.35	1904786	16.37	971260	20.66

TYPE	SAMPLE	#								
CCV/LCS	QC273597	003	733113	9.37	1169473	10.86	939268	15.88	504052	20.17
CCV/BS	QC273598	004	795955	9.38	1249053	10.87	1013791	15.88	507962	20.17
BSD	QC273599	005	793867	9.38	1248961	10.87	1019670	15.89	499632	20.18
PREPBLK	QC273610	006	880636	9.37	1384630	10.86	1061313	15.89	488653	20.18
BLANK	QC273601	007	782676	9.38	1218506	10.87	949041	15.89	461216	20.18
SAMPLE	176142-005	008	747395	9.38	1184314	10.87	949986	15.89	478974	20.18
SAMPLE	176177-004	009	759067	9.38	1199769	10.87	965851	15.89	476256	20.18
SAMPLE	176177-005	010	757666	9.38	1190804	10.87	966901	15.88	470027	20.17
CCV	40PPB	012	721487	9.38	1175480	10.88	948432	15.89	476343	20.17
BLANK	QC273600	014	791886	9.38	1286007	10.87	991498	15.89	494482	20.18
SAMPLE	176142-004	015	732868	9.38	1184679	10.88	959828	15.88	477221	20.17
SAMPLE	176193-001	016	669895	9.38	1060412	10.87	889541	15.88	449722	20.17
SAMPLE	176193-002	017	702376	9.37	1162359	10.86	963444	15.88	455942	20.17
SAMPLE	176193-003	018	692451	9.37	1125339	10.87	894026	15.88	452292	20.17
SAMPLE	176193-004	019	654518	9.38	1114448	10.86	884368	15.88	412885	20.17
SAMPLE	176194-001	020	644756	9.37	1090870	10.87	863942	15.89	410014	20.18
MSS	176210-007	021	605546	9.38	1027376	10.86	838418	15.88	415649	20.17
SAMPLE	176167-001	022	567377	9.37	979126	10.87	799641	15.88	403610	20.17
SAMPLE	176167-002	023	594688	9.37	1045210	10.86	851779	15.88	421667	20.17
SAMPLE	176167-003	024	556872	9.38	988445	10.87	755981	15.88	389103	20.17
SAMPLE	176167-004	025	83975*	9.38	145304*	10.87	109089*	15.88	55781*	20.17
SAMPLE	176167-005	026	571265	9.37	995903	10.87	809593	15.88	398970	20.17
SAMPLE	176167-006	027	565117	9.37	961706	10.87	792776	15.88	403728	20.17
SAMPLE	176167-007	028	585368	9.37	1013678	10.87	839492	15.89	411460	20.18
SAMPLE	176167-008	029	467433	9.38	853667	10.86	739365	15.88	374185	20.17
MS	QC273695	030	517949	9.37	986325	10.87	795549	15.88	404990	20.17
MSD	QC273696	031	489777	9.37	954669	10.86	784071	15.88	408394	20.17
SAMPLE	176082-001	036	484834	9.37	907854	10.86	762601	15.88	370302	20.17

* = Outside QC Limits

MSVOA03 8260S. ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 17-NOV-2004

Sequence: 424464278 Instrument: MSVOA03 HP GCMS VOA 03
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	ckh01	X	IB			17-NOV-2004 09:58	1.0					1	
002	ckh02	TUN	BFB			17-NOV-2004 10:34	1.0					2	
003	ckh03	CCV	40PPB			17-NOV-2004 10:51	1.0	69	5000			3 4 1 cc+	68:XYLMP=292.305
004	ckh04	TUN	BFB			17-NOV-2004 12:02	1.0					2	
005	ckh05	TUN	BFB			17-NOV-2004 12:17	1.0					2	
006	ckh06	TUN	BFB			17-NOV-2004 12:40	1.0					2	
007	ckh07	TUN	BFB			17-NOV-2004 13:00	1.0					2	
008	ckh08	X	IB			17-NOV-2004 13:17	1.0					1	
009	ckh09	X	IB			17-NOV-2004 13:51	1.0					1	
010	ckh10	X	IB			17-NOV-2004 15:04	1.0					1	
011	ckh11	TUN	BFB			17-NOV-2004 16:25	1.0					2	
012	ckh12	X	IB			17-NOV-2004 16:42	1.0					1	
013	ckh13	X	IB			17-NOV-2004 17:16	1.0					1	
014	ckh14	TUN	BFB			17-NOV-2004 17:47	1.0					2	
015	ckh15	X	IB			17-NOV-2004 18:04	1.0					1	
016	ckh16	X	IB			17-NOV-2004 18:38	1.0					1	
017	ckh17	X	CALIB IB			17-NOV-2004 19:12	1.0					1	
018	ckh18	ICAL	5PPB			17-NOV-2004 19:46	1.0					3 5 1	
019	ckh19	ICAL	10PPB			17-NOV-2004 20:21	1.0					3 5 1	
020	ckh20	ICAL	20PPB			17-NOV-2004 20:55	1.0					3 5 1	
021	ckh21	ICAL	50PPB			17-NOV-2004 21:28	1.0					3 5 1	
022	ckh22	ICAL	60PPB			17-NOV-2004 22:02	1.0					3 5 1	
023	ckh23	ICAL	75PPB			17-NOV-2004 22:35	1.0					3 5 1	
024	ckh24	ICAL	100PPB			17-NOV-2004 23:09	1.0					3 5 1	
025	ckh25	ICV				17-NOV-2004 23:42	1.0		5000			6 1	
026	ckh26	ICV				18-NOV-2004 00:16	1.0		5000			7 8 1	
027	ckh27	X	IB			18-NOV-2004 00:50	1.0					1	
028	ckh28	X	IB			18-NOV-2004 01:24	1.0					1	
029	ckh29	X	IB			18-NOV-2004 01:58	1.0					1	

ICAL - 9000, ICV - 6000 + A.C.E. limit - CS_2 ↓, MTBE ↑

Stds used: 1=04WS2096 2=04WS1238 3=04SS393 4=04WS1756 5=04WS2167A 6=04WS2093 7=04WS1939 8=04WS1940
Flags used: +=high bias cc=CCV CCC failure

Analyst: [signature] Date: 11/18/04

Page 1 of 1

11/18/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

7

Sequence: 424472926 Instrument: MSVOA03 HP GCMS VOA 03 Begun: 23-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	ckn01	X	IB			23-NOV-2004 10:06	1.0						1	
002	ckn02	TUN	BFB			23-NOV-2004 10:38	1.0						2	
003	ckn03	CCV/LCS	QC273597	96818	Soil	23-NOV-2004 10:55	1.0	2	1	5000			3 4 1	
004	ckn04	CCV/BS	QC273598	96818	Soil	23-NOV-2004 11:34	1.0			5000			5 1	
005	ckn05	BSD	QC273599	96818	Soil	23-NOV-2004 12:09	1.0			5000			6 1	
006	ckn06	PREPBLK	QC273610 M	96818	Soil	23-NOV-2004 12:43	25.0			5000			7 1 MeOH PB 11/23/04	
007	ckn07	BLANK	QC273601	96818	Soil	23-NOV-2004 13:17	1.0		1	5000			1	
008	ckn08	SAMPLE	176142-005	96818	Soil	23-NOV-2004 13:54	0.9091		1	5000	A		1	
009	ckn09	SAMPLE	176177-004	96818	Soil	23-NOV-2004 14:28	1.0		1	5000			1	3:TMB124=253.360
010	ckn10	SAMPLE	176177-005	96818	Soil	23-NOV-2004 15:02	5.0		1	5000			1	2:TMB124=141.203
011	ckn11	TUN	BFB			23-NOV-2004 15:37	1.0						2	
012	ckn12	CCV	40PPB			23-NOV-2004 15:54	1.0	3		5000			3 4 1	
013	ckn13	CCV	GASOX50PPB			23-NOV-2004 16:27	1.0			5000			5 1	
014	ckn14	BLANK	QC273600	96818	Soil	23-NOV-2004 17:02	1.0		1	5000			1	
015	ckn15	SAMPLE	176142-004	96818	Soil	23-NOV-2004 17:36	0.9091		1	5000	A		1	
016	ckn16	SAMPLE	176193-001	96818	Soil	23-NOV-2004 18:10	0.8929		1	5000			1	
017	ckn17	SAMPLE	176193-002	96818	Soil	23-NOV-2004 18:44	0.9259		1	5000			1	
018	ckn18	SAMPLE	176193-003	96818	Soil	23-NOV-2004 19:18	0.8621	1	1	5000			1 PAIX acc	
019	ckn19	SAMPLE	176193-004	96818	Soil	23-NOV-2004 19:53	0.8929		1	5000			1	
020	ckn20	SAMPLE	176194-001	96818	Soil	23-NOV-2004 20:27	0.9804		1	5000			1	
021	ckn21	MSS	176210-007	96818	Soil	23-NOV-2004 21:01	0.9091			5000			1 DBFM↑ - ND	
022	ckn22	SAMPLE	176167-001	96818	Soil	23-NOV-2004 21:35	0.9259		1	5000			1	
023	ckn23	SAMPLE	176167-002	96818	Soil	23-NOV-2004 22:09	0.8772		1	5000			1	
024	ckn24	SAMPLE	176167-003	96818	Soil	23-NOV-2004 22:43	0.9091		2	5000			1 PAIX DBFM↑	
025	ckn25	SAMPLE	176167-004	96818	Soil	23-NOV-2004 23:17	0.9615	2	1	5000			1 PAIX-IS↓	2:MTLNCL=264.136
026	ckn26	SAMPLE	176167-005	96818	Soil	23-NOV-2004 23:51	0.8621		1	5000			1	
027	ckn27	SAMPLE	176167-006	96818	Soil	24-NOV-2004 00:25	0.9259	1	1	5000			1 PAIX acc	
028	ckn28	SAMPLE	176167-007	96818	Soil	24-NOV-2004 00:59	0.9091		1	5000			1	
029	ckn29	SAMPLE	176167-008	96818	Soil	24-NOV-2004 01:33	0.9091		2	5000			1	
030	ckn30	MS	QC273695	96818	Soil	24-NOV-2004 02:07	0.9091	3	3	5000			8 9 10 1 *	1:ACE=120.509

8260-ICAL - GOOD, ICV - GOOD + A.C.E. limit - CS2↑, MTBE↑ ; GASOX ICAL - ICAL, ICV - GOOD, CCV - CKN07 - GOOD

Stds used: 1=04WS2096 2=04WS1238 3=04SS408 4=04WS2167A 5=04WS1883A 6=04WS1883 7=04WS2208 8=04WS1940 9=04WS1939 10=04WS2093

Flags used: <<t=out of clock

CCV - CKN03 - Acc↑ ~~+A.C.E.~~ F12↑, +A.C.E. - CLEa↑
CKN12 - F12↑, ClEa↑, Acc↑, +A.C.E. - ClMe↑, BrMe↑, TCFM↑, 2BuT↑, 22DCPP↑

CKN13 - GOOD + ACE - TBA↑

* DBFM↑, 11DCE↑, MTBE↑ in MS/MSD - RPD good. : conf ME.

Analyst: [signature] Date: 11/24/04

Page 1 of 2

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 424472926 Instrument: MSVOA03 HP GCMS VOA 03 Begun: 23-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	ckn31	MSD	QC273696	96818	Soil	24-NOV-2004 02:41	0.9091	3	3	5000	A	-	8 9 10 1	
032	ckn32	SAMPLE	176177-003 M	96818	Soil	24-NOV-2004 03:15	100.0				A	-	7 1 · PA 100X bad inject	
033	ckn33	X	IB			24-NOV-2004 03:49	1.0						1	
034	ckn34	X	IB			24-NOV-2004 04:23	1.0						1	
035	ckn35	X	IB			24-NOV-2004 04:57	1.0						1	
036	ckn36	SAMPLE	176082-001	96818	Soil	24-NOV-2004 05:30	1.0	72	2	5000	A		1 <<t FAR BLK - DB ISST · ND	

169

Stds used: 1=04WS2096 2=04WS1238 3=04SS408 4=04WS2167A 5=04WS1883A 6=04WS1883 7=04WS2208 8=04WS1940 9=04WS1939 10=04WS2093
Flags used: <<t=out of clock

Analyst: Date: 11/24/04
Page 2 of 2

11/24

REPORTING SUMMARY FOR 176210 8260 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
|---|---|---

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/23/01

Prepped by:

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	176177-3		A	X	2	Screen 100X GASP		
2	-4	5.0				AR 1X		
3	-5	1.0				AR 5X		
4	176178-1	5.4						
5	2	5.7						
6	3	5.5						
7	4	5.2						
8	5	5.8						
9	6	5.4						
10	7	5.5						
11	8	5.5						
12	176192-4	5.5						
13	5	5.5						
14	176193-1	5.0				Comp 4 cores		
15	2	5.4						
16	3	5.8						
17	4	5.6						
18	176210-7	5.5						
	176194-1	5.1				comp 4 cores		
20								
21								
22								
23								
24								
25	P.B. MeOH 11/23				3	25x		
26	176082-1		A		1	Spike		

20

19

15

23

24

21

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
13								
14								
15								
16								
17								

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05	MSBNA06
Phenol	ug/Kg	10/21/04 51	10/20/04 66	04/16/03 28	10/21/04 50	10/19/04 70	11/02/04 37
2-Chlorophenol	ug/Kg	10/21/04 52	10/20/04 61	04/16/03 22	10/21/04 39	10/19/04 75	11/02/04 69
1,4-Dichlorobenzene	ug/Kg	10/21/04 16	10/20/04 40	04/16/03 26	10/21/04 29	10/19/04 34	11/02/04 36
N-Nitroso-di-n-propylamine	ug/Kg	10/21/04 56	10/20/04 38	04/16/03 20	10/21/04 31	10/19/04 37	11/02/04 33
1,2,4-Trichlorobenzene	ug/Kg	10/21/04 10	10/20/04 36	04/16/03 22	10/21/04 18	10/19/04 30	11/02/04 35
4-Chloro-3-methylphenol	ug/Kg	10/21/04 90	10/20/04 64	04/16/03 35	10/21/04 40	10/19/04 68	11/02/04 71
Acenaphthene	ug/Kg	10/21/04 17	10/20/04 26	04/25/03 14	10/21/04 20	10/19/04 34	11/02/04 31
4-Nitrophenol	ug/Kg	10/21/04 130	10/20/04 47	04/16/03 36	10/21/04 31	10/19/04 66	11/02/04 66
2,4-Dinitrotoluene	ug/Kg	10/21/04 38	10/20/04 26	04/16/03 21	10/21/04 29	10/19/04 34	11/02/04 30
Pentachlorophenol	ug/Kg	10/21/04 100	10/20/04 56	04/16/03 47	10/21/04 87	10/19/04 71	11/02/04 130
Pyrene	ug/Kg	10/21/04 33	10/20/04 30	04/25/03 11	10/21/04 21	10/19/04 34	11/02/04 34
N-Nitrosodimethylamine	ug/Kg	10/21/04 29	10/20/04 25	04/16/03 22	10/21/04 38	10/19/04 36	11/02/04 30
Pyridine	ug/Kg	10/21/04 34	10/20/04 28	04/16/03 21	10/21/04 47	10/19/04 24	11/02/04 45
Aniline	ug/Kg	04/18/03 36	04/16/03 25	04/16/03 35	04/16/03 34	04/18/03 35	
bis(2-Chloroethyl)ether	ug/Kg	10/21/04 20	10/20/04 45	04/16/03 24	10/21/04 26	10/19/04 47	11/02/04 31
1,3-Dichlorobenzene	ug/Kg	10/21/04 21	10/20/04 29	04/16/03 24	10/21/04 25	10/19/04 28	11/02/04 33
Benzyl alcohol	ug/Kg	10/21/04 38	10/20/04 37	04/16/03 18	10/21/04 19	10/19/04 39	11/02/04 33
1,2-Dichlorobenzene	ug/Kg	10/21/04 22	10/20/04 33	04/16/03 25	10/21/04 32	10/19/04 33	11/02/04 35
2-Methylphenol	ug/Kg	10/21/04 60	10/20/04 76	04/16/03 25	10/21/04 59	10/19/04 82	11/02/04 40
bis(2-Chloroisopropyl) ether	ug/Kg	10/21/04 18	10/20/04 40	04/16/03 21	10/21/04 23	10/19/04 39	11/02/04 30
4-Methylphenol	ug/Kg	10/21/04 81	10/20/04 60	04/16/03 25	10/21/04 45	10/19/04 76	11/02/04 44
Hexachloroethane	ug/Kg	10/21/04 53	10/20/04 41	04/16/03 24	10/21/04 23	10/19/04 30	11/02/04 35
Nitrobenzene	ug/Kg	10/21/04 35	10/20/04 32	04/16/03 20	10/21/04 26	10/19/04 39	11/02/04 28
Isophorone	ug/Kg	10/21/04 41	10/20/04 37	04/16/03 18	10/21/04 21	10/19/04 35	11/02/04 47
2-Nitrophenol	ug/Kg	10/21/04 65	10/20/04 71	04/16/03 26	10/21/04 45	10/19/04 61	11/02/04 69
2,4-Dimethylphenol	ug/Kg	10/21/04 79	10/20/04 79	04/16/03 72	10/21/04 58	10/19/04 68	11/02/04 69
Benzoic acid	ug/Kg	04/28/03 49	10/20/04 26	04/16/03 200	10/21/04 56	10/19/04 70	11/02/04 91
bis(2-Chloroethoxy)methane	ug/Kg	10/21/04 17	10/20/04 36	04/16/03 22	10/21/04 22	10/19/04 39	11/02/04 34
2,4-Dichlorophenol	ug/Kg	10/21/04 66	10/20/04 59	04/16/03 25	10/21/04 52	10/19/04 59	11/02/04 51
Naphthalene	ug/Kg	10/21/04 23	10/20/04 30	04/16/03 22	10/21/04 21	10/19/04 36	11/02/04 34
4-Chloroaniline	ug/Kg	10/21/04 11	10/20/04 21	04/16/03 36	10/21/04 16	10/19/04 21	11/02/04 19
Hexachlorobutadiene	ug/Kg	10/21/04 44	10/20/04 34	04/16/03 23	10/21/04 25	10/19/04 28	11/02/04 35
2-Methylnaphthalene	ug/Kg	10/21/04 28	10/20/04 34	04/16/03 24	10/21/04 29	10/19/04 30	11/02/04 38
Hexachlorocyclopentadiene	ug/Kg	10/21/04 31	10/20/04 58	04/16/03 110	10/21/04 40	10/19/04 38	11/02/04 52
2,4,6-Trichlorophenol	ug/Kg	10/21/04 88	10/20/04 55	04/16/03 29	10/21/04 43	10/19/04 59	11/02/04 55
2,4,5-Trichlorophenol	ug/Kg	10/21/04 110	10/20/04 47	04/16/03 33	10/21/04 42	10/19/04 57	11/02/04 58

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05	MSBNA06
2-Chloronaphthalene	ug/Kg	10/21/04 20	10/20/04 43	04/16/03 20	10/21/04 20	10/19/04 39	11/02/04 34
2-Nitroaniline	ug/Kg	10/21/04 29	10/20/04 35	04/25/03 8.8	10/21/04 23	10/19/04 49	11/02/04 38
Dimethylphthalate	ug/Kg	10/21/04 20	10/20/04 31	04/16/03 26	10/21/04 17	10/19/04 35	11/02/04 31
Acenaphthylene	ug/Kg	10/21/04 12	10/20/04 22	04/25/03 14	10/21/04 14	10/19/04 28	11/02/04 22
2,6-Dinitrotoluene	ug/Kg	10/21/04 30	10/20/04 16	04/16/03 32	10/21/04 16	10/19/04 33	11/02/04 33
3-Nitroaniline	ug/Kg	10/21/04 38	10/20/04 17	04/25/03 16	10/21/04 26	10/19/04 25	11/02/04 20
2,4-Dinitrophenol	ug/Kg	10/21/04 62	10/20/04 28	04/16/03 200	10/21/04 25	10/19/04 45	11/02/04 31
Dibenzofuran	ug/Kg	10/21/04 15	10/20/04 32	04/16/03 24	10/21/04 16	10/19/04 34	11/02/04 36
Diethylphthalate	ug/Kg	10/21/04 15	10/20/04 29	04/16/03 27	10/21/04 21	10/19/04 38	11/02/04 32
Fluorene	ug/Kg	10/21/04 20	10/20/04 31	04/25/03 15	10/21/04 20	10/19/04 38	11/02/04 30
4-Chlorophenyl-phenylether	ug/Kg	10/21/04 28	10/20/04 32	04/16/03 25	10/21/04 17	10/19/04 36	11/02/04 36
4-Nitroaniline	ug/Kg	10/21/04 38	10/20/04 25	04/16/03 30	10/21/04 16	10/19/04 38	11/02/04 17
4,6-Dinitro-2-methylphenol	ug/Kg	10/21/04 49	10/20/04 52	04/16/03 230	10/21/04 40	10/19/04 80	11/02/04 38
N-Nitrosodiphenylamine	ug/Kg	10/21/04 16	10/20/04 33	04/16/03 34	10/21/04 25	10/19/04 36	11/02/04 31
Azobenzene	ug/Kg	10/21/04 17	10/20/04 34	04/16/03 29	10/21/04 17	10/19/04 46	11/02/04 24
4-Bromophenyl-phenylether	ug/Kg	10/21/04 8.7	10/20/04 34	04/16/03 25	10/21/04 21	10/19/04 30	11/02/04 34
Hexachlorobenzene	ug/Kg	10/21/04 8.7	10/20/04 43	04/16/03 25	10/21/04 28	10/19/04 32	11/02/04 34
Phenanthrene	ug/Kg	10/21/04 5.9	10/20/04 30	04/25/03 13	10/21/04 18	10/19/04 37	11/02/04 31
Anthracene	ug/Kg	10/21/04 2.3	10/20/04 26	04/25/03 14	10/21/04 9.5	10/19/04 29	11/02/04 20
Di-n-butylphthalate	ug/Kg	10/21/04 13	10/20/04 34	04/16/03 37	10/21/04 17	10/19/04 39	11/02/04 26
Fluoranthene	ug/Kg	10/21/04 15	10/20/04 32	04/25/03 12	10/21/04 22	10/19/04 36	11/02/04 32
Benzidine	ug/Kg	04/28/03 80	05/02/03 33				
Butylbenzylphthalate	ug/Kg	10/21/04 38	10/20/04 25	04/16/03 28	10/21/04 22	10/19/04 38	11/02/04 37
3,3'-Dichlorobenzidine	ug/Kg	10/21/04 25	10/20/04 18	04/16/03 49	10/21/04 27	10/19/04 24	11/02/04 32
Benzo(a)anthracene	ug/Kg	10/21/04 41	10/20/04 25	04/25/03 11	10/21/04 23	10/19/04 32	11/02/04 27
Chrysene	ug/Kg	10/21/04 31	10/20/04 35	04/25/03 13	10/21/04 17	10/19/04 30	11/02/04 27
bis(2-Ethylhexyl)phthalate	ug/Kg	10/21/04 40	10/20/04 17	04/16/03 28	10/21/04 16	10/19/04 33	11/02/04 52
Di-n-octylphthalate	ug/Kg	10/21/04 32	10/20/04 10	04/16/03 29	10/21/04 13	10/19/04 39	11/02/04 29
Benzo(b)fluoranthene	ug/Kg	10/21/04 31	10/20/04 42	04/25/03 12	10/21/04 24	10/19/04 29	11/02/04 24
Benzo(k)fluoranthene	ug/Kg	10/21/04 18	10/20/04 22	04/25/03 9.2	10/21/04 37	10/19/04 43	11/02/04 27
Benzo(a)pyrene	ug/Kg	10/21/04 29	10/20/04 23	04/25/03 11	10/21/04 13	10/19/04 27	11/02/04 21
Indeno(1,2,3-cd)pyrene	ug/Kg	10/21/04 44	10/20/04 39	04/25/03 14	10/21/04 14	10/19/04 37	11/02/04 29
Dibenz(a,h)anthracene	ug/Kg	10/21/04 57	10/20/04 25	04/25/03 14	10/21/04 23	10/19/04 35	11/02/04 27
Benzo(g,h,i)perylene	ug/Kg	10/21/04 53	10/20/04 23	04/25/03 14	10/21/04 17	10/19/04 38	11/02/04 26

SEMI-VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX149[0.5]	Batch#:	96880
Lab ID:	176210-007	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/30/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	
Phenol	ND	340	69
bis(2-Chloroethyl)ether	ND	340	
2-Chlorophenol	ND	340	
1,3-Dichlorobenzene	ND	340	
1,4-Dichlorobenzene	ND	340	42
Benzyl alcohol	ND	340	
1,2-Dichlorobenzene	ND	340	
2-Methylphenol	ND	340	
bis(2-Chloroisopropyl) ether	ND	340	
4-Methylphenol	ND	340	
N-Nitroso-di-n-propylamine	ND	340	
Hexachloroethane	ND	340	
Nitrobenzene	ND	340	
Isophorone	ND	340	
2-Nitrophenol	ND	690	
2,4-Dimethylphenol	ND	340	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	340	
2,4-Dichlorophenol	ND	340	
1,2,4-Trichlorobenzene	ND	340	
Naphthalene	ND	340	
4-Chloroaniline	ND	340	
Hexachlorobutadiene	ND	340	
4-Chloro-3-methylphenol	ND	340	
2-Methylnaphthalene	ND	340	34
Hexachlorocyclopentadiene	ND	1,700	
2,4,6-Trichlorophenol	ND	340	
2,4,5-Trichlorophenol	ND	340	
2-Chloronaphthalene	ND	340	
2-Nitroaniline	ND	690	
Dimethylphthalate	ND	340	
Acenaphthylene	ND	340	
2,6-Dinitrotoluene	ND	340	
3-Nitroaniline	ND	690	
Acenaphthene	ND	690	
2,4-Dinitrophenol	ND	1,700	
4-Nitrophenol	ND	690	
Dibenzofuran	ND	340	
2,4-Dinitrotoluene	ND	340	
Diethylphthalate	ND	340	
Fluorene	ND	340	
4-Chlorophenyl-phenylether	ND	340	
4-Nitroaniline	ND	690	
4,6-Dinitro-2-methylphenol	ND	1,700	
N-Nitrosodiphenylamine	ND	340	
Azobenzene	ND	340	
4-Bromophenyl-phenylether	ND	340	
Hexachlorobenzene	ND	340	
Pentachlorophenol	ND	690	
Phenanthrene	ND	340	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX149[0.5]	Batch#:	96880
Lab ID:	176210-007	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/30/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Anthracene	ND	340	
Di-n-butylphthalate	ND	340	
Fluoranthene	ND	340	
Pyrene	ND	340	
Butylbenzylphthalate	ND	340	
3,3'-Dichlorobenzidine	ND	690	
Benzo(a)anthracene	ND	69	26
Chrysene	ND	340	
bis(2-Ethylhexyl)phthalate	ND	340	
Di-n-octylphthalate	ND	340	
Benzo(b)fluoranthene	ND	69	43
Benzo(k)fluoranthene	ND	69	23
Benzo(a)pyrene	ND	69	24
Indeno(1,2,3-cd)pyrene	ND	69	41
Dibenz(a,h)anthracene	ND	69	26
Benzo(g,h,i)perylene	ND	340	

Surrogate	%REC	Limits
2-Fluorophenol	84	25-121
Phenol-d5	84	24-113
2,4,6-Tribromophenol	94	19-122
Nitrobenzene-d5	88	23-120
2-Fluorobiphenyl	95	30-115
Terphenyl-d14	76	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273867	Batch#:	96880
Matrix:	Soil	Prepared:	11/24/04
Units:	ug/Kg	Analyzed:	12/01/04
Basis:	as received		

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	50
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND	330	
1,4-Dichlorobenzene	ND	330	29
Benzyl alcohol	ND	330	
1,2-Dichlorobenzene	ND	330	
2-Methylphenol	ND	330	
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND	330	
Nitrobenzene	ND	330	
Isophorone	ND	330	
2-Nitrophenol	ND	660	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,600	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	330	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	330	29
Hexachlorocyclopentadiene	ND	1,600	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	660	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	330	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	660	
Acenaphthene	ND	660	
2,4-Dinitrophenol	ND	1,600	
4-Nitrophenol	ND	660	
Dibenzofuran	ND	330	
2,4-Dinitrotoluene	ND	330	
Diethylphthalate	ND	330	
Fluorene	ND	330	
4-Chlorophenyl-phenylether	ND	330	
4-Nitroaniline	ND	660	
4,6-Dinitro-2-methylphenol	ND	1,600	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	660	
Phenanthrene	ND	330	
Anthracene	ND	330	
Di-n-butylphthalate	ND	330	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273867	Batch#:	96880
Matrix:	Soil	Prepared:	11/24/04
Units:	ug/Kg	Analyzed:	12/01/04
Basis:	as received		

Analyte	Result	RL	MDL
Fluoranthene	ND	330	
Pyrene	ND	330	
Butylbenzylphthalate	ND	330	
3,3'-Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	23
Chrysene	ND	330	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	24
Benzo(k)fluoranthene	ND	66	36
Benzo(a)pyrene	ND	66	13
Indeno(1,2,3-cd)pyrene	ND	66	14
Dibenz(a,h)anthracene	ND	66	23
Benzo(g,h,i)perylene	ND	330	

Surrogate	%REC	Limits
2-Fluorophenol	89	25-121
Phenol-d5	82	24-113
2,4,6-Tribromophenol	75	19-122
Nitrobenzene-d5	82	23-120
2-Fluorobiphenyl	97	30-115
Terphenyl-d14	84	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC273868	Batch#:	96880
Matrix:	Soil	Prepared:	11/24/04
Units:	ug/Kg	Analyzed:	12/01/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,291	2,792	85	40-119
2-Chlorophenol	3,291	3,246	99	39-119
1,4-Dichlorobenzene	1,645	1,529	93	36-111
N-Nitroso-di-n-propylamine	1,645	1,478	90	35-117
1,2,4-Trichlorobenzene	1,645	1,529	93	36-107
4-Chloro-3-methylphenol	3,291	3,095	94	41-122
Acenaphthene	1,645	1,621	99	36-111
4-Nitrophenol	3,291	3,082	94	45-130
2,4-Dinitrotoluene	1,645	1,552	94	43-114
Pentachlorophenol	3,291	2,322	71	39-119
Pyrene	1,645	1,636	99	35-142

Surrogate	%REC	Limits
2-Fluorophenol	103	25-121
Phenol-d5	93	24-113
2,4,6-Tribromophenol	87	19-122
Nitrobenzene-d5	93	23-120
2-Fluorobiphenyl	105	30-115
Terphenyl-d14	93	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550B
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	96880
MSS Lab ID:	176211-001	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	12/02/04
Diln Fac:	1.000		

Type: MS Moisture: 16%
Lab ID: QC273869

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<60.71	3,946	3,564	90	26-100
2-Chlorophenol	<46.43	3,946	4,178	106 *	25-102
1,4-Dichlorobenzene	<34.52	1,973	2,015	102	28-104
N-Nitroso-di-n-propylamine	<36.90	1,973	1,914	97	41-126
1,2,4-Trichlorobenzene	<21.43	1,973	2,053	104	38-107
4-Chloro-3-methylphenol	<47.62	3,946	4,117	104 *	26-103
Acenaphthene	<23.81	1,973	2,136	108	31-137
4-Nitrophenol	<36.90	3,946	3,956	100	11-114
2,4-Dinitrotoluene	<34.52	1,973	2,003	102 *	28-100
Pentachlorophenol	<103.6	3,946	2,812	71	17-109
Pyrene	<25.00	1,973	2,429	123	35-142

Surrogate	%REC	Limits
2-Fluorophenol	110	25-121
Phenol-d5	99	24-113
2,4,6-Tribromophenol	95	19-122
Nitrobenzene-d5	102	23-120
2-Fluorobiphenyl	112	30-115
Terphenyl-d14	114	18-137

Type: MSD Moisture: 16%
Lab ID: QC273870

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,915	3,146	80	26-100	12	35
2-Chlorophenol	3,915	3,723	95	25-102	11	50
1,4-Dichlorobenzene	1,957	1,774	91	28-104	12	27
N-Nitroso-di-n-propylamine	1,957	1,745	89	41-126	8	38
1,2,4-Trichlorobenzene	1,957	1,816	93	38-107	11	23
4-Chloro-3-methylphenol	3,915	3,569	91	26-103	13	33
Acenaphthene	1,957	1,888	96	31-137	12	19
4-Nitrophenol	3,915	3,397	87	11-114	14	50
2,4-Dinitrotoluene	1,957	1,746	89	28-100	13	47
Pentachlorophenol	3,915	2,546	65	17-109	9	48
Pyrene	1,957	2,280	116	35-142	6	36

Surrogate	%REC	Limits
2-Fluorophenol	99	25-121
Phenol-d5	88	24-113
2,4,6-Tribromophenol	83	19-122
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	102	30-115
Terphenyl-d14	110	18-137

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK301.D

Date : 03-NOV-2004 15:09

Client ID: dftpp tune std

Instrument: MSBNA02.i

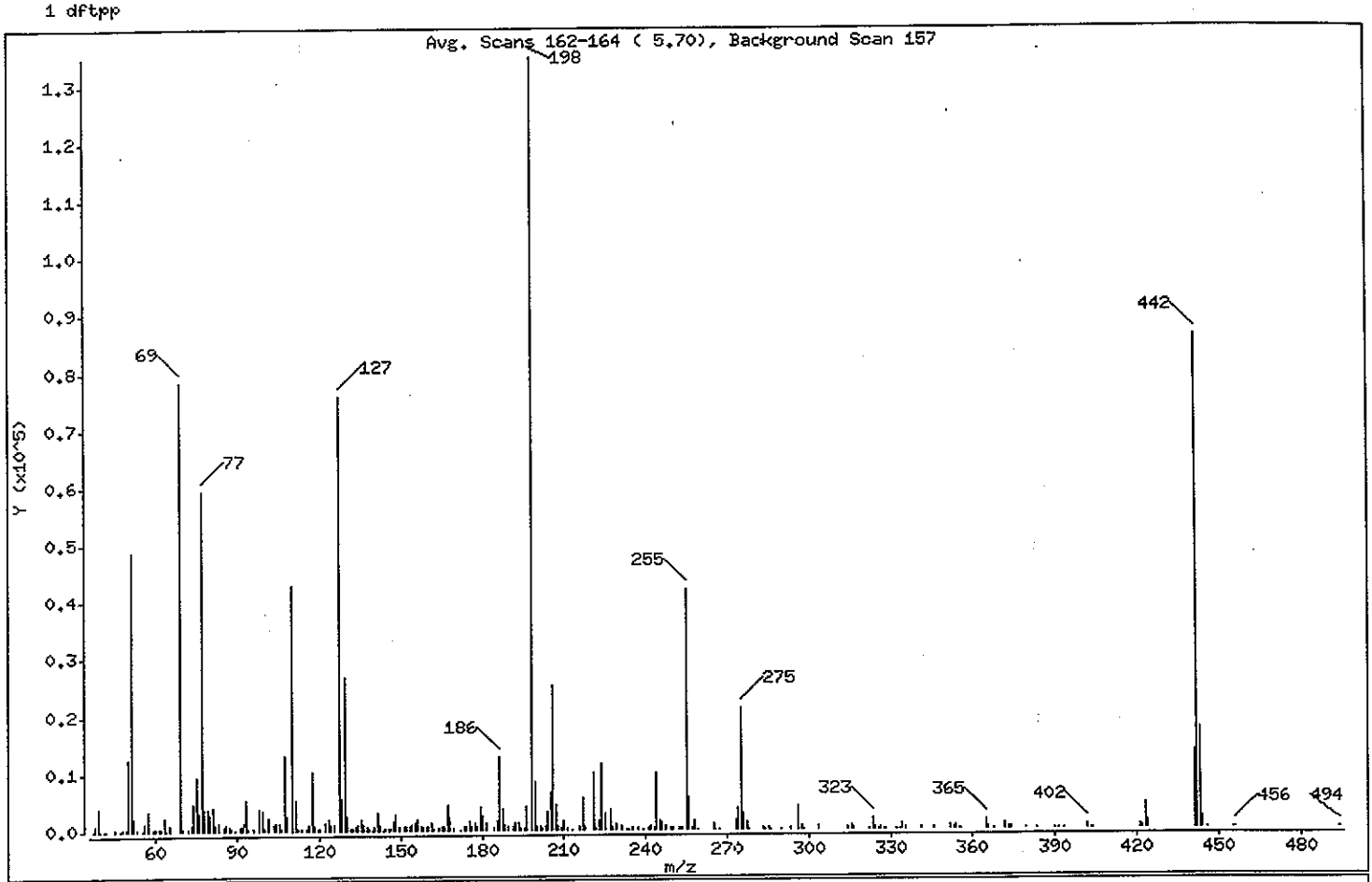
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	36.25
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	58.02
70	Less than 2.00% of mass 69	0.28 (0.48)
127	40.00 - 60.00% of mass 198	56.29
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.10
275	10.00 - 30.00% of mass 198	15.69
365	Greater than 1.00% of mass 198	1.18
441	Present, but less than mass 443	9.99
442	40.00 - 99.99% of mass 198	63.70
443	17.00 - 23.00% of mass 442	12.86 (20.19)

8270 GCAL
11/4/04

AL
11/04/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\113004.b\UKU01.D

Date : 30-NOV-2004 12:34

Client ID: dftpp tune std

Instrument: MSBNA02.i

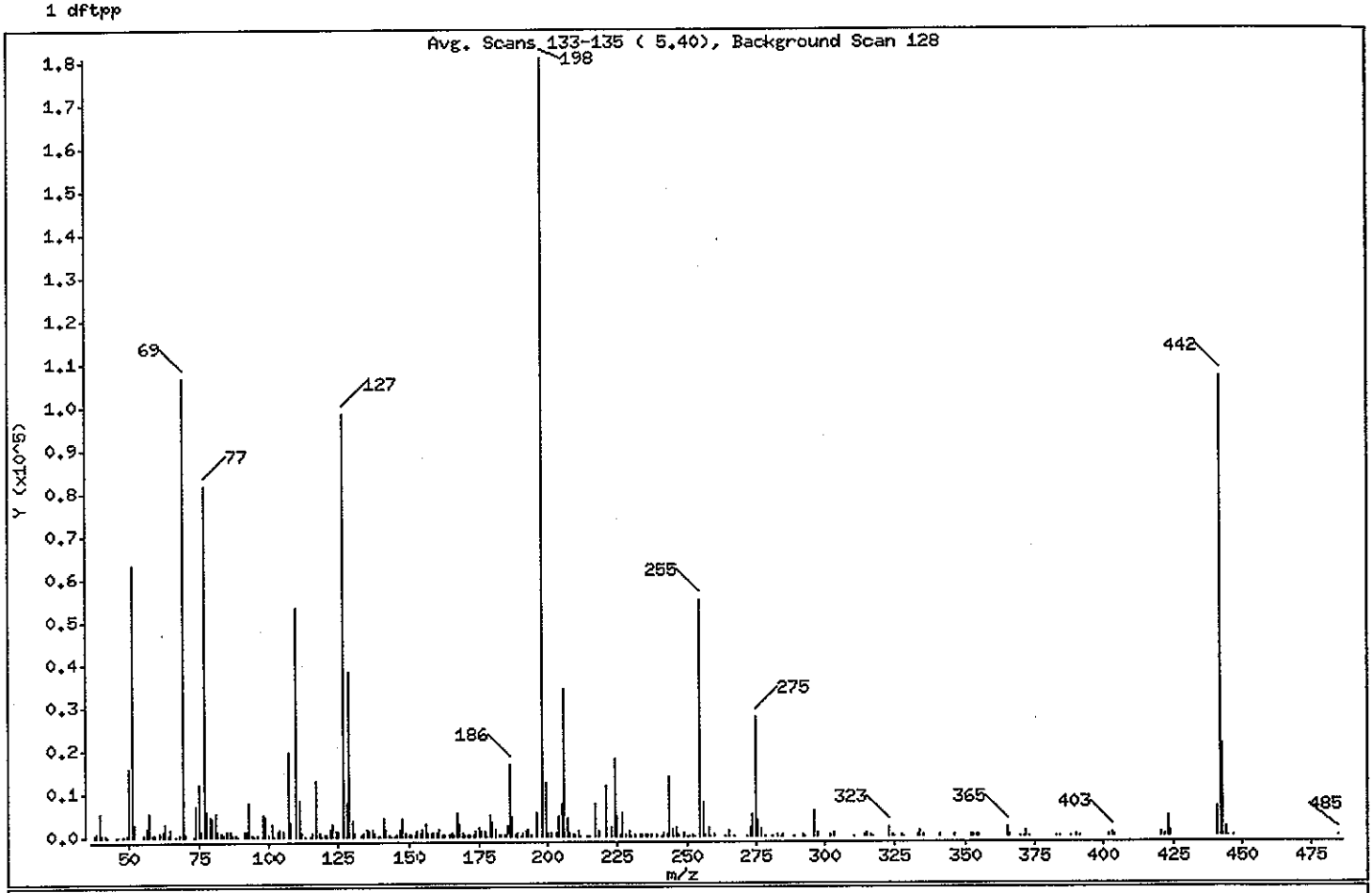
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.94
68	Less than 1.99% of mass 69	0.34 (0.58)
69	Mass 69 relative abundance	59.07
70	Less than 2.00% of mass 69	0.36 (0.61)
127	40.00 - 60.00% of mass 198	54.29
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.95
275	10.00 - 30.00% of mass 198	15.10
365	Greater than 1.00% of mass 198	1.18
441	Present, but less than mass 443	3.61
442	40.00 - 99.99% of mass 198	59.08
443	17.00 - 23.00% of mass 442	11.86 (20.08)

12/01/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT02.D

Date : 29-NOV-2004 10:12

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

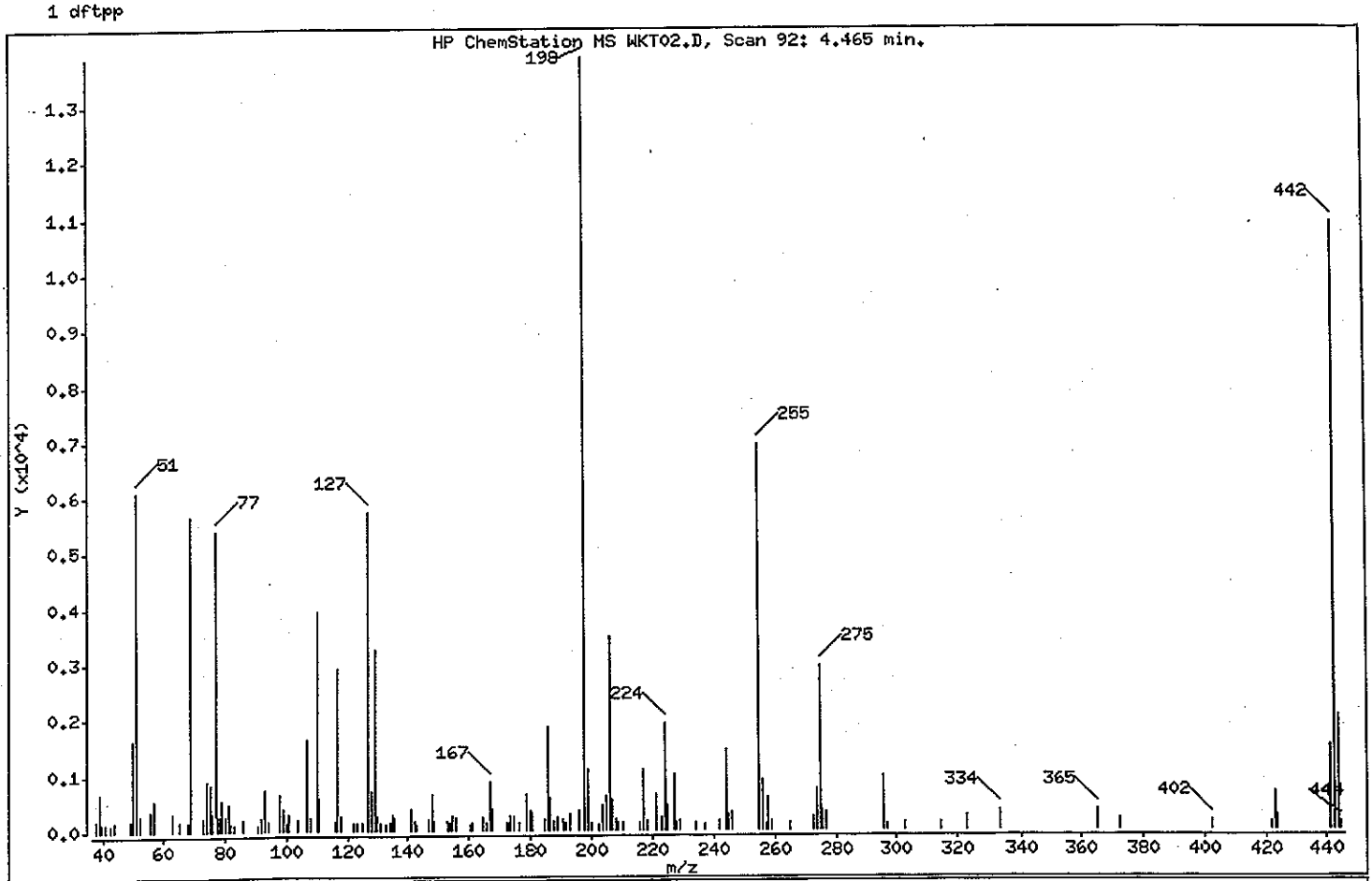
Volume Injected (uL): 1.0

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.08
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.79
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.24
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.79
275	10.00 - 30.00% of mass 198	21.27
365	Greater than 1.00% of mass 198	2.45
441	Present, but less than mass 443	10.72
442	40.00 - 99.99% of mass 198	78.46
443	17.00 - 23.00% of mass 442	14.79 (18.85)

ICAL ok 11/30/04

11/30/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\120104.b\WL111.D

Date : 01-DEC-2004 17:29

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

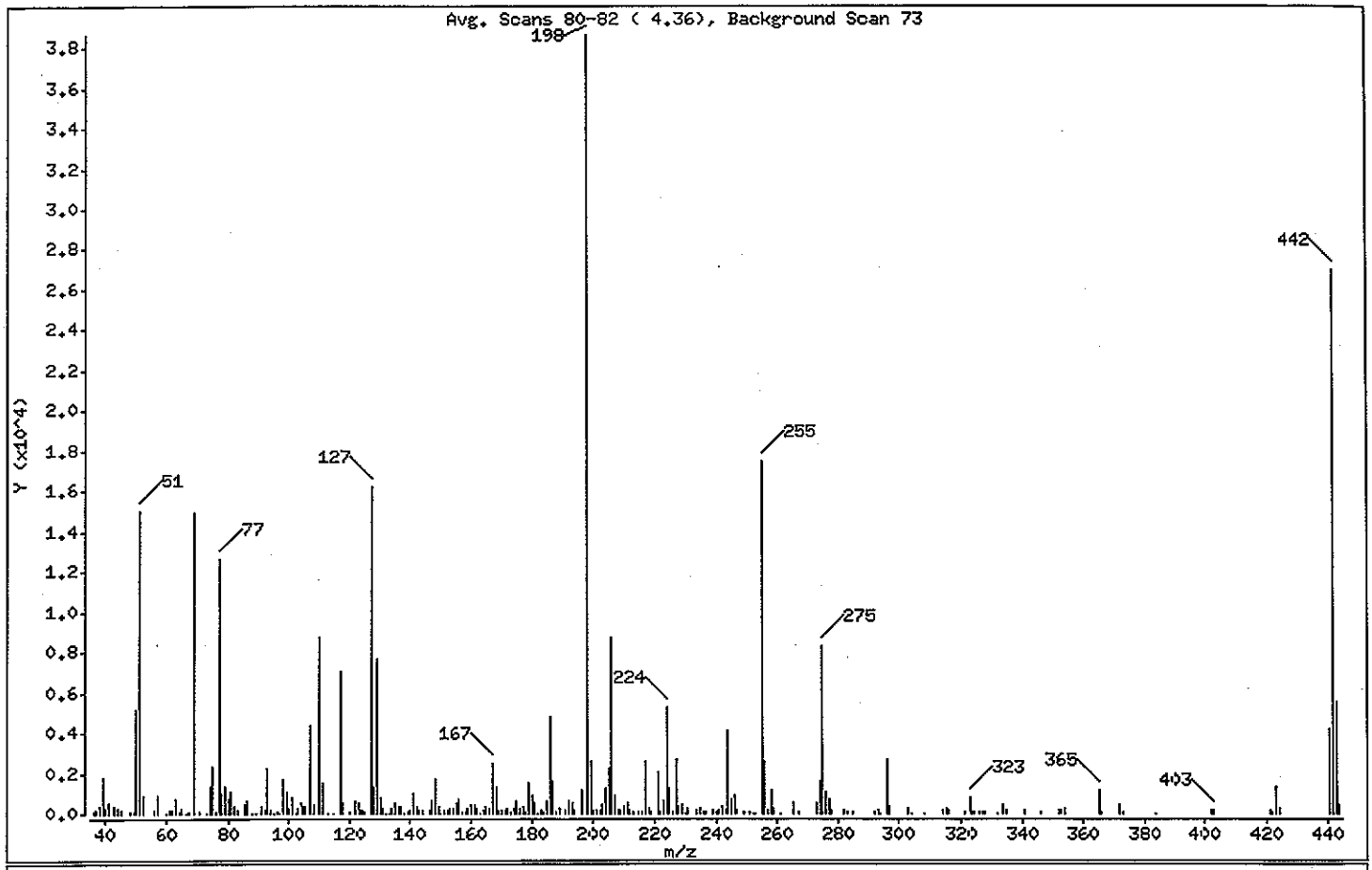
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.91
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.63
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.96
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 30.00% of mass 198	21.36
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	10.87
442	40.00 - 99.99% of mass 198	69.84
443	17.00 - 23.00% of mass 442	14.23 (20.37)

ok

12/02/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\120204.b\WL201.D

Date : 02-DEC-2004 10:09

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

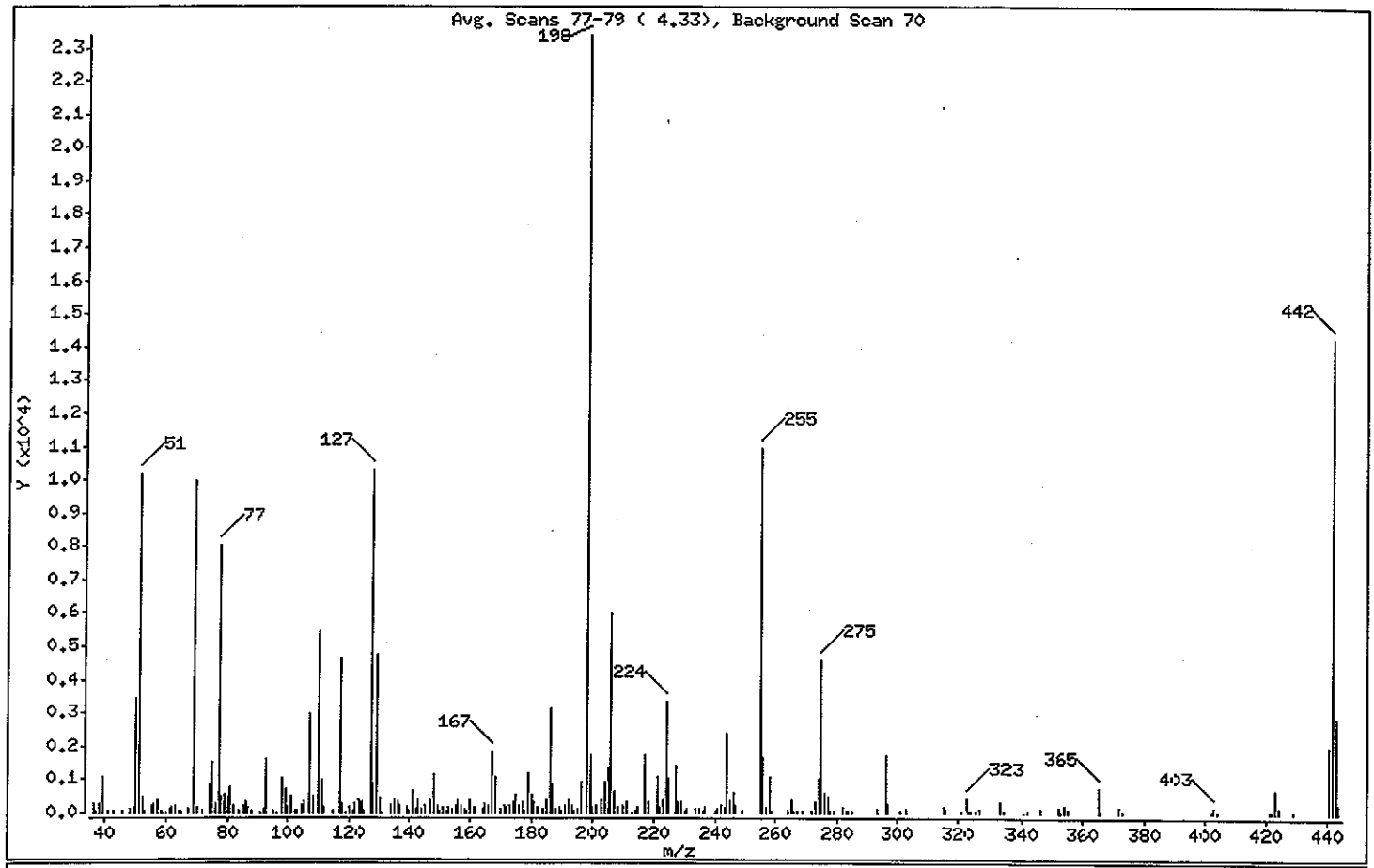
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.57
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.63
70	Less than 2.00% of mass 69	0.68 (1.60)
127	40.00 - 60.00% of mass 198	44.05
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.41
275	10.00 - 30.00% of mass 198	19.58
365	Greater than 1.00% of mass 198	3.16
441	Present, but less than mass 443	8.48
442	40.00 - 99.99% of mass 198	60.97
443	17.00 - 23.00% of mass 442	12.24 (20.07)

BNA2 8270 Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA02 HP GCMS BNA 02 Reviewed By:
Calnum: 514444429002 Name: 6PTBNA2 Type: (normal) Date: 03-NOV-2004 16:56 Inj Vol (uL): 1

See quant report B3 for manual integrations due to splitting/misidentification

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	uk303	514444429003	2ug/ml ICAL	03-NOV-2004 16:56	04WS1856
2	uk304	514444429004	5ug/ml ICAL	03-NOV-2004 17:41	04WS1908
3	uk305	514444429005	10ug/ml ICAL	03-NOV-2004 18:27	04WS1857
4	uk306	514444429006	20ug/ml ICAL	03-NOV-2004 19:12	04WS1858
5	uk307	514444429007	50ug/ml ICAL	03-NOV-2004 19:58	04WS1859
6	uk308	514444429008	80ug/ml ICAL	03-NOV-2004 20:43	04WS1860
7	uk309	514444429009	100ug/ml ICAL	03-NOV-2004 21:29	04WS1923
8	uk310	514444429010	120ug/ml ICAL	03-NOV-2004 22:16	04WS1861
9	uk311	514444429011	160ug/ml ICAL	03-NOV-2004 23:01	04WS1862

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	F
N-Nitrosodimethylamine		0.3859	0.4556	0.4293	0.4198	0.3983	0.3844	0.3914	0.3894	AVRG	R		2.458450		ng	0.4068	6	0.0500	0.99	15	
Pyridine		1.1190m	1.2417	1.3278	1.3469	1.3310	1.3086	1.3348	1.3624	AVRG	R		0.771293		ng	1.2965	6	0.0500	0.99	15	
Phenol		1.8863	1.9861	1.9227	1.7118	1.6587	1.5829	1.6539	1.5945	AVRG	R		0.571556		ng	1.7496	9	0.0500	0.99	15	
Aniline		0.6191	0.7038	0.7075	0.6044	0.6053	0.5727	0.6089	0.6108	AVRG	R		1.589685		ng	0.6291	8	0.0500	0.99	15	
bis(2-Chloroethyl)ether		1.0774	1.1189	1.0347	1.0128	0.9371	0.9156	0.9217	0.9114	AVRG	R		1.008871		ng	0.9912	8	0.0500	0.99	15	
2-Chlorophenol		1.4062	1.5791	1.5912	1.5424	1.5139	1.4757	1.5205	1.4629	AVRG	R		0.661598		ng	1.5115	4	0.0500	0.99	15	
1,3-Dichlorobenzene		1.5074	1.6153	1.5773	1.5268	1.4385	1.4045	1.4313	1.3003	AVRG	R		0.677884		ng	1.4752	7	0.0500	0.99	15	
1,4-Dichlorobenzene		1.5492	1.6274	1.5862	1.5505	1.4560	1.4263	1.4319	1.2792	AVRG	R		0.671888		ng	1.4883	8	0.0500	0.99	15	
Benzyl alcohol		0.8770	0.9684	0.9996	1.0216	1.0325	0.9875	1.0197	1.0138	AVRG	R		1.010083		ng	0.9900	5	0.0500	0.99	15	
1,2-Dichlorobenzene		1.4326	1.5700	1.4757	1.4458	1.3769	1.3648	1.3752	1.2384	AVRG	R		0.709264		ng	1.4099	7	0.0500	0.99	15	
2-Methylphenol		1.0049	1.1015	1.0969	1.0251	0.9942	0.9507	0.9716	0.9119	AVRG	R		0.992958		ng	1.0071	7	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		2.1773	2.3176	2.1374	1.9550	1.7943	1.8030	1.8027	1.6206	AVRG	R		0.512562		ng	1.9510	12	0.0500	0.99	15	
4-Methylphenol		1.5126	1.6823	1.6609	1.6018	1.5580	1.5433	1.5638	1.5271m	AVRG	R		0.632423		ng	1.5812	4	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.8367	0.9479	0.9291	0.9160	0.8783	0.8334	0.8478	0.8231	AVRG	R		1.140837		ng	0.8765	6	0.0500	0.99	15	
Hexachloroethane		0.5917	0.6668	0.6514	0.6594	0.6271	0.6120	0.6281	0.5768	AVRG	R		1.595729		ng	0.6267	5	0.0500	0.99	15	
Nitrobenzene		0.3141	0.3393	0.3145	0.3148	0.3108	0.2935	0.2983	0.2812	AVRG	R		3.243455		ng	0.3083	6	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL: All except Benzidine fails %RSD + r^2 - NT
ICV: All except Benzidine ↓ fails ID
- Dibenz(a,h)anthracene ↑ fails recovery limits

11/5/04

11/05/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA02 HP GCMS BNA 02 Reviewed By:
Calnum: 514444429002 Name: 6PTBNA2 Type: (normal) Date: 03-NOV-2004 16:56 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	F
Isophorone		0.6502	0.7597	0.7326	0.7011	0.7036	0.6524	0.6763	0.6712	AVRG	R		1.442196		ng	0.6934	6	0.0500	0.99	15	
2-Nitrophenol		0.1825	0.2187	0.2251	0.2338	0.2448	0.2292	0.2329	0.2327	AVRG	R		4.445373		ng	0.2250	8	0.0500	0.99	15	
2,4-Dimethylphenol		0.2964	0.3213	0.3248	0.2934	0.2828	0.2801	0.2919	0.2827	AVRG	R		3.370911		ng	0.2967	6	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.4567	0.5078	0.4806	0.4406	0.4334	0.4006	0.4108	0.3831	AVRG	R		2.276857		ng	0.4392	10	0.0500	0.99	15	
Benzoic acid				0.0227m	0.1046m	0.1867	0.1799	0.1811	0.2212	QUAD	R	19.70134	4.967594	-0.02773	ng	0.1494	0.990	0.0500	0.99	15	
2,4-Dichlorophenol		0.2268	0.2616	0.2717	0.2737	0.2821	0.2608	0.2704	0.2589	AVRG	R		3.798784		ng	0.2632	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.2728	0.2985	0.2819	0.2732	0.2731	0.2574	0.2638	0.2375	AVRG	R		3.706639		ng	0.2698	7	0.0500	0.99	15	
Naphthalene	1.0911	0.9828	1.0953	1.0355	0.9934	0.8954	0.8738	0.8618	0.6913	AVRG	R		1.056295		ng	0.9467	14	0.0500	0.99	15	
4-Chloroaniline		0.4159	0.4775	0.4675	0.4551	0.4581	0.4197	0.4446	0.4105	AVRG	R		2.254200		ng	0.4436	6	0.0500	0.99	15	
Hexachlorobutadiene		0.1223	0.1367	0.1262	0.1280	0.1265	0.1189	0.1216	0.1111	AVRG	R		8.069410		ng	0.1239	6	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2408	0.2822	0.2808	0.2723	0.2681	0.2512	0.2548	0.2462	AVRG	R		3.816204		ng	0.2620	6	0.0500	0.99	15	
2-Methylnaphthalene	0.6977	0.6177	0.6863	0.6683	0.6662	0.6208	0.5816	0.5945	0.5194	AVRG	R		1.592281		ng	0.6280	9	0.0500	0.99	15	
Hexachlorocyclopentadiene		0.0614	0.0974	0.1341	0.1666	0.1925	0.1735	0.1908		QUAD	R	4.211126	5.633585	-0.02385	ng	0.1452	0.995	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.2478	0.3253	0.3491	0.3707	0.3791	0.3488	0.3650	0.3455	AVRG	R		2.929055		ng	0.3414	12	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.2934	0.3418	0.3706	0.3946	0.3825	0.3694	0.3750	0.3428	AVRG	R		2.787328		ng	0.3588	9	0.0500	0.99	15	
2-Chloronaphthalene		1.0560	1.1307	1.0942	1.0900	1.0380	0.9843	1.0241	0.8845	AVRG	R		0.963651		ng	1.0377	7	0.0500	0.99	15	
2-Nitroaniline		0.2777	0.3143	0.3230	0.3204	0.3212	0.2964	0.3159	0.3081	AVRG	R		3.229703		ng	0.3096	5	0.0500	0.99	15	
Dimethylphthalate		1.2842	1.4005	1.3980	1.3338	1.2858	1.1908	1.2468	1.1411	AVRG	R		0.778125		ng	1.2851	7	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2750	0.3306	0.3382	0.3619	0.3765	0.3358	0.3531	0.3569	AVRG	R		2.932489		ng	0.3410	9	0.0500	0.99	15	
Acenaphthylene	1.7441	1.7248	1.8645	1.8699	1.8304	1.6855	1.5901	1.6294	1.3848	AVRG	R		0.587340		ng	1.7026	9	0.0500	0.99	15	
3-Nitroaniline		0.3307	0.3579	0.3567	0.4101	0.4372	0.3875	0.4256	0.4302	AVRG	R		2.551183		ng	0.3920	10	0.0500	0.99	15	
Acenaphthene	1.0364	1.0143	1.0844	1.0634	1.1122	1.0868	1.0186	1.0540	0.9119	AVRG	R		0.959288		ng	1.0424	6	0.0500	0.99	15	
2,4-Dinitrophenol				0.0245	0.0925	0.1467	0.1308	0.1500	0.1879	QUAD	R	17.23709	6.871569	-0.07019	ng	0.1221	0.992	0.0500	0.99	15	
4-Nitrophenol		0.0260	0.0421	0.0579	0.0733	0.0813	0.0741	0.0770	0.0809	QUAD	R	4.064044	12.86435	-0.05771	ng	0.0641	0.998	0.0500	0.99	15	
Dibenzofuran		1.4718	1.5565	1.5359	1.5030	1.4063	1.3117	1.3604	1.1690	AVRG	R		0.707056		ng	1.4143	9	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3241	0.3715	0.4125	0.4244	0.4445	0.4039	0.4297	0.3933	AVRG	R		2.496867		ng	0.4005	10	0.0500	0.99	15	
Diethylphthalate		1.3019	1.4302	1.3719	1.3162	1.2211	1.1545	1.1809	1.0400	AVRG	R		0.798671		ng	1.2521	10	0.0500	0.99	15	
Fluorene	1.2378	1.1305	1.2260	1.2200	1.1910	1.1329	1.0569	1.0906	0.9599	AVRG	R		0.878426		ng	1.1384	8	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.5214	0.5810	0.5734	0.5774	0.5600	0.5179	0.5326	0.4610	AVRG	R		1.849879		ng	0.5406	8	0.0500	0.99	15	
4-Nitroaniline		0.2383	0.2563	0.2717	0.3465	0.3854	0.3496	0.3749	0.3866	QUAD	R	3.000127	2.774856	-0.00378	ng	0.3262	0.998	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol		0.0102	0.0359	0.0795	0.1300	0.1613	0.1412	0.1621	0.1755	QUAD	R	7.088149	6.800096	-0.04850	ng	0.1120	0.995	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA02 HP GCMS BNA 02 Reviewed By:
Calnum: 514444429002 Name: 6PTBNA2 Type: (normal) Date: 03-NOV-2004 16:56 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	F
N-Nitrosodiphenylamine		0.5178	0.5714	0.5712	0.5684	0.5553	0.5137	0.5646	0.5282	AVRG	R		1.822020		ng	0.5488	5	0.0500	0.99	15	
Azobenzene		0.9044	1.0178	0.9765	0.9192	0.8490	0.8124	0.8653	0.7856	AVRG	R		1.122011		ng	0.8913	9	0.0500	0.99	15	
4-Bromophenyl-phenylether		0.1866	0.2070	0.2084	0.2084	0.1999	0.1822	0.1982	0.1810	AVRG	R		5.089766		ng	0.1965	6	0.0500	0.99	15	
Hexachlorobenzene		0.2130	0.2531	0.2326	0.2264	0.2144	0.1973	0.2055	0.1891	AVRG	R		4.620672		ng	0.2164	9	0.0500	0.99	15	
Pentachlorophenol				0.0778	0.1153	0.1306	0.1182	0.1298	0.1323	QUAD	R	7.962403	7.460093	-0.01301	ng	0.1173	0.996	0.0500	0.99	15	
Phenanthrene	1.0958	1.0094	1.1211	1.1086	1.0826	0.9730	0.9414	0.9836	0.8608	AVRG	R		0.980791		ng	1.0196	9	0.0500	0.99	15	
Anthracene	1.0931	1.0103	1.1436	1.1381	1.0641	0.9938	0.9252	0.9788	0.8521	AVRG	R		0.978351		ng	1.0221	10	0.0500	0.99	15	
Carbazole		0.8253	0.8672	0.7964	0.8333	0.8609	0.7982	0.8423	0.8044	AVRG	R		1.207007		ng	0.8285	3	0.0500	0.99	15	
Di-n-butylphthalate		1.6097	1.8205	1.7630	1.5807	1.3778	1.3292	1.3411		AVRG	R		0.646827		ng	1.5460	13	0.0500	0.99	15	
Fluoranthene	1.0757	0.9870	1.0494	1.0837	1.0311	0.9322	0.8862	0.9108	0.8148	AVRG	R		1.026126		ng	0.9745	10	0.0500	0.99	15	
Benzidine		0.0665	0.0882	0.1562	0.0518	0.0651	0.0487	0.0607	0.0718	AVRG	R		13.14063		ng	0.0761	45	0.0500	0.99	15	
Pyrene	1.9474	1.8500	1.9885	1.9170	1.9857	1.8245	1.7298	1.8461	1.7182	AVRG	R		0.535485		ng	1.8675	5	0.0500	0.99	15	
Butylbenzylphthalate		1.0537	1.2203	1.2013	1.1959	1.1797	1.0848	1.1367	1.0953	AVRG	R		0.872639		ng	1.1459	5	0.0500	0.99	15	
3,3'-Dichlorobenzidine			0.2895	0.2717	0.3279	0.3818	0.3465	0.3836	0.3910	AVRG	R		2.926457		ng	0.3417	14	0.0500	0.99	15	
Benzo(a)anthracene	1.3433	1.2054	1.3148	1.3469	1.2990	1.2559	1.1953	1.2609	1.1852	AVRG	R		0.789001		ng	1.2674	5	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		1.4284	1.6315	1.6351	1.5744	1.5265	1.3966	1.4643	1.3327	AVRG	R		0.667242		ng	1.4987	7	0.0500	0.99	15	
Chrysene	1.2194	1.1161	1.2061	1.2222	1.2450	1.1814	1.0704	1.1765	1.0812	AVRG	R		0.855649		ng	1.1687	5	0.0500	0.99	15	
Di-n-octylphthalate		3.6316	4.3598	4.1612	4.2523	4.0527	3.8002	3.9706	3.8596	AVRG	R		0.249315		ng	4.0110	6	0.0500	0.99	15	
Benzo(b)fluoranthene	1.6022	1.3183	1.5259	1.5919	1.5632	1.6699	1.4370	1.6071	1.6384	AVRG	R		0.644984		ng	1.5504	7	0.0500	0.99	15	
Benzo(k)fluoranthene	1.6025	1.4557	1.5396	1.5473m	1.5879	1.5177	1.5263	1.5533m	1.6241m	AVRG	R		0.644960		ng	1.5505	3	0.0500	0.99	15	
Benzo(a)pyrene	1.2475	1.0778	1.1933	1.2016	1.2593	1.2433	1.1796	1.2377	1.2434	AVRG	R		0.826930		ng	1.2093	5	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	0.7881	0.6952	0.8409	0.8831	0.8818	0.8624	0.8149	0.8591	0.8310	AVRG	R		1.206991		ng	0.8285	7	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.5896	0.5470	0.6552	0.6868	0.7242	0.7114	0.6732	0.6956	0.6930	AVRG	R		1.506036		ng	0.6640	9	0.0500	0.99	15	
Benzo(g,h,i)perylene	0.6465	0.5914	0.6881	0.6776	0.6947	0.6629	0.6334	0.6591	0.6292	AVRG	R		1.529882		ng	0.6536	5	0.0500	0.99	15	
2-Fluorophenol		1.3707	1.5346	1.4897	1.4868	1.4683	1.4247	1.4782	1.4036	AVRG	R		0.686308		ng	1.4571	4	0.0500	0.99	15	
Phenol-d5		1.6032	1.7711	1.7402	1.7540	1.7063	1.6620	1.7259	1.6920	AVRG	R		0.585878		ng	1.7068	3	0.0500	0.99	15	
Nitrobenzene-d5		0.3115	0.3542	0.3437	0.3317	0.3466	0.3171	0.3274	0.3244	AVRG	R		3.011432		ng	0.3321	4	0.0500	0.99	15	
2-Fluorobiphenyl		1.1436	1.2144	1.1601	1.1825	1.1024	1.0531	1.0919	0.9266	AVRG	R		0.901453		ng	1.1093	8	0.0500	0.99	15	
2,4,6-Tribromophenol			0.1297	0.1501	0.1684	0.1664	0.1519	0.1600	0.1446	AVRG	R		6.535496		ng	0.1530	9	0.0500	0.99	15	
Terphenyl-d14		1.1559	1.2475	1.2354	1.2449	1.1686	1.0849	1.1579	1.0777	AVRG	R		0.853524		ng	1.1716	6	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK303.D
Report Date: 04-Nov-2004 08:43

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK303.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 16:56 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1856
Misc Info : 2ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:43 target Quant Type: ISTD
Cal Date : 03-NOV-2004 16:56 Cal File: UK303.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	6.035	6.043	(0.609)	16245	2.00000	1.6389(aQ)
	2 Pyridine	79	6.198	6.103	(0.625)	12090	2.00000	0.3780(aQ)
$	3 2-Fluorophenol	112	7.836	7.843	(0.790)	65487	2.00000	1.8423(a)
$	4 Phenol-d5	99	9.177	9.215	(0.926)	76477	2.00000	1.8842(a)
	5 Phenol	94	9.208	9.246	(0.929)	133793	2.00000	3.2923(a)
	6 Aniline	66	9.351	9.379	(0.943)	35327	2.00000	2.3162(aQ)
	7 bis(2-Chloroethyl)ether	63	9.403	9.430	(0.948)	52128	2.00000	2.2010(aQ)
	8 2-Chlorophenol	128	9.556	9.573	(0.964)	72565	2.00000	1.9650(aQ)
	9 1,3-Dichlorobenzene	146	9.822	9.839	(0.991)	75182	2.00000	2.1133(aQ)
*	10 1,4-Dichlorobenzene-d4	152	9.914	9.932	(1.000)	967631	40.0000	
	11 1,4-Dichlorobenzene	146	9.945	9.962	(1.003)	76702	2.00000	2.1428(aQ)
	12 Benzyl alcohol	108	10.099	10.137	(1.019)	44286	2.00000	1.8194(aQ)
	13 1,2-Dichlorobenzene	146	10.222	10.239	(1.031)	78198	2.00000	2.2980(aQ)
	14 2-Methylphenol	107	10.242	10.280	(1.033)	54630	2.00000	2.2417(aQ)
	15 bis(2-Chloroisopropyl) ether	45	10.314	10.331	(1.040)	114050	2.00000	2.4572(a)
	16 4-Methylphenol	107	10.508	10.557	(1.060)	78559	2.00000	2.0411(aQ)
	17 N-Nitroso-di-n-propylamine	70	10.549	10.618	(1.064)	42749	2.00000	2.0030(aQ)
	18 Hexachloroethane	117	10.826	10.843	(1.092)	30278	2.00000	1.9814(aQ)
$	19 Nitrobenzene-d5	82	10.887	10.925	(0.887)	68679	2.00000	2.1013(a)
	20 Nitrobenzene	77	10.928	10.956	(0.891)	65606	2.00000	2.1869(aQ)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK303.D
Report Date: 04-Nov-2004 08:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	11.337	11.406	(0.924)	133199	2.00000	1.9515(a)
	22 2,4-Dimethylphenol	122	11.511	11.550	(0.938)	63910	2.00000	2.2078(aQ)
	23 2-Nitrophenol	139	11.522	11.539	(0.939)	37282	2.00000	1.6541(aQ)
	24 Benzoic acid	122	11.849	11.806	(0.966)	3821	2.00000	19.8958(Q)
	25 bis(2-Chloroethoxy)methane	93	11.696	11.734	(0.953)	97562	2.00000	2.2898(aQ)
	26 2,4-Dichlorophenol	162	11.952	11.990	(0.974)	46175	2.00000	1.7630(aQ)
	27 1,2,4-Trichlorobenzene	180	12.136	12.164	(0.989)	53929	2.00000	2.0521(aQ)
*	28 Naphthalene-d8	136	12.269	12.287	(1.000)	3902531	40.0000	
	29 Naphthalene	128	12.310	12.338	(1.003)	212900	2.00000	2.3160(a)
	30 4-Chloroaniline	127	12.382	12.410	(1.009)	89751	2.00000	2.0553(aQ)
	31 Hexachlorobutadiene	225	12.515	12.532	(1.020)	24981	2.00000	2.0623(aQ)
	32 4-Chloro-3-methylphenol	107	13.272	13.300	(1.082)	53256	2.00000	2.0592(aQ)
	33 2-Methylnaphthalene	142	13.661	13.689	(1.113)	136133	2.00000	2.2171(aQ)
	34 Hexachlorocyclopentadiene	237	13.979	13.986	(0.884)	4727	2.00000	6.1384(Q)
	35 2,4,6-Trichlorophenol	196	14.214	14.242	(0.899)	23286	2.00000	1.2735(aQ)
	36 2,4,5-Trichlorophenol	196	14.286	14.314	(0.904)	28764	2.00000	1.5162(aQ)
$	37 2-Fluorobiphenyl	172	14.378	14.406	(0.909)	123119	2.00000	2.1631(a)
	38 2-Chloronaphthalene	162	14.665	14.692	(0.927)	109523	2.00000	2.0531(aQ)
	39 2-Nitroaniline	65	14.849	14.897	(0.939)	28812	2.00000	1.7794(aQ)
	40 Dimethylphthalate	163	15.166	15.215	(0.959)	138292	2.00000	2.0878(a)
	41 2,6-Dinitrotoluene	165	15.320	15.378	(0.969)	27402	2.00000	1.5172(aQ)
	42 Acenaphthylene	152	15.525	15.552	(0.982)	179762	2.00000	2.0520(a)
	43 3-Nitroaniline	138	15.688	15.737	(0.992)	31716	2.00000	1.5357(aQ)
*	44 Acenaphthene-d10	164	15.811	15.829	(1.000)	2061424	40.0000	
	45 Acenaphthene	154	15.873	15.911	(1.004)	106826	2.00000	1.9817(aQ)
	46 2,4-Dinitrotoluene	165	16.159	16.207	(1.022)	31703	2.00000	1.4952(aQ)
	49 Dibenzofuran	168	16.221	16.259	(1.026)	161567	2.00000	2.2296(aQ)
	50 Diethylphthalate	149	16.599	16.658	(1.050)	141642	2.00000	2.2076(a)
	51 4-Chlorophenyl-phenylether	204	16.886	16.924	(1.068)	57577	2.00000	2.0563(aQ)
	52 Fluorene	166	16.927	16.965	(1.071)	127580	2.00000	2.1727(aQ)
	53 4-Nitroaniline	138	16.948	17.037	(1.072)	29046	2.00000	5.4266(aQ)
	55 N-Nitrosodiphenylamine	169	17.132	17.180	(0.907)	79669	2.00000	2.0031(aQ)
	56 Azobenzene	77	17.224	17.251	(0.912)	144937	2.00000	2.2670(a)
$	57 2,4,6-Tribromophenol	330	17.429	17.466	(1.102)	9555	2.00000	0.9580(a)
	58 4-Bromophenyl-phenylether	248	17.910	17.938	(0.948)	27932	2.00000	1.9636(aQ)
	59 Hexachlorobenzene	284	18.084	18.122	(0.957)	36966	2.00000	2.3707(aQ)
*	61 Phenanthrene-d10	188	18.893	18.910	(1.000)	2875420	40.0000	
	62 Phenanthrene	178	18.934	18.972	(1.002)	157538	2.00000	2.1467(a)
	63 Anthracene	178	19.036	19.074	(1.008)	157151	2.00000	2.1357(a)
	64 Carbazole	167	19.353	19.391	(1.024)	135982	2.00000	2.2819(a)
	65 Di-n-butylphthalate	149	19.968	19.995	(1.057)	251972	2.00000	2.2829(a)
	66 Fluoranthene	202	21.411	21.439	(1.133)	164656	2.00000	2.2111(a)
	67 Benzidine	184	21.636	21.654	(0.883)	9308	2.00000	3.0307(a)
	68 Pyrene	202	21.892	21.930	(0.894)	154408	2.00000	2.0832(a)
$	69 Terphenyl-d14	244	22.148	22.176	(0.904)	95434	2.00000	2.0507(a)
	70 Butylbenzylphthalate	149	23.131	23.149	(0.944)	86866	2.00000	1.8903(aQ)
	71 bis(2-Ethylhexyl)phthalate	149	24.318	24.336	(0.993)	115329	2.00000	1.9281(aQ)
	72 3,3'-Dichlorobenzidine	252	24.359	24.397	(0.995)	23786	2.00000	1.7558(aQ)
	73 Benzo(a)anthracene	228	24.451	24.490	(0.998)	106510	2.00000	2.1069(a)
*	74 Chrysene-d12	240	24.492	24.520	(1.000)	1585750	40.0000	
	75 Chrysene	228	24.544	24.582	(1.002)	96684	2.00000	2.0750(a)
	76 Di-n-octylphthalate	149	25.690	25.718	(0.933)	166029	2.00000	1.8579(a)
	77 Benzo(b)fluoranthene	252	26.745	26.783	(0.971)	70437	2.00000	2.0287(aH)
	78 Benzo(k)fluoranthene	252	26.796	26.844	(0.973)	70453	2.00000	2.0514(aA)

11/4/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK303.D
Report Date: 04-Nov-2004 08:43

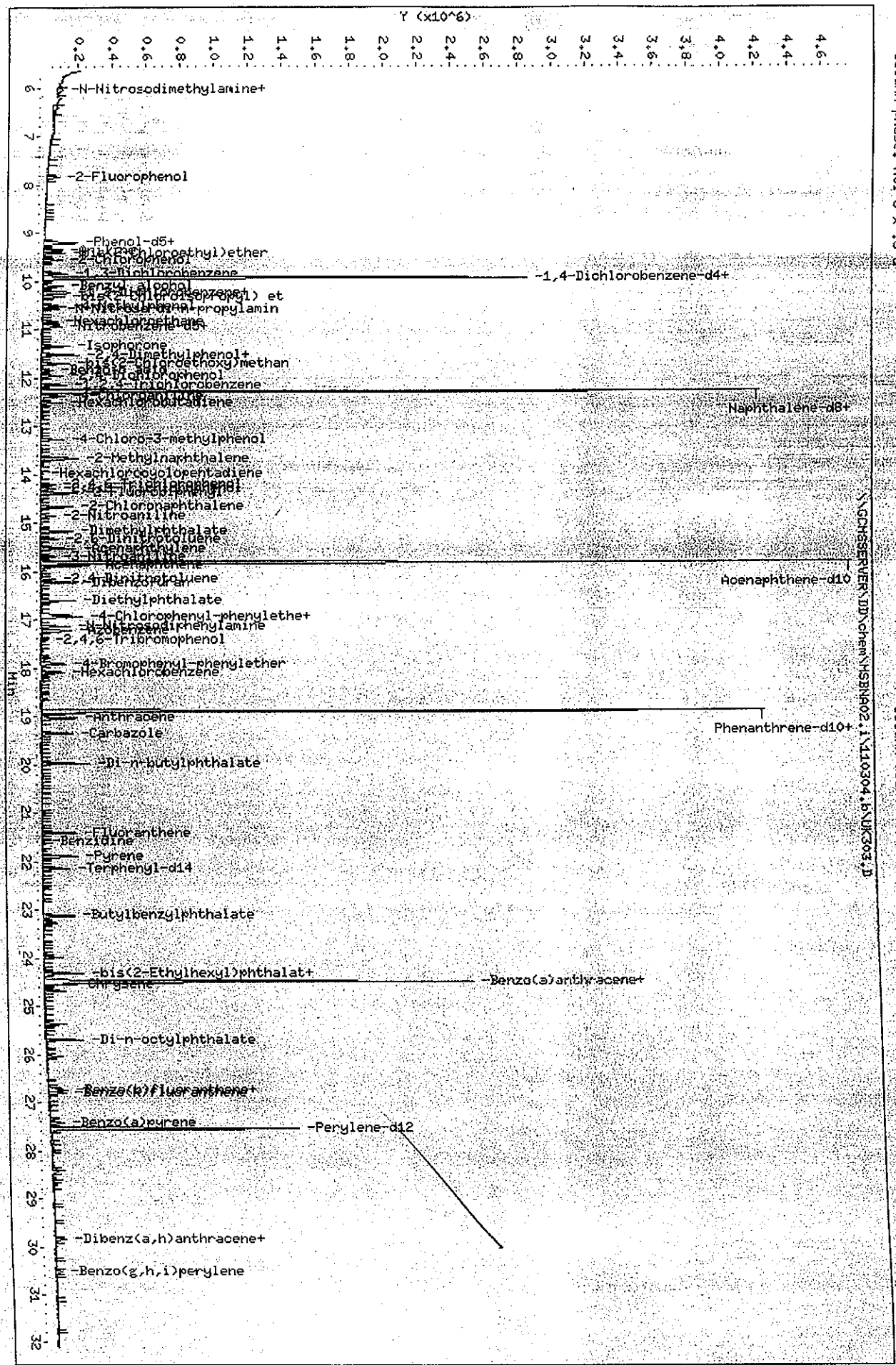
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
79 Benzo(a)pyrene	252	27.420	27.458	(0.996)	54647	2.00000	2.0356(a)
* 80 Perylene-d12	264	27.543	27.561	(1.000)	879279	40.0000	
81 Dibenz(a,h)anthracene	278	29.836	29.885	(1.083)	25923	2.00000	1.7377(aQ)
82 Indeno(1,2,3-cd)pyrene	276	29.836	29.885	(1.083)	34648	2.00000	1.8649(aQ)
83 Benzo(g,h,i)perylene	276	30.512	30.571	(1.108)	28422	2.00000	1.9548(aQ)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK303.D
Date : 03-NOV-2004 16:56
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04US1856
Volume Injected (uL): 1.0
Column phase: Rtl 5 x .5 G

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK304.D
Report Date: 04-Nov-2004 08:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK304.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 17:41 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1908
Misc Info : 5ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:44 target Quant Type: ISTD
Cal Date : 03-NOV-2004 17:41 Cal File: UK304.D
Als bottle: 4 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 N-Nitrosodimethylamine	42	6.041	6.042	(0.609)	48239	100.000	5.3962(Q)
2 Pyridine	79	6.133	6.103	(0.618)	139875	100.000	4.8952(aQM)
$ 3 2-Fluorophenol	112	7.832	7.843	(0.789)	171331	100.000	5.3722
$ 4 Phenol-d5	99	9.184	9.215	(0.926)	200404	100.000	5.3596
5 Phenol	94	9.204	9.246	(0.928)	235783	100.000	6.2153
6 Aniline	66	9.347	9.379	(0.942)	77389	100.000	5.5968(Q)
7 bis(2-Chloroethyl)ether	63	9.489	9.430	(0.946)	134680	100.000	6.2951(Q)
8 2-Chlorophenol	128	9.562	9.573	(0.964)	175780	100.000	5.3035(Q)
9 1,3-Dichlorobenzene	146	9.828	9.839	(0.991)	188425	100.000	5.8851(Q)
* 10 1,4-Dichlorobenzene-d4	152	9.921	9.932	(1.000)	999935	40.0000	
11 1,4-Dichlorobenzene	146	9.951	9.962	(1.003)	193651	100.000	6.0189(Q)
12 Benzyl alcohol	108	10.105	10.137	(1.019)	109627	100.000	5.0325(Q)
13 1,2-Dichlorobenzene	146	10.228	10.239	(1.031)	179069	100.000	5.8618(Q)
14 2-Methylphenol	107	10.248	10.280	(1.033)	125613	100.000	5.7176(Q)
15 bis(2-Chloroisopropyl) ether	45	10.320	10.331	(1.040)	272164	100.000	6.4931
16 4-Methylphenol	107	10.504	10.557	(1.059)	189071	100.000	5.4749(Q)
17 N-Nitroso-di-n-propylamine	70	10.555	10.618	(1.064)	104587	100.000	5.4390(Q)
18 Hexachloroethane	117	10.832	10.843	(1.092)	73966	100.000	5.3943(Q)
$ 19 Nitrobenzene-d5	82	10.893	10.925	(0.887)	153683	100.000	5.3355
20 Nitrobenzene	77	10.934	10.956	(0.891)	154956	100.000	5.8644(Q)

11/4/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK304.D
Report Date: 04-Nov-2004 08:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	11.344	11.406	(0.924)	320738	100.000	5.3203
	22 2,4-Dimethylphenol	122	11.518	11.550	(0.938)	146207	100.000	5.7257(Q)
	23 2-Nitrophenol	139	11.528	11.539	(0.939)	90040	100.000	4.5724(aQ)
	25 bis(2-Chloroethoxy)methane	93	11.702	11.734	(0.953)	225291	100.000	5.9659(Q)
	26 2,4-Dichlorophenol	162	11.958	11.990	(0.974)	111883	100.000	4.8706(aQ)
	27 1,2,4-Trichlorobenzene	180	12.142	12.164	(0.989)	134573	100.000	5.8155(Q)
*	28 Naphthalene-d8	136	12.275	12.287	(1.000)	3946633	40.0000	
	29 Naphthalene	128	12.316	12.338	(1.003)	484860	100.000	5.8564
	30 4-Chloroaniline	127	12.378	12.410	(1.008)	205183	100.000	5.3242(Q)
	31 Hexachlorobutadiene	225	12.521	12.532	(1.020)	60346	100.000	5.6610(Q)
	32 4-Chloro-3-methylphenol	107	13.278	13.300	(1.082)	118789	100.000	5.2140(Q)
	33 2-Methylnaphthalene	142	13.667	13.689	(1.113)	304713	100.000	5.5100(Q)
	34 Hexachlorocyclopentadiene	237	13.985	13.986	(0.884)	14746	100.000	34.6207(Q)
	35 2,4,6-Trichlorophenol	196	14.220	14.242	(0.899)	59551	100.000	4.0389(aQ)
	36 2,4,5-Trichlorophenol	196	14.292	14.314	(0.904)	70522	100.000	4.6215(aQ)
$	37 2-Fluorobiphenyl	172	14.384	14.406	(0.909)	274862	100.000	5.9427
	38 2-Chloronaphthalene	162	14.671	14.692	(0.927)	253823	100.000	5.8536(Q)
	39 2-Nitroaniline	65	14.855	14.897	(0.939)	66755	100.000	5.0714(aQ)
	40 Dimethylphthalate	163	15.172	15.215	(0.959)	308671	100.000	5.7111
	41 2,6-Dinitrotoluene	165	15.326	15.378	(0.969)	66105	100.000	4.5172(aQ)
	42 Acenaphthylene	152	15.531	15.552	(0.982)	414562	100.000	5.7043
	43 3-Nitroaniline	138	15.694	15.737	(0.992)	79482	100.000	4.7547(aQ)
*	44 Acenaphthene-d10	164	15.817	15.829	(1.000)	1922833	40.0000	
	45 Acenaphthene	154	15.879	15.911	(1.004)	243783	100.000	5.4826(Q)
	47 4-Nitrophenol	109	15.971	16.023	(1.010)	6256	100.000	44.6249(Q)
	48 2,4-Dinitrotoluene	165	16.165	16.207	(1.022)	77893	100.000	4.5512(aQ)
	49 Dibenzofuran	168	16.227	16.259	(1.026)	353753	100.000	5.9866(Q)
	50 Diethylphthalate	149	16.606	16.658	(1.050)	312929	100.000	5.9759
	51 4-Chlorophenyl-phenylether	204	16.892	16.924	(1.068)	125319	100.000	5.5108(Q)
	52 Fluorene	166	16.933	16.965	(1.071)	271719	100.000	5.5725(Q)
	53 4-Nitroaniline	138	16.954	17.037	(1.072)	57273	100.000	44.4450(Q)
	54 4,6-Dinitro-2-methylphenol	198	17.015	17.056	(0.900)	3432	100.000	42.8845(Q)
	55 N-Nitrosodiphenylamine	169	17.138	17.180	(0.907)	173710	100.000	5.3535(Q)
	56 Azobenzene	77	17.230	17.251	(0.912)	303421	100.000	5.7991
$	57 2,4,6-Tribromophenol	330	17.435	17.466	(1.202)	22680	100.000	3.5745(a)
	58 4-Bromophenyl-phenylether	248	17.916	17.938	(0.948)	62684	100.000	5.3876(Q)
	59 Hexachlorobenzene	284	18.090	18.122	(0.957)	71459	100.000	5.5980(Q)
	60 Pentachlorophenol	266	18.489	18.501	(0.978)	3579	100.000	63.7788
*	61 Phenanthrene-d10	188	18.899	18.910	(1.000)	2683905	40.0000	
	62 Phenanthrene	178	18.940	18.972	(1.002)	338634	100.000	5.5491
	63 Anthracene	178	19.012	19.074	(1.008)	338938	100.000	5.5250
	64 Carbazole	167	19.359	19.391	(1.024)	276870	100.000	5.7245
	65 Di-n-butylphthalate	149	19.974	19.995	(1.057)	540034	100.000	6.0638
	66 Fluoranthene	202	21.407	21.439	(1.133)	331135	100.000	5.6831
	67 Benzidine	184	21.642	21.654	(0.884)	12308	100.000	4.6847(a)
	68 Pyrene	202	21.898	21.930	(0.894)	336752	100.000	5.5554
$	69 Terphenyl-d14	244	22.144	22.176	(0.904)	210412	100.000	5.6268
	70 Butylbenzylphthalate	149	23.127	23.149	(0.944)	191809	100.000	5.2076(Q)
	71 bis(2-Ethylhexyl)phthalate	149	24.314	24.336	(0.993)	260021	100.000	5.4130(Q)
	72 3,3'-Dichlorobenzidine	252	24.365	24.397	(0.995)	47187	100.000	4.4075(aQ)
	73 Benzo(a)anthracene	228	24.458	24.490	(0.999)	219427	100.000	5.3182
*	74 Chrysene-d12	240	24.488	24.520	(1.000)	1456263	40.0000	
	75 Chrysene	228	24.550	24.582	(1.002)	203165	100.000	5.3225
	76 Di-n-octylphthalate	149	25.696	25.718	(0.933)	366695	100.000	5.1174

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK304.D
Report Date: 04-Nov-2004 08:44

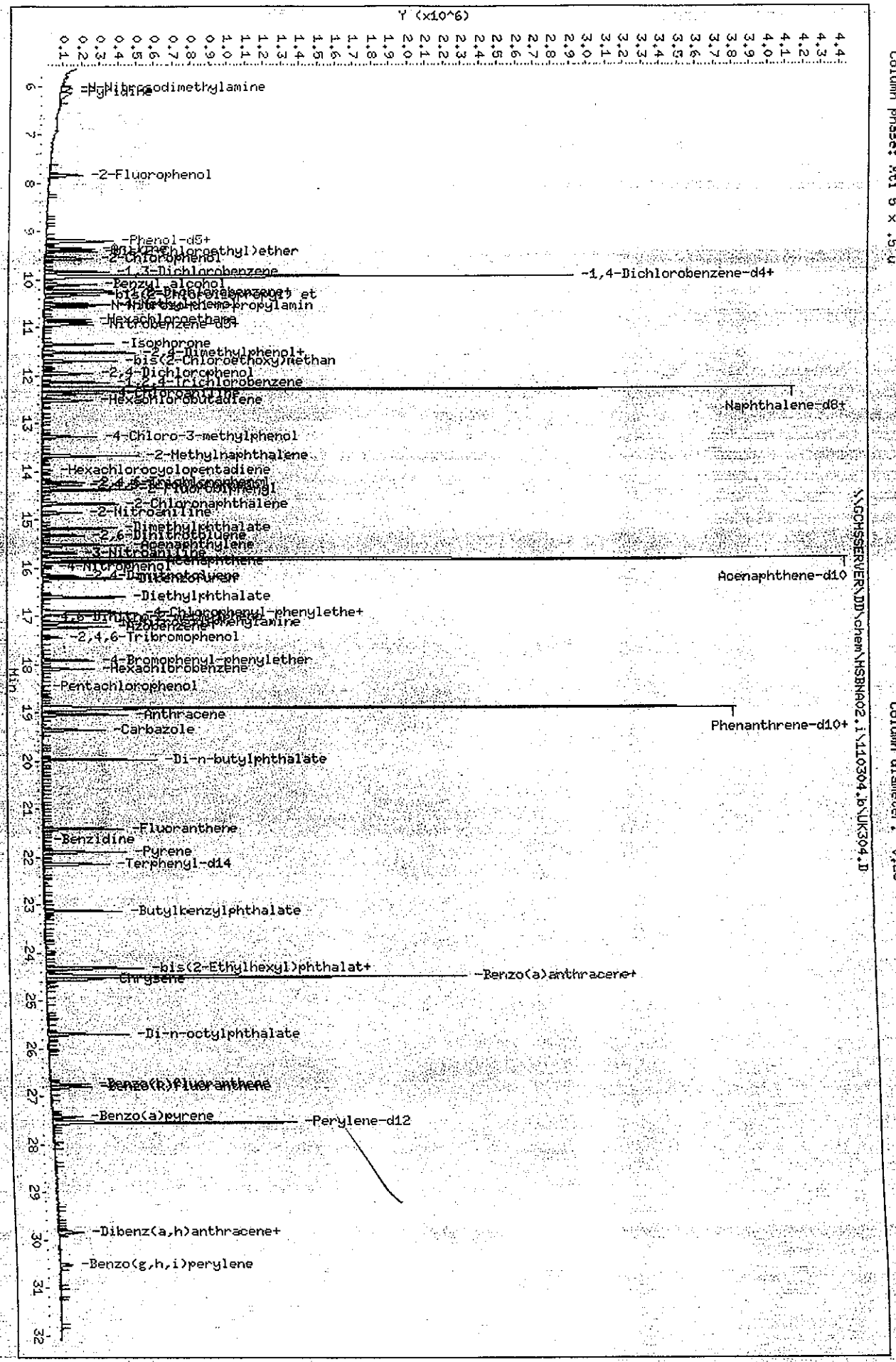
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
77 Benzo(b)fluoranthene	252	26.751	26.783	(0.971)	133116	100.000	4.6813(a)
78 Benzo(k)fluoranthene	252	26.802	26.844	(0.973)	146986	100.000	5.2717(A)
79 Benzo(a)pyrene	252	27.426	27.458	(0.996)	108832	100.000	4.9668(a)
* 80 Perylene-d12	264	27.539	27.561	(1.000)	807790	40.0000	
81 Dibenz(a,h)anthracene	278	29.853	29.885	(1.084)	55228	100.000	4.5739(aQ)
82 Indeno(1,2,3-cd)pyrene	276	29.853	29.885	(1.084)	70199	100.000	4.6493(aQ)
83 Benzo(g,h,i)perylene	276	30.528	30.571	(1.109)	59716	100.000	5.0465(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK304.D
Date : 03-NOV-2004 17:41
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1908
Volume Injected (uL): 1.0
Column phase: Uti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK305.D
Report Date: 04-Nov-2004 08:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK305.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 18:27 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1857
Misc Info : 10ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:44 target Quant Type: ISTD
Cal Date : 03-NOV-2004 18:27 Cal File: UK305.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 N-Nitrosodimethylamine	42	6.031	6.042	(0.608)	106696	10.0000	12.7406(Q)
2 Pyridine	79	6.112	6.103	(0.616)	290649	10.0000	10.8642(Q)
$ 3 2-Fluorophenol	112	7.843	7.848	(0.791)	359193	10.0000	12.0293
$ 4 Phenol-d5	99	9.196	9.215	(0.927)	414548	10.0000	11.8412
5 Phenol	94	9.212	9.246	(0.929)	464894	10.0000	13.0885
6 Aniline	66	9.358	9.379	(0.943)	164735	10.0000	12.7246(Q)
7 bis(2-Chloroethyl)ether	63	9.409	9.430	(0.948)	261909	10.0000	13.0750(Q)
8 2-Chlorophenol	128	9.562	9.573	(0.964)	369620	10.0000	11.9109(Q)
9 1,3-Dichlorobenzene	146	9.839	9.839	(0.992)	378085	10.0000	12.6124(Q)
* 10 1,4-Dichlorobenzene-d4	152	9.921	9.932	(1.000)	936275	40.0000	
11 1,4-Dichlorobenzene	146	9.951	9.962	(1.003)	380926	10.0000	12.6454(Q)
12 Benzyl alcohol	108	10.105	10.137	(1.019)	226681	10.0000	11.1142(Q)
13 1,2-Dichlorobenzene	146	10.228	10.239	(1.031)	367481	10.0000	12.8481(Q)
14 2-Methylphenol	107	10.259	10.280	(1.034)	257829	10.0000	12.5346(Q)
15 bis(2-Chloroisopropyl) ether	45	10.320	10.331	(1.040)	542481	10.0000	13.8230
16 4-Methylphenol	107	10.514	10.557	(1.060)	393766	10.0000	12.1783(Q)
17 N-Nitroso-di-n-propylamine	70	10.566	10.618	(1.065)	221863	10.0000	12.3233(QH)
18 Hexachloroethane	117	10.842	10.843	(1.093)	156087	10.0000	12.1582(Q)
$ 19 Nitrobenzene-d5	82	10.903	10.925	(0.888)	320375	10.0000	12.1324
20 Nitrobenzene	77	10.934	10.956	(0.891)	306945	10.0000	12.6711(Q)

11/9/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK305.D
Report Date: 04-Nov-2004 08:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	11.344	11.406	(0.924)	687205	10.0000	12.4341(H)
	22 2,4-Dimethylphenol	122	11.518	11.550	(0.938)	290596	10.0000	12.4134(Q)
	23 2-Nitrophenol	139	11.528	11.539	(0.939)	197789	10.0000	10.9560(Q)
	25 bis(2-Chloroethoxy)methane	93	11.712	11.734	(0.954)	459306	10.0000	13.2671(Q)
	26 2,4-Dichlorophenol	162	11.958	11.990	(0.974)	236643	10.0000	11.2372(Q)
	27 1,2,4-Trichlorobenzene	180	12.152	12.164	(0.990)	270042	10.0000	12.7293(Q)
*	28 Naphthalene-d8	136	12.275	12.287	(1.000)	3618146	40.0000	
	29 Naphthalene	128	12.316	12.338	(1.003)	990716	10.0000	13.0528
	30 4-Chloroaniline	127	12.388	12.410	(1.009)	431954	10.0000	12.2263(Q)
	31 Hexachlorobutadiene	225	12.521	12.532	(1.020)	123677	10.0000	12.6553(Q)
	32 4-Chloro-3-methylphenol	107	13.279	13.300	(1.082)	255241	10.0000	12.2205(Q)
	33 2-Methylnaphthalene	142	13.678	13.689	(1.114)	620750	10.0000	12.2439(Q)
	34 Hexachlorocyclopentadiene	237	13.985	13.986	(0.884)	45247	10.0000	37.1606(Q)
	35 2,4,6-Trichlorophenol	196	14.220	14.242	(0.899)	151182	10.0000	10.6061(Q)
	36 2,4,5-Trichlorophenol	196	14.292	14.314	(0.904)	158835	10.0000	10.7670(Q)
$	37 2-Fluorobiphenyl	172	14.394	14.406	(0.910)	564386	10.0000	12.6221
	38 2-Chloronaphthalene	162	14.671	14.692	(0.927)	525447	10.0000	12.5346(Q)
	39 2-Nitroaniline	65	14.865	14.897	(0.940)	146048	10.0000	11.4769(aQ)
	40 Dimethylphthalate	163	15.183	15.215	(0.960)	650862	10.0000	12.4566
	41 2,6-Dinitrotoluene	165	15.336	15.378	(0.970)	153641	10.0000	10.8600(Q)
	42 Acenaphthylene	152	15.531	15.552	(0.982)	866480	10.0000	12.3326
	43 3-Nitroaniline	138	15.695	15.737	(0.992)	166309	10.0000	10.2910(aQ)
*	44 Acenaphthene-d10	164	15.817	15.829	(1.000)	1858905	40.0000	
	45 Acenaphthene	154	15.889	15.911	(1.005)	503940	10.0000	11.7233(Q)
	46 2,4-Dinitrophenol	184	15.910	15.941	(1.006)	3297	10.0000	18.2165(aQ)
	47 4-Nitrophenol	109	15.971	16.023	(1.010)	19573	10.0000	44.7785(Q)
	48 2,4-Dinitrotoluene	165	16.176	16.207	(1.023)	172643	10.0000	10.4342(Q)
	49 Dibenzofuran	168	16.237	16.259	(1.027)	723329	10.0000	12.6620(Q)
	50 Diethylphthalate	149	16.616	16.658	(1.050)	664665	10.0000	13.1293
	51 4-Chlorophenyl-phenylether	204	16.903	16.924	(1.069)	270004	10.0000	12.2816(Q)
	52 Fluorene	166	16.944	16.965	(1.071)	569771	10.0000	12.0870(Q)
	53 4-Nitroaniline	138	16.964	17.037	(1.072)	119091	10.0000	44.6673(Q)
	54 4,6-Dinitro-2-methylphenol	198	17.015	17.056	(0.900)	22944	10.0000	43.3116(Q)
	55 N-Nitrosodiphenylamine	169	17.138	17.180	(0.907)	364675	10.0000	11.8154(Q)
	56 Azobenzene	77	17.230	17.251	(0.912)	649595	10.0000	13.0523
$	57 2,4,6-Tribromophenol	330	17.445	17.466	(1.103)	60268	10.0000	9.8253
	58 4-Bromophenyl-phenylether	248	17.916	17.938	(0.948)	132132	10.0000	11.9544(Q)
	59 Hexachlorobenzene	284	18.090	18.122	(0.957)	161558	10.0000	13.3056(Q)
	60 Pentachlorophenol	266	18.489	18.501	(0.978)	21052	10.0000	62.6394(Q)
*	61 Phenanthrene-d10	188	18.899	18.910	(1.000)	2552944	40.0000	
	62 Phenanthrene	178	18.950	18.972	(1.003)	715509	10.0000	12.3263
	63 Anthracene	178	19.052	19.074	(1.008)	729916	10.0000	12.5087
	64 Carbazole	167	19.360	19.391	(1.024)	553465	10.0000	12.0304
	65 Di-n-butylphthalate	149	19.984	19.995	(1.057)	1161939	10.0000	13.7163
	66 Fluoranthene	202	21.417	21.439	(1.133)	669758	10.0000	12.0844
	67 Benzidine	184	21.642	21.654	(0.883)	30661	10.0000	12.4188
	68 Pyrene	202	21.909	21.930	(0.894)	691528	10.0000	11.9427
$	69 Terphenyl-d14	244	22.154	22.176	(0.904)	433855	10.0000	12.1458
	70 Butylbenzylphthalate	149	23.137	23.149	(0.944)	424375	10.0000	12.0617(Q)
	71 bis(2-Ethylhexyl)phthalate	149	24.325	24.336	(0.993)	567400	10.0000	12.3654
	72 3,3'-Dichlorobenzidine	252	24.366	24.397	(0.995)	100684	10.0000	9.8451(aQ)
	73 Benzo(a)anthracene	228	24.468	24.490	(0.999)	457247	10.0000	11.6015
*	74 Chrysene-d12	240	24.499	24.520	(1.000)	1391083	40.0000	
	75 Chrysene	228	24.550	24.582	(1.002)	419451	10.0000	11.5037

11/4/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK305.D
Report Date: 04-Nov-2004 08:44

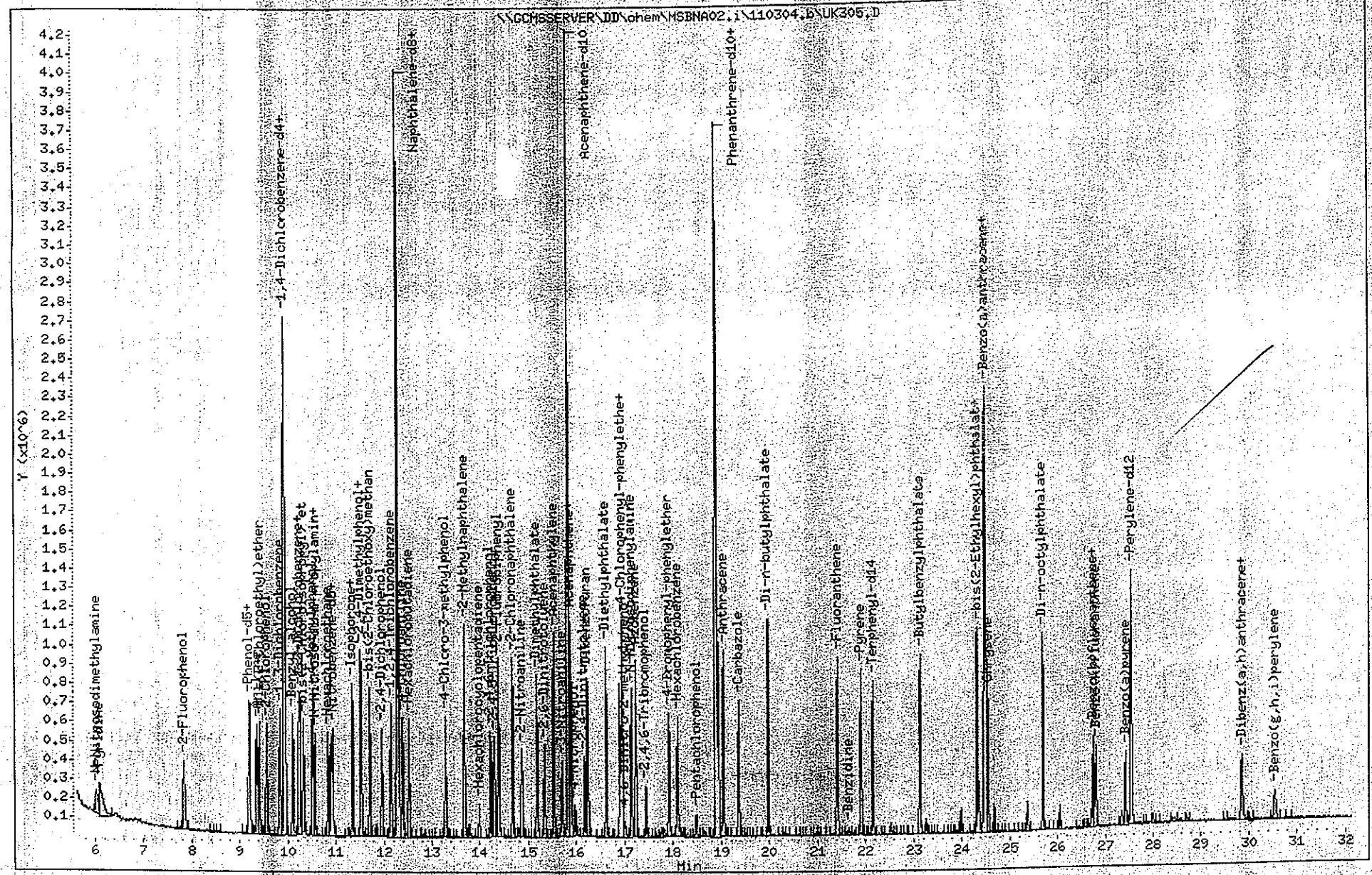
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
76 Di-n-octylphthalate	149	25.696	25.718	(0.933)	855193	10.0000	12.2871
77 Benzo(b)fluoranthene	252	26.751	26.783	(0.971)	299320	10.0000	10.8371(H)
78 Benzo(k)fluoranthene	252	26.812	26.844	(0.973)	302004	10.0000	11.1513(A)
79 Benzo(a)pyrene	252	27.427	27.458	(0.996)	234064	10.0000	10.9976
* 80 Perylene-d12	264	27.549	27.561	(1.000)	784624	40.0000	
81 Dibenz(a,h)anthracene	278	29.853	29.885	(1.084)	128516	10.0000	10.9579(Q)
82 Indeno(1,2,3-cd)pyrene	276	29.853	29.885	(1.084)	164948	10.0000	11.2472(Q)
83 Benzo(g,h,i)perylene	276	30.539	30.571	(1.109)	134983	10.0000	11.7440(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK305.D
Date : 03-NOV-2004 18:27
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1837
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



200

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK306.D
Report Date: 04-Nov-2004 08:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK306.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 19:12 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1858
Misc Info : 20ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:44 target Quant Type: ISTD
Cal Date : 03-NOV-2004 19:12 Cal File: UK306.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	6.037	6.042	(0.608)	231939	20.0000	24.0108(Q)
	2 Pyridine	79	6.099	6.103	(0.614)	717411	20.0000	23.2352(Q)
$	3 2-Fluorophenol	112	7.839	7.841	(0.790)	804860	20.0000	23.3550
$	4 Phenol-d5	99	9.191	9.215	(0.926)	940194	20.0000	23.2695
	5 Phenol	94	9.221	9.246	(0.929)	1038837	20.0000	25.3419
	6 Aniline	66	9.354	9.379	(0.942)	382247	20.0000	25.5829(Q)
	7 bis(2-Chloroethyl)ether	63	9.416	9.430	(0.948)	559052	20.0000	24.1820(Q)
	8 2-Chlorophenol	128	9.569	9.573	(0.964)	859685	20.0000	24.0037(Q)
	9 1,3-Dichlorobenzene	146	9.835	9.839	(0.991)	852212	20.0000	24.6325(Q)
*	10 1,4-Dichlorobenzene-d4	152	9.928	9.932	(1.000)	1080580	40.0000	
	11 1,4-Dichlorobenzene	146	9.958	9.962	(1.003)	857025	20.0000	24.6510(Q)
	12 Benzyl alcohol	108	10.112	10.137	(1.019)	540062	20.0000	22.9431(Q)
	13 1,2-Dichlorobenzene	146	10.235	10.239	(1.031)	797323	20.0000	24.1538(Q)
	14 2-Methylphenol	107	10.255	10.280	(1.033)	592646	20.0000	24.9644(Q)
	15 bis(2-Chloroisopropyl) ether	45	10.327	10.331	(1.040)	1154801	20.0000	25.4960
	16 4-Methylphenol	107	10.521	10.557	(1.060)	897368	20.0000	24.0473(Q)
	17 N-Nitroso-di-n-propylamine	70	10.573	10.618	(1.065)	501986	20.0000	24.1590(Q)
	18 Hexachloroethane	117	10.839	10.843	(1.092)	351967	20.0000	23.7548(Q)
$	19 Nitrobenzene-d5	82	10.900	10.925	(0.887)	735932	20.0000	23.5460
	20 Nitrobenzene	77	10.941	10.956	(0.891)	673325	20.0000	23.4839(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK306.D
Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	11.351	11.406	(0.924)	1568766	20.0000	23.9814(H)
22 2,4-Dimethylphenol	122	11.525	11.550	(0.938)	695420	20.0000	25.0980(Q)
23 2-Nitrophenol	139	11.525	11.539	(0.938)	482007	20.0000	22.5576(Q)
24 Benzoic acid	122	11.617	11.806	(0.946)	48634	20.0000	21.9434(MH)
25 bis(2-Chloroethoxy)methane	93	11.709	11.734	(0.953)	1029135	20.0000	25.1152(Q)
26 2,4-Dichlorophenol	162	11.965	11.990	(0.974)	581783	20.0000	23.3407(Q)
27 1,2,4-Trichlorobenzene	180	12.149	12.164	(0.989)	603621	20.0000	24.0397(Q)
* 28 Naphthalene-d8	136	12.282	12.287	(1.000)	4282493	40.0000	
29 Naphthalene	128	12.323	12.338	(1.003)	2217329	20.0000	24.6817
30 4-Chloroaniline	127	12.385	12.410	(1.008)	1000966	20.0000	23.9368(Q)
31 Hexachlorobutadiene	225	12.528	12.532	(1.020)	270306	20.0000	23.3684(Q)
32 4-Chloro-3-methylphenol	107	13.285	13.300	(1.082)	601187	20.0000	24.3185(Q)
33 2-Methylnaphthalene	142	13.674	13.689	(1.113)	1430892	20.0000	23.8452(Q)
34 Hexachlorocyclopentadiene	237	13.982	13.986	(0.884)	143937	20.0000	43.6636(Q)
35 2,4,6-Trichlorophenol	196	14.227	14.242	(0.899)	374899	20.0000	22.7664(Q)
36 2,4,5-Trichlorophenol	196	14.299	14.314	(0.904)	397986	20.0000	23.3527(Q)
S 37 2-Fluorobiphenyl	172	14.391	14.406	(0.909)	1245616	20.0000	24.1137
38 2-Chloronaphthalene	162	14.678	14.692	(0.928)	1174915	20.0000	22.2611(Q)
39 2-Nitroaniline	65	14.862	14.897	(0.939)	346812	20.0000	23.5911(aQ)
40 Dimethylphthalate	163	15.179	15.215	(0.959)	1501160	20.0000	24.8690
41 2,6-Dinitrotoluene	165	15.343	15.378	(0.970)	363121	20.0000	22.2176(Q)
42 Acenaphthylene	152	15.538	15.552	(0.982)	2007791	20.0000	24.7364
43 3-Nitroaniline	138	15.701	15.737	(0.992)	382995	20.0000	20.5144(aQ)
* 44 Acenaphthene-d10	164	15.824	15.829	(1.000)	2147511	40.0000	
45 Acenaphthene	154	15.886	15.911	(1.004)	1141834	20.0000	22.9931(Q)
46 2,4-Dinitrophenol	184	15.916	15.941	(1.006)	26328	20.0000	20.9270(aQ)
47 4-Nitrophenol	109	15.978	16.023	(1.010)	62143	20.0000	45.7118(Q)
48 2,4-Dinitrotoluene	165	16.172	16.207	(1.022)	442951	20.0000	23.1734(Q)
49 Dibenzofuran	168	16.234	16.259	(1.026)	1649213	20.0000	24.9899(Q)
50 Diethylphthalate	149	16.523	16.658	(1.050)	1473098	20.0000	25.1881
51 4-Chlorophenyl-phenylether	204	16.899	16.924	(1.068)	615722	20.0000	24.2434(Q)
52 Fluorene	166	16.940	16.965	(1.071)	1309991	20.0000	24.0552(Q)
53 4-Nitroaniline	138	16.971	17.037	(1.072)	291735	20.0000	45.5120(Q)
54 4,6-Dinitro-2-methylphenol	198	17.012	17.056	(0.900)	118120	20.0000	45.2199(Q)
55 N-Nitrosodiphenylamine	169	17.145	17.180	(0.907)	848482	20.0000	23.6253(Q)
56 Azobenzene	77	17.237	17.251	(0.912)	1450352	20.0000	25.0442
S 57 2,4,6-Tribromophenol	330	17.442	17.466	(1.102)	161184	20.0000	22.7460
58 4-Bromophenyl-phenylether	248	17.923	17.938	(0.948)	309532	20.0000	24.0666(Q)
59 Hexachlorobenzene	284	18.097	18.122	(0.957)	345453	20.0000	24.4503(Q)
60 Pentachlorophenol	266	18.486	18.501	(0.978)	115541	20.0000	59.9832(Q)
* 61 Phenanthrene-d10	188	18.906	18.910	(1.000)	2970656	40.0000	
62 Phenanthrene	178	18.947	18.972	(1.002)	1646673	20.0000	24.3789
63 Anthracene	178	19.049	19.074	(1.008)	1690508	20.0000	24.8970
64 Carbazole	167	19.366	19.391	(1.024)	1182929	20.0000	22.0973
65 Di-n-butylphthalate	149	19.981	19.995	(1.057)	2618685	20.0000	26.5661
66 Fluoranthene	202	21.424	21.439	(1.133)	1609606	20.0000	24.9585
67 Benzidine	184	21.649	21.654	(0.883)	130157	20.0000	43.9996
68 Pyrene	202	21.905	21.930	(0.894)	1597550	20.0000	23.0268
S 69 Terphenyl-d14	244	22.151	22.176	(0.904)	1029576	20.0000	24.0561
70 Butylbenzylphthalate	149	23.134	23.149	(0.944)	1001127	20.0000	23.7483(Q)
71 bis(2-Ethylhexyl)phthalate	149	24.321	24.336	(0.992)	1362674	20.0000	24.7855(Q)
72 3,3'-Dichlorobenzidine	252	24.372	24.397	(0.995)	226466	20.0000	18.4820(Q)
73 Benzo(a)anthracene	228	24.465	24.490	(0.998)	1122470	20.0000	23.7698
* 74 Chrysene-d12	240	24.506	24.520	(1.000)	1666740	40.0000	

11/6/07

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Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	24.557	24.582	(1.002)	1018566	20.0000	23.3148
76 Di-n-octylphthalate	149	25.703	25.718	(0.933)	2053958	20.0000	23.4547
77 Benzo(b)fluoranthene	252	26.758	26.783	(0.971)	785785	20.0000	22.6117
78 Benzo(k)fluoranthene	252	26.809	26.844	(0.973)	763749	20.0000	22.4140(AM)
79 Benzo(a)pyrene	252	27.433	27.458	(0.996)	593122	20.0000	22.1494(Q)
* 80 Perylene-d12	264	27.546	27.561	(1.000)	987206	40.0000	
81 Dibenz(a,h)anthracene	278	29.860	29.885	(1.084)	339030	20.0000	22.9753(Q)
82 Indeno(1,2,3-cd)pyrene	276	29.860	29.885	(1.084)	435907	20.0000	23.6236(Q)
83 Benzo(g,h,i)perylene	276	30.546	30.571	(1.109)	334457	20.0000	23.1276(Q)

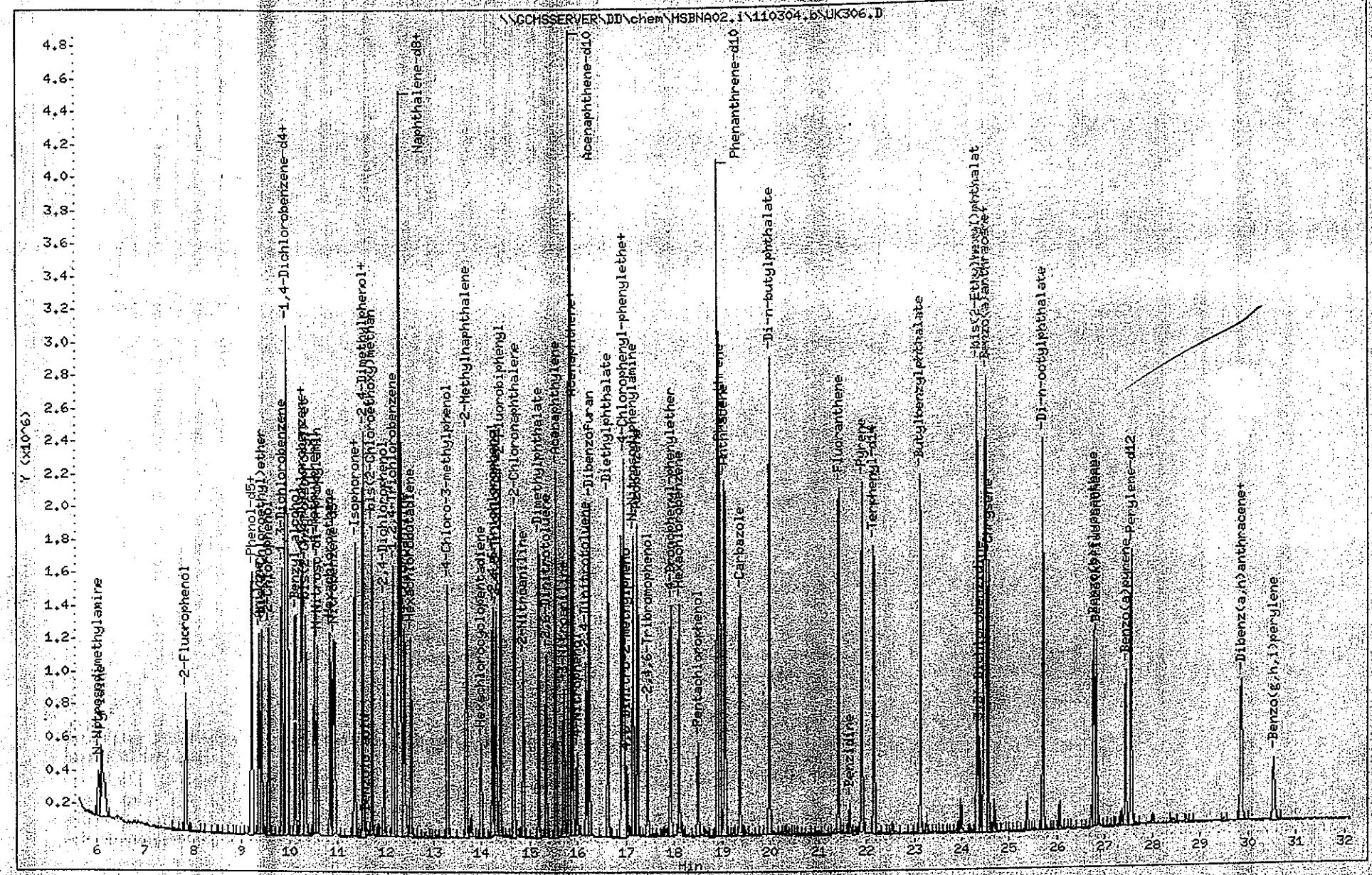
11/4/02

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ)
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK306.D
Date : 03-NOV-2004 19:12
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1858
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK307.D
Report Date: 04-Nov-2004 08:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK307.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 19:58 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1859
Misc Info : 50ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:44 target Quant Type: ISTD
Cal Date : 03-NOV-2004 19:58 Cal File: UK307.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	6.041	6.042	(0.609)	634338	50.0000	58.7009(Q)
	2 Pyridine	79	6.102	6.103	(0.615)	2035198	50.0000	58.9219(Q)
$	3 2-Fluorophenol	112	7.843	7.843	(0.791)	2246673	50.0000	58.2763
$	4 Phenol-d5	99	9.204	9.215	(0.928)	2650353	50.0000	58.6361
	5 Phenol	94	9.225	9.246	(0.930)	2586614	50.0000	56.4047
	6 Aniline	66	9.368	9.379	(0.944)	913330	50.0000	54.6419(Q)
	7 bis(2-Chloroethyl)ether	63	9.419	9.430	(0.949)	1530313	50.0000	59.1714(Q)
	8 2-Chlorophenol	128	9.573	9.573	(0.965)	2330663	50.0000	58.1711(Q)
	9 1,3-Dichlorobenzene	146	9.839	9.839	(0.992)	2306986	50.0000	59.6064(Q)
*	10 1,4-Dichlorobenzene-d4	152	9.921	9.932	(1.000)	1208831	40.0000	
	11 1,4-Dichlorobenzene	146	9.952	9.962	(1.003)	2342905	50.0000	60.2402(Q)
	12 Benzyl alcohol	108	10.116	10.137	(1.020)	1543624	50.0000	58.6195(Q)
	13 1,2-Dichlorobenzene	146	10.228	10.239	(1.031)	2184698	50.0000	59.1608(Q)
	14 2-Methylphenol	107	10.259	10.280	(1.034)	1549011	50.0000	58.3273(Q)
	15 bis(2-Chloroisopropyl) ether	45	10.330	10.331	(1.041)	2954129	50.0000	58.3023(Q)
	16 4-Methylphenol	107	10.535	10.557	(1.062)	2420345	50.0000	57.9783(Q)
	17 N-Nitroso-di-n-propylamine	70	10.586	10.618	(1.067)	1384138	50.0000	59.5469(Q)
	18 Hexachloroethane	117	10.842	10.843	(1.093)	996384	50.0000	60.1130(Q)
$	19 Nitrobenzene-d5	82	10.904	10.925	(0.888)	1969247	50.0000	56.8079
	20 Nitrobenzene	77	10.945	10.956	(0.891)	1869168	50.0000	58.7789(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK307.D
Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	11.375	11.406	(0.926)	3162731	50.0000	57.3751
22 2,4-Dimethylphenol	122	11.528	11.550	(0.938)	1741680	50.0000	56.6747(Q)
23 2-Nitrophenol	139	11.528	11.539	(0.938)	1387890	50.0000	58.5629(Q)
24 Benzoic acid	122	11.692	11.806	(0.952)	620938	50.0000	44.9329(QMH)
25 bis(2-Chloroethoxy)methane	93	11.723	11.734	(0.954)	2616123	50.0000	57.5641(Q)
26 2,4-Dichlorophenol	162	11.968	11.990	(0.974)	1624923	50.0000	58.7779(Q)
27 1,2,4-Trichlorobenzene	180	12.153	12.164	(0.989)	1622028	50.0000	58.2440(Q)
* 28 Naphthalene-d8	136	12.286	12.287	(1.000)	4749730	40.0000	
29 Naphthalene	128	12.327	12.338	(1.003)	5897835	50.0000	59.1024
30 4-Chloroaniline	127	12.388	12.410	(1.008)	2701830	50.0000	58.2651(Q)
31 Hexachlorobutadiene	225	12.521	12.532	(1.019)	759724	50.0000	59.2186(Q)
32 4-Chloro-3-methylphenol	107	13.289	13.300	(1.082)	1616456	50.0000	58.9548(Q)
33 2-Methylnaphthalene	142	13.678	13.689	(1.113)	3955053	50.0000	59.4257(Q)
34 Hexachlorocyclopentadiene	237	13.985	13.986	(0.884)	482778	50.0000	65.1832(Q)
35 2,4,6-Trichlorophenol	196	14.231	14.242	(0.899)	1074001	50.0000	60.4244(Q)
36 2,4,5-Trichlorophenol	196	14.303	14.314	(0.904)	1143340	50.0000	62.1545(Q)
S 37 2-Fluorobiphenyl	172	14.395	14.406	(0.909)	3426198	50.0000	61.4496
38 2-Chloronaphthalene	162	14.681	14.692	(0.928)	3158110	50.0000	60.4169(Q)
39 2-Nitroaniline	65	14.876	14.897	(0.940)	928244	50.0000	58.4982(Q)
40 Dimethylphthalate	163	15.193	15.215	(0.960)	3864617	50.0000	59.3152
41 2,6-Dinitrotoluene	165	15.357	15.378	(0.970)	1048617	50.0000	59.4416(Q)
42 Acenaphthylene	152	15.541	15.552	(0.982)	5303467	50.0000	60.5349
43 3-Nitroaniline	138	15.715	15.737	(0.993)	1188361	50.0000	58.9716(Q)
* 44 Acenaphthene-d10	164	15.828	15.829	(1.000)	2317974	40.0000	
45 Acenaphthene	154	15.900	15.911	(1.005)	3222489	50.0000	60.1192(Q)
46 2,4-Dinitrophenol	184	15.920	15.941	(1.006)	268127	50.0000	46.5660(Q)
47 4-Nitrophenol	109	16.002	16.023	(1.011)	212524	50.0000	54.7616(Q)
48 2,4-Dinitrotoluene	165	16.186	16.207	(1.023)	1229774	50.0000	59.6055(Q)
49 Dibenzofuran	168	16.248	16.259	(1.027)	4354910	50.0000	61.1356(Q)
50 Diethylphthalate	149	16.637	16.658	(1.051)	3813571	50.0000	60.4118
51 4-Chlorophenyl-phenylether	204	16.913	16.924	(1.069)	1672968	50.0000	61.0272(Q)
52 Fluorene	166	16.954	16.965	(1.071)	3450957	50.0000	58.7093(Q)
53 4-Nitroaniline	138	16.995	17.037	(1.074)	1003970	50.0000	54.4728(Q)
54 4,6-Dinitro-2-methylphenol	198	17.036	17.056	(0.901)	537428	50.0000	56.0699(Q)
55 N-Nitrosodiphenylamine	169	17.159	17.180	(0.907)	2305516	50.0000	58.7734(Q)
56 Azobenzene	77	17.241	17.251	(0.912)	3738113	50.0000	58.9378
S 57 2,4,6-Tribromophenol	330	17.456	17.446	(1.103)	487888	50.0000	63.7868
58 4-Bromophenyl-phenylether	248	17.927	17.938	(0.949)	941394	50.0000	60.1777(Q)
59 Hexachlorobenzene	284	18.101	18.122	(0.957)	910276	50.0000	59.5027(Q)
60 Pentachlorophenol	266	18.490	18.501	(0.978)	467484	50.0000	58.4816(Q)
* 61 Phenanthrene-d10	188	18.909	18.910	(1.000)	3244780	40.0000	
62 Phenanthrene	178	18.961	18.972	(1.003)	4891083	50.0000	59.5176
63 Anthracene	178	19.063	19.074	(1.008)	4315908	50.0000	58.1928
64 Carbazole	167	19.370	19.391	(1.024)	3379671	50.0000	57.7992
65 Di-n-butylphthalate	149	19.984	19.995	(1.057)	6411340	50.0000	59.5471
66 Fluoranthene	202	21.428	21.439	(1.133)	4182237	50.0000	59.3711
67 Benzidine	184	21.653	21.654	(0.883)	108929	50.0000	36.4694
68 Pyrene	202	21.919	21.930	(0.894)	4177240	50.0000	59.6312
S 69 Terphenyl-d14	244	22.165	22.176	(0.904)	2618859	50.0000	60.6016
70 Butylbenzylphthalate	149	23.148	23.149	(0.944)	2515681	50.0000	59.1023(Q)
71 bis(2-Ethylhexyl)phthalate	149	24.325	24.336	(0.992)	3312050	50.0000	59.6632(Q)
72 3,3'-Dichlorobenzidine	252	24.376	24.397	(0.995)	689761	50.0000	55.7505(Q)
73 Benzo(a)anthracene	228	24.478	24.490	(0.999)	2732712	50.0000	57.3124
* 74 Chrysene-d12	240	24.509	24.520	(1.000)	1682921	40.0000	

11/4/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK307.D
Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	24.571	24.582	(1.002)	2619024	50.0000	59.3726
76 Di-n-octylphthalate	149	25.707	25.718	(0.933)	4817782	50.0000	59.9219
77 Benzo(b)fluoranthene	252	26.772	26.783	(0.972)	1771075	50.0000	55.5095
78 Benzo(k)fluoranthene	252	26.823	26.844	(0.974)	1798989	50.0000	57.5039(A)
79 Benzo(a)pyrene	252	27.437	27.458	(0.996)	1426794	50.0000	58.0335(Q)
* 80 Perylene-d12	264	27.550	27.561	(1.000)	906376	40.0000	
81 Dibenz(a,h)anthracene	278	29.874	29.885	(1.084)	820537	50.0000	60.5651(Q)
82 Indeno(1,2,3-cd)pyrene	276	29.874	29.885	(1.084)	999047	50.0000	58.9710(Q)
83 Benzo(g,h,i)perylene	276	30.559	30.571	(1.109)	787034	50.0000	59.2767(Q)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK307.D
Date : 03-NOV-2004 19:58
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1859
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK308.D
Report Date: 04-Nov-2004 08:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK308.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 20:43 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1860
Misc Info : 80ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:44 target Quant Type: ISTD
Cal Date : 03-NOV-2004 20:43 Cal File: UK308.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
1 N-Nitrosodimethylamine	42	6.041	6.041	(0.608)	1246069	80.0000	89.1111(Q)
2 Pyridine	79	6.103	6.103	(0.635)	4737799	80.0000	93.1658(Q)
$ 3 2-Fluorophenol	112	7.843	7.845	(0.790)	9785200	80.0000	92.0807
$ 4 Phenol-d5	99	9.215	9.215	(0.928)	5550617	80.0000	91.2682
5 Phenol	94	9.246	9.246	(0.931)	5405531	80.0000	87.4458
6 Aniline	66	9.379	9.379	(0.944)	3972791	80.0000	87.5544(Q)
7 bis(2-Chloroethyl)ether	63	9.430	9.430	(0.949)	3053855	80.0000	87.5986(Q)
8 2-Chlorophenol	128	9.573	9.573	(0.964)	4933767	80.0000	91.3536(Q)
9 1,3-Dichlorobenzene	146	9.839	9.839	(0.991)	4688112	80.0000	89.8593(Q)
* 10 1,4-Dichlorobenzene-d4	152	9.932	9.932	(1.000)	1629479	40.0000	
11 1,4-Dichlorobenzene	146	9.962	9.962	(1.003)	4744912	80.0000	90.5060(Q)
12 Benzyl alcohol	108	10.136	10.136	(1.021)	3364734	80.0000	94.7913(Q)
13 1,2-Dichlorobenzene	146	10.239	10.239	(1.031)	4487252	80.0000	90.1447(Q)
14 2-Methylphenol	107	10.280	10.280	(1.035)	3240073	80.0000	90.5084(Q)
15 bis(2-Chloroisopropyl) ether	45	10.331	10.331	(1.040)	5847559	80.0000	85.6146(Q)
16 4-Methylphenol	107	10.556	10.556	(1.063)	5077584	80.0000	90.2323(Q)
17 N-Nitroso-di-n-propylamine	70	10.618	10.618	(1.069)	2862450	80.0000	91.3555(Q)
18 Hexachloroethane	117	10.843	10.843	(1.092)	2043688	80.0000	91.4689(Q)
$ 19 Nitrobenzene-d5	82	10.925	10.925	(0.889)	4317664	80.0000	94.9751
20 Nitrobenzene	77	10.955	10.955	(0.892)	3871752	80.0000	92.8397(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK308.D
Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	11.406	11.406	(0.928)	8764804	80.0000	92.1170
22 2,4-Dimethylphenol	122	11.549	11.549	(0.940)	3522982	80.0000	87.4146(Q)
23 2-Nitrophenol	139	11.539	11.539	(0.939)	3050123	80.0000	98.1381(Q)
24 Benzoic acid	122	11.805	11.805	(0.961)	2325933	80.0000	87.7501(Q)
25 bis(2-Chloroethoxy)methane	93	11.733	11.733	(0.955)	5398876	80.0000	90.5836(Q)
26 2,4-Dichlorophenol	162	11.989	11.989	(0.976)	3514233	80.0000	96.9314(Q)
27 1,2,4-Trichlorobenzene	180	12.163	12.163	(0.990)	3402793	80.0000	93.1710(Q)
* 28 Naphthalene-d8	136	12.286	12.286	(1.000)	6228972	40.0000	
29 Naphthalene	128	12.337	12.337	(1.004)	11164350	80.0000	85.3631
30 4-Chloroaniline	127	12.409	12.409	(1.010)	5707185	80.0000	93.8319(Q)
31 Hexachlorobutadiene	225	12.532	12.532	(1.020)	1576483	80.0000	93.7010(Q)
32 4-Chloro-3-methylphenol	107	13.300	13.300	(1.082)	3339508	80.0000	92.8733(Q)
33 2-Methylnaphthalene	142	13.689	13.689	(1.114)	7733632	80.0000	88.6050(Q)
34 Hexachlorocyclopentadiene	237	13.986	13.986	(0.884)	1154083	80.0000	92.1023(Q)
35 2,4,6-Trichlorophenol	196	14.242	14.242	(0.900)	2272813	80.0000	98.8707(Q)
36 2,4,5-Trichlorophenol	196	14.313	14.313	(0.904)	2293132	80.0000	96.3880(Q)
$ 37 2-Fluorobiphenyl	172	14.405	14.405	(0.910)	6609711	80.0000	91.6612
38 2-Chloronaphthalene	162	14.692	14.692	(0.928)	6223301	80.0000	92.0852(Q)
39 2-Nitroaniline	65	14.897	14.897	(0.941)	1925797	80.0000	93.8400(Q)
40 Dimethylphthalate	163	15.214	15.214	(0.961)	7709531	80.0000	91.4922
41 2,6-Dinitrotoluene	165	15.378	15.378	(0.972)	2257664	80.0000	98.9532(Q)
42 Acenaphthylene	152	15.552	15.552	(0.983)	10105602	80.0000	89.1876
43 3-Nitroaniline	138	15.736	15.736	(0.994)	2621311	80.0000	100.5795(Q)
* 44 Acenaphthene-d10	164	15.828	15.828	(1.000)	2997865	40.0000	
45 Acenaphthene	154	15.910	15.910	(1.005)	6516341	80.0000	93.9988(Q)
46 2,4-Dinitrophenol	184	15.941	15.941	(1.007)	879549	80.0000	85.9947(Q)
47 4-Nitrophenol	109	16.023	16.023	(1.012)	487292	80.0000	75.8915(Q)
48 2,4-Dinitrotoluene	165	16.207	16.207	(1.024)	2665181	80.0000	99.8813(Q)
49 Dibenzofuran	168	16.258	16.258	(1.027)	8431915	80.0000	91.5247(Q)
50 Diethylphthalate	149	16.658	16.658	(1.052)	7321303	80.0000	89.6768
51 4-Chlorophenyl-phenylether	204	16.924	16.924	(1.069)	3367543	80.0000	94.7009(Q)
52 Fluorene	166	16.965	16.965	(1.072)	7922347	80.0000	89.3477(Q)
53 4-Nitroaniline	138	17.036	17.036	(1.076)	2210343	80.0000	75.3328(Q)
54 4,6-Dinitro-2-methylphenol	198	17.057	17.057	(0.902)	1539479	80.0000	77.9843(Q)
55 N-Nitrosodiphenylamine	169	17.180	17.180	(0.909)	4611635	80.0000	91.8720(Q)
56 Azobenzene	77	17.251	17.251	(0.912)	7049857	80.0000	87.0981(Q)
$ 57 2,4,6-Tribromophenol	330	17.466	17.466	(1.103)	983536	80.0000	100.8407
58 4-Bromophenyl-phenylether	248	17.937	17.937	(0.949)	1659731	80.0000	92.3295(Q)
59 Hexachlorobenzene	284	18.121	18.121	(0.958)	1780241	80.0000	90.1507(Q)
60 Pentachlorophenol	266	18.500	18.500	(0.978)	1084367	80.0000	72.6337(Q)
* 61 Phenanthrene-d10	188	18.910	18.910	(1.000)	4152413	40.0000	
62 Phenanthrene	178	18.971	18.971	(1.003)	8078905	80.0000	85.5868
63 Anthracene	178	19.074	19.074	(1.009)	8252907	80.0000	86.9623
64 Carbazole	167	19.391	19.391	(1.026)	7148899	80.0000	95.5454
65 Di-n-butylphthalate	149	19.995	19.995	(1.057)	11441166	80.0000	83.0441
66 Fluoranthene	202	21.438	21.438	(1.134)	7740873	80.0000	85.8782
67 Benzidine	184	21.653	21.653	(0.883)	272774	80.0000	73.3244
68 Pyrene	202	21.930	21.930	(0.894)	7648650	80.0000	87.6656
$ 69 Terphenyl-d14	244	22.175	22.175	(0.904)	4899011	80.0000	91.0207
70 Butylbenzylphthalate	149	23.148	23.148	(0.944)	4945477	80.0000	93.2862(Q)
71 bis(2-Ethylhexyl)phthalate	149	24.336	24.336	(0.992)	6399237	80.0000	92.5546(Q)
72 3,3'-Dichlorobenzidine	252	24.397	24.397	(0.995)	1600560	80.0000	103.8681(Q)
73 Benzo(a)anthracene	228	24.489	24.489	(0.999)	5264957	80.0000	88.6563
* 74 Chrysene-d12	240	24.520	24.520	(1.000)	2096060	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK308.D
Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	24.581	24.581	(1.002)	4952721	80.0000	90.1469
76 Di-n-octylphthalate	149	25.718	25.718	(0.933)	8924170	80.0000	91.3729
77 Benzo(b)fluoranthene	252	26.782	26.782	(0.972)	3677094	80.0000	94.8738
78 Benzo(k)fluoranthene	252	26.844	26.844	(0.974)	8342076	80.0000	87.9420(AQ)
79 Benzo(a)pyrene	252	27.458	27.458	(0.996)	2737743	80.0000	91.6688(Q)
* 80 Perylene-d12	264	27.560	27.560	(1.000)	1101025	40.0000	
81 Dibenz(a,h)anthracene	278	29.884	29.884	(1.084)	1566565	80.0000	95.1883(Q)
82 Indeno(1,2,3-cd)pyrene	276	29.884	29.884	(1.084)	1899107	80.0000	92.2813(Q)
83 Benzo(g,h,i)perylene	276	30.570	30.570	(1.109)	1459740	80.0000	90.5061(Q)

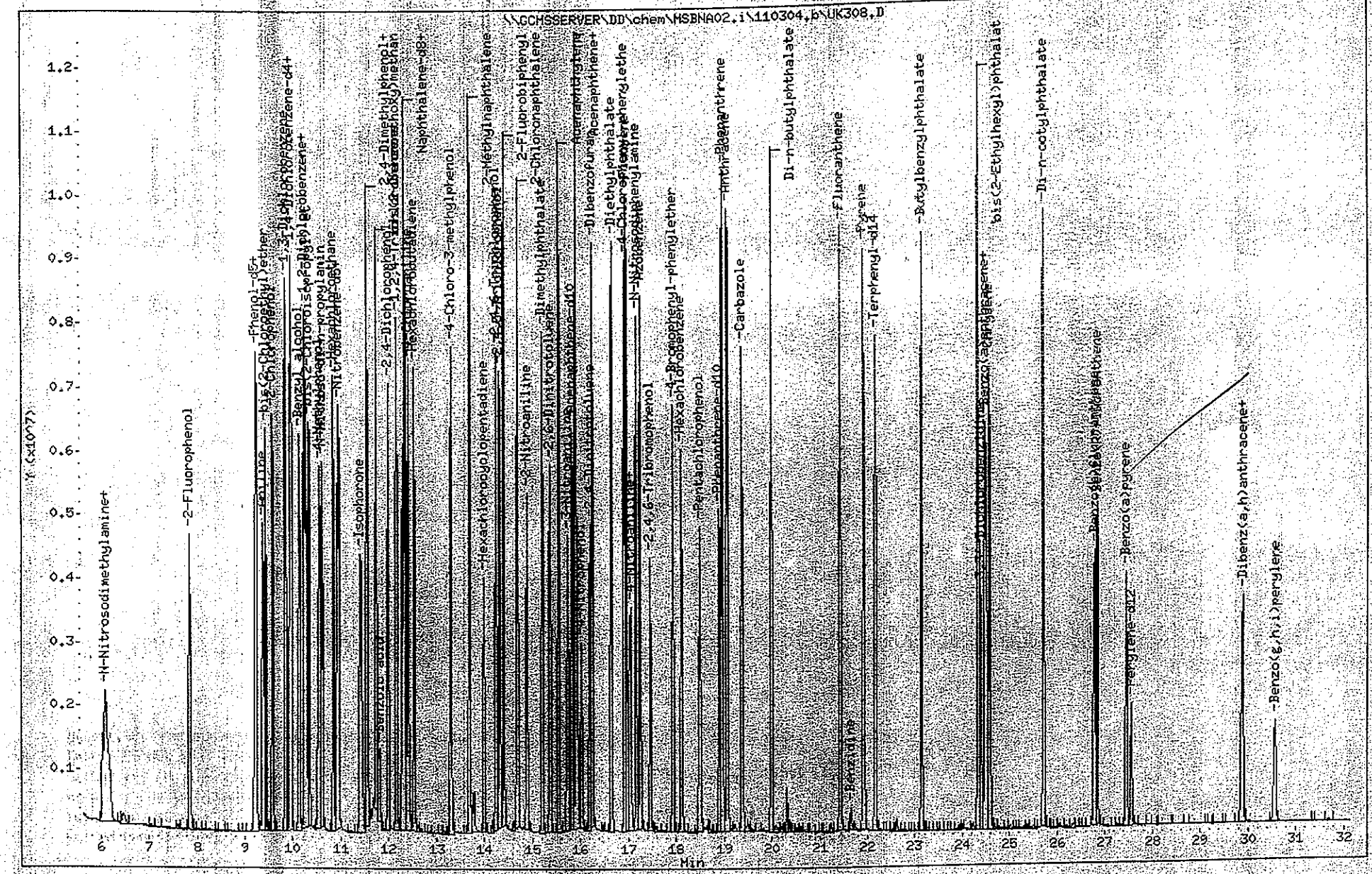
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK308.D
Date : 03-NOV-2004 20:43
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1860
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i

Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK309.D
Report Date: 04-Nov-2004 08:44

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK309.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 21:29 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1923
Misc Info : 100ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:44 target Quant Type: ISTD
Cal Date : 03-NOV-2004 21:29 Cal File: UK309.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	RLV RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	42	6.038	6.041	(0.609)	1089142	100.000	93.8214(Q)
	2 Pyridine	79	6.110	6.113	(0.615)	3620439	100.000	98.9915(Q)
$	3 2-Fluorophenol	112	7.850	7.853	(0.791)	4013533	100.000	96.9552
$	4 Phenol-d5	99	9.212	9.215	(0.928)	4667338	100.000	96.5373
	5 Phenol	94	9.243	9.246	(0.931)	4454065	100.000	91.4908
	6 Aniline	66	9.376	9.379	(0.944)	1615014	100.000	90.8286(Q)
	7 bis(2-Chloroethyl)ether	63	9.427	9.430	(0.949)	2582262	100.000	93.5367(Q)
	8 2-Chlorophenol	128	9.570	9.573	(0.964)	4161838	100.000	96.6707(Q)
	9 1,3-Dichlorobenzene	146	9.836	9.839	(0.991)	3961096	100.000	95.5086(Q)
*	10 1,4-Dichlorobenzene-d4	152	9.928	9.932	(1.000)	1128094	40.0000	
	11 1,4-Dichlorobenzene	146	9.959	9.962	(1.003)	4022596	100.000	96.3968(Q)
	12 Benzyl alcohol	108	10.133	10.136	(1.021)	2785011	100.000	98.1464(Q)
	13 1,2-Dichlorobenzene	146	10.236	10.239	(1.031)	3848954	100.000	97.0203(Q)
	14 2-Methylphenol	107	10.276	10.280	(1.035)	2681081	100.000	94.3671(Q)
	15 bis(2-Chloroisopropyl) ether	45	10.338	10.331	(1.041)	5084853	100.000	93.9718(Q)
	16 4-Methylphenol	107	10.553	10.556	(1.063)	4352490	100.000	97.0007(Q)
	17 N-Nitroso-di-n-propylamine	70	10.604	10.618	(1.068)	2350503	100.000	94.4686(Q)
	18 Hexachloroethane	117	10.840	10.843	(1.092)	1725853	100.000	96.8795(Q)
$	19 Nitrobenzene-d5	82	10.921	10.925	(0.889)	3511827	100.000	94.6468
	20 Nitrobenzene	77	10.952	10.955	(0.892)	3250532	100.000	95.4444(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK309.D
Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	11.403	11.406	(0.928)	7226013	100.000	93.2595
22 2,4-Dimethylphenol	122	11.546	11.549	(0.940)	3102046	100.000	94.3967(Q)
23 2-Nitrophenol	139	11.536	11.539	(0.939)	2538101	100.000	99.1948(Q)
24 Benzoic acid	122	11.792	11.805	(0.960)	1992072	100.000	100.0780(Q)
25 bis(2-Chloroethoxy)methane	93	11.730	11.733	(0.955)	4437383	100.000	91.7401(Q)
26 2,4-Dichlorophenol	162	11.986	11.989	(0.976)	2888427	100.000	97.1450(Q)
27 1,2,4-Trichlorobenzene	180	12.160	12.163	(0.990)	2851308	100.000	95.5732(Q)
* 28 Naphthalene-d8	136	12.283	12.286	(1.000)	4430353	40.0000	
29 Naphthalene	128	12.334	12.337	(1.004)	9678125	100.000	92.7416
30 4-Chloroaniline	127	12.406	12.409	(1.010)	4648779	100.000	93.7769(Q)
31 Hexachlorobutadiene	225	12.529	12.532	(1.020)	1316965	100.000	95.7716(Q)
32 4-Chloro-3-methylphenol	107	13.296	13.300	(1.083)	2782603	100.000	94.2768(Q)
33 2-Methylnaphthalene	142	13.685	13.689	(1.114)	6441245	100.000	92.4094(Q)
34 Hexachlorocyclopentadiene	237	13.993	13.986	(0.884)	923462	100.000	94.8385(Q)
35 2,4,6-Trichlorophenol	196	14.238	14.242	(0.900)	1856865	100.000	98.3223(Q)
36 2,4,5-Trichlorophenol	196	14.320	14.313	(0.905)	1966104	100.000	100.3398(Q)
S 37 2-Fluorobiphenyl	172	14.402	14.405	(0.910)	5605605	100.000	95.3516
38 2-Chloronaphthalene	162	14.689	14.692	(0.928)	5239649	100.000	95.0944(Q)
39 2-Nitroaniline	65	14.894	14.897	(0.941)	1577740	100.000	94.3389(Q)
40 Dimethylphthalate	163	15.211	15.214	(0.961)	6338872	100.000	92.6519
41 2,6-Dinitrotoluene	165	15.364	15.378	(0.971)	1787588	100.000	95.8296(Q)
42 Acenaphthylene	152	15.549	15.552	(0.983)	8464023	100.000	93.5430
43 3-Nitroaniline	138	15.733	15.736	(0.994)	2062457	100.000	96.6872(Q)
* 44 Acenaphthene-d10	164	15.825	15.828	(1.000)	2129234	40.0000	
45 Acenaphthene	154	15.907	15.910	(1.005)	5422178	100.000	97.3855(Q)
46 2,4-Dinitrophenol	184	15.938	15.941	(1.007)	696391	100.000	95.1202(Q)
47 4-Nitrophenol	109	16.020	16.023	(1.012)	394605	100.000	96.1712(Q)
48 2,4-Dinitrotoluene	165	16.204	16.207	(1.024)	2150064	100.000	98.1754(Q)
49 Dibenzofuran	168	16.255	16.258	(1.027)	6982059	100.000	93.2830(Q)
50 Diethylphthalate	149	16.654	16.658	(1.052)	6145259	100.000	92.7305
51 4-Chlorophenyl-phenylether	204	16.920	16.924	(1.069)	2756675	100.000	95.3167(Q)
52 Fluorene	166	16.961	16.965	(1.072)	5626034	100.000	92.7613(Q)
53 4-Nitroaniline	138	17.023	17.036	(1.076)	1861139	100.000	95.2498(Q)
54 4,6-Dinitro-2-methylphenol	198	17.054	17.057	(0.902)	1051175	100.000	93.2527(Q)
55 N-Nitrosodiphenylamine	169	17.166	17.180	(0.908)	3823702	100.000	92.8543(Q)
56 Azobenzene	77	17.248	17.251	(0.912)	6046509	100.000	91.3441(Q)
S 57 2,4,6-Tribromophenol	330	17.463	17.466	(1.104)	808362	100.000	99.2502
58 4-Bromophenyl-phenylether	248	17.934	17.937	(0.949)	1356418	100.000	92.0976(Q)
59 Hexachlorobenzene	284	18.118	18.121	(0.958)	1468412	100.000	90.9569(Q)
60 Pentachlorophenol	266	18.497	18.500	(0.978)	880078	100.000	94.3554(Q)
* 61 Phenanthrene-d10	188	18.907	18.910	(1.000)	2277133	40.0000	
62 Phenanthrene	178	18.968	18.971	(1.003)	7006632	100.000	92.2155
63 Anthracene	178	19.070	19.074	(1.009)	6865529	100.000	90.3837
64 Carbazole	167	19.388	19.391	(1.025)	5940955	100.000	96.2912
65 Di-n-butylphthalate	149	19.992	19.995	(1.057)	9892804	100.000	86.5687
66 Fluoranthene	202	21.435	21.438	(1.134)	6595548	100.000	91.0771
67 Benzidine	184	21.650	21.653	(0.883)	183227	100.000	62.8171
68 Pyrene	202	21.927	21.930	(0.894)	6513076	100.000	92.5212
S 69 Terphenyl-d14	244	22.172	22.175	(0.904)	4084845	100.000	92.4224
70 Butylbenzylphthalate	149	23.145	23.148	(0.944)	4084255	100.000	93.5834(Q)
71 bis(2-Ethylhexyl)phthalate	149	24.332	24.336	(0.992)	5258566	100.000	92.5695(Q)
72 3,3'-Dichlorobenzidine	252	24.394	24.397	(0.995)	1304491	100.000	101.3912(Q)
73 Benzo(a)anthracene	228	24.486	24.489	(0.999)	4500658	100.000	93.7396
* 74 Chrysene-d12	240	24.517	24.520	(1.000)	1506062	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK309.D
Report Date: 04-Nov-2004 08:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	24.578	24.581	(1.002)	4030288	100.000	91.0776
76 Di-n-octylphthalate	149	25.714	25.718	(0.933)	7534512	100.000	93.4824
77 Benzo(b)fluoranthene	252	26.779	26.782	(0.972)	2848967	100.000	90.9788
78 Benzo(k)fluoranthene	252	26.840	26.844	(0.974)	3026066	100.000	97.6923(A)
79 Benzo(a)pyrene	252	27.455	27.458	(0.996)	2338755	100.000	96.2381(Q)
* 80 Perylene-d12	264	27.557	27.560	(1.000)	793056	40.0000	
81 Dibenz(a,h)anthracene	278	29.881	29.884	(1.084)	1934633	100.000	99.1946(Q)
82 Indeno(1,2,3-cd)pyrene	276	29.881	29.884	(1.084)	1615652	100.000	96.4186(Q)
83 Benzo(g,h,i)perylene	276	30.567	30.570	(1.109)	1255760	100.000	95.7594(Q)

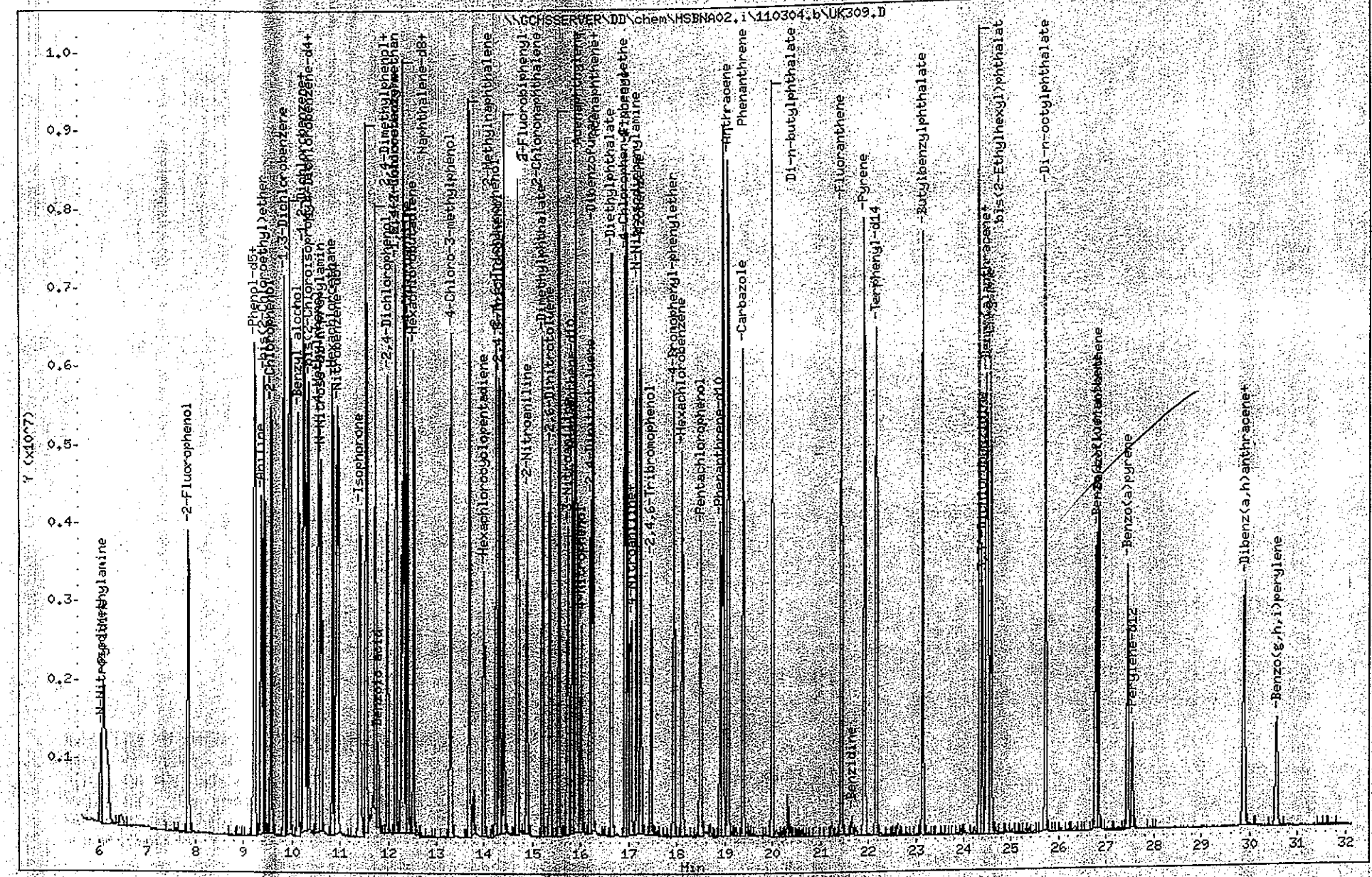
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK309.D
Date : 03-NOV-2004 21:29
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1923
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 c

Instrument: MSBNA02.i

Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK310.D
Report Date: 04-Nov-2004 08:45

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK310.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 22:16 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1861
Misc Info : 120ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:44 target Quant Type: ISTD
Cal Date : 03-NOV-2004 22:16 Cal File: UK310.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC-MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	42	6.046	6.041	(0.609)	1326361	120.000	114.6192(Q)
	2 Pyridine	79	6.107	6.103	(0.615)	4523631	120.000	121.1705(Q)
S	3 2-Fluorophenol	112	7.848	7.843	(0.791)	5009726	120.000	120.7179
S	4 Phenol-d5	99	9.220	9.215	(0.929)	5849111	120.000	120.2956
	5 Phenol	94	9.250	9.246	(0.932)	5605157	120.000	114.7155
	6 Aniline	66	9.373	9.379	(0.944)	2063428	120.000	115.8840(Q)
	7 bis(2-Chloroethyl)ether	63	9.424	9.430	(0.949)	3123547	120.000	112.9842(Q)
	8 2-Chlorophenol	128	9.578	9.573	(0.965)	5153014	120.000	119.5251(Q)
	9 1,3-Dichlorobenzene	146	9.844	9.839	(0.992)	4850593	120.000	116.7912(Q)
*	10 1,4-Dichlorobenzene-d4	152	9.926	9.932	(1.000)	1129685	40.0000	
	11 1,4-Dichlorobenzene	146	9.957	9.962	(1.003)	4852720	120.000	116.1260(Q)
	12 Benzyl alcohol	108	10.141	10.136	(1.022)	3455986	120.000	121.6207(Q)
	13 1,2-Dichlorobenzene	146	10.233	10.239	(1.031)	4660621	120.000	117.3145(Q)
	14 2-Methylphenol	107	10.274	10.280	(1.035)	3292651	120.000	115.7296(Q)
	15 bis(2-Chloroisopropyl) ether	45	10.335	10.331	(1.041)	6109379	120.000	112.7467(Q)
	16 4-Methylphenol	107	10.561	10.556	(1.064)	5299675	120.000	117.9436(Q)
	17 N-Nitroso-di-n-propylamine	70	10.622	10.618	(1.070)	2873285	120.000	115.3150(Q)
	18 Hexachloroethane	117	10.847	10.843	(1.093)	2128624	120.000	119.3205(Q)
S	19 Nitrobenzene-d5	82	10.919	10.925	(0.888)	4299064	120.000	117.2635
	20 Nitrobenzene	77	10.960	10.955	(0.892)	3918029	120.000	116.4340(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK310.D
Report Date: 04-Nov-2004 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	21 Isophorone	82	11.410	11.406	(0.928)	8880920	120.000	116.0036
	22 2,4-Dimethylphenol	122	11.554	11.549	(0.940)	3833795	120.000	118.0739(Q)
	23 2-Nitrophenol	139	11.543	11.539	(0.939)	3058660	120.000	120.9839(Q)
	24 Benzoic acid	122	11.820	11.805	(0.962)	2378570	120.000	114.5730(Q)
	25 bis(2-Chloroethoxy)methane	93	11.738	11.733	(0.955)	5394358	120.000	112.8726(Q)
	26 2,4-Dichlorophenol	162	11.994	11.989	(0.976)	3550483	120.000	120.8546(Q)
	27 1,2,4-Trichlorobenzene	180	12.158	12.163	(0.989)	3464549	120.000	117.5317(Q)
*	28 Naphthalene-d8	136	12.291	12.286	(1.000)	4377458	40.0000	
	29 Naphthalene	128	12.332	12.337	(1.003)	11317363	120.000	109.7602
	30 4-Chloroaniline	127	12.403	12.409	(1.009)	5838028	120.000	119.1899(Q)
	31 Hexachlorobutadiene	225	12.536	12.532	(1.020)	1596761	120.000	117.5219(Q)
	32 4-Chloro-3-methylphenol	107	13.304	13.300	(1.082)	3346482	120.000	115.3601(Q)
	33 2-Methylnaphthalene	142	13.693	13.689	(1.114)	7807375	120.000	113.3621(Q)
	34 Hexachlorocyclopentadiene	237	13.990	13.986	(0.884)	1154191	120.000	123.3429(Q)
	35 2,4,6-Trichlorophenol	196	14.246	14.242	(0.900)	2208128	120.000	123.4621(Q)
	36 2,4,5-Trichlorophenol	196	14.318	14.318	(0.904)	2268950	120.000	122.2627(Q)
$	37 2-Fluorobiphenyl	172	14.410	14.405	(0.910)	6606050	120.000	118.6434
	38 2-Chloronaphthalene	162	14.697	14.692	(0.928)	6095533	120.000	118.7228(Q)
	39 2-Nitroaniline	165	14.891	14.897	(0.941)	1911322	120.000	120.6579(Q)
	40 Dimethylphthalate	163	15.208	15.214	(0.961)	7542666	120.000	116.4045
	41 2,6-Dinitrotoluene	165	15.372	15.378	(0.971)	2135941	120.000	120.8994(Q)
	42 Acenaphthylene	152	15.556	15.552	(0.983)	9857487	120.000	115.0279
	43 3-Nitroaniline	138	15.741	15.736	(0.994)	2574891	120.000	127.4516(Q)
*	44 Acenaphthene-d10	164	15.833	15.828	(1.000)	2016605	40.0000	
	45 Acenaphthene	154	15.905	15.910	(1.005)	6376219	120.000	120.9168(Q)
	46 2,4-Dinitrophenol	184	15.946	15.941	(1.007)	907205	120.000	118.1591(Q)
	47 4-Nitrophenol	109	16.027	16.023	(1.012)	466093	120.000	117.9750(Q)
	48 2,4-Dinitrotoluene	165	16.212	16.207	(1.024)	2599841	120.000	125.3431(Q)
	49 Dibenzofuran	168	16.263	16.258	(1.027)	8229912	120.000	116.0958(Q)
	50 Diethylphthalate	149	16.652	16.658	(1.052)	7143971	120.000	113.8216
	51 4-Chlorophenyl-phenylether	204	16.918	16.924	(1.069)	3221943	120.000	117.6262(Q)
	52 Fluorene	166	16.969	16.965	(1.072)	6597769	120.000	114.8588(Q)
	53 4-Nitroaniline	138	17.032	17.036	(1.076)	2258170	120.000	120.0343(Q)
	54 4,6-Dinitro-2-methylphenol	198	17.051	17.057	(0.902)	1317365	120.000	120.7029(Q)
	55 N-Nitrosodiphenylamine	169	17.174	17.160	(0.908)	4626864	120.000	122.4646(Q)
	56 Azobenzene	77	17.255	17.251	(0.912)	7087107	120.000	116.7450(Q)
$	57 2,4,6-Tribromophenol	330	17.471	17.466	(1.103)	968139	120.000	125.5033
	58 4-Bromophenyl-phenylether	248	17.944	17.937	(0.949)	1623102	120.000	120.2139(Q)
	59 Hexachlorobenzene	284	18.[illegible]	18.324	(0.958)	1683183	120.000	113.6847(Q)
	60 Pentachlorophenol	266	18.505	18.500	(0.978)	1063437	120.000	121.0328(Q)
*	61 Phenanthrene-d10	188	18.914	18.910	(1.000)	2730264	40.0000	
	62 Phenanthrene	178	18.976	18.971	(1.003)	8056438	120.000	115.6196
	63 Anthracene	178	19.078	19.074	(1.009)	8016913	120.000	114.7436
	64 Carbazole	167	19.385	19.391	(1.025)	6899388	120.000	121.9369
	65 Di-n-butylphthalate	149	19.999	19.995	(1.057)	10984780	120.000	104.8157
	66 Fluoranthene	202	21.443	21.438	(1.134)	7460384	120.000	112.3345
	67 Benzidine	184	21.658	21.653	(0.883)	246847	120.000	93.9577
	68 Pyrene	202	21.934	21.930	(0.895)	7512990	120.000	118.4906
$	69 Terphenyl-d14	244	22.170	22.175	(0.904)	4702208	120.000	118.3701
	70 Butylbenzylphthalate	149	23.153	23.148	(0.944)	4625770	120.000	117.6755(Q)
	71 bis(2-Ethylhexyl)phthalate	149	24.340	24.336	(0.993)	9959060	120.000	116.4648(Q)
	72 3,3'-Dichlorobenzidine	252	24.391	24.397	(0.995)	1561077	120.000	134.7099(Q)
	73 Benzo(a)anthracene	228	24.483	24.489	(0.999)	5131133	120.000	118.6524
*	74 Chrysene-d12	240	24.514	24.520	(1.000)	7356522	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK310.D
Report Date: 04-Nov-2004 08:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	24.586	24.581	(1.003)	4787752	120.000	120.1222
76 Di-n-octylphthalate	149	25.712	25.718	(0.933)	8544214	120.000	117.2074
77 Benzo(b)fluoranthene	252	26.787	26.782	(0.972)	3458273	120.000	122.1013
78 Benzo(k)fluoranthene	252	26.838	26.844	(0.974)	3342458	120.000	119.3042(AM)
79 Benzo(a)pyrene	252	27.452	27.458	(0.996)	2663461	120.000	121.1760(Q)
* 80 Perylene-d12	264	27.555	27.560	(1.000)	717292	40.0000	
81 Dibenz(a,h)anthracene	278	29.889	29.884	(1.085)	2496796	120.000	122.9976(Q)
82 Indeno(1,2,3-cd)pyrene	276	29.889	29.884	(1.085)	1848615	120.000	121.9741(Q)
83 Benzo(g,h,i)perylene	276	30.575	30.570	(1.110)	1418272	120.000	119.5755(Q)

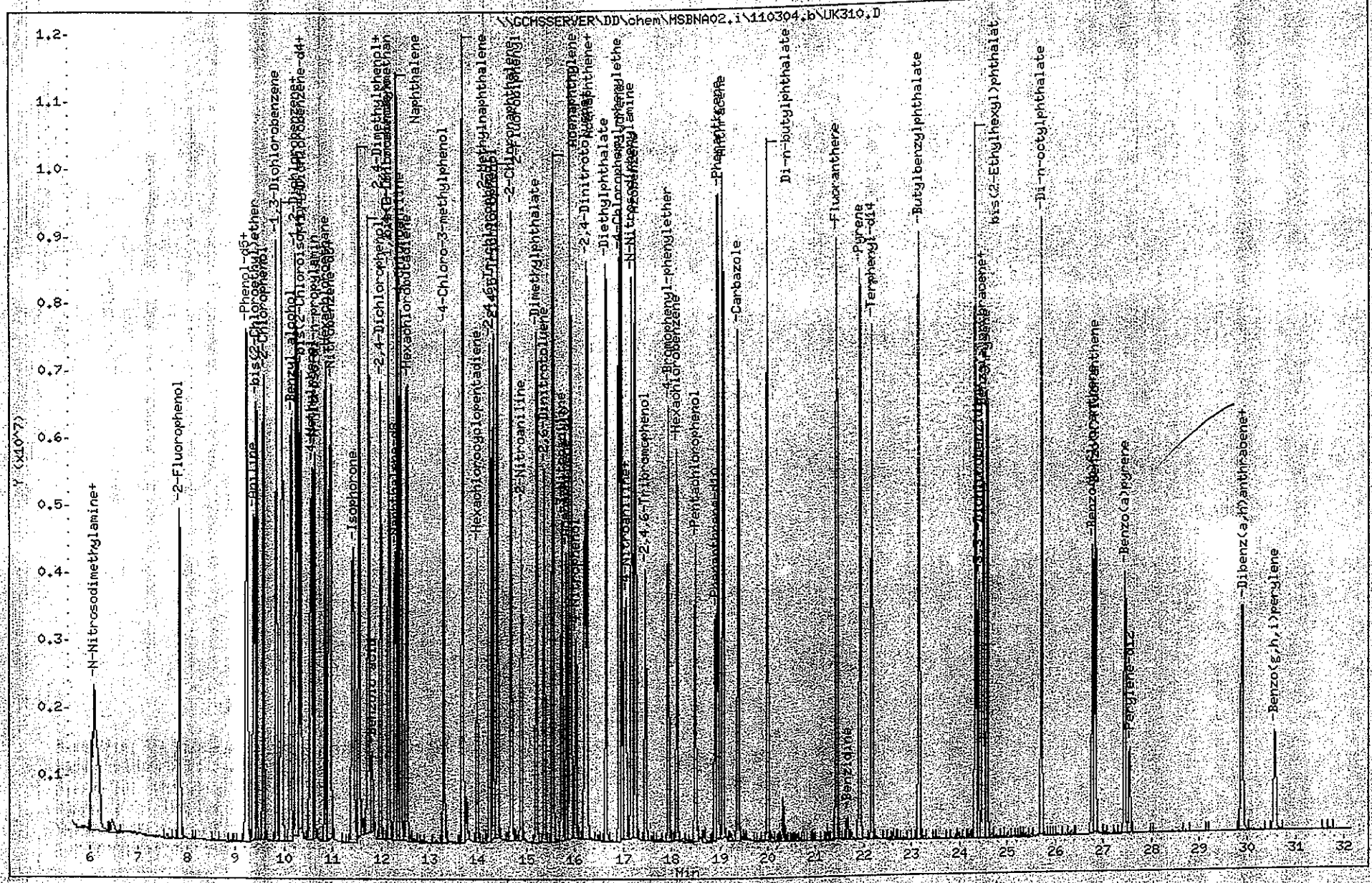
11/04/03

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK310.D
Date : 03-NOV-2004 22:16
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1861
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK311.D
Report Date: 04-Nov-2004 08:45

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK311.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 03-NOV-2004 23:01 MS Autotune Date: 09-JAN-2004 20:01
Operator : LLH Inst ID: MSBNA02.i
Smp Info : ICAL,04WS1862
Misc Info : 160ug/ml ICAL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\6PTBNA2.m
Meth Date : 04-Nov-2004 08:45 target Quant Type: ISTD
Cal Date : 03-NOV-2004 23:01 Cal File: UK311.D
Als bottle: 11 Calibration Sample, level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC MSBNA03

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
1 N-Nitrosodimethylamine	42	6.059	6.041	(0.618)	2399910	160.000	152.0636(Q)
2 Pyridine	79	6.110	6.103	(0.615)	4398159	160.000	164.9019(Q)
$ 3 2-Fluorophenol	112	7.851	7.843	(0.791)	8650357	160.000	152.8362
$ 4 Phenol-d5	99	9.243	9.215	(0.931)	10427798	160.000	157.2487
5 Phenol	94	9.274	9.246	(0.934)	9826833	160.000	147.4826
6 Aniline	66	9.397	9.379	(0.946)	3764244	160.000	155.0053(Q)
7 bis(2-Chloroethyl)ether	63	9.448	9.430	(0.952)	5617124	160.000	148.9767(Q)
8 2-Chlorophenol	128	9.591	9.573	(0.966)	9015663	160.000	153.3310(Q)
9 1,3-Dichlorobenzene	146	9.847	9.839	(0.992)	8013871	160.000	141.4790(Q)
* 10 1,4-Dichlorobenzene-d4	152	9.929	9.932	(1.000)	1540717	40.0000	
11 1,4-Dichlorobenzene	146	9.970	9.962	(1.004)	7883462	160.000	138.3235(Q)
12 Benzyl alcohol	108	10.175	10.136	(1.025)	6248039	160.000	161.2181(Q)
13 1,2-Dichlorobenzene	146	10.246	10.239	(1.032)	7631816	160.000	140.8544(Q)
14 2-Methylphenol	107	10.297	10.280	(1.037)	5619711	160.000	144.8263(Q)
15 bis(2-Chloroisopropyl) ether	45	10.349	10.331	(1.042)	9987253	160.000	135.1411(Q)
16 4-Methylphenol	107	10.553	10.556	(1.063)	9411493	160.000	153.5742(QM)
17 N-Nitroso-di-n-propylamine	70	10.656	10.618	(1.073)	5072945	160.000	149.2826(Q)
18 Hexachloroethane	117	10.840	10.843	(1.092)	3554886	160.000	146.1088(Q)
$ 19 Nitrobenzene-d5	82	10.942	10.925	(0.890)	7699725	160.000	154.9583
20 Nitrobenzene	77	10.983	10.955	(0.893)	5672690	160.000	146.3066(Q)

11/9/04

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK311.D
Report Date: 04-Nov-2004 08:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
21 Isophorone	82	11.475	11.406	(0.933)	15929132	160.000	153.5159
22 2,4-Dimethylphenol	122	11.577	11.549	(0.942)	6708757	160.000	152.4465(Q)
23 2-Nitrophenol	139	11.557	11.539	(0.940)	5521868	160.000	161.1510(Q)
24 Benzoic acid	122	11.925	11.805	(0.970)	5248415	160.000	160.7637(Q)
25 bis(2-Chloroethoxy)methane	93	11.751	11.733	(0.956)	9092384	160.000	140.3709(Q)
26 2,4-Dichlorophenol	162	12.007	11.989	(0.977)	6144250	160.000	154.1103(Q)
27 1,2,4-Trichlorobenzene	180	12.171	12.163	(0.990)	5635539	160.000	141.0569(Q)
* 28 Naphthalene-d8	136	12.294	12.286	(1.000)	5932961	40.0000	
29 Naphthalene	128	12.345	12.337	(1.004)	16405612	160.000	117.3931
30 4-Chloroaniline	127	12.427	12.409	(1.011)	9742986	160.000	146.7628(Q)
31 Hexachlorobutadiene	225	12.539	12.532	(1.020)	2636805	160.000	143.1883(Q)
32 4-Chloro-3-methylphenol	107	13.317	13.300	(1.083)	5842982	160.000	148.6124(Q)
33 2-Methylnaphthalene	142	13.706	13.689	(1.115)	12326804	160.000	132.0577(Q)
34 Hexachlorocyclopentadiene	237	13.993	13.986	(0.884)	2099923	160.000	158.3924(Q)
35 2,4,6-Trichlorophenol	196	14.259	14.242	(0.900)	3906511	160.000	155.7978(Q)
36 2,4,5-Trichlorophenol	196	14.341	14.313	(0.906)	3876738	160.000	149.0162(Q)
$ 37 2-Fluorobiphenyl	172	14.423	14.405	(0.911)	10477613	160.000	134.2339
38 2-Chloronaphthalene	162	14.710	14.692	(0.929)	10002169	160.000	136.7248(Q)
39 2-Nitroaniline	65	14.914	14.897	(0.942)	3484317	160.000	156.9183(Q)
40 Dimethylphthalate	163	15.232	15.214	(0.962)	12903444	160.000	142.0523
41 2,6-Dinitrotoluene	165	15.406	15.378	(0.973)	4035932	160.000	162.9584(Q)
42 Acenaphthylene	152	15.570	15.552	(0.983)	15659238	160.000	130.3484
43 3-Nitroaniline	138	15.774	15.736	(0.996)	4864187	160.000	171.7493(Q)
* 44 Acenaphthene-d10	164	15.836	15.828	(1.000)	2826981	40.0000	
45 Acenaphthene	154	15.928	15.910	(1.006)	10311768	160.000	139.4936(Q)
46 2,4-Dinitrophenol	184	15.969	15.941	(1.008)	2125077	160.000	160.3905
47 4-Nitrophenol	109	16.071	16.023	(1.015)	914483	160.000	160.9376(Q)
48 2,4-Dinitrotoluene	165	16.245	16.207	(1.026)	4447679	160.000	152.9626(Q)
49 Dibenzofuran	168	16.276	16.258	(1.028)	13218928	160.000	133.0196(Q)
50 Diethylphthalate	149	16.685	16.658	(1.054)	11759986	160.000	133.6564
51 4-Chlorophenyl-phenylether	204	16.941	16.924	(1.070)	5212620	160.000	135.7501(Q)
52 Fluorene	166	16.982	16.965	(1.072)	10854541	160.000	134.7958(Q)
53 4-Nitroaniline	138	17.095	17.036	(1.080)	4371235	160.000	160.2915(Q)
54 4,6-Dinitro-2-methylphenol	198	17.105	17.057	(0.904)	2642044	160.000	159.9927(Q)
55 N-Nitrosodiphenylamine	169	17.208	17.180	(0.910)	7950502	160.000	152.7343(Q)
56 Azobenzene	77	17.279	17.251	(0.913)	11825340	160.000	141.3304(Q)
$ 57 2,4,6-Tribromophenol	330	17.484	17.466	(1.104)	1635427	160.000	151.2330
58 4-Bromophenyl-phenylether	248	17.955	17.937	(0.949)	2724266	160.000	146.3283(Q)
59 Hexachlorobenzene	284	18.139	18.121	(0.959)	2946186	160.000	139.4682(Q)
60 Pentachlorophenol	266	18.518	18.500	(0.979)	1991922	160.000	160.0750(Q)
* 61 Phenanthrene-d10	188	18.917	18.910	(1.000)	3763346	40.0000	
62 Phenanthrene	178	18.989	18.971	(1.004)	12958162	160.000	134.9157
63 Anthracene	178	19.101	19.074	(1.010)	12827600	160.000	133.1979
64 Carbazole	167	19.409	19.391	(1.026)	12109027	160.000	155.2615
65 Di-n-butylphthalate	149	20.013	19.995	(1.058)	16185557	160.000	112.0452
66 Fluoranthene	202	21.456	21.438	(1.134)	12264822	160.000	133.9812
67 Benzidine	184	21.661	21.653	(0.883)	506084	160.000	148.2243
68 Pyrene	202	21.947	21.930	(0.895)	12115968	160.000	147.0352
$ 69 Terphenyl-d14	244	22.183	22.175	(0.904)	7599472	160.000	146.8903
70 Butylbenzylphthalate	149	23.166	23.148	(0.944)	7723878	160.000	151.1922(Q)
71 bis(2-Ethylhexyl)phthalate	149	24.343	24.336	(0.992)	9397763	160.000	141.3297(Q)
72 3,3'-Dichlorobenzidine	252	24.415	24.397	(0.995)	2756933	160.000	183.0600(Q)
73 Benzo(a)anthracene	228	24.507	24.489	(0.999)	8357771	160.000	148.7119
* 74 Chrysene-d12	240	24.527	24.520	(1.000)	1762929	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK311.D
Report Date: 04-Nov-2004 08:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
75 Chrysene	228	24.599	24.581	(1.003)	7624130	160.000	147.1885
76 Di-n-octylphthalate	149	25.725	25.718	(0.934)	12590908	160.000	151.9077
77 Benzo(b)fluoranthene	252	26.800	26.782	(0.973)	5344779	160.000	165.9704(Q)
78 Benzo(k)fluoranthene	252	26.851	26.844	(0.974)	5298295	160.000	166.3283(AM)
79 Benzo(a)pyrene	252	27.465	27.458	(0.997)	4056358	160.000	162.3406(Q)
* 80 Perylene-d12	264	27.558	27.560	(1.000)	815560	40.0000=	
81 Dibenz(a,h)anthracene	278	29.902	29.884	(1.085)	2260574	160.000	163.9778(Q)
82 Indeno(1,2,3-cd)pyrene	276	29.902	29.884	(1.085)	2711028	160.000	157.3241(Q)
83 Benzo(g,h,i)perylene	276	30.588	30.570	(1.110)	2052499	160.000	152.1969(Q)

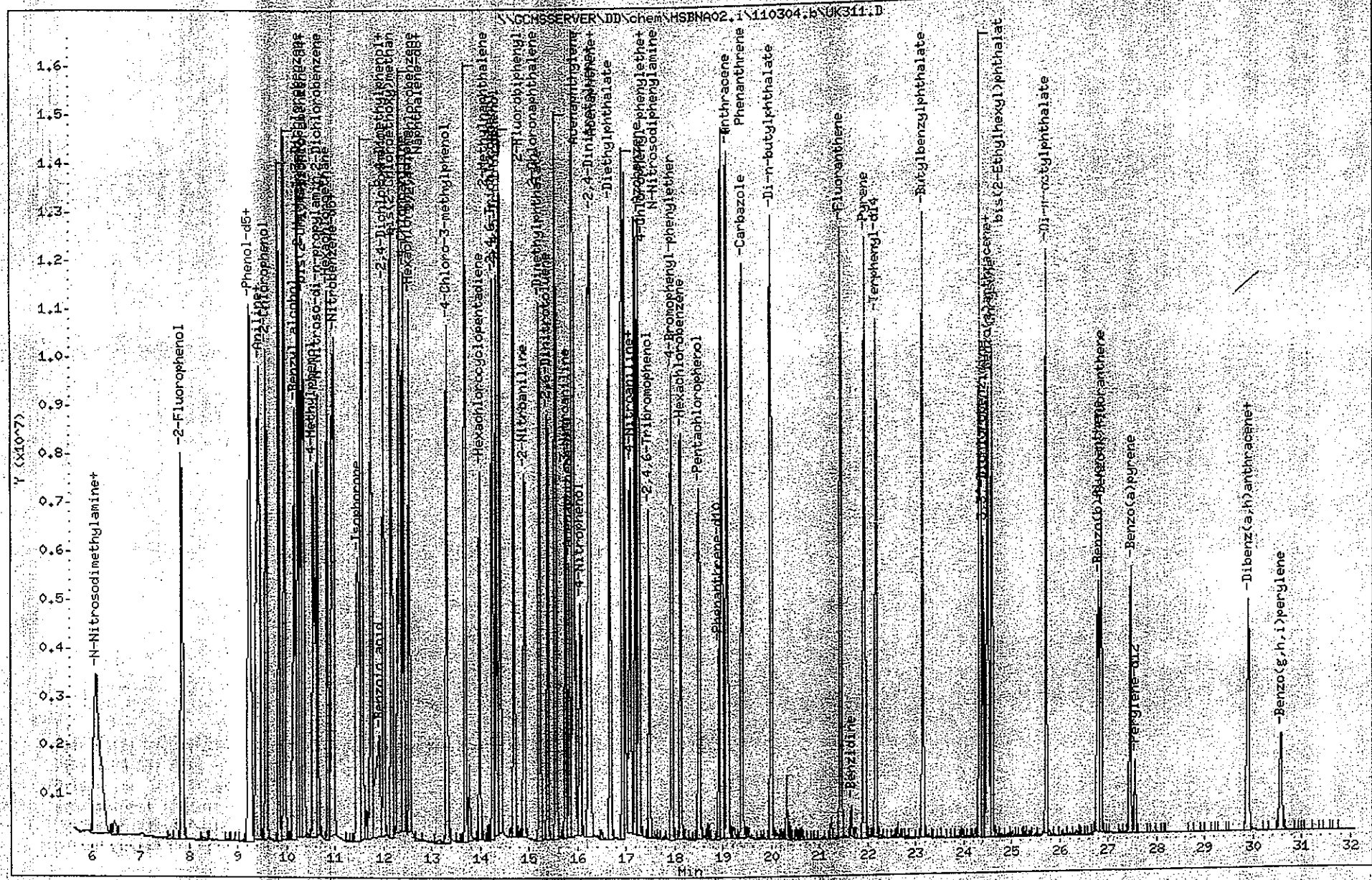
11/4/04

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA02.i\110304.b\UK311.D
Date : 03-NOV-2004 23:01
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1862
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA02.i
Operator: LLH
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA02 Run Name : 80ug/ml ICV
Seqnum : 514444429012 Filename : uk312 Injected : 03-NOV-2004 23:45
Calnum : 514444429002 Caldate : 03-NOV-2004 Caltype :
Standards: 04WS1724

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	80.00000	78.64160	ng	-2	30	
Pyridine	80.00000	92.24720	ng	15	30	
Phenol	80.00000	83.27170	ng	4	20	
Aniline	80.00000	71.43310	ng	-11	30	
bis(2-Chloroethyl)ether	80.00000	85.79510	ng	7	30	
2-Chlorophenol	80.00000	85.14830	ng	6	30	
1,3-Dichlorobenzene	80.00000	83.09930	ng	4	30	
1,4-Dichlorobenzene	80.00000	80.73160	ng	1	20	
Benzyl alcohol	80.00000	84.16300	ng	5	30	
1,2-Dichlorobenzene	80.00000	83.07520	ng	4	30	
2-Methylphenol	80.00000	84.17380	ng	5	30	
bis(2-Chloroisopropyl) ether	80.00000	79.99440	ng	0	30	
4-Methylphenol	80.00000	82.96890	ng	4	30	
N-Nitroso-di-n-propylamine	80.00000	86.99480	ng	9	30	
Hexachloroethane	80.00000	87.60540	ng	10	30	
Nitrobenzene	80.00000	82.65960	ng	3	30	
Isophorone	80.00000	81.61510	ng	2	30	
2-Nitrophenol	80.00000	88.94880	ng	11	20	
2,4-Dimethylphenol	80.00000	93.60880	ng	17	30	
bis(2-Chloroethoxy)methane	80.00000	77.73880	ng	-3	30	
Benzoic acid	80.00000	97.26420	ng	22	40	
2,4-Dichlorophenol	80.00000	87.19740	ng	9	20	
1,2,4-Trichlorobenzene	80.00000	83.48920	ng	4	30	
Naphthalene	80.00000	83.81780	ng	5	30	
4-Chloroaniline	80.00000	81.34310	ng	2	30	
Hexachlorobutadiene	80.00000	81.12420	ng	1	20	
4-Chloro-3-methylphenol	80.00000	86.02450	ng	8	20	
2-Methylnaphthalene	80.00000	82.28850	ng	3	30	
Hexachlorocyclopentadiene	80.00000	93.32870	ng	17	40	
2,4,6-Trichlorophenol	80.00000	91.56110	ng	14	20	
2,4,5-Trichlorophenol	80.00000	92.50330	ng	16	30	
2-Chloronaphthalene	80.00000	89.84830	ng	12	30	
2-Nitroaniline	80.00000	87.28760	ng	9	30	
Dimethylphthalate	80.00000	83.19680	ng	4	30	
2,6-Dinitrotoluene	80.00000	89.88840	ng	12	30	
Acenaphthylene	80.00000	88.35990	ng	10	30	
3-Nitroaniline	80.00000	89.98070	ng	12	30	
Acenaphthene	80.00000	87.56320	ng	9	20	
2,4-Dinitrophenol	80.00000	84.00600	ng	5	40	
4-Nitrophenol	80.00000	85.32520	ng	7	40	
Dibenzofuran	80.00000	86.04570	ng	8	30	
2,4-Dinitrotoluene	80.00000	92.88790	ng	16	30	
Diethylphthalate	80.00000	86.19170	ng	8	30	
Fluorene	80.00000	85.16930	ng	6	30	
4-Chlorophenyl-phenylether	80.00000	87.15710	ng	9	40	
4-Nitroaniline	80.00000	87.20070	ng	9	30	
4,6-Dinitro-2-methylphenol	80.00000	88.68140	ng	11	30	

!=warning +=high bias -=low bias v=ICV
Page 1 of 2

11/05/04

11/5/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA02
Seqnum : 514444429012
Calnum : 514444429002
Standards: 04WS1724

Run Name : 80ug/ml ICV
Filename : uk312
Caldate : 03-NOV-2004

Injected : 03-NOV-2004 23:45
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodiphenylamine	80.00000	93.97880	ng	17	20	
Azobenzene	80.00000	84.68970	ng	6	30	
4-Bromophenyl-phenylether	80.00000	82.99740	ng	4	30	
Hexachlorobenzene	80.00000	83.58690	ng	4	30	
Pentachlorophenol	80.00000	82.80660	ng	4	20	
Phenanthrene	80.00000	87.72720	ng	10	30	
Anthracene	80.00000	84.86320	ng	6	30	
Carbazole	80.00000	93.76190	ng	17	30	
Di-n-butylphthalate	80.00000	80.58980	ng	1	30	
Fluoranthene	80.00000	84.83700	ng	6	20	
Benzidine	80.00000	31.04530	ng	-61	40	v- ***
Pyrene	80.00000	82.27690	ng	3	30	
Butylbenzylphthalate	80.00000	87.43620	ng	9	30	
3,3'-Dichlorobenzidine	80.00000	94.94270	ng	19	40	
Benzo(a)anthracene	80.00000	84.36480	ng	5	30	
bis(2-Ethylhexyl)phthalate	80.00000	88.70860	ng	11	30	
Chrysene	80.00000	85.11750	ng	6	30	
Di-n-octylphthalate	80.00000	90.79030	ng	13	20	
Benzo(b)fluoranthene	80.00000	88.18840	ng	10	30	
Benzo(k)fluoranthene	80.00000	88.25950	ng	10	30	
Benzo(a)pyrene	80.00000	90.26590	ng	13	20	
Indeno(1,2,3-cd)pyrene	80.00000	89.52600	ng	12	30	
Dibenz(a,h)anthracene	80.00000	97.17290	ng	21	30	!v+
Benzo(g,h,i)perylene	80.00000	86.48050	ng	8	30	
2-Fluorophenol	80.00000	87.56270	ng	9	30	
Phenol-d5	80.00000	85.17200	ng	6	30	
Nitrobenzene-d5	80.00000	84.47550	ng	6	30	
2-Fluorobiphenyl	80.00000	88.73190	ng	11	30	
2,4,6-Tribromophenol	80.00000	82.56110	ng	3	30	
Terphenyl-d14	80.00000	81.47350	ng	2	30	

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV

11/5/04

11/05/04

!=warning +=high bias -=low bias v=ICV

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Calibration levels: BNA04 8270 Calibration

- manual integration due to failing/splitting/misidentified peaks:

* ICAL = Aniline/Benzidine failed %RSD > R^2 (NT)
* ICV = Benzidine ↑ %D
= 3-Nitroaniline ↑ warning limit.

— UH 11/30/04 —

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	wkt05	534481550005	2ug/mL	29-NOV-2004 11:53	04WS1856
2	wkt06	534481550006	5ug/mL	29-NOV-2004 12:28	04WS1908
3	wkt07	534481550007	10ug/mL	29-NOV-2004 13:04	04WS1857
4	wkt08	534481550008	20ug/mL	29-NOV-2004 13:39	04WS1858
5	wkt09	534481550009	50ug/mL	29-NOV-2004 14:15	04WS1859
6	wkt10	534481550010	80ug/mL	29-NOV-2004 14:51	04WS1860
7	wkt11	534481550011	100ug/mL	29-NOV-2004 15:26	04WS1923
8	wkt12	534481550012	120ug/mL	29-NOV-2004 16:02	04WS1861
9	wkt13	534481550013	160ug/mL	29-NOV-2004 16:37	04WS1862

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD
N-Nitrosodimethylamine	0.4660m	0.5050m	0.4955m	0.5250	0.5246	0.5021	0.5489	0.5695	AVRG	R			1.933977		ng	0.5171	6	0.0500	0.99	15
Pyridine	0.7514m	0.7985m	0.7705m	0.8265	0.8376	0.8212	0.8895	0.9337	AVRG	R			1.206811		ng	0.8286	7	0.0500	0.99	15
Phenol	1.2661	1.3717	1.3850	1.3174	1.2754	1.2033	1.2784	1.2786	AVRG	R			0.771017		ng	1.2970	5	0.0500	0.99	15
Aniline	0.6231m	0.7055m	0.7556m	0.7818m	0.4812m	0.3702m	0.3576m	0.4002m	AVRG	R			1.787602		ng	0.5594	(32) NT	0.0500	0.99	15
bis(2-Chloroethyl)ether	0.7815m	0.8467	0.8429	0.8188	0.7970	0.7720	0.9009	0.9856m	AVRG	R			1.185998		ng	0.8432	8	0.0500	0.99	15
2-Chlorophenol	1.1504	1.2412	1.2493	1.2737	1.2629	1.2152	1.3234	1.4039	AVRG	R			0.790510		ng	1.2650	6	0.0500	0.99	15
1,3-Dichlorobenzene	1.3596	1.4153	1.4225	1.4210	1.3926	1.3271	1.4587	1.5152	AVRG	R			0.707209		ng	1.4140	4	0.0500	0.99	15
1,4-Dichlorobenzene	1.3631	1.4001	1.4275	1.4199	1.4241	1.3661	1.4041	1.3429	AVRG	R			0.717624		ng	1.3935	2	0.0500	0.99	15
Benzyl alcohol	0.6679	0.7259	0.7380	0.7740	0.7488	0.7145	0.7985	0.9297m	AVRG	R			1.312082		ng	0.7621	10	0.0500	0.99	15
1,2-Dichlorobenzene	1.3135	1.3673	1.3225	1.3473	1.3475	1.2670	1.3030	1.2674	AVRG	R			0.759319		ng	1.3170	3	0.0500	0.99	15
2-Methylphenol	0.7873	0.8338	0.8451	0.8423	0.8172	0.7516	0.7498	0.6799	AVRG	R			1.268426		ng	0.7884	7	0.0500	0.99	15
bis(2-Chloroisopropyl) ether	2.0949	2.2971	2.2189	2.0631	1.9056	1.7131	1.6095	1.5756	AVRG	R			0.516867		ng	1.9347	14	0.0500	0.99	15
4-Methylphenol	1.2243	1.2358	1.3017	1.2916	1.2716m	1.2387m	1.3394m	1.3015m	AVRG	R			0.783956		ng	1.2756	3	0.0500	0.99	15
N-Nitroso-di-n-propylamine	0.5976	0.6620	0.6453	0.6476	0.6202	0.5966m	0.5494	0.5992	AVRG	R			1.626705		ng	0.6147	6	0.0500	0.99	15
Hexachloroethane	0.5871	0.6177	0.6064	0.6151	0.6002	0.5695	0.5502	0.5412	AVRG	R			1.706677		ng	0.5859	5	0.0500	0.99	15
Nitrobenzene	0.2781	0.2996	0.2949	0.2959	0.2939	0.2770	0.2911	0.2856	AVRG	R			3.454329		ng	0.2895	3	0.0500	0.99	15

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

11/30/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	F
Isophorone		0.5656	0.6392	0.6240	0.6512m	0.6279m	0.5931m	0.6273m	0.6126m	AVRG	R		1.619149		ng	0.6176	4	0.0500	0.99	15	
2-Nitrophenol		0.2053	0.2193	0.2278	0.2385	0.2570	0.2495m	0.2621	0.2602	AVRG	R		4.167540		ng	0.2399	9	0.0500	0.99	15	
2,4-Dimethylphenol		0.2342	0.2286	0.2458	0.2336	0.2353	0.2453m	0.2726m	0.2722m	AVRG	R		4.065777		ng	0.2460	7	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.3702	0.3953	0.3895	0.3924	0.3854	0.3621	0.3725m	0.3365	AVRG	R		2.663186		ng	0.3755	5	0.0500	0.99	15	
Benzoic acid		0.0110m	0.0399	0.0426	0.1300	0.1732m	0.1756m	0.1872m	0.2039m	QUAD	R	9.717033	5.762628	-0.03610	ng	0.1204	0.996	0.0500	0.99	15	
2,4-Dichlorophenol		0.2919	0.3253	0.3253	0.3386	0.3439	0.3257	0.3416	0.3149	AVRG	R		3.068246		ng	0.3259	5	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3627	0.3969	0.3909	0.4055	0.4013	0.3776	0.3954	0.3907	AVRG	R		2.563143		ng	0.3901	4	0.0500	0.99	15	
Naphthalene	1.0282	0.9384	1.0234	1.0040	1.0201	0.9746	0.9004	0.8753	0.8648	AVRG	R		1.042976		ng	0.9588	7	0.0500	0.99	15	
4-Chloroaniline		0.3398	0.3298	0.3614	0.4368	0.4208	0.4048	0.4406	0.4304m	AVRG	R		2.528143		ng	0.3955	11	0.0500	0.99	15	
Hexachlorobutadiene		0.2465	0.2589	0.2627	0.2695	0.2575	0.2374	0.2499	0.2480	AVRG	R		3.940129		ng	0.2538	4	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2720	0.2829	0.2861	0.3013	0.3001	0.2848	0.3062	0.2995	AVRG	R		3.429390		ng	0.2916	4	0.0500	0.99	15	
2-Methylnaphthalene	0.7029	0.6895	0.7287	0.7356	0.7651	0.7229	0.6445	0.6708	0.6819	AVRG	R		1.419140		ng	0.7047	5	0.0500	0.99	15	
Hexachlorocyclopentadiene			0.1931	0.2404	0.2972	0.3086	0.2932	0.2671	0.2842	AVRG	R		3.715935		ng	0.2691	15	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3464	0.4117	0.4226	0.4415	0.4543	0.4167	0.4294	0.4165	AVRG	R		2.395898		ng	0.4174	8	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3724	0.4188	0.4402	0.4482	0.4578	0.4152	0.3894	0.3632	AVRG	R		2.420440		ng	0.4131	9	0.0500	0.99	15	
2-Chloronaphthalene		0.8972	1.0167	1.0041	1.0194	1.0095	0.9389	0.8978	0.8943	AVRG	R		1.041961		ng	0.9597	6	0.0500	0.99	15	
2-Nitroaniline		0.2437	0.2812	0.2732	0.2855	0.2823	0.2572	0.2798	0.2770	AVRG	R		3.669819		ng	0.2725	5	0.0500	0.99	15	
Dimethylphthalate		1.3441	1.4916	1.4463	1.4798	1.4917	1.3717	1.4788	1.4595	AVRG	R		0.691838		ng	1.4454	4	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2852	0.3386	0.3355	0.3528	0.3574	0.3351	0.3378	0.3176	AVRG	R		3.007560		ng	0.3325	7	0.0500	0.99	15	
Acenaphthylene	1.5309	1.5302	1.6714	1.6749	1.7064	1.6171	1.4557	1.4590	1.3128	AVRG	R		0.644768		ng	1.5509	8	0.0500	0.99	15	
3-Nitroaniline		0.2545	0.2192	0.2364	0.3042	0.3130	0.2905	0.3109	0.2807m	AVRG	R		3.620868		ng	0.2762	13	0.0500	0.99	15	
Acenaphthene	0.9606	0.8525	0.9622	0.9387	0.9745	0.9446	0.8606	0.8495	0.8284	AVRG	R		1.101377		ng	0.9080	6	0.0500	0.99	15	
2,4-Dinitrophenol				0.1202	0.1964	0.2192	0.2154	0.2490	0.2564	QUAD	R	9.674431	4.359340	-0.01763	ng	0.2094	0.997	0.0500	0.99	15	
4-Nitrophenol				0.1359	0.1640	0.1850	0.1745	0.1853	0.1901	AVRG	R		5.798553		ng	0.1725	12	0.0500	0.99	15	
Dibenzofuran		1.3600	1.5449	1.5144	1.5121	1.4831	1.3006	1.3063	1.2753	AVRG	R		0.708170		ng	1.4121	8	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3627	0.4488	0.4483	0.4589	0.4526	0.4116	0.4565	0.4584	AVRG	R		2.287126		ng	0.4372	8	0.0500	0.99	15	
Diethylphthalate		1.3343	1.5280	1.5056	1.5598	1.4777	1.3341	1.3225	1.2646	AVRG	R		0.706305		ng	1.4158	8	0.0500	0.99	15	
Fluorene	1.2039	1.1763	1.2766	1.2458	1.2189	1.1878	1.0417	1.1156	1.0533m	AVRG	R		0.855517		ng	1.1689	7	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6410	0.7242	0.7019	0.6880	0.6507	0.5947	0.5893	0.5623	AVRG	R		1.552781		ng	0.6440	9	0.0500	0.99	15	
4-Nitroaniline		0.1609	0.1774	0.2038	0.2474	0.2836	0.2654	0.2597	0.2639	QUAD	R	4.082449	3.422815	0.006633	ng	0.2328	0.998	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol			0.1127	0.1359	0.1624	0.1731	0.1622	0.1705	0.1620	AVRG	R		6.488032		ng	0.1541	14	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	F
N-Nitrosodiphenylamine		0.4133	0.4509	0.4489	0.4589	0.4623	0.4279	0.4301	0.4157	AVRG	R		2.280525		ng	0.4385	4	0.0500	0.99	15	
Azobenzene		0.5682	0.6139	0.5974	0.6324	0.6148	0.5980	0.6104	0.6101	AVRG	R		1.651161		ng	0.6056	3	0.0500	0.99	15	
4-Bromophenyl-phenylether		0.2149	0.2394	0.2402	0.2467	0.2430	0.2178	0.2353	0.2427	AVRG	R		4.255202		ng	0.2350	5	0.0500	0.99	15	
Hexachlorobenzene		0.2692	0.3018	0.2986	0.3019	0.2778	0.2588	0.2696	0.2733	AVRG	R		3.553810		ng	0.2814	6	0.0500	0.99	15	
Pentachlorophenol			0.1460	0.1651	0.1927	0.1953	0.1819	0.1958	0.2009	AVRG	R		5.478736		ng	0.1825	11	0.0500	0.99	15	
Phenanthrene	0.9713	0.8711	0.9603	0.9441	0.9900	0.9385	0.8832	0.9101	0.9033	AVRG	R		1.075024		ng	0.9302	4	0.0500	0.99	15	
Anthracene	0.9588	0.8962	0.9703	0.9776	0.9810	0.9308	0.8520	0.8680	0.8660	AVRG	R		1.084253		ng	0.9223	6	0.0500	0.99	15	
Carbazole		0.7079	0.6535	0.5624	0.6401	0.7416	0.7014	0.7822	0.7683	AVRG	R		1.439514		ng	0.6947	11	0.0500	0.99	15	
Di-n-butylphthalate		1.4643	1.6292	1.6393	1.4818	1.3801	1.3088	1.2761	1.2073	AVRG	R		0.702555		ng	1.4234	11	0.0500	0.99	15	
Fluoranthene	1.1857	1.0851	1.1845	1.1543	1.1679	1.1596	1.0099	1.0378	1.0164	AVRG	R		0.899887		ng	1.1113	7	0.0500	0.99	15	
Benzidine		0.0558	0.0540	0.1178	0.0463	0.0842	0.0432	0.0544	0.0748	AVRG	R		15.08143		ng	0.0663	38 NT	0.0500	0.99	15	
Pyrene	1.2596	1.1569	1.2973	1.3110	1.3328	1.2838	1.2166	1.3349	1.4508	AVRG	R		0.772948		ng	1.2937	6	0.0500	0.99	15	
Butylbenzylphthalate		0.7150	0.7931	0.8063	0.8061	0.8194	0.7419	0.8003	0.8419	AVRG	R		1.265009		ng	0.7905	5	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3215	0.2864	0.2910	0.3930	0.3961	0.3463	0.3930	0.3865	AVRG	R		2.843115		ng	0.3517	13	0.0500	0.99	15	
Benzo(a)anthracene	1.2991	1.1666	1.2673	1.2681	1.2704	1.2615	1.1378	1.2997m	1.3708m	AVRG	R		0.793559		ng	1.2601	6	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		1.0695	1.1835	1.2119	1.0515	0.9701	0.8912	1.0022	0.9871	AVRG	R		0.956143		ng	1.0459	10	0.0500	0.99	15	
Chrysene	1.1249	1.0207	1.1321	1.1551	1.1499	1.1057	1.0386	1.1357	1.1104m	AVRG	R		0.902421		ng	1.1081	4	0.0500	0.99	15	
Di-n-octylphthalate		1.8785	2.2477	2.2822	2.4537	2.6272	2.5578	2.7537	2.9482	AVRG	R		0.405084		ng	2.4686	13	0.0500	0.99	15	
Benzo(b)fluoranthene	1.3211m	1.1867m	1.3472m	1.3318m	1.8612	1.8604	1.8343			QUAD	R	2.640563	0.516768	5.451E-5	ng	1.5347	0.998	0.0500	0.99	15	
Benzo(k)fluoranthene	1.2892	1.2368	1.3373	1.4449m	1.1048m	1.2593m	1.1504m	1.1303m	1.0587m	AVRG	R		0.817312		ng	1.2235	10	0.0500	0.99	15	
Benzo(a)pyrene	1.1146	1.0556	1.1967	1.1867	1.2070	1.2497	1.1687	1.2867	1.2622	AVRG	R		0.838932		ng	1.1920	6	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.2729	1.1896	1.3924	1.3666	1.2665	1.2438	1.1279	1.1076	0.8923	AVRG	R		0.828752		ng	1.2066	13	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9812	0.9287	1.1005	1.0915	1.0314	1.0130	0.9208	0.9202	0.7661	AVRG	R		1.028178		ng	0.9726	11	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.0820	0.9833	1.1458	1.1198	0.9843	0.9568	0.8663	0.7998		AVRG	R		1.007813		ng	0.9922	12	0.0500	0.99	15	
2-Fluorophenol		0.8936	1.0055	0.9997	1.0319	1.0414	1.0080	1.1005	1.1387	AVRG	R		0.973321		ng	1.0274	7	0.0500	0.99	15	
Phenol-d5		1.1077	1.2210	1.2046	1.2566	1.2366	1.1905	1.2635	1.2375	AVRG	R		0.823219		ng	1.2147	4	0.0500	0.99	15	
Nitrobenzene-d5		0.2935	0.3159	0.3210	0.3255	0.3171	0.3019	0.3259	0.3293	AVRG	R		3.162043		ng	0.3163	4	0.0500	0.99	15	
2-Fluorobiphenyl		1.1518	1.2507	1.2457	1.2597	1.2378	1.0817	1.0392	1.0890	AVRG	R		0.855117		ng	1.1694	8	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2301	0.2845	0.2846	0.3055	0.2929	0.2560	0.2824	0.2751	AVRG	R		3.618098		ng	0.2764	8	0.0500	0.99	15	
Terphenyl-d14		0.9334	1.0195	1.0423	1.0237	0.9599	0.9139	1.0480	1.1194	AVRG	R		0.992558		ng	1.0075	7	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Report Date: 30-Nov-2004 10:47

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 11:53 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1856
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:47 target Quant Type: ISTD
Cal Date : 29-NOV-2004 11:53 Cal File: WKT05.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
$ 3 2-Fluorophenol	112	5.518	5.508	(0.796)	11537	2.00000		(aQ)
$ 4 Phenol-d5	99	6.520	6.551	(0.941)	17062	2.00000		(aQ)
5 Phenol	94	6.530	6.571	(0.942)	29715	2.00000		(aQ)
6 Aniline	93	6.530	6.582	(0.942)	9485	2.00000		(aQ)
7 bis(2-Chloroethyl)ether	63	6.632	6.653	(0.957)	10742	2.00000		(aQ)
8 2-Chlorophenol	128	6.704	6.725	(0.968)	18880	2.00000		(aQ)
9 1,3-Dichlorobenzene	146	6.867	6.878	(0.991)	21182	2.00000		(aQ)
* 10 1,4-Dichlorobenzene-d4	152	6.929	6.939	(1.000)	308395	40.0000		(Q)
11 1,4-Dichlorobenzene	146	6.949	6.960	(1.003)	21833	2.00000		(aQ)
12 Benzyl alcohol	108	7.092	7.133	(1.024)	10162	2.00000		(aQ)
13 1,2-Dichlorobenzene	146	7.133	7.133	(1.030)	20668	2.00000		(aQ)
14 2-Methylphenol	107	7.215	7.236	(1.041)	12860	2.00000		(aQ)
15 bis(2-Chloroisopropyl) ether	45	7.235	7.256	(1.044)	36293	2.00000		(a)
16 4-Methylphenol	107	7.399	7.450	(1.068)	17711	2.00000		(aQ)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Report Date: 30-Nov-2004 10:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
	17 N-Nitroso-di-n-propylamine	70	7.399	7.471	(1.068)	8611	2.00000		(aQ)
	18 Hexachloroethane	117	7.512	7.522	(1.084)	9179	2.00000		(aQ)
$	19 Nitrobenzene-d5	82	7.583	7.614	(0.900)	16714	2.00000		(aQ)
	20 Nitrobenzene	77	7.604	7.634	(0.903)	15665	2.00000		(aQ)
	21 Isophorone	82	7.880	7.982	(0.936)	32622	2.00000		(a)
	22 2-Nitrophenol	139	7.982	7.992	(0.948)	11089	2.00000		(aQ)
	23 2,4-Dimethylphenol	122	8.012	8.064	(0.951)	14326	2.00000		(aQ)
	24 bis(2-Chloroethoxy)methane	93	8.125	8.156	(0.965)	21019	2.00000		(aQ)
	25 2,4-Dichlorophenol	162	8.268	8.299	(0.982)	15207	2.00000		(aQ)
	26 Benzoic acid	122	8.012	8.361	(0.951)	14326	2.00000		(aQ)
	27 1,2,4-Trichlorobenzene	180	8.350	8.371	(0.992)	20756	2.00000		(aQ)
*	28 Naphthalene-d8	136	8.421	8.442	(1.000)	1071502	40.0000		
	29 Naphthalene	128	8.452	8.473	(1.004)	55087	2.00000	2.0000	(a)
	30 4-Chloroaniline	127	8.524	8.544	(1.012)	21453	2.00000		(a)
	31 Hexachlorobutadiene	225	8.595	8.606	(1.021)	14398	2.00000		(aQ)
	32 4-Chloro-3-methylphenol	107	9.096	9.127	(1.080)	15025	2.00000		(aQ)
	33 2-Methylnaphthalene	142	9.280	9.301	(1.102)	37659	2.00000	2.0000	(aQ)
	34 Hexachlorocyclopentadiene	237	9.474	9.485	(0.897)	2053	2.00000		(aQ)
	35 2,4,6-Trichlorophenol	196	9.628	9.659	(0.912)	13616	2.00000		(aQ)
	36 2,4,5-Trichlorophenol	196	9.679	9.710	(0.917)	13832	2.00000		(aQ)
$	37 2-Fluorobiphenyl	172	9.720	9.740	(0.921)	46382	2.00000		(aQ)
	38 2-Chloronaphthalene	162	9.873	9.894	(0.935)	35415	2.00000		(aQ)
	39 2-Nitroaniline	65	10.006	10.047	(0.948)	8080	2.00000		(aQ)
	40 Dimethylphthalate	163	10.210	10.252	(0.967)	51291	2.00000		(a)
	41 2,6-Dinitrotoluene	165	10.292	10.354	(0.975)	10782	2.00000		(a)
	42 Acenaphthylene	152	10.374	10.405	(0.983)	56382	2.00000	2.0000	(a)
	43 3-Nitroaniline	138	10.507	10.569	(0.995)	9404	2.00000		(aQ)
*	44 Acenaphthene-d10	164	10.558	10.569	(1.000)	736589	40.0000		(Q)
	45 Acenaphthene	154	10.545	10.620	(1.003)	35377	2.00000	2.0000	(aQ)
	48 Dibenzofuran	168	10.793	10.824	(1.022)	53708	2.00000		(aQ)
	49 2,4-Dinitrotoluene	165	10.791	11.855	(1.022)	14258	2.00000		(aQ)
	50 Diethylphthalate	149	11.059	11.131	(1.047)	53971	2.00000		(a)
	51 4-Chlorophenyl-phenylether	204	11.202	11.233	(1.061)	34439	2.00000		(aQ)
	52 Fluorene	166	11.212	11.254	(1.062)	44340	2.00000	2.0000	(aQ)
	53 4-Nitroaniline	138	11.253	11.366	(1.066)	6485	2.00000		(aQ)
	55 N-Nitrosodiphenylamine	169	11.345	11.407	(0.917)	29521	2.00000		(aQ)
	56 Azobenzene	77	11.396	11.438	(0.921)	38919	2.00000		(aQ)
$	57 2,4,6-Tribromophenol	330	11.519	11.550	(1.091)	9163	2.00000		(aQ)
	58 4-Bromophenyl-phenylether	248	11.795	11.826	(0.954)	14191	2.00000		(aQ)
	59 Hexachlorobenzene	284	11.897	11.938	(0.962)	18929	2.00000		(aQ)
	60 Pentachlorophenol	266	12.153	12.174	(0.983)	2497	2.00000		(aQ)
*	61 Phenanthrene-d10	188	12.368	12.388	(1.000)	1301308	40.0000		
	62 Phenanthrene	178	12.388	12.429	(1.002)	63200	2.00000	2.0000	(a)
	63 Anthracene	178	12.449	12.491	(1.007)	62387	2.00000	2.0000	(a)
	64 Carbazole	167	12.644	12.685	(1.022)	53215	2.00000		(a)
	65 Di-n-butylphthalate	149	13.042	13.074	(1.055)	105243	2.00000		(a)
	66 Fluoranthene	202	13.840	13.871	(1.119)	77150	2.00000	2.0000	(a)

N/A

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Report Date: 30-Nov-2004 10:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
67 Benzidine	184	13.993	14.014	(0.891)	7521	2.00000	(a)
68 Pyrene	202	14.116	14.157	(0.899)	79002	2.00000	2.0000(a)
S 69 Terphenyl-d14	244	14.290	14.321	(0.910)	65435	2.00000	(a)
70 Butylbenzylphthalate	149	14.872	14.903	(0.947)	47374	2.00000	(aQ)
71 3,3'-Dichlorobenzidine	252	15.629	15.690	(0.995)	20698	2.00000	(aQ)
73 Benzo(a)anthracene	228	15.670	15.711	(0.998)	81483	2.00000	2.0000(a)
* 74 Chrysene-d12	240	15.700	15.742	(1.000)	1254432	40.0000	
75 Chrysene	228	15.731	15.793	(1.002)	70558	2.00000	2.0000(a)
76 Di-n-octylphthalate	149	16.702	16.743	(0.910)	110603	2.00000	(a)
77 Benzo(b)fluoranthene	252	17.500	17.613	(0.954)	74305	2.00000	2.0000(aM)
78 Benzo(k)fluoranthene	252	17.561	17.674	(0.957)	72511	2.00000	2.0000(aA)
79 Benzo(a)pyrene	252	18.185	18.277	(0.991)	62695	2.00000	2.0000(a)
* 80 Perylene-d12	264	18.348	18.389	(1.000)	1124934	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.955	21.129	(1.142)	71596	2.00000	2.0000(a)
82 Dibenz(a,h)anthracene	278	21.006	21.170	(1.145)	55191	2.00000	2.0000(a)
83 Benzo(g,h,i)perylene	276	21.681	21.835	(1.182)	6085	2.00000	2.0000(a)

Utilized for BWD

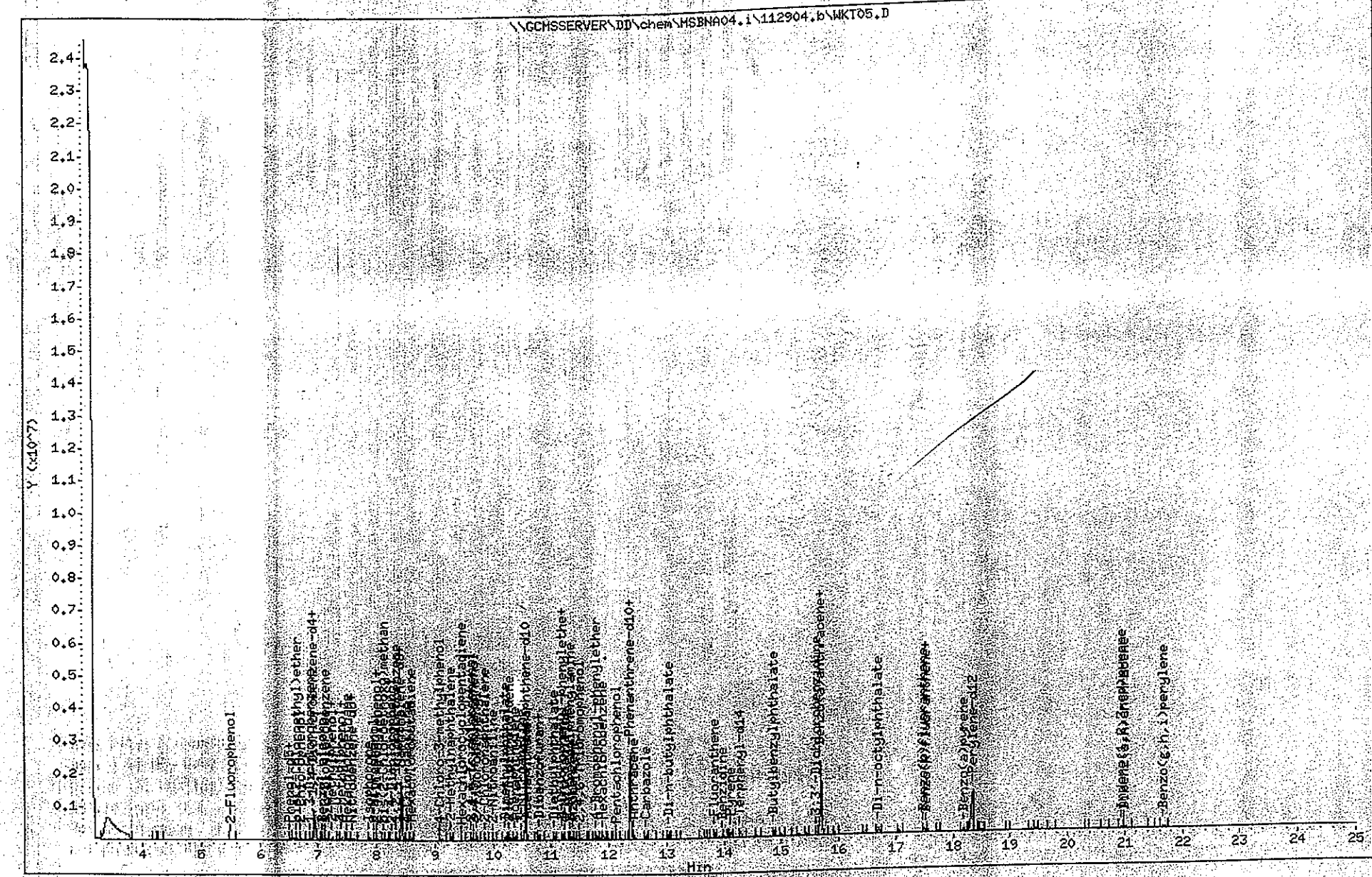
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Date : 29-NOV-2004 11:53
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1856
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i

Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Report Date: 30-Nov-2004 10:47

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 12:28 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1908
Misc Info : 5ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:47 target Quant Type: ISTD
Cal Date : 29-NOV-2004 12:28 Cal File: WKT06.D
Als bottle: 4 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.190	4.179	(0.605)	20713	5.00000	5.0000(QM)
	2 Pyridine	79	4.231	4.199	(0.611)	33402	5.00000	5.0000(M)
$	3 2-Fluorophenol	112	5.509	5.508	(0.795)	39723	5.00000	5.0000(Q)
$	4 Phenol-d5	99	6.523	6.551	(0.941)	49239	5.00000	5.0000(Q)
	5 Phenol	94	6.537	6.571	(0.942)	56280	5.00000	5.0000(Q)
	6 Aniline	66	6.572	6.582	(0.948)	27699	5.00000	5.0000(QMH)
	7 bis(2-Chloroethyl)ether	63	6.623	6.653	(0.956)	34740	5.00000	5.0000(QM)
	8 2-Chlorophenol	128	6.705	6.724	(0.968)	51134	5.00000	5.0000(Q)
	9 1,3-Dichlorobenzene	146	6.869	6.878	(0.991)	60436	5.00000	5.0000(Q)
*	10 1,4-Dichlorobenzene-d4	152	6.930	6.939	(1.000)	355606	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	6.951	6.960	(1.003)	60593	5.00000	5.0000(Q)
	12 Benzyl alcohol	108	7.094	7.133	(1.024)	29688	5.00000	5.0000(Q)
	13 1,2-Dichlorobenzene	146	7.124	7.133	(1.028)	58388	5.00000	5.0000(Q)
	14 2-Methylphenol	107	7.216	7.236	(1.041)	34998	5.00000	5.0000(Q)

Metals 2/2/05 2 pmo

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Report Date: 30-Nov-2004 10:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
15 bis(2-Chloroisopropyl) ether	45	7.237	7.256	(1.044)	93118	5.00000	5.0000
16 4-Methylphenol	107	7.390	7.450	(1.066)	54423	5.00000	5.0000(Q)
17 N-Nitroso-di-n-propylamine	70	7.400	7.471	(1.068)	26564	5.00000	5.0000(Q)
18 Hexachloroethane	117	7.513	7.522	(1.084)	26098	5.00000	5.0000(Q)
$ 19 Nitrobenzene-d5	82	7.584	7.614	(0.900)	47420	5.00000	5.0000(Q)
20 Nitrobenzene	77	7.605	7.634	(0.903)	44934	5.00000	5.0000(Q)
21 Isophorone	82	7.881	7.982	(0.936)	91380	5.00000	5.0000
22 2-Nitrophenol	139	7.983	7.992	(0.948)	33176	5.00000	5.0000(Q)
23 2,4-Dimethylphenol	122	8.014	8.064	(0.951)	37835	5.00000	5.0000(Q)
24 bis(2-Chloroethoxy)methane	93	8.116	8.156	(0.964)	59811	5.00000	5.0000(Q)
25 2,4-Dichlorophenol	162	8.259	8.299	(0.981)	47161	5.00000	5.0000(Q)
26 Benzoic acid	122	8.167	8.361	(0.970)	1785	5.00000	5.0000(QMH)
27 1,2,4-Trichlorobenzene	180	8.351	8.371	(0.992)	58604	5.00000	5.0000(Q)
* 28 Naphthalene-d8	136	8.423	8.442	(1.000)	1292479	40.0000	
29 Naphthalene	128	8.443	8.473	(1.002)	151605	5.00000	4.7715(a)
30 4-Chloroaniline	127	8.525	8.544	(1.012)	54898	5.00000	5.0000(Q)
31 Hexachlorobutadiene	225	8.596	8.606	(1.021)	39825	5.00000	5.0000(Q)
32 4-Chloro-3-methylphenol	107	9.097	9.127	(1.080)	43939	5.00000	5.0000(Q)
33 2-Methylnaphthalene	142	9.281	9.301	(1.102)	111389	5.00000	4.9516(aQ)
34 Hexachlorocyclopentadiene	237	9.476	9.485	(0.897)	12957	5.00000	(aQ)
35 2,4,6-Trichlorophenol	196	9.629	9.659	(0.912)	38466	5.00000	5.0000(Q)
36 2,4,5-Trichlorophenol	196	9.680	9.710	(0.917)	41349	5.00000	5.0000(Q)
$ 37 2-Fluorobiphenyl	172	9.721	9.740	(0.921)	127901	5.00000	5.0000(Q)
38 2-Chloronaphthalene	162	9.874	9.894	(0.935)	99634	5.00000	5.0000(Q)
39 2-Nitroaniline	65	10.007	10.047	(0.948)	27067	5.00000	5.0000(aQ)
40 Dimethylphthalate	163	10.212	10.252	(0.967)	149255	5.00000	5.0000
41 2,6-Dinitrotoluene	165	10.294	10.354	(0.975)	31666	5.00000	5.0000(Q)
42 Acenaphthylene	152	10.375	10.405	(0.983)	169926	5.00000	4.9988(a)
43 3-Nitroaniline	138	10.508	10.569	(0.995)	28258	5.00000	5.0000(aQ)
* 44 Acenaphthene-d10	164	10.539	10.569	(1.000)	899378	40.0000	(Q)
45 Acenaphthene	154	10.561	10.620	(1.002)	94665	5.00000	4.7019(aQ)
46 2,4-Dinitrophenol	184	10.562	10.692	(1.000)	1748	5.00000	(aM)
47 4-Nitrophenol	109	10.732	10.774	(1.015)	8776	5.00000	(aQ)
48 Dibenzofuran	168	10.793	10.832	(1.022)	[illegible]	5.00000	5.0000(Q)
49 2,4-Dinitrotoluene	165	10.795	10.835	(1.022)	[illegible]	5.00000	5.0000(Q)
50 Diethylphthalate	149	11.060	11.131	(1.047)	[illegible]	5.00000	5.0000
51 4-Chlorophenyl-phenylether	204	11.203	11.233	(1.061)	[illegible]	5.00000	5.0000(Q)
52 Fluorene	166	11.214	11.254	(1.062)	[illegible]	5.00000	4.9420(aQ)
53 4-Nitroaniline	138	11.255	11.366	(1.066)	17866	5.00000	5.0000(aQ)
54 4,6-Dinitro-2-methylphenol	198	11.295	11.377	(0.913)	12497	5.00000	(aQ)
55 N-Nitrosodiphenylamine	169	11.347	11.407	(0.917)	81665	5.00000	5.0000(Q)
56 Azobenzene	77	11.398	11.438	(0.921)	112272	5.00000	5.0000(Q)
$ 57 2,4,6-Tribromophenol	330	11.510	11.550	(1.090)	25555	5.00000	5.0000(Q)
58 4-Bromophenyl-phenylether	248	11.796	11.826	(0.954)	42466	5.00000	5.0000(Q)
59 Hexachlorobenzene	284	11.899	11.938	(0.962)	53198	5.00000	5.0000(Q)
60 Pentachlorophenol	266	12.144	12.174	(0.982)	18807	5.00000	(aQ)
* 61 Phenanthrene-d10	188	12.369	12.368	(1.000)	1580771	40.0000	

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Report Date: 30-Nov-2004 10:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.389	12.429	(1.002)	172126	5.00000	4.7279(a)
63 Anthracene	178	12.451	12.491	(1.007)	177092	5.00000	4.8312(a)
64 Carbazole	167	12.645	12.685	(1.022)	139887	5.00000	5.0000
65 Di-n-butylphthalate	149	13.044	13.074	(1.055)	289349	5.00000	5.0000
66 Fluoranthene	202	13.841	13.871	(1.119)	214418	5.00000	4.7785(a)
67 Benzidine	184	13.994	14.014	(0.891)	10525	5.00000	5.0000
68 Pyrene	202	14.117	14.157	(0.899)	218306	5.00000	4.7876(a)
$ 69 Terphenyl-d14	244	14.291	14.321	(0.910)	176118	5.00000	5.0000
70 Butylbenzylphthalate	149	14.874	14.903	(0.947)	134908	5.00000	5.0000(Q)
71 3,3'-Dichlorobenzidine	252	15.630	15.690	(0.995)	60668	5.00000	5.0000(aQ)
72 bis(2-Ethylhexyl)phthalate	149	15.661	15.690	(0.997)	201801	5.00000	5.0000
73 Benzo(a)anthracene	228	15.671	15.711	(0.998)	220124	5.00000	4.7312(a)
* 74 Chrysene-d12	240	15.702	15.742	(1.000)	1509537	40.0000	
75 Chrysene	228	15.732	15.793	(1.002)	192605	5.00000	4.7571(a)
76 Di-n-octylphthalate	149	16.704	16.743	(0.910)	318410	5.00000	5.0000
77 Benzo(b)fluoranthene	252	17.511	17.613	(0.954)	201153	5.00000	5.0000(M)
78 Benzo(k)fluoranthene	252	17.562	17.674	(0.957)	209651	5.00000	4.8964(aA)
79 Benzo(a)pyrene	252	18.186	18.277	(0.991)	178927	5.00000	4.8639(a)
* 80 Perylene-d12	264	18.350	18.389	(1.000)	1356035	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.957	21.129	(1.142)	201634	5.00000	4.8307(a)
82 Dibenz(a,h)anthracene	278	21.008	21.170	(1.145)	157414	5.00000	4.8624(a)
83 Benzo(g,h,i)perylene	276	21.693	21.835	(1.182)	166679	5.00000	4.7612(a)

Ref 4/2 SOTOS & for BNO

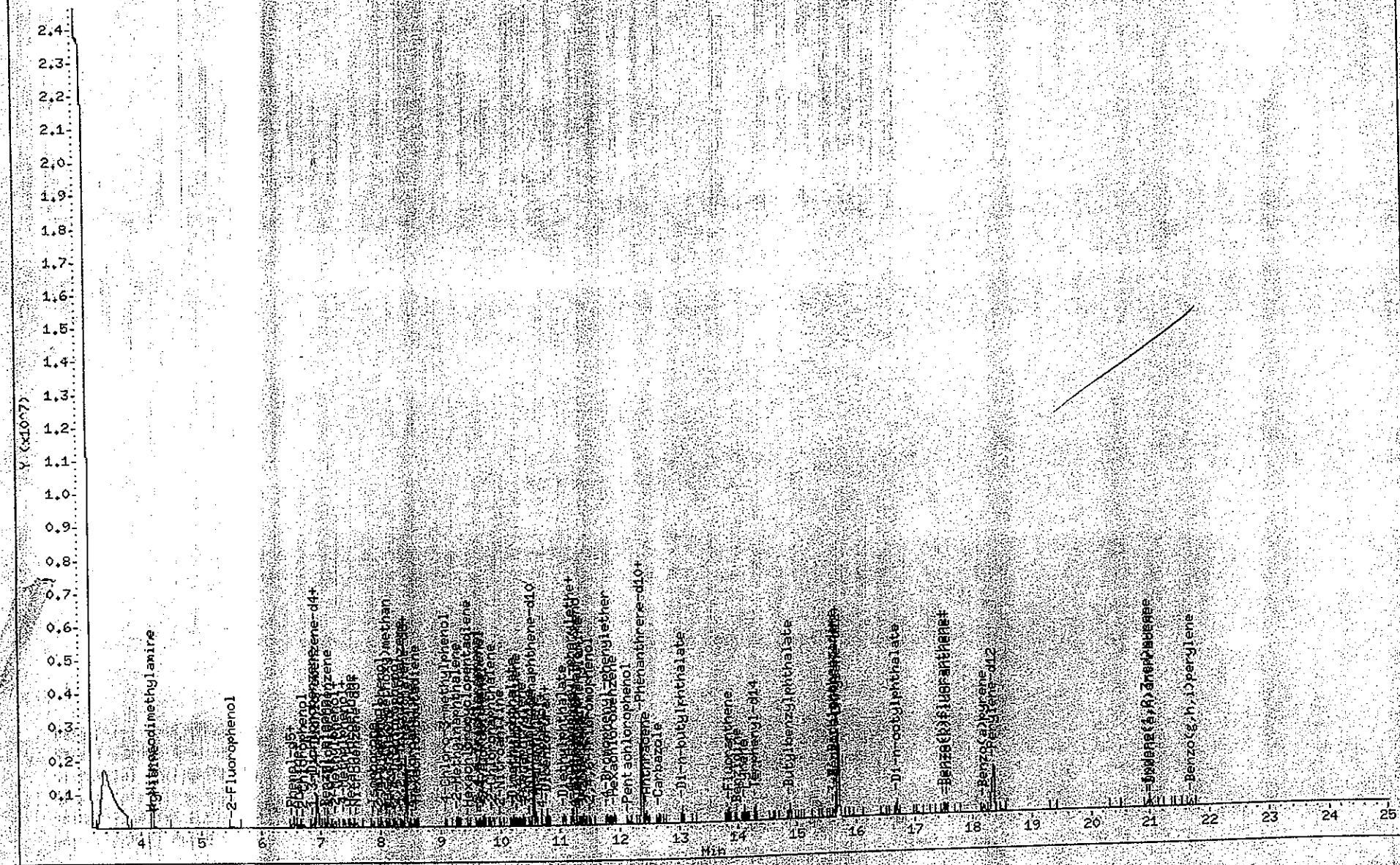
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Date : 29-NOV-2004 12:28
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1908
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25

\\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Report Date: 30-Nov-2004 10:48

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 13:04 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1857
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:47 target Quant Type: ISTD
Cal Date : 29-NOV-2004 13:04 Cal File: WKT07.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (NG)	AMOUNTS ON COL (NG)
	1 N-Nitrosodimethylamine	74	4.175	4.179	(0.602)	46136	10.0000	10.4022(QM)
	2 Pyridine	79	4.156	4.159	(0.600)	72946	10.0000	10.3037(QM)
S	3 2-Fluorophenol	112	5.514	5.518	(0.795)	91850	10.0000	10.5887(Q)
S	4 Phenol-d5	99	5.818	5.812	(0.839)	111539	10.0000	10.4863(Q)
	5 Phenol	94	6.526	6.571	(0.941)	135187	10.0000	10.4002(Q)
	6 Aniline	66	6.567	6.582	(0.947)	144451	10.0000	10.6200(QMH)
	7 bis(2-Chloroethyl)ether	63	6.628	6.653	(0.954)	77[illegible]	10.0000	10.4002(Q)
	8 2-Chlorophenol	128	6.704	6.725	(0.965)	12[illegible]	10.0000	10.3799(Q)
	9 1,3-Dichlorobenzene	146	6.874	6.878	(0.991)	121280	10.0000	10.2006(Q)
*	10 1,4-Dichlorobenzene-d4	152	6.935	6.939	(1.000)	365[illegible]	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	6.945	6.960	(1.001)	12[illegible]	10.0000	10.1337(Q)
	12 Benzyl alcohol	108	7.088	7.133	(1.022)	66310	10.0000	10.4160(Q)
	13 1,2-Dichlorobenzene	146	7.129	7.133	(1.028)	124910	10.0000	10.2006(Q)
	14 2-Methylphenol	107	7.211	7.236	(1.040)	76172	10.0000	10.2867(Q)

11/22/05 BVD

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Report Date: 30-Nov-2004 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.242	7.256	(1.044)	209843	10.0000	10.4604
	16 4-Methylphenol	107	7.395	7.450	(1.066)	112895	10.0000	10.0466(Q)
	17 N-Nitroso-di-n-propylamine	70	7.395	7.471	(1.066)	60472	10.0000	10.5109(Q)
	18 Hexachloroethane	117	7.518	7.522	(1.084)	56424	10.0000	10.2534(Q)
$	19 Nitrobenzene-d5	82	7.579	7.614	(0.899)	104353	10.0000	10.3670(Q)
	20 Nitrobenzene	77	7.599	7.634	(0.902)	98974	10.0000	10.3716(Q)
	21 Isophorone	82	7.876	7.982	(0.934)	211171	10.0000	10.6109
	22 2-Nitrophenol	139	7.978	7.992	(0.947)	72432	10.0000	10.3275(Q)
	23 2,4-Dimethylphenol	122	8.019	8.064	(0.951)	75521	10.0000	9.8794(Q)
	24 bis(2-Chloroethoxy)methane	93	8.121	8.156	(0.964)	130600	10.0000	10.3281(Q)
	25 2,4-Dichlorophenol	162	8.264	8.299	(0.981)	107480	10.0000	10.5416(Q)
	26 Benzoic acid	122	8.141	8.361	(0.966)	13194	10.0000	10.0000(Q)
	27 1,2,4-Trichlorobenzene	180	8.356	8.371	(0.992)	181122	10.0000	10.4498(Q)
*	28 Naphthalene-d8	136	8.428	8.442	(1.000)	1321420	40.0000	
	29 Naphthalene	128	8.448	8.473	(1.002)	338070	10.0000	10.2679
	30 4-Chloroaniline	127	8.520	8.544	(1.011)	108951	10.0000	9.8506(Q)
	31 Hexachlorobutadiene	225	8.591	8.606	(1.019)	85534	10.0000	10.2455(Q)
	32 4-Chloro-3-methylphenol	107	9.102	9.127	(1.080)	93447	10.0000	10.1964(Q)
	33 2-Methylnaphthalene	142	9.276	9.301	(1.101)	240733	10.0000	10.3066(Q)
	34 Hexachlorocyclopentadiene	237	9.470	9.485	(0.897)	43240	10.0000	10.0000(Q)
	35 2,4,6-Trichlorophenol	196	9.634	9.659	(0.913)	92187	10.0000	10.8616(Q)
	36 2,4,5-Trichlorophenol	196	9.675	9.710	(0.917)	93780	10.0000	10.5874(Q)
$	37 2-Fluorobiphenyl	172	9.726	9.740	(0.922)	280034	10.0000	10.4116(Q)
	38 2-Chloronaphthalene	162	9.869	9.894	(0.935)	227659	10.0000	10.6244(Q)
	39 2-Nitroaniline	65	10.012	10.047	(0.949)	62961	10.0000	10.7133(aQ)
	40 Dimethylphthalate	163	10.217	10.252	(0.968)	333980	10.0000	10.5202
	41 2,6-Dinitrotoluene	165	10.298	10.354	(0.976)	75824	10.0000	10.8573(Q)
	42 Acenaphthylene	152	10.386	10.405	(0.984)	374250	10.0000	10.5953
	43 3-Nitroaniline	138	10.523	10.564	(0.997)	47082	10.0000	9.2555(aQ)
*	44 Acenaphthene-d10	164	10.554	10.565	(1.000)	895523	40.0000	(Q)
	45 Acenaphthene	154	10.594	10.620	(1.004)	203454	10.0000	10.4015(Q)
	46 2,4-Dinitrophenol	184	10.646	10.695	(1.009)	19976	10.0000	(aQ)
	47 4-Nitrophenol	109	10.728	10.794	(1.017)	26908	10.0000	(aQ)
	48 Dibenzofuran	168	10.799	10.824	(1.023)	365913	10.0000	10.6364(Q)
	49 2,4-Dinitrotoluene	165	10.799	10.855	(1.023)	100492	10.0000	11.0610(Q)
	50 Diethylphthalate	149	11.075	11.131	(1.049)	342126	10.0000	10.6766
	51 4-Chlorophenyl-phenylether	204	11.208	11.233	(1.062)	162159	10.0000	10.6093(Q)
	52 Fluorene	166	11.219	11.254	(1.063)	285840	10.0000	10.4729(Q)
	53 4-Nitroaniline	138	11.270	11.366	(1.068)	39726	10.0000	10.0000(aQ)
	54 4,6-Dinitro-2-methylphenol	198	11.300	11.377	(0.913)	46089	10.0000	10.0000(aQ)
	55 N-Nitrosodiphenylamine	169	11.351	11.407	(0.917)	184344	10.0000	10.4346(Q)
	56 Azobenzene	77	11.403	11.438	(0.922)	251019	10.0000	10.3868(Q)
$	57 2,4,6-Tribromophenol	330	11.515	11.550	(1.091)	63704	10.0000	11.0566(Q)
	58 4-Bromophenyl-phenylether	248	11.801	11.826	(0.954)	97902	10.0000	10.5398(Q)
	59 Hexachlorobenzene	284	11.904	11.938	(0.962)	123406	10.0000	10.5707(Q)
	60 Pentachlorophenol	266	12.149	12.174	(0.982)	59698	10.0000	10.0000(aQ)
*	61 Phenanthrene-d10	188	12.374	12.388	(1.000)	1635519	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Report Date: 30-Nov-2004 10:48

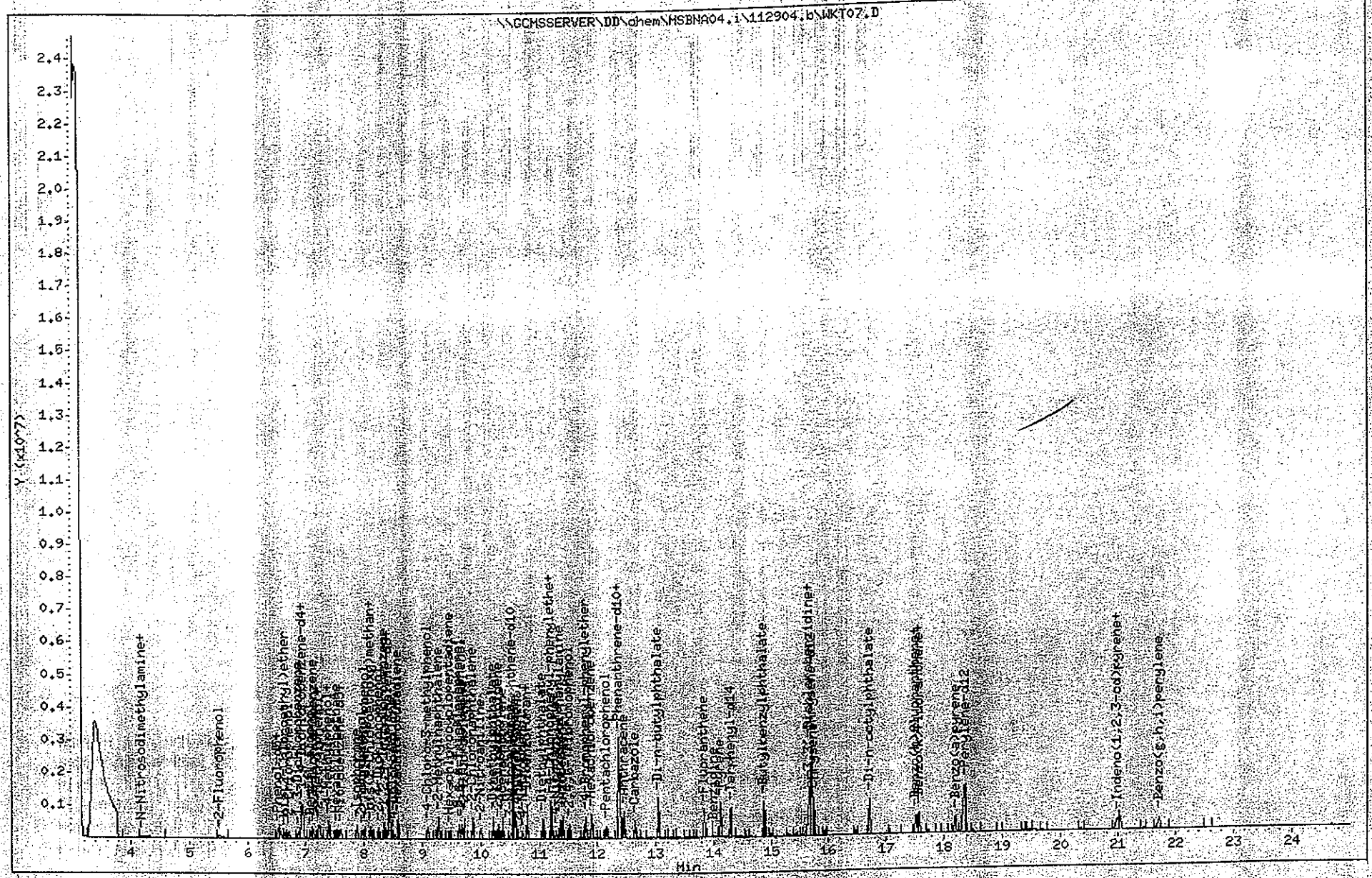
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	62 Phenanthrene	178	12.394	12.429	(1.002)	392643	10.0000	10.2788
	63 Anthracene	178	12.456	12.491	(1.007)	396743	10.0000	10.3028
	64 Carbazole	167	12.650	12.685	(1.022)	267188	10.0000	9.5998
	65 Di-n-butylphthalate	149	13.049	13.074	(1.055)	666150	10.0000	10.5329
	66 Fluoranthene	202	13.846	13.871	(1.119)	484327	10.0000	10.2841
	67 Benzidine	184	13.999	14.014	(0.891)	20999	10.0000	9.8358(Q)
	68 Pyrene	202	14.122	14.157	(0.899)	504698	10.0000	10.4705
S	69 Terphenyl-d14	244	14.296	14.321	(0.910)	396611	10.0000	10.4409
	70 Butylbenzylphthalate	149	14.879	14.903	(0.947)	308566	10.0000	10.5183(Q)
	71 3,3'-Dichlorobenzidine	252	15.635	15.690	(0.995)	111403	10.0000	9.4215(aQ)
	72 bis(2-Ethylhexyl)phthalate	149	15.656	15.690	(0.997)	460425	10.0000	10.5061
	73 Benzo(a)anthracene	228	15.676	15.711	(0.998)	493011	10.0000	10.1843
*	74 Chrysene-d12	240	15.707	15.742	(1.000)	1556139	40.0000	
	75 Chrysene	228	15.737	15.793	(1.002)	440408	10.0000	10.3613
	76 Di-n-octylphthalate	149	16.709	16.743	(0.910)	783346	10.0000	10.8947
	77 Benzo(b)fluoranthene	252	17.526	17.613	(0.954)	469511	10.0000	10.0000(M)
	78 Benzo(k)fluoranthene	252	17.578	17.674	(0.957)	466072	10.0000	10.3846(A)
	79 Benzo(a)pyrene	252	18.201	18.277	(0.991)	417053	10.0000	10.6625
*	80 Perylene-d12	264	18.365	18.389	(1.000)	1394068	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	20.982	21.129	(1.143)	485264	10.0000	10.8360
	82 Dibenz(a,h)anthracene	278	21.033	21.170	(1.145)	383558	10.0000	10.9672
	83 Benzo(g,h,i)perylene	276	21.718	21.835	(1.183)	399322	10.0000	10.7046

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Date : 29-NOV-2004 13:04
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1857
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Report Date: 30-Nov-2004 10:48

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 13:39 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1858
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:48 target Quant Type: ISTD
Cal Date : 29-NOV-2004 13:39 Cal File: WKT08.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.174	4.179	(0.601)	94287	20.0000	20.2730(QM)
	2 Pyridine	79	4.[illegible]	4.199	(0.605)	146613	20.0000	19.9233(QM)
S	3 2-Fluorophenol	112	5.513	5.516	(0.792)	[illegible]	20.0000	20.6920(Q)
S	4 Phenol-d5	99	5.515	5.551	(0.[illegible])	[illegible]	20.0000	20.4551(Q)
	5 Phenol	94	6.536	6.571	(0.941)	267[illegible]	20.0000	20.6572(Q)
	6 Aniline	66	6.566	6.582	(0.941)	143[illegible]	20.0000	21.7522(QMH)
	7 bis(2-Chloroethyl)ether	63	6.620	6.653	(0.[illegible])	150382	20.0000	20.4653(Q)
	8 2-Chlorophenol	128	6.699	6.725	(0.965)	217[illegible]	20.0000	20.5883(Q)
	9 1,3-Dichlorobenzene	146	6.873	6.878	(0.991)	270672	20.0000	20.3338(Q)
*	10 1,4-Dichlorobenzene-d4	152	6.935	6.939	(1.000)	98[illegible]	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	6.955	6.960	(1.003)	271628	20.0000	20.4379(Q)
	12 Benzyl alcohol	108	7.098	7.133	(1.024)	140428	20.0000	20.7717(Q)
	13 1,2-Dichlorobenzene	146	7.129	7.133	(1.028)	251654	20.0000	19.8211(Q)
	14 2-Methylphenol	107	7.221	7.236	(1.041)	160800	20.0000	20.5592(Q)

Jetta 12/03
BVD

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Report Date: 30-Nov-2004 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.241	7.256	(1.044)	422220	20.0000	20.1389
	16 4-Methylphenol	107	7.395	7.450	(1.066)	247686	20.0000	20.7614(Q)
	17 N-Nitroso-di-n-propylamine	70	7.405	7.471	(1.068)	122785	20.0000	20.3254(Q)
	18 Hexachloroethane	117	7.517	7.522	(1.084)	115386	20.0000	20.0886(Q)
$	19 Nitrobenzene-d5	82	7.579	7.614	(0.899)	218645	20.0000	20.7020(Q)
	20 Nitrobenzene	77	7.609	7.634	(0.903)	200823	20.0000	20.2749(Q)
	21 Isophorone	82	7.885	7.982	(0.936)	424984	20.0000	20.4717
	22 2-Nitrophenol	139	7.977	7.992	(0.947)	155178	20.0000	20.9527(Q)
	23 2,4-Dimethylphenol	122	8.018	8.064	(0.951)	167427	20.0000	20.8146(Q)
	24 bis(2-Chloroethoxy)methane	93	8.131	8.156	(0.965)	265299	20.0000	20.2340(Q)
	25 2,4-Dichlorophenol	162	8.264	8.299	(0.981)	221569	20.0000	20.7083(Q)
	26 Benzoic acid	122	8.161	8.361	(0.968)	29016	20.0000	20.0000(Q)
	27 1,2,4-Trichlorobenzene	180	8.356	8.371	(0.992)	266262	20.0000	20.3861(Q)
*	28 Naphthalene-d8	136	8.427	8.442	(1.000)	1362155	40.0000	
	29 Naphthalene	128	8.458	8.473	(1.004)	683789	20.0000	20.1101
	30 4-Chloroaniline	127	8.519	8.544	(1.011)	246155	20.0000	21.0327
	31 Hexachlorobutadiene	225	8.601	8.606	(1.021)	178911	20.0000	20.5196(Q)
	32 4-Chloro-3-methylphenol	107	9.102	9.127	(1.080)	194846	20.0000	20.4122(Q)
	33 2-Methylnaphthalene	142	9.286	9.301	(1.102)	501015	20.0000	20.6005(Q)
	34 Hexachlorocyclopentadiene	237	9.470	9.485	(0.896)	111197	20.0000	22.1810(Q)
	35 2,4,6-Trichlorophenol	196	9.633	9.659	(0.912)	195466	20.0000	21.4740(Q)
	36 2,4,5-Trichlorophenol	196	9.674	9.710	(0.916)	203617	20.0000	21.4485(Q)
$	37 2-Fluorobiphenyl	172	9.725	9.740	(0.921)	576226	20.0000	20.4877(Q)
	38 2-Chloronaphthalene	162	9.879	9.894	(0.935)	464486	20.0000	20.6463(Q)
	39 2-Nitroaniline	65	10.012	10.047	(0.948)	126364	20.0000	20.5368(aQ)
	40 Dimethylphthalate	163	10.226	10.252	(0.968)	669009	20.0000	20.2658
	41 2,6-Dinitrotoluene	165	10.308	10.354	(0.976)	155191	20.0000	20.9840(Q)
	42 Acenaphthylene	152	10.380	10.405	(0.983)	774762	20.0000	20.9119
	43 3-Nitroaniline	138	10.533	10.569	(0.997)	109356	20.0000	19.9759(aQ)
*	44 Acenaphthene-d10	164	10.564	10.569	(1.000)	525142	40.0000	(Q)
	45 Acenaphthene	154	10.594	10.620	(1.003)	444211	20.0000	20.2200(Q)
	46 2,4-Dinitrophenol	184	10.646	10.692	(1.006)	55634	20.0000	20.0000(aQ)
	47 4-Nitrophenol	109	10.727	10.794	(1.015)	62165	20.0000	20.0000(aQ)
	48 Dibenzofuran	168	10.799	10.824	(1.022)	700568	20.0000	20.5606(Q)
	49 2,4-Dinitrotoluene	165	10.799	10.855	(1.022)	207349	20.0000	21.3494(Q)
	50 Diethylphthalate	149	11.075	11.131	(1.048)	696440	20.0000	20.6817
	51 4-Chlorophenyl-phenylether	204	11.208	11.233	(1.061)	324686	20.0000	20.3732(Q)
	52 Fluorene	166	11.218	11.254	(1.062)	576292	20.0000	20.3291(Q)
	53 4-Nitroaniline	138	11.279	11.366	(1.068)	94285	20.0000	20.0000(aQ)
	54 4,6-Dinitro-2-methylphenol	198	11.310	11.377	(0.914)	111491	20.0000	21.8655(aQ)
	55 N-Nitrosodiphenylamine	169	11.361	11.407	(0.918)	368249	20.0000	20.5129(Q)
	56 Azobenzene	77	11.402	11.438	(0.922)	490059	20.0000	20.1426(Q)
$	57 2,4,6-Tribromophenol	330	11.525	11.550	(1.091)	131626	20.0000	21.3631(Q)
	58 4-Bromophenyl-phenylether	248	11.811	11.826	(0.955)	197072	20.0000	20.7522(Q)
	59 Hexachlorobenzene	284	11.913	11.938	(0.963)	244929	20.0000	20.6006(Q)
	60 Pentachlorophenol	266	12.148	12.174	(0.982)	135452	20.0000	21.2289(aQ)
*	61 Phenanthrene-d10	188	12.373	12.388	(1.000)	1640639	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Report Date: 30-Nov-2004 10:48

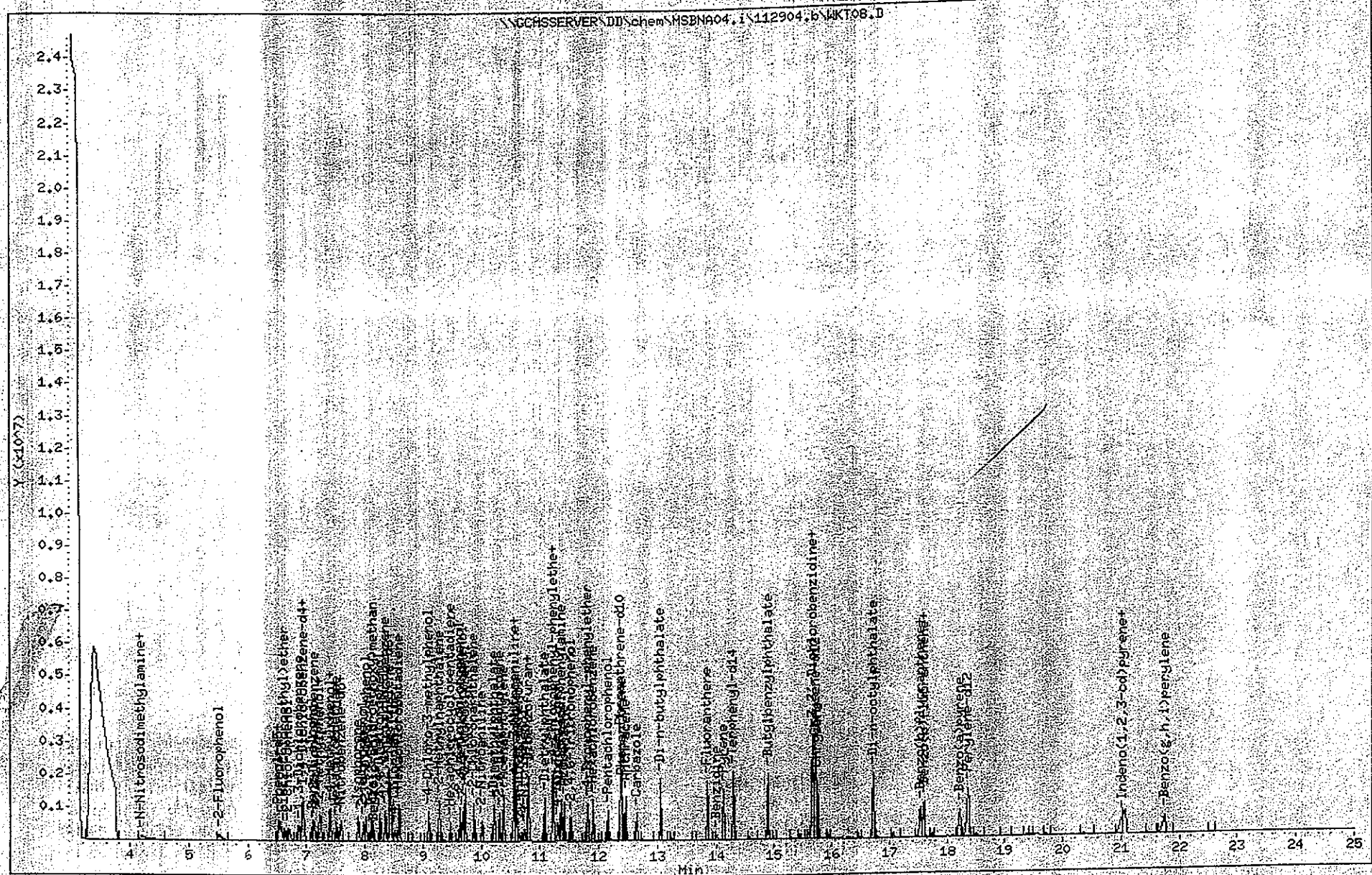
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.404	12.429	(1.002)	774449	20.0000	20.1576
63 Anthracene	178	12.465	12.491	(1.007)	801939	20.0000	20.5648
64 Carbazole	167	12.649	12.685	(1.022)	461326	20.0000	17.5396
65 Di-n-butylphthalate	149	13.058	13.074	(1.055)	1344738	20.0000	20.7818
66 Fluoranthene	202	13.846	13.871	(1.119)	946923	20.0000	20.0330
67 Benzidine	184	14.009	14.014	(0.891)	88698	20.0000	31.0569
68 Pyrene	202	14.132	14.157	(0.899)	987390	20.0000	20.8729
S 69 Terphenyl-d14	244	14.295	14.321	(0.910)	784961	20.0000	20.8793
70 Butylbenzylphthalate	149	14.888	14.903	(0.947)	607222	20.0000	20.9024(Q)
71 3,3'-Dichlorobenzidine	252	15.645	15.690	(0.995)	219198	20.0000	19.4264(Q)
72 bis(2-Ethylhexyl)phthalate	149	15.665	15.690	(0.997)	912705	20.0000	20.9858
73 Benzo(a)anthracene	228	15.686	15.711	(0.998)	955081	20.0000	20.2858
* 74 Chrysene-d12	240	15.716	15.742	(1.000)	1506261	40.0000	
75 Chrysene	228	15.747	15.793	(1.002)	869925	20.0000	20.8459
76 Di-n-octylphthalate	149	16.718	16.743	(0.910)	1527452	20.0000	21.3676
77 Benzo(b)fluoranthene	252	17.536	17.613	(0.955)	891339	20.0000	19.9709(M)
78 Benzo(k)fluoranthene	252	17.597	17.674	(0.958)	967052	20.0000	21.7758(AM)
79 Benzo(a)pyrene	252	18.221	18.277	(0.992)	794266	20.0000	20.8488
* 80 Perylene-d12	264	18.364	18.389	(1.000)	1338593	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.012	21.129	(1.144)	914671	20.0000	20.9385
82 Dibenz(a,h)anthracene	278	21.063	21.170	(1.147)	730531	20.0000	21.2873
83 Benzo(g,h,i)perylene	276	21.748	21.835	(1.184)	749452	20.0000	20.6844

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Date : 29-NOV-2004 13:39
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1858
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Report Date: 30-Nov-2004 10:48

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 14:15 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1859
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:48 target Quant Type: ISTD
Cal Date : 29-NOV-2004 14:15 Cal File: WKT09.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.184	4.179	(0.603)	283165	50.0000	52.7251(Q)
	2 Pyridine	79	4.184	4.199	(0.603)	461524	50.0000	52.5280(Q)
S	3 2-Fluorophenol	112	5.514	5.508	(0.795)	576284	50.0000	52.5039(Q)
S	4 Phenol-d5	99	6.536	6.551	(0.943)	760646	50.0000	52.4682(Q)
	5 Phenol	94	6.556	6.571	(0.945)	735632	50.0000	49.3386(Q)
	6 Aniline	66	6.567	6.582	(0.947)	436562	50.0000	54.5538(QM)
	7 bis(2-Chloroethyl)ether	63	6.638	6.653	(0.957)	457190	50.0000	49.7749(Q)
	8 2-Chlorophenol	128	6.710	6.725	(0.968)	711214	50.0000	51.8331(Q)
	9 1,3-Dichlorobenzene	146	6.873	6.878	(0.991)	793481	50.0000	50.5845(Q)
*	10 1,4-Dichlorobenzene-d4	152	6.935	6.939	(1.000)	446707	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	6.955	6.960	(1.003)	792868	50.0000	50.6151(Q)
	12 Benzyl alcohol	108	7.119	7.133	(1.027)	432166	50.0000	53.2713(Q)
	13 1,2-Dichlorobenzene	146	7.129	7.133	(1.028)	782334	50.0000	50.3605(Q)
	14 2-Methylphenol	107	7.231	7.236	(1.043)	470332	50.0000	50.9171(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Report Date: 30-Nov-2004 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.251	7.256	(1.046)	1152008	50.0000	47.5700
	16 4-Methylphenol	107	7.425	7.450	(1.071)	721233	50.0000	51.1187(Q)
	17 N-Nitroso-di-n-propylamine	70	7.446	7.471	(1.074)	361615	50.0000	50.7438(Q)
	18 Hexachloroethane	117	7.517	7.522	(1.084)	343465	50.0000	50.7035(Q)
§	19 Nitrobenzene-d5	82	7.599	7.614	(0.901)	647175	50.0000	51.8308(Q)
	20 Nitrobenzene	77	7.620	7.634	(0.903)	588294	50.0000	50.6414(Q)
	21 Isophorone	82	7.916	7.982	(0.938)	1294614	50.0000	52.5140(M)
	22 2-Nitrophenol	139	7.988	7.992	(0.947)	474148	50.0000	53.5309(Q)
	23 2,4-Dimethylphenol	122	8.049	8.064	(0.954)	464419	50.0000	49.5798(Q)
	24 bis(2-Chloroethoxy)methane	93	8.141	8.156	(0.965)	780194	50.0000	50.7117(Q)
	25 2,4-Dichlorophenol	162	8.284	8.299	(0.982)	673382	50.0000	52.8603(Q)
	26 Benzoic acid	122	8.284	8.361	(0.982)	258590	50.0000	50.0053(Q)
	27 1,2,4-Tridhlorobenzene	180	8.366	8.371	(0.992)	806384	50.0000	52.1212(Q)
*	28 Naphthalene-d8	136	8.437	8.442	(1.000)	1590746	40.0000	
	29 Naphthalene	128	8.468	8.473	(1.004)	2028345	50.0000	50.8611
	30 4-Chloroaniline	127	8.529	8.544	(1.011)	868476	50.0000	59.5134(Q)
	31 Hexachlorobutadiene	225	8.601	8.606	(1.019)	535933	50.0000	51.9500(Q)
	32 4-Chloro-3-methylphenol	107	9.112	9.127	(1.080)	599029	50.0000	52.7513(Q)
	33 2-Methylnaphthalene	142	9.296	9.301	(1.102)	1621284	50.0000	52.8101(Q)
	34 Hexachlorocyclopentadiene	237	9.480	9.485	(0.897)	401083	50.0000	61.0052(Q)
	35 2,4,6-Trichlorophenol	196	9.644	9.659	(0.913)	595861	50.0000	54.4309(Q)
	36 2,4,5-Trichlorophenol	196	9.695	9.710	(0.918)	604898	50.0000	53.3682(Q)
§	37 2-Fluorobiphenyl	172	9.736	9.740	(0.922)	1700219	50.0000	51.3341(Q)
	38 2-Chloronaphthalene	162	9.889	9.894	(0.936)	1375852	50.0000	51.7779(Q)
	39 2-Nitroaniline	65	10.032	10.047	(0.950)	385350	50.0000	52.6951(Q)
	40 Dimethylphthalate	163	10.247	10.252	(0.970)	1997311	50.0000	51.3667
	41 2,6-Dinitrotoluene	165	10.339	10.354	(0.979)	476126	50.0000	53.7726(Q)
	42 Acenaphthylene	152	10.400	10.405	(0.985)	2303108	50.0000	52.5762
	43 3-Nitroaniline	138	10.543	10.569	(0.998)	410565	50.0000	59.9817(Q)
*	44 Acenaphthene-d10	164	10.564	10.569	(1.000)	1079763	40.0000	(Q)
	45 Acenaphthene	154	10.615	10.620	(1.005)	1315367	50.0000	51.9611(Q)
	46 2,4-Dinitrophenol	184	10.676	10.692	(1.011)	265037	50.0000	50.0000(Q)
	47 4-Nitrophenol	109	10.768	10.794	(1.019)	221332	50.0000	54.6820(Q)
	48 Dibenzofuran	168	10.819	10.824	(1.024)	2040949	50.0000	50.9877(Q)
	49 2,4-Dinitrotoluene	165	10.830	10.855	(1.025)	819388	50.0000	53.4025(Q)
	50 Diethylphthalate	149	11.106	11.131	(1.051)	2105297	50.0000	52.6283
	51 4-Chlorophenyl-phenylether	204	11.228	11.233	(1.063)	928559	50.0000	49.9409(Q)
	52 Fluorene	166	11.239	11.254	(1.064)	1445160	50.0000	49.7789(Q)
	53 4-Nitroaniline	138	11.331	11.366	(1.073)	333982	50.0000	49.9945(Q)
	54 4,6-Dinitro-2-methylphenol	198	11.351	11.377	(0.917)	381005	50.0000	59.2742(Q)
	55 N-Nitrosodiphenylamine	169	11.413	11.407	(0.920)	1394587	50.0000	51.7952(Q)
	56 Azobenzene	77	11.423	11.438	(0.922)	1222299	50.0000	52.4414(Q)
§	57 2,4,6-Tribromophenol	330	11.545	11.550	(1.002)	412354	50.0000	55.3125(Q)
	58 4-Bromophenyl-phenylether	248	11.821	11.826	(0.955)	593670	50.0000	52.4202(Q)
	59 Hexachlorobenzene	284	11.924	11.938	(0.963)	726797	50.0000	51.5452(Q)
	60 Pentachlorophenol	266	12.169	12.174	(0.983)	463889	50.0000	57.3745(Q)
*	61 Phenanthrene-d10	188	12.384	12.388	(1.000)	1925662	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Report Date: 30-Nov-2004 10:48

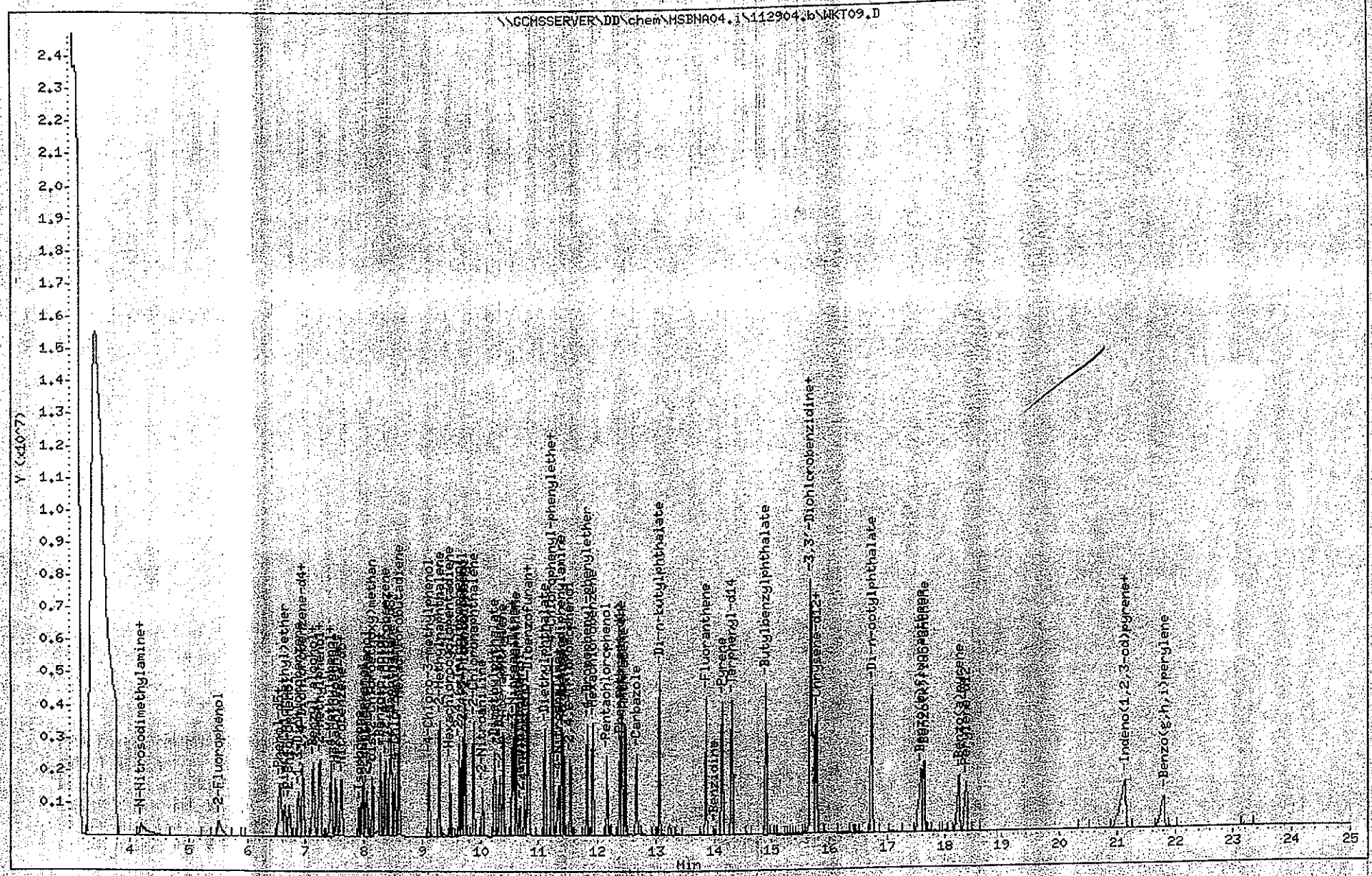
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	62 Phenanthrene	178	12.414	12.429	(1.002)	2383080	50.0000	52.2517
	63 Anthracene	178	12.486	12.491	(1.008)	2361224	50.0000	51.2628
	64 Carbazole	167	12.670	12.685	(1.023)	1540861	50.0000	49.9343
	65 Di-n-butylphthalate	149	13.069	13.074	(1.055)	3566849	50.0000	47.6878
	66 Fluoranthene	202	13.866	13.871	(1.120)	2811177	50.0000	50.5348
	67 Benzidine	184	14.009	14.014	(0.890)	99960	50.0000	33.7963
	68 Pyrene	202	14.142	14.157	(0.899)	2879465	50.0000	52.4078
$	69 Terphenyl-d14	244	14.306	14.321	(0.909)	2211840	50.0000	50.9472
	70 Butylbenzylphthalate	149	14.899	14.903	(0.947)	1741664	50.0000	51.6667(Q)
	71 3,3'-Dichlorobenzidine	252	15.676	15.690	(0.996)	849078	50.0000	60.8388(Q)
	72 bis(2-Ethylhexyl)phthalate	149	15.676	15.690	(0.996)	2271876	50.0000	46.5652(Q)
	73 Benzo(a)anthracene	228	15.706	15.711	(0.998)	2744814	50.0000	50.6427
*	74 Chrysene-d12	240	15.737	15.742	(1.000)	1728427	40.0000	
	75 Chrysene	228	15.778	15.793	(1.003)	2484441	50.0000	51.4945
	76 Di-n-octylphthalate	149	16.739	16.743	(0.910)	4314533	50.0000	55.3764
	77 Benzo(b)fluoranthene	252	17.598	17.613	(0.957)	3272636	50.0000	50.0081
	78 Benzo(k)fluoranthene	252	17.649	17.674	(0.960)	1942560	50.0000	43.0677(AM)
	79 Benzo(a)pyrene	252	18.262	18.277	(0.993)	2122359	50.0000	52.3824
*	80 Perylene-d12	264	18.385	18.389	(1.000)	1406676	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	21.094	21.129	(1.147)	2226985	50.0000	48.8029
	82 Dibenz(a,h)anthracene	278	21.135	21.170	(1.150)	1813534	50.0000	50.2299
	83 Benzo(g,h,i)perylene	276	21.810	21.835	(1.186)	1730711	50.0000	46.2964

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Date : 29-NOV-2004 14:15
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1859
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Report Date: 30-Nov-2004 10:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 14:51 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1860
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:48 target Quant Type: ISTD
Cal Date : 29-NOV-2004 14:51 Cal File: WKT10.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	RECALC'D RT	RT REL RT	RESPONSE	AMOUNTS ALL AMT (NG)	ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.179	4.179 (0.581)	436377	80.0000	83.3921(Q)	
2 Pyridine	79	4.199	4.199 (0.605)	696434	80.0000	84.0795(Q)	
S 3 2-Fluorophenol	112	5.508	5.508 (0.794)	[illegible]	80.0000	83.7785(Q)	
S 4 Phenol,d5	99	6.551	6.551 (0.944)	1028254	80.0000	82.0789(Q)	
5 Phenol	94	6.571	6.571 (0.947)	1060499	80.0000	77.1139(Q)	
6 Aniline	66	6.581	6.581 (0.948)	400151	80.0000	57.5069(QM)	
7 bis(2-Chloroethyl)ether	63	6.653	6.653 (0.959)	662689	80.0000	78.0030(Q)	
8 2-Chlorophenol	128	6.725	6.725 (0.969)	1050133	80.0000	81.7751(Q)	
9 1,3-Dichlorobenzene	146	6.878	6.878 (0.991)	1157986	80.0000	79.4532(Q)	
* 10 1,4-Dichlorobenzene-d4	152	6.939	6.939 (1.000)	415755	40.0000	(Q)	
11 1,4-Dichlorobenzene	146	6.960	6.960 (1.003)	1184123	80.0000	80.9727(Q)	
12 Benzyl alcohol	108	7.133	7.133 (1.028)	622638	80.0000	81.9590(Q)	
13 1,2-Dichlorobenzene	146	7.133	7.133 (1.028)	1120499	80.0000	80.4706(Q)	
14 2-Methylphenol	107	7.236	7.236 (1.043)	679500	80.0000	79.2282(Q)	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Report Date: 30-Nov-2004 10:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.256	7.256	(1.046)	1584561	80.0000	72.0494
	16 4-Methylphenol	107	7.450	7.450	(1.074)	1057329	80.0000	80.4149(M)
	17 N-Nitroso-di-n-propylamine	70	7.471	7.471	(1.077)	515725	80.0000	78.1956(Q)
	18 Hexachloroethane	117	7.522	7.522	(1.084)	499076	80.0000	79.3268(Q)
$	19 Nitrobenzene-d5	82	7.614	7.614	(0.902)	918314	80.0000	80.6437(Q)
	20 Nitrobenzene	77	7.634	7.634	(0.904)	851103	80.0000	80.3973(Q)
	21 Isophorone	82	7.982	7.982	(0.946)	1818165	80.0000	80.8134(M)
	22 2-Nitrophenol	139	7.992	7.992	(0.947)	744256	80.0000	89.5623(Q)
	23 2,4-Dimethylphenol	122	8.064	8.064	(0.955)	681301	80.0000	79.9297(Q)
	24 bis(2-Chloroethoxy)methane	93	8.156	8.156	(0.966)	1116096	80.0000	79.7653(Q)
	25 2,4-Dichlorophenol	162	8.299	8.299	(0.983)	995887	80.0000	84.6522(Q)
	26 Benzoic acid	122	8.360	8.360	(0.990)	501548	80.0000	79.7831(M)
	27 1,2,4-Trichlorobenzene	180	8.371	8.371	(0.992)	1162143	80.0000	82.0125(Q)
*	28 Naphthalene-d8	136	8.442	8.442	(1.000)	1447815	40.0000	
	29 Naphthalene	128	8.473	8.473	(1.004)	2822164	80.0000	78.1182
	30 4-Chloroaniline	127	8.544	8.544	(1.012)	1218529	80.0000	89.1277(Q)
	31 Hexachlorobutadiene	225	8.606	8.606	(1.019)	745520	80.0000	79.5196(Q)
	32 4-Chloro-3-methylphenol	107	9.127	9.127	(1.081)	868974	80.0000	83.2291(Q)
	33 2-Methylnaphthalene	142	9.301	9.301	(1.102)	2093260	80.0000	79.8662(Q)
	34 Hexachlorocyclopentadiene	237	9.485	9.485	(0.897)	599804	80.0000	95.0234(Q)
	35 2,4,6-Trichlorophenol	196	9.659	9.659	(0.914)	883048	80.0000	87.5219(Q)
	36 2,4,5-Trichlorophenol	196	9.710	9.710	(0.919)	889855	80.0000	85.6838(Q)
$	37 2-Fluorobiphenyl	172	9.740	9.740	(0.922)	2405763	80.0000	80.5654(Q)
	38 2-Chloronaphthalene	162	9.894	9.894	(0.936)	1961940	80.0000	81.6229(Q)
	39 2-Nitroaniline	65	10.047	10.047	(0.951)	548624	80.0000	82.6647(Q)
	40 Dimethylphthalate	163	10.252	10.252	(0.970)	2899126	80.0000	82.2598
	41 2,6-Dinitrotoluene	165	10.354	10.354	(0.980)	694717	80.0000	85.6415(Q)
	42 Acenaphthylene	152	10.405	10.405	(0.985)	3142956	80.0000	79.7678
	43 3-Nitroaniline	138	10.569	10.569	(1.000)	608422	80.0000	94.3395(Q)
*	44 Acenaphthene-d10	164	10.569	10.569	(1.000)	971776	40.0000	(Q)
	45 Acenaphthene	154	10.620	10.620	(1.005)	1835915	80.0000	80.4918(Q)
	46 2,4-Dinitrophenol	184	10.691	10.691	(1.012)	425943	80.0000	80.0000(Q)
	47 4-Nitrophenol	109	10.793	10.793	(1.021)	359569	80.0000	91.5692(Q)
	48 Dibenzofuran	168	10.824	10.824	(1.024)	2802569	80.0000	80.0126(Q)
	49 2,4-Dinitrotoluene	165	10.855	10.855	(1.027)	879660	80.0000	83.3804(Q)
	50 Diethylphthalate	149	11.131	11.131	(1.053)	2872008	80.0000	79.8180
	51 4-Chlorophenyl-phenylether	204	11.233	11.233	(1.063)	1266619	80.0000	76.4191(Q)
	52 Fluorene	166	11.253	11.253	(1.065)	2308505	80.0000	78.0002(Q)
	53 4-Nitroaniline	138	11.366	11.366	(1.075)	551207	80.0000	79.9231(Q)
	54 4,6-Dinitro-2-methylphenol	198	11.376	11.376	(0.918)	504398	80.0000	94.8251(Q)
	55 N-Nitrosodiphenylamine	169	11.407	11.407	(0.921)	1614[illegible]	80.0000	82.7705(Q)
	56 Azobenzene	77	11.438	11.438	(0.923)	2146397	80.0000	81.2454(Q)
$	57 2,4,6-Tribromophenol	330	11.550	11.550	(1.093)	569249	80.0000	83.8267(Q)
	58 4-Bromophenyl-phenylether	248	11.826	11.826	(0.955)	848243	80.0000	82.0599(Q)
	59 Hexachlorobenzene	284	11.938	11.938	(0.964)	969976	80.0000	76.6721(Q)
	60 Pentachlorophenol	266	12.174	12.174	(0.983)	681795	80.0000	89.3819(Q)
*	61 Phenanthrene-d10	188	12.388	12.388	(1.000)	1745709	40.0000	

Interfering 8-PND

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Report Date: 30-Nov-2004 10:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.429	12.429	(1.003)	3276778	80.0000	79.3767
63 Anthracene	178	12.491	12.491	(1.008)	3249878	80.0000	78.1824
64 Carbazole	167	12.685	12.685	(1.024)	2589255	80.0000	89.7413
65 Di-n-butylphthalate	149	13.073	13.073	(1.055)	4818521	80.0000	72.6871
66 Fluoranthene	202	13.871	13.871	(1.120)	4048490	80.0000	80.2326
67 Benzidine	184	14.014	14.014	(0.890)	258690	80.0000	94.0482
68 Pyrene	202	14.157	14.157	(0.899)	3945826	80.0000	80.6401
$ 69 Terphenyl-d14	244	14.321	14.321	(0.910)	2950430	80.0000	77.1201
70 Butylbenzylphthalate	149	14.903	14.903	(0.947)	2518596	80.0000	83.1911(Q)
71 3,3'-Dichlorobenzidine	252	15.690	15.690	(0.997)	1217526	80.0000	93.8642(Q)
72 bis(2-Ethylhexyl)phthalate	149	15.690	15.690	(0.997)	2981619	80.0000	70.7235(Q)
73 Benzo(a)anthracene	228	15.711	15.711	(0.998)	3877300	80.0000	80.3795
* 74 Chrysene-d12	240	15.742	15.742	(1.000)	1536833	40.0000	
75 Chrysene	228	15.793	15.793	(1.003)	3398640	80.0000	79.3530
76 Di-n-octylphthalate	149	16.743	16.743	(0.910)	5925705	80.0000	91.4655
77 Benzo(b)fluoranthene	252	17.612	17.612	(0.958)	4196289	80.0000	79.3771
78 Benzo(k)fluoranthene	252	17.674	17.674	(0.961)	2840509	80.0000	78.7880(AMH)
79 Benzo(a)pyrene	252	18.277	18.277	(0.994)	2818714	80.0000	85.5665
* 80 Perylene-d12	264	18.389	18.389	(1.000)	1127773	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.129	21.129	(1.149)	2805554	80.0000	77.2196
82 Dibenz(a,h)anthracene	278	21.170	21.170	(1.151)	2284907	80.0000	79.4118
83 Benzo(g,h,i)perylene	276	21.835	21.835	(1.187)	2158048	80.0000	73.2237

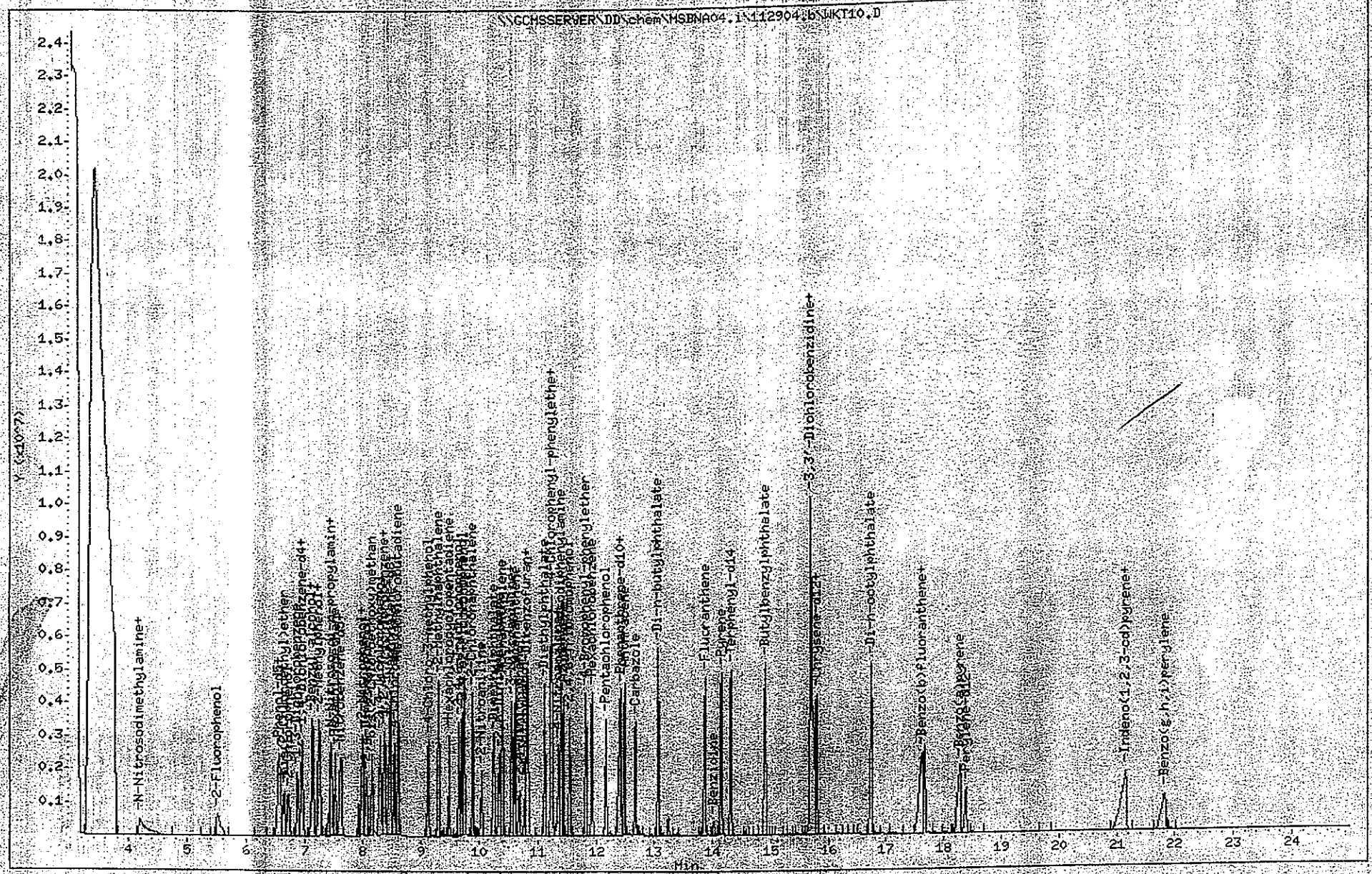
Letter/Bates 8/1/05

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Date : 29-NOV-2004 14:51
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1860
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Report Date: 30-Nov-2004 10:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 15:26 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1923
Misc Info : 100ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:49 target Quant Type: ISTD
Cal Date : 29-NOV-2004 15:26 Cal File: WKT11.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.183	4.179	(0.602)	542800	100.000	99.8072(Q)
	2 Pyridine	79	4.183	4.199	(0.602)	887900	100.000	102.5315(Q)
$	3 2-Fluorophenol	112	5.512	5.508	(0.794)	1089821	100.000	101.1373(Q)
$	4 Phenol-d5	99	6.565	6.551	(0.946)	1287169	100.000	98.9787(Q)
	5 Phenol	94	6.575	6.571	(0.947)	1300947	100.000	92.3369(Q)
	6 Aniline	66	6.596	6.581	(0.950)	400216	100.000	59.7456(QM)
	7 bis(2-Chloroethyl)ether	63	6.657	6.653	(0.959)	934662	100.000	95.3314(Q)
	8 2-Chlorophenol	128	6.729	6.725	(0.969)	1313822	100.000	98.6262(Q)
	9 1,3-Dichlorobenzene	146	6.802	6.878	(0.991)	1431774	100.000	95.4939(Q)
*	10 1,4-Dichlorobenzene-d4	152	6.943	6.939	(1.000)	432464	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	6.964	6.960	(1.003)	1476985	100.000	97.5690(Q)
	12 Benzyl alcohol	108	7.158	7.133	(1.031)	772492	100.000	98.1228(Q)
	13 1,2-Dichlorobenzene	146	7.138	7.133	(1.028)	1369882	100.000	95.4417(Q)
	14 2-Methylphenol	107	7.250	7.236	(1.044)	812615	100.000	92.4616(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Report Date: 30-Nov-2004 10:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.260	7.256	(1.046)	1852090	100.000	83.6134
	16 4-Methylphenol	107	7.465	7.450	(1.075)	1339211	100.000	98.2590(QM)
	17 N-Nitroso-di-n-propylamine	70	7.485	7.471	(1.078)	645012	100.000	94.9663(M)
	18 Hexachloroethane	117	7.516	7.522	(1.082)	615732	100.000	95.0240(Q)
$	19 Nitrobenzene-d5	82	7.618	7.614	(0.902)	1156010	100.000	96.6000(Q)
	20 Nitrobenzene	77	7.638	7.634	(0.904)	1060637	100.000	95.5382(Q)
	21 Isophorone	82	8.006	7.982	(0.948)	2271421	100.000	96.1542(M)
	22 2-Nitrophenol	139	7.996	7.992	(0.947)	955359	100.000	107.1125(QM)
	23 2,4-Dimethylphenol	122	8.078	8.064	(0.956)	939595	100.000	103.4628(QM)
	24 bis(2-Chloroethoxy)methane	93	8.160	8.156	(0.966)	1386862	100.000	94.6757(Q)
	25 2,4-Dichlorophenol	162	8.303	8.299	(0.983)	1247485	100.000	100.1837(Q)
	26 Benzoic acid	122	8.395	8.360	(0.994)	672559	100.000	97.9342(M)
	27 1,2,4-Trichlorobenzene	180	8.375	8.371	(0.992)	1445995	100.000	97.0189(Q)
*	28 Naphthalene-d8	136	8.446	8.442	(1.000)	1531864	40.0000	
	29 Naphthalene	128	8.477	8.473	(1.004)	3448091	100.000	91.4871
	30 4-Chloroaniline	127	8.548	8.544	(1.012)	1550178	100.000	105.9000(Q)
	31 Hexachlorobutadiene	225	8.610	8.606	(1.019)	909136	100.000	92.9442(Q)
	32 4-Chloro-3-methylphenol	107	9.131	9.127	(1.081)	1090726	100.000	98.9447(Q)
	33 2-Methylnaphthalene	142	9.305	9.301	(1.102)	2468067	100.000	90.4209(Q)
	34 Hexachlorocyclopentadiene	237	9.489	9.485	(0.898)	764921	100.000	110.0241(Q)
	35 2,4,6-Trichlorophenol	196	9.663	9.659	(0.914)	1087092	100.000	100.2825(Q)
	36 2,4,5-Trichlorophenol	196	9.714	9.710	(0.919)	1083191	100.000	97.5974(Q)
$	37 2-Fluorobiphenyl	172	9.755	9.740	(0.923)	2821802	100.000	89.7980(Q)
	38 2-Chloronaphthalene	162	9.898	9.894	(0.936)	2449261	100.000	95.7075(Q)
	39 2-Nitroaniline	65	10.061	10.047	(0.952)	671076	100.000	95.0897(Q)
	40 Dimethylphthalate	163	10.266	10.252	(0.971)	3578335	100.000	95.4190
	41 2,6-Dinitrotoluene	165	10.358	10.354	(0.980)	874079	100.000	100.2880(Q)
	42 Acenaphthylene	152	10.409	10.405	(0.985)	3797640	100.000	91.0912
	43 3-Nitroaniline	138	10.573	10.569	(1.000)	757822	100.000	107.7350(Q)
*	44 Acenaphthene-d10	164	10.573	10.569	(1.000)	1043504	40.0000	(Q)
	45 Acenaphthene	154	10.624	10.620	(1.005)	2245112	100.000	92.7706(Q)
	46 2,4-Dinitrophenol	184	10.705	10.691	(1.013)	562056	100.000	99.2683(Q)
	47 4-Nitrophenol	109	10.808	10.793	(1.022)	955159	100.000	105.8411(QH)
	48 Dibenzofuran	168	10.838	10.824	(1.025)	3393046	100.000	89.5426(Q)
	49 2,4-Dinitrotoluene	165	10.869	10.855	(1.028)	1973806	100.000	95.6174(Q)
	50 Diethylphthalate	149	11.145	11.131	(1.054)	3488436	100.000	91.5926
	51 4-Chlorophenyl-phenylether	204	11.237	11.233	(1.063)	1551369	100.000	89.1920(Q)
	52 Fluorene	166	11.258	11.253	(1.065)	2717542	100.000	87.3169(Q)
	53 4-Nitroaniline	138	11.380	11.366	(1.076)	692415	100.000	97.2485(Q)
	54 4,6-Dinitro-2-methylphenol	198	11.390	11.376	(0.918)	746872	100.000	108.6688(Q)
	55 N-Nitrosodiphenylamine	169	11.411	11.407	(0.920)	1970291	100.000	96.4493(Q)
	56 Azobenzene	77	11.442	11.438	(0.923)	2753003	100.000	98.9814(Q)
$	57 2,4,6-Tribromophenol	330	11.564	11.550	(1.094)	667828	100.000	92.8864(Q)
	58 4-Bromophenyl-phenylether	248	11.840	11.826	(0.955)	1002745	100.000	93.2047(Q)
	59 Hexachlorobenzene	284	11.942	11.938	(0.963)	1191333	100.000	90.8916(Q)
	60 Pentachlorophenol	266	12.188	12.174	(0.983)	837385	100.000	103.2239(Q)
*	61 Phenanthrene-d10	188	12.403	12.388	(1.000)	1841611	40.0000	

Attach 8 pm

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Report Date: 30-Nov-2004 10:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	62 Phenanthrene	178	12.433	12.429	(1.002)	4066061	100.000	94.2603
	63 Anthracene	178	12.505	12.491	(1.008)	3922456	100.000	90.8176
	64 Carbazole	167	12.689	12.685	(1.023)	3229087	100.000	105.0234
	65 Di-n-butylphthalate	149	13.077	13.073	(1.054)	6025909	100.000	88.2004
	66 Fluoranthene	202	13.885	13.871	(1.120)	4649437	100.000	88.9521
	67 Benzidine	184	14.018	14.014	(0.890)	169818	100.000	64.6382
	68 Pyrene	202	14.161	14.157	(0.899)	4780348	100.000	96.1421
$	69 Terphenyl-d14	244	14.325	14.321	(0.909)	3590815	100.000	93.0521
	70 Butylbenzylphthalate	149	14.917	14.903	(0.947)	2915181	100.000	95.0808(Q)
	71 3,3'-Dichlorobenzidine	252	15.705	15.690	(0.997)	1360718	100.000	102.1378(Q)
	72 bis(2-Ethylhexyl)phthalate	149	15.694	15.690	(0.996)	3501692	100.000	83.8417(Q)
	73 Benzo(a)anthracene	228	15.725	15.711	(0.998)	4470518	100.000	91.8522
*	74 Chrysene-d12	240	15.756	15.742	(1.000)	1571698	40.0000	
	75 Chrysene	228	15.807	15.793	(1.003)	4081075	100.000	94.0907
	76 Di-n-octylphthalate	149	16.747	16.743	(0.911)	7002822	100.000	109.2539
	77 Benzo(b)fluoranthene	252	17.627	17.612	(0.958)	5021943	100.000	99.2652
	78 Benzo(k)fluoranthene	252	17.678	17.674	(0.961)	3149623	100.000	91.2750(AMH)
	79 Benzo(a)pyrene	252	18.291	18.277	(0.994)	3199743	100.000	100.0251
*	80 Perylene-d12	264	18.393	18.389	(1.000)	1095121	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	21.144	21.129	(1.150)	3088075	100.000	89.1174
	82 Dibenz(a,h)anthracene	278	21.184	21.170	(1.152)	2520844	100.000	91.2012
	83 Benzo(g,h,i)perylene	276	21.849	21.835	(1.188)	2371821	100.000	84.9548

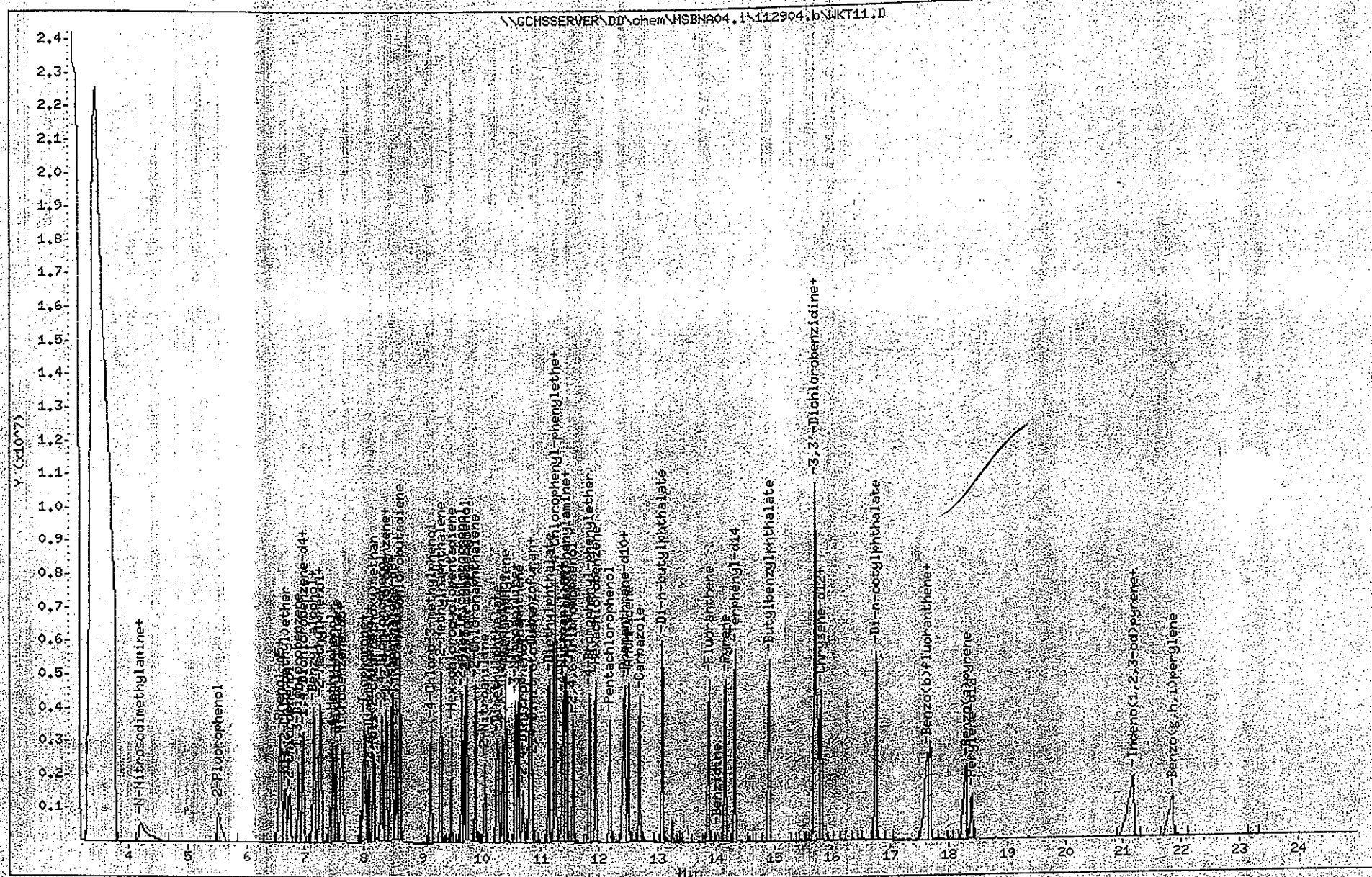
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Date : 29-NOV-2004 15:26
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1923
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i

Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Report Date: 30-Nov-2004 10:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 16:02 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1861
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:49 target Quant Type: ISTD
Cal Date : 29-NOV-2004 16:02 Cal File: WKT12.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.184	4.179	(0.602)	818609	120.000	129.2569(Q)
2 Pyridine	79	4.184	4.199	(0.602)	1375656	120.000	131.1974(Q)
S 3 2-Fluorophenol	112	5.524	5.508	(0.794)	1641305	120.000	130.5596(Q)
S 4 Phenol-d5	99	6.587	6.551	(0.947)	1884313	120.000	125.1478(Q)
5 Phenol	94	6.607	6.571	(0.950)	1906636	120.000	118.0435(Q)
6 Aniline	66	6.617	6.581	(0.951)	533298	120.000	73.7093(QM)
7 bis(2-Chloroethyl)ether	63	6.679	6.653	(0.960)	1343553	120.000	131.3830(QM)
8 2-Chlorophenol	128	6.750	6.725	(0.971)	1973724	120.000	127.5410(Q)
9 1,3-Dichlorobenzene	146	6.883	6.878	(0.990)	2175539	120.000	125.0741(Q)
* 10 1,4-Dichlorobenzene-d4	152	6.955	6.939	(1.000)	497130	40.0000	(Q)
11 1,4-Dichlorobenzene	146	6.975	6.960	(1.003)	2094113	120.000	120.2927(Q)
12 Benzyl alcohol	108	7.190	7.133	(1.034)	1190824	120.000	129.7942(Q)
13 1,2-Dichlorobenzene	146	7.149	7.133	(1.028)	1943247	120.000	118.0901(Q)
14 2-Methylphenol	107	7.262	7.236	(1.044)	1118191	120.000	111.9226(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Report Date: 30-Nov-2004 10:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
15 bis(2-Chloroisopropyl) ether	45	7.282	7.256	(1.047)	2400463	120.000	97.2519(Q)
16 4-Methylphenol	107	7.497	7.450	(1.078)	1997565	120.000	126.3702(QM)
17 N-Nitroso-di-n-propylamine	70	7.517	7.471	(1.081)	819350	120.000	106.8579(QH)
18 Hexachloroethane	117	7.527	7.522	(1.082)	820624	120.000	111.4751(Q)
$ 19 Nitrobenzene-d5	82	7.640	7.614	(0.903)	1740436	120.000	124.3771(Q)
20 Nitrobenzene	77	7.660	7.634	(0.906)	1554514	120.000	120.4124(Q)
21 Isophorone	82	8.049	7.982	(0.952)	3350308	120.000	121.7367(M)
22 2-Nitrophenol	139	8.008	7.992	(0.947)	1399624	120.000	132.6486(Q)
23 2,4-Dimethylphenol	122	8.110	8.064	(0.959)	1456039	120.000	135.0664(QM)
24 bis(2-Chloroethoxy)methane	93	8.192	8.156	(0.969)	1989283	120.000	117.2871(M)
25 2,4-Dichlorophenol	162	8.325	8.299	(0.984)	1824297	120.000	125.1598(Q)
26 Benzoic acid	122	8.458	8.360	(1.000)	999903	120.000	110.0097(QM)
27 1,2,4-Trichlorobenzene	180	8.386	8.371	(0.992)	2111796	120.000	121.6367(Q)
* 28 Naphthalene-d8	136	8.458	8.442	(1.000)	1780349	40.0000	
29 Naphthalene	128	8.488	8.473	(1.004)	4675140	120.000	108.2270
30 4-Chloroaniline	127	8.570	8.544	(1.013)	2353235	120.000	135.3703(Q)
31 Hexachlorobutadiene	225	8.621	8.606	(1.019)	1334859	120.000	117.7822(Q)
32 4-Chloro-3-methylphenol	107	9.153	9.127	(1.082)	1635534	120.000	126.5056(Q)
33 2-Methylnaphthalene	142	9.316	9.301	(1.102)	3582687	120.000	123.7739(Q)
34 Hexachlorocyclopentadiene	237	9.490	9.485	(0.897)	985897	120.000	120.2133(Q)
35 2,4,6-Trichlorophenol	196	9.684	9.659	(0.915)	1585011	120.000	123.4060(Q)
36 2,4,5-Trichlorophenol	196	9.736	9.710	(0.920)	1437469	120.000	111.1794(QH)
$ 37 2-Fluorobiphenyl	172	9.766	9.740	(0.923)	3836193	120.000	105.5960(Q)
38 2-Chloronaphthalene	162	9.920	9.894	(0.937)	3314163	120.000	111.1690(Q)
39 2-Nitroaniline	65	10.083	10.047	(0.953)	1032825	120.000	123.5024(Q)
40 Dimethylphthalate	163	10.277	10.252	(0.971)	5459170	120.000	122.9435
41 2,6-Dinitrotoluene	165	10.390	10.354	(0.982)	1247164	120.000	121.1520(QH)
42 Acenaphthylene	152	10.421	10.405	(0.985)	5385951	120.000	110.7594
43 3-Nitroaniline	138	10.605	10.569	(1.002)	1147790	120.000	135.4125(Q)
* 44 Acenaphthene-d10	164	10.584	10.569	(1.000)	1230523	40.0000	(Q)
45 Acenaphthene	154	10.645	10.620	(1.006)	3135891	120.000	111.0550(Q)
46 2,4-Dinitrophenol	184	10.708	10.691	(1.015)	919226	120.000	121.2404(Q)
47 4-Nitrophenol	109	10.850	10.793	(1.025)	[illegible]	120.000	131.5988(QH)
48 Dibenzofuran	168	10.850	10.824	(1.025)	[illegible]	120.000	109.4917(Q)
49 2,4-Dinitrotoluene	165	[illegible]	[illegible]	(1.035)	[illegible]	120.000	126.1732(Q)
50 Diethylphthalate	149	11.173	[illegible]	(1.056)	[illegible]	120.000	110.4024
51 4-Chlorophenyl-phenylether	204	11.259	11.233	(1.064)	[illegible]	120.000	107.8453(Q)
52 Fluorene	166	11.279	11.253	(1.066)	[illegible]	120.000	113.1292(Q)
53 4-Nitroaniline	138	11.422	11.366	(1.079)	958614	120.000	118.1410(QH)
54 4,6-Dinitro-2-methylphenol	198	11.433	11.376	(0.921)	1088022	120.000	133.8920(Q)
55 N-Nitrosodiphenylamine	169	11.443	11.407	(0.922)	2744147	120.000	116.8210(Q)
56 Azobenzene	77	11.463	11.438	(0.923)	3894656	120.000	121.0617(Q)
$ 57 2,4,6-Tribromophenol	330	11.586	11.550	(1.095)	1042539	120.000	122.5331(Q)
58 4-Bromophenyl-phenylether	248	11.852	11.826	(0.955)	1501348	120.000	120.7073(Q)
59 Hexachlorobenzene	284	11.964	11.938	(0.964)	1720485	120.000	114.5166(Q)
60 Pentachlorophenol	266	12.199	12.174	(0.983)	1249095	120.000	130.8951(Q)
* 61 Phenanthrene-d10	188	12.414	12.388	(1.000)	2126994	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Report Date: 30-Nov-2004 10:49

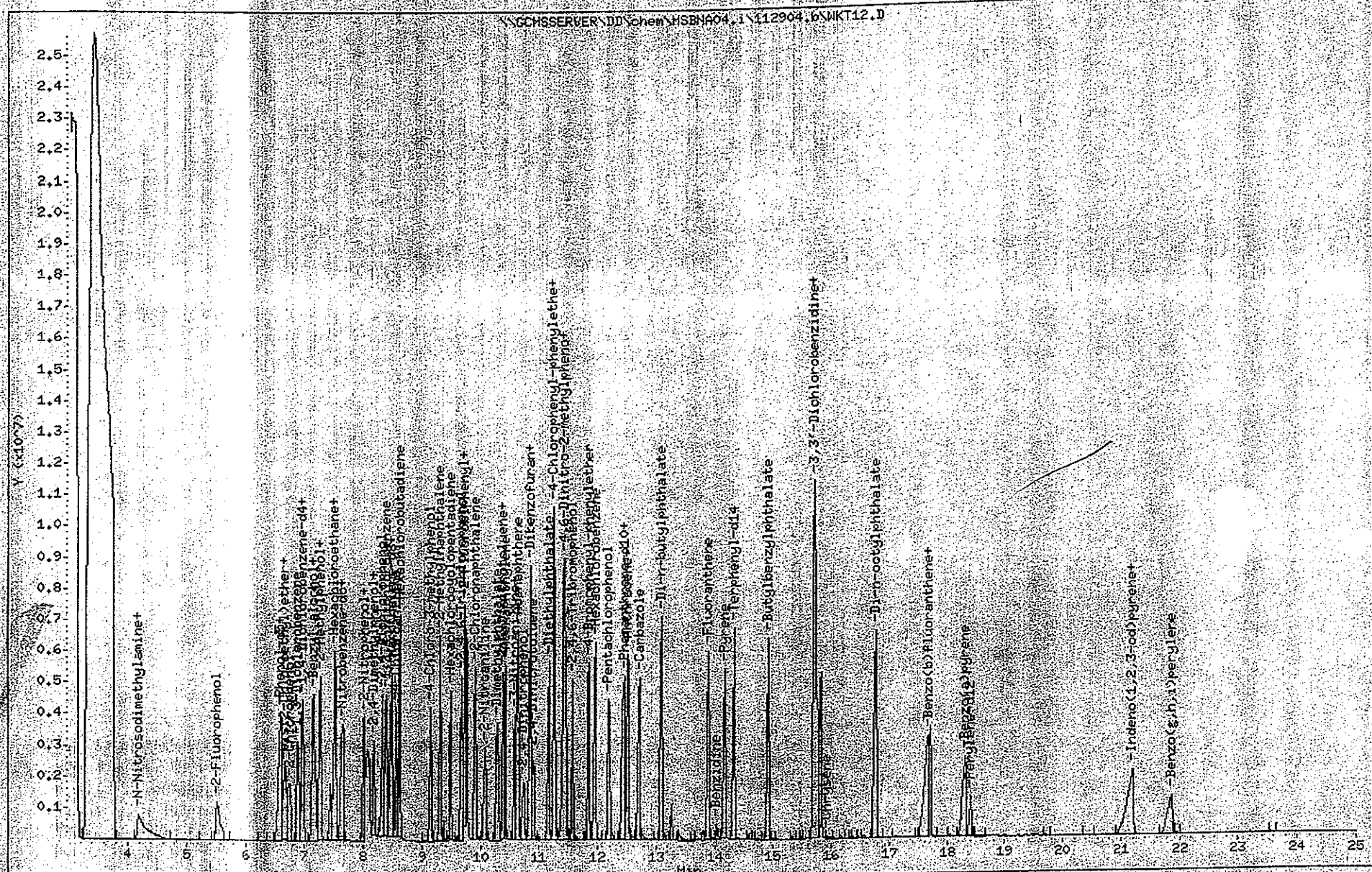
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.455	12.429	(1.003)	5807454	120.000	116.9846
63 Anthracene	178	12.527	12.491	(1.009)	5538403	120.000	112.0745(H)
64 Carbazole	167	12.711	12.685	(1.024)	4991223	120.000	137.1974
65 Di-n-butylphthalate	149	13.089	13.073	(1.054)	8142548	120.000	105.2977
66 Fluoranthene	202	13.897	13.871	(1.119)	6622409	120.000	110.8891
67 Benzidine	184	14.040	14.014	(0.890)	270534	120.000	100.3583
68 Pyrene	202	14.183	14.157	(0.899)	6634562	120.000	125.7278
$ 69 Terphenyl-d14	244	14.336	14.321	(0.909)	5208572	120.000	126.8367
70 Butylbenzylphthalate	149	14.929	14.903	(0.946)	3977475	120.000	122.6265(Q)
71 3,3'-Dichlorobenzidine	252	15.737	15.690	(0.997)	1953033	120.000	135.9910(Q)
72 Bis(2-Ethylhexyl)phthalate	149	15.706	15.690	(0.995)	4980754	120.000	114.0711(Q)
73 Benzo(a)anthracene	228	15.757	15.711	(0.999)	6459500	120.000	125.1413(M)
* 74 Chrysene-d12	240	15.778	15.742	(1.000)	1656657	40.0000	
75 Chrysene	228	15.829	15.793	(1.003)	5644435	120.000	123.0174(H)
76 Di-n-octylphthalate	149	16.769	16.743	(0.911)	9090066	120.000	137.6802
77 Benzo(b)fluoranthene	252	17.669	17.612	(0.959)	7036098	120.000	138.3863
78 Benzo(k)fluoranthene	252	17.710	17.674	(0.962)	3730988	120.000	109.0177(AMH)
79 Benzo(a)pyrene	252	18.313	18.277	(0.994)	4247329	120.000	130.4935
* 80 Perylene-d12	264	18.415	18.389	(1.000)	1100332	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.176	21.129	(1.150)	3656310	120.000	106.6813
82 Dibenz(a,h)anthracene	278	21.206	21.170	(1.152)	3037494	120.000	110.5969
83 Benzo(g,h,i)perylene	276	21.871	21.835	(1.188)	2640019	120.000	96.7215

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Date : 29-NOV-2004 16:02
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1861
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Report Date: 30-Nov-2004 10:50

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 16:37 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1862
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:50 target Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.202	4.179	(0.604)	1079324	160.000	176.2214
	2 Pyridine	79	4.202	4.199	(0.604)	1769530	160.000	180.2823
$	3 2-Fluorophenol	112	5.531	5.528	(0.796)	2158127	160.000	177.3327
$	4 Phenol-d5	99	6.615	6.551	(0.951)	2345401	160.000	163.0002
	5 Phenol	94	6.635	6.571	(0.954)	2423222	160.000	157.7295
	6 Aniline	66	6.635	6.581	(0.954)	958069	160.000	114.4628(M)
	7 bis(2-Chloroethyl)ether	63	6.707	6.653	(0.965)	1367592	160.000	187.0315(M)
	8 2-Chlorophenol	128	6.768	6.725	(0.974)	1668719	160.000	177.5670
	9 1,3-Dichlorobenzene	146	6.891	6.878	(0.991)	2811689	160.000	171.4512
*	10 1,4-Dichlorobenzene-d4	152	6.952	6.939	(1.000)	473810	40.0000	
	11 1,4-Dichlorobenzene	146	6.983	6.960	(1.004)	2545068	160.000	154.1885
	12 Benzyl alcohol	108	7.228	7.133	(1.040)	1761973	160.000	195.1712(M)
	13 1,2-Dichlorobenzene	146	7.157	7.133	(1.029)	2402029	160.000	153.9779
	14 2-Methylphenol	107	7.279	7.236	(1.047)	1288594	160.000	137.9866(H)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Report Date: 30-Nov-2004 10:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
15 bis(2-Chloroisopropyl) ether	45	7.279	7.256	(1.047)	2986203	160.000	130.3028
16 4-Methylphenol	107	7.463	7.450	(1.074)	2466649	160.000	163.2505(M)
17 N-Nitroso-di-n-propylamine	70	7.545	7.471	(1.085)	1135706	160.000	155.9662(H)
18 Hexachloroethane	117	7.535	7.522	(1.084)	1025763	160.000	147.7931
$ 19 Nitrobenzene-d5	82	7.658	7.614	(0.905)	2259271	160.000	166.5822
20 Nitrobenzene	77	7.678	7.634	(0.907)	1959412	160.000	157.8272
21 Isophorone	82	8.087	7.982	(0.955)	4203339	160.000	158.6980(M)
22 2-Nitrophenol	139	8.026	7.992	(0.948)	1785112	160.000	173.4753
23 2,4-Dimethylphenol	122	8.138	8.064	(0.961)	1867869	160.000	177.0853(M)
24 bis(2-Chloroethoxy)methane	93	8.210	8.156	(0.970)	2308626	160.000	143.3664(H)
25 2,4-Dichlorophenol	162	8.353	8.299	(0.987)	2160849	160.000	154.5991
26 Benzoic acid	122	8.587	8.360	(1.008)	1399205	160.000	159.3074(M)
27 1,2,4-Trichlorobenzene	180	8.394	8.371	(0.992)	2681019	160.000	160.2378
* 28 Naphthalene-d8	136	8.465	8.442	(1.000)	1715408	40.0000	
29 Naphthalene	128	8.506	8.473	(1.005)	5934161	160.000	144.3195
30 4-Chloroaniline	127	8.588	8.544	(1.014)	2953259	160.000	174.0987(MH)
31 Hexachlorobutadiene	225	8.629	8.606	(1.019)	1701523	160.000	156.3294
32 4-Chloro-3-methylphenol	107	9.171	9.127	(1.083)	2054855	160.000	164.3200
33 2-Methylnaphthalene	142	9.324	9.301	(1.101)	4879256	160.000	154.8440
34 Hexachlorocyclopentadiene	237	9.498	9.485	(0.897)	1374460	160.000	168.9826
35 2,4,6-Trichlorophenol	196	9.702	9.659	(0.916)	2014036	160.000	159.6531
36 2,4,5-Trichlorophenol	196	9.753	9.710	(0.921)	1756333	160.000	140.6511(H)
$ 37 2-Fluorobiphenyl	172	9.774	9.740	(0.923)	5266100	160.000	148.9897
38 2-Chloronaphthalene	162	9.927	9.894	(0.937)	4324566	160.000	149.0856
39 2-Nitroaniline	65	10.101	10.047	(0.954)	1339682	160.000	162.6628
40 Dimethylphthalate	163	10.295	10.252	(0.972)	7058014	160.000	161.5581
41 2,6-Dinitrotoluene	165	10.418	10.354	(0.984)	1535711	160.000	152.8149(H)
42 Acenaphthylene	152	10.438	10.405	(0.986)	6348756	160.000	135.4360
43 3-Nitroaniline	138	10.612	10.569	(1.002)	1357359	160.000	162.6108(M)
* 44 Acenaphthene-d10	164	10.592	10.569	(1.000)	1208977	40.0000	
45 Acenaphthene	154	10.653	10.620	(1.006)	4106225	160.000	145.9866
46 2,4-Dinitrophenol	184	10.776	10.691	(1.017)	[illegible]	160.000	158.8675
47 4-Nitrophenol	109	10.888	10.793	(1.028)	[illegible]	160.000	176.3919(H)
48 Dibenzofuran	168	10.868	10.828	(1.026)	[illegible]	160.000	144.4967(H)
49 2,4-Dinitrotoluene	165	10.939	10.855	(1.033)	[illegible]	160.000	167.7500
50 Diethylphthalate	149	11.205	11.131	(1.058)	[illegible]	160.000	142.9068
51 4-Chlorophenyl-phenylether	204	11.277	11.233	(1.065)	2719111	160.000	139.6944
52 Fluorene	166	11.297	11.253	(1.067)	5093721	160.000	144.1802(M)
53 4-Nitroaniline	138	11.451	11.366	(1.081)	1276143	160.000	160.4256(H)
54 4,6-Dinitro-2-methylphenol	198	11.440	11.376	(0.920)	1302009	160.000	168.1665
55 N-Nitrosodiphenylamine	169	11.461	11.407	(0.922)	3343056	160.000	151.6786
56 Azobenzene	77	11.481	11.438	(0.924)	4906293	160.000	161.1717
$ 57 2,4,6-Tribromophenol	330	11.594	11.550	(1.095)	1330355	160.000	159.2538
58 4-Bromophenyl-phenylether	248	11.859	11.826	(0.954)	1951917	160.000	165.2446
59 Hexachlorobenzene	284	11.982	11.938	(0.964)	2198271	160.000	155.4251
60 Pentachlorophenol	266	12.217	12.174	(0.983)	1615773	160.000	176.1191
* 61 Phenanthrene-d10	188	12.432	12.388	(1.000)	2010546	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Report Date: 30-Nov-2004 10:50

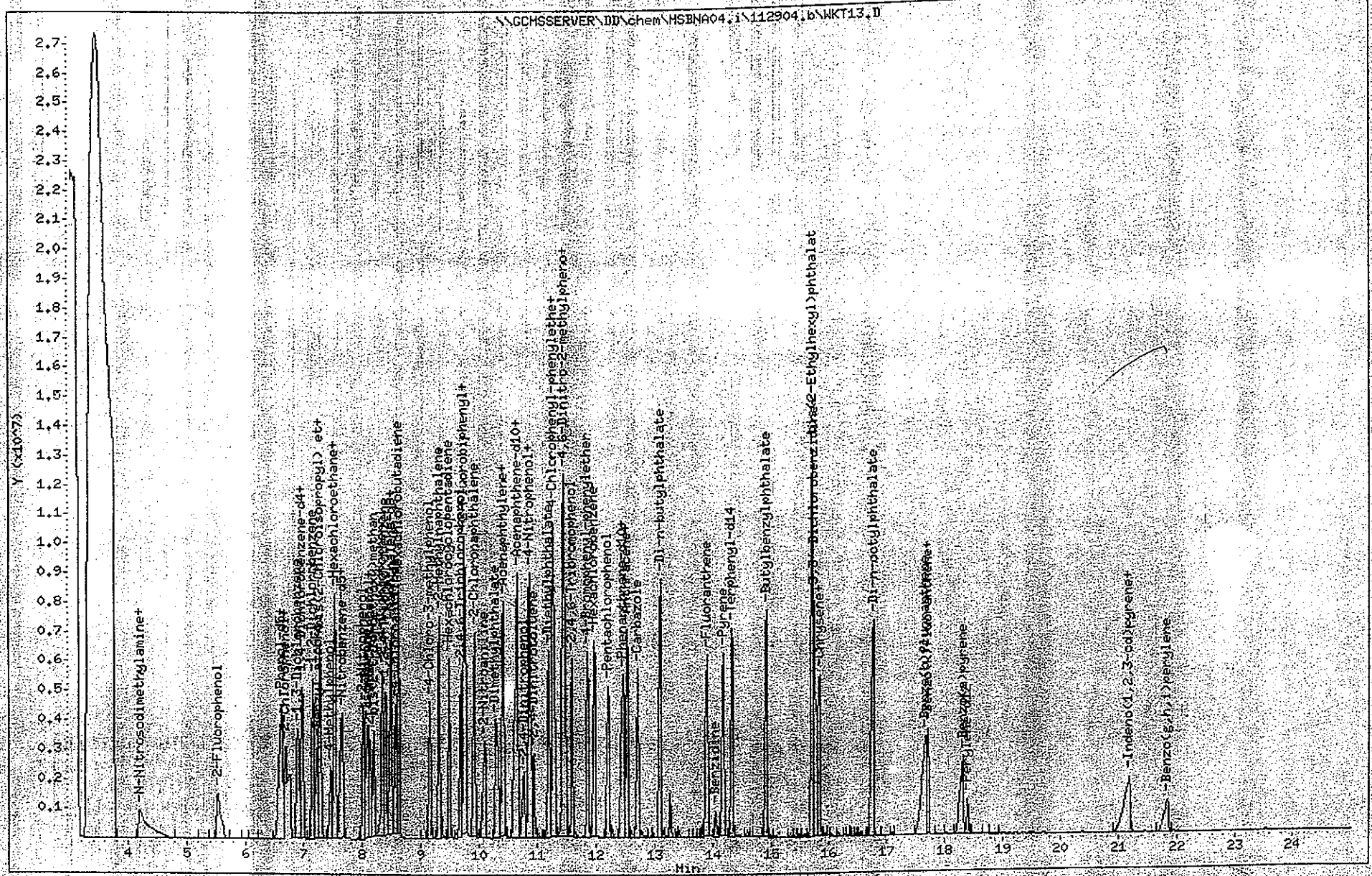
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.473	12.429	(1.003)	7264307	160.000	155.3668
63 Anthracene	178	12.534	12.491	(1.008)	6964404	160.000	150.2313(H)
64 Carbazole	167	12.728	12.685	(1.024)	6179147	160.000	176.9662
65 Di-n-butylphthalate	149	13.107	13.073	(1.054)	9709682	160.000	135.7161
66 Fluoranthene	202	13.914	13.871	(1.119)	8174115	160.000	146.3439
67 Benzidine	184	14.047	14.014	(0.889)	426328	160.000	180.5983
68 Pyrene	202	14.190	14.157	(0.898)	8264288	160.000	179.4251
$ 69 Terphenyl-d14	244	14.344	14.321	(0.908)	6376154	160.000	177.7633
70 Butylbenzylphthalate	149	14.937	14.903	(0.946)	4795981	160.000	170.4113
71 3,3'-Dichlorobenzidine	252	15.755	15.690	(0.997)	2201666	160.000	175.8220
72 bis(2-Ethylhexyl)phthalate	149	15.724	15.690	(0.995)	5623053	160.000	151.0158
73 Benzo(a)anthracene	228	15.765	15.711	(0.998)	7808715	160.000	174.0549(M)
* 74 Chrysene-d12	240	15.795	15.742	(1.000)	1424074	40.0000	
75 Chrysene	228	15.847	15.793	(1.003)	6324997	160.000	160.3233(MH)
76 Di-n-octylphthalate	149	16.777	16.743	(0.911)	10448865	160.000	191.0833
77 Benzo(b)fluoranthene	252	17.677	17.612	(0.960)	7871631	160.000	193.1653
78 Benzo(k)fluoranthene	252	17.728	17.674	(0.963)	3752306	160.000	138.4505(AMH)
79 Benzo(a)pyrene	252	18.931	18.277	(0.996)	4473457	160.000	169.4255
* 80 Perylene-d12	264	18.413	18.389	(1.000)	886036	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.163	21.129	(1.149)	3162520	160.000	118.3223
82 Dibenz(a,h)anthracene	278	21.193	21.170	(1.151)	2715085	160.000	126.0260
83 Benzo(g,h,i)perylene	276	21.648	21.835	(1.187)	2095636	160.000	95.3464

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Date : 29-NOV-2004 16:37
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1862
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534481550014
Calnum : 534481550001
Standards: 04WS2061

Run Name : 50ug/mL
Filename : wkt14
Caldate : 29-NOV-2004

Injected : 29-NOV-2004 17:13
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aniline	50.00000	54.69520	ng	9	30	
Benzyl alcohol	50.00000	50.70600	ng	1	30	
4-Chloroaniline	50.00000	54.66690	ng	9	30	
2-Methylnaphthalene	50.00000	55.44300	ng	11	30	
2-Nitroaniline	50.00000	54.00040	ng	8	30	
3-Nitroaniline	50.00000	61.59020	ng	23	30	!v+
Dibenzofuran	50.00000	57.26610	ng	15	30	
4-Nitroaniline	50.00000	57.77840	ng	16	30	

ISTD (CCV=wkt04)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	341343	366362	7.33	6.93	6.93	0.00
Naphthalene-d8	1193108	1302661	9.18	8.43	8.43	0.00
Acenaphthene-d10	786378	871258	10.79	10.56	10.56	0.00
Phenanthrene-d10	1427871	1571783	10.08	12.38	12.38	0.00
Chrysene-d12	1306789	1442009	10.35	15.72	15.71	-0.01
Perylene-d12	1138650	1165378	2.35	18.37	18.36	-0.01

11/30/04

!=warning +=high bias v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534481550015
Calnum : 534481550001
Standards: 04WS2062

Run Name : 50ug/mL
Filename : wkt15
Caldate : 29-NOV-2004

Injected : 29-NOV-2004 17:48
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	50.00000	52.38990	ng	5	30	m
Pyridine	50.00000	56.61800	ng	13	30	m
Phenol	50.00000	49.77210	ng	0	20	
bis(2-Chloroethyl)ether	50.00000	50.74200	ng	1	30	
2-Chlorophenol	50.00000	52.43500	ng	5	30	
1,3-Dichlorobenzene	50.00000	51.46240	ng	3	30	
1,4-Dichlorobenzene	50.00000	51.92870	ng	4	20	
1,2-Dichlorobenzene	50.00000	52.67680	ng	5	30	
2-Methylphenol	50.00000	56.16390	ng	12	30	
bis(2-Chloroisopropyl) ether	50.00000	55.17140	ng	10	30	
4-Methylphenol	50.00000	53.58120	ng	7	30	
N-Nitroso-di-n-propylamine	50.00000	57.60220	ng	15	30	
Hexachloroethane	50.00000	56.29290	ng	13	30	
Nitrobenzene	50.00000	53.02430	ng	6	30	
Isophorone	50.00000	57.54280	ng	15	30	
2-Nitrophenol	50.00000	51.58730	ng	3	20	
2,4-Dimethylphenol	50.00000	55.94110	ng	12	30	
bis(2-Chloroethoxy)methane	50.00000	52.45930	ng	5	30	
Benzoic acid	50.00000	58.38250	ng	17	40	
2,4-Dichlorophenol	50.00000	55.22840	ng	10	20	
1,2,4-Trichlorobenzene	50.00000	52.77720	ng	6	30	
Naphthalene	50.00000	56.14570	ng	12	30	
Hexachlorobutadiene	50.00000	53.67360	ng	7	20	
4-Chloro-3-methylphenol	50.00000	55.01280	ng	10	20	
Hexachlorocyclopentadiene	50.00000	56.47260	ng	13	40	
2,4,6-Trichlorophenol	50.00000	58.08330	ng	16	20	
2,4,5-Trichlorophenol	50.00000	56.22090	ng	12	30	
2-Chloronaphthalene	50.00000	57.83170	ng	16	30	
Dimethylphthalate	50.00000	54.67580	ng	9	30	
2,6-Dinitrotoluene	50.00000	54.10720	ng	8	30	
Acenaphthylene	50.00000	58.30070	ng	17	30	
Acenaphthene	50.00000	56.50180	ng	13	20	
2,4-Dinitrophenol	50.00000	49.77620	ng	0	40	
4-Nitrophenol	50.00000	49.52030	ng	-1	40	
2,4-Dinitrotoluene	50.00000	55.08120	ng	10	30	
Diethylphthalate	50.00000	57.58100	ng	15	30	
Fluorene	50.00000	56.58560	ng	13	30	
4-Chlorophenyl-phenylether	50.00000	58.71220	ng	17	40	
4,6-Dinitro-2-methylphenol	50.00000	58.72840	ng	17	30	
N-Nitrosodiphenylamine	50.00000	42.94800	ng	-14	20	
Azobenzene	50.00000	53.17480	ng	6	30	
4-Bromophenyl-phenylether	50.00000	56.21490	ng	12	30	
Hexachlorobenzene	50.00000	56.65150	ng	13	30	
Pentachlorophenol	50.00000	51.34250	ng	3	20	
Phenanthrene	50.00000	58.29550	ng	17	30	
Anthracene	50.00000	58.90140	ng	18	30	
Carbazole	50.00000	41.92130	ng	-16	30	

+=high bias m=manual integration v=ICV

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : 50ug/mL
Seqnum : 534481550015 Filename : wkt15 Injected : 29-NOV-2004 17:48
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS2062

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Di-n-butylphthalate	50.00000	58.31040	ng	17	30	
Fluoranthene	50.00000	56.68090	ng	13	20	
Benzidine	50.00000	146.1556	ng	192	40	v+ ***
Pyrene	50.00000	53.24730	ng	6	30	
Butylbenzylphthalate	50.00000	54.45980	ng	9	30	
3,3'-Dichlorobenzidine	50.00000	54.71540	ng	9	40	
Benzo(a)anthracene	50.00000	52.50990	ng	5	30	
bis(2-Ethylhexyl)phthalate	50.00000	58.62170	ng	17	30	
Chrysene	50.00000	54.87170	ng	10	30	
Di-n-octylphthalate	50.00000	51.91360	ng	4	20	
Benzo(b)fluoranthene	50.00000	45.95830	ng	-8	30	
Benzo(k)fluoranthene	50.00000	58.94260	ng	18	30	
Benzo(a)pyrene	50.00000	56.79210	ng	14	20	
Indeno(1,2,3-cd)pyrene	50.00000	53.86060	ng	8	30	
Dibenz(a,h)anthracene	50.00000	57.34640	ng	15	30	
Benzo(g,h,i)perylene	50.00000	49.93590	ng	0	30	
2-Fluorophenol	50.00000	52.12560	ng	4	30	
Phenol-d5	50.00000	52.01270	ng	4	30	
Nitrobenzene-d5	50.00000	53.45110	ng	7	30	
2-Fluorobiphenyl	50.00000	58.45750	ng	17	30	
2,4,6-Tribromophenol	50.00000	50.16240	ng	0	30	
Terphenyl-d14	50.00000	51.00920	ng	2	30	

ISTD (CCV=wkt04)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	341343	289894	-15.07	6.93	6.94	0.01
Naphthalene-d8	1193108	1031042	-13.58	8.43	8.43	0.00
Acenaphthene-d10	786378	690773	-12.16	10.56	10.57	0.01
Phenanthrene-d10	1427871	1208741	-15.35	12.38	12.38	0.00
Chrysene-d12	1306789	1093061	-16.36	15.72	15.72	0.00
Perylene-d12	1138650	879010	-22.80	18.37	18.37	0.00

+=high bias m=manual integration v=ICV
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA02
Seqnum : 514483154002
Calnum : 514444429002
Standards: 04WS1859

Run Name :
Filename : uku02
Caldate : 03-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 12:56
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.4068	0.5004	50.00000	61.51220	ng	23	30	0.0500	!c+
Pyridine	1.2965	1.3631	50.00000	52.56640	ng	5	30	0.0500	
Phenol	1.7496	1.6715	50.00000	47.76810	ng	-4	20	0.0500	
Aniline	0.6291	0.5993	50.00000	47.63520	ng	-5	30	0.0500	
bis(2-Chloroethyl)ether	0.9912	0.9716	50.00000	49.01190	ng	-2	30	0.0500	
2-Chlorophenol	1.5115	1.5573	50.00000	51.51600	ng	3	30	0.0500	
1,3-Dichlorobenzene	1.4752	1.5262	50.00000	51.73040	ng	3	30	0.0500	
1,4-Dichlorobenzene	1.4883	1.5499	50.00000	52.06900	ng	4	20	0.0500	
Benzyl alcohol	0.9900	0.9547	50.00000	48.21770	ng	-4	30	0.0500	
1,2-Dichlorobenzene	1.4099	1.4681	50.00000	52.06420	ng	4	30	0.0500	
2-Methylphenol	1.0071	0.9551	50.00000	47.42060	ng	-5	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9510	2.2342	50.00000	57.25860	ng	15	30	0.0500	
4-Methylphenol	1.5812	1.5382	50.00000	48.63880	ng	-3	30	0.0500	
N-Nitroso-di-n-propylamine	0.8765	0.9571	50.00000	54.59240	ng	9	30	0.0500	
Hexachloroethane	0.6267	0.6094	50.00000	48.62540	ng	-3	30	0.0500	
Nitrobenzene	0.3083	0.3378	50.00000	54.78200	ng	10	30	0.0500	
Isophorone	0.6934	0.7543	50.00000	54.39100	ng	9	30	0.0500	
2-Nitrophenol	0.2250	0.2559	50.00000	56.87220	ng	14	20	0.0500	
2,4-Dimethylphenol	0.2967	0.2914	50.00000	49.11630	ng	-2	30	0.0500	
bis(2-Chloroethoxy)methane	0.4392	0.4600	50.00000	52.37050	ng	5	30	0.0500	
Benzoic acid	0.1494	0.1200	50.00000	48.51450	ng	-3	40	0.0500	
2,4-Dichlorophenol	0.2632	0.2844	50.00000	54.02070	ng	8	20	0.0500	
1,2,4-Trichlorobenzene	0.2698	0.2818	50.00000	52.22510	ng	4	30	0.0500	
Naphthalene	0.9467	0.9812	50.00000	51.82430	ng	4	30	0.0500	
4-Chloroaniline	0.4436	0.4547	50.00000	51.24430	ng	2	30	0.0500	
Hexachlorobutadiene	0.1239	0.1399	50.00000	56.45940	ng	13	20	0.0500	
4-Chloro-3-methylphenol	0.2620	0.2669	50.00000	50.93290	ng	2	20	0.0500	
2-Methylnaphthalene	0.6280	0.6974	50.00000	55.52070	ng	11	30	0.0500	
Hexachlorocyclopentadiene	0.1452	0.1626	50.00000	48.42600	ng	-3	40	0.0500	
2,4,6-Trichlorophenol	0.3414	0.3826	50.00000	56.02910	ng	12	20	0.0500	
2,4,5-Trichlorophenol	0.3588	0.3891	50.00000	54.22070	ng	8	30	0.0500	
2-Chloronaphthalene	1.0377	1.0921	50.00000	52.62090	ng	5	30	0.0500	
2-Nitroaniline	0.3096	0.3434	50.00000	55.44830	ng	11	30	0.0500	
Dimethylphthalate	1.2851	1.4007	50.00000	54.49600	ng	9	30	0.0500	
2,6-Dinitrotoluene	0.3410	0.3712	50.00000	54.42130	ng	9	30	0.0500	
Acenaphthylene	1.7026	1.8558	50.00000	54.49950	ng	9	30	0.0500	
3-Nitroaniline	0.3920	0.3958	50.00000	50.48240	ng	1	30	0.0500	
Acenaphthene	1.0424	1.1453	50.00000	54.93350	ng	10	20	0.0500	
2,4-Dinitrophenol	0.1221	0.0887	50.00000	46.34300	ng	-7	40	0.0500	
4-Nitrophenol	0.0641	0.0841	50.00000	57.15110	ng	14	40	0.0500	
Dibenzofuran	1.4143	1.4912	50.00000	52.71760	ng	5	30	0.0500	
2,4-Dinitrotoluene	0.4005	0.4589	50.00000	57.29220	ng	15	30	0.0500	
Diethylphthalate	1.2521	1.4202	50.00000	56.71390	ng	13	30	0.0500	
Fluorene	1.1384	1.2097	50.00000	53.13260	ng	6	30	0.0500	
4-Chlorophenyl-phenylether	0.5406	0.6010	50.00000	55.58490	ng	11	40	0.0500	
4-Nitroaniline	0.3262	0.3296	50.00000	47.70900	ng	-5	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure rsd=ICAL %RSD failure

12/01/04 12/1/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA02
Seqnum : 514483154002
Calnum : 514444429002
Standards: 04WS1859

Run Name :
Filename : uku02
Caldate : 03-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 12:56
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1120	0.1265	50.00000	48.16680	ng	-4	30	0.0500	
N-Nitrosodiphenylamine	0.5488	0.5795	50.00000	52.79100	ng	6	20	0.0500	
Azobenzene	0.8913	0.9528	50.00000	53.45520	ng	7	30	0.0500	
4-Bromophenyl-phenylether	0.1965	0.2252	50.00000	57.30490	ng	15	30	0.0500	
Hexachlorobenzene	0.2164	0.2321	50.00000	53.62850	ng	7	30	0.0500	
Pentachlorophenol	0.1173	0.1065	50.00000	47.32550	ng	-5	20	0.0500	
Phenanthrene	1.0196	1.0719	50.00000	52.56650	ng	5	30	0.0500	
Anthracene	1.0221	1.0917	50.00000	53.40560	ng	7	30	0.0500	
Carbazole	0.8285	0.7934	50.00000	47.88260	ng	-4	30	0.0500	
Di-n-butylphthalate	1.5460	1.7537	50.00000	56.71570	ng	13	30	0.0500	
Fluoranthene	0.9745	1.1280	50.00000	57.87570	ng	16	20	0.0500	
Benzidine	0.0761	0.0153	50.00000	10.04960	ng	-80	40	0.0500	c- crf
Pyrene	1.8675	1.6163	50.00000	43.27430	ng	-13	30	0.0500	
Butylbenzylphthalate	1.1459	1.1294	50.00000	49.27660	ng	-1	30	0.0500	
3,3'-Dichlorobenzidine	0.3417	0.2984	50.00000	43.65680	ng	-13	40	0.0500	
Benzo(a)anthracene	1.2674	1.2945	50.00000	51.06990	ng	2	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.4987	1.5528	50.00000	51.80590	ng	4	30	0.0500	
Chrysene	1.1687	1.1636	50.00000	49.78150	ng	0	30	0.0500	
Di-n-octylphthalate	4.0110	3.7021	50.00000	46.14950	ng	-8	20	0.0500	
Benzo(b)fluoranthene	1.5504	1.5383	50.00000	49.61010	ng	-1	30	0.0500	
Benzo(k)fluoranthene	1.5505	1.4755	50.00000	47.58210	ng	-5	30	0.0500	
Benzo(a)pyrene	1.2093	1.2454	50.00000	51.49330	ng	3	20	0.0500	
Indeno(1,2,3-cd)pyrene	0.8285	1.0531	50.00000	63.55180	ng	27	30	0.0500	!c+
Dibenz(a,h)anthracene	0.6640	0.8723	50.00000	65.68380	ng	31	30	0.0500	c+ ***
Benzo(g,h,i)perylene	0.6536	0.8374	50.00000	64.05820	ng	28	30	0.0500	!c+
2-Fluorophenol	1.4571	1.3618	50.00000	46.73040	ng	-7	30	0.0500	
Phenol-d5	1.7068	1.7031	50.00000	49.88930	ng	0	30	0.0500	
Nitrobenzene-d5	0.3321	0.3607	50.00000	54.31490	ng	9	30	0.0500	
2-Fluorobiphenyl	1.1093	1.1742	50.00000	52.92520	ng	6	30	0.0500	
2,4,6-Tribromophenol	0.1530	0.1888	50.00000	61.70900	ng	23	30	0.0500	!c+
Terphenyl-d14	1.1716	1.1144	50.00000	47.55960	ng	-5	30	0.0500	

12/01/04

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : IDF : 1.0
Seqnum : 534484489012 Filename : wl112 Injected : 01-DEC-2004 17:46
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS1859

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5171	0.5145	50.00000	49.75040	ng	0	30	0.0500	
Pyridine	0.8286	0.8613	50.00000	51.97430	ng	4	30	0.0500	
Phenol	1.2970	1.2897	50.00000	49.71800	ng	-1	20	0.0500	
Aniline	0.5594	1.0170	50.00000	90.89860	ng	82	30	0.0500	c+ rsd
bis(2-Chloroethyl)ether	0.8432	0.8546	50.00000	50.67480	ng	1	30	0.0500	
2-Chlorophenol	1.2650	1.3374	50.00000	52.86130	ng	6	30	0.0500	
1,3-Dichlorobenzene	1.4140	1.4716	50.00000	52.03780	ng	4	30	0.0500	
1,4-Dichlorobenzene	1.3935	1.4502	50.00000	52.03570	ng	4	20	0.0500	
Benzyl alcohol	0.7621	0.7582	50.00000	49.73980	ng	-1	30	0.0500	
1,2-Dichlorobenzene	1.3170	1.3321	50.00000	50.57410	ng	1	30	0.0500	
2-Methylphenol	0.7884	0.7940	50.00000	50.35430	ng	1	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9347	1.9290	50.00000	49.85310	ng	0	30	0.0500	
4-Methylphenol	1.2756	1.2104	50.00000	47.44430	ng	-5	30	0.0500	
N-Nitroso-di-n-propylamine	0.6147	0.5890	50.00000	47.90730	ng	-4	30	0.0500	
Hexachloroethane	0.5859	0.6117	50.00000	52.20100	ng	4	30	0.0500	
Nitrobenzene	0.2895	0.3101	50.00000	53.55320	ng	7	30	0.0500	
Isophorone	0.6176	0.6724	50.00000	54.43740	ng	9	30	0.0500	
2-Nitrophenol	0.2399	0.2474	50.00000	51.55190	ng	3	20	0.0500	
2,4-Dimethylphenol	0.2460	0.2590	50.00000	52.65040	ng	5	30	0.0500	
bis(2-Chloroethoxy)methane	0.3755	0.3943	50.00000	52.49990	ng	5	30	0.0500	
Benzoic acid	0.1204	0.2094	50.00000	66.08630	ng	32	40	0.0500	!c+ m
2,4-Dichlorophenol	0.3259	0.3519	50.00000	53.97920	ng	8	20	0.0500	
1,2,4-Trichlorobenzene	0.3901	0.4163	50.00000	53.34670	ng	7	30	0.0500	
Naphthalene	0.9588	1.0026	50.00000	52.28430	ng	5	30	0.0500	
4-Chloroaniline	0.3955	0.4333	50.00000	54.76970	ng	10	30	0.0500	
Hexachlorobutadiene	0.2538	0.2743	50.00000	54.03830	ng	8	20	0.0500	
4-Chloro-3-methylphenol	0.2916	0.3156	50.00000	54.12270	ng	8	20	0.0500	
2-Methylnaphthalene	0.7047	0.7471	50.00000	53.00920	ng	6	30	0.0500	
Hexachlorocyclopentadiene	0.2691	0.1998	50.00000	37.12750	ng	-26	40	0.0500	
2,4,6-Trichlorophenol	0.4174	0.4734	50.00000	56.70840	ng	13	20	0.0500	
2,4,5-Trichlorophenol	0.4131	0.4850	50.00000	58.69500	ng	17	30	0.0500	
2-Chloronaphthalene	0.9597	1.0484	50.00000	54.62210	ng	9	30	0.0500	
2-Nitroaniline	0.2725	0.2938	50.00000	53.90460	ng	8	30	0.0500	
Dimethylphthalate	1.4454	1.5648	50.00000	54.12870	ng	8	30	0.0500	
2,6-Dinitrotoluene	0.3325	0.3815	50.00000	57.36570	ng	15	30	0.0500	
Acenaphthylene	1.5509	1.7247	50.00000	55.60120	ng	11	30	0.0500	
3-Nitroaniline	0.2762	0.3089	50.00000	55.92240	ng	12	30	0.0500	
Acenaphthene	0.9080	0.9687	50.00000	53.34430	ng	7	20	0.0500	
2,4-Dinitrophenol	0.2094	0.1337	50.00000	38.02140	ng	-24	40	0.0500	
4-Nitrophenol	0.1725	0.1842	50.00000	53.39810	ng	7	40	0.0500	
Dibenzofuran	1.4121	1.5125	50.00000	53.55630	ng	7	30	0.0500	
2,4-Dinitrotoluene	0.4372	0.4653	50.00000	53.20940	ng	6	30	0.0500	
Diethylphthalate	1.4158	1.5753	50.00000	55.63330	ng	11	30	0.0500	
Fluorene	1.1689	1.1980	50.00000	51.24380	ng	2	30	0.0500	
4-Chlorophenyl-phenylether	0.6440	0.6798	50.00000	52.77640	ng	6	40	0.0500	
4-Nitroaniline	0.2328	0.2639	50.00000	50.39510	ng	1	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

12/02/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534484489012
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wl112
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 01-DEC-2004 17:46
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1541	0.1252	50.00000	40.62770	ng	-19	30	0.0500	
N-Nitrosodiphenylamine	0.4385	0.4668	50.00000	53.22940	ng	6	20	0.0500	
Azobenzene	0.6056	0.6066	50.00000	50.08000	ng	0	30	0.0500	m
4-Bromophenyl-phenylether	0.2350	0.2498	50.00000	53.14020	ng	6	30	0.0500	
Hexachlorobenzene	0.2814	0.2975	50.00000	52.86520	ng	6	30	0.0500	
Pentachlorophenol	0.1825	0.1840	50.00000	50.40450	ng	1	20	0.0500	
Phenanthrene	0.9302	0.9559	50.00000	51.38330	ng	3	30	0.0500	
Anthracene	0.9223	0.9639	50.00000	52.25690	ng	5	30	0.0500	
Carbazole	0.6947	0.6857	50.00000	49.35280	ng	-1	30	0.0500	
Di-n-butylphthalate	1.4234	1.5300	50.00000	53.74430	ng	7	30	0.0500	
Fluoranthene	1.1113	1.1239	50.00000	50.56900	ng	1	20	0.0500	
Benzidine	0.0663	0.0089	50.00000	6.721800	ng	-87	40	0.0500	c- crf
Pyrene	1.2937	1.4343	50.00000	55.43220	ng	11	30	0.0500	
Butylbenzylphthalate	0.7905	0.8646	50.00000	54.68890	ng	9	30	0.0500	
3,3'-Dichlorobenzidine	0.3517	0.4177	50.00000	59.37880	ng	19	40	0.0500	
Benzo(a)anthracene	1.2601	1.2314	50.00000	48.85860	ng	-2	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0459	1.1046	50.00000	52.81000	ng	6	30	0.0500	
Chrysene	1.1081	1.1595	50.00000	52.31740	ng	5	30	0.0500	
Di-n-octylphthalate	2.4686	2.6110	50.00000	52.88310	ng	6	20	0.0500	
Benzo(b)fluoranthene	1.5347	1.6026	50.00000	44.39870	ng	-11	30	0.0500	
Benzo(k)fluoranthene	1.2235	1.3459	50.00000	54.99910	ng	10	30	0.0500	
Benzo(a)pyrene	1.1920	1.2057	50.00000	50.57470	ng	1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2066	1.2258	50.00000	50.79620	ng	2	30	0.0500	
Dibenz(a,h)anthracene	0.9726	0.9732	50.00000	50.02980	ng	0	30	0.0500	
Benzo(g,h,i)perylene	0.9922	0.9560	50.00000	48.17280	ng	-4	30	0.0500	
2-Fluorophenol	1.0274	1.0834	50.00000	52.72720	ng	5	30	0.0500	
Phenol-d5	1.2147	1.2706	50.00000	52.29980	ng	5	30	0.0500	
Nitrobenzene-d5	0.3163	0.3370	50.00000	53.28760	ng	7	30	0.0500	
2-Fluorobiphenyl	1.1694	1.3142	50.00000	56.18970	ng	12	30	0.0500	
2,4,6-Tribromophenol	0.2764	0.3088	50.00000	55.85650	ng	12	30	0.0500	
Terphenyl-d14	1.0075	1.1108	50.00000	55.12780	ng	10	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : IDF : 1.0
Seqnum : 534485889002 Filename : wl202 Injected : 02-DEC-2004 10:26
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS1860

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5171	0.5125	80.00000	79.28810	ng	-1	30	0.0500	
Pyridine	0.8286	0.8382	80.00000	80.92510	ng	1	30	0.0500	
Phenol	1.2970	1.2957	80.00000	79.92020	ng	0	20	0.0500	
Aniline	0.5594	1.0328	80.00000	147.6981	ng	85	30	0.0500	c+ rsd
bis(2-Chloroethyl)ether	0.8432	0.8443	80.00000	80.10940	ng	0	30	0.0500	
2-Chlorophenol	1.2650	1.3154	80.00000	83.18490	ng	4	30	0.0500	
1,3-Dichlorobenzene	1.4140	1.4183	80.00000	80.24330	ng	0	30	0.0500	
1,4-Dichlorobenzene	1.3935	1.4272	80.00000	81.93500	ng	2	20	0.0500	
Benzyl alcohol	0.7621	0.7351	80.00000	77.15890	ng	-4	30	0.0500	
1,2-Dichlorobenzene	1.3170	1.3008	80.00000	79.01540	ng	-1	30	0.0500	
2-Methylphenol	0.7884	0.7685	80.00000	77.98020	ng	-3	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9347	1.7523	80.00000	72.45450	ng	-9	30	0.0500	
4-Methylphenol	1.2756	1.1756	80.00000	73.72970	ng	-8	30	0.0500	
N-Nitroso-di-n-propylamine	0.6147	0.6174	80.00000	80.34290	ng	0	30	0.0500	m
Hexachloroethane	0.5859	0.6054	80.00000	82.65670	ng	3	30	0.0500	
Nitrobenzene	0.2895	0.2952	80.00000	81.57280	ng	2	30	0.0500	
Isophorone	0.6176	0.6598	80.00000	85.45900	ng	7	30	0.0500	m
2-Nitrophenol	0.2399	0.2451	80.00000	81.73290	ng	2	20	0.0500	
2,4-Dimethylphenol	0.2460	0.2499	80.00000	81.28190	ng	2	30	0.0500	
bis(2-Chloroethoxy)methane	0.3755	0.3753	80.00000	79.96230	ng	0	30	0.0500	
Benzoic acid	0.1204	0.2444	80.00000	108.5803	ng	36	40	0.0500	!c+
2,4-Dichlorophenol	0.3259	0.3408	80.00000	83.65300	ng	5	20	0.0500	
1,2,4-Trichlorobenzene	0.3901	0.4010	80.00000	82.23160	ng	3	30	0.0500	
Naphthalene	0.9588	0.9457	80.00000	78.90490	ng	-1	30	0.0500	
4-Chloroaniline	0.3955	0.3987	80.00000	80.63550	ng	1	30	0.0500	
Hexachlorobutadiene	0.2538	0.2643	80.00000	83.32020	ng	4	20	0.0500	
4-Chloro-3-methylphenol	0.2916	0.3069	80.00000	84.19680	ng	5	20	0.0500	
2-Methylnaphthalene	0.7047	0.7061	80.00000	80.16800	ng	0	30	0.0500	
Hexachlorocyclopentadiene	0.2691	0.2273	80.00000	67.57110	ng	-16	40	0.0500	
2,4,6-Trichlorophenol	0.4174	0.4683	80.00000	89.75540	ng	12	20	0.0500	
2,4,5-Trichlorophenol	0.4131	0.4765	80.00000	92.25940	ng	15	30	0.0500	
2-Chloronaphthalene	0.9597	1.0380	80.00000	86.52280	ng	8	30	0.0500	
2-Nitroaniline	0.2725	0.2968	80.00000	87.14880	ng	9	30	0.0500	
Dimethylphthalate	1.4454	1.5362	80.00000	85.02180	ng	6	30	0.0500	
2,6-Dinitrotoluene	0.3325	0.3745	80.00000	90.10260	ng	13	30	0.0500	
Acenaphthylene	1.5509	1.6424	80.00000	84.71580	ng	6	30	0.0500	
3-Nitroaniline	0.2762	0.3054	80.00000	88.46430	ng	11	30	0.0500	
Acenaphthene	0.9080	0.9235	80.00000	81.37000	ng	2	20	0.0500	
2,4-Dinitrophenol	0.2094	0.1743	80.00000	67.04750	ng	-16	40	0.0500	
4-Nitrophenol	0.1725	0.1910	80.00000	88.59690	ng	11	40	0.0500	
Dibenzofuran	1.4121	1.4150	80.00000	80.16700	ng	0	30	0.0500	
2,4-Dinitrotoluene	0.4372	0.4482	80.00000	82.00630	ng	3	30	0.0500	
Diethylphthalate	1.4158	1.5624	80.00000	88.28200	ng	10	30	0.0500	
Fluorene	1.1689	1.1150	80.00000	76.31400	ng	-5	30	0.0500	
4-Chlorophenyl-phenylether	0.6440	0.6047	80.00000	75.12340	ng	-6	40	0.0500	
4-Nitroaniline	0.2328	0.2655	80.00000	79.76720	ng	0	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534485889002
Calnum : 534481550001
Standards: 04WS1860

Run Name :
Filename : wl202
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 02-DEC-2004 10:26
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1541	0.1466	80.00000	76.09580	ng	-5	30	0.0500	
N-Nitrosodiphenylamine	0.4385	0.4660	80.00000	85.00960	ng	6	20	0.0500	
Azobenzene	0.6056	0.6128	80.00000	80.95260	ng	1	30	0.0500	
4-Bromophenyl-phenylether	0.2350	0.2431	80.00000	82.76620	ng	3	30	0.0500	
Hexachlorobenzene	0.2814	0.2725	80.00000	77.45910	ng	-3	30	0.0500	
Pentachlorophenol	0.1825	0.1826	80.00000	80.02270	ng	0	20	0.0500	
Phenanthrene	0.9302	0.9338	80.00000	80.30850	ng	0	30	0.0500	
Anthracene	0.9223	0.9068	80.00000	78.65440	ng	-2	30	0.0500	
Carbazole	0.6947	0.7382	80.00000	85.00660	ng	6	30	0.0500	
Di-n-butylphthalate	1.4234	1.4472	80.00000	81.34160	ng	2	30	0.0500	
Fluoranthene	1.1113	1.1150	80.00000	80.26650	ng	0	20	0.0500	
Benzidine	0.0663	0.0206	80.00000	24.88020	ng	-69	40	0.0500	c- crf
Pyrene	1.2937	1.4235	80.00000	88.02330	ng	10	30	0.0500	
Butylbenzylphthalate	0.7905	0.9012	80.00000	91.19780	ng	14	30	0.0500	
3,3'-Dichlorobenzidine	0.3517	0.4013	80.00000	91.26450	ng	14	40	0.0500	
Benzo(a)anthracene	1.2601	1.2139	80.00000	77.06280	ng	-4	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0459	1.1338	80.00000	86.72360	ng	8	30	0.0500	
Chrysene	1.1081	1.1135	80.00000	80.39100	ng	0	30	0.0500	
Di-n-octylphthalate	2.4686	2.7876	80.00000	90.33770	ng	13	20	0.0500	
Benzo(b)fluoranthene	1.5347	1.7387	80.00000	75.57610	ng	-6	30	0.0500	m
Benzo(k)fluoranthene	1.2235	1.2189	80.00000	79.69730	ng	0	30	0.0500	
Benzo(a)pyrene	1.1920	1.2154	80.00000	81.57060	ng	2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2066	1.2970	80.00000	85.99210	ng	7	30	0.0500	
Dibenz(a,h)anthracene	0.9726	1.0357	80.00000	85.19470	ng	6	30	0.0500	
Benzo(g,h,i)perylene	0.9922	1.0196	80.00000	82.20470	ng	3	30	0.0500	
2-Fluorophenol	1.0274	1.1099	80.00000	86.42130	ng	8	30	0.0500	
Phenol-d5	1.2147	1.2329	80.00000	81.19680	ng	1	30	0.0500	
Nitrobenzene-d5	0.3163	0.3360	80.00000	84.99530	ng	6	30	0.0500	
2-Fluorobiphenyl	1.1694	1.2457	80.00000	85.21420	ng	7	30	0.0500	
2,4,6-Tribromophenol	0.2764	0.2738	80.00000	79.25790	ng	-1	30	0.0500	
Terphenyl-d14	1.0075	1.0063	80.00000	79.90120	ng	0	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

INTERNAL STANDARD SUMMARY
- Curtis & Tompkins Laboratories

Sequence Date: 30-NOV-2004
Sequence: 514483154 (uku)
Instrument ID: MSBNA02

CCV Filename: uku02
Date Analyzed: 30-NOV-2004
Time Analyzed: 12:56

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	1313692	9.61	5070899	11.94	2546121	15.47	3596582	18.55	2470273	24.11	1573270	27.12
LOWER LIMIT	656846	9.11	2535450	11.44	1273061	14.97	1798291	18.05	1235137	23.61	786635	26.63
UPPER LIMIT	2627384	10.11	10141798	12.44	5092242	15.97	7193164	19.05	4940546	24.61	3146540	27.63

TYPE	SAMPLE	#												
CCV		002	1313692	9.61	5070899	11.94	2546121	15.47	3596582	18.55	2470273	24.11	1573270	27.13
BLANK	QC274208	004	785819	9.60	3163629	11.93	1527898	15.46	2185004	18.53	1667402	24.08	1111472	27.10
LCS	QC274209	005	821932	9.60	3298500	11.94	1598829	15.46	2285356	18.54	1642822	24.09	1082314	27.11
SAMPLE	176252-003	006	1111984	9.61	4188796	11.94	2001046	15.47	2655157	18.54	1535421	24.09	682862*	27.11
SAMPLE	176210-007	007	818471	9.60	3216620	11.94	1569685	15.47	2230877	18.53	1577598	24.09	983734	27.11
MSS	176211-001	008	904557	9.60	3462853	11.93	1606849	15.46	2160028	18.53	1244468	24.08	556987*	27.10
MS	QC273869	009	976956	9.60	3721628	11.94	1731243	15.47	2301237	18.54	1153134*	24.10	470083*	27.10
MSD	QC273870	010	369882*	9.60	1453674*	11.94	632975*	15.46	820540*	18.53	451337*	24.09	194863*	27.10
SAMPLE	176009-011	011	1030538	9.60	3873936	11.94	1713934	15.47	2116637	18.54	894535*	24.09	285868*	27.11
SAMPLE	176274-003	012	978248	9.60	3669191	11.94	1665363	15.46	2088120	18.54	841311*	24.08	261198*	27.10
SAMPLE	176274-005	013	947718	9.60	3574927	11.94	1580199	15.47	1939628	18.53	715729*	24.08	207177*	27.10
SAMPLE	176274-007	014	931003	9.60	3432935	11.94	1501369	15.47	1738646*	18.53	499151*	24.09	133154*	27.10
SAMPLE	176274-009	015	976674	9.60	3625478	11.94	1562796	15.47	1845205	18.53	520817*	24.08	136095*	27.10
MSS	176274-011	016	969197	9.60	3504243	11.94	1586813	15.47	1868671	18.54	542402*	24.08	136616*	27.10
MS	QC274210	017	926318	9.60	3618111	11.95	1640100	15.47	2105026	18.54	757634*	24.09	240025*	27.11
MSD	QC274211	018	965390	9.61	3556929	11.94	1604386	15.46	1863183	18.53	528884*	24.08	133934*	27.10

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 01-DEC-2004
Sequence: 534484489 (wl1)
Instrument ID: MSBNA04

CCV Filename: wl112
Date Analyzed: 01-DEC-2004
Time Analyzed: 17:46

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	306851	6.90	1051222	8.39	707766	10.53	1302949	12.33	1033343	15.67	834760	18.28
LOWER LIMIT	153426	6.40	525611	7.89	353883	10.03	651475	11.83	516672	15.17	417380	17.78
UPPER LIMIT	613702	7.40	2102444	8.89	1415532	11.03	2605898	12.83	2066686	16.17	1669520	18.78

TYPE	SAMPLE	#												
CCV		012	306851	6.90	1051222	8.39	707766	10.53	1302949	12.33	1033343	15.67	834760	18.28
BLANK	QC273867	013	221604	6.89	734471	8.38	466800	10.51	816326	12.32	711460	15.64	554141	18.26
LCS	QC273868	014	222994	6.89	761281	8.39	481107	10.52	843740	12.33	714238	15.66	547089	18.27
SAMPLE	176127-001	015	295549	6.89	1005210	8.38	651797	10.52	1108664	12.33	943078	15.64	721283	18.26
SAMPLE	176127-002	016	247471	6.89	840141	8.38	524419	10.51	802245	12.33	560257	15.65	283200*	18.26
SAMPLE	176127-005	017	256152	6.88	900841	8.39	561196	10.51	948789	12.32	773148	15.64	566094	18.25
SAMPLE	176127-006	018	324172	6.89	1093041	8.39	668865	10.51	1052957	12.33	705035	15.66	336940*	18.26
SAMPLE	176127-007	019	0*	0.00*	0*	0.00*	0*	0.00*	0*	0.00*	0*	0.00*	0*	0.00*
SAMPLE	176127-009	020	259394	6.89	915180	8.38	584661	10.52	980477	12.32	749911	15.65	479658	18.25
SAMPLE	176127-010	021	0*	0.00*	0*	0.00*	0*	0.00*	0*	0.00*	0*	0.00*	0*	0.00*
SAMPLE	176127-011	022	261062	6.89	964786	8.38	613713	10.51	1044533	12.32	832500	15.64	567061	18.25
SAMPLE	176127-012	023	298187	6.88	1054940	8.38	665353	10.51	1165013	12.32	930248	15.64	625147	18.25
MSS	176211-001	024	236443	6.89	784865	8.38	495754	10.51	815065	12.32	590845	15.64	348259*	18.25
SAMPLE	176100-004	025	290658	6.89	961303	8.38	585808	10.51	920570	12.33	595220	15.65	287569*	18.25
SAMPLE	176153-006	026	237004	6.89	822439	8.38	491492	10.52	801302	12.34	518419	15.66	246973*	18.28
SAMPLE	176089-013	027	249410	6.89	827230	8.38	515124	10.52	836114	12.33	579234	15.64	319372*	18.24
SAMPLE	176215-004	028	256272	6.89	862408	8.38	525022	10.51	864252	12.33	577904	15.64	291866*	18.25
SAMPLE	176215-005	029	385268	6.89	1293784	8.38	809534	10.52	1337321	12.34	841917	15.66	378886*	18.28

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 02-DEC-2004
Sequence: 534485889 (wl2)
Instrument ID: MSBNA04

CCV Filename: wl202
Date Analyzed: 02-DEC-2004
Time Analyzed: 10:26

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	263796	6.88	901591	8.38	587829	10.51	1051621	12.33	817420	15.66	633830	18.26
LOWER LIMIT	131898	6.38	450796	7.88	293915	10.01	525811	11.83	408710	15.16	316915	17.76
UPPER LIMIT	527592	7.38	1803182	8.88	1175658	11.01	2103242	12.83	1634840	16.16	1267660	18.76

TYPE	SAMPLE	#												
CCV		002	263796	6.88	901591	8.38	587829	10.51	1051621	12.33	817420	15.66	633830	18.26
SAMPLE	176163-001	004	234314	6.88	795494	8.37	527433	10.49	939047	12.31	766986	15.63	594955	18.24
SAMPLE	176163-002	005	241045	6.87	818792	8.37	520674	10.50	882884	12.31	654891	15.63	483637	18.24
SAMPLE	176163-003	006	260342	6.87	897821	8.36	576327	10.50	960109	12.31	693640	15.63	517802	18.24
SAMPLE	176153-005	007	203902	6.87	682690	8.37	420838	10.51	691229	12.33	542271	15.64	353034	18.25
SAMPLE	176188-006	008	219379	6.87	741933	8.36	477198	10.50	796974	12.31	575992	15.63	362491	18.24
MS	QC273869	009	214739	6.88	718899	8.38	463085	10.51	807089	12.32	562476	15.64	335640	18.25
MSD	QC273870	010	214932	6.88	724764	8.38	462778	10.51	775117	12.32	497459	15.64	264655*	18.24
PREPBLK	QC273988	011	258819	6.88	878816	8.37	558986	10.49	931410	12.31	633319	15.63	349715	18.22

* = Outside QC Limits

15 NAOC 8270 Calibration

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 03-NOV-2004

Sequence: 514444429 Instrument: MSBNA02 HP GCMS BNA 02
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	uk301	TUN	DFTPP 50NG			03-NOV-2004 15:09	1.0						1	
002	uk302	X				03-NOV-2004 15:29	1.0			1			2 cc+	
003	uk303	ICAL	2ug/ml ICAL			03-NOV-2004 16:56	1.0						3	
004	uk304	ICAL	5ug/ml ICAL			03-NOV-2004 17:41	1.0						4	
005	uk305	ICAL	10ug/ml ICAL			03-NOV-2004 18:27	1.0						5	
006	uk306	ICAL	20ug/ml ICAL			03-NOV-2004 19:12	1.0						6	
007	uk307	ICAL	50ug/ml ICAL			03-NOV-2004 19:58	1.0						2	
008	uk308	ICAL	80ug/ml ICAL			03-NOV-2004 20:43	1.0						7	
009	uk309	ICAL	100ug/ml ICA			03-NOV-2004 21:29	1.0						8	
010	uk310	ICAL	120ug/ml ICA			03-NOV-2004 22:16	1.0						9	
011	uk311	ICAL	160ug/ml ICA			03-NOV-2004 23:01	1.0						10	
012	uk312	ICV	80ug/ml ICV			03-NOV-2004 23:45	1.0	1		1			11	
013	uk313	ICV	50ug/ml ICV			04-NOV-2004 00:31	1.0	1		1			12	
014	uk314	ICV	50ug/ml ICV			04-NOV-2004 01:17	1.0	1		1			13	1:BZD=271.111
015	uk315	X	END BLANK			04-NOV-2004 02:02	1.0							
016	uk316	X	END BLANK			04-NOV-2004 02:47	1.0							
017	uk317	X	END BLANK			04-NOV-2004 03:32	1.0							

ICAL: Ok except Benzidine fails %RSD + r^2 → NO
ICV: Ok except Benzidine fails %D → NO
- Dibenz(a,h)anthracene fails ↑ warning limits 11/5/04

Stds used: 1=04WS1543 2=04WS1859 3=04WS1856 4=04WS1908 5=04WS1857 6=04WS1858 7=04WS1860 8=04WS1923 9=04WS1861 10=04WS1862 11=04WS1724 12=04WS2061 13=04WS2062

Flags used: +=high bias cc=CCV CCC failure

Analyst: [signature] Date: 11/4/04

11/04/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 29-NOV-2004

Sequence: 534481550 Instrument: MSBNA04 HP GCMS BNA 04
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	wkt01	TUN	DFTPP 50NG			29-NOV-2004 09:50	1.0					1	
002	wkt02	TUN	DFTPP 50NG			29-NOV-2004 10:12	1.0					1	
003	wkt03	CCV				29-NOV-2004 10:32	1.0	1.0	4		1	2 cc+	
004	wkt04	CCV				29-NOV-2004 11:18	1.0	1.0	4		1	2 cc+	
005	wkt05	ICAL	2ug/mL			29-NOV-2004 11:53	1.0	1.0				3	
006	wkt06	ICAL	5ug/mL			29-NOV-2004 12:28	1.0	1.0				4	
007	wkt07	ICAL	10ug/mL			29-NOV-2004 13:04	1.0	1.0				5	
008	wkt08	ICAL	20ug/mL			29-NOV-2004 13:39	1.0	1.0				6	
009	wkt09	ICAL	50ug/mL			29-NOV-2004 14:15	1.0	1.0				2	
010	wkt10	ICAL	80ug/mL			29-NOV-2004 14:51	1.0	1.0				7	
011	wkt11	ICAL	100ug/mL			29-NOV-2004 15:26	1.0	1.0				8	
012	wkt12	ICAL	120ug/mL			29-NOV-2004 16:02	1.0	1.0				9	
013	wkt13	ICAL	160ug/mL			29-NOV-2004 16:37	1.0	1.0				10	
014	wkt14	ICV	50ug/mL			29-NOV-2004 17:13	1.0	1.0			1	11	
015	wkt15	ICV	50ug/mL			29-NOV-2004 17:48	1.0	1.0	1		1	12	
016	wkt16	TUN	DFTPP 50NG			29-NOV-2004 18:17	1.0	1.0				13	
017	wkt17	TUN	DFTPP 50NG			29-NOV-2004 18:28	1.0	1.0				13	
018	wkt18	CCV				29-NOV-2004 18:46	1.0	1.0	2		1	2	
019	wkt19	X	PEM 04WS1624			29-NOV-2004 19:22	1.0						
020	wkt20	BLANK	QC273685	96838	Water	29-NOV-2004 19:58	1.0	0.001	2		1	14	
021	wkt21	BS	QC273686 (2)	96838	Water	29-NOV-2004 20:34	1.0	0.001	2		1	14 > RR B↓	
022	wkt22	BSD	QC273687	96838	Water	29-NOV-2004 21:10	1.0	0.001	2		1	14	
023	wkt23	BS	QC273147 (3)	96706	Water	29-NOV-2004 21:47	1.0	0.01			1	14	
024	wkt24	BSD	QC273148	96706	Water	29-NOV-2004 22:22	1.0	0.01			1	14	
025	wkt25	SAMPLE	176050-001	96706	TCLP L	29-NOV-2004 22:59	1.0	0.009524			1	14	
026	wkt26	SAMPLE	176180-009	96838	Water	29-NOV-2004 23:34	1.0	0.0009709			1	14 RR all B↓	
027	wkt27	SAMPLE	176178-004	96905	Water	30-NOV-2004 00:11	1.0	0.0009524			1	14 ⊥ #3,4,5,6 B↓	
028	wkt28	SAMPLE	176178-006 /	96905	Water	30-NOV-2004 00:46	1.0	0.001176			1	14	
029	wkt29	SAMPLE	176178-002	96905	Water	30-NOV-2004 01:22	1.0	0.001176			1	14 RR #4,5,6 B↓	
030	wkt30	SAMPLE	176153-015 /	96707	Water	30-NOV-2004 01:58	2.0	0.0009524		1	1	14	

Stds used: 1=04WS15543 2=04WS1859 3=04WS1856 4=04WS1908 5=04WS1857 6=04WS1858 7=04WS1860 8=04WS1923 9=04WS1861 10=04WS1862 11=04WS2061 12=04WS2062 13=04WS1543 14=04SS118

Flags used: +=high bias <<t=out of clock cc=CCV CCC failure

8270 Calibrations:
* ICAL: Aniline / Benzidine failed %RSD or r² = (NT)
* ICV: Benzidine ↑%D = (NT) & 3-Nitroaniline ↑ warning
- CCV WKT18 = Aniline / Benzidine failed = (NT)

Analyst: [illegible] Date: 11/30/04

11/30/04

Page 1 of 2

-7 ~~MSS~~

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 514483154 Instrument: MSBNA02 HP GCMS BNA 02 Begun: 30-NOV-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	uku01	TUN	DFTPP 50NG			30-NOV-2004 12:34	1.0	1.0				1	
002	uku02	CCV				30-NOV-2004 12:56	1.0	1.0	2		1	2	
003	uku03	X	PEM 04WS1924			30-NOV-2004 13:43	1.0						
004	uku04	BLANK	QC274208	96961	Soil	30-NOV-2004 14:29	1.0	0.03306	1		1	3	
005	uku05	LCS	QC274209	96961	Soil	30-NOV-2004 15:15	1.0	0.03301	2		1	3	
006	uku06	SAMPLE	176252-003	96905	Water	30-NOV-2004 16:01	1.0	0.0009434			1	3 spk	
007	uku07	SAMPLE	176210-007	96880	Soil	30-NOV-2004 16:47	1.0	0.03301			1	3	
008	~~uku08~~	~~MSS~~	176211-001	96880	Soil	30-NOV-2004 17:33	1.0	0.03328	1		1	3	
009	uku09	MS	QC273869 (9)	96880	Soil	30-NOV-2004 18:19	1.0	0.03315	2		1	3	PR all R1
010	uku10	MSD	QC273870	96880	Soil	30-NOV-2004 19:04	1.0	0.03288	2		1	3	
011	uku11	SAMPLE	176009-011	96693	Soil	30-NOV-2004 19:49	10.0	0.1658			1	3	
012	uku12	SAMPLE	176274-003	96961	Soil	30-NOV-2004 20:36	5.0	0.03343			1	3	PR #5, 6 R1
013	uku13	SAMPLE	176274-005	96961	Soil	30-NOV-2004 21:22	5.0	0.03343			1	3	
014	uku14	SAMPLE	176274-007	96961	Soil	30-NOV-2004 22:07	1.0	0.03301	1	1	1	3	#4, 5, 6 R1 / #2 SS1 - but not in CCV
015	uku15	SAMPLE	176274-009	96961	Soil	30-NOV-2004 22:54	5.0	0.03295		1	1	3	#5, 6 R1 / #2 SS1
016	uku16	MSS	176274-011	96961	Soil	30-NOV-2004 23:41	5.0	0.03342	1	1	1	3	
017	uku17	MS	QC274210	96961	Soil	01-DEC-2004 00:28	5.0	0.03352	2	1	1	3	
018	uku18	MSD	QC274211	96961	Soil	01-DEC-2004 01:15	5.0	0.03306	67	2	1	3 <<t	PR outside clock
019	uku19	X	END BLANK			01-DEC-2004 02:02	1.0						
020	uku20	X	END BLANK			01-DEC-2004 02:49	1.0						
021	uku21	X	END BLANK			01-DEC-2004 03:34	1.0						

* ICAL: Benzidine failed = NT
* ICV: Benzidine failed = NT
  : Dibenz (ah) anthracene ↑ warning limit
* CCV: Dibenz (ah) anthracene ↑ 1,D & Benzidine failed = NT
  : N-nitrosodimethylamine ↑ / Indeno (123-cd) pyrene ↑ / Benzo (ghi) perylene ↑ / 2,4,6-Tribromophenol ↑ (SICKR) warning limit

Stds used: 1=04WS1543 2=04WS1859 3=04SS118
Flags used: <<t=out of clock spk=5% spike rule

Analyst: [illegible] Date: 12/1/04

Page 1 of 1

12/01/04

NB | LCS | MSS

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 534484489 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 01-DEC-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	wl101	TUN	NP NL			01-DEC-2004 10:49	1.0	1.0				1	
002	wl102	CCV				01-DEC-2004 11:11	1.0	1.0	2		1	2	
003	wl103	X	PEM 04WS1924			01-DEC-2004 11:48	1.0						
004	wl104	MS	QC273869 (a)	96880	Soil	01-DEC-2004 12:24	1.0	0.03315	2	2	1	3	
005	wl105	MSD	QC273870	96880	Soil	01-DEC-2004 12:59	1.0	0.03288	2	1	1	3	
006	wl106	MSD	QC274211 (b)	96961	Soil	01-DEC-2004 13:34	5.0	0.03306	1		1	3 Report	
007	wl107	SAMPLE	176274-003	96961	Soil	01-DEC-2004 14:09	5.0	0.03343			1	3	
008	wl108	SAMPLE	176274-005	96961	Soil	01-DEC-2004 14:44	5.0	0.03343			1	3	
009	wl109	SAMPLE	176274-009	96961	Soil	01-DEC-2004 15:19	5.0	0.03295			1	3	
010	wl110	SAMPLE	176274-007	96961	Soil	01-DEC-2004 15:54	1.0	0.03301			1	3	
011	wl111	TUN	DFTPP 50NG			01-DEC-2004 17:29	1.0	1.0				1	
012	wl112	CCV				01-DEC-2004 17:46	1.0	1.0	2		1	2	
013	wl113	BLANK	QC273867	96880	Soil	01-DEC-2004 18:21	1.0	0.03299	2		1	3 Report	
014	wl114	LCS	QC273868	96880	Soil	01-DEC-2004 18:55	1.0	0.03291	2	1	1	3 Report	
015	wl115	SAMPLE	176127-001	96721	Water	01-DEC-2004 19:31	1.0	0.0009804			1	3	
016	wl116	SAMPLE	176127-002	96721	Water	01-DEC-2004 20:07	1.0	0.0009804	1		1	3	
017	wl117	SAMPLE	176127-005	96721	Water	01-DEC-2004 20:42	1.0	0.0009615			1	3	
018	wl118	SAMPLE	176127-006	96721	Water	01-DEC-2004 21:18	1.0	0.0009901	1		1	3	
019	wl119	SAMPLE	176127-007	96721	Water	01-DEC-2004 21:54	1.0	0.0009709				3 RR no IS added	
020	wl120	SAMPLE	176127-009	96721	Water	01-DEC-2004 22:29	1.0	0.0009709			1	3	
021	wl121	SAMPLE	176127-010	96721	Water	01-DEC-2004 23:04	1.0	0.001				3 RR no IS added	
022	wl122	SAMPLE	176127-011	96721	Water	01-DEC-2004 23:40	1.0	0.0009434			1	3	
023	wl123	SAMPLE	176127-012	96721	Water	02-DEC-2004 00:17	1.0	0.0009434			1	3	
024	wl124	MSS	176211-001	96880	Soil	02-DEC-2004 00:52	1.0	0.03328	2		1	3 Report	
025	wl125	SAMPLE	176100-004	96838	Water	02-DEC-2004 01:27	1.0	0.0009709			1	3	
026	wl126	SAMPLE	176153-006	96880	Soil	02-DEC-2004 02:03	1.0	0.03348			1	3	
027	wl127	SAMPLE	176089-013	96932	Soil	02-DEC-2004 02:37	2.0	0.03306			1	3	
028	wl128	SAMPLE	176215-004	96905	Water	02-DEC-2004 03:13	10.0	0.0009709			1	3	
029	wl129	SAMPLE	176215-005	96905	Water	02-DEC-2004 03:48	1.0	0.0009615		1	1	3	
030	wl130	X	END BLANK			02-DEC-2004 04:23	1.0						
031	wl131/32	X	END BLANK			02-DEC-2004 04:59	1.0						

* ICAL: Aniline / Benzidine failed = (M)
* ICV: Benzidine f/D
= 3-Nitroaniline ↑ warning limit
* CCV WL102 = Aniline / Benzidine failed = (M) 4,6-Dinitro-2-methyl Phenol ↓ warning limits
CCV WL112 = Aniline / Benzidine failed = (M)
= Benzoic Acid ↑ warning limit.

Stds used: 1=04WS1543 2=04WS1859 3=04SS118

Analyst: WA Date: 12/2/04

Page 1 of 2

12/02/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 534485889 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 02-DEC-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	wl201	TUN	DFTPP 50NG			02-DEC-2004 10:09	1.0					1	
002	wl202	CCV				02-DEC-2004 10:26	1.0	1.0	2		1	2	
003	wl203	X	PEM 04WS1924			02-DEC-2004 11:00	1.0						
004	wl204	SAMPLE	176163-001	96721	Water	02-DEC-2004 11:36	1.0	0.001176		1	1	3 RR #less	
005	wl205	SAMPLE	176163-002	96721	Water	02-DEC-2004 12:11	1.0	0.0009524	73		1	3 sh	
006	wl206	SAMPLE	176163-003	96721	Water	02-DEC-2004 12:46	1.0	0.001111			1	3	
007	wl207	SAMPLE	176153-005	96880	Soil	02-DEC-2004 13:20	1.0	0.03347	1		1	3 1:NO2ANI=190.307	
008	wl208	SAMPLE	176188-006	96932	Soil	02-DEC-2004 13:55	1.0	0.03294			1	3	
009	wl209	MS	QC273869 (a)	96880	Soil	02-DEC-2004 14:29	1.0	0.03315	2		1	3	
010	wl210	MSD	QC273870	96880	Soil	02-DEC-2004 15:04	1.0	0.03288	2		1	3	
011	wl211	PREPBLK	QC273988 (b)	96911	TCLP L	02-DEC-2004 15:40	1.0	0.009474	2		1	3	
012	wl212	TUN	DFTPP 50NG			02-DEC-2004 16:55	1.0	1.0				4	
013	wl213	CCV				02-DEC-2004 17:13	1.0	1.0	2		1	2	
014	wl214	BLANK	QC274650 (5)	97075	Soil	02-DEC-2004 17:47	1.0	0.03329	2		1	3	
015	wl215	LCS	QC274651	97075	Soil	02-DEC-2004 18:23	1.0	0.03293	1	7	1	3 ~~spk~~	
016	wl216	BLANK	QC274321 (a)	96990	Water	02-DEC-2004 18:58	1.0	0.001	2		1	3	
017	wl217	LCS	QC274322	96990	Water	02-DEC-2004 19:33	1.0	0.001	2	5	1	3 ~~spk~~	
018	wl218	MSS	176257-006	96990	Water	02-DEC-2004 20:09	1.0	0.0009524	2		1	3 ~~spk~~	
019	wl219	MS	QC274323	96990	Water	02-DEC-2004 20:44	1.0	0.0009434	2	2	1	3	
020	wl220	MSD	QC274324	96990	Water	02-DEC-2004 21:20	1.0	0.0009434	2	2	1	3	
021	wl221	SAMPLE	176290-005	96990	Water	02-DEC-2004 21:56	1.0	0.0009524		1	1	3 ~~spk~~ RR 2X #1ss	
022	wl222	SAMPLE	176127-007	96721	Water	02-DEC-2004 22:32	1.0	0.0009709			1	3	
023	wl223	SAMPLE	176127-010	96721	Water	02-DEC-2004 23:08	1.0	0.001			1	3	
024	wl224	SAMPLE	176127-013	96721	Water	02-DEC-2004 23:45	1.0	0.0009434				3 RR inj error	
025	wl225	SAMPLE	176297-002	97075	Soil	03-DEC-2004 00:20	1.0	0.03333			1	3 ~~spk~~	
026	wl226	SAMPLE	176297-003	97075	Soil	03-DEC-2004 00:56	1.0	0.03328			1	3 ~~spk~~ RR √ Benzo (b)	
027	wl227	SAMPLE	176298-001	97075	Soil	03-DEC-2004 01:31	1.0	0.03324			1	3 ~~spk~~	
028	wl228	SAMPLE	176297-001	97075	Soil	03-DEC-2004 02:07	1.0	0.03327			1	3 ~~spk~~	
029	wl229	SAMPLE	176298-002	97075	Soil	03-DEC-2004 02:42	1.0	0.03333			1	3 ~~spk~~	
030	wl230	SAMPLE	176299-001	97075	Soil	03-DEC-2004 03:18	1.0	0.03288			1	3 ~~spk~~ RR #5.6.B	

Stds used: 1=04WS15543 2=04WS1860 3=04SS118 4=04WS1543
Flags used: <<t=out of clock sh=out of sample hold ~~spk=5% spike rule~~

* ICAL = Aniline/Benzidine failed = NT
* ICV: Benzidine ↑%D = NT / 3-Nitroaniline ↑ warning limit.
* CCV WL202: Aniline / Benzidine failed = NT
  Benzoic Acid ↑ warning limit.
CCV WL213: Aniline / Benzidine failed = NT

Analyst: [illegible] Date: 12/3/04

Page 1 of 2

12/3/04

REPORTING SUMMARY FOR 176210 8270 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | NPBCDDBDMBMNHNIND | BBDTNCHCMHTTCND | ADNADNDDDFCNDNAB | HPPADFPBDBCBDBBIDNHILCCZCEIEN | COSTMZECCALC4TCC | CNOMCNOCNTBNELPO | NNZPCCHNNLYBBZHIN | ZZZNBSESPBBLBPSPS | LO2OPPACPBPABMNC | PPP2PNT2NPPFTP PP | 24SBPLPATBARPZAR | SOBKAPAMNZHZAZHP | HZCEB1HNUP2HAHP2 | APHHP2H 2H EA6PZEB NHP D | AYPFFP1H | | |

Curtis & Tompkins Laboratories **Sample Preparation Summary** **24-NOV-2004 15:36**

Batch Number : 96880
Date Extracted: 24-NOV-2004
Extracted by : Amy Silverberg
Prep Method : 3550B

Analysis : N/A
Bgroup : MSSVOA
Units : g
Clean-up :

Spike #1 ID : 04WS2188B
Spike #2 ID : 04WS2203B
Spike #3 ID : 04WS2192C

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176008-003			Brighton Environmental	Soil	29.82	g	1	0.033535	1		1	0	0	8270		
176008-006			Brighton Environmental	Soil	30.21	g	1	0.033102	1		1	0	0	8270		
176153-001			URS Corporation	Soil	30.11	g	1	0.033212	1		1	0	0	8270		
176153-002			URS Corporation	Soil	30.05	g	1	0.033278	1		1	0	0	8270		
176153-003			URS Corporation	Soil	29.77	g	1	0.033591	1		1	0	0	8270		
176153-004			URS Corporation	Soil	30.32	g	1	0.032982	1		1	0	0	8270		
176153-005			URS Corporation	Soil	29.88	g	1	0.033467	1		1	0	0	8270		
176153-006			URS Corporation	Soil	29.87	g	1	0.033478	1		1	0	0	8270		
176153-007			URS Corporation	Soil	30.05	g	1	0.033278	1		1	0	0	8270		
176153-009			URS Corporation	Soil	30.38	g	1	0.032916	1		1	0	0	8270		
176153-010			URS Corporation	Soil	29.81	g	1	0.033546	1		1	0	0	8270		
176185-001			LFR Levine Fricke	Soil	29.82	g	1	0.033535	1		1	0	0	8270		
176193-001			URS Corporation	Soil	30.14	g	1	0.033179	1		1	0	0	8270		
176193-002			URS Corporation	Soil	29.93	g	1	0.033411	1		1	0	0	8270		
176193-003			URS Corporation	Soil	30.27	g	1	0.033036	1		1	0	0	8270		
176193-004			URS Corporation	Soil	29.74	g	1	0.033625	1		1	0	0	8270		
176194-001			URS Corporation	Soil	30.29	g	1	0.033014	1		1	0	0	8100		
176195-001			URS Corporation	Soil	29.83	g	1	0.033523	1		1	0	0	8100		
176210-007			Treadwell & Rollo	Soil	30.29	g	1	0.033014	1		1	0	0	8270		
176211-001			CH2M Hill Constructors Inc.	Soil	30.05	g	1	0.033278	1		1	0	0	8270		MSS
QC273867	MB			Soil	30.31	g	1	0.032992	1		1	0	0	MSSVOA		
QC273868	LCS			Soil	30.39	g	1	0.032906	1		1	1	1	MSSVOA		
QC273869	MS	of 176211-001		Soil	30.17	g	1	0.033146	1		1	1	1	MSSVOA		
QC273870	MSD	of 176211-001		Soil	30.41	g	1	0.032884	1		1	1	1	MSSVOA		

Prep Chemist: ASilverberg Reviewed By: Jessie Kee Date: 11/24/04

Relinquished By: ASilverberg Received By: [illegible] Date: 11/24/04

LIMS Batch No: 96880
LIMS Analysis MSSVOA
Extracted by: AMS
Date Extracted: 11/24/04

Extraction Method:
☑ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel
☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
176153-001	30.11	1.0		
-002	30.05			
-003	29.77			
-004	30.32			
-005	29.88			
-006	29.87			
-007	30.05			
-009	30.38			
-010	29.81			
176185-001	29.82			
176193-001	30.14			
-002	29.93			
-003	30.27			
-004	29.74			
176194-001	30.29			
176195-001	29.83			
176008-003	29.82			
-006	30.21			
176210-007	30.29			
176211-001	30.05			MSS
MB QL273867	30.31			
LCS 68	30.39			
MS 69	30.17			
MSD 70	30.41			
				JCM 11/24/04

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM44028421	AMS 11/24/04
Samples were dried with baked, CH_2Cl_2-rinsed granular Na_2SO_4	EM44135434	
1.0 mL of surrogate solution was added to all samples	04WS2188B	
1.0/1.0 mL of matrix spiking solution was added to all spikes	04WS2203B/04WS2192C	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM44267	
Acetone	EM44179	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	N/A	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM44135433	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel	N/A	
Concentrated to final volumes as noted above	✓	

11/24/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

11/24/04
Reviewed by / Date

Project Soil Aliquot BK2032

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176168-005A		8100	
-006			
-011			
-012			
-013			
-014			
-015			
-016			
176210-001A	15.08	PCB	
-002	14.92		
-003	14.86		
-004	15.08		
-005	15.10		
-006	14.80		
-007	15.20		
-008	14.82		
-009	15.13		
-010	15.14		
-011	14.80		
176210-001A	14.90	8081	
-002	14.94		
-003	15.19		
-004	14.98		
-005	15.18		
-006	15.07		
-007	14.99		
-008	15.11		
-009	14.90		
-010	15.07		
-011	14.82		
176210-007A	30.29	8270	
-007	50.06	TEHM	

Continued on Page

Michelle Curtis
Signed

11/22/04
Date

Read and Understood By

BX2032

Project: Soil Aliquot

Continued from Page: —

Sample ID	Weight (g)	Analysis	Comments
176211-001A	14.99	PCB	
176180-010 A	14.94		MSS
-011	14.90		
-012	15.23		
176185-001-A	14.90		EM44028421
MB	15.12		
LCS	14.99		176180-011A
MS	14.95		
MSD	15.06		
176185-001A	14.89	8081	
MB	14.92		EM44028421
LCS	14.93		
176164-001A	15.13	PCB	
-003	14.98		
176212-001A	50.32	TEHM	
176211-001A	30.05	8270	MSS
-001	50.09	TEHM	MSS
MS	50.01		176211-001A
MSD	49.82		
MS	30.17	8270	176211-001A
MSD	30.41		
LCS	30.39		EM44028421
MB	30.31		
LCS	49.85	TEHM	
MB	49.88		
176153-001	30.11	8270	
-002	30.05		
-003	29.77		
-004	30.32		
-005	29.88		
-006	29.87		
-007	30.05		
-008	30.38		
-010	29.81		

MC 11/23/04

Continued on Page —

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Michelle Curtis — Signed

11/23/04 — Date

Signed — Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05	MSBNA06
Phenol	ug/Kg	10/21/04 51	10/20/04 66	04/16/03 28	10/21/04 50	10/19/04 70	11/02/04 37
2-Chlorophenol	ug/Kg	10/21/04 52	10/20/04 61	04/16/03 22	10/21/04 39	10/19/04 75	11/02/04 69
1,4-Dichlorobenzene	ug/Kg	10/21/04 16	10/20/04 40	04/16/03 26	10/21/04 29	10/19/04 34	11/02/04 36
N-Nitroso-di-n-propylamine	ug/Kg	10/21/04 56	10/20/04 38	04/16/03 20	10/21/04 31	10/19/04 37	11/02/04 33
1,2,4-Trichlorobenzene	ug/Kg	10/21/04 10	10/20/04 36	04/16/03 22	10/21/04 18	10/19/04 30	11/02/04 35
4-Chloro-3-methylphenol	ug/Kg	10/21/04 90	10/20/04 64	04/16/03 35	10/21/04 40	10/19/04 68	11/02/04 71
Acenaphthene	ug/Kg	10/21/04 17	10/20/04 26	04/25/03 14	10/21/04 20	10/19/04 34	11/02/04 31
4-Nitrophenol	ug/Kg	10/21/04 130	10/20/04 47	04/16/03 36	10/21/04 31	10/19/04 66	11/02/04 66
2,4-Dinitrotoluene	ug/Kg	10/21/04 38	10/20/04 26	04/16/03 21	10/21/04 29	10/19/04 34	11/02/04 30
Pentachlorophenol	ug/Kg	10/21/04 100	10/20/04 56	04/16/03 47	10/21/04 87	10/19/04 71	11/02/04 130
Pyrene	ug/Kg	10/21/04 33	10/20/04 30	04/25/03 11	10/21/04 21	10/19/04 34	11/02/04 34
N-Nitrosodimethylamine	ug/Kg	10/21/04 29	10/20/04 25	04/16/03 22	10/21/04 38	10/19/04 36	11/02/04 30
Pyridine	ug/Kg	10/21/04 34	10/20/04 28	04/16/03 21	10/21/04 47	10/19/04 24	11/02/04 45
Aniline	ug/Kg	04/18/03 36	04/16/03 25	04/16/03 35	04/16/03 34	04/18/03 35	
bis(2-Chloroethyl)ether	ug/Kg	10/21/04 20	10/20/04 45	04/16/03 24	10/21/04 26	10/19/04 47	11/02/04 31
1,3-Dichlorobenzene	ug/Kg	10/21/04 21	10/20/04 29	04/16/03 24	10/21/04 25	10/19/04 28	11/02/04 33
Benzyl alcohol	ug/Kg	10/21/04 38	10/20/04 37	04/16/03 18	10/21/04 19	10/19/04 39	11/02/04 33
1,2-Dichlorobenzene	ug/Kg	10/21/04 22	10/20/04 33	04/16/03 25	10/21/04 32	10/19/04 33	11/02/04 35
2-Methylphenol	ug/Kg	10/21/04 60	10/20/04 76	04/16/03 25	10/21/04 59	10/19/04 82	11/02/04 40
bis(2-Chloroisopropyl) ether	ug/Kg	10/21/04 18	10/20/04 40	04/16/03 21	10/21/04 23	10/19/04 39	11/02/04 30
4-Methylphenol	ug/Kg	10/21/04 81	10/20/04 60	04/16/03 25	10/21/04 45	10/19/04 76	11/02/04 44
Hexachloroethane	ug/Kg	10/21/04 53	10/20/04 41	04/16/03 24	10/21/04 23	10/19/04 30	11/02/04 35
Nitrobenzene	ug/Kg	10/21/04 35	10/20/04 32	04/16/03 20	10/21/04 26	10/19/04 39	11/02/04 28
Isophorone	ug/Kg	10/21/04 41	10/20/04 37	04/16/03 18	10/21/04 21	10/19/04 35	11/02/04 47
2-Nitrophenol	ug/Kg	10/21/04 65	10/20/04 71	04/16/03 26	10/21/04 45	10/19/04 61	11/02/04 69
2,4-Dimethylphenol	ug/Kg	10/21/04 79	10/20/04 79	04/16/03 72	10/21/04 58	10/19/04 68	11/02/04 69
Benzoic acid	ug/Kg	04/28/03 49	10/20/04 26	04/16/03 200	10/21/04 56	10/19/04 70	11/02/04 91
bis(2-Chloroethoxy)methane	ug/Kg	10/21/04 17	10/20/04 36	04/16/03 22	10/21/04 22	10/19/04 39	11/02/04 34
2,4-Dichlorophenol	ug/Kg	10/21/04 66	10/20/04 59	04/16/03 25	10/21/04 52	10/19/04 59	11/02/04 51
Naphthalene	ug/Kg	10/21/04 23	10/20/04 30	04/16/03 22	10/21/04 21	10/19/04 36	11/02/04 34
4-Chloroaniline	ug/Kg	10/21/04 11	10/20/04 21	04/16/03 36	10/21/04 16	10/19/04 21	11/02/04 19
Hexachlorobutadiene	ug/Kg	10/21/04 44	10/20/04 34	04/16/03 23	10/21/04 25	10/19/04 28	11/02/04 35
2-Methylnaphthalene	ug/Kg	10/21/04 28	10/20/04 34	04/16/03 24	10/21/04 29	10/19/04 30	11/02/04 38
Hexachlorocyclopentadiene	ug/Kg	10/21/04 31	10/20/04 58	04/16/03 110	10/21/04 40	10/19/04 38	11/02/04 52
2,4,6-Trichlorophenol	ug/Kg	10/21/04 88	10/20/04 55	04/16/03 29	10/21/04 43	10/19/04 59	11/02/04 55
2,4,5-Trichlorophenol	ug/Kg	10/21/04 110	10/20/04 47	04/16/03 33	10/21/04 42	10/19/04 57	11/02/04 58

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05	MSBNA06
2-Chloronaphthalene	ug/Kg	10/21/04 20	10/20/04 43	04/16/03 20	10/21/04 20	10/19/04 39	11/02/04 34
2-Nitroaniline	ug/Kg	10/21/04 29	10/20/04 35	04/25/03 8.8	10/21/04 23	10/19/04 49	11/02/04 38
Dimethylphthalate	ug/Kg	10/21/04 20	10/20/04 31	04/16/03 26	10/21/04 17	10/19/04 35	11/02/04 31
Acenaphthylene	ug/Kg	10/21/04 12	10/20/04 22	04/25/03 14	10/21/04 14	10/19/04 28	11/02/04 22
2,6-Dinitrotoluene	ug/Kg	10/21/04 30	10/20/04 16	04/16/03 32	10/21/04 16	10/19/04 33	11/02/04 33
3-Nitroaniline	ug/Kg	10/21/04 38	10/20/04 17	04/25/03 16	10/21/04 26	10/19/04 25	11/02/04 20
2,4-Dinitrophenol	ug/Kg	10/21/04 62	10/20/04 28	04/16/03 200	10/21/04 25	10/19/04 45	11/02/04 31
Dibenzofuran	ug/Kg	10/21/04 15	10/20/04 32	04/16/03 24	10/21/04 16	10/19/04 34	11/02/04 36
Diethylphthalate	ug/Kg	10/21/04 15	10/20/04 29	04/16/03 27	10/21/04 21	10/19/04 38	11/02/04 32
Fluorene	ug/Kg	10/21/04 20	10/20/04 31	04/25/03 15	10/21/04 20	10/19/04 38	11/02/04 30
4-Chlorophenyl-phenylether	ug/Kg	10/21/04 28	10/20/04 32	04/16/03 25	10/21/04 17	10/19/04 36	11/02/04 36
4-Nitroaniline	ug/Kg	10/21/04 38	10/20/04 25	04/16/03 30	10/21/04 16	10/19/04 38	11/02/04 17
4,6-Dinitro-2-methylphenol	ug/Kg	10/21/04 49	10/20/04 52	04/16/03 230	10/21/04 40	10/19/04 80	11/02/04 38
N-Nitrosodiphenylamine	ug/Kg	10/21/04 16	10/20/04 33	04/16/03 34	10/21/04 25	10/19/04 36	11/02/04 31
Azobenzene	ug/Kg	10/21/04 17	10/20/04 34	04/16/03 29	10/21/04 17	10/19/04 46	11/02/04 24
4-Bromophenyl-phenylether	ug/Kg	10/21/04 8.7	10/20/04 34	04/16/03 25	10/21/04 21	10/19/04 30	11/02/04 34
Hexachlorobenzene	ug/Kg	10/21/04 8.7	10/20/04 43	04/16/03 25	10/21/04 28	10/19/04 32	11/02/04 34
Phenanthrene	ug/Kg	10/21/04 5.9	10/20/04 30	04/25/03 13	10/21/04 18	10/19/04 37	11/02/04 31
Anthracene	ug/Kg	10/21/04 2.3	10/20/04 26	04/25/03 14	10/21/04 9.5	10/19/04 29	11/02/04 20
Di-n-butylphthalate	ug/Kg	10/21/04 13	10/20/04 34	04/16/03 37	10/21/04 17	10/19/04 39	11/02/04 26
Fluoranthene	ug/Kg	10/21/04 15	10/20/04 32	04/25/03 12	10/21/04 22	10/19/04 36	11/02/04 32
Benzidine	ug/Kg	04/28/03 80	05/02/03 33				
Butylbenzylphthalate	ug/Kg	10/21/04 38	10/20/04 25	04/16/03 28	10/21/04 22	10/19/04 38	11/02/04 37
3,3'-Dichlorobenzidine	ug/Kg	10/21/04 25	10/20/04 18	04/16/03 49	10/21/04 27	10/19/04 24	11/02/04 32
Benzo(a)anthracene	ug/Kg	10/21/04 41	10/20/04 25	04/25/03 11	10/21/04 23	10/19/04 32	11/02/04 27
Chrysene	ug/Kg	10/21/04 31	10/20/04 35	04/25/03 13	10/21/04 17	10/19/04 30	11/02/04 27
bis(2-Ethylhexyl)phthalate	ug/Kg	10/21/04 40	10/20/04 17	04/16/03 28	10/21/04 16	10/19/04 33	11/02/04 52
Di-n-octylphthalate	ug/Kg	10/21/04 32	10/20/04 10	04/16/03 29	10/21/04 13	10/19/04 39	11/02/04 29
Benzo(b)fluoranthene	ug/Kg	10/21/04 31	10/20/04 42	04/25/03 12	10/21/04 24	10/19/04 29	11/02/04 24
Benzo(k)fluoranthene	ug/Kg	10/21/04 18	10/20/04 22	04/25/03 9.2	10/21/04 37	10/19/04 43	11/02/04 27
Benzo(a)pyrene	ug/Kg	10/21/04 29	10/20/04 23	04/25/03 11	10/21/04 13	10/19/04 27	11/02/04 21
Indeno(1,2,3-cd)pyrene	ug/Kg	10/21/04 44	10/20/04 39	04/25/03 14	10/21/04 14	10/19/04 37	11/02/04 29
Dibenz(a,h)anthracene	ug/Kg	10/21/04 57	10/20/04 25	04/25/03 14	10/21/04 23	10/19/04 35	11/02/04 27
Benzo(g,h,i)perylene	ug/Kg	10/21/04 53	10/20/04 23	04/25/03 14	10/21/04 17	10/19/04 38	11/02/04 26

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX145[0.5]	Batch#:	96774
Lab ID:	176210-001	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	18	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	9.8	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	4.2	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	10 C	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	2.3	1.7	0.51
gamma-Chlordane	3.5 C	1.7	0.48
Methoxychlor	ND	17	
Toxaphene	ND	62	

Surrogate	%REC	Limits
TCMX	65	65-135
Decachlorobiphenyl	79	65-135

C= Presence confirmed, but RPD between columns exceeds 40%
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX145[1.0]	Batch#:	96774
Lab ID:	176210-002	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 5%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	15	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	ND	1.8	0.53
gamma-Chlordane	ND	1.8	0.49
Methoxychlor	ND	18	
Toxaphene	ND	63	

Surrogate	%REC	Limits
TCMX	69	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX146[0.5]	Batch#:	96774
Lab ID:	176210-003	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	2.7	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	6.3	3.3	
4,4'-DDE	4.2	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	11	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	1.9	1.7	0.50
gamma-Chlordane	2.1	1.7	0.48
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	65	65-135
Decachlorobiphenyl	80	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX146[1.0]	Batch#:	96774
Lab ID:	176210-004	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.49
Methoxychlor	ND	18	
Toxaphene	ND	63	

Surrogate	%REC	Limits
TCMX	63 *	65-135
Decachlorobiphenyl	81	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX147[0.5]	Batch#:	96774
Lab ID:	176210-005	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 7%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	4.4	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	4.8 C	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	7.0	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	1.6 J	1.8	0.53
gamma-Chlordane	1.7 C J	1.8	0.51
Methoxychlor	ND	18	
Toxaphene	ND	64	

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	91	65-135

C= Presence confirmed, but RPD between columns exceeds 40%
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX147[1.5]	Batch#:	96774
Lab ID:	176210-006	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 5%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.53
gamma-Chlordane	ND	1.8	0.49
Methoxychlor	ND	18	
Toxaphene	ND	63	

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	94	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX149[0.5]	Batch#:	96774
Lab ID:	176210-007	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.49
Methoxychlor	ND	18	
Toxaphene	ND	63	

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	93	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX150[0.5]	Batch#:	96774
Lab ID:	176210-008	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/23/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.49
Methoxychlor	ND	18	
Toxaphene	ND	62	

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	85	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX150[2.5]	Batch#:	96774
Lab ID:	176210-009	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/24/04
Diln Fac:	1.000		

Moisture: 6%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	ND	1.8	0.53
gamma-Chlordane	ND	1.8	0.50
Methoxychlor	ND	18	
Toxaphene	ND	64	

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	104	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP112204A	Batch#:	96774
Lab ID:	176210-010	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/24/04
Diln Fac:	1.000		

Moisture: 6%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	ND	1.8	0.53
gamma-Chlordane	ND	1.8	0.50
Methoxychlor	ND	18	
Toxaphene	ND	64	

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	101	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX148[0.5]	Batch#:	96774
Lab ID:	176210-011	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	dry	Analyzed:	11/24/04
Diln Fac:	1.000		

Moisture: 8%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.9	
beta-BHC	ND	1.9	
gamma-BHC	14	1.9	
delta-BHC	ND	1.9	
Heptachlor	ND	1.9	
Aldrin	ND	1.9	
Heptachlor epoxide	ND	1.9	
Endosulfan I	ND	1.9	
Dieldrin	8.4	3.6	
4,4'-DDE	3.9	3.6	
Endrin	ND	3.6	
Endosulfan II	ND	3.6	
Endosulfan sulfate	ND	3.6	
4,4'-DDD	ND	3.6	
Endrin ketone	ND	3.6	
4,4'-DDT	15	3.6	
Chlordane (Technical)	ND	33	
alpha-Chlordane	2.6	1.9	0.55
gamma-Chlordane	3.1	1.9	0.52
Methoxychlor	ND	19	
Toxaphene	ND	66	

Surrogate	%REC	Limits
TCMX	68	65-135
Decachlorobiphenyl	76	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273432	Batch#:	96774
Matrix:	Soil	Prepared:	11/22/04
Units:	ug/Kg	Analyzed:	11/23/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	ND	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	ND	1.7	0.50
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND	17	
Toxaphene	ND	59	

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	101	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC273433	Batch#:	96774
Matrix:	Soil	Prepared:	11/22/04
Units:	ug/Kg	Analyzed:	11/23/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.51	16.50	100	65-135
Heptachlor	16.51	16.51	100	65-135
Aldrin	16.51	17.01	103	65-135
Dieldrin	16.51	16.71	101	65-135
Endrin	16.51	16.41	99	65-135
4,4'-DDT	16.51	16.57	100	65-135

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	103	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	96774
MSS Lab ID:	176193-002	Sampled:	11/20/04
Matrix:	Soil	Received:	11/22/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	as received	Analyzed:	11/24/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC273434

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.3700	16.81	13.31	79	65-135
Heptachlor	<0.4900	16.81	13.70	82	65-135
Aldrin	<0.4100	16.81	13.57	81	65-135
Dieldrin	0.6907	16.81	13.49	76	65-135
Endrin	<0.6800	16.81	13.21	79	65-135
4,4'-DDT	<1.200	16.81	12.81	76	65-135

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	67	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC273435

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.77	11.71	70	65-135	13	35
Heptachlor	16.77	11.60	69	65-135	16	35
Aldrin	16.77	11.77	70	65-135	14	35
Dieldrin	16.77	12.75	72	65-135	5	35
Endrin	16.77	11.93	71	65-135	10	35
4,4'-DDT	16.77	12.77	76	65-135	0	35

Surrogate	%REC	Limits
TCMX	67	65-135
Decachlorobiphenyl	62 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234443043001 Name: Type: (normal) Date: 02-NOV-2004 23:49 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307_020	234443043020	pest_1	02-NOV-2004 23:49	04WS1628
2	307_021	234443043021	pest_2	03-NOV-2004 00:19	04WS1629
3	307_022	234443043022	pest_3	03-NOV-2004 00:50	04WS1630
4	307_023	234443043023	pest_4	03-NOV-2004 01:21	04WS1632
5	307_024	234443043024	pest_5	03-NOV-2004 01:52	04WS1633
6	307_025	234443043025	pest_6	03-NOV-2004 02:22	04WS1634
7	307_026	234443043026	pest_7	03-NOV-2004 02:54	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	5472.0	6121.9	6798.1	8743.3	8385.9	9495.2	10837	AVRG	R		1.253E-4		pg	7979.0	24	0.995	20	rsd ***
gamma-BHC	A	5904.6	6400.4	6971.8	8599.4	8204.1	8902.3	9921.1	AVRG	R		1.275E-4		pg	7843.4	19	0.995	20	
beta-BHC	A	5709.2	4928.9	4599.5	4881.3	4602.4	4631.6	4940.3	AVRG	R		2.041E-4		pg	4899.0	8	0.995	20	
delta-BHC	A	8480.9	7109.5	7081.7	8475.4	8203.0	8871.9	9831.2	AVRG	R		1.206E-4		pg	8293.4	12	0.995	20	
Heptachlor	A	7497.2	7329.5	7205.5	7898.0	7375.7	7327.1	7782.7	AVRG	R		1.335E-4		pg	7487.9	3	0.995	20	
Aldrin	A	6306.9	6337.8	6508.7	7594.2	7282.1	7727.9	8349.8	AVRG	R		1.397E-4		pg	7158.2	11	0.995	20	
Heptachlor epoxide	A	7985.5	7695.2	7468.5	7915.7	7528.4	7461.8	7591.1	AVRG	R		1.305E-4		pg	7663.7	3	0.995	20	
gamma-Chlordane	A	7959.5	7754.5	7639.3	8255.3	7930.6	8117.8	8490.4	AVRG	R		1.247E-4		pg	8021.1	4	0.995	20	
alpha-Chlordane	A	7980.7	7809.0	7722.9	8303.4	7933.7	8035.1	8282.6	AVRG	R		1.248E-4		pg	8009.6	3	0.995	20	
4,4'-DDE	A	6113.1	6553.1	7040.0	7767.1	7534.4	7575.6	7599.5	AVRG	R		1.395E-4		pg	7169.0	9	0.995	20	
Endosulfan I	A	7423.1	7045.6	6910.9	7454.8	7121.2	7203.8	7357.2	AVRG	R		1.386E-4		pg	7216.7	3	0.995	20	
Dieldrin	A	6940.4	7091.5	7268.9	7750.0	7438.5	7338.5	7269.5	AVRG	R		1.370E-4		pg	7299.6	4	0.995	20	
Endrin	A	6343.6	6421.6	6504.0	6815.8	6545.7	6411.9	6330.5	AVRG	R		1.543E-4		pg	6481.9	3	0.995	20	
4,4'-DDD	A	4868.7	5272.0	5521.1	6084.1	5982.9	6089.7	6023.1	AVRG	R		1.757E-4		pg	5691.7	8	0.995	20	
Endosulfan II	A	7502.0	7273.4	7117.7	7268.2	6999.0	6791.0	6600.5	AVRG	R		1.413E-4		pg	7078.8	4	0.995	20	
4,4'-DDT	A	4431.6	4646.0	5128.6	5714.2	5689.3	5734.9	5874.0	AVRG	R		1.881E-4		pg	5316.9	11	0.995	20	
Methoxychlor	A	3316.3	3091.4	2900.1	2730.9	2629.1	2436.5	2345.4	AVRG	R		3.599E-4		pg	2778.5	13	0.995	20	
Endosulfan sulfate	A	8139.2	7153.9	6711.1	6641.3	6433.2	6208.7	6047.0	AVRG	R		1.479E-4		pg	6762.1	10	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234443043001 Name: Type: (normal) Date: 02-NOV-2004 23:49 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	8034.1	7735.6	7677.8	7725.1	7550.3	7266.6	6987.1	AVRG	R		1.321E-4		pg	7568.1	5	0.995	20	
TCMX	A	6824.1	7290.7	7230.9	7644.8	7159.8	7109.0	7365.5	AVRG	R		1.383E-4		pg	7232.1	3	0.995	20	
Decachlorobiphenyl	A	10343	9035.1	8378.4	7754.7	7505.3	6536.9		AVRG	R		1.211E-4		pg	8258.9	16	0.995	20	
alpha-BHC	B	39160	39989	39131	41392	38574	38485		AVRG	R		2.535E-5		pg	39455	3	0.995	20	
gamma-BHC	B	38349	37389	35926	37357	34792	34286	34376	AVRG	R		2.773E-5		pg	36068	5	0.995	20	
beta-BHC	B	30108	23506	20199	19191	17742	16615	16899	AVRG	R		4.852E-5		pg	20609	23	0.995	20	rsd ***
delta-BHC	B	57237	43551	38354	38383	36069	34937	33755	AVRG	R		2.480E-5		pg	40327	20	0.995	20	
Heptachlor	B	29288	26536	24476	24993	23231	21939	22798	AVRG	R		4.040E-5		pg	24752	10	0.995	20	
Aldrin	B	37398	35374	33350	34253	32081	30844	30808	AVRG	R		2.990E-5		pg	33444	7	0.995	20	
Heptachlor epoxide	B	38248	34172	31075	30390	28418	26582	26088	AVRG	R		3.256E-5		pg	30710	14	0.995	20	
gamma-Chlordane	B	41102	36601	33624	33310	31590	30514	30293	AVRG	R		2.953E-5		pg	33862	11	0.995	20	
alpha-Chlordane	B	40166	36108	33155	32414	30775	29489	29383	AVRG	R		3.024E-5		pg	33070	12	0.995	20	
4,4'-DDE	B	32371	31191	29981	29849	28583	27492		AVRG	R		3.343E-5		pg	29911	6	0.995	20	
Endosulfan I	B	37051	32746	30016	29072	27388	25649	24788	AVRG	R		3.386E-5		pg	29530	14	0.995	20	
Dieldrin	B	33918	31715	29726	29043	27498	25900		AVRG	R		3.375E-5		pg	29633	10	0.995	20	
Endrin	B	29624	27019	25120	24323	23132	21827		AVRG	R		3.972E-5		pg	25174	11	0.995	20	
4,4'-DDD	B	25353	23884	22455	22172	21557	21001		AVRG	R		4.398E-5		pg	22737	7	0.995	20	
Endosulfan II	B	34609	29941	27167	25581	24383	22757		AVRG	R		3.649E-5		pg	27406	16	0.995	20	
4,4'-DDT	B	18001	17233	17495	17908	17627	17323	16086	AVRG	R		5.753E-5		pg	17382	4	0.995	20	
Methoxychlor	B	9153.5	7994.1	7404.8	7150.0	6998.1	6157.4		AVRG	R		1.338E-4		pg	7476.3	14	0.995	20	
Endosulfan sulfate	B	35100	28294	24902	23255	22248	20881		AVRG	R		3.879E-5		pg	25780	20	0.995	20	
Endrin ketone	B	32490	28351	26096	24849	24118	22842		AVRG	R		3.780E-5		pg	26458	13	0.995	20	
TCMX	B	34048	31725	28689	27801	25730	24379		AVRG	R		3.481E-5		pg	28729	13	0.995	20	
Decachlorobiphenyl	B	28981	24029	21958	20271	19783	17632		AVRG	R		4.523E-5		pg	22109	18	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	8	20	
EPA 8081A	B	22	12	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Calname :
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :

ICV 234443043035 (307_035) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
alpha-BHC	A	234443043035	03-NOV-2004	25.000	24.414	pg	-2	15	
gamma-BHC	A	234443043035	03-NOV-2004	25.000	24.257	pg	-3	15	
beta-BHC	A	234443043035	03-NOV-2004	25.000	21.776	pg	-13	15	
delta-BHC	A	234443043035	03-NOV-2004	25.000	23.895	pg	-4	15	
Heptachlor	A	234443043035	03-NOV-2004	25.000	23.037	pg	-8	15	
Aldrin	A	234443043035	03-NOV-2004	25.000	24.745	pg	-1	15	
Heptachlor epoxide	A	234443043035	03-NOV-2004	25.000	23.704	pg	-5	15	
gamma-Chlordane	A	234443043035	03-NOV-2004	25.000	24.172	pg	-3	15	
alpha-Chlordane	A	234443043035	03-NOV-2004	25.000	25.143	pg	1	15	
4,4'-DDE	A	234443043035	03-NOV-2004	25.000	25.244	pg	1	15	
Endosulfan I	A	234443043035	03-NOV-2004	25.000	24.863	pg	-1	15	
Dieldrin	A	234443043035	03-NOV-2004	25.000	24.948	pg	0	15	
Endrin	A	234443043035	03-NOV-2004	25.000	25.384	pg	2	15	
4,4'-DDD	A	234443043035	03-NOV-2004	25.000	25.681	pg	3	15	
Endosulfan II	A	234443043035	03-NOV-2004	25.000	25.530	pg	2	15	
4,4'-DDT	A	234443043035	03-NOV-2004	25.000	25.827	pg	3	15	
Methoxychlor	A	234443043035	03-NOV-2004	25.000	28.695	pg	15	15	
Endosulfan sulfate	A	234443043035	03-NOV-2004	25.000	25.523	pg	2	15	
Endrin ketone	A	234443043035	03-NOV-2004	25.000	25.738	pg	3	15	
alpha-BHC	B	234443043035	03-NOV-2004	25.000	23.455	pg	-6	15	
gamma-BHC	B	234443043035	03-NOV-2004	25.000	22.965	pg	-8	15	
beta-BHC	B	234443043035	03-NOV-2004	25.000	20.732	pg	-17	15	v- ***
delta-BHC	B	234443043035	03-NOV-2004	25.000	21.974	pg	-12	15	
Heptachlor	B	234443043035	03-NOV-2004	25.000	21.984	pg	-12	15	
Aldrin	B	234443043035	03-NOV-2004	25.000	23.775	pg	-5	15	
Heptachlor epoxide	B	234443043035	03-NOV-2004	25.000	22.943	pg	-8	15	
gamma-Chlordane	B	234443043035	03-NOV-2004	25.000	23.168	pg	-7	15	
alpha-Chlordane	B	234443043035	03-NOV-2004	25.000	23.829	pg	-5	15	
4,4'-DDE	B	234443043035	03-NOV-2004	25.000	25.648	pg	3	15	
Endosulfan I	B	234443043035	03-NOV-2004	25.000	24.158	pg	-3	15	
Dieldrin	B	234443043035	03-NOV-2004	25.000	24.997	pg	0	15	
Endrin	B	234443043035	03-NOV-2004	25.000	24.864	pg	-1	15	
4,4'-DDD	B	234443043035	03-NOV-2004	25.000	25.211	pg	1	15	
Endosulfan II	B	234443043035	03-NOV-2004	25.000	24.961	pg	0	15	
4,4'-DDT	B	234443043035	03-NOV-2004	25.000	26.425	pg	6	15	
Methoxychlor	B	234443043035	03-NOV-2004	25.000	28.891	pg	16	15	v+ ***
Endosulfan sulfate	B	234443043035	03-NOV-2004	25.000	24.715	pg	-1	15	
Endrin ketone	B	234443043035	03-NOV-2004	25.000	24.746	pg	-1	15	

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	5	15	
EPA 8081A	B	22	6	15	

+=high bias -=low bias v=ICV

PERFORMANCE EVALUATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234473042003 Run Name: Injected: 23-NOV-2004 12:02
Filename: 328_003 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	327217.99
Endrin aldehyde	A	5145.48
Endrin ketone	A	7548.27

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	475288.09
4,4'-DDE	A	1355.68
4,4'-DDD	A	13642.29

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1131734.64
Endrin aldehyde	B	6548.54
Endrin ketone	B	29438.14

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1394642.29
4,4'-DDE	B	15981
4,4'-DDD	B	96783.66

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234473042019 Run Name: Injected: 23-NOV-2004 22:52
Filename: 328_019 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	376063.13
Endrin aldehyde	A	898.69
Endrin ketone	A	6436.55

Endrin Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	576768.59
4,4'-DDE	A	1440.35
4,4'-DDD	A	21651.56

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1341918.88
Endrin aldehyde	B	12544.49
Endrin ketone	B	30056.37

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1779734.17
4,4'-DDE	B	12152.93
4,4'-DDD	B	122050.71

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234473042035 Run Name: Injected: 24-NOV-2004 07:00
Filename: 328_035 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	350062.08
Endrin aldehyde	A	672.63
Endrin ketone	A	6752.49

Endrin Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	558473.73
4,4'-DDE	A	1371.8
4,4'-DDD	A	22573.75

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	1264755.89
Endrin aldehyde	B	13282.59
Endrin ketone	B	31811.86

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1738291.31
4,4'-DDE	B	10300.76
4,4'-DDD	B	126743.31

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234473042006 Filename : 328_006 Injected : 23-NOV-2004 14:07
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :
Standards: 04WS2052

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	7979.0	9426.0	20.00000	23.62705	pg	18	15	c+ rsd ***
gamma-BHC	A	7843.4	8953.5	20.00000	22.83073	pg	14	15	
beta-BHC	A	4899.0	4927.1	20.00000	20.11452	pg	1	15	
delta-BHC	A	8293.4	8734.8	20.00000	21.06459	pg	5	15	
Heptachlor	A	7487.9	7937.0	20.00000	21.19947	pg	6	15	
Aldrin	A	7158.2	7896.9	20.00000	22.06387	pg	10	15	
Heptachlor epoxide	A	7663.7	8011.7	20.00000	20.90808	pg	5	15	
gamma-Chlordane	A	8021.1	8514.6	20.00000	21.23071	pg	6	15	
alpha-Chlordane	A	8009.6	8561.2	20.00000	21.37731	pg	7	15	
4,4'-DDE	A	7169.0	8019.4	40.00000	44.74487	pg	12	15	
Endosulfan I	A	7216.7	7496.7	20.00000	20.77599	pg	4	15	
Dieldrin	A	7299.6	7810.4	40.00000	42.79903	pg	7	15	
Endrin	A	6481.9	6885.7	40.00000	42.49236	pg	6	15	
4,4'-DDD	A	5691.7	5816.8	40.00000	40.87927	pg	2	15	
Endosulfan II	A	7078.8	7391.9	40.00000	41.76895	pg	4	15	
4,4'-DDT	A	5316.9	5559.5	40.00000	41.82488	pg	5	15	
Methoxychlor	A	2778.5	2452.0	200.0000	176.4972	pg	-12	15	
Endosulfan sulfate	A	6762.1	6797.2	40.00000	40.20803	pg	1	15	
Endrin ketone	A	7568.1	7673.9	40.00000	40.55950	pg	1	15	
TCMX	A	7232.1	8294.2	40.00000	45.87453	pg	15	15	
Decachlorobiphenyl	A	8258.9	7636.2	40.00000	36.98448	pg	-8	15	
alpha-BHC	B	39455	44068	20.00000	22.33841	pg	12	15	
gamma-BHC	B	36068	37827	20.00000	20.97515	pg	5	15	
beta-BHC	B	20609	19299	20.00000	18.72853	pg	-6	15	rsd ***
delta-BHC	B	40327	38689	20.00000	19.18785	pg	-4	15	
Heptachlor	B	24752	24612	20.00000	19.88731	pg	-1	15	
Aldrin	B	33444	35248	20.00000	21.07888	pg	5	15	
Heptachlor epoxide	B	30710	30667	20.00000	19.97186	pg	0	15	
gamma-Chlordane	B	33862	34843	20.00000	20.57930	pg	3	15	
alpha-Chlordane	B	33070	34380	20.00000	20.79259	pg	4	15	
4,4'-DDE	B	29911	31525	40.00000	42.15846	pg	5	15	
Endosulfan I	B	29530	30251	20.00000	20.48838	pg	2	15	
Dieldrin	B	29633	30123	40.00000	40.66161	pg	2	15	
Endrin	B	25174	24657	40.00000	39.17892	pg	-2	15	
4,4'-DDD	B	22737	21765	40.00000	38.29001	pg	-4	15	
Endosulfan II	B	27406	26047	40.00000	38.01608	pg	-5	15	
4,4'-DDT	B	17382	17488	40.00000	40.24523	pg	1	15	
Methoxychlor	B	7476.3	6684.4	200.0000	178.8148	pg	-11	15	
Endosulfan sulfate	B	25780	23695	40.00000	36.76416	pg	-8	15	
Endrin ketone	B	26458	24172	40.00000	36.54464	pg	-9	15	
TCMX	B	28729	31523	40.00000	43.89068	pg	10	15	
Decachlorobiphenyl	B	22109	20497	40.00000	37.08436	pg	-7	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				5	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_3 IDF : 1.0
Seqnum : 234473042020 Filename : 328_020 Injected : 23-NOV-2004 23:22
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	7979.0	7596.1	10.00000	9.520049	pg	-5	15	rsd ***
gamma-BHC	A	7843.4	7659.3	10.00000	9.765303	pg	-2	15	
beta-BHC	A	4899.0	4707.2	10.00000	9.608431	pg	-4	15	
delta-BHC	A	8293.4	7062.2	10.00000	8.515471	pg	-15	15	
Heptachlor	A	7487.9	7616.4	10.00000	10.17152	pg	2	15	
Aldrin	A	7158.2	6911.6	10.00000	9.655546	pg	-3	15	
Heptachlor epoxide	A	7663.7	7818.2	10.00000	10.20153	pg	2	15	
gamma-Chlordane	A	8021.1	7826.5	10.00000	9.757432	pg	-2	15	
alpha-Chlordane	A	8009.6	7938.5	10.00000	9.911264	pg	-1	15	
4,4'-DDE	A	7169.0	7183.2	20.00000	20.03967	pg	0	15	
Endosulfan I	A	7216.7	7095.5	10.00000	9.832098	pg	-2	15	
Dieldrin	A	7299.6	7466.7	20.00000	20.45776	pg	2	15	
Endrin	A	6481.9	6621.1	20.00000	20.42977	pg	2	15	
4,4'-DDD	A	5691.7	5499.2	20.00000	19.32381	pg	-3	15	
Endosulfan II	A	7078.8	7256.4	20.00000	20.50166	pg	3	15	
4,4'-DDT	A	5316.9	4894.1	20.00000	18.40937	pg	-8	15	
Methoxychlor	A	2778.5	2654.5	100.0000	95.53571	pg	-4	15	
Endosulfan sulfate	A	6762.1	6750.2	20.00000	19.96496	pg	0	15	
Endrin ketone	A	7568.1	7743.1	20.00000	20.46257	pg	2	15	
TCMX	A	7232.1	7888.9	20.00000	21.81629	pg	9	15	
Decachlorobiphenyl	A	8258.9	8630.0	20.00000	20.89875	pg	4	15	
alpha-BHC	B	39455	41143	10.00000	10.42787	pg	4	15	
gamma-BHC	B	36068	37796	10.00000	10.47911	pg	5	15	
beta-BHC	B	20609	20429	10.00000	9.912831	pg	-1	15	rsd ***
delta-BHC	B	40327	37467	10.00000	9.290771	pg	-7	15	
Heptachlor	B	24752	26335	10.00000	10.63964	pg	6	15	
Aldrin	B	33444	34453	10.00000	10.30159	pg	3	15	
Heptachlor epoxide	B	30710	32031	10.00000	10.43001	pg	4	15	
gamma-Chlordane	B	33862	34846	10.00000	10.29058	pg	3	15	
alpha-Chlordane	B	33070	33749	10.00000	10.20522	pg	2	15	
4,4'-DDE	B	29911	30185	20.00000	20.18306	pg	1	15	
Endosulfan I	B	29530	30434	10.00000	10.30605	pg	3	15	
Dieldrin	B	29633	29951	20.00000	20.21470	pg	1	15	
Endrin	B	25174	26277	20.00000	20.87635	pg	4	15	
4,4'-DDD	B	22737	23118	20.00000	20.33487	pg	2	15	
Endosulfan II	B	27406	27015	20.00000	19.71482	pg	-1	15	
4,4'-DDT	B	17382	17080	20.00000	19.65236	pg	-2	15	
Methoxychlor	B	7476.3	7175.5	100.0000	95.97689	pg	-4	15	
Endosulfan sulfate	B	25780	24658	20.00000	19.12954	pg	-4	15	
Endrin ketone	B	26458	26112	20.00000	19.73843	pg	-1	15	
TCMX	B	28729	29517	20.00000	20.54903	pg	3	15	
Decachlorobiphenyl	B	22109	22353	20.00000	20.22088	pg	1	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				3	15	

rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_4 IDF : 1.0
Seqnum : 234473042036 Filename : 328_036 Injected : 24-NOV-2004 07:30
Calnum : 234443043001 Caldate : 02-NOV-2004 Caltype :
Standards: 04WS2052

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	7979.0	8582.4	20.00000	21.51238	pg	8	15	rsd ***
gamma-BHC	A	7843.4	8275.1	20.00000	21.10084	pg	6	15	
beta-BHC	A	4899.0	4560.1	20.00000	18.61625	pg	-7	15	
delta-BHC	A	8293.4	7837.1	20.00000	18.89976	pg	-6	15	
Heptachlor	A	7487.9	7463.1	20.00000	19.93371	pg	0	15	
Aldrin	A	7158.2	7136.6	20.00000	19.93954	pg	0	15	
Heptachlor epoxide	A	7663.7	7530.9	20.00000	19.65332	pg	-2	15	
gamma-Chlordane	A	8021.1	7728.6	20.00000	19.27068	pg	-4	15	
alpha-Chlordane	A	8009.6	7753.1	20.00000	19.35954	pg	-3	15	
4,4'-DDE	A	7169.0	7252.9	40.00000	40.46853	pg	1	15	
Endosulfan I	A	7216.7	6997.6	20.00000	19.39292	pg	-3	15	
Dieldrin	A	7299.6	7330.9	40.00000	40.17147	pg	0	15	
Endrin	A	6481.9	6464.2	40.00000	39.89128	pg	0	15	
4,4'-DDD	A	5691.7	5682.7	40.00000	39.93712	pg	0	15	
Endosulfan II	A	7078.8	6941.5	40.00000	39.22391	pg	-2	15	
4,4'-DDT	A	5316.9	5206.1	40.00000	39.16643	pg	-2	15	
Methoxychlor	A	2778.5	2411.9	200.0000	173.6128	pg	-13	15	
Endosulfan sulfate	A	6762.1	6350.6	40.00000	37.56602	pg	-6	15	
Endrin ketone	A	7568.1	7444.7	40.00000	39.34786	pg	-2	15	
TCMX	A	7232.1	7511.8	40.00000	41.54695	pg	4	15	
Decachlorobiphenyl	A	8258.9	7345.2	40.00000	35.57471	pg	-11	15	
alpha-BHC	B	39455	39393	20.00000	19.96837	pg	0	15	
gamma-BHC	B	36068	35770	20.00000	19.83483	pg	-1	15	
beta-BHC	B	20609	18067	20.00000	17.53332	pg	-12	15	rsd ***
delta-BHC	B	40327	35623	20.00000	17.66733	pg	-12	15	
Heptachlor	B	24752	25205	20.00000	20.36669	pg	2	15	
Aldrin	B	33444	31906	20.00000	19.08026	pg	-5	15	
Heptachlor epoxide	B	30710	28606	20.00000	18.62962	pg	-7	15	
gamma-Chlordane	B	33862	31848	20.00000	18.81028	pg	-6	15	
alpha-Chlordane	B	33070	30666	20.00000	18.54592	pg	-7	15	
4,4'-DDE	B	29911	28063	40.00000	37.52830	pg	-6	15	
Endosulfan I	B	29530	27324	20.00000	18.50584	pg	-7	15	
Dieldrin	B	29633	27326	40.00000	36.88501	pg	-8	15	
Endrin	B	25174	24059	40.00000	38.22799	pg	-4	15	
4,4'-DDD	B	22737	21845	40.00000	38.42999	pg	-4	15	
Endosulfan II	B	27406	24200	40.00000	35.32025	pg	-12	15	
4,4'-DDT	B	17382	17230	40.00000	39.65088	pg	-1	15	
Methoxychlor	B	7476.3	6904.3	200.0000	184.6975	pg	-8	15	
Endosulfan sulfate	B	25780	22079	40.00000	34.25792	pg	-14	15	
Endrin ketone	B	26458	24044	40.00000	36.35149	pg	-9	15	
TCMX	B	28729	26500	40.00000	36.89644	pg	-8	15	
Decachlorobiphenyl	B	22109	19349	40.00000	35.00598	pg	-12	15	
Average EPA 8081A	A		(count=22)				4	15	
Average EPA 8081A	B		(count=22)				7	15	

rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234443043 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 02-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
006	307_006	PEM				02-NOV-2004 16:03	1.0						1	
007	307_007	CCV	pest_4			02-NOV-2004 16:34	1.0						2	
008	307_008	X	ccv			02-NOV-2004 17:05	1.0						2	
009	307_009	X	ccv			02-NOV-2004 17:36	1.0						2	
010	307_010	X	primer			02-NOV-2004 18:42	1.0							
017	307_017	PEM				02-NOV-2004 22:17	1.0			1			1	
018	307_018	X	hex			02-NOV-2004 22:48	1.0							
019	307_019	X	hex			02-NOV-2004 23:18	1.0							
020	307_020	ICAL	pest_1			02-NOV-2004 23:49	1.0						3	
021	307_021	ICAL	pest_2			03-NOV-2004 00:19	1.0						4	
022	307_022	ICAL	pest_3			03-NOV-2004 00:50	1.0						5	
023	307_023	ICAL	pest_4			03-NOV-2004 01:21	1.0						2	
024	307_024	ICAL	pest_5			03-NOV-2004 01:52	1.0						6	
025	307_025	ICAL	pest_6			03-NOV-2004 02:22	1.0						7	
026	307_026	ICAL	pest_7			03-NOV-2004 02:54	1.0						8	
028	307_028	X	icv			03-NOV-2004 03:55	1.0						9	
029	307_029	X				03-NOV-2004 04:25	1.0						9	
034	307_034	X				03-NOV-2004 14:33	1.0						10	
035	307_035	ICV	icv			03-NOV-2004 15:12	1.0	2		1			10	

Stds used: 1=04WS1614 2=04WS1632 3=04WS1628 4=04WS1629 5=04WS1630 6=04WS1633 7=04WS1634 8=04WS1635 9=04WS1584 10=04WS2099

SEQUENCE SUMMARY FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234473042 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 23-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
003	328_003	PEM				23-NOV-2004 12:02	1.0	1.0			1	1	
004	328_004	X	pest_4			23-NOV-2004 12:33	1.0					2	
005	328_005	X	ccv			23-NOV-2004 13:03	1.0	1.0			1	2	
006	328_006	CCV	ccv			23-NOV-2004 14:07	1.0	1.0	2		1	2	
008	328_008	BLANK	QC273432	96774	Soil	23-NOV-2004 17:16	1.0	0.6609			1		
009	328_009	LCS	QC273433	96774	Soil	23-NOV-2004 17:46	1.0	0.6605	2		1		
010	328_010	SAMPLE	176210-001	96774	Soil	23-NOV-2004 18:17	1.0	0.6711		1	1		
011	328_011	SAMPLE	176210-002	96774	Soil	23-NOV-2004 18:48	1.0	0.6693		1	1		
012	328_012	SAMPLE	176210-003	96774	Soil	23-NOV-2004 19:18	1.0	0.6583		1	1		
013	328_013	SAMPLE	176210-004	96774	Soil	23-NOV-2004 19:49	1.0	0.6676		2	1		
014	328_014	SAMPLE	176210-005	96774	Soil	23-NOV-2004 20:19	1.0	0.6588			1		
015	328_015	SAMPLE	176210-006	96774	Soil	23-NOV-2004 20:50	1.0	0.6636			1		
016	328_016	SAMPLE	176210-007	96774	Soil	23-NOV-2004 21:20	1.0	0.6671			1		
017	328_017	SAMPLE	176210-008	96774	Soil	23-NOV-2004 21:51	1.0	0.6618			1		
019	328_019	PEM				23-NOV-2004 22:52	1.0	1.0			1	1	
020	328_020	CCV	pest_3			23-NOV-2004 23:22	1.0	1.0	2		1	3	
021	328_021	X	ccv			23-NOV-2004 23:53	1.0					3	
022	328_022	X	ccv			24-NOV-2004 00:23	1.0					4	
023	328_023	X	pem			24-NOV-2004 00:54	1.0					1	
025	328_025	SAMPLE	176210-009	96774	Soil	24-NOV-2004 01:55	1.0	0.6711			1		
026	328_026	SAMPLE	176210-010	96774	Soil	24-NOV-2004 02:25	1.0	0.6636			1		
027	328_027	SAMPLE	176210-011	96774	Soil	24-NOV-2004 02:56	1.0	0.6748		1	1		
028	328_028	SAMPLE	176193-001	96774	Soil	24-NOV-2004 03:26	1.0	0.6575	1		1		
029	328_029	MSS	176193-002	96774	Soil	24-NOV-2004 03:57	1.0	0.6702			1		
030	328_030	SAMPLE	176193-003	96774	Soil	24-NOV-2004 04:27	1.0	0.6605			1		
031	328_031	SAMPLE	176193-004	96774	Soil	24-NOV-2004 04:58	1.0	0.6707			1		
032	328_032	MS	QC273434	96774	Soil	24-NOV-2004 05:28	1.0	0.6725	2	1	1		
033	328_033	MSD	QC273435	96774	Soil	24-NOV-2004 05:59	1.0	0.6707	2	5	1		
035	328_035	PEM				24-NOV-2004 07:00	1.0	1.0			1	1	
036	328_036	CCV	pest_4			24-NOV-2004 07:30	1.0	1.0	2		1	2	
037	328_037	X	ccv			24-NOV-2004 08:01	1.0					2	

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS1633

SEQUENCE SUMMARY FOR 176210 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234473042 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 23-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	328_040	SAMPLE	176194-001	96774	Soil	24-NOV-2004 09:32	1.0	0.6623	1		1		
041	328_041	SAMPLE	176195-001	96774	Soil	24-NOV-2004 10:02	1.0	0.6592	1		1		
043	328_043	PEM				24-NOV-2004 11:03	1.0	1.0			1	1	
044	328_044	X	pest_3			24-NOV-2004 11:34	1.0	1.0			1	3	
045	328_045	CCV	ccv			24-NOV-2004 12:05	1.0	1.0	3		1	3	
049	328_049	BLANK	QC273650	96829	Soil	24-NOV-2004 17:13	1.0	0.6702	3		1		
050	328_050	LCS	QC273651	96829	Soil	24-NOV-2004 17:43	1.0	0.6698	4		1		
051	328_051	SAMPLE	176185-001	96829	Soil	24-NOV-2004 18:14	10.0	0.6716	3		1		
052	328_052	MSS	176248-001	96829	Soil	24-NOV-2004 18:45	2.0	0.6645	3		1		
053	328_053	SAMPLE	176248-002	96829	Soil	24-NOV-2004 19:15	1.0	0.6588	3		1		
054	328_054	SAMPLE	176248-004	96829	Soil	24-NOV-2004 19:46	1.0	0.6579	3		1		
055	328_055	SAMPLE	176248-005	96829	Soil	24-NOV-2004 20:16	1.0	0.6667	3		1		
057	328_057	MS	QC273771	96829	Soil	24-NOV-2004 21:17	4.0	0.6757					
060	328_060	X	pem			24-NOV-2004 22:49	1.0	1.0			1	1	
061	328_061	X	pest_4			24-NOV-2004 23:19	1.0					2	
062	328_062	CCV				24-NOV-2004 23:50	1.0	1.0	3		1	2	
063	328_063	PEM				25-NOV-2004 00:20	1.0	1.0			1	1	
076	328_076	X	PEM			25-NOV-2004 06:57	1.0	1.0			1	1	
077	328_077	X	pest_3			25-NOV-2004 07:27	1.0					3	
078	328_078	X	ccv			25-NOV-2004 07:58	1.0					3	
079	328_079	CCV	ccv			25-NOV-2004 08:29	1.0	1.0	6		1	4	
080	328_080	PEM	pem			25-NOV-2004 08:59	1.0	1.0			1	1	

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS1633

Reporting Summary for 176210 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-001	alpha-BHC	GC16	B	11/23/04 18:17
176210-001	beta-BHC	GC16	A	11/23/04 18:17
176210-001	gamma-BHC	GC16	A	11/23/04 18:17
176210-001	delta-BHC	GC16	B	11/23/04 18:17
176210-001	Heptachlor	GC16	B	11/23/04 18:17
176210-001	Aldrin	GC16	B	11/23/04 18:17
176210-001	Heptachlor epoxide	GC16	B	11/23/04 18:17
176210-001	Endosulfan I	GC16	B	11/23/04 18:17
176210-001	Dieldrin	GC16	B	11/23/04 18:17
176210-001	4,4'-DDE	GC16	B	11/23/04 18:17
176210-001	Endrin	GC16	B	11/23/04 18:17
176210-001	Endosulfan II	GC16	B	11/23/04 18:17
176210-001	Endosulfan sulfate	GC16	B	11/23/04 18:17
176210-001	4,4'-DDD	GC16	B	11/23/04 18:17
176210-001	Endrin ketone	GC16	B	11/23/04 18:17
176210-001	4,4'-DDT	GC16	B	11/23/04 18:17
176210-001	Chlordane (Technical)	GC16	B	11/23/04 18:17
176210-001	alpha-Chlordane	GC16	B	11/23/04 18:17
176210-001	gamma-Chlordane	GC16	B	11/23/04 18:17
176210-001	Methoxychlor	GC16	B	11/23/04 18:17
176210-001	Toxaphene	GC16	B	11/23/04 18:17
176210-001	TCMX	GC16	B	11/23/04 18:17
176210-001	Decachlorobiphenyl	GC16	B	11/23/04 18:17
176210-002	alpha-BHC	GC16	B	11/23/04 18:48
176210-002	beta-BHC	GC16	A	11/23/04 18:48
176210-002	gamma-BHC	GC16	A	11/23/04 18:48
176210-002	delta-BHC	GC16	B	11/23/04 18:48
176210-002	Heptachlor	GC16	B	11/23/04 18:48
176210-002	Aldrin	GC16	B	11/23/04 18:48
176210-002	Heptachlor epoxide	GC16	B	11/23/04 18:48
176210-002	Endosulfan I	GC16	B	11/23/04 18:48
176210-002	Dieldrin	GC16	B	11/23/04 18:48
176210-002	4,4'-DDE	GC16	B	11/23/04 18:48
176210-002	Endrin	GC16	B	11/23/04 18:48
176210-002	Endosulfan II	GC16	B	11/23/04 18:48
176210-002	Endosulfan sulfate	GC16	B	11/23/04 18:48
176210-002	4,4'-DDD	GC16	B	11/23/04 18:48
176210-002	Endrin ketone	GC16	B	11/23/04 18:48
176210-002	4,4'-DDT	GC16	B	11/23/04 18:48
176210-002	Chlordane (Technical)	GC16	B	11/23/04 18:48
176210-002	alpha-Chlordane	GC16	B	11/23/04 18:48
176210-002	gamma-Chlordane	GC16	B	11/23/04 18:48
176210-002	Methoxychlor	GC16	B	11/23/04 18:48
176210-002	Toxaphene	GC16	B	11/23/04 18:48
176210-002	TCMX	GC16	B	11/23/04 18:48
176210-002	Decachlorobiphenyl	GC16	B	11/23/04 18:48
176210-003	alpha-BHC	GC16	B	11/23/04 19:18
176210-003	beta-BHC	GC16	A	11/23/04 19:18
176210-003	gamma-BHC	GC16	B	11/23/04 19:18
176210-003	delta-BHC	GC16	A	11/23/04 19:18
176210-003	Heptachlor	GC16	A	11/23/04 19:18
176210-003	Aldrin	GC16	A	11/23/04 19:18

Reporting Summary for 176210 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-003	Heptachlor epoxide	GC16	A	11/23/04 19:18
176210-003	Endosulfan I	GC16	A	11/23/04 19:18
176210-003	Dieldrin	GC16	B	11/23/04 19:18
176210-003	4,4'-DDE	GC16	A	11/23/04 19:18
176210-003	Endrin	GC16	A	11/23/04 19:18
176210-003	Endosulfan II	GC16	A	11/23/04 19:18
176210-003	Endosulfan sulfate	GC16	A	11/23/04 19:18
176210-003	4,4'-DDD	GC16	A	11/23/04 19:18
176210-003	Endrin ketone	GC16	A	11/23/04 19:18
176210-003	4,4'-DDT	GC16	B	11/23/04 19:18
176210-003	Chlordane (Technical)	GC16	A	11/23/04 19:18
176210-003	alpha-Chlordane	GC16	A	11/23/04 19:18
176210-003	gamma-Chlordane	GC16	B	11/23/04 19:18
176210-003	Methoxychlor	GC16	A	11/23/04 19:18
176210-003	Toxaphene	GC16	A	11/23/04 19:18
176210-003	TCMX	GC16	A	11/23/04 19:18
176210-003	Decachlorobiphenyl	GC16	A	11/23/04 19:18
176210-004	alpha-BHC	GC16	B	11/23/04 19:49
176210-004	beta-BHC	GC16	A	11/23/04 19:49
176210-004	gamma-BHC	GC16	B	11/23/04 19:49
176210-004	delta-BHC	GC16	B	11/23/04 19:49
176210-004	Heptachlor	GC16	B	11/23/04 19:49
176210-004	Aldrin	GC16	B	11/23/04 19:49
176210-004	Heptachlor epoxide	GC16	B	11/23/04 19:49
176210-004	Endosulfan I	GC16	B	11/23/04 19:49
176210-004	Dieldrin	GC16	B	11/23/04 19:49
176210-004	4,4'-DDE	GC16	B	11/23/04 19:49
176210-004	Endrin	GC16	B	11/23/04 19:49
176210-004	Endosulfan II	GC16	B	11/23/04 19:49
176210-004	Endosulfan sulfate	GC16	B	11/23/04 19:49
176210-004	4,4'-DDD	GC16	B	11/23/04 19:49
176210-004	Endrin ketone	GC16	B	11/23/04 19:49
176210-004	4,4'-DDT	GC16	B	11/23/04 19:49
176210-004	Chlordane (Technical)	GC16	B	11/23/04 19:49
176210-004	alpha-Chlordane	GC16	B	11/23/04 19:49
176210-004	gamma-Chlordane	GC16	B	11/23/04 19:49
176210-004	Methoxychlor	GC16	B	11/23/04 19:49
176210-004	Toxaphene	GC16	B	11/23/04 19:49
176210-004	TCMX	GC16	B	11/23/04 19:49
176210-004	Decachlorobiphenyl	GC16	B	11/23/04 19:49
176210-005	alpha-BHC	GC16	B	11/23/04 20:19
176210-005	beta-BHC	GC16	A	11/23/04 20:19
176210-005	gamma-BHC	GC16	A	11/23/04 20:19
176210-005	delta-BHC	GC16	B	11/23/04 20:19
176210-005	Heptachlor	GC16	B	11/23/04 20:19
176210-005	Aldrin	GC16	B	11/23/04 20:19
176210-005	Heptachlor epoxide	GC16	B	11/23/04 20:19
176210-005	Endosulfan I	GC16	B	11/23/04 20:19
176210-005	Dieldrin	GC16	B	11/23/04 20:19
176210-005	4,4'-DDE	GC16	B	11/23/04 20:19
176210-005	Endrin	GC16	B	11/23/04 20:19
176210-005	Endosulfan II	GC16	B	11/23/04 20:19

Reporting Summary for 176210 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-005	Endosulfan sulfate	GC16	B	11/23/04 20:19
176210-005	4,4'-DDD	GC16	B	11/23/04 20:19
176210-005	Endrin ketone	GC16	B	11/23/04 20:19
176210-005	4,4'-DDT	GC16	B	11/23/04 20:19
176210-005	Chlordane (Technical)	GC16	B	11/23/04 20:19
176210-005	alpha-Chlordane	GC16	B	11/23/04 20:19
176210-005	gamma-Chlordane	GC16	B	11/23/04 20:19
176210-005	Methoxychlor	GC16	B	11/23/04 20:19
176210-005	Toxaphene	GC16	B	11/23/04 20:19
176210-005	TCMX	GC16	B	11/23/04 20:19
176210-005	Decachlorobiphenyl	GC16	B	11/23/04 20:19
176210-006	alpha-BHC	GC16	B	11/23/04 20:50
176210-006	beta-BHC	GC16	A	11/23/04 20:50
176210-006	gamma-BHC	GC16	B	11/23/04 20:50
176210-006	delta-BHC	GC16	B	11/23/04 20:50
176210-006	Heptachlor	GC16	B	11/23/04 20:50
176210-006	Aldrin	GC16	B	11/23/04 20:50
176210-006	Heptachlor epoxide	GC16	B	11/23/04 20:50
176210-006	Endosulfan I	GC16	B	11/23/04 20:50
176210-006	Dieldrin	GC16	B	11/23/04 20:50
176210-006	4,4'-DDE	GC16	B	11/23/04 20:50
176210-006	Endrin	GC16	B	11/23/04 20:50
176210-006	Endosulfan II	GC16	B	11/23/04 20:50
176210-006	Endosulfan sulfate	GC16	B	11/23/04 20:50
176210-006	4,4'-DDD	GC16	B	11/23/04 20:50
176210-006	Endrin ketone	GC16	B	11/23/04 20:50
176210-006	4,4'-DDT	GC16	B	11/23/04 20:50
176210-006	Chlordane (Technical)	GC16	B	11/23/04 20:50
176210-006	alpha-Chlordane	GC16	B	11/23/04 20:50
176210-006	gamma-Chlordane	GC16	B	11/23/04 20:50
176210-006	Methoxychlor	GC16	B	11/23/04 20:50
176210-006	Toxaphene	GC16	B	11/23/04 20:50
176210-006	TCMX	GC16	B	11/23/04 20:50
176210-006	Decachlorobiphenyl	GC16	B	11/23/04 20:50
176210-007	alpha-BHC	GC16	B	11/23/04 21:20
176210-007	beta-BHC	GC16	A	11/23/04 21:20
176210-007	gamma-BHC	GC16	B	11/23/04 21:20
176210-007	delta-BHC	GC16	B	11/23/04 21:20
176210-007	Heptachlor	GC16	B	11/23/04 21:20
176210-007	Aldrin	GC16	B	11/23/04 21:20
176210-007	Heptachlor epoxide	GC16	B	11/23/04 21:20
176210-007	Endosulfan I	GC16	B	11/23/04 21:20
176210-007	Dieldrin	GC16	B	11/23/04 21:20
176210-007	4,4'-DDE	GC16	B	11/23/04 21:20
176210-007	Endrin	GC16	B	11/23/04 21:20
176210-007	Endosulfan II	GC16	B	11/23/04 21:20
176210-007	Endosulfan sulfate	GC16	B	11/23/04 21:20
176210-007	4,4'-DDD	GC16	B	11/23/04 21:20
176210-007	Endrin ketone	GC16	B	11/23/04 21:20
176210-007	4,4'-DDT	GC16	B	11/23/04 21:20
176210-007	Chlordane (Technical)	GC16	B	11/23/04 21:20
176210-007	alpha-Chlordane	GC16	B	11/23/04 21:20

Reporting Summary for 176210 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-007	gamma-Chlordane	GC16	B	11/23/04 21:20
176210-007	Methoxychlor	GC16	B	11/23/04 21:20
176210-007	Toxaphene	GC16	B	11/23/04 21:20
176210-007	TCMX	GC16	B	11/23/04 21:20
176210-007	Decachlorobiphenyl	GC16	B	11/23/04 21:20
176210-008	alpha-BHC	GC16	B	11/23/04 21:51
176210-008	beta-BHC	GC16	A	11/23/04 21:51
176210-008	gamma-BHC	GC16	B	11/23/04 21:51
176210-008	delta-BHC	GC16	B	11/23/04 21:51
176210-008	Heptachlor	GC16	B	11/23/04 21:51
176210-008	Aldrin	GC16	B	11/23/04 21:51
176210-008	Heptachlor epoxide	GC16	B	11/23/04 21:51
176210-008	Endosulfan I	GC16	B	11/23/04 21:51
176210-008	Dieldrin	GC16	B	11/23/04 21:51
176210-008	4,4'-DDE	GC16	B	11/23/04 21:51
176210-008	Endrin	GC16	B	11/23/04 21:51
176210-008	Endosulfan II	GC16	B	11/23/04 21:51
176210-008	Endosulfan sulfate	GC16	B	11/23/04 21:51
176210-008	4,4'-DDD	GC16	B	11/23/04 21:51
176210-008	Endrin ketone	GC16	B	11/23/04 21:51
176210-008	4,4'-DDT	GC16	B	11/23/04 21:51
176210-008	Chlordane (Technical)	GC16	B	11/23/04 21:51
176210-008	alpha-Chlordane	GC16	B	11/23/04 21:51
176210-008	gamma-Chlordane	GC16	B	11/23/04 21:51
176210-008	Methoxychlor	GC16	B	11/23/04 21:51
176210-008	Toxaphene	GC16	B	11/23/04 21:51
176210-008	TCMX	GC16	B	11/23/04 21:51
176210-008	Decachlorobiphenyl	GC16	B	11/23/04 21:51
176210-009	alpha-BHC	GC16	B	11/24/04 01:55
176210-009	beta-BHC	GC16	A	11/24/04 01:55
176210-009	gamma-BHC	GC16	B	11/24/04 01:55
176210-009	delta-BHC	GC16	B	11/24/04 01:55
176210-009	Heptachlor	GC16	B	11/24/04 01:55
176210-009	Aldrin	GC16	B	11/24/04 01:55
176210-009	Heptachlor epoxide	GC16	B	11/24/04 01:55
176210-009	Endosulfan I	GC16	B	11/24/04 01:55
176210-009	Dieldrin	GC16	B	11/24/04 01:55
176210-009	4,4'-DDE	GC16	B	11/24/04 01:55
176210-009	Endrin	GC16	B	11/24/04 01:55
176210-009	Endosulfan II	GC16	B	11/24/04 01:55
176210-009	Endosulfan sulfate	GC16	B	11/24/04 01:55
176210-009	4,4'-DDD	GC16	B	11/24/04 01:55
176210-009	Endrin ketone	GC16	B	11/24/04 01:55
176210-009	4,4'-DDT	GC16	B	11/24/04 01:55
176210-009	Chlordane (Technical)	GC16	B	11/24/04 01:55
176210-009	alpha-Chlordane	GC16	B	11/24/04 01:55
176210-009	gamma-Chlordane	GC16	B	11/24/04 01:55
176210-009	Methoxychlor	GC16	B	11/24/04 01:55
176210-009	Toxaphene	GC16	B	11/24/04 01:55
176210-009	TCMX	GC16	B	11/24/04 01:55
176210-009	Decachlorobiphenyl	GC16	B	11/24/04 01:55

Reporting Summary for 176210 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-010	alpha-BHC	GC16	B	11/24/04 02:25
176210-010	beta-BHC	GC16	A	11/24/04 02:25
176210-010	gamma-BHC	GC16	B	11/24/04 02:25
176210-010	delta-BHC	GC16	B	11/24/04 02:25
176210-010	Heptachlor	GC16	B	11/24/04 02:25
176210-010	Aldrin	GC16	B	11/24/04 02:25
176210-010	Heptachlor epoxide	GC16	B	11/24/04 02:25
176210-010	Endosulfan I	GC16	B	11/24/04 02:25
176210-010	Dieldrin	GC16	B	11/24/04 02:25
176210-010	4,4'-DDE	GC16	B	11/24/04 02:25
176210-010	Endrin	GC16	B	11/24/04 02:25
176210-010	Endosulfan II	GC16	B	11/24/04 02:25
176210-010	Endosulfan sulfate	GC16	B	11/24/04 02:25
176210-010	4,4'-DDD	GC16	B	11/24/04 02:25
176210-010	Endrin ketone	GC16	B	11/24/04 02:25
176210-010	4,4'-DDT	GC16	B	11/24/04 02:25
176210-010	Chlordane (Technical)	GC16	B	11/24/04 02:25
176210-010	alpha-Chlordane	GC16	B	11/24/04 02:25
176210-010	gamma-Chlordane	GC16	B	11/24/04 02:25
176210-010	Methoxychlor	GC16	B	11/24/04 02:25
176210-010	Toxaphene	GC16	B	11/24/04 02:25
176210-010	TCMX	GC16	B	11/24/04 02:25
176210-010	Decachlorobiphenyl	GC16	B	11/24/04 02:25
176210-011	alpha-BHC	GC16	B	11/24/04 02:56
176210-011	beta-BHC	GC16	A	11/24/04 02:56
176210-011	gamma-BHC	GC16	A	11/24/04 02:56
176210-011	delta-BHC	GC16	B	11/24/04 02:56
176210-011	Heptachlor	GC16	B	11/24/04 02:56
176210-011	Aldrin	GC16	B	11/24/04 02:56
176210-011	Heptachlor epoxide	GC16	B	11/24/04 02:56
176210-011	Endosulfan I	GC16	B	11/24/04 02:56
176210-011	Dieldrin	GC16	B	11/24/04 02:56
176210-011	4,4'-DDE	GC16	B	11/24/04 02:56
176210-011	Endrin	GC16	B	11/24/04 02:56
176210-011	Endosulfan II	GC16	B	11/24/04 02:56
176210-011	Endosulfan sulfate	GC16	B	11/24/04 02:56
176210-011	4,4'-DDD	GC16	B	11/24/04 02:56
176210-011	Endrin ketone	GC16	B	11/24/04 02:56
176210-011	4,4'-DDT	GC16	B	11/24/04 02:56
176210-011	Chlordane (Technical)	GC16	B	11/24/04 02:56
176210-011	alpha-Chlordane	GC16	B	11/24/04 02:56
176210-011	gamma-Chlordane	GC16	B	11/24/04 02:56
176210-011	Methoxychlor	GC16	B	11/24/04 02:56
176210-011	Toxaphene	GC16	B	11/24/04 02:56
176210-011	TCMX	GC16	B	11/24/04 02:56
176210-011	Decachlorobiphenyl	GC16	B	11/24/04 02:56
QC273432	alpha-BHC	GC16	B	11/23/04 17:16
QC273432	beta-BHC	GC16	A	11/23/04 17:16
QC273432	gamma-BHC	GC16	B	11/23/04 17:16
QC273432	delta-BHC	GC16	B	11/23/04 17:16
QC273432	Heptachlor	GC16	B	11/23/04 17:16
QC273432	Aldrin	GC16	B	11/23/04 17:16

Reporting Summary for 176210 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC273432	Heptachlor epoxide	GC16	B	11/23/04 17:16
QC273432	Endosulfan I	GC16	B	11/23/04 17:16
QC273432	Dieldrin	GC16	B	11/23/04 17:16
QC273432	4,4'-DDE	GC16	B	11/23/04 17:16
QC273432	Endrin	GC16	B	11/23/04 17:16
QC273432	Endosulfan II	GC16	B	11/23/04 17:16
QC273432	Endosulfan sulfate	GC16	B	11/23/04 17:16
QC273432	4,4'-DDD	GC16	B	11/23/04 17:16
QC273432	Endrin ketone	GC16	B	11/23/04 17:16
QC273432	4,4'-DDT	GC16	B	11/23/04 17:16
QC273432	Chlordane (Technical)	GC16	B	11/23/04 17:16
QC273432	alpha-Chlordane	GC16	B	11/23/04 17:16
QC273432	gamma-Chlordane	GC16	B	11/23/04 17:16
QC273432	Methoxychlor	GC16	B	11/23/04 17:16
QC273432	Toxaphene	GC16	B	11/23/04 17:16
QC273432	TCMX	GC16	B	11/23/04 17:16
QC273432	Decachlorobiphenyl	GC16	B	11/23/04 17:16
QC273433	gamma-BHC	GC16	B	11/23/04 17:46
QC273433	Heptachlor	GC16	B	11/23/04 17:46
QC273433	Aldrin	GC16	B	11/23/04 17:46
QC273433	Dieldrin	GC16	B	11/23/04 17:46
QC273433	Endrin	GC16	B	11/23/04 17:46
QC273433	4,4'-DDT	GC16	B	11/23/04 17:46
QC273433	TCMX	GC16	B	11/23/04 17:46
QC273433	Decachlorobiphenyl	GC16	B	11/23/04 17:46
QC273434	gamma-BHC	GC16	B	11/24/04 05:28
QC273434	Heptachlor	GC16	B	11/24/04 05:28
QC273434	Aldrin	GC16	B	11/24/04 05:28
QC273434	Dieldrin	GC16	B	11/24/04 05:28
QC273434	Endrin	GC16	B	11/24/04 05:28
QC273434	4,4'-DDT	GC16	B	11/24/04 05:28
QC273434	TCMX	GC16	B	11/24/04 05:28
QC273434	Decachlorobiphenyl	GC16	B	11/24/04 05:28
QC273435	gamma-BHC	GC16	B	11/24/04 05:59
QC273435	Heptachlor	GC16	B	11/24/04 05:59
QC273435	Aldrin	GC16	B	11/24/04 05:59
QC273435	Dieldrin	GC16	B	11/24/04 05:59
QC273435	Endrin	GC16	B	11/24/04 05:59
QC273435	4,4'-DDT	GC16	B	11/24/04 05:59
QC273435	TCMX	GC16	B	11/24/04 05:59
QC273435	Decachlorobiphenyl	GC16	B	11/24/04 05:59

Curtis & Tompkins Laboratories **Sample Preparation Summary** **23-NOV-2004 11:45**

Batch Number : 96774
Date Extracted: 22-NOV-2004
Extracted by : Brook N. Buswell
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS1994A
Spike #2 ID : 04WS1551C
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176193-001			URS Corporation	Soil	15.21	g	10	0.657462	1		.01	0		8081	3620B	
176193-002			URS Corporation	Soil	14.92	g	10	0.670241	1		.01	0		8081	3620B	mss
176193-003			URS Corporation	Soil	15.14	g	10	0.660502	1		.01	0		8081	3620B	
176193-004			URS Corporation	Soil	14.91	g	10	0.670691	1		.01	0		8081	3620B	
176194-001			URS Corporation	Soil	15.1	g	10	0.662252	1		.01	0		8081	3620B	
176195-001			URS Corporation	Soil	15.17	g	10	0.659196	1		.01	0		8081	3620B	
176210-001			Treadwell & Rollo	Soil	14.9	g	10	0.671141	1		.01	0		8081	3620B	
176210-002			Treadwell & Rollo	Soil	14.94	g	10	0.669344	1		.01	0		8081	3620B	
176210-003			Treadwell & Rollo	Soil	15.19	g	10	0.658328	1		.01	0		8081	3620B	
176210-004			Treadwell & Rollo	Soil	14.98	g	10	0.667557	1		.01	0		8081	3620B	
176210-005			Treadwell & Rollo	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
176210-006			Treadwell & Rollo	Soil	15.07	g	10	0.663570	1		.01	0		8081	3620B	
176210-007			Treadwell & Rollo	Soil	14.99	g	10	0.667111	1		.01	0		8081	3620B	
176210-008			Treadwell & Rollo	Soil	15.11	g	10	0.661813	1		.01	0		8081	3620B	
176210-009			Treadwell & Rollo	Soil	14.9	g	10	0.671141	1		.01	0		8081	3620B	
176210-010			Treadwell & Rollo	Soil	15.07	g	10	0.663570	1		.01	0		8081	3620B	
176210-011			Treadwell & Rollo	Soil	14.82	g	10	0.674764	1		.01	0		8081	3620B	
QC273432	MB			Soil	15.13	g	10	0.660939	1		.01	0		8081	3620B	
QC273433	LCS			Soil	15.14	g	10	0.660502	1		.01	.5		8081	3620B	
QC273434	MS	of 176193-002		Soil	14.87	g	10	0.672495	1		.01	.5		8081	3620B	
QC273435	MSD	of 176193-002		Soil	14.91	g	10	0.670691	1		.01	.5		8081	3620B	

Prep Chemist: _____ Reviewed By: _____ Date: 11/23/04

Relinquished By: _____ Received By: _____ Date: 11/23/04

Curtis & Tompkins, Ltd.

8081 SOIL PREP LOG

BK 1965

Page 80

LIMS Batch No: 96774
LIMS Analysis: 8081
Extracted by: BB
Date Extracted: 11/22/04

Extraction Method:
- ☐ EPA 3550b Sonication
- ☑ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☒ EPA 3620b Florisil
- ☐ _____

	Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
	MB dC273432	15.13	10.0	X	*
	LCS 3	15.14			*
	MS 4	14.87			* 176193-002
	MSD 5	14.91			*
5	176193-001	15.21			
	-002	14.92			MSS
	-003	15.14			
	-004	14.91			
	176194-001	15.10			
10	176195-001	15.17			
	176210-001A	14.90			
	-002	14.94			
	-003	15.19			
	-004	14.98			
15	-005	15.18			
	-006	15.07			
	-007	14.99			
	-008	15.11			
	-009	14.90			
20	-010	15.07			
	-011	14.82			
			JDM 11/23/04		

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM4402 8421	BB 11/22/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	DEXE04016	
0.101 mL of surrogate solution was added to all samples	04WS1994 A* 04WS2225C	
0.5 mL of spike solution was added to all spikes	04WS1551C	
1:1 CH_2Cl_2 (lot# EM44244):Acetone(lot# EM44179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	WHATMAN D28	
Soxhlets on at:	NA	
Soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	↓	
Exchanged 2x with Hexane	CL905	JDM 11/23/04
Concentrated: ☒ to volumes as noted above ☒ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil	✓	↓

BB 11/22/04
Extraction Chemist / Date

Continued from page _____
Continued on page _____

JDM 11/23/04
11/23/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: JDM
Cleanup Date: 11/23/04

Benchbook # **BK 1991**
Page 71

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
176193-001	96774	1.0	1.0	
-002				MSS
-003				
-004				
176194-001				
176195-001				
176210-001				
-002				
-003				
-004				
-005				
-006				
-007				
-008				
-009				
-010				
-011				
MB BC273432				
LCS 33				
MS 34				176193-002
MSD 35				

JDM 11/23/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	Restrep 303221-AZ	JDM 11/23/04
Florisil cartridges/ columns rinsed 3x with Hexane	CL905	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	CM222	
Acetone	EM44233	
Concentrated to volumes as noted above	✓	

Jessie Mee 11/23/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

[illegible] 11/23/04
Reviewed by / Date

Continued from Page

Sample ID	Weight	Analysis	Comments
Me193-001	15.21	8081	+ Comp A D
-002	15.06	14.92	LLSS
-003	15.14		
-004	14.91		Me193-002
MS	14.87		
MSD	14.91		Fy4-02 27/21
LCS	15.14		
MB	15.13		

Continued on Page

Read and Understood By

Michelle Cortez 11/23/09

Signed Date

Project SOIL ALIQUOT BK2032

Continued from Page

Sample No	Weight(g)	Analysis	Comments
176195-001	49.99	TEHM	4, COMP A-D
-002	49.99		
176195-001	29.83	8100	
-001	15.17	8081	
-001	15.05	PCB	
-001	30.29	8100	4, COMP A-D
176194-001	49.96	TEHM	
-001	15.10	8081	
-001	15.19	PCB	
-001	50.45	TEHM	
176167-001	50.14		
-002	49.92		
-003	50.09		
-004	50.21		
-005	50.00		
-006	Mc 11/22 ~~50.27~~ 50.16		MSS
-007	50.33		
-008	50.01		176167-007A
MS	50.36		
MSD	49.84		EM44028421
LCS	50.33		
MB	30.14	MW 11/22 ~~8081~~ 8270	
176193-001	29.93		
-002	30.27		
-003	29.74		
-004	14.84	PCB	
176193-001	15.06		
-002	15.11		
-003	14.89		
-004	50.32	TEHM	
176193-001	50.40		
-002	49.76		
-003	50.32		
-004			

Continued on Page

Read and Understood By

Michelle Clark — Signed

11/22/04 — Date

327

Signed — Date

Project Soil Aliquot

Continued from Page

BK2032

Sample ID	Weight (g)	Analysis	Comments
176168-005A		8100	
-006			
-011			
-012			
-013			
-014			
-015			
-016			
176210-001A	15.08	PCB	
-002	14.92		
-003	14.86		
-004	15.08		
-005	15.10		
-006	14.80		
-007	15.20		
-008	14.82		
-009	15.13		
-010	15.14		
-011	14.80		
176210-001A	14.90	8081	
-002	14.94		
-003	15.19		
-004	14.98		
-005	15.18		
-006	15.07		
-007	14.99		
-008	15.11		
-009	14.96		
-010	15.07		
-011	14.82		
176210-007A	30.29	8270	
-007	50.06	TEHM	

Continued on Page

Michelle Curtis
Signed

11/22/04
Date

Read and Understood By

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14B A	GC14B B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

326

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Diln Fac:	1.000	Prepared:	11/22/04
Batch#:	96783		

Field ID:	BB3EX145[0.5]	Moisture:	2%
Type:	SAMPLE	Analyzed:	11/23/04
Lab ID:	176210-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	83	9.7
Aroclor-1260	ND	9.7

Surrogate	%REC	Limits
TCMX	70	65-135
Decachlorobiphenyl	86	65-135

Field ID:	BB3EX145[1.0]	Moisture:	5%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-002	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Diln Fac:	1.000	Prepared:	11/22/04
Batch#:	96783		

Field ID:	BB3EX146[0.5]	Moisture:	2%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-003	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.9
Aroclor-1221	ND	20
Aroclor-1232	ND	9.9
Aroclor-1242	ND	9.9
Aroclor-1248	ND	9.9
Aroclor-1254	ND	9.9
Aroclor-1260	ND	9.9

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	105	65-135

Field ID:	BB3EX146[1.0]	Moisture:	4%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-004	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.9
Aroclor-1221	ND	20
Aroclor-1232	ND	9.9
Aroclor-1242	ND	9.9
Aroclor-1248	ND	9.9
Aroclor-1254	ND	9.9
Aroclor-1260	ND	9.9

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	110	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Diln Fac:	1.000	Prepared:	11/22/04
Batch#:	96783		

Field ID:	BB3EX147[0.5]	Moisture:	7%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	45	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	88	65-135

Field ID:	BB3EX147[1.5]	Moisture:	5%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	121	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Diln Fac:	1.000	Prepared:	11/22/04
Batch#:	96783		

Field ID:	BB3EX149[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-007	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	9.9
Aroclor-1221	ND	20
Aroclor-1232	ND	9.9
Aroclor-1242	ND	9.9
Aroclor-1248	ND	9.9
Aroclor-1254	ND	9.9
Aroclor-1260	ND	9.9

Surrogate	%REC	Limits
TCMX	68	65-135
Decachlorobiphenyl	89	65-135

Field ID:	BB3EX150[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-008	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	110	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Diln Fac:	1.000	Prepared:	11/22/04
Batch#:	96783		

Field ID:	BB3EX150[2.5]	Moisture:	6%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-009	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	116	65-135

Field ID:	DUP112204A	Moisture:	6%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-010	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	105	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/22/04
Units:	ug/Kg	Received:	11/22/04
Diln Fac:	1.000	Prepared:	11/22/04
Batch#:	96783		

Field ID:	BB3EX148[0.5]	Moisture:	8%
Type:	SAMPLE	Analyzed:	11/24/04
Lab ID:	176210-011	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	21
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	92	11
Aroclor-1254	ND	11
Aroclor-1260	ND	11

Surrogate	%REC	Limits
TCMX	87	65-135
Decachlorobiphenyl	99	65-135

Type:	BLANK	Analyzed:	11/23/04
Lab ID:	QC273463	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	106	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC273464	Batch#:	96783
Matrix:	Soil	Prepared:	11/22/04
Units:	ug/Kg	Analyzed:	11/23/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	164.8	176.8	107	65-135

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	109	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	96783
MSS Lab ID:	176188-001	Sampled:	11/19/04
Matrix:	Soil	Received:	11/19/04
Units:	ug/Kg	Prepared:	11/22/04
Basis:	as received	Analyzed:	11/23/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC273465

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<4.400	166.4	159.9	96	65-135

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	92	65-135

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC273466

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	164.0	171.7	105	65-135	9	35

Surrogate	%REC	Limits
TCMX	77	65-135
Decachlorobiphenyl	100	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	316_009	204456284009	pcb10_2	11-NOV-2004 20:44	04WS1786
2	316_010	204456284010	pcb25_5	11-NOV-2004 21:18	04WS1787
3	316_011	204456284011	pcb100_20	11-NOV-2004 21:51	04WS1788
4	316_012	204456284012	pcb250_50	11-NOV-2004 22:24	04WS1789
5	316_013	204456284013	pcb500_100	11-NOV-2004 22:57	04WS1790
6	316_014	204456284014	pcb750_150	11-NOV-2004 23:30	04WS1791
7	316_015	204456284015	pcb1k_200	12-NOV-2004 00:04	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	261.48	241.89	254.35	221.65	239.37	241.18	224.28	AVRG	R		0.004156		pg	240.60	6	.99	20	
Aroclor-1016 Peak # 2	A	533.49	499.25	525.72	415.19	433.65	428.19	393.83	AVRG	R		0.002168		pg	461.33	12	.99	20	
Aroclor-1016 Peak # 3	A	564.73	533.69	549.22	458.79	502.50	495.49	465.89	AVRG	R		0.001961		pg	510.05	8	.99	20	
Aroclor-1016 Peak # 4	A	242.53	237.94	243.00	205.66	232.89	231.63	220.30	AVRG	R		0.004337		pg	230.56	6	.99	20	
Aroclor-1016 Peak # 5	A	103.40	209.91	187.31	156.99	172.29	171.77	160.49	AVRG	R		0.006023		pg	166.02	20	.99	20	
Aroclor-1260 Peak # 1	A	268.40	246.51	258.02	213.38	233.79	224.81	212.27	AVRG	R		0.004224		pg	236.74	9	.99	20	
Aroclor-1260 Peak # 2	A	376.99	357.86	338.29	277.22	313.06	301.86	290.13	AVRG	R		0.003104		pg	322.20	11	.99	20	
Aroclor-1260 Peak # 3	A	420.08	413.71	429.64	344.80	377.40	351.04	334.25	AVRG	R		0.002621		pg	381.56	10	.99	20	
Aroclor-1260 Peak # 4	A	599.44	404.88	489.66	374.38	418.02	388.99	373.66	AVRG	R		0.002296		pg	435.58	19	.99	20	
Aroclor-1260 Peak # 5	A	1155.8	1092.0	994.64	771.29	859.63	789.20	759.96	AVRG	R		0.001090		pg	917.50	18	.99	20	
TCMX	A	13516	12108	11529	9793.1	10589	10651	10004	AVRG	R		8.953E-5		pg	11170	12	.99	20	
Decachlorobiphenyl	A			10187	7756.8	8364.6	7334.6	7076.3	AVRG	R		1.228E-4		pg	8143.9	15	.99	20	
Aroclor-1016 Peak # 1	B	473.52	445.14	452.81	426.78	418.49	427.42	380.14	AVRG	R		0.002315		pg	432.04	7	.99	20	
Aroclor-1016 Peak # 2	B	766.85	669.70	630.16	534.47	533.49	527.36	472.92	AVRG	R		0.001693		pg	590.71	17	.99	20	
Aroclor-1016 Peak # 3	B	1878.2	1673.6	1602.8	1404.9	1429.9	1391.1	1277.9	AVRG	R		6.568E-4		pg	1522.6	14	.99	20	
Aroclor-1016 Peak # 4	B	398.83	380.82	383.28	439.40	459.90	455.53	423.28	AVRG	R		0.002380		pg	420.15	8	.99	20	
Aroclor-1016 Peak # 5	B	572.52	549.99	549.41	458.42	469.07	454.38	417.50	AVRG	R		0.002017		pg	495.90	12	.99	20	
Aroclor-1260 Peak # 1	B	1235.0	1244.3	1097.3	884.25	905.35	831.63	797.70	AVRG	R		0.001001		pg	999.37	19	.99	20	
Aroclor-1260 Peak # 2	B	1402.9	1421.5	1383.1	1155.0	1218.0	1080.6	1062.5	AVRG	R		8.024E-4		pg	1246.2	12	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	800.72	867.86	708.74	580.23	600.39	543.62	536.02	AVRG	R		0.001509		pg	662.51	20	.99	20	
Aroclor-1260 Peak # 4	B	804.18	835.16	813.93	620.14	657.60	597.79	597.96	AVRG	R		0.001421		pg	703.82	15	.99	20	
Aroclor-1260 Peak # 5	B	1856.5	1777.6	1580.0	1233.9	1312.1	1184.5	1158.3	AVRG	R		6.929E-4		pg	1443.3	20	.99	20	
TCMX	B	26232	23416	20877	17308	17565	17236	15914	AVRG	R		5.052E-5		pg	19793	19	.99	20	
Decachlorobiphenyl	B			12404	9082.8	9422.3	8255.5	7950.1	AVRG	R		1.061E-4		pg	9422.9	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176210 PCB Soil
- Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204461493001 Name: Type: (normal) Date: 15-NOV-2004 12:43 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	320_004	204461493004	ar1254	15-NOV-2004 12:43	04WS2184

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	361.99	AVRG	R		0.002762		pg	361.99	0	.99	20	
Aroclor-1254 Peak # 2	A	656.87	AVRG	R		0.001522		pg	656.87	0	.99	20	
Aroclor-1254 Peak # 3	A	392.50	AVRG	R		0.002548		pg	392.50	0	.99	20	
Aroclor-1254 Peak # 4	A	458.04	AVRG	R		0.002183		pg	458.04	0	.99	20	
Aroclor-1254 Peak # 5	A	471.56	AVRG	R		0.002121		pg	471.56	0	.99	20	
Aroclor-1254 Peak # 1	B	822.63	AVRG	R		0.001216		pg	822.63	0	.99	20	
Aroclor-1254 Peak # 2	B	1102.5	AVRG	R		9.071E-4		pg	1102.5	0	.99	20	
Aroclor-1254 Peak # 3	B	715.23	AVRG	R		0.001398		pg	715.23	0	.99	20	
Aroclor-1254 Peak # 4	B	1244.6	AVRG	R		8.034E-4		pg	1244.6	0	.99	20	
Aroclor-1254 Peak # 5	B	279.17	AVRG	R		0.003582		pg	279.17	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: RH
Calnum: 204473048001 Name: Type: (normal) Date: 24-NOV-2004 12:24 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328_039	204473048039	ar1248	24-NOV-2004 12:24	04WS1542

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1248 Peak # 1	A	188.32	AVRG	R		0.005310		pg	188.32	0	.99	20	
Aroclor-1248 Peak # 2	A	223.65	AVRG	R		0.004471		pg	223.65	0	.99	20	
Aroclor-1248 Peak # 3	A	294.08	AVRG	R		0.003400		pg	294.08	0	.99	20	
Aroclor-1248 Peak # 4	A	292.60	AVRG	R		0.003418		pg	292.60	0	.99	20	
Aroclor-1248 Peak # 5	A	389.15	AVRG	R		0.002570		pg	389.15	0	.99	20	
Aroclor-1248 Peak # 1	B	220.17	AVRG	R		0.004542		pg	220.17	0	.99	20	
Aroclor-1248 Peak # 2	B	839.72	AVRG	R		0.001191		pg	839.72	0	.99	20	
Aroclor-1248 Peak # 3	B	536.52	AVRG	R		0.001864		pg	536.52	0	.99	20	
Aroclor-1248 Peak # 4	B	794.00	AVRG	R		0.001259		pg	794.00	0	.99	20	
Aroclor-1248 Peak # 5	B	739.37	AVRG	R		0.001353		pg	739.37	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Turbochrom Sequence File G:\gc06\files\316.seq
Printed by : analyst on: 11/12/04 3:45:04 PM
Created by : analyst on: 11/11/04 2:43:50 PM
Edited by : analyst on: 11/12/04 3:44:55 PM
Number of Times Edited : 4
Description: GC06

Sequence File Header Information:
Number of Rows : 21
Instrument Type : HP5890 Series II GC with HP7673A Autosampler
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Name	Number	Dil Factor	Multiplier
1	hex	316	1.000000	1.000000
2	primer		1.000000	1.000000
3	primer		1.000000	1.000000
4	primer		1.000000	1.000000
5	primer		1.000000	1.000000
6	primer		1.000000	1.000000
7	hex		1.000000	1.000000
8	hex		1.000000	1.000000
9	ical,04ws1786,pcb10_2	250ug/l	1.000000	1.000000
10	ical,04ws1787,pcb25_5	250ug/l	1.000000	1.000000
11	ical,04ws1788,pcb100_20	250ug/l	1.000000	1.000000
12	ical,04ws1789,pcb250_50	250ug/l	1.000000	1.000000
13	ical,04ws1790,pcb500_100	250ug/l	1.000000	1.000000
14	ical,04ws1791,pcb750_150	250ug/l	1.000000	1.000000
15	ical,04ws1792,pcb1k_200	250ug/l	1.000000	1.000000
16	hex		1.000000	1.000000
17	hex		1.000000	1.000000
18	icv,04ws1609,accu_1660	250ug/l	1.000000	1.000000
19	x,icv,04ws1609,accu_1660	250ug/l	1.000000	1.000000
20	x,icv,04ws2171,accu_1660	250ug/l	1.000000	1.000000
21	hex		1.000000	1.000000

Sequence Sample Descriptions - Channel B

Row	Name	Number	Dil Factor	Multiplier
1	hex	316	1.000000	1.000000
2	primer		1.000000	1.000000
3	primer		1.000000	1.000000
4	primer		1.000000	1.000000
5	primer		1.000000	1.000000
6	primer		1.000000	1.000000
7	hex		1.000000	1.000000
8	hex		1.000000	1.000000
9	ical,04ws1786,pcb10_2	250ug/l	1.000000	1.000000
10	ical,04ws1787,pcb25_5	250ug/l	1.000000	1.000000
11	ical,04ws1788,pcb100_20	250ug/l	1.000000	1.000000
12	ical,04ws1789,pcb250_50	250ug/l	1.000000	1.000000
13	ical,04ws1790,pcb500_100	250ug/l	1.000000	1.000000
14	ical,04ws1791,pcb750_150	250ug/l	1.000000	1.000000
15	ical,04ws1792,pcb1k_200	250ug/l	1.000000	1.000000
16	hex		1.000000	1.000000
17	hex		1.000000	1.000000
18	icv,04ws1609,accu_1660	250ug/l	1.000000	1.000000
19	x,icv,04ws1609,accu_1660	250ug/l	1.000000	1.000000
20	x,icv,04ws2171,accu_1660	250ug/l	1.000000	1.000000
21	hex		1.000000	1.000000

Turbochrom Sequence File G:\gc06\files\316.seq
Printed by : analyst on: 11/12/04 3:45:11 PM
Created by : analyst on: 11/11/04 2:43:50 PM
Edited by : analyst on: 11/12/04 3:44:55 PM
Number of Times Edited : 4
Description: GC06

Sequence File Header Information:
Number of Rows : 21
Instrument Type : HP5890 Series II GC with HP7673A Autosampler
Injection Type : SINGLE

Sequence Process Information - Channel A

Row	Vial	Inst Method	Proc Method	Calib Method	Rpt Fmt File	Raw Data File	Printer
1	1	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a001	\\GATEKEEPER\pm_pests
2	2	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a002	\\GATEKEEPER\pm_pests
3	3	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a003	\\GATEKEEPER\pm_pests
4	4	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a004	\\GATEKEEPER\pm_pests
5	5	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a005	\\GATEKEEPER\pm_pests
6	6	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a006	\\GATEKEEPER\pm_pests
7	7	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a007	\\GATEKEEPER\pm_pests
8	8	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a008	\\GATEKEEPER\pm_pests
9	9	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a009	\\GATEKEEPER\pm_pests
10	10	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a010	\\GATEKEEPER\pm_pests
11	11	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a011	\\GATEKEEPER\pm_pests
12	12	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a012	\\GATEKEEPER\pm_pests
13	13	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a013	\\GATEKEEPER\pm_pests
14	14	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a014	\\GATEKEEPER\pm_pests
15	15	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a015	\\GATEKEEPER\pm_pests
16	16	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a016	\\GATEKEEPER\pm_pests
17	17	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a017	\\GATEKEEPER\pm_pests
18	18	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a018	\\GATEKEEPER\pm_pests
19	19	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a019	\\GATEKEEPER\pm_pests
20	20	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a020	\\GATEKEEPER\pm_pests
21	21	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460a316	g:\gc06\files\5460a316	g:\gc06\files\gc06_pcba	g:\gc06\cha\316a021	\\GATEKEEPER\pm_pests

Sequence Process Information - Channel B

Row	Vial	Inst Method	Proc Method	Calib Method	Rpt Fmt File	Raw Data File	Printer
1	1	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b001	\\GATEKEEPER\pm_pests
2	2	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b002	\\GATEKEEPER\pm_pests
3	3	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b003	\\GATEKEEPER\pm_pests
4	4	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b004	\\GATEKEEPER\pm_pests
5	5	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b005	\\GATEKEEPER\pm_pests
6	6	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b006	\\GATEKEEPER\pm_pests
7	7	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b007	\\GATEKEEPER\pm_pests
8	8	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b008	\\GATEKEEPER\pm_pests
9	9	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b009	\\GATEKEEPER\pm_pests
10	10	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b010	\\GATEKEEPER\pm_pests
11	11	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b011	\\GATEKEEPER\pm_pests
12	12	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b012	\\GATEKEEPER\pm_pests
13	13	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b013	\\GATEKEEPER\pm_pests
14	14	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b014	\\GATEKEEPER\pm_pests
15	15	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b015	\\GATEKEEPER\pm_pests
16	16	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b016	\\GATEKEEPER\pm_pests
17	17	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b017	\\GATEKEEPER\pm_pests
18	18	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b018	\\GATEKEEPER\pm_pests
19	19	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b019	\\GATEKEEPER\pm_pests
20	20	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b020	\\GATEKEEPER\pm_pests
21	21	g:\gc06\files\gc06fsa1ul	g:\gc06\files\5460b316	g:\gc06\files\5460b316	g:\gc06\files\gc06_pcbb	g:\gc06\chb\316b021	\\GATEKEEPER\pm_pests

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204456284020
Calnum : 204456284001
Standards: 04WS2171

Run Name : accu_1660
Filename : 316_020
Caldate : 11-NOV-2004

Injected : 12-NOV-2004 15:44
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aroclor-1016	A	250.0000	281.0044	pg	12	15	
Aroclor-1260	A	250.0000	259.4729	pg	4	15	
TCMX	A	50.00000	51.32972	pg	3	15	
Decachlorobiphenyl	A	50.00000	59.95863	pg	20	15	
Aroclor-1016	B	250.0000	260.5455	pg	4	15	
Aroclor-1260	B	250.0000	256.6185	pg	3	15	
TCMX	B	50.00000	47.05805	pg	-6	15	
Decachlorobiphenyl	B	50.00000	58.17206	pg	16	15	

[illegible] 11/13/04

11/12/04

Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws2171,accu_1660
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 11/12/04 4:30:38 PM
Data Acquisition Time : 11/12/04 3:44:33 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a020p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	573347.99	51.33	1.0000	1	51.33	10.27
Aroclor-1016	10.862	450216.17	279.89	1.0000	1	279.89	55.98
Aroclor-1254	15.992	349888.14	0.35	1.0000	1	0.35	0.07
Aroclor-1260	18.307	596529.17	260.09	1.0000	1	260.09	52.02
Decachlorobiphenyl	21.640	488295.73	59.96	1.0000	1	59.96	11.99
		2458277.19	651.61			651.61	130.32

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	67817.84	281.87	1.0000	1	281.87	56.37
PCB1016#2	9.627	124072.57	268.94	1.0000	1	268.94	53.79
PCB1016#3	10.862	145617.57	285.50	1.0000	1	285.50	57.10
PCB1016#4	11.371	65334.27	283.37	1.0000	1	283.37	56.67
PCB1016#5	11.840	47373.93	285.34	1.0000	1	285.34	57.07
		450216.17	1405.02			1405.02	281.00

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.764	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.976	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.454	2127.21	1.90	1.0000	1	1.90	0.38
PCB1254#4	15.311	135655.40	146.08	1.0000	1	146.08	29.22
PCB1254#5	15.992	212105.53	170.77	1.0000	1	170.77	34.15
		349888.14	318.76			318.76	63.75

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.969	58927.42	248.91	1.0000	1	248.91	49.78
PCB1260#2	16.302	84621.24	262.63	1.0000	1	262.63	52.53
PCB1260#3	16.956	103463.42	271.16	1.0000	1	271.16	54.23
PCB1260#4	17.561	110883.50	254.57	1.0000	1	254.57	50.91
PCB1260#5	18.307	238633.59	260.09	1.0000	1	260.09	52.02
		596529.17	1297.36			1297.36	259.47

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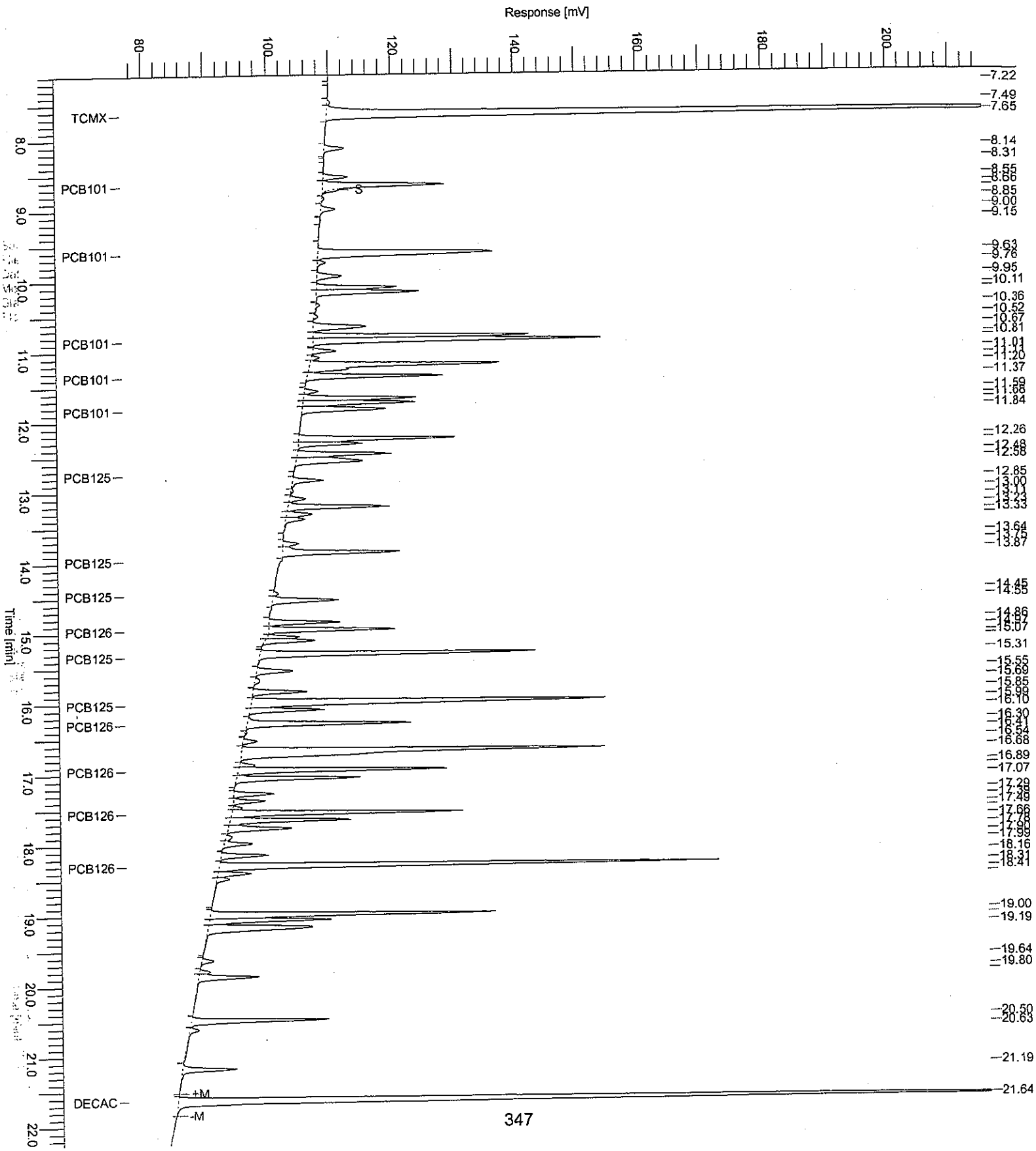
Report stored in ASCII file: G:\gc06\cha\316a020p.TX0

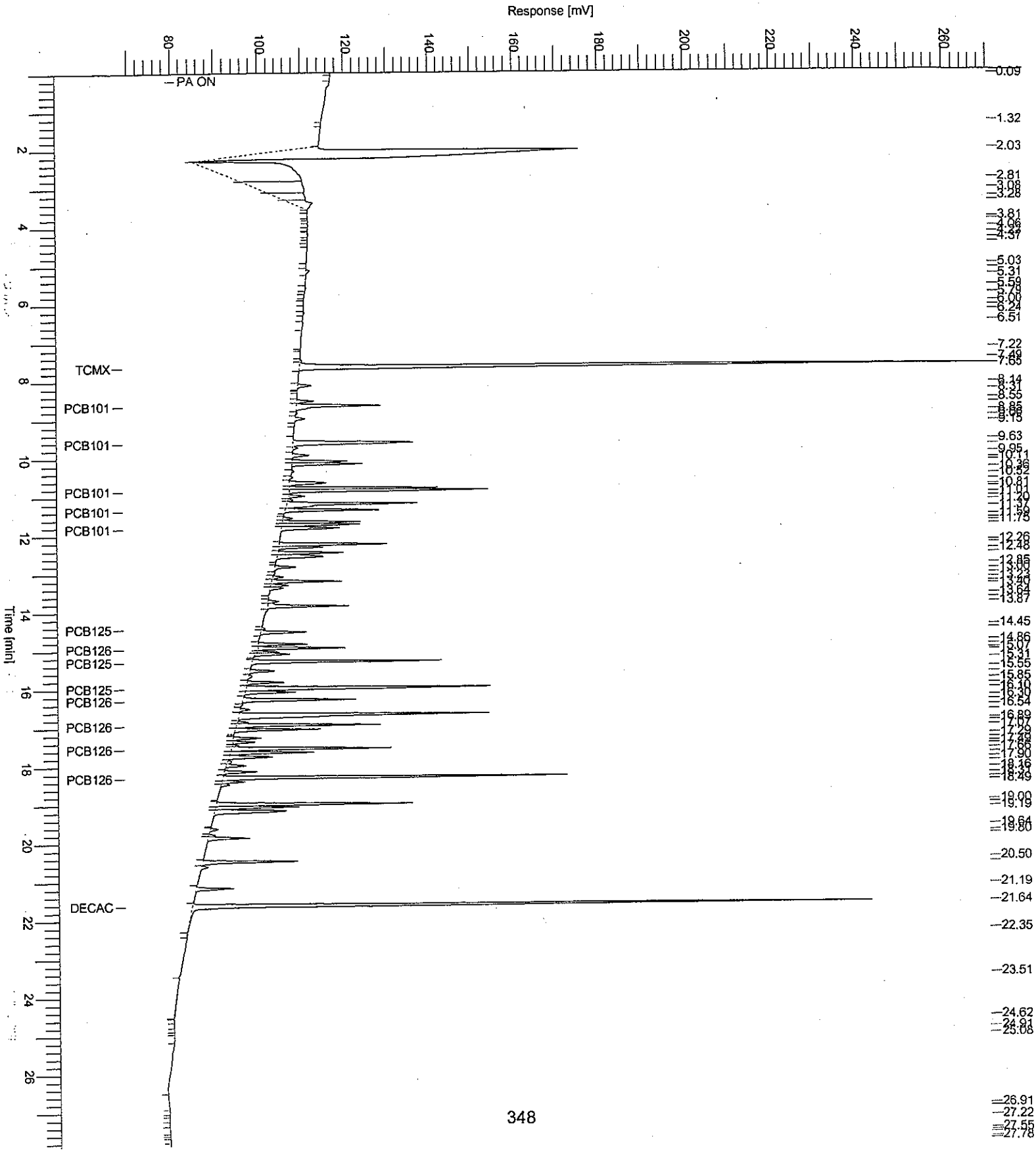
GC 06 Rtx-CLPesticides

ample Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHa\316a020.raw
ate : 11/12/04 4:30:42 PM
ethod :
Time of Injection: 11/12/04 3:44:33 PM
tart Time : 7.09 min End Time : 22.27 min Low Point : 76.57 mV High Point : 215.41 mV
lot Offset: 76.57 mV Plot Scale: 138.8 mV



GC 06 Rtx-CLPesticides

ample Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHa\316a020.raw
ate : 11/12/04 4:29:42 PM
lethod : gc06fsa1ul Time of Injection: 11/12/04 3:44:33 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 68.70 mV High Point : 270.41 mV
cale Factor: 1.0 Plot Offset: 68.70 mV Plot Scale: 201.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws2171,accu_1660
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 11/12/04 4:31:33 PM
Data Acquisition Time : 11/12/04 3:44:33 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b020p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.453	931406.06	47.06	1.0000	1	47.06	9.41
Aroclor-1016	9.453	895977.64	258.85	1.0000	1	258.85	51.77
Aroclor-1254	14.398	48425.56	0.05	1.0000	1	0.05	0.01
Aroclor-1260	16.867	1302925.68	257.74	1.0000	1	257.74	51.55
Decachlorobiphenyl	20.627	548146.61	58.17	1.0000	1	58.17	11.63
		3726881.54	621.87			621.87	124.37

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.333	112430.44	260.23	1.0000	1	260.23	52.05
PCB1016#2	8.800	146576.53	248.14	1.0000	1	248.14	49.63
PCB1016#3	9.453	392042.25	257.48	1.0000	1	257.48	51.50
PCB1016#4	9.893	118199.31	281.33	1.0000	1	281.33	56.27
PCB1016#5	10.813	126729.11	255.55	1.0000	1	255.55	51.11
		895977.64	1302.73			1302.73	260.55

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.454	1928.10	1.95	1.0000	1	1.95	0.39
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.635	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.398	46497.46	172.31	1.0000	1	172.31	34.46
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		48425.56	174.26			174.26	34.85

Group Report For : Aroclor-1260

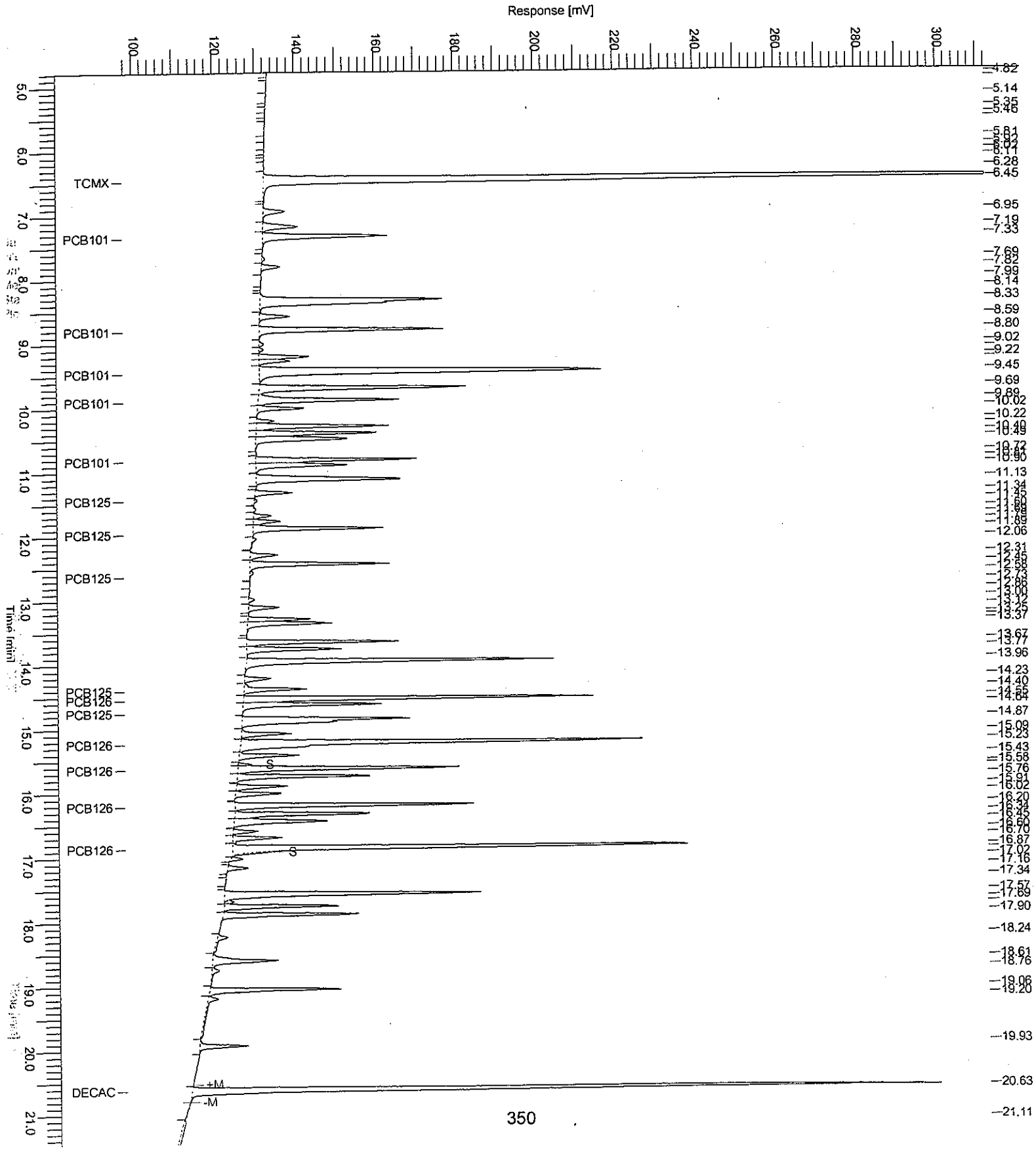
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	254587.61	254.75	1.0000	1	254.75	50.95
PCB1260#2	15.227	354222.03	284.24	1.0000	1	284.24	56.85
PCB1260#3	15.627	165328.93	249.55	1.0000	1	249.55	49.91
PCB1260#4	16.200	176076.98	250.17	1.0000	1	250.17	50.03
PCB1260#5	16.867	352710.13	244.39	1.0000	1	244.39	48.88
		1302925.68	1283.09			1283.09	256.62

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\316b020p.TX0

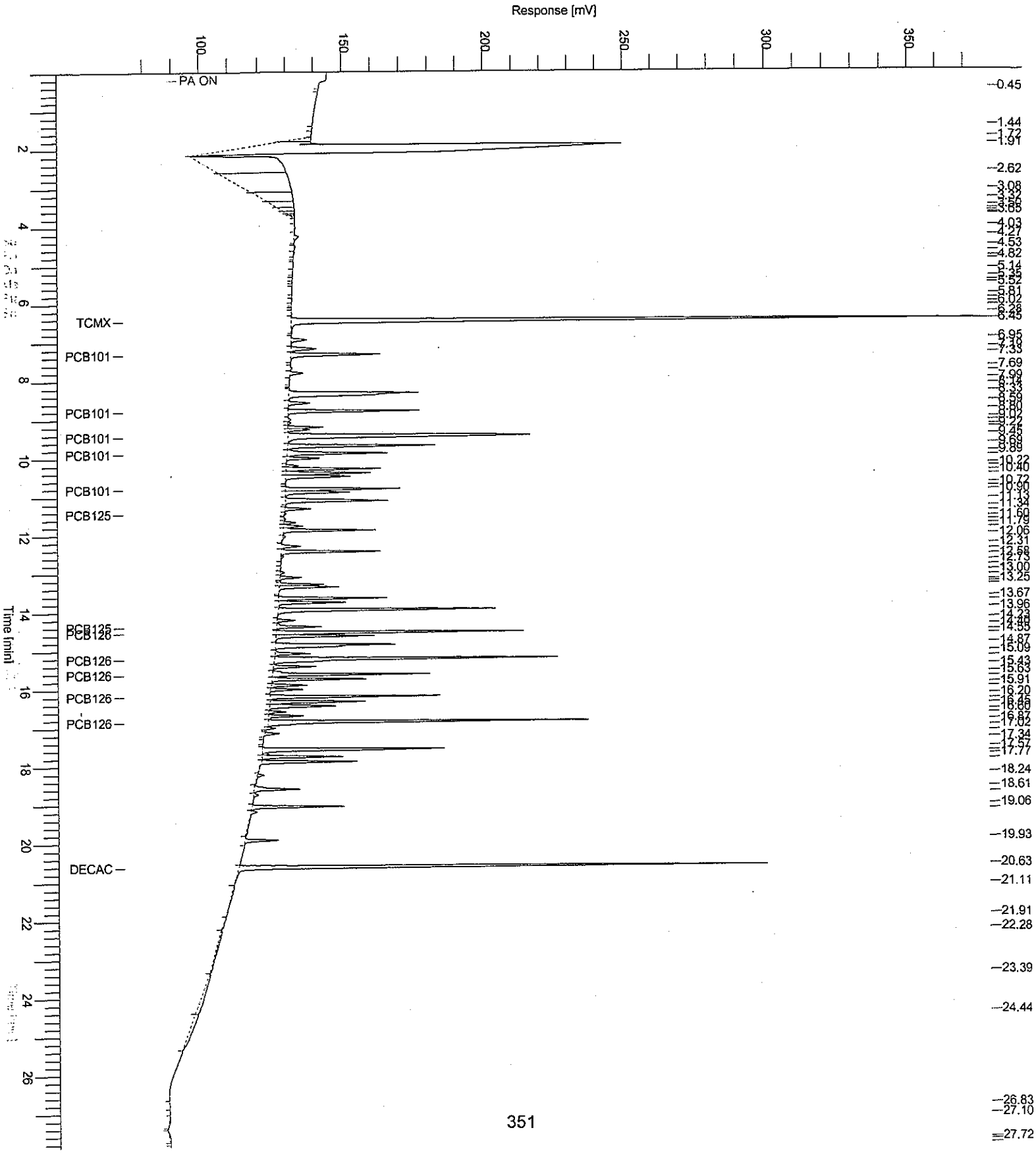
GC 06 Rtx-5

ample Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\CHb\316b020.raw
ate : 11/12/04 4:31:38 PM
ethod :
Time of Injection: 11/12/04 3:44:33 PM
tart Time : 4.79 min End Time : 21.47 min Low Point : 97.70 mV High Point : 312.19 mV
lot Offset: 97.70 mV Plot Scale: 214.5 mV



GC 06 Rtx-5

ample Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHb\316b020
ate : 11/12/04 4:29:48 PM
ethod : gc06fsa1ul Time of Injection: 11/12/04 3:44:33 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 73.16 mV High Point : 378.88 mV
cale Factor: 1.0 Plot Offset: 73.16 mV Plot Scale: 305.7 mV



Turbochrom Method File G:\gc06\files\5460a316.mth
Printed by : analyst on: 11/12/04 12:34:38 PM
Created by : analyst on: 11/12/04 11:23:04 AM
Edited by : analyst on: 11/12/04 12:34:12 PM
Number of Times Edited : 17
Number of Times Calibrated : 204
Description: gc06

Mins 11/13/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 7.653 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	230576.05	62795.44	----------	----------	1
4	50.0000	489654.36	133315.76	----------	----------	1
5	100.0000	1058904.69	280995.29	----------	----------	1
6	150.0000	1597577.72	431211.17	----------	----------	1
7	200.0000	2000763.06	534505.51	----------	----------	1
1	2.0000	27031.46	7151.92	----------	----------	1
2	5.0000	60541.64	15999.56	----------	----------	1

Average Calibration Factor = 11169.904270 (%RSD = 11.77)

11/12/04

PCB1016#1
Component Type : Single Peak Component
Retention Time : 8.663 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2614.76	758.19	----------	----------	1
2	25.0000	6047.28	1712.54	----------	----------	1
3	100.0000	25435.36	7073.23	----------	----------	1
4	250.0000	55413.64	14848.26	----------	----------	1
5	500.0000	119683.96	31422.09	----------	----------	1
6	750.0000	180885.32	47343.69	----------	----------	1
7	1000.0000	224281.06	58621.51	----------	----------	1

Average Calibration Factor = 240.600642 (%RSD = 6.01)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 9.623 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5334.92	1266.93	----------	----------	1
2	25.0000	12481.31	2865.62	----------	----------	1
3	100.0000	52571.61	11523.98	----------	----------	1
4	250.0000	103798.14	23215.39	----------	----------	1
5	500.0000	216827.41	47419.82	----------	----------	1
6	750.0000	321143.91	70179.44	----------	----------	1
7	1000.0000	393826.68	85470.55	----------	----------	1

Average Calibration Factor = 461.332340 (%RSD = 12.31)

Aroclor-1016

Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	17056.31	5094.55	----------	----------	1
2	25.0000	43066.96	11773.25	----------	----------	1
3	100.0000	175960.19	47693.44	----------	----------	1
4	250.0000	364574.32	98980.61	----------	----------	1
5	500.0000	790353.41	212600.71	----------	----------	1
6	750.0000	1176192.11	316038.39	----------	----------	1
7	1000.0000	1464796.77	394744.59	----------	----------	1

Average Calibration Factor = 1608.566953 (%RSD = 7.65)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 10.861 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5647.33	1769.88	----------	----------	1
2	25.0000	13342.29	4095.21	----------	----------	1
3	100.0000	54922.03	16516.23	----------	----------	1
4	250.0000	114698.09	34201.92	----------	----------	1
5	500.0000	251248.30	74712.63	----------	----------	1
6	750.0000	371615.50	110108.29	----------	----------	1
7	1000.0000	465894.44	139736.84	----------	----------	1

Average Calibration Factor = 510.045123 (%RSD = 7.98)

PCB1016#4

Component Type : Single Peak Component
Retention Time : 11.370 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2425.29	793.10	----------	----------	1
2	25.0000	5948.41	1848.81	----------	----------	1
3	100.0000	24300.30	7568.07	----------	----------	1
4	250.0000	51416.21	15924.26	----------	----------	1
5	500.0000	116446.84	35531.93	----------	----------	1
6	750.0000	173718.76	53438.94	----------	----------	1
7	1000.0000	220301.44	67279.67	----------	----------	1

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Average Calibration Factor = 230.564712 (%RSD = 5.83)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 11.842 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1034.02	506.44	----------	----------	1
2	25.0000	5247.68	1251.07	----------	----------	1
3	100.0000	18730.89	5011.93	----------	----------	1
4	250.0000	39248.24	10790.78	----------	----------	1
5	500.0000	86146.90	23514.24	----------	----------	1
6	750.0000	128828.61	34968.02	----------	----------	1
7	1000.0000	160493.14	43636.01	----------	----------	1

Average Calibration Factor = 166.024135 (%RSD = 19.80)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 12.764 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	157135.71	46457.71	----------	----------	1

Average Calibration Factor = 628.542858 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 13.976 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	162748.64	45972.56	----------	----------	1

Average Calibration Factor = 650.994557 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 14.462 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	280015.34	81048.45	----------	----------	1

Average Calibration Factor = 1120.061357 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.966 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2684.03	880.17	----------	----------	1
2	25.0000	6162.67	2029.81	----------	----------	1
3	100.0000	25801.69	8305.58	----------	----------	1
4	250.0000	53344.18	16736.94	----------	----------	1
5	500.0000	116893.53	37148.00	----------	----------	1
6	750.0000	168610.19	53664.22	----------	----------	1
7	1000.0000	212272.76	67364.88	----------	----------	1

Average Calibration Factor = 236.739560 (%RSD = 9.20)

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

PCB1254#4
Component Type : Single Peak Component
Retention Time : 15.343 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	232151.81	57119.32	----------	----------	1

Average Calibration Factor = 928.607232 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.021 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	310509.19	65700.49	----------	----------	1

Average Calibration Factor = 1242.036779 (%RSD = 0.00)

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

PCB1260#2
Component Type : Single Peak Component
Retention Time : 16.299 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3769.94	1120.61	----------	----------	1
2	25.0000	8946.58	2602.39	----------	----------	1
3	100.0000	33829.17	10226.79	----------	----------	1
4	250.0000	69304.46	20475.87	----------	----------	1
5	500.0000	156529.81	46919.71	----------	----------	1
6	750.0000	226397.08	67041.51	----------	----------	1
7	1000.0000	290132.94	88834.64	----------	----------	1

Average Calibration Factor = 322.203111 (%RSD = 11.39)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 16.952 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4200.80	1408.12	----------	----------	1
2	25.0000	10342.79	3404.72	----------	----------	1
3	100.0000	42964.13	13619.77	----------	----------	1
4	250.0000	86198.85	26676.27	----------	----------	1
5	500.0000	188698.76	58756.39	----------	----------	1
6	750.0000	263280.73	84713.50	----------	----------	1
7	1000.0000	334249.52	107548.08	----------	----------	1

Average Calibration Factor = 381.559484 (%RSD = 10.36)

PCB1260#4
Component Type : Single Peak Component
Retention Time : 17.559 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5994.41	1768.85	----------	----------	1
2	25.0000	10121.95	3748.28	----------	----------	1
3	100.0000	48965.52	15421.46	----------	----------	1
4	250.0000	93595.94	29559.75	----------	----------	1
5	500.0000	209009.75	64451.94	----------	----------	1
6	750.0000	291742.67	91324.34	----------	----------	1
7	1000.0000	373663.89	116176.99	----------	----------	1

Average Calibration Factor = 435.576024 (%RSD = 18.93)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	28207.21	8833.94	----------	----------	1
2	25.0000	62873.33	20504.43	----------	----------	1
3	100.0000	251024.29	79624.84	----------	----------	1
4	250.0000	495264.78	154500.90	----------	----------	1
5	500.0000	1100945.56	344645.24	----------	----------	1
6	750.0000	1541927.23	484680.03	----------	----------	1
7	1000.0000	1970280.91	619345.64	----------	----------	1

Average Calibration Factor = 2293.575897 (%RSD = 14.25)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 18.307 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	11558.02	3656.20	----------	----------	1
2	25.0000	27299.34	8719.24	----------	----------	1
3	100.0000	99463.79	32051.24	----------	----------	1
4	250.0000	192821.34	61052.07	----------	----------	1
5	500.0000	429813.71	137369.21	----------	----------	1
6	750.0000	591896.56	187936.47	----------	----------	1
7	1000.0000	759961.80	239421.06	----------	----------	1

Average Calibration Factor = 917.497717 (%RSD = 17.75)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.642 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	203741.21	64457.27	----------	----------	1
4	50.0000	387840.94	124286.31	----------	----------	1
5	100.0000	836459.74	258346.96	----------	----------	1
6	150.0000	1100187.29	342154.97	----------	----------	1
7	200.0000	1415265.08	438763.20	----------	----------	1

Average Calibration Factor = 8143.876800 (%RSD = 15.25)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
230576.05	62795.44	20.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
489654.36	133315.76	50.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1058904.69	280995.29	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1597577.72	431211.17	150.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2000763.06	534505.51	200.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27031.46	7151.92	2.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60541.64	15999.56	5.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2614.76	758.19	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6047.28	1712.54	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25435.36	7073.23	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55413.64	14848.26	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119683.96	31422.09	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
180885.32	47343.69	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
224281.06	58621.51	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5334.92	1266.93	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12481.31	2865.62	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52571.61	11523.98	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103798.14	23215.39	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216827.41	47419.82	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
321143.91	70179.44	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
393826.68	85470.55	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17056.31	5094.55	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43066.96	11773.25	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175960.19	47693.44	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
364574.32	98980.61	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
790353.41	212600.71	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1176192.11	316038.39	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1464796.77	394744.59	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#3
Level : 1

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5647.33	1769.88	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13342.29	4095.21	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54922.03	16516.23	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114698.09	34201.92	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251248.30	74712.63	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371615.50	110108.29	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
465894.44	139736.84	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2425.29	793.10	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5948.41	1848.81	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24300.30	7568.07	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51416.21	15924.26	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116446.84	35531.93	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
173718.76	53438.94	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220301.44	67279.67	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1034.02	506.44	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5247.68	1251.07	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18730.89	5011.93	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39248.24	10790.78	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86146.90	23514.24	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128828.61	34968.02	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160493.14	43636.01	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157135.71	46457.71	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
162748.64	45972.56	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
280015.34	81048.45	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2684.03	880.17	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6162.67	2029.81	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25801.69	8305.58	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53344.18	16736.94	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116893.53	37148.00	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
168610.19	53664.22	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
212272.76	67364.88	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
232151.81	57119.32	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
310509.19	65700.49	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3769.94	1120.61	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8946.58	2602.39	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33829.17	10226.79	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69304.46	20475.87	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
156529.81	46919.71	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226397.08	67041.51	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290132.94	88834.64	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4200.80	1408.12	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10342.79	3404.72	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42964.13	13619.77	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86198.85	26676.27	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188698.76	58756.39	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
263280.73	84713.50	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
334249.52	107548.08	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#4
Level : 1

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5994.41	1768.85	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10121.95	3748.28	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48965.52	15421.46	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93595.94	29559.75	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209009.75	64451.94	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
291742.67	91324.34	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
373663.89	116176.99	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28207.21	8833.94	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62873.33	20504.43	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251024.29	79624.84	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
495264.78	154500.90	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100945.56	344645.24	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1541927.23	484680.03	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1970280.91	619345.64	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11558.02	3656.20	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27299.34	8719.24	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
99463.79	32051.24	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
192821.34	61052.07	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
429813.71	137369.21	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
591896.56	187936.47	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
759961.80	239421.06	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
203741.21	64457.27	20.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
387840.94	124286.31	50.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
836459.74	258346.96	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100187.29	342154.97	150.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7 Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1415265.08	438763.20	200.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Turbochrom Method File G:\gc06\files\5460b316.mth
Printed by : analyst on: 11/12/04 12:48:41 PM
Created by : analyst on: 11/12/04 11:25:52 AM
Edited by : analyst on: 11/12/04 12:48:37 PM
Number of Times Edited : 19
Number of Times Calibrated : 210
Description: gc 06

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 6.468 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	417535.59	107450.20	----------	----------	1
4	50.0000	865412.65	211766.74	----------	----------	1
5	100.0000	1756542.62	435806.13	----------	----------	1
1	2.0000	52464.74	13582.34	----------	----------	1
2	5.0000	117079.49	29448.58	----------	----------	1
6	150.0000	2585454.41	659761.68	----------	----------	1
7	200.0000	3182766.70	813803.41	----------	----------	1

Average Calibration Factor = 19792.703181 (%RSD = 19.40)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 7.351 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4735.19	1251.45	----------	----------	1
2	25.0000	11128.56	2874.03	----------	----------	1
3	100.0000	45281.46	11566.31	----------	----------	1
4	250.0000	106694.40	24486.31	----------	----------	1
5	500.0000	209246.24	50402.41	----------	----------	1
6	750.0000	320567.07	76513.02	----------	----------	1
7	1000.0000	380135.03	93279.33	----------	----------	1

Average Calibration Factor = 432.043393 (%RSD = 6.85)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 8.814 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	7668.52	2232.86	----------	----------	1
2	25.0000	16742.59	5017.95	----------	----------	1
3	100.0000	63015.84	18897.08	----------	----------	1
4	250.0000	133617.15	38017.65	----------	----------	1
5	500.0000	266742.73	77706.09	----------	----------	1
6	750.0000	395517.18	113297.48	----------	----------	1
7	1000.0000	472919.78	136992.42	----------	----------	1

Average Calibration Factor = 590.706283 (%RSD = 17.37)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 9.466 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18781.51	3731.55	----------	----------	1
2	25.0000	41840.17	8393.44	----------	----------	1
3	100.0000	160277.06	32380.92	----------	----------	1
4	250.0000	351234.46	67806.22	----------	----------	1
5	500.0000	714949.37	142763.92	----------	----------	1
6	750.0000	1043320.26	209216.94	----------	----------	1
7	1000.0000	1277925.05	259941.94	----------	----------	1

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Average Calibration Factor = 1522.626241 (%RSD = 13.55)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	40898.63	10192.48	----------	----------	1
2	25.0000	92981.59	23206.82	----------	----------	1
3	100.0000	361843.73	90503.77	----------	----------	1
4	250.0000	815999.70	190274.45	----------	----------	1
5	500.0000	1655422.24	393511.29	----------	----------	1
6	750.0000	2441838.47	584999.28	----------	----------	1
7	1000.0000	2971760.27	721325.81	----------	----------	1

Average Calibration Factor = 3461.421725 (%RSD = 10.74)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 9.908 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3988.25	1217.31	----------	----------	1
2	25.0000	9520.44	2767.99	----------	----------	1
3	100.0000	38328.43	11446.84	----------	----------	1
4	250.0000	109849.59	26986.54	----------	----------	1
5	500.0000	229947.63	52103.82	----------	----------	1
6	750.0000	341650.43	81672.86	----------	----------	1
7	1000.0000	423281.08	102751.40	----------	----------	1

Average Calibration Factor = 420.147909 (%RSD = 7.88)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 10.831 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5725.17	1759.30	----------	----------	1
2	25.0000	13749.82	4153.41	----------	----------	1
3	100.0000	54940.94	16212.62	----------	----------	1
4	250.0000	114604.11	32977.73	----------	----------	1
5	500.0000	234536.26	70535.06	----------	----------	1
6	750.0000	340783.52	104298.99	----------	----------	1
7	1000.0000	417499.33	128360.72	----------	----------	1

Average Calibration Factor = 495.897900 (%RSD = 12.11)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 11.450 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	247258.62	71932.91	----------	----------	1

Average Calibration Factor = 989.034469 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 11.973 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	338487.07	91477.10	----------	----------	1

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Average Calibration Factor = 1353.948284 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 12.635 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	205630.99	59242.22	----------	----------	1

Average Calibration Factor = 822.523953 (%RSD = 0.00)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 14.408 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	67462.74	17633.06	----------	----------	1

Average Calibration Factor = 269.850946 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.553 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	12350.30	4372.89	----------	----------	1
2	25.0000	31107.54	10320.93	----------	----------	1
3	100.0000	109732.87	36253.97	----------	----------	1
4	250.0000	221062.46	70503.76	----------	----------	1
5	500.0000	452676.06	145739.47	----------	----------	1
6	750.0000	623720.92	203070.26	----------	----------	1
7	1000.0000	797697.07	256159.36	----------	----------	1

Average Calibration Factor = 999.369600 (%RSD = 18.99)

PCB1254#5
Component Type : Single Peak Component
Retention Time : 14.760 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	315795.57	81667.74	----------	----------	1

Average Calibration Factor = 1263.182284 (%RSD = 0.00)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 15.240 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	14028.90	4428.91	----------	----------	1
2	25.0000	35536.76	10752.30	----------	----------	1
3	100.0000	138314.53	39473.52	----------	----------	1
4	250.0000	288739.04	81560.71	----------	----------	1
5	500.0000	608979.93	172418.71	----------	----------	1
6	750.0000	810471.14	229045.40	----------	----------	1
7	1000.0000	1062506.99	294746.87	----------	----------	1

Average Calibration Factor = 1246.222448 (%RSD = 12.44)

PCB1260#3

Component Type : Single Peak Component
Retention Time : 15.641 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8007.17	2820.00	----------	----------	1
2	25.0000	21696.40	7049.76	----------	----------	1
3	100.0000	70873.85	24131.10	----------	----------	1
4	250.0000	145056.98	48529.42	----------	----------	1
5	500.0000	300194.68	101180.23	----------	----------	1
6	750.0000	407718.04	136862.44	----------	----------	1
7	1000.0000	536022.82	174859.76	----------	----------	1

Average Calibration Factor = 662.510863 (%RSD = 19.89)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 16.214 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8041.75	2877.18	----------	----------	1
2	25.0000	20879.10	7213.17	----------	----------	1
3	100.0000	81392.81	26721.22	----------	----------	1
4	250.0000	155034.61	52493.41	----------	----------	1
5	500.0000	328797.96	109927.59	----------	----------	1
6	750.0000	448339.95	147303.78	----------	----------	1
7	1000.0000	597963.88	190729.05	----------	----------	1

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Average Calibration Factor = 703.821646 (%RSD = 15.46)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 16.868 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18564.66	6110.25	----------	----------	1
2	25.0000	44440.74	14335.96	----------	----------	1
3	100.0000	157995.84	50903.75	----------	----------	1
4	250.0000	308469.04	97683.44	----------	----------	1
5	500.0000	656040.32	210395.23	----------	----------	1
6	750.0000	888359.67	284652.21	----------	----------	1
7	1000.0000	1158260.50	369299.56	----------	----------	1

Average Calibration Factor = 1443.250147 (%RSD = 20.21)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	60992.79	20609.22	----------	----------	1
2	25.0000	153660.53	49672.11	----------	----------	1
3	100.0000	558309.91	177483.56	----------	----------	1
4	250.0000	1118362.14	350770.74	----------	----------	1
5	500.0000	2346688.94	739661.23	----------	----------	1
6	750.0000	3178609.72	1.00e+06	----------	----------	1
7	1000.0000	4152451.27	1.29e+06	----------	----------	1

Average Calibration Factor = 5055.174703 (%RSD = 17.15)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.629 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	248072.50	79341.13	----------	----------	1
4	50.0000	454140.18	145920.11	----------	----------	1
5	100.0000	942227.25	315397.53	----------	----------	1
6	150.0000	1238324.01	413950.45	----------	----------	1
7	200.0000	1590011.58	530466.47	----------	----------	1

Average Calibration Factor = 9422.850445 (%RSD = 18.78)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
417535.59	107450.20	20.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
865412.65	211766.74	50.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1756542.62	435806.13	100.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52464.74	13582.34	2.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117079.49	29448.58	5.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2585454.41	659761.68	150.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3182766.70	813803.41	200.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4735.19	1251.45	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11128.56	2874.03	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45281.46	11566.31	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106694.40	24486.31	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209246.24	50402.41	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
320567.07	76513.02	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
380135.03	93279.33	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7668.52	2232.86	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16742.59	5017.95	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63015.84	18897.08	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133617.15	38017.65	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
266742.73	77706.09	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
395517.18	113297.48	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
472919.78	136992.42	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18781.51	3731.55	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41840.17	8393.44	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160277.06	32380.92	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
351234.46	67806.22	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
714949.37	142763.92	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1043320.26	209216.94	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1277925.05	259941.94	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Aroclor-1016

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40898.63	10192.48	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92981.59	23206.82	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
361843.73	90503.77	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
815999.70	190274.45	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1655422.24	393511.29	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2441838.47	584999.28	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2971760.27	721325.81	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3988.25	1217.31	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9520.44	2767.99	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38328.43	11446.84	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109849.59	26986.54	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229947.63	52103.82	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
341650.43	81672.86	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
423281.08	102751.40	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5725.17	1759.30	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13749.82	4153.41	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54940.94	16212.62	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114604.11	32977.73	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234536.26	70535.06	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
340783.52	104298.99	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
417499.33	128360.72	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
247258.62	71932.91	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
338487.07	91477.10	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205630.99	59242.22	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67462.74	17633.06	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12350.30	4372.89	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31107.54	10320.93	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109732.87	36253.97	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
221062.46	70503.76	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
452676.06	145739.47	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
623720.92	203070.26	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
797697.07	256159.36	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
315795.57	81667.74	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14028.90	4428.91	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35536.76	10752.30	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
138314.53	39473.52	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
288739.04	81560.71	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
608979.93	172418.71	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
810471.14	229045.40	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1062506.99	294746.87	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8007.17	2820.00	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21696.40	7049.76	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70873.85	24131.10	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
145056.98	48529.42	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
300194.68	101180.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
407718.04	136862.44	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
536022.82	174859.76	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8041.75	2877.18	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20879.10	7213.17	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81392.81	26721.22	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
155034.61	52493.41	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
328797.96	109927.59	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
448339.95	147303.78	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
597963.88	190729.05	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18564.66	6110.25	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44440.74	14335.96	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157995.84	50903.75	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
308469.04	97683.44	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
656040.32	210395.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
888359.67	284652.21	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1158260.50	369299.56	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60992.79	20609.22	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153660.53	49672.11	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
558309.91	177483.56	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1118362.14	350770.74	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2346688.94	739661.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3178609.72	1.00093e+006	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4152451.27	1.28579e+006	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
248072.50	79341.13	20.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
454140.18	145920.11	50.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
942227.25	315397.53	100.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1238324.01	413950.45	150.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1590011.58	530466.47	200.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: /mcw 11/15/04
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	316_009	204456284009	pcb10_2	11-NOV-2004 20:44	04WS1786
2	316_010	204456284010	pcb25_5	11-NOV-2004 21:18	04WS1787
3	316_011	204456284011	pcb100_20	11-NOV-2004 21:51	04WS1788
4	316_012	204456284012	pcb250_50	11-NOV-2004 22:24	04WS1789
5	316_013	204456284013	pcb500_100	11-NOV-2004 22:57	04WS1790
6	316_014	204456284014	pcb750_150	11-NOV-2004 23:30	04WS1791
7	316_015	204456284015	pcb1k_200	12-NOV-2004 00:04	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	261.48	241.89	254.35	221.65	239.37	241.18	224.28	AVRG	R		0.004156		pg	240.60	6	.99	20	
Aroclor-1016 Peak # 2	A	533.49	499.25	525.72	415.19	433.65	428.19	393.83	AVRG	R		0.002168		pg	461.33	12	.99	20	
Aroclor-1016 Peak # 3	A	564.73	533.69	549.22	458.79	502.50	495.49	465.89	AVRG	R		0.001961		pg	510.05	8	.99	20	
Aroclor-1016 Peak # 4	A	242.53	237.94	243.00	205.66	232.89	231.63	220.30	AVRG	R		0.004337		pg	230.56	6	.99	20	
Aroclor-1016 Peak # 5	A	103.40	209.91	187.31	156.99	172.29	171.77	160.49	AVRG	R		0.006023		pg	166.02	20	.99	20	
Aroclor-1260 Peak # 1	A	268.40	246.51	258.02	213.38	233.79	224.81	212.27	AVRG	R		0.004224		pg	236.74	9	.99	20	
Aroclor-1260 Peak # 2	A	376.99	357.86	338.29	277.22	313.06	301.86	290.13	AVRG	R		0.003104		pg	322.20	11	.99	20	
Aroclor-1260 Peak # 3	A	420.08	413.71	429.64	344.80	377.40	351.04	334.25	AVRG	R		0.002621		pg	381.56	10	.99	20	
Aroclor-1260 Peak # 4	A	599.44	404.88	489.66	374.38	418.02	388.99	373.66	AVRG	R		0.002296		pg	435.58	19	.99	20	
Aroclor-1260 Peak # 5	A	1155.8	1092.0	994.64	771.29	859.63	789.20	759.96	AVRG	R		0.001090		pg	917.50	18	.99	20	
TCMX	A	13516	12108	11529	9793.1	10589	10651	10004	AVRG	R		8.953E-5		pg	11170	12	.99	20	
Decachlorobiphenyl	A			10187	7756.8	8364.6	7334.6	7076.3	AVRG	R		1.228E-4		pg	8143.9	15	.99	20	
Aroclor-1016 Peak # 1	B	473.52	445.14	452.81	426.78	418.49	427.42	380.14	AVRG	R		0.002315		pg	432.04	7	.99	20	
Aroclor-1016 Peak # 2	B	766.85	669.70	630.16	534.47	533.49	527.36	472.92	AVRG	R		0.001693		pg	590.71	17	.99	20	
Aroclor-1016 Peak # 3	B	1878.2	1673.6	1602.8	1404.9	1429.9	1391.1	1277.9	AVRG	R		6.568E-4		pg	1522.6	14	.99	20	
Aroclor-1016 Peak # 4	B	398.83	380.82	383.28	439.40	459.90	455.53	423.28	AVRG	R		0.002380		pg	420.15	8	.99	20	
Aroclor-1016 Peak # 5	B	572.52	549.99	549.41	458.42	469.07	454.38	417.50	AVRG	R		0.002017		pg	495.90	12	.99	20	
Aroclor-1260 Peak # 1	B	1235.0	1244.3	1097.3	884.25	905.35	831.63	797.70	AVRG	R		0.001001		pg	999.37	19	.99	20	
Aroclor-1260 Peak # 2	B	1402.9	1421.5	1383.1	1155.0	1218.0	1080.6	1062.5	AVRG	R		8.024E-4		pg	1246.2	12	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

11/12/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By:
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	800.72	867.86	708.74	580.23	600.39	543.62	536.02	AVRG	R		0.001509		pg	662.51	20	.99	20	
Aroclor-1260 Peak # 4	B	804.18	835.16	813.93	620.14	657.60	597.79	597.96	AVRG	R		0.001421		pg	703.82	15	.99	20	
Aroclor-1260 Peak # 5	B	1856.5	1777.6	1580.0	1233.9	1312.1	1184.5	1158.3	AVRG	R		6.929E-4		pg	1443.3	20	.99	20	
TCMX	B	26232	23416	20877	17308	17565	17236	15914	AVRG	R		5.052E-5		pg	19793	19	.99	20	
Decachlorobiphenyl	B			12404	9082.8	9422.3	8255.5	7950.1	AVRG	R		1.061E-4		pg	9422.9	19	.99	20	

388

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 11/12/04 12:02:57 PM
Data Acquisition Time : 11/11/04 8:44:53 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a009p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.654	27031.46	1.77	1.0000	1	1.77	0.35
Aroclor-1016	10.864	17056.31	8.09	1.0000	1	8.09	1.62
Aroclor-1254	15.992	26258.57	0.03	1.0000	1	0.03	0.01
Aroclor-1260	18.308	28207.21	5.76	1.0000	1	5.76	1.15
Decachlorobiphenyl	21.644	25482.48	2.08	1.0000	1	2.08	0.42
		124036.04	17.72			17.72	3.54

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.666	2614.76	6.91	1.0000	1	6.91	1.38
PCB1016#2	9.628	5334.92	8.05	1.0000	1	8.05	1.61
PCB1016#3	10.864	5647.33	15.49	1.0000	1	15.49	3.10
PCB1016#4	11.373	2425.29	9.38	1.0000	1	9.38	1.88
PCB1016#5	11.861	1034.02	2.32	1.0000	1	2.32	0.46
		17056.31	42.16			42.16	8.43

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.579	2367.14	3.77	1.0000	1	3.77	0.75
PCB1254#2	13.870	4498.20	6.91	1.0000	1	6.91	1.38
PCB1254#3	14.230	176.01	0.16	1.0000	1	0.16	0.03
PCB1254#4	15.317	6308.27	6.79	1.0000	1	6.79	1.36
PCB1254#5	15.992	12908.95	10.39	1.0000	1	10.39	2.08
		26258.57	28.02			28.02	5.60

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.970	2684.03	3.19	1.0000	1	3.19	0.64
PCB1260#2	16.303	3769.94	6.61	1.0000	1	6.61	1.32
PCB1260#3	16.956	4200.80	4.75	1.0000	1	4.75	0.95
PCB1260#4	17.561	5994.41	8.32	1.0000	1	8.32	1.66
PCB1260#5	18.308	11558.02	6.15	1.0000	1	6.15	1.23
		28207.21	29.02			29.02	5.80

11/12/04

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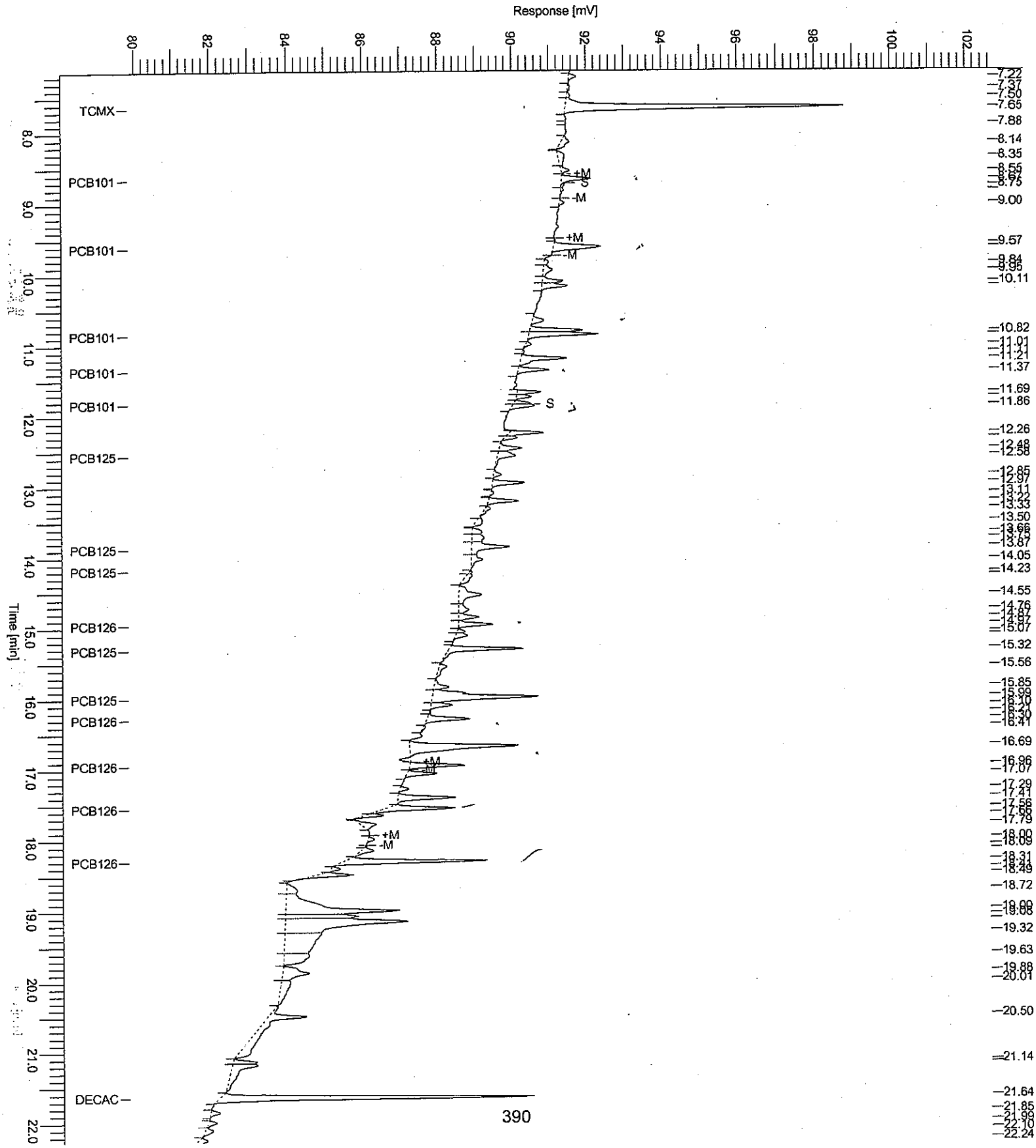
Report stored in ASCII file: G:\gc06\cha\316a009p.TX0

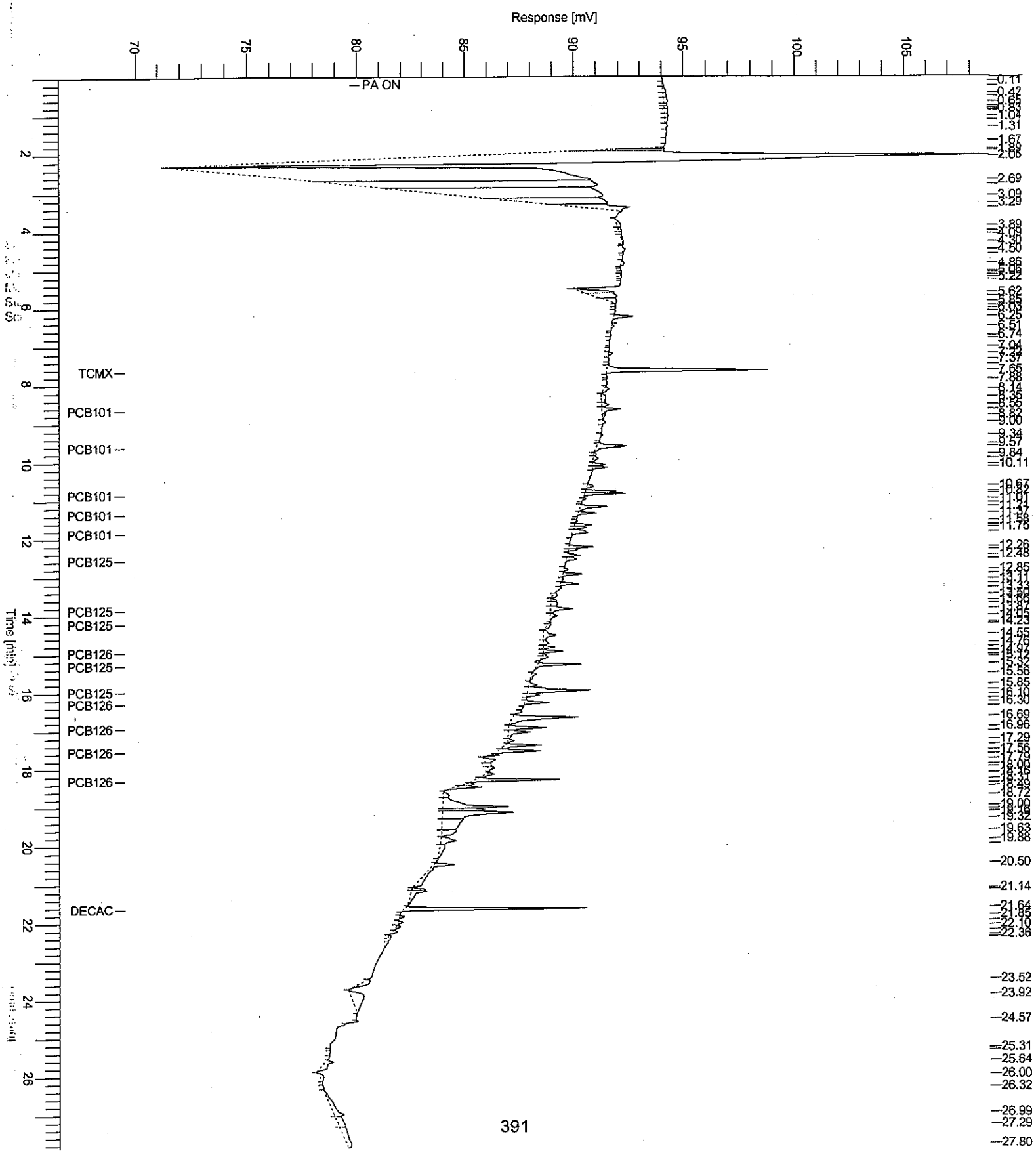
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l
FileName : G:\gc06\CHa\316a009.raw
Date : 11/12/04 12:03:01 PM
Method :
Time of Injection: 11/11/04 8:44:53 PM
Start Time : 7.13 min End Time : 22.27 min Low Point : 79.83 mV High Point : 102.62 mV
Plot Offset: 79.83 mV Plot Scale: 22.8 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a009.raw
Date : 11/12/04 11:27:20 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 8:44:53 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 69.51 mV High Point : 108.80 mV
Scale Factor: 1.0 Plot Offset: 69.51 mV Plot Scale: 39.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 11/12/04 12:47:01 PM
Data Acquisition Time : 11/11/04 8:44:53 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b009p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.473	52464.74	2.35	1.0000	1	2.35	0.47
Aroclor-1016	9.466	40898.63	9.85	1.0000	1	9.85	1.97
Aroclor-1254	14.411	1858.22	0.00	1.0000	1	0.00	0.00
Aroclor-1260	16.871	60992.79	10.22	1.0000	1	10.22	2.04
Decachlorobiphenyl	20.632	33362.23	2.21	1.0000	1	2.21	0.44
		189576.60	24.63			24.63	4.93

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.358	4735.19	10.16	1.0000	1	10.16	2.03
PCB1016#2	8.816	7668.52	12.21	1.0000	1	12.21	2.44
PCB1016#3	9.466	18781.51	9.66	1.0000	1	9.66	1.93
PCB1016#4	9.910	3988.25	8.23	1.0000	1	8.23	1.65
PCB1016#5	10.837	5725.17	9.10	1.0000	1	9.10	1.82
		40898.63	49.36			49.36	9.87

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.632	463.58	0.56	1.0000	1	0.56	0.11
PCB1254#4	14.411	1394.63	5.17	1.0000	1	5.17	1.03
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		1858.22	5.73			5.73	1.15

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.558	12350.30	11.15	1.0000	1	11.15	2.23
PCB1260#2	15.240	14028.90	10.93	1.0000	1	10.93	2.19
PCB1260#3	15.642	8007.17	9.60	1.0000	1	9.60	1.92
PCB1260#4	16.214	8041.75	9.65	1.0000	1	9.65	1.93
PCB1260#5	16.871	18564.66	9.72	1.0000	1	9.72	1.94
		60992.79	51.05			51.05	10.21

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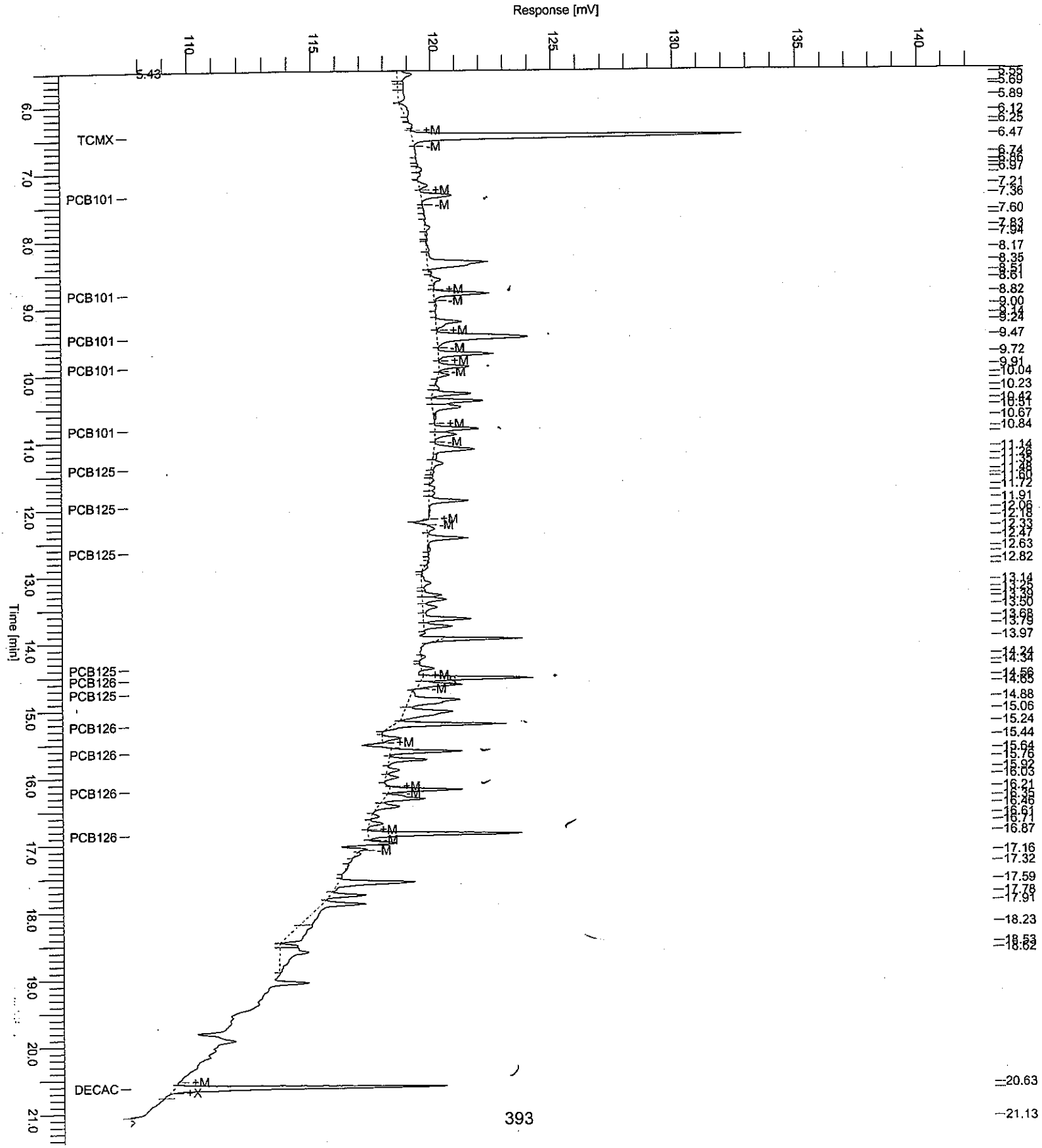
Report stored in ASCII file: G:\gc06\chb\316b009p.TX0

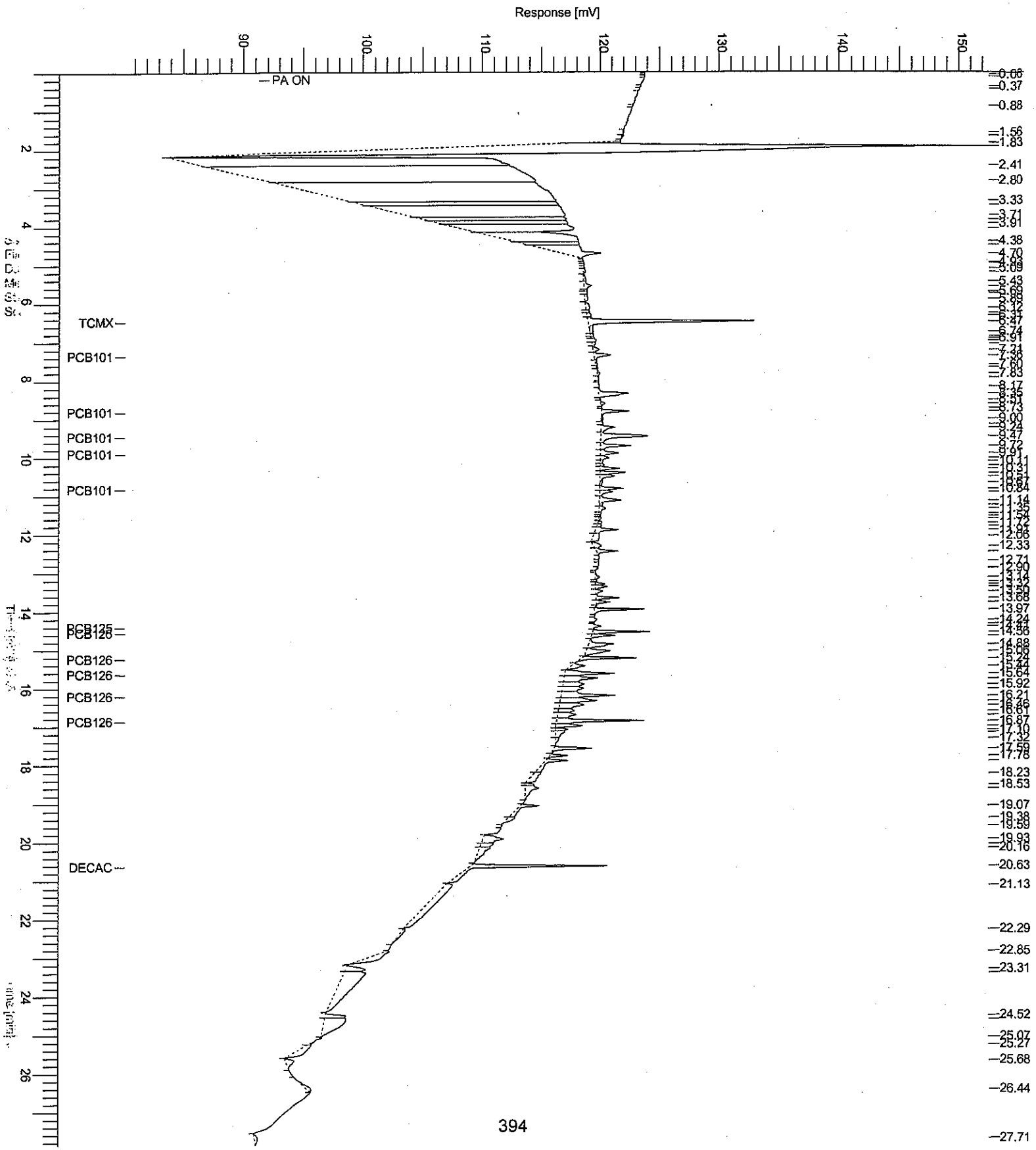
GC 06 Rtx-5

ample Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHb\316b009.raw
ate : 11/12/04 12:47:06 PM
lethod :
Time of Injection: 11/11/04 8:44:53 PM
tart Time : 5.49 min Ehd Time : 21.44 min Low Point : 107.56 mV High Point : 142.96 mV
lot Offset: 107.56 mV Plot Scale: 35.4 mV



GC 06 Rtx-5

Sample Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b009
Date : 11/12/04 11:28:04 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 8:44:53 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 80.15 mV High Point : 152.56 mV
Scale Factor: 1.0 Plot Offset: 80.15 mV Plot Scale: 72.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/10
Sample Amount : 1.000000
Cycle : 10

Date : 11/12/04 12:03:40 PM
Data Acquisition Time : 11/11/04 9:18:06 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a010p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	60541.64	3.96	1.0000	1	3.96	0.79
Aroclor-1016	10.862	43066.96	20.42	1.0000	1	20.42	4.08
Aroclor-1254	15.991	54838.21	0.05	1.0000	1	0.05	0.01
Aroclor-1260	18.306	62873.33	12.84	1.0000	1	12.84	2.57
Decachlorobiphenyl	21.642	58464.34	4.77	1.0000	1	4.77	0.95
		279784.48	42.05			42.05	8.41

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.665	6047.28	15.99	1.0000	1	15.99	3.20
PCB1016#2	9.627	12481.31	18.84	1.0000	1	18.84	3.77
PCB1016#3	10.862	13342.29	36.59	1.0000	1	36.59	7.32
PCB1016#4	11.371	5948.41	23.01	1.0000	1	23.01	4.60
PCB1016#5	11.840	5247.68	11.79	1.0000	1	11.79	2.36
		43066.96	106.22			106.22	21.24

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.578	4340.14	6.91	1.0000	1	6.91	1.38
PCB1254#2	13.869	9537.14	14.65	1.0000	1	14.65	2.93
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.312	15455.10	16.64	1.0000	1	16.64	3.33
PCB1254#5	15.991	25505.83	20.54	1.0000	1	20.54	4.11
		54838.21	58.73			58.73	11.75

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.968	6162.67	7.33	1.0000	1	7.33	1.47
PCB1260#2	16.301	8946.58	15.70	1.0000	1	15.70	3.14
PCB1260#3	16.955	10342.79	11.69	1.0000	1	11.69	2.34
PCB1260#4	17.558	10121.95	14.04	1.0000	1	14.04	2.81
PCB1260#5	18.306	27299.34	14.53	1.0000	1	14.53	2.91
		62873.33	63.29			63.29	12.66

11/12/04

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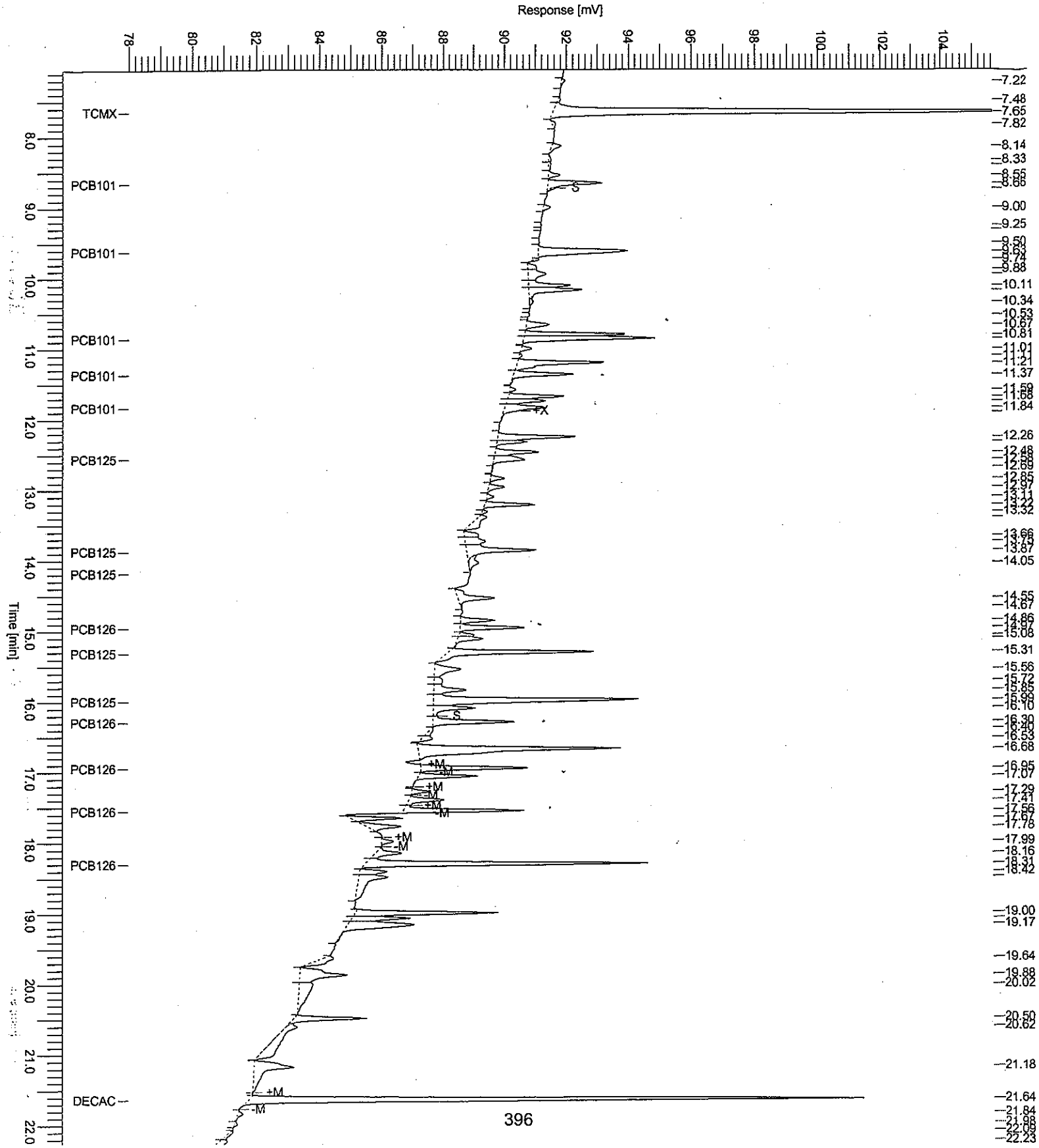
Report stored in ASCII file: G:\gc06\cha\316a010p.TX0

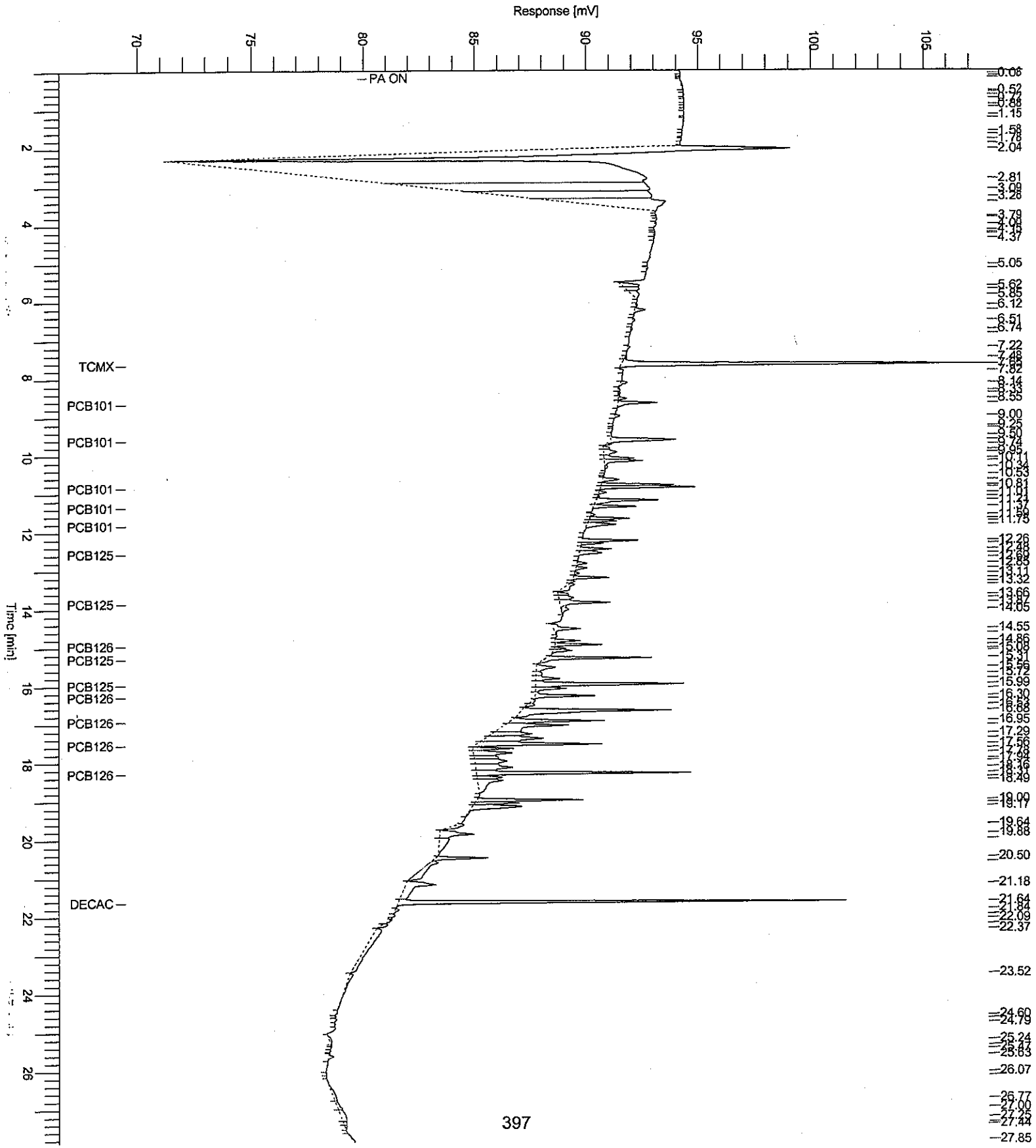
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a010.raw
Date : 11/12/04 12:03:44 PM
Method :
Time of Injection: 11/11/04 9:18:06 PM
Start Time : 7.05 min End Time : 22.27 min Low Point : 77.98 mV High Point : 105.63 mV
Plot Offset: 77.98 mV Plot Scale: 27.7 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a010.raw
Date : 11/12/04 11:27:25 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 9:18:06 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 69.50 mV High Point : 107.86 mV
Scale Factor: 1.0 Plot Offset: 69.50 mV Plot Scale: 38.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/10
Sample Amount : 1.000000
Cycle : 10

Date : 11/12/04 12:22:13 PM
Data Acquisition Time : 11/11/04 9:18:06 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b010p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.473	117079.49	5.25	1.0000	1	5.25	1.05
Aroclor-1016	9.465	92981.59	22.39	1.0000	1	22.39	4.48
Aroclor-1254	14.410	4110.77	0.00	1.0000	1	0.00	0.00
Aroclor-1260	16.869	153660.53	25.75	1.0000	1	25.75	5.15
Decachlorobiphenyl	20.631	75156.96	4.98	1.0000	1	4.98	1.00
		442989.34	58.36			58.36	11.67

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.354	11128.56	23.88	1.0000	1	23.88	4.78
PCB1016#2	8.815	16742.59	26.66	1.0000	1	26.66	5.33
PCB1016#3	9.465	41840.17	21.52	1.0000	1	21.52	4.30
PCB1016#4	9.909	9520.44	19.65	1.0000	1	19.65	3.93
PCB1016#5	10.833	13749.82	21.84	1.0000	1	21.84	4.37
		92981.59	113.55			113.55	22.71

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.457	156.02	0.16	1.0000	1	0.16	0.03
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.410	3954.75	14.66	1.0000	1	14.66	2.93
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		4110.77	14.81			14.81	2.96

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.557	31107.54	28.09	1.0000	1	28.09	5.62
PCB1260#2	15.240	35536.76	27.69	1.0000	1	27.69	5.54
PCB1260#3	15.641	21696.40	26.02	1.0000	1	26.02	5.20
PCB1260#4	16.214	20879.10	25.06	1.0000	1	25.06	5.01
PCB1260#5	16.869	44440.74	23.26	1.0000	1	23.26	4.65
		153660.53	130.12			130.12	26.02

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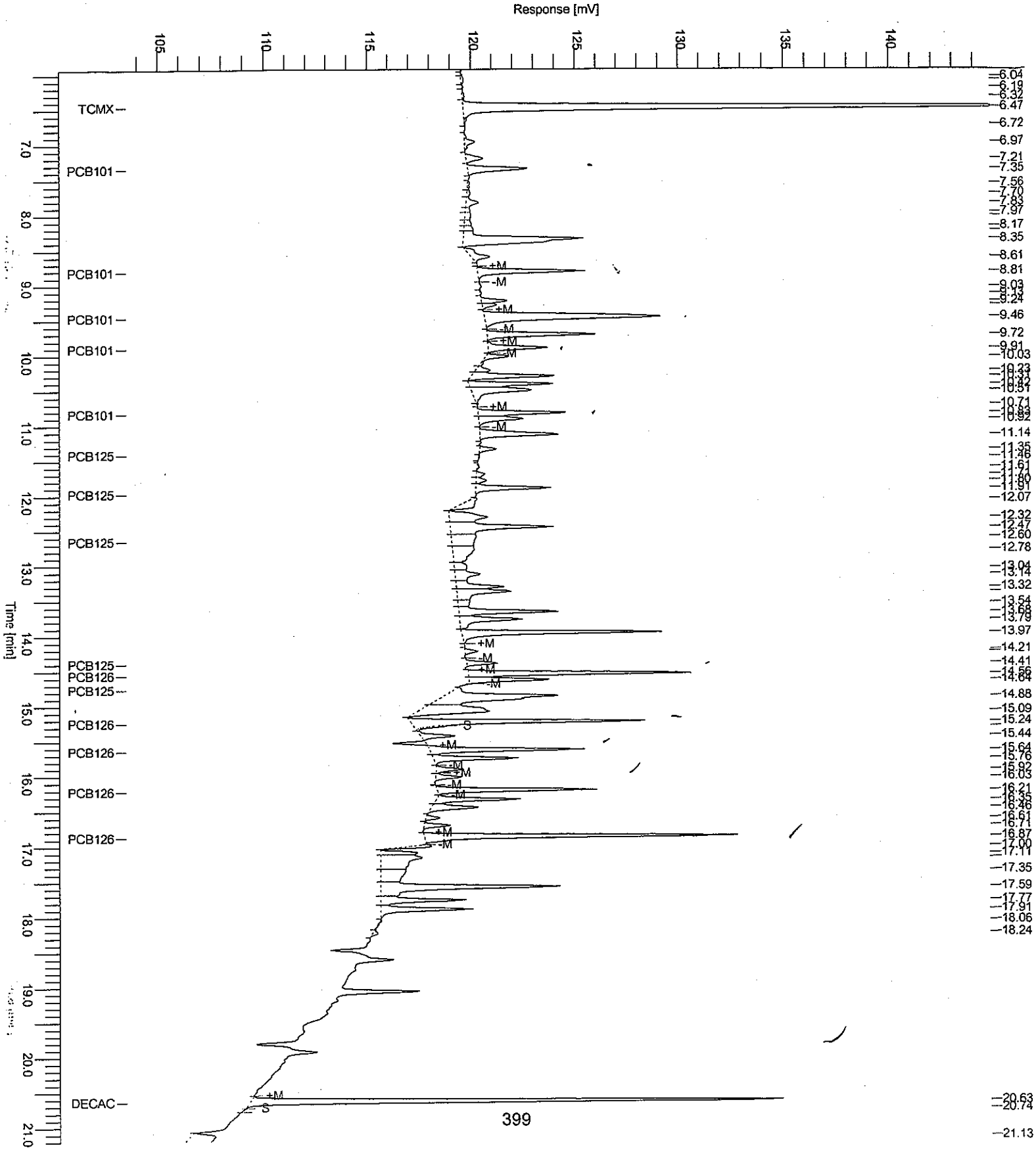
Report stored in ASCII file: G:\gc06\chb\316b010p.TX0

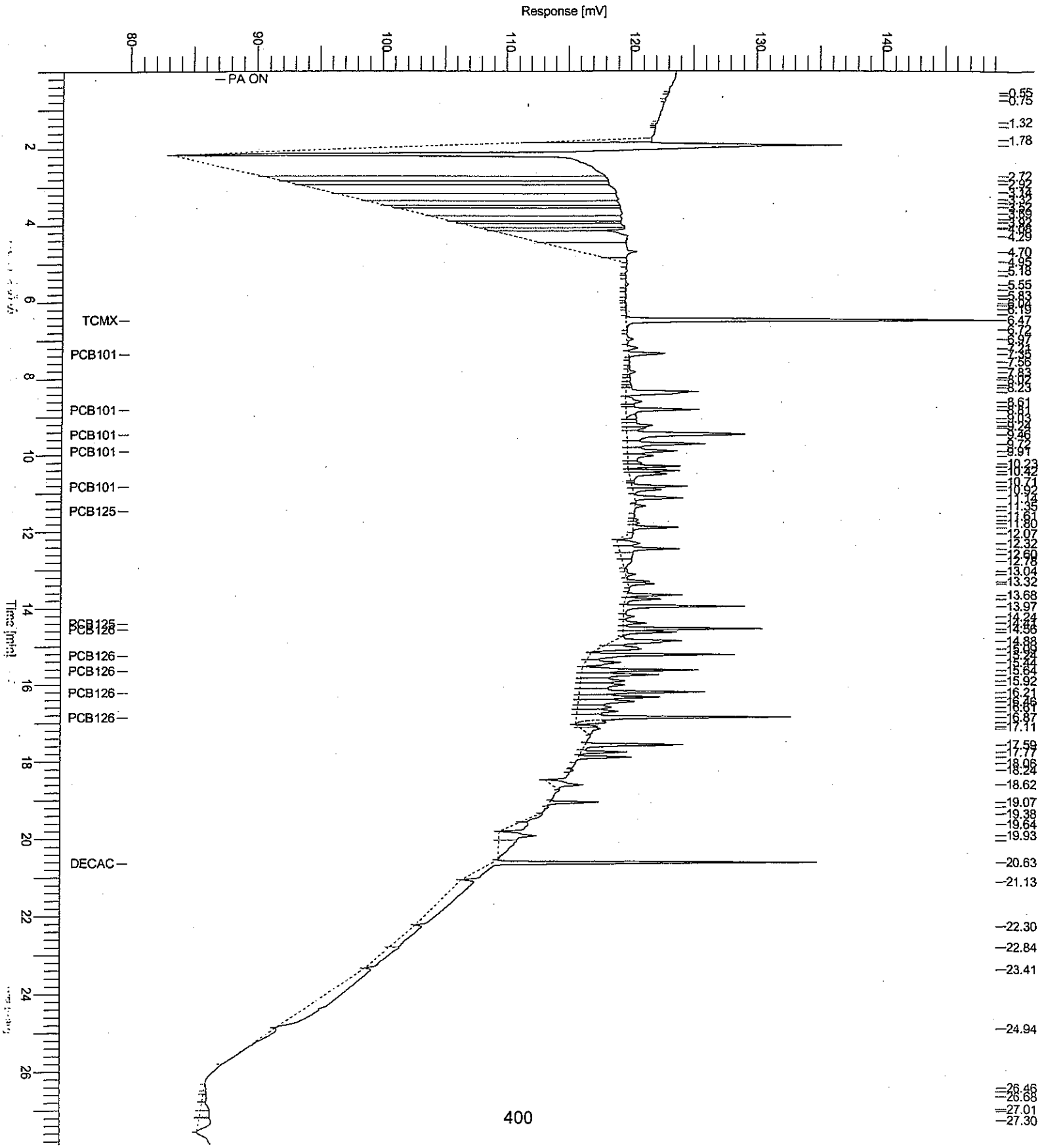
GC 06 Rtx-5

Sample Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b010.raw
Date : 11/12/04 12:22:19 PM
Method :
Time of Injection: 11/11/04 9:18:06 PM
Start Time : 5.93 min End Time : 21.21 min Low Point : 103.49 mV High Point : 144.85 mV
Plot Offset: 103.49 mV Plot Scale: 41.4 mV



GC 06 Rtx-5

Sample Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b010
Date : 11/12/04 11:28:10 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 9:18:06 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 79.91 mV High Point : 149.25 mV
Scale Factor: 1.0 Plot Offset: 79.91 mV Plot Scale: 69.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 11/12/04 12:04:35 PM
Data Acquisition Time : 11/11/04 9:51:26 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a011p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.654	230576.05	15.10	1.0000	1	15.10	3.02
Aroclor-1016	10.863	175960.19	83.43	1.0000	1	83.43	16.69
Aroclor-1254	15.993	190343.82	0.19	1.0000	1	0.19	0.04
Aroclor-1260	18.308	251024.29	51.28	1.0000	1	51.28	10.26
Decachlorobiphenyl	21.643	203741.21	16.62	1.0000	1	16.62	3.32
		1051645.57	166.62			166.62	33.32

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.665	25435.36	67.25	1.0000	1	67.25	13.45
PCB1016#2	9.628	52571.61	79.35	1.0000	1	79.35	15.87
PCB1016#3	10.863	54922.03	150.63	1.0000	1	150.63	30.13
PCB1016#4	11.372	24300.30	93.99	1.0000	1	93.99	18.80
PCB1016#5	11.841	18730.89	42.08	1.0000	1	42.08	8.42
		175960.19	433.30			433.30	86.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.579	17996.13	28.63	1.0000	1	28.63	5.73
PCB1254#2	13.871	27650.58	42.47	1.0000	1	42.47	8.49
PCB1254#3	14.221	1044.78	0.93	1.0000	1	0.93	0.19
PCB1254#4	15.316	53815.69	57.95	1.0000	1	57.95	11.59
PCB1254#5	15.993	89836.64	72.33	1.0000	1	72.33	14.47
		190343.82	202.32			202.32	40.46

11/12/04

Group Report For : Aroclor-1260

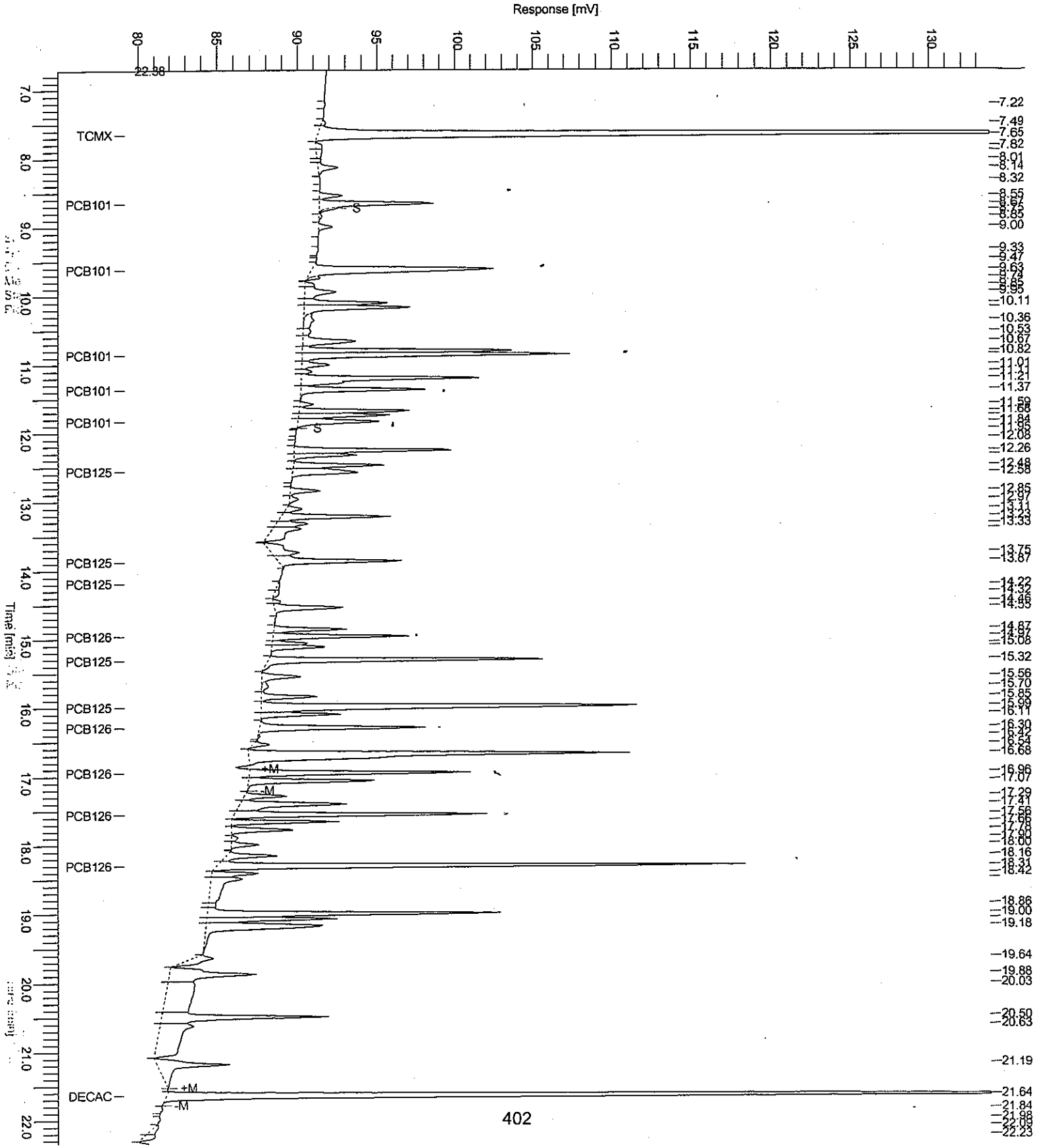
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.970	25801.69	30.68	1.0000	1	30.68	6.14
PCB1260#2	16.303	33829.17	59.35	1.0000	1	59.35	11.87
PCB1260#3	16.956	42964.13	48.57	1.0000	1	48.57	9.71
PCB1260#4	17.561	48965.52	67.94	1.0000	1	67.94	13.59
PCB1260#5	18.308	99463.79	52.93	1.0000	1	52.93	10.59
		251024.29	259.48			259.48	51.90

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\316a011p.TX0

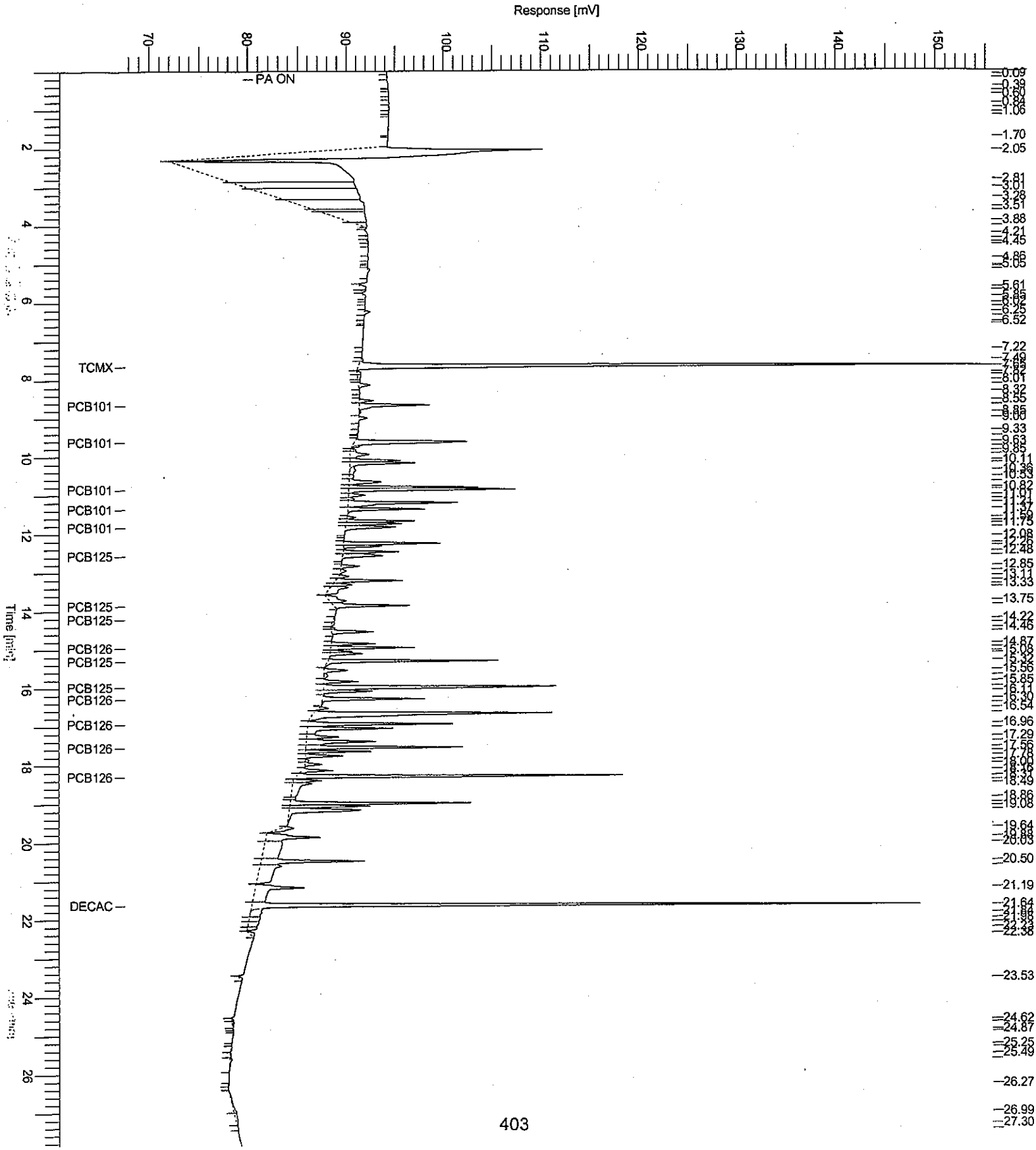
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a011.raw
Date : 11/12/04 12:04:41 PM
Method :
Time of Injection: 11/11/04 9:51:26 PM
Start Time : 6.72 min End Time : 22.35 min Low Point : 79.16 mV High Point : 133.83 mV
Plot Offset: 79.16 mV Plot Scale: 54.7 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a011.raw
Date : 11/12/04 11:27:31 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 9:51:26 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 67.70 mV High Point : 155.69 mV
Scale Factor: 1.0 Plot Offset: 67.70 mV Plot Scale: 88.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 11/12/04 12:43:14 PM
Data Acquisition Time : 11/11/04 9:51:26 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b011p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	417535.59	18.71	1.0000	1	18.71	3.74
Aroclor-1016	9.464	361843.73	87.14	1.0000	1	87.14	17.43
Aroclor-1254	14.411	16205.71	0.02	1.0000	1	0.02	0.00
Aroclor-1260	16.867	558309.91	93.54	1.0000	1	93.54	18.71
Decachlorobiphenyl	20.627	248072.50	16.43	1.0000	1	16.43	3.29
		1601967.43	215.84			215.84	43.17

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.354	45281.46	97.16	1.0000	1	97.16	19.43
PCB1016#2	8.815	63015.84	100.35	1.0000	1	100.35	20.07
PCB1016#3	9.464	160277.06	82.43	1.0000	1	82.43	16.49
PCB1016#4	9.909	38328.43	79.11	1.0000	1	79.11	15.82
PCB1016#5	10.836	54940.94	87.28	1.0000	1	87.28	17.46
		361843.73	446.34			446.34	89.27

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.411	16205.71	60.05	1.0000	1	60.05	12.01
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		16205.71	60.05			60.05	12.01

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.558	109732.87	99.08	1.0000	1	99.08	19.82
PCB1260#2	15.241	138314.53	107.77	1.0000	1	107.77	21.55
PCB1260#3	15.642	70873.85	85.00	1.0000	1	85.00	17.00
PCB1260#4	16.215	81392.81	97.68	1.0000	1	97.68	19.54
PCB1260#5	16.867	157995.84	82.70	1.0000	1	82.70	16.54
		558309.91	472.23			472.23	94.45

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\316b011p.TX0

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 11/12/04 11:35:29 AM
Data Acquisition Time : 11/11/04 10:24:39 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a012p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	489654.36	32.06	1.0000	1	32.06	6.41
Aroclor-1016	10.862	364574.32	172.86	1.0000	1	172.86	34.57
Aroclor-1254	15.991	383622.69	0.38	1.0000	1	0.38	0.08
Aroclor-1260	18.306	495264.78	101.17	1.0000	1	101.17	20.23
Decachlorobiphenyl	21.640	387840.94	31.63	1.0000	1	31.63	6.33
		2120957.09	338.11			338.11	67.62

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.664	55413.64	146.52	1.0000	1	146.52	29.30
PCB1016#2	9.626	103798.14	156.67	1.0000	1	156.67	31.33
PCB1016#3	10.862	114698.09	314.57	1.0000	1	314.57	62.91
PCB1016#4	11.371	51416.21	198.88	1.0000	1	198.88	39.78
PCB1016#5	11.839	39248.24	88.18	1.0000	1	88.18	17.64
		364574.32	904.80			904.80	180.96

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.578	39529.90	62.89	1.0000	1	62.89	12.58
PCB1254#2	13.869	53478.91	82.15	1.0000	1	82.15	16.43
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.310	114875.94	123.71	1.0000	1	123.71	24.74
PCB1254#5	15.991	175737.94	141.49	1.0000	1	141.49	28.30
		383622.69	410.24			410.24	82.05

11/12/04

Group Report For : Aroclor-1260

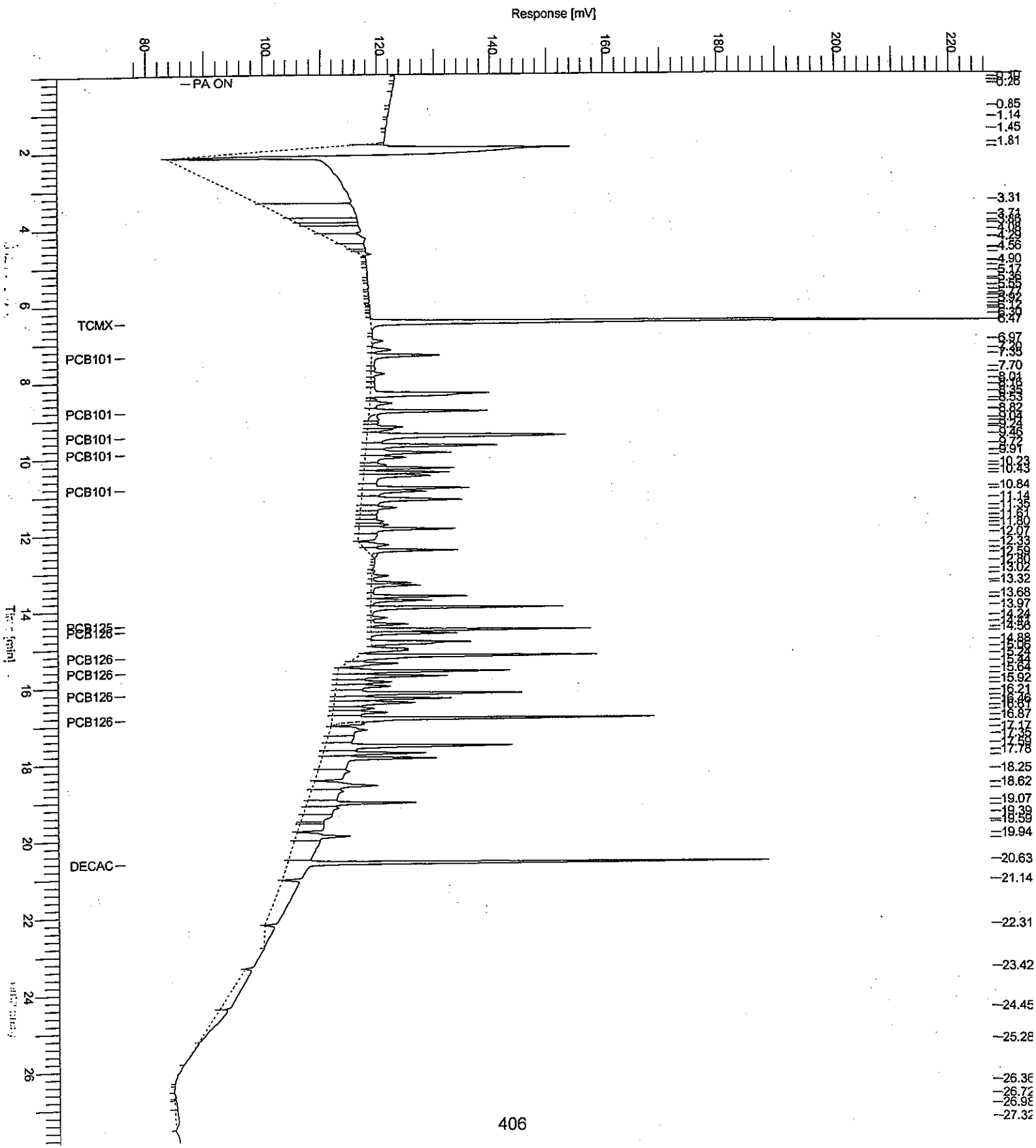
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.965	53344.18	63.44	1.0000	1	63.44	12.69
PCB1260#2	16.298	69304.46	121.58	1.0000	1	121.58	24.32
PCB1260#3	16.952	86198.85	97.44	1.0000	1	97.44	19.49
PCB1260#4	17.559	93595.94	129.87	1.0000	1	129.87	25.97
PCB1260#5	18.306	192821.34	102.62	1.0000	1	102.62	20.52
		495264.78	514.95			514.95	102.99

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\316a012p.TX0

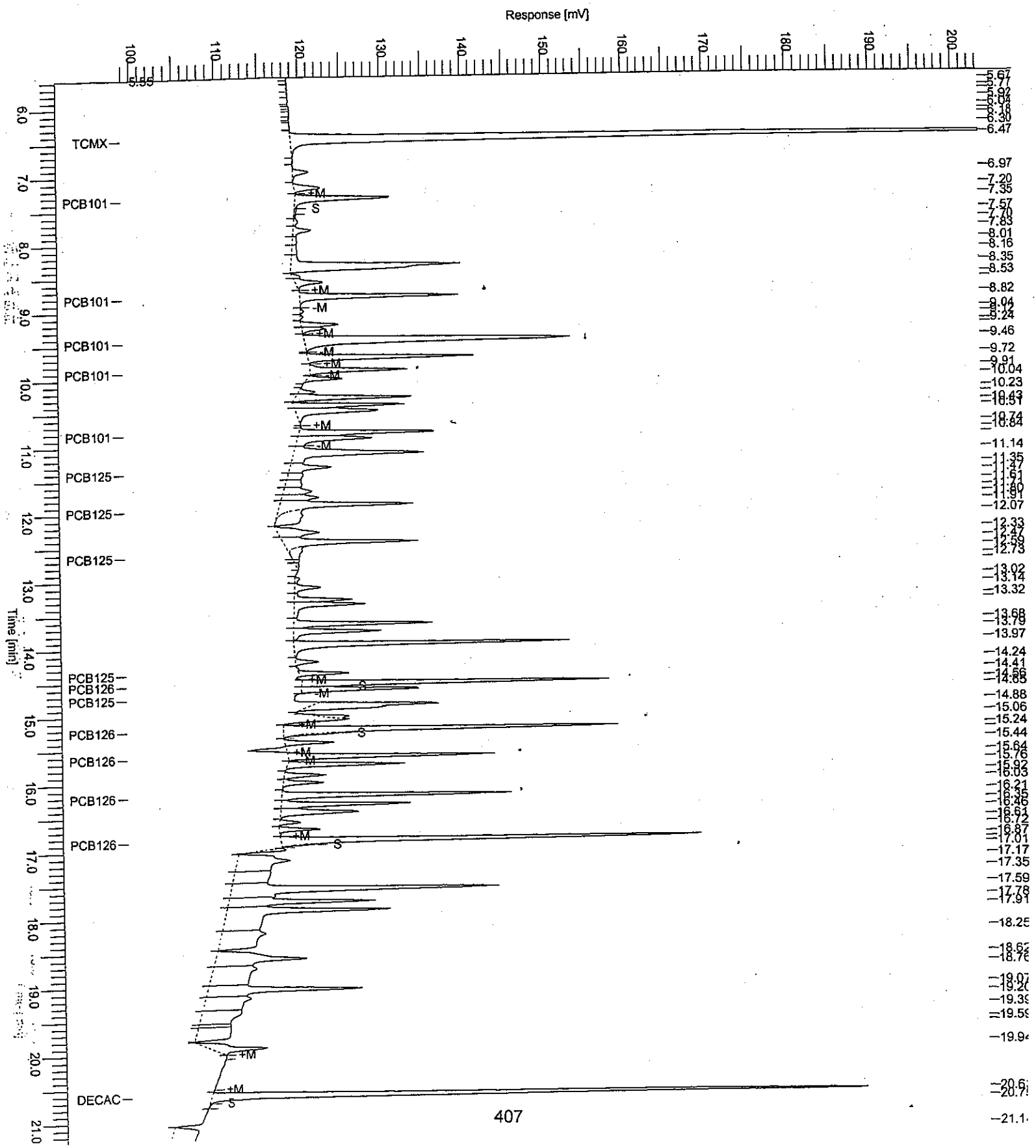
GC 06 Rtx-5

Sample Name : lcal,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b011
Date : 11/12/04 11:28:15 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 9:51:26 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 76.43 mV High Point : 226.56 mV
Scale Factor: 1.0 Plot Offset: 76.43 mV Plot Scale: 150.1 mV



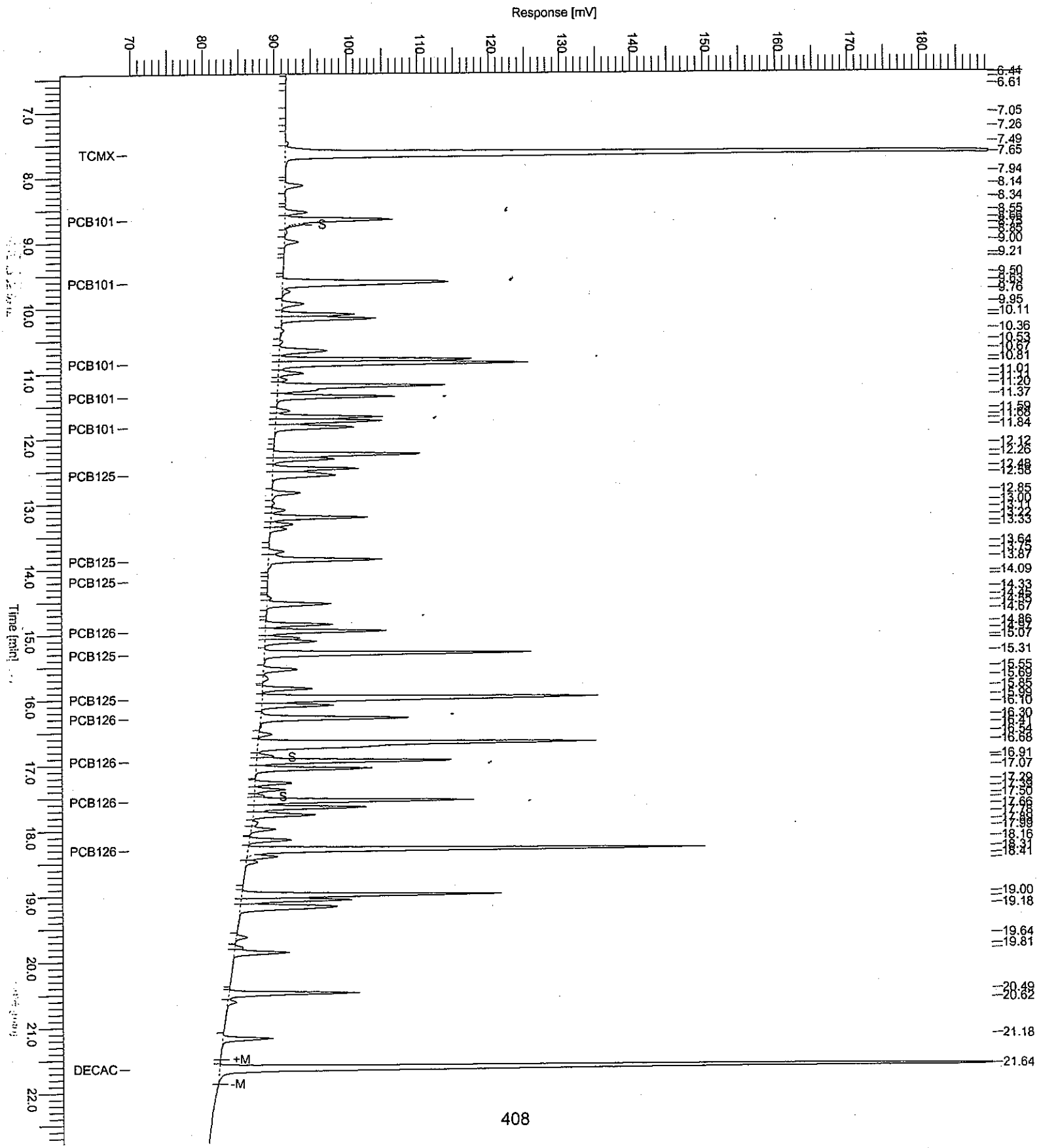
GC 06 Rtx-5

ample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\CHb\316b011.raw
ate : 11/12/04 12:43:20 PM
ethod :
Time of Injection: 11/11/04 9:51:26 PM
tart Time : 5.57 min End Time : 21.28 min Low Point : 98.87 mV High Point : 203.33 mV
lot Offset: 98.87 mV Plot Scale: 104.5 mV



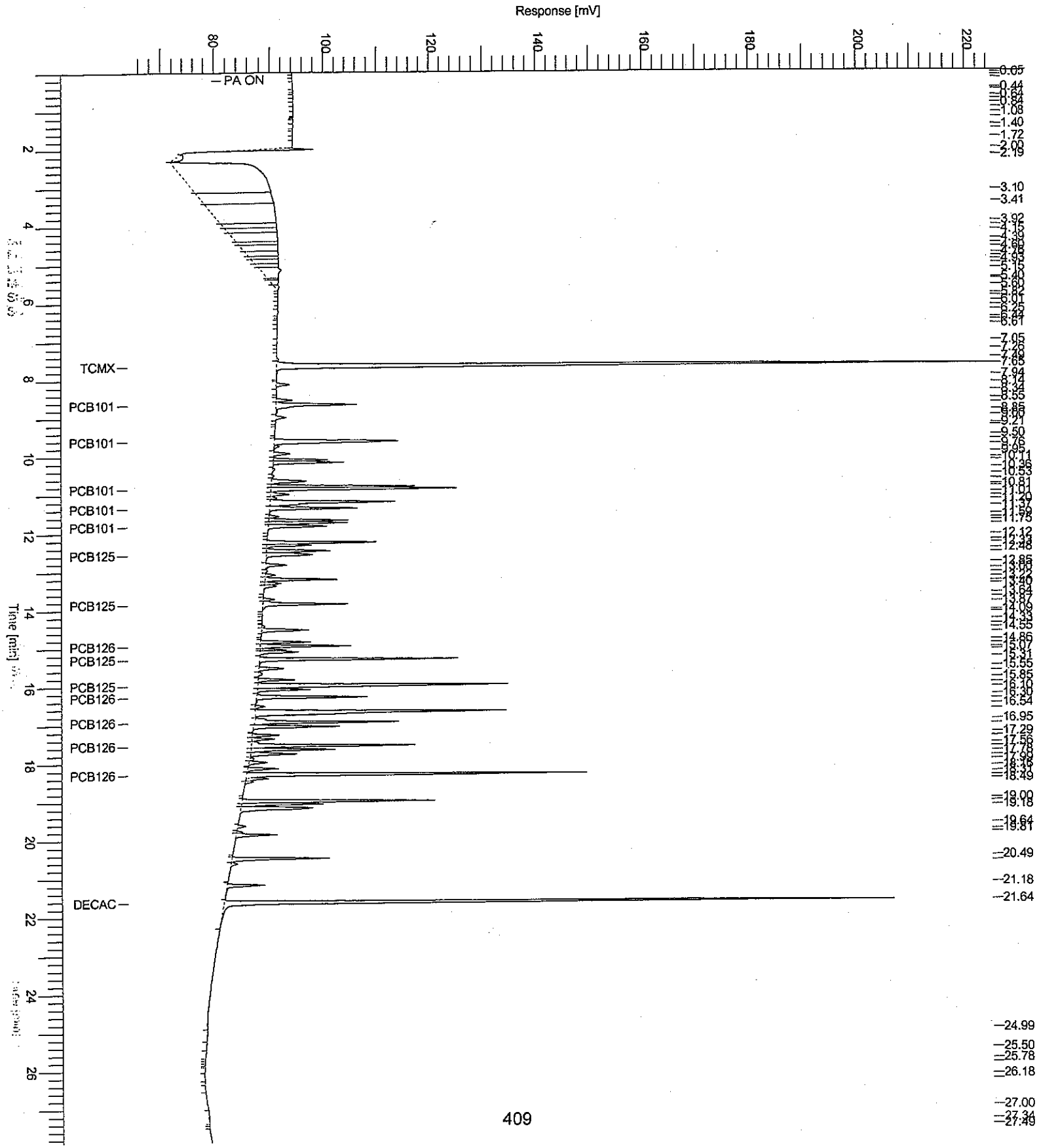
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a012.raw
Date : 11/12/04 11:35:34 AM
Method :
Time of Injection: 11/11/04 10:24:39 PM
Start Time : 6.43 min End Time : 22.79 min Low Point : 69.53 mV High Point : 189.35 mV
Plot Offset: 69.53 mV Plot Scale: 119.8 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a012.raw
Date : 11/12/04 11:27:36 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 10:24:39 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 64.18 mV High Point : 224.86 mV
Scale Factor: 1.0 Plot Offset: 64.18 mV Plot Scale: 160.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 11/12/04 11:48:35 AM
Data Acquisition Time : 11/11/04 10:24:39 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b012p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	865412.65	38.77	1.0000	1	38.77	7.75
Aroclor-1016	9.467	815999.70	196.52	1.0000	1	196.52	39.30
Aroclor-1254	14.410	40968.22	0.04	1.0000	1	0.04	0.01
Aroclor-1260	16.867	1118362.14	187.38	1.0000	1	187.38	37.48
Decachlorobiphenyl	20.627	454140.18	30.07	1.0000	1	30.07	6.01
		3294882.88	452.78			452.78	90.56

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.354	106694.40	228.94	1.0000	1	228.94	45.79
PCB1016#2	8.815	133617.15	212.78	1.0000	1	212.78	42.56
PCB1016#3	9.467	351234.46	180.64	1.0000	1	180.64	36.13
PCB1016#4	9.908	109849.59	226.72	1.0000	1	226.72	45.34
PCB1016#5	10.833	114604.11	182.07	1.0000	1	182.07	36.41
		815999.70	1031.15			1031.15	206.23

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.410	40968.22	151.82	1.0000	1	151.82	30.36
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		40968.22	151.82			151.82	30.36

Group Report For : Aroclor-1260

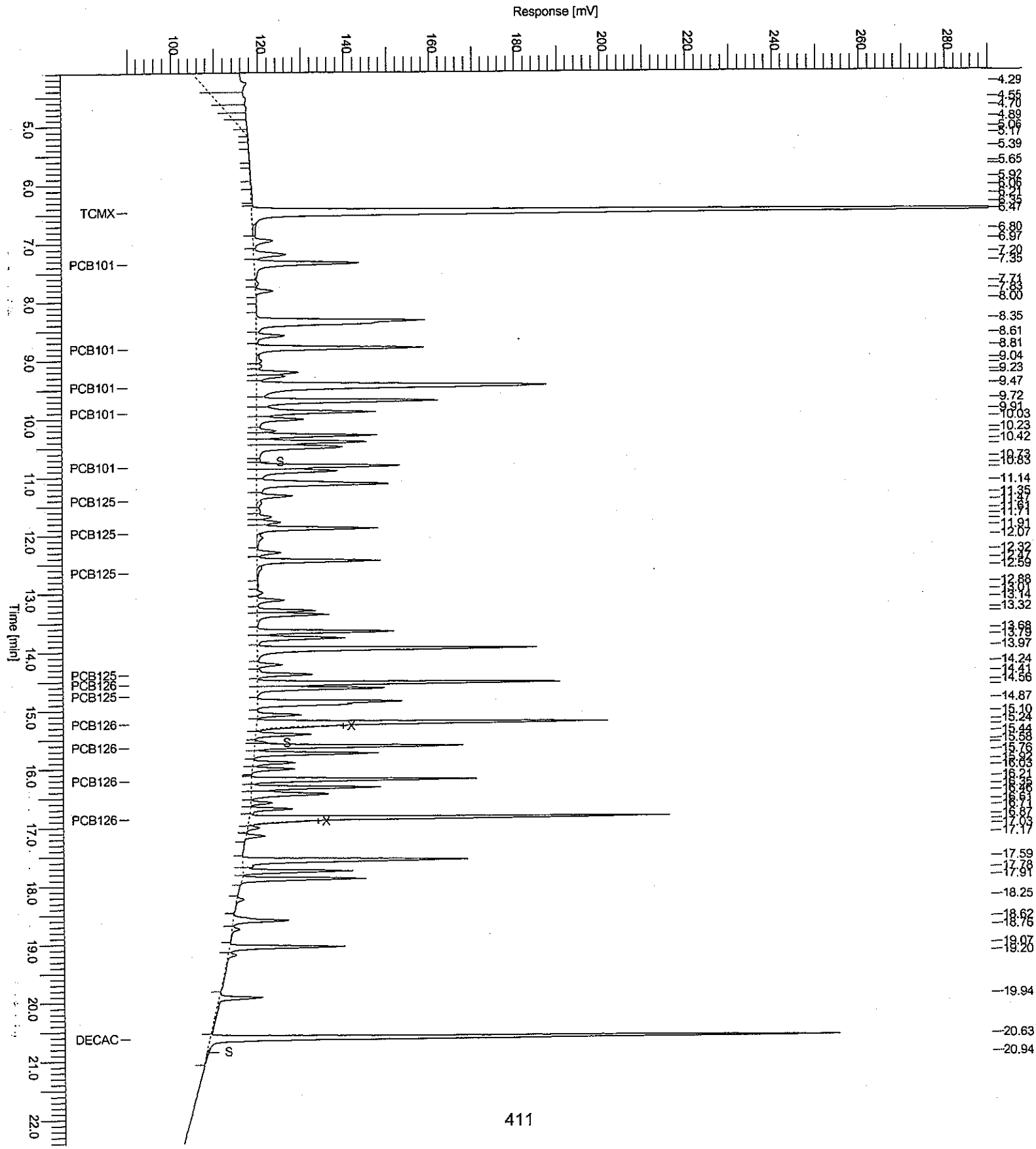
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.560	221062.46	199.61	1.0000	1	199.61	39.92
PCB1260#2	15.240	288739.04	224.97	1.0000	1	224.97	44.99
PCB1260#3	15.640	145056.98	173.96	1.0000	1	173.96	34.79
PCB1260#4	16.213	155034.61	186.06	1.0000	1	186.06	37.21
PCB1260#5	16.867	308469.04	161.47	1.0000	1	161.47	32.29
		1118362.14	946.07			946.07	189.21

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\316b012p.TX0

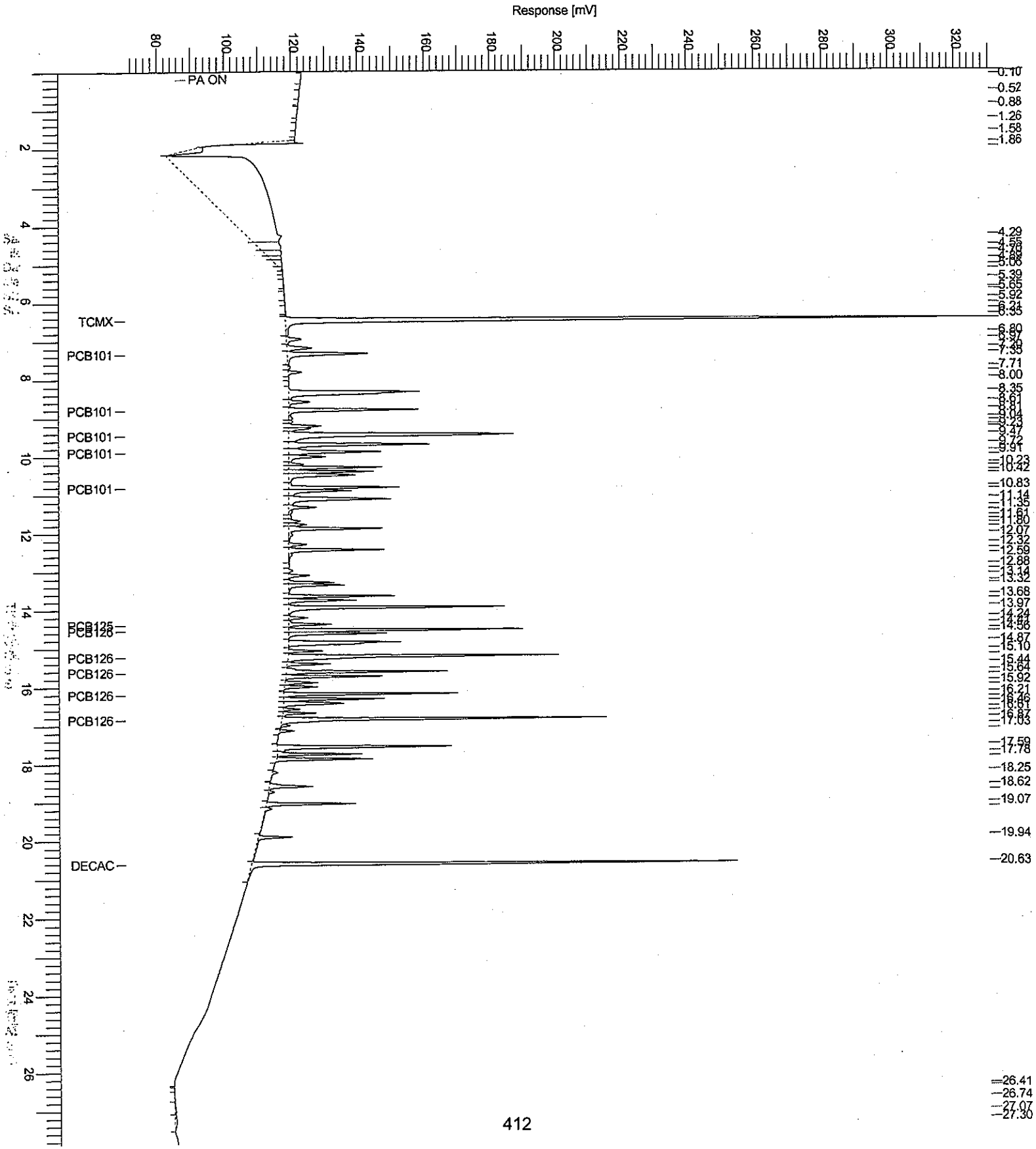
GC 06 Rtx-5

Sample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b012.raw
Date : 11/12/04 11:48:41 AM
Method :
Time of Injection: 11/11/04 10:24:39 PM
Start Time : 4.09 min End Time : 22.43 min Low Point : 89.86 mV High Point : 290.14 mV
Plot Offset: 89.86 mV Plot Scale: 200.3 mV



GC 06 Rtx-5

Sample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b012
Date : 11/12/04 11:28:21 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 10:24:39 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 70.39 mV High Point : 330.34 mV
Scale Factor: 1.0 Plot Offset: 70.39 mV Plot Scale: 259.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1790,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 11/12/04 11:36:36 AM
Data Acquisition Time : 11/11/04 10:57:44 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a013p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	1058904.69	69.34	1.0000	1	69.34	13.87
Aroclor-1016	10.867	790353.41	374.75	1.0000	1	374.75	74.95
Aroclor-1254	15.987	827701.81	0.83	1.0000	1	0.83	0.17
Aroclor-1260	18.307	1100945.56	224.90	1.0000	1	224.90	44.98
Decachlorobiphenyl	21.640	836459.74	68.21	1.0000	1	68.21	13.64
		4614365.21	738.03			738.03	147.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.662	119683.96	316.45	1.0000	1	316.45	63.29
PCB1016#2	9.624	216827.41	327.27	1.0000	1	327.27	65.45
PCB1016#3	10.867	251248.30	689.07	1.0000	1	689.07	137.81
PCB1016#4	11.369	116446.84	450.41	1.0000	1	450.41	90.08
PCB1016#5	11.837	86146.90	193.54	1.0000	1	193.54	38.71
		790353.41	1976.74			1976.74	395.35

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.572	87788.32	139.67	1.0000	1	139.67	27.93
PCB1254#2	13.867	118306.76	181.73	1.0000	1	181.73	36.35
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.307	244235.25	263.01	1.0000	1	263.01	52.60
PCB1254#5	15.987	377371.49	303.83	1.0000	1	303.83	60.77
		827701.81	888.25			888.25	177.65

11/12/04

Group Report For : Aroclor-1260

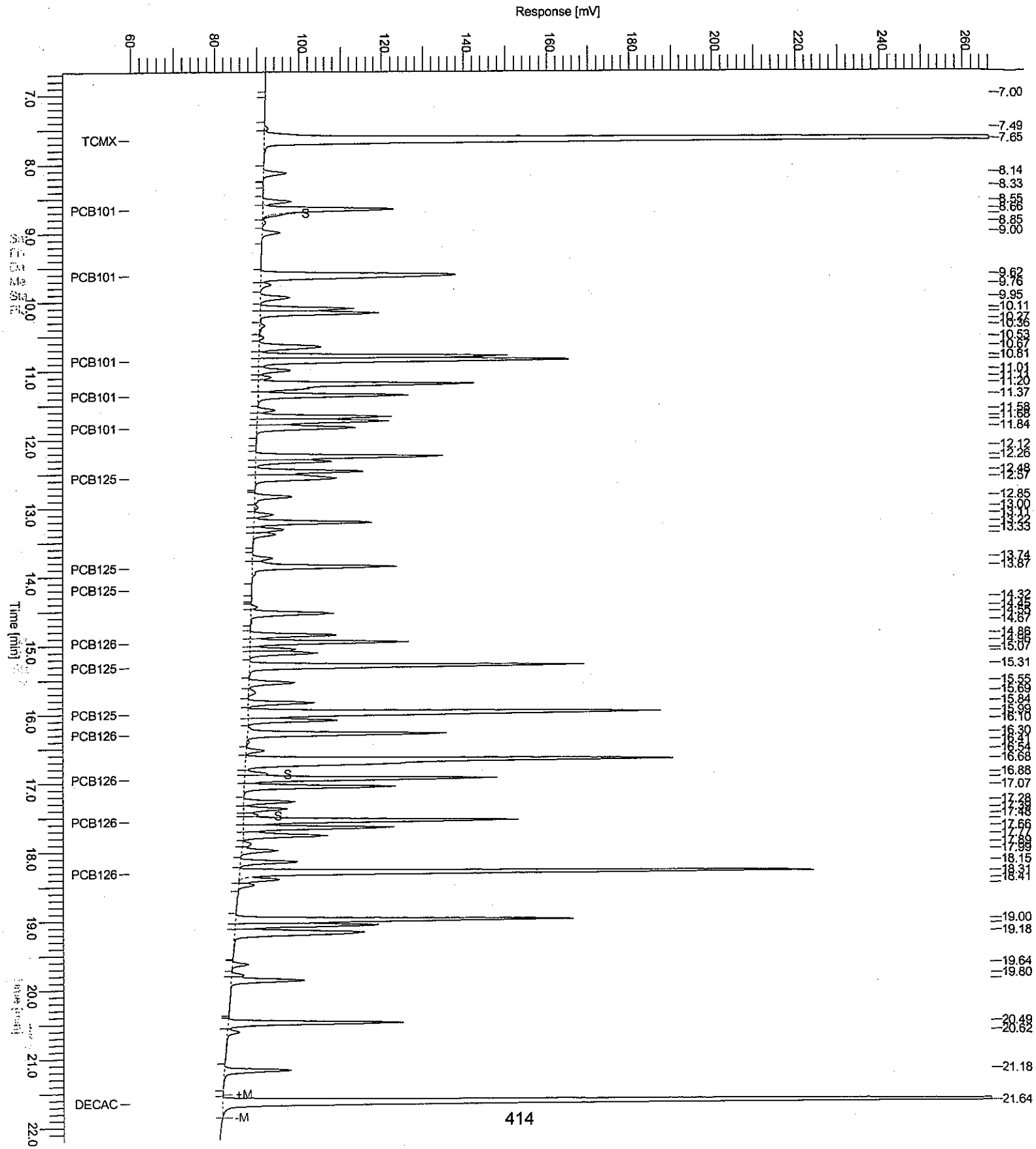
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.963	116893.53	139.01	1.0000	1	139.01	27.80
PCB1260#2	16.296	156529.81	274.61	1.0000	1	274.61	54.92
PCB1260#3	16.949	188698.76	213.31	1.0000	1	213.31	42.66
PCB1260#4	17.557	209009.75	290.01	1.0000	1	290.01	58.00
PCB1260#5	18.307	429813.71	228.74	1.0000	1	228.74	45.75
		1100945.56	1145.68			1145.68	229.14

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\316a013p.TX0

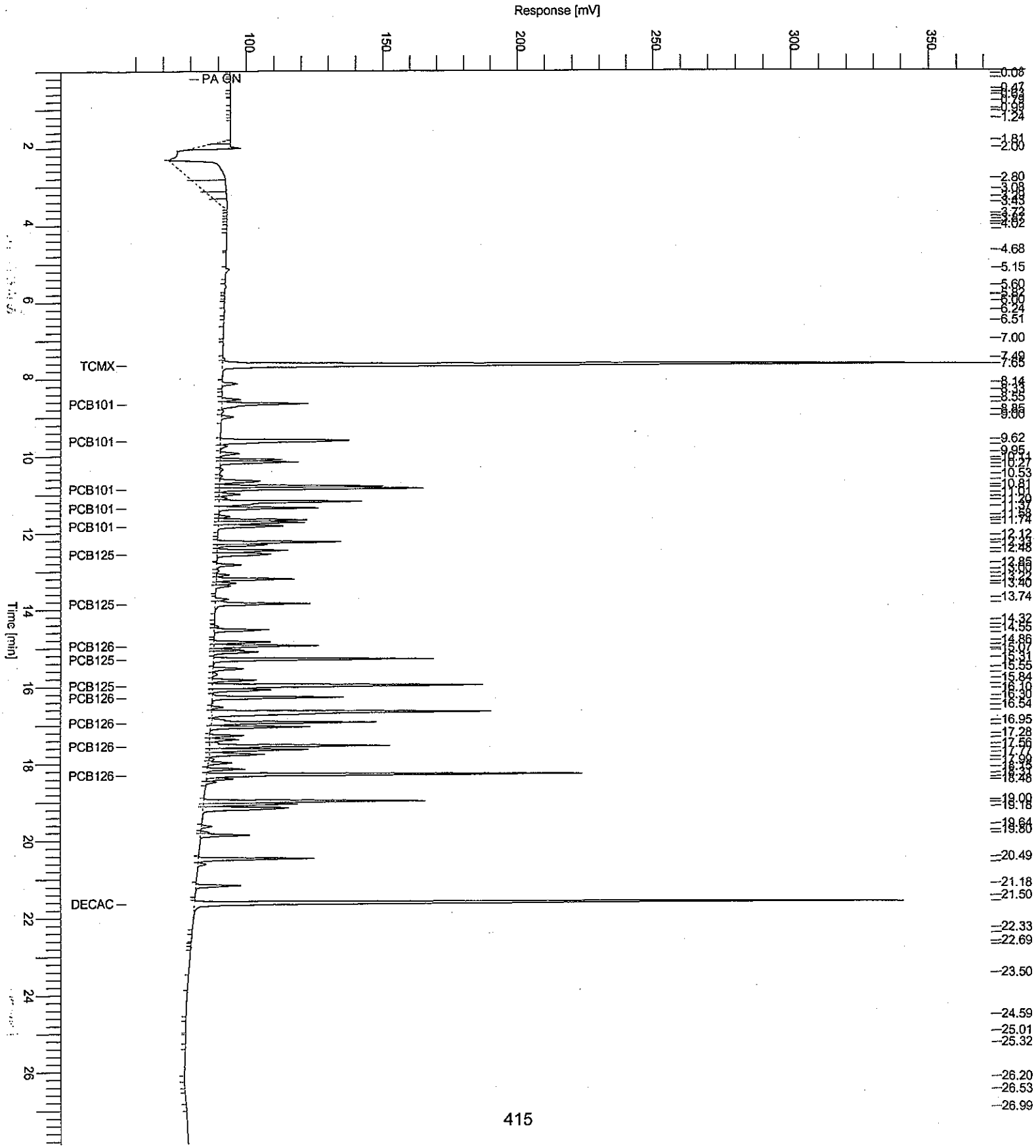
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a013.raw
Date : 11/12/04 11:36:41 AM
Method :
Time of Injection: 11/11/04 10:57:44 PM
Start Time : 6.67 min End Time : 22.20 min Low Point : 59.55 mV High Point : 266.28 mV
Plot Offset: 59.55 mV Plot Scale: 206.7 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a013.raw
Date : 11/12/04 11:27:42 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 10:57:44 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 56.83 mV High Point : 372.68 mV
Scale Factor: 1.0 Plot Offset: 56.83 mV Plot Scale: 315.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1790,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 11/12/04 11:49:29 AM
Data Acquisition Time : 11/11/04 10:57:44 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b013p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	1756542.62	78.70	1.0000	1	78.70	15.74
Aroclor-1016	9.467	1655422.24	398.67	1.0000	1	398.67	79.73
Aroclor-1254	14.406	89284.35	0.09	1.0000	1	0.09	0.02
Aroclor-1260	16.867	2346688.94	393.18	1.0000	1	393.18	78.64
Decachlorobiphenyl	20.627	942227.25	62.39	1.0000	1	62.39	12.48
		6790165.41	933.03			933.03	186.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.347	209246.24	448.99	1.0000	1	448.99	89.80
PCB1016#2	8.813	266742.73	424.77	1.0000	1	424.77	84.95
PCB1016#3	9.467	714949.37	367.70	1.0000	1	367.70	73.54
PCB1016#4	9.907	229947.63	474.60	1.0000	1	474.60	94.92
PCB1016#5	10.827	234536.26	372.61	1.0000	1	372.61	74.52
		1655422.24	2088.67			2088.67	417.73

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.406	89284.35	330.87	1.0000	1	330.87	66.17
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		89284.35	330.87			330.87	66.17

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	452676.06	408.74	1.0000	1	408.74	81.75
PCB1260#2	15.240	608979.93	474.48	1.0000	1	474.48	94.90
PCB1260#3	15.640	300194.68	360.02	1.0000	1	360.02	72.00
PCB1260#4	16.213	328797.96	394.60	1.0000	1	394.60	78.92
PCB1260#5	16.867	656040.32	343.40	1.0000	1	343.40	68.68
		2346688.94	1981.25			1981.25	396.25

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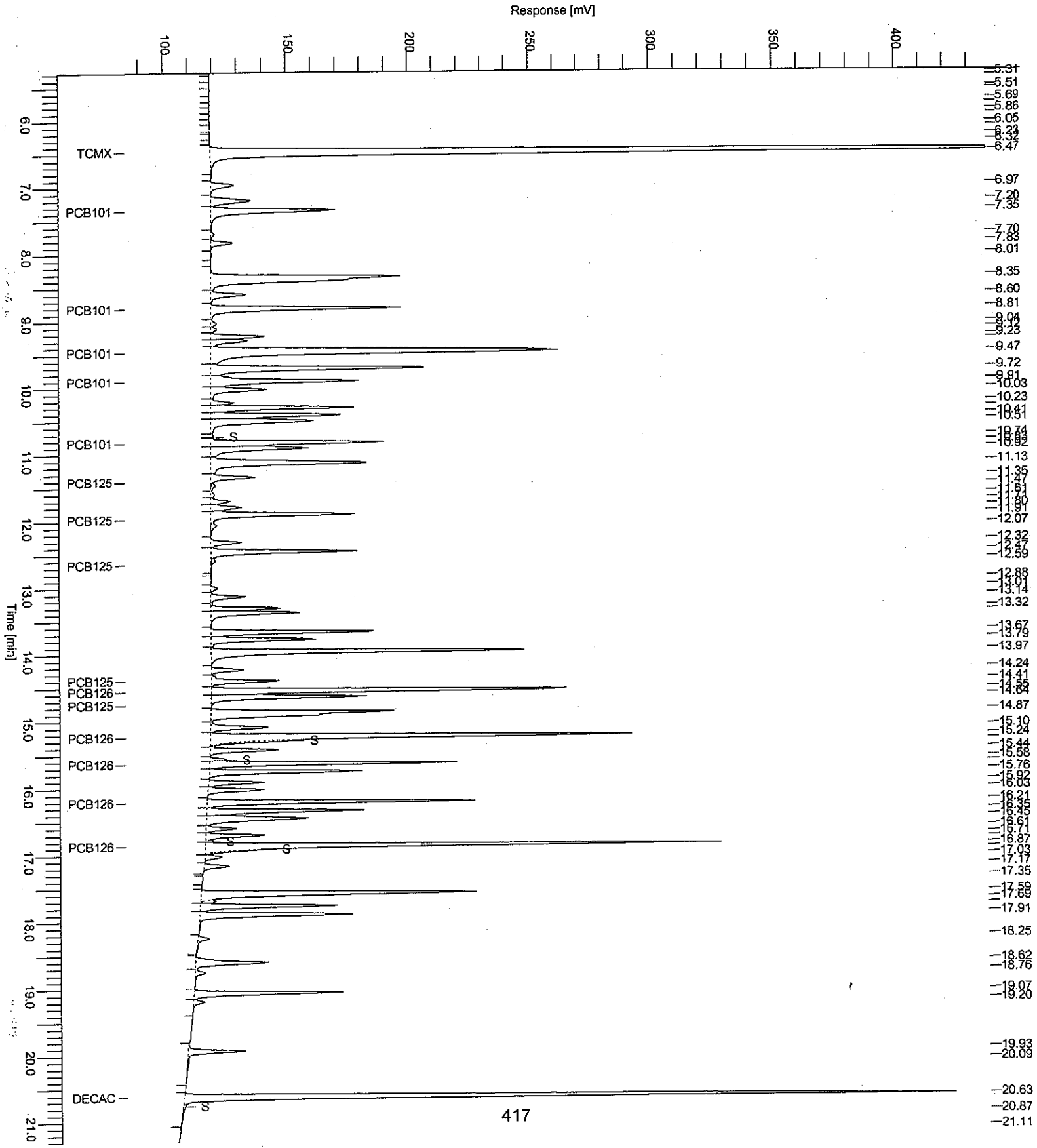
Report stored in ASCII file: G:\gc06\chb\316b013p.TX0

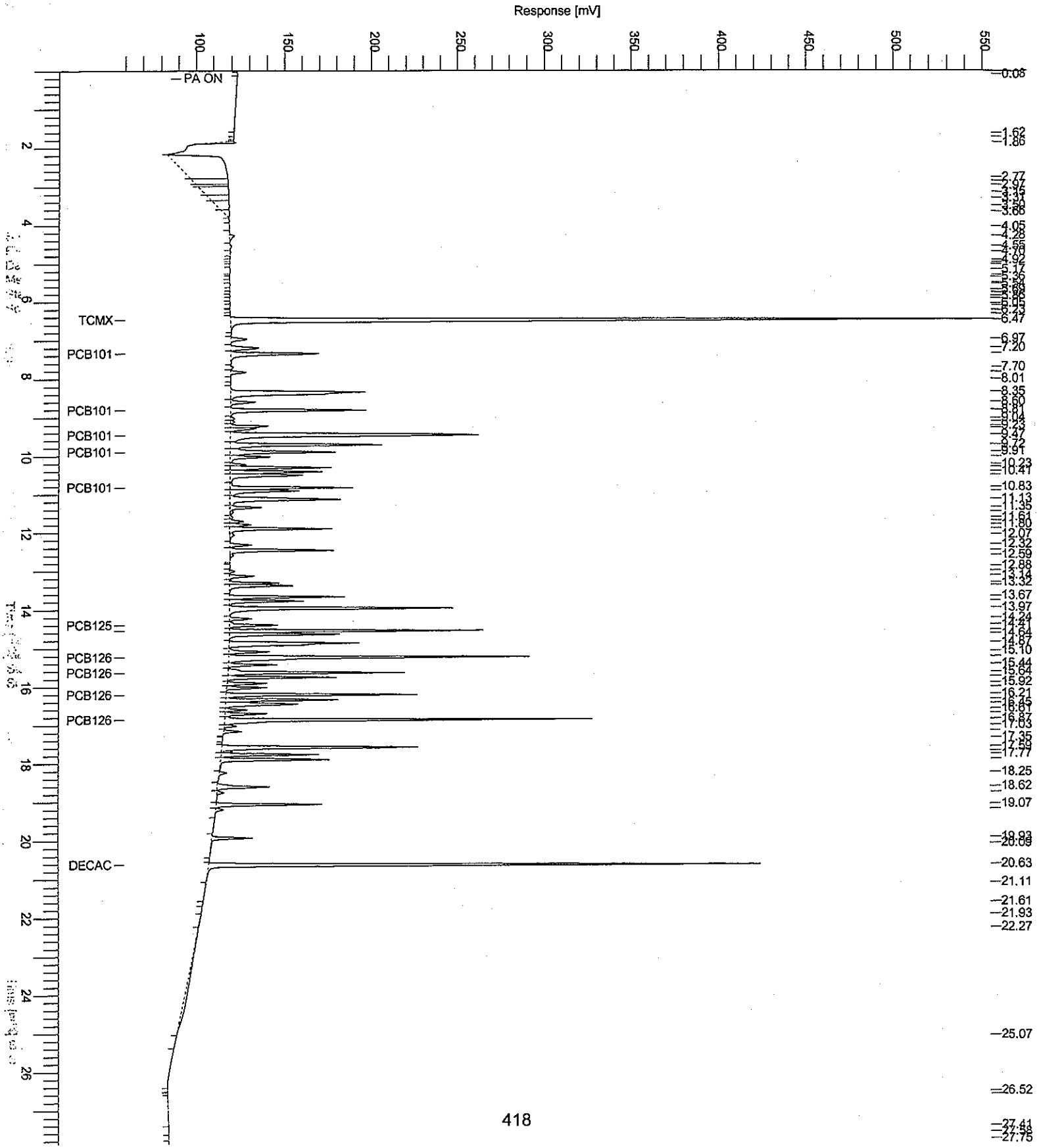
GC 06 Rtx-5

Sample Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b013.raw
Date : 11/12/04 11:49:34 AM
Method :
Time of Injection: 11/11/04 10:57:44 PM
Start Time : 5.28 min End Time : 21.31 min Low Point : 84.55 mV High Point : 437.75 mV
Plot Offset: 84.55 mV Plot Scale: 353.2 mV



GC 06 Rtx-5

Sample Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b013
Date : 11/12/04 11:28:26 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 10:57:44 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 59.76 mV High Point : 555.45 mV
Scale Factor: 1.0 Plot Offset: 59.76 mV Plot Scale: 495.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/12/04 11:37:17 AM
Data Acquisition Time : 11/11/04 11:30:57 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a014p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	1597577.72	104.62	1.0000	1	104.62	20.92
Aroclor-1016	10.853	1176192.11	557.70	1.0000	1	557.70	111.54
Aroclor-1254	15.987	1174422.40	1.17	1.0000	1	1.17	0.23
Aroclor-1260	18.307	1541927.23	314.98	1.0000	1	314.98	63.00
Decachlorobiphenyl	21.640	1100187.29	89.72	1.0000	1	89.72	17.94
		6590306.76	1068.19			1068.19	213.64

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.660	180885.32	478.27	1.0000	1	478.27	95.65
PCB1016#2	9.613	321143.91	484.72	1.0000	1	484.72	96.94
PCB1016#3	10.853	371615.50	1019.19	1.0000	1	1019.19	203.84
PCB1016#4	11.369	173718.76	671.94	1.0000	1	671.94	134.39
PCB1016#5	11.837	128828.61	289.43	1.0000	1	289.43	57.89
		1176192.11	2943.54			2943.54	588.71

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.571	130982.53	208.39	1.0000	1	208.39	41.68
PCB1254#2	13.867	167949.08	257.99	1.0000	1	257.99	51.60
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.307	347958.52	374.71	1.0000	1	374.71	74.94
PCB1254#5	15.987	527532.28	424.73	1.0000	1	424.73	84.95
		1174422.40	1265.82			1265.82	253.16

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.963	168610.19	200.52	1.0000	1	200.52	40.10
PCB1260#2	16.296	226397.08	397.18	1.0000	1	397.18	79.44
PCB1260#3	16.947	263280.73	297.62	1.0000	1	297.62	59.52
PCB1260#4	17.560	291742.67	404.81	1.0000	1	404.81	80.96
PCB1260#5	18.307	591896.56	315.00	1.0000	1	315.00	63.00
		1541927.23	1615.12			1615.12	323.02

11/12/04

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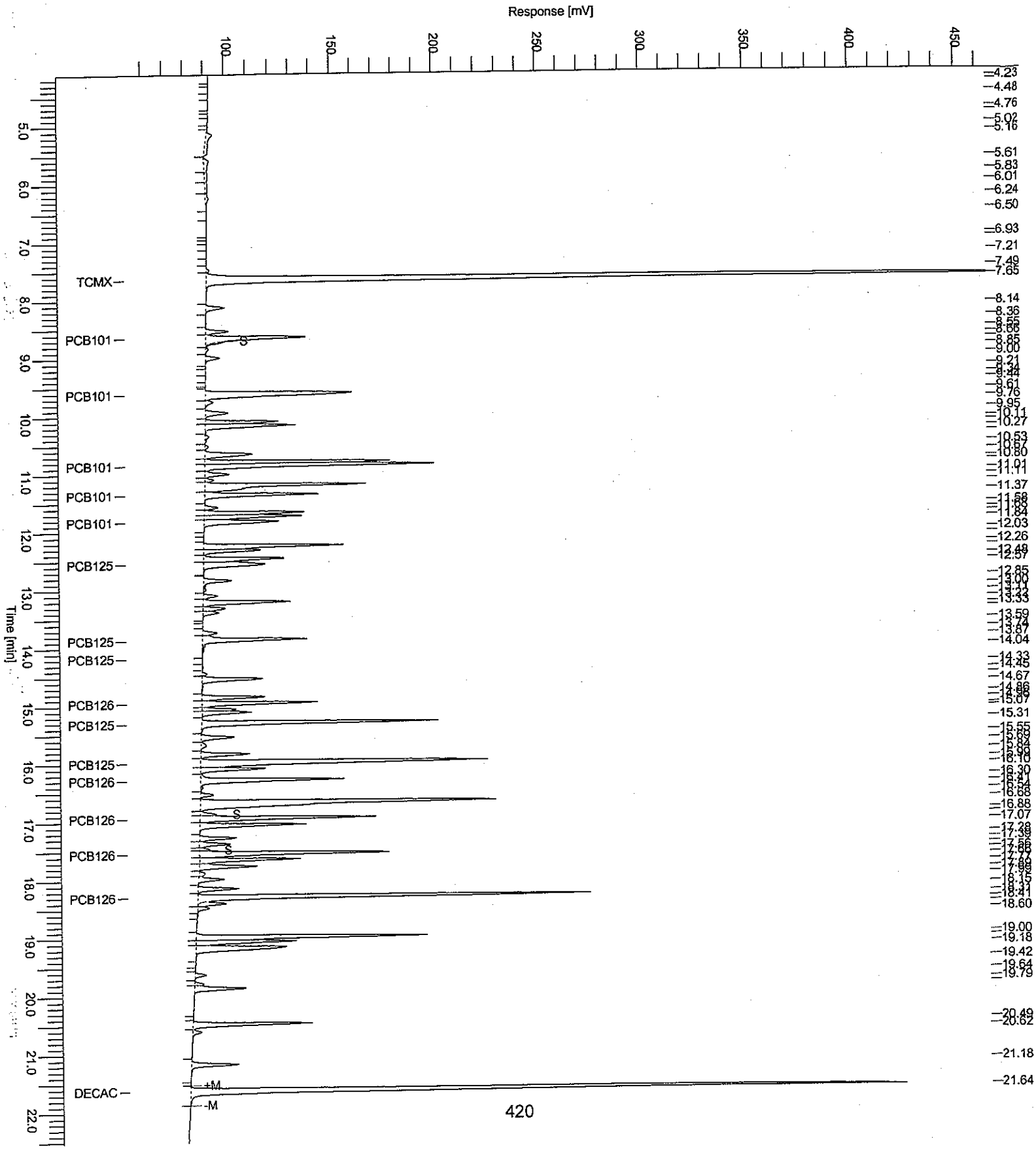
Report stored in ASCII file: G:\gc06\cha\316a014p.TX0

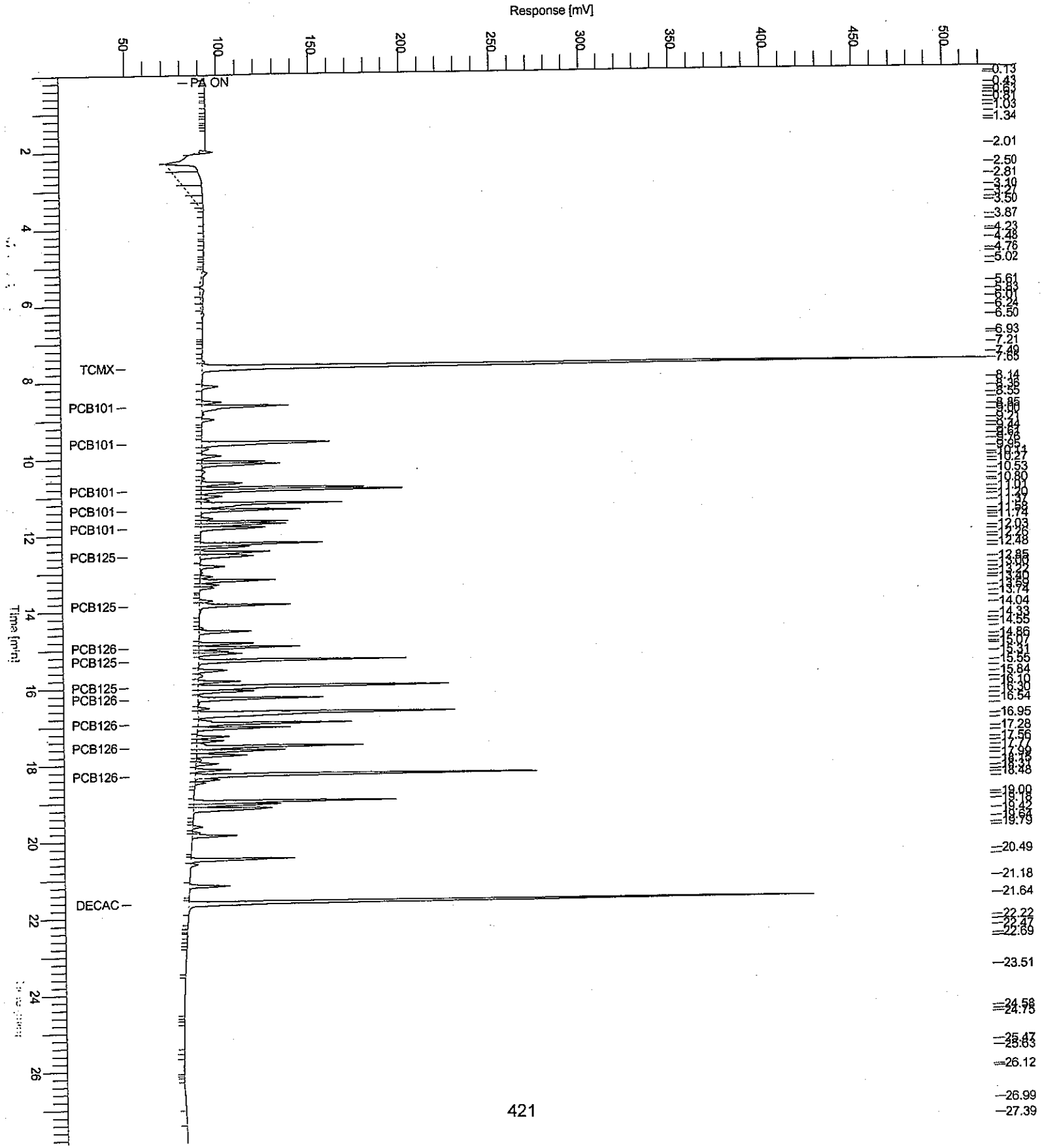
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a014.raw
Date : 11/12/04 11:37:22 AM
Method :
Time of Injection: 11/11/04 11:30:57 PM
Start Time : 4.12 min End Time : 22.53 min Low Point : 52.22 mV High Point : 465.25 mV
Plot Offset: 52.22 mV Plot Scale: 413.0 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a014.raw
Date : 11/12/04 11:27:48 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 11:30:57 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 49.49 mV High Point : 522.71 mV
Scale Factor: 1.0 Plot Offset: 49.49 mV Plot Scale: 473.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/12/04 11:50:26 AM
Data Acquisition Time : 11/11/04 11:30:57 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b014p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	2585454.41	115.84	1.0000	1	115.84	23.17
Aroclor-1016	9.467	2441838.47	588.06	1.0000	1	588.06	117.61
Aroclor-1254	14.400	128803.61	0.13	1.0000	1	0.13	0.03
Aroclor-1260	16.867	3178609.72	532.57	1.0000	1	532.57	106.51
Decachlorobiphenyl	20.627	1238324.01	82.00	1.0000	1	82.00	16.40
		9573030.21	1318.60			1318.60	263.72

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.347	320567.07	687.86	1.0000	1	687.86	137.57
PCB1016#2	8.813	395517.18	629.84	1.0000	1	629.84	125.97
PCB1016#3	9.467	1043320.26	536.58	1.0000	1	536.58	107.32
PCB1016#4	9.907	341650.43	705.14	1.0000	1	705.14	141.03
PCB1016#5	10.827	340783.52	541.40	1.0000	1	541.40	108.28
		2441838.47	3100.83			3100.83	620.17

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.400	128803.61	477.31	1.0000	1	477.31	95.46
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		128803.61	477.31			477.31	95.46

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	623720.92	563.19	1.0000	1	563.19	112.64
PCB1260#2	15.240	810471.14	631.47	1.0000	1	631.47	126.29
PCB1260#3	15.640	407718.04	488.97	1.0000	1	488.97	97.79
PCB1260#4	16.213	448339.95	538.07	1.0000	1	538.07	107.61
PCB1260#5	16.867	888359.67	465.01	1.0000	1	465.01	93.00
		3178609.72	2686.71			2686.71	537.34

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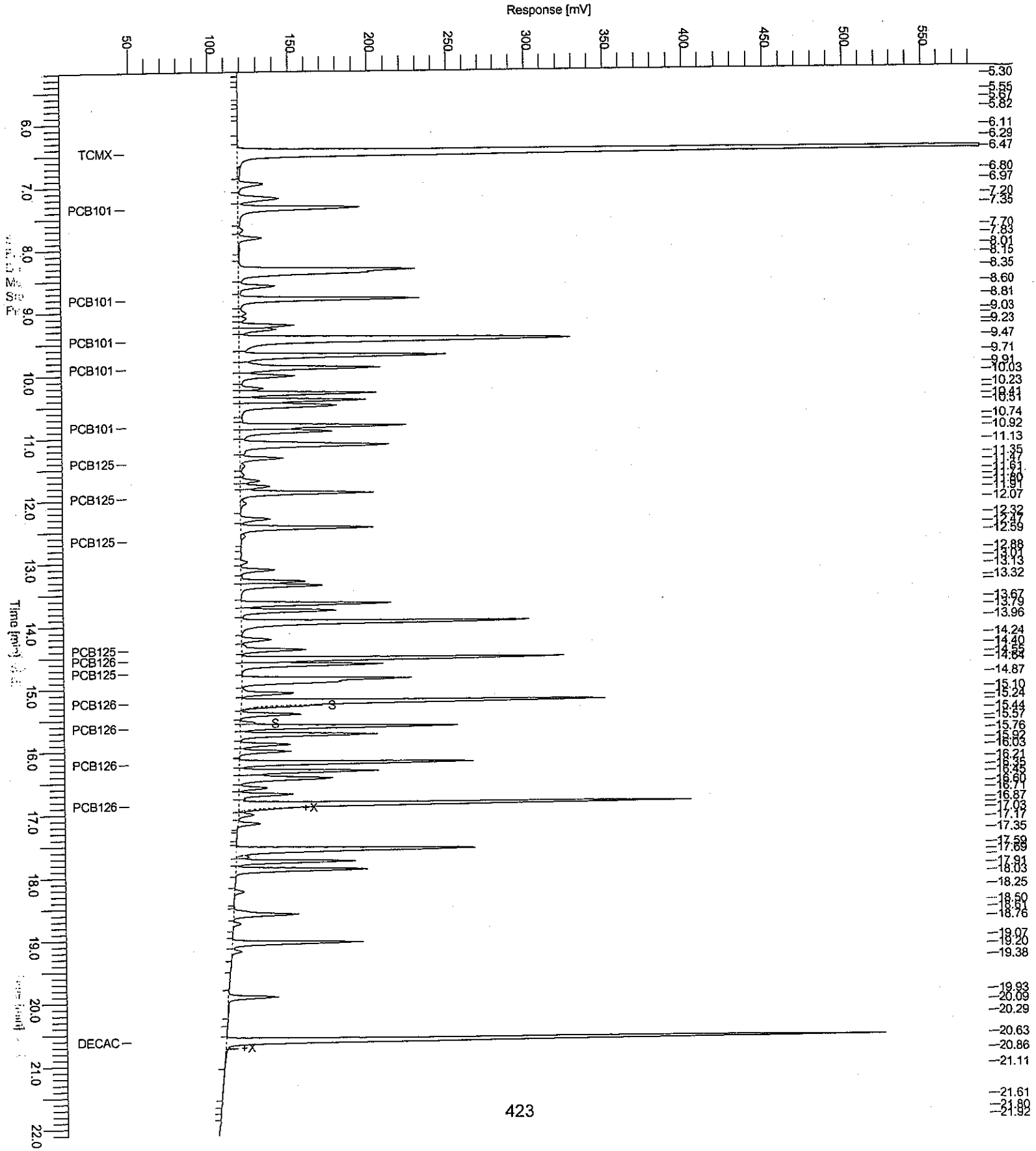
Report stored in ASCII file: G:\gc06\chb\316b014p.TX0

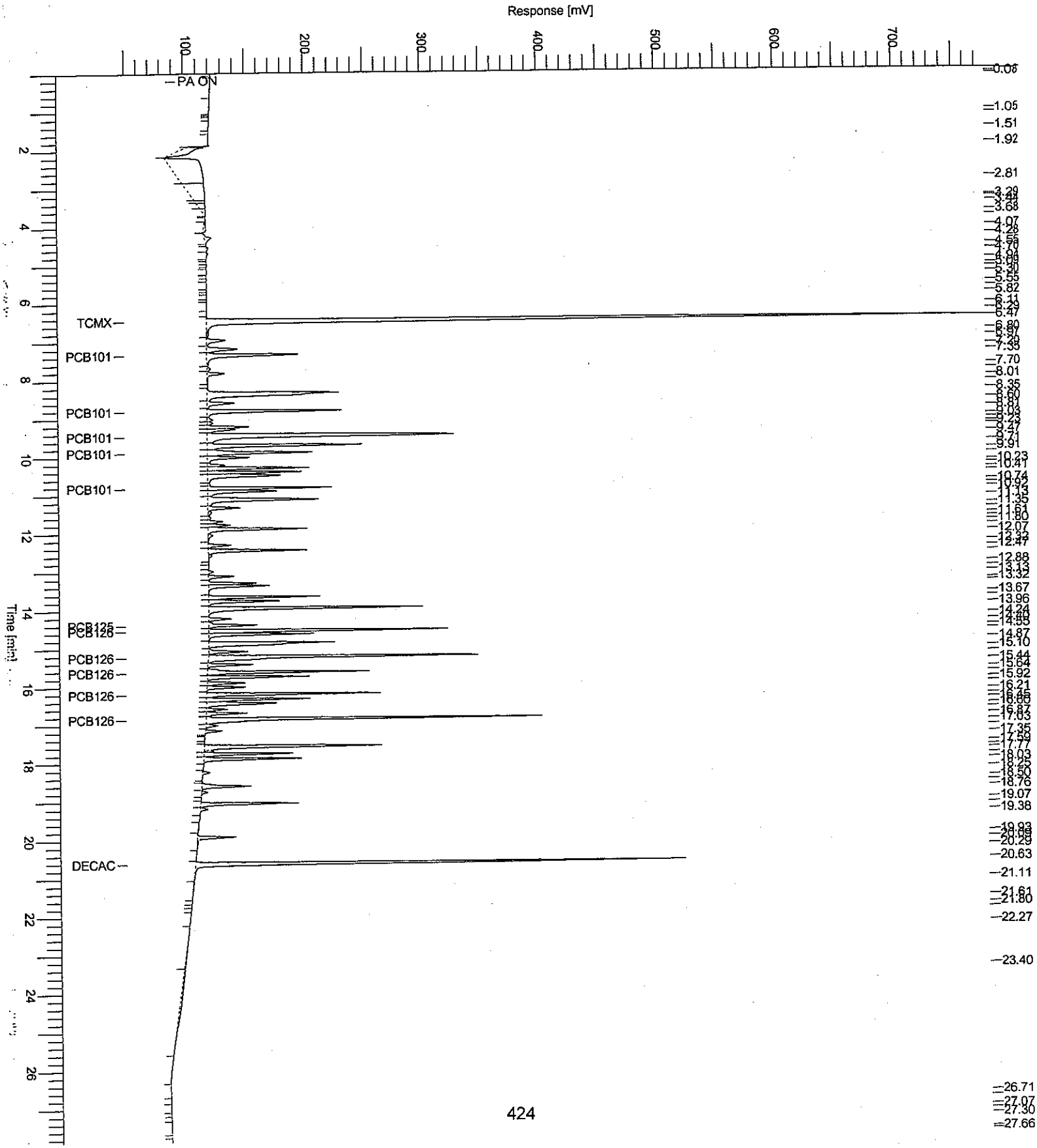
GC 06 Rtx-5

Sample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b014.raw
Date : 11/12/04 11:50:31 AM
Method :
Time of Injection: 11/11/04 11:30:57 PM
Start Time : 5.19 min End Time : 22.12 min Low Point : 47.28 mV High Point : 587.05 mV
Plot Offset: 47.28 mV Plot Scale: 539.8 mV



GC 06 Rtx-5

Sample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l
FileName : G:\gc06\CHb\316b014
Date : 11/12/04 11:28:32 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 11:30:57 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 49.11 mV High Point : 778.57 mV
Scale Factor: 1.0 Plot Offset: 49.11 mV Plot Scale: 729.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,pcb1k_200
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/12/04 11:39:36 AM
Data Acquisition Time : 11/12/04 12:04:16 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a015p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	2000763.06	131.02	1.0000	1	131.02	26.20
Aroclor-1016	10.853	1464796.77	694.54	1.0000	1	694.54	138.91
Aroclor-1254	15.987	1486181.15	1.49	1.0000	1	1.49	0.30
Aroclor-1260	18.307	1970280.91	402.49	1.0000	1	402.49	80.50
Decachlorobiphenyl	21.640	1415265.08	115.42	1.0000	1	115.42	23.08
		8337286.97	1344.95			1344.95	268.99

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.659	224281.06	593.01	1.0000	1	593.01	118.60
PCB1016#2	9.613	393826.68	594.42	1.0000	1	594.42	118.88
PCB1016#3	10.853	465894.44	1277.76	1.0000	1	1277.76	255.55
PCB1016#4	11.366	220301.44	852.12	1.0000	1	852.12	170.42
PCB1016#5	11.837	160493.14	360.57	1.0000	1	360.57	72.11
		1464796.77	3677.87			3677.87	735.57

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.571	169885.20	270.28	1.0000	1	270.28	54.06
PCB1254#2	13.866	219074.32	336.52	1.0000	1	336.52	67.30
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.307	433673.75	467.02	1.0000	1	467.02	93.40
PCB1254#5	15.987	663547.88	534.24	1.0000	1	534.24	106.85
		1486181.15	1608.06			1608.06	321.61

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.962	212272.76	252.44	1.0000	1	252.44	50.49
PCB1260#2	16.293	290132.94	509.00	1.0000	1	509.00	101.80
PCB1260#3	16.947	334249.52	377.84	1.0000	1	377.84	75.57
PCB1260#4	17.560	373663.89	518.48	1.0000	1	518.48	103.70
PCB1260#5	18.307	759961.80	404.44	1.0000	1	404.44	80.89
		1970280.91	2062.20			2062.20	412.44

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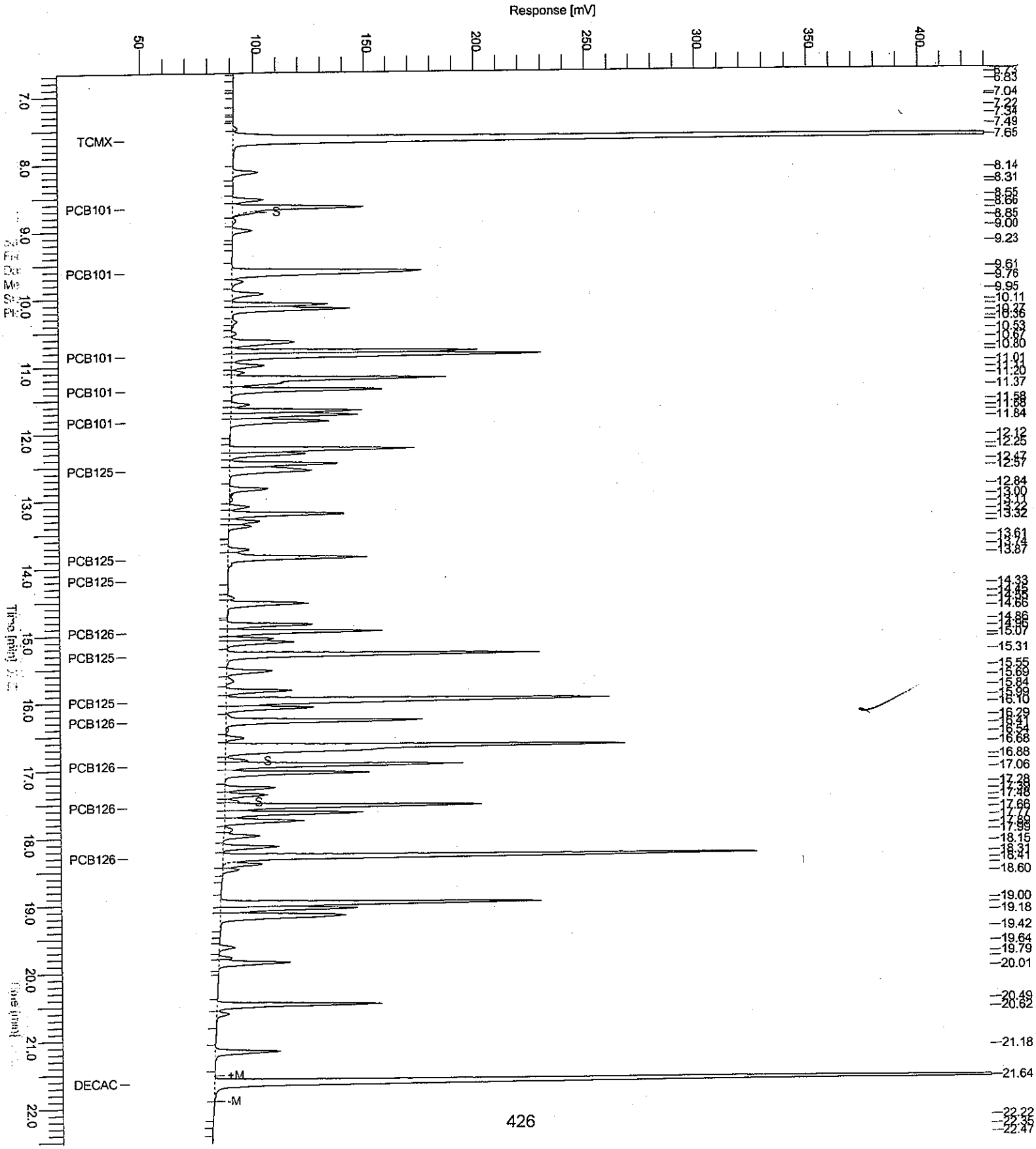
Report stored in ASCII file: G:\gc06\cha\316a015p.TX0

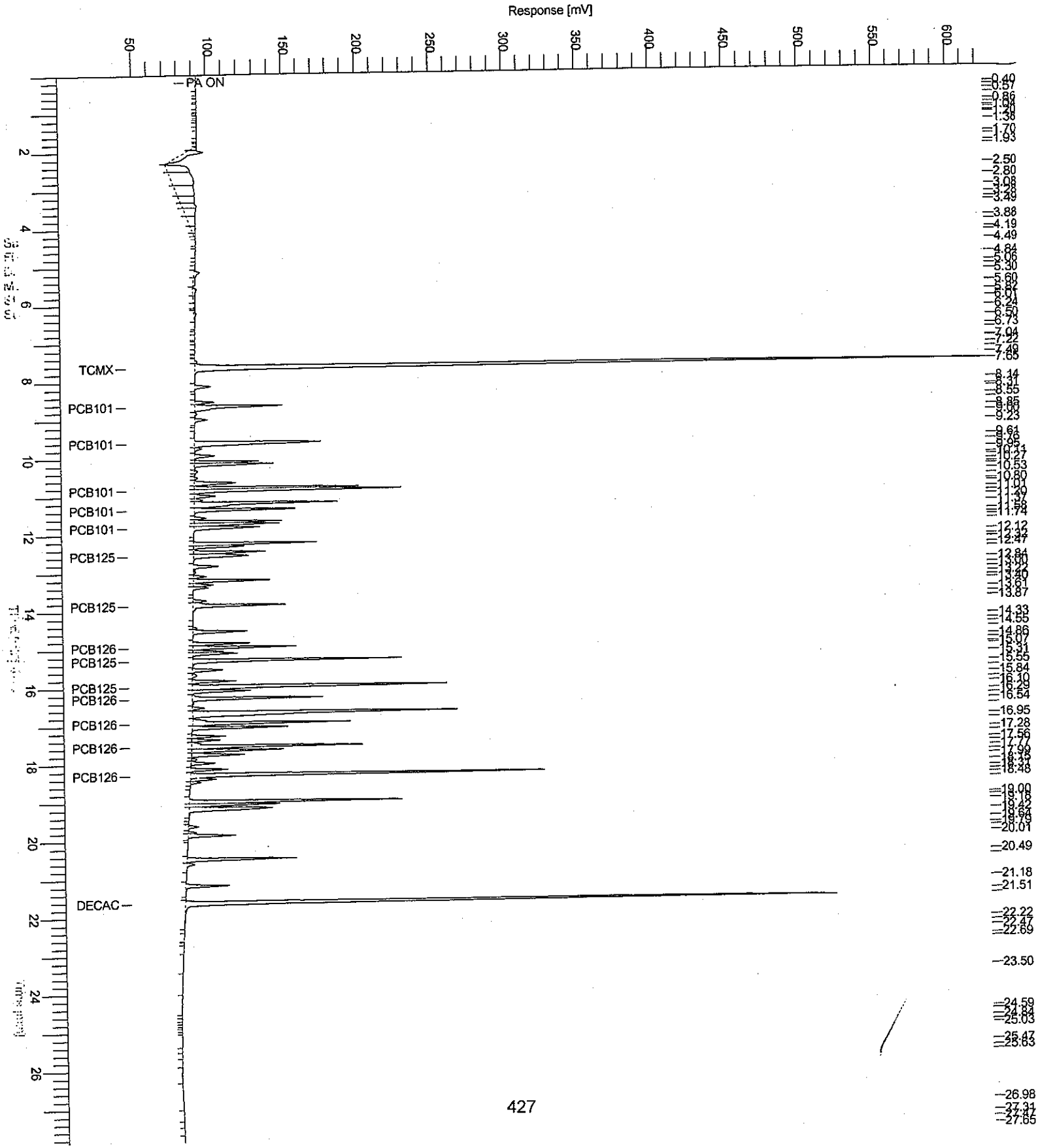
GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a015.raw
Date : 11/12/04 11:38:03 AM
Method :
Time of Injection: 11/12/04 12:04:16 AM
Start Time : 6.67 min End Time : 22.53 min Low Point : 42.92 mV High Point : 430.00 mV
Plot Offset: 42.92 mV Plot Scale: 387.1 mV



GC 06 Rtx-CLPesticides

'ample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
'ileName : G:\gc06\CHa\316a015.raw
)ate : 11/12/04 11:27:59 AM Time of Injection: 11/12/04 12:04:16 AM
'ethod : gc06fsa1ul
Start Time : 0.00 min End Time : 27.88 min Low Point : 44.37 mV High Point : 625.91 mV
Scale Factor: 1.0 Plot Offset: 44.37 mV Plot Scale: 581.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,pcb1k_200
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/12/04 11:52:05 AM
Data Acquisition Time : 11/12/04 12:04:16 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b015p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	3182766.70	142.60	1.0000	1	142.60	28.52
Aroclor-1016	9.467	2971760.27	715.68	1.0000	1	715.68	143.14
Aroclor-1254	14.400	188592.19	0.19	1.0000	1	0.19	0.04
Aroclor-1260	16.867	4152451.27	695.74	1.0000	1	695.74	139.15
Decachlorobiphenyl	20.627	1590011.58	105.28	1.0000	1	105.28	21.06
		12085582.01	1659.49			1659.49	331.90

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.347	380135.03	815.68	1.0000	1	815.68	163.14
PCB1016#2	8.813	472919.78	753.10	1.0000	1	753.10	150.62
PCB1016#3	9.467	1277925.05	657.24	1.0000	1	657.24	131.45
PCB1016#4	9.907	423281.08	873.62	1.0000	1	873.62	174.72
PCB1016#5	10.827	417499.33	663.28	1.0000	1	663.28	132.66
		2971760.27	3762.92			3762.92	752.58

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.400	188592.19	698.88	1.0000	1	698.88	139.78
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		188592.19	698.88			698.88	139.78

Group Report For : Aroclor-1260

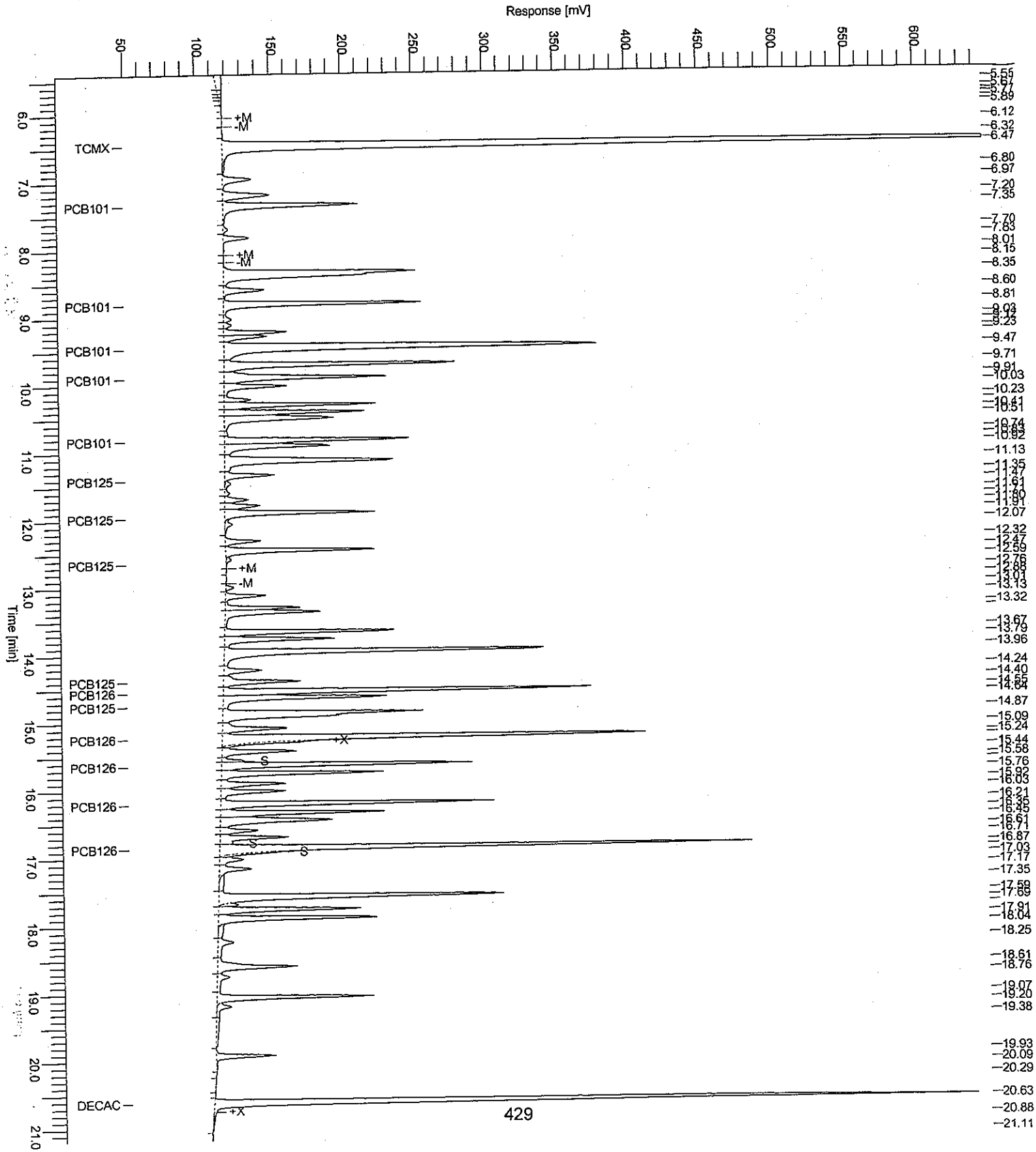
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	797697.07	720.28	1.0000	1	720.28	144.06
PCB1260#2	15.240	1062506.99	827.84	1.0000	1	827.84	165.57
PCB1260#3	15.640	536022.82	642.84	1.0000	1	642.84	128.57
PCB1260#4	16.213	597963.88	717.64	1.0000	1	717.64	143.53
PCB1260#5	16.867	1158260.50	606.29	1.0000	1	606.29	121.26
		4152451.27	3514.89			3514.89	702.98

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\316b015p.TX0

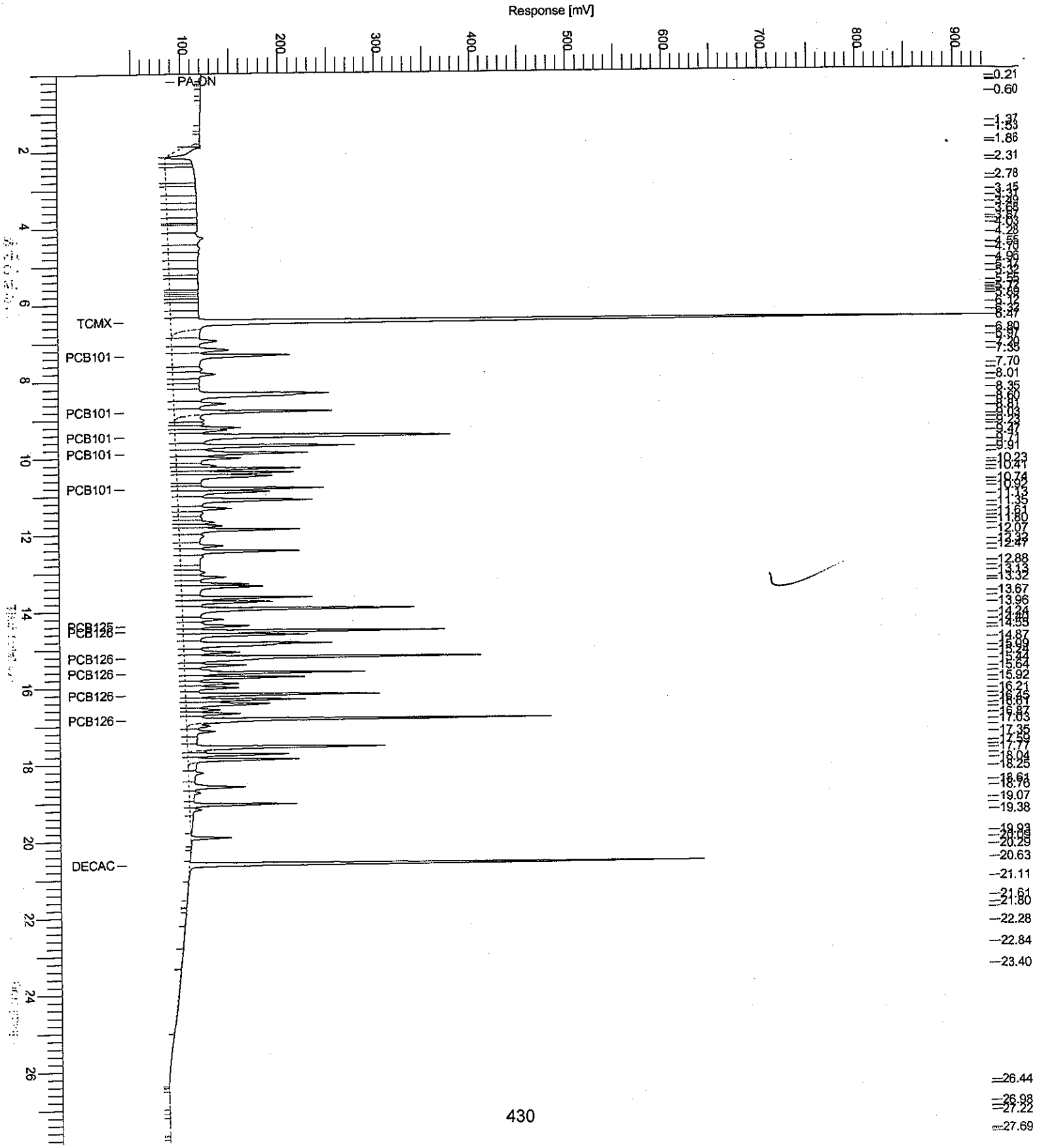
GC 06 Rtx-5

Sample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b015.raw
Date : 11/12/04 11:52:10 AM
Method :
Time of Injection: 11/12/04 12:04:16 AM
Start Time : 5.41 min End Time : 21.19 min Low Point : 49.60 mV High Point : 647.15 mV
Plot Offset: 49.60 mV Plot Scale: 597.5 mV



GC 06 Rtx-5

Sample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b015
Date : 11/12/04 11:28:37 AM
Method : gc06fsa1ul Time of Injection: 11/12/04 12:04:16 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 42.04 mV High Point : 932.53 mV
Scale Factor: 1.0 Plot Offset: 42.04 mV Plot Scale: 890.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : gc06
Rack/Vial : 1/8
Sample Amount : 1.000000
Cycle : 8

Date : 11/12/04 3:51:06 PM
Data Acquisition Time : 11/11/04 8:11:41 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\cha\316a008.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	0.00	0.00	1.0000	1	0.00	0.00
Aroclor-1016	11.845	345460.84	214.76	1.0000	1	214.76	42.95
Aroclor-1254	15.389	165340.62	0.17	1.0000	1	0.17	0.03
Aroclor-1260	16.997	665006.37	289.94	1.0000	1	289.94	57.99
Decachlorobiphenyl	21.658	362981.00	44.57	1.0000	1	44.57	8.91
		1538788.83	549.44			549.44	109.89

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.623	102153.35	221.43	1.0000	1	221.43	44.29
PCB1016#3	10.857	1340.37	2.63	1.0000	1	2.63	0.53
PCB1016#4	11.366	8992.26	39.00	1.0000	1	39.00	7.80
PCB1016#5	11.845	232974.87	1403.26	1.0000	1	1403.26	280.65
		345460.84	1666.32			1666.32	333.26

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.724	11536.91	18.36	1.0000	1	18.36	3.67
PCB1254#2	13.976	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.462	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.389	120856.73	130.15	1.0000	1	130.15	26.03
PCB1254#5	15.996	32946.98	26.53	1.0000	1	26.53	5.31
		165340.62	175.03			175.03	35.01

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.971	86504.34	365.40	1.0000	1	365.40	73.08
PCB1260#2	16.299	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#3	16.997	383044.41	1003.89	1.0000	1	1003.89	200.78
PCB1260#4	17.522	195457.62	448.73	1.0000	1	448.73	89.75
PCB1260#5	18.307	0.00	0.00	1.0000	1	0.00	0.00
		665006.37	1818.02			1818.02	363.60

----------CURTIS & TOMPKINS LTD----------

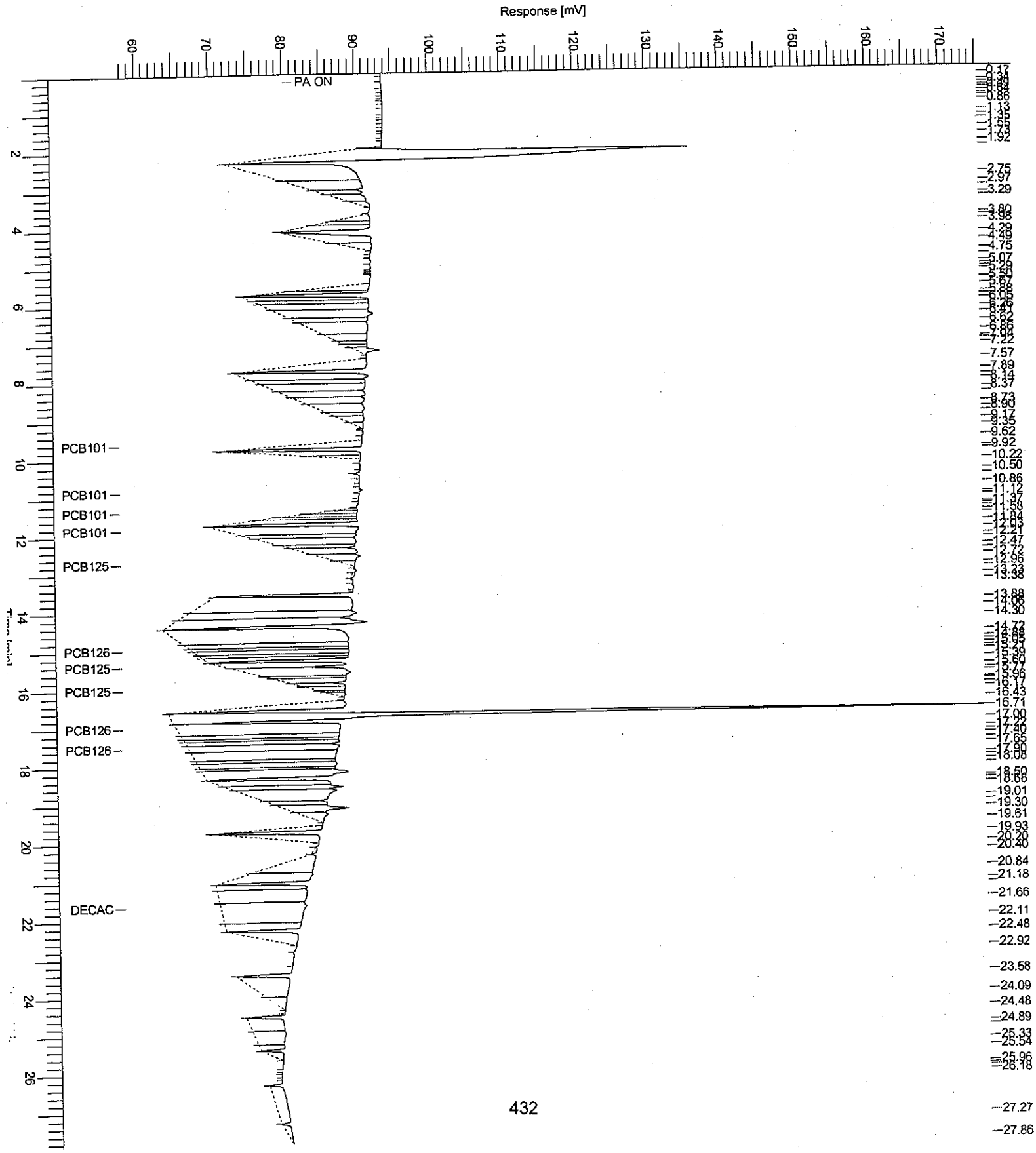
Report stored in ASCII file: g:\gc06\cha\316a008.TX0

GC 06 Rtx-CLPesticides

nple Name : hex
Name : G:\gc06\CHa\316a008.raw
te : 11/12/04 3:51:08 PM
thod : gc06fsa1ul
rt Time : 0.00 min
ale Factor: 1.0

Sample #:

Time of Injection: 11/11/04 8:11:41 PM
End Time : 27.88 min
Low Point : 57.36 mV
High Point : 175.38 mV
Plot Offset: 57.36 mV
Plot Scale: 118.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : hex
Instrument Name : gc06
Rack/Vial : 1/8
Sample Amount : 1.000000
Cycle : 8

Date : 11/12/04 3:51:10 PM
Data Acquisition Time : 11/11/04 8:11:41 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\chb\316b008.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.448	257687.38	13.02	1.0000	1	13.02	2.60
Aroclor-1016	8.807	276714.90	79.94	1.0000	1	79.94	15.99
Aroclor-1254	14.795	1401338.01	1.40	1.0000	1	1.40	0.28
Aroclor-1260	16.871	0.00	0.00	1.0000	1	0.00	0.00
Decachlorobiphenyl	20.622	55727.18	5.91	1.0000	1	5.91	1.18
		1991467.47	100.28			100.28	20.06

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.364	94677.47	219.14	1.0000	1	219.14	43.83
PCB1016#2	8.807	123495.90	209.06	1.0000	1	209.06	41.81
PCB1016#3	9.463	6032.60	3.96	1.0000	1	3.96	0.79
PCB1016#4	9.924	1502.51	3.58	1.0000	1	3.58	0.72
PCB1016#5	10.785	51006.42	102.86	1.0000	1	102.86	20.57
		276714.90	538.60			538.60	107.72

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.450	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.993	85530.51	63.17	1.0000	1	63.17	12.63
PCB1254#3	12.635	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.436	407436.44	1509.86	1.0000	1	1509.86	301.97
PCB1254#5	14.795	908371.06	719.11	1.0000	1	719.11	143.82
		1401338.01	2292.14			2292.14	458.43

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.553	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#2	15.240	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#3	15.641	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#4	16.214	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#5	16.868	0.00	0.00	1.0000	1	0.00	0.00
		0.00	0.00			0.00	0.00

----------CURTIS & TOMPKINS LTD----------

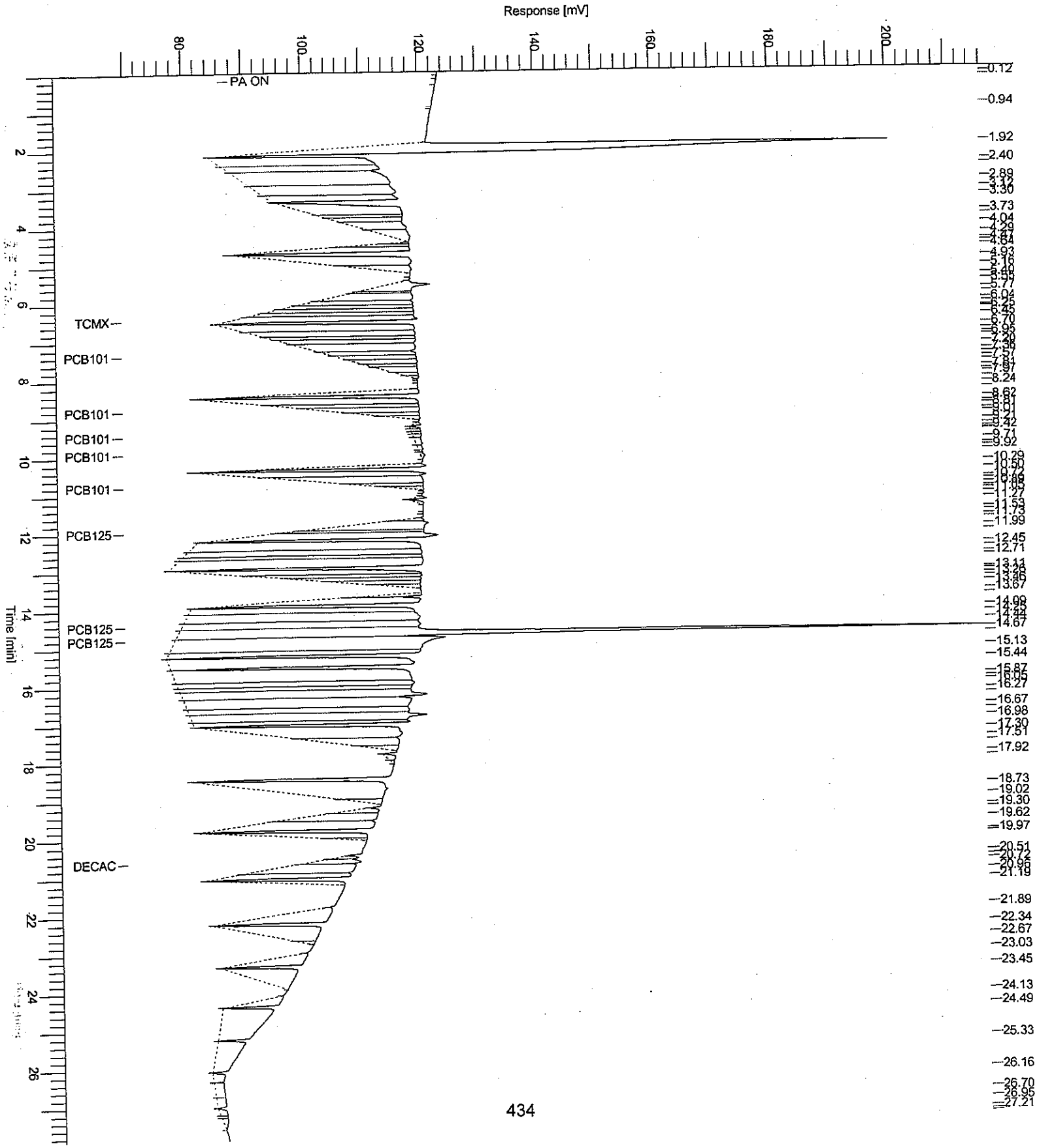
Report stored in ASCII file: g:\gc06\chb\316b008.TX0

GC 06 Rtx-5

ample Name : hex
ileName : G:\gc06\CHb\316b008
ate : 11/12/04 3:51:12 PM
lethod : gc06fsa1ul
tart Time : 0.00 min
cale Factor: 1.0

Sample #:

Time of Injection: 11/11/04 8:11:41 PM
End Time : 27.88 min
Low Point : 69.49 mV
High Point : 216.06 mV
Plot Offset: 69.49 mV
Plot Scale: 146.6 mV



INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Calname :
Calnum : 204456284001 Caldate : 11-NOV-2004 Caltype :

ICV 204456284020 (316_020) standards: 04WS2171

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	204456284020	12-NOV-2004	250.00	281.00	pg	12	15
Aroclor-1260	A	204456284020	12-NOV-2004	250.00	259.47	pg	4	15
TCMX	A	204456284020	12-NOV-2004	50.000	51.330	pg	3	15
Decachlorobiphenyl	A	204456284020	12-NOV-2004	50.000	59.959	pg	20	15
Aroclor-1016	B	204456284020	12-NOV-2004	250.00	260.55	pg	4	15
Aroclor-1260	B	204456284020	12-NOV-2004	250.00	256.62	pg	3	15
TCMX	B	204456284020	12-NOV-2004	50.000	47.058	pg	-6	15
Decachlorobiphenyl	B	204456284020	12-NOV-2004	50.000	58.172	pg	16	15

CONTINUING CALIBRATION SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004			250.00	268.07	pg	7	15	
GC06	B	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004			250.00	285.55	pg	14	15	
GC06	A	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004			500.00	512.47	pg	2	15	
GC06	B	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004			500.00	504.26	pg	1	15	
GC06	A	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004			250.00	242.73	pg	-3	15	
GC06	B	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004			250.00	269.15	pg	8	15	
GC06	A	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004			500.00	525.33	pg	5	15	
GC06	B	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004			500.00	511.90	pg	2	15	

CONTINUING CALIBRATION SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1248

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204473048039	24-NOV-2004 12:24	204473048001	24-NOV-2004			250.00	250.00	pg	0	15	
GC06	B	204473048039	24-NOV-2004 12:24	204473048001	24-NOV-2004			250.00	250.00	pg	0	15	
GC06	A	204473048049	24-NOV-2004 20:46	204473048001	24-NOV-2004			250.00	224.33	pg	-10	15	
GC06	B	204473048049	24-NOV-2004 20:46	204473048001	24-NOV-2004			250.00	243.74	pg	-3	15	

CONTINUING CALIBRATION SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204473048004	23-NOV-2004 13:26	204461493001	15-NOV-2004			250.00	269.07	pg	8	15	
GC06	B	204473048004	23-NOV-2004 13:26	204461493001	15-NOV-2004			250.00	266.67	pg	7	15	
GC06	A	204473048020	23-NOV-2004 22:22	204461493001	15-NOV-2004			250.00	280.78	pg	12	15	
GC06	B	204473048020	23-NOV-2004 22:22	204461493001	15-NOV-2004			250.00	284.12	pg	14	15	
GC06	A	204473048036	24-NOV-2004 07:14	204461493001	15-NOV-2004			250.00	242.33	pg	-3	15	
GC06	B	204473048036	24-NOV-2004 07:14	204461493001	15-NOV-2004			250.00	246.91	pg	-1	15	
GC06	A	204473048046	24-NOV-2004 19:06	204461493001	15-NOV-2004			250.00	242.72	pg	-3	15	
GC06	B	204473048046	24-NOV-2004 19:06	204461493001	15-NOV-2004			250.00	249.62	pg	0	15	

CONTINUING CALIBRATION SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004			250.00	271.88	pg	9	15	
GC06	B	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004			250.00	233.51	pg	-7	15	
GC06	A	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004			500.00	502.63	pg	1	15	
GC06	B	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004			500.00	512.92	pg	3	15	
GC06	A	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004			250.00	245.46	pg	-2	15	
GC06	B	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004			250.00	247.17	pg	-1	15	
GC06	A	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004			500.00	492.24	pg	-2	15	
GC06	B	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004			500.00	484.02	pg	-3	15	

CONTINUING CALIBRATION SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004	11170	11361	50.000	50.855	pg	2	15	
GC06	B	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004	19793	20813	50.000	52.577	pg	5	15	
GC06	A	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004	11170	10693	100.00	95.731	pg	-4	15	
GC06	B	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004	19793	18213	100.00	92.020	pg	-8	15	
GC06	A	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004	11170	10387	50.000	46.496	pg	-7	15	
GC06	B	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004	19793	18644	50.000	47.099	pg	-6	15	
GC06	A	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004	11170	11171	100.00	100.01	pg	0	15	
GC06	B	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004	19793	19013	100.00	96.060	pg	-4	15	

CONTINUING CALIBRATION SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004	8143.9	9163.8	50.000	56.262	pg	13	15	
GC06	B	204473048003	23-NOV-2004 12:41	204456284001	11-NOV-2004	9422.9	10990	50.000	58.318	pg	**17**	15	c+ confirm channel CW 12/6/04
GC06	A	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004	8143.9	7603.6	100.00	93.366	pg	-7	15	
GC06	B	204473048018	23-NOV-2004 21:16	204456284001	11-NOV-2004	9422.9	8861.8	100.00	94.045	pg	-6	15	
GC06	A	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004	8143.9	8052.7	50.000	49.440	pg	-1	15	
GC06	B	204473048034	24-NOV-2004 06:08	204456284001	11-NOV-2004	9422.9	9606.0	50.000	50.972	pg	2	15	
GC06	A	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004	8143.9	7737.8	100.00	95.014	pg	-5	15	
GC06	B	204473048045	24-NOV-2004 18:33	204456284001	11-NOV-2004	9422.9	8974.4	100.00	95.241	pg	-5	15	

+=high bias c=CCV

SEQUENCE SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204456284 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 11-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
008	316_008	X	hex			11-NOV-2004 20:11	1.0						
009	316_009	ICAL	pcb10_2			11-NOV-2004 20:44	1.0					1	
010	316_010	ICAL	pcb25_5			11-NOV-2004 21:18	1.0					2	
011	316_011	ICAL	pcb100_20			11-NOV-2004 21:51	1.0					3	
012	316_012	ICAL	pcb250_50			11-NOV-2004 22:24	1.0					4	
013	316_013	ICAL	pcb500_100			11-NOV-2004 22:57	1.0					5	
014	316_014	ICAL	pcb750_150			11-NOV-2004 23:30	1.0					6	
015	316_015	ICAL	pcb1k_200			12-NOV-2004 00:04	1.0					7	
017	316_017	X	hex			12-NOV-2004 01:10	1.0						
018	316_018	X	icv			12-NOV-2004 01:43	1.0					8	
019	316_019	X	icv			12-NOV-2004 02:17	1.0					8	
020	316_020	ICV	accu_1660			12-NOV-2004 15:44	1.0		1			9	

442

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS2171

SEQUENCE SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204461493 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 15-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
002	320_002	CCV	pcb250_50			15-NOV-2004 11:33	1.0		1			1	
003	320_003	X	ccv			15-NOV-2004 12:07	1.0					2	
004	320_004	CCV	ar1254			15-NOV-2004 12:43	1.0		1			3	
005	320_005	X	ccv			15-NOV-2004 13:17	1.0					3	

443

Stds used: 1=04WS2130 2=04WS1789 3=04WS2184

SEQUENCE SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204473048 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 23-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
002	328_002	X	ccv			23-NOV-2004 12:08	1.0			1	
003	328_003	CCV	pcb250_50			23-NOV-2004 12:41	1.0	1.0	1	1	
004	328_004	CCV	ar1254			23-NOV-2004 13:26	1.0	1.0	1	2	
007	328_007	BLANK	QC273463	96783	Soil	23-NOV-2004 15:10	1.0	0.6618	1		
008	328_008	LCS	QC273464	96783	Soil	23-NOV-2004 15:43	1.0	0.6592	1		
009	328_009	SAMPLE	176193-001	96783	Soil	23-NOV-2004 16:16	1.0	0.6739	1		
010	328_010	SAMPLE	176193-002	96783	Soil	23-NOV-2004 16:50	1.0	0.664	1		
011	328_011	SAMPLE	176193-003	96783	Soil	23-NOV-2004 17:23	1.0	0.6618	1		
012	328_012	SAMPLE	176193-004	96783	Soil	23-NOV-2004 17:56	1.0	0.6716	1		
013	328_013	SAMPLE	176210-001	96783	Soil	23-NOV-2004 18:30	1.0	0.6631	1		
014	328_014	MSS	176188-001	96783	Soil	23-NOV-2004 19:03	1.0	0.6653	1		
015	328_015	MS	QC273465	96783	Soil	23-NOV-2004 19:36	1.0	0.6658	1		
016	328_016	MSD	QC273466	96783	Soil	23-NOV-2004 20:09	1.0	0.6562	1		
018	328_018	CCV	pcb500_100			23-NOV-2004 21:16	1.0	1.0	1	3	
019	328_019	X	ccv			23-NOV-2004 21:49	1.0			3	
020	328_020	CCV	ar1254			23-NOV-2004 22:22	1.0	1.0	1	2	
021	328_021	X	ccv			23-NOV-2004 22:56	1.0			2	
023	328_023	SAMPLE	176210-002	96783	Soil	24-NOV-2004 00:02	1.0	0.6702	1		
024	328_024	SAMPLE	176210-003	96783	Soil	24-NOV-2004 00:35	1.0	0.6729	1		
025	328_025	SAMPLE	176210-004	96783	Soil	24-NOV-2004 01:09	1.0	0.6631	1		
026	328_026	SAMPLE	176210-005	96783	Soil	24-NOV-2004 01:42	1.0				
027	328_027	SAMPLE	176210-006	96783	Soil	24-NOV-2004 02:15	1.0	0.6757	1		
028	328_028	SAMPLE	176210-007	96783	Soil	24-NOV-2004 02:48	1.0	0.6579	1		
029	328_029	SAMPLE	176210-008	96783	Soil	24-NOV-2004 03:22	1.0	0.6748	1		
030	328_030	SAMPLE	176210-009	96783	Soil	24-NOV-2004 03:55	1.0	0.6609	1		
031	328_031	SAMPLE	176210-010	96783	Soil	24-NOV-2004 04:28	1.0	0.6605	1		
032	328_032	SAMPLE	176210-011	96783	Soil	24-NOV-2004 05:01	1.0				
034	328_034	CCV	pcb250_50			24-NOV-2004 06:08	1.0	1.0	1	1	
035	328_035	X	ccv			24-NOV-2004 06:41	1.0			1	
036	328_036	CCV	ar1254			24-NOV-2004 07:14	1.0	1.0	1	2	
037	328_037	X	ccv			24-NOV-2004 07:48	1.0			2	

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204473048 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 23-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	328_039	CCV	ar1248			24-NOV-2004 12:24	1.0	1.0			1	4	
041	328_041	SAMPLE	176210-005	96783	Soil	24-NOV-2004 13:31	1.0	0.6623			1		
042	328_042	SAMPLE	176210-011	96783	Soil	24-NOV-2004 14:04	1.0	0.6757			1		
044	328_044	X	ccv			24-NOV-2004 17:59	1.0					3	
045	328_045	CCV	pcb500_100			24-NOV-2004 18:33	1.0	1.0			1	3	
046	328_046	CCV	ar1254			24-NOV-2004 19:06	1.0	1.0			1	2	
047	328_047	X	ccv			24-NOV-2004 19:39	1.0					2	
049	328_049	CCV	ar1248			24-NOV-2004 20:46	1.0	1.0			1	4	
050	328_050	X	ccv			24-NOV-2004 21:19	1.0					4	
052	328_052	BLANK	QC273605	96820	Water	24-NOV-2004 22:26	2.0	0.01		1	1		
053	328_053	BS	QC273608	96820	Water	24-NOV-2004 22:59	2.0	0.01			1		
054	328_054	BSD	QC273609	96820	Water	24-NOV-2004 23:32	2.0	0.01		3	1		
055	328_055	SAMPLE	176144-003	96820	Water	25-NOV-2004 00:05	2.0	0.01111			1		
056	328_056	SAMPLE	176144-004	96820	Water	25-NOV-2004 00:39	2.0	0.01111			1		
057	328_057	SAMPLE	176144-005	96820	Water	25-NOV-2004 01:12	2.0	0.009804			1		
058	328_058	SAMPLE	176155-001	96820	Water	25-NOV-2004 01:45	2.0	0.009709			1		
059	328_059	SAMPLE	176155-002	96820	Water	25-NOV-2004 02:19	2.0	0.009524			1		
060	328_060	SAMPLE	176174-004	96820	Water	25-NOV-2004 02:52	2.0	0.01			1		
061	328_061	SAMPLE	176174-005	96820	Water	25-NOV-2004 03:25	2.0	0.01			1		
063	328_063	CCV	pcb250_50			25-NOV-2004 04:32	1.0	1.0			1	1	
064	328_064	X	ccv			25-NOV-2004 05:05	1.0					1	
065	328_065	CCV	ar1254			25-NOV-2004 05:39	1.0	1.0			1	2	
066	328_066	X	ccv			25-NOV-2004 06:12	1.0					2	
068	328_068	SAMPLE	176127-001	96820	Water	25-NOV-2004 07:18	2.0	0.009709			1		
069	328_069	SAMPLE	176127-003	96820	Water	25-NOV-2004 07:52	2.0	0.009524			1		
070	328_070	SAMPLE	176127-006	96820	Water	25-NOV-2004 08:25	2.0	0.009615			1		
071	328_071	SAMPLE	176127-007	96820	Water	25-NOV-2004 08:58	2.0	0.009524			1		
072	328_072	SAMPLE	176127-009	96820	Water	25-NOV-2004 09:32	2.0	0.009709			1		
073	328_073	SAMPLE	176127-010	96820	Water	25-NOV-2004 10:05	2.0	0.01			1		
074	328_074	SAMPLE	176127-011	96820	Water	25-NOV-2004 10:38	2.0	0.009434			1		
075	328_075	SAMPLE	176127-014	96820	Water	25-NOV-2004 11:12	2.0	0.009524			1		

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176210 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204473048 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 23-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
077	328_077	CCV	pcb500_100			25-NOV-2004 12:19	1.0	1.0		1	3	
078	328_078	X	ccv			25-NOV-2004 12:52	1.0				3	
079	328_079	CCV	ar1254			25-NOV-2004 13:25	1.0	1.0		1	2	
080	328_080	X	ccv			25-NOV-2004 13:59	1.0				2	

446

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064 4=04WS1542

Reporting Summary for 176210 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-001	Aroclor-1016	GC06	A	11/23/04 18:30
176210-001	Aroclor-1221	GC06	A	11/23/04 18:30
176210-001	Aroclor-1232	GC06	A	11/23/04 18:30
176210-001	Aroclor-1242	GC06	A	11/23/04 18:30
176210-001	Aroclor-1248	GC06	A	11/23/04 18:30
176210-001	Aroclor-1254	GC06	B	11/23/04 18:30
176210-001	Aroclor-1260	GC06	A	11/23/04 18:30
176210-001	TCMX	GC06	A	11/23/04 18:30
176210-001	Decachlorobiphenyl	GC06	A	11/23/04 18:30
176210-002	Aroclor-1016	GC06	A	11/24/04 00:02
176210-002	Aroclor-1221	GC06	A	11/24/04 00:02
176210-002	Aroclor-1232	GC06	A	11/24/04 00:02
176210-002	Aroclor-1242	GC06	A	11/24/04 00:02
176210-002	Aroclor-1248	GC06	A	11/24/04 00:02
176210-002	Aroclor-1254	GC06	A	11/24/04 00:02
176210-002	Aroclor-1260	GC06	A	11/24/04 00:02
176210-002	TCMX	GC06	A	11/24/04 00:02
176210-002	Decachlorobiphenyl	GC06	A	11/24/04 00:02
176210-003	Aroclor-1016	GC06	A	11/24/04 00:35
176210-003	Aroclor-1221	GC06	A	11/24/04 00:35
176210-003	Aroclor-1232	GC06	A	11/24/04 00:35
176210-003	Aroclor-1242	GC06	A	11/24/04 00:35
176210-003	Aroclor-1248	GC06	A	11/24/04 00:35
176210-003	Aroclor-1254	GC06	A	11/24/04 00:35
176210-003	Aroclor-1260	GC06	A	11/24/04 00:35
176210-003	TCMX	GC06	A	11/24/04 00:35
176210-003	Decachlorobiphenyl	GC06	A	11/24/04 00:35
176210-004	Aroclor-1016	GC06	A	11/24/04 01:09
176210-004	Aroclor-1221	GC06	A	11/24/04 01:09
176210-004	Aroclor-1232	GC06	A	11/24/04 01:09
176210-004	Aroclor-1242	GC06	A	11/24/04 01:09
176210-004	Aroclor-1248	GC06	A	11/24/04 01:09
176210-004	Aroclor-1254	GC06	A	11/24/04 01:09
176210-004	Aroclor-1260	GC06	A	11/24/04 01:09
176210-004	TCMX	GC06	A	11/24/04 01:09
176210-004	Decachlorobiphenyl	GC06	A	11/24/04 01:09
176210-005	Aroclor-1016	GC06	A	11/24/04 13:31
176210-005	Aroclor-1221	GC06	A	11/24/04 13:31
176210-005	Aroclor-1232	GC06	A	11/24/04 13:31
176210-005	Aroclor-1242	GC06	A	11/24/04 13:31
176210-005	Aroclor-1248	GC06	B	11/24/04 13:31
176210-005	Aroclor-1254	GC06	A	11/24/04 13:31
176210-005	Aroclor-1260	GC06	A	11/24/04 13:31
176210-005	TCMX	GC06	A	11/24/04 13:31
176210-005	Decachlorobiphenyl	GC06	A	11/24/04 13:31
176210-006	Aroclor-1016	GC06	A	11/24/04 02:15
176210-006	Aroclor-1221	GC06	A	11/24/04 02:15
176210-006	Aroclor-1232	GC06	A	11/24/04 02:15
176210-006	Aroclor-1242	GC06	A	11/24/04 02:15

Reporting Summary for 176210 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-006	Aroclor-1248	GC06	A	11/24/04 02:15
176210-006	Aroclor-1254	GC06	A	11/24/04 02:15
176210-006	Aroclor-1260	GC06	A	11/24/04 02:15
176210-006	TCMX	GC06	A	11/24/04 02:15
176210-006	Decachlorobiphenyl	GC06	A	11/24/04 02:15
176210-007	Aroclor-1016	GC06	A	11/24/04 02:48
176210-007	Aroclor-1221	GC06	A	11/24/04 02:48
176210-007	Aroclor-1232	GC06	A	11/24/04 02:48
176210-007	Aroclor-1242	GC06	A	11/24/04 02:48
176210-007	Aroclor-1248	GC06	A	11/24/04 02:48
176210-007	Aroclor-1254	GC06	A	11/24/04 02:48
176210-007	Aroclor-1260	GC06	A	11/24/04 02:48
176210-007	TCMX	GC06	A	11/24/04 02:48
176210-007	Decachlorobiphenyl	GC06	A	11/24/04 02:48
176210-008	Aroclor-1016	GC06	A	11/24/04 03:22
176210-008	Aroclor-1221	GC06	A	11/24/04 03:22
176210-008	Aroclor-1232	GC06	A	11/24/04 03:22
176210-008	Aroclor-1242	GC06	A	11/24/04 03:22
176210-008	Aroclor-1248	GC06	A	11/24/04 03:22
176210-008	Aroclor-1254	GC06	A	11/24/04 03:22
176210-008	Aroclor-1260	GC06	A	11/24/04 03:22
176210-008	TCMX	GC06	A	11/24/04 03:22
176210-008	Decachlorobiphenyl	GC06	A	11/24/04 03:22
176210-009	Aroclor-1016	GC06	A	11/24/04 03:55
176210-009	Aroclor-1221	GC06	A	11/24/04 03:55
176210-009	Aroclor-1232	GC06	A	11/24/04 03:55
176210-009	Aroclor-1242	GC06	A	11/24/04 03:55
176210-009	Aroclor-1248	GC06	A	11/24/04 03:55
176210-009	Aroclor-1254	GC06	A	11/24/04 03:55
176210-009	Aroclor-1260	GC06	A	11/24/04 03:55
176210-009	TCMX	GC06	A	11/24/04 03:55
176210-009	Decachlorobiphenyl	GC06	A	11/24/04 03:55
176210-010	Aroclor-1016	GC06	A	11/24/04 04:28
176210-010	Aroclor-1221	GC06	A	11/24/04 04:28
176210-010	Aroclor-1232	GC06	A	11/24/04 04:28
176210-010	Aroclor-1242	GC06	A	11/24/04 04:28
176210-010	Aroclor-1248	GC06	A	11/24/04 04:28
176210-010	Aroclor-1254	GC06	A	11/24/04 04:28
176210-010	Aroclor-1260	GC06	A	11/24/04 04:28
176210-010	TCMX	GC06	A	11/24/04 04:28
176210-010	Decachlorobiphenyl	GC06	A	11/24/04 04:28
176210-011	Aroclor-1016	GC06	A	11/24/04 14:04
176210-011	Aroclor-1221	GC06	A	11/24/04 14:04
176210-011	Aroclor-1232	GC06	A	11/24/04 14:04
176210-011	Aroclor-1242	GC06	A	11/24/04 14:04
176210-011	Aroclor-1248	GC06	B	11/24/04 14:04
176210-011	Aroclor-1254	GC06	A	11/24/04 14:04
176210-011	Aroclor-1260	GC06	A	11/24/04 14:04
176210-011	TCMX	GC06	A	11/24/04 14:04

Reporting Summary for 176210 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176210-011	Decachlorobiphenyl	GC06	A	11/24/04 14:04
QC273463	Aroclor-1016	GC06	A	11/23/04 15:10
QC273463	Aroclor-1221	GC06	A	11/23/04 15:10
QC273463	Aroclor-1232	GC06	A	11/23/04 15:10
QC273463	Aroclor-1242	GC06	A	11/23/04 15:10
QC273463	Aroclor-1248	GC06	A	11/23/04 15:10
QC273463	Aroclor-1254	GC06	A	11/23/04 15:10
QC273463	Aroclor-1260	GC06	A	11/23/04 15:10
QC273463	TCMX	GC06	A	11/23/04 15:10
QC273463	Decachlorobiphenyl	GC06	A	11/23/04 15:10
QC273464	Aroclor-1254	GC06	A	11/23/04 15:43
QC273464	TCMX	GC06	A	11/23/04 15:43
QC273464	Decachlorobiphenyl	GC06	A	11/23/04 15:43
QC273465	Aroclor-1254	GC06	A	11/23/04 19:36
QC273465	TCMX	GC06	A	11/23/04 19:36
QC273465	Decachlorobiphenyl	GC06	A	11/23/04 19:36
QC273466	Aroclor-1254	GC06	A	11/23/04 20:09
QC273466	TCMX	GC06	A	11/23/04 20:09
QC273466	Decachlorobiphenyl	GC06	A	11/23/04 20:09

Curtis & Tompkins Laboratories **Sample Preparation Summary** **23-NOV-2004 13:08**

Batch Number : 96783
Date Extracted: 22-NOV-2004
Extracted by : Brook N. Buswell
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225C
Spike #2 ID : 04WS2065A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176188-001			Espana Geotechnical	Soil	15.03	g	10	0.665336	1		.025	0		PCB	3665A	mss
176188-002			Espana Geotechnical	Soil	14.8	g	10	0.675676	1		.025	0		PCB	3665A	
176193-001			URS Corporation	Soil	14.84	g	10	0.673854	1		.025	0		PCB	3665A	
176193-002			URS Corporation	Soil	15.06	g	10	0.664011	1		.025	0		PCB	3665A	
176193-003			URS Corporation	Soil	15.11	g	10	0.661813	1		.025	0		PCB	3665A	
176193-004			URS Corporation	Soil	14.89	g	10	0.671592	1		.025	0		PCB	3665A	
176194-001			URS Corporation	Soil	15.19	g	10	0.658328	1		.025	0		PCB	3665A	
176195-001			URS Corporation	Soil	15.05	g	10	0.664452	1		.025	0		PCB	3665A	
176210-001			Treadwell & Rollo	Soil	15.08	g	10	0.663130	1		.025	0		PCB	3665A	
176210-002			Treadwell & Rollo	Soil	14.92	g	10	0.670241	1		.025	0		PCB	3665A	
176210-003			Treadwell & Rollo	Soil	14.86	g	10	0.672948	1		.025	0		PCB	3665A	
176210-004			Treadwell & Rollo	Soil	15.08	g	10	0.663130	1		.025	0		PCB	3665A	
176210-005			Treadwell & Rollo	Soil	15.1	g	10	0.662252	1		.025	0		PCB	3665A	
176210-006			Treadwell & Rollo	Soil	14.8	g	10	0.675676	1		.025	0		PCB	3665A	
176210-007			Treadwell & Rollo	Soil	15.2	g	10	0.657895	1		.025	0		PCB	3665A	
176210-008			Treadwell & Rollo	Soil	14.82	g	10	0.674764	1		.025	0		PCB	3665A	
176210-009			Treadwell & Rollo	Soil	15.13	g	10	0.660939	1		.025	0		PCB	3665A	
176210-010			Treadwell & Rollo	Soil	15.14	g	10	0.660502	1		.025	0		PCB	3665A	
176210-011			Treadwell & Rollo	Soil	14.8	g	10	0.675676	1		.025	0		PCB	3665A	
QC273463	MB			Soil	15.11	g	10	0.661813	1		.025	0		PCB	3665A	
QC273464	LCS			Soil	15.17	g	10	0.659196	1		.025	.025		PCB	3665A	
QC273465	MS	of 176188-001		Soil	15.02	g	10	0.665779	1		.025	.025		PCB	3665A	
QC273466	MSD	of 176188-001		Soil	15.24	g	10	0.656168	1		.025	.025		PCB	3665A	

Prep Chemist: JRD for BB 11/23/04 Reviewed By: Jennifer Dell Date: 11/23/04

Relinquished By: Jessie Mee Received By: [illegible] Date: 11/23/04

Curtis & Tompkins, Ltd. **PCB 8082 SOIL PREP LOG** BK 2014

Page 34

LIMS Batch No: 96783
LIMS Analysis PCB
Extracted by: BQ
Date Extracted: 11/22/07

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☑ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

	Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
	MB QC 273463	15.11	10.0	
	LCS 4	15.17		
	MS 5	15.02		acid turned pink when added to sample
	MSD 6	15.24		
5	176188-001A	15.03		MSS
	-002	14.80		
	176193-001	14.84		
	-002	15.06		
	-003	15.11		
10	-004	14.89		
	176194-001	15.19		
	176195-001	15.05		
	176210-001A	15.08		
	-002	14.92		
15	-003	14.86		
	-004	15.08		
	-005	15.10		
	-006	14.80		
	-007	15.20		
20	-008	14.82		
	-009	15.13		
	-010	15.14		
	-011	14.80		
		JRM	11/23/04	

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM440284 2	BQ 11/22/07
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	D040112	
0.0025 mL of surrogate solution was added to all samples	04WS2225C	
0.0025 mL of spike solution 1254 was added to all spikes	04WS2065A	
1:1 CH_2Cl_2 (lot# EM440244):Acetone(lot# EM440179) was added to all		
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted		
ASE Cellulose Filters used:	WHATMAN D28	
PFE (ASE) / soxhlets on at:	N/A	
PFE (ASE) / soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4		
Concentrated to volumes noted above after exchange to Hexane Lot#	CL905	JRM 11/23/04
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	A30032	
Centrifuged for 1 min; 10mL transferred to labelled vial		

11/22/07
Extraction Chemist / Date

Continued from page 1
Continued on page

Jennifer 11/23/04
Reviewed by / Date

BK2032

Project Soil Aliquot

Continued from Page

Sample ID	Weight(g)	Analysis	Comments
176195-001	49.99	TEHM	4, COMPA-D
-002	49.99	↓	
176195-001	29.83	8100	
-001	15.17	8081	
-001	15.05	PCB	
176194-001	30.29	8100	4, COMPA-D
-001	49.96	TEHM	
-001	15.10	8081	
-001	15.19	PCB	
176167-001	50.45	TEHM	
-002	50.14		
-003	49.92		
-004	50.09		
-005	50.21		
-006	50.00		
-007	Mcl 1/22 50.29 50.16		MSS
-008	50.33		
MS	50.01		176167-007A
MSD	50.36		↓
LCS	49.84		EM44028421
MB	50.33		↓
176193-001	30.14	Mcl 1/22 8081 8270	
-002	29.93		
-003	30.37		
-004	29.74		
176193-001	14.84	PCB	
-002	15.06		
-003	15.11		
-004	14.89		
176193-001	50.32	TEHM	
-002	50.40		
-003	49.76		
-004	50.32		

Continued on Page

Read and Understood By

Michelle Cantu — Signed

11/22/04 — Date

Signed

Date

Project 2010HW240T PK2032

Continued from Page

SAMPLE ID	WEIGHT(g)	ANALYSIS	COMMENTS
176193-001	15.21	8081	4, COMP A-D
-002	MLC 11/22 ~~15.06~~ 14.92		MSS
-003	15.14		
-004	14.91		
MS	14.87		176193-002
MSD	14.91		
LCS	15.14		EM440284
MB	15.13		
176177-001A	49.76	TEH	
-002	49.86		
-003	50.24		
-004	50.02		
-005	50.43		
-006	50.28		
-007	49.90		
176188-001A	15.03	PCB	MSS
-002	14.80		
176188-001A	30.07	8100	
-002	30.37		
-005	30.08		
-006	30.36		
-009	30.03		
MLC 11/22 ~~010~~			
176188-001A	50.45	TEHM	
-002	50.08		
-003	49.93		
-004	50.41		
-005	50.24		
-006	49.71		
-007	49.90		
-008	49.82		
-009	50.32		
-010	50.04		
MS	15.02	PCB	176185-001A
MSD	15.24		
LCS	15.17		EM440284
MB	15.11		

Continued on Page

Read and Understood By

Michelle Cuntz 11/22/09

Signed Date Signed Date

Project Soil Aliquot

Continued from Page

BK2032

Sample ID	Weight (g)	Analysis	Comments
176168-005A		8100	
-006			
-011			
-012			
-013			
-014			
-015			
-016			
176210-001A	15.08	PCB	
-002	14.92		
-003	14.86		
-004	15.08		
-005	15.10		
-006	14.80		
-007	15.20		
-008	14.82		
-009	15.13		
-010	15.14		
-011	14.80		
176210-001A	14.90	8081	
-002	14.94		
-003	15.19		
-004	14.98		
-005	15.18		
-006	15.07		
-007	14.99		
-008	15.11		
-009	14.96		
-010	15.07		
-011	14.82		
176210-007A	30.29	8270	
-007	50.06	TEHM	

Continued on Page

Read and Understood By

Michelle Curtis 11/22/04

Signed

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14B A	GC14B B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0					04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	11/02/04 4.4	11/02/04 3.7			08/02/03 2.3	08/02/03 2.0	10/30/04 4.0	10/30/04 2.9
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9					04/07/04 2.2	04/07/04 2.5

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX145[0.5]	Batch#:	96876
Lab ID:	176210-001	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 2%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.6	1.000
Arsenic	3.8	0.21	1.000
Barium	150	0.43	1.000
Beryllium	0.48	0.086	1.000
Cadmium	0.34	0.21	1.000
Chromium	39	0.43	1.000
Cobalt	11	0.86	1.000
Copper	62	0.43	1.000
Iron	24,000	43	10.00
Lead	18	0.13	1.000
Manganese	1,200	4.3	10.00
Molybdenum	ND	0.86	1.000
Nickel	31	0.86	1.000
Selenium	ND	0.21	1.000
Silver	ND	0.21	1.000
Thallium	ND	0.21	1.000
Vanadium	40	0.43	1.000
Zinc	47	0.86	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX145[1.0]	Batch#:	96876
Lab ID:	176210-002	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 5%

Analyte	Result	RL	Dilu Fac
Antimony	ND	2.8	1.000
Arsenic	2.9	0.23	1.000
Barium	14	0.47	1.000
Beryllium	0.15	0.093	1.000
Cadmium	ND	0.23	1.000
Chromium	41	0.47	1.000
Cobalt	5.3	0.93	1.000
Copper	3.4	0.47	1.000
Iron	12,000	23	5.000
Lead	3.5	0.14	1.000
Manganese	140	0.47	1.000
Molybdenum	ND	0.93	1.000
Nickel	24	0.93	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	31	0.47	1.000
Zinc	16	0.93	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX146[0.5]	Batch#:	96876
Lab ID:	176210-003	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 2%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.9	1.000
Arsenic	1.8	0.24	1.000
Barium	230	0.48	1.000
Beryllium	0.41	0.096	1.000
Cadmium	0.41	0.24	1.000
Chromium	72	0.48	1.000
Cobalt	14	0.96	1.000
Copper	92	0.48	1.000
Iron	22,000	48	10.00
Lead	30	0.14	1.000
Manganese	1,500	4.8	10.00
Molybdenum	ND	0.96	1.000
Nickel	53	0.96	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	25	0.48	1.000
Zinc	58	0.96	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX146[1.0]	Batch#:	96876
Lab ID:	176210-004	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 4%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.5	1.000
Arsenic	2.7	0.21	1.000
Barium	14	0.42	1.000
Beryllium	0.15	0.084	1.000
Cadmium	ND	0.21	1.000
Chromium	42	0.42	1.000
Cobalt	5.0	0.84	1.000
Copper	3.5	0.42	1.000
Iron	11,000	42	10.00
Lead	1.9	0.13	1.000
Manganese	140	0.42	1.000
Molybdenum	ND	0.84	1.000
Nickel	23	0.84	1.000
Selenium	ND	0.21	1.000
Silver	ND	0.21	1.000
Thallium	ND	0.21	1.000
Vanadium	28	0.42	1.000
Zinc	15	0.84	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX147[0.5]	Batch#:	96876
Lab ID:	176210-005	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 7%

Analyte	Result	RL	Diln Fac
Antimony	ND	3.0	1.000
Arsenic	2.9	0.25	1.000
Barium	170	0.51	1.000
Beryllium	0.37	0.10	1.000
Cadmium	0.43	0.25	1.000
Chromium	36	0.51	1.000
Cobalt	12	1.0	1.000
Copper	57	0.51	1.000
Iron	20,000	51	10.00
Lead	26	0.15	1.000
Manganese	1,300	5.1	10.00
Molybdenum	ND	1.0	1.000
Nickel	36	1.0	1.000
Selenium	ND	0.25	1.000
Silver	ND	0.25	1.000
Thallium	ND	0.25	1.000
Vanadium	34	0.51	1.000
Zinc	43	1.0	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX147[1.5]	Batch#:	96876
Lab ID:	176210-006	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 5%

Analyte	Result	RL	Dilu Fac
Antimony	ND	3.1	1.000
Arsenic	2.9	0.26	1.000
Barium	20	0.52	1.000
Beryllium	0.16	0.10	1.000
Cadmium	0.27	0.26	1.000
Chromium	52	0.52	1.000
Cobalt	5.9	1.0	1.000
Copper	3.8	0.52	1.000
Iron	14,000	52	10.00
Lead	1.8	0.16	1.000
Manganese	200	0.52	1.000
Molybdenum	ND	1.0	1.000
Nickel	23	1.0	1.000
Selenium	ND	0.26	1.000
Silver	ND	0.26	1.000
Thallium	ND	0.26	1.000
Vanadium	38	0.52	1.000
Zinc	16	1.0	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX149[0.5]	Batch#:	96876
Lab ID:	176210-007	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 4%

Analyte	Result	RL	Dilu Fac
Antimony	ND	2.7	1.000
Arsenic	3.3	0.22	1.000
Barium	12	0.45	1.000
Beryllium	0.13	0.090	1.000
Cadmium	ND	0.22	1.000
Chromium	36	0.45	1.000
Cobalt	4.5	0.90	1.000
Copper	6.2	0.45	1.000
Iron	12,000	45	10.00
Lead	3.0	0.13	1.000
Manganese	120	0.45	1.000
Molybdenum	ND	0.90	1.000
Nickel	20	0.90	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	30	0.45	1.000
Zinc	16	0.90	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX150[0.5]	Batch#:	96876
Lab ID:	176210-008	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 4%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.7	1.000
Arsenic	1.4	0.23	1.000
Barium	91	0.46	1.000
Beryllium	0.31	0.091	1.000
Cadmium	0.27	0.23	1.000
Chromium	18	0.46	1.000
Cobalt	7.1	0.91	1.000
Copper	50	0.46	1.000
Iron	17,000	46	10.00
Lead	20	0.14	1.000
Manganese	680	0.46	1.000
Molybdenum	ND	0.91	1.000
Nickel	13	0.91	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	23	0.46	1.000
Zinc	18	0.91	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX150[2.5]	Batch#:	96876
Lab ID:	176210-009	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 6%

Analyte	Result	RL	Dilu Fac
Antimony	ND	2.8	1.000
Arsenic	2.7	0.23	1.000
Barium	30	0.46	1.000
Beryllium	0.16	0.092	1.000
Cadmium	0.31	0.23	1.000
Chromium	43	0.46	1.000
Cobalt	6.4	0.92	1.000
Copper	8.0	0.46	1.000
Iron	15,000	46	10.00
Lead	5.3	0.14	1.000
Manganese	200	0.46	1.000
Molybdenum	ND	0.92	1.000
Nickel	25	0.92	1.000
Selenium	ND	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	37	0.46	1.000
Zinc	20	0.92	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	DUP112204A	Batch#:	96876
Lab ID:	176210-010	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 6%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.9	1.000
Arsenic	3.3	0.24	1.000
Barium	23	0.49	1.000
Beryllium	0.15	0.098	1.000
Cadmium	ND	0.24	1.000
Chromium	33	0.49	1.000
Cobalt	5.4	0.98	1.000
Copper	5.0	0.49	1.000
Iron	14,000	49	10.00
Lead	3.0	0.15	1.000
Manganese	170	0.49	1.000
Molybdenum	ND	0.98	1.000
Nickel	21	0.98	1.000
Selenium	ND	0.24	1.000
Silver	ND	0.24	1.000
Thallium	ND	0.24	1.000
Vanadium	34	0.49	1.000
Zinc	18	0.98	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX148[0.5]	Batch#:	96876
Lab ID:	176210-011	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04

Moisture: 8%

Analyte	Result	RL	Diln Fac
Antimony	ND	3.0	1.000
Arsenic	2.4	0.25	1.000
Barium	330	0.51	1.000
Beryllium	0.56	0.10	1.000
Cadmium	0.49	0.25	1.000
Chromium	26	0.51	1.000
Cobalt	10	1.0	1.000
Copper	97	0.51	1.000
Iron	26,000	51	10.00
Lead	33	0.15	1.000
Manganese	2,000	5.1	10.00
Molybdenum	ND	1.0	1.000
Nickel	32	1.0	1.000
Selenium	ND	0.25	1.000
Silver	ND	0.25	1.000
Thallium	ND	0.25	1.000
Vanadium	33	0.51	1.000
Zinc	71	1.0	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	96814
Field ID:	BB3EX149[0.5]	Sampled:	11/22/04
Matrix:	Soil	Received:	11/22/04
Units:	mg/Kg	Prepared:	11/23/04
Diln Fac:	1.000	Analyzed:	11/23/04

Type	Lab ID	Result	RL	Basis	Moisture
SAMPLE	176210-007	ND	0.020	dry	4%
BLANK	QC273574	ND	0.020	as received	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	96876
Units:	mg/Kg	Prepared:	11/24/04
Basis:	as received	Analyzed:	11/24/04
Diln Fac:	1.000		

Type: BS Lab ID: QC273840

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	94.00	94	75-125
Arsenic	50.00	50.50	101	75-125
Barium	100.0	102.0	102	75-125
Beryllium	2.500	2.440	98	75-125
Cadmium	10.00	9.900	99	75-125
Chromium	100.0	94.00	94	75-125
Cobalt	25.00	23.35	93	75-125
Copper	12.50	11.95	96	75-125
Iron	1,000	847.0	85	75-125
Lead	100.0	95.00	95	75-125
Manganese	25.00	22.15	89	75-125
Molybdenum	20.00	18.45	92	75-125
Nickel	25.00	23.85	95	75-125
Selenium	50.00	47.85	96	75-125
Silver	10.00	9.550	96	75-125
Thallium	50.00	49.00	98	75-125
Vanadium	25.00	23.85	95	75-125
Zinc	25.00	23.05	92	75-125

Type: BSD Lab ID: QC273841

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	95.50	96	75-125	2	30
Arsenic	50.00	50.00	100	75-125	1	30
Barium	100.0	102.0	102	75-125	0	30
Beryllium	2.500	2.425	97	75-125	1	30
Cadmium	10.00	9.950	100	75-125	1	30
Chromium	100.0	94.00	94	75-125	0	30
Cobalt	25.00	23.40	94	75-125	0	30
Copper	12.50	11.95	96	75-125	0	30
Iron	1,000	849.0	85	75-125	0	30
Lead	100.0	96.00	96	75-125	1	30
Manganese	25.00	22.15	89	75-125	0	30
Molybdenum	20.00	18.40	92	75-125	0	30
Nickel	25.00	23.85	95	75-125	0	30
Selenium	50.00	48.65	97	75-125	2	30
Silver	10.00	9.500	95	75-125	1	30
Thallium	50.00	48.85	98	75-125	0	30
Vanadium	25.00	23.75	95	75-125	0	30
Zinc	25.00	23.10	92	75-125	0	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	96876
MSS Lab ID:	176180-001	Sampled:	11/19/04
Matrix:	Soil	Received:	11/19/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04
Diln Fac:	1.000		

Type: MS Moisture: 26%
Lab ID: QC273842

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.540	125.1	49.74	38 *	75-125
Arsenic	6.219	62.56	56.37	80	75-125
Barium	522.4	125.1	573.7	41 NM	75-125
Beryllium	0.6507	3.128	3.541	92	75-125
Cadmium	0.9447	12.51	13.45	100	75-125
Chromium	117.0	125.1	226.5	88	75-125
Cobalt	21.02	31.28	57.87	118	75-125
Copper	48.49	15.64	68.82	130 *	75-125
Iron	37,970	1,251	23,480 >LR	-1158 NM	75-12
Lead	564.3	125.1	694.4	104 NM	75-125
Manganese	623.7	31.28	1,527 >LR	2886 NM	75-125
Molybdenum	3.278	25.03	24.21	84	75-125
Nickel	88.21	31.28	122.0	108	75-125
Selenium	0.2208	62.56	58.43	93	75-125
Silver	<0.1230	12.51	11.95	96	75-125
Thallium	<0.2703	62.56	56.93	91	75-125
Vanadium	58.50	31.28	83.21	79	75-125
Zinc	187.7	31.28	308.4 >LR	386 NM	75-125

Type: MSD Moisture: 26%
Lab ID: QC273843

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	108.1	41.84	36 *	75-125	3	30
Arsenic	54.05	47.51	76	75-125	4	30
Barium	108.1	551.4 >LR	27 NM	75-125	NC	30
Beryllium	2.703	3.114	91	75-125	1	30
Cadmium	10.81	10.81	91	75-125	8	30
Chromium	108.1	206.5	83	75-125	2	30
Cobalt	27.03	50.81	110	75-125	5	30
Copper	13.51	49.78	10 *	75-125	29	30
Iron	1,081	22,270 >LR	-1452 NM	75-125	NC	30
Lead	108.1	489.7	-69 NM	75-125	32 *	30
Manganese	27.03	859.5	872 NM	75-125	NC	30
Molybdenum	21.62	19.51	75	75-125	9	30
Nickel	27.03	111.9	88	75-125	5	30
Selenium	54.05	49.62	91	75-125	2	30
Silver	10.81	10.32	96	75-125	0	30
Thallium	54.05	48.32	89	75-125	2	30
Vanadium	27.03	76.76	68 *	75-125	3	30
Zinc	27.03	146.5	-152 NM	75-125	NC	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	96876
MSS Lab ID:	176180-011	Sampled:	11/19/04
Matrix:	Soil	Received:	11/19/04
Units:	mg/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/24/04
Diln Fac:	1.000		

Type: MS Moisture: 22%
Lab ID: QC273846

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.443	117.6	53.05	43 *	75-125
Arsenic	5.219	58.81	52.93	81	75-125
Barium	261.9	117.6	374.6	96	75-125
Beryllium	0.8104	2.940	3.534	93	75-125
Cadmium	0.4088	11.76	11.41	94	75-125
Chromium	94.94	117.6	204.7	93	75-125
Cobalt	17.84	29.40	43.93	89	75-125
Copper	25.58	14.70	39.93	98	75-125
Iron	27,850	1,176	25,620 >LR	-189 NM	75-125
Lead	26.97	117.6	141.1	97	75-125
Manganese	677.3	29.40	611.6	-223 NM	75-125
Molybdenum	0.5933	23.52	19.47	80	75-125
Nickel	97.97	29.40	127.0	99	75-125
Selenium	0.2606	58.81	52.99	90	75-125
Silver	<0.1192	11.76	11.12	95	75-125
Thallium	<0.2564	58.81	52.99	90	75-125
Vanadium	55.52	29.40	85.27	101	75-125
Zinc	39.07	29.40	70.57	107	75-125

Type: MSD Moisture: 22%
Lab ID: QC273847

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	125.7	56.31	43 *	75-125	1	30
Arsenic	62.85	58.45	85	75-125	4	30
Barium	125.7	467.6	164 *	75-125	20	30
Beryllium	3.142	3.783	95	75-125	2	30
Cadmium	12.57	12.19	94	75-125	0	30
Chromium	125.7	228.8	106	75-125	7	30
Cobalt	31.42	46.63	92	75-125	2	30
Copper	15.71	42.55	108	75-125	4	30
Iron	1,257	27,190 >LR	-52 NM	75-125	NC	30
Lead	125.7	202.4	140 *	75-125	30	30
Manganese	31.42	586.3	-289 NM	75-125	5	30
Molybdenum	25.14	21.30	82	75-125	3	30
Nickel	31.42	131.3	106	75-125	2	30
Selenium	62.85	56.44	89	75-125	0	30
Silver	12.57	11.94	95	75-125	1	30
Thallium	62.85	58.13	93	75-125	3	30
Vanadium	31.42	88.61	105	75-125	1	30
Zinc	31.42	79.81	130 *	75-125	9	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

45.0

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176210	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Basis:	dry
Type:	Serial Dilution	Batch#:	96876
MSS Lab ID:	176180-001	Sampled:	11/19/04
Lab ID:	QC273844	Received:	11/19/04
Matrix:	Soil	Analyzed:	11/24/04
Units:	mg/Kg		

Moisture: 26%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Antimony	ND	3.754	4.7 J	19		10	5.000
Arsenic	6.219	0.3128	6.4	1.6	4	10	5.000
Barium	522.4	0.6256	490	3.1	6	10	5.000
Beryllium	0.6507	0.1251	0.89	0.63	38 *	10	5.000
Cadmium	0.9447	0.3128	0.78 J	1.6		10	5.000
Chromium	117.0	0.6256	120	3.1	0	10	5.000
Cobalt	21.02	1.251	21	6.3	0	10	5.000
Copper	48.49	0.6256	46	3.1	5	10	5.000
Iron	37,970	62.56	39,000	310	4	10	50.00
Lead	564.3	0.1877	560	0.94	1	10	5.000
Manganese	623.7	0.6256	600	3.1	3	10	5.000
Molybdenum	3.278	1.251	3.8 J	6.3		10	5.000
Nickel	88.21	1.251	90	6.3	2	10	5.000
Selenium	ND	0.3128	1.2 J	1.6		10	5.000
Silver	ND	0.3128	ND	1.6		10	5.000
Thallium	ND	0.3128	ND	1.6		10	5.000
Vanadium	58.50	0.6256	58	3.1	1	10	5.000
Zinc	187.7	1.251	180	6.3	2	10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74474187100	Seqnum	: 74474187105
Filename	: tr255947	Filename	: tr255952
IDF	: 1.0	IDF	: 1.0
PDF	: 46.30	PDF	: 46.30
Run type	: MSS	Run type	: PDS
Samplenum	: 176180-001	Samplenum	: QC273845
Matrix	: Soil	Matrix	: Soil
Batchnum	: 96876	Batchnum	: 96876
Inj	: 24-NOV-2004 16:12	Inj	: 24-NOV-2004 16:37
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	40.60	2000	1770	86	16-120	u
Arsenic	99.40	1000	1030	93	62-120	u
Barium	8350	2000	10100 >LR	88	51-137	: >LR u
Beryllium	10.40	49.999999999999	54.00	87	70-120	u
Cadmium	15.10	200	190.0	87	61-120	u
Calcium	*** usable MSS data not found ***					
Chromium	1870	2000	3590	86	60-120	u
Cobalt	336.0	499.999999999999	767.0	86	56-120	u
Copper	775.0	250.000000000001	999.0	90	47-144	u
Iron	*** usable MSS data not found ***					
Lead	9020	2000	10900	94	47-126	: u
Magnesium	84560	20000	102000 >LR	87	44-152	: >LR
Manganese	9970	499.999999999999	10200	46	62-131	: u
Molybdenum	52.40	400	384.0	83	57-120	u
Nickel	1410	499.999999999999	1830	84	41-138	u
Selenium	3.530	1000	940.0	94	35-122	u
Silver	ND	200	182.0	91	71-120	u
Thallium	ND	1000	860.0	86	53-120	u
Vanadium	935.0	499.999999999999	1360	85	48-136	u
Zinc	3000	499.999999999999	3420 >LR	84	38-144	: >LR u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful >LR=overrange u=use

Method: 6010B Standard: blank
Run Time: 11/24/04 07:00:04

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.000	.002	-.001	.004	-.267	.006	.000
SDev	.002	.003	.001	.000	.004	.002	.000
%RSD	569.	168.	68.9	1.36	1.41	26.2	82.4
#1	-.002	.004	-.002	.004	-.269	.007	.001
#2	.001	-.000	-.001	.004	-.264	.005	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.004	.007	.001	-.000	.001	-.005
SDev	.001	.001	.002	.005	.001	.002	.002
%RSD	170.	19.0	30.3	624.	274.	137.	44.1
#1	-.001	.005	.008	.004	.000	.000	-.004
#2	.000	.004	.005	-.002	-.001	.002	-.007

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	-.001	-.002	-.003	.001	.045	.0725	-.0051
SDev	.002	.000	.001	.000	.000	.0004	.0000
%RSD	202.	2.26	49.7	8.07	.407	.6197	.3091
#1	-.002	-.002	-.004	.001	.045	.0728	-.0051
#2	.000	-.002	-.002	.001	.045	.0722	-.0051

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0018	.0002	.001	.387
SDev	.0004	.0001	.000	.001
%RSD	20.96	29.02	41.3	.297
#1	-.0020	.0002	.001	.388
#2	-.0015	.0002	.001	.386

Method: 6010B Standard: cst hi
Run Time: 11/24/04 07:03:36

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.13	.632	.237	18.3	3.19	1.14	.258
SDev	.02	.004	.003	.1	.04	.01	.003
%RSD	1.87	.673	1.06	.691	1.24	1.03	1.04
#1	1.11	.635	.235	18.2	3.17	1.13	.256
#2	1.14	.629	.239	18.4	3.22	1.14	.260

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.753	.528	.852	.848	1.78	1.96	.256
SDev	.008	.005	.006	.003	.06	.02	.002
%RSD	1.05	1.02	.709	.388	3.11	.985	.894
#1	.747	.524	.856	.846	1.74	1.95	.254
#2	.758	.532	.848	.850	1.82	1.98	.257

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.285	.309	.153	.937	.211	.1795	.3230
SDev	.012	.003	.003	.008	.002	.0002	.0032
%RSD	4.14	.865	2.18	.819	.759	.1108	.9779
#1	.276	.307	.151	.932	.210	.1794	.3208
#2	.293	.311	.156	.943	.213	.1797	.3252

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1292	.1880	1.14	7.79
SDev	.0015	.0023	.01	.07
%RSD	1.202	1.214	.815	.848
#1	.1281	.1864	1.13	7.75
#2	.1303	.1896	1.15	7.84

Standardization Report 11/24/04 07:07:03 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	882.493	.313766	11/24/04 07:03:36
Sb206A	206.832	Multiple	Standards	1554.79	-2.81171	11/24/04 07:03:36
As1890	189.042	Multiple	Standards	2101.30	2.36080	11/24/04 07:03:36
Ba4934	493.409	Multiple	Standards	54.5463	-.209693	11/24/04 07:03:36
Be3130	313.042	Multiple	Standards	27.9106	7.43934	11/24/04 07:03:36
Cd2265	226.502	Multiple	Standards	88.4095	-.504368	11/24/04 07:03:36
Cr2677	267.716	Multiple	Standards	776.770	-.286032	11/24/04 07:03:36
Co2286	228.616	Multiple	Standards	665.469	.375296	11/24/04 07:03:36
Cu3247	324.754	Multiple	Standards	381.660	-1.56553	11/24/04 07:03:36
Pb2203	220.351	Multiple	Standards	592.158	-4.11176	11/24/04 07:03:36
Pb220A	220.352	Multiple	Standards	584.948	-.428421	11/24/04 07:03:36
Mo2020	202.030	Multiple	Standards	562.185	.139717	11/24/04 07:03:36
Ni2316	231.604	Multiple	Standards	254.933	-.313552	11/24/04 07:03:36
Se1960	196.021	Multiple	Standards	1914.43	10.2644	11/24/04 07:03:36
Se196A	196.022	Multiple	Standards	1748.19	1.56577	11/24/04 07:03:36
Ag3280	328.068	Multiple	Standards	322.410	.591777	11/24/04 07:03:36
Tl1908	190.864	Multiple	Standards	3227.11	9.36971	11/24/04 07:03:36
V_2924	292.402	Multiple	Standards	533.822	-.329914	11/24/04 07:03:36
Zn2138	213.856	Multiple	Standards	621.140	-28.0323	11/24/04 07:03:36
Al3082	308.215	Multiple	Standards	9515.04	-689.720	11/24/04 07:03:36
Ca3179	317.933	Multiple	Standards	6096.00	30.8553	11/24/04 07:03:36
Fe2714	271.441	Multiple	Standards	7994.50	14.0661	11/24/04 07:03:36
Mg2790	279.079	Multiple	Standards	10643.7	-2.05859	11/24/04 07:03:36
Mn2576	257.610	Multiple	Standards	87.8062	-.062665	11/24/04 07:03:36
Pb sum	220.353	NONE	NONE	1.00000	.000000	*11/24/04 07:03:36
Sb sum	206.838	NONE	NONE	1.00000	.000000	*11/24/04 07:03:36
Se sum	196.026	NONE	NONE	1.00000	.000000	*11/24/04 07:03:36
Ti3349	334.941	Multiple	Standards	135.003	-52.2289	11/24/04 07:03:36

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187001

Run Name :
Filename : tr255847

Injected : 24-NOV-2004 07:07
Caltype :

Standards: 04WS1891

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	972.2000	ug/L	-3	5	
Antimony	1000.000	981.0000	ug/L	-2	5	
Arsenic	500.0000	501.0000	ug/L	0	5	
Barium	1000.000	985.0000	ug/L	-2	5	
Beryllium	100.0000	99.10000	ug/L	-1	5	
Cadmium	100.0000	98.80000	ug/L	-1	5	
Calcium	2000.000	1976.000	ug/L	-1	5	
Chromium	200.0000	197.0000	ug/L	-2	5	
Cobalt	500.0000	493.0000	ug/L	-1	5	
Copper	200.0000	198.0000	ug/L	-1	5	
Iron	1000.000	985.6000	ug/L	-1	5	
Lead	500.0000	489.0000	ug/L	-2	5	
Magnesium	2000.000	1976.000	ug/L	-1	5	
Manganese	100.0000	98.90000	ug/L	-1	5	
Molybdenum	1000.000	1000.000	ug/L	0	5	
Nickel	500.0000	493.0000	ug/L	-1	5	
Selenium	500.0000	497.0000	ug/L	-1	5	
Silver	100.0000	98.90000	ug/L	-1	5	
Thallium	500.0000	507.0000	ug/L	1	5	
Titanium	1000.000	986.0000	ug/L	-1	5	
Vanadium	500.0000	494.0000	ug/L	-1	5	
Zinc	100.0000	97.90000	ug/L	-2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187002
Run Name :
Filename : tr255848
Injected : 24-NOV-2004 07:11
Caltype :

Standards: 04WS2066

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	479.1000	ug/L	-4	10	
Antimony	500.0000	505.0000	ug/L	1	10	
Arsenic	250.0000	252.0000	ug/L	1	10	
Barium	500.0000	489.0000	ug/L	-2	10	
Beryllium	50.00000	49.30000	ug/L	-1	10	
Cadmium	50.00000	49.90000	ug/L	0	10	
Calcium	1000.000	993.3000	ug/L	-1	10	
Chromium	100.0000	100.0000	ug/L	0	10	
Cobalt	250.0000	243.0000	ug/L	-3	10	
Copper	100.0000	98.30000	ug/L	-2	10	
Iron	500.0000	497.5000	ug/L	-1	10	
Lead	250.0000	249.0000	ug/L	0	10	
Magnesium	1000.000	1003.000	ug/L	0	10	
Manganese	50.00000	48.50000	ug/L	-3	10	
Molybdenum	500.0000	511.0000	ug/L	2	10	
Nickel	250.0000	248.0000	ug/L	-1	10	
Selenium	250.0000	252.0000	ug/L	1	10	
Silver	50.00000	51.20000	ug/L	2	10	
Thallium	250.0000	247.0000	ug/L	-1	10	
Titanium	500.0000	504.0000	ug/L	1	10	
Vanadium	250.0000	246.0000	ug/L	-2	10	
Zinc	50.00000	47.40000	ug/L	-5	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187004
Run Name :
Filename : tr255850
Injected : 24-NOV-2004 07:30
Caltype :

Standards: 04WS1931

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	105.8000	ug/L	6	50	
Antimony	60.00000	58.00000	ug/L	-3	50	
Arsenic	5.000000	7.340000	ug/L	47	50	
Barium	10.00000	9.820000	ug/L	-2	50	
Beryllium	2.000000	1.770000	ug/L	-12	50	
Cadmium	5.000000	5.200000	ug/L	4	50	
Calcium	200.0000	208.3000	ug/L	4	50	
Chromium	10.00000	10.20000	ug/L	2	50	
Cobalt	20.00000	19.10000	ug/L	-5	50	
Copper	10.00000	9.500000	ug/L	-5	50	
Iron	100.0000	106.9000	ug/L	7	50	
Lead	3.000000	3.120000	ug/L	4	50	
Magnesium	200.0000	205.8000	ug/L	3	50	
Manganese	10.00000	9.730000	ug/L	-3	50	
Molybdenum	20.00000	20.50000	ug/L	3	50	
Nickel	20.00000	20.00000	ug/L	0	50	
Selenium	5.000000	5.730000	ug/L	15	50	
Silver	5.000000	4.840000	ug/L	-3	50	
Thallium	5.000000	3.420000	ug/L	-32	50	
Vanadium	10.00000	9.380000	ug/L	-6	50	
Zinc	20.00000	18.80000	ug/L	-6	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187014
Run Name :
Filename : tr255860
IDF : 1.0
Injected : 24-NOV-2004 08:29
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	526.7000	ug/L	5	10	
Antimony		500.0000	500.0000	ug/L	0	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	49.20000	ug/L	-2	10	
Cadmium		50.00000	49.20000	ug/L	-2	10	
Calcium		1000.000	1024.000	ug/L	2	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	244.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	565.9000	ug/L	**13**	10	c+ **
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	998.4000	ug/L	0	10	
Manganese		50.00000	50.70000	ug/L	1	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	53.10000	ug/L	6	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	513.0000	ug/L	3	10	
Vanadium		250.0000	249.0000	ug/L	0	10	
Zinc		50.00000	47.00000	ug/L	-6	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187026

Run Name :
Filename : tr255872

IDF : 1.0
Injected : 24-NOV-2004 09:26
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	812.1000	ug/L	8	10	
Antimony		750.0000	752.0000	ug/L	0	10	
Arsenic		375.0000	372.0000	ug/L	-1	10	
Barium		750.0000	736.0000	ug/L	-2	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	73.30000	ug/L	-2	10	
Calcium		1500.000	1601.000	ug/L	7	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	157.0000	ug/L	5	10	
Iron		750.0000	864.5000	ug/L	**15**	10	c+ **
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1534.000	ug/L	2	10	
Manganese		75.00000	78.60000	ug/L	5	10	
Molybdenum		750.0000	767.0000	ug/L	2	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	374.0000	ug/L	0	10	
Silver		75.00000	78.50000	ug/L	5	10	
Thallium		375.0000	363.0000	ug/L	-3	10	
Titanium		750.0000	789.0000	ug/L	5	10	
Vanadium		375.0000	383.0000	ug/L	2	10	
Zinc		75.00000	71.10000	ug/L	-5	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187037

Run Name :
Filename : tr255883

IDF : 1.0
Injected : 24-NOV-2004 10:20
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	498.6000	ug/L	0	10	
Antimony		500.0000	493.0000	ug/L	-1	10	
Arsenic		250.0000	242.0000	ug/L	-3	10	
Barium		500.0000	476.0000	ug/L	-5	10	
Beryllium		50.00000	51.10000	ug/L	2	10	
Cadmium		50.00000	47.40000	ug/L	-5	10	
Calcium		1000.000	1094.000	ug/L	9	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	248.0000	ug/L	-1	10	
Copper		100.0000	106.0000	ug/L	6	10	
Iron		500.0000	599.6000	ug/L	**20**	10	c+ **
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1021.000	ug/L	2	10	
Manganese		50.00000	52.90000	ug/L	6	10	
Molybdenum		500.0000	513.0000	ug/L	3	10	
Nickel		250.0000	243.0000	ug/L	-3	10	
Selenium		250.0000	244.0000	ug/L	-2	10	
Silver		50.00000	53.60000	ug/L	7	10	
Thallium		250.0000	236.0000	ug/L	-6	10	
Titanium		500.0000	525.0000	ug/L	5	10	
Vanadium		250.0000	255.0000	ug/L	2	10	
Zinc		50.00000	46.60000	ug/L	-7	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187049
Run Name :
Filename : tr255895
IDF : 1.0
Injected : 24-NOV-2004 11:23
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	746.2000	ug/L	-1	10	
Antimony		750.0000	724.0000	ug/L	-3	10	
Arsenic		375.0000	351.0000	ug/L	-6	10	
Barium		750.0000	685.0000	ug/L	-9	10	
Beryllium		75.00000	76.80000	ug/L	2	10	
Cadmium		75.00000	67.40000	ug/L	-10	10	
Calcium		1500.000	1640.000	ug/L	9	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	158.0000	ug/L	5	10	
Iron		750.0000	859.5000	ug/L	**15**	10	c+ **
Lead		375.0000	371.0000	ug/L	-1	10	
Magnesium		1500.000	1527.000	ug/L	2	10	
Manganese		75.00000	79.00000	ug/L	5	10	
Molybdenum		750.0000	760.0000	ug/L	1	10	
Nickel		375.0000	352.0000	ug/L	-6	10	
Selenium		375.0000	361.0000	ug/L	-4	10	
Silver		75.00000	77.80000	ug/L	4	10	
Thallium		375.0000	346.0000	ug/L	-8	10	
Titanium		750.0000	779.0000	ug/L	4	10	
Vanadium		375.0000	380.0000	ug/L	1	10	
Zinc		75.00000	67.80000	ug/L	-10	10	

+=high bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187074

Run Name :
Filename : tr255920

IDF : 1.0
Injected : 24-NOV-2004 13:24
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	760.4000	ug/L	1	10	
Antimony		750.0000	745.0000	ug/L	-1	10	
Arsenic		375.0000	377.0000	ug/L	1	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	73.50000	ug/L	-2	10	
Cadmium		75.00000	76.80000	ug/L	2	10	
Calcium		1500.000	1449.000	ug/L	-3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	147.0000	ug/L	-2	10	
Iron		750.0000	750.2000	ug/L	0	10	
Lead		375.0000	370.0000	ug/L	-1	10	
Magnesium		1500.000	1501.000	ug/L	0	10	
Manganese		75.00000	73.10000	ug/L	-3	10	
Molybdenum		750.0000	734.0000	ug/L	-2	10	
Nickel		375.0000	377.0000	ug/L	1	10	
Selenium		375.0000	364.0000	ug/L	-3	10	
Silver		75.00000	74.90000	ug/L	0	10	
Thallium		375.0000	362.0000	ug/L	-3	10	
Titanium		750.0000	761.0000	ug/L	1	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	71.30000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187061
Run Name :
Filename : tr255907
IDF : 1.0
Injected : 24-NOV-2004 12:21
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	524.6000	ug/L	5	10	
Antimony		500.0000	491.0000	ug/L	-2	10	
Arsenic		250.0000	246.0000	ug/L	-2	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	48.50000	ug/L	-3	10	
Cadmium		50.00000	50.00000	ug/L	0	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	99.20000	ug/L	-1	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	99.20000	ug/L	-1	10	
Iron		500.0000	601.7000	ug/L	**20**	10	c+ **
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	1037.000	ug/L	4	10	
Manganese		50.00000	49.50000	ug/L	-1	10	
Molybdenum		500.0000	484.0000	ug/L	-3	10	
Nickel		250.0000	247.0000	ug/L	-1	10	
Selenium		250.0000	240.0000	ug/L	-4	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	509.0000	ug/L	2	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	47.20000	ug/L	-6	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187087
Run Name :
Filename : tr255933
IDF : 1.0
Injected : 24-NOV-2004 14:31
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	462.9000	ug/L	-7	10	
Antimony		500.0000	503.0000	ug/L	1	10	
Arsenic		250.0000	253.0000	ug/L	1	10	
Barium		500.0000	508.0000	ug/L	2	10	
Beryllium		50.00000	48.50000	ug/L	-3	10	
Cadmium		50.00000	51.40000	ug/L	3	10	
Calcium		1000.000	1040.000	ug/L	4	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	97.70000	ug/L	-2	10	
Iron		500.0000	460.0000	ug/L	-8	10	
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1217.000	ug/L	**22**	10	c+ **
Manganese		50.00000	48.40000	ug/L	-3	10	
Molybdenum		500.0000	491.0000	ug/L	-2	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	242.0000	ug/L	-3	10	
Silver		50.00000	52.50000	ug/L	5	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	505.0000	ug/L	1	10	
Vanadium		250.0000	244.0000	ug/L	-2	10	
Zinc		50.00000	48.40000	ug/L	-3	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187098
Run Name :
Filename : tr255945
IDF : 1.0
Injected : 24-NOV-2004 15:59
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	725.2000	ug/L	-3	10	
Antimony		750.0000	760.0000	ug/L	1	10	
Arsenic		375.0000	371.0000	ug/L	-1	10	
Barium		750.0000	746.0000	ug/L	-1	10	
Beryllium		75.00000	74.50000	ug/L	-1	10	
Cadmium		75.00000	75.10000	ug/L	0	10	
Calcium		1500.000	1501.000	ug/L	0	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	367.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	750.0000	ug/L	0	10	
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1508.000	ug/L	1	10	
Manganese		75.00000	73.60000	ug/L	-2	10	
Molybdenum		750.0000	753.0000	ug/L	0	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	374.0000	ug/L	0	10	
Silver		75.00000	76.40000	ug/L	2	10	
Thallium		375.0000	362.0000	ug/L	-3	10	
Titanium		750.0000	770.0000	ug/L	3	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	71.30000	ug/L	-5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187110

Run Name :
Filename : tr255957

IDF : 1.0
Injected : 24-NOV-2004 17:09
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	502.0000	ug/L	0	10	
Antimony		500.0000	500.0000	ug/L	0	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	500.0000	ug/L	0	10	
Beryllium		50.00000	49.60000	ug/L	-1	10	
Cadmium		50.00000	50.40000	ug/L	1	10	
Calcium		1000.000	999.3000	ug/L	0	10	
Chromium		100.0000	99.70000	ug/L	0	10	
Cobalt		250.0000	242.0000	ug/L	-3	10	
Copper		100.0000	99.10000	ug/L	-1	10	
Iron		500.0000	549.9000	ug/L	10	10	
Lead		250.0000	247.0000	ug/L	-1	10	
Magnesium		1000.000	1029.000	ug/L	3	10	
Manganese		50.00000	51.40000	ug/L	3	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	246.0000	ug/L	-2	10	
Silver		50.00000	52.10000	ug/L	4	10	
Thallium		250.0000	243.0000	ug/L	-3	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	47.50000	ug/L	-5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187003 Run Name:
Filename: tr255849 Run Type: ICB

Injected: 24-NOV-2004 07:19

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[1.5100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	[3.3500]	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187015 Run Name: Injected: 24-NOV-2004 08:33
Filename: tr255861 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[3.1300]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[32.100]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[52.270]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[20.190]	500.0000	ug/L	<RL
Manganese	[1.0100]	10.00000	ug/L	<RL
Molybdenum	[2.4800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.9000]	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187027 Run Name:
Filename: tr255873 Run Type: CCB

Injected: 24-NOV-2004 09:30

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	[0.6090]	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[48.390]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[89.010]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[26.990]	500.0000	ug/L	<RL
Manganese	[1.7200]	10.00000	ug/L	<RL
Molybdenum	[3.5600]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[0.9070]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187038 Run Name: Injected: 24-NOV-2004 10:33
Filename: tr255884 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[30.300]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[35.950]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	[0.6130]	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187050 Run Name:
Filename: tr255896 Run Type: CCB

Injected: 24-NOV-2004 11:34

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[34.340]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[3.2900]	10.00000	ug/L	<RL	
Iron	[40.460]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[14.200]	500.0000	ug/L	<RL	
Manganese	[0.8450]	10.00000	ug/L	<RL	
Molybdenum	[2.4600]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	5.980000	5.000000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[0.8650]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187062 Run Name: Injected: 24-NOV-2004 12:25
Filename: tr255908 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	[0.7330]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[49.060]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	[3.2700]	10.00000	ug/L	<RL	
Iron	108.8000	100.0000	ug/L	<RL	ib ***
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[44.080]	500.0000	ug/L	<RL	
Manganese	[1.9300]	10.00000	ug/L	<RL	
Molybdenum	[2.9200]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[5.5000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187075 Run Name: Injected: 24-NOV-2004 13:33
Filename: tr255921 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.3450]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[25.680]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[42.650]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[14.470]	500.0000	ug/L	<RL
Manganese	[1.3500]	10.00000	ug/L	<RL
Molybdenum	[1.5100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187088 Run Name: Injected: 24-NOV-2004 14:38
Filename: tr255934 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[28.770]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[32.160]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[33.840]	500.0000	ug/L	<RL
Manganese	[0.8600]	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187099 Run Name: Injected: 24-NOV-2004 16:07
Filename: tr255946 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	[0.4390]	10.00000	ug/L	<RL
Beryllium	[1.0400]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[21.940]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[40.030]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[14.300]	500.0000	ug/L	<RL
Manganese	[0.7740]	10.00000	ug/L	<RL
Molybdenum	[6.9700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187111 Run Name: Injected: 24-NOV-2004 17:16
Filename: tr255958 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	[0.5480]	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[21.110]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[55.920]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[16.400]	500.0000	ug/L	<RL
Manganese	[1.8200]	10.00000	ug/L	<RL
Molybdenum	[4.3800]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.3800]	5.000000	ug/L	<RL
Titanium	ND	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74474187005 Run Name: Injected: 24-NOV-2004 07:37
Filename: tr255851 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[9.6900]	60.00000	ug/L	<RL
Arsenic	[0.8360]	5.000000	ug/L	<RL
Barium	[-0.080]	10.00000	ug/L	<RL
Beryllium	[-0.585]	2.000000	ug/L	<RL
Cadmium	[-0.522]	5.000000	ug/L	<RL
Chromium	[2.4800]	10.00000	ug/L	<RL
Cobalt	[-0.467]	10.00000	ug/L	<RL
Copper	[-5.450]	10.00000	ug/L	<RL
Lead	[0.1380]	3.000000	ug/L	<RL
Manganese	[2.1700]	10.00000	ug/L	<RL
Molybdenum	[-0.406]	20.00000	ug/L	<RL
Nickel	[1.8100]	20.00000	ug/L	<RL
Selenium	-6.34000	5.000000	ug/L	<RL
Silver	[-0.519]	5.000000	ug/L	<RL
Thallium	[0.9310]	5.000000	ug/L	<RL
Titanium	24.50000	10.00000	ug/L	<RL a+ ***
Vanadium	[-3.510]	10.00000	ug/L	<RL
Zinc	[-1.930]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	515300	ug/L	103
Calcium	500000	454800.	ug/L	91
Iron	200000	176400	ug/L	88
Magnesium	500000	514600	ug/L	103

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Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187006

Run Name :
Filename : tr255852

Injected : 24-NOV-2004 07:41
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	510500.0	ug/L	2		
Antimony	500.0000	520.0000	ug/L	4	20	
Arsenic	500.0000	509.0000	ug/L	2	20	
Barium	500.0000	482.0000	ug/L	-4	20	
Beryllium	500.0000	473.0000	ug/L	-5	20	
Cadmium	1000.000	919.0000	ug/L	-8	20	
Calcium	500000.0	450700.0	ug/L	-10		
Chromium	500.0000	466.0000	ug/L	-7	20	
Cobalt	500.0000	466.0000	ug/L	-7	20	
Copper	500.0000	494.0000	ug/L	-1	20	
Iron	200000.0	174400.0	ug/L	-13		
Lead	1000.000	959.0000	ug/L	-4	20	
Magnesium	500000.0	507600.0	ug/L	2		
Manganese	500.0000	462.0000	ug/L	-8	20	
Molybdenum	500.0000	490.0000	ug/L	-2	20	
Nickel	1000.000	896.0000	ug/L	-10	20	
Selenium	500.0000	518.0000	ug/L	4	20	
Silver	1000.000	932.0000	ug/L	-7	20	
Thallium	500.0000	498.0000	ug/L	0	20	
Titanium	20000.00	20600.00	ug/L	3		
Vanadium	500.0000	476.0000	ug/L	-5	20	
Zinc	1000.000	937.0000	ug/L	-6	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74474187063 Filename : tr255909 Injected : 24-NOV-2004 12:34
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	507100.0	ug/L	1		
Antimony	500.0000	518.0000	ug/L	4	20	
Arsenic	500.0000	507.0000	ug/L	1	20	
Barium	500.0000	490.0000	ug/L	-2	20	
Beryllium	500.0000	469.0000	ug/L	-6	20	
Cadmium	1000.000	924.0000	ug/L	-8	20	
Calcium	500000.0	432600.0	ug/L	-13		
Chromium	500.0000	464.0000	ug/L	-7	20	
Cobalt	500.0000	464.0000	ug/L	-7	20	
Copper	500.0000	485.0000	ug/L	-3	20	
Iron	200000.0	160300.0	ug/L	-20		
Lead	1000.000	947.0000	ug/L	-5	20	
Magnesium	500000.0	496700.0	ug/L	-1		
Manganese	500.0000	448.0000	ug/L	-10	20	
Molybdenum	500.0000	476.0000	ug/L	-5	20	
Nickel	1000.000	893.0000	ug/L	-11	20	
Selenium	500.0000	507.0000	ug/L	1	20	
Silver	1000.000	922.0000	ug/L	-8	20	
Thallium	500.0000	477.0000	ug/L	-5	20	
Titanium	20000.00	20500.00	ug/L	3		
Vanadium	500.0000	467.0000	ug/L	-7	20	
Zinc	1000.000	942.0000	ug/L	-6	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74474187124
Run Name :
Filename : tr255971
Injected : 24-NOV-2004 18:29
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	553500.0	ug/L	11		
Antimony	500.0000	530.0000	ug/L	6	20	
Arsenic	500.0000	527.0000	ug/L	5	20	
Barium	500.0000	507.0000	ug/L	1	20	
Beryllium	500.0000	473.0000	ug/L	-5	20	
Cadmium	1000.000	967.0000	ug/L	-3	20	
Calcium	500000.0	439200.0	ug/L	-12		
Chromium	500.0000	475.0000	ug/L	-5	20	
Cobalt	500.0000	474.0000	ug/L	-5	20	
Copper	500.0000	497.0000	ug/L	-1	20	
Iron	200000.0	165400.0	ug/L	-17		
Lead	1000.000	964.0000	ug/L	-4	20	
Magnesium	500000.0	514100.0	ug/L	3		
Manganese	500.0000	462.0000	ug/L	-8	20	
Molybdenum	500.0000	490.0000	ug/L	-2	20	
Nickel	1000.000	931.0000	ug/L	-7	20	
Selenium	500.0000	506.0000	ug/L	1	20	
Silver	1000.000	942.0000	ug/L	-6	20	
Thallium	500.0000	488.0000	ug/L	-2	20	
Titanium	20000.00	21100.00	ug/L	6		
Vanadium	500.0000	480.0000	ug/L	-4	20	
Zinc	1000.000	1020.000	ug/L	2	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74474187 Instrument: MET07 TJA Trace ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	tr255847	CS				24-NOV-2004 07:07	1.0	1.0				1	
002	tr255848	ICV				24-NOV-2004 07:11	1.0	1.0				2	
003	tr255849	ICB				24-NOV-2004 07:19	1.0	1.0					
004	tr255850	CRI				24-NOV-2004 07:30	1.0	1.0				3	
005	tr255851	ICSA				24-NOV-2004 07:37	1.0	1.0	1			4	4:AL=515300
006	tr255852	ICSAB				24-NOV-2004 07:41	1.0	1.0				5	5:AL=510500
007	tr255853	BLANK	QC273718	96847	Soil	24-NOV-2004 07:46	1.0	50.0	1				
008	tr255854	BLANK	QC273718	96847	Soil	24-NOV-2004 07:50	1.0	50.0	1				
009	tr255855	BS	QC273719	96847	Soil	24-NOV-2004 07:58	1.0	50.0	2				
010	tr255856	BSD	QC273720	96847	Soil	24-NOV-2004 08:02	1.0	50.0	2				
011	tr255857	MSS	176205-001	96847	Soil	24-NOV-2004 08:07	1.0	40.32	5				4:AL=476500
012	tr255858	SER	QC273723	96847	Soil	24-NOV-2004 08:13	5.0	40.32		1			
013	tr255859	PDS	QC273724	96847	Soil	24-NOV-2004 08:24	1.0	40.32				6 7	4:AL=494000
014	tr255860	CCV				24-NOV-2004 08:29	1.0	1.0	1			8	
015	tr255861	CCB				24-NOV-2004 08:33	1.0	1.0					
016	tr255862	BLANK	QC273715	96846	Wipe	24-NOV-2004 08:40	1.0	50.0	1				
017	tr255863	BS	QC273716	96846	Wipe	24-NOV-2004 08:44	1.0	50.0	2				
018	tr255864	BSD	QC273717	96846	Wipe	24-NOV-2004 08:49	1.0	50.0	2				
019	tr255865	SAMPLE	176222-001	96846	Wipe	24-NOV-2004 08:54	1.0	50.0					
020	tr255866	SAMPLE	176222-002	96846	Wipe	24-NOV-2004 08:58	1.0	50.0					
021	tr255867	MS	QC273721	96847	Soil	24-NOV-2004 09:03	1.0	40.0		1			5:AL=596600
022	tr255868	MSD	QC273722	96847	Soil	24-NOV-2004 09:08	1.0	36.76		2			5:AL=657100
023	tr255869	SAMPLE	176205-002	96847	Soil	24-NOV-2004 09:13	1.0	53.19					4:AL=311700
024	tr255870	SAMPLE	176205-003	96847	Soil	24-NOV-2004 09:17	1.0	39.06					4:AL=462500
025	tr255871	SAMPLE	176205-004	96847	Soil	24-NOV-2004 09:21	1.0	49.02					4:FE=404700
026	tr255872	CCV				24-NOV-2004 09:26	1.0	1.0	1			9	
027	tr255873	CCB				24-NOV-2004 09:30	1.0	1.0					
028	tr255874	SAMPLE	176148-024	96796	Soil	24-NOV-2004 09:37	1.0	49.50					3:FE=445400
029	tr255875	SAMPLE	176148-032	96796	Soil	24-NOV-2004 09:40	1.0	41.32					4:FE=541500
030	tr255876	SAMPLE	176205-005	96847	Soil	24-NOV-2004 09:45	1.0	32.05					4:FE=469800

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007
Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 11/24/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74474187 Instrument: MET07 TJA Trace ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
031	tr255877	SAMPLE	176205-006	96847	Soil	24-NOV-2004 09:49	1.0	50.0			4:FE=596000
032	tr255878	SAMPLE	176205-005	96847	Soil	24-NOV-2004 09:54	1.0	32.05			4:FE=465800
033	tr255879	BLANK	QC273490	96795	Soil	24-NOV-2004 10:01	1.0	50.0	2		
034	tr255880	BS	QC273491	96795	Soil	24-NOV-2004 10:05	1.0	50.0	2		
035	tr255881	BSD	QC273492	96795	Soil	24-NOV-2004 10:09	1.0	50.0	2		
036	tr255882	MSS	176148-001	96795	Soil	24-NOV-2004 10:14	1.0	54.95	3		3:FE=385700
037	tr255883	CCV				24-NOV-2004 10:20	1.0	1.0	1	8	
038	tr255884	CCB				24-NOV-2004 10:33	1.0	1.0			
039	tr255885	MS	QC273493	96795	Soil	24-NOV-2004 10:37	1.0	45.45	1		4:FE=519000
040	tr255886	MSD	QC273494	96795	Soil	24-NOV-2004 10:41	1.0	35.21	1		4:FE=621800
041	tr255887	SAMPLE	176148-002	96795	Soil	24-NOV-2004 10:47	1.0	48.54			4:FE=476500
042	tr255888	SAMPLE	176148-003	96795	Soil	24-NOV-2004 10:51	1.0	45.87			4:FE=481500
043	tr255889	SAMPLE	176148-004	96795	Soil	24-NOV-2004 10:55	1.0	34.48			5:FE=720100
044	tr255890	SAMPLE	176148-005	96795	Soil	24-NOV-2004 10:59	1.0	31.45			4:FE=621000
045	tr255891	SAMPLE	176148-006	96795	Soil	24-NOV-2004 11:03	1.0	46.30			4:FE=513900
046	tr255892	SAMPLE	176148-007	96795	Soil	24-NOV-2004 11:07	1.0	50.0			3:FE=551000
047	tr255893	SAMPLE	176148-008	96795	Soil	24-NOV-2004 11:11	1.0	51.02			5:FE=467800
048	tr255894	SAMPLE	176148-009	96795	Soil	24-NOV-2004 11:15	1.0	43.10			5:FE=474600
049	tr255895	CCV				24-NOV-2004 11:23	1.0	1.0	1	9	
050	tr255896	CCB				24-NOV-2004 11:34	1.0	1.0	1		
051	tr255897	SAMPLE	176148-010	96795	Soil	24-NOV-2004 11:38	1.0	36.23			5:FE=645800
052	tr255898	SAMPLE	176148-011	96795	Soil	24-NOV-2004 11:42	1.0	54.95			5:FE=365600
053	tr255899	SAMPLE	176148-012	96795	Soil	24-NOV-2004 11:47	1.0	51.55			4:FE=376400
054	tr255900	SAMPLE	176148-013	96795	Soil	24-NOV-2004 11:51	1.0	53.76			4:FE=435700
055	tr255901	SAMPLE	176148-014	96795	Soil	24-NOV-2004 11:55	1.0	34.01			5:FE=562100
056	tr255902	SAMPLE	176148-015	96795	Soil	24-NOV-2004 11:59	1.0	42.02			4:FE=590500
057	tr255903	SAMPLE	176148-016	96795	Soil	24-NOV-2004 12:03	1.0	44.64			4:FE=411700
058	tr255904	SAMPLE	176148-017	96795	Soil	24-NOV-2004 12:07	1.0	40.65			5:FE=624300
059	tr255905	SAMPLE	176148-018	96795	Soil	24-NOV-2004 12:11	1.0	48.08			5:FE=480000
060	tr255906	SAMPLE	176148-019	96795	Soil	24-NOV-2004 12:15	1.0	50.51			4:FE=372200

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007
Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 11/24/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74474187 Instrument: MET07 TJA Trace ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
061	tr255907	CCV				24-NOV-2004 12:21	1.0	1.0	1	8	
062	tr255908	CCB				24-NOV-2004 12:25	1.0	1.0	1		
063	tr255909	ICSAB				24-NOV-2004 12:34	1.0	1.0		5	5:AL=507100
064	tr255910	SAMPLE	176148-020	96795	Soil	24-NOV-2004 12:38	1.0	49.02			3:FE=327600
065	tr255911	SAMPLE	176153-028	96847	Soil	24-NOV-2004 12:42	1.0	46.30			2:FE=296600
066	tr255912	SAMPLE	176153-030	96847	Soil	24-NOV-2004 12:46	1.0	51.55	2		4:FE=324500
067	tr255913	SAMPLE	176153-031	96847	Soil	24-NOV-2004 12:50	1.0	39.06			2:FE=385400
068	tr255914	SAMPLE	176153-030	96847	Soil	24-NOV-2004 12:55	20.0	51.55			
069	tr255915	SAMPLE	176153-032	96847	Soil	24-NOV-2004 12:58	1.0	53.19			2:AL=390000
070	tr255916	SAMPLE	176153-033	96847	Soil	24-NOV-2004 13:02	1.0	49.02			2:AL=423100
071	tr255917	SAMPLE	176153-034	96847	Soil	24-NOV-2004 13:07	1.0	33.33			4:FE=484900
072	tr255918	SAMPLE	176153-036	96847	Soil	24-NOV-2004 13:11	1.0	36.50			3:AL=453500
073	tr255919	SAMPLE	176153-037	96847	Soil	24-NOV-2004 13:15	1.0	27.17	1		5:FE=494200
074	tr255920	CCV				24-NOV-2004 13:24	1.0	1.0		9	
075	tr255921	CCB				24-NOV-2004 13:33	1.0	1.0			
076	tr255922	SAMPLE	176153-037	96847	Soil	24-NOV-2004 13:37	2.0	27.17			3:FE=289300
077	tr255923	SAMPLE	176224-001	96847	Soil	24-NOV-2004 13:42	1.0	43.48			3:FE=247700
078	tr255924	SAMPLE	176224-002	96847	Soil	24-NOV-2004 13:46	1.0	37.04			3:FE=330100
079	tr255925	SAMPLE	176175-001	96847	Miscel	24-NOV-2004 13:50	1.0	580.0			
080	tr255926	SAMPLE	176194-001	96847	Soil	24-NOV-2004 13:54	1.0	48.08			4:FE=495500
081	tr255927	SAMPLE	176195-001	96847	Soil	24-NOV-2004 13:58	1.0	40.32			4:FE=580900
082	tr255928	X	rinse			24-NOV-2004 14:03	1.0				
083	tr255929	BLANK	QC273779	96861	Filtra	24-NOV-2004 14:09	1.0	1.0	1		
084	tr255930	BS	QC273780	96861	Filtra	24-NOV-2004 14:13	1.0	1.0	2		
085	tr255931	BSD	QC273781	96861	Filtra	24-NOV-2004 14:18	1.0	1.0	2		
086	tr255932	MSS	176174-003	96861	Filtra	24-NOV-2004 14:24	1.0	1.0	3		2:MG=1111000
087	tr255933	CCV				24-NOV-2004 14:31	1.0	1.0	1	8	
088	tr255934	CCB				24-NOV-2004 14:38	1.0	1.0			
089	tr255935	MS	QC273782	96861	Filtra	24-NOV-2004 14:52	1.0	1.0			2:MG=1108000
090	tr255936	MSD	QC273783	96861	Filtra	24-NOV-2004 14:56	1.0	1.0			2:MG=1157000

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 11/24/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74474187 Instrument: MET07 TJA Trace ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
091	tr255937	MSS	176174-003	96861	Filtra	24-NOV-2004 15:04	20.0	1.0	2			
092	tr255938	SAMPLE	176236-002	96861	Water	24-NOV-2004 15:07	1.0	1.0				
093	tr255939	BLANK	QC273839	96876	Soil	24-NOV-2004 15:22	1.0	50.0	1			
094	tr255940	BLANK	QC273839	96876	Soil	24-NOV-2004 15:28	1.0	50.0	1			
095	tr255941	BS	QC273840	96876	Soil	24-NOV-2004 15:32	1.0	50.0	2			
096	tr255942	X		96876	Soil	24-NOV-2004 15:36	1.0	50.0			spk	
097	tr255943	BSD	QC273841	96876	Soil	24-NOV-2004 15:47	1.0	50.0	2			
098	tr255945	CCV				24-NOV-2004 15:59	1.0	1.0			9	
099	tr255946	CCB				24-NOV-2004 16:07	1.0	1.0				
100	tr255947	MSS	176180-001	96876	Soil	24-NOV-2004 16:12	1.0	46.30	4			3:FE=557400
101	tr255948	MS	QC273842	96876	Soil	24-NOV-2004 16:16	1.0	46.30				5:FE=386100
102	tr255949	MSD	QC273843	96876	Soil	24-NOV-2004 16:21	1.0	40.0		2		4:AL=421700
103	tr255950	SER	QC273844	96876	Soil	24-NOV-2004 16:27	5.0	46.30	1	1		1:FE=109500
104	tr255951	SER	QC273844	96876	Soil	24-NOV-2004 16:33	5.0	46.30		1		1:FE=111600
105	tr255952	PDS	QC273845	96876	Soil	24-NOV-2004 16:37	1.0	46.30			6 7	6:FE=566000
106	tr255953	MSS	176180-011	96876	Soil	24-NOV-2004 16:43	1.0	47.17	4			3:AL=436500
107	tr255954	MS	QC273846	96876	Soil	24-NOV-2004 16:47	1.0	45.87				3:AL=529800
108	tr255955	MSD	QC273847	96876	Soil	24-NOV-2004 16:51	1.0	49.02		2		3:AL=523900
109	tr255956	SAMPLE	176210-001	96876	Soil	24-NOV-2004 16:57	1.0	42.02	2			4:FE=499100
110	tr255957	CCV				24-NOV-2004 17:09	1.0	1.0			8	
111	tr255958	CCB				24-NOV-2004 17:16	1.0	1.0				
112	tr255959	SAMPLE	176210-002	96876	Soil	24-NOV-2004 17:24	1.0	44.25	1			3:FE=217400
113	tr255960	SAMPLE	176210-003	96876	Soil	24-NOV-2004 17:29	1.0	47.17	2			3:FE=350300
114	tr255961	SAMPLE	176210-004	96876	Soil	24-NOV-2004 17:33	1.0	40.32	1			3:FE=228800
115	tr255962	SAMPLE	176210-005	96876	Soil	24-NOV-2004 17:37	1.0	47.17	2			4:FE=332200
116	tr255963	SAMPLE	176210-006	96876	Soil	24-NOV-2004 17:42	1.0	49.50	1			3:FE=234900
117	tr255964	SAMPLE	176210-007	96876	Soil	24-NOV-2004 17:46	1.0	43.10	1			3:FE=238700
118	tr255965	SAMPLE	176210-008	96876	Soil	24-NOV-2004 17:50	1.0	43.86	1			2:FE=309400
119	tr255966	SAMPLE	176210-009	96876	Soil	24-NOV-2004 17:55	1.0	43.10	1			3:FE=278200
120	tr255967	SAMPLE	176210-010	96876	Soil	24-NOV-2004 17:59	1.0	45.87	1			3:FE=235900

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 11/24/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74474187 Instrument: MET07 TJA Trace ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
121	tr255968	SAMPLE	176210-011	96876	Soil	24-NOV-2004 18:03	1.0	46.73	2		4:FE=383800
122	tr255969	CCV				24-NOV-2004 18:13	1.0	1.0		9	
123	tr255970	CCB				24-NOV-2004 18:24	1.0	1.0			
124	tr255971	ICSAB				24-NOV-2004 18:29	1.0	1.0		5	5:AL=553500

507

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007
Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 11/24/04

Method: 6010B Standard: blank
Run Time: 11/24/04 10:09:58

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	-.0003	.0009	.0003	.0006	.0002	-.0020	-.0006
SDev	.0013	.0039	.0004	.0000	.0002	.0007	.0000
%RSD	422.5	426.0	141.4	.2178	141.4	32.84	.2178
#1	-.0012	-.0019	.0000	.0006	.0003	-.0025	-.0006
#2	.0006	.0037	.0006	.0006	.0000	-.0015	-.0006

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0018	-.0008	.0003	-.0003	.0002	-.0003	-.0008
SDev	.0000	.0002	.0009	.0013	.0033	.0004	.0046
%RSD	.2178	28.08	283.5	426.0	2074.	141.4	597.6
#1	.0019	-.0006	-.0003	.0006	.0025	-.0006	.0025
#2	.0018	-.0009	.0009	-.0012	-.0022	.0000	-.0040

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0003	.0011	.0006	.1903	.0009	-.0015	.0002
SDev	.0004	.0002	.0009	.0053	.0004	.0030	.0002
%RSD	141.4	20.42	141.4	2.757	47.33	198.2	141.4
#1	-.0006	.0012	.0000	.1866	.0012	.0006	.0003
#2	.0000	.0009	.0012	.1940	.0006	-.0037	.0000

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782
Avge	.0229	.0202	-.0008	.0223	-.0002	-.0003
SDev	.0006	.0006	.0028	.0003	.0002	.0022
%RSD	2.630	3.021	366.4	1.193	141.4	701.9
#1	.0225	.0197	-.0028	.0225	-.0003	-.0019
#2	.0234	.0206	.0012	.0221	.0000	.0012

Method: 6010B Standard: cs hi
Run Time: 11/24/04 10:12:27

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.5867	1.196	10.22	.3230	4.234	1.266	.9207
SDev	.0072	.008	.17	.0049	.071	.024	.0165
%RSD	1.231	.7087	1.660	1.528	1.673	1.910	1.796
#1	.5816	1.190	10.10	.3195	4.184	1.249	.9090
#2	.5918	1.202	10.34	.3265	4.284	1.283	.9324

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.116	.3821	2.530	2.214	.5681	.1934	.6051
SDev	.017	.0100	.061	.033	.0138	.0022	.0138
%RSD	1.503	2.610	2.425	1.483	2.438	1.127	2.281
#1	1.104	.3751	2.487	2.191	.5583	.1918	.5953
#2	1.128	.3892	2.574	2.237	.5779	.1949	.6148

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.8393	2.242	3.041	56.40	4.436	8.021	1.696
SDev	.0146	.044	.047	.98	.094	.119	.028
%RSD	1.746	1.972	1.560	1.743	2.125	1.481	1.630
#1	.8290	2.211	3.007	55.70	4.370	7.937	1.676
#2	.8497	2.273	3.074	57.09	4.503	8.105	1.715

Elem	K_7664	Na5889
Avge	.6961	6.134
SDev	.0120	.086
%RSD	1.731	1.398
#1	.6875	6.073
#2	.7046	6.194

Method: 6010B Standard: STD4
Run Time: 11/24/04 10:15:06

Elem	Sn1899	B_2496	Ti3349	P_1782	S_1820	Si2881
Avge	3.059	1.862	9.922	-.0000	.0448	.2744
SDev	.086	.046	.248	.0009	.0041	.0032
%RSD	2.798	2.457	2.503	8812.	9.090	1.156
#1	3.119	1.895	10.10	-.0006	.0477	.2767
#2	2.998	1.830	9.746	.0006	.0419	.2722

Standardization Report 11/24/04 10:17:28 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	17105.7	5.29250	11/24/04 10:12:27
As1890	189.042	Multiple	Standards	8369.96	-7.69755	11/24/04 10:12:27
Ba4934	493.409	Multiple	Standards	1957.94	-.602072	11/24/04 10:12:27
Be3130	313.042	Multiple	Standards	1604.97	-.988587	11/24/04 10:12:27
Cd2288	228.802	Multiple	Standards	2362.94	-.364426	11/24/04 10:12:27
Cr2677	267.716	Multiple	Standards	1575.08	3.15420	11/24/04 10:12:27
Co2286	228.616	Multiple	Standards	5461.64	3.36412	11/24/04 10:12:27
Cu3247	324.754	Multiple	Standards	2246.44	-4.15112	11/24/04 10:12:27
Pb2203	220.353	Multiple	Standards	26176.6	20.1483	11/24/04 10:12:27
Mo2020	202.030	Multiple	Standards	3952.11	-1.21341	11/24/04 10:12:27
Ni2316	231.604	Multiple	Standards	2257.61	.692080	11/24/04 10:12:27
Se1960	196.026	Multiple	Standards	17585.7	-2.77055	11/24/04 10:12:27
Ag3280	328.068	Multiple	Standards	5048.08	1.55709	11/24/04 10:12:27
Tl1908	190.864	Multiple	Standards	16513.1	12.6319	11/24/04 10:12:27
V_2924	292.402	Multiple	Standards	5844.35	1.80270	11/24/04 10:12:27
Zn2138	213.856	Multiple	Standards	2224.43	-2.39829	11/24/04 10:12:27
Al3961	396.153	Multiple	Standards	6618.53	-4.07044	11/24/04 10:12:27
Ca3179	317.933	Multiple	Standards	889.559	-169.304	11/24/04 10:12:27
Fe2599	259.940	Multiple	Standards	2254.63	-2.08419	11/24/04 10:12:27
Mg2790	279.079	Multiple	Standards	6203.77	9.53250	11/24/04 10:12:27
Mn2576	257.610	Multiple	Standards	2949.47	-.454884	11/24/04 10:12:27
K_7664	766.491	Multiple	Standards	74281.4	-1704.28	11/24/04 10:12:27
Na5889	588.995	Multiple	Standards	8178.66	-164.978	11/24/04 10:12:27
Sn1899	189.989	STD4	blank	3279.13	2.53485	11/24/04 10:15:06
B_2496	249.678	STD4	blank	5435.02	-121.356	11/24/04 10:15:06
Ti3349	334.941	STD4	blank	1007.88	.155441	11/24/04 10:15:06
P_1782	178.287	STD4	blank	33e6	10329.8	11/24/04 10:15:06
S_1820	182.040	STD4	STD1-Blank	118.671	-8.71043	*11/24/04 10:15:06
Si2881	288.158	STD4	STD1-Blank	47180.9	-13205.9	*11/24/04 10:15:06

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14474378001 Filename : icp180171 Injected : 24-NOV-2004 10:18
Caltype :

Standards: 04WS1970

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	20000.00	19960.00	ug/L	0	5	
Antimony	10000.00	10030.00	ug/L	0	5	
Arsenic	10000.00	10020.00	ug/L	0	5	
Barium	20000.00	20180.00	ug/L	1	5	
Beryllium	500.0000	511.5000	ug/L	2	5	
Cadmium	10000.00	10070.00	ug/L	1	5	
Calcium	50000.00	50850.00	ug/L	2	5	
Chromium	2000.000	2028.000	ug/L	1	5	
Cobalt	5000.000	5060.000	ug/L	1	5	
Copper	2500.000	2504.000	ug/L	0	5	
Iron	10000.00	10160.00	ug/L	2	5	
Lead	10000.00	10080.00	ug/L	1	5	
Magnesium	50000.00	50070.00	ug/L	0	5	
Manganese	5000.000	5057.000	ug/L	1	5	
Molybdenum	10000.00	10170.00	ug/L	2	5	
Nickel	5000.000	5046.000	ug/L	1	5	
Potassium	50000.00	49190.00	ug/L	-2	5	
Selenium	10000.00	10140.00	ug/L	1	5	
Silver	1000.000	994.9000	ug/L	-1	5	
Sodium	50000.00	49490.00	ug/L	-1	5	
Thallium	10000.00	10240.00	ug/L	2	5	
Vanadium	5000.000	5054.000	ug/L	1	5	
Zinc	5000.000	5063.000	ug/L	1	5	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14474378002 Filename : icp180172 Injected : 24-NOV-2004 10:23
Caltype :

Standards: 04WS2038

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Boron	10000.00	9693.000	ug/L	-3	5	
Phosphorus	10000.00	10330.00	ug/L	3	5	
Silicon	10000.00	-498.500	ug/L	**-105**	5	cs- ***
Tin	10000.00	9701.000	ug/L	-3	5	
Titanium	10000.00	9633.000	ug/L	-4	5	

-=low bias
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14474378003 Filename : icp180173 Injected : 24-NOV-2004 10:25
Caltype :

Standards: 04WS1780

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	1000.000	1050.000	ug/L	5	10	
Antimony	2000.000	2029.000	ug/L	1	10	
Arsenic	2000.000	2087.000	ug/L	4	10	
Barium	1000.000	1041.000	ug/L	4	10	
Beryllium	2000.000	2063.000	ug/L	3	10	
Boron	1000.000	994.1000	ug/L	-1	10	
Cadmium	2000.000	2053.000	ug/L	3	10	
Calcium	2000.000	2090.000	ug/L	5	10	
Chromium	2000.000	2078.000	ug/L	4	10	
Cobalt	2000.000	2105.000	ug/L	5	10	
Copper	2000.000	2032.000	ug/L	2	10	
Iron	2000.000	2097.000	ug/L	5	10	
Lead	2000.000	2095.000	ug/L	5	10	
Magnesium	2000.000	2023.000	ug/L	1	10	
Manganese	2000.000	2084.000	ug/L	4	10	
Molybdenum	2000.000	2054.000	ug/L	3	10	
Nickel	2000.000	2108.000	ug/L	5	10	
Potassium	10000.00	10050.00	ug/L	1	10	
Selenium	2000.000	2007.000	ug/L	0	10	
Silver	1000.000	1048.000	ug/L	5	10	
Sodium	10000.00	9663.000	ug/L	-3	10	
Thallium	2000.000	2111.000	ug/L	6	10	
Tin	2000.000	1923.000	ug/L	-4	10	
Titanium	2000.000	1943.000	ug/L	-3	10	
Vanadium	2000.000	2024.000	ug/L	1	10	
Zinc	2000.000	2056.000	ug/L	3	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14474378005 Filename : icp180175 Injected : 24-NOV-2004 10:31
Caltype :

Standards: 04WS2161

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	102.7000	ug/L	3	50	
Antimony	60.00000	64.60000	ug/L	8	50	
Arsenic	500.0000	517.3000	ug/L	3	50	
Barium	10.00000	9.582000	ug/L	-4	50	
Beryllium	2.000000	2.685000	ug/L	34	50	
Boron	100.0000	74.95000	ug/L	-25	50	
Cadmium	5.000000	7.466000	ug/L	49	50	
Calcium	500.0000	519.0000	ug/L	4	50	
Chromium	10.00000	13.98000	ug/L	40	50	
Cobalt	20.00000	22.26000	ug/L	11	50	
Copper	10.00000	8.827000	ug/L	-12	50	
Iron	100.0000	112.6000	ug/L	13	50	
Lead	300.0000	318.7000	ug/L	6	50	
Magnesium	500.0000	497.7000	ug/L	0	50	
Manganese	10.00000	11.04000	ug/L	10	50	
Molybdenum	20.00000	22.22000	ug/L	11	50	
Nickel	20.00000	21.35000	ug/L	7	50	
Phosphorus	100.0000	10330.00	ug/L	**10230**	50	cri+ ***
Potassium	500.0000	292.0000	ug/L	-42	50	
Selenium	500.0000	523.4000	ug/L	5	50	
Silver	5.000000	7.443000	ug/L	49	50	
Sodium	500.0000	489.6000	ug/L	-2	50	
Thallium	500.0000	551.8000	ug/L	10	50	
Tin	40.00000	39.96000	ug/L	0	50	
Titanium	10.00000	9.908000	ug/L	-1	50	
Vanadium	10.00000	11.27000	ug/L	13	50	
Zinc	20.00000	19.11000	ug/L	-4	50	

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CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378015
Run Name :
Filename : icp180185
IDF : 1.0
Injected : 24-NOV-2004 11:23
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1023.000	ug/L	2	10	
Antimony		2000.000	1982.000	ug/L	-1	10	
Arsenic		2000.000	2064.000	ug/L	3	10	
Barium		1000.000	1042.000	ug/L	4	10	
Beryllium		2000.000	2164.000	ug/L	8	10	
Boron		1000.000	930.0000	ug/L	-7	10	
Cadmium		2000.000	2049.000	ug/L	2	10	
Calcium		2000.000	2141.000	ug/L	7	10	
Chromium		2000.000	2081.000	ug/L	4	10	
Cobalt		2000.000	2102.000	ug/L	5	10	
Copper		2000.000	2026.000	ug/L	1	10	
Iron		2000.000	2073.000	ug/L	4	10	
Lead		2000.000	2083.000	ug/L	4	10	
Magnesium		2000.000	1987.000	ug/L	-1	10	
Manganese		2000.000	2096.000	ug/L	5	10	
Molybdenum		2000.000	2090.000	ug/L	5	10	
Nickel		2000.000	2192.000	ug/L	10	10	
Potassium		10000.00	9417.000	ug/L	-6	10	
Selenium		2000.000	2073.000	ug/L	4	10	
Silver		1000.000	1029.000	ug/L	3	10	
Sodium		10000.00	9866.000	ug/L	-1	10	
Thallium		2000.000	2169.000	ug/L	8	10	
Tin		2000.000	1901.000	ug/L	-5	10	
Titanium		2000.000	1939.000	ug/L	-3	10	
Vanadium		2000.000	2048.000	ug/L	2	10	
Zinc		2000.000	2088.000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378026
Run Name :
Filename : icp180196
IDF : 1.0
Injected : 24-NOV-2004 12:30
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1009.000	ug/L	1	10	
Antimony		2000.000	1908.000	ug/L	-5	10	
Arsenic		2000.000	2117.000	ug/L	6	10	
Barium		1000.000	1016.000	ug/L	2	10	
Beryllium		2000.000	2140.000	ug/L	7	10	
Boron		1000.000	912.5000	ug/L	-9	10	
Cadmium		2000.000	2044.000	ug/L	2	10	
Calcium		2000.000	2168.000	ug/L	8	10	
Chromium		2000.000	1991.000	ug/L	0	10	
Cobalt		2000.000	2044.000	ug/L	2	10	
Copper		2000.000	1983.000	ug/L	-1	10	
Iron		2000.000	1849.000	ug/L	-8	10	
Lead		2000.000	2071.000	ug/L	4	10	
Magnesium		2000.000	1981.000	ug/L	-1	10	
Manganese		2000.000	2041.000	ug/L	2	10	
Molybdenum		2000.000	2054.000	ug/L	3	10	
Nickel		2000.000	2124.000	ug/L	6	10	
Potassium		10000.00	9106.000	ug/L	-9	10	
Selenium		2000.000	1989.000	ug/L	-1	10	
Silver		1000.000	1026.000	ug/L	3	10	
Sodium		10000.00	10310.00	ug/L	3	10	
Thallium		2000.000	2074.000	ug/L	4	10	
Tin		2000.000	1934.000	ug/L	-3	10	
Titanium		2000.000	1854.000	ug/L	-7	10	
Vanadium		2000.000	2023.000	ug/L	1	10	
Zinc		2000.000	2075.000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378032
Run Name :
Filename : icp180202
IDF : 1.0
Injected : 24-NOV-2004 13:09
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1004.000	ug/L	0	10	
Antimony		2000.000	1894.000	ug/L	-5	10	
Arsenic		2000.000	2036.000	ug/L	2	10	
Barium		1000.000	1014.000	ug/L	1	10	
Beryllium		2000.000	2172.000	ug/L	9	10	
Boron		1000.000	915.4000	ug/L	-8	10	
Cadmium		2000.000	2034.000	ug/L	2	10	
Calcium		2000.000	2145.000	ug/L	7	10	
Chromium		2000.000	2004.000	ug/L	0	10	
Cobalt		2000.000	2039.000	ug/L	2	10	
Copper		2000.000	1990.000	ug/L	-1	10	
Iron		2000.000	1800.000	ug/L	-10	10	
Lead		2000.000	2010.000	ug/L	1	10	
Magnesium		2000.000	1939.000	ug/L	-3	10	
Manganese		2000.000	2041.000	ug/L	2	10	
Molybdenum		2000.000	2087.000	ug/L	4	10	
Nickel		2000.000	2169.000	ug/L	8	10	
Potassium		10000.00	9403.000	ug/L	-6	10	
Selenium		2000.000	1868.000	ug/L	-7	10	
Silver		1000.000	1029.000	ug/L	3	10	
Sodium		10000.00	9941.000	ug/L	-1	10	
Thallium		2000.000	2185.000	ug/L	9	10	
Tin		2000.000	1961.000	ug/L	-2	10	
Titanium		2000.000	1837.000	ug/L	-8	10	
Vanadium		2000.000	2021.000	ug/L	1	10	
Zinc		2000.000	2098.000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378044
Run Name :
Filename : icp180215
IDF : 1.0
Injected : 24-NOV-2004 15:13
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1086.000	ug/L	9	10	
Antimony		2000.000	1973.000	ug/L	-1	10	
Arsenic		2000.000	2071.000	ug/L	4	10	
Barium		1000.000	1058.000	ug/L	6	10	
Beryllium		2000.000	2013.000	ug/L	1	10	
Boron		1000.000	919.8000	ug/L	-8	10	
Cadmium		2000.000	2075.000	ug/L	4	10	
Calcium		2000.000	2053.000	ug/L	3	10	
Chromium		2000.000	2056.000	ug/L	3	10	
Cobalt		2000.000	2059.000	ug/L	3	10	
Copper		2000.000	2087.000	ug/L	4	10	
Iron		2000.000	1984.000	ug/L	-1	10	
Lead		2000.000	2055.000	ug/L	3	10	
Magnesium		2000.000	2048.000	ug/L	2	10	
Manganese		2000.000	2065.000	ug/L	3	10	
Molybdenum		2000.000	2062.000	ug/L	3	10	
Nickel		2000.000	2104.000	ug/L	5	10	
Potassium		10000.00	10270.00	ug/L	3	10	
Selenium		2000.000	2029.000	ug/L	1	10	
Silver		1000.000	1085.000	ug/L	9	10	
Sodium		10000.00	10330.00	ug/L	3	10	
Thallium		2000.000	2056.000	ug/L	3	10	
Tin		2000.000	1983.000	ug/L	-1	10	
Titanium		2000.000	1831.000	ug/L	-8	10	
Vanadium		2000.000	2034.000	ug/L	2	10	
Zinc		2000.000	2074.000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01 Run Name : IDF : 1.0
Seqnum : 14474378056 Filename : icp180227 Injected : 24-NOV-2004 16:18
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1116.000	ug/L	**12**	10	c+ **
Antimony		2000.000	1978.000	ug/L	-1	10	
Arsenic		2000.000	2095.000	ug/L	5	10	
Barium		1000.000	1073.000	ug/L	7	10	
Beryllium		2000.000	2078.000	ug/L	4	10	
Boron		1000.000	1007.000	ug/L	1	10	
Cadmium		2000.000	2111.000	ug/L	6	10	
Calcium		2000.000	2157.000	ug/L	8	10	
Chromium		2000.000	2106.000	ug/L	5	10	
Cobalt		2000.000	2115.000	ug/L	6	10	
Copper		2000.000	2108.000	ug/L	5	10	
Iron		2000.000	2056.000	ug/L	3	10	
Lead		2000.000	2162.000	ug/L	8	10	
Magnesium		2000.000	2112.000	ug/L	6	10	
Manganese		2000.000	2100.000	ug/L	5	10	
Molybdenum		2000.000	2090.000	ug/L	5	10	
Nickel		2000.000	2158.000	ug/L	8	10	
Potassium		10000.00	10780.00	ug/L	8	10	
Selenium		2000.000	2115.000	ug/L	6	10	
Silver		1000.000	1093.000	ug/L	9	10	
Sodium		10000.00	10430.00	ug/L	4	10	
Thallium		2000.000	2033.000	ug/L	2	10	
Tin		2000.000	2042.000	ug/L	2	10	
Titanium		2000.000	1862.000	ug/L	-7	10	
Vanadium		2000.000	2072.000	ug/L	4	10	
Zinc		2000.000	2113.000	ug/L	6	10	

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Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378065
Run Name :
Filename : icp180236
IDF : 1.0
Injected : 24-NOV-2004 17:18
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1097.000	ug/L	10	10	
Antimony		2000.000	1978.000	ug/L	-1	10	
Arsenic		2000.000	1976.000	ug/L	-1	10	
Barium		1000.000	1057.000	ug/L	6	10	
Beryllium		2000.000	2041.000	ug/L	2	10	
Boron		1000.000	992.3000	ug/L	-1	10	
Cadmium		2000.000	2069.000	ug/L	3	10	
Calcium		2000.000	2080.000	ug/L	4	10	
Chromium		2000.000	2069.000	ug/L	3	10	
Cobalt		2000.000	2069.000	ug/L	3	10	
Copper		2000.000	2064.000	ug/L	3	10	
Iron		2000.000	2031.000	ug/L	2	10	
Lead		2000.000	2079.000	ug/L	4	10	
Magnesium		2000.000	2071.000	ug/L	4	10	
Manganese		2000.000	2060.000	ug/L	3	10	
Molybdenum		2000.000	2062.000	ug/L	3	10	
Nickel		2000.000	2118.000	ug/L	6	10	
Potassium		10000.00	10450.00	ug/L	5	10	
Selenium		2000.000	1973.000	ug/L	-1	10	
Silver		1000.000	1078.000	ug/L	8	10	
Sodium		10000.00	10090.00	ug/L	1	10	
Thallium		2000.000	2099.000	ug/L	5	10	
Tin		2000.000	1964.000	ug/L	-2	10	
Titanium		2000.000	1838.000	ug/L	-8	10	
Vanadium		2000.000	2042.000	ug/L	2	10	
Zinc		2000.000	2076.000	ug/L	4	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378077
Run Name :
Filename : icp180248
IDF : 1.0
Injected : 24-NOV-2004 18:06
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1072.000	ug/L	7	10	
Antimony		2000.000	1907.000	ug/L	-5	10	
Arsenic		2000.000	2035.000	ug/L	2	10	
Barium		1000.000	1039.000	ug/L	4	10	
Beryllium		2000.000	2002.000	ug/L	0	10	
Boron		1000.000	976.3000	ug/L	-2	10	
Cadmium		2000.000	2051.000	ug/L	3	10	
Calcium		2000.000	2050.000	ug/L	3	10	
Chromium		2000.000	2042.000	ug/L	2	10	
Cobalt		2000.000	2054.000	ug/L	3	10	
Copper		2000.000	2019.000	ug/L	1	10	
Iron		2000.000	1999.000	ug/L	0	10	
Lead		2000.000	2064.000	ug/L	3	10	
Magnesium		2000.000	2005.000	ug/L	0	10	
Manganese		2000.000	2033.000	ug/L	2	10	
Molybdenum		2000.000	2010.000	ug/L	1	10	
Nickel		2000.000	2081.000	ug/L	4	10	
Potassium		10000.00	10310.00	ug/L	3	10	
Selenium		2000.000	1977.000	ug/L	-1	10	
Silver		1000.000	1065.000	ug/L	7	10	
Sodium		10000.00	9820.000	ug/L	-2	10	
Thallium		2000.000	2048.000	ug/L	2	10	
Tin		2000.000	1930.000	ug/L	-4	10	
Titanium		2000.000	1809.000	ug/L	-10	10	
Vanadium		2000.000	2008.000	ug/L	0	10	
Zinc		2000.000	2046.000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378089
Run Name :
Filename : icp180260
IDF : 1.0
Injected : 24-NOV-2004 19:11
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1074.000	ug/L	7	10	
Antimony		2000.000	1941.000	ug/L	-3	10	
Arsenic		2000.000	2050.000	ug/L	3	10	
Barium		1000.000	1040.000	ug/L	4	10	
Beryllium		2000.000	2013.000	ug/L	1	10	
Boron		1000.000	974.7000	ug/L	-3	10	
Cadmium		2000.000	2065.000	ug/L	3	10	
Calcium		2000.000	2054.000	ug/L	3	10	
Chromium		2000.000	2061.000	ug/L	3	10	
Cobalt		2000.000	2066.000	ug/L	3	10	
Copper		2000.000	2029.000	ug/L	1	10	
Iron		2000.000	2005.000	ug/L	0	10	
Lead		2000.000	2092.000	ug/L	5	10	
Magnesium		2000.000	2023.000	ug/L	1	10	
Manganese		2000.000	2044.000	ug/L	2	10	
Molybdenum		2000.000	2008.000	ug/L	0	10	
Nickel		2000.000	2086.000	ug/L	4	10	
Potassium		10000.00	10280.00	ug/L	3	10	
Selenium		2000.000	1994.000	ug/L	0	10	
Silver		1000.000	1065.000	ug/L	7	10	
Sodium		10000.00	9736.000	ug/L	-3	10	
Thallium		2000.000	2039.000	ug/L	2	10	
Tin		2000.000	1924.000	ug/L	-4	10	
Titanium		2000.000	1828.000	ug/L	-9	10	
Vanadium		2000.000	2018.000	ug/L	1	10	
Zinc		2000.000	2056.000	ug/L	3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378101
Run Name :
Filename : icp180272
IDF : 1.0
Injected : 24-NOV-2004 20:05
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1093.000	ug/L	9	10	
Antimony		2000.000	1987.000	ug/L	-1	10	
Arsenic		2000.000	2040.000	ug/L	2	10	
Barium		1000.000	1041.000	ug/L	4	10	
Beryllium		2000.000	2010.000	ug/L	1	10	
Boron		1000.000	970.3000	ug/L	-3	10	
Cadmium		2000.000	2084.000	ug/L	4	10	
Calcium		2000.000	2066.000	ug/L	3	10	
Chromium		2000.000	2054.000	ug/L	3	10	
Cobalt		2000.000	2065.000	ug/L	3	10	
Copper		2000.000	2042.000	ug/L	2	10	
Iron		2000.000	2012.000	ug/L	1	10	
Lead		2000.000	2106.000	ug/L	5	10	
Magnesium		2000.000	2079.000	ug/L	4	10	
Manganese		2000.000	2033.000	ug/L	2	10	
Molybdenum		2000.000	2034.000	ug/L	2	10	
Nickel		2000.000	2078.000	ug/L	4	10	
Potassium		10000.00	10720.00	ug/L	7	10	
Selenium		2000.000	2031.000	ug/L	2	10	
Silver		1000.000	1075.000	ug/L	8	10	
Sodium		10000.00	9756.000	ug/L	-2	10	
Thallium		2000.000	1936.000	ug/L	-3	10	
Tin		2000.000	1943.000	ug/L	-3	10	
Titanium		2000.000	1824.000	ug/L	-9	10	
Vanadium		2000.000	2022.000	ug/L	1	10	
Zinc		2000.000	2066.000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378004 Run Name: Injected: 24-NOV-2004 10:28
Filename: icp180174 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.8437]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	[2.3410]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[3.6100]	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	10260.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	15700.00	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[2.6680]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378016 Run Name: Injected: 24-NOV-2004 11:28
Filename: icp180186 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[4.2380]	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	46830.00	100.0000	ug/L	<RL	>LR ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	15560.00	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378027 Run Name: Injected: 24-NOV-2004 12:35
Filename: icp180197 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.6380]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	[3.6930]	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	10260.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	15900.00	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[4.2300]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378033 Run Name: Injected: 24-NOV-2004 13:17
Filename: icp180203 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[23.910]	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	19720.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	15850.00	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	[2.6410]	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378045 Run Name: Injected: 24-NOV-2004 15:20
Filename: icp180216 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.7973]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	23090.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	15470.00	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378057 Run Name: Injected: 24-NOV-2004 16:26
Filename: icp180228 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	10490.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	8721.000	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378066 Run Name: Injected: 24-NOV-2004 17:22
Filename: icp180237 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.0550]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	36760.00	100.0000	ug/L	<RL	>LR ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	8408.000	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378078 Run Name: Injected: 24-NOV-2004 18:16
Filename: icp180249 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	10190.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	7892.000	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378090 Run Name: Injected: 24-NOV-2004 19:20
Filename: icp180261 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	10170.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	8709.000	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378102 Run Name: Injected: 24-NOV-2004 20:10
Filename: icp180273 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.8659]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	20760.00	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	8543.000	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

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Page 1 of 1

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14474378006 Run Name: Injected: 24-NOV-2004 10:34
Filename: icp180176 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[19.310]	60.00000	ug/L	<RL	
Arsenic	[57.390]	500.0000	ug/L	<RL	
Barium	[0.7583]	10.00000	ug/L	<RL	
Beryllium	[-0.072]	2.000000	ug/L	<RL	
Boron	[-51.16]	100.0000	ug/L	<RL	
Cadmium	[2.0150]	5.000000	ug/L	<RL	
Chromium	[2.2480]	10.00000	ug/L	<RL	
Cobalt	[0.8885]	20.00000	ug/L	<RL	
Copper	[-0.712]	10.00000	ug/L	<RL	
Lead	[95.740]	300.0000	ug/L	<RL	
Manganese	[-8.833]	10.00000	ug/L	<RL	
Molybdenum	[4.2910]	20.00000	ug/L	<RL	
Nickel	[11.990]	20.00000	ug/L	<RL	
Phosphorus	33660.00	100.0000	ug/L	<RL	a+ ***
Potassium	[95.230]	500.0000	ug/L	<RL	
Selenium	[118.90]	500.0000	ug/L	<RL	
Silicon	16490.00	200.0000	ug/L	<RL	a+ ***
Silver	[-1.343]	5.000000	ug/L	<RL	
Sodium	[-177.7]	500.0000	ug/L	<RL	
Sulfide	22.96000	1.000000	mg/L	<RL	a+ ***
Thallium	[25.550]	500.0000	ug/L	<RL	
Tin	[-37.79]	40.00000	ug/L	<RL	
Titanium	[3.2430]	10.00000	ug/L	<RL	
Vanadium	[-7.503]	10.00000	ug/L	<RL	
Zinc	[-13.70]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	534800	ug/L	107
Calcium	500000	1965000	ug/L	393
Iron	200000	191700	ug/L	96
Magnesium	500000	501900	ug/L	100

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Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378007

Run Name :
Filename : icp180177

Injected : 24-NOV-2004 10:36
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	523800.0	ug/L	5		
Antimony	2000.000	1949.000	ug/L	-3	20	
Arsenic	2000.000	2005.000	ug/L	0	20	
Barium	500.0000	473.9000	ug/L	-5	20	
Beryllium	500.0000	494.6000	ug/L	-1	20	
Cadmium	1000.000	961.2000	ug/L	-4	20	
Calcium	500000.0	2018000	ug/L	304		
Chromium	500.0000	476.1000	ug/L	-5	20	
Cobalt	500.0000	473.4000	ug/L	-5	20	
Copper	500.0000	478.5000	ug/L	-4	20	
Iron	200000.0	188100.0	ug/L	-6		
Lead	1000.000	1023.000	ug/L	2	20	
Magnesium	500000.0	496700.0	ug/L	-1		
Manganese	500.0000	466.0000	ug/L	-7	20	
Molybdenum	500.0000	482.6000	ug/L	-3	20	
Nickel	1000.000	931.3000	ug/L	-7	20	
Selenium	2000.000	2095.000	ug/L	5	20	
Silver	1000.000	949.3000	ug/L	-5	20	
Thallium	2000.000	1985.000	ug/L	-1	20	
Titanium	2000.000	1870.000	ug/L	-7	20	
Vanadium	500.0000	468.4000	ug/L	-6	20	
Zinc	1000.000	1012.000	ug/L	1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14474378031
Run Name :
Filename : icp180201
Injected : 24-NOV-2004 12:59
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	519400.0	ug/L	4		
Antimony	2000.000	1864.000	ug/L	-7	20	
Arsenic	2000.000	2082.000	ug/L	4	20	
Barium	500.0000	470.1000	ug/L	-6	20	
Beryllium	500.0000	513.3000	ug/L	3	20	
Cadmium	1000.000	986.2000	ug/L	-1	20	
Calcium	500000.0	1985000	ug/L	297		
Chromium	500.0000	466.1000	ug/L	-7	20	
Cobalt	500.0000	465.7000	ug/L	-7	20	
Copper	500.0000	480.9000	ug/L	-4	20	
Iron	200000.0	167500.0	ug/L	-16		
Lead	1000.000	925.5000	ug/L	-7	20	
Magnesium	500000.0	493000.0	ug/L	-1		
Manganese	500.0000	466.1000	ug/L	-7	20	
Molybdenum	500.0000	486.9000	ug/L	-3	20	
Nickel	1000.000	978.7000	ug/L	-2	20	
Selenium	2000.000	1863.000	ug/L	-7	20	
Silver	1000.000	960.9000	ug/L	-4	20	
Thallium	2000.000	2100.000	ug/L	5	20	
Titanium	2000.000	1803.000	ug/L	-10	20	
Vanadium	500.0000	485.8000	ug/L	-3	20	
Zinc	1000.000	1048.000	ug/L	5	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14474378064 Filename : icp180235 Injected : 24-NOV-2004 17:09
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	565600.0	ug/L	13		
Antimony	2000.000	1939.000	ug/L	-3	20	
Arsenic	2000.000	2040.000	ug/L	2	20	
Barium	500.0000	488.9000	ug/L	-2	20	
Beryllium	500.0000	479.0000	ug/L	-4	20	
Cadmium	1000.000	1012.000	ug/L	1	20	
Calcium	500000.0	1919000	ug/L	284		
Chromium	500.0000	477.6000	ug/L	-4	20	
Cobalt	500.0000	473.6000	ug/L	-5	20	
Copper	500.0000	492.4000	ug/L	-2	20	
Iron	200000.0	187300.0	ug/L	-6		
Lead	1000.000	833.0000	ug/L	-17	20	
Magnesium	500000.0	524600.0	ug/L	5		
Manganese	500.0000	471.1000	ug/L	-6	20	
Molybdenum	500.0000	478.8000	ug/L	-4	20	
Nickel	1000.000	947.7000	ug/L	-5	20	
Selenium	2000.000	1996.000	ug/L	0	20	
Silver	1000.000	1010.000	ug/L	1	20	
Thallium	2000.000	1953.000	ug/L	-2	20	
Titanium	2000.000	1797.000	ug/L	-10	20	
Vanadium	500.0000	484.7000	ug/L	-3	20	
Zinc	1000.000	1034.000	ug/L	3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14474378100 Filename : icp180271 Injected : 24-NOV-2004 19:54
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	556300.0	ug/L	11		
Antimony	2000.000	1960.000	ug/L	-2	20	
Arsenic	2000.000	1997.000	ug/L	0	20	
Barium	500.0000	491.8000	ug/L	-2	20	
Beryllium	500.0000	480.6000	ug/L	-4	20	
Cadmium	1000.000	1002.000	ug/L	0	20	
Calcium	500000.0	1866000	ug/L	273		
Chromium	500.0000	478.8000	ug/L	-4	20	
Cobalt	500.0000	472.2000	ug/L	-6	20	
Copper	500.0000	490.1000	ug/L	-2	20	
Iron	200000.0	182800.0	ug/L	-9		
Lead	1000.000	955.5000	ug/L	-4	20	
Magnesium	500000.0	519100.0	ug/L	4		
Manganese	500.0000	506.9000	ug/L	1	20	
Molybdenum	500.0000	489.3000	ug/L	-2	20	
Nickel	1000.000	940.2000	ug/L	-6	20	
Selenium	2000.000	2022.000	ug/L	1	20	
Silver	1000.000	999.7000	ug/L	0	20	
Thallium	2000.000	1787.000	ug/L	-11	20	
Titanium	2000.000	1799.000	ug/L	-10	20	
Vanadium	500.0000	481.3000	ug/L	-4	20	
Zinc	1000.000	1027.000	ug/L	3	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14474378 Instrument: MET01 TJA ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	icp18017	CS				24-NOV-2004 10:18	1.0	1.0			1	1:P=79070.0
002	icp18017	CS				24-NOV-2004 10:23	1.0	1.0	1		2	
003	icp18017	ICV				24-NOV-2004 10:25	1.0	1.0			3	1:P=29890.0
004	icp18017	ICB				24-NOV-2004 10:28	1.0	1.0	2			
005	icp18017	CRI				24-NOV-2004 10:31	1.0	1.0	1		4	
006	icp18017	ICSA				24-NOV-2004 10:34	1.0	1.0	3		5	6:CA=1965000
007	icp18017	ICSAB				24-NOV-2004 10:36	1.0	1.0			6	6:CA=2018000
008	icp18017	BLANK	QC273764	96858	WET Le	24-NOV-2004 10:52	1.0	5.0	4			1:NA=1697000
009	icp18017	BS	QC273765	96858	WET Le	24-NOV-2004 10:54	1.0	1.0				
010	icp18018	BSD	QC273766	96858	WET Le	24-NOV-2004 10:57	1.0	1.0				1:P=46720.0
011	icp18018	MSS	176196-001	96858	WET Le	24-NOV-2004 10:59	1.0	5.0	5			3:NA=1390000
012	icp18018	SDUP	QC273767	96858	WET Le	24-NOV-2004 11:01	1.0	5.0				2:NA=1497000
013	icp18018	SSPIKE	QC273768	96858	WET Le	24-NOV-2004 11:04	1.0	5.0				3:NA=1476000
014	icp18018	SAMPLE	176196-002	96858	WET Le	24-NOV-2004 11:17	1.0	5.0				2:NA=1407000
015	icp18018	CCV				24-NOV-2004 11:23	1.0	1.0			7	1:P=28730.0
016	icp18018	CCB				24-NOV-2004 11:28	1.0	1.0	2			1:P=46830.0
017	icp18018	BLANK	QC273535	96807	TCLP L	24-NOV-2004 11:31	1.0	1.0	4			1:NA=1.90E+7
018	icp18018	BS	QC273536	96807	TCLP L	24-NOV-2004 11:37	1.0	1.0				
019	icp18018	BSD	QC273537	96807	TCLP L	24-NOV-2004 11:40	1.0	1.0				
020	icp18019	MSS	176156-001	96807	TCLP L	24-NOV-2004 11:44	1.0	1.0	5			3:NA=1.90E+7
021	icp18019	SDUP	QC273538	96807	TCLP L	24-NOV-2004 11:47	1.0	1.0				3:NA=1.90E+7
022	icp18019	SSPIKE	QC273539	96807	TCLP L	24-NOV-2004 11:50	1.0	1.0				3:NA=1.90E+7
023	icp18019	SAMPLE	176145-001	96807	TCLP L	24-NOV-2004 12:18	1.0	1.0				4:NA=1.90E+7
024	icp18019	SAMPLE	176221-001	96847	Miscel	24-NOV-2004 12:21	1.0	48.54				
025	icp18019	SAMPLE	176146-001	96807	TCLP L	24-NOV-2004 12:24	1.0	1.0				4:NA=1.90E+7
026	icp18019	CCV				24-NOV-2004 12:30	1.0	1.0			7	1:P=61150.0
027	icp18019	CCB				24-NOV-2004 12:35	1.0	1.0	2			
028	icp18019	SAMPLE	176159-001	96807	TCLP L	24-NOV-2004 12:44	1.0	1.0				4:NA=1.90E+7
029	icp18019	SAMPLE	176170-001	96807	TCLP L	24-NOV-2004 12:50	1.0	1.0				3:NA=1.80E+7
030	icp18020	SAMPLE	176171-001	96807	TCLP L	24-NOV-2004 12:55	1.0	1.0				4:NA=1.90E+7
031	icp18020	ICSAB				24-NOV-2004 12:59	1.0	1.0			6	6:CA=1985000

Stds used: 1=04WS1970 2=04WS2038 3=04WS1780 4=04WS2161 5=04WS1702 6=04WS1846 7=04WS1781

Analyst: K Carlyon Date: 11/24/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14474378 Instrument: MET01 TJA ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	icp18020	CCV				24-NOV-2004 13:09	1.0	1.0			7	
033	icp18020	CCB				24-NOV-2004 13:17	1.0	1.0	2			
034	icp18020	SAMPLE	176234-002	96861	Water	24-NOV-2004 14:17	1.0	1.0				4:NA=1.90E+7
035	icp18020	SAMPLE	176234-003	96861	Water	24-NOV-2004 14:20	1.0	1.0	2			4:NA=1.10E+7
036	icp18020	SAMPLE	176234-003	96861	Water	24-NOV-2004 14:25	20.0	1.0				1:P=28060.0
037	icp18020	SAMPLE	176234-004	96861	Water	24-NOV-2004 14:33	1.0	1.0				1:P=27860.0
038	icp18020	SAMPLE	176234-005	96861	Water	24-NOV-2004 14:38	1.0	1.0	3			5:NA=1.90E+7
039	icp18020	SAMPLE	176234-005	96861	Water	24-NOV-2004 14:42	20.0	1.0				
040	icp18021	SAMPLE	176229-001	96861	Water	24-NOV-2004 14:44	1.0	1.0				1:SI=98650.0
041	icp18021	SAMPLE	176236-001	96861	Water	24-NOV-2004 14:49	1.0	1.0				2:SI=186700
042	icp18021	SAMPLE	176236-002	96861	Water	24-NOV-2004 14:53	1.0	1.0				
043	icp18021	BLANK	QC273779	96861	Filtra	24-NOV-2004 15:00	1.0	1.0	3			
044	icp18021	CCV				24-NOV-2004 15:13	1.0	1.0			7	1:P=33230.0
045	icp18021	CCB				24-NOV-2004 15:20	1.0	1.0	2			
046	icp18021	BS	QC273780	96861	Filtra	24-NOV-2004 15:29	1.0	1.0	3			1:P=31460.0
047	icp18021	BSD	QC273781	96861	Filtra	24-NOV-2004 15:32	1.0	1.0	4			
048	icp18021	MSS	176174-003	96861	Filtra	24-NOV-2004 15:35	1.0	1.0	7			5:CA=2111000
049	icp18022	MSS	176174-003	96861	Filtra	24-NOV-2004 15:38	20.0	1.0	3			
050	icp18022	MS	QC273782	96861	Filtra	24-NOV-2004 15:42	1.0	1.0	4	3		5:CA=2218000
051	icp18022	MSD	QC273783	96861	Filtra	24-NOV-2004 15:50	1.0	1.0	4	3		5:CA=2090000
052	icp18022	MS	QC273782	96861	Filtra	24-NOV-2004 15:56	20.0	1.0	4	6		
053	icp18022	MSD	QC273783	96861	Filtra	24-NOV-2004 16:00	20.0	1.0	4	10		1:P=28800.0
054	icp18022	SAMPLE	176174-004	96861	Filtra	24-NOV-2004 16:07	1.0	1.0				6:NA=2.00E+7
055	icp18022	SAMPLE	176174-005	96861	Filtra	24-NOV-2004 16:10	1.0	1.0				6:NA=2.00E+7
056	icp18022	CCV				24-NOV-2004 16:18	1.0	1.0	1		7	1:P=26240.0
057	icp18022	CCB				24-NOV-2004 16:26	1.0	1.0	2			
058	icp18022	SAMPLE	176238-003	96861	Water	24-NOV-2004 16:31	1.0	1.0				6:NA=1.90E+7
059	icp18023	SAMPLE	176238-003	96861	Filtra	24-NOV-2004 16:38	1.0	1.0				6:NA=2.00E+7
060	icp18023	SAMPLE	176238-004	96861	Filtra	24-NOV-2004 16:44	1.0	1.0				6:NA=2.00E+7
061	icp18023	SAMPLE	176238-005	96861	Filtra	24-NOV-2004 16:46	1.0	1.0	1			6:NA=2.00E+7
062	icp18023	SAMPLE	176238-008	96861	Filtra	24-NOV-2004 16:50	1.0	1.0				6:NA=1.90E+7

Stds used: 1=04WS1970 2=04WS2038 3=04WS1780 4=04WS2161 5=04WS1702 6=04WS1846 7=04WS1781

Analyst: K Carlyn Date: 11/24/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14474378 Instrument: MET01 TJA ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	icp18023	SAMPLE	176238-009	96861	Filtra	24-NOV-2004 16:57	1.0	1.0				6:NA=1.90E+7
064	icp18023	ICSAB				24-NOV-2004 17:09	1.0	1.0			6	6:CA=1919000
065	icp18023	CCV				24-NOV-2004 17:18	1.0	1.0			7	
066	icp18023	CCB				24-NOV-2004 17:22	1.0	1.0	2			1:P=36760.0
067	icp18023	MSS	176180-001	96876	Soil	24-NOV-2004 17:26	10.0	46.30	4			1:P=36770.0
068	icp18023	SER	QC273844	96876	Soil	24-NOV-2004 17:28	50.0	46.30	1			
069	icp18024	SAMPLE	176210-001	96876	Soil	24-NOV-2004 17:36	10.0	42.02				1:P=30730.0
070	icp18024	SAMPLE	176210-002	96876	Soil	24-NOV-2004 17:40	1.0	44.25	1			3:FE=229500
071	icp18024	SAMPLE	176210-002	96876	Soil	24-NOV-2004 17:43	5.0	44.25				1:P=46080.0
072	icp18024	SAMPLE	176210-003	96876	Soil	24-NOV-2004 17:46	10.0	47.17				
073	icp18024	SAMPLE	176210-004	96876	Soil	24-NOV-2004 17:49	10.0	40.32				1:P=25600.0
074	icp18024	SAMPLE	176210-005	96876	Soil	24-NOV-2004 17:51	10.0	47.17				
075	icp18024	MSS	176180-011	96876	Soil	24-NOV-2004 17:54	10.0	47.17	3			1:P=40810.0
076	icp18024	MS	QC273842	96876	Soil	24-NOV-2004 17:57	1.0	46.30	4			4:FE=375300
077	icp18024	CCV				24-NOV-2004 18:06	1.0	1.0			7	1:P=31360.0
078	icp18024	CCB				24-NOV-2004 18:16	1.0	1.0	2			
079	icp18025	MSD	QC273843	96876	Soil	24-NOV-2004 18:20	1.0	40.0		6		5:FE=412000
080	icp18025	MS	QC273846	96876	Soil	24-NOV-2004 18:23	1.0	45.87	1			5:AL=490200
081	icp18025	MSD	QC273847	96876	Soil	24-NOV-2004 18:26	1.0	49.02		2		5:AL=489500
082	icp18025	BLANK	QC273839	96876	Soil	24-NOV-2004 18:43	1.0	50.0	3			
083	icp18025	SAMPLE	176210-006	96876	Soil	24-NOV-2004 18:47	10.0	49.50	1			
084	icp18025	SAMPLE	176210-007	96876	Soil	24-NOV-2004 18:51	10.0	43.10				
085	icp18025	SAMPLE	176210-008	96876	Soil	24-NOV-2004 18:55	10.0	43.86	1			1:P=25130.0
086	icp18025	SAMPLE	176210-009	96876	Soil	24-NOV-2004 18:57	10.0	43.10				
087	icp18025	SAMPLE	176210-010	96876	Soil	24-NOV-2004 19:02	10.0	45.87				
088	icp18025	SAMPLE	176210-011	96876	Soil	24-NOV-2004 19:05	10.0	46.73				
089	icp18026	CCV				24-NOV-2004 19:11	1.0	1.0			7	
090	icp18026	CCB				24-NOV-2004 19:20	1.0	1.0	2			
091	icp18026	SAMPLE	176180-002	96876	Soil	24-NOV-2004 19:27	1.0	46.73				5:FE=370700
092	icp18026	SAMPLE	176180-003	96876	Soil	24-NOV-2004 19:31	1.0	49.50	1			5:FE=336100
093	icp18026	SAMPLE	176180-003	96876	Soil	24-NOV-2004 19:34	1.0	49.50				5:FE=345100

Stds used: 1=04WS1970 2=04WS2038 3=04WS1780 4=04WS2161 5=04WS1702 6=04WS1846 7=04WS1781

Analyst: K Carlyn Date: 11/24/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14474378 Instrument: MET01 TJA ICP Begun: 24-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
094	icp18026	SAMPLE	176180-006	96876	Soil	24-NOV-2004 19:38	1.0	48.54			6:CA=1729000
095	icp18026	SAMPLE	176180-007	96876	Soil	24-NOV-2004 19:40	1.0	43.10			6:CA=901500
096	icp18026	SAMPLE	176180-012	96876	Soil	24-NOV-2004 19:43	1.0	43.10			6:CA=1489000
097	icp18026	SAMPLE	176180-018	96876	Soil	24-NOV-2004 19:46	1.0	47.17			4:FE=259900
098	icp18026	SAMPLE	176180-019	96876	Soil	24-NOV-2004 19:49	1.0	48.54	1		6:FE=432500
099	icp18027	SAMPLE	176180-019	96876	Soil	24-NOV-2004 19:51	1.0	48.54			6:FE=413500
100	icp18027	ICSAB				24-NOV-2004 19:54	1.0	1.0		6	6:CA=1866000
101	icp18027	CCV				24-NOV-2004 20:05	1.0	1.0		7	1:P=34340.0
102	icp18027	CCB				24-NOV-2004 20:10	1.0	1.0	2		

543

Stds used: 1=04WS1970 2=04WS2038 3=04WS1780 4=04WS2161 5=04WS1702 6=04WS1846 7=04WS1781

Analyst: K Carlyn Date: 11/24/04

REPORTING SUMMARY FOR 176210 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	TL	V	ZN
176210-001	MET07	11/24/04 16:57	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
176210-001	MET01	11/24/04 17:36	10.0									+		+								
176210-002	MET07	11/24/04 17:24	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176210-002	MET01	11/24/04 17:40	1.0																			
176210-002	MET01	11/24/04 17:43	5.0									+										
176210-003	MET07	11/24/04 17:29	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
176210-003	MET01	11/24/04 17:46	10.0									+		+								
176210-004	MET07	11/24/04 17:33	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176210-004	MET01	11/24/04 17:49	10.0									+										
176210-005	MET07	11/24/04 17:37	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
176210-005	MET01	11/24/04 17:51	10.0									+		+								
176210-006	MET07	11/24/04 17:42	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176210-006	MET01	11/24/04 18:47	10.0									+										
176210-007	MET04	11/23/04 17:44	1.0												+							
176210-007	MET07	11/24/04 17:46	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176210-007	MET01	11/24/04 18:51	10.0									+										
176210-008	MET07	11/24/04 17:50	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176210-008	MET01	11/24/04 18:55	10.0									+										
176210-009	MET07	11/24/04 17:55	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176210-009	MET01	11/24/04 18:57	10.0									+										
176210-010	MET07	11/24/04 17:59	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176210-010	MET01	11/24/04 19:02	10.0									+										
176210-011	MET07	11/24/04 18:03	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
176210-011	MET01	11/24/04 19:05	10.0									+		+								
QC273574	MET04	11/23/04 17:37	1.0												+							
QC273575	MET04	11/23/04 17:40	1.0												+							
QC273576	MET04	11/23/04 17:41	1.0												+							
QC273577	MET04	11/23/04 17:48	1.0												+							
QC273578	MET04	11/23/04 17:50	1.0												+							
QC273688	MET04	11/23/04 17:45	5.0												+							
QC273839	MET07	11/24/04 15:22	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+		+		+	+
QC273839	MET07	11/24/04 15:28	1.0															+		+		
QC273839	MET01	11/24/04 18:43	1.0																			
QC273840	MET07	11/24/04 15:32	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+

REPORTING SUMMARY FOR 176210 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	TL	V	ZN
QC273841	MET07	11/24/04 15:47	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC273842	MET07	11/24/04 16:16	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC273842	MET01	11/24/04 17:57	1.0									+										
QC273843	MET07	11/24/04 16:21	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC273843	MET01	11/24/04 18:20	1.0									+										
QC273844	MET07	11/24/04 16:27	5.0	+		+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC273844	MET07	11/24/04 16:33	5.0		+																	
QC273844	MET01	11/24/04 17:28	50.0									+										
QC273845	MET07	11/24/04 16:37	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC273846	MET07	11/24/04 16:47	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC273846	MET01	11/24/04 18:23	1.0									+										
QC273847	MET07	11/24/04 16:51	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
QC273847	MET01	11/24/04 18:26	1.0									+										

Curtis & Tompkins Laboratories **Sample Preparation Summary** **24-NOV-2004 16:01**

Batch Number : 96876
Date Extracted: 24-NOV-2004
Extracted by : Kevin Gaines
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176180-001			URS Corporation	Soil	1.08	g	50	46.296296	1					BA, CD, CR, (more)		
176180-002			URS Corporation	Soil	1.07	g	50	46.728972	1					BA, CD, CR, (more)		
176180-003			URS Corporation	Soil	1.01	g	50	49.504950	1					BA, CD, CR, (more)		
176180-006			URS Corporation	Soil	1.03	g	50	48.543689	1					BA, CD, CR, (more)		
176180-007			URS Corporation	Soil	1.16	g	50	43.103448	1					BA, CD, CR, (more)		
176180-011			URS Corporation	Soil	1.06	g	50	47.169811	1					BA, CD, CR, (more)		
176180-012			URS Corporation	Soil	1.16	g	50	43.103448	1					BA, CD, CR, (more)		
176180-018			URS Corporation	Soil	1.06	g	50	47.169811	1					BA, CD, CR, (more)		
176180-019			URS Corporation	Soil	1.03	g	50	48.543689	1					BA, CD, CR, (more)		
176210-001			Treadwell & Rollo	Soil	1.19	g	50	42.016807	1					T26/ICP		
176210-002			Treadwell & Rollo	Soil	1.13	g	50	44.247788	1					T26/ICP		
176210-003			Treadwell & Rollo	Soil	1.06	g	50	47.169811	1					T26/ICP		
176210-004			Treadwell & Rollo	Soil	1.24	g	50	40.322581	1					T26/ICP		
176210-005			Treadwell & Rollo	Soil	1.06	g	50	47.169811	1					T26/ICP		
176210-006			Treadwell & Rollo	Soil	1.01	g	50	49.504950	1					T26/ICP		
176210-007			Treadwell & Rollo	Soil	1.16	g	50	43.103448	1					T26/ICP		
176210-008			Treadwell & Rollo	Soil	1.14	g	50	43.859649	1					T26/ICP		
176210-009			Treadwell & Rollo	Soil	1.16	g	50	43.103448	1					T26/ICP		
176210-010			Treadwell & Rollo	Soil	1.09	g	50	45.871560	1					T26/ICP		
176210-011			Treadwell & Rollo	Soil	1.07	g	50	46.728972	1					T26/ICP		
QC273839	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC273840	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC273841	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC273842	MS	of 176180-001		Soil	1.08	g	50	46.296296	1		.5	.5		ICAP		
QC273843	MSD	of 176180-001		Soil	1.25	g	50	40.000000	1		.5	.5		ICAP		
QC273844	SER	of 176180-001		Soil	1.08	g	50	46.296296	1					ICAP		
QC273845	PDS	of 176180-001		Soil	1.08	g	50	46.296296	1					ICAP		
QC273846	MS	of 176180-011		Soil	1.09	g	50	45.871560	1		.5	.5		ICAP		
QC273847	MSD	of 176180-011		Soil	1.02	g	50	49.019608	1		.5	.5		ICAP		

Prep Chemist: KC for K Gaines Reviewed By: K Carlyn Date: 11/24/04

Relinquished By: KC for K Gaines Received By: K Carlyn Date: 11/24/04

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 96876
Date Digested: 11/24/03
Digested by: KRA

Digestion Method
☑ EPA 3050b
☐ _____

BK 2025
Page 46

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BK	0	50	y	
BS	↓	↓	↓	
BSD	↓	↓	↓	
MS-01 A	1.08	↓	↓	
MSD-01	1.25	↓	↓	
176180-01	1.08	↓	↓	
MS-11 C	1.09	↓	↓	
MSD-11	1.07	↓	↓	
180-11	1.06	↓	↓	
-02 A	1.07	↓	↓	
03	1.01	↓	↓	
06	1.03	↓	↓	
07	1.16	↓	↓	
12	1.16	↓	↓	
18	1.04	↓	↓	
19	1.03	↓	↓	
20-01	1.19	↓	↓	
-02	1.13	↓	↓	
-03	1.06	↓	↓	
-04	1.24	↓	↓	
-05	1.06	↓	↓	
-06	1.01	↓	↓	
-07	1.16	↓	↓	
-08	1.14	↓	↓	
-09	1.16	↓	↓	
-10	1.09	↓	↓	
-11	1.07	↓	↓	

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	KRA 11/24
.5 mL of spike solution was added to all spikes	045S171	↓
	045S172	↓
1:1 HNO3	A270415 101504	↓
concentrated HNO3	A40031 BAKER	↓
3mL 30% hydrogen peroxide	44138425 VWR	↓
concentrated HCl	A33046 BAKER	↓
☑ filtered thru' Whatman # 541	K15660057	↓

11/24/04
Extraction Chemist / Date

Continued from page /
Continued on page /

11/24/04
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050B

Analyte	Units	MET01	MET07	MET08 A	MET08 R
Aluminum	mg/Kg	07/26/04 1.5	07/21/04 0.52		09/10/04 1.3
Antimony	mg/Kg	07/20/04 1.3	07/21/04 0.20	09/10/04 0.076	
Arsenic	mg/Kg	07/26/04 2.8	07/20/04 0.10	09/10/04 0.10	
Barium	mg/Kg	07/27/04 0.098	07/21/04 0.013		09/10/04 0.033
Beryllium	mg/Kg	07/20/04 0.029	07/21/04 0.0063	09/10/04 0.0056	
Cadmium	mg/Kg	07/20/04 0.14	07/21/04 0.028	09/10/04 0.0076	
Calcium	mg/Kg	07/26/04 2.8	07/21/04 0.58		09/10/04 1.5
Chromium	mg/Kg	07/20/04 0.29	07/21/04 0.033	09/10/04 0.013	
Cobalt	mg/Kg	07/20/04 0.39	07/21/04 0.076	09/10/04 0.0087	
Copper	mg/Kg	07/20/04 0.11	07/21/04 0.057	09/10/04 0.069	
Iron	mg/Kg	07/20/04 1.5	07/21/04 0.80		09/10/04 0.33
Lead	mg/Kg	07/26/04 7.9	07/20/04 0.065	09/10/04 0.078	
Magnesium	mg/Kg	07/20/04 1.5	07/21/04 0.52		09/10/04 1.2
Manganese	mg/Kg	07/20/04 0.11	07/20/04 0.11		09/10/04 0.023
Molybdenum	mg/Kg	07/20/04 0.43	07/21/04 0.062	09/10/04 0.032	
Nickel	mg/Kg	07/20/04 0.64	07/21/04 0.067	09/10/04 0.026	
Potassium	mg/Kg	07/27/04 18			09/17/04 3.7
Selenium	mg/Kg	07/27/04 8.1	07/21/04 0.17	09/10/04 0.18	
Silver	mg/Kg	07/26/04 0.18	07/21/04 0.098	09/10/04 0.035	
Sodium	mg/Kg	07/26/04 2.8			09/17/04 3.2
Thallium	mg/Kg	07/26/04 9.5	07/21/04 0.21	09/10/04 0.17	
Vanadium	mg/Kg	07/20/04 0.14	07/21/04 0.045	09/10/04 0.039	
Zinc	mg/Kg	07/20/04 0.17	07/21/04 0.17		09/10/04 0.091
Boron	mg/Kg	07/27/04 3.1		09/17/04 0.32	
Tin	mg/Kg	07/26/04 1.0		09/17/04 0.085	
Titanium	mg/Kg	07/26/04 0.099			09/17/04 0.068

CHLORINATED HERBICIDES

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Curtis & Tompkins
Attention: Steve Stanley
2323 Fifth Street
Berkeley CA 94710
Tel: (510)486-0900 Fax: (510)486-0532

Service ID #: 801-045546
Collected by:
Collected on: 11/22/04

Received: 11/24/04
Extracted: 12/03/04
Tested: 11/29-12/09/04
Reported: 12/14/04

Sample Description: Soil
Project Description: 176210 Presidio Baker Beach 3

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result BB3EX149[0.5] 04-05546-1
MOISTURE	ASTM-D2216	%Moisture	0.5	4.3
CHLORINATED HERBICIDES				
Dilution Factor				1
2,4-D	8151A	mg/kg	0.025	<0.026
2,4 DB	8151A	mg/kg	0.1	<0.10
DALAPON	8151A	mg/kg	0.1	<0.10
DICAMBA	8151A	mg/kg	0.01	<0.010
DICHLOROPROP	8151A	mg/kg	0.025	<0.026
DINOSEB (DNBP)	8151A	mg/kg	0.025	<0.026
MCPA	8151A	mg/kg	5	<5.2
MCPP	8151A	mg/kg	5	<5.2
2,4,5-T	8151A	mg/kg	0.01	<0.010
2,4,5-TP (SILVEX)	8151A	mg/kg	0.01	<0.010

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Level C Data Package Deliverables

General Information

Project: 176210 Presidio Baker Beach 3

APCL Service ID: 04-5546

Applied P & CH Laboratories
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: Presidio Baker Beach 3/176210

For Curtis & Tompkins

APCL Service No: 04-5546

1. Sample Identification

The sample identifications are listed in the following table:

Curtis & Tompkins Sample ID	APCL Sample ID
BB3EX149[0.5]	04-05546-1

2. Analytical Methodology

Samples are analyzed by EPA methods

8151A (Chlorinated herbicides),
ASTM-D2216 (Moisture, percent in soil),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None.

7. Note

All data for field and QC samples were reported from Channel "B".

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL III RUSH

Project Number: 176210
Site: Presidio Baker Beach 3

Subcontract Laboratory:
APCL
13760 Magnolia Ave.
Chino, CA 91710
(909) 590-1828
ATTN: Kenny Chan x163

Results due: ~~11/24/04~~ 5-Working Day Report Level: III 5546

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
BB3EX149[0.5]	11/22	Soil	8150	176210-007	●

Notes:	Relinquished By:	Received By:
Short QAPP list Flat File EDD	Date/Time: 11/23/04 12:51	Date/Time: 11/24/04 0930

Signature on this form constitutes a firm Purchase Order for the services requested above.
Page 1 of 1

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 5548 **Client Name/Project:** Curtis & Tompkins

1. Sample Arrival

Date/Time Received 11/24/04 0930 Date/Time Opened 11/24/04 0930 By (name): Kenny Chan

Custody Transfer: ☐ Client ☐ Golden State ☒ ~~UPS~~ courier ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 1
☑ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☑ #Samples OK? _____
☐ Sampled By : _____

3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3-V _____ _____ _____ _____

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☐ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☑ RUSH TAT: 5 days ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☑ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: [signature] Printed: 24 Nov 2004 7:29 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

04-05546 (0900_ 142) (4860900_ 142)

11/24/04

Part 1: General Information

☐	Company Information	Name:	*Curtis & Tompkins*
		Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
☐	Project Information	Project Description:	*Presidio Baker Beach 3*
		Project #:	*176210*
☐	Billing Information	P.O. #:	
		Bill Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
		Lab Project ID:	
		Client Database #:	*1*
☐	Receiving Information	Who Received Sample?	*Kenny*
		Receiving Date/Time:	*11/24/04 0930*
		COC No.	
☐	Shipping Information	Shipping Company	*Express*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*3.0 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA C*
☒	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	BB3EX149[0.5]		04-05546-1	S	J		125	1	G	112204	N	0	7	☑

Part 3: Analysis Information

Test Items:

- ☐ *8141A* Phosphorus pesticides
- ☐ *8141A* Organo-phosphorus
- ☐ *8151A* Chlorinated herbicides
- ☐ *ASTM-D2216* Moisture, percent in soil
- ☐ *9040B/150.1* pH

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	8141A	8141A	8151A	moist	pH	
1	BB3EX149[0.5]		04-05546-1	S			X	X	X	☑

Login By JASON M. NARIO

Check By

Level C Data Package Deliverables

Chlorinated Herbicides

Applied P & Ch Laboratory

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176210	Collection Date:	12/01/2004
Project ID:	Presidio Baker Beach 3	Service ID:	45546	Collected by:	
		Lab Sample ID:	04G4163-MB-01	Received Date:	12/01/2004
Sample ID:	**04G4163-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	03:33
Data File Name:	4163G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	94
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	90
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176210	Collection Date:	11/22/2004
Project ID:	Presidio Baker Beach 3	Service ID:	45546	Collected by:	
		Lab Sample ID:	04-5546-1	Received Date:	11/24/2004
Sample ID:	**BB3EX149[0.5]**	Sample Matrix	Soil	Moisture %:	4.3
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	05:35
Data File Name:	5546.001	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.026	<0.026	U
2	2,4 DB	94-82-6	mg/kg	0.10	<0.10	U
3	DALAPON	75-99-0	mg/kg	0.10	<0.10	U
4	DICAMBA	1918-00-9	mg/kg	0.010	<0.010	U
5	DICHLOROPROP	120-36-5	mg/kg	0.026	<0.026	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.026	<0.026	U
7	MCPA	94-74-6	mg/kg	5.2	<5.2	U
8	MCPP	93-65-2	mg/kg	5.2	<5.2	U
9	2,4,5-T	93-76-5	mg/kg	0.010	<0.010	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.010	<0.010	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	82
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	66
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	045546
Project ID:	Presidio Baker Beach 3	Project No:	176210	Sample Matrix:	Soil
		Batch No:	04G4163		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G4163-MB-01	04G4163-MB-01	94	0
2	04G4163-LCS-01	04G4163-LCS-01	82	0
3	04G4163-LSD-01	04G4163-LSD-01	87	0
4	BB3EX149[0.5]	04-5546-1	82	0
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	45546
Project ID:	Presidio Baker Beach 3	Project No:	176210	Sample Matrix:	Soil
		Batch No:	04G4163		
LCS Filename:	4163G.L01	Date Analyzed:	120904	Time Analyzed:	04:14
LCSD Filename:	4163G.J01	Date Analyzed:	120904	Time Analyzed:	04:55

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0417	83	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0457	91	65-135
2,4,5-T	mg/kg	0.050	0	0.0350	70	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0486	97	16	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0473	95	4	35	65-135
2,4,5-T	mg/kg	0.050	0.0370	74	6	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-4B

Applied P & CH Laboratories

Method Blank Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	45546
Project ID:	Presidio Baker Beach 3	Project No:	176210	Analysis Date:	12/09/04
		Sample Matrix:	Soil	Analysis Time:	03:33
Sample ID:	**04G4163-MB-01**	Batch No:	04G4163	Instrument ID:	GC: T
Lab Sample ID:	04G4163-MB-01	Data File Name:	4163G.K01	GC Column:	DB-608
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	04G4163-LCS-01	04G4163-LCS-01	Lab Control Spike	4163G.L01	12/09/04	04:14
2	04G4163-LSD-01	04G4163-LSD-01	Lab Control Spike Duplicate	4163G.J01	12/09/04	04:55
3	BB3EX149[0.5]	04-5546-1	Field Sample	5546.001	12/09/04	05:35
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

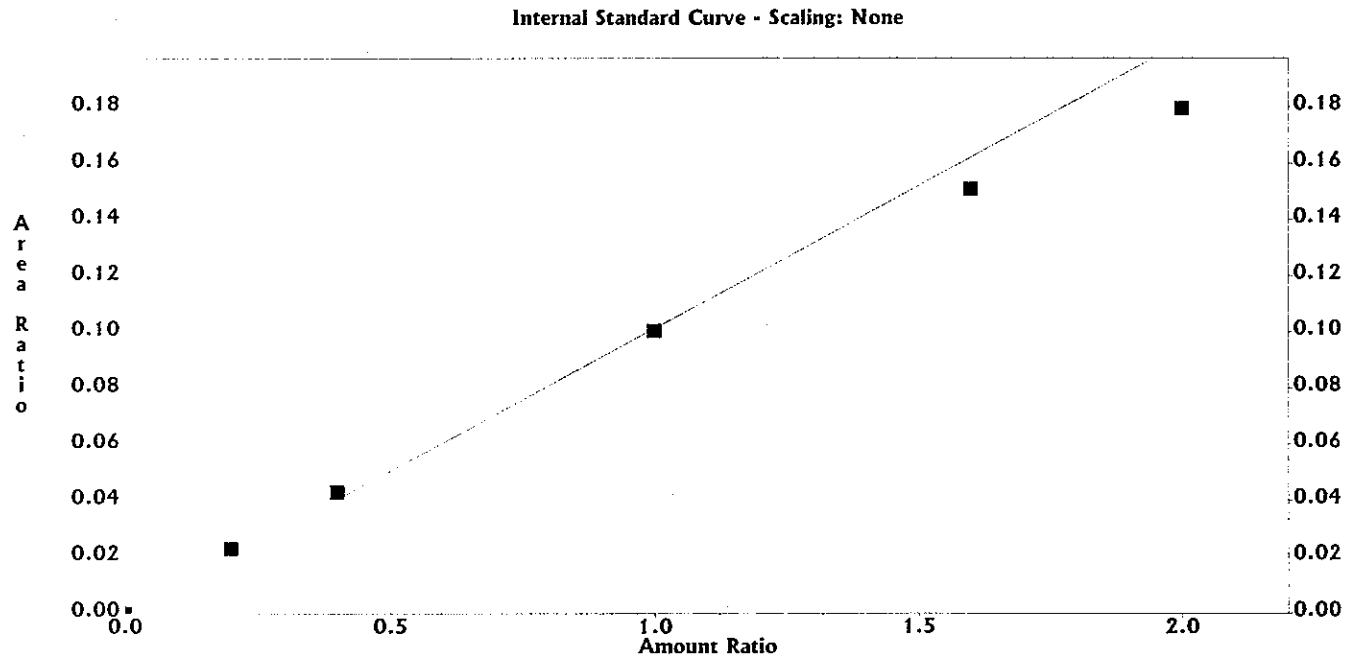
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:30
Channel : A
Peak : 1 Dalapon

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0230	0.2	0.1149	0.0230							0
2	0.0431	0.4	0.1077	0.0431							0
3	0.1005	1	0.1005	0.1005							0
4	0.1509	1.6	0.09432	0.1509							0
5	0.1795	2	0.08977	0.1795							0

Calib Flag: Replace

Average RF: 0.10143
RF StdDev: 0.0100612
RF %RSD: 9.939

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.10143



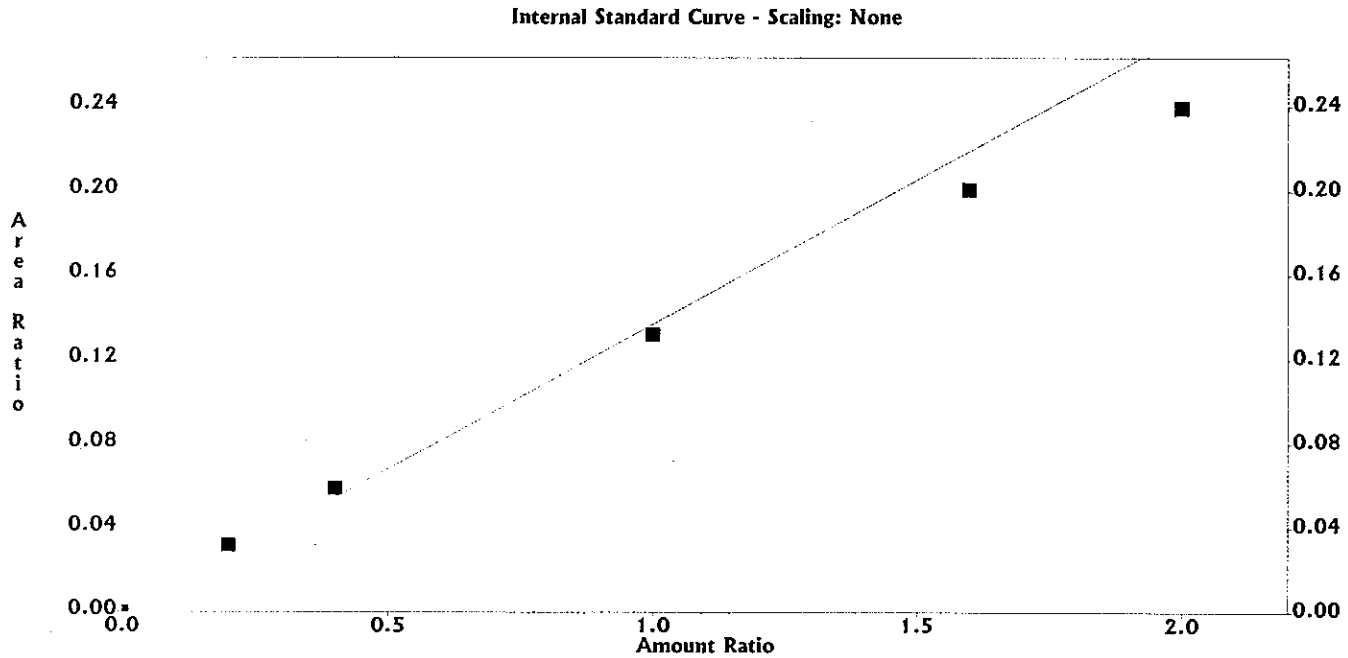
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:31
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0319	0.2	0.1597	0.0319							0
2	0.0591	0.4	0.1477	0.0591							0
3	0.1321	1	0.1321	0.1321							0
4	0.2009	1.6	0.1255	0.2009							0
5	0.2395	2	0.1198	0.2395							0

Calib Flag: Replace

Average RF: 0.136961
RF StdDev: 0.016454
RF %RSD: 12.014

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.136961



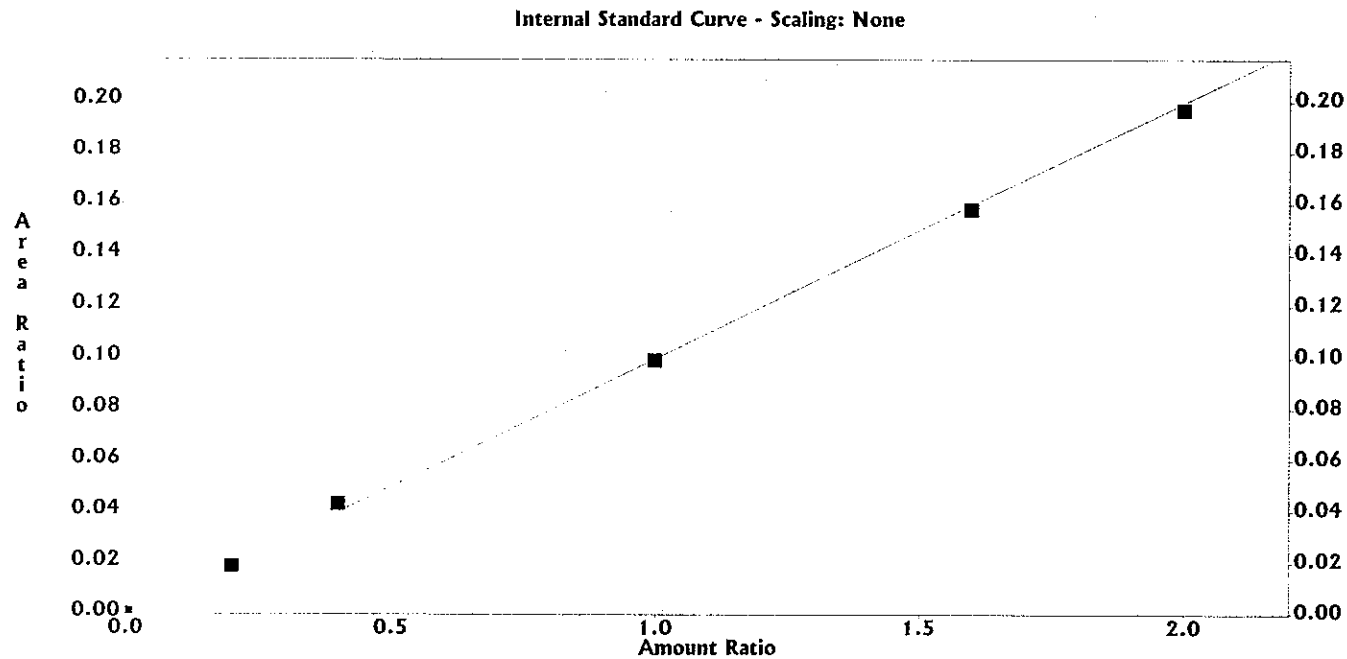
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:31
Channel : A
Peak : 3 4-Nitrophenol

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0189	0.2	0.09464	0.0189							0
2	0.0432	0.4	0.108	0.0432							0
3	0.0992	1	0.09919	0.0992							0
4	0.1578	1.6	0.0986	0.1578							0
5	0.1969	2	0.09846	0.1969							0

Calib Flag: Replace

Average RF: 0.0997833
RF StdDev: 0.00494462
RF %RSD: 4.955

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0997833



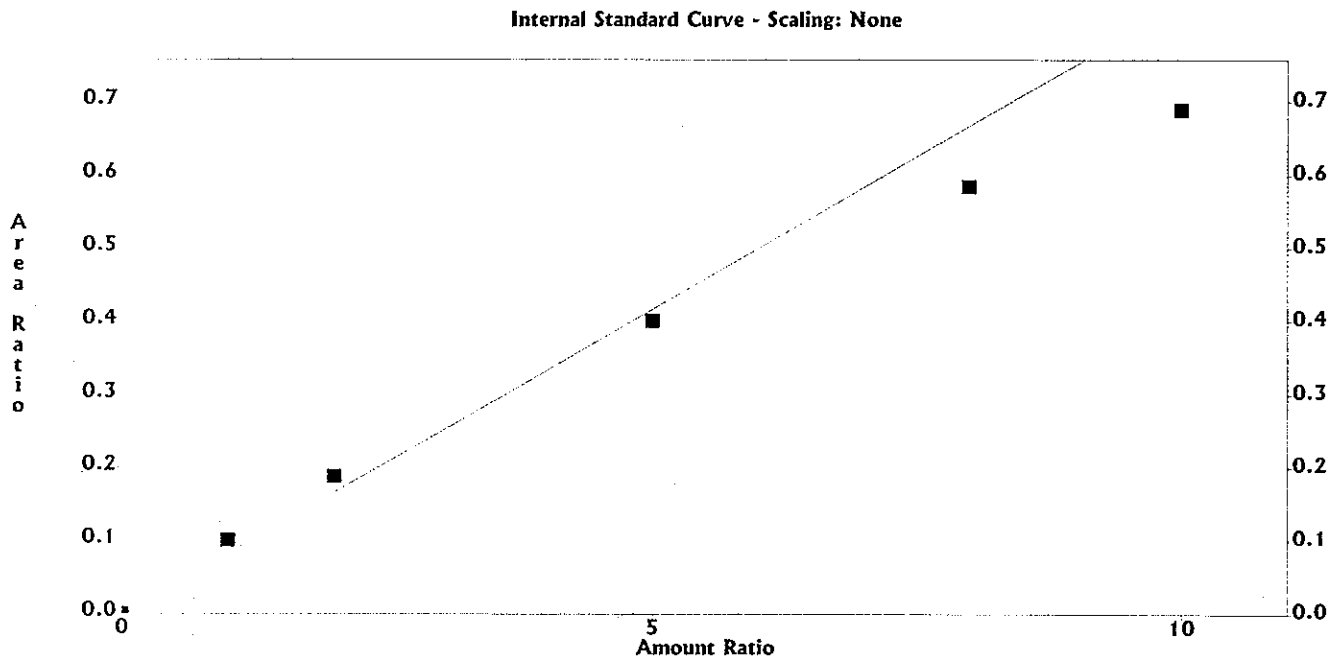
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:32
Channel : A
Peak : 4 DCAA(Surr)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1007	1	0.1007	0.1007							0
2	0.1883	2	0.09415	0.1883							0
3	0.4012	5	0.08025	0.4012							0
4	0.5846	8	0.07308	0.5846							0
5	0.6897	10	0.06897	0.6897							0

Calib Flag: Replace

Average RF: 0.0834315
RF StdDev: 0.0136018
RF %RSD: 16.303

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0834315



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:32
Channel : A
Peak : 5 Dicamba

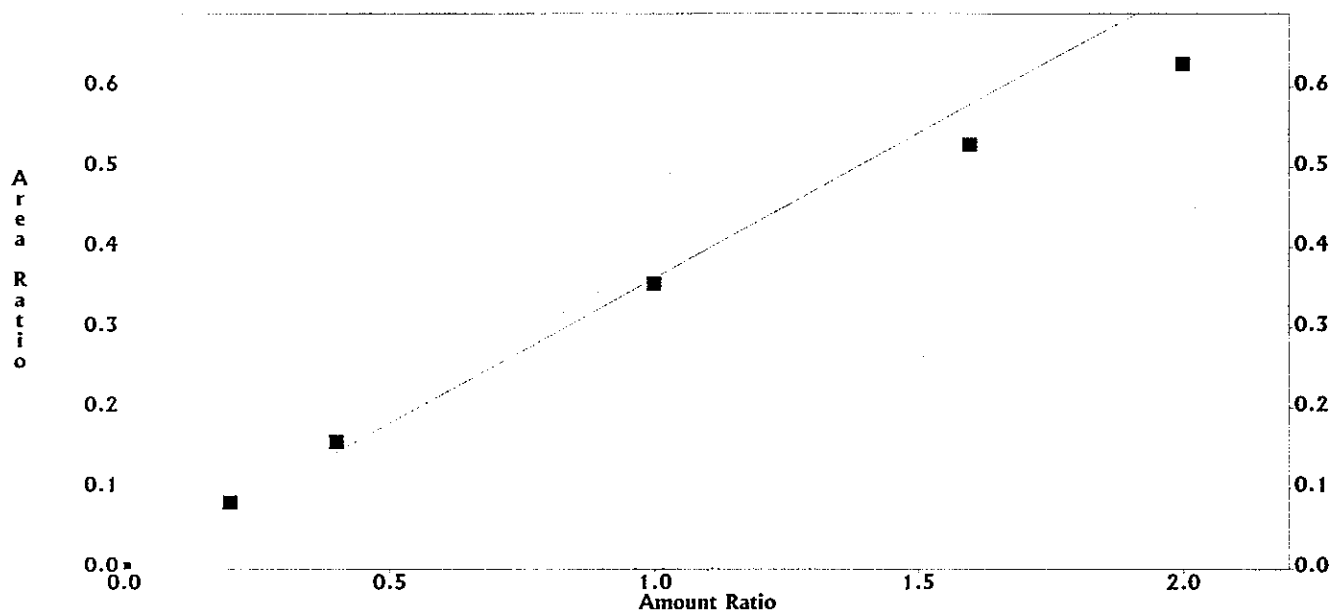
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0828	0.2	0.4139	0.0828							0
2	0.1578	0.4	0.3944	0.1578							0
3	0.3552	1	0.3552	0.3552							0
4	0.5284	1.6	0.3303	0.5284							0
5	0.6291	2	0.3145	0.6291							0

Calib Flag: Replace

Average RF: 0.361668
RF StdDev: 0.0419915
RF %RSD: 11.610

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.361668

Internal Standard Curve - Scaling: None



Method : C:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:33
Channel : A
Peak : 6 MCPP(ppm)

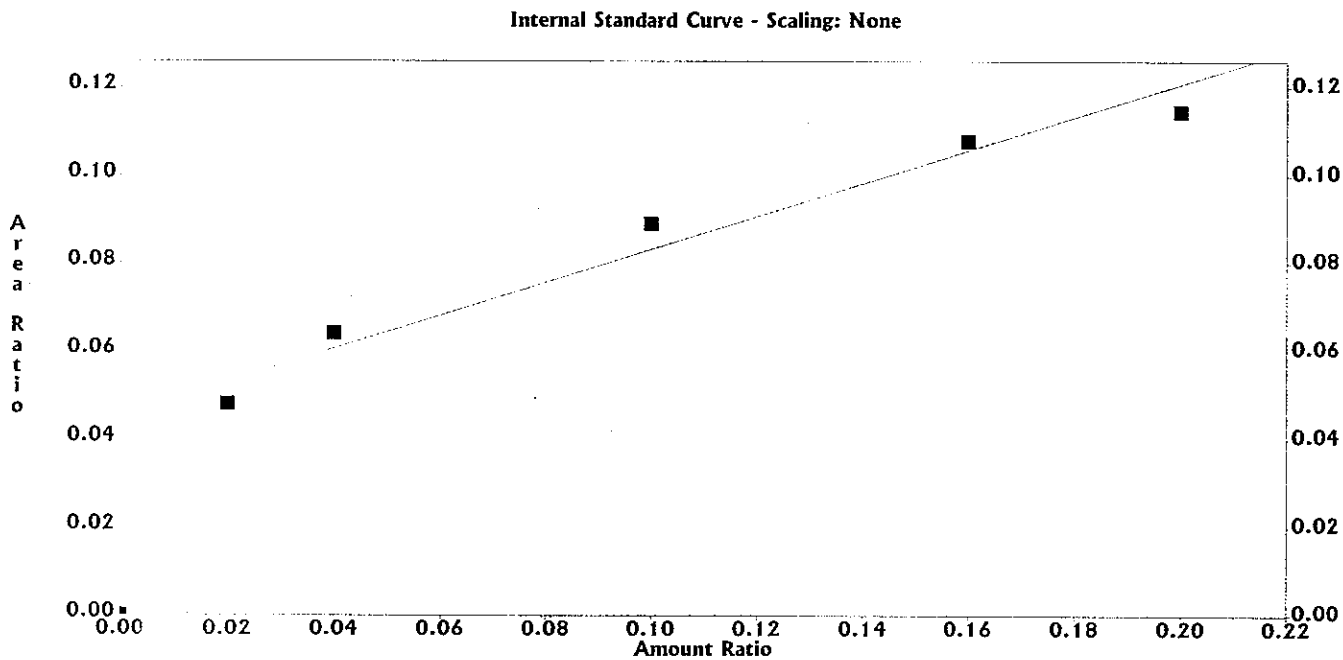
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0480	0.08	2.40	0.0480							0
2	0.0641	0.04	1.60	0.0641							0
3	0.0890	0.1	0.8902	0.0890							0
4	0.1077	0.16	0.6733	0.1077							0
5	0.1146	0.2	0.5728	0.1146							0

Calib Flag: Replace

Average RF: 1.12436
RF StdDev: 0.77563
RF %RSD: 69.476

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.66109 x Area - 0.12139
R^2 = 0.96546



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:33
Channel : A
Peak : 7 MCPA(PPm)

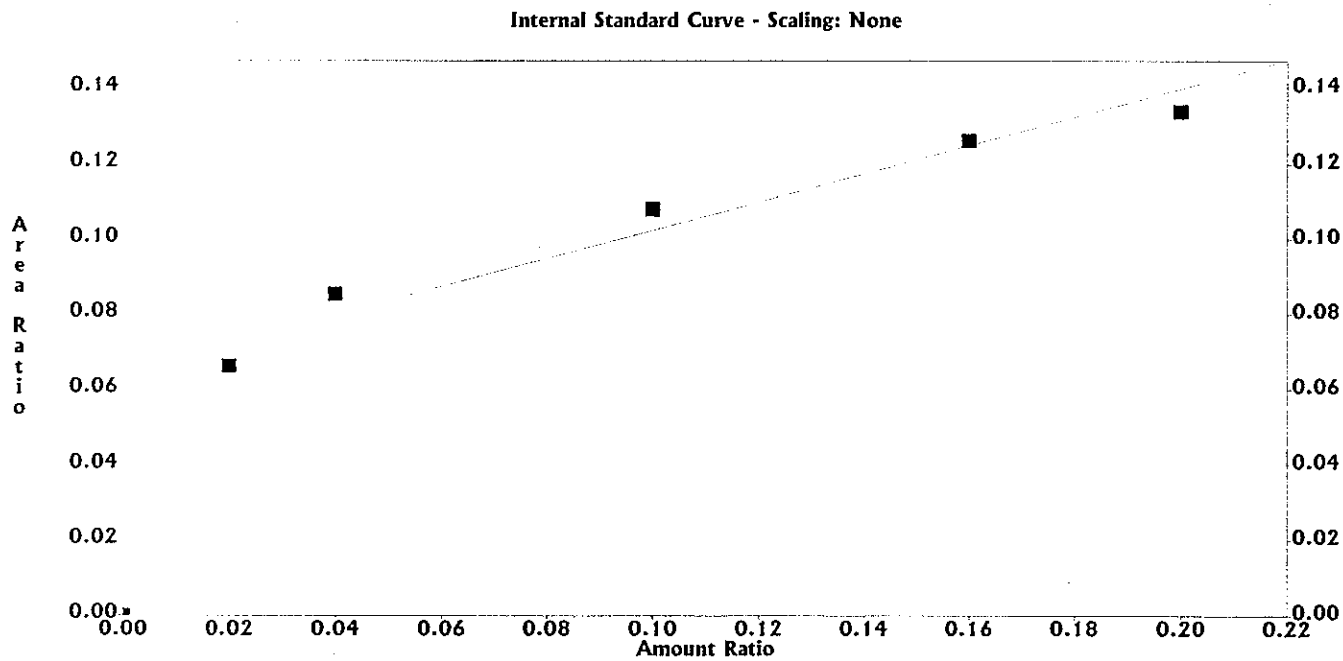
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0663	0.02	3.31	0.0663							0
2	0.0855	0.04	2.14	0.0855							0
3	0.1081	0.1	1.08	0.1081							0
4	0.1262	0.16	0.7888	0.1262							0
5	0.1340	0.2	0.6699	0.1340							0

Calib Flag: Replace

Average RF: 1.59813
RF StdDev: 1.12018
RF %RSD: 70.093

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.66484 x Area - 0.173163
R^2 = 0.958387



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:34
Channel : A
Peak : 8 Dichloroprop

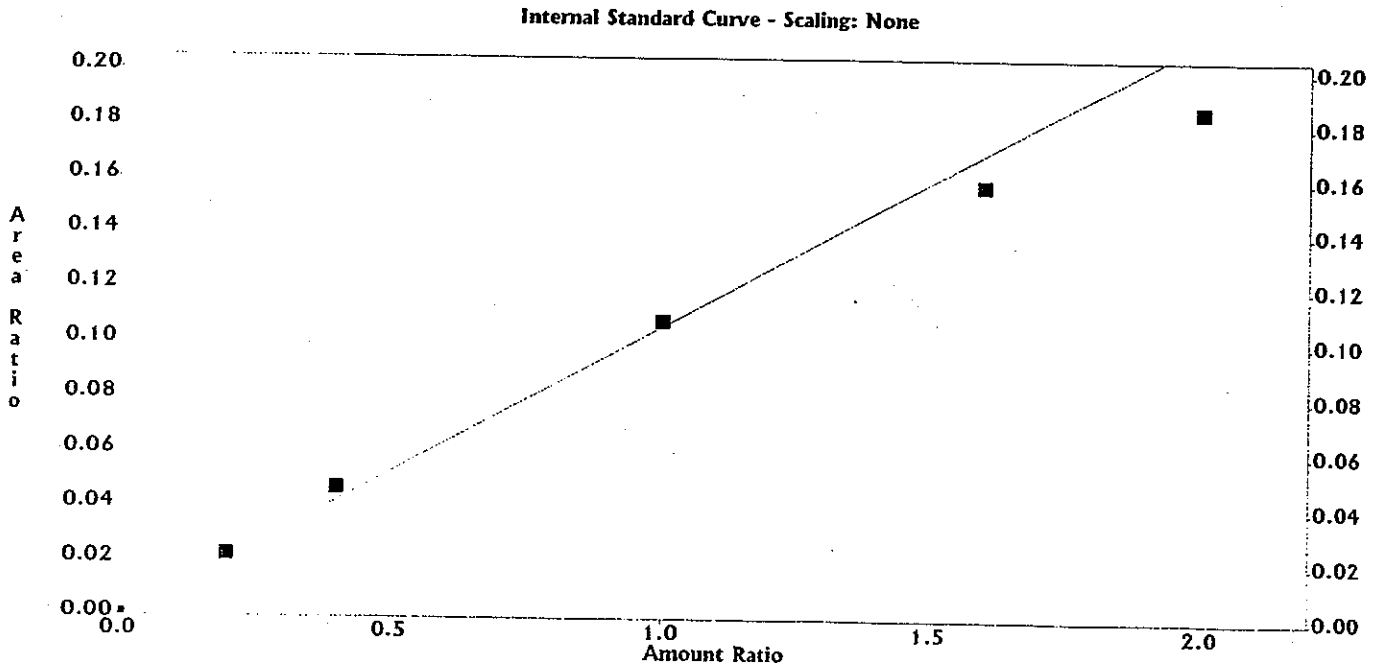
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0226	0.2	0.1132	0.0226							0
2	0.0473	0.4	0.1181	0.0473							0
3	0.1082	1	0.1082	0.1082							0
4	0.1583	1.6	0.09895	0.1583							0
5	0.1862	2	0.09311	0.1862							0

Calib Flag: Replace

Average RF: 0.106317
RF StdDev: 0.0102393
RF %RSD: 9.631

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.106317



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:34
Channel : A
Peak : 9 2,4-D (m)

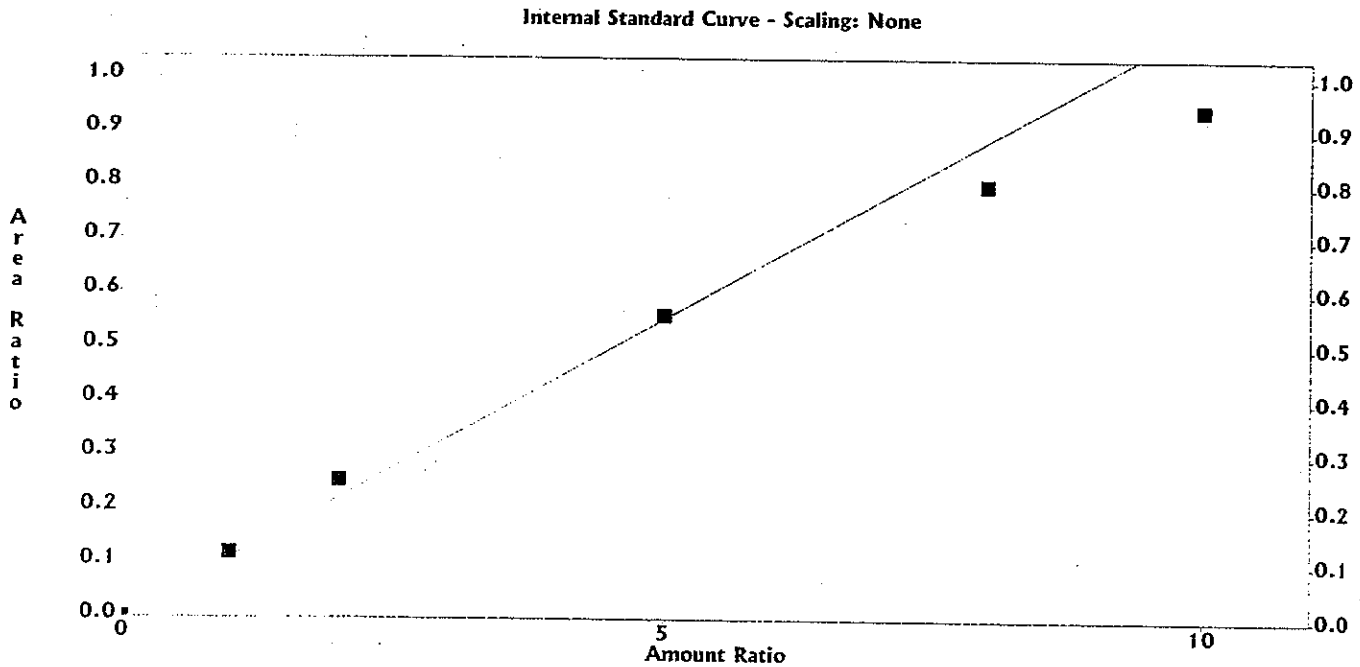
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1195	1	0.1195	0.1195							0
2	0.2539	2	0.127	0.2539							0
3	0.5596	5	0.1119	0.5596							0
4	0.8030	8	0.1004	0.8030							0
5	0.9450	10	0.0945	0.9450							0

Calib Flag: Replace

Average RF: 0.110653
RF StdDev: 0.0133476
RF %RSD: 12.063

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.110653



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:34
Channel : A
Peak : 10 DBOB (IS)

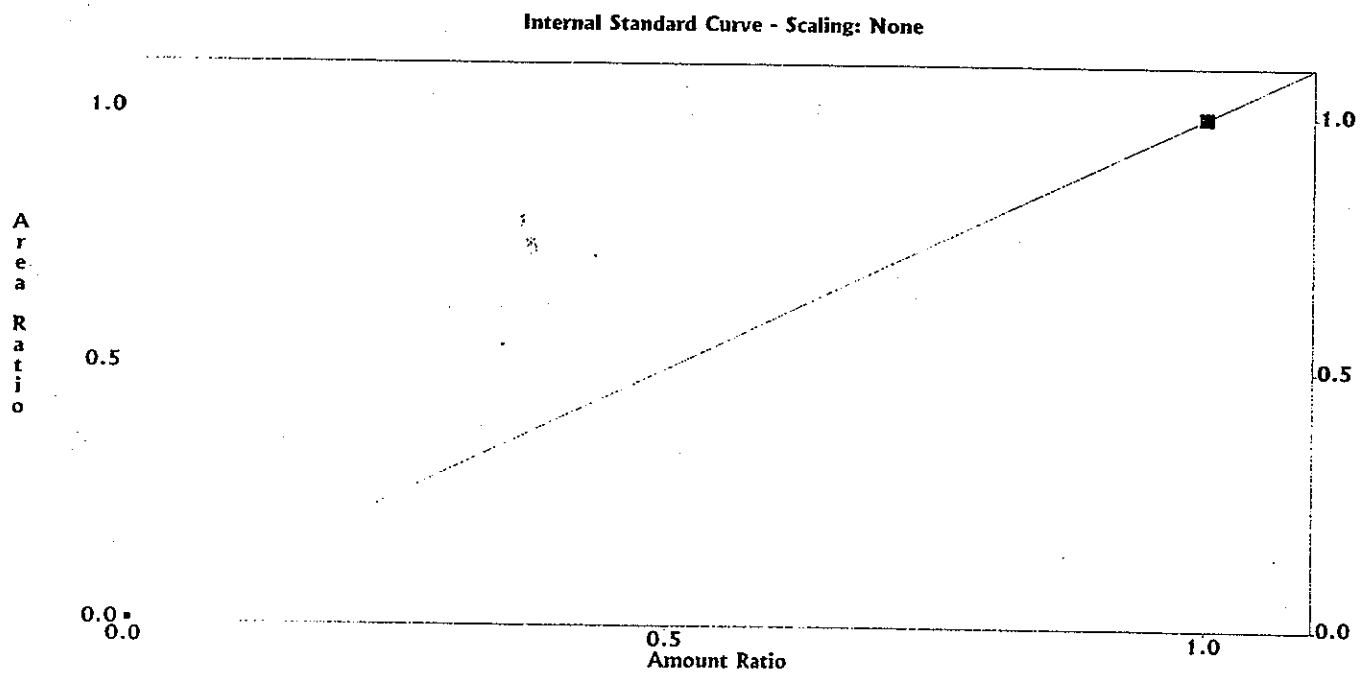
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:35
Channel : A
Peak : 11 Pentachlorphenol

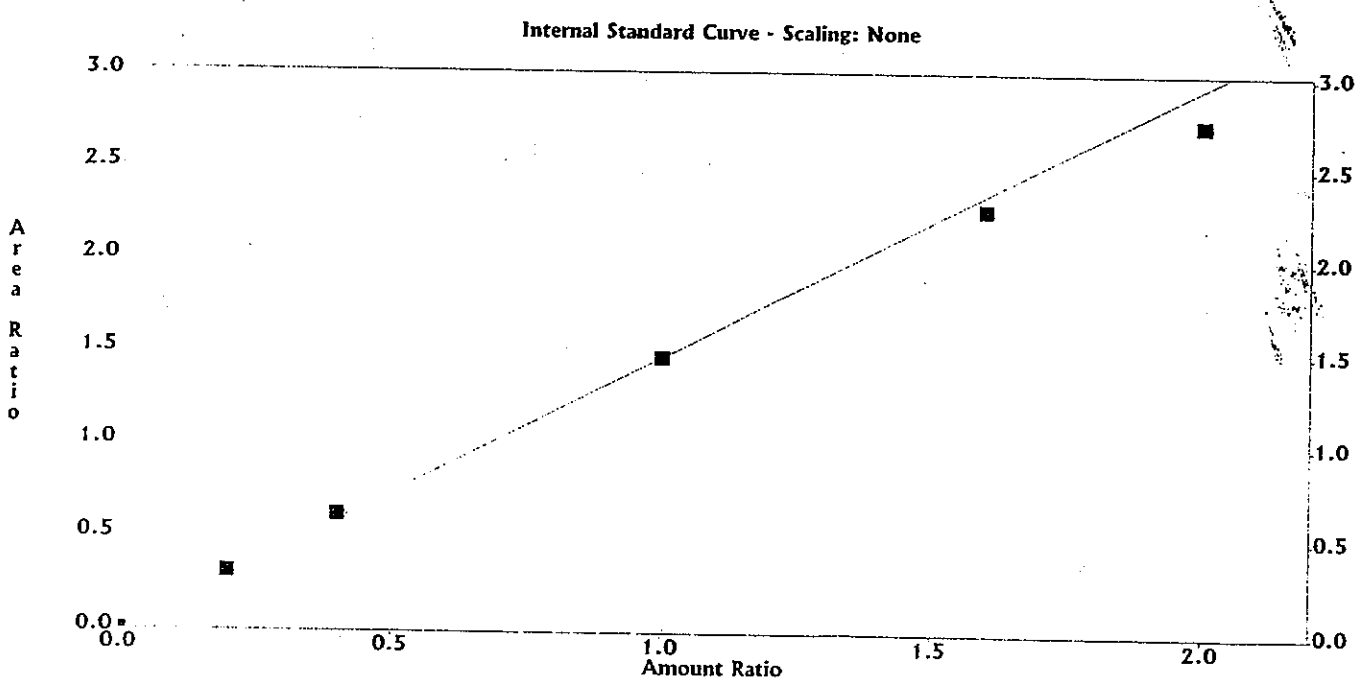
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3120	0.2	1.56	0.3120							
2	0.6192	0.4	1.55	0.6192							0
3	1.4760	1	1.48	1.4760							0
4	2.2798	1.6	1.42	2.2798							0
5	2.7497	2	1.37	2.7497							0
											0

Calib Flag: Replace

Average RF: 1.47671
RF StdDev: 0.0791547
RF %RSD: 5.360

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.47671



Meth[illegible]chrom\methods\8151-066.t00 * - Replicate Not Used
Print[illegible] 9, 2004 16:17:35
Chann[illegible]
Peak [illegible]vex (m)

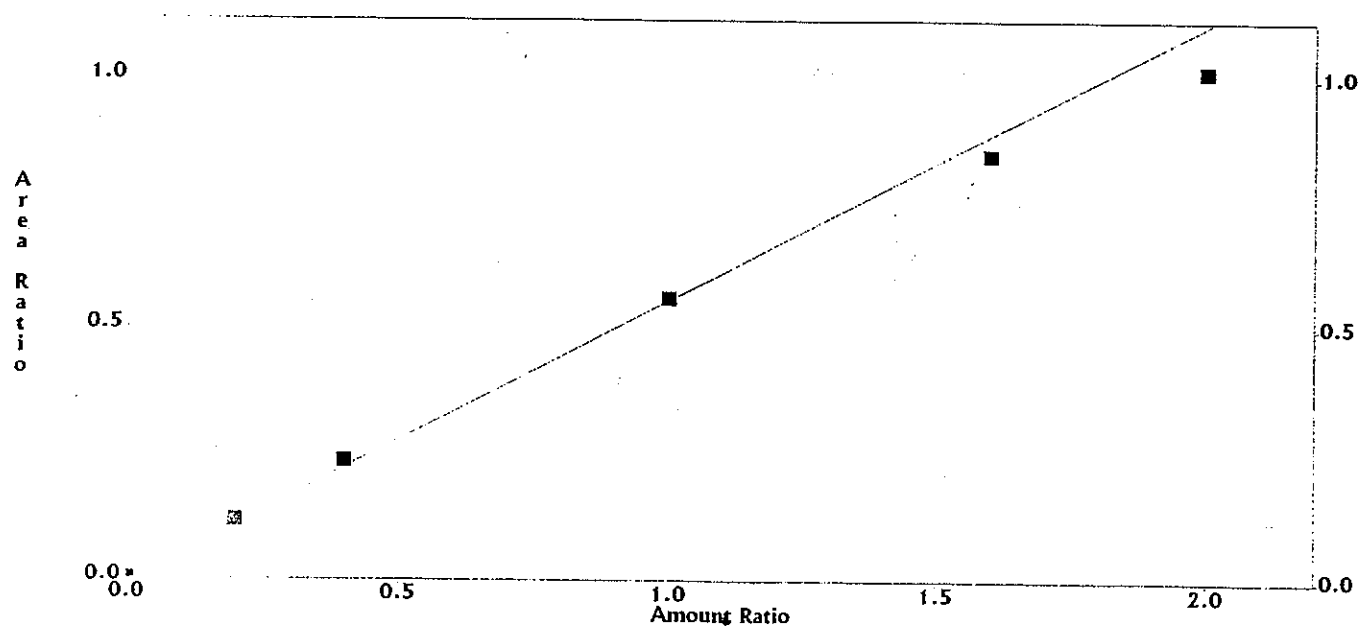
Level	Area Ratio			Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD Ratio	Replic %RSD	Old Area Ratio
1	0[illegible]	[illegible]	[illegible] 5891	0.1178							0
2	0[illegible]	[illegible]	[illegible] 5884	0.2354							0
3	0.[illegible]	1	0.559	0.5590							0
4	0.[illegible]	[illegible]	0.5293	0.8468							0
5	1.[illegible]	2	0.5083	1.0165							0

Calib Flag: [illegible]

Average RF: [illegible]
RF StdDev [illegible]
RF %RSD: [illegible]

RF Definition: [illegible] Amount
Average RF Fit: [illegible] Area / 0.55481

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:36
Channel : A
Peak : 13 Chloramben

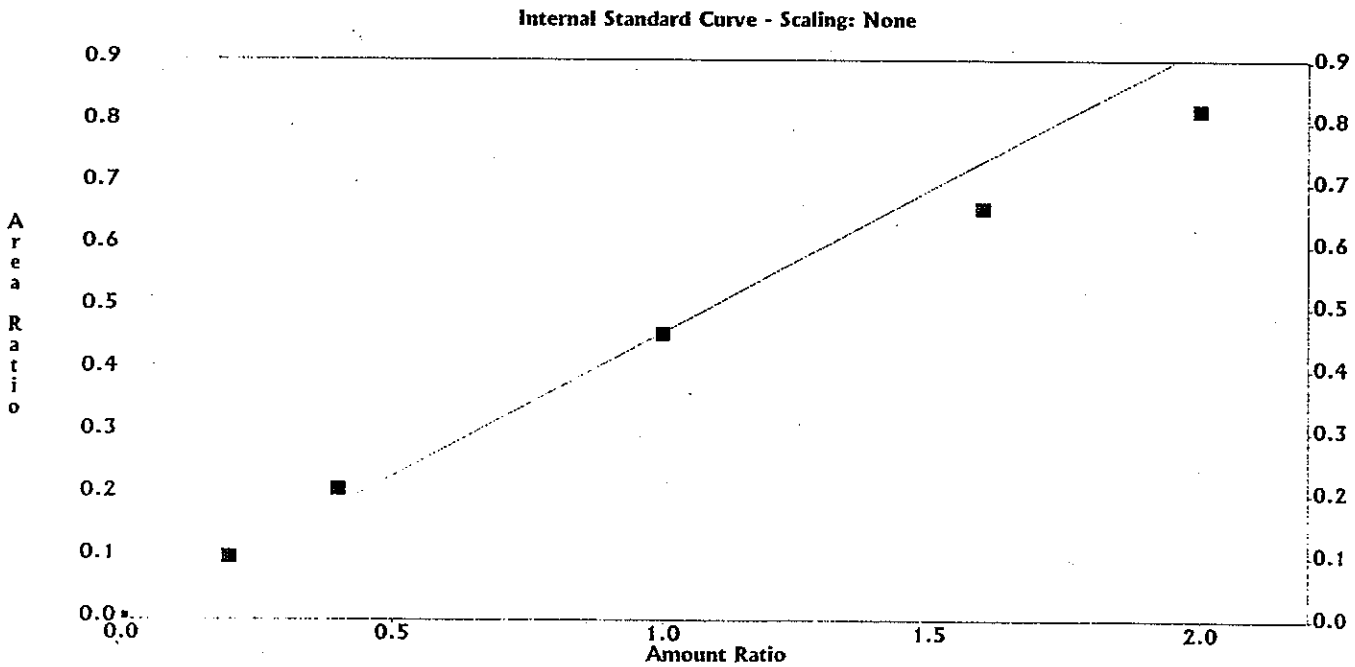
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0999	0.2	0.4997	0.0999							0
2	0.2099	0.4	0.5247	0.2099							0
3	0.4584	1	0.4584	0.4584							0
4	0.6608	1.6	0.413	0.6608							0
5	0.8206	2	0.4103	0.8206							0

Calib Flag: Replace

Average RF: 0.461232
RF StdDev: 0.0510831
RF %RSD: 11.075

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.461232



Method : [illegible] exchrom\methods\8151-066.t00
Printed : [illegible] 09, 2004 16:17:36
Channel : [illegible]
Peak [illegible] 2,4,5-T (m)

* - Replicate Not Used

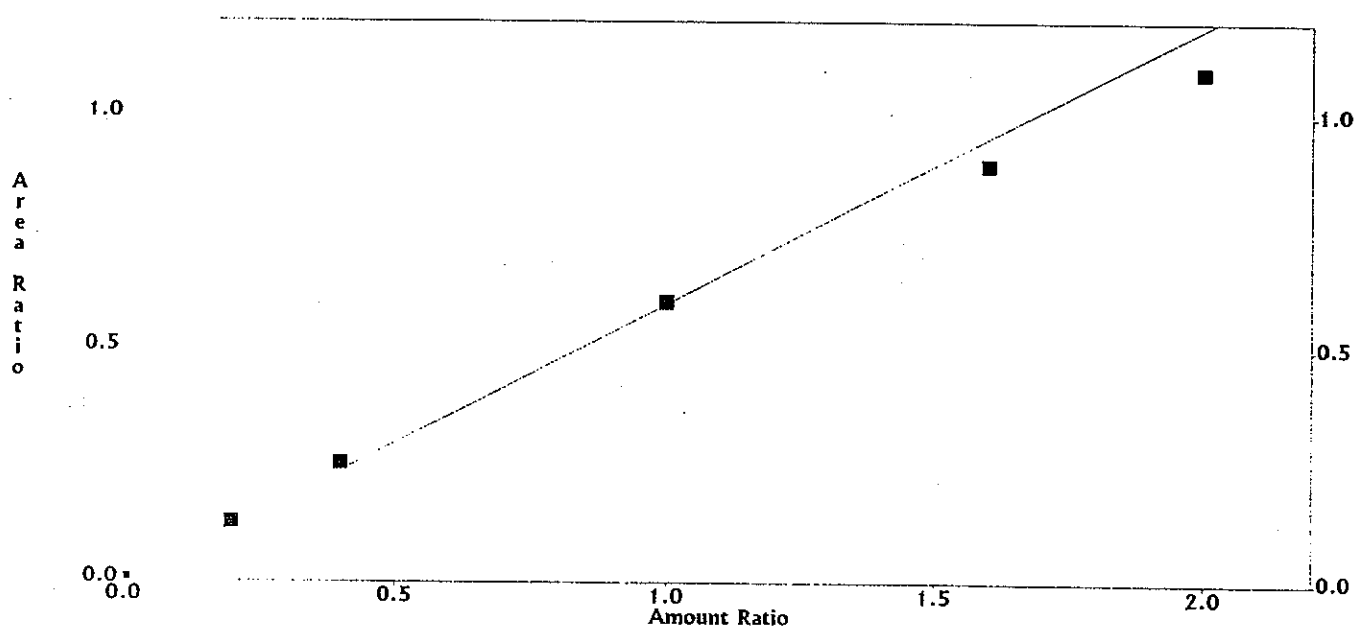
Level	Area Ratio	[illegible]	[illegible]	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1276	[illegible]	0.6378	0.1276							0
2	0.2548	[illegible]	0.6371	0.2548							0
3	0.6013	1	0.6013	0.6013							0
4	0.8949	[illegible]	0.5593	0.8949							0
5	1.0976	2	0.5488	1.0976							0

Calib Flag: Replace

Average RF: 0.59685
RF StdDev: 0.041[illegible]
RF %RSD: 7.02[illegible]

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.59685

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:37
Channel : A
Peak : 15 Dinoseb

* - Replicate Not Used

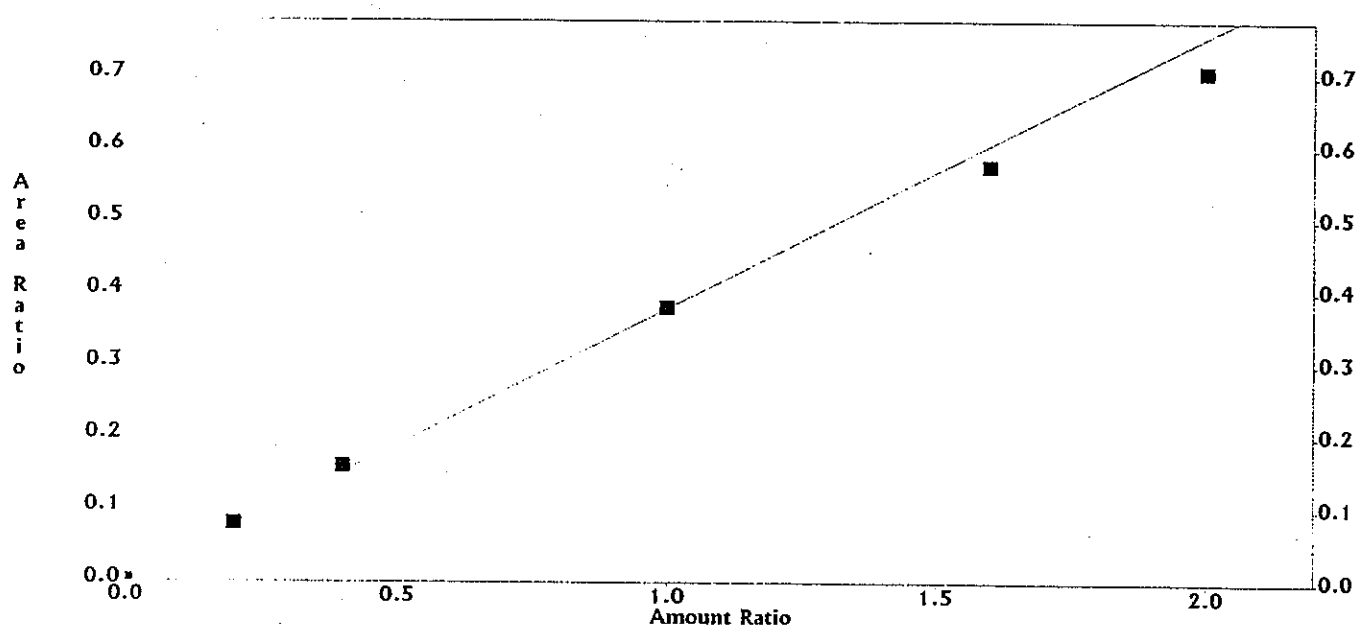
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0799	0.2	0.3996	0.0799							0
2	0.1596	0.4	0.3989	0.1596							0
3	0.3794	1	0.3794	0.3794							0
4	0.5756	1.6	0.3598	0.5756							0
5	0.7078	2	0.3539	0.7078							0

Calib Flag: Replace

Average RF: 0.378307
RF StdDev. 0.021309
RF %RSD: 5.633

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.378307

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:37
Channel : A
Peak : 16 2,4-DB

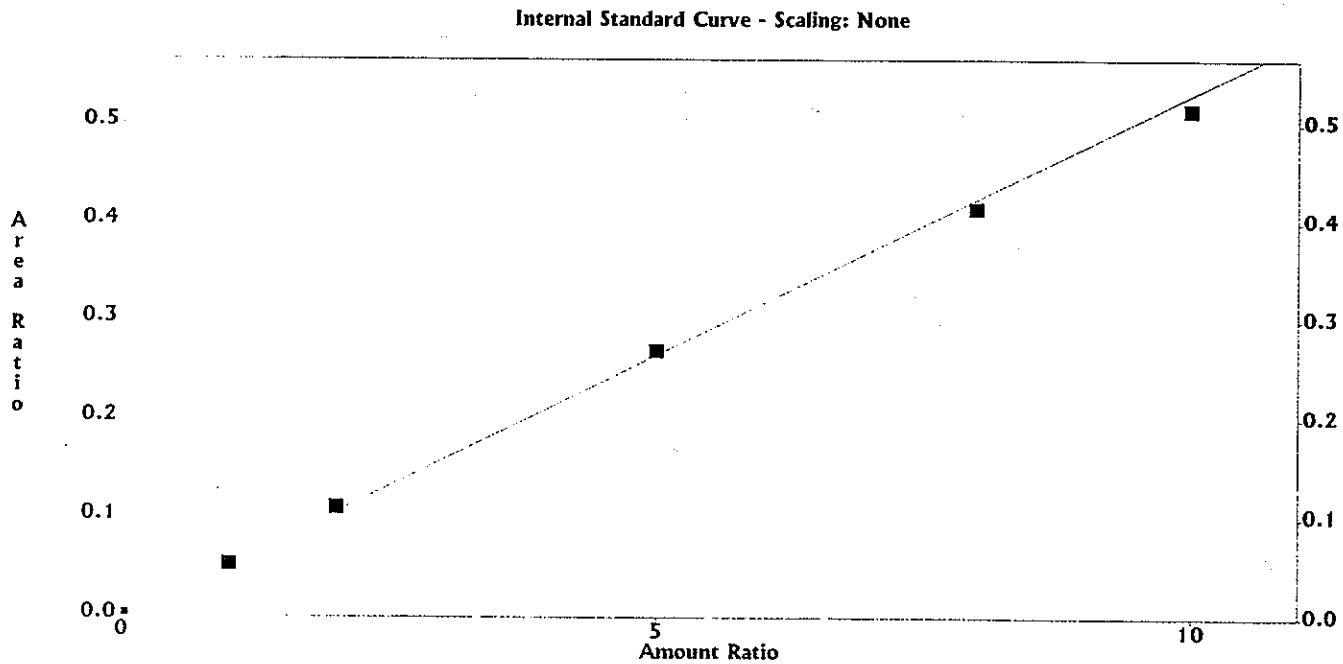
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0528	1	0.05281	0.0528							0
2	0.1105	2	0.05525	0.1105							0
3	0.2697	5	0.05394	0.2697							0
4	0.4146	8	0.05182	0.4146							0
5	0.5152	10	0.05152	0.5152							0

Calib Flag: Replace

Average RF: 0.0530675
RF StdDev: 0.00154441
RF %RSD: 2.910

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0530675



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:37
Channel : A
Peak : 17 Bentazon

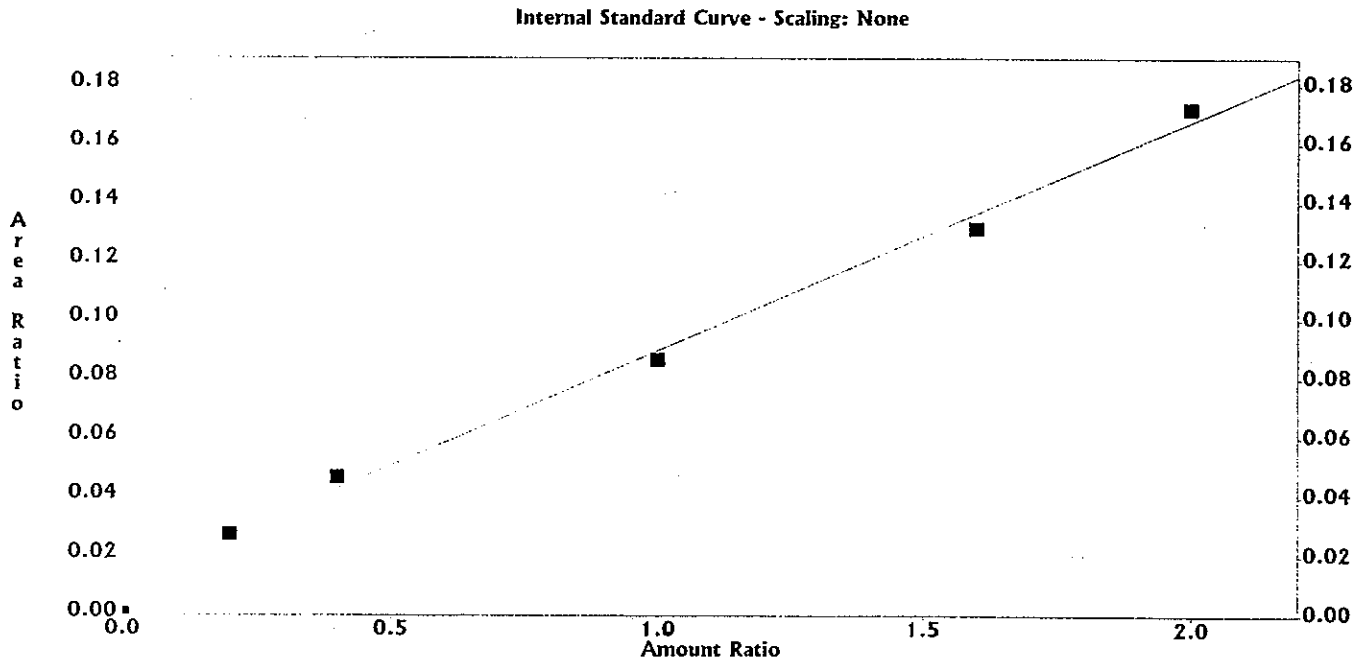
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0273	0.2	0.1365	0.0273							0
2	0.0466	0.4	0.1165	0.0466							0
3	0.0865	1	0.08655	0.0865							0
4	0.1313	1.6	0.08203	0.1313							0
5	0.1721	2	0.08607	0.1721							0

Calib Flag: Replace

Average RF: 0.101517
RF StdDev: 0.0239177
RF %RSD: 23.560

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 12.8206 x Area - 0.149279
R^2 = 0.995061



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:38
Channel : A
Peak : 18 Picloram

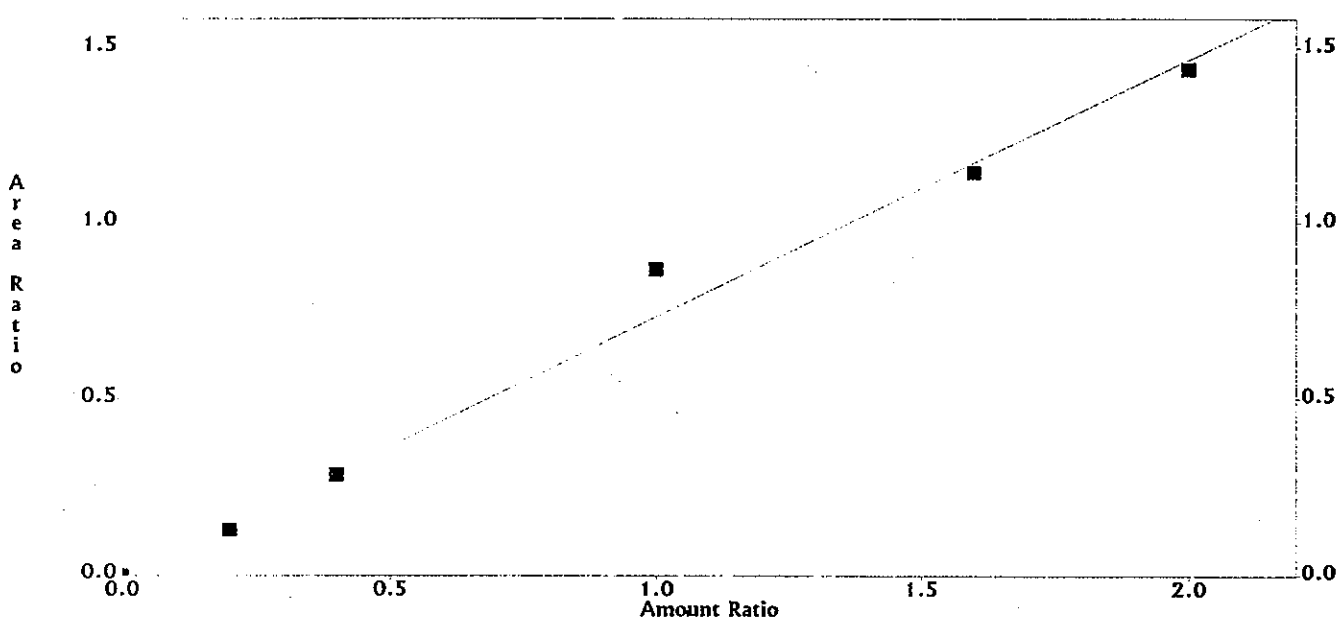
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1296	0.2	0.648	0.1296							0
2	0.2861	0.4	0.7153	0.2861							0
3	0.8685	1	0.8685	0.8685							0
4	1.1466	1.6	0.7166	1.1466							0
5	1.4410	2	0.7205	1.4410							0

Calib Flag: Replace

Average RF: 0.733773
RF StdDev: 0.081107
RF %RSD: 11.053

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.733773

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:38
Channel : A
Peak : 19 DCPA

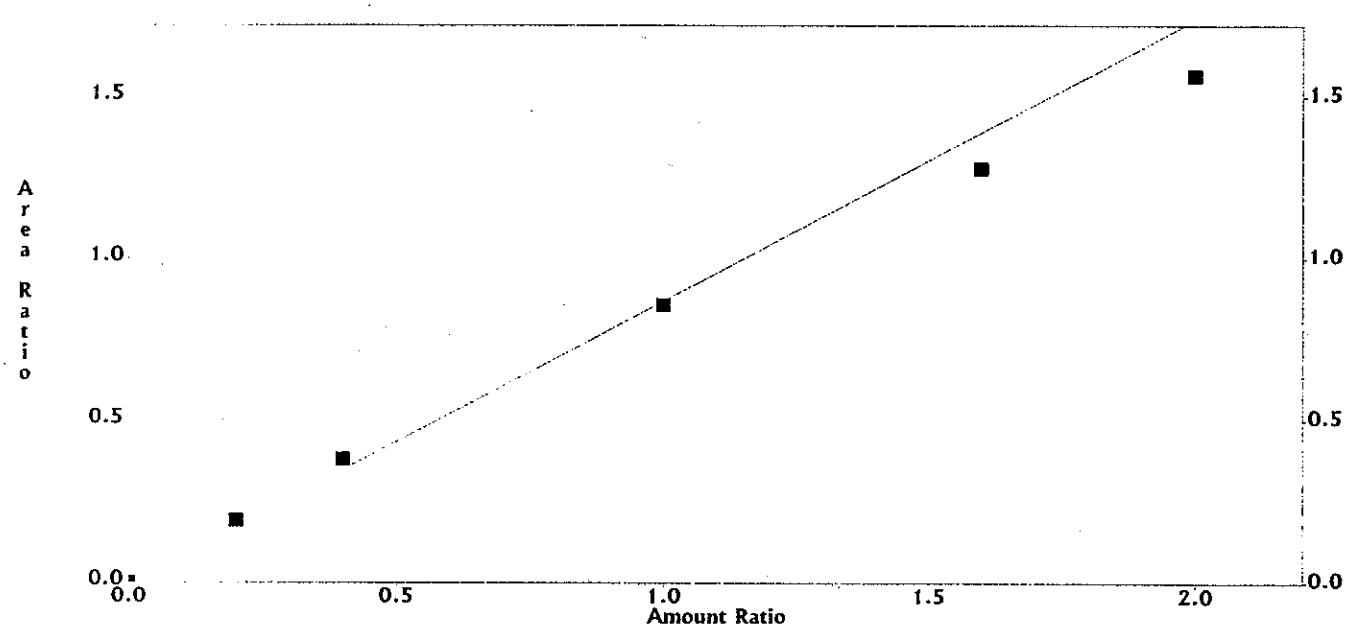
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1918	0.2	0.9589	0.1918							0
2	0.3805	0.4	0.9512	0.3805							0
3	0.8570	1	0.857	0.8570							0
4	1.2794	1.6	0.7996	1.2794							0
5	1.5664	2	0.7832	1.5664							0

Calib Flag: Replace

Average RF: 0.869976
RF StdDev: 0.0824034
RF %RSD: 9.472

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.869976

Internal Standard Curve - Scaling: None



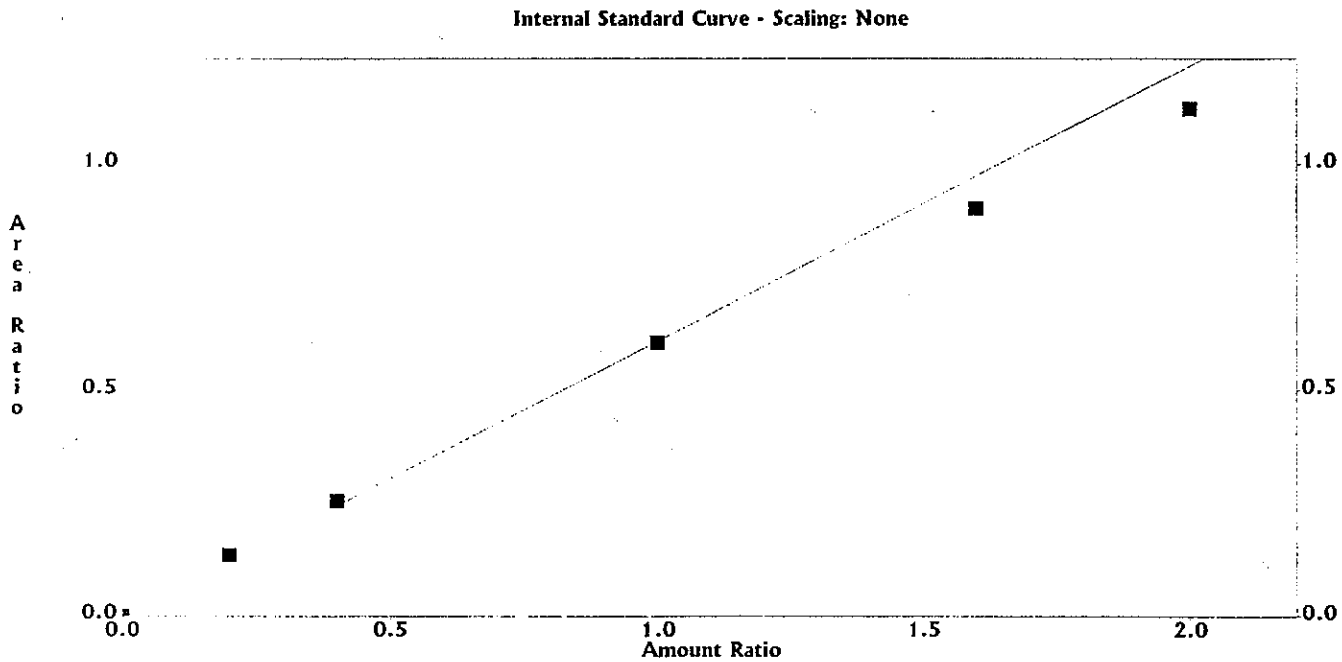
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:39
Channel : A
Peak : 20 Acifluorfen

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1353	0.2	0.6765	0.1353							0
2	0.2547	0.4	0.6369	0.2547							0
3	0.6064	1	0.6064	0.6064							0
4	0.9028	1.6	0.5642	0.9028							0
5	1.1228	2	0.5614	1.1228							0

Calib Flag: Replace

Average RF: 0.609087
RF StdDev: 0.0490202
RF %RSD: 8.048

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.609087



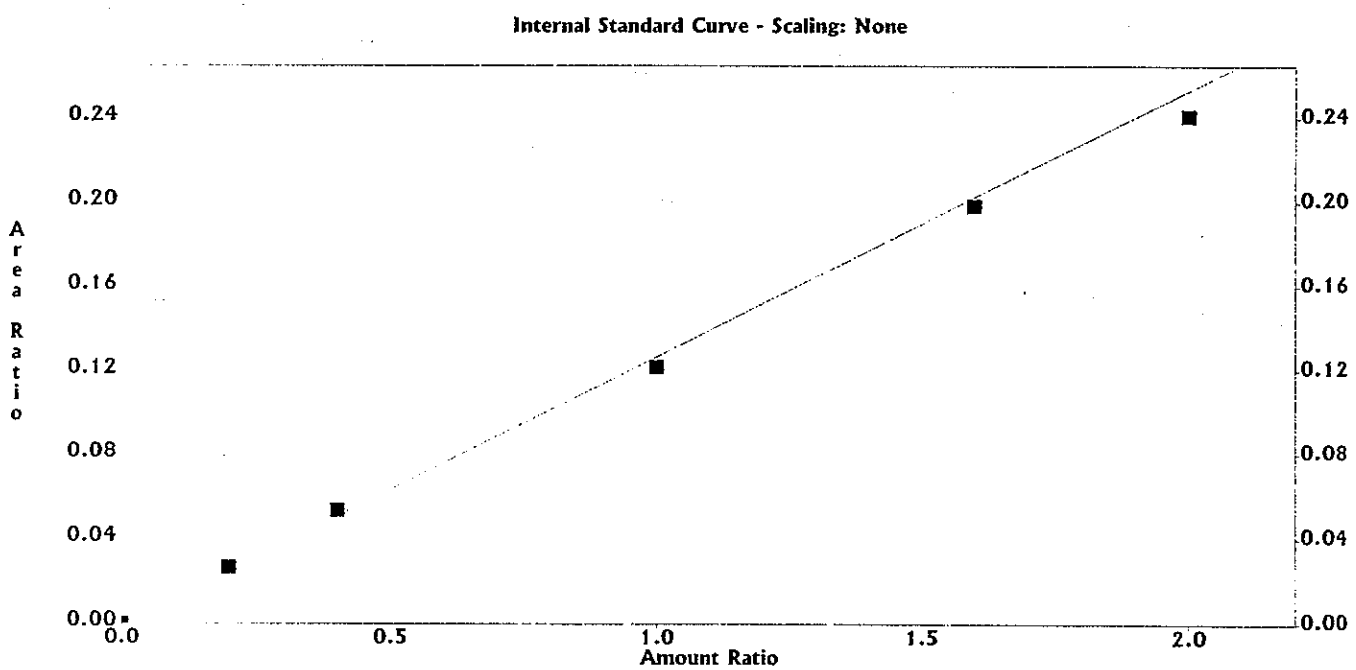
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:06
Channel : B
Peak : 1 Dalapon

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0266	0.2	0.133	0.0266							0
2	0.0537	0.4	0.1341	0.0537							0
3	0.1219	1	0.1219	0.1219							0
4	0.1985	1.6	0.1241	0.1985							0
5	0.2413	2	0.1207	0.2413							0

Calib Flag: Replace

Average RF: 0.126755
RF StdDev: 0.00633203
RF %RSD: 4.995

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.126755



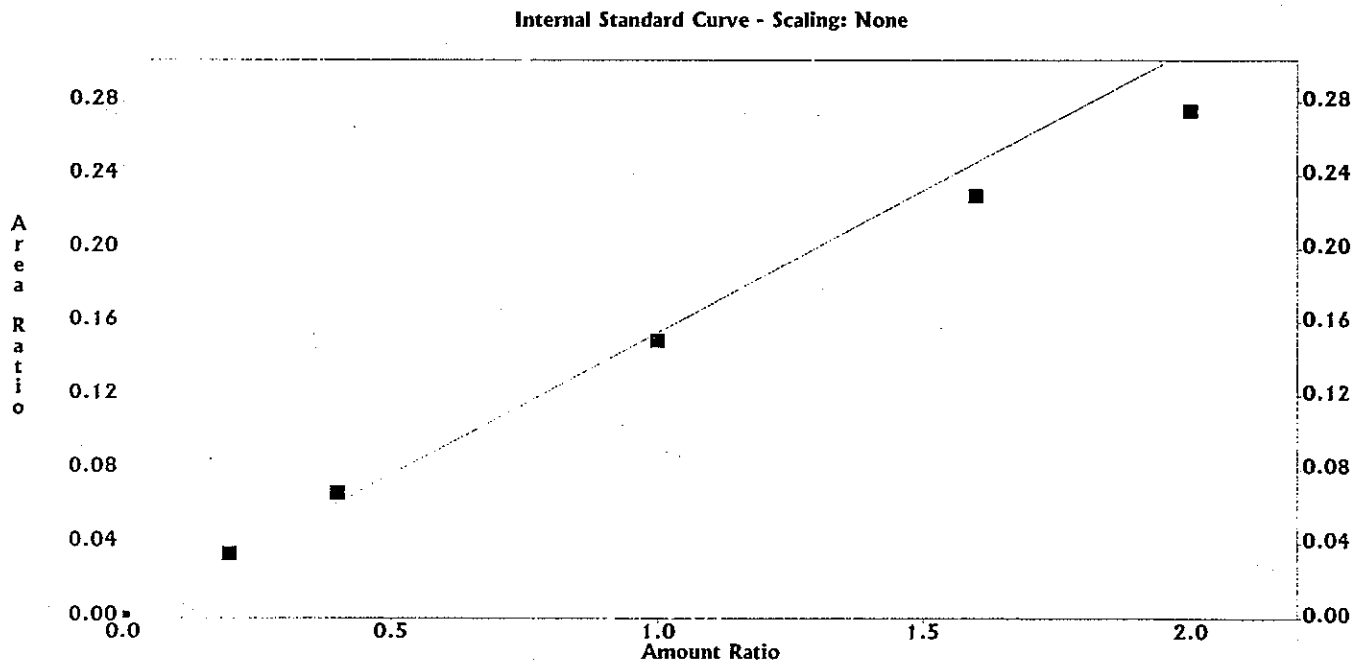
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:07
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0346	0.2	0.1729	0.0346							0
2	0.0672	0.4	0.1681	0.0672							0
3	0.1503	1	0.1503	0.1503							0
4	0.2291	1.6	0.1432	0.2291							0
5	0.2756	2	0.1378	0.2756							0

Calib Flag: Replace

Average RF: 0.154483
RF StdDev: 0.0154064
RF %RSD: 9.973

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.154483



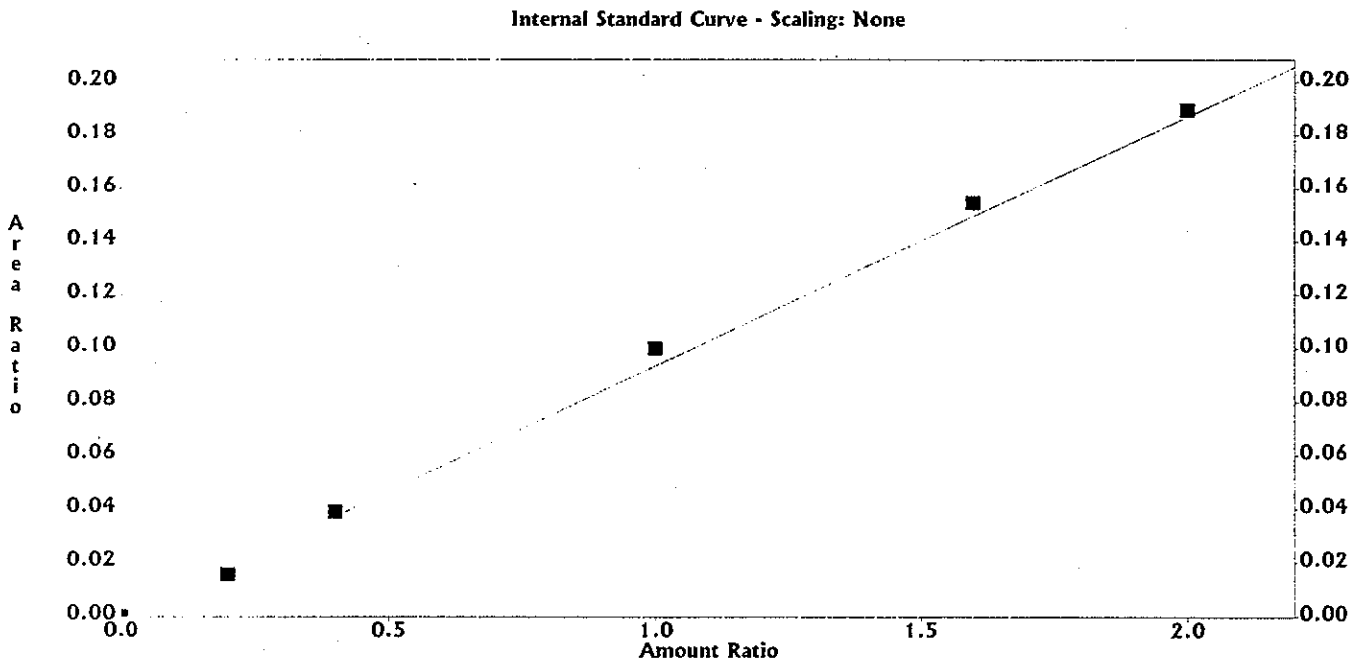
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:07
Channel : B
Peak : 3 4-Nitrophenol

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0157	0.2	0.07825	0.0157							0
2	0.0391	0.4	0.09778	0.0391							0
3	0.1001	1	0.1001	0.1001							0
4	0.1547	1.6	0.09671	0.1547							0
5	0.1897	2	0.09484	0.1897							0

Calib Flag: Replace

Average RF: 0.0935353
RF StdDev: 0.00875176
RF %RSD: 9.357

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0935353



Me[illegible]chrom\methods\8151-066.t00 * - Replicate Not Used
Pr[illegible] 9, 2004 16:18:08
Cha[illegible]
Pea[illegible] AA (surr)

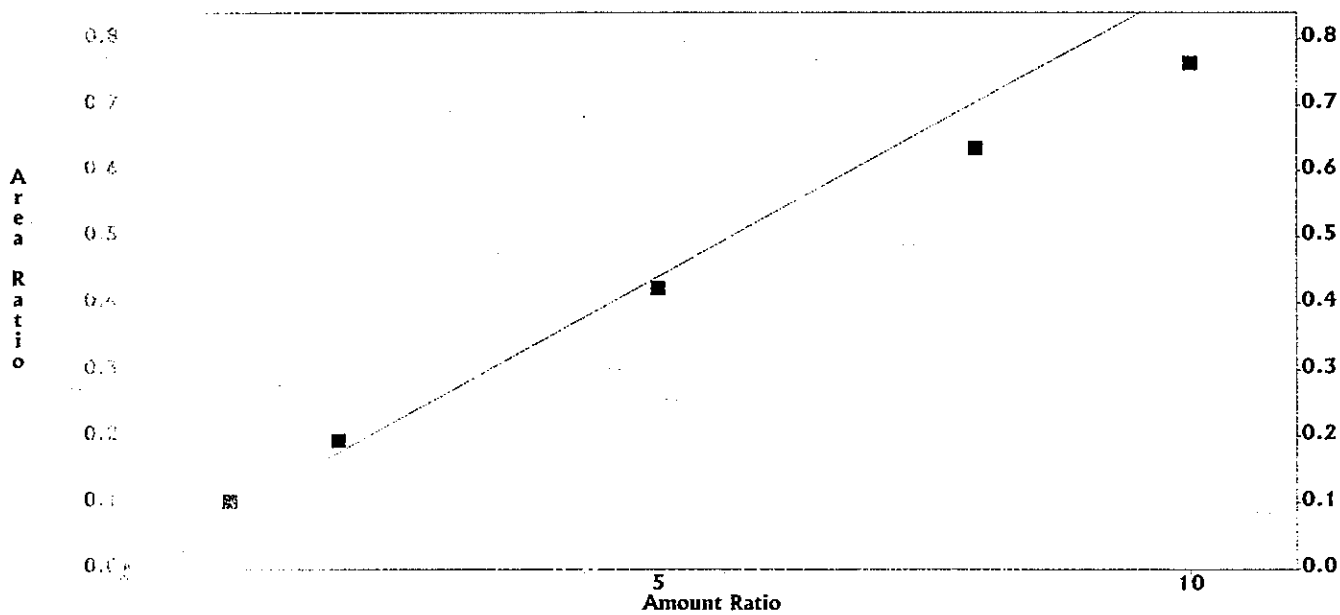
Level	[illegible]	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	[illegible]	0.1029	0.1029						0
2	[illegible]	0.0971	0.1942						0
3	[illegible]	0.08462	0.4231						0
4	[illegible]	0.0794	0.6352						0
5	[illegible]	0.07639	0.7639						0

Calib Fl [illegible]

Average [illegible]
RF StdDe[illegible]
RF %RSD: [illegible]

RF Defin[illegible] Amount
Average R[illegible] Area / 0.0880927

Internal Standard Curve - Scaling: None



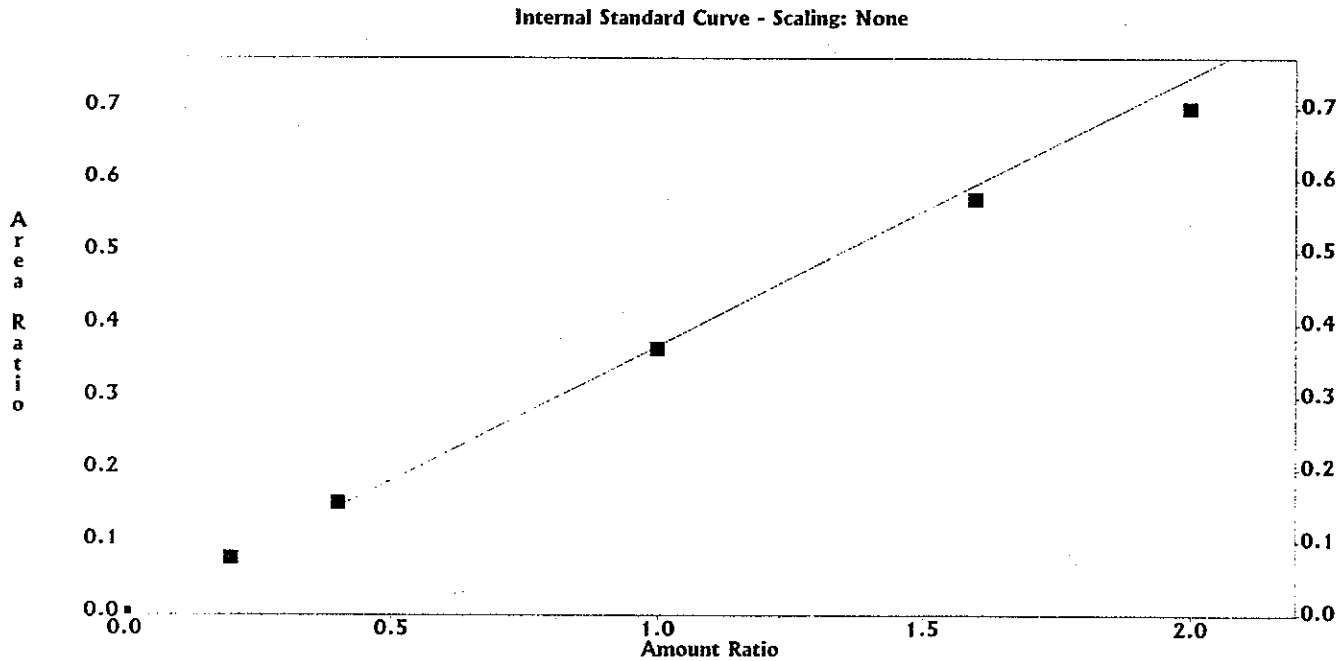
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:08
Channel : B
Peak : 5 Dicamba

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0786	0.2	0.3931	0.0786							0
2	0.1549	0.4	0.3872	0.1549							0
3	0.3684	1	0.3684	0.3684							0
4	0.5744	1.6	0.359	0.5744							0
5	0.7006	2	0.3503	0.7006							0

Calib Flag: Replace

Average RF: 0.371609
RF StdDev: 0.0182154
RF %RSD: 4.902

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.371609



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:09
Channel : B
Peak : 6 MCPP (ppm)

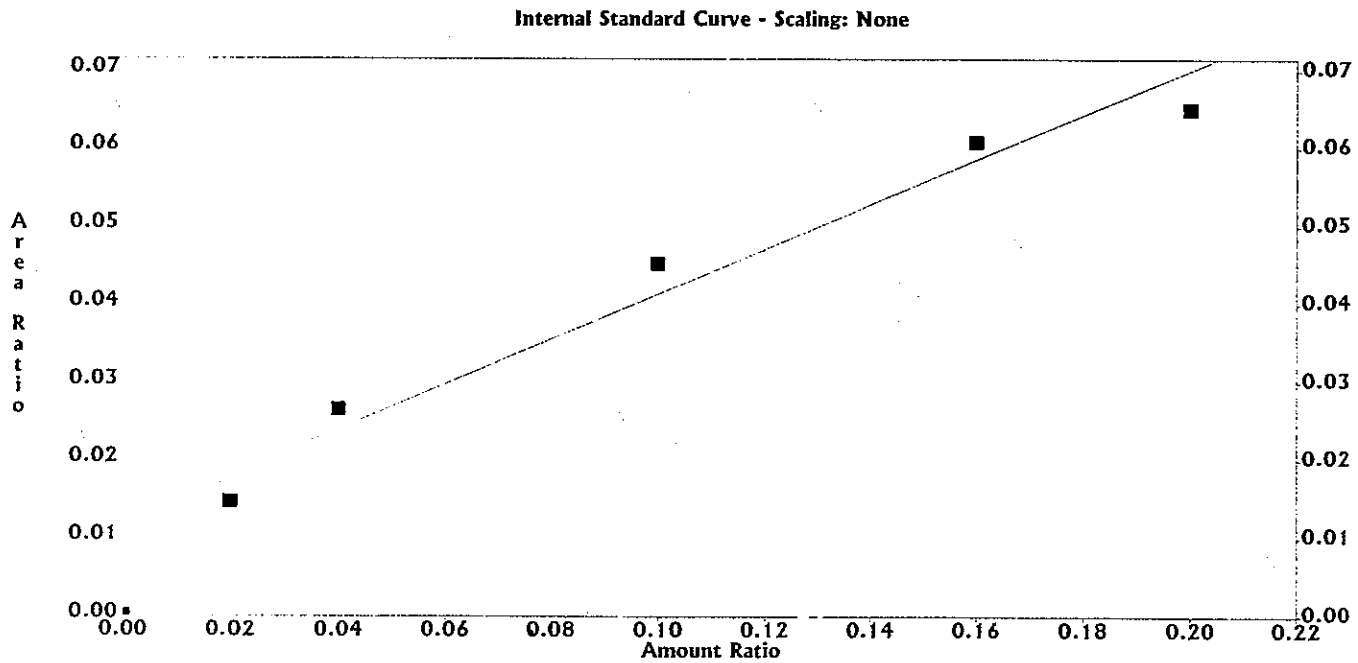
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0147	0.02	0.7329	0.0147							0
2	0.0266	0.04	0.6648	0.0266							0
3	0.0452	0.1	0.4524	0.0452							0
4	0.0608	0.16	0.38	0.0608							0
5	0.0651	0.2	0.3253	0.0651							0

Calib Flag: Replace

Average RF: 0.511087
RF StdDev: 0.17887
RF %RSD: 34.998

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 3.47761 x Area - 0.0436959
R^2 = 0.966498



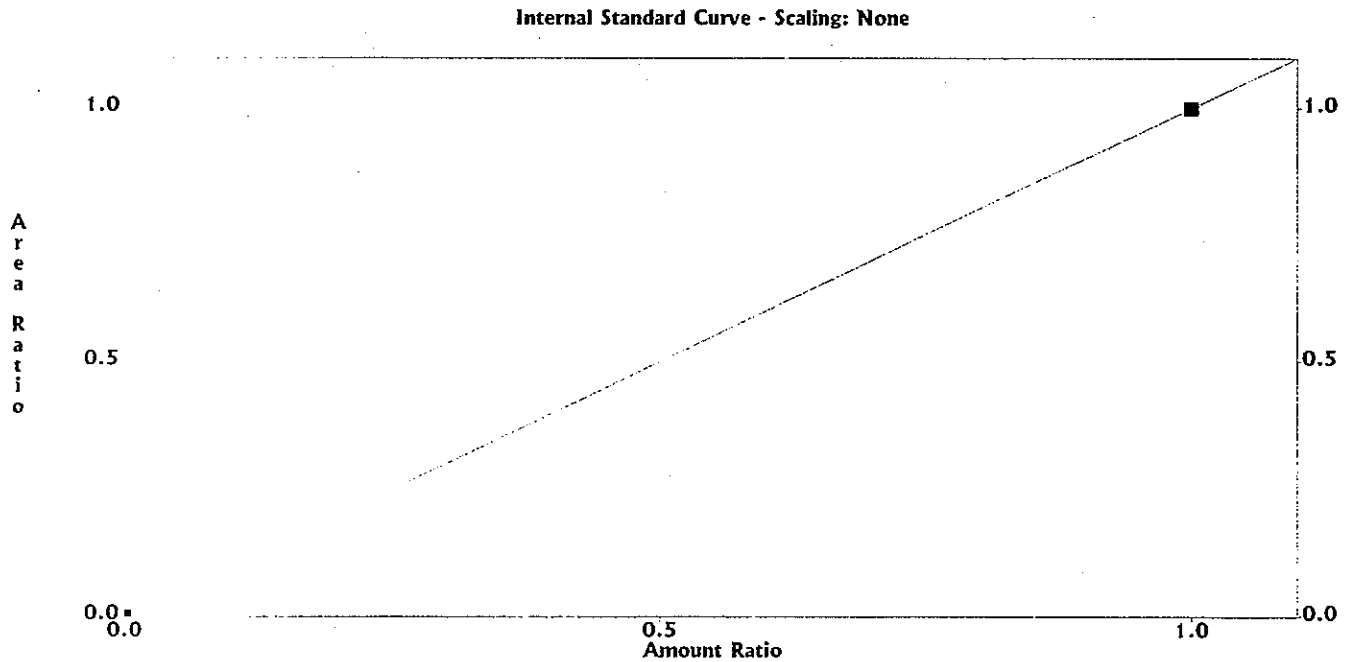
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:09
Channel : B
Peak : 7 DBOB (IS)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:10
Channel : B
Peak : 8 MCPA (ppm)

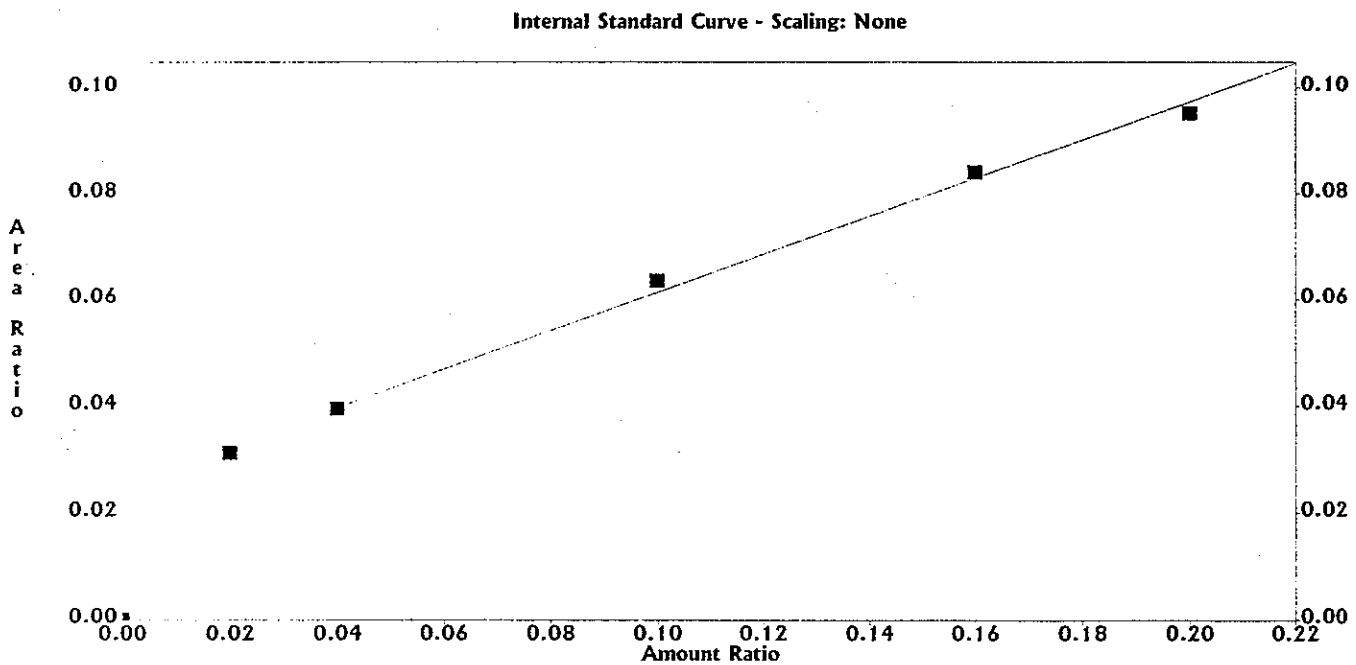
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0313	0.02	1.57	0.0313							0
2	0.0396	0.04	0.9902	0.0396							0
3	0.0635	0.1	0.6355	0.0635							0
4	0.0841	0.16	0.5258	0.0841							0
5	0.0954	0.2	0.4768	0.0954							0

Calib Flag: Replace

Average RF: 0.839008
RF StdDev: 0.453648
RF %RSD: 54.070

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.77463 x Area - 0.0702353
R^2 = 0.996153



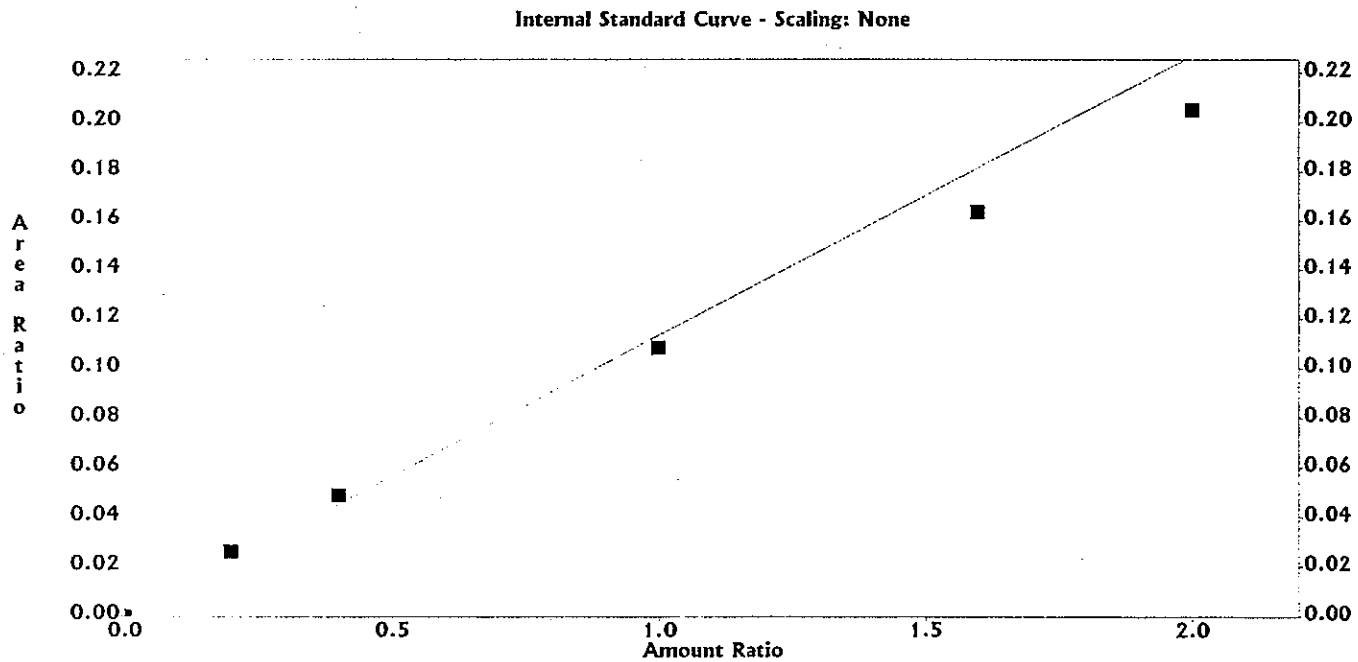
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:10
Channel : B
Peak : 9 Dichloroprop

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.2	0.1315	0.0263							0
2	0.0491	0.4	0.1228	0.0491							0
3	0.1085	1	0.1085	0.1085							0
4	0.1636	1.6	0.1023	0.1636							0
5	0.2052	2	0.1026	0.2052							0

Calib Flag: Replace

Average RF: 0.113524
RF StdDev: 0.0130642
RF %RSD: 11.508

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.113524



Me[illegible]hrom\methods\8151-066.t00 * - Replicate Not Used
Pri[illegible], 2004 16:18:10
Cha[illegible]
Pea[illegible] 2,4-D (m)

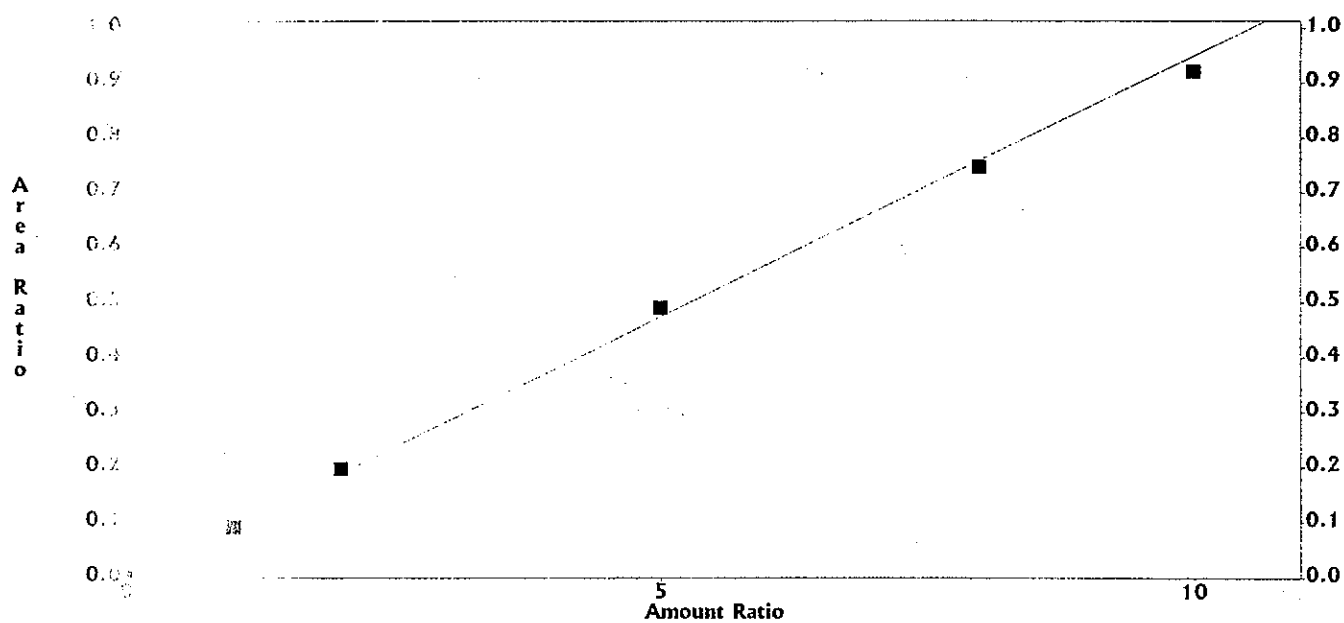
Level	Area Ratio	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	[illegible]0218	0.0922							0
2	[illegible]0891	0.1978							0
3	[illegible]0811	0.4906							0
4	[illegible]0342	0.7474							0
5	[illegible]0221	0.9221							0

Calib Fla[illegible]

Average R[illegible]
RF StdDev[illegible]
RF %RSD:[illegible]

RF Defini[illegible] Amount
Average R[illegible] Area / 0.0949667

Internal Standard Curve - Scaling: None



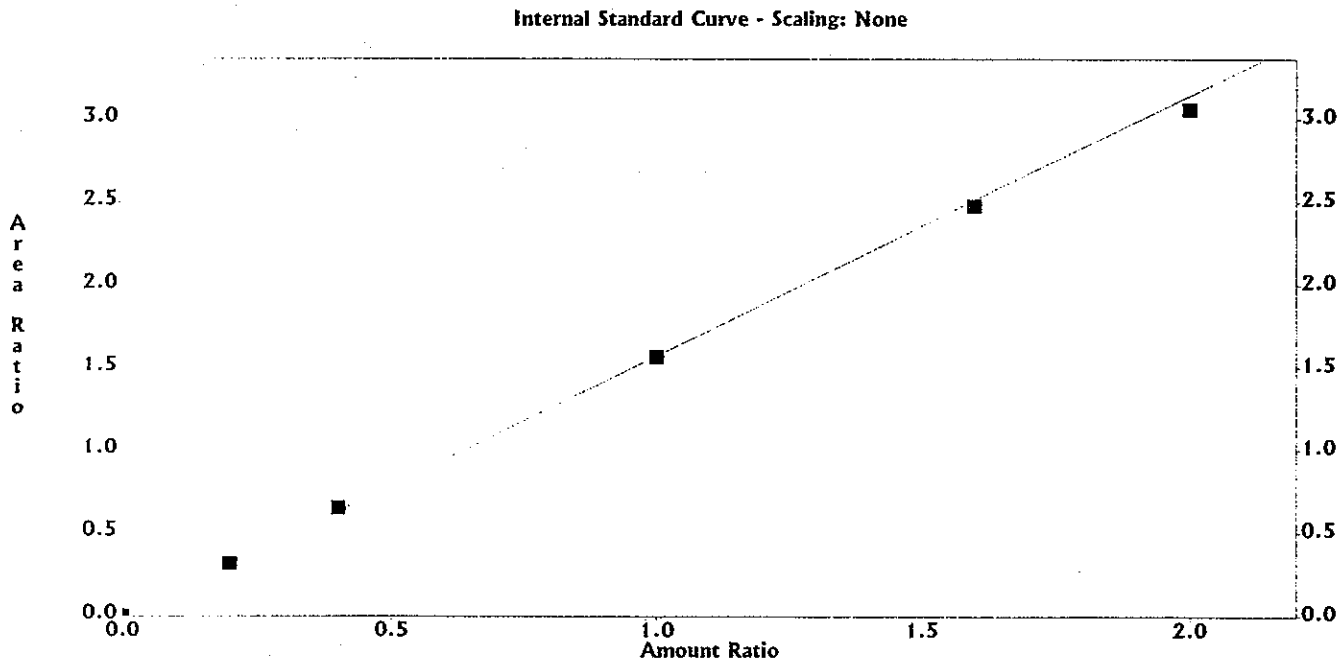
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:11
Channel : B
Peak : 11 Pentachlorphenol

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3178	0.2	1.59	0.3178							0
2	0.6516	0.4	1.63	0.6516							0
3	1.5654	1	1.57	1.5654							0
4	2.4791	1.6	1.55	2.4791							0
5	3.0630	2	1.53	3.0630							0

Calib Flag: Replace

Average RF: 1.57289
RF StdDev: 0.037824
RF %RSD: 2.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.57289



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:11
Channel : B
Peak : 12 Silvex (m)

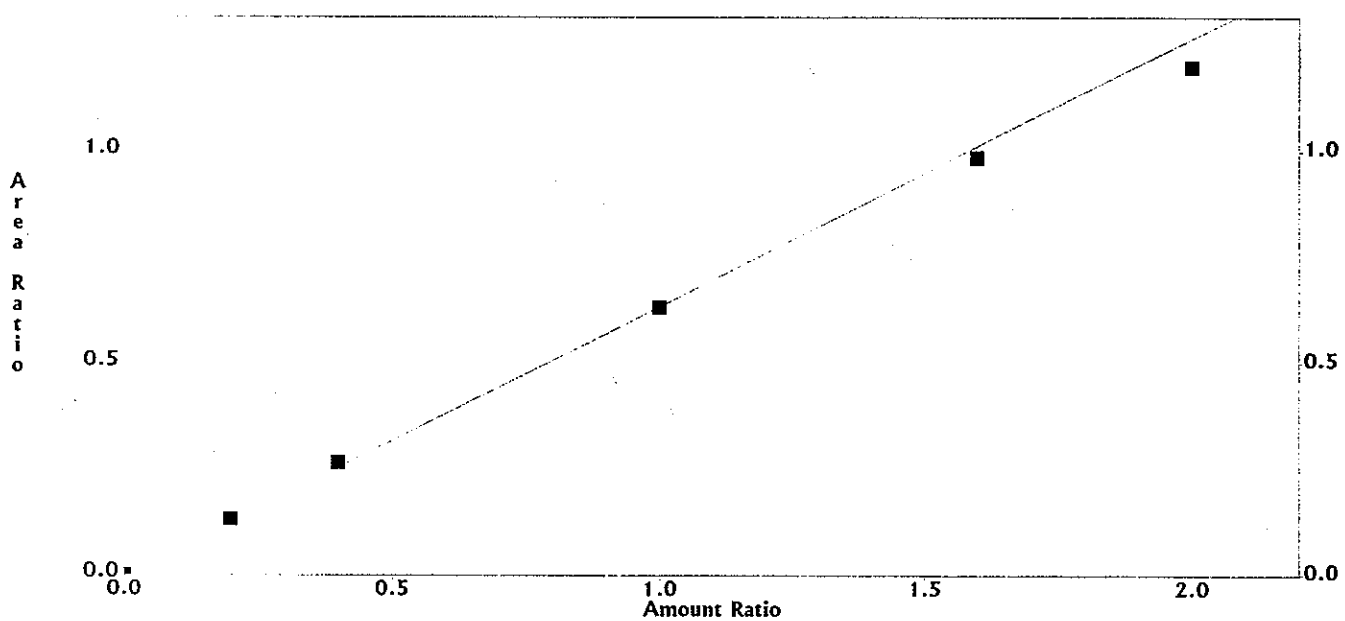
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1311	0.2	0.6555	0.1311							0
2	0.2647	0.4	0.6617	0.2647							0
3	0.6323	1	0.6323	0.6323							0
4	0.9858	1.6	0.6161	0.9858							0
5	1.1983	2	0.5991	1.1983							0

Calib Flag: Replace

Average RF: 0.632949
RF StdDev: 0.0262769
RF %RSD: 4.152

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.632949

Internal Standard Curve - Scaling: None



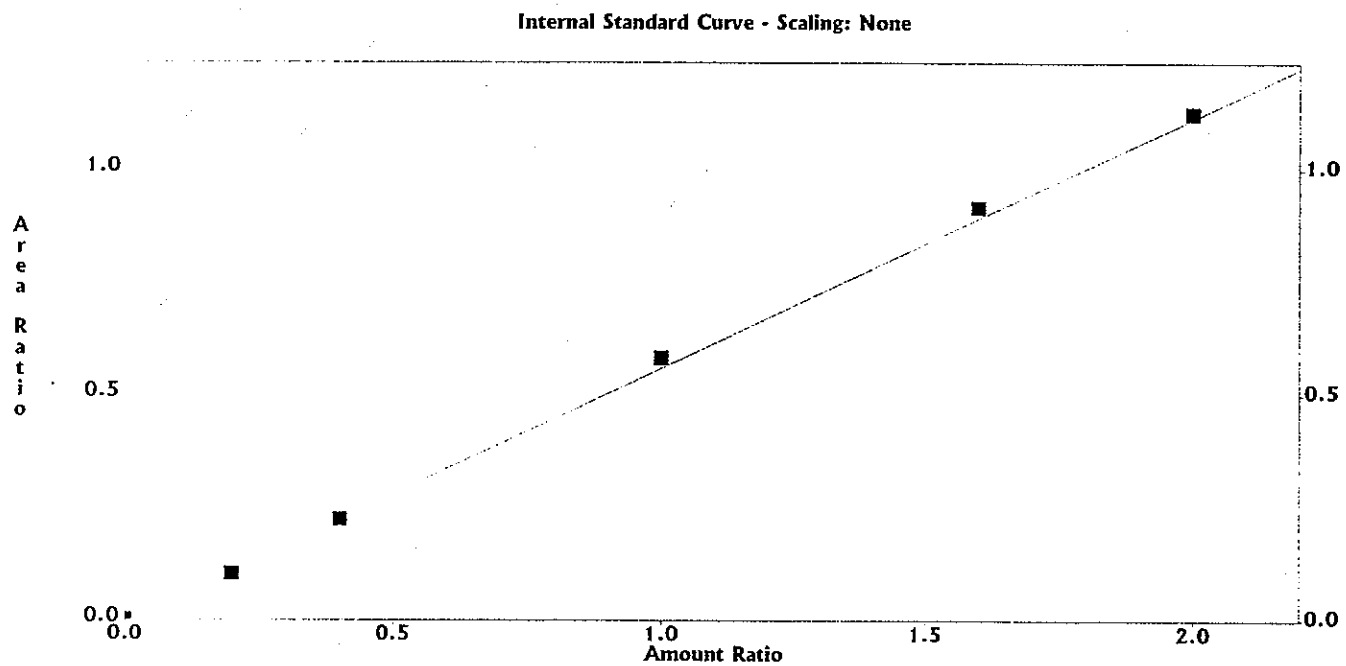
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:12
Channel : B
Peak : 13 2,4,5-T (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1028	0.2	0.5141	0.1028							0
2	0.2225	0.4	0.5562	0.2225							0
3	0.5813	1	0.5813	0.5813							0
4	0.9162	1.6	0.5727	0.9162							0
5	1.1270	2	0.5635	1.1270							0

Calib Flag: Replace

Average RF: 0.557553
RF StdDev: 0.0260813
RF %RSD: 4.678

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.557553



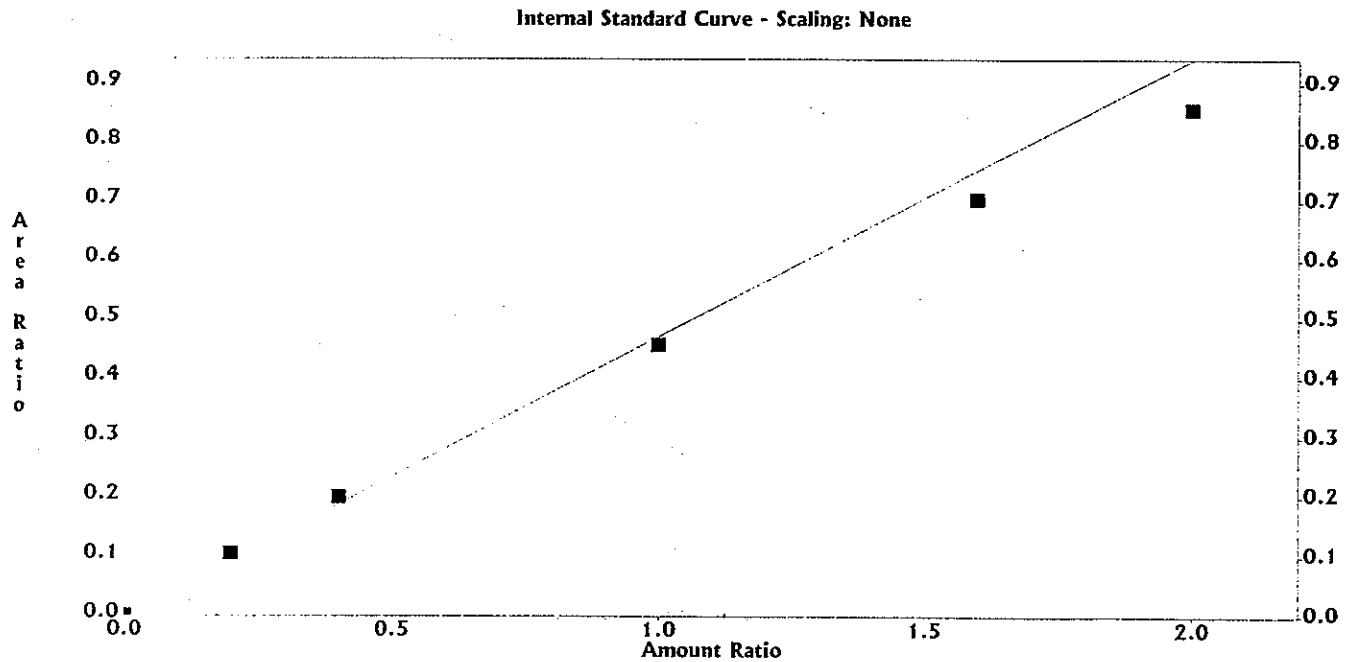
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:12
Channel : B
Peak : 14 Dinoseb

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1055	0.2	0.5275	0.1055							0
2	0.2010	0.4	0.5026	0.2010							0
3	0.4576	1	0.4576	0.4576							0
4	0.7041	1.6	0.4401	0.7041							0
5	0.8576	2	0.4288	0.8576							0

Calib Flag: Replace

Average RF: 0.471303
RF StdDev: 0.0421481
RF %RSD: 8.943

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.471303



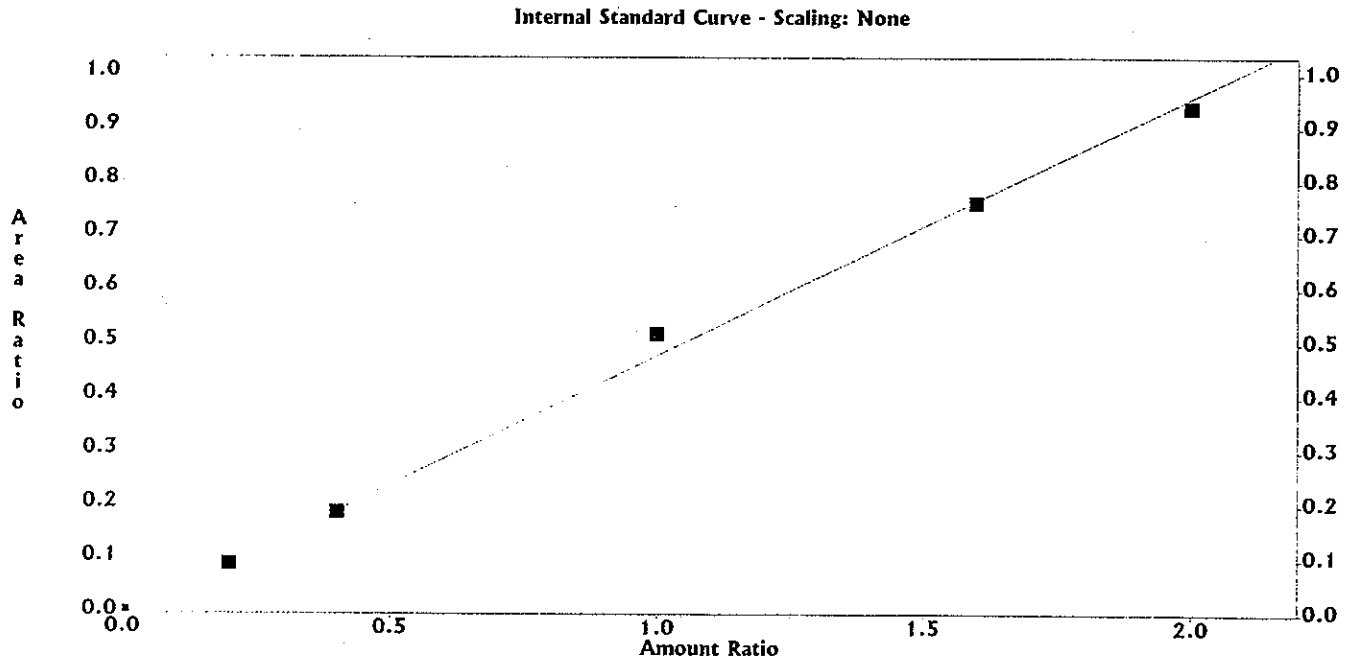
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:12
Channel : B
Peak : 15 Chloramben

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0920	0.2	0.4599	0.0920							0
2	0.1879	0.4	0.4697	0.1879							0
3	0.5181	1	0.5181	0.5181							0
4	0.7622	1.6	0.4764	0.7622							0
5	0.9395	2	0.4698	0.9395							0

Calib Flag: Replace

Average RF: 0.478771
RF StdDev: 0.0227534
RF %RSD: 4.752

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.478771



M[illegible] chrom\methods\8151-066.t00 * - Replicate Not Used
P[illegible] 09, 2004 16:18:13
Cl[illegible]
Pe[illegible] 2,4-DB

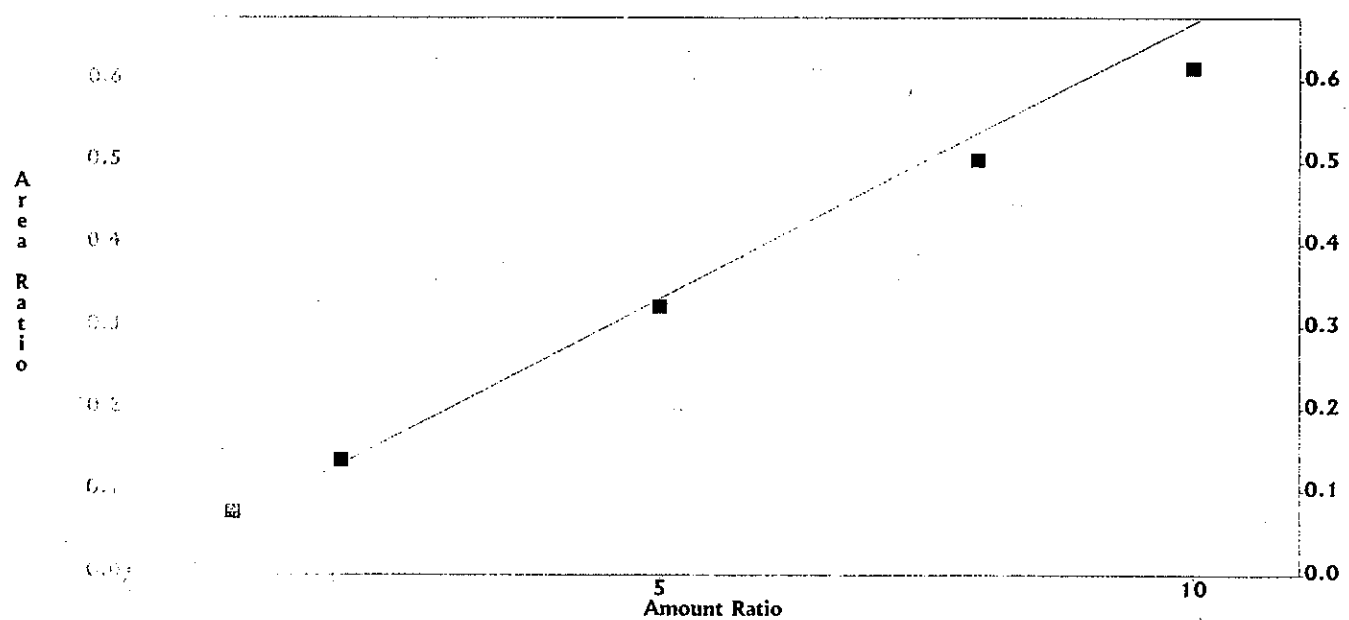
Level	[illegible]	[illegible]	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	[illegible]	[illegible]	0.0762	0.0762						0
2	[illegible]	[illegible]	0.06947	0.1389						0
3	[illegible]	[illegible]	0.06519	0.3259						0
4	[illegible]	[illegible]	0.06297	0.5038						0
5	[illegible]	[illegible]	0.06163	0.6163						0

Calib [illegible]

Average [illegible]
RF Std[illegible]
RF %RS[illegible]

RF Defi[illegible] Amount
Average [illegible] Area / 0.0670914

Internal Standard Curve - Scaling: None



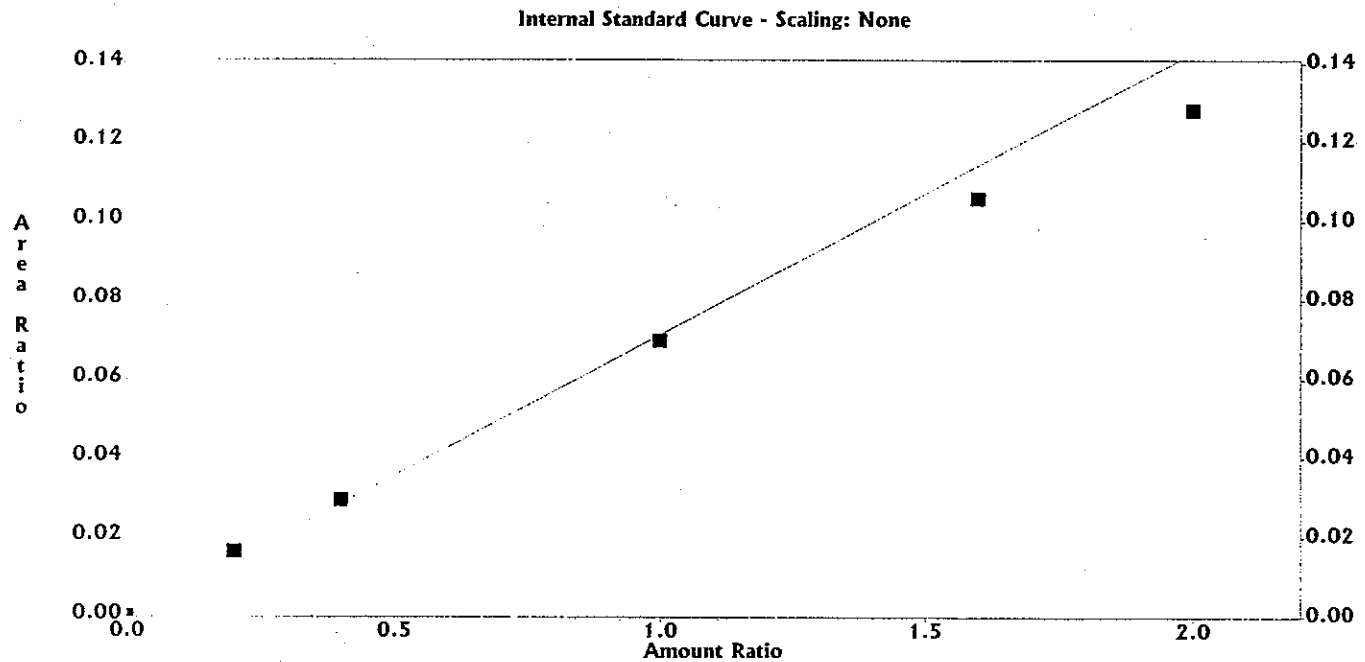
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:13
Channel : B
Peak : 17 Bentazon

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0166	0.2	0.08284	0.0166							0
2	0.0296	0.4	0.0739	0.0296							0
3	0.0699	1	0.06991	0.0699							0
4	0.1059	1.6	0.0662	0.1059							0
5	0.1282	2	0.06409	0.1282							0

Calib Flag: Replace

Average RF: 0.071389
RF StdDev: 0.00741344
RF %RSD: 10.385

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.071389



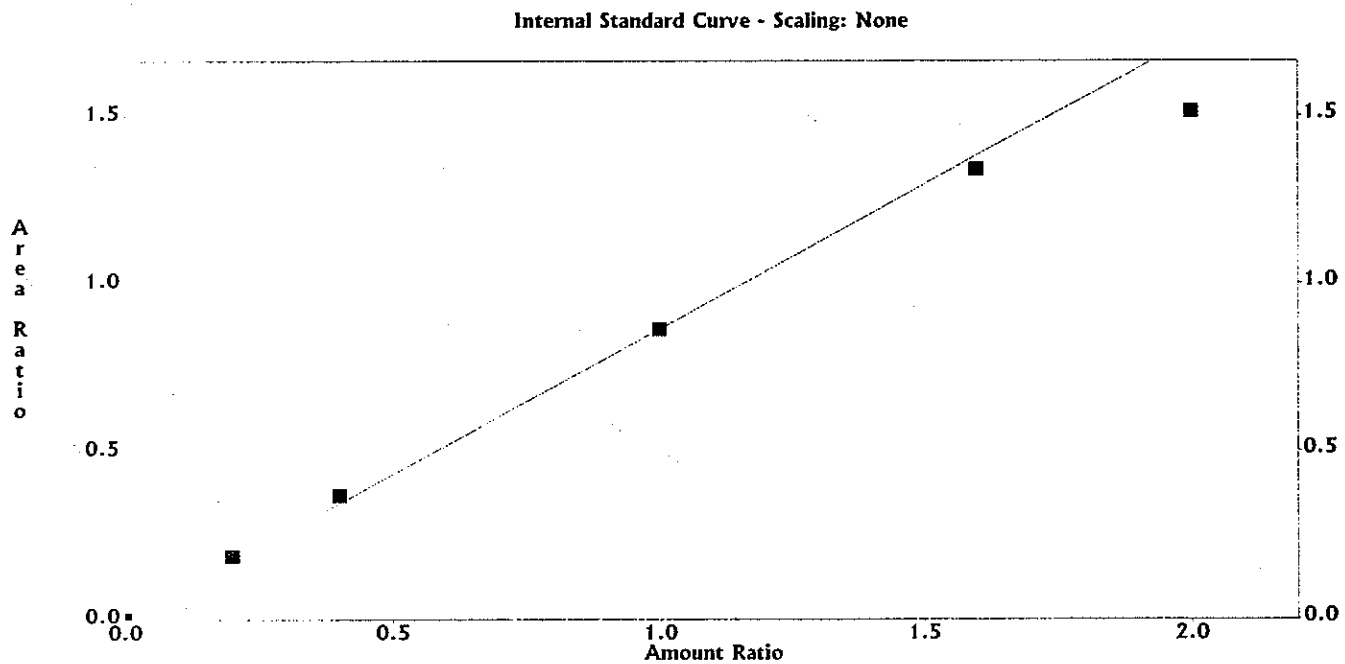
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:14
Channel : B
Peak : 18 DCPA

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1881	0.2	0.9406	0.1881							0
2	0.3687	0.4	0.9217	0.3687							0
3	0.8641	1	0.8641	0.8641							0
4	1.3426	1.6	0.8391	1.3426							0
5	1.5151	2	0.7575	1.5151							0

Calib Flag: Replace

Average RF: 0.864605
RF StdDev: 0.0727083
RF %RSD: 8.409

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.864605



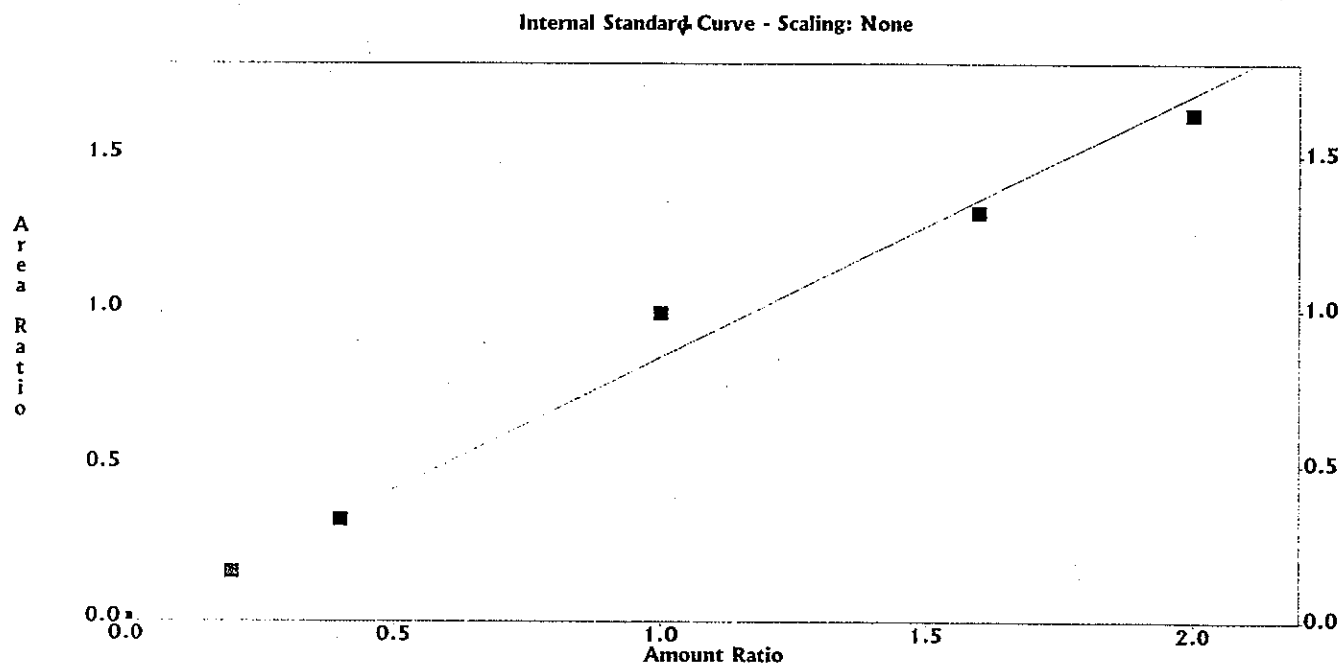
Method [illegible]chrom\methods\8151-066.t00 * - Replicate Not Used
Printed [illegible] 9, 2004 16:18:14
Channel [illegible]
Peak [illegible] Picloram

Level	Area Ratio	[illegible]	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1591	[illegible]	0.7956	0.1591							0
2	0.3282	[illegible]	0.8205	0.3282							0
3	0.9903	[illegible]	0.9903	0.9903							0
4	1.3181	[illegible]	0.8238	1.3181							0
5	1.6370	[illegible]	0.8185	1.6370							0

Calib Flag: Replace

Average RF: [illegible]
RF StdDev: [illegible]
RF %RSD: [illegible]

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.849758



Method : c:\enchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:15
Channel : B
Peak : 20 Acifluorfen

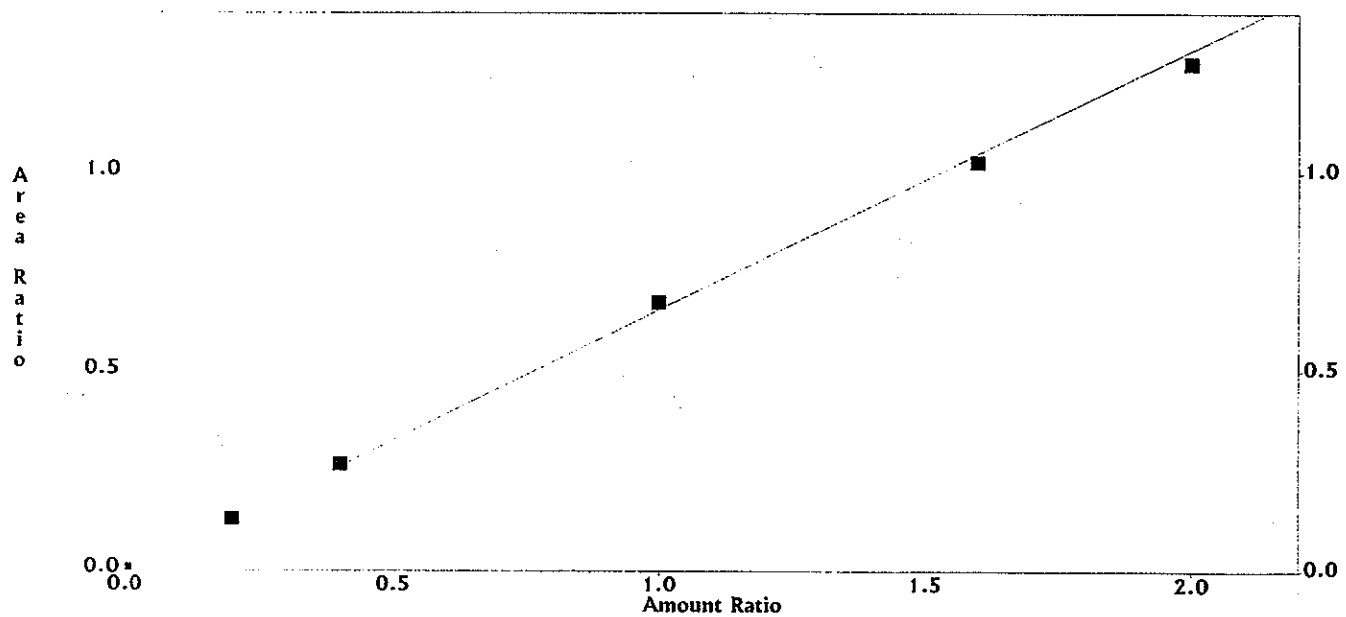
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1305	0.2	0.6523	0.1305							0
2	0.2690	0.4	0.6725	0.2690							0
3	0.6737	1	0.6737	0.6737							0
4	1.0284	1.6	0.6427	1.0284							0
5	1.2785	2	0.6393	1.2785							0

Calib Flag: Replace

Average RF: 0.656098
RF StdDev: 0.0162456
RF %RSD: 2.476

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.656098

Internal Standard Curve - Scaling: None



Method : [illegible]zchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:29
Channel : A
Peak : [illegible] MCPP(ppm)

* - Replicate Not Used

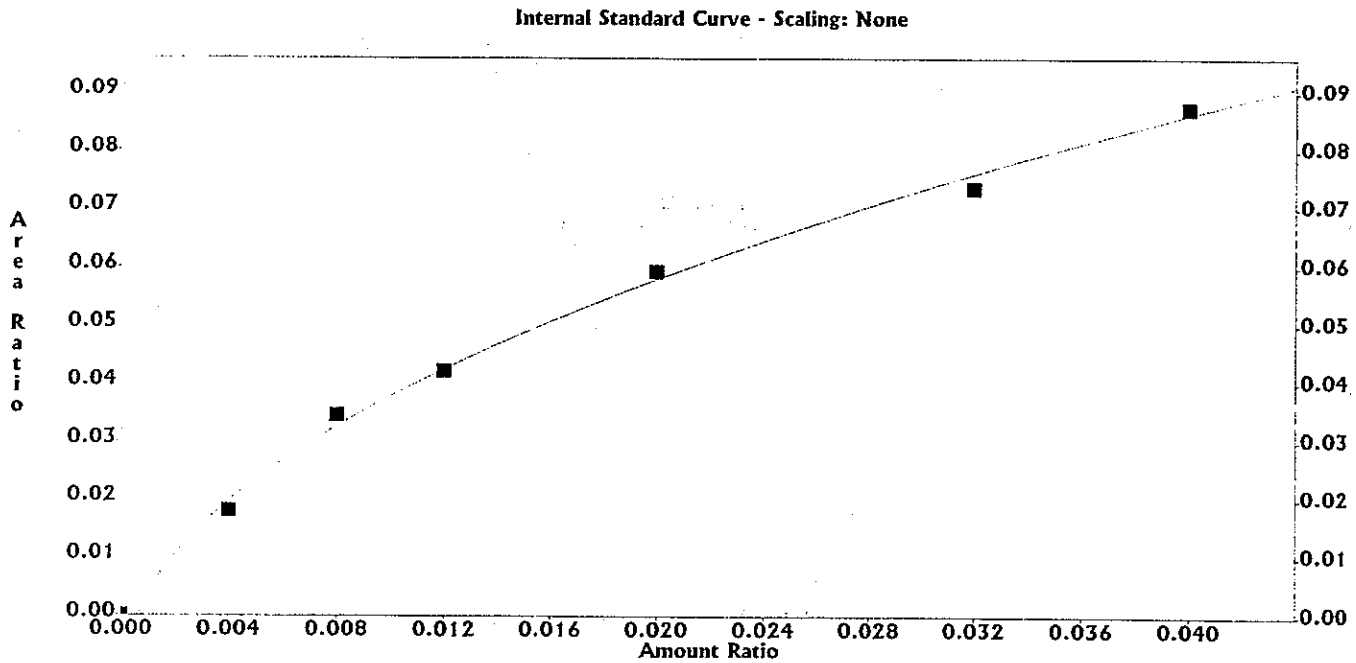
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0180	[illegible]	4.51	0.0180							0
2	0.0346	0.008	4.32	0.0346							0
3	0.0422	0.012	3.51	0.0422							0
4	0.0593	0.02	2.96	0.0593							0
5	0.0735	0.032	2.30	0.0735							0
6	0.0873	0.04	2.18	0.0873							0

Calib Flag: Replace

Average RF: 3.29747
RF StdDev: 0.990382
RF %RSD: 30.035

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Quadratic Fit: Amount = 4.30279 x Area^2 + 0.0848303 x Area + 0.000649777
R^2 = 0.994433



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 7 MCPA(PPm)

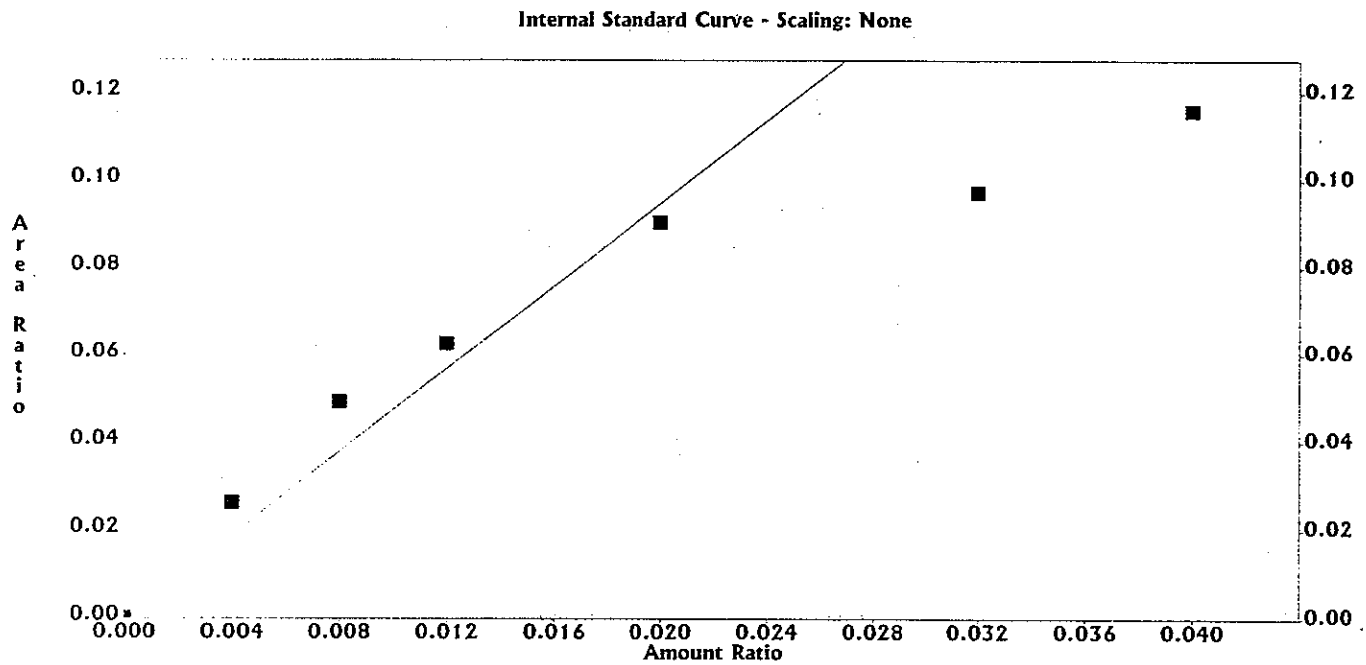
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.004	6.58	0.0263							0
2	0.0493	0.008	6.16	0.0493							0
3	0.0626	0.012	5.22	0.0626							0
4	0.0904	0.02	4.52	0.0904							0
5	0.0972	0.032	3.04	0.0972							0
6	0.1160	0.04	2.90	0.1160							0

Calib Flag: Replace

Average RF: 4.736
RF StdDev: 1.54539
RF %RSD: 32.631

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 4.736



Method : c:\ezchrom\methods\8151-066.t0a * - Replicate Not Used
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 10 DBOB (IS)

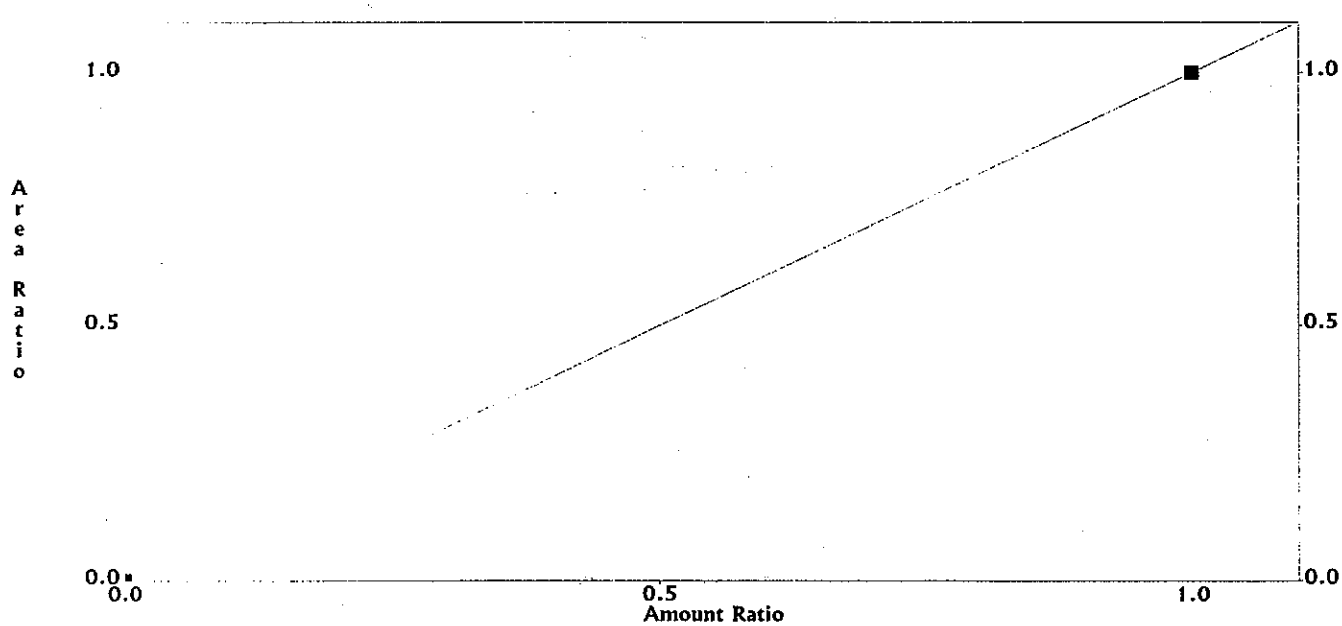
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



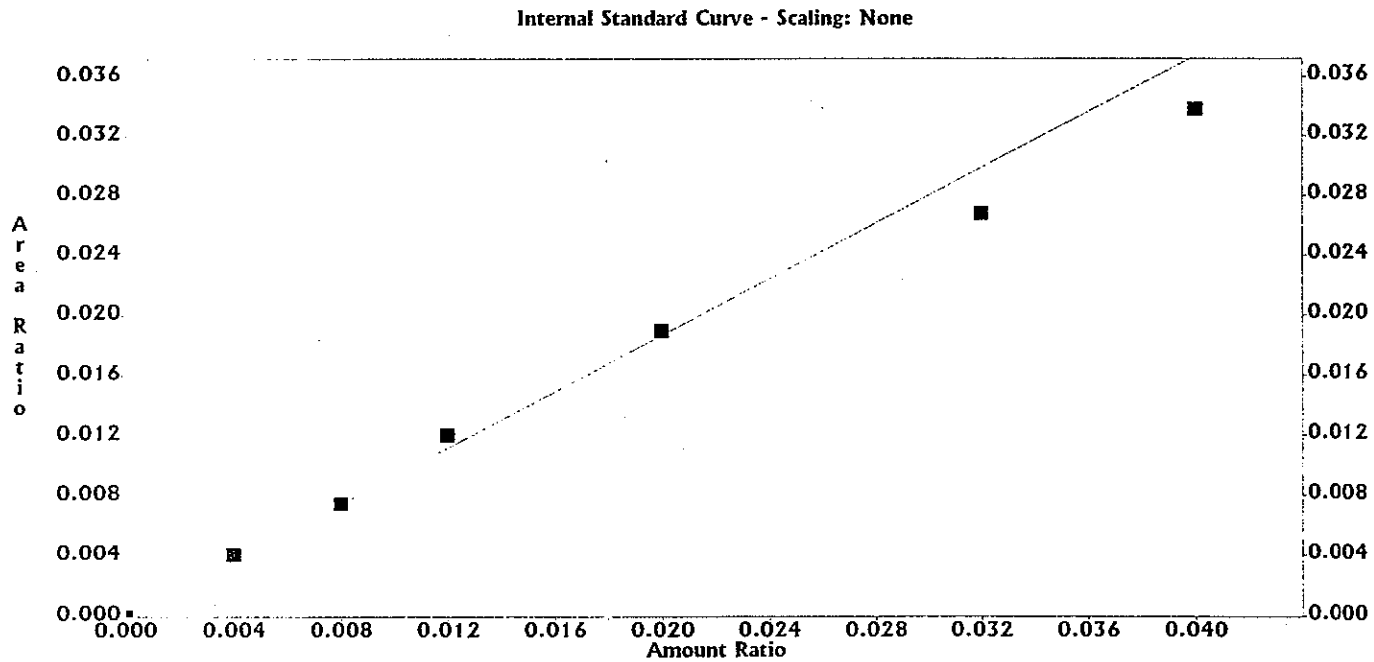
Method [illegible] chrom\methods\8151-066.t0a * - Replicate Not Used
Printed [illegible] 15, 2004 16:27:36
Channel : B
Peak : [illegible] (ppm)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	[illegible]	1.03	0.0041							0
2	0.0075	[illegible]	0.9392	0.0075							0
3	0.0121	[illegible]	1.01	0.0121							0
4	0.0190	[illegible]	0.9509	0.0190							0
5	0.0268	[illegible]	0.8386	0.0268							0
6	0.0338	[illegible]	0.8461	0.0338							0

Calib Flag: Replace

Average RF: 0.934563
RF StdDev: 0.0786280
RF %RSD: 8.413

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.934563



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:36
Channel : B
Peak : 7 DBOB (IS)

* - Replicate Not Used

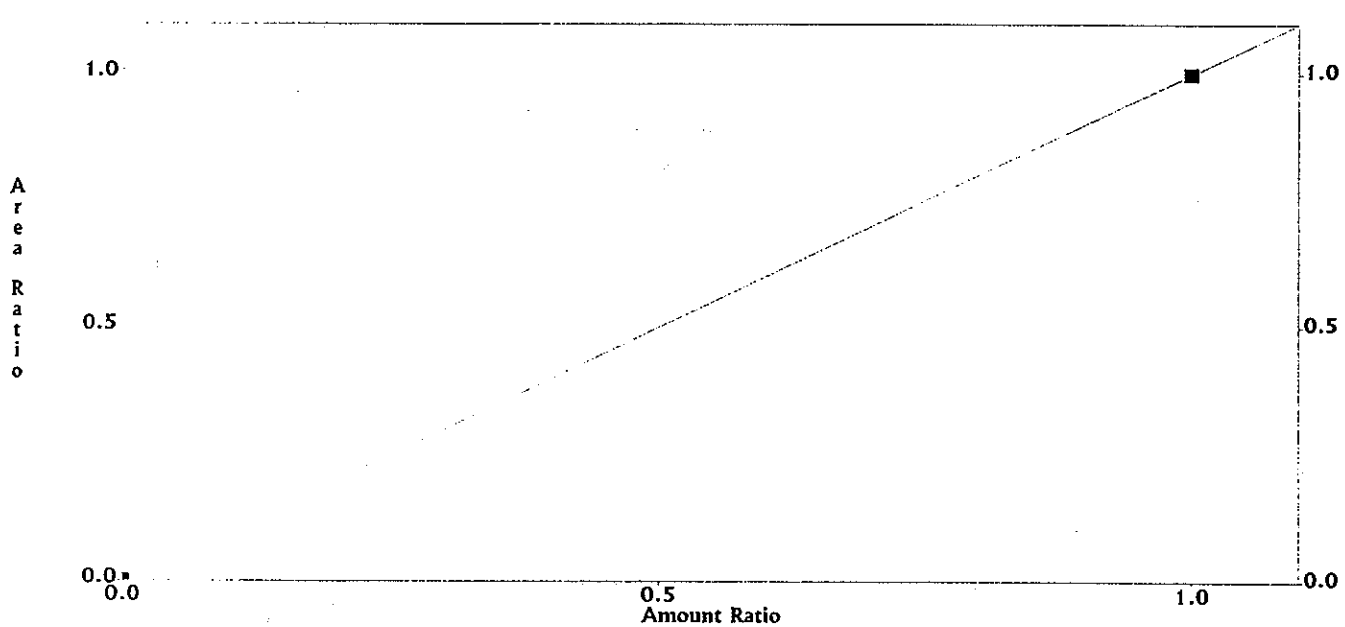
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



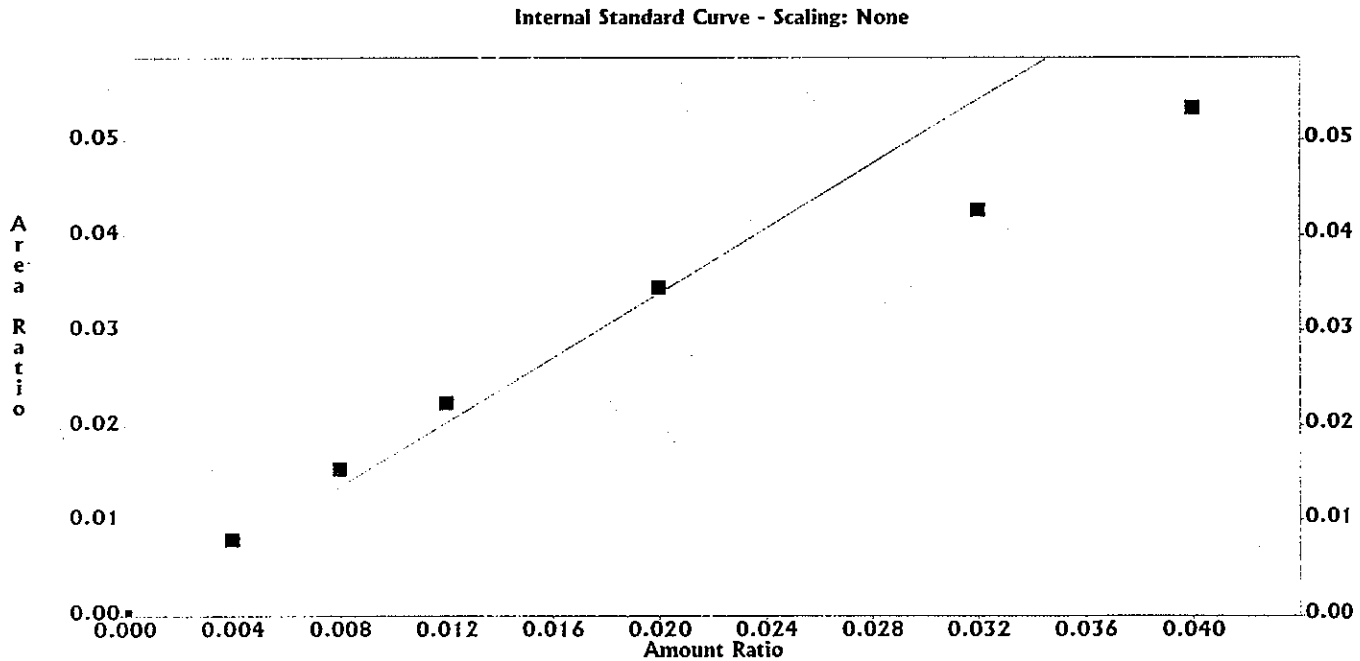
Method : c:\ezchrom\methods\8151-066.t0a * - Replicate Not Used
Printed : Dec 15, 2004 16:27:37
Channel : B
Peak : 8 MCPA (ppm)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0079	0.004	1.98	0.0079							0
2	0.0154	0.008	1.93	0.0154							0
3	0.0225	0.012	1.87	0.0225							0
4	0.0345	0.02	1.73	0.0345							0
5	0.0427	0.032	1.33	0.0427							0
6	0.0534	0.04	1.34	0.0534							0

Calib Flag: Replace

Average RF: 1.69704
RF StdDev: 0.293414
RF %RSD: 17.290

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.69704



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151t066.icv
ID: icv gc16938 -- Dec 09, 2004 01:31:38
Printed: Dec 17, 2004 10:25:03

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	249.336	0.266	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	239.278	4.289	15.000	Passed
3 4-Nitrophenol	250.000	237.037	5.185	15.000	Passed
4 DCAA(Surr)	1200.000	1191.821	0.682	15.000	Passed
5 Dicamba	250.000	243.625	2.550	15.000	Passed
6 MCPP(ppm)	25.000	31.294	25.176	15.000	Failed
7 MCPA(PPm)	25.000	30.995	23.981	15.000	Failed
8 Dichloroprop	250.000	254.240	1.696	15.000	Passed
9 2,4-D (m)	1250.000	1250.743	0.059	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	248.249	0.701	15.000	Passed
12 Silvex (m)	250.000	250.724	0.289	15.000	Passed
13 Chloramben	250.000	232.900	6.840	15.000	Passed
14 2,4,5-T (m)	250.000	259.037	3.615	15.000	Passed
15 Dinoseb	250.000	249.178	0.329	15.000	Passed
16 2,4-DB	1250.000	1321.587	5.727	15.000	Passed
17 Bentazon	250.000	268.285	7.314	15.000	Passed
18 Picloram	250.000	275.075	10.030	15.000	Passed
19 DCPA	250.000	254.120	1.648	15.000	Passed
20 Acifluorfen	250.000	244.188	2.325	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	247.140	1.144	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.628	2.149	15.000	Passed
3 4-Nitrophenol	250.000	262.012	4.805	15.000	Passed
4 DCAA (surr)	1200.000	1203.338	0.278	15.000	Passed
5 Dicamba	250.000	246.061	1.576	15.000	Passed
6 MCPP (ppm)	25.000	25.109	0.437	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	27.701	10.804	15.000	Passed
9 Dichloroprop	250.000	238.860	4.456	15.000	Passed
10 2,4-D (m)	1250.000	1259.188	0.735	15.000	Passed
11 Pentachlorphenol	250.000	245.791	1.684	15.000	Passed
12 Silvex (m)	250.000	249.018	0.393	15.000	Passed
13 2,4,5-T (m)	250.000	253.233	1.293	15.000	Passed
14 Dinoseb	250.000	236.735	5.306	15.000	Passed
15 Chloramben	250.000	249.967	0.013	15.000	Passed

16 2,4-DB	1250.000	1130.106	9.591	15.000	Passed
17 Bentazon	250.000	237.092	5.163	15.000	Passed
18 DCPA	250.000	248.066	0.774	15.000	Passed
19 Picloram	250.000	261.930	4.772	15.000	Passed
20 Acifluorfen	250.000	237.918	4.833	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151ta66.icv
ID: icv gc17096 -- Dec 08, 2004 21:27:01
Printed: Dec 17, 2004 10:25:46

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	5.948	18.953	15.000	Failed
7 MCPA(PPm)	5.000	4.779	4.414	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.611	7.778	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	5.136	2.719	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: Connie Chen

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q01
ID: ##04g4163,S gc16862 -- Dec 09, 2004 02:12:22
Printed: Dec 15, 2004 18:42:26

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	247.956	0.818	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.841	2.864	15.000	Passed
3 4-Nitrophenol	250.000	247.845	0.862	15.000	Passed
4 DCAA(Surr)	1200.000	1204.861	0.405	15.000	Passed
5 Dicamba	250.000	247.857	0.857	15.000	Passed
6 MCPP(ppm)	25.000	29.426	17.703	15.000	Failed
7 MCPA(PPm)	25.000	29.221	16.883	15.000	Failed
8 Dichloroprop	250.000	259.319	3.728	15.000	Passed
9 2,4-D (m)	1250.000	1257.523	0.602	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	249.979	0.009	15.000	Passed
12 Silvex (m)	250.000	252.384	0.954	15.000	Passed
13 Chloramben	250.000	248.947	0.421	15.000	Passed
14 2,4,5-T (m)	250.000	254.534	1.814	15.000	Passed
15 Dinoseb	250.000	254.758	1.903	15.000	Passed
16 2,4-DB	1250.000	1317.094	5.368	15.000	Passed
17 Bentazon	250.000	269.439	7.776	15.000	Passed
18 Picloram	250.000	281.146	12.459	15.000	Passed
19 DCPA	250.000	256.094	2.438	15.000	Passed
20 Acifluorfen	250.000	259.168	3.667	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	235.264	5.895	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.235	3.106	15.000	Passed
3 4-Nitrophenol	250.000	264.712	5.885	15.000	Passed
4 DCAA (surr)	1200.000	1193.182	0.568	15.000	Passed
5 Dicamba	250.000	247.077	1.169	15.000	Passed
6 MCPP (ppm)	25.000	27.129	8.517	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	26.174	4.697	15.000	Passed
9 Dichloroprop	250.000	237.706	4.918	15.000	Passed
10 2,4-D (m)	1250.000	1266.166	1.293	15.000	Passed
11 Pentachlorphenol	250.000	242.489	3.004	15.000	Passed
12 Silvex (m)	250.000	249.519	0.192	15.000	Passed
13 2,4,5-T (m)	250.000	245.531	1.788	15.000	Passed
14 Dinoseb	250.000	236.842	5.263	15.000	Passed
15 Chloramben	250.000	260.637	4.255	15.000	Passed

16 2,4-DB	1250.000	1124.503	10.040	15.000	Passed
17 Bentazon	250.000	243.494	2.602	15.000	Passed
18 DCPA	250.000	250.049	0.020	15.000	Passed
19 Picloram	250.000	285.846	14.338	15.000	Passed
20 Acifluorfen	250.000	255.996	2.398	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q02
ID: 5ppm gc17092 -- Dec 09, 2004 02:53:03
Printed: Dec 16, 2004 18:41:42

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.311	13.774	15.000	Passed
7 MCPA(PPm)	5.000	4.203	15.935	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.886	2.285	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.765	4.706	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: Connie Chen

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q03
ID: 250ppb gc16862 -- Dec 09, 2004 13:42:09
Printed: Dec 15, 2004 18:44:47

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	245.931	1.628	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	261.398	4.559	15.000	Passed
3 4-Nitrophenol	250.000	285.948	14.379	15.000	Passed
4 DCAA(Surr)	1200.000	1231.308	2.609	15.000	Passed
5 Dicamba	250.000	242.294	3.083	15.000	Passed
6 MCPP(ppm)	25.000	32.140	28.559	15.000	Failed
7 MCPA(PPm)	25.000	29.531	18.123	15.000	Failed
8 Dichloroprop	250.000	260.812	4.325	15.000	Passed
9 2,4-D (m)	1250.000	1266.289	1.303	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	251.314	0.526	15.000	Passed
12 Silvex (m)	250.000	258.438	3.375	15.000	Passed
13 Chloramben	250.000	278.197	11.279	15.000	Passed
14 2,4,5-T (m)	250.000	252.336	0.934	15.000	Passed
15 Dinoseb	250.000	249.672	0.131	15.000	Passed
16 2,4-DB	1250.000	1409.676	12.774	15.000	Passed
17 Bentazon	250.000	271.920	8.768	15.000	Passed
18 Picloram	250.000	314.345	25.738	15.000	Failed
19 DCPA	250.000	232.301	7.079	15.000	Passed
20 Acifluorfen	250.000	268.321	7.328	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	232.037	7.185	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.569	2.172	15.000	Passed
3 4-Nitrophenol	250.000	247.027	1.189	15.000	Passed
4 DCAA (surr)	1200.000	1196.299	0.308	15.000	Passed
5 Dicamba	250.000	246.172	1.531	15.000	Passed
6 MCPP (ppm)	25.000	21.782	12.872	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	24.822	0.711	15.000	Passed
9 Dichloroprop	250.000	234.445	6.222	15.000	Passed
10 2,4-D (m)	1250.000	1341.374	7.310	15.000	Passed
11 Pentachlorphenol	250.000	240.167	3.933	15.000	Passed
12 Silvex (m)	250.000	242.033	3.187	15.000	Passed
13 2,4,5-T (m)	250.000	260.253	4.101	15.000	Passed
14 Dinoseb	250.000	226.566	9.374	15.000	Passed
15 Chloramben	250.000	269.193	7.677	15.000	Passed

16 2,4-DB	1250.000	1099.475	12.042	15.000	Passed
17 Bentazon	250.000	231.729	7.308	15.000	Passed
18 DCPA	250.000	240.326	3.869	15.000	Passed
19 Picloram	250.000	286.736	14.694	15.000	Passed
20 Acifluorfen	250.000	243.221	2.712	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q04
ID: 5ppm gc17092 -- Dec 09, 2004 15:03:35
Printed: Dec 16, 2004 18:40:41

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.073	18.536	15.000	Failed
7 MCPA(PPm)	5.000	3.678	26.449	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.648	7.049	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.831	3.383	15.000	Passed

Signature _____

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation Logbook

Batch # 04G 4163 Matrix: S Target method: 8151A EXT Method: 8151A Date: 12-03-04

Solvent: Ether Lot # 031271-15; Exchange Solvent: Hexane Lot # C-1870; Analyst: LT

Lot #: Surr.: GC- Conc.: ppm Na_2SO_4: ☐ Sonicator Tune

Op. #	Sample Type	Sample ID #	Smpl Amnt (mL or g)	Surr. Vol mL	Extract sub-ID	Final Vol. mL	Dilution F=V/X	pH	Note & Anomaly
2831	MB	04G 4163-100	50.00	1.00	8151A	10.00	0.20		
2832	LCS	-101	50.01						
2833	LCSD	-J01	50.00						
2834	Sample-1	04-5546-1	50.00						
2835	MS								
2836	MSD								
2837	Sample-2	04-5566-1	50.00	1.00	8151A	10.00	0.20		
2838	Sample-3	04-5616-1	50.00						
2839	Sample-4								
2840	Sample-5								
2841	Sample-6								
2842	Sample-7								
2843	Sample-8								
2844	Sample-9								
2845	Sample-10								
2846	Sample-11								
2847	Sample-12								
2848	Sample-13								
2849	Sample-14								
2850	Sample-15								
2851	Sample-16								
2852	Sample-17								
2853	Sample-18								
2854	Sample-19								
2855	Sample-20								
2856	MTX Dup.								
2857	LCS′								
2858	LCSD′								
2859	MS′								
2860	MSD′								

12-3-04 LT

Type	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$
LCS/LCSD	2832	GC-1644	1000 × 2.5 × 1.00 /X= ppb	2833	GC-1644	1000 × 2.5 × 1.00 /X= ppb
MS/MSD		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
LCS′/LCSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
MS′/MSD′		GC-	1000 × × /X= 618		GC-	1000 × × /X= 465

Supervisor Initial _____

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Organic Sample Preparation

Extraction method: 1 3510–separate funnel; 2 3520–L-L continue extraction; 3 3550–Ultrasonic; 4 LUFT–Shaker; 5 3540–Soxhlet; 6 Solid phase Extraction; 7 Microextraction; 8 SFE; 9 Dilution; 10 Concentration; 11 Other, specify.

NEP 12/16/04 04-5546

Service ID: 0446 Batch # 04G4163 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by 14 Date 12/07/04 Surro Lot GC-16435 Conc. 20.0 ppm
LCS Lot GC-16441 Conc. 2.5 ppm MS Lot GC-16441 Conc. 2.5 ppm
Ext. solv. Ether Lot # 031271-15 Exchange solv. Hexane Lot # C-1870

Sample ID	-1101	-L01	-T01	-1				
Sample Matrix	S →							
Sample Amount, X (g/mL)	50.00	50.01	50.00	50.00				
Any TCLP, EP, WET, SPLP ?								
Surr. STD used, mL	1.00 →							
Spike STD used, mL		1.00 →						
[Extracted at pH]	<2 / >12	/	/	/	/	/	/	/
Solvent amount, mL	3x 60	x	x	x	x	x	x	x
Final volume, V, mL	10.00 →							
Extraction DF $f_e = V/X$	0.20 →							
Sub-ID of extracts	8151A →							
Anomaly Footnote† :								

Sample Cleanup

Op. by ____ Date / / (For details, see Cleanup worksheet)

Cleanup method:								
Cleanup DF, f_c								
Preparation DF, $f_1 = f_e\, f_c$								

Pre-injection*:

Op. by Connie Date 12/7/04 IS Lot : GC- ____ Conc. ____ pp

2nd dilution, f_2	(1)							
V_t, μL	(40)							
Single Extract GC, GC/MS Analysis:								
$V_2 = V_t/f_2$, μL	($40/f_2$)							
$V_{solvent} = V_t - V_2$, μL								
Double Extract GC, GC/MS Analysis:								
$V_> = \frac{1}{2}V_t/f_2$, μL	($20/f_2$)							
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL	($\frac{20}{f_2}\frac{f_<}{f_>}$)							
$V_{solvent} = V_t - V_> - V_<$								
IS volume, μL	(10)							
Final Conc. of IS	(40 ppm)							
Total $F = 2\, f_1\, f_>$ or $f_1\, f_2$	6.20 →							

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

APCL form 7-122 (old 5-110), Ver. 3.0 April 5, 1996. No pencil. Use blue pen for record. Use red pen for correction.
File: [CUST.DOC.GC]EXTRACTION.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Analysis Anomaly Record

Batch #: 046 4163 Method: 8151A Matrix: S Date: 12-07-04

Samples Involved: 5546, 5566, 5616

- **Anomaly for MS/MSD/MD**
  - ☐ 1. MS/MSD out of control limit, sample matrix interference suspected
  - ☐ 2. MS or MSD out of control limit, but $\overline{MS}$ is O.K.
  - ☐ 3. One of MS/MSD, and $\overline{MS}$ out of control limit, but not enough sample for re-analysis
  - ☒ 4. Not enough sample for MS/MSD, LCS/LCSD may be used
  - ☐ 5. Spiked samples contain high concentration of analytes (>4 × spiked concentration)
  - ☐ 6. MS/MSD out of control limit, but post spike is O.K.
  - ☐ 7. MS/MSD out of control limit, due to the heterogenous matrix
  - ☐ 8. MS/MSD out of control limit, due to the very special matrix
  - ☐ 9. Not enough sample for matrix duplicate (MD)
- **Anomaly for Holding time (HT)**
  - ☐ 10. HT has been exceeded when received, authorized by the Client to carry on with the analyses
  - ☐ 11. Extraction HT was passed, authorized by the Client to carry on with the analyses
  - ☐ 12. Analysis HT was passed, authorized by the Client to carry on with the analyses
- **Surrogates Anomaly**
  - ☐ 13. Surrogate recovery out of control limit (see Level-1 Part III), sample matrix interference suspected
  - ☐ 14. Surrogate recovery out of control limit (see Level-1 Part III), but not enough sample for re-analysis
  - ☐ 15. Surrogate recovery out of control limit, due to very special matrix
  - ☐ 16. Surrogate diluted out (for highly contaminated samples)
  - ☐ 17. Lower surrogate recovery due to cleanup process
- **Chromatogram Pattern Anomaly**
  - ☐ 18. Not a typical gasoline chromatogram pattern
  - ☐ 19. Not a typical diesel chromatogram pattern
  - ☐ 20. Not a typical diesel chromatogram pattern, but similar to heavy-oil or motor oil
  - ☐ 21. Not a typical kerosene chromatogram pattern
  - ☐ 22. Not a typical jet fuel chromatogram pattern
  - ☐ 23. Not a complete PCB chromatogram pattern, interference/degration suspected
- **Other anomaly**

Problem Description: _____

Reason: _____

Analyst: [illegible] Date: 12-07-04

Note: _____

APCL form 4-116, Ver. 2.0 July. 1, 1995 No pencil. Use blue pen for [illegible] use red pen for correction.

pplied P & Ch Laboratory
0 Magnolia Ave. Chino CA 91710
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Semi-VOC Analysis Logbook

Starting Date: 12/09/04 Time 02:12 Analyst: Connie

uence # 0494163 Datafile Path:

l. type: ☒ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study

utine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
5545			Tcal	1ppm	8151-066.~~tod~~ toa		1		8151-066.p01	V	GC17095
5546				2ppm					.p02		GC17094
5547				3ppm					.p03		GC17093
5548				5ppm					.p05		GC17096
5549				8ppm					.p08		GC17091
5550				10ppm					.p10		GC17090
5551				ICV					8151-066.ICV		GC17096
5552				50ppb	8151H-066.~~tod~~				8151-066.051		GC16860
5553				100ppb					.101		GC16861
5554				250ppb					.251		GC16862
5555				400ppb					.401		GC16863
5556				500ppb					.501		GC16864
5557				ICV					.ICV		GC1983
5558	0494163	S	CCV	4163g.901	8151H-066.~~tod~~				4163g.901		GC16863 ~~GC17093~~
5559			CCV	4163g.902	8151H-066.~~tod~~				4163g.902		GC1092
5560			MB	.K01	8151H-066.~~tod~~		0.2		.K01		
5561			LCS	.L01					.L01		
5562			LCSD	.J01					.J01		
5563				5546-01					5546.001		
5564				5566-01					5566.001		
5565				5616-01					5616.001		
5566	0494173	W	MB	4173g.K01			0.01		4173g.K01		
5567			LCS	.L01					.L01		
5568			LCSD	.J01					.J01		
5569			MS	.M01			0.00962		.M01		GC16862
5570			CCV	.q03					.q03		GC17092
5571			MSD	.q04	8151H-066.~~tod~~ toa				.q04		
5572			CCV	.n01	8151H-066.~~tod~~		0.00962		.n01		
5573			MSD	5584-01					5584.001		
5574				5584-02					5584.002		

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

FILE: [CUST.DOC.GC]GC_LOG .TEX Root-File: GC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]GC_LOG1.TEX
APCL form 7-101, Nov 29, 1999; Vet 4-2 No pencil. Use blue pen for record. Use red pen for correction.

pplied P & Ch Laboratory
0 Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Starting Date: 12/09/04 Time 02:12 Analyst: Connie

uence # 0494163 Datafile Path:

. type: ☐ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study

utine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
577	0494173	W		5584-03	8151-066.too		0.00762		5584.003	✓	
578				5587-01					5587.001		
579				5587-02					.002		
580				5587-03					.003		
581				5600-01					5600.001		
582				5600-02					.002		
583				5604-02					5604.001		
584			CCV	4163g.915					4163g.915		GC16862
585			CCV	4163g.906	8151-066.too				4163g.906		GC17092
586				5604-02	8151-066.too		0.0762		5604.~~00~~ 102		
587			CCV	4163g.917					4163g.917		GC16862
588			CCV	4163g.908	8151-066.too				4163g.908		GC17092
589	0494149	W	CCV	4163g.909	8151-066.too				4163g.909		GC16862
590			CCV	4163g.409	8151-066.too				4163g.409		GC17092
591			MB	4149g.k01	8151-066.too		0.01		4149g.k01		
592			LCS	.L01					.L01		
593			LCSD	.J01					.J01		
594				5547-01					5547.001		
595	0494117	W	MB	4117g.k01			0.01		4117g.k01		
596			LCS	.L01					.L01		
597			LCSD	.J01					.J01		
598				5515-01					5515.001		
599				5515-02					.002		
600				-03					.003		
601			CCV	4163g.910 11	8151-066.too				4163g.910 11		GC16862
602			CCV	.410	.tog				.410		GC17092
603				5523-01	8151-066.too		0.01		5523.001		
604				5523-02					5523.002		
605				5524-01					5524.001		
606	0494112	W	MB	4112g.k01					4112g.k01		

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

FILE: [CUST.DOC.GC]GC_LOG .TEX Root-File: GC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]GC_LOG1.TEX
APCL form 7-101, Nov 29, 1999; Ver 4.2 No pencil. Use blue pen for record. Use red pen for correction.

plied P & Ch Laboratory
Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Starting Date: 12/09/04 Time 02:12 Analyst: Connie

ence # 0494163 Datafile Path:

type: ☒ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study

ine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

#	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
9	0494112	W	LCS	4112g.101	8151-066-100		0.07		8151 4112g.101	✓	
10			LCSD	↓ .101					↓ .101		
11				5475-01					5475.101		
12				5451-01					5451.101		
613				5458-01					5458.101		
614			CCV	4139.922					4139.922		GC16862
615			CCV	↓ .420	8151-066-109				↓ .420		GC17092
616											
617											
618											
619											
620											
621											
622											
623											
624											
625											
626											
627											
628											
629											
630											
631											
632											
633											
634											
635											
636											
637											
638											

12-15-04

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

Level C Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

Applied P & CH Laboratories

Wet Analysis Results for Method ASTM-D2216

Client Name:	Curtis & Tompkins	Project No:	176210	Anal. Method	ASTM-D2216
Project ID:	Presidio Baker Beach 3	Service ID:	45546	Collected by:	

Component Name: Moisture
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
04-5546-1	BB3EX149[0.5]	Soil	11/22/04	11/24/04	11/29/04	04W4714	%Moisture	0.5	4.3	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 04-5546

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	04W4714	11/29/2004	04-5555-11	%moisture	18.7	20.1	7	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 04W4706 SOP: G-86
Date 11/24/04 Analyst [illegible]

Batch # 04W4714 SOP: G-86
Date 11/29/04 Analyst [illegible]

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%
Smpl-1	5553-1	21.16	44.13	32.97	8.94	Smpl-1	5423-2	20.96	37.46	33.17	21.00
Smpl-2	2	22.97	32.61	30.64	20.44	Smpl-2	5555-1	22.82	41.20	38.43	15.07
Smpl-3	3	21.88	35.28	33.02	16.87	Smpl-3	2	21.89	48.13	47.41	4.20
Smpl-4						Smpl-4	3	21.16	44.01	42.12	8.27
Smpl-5						Smpl-5	4	22.28	45.69	43.69	8.54
Smpl-6						Smpl-6	5	21.21	42.44	40.81	7.68
Smpl-7						Smpl-7	6	22.99	43.64	40.91	13.22
Smpl-8						Smpl-8	7	22.57	52.72	47.16	5.17
Smpl-9						Smpl-9	8	21.15	47.41	44.81	10.04
Smpl-10						Smpl-10	9	22.03	48.72	47.18	4.27
Smpl-11						Smpl-11	10	20.93	44.45	42.39	8.76
Smpl-12						Smpl-12	11	22.36	47.47	42.77	18.72
Smpl-13		11/29/04				Smpl-13	12	22.81	48.79	47.68	4.27
Smpl-14						Smpl-14	13	21.42	48.31	44.81	13.15
Smpl-15						Smpl-15	14	23.01	53.05	52.70	7.34
Smpl-16						Smpl-16	15	22.36	50.21	48.53	6.03
Smpl-17						Smpl-17	16	23.65	42.92	40.94	10.28
Smpl-18						Smpl-18	5546-1	23.03	48.88	47.76	4.33
Smpl-19						Smpl-19	5551-1	22.35	47.79	45.21	10.04
Smpl-20						Smpl-20	2	22.38	41.09	36.91	22.34
Mtl	3	22.38	31.24	29.96	14.45	Mtl	5555-1	22.77	42.24	38.32	20.13

Footnote/Anomaly:

APCL form 5-163 Ver. 1.1 Apr. 22, 1996 No pencil. Use blue pen for record. Use red pen for correction.
File: [CUST.DOC.WET]MOIS.TEX Root-File: MOIS_ROOT.TEX 1-Page-File: MOIS1.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Balance Daily Calibration Worksheet

Weight Set S/N: 96-J087037-9475
~~Weight Set S/N: 12006~~

Calib. Date	Lab Balance Balance #	Lab Balance 1 g ±0.05g	Lab Balance 10 g ±0.1g	Lab Balance 200 g ±0.5g	Lab Balance Note (C)	Digital Balance Balance #	Digital Balance 1 g ±0.02g	Digital Balance 10 g ±0.05g	Digital Balance 200 g ±0.10g	Digital Balance Note (D) (C) (AR)	Analytical Balance Balance #	Analytical Balance 1 g ±0.0002g	Analytical Balance 10 g ±0.0005g	Analytical Balance 200 g ±0.0010g	Analytical Balance Note (D) (C) (AR)	Calib. by
11/29/04	~~A-01~~	not	in	use		B-01	0.99	10.00	199.99	✓✓✓	C-01	1.0000	10.0000	200.0000	✓✓✓	Yz
	A-02					B-02	1.00	10.01	200.02	✓✓✓	C-02	0.9999	9.9999	199.9997	✓✓✓	
	A-03					B-03	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-06	0.99	9.98	199.97	✓✓✓	C-					
	A-		11/29/04			B-07	1.00	10.00	200.00	✓✓✓	C-		11/29/04			
	A-					B-		11/29/04			C-					
11/30/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	Yz
	A-02					B-02	1.00	10.01	200.00	✓✓✓	C-02	0.9999	9.9998	199.9997	✓✓✓	
	A-03					B-03	1.00	9.99	199.98	✓✓✓	C-					
	A-04					B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-		11/30/04			B-07	1.00	10.00	200.00	✓✓✓	C-		11/30/04			
	A-					B-		11/30/04			C-					
12/1/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	Yz
	A-02					B-02	0.99	10.01	200.00	✓✓✓	C-02	0.9999	9.9998	199.9997	✓✓✓	
	A-03					B-03	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-06	1.00	9.99	199.98	✓✓✓	C-					
	A-		12/1/04			B-07	1.00	10.00	200.00	✓✓✓	C-		12/1/04			
	A-					B-		12/1/04			C-					
12/2/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	Yz
	A-02					B-02	0.99	10.01	200.00	✓✓✓	C-02	0.9999	9.9998	199.9997	✓✓✓	
	A-03					B-03	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-06	1.00	9.99	199.99	✓✓✓	C-					
	A-		12/2/04			B-07	1.00	10.01	200.00	✓✓✓	C-		12/2/04			
	A-					B-		12/2/04			C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

628

Curtis & Tompkins, Ltd.

MOISTURE DATA

Percent Moisture Summary Report

Batch: 96840
Date: 11/24/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176205-001	15.2356	22.1490	20.9699	83	17
176205-002	15.3627	22.2886	21.1299	83	17
176205-003	15.5056	22.3253	21.1392	83	17
176205-004	15.3217	22.1260	21.2996	88	12
176205-005	15.4900	22.2743	21.2823	85	15
176205-006	15.2072	22.3546	21.3987	87	13
176210-001	15.4015	22.3310	22.1814	98	2
176210-002	15.3059	22.0792	21.7601	95	5
176210-003	15.1528	22.4897	22.3190	98	2
176210-004	15.2261	22.3330	22.0610	96	4
176210-005	15.4687	22.3882	21.9067	93	7
176210-006	15.4720	22.0981	21.7447	95	5
176210-007	15.3267	22.2744	21.9941	96	4
176210-008	15.0584	22.3828	22.0651	96	4
176210-009	15.2413	22.7440	22.2786	94	6
176210-010	15.4667	22.9221	22.4942	94	6
176210-011	15.2959	22.2755	21.7478	92	8
QC273690	14.8750	22.3825	22.2187	98	2
of 176210-001			RPD:	0.0%	1.1%

11/23/04

96840

Sample		B.L.	Dish #	Tared wt.	Init. wt.	Fin. wt.	Comments
Blank		/	71	15.1204	—	15.1205	
176210-	1	A	32	15.4015	22.3310	22.1814	
DMR			T	14.8750	22.3825	22.2187	
	2		20	15.3059	22.0792	21.7601	
	3		M2	15.1528	22.4897	22.3190	
	4		26	15.2261	22.3330	22.0610	
	5		42	15.4687	22.3882	21.9067	
	6		HDEL	15.4720	22.0981	21.7247	
	7		7B	15.3267	22.2744	21.9941	
	8		F	15.0584	22.3828	22.0651	
	9		DD	15.2413	22.7440	22.2786	
	10		8	15.4667	22.9221	22.4942	
	11		000	15.2959	22.2755	21.7478	
176205-	1	A	31	15.2356	22.1490	20.9699	
	2	A	M1	15.3627	22.2886	21.1299	
	3	A	11	15.5056	22.3253	21.1392	
	4	A	53	15.3217	22.1260	21.2996	
	5	B	38	15.4900	22.2743	21.2823	
	6	A	55A	15.2072	22.3546	21.3987	

OVEN TEMP: 103°C
TIME IN: 2:45 P.M.
TIME OUT: 8:20 A.M. ON: 11-24-04

Continued on Page /

Read and Understood By

Signed: Z. Mannel Date: 11-23-04 Signed: [illegible] Date: 11/24/04

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 96840
Date Started: 23-NOV-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176205-001		URS Corporation	Soil	MOISTURE	24-NOV-2004
176205-002		URS Corporation	Soil	MOISTURE	24-NOV-2004
176205-003		URS Corporation	Soil	MOISTURE	24-NOV-2004
176205-004		URS Corporation	Soil	MOISTURE	24-NOV-2004
176205-005		URS Corporation	Soil	MOISTURE	24-NOV-2004
176205-006		URS Corporation	Soil	MOISTURE	24-NOV-2004
176210-001		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-002		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-003		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-004		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-005		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-006		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-007		Treadwell & Rollo	Soil	MOISTURE	01-DEC-2004
176210-008		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-009		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-010		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
176210-011		Treadwell & Rollo	Soil	MOISTURE	24-NOV-2004
QC273690	SDUP of 176210-001		Soil	MOISTURE	

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 /

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RSM				
103°C	11-2-04	RSM				
105°C	11-3-04	RSM				
104°C	11-4-04	RSM				
105°C	11-5-04	RSM				
103°C	11-8-04	RSM				
104	~~11-9-04~~	RSM				
105°C	11-10-04	RSM				
105°C	11-11-04	RSM				
105°C	11-12-04	RSM				
105°C	11-15-04	RSM				
105°C	11-16-04	RSM				
105°C	11-17-04	RSM				
104°C	11-18-04	RSM				
104°C	11-19-04	RSM				
103°C	11-22-04	RSM				
103°C	11-23-04	RSM				
103°C	11-24-04	RSM				

PROJECT METTLER A-E 200 BALANCE

Notebook No. 0152

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RSM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RSM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RSM	35298

Continued on Page

Read and Understood By

R. Manuel — Signed

11-22-04 — Date

Signed — Date

Curtis & Tompkins, Ltd.

MEMO

RECEIVED
JAN 3 1 2005
TREADWELL & ROLLO

Date: January 28, 2005

To: Sigrida Reinis, T&R

From: Steve Stanley, C&T

RE: Amendment to SDG 176248

Please add these pages to the end of the hardcopy report for SDG 176248. This is a Level IV comprised of several different sections, however, add this as a standalone portion at the end of the Chlorinated Herbicides from APCL.

AMENDED

04-5566

1/19/05

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176248	Collection Date:	12/01/2004
Project ID:	Presidio	Service ID:	45566	Collected by:	
		Lab Sample ID:	04G4163-MB-01	Received Date:	12/01/2004
Sample ID:	**04G4163-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	03:33
Data File Name:	4163G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates			Control Limit, %	Surro. Rec.%
1	2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	90
# of out-of-control				0

Internal Standard			Control Limit, %	IS Rec.%
1	4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	93
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

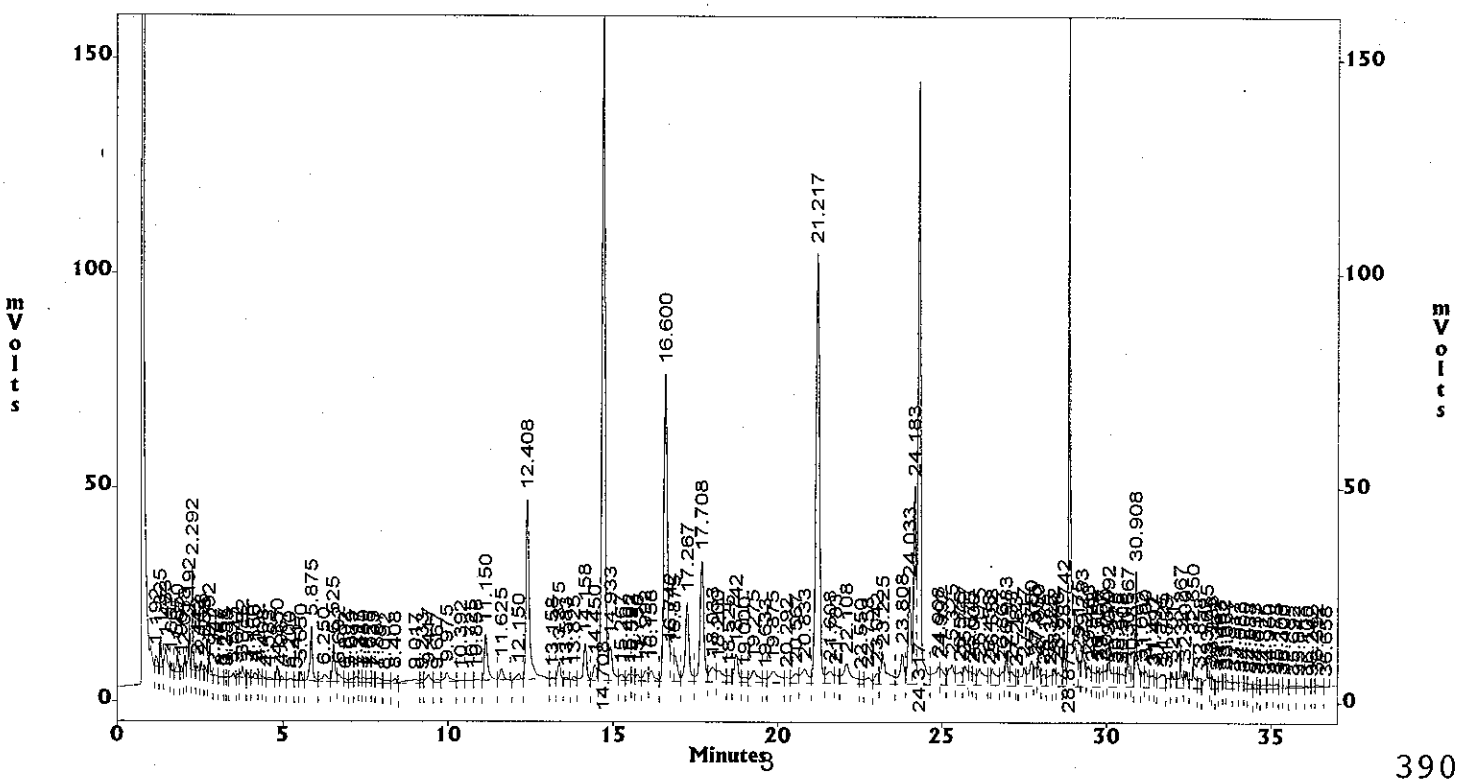
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.k01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : mb f=0.2
Acquired : Dec 09, 2004 03:33:47
Printed : Jan 12, 2005 15:02:31
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.48	25138	4897	0.100089	78.68
54	2	3,5-Di-Cl-Bz acid	11.63	19260	2744	0.135160	44.64
55	3	4-Nitrophenol	12.15	11497	1406	0.097400	36.98
71	4	DCAA(Surr)	16.60	500712	71932	0.082534	1900.49
--	5	Dicamba	17.08	0	0	0.000000	0.00
79	6	MCPP(ppm)	18.74	55255	6551	1.245882	15.12
82	7	MCPA(PPm)	19.63	7217	945	1.625503	0.00
89	8	Dichloroprop	21.78	17771	2061	0.109593	50.80
93	9	2,4-D (m)	23.04	21775	2514	0.113391	60.16
98	10	DBOB (IS)	24.32	798052	140693	1.000000	250.00
101	11	Pentachlorphenol	25.33	58512	4848	1.488131	12.32
107	12	Silvex (m)	26.46	13255	2540	0.555162	7.48
--	13	Chloramben	26.70	0	0	0.000000	0.00
111	14	2,4,5-T (m)	27.13	30666	3363	0.614194	15.64
118	15	Dinoseb	28.33	25517	2640	0.381891	20.93
120	16	2,4-DB	28.56	29889	3264	0.054770	170.95
--	17	Bentazon	28.82	0	0	0.000000	0.00
125	18	Picloram	29.48	40080	5045	0.755629	16.62
129	19	DCPA	30.00	25961	4138	0.897252	9.06
141	20	Acifluorfen	31.73	44445	3288	0.617056	22.56

c:\data\2004\0412\8151t\04g4163\4163g.k01 -- Channel A

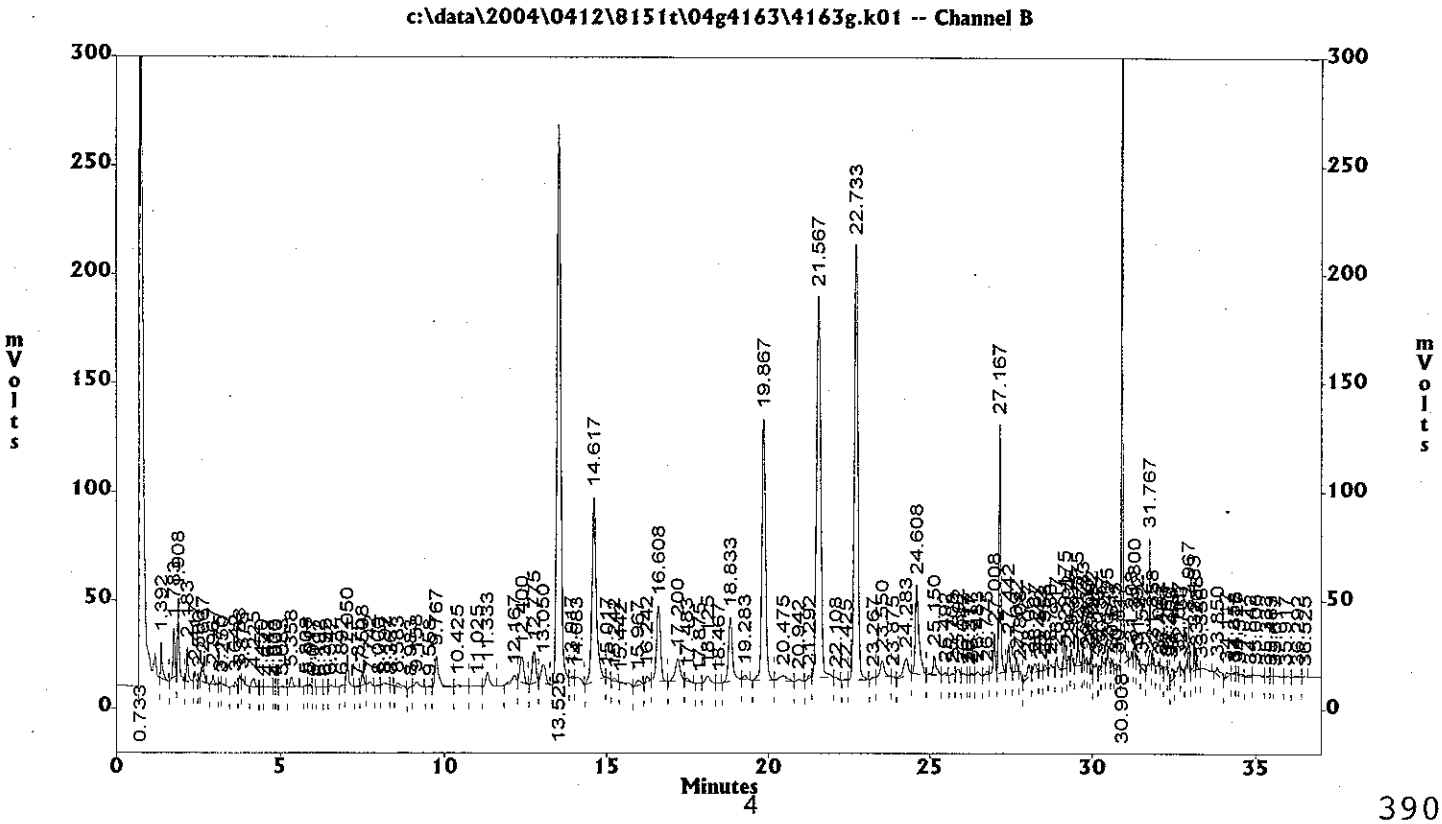


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.k01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : mb f=0.2
Acquired : Dec 09, 2004 03:33:47
Printed : Jan 12, 2005 15:02:31
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
--	1	Dalapon	1.60	0	0	0.000000	0.00
44	2	3,5-Di-Cl-Bz acid	12.17	32193	3279	0.154483	34.82
56	3	4-Nitrophenol	16.24	16608	2765	0.093535	29.67
65	4	DCAA (surr)	19.87	946042	120326	0.088093	1794.37
--	5	Dicamba	21.17	0	0	0.000000	0.00
68	6	MCPP (ppm)	21.29	9409	1340	0.511087	0.00
72	7	DBOB (IS)	22.73	1496229	200471	1.000000	250.00
74	8	MCPA (ppm)	23.55	67062	7604	0.839008	13.53
77	9	Dichloroprop	24.61	318994	41233	0.113524	469.50
82	10	2,4-D (m)	26.04	5568	978	0.094967	9.80
85	11	Pentachlorphenol	26.48	10816	1824	1.572894	1.15
91	12	Silvex (m)	27.81	9021	2380	0.632949	2.38
--	13	2,4,5-T (m)	28.86	0	0	0.000000	0.00
--	14	Dinoseb	29.03	0	0	0.000000	0.00
99	15	Chloramben	29.29	14531	4850	0.478771	5.07
--	16	2,4-DB	29.50	0	0	0.000000	0.00
110	17	Bentazon	30.62	6036	3040	0.071389	14.13
111	18	DCPA	30.73	8131	2985	0.864605	1.57
115	19	Picloram	31.30	38247	19225	0.849758	7.52
120	20	Acifluorfen	32.04	5324	2169	0.656098	1.36



3905

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176248	Collection Date:	11/23/2004
Project ID:	Presidio	Service ID:	45566	Collected by:	
		Lab Sample ID:	04-5566-1	Received Date:	11/30/2004
Sample ID:	**BB3EX153[0.5]**	Sample Matrix	Soil	Moisture %:	2.3
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	06:16
Data File Name:	5566.001	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.026	<0.026	U
2	2,4 DB	94-82-6	mg/kg	0.10	<0.10	U
3	DALAPON	75-99-0	mg/kg	0.10	<0.10	U
4	DICAMBA	1918-00-9	mg/kg	0.010	<0.010	U
5	DICHLOROPROP	120-36-5	mg/kg	0.026	<0.026	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.026	<0.026	U
7	MCPA	94-74-6	mg/kg	5.1	<5.1	U
8	MCPP	93-65-2	mg/kg	5.1	<5.1	U
9	2,4,5-T	93-76-5	mg/kg	0.010	<0.010	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.010	<0.010	U

Surrogates			Control Limit, %	Surro. Rec.%
1	2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	56
# of out-of-control				1

Internal Standard			Control Limit, %	IS Rec.%
1	4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	105
# of out-of-control				0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

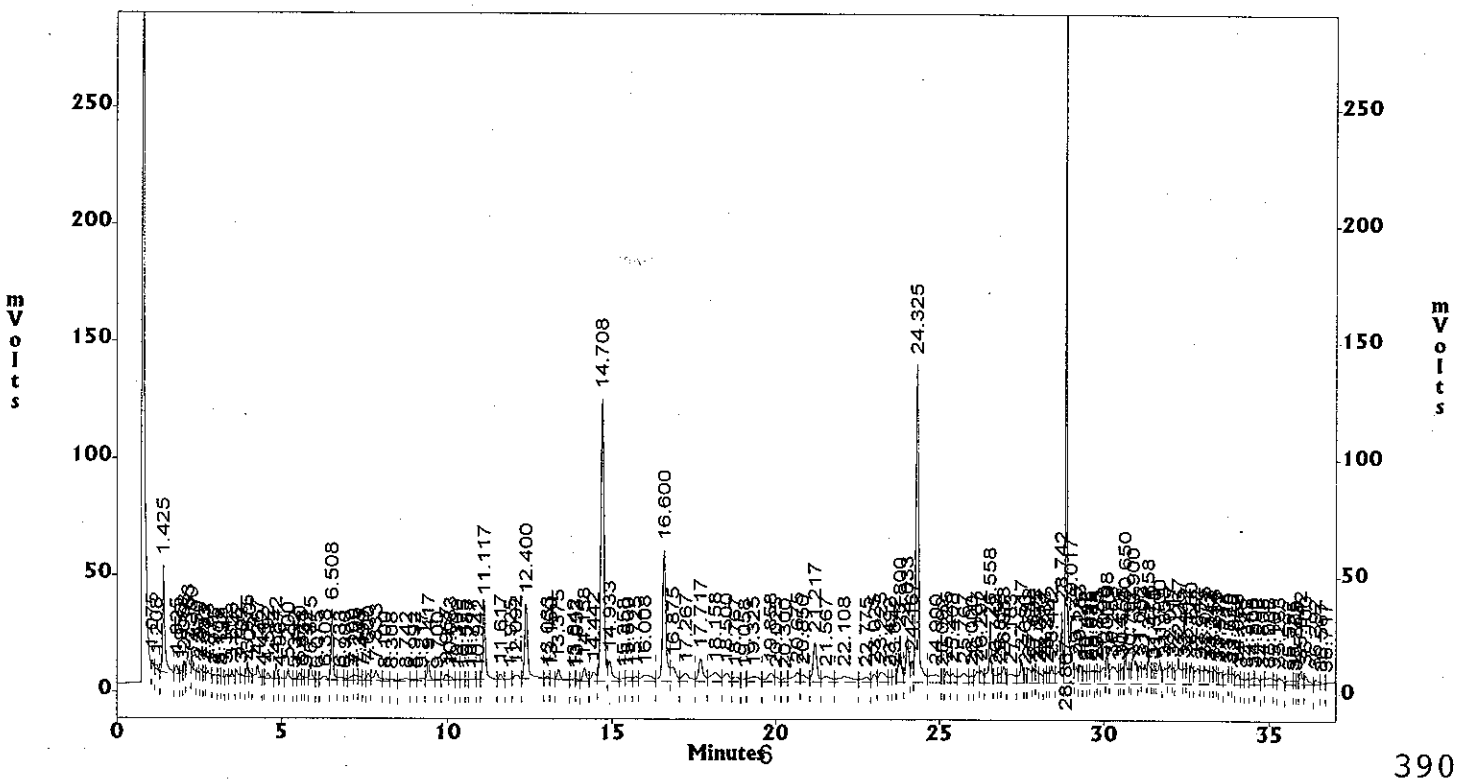
File : c:\data\2004\0412\8151t\04g4163\5566.001
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 5566-01 f=0.2
Acquired : Dec 09, 2004 06:16:36
Printed : Jan 12, 2005 15:02:49
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.42	197613	45824	0.100089	~~626.44~~
59	2	3,5-Di-Cl-Bz acid	11.62	13631	2396	0.135160	~~32.00~~
60	3	4-Nitrophenol	11.93	1449	182	0.097400	~~4.72~~
76	4	DCAA(Surr)	16.60	422402	56020	0.082534	1623.86
--	5	Dicamba	17.08	0	0	0.000000	0.00
82	6	MCPP(ppm)	18.77	26530	2165	1.245882	0.00
--	7	MCPA(PPm)	19.64	0	0	0.000000	0.00
--	8	Dichloroprop	21.77	0	0	0.000000	0.00
94	9	2,4-D (m)	23.02	29219	3402	0.113391	~~81.76~~
101	10	DBOB (IS)	24.33	787925	136160	1.000000	250.00
104	11	Pentachlorphenol	25.23	39647	4867	1.488131	8.45
--	12	Silvex (m)	26.48	0	0	0.000000	0.00
111	13	Chloramben	26.74	28678	3275	0.465274	~~19.56~~
114	14	2,4,5-T (m)	27.18	57805	3892	0.614194	~~29.86~~
122	15	Dinoseb	28.32	23088	4580	0.381891	~~19.18~~
123	16	2,4-DB	28.44	55315	7511	0.054770	~~320.44~~
125	17	Bentazon	28.87	913794	285639	0.112912	~~3358.66~~
129	18	Picloram	29.44	37854	5666	0.755629	~~15.89~~
--	19	DCPA	29.95	0	0	0.000000	0.00
147	20	Acifluorfen	31.70	70186	10566	0.617056	~~36.09~~

nd
correct
1-12-05

c:\data\2004\0412\8151t\04g4163\5566.001 -- Channel A



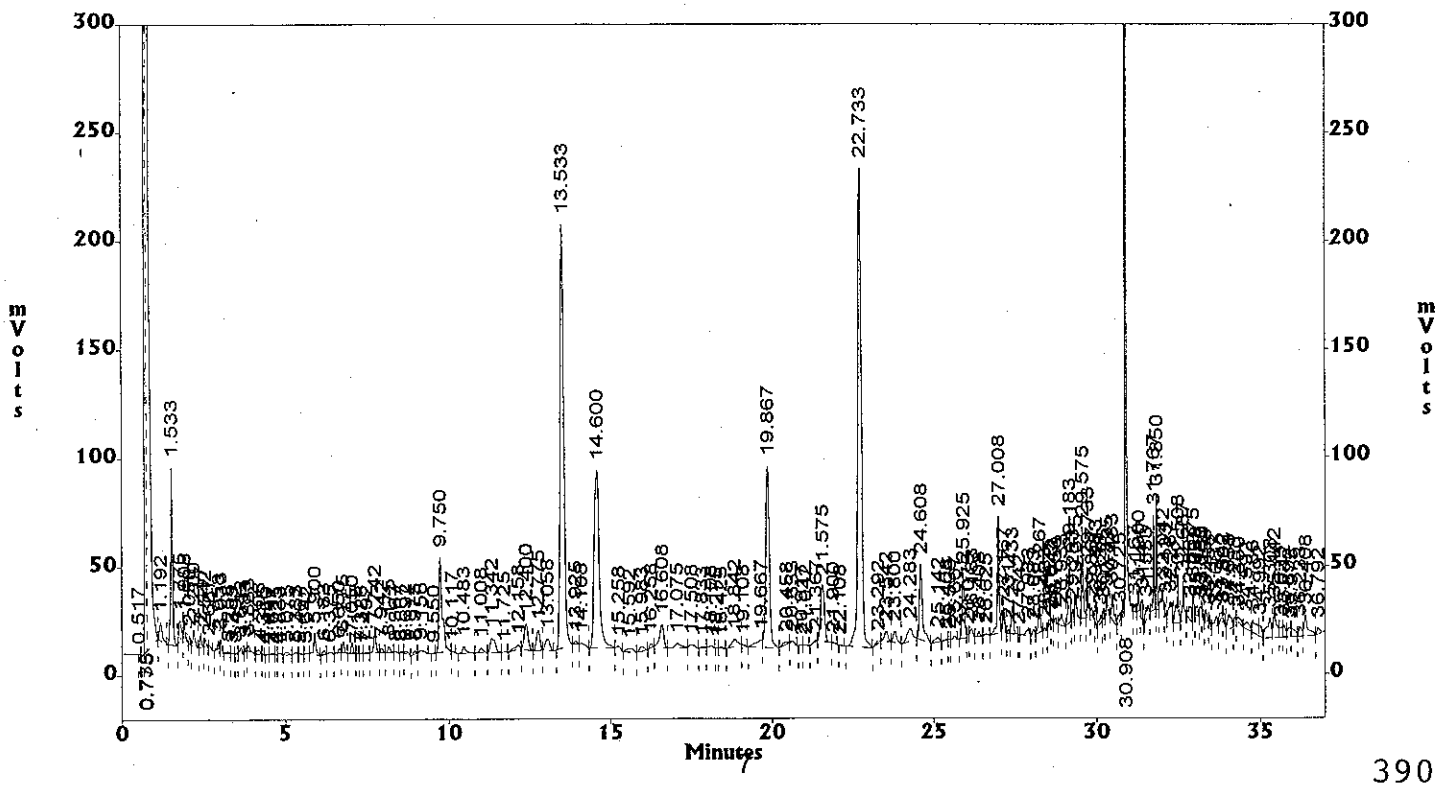
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\5566.001
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 5566-01 f=0.2
Acquired : Dec 09, 2004 06:16:36
Printed : Jan 12, 2005 15:02:49
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.53	301934	82004	0.126755	350.78
55	2	3,5-Di-Cl-Bz acid	12.16	25666	2268	0.154483	24.47
66	3	4-Nitrophenol	16.26	11133	1978	0.093535	17.53
77	4	DCAA (surr)	19.87	662297	83880	0.088093	1107.15
81	5	Dicamba	21.04	2615	452	0.371609	1.04
82	6	MCPP (ppm)	21.37	6862	817	0.511087	0.00
86	7	DBOB (IS)	22.73	1697649	221060	1.000000	250.00
88	8	MCPA (ppm)	23.54	36763	4757	0.839008	0.00
91	9	Dichloroprop	24.61	233105	35163	0.113524	302.38
97	10	2,4-D (m)	26.08	7275	1872	0.094967	11.28
99	11	Pentachlorphenol	26.41	10628	2238	1.572894	1.00
--	12	Silvex (m)	27.81	0	0	0.000000	0.00
--	13	2,4,5-T (m)	28.86	0	0	0.000000	0.00
--	14	Dinoseb	29.03	0	0	0.000000	0.00
116	15	Chloramben	29.38	41161	10562	0.478771	12.66
--	16	2,4-DB	29.50	0	0	0.000000	0.00
--	17	Bentazon	30.59	0	0	0.000000	0.00
125	18	DCPA	30.73	21947	3885	0.864605	3.74
128	19	Picloram	31.30	24439	9545	0.849758	4.24
133	20	Acifluorfen	32.04	42137	10058	0.656098	9.46

c:\data\2004\0412\8151t\04g4163\5566.001 -- Channel B



FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	045566
Project ID:	Presidio	Project No:	176248	Sample Matrix:	Soil
		Batch No:	04G4163		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G4163-MB-01	04G4163-MB-01	90	0
2	04G4163-LCS-01	04G4163-LCS-01	83	0
3	04G4163-LSD-01	04G4163-LSD-01	83	0
4	BB3EX153[0.5]	04-5566-1	56 *	1
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	45566
Project ID:	Presidio	Project No:	176248	Sample Matrix:	Soil
		Batch No:	04G4163		
LCS Filename:	4163G.L01	Date Analyzed:	120904	Time Analyzed:	04:14
LCSD Filename:	4163G.J01	Date Analyzed:	120904	Time Analyzed:	04:55

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0460	92	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0469	94	65-135
2,4,5-T	mg/kg	0.050	0	0.0357	71	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0447	89	3	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0464	93	1	35	65-135
2,4,5-T	mg/kg	0.050	0.0370	74	4	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

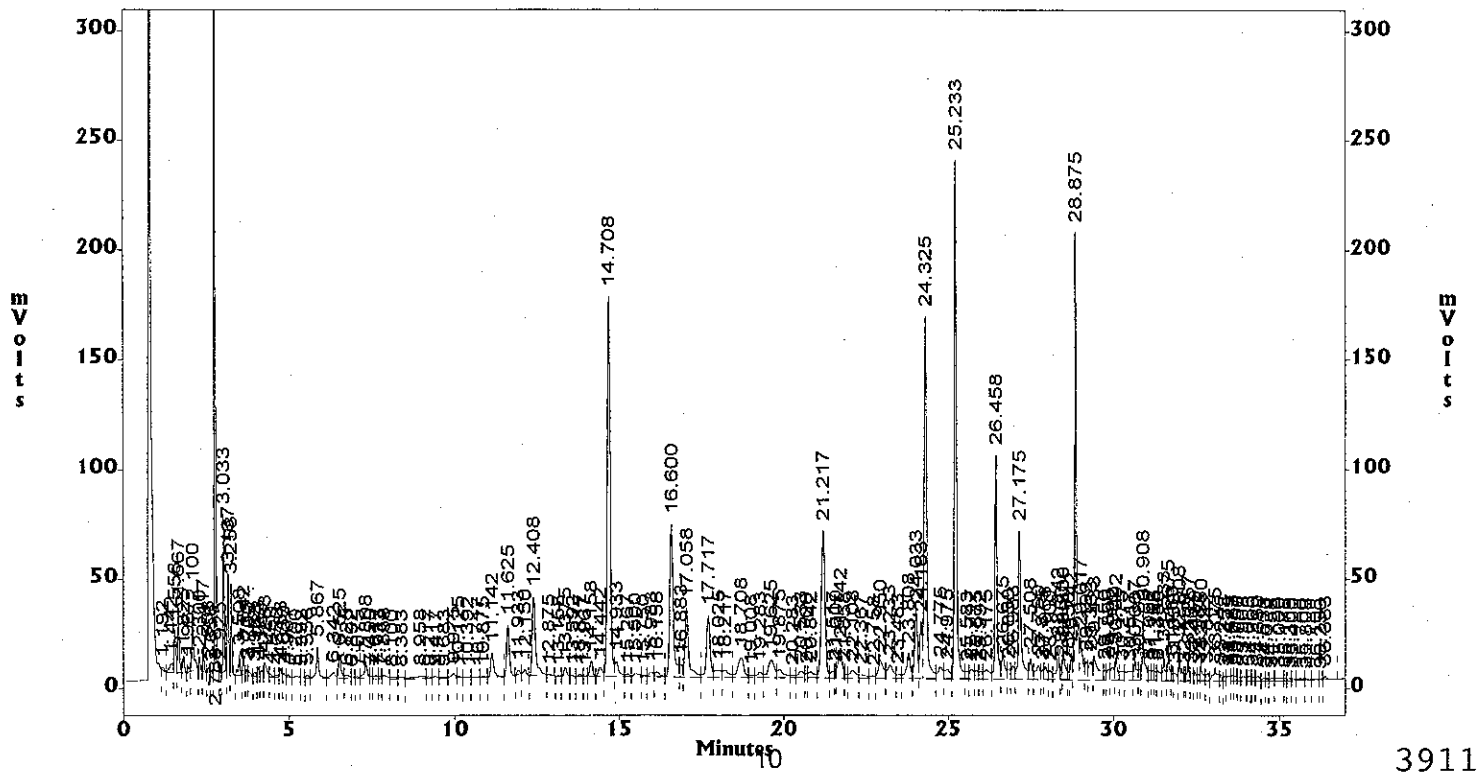
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.101
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcs f=0.2
Acquired : Dec 09, 2004 04:14:28
Printed : Jan 12, 2005 15:02:36
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	63308	19727	0.100089	168.25
56	2	3,5-Di-Cl-Bz acid	11.63	132148	23372	0.135160	260.07
57	3	4-Nitrophenol	11.93	10123	2035	0.097400	27.65
75	4	DCAA(Surr)	16.60	514965	69881	0.082534	1659.68
77	5	Dicamba	17.06	255038	31429	0.361851	187.48
81	6	MCPP(ppm)	18.71	121385	9102	1.245882	55.75
84	7	MCPA(PPm)	19.63	101133	8105	1.625503	26.54
93	8	Dichloroprop	21.74	120851	13678	0.109593	293.32
98	9	2,4-D (m)	22.95	86679	8450	0.113391	203.34
104	10	DBOB (IS)	24.33	939858	165501	1.000000	250.00
107	11	Pentachlorphenol	25.23	1124162	237148	1.488131	200.94
113	12	Silvex (m)	26.46	476103	102785	0.555162	228.12
114	13	Chloramben	26.67	76132	10543	0.465274	43.52
117	14	2,4,5-T (m)	27.17	392235	68119	0.614194	169.87
123	15	Dinoseb	28.34	74620	14714	0.381891	51.97
125	16	2,4-DB	28.50	80630	14898	0.054770	391.59
--	17	Bentazon	28.82	0	0	0.000000	0.00
132	18	Picloram	29.43	115817	10967	0.755629	40.77
135	19	DCPA	29.99	41581	6114	0.897252	12.33
147	20	Acifluorfen	31.67	58063	18688	0.617056	25.03

c:\data\2004\0412\8151t\04g4163\4163g.I01 -- Channel A



3911

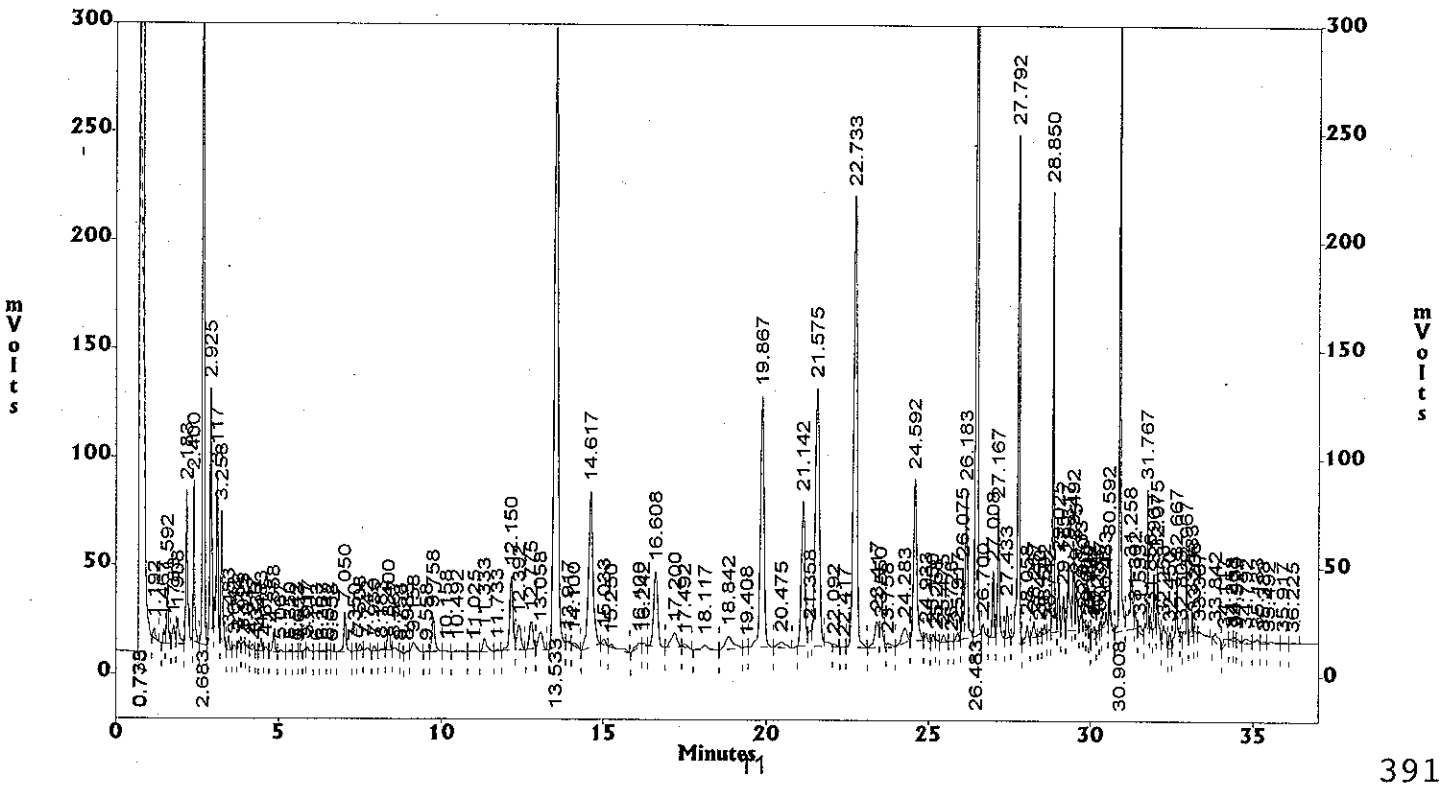
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.101
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcs f=0.2
Acquired : Dec 09, 2004 04:14:28
Printed : Jan 12, 2005 15:02:36
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	109423	28512	0.126755	137.21
52	2	3,5-Di-Cl-Bz acid	12.15	238390	33867	0.154483	245.28
63	3	4-Nitrophenol	16.24	6823	1450	0.093535	11.59
70	4	DCAA (surr)	19.87	917003	115574	0.088093	1654.58
72	5	Dicamba	21.14	503633	66929	0.371609	215.42
73	6	MCPP (ppm)	21.36	50797	7538	0.511087	17.15
77	7	DBOB (IS)	22.73	1572831	208135	1.000000	250.00
78	8	MCPA (ppm)	23.42	110223	12059	0.839008	31.05
82	9	Dichloroprop	24.59	545086	74560	0.113524	763.20
89	10	2,4-D (m)	26.08	137333	32675	0.094967	229.86
91	11	Pentachlorphenol	26.48	2022936	488885	1.572894	204.43
96	12	Silvex (m)	27.79	933968	234119	0.632949	234.54
102	13	2,4,5-T (m)	28.85	626768	202956	0.557553	178.68
103	14	Dinoseb	29.02	96227	32139	0.471303	32.45
105	15	Chloramben	29.32	149103	31527	0.478771	49.50
106	16	2,4-DB	29.49	125875	37511	0.067091	298.22
116	17	Bentazon	30.59	92575	37283	0.071389	206.12
--	18	DCPA	30.67	0	0	0.000000	0.00
118	19	Picloram	31.26	182065	28684	0.849758	34.06
124	20	Acifluorfen	32.08	77950	32382	0.656098	18.88

c:\data\2004\0412\8151t\04g4163\4163g.I01 -- Channel B



3912

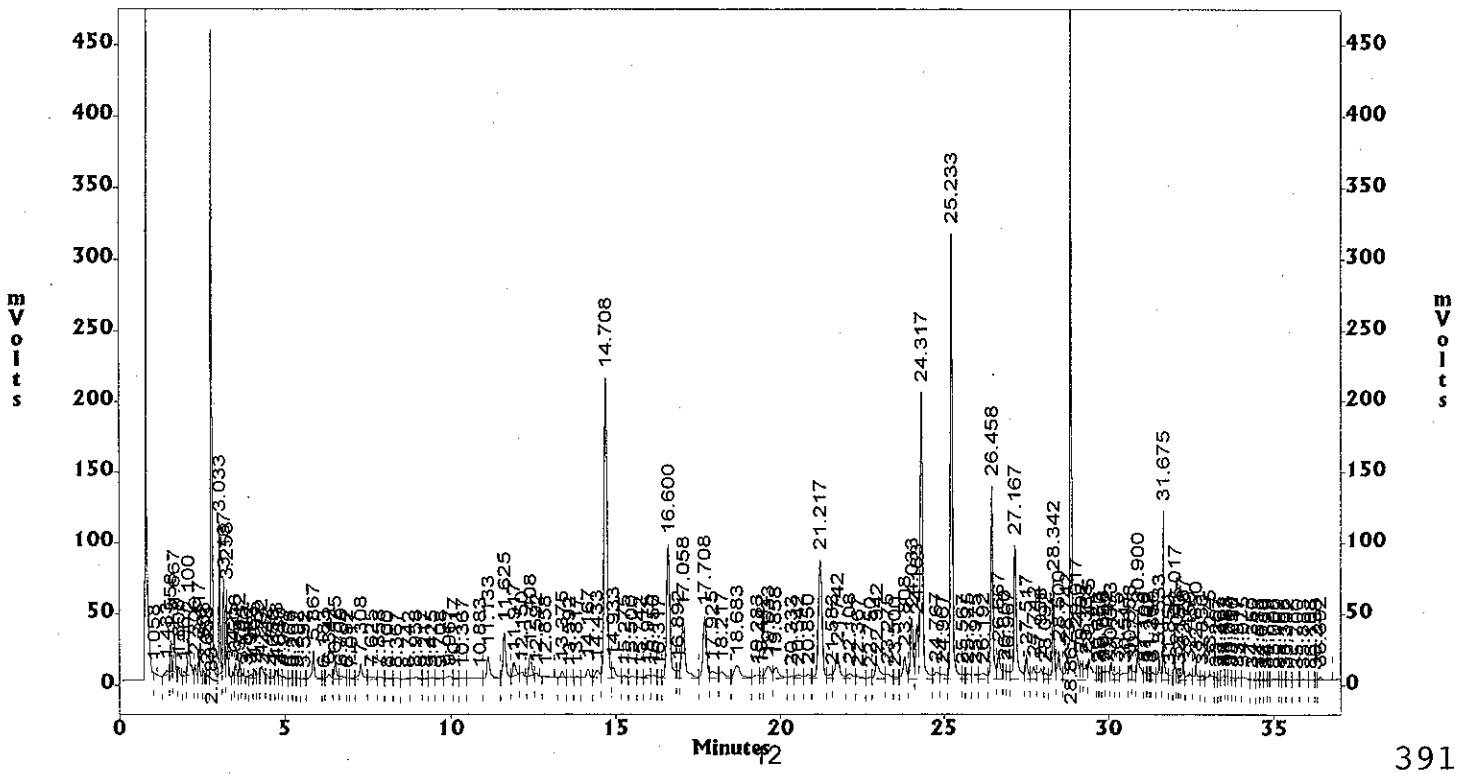
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.j01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcsd f=0.2
Acquired : Dec 09, 2004 04:55:12
Printed : Jan 12, 2005 15:02:40
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	54663	21912	0.100089	117.95
56	2	3,5-Di-Cl-Bz acid	11.63	176277	31690	0.135160	281.67
57	3	4-Nitrophenol	11.92	57564	9676	0.097400	127.64
75	4	DCAA(Surr)	16.60	674035	94022	0.082534	1763.79
77	5	Dicamba	17.06	332584	42884	0.361851	198.50
81	6	MCPP(ppm)	18.68	123736	9134	1.245882	40.66
84	7	MCPA(PPm)	19.63	100177	9037	1.625503	13.54
91	8	Dichloroprop	21.74	166871	17754	0.109593	328.85
95	9	2,4-D (m)	22.94	124600	10854	0.113391	237.32
101	10	DBOB (IS)	24.32	1157562	202567	1.000000	250.00
104	11	Pentachlorphenol	25.23	1467030	313838	1.488131	212.91
109	12	Silvex (m)	26.46	607296	136024	0.555162	236.25
110	13	Chloramben	26.67	124704	19416	0.465274	57.89
113	14	2,4,5-T (m)	27.17	511308	94472	0.614194	179.79
118	15	Dinoseb	28.34	244715	69349	0.381891	138.39
119	16	2,4-DB	28.50	121509	20040	0.054770	479.14
121	17	Bentazon	28.87	1576848	471753	0.112912	3951.81
125	18	Picloram	29.42	126692	14937	0.755629	36.21
129	19	DCPA	29.94	48036	6492	0.897252	11.56
141	20	Acifluorfen	31.67	259892	118965	0.617056	90.96

c:\data\2004\0412\8151t\04g4163\4163g.j01 -- Channel A



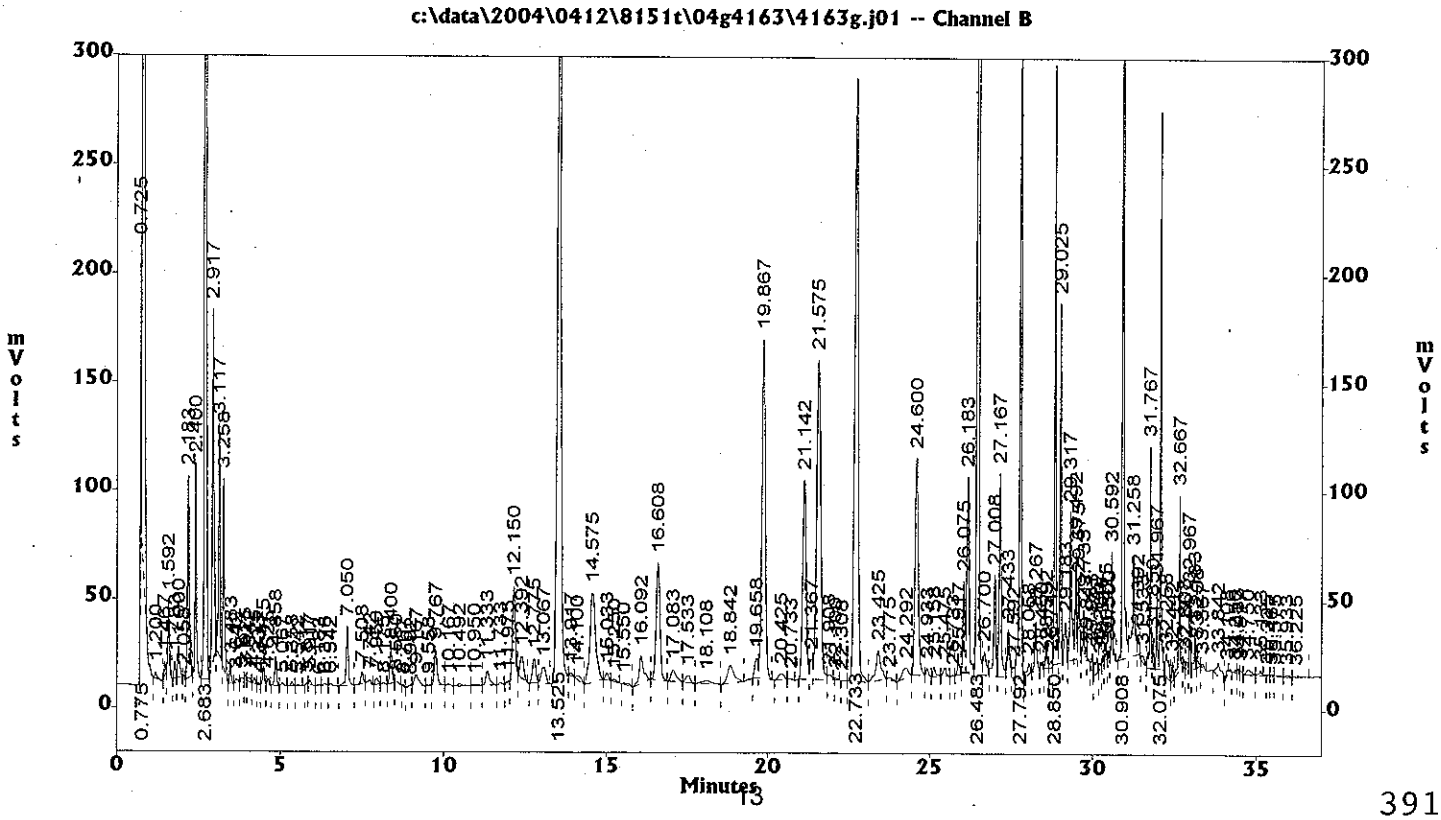
3913

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.j01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcsd f=0.2
Acquired : Dec 09, 2004 04:55:12
Printed : Jan 12, 2005 15:02:40
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	112438	33664	0.126755	108.05
51	2	3,5-Di-Cl-Bz acid	12.15	253635	42198	0.154483	199.99
62	3	4-Nitrophenol	16.09	124282	12627	0.093535	161.85
69	4	DCAA (surr)	19.87	1192223	156476	0.088093	1648.54
72	5	Dicamba	21.14	688907	91726	0.371609	225.82
73	6	MCPP (ppm)	21.37	60992	9344	0.511087	14.91
78	7	DBOB (IS)	22.73	2052375	277930	1.000000	250.00
79	8	MCPA (ppm)	23.42	153310	13755	0.839008	34.26
82	9	Dichloroprop	24.60	719409	100099	0.113524	771.92
88	10	2,4-D (m)	26.08	174181	42100	0.094967	223.42
90	11	Pentachlorphenol	26.48	2661863	632936	1.572894	206.14
96	12	Silvex (m)	27.79	1206120	310221	0.632949	232.12
102	13	2,4,5-T (m)	28.85	846571	276031	0.557553	184.95
103	14	Dinoseb	29.02	453018	165653	0.471303	117.08
105	15	Chloramben	29.32	259348	68622	0.478771	65.98
106	16	2,4-DB	29.49	146319	49137	0.067091	265.65
116	17	Bentazon	30.59	119244	48570	0.071389	203.46
--	18	DCPA	30.67	0	0	0.000000	0.00
118	19	Picloram	31.26	230812	46455	0.849758	33.09
124	20	Acifluorfen	32.08	476811	256716	0.656098	88.52



3914

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 1 Dalapon

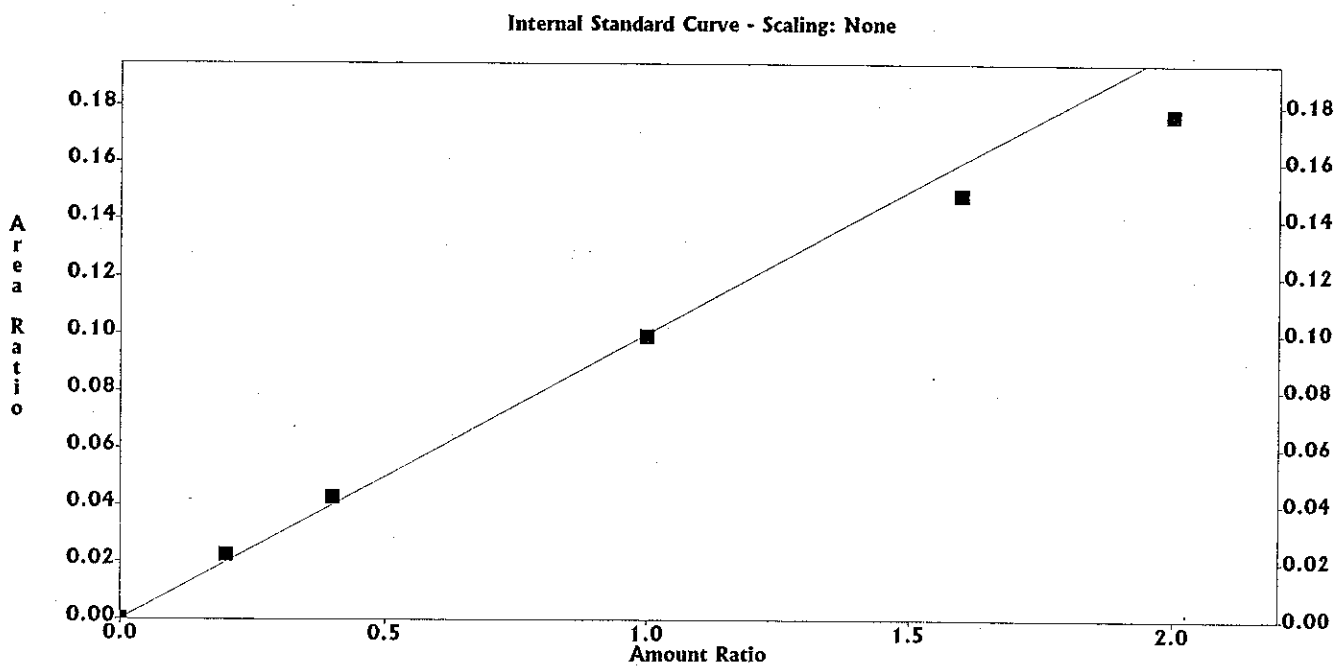
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0225	0.2	0.1127	0.0225							0
2	0.0428	0.4	0.107	0.0428							0
3	0.0993	1	0.0993	0.0993							0
4	0.1487	1.6	0.09292	0.1487							0
5	0.1771	2	0.08856	0.1771							0

Calib Flag: Replace

Average RF: 0.100089
RF StdDev: 0.00988719
RF %RSD: 9.878

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.100089



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

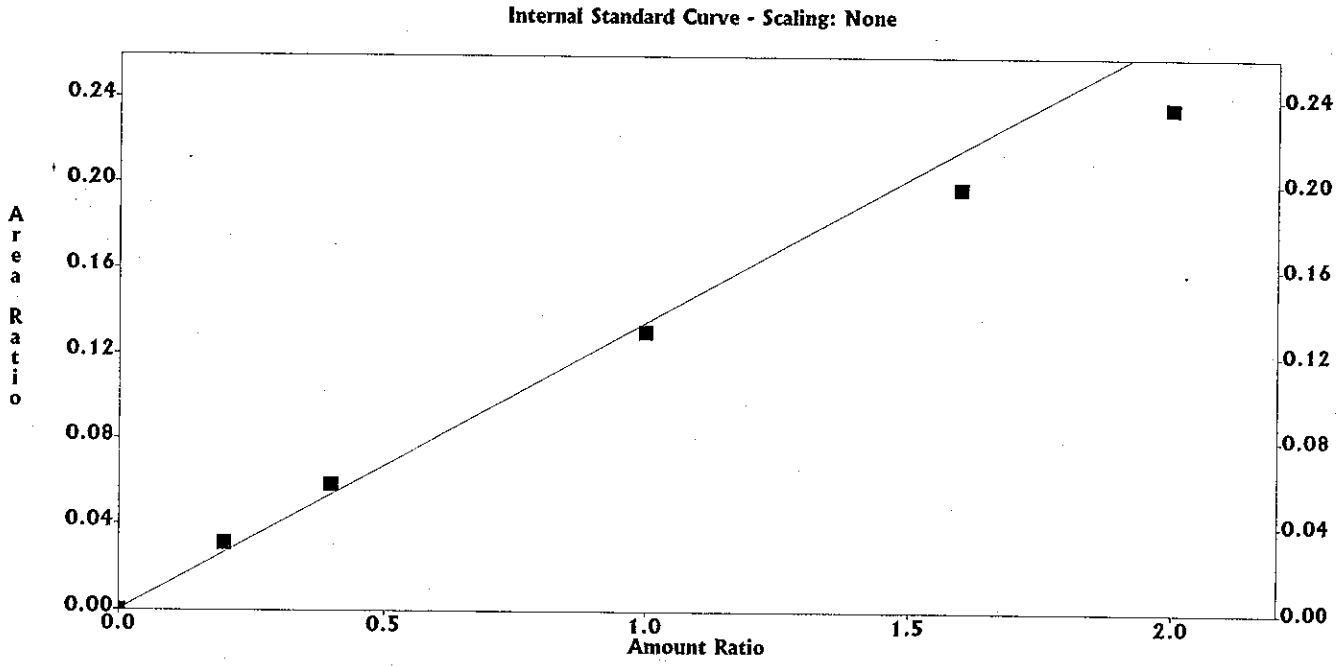
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0313	0.2	0.1567	0.0313							0
2	0.0587	0.4	0.1468	0.0587							0
3	0.1305	1	0.1305	0.1305							0
4	0.1979	1.6	0.1237	0.1979							0
5	0.2363	2	0.1182	0.2363							0

Calib Flag: Replace

Average RF: 0.13516
RF StdDev: 0.0161433
RF %RSD: 11.944

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.13516



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 3 4-Nitrophenol

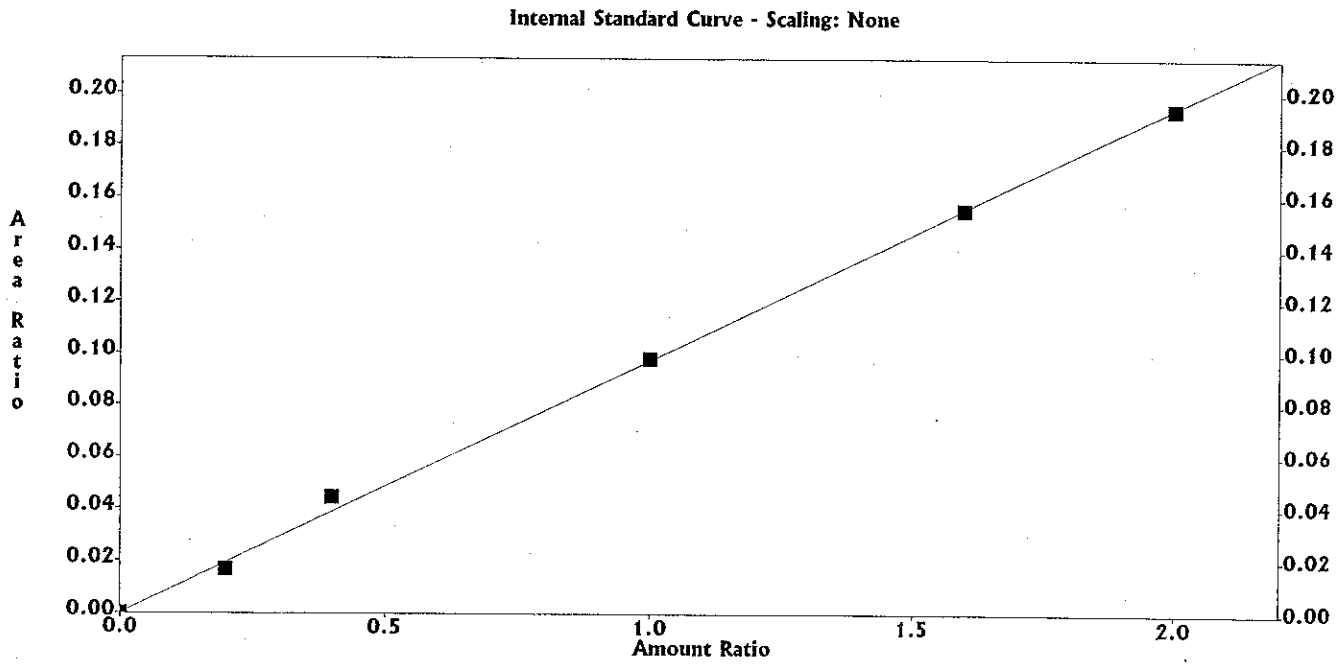
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0168	0.2	0.08392	0.0168							0
2	0.0443	0.4	0.1108	0.0443							0
3	0.0980	1	0.09797	0.0980							0
4	0.1554	1.6	0.09713	0.1554							0
5	0.1943	2	0.09713	0.1943							0

Calib Flag: Replace

Average RF: 0.0974005
RF StdDev: 0.00952204
RF %RSD: 9.776

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0974005



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 4 DCAA(Surr)

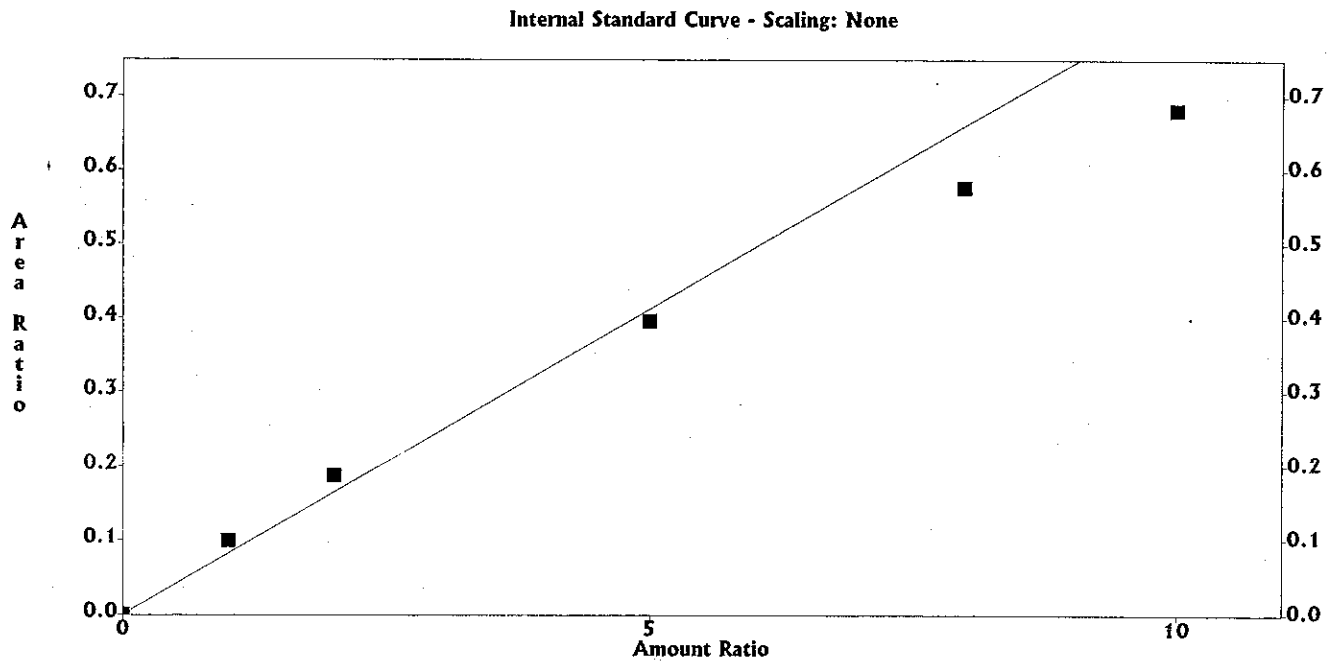
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0994	1	0.0994	0.0994							0
2	0.1875	2	0.09375	0.1875							0
3	0.3964	5	0.07928	0.3964							0
4	0.5766	8	0.07208	0.5766							0
5	0.6816	10	0.06816	0.6816							0

Calib Flag: Replace

Average RF: 0.0825338
RF StdDev: 0.013572
RF %RSD: 16.444

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0825338



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 5 Dicamba

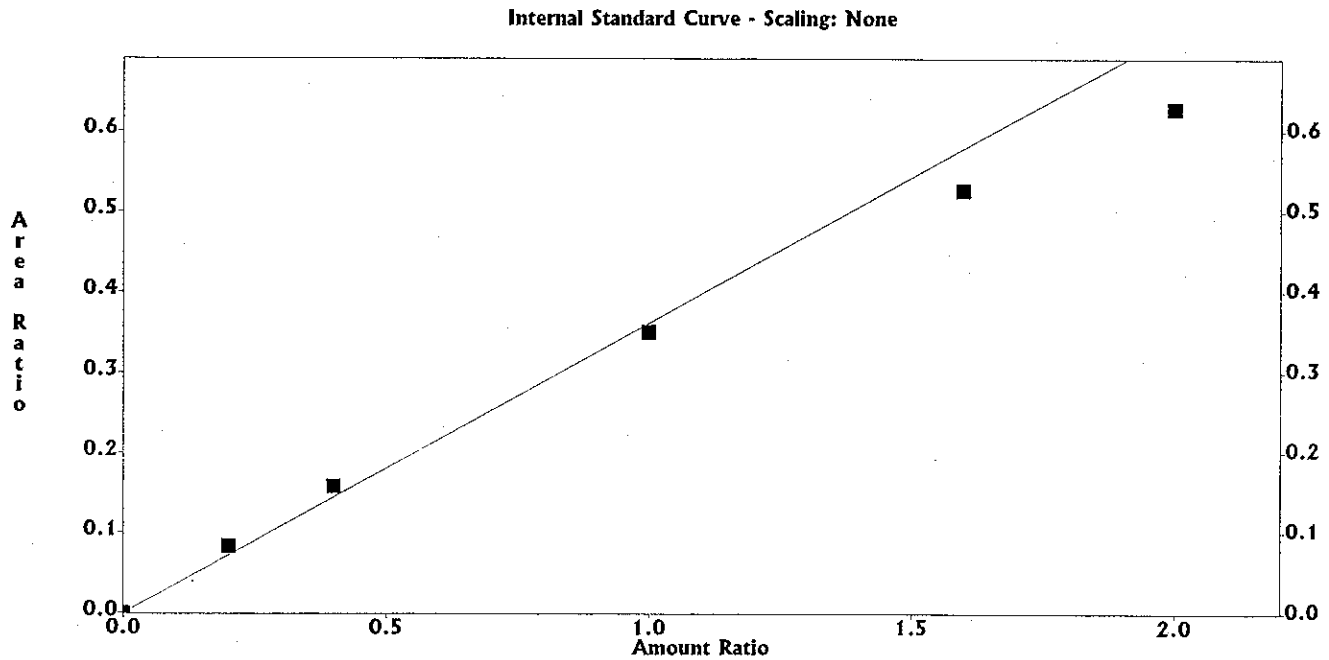
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0838	0.2	0.4189	0.0838							0
2	0.1585	0.4	0.3961	0.1585							0
3	0.3509	1	0.3509	0.3509							0
4	0.5264	1.6	0.329	0.5264							0
5	0.6287	2	0.3143	0.6287							0

Calib Flag: Replace

Average RF: 0.361851
RF StdDev: 0.0443894
RF %RSD: 12.267

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.361851



3919

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 6 MCPP(ppm)

* - Replicate Not Used

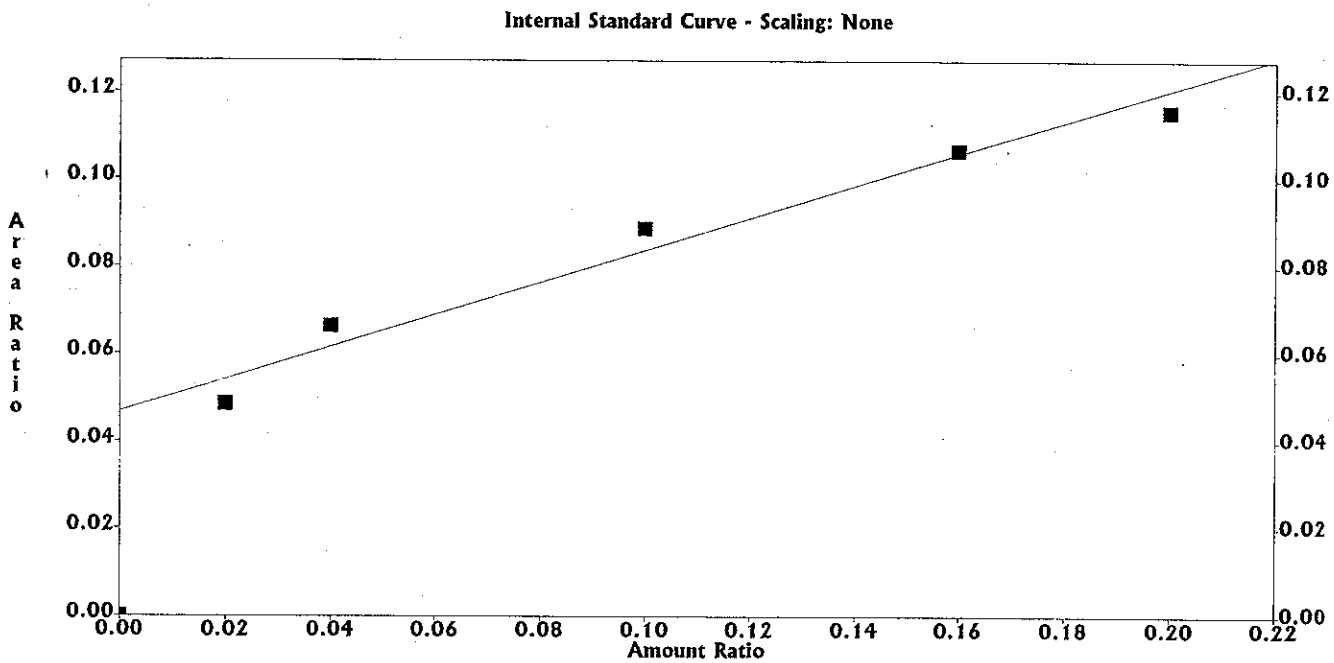
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0487	0.02	2.43	0.0487							0
2	0.0665	0.04	1.66	0.0665							0
3	0.0888	0.1	0.8878	0.0888							0
4	0.1066	0.16	0.6664	0.1066							0
5	0.1158	0.2	0.5792	0.1158							0

Calib Flag: Replace

Average RF: 1.24588
RF StdDev: 0.789639
RF %RSD: 63.380

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.71227 x Area - 0.127295
R^2 = 0.967761



3920

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:12
Channel : A
Peak : 7 MCPA(PPm)

* - Replicate Not Used

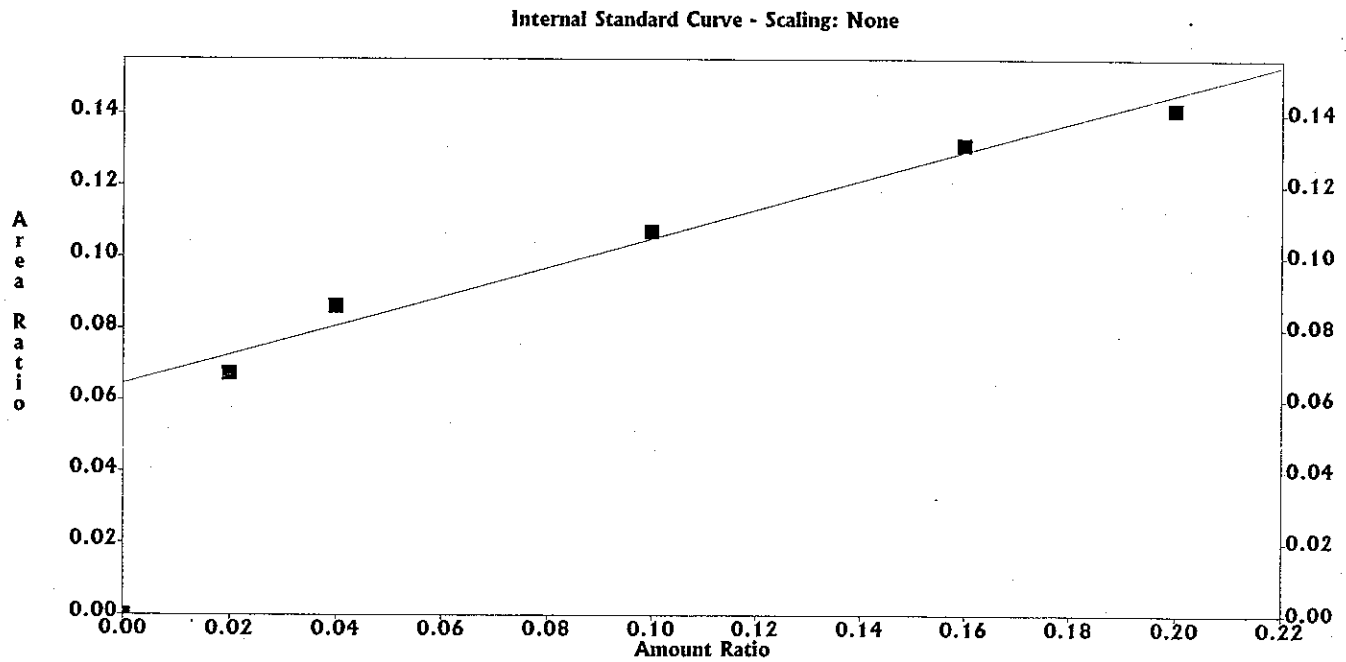
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0674	0.02	3.37	0.0674							0
2	0.0864	0.04	2.16	0.0864							0
3	0.1072	0.1	1.07	0.1072							0
4	0.1313	0.16	0.8207	0.1313							0
5	0.1414	0.2	0.7071	0.1414							0

Calib Flag: Replace

Average RF: 1.6255
RF StdDev: 1.13165
RF %RSD: 69.619

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.46987 x Area - 0.159601
R^2 = 0.978047



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 8 Dichloroprop

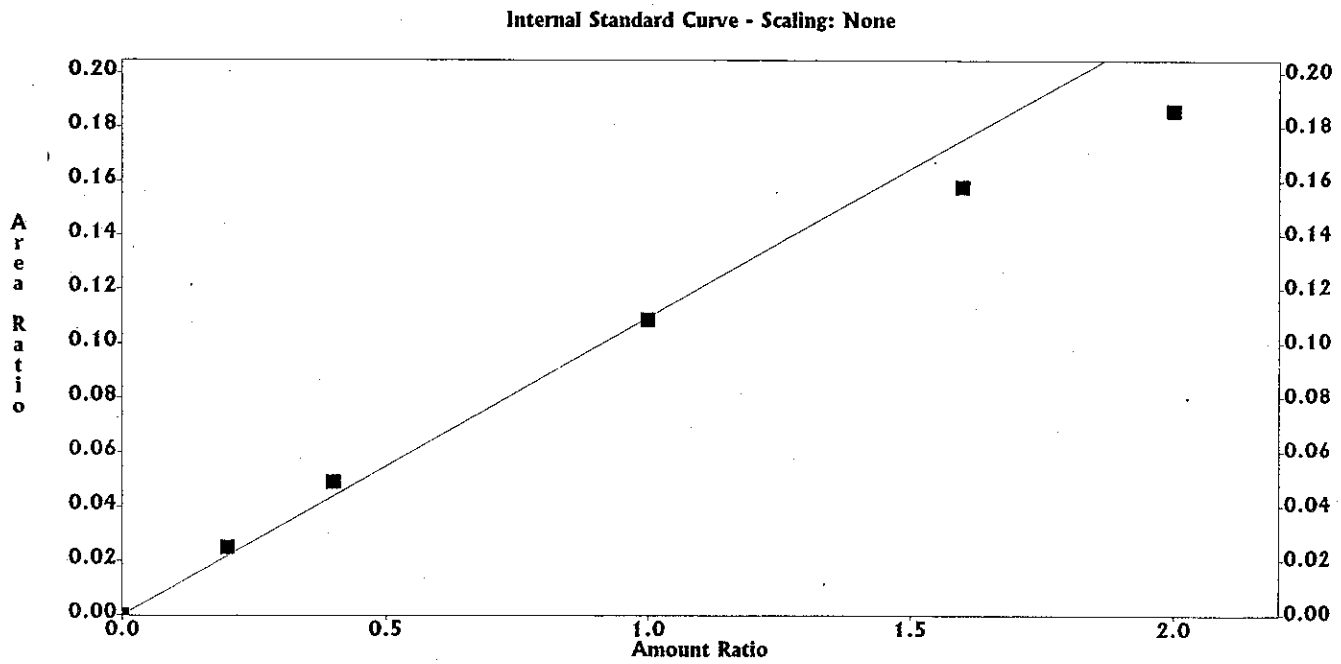
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0249	0.2	0.1247	0.0249							0
2	0.0491	0.4	0.1227	0.0491							0
3	0.1088	1	0.1088	0.1088							0
4	0.1579	1.6	0.09867	0.1579							0
5	0.1862	2	0.09311	0.1862							0

Calib Flag: Replace

Average RF: 0.109593
RF StdDev: 0.01406
RF %RSD: 12.829

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.109593



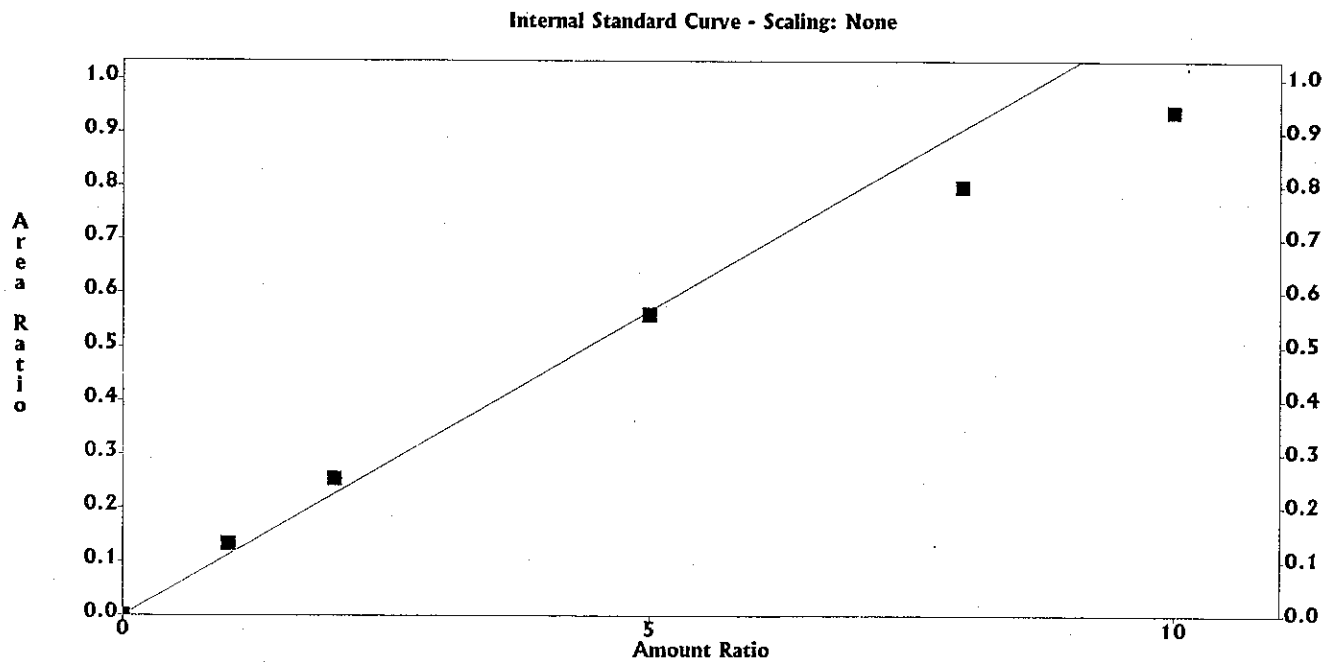
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 9 2,4-D (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1340	1	0.134	0.1340							0
2	0.2543	2	0.1272	0.2543							0
3	0.5600	5	0.112	0.5600							0
4	0.7984	8	0.0998	0.7984							0
5	0.9403	10	0.09403	0.9403							0

Calib Flag: Replace

Average RF: 0.113391
RF StdDev: 0.0171322
RF %RSD: 15.109

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.113391



3923

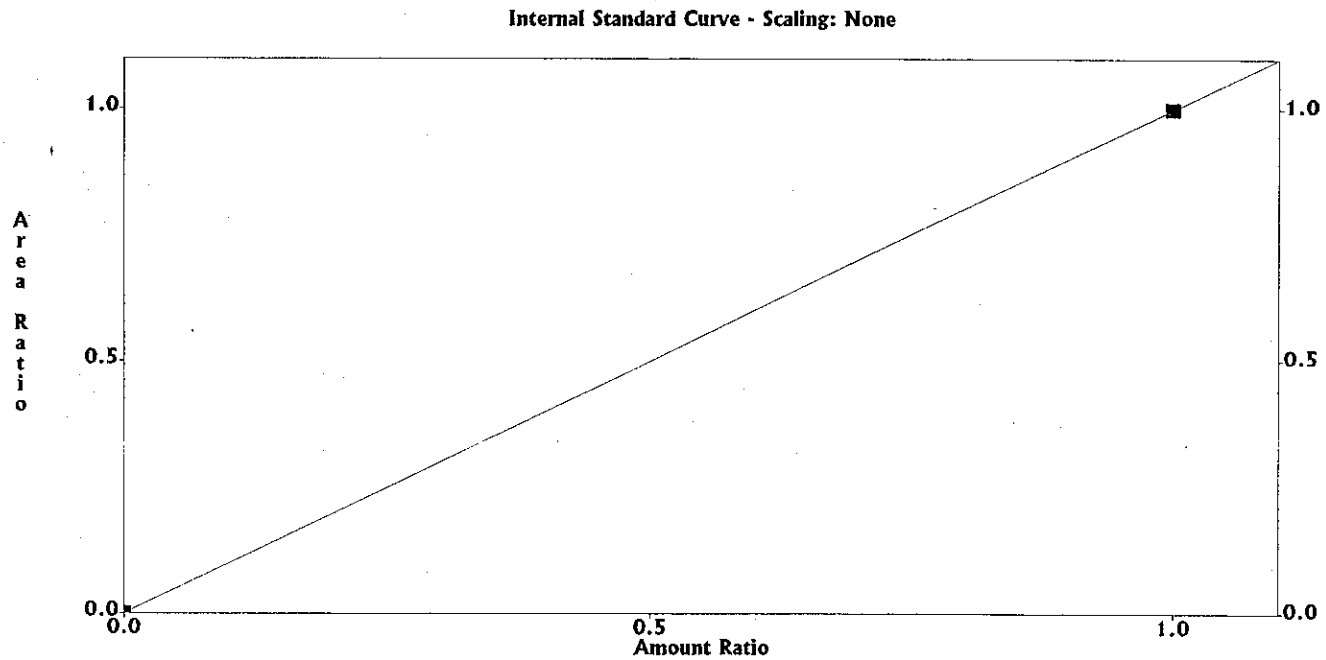
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 10 DBOB (IS)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



3924

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 11 Pentachlorphenol

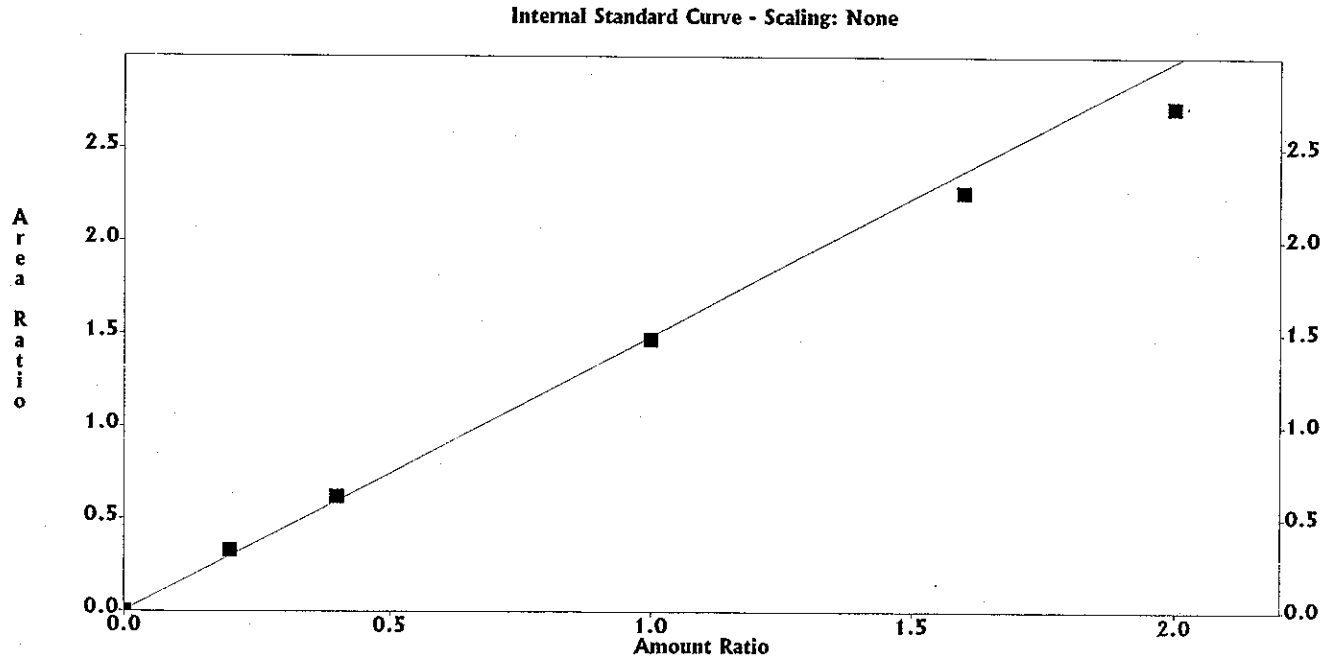
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3284	0.2	1.64	0.3284							0
2	0.6196	0.4	1.55	0.6196							0
3	1.4713	1	1.47	1.4713							0
4	2.2643	1.6	1.42	2.2643							0
5	2.7260	2	1.36	2.7260							0

Calib Flag: Replace

Average RF: 1.48813
RF StdDev: 0.110303
RF %RSD: 7.412

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.48813



3925

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 12 Silvex (m)

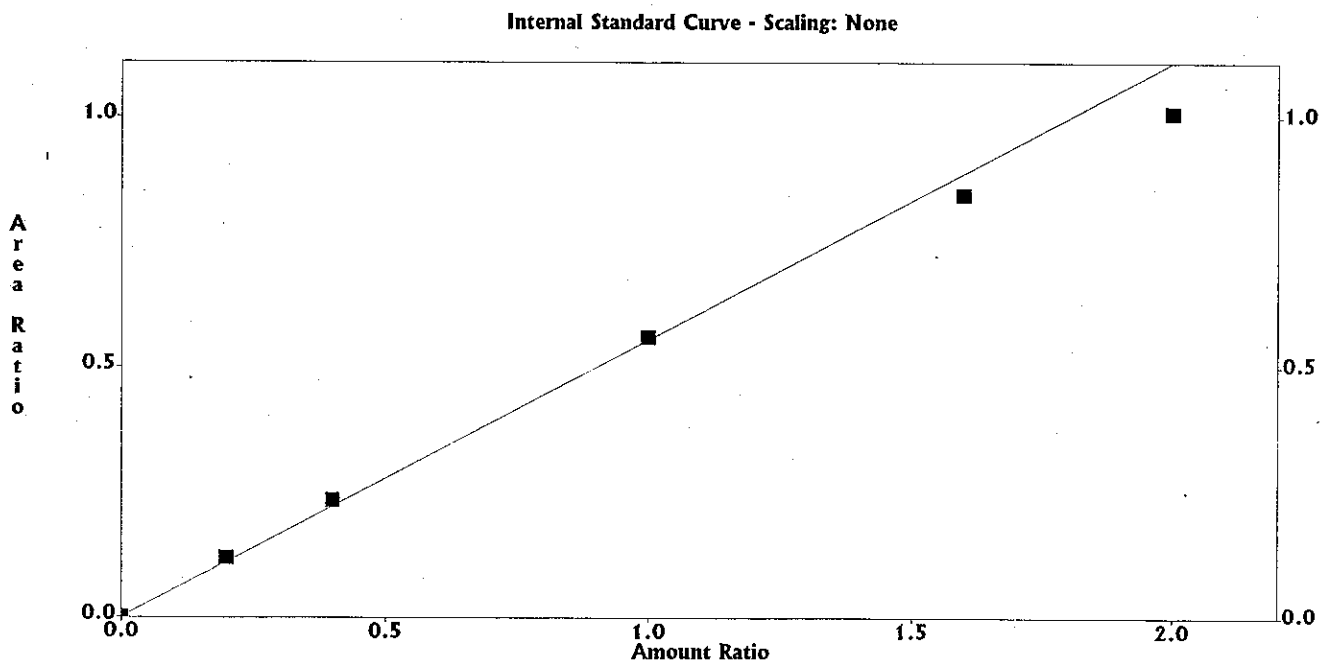
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1193	0.2	0.5965	0.1193							0
2	0.2342	0.4	0.5856	0.2342							0
3	0.5609	1	0.5609	0.5609							0
4	0.8451	1.6	0.5282	0.8451							0
5	1.0094	2	0.5047	1.0094							0

Calib Flag: Replace

Average RF: 0.555162
RF StdDev: 0.0385256
RF %RSD: 6.940

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.555162



3926

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 13 Chloramben

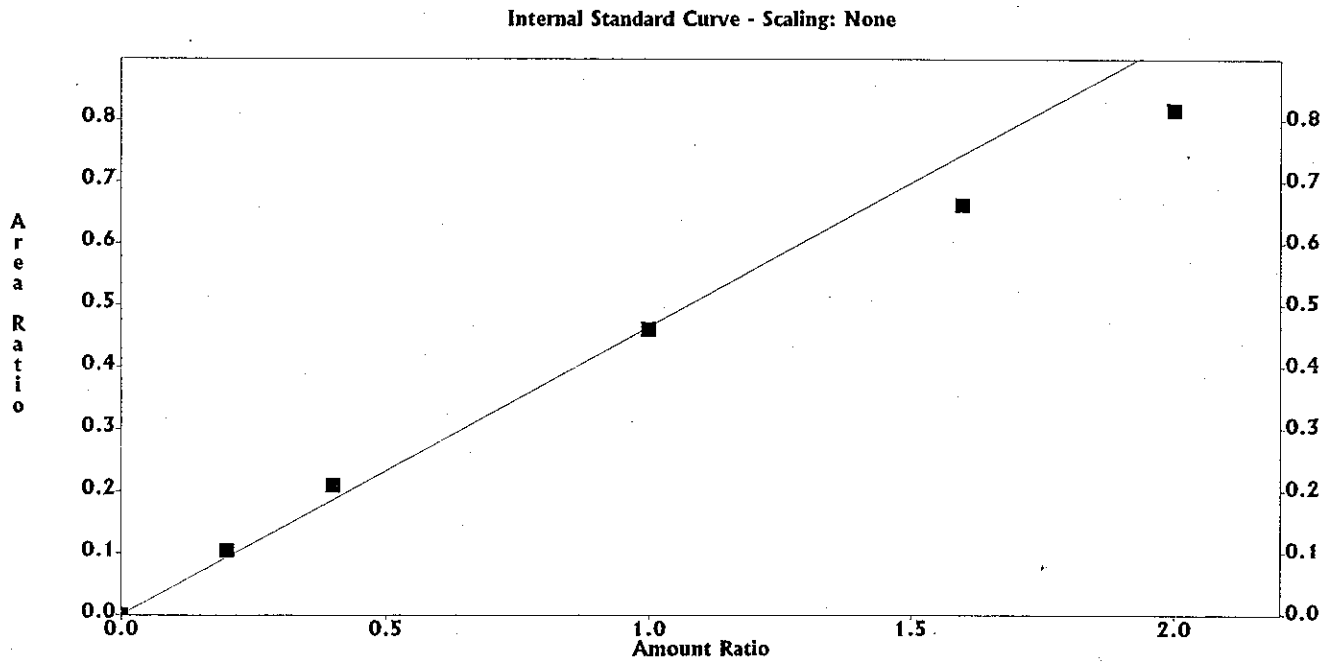
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1038	0.2	0.5192	0.1038							0
2	0.2091	0.4	0.5227	0.2091							0
3	0.4616	1	0.4616	0.4616							0
4	0.6628	1.6	0.4143	0.6628							0
5	0.8170	2	0.4085	0.8170							0

Calib Flag: Replace

Average RF: 0.465274
RF StdDev: 0.0548785
RF %RSD: 11.795

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.465274



3927

Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 14 2,4,5-T (m)

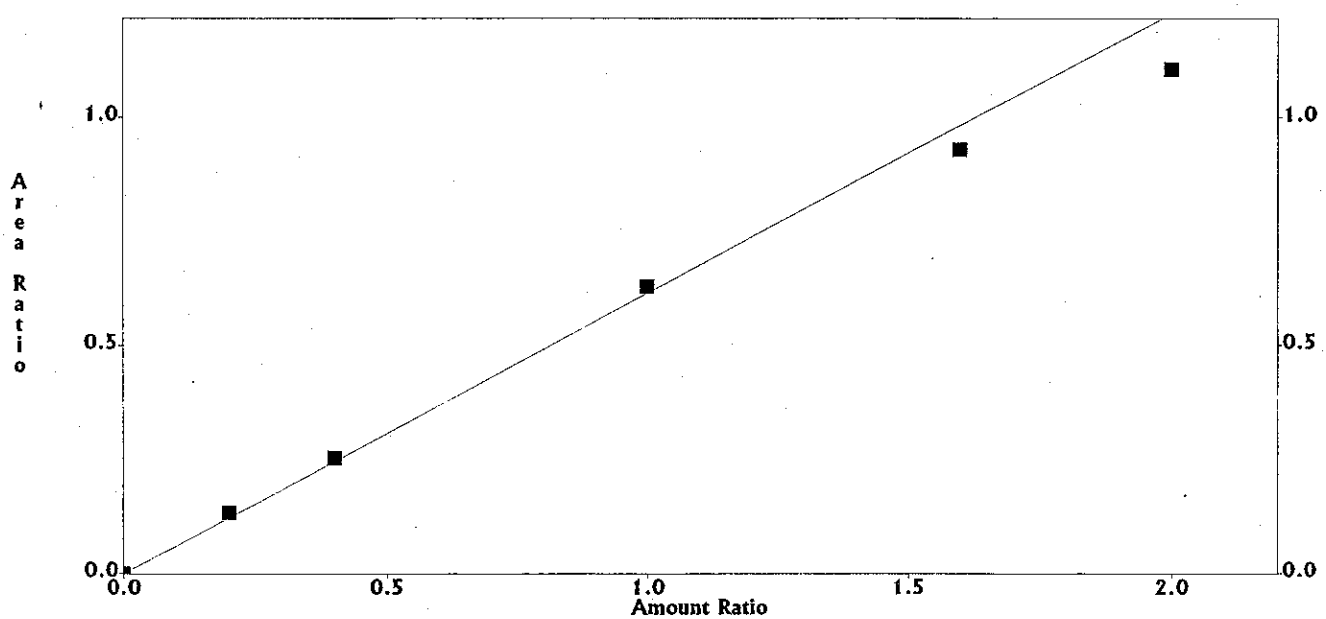
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1347	0.2	0.6734	0.1347							0
2	0.2537	0.4	0.6342	0.2537							0
3	0.6290	1	0.629	0.6290							0
4	0.9290	1.6	0.5806	0.9290							0
5	1.1077	2	0.5538	1.1077							0

Calib Flag: Replace

Average RF: 0.614194
RF StdDev: 0.0471523
RF %RSD: 7.677

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.614194

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 15 Dinoseb

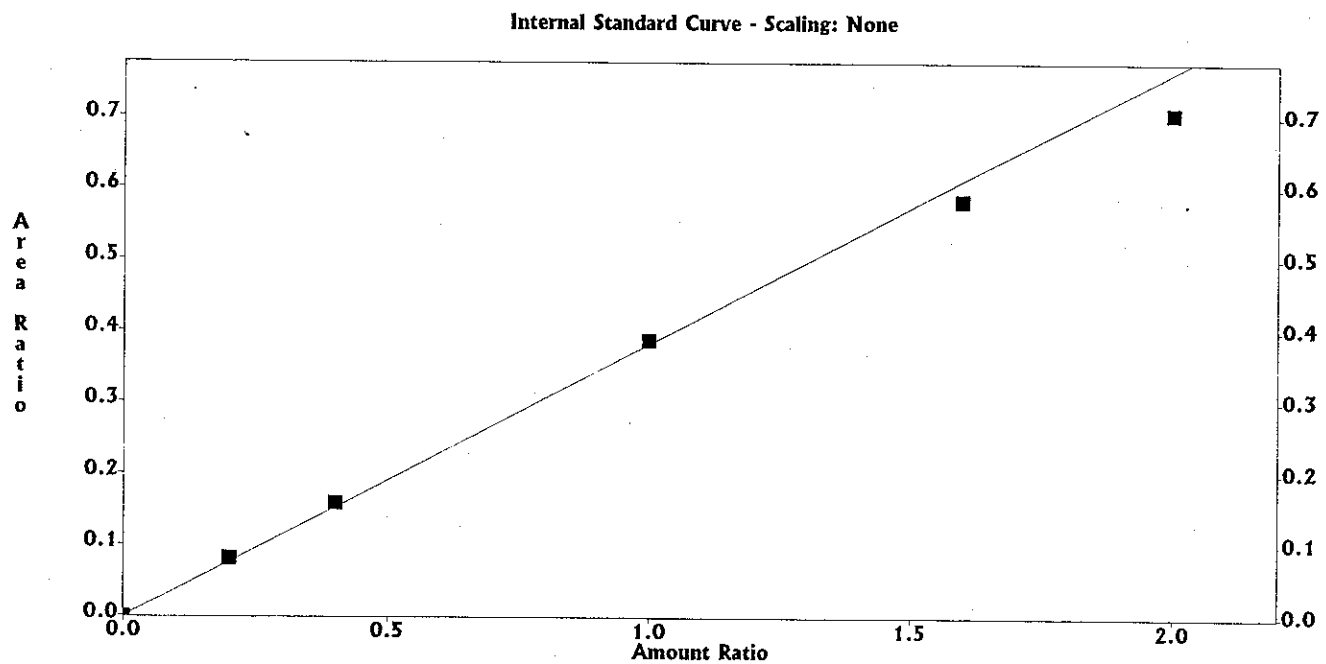
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0816	0.2	0.4081	0.0816							0
2	0.1590	0.4	0.3974	0.1590							0
3	0.3869	1	0.3869	0.3869							0
4	0.5826	1.6	0.3641	0.5826							0
5	0.7059	2	0.353	0.7059							0

Calib Flag: Replace

Average RF: 0.381891
RF StdDev: 0.0229416
RF %RSD: 6.007

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.381891



3929

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 16 2,4-DB

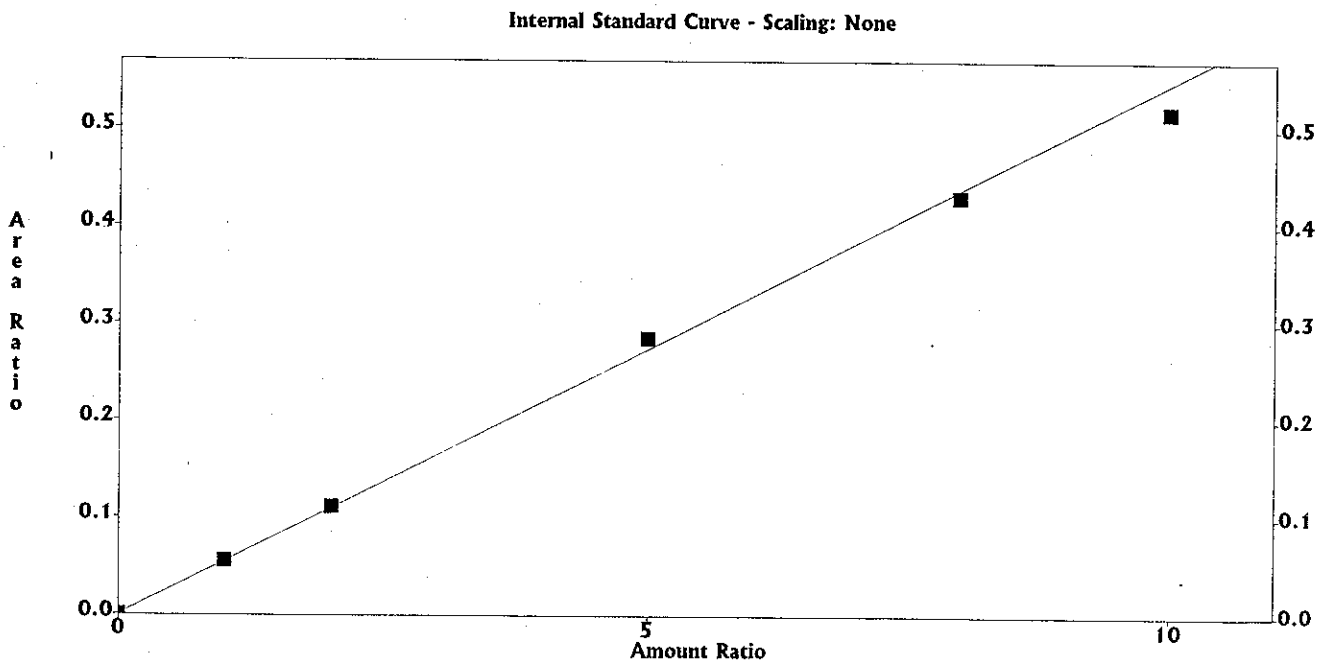
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0556	1	0.05563	0.0556							0
2	0.1111	2	0.05553	0.1111							0
3	0.2851	5	0.05702	0.2851							0
4	0.4306	8	0.05382	0.4306							0
5	0.5185	10	0.05185	0.5185							0

Calib Flag: Replace

Average RF: 0.0547703
RF StdDev: 0.00198819
RF %RSD: 3.630

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0547703



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 17 Bentazon

* - Replicate Not Used

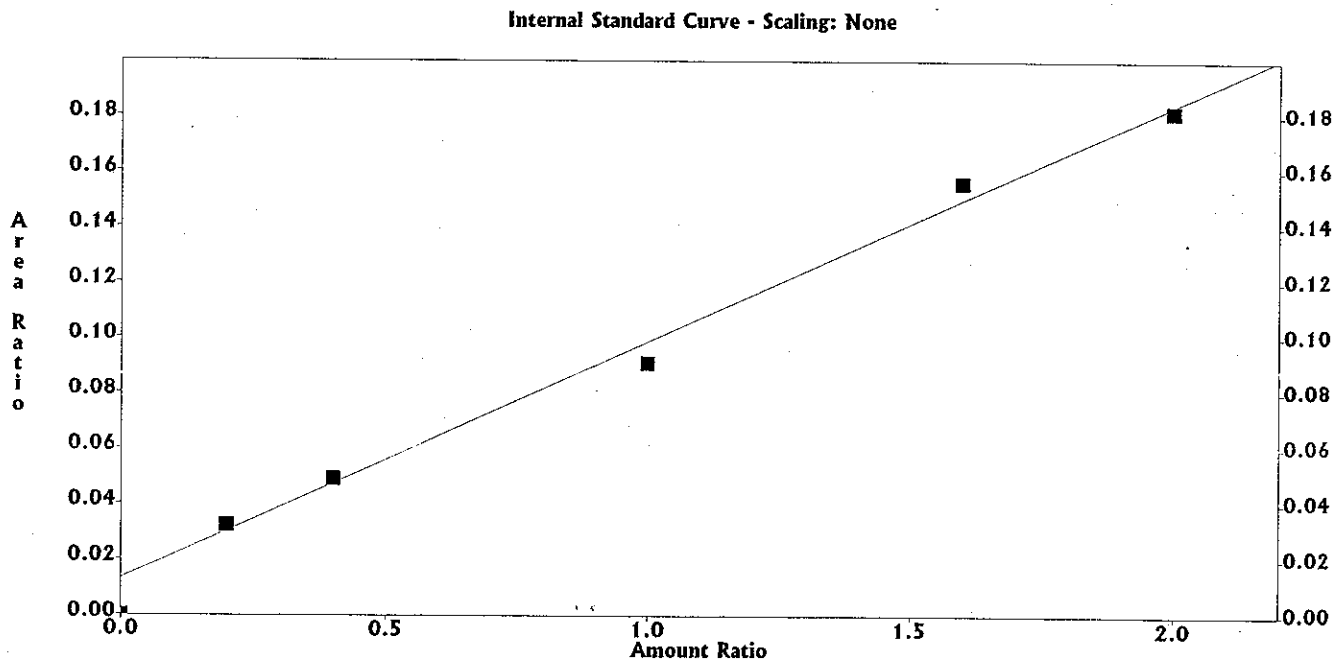
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0325	0.2	0.1626	0.0325							0
2	0.0491	0.4	0.1227	0.0491							0
3	0.0909	1	0.09095	0.0909							0
4	0.1559	1.6	0.09743	0.1559							0
5	0.1818	2	0.09089	0.1818							0

Calib Flag: Replace

Average RF: 0.112912
RF StdDev: 0.0307118
RF %RSD: 27.200

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 11.7184 x Area - 0.155776
R^2 = 0.993704



3931

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 18 Picloram

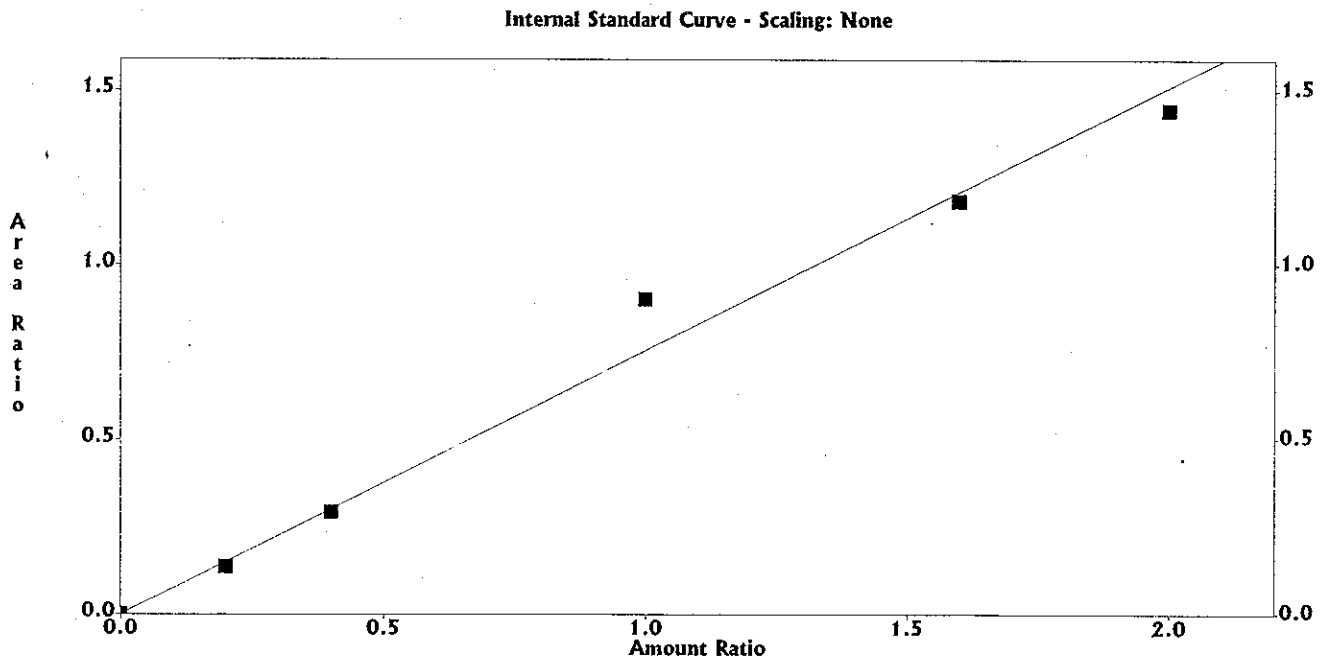
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1370	0.2	0.6848	0.1370							0
2	0.2916	0.4	0.729	0.2916							0
3	0.9031	1	0.9031	0.9031							0
4	1.1824	1.6	0.739	1.1824							0
5	1.4445	2	0.7223	1.4445							0

Calib Flag: Replace

Average RF: 0.755629
RF StdDev: 0.084943
RF %RSD: 11.241

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.755629



3932

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 19 DCPA

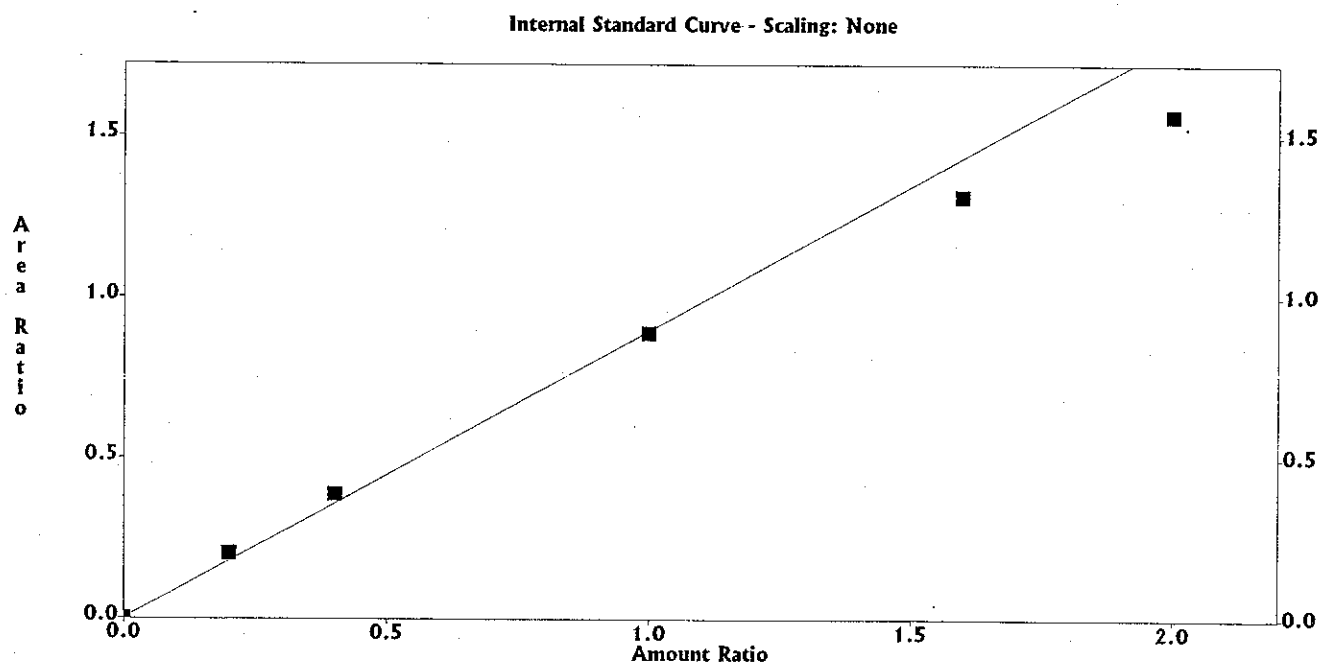
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.2038	0.2	1.02	0.2038							0
2	0.3883	0.4	0.9708	0.3883							0
3	0.8907	1	0.8907	0.8907							0
4	1.3153	1.6	0.8221	1.3153							0
5	1.5676	2	0.7838	1.5676							0

Calib Flag: Replace

Average RF: 0.897251
RF StdDev: 0.0984744
RF %RSD: 10.975

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.897251



3933

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:13
Channel : A
Peak : 20 Acifluorfen

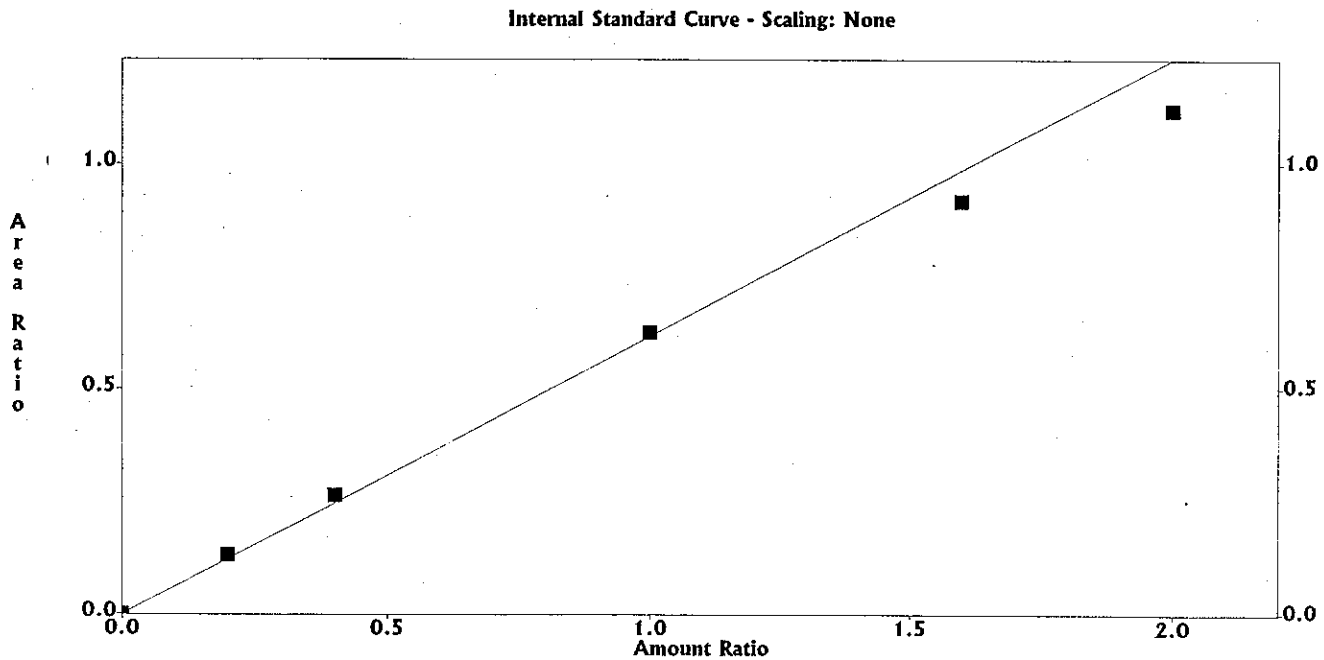
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1327	0.2	0.6636	0.1327							0
2	0.2646	0.4	0.6614	0.2646							0
3	0.6259	1	0.6259	0.6259							0
4	0.9184	1.6	0.574	0.9184							0
5	1.1207	2	0.5603	1.1207							0

Calib Flag: Replace

Average RF: 0.617056
RF StdDev: 0.048189
RF %RSD: 7.810

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.617056



3934

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 1 Dalapon

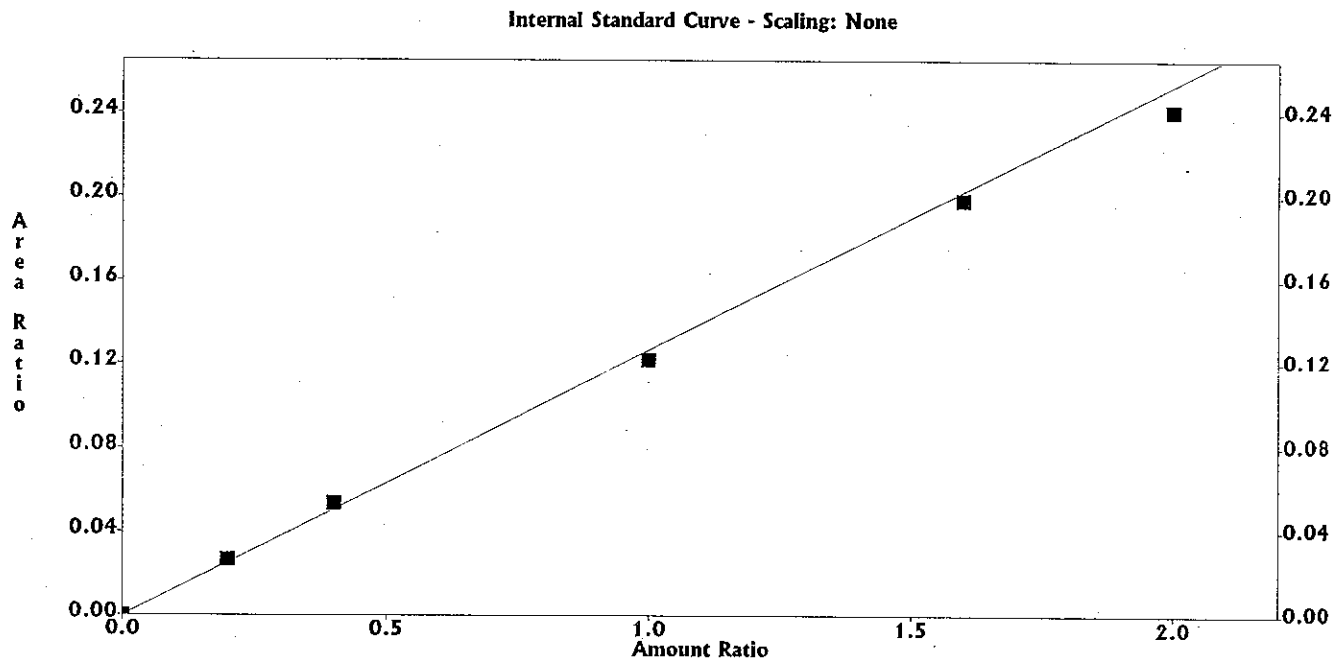
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0266	0.2	0.133	0.0266							0
2	0.0537	0.4	0.1341	0.0537							0
3	0.1219	1	0.1219	0.1219							0
4	0.1985	1.6	0.1241	0.1985							0
5	0.2413	2	0.1207	0.2413							0

Calib Flag: Replace

Average RF: 0.126755
RF StdDev: 0.00633203
RF %RSD: 4.995

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.126755



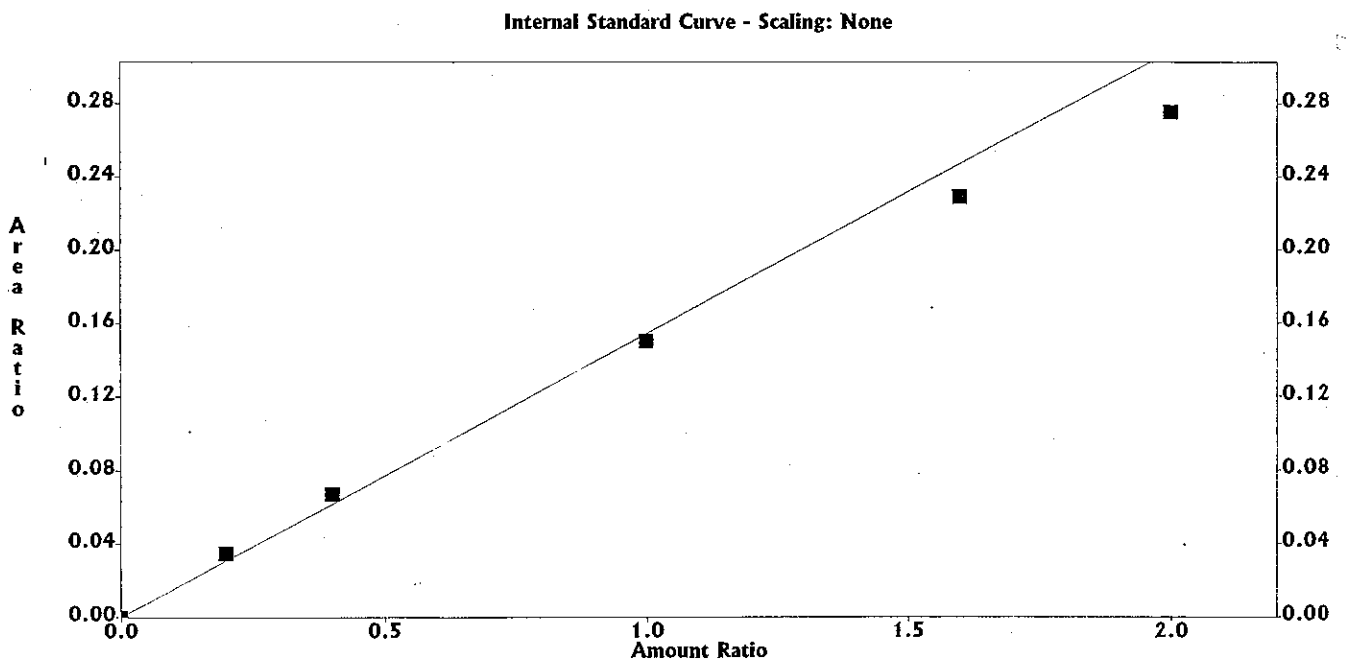
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0346	0.2	0.1729	0.0346							0
2	0.0672	0.4	0.1681	0.0672							0
3	0.1503	1	0.1503	0.1503							0
4	0.2291	1.6	0.1432	0.2291							0
5	0.2756	2	0.1378	0.2756							0

Calib Flag: Replace

Average RF: 0.154483
RF StdDev: 0.0154064
RF %RSD: 9.973

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.154483



3936

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 3 4-Nitrophenol

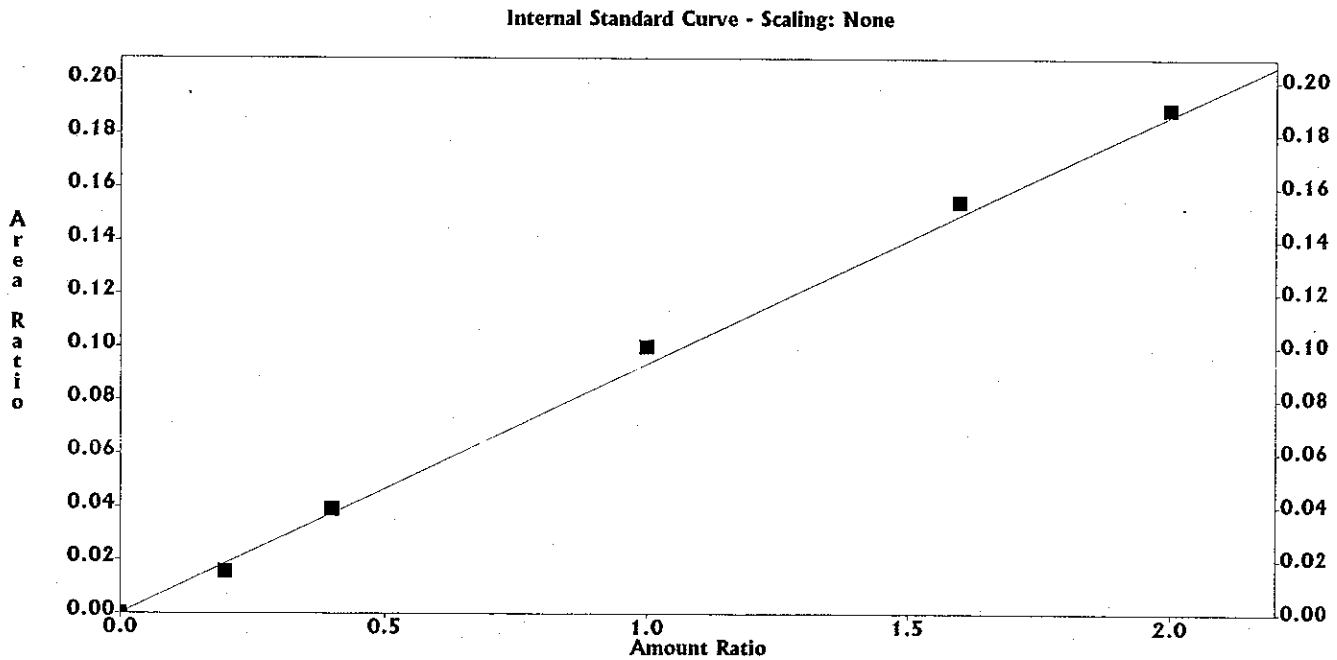
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0157	0.2	0.07825	0.0157							0
2	0.0391	0.4	0.09778	0.0391							0
3	0.1001	1	0.1001	0.1001							0
4	0.1547	1.6	0.09671	0.1547							0
5	0.1897	2	0.09484	0.1897							0

Calib Flag: Replace

Average RF: 0.0935353
RF StdDev: 0.00875176
RF %RSD: 9.357

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0935353



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 4 DCAA (surr)

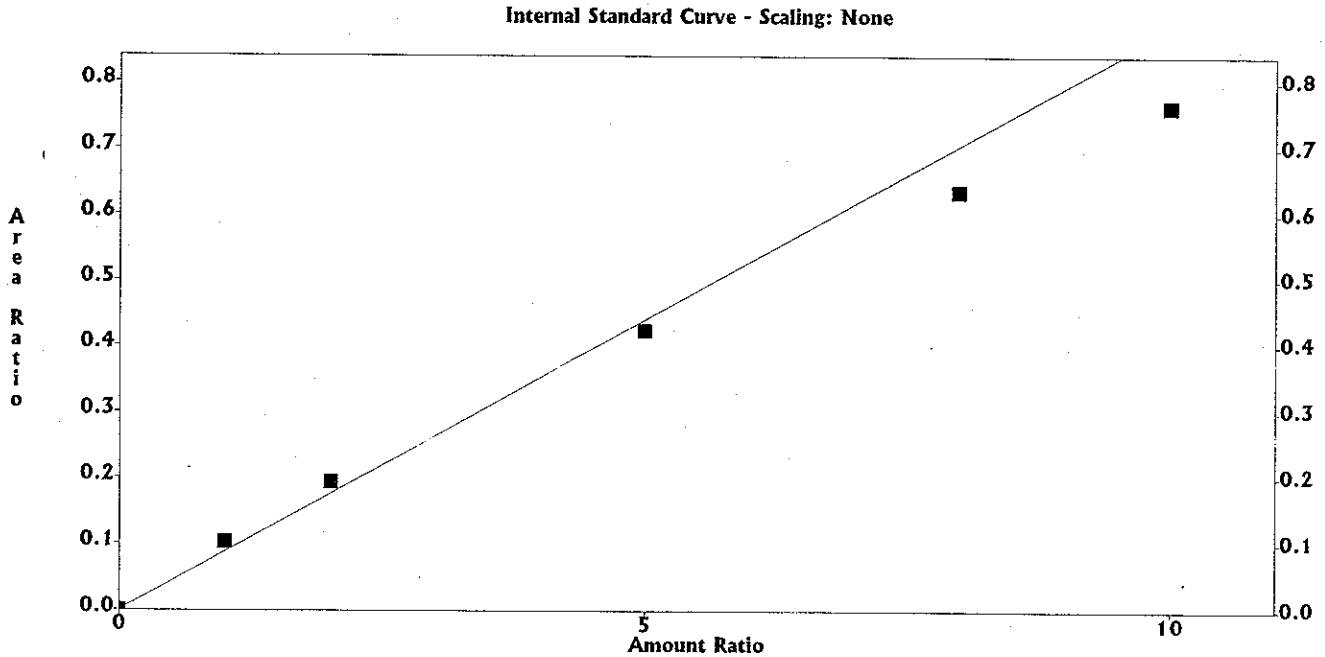
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1029	1	0.1029	0.1029							0
2	0.1942	2	0.0971	0.1942							0
3	0.4231	5	0.08462	0.4231							0
4	0.6352	8	0.0794	0.6352							0
5	0.7639	10	0.07639	0.7639							0

Calib Flag: Replace

Average RF: 0.0880927
RF StdDev: 0.0114711
RF %RSD: 13.022

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0880927



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 5 Dicamba

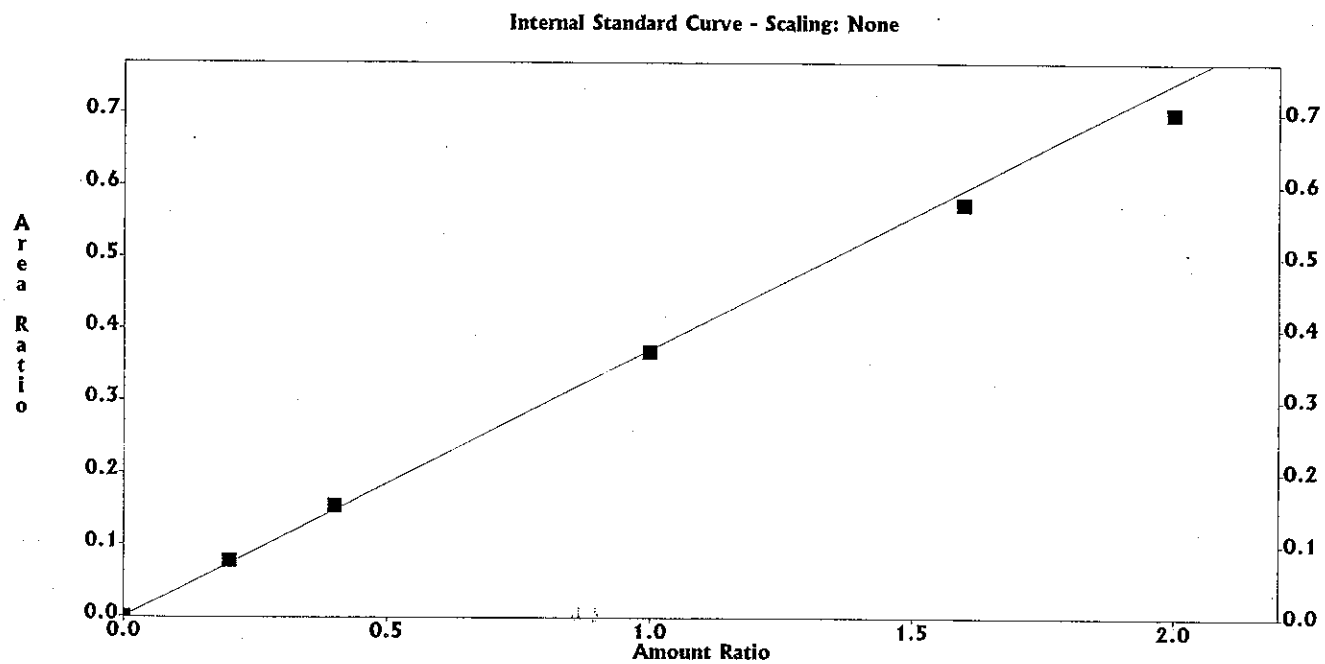
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0786	0.2	0.3931	0.0786							0
2	0.1549	0.4	0.3872	0.1549							0
3	0.3684	1	0.3684	0.3684							0
4	0.5744	1.6	0.359	0.5744							0
5	0.7006	2	0.3503	0.7006							0

Calib Flag: Replace

Average RF: 0.371609
RF StdDev: 0.0182154
RF %RSD: 4.902

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.371609



3939

Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 6 MCPP (ppm)

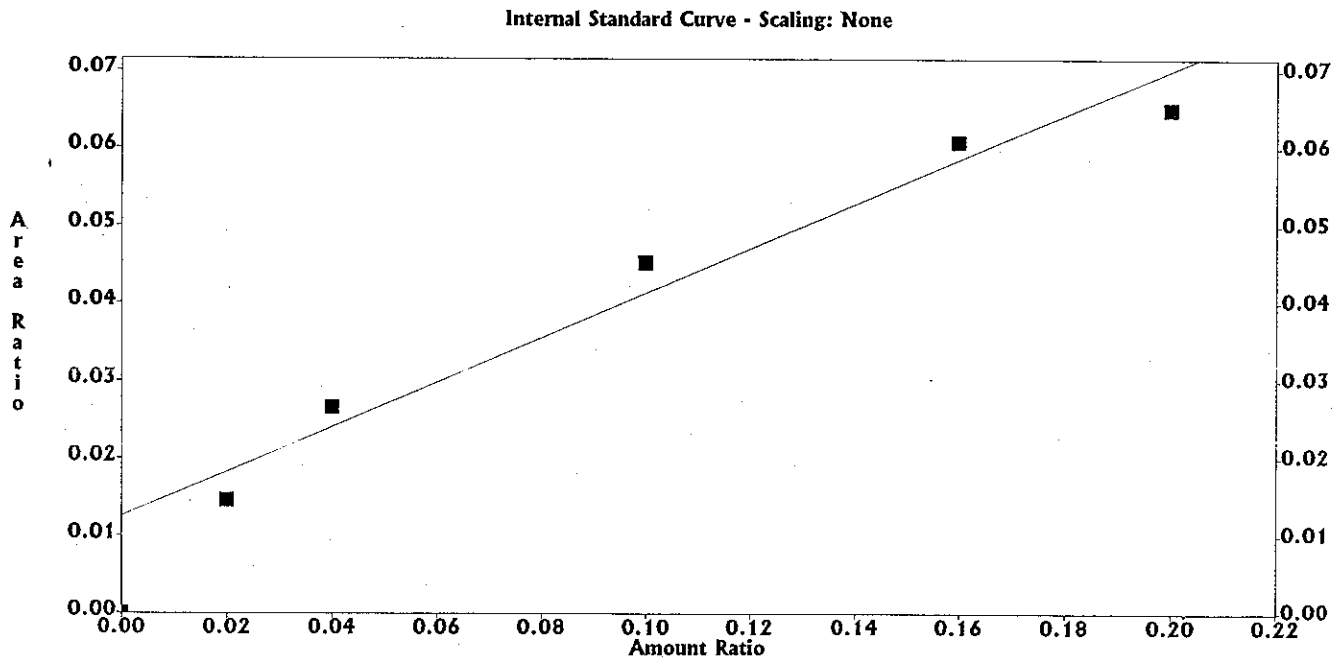
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0147	0.02	0.7329	0.0147							0
2	0.0266	0.04	0.6648	0.0266							0
3	0.0452	0.1	0.4524	0.0452							0
4	0.0608	0.16	0.38	0.0608							0
5	0.0651	0.2	0.3253	0.0651							0

Calib Flag: Replace

Average RF: 0.511087
RF StdDev: 0.17887
RF %RSD: 34.998

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 3.47761 x Area - 0.0436959
R^2 = 0.966498



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 7 DBOB (IS)

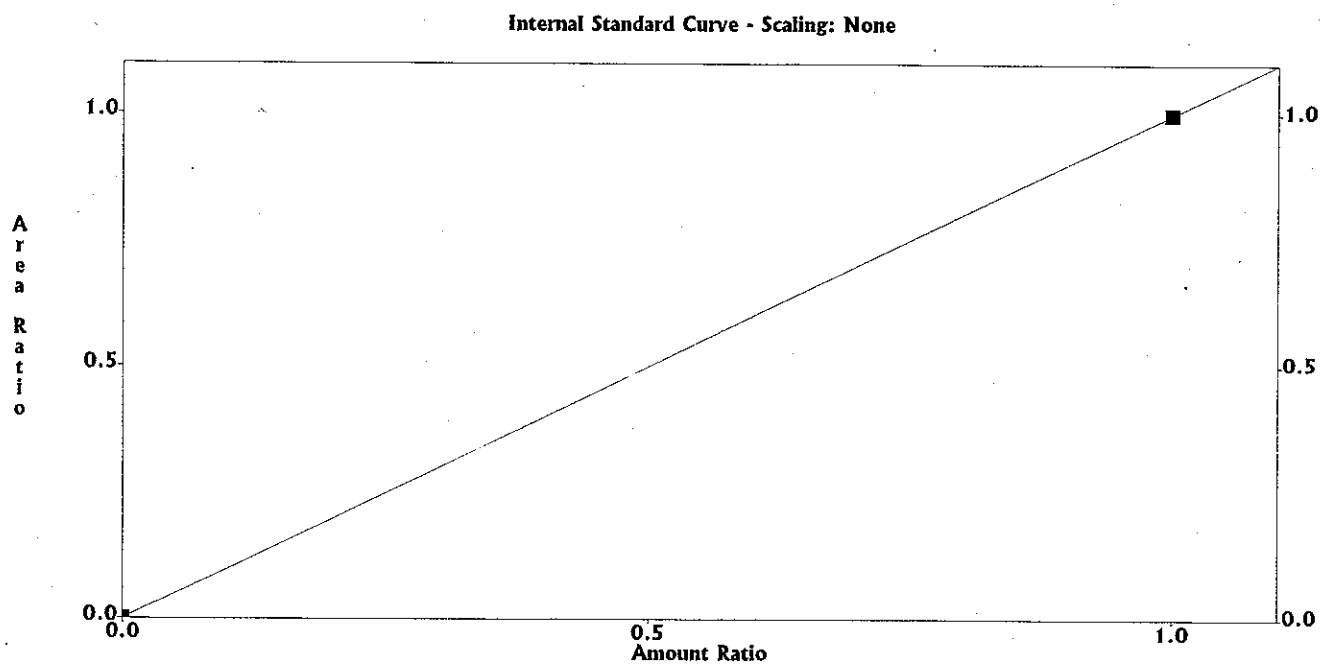
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 8 MCPA (ppm)

* - Replicate Not Used

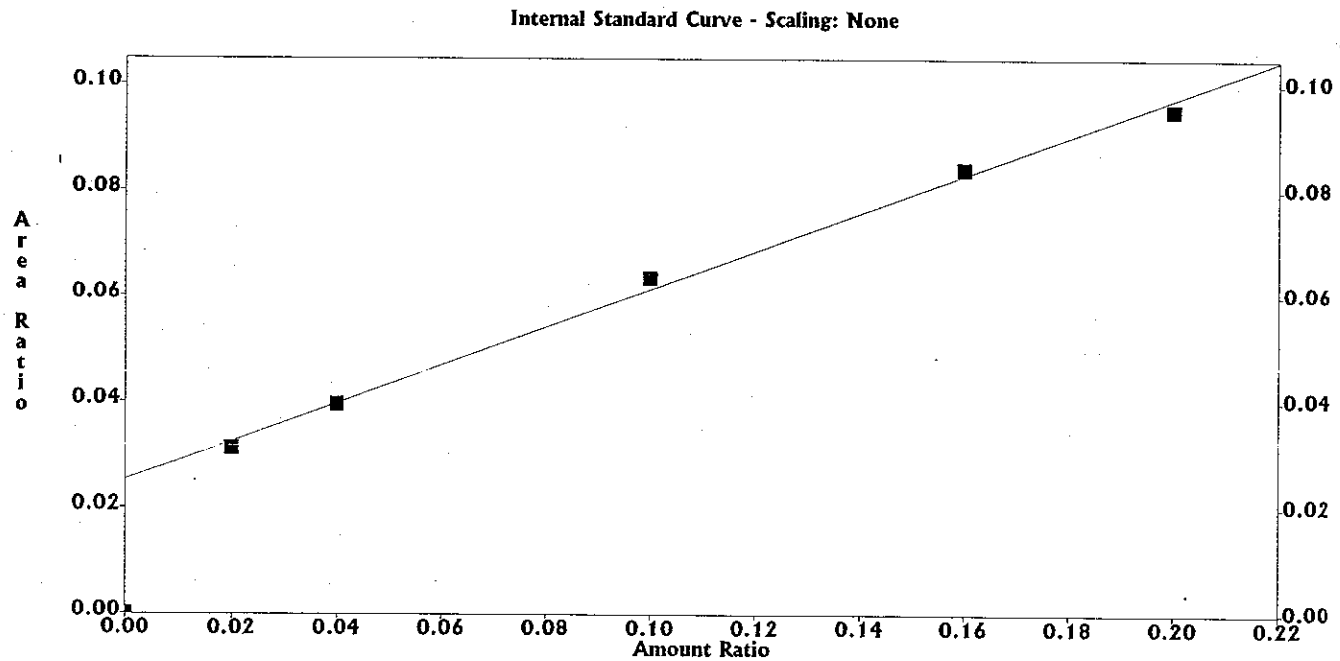
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0313	0.02	1.57	0.0313							0
2	0.0396	0.04	0.9902	0.0396							0
3	0.0635	0.1	0.6355	0.0635							0
4	0.0841	0.16	0.5258	0.0841							0
5	0.0954	0.2	0.4768	0.0954							0

Calib Flag: Replace

Average RF: 0.839008
RF StdDev: 0.453648
RF %RSD: 54.070

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.77463 x Area - 0.0702353
R^2 = 0.996153



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 9 Dichloroprop

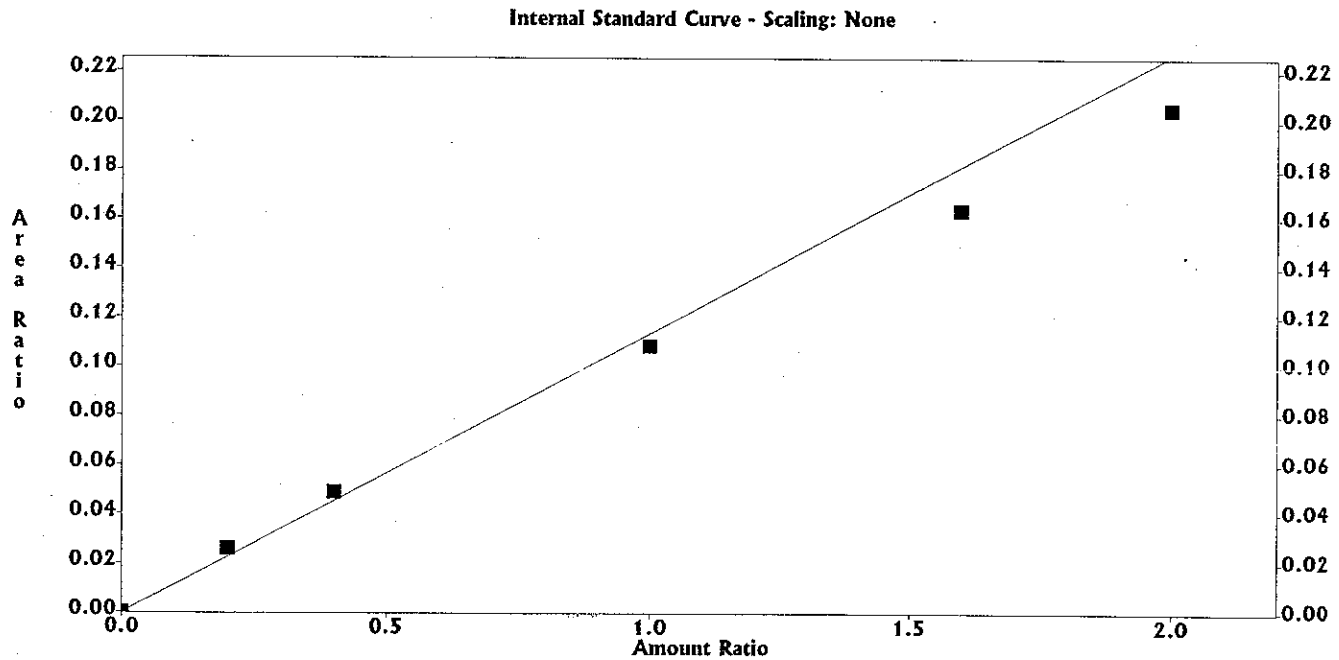
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.2	0.1315	0.0263							0
2	0.0491	0.4	0.1228	0.0491							0
3	0.1085	1	0.1085	0.1085							0
4	0.1636	1.6	0.1023	0.1636							0
5	0.2052	2	0.1026	0.2052							0

Calib Flag: Replace

Average RF: 0.113524
RF StdDev: 0.0130642
RF %RSD: 11.508

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.113524



3943

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 10 2,4-D (m)

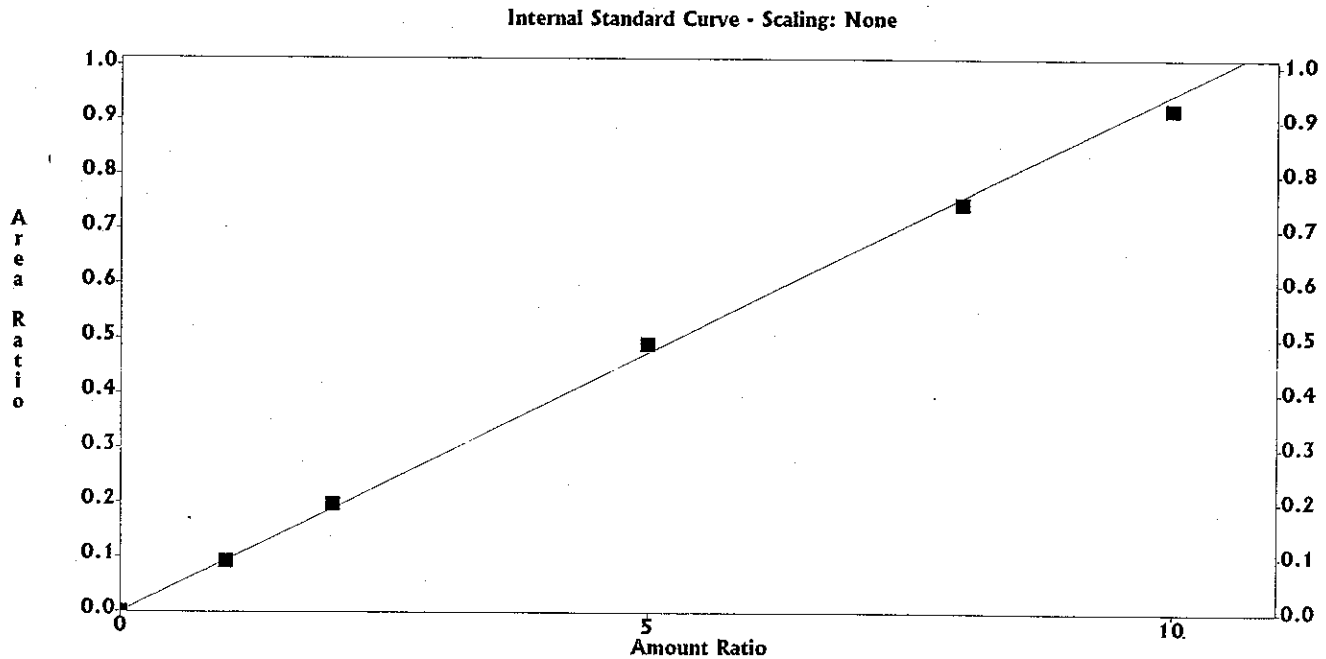
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0922	1	0.09218	0.0922							0
2	0.1978	2	0.09891	0.1978							0
3	0.4906	5	0.09811	0.4906							0
4	0.7474	8	0.09342	0.7474							0
5	0.9221	10	0.09221	0.9221							0

Calib Flag: Replace

Average RF: 0.0949667
RF StdDev: 0.00328904
RF %RSD: 3.463

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0949667



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 11 Pentachlorphenol

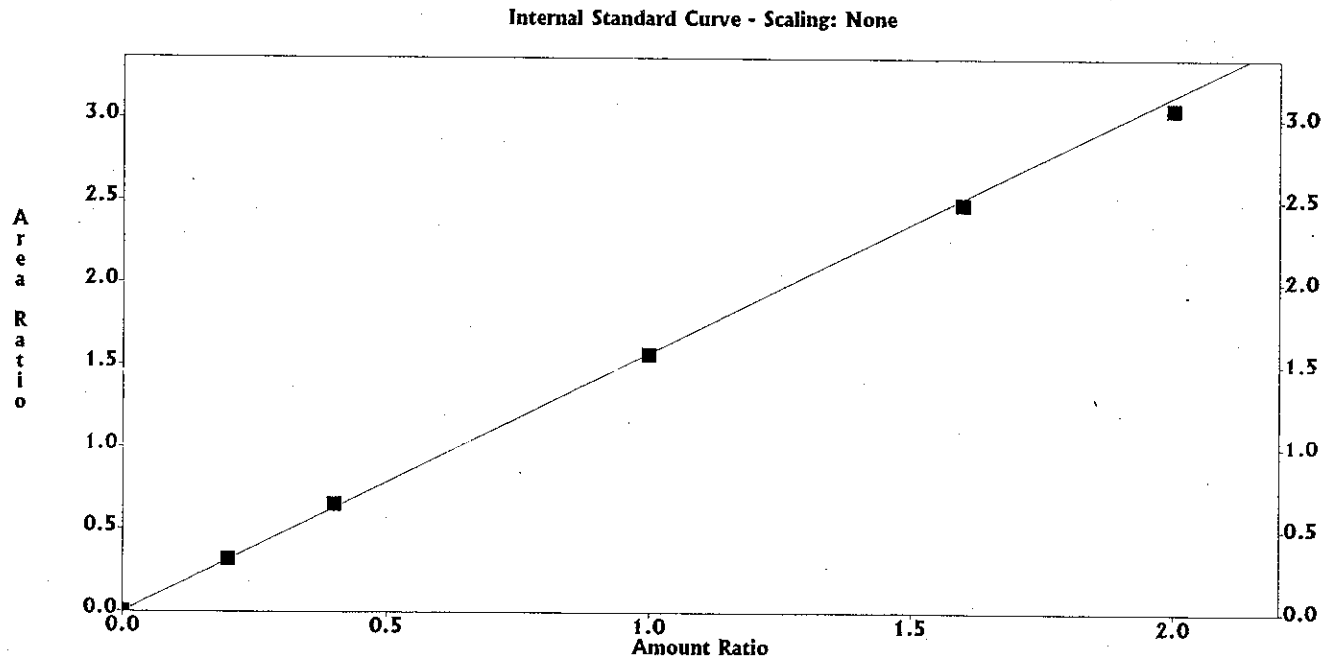
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.3178	0.2	1.59	0.3178							0
2	0.6516	0.4	1.63	0.6516							0
3	1.5654	1	1.57	1.5654							0
4	2.4791	1.6	1.55	2.4791							0
5	3.0630	2	1.53	3.0630							0

Calib Flag: Replace

Average RF: 1.57289
RF StdDev: 0.037824
RF %RSD: 2.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.57289



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 12 Silvex (m)

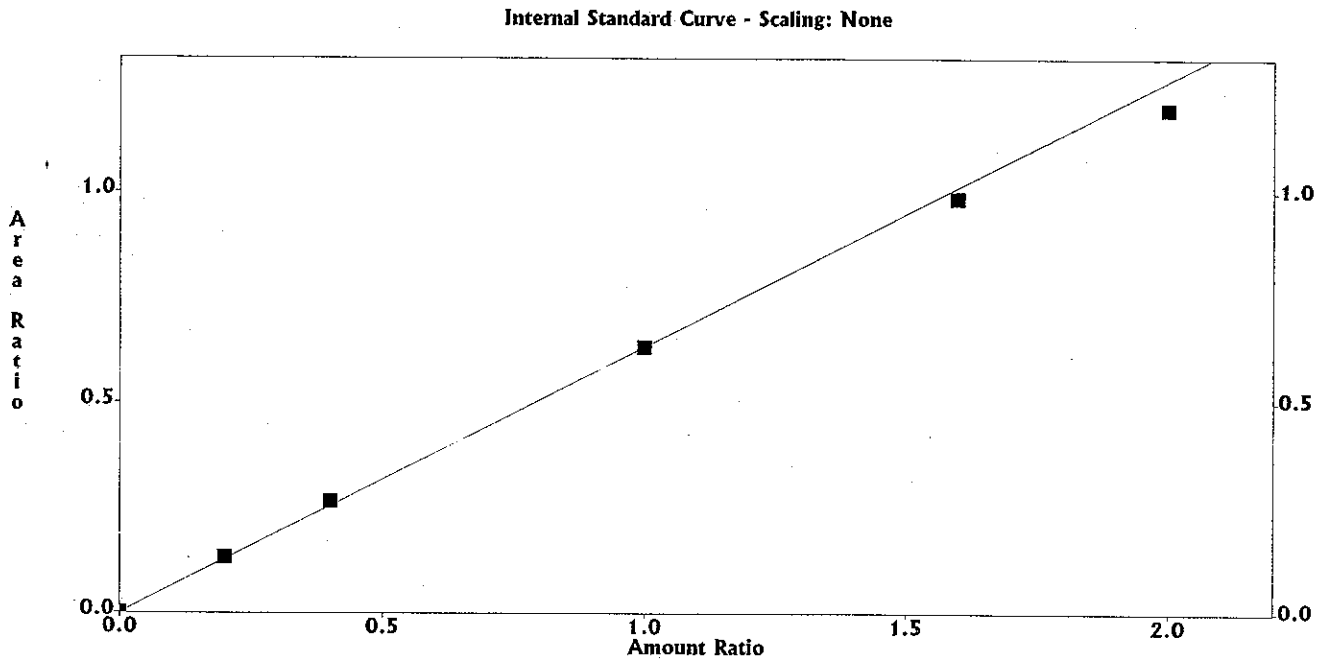
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1311	0.2	0.6555	0.1311							0
2	0.2647	0.4	0.6617	0.2647							0
3	0.6323	1	0.6323	0.6323							0
4	0.9858	1.6	0.6161	0.9858							0
5	1.1983	2	0.5991	1.1983							0

Calib Flag: Replace

Average RF: 0.632949
RF StdDev: 0.0262769
RF %RSD: 4.152

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.632949



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:17
Channel : B
Peak : 13 2,4,5-T (m)

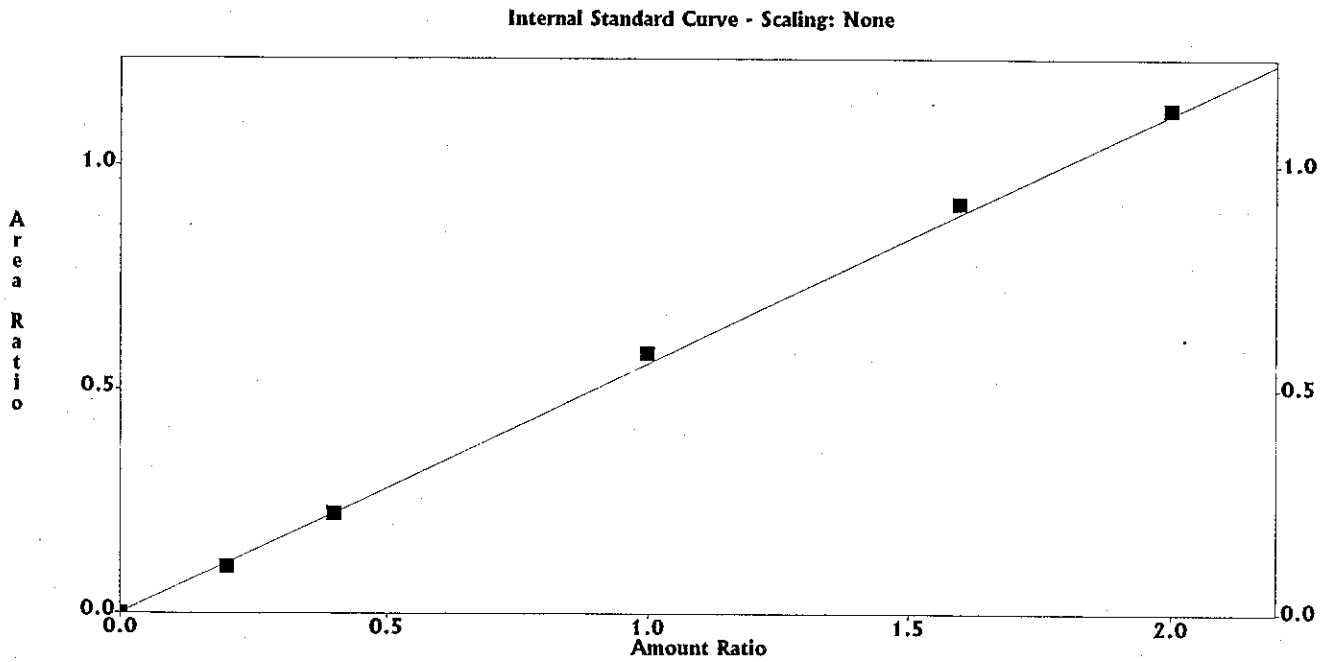
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1028	0.2	0.5141	0.1028							0
2	0.2225	0.4	0.5562	0.2225							0
3	0.5813	1	0.5813	0.5813							0
4	0.9162	1.6	0.5727	0.9162							0
5	1.1270	2	0.5635	1.1270							0

Calib Flag: Replace

Average RF: 0.557553
RF StdDev: 0.0260813
RF %RSD: 4.678

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.557553



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 14 Dinoseb

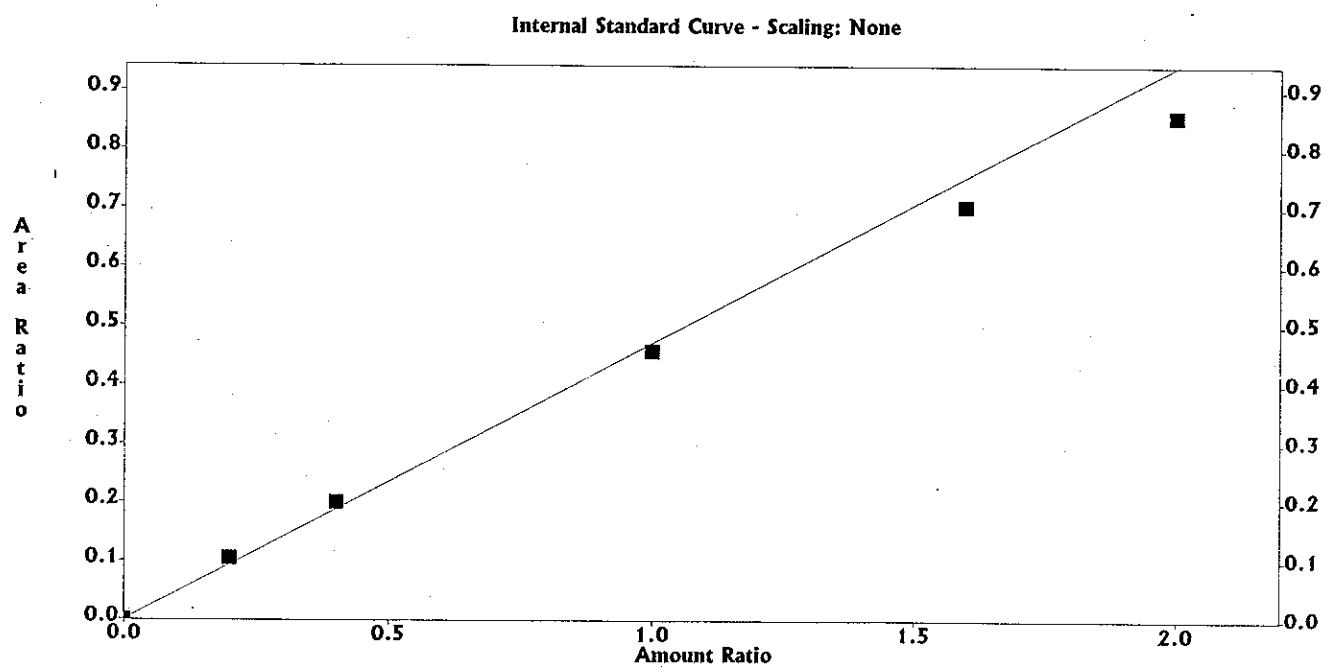
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1055	0.2	0.5275	0.1055							0
2	0.2010	0.4	0.5026	0.2010							0
3	0.4576	1	0.4576	0.4576							0
4	0.7041	1.6	0.4401	0.7041							0
5	0.8576	2	0.4288	0.8576							0

Calib Flag: Replace

Average RF: 0.471303
RF StdDev: 0.0421481
RF %RSD: 8.943

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.471303



3948

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 15 Chloramben

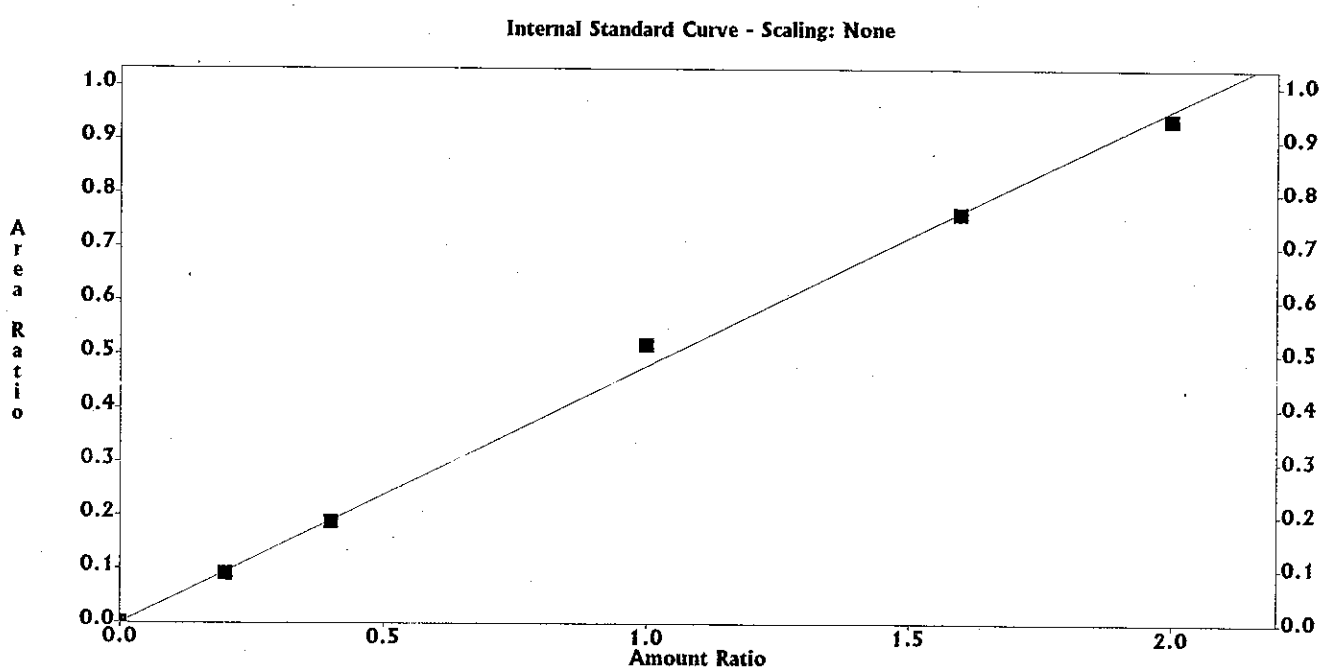
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0920	0.2	0.4599	0.0920							0
2	0.1879	0.4	0.4697	0.1879							0
3	0.5181	1	0.5181	0.5181							0
4	0.7622	1.6	0.4764	0.7622							0
5	0.9395	2	0.4698	0.9395							0

Calib Flag: Replace

Average RF: 0.478771
RF StdDev: 0.0227534
RF %RSD: 4.752

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.478771



3949

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 16 2,4-DB

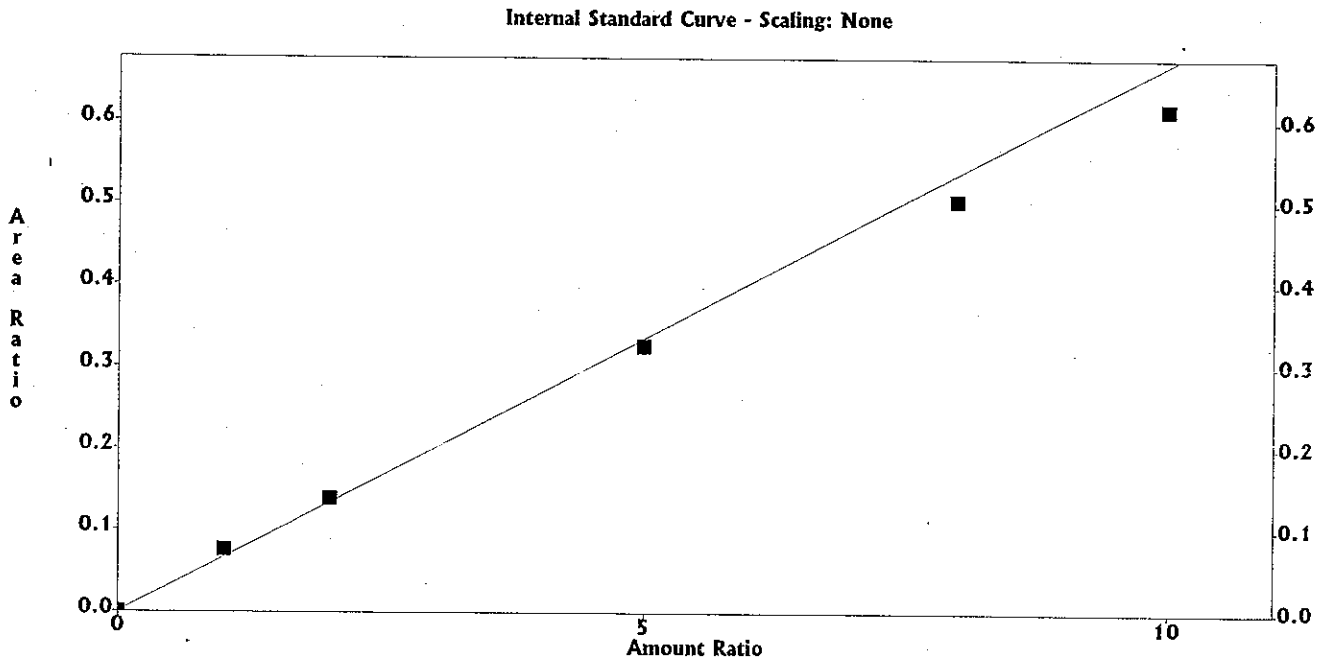
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0762	1	0.0762	0.0762							0
2	0.1389	2	0.06947	0.1389							0
3	0.3259	5	0.06519	0.3259							0
4	0.5038	8	0.06297	0.5038							0
5	0.6163	10	0.06163	0.6163							0

Calib Flag: Replace

Average RF: 0.0670914
RF StdDev: 0.00589656
RF %RSD: 8.789

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0670914



Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 17 Bentazon

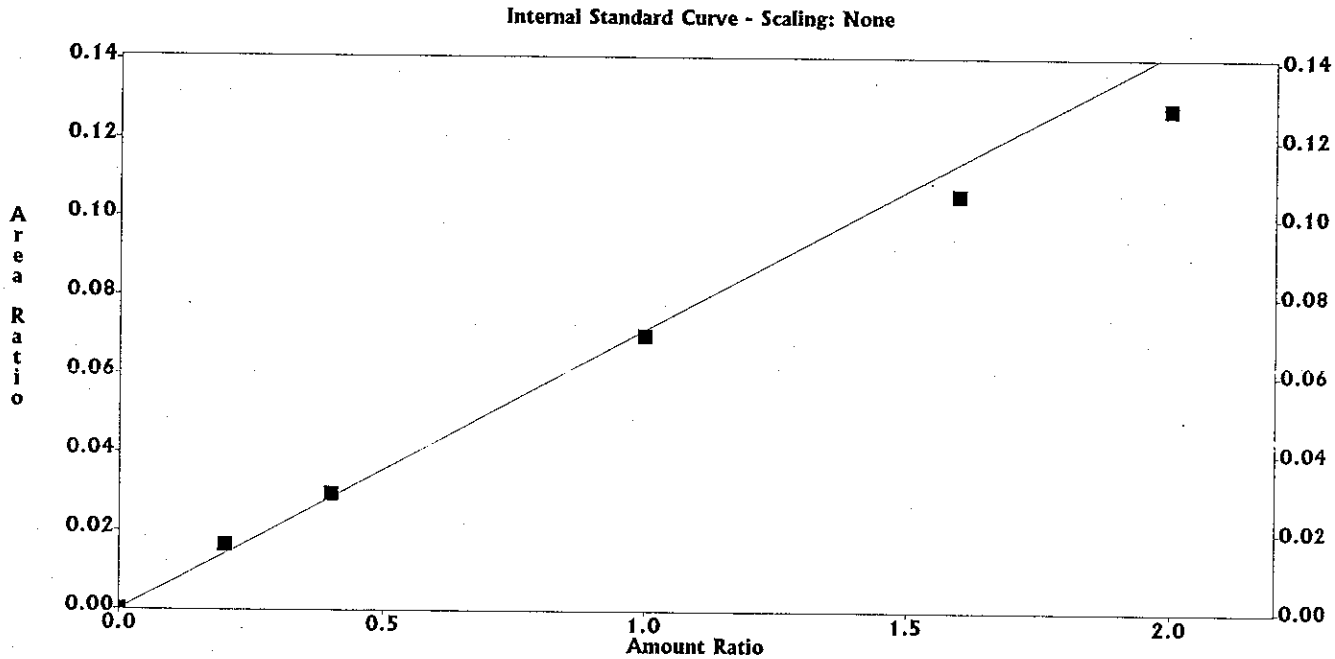
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0166	0.2	0.08284	0.0166							0
2	0.0296	0.4	0.0739	0.0296							0
3	0.0699	1	0.06991	0.0699							0
4	0.1059	1.6	0.0662	0.1059							0
5	0.1282	2	0.06409	0.1282							0

Calib Flag: Replace

Average RF: 0.071389
RF StdDev: 0.00741344
RF %RSD: 10.385

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.071389



3951

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 18 DCPA

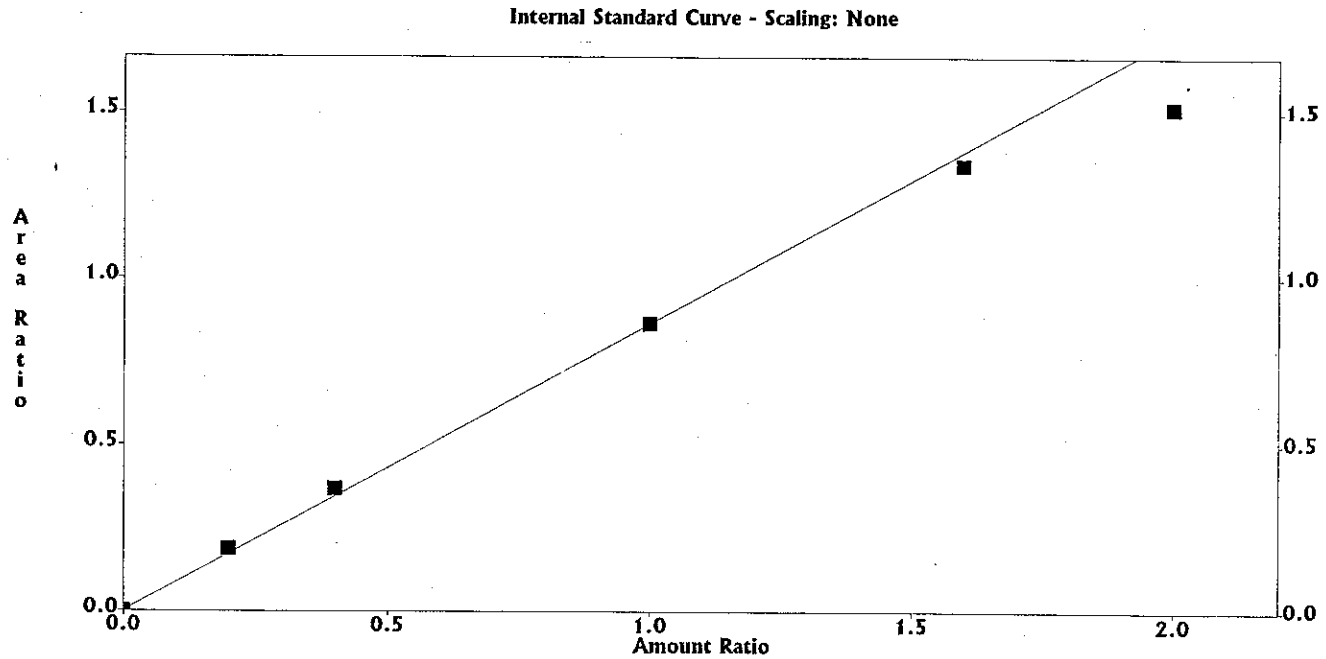
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1881	0.2	0.9406	0.1881							0
2	0.3687	0.4	0.9217	0.3687							0
3	0.8641	1	0.8641	0.8641							0
4	1.3426	1.6	0.8391	1.3426							0
5	1.5151	2	0.7575	1.5151							0

Calib Flag: Replace

Average RF: 0.864605
RF StdDev: 0.0727083
RF %RSD: 8.409

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.864605



3952

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 19 Picloram

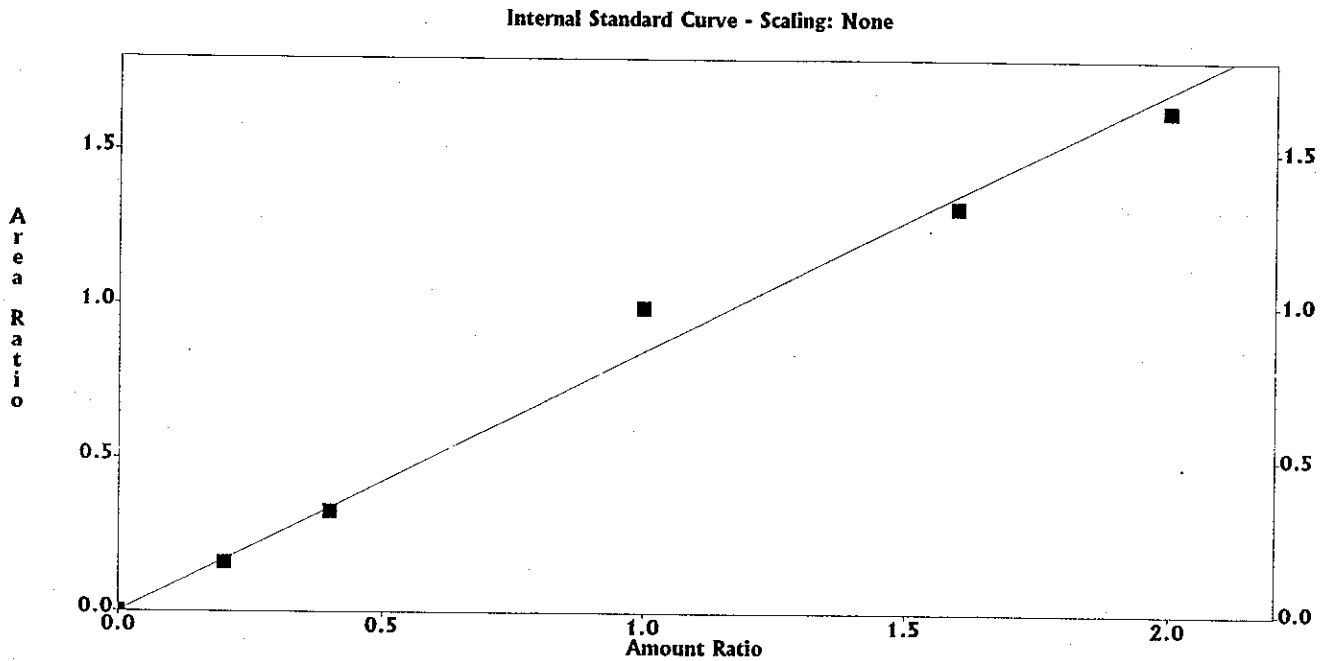
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1591	0.2	0.7956	0.1591							0
2	0.3282	0.4	0.8205	0.3282							0
3	0.9903	1	0.9903	0.9903							0
4	1.3181	1.6	0.8238	1.3181							0
5	1.6370	2	0.8185	1.6370							0

Calib Flag: Replace

Average RF: 0.849758
RF StdDev: 0.0793752
RF %RSD: 9.341

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.849758



3953

Method : c:\ezchrom\methods\8151-066.t00
Printed : Jan 12, 2005 14:28:18
Channel : B
Peak : 20 Acifluorfen

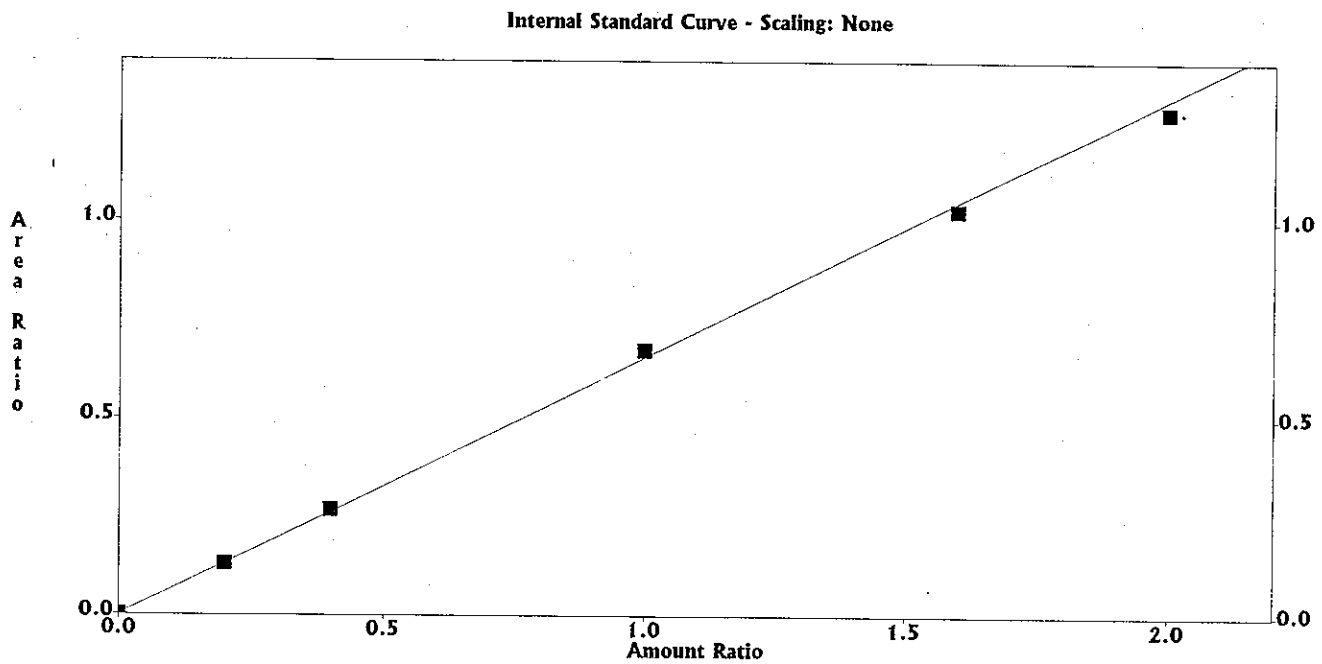
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1305	0.2	0.6523	0.1305							0
2	0.2690	0.4	0.6725	0.2690							0
3	0.6737	1	0.6737	0.6737							0
4	1.0284	1.6	0.6427	1.0284							0
5	1.2785	2	0.6393	1.2785							0

Calib Flag: Replace

Average RF: 0.656098
RF StdDev: 0.0162456
RF %RSD: 2.476

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.656098



3954

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151t066.icv
ID: icv gc16938 -- Dec 09, 2004 01:31:38
Printed: Jan 12, 2005 15:45:49

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	252.675	1.070	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.466	3.014	15.000	Passed
3 4-Nitrophenol	250.000	242.835	2.866	15.000	Passed
4 DCAA(Surr)	1200.000	1204.784	0.399	15.000	Passed
5 Dicamba	250.000	243.501	2.599	15.000	Passed
6 MCPP(ppm)	25.000	31.003	24.012	15.000	Failed
7 MCPA(PPm)	25.000	28.951	15.802	15.000	Failed
8 Dichloroprop	250.000	246.642	1.343	15.000	Passed
9 2,4-D (m)	1250.000	1220.539	2.357	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	246.344	1.463	15.000	Passed
12 Silvex (m)	250.000	250.565	0.226	15.000	Passed
13 Chloramben	250.000	230.877	7.649	15.000	Passed
14 2,4,5-T (m)	250.000	251.722	0.689	15.000	Passed
15 Dinoseb	250.000	246.840	1.264	15.000	Passed
16 2,4-DB	1250.000	1280.498	2.440	15.000	Passed
17 Bentazon	250.000	240.388	3.845	15.000	Passed
18 Picloram	250.000	267.119	6.847	15.000	Passed
19 DCPA	250.000	246.395	1.442	15.000	Passed
20 Acifluorfen	250.000	241.035	3.586	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	247.140	1.144	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.628	2.149	15.000	Passed
3 4-Nitrophenol	250.000	262.012	4.805	15.000	Passed
4 DCAA (surr)	1200.000	1203.338	0.278	15.000	Passed
5 Dicamba	250.000	246.061	1.576	15.000	Passed
6 MCPP (ppm)	25.000	25.109	0.437	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	27.701	10.804	15.000	Passed
9 Dichloroprop	250.000	238.860	4.456	15.000	Passed
10 2,4-D (m)	1250.000	1259.188	0.735	15.000	Passed
11 Pentachlorphenol	250.000	245.791	1.684	15.000	Passed
12 Silvex (m)	250.000	249.018	0.393	15.000	Passed
13 2,4,5-T (m)	250.000	253.233	1.293	15.000	Passed
14 Dinoseb	250.000	236.735	5.306	15.000	Passed
15 Chloramben	250.000	249.967	0.013	15.000	Passed

16 2,4-DB	1250.000	1130.106	9.591	15.000	Passed
17 Bentazon	250.000	237.092	5.163	15.000	Passed
18 DCPA	250.000	248.066	0.774	15.000	Passed
19 Picloram	250.000	261.930	4.772	15.000	Passed
20 Acifluorfen	250.000	237.918	4.833	15.000	Passed

Signature _____

Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:29
Channel : A
Peak : 6 MCPP(ppm)

* - Replicate Not Used

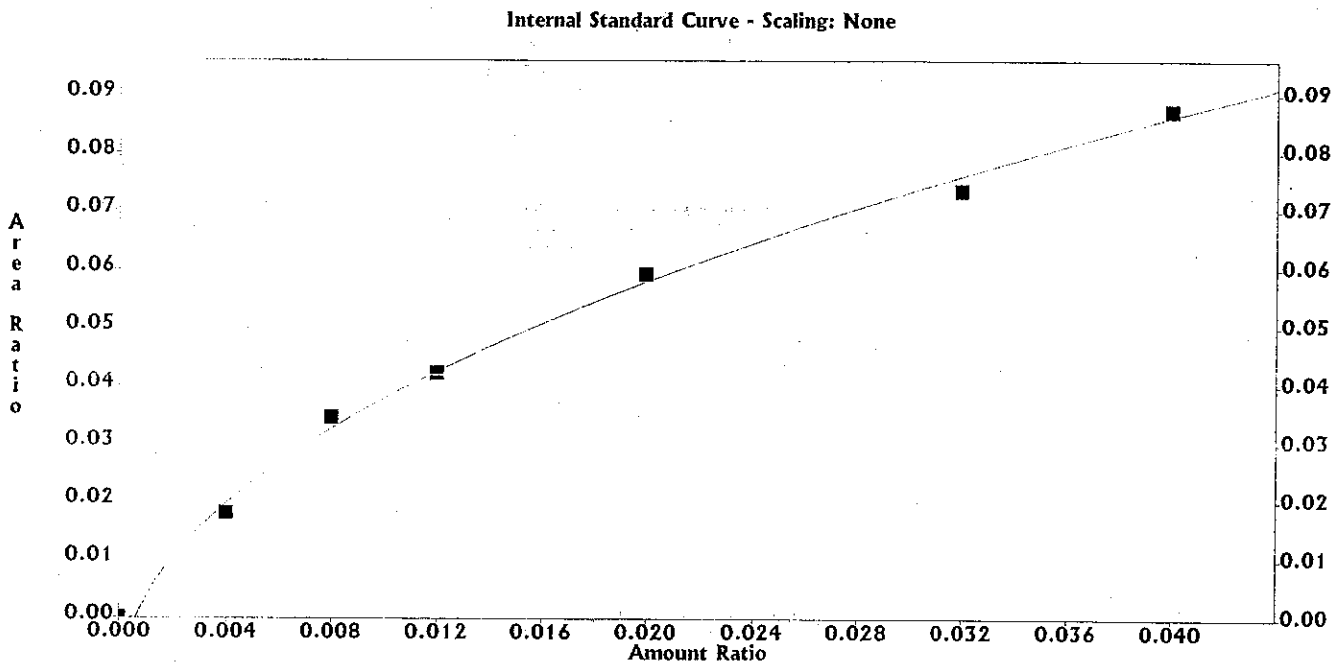
	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0180	0.004	4.51	0.0180							0
2	0.0346	0.008	4.32	0.0346							0
3	0.0422	0.012	3.51	0.0422							0
4	0.0593	0.02	2.96	0.0593							0
5	0.0735	0.032	2.30	0.0735							0
6	0.0873	0.04	2.18	0.0873							0

Calib Flag: Replace

Average RF: 3.29747
RF StdDev: 0.990382
RF %RSD: 30.035

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Quadratic Fit: Amount = 4.30279 x Area^2 + 0.0848303 x Area + 0.000649777
R^2 = 0.994433



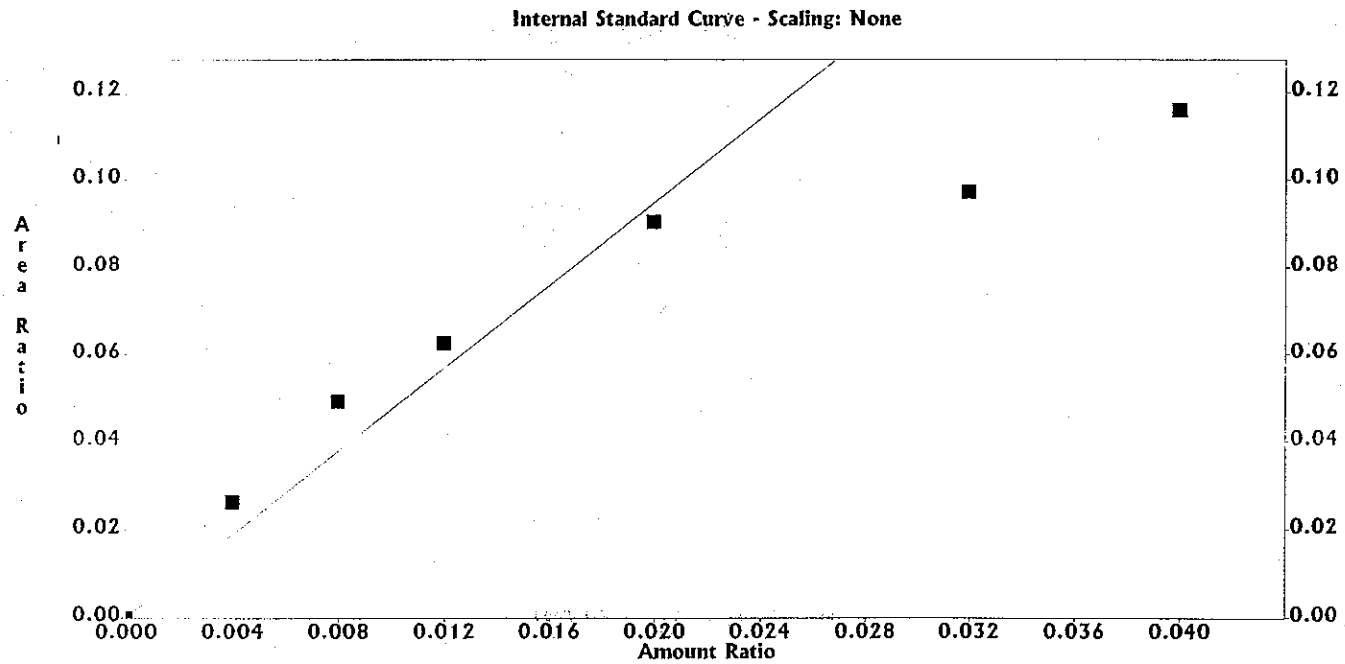
Method : c:\ezchrom\methods\8151-066.t0a * - Replicate Not Used
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 7 MCPA(PPm)

1	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.004	6.58	0.0263							0
2	0.0493	0.008	6.16	0.0493							0
3	0.0626	0.012	5.22	0.0626							0
4	0.0904	0.02	4.52	0.0904							0
5	0.0972	0.032	3.04	0.0972							0
6	0.1160	0.04	2.90	0.1160							0

Calib Flag: Replace

Average RF: 4.736
RF StdDev: 1.54539
RF %RSD: 32.631

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 4.736



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 10 DBOB (IS)

* - Replicate Not Used

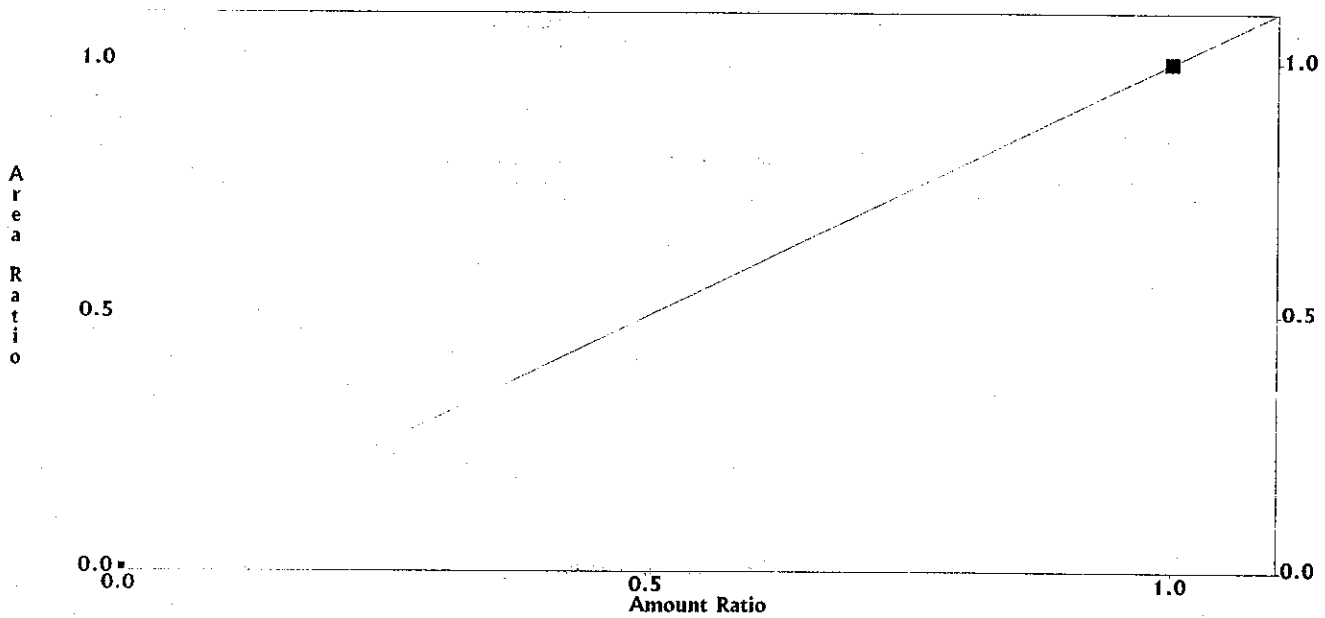
1	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:36
Channel : B
Peak : 6 MCPP (ppm)

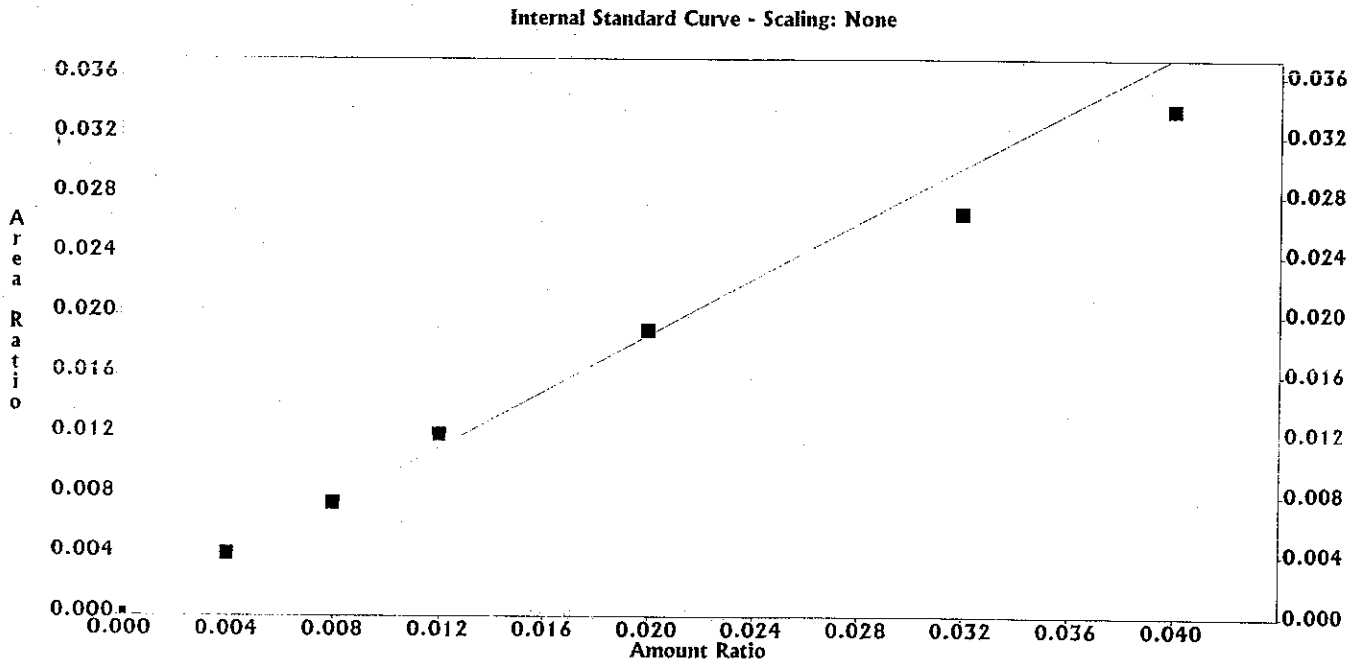
* - Replicate Not Used

	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	0.004	1.03	0.0041							0
2	0.0075	0.008	0.9392	0.0075							0
3	0.0121	0.012	1.01	0.0121							0
4	0.0190	0.02	0.9509	0.0190							0
5	0.0268	0.032	0.8386	0.0268							0
6	0.0338	0.04	0.8461	0.0338							0

Calib Flag: Replace

Average RF: 0.934563
RF StdDev: 0.0786286
RF %RSD: 8.413

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.934563



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:36
Channel : B
Peak : 7 DBOB (IS)

* - Replicate Not Used

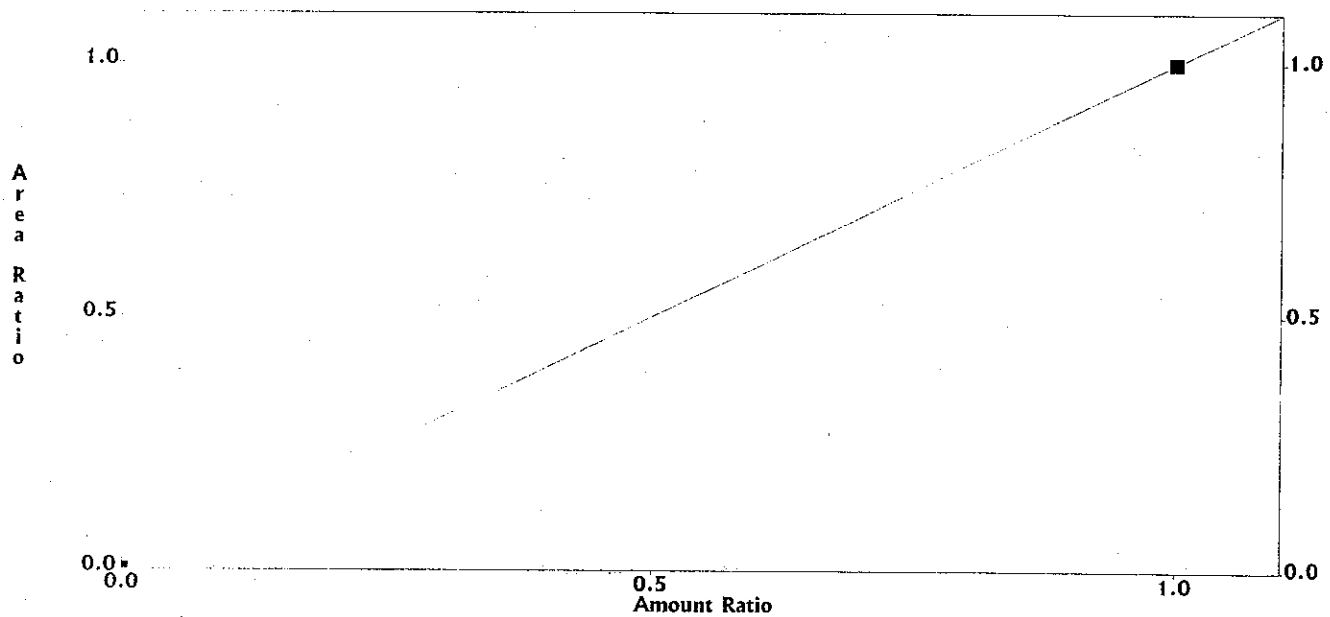
	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



3961

Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:37
Channel : B
Peak : 8 MCPA (ppm)

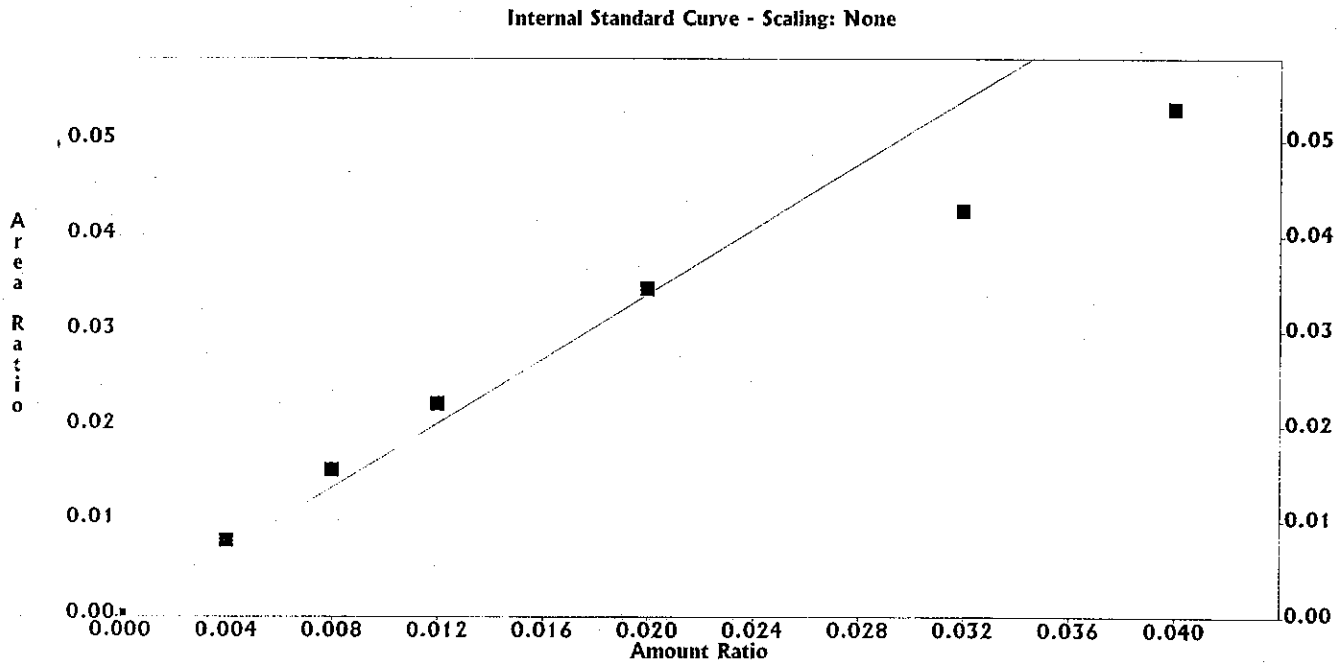
* - Replicate Not Used

I	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0079	0.004	1.98	0.0079							0
2	0.0154	0.008	1.93	0.0154							0
3	0.0225	0.012	1.87	0.0225							0
4	0.0345	0.02	1.73	0.0345							0
5	0.0427	0.032	1.33	0.0427							0
6	0.0534	0.04	1.34	0.0534							0

Calib Flag: Replace

Average RF: 1.69704
RF StdDev: 0.293414
RF %RSD: 17.290

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.69704



3962

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151ta66.icv
ID: icv gc17096 -- Dec 08, 2004 21:27:01
Printed: Jan 12, 2005 15:46:52

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	5.948	18.953	15.000	Failed
7 MCPA(PPm)	5.000	4.779	4.414	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.611	7.778	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	5.136	2.719	15.000	Passed

Signature _____

Applied P & Ch Laboratory
Gasoline/BTXE, GC analysis by FID/PID

File : c:\data\0set\mdl-gasw\Gasu20w.mdl
Method : c:\ezchrom\methods\Luft-032.u00
Sample ID : gascheck-mdl
Acquired : Jan 12, 2005 14:11:16
Printed : Jan 12, 2005 14:29:40
User : Julia Dai

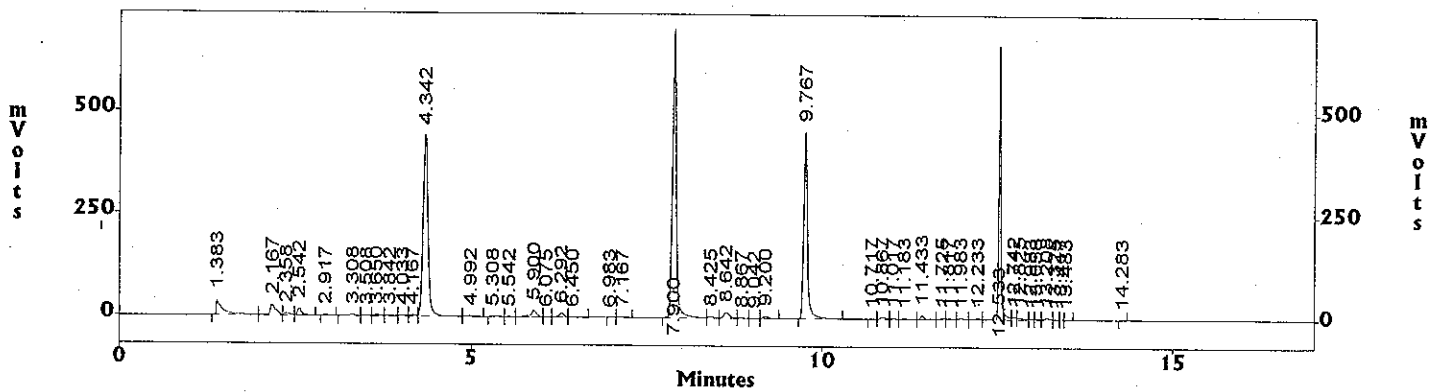
Channel A Results

No.	Name	RT,min	Area	H, V	Ave RF	ESTD (ppb)
12	2. TFT	4.34	2096153	442111	0.00000	0.0
22	11. Chlorobenzene	7.90	2708825	704988	32170.69336	84.2
28	7. BFB	9.77	1706405	455687	19348.50000	88.2
39	10. 3-cl-br-bz	12.74	25008	6802	0.00000	0.0
G1	1. Gasoline		769045		23815.25781	32.3

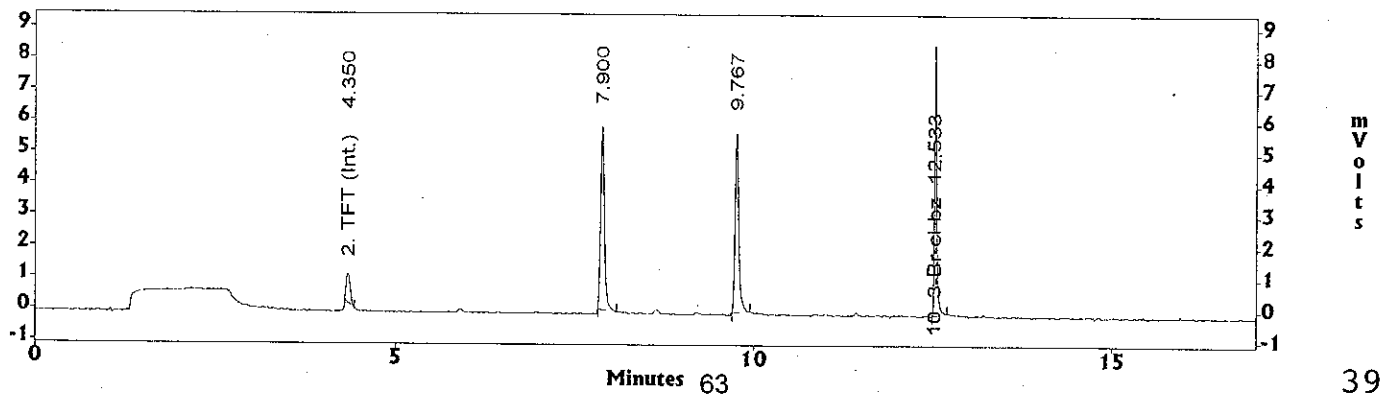
Channel B Results

No.	Name	Rt. min	Area	H, V	Ave. Rf	ISTD (ppb)
--	9. MTBE	2.26	0	0	0.00000	0.00
--	1. Benzene W 20	3.33	0	0	0.00000	0.00
1	2. TFT (Int.)	4.35	3541	956	0.00000	0.00
--	3. Toluene W 80	5.94	0	0	0.00000	0.00
--	11. Ch-bz	8.02	0	0	0.00000	0.00
--	5. Et-Bz W 19	8.49	0	0	0.00000	0.00
--	6. P/M xylene W 82	8.68	0	0	0.00000	0.00
--	7. O-xylene W 27	9.25	0	0	0.00000	0.00
--	8. BFB (Surr.)	9.89	0	0	0.00000	0.00
4	10. 3-Br-cl-bz	12.53	18643	8634	0.00000	0.00

c:\data\0set\mdl-gasw\Gasu20w.mdl -- Channel A



c:\data\0set\mdl-gasw\Gasu20w.mdl -- Channel B



3964

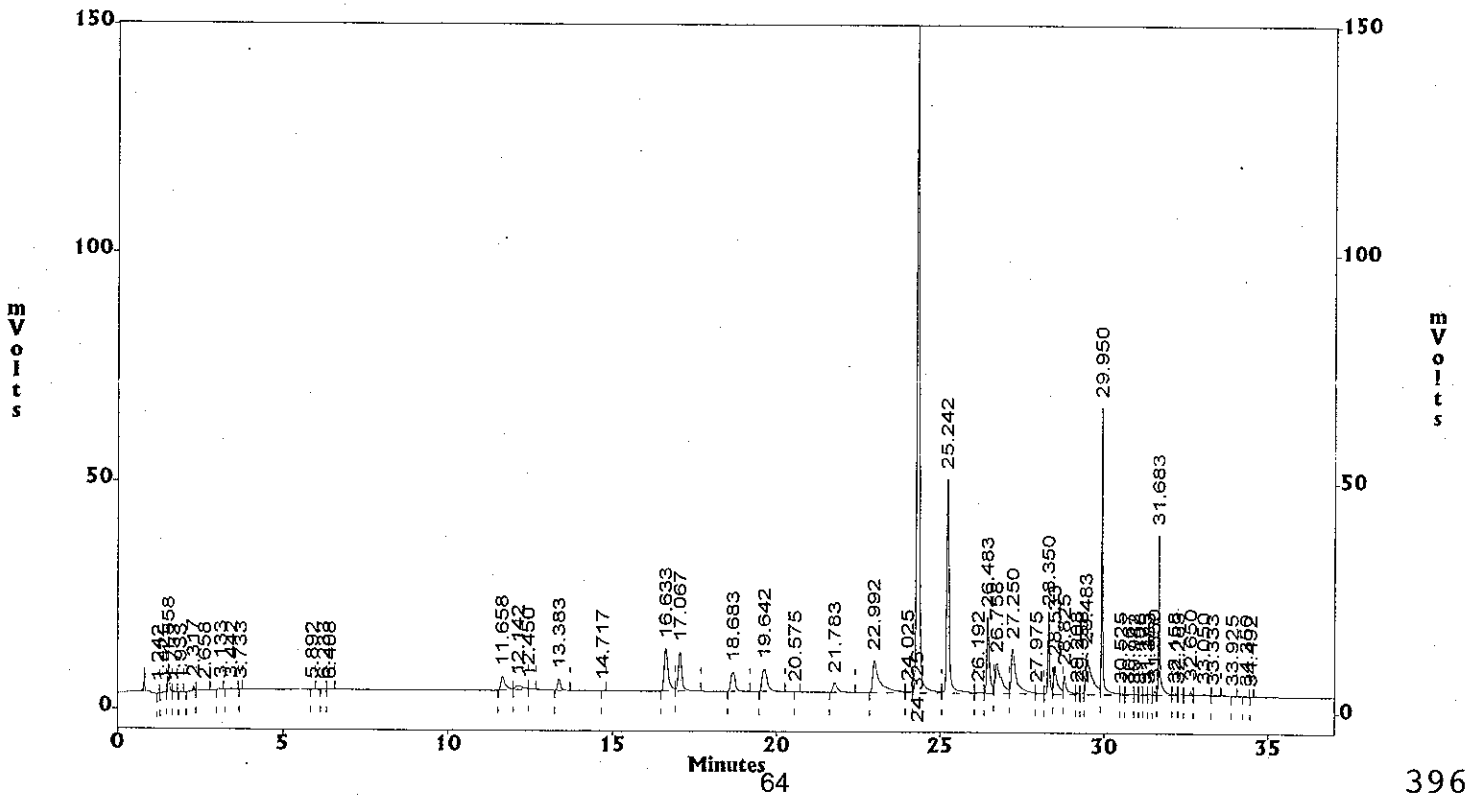
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.051
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 50ppb gc16860
Acquired : Dec 08, 2004 22:07:52
Printed : Jan 12, 2005 14:29:40
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	18106	5976	0.100089	50.00
14	2	3,5-Di-Cl-Bz acid	11.66	25182	2979	0.135160	50.00
15	3	4-Nitrophenol	12.14	13487	847	0.097400	50.00
19	4	DCAA(Surr)	16.63	79867	9313	0.082534	250.00
20	5	Dicamba	17.07	67312	8589	0.361851	50.00
21	6	MCPP(ppm)	18.68	39123	4152	1.245882	5.00
22	7	MCPA(PPm)	19.64	54141	4864	1.625503	5.00
24	8	Dichloroprop	21.78	20036	2057	0.109593	50.00
25	9	2,4-D (m)	22.99	107635	7052	0.113391	250.00
27	10	DBOB (IS)	24.33	803520	146088	1.000000	250.00
28	11	Pentachlorphenol	25.24	263884	46848	1.488131	50.00
30	12	Silvex (m)	26.48	95858	16562	0.555162	50.00
31	13	Chloramben	26.76	83441	6695	0.465274	50.00
32	14	2,4,5-T (m)	27.25	108214	9771	0.614194	50.00
34	15	Dinoseb	28.35	65580	17023	0.381891	50.00
35	16	2,4-DB	28.53	44699	6118	0.054770	250.00
36	17	Bentazon	28.83	26133	4160	0.112912	50.00
39	18	Picloram	29.48	110050	8852	0.755629	50.00
40	19	DCPA	29.95	163749	62704	0.897252	50.00
48	20	Acifluorfen	31.68	106650	34962	0.617056	50.00

c:\data\2004\0412\8151t\04g4163\8151t066.051 -- Channel A



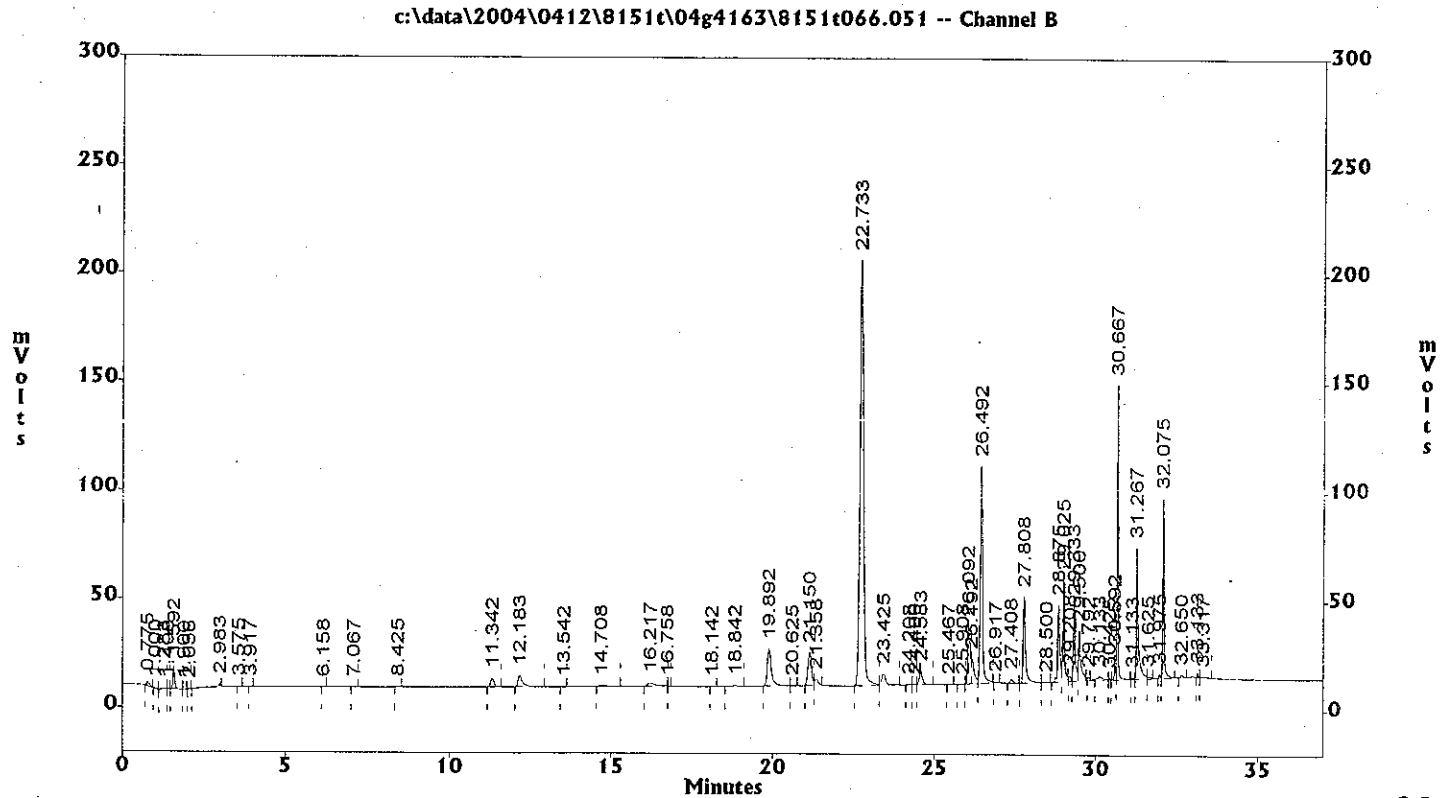
3965

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.051
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 50ppb gc16860
Acquired : Dec 08, 2004 22:07:52
Printed : Jan 12, 2005 14:29:40
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	40270	10539	0.126755	50.00
15	2	3,5-Di-Cl-Bz acid	12.18	52379	5061	0.154483	50.00
18	3	4-Nitrophenol	16.22	23700	1532	0.093535	50.00
22	4	DCAA (surr)	19.89	155891	16869	0.088093	250.00
24	5	Dicamba	21.15	119065	15108	0.371609	50.00
25	6	MCPP (ppm)	21.36	22198	2714	0.511087	5.00
26	7	DBOB (IS)	22.73	1514302	195964	1.000000	250.00
27	8	MCPA (ppm)	23.42	47451	5160	0.839008	5.00
30	9	Dichloroprop	24.58	39834	6145	0.113524	50.00
33	10	2,4-D (m)	26.09	139586	26403	0.094967	250.00
35	11	Pentachlorphenol	26.49	481302	99778	1.572894	50.00
38	12	Silvex (m)	27.81	198516	39470	0.632949	50.00
40	13	2,4,5-T (m)	28.88	155688	35210	0.557553	50.00
41	14	Dinoseb	29.02	159751	46829	0.471303	50.00
43	15	Chloramben	29.33	139281	34957	0.478771	50.00
44	16	2,4-DB	29.50	115391	22894	0.067091	250.00
48	17	Bentazon	30.59	25090	11490	0.071389	50.00
49	18	DCPA	30.67	284861	135405	0.864605	50.00
51	19	Picloram	31.27	240966	60280	0.849758	50.00
54	20	Acifluorfen	32.08	197544	82657	0.656098	50.00



3966

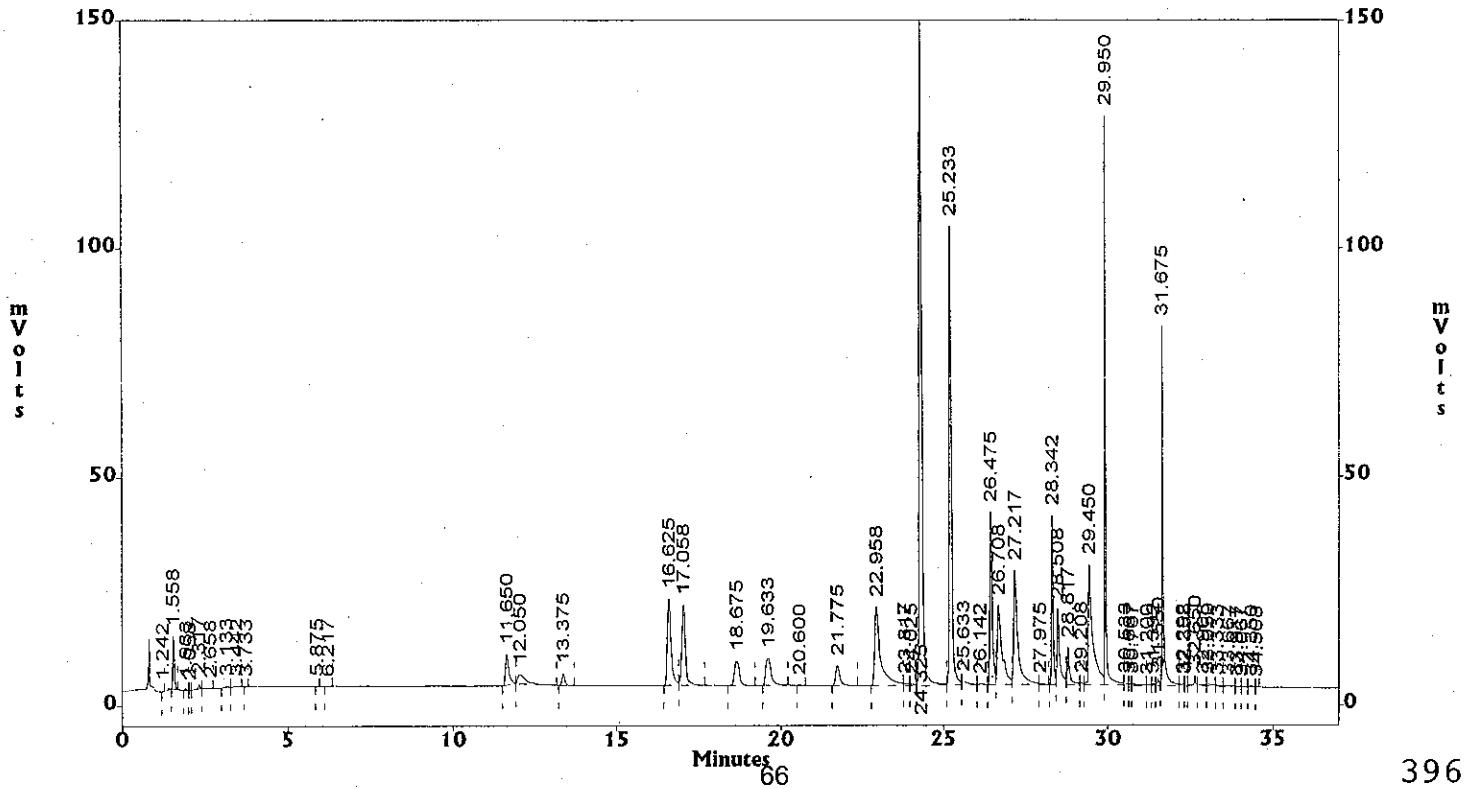
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.101
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 100ppb gc16861
Acquired : Dec 08, 2004 22:48:35
Printed : Jan 12, 2005 14:29:57
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.56	35127	11518	0.100089	100.00
12	2	3,5-Di-Cl-Bz acid	11.65	48190	6728	0.135160	100.00
13	3	4-Nitrophenol	12.05	36386	2108	0.097400	100.00
15	4	DCAA(Surr)	16.63	153886	18997	0.082534	500.00
16	5	Dicamba	17.06	130045	17606	0.361851	100.00
17	6	MCPP(ppm)	18.67	54546	5350	1.245882	10.00
18	7	MCPA(PPm)	19.63	70880	5984	1.625503	10.00
20	8	Dichloroprop	21.77	40280	4365	0.109593	100.00
21	9	2,4-D (m)	22.96	208728	17235	0.113391	500.00
24	10	DBOB (IS)	24.33	820691	145842	1.000000	250.00
25	11	Pentachlorphenol	25.23	508526	100542	1.488131	100.00
28	12	Silvex (m)	26.48	192226	37879	0.555162	100.00
29	13	Chloramben	26.71	171598	17440	0.465274	100.00
30	14	2,4,5-T (m)	27.22	208194	25075	0.614194	100.00
32	15	Dinoseb	28.34	130456	37053	0.381891	100.00
33	16	2,4-DB	28.51	91143	16588	0.054770	500.00
34	17	Bentazon	28.82	40272	8101	0.112912	100.00
36	18	Picloram	29.45	239313	26374	0.755629	100.00
37	19	DCPA	29.95	318689	124851	0.897252	100.00
44	20	Acifluorfen	31.67	217126	78823	0.617056	100.00

c:\data\2004\0412\8151t\04g4163\8151t066.101 -- Channel A

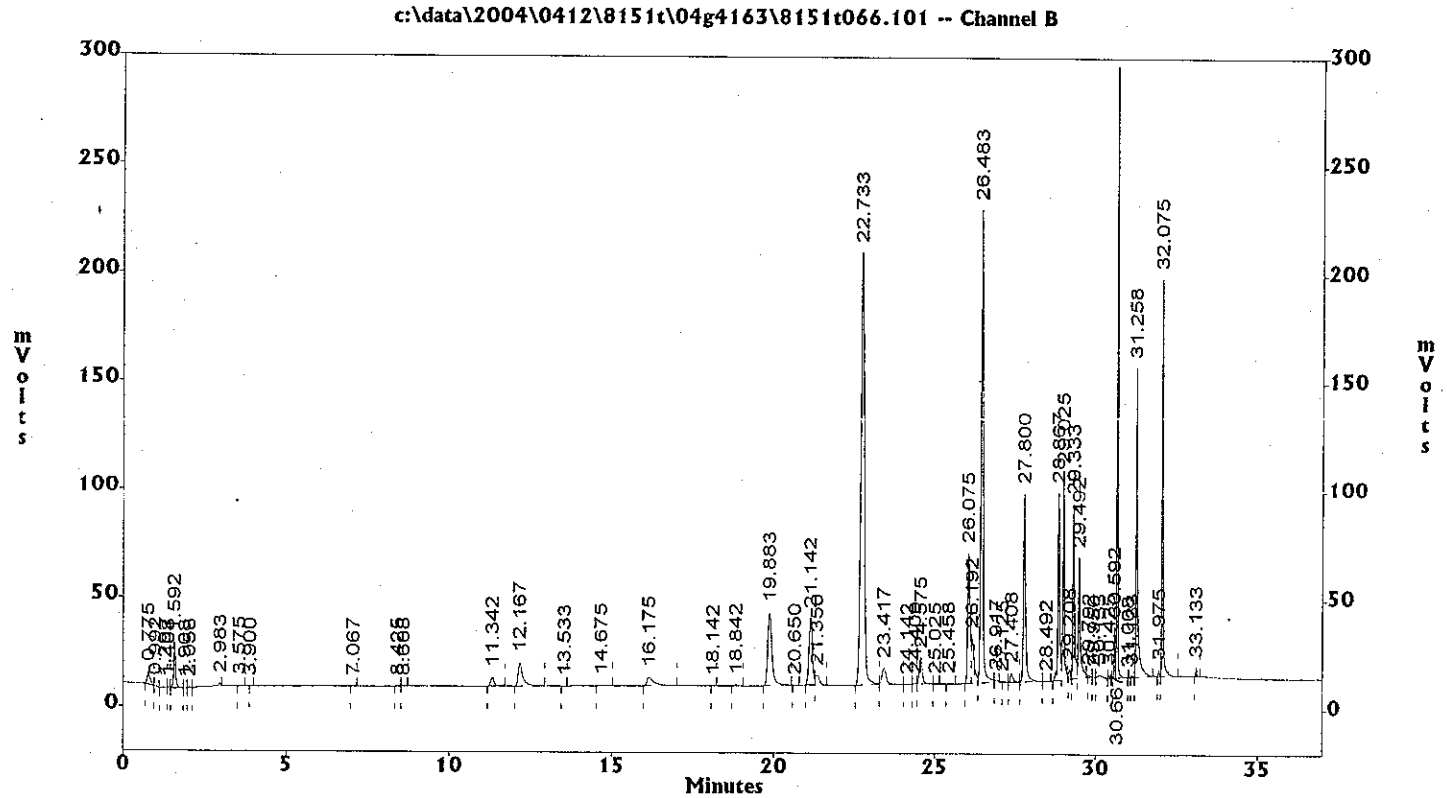


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.101
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 100ppb gc16861
Acquired : Dec 08, 2004 22:48:35
Printed : Jan 12, 2005 14:29:57
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	81355	21032	0.126755	100.00
15	2	3,5-Di-Cl-Bz acid	12.17	101966	10822	0.154483	100.00
18	3	4-Nitrophenol	16.17	59304	3930	0.093535	100.00
21	4	DCAA (surr)	19.88	294480	33421	0.088093	500.00
23	5	Dicamba	21.14	234819	30604	0.371609	100.00
24	6	MCPP (ppm)	21.35	40320	4432	0.511087	10.00
25	7	DBOB (IS)	22.73	1516322	199257	1.000000	250.00
26	8	MCPA (ppm)	23.42	60057	7186	0.839008	10.00
29	9	Dichloroprop	24.58	74485	11898	0.113524	100.00
32	10	2,4-D (m)	26.08	299969	59994	0.094967	500.00
34	11	Pentachlorphenol	26.48	987981	218020	1.572894	100.00
38	12	Silvex (m)	27.80	401352	86588	0.632949	100.00
40	13	2,4,5-T (m)	28.87	337374	86326	0.557553	100.00
41	14	Dinoseb	29.02	304839	95086	0.471303	100.00
43	15	Chloramben	29.33	284901	80281	0.478771	100.00
44	16	2,4-DB	29.49	210673	55431	0.067091	500.00
49	17	Bentazon	30.59	44822	23062	0.071389	100.00
50	18	DCPA	30.67	559030	281233	0.864605	100.00
53	19	Picloram	31.26	497646	142341	0.849758	100.00
55	20	Acifluorfen	32.08	407901	182898	0.656098	100.00



3968

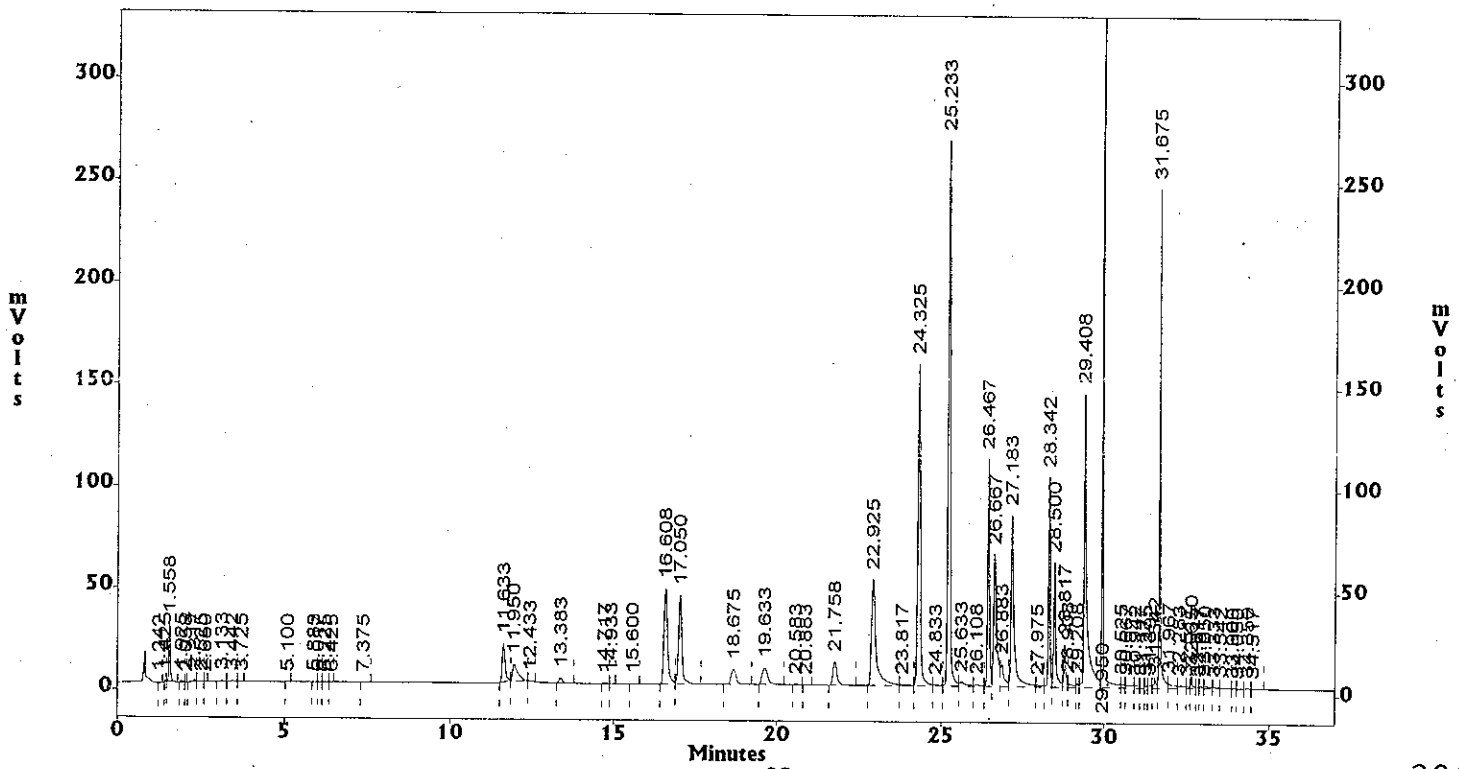
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.251
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 08, 2004 23:29:22
Printed : Jan 12, 2005 14:30:22
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	88472	28396	0.100089	250.00
18	2	3,5-Di-Cl-Bz acid	11.63	116248	18941	0.135160	250.00
19	3	4-Nitrophenol	11.95	87287	8242	0.097400	250.00
25	4	DCAA(Surr)	16.61	353184	46733	0.082534	1250.00
26	5	Dicamba	17.05	312649	43485	0.361851	250.00
27	6	MCPP(ppm)	18.67	79100	7299	1.245882	25.00
28	7	MCPA(PPm)	19.63	95471	8008	1.625503	25.00
31	8	Dichloroprop	21.76	96932	11499	0.109593	250.00
32	9	2,4-D (m)	22.92	498951	51928	0.113391	1250.00
34	10	DBOB (IS)	24.33	890954	157775	1.000000	250.00
36	11	Pentachlorphenol	25.23	1310885	267646	1.488131	250.00
39	12	Silvex (m)	26.47	499698	111798	0.555162	250.00
40	13	Chloramben	26.67	411294	64974	0.465274	250.00
42	14	2,4,5-T (m)	27.18	560376	83854	0.614194	250.00
44	15	Dinoseb	28.34	344727	103089	0.381891	250.00
45	16	2,4-DB	28.50	254026	61085	0.054770	1250.00
46	17	Bentazon	28.82	81030	21037	0.112912	250.00
49	18	Picloram	29.41	804614	144281	0.755629	250.00
50	19	DCPA	29.95	793542	328644	0.897252	250.00
58	20	Acifluorfen	31.67	557655	244724	0.617056	250.00

c:\data\2004\0412\8151t\04g4163\8151t066.251 -- Channel A



3969

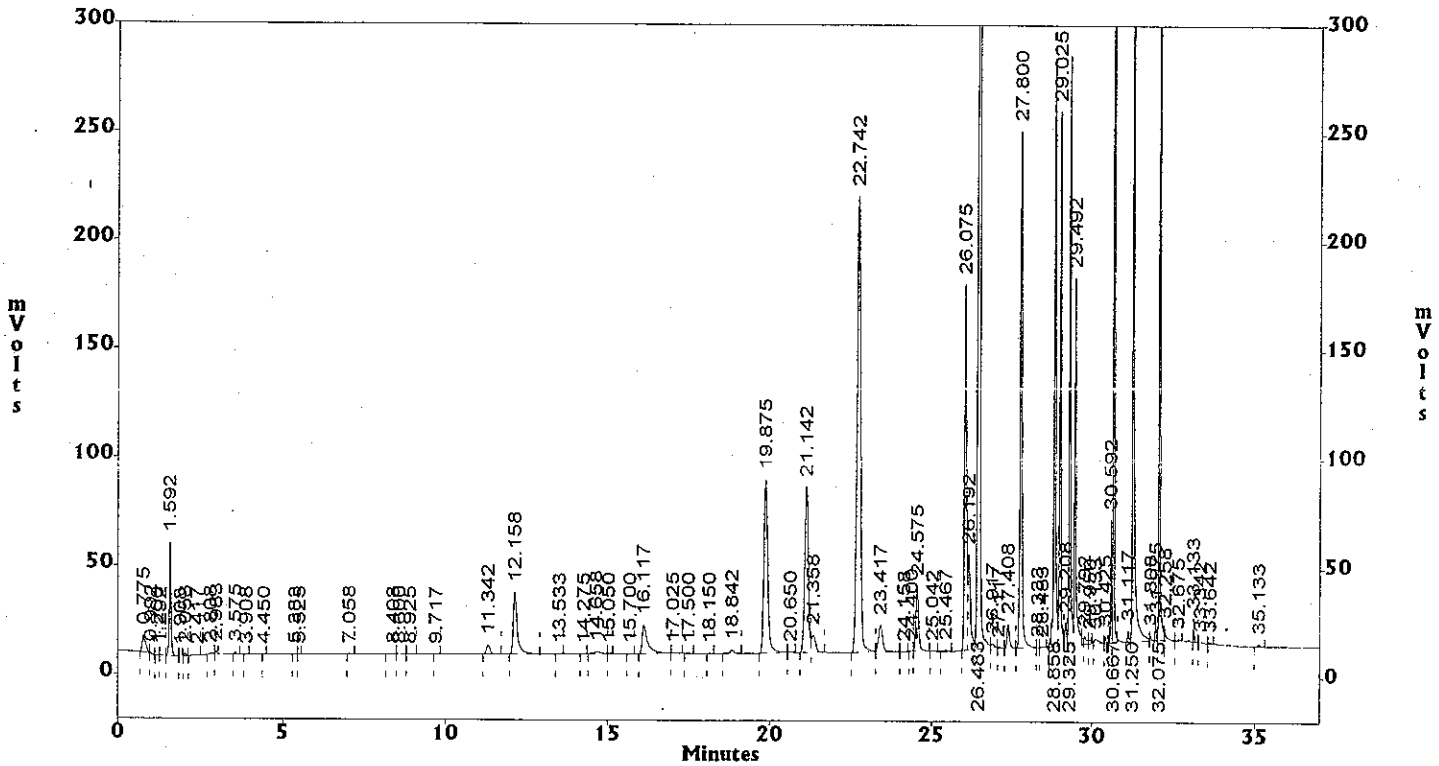
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.251
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 08, 2004 23:29:22
Printed : Jan 12, 2005 14:30:22
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	194357	52319	0.126755	250.00
22	2	3,5-Di-Cl-Bz acid	12.16	239619	28359	0.154483	250.00
28	3	4-Nitrophenol	16.12	159536	13190	0.093535	250.00
33	4	DCAA (surr)	19.88	674348	79824	0.088093	1250.00
35	5	Dicamba	21.14	587181	76409	0.371609	250.00
36	6	MCPP (ppm)	21.36	72106	7979	0.511087	25.00
37	7	DBOB (IS)	22.74	1593745	209959	1.000000	250.00
38	8	MCPA (ppm)	23.42	101282	12128	0.839008	25.00
41	9	Dichloroprop	24.58	172846	29928	0.113524	250.00
44	10	2,4-D (m)	26.08	781847	168537	0.094967	1250.00
46	11	Pentachlorphenol	26.48	2494907	561719	1.572894	250.00
50	12	Silvex (m)	27.80	1007717	237819	0.632949	250.00
53	13	2,4,5-T (m)	28.86	926445	266907	0.557553	250.00
54	14	Dinoseb	29.02	729290	245946	0.471303	250.00
56	15	Chloramben	29.33	825698	271294	0.478771	250.00
57	16	2,4-DB	29.49	519469	169089	0.067091	1250.00
62	17	Bentazon	30.59	111416	56585	0.071389	250.00
63	18	DCPA	30.67	1377233	682291	0.864605	250.00
65	19	Picloram	31.25	1578364	600817	0.849758	250.00
68	20	Acifluorfen	32.08	1073705	544386	0.656098	250.00

c:\data\2004\0412\8151t\04g4163\8151t066.251 -- Channel B



3970

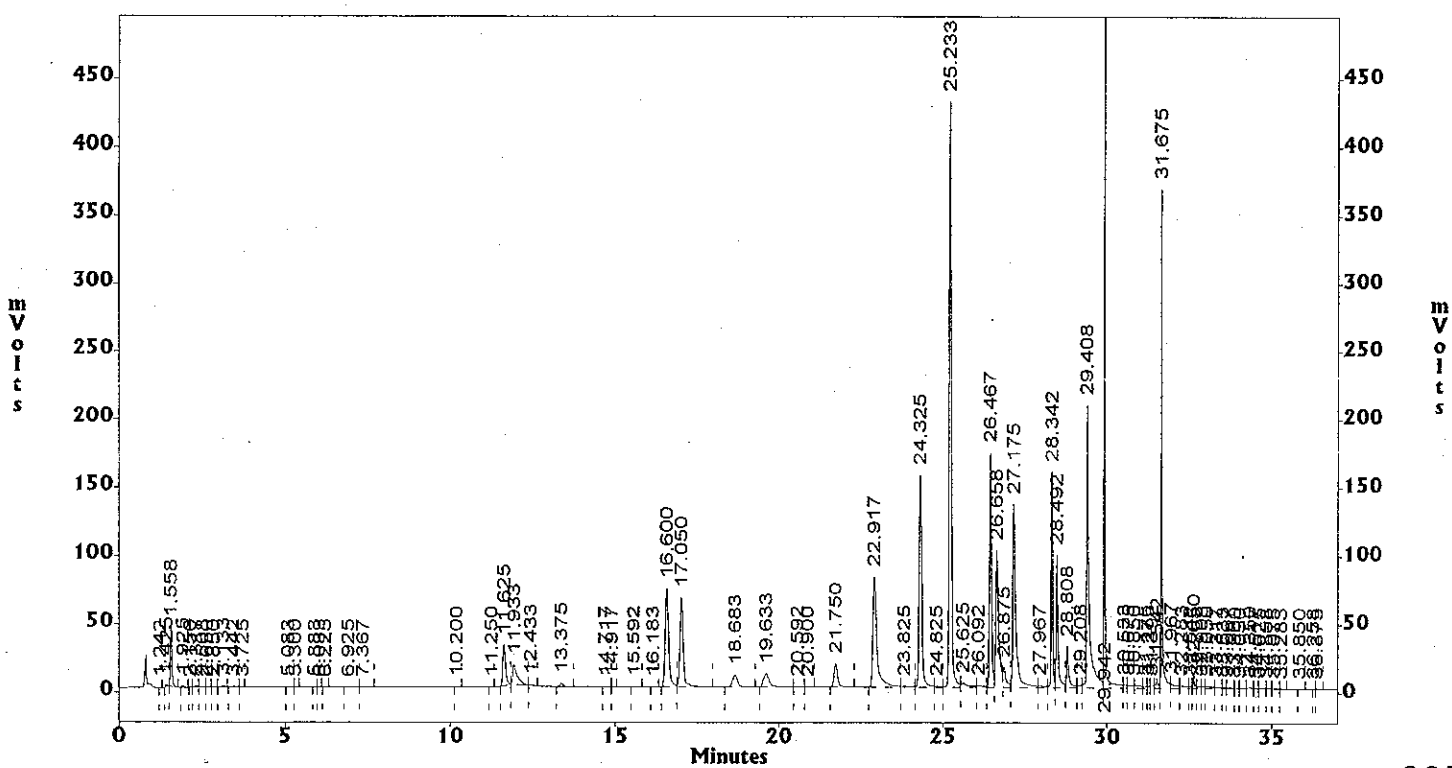
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.401
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 400ppb gc16863
Acquired : Dec 09, 2004 00:10:08
Printed : Jan 12, 2005 14:33:16
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	132908	43611	0.100089	400.00
22	2	3,5-Di-Cl-Bz acid	11.63	176902	30165	0.135160	400.00
23	3	4-Nitrophenol	11.93	138938	15004	0.097400	400.00
30	4	DCAA(Surr)	16.60	515503	72186	0.082534	2000.00
31	5	Dicamba	17.05	470591	65469	0.361851	400.00
32	6	MCPP(ppm)	18.68	95314	8650	1.245882	40.00
33	7	MCPA(PPm)	19.63	117396	9730	1.625503	40.00
36	8	Dichloroprop	21.75	141143	17222	0.109593	400.00
37	9	2,4-D (m)	22.92	713764	81115	0.113391	2000.00
39	10	DBOB (IS)	24.33	893992	155414	1.000000	250.00
41	11	Pentachlorphenol	25.23	2024306	429560	1.488131	400.00
44	12	Silvex (m)	26.47	755510	172247	0.555162	400.00
45	13	Chloramben	26.66	592578	100714	0.465274	400.00
47	14	2,4,5-T (m)	27.17	830485	134288	0.614194	400.00
49	15	Dinoseb	28.34	520814	158071	0.381891	400.00
50	16	2,4-DB	28.49	384914	97559	0.054770	2000.00
51	17	Bentazon	28.81	139362	30448	0.112912	400.00
53	18	Picloram	29.41	1057029	207082	0.755629	400.00
54	19	DCPA	29.94	1175855	492093	0.897252	400.00
62	20	Acifluorfen	31.67	821011	366452	0.617056	400.00

c:\data\2004\0412\8151t\04g4163\8151t066.401 -- Channel A



3971

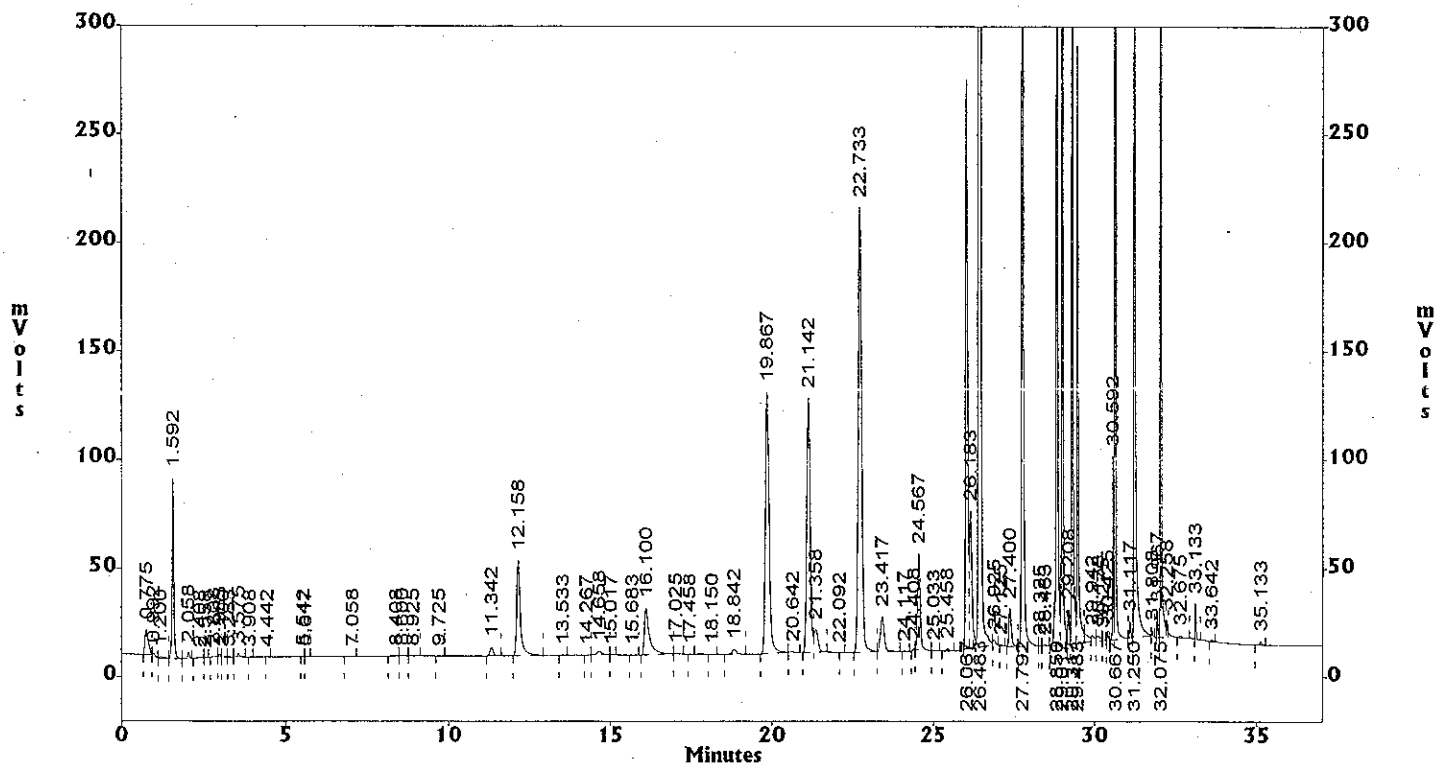
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.401
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 400ppb gc16863
Acquired : Dec 09, 2004 00:10:08
Printed : Jan 12, 2005 14:33:16
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
4	1	Dalapon	1.59	306180	83069	0.126755	400.00
23	2	3,5-Di-Cl-Bz acid	12.16	353449	44102	0.154483	400.00
29	3	4-Nitrophenol	16.10	238675	21595	0.093535	400.00
34	4	DCAA (surr)	19.87	979796	120593	0.088093	2000.00
36	5	Dicamba	21.14	886064	117227	0.371609	400.00
37	6	MCPP (ppm)	21.36	93776	10527	0.511087	40.00
39	7	DBOB (IS)	22.73	1542529	205240	1.000000	250.00
40	8	MCPA (ppm)	23.42	129781	16092	0.839008	40.00
43	9	Dichloroprop	24.57	252374	44399	0.113524	400.00
46	10	2,4-D (m)	26.07	1152850	262295	0.094967	2000.00
48	11	Pentachlorphenol	26.48	3824080	876266	1.572894	400.00
52	12	Silvex (m)	27.79	1520632	364769	0.632949	400.00
55	13	2,4,5-T (m)	28.85	1413328	422610	0.557553	400.00
56	14	Dinoseb	29.02	1086081	375143	0.471303	400.00
58	15	Chloramben	29.32	1175741	412486	0.478771	400.00
59	16	2,4-DB	29.48	777085	275382	0.067091	2000.00
64	17	Bentazon	30.59	163383	84559	0.071389	400.00
65	18	DCPA	30.67	2070925	1040371	0.864605	400.00
67	19	Picloram	31.25	2033200	846732	0.849758	400.00
70	20	Aciflubrfen	32.08	1586307	809766	0.656098	400.00

c:\data\2004\0412\8151t\04g4163\8151t066.401 -- Channel B



3972

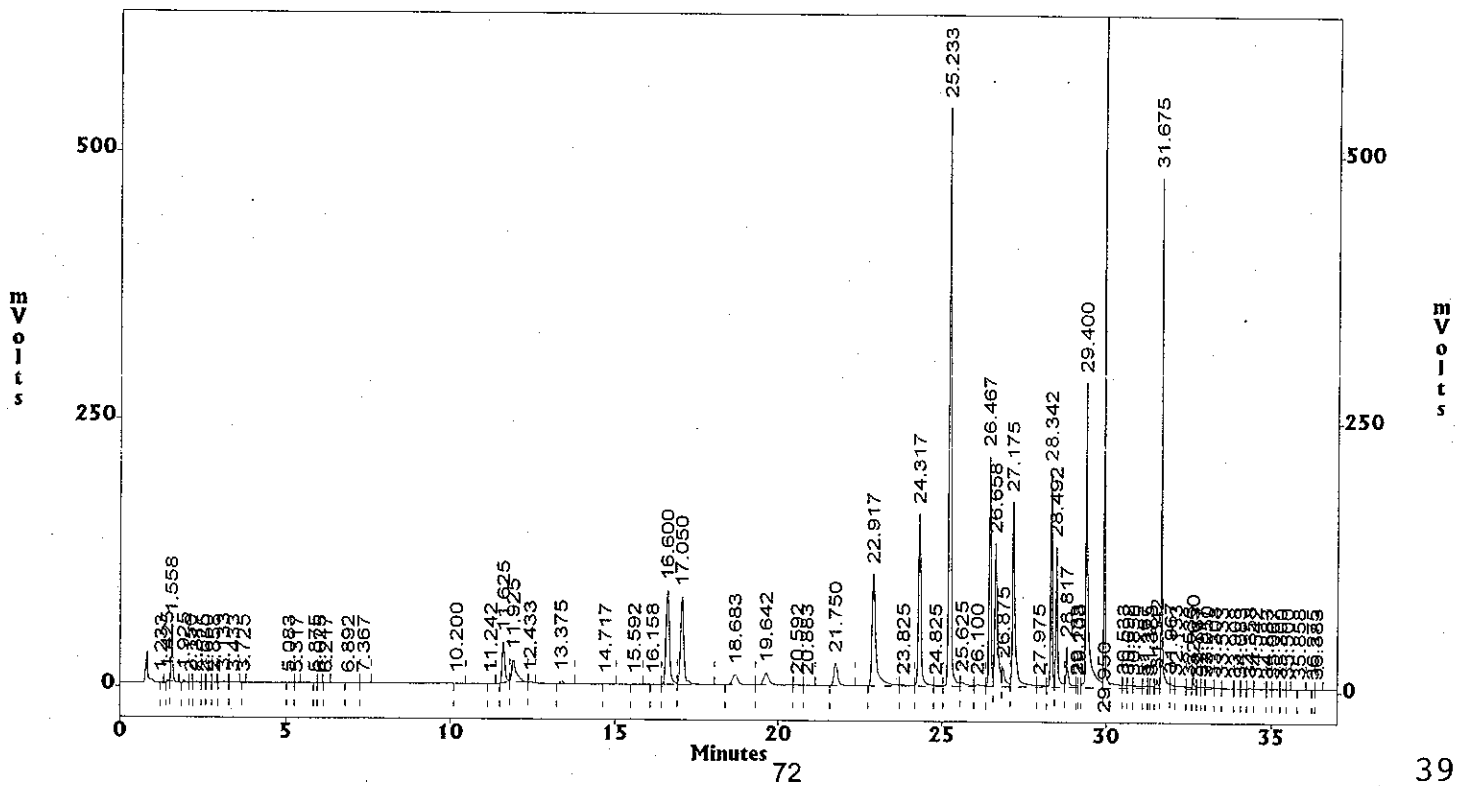
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.501
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 500ppb gc16864
Acquired : Dec 09, 2004 00:50:55
Printed : Jan 12, 2005 14:30:59
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	163986	53255	0.100089	500.00
22	2	3,5-Di-Cl-Bz acid	11.63	218786	38202	0.135160	500.00
23	3	4-Nitrophenol	11.93	179867	20426	0.097400	500.00
29	4	DCAA(Surr)	16.60	631046	87380	0.082534	2500.00
30	5	Dicamba	17.05	582080	81604	0.361851	500.00
31	6	MCPP(ppm)	18.68	107249	9706	1.245882	50.00
32	7	MCPA(PPm)	19.64	130932	10936	1.625503	50.00
35	8	Dichloroprop	21.75	172422	21161	0.109593	500.00
36	9	2,4-D (m)	22.92	870596	104134	0.113391	2500.00
38	10	DBOB (IS)	24.32	925862	160125	1.000000	250.00
40	11	Pentachlorphenol	25.23	2523865	540538	1.488131	500.00
43	12	Silvex (m)	26.47	934595	214735	0.555162	500.00
44	13	Chloramben	26.66	756452	133324	0.465274	500.00
46	14	2,4,5-T (m)	27.17	1025536	172189	0.614194	500.00
48	15	Dinoseb	28.34	653570	201384	0.381891	500.00
49	16	2,4-DB	28.49	480073	130029	0.054770	2500.00
50	17	Bentazon	28.82	168306	37410	0.112912	500.00
53	18	Picloram	29.40	1337452	284854	0.755629	500.00
54	19	DCPA	29.95	1451374	627691	0.897252	500.00
62	20	Acifluorfen	31.67	1037592	476796	0.617056	500.00

c:\data\2004\0412\8151t\04g4163\8151t066.501 -- Channel A



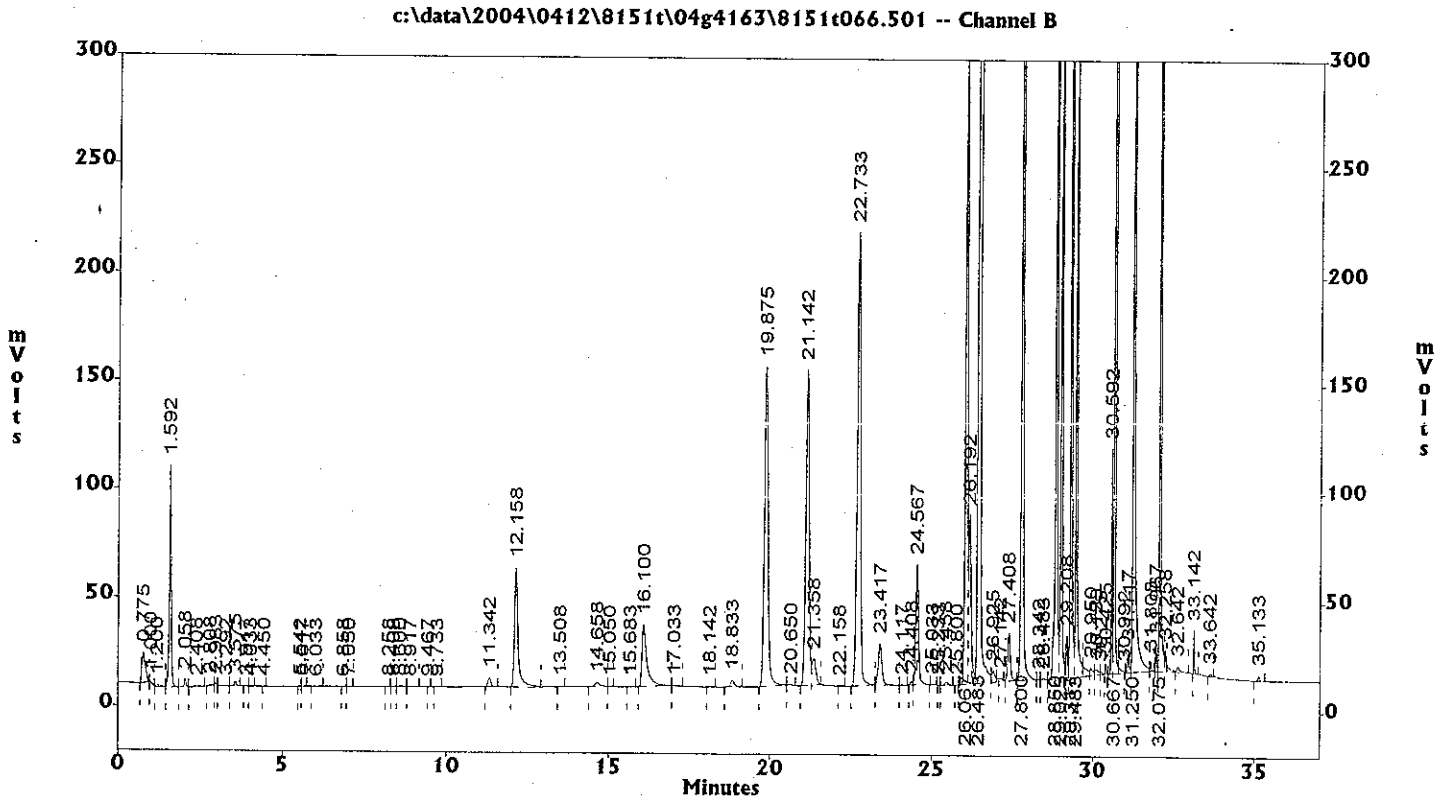
3973

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.501
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 500ppb gc16864
Acquired : Dec 09, 2004 00:50:55
Printed : Jan 12, 2005 14:30:59
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
4	1	Dalapon	1.59	377515	102015	0.126755	500.00
26	2	3,5-Di-Cl-Bz acid	12.16	431086	54615	0.154483	500.00
31	3	4-Nitrophenol	16.10	296703	28341	0.093535	500.00
35	4	DCAA (surr)	19.88	1194947	147101	0.088093	2500.00
37	5	Dicamba	21.14	1095947	145027	0.371609	500.00
38	6	MCPP (ppm)	21.36	101779	12051	0.511087	50.00
40	7	DBOB (IS)	22.73	1564238	209142	1.000000	250.00
41	8	MCPA (ppm)	23.42	149154	18815	0.839008	50.00
44	9	Dichloroprop	24.57	320914	55202	0.113524	500.00
49	10	2,4-D (m)	26.07	1442307	334584	0.094967	2500.00
51	11	Pentachlorphenol	26.48	4791262	1071635	1.572894	500.00
55	12	Silvex (m)	27.80	1874371	466344	0.632949	500.00
58	13	2,4,5-T (m)	28.85	1762948	550654	0.557553	500.00
59	14	Dinoseb	29.02	1341465	469361	0.471303	500.00
61	15	Chloramben	29.32	1469679	526678	0.478771	500.00
62	16	2,4-DB	29.48	964002	352738	0.067091	2500.00
67	17	Bentazon	30.59	200519	103606	0.071389	500.00
68	18	DCPA	30.67	2369899	1065104	0.864605	500.00
71	19	Picloram	31.25	2560711	1054408	0.849758	500.00
74	20	Acifluorfen	32.08	1999952	1047245	0.656098	500.00



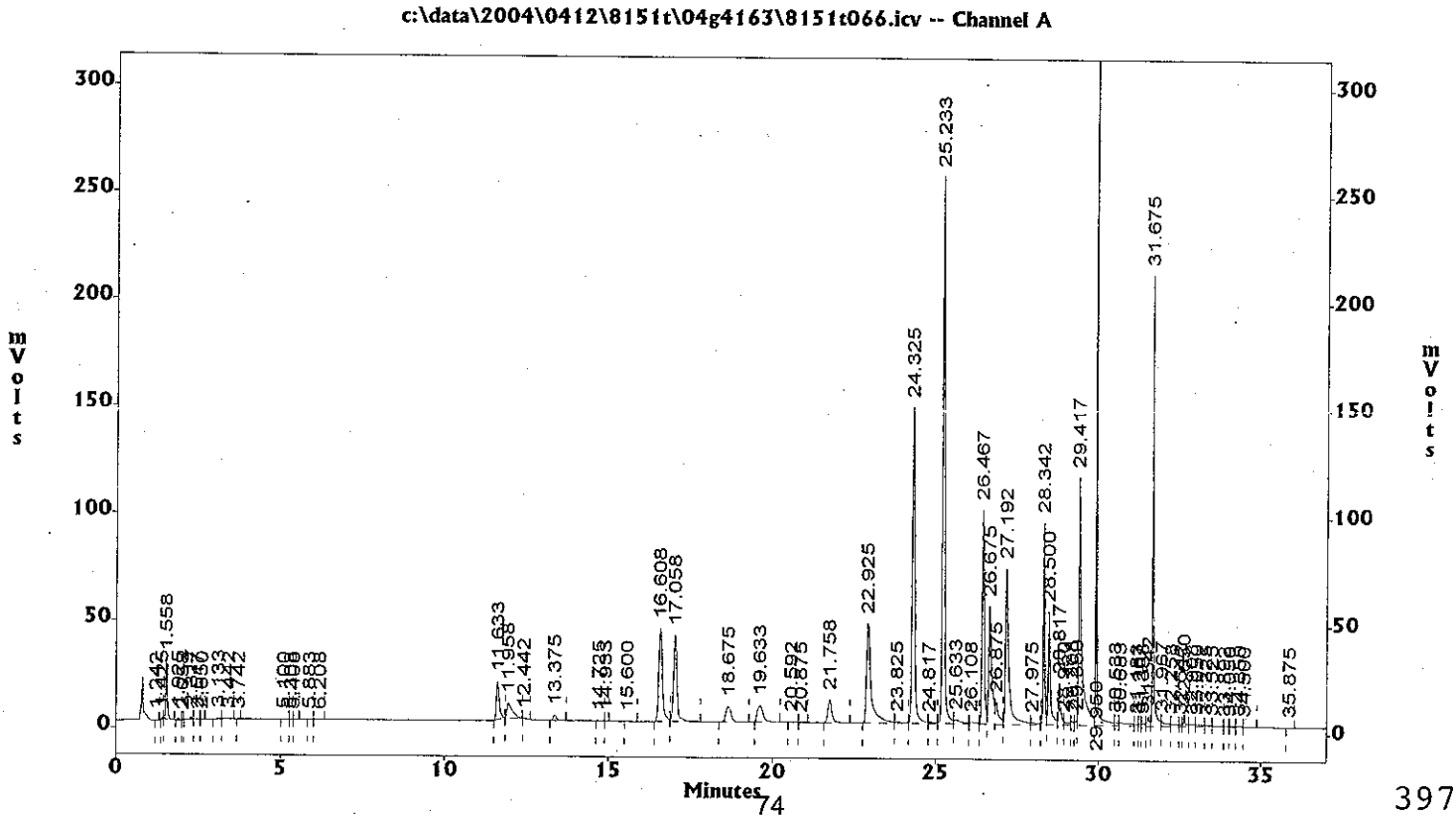
3974

Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.icv
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : icv gc16938
Acquired : Dec 09, 2004 01:31:38
Printed : Jan 12, 2005 15:02:22
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	83952	27039	0.100089	252.68
17	2	3,5-Di-Cl-Bz acid	11.63	108787	17577	0.135160	242.47
18	3	4-Nitrophenol	11.96	78515	7149	0.097400	242.84
24	4	DCAA(Surr)	16.61	330081	43476	0.082534	1204.78
25	5	Dicamba	17.06	292490	40056	0.361851	243.50
26	6	MCPP(ppm)	18.67	76894	7080	1.245882	31.00
27	7	MCPA(PPm)	19.63	92537	7692	1.625503	28.95
30	8	Dichloroprop	21.76	89728	10679	0.109593	246.64
31	9	2,4-D (m)	22.92	459420	46358	0.113391	1220.54
33	10	DBOB (IS)	24.33	829888	147054	1.000000	250.00
35	11	Pentachlorphenol	25.23	1216919	255043	1.488131	246.34
38	12	Silvex (m)	26.47	461763	99574	0.555162	250.56
39	13	Chloramben	26.67	356589	55046	0.465274	230.88
41	14	2,4,5-T (m)	27.19	513223	72519	0.614194	251.72
43	15	Dinoseb	28.34	312921	93818	0.381891	246.84
44	16	2,4-DB	28.50	232811	52836	0.054770	1280.50
45	17	Bentazon	28.82	79128	19094	0.112912	240.39
49	18	Picloram	29.42	670027	115087	0.755629	267.12
50	19	DCPA	29.95	733882	310177	0.897252	246.40
57	20	Acifluorfen	31.67	493724	209668	0.617056	241.04

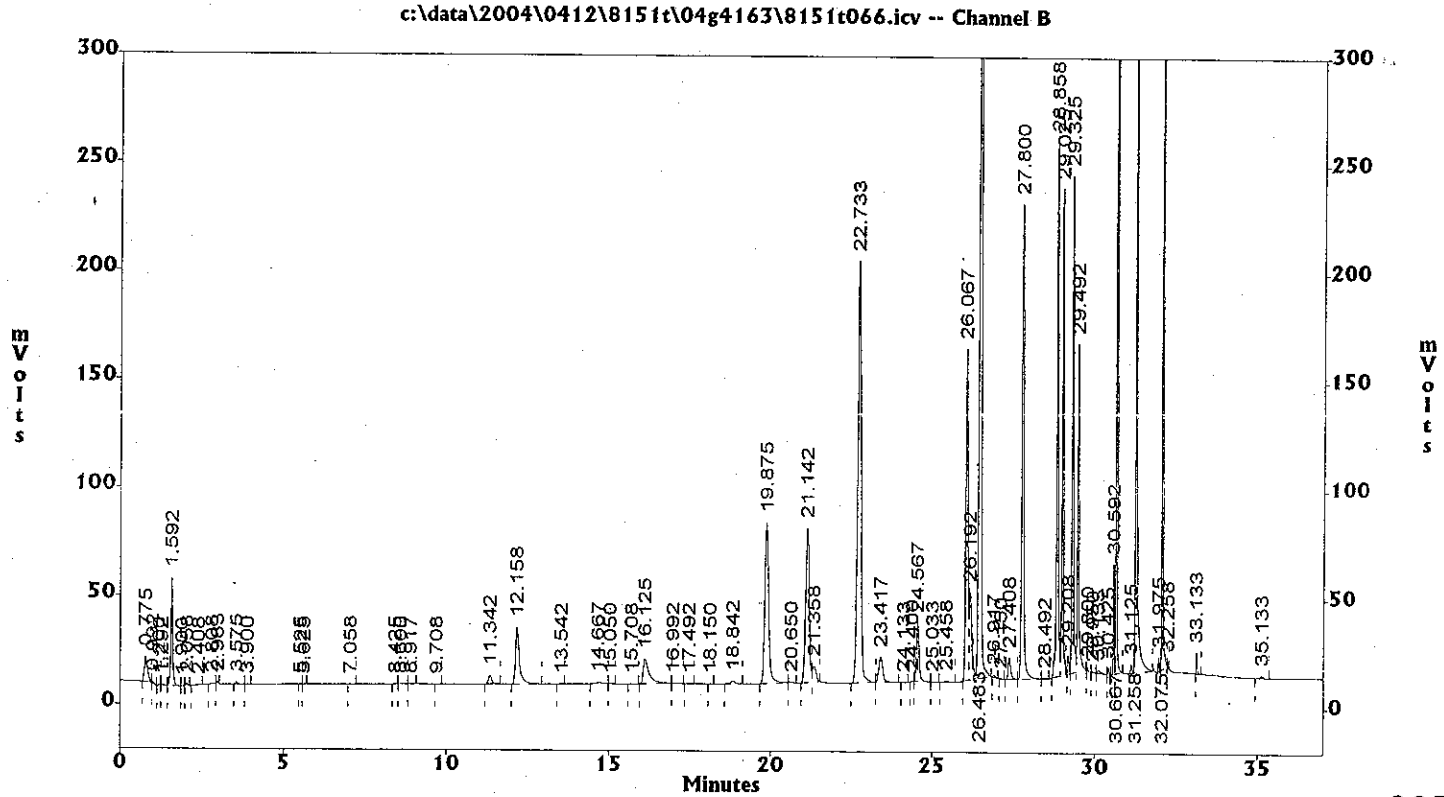


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.icv
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : icv gc16938
Acquired : Dec 09, 2004 01:31:38
Printed : Jan 12, 2005 15:02:22
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	185439	49634	0.126755	247.14
21	2	3,5-Di-Cl-Bz acid	12.16	223707	26263	0.154483	244.63
26	3	4-Nitrophenol	16.13	145074	11511	0.093535	262.01
31	4	DCAA (surr)	19.88	627510	74212	0.088093	1203.34
33	5	Dicamba	21.14	541280	71314	0.371609	246.06
34	6	MCPP (ppm)	21.36	61336	7345	0.511087	25.11
35	7	DBOB (IS)	22.73	1479902	194442	1.000000	250.00
36	8	MCPA (ppm)	23.42	96561	11532	0.839008	27.70
39	9	Dichloroprop	24.57	160518	27046	0.113524	238.86
42	10	2,4-D (m)	26.07	707872	153105	0.094967	1259.19
44	11	Pentachlorphenol	26.48	2288541	527200	1.572894	245.79
48	12	Silvex (m)	27.80	933025	218872	0.632949	249.02
50	13	2,4,5-T (m)	28.86	835794	246682	0.557553	253.23
51	14	Dinoseb	29.02	660473	224196	0.471303	236.73
53	15	Chloramben	29.33	708442	229363	0.478771	249.97
54	16	2,4-DB	29.49	448827	151482	0.067091	1130.11
59	17	Bentazon	30.59	100194	50531	0.071389	237.09
60	18	DCPA	30.67	1269633	638640	0.864605	248.07
62	19	Picloram	31.26	1317571	488008	0.849758	261.93
64	20	Acifluorfen	32.08	924036	475834	0.656098	237.92



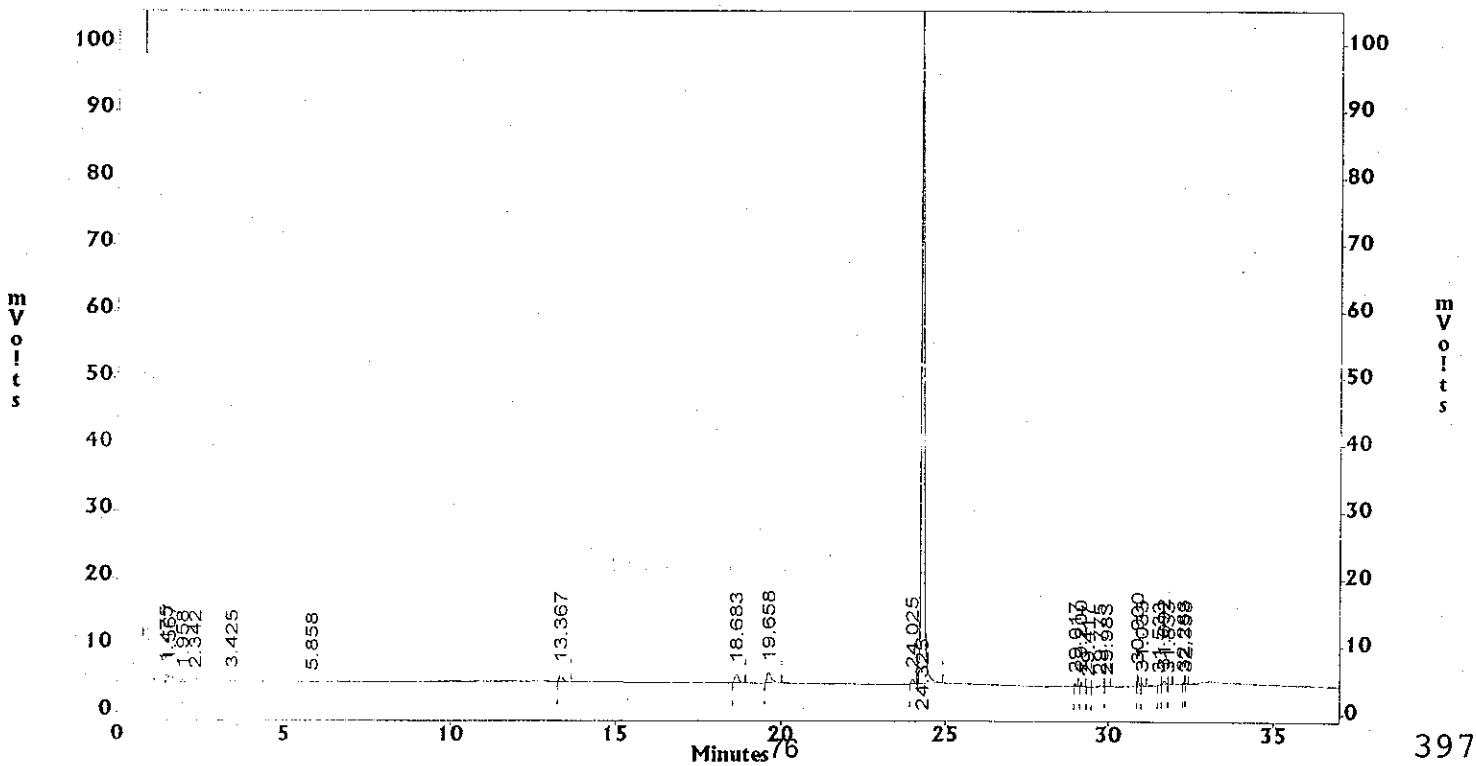
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p01
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 1ppm gc17095
Acquired : Dec 08, 2004 16:01:10
Printed : Dec 15, 2004 16:29:09
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
8	6 MCPP(ppm)	18.68	10038	1316	3.297474	1.00
9	7 MCPA(PPm)	19.66	14656	1583	4.736005	1.00
11	10 DBOB (IS)	24.33	556996	100638	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p01 -- Channel A

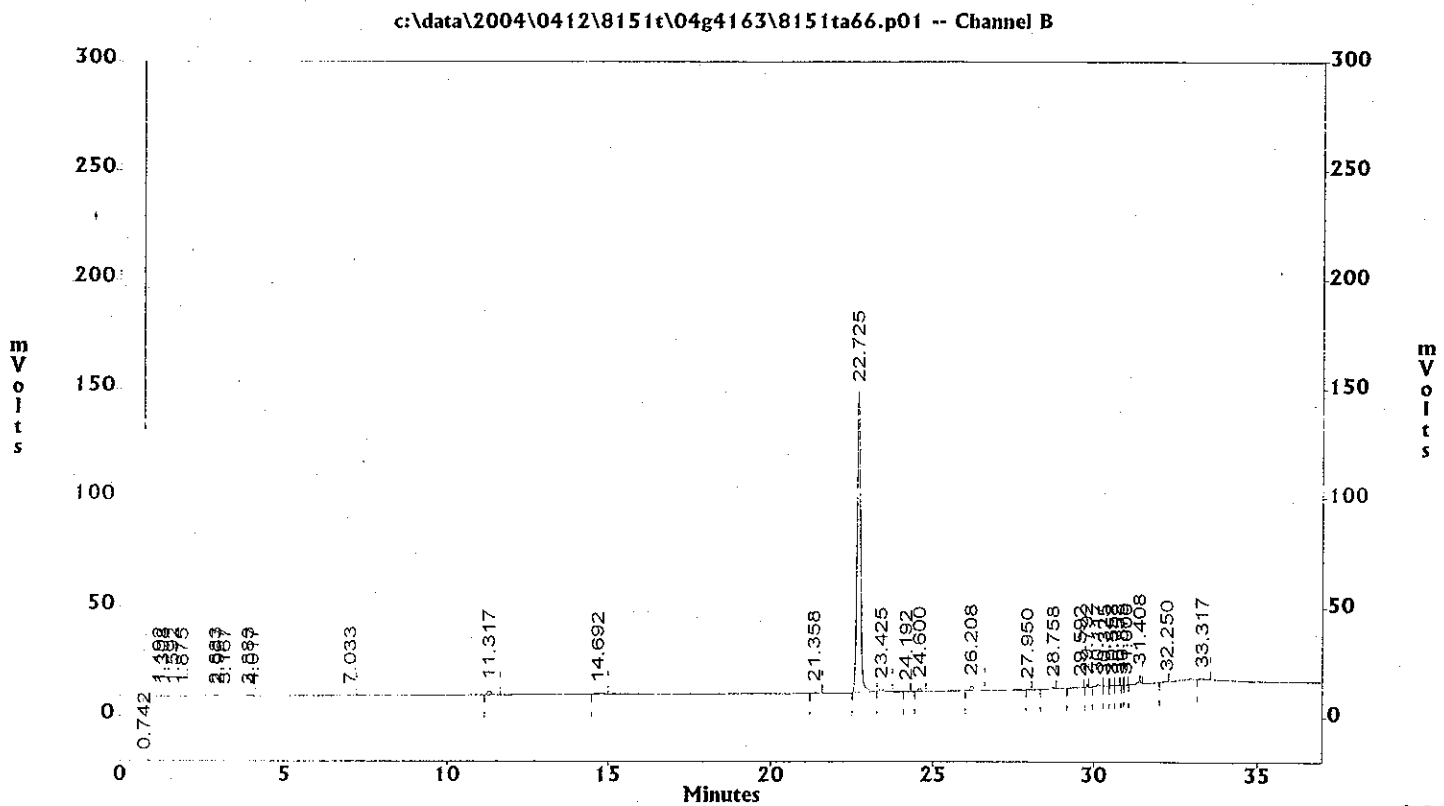


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p01
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 1ppm gc17095
Acquired : Dec 08, 2004 16:01:10
Printed : Dec 15, 2004 16:29:10
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
14	6 MCPP (ppm)	21.36	4417	510	0.934563	1.00
15	7 DBOB (IS)	22.73	1075308	137421	1.000000	250.00
16	8 MCPA (ppm)	23.42	8532	1144	1.697036	1.00



3978

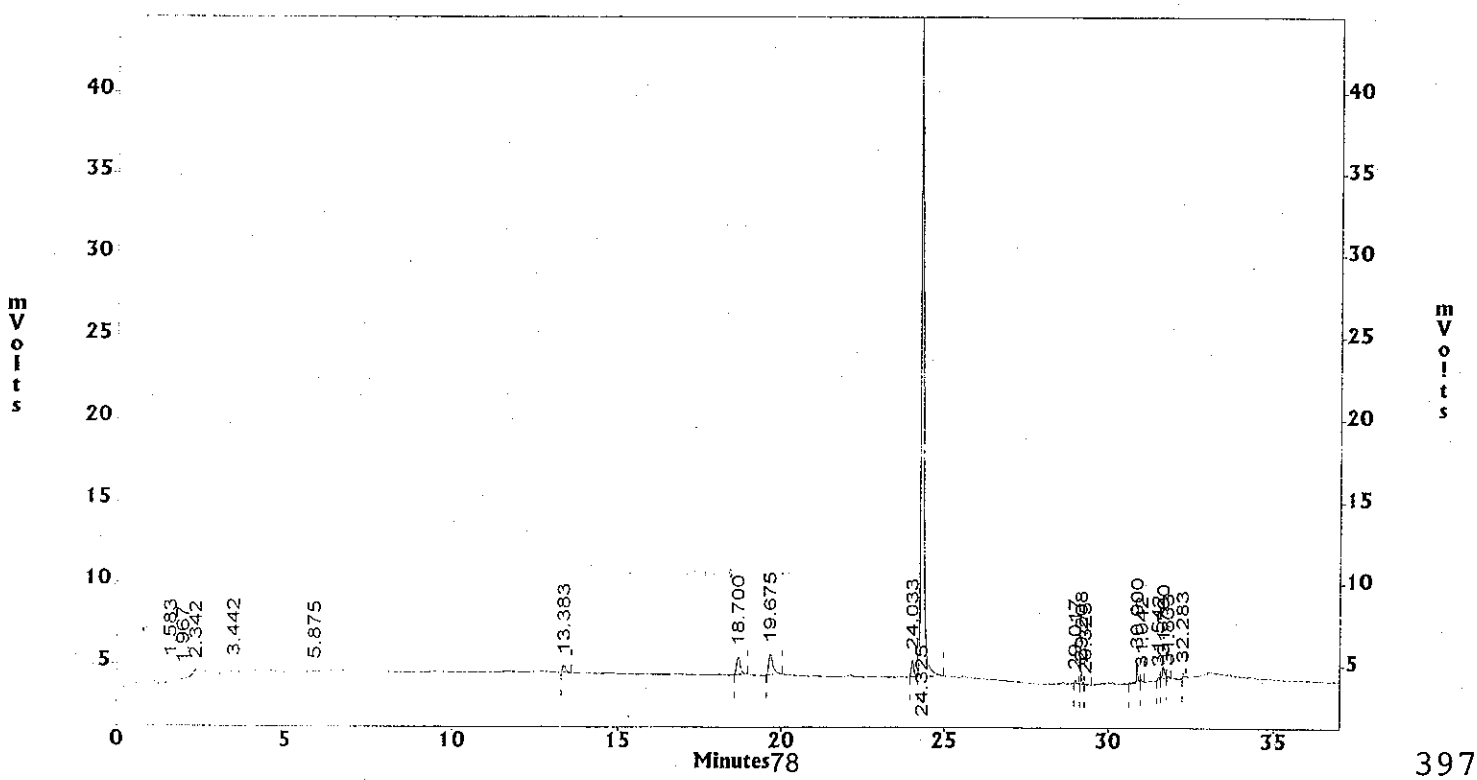
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 2ppm gc17094
Acquired : Dec 08, 2004 16:41:56
Printed : Dec 15, 2004 16:32:01
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
7	6 MCPP(ppm)	18.70	8091	1061	3.297474	2.00
8	7 MCPA(PPm)	19.67	11532	1280	4.736005	2.00
10	10 DBOB (IS)	24.33	234101	40342	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p02 -- Channel A

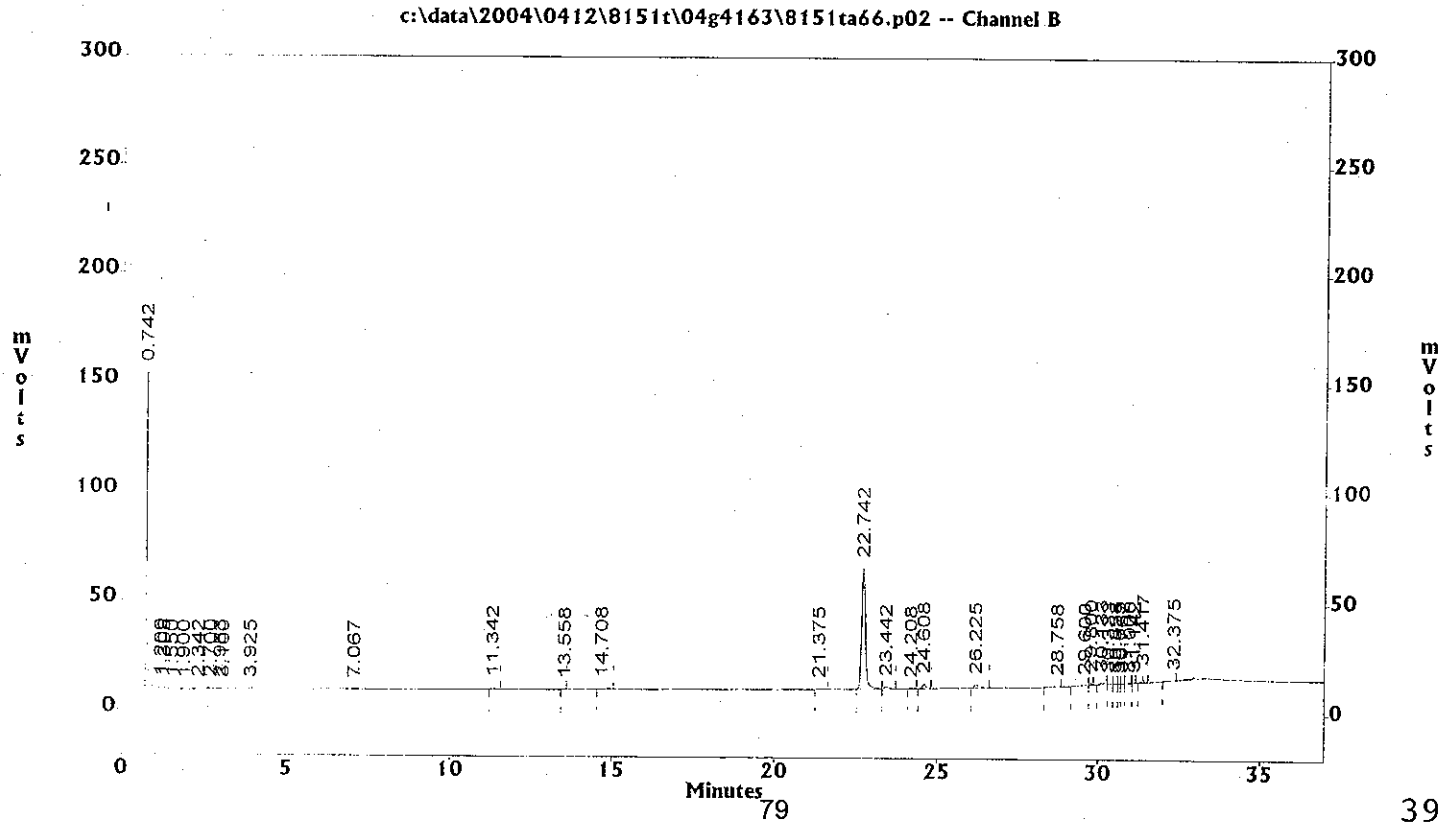


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 2ppm gc17094
Acquired : Dec 08, 2004 16:41:56
Printed : Dec 15, 2004 16:32:02
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
15	6 MCPP (ppm)	21.38	3347	400	0.934563	2.00
16	7 DBOB (IS)	22.74	445470	55029	1.000000	250.00
17	8 MCPA (ppm)	23.44	6879	920	1.697036	2.00



3980

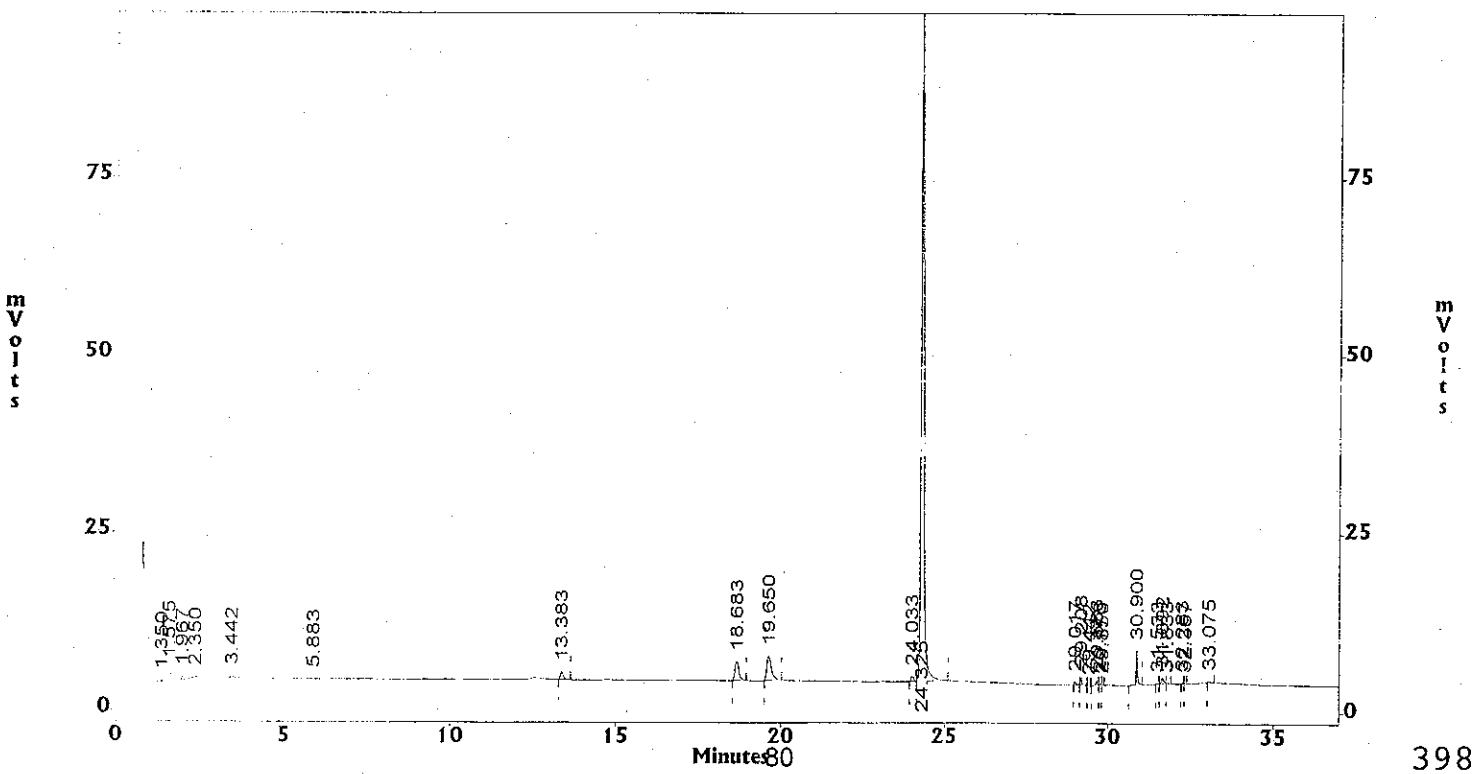
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p03
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 3ppm gc17093
Acquired : Dec 08, 2004 18:44:01
Printed : Dec 15, 2004 16:32:38
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
8	6 MCPP(ppm)	18.68	22134	2688	3.297474	3.00
9	7 MCPA(PPm)	19.65	32876	3416	4.736005	3.00
11	10 DBOB (IS)	24.33	524905	94084	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p03 -- Channel A



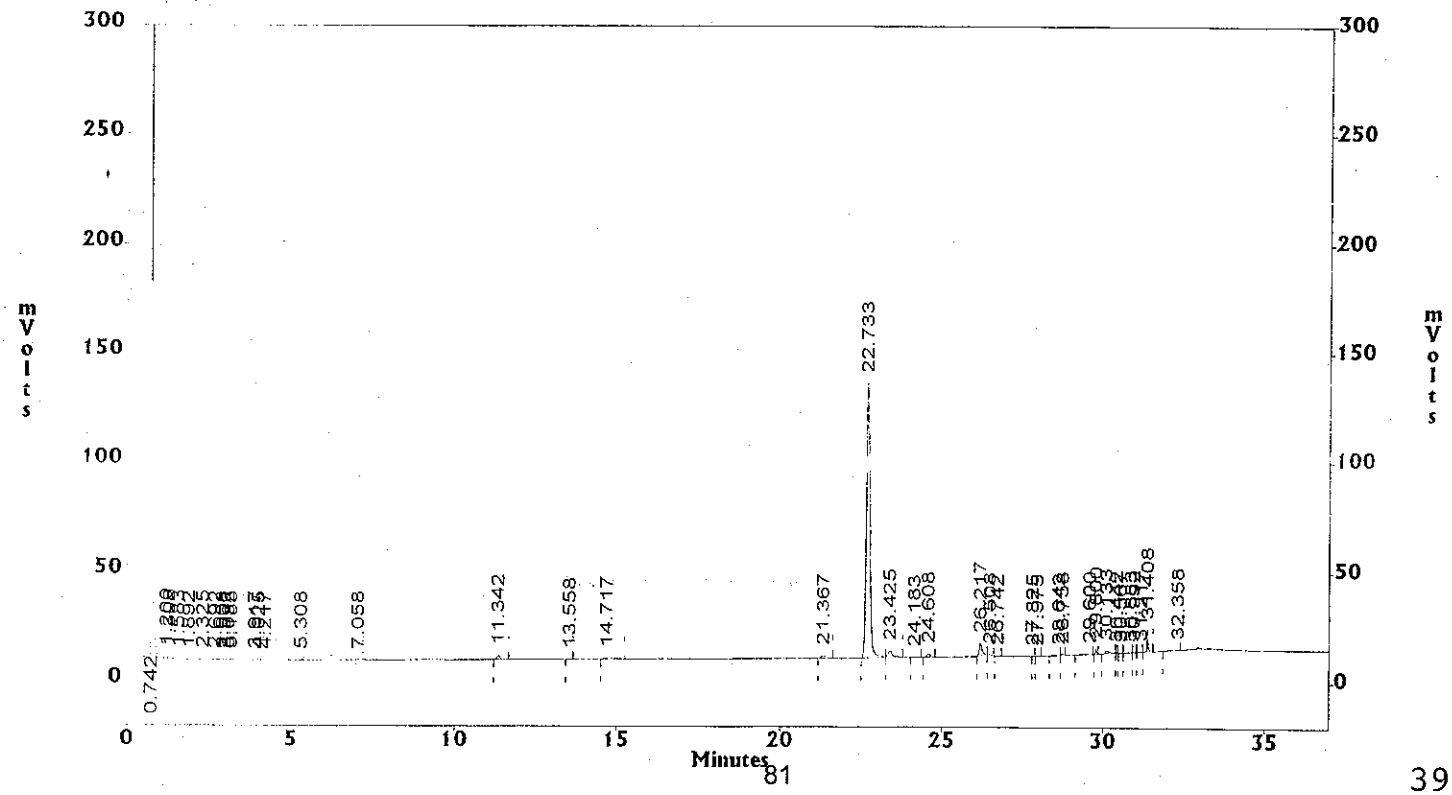
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p03
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 3ppm gc17093
Acquired : Dec 08, 2004 18:44:01
Printed : Dec 15, 2004 16:32:38
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
20	6 MCPP (ppm)	21.37	11814	1350	0.934563	3.00
21	7 DBOB (IS)	22.73	978902	125509	1.000000	250.00
22	8 MCPA (ppm)	23.42	21992	2848	1.697036	3.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p03 -- Channel B



3982

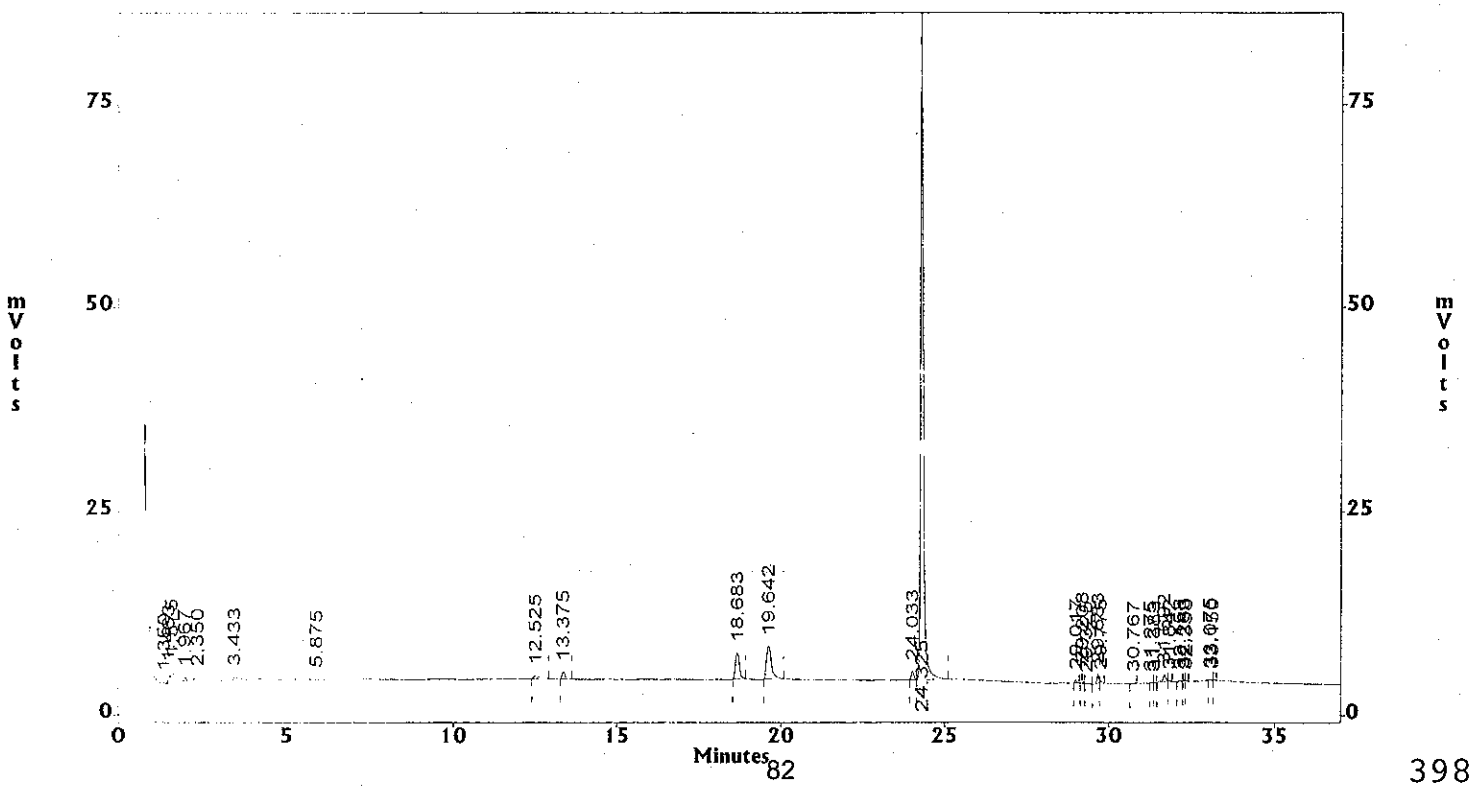
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p05
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17096
Acquired : Dec 08, 2004 19:24:46
Printed : Dec 15, 2004 16:33:57
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
10	6 MCPP(ppm)	18.68	27201	3220	3.297474	5.00
11	7 MCPA(PPm)	19.64	41483	4075	4.736005	5.00
13	10 DBOB (IS)	24.33	458795	82053	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p05 -- Channel A



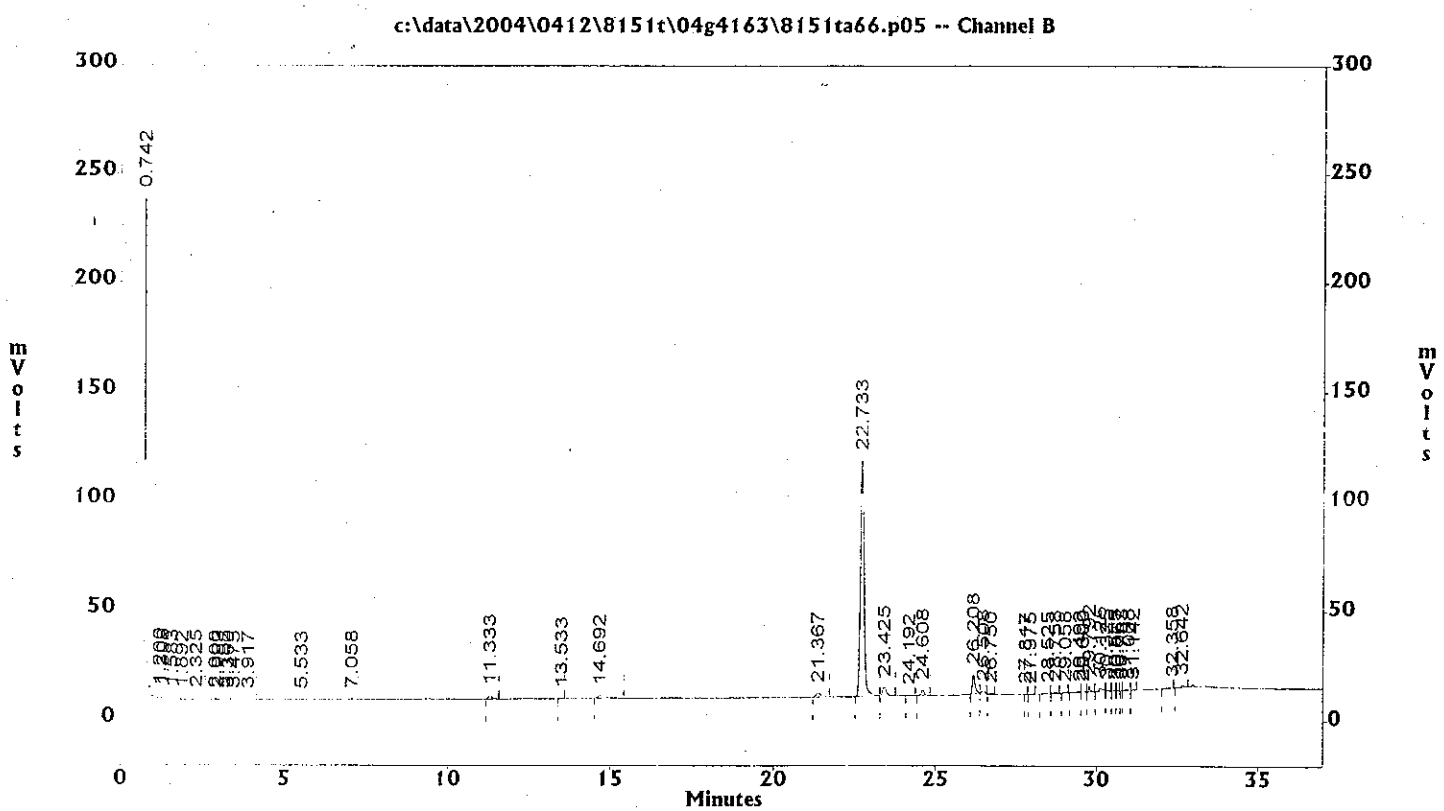
3983

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p05
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17096
Acquired : Dec 08, 2004 19:24:46
Printed : Dec 15, 2004 16:33:58
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
18	6 MCPP (ppm)	21.37	15983	1825	0.934563	5.00
19	7 DBOB (IS)	22.73	840450	107681	1.000000	250.00
20	8 MCPA (ppm)	23.42	29021	3683	1.697036	5.00



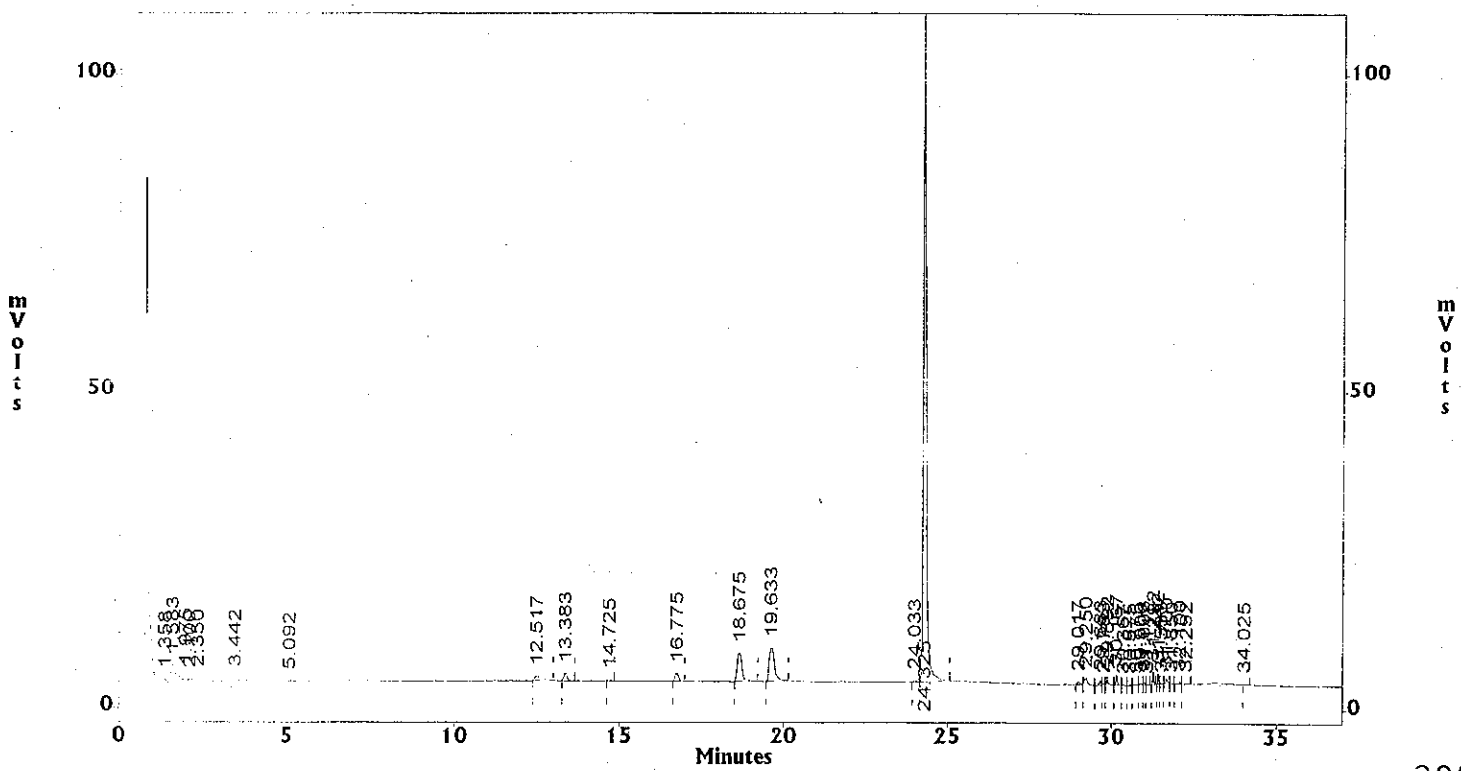
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p08
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 8ppm gc17091
Acquired : Dec 08, 2004 20:05:32
Printed : Dec 15, 2004 16:34:51
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
12	6 MCPP(ppm)	18.67	44202	4505	3.297474	8.00
13	7 MCPA(PPm)	19.63	58473	5270	4.736005	8.00
15	10 DBOB (IS)	24.33	601268	105522	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p08 -- Channel A



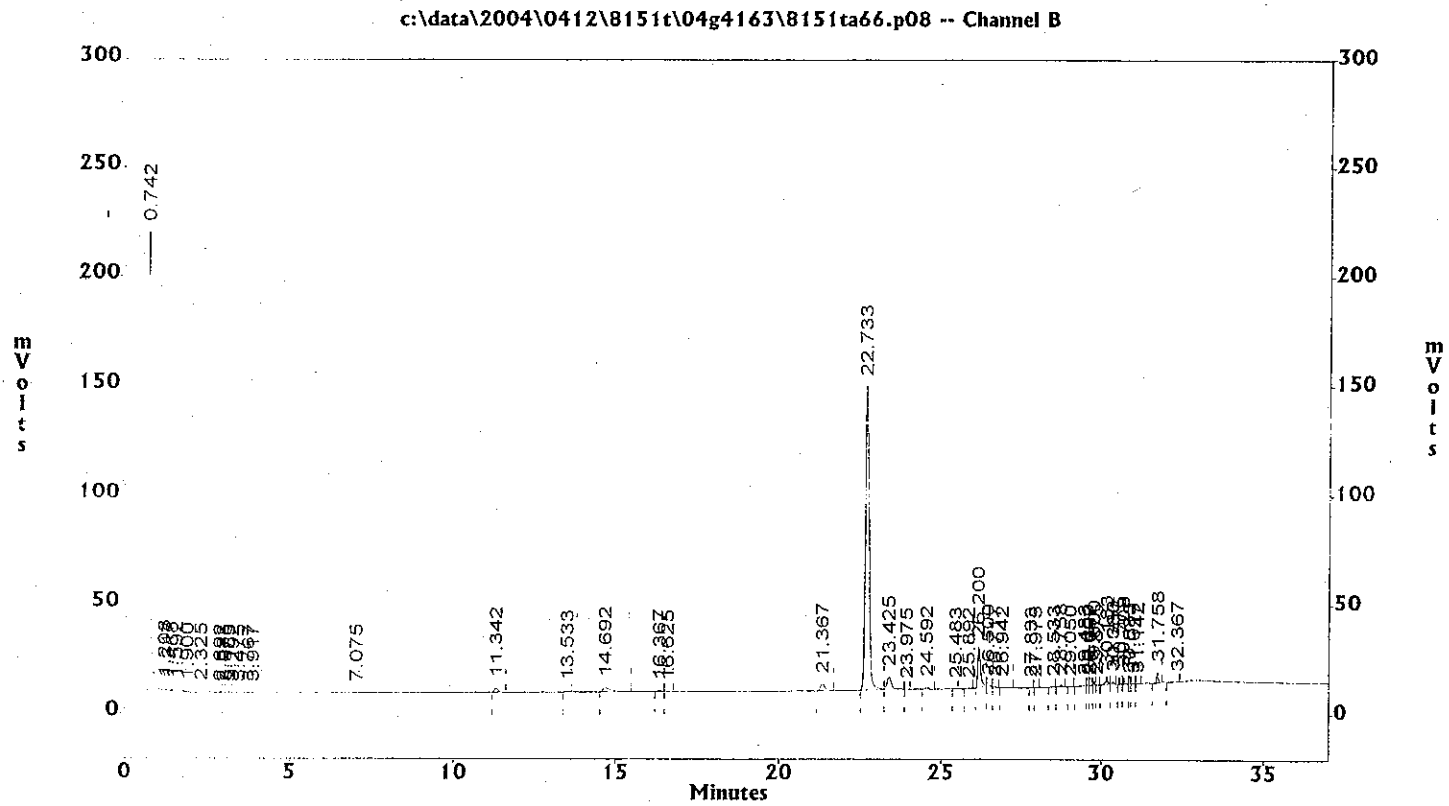
3985

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p08
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 8ppm gc17091
Acquired : Dec 08, 2004 20:05:32
Printed : Dec 15, 2004 16:34:52
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
22	6 MCPP (ppm)	21.37	28830	3149	0.934563	8.00
23	7 DBOB (IS)	22.73	1074373	138981	1.000000	250.00
24	8 MCPA (ppm)	23.42	45858	5595	1.697036	8.00



3986

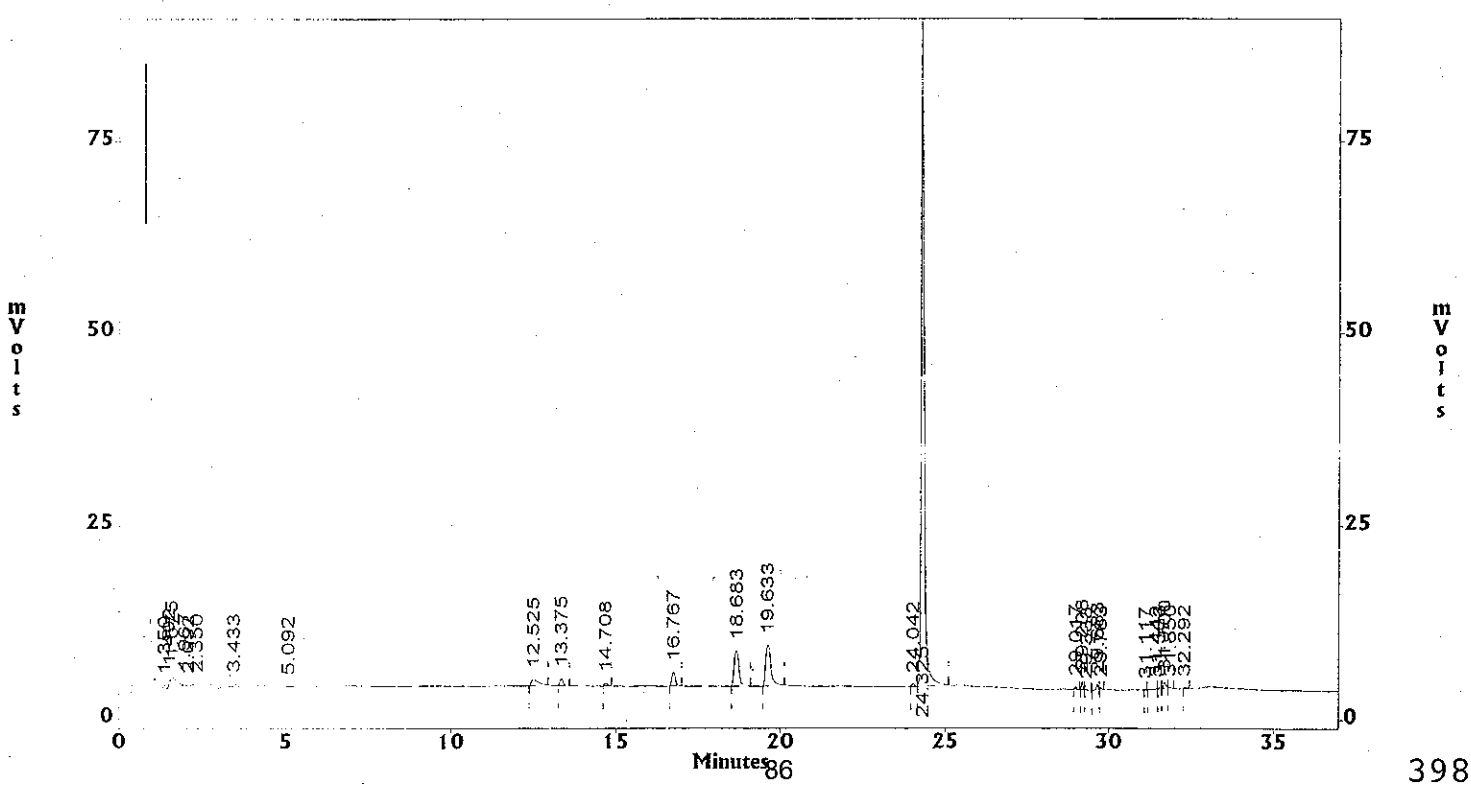
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p10
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 10ppm gc17090
Acquired : Dec 08, 2004 20:46:16
Printed : Dec 15, 2004 16:35:44
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
13	6 MCPP(ppm)	18.68	44318	4555	3.297474	10.00
14	7 MCPA(PPm)	19.63	58882	5263	4.736005	10.00
16	10 DBOB (IS)	24.33	507425	86778	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p10 -- Channel A

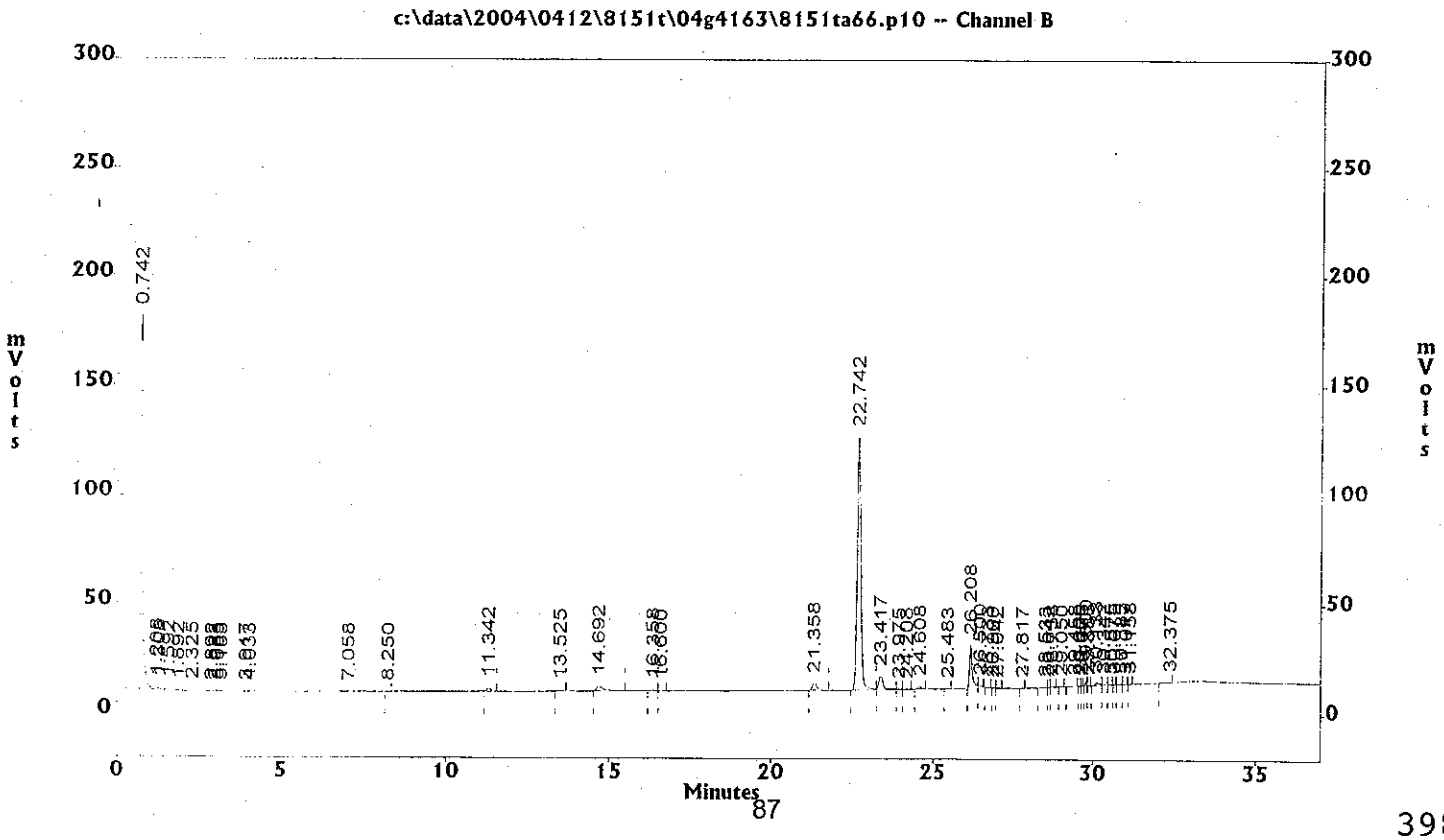


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p10
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 10ppm gc17090
Acquired : Dec 08, 2004 20:46:16
Printed : Dec 15, 2004 16:35:44
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
20	6 MCPP (ppm)	21.36	30118	3235	0.934563	10.00
21	7 DBOB (IS)	22.74	889866	115567	1.000000	250.00
22	8 MCPA (ppm)	23.42	47547	5775	1.697036	10.00



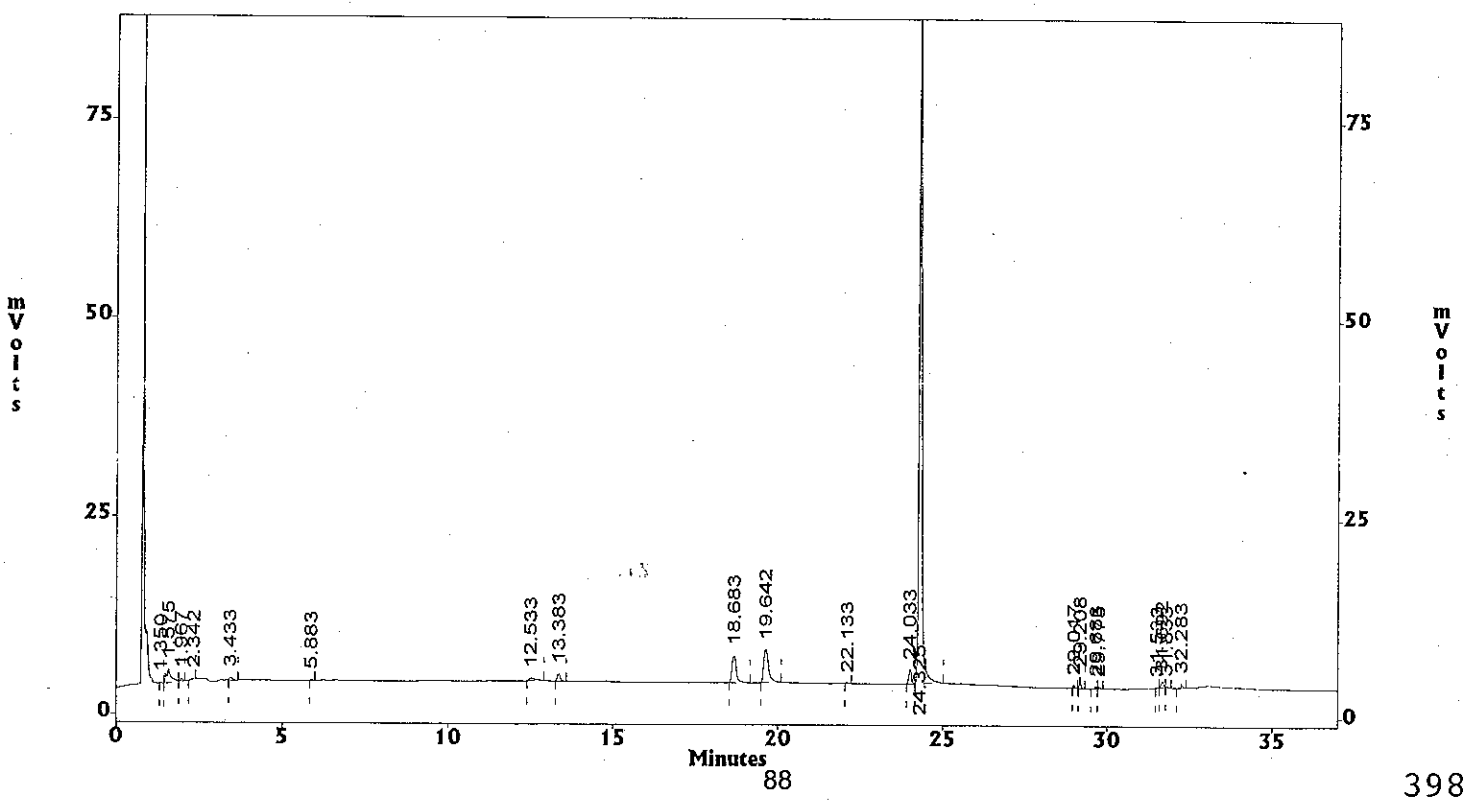
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.icv
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : icv gc17096
Acquired : Dec 08, 2004 21:27:01
Printed : Jan 12, 2005 15:46:48
User : System

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
9	6 MCPP(ppm)	18.68	30398	3399	3.297474	5.95
10	7 MCPA(PPm)	19.64	42904	4163	4.736005	4.78
13	10 DBOB (IS)	24.33	473872	83852	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.icv -- Channel A



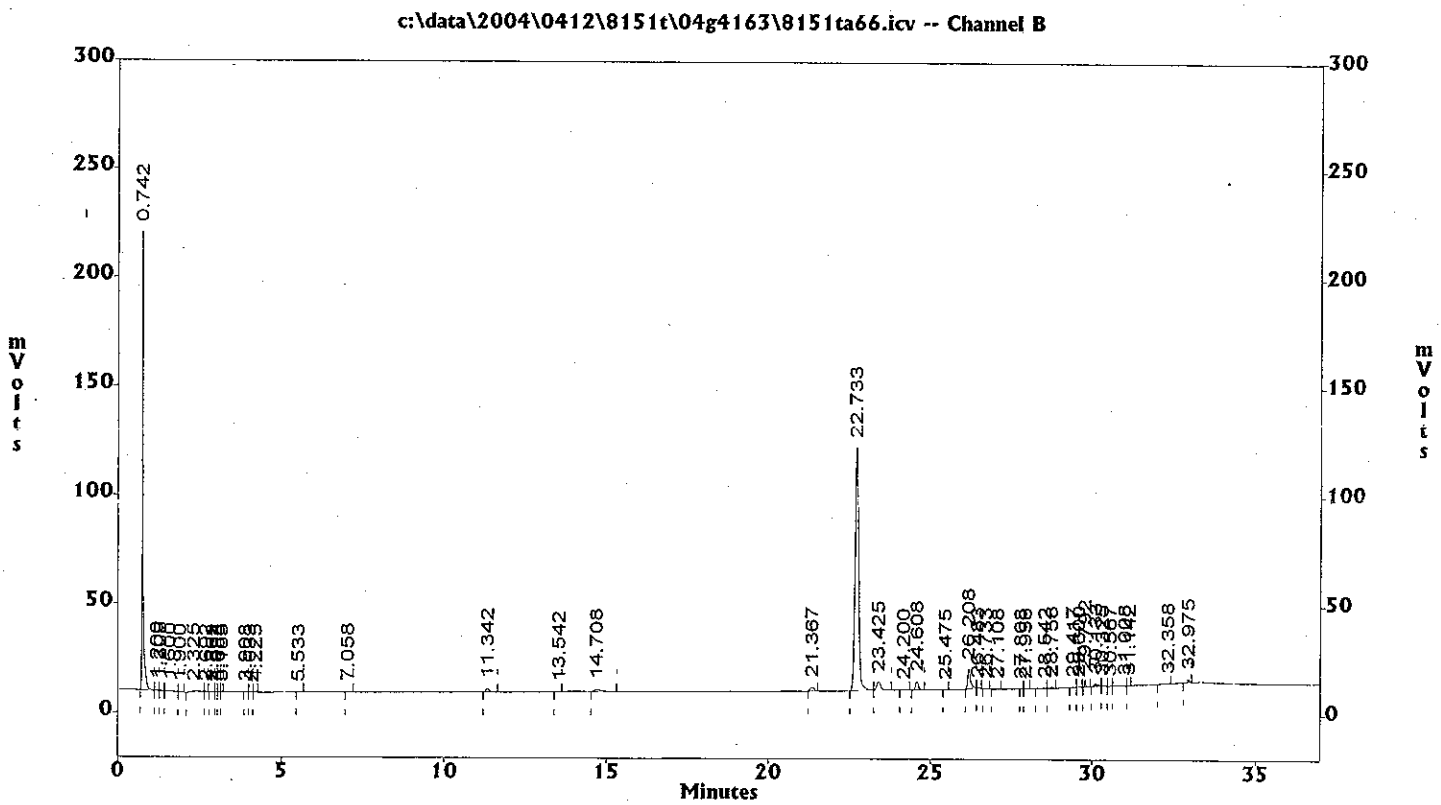
3989

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.icv
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : icv gc17096
Acquired : Dec 08, 2004 21:27:01
Printed : Jan 12, 2005 15:46:48
User : System

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
20	6 MCPP (ppm)	21.37	14359	1782	0.934563	4.61
21	7 DBOB (IS)	22.73	869904	111832	1.000000	250.00
22	8 MCPA (ppm)	23.42	30328	3853	1.697035	5.14



3990

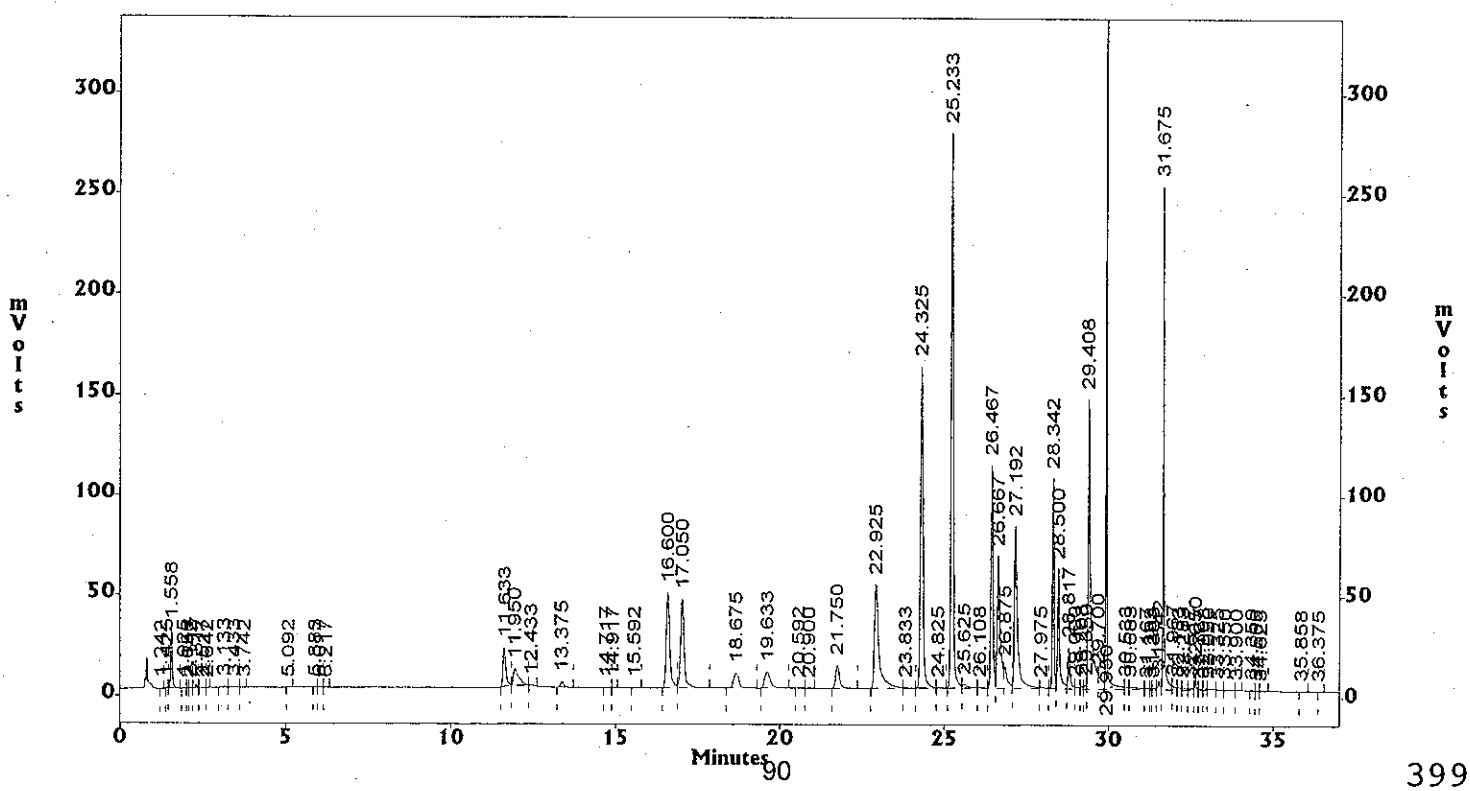
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : ##04g4163,S gc16862
Acquired : Dec 09, 2004 02:12:22
Printed : Jan 12, 2005 15:02:25
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	89297	28933	0.100089	251.28
17	2	3,5-Di-Cl-Bz acid	11.63	118090	19380	0.135160	246.08
18	3	4-Nitrophenol	11.95	87808	8238	0.097400	253.91
24	4	DCAA(Surr)	16.60	356913	47230	0.082534	1217.97
25	5	Dicamba	17.05	318278	43903	0.361851	247.73
26	6	MCPP(ppm)	18.67	79752	7287	1.245882	29.10
27	7	MCPA(PPm)	19.63	96612	8021	1.625503	27.31
30	8	Dichloroprop	21.75	97889	11611	0.109593	251.57
31	9	2,4-D (m)	22.92	494053	51653	0.113391	1227.16
33	10	DBOB (IS)	24.33	887637	160274	1.000000	250.00
35	11	Pentachlorphenol	25.23	1310672	276181	1.488131	248.06
38	12	Silvex (m)	26.47	497166	110930	0.555162	252.22
39	13	Chloramben	26.67	407682	65919	0.465274	246.78
41	14	2,4,5-T (m)	27.19	539395	80858	0.614194	247.35
43	15	Dinoseb	28.34	342190	104688	0.381891	252.37
44	16	2,4-DB	28.50	248165	59607	0.054770	1276.14
45	17	Bentazon	28.82	84954	20426	0.112912	241.44
49	18	Picloram	29.41	732470	144287	0.755629	273.01
51	19	DCPA	29.95	791048	333804	0.897252	248.31
58	20	Acifluorfen	31.67	560475	250600	0.617056	255.82

c:\data\2004\0412\8151t\04g4163\4163g.q01 -- Channel A



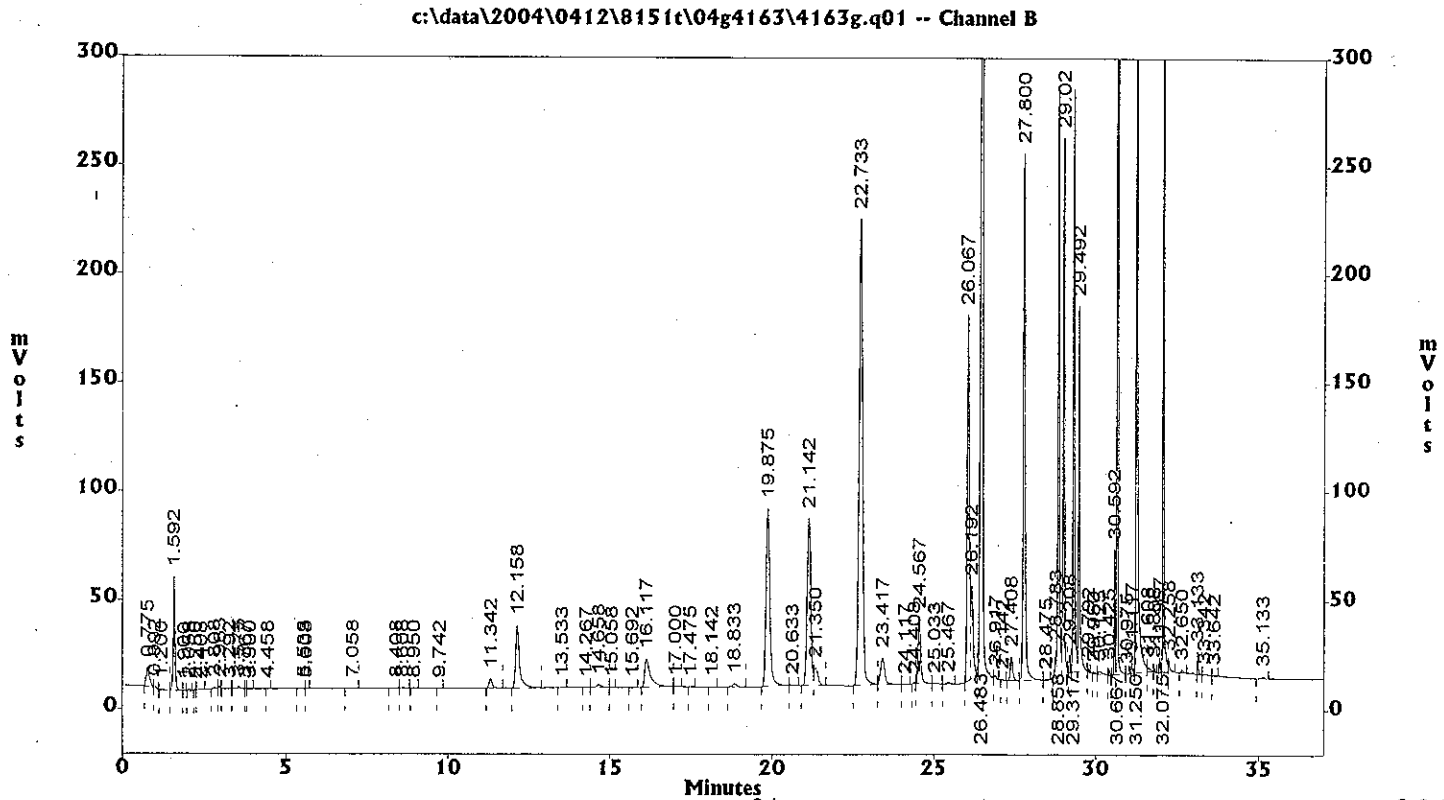
3991

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : ##04g4163,S gc16862
Acquired : Dec 09, 2004 02:12:22
Printed : Jan 12, 2005 15:02:25
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
4	1	Dalapon	1.59	192372	52252	0.126755	235.26
24	2	3,5-Di-Cl-Bz acid	12.16	241401	28773	0.154483	242.23
30	3	4-Nitrophenol	16.12	159724	13100	0.093535	264.71
35	4	DCAA (surr)	19.88	678060	81726	0.088093	1193.18
37	5	Dicamba	21.14	592297	76985	0.371609	247.08
38	6	MCPP (ppm)	21.35	70588	7929	0.511087	27.13
39	7	DBOB (IS)	22.73	1612729	214527	1.000000	250.00
40	8	MCPA (ppm)	23.42	101678	12135	0.839008	26.17
43	9	Dichloroprop	24.57	174080	29880	0.113524	237.71
46	10	2,4-D (m)	26.07	775681	168507	0.094967	1266.17
48	11	Pentachlorphenol	26.48	2460445	573468	1.572894	242.49
52	12	Silvex (m)	27.80	1018812	242790	0.632949	249.52
55	13	2,4,5-T (m)	28.86	883107	269325	0.557553	245.53
56	14	Dinoseb	29.02	720079	247354	0.471303	236.84
58	15	Chloramben	29.32	804980	268571	0.478771	260.64
59	16	2,4-DB	29.49	486686	168317	0.067091	1124.50
64	17	Bentazon	30.59	112135	57726	0.071389	243.49
65	18	DCPA	30.67	1394646	688929	0.864605	250.05
68	19	Picloram	31.25	1566925	600266	0.849758	285.85
72	20	Acifluorfen	32.08	1083485	552562	0.656098	256.00



3992

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q01
ID: ##04g4163,S gc16862 -- Dec 09, 2004 02:12:22
Printed: Jan 12, 2005 15:46:07

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	251.277	0.511	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	246.077	1.569	15.000	Passed
3 4-Nitrophenol	250.000	253.909	1.564	15.000	Passed
4 DCAA(Surr)	1200.000	1217.966	1.497	15.000	Passed
5 Dicamba	250.000	247.731	0.907	15.000	Passed
6 MCPP(ppm)	25.000	29.099	16.395	15.000	Failed
7 MCPA(PPm)	25.000	27.306	9.223	15.000	Passed
8 Dichloroprop	250.000	251.569	0.628	15.000	Passed
9 2,4-D (m)	1250.000	1227.155	1.828	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	248.061	0.776	15.000	Passed
12 Silvex (m)	250.000	252.224	0.890	15.000	Passed
13 Chloramben	250.000	246.784	1.286	15.000	Passed
14 2,4,5-T (m)	250.000	247.347	1.061	15.000	Passed
15 Dinoseb	250.000	252.367	0.947	15.000	Passed
16 2,4-DB	1250.000	1276.145	2.092	15.000	Passed
17 Bentazon	250.000	241.443	3.423	15.000	Passed
18 Picloram	250.000	273.015	9.206	15.000	Passed
19 DCPA	250.000	248.309	0.676	15.000	Passed
20 Acifluorfen	250.000	255.821	2.328	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	235.264	5.895	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.235	3.106	15.000	Passed
3 4-Nitrophenol	250.000	264.712	5.885	15.000	Passed
4 DCAA (surr)	1200.000	1193.182	0.568	15.000	Passed
5 Dicamba	250.000	247.077	1.169	15.000	Passed
6 MCPP (ppm)	25.000	27.129	8.517	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	26.174	4.697	15.000	Passed
9 Dichloroprop	250.000	237.706	4.918	15.000	Passed
10 2,4-D (m)	1250.000	1266.166	1.293	15.000	Passed
11 Pentachlorphenol	250.000	242.489	3.004	15.000	Passed
12 Silvex (m)	250.000	249.519	0.192	15.000	Passed
13 2,4,5-T (m)	250.000	245.531	1.788	15.000	Passed
14 Dinoseb	250.000	236.842	5.263	15.000	Passed
15 Chloramben	250.000	260.637	4.255	15.000	Passed

16 2,4-DB	1250.000	1124.503	10.040	15.000	Passed
17 Bentazon	250.000	243.494	2.602	15.000	Passed
18 DCPA	250.000	250.049	0.020	15.000	Passed
19 Picloram	250.000	285.846	14.338	15.000	Passed
20 Acifluorfen	250.000	255.996	2.398	15.000	Passed

Signature _____

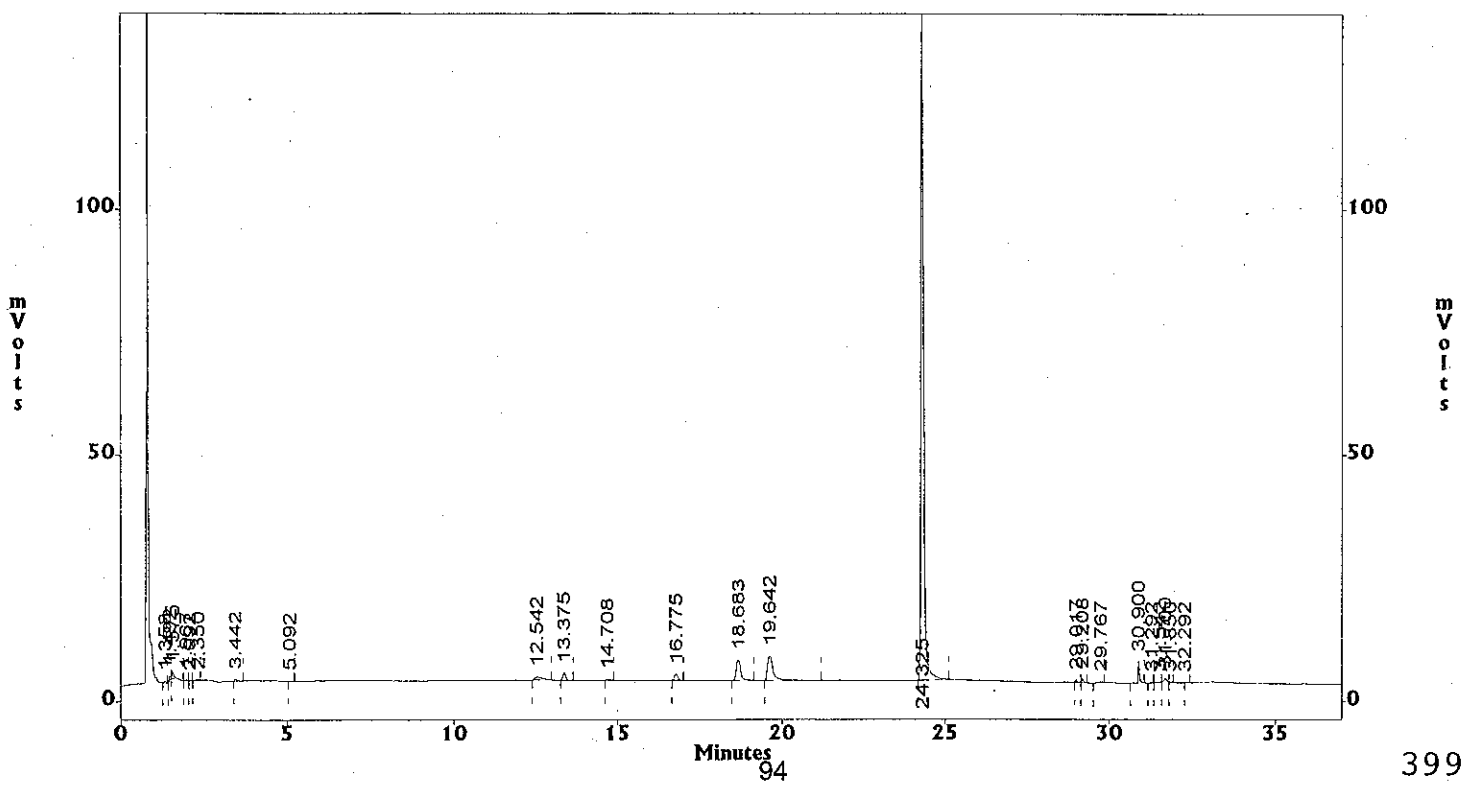
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 02:53:03
Printed : Jan 12, 2005 15:02:27
User : System

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
13	6 MCPP(ppm)	18.68	40462	4177	3.297474	4.31
14	7 MCPA(PPm)	19.64	60762	4989	4.736005	4.20
15	10 DBOB (IS)	24.33	763091	135747	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\4163g.q02 -- Channel A



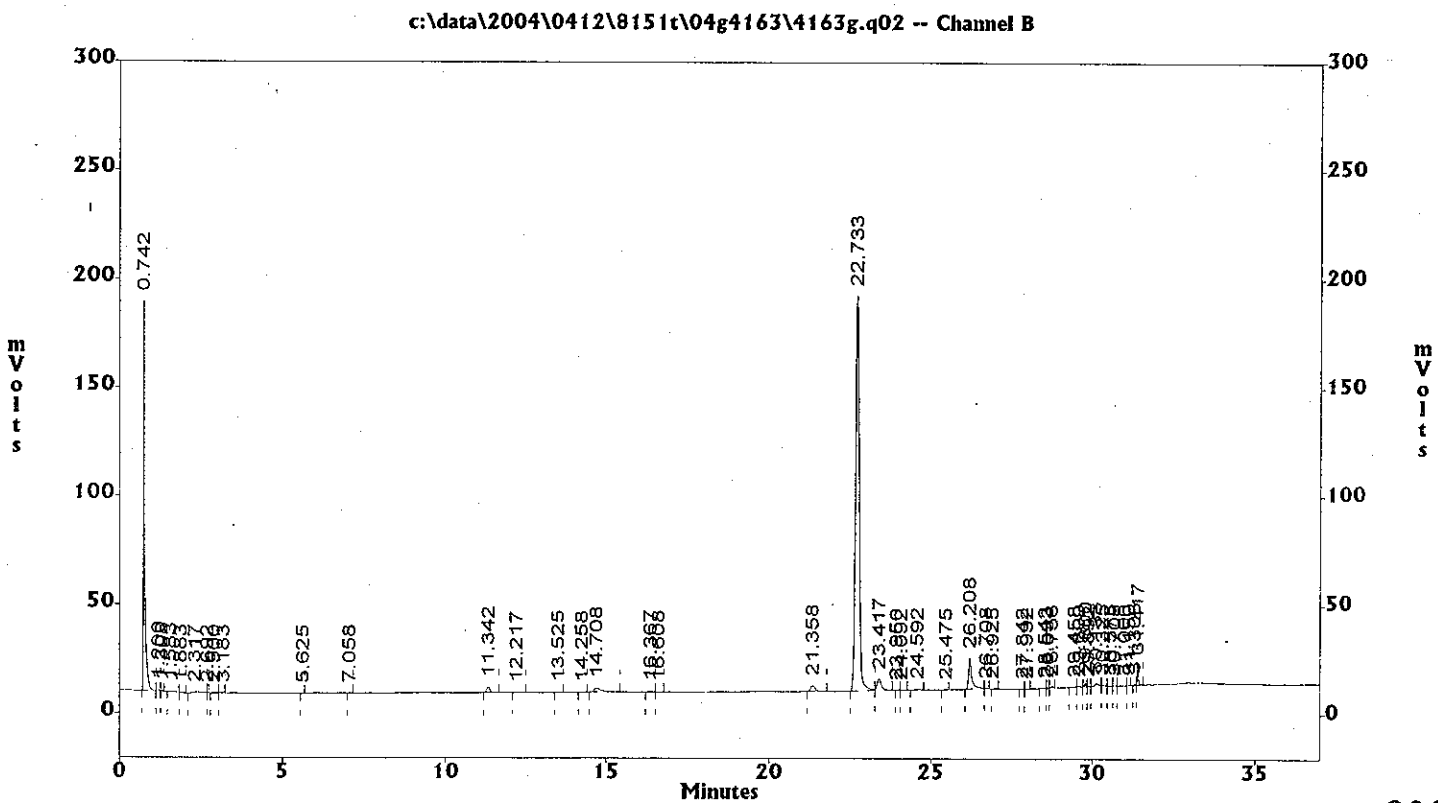
3995

Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 02:53:03
Printed : Jan 12, 2005 15:02:27
User : System

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
19	6 MCPP (ppm)	21.36	24521	2641	0.934563	4.89
20	7 DBOB (IS)	22.73	1409088	181820	1.000000	250.00
21	8 MCPA (ppm)	23.42	45575	5144	1.697035	4.76



3996

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q02
ID: 5ppm gc17092 -- Dec 09, 2004 02:53:03
Printed: Jan 12, 2005 15:46:28

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.311	13.774	15.000	Passed
7 MCPA(PPm)	5.000	4.203	15.935	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.886	2.285	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.765	4.706	15.000	Passed

Signature _____

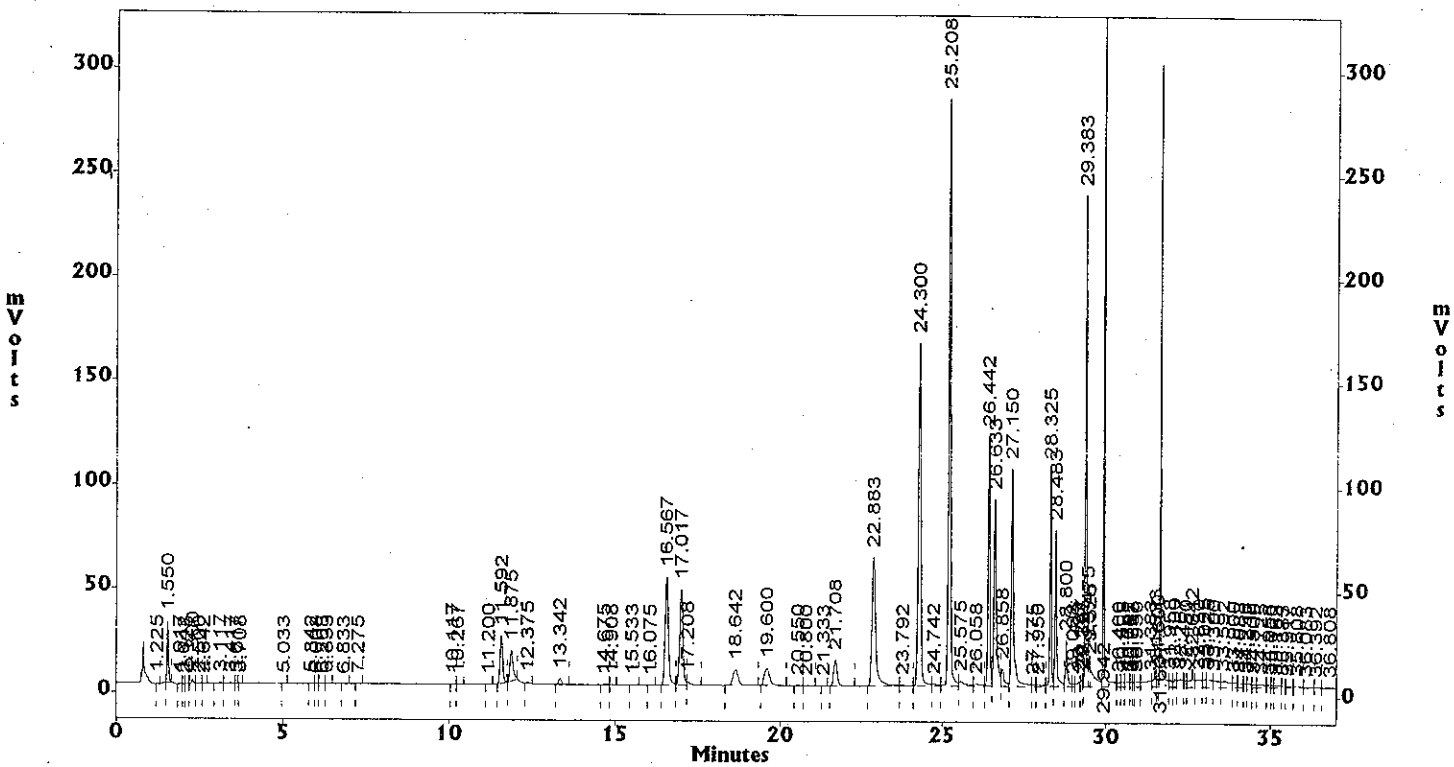
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q03
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 09, 2004 13:42:09
Printed : Jan 12, 2005 16:13:08
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.55	88336	29487	0.100089	249.23
23	2	3,5-Di-Cl-Bz acid	11.59	126781	22874	0.135160	264.88
24	3	4-Nitrophenol	11.88	91411	14648	0.097400	265.02
31	4	DCAA(Surr)	16.57	363793	51801	0.082534	1244.70
32	5	Dicamba	17.02	310320	46043	0.361851	242.17
34	6	MCPP(ppm)	18.64	83155	7545	1.245882	31.87
35	7	MCPA(PPm)	19.60	96771	8274	1.625503	27.59
39	8	Dichloroprop	21.71	98195	12417	0.109593	253.02
40	9	2,4-D (m)	22.88	496195	61693	0.113391	1235.71
42	10	DBOB (IS)	24.30	885314	164693	1.000000	250.00
44	11	Pentachlorphenol	25.21	1314225	282223	1.488131	249.39
47	12	Silvex (m)	26.44	507759	119811	0.555162	258.27
48	13	Chloramben	26.63	454391	89835	0.465274	275.78
50	14	2,4,5-T (m)	27.15	533337	104168	0.614194	245.21
53	15	Dinoseb	28.33	334481	104367	0.381891	247.33
54	16	2,4-DB	28.48	264914	75059	0.054770	1365.85
55	17	Bentazon	28.80	85417	21979	0.112912	243.71
60	18	Picloram	29.38	721437	236103	0.755629	269.61
63	19	DCPA	29.94	715676	321857	0.897252	225.24
73	20	Acifluorfen	31.67	578750	298988	0.617056	264.86

c:\data\2004\0412\8151t\04g4163\4163g.q03 -- Channel A



3998

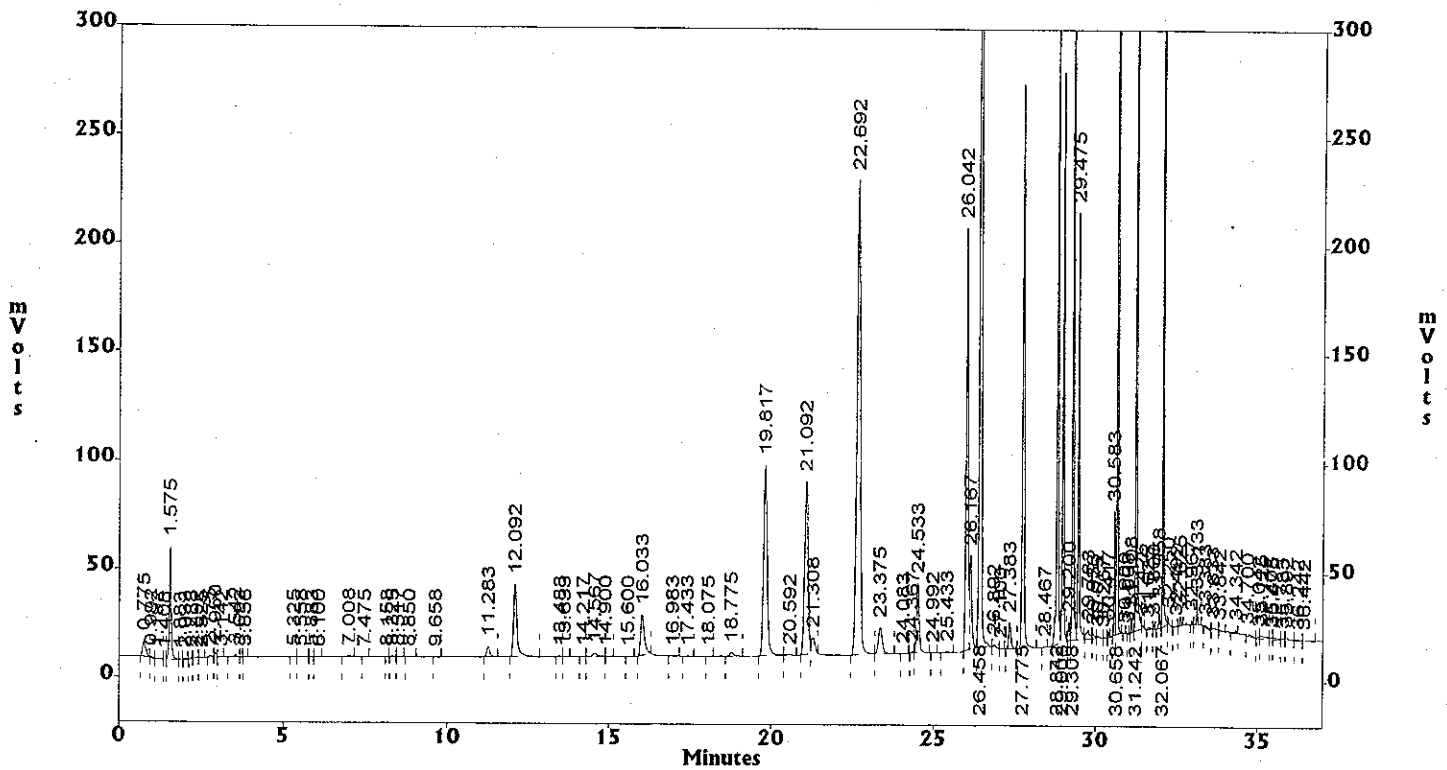
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q03
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 09, 2004 13:42:09
Printed : Jan 12, 2005 16:13:08
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.58	194509	51951	0.126755	232.04
29	2	3,5-Di-Cl-Bz acid	12.09	249862	33325	0.154483	244.57
36	3	4-Nitrophenol	16.03	152805	18880	0.093535	247.03
41	4	DCAA (surr)	19.82	696943	88074	0.088093	1196.30
43	5	Dicamba	21.09	604981	79716	0.371609	246.17
44	6	MCPP (ppm)	21.31	62196	7413	0.511087	21.78
45	7	DBOB (IS)	22.69	1653322	218846	1.000000	250.00
46	8	MCPA (ppm)	23.38	101015	12196	0.839008	24.82
49	9	Dichloroprop	24.53	176013	31740	0.113524	234.44
52	10	2,4-D (m)	26.04	842439	194447	0.094967	1341.37
54	11	Pentachlorphenol	26.46	2498222	584601	1.572894	240.17
58	12	Silvex (m)	27.77	1013119	259618	0.632949	242.03
60	13	2,4,5-T (m)	28.84	959618	310029	0.557553	260.25
61	14	Dinoseb	29.01	706175	262566	0.471303	226.57
63	15	Chloramben	29.31	852332	320746	0.478771	269.19
64	16	2,4-DB	29.48	487831	196771	0.067091	1099.47
70	17	Bentazon	30.58	109403	57060	0.071389	231.73
71	18	DCPA	30.66	1374158	702486	0.864605	240.33
75	19	Picloram	31.24	1611369	804231	0.849758	286.74
80	20	Acifluorfen	32.07	1055327	609551	0.656098	243.22

c:\data\2004\0412\8151t\04g4163\4163g.q03 -- Channel B



3999

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q03
ID: 250ppb gc16862 -- Dec 09, 2004 13:42:09
Printed: Jan 12, 2005 16:13:11

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	249.225	0.310	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	264.881	5.952	15.000	Passed
3 4-Nitrophenol	250.000	265.021	6.008	15.000	Passed
4 DCAA(Surr)	1200.000	1244.701	3.725	15.000	Passed
5 Dicamba	250.000	242.171	3.132	15.000	Passed
6 MCPP(ppm)	25.000	31.865	27.460	15.000	Failed
7 MCPA(PPm)	25.000	27.593	10.372	15.000	Passed
8 Dichloroprop	250.000	253.018	1.207	15.000	Passed
9 2,4-D (m)	1250.000	1235.710	1.143	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	249.386	0.246	15.000	Passed
12 Silvex (m)	250.000	258.274	3.310	15.000	Passed
13 Chloramben	250.000	275.781	10.312	15.000	Passed
14 2,4,5-T (m)	250.000	245.210	1.916	15.000	Passed
15 Dinoseb	250.000	247.329	1.068	15.000	Passed
16 2,4-DB	1250.000	1365.848	9.268	15.000	Passed
17 Bentazon	250.000	243.711	2.516	15.000	Passed
18 Picloram	250.000	269.608	7.843	15.000	Passed
19 DCPA	250.000	225.240	9.904	15.000	Passed
20 Acifluorfen	250.000	264.856	5.942	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	232.037	7.185	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.569	2.172	15.000	Passed
3 4-Nitrophenol	250.000	247.027	1.189	15.000	Passed
4 DCAA (surr)	1200.000	1196.299	0.308	15.000	Passed
5 Dicamba	250.000	246.172	1.531	15.000	Passed
6 MCPP (ppm)	25.000	21.782	12.872	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	24.822	0.711	15.000	Passed
9 Dichloroprop	250.000	234.445	6.222	15.000	Passed
10 2,4-D (m)	1250.000	1341.374	7.310	15.000	Passed
11 Pentachlorphenol	250.000	240.167	3.933	15.000	Passed
12 Silvex (m)	250.000	242.033	3.187	15.000	Passed
13 2,4,5-T (m)	250.000	260.253	4.101	15.000	Passed
14 Dinoseb	250.000	226.566	9.374	15.000	Passed
15 Chloramben	250.000	269.193	7.677	15.000	Passed

16	2,4-DB	1250.000	1099.475	12.042	15.000	Passed
17	Bentazon	250.000	231.729	7.308	15.000	Passed
18	DCPA	250.000	240.326	3.869	15.000	Passed
19	Picloram	250.000	286.736	14.694	15.000	Passed
20	Acifluorfen	250.000	243.221	2.712	15.000	Passed

Signature _____

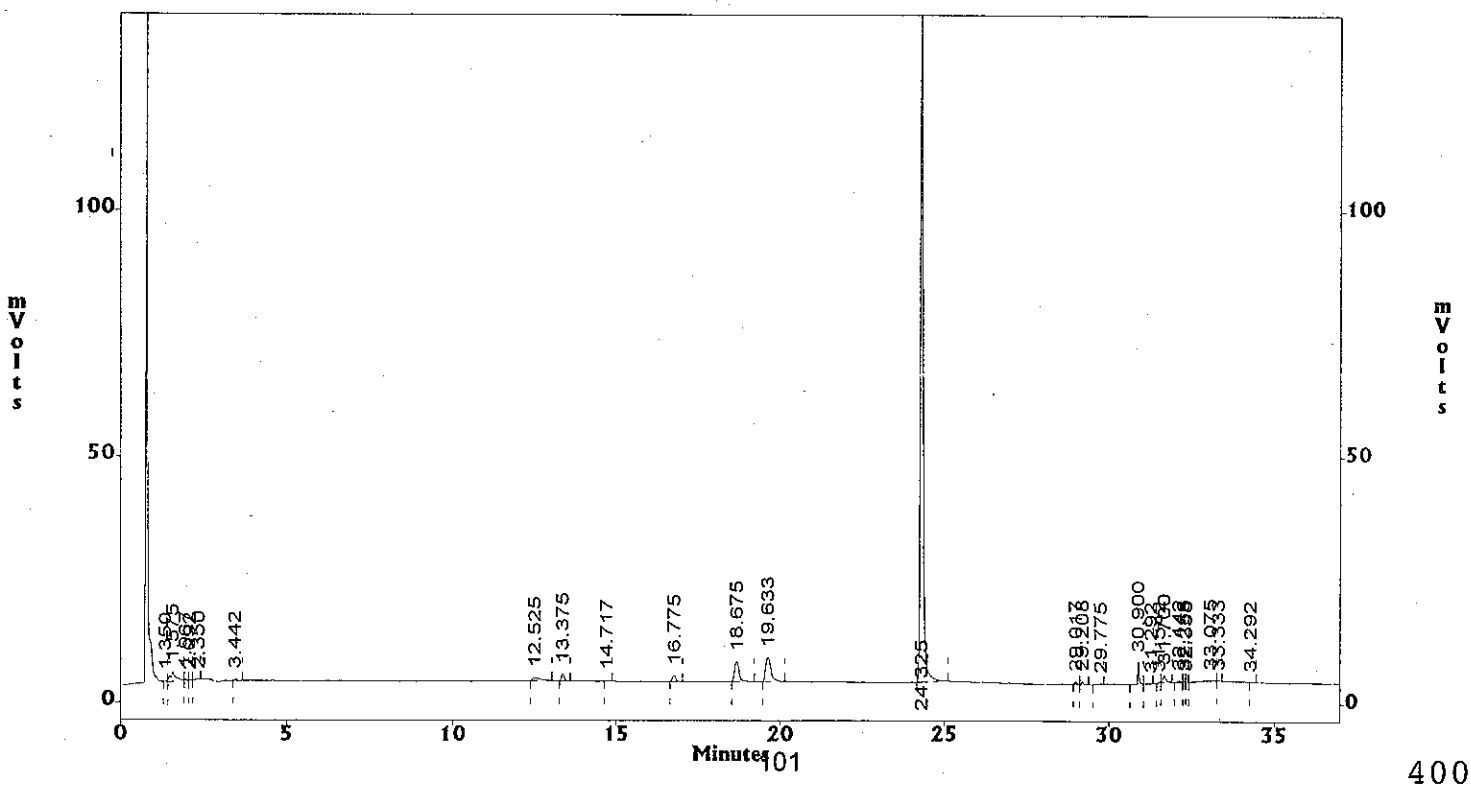
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q04
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 15:03:35
Printed : Jan 12, 2005 15:03:20
User : System

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
11	6 MCPP(ppm)	18.67	38648	4065	3.297474	4.07
12	7 MCPA(PPm)	19.63	52549	4879	4.736005	3.68
13	10 DBOB (IS)	24.33	754278	135623	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\4163g.q04 -- Channel A

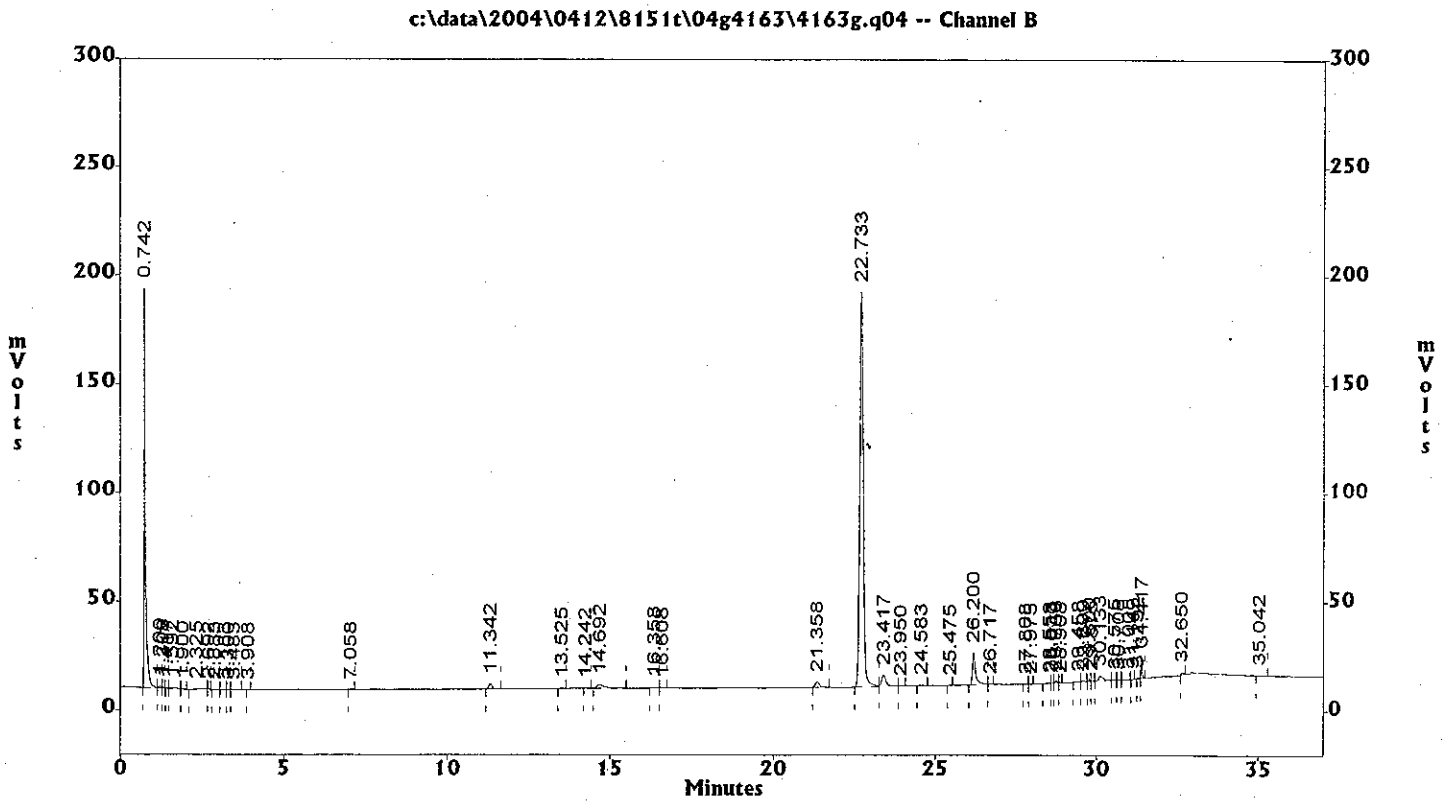


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q04
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 15:03:35
Printed : Jan 12, 2005 15:03:20
User : System

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF,	ISTD (ppb)
21	6 MCPP (ppm)	21.36	23221	2590	0.934563	4.65
22	7 DBOB (IS)	22.73	1396729	181719	1.000000	250.00
23	8 MCPA (ppm)	23.42	45802	5139	1.697035	4.83



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q04
ID: 5ppm gc17092 -- Dec 09, 2004 15:03:35
Printed: Jan 12, 2005 15:58:33

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.073	18.536	15.000	Failed
7 MCPA(PPm)	5.000	3.678	26.449	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.648	7.049	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.831	3.383	15.000	Passed

Signature _____

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Herbicides by GC/ECD

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX153[0.5]	176248-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
CHLORINATED HERBICIDES (EPA 8151)

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 11/23/04. The sample was received cold and intact.

Chlorinated Herbicides (EPA 8151):

APCL in Chino, CA performed the analysis. Please see the APCL case narrative.

Curtis & Tompkins, Ltd

Chain of Custody

176 248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2393.12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	PCB	Pesticides	VOCs	SVOCs	mercury	Chlor. Herb.	TPH	TPHg	Silica gel clean-up	Hold	Remarks
1 BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X									~~MS/MSD~~
2 DUP112304A		1242		X						1		X	X	X									
3 BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X		X	* 5 day TAT MS/MSD
4 BB3EX151[0.5]		1254		X						1		X	X	X									
5 BB3EX152[0.5]		1257		X						1		X	X	X									MS/MSD
6 TB112304A		1315		X			2								X								

Sand
Sand
Sand
chart
chart

LEVEL IV data package
sample all times, and labeled from end with a "B"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/23/04	1455	Tony Page	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/22/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____
_____
_____
_____
_____
_____

CHLORINATED HERBICIDES

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Curtis & Tompkins
Attention: Steve Stanley
2323 Fifth Street
Berkeley CA 94710
Tel: (510)486-0900 Fax: (510)486-0532

Service ID #: 801-045566
Collected by:
Collected on: 11/23/04

Received: 11/30/04
Extracted: 12/03/04
Tested: 11/30-12/09/04
Reported: 12/14/04

Sample Description: Soil
Project Description: 176248 Presidio

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result BB3EX153[0.5] 04-05566-1
MOISTURE	ASTM-D2216	%Moisture	0.5	2.3
CHLORINATED HERBICIDES				
Dilution Factor				1
2,4-D	8151A	mg/kg	0.025	<0.026
2,4 DB	8151A	mg/kg	0.1	<0.10
DALAPON	8151A	mg/kg	0.1	<0.10
DICAMBA	8151A	mg/kg	0.01	<0.010
DICHLOROPROP	8151A	mg/kg	0.025	<0.026
DINOSEB (DNBP)	8151A	mg/kg	0.025	<0.026
MCPA	8151A	mg/kg	5	<5.1
MCPP	8151A	mg/kg	5	<5.1
2,4,5-T	8151A	mg/kg	0.01	<0.010
2,4,5-TP (SILVEX)	8151A	mg/kg	0.01	<0.010

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Level D Data Package Deliverables

General Information

Project: 176248 Presidio

APCL Service ID: 04-5566

Applied P & CH Laboratories
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: Presidio/176248

For Curtis & Tompkins

APCL Service No: 04-5566

1. Sample Identification

The sample identifications are listed in the following table:

Curtis & Tompkins Sample ID	APCL Sample ID
BB3EX153[0.5]	04-05566-1

2. Analytical Methodology

Samples are analyzed by EPA methods

8151A (Chlorinated herbicides),
ASTM-D2216 (Moisture, percent in soil),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None

7. Note

All data for field and QC samples were reported from Channel "B".

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & CH Laboratories

RUSH

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

LEVEL IV

Project Number: 176248
Site: Presidio

Subcontract Laboratory:
APCL
13760 Magnolia Ave.
Chino, CA 91710
(909) 590-1828
ATTN: Kenny Chan x163

Results due: ~~11/29/04~~ 5-Working Days Report Level: IV

Please send report to: Steve Stanley
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
BB3EX153[0.5]	11/23 Side of Tube	Soil	8150	176248-003	Sample from 'B' ~~MS/MSD~~ SES 11/29/04

5568

Notes:	Relinquished By:	Received By:
Short QAPP list Flat File EDD	Date/Time: 11/29/04 1438	Date/Time: 11/30/04 0900

Signature on this form constitutes a firm Purchase Order for the services requested above.
Page 1 of 1

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 5586 **Client Name/Project:** CJT

1. Sample Arrival

Date/Time Received 11/30/04 0900 Date/Time Opened 11/30/04 0900 By (name): Jason N

Custody Transfer: ☐ Client ☐ Golden State ☒ UPS ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

Ca Over.

2. Chain-of-Custody (CoC)

☒ With Samples? ☐ Faxed? ☒ Client has Copy? ☒ Signed, dated? By: _____

☒ Project ID? ☒ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received _____

☒ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☒ #Samples OK? _____

☐ Sampled By : _____

3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3.0

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr

☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP

☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☒ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☐ plastic ☒ glass ☐ Tube: brass/SS ☐ Tedlar Bag

☒ Quantity OK? ☐ Leaking? ☐ Anomaly?

☒ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☒ Unique ID? ☒ Date/Time ☐ Preserved?

7. Turn Around Time

☒ RUSH TAT: 5 days ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☒ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____

☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☒ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: _____ Printed: 30 Nov 2004 7:25 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: {neal.texfiles}smprcl.tex.

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

04-05566 (0900_ 144) (4860900_ 144)

11/30/04

Part 1: General Information

☐	Company Information	Name:	*Curtis & Tompkins*
		Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
☐	Project Information	Project Description:	*Presidio*
		Project #:	*176248*
☐	Billing Information	P.O. #:	
		Bill Address:	*2323 Fifth Street ,Berkeley ,CA 94710*
		Lab Project ID:	
		Client Database #:	*1*
☐	Receiving Information	Who Received Sample?	*Jason Nario*
		Receiving Date/Time:	*11/30/04 0900*
		COC No.	
☐	Shipping Information	Shipping Company	*Express*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*3.0 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA D*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	BB3EX153[0.5]		04-05566-1	S	J		125	1	G	112304	N	0	7	☑

Part 3: Analysis Information

Test Items:

- ☐ *8141A* Phosphorus pesticides
- ☐ *8141A* Organo-phosphorus
- ☐ *8151A* Chlorinated herbicides
- ☐ *ASTM-D2216* Moisture, percent in soil
- ☐ *9040B/150.1* pH

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	8141A	8141A	8151A	moist	pH	
1	BB3EX153[0.5]		04-05566-1	S			X	X	X	☐

Login By JASON M. NARIO

Check By [illegible]

Level D Data Package Deliverables

Chlorinated Herbicides

Applied P & Ch Laboratory

Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176248	Collection Date:	12/01/2004
Project ID:	Presidio	Service ID:	45566	Collected by:	
		Lab Sample ID:	04G4163-MB-01	Received Date:	12/01/2004
Sample ID:	**04G4163-MB-01**	Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	03:33
Data File Name:	4163G.K01	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.025	<0.025	U
2	2,4 DB	94-82-6	mg/kg	0.1	<0.1	U
3	DALAPON	75-99-0	mg/kg	0.1	<0.1	U
4	DICAMBA	1918-00-9	mg/kg	0.01	<0.01	U
5	DICHLOROPROP	120-36-5	mg/kg	0.025	<0.025	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.025	<0.025	U
7	MCPA	94-74-6	mg/kg	5	<5	U
8	MCPP	93-65-2	mg/kg	5	<5	U
9	2,4,5-T	93-76-5	mg/kg	0.01	<0.01	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.01	<0.01	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	94
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	90
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

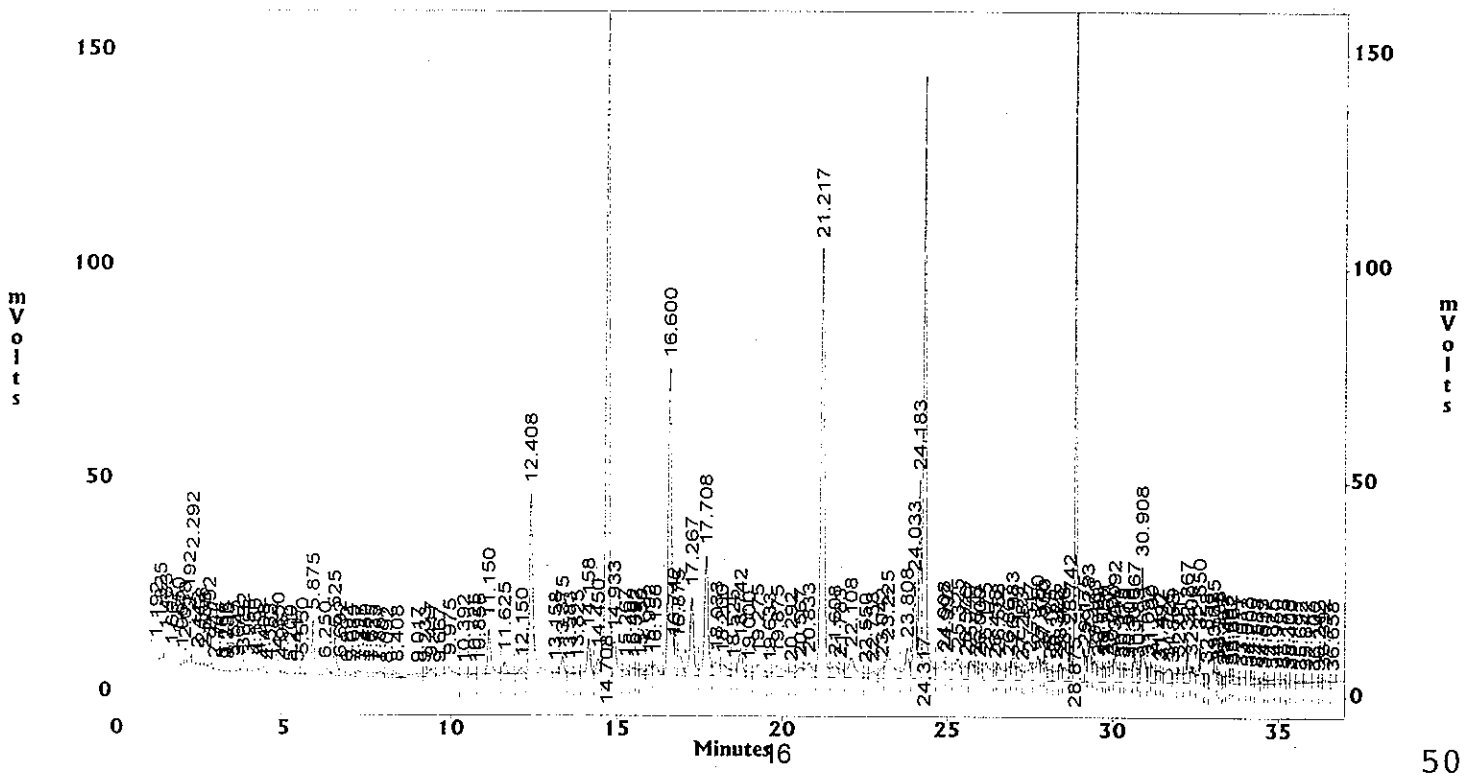
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.k01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : mb f=0.2
Acquired : Dec 09, 2004 03:33:47
Printed : Dec 10, 2004 09:53:38
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.48	25138	4897	0.101430	77.64
54	2	3,5-Di-Cl-Bz acid	11.63	19260	2744	0.136961	44.05
55	3	4-Nitrophenol	12.15	11497	1406	0.099783	36.09
71	4	DCAA(Surr)	16.60	500712	71932	0.083432	1880.04
--	5	Dicamba	17.08	0	0	0.000000	0.00
79	6	MCPP(ppm)	18.74	55255	6551	1.228394	15.71
82	7	MCPA(PPm)	19.63	7217	945	1.598133	0.00
89	8	Dichloroprop	21.78	17771	2061	0.106317	52.36
93	9	2,4-D (m)	23.04	21775	2514	0.110653	61.65
98	10	DBOB (IS)	24.32	798052	140693	1.000000	250.00
101	11	Pentachlorphenol	25.33	58512	4848	1.476711	12.41
107	12	Silvex (m)	26.46	13255	2540	0.554810	7.48
--	13	Chloramben	26.70	0	0	0.000000	0.00
111	14	2,4,5-T (m)	27.13	30666	3363	0.596850	16.10
118	15	Dinoseb	28.33	25517	2640	0.378307	21.13
120	16	2,4-DB	28.56	29889	3264	0.053067	176.44
--	17	Bentazon	28.82	0	0	0.000000	0.00
125	18	Picloram	29.48	40080	5045	0.733773	17.11
129	19	DCPA	30.00	25961	4138	0.869976	9.35
141	20	Acifluorfen	31.73	44445	3288	0.609087	22.86

c:\data\2004\0412\8151t\04g4163\4163g.k01 -- Channel A

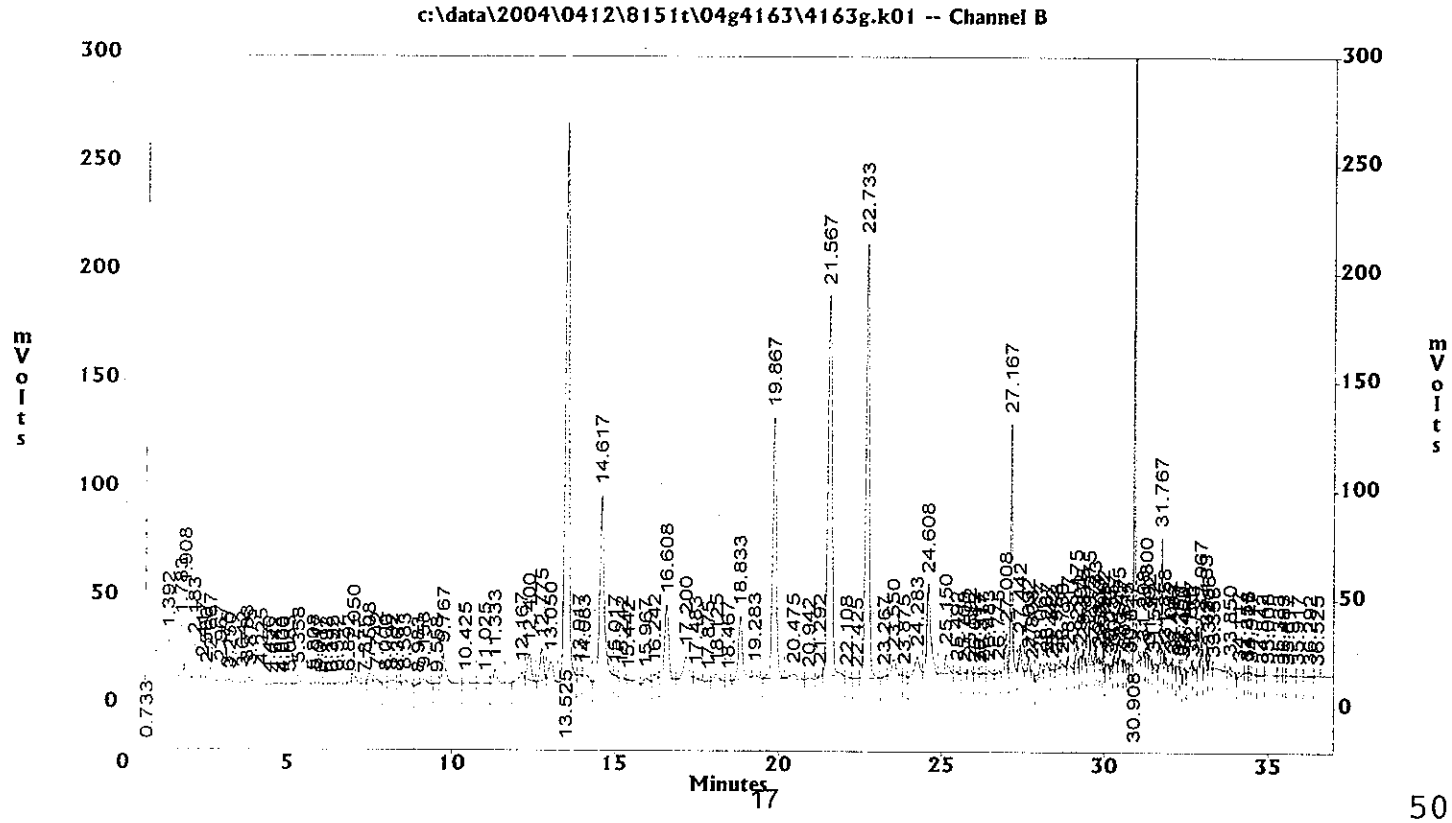


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.k01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : mb f=0.2
Acquired : Dec 09, 2004 03:33:47
Printed : Dec 10, 2004 09:53:40
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
--	1	Dalapon	1.60	0	0	0.000000	0.00
44	2	3,5-Di-Cl-Bz acid	12.17	32193	3279	0.154483	34.82
56	3	4-Nitrophenol	16.24	16608	2765	0.093535	29.67
65	4	DCAA (surr)	19.87	946042	120326	0.088093	1794.37
--	5	Dicamba	21.17	0	0	0.000000	0.00
68	6	MCPP (ppm)	21.29	9409	1340	0.511087	0.00
72	7	DBOB (IS)	22.73	1496229	200471	1.000000	250.00
74	8	MCPA (ppm)	23.55	67062	7604	0.839008	13.53
77	9	Dichloroprop	24.61	318994	41233	0.113524	469.50
82	10	2,4-D (m)	26.04	5568	978	0.094967	9.80
85	11	Pentachlorphenol	26.48	10816	1824	1.572894	1.15
91	12	Silvex (m)	27.81	9021	2380	0.632949	2.38
--	13	2,4,5-T (m)	28.86	0	0	0.000000	0.00
--	14	Dinoseb	29.03	0	0	0.000000	0.00
99	15	Chloramben	29.29	14531	4850	0.478771	5.07
--	16	2,4-DB	29.50	0	0	0.000000	0.00
110	17	Bentazon	30.62	6036	3040	0.071389	14.13
111	18	DCPA	30.73	8131	2985	0.864605	1.57
115	19	Picloram	31.30	38247	19225	0.849758	7.52
120	20	Acifluorfen	32.04	5324	2169	0.656098	1.36



Applied P & CH Laboratories

Organic Analysis Results for Method 8151A

Client Name:	Curtis & Tompkins	Project No:	176248	Collection Date:	11/23/2004
Project ID:	Presidio	Service ID:	45566	Collected by:	
		Lab Sample ID:	04-5566-1	Received Date:	11/30/2004
Sample ID:	**BB3EX153[0.5]**	Sample Matrix	Soil	Moisture %:	2.3
Sample Type:	Field Sample	Prep. Method:	8151	Instrument ID:	GC: T
Anal. Method:	8151A	Prep. Date:	12/01/04	Anal. Date:	12/09/04
Batch No:	04G4163	Prep. No:	1 of 1	Anal. Time:	06:16
Data File Name:	5566.001	Sample Amount:	50.0 g	Dilution Factor:	1
Extract Vol.	10. mL				

#	Component Name	CAS No	Unit	RL	Result	Qualifier
1	2,4-D	94-75-7	mg/kg	0.026	<0.026	U
2	2,4 DB	94-82-6	mg/kg	0.10	<0.10	U
3	DALAPON	75-99-0	mg/kg	0.10	<0.10	U
4	DICAMBA	1918-00-9	mg/kg	0.010	<0.010	U
5	DICHLOROPROP	120-36-5	mg/kg	0.026	<0.026	U
6	DINOSEB (DNBP)	88-85-7	mg/kg	0.026	<0.026	U
7	MCPA	94-74-6	mg/kg	5.1	<5.1	U
8	MCPP	93-65-2	mg/kg	5.1	<5.1	U
9	2,4,5-T	93-76-5	mg/kg	0.010	<0.010	U
10	2,4,5-TP (SILVEX)	93-72-1	mg/kg	0.010	<0.010	U

Surrogates		Control Limit, %	Surro. Rec.%
1 2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	65-135	80
# of out-of-control			0

Internal Standard		Control Limit, %	IS Rec.%
1 4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	50-200	89
# of out-of-control			0

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Qualifier: U - Not Detected or less than MDL
J - Less than RL (PQL, EQL or CRDL), but greater than MDL, or an estimated result (e.g. for TIC)
E - Exceed calibration range
B - A positive value was found in the method blank
D - Diluted

Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

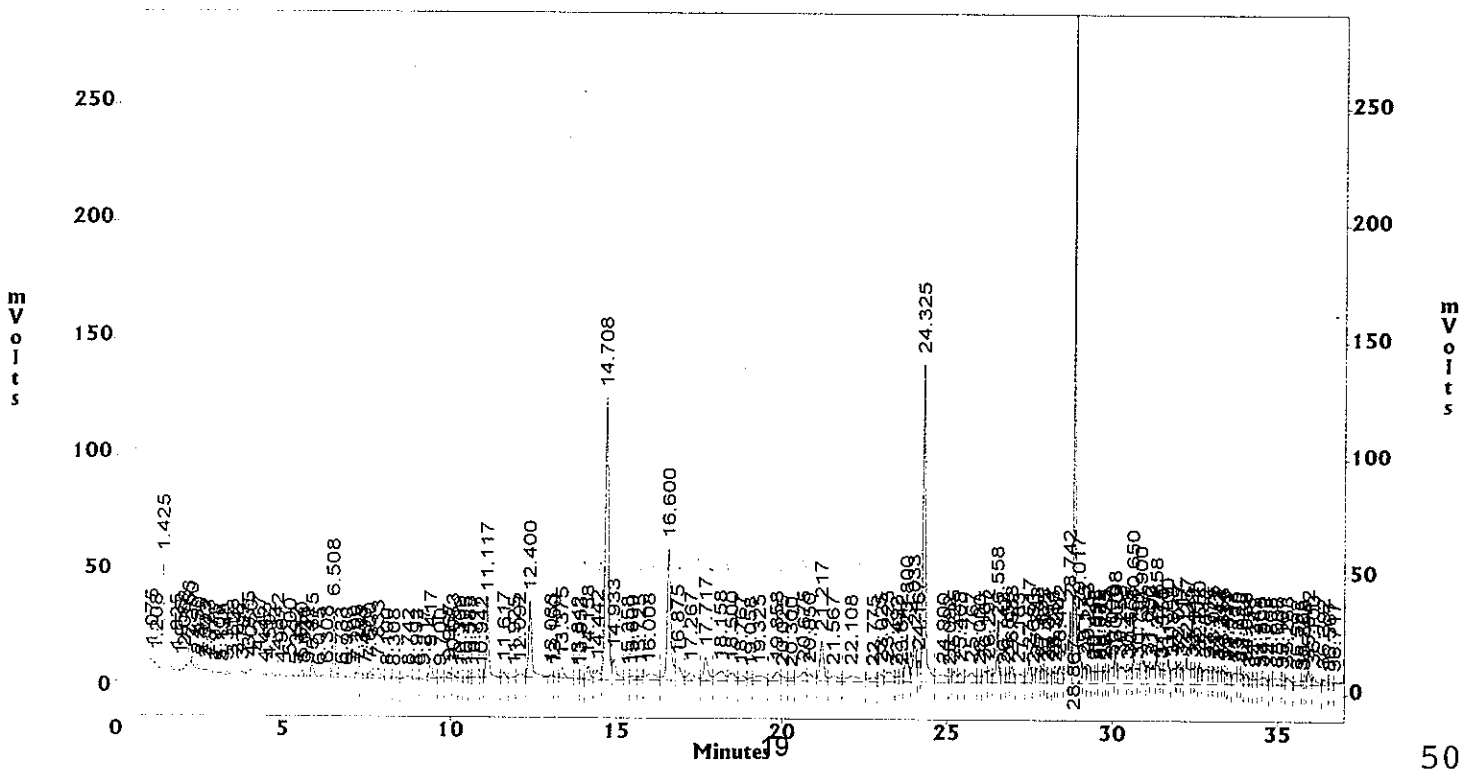
File : c:\data\2004\0412\8151t\04g4163\5566.001
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 5566-01 f=0.2
Acquired : Dec 09, 2004 06:16:36
Printed : Dec 10, 2004 13:40:05
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.42	197613	45824	0.101430	~~618.16~~
59	2	3,5-Di-Cl-Bz acid	11.62	13631	2396	0.136961	~~31.58~~
60	3	4-Nitrophenol	11.93	1449	182	0.099783	4.61
76	4	DCAA(Surr)	16.60	422402	56020	0.083432	1606.39
--	5	Dicamba	17.08	0	0	0.000000	0.00
82	6	MCPP(ppm)	18.77	26530	2165	1.228394	0.00
--	7	MCPA(PPm)	19.64	0	0	0.000000	0.00
--	8	Dichloroprop	21.77	0	0	0.000000	0.00
94	9	2,4-D (m)	23.02	29219	3402	0.110653	~~83.78~~
101	10	DBOB (IS)	24.33	787925	136160	1.000000	250.00
104	11	Pentachlorphenol	25.23	39647	4867	1.476711	~~8.52~~
--	12	Silvex (m)	26.48	0	0	0.000000	0.00
111	13	Chloramben	26.74	28678	3275	0.461232	~~19.73~~
114	14	2,4,5-T (m)	27.18	57805	3892	0.596850	~~30.73~~
122	15	Dinoseb	28.32	23088	4580	0.378307	~~19.36~~
123	16	2,4-DB	28.44	55315	7511	0.053067	~~330.73~~
125	17	Bentazon	28.87	913794	285639	0.101517	~~3679.85~~
129	18	Picloram	29.44	37854	5666	0.733773	~~16.37~~
--	19	DCPA	29.95	0	0	0.000000	0.00
147	20	Acifluorfen	31.70	70186	10566	0.609087	~~36.56~~

Connie
12-10-04

c:\data\2004\0412\8151t\04g4163\5566.001 -- Channel A



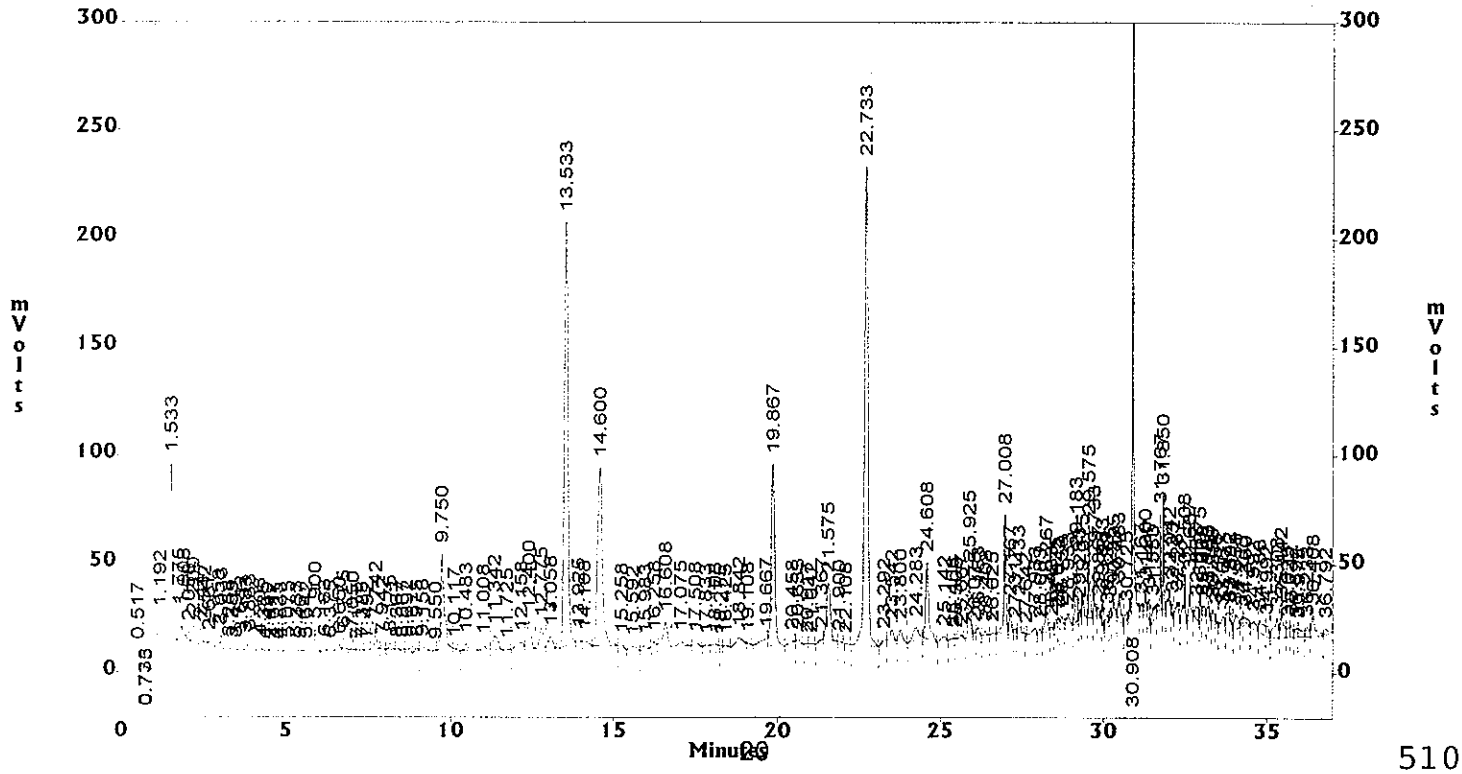
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\5566.001
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 5566-01 f=0.2
Acquired : Dec 09, 2004 06:16:36
Printed : Dec 10, 2004 13:40:06
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.53	301934	82004	0.126755	~~350.78~~
55	2	3,5-Di-Cl-Bz acid	12.16	25666	2268	0.154483	~~24.47~~
66	3	4-Nitrophenol	16.26	11133	1978	0.093535	~~17.53~~
77	4	DCAA (surr)	19.87	662297	83880	0.088093	1107.15
81	5	Dicamba	21.04	2615	452	0.371609	1.04
82	6	MCPP (ppm)	21.37	6862	817	0.511087	0.00
86	7	DBOB (IS)	22.73	1697649	221060	1.000000	250.00
88	8	MCPA (ppm)	23.54	36763	4757	0.839008	0.00
91	9	Dichloroprop	24.61	233105	35163	0.113524	~~302.38~~
97	10	2,4-D (m)	26.08	7275	1872	0.094967	~~11.28~~
99	11	Pentachlorphenol	26.41	10628	2238	1.572894	1.00
--	12	Silvex (m)	27.81	0	0	0.000000	0.00
--	13	2,4,5-T (m)	28.86	0	0	0.000000	0.00
--	14	Dinoseb	29.03	0	0	0.000000	0.00
116	15	Chloramben	29.38	41161	10562	0.478771	~~12.66~~
--	16	2,4-DB	29.50	0	0	0.000000	0.00
--	17	Bentazon	30.59	0	0	0.000000	0.00
125	18	DCPA	30.73	21947	3885	0.864605	3.74
128	19	Picloram	31.30	24439	9545	0.849758	4.24
133	20	Acifluorfen	32.04	42137	10058	0.656098	9.46

c:\data\2004\0412\8151t\04g4163\5566.001 -- Channel B



FORM-2D

Applied P & CH Laboratories

Surrogate Recovery Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		SDG Number:	045566
Project ID:	Presidio	Project No:	176248	Sample Matrix:	Soil
		Batch No:	04G4163		

#	Client Sample No	Lab Sample ID	S1 % #	TOT OUT
1	04G4163-MB-01	04G4163-MB-01	94	0
2	04G4163-LCS-01	04G4163-LCS-01	82	0
3	04G4163-LSD-01	04G4163-LSD-01	87	0
4	BB3EX153[0.5]	04-5566-1	80	0
5				
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19				
20				
21				
22				
23				
24				
25				

	QC Control Limit
S1 = 2,4-DICHLOROPHENYLACETIC ACID	65-135

Column to be used to flag recovery values:

* – Values outside of contract required QC Limits D – Surrogate diluted out I – Matrix Interference

FORM-3D

Applied P & CH Laboratories

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	45566
Project ID:	Presidio	Project No:	176248	Sample Matrix:	Soil
		Batch No:	04G4163		
LCS Filename:	4163G.L01	Date Analyzed:	120904	Time Analyzed:	04:14
LCSD Filename:	4163G.J01	Date Analyzed:	120904	Time Analyzed:	04:55

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
2,4-D	mg/kg	0.050	0	0.0417	83	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0	0.0457	91	65-135
2,4,5-T	mg/kg	0.050	0	0.0350	70	65-135
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
2,4-D	mg/kg	0.050	0.0486	97	16	35	65-135
2,4,5-TP (SILVEX)	mg/kg	0.050	0.0473	95	4	35	65-135
2,4,5-T	mg/kg	0.050	0.0370	74	6	35	65-135
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

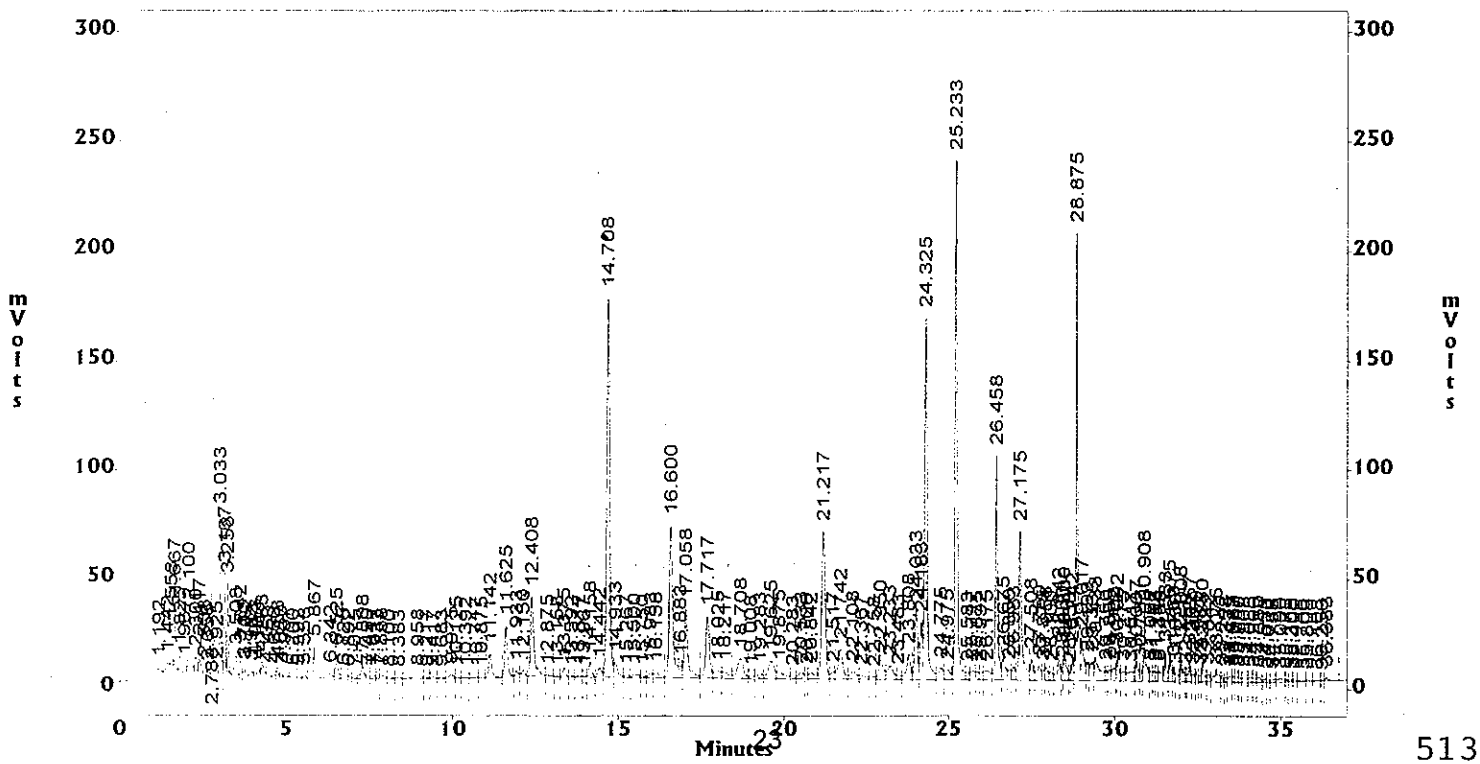
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.l01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcs f=0.2
Acquired : Dec 09, 2004 04:14:28
Printed : Dec 10, 2004 11:27:51
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	41283	16345	0.101430	108.26
56	2	3,5-Di-Cl-Bz acid	11.63	132148	23372	0.136961	256.65
57	3	4-Nitrophenol	11.93	10123	2035	0.099783	26.99
75	4	DCAA(Surr)	16.60	514965	69881	0.083432	1641.82
77	5	Dicamba	17.06	255038	31429	0.361668	187.57
81	6	MCPP(ppm)	18.71	121385	9102	1.228394	55.57
84	7	MCPA(PPm)	19.63	101133	8105	1.598133	28.40
92	8	Dichloroprop	21.74	141733	13678	0.106317	354.61
96	9	2,4-D (m)	22.95	86679	8450	0.110653	208.37
102	10	DBOB (IS)	24.33	939858	165501	1.000000	250.00
105	11	Pentachlorphenol	25.23	1124162	237148	1.476711	202.49
111	12	Silvex (m)	26.46	476103	102785	0.554810	228.26
112	13	Chloramben	26.67	76132	10543	0.461232	43.91
115	14	2,4,5-T (m)	27.17	392235	68119	0.596850	174.81
121	15	Dinoseb	28.34	74620	14714	0.378307	52.47
123	16	2,4-DB	28.50	80630	14898	0.053067	404.15
--	17	Bentazon	28.82	0	0	0.000000	0.00
130	18	Picloram	29.43	115817	10967	0.733773	41.98
133	19	DCPA	29.99	41581	6114	0.869976	12.71
145	20	Acifluorfen	31.67	58063	18688	0.609087	25.36

c:\data\2004\0412\8151t\04g4163\4163g.l01 -- Channel A

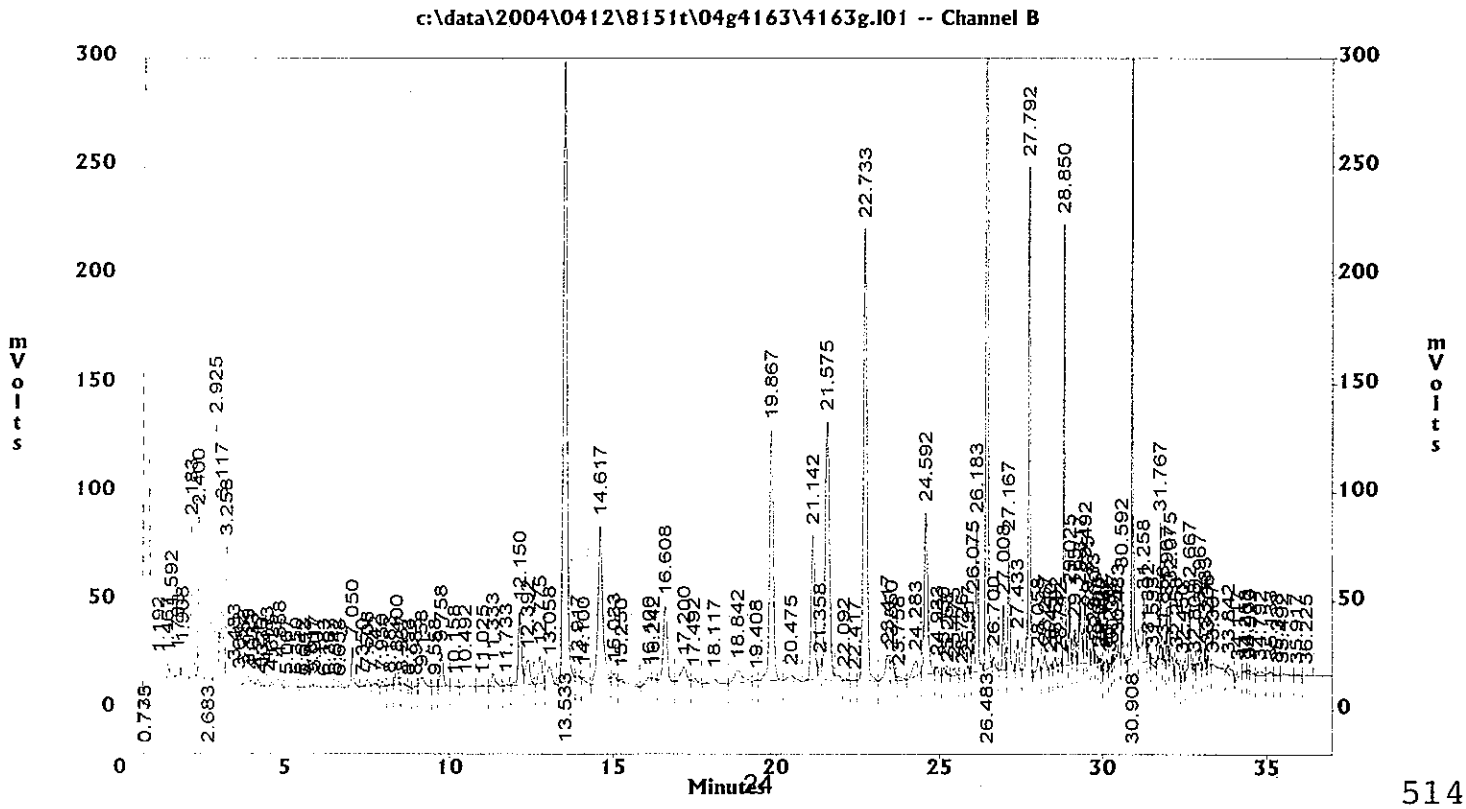


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.l01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcs f=0.2
Acquired : Dec 09, 2004 04:14:28
Printed : Dec 10, 2004 11:27:52
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	86657	26000	0.126755	108.67
52	2	3,5-Di-Cl-Bz acid	12.15	238390	33867	0.154483	245.28
63	3	4-Nitrophenol	16.24	6823	1450	0.093535	11.59
70	4	DCAA (surr)	19.87	917003	115574	0.088093	1654.58
72	5	Dicamba	21.14	503633	66929	0.371609	215.42
73	6	MCPP (ppm)	21.36	50797	7538	0.511087	17.15
77	7	DBOB (IS)	22.73	1572831	208135	1.000000	250.00
78	8	MCPA (ppm)	23.42	110223	12059	0.839008	31.05
82	9	Dichloroprop	24.59	545086	74560	0.113524	763.20
89	10	2,4-D (m)	26.08	137333	32675	0.094967	229.86
91	11	Pentachlorphenol	26.48	2022936	488885	1.572894	204.43
96	12	Silvex (m)	27.79	933968	234119	0.632949	234.54
102	13	2,4,5-T (m)	28.85	626768	202956	0.557553	178.68
103	14	Dinoseb	29.02	96227	32139	0.471303	32.45
105	15	Chloramben	29.32	149103	31527	0.478771	49.50
106	16	2,4-DB	29.49	125875	37511	0.067091	298.22
116	17	Bentazon	30.59	92575	37283	0.071389	206.12
--	18	DCPA	30.67	0	0	0.000000	0.00
118	19	Picloram	31.26	182065	28684	0.849758	34.06
124	20	Acifluorfen	32.08	77950	32382	0.656098	18.88



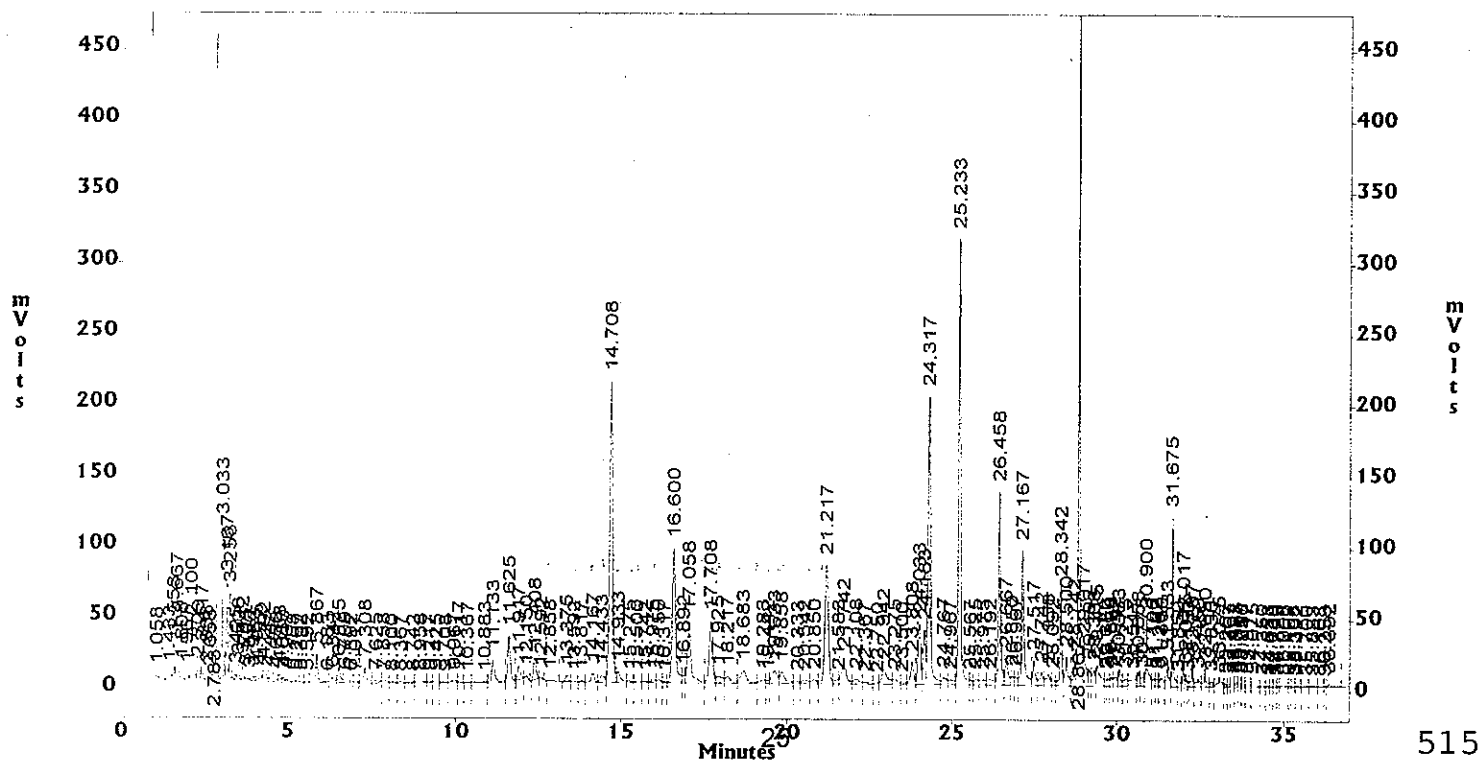
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.j01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcsd f=0.2
Acquired : Dec 09, 2004 04:55:12
Printed : Dec 10, 2004 11:35:04
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	54663	21912	0.101430	116.39
56	2	3,5-Di-Cl-Bz acid	11.63	176277	31690	0.136961	277.97
57	3	4-Nitrophenol	11.92	57564	9676	0.099783	124.59
75	4	DCAA(Surr)	16.60	674035	94022	0.083432	1744.81
77	5	Dicamba	17.06	332584	42884	0.361668	198.60
81	6	MCPP(ppm)	18.68	123736	9134	1.228394	40.77
84	7	MCPA(PPm)	19.63	100177	9037	1.598133	14.36
91	8	Dichloroprop	21.74	166871	17754	0.106317	338.98
95	9	2,4-D (m)	22.94	124600	10854	0.110653	243.19
101	10	DBOB (IS)	24.32	1157562	202567	1.000000	250.00
104	11	Pentachlorphenol	25.23	1467030	313838	1.476711	214.56
109	12	Silvex (m)	26.46	607296	136024	0.554810	236.40
110	13	Chloramben	26.67	124704	19416	0.461232	58.39
113	14	2,4,5-T (m)	27.17	511308	94472	0.596850	185.02
118	15	Dinoseb	28.34	244715	69349	0.378307	139.70
119	16	2,4-DB	28.50	121509	20040	0.053067	494.51
121	17	Bentazon	28.87	1576848	471753	0.101517	4328.79
125	18	Picloram	29.42	126692	14937	0.733773	37.29
129	19	DCPA	29.94	48036	6492	0.869976	11.92
141	20	Acifluorfen	31.67	259892	118965	0.609087	92.15

c:\data\2004\0412\8151t\04g4163\4163g.j01 -- Channel A

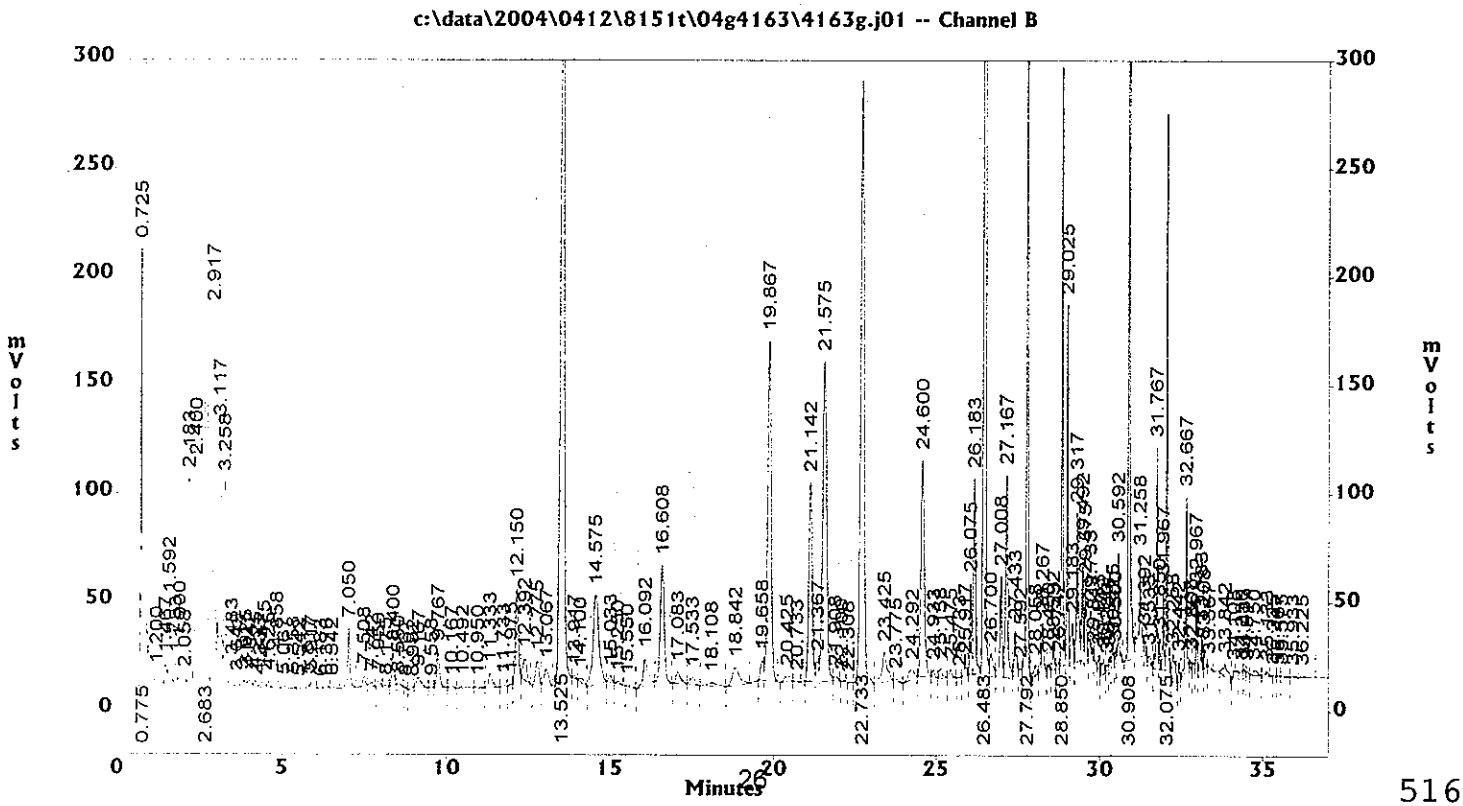


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.j01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : lcsd f=0.2
Acquired : Dec 09, 2004 04:55:12
Printed : Dec 10, 2004 11:35:05
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	112438	33664	0.126755	108.05
51	2	3,5-Di-Cl-Bz acid	12.15	253635	42198	0.154483	199.99
62	3	4-Nitrophenol	16.09	124282	12627	0.093535	161.85
69	4	DCAA (surr)	19.87	1192223	156476	0.088093	1648.54
72	5	Dicamba	21.14	688907	91726	0.371609	225.82
73	6	MCPP (ppm)	21.37	60992	9344	0.511087	14.91
78	7	DBOB (IS)	22.73	2052375	277930	1.000000	250.00
79	8	MCPA (ppm)	23.42	153310	13755	0.839008	34.26
82	9	Dichloroprop	24.60	719409	100099	0.113524	771.92
88	10	2,4-D (m)	26.08	174181	42100	0.094967	223.42
90	11	Pentachlorphenol	26.48	2661863	632936	1.572894	206.14
96	12	Silvex (m)	27.79	1206120	310221	0.632949	232.12
102	13	2,4,5-T (m)	28.85	846571	276031	0.557553	184.95
103	14	Dinoseb	29.02	453018	165653	0.471303	117.08
105	15	Chloramben	29.32	259348	68622	0.478771	65.98
106	16	2,4-DB	29.49	146319	49137	0.067091	265.65
116	17	Bentazon	30.59	119244	48570	0.071389	203.46
--	18	DCPA	30.67	0	0	0.000000	0.00
118	19	Picloram	31.26	230812	46455	0.849758	33.09
124	20	Acifluorfen	32.08	476811	256716	0.656098	88.52



FORM-4B

Applied P & CH Laboratories

Method Blank Summary for Method 8151A

Client Name:	Curtis & Tompkins	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	45566
Project ID:	Presidio	Project No:	176248	Analysis Date:	12/09/04
		Sample Matrix:	Soil	Analysis Time:	03:33
Sample ID:	**04G4163-MB-01**	Batch No:	04G4163	Instrument ID:	GC: T
Lab Sample ID:	04G4163-MB-01	Data File Name:	4163G.K01	GC Column:	DB-608
				Column ID:	0.32 mm

This Method Blank applies to the following samples and QC samples:

#	Client Sample No	Lab Sample ID	Sample Type	Data Filename	Analysis Date	Analysis Time
1	04G4163-LCS-01	04G4163-LCS-01	Lab Control Spike	4163G.L01	12/09/04	04:14
2	04G4163-LSD-01	04G4163-LSD-01	Lab Control Spike Duplicate	4163G.J01	12/09/04	04:55
3	BB3EX153[0.5]	04-5566-1	Field Sample	5566.001	12/09/04	06:16
4						
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6						
7						
8						
9						
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25						

Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:30
Channel : A
Peak : 1 Dalapon

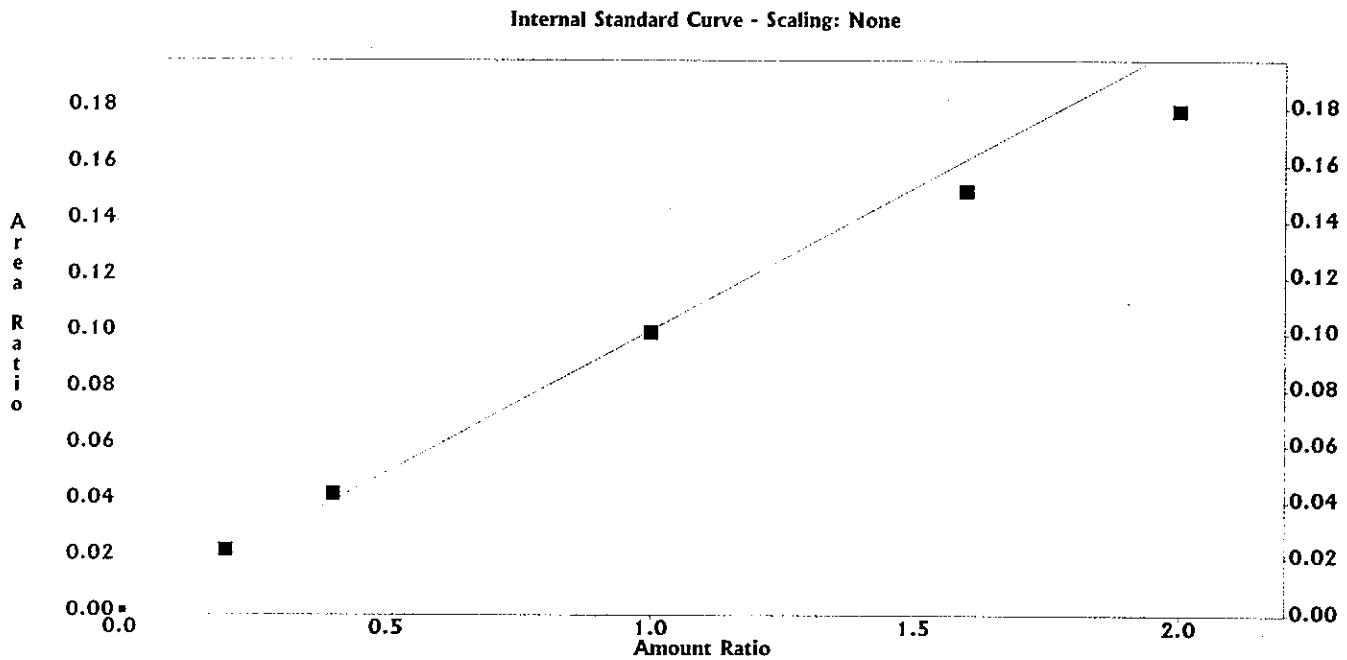
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0230	0.2	0.1149	0.0230							0
2	0.0431	0.4	0.1077	0.0431							0
3	0.1005	1	0.1005	0.1005							0
4	0.1509	1.6	0.09432	0.1509							0
5	0.1795	2	0.08977	0.1795							0

Calib Flag: Replace

Average RF: 0.10143
RF StdDev: 0.0100812
RF %RSD: 9.939

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.10143



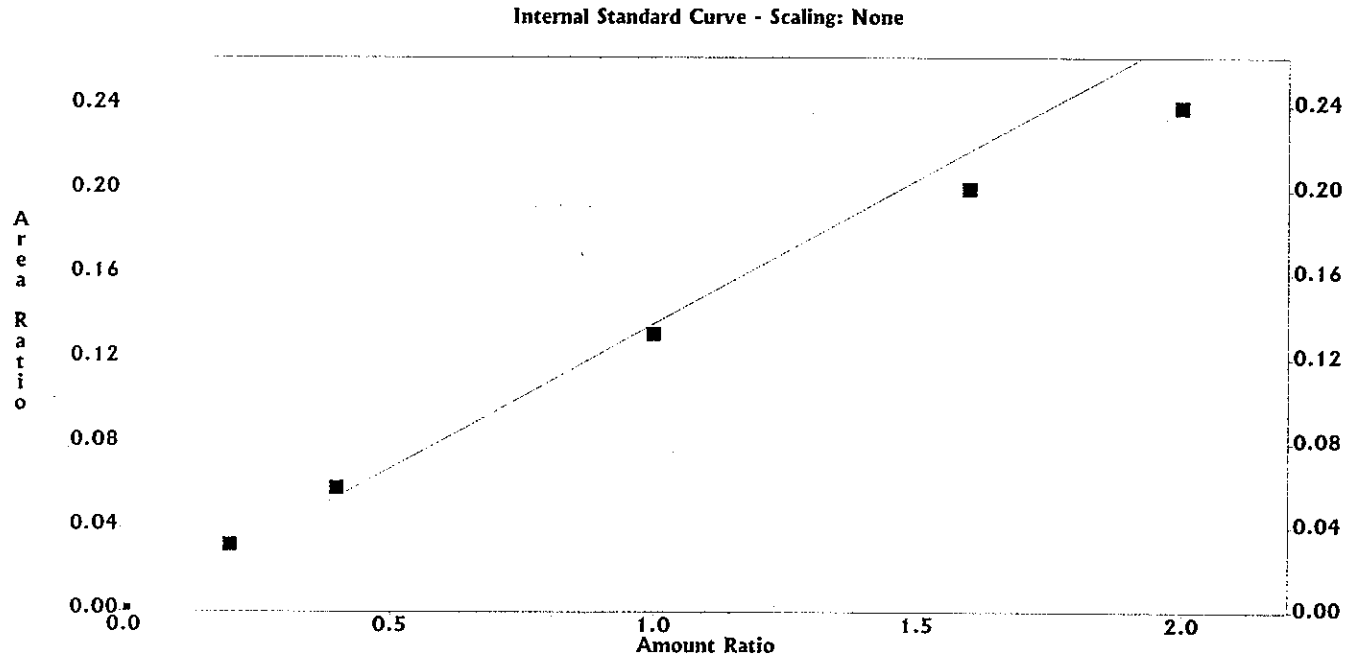
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:31
Channel : A
Peak : 2 3,5-Di-Cl-Bz acid

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0319	0.2	0.1597	0.0319							0
2	0.0591	0.4	0.1477	0.0591							0
3	0.1321	1	0.1321	0.1321							0
4	0.2009	1.6	0.1255	0.2009							0
5	0.2395	2	0.1198	0.2395							0

Calib Flag: Replace

Average RF: 0.136961
RF StdDev: 0.016454
RF %RSD: 12.014

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.136961



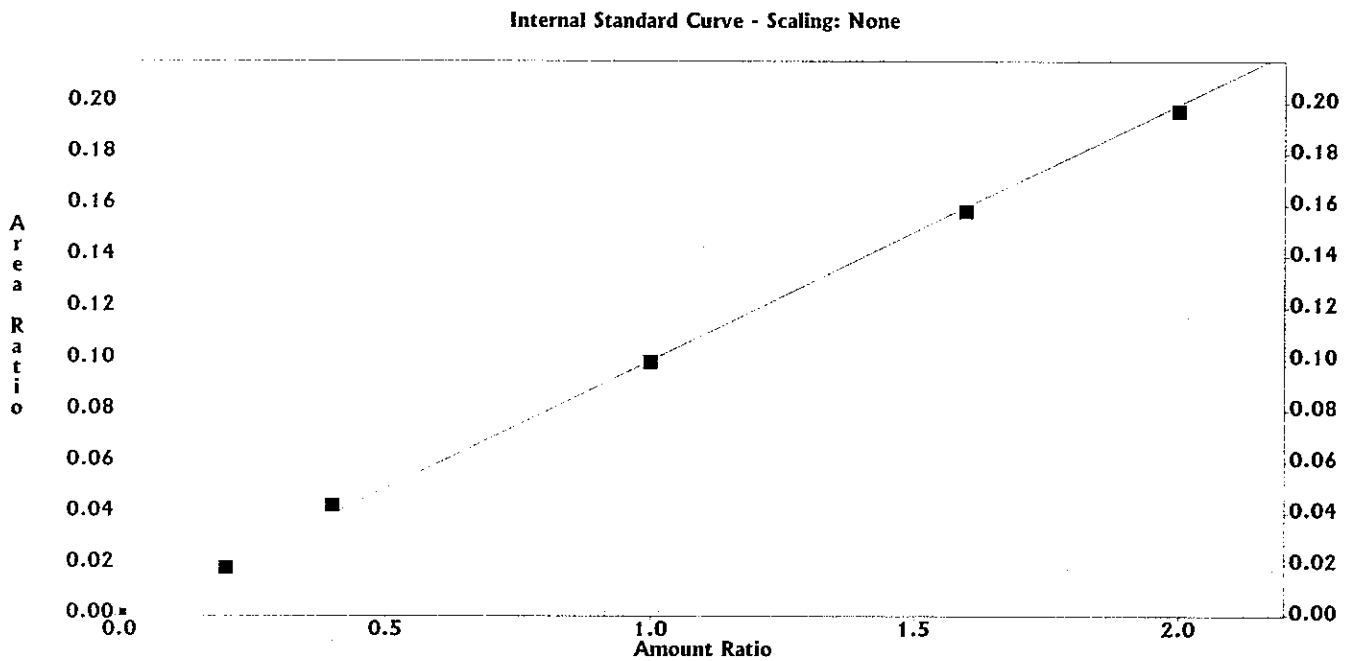
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:31
Channel : A
Peak : 3 4-Nitrophenol

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0189	0.2	0.09464	0.0189							0
2	0.0432	0.4	0.108	0.0432							0
3	0.0992	1	0.09919	0.0992							0
4	0.1578	1.6	0.0986	0.1578							0
5	0.1969	2	0.09846	0.1969							0

Calib Flag: Replace

Average RF: 0.0997833
RF StdDev: 0.00494462
RF %RSD: 4.955

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0997833



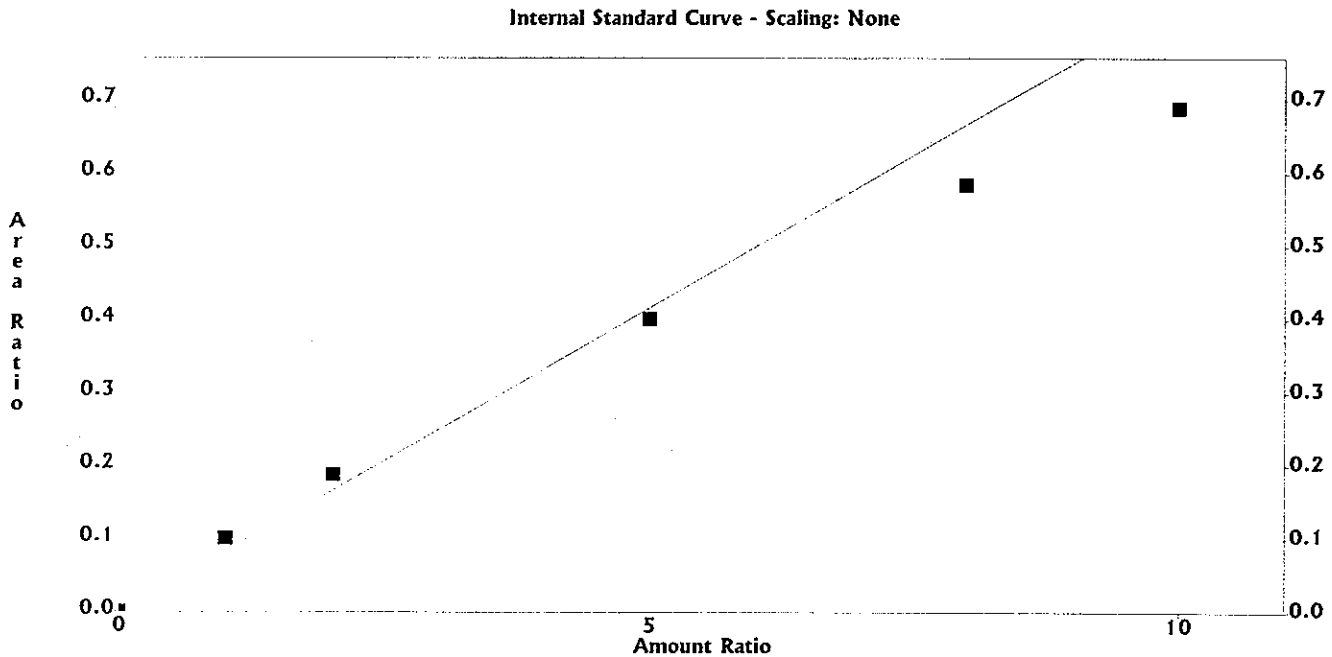
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:32
Channel : A
Peak : 4 DCAA(Surr)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1007	1	0.1007	0.1007							0
2	0.1883	2	0.09415	0.1883							0
3	0.4012	5	0.08025	0.4012							0
4	0.5846	8	0.07308	0.5846							0
5	0.6897	10	0.06897	0.6897							0

Calib Flag: Replace

Average RF: 0.0834315
RF StdDev: 0.0136018
RF %RSD: 16.303

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0834315



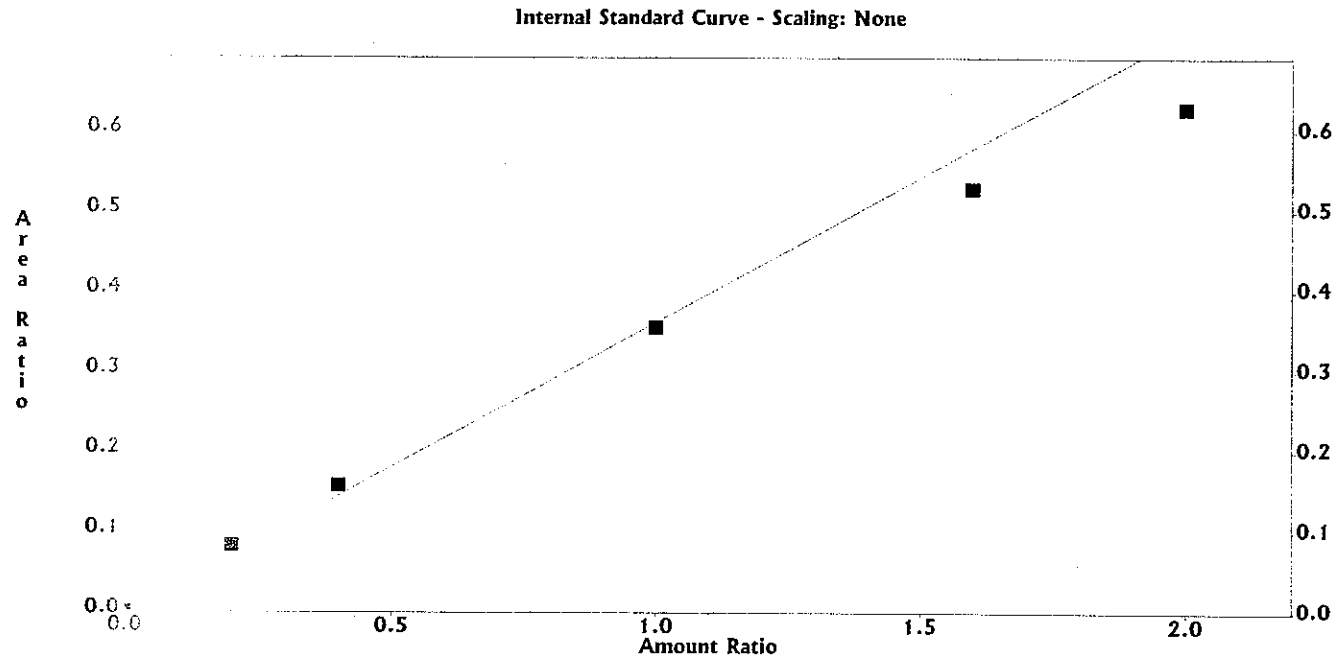
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:32
Channel : A
Peak : 5 Dicamba

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	[illegible]	0.2	0.4139	0.0828							0
2	0.1578	0.4	0.3944	0.1578							0
3	[illegible]	1	0.3552	0.3552							0
4	0.5284	1.6	0.3303	0.5284							0
5	[illegible]	2	0.3145	0.6291							0

Calib Flag: Replicate

Average RF: [illegible]
RF StdDev: [illegible]
RF %RSD: [illegible]

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.361668



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:33
Channel : A
Peak : 6 MCPP(ppm)

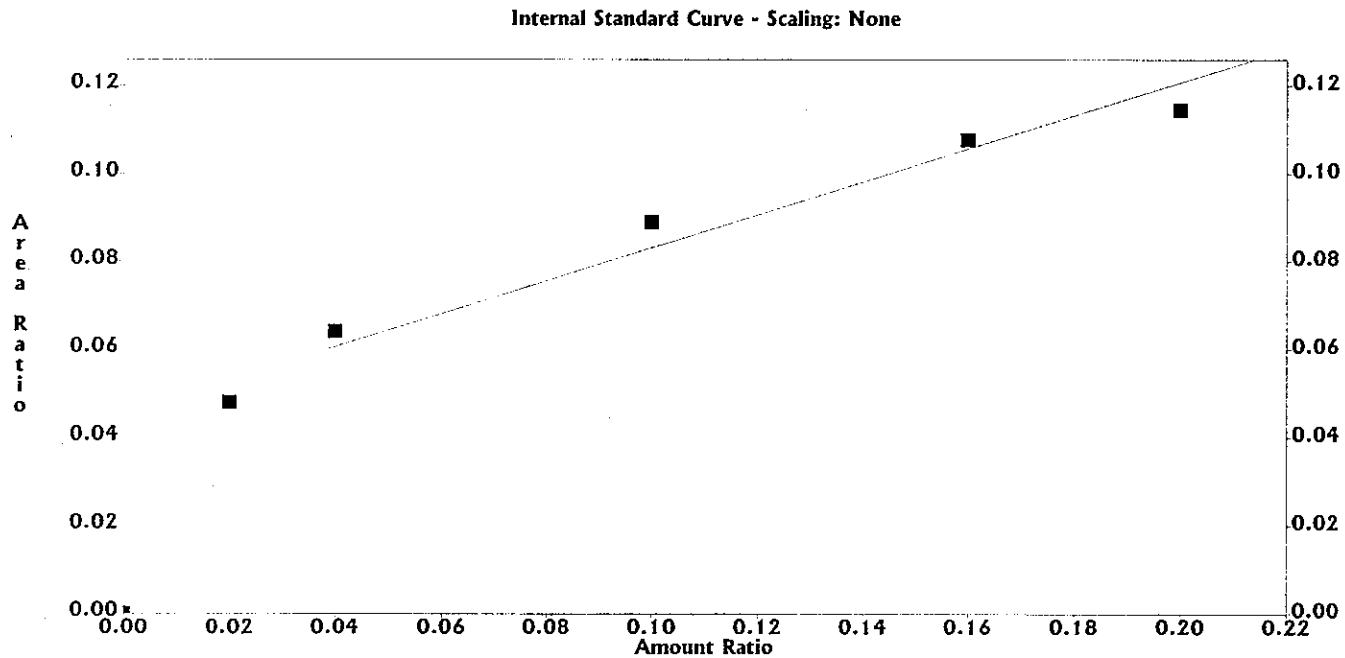
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0480	0.02	2.40	0.0480							0
2	0.0641	0.04	1.60	0.0641							0
3	0.0890	0.1	0.8902	0.0890							0
4	0.1077	0.16	0.6733	0.1077							0
5	0.1146	0.2	0.5728	0.1146							0

Calib Flag: Replace

Average RF: 1.22839
RF StdDev: 0.76983
RF %RSD: 62.670

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.66109 x Area - 0.12139
R^2 = 0.96546



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:33
Channel : A
Peak : 7 MCPA(PPm)

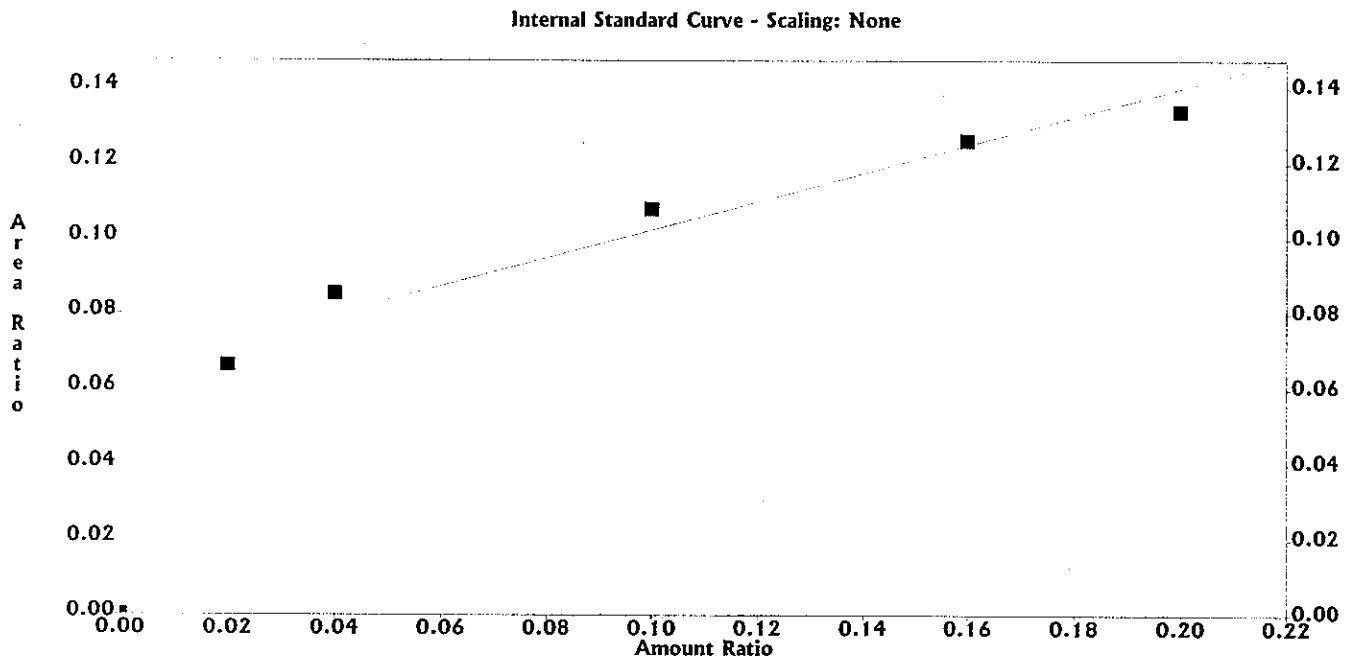
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0663	0.02	3.31	0.0663							0
2	0.0855	0.04	2.14	0.0855							0
3	0.1081	0.1	1.08	0.1081							0
4	0.1262	0.16	0.7888	0.1262							0
5	0.1340	0.2	0.6699	0.1340							0

Calib Flag: Replace

Average RF: 1.59813
RF StdDev: 1.12018
RF %RSD: 70.093

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.66484 x Area - 0.173163
R^2 = 0.958387



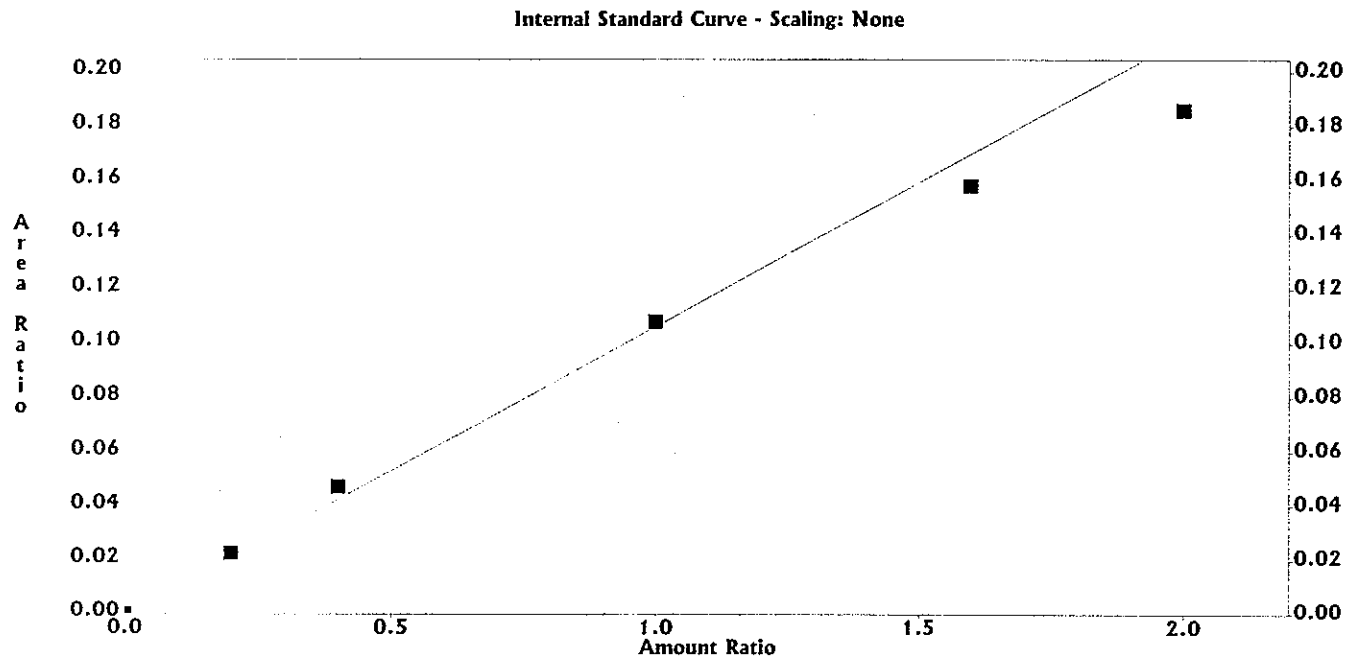
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:34
Channel : A
Peak : 8 Dichloroprop

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0226	0.2	0.1132	0.0226							0
2	0.0473	0.4	0.1181	0.0473							0
3	0.1082	1	0.1082	0.1082							0
4	0.1583	1.6	0.09895	0.1583							0
5	0.1862	2	0.09311	0.1862							0

Calib Flag: Replace

Average RF: 0.106317
RF StdDev: 0.0102393
RF %RSD: 9.631

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.106317



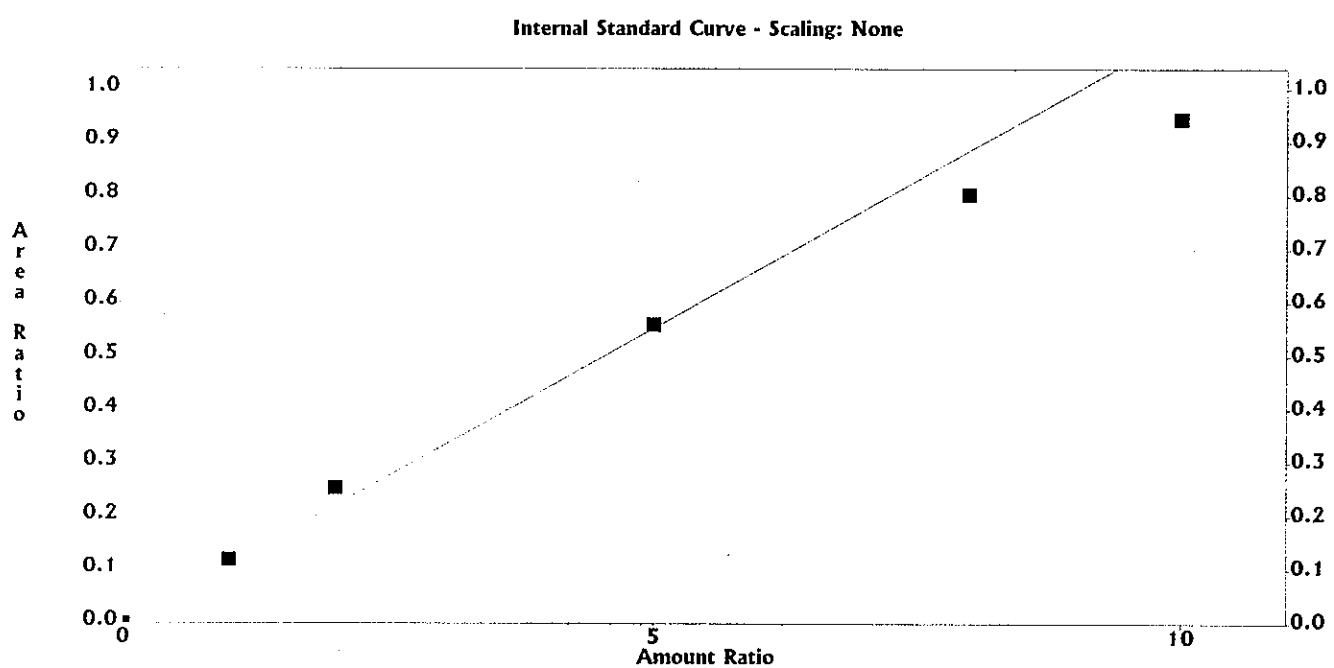
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:34
Channel : A
Peak : 9 2,4-D (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1195	1	0.1195	0.1195							0
2	0.2539	2	0.127	0.2539							0
3	0.5596	5	0.1119	0.5596							0
4	0.8030	8	0.1004	0.8030							0
5	0.9450	10	0.0945	0.9450							0

Calib Flag: Replace

Average RF: 0.110653
RF StdDev: 0.0133476
RF %RSD: 12.063

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.110653



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:34
Channel : A
Peak : 10 DBOB (IS)

* - Replicate Not Used

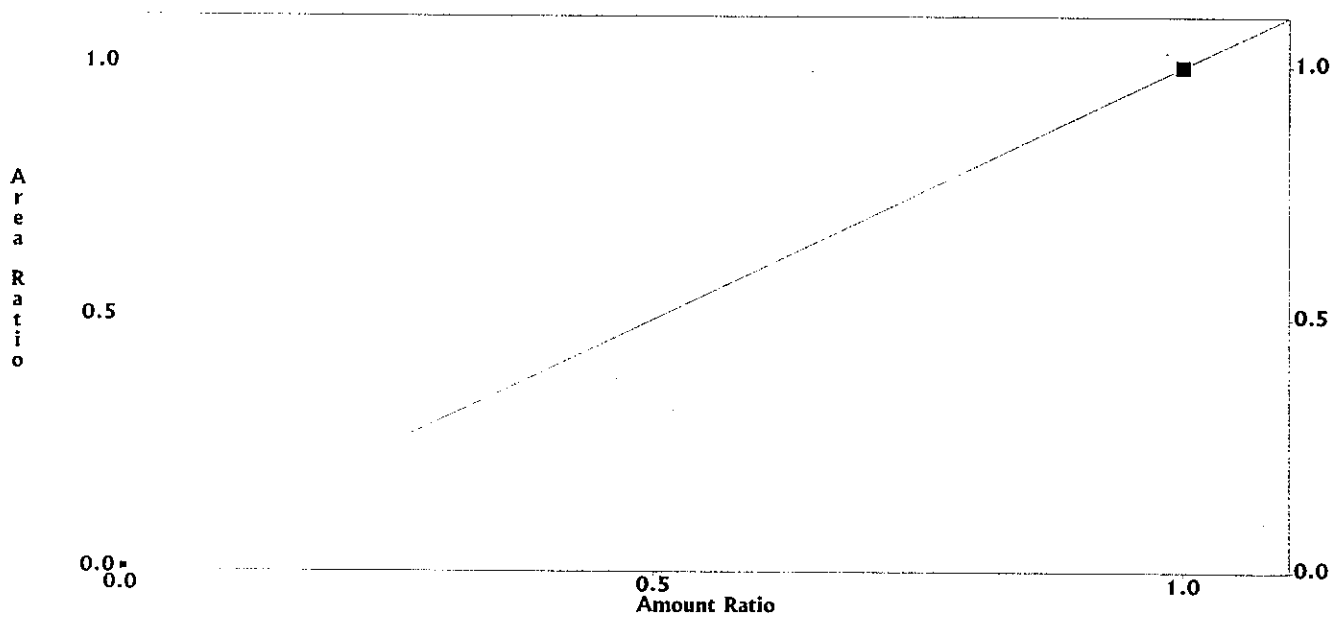
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



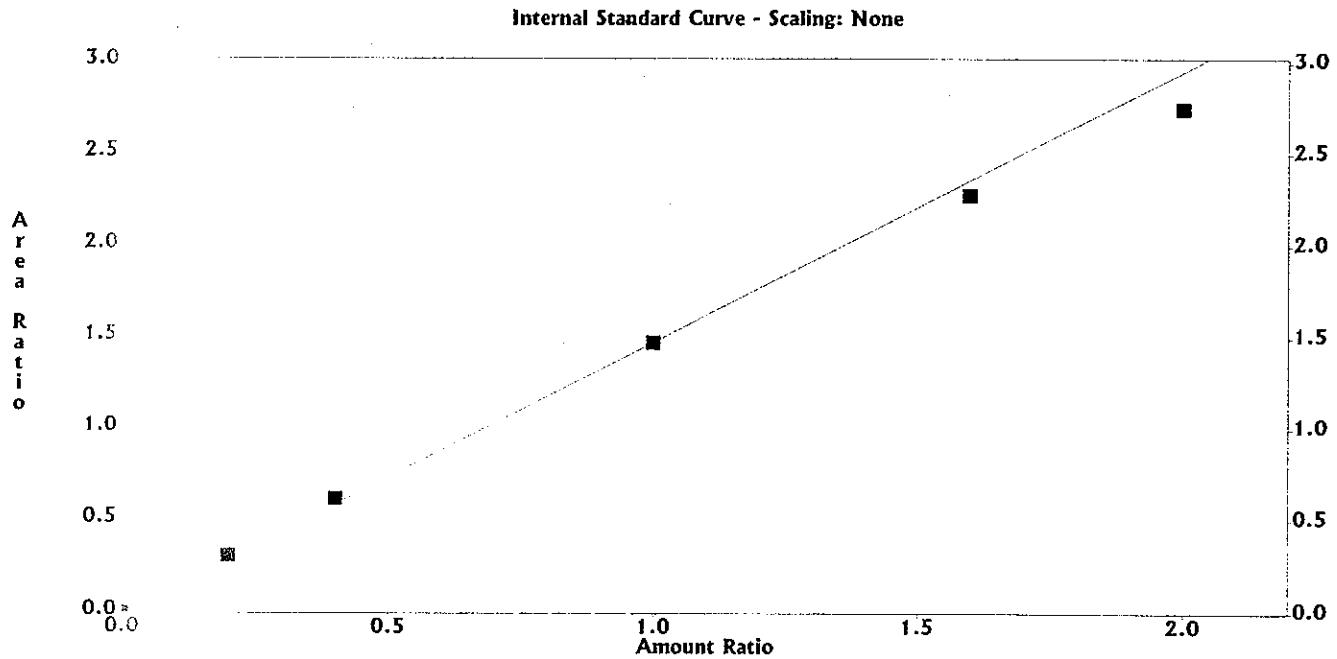
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:35
Channel : A
Peak : 11 Pentachlorphenol

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	[illegible]	[illegible]	1.56	0.3120							0
2	[illegible]	[illegible]	1.55	0.6192							0
3	[illegible]	1	1.48	1.4760							0
4	[illegible]	[illegible]	1.42	2.2798							0
5	[illegible]	2	1.37	2.7497							0

Calib Flag: [illegible]

Average RF: [illegible]
RF StdDev: [illegible]
RF %RSD: [illegible]

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.47671



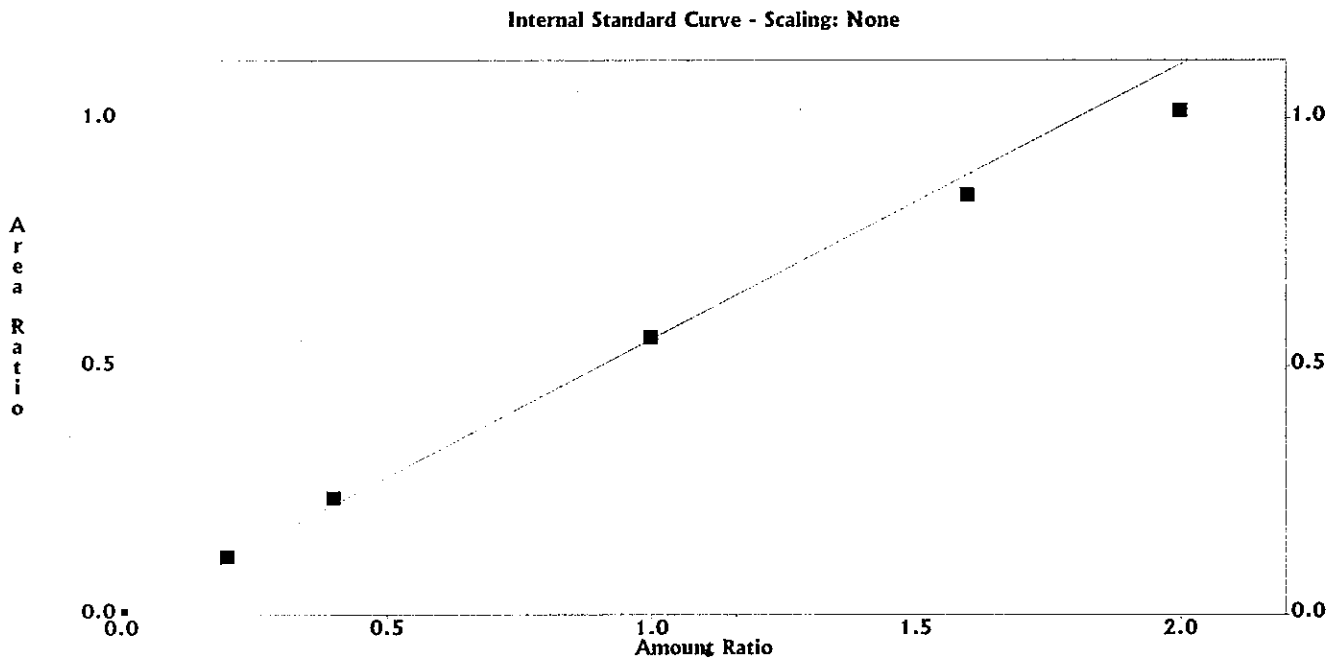
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:35
Channel : A
Peak : 12 Silvex (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1178	0.2	0.5891	0.1178							0
2	0.2354	0.4	0.5884	0.2354							0
3	0.5590	1	0.559	0.5590							0
4	0.8468	1.6	0.5293	0.8468							0
5	1.0165	2	0.5083	1.0165							0

Calib Flag: Replace

Average RF: 0.55481
RF StdDev: 0.0358558
RF %RSD: 6.463

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.55481



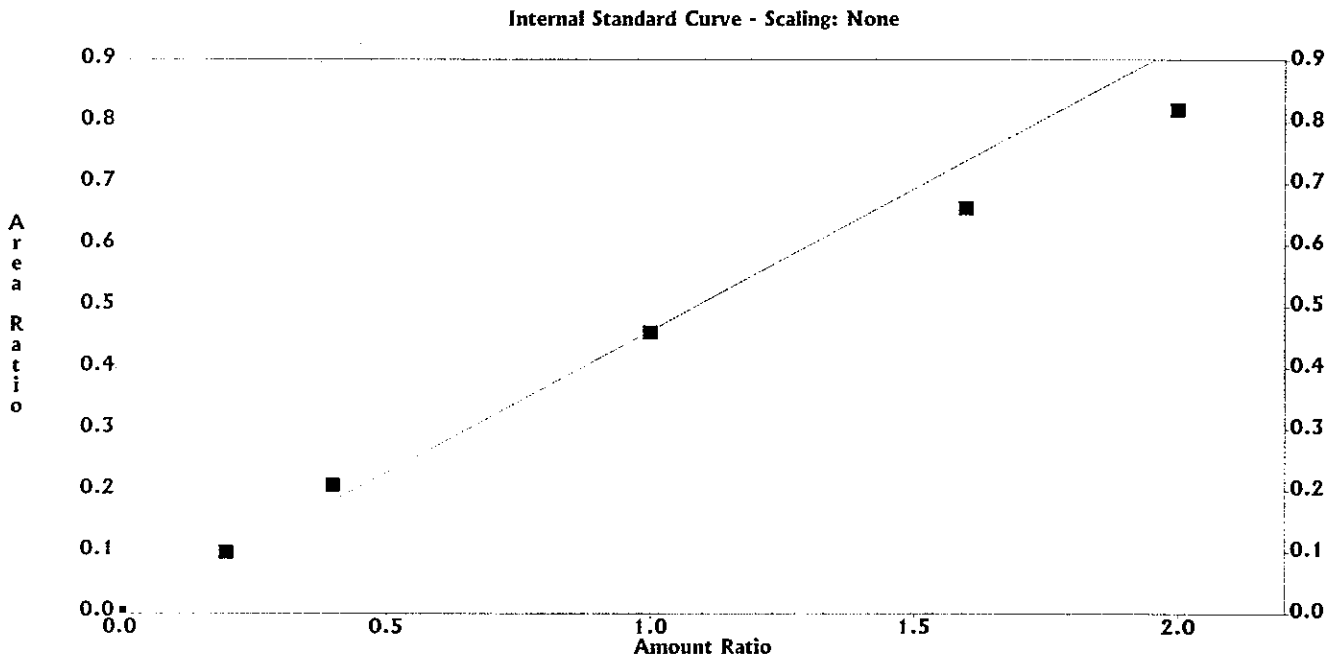
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:36
Channel : A
Peak : 13 Chloramben

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0999	0.2	0.4997	0.0999							0
2	0.2099	0.4	0.5247	0.2099							0
3	0.4584	1	0.4584	0.4584							0
4	0.6608	1.6	0.413	0.6608							0
5	0.8206	2	0.4103	0.8206							0

Calib Flag: Replace

Average RF: 0.461232
RF StdDev: 0.0510831
RF %RSD: 11.075

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.461232



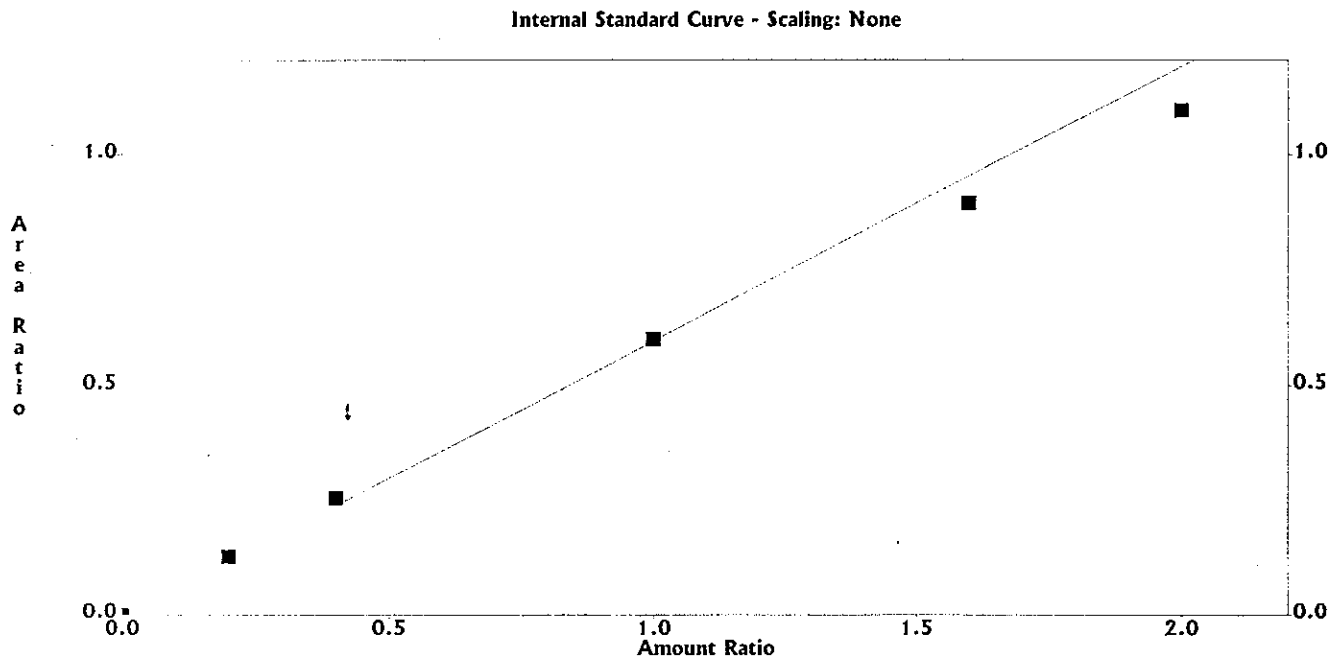
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:36
Channel : A
Peak : 14 2,4,5-T (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1276	0.2	0.6378	0.1276							0
2	0.2548	0.4	0.6371	0.2548							0
3	0.6013	1	0.6013	0.6013							0
4	0.8949	1.6	0.5593	0.8949							0
5	1.0976	2	0.5488	1.0976							0

Calib Flag: Replace

Average RF: 0.59685
RF StdDev: 0.0419355
RF %RSD: 7.026

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.59685



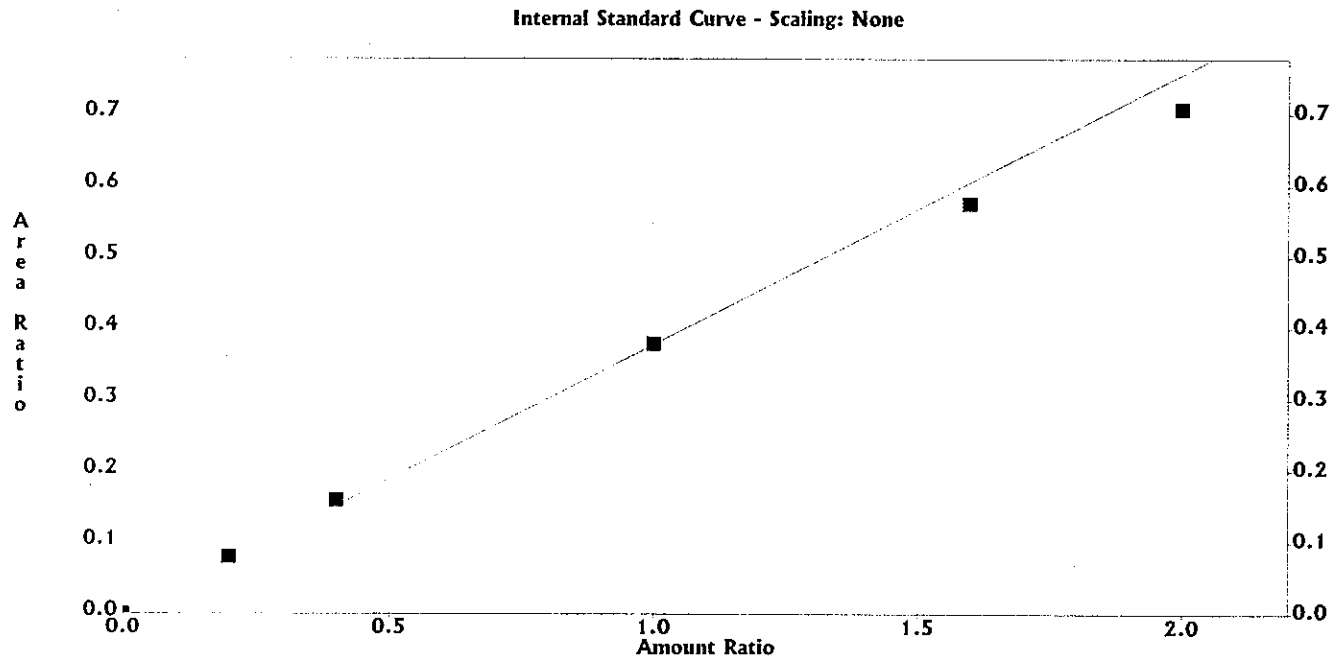
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:37
Channel : A
Peak : 15 Dinoseb

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0799	0.2	0.3996	0.0799							0
2	0.1596	0.4	0.3989	0.1596							0
3	0.3794	1	0.3794	0.3794							0
4	0.5756	1.6	0.3598	0.5756							0
5	0.7078	2	0.3539	0.7078							0

Calib Flag: Replace

Average RF: 0.378307
RF StdDev: 0.021309
RF %RSD: 5.633

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.378307



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:17:37
Channel : A
Peak : 16 2,4-DB

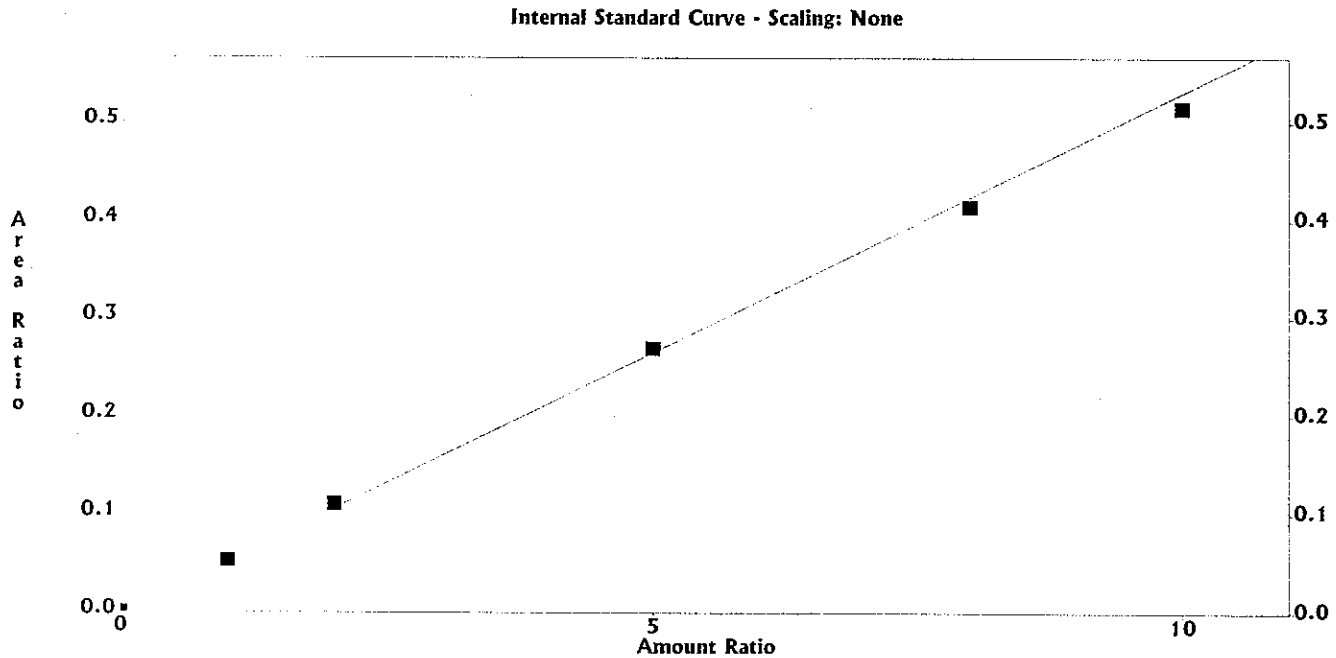
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0528	1	0.05281	0.0528							0
2	0.1105	2	0.05525	0.1105							0
3	0.2697	5	0.05394	0.2697							0
4	0.4146	8	0.05182	0.4146							0
5	0.5152	10	0.05152	0.5152							0

Calib Flag: Replace

Average RF: 0.0530675
RF StdDev: 0.00154441
RF %RSD: 2.910

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0530675



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:37
Channel : A
Peak : 17 Bentazon

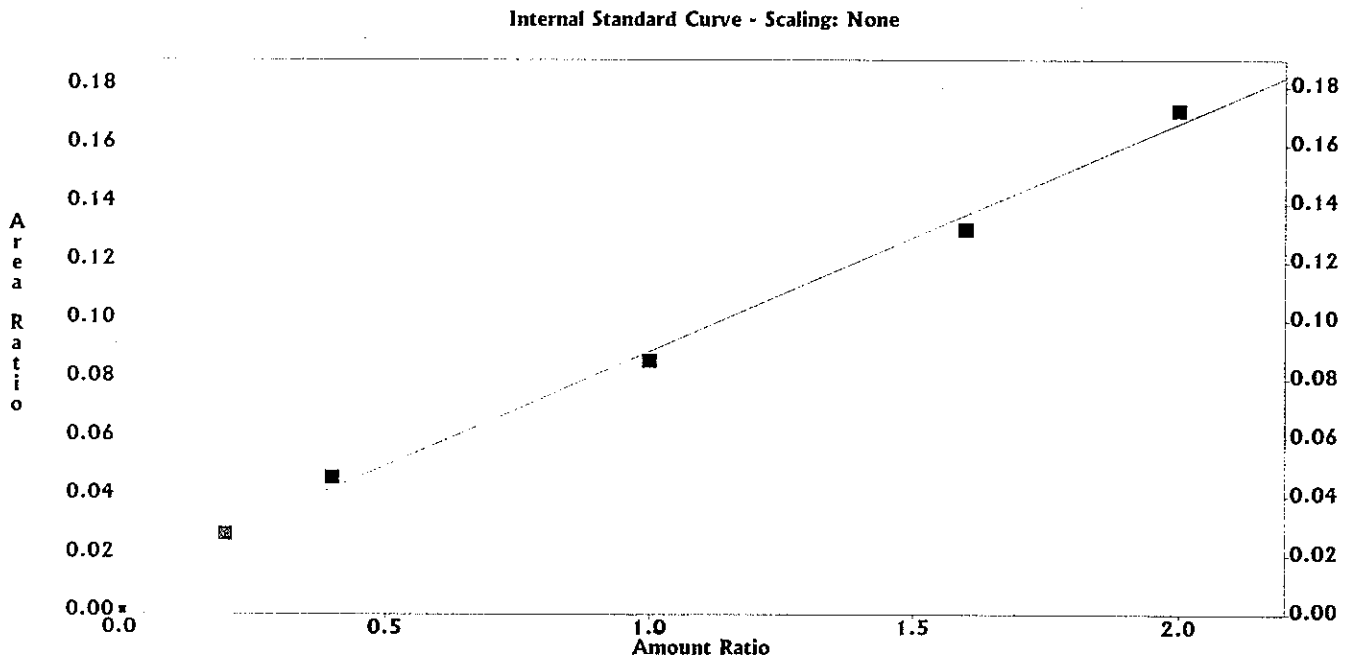
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0273	0.2	0.1365	0.0273							0
2	0.0466	0.4	0.1165	0.0466							0
3	0.0865	1	0.08655	0.0865							0
4	0.1313	1.6	0.08203	0.1313							0
5	0.1721	2	0.08607	0.1721							0

Calib Flag: Replac-

Average RF: 0.101517
RF StdDev: 0.0239177
RF %RSD: 23.569

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 12.8206 x Area - 0.149279
R^2 = 0.995061



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:38
Channel : A
Peak : 18 Picloram

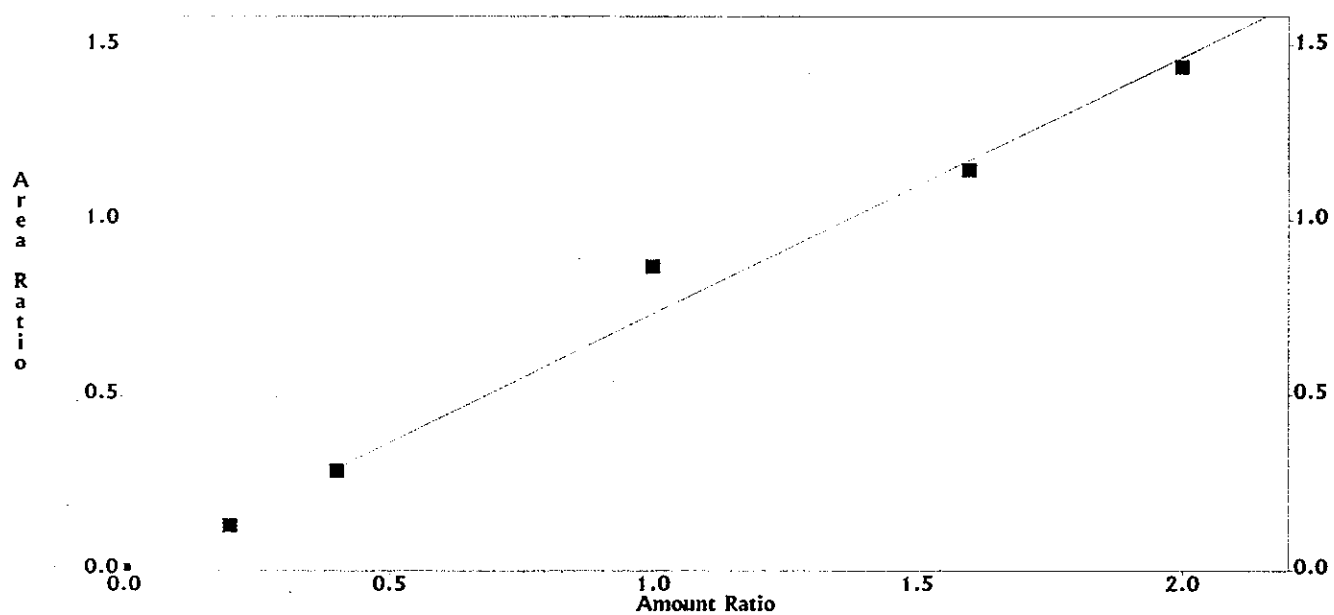
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1296	0.2	0.648	0.1296							0
2	0.2861	0.4	0.7153	0.2861							0
3	0.8685	1	0.8685	0.8685							0
4	1.1466	1.6	0.7166	1.1466							0
5	1.4410	2	0.7205	1.4410							0

Calib Flag: Replace

Average RF: 0.733773
RF StdDev: 0.081107
RF %RSD: 11.053

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.733773

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:38
Channel : A
Peak : 19 DCPA

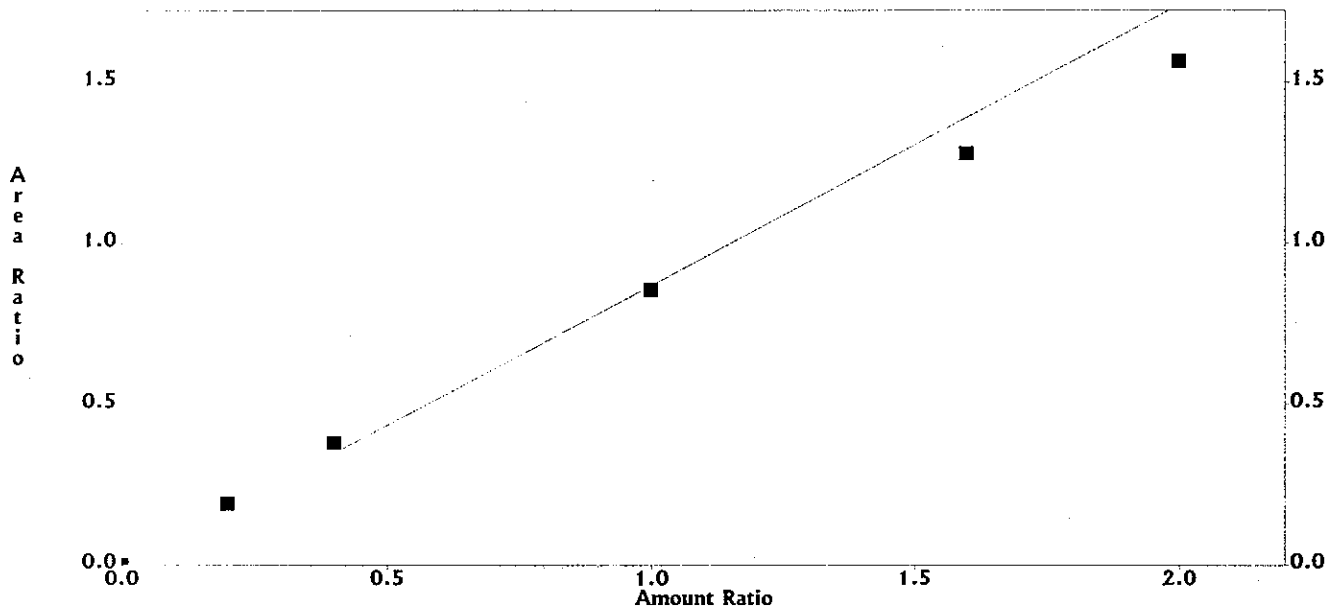
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1918	0.2	0.9589	0.1918							0
2	0.3805	0.4	0.9512	0.3805							0
3	0.8570	1	0.857	0.8570							0
4	1.2794	1.6	0.7996	1.2794							0
5	1.5664	2	0.7832	1.5664							0

Calib Flag: Replace

Average RF: 0.869976
RF StdDev: 0.0824034
RF %RSD: 9.472

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.869976

Internal Standard Curve - Scaling: None



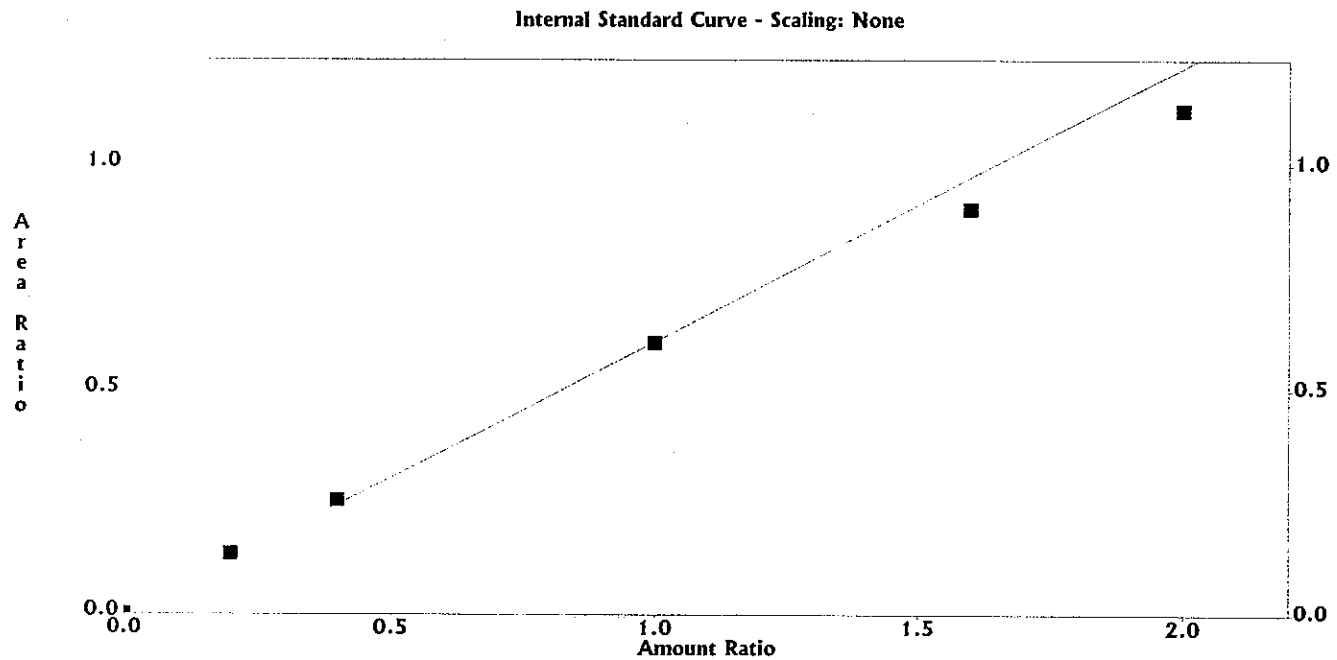
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:17:39
Channel : A
Peak : 20 Acifluorfen

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1353	0.2	0.6765	0.1353							0
2	0.2547	0.4	0.6369	0.2547							0
3	0.6064	1	0.6064	0.6064							0
4	0.9028	1.6	0.5642	0.9028							0
5	1.1228	2	0.5614	1.1228							0

Calib Flag: Replace

Average RF: 0.609087
RF StdDev: 0.0490202
RF %RSD: 8.048

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.609087



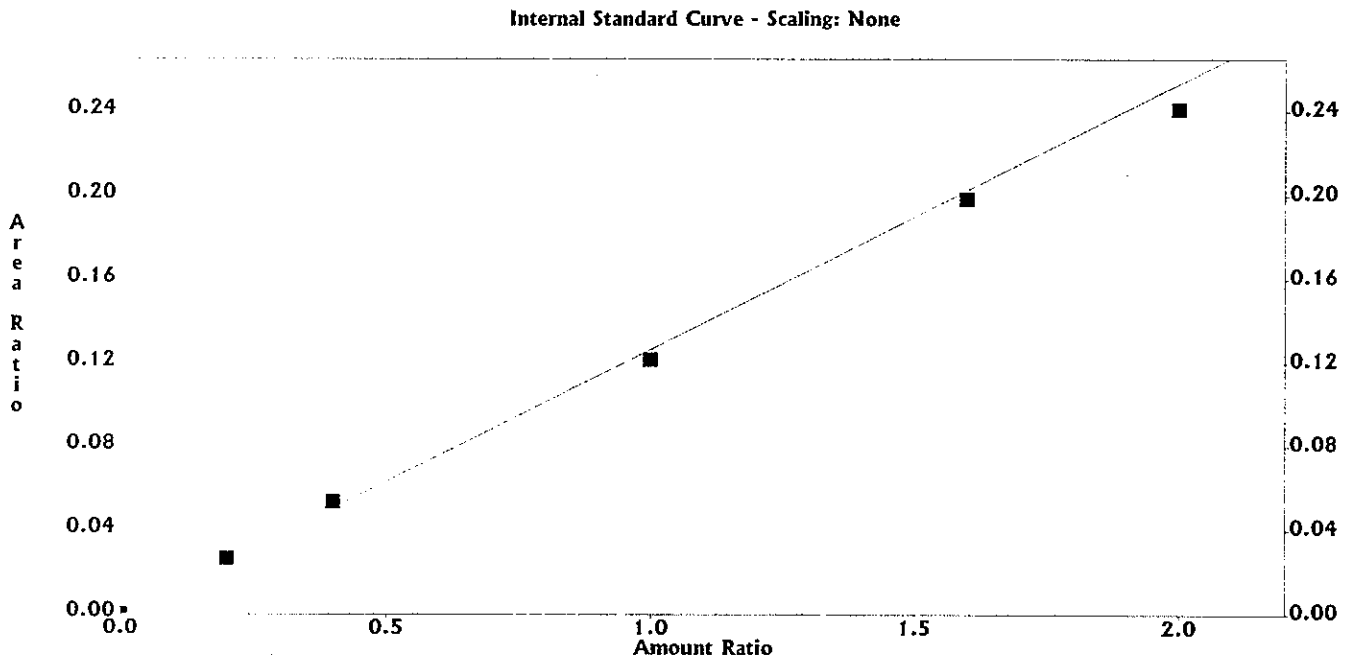
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:06
Channel : B
Peak : 1 Dalapon

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0266	0.2	0.133	0.0266							0
2	0.0537	0.4	0.1341	0.0537							0
3	0.1219	1	0.1219	0.1219							0
4	0.1985	1.6	0.1241	0.1985							0
5	0.2413	2	0.1207	0.2413							0

Calib Flag: Replace

Average RF: 0.126755
RF StdDev: 0.00633203
RF %RSD: 4.995

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.126755



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:07
Channel : B
Peak : 2 3,5-Di-Cl-Bz acid

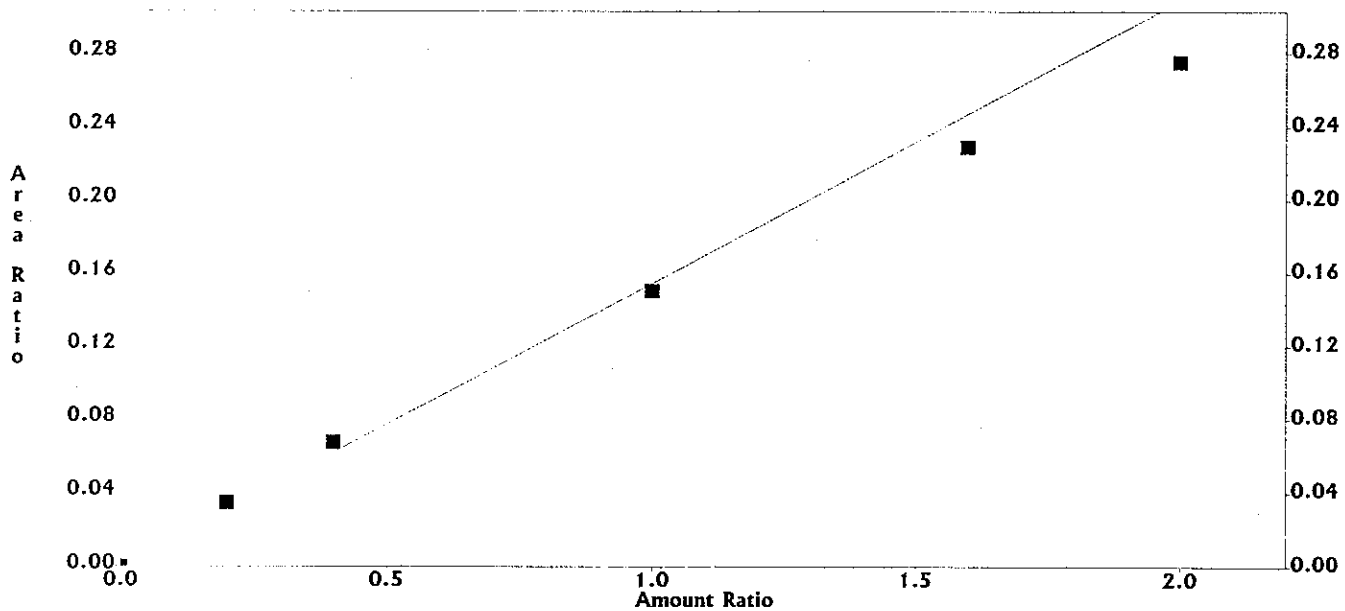
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0346	0.2	0.1729	0.0346							0
2	0.0672	0.4	0.1681	0.0672							0
3	0.1503	1	0.1503	0.1503							0
4	0.2291	1.6	0.1432	0.2291							0
5	0.2756	2	0.1378	0.2756							0

Calib Flag: Replace

Average RF: 0.154483
RF StdDev: 0.0154064
RF %RSD: 9.973

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.154483

Internal Standard Curve - Scaling: None



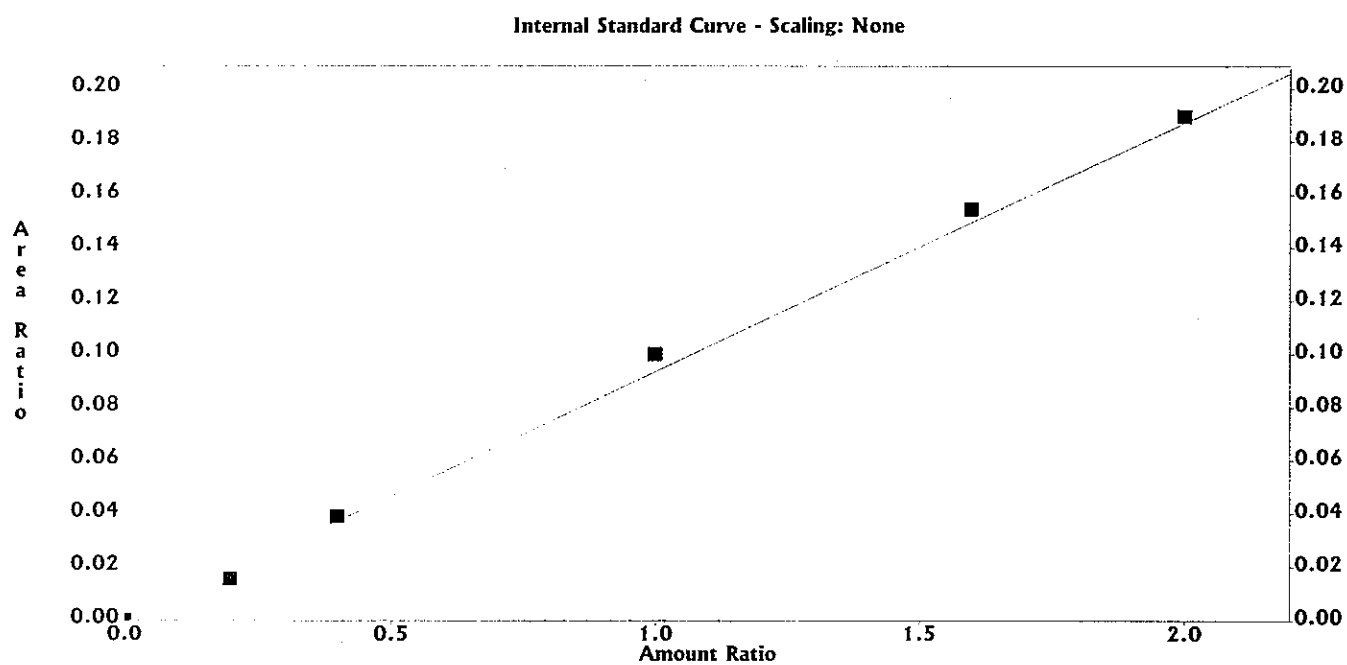
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:07
Channel : B
Peak : 3 4-Nitrophenol

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0157	0.2	0.07825	0.0157							0
2	0.0391	0.4	0.09778	0.0391							0
3	0.1001	1	0.1001	0.1001							0
4	0.1547	1.6	0.09671	0.1547							0
5	0.1897	2	0.09484	0.1897							0

Calib Flag: Replace

Average RF: 0.0935353
RF StdDev: 0.0087578
RF %RSD: 9.37

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0935353



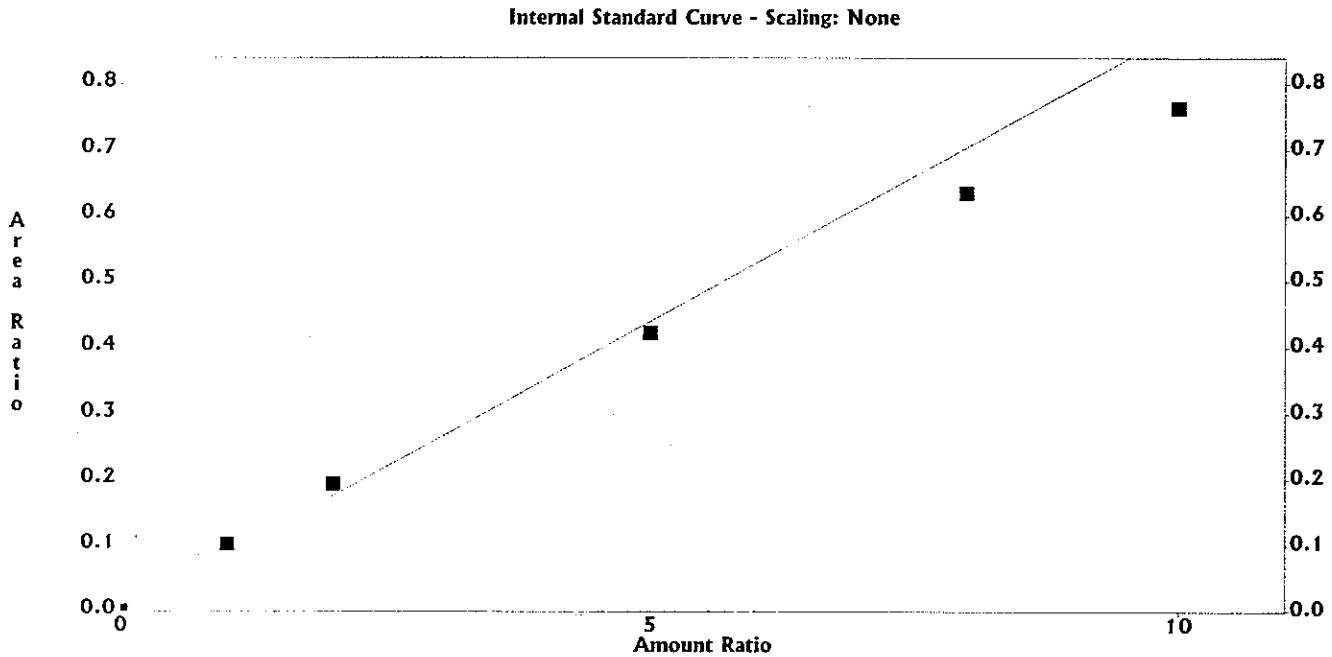
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:08
Channel : B
Peak : 4 DCAA (surr)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1029	1	0.1029	0.1029							0
2	0.1942	2	0.0971	0.1942							0
3	0.4231	5	0.08462	0.4231							0
4	0.6352	8	0.0794	0.6352							0
5	0.7639	10	0.07639	0.7639							0

Calib Flag: Replace

Average RF: 0.0880927
RF StdDev: 0.0114711
RF %RSD: 13.022

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0880927



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:08
Channel : B
Peak : 5 Dicamba

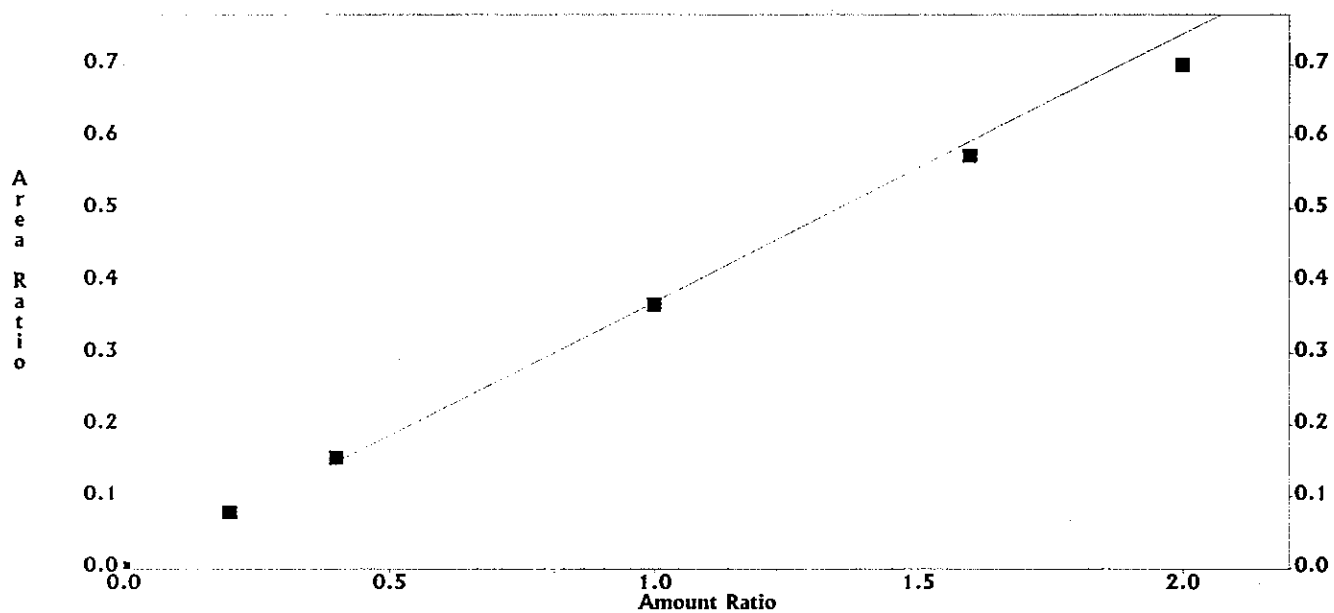
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0786	0.2	0.3931	0.0786							0
2	0.1549	0.4	0.3872	0.1549							0
3	0.3684	1	0.3684	0.3684							0
4	0.5744	1.6	0.359	0.5744							0
5	0.7006	2	0.3503	0.7006							0

Calib Flag: Replace

Average RF: 0.371609
RF StdDev: 0.0182154
RF %RSD: 4.902

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.371609

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:18:09
Channel : B
Peak : 6 MCPP (ppm)

* - Replicate Not Used

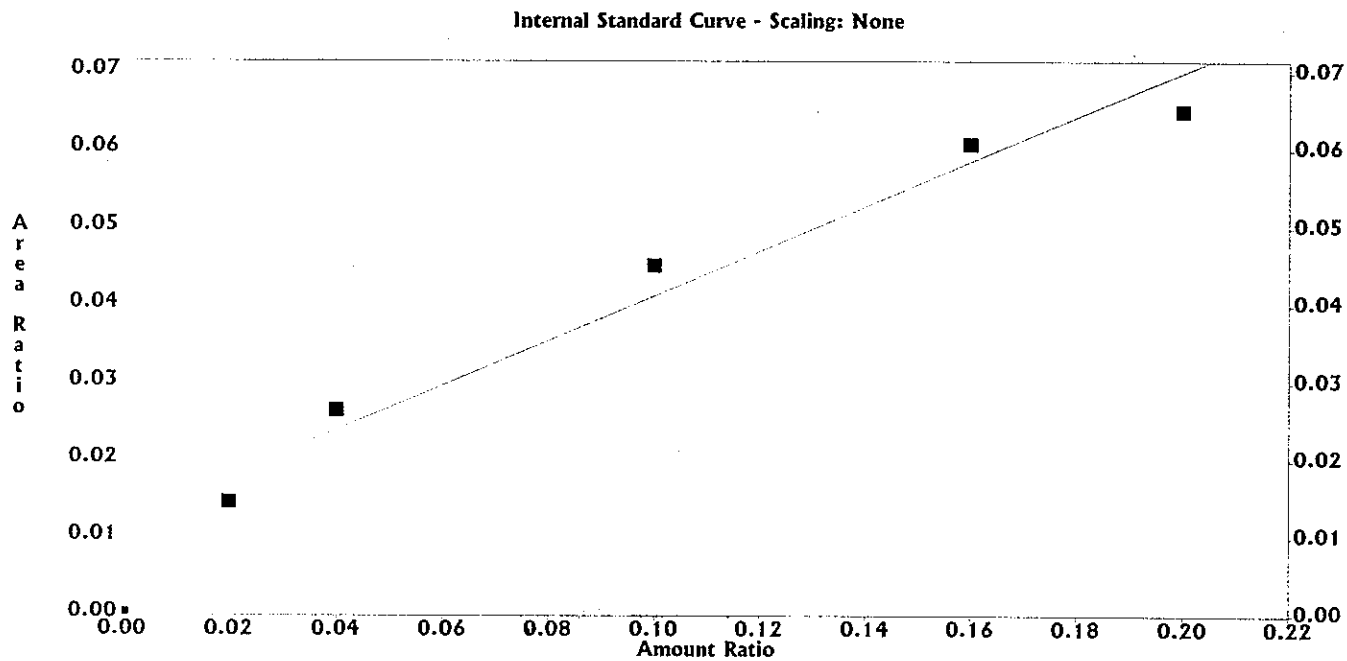
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0147	0.02	0.7329	0.0147							0
2	0.0266	0.04	0.6648	0.0266							0
3	0.0452	0.1	0.4524	0.0452							0
4	0.0608	0.16	0.38	0.0608							0
5	0.0651	0.2	0.3253	0.0651							0

Calib Flag: Replace

Average RF: 0.511087
RF StdDev: 0.17887
RF %RSD: 34.998

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 3.47761 x Area - 0.0436959
R^2 = 0.966498



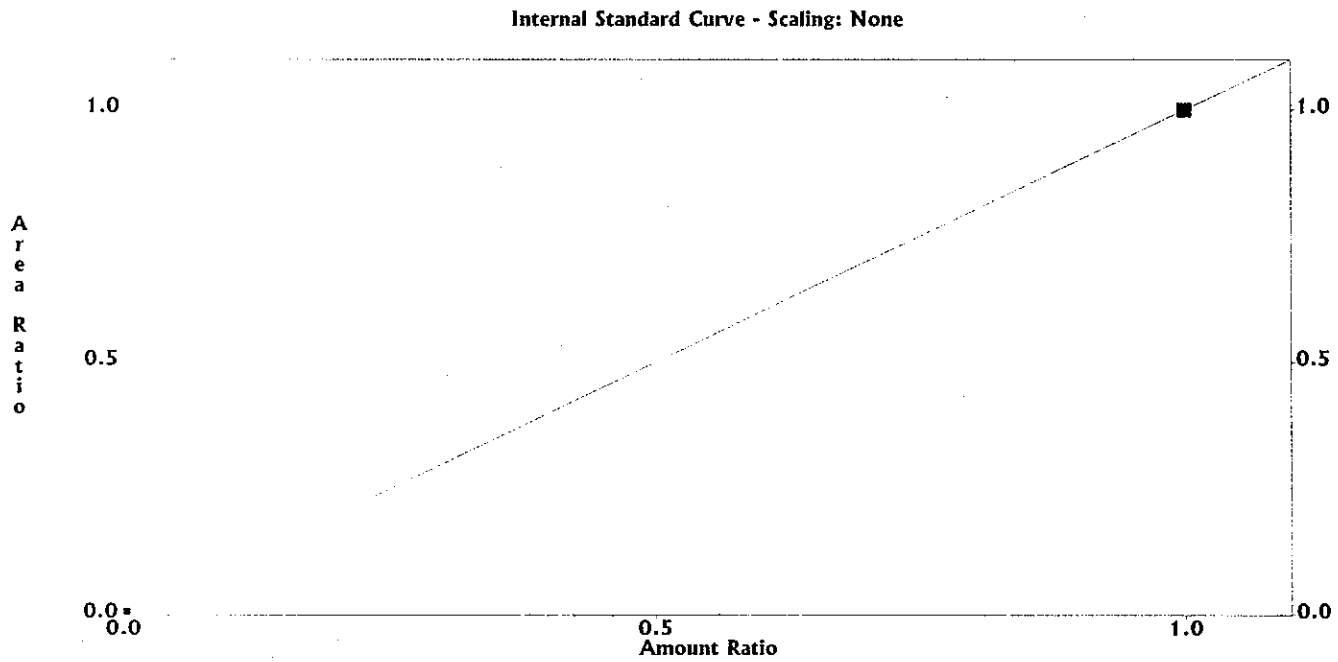
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:09
Channel : B
Peak : 7 DBOB (IS)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:10
Channel : B
Peak : 8 MCPA (ppm)

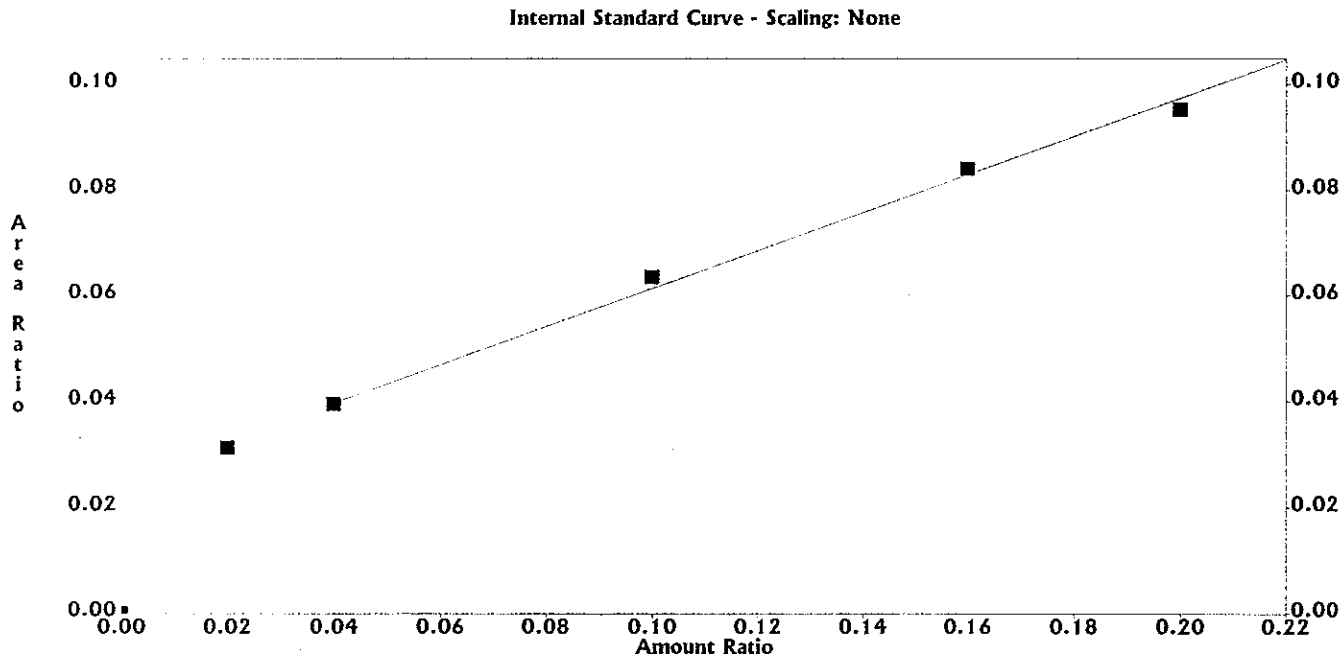
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0313	0.02	1.57	0.0313							0
2	0.0396	0.04	0.9902	0.0396							0
3	0.0635	0.1	0.6355	0.0635							0
4	0.0841	0.16	0.5258	0.0841							0
5	0.0954	0.2	0.4768	0.0954							0

Calib Flag: Replace

Average RF: 0.839008
RF StdDev: 0.453648
RF %RSD: 54.070

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 2.77463 x Area - 0.0702353
R^2 = 0.996153



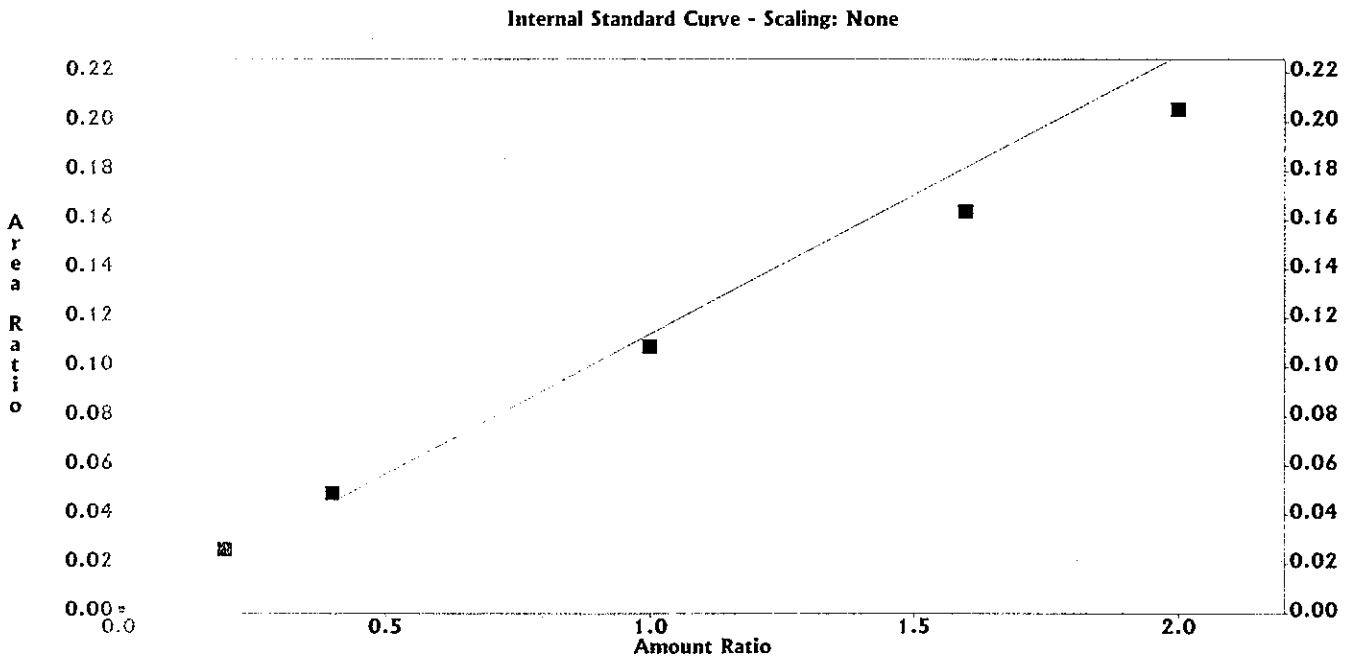
Method : C:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:10
Channel : B
Peak : 9 Dichloroprop

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.2	0.1315	0.0263							0
2	0.0491	0.4	0.1228	0.0491							0
3	0.1085	1	0.1085	0.1085							0
4	0.1636	1.6	0.1023	0.1636							0
5	0.2052	2	0.1026	0.2052							0

Calib Flag Replace

Average RF 0.113524
RF StdDev 0.010741
RF %RSD: 11.386

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.113524



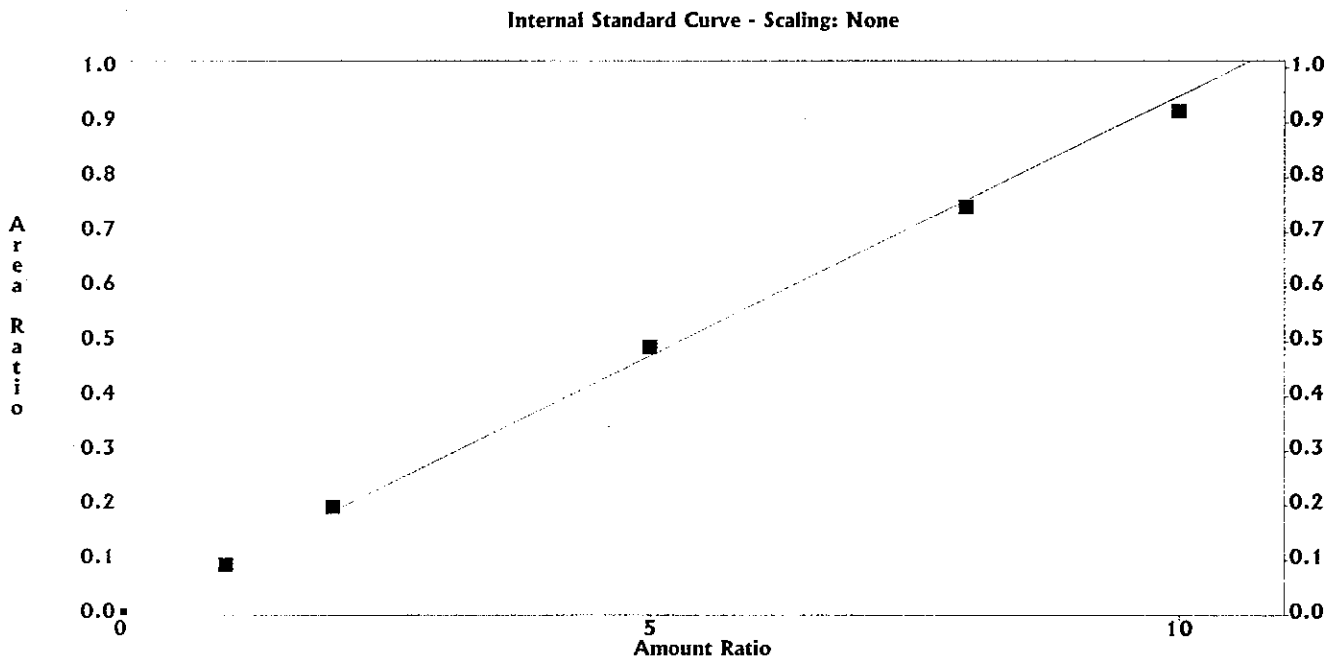
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:10
Channel : B
Peak : 10 2,4-D (m)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0922	1	0.09218	0.0922							0
2	0.1978	2	0.09891	0.1978							0
3	0.4906	5	0.09811	0.4906							0
4	0.7474	8	0.09342	0.7474							0
5	0.9221	10	0.09221	0.9221							0

Calib Flag: Replace

Average RF: 0.0949667
RF StdDev: 0.00328904
RF %RSD: 3.463

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0949667



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:18:11
Channel : B
Peak : 11 Pentachlorphenol

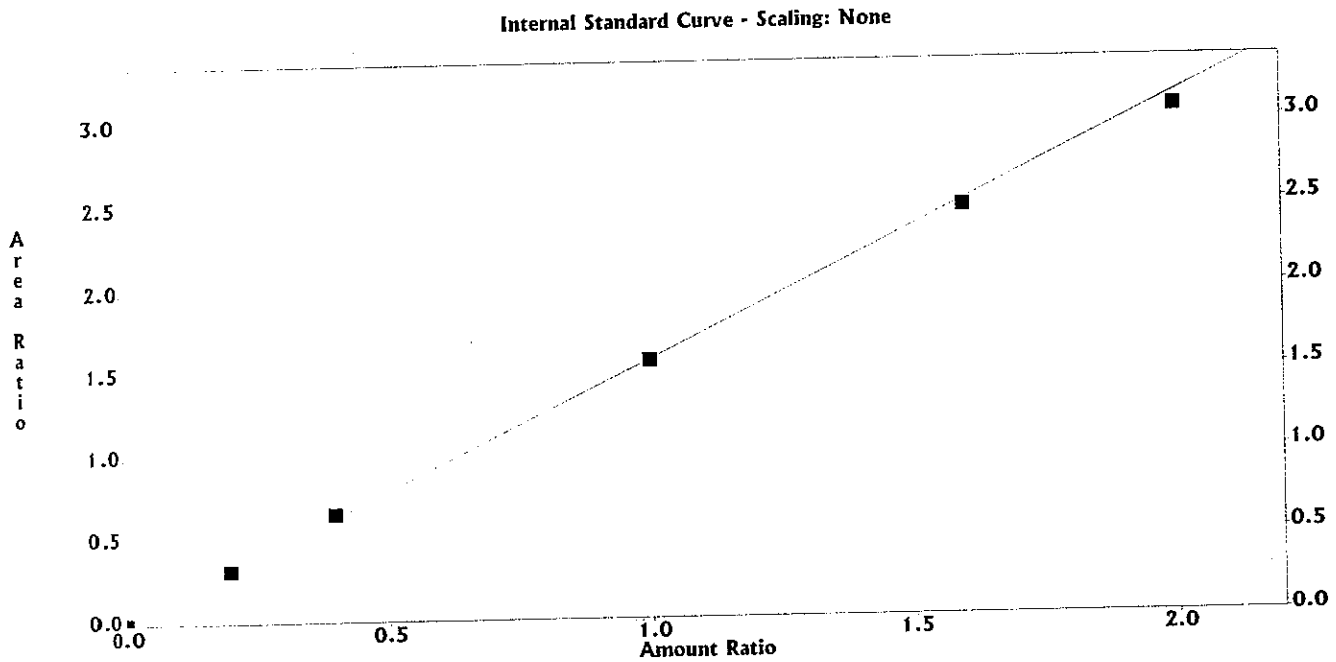
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
											0
1	0.3178	0.2	1.59	0.3178							0
2	0.6516	0.4	1.63	0.6516							0
3	1.5654	1	1.57	1.5654							0
4	2.4791	1.6	1.55	2.4791							0
5	3.0630	2	1.53	3.0630							

Calib Flag: Replace

Average RF: 1.57289
RF StdDev: 0.037824
RF %RSD: 2.405

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.57289



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:11
Channel : B
Peak : 12 Silvex (m)

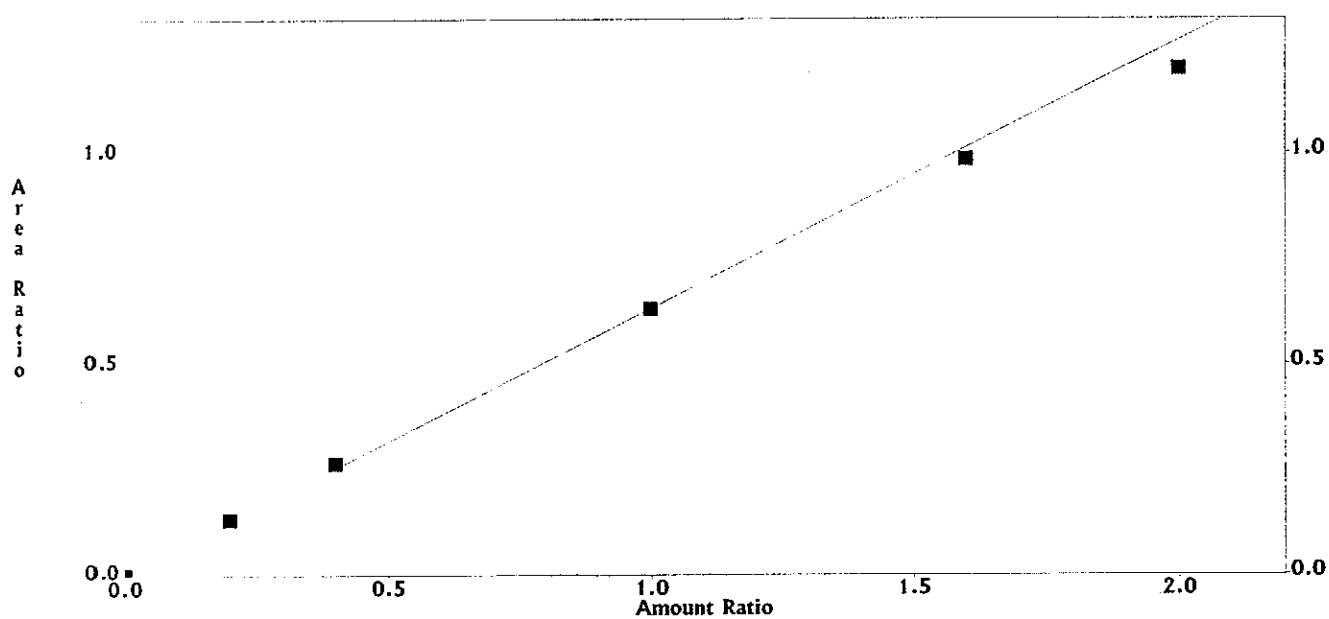
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1311	0.2	0.6555	0.1311							0
2	0.2647	0.4	0.6617	0.2647							0
3	0.6323	1	0.6323	0.6323							0
4	0.9858	1.6	0.6161	0.9858							0
5	1.1983	2	0.5991	1.1983							0

Calib Flag: Replace

Average RF: 0.632949
RF StdDev: 0.0262769
RF %RSD: 4.152

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.632949

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:18:12
Channel : B
Peak : 13 2,4,5-T (m)

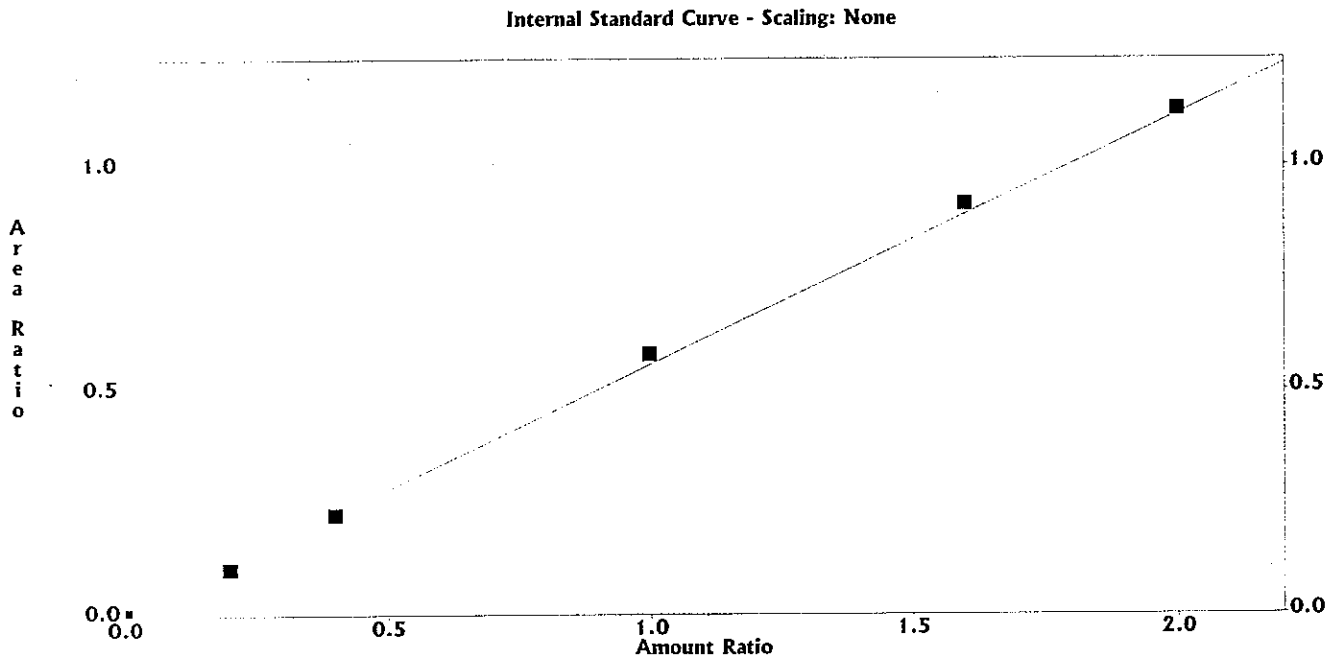
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1028	0.2	0.5141	0.1028							0
2	0.2225	0.4	0.5562	0.2225							0
3	0.5813	1	0.5813	0.5813							0
4	0.9162	1.6	0.5727	0.9162							0
5	1.1270	2	0.5635	1.1270							0

Calib Flag: Replace

Average RF: 0.557553
RF StdDev: 0.0260813
RF %RSD: 4.678

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.557553



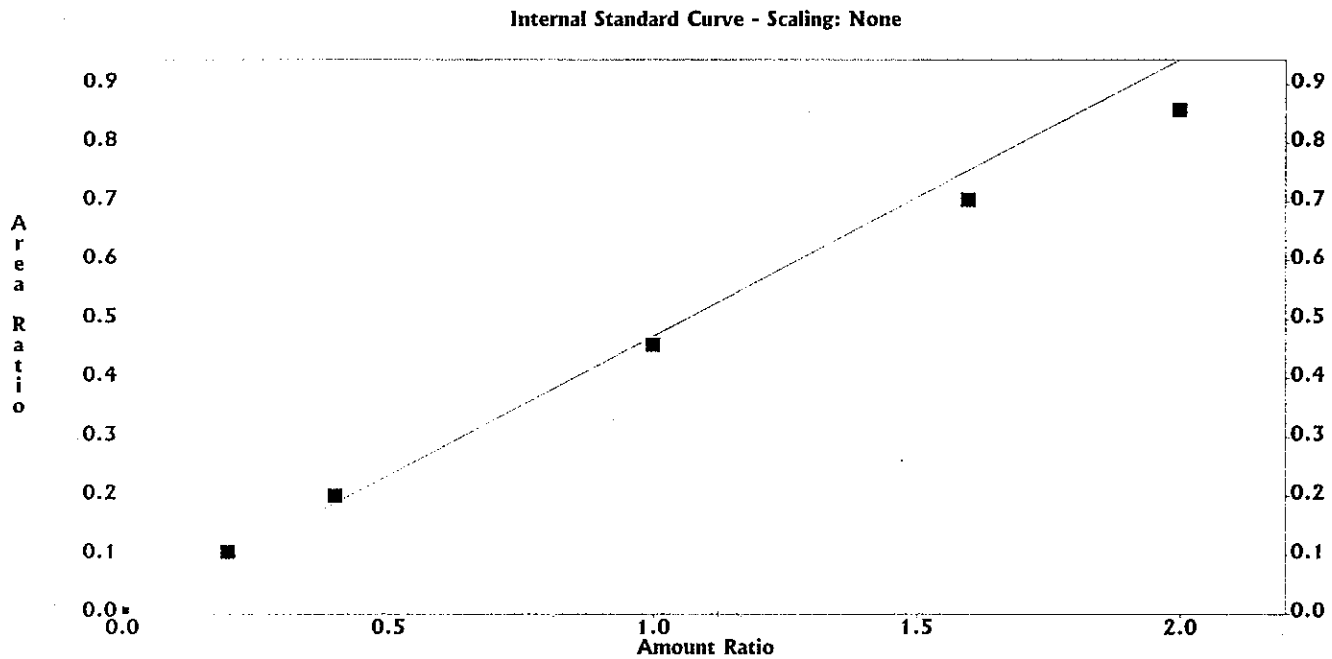
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:12
Channel : B
Peak : 14 Dinoseb

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1055	0.2	0.5275	0.1055							0
2	0.2010	0.4	0.5026	0.2010							0
3	0.4576	1	0.4576	0.4576							0
4	0.7041	1.6	0.4401	0.7041							0
5	0.8576	2	0.4288	0.8576							0

Calib Flag: Replace

Average RF: 0.471303
RF StdDev: 0.0421481
RF %RSD: 8.943

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.471303



Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:12
Channel : B
Peak : 15 Chloramben

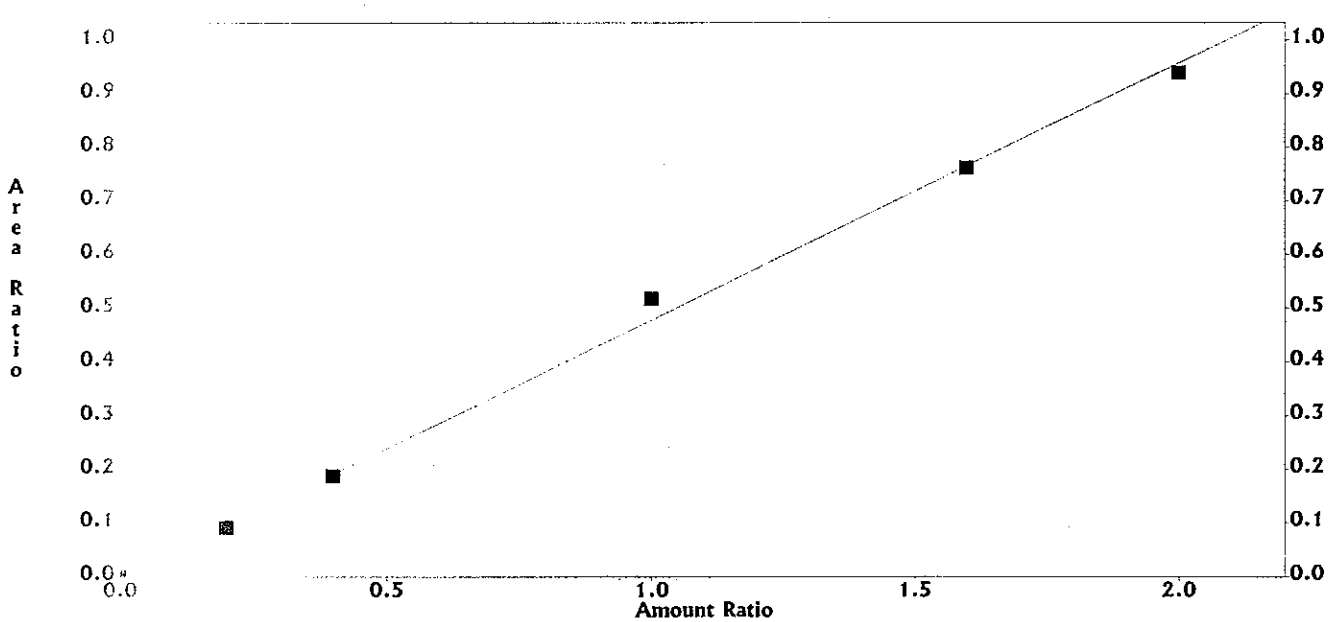
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	[illegible]	[illegible]	0.4599	0.0920							0
2	[illegible]	[illegible]	0.4697	0.1879							0
3	[illegible]	1	0.5181	0.5181							0
4	[illegible]	[illegible]	0.4764	0.7622							0
5	[illegible]	2	0.4698	0.9395							0

Calib Flag: Replace

Average RF: [illegible]
RF StdDev [illegible]
RF %RSD: [illegible]

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.478771

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:18:13
Channel : B
Peak : 16 2,4-DB

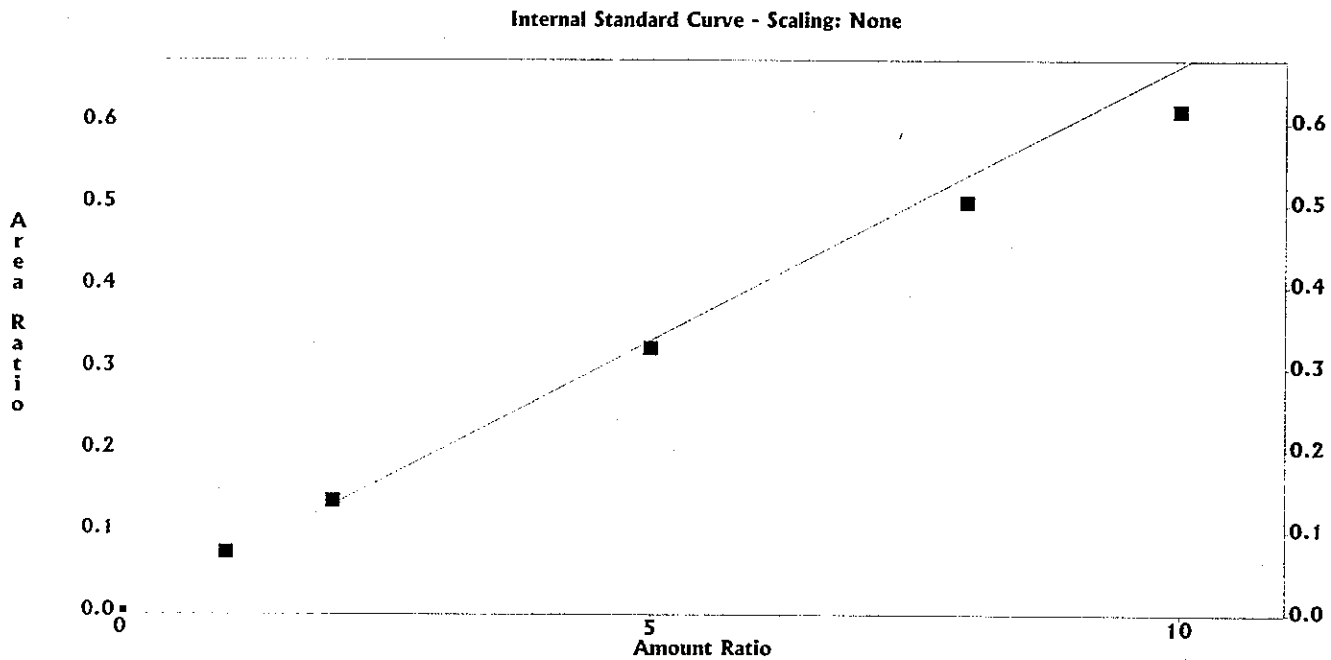
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0762	1	0.0762	0.0762							0
2	0.1389	2	0.06947	0.1389							0
3	0.3259	5	0.06519	0.3259							0
4	0.5038	8	0.06297	0.5038							0
5	0.6163	10	0.06163	0.6163							0

Calib Flag: Replace

Average RF: 0.0670914
RF StdDev: 0.00589656
RF %RSD: 8.789

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.0670914



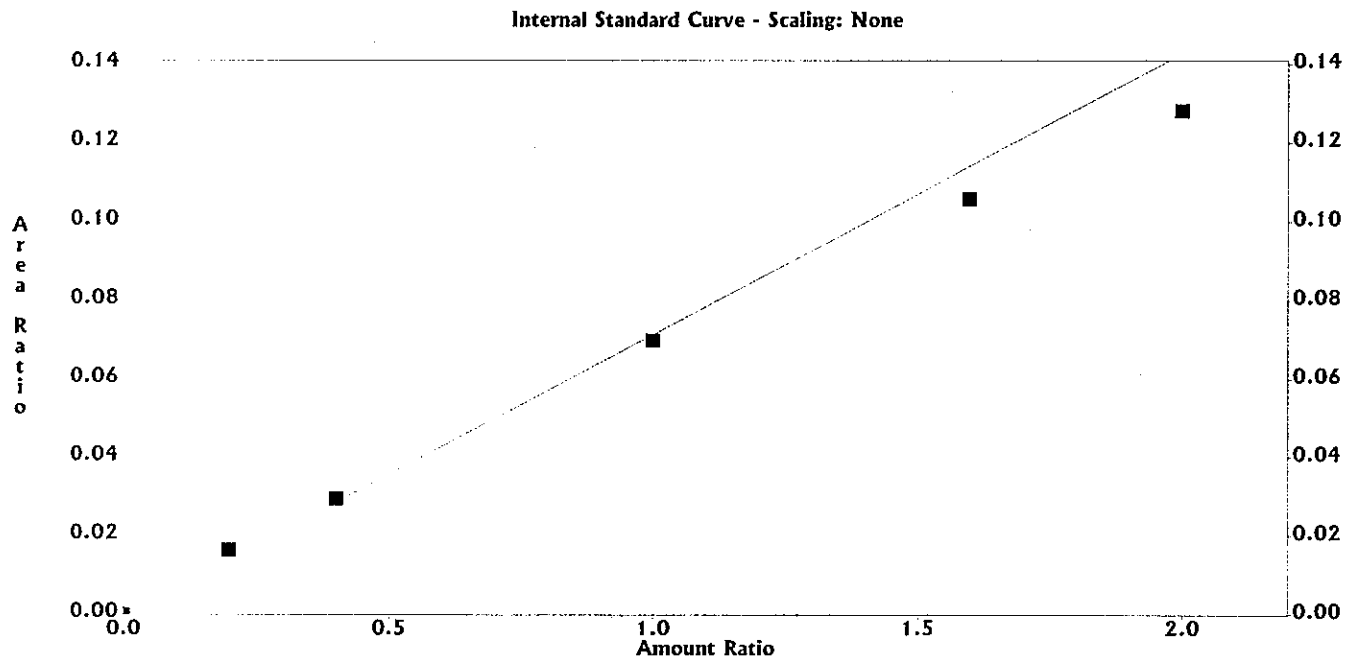
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:13
Channel : B
Peak : 17 Bentazon

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0166	0.2	0.08284	0.0166							0
2	0.0296	0.4	0.0739	0.0296							0
3	0.0699	1	0.06991	0.0699							0
4	0.1059	1.6	0.0662	0.1059							0
5	0.1282	2	0.06409	0.1282							0

Calib Flag: Replace

Average RF: 0.071389
RF StdDev: 0.00741344
RF %RSD: 10.385

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.071389



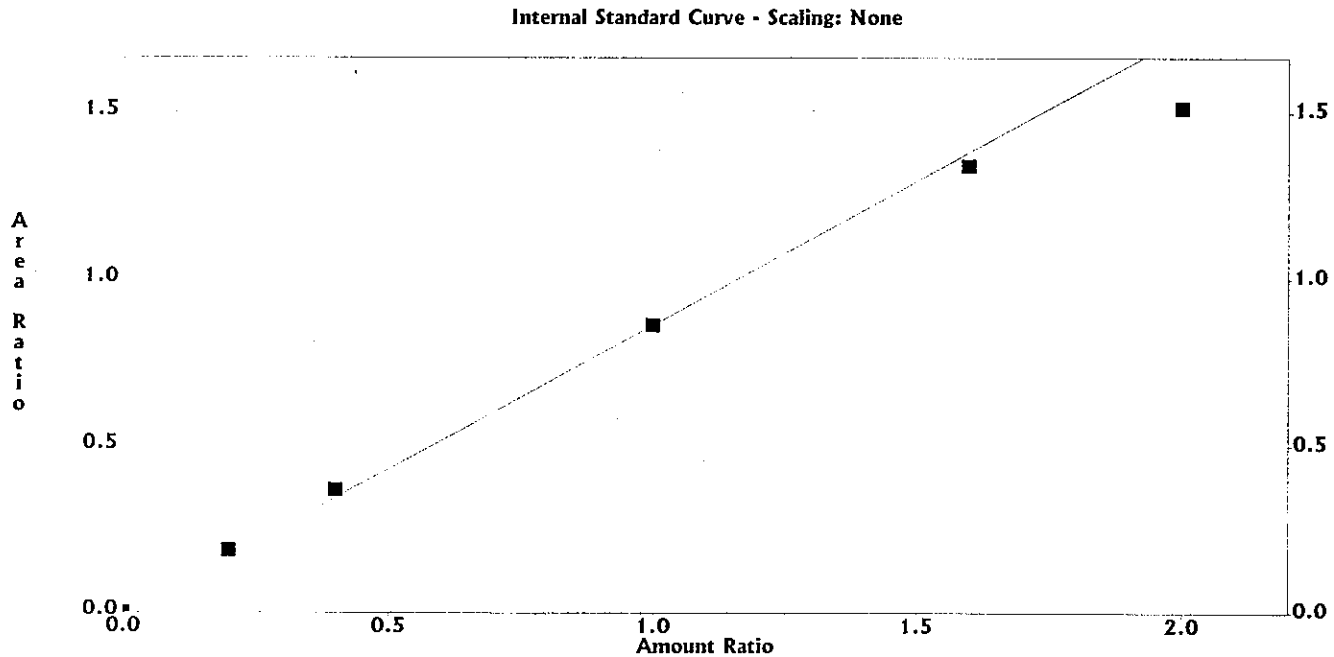
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:14
Channel : B
Peak : 18 DCPA

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1881	0.2	0.9406	0.1881							0
2	0.3687	0.4	0.9217	0.3687							0
3	0.8641	1	0.8641	0.8641							0
4	1.3426	1.6	0.8391	1.3426							0
5	1.5151	2	0.7575	1.5151							0

Calib Flag: Replace

Average RF: 0.864605
RF StdDev: 0.0727083
RF %RSD: 8.409

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.864605



Method : c:\ezchrom\methods\8151-066.t00
Printed : Dec 09, 2004 16:18:14
Channel : B
Peak : 19 Picloram

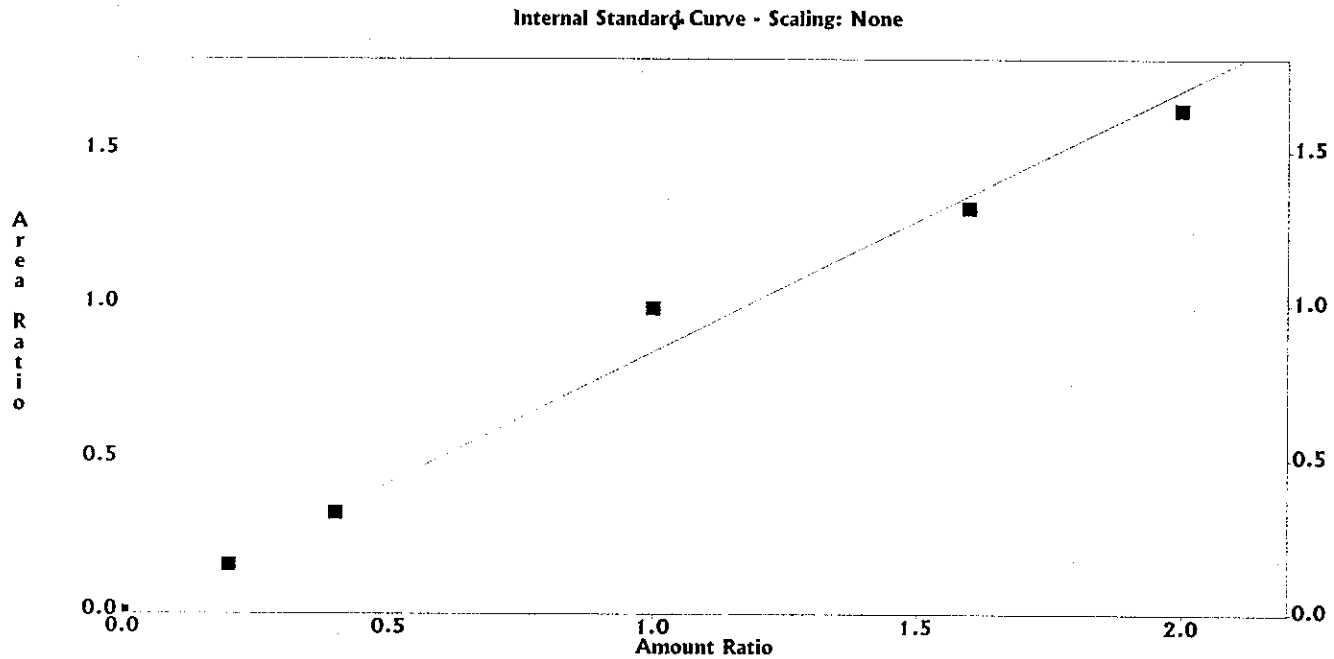
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1591	0.2	0.7956	0.1591							0
2	0.3282	0.4	0.8205	0.3282							0
3	0.9903	1	0.9903	0.9903							0
4	1.3181	1.6	0.8238	1.3181							0
5	1.6370	2	0.8185	1.6370							0

Calib Flag: Replace

Average RF: 0.849758
RF StdDev: 0.0793752
RF %RSD: 9.341

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.849758



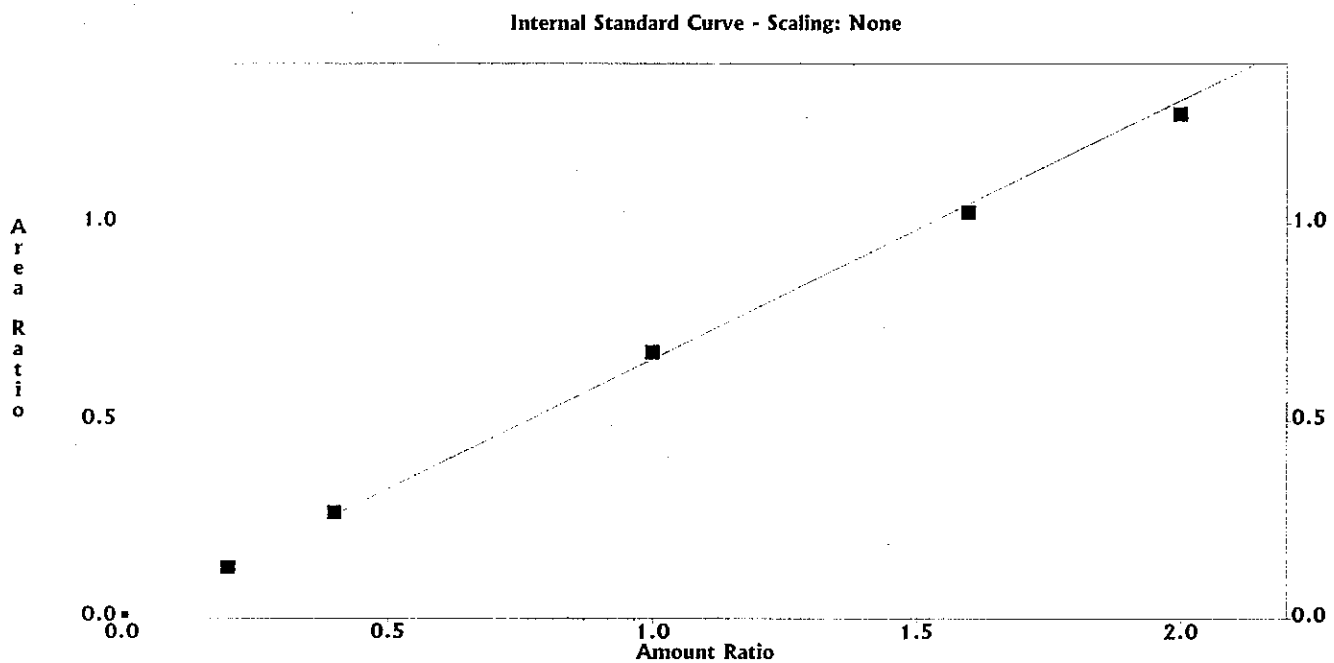
Method : c:\ezchrom\methods\8151-066.t00 * - Replicate Not Used
Printed : Dec 09, 2004 16:18:15
Channel : B
Peak : 20 Acifluorfen

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.1305	0.2	0.6523	0.1305							0
2	0.2690	0.4	0.6725	0.2690							0
3	0.6737	1	0.6737	0.6737							0
4	1.0284	1.6	0.6427	1.0284							0
5	1.2785	2	0.6393	1.2785							0

Calib Flag: Replace

Average RF: 0.656098
RF StdDev: 0.0162456
RF %RSD: 2.476

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.656098



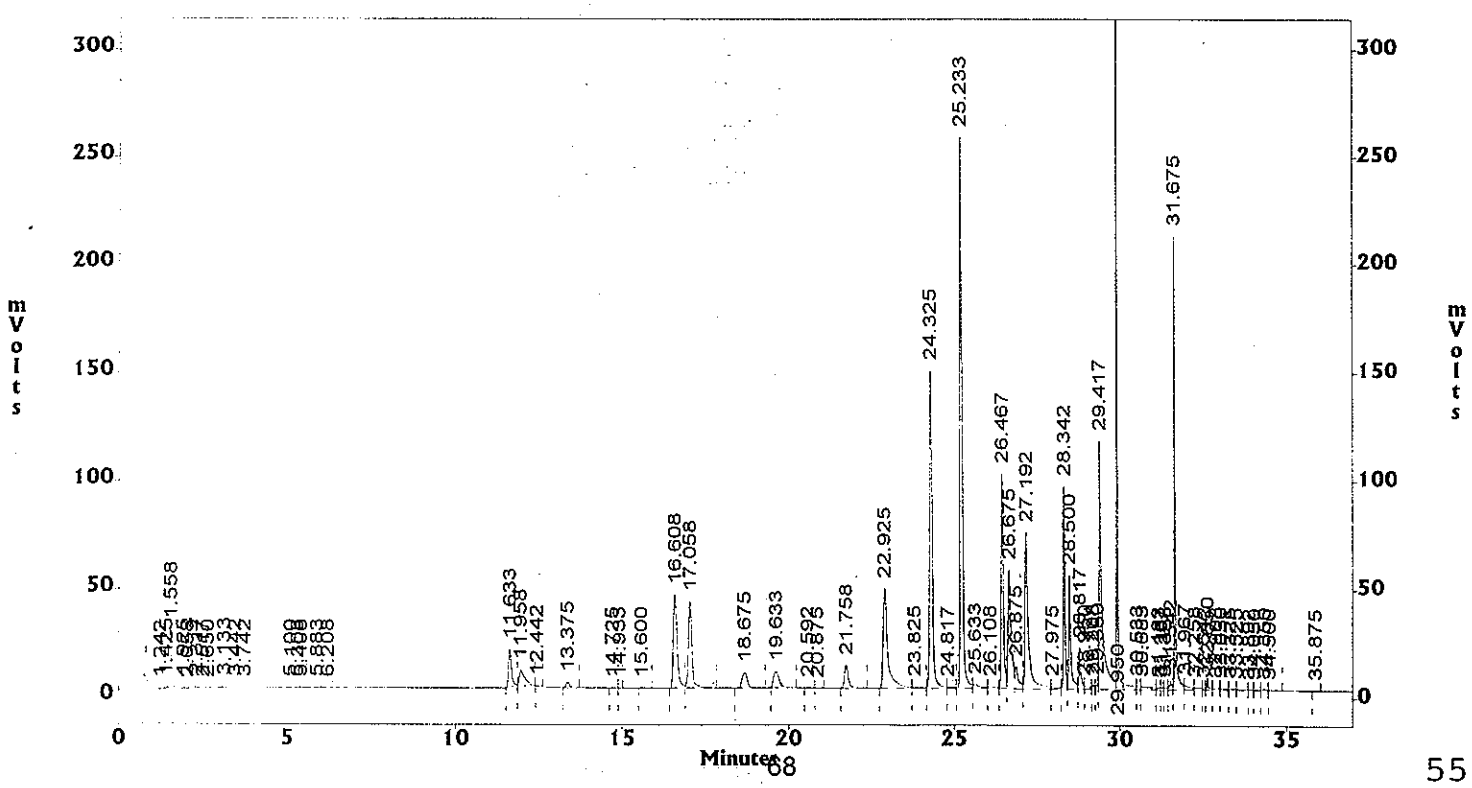
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.icv
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : icv gc16938
Acquired : Dec 09, 2004 01:31:38
Printed : Dec 17, 2004 10:20:06
User : System

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	83952	27039	0.101430	249.34
17	2	3,5-Di-Cl-Bz acid	11.63	108787	17577	0.136961	239.28
18	3	4-Nitrophenol	11.96	78515	7149	0.099783	237.04
24	4	DCAA(Surr)	16.61	330081	43476	0.083432	1191.82
25	5	Dicamba	17.06	292490	40056	0.361668	243.62
26	6	MCPP(ppm)	18.67	76894	7080	1.228394	31.29
27	7	MCPA(PPm)	19.63	92537	7692	1.598133	31.00
30	8	Dichloroprop	21.76	89728	10679	0.106317	254.24
31	9	2,4-D (m)	22.92	459420	46358	0.110653	1250.74
33	10	DBOB (IS)	24.33	829888	147054	1.000000	250.00
35	11	Pentachlorphenol	25.23	1216919	255043	1.476711	248.25
38	12	Silvex (m)	26.47	461763	99574	0.554810	250.72
39	13	Chloramben	26.67	356589	55046	0.461232	232.90
41	14	2,4,5-T (m)	27.19	513223	72519	0.596850	259.04
43	15	Dinoseb	28.34	312921	93818	0.378307	249.18
44	16	2,4-DB	28.50	232811	52836	0.053067	1321.59
45	17	Bentazon	28.82	79128	19094	0.101517	268.28
49	18	Picloram	29.42	670027	115087	0.733773	275.07
50	19	DCPA	29.95	733882	310177	0.869976	254.12
57	20	Acifluorfen	31.67	493724	209668	0.609087	244.19

c:\data\2004\0412\8151t\04g4163\8151t066.icv -- Channel A

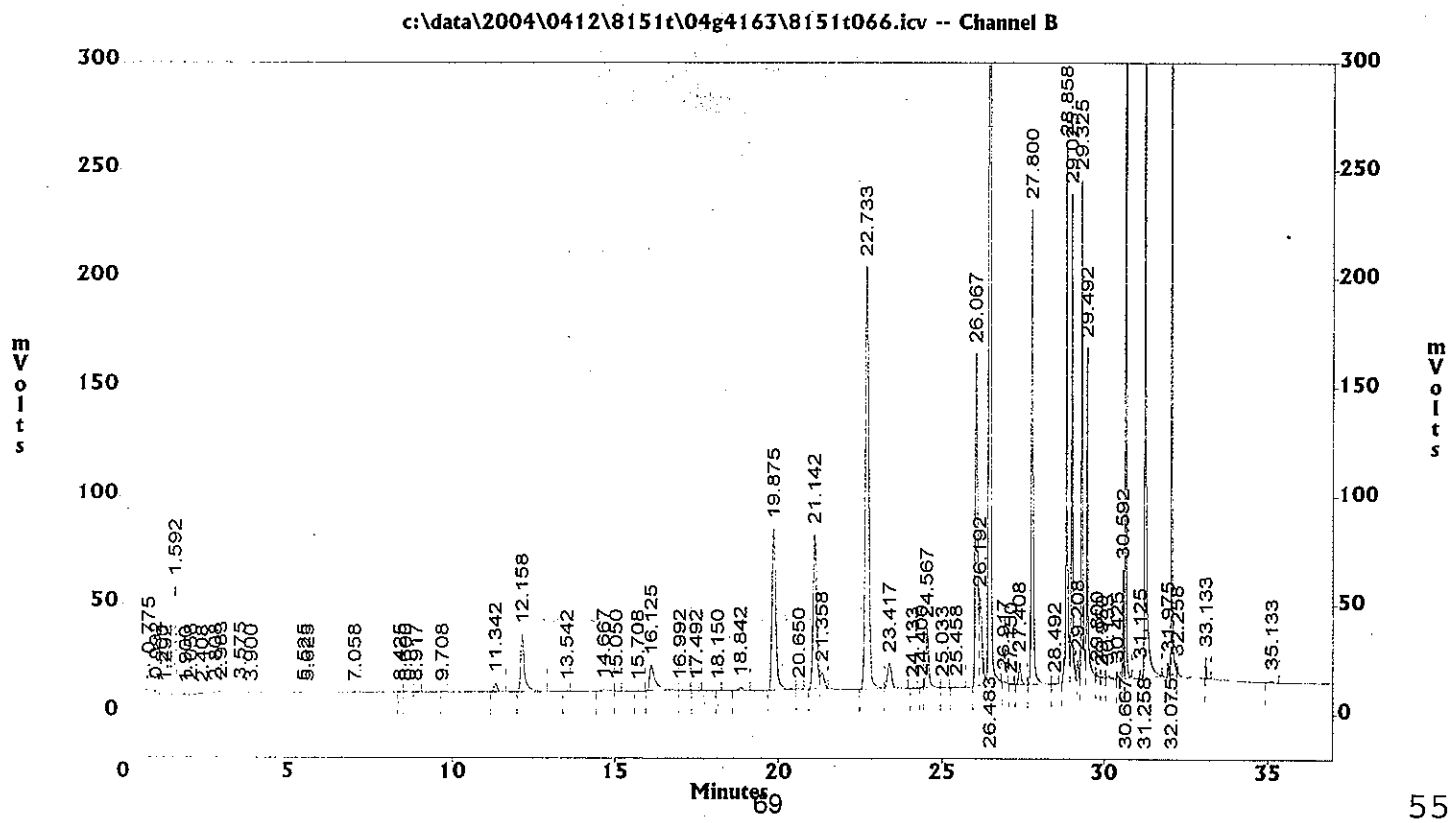


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.icv
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : icv gc16938
Acquired : Dec 09, 2004 01:31:38
Printed : Dec 17, 2004 10:20:06
User : System

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	185439	49634	0.126755	247.14
21	2	3,5-Di-Cl-Bz acid	12.16	223707	26263	0.154483	244.63
26	3	4-Nitrophenol	16.13	145074	11511	0.093535	262.01
31	4	DCAA (surr)	19.88	627510	74212	0.088093	1203.34
33	5	Dicamba	21.14	541280	71314	0.371609	246.06
34	6	MCPP (ppm)	21.36	61336	7345	0.511087	25.11
35	7	DBOB (IS)	22.73	1479902	194442	1.000000	250.00
36	8	MCPA (ppm)	23.42	96561	11532	0.839008	27.70
39	9	Dichloroprop	24.57	160518	27046	0.113524	238.86
42	10	2,4-D (m)	26.07	707872	153105	0.094967	1259.19
44	11	Pentachlorphenol	26.48	2288541	527200	1.572894	245.79
48	12	Silvex (m)	27.80	933025	218872	0.632949	249.02
50	13	2,4,5-T (m)	28.86	835794	246682	0.557553	253.23
51	14	Dinoseb	29.02	660473	224196	0.471303	236.73
53	15	Chloramben	29.33	708442	229363	0.478771	249.97
54	16	2,4-DB	29.49	448827	151482	0.067091	1130.11
59	17	Bentazon	30.59	100194	50531	0.071389	237.09
60	18	DCPA	30.67	1269633	638640	0.864605	248.07
62	19	Picloram	31.26	1317571	488008	0.849758	261.93
64	20	Acifluorfen	32.08	924036	475834	0.656098	237.92



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151t066.icv
ID: icv gc16938 -- Dec 09, 2004 01:31:38
Printed: Dec 17, 2004 10:25:03

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	249.336	0.266	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	239.278	4.289	15.000	Passed
3 4-Nitrophenol	250.000	237.037	5.185	15.000	Passed
4 DCAA(Surr)	1200.000	1191.821	0.682	15.000	Passed
5 Dicamba	250.000	243.625	2.550	15.000	Passed
6 MCPP(ppm)	25.000	31.294	25.176	15.000	Failed
7 MCPA(PPm)	25.000	30.995	23.981	15.000	Failed
8 Dichloroprop	250.000	254.240	1.696	15.000	Passed
9 2,4-D (m)	1250.000	1250.743	0.059	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	248.249	0.701	15.000	Passed
12 Silvex (m)	250.000	250.724	0.289	15.000	Passed
13 Chloramben	250.000	232.900	6.840	15.000	Passed
14 2,4,5-T (m)	250.000	259.037	3.615	15.000	Passed
15 Dinoseb	250.000	249.178	0.329	15.000	Passed
16 2,4-DB	1250.000	1321.587	5.727	15.000	Passed
17 Bentazon	250.000	268.285	7.314	15.000	Passed
18 Picloram	250.000	275.075	10.030	15.000	Passed
19 DCPA	250.000	254.120	1.648	15.000	Passed
20 Acifluorfen	250.000	244.188	2.325	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	247.140	1.144	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.628	2.149	15.000	Passed
3 4-Nitrophenol	250.000	262.012	4.805	15.000	Passed
4 DCAA (surr)	1200.000	1203.338	0.278	15.000	Passed
5 Dicamba	250.000	246.061	1.576	15.000	Passed
6 MCPP (ppm)	25.000	25.109	0.437	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	27.701	10.804	15.000	Passed
9 Dichloroprop	250.000	238.860	4.456	15.000	Passed
10 2,4-D (m)	1250.000	1259.188	0.735	15.000	Passed
11 Pentachlorphenol	250.000	245.791	1.684	15.000	Passed
12 Silvex (m)	250.000	249.018	0.393	15.000	Passed
13 2,4,5-T (m)	250.000	253.233	1.293	15.000	Passed
14 Dinoseb	250.000	236.735	5.306	15.000	Passed
15 Chloramben	250.000	249.967	0.013	15.000	Passed

16 2,4-DB	1250.000	1130.106	9.591	15.000	Passed
17 Bentazon	250.000	237.092	5.163	15.000	Passed
18 DCPA	250.000	248.066	0.774	15.000	Passed
19 Picloram	250.000	261.930	4.772	15.000	Passed
20 Acifluorfen	250.000	237.918	4.833	15.000	Passed

Signature _____

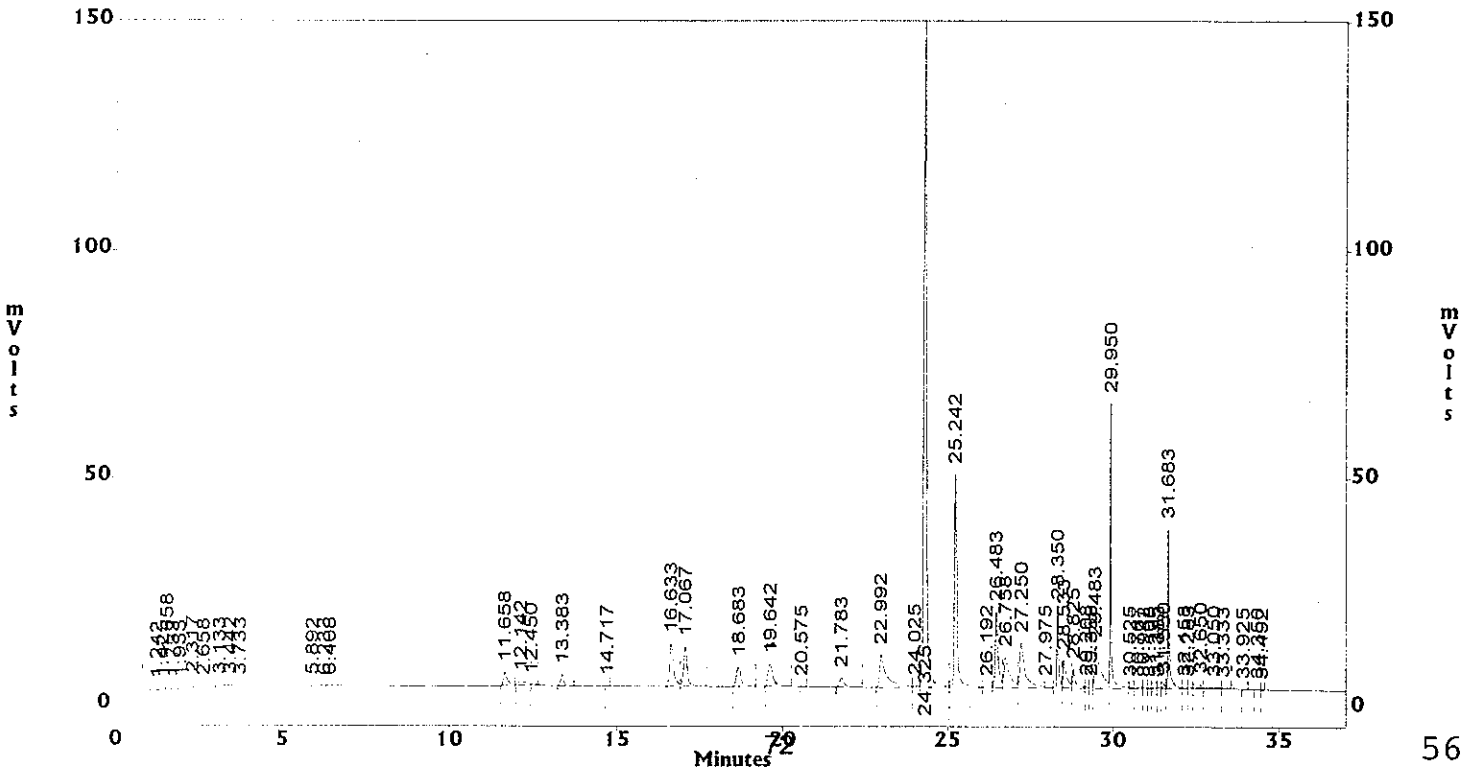
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.051
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 50ppb gc16860
Acquired : Dec 08, 2004 22:07:52
Printed : Dec 15, 2004 16:37:01
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	18106	5976	0.100993	50.00
14	2	3,5-Di-Cl-Bz acid	11.66	25182	2979	0.136352	50.00
15	3	4-Nitrophenol	12.14	13487	847	0.097639	50.00
19	4	DCAA(Surr)	16.63	79867	9313	0.083168	250.00
20	5	Dicamba	17.07	67312	8589	0.362653	50.00
21	6	MCPP(ppm)	18.68	39123	4152	1.234892	5.00
22	7	MCPA(PPm)	19.64	54141	4864	1.609097	5.00
24	8	Dichloroprop	21.78	20036	2057	0.108614	50.00
25	9	2,4-D (m)	22.99	107635	7052	0.113541	250.00
27	10	DBOB (IS)	24.33	803520	146088	1.000000	250.00
28	11	Pentachlorphenol	25.24	263884	46848	1.493160	50.00
30	12	Silvex (m)	26.48	95858	16562	0.556278	50.00
31	13	Chloramben	26.76	83441	6695	0.465137	50.00
32	14	2,4,5-T (m)	27.25	108214	9771	0.603972	50.00
34	15	Dinoseb	28.35	65580	17023	0.380012	50.00
35	16	2,4-DB	28.53	44699	6118	0.053632	250.00
36	17	Bentazon	28.83	26133	4160	0.106744	50.00
39	18	Picloram	29.48	110050	8852	0.741129	50.00
40	19	DCPA	29.95	163749	62704	0.881977	50.00
48	20	Acifluorfen	31.68	106650	34962	0.606511	50.00

c:\data\2004\0412\8151t\04g4163\8151t066.051 -- Channel A

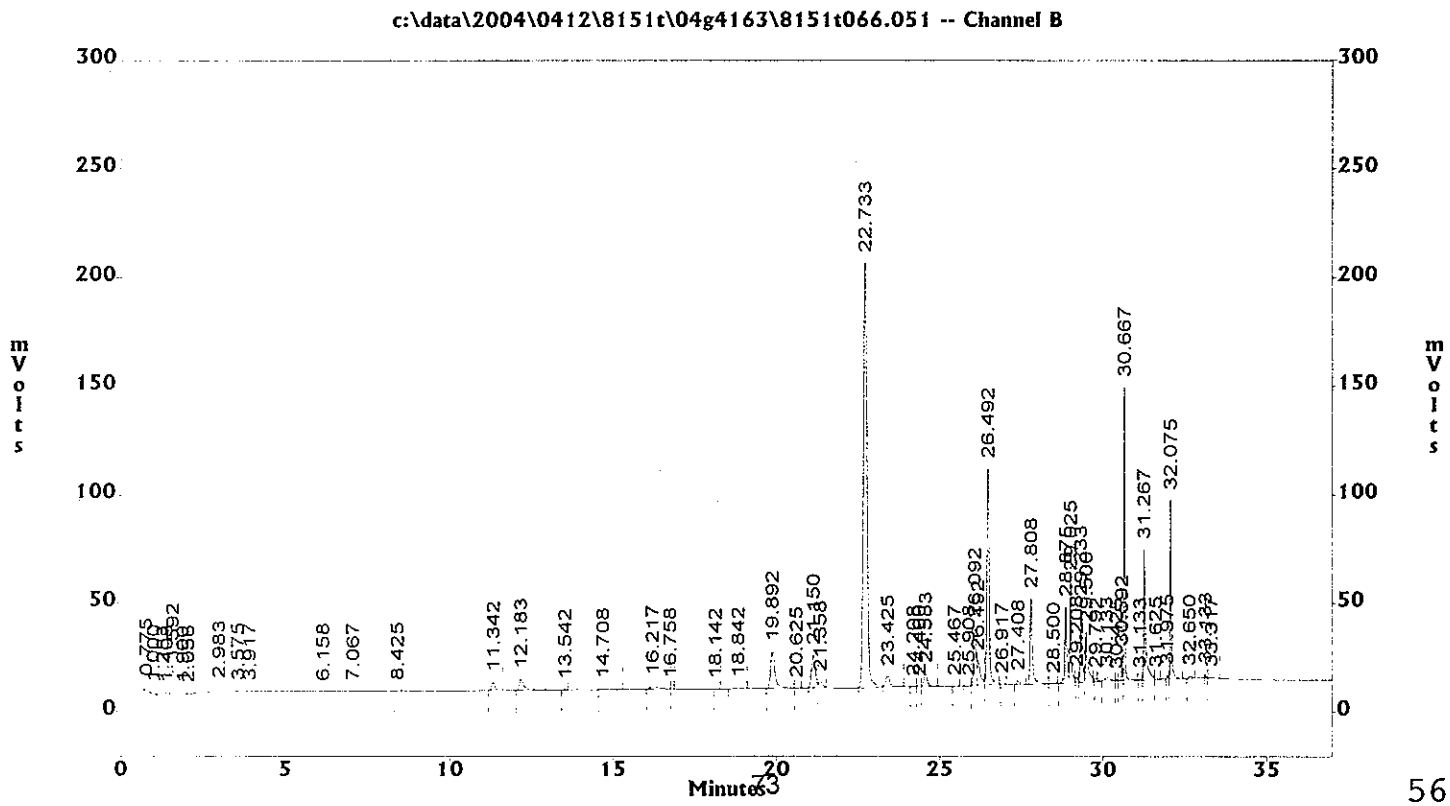


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.051
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 50ppb gc16860
Acquired : Dec 08, 2004 22:07:52
Printed : Dec 15, 2004 16:37:02
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	40270	10539	0.126755	50.00
15	2	3,5-Di-Cl-Bz acid	12.18	52379	5061	0.154483	50.00
18	3	4-Nitrophenol	16.22	23700	1532	0.093535	50.00
22	4	DCAA (surr)	19.89	155891	16869	0.088093	250.00
24	5	Dicamba	21.15	119065	15108	0.371609	50.00
25	6	MCPP (ppm)	21.36	22198	2714	0.511087	5.00
26	7	DBOB (IS)	22.73	1514302	195964	1.000000	250.00
27	8	MCPA (ppm)	23.42	47451	5160	0.839008	5.00
30	9	Dichloroprop	24.58	39834	6145	0.113524	50.00
33	10	2,4-D (m)	26.09	139586	26403	0.094967	250.00
35	11	Pentachlorphenol	26.49	481302	99778	1.572894	50.00
38	12	Silvex (m)	27.81	198516	39470	0.632949	50.00
40	13	2,4,5-T (m)	28.88	155688	35210	0.557553	50.00
41	14	Dinoseb	29.02	159751	46829	0.471303	50.00
43	15	Chloramben	29.33	139281	34957	0.478771	50.00
44	16	2,4-DB	29.50	115391	22894	0.067091	250.00
48	17	Bentazon	30.59	25090	11490	0.071389	50.00
49	18	DCPA	30.67	284861	135405	0.864605	50.00
51	19	Picloram	31.27	240966	60280	0.849758	50.00
54	20	Acifluorfen	32.08	197544	82657	0.656098	50.00

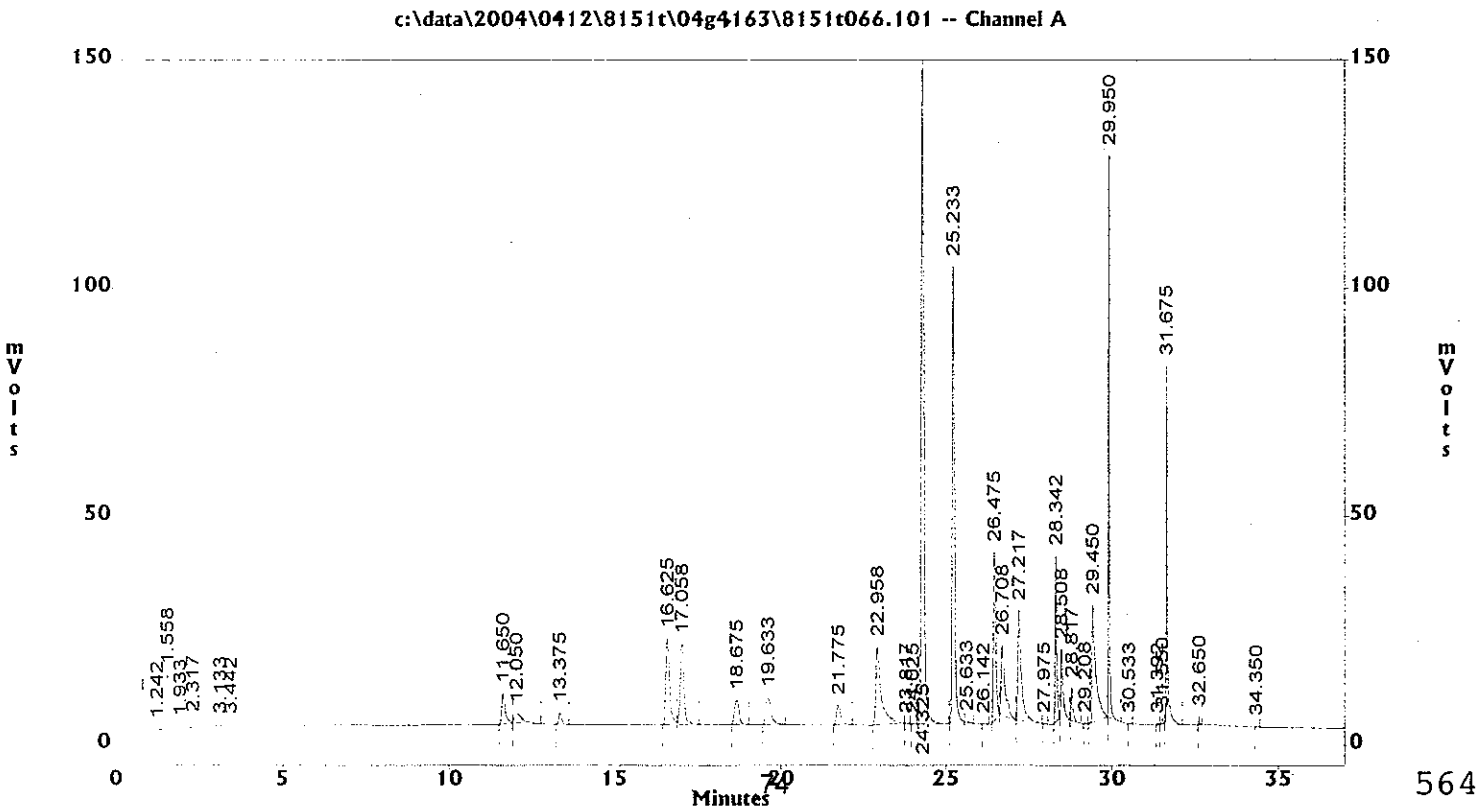


Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.101
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 100ppb gc16861
Acquired : Dec 08, 2004 22:48:35
Printed : Dec 09, 2004 14:24:21
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.56	44430	11938	0.110530	100.00
7	2	3,5-Di-Cl-Bz acid	11.65	48171	6727	0.136279	100.00
8	3	4-Nitrophenol	12.05	35241	2103	0.094227	100.00
10	4	DCAA(Surr)	16.63	153576	18988	0.083946	500.00
11	5	Dicamba	17.06	128670	17581	0.363944	100.00
12	6	MCPP(ppm)	18.67	52320	5298	1.234255	10.00
13	7	MCPA(PPm)	19.63	69713	5968	1.605409	10.00
14	8	Dichloroprop	21.77	38545	4334	0.107000	100.00
15	9	2,4-D (m)	22.96	196775	17166	0.108981	500.00
18	10	DBOB (IS)	24.33	810075	145678	1.000000	250.00
19	11	Pentachlorphenol	25.23	496151	100192	1.468628	100.00
22	12	Silvex (m)	26.48	176270	37028	0.519701	100.00
23	13	Chloramben	26.71	124374	15500	0.351688	100.00
24	14	2,4,5-T (m)	27.22	177165	24130	0.530414	100.00
26	15	Dinoseb	28.34	122733	36476	0.362557	100.00
27	16	2,4-DB	28.51	68805	15271	0.043498	500.00
28	17	Bentazon	28.82	25397	7191	0.072886	100.00
30	18	Picloram	29.45	203604	25786	0.668819	100.00
31	19	DCPA	29.95	281121	123170	0.807660	100.00
35	20	Acifluorfen	31.67	202122	78270	0.587172	100.00

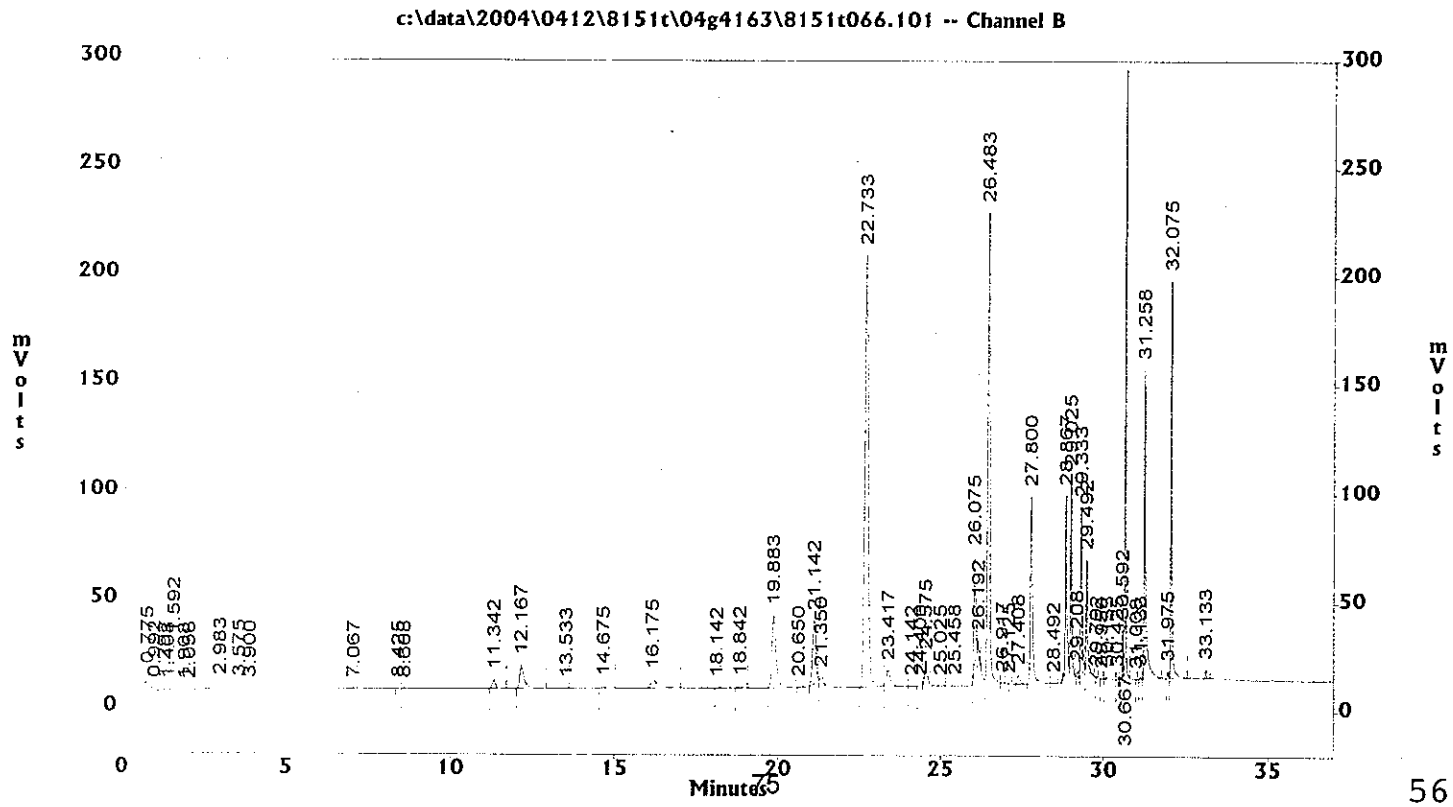


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.101
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 100ppb gc16861
Acquired : Dec 08, 2004 22:48:35
Printed : Dec 09, 2004 14:24:21
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	81355	21032	0.126755	100.00
15	2	3,5-Di-Cl-Bz acid	12.17	101966	10822	0.154483	100.00
18	3	4-Nitrophenol	16.17	59304	3930	0.093535	100.00
21	4	DCAA (surr)	19.88	294480	33421	0.088093	500.00
23	5	Dicamba	21.14	208453	28968	0.335087	100.00
24	6	MCPP (ppm)	21.35	15936	2280	0.206067	10.00
25	7	DBOB (IS)	22.73	1516322	199257	1.000000	250.00
26	8	MCPA (ppm)	23.42	60057	7186	0.839008	10.00
29	9	Dichloroprop	24.58	74485	11898	0.112687	100.00
32	10	2,4-D (m)	26.08	208016	50819	0.077344	500.00
34	11	Pentachlorphenol	26.48	938247	215835	1.517652	100.00
38	12	Silvex (m)	27.80	401352	86588	0.632949	100.00
40	13	2,4,5-T (m)	28.87	279565	81680	0.485903	100.00
41	14	Dinoseb	29.02	249138	88930	0.398872	100.00
43	15	Chloramben	29.33	250250	77487	0.429951	100.00
44	16	2,4-DB	29.49	150490	50476	0.050905	500.00
49	17	Bentazon	30.59	39021	21659	0.064821	100.00
50	18	DCPA	30.67	540762	279254	0.845466	100.00
53	19	Picloram	31.26	497646	142341	0.837348	100.00
55	20	Acifluorfen	32.08	407901	182898	0.646946	100.00



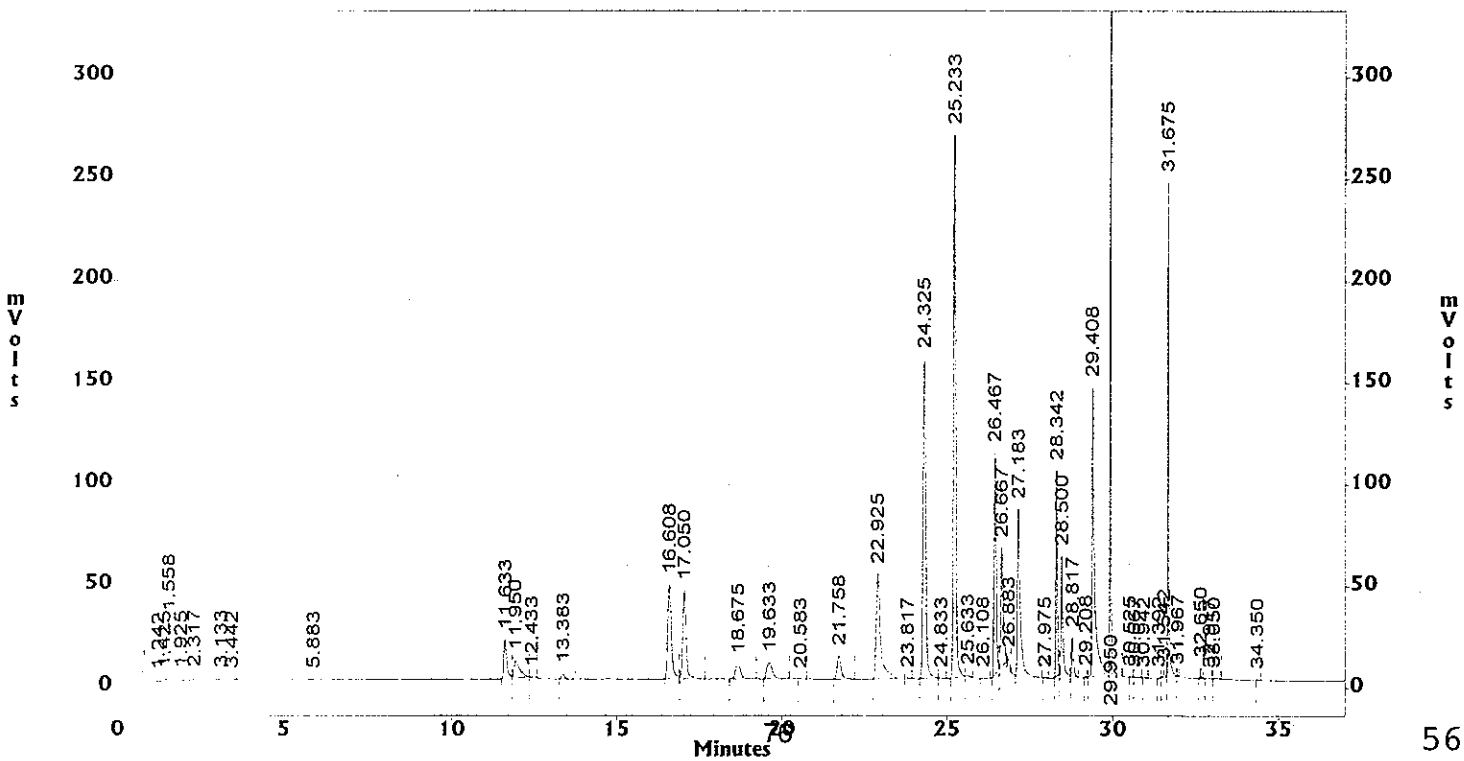
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.251
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 08, 2004 23:29:22
Printed : Dec 09, 2004 14:24:53
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	88472	28396	0.110530	250.00
9	2	3,5-Di-Cl-Bz acid	11.63	116248	18941	0.136279	250.00
10	3	4-Nitrophenol	11.95	87287	8242	0.094227	250.00
13	4	DCAA(Surr)	16.61	353080	46729	0.083946	1250.00
14	5	Dicamba	17.05	312580	43482	0.363944	250.00
15	6	MCPP(ppm)	18.67	78332	7279	1.234255	25.00
16	7	MCPA(PPm)	19.63	95123	7997	1.605409	25.00
18	8	Dichloroprop	21.76	95198	11468	0.107000	250.00
19	9	2,4-D (m)	22.92	481714	51828	0.108981	1250.00
21	10	DBOB (IS)	24.33	872983	157365	1.000000	250.00
23	11	Pentachlorphenol	25.23	1280386	266804	1.468628	250.00
26	12	Silvex (m)	26.47	461741	109300	0.519701	250.00
27	13	Chloramben	26.67	309813	58720	0.351688	250.00
29	14	2,4,5-T (m)	27.18	483760	81900	0.530414	250.00
31	15	Dinoseb	28.34	321569	101220	0.362557	250.00
32	16	2,4-DB	28.50	203927	58147	0.043498	1250.00
33	17	Bentazon	28.82	64174	19122	0.072886	250.00
35	18	Picloram	29.41	714953	142621	0.668819	250.00
36	19	DCPA	29.95	702010	325195	0.807660	250.00
42	20	Acifluorfen	31.67	522101	243001	0.587172	250.00

c:\data\2004\0412\8151t\04g4163\8151t066.251 -- Channel A

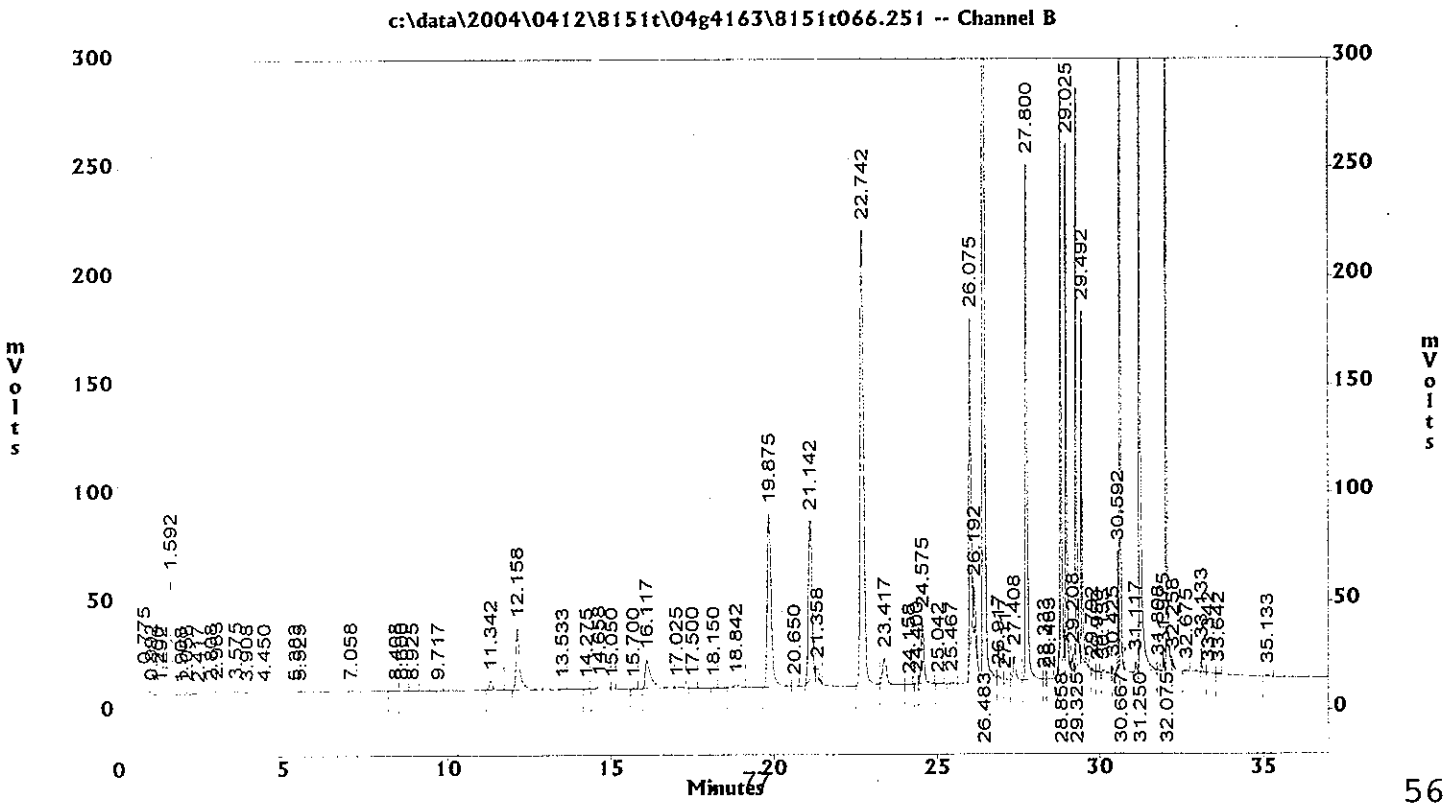


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.251
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 08, 2004 23:29:22
Printed : Dec 09, 2004 14:24:53
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.59	194357	52319	0.126755	250.00
22	2	3,5-Di-Cl-Bz acid	12.16	239619	28359	0.154483	250.00
28	3	4-Nitrophenol	16.12	159536	13190	0.093535	250.00
33	4	DCAA (surr)	19.88	674348	79824	0.088093	1250.00
35	5	Dicamba	21.14	531592	73187	0.335087	250.00
36	6	MCPP (ppm)	21.36	25878	3908	0.206067	25.00
37	7	DBOB (IS)	22.74	1593745	209959	1.000000	250.00
38	8	MCPA (ppm)	23.42	101282	12128	0.839008	25.00
41	9	Dichloroprop	24.58	172846	29928	0.112687	250.00
44	10	2,4-D (m)	26.08	612493	149975	0.077344	1250.00
46	11	Pentachlorphenol	26.48	2435425	559159	1.517652	250.00
50	12	Silvex (m)	27.80	1007717	237819	0.632949	250.00
53	13	2,4,5-T (m)	28.86	839533	260414	0.485903	250.00
54	14	Dinoseb	29.02	648681	237095	0.398872	250.00
56	15	Chloramben	29.33	762370	266430	0.429951	250.00
57	16	2,4-DB	29.49	419889	160714	0.050905	1250.00
62	17	Bentazon	30.59	98433	53498	0.064821	250.00
63	18	DCPA	30.67	1343225	678034	0.845466	250.00
65	19	Picloram	31.25	1556405	600347	0.837348	250.00
68	20	Acifluorfen	32.08	1048752	543099	0.646946	250.00



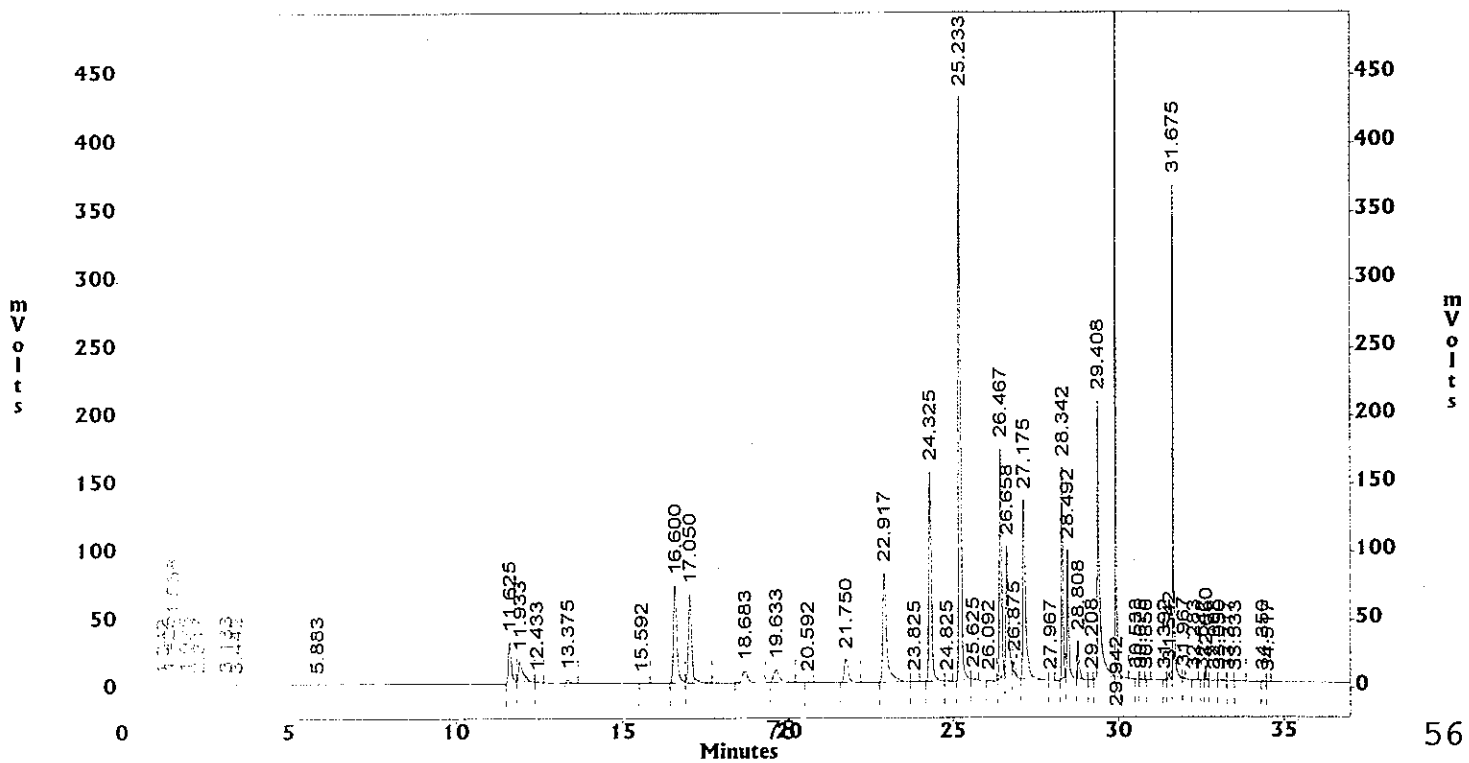
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.401
Meth : c:\ezchrom\methods\8151-066.t00
Sam : 400ppb gc16863
Acq : Dec 09, 2004 00:10:08
Prin : Dec 09, 2004 14:25:29
Use : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
[illegible]	[illegible]	1.56	132908	43611	0.110530	400.00
[illegible]	[illegible]-Cl-Bz acid	11.63	176902	30165	0.136279	400.00
1[illegible]	[illegible]phenol	11.93	138938	15004	0.094227	400.00
1[illegible]	[illegible])	16.60	514872	72170	0.083946	2000.00
1[illegible]	[illegible]a	17.05	465399	65408	0.363944	400.00
1[illegible]	[illegible] (pm)	18.68	94882	8639	1.234255	40.00
1[illegible]	[illegible] (Pm)	19.63	111149	9681	1.605409	40.00
19	[illegible]croprop	21.75	139438	17200	0.107000	400.00
20	[illegible] (m)	22.92	695228	81002	0.108981	2000.00
22	[illegible] (IS)	24.33	873474	154951	1.000000	250.00
24	[illegible]chlorphenol	25.23	1981790	428461	1.468628	400.00
27	[illegible] (m)	26.47	707168	168806	0.519701	400.00
28	[illegible]amben	26.66	471921	93071	0.351688	400.00
30	[illegible]-T (m)	27.17	736689	131950	0.530414	400.00
32	[illegible]ob	28.34	490619	155599	0.362557	400.00
33	[illegible]-PE	28.49	321580	93759	0.043498	2000.00
34	[illegible]zon	28.81	95251	28031	0.072886	400.00
36	[illegible]ram	29.41	942920	204892	0.668819	400.00
37	[illegible]MA	29.94	1058714	487823	0.807660	400.00
43	[illegible]fluorfen	31.67	772878	364152	0.587172	400.00

c:\data\2004\0412\8151t\04g4163\8151t066.401 -- Channel A

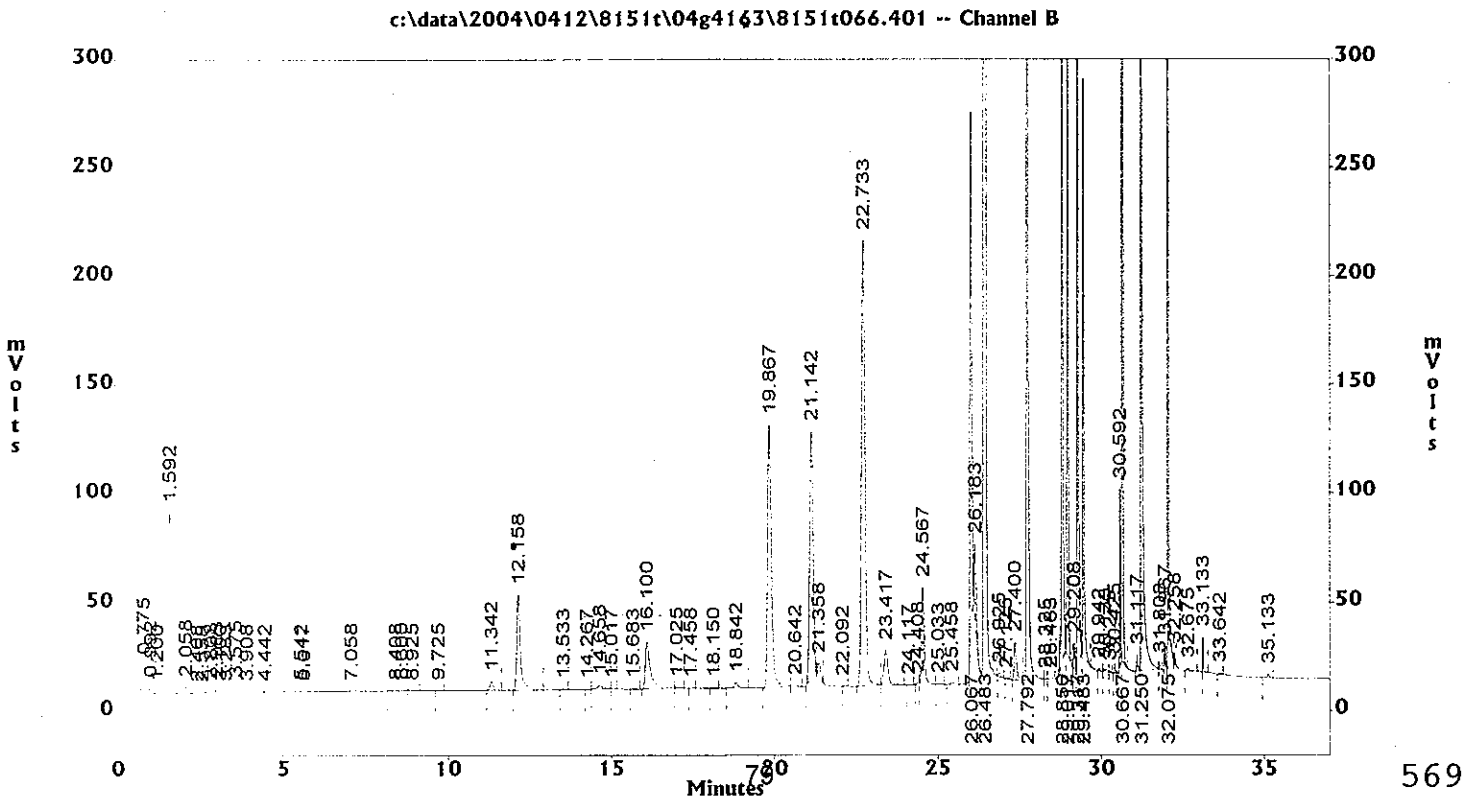


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.401
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 400ppb gc16863
Acquired : Dec 09, 2004 00:10:08
Printed : Dec 09, 2004 14:25:29
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
4	1	Dalapon	1.59	306180	83069	0.126755	400.00
23	2	3,5-Di-Cl-Bz acid	12.16	353449	44102	0.154483	400.00
29	3	4-Nitrophenol	16.10	238675	21595	0.093535	400.00
34	4	DCAA (surr)	19.87	979796	120593	0.088093	2000.00
36	5	Dicamba	21.14	812209	112955	0.335087	400.00
37	6	MCPP (ppm)	21.36	33743	5200	0.206067	40.00
39	7	DBOB (IS)	22.73	1542529	205240	1.000000	250.00
40	8	MCPA (ppm)	23.42	129781	16092	0.839008	40.00
43	9	Dichloroprop	24.57	252374	44399	0.112687	400.00
46	10	2,4-D (m)	26.07	941101	238927	0.077344	2000.00
48	11	Pentachlorphenol	26.48	3765865	873860	1.517652	400.00
52	12	Silvex (m)	27.79	1520632	364769	0.632949	400.00
55	13	2,4,5-T (m)	28.85	1305630	414654	0.485903	400.00
56	14	Dinoseb	29.02	979119	364150	0.398872	400.00
58	15	Chloramben	29.32	1099154	406579	0.429951	400.00
59	16	2,4-DB	29.48	654650	265304	0.050905	2000.00
64	17	Bentazon	30.59	144124	80128	0.064821	400.00
65	18	DCPA	30.67	2012058	1034477	0.845466	400.00
67	19	Picloram	31.25	2033200	846732	0.837348	400.00
70	20	Acifluorfen	32.08	1554470	808217	0.646946	400.00



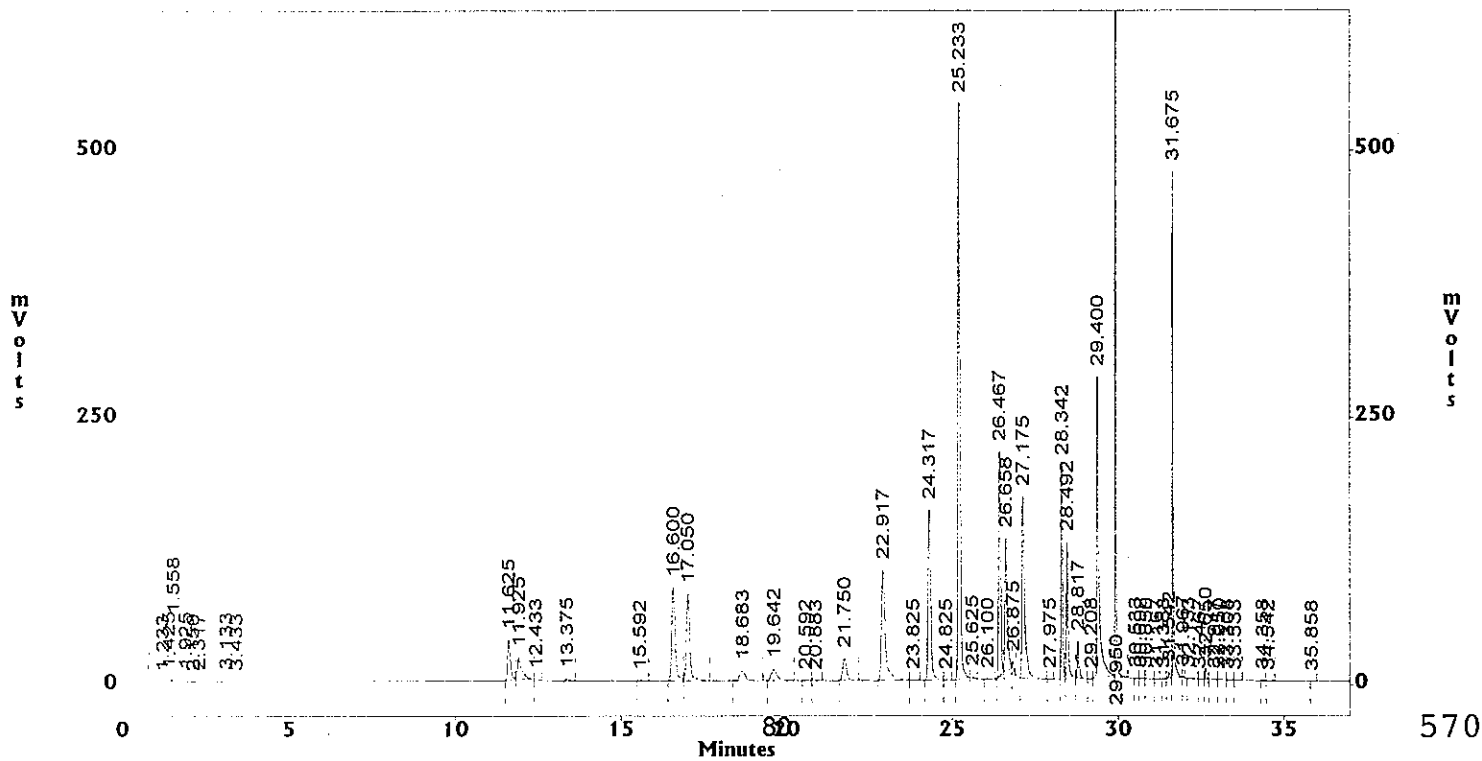
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.501
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 500ppb gc16864
Acquired : Dec 09, 2004 00:50:55
Printed : Dec 09, 2004 14:26:21
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	163986	53255	0.110530	500.00
9	2	3,5-Di-Cl-Bz acid	11.63	218786	38202	0.136279	500.00
10	3	4-Nitrophenol	11.93	179867	20426	0.094227	500.00
14	4	DCAA(Surr)	16.60	629974	87351	0.083946	2500.00
15	5	Dicamba	17.05	574563	81514	0.363944	500.00
16	6	MCPP(ppm)	18.68	104631	9664	1.234255	50.00
17	7	MCPA(PPm)	19.64	122374	10850	1.605409	50.00
20	8	Dichloroprop	21.75	170093	21124	0.107000	500.00
21	9	2,4-D (m)	22.92	850942	104007	0.108981	2500.00
23	10	DBOB (IS)	24.32	904461	159637	1.000000	250.00
25	11	Pentachlorphenol	25.23	2473570	539263	1.468628	500.00
28	12	Silvex (m)	26.47	878914	210520	0.519701	500.00
29	13	Chloramben	26.66	608981	124456	0.351688	500.00
31	14	2,4,5-T (m)	27.17	921947	169571	0.530414	500.00
33	15	Dinoseb	28.34	618665	198529	0.362557	500.00
34	16	2,4-DB	28.49	409608	125679	0.043498	2500.00
35	17	Bentazon	28.82	118681	34718	0.072886	500.00
37	18	Picloram	29.40	1204327	282334	0.668819	500.00
38	19	DCPA	29.95	1315077	622763	0.807660	500.00
45	20	Acifluorfen	31.67	980321	474084	0.587172	500.00

c:\data\2004\0412\8151t\04g4163\8151t066.501 -- Channel A



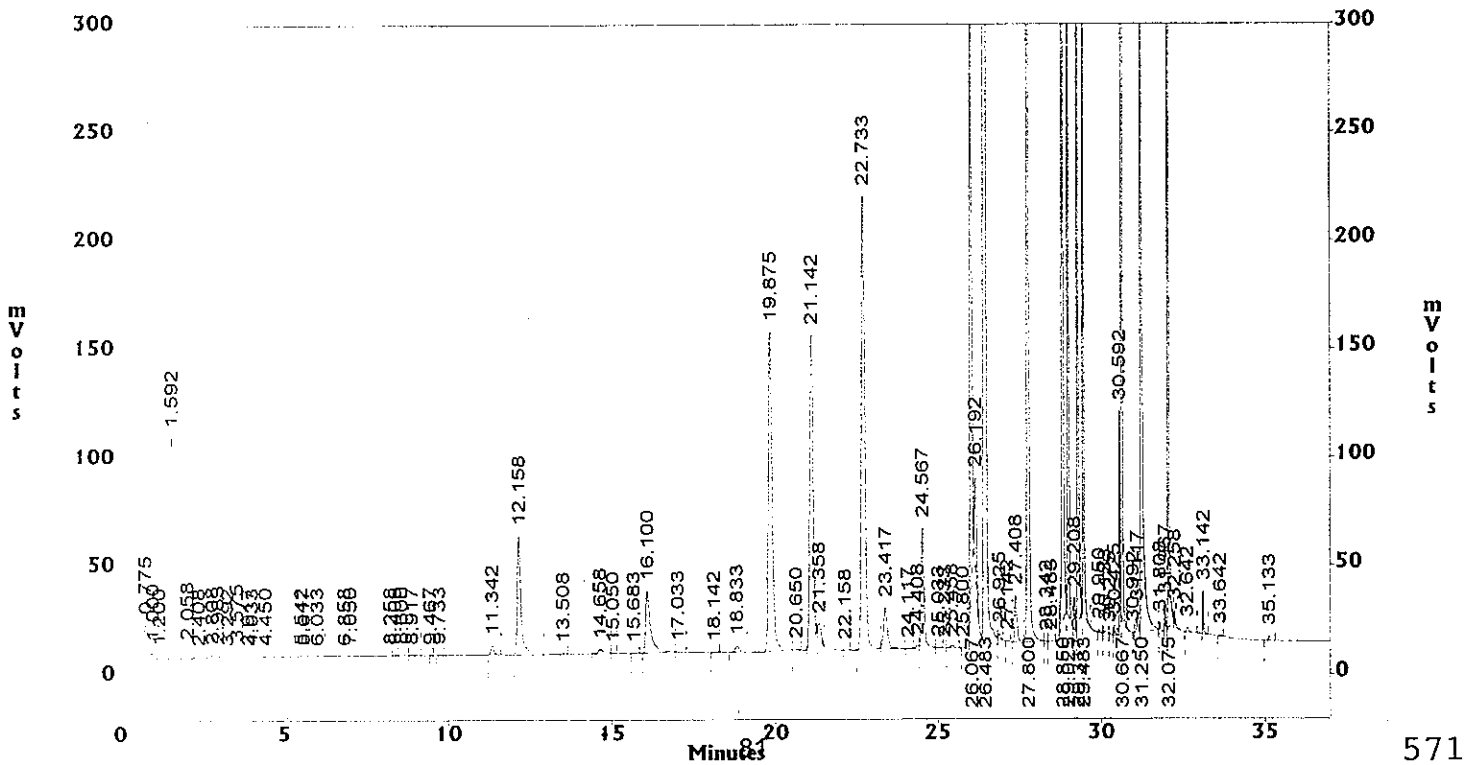
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151t066.501
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 500ppb gc16864
Acquired : Dec 09, 2004 00:50:55
Printed : Dec 09, 2004 14:26:22
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
4	1	Dalapon	1.59	377515	102015	0.126755	500.00
26	2	3,5-Di-Cl-Bz acid	12.16	431086	54615	0.154483	500.00
31	3	4-Nitrophenol	16.10	296703	28341	0.093535	500.00
35	4	DCAA (surr)	19.88	1194947	147101	0.088093	2500.00
37	5	Dicamba	21.14	1012821	140229	0.335087	500.00
38	6	MCPP (ppm)	21.36	39740	6206	0.206067	50.00
40	7	DBOB (IS)	22.73	1564238	209142	1.000000	250.00
41	8	MCPA (ppm)	23.42	149154	18815	0.839008	50.00
44	9	Dichloroprop	24.57	307832	54505	0.112687	500.00
49	10	2,4-D (m)	26.07	1185075	306475	0.077344	2500.00
51	11	Pentachlorphenol	26.48	4690047	1067915	1.517652	500.00
55	12	Silvex (m)	27.80	1874371	466344	0.632949	500.00
58	13	2,4,5-T (m)	28.85	1643353	541864	0.485903	500.00
59	14	Dinoseb	29.02	1224777	457779	0.398872	500.00
61	15	Chloramben	29.32	1384490	520078	0.429951	500.00
62	16	2,4-DB	29.48	825624	341586	0.050905	2500.00
67	17	Bentazon	30.59	177606	98214	0.064821	500.00
68	18	DCPA	30.67	2306129	1057556	0.845466	500.00
71	19	Picloram	31.25	2527415	1053476	0.837348	500.00
74	20	Acifluorfen	32.08	1959156	1045224	0.646946	500.00

c:\data\2004\0412\8151t\04g4163\8151t066.501 -- Channel B



Method : c:\ezchrom\methods\8151-066.t0a * - Replicate Not Used
Printed : Dec 15, 2004 16:27:29
Channel : A
Peak : 6 MCPP(ppm)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0180	0.004	4.51	0.0180							0
2	0.0346	0.008	4.32	0.0346							0
3	0.0422	0.012	3.51	0.0422							0
4	0.0593	0.02	2.96	0.0593							0
5	0.0735	0.032	2.30	0.0735							0
6	0.0873	0.04	2.18	0.0873							0

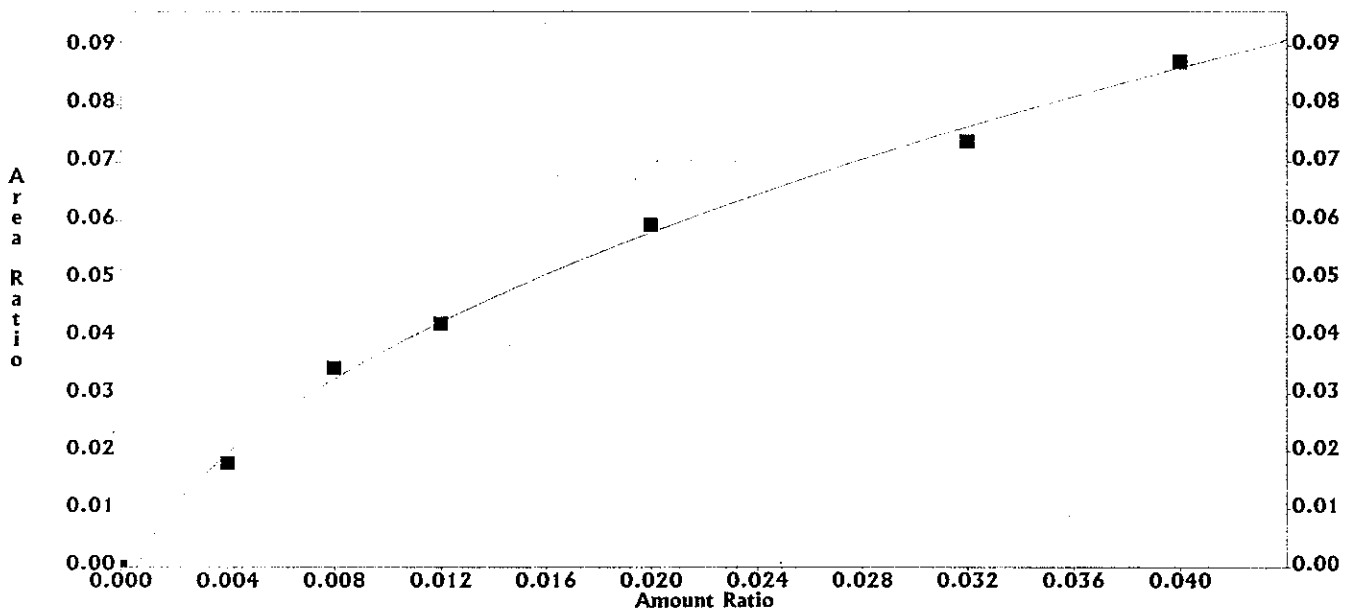
Calib Flag: Replace

Average RF: 3.29747
RF StdDev: 0.990382
RF %RSD: 30.035

RF Definition: Area / Amount
Weighting Method: None
Fit Through Zero: No

Quadratic Fit: Amount = 4.30279 x Area^2 + 0.0848303 x Area + 0.000649777
R^2 = 0.994433

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 7 MCPA(PPm)

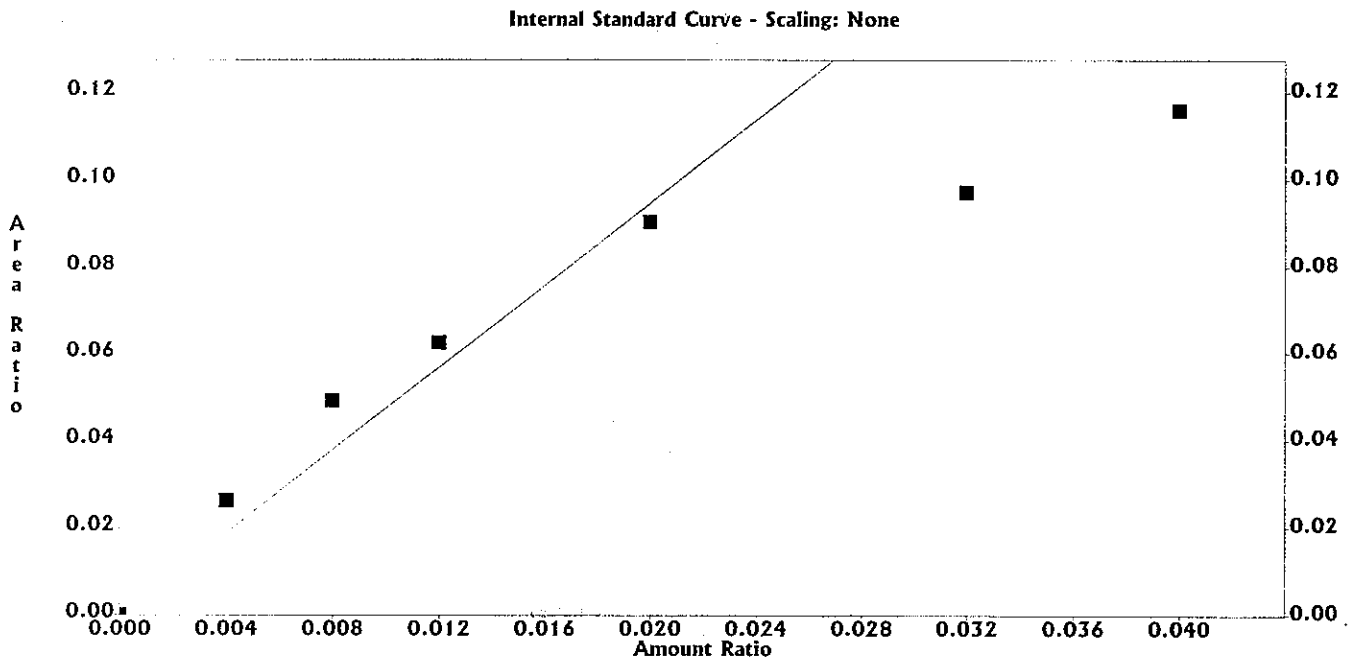
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0263	0.004	6.58	0.0263							0
2	0.0493	0.008	6.16	0.0493							0
3	0.0626	0.012	5.22	0.0626							0
4	0.0904	0.02	4.52	0.0904							0
5	0.0972	0.032	3.04	0.0972							0
6	0.1160	0.04	2.90	0.1160							0

Calib Flag: Replace

Average RF: 4.736
RF StdDev: 1.54539
RF %RSD: 32.631

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 4.736



Method : c:\ezchrom\methods\8151-066.t0a * - Replicate Not Used
Printed : Dec 15, 2004 16:27:30
Channel : A
Peak : 10 DBOB (IS)

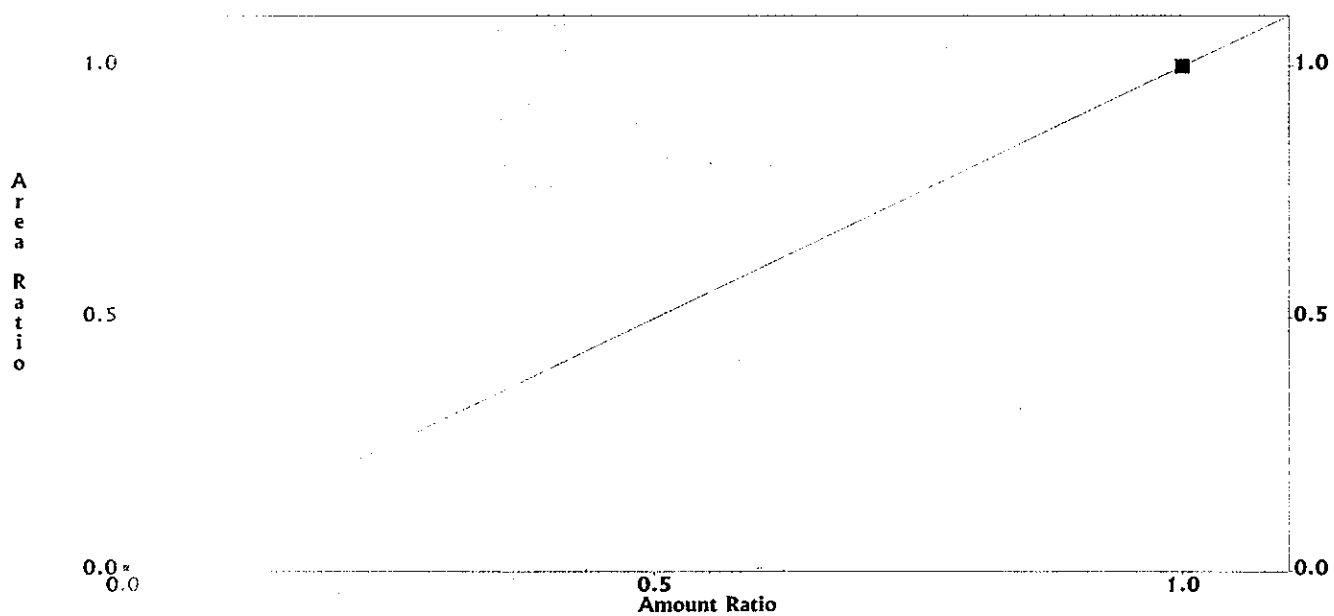
Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.0000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1

Internal Standard Curve - Scaling: None



Method : c:\ezchrom\methods\8151-066.t0a
Printed : Dec 15, 2004 16:27:36
Channel : B
Peak : 6 MCPP (ppm)

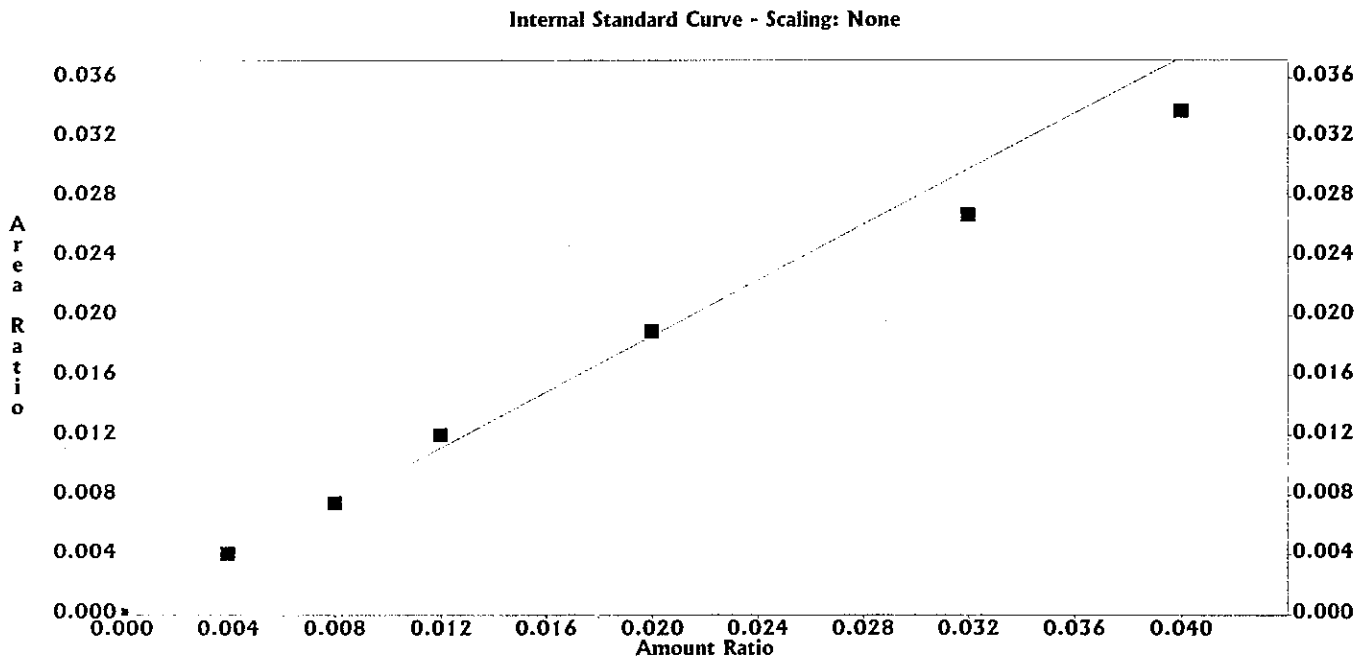
* - Replicate Not Used

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0041	0.004	1.03	0.0041							0
2	0.0075	0.008	0.9392	0.0075							0
3	0.0121	0.012	1.01	0.0121							0
4	0.0190	0.02	0.9509	0.0190							0
5	0.0268	0.032	0.8386	0.0268							0
6	0.0338	0.04	0.8461	0.0338							0

Calib Flag: Replace

Average RF: 0.934563
RF StdDev: 0.0786286
RF %RSD: 8.413

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 0.934563



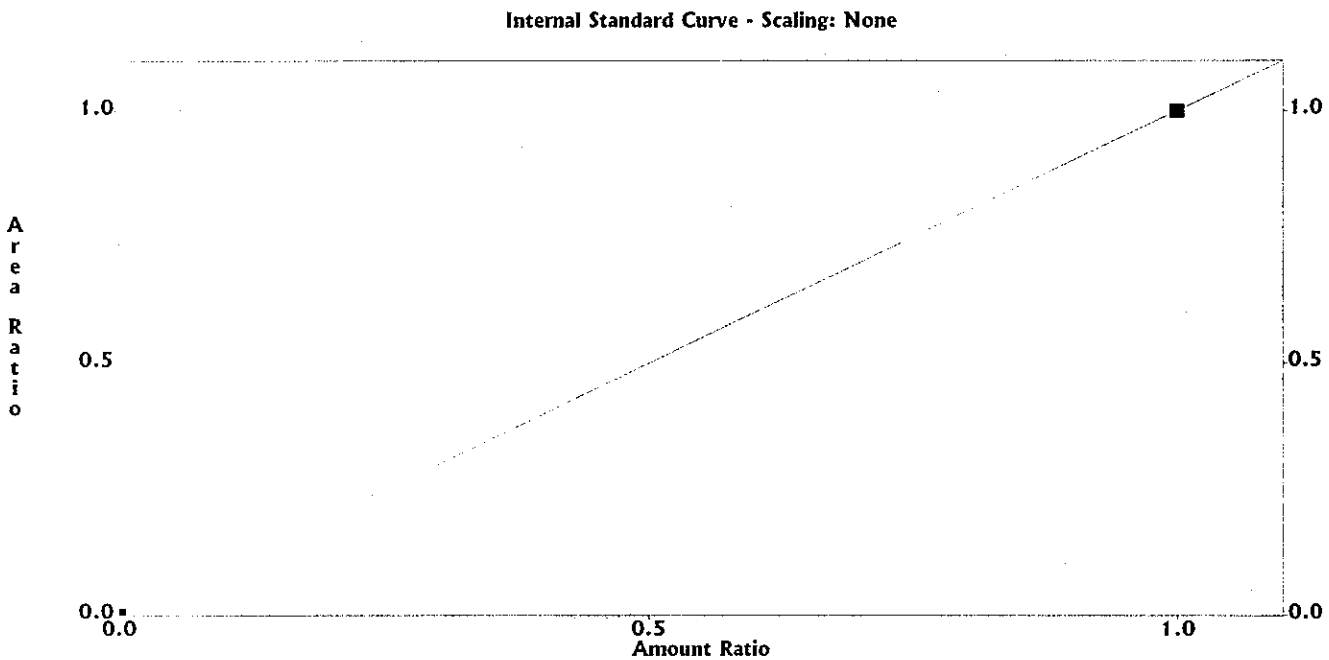
Method : c:\ezchrom\methods\8151-066.t0a * - Replicate Not Used
Printed : Dec 15, 2004 16:27:36
Channel : B
Peak : 7 DBOB (IS)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	1.0000	1	1	1.0000							0
2	1.0000	1	1	1.0000							0
3	1.0000	1	1	1.0000							0
4	1.0000	1	1	1.0000							0
5	1.0000	1	1	1.0000							0
6	1.0000	1	1	1.0000							0

Calib Flag: Replace

Average RF: 1
RF StdDev: 0
RF %RSD: 0.00000000

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1



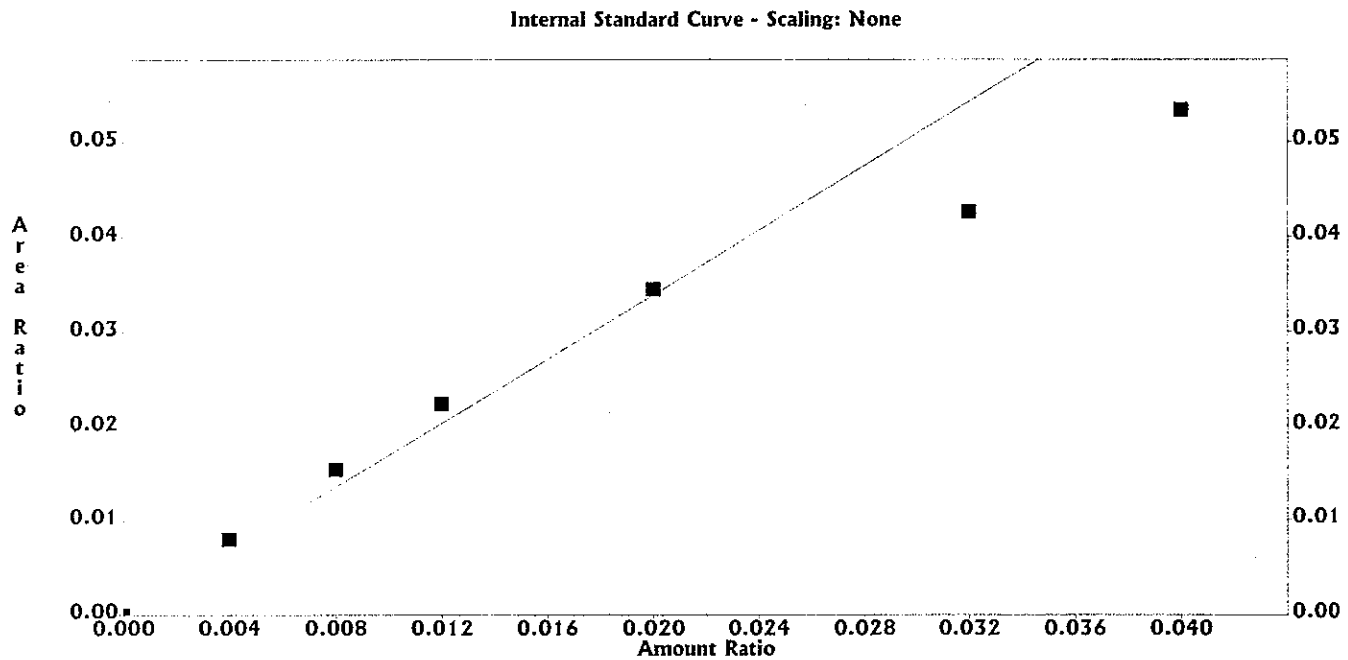
Method : c:\ezchrom\methods\8151-066.t0a * - Replicate Not Used
Printed : Dec 15, 2004 16:27:37
Channel : B
Peak : 8 MCPA (ppm)

Level	Area Ratio	Amount Ratio	RF	Rep Area 1 Ratio	Rep Area 2 Ratio	Rep Area 3 Ratio	Rep Area 4 Ratio	Rep Area 5 Ratio	Replic STD	Replic %RSD	Old Area Ratio
1	0.0079	0.004	1.98	0.0079							0
2	0.0154	0.008	1.93	0.0154							0
3	0.0225	0.012	1.87	0.0225							0
4	0.0345	0.02	1.73	0.0345							0
5	0.0427	0.032	1.33	0.0427							0
6	0.0534	0.04	1.34	0.0534							0

Calib Flag: Replace

Average RF: 1.69704
RF StdDev: 0.293414
RF %RSD: 17.290

RF Definition: Area / Amount
Average RF Fit: Amount = Area / 1.69704



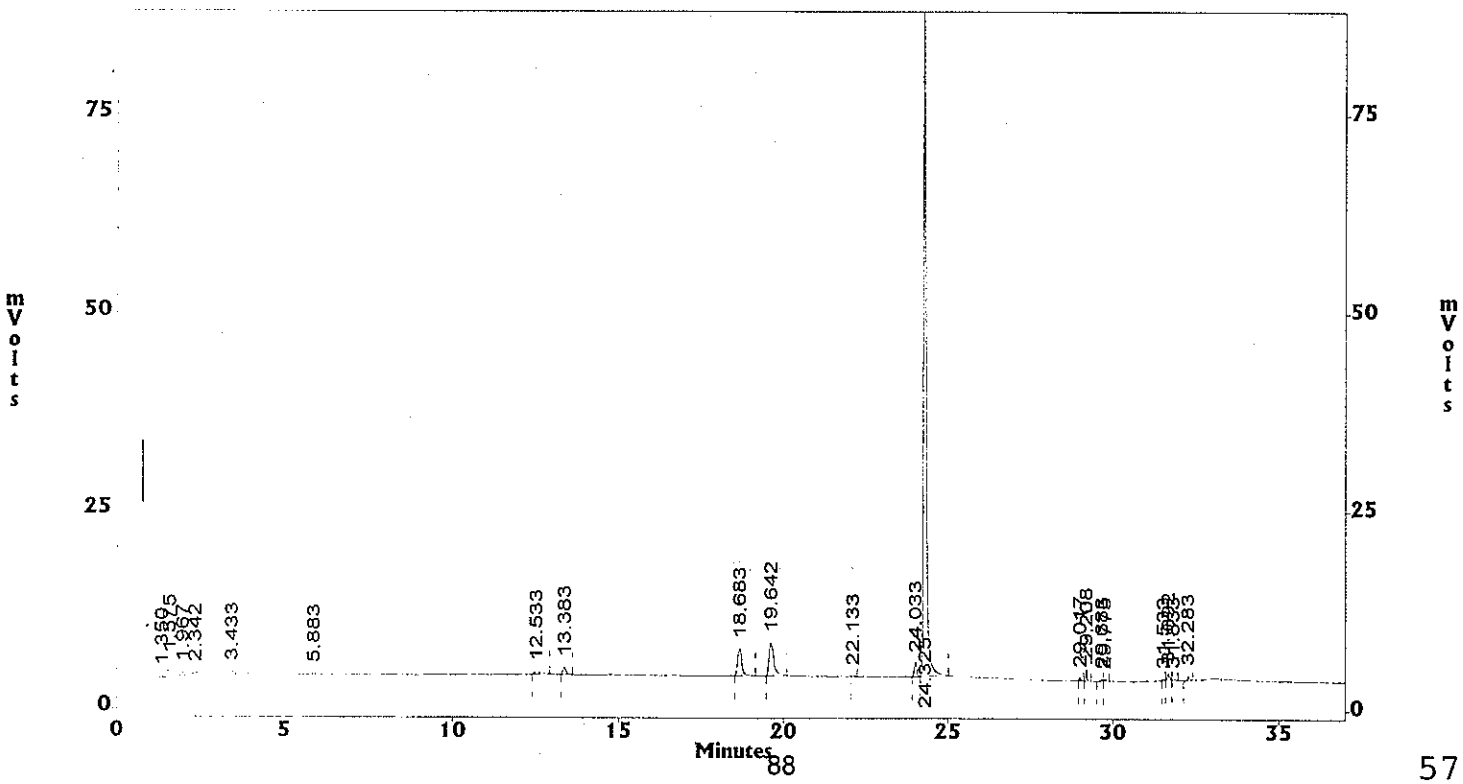
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.icv
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : icv gc17096
Acquired : Dec 08, 2004 21:27:01
Printed : Dec 17, 2004 10:24:26
User : System

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
9	6 MCPP(ppm)	18.68	30393	3399	3.297474	5.95
10	7 MCPA(PPm)	19.64	42904	4163	4.736005	4.78
13	10 DBOB (IS)	24.33	473872	83852	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.icv -- Channel A

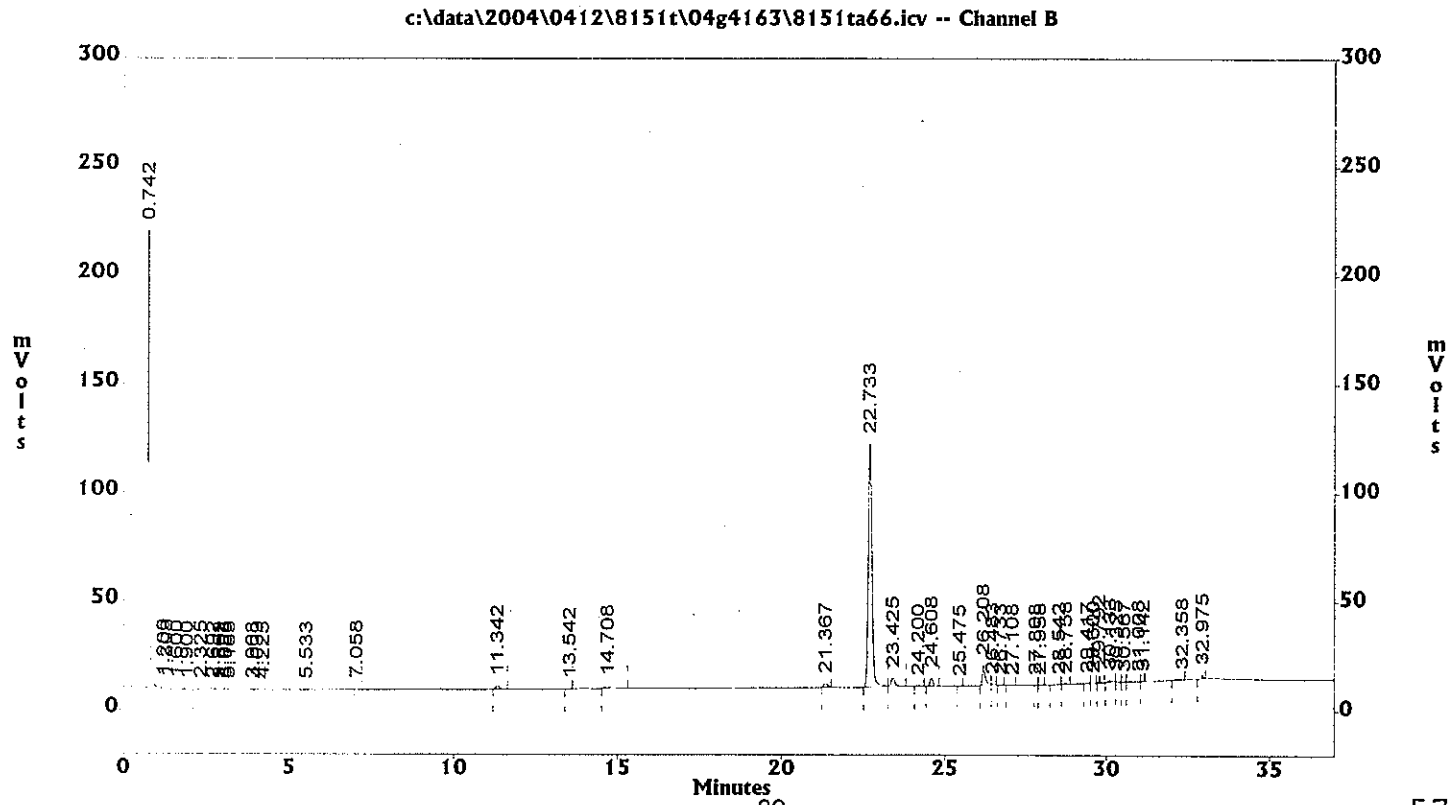


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File :'c:\data\2004\0412\8151t\04g4163\8151ta66.icv
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : icv gcl7096
Acquired : Dec 08, 2004 21:27:01
Printed : Dec 17, 2004 10:24:26
User : System

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
20	6 MCPP (ppm)	21.37	14359	1782	0.934563	4.61
21	7 DBOB (IS)	22.73	869904	111832	1.000000	250.00
22	8 MCPA (ppm)	23.42	30328	3853	1.697035	5.14



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\8151ta66.icv
ID: icv gc17096 -- Dec 08, 2004 21:27:01
Printed: Dec 17, 2004 10:25:46

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	5.948	18.953	15.000	Failed
7 MCPA(PPm)	5.000	4.779	4.414	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.611	7.778	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	5.136	2.719	15.000	Passed

Signature _____

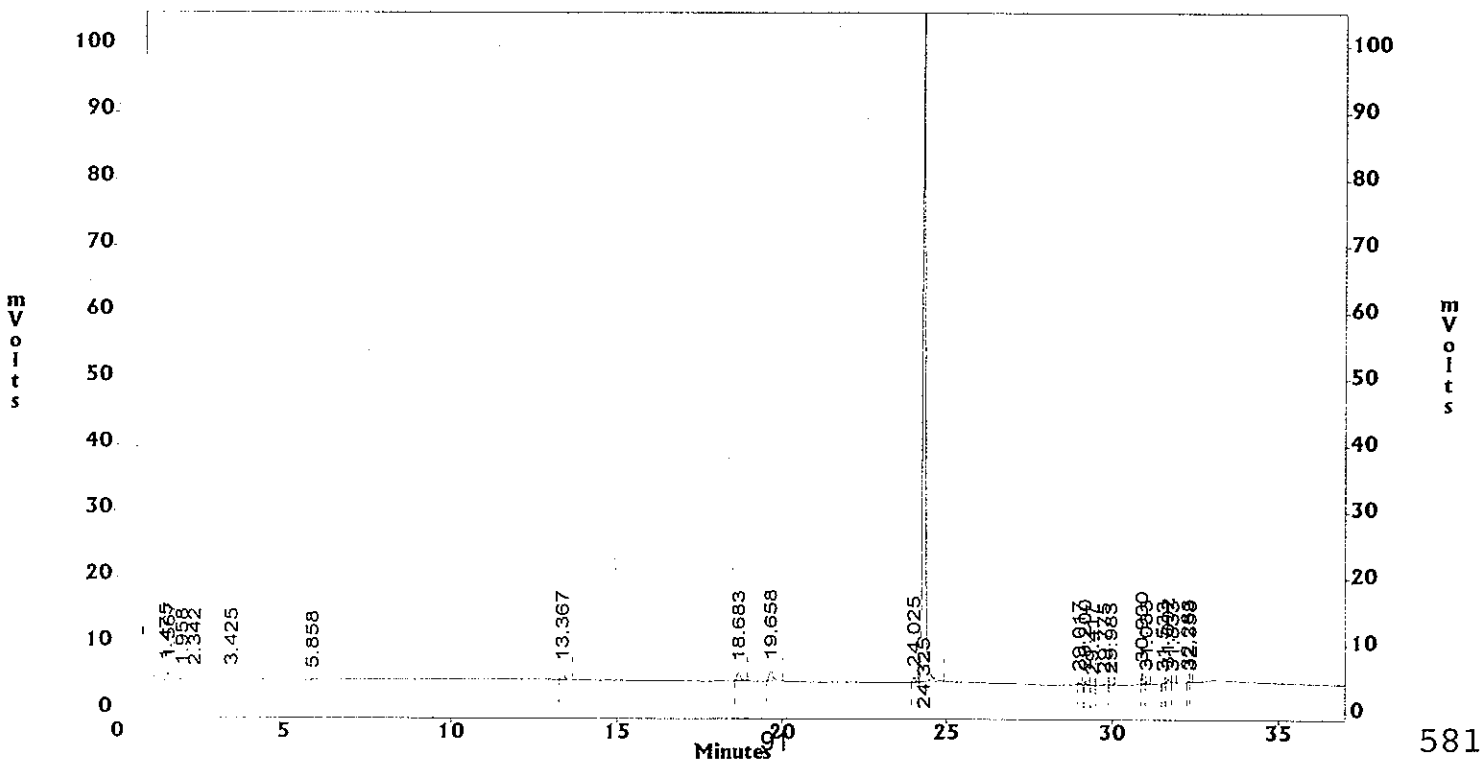
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p01
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 1ppm gc17095
Acquired : Dec 08, 2004 16:01:10
Printed : Dec 15, 2004 16:29:09
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
8	6 MCPP(ppm)	18.68	10038	1316	3.297474	1.00
9	7 MCPA(PPm)	19.66	14656	1583	4.736005	1.00
11	10 DBOB (IS)	24.33	556996	100638	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p01 -- Channel A

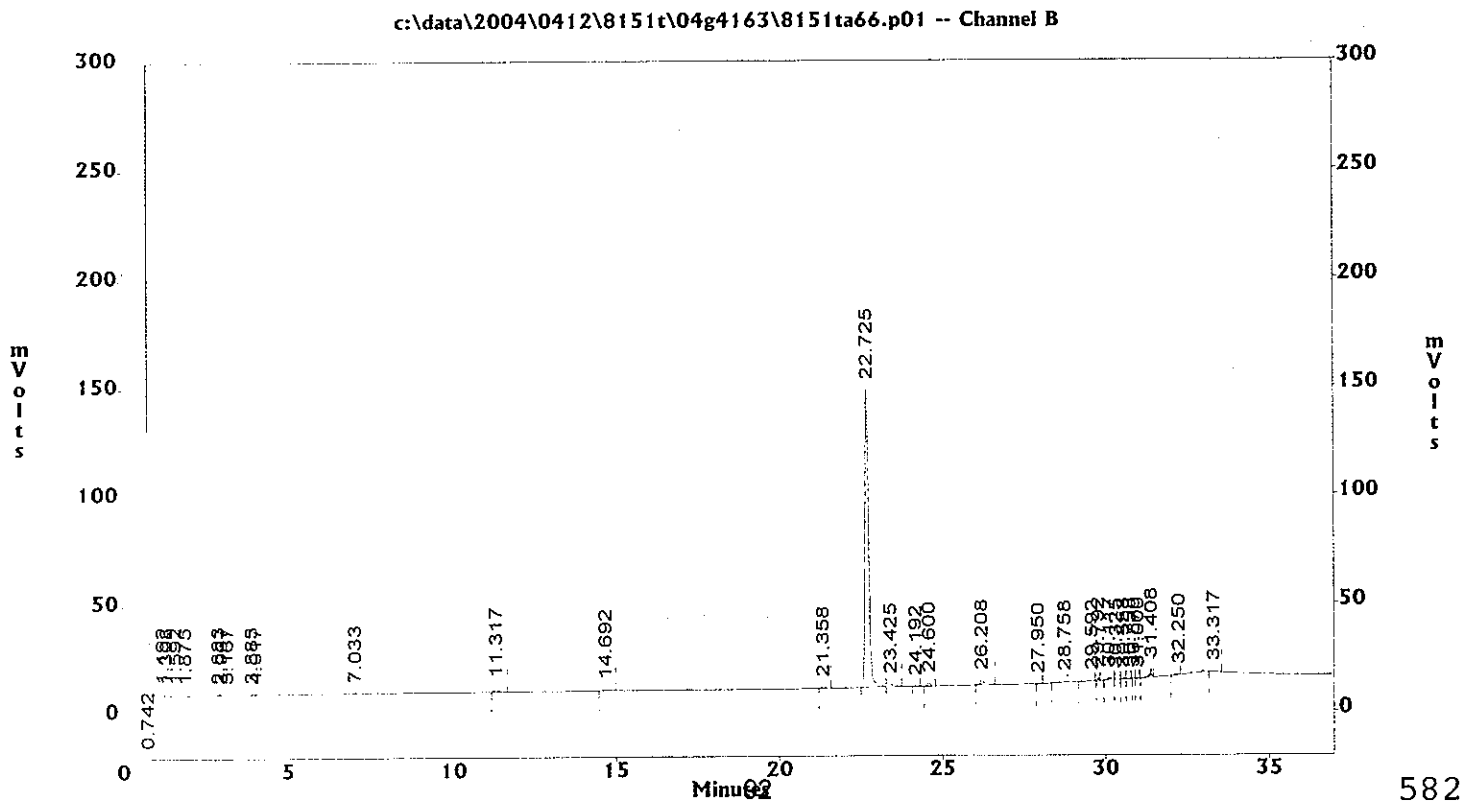


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p01
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 1ppm gc17095
Acquired : Dec 08, 2004 16:01:10
Printed : Dec 15, 2004 16:29:10
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
14	6 MCPP (ppm)	21.36	4417	510	0.934563	1.00
15	7 DBOB (IS)	22.73	1075308	137421	1.000000	250.00
16	8 MCPA (ppm)	23.42	8532	1144	1.697036	1.00



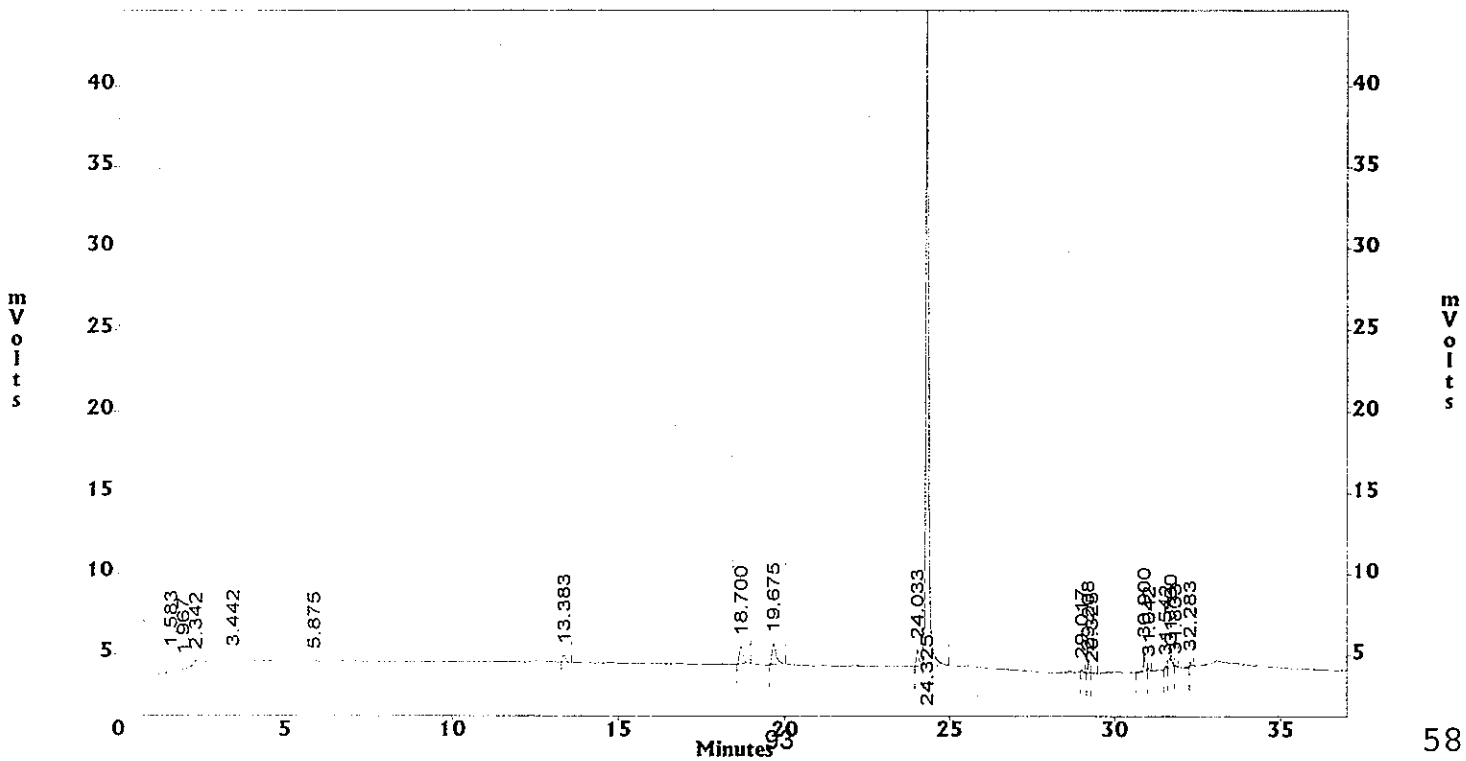
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 2ppm gc17094
Acquired : Dec 08, 2004 16:41:56
Printed : Dec 15, 2004 16:32:01
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
7	6 MCPP(ppm)	18.70	8091	1061	3.297474	2.00
8	7 MCPA(PPm)	19.67	11532	1280	4.736005	2.00
10	10 DBOB (IS)	24.33	234101	40342	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p02 -- Channel A

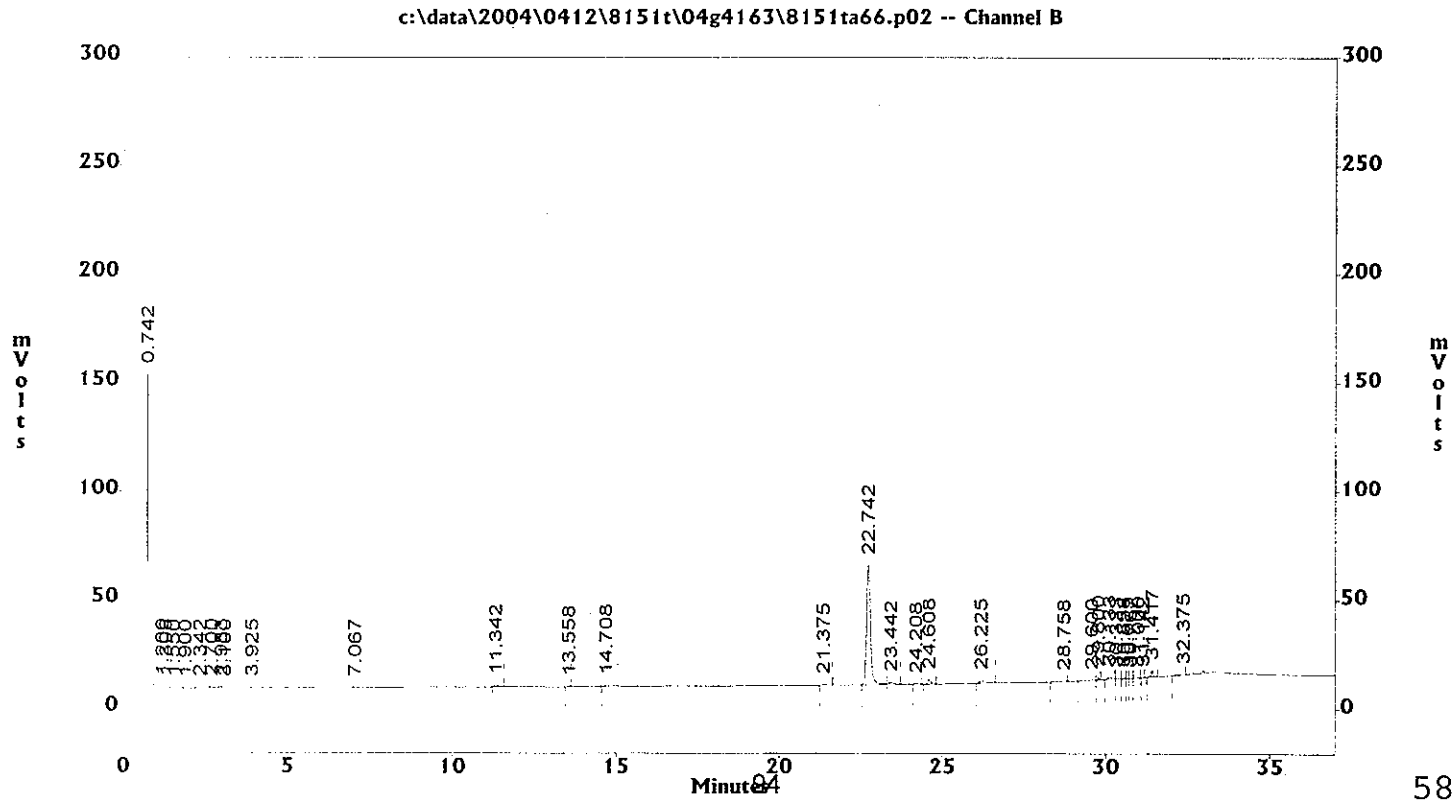


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 2ppm gcl7094
Acquired : Dec 08, 2004 16:41:56
Printed : Dec 15, 2004 16:32:02
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
15	6 MCPP (ppm)	21.38	3347	400	0.934563	2.00
16	7 DBOB (IS)	22.74	445470	55029	1.000000	250.00
17	8 MCPA (ppm)	23.44	6879	920	1.697036	2.00



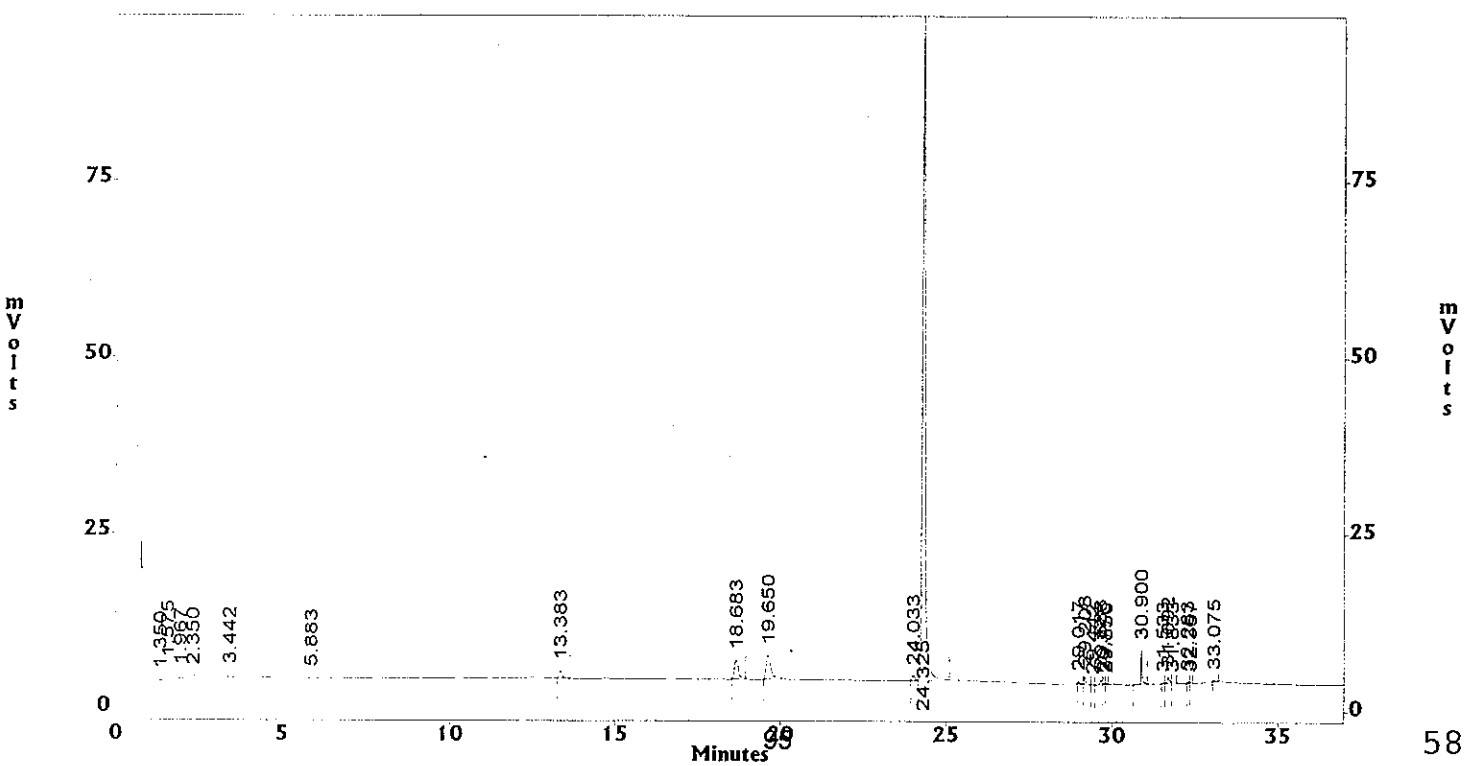
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p03
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 3ppm gc17093
Acquired : Dec 08, 2004 18:44:01
Printed : Dec 15, 2004 16:32:38
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
8	6 MCPP(ppm)	18.68	22134	2688	3.297474	3.00
9	7 MCPA(PPm)	19.65	32876	3416	4.736005	3.00
11	10 DBOB (IS)	24.33	524905	94084	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p03 -- Channel A

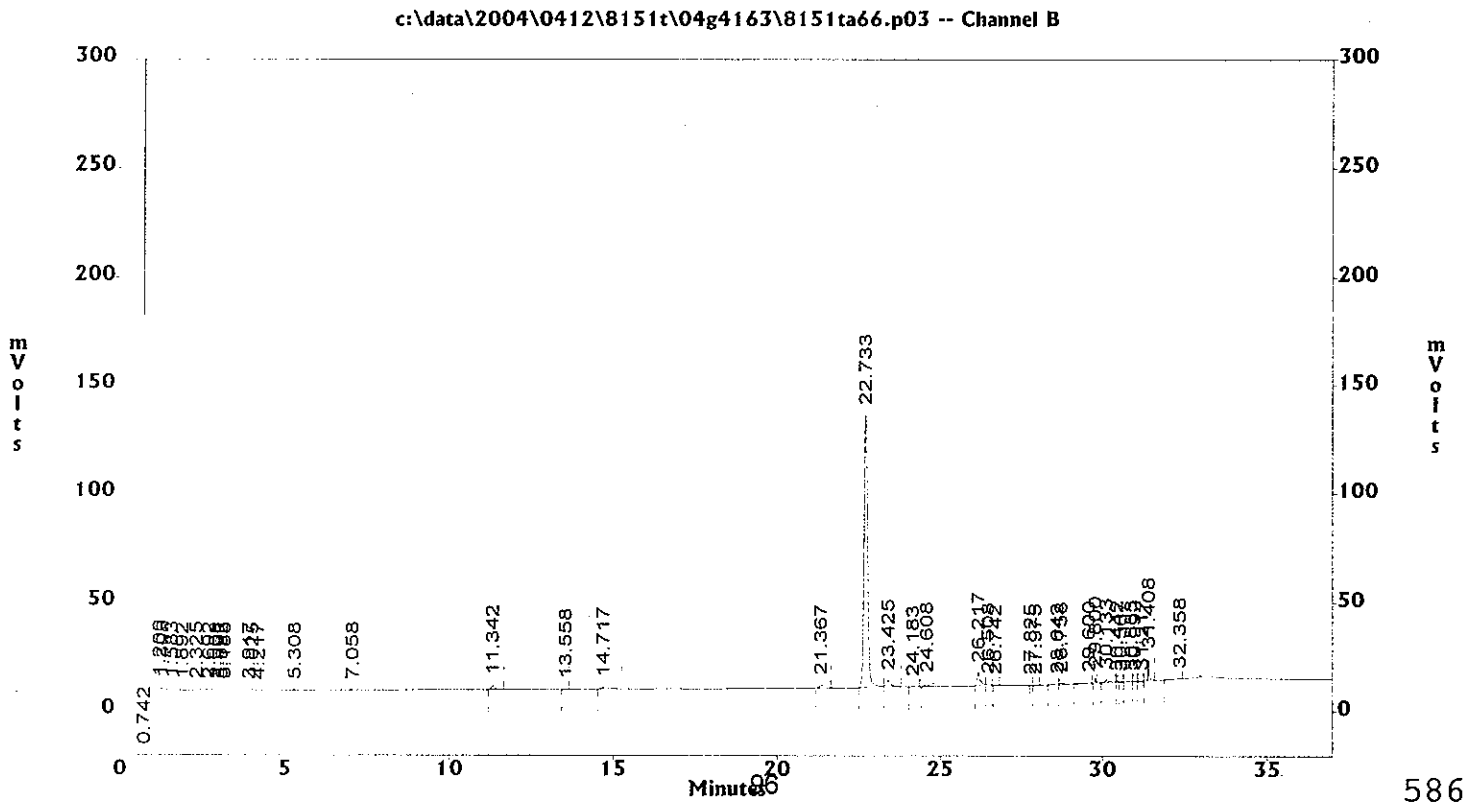


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p03
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 3ppm gc17093
Acquired : Dec 08, 2004 18:44:01
Printed : Dec 15, 2004 16:32:38
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
20	6 MCPP (ppm)	21.37	11814	1350	0.934563	3.00
21	7 DBOB (IS)	22.73	978902	125509	1.000000	250.00
22	8 MCPA (ppm)	23.42	21992	2848	1.697036	3.00



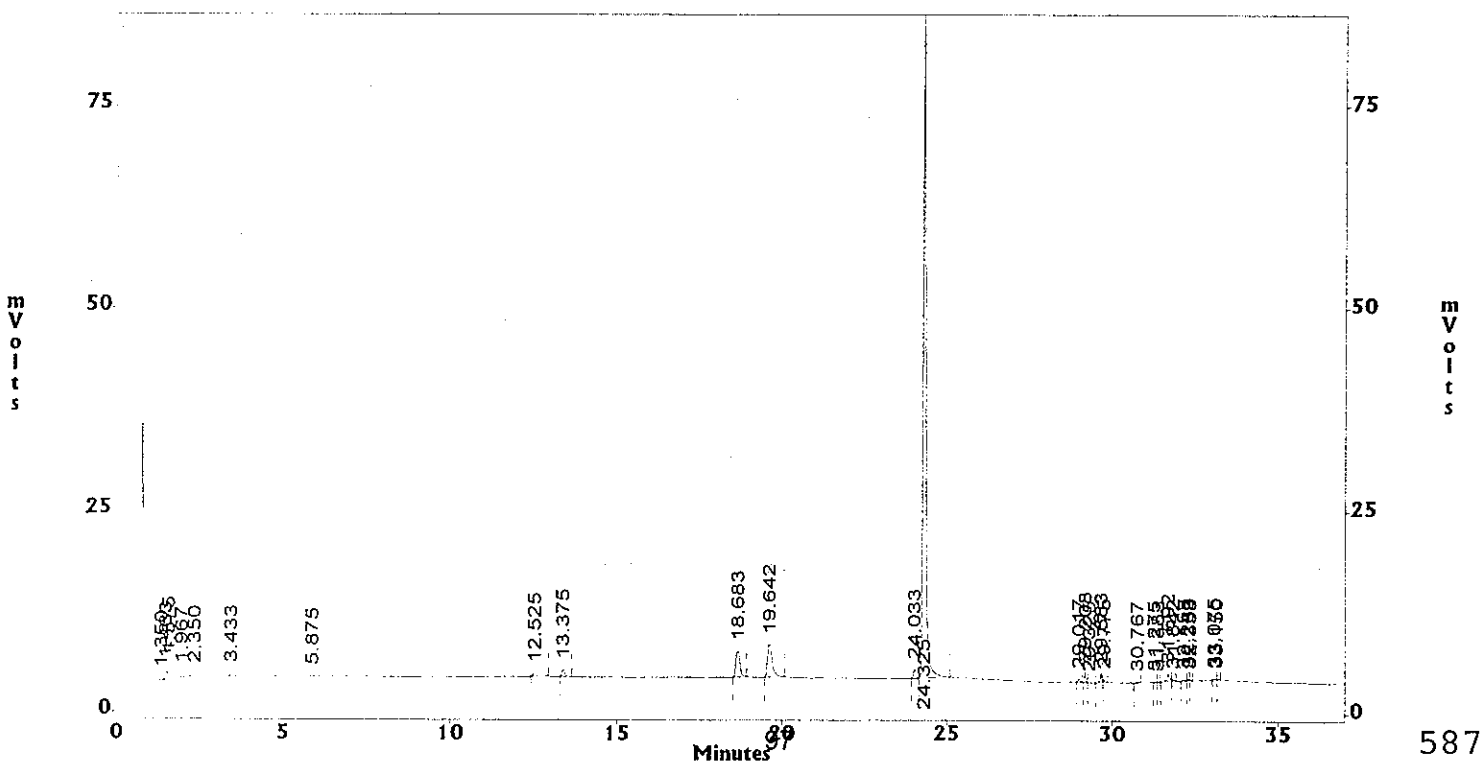
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p05
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17096
Acquired : Dec 08, 2004 19:24:46
Printed : Dec 15, 2004 16:33:57
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
10	6 MCPP(ppm)	18.68	27201	3220	3.297474	5.00
11	7 MCPA(PPm)	19.64	41483	4075	4.736005	5.00
13	10 DBOB (IS)	24.33	458795	82053	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p05 -- Channel A

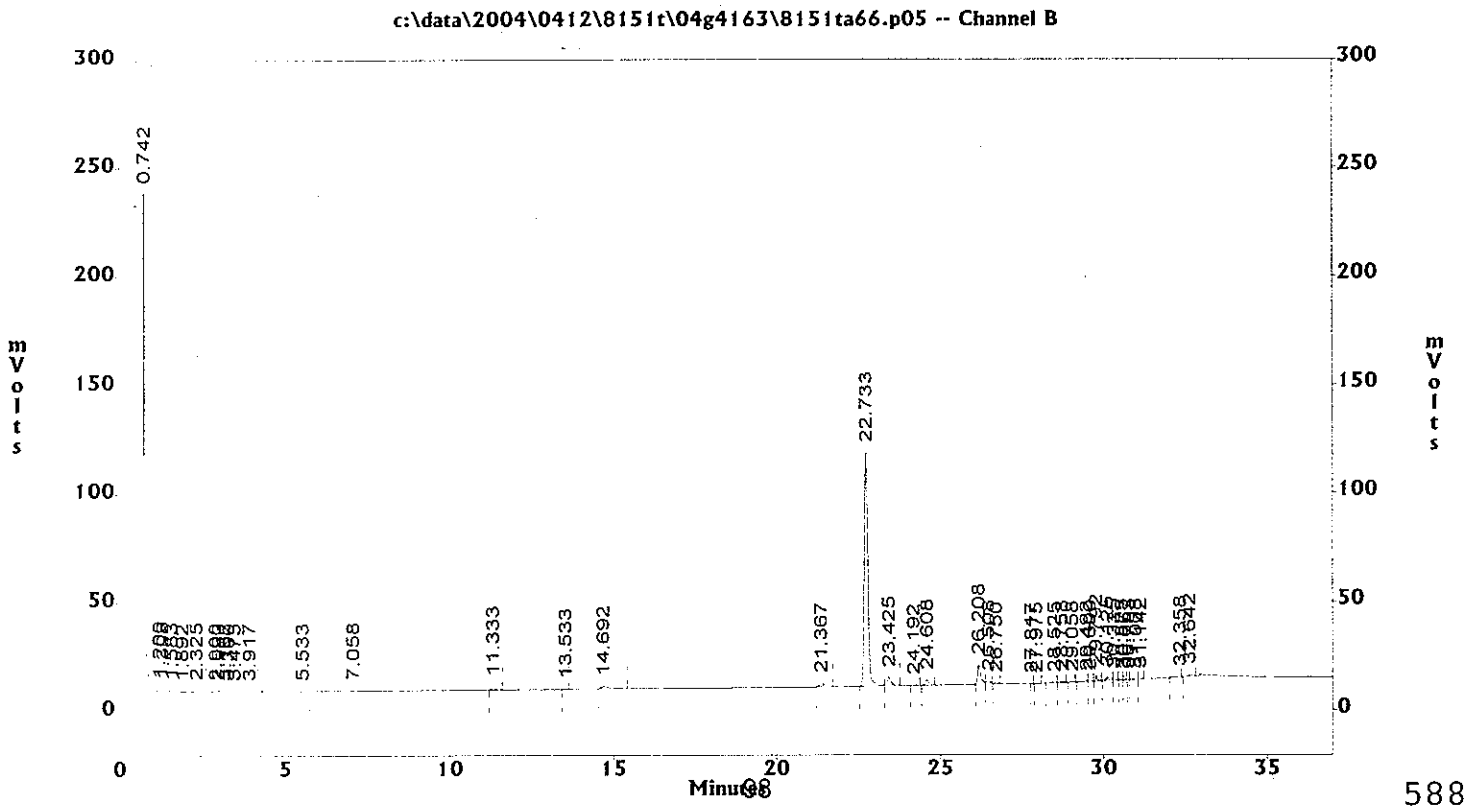


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p05
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17096
Acquired : Dec 08, 2004 19:24:46
Printed : Dec 15, 2004 16:33:58
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
18	6 MCPP (ppm)	21.37	15983	1825	0.934563	5.00
19	7 DBOB (IS)	22.73	840450	107681	1.000000	250.00
20	8 MCPA (ppm)	23.42	29021	3683	1.697036	5.00



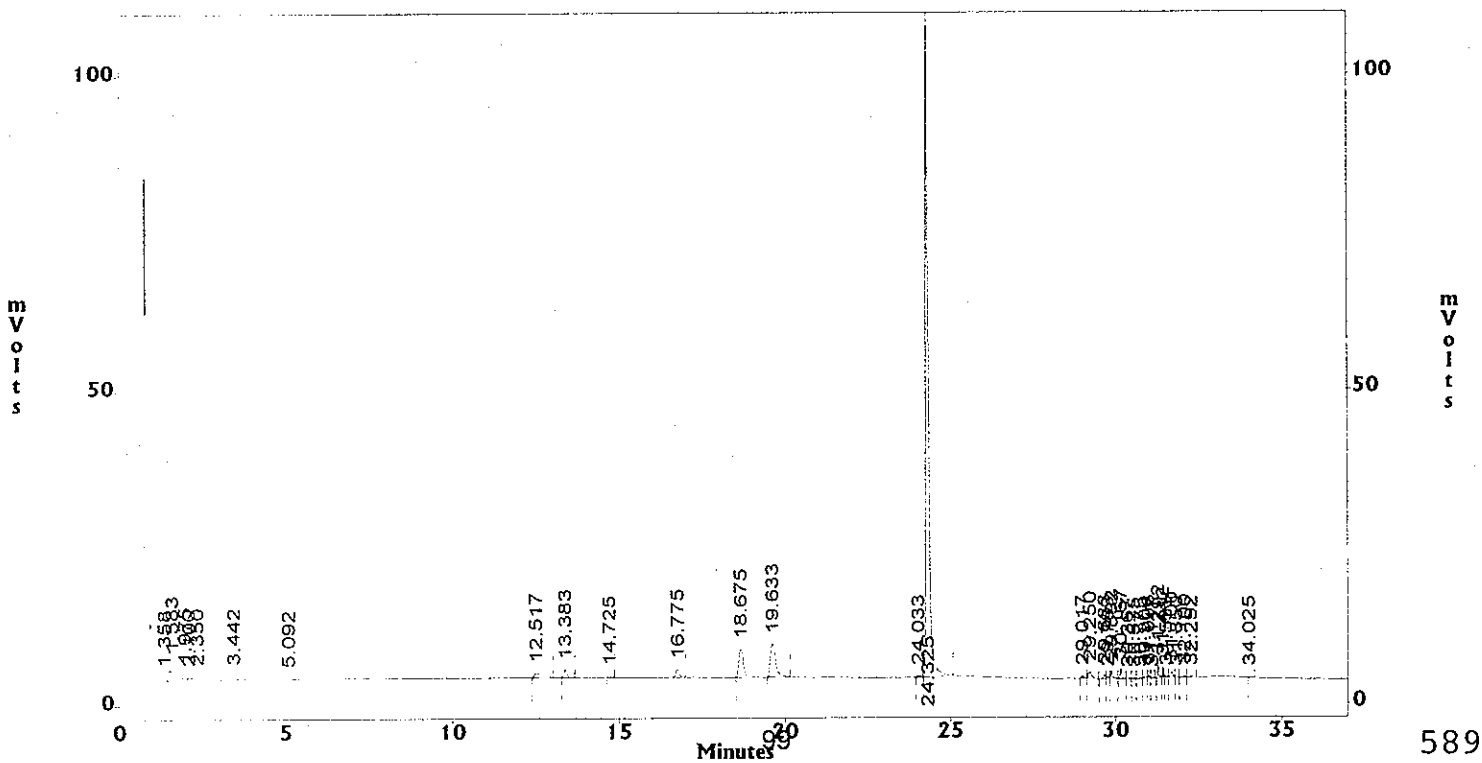
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p08
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 8ppm gc17091
Acquired : Dec 08, 2004 20:05:32
Printed : Dec 15, 2004 16:34:51
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
12	6 MCPP(ppm)	18.67	44202	4505	3.297474	8.00
13	7 MCPA(PPm)	19.63	58473	5270	4.736005	8.00
15	10 DBOB (IS)	24.33	601268	105522	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p08 -- Channel A

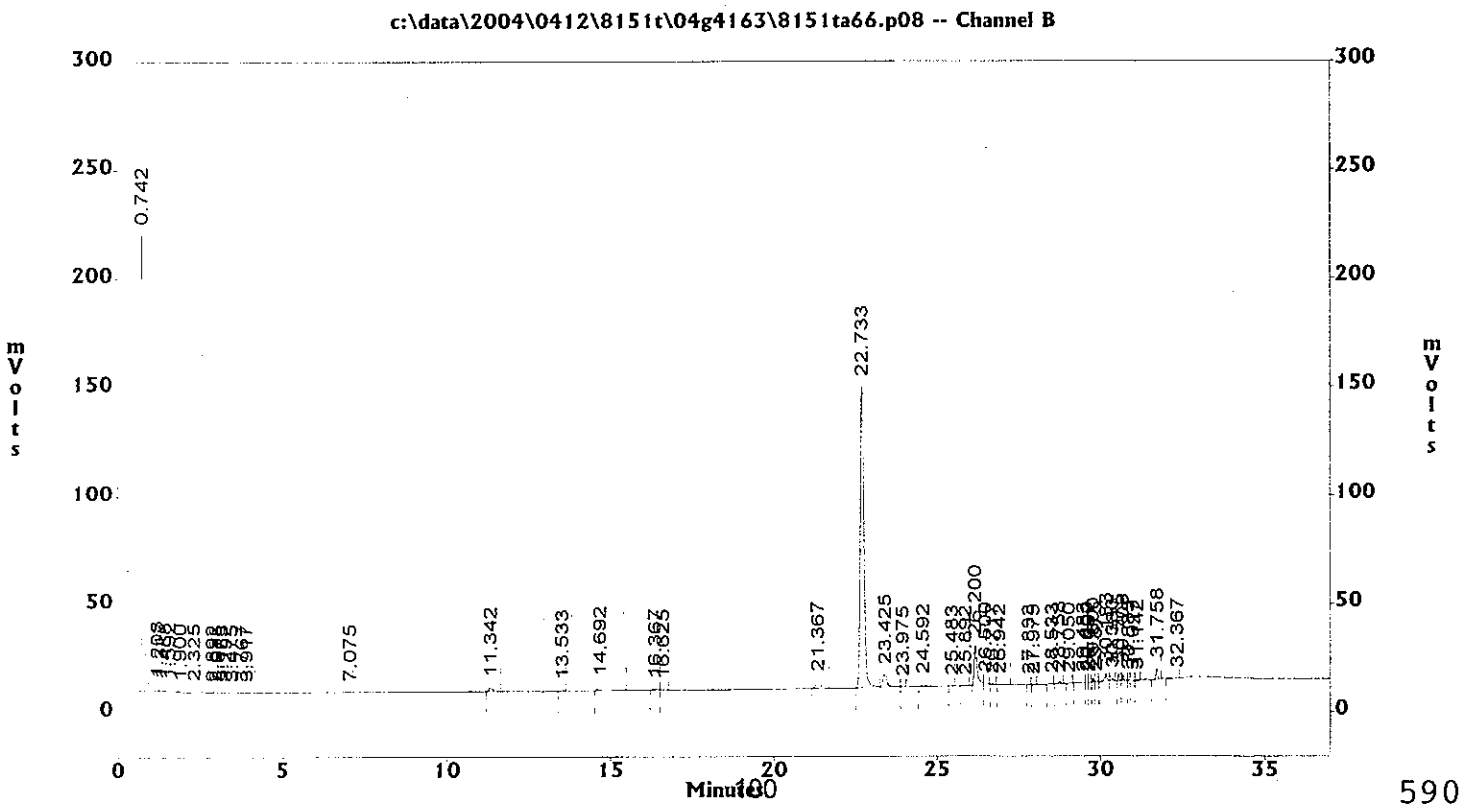


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p08
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 8ppm gc17091
Acquired : Dec 08, 2004 20:05:32
Printed : Dec 15, 2004 16:34:52
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
22	6 MCPP (ppm)	21.37	28830	3149	0.934563	8.00
23	7 DBOB (IS)	22.73	1074373	138981	1.000000	250.00
24	8 MCPA (ppm)	23.42	45858	5595	1.697036	8.00



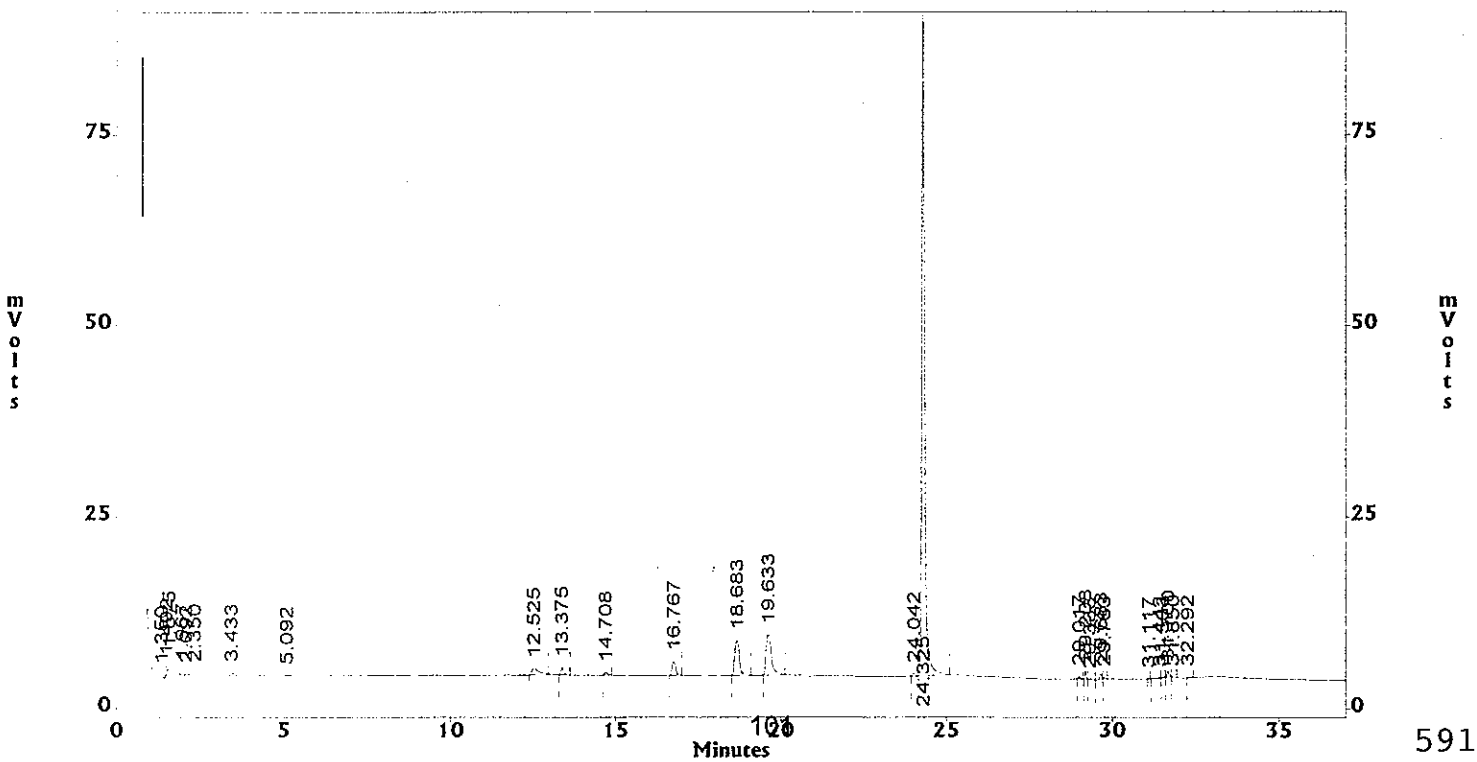
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p10
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 10ppm gc17090
Acquired : Dec 08, 2004 20:46:16
Printed : Dec 15, 2004 16:35:44
User : Connie Chen

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
13	6 MCPP(ppm)	18.68	44318	4555	3.297474	10.00
14	7 MCPA(PPm)	19.63	58882	5263	4.736005	10.00
16	10 DBOB (IS)	24.33	507425	86778	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\8151ta66.p10 -- Channel A

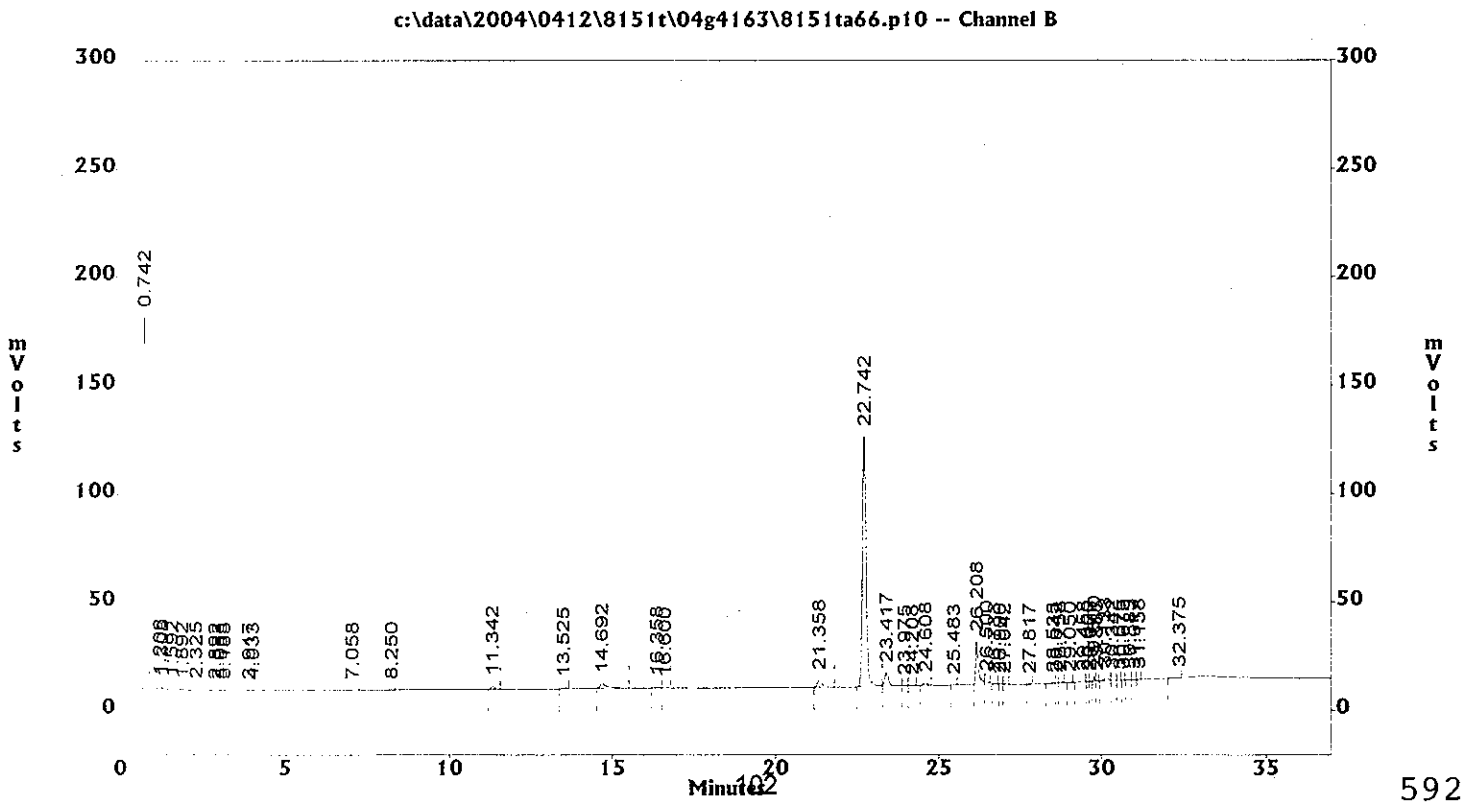


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\8151ta66.p10
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 10ppm gc17090
Acquired : Dec 08, 2004 20:46:16
Printed : Dec 15, 2004 16:35:44
User : Connie Chen

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
20	6 MCPP (ppm)	21.36	30118	3235	0.934563	10.00
21	7 DBOB (IS)	22.74	889866	115567	1.000000	250.00
22	8 MCPA (ppm)	23.42	47547	5775	1.697036	10.00



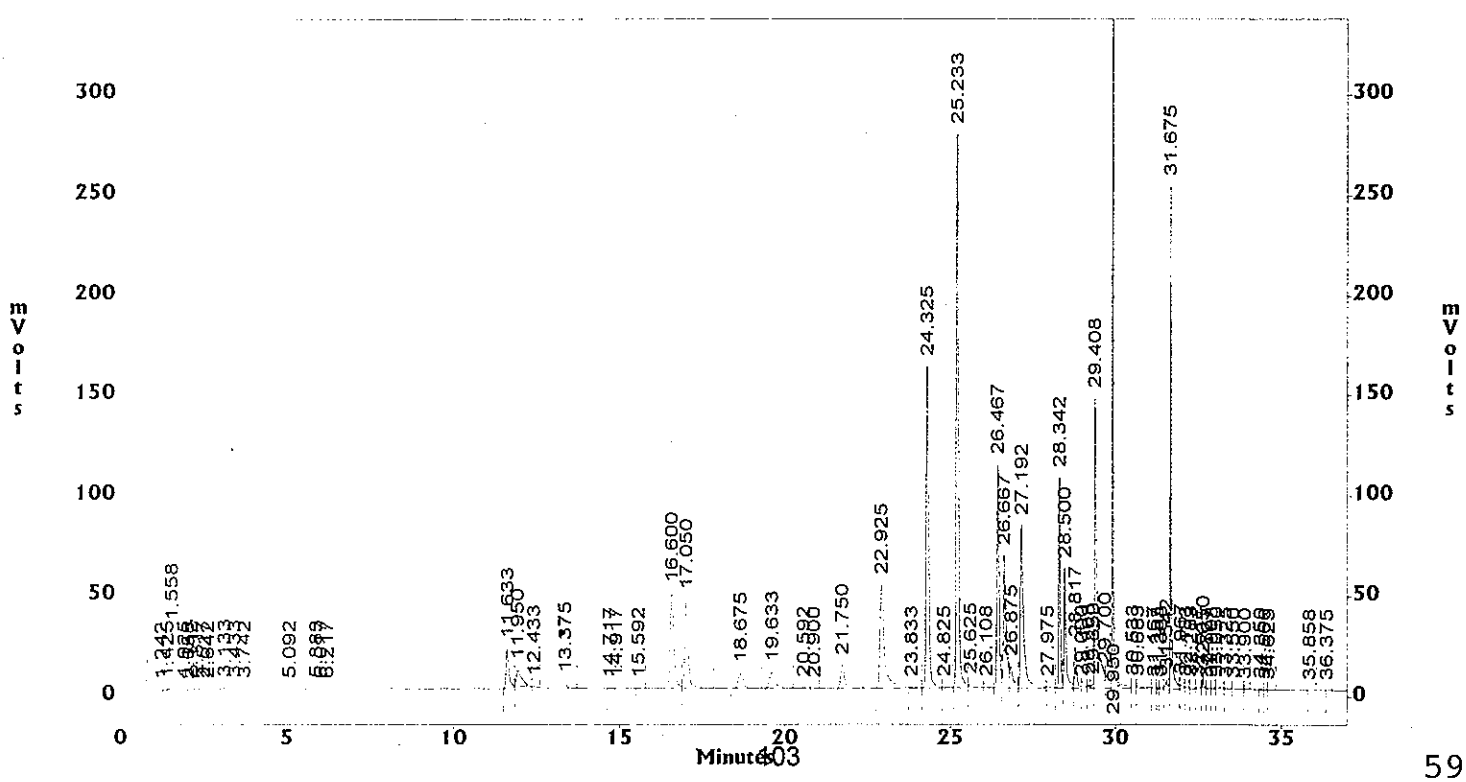
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : ##04g4163,w gc16862
Acquired : Dec 09, 2004 02:12:22
Printed : Dec 10, 2004 09:52:54
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
3	1	Dalapon	1.56	89297	28933	0.101430	247.96
17	2	3,5-Di-Cl-Bz acid	11.63	118090	19380	0.136961	242.84
18	3	4-Nitrophenol	11.95	87808	8238	0.099783	247.85
24	4	DCAA(Surr)	16.60	356913	47230	0.083432	1204.86
25	5	Dicamba	17.05	318278	43903	0.361668	247.86
26	6	MCPP(ppm)	18.67	79752	7287	1.228394	29.43
27	7	MCPA(PPm)	19.63	96612	8021	1.598133	29.22
30	8	Dichloroprop	21.75	97889	11611	0.106317	259.32
31	9	2,4-D (m)	22.92	494053	51653	0.110653	1257.52
33	10	DBOB (IS)	24.33	887637	160274	1.000000	250.00
35	11	Pentachlorphenol	25.23	1310672	276181	1.476711	249.98
38	12	Silvex (m)	26.47	497166	110930	0.554810	252.38
39	13	Chloramben	26.67	407682	65919	0.461232	248.95
41	14	2,4,5-T (m)	27.19	539395	80858	0.596850	254.53
43	15	Dinoseb	28.34	342190	104688	0.378307	254.76
44	16	2,4-DB	28.50	248165	59607	0.053067	1317.09
45	17	Bentazon	28.82	84954	20426	0.101517	269.44
49	18	Picloram	29.41	732470	144287	0.733773	281.15
51	19	DCPA	29.95	791048	333804	0.869976	256.09
58	20	Acifluorfen	31.67	560475	250600	0.609087	259.17

c:\data\2004\0412\8151t\04g4163\4163g.q01 -- Channel A

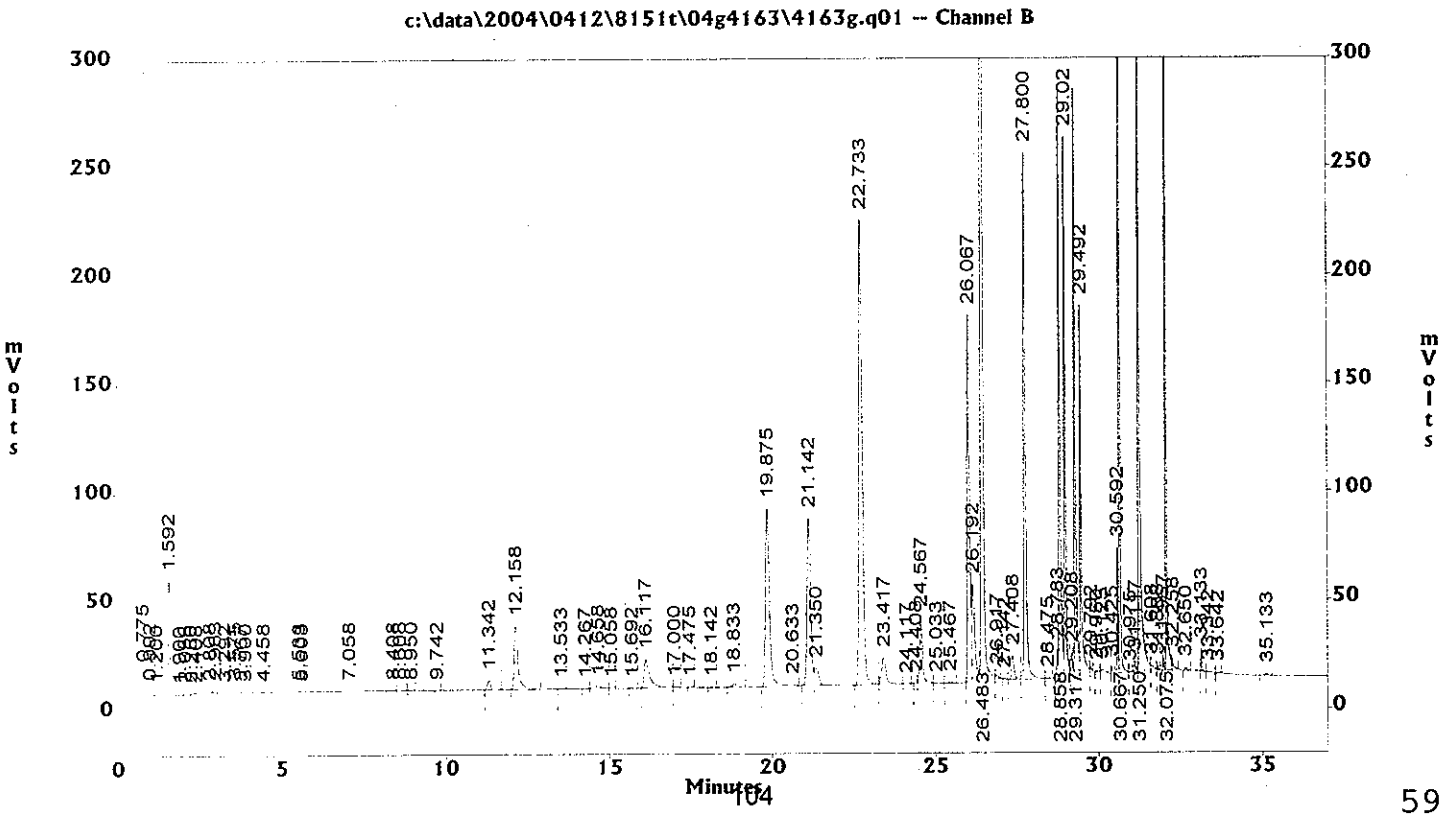


Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q01
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : ##04g4163,w gc16862
Acquired : Dec 09, 2004 02:12:22
Printed : Dec 10, 2004 09:52:55
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
4	1	Dalapon	1.59	192372	52252	0.126755	235.26
24	2	3,5-Di-Cl-Bz acid	12.16	241401	28773	0.154483	242.23
30	3	4-Nitrophenol	16.12	159724	13100	0.093535	264.71
35	4	DCAA (surr)	19.88	678060	81726	0.088093	1193.18
37	5	Dicamba	21.14	592297	76985	0.371609	247.08
38	6	MCPP (ppm)	21.35	70588	7929	0.511087	27.13
39	7	DBOB (IS)	22.73	1612729	214527	1.000000	250.00
40	8	MCPA (ppm)	23.42	101678	12135	0.839008	26.17
43	9	Dichloroprop	24.57	174080	29880	0.113524	237.71
46	10	2,4-D (m)	26.07	775681	168507	0.094967	1266.17
48	11	Pentachlorphenol	26.48	2460445	573468	1.572894	242.49
52	12	Silvex (m)	27.80	1018812	242790	0.632949	249.52
55	13	2,4,5-T (m)	28.86	883107	269325	0.557553	245.53
56	14	Dinoseb	29.02	720079	247354	0.471303	236.84
58	15	Chloramben	29.32	804980	268571	0.478771	260.64
59	16	2,4-DB	29.49	486686	168317	0.067091	1124.50
64	17	Bentazon	30.59	112135	57726	0.071389	243.49
65	18	DCPA	30.67	1394646	688929	0.864605	250.05
68	19	Picloram	31.25	1566925	600266	0.849758	285.85
72	20	Acifluorfen	32.08	1083485	552562	0.656098	256.00



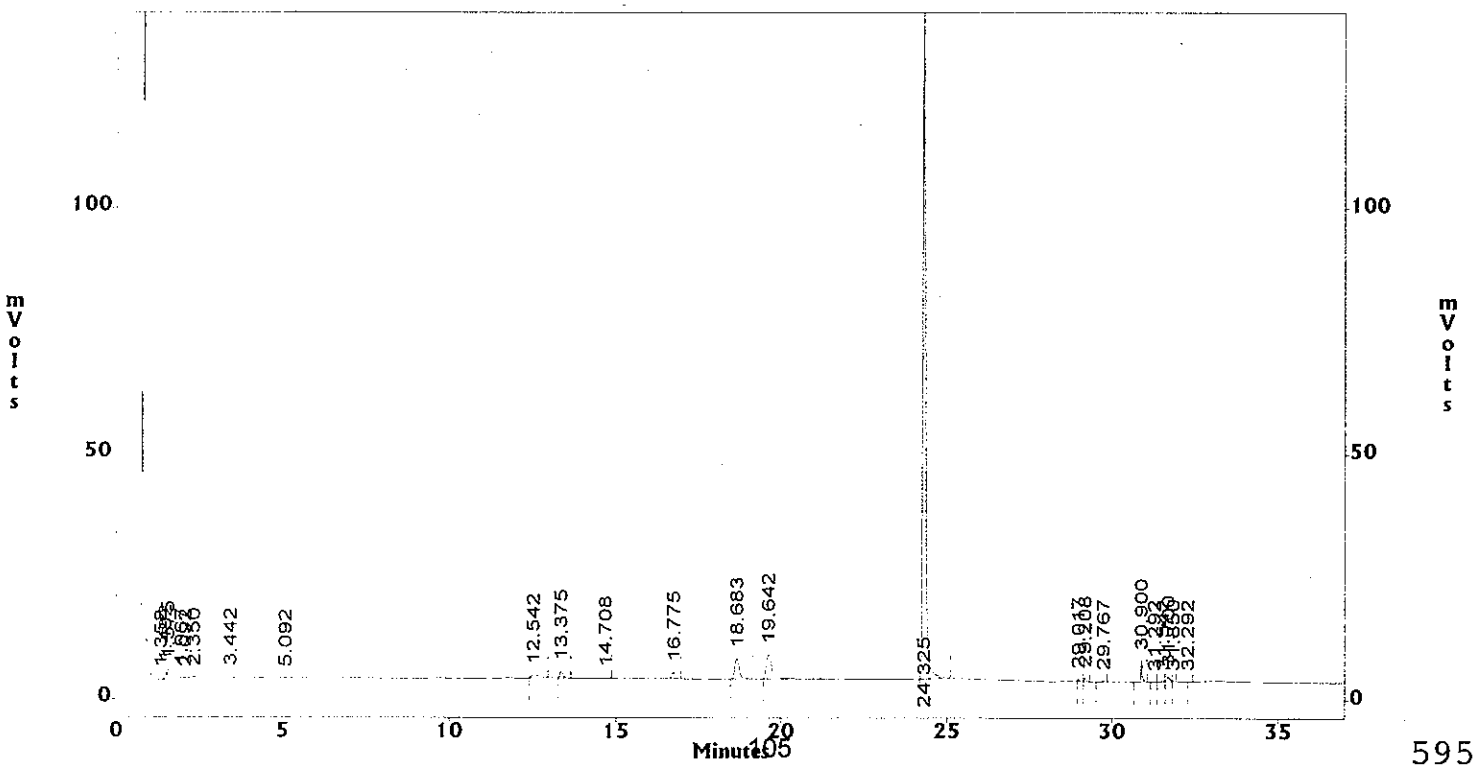
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 02:53:03
Printed : Dec 16, 2004 18:41:38
User : System

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
13	6 MCPP(ppm)	18.68	40462	4177	3.297474	4.31
14	7 MCPA(PPm)	19.64	60762	4989	4.736005	4.20
15	10 DBOB (IS)	24.33	763091	135747	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\4163g.q02 -- Channel A



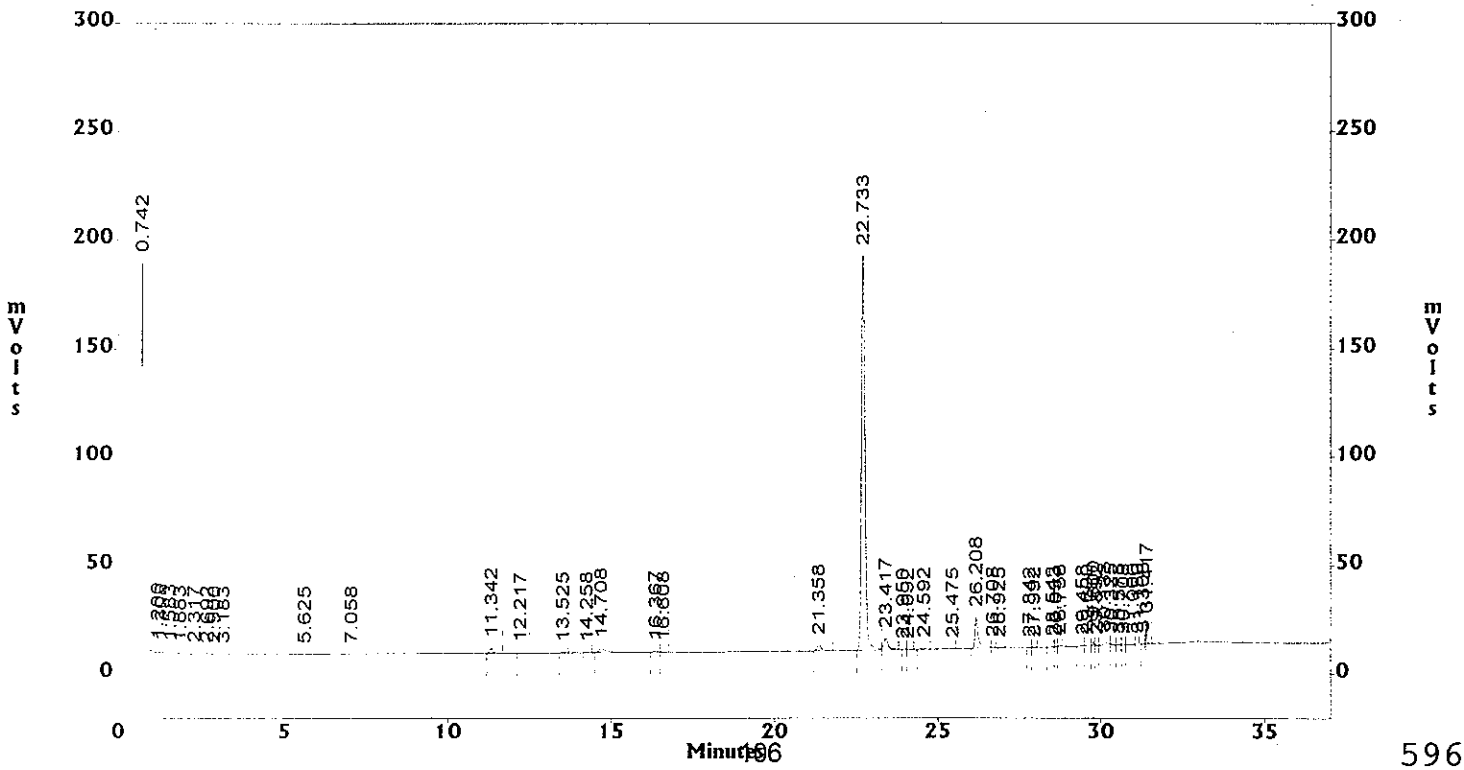
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q02
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 02:53:03
Printed : Dec 16, 2004 18:41:39
User : System

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
19	6 MCPP (ppm)	21.36	24521	2641	0.934563	4.89
20	7 DBOB (IS)	22.73	1409088	181820	1.000000	250.00
21	8 MCPA (ppm)	23.42	45575	5144	1.697035	4.76

c:\data\2004\0412\8151t\04g4163\4163g.q02 -- Channel B



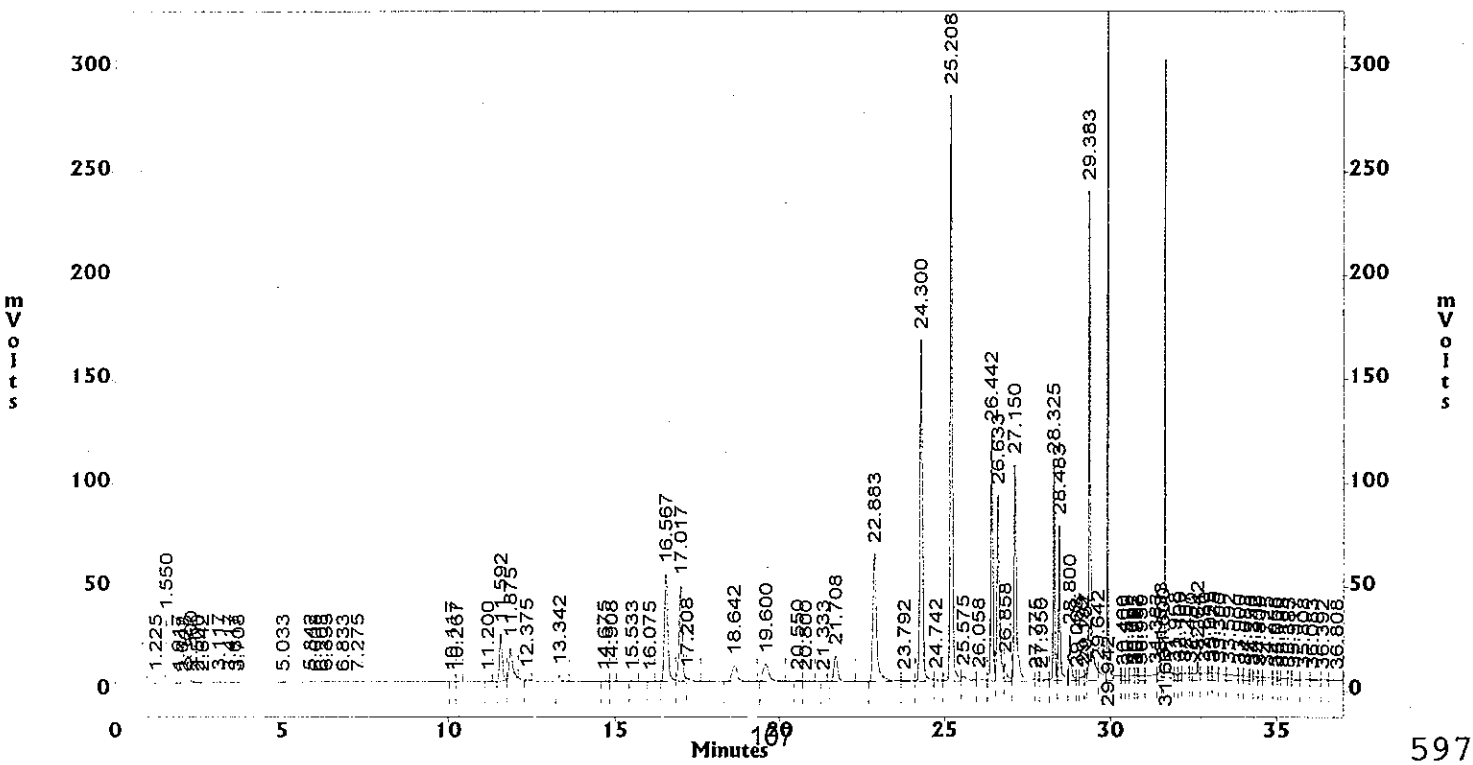
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q03
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 09, 2004 13:42:09
Printed : Dec 14, 2004 14:42:43
User : Connie Chen

Channel A Results

No.		Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
2	1	Dalapon	1.55	88336	29487	0.101430	245.93
23	2	3,5-Di-Cl-Bz acid	11.59	126781	22874	0.136961	261.40
24	3	4-Nitrophenol	11.88	101042	15007	0.099783	285.95
31	4	DCAA(Surr)	16.57	363793	51801	0.083432	1231.31
32	5	Dicamba	17.02	310320	46043	0.361668	242.29
34	6	MCPP(ppm)	18.64	83155	7545	1.228394	32.14
35	7	MCPA(PPm)	19.60	96771	8274	1.598133	29.53
39	8	Dichloroprop	21.71	98195	12417	0.106317	260.81
40	9	2,4-D (m)	22.88	496195	61693	0.110653	1266.29
42	10	DBOB (IS)	24.30	885314	164693	1.000000	250.00
44	11	Pentachlorphenol	25.21	1314225	282223	1.476711	251.31
47	12	Silvex (m)	26.44	507759	119811	0.554810	258.44
48	13	Chloramben	26.63	454391	89835	0.461232	278.20
50	14	2,4,5-T (m)	27.15	533337	104168	0.596850	252.34
53	15	Dinoseb	28.33	334481	104367	0.378307	249.67
54	16	2,4-DB	28.48	264914	75059	0.053067	1409.68
55	17	Bentazon	28.80	85417	21979	0.101517	271.92
59	18	Picloram	29.38	816818	236103	0.733773	314.34
61	19	DCPA	29.94	715676	321857	0.869976	232.30
71	20	Acifluorfen	31.67	578750	298988	0.609087	268.32

c:\data\2004\0412\8151t\04g4163\4163g.q03 -- Channel A



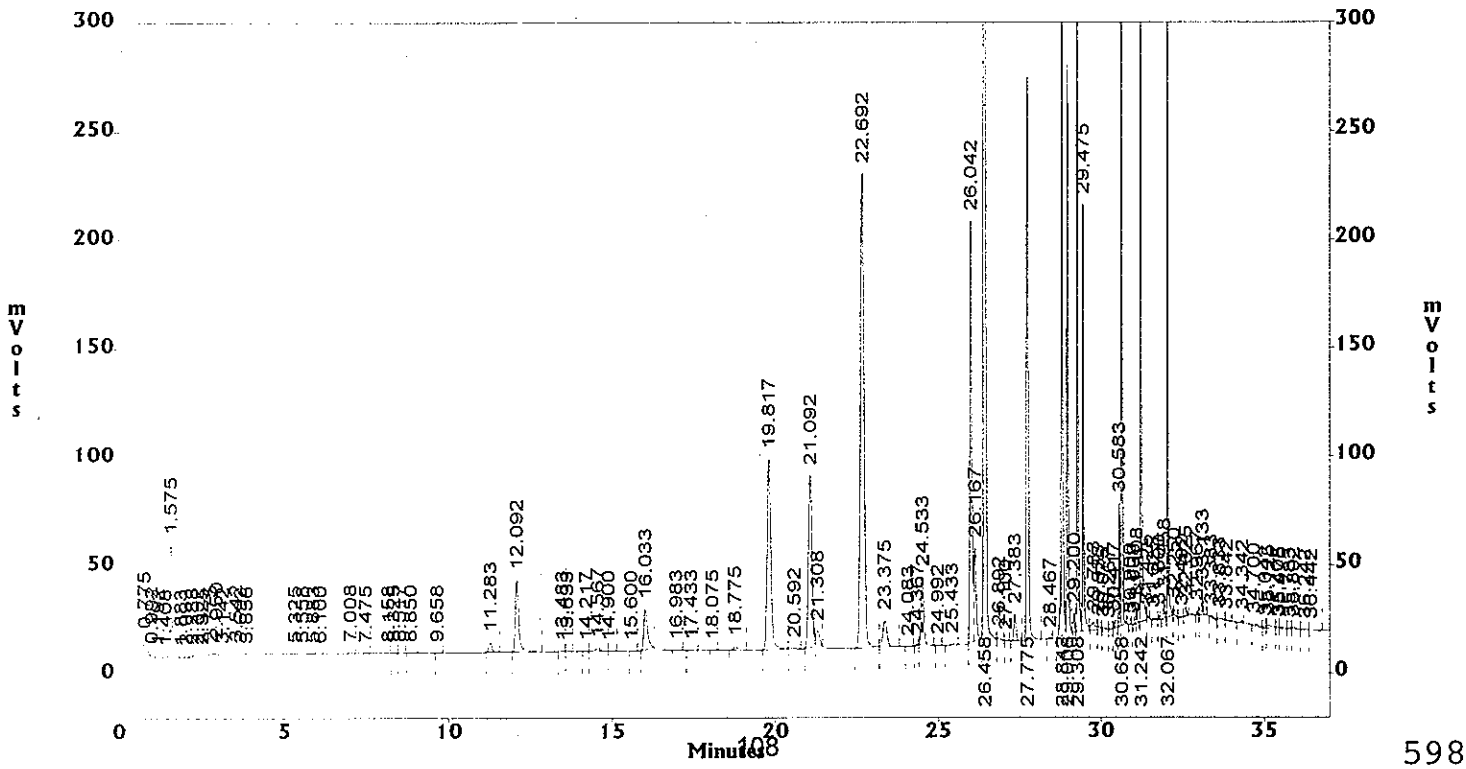
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q03
Method : c:\ezchrom\methods\8151-066.t00
Sample ID : 250ppb gc16862
Acquired : Dec 09, 2004 13:42:09
Printed : Dec 14, 2004 14:42:45
User : Connie Chen

Channel B Results

No.		Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
5	1	Dalapon	1.58	194509	51951	0.126755	232.04
29	2	3,5-Di-Cl-Bz acid	12.09	249862	33325	0.154483	244.57
36	3	4-Nitrophenol	16.03	152805	18880	0.093535	247.03
41	4	DCAA (surr)	19.82	696943	88074	0.088093	1196.30
43	5	Dicamba	21.09	604981	79716	0.371609	246.17
44	6	MCPP (ppm)	21.31	62196	7413	0.511087	21.78
45	7	DBOB (IS)	22.69	1653322	218846	1.000000	250.00
46	8	MCPA (ppm)	23.38	101015	12196	0.839008	24.82
49	9	Dichloroprop	24.53	176013	31740	0.113524	234.44
52	10	2,4-D (m)	26.04	842439	194447	0.094967	1341.37
54	11	Pentachlorphenol	26.46	2498222	584601	1.572894	240.17
58	12	Silvex (m)	27.77	1013119	259618	0.632949	242.03
60	13	2,4,5-T (m)	28.84	959618	310029	0.557553	260.25
61	14	Dinoseb	29.01	706175	262566	0.471303	226.57
63	15	Chloramben	29.31	852332	320746	0.478771	269.19
64	16	2,4-DB	29.48	487831	196771	0.067091	1099.47
70	17	Bentazon	30.58	109403	57060	0.071389	231.73
71	18	DCPA	30.66	1374158	702486	0.864605	240.33
75	19	Picloram	31.24	1611369	804231	0.849758	286.74
80	20	Acifluorfen	32.07	1055327	609551	0.656098	243.22

c:\data\2004\0412\8151t\04g4163\4163g.q03 -- Channel B



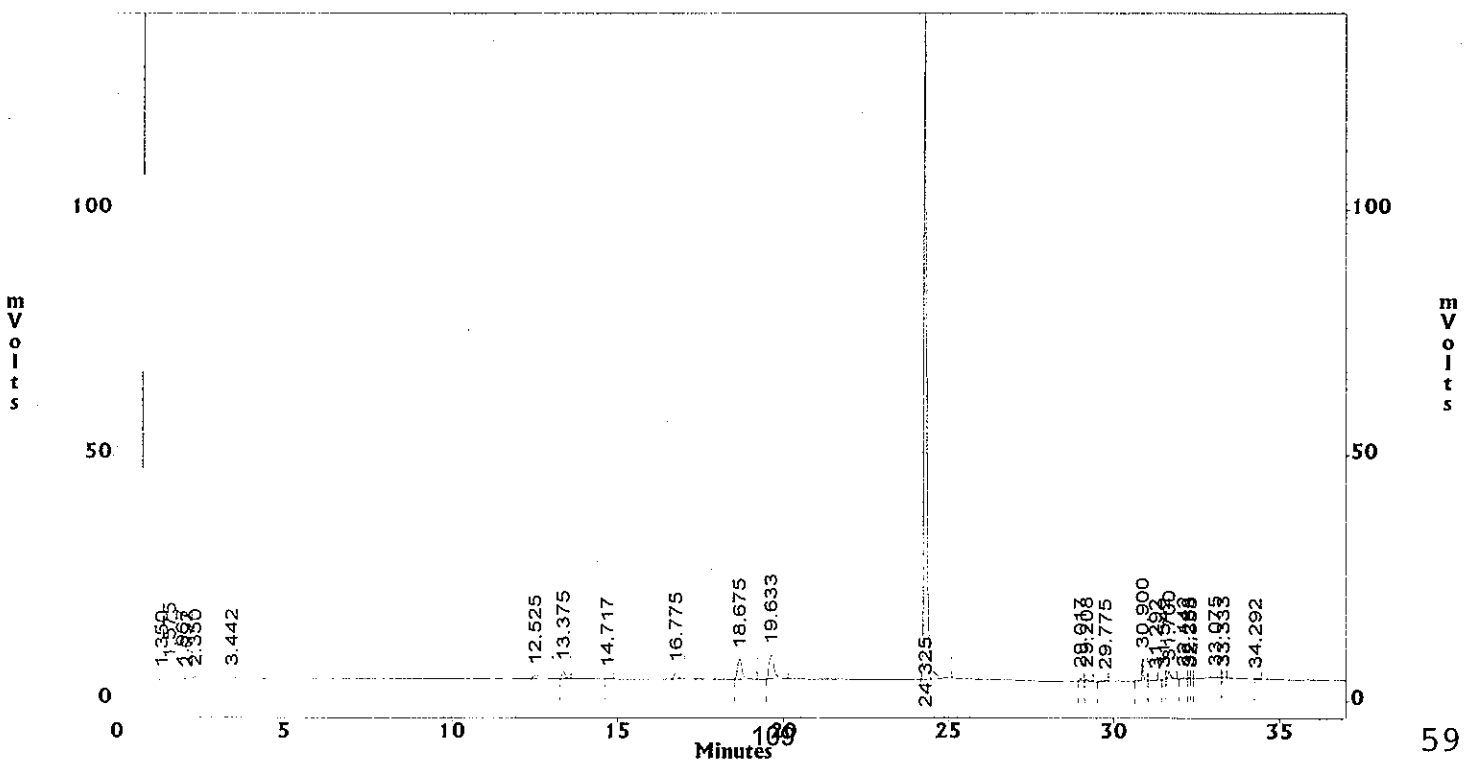
Applied P & Ch Laboratory
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-5MS 0.32mmx0.5umx30m Injection:1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q04
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 15:03:35
Printed : Dec 16, 2004 18:40:26
User : System

Channel A Results

No.	Peak Name	Rt.min	Area	Height	Ave.Rf	ISTD (ppb)
11	6 MCPP(ppm)	18.67	38648	4065	3.297474	4.07
12	7 MCPA(PPm)	19.63	52549	4879	4.736005	3.68
13	10 DBOB (IS)	24.33	754278	135623	1.000000	250.00

c:\data\2004\0412\8151t\04g4163\4163g.q04 -- Channel A



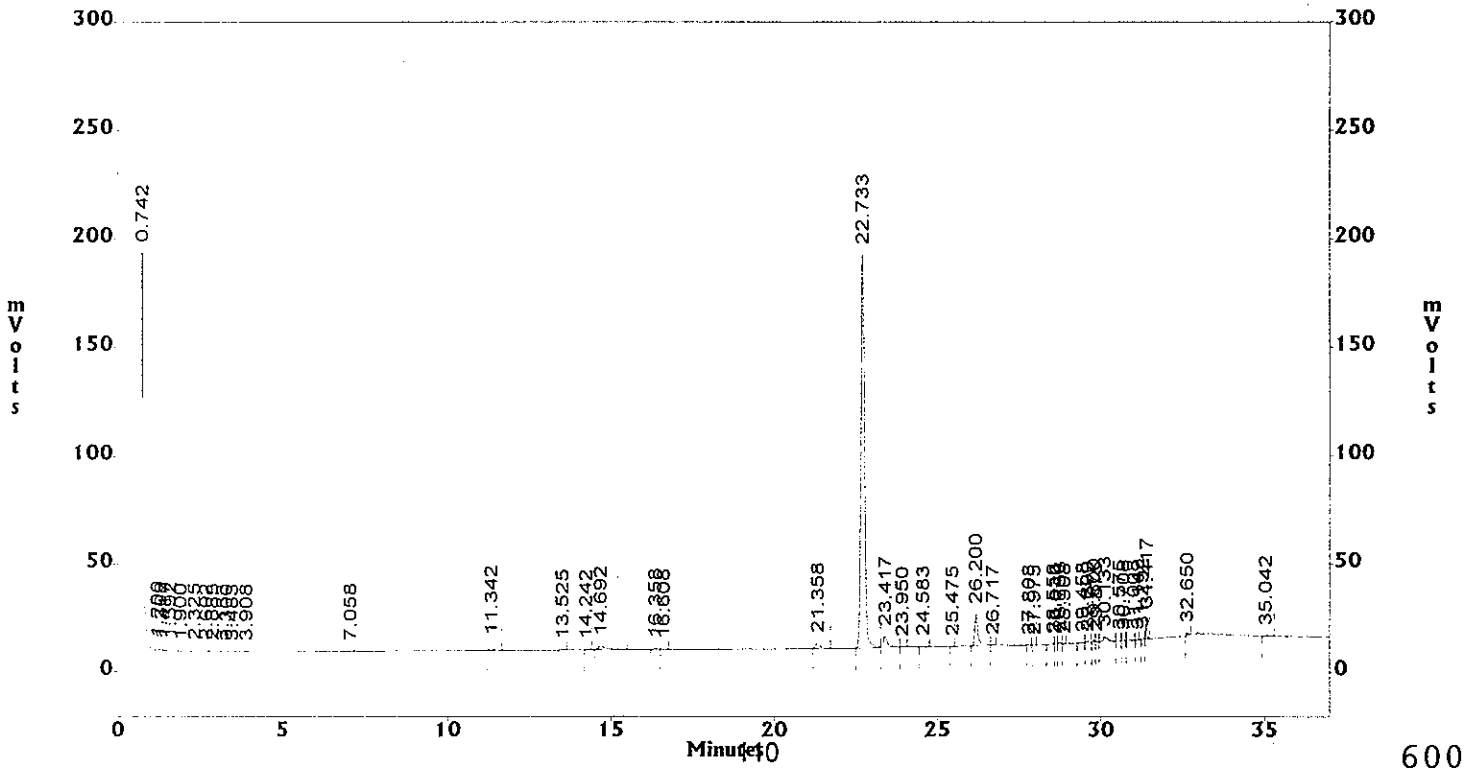
Applied P & Ch Laboratory,
8151 Herbercides System: GC-T (HP 6890)
Column: J&W DB-608 0.32mmx0.5umx30m; Injection: 1uL

File : c:\data\2004\0412\8151t\04g4163\4163g.q04
Method : c:\ezchrom\methods\8151-066.t0a
Sample ID : 5ppm gc17092
Acquired : Dec 09, 2004 15:03:35
Printed : Dec 16, 2004 18:40:26
User : System

Channel B Results

No.	Peak Name	Rt.min	Area	Height	Ave.RF	ISTD (ppb)
21	6 MCPP (ppm)	21.36	23221	2590	0.934563	4.65
22	7 DBOB (IS)	22.73	1396729	181719	1.000000	250.00
23	8 MCPA (ppm)	23.42	45802	5139	1.697035	4.83

c:\data\2004\0412\8151t\04g4163\4163g.q04 -- Channel B



QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: Connie Chen

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q01
ID: ##04g4163,S gc16862 -- Dec 09, 2004 02:12:22
Printed: Dec 15, 2004 18:42:26

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	247.956	0.818	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.841	2.864	15.000	Passed
3 4-Nitrophenol	250.000	247.845	0.862	15.000	Passed
4 DCAA(Surr)	1200.000	1204.861	0.405	15.000	Passed
5 Dicamba	250.000	247.857	0.857	15.000	Passed
6 MCPP(ppm)	25.000	29.426	17.703	15.000	Failed
7 MCPA(PPm)	25.000	29.221	16.883	15.000	Failed
8 Dichloroprop	250.000	259.319	3.728	15.000	Passed
9 2,4-D (m)	1250.000	1257.523	0.602	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	249.979	0.009	15.000	Passed
12 Silvex (m)	250.000	252.384	0.954	15.000	Passed
13 Chloramben	250.000	248.947	0.421	15.000	Passed
14 2,4,5-T (m)	250.000	254.534	1.814	15.000	Passed
15 Dinoseb	250.000	254.758	1.903	15.000	Passed
16 2,4-DB	1250.000	1317.094	5.368	15.000	Passed
17 Bentazon	250.000	269.439	7.776	15.000	Passed
18 Picloram	250.000	281.146	12.459	15.000	Passed
19 DCPA	250.000	256.094	2.438	15.000	Passed
20 Acifluorfen	250.000	259.168	3.667	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	235.264	5.895	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	242.235	3.106	15.000	Passed
3 4-Nitrophenol	250.000	264.712	5.885	15.000	Passed
4 DCAA (surr)	1200.000	1193.182	0.568	15.000	Passed
5 Dicamba	250.000	247.077	1.169	15.000	Passed
6 MCPP (ppm)	25.000	27.129	8.517	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	26.174	4.697	15.000	Passed
9 Dichloroprop	250.000	237.706	4.918	15.000	Passed
10 2,4-D (m)	1250.000	1266.166	1.293	15.000	Passed
11 Pentachlorphenol	250.000	242.489	3.004	15.000	Passed
12 Silvex (m)	250.000	249.519	0.192	15.000	Passed
13 2,4,5-T (m)	250.000	245.531	1.788	15.000	Passed
14 Dinoseb	250.000	236.842	5.263	15.000	Passed
15 Chloramben	250.000	260.637	4.255	15.000	Passed

16 2,4-DB	1250.000	1124.503	10.040	15.000	Passed
17 Bentazon	250.000	243.494	2.602	15.000	Passed
18 DCPA	250.000	250.049	0.020	15.000	Passed
19 Picloram	250.000	285.846	14.338	15.000	Passed
20 Acifluorfen	250.000	255.996	2.398	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q02
ID: 5ppm gc17092 -- Dec 09, 2004 02:53:03
Printed: Dec 16, 2004 18:41:42

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.311	13.774	15.000	Passed
7 MCPA(PPm)	5.000	4.203	15.935	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.886	2.285	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.765	4.706	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t00
User: Connie Chen

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q03
ID: 250ppb gc16862 -- Dec 09, 2004 13:42:09
Printed: Dec 15, 2004 18:44:47

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	245.931	1.628	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	261.398	4.559	15.000	Passed
3 4-Nitrophenol	250.000	285.948	14.379	15.000	Passed
4 DCAA(Surr)	1200.000	1231.308	2.609	15.000	Passed
5 Dicamba	250.000	242.294	3.083	15.000	Passed
6 MCPP(ppm)	25.000	32.140	28.559	15.000	Failed
7 MCPA(PPm)	25.000	29.531	18.123	15.000	Failed
8 Dichloroprop	250.000	260.812	4.325	15.000	Passed
9 2,4-D (m)	1250.000	1266.289	1.303	15.000	Passed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
11 Pentachlorphenol	250.000	251.314	0.526	15.000	Passed
12 Silvex (m)	250.000	258.438	3.375	15.000	Passed
13 Chloramben	250.000	278.197	11.279	15.000	Passed
14 2,4,5-T (m)	250.000	252.336	0.934	15.000	Passed
15 Dinoseb	250.000	249.672	0.131	15.000	Passed
16 2,4-DB	1250.000	1409.676	12.774	15.000	Passed
17 Bentazon	250.000	271.920	8.768	15.000	Passed
18 Picloram	250.000	314.345	25.738	15.000	Failed
19 DCPA	250.000	232.301	7.079	15.000	Passed
20 Acifluorfen	250.000	268.321	7.328	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
1 Dalapon	250.000	232.037	7.185	15.000	Passed
2 3,5-Di-Cl-Bz acid	250.000	244.569	2.172	15.000	Passed
3 4-Nitrophenol	250.000	247.027	1.189	15.000	Passed
4 DCAA (surr)	1200.000	1196.299	0.308	15.000	Passed
5 Dicamba	250.000	246.172	1.531	15.000	Passed
6 MCPP (ppm)	25.000	21.782	12.872	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	25.000	24.822	0.711	15.000	Passed
9 Dichloroprop	250.000	234.445	6.222	15.000	Passed
10 2,4-D (m)	1250.000	1341.374	7.310	15.000	Passed
11 Pentachlorphenol	250.000	240.167	3.933	15.000	Passed
12 Silvex (m)	250.000	242.033	3.187	15.000	Passed
13 2,4,5-T (m)	250.000	260.253	4.101	15.000	Passed
14 Dinoseb	250.000	226.566	9.374	15.000	Passed
15 Chloramben	250.000	269.193	7.677	15.000	Passed

16 2,4-DB	1250.000	1099.475	12.042	15.000	Passed
17 Bentazon	250.000	231.729	7.308	15.000	Passed
18 DCPA	250.000	240.326	3.869	15.000	Passed
19 Picloram	250.000	286.736	14.694	15.000	Passed
20 Acifluorfen	250.000	243.221	2.712	15.000	Passed

Signature _____

QC Check Standard Report
Batch: c:\ezchrom\sequence\2004\04g4163.seq
Method: c:\ezchrom\methods\8151-066.t0a
User: System

Check Standard File: c:\data\2004\0412\8151t\04g4163\4163g.q04
ID: 5ppm gc17092 -- Dec 09, 2004 15:03:35
Printed: Dec 16, 2004 18:40:41

Channel A

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP(ppm)	5.000	4.073	18.536	15.000	Failed
7 MCPA(PPm)	5.000	3.678	26.449	15.000	Failed
10 DBOB (IS)	250.000	250.000	0.000	15.000	Passed

Channel B

Compound	Expected Conc.	Actual Conc.	%RD Actual	%RD Limit	Status
6 MCPP (ppm)	5.000	4.648	7.049	15.000	Passed
7 DBOB (IS)	250.000	250.000	0.000	15.000	Passed
8 MCPA (ppm)	5.000	4.831	3.383	15.000	Passed

Signature _____

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation Logbook

Batch # 046 4163 Matrix: S Target method: 8151A EXT Method: 8151A Date: 12-03-04

Solvent: Ether Lot # 031271-15 Exchange Solvent: Hexane Lot # C-1870 Analyst: LT

Lot #: Surr.: GC- Conc.: ppm Na_2SO_4: ☐ Sonicator Tune

Op. #	Sample Type	Sample ID #	Smpl Amnt (mL or g)	Surr. Vol mL	Extract sub-ID	Final Vol. mL	Dilution $F=V/X$	pH	Note & Anomaly
2831	MB	046 4163-100	50.00	1.00	8151A	10.00	0.20		
2832	LCS	-101	50.01						
2833	LCSD	-J01	50.00						
2834	Sample-1	04-5546-1	50.00						
2835	MS				12-03-04				
2836	MSD				LT				
2837	Sample-2	04-5566-1	50.00	1.00	8151A	10.00	0.20		
2838	Sample-3	04-5616-1	50.00						
2839	Sample-4								
2840	Sample-5								
2841	Sample-6								
2842	Sample-7								
2843	Sample-8								
2844	Sample-9								
2845	Sample-10								
2846	Sample-11								
2847	Sample-12								
2848	Sample-13				12-03-04				
2849	Sample-14				LT				
2850	Sample-15								
2851	Sample-16								
2852	Sample-17								
2853	Sample-18								
2854	Sample-19								
2855	Sample-20								
2856	MTX Dup.								
2857	LCS′								
2858	LCSD′								
2859	MS′								
2860	MSD′								

Type	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$	Op #	STD Lot #	$C_{std}(ppm) \times V_{std}(mL)/X(g \text{ or } mL) = T$
LCS/LCSD	2832	GC-1644	1000 × 2.5 × 1.00 /X= ppb	2833	GC-1644	1000 × 2.5 × 1.00 /X= ppb
MS/MSD		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
LCS′/LCSD′		GC-	1000 × × /X= ppb		GC-	1000 × × /X= ppb
MS′/MSD′		GC-	1000 × × /X= 117 ppb		GC-	1000 × × /X= 607 ppb

Supervisor Initial _____

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation

Extraction method: **1** 3510–separate funnel; **2** 3520–L-L continue extraction; **3** 3550–Ultrasonic; **4** LUFT–Shaker; **5** 3540–Soxhlet; **6** Solid phase Extraction; **7** Microextraction; **8** SFE; **9** Dilution; **10** Concentration; **11** Other, specify.

NCP 12/16/04 04-5546

Service ID: 04G Batch # 04G4163 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by 14 Date 12/07/04 Surro Lot GC-16435 Conc. 20.0 ppm.
LCS Lot GC-16441 Conc. 2.5 ppm MS Lot GC-16441 Conc. 2.5 ppm.
Ext. solv. Ether Lot # 031271-15 Exchange solv. Hexane Lot # C-1870

Sample ID	-1101	-L01	-T01	-1				
Sample Matrix	S →							
Sample Amount, X (g/mL)	50.00	50.01	50.00	50.00				
Any TCLP, EP, WET, SPLP ?								
Surr. STD used, mL	1.00 →							
Spike STD used, mL		1.00 →						
[Extracted at pH]	<2, >12 →				/	/	/	/
Solvent amount, mL	3 x 60 →				x	x	x	x
Final volume, V, mL	10.00 →							
Extraction DF $f_e = V/X$	0.20 →							
Sub-ID of extracts	8151A →							
Anomaly Footnote† :								

Sample Cleanup

Op. by ____ Date / / (For details, see Cleanup worksheet)

Cleanup method:								
Cleanup DF, f_c								
Preparation DF, $f_1 = f_e\ f_c$								

Pre-injection*:

Op. by Connie Date 12/7/04 IS Lot : GC- ____ Conc. ____ pp

2nd dilution, f_2	(1)							
V_t, μL	(40)							

Single Extract GC, GC/MS Analysis:

$V_2 = V_t/f_2$, μL	($40/f_2$)							
$V_{solvent} = V_t - V_2$, μL								

Double Extract GC, GC/MS Analysis:

$V_> = \frac{1}{2} V_t/f_2$, μL	($20/f_2$)							
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL	($\frac{20}{f_2}\frac{f_<}{f_>}$)							
$V_{solvent} = V_t - V_> - V_<$								
IS volume, μL	(10)							
Final Conc. of IS	(40 ppm)							
Total $F = 2\ f_1\ f_>$ or $f_1\ f_2$	6.20 →							

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

APCL form 7-122 (old 5-110), Ver. 3.0 April 5, 1996. No pencil. Use blue pen for record. Use red pen for correction.

File: {CUST.DOC.GC}EXTRACTION.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Organic Sample Preparation

Extraction method: **1** 3510–separate funnel; **2** 3520–L-L continue extraction; **3** 3550–Ultrasonic; **4** LUFT–Shaker; **5** 3540–Soxhlet; **6** Solid phase Extraction; **7** Microextraction; **8** SFE; **9** Dilution; **10** Concentration; **11** Other, specify.

Service ID: 04-5566 **Batch #** 04G4163 Matrix S GC, GC/MS Method 8151A Ext Method 8151A

Sample Extraction

OP. by LW Date 12/07/04 Surro Lot GC-16435 Conc. 20.0 ppm
LCS Lot GC-16441 Conc. 2.5 ppm MS Lot GC-16441 Conc. 2.5 ppm
Ext. solv. EThex Lot # 031271-15 Exchange solv. Hexane Lot # C-1870

Sample ID	— 1											
Sample Matrix	S											
Sample Amount, X (g/mL)	50.00											
Any TCLP, EP, WET, SPLP ?												
Surr. STD used, mL	1.00											
Spike STD used, mL												
[Extracted at pH]	<2 / >12	/	/	/	/	/	/	/	/	/	/	/
Solvent amount, mL	3 × 60	×	×	×	×	×	×	×	×	×	×	×
Final volume, V, mL	10.00											
Extraction DF $f_e = V/X$	0.20											
Sub-ID of extracts	8151A											
Anomaly Footnote† :												

Sample Cleanup

Op. by ____ Date / / (For details, see Cleanup worksheet)

Cleanup method:												
Cleanup DF, f_c												
Preparation DF, $f_1 = f_e\, f_c$												

Pre-injection*:

Op. by Connie Date 12/7/04 IS Lot : GC- ____ Conc. ____ pp

2nd dilution, f_2	(1)											
V_t, μL	(40)											
Single Extract GC, GC/MS Analysis:												
$V_2 = V_t/f_2$, μL	($40/f_2$)											
$V_{solvent} = V_t - V_2$, μL												
Double Extract GC, GC/MS Analysis:												
$V_> = \frac{1}{2} V_t/f_2$, μL	($20/f_2$)											
$V_< = \frac{1}{2}\frac{V_t}{f_2}\frac{f_<}{f_>}$, μL	($\frac{20}{f_2}\frac{f_<}{f_>}$)											
$V_{solvent} = V_t - V_> - V_<$												
IS volume, μL	(10)											
Final Conc. of IS	(40 ppm)											
Total $F = 2\, f_1\, f_>$ or $f_1\, f_2$		0.20										

† Extraction Anomaly Footnote:

1. Difficult to concentrate to 1.0 mL.
2. Extract is dark color
3. Extract is sticky
4. Heterogenous matrix.
5. Too much precipitate during extraction.
6. There is an oil layer above the sample.
7. Mixture of soil & water.
8. BN-extract is interfered, A-extract only.
9. Sample has strong stink
10. Some solvent suspected
11. special color, specify

* For double extract analysis (ABN), $f_> = \max[f_A, f_B]$ and $f_< = \min[f_A, f_B]$, where f_A, f_B are f_1 for A and BN extracts, respectively. The values in () is the typical case for 625/8270 ABN analysis.

APCL form 7-122 (old 5-110), Ver. 3.0 April 5, 1996. No pencil. Use blue pen for record. Use red pen for correction.

File: [CUST.DOC.GC]EXTRACTION.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Analysis Anomaly Record

Batch #: 046 4163 Method: 8151A Matrix: S Date: 12-07-04

Samples Involved: 5546, 5566, 5616

- **Anomaly for MS/MSD/MD**
  - ☐ 1. MS/MSD out of control limit, sample matrix interference suspected
  - ☐ 2. MS or MSD out of control limit, but $\overline{MS}$ is O.K.
  - ☐ 3. One of MS/MSD, and $\overline{MS}$ out of control limit, but not enough sample for re-analysis
  - ☒ 4. Not enough sample for MS/MSD, LCS/LCSD may be used
  - ☐ 5. Spiked samples contain high concentration of analytes (>4 × spiked concentration)
  - ☐ 6. MS/MSD out of control limit, but post spike is O.K.
  - ☐ 7. MS/MSD out of control limit, due to the heterogenous matrix
  - ☐ 8. MS/MSD out of control limit, due to the very special matrix
  - ☐ 9. Not enough sample for matrix duplicate (MD)
- **Anomaly for Holding time (HT)**
  - ☐ 10. HT has been exceeded when received, authorized by the Client to carry on with the analyses
  - ☐ 11. Extraction HT was passed, authorized by the Client to carry on with the analyses
  - ☐ 12. Analysis HT was passed, authorized by the Client to carry on with the analyses
- **Surrogates Anomaly**
  - ☐ 13. Surrogate recovery out of control limit (see Level-1 Part III), sample matrix interference suspected
  - ☐ 14. Surrogate recovery out of control limit (see Level-1 Part III), but not enough sample for re-analysis
  - ☐ 15. Surrogate recovery out of control limit, due to very special matrix
  - ☐ 16. Surrogate diluted out (for highly contaminated samples)
  - ☐ 17. Lower surrogate recovery due to cleanup process
- **Chromatogram Pattern Anomaly**
  - ☐ 18. Not a typical gasoline chromatogram pattern
  - ☐ 19. Not a typical diesel chromatogram pattern
  - ☐ 20. Not a typical diesel chromatogram pattern, but similar to heavy-oil or motor oil
  - ☐ 21. Not a typical kerosene chromatogram pattern
  - ☐ 22. Not a typical jet fuel chromatogram pattern
  - ☐ 23. Not a complete PCB chromatogram pattern, interference/degration suspected
- **Other anomaly**

Problem Description: _____

Reason: _____

Analyst: [illegible] Date: 12-07-04

Note: _____

APCL form 4-116 , Ver. 2.0 July. 1, 1995 No pencil. Use blue pen for record. Use red pen for correction.

pplied P & Ch Laboratory
0 Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Starting Date: 12/09/04 Time 02:12 Analyst: Connie

uence # 0494163'

Datafile Path:

. type: ☒ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study

utine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

. #	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
5545			Tcal	1ppm	8151-066.~~tOO~~ toa		1		8151-066.p01	V	GC17095
5546				2ppm					.p02		GC17094
5547				3ppm					.p03		GC17093
5548				5ppm					.p05		GC17096
5549				8ppm					.p08		GC17091
5550				10ppm					.p10		GC17090
5551				ICV					8151-066.ICV		GC17096
5552				50ppb	8154-066.~~tOO~~				8151-066.05		GC16860
5553				100ppb					.101		GC16861
5554				250ppb					.251		GC16862
5555				400ppb					.401		GC16863
5556				500ppb					.501		GC16864
5557				ICV					.ICV		GC16863
5558	0494163	5	CCV	4163g.901	8154-066.~~tOO~~				4163g.901		GC17092
5559			CCV	4163g.902	8154-066.toa				4163g.902		
5560			MB	.K01	8154-066.~~tOO~~		0.2		.K01		
5561			LCS	.L01					.L01		
5562			LCSD	.J01					.J01		
5563				5546-01					5546.001		
5564				~~5566-01~~					5566.001		
5565				5616-01					5616.001		
5566	0494173	W	MB	4173g.K01			0.01		4173g.K01		
5567			LCS	.L01					4173g.~~K01~~ L01		
5568			LCSD	.J01					.J01		
5569			MS	.M01			0.00962		.M01		GC16862
5570			~~CCV~~ MSD	.q03					.q03		GC17092
5571			CCV	.q04	8154-066.toa				.q04		
5572			MSD	.n01	8154-066.~~tOO~~		0.00962		.n01		
5573				5584-01					Q 5584.001		
5574				5584-02					5584.002		

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

FILE: [CUST.DOC.GC]GC_LOG .TEX Root-File: GC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]GC_LOG1.TEX
APCL form 7-101, Nov 29, 1999; Ver 4.2 No pencil. Use blue pen for record. Use red pen for correction.

pplied P & Ch Laboratory
0 Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Starting Date: 12/09/04 Time 02:12 Analyst: Connie

uence # 0494163 Datafile Path:

. type: ☐ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study ☐ Cut Guid Column ☐ Cut Column ☐ Others

tine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal

#	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
577	0494173	W		5584-03	8151-066.too		0.00762		5584.003	✓	
578				5587-01					5587.001		
579				5587-02					.002		
580				5587-03					.003		
581				5600-01					5600.001		
5582				5600-02					.002		
5583				5604-02					5604.001		
5584			CCV	4163g.915					4163g.915		GC16862
5585			CCV	4163g.906	8151-066.too				4163g.906		GC17092
5586				5604-02	8151-066.too		0.0762		5604.~~00~~ 002		
5587			CCV	4163g.917					4163g.917		GC16862
5588			CCV	4163g.908	8151-066.too				4163g.908		GC17092
5589	0494149	W	CCV	4163g.909	8151-066.too				4163g.909		GC16862
5590			CCV	4163g.409	8151-066.too				4163g.409		GC17092
5591			MB	4149g.k01	8151-066.too		0.01		4149g.k01		
5592			LCS	.201					.201		
5593			LCSD	.301					.301		
5594				5547-01					5547.001		
5595	0494117	W	MB	4117g.k01			0.01		4117g.k01		
5596			LCS	.201					.201		
5597			LCSD	.301					.301		
5598				5515-01					5515.001		
5599				5515-02					5515.002		
5600				-03					.003		
5601			CCV	4163g.~~910~~ 410	8151-066.too				4163g.~~910~~ 410		GC16862
5602			CCV	.410	.too				.410		GC17092
5603				5523-01	8151-066.too		0.01		5523.001		
5604				5523-02					5523.002		
5605				5524-01					5524.001		
5606	0494112	W	MB	4112g.k01					4112g.k01		

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

FILE: [CUST.DOC.GC]GC_LOG .TEX Root-File: GC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]GC_LOG1.TEX
APCL form 7-101, Nov 29, 1999; Ver 4.2 No pencil. Use blue pen for record. Use red pen for correction.

plied P & Ch Laboratory
Magnolia Ave. Chino CA 91710
909) 590-1828 Fax: (909) 590-1498

Semi-VOC Analysis Logbook

Starting Date: 12/09/04 Time 02:12 Analyst: Connie

ence # 0494163 Datafile Path:

type: ☒ Cal. ☒ Ini. Batch ☐ Middle ☐ Final ☐ Continue ☐ Study

ine Maintenance: ☐ Replace Septum ☐ Replace Liner ☐ Replace Seal ☐ Cut Guid Column ☐ Cut Column ☐ Others

#	Batch-No	MTX	S Type*	Sample ID	Method**	f_2	F	A-#	Datafile	OK ?†	Note††
09	0494112	W	LCS	4129.101	8151-066.100		0.01		811 4129.101	✓	
10			LCSD	↓ .101					↓ .101		
11				5475-01					5475.101		
12				5451-01					5451.101		
13				5458-01					5458.101		
14			CCV	4139.922					4139.922		GC16862
15			CCV	↓ .420	8151-066.109				↓ .420		GC17092
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											

12-15-04

Footnote/Anomaly:

* Sample type such as, SP(BFB, or DFTPP), CCV, CVA, CVB, LCS, LCSD, MS, MSD, MD, CLS etc. For field samples leave as blank.

** Method name: [MMMM][S][nnn]. [MMMM] – method code, per SOP C-88. Special codes: DSL2: Diesel #2; FP30: Fuel Finger Print (C8-C30); FP40: Fuel Finger Print (C8-C40); EGLY: Ethylene Glycol; FORM: Formaldehyde; MEOH: Methyl Alcohol. [S] – APCL system code; [nnn] – initial calibration number.

† Specify the result of the injection is accepted (√), or denied (X), or need Re-run (R) or use as a reference data (ref).

†† Lot # for CCV/Closing, Time for SP (e.g. DFTPP) must be recorded.

Supervisor Initial

FILE: [CUST.DOC.GC]GC_LOG .TEX Root-File: GC_LOG_ROOT.TEX 1-Page-File:[CUST.DOC.GC]GC_LOG1.TEX
APCL form 7-101, Nov 29, 1999; Ver 4.2 No pencil. Use blue pen for record. Use red pen for correction.

Level D Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

Applied P & CH Laboratories

Wet Analysis Results for Method ASTM-D2216

Client Name:	Curtis & Tompkins	Project No:	176248	Anal. Method	ASTM-D2216
Project ID:	Presidio	Service ID:	45566	Collected by:	

Component Name: Moisture
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
04-5566-1	BB3EX153[0.5]	Soil	11/23/04	11/30/04	11/30/04	04W4728	%Moisture	0.5	2.3	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 04-5566

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	04W4728	11/30/2004	04-5564-02	%moisture	5.3	4.6	13	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 0446415 SOP: G-86
Date 11/29/00 Analyst [illegible]

Batch # 0446428 SOP: G-86
Date 11/30/00 Analyst [illegible]

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%
Smpl-1 MH	5530-1	21.62	38.53	36.62	11.30	Smpl-1 OY	5564-1	22.03	44.47	41.77	12.03
Smpl-2 KM	2	21.07	41.04	38.94	10.52	Smpl-2 MC	2	23.26	42.32	41.32	5.25
Smpl-3 XU	3	20.92	36.53	35.21	8.46	Smpl-3 TD	3	20.94	51.41	44.92	21.30
Smpl-4 WX	4	20.77	43.43	40.46	13.11	Smpl-4 XH	4	22.80	45.02	42.55	11.16
Smpl-5 SY	5537-1	21.24	41.43	39.96	7.28	Smpl-5 PQ	5	21.19	39.11	37.60	8.43
Smpl-6 OV	5537-2	22.33	48.00	46.89	4.32	Smpl-6 OV	6	22.19	41.76	37.65	21.00
Smpl-7	3					Smpl-7 YU	5566-1	20.97	38.47	38.07	2.29
Smpl-8 HJ-9	5501	21.66	31.85	31.69	1.57	Smpl-8					
Smpl-9 SU	2	21.34	32.84	32.15	6.00	Smpl-9					
Smpl-10 T-4	2	22.30	32.55	31.84	6.93	Smpl-10					
Smpl-11 LA	4	22.60	34.99	33.72	10.25	Smpl-11					
Smpl-12 AA	5	22.00	40.03	37.72	12.81	Smpl-12					
Smpl-13 HJ2	6	23.11	32.44	31.59	8.92	Smpl-13					
Smpl-14 VB	7	23.06	32.35	31.54	8.72	Smpl-14					
Smpl-15						Smpl-15					
Smpl-16						Smpl-16					
Smpl-17						Smpl-17					
Smpl-18						Smpl-18					
Smpl-19						Smpl-19					
Smpl-20						Smpl-20					
MD	5530-4	22.78	44.02	41.76	12.99	MD	5564	21.41	43.08	42.08	4.62

Footnote/Anomaly:

APCL form 5-163 Ver. 1.1 Apr. 22, 1996 No pencil. Use blue pen for record. Use red pen for correction.
File: [CUST.DOC.WET]MOIS.TEX Root-File: MOIS_ROOT.TEX 1-Page-File: MOIS1.TEX

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Balance Daily Calibration Worksheet

Weight Set S/N 96-J087037-0018
~~Weight Set S/N: 12006~~

Calib. Date	Lab Balance Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
11/29/04	~~A-01~~	not	in	use		B-01	0.99	10.00	199.99	✓✓✓	C-01	1.0000	10.0000	200.0000	✓✓✓	Yz
	A-02					B-02	1.00	10.01	200.02	✓✓✓	C-02	0.9999	9.9999	199.9997	✓✓✓	
	A-03					B-03	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-06	0.99	9.98	199.97	✓✓✓	C-					
	A-					B-07	1.00	10.00	200.00	✓✓✓	C-					
	A-					B-					C-					
			11/29/04					11/29/04					11/29/04			
11/30/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	Yz
	A-02					B-02	1.00	10.01	200.00	✓✓✓	C-02	0.9999	9.9998	199.9997	✓✓✓	
	A-03					B-03	1.00	9.99	199.98	✓✓✓	C-					
	A-04					B-06	1.00	10.00	200.00	✓✓✓	C-					
	A-					B-07	1.00	10.00	200.00	✓✓✓	C-					
	A-					B-					C-					
			11/30/04					11/30/04					11/30/04			
12/1/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	Yz
	A-02					B-02	0.99	10.01	200.00	✓✓✓	C-02	0.9999	9.9998	199.9997	✓✓✓	
	A-03					B-03	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-06	1.00	9.99	199.99	✓✓✓	C-					
	A-					B-07	1.00	10.00	200.00	✓✓✓	C-					
	A-					B-					C-					
			12/1/04					12/1/04					12/1/04			
12/2/04	~~A-01~~	not	in	use		B-01	1.00	10.00	200.01	✓✓✓	C-01	1.0000	10.0000	200.0001	✓✓✓	Yz
	A-02					B-02	0.99	10.01	200.00	✓✓✓	C-02	0.9999	9.9998	199.9997	✓✓✓	
	A-03					B-03	1.00	10.00	200.00	✓✓✓	C-					
	A-04					B-06	1.00	9.99	199.99	✓✓✓	C-					
	A-					B-07	1.00	10.01	200.00	✓✓✓	C-					
	A-					B-					C-					
			12/2/04					12/2/04					12/2/04			

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

APCL form 4-213, March 30, 1995. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.

File: [CUST.DOC.LAB]BAL_CAL.TEX Root-File: BAL_CAL_ROOT.TEX 1-Page-File: BAL_CAL1.TEX

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Metals

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX154[0.5]	176248-001
DUP112304A	176248-002
BB3EX153[0.5]	176248-003
BB3EX151[0.5]	176248-004
BB3EX152[0.5]	176248-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
METALS (EPA 6010B AND EPA 7470A)

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 11/23/04. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7470A):

Low recoveries were observed for many analytes in the MS/MSD of BB3EX152[0.5] (lab # 176248-005); the BS/BSD were within limits, and the associated RPDs were within limits. High recovery was observed for barium in the MS of BB3EX152[0.5] (lab # 176248-005); the BS/BSD were within limits, and the associated RPD was within limits.

Response exceeding the instrument's linear range was observed for iron in the MS/MSD of BB3EX152[0.5] (lab # 176248-005).

High % difference was observed for beryllium in the serial dilution of BB3EX152[0.5] (lab # 176248-005).

No other analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

176248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2393.12
Project Manager\Contact: Sigrid Reinis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Analysis Requested

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Metals	PCB	Pesticides	VOCs	SVOCs	Mercury	Chlor. Herb.	TPH-d	TPH-g				Silica gel clean-up	Hold	Remarks
-1 BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X												~~MS/MSD~~
-2 DUP112304A		1242		X						1		X	X	X												
-3 BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X				X		48 day TAT MS/MSD
-4 BB3EX151[0.5]		1254		X						1		X	X	X												
-5 BB3EX152[0.5]		1257		X						1		X	X	X												MS/MSD
-6 TB112304A		1315		X			2								X											

LEVEL IV data package
sample all tubes from end labeled with a "B"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/23/04	1455	Tony Faye	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rolo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

Results & QC Summary

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX154[0.5]	Batch#:	96915
Lab ID:	176248-001	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/28/04
Basis:	dry	Analyzed:	11/29/04

Moisture: 6%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.6	1.000
Arsenic	3.0	0.22	1.000
Barium	17	0.44	1.000
Beryllium	0.11	0.087	1.000
Cadmium	0.25	0.22	1.000
Chromium	33	0.44	1.000
Cobalt	4.9	0.87	1.000
Copper	4.5	0.44	1.000
Iron	11,000	44	10.00
Lead	6.0	0.13	1.000
Manganese	140	0.44	1.000
Molybdenum	ND	0.87	1.000
Nickel	19	0.87	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	30	0.44	1.000
Zinc	17	0.87	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	DUP112304A	Batch#:	96915
Lab ID:	176248-002	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/28/04
Basis:	dry	Analyzed:	11/29/04

Moisture: 3%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.6	1.000
Arsenic	2.8	0.22	1.000
Barium	21	0.43	1.000
Beryllium	0.097	0.087	1.000
Cadmium	0.25	0.22	1.000
Chromium	30	0.43	1.000
Cobalt	4.8	0.87	1.000
Copper	5.0	0.43	1.000
Iron	10,000	43	10.00
Lead	6.8	0.13	1.000
Manganese	170	0.43	1.000
Molybdenum	ND	0.87	1.000
Nickel	19	0.87	1.000
Selenium	ND	0.22	1.000
Silver	ND	0.22	1.000
Thallium	ND	0.22	1.000
Vanadium	29	0.43	1.000
Zinc	17	0.87	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX153[0.5]	Batch#:	96915
Lab ID:	176248-003	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/28/04
Basis:	dry	Analyzed:	11/29/04

Moisture: 2%

Analyte	Result	RL	Diln Fac
Antimony	ND	2.2	1.000
Arsenic	2.7	0.18	1.000
Barium	21	0.37	1.000
Beryllium	0.092	0.074	1.000
Cadmium	0.24	0.18	1.000
Chromium	36	0.37	1.000
Cobalt	5.1	0.74	1.000
Copper	4.1	0.37	1.000
Iron	11,000	37	10.00
Lead	2.5	0.11	1.000
Manganese	170	0.37	1.000
Molybdenum	ND	0.74	1.000
Nickel	19	0.74	1.000
Selenium	0.32	0.18	1.000
Silver	ND	0.18	1.000
Thallium	ND	0.18	1.000
Vanadium	30	0.37	1.000
Zinc	16	0.74	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX151[0.5]	Batch#:	96915
Lab ID:	176248-004	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/28/04
Basis:	dry	Analyzed:	11/29/04

Moisture: 8%

Analyte	Result	RL	Dilu Fac
Antimony	ND	2.6	1.000
Arsenic	1.3	0.21	1.000
Barium	160	0.43	1.000
Beryllium	0.52	0.086	1.000
Cadmium	0.41	0.21	1.000
Chromium	11	0.43	1.000
Cobalt	20	0.86	1.000
Copper	100	0.43	1.000
Iron	25,000	43	10.00
Lead	8.4	0.13	1.000
Manganese	1,900	4.3	10.00
Molybdenum	ND	0.86	1.000
Nickel	14	0.86	1.000
Selenium	0.72	0.21	1.000
Silver	ND	0.21	1.000
Thallium	ND	0.21	1.000
Vanadium	28	0.43	1.000
Zinc	13	0.86	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX152[0.5]	Batch#:	96915
Lab ID:	176248-005	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/28/04
Basis:	dry	Analyzed:	11/29/04

Moisture: 8%

Analyte	Result	RL	Dilu Fac
Antimony	ND	2.7	1.000
Arsenic	2.1	0.23	1.000
Barium	210	0.45	1.000
Beryllium	0.64	0.091	1.000
Cadmium	ND	0.23	1.000
Chromium	13	0.45	1.000
Cobalt	19	0.91	1.000
Copper	120	0.45	1.000
Iron	30,000	23	5.000
Lead	11	0.14	1.000
Manganese	2,200	2.3	5.000
Molybdenum	ND	0.91	1.000
Nickel	17	0.91	1.000
Selenium	1.3	0.23	1.000
Silver	ND	0.23	1.000
Thallium	ND	0.23	1.000
Vanadium	36	0.45	1.000
Zinc	21	0.91	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals			
Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273998	Batch#:	96915
Matrix:	Soil	Prepared:	11/28/04
Units:	mg/Kg	Analyzed:	11/29/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Manganese	ND	0.50
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	96975
Field ID:	BB3EX153[0.5]	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/30/04
Diln Fac:	1.000	Analyzed:	11/30/04

Type	Lab ID	Result	RL	Basis	Moisture
SAMPLE	176248-003	ND	0.020	dry	2%
BLANK	QC274264	ND	0.020	as received	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	96915
Units:	mg/Kg	Prepared:	11/28/04
Basis:	as received	Analyzed:	11/29/04
Diln Fac:	1.000		

Type: BS Lab ID: QC273999

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	93.00	93	75-125
Arsenic	50.00	47.95	96	75-125
Barium	100.0	95.00	95	75-125
Beryllium	2.500	2.420	97	75-125
Cadmium	10.00	9.400	94	75-125
Chromium	100.0	95.50	96	75-125
Cobalt	25.00	23.65	95	75-125
Copper	12.50	12.30	98	75-125
Iron	1,000	977.0	98	75-125
Lead	100.0	95.00	95	75-125
Manganese	25.00	23.65	95	75-125
Molybdenum	20.00	19.10	96	75-125
Nickel	25.00	23.60	94	75-125
Selenium	50.00	46.90	94	75-125
Silver	10.00	9.800	98	75-125
Thallium	50.00	47.60	95	75-125
Vanadium	25.00	24.20	97	75-125
Zinc	25.00	22.15	89	75-125

Type: BSD Lab ID: QC274000

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	95.50	96	75-125	3	30
Arsenic	50.00	49.75	100	75-125	4	30
Barium	100.0	97.00	97	75-125	2	30
Beryllium	2.500	2.475	99	75-125	2	30
Cadmium	10.00	9.550	96	75-125	2	30
Chromium	100.0	97.50	98	75-125	2	30
Cobalt	25.00	24.15	97	75-125	2	30
Copper	12.50	12.60	101	75-125	2	30
Iron	1,000	997.5	100	75-125	2	30
Lead	100.0	96.00	96	75-125	1	30
Manganese	25.00	24.15	97	75-125	2	30
Molybdenum	20.00	19.75	99	75-125	3	30
Nickel	25.00	24.05	96	75-125	2	30
Selenium	50.00	47.70	95	75-125	2	30
Silver	10.00	9.950	100	75-125	2	30
Thallium	50.00	47.85	96	75-125	1	30
Vanadium	25.00	24.75	99	75-125	2	30
Zinc	25.00	22.50	90	75-125	2	30

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	96975
Field ID:	BB3EX153[0.5]	Sampled:	11/23/04
MSS Lab ID:	176248-003	Received:	11/23/04
Matrix:	Soil	Prepared:	11/30/04
Units:	mg/Kg	Analyzed:	11/30/04
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim
BS	QC274265		0.5000	0.5420	108	75-125	as received			
BSD	QC274266		0.5000	0.5500	110	75-125	as received		1	35
MS	QC274267	<0.003980	0.4906	0.5396	110	75-125	dry	2%		
MSD	QC274268		0.4475	0.4851	108	75-125	dry	2%	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX152[0.5]	Batch#:	96915
MSS Lab ID:	176248-005	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/28/04
Basis:	dry	Analyzed:	11/29/04
Diln Fac:	1.000		

Type: MS Moisture: 8%
Lab ID: QC274001

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.834	86.96	36.91	40 *	75-125
Arsenic	2.056	43.48	35.57	77	75-125
Barium	210.1	86.96	335.7	144 *	75-125
Beryllium	0.6431	2.174	2.370	79	75-125
Cadmium	0.1028	8.696	7.391	84	75-125
Chromium	12.55	86.96	80.43	78	75-125
Cobalt	18.98	21.74	34.78	73 *	75-125
Copper	116.4	10.87	127.8	105 NM	75-125
Iron	30,000	869.6	24,650 >LR	-616 NM	75-125
Lead	11.37	86.96	79.57	78	75-125
Manganese	2,182	21.74	1,873	-1420 NM	75-125
Molybdenum	0.4665	17.39	13.17	73 *	75-125
Nickel	16.67	21.74	35.00	84	75-125
Selenium	1.300	43.48	31.74	70 *	75-125
Silver	<0.08913	8.696	6.696	77	75-125
Thallium	<0.1957	43.48	33.35	77	75-125
Vanadium	36.46	21.74	50.00	62 *	75-125
Zinc	20.56	21.74	37.26	77	75-125

Type: MSD Moisture: 8%
Lab ID: QC274002

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	72.46	24.96	32 *	75-125	21	30
Arsenic	36.23	26.88	69 *	75-125	11	30
Barium	72.46	281.5	99	75-125	13	30
Beryllium	1.812	1.913	70 *	75-125	8	30
Cadmium	7.246	5.797	79	75-125	6	30
Chromium	72.46	63.41	70 *	75-125	8	30
Cobalt	18.12	30.62	64 *	75-125	3	30
Copper	9.058	112.3	-45 NM	75-125	11	30
Iron	724.6	21,300 >LR	-1201 NM	75-125	NC	30
Lead	72.46	63.04	71 *	75-125	7	30
Manganese	18.12	1,727	-2512 NM	75-125	8	30
Molybdenum	14.49	9.928	65 *	75-125	11	30
Nickel	18.12	28.44	65 *	75-125	11	30
Selenium	36.23	22.17	58 *	75-125	18	30
Silver	7.246	5.181	72 *	75-125	7	30
Thallium	36.23	26.09	72 *	75-125	6	30
Vanadium	18.12	43.84	41 *	75-125	7	30
Zinc	18.12	31.05	58 *	75-125	9	30

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX152[0.5]	Basis:	dry
Type:	Serial Dilution	Batch#:	96915
MSS Lab ID:	176248-005	Sampled:	11/23/04
Lab ID:	QC274003	Received:	11/23/04
Matrix:	Soil	Analyzed:	11/29/04
Units:	mg/Kg		

Moisture: 8%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Antimony	ND	2.717	ND	14		10	5.000
Arsenic	2.056	0.2264	1.7	1.1		10	5.000
Barium	210.1	0.4529	190	2.3	7	10	5.000
Beryllium	0.6431	0.09058	0.56	0.45	13 *	10	5.000
Cadmium	ND	0.2264	ND	1.1		10	5.000
Chromium	12.55	0.4529	12	2.3	1	10	5.000
Cobalt	18.98	0.9058	19	4.5	1	10	5.000
Copper	116.4	0.4529	110	2.3	6	10	5.000
Iron	30,000	22.64	30,000	110	1	10	25.00
Lead	11.37	0.1359	11	0.68	4	10	5.000
Manganese	2,182	2.264	2,100	11	2	10	25.00
Molybdenum	ND	0.9058	0.63 J	4.5		10	5.000
Nickel	16.67	0.9058	17	4.5	1	10	5.000
Selenium	1.300	0.2264	ND	1.1		10	5.000
Silver	ND	0.2264	ND	1.1		10	5.000
Thallium	ND	0.2264	ND	1.1		10	5.000
Vanadium	36.46	0.4529	36	2.3	2	10	5.000
Zinc	20.56	0.9058	21	4.5	1	10	5.000

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	dry
Field ID:	BB3EX153[0.5]	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	96975
MSS Lab ID:	176248-003	Sampled:	11/23/04
Lab ID:	QC274298	Received:	11/23/04
Matrix:	Soil	Analyzed:	11/30/04
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture %	Diff Lim
ND	0.02041	ND	0.10	2%	10

ND= Not Detected
RL= Reporting Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74481400011	Seqnum	: 74481400014
Filename	: tr256043	Filename	: tr256046
IDF	: 1.0	IDF	: 1.0
PDF	: 41.67	PDF	: 41.67
Run type	: MSS	Run type	: PDS
Samplenum	: 176248-005	Samplenum	: QC274004
Matrix	: Soil	Matrix	: Soil
Batchnum	: 96915	Batchnum	: 96915
Inj	: 29-NOV-2004 08:27	Inj	: 29-NOV-2004 08:54
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	40.50	2000	1560	76	16-120	u
Arsenic	45.40	1000	795.0	75	62-120	u
Barium	4640	2000	5910	64	51-137	u
Beryllium	14.20	50	51.90	75	70-120	u
Cadmium	2.270	200	146.0	72	61-120	u
Calcium	11840	20000	27740	80	40-149	
Chromium	277.0	2000	1760	74	60-120	u
Cobalt	419.0	500	783.0	73	56-120	u
Copper	2570	250	2700	52	47-144	: u
Iron	*** usable MSS data not found ***					
Lead	251.0	2000	1740	74	47-126	u
Magnesium	18090	20000	34130	80	44-152	
Manganese	*** usable MSS data not found ***					
Molybdenum	10.30	400	311.0	75	57-120	u
Nickel	368.0	500	713.0	69	41-138	u
Selenium	28.70	1000	785.0	76	35-122	u
Silver	ND	200	146.0	73	71-120	u
Thallium	ND	1000	696.0	70	53-120	u
Vanadium	805.0	500	1160	71	48-136	u
Zinc	454.0	500	788.0	67	38-144	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use
Page 1 of 1

Method: 6010B Standard: blank
Run Time: 11/29/04 07:11:29

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.006	.007	.001	.001	-.411	.009	.000
SDev	.002	.002	.001	.001	.004	.001	.001
%RSD	36.1	28.9	89.4	101.	.923	8.12	129.
#1	-.008	.009	.000	.002	-.408	.010	.000
#2	-.005	.006	.001	.000	-.414	.009	.001

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.016	.006	.002	-.001	.005	-.006
SDev	.000	.001	.001	.002	.001	.000	.003
%RSD	49.5	7.85	10.0	103.	114.	5.71	44.6
#1	-.001	.016	.005	.001	-.002	.005	-.004
#2	-.001	.017	.006	.003	-.000	.005	-.007

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	-.000	-.006	.000	.046	.0646	.0004
SDev	.001	.000	.001	.000	.000	.0000	.0001
%RSD	6.89	106.	9.87	92.1	.393	.0215	22.53
#1	.007	-.001	-.006	.001	.046	.0646	.0003
#2	.007	-.000	-.006	.000	.046	.0646	.0005

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0003	.0003	.004	.391
SDev	.0002	.0002	.002	.001
%RSD	70.86	76.29	50.1	.329
#1	-.0002	.0001	.005	.390
#2	-.0005	.0004	.002	.392

Method: 6010B Standard: cst hi
Run Time: 11/29/04 07:16:06

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.01	.567	.221	16.0	3.34	1.06	.245
SDev	.01	.001	.001	.0	.00	.00	.000
%RSD	.507	.247	.566	.086	.021	.155	.000
#1	1.02	.568	.220	16.0	3.34	1.06	.245
#2	1.01	.566	.222	16.0	3.34	1.06	.245

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.710	.562	.791	.761	1.71	1.88	.237
SDev	.000	.001	.000	.001	.01	.00	.004
%RSD	.050	.131	.041	.145	.574	.065	1.91
#1	.711	.563	.791	.761	1.70	1.88	.240
#2	.710	.562	.791	.760	1.71	1.87	.233

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.272	.311	.141	.930	.200	.1810	.3566
SDev	.001	.002	.001	.001	.000	.0004	.0014
%RSD	.198	.490	.403	.141	.209	.2143	.4017
#1	.272	.312	.140	.929	.200	.1808	.3556
#2	.271	.309	.141	.931	.200	.1813	.3576

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1262	.1868	1.16	7.44
SDev	.0002	.0013	.00	.00
%RSD	.1419	.6710	.134	.049
#1	.1261	.1859	1.16	7.44
#2	.1263	.1877	1.16	7.45

Standardization Report 11/29/04 07:19:53 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	976.237	6.08548	11/29/04 07:16:06
Sb206A	206.832	Multiple	Standards	1750.53	-12.3848	11/29/04 07:16:06
As1890	189.042	Multiple	Standards	2270.06	-1.77109	11/29/04 07:16:06
Ba4934	493.409	Multiple	Standards	62.3500	-.062606	11/29/04 07:16:06
Be3130	313.042	Multiple	Standards	25.7509	10.5804	11/29/04 07:16:06
Cd2265	226.502	Multiple	Standards	95.1893	-.862978	11/29/04 07:16:06
Cr2677	267.716	Multiple	Standards	818.675	-.386754	11/29/04 07:16:06
Co2286	228.616	Multiple	Standards	704.735	.621925	11/29/04 07:16:06
Cu3247	324.754	Multiple	Standards	366.482	-6.02582	11/29/04 07:16:06
Pb2203	220.351	Multiple	Standards	637.130	-3.56829	11/29/04 07:16:06
Pb220A	220.352	Multiple	Standards	653.363	-1.27455	11/29/04 07:16:06
Mo2020	202.030	Multiple	Standards	585.959	.756360	11/29/04 07:16:06
Ni2316	231.604	Multiple	Standards	267.167	-1.26603	11/29/04 07:16:06
Se1960	196.021	Multiple	Standards	2065.47	11.6143	11/29/04 07:16:06
Se196A	196.022	Multiple	Standards	1885.46	-13.1103	11/29/04 07:16:06
Ag3280	328.068	Multiple	Standards	322.022	.105576	11/29/04 07:16:06
Tl1908	190.864	Multiple	Standards	3436.61	20.7938	11/29/04 07:16:06
V_2924	292.402	Multiple	Standards	537.835	-.253511	11/29/04 07:16:06
Zn2138	213.856	Multiple	Standards	669.677	-30.6748	11/29/04 07:16:06
Al3082	308.215	Multiple	Standards	8747.58	-565.049	11/29/04 07:16:06
Ca3179	317.933	Multiple	Standards	5614.34	-2.18865	11/29/04 07:16:06
Fe2714	271.441	Multiple	Standards	8272.75	2.71711	11/29/04 07:16:06
Mg2790	279.079	Multiple	Standards	10716.2	-2.85986	11/29/04 07:16:06
Mn2576	257.610	Multiple	Standards	86.4096	-.318889	11/29/04 07:16:06
Pb sum	220.353	NONE	NONE	1.00000	.000000	*11/29/04 07:16:06
Sb sum	206.838	NONE	NONE	1.00000	.000000	*11/29/04 07:16:06
Se sum	196.026	NONE	NONE	1.00000	.000000	*11/29/04 07:16:06
Ti3349	334.941	Multiple	Standards	141.775	-55.3929	11/29/04 07:16:06

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74481400001

Run Name :
Filename : tr256033.

Injected : 29-NOV-2004 07:20
Caltype :

Standards: 04WS1891

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	979.3000	ug/L	-2	5	
Antimony	1000.000	993.0000	ug/L	-1	5	
Arsenic	500.0000	495.0000	ug/L	-1	5	
Barium	1000.000	986.0000	ug/L	-1	5	
Beryllium	100.0000	99.50000	ug/L	-1	5	
Cadmium	100.0000	99.50000	ug/L	-1	5	
Calcium	2000.000	1987.000	ug/L	-1	5	
Chromium	200.0000	198.0000	ug/L	-1	5	
Cobalt	500.0000	497.0000	ug/L	-1	5	
Copper	200.0000	198.0000	ug/L	-1	5	
Iron	1000.000	996.2000	ug/L	0	5	
Lead	500.0000	500.0000	ug/L	0	5	
Magnesium	2000.000	1983.000	ug/L	-1	5	
Manganese	100.0000	99.50000	ug/L	-1	5	
Molybdenum	1000.000	987.0000	ug/L	-1	5	
Nickel	500.0000	496.0000	ug/L	-1	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	99.80000	ug/L	0	5	
Thallium	500.0000	485.0000	ug/L	-3	5	
Titanium	1000.000	991.0000	ug/L	-1	5	
Vanadium	500.0000	497.0000	ug/L	-1	5	
Zinc	100.0000	99.00000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74481400002

Run Name :
Filename : tr256034

Injected : 29-NOV-2004 07:23
Caltype :

Standards: 04WS2066

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	500.0000	496.1000	ug/L	-1	10
Antimony	500.0000	503.0000	ug/L	1	10
Arsenic	250.0000	255.0000	ug/L	2	10
Barium	500.0000	498.0000	ug/L	0	10
Beryllium	50.00000	50.30000	ug/L	1	10
Cadmium	50.00000	51.30000	ug/L	3	10
Calcium	1000.000	1025.000	ug/L	3	10
Chromium	100.0000	101.0000	ug/L	1	10
Cobalt	250.0000	248.0000	ug/L	-1	10
Copper	100.0000	101.0000	ug/L	1	10
Iron	500.0000	527.8000	ug/L	6	10
Lead	250.0000	254.0000	ug/L	2	10
Magnesium	1000.000	1043.000	ug/L	4	10
Manganese	50.00000	49.70000	ug/L	-1	10
Molybdenum	500.0000	515.0000	ug/L	3	10
Nickel	250.0000	252.0000	ug/L	1	10
Selenium	250.0000	249.0000	ug/L	0	10
Silver	50.00000	52.90000	ug/L	6	10
Thallium	250.0000	247.0000	ug/L	-1	10
Titanium	500.0000	516.0000	ug/L	3	10
Vanadium	250.0000	251.0000	ug/L	0	10
Zinc	50.00000	49.00000	ug/L	-2	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74481400004
Run Name :
Filename : tr256036
Injected : 29-NOV-2004 07:38
Caltype :

Standards: 04WS1931

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	115.4000	ug/L	15	50	
Antimony	60.00000	56.30000	ug/L	-6	50	
Arsenic	5.000000	6.980000	ug/L	40	50	
Barium	10.00000	9.770000	ug/L	-2	50	
Beryllium	2.000000	1.870000	ug/L	-7	50	
Cadmium	5.000000	4.810000	ug/L	-4	50	
Calcium	200.0000	220.5000	ug/L	10	50	
Chromium	10.00000	9.950000	ug/L	-1	50	
Cobalt	20.00000	19.40000	ug/L	-3	50	
Copper	10.00000	10.80000	ug/L	8	50	
Iron	100.0000	94.94000	ug/L	-5	50	
Lead	3.000000	3.440000	ug/L	15	50	
Magnesium	200.0000	207.6000	ug/L	4	50	
Manganese	10.00000	9.740000	ug/L	-3	50	
Molybdenum	20.00000	20.70000	ug/L	4	50	
Nickel	20.00000	18.80000	ug/L	-6	50	
Selenium	5.000000	7.270000	ug/L	45	50	
Silver	5.000000	4.600000	ug/L	-8	50	
Thallium	5.000000	3.120000	ug/L	-38	50	
Vanadium	10.00000	10.30000	ug/L	3	50	
Zinc	20.00000	21.50000	ug/L	8	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74481400015

Run Name :
Filename : tr256047

IDF : 1.0
Injected : 29-NOV-2004 09:10
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	456.2000	ug/L	-9	10	
Antimony		500.0000	493.0000	ug/L	-1	10	
Arsenic		250.0000	244.0000	ug/L	-2	10	
Barium		500.0000	485.0000	ug/L	-3	10	
Beryllium		50.00000	48.30000	ug/L	-3	10	
Cadmium		50.00000	49.00000	ug/L	-2	10	
Calcium		1000.000	986.1000	ug/L	-1	10	
Chromium		100.0000	98.10000	ug/L	-2	10	
Cobalt		250.0000	240.0000	ug/L	-4	10	
Copper		100.0000	98.80000	ug/L	-1	10	
Iron		500.0000	493.7000	ug/L	-1	10	
Lead		250.0000	243.0000	ug/L	-3	10	
Magnesium		1000.000	988.4000	ug/L	-1	10	
Manganese		50.00000	48.20000	ug/L	-4	10	
Molybdenum		500.0000	496.0000	ug/L	-1	10	
Nickel		250.0000	244.0000	ug/L	-2	10	
Selenium		250.0000	245.0000	ug/L	-2	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	503.0000	ug/L	1	10	
Vanadium		250.0000	243.0000	ug/L	-3	10	
Zinc		50.00000	48.70000	ug/L	-3	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74481400027
Run Name :
Filename : tr256059
IDF : 1.0
Injected : 29-NOV-2004 10:08
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	750.4000	ug/L	0	10	
Antimony		750.0000	749.0000	ug/L	0	10	
Arsenic		375.0000	375.0000	ug/L	0	10	
Barium		750.0000	735.0000	ug/L	-2	10	
Beryllium		75.00000	74.90000	ug/L	0	10	
Cadmium		75.00000	75.10000	ug/L	0	10	
Calcium		1500.000	1542.000	ug/L	3	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	749.6000	ug/L	0	10	
Lead		375.0000	372.0000	ug/L	-1	10	
Magnesium		1500.000	1589.000	ug/L	6	10	
Manganese		75.00000	72.20000	ug/L	-4	10	
Molybdenum		750.0000	748.0000	ug/L	0	10	
Nickel		375.0000	375.0000	ug/L	0	10	
Selenium		375.0000	372.0000	ug/L	-1	10	
Silver		75.00000	75.00000	ug/L	0	10	
Thallium		375.0000	361.0000	ug/L	-4	10	
Titanium		750.0000	772.0000	ug/L	3	10	
Vanadium		375.0000	374.0000	ug/L	0	10	
Zinc		75.00000	73.20000	ug/L	-2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74481400039
Run Name :
Filename : tr256071
IDF : 1.0
Injected : 29-NOV-2004 11:13
Caltype :

Standards: 04WS2067

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	629.3000	ug/L	**26**	10	c+ **
Antimony		500.0000	502.0000	ug/L	0	10	
Arsenic		250.0000	255.0000	ug/L	2	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	50.30000	ug/L	1	10	
Cadmium		50.00000	51.10000	ug/L	2	10	
Calcium		1000.000	1101.000	ug/L	10	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	249.0000	ug/L	0	10	
Copper		100.0000	99.50000	ug/L	-1	10	
Iron		500.0000	576.7000	ug/L	**15**	10	c+ **
Lead		250.0000	250.0000	ug/L	0	10	
Magnesium		1000.000	1121.000	ug/L	**12**	10	c+ **
Manganese		50.00000	49.30000	ug/L	-1	10	
Molybdenum		500.0000	503.0000	ug/L	1	10	
Nickel		250.0000	255.0000	ug/L	2	10	
Selenium		250.0000	257.0000	ug/L	3	10	
Silver		50.00000	51.00000	ug/L	2	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	524.0000	ug/L	5	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	52.00000	ug/L	4	10	

+=high bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74481400003 Run Name: Injected: 29-NOV-2004 07:31
Filename: tr256035 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.9400]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.3100]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74481400016 Run Name: Injected: 29-NOV-2004 09:14
Filename: tr256048 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	[0.5070]	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[21.910]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.1700]	10.00000	ug/L	<RL
Iron	[27.320]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	[1.4000]	10.00000	ug/L	<RL
Molybdenum	[4.7700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[8.0000]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74481400028 Run Name: Injected: 29-NOV-2004 10:16
Filename: tr256060 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[33.360]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.4500]	10.00000	ug/L	<RL
Iron	[24.100]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[26.280]	500.0000	ug/L	<RL
Manganese	[0.5160]	10.00000	ug/L	<RL
Molybdenum	[3.7300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[9.6600]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	[4.8700]	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74481400040 Run Name:
Filename: tr256072 Run Type: CCB

Injected: 29-NOV-2004 11:23

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[38.180]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[20.040]	100.0000	ug/L	<RL
Lead	[1.6900]	3.000000	ug/L	<RL
Magnesium	[29.900]	500.0000	ug/L	<RL
Manganese	[0.4510]	10.00000	ug/L	<RL
Molybdenum	[2.2300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[4.7700]	5.000000	ug/L	<RL
Titanium	[9.4200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74481400005 Run Name: Injected: 29-NOV-2004 07:51
Filename: tr256037 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	[-2.020]	60.00000	ug/L	<RL
Arsenic	-5.20000	5.000000	ug/L	<RL
Barium	[-0.034]	10.00000	ug/L	<RL
Beryllium	[-0.777]	2.000000	ug/L	<RL
Cadmium	[1.5300]	5.000000	ug/L	<RL
Chromium	[3.3800]	10.00000	ug/L	<RL
Cobalt	[0.6930]	10.00000	ug/L	<RL
Copper	[-1.310]	10.00000	ug/L	<RL
Lead	[-1.470]	3.000000	ug/L	<RL
Manganese	[1.8800]	10.00000	ug/L	<RL
Molybdenum	[0.8220]	20.00000	ug/L	<RL
Nickel	[2.2700]	20.00000	ug/L	<RL
Selenium	[4.5900]	5.000000	ug/L	<RL
Silver	[-0.236]	5.000000	ug/L	<RL
Thallium	-8.14000	5.000000	ug/L	<RL
Titanium	31.60000	10.00000	ug/L	<RL a+ ***
Vanadium	[-2.050]	10.00000	ug/L	<RL
Zinc	[1.1600]	20.00000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	524300	ug/L	105
Calcium	500000	479900.	ug/L	96
Iron	200000	185400	ug/L	93
Magnesium	500000	539400	ug/L	108

+=high bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74481400006

Run Name :
Filename : tr256038

Injected : 29-NOV-2004 07:58
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	513200.0	ug/L	3		
Antimony	500.0000	528.0000	ug/L	6	20	
Arsenic	500.0000	528.0000	ug/L	6	20	
Barium	500.0000	482.0000	ug/L	-4	20	
Beryllium	500.0000	496.0000	ug/L	-1	20	
Cadmium	1000.000	946.0000	ug/L	-5	20	
Calcium	500000.0	473200.0	ug/L	-5		
Chromium	500.0000	484.0000	ug/L	-3	20	
Cobalt	500.0000	491.0000	ug/L	-2	20	
Copper	500.0000	512.0000	ug/L	2	20	
Iron	200000.0	182000.0	ug/L	-9		
Lead	1000.000	995.0000	ug/L	-1	20	
Magnesium	500000.0	530200.0	ug/L	6		
Manganese	500.0000	480.0000	ug/L	-4	20	
Molybdenum	500.0000	501.0000	ug/L	0	20	
Nickel	1000.000	923.0000	ug/L	-8	20	
Selenium	500.0000	534.0000	ug/L	7	20	
Silver	1000.000	968.0000	ug/L	-3	20	
Thallium	500.0000	482.0000	ug/L	-4	20	
Titanium	20000.00	20900.00	ug/L	5		
Vanadium	500.0000	489.0000	ug/L	-2	20	
Zinc	1000.000	963.0000	ug/L	-4	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74481400038 Filename : tr256070 Injected : 29-NOV-2004 11:09
Caltype :

Standards: 04WS1841

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	512300.0	ug/L	2		
Antimony	500.0000	511.0000	ug/L	2	20	
Arsenic	500.0000	512.0000	ug/L	2	20	
Barium	500.0000	485.0000	ug/L	-3	20	
Beryllium	500.0000	476.0000	ug/L	-5	20	
Cadmium	1000.000	919.0000	ug/L	-8	20	
Calcium	500000.0	442600.0	ug/L	-11		
Chromium	500.0000	469.0000	ug/L	-6	20	
Cobalt	500.0000	471.0000	ug/L	-6	20	
Copper	500.0000	490.0000	ug/L	-2	20	
Iron	200000.0	166500.0	ug/L	-17		
Lead	1000.000	953.0000	ug/L	-5	20	
Magnesium	500000.0	510900.0	ug/L	2		
Manganese	500.0000	446.0000	ug/L	-11	20	
Molybdenum	500.0000	479.0000	ug/L	-4	20	
Nickel	1000.000	898.0000	ug/L	-10	20	
Selenium	500.0000	514.0000	ug/L	3	20	
Silver	1000.000	925.0000	ug/L	-8	20	
Thallium	500.0000	495.0000	ug/L	-1	20	
Titanium	20000.00	20300.00	ug/L	2		
Vanadium	500.0000	468.0000	ug/L	-6	20	
Zinc	1000.000	910.0000	ug/L	-9	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74481400 Instrument: MET07 TJA Trace ICP Begun: 29-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr256033	CS				29-NOV-2004 07:20	1.0	1.0			1	
002	tr256034	ICV				29-NOV-2004 07:23	1.0	1.0			2	
003	tr256035	ICB				29-NOV-2004 07:31	1.0	1.0				
004	tr256036	CRI				29-NOV-2004 07:38	1.0	1.0			3	
005	tr256037	ICSA				29-NOV-2004 07:51	1.0	1.0	1		4	4:MG=539400
006	tr256038	ICSAB				29-NOV-2004 07:58	1.0	1.0			5	5:MG=530200
007	tr256039	BLANK	QC273998	96915	Soil	29-NOV-2004 08:10	1.0	50.0	2			
008	tr256040	BLANK	QC273998	96915	Soil	29-NOV-2004 08:13	1.0	50.0	1			
009	tr256041	BS	QC273999	96915	Soil	29-NOV-2004 08:18	1.0	50.0	1			
010	tr256042	BSD	QC274000	96915	Soil	29-NOV-2004 08:22	1.0	50.0	1			
011	tr256043	MSS	176248-005	96915	Soil	29-NOV-2004 08:27	1.0	41.67	4			4:FE=632900
012	tr256044	SER	QC274003	96915	Soil	29-NOV-2004 08:41	5.0	41.67		1		1:FE=122600
013	tr256045	SER	QC274003	96915	Soil	29-NOV-2004 08:46	5.0	41.67		4		1:FE=137100
014	tr256046	PDS	QC274004	96915	Soil	29-NOV-2004 08:54	1.0	41.67			6 7	4:FE=633500
015	tr256047	CCV				29-NOV-2004 09:10	1.0	1.0			8	
016	tr256048	CCB				29-NOV-2004 09:14	1.0	1.0				
017	tr256049	MS	QC274001	96915	Soil	29-NOV-2004 09:18	1.0	40.0		1		4:FE=594000
018	tr256050	MSD	QC274002	96915	Soil	29-NOV-2004 09:23	1.0	33.33		1		4:FE=616400
019	tr256051	SAMPLE	176248-001	96915	Soil	29-NOV-2004 09:28	1.0	40.98	1			2:FE=236800
020	tr256052	SAMPLE	176248-002	96915	Soil	29-NOV-2004 09:32	1.0	42.02	1			1:FE=233700
021	tr256053	SAMPLE	176248-003	96915	Soil	29-NOV-2004 09:36	1.0	36.23	1			3:FE=279400
022	tr256054	SAMPLE	176248-004	96915	Soil	29-NOV-2004 09:40	1.0	39.37	2			3:FE=493300
023	tr256055	SAMPLE	176273-001	96915	Soil	29-NOV-2004 09:44	1.0	35.46				5:FE=486400
024	tr256056	SAMPLE	176168-005	96915	Soil	29-NOV-2004 09:48	1.0	47.17	1			5:MG=734400
025	tr256057	SAMPLE	176168-006	96915	Soil	29-NOV-2004 09:53	1.0	52.63				2:FE=136900
026	tr256058	SAMPLE	176168-007	96915	Soil	29-NOV-2004 09:57	1.0	53.76				5:MG=859500
027	tr256059	CCV				29-NOV-2004 10:08	1.0	1.0			9	
028	tr256060	CCB				29-NOV-2004 10:16	1.0	1.0				
029	tr256061	SAMPLE	176168-008	96915	Soil	29-NOV-2004 10:20	1.0	40.32	1			3:MG=4040000
030	tr256062	SAMPLE	176168-008	96915	Soil	29-NOV-2004 10:24	1.0	40.32	1			3:MG=4040000
031	tr256063	SAMPLE	176168-009	96915	Soil	29-NOV-2004 10:29	1.0	44.64	1			5:MG=1531000

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007

Analyst: Date: 11/29/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74481400 Instrument: MET07 TJA Trace ICP Begun: 29-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr256064	SAMPLE	176153-001	96823	Soil	29-NOV-2004 10:36	1.0	42.37			2:AL=337500
033	tr256065	SAMPLE	176153-002	96823	Soil	29-NOV-2004 10:45	1.0	43.86			3:FE=332400
034	tr256066	SAMPLE	176153-003	96823	Soil	29-NOV-2004 10:49	1.0	40.98	1		2:FE=270100
035	tr256067	SAMPLE	176153-004	96823	Soil	29-NOV-2004 10:54	1.0	45.87			3:FE=370400
036	tr256068	SAMPLE	176153-005	96823	Soil	29-NOV-2004 10:58	1.0	42.02			2:CA=574000
037	tr256069	SAMPLE	176153-003	96823	Soil	29-NOV-2004 11:04	1.0	40.98			2:FE=267400
038	tr256070	ICSAB				29-NOV-2004 11:09	1.0	1.0		5	5:AL=512300
039	tr256071	CCV				29-NOV-2004 11:13	1.0	1.0	3	8	
040	tr256072	CCB				29-NOV-2004 11:23	1.0	1.0			

37

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007

Analyst: _____ Date: 11/29/04

Method: 6010B Standard: blank
Run Time: 11/29/04 08:11:55

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.0007	.0057	.0001	.0006	-.0003	.0010	-.0000
SDev	.0002	.0018	.0002	.0000	.0012	.0010	.0008
%RSD	27.44	31.80	141.4	.8763	431.4	101.4	22820.
#1	.0006	.0045	.0003	.0006	.0006	.0018	-.0006
#2	.0009	.0070	.0000	.0006	-.0012	.0003	.0006

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0009	.0006	.0005	.0013	-.0001	-.0004	.0000
SDev	.0004	.0013	.0023	.0019	.0006	.0002	.0017
%RSD	47.92	213.2	507.9	141.4	431.4	46.36	22820.
#1	.0012	-.0003	.0021	.0027	.0003	-.0003	.0012
#2	.0006	.0015	-.0012	.0000	-.0006	-.0006	-.0012

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0003	.0006	.0024	.1908	.0019	-.0022	.0001
SDev	.0004	.0008	.0000	.0048	.0002	.0002	.0002
%RSD	141.4	141.4	.8763	2.517	11.75	8.555	141.4
#1	.0000	.0012	.0024	.1942	.0021	-.0021	.0000
#2	-.0006	.0000	.0023	.1874	.0018	-.0023	.0003

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782
Avge	.0226	.0183	.0003	.0145	-.0003	.0004
SDev	.0104	.0007	.0013	.0005	.0004	.0006
%RSD	46.08	3.686	431.4	3.762	141.4	141.4
#1	.0300	.0178	-.0006	.0148	.0000	.0000
#2	.0152	.0188	.0012	.0141	-.0006	.0009

Method: 6010B Standard: cs hi
Run Time: 11/29/04 08:21:06

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.5681	1.302	9.591	.3153	4.123	1.238	.8937
SDev	.0082	.032	.162	.0047	.090	.016	.0135
%RSD	1.445	2.440	1.694	1.503	2.183	1.288	1.511
#1	.5623	1.280	9.476	.3120	4.059	1.227	.8842
#2	.5739	1.325	9.706	.3187	4.186	1.250	.9033

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.022	.3693	2.454	2.151	.5549	.1852	.6175
SDev	.019	.0065	.062	.038	.0118	.0042	.0222
%RSD	1.839	1.765	2.523	1.767	2.120	2.269	3.592
#1	1.009	.3647	2.410	2.124	.5466	.1822	.6019
#2	1.035	.3739	2.498	2.178	.5632	.1881	.6332

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.8103	2.193	2.909	56.18	4.254	7.728	1.651
SDev	.0149	.053	.047	1.03	.158	.141	.031
%RSD	1.833	2.395	1.607	1.839	3.716	1.820	1.888
#1	.7998	2.155	2.876	55.45	4.143	7.629	1.629
#2	.8208	2.230	2.942	56.91	4.366	7.828	1.673

Elem	K_7664	Na5889
Avge	.6480	5.759
SDev	.0224	.079
%RSD	3.456	1.375
#1	.6321	5.703
#2	.6638	5.815

Method: 6010B Standard: STD4
Run Time: 11/29/04 08:23:15

Elem	Sn1899	B_2496	Ti3349	P_1782	S_1820	Si2881
Avge	3.249	1.784	9.464	-.0007	.0407	.2863
SDev	.018	.015	.017	.0002	.0018	.0064
%RSD	.5595	.8134	.1759	26.63	4.526	2.234
#1	3.236	1.794	9.476	-.0006	.0394	.2908
#2	3.262	1.774	9.453	-.0009	.0420	.2817

Standardization Report 11/29/04 08:26:01 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	17697.2	-13.0392	11/29/04 08:21:06
As1890	189.042	Multiple	Standards	7711.85	-44.3116	11/29/04 08:21:06
Ba4934	493.409	Multiple	Standards	2085.32	-.309579	11/29/04 08:21:06
Be3130	313.042	Multiple	Standards	1643.77	-.970097	11/29/04 08:21:06
Cd2288	228.802	Multiple	Standards	2426.26	.702641	11/29/04 08:21:06
Cr2677	267.716	Multiple	Standards	1613.88	-1.67418	11/29/04 08:21:06
Co2286	228.616	Multiple	Standards	5630.13	.020589	11/29/04 08:21:06
Cu3247	324.754	Multiple	Standards	2451.79	-2.17493	11/29/04 08:21:06
Pb2203	220.353	Multiple	Standards	27185.1	-15.8946	11/29/04 08:21:06
Mo2020	202.030	Multiple	Standards	4075.41	-1.84487	11/29/04 08:21:06
Ni2316	231.604	Multiple	Standards	2325.44	-3.10703	11/29/04 08:21:06
Se1960	196.026	Multiple	Standards	17995.9	2.60579	11/29/04 08:21:06
Ag3280	328.068	Multiple	Standards	5267.37	2.32666	11/29/04 08:21:06
Tl1908	190.864	Multiple	Standards	16199.7	-.118484	11/29/04 08:21:06
V_2924	292.402	Multiple	Standards	6053.89	1.77534	11/29/04 08:21:06
Zn2138	213.856	Multiple	Standards	2274.15	-1.35044	11/29/04 08:21:06
Al3961	396.153	Multiple	Standards	6881.31	-16.2445	11/29/04 08:21:06
Ca3179	317.933	Multiple	Standards	893.029	-170.377	11/29/04 08:21:06
Fe2599	259.940	Multiple	Standards	2351.57	-4.51257	11/29/04 08:21:06
Mg2790	279.079	Multiple	Standards	6438.36	14.2430	11/29/04 08:21:06
Mn2576	257.610	Multiple	Standards	3030.08	-.444294	11/29/04 08:21:06
K_7664	766.491	Multiple	Standards	79955.8	-1808.50	11/29/04 08:21:06
Na5889	588.995	Multiple	Standards	8709.52	-159.310	11/29/04 08:21:06
Sn1899	189.989	STD4	blank	3088.05	-.894294	11/29/04 08:23:15
B_2496	249,678	STD4	blank	5650.68	-81.7141	11/29/04 08:23:15
Ti3349	334.941	STD4	blank	1056.57	.309845	11/29/04 08:23:15
P_1782	178.287	STD4	blank	19e6	10191.4	*11/29/04 08:23:15
S_1820	182.040	STD4	STD1-Blank	118.671	-8.71043	*11/29/04 08:23:15
Si2881	288.158	STD4	STD1-Blank	1572030.	-440010.	11/29/04 08:23:15

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467001

Run Name :
Filename : icp180277

Injected : 29-NOV-2004 08:27
Caltype :

Standards: 04WS1970

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	20000.00	20360.00	ug/L	2	5	
Antimony	10000.00	10240.00	ug/L	2	5	
Arsenic	10000.00	10330.00	ug/L	3	5	
Barium	20000.00	20640.00	ug/L	3	5	
Beryllium	500.0000	518.8000	ug/L	4	5	
Cadmium	10000.00	10180.00	ug/L	2	5	
Calcium	50000.00	51300.00	ug/L	3	5	
Chromium	2000.000	2049.000	ug/L	2	5	
Cobalt	5000.000	5110.000	ug/L	2	5	
Copper	2500.000	2579.000	ug/L	3	5	
Iron	10000.00	10270.00	ug/L	3	5	
Lead	10000.00	10170.00	ug/L	2	5	
Magnesium	50000.00	50890.00	ug/L	2	5	
Manganese	5000.000	5123.000	ug/L	2	5	
Molybdenum	10000.00	10320.00	ug/L	3	5	
Nickel	5000.000	5145.000	ug/L	3	5	
Potassium	50000.00	50750.00	ug/L	2	5	
Selenium	10000.00	10260.00	ug/L	3	5	
Silver	1000.000	1012.000	ug/L	1	5	
Sodium	50000.00	51160.00	ug/L	2	5	
Thallium	10000.00	10450.00	ug/L	5	5	
Vanadium	5000.000	5135.000	ug/L	3	5	
Zinc	5000.000	5122.000	ug/L	2	5	

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467002

Run Name :
Filename : icp180278

Injected : 29-NOV-2004 08:30
Caltype :

Standards: 04WS2038

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Boron	10000.00	10090.00	ug/L	1	5	
Phosphorus	10000.00	15770.00	ug/L	58	5	cs+ ***
Silicon	10000.00	119.8000	ug/L	-99	5	cs- ***
Tin	10000.00	10120.00	ug/L	1	5	
Titanium	10000.00	10070.00	ug/L	1	5	

+=high bias -=low bias
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467003

Run Name :
Filename : icp180279

Injected : 29-NOV-2004 08:35
Caltype :

Standards: 04WS1780

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	1000.000	1069.000	ug/L	7	10
Antimony	2000.000	2056.000	ug/L	3	10
Arsenic	2000.000	2043.000	ug/L	2	10
Barium	1000.000	1061.000	ug/L	6	10
Beryllium	2000.000	1999.000	ug/L	0	10
Boron	1000.000	1040.000	ug/L	4	10
Cadmium	2000.000	2065.000	ug/L	3	10
Calcium	2000.000	2063.000	ug/L	3	10
Chromium	2000.000	2064.000	ug/L	3	10
Cobalt	2000.000	2082.000	ug/L	4	10
Copper	2000.000	2063.000	ug/L	3	10
Iron	2000.000	2095.000	ug/L	5	10
Lead	2000.000	2079.000	ug/L	4	10
Magnesium	2000.000	2049.000	ug/L	2	10
Manganese	2000.000	2080.000	ug/L	4	10
Molybdenum	2000.000	2074.000	ug/L	4	10
Nickel	2000.000	2079.000	ug/L	4	10
Potassium	10000.00	10560.00	ug/L	6	10
Selenium	2000.000	2014.000	ug/L	1	10
Silver	1000.000	1068.000	ug/L	7	10
Sodium	10000.00	10030.00	ug/L	0	10
Thallium	2000.000	2156.000	ug/L	8	10
Tin	2000.000	1952.000	ug/L	-2	10
Titanium	2000.000	2007.000	ug/L	0	10
Vanadium	2000.000	2034.000	ug/L	2	10
Zinc	2000.000	2043.000	ug/L	2	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467005
Run Name :
Filename : icp180281
Injected : 29-NOV-2004 09:01
Caltype :

Standards: 04WS2161

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	94.08000	ug/L	-6	50	
Antimony	60.00000	41.01000	ug/L	-32	50	
Arsenic	500.0000	483.0000	ug/L	-3	50	
Barium	10.00000	9.981000	ug/L	0	50	
Beryllium	2.000000	1.686000	ug/L	-16	50	
Boron	100.0000	93.87000	ug/L	-6	50	
Cadmium	5.000000	5.992000	ug/L	20	50	
Calcium	500.0000	509.7000	ug/L	2	50	
Chromium	10.00000	10.75000	ug/L	8	50	
Cobalt	20.00000	22.36000	ug/L	12	50	
Copper	10.00000	9.979000	ug/L	0	50	
Iron	100.0000	111.6000	ug/L	12	50	
Lead	300.0000	311.3000	ug/L	4	50	
Magnesium	500.0000	515.6000	ug/L	3	50	
Manganese	10.00000	10.38000	ug/L	4	50	
Molybdenum	20.00000	21.75000	ug/L	9	50	
Nickel	20.00000	20.46000	ug/L	2	50	
Phosphorus	100.0000	-6137.00	ug/L	**-6237**	50	cri- ***
Potassium	500.0000	300.7000	ug/L	-40	50	
Selenium	500.0000	503.1000	ug/L	1	50	
Silver	5.000000	7.398000	ug/L	48	50	
Sodium	500.0000	505.6000	ug/L	1	50	
Thallium	500.0000	487.6000	ug/L	-2	50	
Tin	40.00000	39.87000	ug/L	0	50	
Titanium	10.00000	9.815000	ug/L	-2	50	
Vanadium	10.00000	10.22000	ug/L	2	50	
Zinc	20.00000	23.15000	ug/L	16	50	

-=low bias
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467014

Run Name :
Filename : icp180290

IDF : 1.0
Injected : 29-NOV-2004 09:33
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1040.000	ug/L	4	10	
Antimony		2000.000	1977.000	ug/L	-1	10	
Arsenic		2000.000	2116.000	ug/L	6	10	
Barium		1000.000	1061.000	ug/L	6	10	
Beryllium		2000.000	2048.000	ug/L	2	10	
Boron		1000.000	1129.000	ug/L	**13**	10	c+ **
Cadmium		2000.000	2062.000	ug/L	3	10	
Calcium		2000.000	2067.000	ug/L	3	10	
Chromium		2000.000	2019.000	ug/L	1	10	
Cobalt		2000.000	2056.000	ug/L	3	10	
Copper		2000.000	2064.000	ug/L	3	10	
Iron		2000.000	1980.000	ug/L	-1	10	
Lead		2000.000	2030.000	ug/L	2	10	
Magnesium		2000.000	2021.000	ug/L	1	10	
Manganese		2000.000	2065.000	ug/L	3	10	
Molybdenum		2000.000	2060.000	ug/L	3	10	
Nickel		2000.000	2123.000	ug/L	6	10	
Potassium		10000.00	10220.00	ug/L	2	10	
Selenium		2000.000	1988.000	ug/L	-1	10	
Silver		1000.000	1059.000	ug/L	6	10	
Sodium		10000.00	10410.00	ug/L	4	10	
Thallium		2000.000	2102.000	ug/L	5	10	
Tin		2000.000	1968.000	ug/L	-2	10	
Titanium		2000.000	1981.000	ug/L	-1	10	
Vanadium		2000.000	2046.000	ug/L	2	10	
Zinc		2000.000	2069.000	ug/L	3	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467025

Run Name :
Filename : icp180301

IDF : 1.0
Injected : 29-NOV-2004 10:27
Caltype :

Standards: 04WS1781

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1035.000	ug/L	4	10	
Antimony		2000.000	1955.000	ug/L	-2	10	
Arsenic		2000.000	2038.000	ug/L	2	10	
Barium		1000.000	1060.000	ug/L	6	10	
Beryllium		2000.000	2076.000	ug/L	4	10	
Boron		1000.000	1020.000	ug/L	2	10	
Cadmium		2000.000	2087.000	ug/L	4	10	
Calcium		2000.000	2100.000	ug/L	5	10	
Chromium		2000.000	1996.000	ug/L	0	10	
Cobalt		2000.000	2046.000	ug/L	2	10	
Copper		2000.000	2060.000	ug/L	3	10	
Iron		2000.000	1845.000	ug/L	-8	10	
Lead		2000.000	2059.000	ug/L	3	10	
Magnesium		2000.000	2017.000	ug/L	1	10	
Manganese		2000.000	2050.000	ug/L	3	10	
Molybdenum		2000.000	2103.000	ug/L	5	10	
Nickel		2000.000	2116.000	ug/L	6	10	
Potassium		10000.00	9678.000	ug/L	-3	10	
Selenium		2000.000	1907.000	ug/L	-5	10	
Silver		1000.000	1065.000	ug/L	7	10	
Sodium		10000.00	10610.00	ug/L	6	10	
Thallium		2000.000	2237.000	ug/L	**12**	10	c+ **
Tin		2000.000	2015.000	ug/L	1	10	
Titanium		2000.000	1940.000	ug/L	-3	10	
Vanadium		2000.000	2050.000	ug/L	3	10	
Zinc		2000.000	2097.000	ug/L	5	10	

+=high bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14481467004 Run Name: Injected: 29-NOV-2004 08:42
Filename: icp180280 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	[3.7800]	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	[3.7680]	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[16.490]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	7420.000	100.0000	ug/L	<RL	ib ***
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	ND	200.0000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

ib=instrument blank
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14481467015 Run Name: Injected: 29-NOV-2004 09:38
Filename: icp180291 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Boron	114.2000	100.0000	ug/L	<RL	ib ***
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	ND	100.0000	ug/L	<RL	
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	2170000	200.0000	ug/L	<RL	>LR ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

>LR=overrange ib=instrument blank
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14481467026 Run Name:
Filename: icp180302 Run Type: CCB

Injected: 29-NOV-2004 10:31

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	ND	500.0000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.7030]	2.000000	ug/L	<RL	
Boron	ND	100.0000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	20.00000	ug/L	<RL	
Copper	[2.8980]	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	300.0000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	ND	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Phosphorus	ND	100.0000	ug/L	<RL	
Potassium	ND	500.0000	ug/L	<RL	
Selenium	ND	500.0000	ug/L	<RL	
Silicon	3196.000	200.0000	ug/L	<RL	ib ***
Silver	ND	5.000000	ug/L	<RL	
Sodium	ND	500.0000	ug/L	<RL	
Sulfide	ND	1.000000	mg/L	<RL	
Thallium	ND	500.0000	ug/L	<RL	
Tin	ND	40.00000	ug/L	<RL	
Titanium	ND	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

ib=instrument blank
Page 1 of 1

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14481467006 Run Name: Injected: 29-NOV-2004 09:05
Filename: icp180282 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[30.280]	60.00000	ug/L	<RL	
Arsenic	[45.220]	500.0000	ug/L	<RL	
Barium	[-0.302]	10.00000	ug/L	<RL	
Beryllium	[-0.045]	2.000000	ug/L	<RL	
Boron	[-24.69]	100.0000	ug/L	<RL	
Cadmium	[-2.243]	5.000000	ug/L	<RL	
Chromium	[-4.686]	10.00000	ug/L	<RL	
Cobalt	[-1.719]	20.00000	ug/L	<RL	
Copper	[0.1812]	10.00000	ug/L	<RL	
Lead	[-46.52]	300.0000	ug/L	<RL	
Manganese	[-8.286]	10.00000	ug/L	<RL	
Molybdenum	[13.600]	20.00000	ug/L	<RL	
Nickel	[-4.103]	20.00000	ug/L	<RL	
Phosphorus	185700.0	100.0000	ug/L	<RL	a+ ***
Potassium	-519.700	500.0000	ug/L	<RL	
Selenium	[166.70]	500.0000	ug/L	<RL	
Silicon	308700.0	200.0000	ug/L	<RL	a+ ***
Silver	[1.2340]	5.000000	ug/L	<RL	
Sodium	[-120.4]	500.0000	ug/L	<RL	
Sulfide	23.19000	1.000000	mg/L	<RL	a+ ***
Thallium	[-62.56]	500.0000	ug/L	<RL	
Tin	[-28.89]	40.00000	ug/L	<RL	
Titanium	[2.3550]	10.00000	ug/L	<RL	
Vanadium	[-4.130]	10.00000	ug/L	<RL	
Zinc	[-12.62]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	543300	ug/L	109
Calcium	500000	1900000	ug/L	380
Iron	200000	184000	ug/L	92
Magnesium	500000	503900	ug/L	101

+=high bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467007

Run Name :
Filename : icp180283

Injected : 29-NOV-2004 09:08
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	544700.0	ug/L	9		
Antimony	2000.000	1979.000	ug/L	-1	20	
Arsenic	2000.000	2077.000	ug/L	4	20	
Barium	500.0000	492.5000	ug/L	-2	20	
Beryllium	500.0000	483.7000	ug/L	-3	20	
Cadmium	1000.000	987.0000	ug/L	-1	20	
Calcium	500000.0	1940000	ug/L	288		
Chromium	500.0000	469.4000	ug/L	-6	20	
Cobalt	500.0000	468.3000	ug/L	-6	20	
Copper	500.0000	498.2000	ug/L	0	20	
Iron	200000.0	185600.0	ug/L	-7		
Lead	1000.000	902.4000	ug/L	-10	20	
Magnesium	500000.0	509300.0	ug/L	2		
Manganese	500.0000	468.1000	ug/L	-6	20	
Molybdenum	500.0000	486.6000	ug/L	-3	20	
Nickel	1000.000	957.8000	ug/L	-4	20	
Selenium	2000.000	2099.000	ug/L	5	20	
Silver	1000.000	984.1000	ug/L	-2	20	
Thallium	2000.000	2012.000	ug/L	1	20	
Titanium	2000.000	1946.000	ug/L	-3	20	
Vanadium	500.0000	476.6000	ug/L	-5	20	
Zinc	1000.000	1013.000	ug/L	1	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14481467024

Run Name :
Filename : icp180300

Injected : 29-NOV-2004 10:18
Caltype :

Standards: 04WS1846

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	551600.0	ug/L	10		
Antimony	2000.000	1915.000	ug/L	-4	20	
Arsenic	2000.000	2116.000	ug/L	6	20	
Barium	500.0000	507.8000	ug/L	2	20	
Beryllium	500.0000	508.9000	ug/L	2	20	
Cadmium	1000.000	1021.000	ug/L	2	20	
Calcium	500000.0	1984000	ug/L	297		
Chromium	500.0000	472.8000	ug/L	-5	20	
Cobalt	500.0000	473.6000	ug/L	-5	20	
Copper	500.0000	513.8000	ug/L	3	20	
Iron	200000.0	177700.0	ug/L	-11		
Lead	1000.000	867.9000	ug/L	-13	20	
Magnesium	500000.0	520500.0	ug/L	4		
Manganese	500.0000	484.0000	ug/L	-3	20	
Molybdenum	500.0000	496.9000	ug/L	-1	20	
Nickel	1000.000	983.6000	ug/L	-2	20	
Selenium	2000.000	1954.000	ug/L	-2	20	
Silver	1000.000	1018.000	ug/L	2	20	
Thallium	2000.000	2157.000	ug/L	8	20	
Titanium	2000.000	1959.000	ug/L	-2	20	
Vanadium	500.0000	501.6000	ug/L	0	20	
Zinc	1000.000	1070.000	ug/L	7	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14481467 Instrument: MET01 TJA ICP Begun: 29-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	icp18027	CS				29-NOV-2004 08:27	1.0	1.0			1	
002	icp18027	CS				29-NOV-2004 08:30	1.0	1.0	2		2	
003	icp18027	ICV				29-NOV-2004 08:35	1.0	1.0			3	1:SI=216800
004	icp18028	ICB				29-NOV-2004 08:42	1.0	1.0	1			
005	icp18028	CRI				29-NOV-2004 09:01	1.0	1.0	1		4	
006	icp18028	ICSA				29-NOV-2004 09:05	1.0	1.0	3		5	7:CA=1900000
007	icp18028	ICSAB				29-NOV-2004 09:08	1.0	1.0			6	7:CA=1940000
008	icp18028	BLANK	QC273997	96914	Fuels	29-NOV-2004 09:13	30.0	2.0	4			1:SI=3110000
009	icp18028	MSS	176237-004	96914	Fuels	29-NOV-2004 09:18	30.0	2.109	4			1:SI=5263000
010	icp18028	SDUP	QC273996	96914	Fuels	29-NOV-2004 09:21	30.0	1.908	1			1:SI=6324000
011	icp18028	SAMPLE	176237-001	96914	Fuels	29-NOV-2004 09:24	30.0	2.506				1:SI=6511000
012	icp18028	SAMPLE	176237-002	96914	Fuels	29-NOV-2004 09:27	30.0	2.246				1:SI=7651000
013	icp18028	SAMPLE	176237-003	96914	Fuels	29-NOV-2004 09:30	30.0	2.288				1:SI=7570000
014	icp18029	CCV				29-NOV-2004 09:33	1.0	1.0	1		7	2:SI=9596000
015	icp18029	CCB				29-NOV-2004 09:38	1.0	1.0	2			1:SI=2170000
016	icp18029	MSS	176248-005	96915	Soil	29-NOV-2004 09:56	5.0	41.67	4			1:SI=921300
017	icp18029	SER	QC274003	96915	Soil	29-NOV-2004 09:58	25.0	41.67				2:SI=269200
018	icp18029	MS	QC274001	96915	Soil	29-NOV-2004 10:01	1.0	40.0	1	1		4:SI=3153000
019	icp18029	MSD	QC274002	96915	Soil	29-NOV-2004 10:04	1.0	33.33	1	4		4:SI=2779000
020	icp18029	SAMPLE	176248-001	96915	Soil	29-NOV-2004 10:08	10.0	40.98				1:SI=315300
021	icp18029	SAMPLE	176248-002	96915	Soil	29-NOV-2004 10:11	10.0	42.02				1:SI=332500
022	icp18029	SAMPLE	176248-003	96915	Soil	29-NOV-2004 10:13	10.0	36.23				1:SI=313600
023	icp18029	SAMPLE	176248-004	96915	Soil	29-NOV-2004 10:16	10.0	39.37				2:SI=275000
024	icp18030	ICSAB				29-NOV-2004 10:18	1.0	1.0			6	6:CA=1984000
025	icp18030	CCV				29-NOV-2004 10:27	1.0	1.0	1		7	1:SI=234500
026	icp18030	CCB				29-NOV-2004 10:31	1.0	1.0	1			

Stds used: 1=04WS1970 2=04WS2038 3=04WS1780 4=04WS2161 5=04WS1702 6=04WS1846 7=04WS1781

Analyst: _____ Date: 11/29/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176248 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	TL	V	ZN
176248-001	MET07	11/29/04 09:28	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176248-001	MET01	11/29/04 10:08	10.0									+										
176248-002	MET07	11/29/04 09:32	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176248-002	MET01	11/29/04 10:11	10.0									+										
176248-003	MET07	11/29/04 09:36	1.0	+	+	+	+	+	+	+	+		+	+		+	+	+	+	+	+	+
176248-003	MET01	11/29/04 10:13	10.0									+										
176248-003	MET04	11/30/04 13:14	1.0												+							
176248-004	MET07	11/29/04 09:40	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
176248-004	MET01	11/29/04 10:16	10.0									+		+								
176248-005	MET07	11/29/04 08:27	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
176248-005	MET01	11/29/04 09:56	5.0									+		+								
QC273998	MET07	11/29/04 08:10	1.0	+	+	+	+	+	+	+	+	+		+		+	+	+	+	+	+	+
QC273998	MET07	11/29/04 08:13	1.0										+									
QC273999	MET07	11/29/04 08:18	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC274000	MET07	11/29/04 08:22	1.0	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+
QC274001	MET07	11/29/04 09:18	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
QC274001	MET01	11/29/04 10:01	1.0									+		+								
QC274002	MET07	11/29/04 09:23	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
QC274002	MET01	11/29/04 10:04	1.0									+		+								
QC274003	MET07	11/29/04 08:41	5.0	+		+	+	+	+	+	+		+			+	+	+	+	+	+	+
QC274003	MET07	11/29/04 08:46	5.0		+																	
QC274003	MET01	11/29/04 09:58	25.0									+		+								
QC274004	MET07	11/29/04 08:54	1.0	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+	+
QC274264	MET04	11/30/04 13:08	1.0												+							
QC274265	MET04	11/30/04 13:10	1.0												+							
QC274266	MET04	11/30/04 13:12	1.0												+							
QC274267	MET04	11/30/04 13:18	1.0												+							
QC274268	MET04	11/30/04 13:20	1.0												+							
QC274298	MET04	11/30/04 13:16	5.0												+							

Curtis & Tompkins Laboratories Sample Preparation Summary 28-NOV-2004 21:09

Batch Number : 96915
Date Extracted: 28-NOV-2004
Extracted by : Victor Vergara
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176168-005			Espana Geotechnical	Soil	1.06	g	50	47.169811	1					T26/ICP		
176168-006			Espana Geotechnical	Soil	.95	g	50	52.631579	1					T26/ICP		
176168-007			Espana Geotechnical	Soil	.93	g	50	53.763441	1					T26/ICP		
176168-008			Espana Geotechnical	Soil	1.24	g	50	40.322581	1					T26/ICP		
176168-009			Espana Geotechnical	Soil	1.12	g	50	44.642857	1					T26/ICP		
176168-010			Espana Geotechnical	Soil	.98	g	50	51.020408	1					T26/ICP		
176168-011			Espana Geotechnical	Soil	1.01	g	50	49.504950	1					T26/ICP		
176168-012			Espana Geotechnical	Soil	1.04	g	50	48.076923	1					T26/ICP		
176168-013			Espana Geotechnical	Soil	.96	g	50	52.083333	1					T26/ICP		
176168-014			Espana Geotechnical	Soil	.98	g	50	51.020408	1					T26/ICP		
176168-015			Espana Geotechnical	Soil	1.3	g	50	38.461538	1					T26/ICP		
176168-016			Espana Geotechnical	Soil	1.05	g	50	47.619048	1					T26/ICP		
176248-001			Treadwell & Rollo	Soil	1.22	g	50	40.983607	1					T26/ICP		
176248-002			Treadwell & Rollo	Soil	1.19	g	50	42.016807	1					T26/ICP		
176248-003			Treadwell & Rollo	Soil	1.38	g	50	36.231884	1					T26/ICP		
176248-004			Treadwell & Rollo	Soil	1.27	g	50	39.370079	1					T26/ICP		
176248-005			Treadwell & Rollo	Soil	1.2	g	50	41.666667	1					T26/ICP		mss
176259-001			ConocoPhillips Company	Miscell.	1.05	g	50	47.619048	1					V		
176259-002			ConocoPhillips Company	Miscell.	1.11	g	50	45.045045	1					V		
176273-001			Presidio Trust	Soil	1.41	g	50	35.460993	1					PB		
QC273998	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC273999	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC274000	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC274001	MS	of 176248-005		Soil	1.25	g	50	40.000000	1		.5	.5		ICAP		
QC274002	MSD	of 176248-005		Soil	1.5	g	50	33.333333	1		.5	.5		ICAP		
QC274003	SER	of 176248-005		Soil	1.2	g	50	41.666667	1					ICAP		
QC274004	PDS	of 176248-005		Soil	1.2	g	50	41.666667	1					ICAP		

Prep Chemist: [signature] Reviewed By: [signature] Date: 11/29/04

Relinquished By: [signature] Received By: [signature] Date: 11/29/04

Soil Digestion for ICP & ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 96915
Date Digested: 11/28/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 2025
Page 47

	Sample # and letter		Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	BLKQC 273998		Ø	50.0		
*	BS 273999					
*	BSD 274000					
*	176248-005 MS	A	1.25			Sample from B side.
*	- 005 MSD		1.50			
	176168-005	A	1.06			
	- 006		0.95			
	- 007		0.93			
	- 008		1.24			
10	- 009		1.12			
	- 010		0.98			
	- 011		1.01			
	- 012		1.04			
	- 013		0.96			
15	- 014		0.98			
	- 015		1.30			
	- 016		1.05			
	176248-001	A	1.22			Sample from B side.
	- 002		1.19			
20	- 003		1.38			
	- 004		1.27			
	- 005		1.20			MSS
	176259-001		1.05			comp 3 jars
	- 002		1.11			
	176273-001	A	1.41			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	VV 11/28/04
0.5 mL of spike solution was added to all spikes	04SS171 *	
	04SS172 *	
1:1 HNO3	A270-45-101504	
concentrated HNO3	A270-45- JTBaker	
3mL 30% hydrogen peroxide	241138425- V.W.R	
concentrated HCl	A330-46- JTBaker	
☒ filtered thru' Whatman # 541	E156605 7	

Extraction Chemist / Date

Continued from page Ø
Continued on page Ø

Reviewed by / Date

Folder: 113004
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  1       12:46:13 30 Nov 04   HG

Hg    .000    ppb       4201

*** Standard: 2 Rep: 1                Seq:  2       12:48:08 30 Nov 04   HG

Hg    .200    ppb       13139

*** Standard: 3 Rep: 1                Seq:  3       12:50:20 30 Nov 04   HG

Hg    .500    ppb       23990

*** Standard: 4 Rep: 1                Seq:  4       12:52:15 30 Nov 04   HG

Hg    2.00    ppb       99034

*** Standard: 5 Rep: 1                Seq:  5       12:54:26 30 Nov 04   HG

Hg    5.00    ppb       240350

*** Standard: 6 Rep: 1                Seq:  6       12:56:18 30 Nov 04   HG

Hg    10.0    ppb       466441

*** Check Standard: 2  Ck2WS2246      Seq:  7       13:02:41 30 Nov 04   HG
Line   Flag  %Rcv.   Found    True  Units      SD/RSD
Hg           104.    5.18    5.00  ppb         .000  %

*** Check Standard: 1  Ck1ICB         Seq:  8       13:06:01 30 Nov 04   HG
Line   Flag  Found Range(+/-) Units      SD/RSD
Hg          -.039     .000     ppb        .000  %

*** Sample ID: QC274264               Seq:  9       13:08:05 30 Nov 04   HG
                            96975,1
Hg   -.086    ppb       .000  %  -.086

=============================================================================
*** Sample ID: QC274265               Seq:  10      13:10:20 30 Nov 04   HG
                            96975,1
Hg    5.42    ppb       .000  %   5.42
                                                                          =
=============================================================================
*** Sample ID: QC274266               Seq:  11      13:12:36 30 Nov 04   HG
                            96975,1
Hg    5.50    ppb       .000  %   5.50
                                                                          =
=============================================================================
```

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MET04 HydraAA HG Analyzer Reviewed By: ---
Calnum: 44483166001 Name: Type: SOIL Date: 30-NOV-2004 12:46 Inj Vol (uL): 2000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	96975	44483166001	Std01Rep1	30-NOV-2004 12:46	
2	96975	44483166002	Std02Rep1	30-NOV-2004 12:48	04WS2244 (500X)
3	96975	44483166003	Std03Rep1	30-NOV-2004 12:50	04WS2244 (200X)
4	96975	44483166004	Std04Rep1	30-NOV-2004 12:52	04WS2244 (50X)
5	96975	44483166005	Std05Rep1	30-NOV-2004 12:54	04WS2244 (20X)
6	96975	44483166006	Std06Rep1	30-NOV-2004 12:56	04WS2244 (10X)

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Mercury		65695	47980	49517	48070	46644	LINR	R	-0.08934	2.153E-5		ug/L	51581	1.000	.99	

59

Curves: LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

WinHg Database 1.3

File Utility Help

Protocol hgppb

Dataset/Proto 113004 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.15262e-5

C -8.93402e-2

Rho .999892

Type Linear

☑ Calibrated

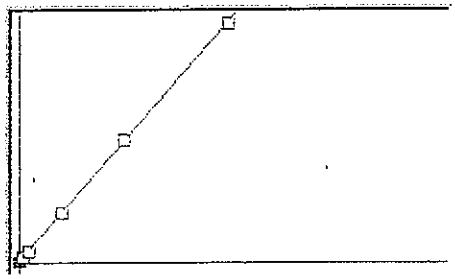
☑ Accepted

Accept

Rel. Abs.
466441

Accepted

New



Conc. 20.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.001	.001	4201	0	4201		
02	.20000	.193	-.007	13139	0%	13139		
03	.50000	.427	-.073	23991	0%	23990		
04	2.0000	2.04	.042	99034	0%	99034		
05	5.0000	5.08	.084	240350	0%	240350		
06	10.000	9.95	-.049	466441	0%	466441		

Ready

CAP NUM

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44483166 Instrument: MET04 HydraAA HG Analyzer Begun: 30-NOV-2004
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	96975	ICALBLK	Std01Rep1				30-NOV-2004 12:46	1.0	1.0									
002	96975	ICAL	Std02Rep1				30-NOV-2004 12:48	1.0	1.0									
003	96975	ICAL	Std03Rep1				30-NOV-2004 12:50	1.0	1.0									
004	96975	ICAL	Std04Rep1				30-NOV-2004 12:52	1.0	1.0									
005	96975	ICAL	Std05Rep1				30-NOV-2004 12:54	1.0	1.0									
006	96975	ICAL	Std06Rep1				30-NOV-2004 12:56	1.0	1.0									
007	96975	ICV					30-NOV-2004 13:02	1.0	1.0	2	5.000	44483166001	5.180		ug/L	104		
008	96975	ICB					30-NOV-2004 13:06	1.0	1.0			44483166001	ND	0.20	ug/L			
009	96975	BLANK	QC274264		96975	Soil	30-NOV-2004 13:08	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
010	96975	BS	QC274265		96975	Soil	30-NOV-2004 13:10	1.0	100.0		0.5000	44483166001	0.5420	0.020	mg/Kg	108		u
011	96975	BSD	QC274266		96975	Soil	30-NOV-2004 13:12	1.0	100.0		0.5000	44483166001	0.5500	0.020	mg/Kg	110	1	u
012	96975	MSS	176248-003		96975	Soil	30-NOV-2004 13:14	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
013	96975	SER	QC274298	176248-003	96975	Soil	30-NOV-2004 13:16	5.0	100.0			44483166001	ND	0.10	mg/Kg		--	u
014	96975	MS	QC274267	176248-003	96975	Soil	30-NOV-2004 13:18	1.0	96.15		0.4808	44483166001	0.5288	0.019	mg/Kg	110		u
015	96975	MSD	QC274268	176248-003	96975	Soil	30-NOV-2004 13:20	1.0	87.72		0.4386	44483166001	0.4754	0.018	mg/Kg	108	1	u
016	96975	SAMPLE	176089-013		96975	Soil	30-NOV-2004 13:22	1.0	100.0			44483166001	0.38	0.020	mg/Kg			u
017	96975	SAMPLE	176098-001		96975	Miscel	30-NOV-2004 13:24	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
018	96975	SAMPLE	176098-002		96975	Miscel	30-NOV-2004 13:26	1.0	96.15			44483166001	ND	0.019	mg/Kg			u
019	96975	CCV					30-NOV-2004 13:29	1.0	1.0	3	2.500	44483166001	2.640		ug/L	106		
020	96975	CCB					30-NOV-2004 13:31	1.0	1.0			44483166001	ND	0.20	ug/L			
021	96975	SAMPLE	176160-001		96975	Miscel	30-NOV-2004 13:32	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
022	96975	SAMPLE	176164-001		96975	Soil	30-NOV-2004 13:34	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
023	96975	SAMPLE	176164-002		96975	Soil	30-NOV-2004 13:37	1.0	87.72			44483166001	ND	0.018	mg/Kg			u
024	96975	SAMPLE	176164-003		96975	Soil	30-NOV-2004 13:39	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
025	96975	SAMPLE	176179-001		96975	Soil	30-NOV-2004 13:41	1.0	100.0			44483166001	0.30	0.020	mg/Kg			u
026	96975	SAMPLE	176179-002		96975	Soil	30-NOV-2004 13:43	1.0	83.33			44483166001	0.32	0.017	mg/Kg			u
027	96975	SAMPLE	176179-003		96975	Soil	30-NOV-2004 13:45	1.0	76.92			44483166001	0.81 >LR	0.015	mg/Kg			! >LR c
028	96975	SAMPLE	176179-004		96975	Soil	30-NOV-2004 13:47	1.0	94.34			44483166001	0.61	0.019	mg/Kg			u
029	96975	SAMPLE	176179-005		96975	Soil	30-NOV-2004 13:49	1.0	100.0			44483166001	0.42	0.020	mg/Kg			u
030	96975	SAMPLE	176185-001		96975	Soil	30-NOV-2004 13:51	1.0	87.72			44483166001	0.14	0.018	mg/Kg			u
031	96975	CCV					30-NOV-2004 13:53	1.0	1.0	4	5.000	44483166001	5.360		ug/L	107		
032	96975	CCB					30-NOV-2004 13:55	1.0	1.0			44483166001	ND	0.20	ug/L			
033	96975	SAMPLE	176211-001		96975	Soil	30-NOV-2004 13:58	1.0	94.34			44483166001	0.16	0.019	mg/Kg			u
034	96975	SAMPLE	176226-001		96975	Soil	30-NOV-2004 14:00	1.0	80.65			44483166001	0.047	0.016	mg/Kg			u
035	96975	SAMPLE	176226-002		96975	Soil	30-NOV-2004 14:02	1.0	100.0			44483166001	0.040	0.020	mg/Kg			u
036	96975	SAMPLE	176226-003		96975	Soil	30-NOV-2004 14:04	1.0	100.0			44483166001	0.067	0.020	mg/Kg			u
037	96975	SAMPLE	176280-001		96975	Miscel	30-NOV-2004 14:07	1.0	100.0			44483166001	0.041	0.020	mg/Kg			u
038	96975	SAMPLE	176284-001		96975	Miscel	30-NOV-2004 14:09	1.0	94.34			44483166001	0.041	0.019	mg/Kg			u
039	96975	SAMPLE	176179-003		96975	Soil	30-NOV-2004 14:11	10.0	76.92			44483166001	0.88	0.15	mg/Kg			u
040	96975	CCV					30-NOV-2004 14:13	1.0	1.0	5	7.500	44483166001	8.110		ug/L	108		
041	96975	CCB					30-NOV-2004 14:15	1.0	1.0			44483166001	ND	0.20	ug/L			

Stds used: 1=04WS2244 2=04WS2246 3=04WS2247 4=04WS2248 5=04WS2249
Flags used: !=calc err >LR=overrange b=noncompliant calc=calculation error u=use

Analyst: [signature] Date: 11/30/04

Curtis & Tompkins Laboratories Sample Preparation Summary 30-NOV-2004 11:44

Batch Number : 96975
Date Extracted: 30-NOV-2004
Extracted by : Morris Luong Tran
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : g
Clean-up :

Spike #1 ID : 04WS2244
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176089-013			Tetra Tech FW, INC	Soil	.5	g	50	100.000000	1					T26/HG		
176098-001			Warren George Inc	Miscell.	.5	g	50	100.000000	1					T26/HG		
176098-002			Warren George Inc	Miscell.	.52	g	.50	96.153846	1					T26/HG		
176160-001			Morton Salt	Miscell.	.5	g	50	100.000000	1					T26/HG		
176164-001			URS Corporation	Soil	.5	g	50	100.000000	1					T26/HG		
176164-002			URS Corporation	Soil	.57	g	50	87.719298	1					T26/HG		
176164-003			URS Corporation	Soil	.5	g	50	100.000000	1					T26/HG		
176179-001			Blasland, Bouck & Lee	Soil	.5	g	50	100.000000	1					PP13/HG		
176179-002			Blasland, Bouck & Lee	Soil	.6	g	50	83.333333	1					PP13/HG		
176179-003			Blasland, Bouck & Lee	Soil	.65	g	50	76.923077	1					PP13/HG		
176179-004			Blasland, Bouck & Lee	Soil	.53	g	50	94.339623	1					PP13/HG		
176179-005			Blasland, Bouck & Lee	Soil	.5	g	50	100.000000	1					PP13/HG		
176185-001			LFR Levine Fricke	Soil	.57	g	50	87.719298	1					T26/HG		
176211-001			CH2M Hill Constructors Inc.	Soil	.53	g	50	94.339623	1					T26/HG		
176226-001			LFR Levine Fricke	Soil	.62	g	50	80.645161	1					HG		
176226-002			LFR Levine Fricke	Soil	.5	g	50	100.000000	1					HG		
176226-003			LFR Levine Fricke	Soil	.5	g	50	100.000000	1					HG		
176248-003			Treadwell & Rollo	Soil	.5	g	50	100.000000	1					HG		
176280-001			ConocoPhillips Company	Miscell.	.5	g	50	100.000000	1					T26/HG		
176284-001			RMT, Inc.	Miscell.	.53	g	50	94.339623	1					T26/HG		
QC274264	MB			Soil	.5	g	50	100.000000	1					HG		
QC274265	BS			Soil	.5	g	50	100.000000	1		2.5			HG		
QC274266	BSD	of QC274265		Soil	.5	g	50	100.000000	1		2.5			HG		
QC274267	MS	of 176248-003		Soil	.52	g	50	96.153846	1		2.5			HG		
QC274268	MSD	of 176248-003		Soil	.57	g	50	87.719298	1		2.5			HG		
QC274298	SER	of 176248-003		Soil	.5	g	50	100.000000	1					HG		

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Soil Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 96975
Date Digested: 11/30/04
Digested by: MK

Digestion Method
☒ EPA 7471A
☐ _____

BK 2003
Page 46

	Sample # and letter	Sample Weight (g)	Final Volume (mL)	Filtered? (y/n)	Comments
	176226 - 1 ✓	0.62	50.0	y	Aliquot 176065-1
	2	0.50			2
	3	0.50			3
	176089 - 13 A ✓	0.50			
5	176098 - 1 A ✓	0.50			
	2 A	0.52			
	176160 - 1 A ✓	0.50			Cotton
*	176164 - 1 A ✓	0.50			
	2	0.57			
10	3	0.50			
	176185 - 1 ✓	0.57			
	176211 - 1 ✓	0.53			
*	176248 - 3 ✓	0.50			
	176284 - 1 ✓	0.53			Air filter
15	176280 - 1 ✓	0.50			(Comp. 3 containers.)
	176179 - 1 A ✓	0.50			(Aliquot 176280-1)
	2	0.60			
	3	0.65			
	4	0.53			
20	5	0.50			
	MB				
	BS				
	BSD				
	176248-3 A MS	0.52			
	3 A MSD	0.57			

	Reagent ID/ LIMS# / Time	Initials / Date
~~5~~ = 2.5 mL of spike solution was added to all spikes	04WS2244	MK 11/30/04
ICAL Source WS#	04WS2244	
ICV / CCV WS#	04WS2246/47/48/49	
Digestion of Samples & Standards: Time ON / Temperature ON	10:45 Am / 95°C	
Time OFF/ Temperature OFF	11:15 Am / 95°C	
Aqua Regia Acids (HNO3+ HCl)	AR 113004	
5% $KMnO_4$	K 112404	
NaCl.hydroxylamine hydrochloride	Hy 111604	
Stannous Chloride	Sn 112304	
☐ filtered thru' 0.45 um syringe filter	2WN60236 millipore	

11/30/04
Prep Chemist / Date

Continued from page 63
Continued on page

11/1
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6010B Soil 3050B

Analyte	Units	MET01	MET07	MET08 A	MET08 R
Aluminum	mg/Kg	07/26/04 1.5	07/21/04 0.52		09/10/04 1.3
Antimony	mg/Kg	07/20/04 1.3	07/21/04 0.20	09/10/04 0.076	
Arsenic	mg/Kg	07/26/04 2.8	07/20/04 0.10	09/10/04 0.10	
Barium	mg/Kg	07/27/04 0.098	07/21/04 0.013		09/10/04 0.033
Beryllium	mg/Kg	07/20/04 0.029	07/21/04 0.0063	09/10/04 0.0056	
Cadmium	mg/Kg	07/20/04 0.14	07/21/04 0.028	09/10/04 0.0076	
Calcium	mg/Kg	07/26/04 2.8	07/21/04 0.58		09/10/04 1.5
Chromium	mg/Kg	07/20/04 0.29	07/21/04 0.033	09/10/04 0.013	
Cobalt	mg/Kg	07/20/04 0.39	07/21/04 0.076	09/10/04 0.0087	
Copper	mg/Kg	07/20/04 0.11	07/21/04 0.057	09/10/04 0.069	
Iron	mg/Kg	07/20/04 1.5	07/21/04 0.80		09/10/04 0.33
Lead	mg/Kg	07/26/04 7.9	07/20/04 0.065	09/10/04 0.078	
Magnesium	mg/Kg	07/20/04 1.5	07/21/04 0.52		09/10/04 1.2
Manganese	mg/Kg	07/20/04 0.11	07/20/04 0.11		09/10/04 0.023
Molybdenum	mg/Kg	07/20/04 0.43	07/21/04 0.062	09/10/04 0.032	
Nickel	mg/Kg	07/20/04 0.64	07/21/04 0.067	09/10/04 0.026	
Potassium	mg/Kg	07/27/04 18			09/17/04 3.7
Selenium	mg/Kg	07/27/04 8.1	07/21/04 0.17	09/10/04 0.18	
Silver	mg/Kg	07/26/04 0.18	07/21/04 0.098	09/10/04 0.035	
Sodium	mg/Kg	07/26/04 2.8			09/17/04 3.2
Thallium	mg/Kg	07/26/04 9.5	07/21/04 0.21	09/10/04 0.17	
Vanadium	mg/Kg	07/20/04 0.14	07/21/04 0.045	09/10/04 0.039	
Zinc	mg/Kg	07/20/04 0.17	07/21/04 0.17		09/10/04 0.091
Boron	mg/Kg	07/27/04 3.1		09/17/04 0.32	
Tin	mg/Kg	07/26/04 1.0		09/17/04 0.085	
Titanium	mg/Kg	07/26/04 0.099			09/17/04 0.068

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Soil

Analyte	Units	MET03		MET04	
Mercury	mg/Kg	05/15/03	0.0050	03/30/04	0.0039

ICP Raw Data

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74481400 Instrument: MET07 TJA Trace ICP Begun: 29-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr256033	CS				29-NOV-2004 07:20	1.0	1.0			1	
002	tr256034	ICV				29-NOV-2004 07:23	1.0	1.0			2	
003	tr256035	ICB				29-NOV-2004 07:31	1.0	1.0				
004	tr256036	CRI				29-NOV-2004 07:38	1.0	1.0			3	
005	tr256037	ICSA				29-NOV-2004 07:51	1.0	1.0	1		4	4:MG=539400
006	tr256038	ICSAB				29-NOV-2004 07:58	1.0	1.0			5	5:MG=530200
007	tr256039	BLANK	QC273998	96915	Soil	29-NOV-2004 08:10	1.0	50.0	2			
008	tr256040	BLANK	QC273998	96915	Soil	29-NOV-2004 08:13	1.0	50.0	1			
009	tr256041	BS	QC273999	96915	Soil	29-NOV-2004 08:18	1.0	50.0	1			
010	tr256042	BSD	QC274000	96915	Soil	29-NOV-2004 08:22	1.0	50.0	1			
011	tr256043	MSS	176248-005	96915	Soil	29-NOV-2004 08:27	1.0	41.67	4			4:FE=632900
012	tr256044	SER	QC274003	96915	Soil	29-NOV-2004 08:41	5.0	41.67		1		1:FE=122600
013	tr256045	SER	QC274003	96915	Soil	29-NOV-2004 08:46	5.0	41.67		4		1:FE=137100
014	tr256046	PDS	QC274004	96915	Soil	29-NOV-2004 08:54	1.0	41.67			6 7	4:FE=633500
015	tr256047	CCV				29-NOV-2004 09:10	1.0	1.0			8	
016	tr256048	CCB				29-NOV-2004 09:14	1.0	1.0				
017	tr256049	MS	QC274001	96915	Soil	29-NOV-2004 09:18	1.0	40.0		1		4:FE=594000
018	tr256050	MSD	QC274002	96915	Soil	29-NOV-2004 09:23	1.0	33.33		1		4:FE=616400
019	tr256051	SAMPLE	176248-001	96915	Soil	29-NOV-2004 09:28	1.0	40.98	1			2:FE=236800
020	tr256052	SAMPLE	176248-002	96915	Soil	29-NOV-2004 09:32	1.0	42.02	1			1:FE=233700
021	tr256053	SAMPLE	176248-003	96915	Soil	29-NOV-2004 09:36	1.0	36.23	1			3:FE=279400
022	tr256054	SAMPLE	176248-004	96915	Soil	29-NOV-2004 09:40	1.0	39.37	2			3:FE=493300
023	tr256055	SAMPLE	176273-001	96915	Soil	29-NOV-2004 09:44	1.0	35.46				5:FE=486400
024	tr256056	SAMPLE	176168-005	96915	Soil	29-NOV-2004 09:48	1.0	47.17	1			5:MG=734400
025	tr256057	SAMPLE	176168-006	96915	Soil	29-NOV-2004 09:53	1.0	52.63				2:FE=136900
026	tr256058	SAMPLE	176168-007	96915	Soil	29-NOV-2004 09:57	1.0	53.76				5:MG=859500
027	tr256059	CCV				29-NOV-2004 10:08	1.0	1.0			9	
028	tr256060	CCB				29-NOV-2004 10:16	1.0	1.0				
029	tr256061	SAMPLE	176168-008	96915	Soil	29-NOV-2004 10:20	1.0	40.32	1			3:MG=4040000
030	tr256062	SAMPLE	176168-008	96915	Soil	29-NOV-2004 10:24	1.0	40.32	1			3:MG=4040000
031	tr256063	SAMPLE	176168-009	96915	Soil	29-NOV-2004 10:29	1.0	44.64	1			5:MG=1531000

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007

Analyst: Date: 11/29/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74481400 Instrument: MET07 TJA Trace ICP Begun: 29-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	tr256064	SAMPLE	176153-001	96823	Soil	29-NOV-2004 10:36	1.0	42.37			2:AL=337500
033	tr256065	SAMPLE	176153-002	96823	Soil	29-NOV-2004 10:45	1.0	43.86			3:FE=332400
034	tr256066	SAMPLE	176153-003	96823	Soil	29-NOV-2004 10:49	1.0	40.98	1		2:FE=270100
035	tr256067	SAMPLE	176153-004	96823	Soil	29-NOV-2004 10:54	1.0	45.87			3:FE=370400
036	tr256068	SAMPLE	176153-005	96823	Soil	29-NOV-2004 10:58	1.0	42.02			2:CA=574000
037	tr256069	SAMPLE	176153-003	96823	Soil	29-NOV-2004 11:04	1.0	40.98			2:FE=267400
038	tr256070	ICSAB				29-NOV-2004 11:09	1.0	1.0		5	5:AL=512300
039	tr256071	CCV				29-NOV-2004 11:13	1.0	1.0	3	8	
040	tr256072	CCB				29-NOV-2004 11:23	1.0	1.0			

68

Stds used: 1=04WS1891 2=04WS2066 3=04WS1931 4=04WS1702 5=04WS1841 6=04SS171 7=04SS172 8=04WS2067 9=04WS2007

Analyst: _____ Date: 11/29/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	176248-001	Cident	: BB3EX154[0.5]
Seqnum	: 74481400019	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr256051	Batchnum	: 96915	Injected	: 29-NOV-2004 09:28
IDF	: 1.0			Units	: mg/Kg

Prep: 1.22 g --> 50.0 ml = 40.98 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	2.5		u
Arsenic	2.8	0.20		u
Barium	16	0.41		u
Beryllium	0.099	0.082		u
Cadmium	0.24	0.20		u
Chromium	31	0.41	0.036	u
Cobalt	4.6	0.82		u
Copper	4.2	0.41	0.10	u
Iron	9700 **>LR**	4.1	1.1	>LR b*
Lead	5.7	0.12	**0.098**	B u
Manganese	140	**0.41**		u y
Molybdenum	ND	0.82	0.12	u
Nickel	18	0.82		u
Selenium	ND	0.20	**0.26**	B u
Silver	ND	0.20		u
Thallium	ND	0.20		u
Vanadium	28	0.41		u
Zinc	16	0.82	0.22	u

>LR=overrange B=method blank contamination b=noncompliant u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	176248-002	Cident	: DUP112304A
Seqnum	: 74481400020	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr256052	Batchnum	: 96915	Injected	: 29-NOV-2004 09:32
IDF	: 1.0			Units	: mg/Kg

Prep: 1.19 g --> 50.0 ml = 42.02 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	2.5		u
Arsenic	2.8	0.21		u
Barium	21	0.42		u
Beryllium	0.094	0.084		u
Cadmium	0.24	0.21		u
Chromium	29	0.42	0.036	u
Cobalt	4.7	0.84		u
Copper	4.8	0.42	0.10	u
Iron	9800 **>LR**	4.2	1.1	>LR b*
Lead	6.6	0.13	**0.098**	B u
Manganese	160	**0.42**		u y
Molybdenum	ND	0.84	0.12	u
Nickel	19	0.84		u
Selenium	ND	0.21	**0.26**	B u
Silver	ND	0.21		u
Thallium	ND	0.21		u
Vanadium	28	0.42		u
Zinc	17	0.84	0.22	u

>LR=overrange B=method blank contamination b=noncompliant u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 74481400021	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr256053	Batchnum	: 96915	Injected	: 29-NOV-2004 09:36
IDF	: 1.0			Units	: mg/Kg

Prep: 1.38 g --> 50.0 ml = 36.23 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	2.2		u
Arsenic	2.7	0.18		u
Barium	20	0.36		u
Beryllium	0.091	0.072		u
Cadmium	0.24	0.18		u
Chromium	35	0.36	0.036	u
Cobalt	5.0	0.72		u
Copper	4.0	0.36	0.10	u
Iron	10000 **>LR**	3.6	1.1	>LR b*
Lead	2.5	0.11	**0.098**	B u
Manganese	160	**0.36**		u y
Molybdenum	ND	0.72	0.12	u
Nickel	18	0.72		u
Selenium	0.31	0.18	**0.26**	B u b*
Silver	ND	0.18		u
Thallium	ND	0.18		u
Vanadium	30	0.36		u
Zinc	16	0.72	0.22	u

>LR=overrange B=method blank contamination b=noncompliant u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	176248-004	Cident	: BB3EX151[0.5]
Seqnum	: 74481400022	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr256054	Batchnum	: 96915	Injected	: 29-NOV-2004 09:40
IDF	: 1.0			Units	: mg/Kg

Prep: 1.27 g --> 50.0 ml = 39.37 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	2.4		u
Arsenic	1.2	0.20		u
Barium	150	0.39		u
Beryllium	0.48	0.079		u
Cadmium	0.38	0.20		u
Chromium	9.9	0.39	0.036	u
Cobalt	19	0.79		u
Copper	92	0.39	0.10	u
Iron	19000 **>LR**	3.9	1.1	>LR b*
Lead	7.7	0.12	**0.098**	B u
Manganese	1600 **>LR**	**0.39**		>LR y b*
Molybdenum	ND	0.79	0.12	u
Nickel	12	0.79		u
Selenium	0.67	0.20	**0.26**	B u b*
Silver	ND	0.20		u
Thallium	ND	0.20		u
Vanadium	26	0.39		u
Zinc	12	0.79	0.22	u

>LR=overrange B=method blank contamination b=noncompliant u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	176248-005	Cident	: BB3EX152[0.5]
Seqnum	: 74481400011	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: tr256043	Batchnum	: 96915	Injected	: 29-NOV-2004 08:27
IDF	: 1.0			Units	: mg/Kg

Prep: 1.20 g --> 50.0 ml = 41.67 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	2.5		u
Arsenic	1.9	0.21		u
Barium	190	0.42		u
Beryllium	0.59	0.083		u
Cadmium	ND	0.21		u
Chromium	12	0.42	0.036	u
Cobalt	17	0.83		u
Copper	110	0.42	0.10	u
Iron	26000 **>LR**	4.2	1.1	>LR b*
Lead	10	0.13	**0.098**	B u
Manganese	2000 **>LR**	**0.42**		>LR y b*
Molybdenum	ND	0.83	0.12	u
Nickel	15	0.83		u
Selenium	1.2	0.21	**0.26**	B u b*
Silver	ND	0.21		u
Thallium	ND	0.21		u
Vanadium	34	0.42		u
Zinc	19	0.83	0.22	u

>LR=overrange B=method blank contamination b=noncompliant u=use y=RL raised

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	QC273998	Cident	:
Seqnum	: 74481400007	Matrix	: Soil	Acctnum	:
Filename	: tr256039	Batchnum	: 96915	Injected	: 29-NOV-2004 08:10
IDF	: 1.0			Units	: mg/Kg

Prep: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Result	RL	Flags
Aluminum	2.1 J	5.0	
Antimony	ND	3.0	u
Arsenic	0.11 J	0.25	u
Barium	ND	0.50	u
Beryllium	ND	0.10	u
Cadmium	ND	0.25	u
Calcium	3.8 J	25	
Chromium	ND	0.50	u
Cobalt	ND	1.0	u
Copper	0.080 J	0.50	u
Iron	1.6 J	5.0	u
Lead	0.20	0.15	B r b*
Magnesium	2.8 J	25	
Manganese	ND	0.50	u
Molybdenum	0.11 J	1.0	u
Nickel	ND	1.0	u
Selenium	ND	0.25	u
Silver	ND	0.25	u
Thallium	ND	0.25	u
Vanadium	ND	0.50	u
Zinc	0.21 J	1.0	u
Titanium	0.33 J	0.50	B a+ b*

+=high bias B=method blank contamination a=ICSA b=noncompliant r=RSD out u=use

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Samplenum:	QC273998	Cident	:
Seqnum	: 74481400008	Matrix	: Soil	Acctnum	:
Filename	: tr256040	Batchnum	: 96915	Injected	: 29-NOV-2004 08:13
IDF	: 1.0			Units	: mg/Kg

Prep: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Result	RL	Flags
Aluminum	0.73 J	5.0	
Antimony	ND	3.0	
Arsenic	ND	0.25	
Barium	ND	0.50	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Calcium	3.2 J	25	
Chromium	0.036 J	0.50	
Cobalt	ND	1.0	
Copper	0.10 J	0.50	
Iron	1.1 J	5.0	
Lead	0.098 J	0.15	B u
Magnesium	2.0 J	25	
Manganese	ND	0.50	
Molybdenum	0.12 J	1.0	
Nickel	ND	1.0	
Selenium	0.26	0.25	B
Silver	ND	0.25	
Thallium	ND	0.25	
Vanadium	ND	0.50	
Zinc	0.22 J	1.0	
Titanium	0.32 J	0.50	B a+ b*

+=high bias B=method blank contamination a=ICSA b=noncompliant u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74481400009	Seqnum	: 74481400010
Filename	: tr256041	Filename	: tr256042
IDF	: 1.0	IDF	: 1.0
Run type	: BS	Run type	: BSD
Samplenum	: QC273999	Samplenum	: QC274000
Matrix	: Soil	Matrix	: Soil
Batchnum	: 96915	Batchnum	: 96915
Inj	: 29-NOV-2004 08:18	Inj	: 29-NOV-2004 08:22
Units	: mg/Kg		

BS: 1.00 g --> 50.0 ml = 50.0 ml/g PDF
BSD: 1.00 g --> 50.0 ml = 50.0 ml/g PDF

Analyte	Spike Conc	BS	%Rec	BSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	1000	1003	100	1023	102	79-120	2	20	
Antimony	100.0	93.00	93	95.50	96	80-120	3	20	u
Arsenic	50.00	47.95	96	49.75	100	80-120	4	20	u
Barium	100.0	95.00	95	97.00	97	80-120	2	20	u
Beryllium	2.500	2.420	97	2.475	99	80-120	2	20	u
Cadmium	10.00	9.400	94	9.550	96	80-120	2	20	u
Calcium	1000	1019	102	1042	104	80-120	2	20	
Chromium	100.0	95.50	96	97.50	98	80-120	2	20	u
Cobalt	25.00	23.65	95	24.15	97	80-120	2	20	u
Copper	12.50	12.30	98	12.60	101	80-120	2	20	u
Iron	1000	977.0	98	997.5	100	80-120	2	20	u
Lead	100.0	95.00	95	96.00	96	80-120	1	20	u
Magnesium	1000	1027	103	1049	105	80-120	2	20	
Manganese	25.00	23.65	95	24.15	97	80-120	2	20	u
Molybdenum	20.00	19.10	96	19.75	99	80-120	3	20	u
Nickel	25.00	23.60	94	24.05	96	80-120	2	20	u
Selenium	50.00	46.90	94	47.70	95	80-120	2	20	u
Silver	10.00	9.800	98	9.950	100	80-120	2	20	u
Thallium	50.00	47.60	95	47.85	96	79-120	1	20	u
Vanadium	25.00	24.20	97	24.75	99	80-120	2	20	u
Zinc	25.00	22.15	89	22.50	90	80-120	2	20	u
Titanium	50.00	49.05	98	50.00	100	80-120	2	20	a+ b*

+=high bias a=ICSA b=noncompliant u=use
Page 1 of 1

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	Instid : MET07
Seqnum : 74481400011	Seqnum : 74481400017	Seqnum : 74481400018
Filename : tr256043	Filename : tr256049	Filename : tr256050
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-005	Samplenum: QC274001	Samplenum: QC274002
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96915	Batchnum : 96915	Batchnum : 96915
Inj : 29-NOV-2004 08:27	Inj : 29-NOV-2004 09:18	Inj : 29-NOV-2004 09:23
Units : mg/Kg		

MSS: 1.20 g --> 50.0 ml = 41.67 ml/g PDF
MS: 1.25 g --> 50.0 ml = 40.0 ml/g PDF
MSD: 1.50 g --> 50.0 ml = 33.33 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	*** usable MSS data not found ***									
Antimony	1.688	66.67	33.96	40	22.97	32	16-120	21	31	u
Arsenic	1.892	33.33	32.72	77	24.73	69	62-120	11	25	u
Barium	193.3	66.67	308.8	**144***	259.0	99	51-137	13	20	u
Beryllium	0.5917	1.667	2.180	79	1.760	70	70-120	8	20	u
Cadmium	0.09458	6.667	6.800	84	5.333	79	61-120	6	20	u
Calcium	493.3	666.7	1092	75	907.7	62	40-149	8	20	
Chromium	11.54	66.67	74.00	78	58.33	70	60-120	8	20	u
Cobalt	17.46	16.67	32.00	73	28.17	64	56-120	3	20	u
Copper	107.1	8.333	117.6	105	103.3	-45	47-144	11	20	: u
Iron	*** usable MSS data not found ***									
Lead	10.46	66.67	73.20	78	58.00	71	47-126	7	28	u
Magnesium	753.8	666.7	1396	80	1175	63	44-152	8	20	
Manganese	*** usable MSS data not found ***									
Molybdenum	0.4292	13.33	12.12	73	9.133	65	57-120	11	20	u
Nickel	15.33	16.67	32.20	84	26.17	65	41-138	11	22	u
Selenium	1.196	33.33	29.20	70	20.40	58	35-122	18	27	u
Silver	ND	6.667	6.160	77	4.767	72	71-120	7	20	u
Thallium	ND	33.33	30.68	77	24.00	72	53-120	6	23	u
Vanadium	33.54	16.67	46.00	62	40.33	**41***	48-136	7	20	u
Zinc	18.92	16.67	34.28	77	28.57	58	38-144	9	20	u
Titanium	*** usable MSS data not found ***									

:=recovery not meaningful u=use
Page 1 of 1

Method: 6010B Standard: blank
Run Time: 11/29/04 07:11:29

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.006	.007	.001	.001	-.411	.009	.000
SDev	.002	.002	.001	.001	.004	.001	.001
%RSD	36.1	28.9	89.4	101.	.923	8.12	129.
#1	-.008	.009	.000	.002	-.408	.010	.000
#2	-.005	.006	.001	.000	-.414	.009	.001

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.016	.006	.002	-.001	.005	-.006
SDev	.000	.001	.001	.002	.001	.000	.003
%RSD	49.5	7.85	10.0	103.	114.	5.71	44.6
#1	-.001	.016	.005	.001	-.002	.005	-.004
#2	-.001	.017	.006	.003	-.000	.005	-.007

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.007	-.000	-.006	.000	.046	.0646	.0004
SDev	.001	.000	.001	.000	.000	.0000	.0001
%RSD	6.89	106.	9.87	92.1	.393	.0215	22.53
#1	.007	-.001	-.006	.001	.046	.0646	.0003
#2	.007	-.000	-.006	.000	.046	.0646	.0005

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0003	.0003	.004	.391
SDev	.0002	.0002	.002	.001
%RSD	70.86	76.29	50.1	.329
#1	-.0002	.0001	.005	.390
#2	-.0005	.0004	.002	.392

Method: 6010B Standard: cst hi
Run Time: 11/29/04 07:16:06

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.01	.567	.221	16.0	3.34	1.06	.245
SDev	.01	.001	.001	.0	.00	.00	.000
%RSD	.507	.247	.566	.086	.021	.155	.000
#1	1.02	.568	.220	16.0	3.34	1.06	.245
#2	1.01	.566	.222	16.0	3.34	1.06	.245

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.710	.562	.791	.761	1.71	1.88	.237
SDev	.000	.001	.000	.001	.01	.00	.004
%RSD	.050	.131	.041	.145	.574	.065	1.91
#1	.711	.563	.791	.761	1.70	1.88	.240
#2	.710	.562	.791	.760	1.71	1.87	.233

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.272	.311	.141	.930	.200	.1810	.3566
SDev	.001	.002	.001	.001	.000	.0004	.0014
%RSD	.198	.490	.403	.141	.209	.2143	.4017
#1	.272	.312	.140	.929	.200	.1808	.3556
#2	.271	.309	.141	.931	.200	.1813	.3576

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1262	.1868	1.16	7.44
SDev	.0002	.0013	.00	.00
%RSD	.1419	.6710	.134	.049
#1	.1261	.1859	1.16	7.44
#2	.1263	.1877	1.16	7.45

Standardization Report 11/29/04 07:19:53 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	976.237	6.08548	11/29/04 07:16:06
Sb206A	206.832	Multiple	Standards	1750.53	-12.3848	11/29/04 07:16:06
As1890	189.042	Multiple	Standards	2270.06	-1.77109	11/29/04 07:16:06
Ba4934	493.409	Multiple	Standards	62.3500	-.062606	11/29/04 07:16:06
Be3130	313.042	Multiple	Standards	25.7509	10.5804	11/29/04 07:16:06
Cd2265	226.502	Multiple	Standards	95.1893	-.862978	11/29/04 07:16:06
Cr2677	267.716	Multiple	Standards	818.675	-.386754	11/29/04 07:16:06
Co2286	228.616	Multiple	Standards	704.735	.621925	11/29/04 07:16:06
Cu3247	324.754	Multiple	Standards	366.482	-6.02582	11/29/04 07:16:06
Pb2203	220.351	Multiple	Standards	637.130	-3.56829	11/29/04 07:16:06
Pb220A	220.352	Multiple	Standards	653.363	-1.27455	11/29/04 07:16:06
Mo2020	202.030	Multiple	Standards	585.959	.756360	11/29/04 07:16:06
Ni2316	231.604	Multiple	Standards	267.167	-1.26603	11/29/04 07:16:06
Se1960	196.021	Multiple	Standards	2065.47	11.6143	11/29/04 07:16:06
Se196A	196.022	Multiple	Standards	1885.46	-13.1103	11/29/04 07:16:06
Ag3280	328.068	Multiple	Standards	322.022	.105576	11/29/04 07:16:06
Tl1908	190.864	Multiple	Standards	3436.61	20.7938	11/29/04 07:16:06
V_2924	292.402	Multiple	Standards	537.835	-.253511	11/29/04 07:16:06
Zn2138	213.856	Multiple	Standards	669.677	-30.6748	11/29/04 07:16:06
Al3082	308.215	Multiple	Standards	8747.58	-565.049	11/29/04 07:16:06
Ca3179	317.933	Multiple	Standards	5614.34	-2.18865	11/29/04 07:16:06
Fe2714	271.441	Multiple	Standards	8272.75	2.71711	11/29/04 07:16:06
Mg2790	279.079	Multiple	Standards	10716.2	-2.85986	11/29/04 07:16:06
Mn2576	257.610	Multiple	Standards	86.4096	-.318889	11/29/04 07:16:06
Pb sum	220.353	NONE	NONE	1.00000	.000000	*11/29/04 07:16:06
Sb sum	206.838	NONE	NONE	1.00000	.000000	*11/29/04 07:16:06
Se sum	196.026	NONE	NONE	1.00000	.000000	*11/29/04 07:16:06
Ti3349	334.941	Multiple	Standards	141.775	-55.3929	11/29/04 07:16:06

Analysis Report 11/29/04 07:23:27 AM page 1

Method: 6010B Sample Name: 04ws1891 Operator: pps
Run Time: 11/29/04 07:20:15
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	994.	993.	495.	986.	99.5	99.5	198.
SDev	1.	6.	3.	5.	.4	1.2	1.
%RSD	.119	.647	.524	.532	.432	1.16	.659
#1	995.	997.	497.	990.	99.8	100.	199.
#2	993.	988.	493.	982.	99.2	98.7	197.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	497.	198.	499.	500.	987.	496.	495.
SDev	3.	1.	2.	5.	7.	4.	2.
%RSD	.539	.696	.312	.923	.670	.791	.430
#1	498.	199.	500.	503.	982.	499.	496.
#2	495.	197.	498.	496.	992.	493.	493.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	495.	99.8	485.	497.	99.0	979.3	1987.
SDev	5.	.9	5.	3.	.8	7.8	8.
%RSD	1.08	.871	1.08	.552	.842	.7988	.4088
#1	499.	100.	481.	499.	99.6	984.9	1992.
#2	491.	99.2	489.	495.	98.4	973.8	1981.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	996.2	1983.	99.5	500.	993.	495.	991.
SDev	6.1	14.	.6	4.	5.	4.	5.
%RSD	.6152	.7159	.609	.720	.471	.866	.535
#1	1001.	1993.	100.0	502.	997.	498.	995.
#2	991.9	1973.	99.1	497.	990.	492.	987.

Analysis Report 11/29/04 07:27:11 AM page 1

Method: 6010B Sample Name: 04ws2066 Operator: pps
Run Time: 11/29/04 07:23:56
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	509.	499.	255.	498.	50.3	51.3	101.
SDev	1.	2.	1.	.	.0	.2	.
%RSD	.220	.336	.416	.100	.052	.331	.053
#1	508.	498.	256.	498.	50.2	51.4	101.
#2	510.	501.	254.	498.	50.3	51.2	101.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	248.	101.	251.	255.	515.	252.	243.
SDev	.	1.	5.	3.	3.	.	5.
%RSD	.168	.908	2.11	1.11	.581	.185	2.09
#1	248.	102.	255.	257.	513.	252.	240.
#2	248.	100.	248.	253.	517.	252.	247.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	251.	52.9	247.	251.	49.0	496.1	1025.
SDev	3.	1.2	6.	.	.0	2.4	1.
%RSD	1.26	2.20	2.31	.058	.031	.4749	.1164
#1	249.	53.8	251.	251.	49.0	497.8	1024.
#2	253.	52.1	242.	251.	49.0	494.4	1025.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	527.8	1043.	49.7	254.	503.	249.	516.
SDev	3.3	1.	.0	4.	1.	4.	.
%RSD	.6248	.1065	.076	1.44	.297	1.53	.023
#1	530.1	1043.	49.7	257.	502.	246.	516.
#2	525.5	1042.	49.8	251.	504.	251.	516.

Analysis Report 11/29/04 07:38:01 AM page 1

Method: 6010B Sample Name: icb Operator: pps
Run Time: 11/29/04 07:31:32
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.39	-8.46	-.972	.065	-.603	-.374	-.626
SDev	.58	2.15	4.608	.044	.026	.149	.193
%RSD	41.9	25.4	474.	68.1	4.28	39.8	30.8
#1	.978	-6.94	-4.23	.033	-.622	-.479	-.762
#2	1.80	-9.98	2.29	.096	-.585	-.269	-.489

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.365	.608	-.292	.682	2.94	-.510	-13.4
SDev	.104	.162	1.859	2.71	.91	.078	.8
%RSD	28.7	26.7	637.	398.	31.0	15.3	5.69
#1	-.438	.494	1.02	-1.24	2.29	-.565	-12.9
#2	-.291	.723	-1.61	2.60	3.58	-.455	-14.0

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.399	-1.11	-1.71	-.458	1.59	3.021	3.304
SDev	1.901	.13	.19	.252	.09	.708	.171
%RSD	477.	11.8	11.3	55.0	5.75	23.43	5.182
#1	.945	-1.02	-1.58	-.637	1.65	2.521	3.425
#2	-1.74	-1.21	-1.85	-.280	1.52	3.522	3.183

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.8681	2.936	-.155	.357	-5.17	-4.75	3.31
SDev	4.6354	.007	.048	1.19	1.24	1.52	.17
%RSD	534.0	.2283	31.0	333.	23.9	32.1	5.28
#1	2.410	2.941	-.189	-.484	-4.30	-3.67	3.19
#2	-4.146	2.932	-.121	1.20	-6.05	-5.82	3.43

Analysis Report 11/29/04 07:48:30 AM page 1

Method: 6010B Sample Name: 04ws1931 Operator: pps
Run Time: 11/29/04 07:38:31
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	66.4	51.2	6.98	9.77	1.87	4.81	9.95
SDev	2.4	1.2	5.26	.05	.03	.40	.27
%RSD	3.63	2.44	75.4	.490	1.36	8.29	2.73
#1	68.1	52.1	3.26	9.74	1.89	4.52	10.1
#2	64.7	50.3	10.7	9.80	1.85	5.09	9.76

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.4	10.8	2.55	3.89	20.7	18.8	5.64
SDev	.0	.8	1.00	.92	.4	.1	6.47
%RSD	.003	7.39	39.3	23.7	2.05	.720	115.
#1	19.4	11.4	3.25	4.54	21.0	18.9	1.06
#2	19.4	10.3	1.84	3.24	20.4	18.7	10.2

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.09	4.60	3.12	10.3	21.5	115.4	220.5
SDev	.35	.15	5.95	.1	.2	1.6	.2
%RSD	4.38	3.16	191.	.677	.811	1.429	.0762
#1	8.34	4.50	-1.09	10.2	21.3	116.6	220.6
#2	7.84	4.71	7.32	10.3	21.6	114.2	220.3

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	94.94	207.6	9.74	3.44	56.3	7.27	4.41
SDev	2.57	2.1	.04	.95	1.6	1.92	.23
%RSD	2.704	1.005	.385	27.5	2.91	26.4	5.24
#1	96.76	209.1	9.76	4.11	57.4	5.91	4.24
#2	93.13	206.2	9.71	2.77	55.1	8.63	4.57

Method: 6010B Sample Name: 04ws1702 Operator: pps
Run Time: 11/29/04 07:51:26
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.7	-13.4	-5.20	-.034	-.777	1.53	3.38
SDev	4.7	.2	.50	.025	.032	.05	.45
%RSD	23.0	1.47	9.57	73.9	4.16	3.57	13.4
#1	17.3	-13.5	-4.85	-.016	-.754	1.49	3.70
#2	24.0	-13.2	-5.56	-.052	-.800	1.57	3.06

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.693	-1.31	13.5	-8.95	.822	2.27	1.98
SDev	.371	.04	2.1	.68	1.47	.24	9.98
%RSD	53.6	2.73	15.4	7.60	179.	10.3	504.
#1	.955	-1.33	12.0	-9.43	-.218	2.44	-5.07
#2	.430	-1.28	15.0	-8.47	1.86	2.11	9.04

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.89	-.236	-8.14	-2.05	1.16	524300.	479900.
SDev	2.59	.499	8.92	.23	.07	594.	46.
%RSD	43.9	211.	110.	11.1	6.09	.1133	.0095
#1	7.73	.117	-1.83	-1.89	1.11	524700.	479900.
#2	4.06	-.589	-14.4	-2.21	1.21	523900.	479800.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	185400.	539400.	1.88	-1.47	-2.02	4.59	31.6
SDev	43.	107.	.11	1.14	1.71	1.60	.1
%RSD	.0230	.0199	5.70	78.0	84.9	34.8	.389
#1	185400.	539300.	1.95	-2.28	-3.23	3.46	31.7
#2	185500.	539500.	1.80	-.658	-.807	5.72	31.5

Analysis Report 11/29/04 08:02:05 AM page 1

Method: 6010B Sample Name: 04ws1841 Operator: pps
Run Time: 11/29/04 07:58:10
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	532.	526.	528.	482.	496.	946.	484.
SDev	2.	12.	14.	10.	10.	19.	10.
%RSD	.346	2.34	2.58	1.99	2.08	2.03	2.12
#1	530.	517.	519.	476.	489.	932.	477.
#2	533.	535.	538.	489.	503.	960.	491.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	491.	512.	1020.	983.	501.	923.	543.
SDev	11.	11.	16.	21.	18.	21.	13.
%RSD	2.18	2.10	1.60	2.10	3.59	2.29	2.37
#1	484.	505.	1010.	969.	488.	909.	534.
#2	499.	520.	1030.	998.	514.	938.	552.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	530.	968.	482.	489.	963.	513200.	473200.
SDev	14.	19.	14.	10.	20.	10752.	9516.
%RSD	2.58	1.96	2.88	2.02	2.05	2.095	2.011
#1	520.	955.	472.	482.	949.	505600.	466500.
#2	540.	981.	492.	496.	977.	520800.	479900.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	182000.	530200.	480.	995.	528.	534.	20900.
SDev	3870.	11389.	10.	19.	9.	13.	418.
%RSD	2.126	2.148	2.00	1.93	1.67	2.51	2.00
#1	179300.	522100.	473.	981.	522.	525.	20600.
#2	184700.	538300.	487.	1010.	534.	544.	21200.

Analysis Report 11/29/04 08:13:29 AM page 1

Method: 6010B Sample Name: qc273998 Operator: pps
Run Time: 11/29/04 08:10:12
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.88	-8.54	2.23	.128	-.105	.254	.260
SDev	3.84	3.62	2.43	.115	.067	.146	.471
%RSD	55.9	42.4	109.	89.6	64.1	57.5	181.
#1	4.16	-11.1	.510	.209	-.057	.151	.593
#2	9.59	-5.98	3.94	.047	-.153	.358	-.073

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.296	1.60	3.67	4.29	2.19	-.345	-23.0
SDev	.042	.64	2.06	5.74	.43	.024	9.8
%RSD	14.1	40.0	56.1	134.	19.8	7.09	42.6
#1	-.266	2.05	5.12	.229	2.50	-.363	-16.0
#2	-.325	1.15	2.21	8.35	1.89	-.328	-29.9

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.33	-1.05	-3.92	.299	4.22	42.88	76.38
SDev	2.75	.21	1.82	.051	.01	9.55	5.92
%RSD	29.5	20.5	46.5	16.9	.225	22.28	7.754
#1	11.3	-1.20	-5.21	.263	4.21	49.63	80.56
#2	7.39	-.896	-2.63	.335	4.22	36.12	72.19

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	32.29	56.27	.664	4.08	-3.40	-1.43	6.61
SDev	14.14	4.71	.016	3.14	3.70	5.10	.07
%RSD	43.80	8.377	2.38	77.0	109.	356.	1.12
#1	22.29	59.60	.675	1.86	-6.02	2.17	6.55
#2	42.29	52.93	.653	6.30	-.789	-5.03	6.66

Method: 6010B Sample Name: qc273998 Operator: pps
Run Time: 11/29/04 08:13:55
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.248	-6.32	-.536	.187	-.044	.327	.712
SDev	6.48	.44	4.737	.011	.064	.093	.242
%RSD	2610.	6.92	884.	5.77	145.	28.5	34.0
#1	-4.33	-6.01	2.81	.195	.001	.392	.884
#2	4.83	-6.63	-3.89	.179	-.089	.261	.541

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.297	1.99	4.75	.572	2.34	.586	-8.49
SDev	.652	.35	3.06	1.17	.81	.837	.75
%RSD	219.	17.6	64.6	205.	34.8	143.	8.81
#1	.758	2.24	6.91	-.258	2.92	1.18	-9.02
#2	-.164	1.75	2.58	1.40	1.77	-.006	-7.96

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.0	.566	-1.94	.515	4.49	14.59	63.47
SDev	1.1	.839	5.55	.026	.79	17.66	2.83
%RSD	8.96	148.	287.	5.04	17.6	121.0	4.454
#1	11.3	1.16	-5.86	.497	5.05	27.08	65.47
#2	12.8	-.028	1.99	.533	3.93	2.102	61.47

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.07	39.27	.620	1.96	-4.13	5.20	6.46
SDev	1.23	5.65	.036	.24	1.87	.97	1.68
%RSD	5.574	14.38	5.82	12.2	45.2	18.6	25.9
#1	22.94	43.27	.595	2.13	-5.45	4.51	7.65
#2	21.20	35.28	.646	1.79	-2.81	5.88	5.28

Analysis Report 11/29/04 08:21:48 AM page 1

Method: 6010B Sample Name: qc273999 Operator: pps
Run Time: 11/29/04 08:18:10
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1830.	1870.	959.	1900.	48.4	188.	1910.
SDev	74.	10.	8.	10.	.0	1.	.
%RSD	4.07	.523	.802	.515	.095	.577	.026
#1	1770.	1870.	953.	1910.	48.5	189.	1910.
#2	1880.	1880.	964.	1900.	48.4	187.	1910.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	473.	246.	1930.	1890.	382.	472.	968.
SDev	1.	1.	3.	56.	8.	.	6.
%RSD	.173	.256	.168	2.98	2.01	.081	.651
#1	472.	246.	1930.	1850.	377.	472.	963.
#2	473.	247.	1940.	1920.	388.	472.	972.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	923.	196.	952.	484.	443.	20050.	20380.
SDev	37.	1.	24.	.	.	26.	27.
%RSD	4.04	.482	2.56	.074	.021	.1284	.1344
#1	896.	196.	935.	484.	443.	20030.	20360.
#2	949.	197.	969.	485.	443.	20070.	20400.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19540.	20540.	473.	1900.	1860.	938.	981.
SDev	6.	37.	1.	39.	31.	27.	2.
%RSD	.0323	.1786	.153	2.03	1.69	2.88	.158
#1	19530.	20520.	473.	1870.	1840.	919.	980.
#2	19540.	20570.	474.	1930.	1880.	957.	982.

Analysis Report 11/29/04 08:25:53 AM page 1

Method: 6010B Sample Name: qc274000 Operator: pps
Run Time: 11/29/04 08:22:16
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1870.	1930.	995.	1940.	49.5	191.	1950.
SDev	76.	21.	5.	37.	.7	4.	25.
%RSD	4.07	1.11	.545	1.88	1.42	2.03	1.30
#1	1820.	1940.	999.	1970.	50.0	194.	1960.
#2	1930.	1910.	991.	1920.	49.0	188.	1930.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	483.	252.	1970.	1900.	395.	481.	990.
SDev	7.	3.	36.	53.	3.	9.	23.
%RSD	1.45	1.24	1.83	2.81	.713	1.80	2.37
#1	487.	254.	1990.	1860.	393.	488.	1010.
#2	478.	250.	1940.	1940.	397.	475.	974.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	936.	199.	957.	495.	450.	20460.	20830.
SDev	35.	1.	3.	6.	5.	205.	243.
%RSD	3.72	.577	.286	1.29	1.20	1.003	1.166
#1	911.	200.	955.	500.	453.	20600.	21000.
#2	960.	198.	959.	491.	446.	20310.	20660.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19950.	20970.	483.	1920.	1910.	954.	1000.
SDev	255.	266.	6.	24.	11.	15.	11.
%RSD	1.277	1.270	1.22	1.22	.580	1.61	1.14
#1	20130.	21150.	487.	1910.	1900.	943.	1010.
#2	19770.	20780.	479.	1940.	1920.	965.	997.

Method: 6010B Sample Name: 176248-005 Operator: pps
Run Time: 11/29/04 08:27:50
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	47.3	37.1	45.4	4640.	14.2	2.27	277.
SDev	22.4	12.8	9.1	42.	.5	.94	.
%RSD	47.4	34.4	20.1	.894	3.56	41.2	.067
#1	31.5	46.1	51.9	4670.	14.5	2.93	277.
#2	63.2	28.0	39.0	4620.	13.8	1.61	277.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	419.	2570.	277.	238.	10.3	368.	14.0
SDev	1.	7.	12.	28.	3.4	1.	25.0
%RSD	.291	.279	4.26	11.8	33.2	.222	179.
#1	420.	2570.	285.	218.	12.7	368.	31.7
#2	418.	2580.	269.	258.	7.90	367.	-3.73

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	36.1	-8.35	-19.7	805.	454.	194500.	11840.
SDev	16.1	.14	2.2	10.	2.	602.	38.
%RSD	44.6	1.68	11.0	1.30	.353	.3096	.3179
#1	24.7	-8.25	-18.2	813.	452.	194100.	11810.
#2	47.5	-8.45	-21.2	798.	455.	194900.	11860.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	632900.	18090.	49000.	251.	40.5	28.7	11100.
SDev	2290.	75.	171.	15.	1.0	2.4	44.
%RSD	.3618	.4155	.349	5.88	2.54	8.34	.401
#1	631200.	18040.	48900.	241.	41.2	27.0	11100.
#2	634500.	18140.	49100.	262.	39.8	30.4	11100.

Analysis Report 11/29/04 08:45:24 AM page 1

Method: 6010B Sample Name: qc274003 Operator: pps
Run Time: 11/29/04 08:41:33
Comment: 96915,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.09	-1.91	10.9	860.	2.46	-.036	55.0
SDev	11.2	3.08	11.7	14.	.26	.311	1.3
%RSD	159.	161.	108.	1.58	10.6	870.	2.28
#1	-.861	.269	19.2	870.	2.64	.184	55.9
#2	15.0	-4.09	2.60	851.	2.27	-.256	54.1

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	83.3	485.	55.2	44.4	2.79	73.2	-4.61
SDev	1.6	3.	4.4	10.0	2.61	2.0	1.69
%RSD	1.93	.704	8.05	22.5	93.4	2.78	36.6
#1	84.5	487.	58.3	37.4	4.63	74.6	-3.42
#2	82.2	482.	52.0	51.5	.949	71.7	-5.81

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.31	-1.47	-2.83	157.	91.4	36450.	2432.
SDev	6.74	1.08	.60	4.	.6	190.	14.
%RSD	107.	73.4	21.2	2.36	.665	.5199	.5700
#1	1.55	-.706	-3.25	160.	91.8	36590.	2442.
#2	11.1	-2.23	-2.41	155.	91.0	36320.	2422.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	122600.	3581.	8230.	48.0	1.09	2.67	2100.
SDev	740.	26.	47.	5.2	1.70	3.93	13.
%RSD	.6039	.7191	.573	10.8	155.	147.	.611
#1	123100.	3599.	8260.	44.4	-.108	-.108	2110.
#2	122100.	3562.	8190.	51.7	2.29	5.45	2090.

Method: 6010B Sample Name: qc274003 Operator: pps
Run Time: 11/29/04 08:46:52
Comment: 96915,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.0	-6.98	7.42	954.	2.63	-.181	60.8
SDev	5.8	.54	4.91	2.	.01	.117	.2
%RSD	30.6	7.66	66.2	.174	.278	64.7	.323
#1	14.9	-6.60	3.95	955.	2.62	-.098	60.7
#2	23.1	-7.36	10.9	952.	2.63	-.265	61.0

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	92.2	543.	59.4	53.5	1.83	81.0	-9.91
SDev	.7	2.	1.2	3.8	.71	.1	8.61
%RSD	.749	.311	2.03	7.09	38.7	.151	86.9
#1	92.7	542.	60.3	50.8	2.33	81.1	-3.82
#2	91.8	545.	58.6	56.2	1.33	80.9	-16.0

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16.2	-1.87	-.683	175.	101.	40860.	2654.
SDev	7.5	1.02	.901	.	.	149.	7.
%RSD	46.0	54.4	132.	.187	.193	.3657	.2619
#1	11.0	-1.15	-.046	175.	101.	40750.	2649.
#2	21.5	-2.59	-1.32	174.	101.	40960.	2659.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	137100.	4016.	9240.	55.5	1.67	7.53	2350.
SDev	413.	12.	25.	2.1	1.58	2.11	7.
%RSD	.3013	.2910	.271	3.83	94.6	28.1	.315
#1	136800.	4007.	9220.	54.0	.554	6.03	2340.
#2	137300.	4024.	9260.	57.0	2.79	9.02	2350.

Analysis Report 11/29/04 08:58:14 AM page 1

Method: 6010B Sample Name: qc274004 Operator: pps
Run Time: 11/29/04 08:54:17
Comment: 96915,04ss171,0.1/10,04ss172/0.1/10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1560.	1570.	795.	5910.	51.9	146.	1760.
SDev	56.	5.	3.	10.	.1	2.	4.
%RSD	3.58	.303	.368	.172	.267	1.03	.240
#1	1520.	1570.	797.	5920.	52.0	147.	1760.
#2	1600.	1560.	793.	5910.	51.8	145.	1760.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	783.	2700.	1780.	1730.	311.	713.	793.
SDev	1.	9.	7.	38.	6.	2.	12.
%RSD	.096	.327	.381	2.17	2.02	.213	1.52
#1	783.	2700.	1790.	1700.	307.	714.	784.
#2	784.	2710.	1780.	1750.	316.	712.	801.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	781.	146.	696.	1160.	788.	207600.	27740.
SDev	31.	.	8.	1.	2.	808.	57.
%RSD	3.93	.174	1.15	.077	.286	.3890	.2042
#1	760.	146.	690.	1160.	787.	207000.	27700.
#2	803.	146.	701.	1160.	790.	208200.	27780.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	633500.	34130.	48000.	1740.	1560.	785.	11600.
SDev	1447.	76.	152.	23.	15.	24.	37.
%RSD	.2284	.2230	.316	1.30	.989	3.12	.317
#1	632500.	34070.	47800.	1730.	1550.	768.	11600.
#2	634600.	34180.	48100.	1760.	1580.	802.	11600.

Analysis Report 11/29/04 09:14:07 AM page 1

Method: 6010B Sample Name: 04ws2067 Operator: pps
Run Time: 11/29/04 09:10:51
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	509.	485.	244.	485.	48.3	49.0	98.1
SDev	3.	2.	3.	5.	.3	.1	1.1
%RSD	.592	.384	1.22	.935	.688	.220	1.11
#1	506.	484.	246.	488.	48.6	49.1	98.9
#2	511.	487.	241.	482.	48.1	48.9	97.3

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	240.	98.8	241.	244.	496.	244.	234.
SDev	2.	1.3	3.	1.	.	2.	6.
%RSD	.745	1.33	1.24	.361	.098	.944	2.55
#1	241.	99.7	239.	245.	497.	246.	230.
#2	238.	97.9	243.	244.	496.	243.	238.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250.	50.1	238.	243.	48.7	456.2	986.1
SDev	6.	.6	5.	2.	.5	6.6	7.2
%RSD	2.52	1.22	2.29	.821	1.01	1.444	.7291
#1	255.	50.5	234.	244.	49.0	460.9	991.2
#2	246.	49.6	241.	241.	48.3	451.6	981.0

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493.7	988.4	48.2	243.	493.	245.	503.
SDev	7.5	6.0	.5	.	2.	2.	5.
%RSD	1.520	.6040	1.06	.169	.456	.907	.948
#1	499.0	992.6	48.5	243.	491.	246.	506.
#2	488.4	984.2	47.8	243.	495.	243.	499.

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 11/29/04 09:14:54
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	13.2	-9.33	1.10	.507	-.634	-.161	.286
SDev	6.1	4.22	1.12	.033	.044	.127	.327
%RSD	46.2	45.3	101.	6.56	6.92	78.5	115.
#1	17.5	-12.3	1.90	.530	-.603	-.072	.054
#2	8.89	-6.35	.313	.483	-.665	-.251	.517

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.022	3.17	-.288	1.05	4.77	.266	-4.70
SDev	.078	.46	3.465	1.29	2.20	.083	2.33
%RSD	359.	14.6	1200.	124.	46.1	31.2	49.6
#1	-.033	2.84	2.16	.132	6.33	.325	-6.34
#2	.077	3.49	-2.74	1.96	3.22	.208	-3.05

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3.90	.270	-1.60	.258	3.83	-30.20	21.91
SDev	2.62	.294	11.31	.339	.21	2.89	.11
%RSD	67.3	109.	707.	131.	5.54	9.565	.5007
#1	2.04	.062	6.40	.497	3.68	-28.16	21.99
#2	5.75	.479	-9.60	.019	3.98	-32.24	21.83

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	27.32	4.060	1.40	.601	-1.82	1.03	8.00
SDev	3.51	.607	.19	.293	.78	2.53	.04
%RSD	12.85	14.95	13.6	48.7	42.9	245.	.476
#1	29.80	3.631	1.53	.808	-2.37	-.754	7.98
#2	24.84	4.489	1.26	.394	-1.27	2.82	8.03

Method: 6010B Sample Name: qc274001 Operator: pps
Run Time: 11/29/04 09:18:56
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	840.	854.	818.	7720.	54.5	170.	1850.
SDev	43.	3.	15.	116.	.6	3.	14.
%RSD	5.17	.294	1.80	1.50	1.14	1.72	.750
#1	809.	852.	828.	7800.	54.9	172.	1860.
#2	871.	855.	807.	7640.	54.0	168.	1840.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	800.	2940.	1840.	1820.	303.	805.	713.
SDev	8.	21.	12.	52.	1.	11.	5.
%RSD	.953	.711	.628	2.85	.221	1.32	.723
#1	805.	2960.	1850.	1780.	303.	812.	717.
#2	794.	2930.	1840.	1860.	302.	797.	710.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	739.	154.	767.	1150.	857.	238000.	27290.
SDev	25.	1.	3.	17.	6.	1681.	204.
%RSD	3.36	.412	.420	1.44	.720	.7065	.7459
#1	721.	154.	764.	1160.	861.	239200.	27430.
#2	756.	153.	769.	1140.	853.	236800.	27150.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	594000.	34910.	48800.	1830.	849.	730.	11200.
SDev	4040.	228.	318.	31.	16.	15.	72.
%RSD	.6802	.6524	.651	1.68	1.90	2.03	.642
#1	596800.	35080.	49000.	1810.	838.	720.	11300.
#2	591100.	34750.	48500.	1850.	861.	741.	11200.

Analysis Report 11/29/04 09:26:38 AM

Method: 6010B Sample Name: qc274002 Operator: pps
Run Time: 11/29/04 09:23:01
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	673.	697.	742.	7770.	52.8	160.	1750.
SDev	52.	4.	1.	67.	.6	2.	2.
%RSD	7.71	.543	.098	.868	1.10	1.23	.140
#1	636.	700.	742.	7820.	53.2	161.	1750.
#2	710.	695.	741.	7720.	52.3	158.	1750.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	845.	3100.	1770.	1720.	274.	785.	620.
SDev	.	2.	14.	78.	.	3.	24.
%RSD	.051	.076	.815	4.55	.063	.411	3.91
#1	845.	3100.	1780.	1670.	274.	787.	637.
#2	845.	3100.	1760.	1780.	275.	783.	603.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	607.	143.	720.	1210.	857.	258500.	27230.
SDev	45.	.	12.	11.	.	293.	9.
%RSD	7.36	.016	1.71	.879	.001	.1133	.0344
#1	576.	143.	711.	1220.	857.	258300.	27230.
#2	639.	143.	728.	1210.	857.	258700.	27220.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	616400.	35250.	55700.	1740.	689.	612.	11300.
SDev	112.	17.	33.	47.	15.	22.	2.
%RSD	.0182	.0485	.060	2.73	2.14	3.55	.021
#1	616500.	35260.	55600.	1710.	679.	596.	11300.
#2	616300.	35240.	55700.	1770.	700.	627.	11300.

Analysis Report 11/29/04 09:32:12 AM page 1

Method: 6010B Sample Name: 176248-001 Operator: pps
Run Time: 11/29/04 09:28:34
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	28.7	9.44	69.4	392.	2.41	5.81	748.
SDev	17.1	12.4	3.6	9.	.14	.09	11.
%RSD	59.4	132.	5.15	2.19	6.00	1.48	1.50
#1	16.7	18.2	71.9	398.	2.51	5.87	756.
#2	40.8	.650	66.9	386.	2.31	5.75	740.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	112.	103.	149.	132.	4.88	439.	-8.81
SDev	2.	3.	7.	10.	.78	9.	10.19
%RSD	2.12	2.73	4.65	7.34	16.0	1.94	116.
#1	114.	105.	154.	125.	5.43	445.	-1.61
#2	110.	101.	144.	139.	4.33	433.	-16.0

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.71	-2.12	-1.08	681.	396.	94410.	58620.
SDev	5.73	.16	12.02	12.	5.	900.	744.
%RSD	59.0	7.38	1110.	1.83	1.32	.9536	1.269
#1	5.66	-2.23	7.42	690.	400.	95050.	59150.
#2	13.8	-2.01	-9.58	672.	393.	93770.	58090.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	236800.	46540.	3310.	138.	15.9	3.54	10400.
SDev	2967.	553.	46.	4.	2.6	.43	128.
%RSD	1.253	1.189	1.39	3.01	16.4	12.1	1.24
#1	238900.	46930.	3340.	135.	17.7	3.24	10500.
#2	234700.	46150.	3280.	141.	14.0	3.84	10300.

Analysis Report 11/29/04 09:36:17 AM page 1

Method: 6010B Sample Name: 176248-002 Operator: pps
Run Time: 11/29/04 09:32:39
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	24.7	10.5	65.5	495.	2.23	5.72	700.
SDev	10.4	5.8	4.9	4.	.44	.57	1.
%RSD	42.0	55.5	7.54	.893	19.9	10.0	.117
#1	17.4	14.6	69.0	498.	2.54	6.13	700.
#2	32.0	6.37	62.0	492.	1.92	5.32	701.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	111.	115.	169.	149.	4.27	443.	-2.37
SDev	.	1.	4.	9.	.73	.	9.12
%RSD	.108	1.12	2.33	5.85	17.1	.037	385.
#1	111.	116.	172.	143.	4.78	443.	4.08
#2	111.	114.	166.	155.	3.75	443.	-8.82

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4.52	-1.55	-24.1	659.	395.	90810.	51120.
SDev	9.87	.01	2.3	4.	2.	163.	116.
%RSD	219.	.725	9.51	.551	.390	.1799	.2274
#1	-2.46	-1.54	-22.5	662.	394.	90690.	51030.
#2	11.5	-1.55	-25.7	657.	396.	90930.	51200.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	233700.	46360.	3850.	156.	15.2	2.22	9920.
SDev	692.	155.	8.	5.	.4	3.54	26.
%RSD	.2961	.3334	.218	2.89	2.74	159.	.263
#1	233300.	46250.	3850.	153.	15.5	-.283	9910.
#2	234200.	46470.	3860.	159.	14.9	4.73	9940.

Method: 6010B Sample Name: 176248-003 Operator: pps
Run Time: 11/29/04 09:36:44
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	30.6	8.32	73.2	556.	2.50	6.51	961.
SDev	8.8	.06	5.8	4.	.04	.20	3.
%RSD	28.7	.689	7.98	.717	1.64	3.04	.308
#1	24.4	8.36	77.3	559.	2.47	6.65	963.
#2	36.8	8.28	69.1	553.	2.53	6.37	959.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	137.	111.	73.5	65.2	3.85	505.	-4.24
SDev	.	.	2.9	4.4	.81	3.	3.62
%RSD	.003	.269	4.00	6.76	21.0	.630	85.4
#1	137.	111.	75.6	62.1	4.42	508.	-1.68
#2	137.	110.	71.5	68.3	3.28	503.	-6.79

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.9	-2.12	-16.6	817.	435.	117500.	59360.
SDev	2.4	.19	1.3	5.	2.	251.	178.
%RSD	16.2	8.96	7.65	.584	.378	.2133	.2996
#1	13.2	-1.99	-15.7	820.	436.	117700.	59490.
#2	16.7	-2.26	-17.5	814.	434.	117300.	59230.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	279400.	51020.	4500.	68.0	15.8	8.55	12300.
SDev	828.	129.	11.	2.0	2.9	.41	33.
%RSD	.2964	.2532	.234	2.88	18.3	4.83	.268
#1	280000.	51110.	4510.	66.6	13.7	8.26	12300.
#2	278800.	50930.	4500.	69.4	17.8	8.85	12200.

Analysis Report 11/29/04 09:44:26 AM page 1

Method: 6010B Sample Name: 176248-004 Operator: pps
Run Time: 11/29/04 09:40:49
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	40.0	8.80	30.5	3700.	12.2	9.54	252.
SDev	6.4	7.43	1.0	24.	.3	.36	2.
%RSD	15.9	84.5	3.33	.656	2.57	3.75	.771
#1	35.5	14.1	29.8	3680.	11.9	9.28	251.
#2	44.6	3.55	31.3	3710.	12.4	9.79	253.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	473.	2340.	203.	192.	5.26	317.	-5.41
SDev	4.	19.	5.	7.	1.25	1.	5.28
%RSD	.785	.819	2.54	3.41	23.8	.349	97.6
#1	470.	2320.	207.	187.	4.37	316.	-1.67
#2	475.	2350.	200.	197.	6.14	318.	-9.14

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	28.0	-6.58	-21.5	660.	310.	167000.	19010.
SDev	1.4	.66	.7	4.	2.	2006.	126.
%RSD	4.94	10.1	3.43	.610	.702	1.201	.6610
#1	27.0	-7.05	-22.0	657.	309.	165600.	18920.
#2	29.0	-6.11	-21.0	663.	312.	168400.	19100.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	493300.	20100.	39600.	196.	19.2	16.9	8710.
SDev	3287.	152.	359.	3.	2.8	.8	57.
%RSD	.6663	.7546	.905	1.35	14.7	4.96	.660
#1	491000.	19990.	39400.	194.	21.2	17.5	8670.
#2	495600.	20210.	39900.	198.	17.2	16.3	8750.

Analysis Report 11/29/04 10:13:41 AM

Method: 6010B Sample Name: 04ws2007 Operator: pps
Run Time: 11/29/04 10:08:23
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	765.	741.	375.	735.	74.9	75.1	151.
SDev	8.	5.	2.	1.	.0	.5	.
%RSD	1.02	.695	.653	.089	.046	.715	.116
#1	759.	738.	373.	735.	75.0	75.5	151.
#2	770.	745.	377.	735.	74.9	74.7	151.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	369.	150.	370.	373.	748.	375.	368.
SDev	.	.	1.	1.	17.	1.	8.
%RSD	.050	.189	.236	.224	2.28	.307	2.21
#1	369.	150.	370.	374.	736.	376.	362.
#2	369.	150.	371.	373.	760.	374.	373.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	374.	75.0	361.	374.	73.2	750.4	1542.
SDev	14.	1.3	2.	.	.2	13.6	8.
%RSD	3.64	1.78	.420	.006	.254	1.809	.4963
#1	365.	76.0	362.	374.	73.3	760.0	1547.
#2	384.	74.1	360.	374.	73.1	740.8	1537.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	749.6	1589.	72.2	372.	749.	372.	772.
SDev	12.6	11.	.1	.	6.	12.	.
%RSD	1.681	.7076	.201	.071	.804	3.17	.015
#1	758.6	1597.	72.3	372.	745.	364.	772.
#2	740.7	1581.	72.1	372.	753.	381.	772.

Analysis Report 11/29/04 10:19:41 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 11/29/04 10:16:24
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.09	-9.06	1.19	.248	-.836	-.293	.043
SDev	1.54	5.42	2.96	.005	.055	.285	.352
%RSD	17.0	59.8	248.	2.17	6.59	97.1	814.
#1	8.00	-12.9	-.899	.251	-.797	-.494	.292
#2	10.2	-5.23	3.28	.244	-.875	-.092	-.206

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.211	3.45	-.478	-1.22	3.73	.753	-9.95
SDev	.201	.56	2.776	2.08	.18	.319	11.86
%RSD	95.3	16.2	581.	171.	4.73	42.4	119.
#1	.353	3.84	1.49	-2.69	3.85	.979	-18.3
#2	.069	3.05	-2.44	.254	3.60	.528	-1.57

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.66	-.452	-3.08	-.014	4.87	-3.362	33.36
SDev	3.33	.243	4.39	.267	.03	2.065	2.24
%RSD	58.8	53.8	142.	1880.	.561	61.44	6.714
#1	8.02	-.280	.021	.174	4.85	-1.901	34.94
#2	3.31	-.624	-6.18	-.203	4.89	-4.822	31.77

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	24.10	26.28	.516	-.970	-3.01	.460	9.66
SDev	6.68	4.15	.102	.462	4.13	1.73	.06
%RSD	27.74	15.79	19.8	47.6	137.	377.	.657
#1	28.82	29.21	.443	-1.30	-5.93	-.764	9.71
#2	19.37	23.35	.588	-.644	-.093	1.68	9.62

Method: 6010B Sample Name: 04ws1841 Operator: pps
Run Time: 11/29/04 11:09:18
Comment: 96823,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	537.	499.	512.	485.	476.	919.	469.
SDev	18.	6.	11.	14.	13.	25.	11.
%RSD	3.35	1.29	2.10	2.91	2.68	2.69	2.34
#1	549.	503.	519.	495.	485.	936.	477.
#2	524.	494.	504.	475.	467.	901.	461.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	471.	490.	961.	950.	479.	898.	504.
SDev	12.	14.	2.	27.	10.	25.	2.
%RSD	2.64	2.84	.234	2.81	2.14	2.73	.459
#1	480.	500.	962.	969.	486.	915.	506.
#2	462.	481.	959.	931.	471.	881.	503.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	519.	925.	495.	468.	910.	512300.	442600.
SDev	1.	24.	31.	13.	25.	14805.	11720.
%RSD	.138	2.54	6.27	2.88	2.75	2.890	2.648
#1	518.	942.	516.	477.	928.	522700.	450900.
#2	519.	909.	473.	458.	892.	501800.	434300.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	166500.	510900.	446.	953.	511.	514.	20300.
SDev	4508.	13393.	13.	19.	10.	.	553.
%RSD	2.708	2.621	2.97	1.95	2.01	.057	2.72
#1	169700.	520400.	455.	967.	519.	514.	20700.
#2	163300.	501500.	437.	940.	504.	514.	19900.

Method: 6010B Sample Name: 04ws2067 Operator: pps
Run Time: 11/29/04 11:13:28
Comment: 96823,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	513.	496.	255.	494.	50.3	51.1	102.
SDev	21.	1.	2.	1.	.2	.2	.
%RSD	4.07	.184	.776	.102	.428	.374	.430
#1	499.	496.	253.	494.	50.2	51.2	102.
#2	528.	495.	256.	494.	50.5	51.0	102.

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	249.	99.5	248.	251.	503.	255.	244.
SDev	1.	.4	2.	8.	15.	1.	5.
%RSD	.543	.450	.816	3.27	2.99	.528	2.21
#1	248.	99.2	249.	245.	492.	254.	241.
#2	250.	99.8	246.	257.	513.	256.	248.

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	264.	51.0	253.	250.	52.0	629.3	1101.
SDev	4.	.8	22.	1.	.2	12.2	6.
%RSD	1.49	1.63	8.59	.401	.457	1.931	.5482
#1	261.	50.4	238.	249.	51.8	637.9	1105.
#2	266.	51.6	268.	250.	52.2	620.7	1097.

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	576.7	1121.	49.3	250.	502.	257.	524.
SDev	12.8	7.	.0	5.	6.	4.	2.
%RSD	2.219	.5998	.042	1.92	1.27	1.72	.356
#1	585.8	1125.	49.3	246.	497.	254.	522.
#2	567.7	1116.	49.3	253.	506.	260.	525.

Analysis Report 11/29/04 11:26:58 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 11/29/04 11:23:31
Comment: 96823,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.9	-14.4	-.740	.164	.057	.115	.369
SDev	.8	2.7	.649	.032	.023	.127	.092
%RSD	6.34	19.1	87.8	19.5	39.3	110.	24.9
#1	11.4	-12.5	-.281	.186	.073	.025	.434
#2	12.4	-16.3	-1.20	.141	.041	.204	.304

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.031	1.95	-.352	2.71	2.23	-.819	-13.3
SDev	.233	.07	.452	1.93	1.52	.153	5.8
%RSD	744.	3.83	129.	71.2	68.2	18.7	44.1
#1	-.134	1.90	-.032	1.35	3.30	-.711	-9.12
#2	.196	2.00	-.671	4.08	1.15	-.928	-17.4

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.736	-.300	4.77	-.160	4.82	42.64	38.18
SDev	2.82	.026	2.85	.633	.05	1.56	1.10
%RSD	383.	8.83	59.8	396.	1.02	3.659	2.878
#1	-1.26	-.281	2.76	.288	4.78	41.54	38.95
#2	2.73	-.319	6.79	-.607	4.85	43.74	37.40

Elem	Fe2714	Mg2790	Mn2576	Pb sum	Sb sum	Se sum	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20.04	29.90	.451	1.69	-5.64	-3.93	9.42
SDev	4.77	4.63	.045	1.14	1.58	.07	.21
%RSD	23.81	15.48	10.0	67.2	28.1	1.78	2.18
#1	16.67	26.63	.419	.888	-4.52	-3.88	9.56
#2	23.42	33.17	.483	2.50	-6.76	-3.98	9.27

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14481467 Instrument: MET01 TJA ICP Begun: 29-NOV-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	icp18027	CS				29-NOV-2004 08:27	1.0	1.0			1	
002	icp18027	CS				29-NOV-2004 08:30	1.0	1.0	2		2	
003	icp18027	ICV				29-NOV-2004 08:35	1.0	1.0			3	1:SI=216800
004	icp18028	ICB				29-NOV-2004 08:42	1.0	1.0	1			
005	icp18028	CRI				29-NOV-2004 09:01	1.0	1.0	1		4	
006	icp18028	ICSA				29-NOV-2004 09:05	1.0	1.0	3		5	7:CA=1900000
007	icp18028	ICSAB				29-NOV-2004 09:08	1.0	1.0			6	7:CA=1940000
008	icp18028	BLANK	QC273997	96914	Fuels	29-NOV-2004 09:13	30.0	2.0	4			1:SI=3110000
009	icp18028	MSS	176237-004	96914	Fuels	29-NOV-2004 09:18	30.0	2.109	4			1:SI=5263000
010	icp18028	SDUP	QC273996	96914	Fuels	29-NOV-2004 09:21	30.0	1.908	1			1:SI=6324000
011	icp18028	SAMPLE	176237-001	96914	Fuels	29-NOV-2004 09:24	30.0	2.506				1:SI=6511000
012	icp18028	SAMPLE	176237-002	96914	Fuels	29-NOV-2004 09:27	30.0	2.246				1:SI=7651000
013	icp18028	SAMPLE	176237-003	96914	Fuels	29-NOV-2004 09:30	30.0	2.288				1:SI=7570000
014	icp18029	CCV				29-NOV-2004 09:33	1.0	1.0	1		7	2:SI=9596000
015	icp18029	CCB				29-NOV-2004 09:38	1.0	1.0	2			1:SI=2170000
016	icp18029	MSS	176248-005	96915	Soil	29-NOV-2004 09:56	5.0	41.67	4			1:SI=921300
017	icp18029	SER	QC274003	96915	Soil	29-NOV-2004 09:58	25.0	41.67				2:SI=269200
018	icp18029	MS	QC274001	96915	Soil	29-NOV-2004 10:01	1.0	40.0	1	1		4:SI=3153000
019	icp18029	MSD	QC274002	96915	Soil	29-NOV-2004 10:04	1.0	33.33	1	4		4:SI=2779000
020	icp18029	SAMPLE	176248-001	96915	Soil	29-NOV-2004 10:08	10.0	40.98				1:SI=315300
021	icp18029	SAMPLE	176248-002	96915	Soil	29-NOV-2004 10:11	10.0	42.02				1:SI=332500
022	icp18029	SAMPLE	176248-003	96915	Soil	29-NOV-2004 10:13	10.0	36.23				1:SI=313600
023	icp18029	SAMPLE	176248-004	96915	Soil	29-NOV-2004 10:16	10.0	39.37				2:SI=275000
024	icp18030	ICSAB				29-NOV-2004 10:18	1.0	1.0			6	6:CA=1984000
025	icp18030	CCV				29-NOV-2004 10:27	1.0	1.0	1		7	1:SI=234500
026	icp18030	CCB				29-NOV-2004 10:31	1.0	1.0	1			

Stds used: 1=04WS1970 2=04WS2038 3=04WS1780 4=04WS2161 5=04WS1702 6=04WS1846 7=04WS1781

Analyst: _____ Date: 11/29/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	176248-001	Cident	: BB3EX154[0.5]
Seqnum	: 14481467020	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp180296	Batchnum	: 96915	Injected	: 29-NOV-2004 10:08
IDF	: 10.0			Units	: mg/Kg

Prep: 1.22 g --> 50.0 ml = 40.98 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	25		
Arsenic	ND	**200**		y
Barium	17	4.1		
Beryllium	ND	0.82		
Cadmium	ND	2.0		
Chromium	32	4.1	0.036	
Cobalt	ND	8.2		
Copper	6.5	4.1	0.10	
Iron	11000	41	1.1	u
Lead	ND	**120**	0.098	y
Manganese	160	**4.1**		y
Molybdenum	ND	8.2	0.12	
Nickel	19	8.2		
Selenium	ND	**200**	0.26	y
Silver	ND	2.0		
Thallium	ND	**200**		>c+ y
Vanadium	32	4.1		
Zinc	21	8.2	0.22	

+=high bias >=closing c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	176248-002	Cident	: DUP112304A
Seqnum	: 14481467021	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp180297	Batchnum	: 96915	Injected	: 29-NOV-2004 10:11
IDF	: 10.0			Units	: mg/Kg

Prep: 1.19 g --> 50.0 ml = 42.02 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	25		
Arsenic	ND	**210**		y
Barium	21	4.2		
Beryllium	ND	0.84		
Cadmium	ND	2.1		
Chromium	29	4.2	0.036	
Cobalt	ND	8.4		
Copper	6.9	4.2	0.10	
Iron	10000	42	1.1	u
Lead	ND	**130**	0.098	y
Manganese	170	**4.2**		y
Molybdenum	ND	8.4	0.12	
Nickel	18	8.4		
Selenium	ND	**210**	0.26	y
Silver	ND	2.1		
Thallium	ND	**210**		>c+ y
Vanadium	29	4.2		
Zinc	20	8.4	0.22	

+=high bias >=closing c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 14481467022	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp180298	Batchnum	: 96915	Injected	: 29-NOV-2004 10:13
IDF	: 10.0			Units	: mg/Kg

Prep: 1.38 g --> 50.0 ml = 36.23 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	22		
Arsenic	ND	**180**		y
Barium	21	3.6		
Beryllium	ND	0.72		
Cadmium	ND	1.8		
Chromium	36	3.6	0.036	
Cobalt	ND	7.2		
Copper	6.6	3.6	0.10	
Iron	11000	36	1.1	u
Lead	ND	**110**	0.098	y
Manganese	180	**3.6**		y
Molybdenum	ND	7.2	0.12	
Nickel	21	7.2		
Selenium	ND	**180**	0.26	y
Silver	ND	1.8		
Thallium	ND	**180**		>c+ y
Vanadium	33	3.6		
Zinc	20	7.2	0.22	

+=high bias >=closing c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	176248-004	Cident	: BB3EX151[0.5]
Seqnum	: 14481467023	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp180299	Batchnum	: 96915	Injected	: 29-NOV-2004 10:16
IDF	: 10.0			Units	: mg/Kg

Prep: 1.27 g --> 50.0 ml = 39.37 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	24		
Arsenic	ND	**200**		y
Barium	170	3.9		
Beryllium	ND	0.79		
Cadmium	ND	2.0		
Chromium	11	3.9	0.036	
Cobalt	23	7.9		
Copper	110	3.9	0.10	
Iron	23000	39	1.1	u
Lead	ND	**120**	0.098	y
Manganese	1700	**3.9**		u y
Molybdenum	ND	7.9	0.12	
Nickel	13	7.9		
Selenium	ND	**200**	0.26	y
Silver	ND	2.0		
Thallium	ND	**200**		>c+ y
Vanadium	32	3.9		
Zinc	18	7.9	0.22	

+=high bias >=closing c=CCV u=use y=RL raised

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET01	Samplenum:	176248-005	Cident	: BB3EX152[0.5]
Seqnum	: 14481467016	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: icp180292	Batchnum	: 96915	Injected	: 29-NOV-2004 09:56
IDF	: 5.0			Units	: mg/Kg

Prep: 1.20 g --> 50.0 ml = 41.67 ml/g PDF

Analyte	Result	RL	B=tr256040	Flags
Antimony	ND	13		
Arsenic	ND	**100**		y
Barium	220	2.1		
Beryllium	0.51	0.42		
Cadmium	ND	1.0		
Chromium	12	2.1	0.036	
Cobalt	19	4.2		
Copper	120	2.1	0.10	
Iron	28000	21	1.1	u
Lead	ND	**63**	0.098	y
Manganese	2000	**2.1**		u y
Molybdenum	ND	4.2	0.12	
Nickel	17	4.2		
Selenium	ND	**100**	0.26	y
Silver	ND	1.0		
Thallium	ND	**100**		>c+ y
Vanadium	38	2.1		
Zinc	26	4.2	0.22	

+=high bias >=closing c=CCV u=use y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET01	Instid : MET01	Instid : MET01
Seqnum : 14481467016	Seqnum : 14481467018	Seqnum : 14481467019
Filename : icp180292	Filename : icp180294	Filename : icp180295
IDF : 5.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-005	Samplenum: QC274001	Samplenum: QC274002
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96915	Batchnum : 96915	Batchnum : 96915
Inj : 29-NOV-2004 09:56	Inj : 29-NOV-2004 10:01	Inj : 29-NOV-2004 10:04
Units : mg/Kg		

MSS: 1.20 g --> 50.0 ml = 41.67 ml/g PDF
MS: 1.25 g --> 50.0 ml = 40.0 ml/g PDF
MSD: 1.50 g --> 50.0 ml = 33.33 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	RPD	Lim	Flags
Aluminum	8321	666.7	8900 >LR	72	8163 >LR	-24	58-148	--	22	: >LR
Antimony	ND	66.67	30.28	38	20.98	31	16-120	18	31	
Arsenic	ND	33.33	30.70	77	22.14	66	62-120	14	25	y
Barium	215.8	66.67	295.9	100	249.8	51	51-137	12	20	
Beryllium	0.5056	1.667	2.183	84	1.754	75	70-120	8	20	
Cadmium	ND	6.667	6.556	82	5.120	77	61-120	6	20	
Calcium	549.2	666.7	1137	74	950.0	60	40-149	8	20	
Chromium	11.83	66.67	72.36	76	57.23	68	60-120	8	20	
Cobalt	19.42	16.67	32.05	63	27.92	51*	56-120	5	20	
Copper	119.0	8.333	115.2	-38	101.5	-211	47-144	11	20	:
Iron	27600	666.7	22680 >LR	-616	19600 >LR	-1201	57-134	--	20	: >LR u
Lead	ND	66.67	77.08	96	59.07	89	47-126	8	28	y
Magnesium	814.0	666.7	1374	70	1163	52	44-152	8	20	
Manganese	2007	16.67	1723	-1420	1589	-2512	62-131	8	20	: u
Molybdenum	ND	13.33	13.10	82	10.15	76	57-120	7	20	
Nickel	17.38	16.67	33.25	79	27.19	59	41-138	11	22	
Potassium	1012	333.3	1282	68	1111	30*	33-157	9	23	
Selenium	ND	33.33	36.64	92	23.57	71	35-122	26	27	y
Silver	ND	6.667	6.076	76	4.757	71	71-120	6	20	
Sodium	47.81	666.7	716.4	84	567.3	78	72-126	6	20	
Thallium	ND	33.33	22.09	55	13.99	42*	53-120	27*	23	>c+ r y b*
Vanadium	38.04	16.67	46.64	43*	41.33	20*	48-136	6	20	
Zinc	25.71	16.67	38.83	66	32.55	41	38-144	10	20	
Boron	*** usable MSS data not found ***									
Phosphorus	*** not spiked in MSD ***									
Silicon	*** not spiked in MSD ***									
Sulfide	*** not spiked in MSD ***									
Tin	ND	33.33	28.58	71	21.26	64	37-123	11	60	
Titanium	484.2	33.33	415.2	-172	350.0	-403	10-164	16	20	:

+=high bias :=recovery not meaningful >=closing >LR=overrange b=noncompliant c=CCV r=RSD out u=use y=RL raised

Method: 6010B Standard: blank
Run Time: 11/29/04 08:11:55

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.0007	.0057	.0001	.0006	-.0003	.0010	-.0000
SDev	.0002	.0018	.0002	.0000	.0012	.0010	.0008
%RSD	27.44	31.80	141.4	.8763	431.4	101.4	22820.
#1	.0006	.0045	.0003	.0006	.0006	.0018	-.0006
#2	.0009	.0070	.0000	.0006	-.0012	.0003	.0006

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0009	.0006	.0005	.0013	-.0001	-.0004	.0000
SDev	.0004	.0013	.0023	.0019	.0006	.0002	.0017
%RSD	47.92	213.2	507.9	141.4	431.4	46.36	22820.
#1	.0012	-.0003	.0021	.0027	.0003	-.0003	.0012
#2	.0006	.0015	-.0012	.0000	-.0006	-.0006	-.0012

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0003	.0006	.0024	.1908	.0019	-.0022	.0001
SDev	.0004	.0008	.0000	.0048	.0002	.0002	.0002
%RSD	141.4	141.4	.8763	2.517	11.75	8.555	141.4
#1	.0000	.0012	.0024	.1942	.0021	-.0021	.0000
#2	-.0006	.0000	.0023	.1874	.0018	-.0023	.0003

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782
Avge	.0226	.0183	.0003	.0145	-.0003	.0004
SDev	.0104	.0007	.0013	.0005	.0004	.0006
%RSD	46.08	3.686	431.4	3.762	141.4	141.4
#1	.0300	.0178	-.0006	.0148	.0000	.0000
#2	.0152	.0188	.0012	.0141	-.0006	.0009

Method: 6010B Standard: cs hi
Run Time: 11/29/04 08:21:06

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.5681	1.302	9.591	.3153	4.123	1.238	.8937
SDev	.0082	.032	.162	.0047	.090	.016	.0135
%RSD	1.445	2.440	1.694	1.503	2.183	1.288	1.511
#1	.5623	1.280	9.476	.3120	4.059	1.227	.8842
#2	.5739	1.325	9.706	.3187	4.186	1.250	.9033

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	1.022	.3693	2.454	2.151	.5549	.1852	.6175
SDev	.019	.0065	.062	.038	.0118	.0042	.0222
%RSD	1.839	1.765	2.523	1.767	2.120	2.269	3.592
#1	1.009	.3647	2.410	2.124	.5466	.1822	.6019
#2	1.035	.3739	2.498	2.178	.5632	.1881	.6332

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.8103	2.193	2.909	56.18	4.254	7.728	1.651
SDev	.0149	.053	.047	1.03	.158	.141	.031
%RSD	1.833	2.395	1.607	1.839	3.716	1.820	1.888
#1	.7998	2.155	2.876	55.45	4.143	7.629	1.629
#2	.8208	2.230	2.942	56.91	4.366	7.828	1.673

Elem	K_7664	Na5889
Avge	.6480	5.759
SDev	.0224	.079
%RSD	3.456	1.375
#1	.6321	5.703
#2	.6638	5.815

Method: 6010B Standard: STD4
Run Time: 11/29/04 08:23:15

Elem	Sn1899	B_2496	Ti3349	P_1782	S_1820	Si2881
Avge	3.249	1.784	9.464	-.0007	.0407	.2863
SDev	.018	.015	.017	.0002	.0018	.0064
%RSD	.5595	.8134	.1759	26.63	4.526	2.234
#1	3.236	1.794	9.476	-.0006	.0394	.2908
#2	3.262	1.774	9.453	-.0009	.0420	.2817

Standardization Report 11/29/04 08:26:01 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	17697.2	-13.0392	11/29/04 08:21:06
As1890	189.042	Multiple	Standards	7711.85	-44.3116	11/29/04 08:21:06
Ba4934	493.409	Multiple	Standards	2085.32	-.309579	11/29/04 08:21:06
Be3130	313.042	Multiple	Standards	1643.77	-.970097	11/29/04 08:21:06
Cd2288	228.802	Multiple	Standards	2426.26	.702641	11/29/04 08:21:06
Cr2677	267.716	Multiple	Standards	1613.88	-1.67418	11/29/04 08:21:06
Co2286	228.616	Multiple	Standards	5630.13	.020589	11/29/04 08:21:06
Cu3247	324.754	Multiple	Standards	2451.79	-2.17493	11/29/04 08:21:06
Pb2203	220.353	Multiple	Standards	27185.1	-15.8946	11/29/04 08:21:06
Mo2020	202.030	Multiple	Standards	4075.41	-1.84487	11/29/04 08:21:06
Ni2316	231.604	Multiple	Standards	2325.44	-3.10703	11/29/04 08:21:06
Se1960	196.026	Multiple	Standards	17995.9	2.60579	11/29/04 08:21:06
Ag3280	328.068	Multiple	Standards	5267.37	2.32666	11/29/04 08:21:06
Tl1908	190.864	Multiple	Standards	16199.7	-.118484	11/29/04 08:21:06
V_2924	292.402	Multiple	Standards	6053.89	1.77534	11/29/04 08:21:06
Zn2138	213.856	Multiple	Standards	2274.15	-1.35044	11/29/04 08:21:06
Al3961	396.153	Multiple	Standards	6881.31	-16.2445	11/29/04 08:21:06
Ca3179	317.933	Multiple	Standards	893.029	-170.377	11/29/04 08:21:06
Fe2599	259.940	Multiple	Standards	2351.57	-4.51257	11/29/04 08:21:06
Mg2790	279.079	Multiple	Standards	6438.36	14.2430	11/29/04 08:21:06
Mn2576	257.610	Multiple	Standards	3030.08	-.444294	11/29/04 08:21:06
K_7664	766.491	Multiple	Standards	79955.8	-1808.50	11/29/04 08:21:06
Na5889	588.995	Multiple	Standards	8709.52	-159.310	11/29/04 08:21:06
Sn1899	189.989	STD4	blank	3088.05	-.894294	11/29/04 08:23:15
B_2496	249.678	STD4	blank	5650.68	-81.7141	11/29/04 08:23:15
Ti3349	334.941	STD4	blank	1056.57	.309845	11/29/04 08:23:15
P_1782	178.287	STD4	blank	19e6	10191.4	*11/29/04 08:23:15
S_1820	182.040	STD4	STD1-Blank	118.671	-8.71043	*11/29/04 08:23:15
Si2881	288.158	STD4	STD1-Blank	1572030.	-440010.	11/29/04 08:23:15

Method: 6010B Sample Name: 04ws1970 Operator: pps
Run Time: 11/29/04 08:27:18
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	10240.	10330.	20640.	518.8	10180.	2049.	5110.
SDev	124.	33.	4.	.4	70.	6.	15.
%RSD	1.216	.3160	.0190	.0753	.6840	.3045	.2905
#1	10150.	10360.	20640.	518.6	10130.	2044.	5099.
#2	10330.	10310.	20630.	519.1	10230.	2053.	5120.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2579.	10170.	10320.	5145.	10260.	1012.	10450.
SDev	1.	46.	111.	51.	17.	4.	3.
%RSD	.0411	.4483	1.075	1.0000	.1661	.4393	.0293
#1	2578.	10130.	10240.	5109.	10240.	1009.	10460.
#2	2580.	10200.	10390.	5182.	10270.	1015.	10450.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	5135.	5122.	20360.	51300.	10270.	50890.	5123.
SDev	12.	38.	56.	288.	87.	243.	21.
%RSD	.2407	.7422	.2757	.5616	.8509	.4781	.4107
#1	5126.	5095.	20320.	51090.	10210.	50720.	5108.
#2	5144.	5149.	20400.	51500.	10330.	51060.	5138.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	50750.	51160.	-31.00	2.107	2.455	24110.	-.1161
SDev	309.	135.	3.54	5.663	.466	19682.	.5434
%RSD	.6084	.2647	11.42	268.8	18.99	81.64	468.2
#1	50540.	51060.	-28.50	-1.898	2.125	38030.	-.5003
#2	50970.	51250.	-33.50	6.112	2.785	10190.	.2682

Elem	Si2881
Units	PPB
Avge	39040.
SDev	9689.
%RSD	24.82
#1	32190.
#2	45890.

Method: 6010B Sample Name: 04ws2038 Operator: pps
Run Time: 11/29/04 08:30:07
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	46.81	11.76	13.65	-.1585	5.293	.2634	3.101
SDev	3.54	22.03	2.62	.0029	.514	.8274	2.300
%RSD	7.561	187.3	19.20	1.804	9.719	314.1	74.15
#1	44.31	-3.818	15.51	-.1565	5.657	-.3217	1.475
#2	49.32	27.34	11.80	-.1606	4.930	.8485	4.728

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2.408	-47.44	52.74	5.714	5.247	1.644	-35.38
SDev	.509	44.59	16.95	2.871	3.712	2.169	63.22
%RSD	21.15	93.99	32.14	50.26	70.75	131.9	178.7
#1	2.769	-15.91	64.73	7.744	7.871	.1107	9.327
#2	2.048	-78.97	40.76	3.683	2.622	3.178	-80.08

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	8.012	9.439	5.799	36.14	13.55	25.37	3.967
SDev	.186	.445	8.569	12.26	.05	21.54	1.262
%RSD	2.320	4.720	147.8	33.92	.3585	84.90	31.80
#1	8.143	9.124	11.86	44.80	13.59	40.60	4.859
#2	7.881	9.754	-.2600	27.47	13.52	10.14	3.075

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-598.2	78.97	10120.	10090.	10070.	15770.	-4.135
SDev	168.5	7.95	45.	15.	23.	23828.	.302
%RSD	28.17	10.07	.4431	.1475	.2321	151.1	7.314
#1	-479.0	84.60	10080.	10100.	10090.	-1076.	-4.349
#2	-717.3	73.35	10150.	10080.	10060.	32620.	-3.921

Elem	Si2881
Units	PPB
Avge	119.8
SDev	491.9
%RSD	410.7
#1	-228.0
#2	467.5

Method: 6010B Sample Name: 04ws1780 Operator: pps
Run Time: 11/29/04 08:35:34
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2056.	2043.	1061.	1999.	2065.	2064.	2082.
SDev	39.	13.	1.	.	2.	2.	7.
%RSD	1.889	.6142	.0900	.0150	.1062	.0962	.3411
#1	2029.	2052.	1060.	1999.	2063.	2062.	2087.
#2	2083.	2035.	1062.	1999.	2066.	2065.	2077.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2063.	2079.	2074.	2079.	2014.	1068.	2156.
SDev	6.	16.	20.	12.	10.	2.	5.
%RSD	.2774	.7605	.9736	.5785	.4979	.1780	.2297
#1	2059.	2090.	2059.	2071.	2006.	1067.	2159.
#2	2067.	2068.	2088.	2088.	2021.	1070.	2152.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2034.	2043.	1069.	2063.	2095.	2049.	2080.
SDev	1.	1.	7.	3.	2.	17.	3.
%RSD	.0359	.0603	.6322	.1341	.0913	.8308	.1269
#1	2034.	2042.	1074.	2065.	2096.	2037.	2078.
#2	2033.	2044.	1064.	2061.	2093.	2061.	2082.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10560.	10030.	1952.	1040.	2007.	7335.	-3.314
SDev	160.	23.	33.	2.	.	4039.	.186
%RSD	1.510	.2279	1.684	.2062	.0209	55.06	5.607
#1	10670.	10020.	1976.	1038.	2007.	4479.	-3.446
#2	10450.	10050.	1929.	1041.	2006.	10190.	-3.183

Elem	Si2881
Units	PPB
Avge	216800.
SDev	852.
%RSD	.3930
#1	217400.
#2	216200.

Method: 6010B Sample Name: icb Operator: pps
Run Time: 11/29/04 08:42:54
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	9.487	-6.440	3.780	-.0313	3.768	-.2789	-3.141
SDev	24.77	21.120	.825	.0151	.484	1.9099	4.461
%RSD	261.1	327.9	21.81	48.33	12.85	684.9	142.0
#1	-8.030	8.494	4.363	-.0420	3.426	-1.629	.0138
#2	27.00	-21.37	3.197	-.0206	4.111	1.072	-6.295

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1.302	-11.67	16.49	-4.293	35.25	2.300	38.54
SDev	.971	5.30	3.23	.012	3.56	.022	16.08
%RSD	74.52	45.38	19.61	.2910	10.10	.9628	41.72
#1	.6161	-15.42	18.78	-4.284	32.73	2.316	27.17
#2	1.989	-7.927	14.20	-4.302	37.76	2.285	49.90

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1.892	.9322	-8.259	5.299	-.1235	25.23	.4153
SDev	4.833	.4917	2.765	4.221	1.4121	15.35	1.202
%RSD	255.5	52.74	33.48	79.66	1143.	60.83	289.5
#1	5.310	1.280	-10.21	8.283	-1.122	14.38	1.265
#2	-1.526	.5845	-6.304	2.314	.8750	36.08	-.4347

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-221.0	15.34	2.651	-9.540	.0067	7420.	-4.214
SDev	223.1	13.84	20.05	1.147	.4283	20e3	.096
%RSD	101.0	90.19	756.5	12.02	6425.	264.1	2.286
#1	-378.7	25.12	-11.53	-8.729	-.2962	21280.	-4.282
#2	-63.19	5.558	16.83	-10.35	.3095	-6438.	-4.146

Elem	Si2881
Units	PPB
Avge	-20380.
SDev	2552.
%RSD	12.52
#1	-18580.
#2	-22190.

Analysis Report 11/29/04 09:04:25 AM page 1

Method: 6010B Sample Name: 04ws2161 Operator: pps
Run Time: 11/29/04 09:01:36
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	41.01	483.0	9.981	1.686	5.992	10.75	22.36
SDev	6.37	9.2	.094	.031	1.957	1.14	3.08
%RSD	15.53	1.914	.9423	1.842	32.65	10.61	13.77
#1	45.51	476.5	9.914	1.664	4.609	11.56	24.54
#2	36.50	489.6	10.05	1.708	7.376	9.945	20.19

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	9.979	311.3	21.75	20.46	503.1	7.398	487.6
SDev	2.010	39.1	1.80	6.89	15.0	.043	11.3
%RSD	20.14	12.56	8.280	33.66	2.990	.5821	2.316
#1	8.557	339.0	20.47	15.59	492.5	7.368	495.6
#2	11.40	283.7	23.02	25.33	513.8	7.428	479.6

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	10.22	23.15	94.08	509.7	111.6	515.6	10.38
SDev	2.26	2.37	5.07	11.7	6.6	6.7	1.28
%RSD	22.12	10.22	5.390	2.293	5.906	1.300	12.29
#1	11.81	21.48	90.50	501.5	107.0	520.3	9.482
#2	8.618	24.82	97.67	518.0	116.3	510.8	11.29

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	300.7	505.6	39.87	93.87	9.815	-6137.	-4.339
SDev	237.6	19.6	3.31	1.76	.087	7830.	.102
%RSD	79.02	3.878	8.305	1.880	.8897	127.6	2.341
#1	132.7	491.7	42.22	95.12	9.753	-600.5	-4.267
#2	468.7	519.5	37.53	92.62	9.877	-11670.	-4.411

Elem	Si2881
Units	PPB
Avge	-21350.
SDev	1954.
%RSD	9.150
#1	-22740.
#2	-19970.

Method: 6010B Sample Name: 04ws1702 Operator: pps
Run Time: 11/29/04 09:05:11
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	30.28	45.22	-.3016	-.0454	-2.243	-4.686	-1.719
SDev	41.58	71.80	.0000	.0166	1.918	1.867	6.798
%RSD	137.3	158.8	.0004	36.54	85.52	39.85	395.4
#1	.8811	95.99	-.3015	-.0572	-3.599	-3.366	3.088
#2	59.68	-5.544	-.3016	-.0337	-.8866	-6.007	-6.526

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.1812	-46.52	13.60	-4.103	166.7	1.234	-62.56
SDev	.4372	136.67	21.95	22.667	196.6	3.084	50.70
%RSD	241.3	293.8	161.4	552.5	117.9	249.9	81.04
#1	.4904	50.12	29.12	-20.13	305.7	-.9466	-98.41
#2	-.1280	-143.2	-1.924	11.93	27.69	3.415	-26.71

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-4.130	-12.62	543300.	S1900000.	184000.	503900.	-8.286
SDev	3.275	5.14	13532.	15703.	4940.	11420.	.840
%RSD	79.31	40.71	2.491	.8264	2.685	2.266	10.14
#1	-1.814	-8.985	533800.	S1889000.	180500.	495900.	-8.880
#2	-6.446	-16.25	552900.	S1911000.	187500.	512000.	-7.692

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-519.7	-120.4	-28.89	-24.69	2.355	185700.	23.19
SDev	234.5	50.2	64.75	19.24	.431	96518.	.90
%RSD	45.12	41.72	224.1	77.95	18.29	51.97	3.879
#1	-353.9	-155.9	16.90	-38.30	2.051	254000.	22.55
#2	-685.5	-84.86	-74.67	-11.08	2.660	117500.	23.83

Elem	Si2881
Units	PPB
Avge	308700.
SDev	7045.
%RSD	2.282
#1	303700.
#2	313700.

Method: 6010B Sample Name: 04ws1846 Operator: pps
Run Time: 11/29/04 09:08:15
Comment: 55555,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1979.	2077.	492.5	483.7	987.0	469.4	468.3
SDev	21.	24.	.4	2.7	9.0	.6	3.7
%RSD	1.061	1.152	.0719	.5607	.9143	.1279	.7820
#1	1994.	2060.	492.2	481.8	980.6	469.0	470.9
#2	1964.	2094.	492.7	485.7	993.4	469.8	465.7

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	498.2	902.4	486.6	957.8	2099.	984.1	2012.
SDev	4.0	10.7	10.1	19.3	47.	3.9	76.
%RSD	.8071	1.184	2.068	2.014	2.248	.3976	3.765
#1	495.3	909.9	479.5	971.5	2065.	981.3	2065.
#2	501.0	894.8	493.7	944.2	2132.	986.9	1958.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	476.6	1013.	544700.	S1940000.	185600.	509300.	468.1
SDev	3.5	3.	2907.	6697.	2036.	2737.	3.5
%RSD	.7357	.2844	.5337	.3451	1.097	.5373	.7570
#1	474.1	1011.	542600.	S1945000.	187100.	507400.	465.6
#2	479.1	1015.	546700.	S1936000.	184200.	511300.	470.6

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-169.9	-89.72	-43.73	4.321	1946.	86220.	23.43
SDev	553.4	46.10	18.38	1.962	9.	123e3	.01
%RSD	325.7	51.38	42.02	45.39	.4623	142.6	.0400
#1	221.4	-57.12	-30.74	2.934	1939.	-725.6	23.42
#2	-561.3	-122.3	-56.72	5.709	1952.	173200.	23.44

Elem	Si2881
Units	PPB
Avge	306000.
SDev	606.
%RSD	.1980
#1	305600.
#2	306400.

Analysis Report 11/29/04 09:35:55 AM page 1

Method: 6010B Sample Name: 04ws1781 Operator: pps
Run Time: 11/29/04 09:33:51
Comment: 96914,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1977.	2116.	1061.	2048.	2062.	2019.	2056.
SDev	12.	26.	5.	9.	15.	5.	1.
%RSD	.5850	1.242	.4268	.4521	.7431	.2293	.0518
#1	1969.	2135.	1057.	2041.	2051.	2016.	2056.
#2	1985.	2098.	1064.	2054.	2073.	2022.	2057.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2064.	2030.	2060.	2123.	1988.	1059.	2102.
SDev	7.	27.	27.	10.	2.	2.	94.
%RSD	.3580	1.325	1.332	.4883	.0855	.1928	4.493
#1	2058.	2049.	2040.	2131.	1987.	1057.	2035.
#2	2069.	2011.	2079.	2116.	1990.	1060.	2168.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2046.	2069.	1040.	2067.	1980.	2021.	2065.
SDev	8.	16.	8.	10.	26.	2.	10.
%RSD	.3775	.7632	.7627	.4706	1.312	.1137	.4924
#1	2041.	2058.	1034.	2061.	1961.	2023.	2057.
#2	2052.	2080.	1045.	2074.	1998.	2019.	2072.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	10220.	10410.	1968.	1129.	1981.	32130.	-3.387
SDev	282.	11.	34.	14.	7.	176.	.043
%RSD	2.760	.1082	1.744	1.249	.3321	.5483	1.262
#1	10020.	10410.	1944.	1119.	1976.	32250.	-3.356
#2	10420.	10400.	1993.	1139.	1985.	32000.	-3.417

Elem	Si2881
Units	PPB
Avge	9596000.
SDev	103956.
%RSD	1.083
#1	9670000.
#2	9523000.

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 11/29/04 09:38:57
Comment: 96914,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-2.990	6.077	-.0113	-.0332	-.0317	-.9562	.0210
SDev	42.256	2.901	.4105	.0058	.9603	1.5854	.0004
%RSD	1413.	47.74	3638.	17.61	3030.	165.8	1.903
#1	-32.87	4.026	.2790	-.0290	-.7107	.1649	.0207
#2	26.89	8.129	-.3016	-.0373	.6473	-2.077	.0213

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.6068	-22.94	3.318	-2.986	17.51	.0353	-9.170
SDev	.0028	31.96	5.638	.897	35.35	2.087	12.806
%RSD	.4553	139.4	169.9	30.05	201.9	5914.	139.7
#1	.6087	-.3342	7.304	-3.620	-7.486	1.511	-18.23
#2	.6048	-45.54	-.6685	-2.351	42.50	-1.441	-.1146

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	.9218	-.0335	-8.298	-10.51	-3.125	-13.02	-.4338
SDev	1.142	.0042	5.514	5.21	.003	7.72	.0002
%RSD	123.9	12.62	66.45	49.57	.0854	59.27	.0563
#1	.1143	-.0365	-4.399	-6.825	-3.123	-7.565	-.4339
#2	1.729	-.0305	-12.20	-14.19	-3.127	-18.48	-.4336

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-162.2	8.311	-10.59	114.2	.3101	-815.8	-3.969
SDev	383.6	26.13	1.27	6.1	.0005	15566.	.201
%RSD	236.5	314.4	11.95	5.338	.1553	1908.	5.068
#1	109.0	26.78	-11.49	118.5	.3098	10190.	-3.827
#2	-433.5	-10.16	-9.696	109.9	.3105	-11820.	-4.111

Elem	Si2881
Units	PPB
Avge	2170000.
SDev	276821.
%RSD	12.75
#1	2366000.
#2	1975000.

Method: 6010B Sample Name: 176248-005 Operator: pps
Run Time: 11/29/04 09:56:04
Comment: 96915,5
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-4.387	-7.084	1036.	2.427	-1.343	56.76	93.20
SDev	3.120	16.948	1.	.318	.891	.01	.44
%RSD	71.11	239.2	.1205	13.11	66.35	.0163	.4774
#1	-2.181	-19.07	1036.	2.202	-1.973	56.77	92.89
#2	-6.593	4.900	1037.	2.652	-.7128	56.75	93.52

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	571.4	43.13	5.223	83.43	32.04	-1.696	-29.82
SDev	4.2	20.76	1.430	9.66	19.35	.959	50.41
%RSD	.7262	48.13	27.38	11.57	60.41	56.52	169.0
#1	568.5	28.45	6.234	76.60	45.72	-2.374	-65.47
#2	574.4	57.81	4.211	90.26	18.35	-1.018	5.821

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	182.6	123.4	39940.	2636.	132500.	3907.	9635.
SDev	1.4	.3	81.	10.	890.	6.	25.
%RSD	.7673	.2513	.2037	.3836	.6716	.1468	.2579
#1	183.6	123.6	39880.	2629.	131900.	3903.	9618.
#2	181.6	123.1	40000.	2643.	133100.	3911.	9653.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	4856.	229.5	-27.30	28.73	2324.	22930.	-.2831
SDev	579.	21.1	3.39	4.77	2.	39888.	.1751
%RSD	11.92	9.202	12.41	16.61	.0785	173.9	61.85
#1	4447.	214.5	-29.69	32.11	2323.	51140.	-.4069
#2	5265.	244.4	-24.90	25.36	2325.	-5271.	-.1593

Elem	Si2881
Units	PPB
Avge	921300.
SDev	6656.
%RSD	.7225
#1	916600.
#2	926000.

Method: 6010B Sample Name: qc274003 Operator: pps
Run Time: 11/29/04 09:58:45
Comment: 96915,25
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-7.686	-24.46	200.2	.6673	-.3875	8.449	21.29
SDev	6.690	25.81	.1	.0018	.4600	1.179	3.25
%RSD	87.04	105.5	.0632	.2752	118.7	13.95	15.26
#1	-2.956	-6.213	200.3	.6686	-.0623	9.283	18.99
#2	-12.42	-42.71	200.1	.6660	-.7128	7.616	23.59

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	118.9	-17.14	1.344	23.97	-21.90	1.836	-36.64
SDev	2.4	9.98	.743	1.84	23.67	.015	36.92
%RSD	1.997	58.22	55.29	7.667	108.1	.8308	100.8
#1	120.5	-10.08	1.869	22.67	-5.164	1.826	-10.53
#2	117.2	-24.19	.8185	25.27	-38.63	1.847	-62.75

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	36.58	24.96	7772.	537.1	26190.	779.1	1893.
SDev	2.37	1.19	17.	4.0	205.	7.3	4.
%RSD	6.480	4.759	.2128	.7417	.7822	.9397	.2154
#1	34.90	25.80	7784.	534.3	26050.	773.9	1896.
#2	38.25	24.12	7760.	540.0	26340.	784.2	1890.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	682.2	49.14	-.6676	1.728	453.0	26060.	-3.260
SDev	53.6	12.51	2.3954	9.014	.6	14987.	.074
%RSD	7.860	25.45	358.8	521.5	.1224	57.52	2.266
#1	644.3	57.98	-2.361	-4.645	453.4	15460.	-3.207
#2	720.2	40.29	1.026	8.102	452.6	36650.	-3.312

Elem	Si2881
Units	PPB
Avge	269200.
SDev	7395.
%RSD	2.747
#1	274400.
#2	263900.

Method: 6010B Sample Name: qc274001 Operator: pps
Run Time: 11/29/04 10:01:41
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	756.9	767.5	7397.	54.58	163.9	1809.	801.3
SDev	7.7	3.4	12.	.27	5.2	14.	5.9
%RSD	1.011	.4465	.1563	.5017	3.161	.7504	.7410
#1	762.3	765.1	7389.	54.78	160.2	1799.	797.1
#2	751.5	769.9	7405.	54.39	167.5	1818.	805.5

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2880.	1927.	327.5	831.2	916.0	151.9	552.2
SDev	7.	9.	2.9	2.5	61.0	3.1	67.5
%RSD	.2543	.4489	.8714	.3018	6.663	2.047	12.22
#1	2875.	1933.	329.5	829.4	959.1	149.7	599.9
#2	2886.	1921.	325.4	832.9	872.8	154.1	504.5

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1166.	970.7	222500.	28430.	566900.	34360.	43080.
SDev	10.	5.4	1009.	201.	3266.	226.	230.
%RSD	.8811	.5596	.4532	.7081	.5760	.6571	.5350
#1	1158.	966.8	221800.	28290.	564600.	34200.	42920.
#2	1173.	974.5	223200.	28570.	569200.	34520.	43240.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	32050.	17910.	714.6	770.3	10380.	7969.	14.66
SDev	488.	71.	42.4	8.0	24.	39e3	.06
%RSD	1.521	.3969	5.931	1.043	.2267	493.7	.4207
#1	31700.	17860.	744.6	764.6	10360.	35790.	14.62
#2	32390.	17960.	684.6	775.9	10390.	-19850.	14.71

Elem	Si2881
Units	PPB
Avge	3153000.
SDev	21356.
%RSD	.6773
#1	3138000.
#2	3168000.

Method: 6010B Sample Name: qc274002 Operator: pps
Run Time: 11/29/04 10:04:02
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	629.5	664.3	7495.	52.61	153.6	1717.	837.7
SDev	21.1	36.9	48.	.23	1.2	4.	6.2
%RSD	3.346	5.558	.6420	.4406	.7891	.2343	.7405
#1	644.4	638.2	7529.	52.78	152.8	1720.	842.1
#2	614.7	690.4	7461.	52.45	154.5	1714.	833.3

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	3045.	1772.	304.5	815.7	707.1	142.7	419.6
SDev	14.	4.	1.4	10.2	7.0	1.1	110.7
%RSD	.4472	.2339	.4716	1.245	.9886	.7541	26.38
#1	3054.	1775.	305.5	808.5	712.1	142.0	497.9
#2	3035.	1769.	303.5	822.9	702.2	143.5	341.3

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1240.	976.5	244900.	28500.	588000.	34890.	47660.
SDev	8.	.2	908.	17.	2954.	76.	90.
%RSD	.6263	.0169	.3710	.0592	.5024	.2168	.1882
#1	1246.	976.6	245500.	28490.	585900.	34940.	47720.
#2	1235.	976.4	244200.	28510.	590100.	34830.	47590.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	33330.	17020.	637.7	701.5	10500.	-15020.	14.80
SDev	548.	47.	9.9	6.1	54.	128311.	.07
%RSD	1.643	.2733	1.555	.8753	.5158	854.4	.4474
#1	32940.	17050.	644.7	697.1	10540.	75710.	14.84
#2	33720.	16990.	630.7	705.8	10460.	-105700.	14.75

Elem	Si2881
Units	PPB
Avge	2779000.
SDev	10079.
%RSD	.3627
#1	2786000.
#2	2772000.

Method: 6010B Sample Name: 176248-001 Operator: pps
Run Time: 11/29/04 10:08:58
Comment: 96915,10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-18.49	-17.89	42.45	.1297	1.646	76.86	11.19
SDev	20.61	11.52	.05	.6306	1.394	2.51	.09
%RSD	111.5	64.37	.1097	486.1	84.69	3.264	.8057
#1	-3.918	-26.03	42.42	.5756	.6605	78.64	11.26
#2	-33.06	-9.747	42.49	-.3162	2.632	75.09	11.13

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	15.84	-5.026	-2.597	46.95	30.30	-1.408	-19.21
SDev	1.56	15.186	3.146	7.46	10.04	3.043	12.30
%RSD	9.840	302.1	121.1	15.90	33.14	216.1	64.03
#1	16.94	-15.76	-.3726	52.23	23.20	.7440	-10.51
#2	14.73	5.712	-4.822	41.67	37.40	-3.560	-27.91

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	77.41	51.40	9182.	6628.	25780.	4914.	378.9
SDev	.52	.82	6.	10.	296.	33.	.2
%RSD	.6774	1.595	.0690	.1527	1.149	.6737	.0592
#1	77.04	51.98	9187.	6635.	25990.	4937.	379.0
#2	77.79	50.82	9178.	6621.	25570.	4890.	378.7

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	513.0	173.2	-1.187	-2.945	1011.	15510.	-2.787
SDev	344.0	11.1	7.897	.652	2.	15184.	.283
%RSD	67.07	6.422	665.5	22.14	.2304	97.88	10.15
#1	756.2	181.1	-6.770	-2.484	1013.	4776.	-2.587
#2	269.7	165.3	4.397	-3.406	1010.	26250.	-2.987

Elem	Si2881
Units	PPB
Avge	315300.
SDev	4085.
%RSD	1.295
#1	318200.
#2	312500.

Method: 6010B Sample Name: 176248-002 Operator: pps
Run Time: 11/29/04 10:11:19
Comment: 96915,10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-8.819	-13.95	50.26	.1400	-.6752	69.24	13.63
SDev	6.676	5.59	.40	.5972	.0036	1.91	3.07
%RSD	75.70	40.06	.7871	426.7	.5270	2.764	22.55
#1	-4.098	-10.00	49.98	.5623	-.6777	70.59	15.81
#2	-13.54	-17.90	50.54	-.2823	-.6727	67.89	11.46

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	16.32	9.224	-1.160	43.80	6.399	-2.888	-88.56
SDev	1.26	71.90	.730	8.67	34.70	.965	11.85
%RSD	7.721	779.5	62.89	19.79	542.3	33.40	13.39
#1	17.21	60.07	-1.676	37.67	30.94	-3.570	-96.94
#2	15.43	-41.62	-.6444	49.93	-18.14	-2.206	-80.18

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	69.82	47.77	8382.	5519.	24070.	4633.	415.1
SDev	1.69	1.25	6.	17.	197.	1.	.4
%RSD	2.419	2.624	.0686	.3144	.8167	.0223	.0851
#1	71.01	46.88	8378.	5507.	24210.	4633.	414.9
#2	68.62	48.65	8386.	5531.	23930.	4632.	415.4

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	698.4	162.4	-.4581	-9.025	923.8	-401.8	-2.868
SDev	287.8	25.8	2.4383	6.094	1.2	22576.	.139
%RSD	41.20	15.90	532.3	67.52	.1334	5619.	4.829
#1	901.9	144.1	-2.182	-13.33	922.9	-16370.	-2.966
#2	494.9	180.6	1.266	-4.716	924.6	15560.	-2.770

Elem	Si2881
Units	PPB
Avge	332500.
SDev	4198.
%RSD	1.263
#1	329600.
#2	335500.

Method: 6010B Sample Name: 176248-003 Operator: pps
Run Time: 11/29/04 10:13:55
Comment: 96915,10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-13.84	2.824	58.50	.0845	.3195	100.6	15.03
SDev	27.53	6.156	.39	.6385	1.405	2.1	2.29
%RSD	198.9	218.0	.6724	756.1	439.7	2.102	15.21
#1	-33.31	-1.529	58.22	-.3670	1.313	102.0	13.42
#2	5.627	7.176	58.77	.5359	-.6738	99.06	16.65

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	18.18	10.33	1.346	58.08	52.48	.8527	-53.96
SDev	.13	30.63	1.564	5.68	48.11	2.071	40.22
%RSD	.7336	296.6	116.2	9.775	91.67	242.8	74.53
#1	18.08	31.99	2.452	54.07	86.50	2.317	-82.41
#2	18.27	-11.33	.2398	62.10	18.46	-.6114	-25.52

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	90.27	56.32	11290.	6678.	30240.	5326.	504.7
SDev	4.05	2.69	1.	6.	79.	24.	.1
%RSD	4.483	4.782	.0052	.0933	.2603	.4569	.0227
#1	93.14	58.22	11290.	6674.	30180.	5343.	504.8
#2	87.41	54.41	11290.	6683.	30290.	5309.	504.7

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	823.3	153.7	-9.067	-7.774	1189.	18220.	-2.996
SDev	384.4	33.9	8.536	7.167	.	11348.	.178
%RSD	46.69	22.07	94.14	92.20	.0306	62.30	5.954
#1	1095.	129.8	-3.032	-12.84	1189.	26240.	-3.122
#2	551.5	177.7	-15.10	-2.706	1189.	10190.	-2.870

Elem	Si2881
Units	PPB
Avge	313600.
SDev	4733.
%RSD	1.509
#1	310300.
#2	317000.

Analysis Report 11/29/04 10:18:14 AM page 1

Method: 6010B Sample Name: 176248-004 Operator: pps
Run Time: 11/29/04 10:16:21
Comment: 96915,10
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	-2.557	15.96	427.9	1.188	.6056	28.26	59.24
SDev	13.633	28.04	3.6	.290	1.852	1.01	.44
%RSD	533.1	175.7	.8362	24.43	305.7	3.570	.7399
#1	-12.20	35.79	430.5	.9825	-.7037	27.55	59.55
#2	7.082	-3.868	425.4	1.393	1.915	28.97	58.93

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	278.3	15.72	2.457	33.27	26.28	-.6673	-35.88
SDev	3.9	20.91	5.489	3.70	7.08	.0149	92.63
%RSD	1.419	133.0	223.4	11.13	26.93	2.231	258.2
#1	281.0	30.51	6.338	30.65	31.29	-.6778	29.63
#2	275.5	.9332	-1.425	35.89	21.28	-.6567	-101.4

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	81.08	44.82	17660.	2439.	57410.	2360.	4340.
SDev	.63	.78	127.	28.	467.	36.	31.
%RSD	.7817	1.732	.7209	1.147	.8140	1.529	.7029
#1	81.53	45.37	17750.	2459.	57740.	2386.	4361.
#2	80.64	44.27	17570.	2419.	57080.	2335.	4318.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	1805.	144.5	1.233	-6.724	939.6	31490.	-1.755
SDev	188.	7.2	12.09	.557	6.4	14944.	.134
%RSD	10.43	5.002	980.9	8.285	.6767	47.45	7.630
#1	1672.	149.7	9.783	-6.330	944.1	20930.	-1.850
#2	1939.	139.4	-7.318	-7.118	935.1	42060.	-1.661

Elem	Si2881
Units	PPB
Avge	275000.
SDev	8385.
%RSD	3.049
#1	280900.
#2	269000.

Method: 6010B Sample Name: 04ws1846 Operator: pps
Run Time: 11/29/04 10:18:51
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1915.	2116.	507.8	508.9	1021.	472.8	473.6
SDev	47.	4.	.1	.3	.	7.5	.8
%RSD	2.456	.1893	.0202	.0686	.0208	1.591	.1605
#1	1949.	2119.	507.9	509.2	1021.	478.2	474.1
#2	1882.	2113.	507.7	508.7	1021.	467.5	473.0

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	513.8	867.9	496.9	983.6	1954.	1018.	2157.
SDev	1.1	73.9	9.1	18.6	1.	1.	97.
%RSD	.2125	8.514	1.823	1.886	.0728	.1117	4.481
#1	513.0	815.7	503.3	970.5	1955.	1019.	2225.
#2	514.5	920.2	490.5	996.7	1953.	1018.	2089.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	501.6	1070.	551600.	S1984000.	177700.	520500.	484.0
SDev	.9	3.	355.	6072.	337.	731.	.9
%RSD	.1858	.2423	.0644	.3061	.1895	.1403	.1852
#1	502.3	1072.	551400.	S1980000.	177400.	520000.	484.6
#2	501.0	1068.	551900.	S1988000.	177900.	521000.	483.3

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-101.3	-256.7	-25.92	-2.718	1959.	-25860.	24.84
SDev	5.1	59.4	1.21	3.696	4.	82544.	.63
%RSD	5.055	23.13	4.687	136.0	.2108	319.2	2.555
#1	-104.9	-214.7	-26.78	-5.332	1962.	-84230.	24.40
#2	-97.67	-298.6	-25.06	-.1040	1956.	32500.	25.29

Elem	Si2881
Units	PPB
Avge	380100.
SDev	5070.
%RSD	1.334
#1	376500.
#2	383700.

Method: 6010B Sample Name: 04ws1781 Operator: pps
Run Time: 11/29/04 10:27:38
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1955.	2038.	1060.	2076.	2087.	1996.	2046.
SDev	37.	31.	5.	13.	15.	13.	1.
%RSD	1.895	1.530	.4553	.6252	.7088	.6671	.0645
#1	1929.	2016.	1057.	2066.	2077.	1987.	2047.
#2	1981.	2060.	1064.	2085.	2098.	2005.	2045.

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2060.	2059.	2103.	2116.	1907.	1065.	2237.
SDev	13.	2.	27.	6.	28.	.	99.
%RSD	.6511	.1096	1.268	.2802	1.462	.0289	4.431
#1	2051.	2058.	2084.	2112.	1888.	1066.	2166.
#2	2070.	2061.	2121.	2120.	1927.	1065.	2307.

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2050.	2097.	1035.	2100.	1845.	2017.	2050.
SDev	11.	4.	5.	9.	5.	9.	7.
%RSD	.5394	.1960	.5099	.4077	.2834	.4588	.3483
#1	2042.	2094.	1031.	2094.	1842.	2011.	2045.
#2	2058.	2100.	1039.	2106.	1849.	2024.	2055.

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	9678.	10610.	2015.	1020.	1940.	7497.	-3.213
SDev	410.	10.	1.	3.	9.	3810.	.280
%RSD	4.236	.0977	.0557	.3340	.4383	50.82	8.705
#1	9388.	10620.	2014.	1017.	1934.	10190.	-3.411
#2	9968.	10610.	2016.	1022.	1946.	4803.	-3.015

Elem	Si2881
Units	PPB
Avge	234500.
SDev	2416.
%RSD	1.030
#1	236300.
#2	232800.

Analysis Report 11/29/04 10:46:59 AM page 1

Method: 6010B Sample Name: ccb Operator: pps
Run Time: 11/29/04 10:31:45
Comment: 96915,1
Mode: CONC Corr. Factor: 1

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	4.112	.9950	.8361	1.703	-.0514	.6807	3.866
SDev	10.32	32.34	.0014	.002	4.7213	1.711	1.087
%RSD	251.0	3250.	.1617	.1317	9179.	251.3	28.10
#1	11.41	23.86	.8352	1.701	-3.390	1.890	4.635
#2	-3.185	-21.87	.8371	1.705	3.287	-.5289	3.098

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	2.898	-33.91	6.566	-6.101	-2.324	1.519	-35.63
SDev	.468	26.11	.799	.890	83.331	.000	25.15
%RSD	16.14	76.99	12.17	14.59	3586.	.0078	70.57
#1	3.228	-52.37	6.001	-6.731	-61.25	1.519	-17.85
#2	2.567	-15.45	7.131	-5.472	56.60	1.519	-53.41

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Avge	1.796	1.808	-2.719	-8.034	-.8751	-1.807	1.225
SDev	.008	.875	8.111	2.246	.4550	7.519	.002
%RSD	.4672	48.41	298.3	27.96	51.99	416.2	.1376
#1	1.790	1.189	-8.454	-9.622	-.5534	-7.123	1.223
#2	1.802	2.427	3.016	-6.445	-1.197	3.510	1.226

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782	S_1820
Units	PPB	PPB	PPB	PPB	PPB	PPB	ppm
Avge	-357.2	18.38	20.72	-5.738	2.085	-6033.	-3.608
SDev	297.2	3.17	3.64	.090	.003	7631.	.205
%RSD	83.20	17.24	17.59	1.573	.1261	126.5	5.695
#1	-567.4	20.62	23.30	-5.802	2.084	-11430.	-3.463
#2	-147.1	16.14	18.14	-5.675	2.087	-636.8	-3.753

Elem	Si2881
Units	PPB
Avge	3196.
SDev	838.
%RSD	26.22
#1	2603.
#2	3789.

CVAA Raw Data

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 44483166 Instrument: MET04 HydraAA HG Analyzer Begun: 30-NOV-2004
Analytical Method: EPA 7470A SOP Version: HG_water_rv7
Analyte: Mercury

#	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
001	96975	ICALBLK	Std01Rep1				30-NOV-2004 12:46	1.0	1.0									
002	96975	ICAL	Std02Rep1				30-NOV-2004 12:48	1.0	1.0									
003	96975	ICAL	Std03Rep1				30-NOV-2004 12:50	1.0	1.0									
004	96975	ICAL	Std04Rep1				30-NOV-2004 12:52	1.0	1.0									
005	96975	ICAL	Std05Rep1				30-NOV-2004 12:54	1.0	1.0									
006	96975	ICAL	Std06Rep1				30-NOV-2004 12:56	1.0	1.0									
007	96975	ICV					30-NOV-2004 13:02	1.0	1.0	2	5.000	44483166001	5.180		ug/L	104		
008	96975	ICB					30-NOV-2004 13:06	1.0	1.0			44483166001	ND	0.20	ug/L			
009	96975	BLANK	QC274264		96975	Soil	30-NOV-2004 13:08	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
010	96975	BS	QC274265		96975	Soil	30-NOV-2004 13:10	1.0	100.0		0.5000	44483166001	0.5420	0.020	mg/Kg	108		u
011	96975	BSD	QC274266		96975	Soil	30-NOV-2004 13:12	1.0	100.0		0.5000	44483166001	0.5500	0.020	mg/Kg	110	1	u
012	96975	MSS	176248-003		96975	Soil	30-NOV-2004 13:14	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
013	96975	SER	QC274298	176248-003	96975	Soil	30-NOV-2004 13:16	5.0	100.0			44483166001	ND	0.10	mg/Kg		--	u
014	96975	MS	QC274267	176248-003	96975	Soil	30-NOV-2004 13:18	1.0	96.15		0.4808	44483166001	0.5288	0.019	mg/Kg	110		u
015	96975	MSD	QC274268	176248-003	96975	Soil	30-NOV-2004 13:20	1.0	87.72		0.4386	44483166001	0.4754	0.018	mg/Kg	108	1	u
016	96975	SAMPLE	176089-013		96975	Soil	30-NOV-2004 13:22	1.0	100.0			44483166001	0.38	0.020	mg/Kg			u
017	96975	SAMPLE	176098-001		96975	Miscel	30-NOV-2004 13:24	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
018	96975	SAMPLE	176098-002		96975	Miscel	30-NOV-2004 13:26	1.0	96.15			44483166001	ND	0.019	mg/Kg			u
019	96975	CCV					30-NOV-2004 13:29	1.0	1.0	3	2.500	44483166001	2.640		ug/L	106		
020	96975	CCB					30-NOV-2004 13:31	1.0	1.0			44483166001	ND	0.20	ug/L			
021	96975	SAMPLE	176160-001		96975	Miscel	30-NOV-2004 13:32	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
022	96975	SAMPLE	176164-001		96975	Soil	30-NOV-2004 13:34	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
023	96975	SAMPLE	176164-002		96975	Soil	30-NOV-2004 13:37	1.0	87.72			44483166001	ND	0.018	mg/Kg			u
024	96975	SAMPLE	176164-003		96975	Soil	30-NOV-2004 13:39	1.0	100.0			44483166001	ND	0.020	mg/Kg			u
025	96975	SAMPLE	176179-001		96975	Soil	30-NOV-2004 13:41	1.0	100.0			44483166001	0.30	0.020	mg/Kg			u
026	96975	SAMPLE	176179-002		96975	Soil	30-NOV-2004 13:43	1.0	83.33			44483166001	0.32	0.017	mg/Kg			u
027	96975	SAMPLE	176179-003		96975	Soil	30-NOV-2004 13:45	1.0	76.92			44483166001	0.81 >LR	0.015	mg/Kg			! >LR c
028	96975	SAMPLE	176179-004		96975	Soil	30-NOV-2004 13:47	1.0	94.34			44483166001	0.61	0.019	mg/Kg			u
029	96975	SAMPLE	176179-005		96975	Soil	30-NOV-2004 13:49	1.0	100.0			44483166001	0.42	0.020	mg/Kg			u
030	96975	SAMPLE	176185-001		96975	Soil	30-NOV-2004 13:51	1.0	87.72			44483166001	0.14	0.018	mg/Kg			u
031	96975	CCV					30-NOV-2004 13:53	1.0	1.0	4	5.000	44483166001	5.360		ug/L	107		
032	96975	CCB					30-NOV-2004 13:55	1.0	1.0			44483166001	ND	0.20	ug/L			
033	96975	SAMPLE	176211-001		96975	Soil	30-NOV-2004 13:58	1.0	94.34			44483166001	0.16	0.019	mg/Kg			u
034	96975	SAMPLE	176226-001		96975	Soil	30-NOV-2004 14:00	1.0	80.65			44483166001	0.047	0.016	mg/Kg			u
035	96975	SAMPLE	176226-002		96975	Soil	30-NOV-2004 14:02	1.0	100.0			44483166001	0.040	0.020	mg/Kg			u
036	96975	SAMPLE	176226-003		96975	Soil	30-NOV-2004 14:04	1.0	100.0			44483166001	0.067	0.020	mg/Kg			u
037	96975	SAMPLE	176280-001		96975	Miscel	30-NOV-2004 14:07	1.0	100.0			44483166001	0.041	0.020	mg/Kg			u
038	96975	SAMPLE	176284-001		96975	Miscel	30-NOV-2004 14:09	1.0	94.34			44483166001	0.041	0.019	mg/Kg			u
039	96975	SAMPLE	176179-003		96975	Soil	30-NOV-2004 14:11	10.0	76.92			44483166001	0.88	0.15	mg/Kg			u
040	96975	CCV					30-NOV-2004 14:13	1.0	1.0	5	7.500	44483166001	8.110		ug/L	108		
041	96975	CCB					30-NOV-2004 14:15	1.0	1.0			44483166001	ND	0.20	ug/L			

Stds used: 1=04WS2244 2=04WS2246 3=04WS2247 4=04WS2248 5=04WS2249
Flags used: !=calc err >LR=overrange b=noncompliant calc=calculation error u=use

Analyst: [signature] Date: 11/30/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MET04 HydraAA HG Analyzer Reviewed By: ---
Calnum: 44483166001 Name: Type: SOIL Date: 30-NOV-2004 12:46 Inj Vol (uL): 2000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	96975	44483166001	Std01Rep1	30-NOV-2004 12:46	
2	96975	44483166002	Std02Rep1	30-NOV-2004 12:48	04WS2244 (500X)
3	96975	44483166003	Std03Rep1	30-NOV-2004 12:50	04WS2244 (200X)
4	96975	44483166004	Std04Rep1	30-NOV-2004 12:52	04WS2244 (50X)
5	96975	44483166005	Std05Rep1	30-NOV-2004 12:54	04WS2244 (20X)
6	96975	44483166006	Std06Rep1	30-NOV-2004 12:56	04WS2244 (10X)

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	Flags
Mercury		65695	47980	49517	48070	46644	LINR	R	-0.08934	2.153E-5		ug/L	51581	1.000	.99	

141

Curves: LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

WinHg Database 1.3

File Utility Help

Protocol hgppb

Dataset/Proto 113004 /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.15262e-5

C -8.93402e-2

Rho .999892

Type Linear

☑ Calibrated

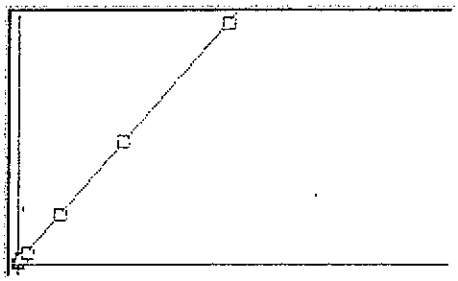
☑ Accepted

Accept

Rel. Abs.
466441

Accepted

New



Conc. 20.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.001	.001	4201	0	4201		
02	.20000	.193	-.007	13139	0%	13139		
03	.50000	.427	-.073	23991	0%	23990		
04	2.0000	2.04	.042	99034	0%	99034		
05	5.0000	5.08	.084	240350	0%	240350		
06	10.000	9.95	-.049	466441	0%	466441		

Ready

CAP NUM

Folder: 113004
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       12:46:13 30 Nov 04   HG

Hg    .000    ppb      4201

*** Standard: 2 Rep: 1              Seq:  2       12:48:08 30 Nov 04   HG

Hg    .200    ppb      13139

*** Standard: 3 Rep: 1              Seq:  3       12:50:20 30 Nov 04   HG

Hg    .500    ppb      23990

*** Standard: 4 Rep: 1              Seq:  4       12:52:15 30 Nov 04   HG

Hg    2.00    ppb      99034

*** Standard: 5 Rep: 1              Seq:  5       12:54:26 30 Nov 04   HG

Hg    5.00    ppb      240350

*** Standard: 6 Rep: 1              Seq:  6       12:56:18 30 Nov 04   HG

Hg    10.0    ppb      466441

*** Check Standard: 2  Ck2WS2246    Seq:  7       13:02:41 30 Nov 04   HG
Line   Flag  %Rcv.   Found    True  Units      SD/RSD
Hg           104.     5.18    5.00  ppb         .000  %

*** Check Standard: 1  Ck1ICB       Seq:  8       13:06:01 30 Nov 04   HG
Line   Flag  Found Range(+/-) Units      SD/RSD
Hg          -.039     .000     ppb        .000  %

*** Sample ID: QC274264             Seq:  9       13:08:05 30 Nov 04   HG
                            96975,1
Hg   -.086    ppb        .000  %  -.086
=============================================================================
*** Sample ID: QC274265             Seq:  10      13:10:20 30 Nov 04   HG
                            96975,1
Hg    5.42    ppb        .000  %   5.42
                                                                         =
=============================================================================
*** Sample ID: QC274266             Seq:  11      13:12:36 30 Nov 04   HG
                            96975,1
Hg    5.50    ppb        .000  %   5.50
                                                                         =
=============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: 176248-003            Seq:  12     13:14:39 30 Nov 04   HG
                            96975,1
Hg    .036    ppb       .000  %   .036
                                                                          =
=============================================================================
*** Sample ID: QC274298              Seq:  13     13:16:32 30 Nov 04   HG
                            96975,5
Hg   -.112    ppb       .000  %  -.112
                                                                          =
=============================================================================
*** Sample ID: QC274267              Seq:  14     13:18:35 30 Nov 04   HG
                            96975,1
Hg    5.50    ppb       .000  %   5.50
                                                                          =
=============================================================================
*** Sample ID: QC274268              Seq:  15     13:20:31 30 Nov 04   HG
                            96975,1
Hg    5.42    ppb       .000  %   5.42
                                                                          =
=============================================================================
*** Sample ID: 176089-013            Seq:  16     13:22:24 30 Nov 04   HG
                            96975,1
Hg    3.78    ppb       .000  %   3.78
                                                                          =
=============================================================================
*** Sample ID: 176098-001            Seq:  17     13:24:32 30 Nov 04   HG
                            96975,1
Hg    .006    ppb       .000  %   .006
                                                                          =
=============================================================================
*** Sample ID: 176098-002            Seq:  18     13:26:41 30 Nov 04   HG
                            96975,1
Hg    .140    ppb       .000  %   .140
                                                                          =
*** Check Standard: 3  Ck3WS2247     Seq:  19     13:29:06 30 Nov 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     2.64    2.50  ppb        .000  %
                                                                          =
*** Check Standard: 6  Ck6CCB        Seq:  20     13:31:02 30 Nov 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^  -.140    .000  ppb        .000  %
                                                                          =
*** Sample ID: 176160-001            Seq:  21     13:32:55 30 Nov 04   HG
                            96975,1
Hg   -.080    ppb       .000  %  -.080
                                                                          =
=============================================================================
```

POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: 176164-001            Seq:  22     13:34:58 30 Nov 04   HG
                          96975,1
Hg    .088    ppb       .000  %   .088
                                                                          =
==============================================================================
*** Sample ID: 176164-002            Seq:  23     13:37:21 30 Nov 04   HG
                          96975,1
Hg    .131    ppb       .000  %   .131
                                                                          =
==============================================================================
*** Sample ID: 176164-003            Seq:  24     13:39:39 30 Nov 04   HG
                          96975,1
Hg    .064    ppb       .000  %   .064
                                                                          =
==============================================================================
*** Sample ID: 176179-001            Seq:  25     13:41:40 30 Nov 04   HG
                          96975,1
Hg    3.00    ppb       .000  %   3.00
                                                                          =
==============================================================================
*** Sample ID: 176179-002            Seq:  26     13:43:36 30 Nov 04   HG
                          96975,1
Hg    3.89    ppb       .000  %   3.89
                                                                          =
==============================================================================
*** Sample ID: 176179-003            Seq:  27     13:45:43 30 Nov 04   HG
                          96975,1
Hg    10.5    ppb       .000  %   10.5
                                                                          =
==============================================================================
*** Sample ID: 176179-004            Seq:  28     13:47:39 30 Nov 04   HG
                          96975,1
Hg    6.43    ppb       .000  %   6.43
                                                                          =
==============================================================================
*** Sample ID: 176179-005            Seq:  29     13:49:38 30 Nov 04   HG
                          96975,1
Hg    4.19    ppb       .000  %   4.19
                                                                          =
==============================================================================
*** Sample ID: 176185-001            Seq:  30     13:51:49 30 Nov 04   HG
                          96975,1
Hg    1.54    ppb       .000  %   1.54
                                                                          =
*** Check Standard: 5  Ck5WS2248     Seq:  31     13:53:46 30 Nov 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          107.     5.36    5.00  ppb        .000  %
                                                                          =
```

Folder: 113004
Protocol: hgppb
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 6  Ck6CCB        Seq:  32      13:55:48 30 Nov 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^  -.099    .000   ppb        .000  %
                                                                          =
*** Sample ID: 176211-001            Seq:  33      13:58:26 30 Nov 04   HG
                            96975,1
Hg    1.71    ppb       .000  %   1.71
                                                                          =
===========================================================================
*** Sample ID: 176226-001            Seq:  34      14:00:24 30 Nov 04   HG
                            96975,1
Hg    .584    ppb       .000  %   .584
                                                                          =
===========================================================================
*** Sample ID: 176226-002            Seq:  35      14:02:17 30 Nov 04   HG
                            96975,1
Hg    .404    ppb       .000  %   .404
                                                                          =
===========================================================================
*** Sample ID: 176226-003            Seq:  36      14:04:41 30 Nov 04   HG
                            96975,1
Hg    .670    ppb       .000  %   .670
                                                                          =
===========================================================================
*** Sample ID: 176280-001            Seq:  37      14:07:06 30 Nov 04   HG
                            96975,1
Hg    .412    ppb       .000  %   .412
                                                                          =
===========================================================================
*** Sample ID: 176284-001            Seq:  38      14:09:01 30 Nov 04   HG
                            96975,1
Hg    .435    ppb       .000  %   .435
                                                                          =
===========================================================================
*** Sample ID: 176179-003            Seq:  39      14:11:06 30 Nov 04   HG
                            96975,10
Hg    1.15    ppb       .000  %   1.15
                                                                          =
*** Check Standard: 4  Ck4WS2249     Seq:  40      14:13:01 30 Nov 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          108.     8.11   7.50   ppb        .000  %
                                                                          =
*** Check Standard: 6  Ck6CCB        Seq:  41      14:15:07 30 Nov 04   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          ^^^^^^  -.072    .000   ppb        .000  %
                                                                          =
```

MOISTURE DATA

Percent Moisture Summary Report

Batch: 96865
Date: 11/24/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176248-001	15.5434	23.9600	23.4925	94	6
176248-002	15.4465	23.5327	23.3143	97	3
176248-003	14.9821	22.6910	22.5478	98	2
176248-004	15.3700	22.9022	22.3052	92	8
176248-005	15.0683	22.2974	21.7303	92	8
176249-016	15.5595	22.1219	20.7060	78	22
176249-017	15.2583	22.1430	20.9833	83	17
176249-019	15.3766	22.4577	20.5212	73	27
176249-020	15.2447	22.4425	21.1445	82	18
176250-010	15.5308	23.1413	21.7977	82	18
176250-011	15.5331	23.8455	21.9568	77	23
176250-012	15.3151	23.8502	21.9372	78	22
QC273791	15.4170	22.1651	21.8127	95	5
of 176248-001			RPD:	0.4%	6.2%

Curtis & Tompkins Laboratories Sample Batch Report

Curtis & Tompkins, Ltd.

Batch Number: 96865
Date Started: 24-NOV-2004
Batched by : Kristen Ann Carlyon

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
176248-001			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-002			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-003			Treadwell & Rollo	Soil	MOISTURE	02-DEC-2004
176248-004			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-005			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176249-016			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-017			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-019			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-020			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-010			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-011			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-012			Innovative Technic	Soil	MOISTURE	30-NOV-2004
QC273791	SDUP	of 176248-001		Soil	MOISTURE	

WET CHEMISTRY DEPARTMENT

DATA PACKAGE REVIEW CHECKLIST

Lab No: 96865 Analysis: MOISTURE

Matrix: Water ___ Soil ✓ Misc. ___ Other

I. Contents & Documentation

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		1. Sample prep information present & complete	☐	
☑	☐		2. Run logs present & complete	☐	
☑	☐		3. Sample raw data present	☐	
☑	☐		4. Standards LIMS ID's documented	☐	☐
☐	☐	☑	5. CAR present & complete (if necessary)	☐	☐
☑	☐		6. Analyst entries complete, legible, initialed		

II. Sample Results

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		7. All requested samples analyzed	☐	☐
☑	☐		8. All samples analyzed within hold	☐	☐
☑	☐		9. Units correct for sample matrix	☐	
☑	☐		10. Data transcribed correctly from raw to forms	☐	
☑	☐		11. All results within calibration range	☐	
☐	☐	☑	12. All dilutions in upper half of curve	☐	
☐	☐	☑	13. All matrix interferences documented		

III. Batch QC & Calibration Checks

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐	☐	14. Method blank clean	☐	☐
☐	☐	☑	15. LCS/BS/BSD recoveries & RPD within QC limits	☐	☐
☑	☐	☐	16. Matrix QC performed on a sample in this batch? If not, ☐ Insufficient sample volume available for matrix QC, or ☐ Other (describe) ___	☐	☐
☑	☐	☐	17. Matrix QC recoveries &/or RPD within QC limits	☐	
☐	☐	☑	18. ICV recovery within QC limits	☐	
☐	☐	☑	19. CCV recoveries within QC limits		

Comments:

☐ Additional Comments Attached

Analyst: By: D. Manuel Date: 11-24-04

Peer Review By: ___ Date: ___

Group Leader Approved: ___ Date: 11/24/04

PROJECT MOISTURE

Notebook No. 2033
Continued From Page Ø

11/23/04

96865

Sample	Dir.	Digit #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	3	15.4086	—	15.4287	
176248-001	A	4	15.5434	23.9600	23.4925	Taken from B side
176248-001 DUP		46	15.4170	22.1651	21.8127	
-002		101	15.4465	23.5327	23.3143	
-003		16	14.9821	22.6910	22.5478	
-004		30	15.3700	22.9022	22.3052	
-005		134	15.0683	22.2974	21.7303	
176249-016	A	29	15.5595	22.1219	20.7060	COMP 1-3
-017		146	15.2583	22.1430	20.9833	COMP 4-6
~~-018~~		~~39~~	~~15.4996~~	~~23.0892~~	~~21.8674~~	~~Repeat~~ ~~COMP 3,9~~
-019		40	15.3766	22.4577	20.5272	COMP 10-12
-020		24	15.2417	22.4425	21.1445	COMP 13-15
176250-010	A	18	15.5308	23.1413	21.7977	COMP 1-3
011	A	177	15.5331	23.8455	21.9568	COMP 4-6
012	A	34	15.3151	23.8502	21.9372	COMP 7-9

Oven Temp: 104°C
Time In: 10:30 PM
Time Out: 10:30 A.M. On: 11-24-04

Continued on Page

Read and Understood By

Kristen Carlyon 11/23/04 Signed Date

Signed 11/24/04 Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 /

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RGM				
103°C	11-2-04	RGM				
105°C	11-3-04	RGM				
104°C	11-4-04	RGM				
105°C	11-5-04	RGM				
103°C	11-8-04	RGM				
104	~~11-9-04~~	RGM				
105°C	11-10-04	RGM				
105°C	11-11-04	RGM				
105°C	11-12-04	RGM				
105°C	11-15-04	RGM				
105°C	11-16-04	RGM				
105°C	11-17-04	RGM				
104°C	11-18-04	RGM				
104°C	11-19-04	RGM				
103°C	11-22-04	RGM				
103°C	11-23-04	RGM				
103°C	11-24-04	RGM				

000069

PROJECT METTLER A-E 200 BALANCE

Notebook No. [illegible]

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RSM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RSM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RSM	35298

Continued on Page

Read and Understood By

R. Manuel — Signed

11-22-04 — Date

Signed

Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Polychlorinated Biphenyls (PCBs)

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX154[0.5]	176248-001
DUP112304A	176248-002
BB3EX153[0.5]	176248-003
BB3EX151[0.5]	176248-004
BB3EX152[0.5]	176248-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PCBS (EPA 8082)

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 11/23/04. The samples were received cold and intact.

PCBs (EPA 8082):

High recovery was observed for Aroclor-1254 in the MSD of BB3EX153[0.5] (lab # 176248-003); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.

High recoveries were observed for Aroclor-1254 in the MS/MSD of BB3EX152[0.5] (lab # 176248-005); the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.

High surrogate recovery was observed for TCMX in the MSD of BB3EX153[0.5] (lab # 176248-003).

High surrogate recoveries were observed for decachlorobiphenyl and TCMX in the MSD of BB3EX153[0.5] (lab # 176248-003) and the MS/MSD of BB3EX152[0.5] (lab # 176248-005).

No other analytical problems were encountered.

Chain of Custody

176248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893 12
Project Manager\Contact: Sigrida Rainis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	PCB	Pesticides	VOC	SVOC	mercury	chlor. herb.	TPH-d	TPH-g				Silica gel clean-up	Hold	Remarks
-1 BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X												~~MS/MSD~~ GPE
-2 DUP112304A		1242		X						1		X	X	X												
-3 BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X				X		* 5 day TAT MS/MSD
-4 BB3EX151[0.5]		1254		X						1		X	X	X												
-5 BB3EX152[0.5]		1257		X						1		X	X	X												MS/MSD
-6 TB112304A		1315		X			2								X											

LEVEL IV data package
sample all types, from end labeled with a "B"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/23/04	1455	Tony Pope	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/22/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/23/04
Units:	ug/Kg	Received:	11/23/04
Diln Fac:	1.000		

Field ID:	BB3EX154[0.5]	Batch#:	96828
Type:	SAMPLE	Prepared:	11/23/04
Lab ID:	176248-001	Analyzed:	11/24/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	6%		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	109	65-135
Decachlorobiphenyl	130	65-135

Field ID:	DUP112304A	Batch#:	96828
Type:	SAMPLE	Prepared:	11/23/04
Lab ID:	176248-002	Analyzed:	11/24/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	3%		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	113	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/23/04
Units:	ug/Kg	Received:	11/23/04
Diln Fac:	1.000		

Field ID:	BB3EX153[0.5]	Batch#:	96948
Type:	SAMPLE	Prepared:	11/29/04
Lab ID:	176248-003	Analyzed:	11/29/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	2%		

Analyte	Result	RL
Aroclor-1016	ND	9.8
Aroclor-1221	ND	20
Aroclor-1232	ND	9.8
Aroclor-1242	ND	9.8
Aroclor-1248	ND	9.8
Aroclor-1254	ND	9.8
Aroclor-1260	ND	9.8

Surrogate	%REC	Limits
TCMX	100	65-135
Decachlorobiphenyl	123	65-135

Field ID:	BB3EX151[0.5]	Batch#:	96828
Type:	SAMPLE	Prepared:	11/23/04
Lab ID:	176248-004	Analyzed:	11/24/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	8%		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	101	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/23/04
Units:	ug/Kg	Received:	11/23/04
Diln Fac:	1.000		

Field ID:	BB3EX152[0.5]	Batch#:	96948
Type:	SAMPLE	Prepared:	11/29/04
Lab ID:	176248-005	Analyzed:	11/29/04
Basis:	dry	Cleanup Method:	EPA 3665A
Moisture:	8%		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	109	65-135

Type:	BLANK	Prepared:	11/23/04
Lab ID:	QC273646	Analyzed:	11/24/04
Basis:	as received	Cleanup Method:	EPA 3665A
Batch#:	96828		

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	102	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/23/04
Units:	ug/Kg	Received:	11/23/04
Diln Fac:	1.000		

Type:	BLANK	Prepared:	11/29/04
Lab ID:	QC274146	Analyzed:	11/30/04
Basis:	as received	Cleanup Method:	EPA 3665A
Batch#:	96948		

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	123	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC273647	Batch#:	96828
Matrix:	Soil	Prepared:	11/23/04
Units:	ug/Kg	Analyzed:	11/24/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	166.8	159.0	95	65-135

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	90	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC274147	Batch#:	96948
Matrix:	Soil	Prepared:	11/29/04
Units:	ug/Kg	Analyzed:	11/30/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	169.0	183.3	108	65-135

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	112	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	96828
MSS Lab ID:	176180-011	Sampled:	11/19/04
Matrix:	Soil	Received:	11/19/04
Units:	ug/Kg	Prepared:	11/23/04
Basis:	dry	Analyzed:	11/24/04
Diln Fac:	1.000		

Type:	MS	Moisture:	22%
Lab ID:	QC273648	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<3.718	214.4	209.3	98	65-135

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	98	65-135

Type:	MSD	Moisture:	22%
Lab ID:	QC273649	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	425.6	357.7	84	65-135	15	35

Surrogate	%REC	Limits
TCMX	65	65-135
Decachlorobiphenyl	90	65-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX153[0.5]	Batch#:	96948
MSS Lab ID:	176248-003	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/29/04
Basis:	dry	Analyzed:	11/30/04
Diln Fac:	1.000		

Type:	MS	Moisture:	2%
Lab ID:	QC274148	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<4.490	171.6	212.6	124	65-135

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	111	65-135

Type:	MSD	Moisture:	2%
Lab ID:	QC274149	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	172.5	298.6	173 *	65-135	33	35

Surrogate	%REC	Limits
TCMX	147 *	65-135
Decachlorobiphenyl	165 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	BB3EX152[0.5]	Batch#:	96948
MSS Lab ID:	176248-005	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/29/04
Basis:	dry	Analyzed:	11/30/04
Diln Fac:	1.000		

Type:	MS	Moisture:	8%
Lab ID:	QC274150	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<4.783	178.5	275.8	154 *	65-135

Surrogate	%REC	Limits
TCMX	310 *	65-135
Decachlorobiphenyl	170 *	65-135

Type:	MSD	Moisture:	8%
Lab ID:	QC274151	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	180.3	314.0	174 *	65-135	12	35

Surrogate	%REC	Limits
TCMX	128	65-135
Decachlorobiphenyl	163 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	316_009	204456284009	pcb10_2	11-NOV-2004 20:44	04WS1786
2	316_010	204456284010	pcb25_5	11-NOV-2004 21:18	04WS1787
3	316_011	204456284011	pcb100_20	11-NOV-2004 21:51	04WS1788
4	316_012	204456284012	pcb250_50	11-NOV-2004 22:24	04WS1789
5	316_013	204456284013	pcb500_100	11-NOV-2004 22:57	04WS1790
6	316_014	204456284014	pcb750_150	11-NOV-2004 23:30	04WS1791
7	316_015	204456284015	pcb1k_200	12-NOV-2004 00:04	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	261.48	241.89	254.35	221.65	239.37	241.18	224.28	AVRG	R		0.004156		pg	240.60	6	.99	20	
Aroclor-1016 Peak # 2	A	533.49	499.25	525.72	415.19	433.65	428.19	393.83	AVRG	R		0.002168		pg	461.33	12	.99	20	
Aroclor-1016 Peak # 3	A	564.73	533.69	549.22	458.79	502.50	495.49	465.89	AVRG	R		0.001961		pg	510.05	8	.99	20	
Aroclor-1016 Peak # 4	A	242.53	237.94	243.00	205.66	232.89	231.63	220.30	AVRG	R		0.004337		pg	230.56	6	.99	20	
Aroclor-1016 Peak # 5	A	103.40	209.91	187.31	156.99	172.29	171.77	160.49	AVRG	R		0.006023		pg	166.02	20	.99	20	
Aroclor-1260 Peak # 1	A	268.40	246.51	258.02	213.38	233.79	224.81	212.27	AVRG	R		0.004224		pg	236.74	9	.99	20	
Aroclor-1260 Peak # 2	A	376.99	357.86	338.29	277.22	313.06	301.86	290.13	AVRG	R		0.003104		pg	322.20	11	.99	20	
Aroclor-1260 Peak # 3	A	420.08	413.71	429.64	344.80	377.40	351.04	334.25	AVRG	R		0.002621		pg	381.56	10	.99	20	
Aroclor-1260 Peak # 4	A	599.44	404.88	489.66	374.38	418.02	388.99	373.66	AVRG	R		0.002296		pg	435.58	19	.99	20	
Aroclor-1260 Peak # 5	A	1155.8	1092.0	994.64	771.29	859.63	789.20	759.96	AVRG	R		0.001090		pg	917.50	18	.99	20	
TCMX	A	13516	12108	11529	9793.1	10589	10651	10004	AVRG	R		8.953E-5		pg	11170	12	.99	20	
Decachlorobiphenyl	A			10187	7756.8	8364.6	7334.6	7076.3	AVRG	R		1.228E-4		pg	8143.9	15	.99	20	
Aroclor-1016 Peak # 1	B	473.52	445.14	452.81	426.78	418.49	427.42	380.14	AVRG	R		0.002315		pg	432.04	7	.99	20	
Aroclor-1016 Peak # 2	B	766.85	669.70	630.16	534.47	533.49	527.36	472.92	AVRG	R		0.001693		pg	590.71	17	.99	20	
Aroclor-1016 Peak # 3	B	1878.2	1673.6	1602.8	1404.9	1429.9	1391.1	1277.9	AVRG	R		6.568E-4		pg	1522.6	14	.99	20	
Aroclor-1016 Peak # 4	B	398.83	380.82	383.28	439.40	459.90	455.53	423.28	AVRG	R		0.002380		pg	420.15	8	.99	20	
Aroclor-1016 Peak # 5	B	572.52	549.99	549.41	458.42	469.07	454.38	417.50	AVRG	R		0.002017		pg	495.90	12	.99	20	
Aroclor-1260 Peak # 1	B	1235.0	1244.3	1097.3	884.25	905.35	831.63	797.70	AVRG	R		0.001001		pg	999.37	19	.99	20	
Aroclor-1260 Peak # 2	B	1402.9	1421.5	1383.1	1155.0	1218.0	1080.6	1062.5	AVRG	R		8.024E-4		pg	1246.2	12	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	800.72	867.86	708.74	580.23	600.39	543.62	536.02	AVRG	R		0.001509		pg	662.51	20	.99	20	
Aroclor-1260 Peak # 4	B	804.18	835.16	813.93	620.14	657.60	597.79	597.96	AVRG	R		0.001421		pg	703.82	15	.99	20	
Aroclor-1260 Peak # 5	B	1856.5	1777.6	1580.0	1233.9	1312.1	1184.5	1158.3	AVRG	R		6.929E-4		pg	1443.3	20	.99	20	
TCMX	B	26232	23416	20877	17308	17565	17236	15914	AVRG	R		5.052E-5		pg	19793	19	.99	20	
Decachlorobiphenyl	B			12404	9082.8	9422.3	8255.5	7950.1	AVRG	R		1.061E-4		pg	9422.9	19	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Calname :
Calnum : 204456284001 Caldate : 11-NOV-2004 Caltype :

ICV 204456284020 (316_020) standards: 04WS2171

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	204456284020	12-NOV-2004	250.00	281.00	pg	12	15
Aroclor-1260	A	204456284020	12-NOV-2004	250.00	259.47	pg	4	15
TCMX	A	204456284020	12-NOV-2004	50.000	51.330	pg	3	15
Decachlorobiphenyl	A	204456284020	12-NOV-2004	50.000	59.959	pg	20	15
Aroclor-1016	B	204456284020	12-NOV-2004	250.00	260.55	pg	4	15
Aroclor-1260	B	204456284020	12-NOV-2004	250.00	256.62	pg	3	15
TCMX	B	204456284020	12-NOV-2004	50.000	47.058	pg	-6	15
Decachlorobiphenyl	B	204456284020	12-NOV-2004	50.000	58.172	pg	16	15

INITIAL CALIBRATION REPORT FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204461493001 Name: Type: (normal) Date: 15-NOV-2004 12:43 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	320_004	204461493004	ar1254	15-NOV-2004 12:43	04WS2184

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	361.99	AVRG	R		0.002762		pg	361.99	0	.99	20	
Aroclor-1254 Peak # 2	A	656.87	AVRG	R		0.001522		pg	656.87	0	.99	20	
Aroclor-1254 Peak # 3	A	392.50	AVRG	R		0.002548		pg	392.50	0	.99	20	
Aroclor-1254 Peak # 4	A	458.04	AVRG	R		0.002183		pg	458.04	0	.99	20	
Aroclor-1254 Peak # 5	A	471.56	AVRG	R		0.002121		pg	471.56	0	.99	20	
Aroclor-1254 Peak # 1	B	822.63	AVRG	R		0.001216		pg	822.63	0	.99	20	
Aroclor-1254 Peak # 2	B	1102.5	AVRG	R		9.071E-4		pg	1102.5	0	.99	20	
Aroclor-1254 Peak # 3	B	715.23	AVRG	R		0.001398		pg	715.23	0	.99	20	
Aroclor-1254 Peak # 4	B	1244.6	AVRG	R		8.034E-4		pg	1244.6	0	.99	20	
Aroclor-1254 Peak # 5	B	279.17	AVRG	R		0.003582		pg	279.17	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254452018001 Name: Type: (normal) Date: 08-NOV-2004 21:38 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	314_009	254452018009	pcb10_2	08-NOV-2004 21:38	04WS1786
2	314_010	254452018010	pcb25_5	08-NOV-2004 22:05	04WS1787
3	314_011	254452018011	pcb100_20	08-NOV-2004 22:33	04WS1788
4	314_012	254452018012	pcb250_50	08-NOV-2004 23:01	04WS1789
5	314_013	254452018013	pcb500_100	08-NOV-2004 23:28	04WS1790
6	314_014	254452018014	pcb750_150	08-NOV-2004 23:56	04WS1791
7	314_015	254452018015	pcb1k_200	09-NOV-2004 00:24	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	126.20	118.24	111.27	98.534	91.700	100.31	93.412	AVRG	R		0.009464		pg	105.67	12	.99	20	
Aroclor-1016 Peak # 2	A	64.307	72.784	62.473	55.401	51.357	57.402	53.299	AVRG	R		0.016786		pg	59.575	13	.99	20	
Aroclor-1016 Peak # 3	A	39.970	42.383	37.983	33.613	31.301	35.144	32.471	AVRG	R		0.027683		pg	36.124	11	.99	20	
Aroclor-1016 Peak # 4	A	76.232	73.020	62.070	58.755	51.607	59.912	55.095	AVRG	R		0.016030		pg	62.385	15	.99	20	
Aroclor-1016 Peak # 5	A	41.034	43.969	38.603	35.792	33.247	36.400	35.001	AVRG	R		0.026511		pg	37.721	10	.99	20	
Aroclor-1260 Peak # 1	A	121.55	120.78	106.96	90.568	82.335	91.953	84.850	AVRG	R		0.010014		pg	99.856	17	.99	20	
Aroclor-1260 Peak # 2	A	183.25	178.81	161.54	136.29	123.09	138.26	127.22	AVRG	R		0.006676		pg	149.78	16	.99	20	
Aroclor-1260 Peak # 3	A	84.366	77.160	73.093	64.368	58.998	67.004	61.553	AVRG	R		0.014387		pg	69.506	13	.99	20	
Aroclor-1260 Peak # 4	A	87.700	88.617	83.219	71.435	65.471	74.791	69.205	AVRG	R		0.012952		pg	77.206	12	.99	20	
Aroclor-1260 Peak # 5	A	162.63	193.08	178.02	151.47	136.77	157.74	145.73	AVRG	R		0.006220		pg	160.78	12	.99	20	
TCMX	A	3685.3	3631.3	3160.6	2753.1	2593.8	2871.2	2687.4	AVRG	R		3.274E-4		pg	3054.7	15	.99	20	
Decachlorobiphenyl	A	1397.4	1488.3	1350.1	1189.9	1070.9	1266.6	1199.4	AVRG	R		7.810E-4		pg	1280.4	11	.99	20	
Aroclor-1016 Peak # 1	B	61.574	49.238	53.061	50.031	43.734	50.682	46.712	AVRG	R		0.019717		pg	50.719	11	.99	20	
Aroclor-1016 Peak # 2	B	94.725	75.925	80.169	65.461	61.818	65.983	61.367	AVRG	R		0.013849		pg	72.207	17	.99	20	
Aroclor-1016 Peak # 3	B	269.34	221.44	233.99	191.92	177.31	188.01	175.28	AVRG	R		0.004803		pg	208.18	17	.99	20	
Aroclor-1016 Peak # 4	B	75.935	55.300	66.151	55.216	52.066	56.068	52.409	AVRG	R		0.016943		pg	59.021	15	.99	20	
Aroclor-1016 Peak # 5	B	96.000	75.920	76.865	63.212	59.258	62.977	58.853	AVRG	R		0.014196		pg	70.441	19	.99	20	
Aroclor-1260 Peak # 1	B	148.87	130.31	132.66	104.77	95.228	98.227	91.434	AVRG	R		0.008734		pg	114.50	20	.99	20	
Aroclor-1260 Peak # 2	B	150.30	129.80	139.42	110.47	98.452	101.26	94.174	AVRG	R		0.008496		pg	117.70	19	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254452018001 Name: Type: (normal) Date: 08-NOV-2004 21:38 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	95.775	78.294	88.491	70.592	62.055	65.055	60.072	AVRG	R		0.013453		pg	74.334	18	.99	20	
Aroclor-1260 Peak # 4	B	107.43	86.227	96.360	76.748	69.210	71.256	66.393	AVRG	R		0.012203		pg	81.946	19	.99	20	
Aroclor-1260 Peak # 5	B	231.04	183.35	214.07	165.48	144.54	154.24	144.71	AVRG	R		0.005657		pg	176.77	19	.99	20	
TCMX	B	3671.2	3109.2	3290.1	2716.4	2558.1	2771.4	2592.1	AVRG	R		3.380E-4		pg	2958.4	14	.99	20	
Decachlorobiphenyl	B		1720.2	1773.4	1345.4	1216.1	1233.3	1177.4	AVRG	R		7.087E-4		pg	1411.0	19	.99	20	

21

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC22 Calname :
Calnum : 254452018001 Caldate : 08-NOV-2004 Caltype :

ICV 254452018018 (314_018) standards: 04WS1609

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	254452018018	09-NOV-2004	250.00	254.14	pg	2	15
Aroclor-1260	A	254452018018	09-NOV-2004	250.00	250.69	pg	0	15
TCMX	A	254452018018	09-NOV-2004	50.000	44.913	pg	-10	15
Decachlorobiphenyl	A	254452018018	09-NOV-2004	50.000	42.923	pg	-14	15
Aroclor-1016	B	254452018018	09-NOV-2004	250.00	262.57	pg	5	15
Aroclor-1260	B	254452018018	09-NOV-2004	250.00	247.76	pg	-1	15
TCMX	B	254452018018	09-NOV-2004	50.000	47.767	pg	-4	15
Decachlorobiphenyl	B	254452018018	09-NOV-2004	50.000	44.121	pg	-12	15

INITIAL CALIBRATION REPORT FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: MCH
Calnum: 254453315001 Name: Type: (normal) Date: 09-NOV-2004 20:37 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	315_005	254453315005	ar1254	09-NOV-2004 20:37	04WS2063

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	72.688	AVRG	R		0.013757		pg	72.688	0	.99	20	
Aroclor-1254 Peak # 2	A	126.35	AVRG	R		0.007915		pg	126.35	0	.99	20	
Aroclor-1254 Peak # 3	A	78.599	AVRG	R		0.012723		pg	78.599	0	.99	20	
Aroclor-1254 Peak # 4	A	129.46	AVRG	R		0.007725		pg	129.46	0	.99	20	
Aroclor-1254 Peak # 5	A	89.314	AVRG	R		0.011196		pg	89.314	0	.99	20	
Aroclor-1254 Peak # 1	B	86.697	AVRG	R		0.011534		pg	86.697	0	.99	20	
Aroclor-1254 Peak # 2	B	117.02	AVRG	R		0.008546		pg	117.02	0	.99	20	
Aroclor-1254 Peak # 3	B	84.249	AVRG	R		0.011870		pg	84.249	0	.99	20	
Aroclor-1254 Peak # 4	B	146.22	AVRG	R		0.006839		pg	146.22	0	.99	20	
Aroclor-1254 Peak # 5	B	30.722	AVRG	R		0.032550		pg	30.722	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004			250.00	242.25	pg	-3	15	
GC06	B	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004			250.00	264.56	pg	6	15	
GC06	A	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004			500.00	439.63	pg	-12	15	
GC06	B	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004			500.00	459.69	pg	-8	15	
GC06	A	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004			250.00	226.09	pg	-10	15	
GC06	B	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004			250.00	270.35	pg	8	15	
GC22	A	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004			250.00	230.56	pg	-8	15	
GC22	B	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004			250.00	219.39	pg	-12	15	
GC22	A	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004			500.00	459.05	pg	-8	15	
GC22	B	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004			500.00	499.38	pg	0	15	
GC22	A	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004			250.00	255.22	pg	2	15	
GC22	B	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004			250.00	259.50	pg	4	15	

CONTINUING CALIBRATION SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204481766005	29-NOV-2004 14:49	204461493001	15-NOV-2004			250.00	272.34	pg	9	15	
GC06	B	204481766005	29-NOV-2004 14:49	204461493001	15-NOV-2004			250.00	265.02	pg	6	15	
GC06	A	204481766021	30-NOV-2004 02:44	204461493001	15-NOV-2004			250.00	232.22	pg	-7	15	
GC06	B	204481766021	30-NOV-2004 02:44	204461493001	15-NOV-2004			250.00	239.74	pg	-4	15	
GC06	A	204481766036	30-NOV-2004 11:02	204461493001	15-NOV-2004			250.00	249.18	pg	0	15	
GC06	B	204481766036	30-NOV-2004 11:02	204461493001	15-NOV-2004			250.00	263.96	pg	6	15	
GC06	A	204481766049	30-NOV-2004 18:15	204461493001	15-NOV-2004			250.00	248.90	pg	0	15	
GC06	B	204481766049	30-NOV-2004 18:15	204461493001	15-NOV-2004			250.00	276.30	pg	11	15	
GC06	A	204481766065	01-DEC-2004 14:22	204461493001	15-NOV-2004			250.00	219.51	pg	-12	15	
GC06	B	204481766065	01-DEC-2004 14:22	204461493001	15-NOV-2004			250.00	245.15	pg	-2	15	
GC22	A	254473018032	24-NOV-2004 02:56	254453315001	09-NOV-2004			250.00	271.16	pg	8	15	
GC22	B	254473018032	24-NOV-2004 02:56	254453315001	09-NOV-2004			250.00	254.61	pg	2	15	
GC22	A	254473018042	24-NOV-2004 17:41	254453315001	09-NOV-2004			250.00	302.48	pg	21	15	c+ ***
GC22	B	254473018042	24-NOV-2004 17:41	254453315001	09-NOV-2004			250.00	280.02	pg	12	15	
GC22	A	254473018058	25-NOV-2004 01:02	254453315001	09-NOV-2004			250.00	308.71	pg	23	15	c+ ***
GC22	B	254473018058	25-NOV-2004 01:02	254453315001	09-NOV-2004			250.00	275.26	pg	10	15	

Ch. B used

mwa 02/29/04

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004			250.00	244.94	pg	-2	15	
GC06	B	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004			250.00	252.58	pg	1	15	
GC06	A	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004			500.00	434.25	pg	-13	15	
GC06	B	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004			500.00	429.77	pg	-14	15	
GC06	A	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004			250.00	216.42	pg	-13	15	
GC06	B	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004			250.00	222.69	pg	-11	15	
GC22	A	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004			250.00	250.23	pg	0	15	
GC22	B	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004			250.00	230.21	pg	-8	15	
GC22	A	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004			500.00	561.11	pg	12	15	
GC22	B	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004			500.00	515.08	pg	3	15	
GC22	A	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004			250.00	329.41	pg	32	15	c+ *** Ch. B used
GC22	B	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004			250.00	283.87	pg	14	15	

mcd 12/29/04

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags	
GC06	A	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004	11170	10090	50.000	45.168	pg	-10	15		
GC06	B	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004	19793	18445	50.000	46.596	pg	-7	15		
GC06	A	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004	11170	9302.0	100.00	83.277	pg	-17	15	c-	Met in-house limits
GC06	B	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004	19793	15940	100.00	80.537	pg	-19	15	c-	
GC06	A	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004	11170	10674	50.000	47.781	pg	-4	15		
GC06	B	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004	19793	19345	50.000	48.868	pg	-2	15		
GC06	A	204481766047	30-NOV-2004 17:08	204456284001	11-NOV-2004	11170	10718	100.00	95.955	pg	-4	15		
GC06	B	204481766047	30-NOV-2004 17:08	204456284001	11-NOV-2004	19793	18793	100.00	94.951	pg	-5	15		
GC06	A	204481766062	01-DEC-2004 12:42	204456284001	11-NOV-2004	11170	10750	50.000	48.118	pg	-4	15		
GC06	B	204481766062	01-DEC-2004 12:42	204456284001	11-NOV-2004	19793	19134	50.000	48.335	pg	-3	15		
GC22	A	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004	3054.7	2820.9	50.000	46.173	pg	-8	15		
GC22	B	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004	2958.4	2677.9	50.000	45.260	pg	-9	15		
GC22	A	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004	3054.7	2888.7	100.00	94.568	pg	-5	15		
GC22	B	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004	2958.4	3099.0	100.00	104.75	pg	5	15		
GC22	A	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004	3054.7	3434.4	50.000	56.215	pg	12	15		
GC22	B	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004	2958.4	3051.5	50.000	51.574	pg	3	15		

-=low bias c=CCV

Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004	8143.9	8517.9	50.000	52.297	pg	5	15	
GC06	B	204481766004	29-NOV-2004 13:59	204456284001	11-NOV-2004	9422.9	10127	50.000	53.737	pg	7	15	
GC06	A	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004	8143.9	7103.3	100.00	87.223	pg	-13	15	
GC06	B	204481766018	30-NOV-2004 01:05	204456284001	11-NOV-2004	9422.9	8239.9	100.00	87.446	pg	-13	15	
GC06	A	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004	8143.9	6981.7	50.000	42.865	pg	-14	15	
GC06	B	204481766034	30-NOV-2004 09:56	204456284001	11-NOV-2004	9422.9	8074.9	50.000	42.847	pg	-14	15	
GC06	A	204481766047	30-NOV-2004 17:08	204456284001	11-NOV-2004	8143.9	7095.9	100.00	87.131	pg	-13	15	
GC06	B	204481766047	30-NOV-2004 17:08	204456284001	11-NOV-2004	9422.9	8294.4	100.00	88.025	pg	-12	15	
GC06	A	204481766062	01-DEC-2004 12:42	204456284001	11-NOV-2004	8143.9	7902.1	50.000	48.516	pg	-3	15	
GC06	B	204481766062	01-DEC-2004 12:42	204456284001	11-NOV-2004	9422.9	9276.8	50.000	49.225	pg	-2	15	
GC22	A	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004	1280.4	1249.1	50.000	48.779	pg	-2	15	
GC22	B	254473018030	24-NOV-2004 02:01	254452018001	08-NOV-2004	1411.0	1320.8	50.000	46.807	pg	-6	15	
GC22	A	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004	1280.4	1611.7	100.00	125.88	pg	26	15	c+
GC22	B	254473018041	24-NOV-2004 16:51	254452018001	08-NOV-2004	1411.0	1478.1	100.00	104.76	pg	5	15	
GC22	A	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004	1280.4	1710.3	50.000	66.788	pg	34	15	c+
GC22	B	254473018056	25-NOV-2004 00:07	254452018001	08-NOV-2004	1411.0	1694.8	50.000	60.058	pg	20	15	c+

Ch. B used

Met in-house limits 1/5/05 SDS

mcm 12/29/04

+=high bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254452018 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 08-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
008	314_008	X	hex			08-NOV-2004 21:10	1.0						
009	314_009	ICAL	pcb10_2			08-NOV-2004 21:38	1.0	1.0				1	
010	314_010	ICAL	pcb25_5			08-NOV-2004 22:05	1.0	1.0				2	
011	314_011	ICAL	pcb100_20			08-NOV-2004 22:33	1.0	1.0				3	
012	314_012	ICAL	pcb250_50			08-NOV-2004 23:01	1.0	1.0				4	
013	314_013	ICAL	pcb500_100			08-NOV-2004 23:28	1.0	1.0				5	
014	314_014	ICAL	pcb750_150			08-NOV-2004 23:56	1.0	1.0				6	
015	314_015	ICAL	pcb1k_200			09-NOV-2004 00:24	1.0	1.0				7	
018	314_018	ICV	accu_1660			09-NOV-2004 01:46	1.0	1.0			1	8	
019	314_019	X	icv			09-NOV-2004 02:14	1.0					8	
020	314_020	CCV	ar1254			09-NOV-2004 02:42	1.0	1.0			1	9	
021	314_021	X	ccv			09-NOV-2004 03:09	1.0					9	
023	314_023	BLANK	QC271164	96209	Water	09-NOV-2004 04:04	1.0	0.025			1		
024	314_024	BS	QC271165	96209	Water	09-NOV-2004 04:32	1.0	0.025			1		
025	314_025	BSD	QC271166	96209	Water	09-NOV-2004 05:00	1.0	0.025			1		
026	314_026	SAMPLE	175784-002	96209	Water	09-NOV-2004 05:27	1.0	0.02778		3	1		
027	314_027	SAMPLE	175784-001	96179	Miscel	09-NOV-2004 05:55	1.0	0.6631			1		
028	314_028	SAMPLE	175792-008	96179	Soil	09-NOV-2004 06:22	1.0	0.6757			1		
029	314_029	SAMPLE	175792-007	96179	Soil	09-NOV-2004 06:50	2.0	0.6684			1		
030	314_030	SAMPLE	175792-010	96179	Soil	09-NOV-2004 07:18	2.0	0.668			1		
031	314_031	SAMPLE	175792-009	96179	Soil	09-NOV-2004 07:45	10.0	0.6752			1		
032	314_032	SAMPLE	175792-011	96179	Soil	09-NOV-2004 08:13	10.0	0.6592			1		
034	314_034	CCV	pcb500_100			09-NOV-2004 09:08	1.0	1.0			1	10	
035	314_035	X	ccv			09-NOV-2004 09:36	1.0					10	
036	314_036	X	ccv			09-NOV-2004 10:03	1.0					9	
037	314_037	CCV	ar1254			09-NOV-2004 10:35	1.0	1.0			1	9	1:CL10BZ=228.824
039	314_039	SAMPLE	175836-001	96179	Soil	09-NOV-2004 11:36	1.0	0.664			1		
040	314_040	SAMPLE	175836-002	96179	Soil	09-NOV-2004 12:04	1.0	0.6605			1		
041	314_041	SAMPLE	175836-003	96179	Soil	09-NOV-2004 12:31	1.0	0.6623			1		
042	314_042	SAMPLE	175836-004	96179	Soil	09-NOV-2004 12:59	1.0	0.6649			1		
043	314_043	SAMPLE	175836-005	96179	Soil	09-NOV-2004 13:26	1.0	0.672			1		

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS2063 10=04WS2064 11=04W

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254452018 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 08-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
044	314_044	SAMPLE	175836-006	96179	Soil	09-NOV-2004 13:54	1.0	0.6658			1		
045	314_045	SAMPLE	175836-007	96179	Soil	09-NOV-2004 14:21	1.0	0.6702			1		
046	314_046	SAMPLE	175836-008	96179	Soil	09-NOV-2004 14:49	1.0	0.6614			1		
047	314_047	SAMPLE	175836-009	96179	Soil	09-NOV-2004 15:16	1.0	0.6605			1		
048	314_048	SAMPLE	175798-002	96209	Water	09-NOV-2004 15:44	1.0	0.02381	1	2	1		
050	314_050	CCV	pcb250_100			09-NOV-2004 16:39	1.0	1.0			1	11	
052	314_052	CCV	ar1254			09-NOV-2004 17:36	1.0	1.0	2		1	9	
053	314_053	X	ccv			09-NOV-2004 18:04	1.0					9	

30

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS2063 10=04WS2064 11=04W

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254453315 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 09-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	315_002	X	ccv			09-NOV-2004 19:15	1.0					1	
003	315_003	CCV	pcb250_100			09-NOV-2004 19:42	1.0	1.0			1	1	
004	315_004	X	ccv			09-NOV-2004 20:10	1.0					1	
005	315_005	CCV	ar1254 — ICAL			09-NOV-2004 20:37	1.0	1.0			1	2	
006	315_006	X	ccv			09-NOV-2004 21:05	1.0					2	
008	315_008	BLANK	QC271304	96247	Soil	09-NOV-2004 22:00	1.0	0.6623			1		
009	315_009	LCS	QC271305	96247	Soil	09-NOV-2004 22:28	1.0	0.6653			1		
010	315_010	SAMPLE	175857-001	96247	Soil	09-NOV-2004 22:55	1.0	0.6689			1		
011	315_011	SAMPLE	175857-002	96247	Soil	09-NOV-2004 23:23	1.0	0.6698		1	1		
012	315_012	SAMPLE	175857-003	96247	Soil	09-NOV-2004 23:50	1.0	0.6671	5		1		7:PCB101=3149.25
013	315_013	SAMPLE	175873-001	96247	Soil	10-NOV-2004 00:18	1.0	0.6631			1		
014	315_014	SAMPLE	175873-002	96247	Soil	10-NOV-2004 00:45	1.0	0.6698			1		
015	315_015	SAMPLE	175873-003	96247	Soil	10-NOV-2004 01:13	1.0	0.6609			1		
016	315_016	SAMPLE	175792-003	96142	Soil	10-NOV-2004 01:41	2.0	0.6636	1		1		1:PCB126=1139.19
017	315_017	SAMPLE	175792-006	96142	Soil	10-NOV-2004 02:08	2.0	0.6707			1		
019	315_019	X	ccv			10-NOV-2004 03:04	1.0					3	
020	315_020	CCV	pcb500_100			10-NOV-2004 03:31	1.0	1.0			1	3	
021	315_021	CCV	ar1254			10-NOV-2004 03:59	1.0	1.0			1	2	
022	315_022	X	ccv			10-NOV-2004 04:26	1.0					2	
024	315_024	SAMPLE	175873-004	96247	Soil	10-NOV-2004 05:22	1.0	0.6627			1		
025	315_025	SAMPLE	175873-005	96247	Soil	10-NOV-2004 05:49	1.0	0.6592			1		
026	315_026	SAMPLE	175873-006	96247	Soil	10-NOV-2004 06:17	1.0	0.6667			1		
027	315_027	SAMPLE	175873-007	96247	Soil	10-NOV-2004 06:44	1.0	0.6636			1		
028	315_028	SAMPLE	175873-008	96247	Soil	10-NOV-2004 07:12	1.0	0.6631			1		
029	315_029	SAMPLE	175873-009	96247	Soil	10-NOV-2004 07:40	1.0	0.6653			1		
030	315_030	SAMPLE	175873-010	96247	Soil	10-NOV-2004 08:07	1.0	0.6752			1		
031	315_031	SAMPLE	175873-011	96247	Soil	10-NOV-2004 08:35	1.0	0.6588			1		
032	315_032	SAMPLE	175873-012	96247	Soil	10-NOV-2004 09:02	1.0	0.6596			1		
033	315_033	SAMPLE	175873-013	96247	Soil	10-NOV-2004 09:30	1.0						
035	315_035	CCV	pcb250_100			10-NOV-2004 10:25	1.0	1.0			1	1	
037	315_037	CCV	ar1254			10-NOV-2004 11:20	1.0	1.0			1	2	

Stds used: 1=04WS2130 2=04WS2063 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254453315 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 09-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
041	315_041	BLANK	QC271415	96278	Soil	10-NOV-2004 13:33	1.0	0.6698			1		
042	315_042	LCS	QC271416	96278	Soil	10-NOV-2004 14:00	1.0	0.6609			1		
043	315_043	SAMPLE	175873-015	96278	Soil	10-NOV-2004 14:28	1.0	0.6645			1		
044	315_044	SAMPLE	175873-016	96278	Soil	10-NOV-2004 14:56	1.0	0.6601			1		
045	315_045	MSS	175873-014	96278	Soil	10-NOV-2004 15:23	1.0	0.6653	1		1		2:PCB126=1132.56
046	315_046	SAMPLE	175873-013	96247	Soil	10-NOV-2004 15:51	10.0	0.6752		1	1		
048	315_048	MSS	175873-014	96278	Soil	10-NOV-2004 18:27	5.0						
049	315_049	MS	QC271417	96278	Soil	10-NOV-2004 18:55	5.0	0.6707		2	1		
050	315_050	MSD	QC271418	96278	Soil	10-NOV-2004 19:22	5.0	0.6631		2	1		
052	315_052	CCV	pcb500_100			10-NOV-2004 20:17	1.0	1.0			1	3	
053	315_053	X	ccv			10-NOV-2004 20:45	1.0					3	
054	315_054	X				10-NOV-2004 21:12	1.0					2	
055	315_055	CCV	ar1254			10-NOV-2004 21:40	1.0	1.0			1	2	
057	315_057	SAMPLE	175889-005	96278	Soil	10-NOV-2004 22:35	1.0	0.6592			1		
058	315_058	SAMPLE	175889-015	96278	Soil	10-NOV-2004 23:03	1.0	0.6693			1		
059	315_059	SAMPLE	175889-025	96278	Soil	10-NOV-2004 23:30	1.0	0.6689			1		
060	315_060	SAMPLE	175824-001	96247	Soil	10-NOV-2004 23:58	1.0	0.6601			1		
061	315_061	SAMPLE	175824-002	96247	Soil	11-NOV-2004 00:26	1.0	0.6596	1		1		2:PCB126=1064.88
062	315_062	MSS	175798-001	96247	Soil	11-NOV-2004 00:53	50.0	0.6583			1		
063	315_063	SAMPLE	175872-001	96278	Miscel	11-NOV-2004 01:21	1.0	0.6689		1	1		
064	315_064	SAMPLE	175872-002	96278	Miscel	11-NOV-2004 01:48	1.0	0.6689			1		
065	315_065	SAMPLE	175872-003	96278	Miscel	11-NOV-2004 02:16	1.0	0.6579			1		
066	315_066	SAMPLE	175872-004	96278	Miscel	11-NOV-2004 02:43	1.0	0.6631			1		
068	315_068	X	ccv			11-NOV-2004 03:39	1.0					1	
069	315_069	CCV	pcb250_100			11-NOV-2004 04:06	1.0	1.0			1	1	
070	315_070	X	ccv			11-NOV-2004 04:34	1.0					2	
071	315_071	CCV	ar1254			11-NOV-2004 05:02	1.0	1.0			1	2	
073	315_073	SAMPLE	175872-005	96278	Miscel	11-NOV-2004 05:57	1.0	0.6676			1		
074	315_074	SAMPLE	175872-006	96278	Miscel	11-NOV-2004 06:24	1.0	0.6631	1		1		2:PCB101=1145.77
075	315_075	SAMPLE	175872-007	96278	Miscel	11-NOV-2004 06:52	1.0	0.6702			1		
076	315_076	SAMPLE	175872-008	96278	Miscel	11-NOV-2004 07:20	1.0	0.6618			1		

Stds used: 1=04WS2130 2=04WS2063 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254453315 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 09-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
077	315_077	SAMPLE	175872-009	96278	Miscel	11-NOV-2004 07:47	1.0	0.6676			1		
078	315_078	SAMPLE	175872-010	96278	Miscel	11-NOV-2004 08:15	1.0						
079	315_079	SAMPLE	175872-011	96278	Miscel	11-NOV-2004 08:42	1.0						
080	315_080	SAMPLE	175838-001	96247	Soil	11-NOV-2004 09:10	1.0	0.6739			1		
081	315_081	SAMPLE	175798-002	96209	Water	11-NOV-2004 09:37	1.0	0.02381		2	1		
083	315_083	X				11-NOV-2004 10:33	1.0					3	
084	315_084	CCV	pcb500_100			11-NOV-2004 11:00	1.0	1.0			1	3	
085	315_085	CCV	ar1254			11-NOV-2004 11:28	1.0	1.0			1	2	
086	315_086	CCV	ar1248			11-NOV-2004 12:08	1.0	1.0			1	4	
088	315_088	SAMPLE	175872-010	96278	Miscel	11-NOV-2004 13:23	1.0	0.6658			1		
089	315_089	SAMPLE	175872-011	96278	Miscel	11-NOV-2004 13:51	1.0	0.6702			1		
090	315_090	MSS	175798-001	96247	Soil	11-NOV-2004 14:18	25.0	0.6583			1		
091	315_091	X,BLANK	QC271719	96353	Soil	11-NOV-2004 14:46	1.0	0.6645					
092	315_092	X,LCS	QC271720	96353	Soil	11-NOV-2004 15:13	1.0	0.6725					
093	315_093	SAMPLE	175930-001	96353	Soil	11-NOV-2004 15:41	1.0	0.6743			1		
094	315_094	SAMPLE	175930-002	96353	Soil	11-NOV-2004 16:08	1.0	0.6702			1		
095	315_095	MSS	175930-003	96353	Soil	11-NOV-2004 16:36	1.0	0.6601			1		
096	315_096	CCV	pcb250_100			11-NOV-2004 17:07	1.0	1.0			1	1	
097	315_097	X	ccv			11-NOV-2004 17:42	1.0					2	
098	315_098	CCV	ar1254			11-NOV-2004 18:26	1.0	1.0			1	2	
099	315_099	CCV	ar1248			11-NOV-2004 18:53	1.0	1.0			1	4	

Stds used: 1=04WS2130 2=04WS2063 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204456284 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 11-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
008	316_008	X	hex			11-NOV-2004 20:11	1.0						
009	316_009	ICAL	pcb10_2			11-NOV-2004 20:44	1.0					1	
010	316_010	ICAL	pcb25_5			11-NOV-2004 21:18	1.0					2	
011	316_011	ICAL	pcb100_20			11-NOV-2004 21:51	1.0					3	
012	316_012	ICAL	pcb250_50			11-NOV-2004 22:24	1.0					4	
013	316_013	ICAL	pcb500_100			11-NOV-2004 22:57	1.0					5	
014	316_014	ICAL	pcb750_150			11-NOV-2004 23:30	1.0					6	
015	316_015	ICAL	pcb1k_200			12-NOV-2004 00:04	1.0					7	
017	316_017	X	hex			12-NOV-2004 01:10	1.0						
018	316_018	X	icv			12-NOV-2004 01:43	1.0					8	
019	316_019	X	icv			12-NOV-2004 02:17	1.0					8	
020	316_020	ICV	accu_1660			12-NOV-2004 15:44	1.0		1			9	

34

Stds used: 1=04WS1786 2=04WS1787 3=04WS1788 4=04WS1789 5=04WS1790 6=04WS1791 7=04WS1792 8=04WS1609 9=04WS2171

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204461493 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 15-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
002	320_002	CCV	pcb250_50			15-NOV-2004 11:33	1.0		1			1	
003	320_003	X	ccv			15-NOV-2004 12:07	1.0					2	
004	320_004	CCV	ar1254 - ICAL			15-NOV-2004 12:43	1.0		1			3	
005	320_005	X	ccv			15-NOV-2004 13:17	1.0					3	

mcb 12/29/04

35

Stds used: 1=04WS2130 2=04WS1789 3=04WS2184

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254473018 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	328_001	X	hex			23-NOV-2004 11:38	1.0						
002	328_002	CCV	pcb250_50			23-NOV-2004 12:05	1.0	1.0			1	1	
003	328_003	X	ccv			23-NOV-2004 12:45	1.0					1	
004	328_004	X	ccv			23-NOV-2004 13:21	1.0	1.0			1	2	
005	328_005	CCV	ar1254			23-NOV-2004 13:48	1.0	1.0			1	2	
007	328_007	SAMPLE	176188-002	96783	Soil	23-NOV-2004 14:55	1.0	0.6757	1		1		
008	328_008	SAMPLE	176194-001	96783	Soil	23-NOV-2004 15:23	1.0	0.6583	1		1		
009	328_009	SAMPLE	176195-001	96783	Soil	23-NOV-2004 15:50	1.0	0.6645	1		1		
011	328_011	BLANK	QC273448	96779	Water	23-NOV-2004 17:16	1.0	0.025	1		1		
012	328_012	BS	QC273449	96779	Water	23-NOV-2004 17:44	1.0	0.025			1		
013	328_013	BSD	QC273450	96779	Water	23-NOV-2004 18:12	1.0	0.025			1		
015	328_015	CCV	pcb500_100			23-NOV-2004 19:07	1.0	1.0	1		1	3	
016	328_016	X	ccv			23-NOV-2004 19:34	1.0					3	
017	328_017	CCV	ar1254			23-NOV-2004 20:02	1.0	1.0			1	2	
018	328_018	X	ccv			23-NOV-2004 20:29	1.0					2	
020	328_020	SAMPLE	176049-003	96779	Water	23-NOV-2004 21:25	1.0	0.02475	1		1		
021	328_021	SAMPLE	176100-004	96779	Water	23-NOV-2004 21:52	1.0	0.02475	1		1		
022	328_022	SAMPLE	176088-001	96779	Water	23-NOV-2004 22:20	1.0	0.025	2		1		2:PCB101=1418.94
023	328_023	SAMPLE	176088-002	96779	Water	23-NOV-2004 22:48	1.0	0.02427	1		1		
024	328_024	SAMPLE	176088-003	96779	Water	23-NOV-2004 23:15	1.0	0.02404	1		1		
025	328_025	SAMPLE	176088-005	96779	Water	23-NOV-2004 23:43	1.0	0.02427	1		1		
026	328_026	SAMPLE	176088-008	96779	Water	24-NOV-2004 00:10	1.0	0.02381	1		1		
027	328_027	SAMPLE	176088-010	96779	Water	24-NOV-2004 00:38	1.0	0.02358	1		1		
028	328_028	SAMPLE	176088-013	96779	Water	24-NOV-2004 01:06	1.0	0.02358	1		1		
030	328_030	CCV	pcb250_50			24-NOV-2004 02:01	1.0	1.0			1	1	
031	328_031	X	ccv			24-NOV-2004 02:28	1.0					1	
032	328_032	CCV	ar1254			24-NOV-2004 02:56	1.0	1.0			1	2	
033	328_033	X	ccv			24-NOV-2004 03:23	1.0					2	
035	328_035	BLANK	QC273646	96828	Soil	24-NOV-2004 14:05	1.0	0.6614			1		
036	328_036	LCS	QC273647	96828	Soil	24-NOV-2004 14:33	1.0	0.6671	1		1		
037	328_037	MSS	176180-011	96828	Soil	24-NOV-2004 15:00	1.0	0.6711			1		

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 254473018 Instrument: GC22 Gas Chromatograph #22 ECD Begun: 23-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
038	328_038	MS	QC273648	96828	Soil	24-NOV-2004 15:28	1.0	0.6689	1		1		
039	328_039	MSD	QC273649	96828	Soil	24-NOV-2004 15:55	1.0	0.664	1		1		
041	328_041	CCV	pcb500_100			24-NOV-2004 16:51	1.0	1.0			1	3	
042	328_042	CCV	ar1254			24-NOV-2004 17:41	1.0	1.0	1		1	2	
043	328_043	X	ccv			24-NOV-2004 18:08	1.0					2	
045	328_045	SAMPLE	176180-010	96828	Soil	24-NOV-2004 19:04	1.0	0.6693			1		
046	328_046	SAMPLE	176180-012	96828	Soil	24-NOV-2004 19:31	1.0	0.6566			1		
047	328_047	SAMPLE	176248-001	96828	Soil	24-NOV-2004 19:59	1.0	0.6766			1		
048	328_048	SAMPLE	176248-002	96828	Soil	24-NOV-2004 20:26	1.0	0.672		1	1		
049	328_049	SAMPLE	176248-004	96828	Soil	24-NOV-2004 20:54	1.0	0.6596			1		
050	328_050	SAMPLE	176248-005	96828	Soil	24-NOV-2004 21:22	1.0	0.6662		1	1		
051	328_051	SAMPLE	176168-011	96828	Soil	24-NOV-2004 21:49	1.0	0.6566	1		1		
052	328_052	SAMPLE	176168-012	96828	Soil	24-NOV-2004 22:17	1.0	0.6707			1		
053	328_053	SAMPLE	176168-015	96828	Soil	24-NOV-2004 22:44	1.0	0.6623			1		
054	328_054	SAMPLE	176168-016	96828	Soil	24-NOV-2004 23:12	1.0	0.6676			1		
056	328_056	CCV	pcb250_50			25-NOV-2004 00:07	1.0	1.0	1		1	1	
057	328_057	X	ccv			25-NOV-2004 00:35	1.0					1	
058	328_058	CCV	ar1254			25-NOV-2004 01:02	1.0	1.0	1		1	2	
059	328_059	X	ccv			25-NOV-2004 01:30	1.0					2	
061	328_061	SAMPLE	176241-001	96828	Soil	25-NOV-2004 02:25	1.0	0.6662	1	1	1		
062	328_062	SAMPLE	176185-001	96828	Soil	25-NOV-2004 02:53	1.0	0.6711	2		1		
063	328_063	SAMPLE	176211-001	96828	Soil	25-NOV-2004 03:20	1.0	0.6671			1		
064	328_064	SAMPLE	176164-001	96828	Soil	25-NOV-2004 03:48	1.0	0.6609		1	1		
065	328_065	SAMPLE	176164-003	96828	Soil	25-NOV-2004 04:16	1.0	0.6676			1		
067	328_067	CCV	pcb500_100			25-NOV-2004 05:11	1.0	1.0	1		1	3	
068	328_068	X	ccv			25-NOV-2004 05:38	1.0					3	
069	328_069	X	ar1254			25-NOV-2004 06:06	1.0					2	
070	328_070	CCV	ccv			25-NOV-2004 06:34	1.0	1.0	1		1	2	

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204481766 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 29-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
003	334_003	X	ccv			29-NOV-2004 13:26	1.0					1	
004	334_004	CCV	pcb250_50			29-NOV-2004 13:59	1.0	1.0			1	1	
005	334_005	CCV	ar1254			29-NOV-2004 14:49	1.0	1.0			1	2	
007	334_007	BLANK	QC273948	96902	Water	29-NOV-2004 16:49	1.0	0.025			1		
008	334_008	BS	QC273949	96902	Water	29-NOV-2004 17:22	1.0	0.025			1		
009	334_009	BSD	QC273950	96902	Water	29-NOV-2004 17:56	1.0	0.025			1		
010	334_010	BSD	QC273609	96820	Water	29-NOV-2004 18:30	2.0	0.01			1		
011	334_011	SAMPLE	176180-013	96902	Water	29-NOV-2004 19:04	1.0	0.02358			1		
012	334_012	SAMPLE	176181-003	96902	Water	29-NOV-2004 19:37	1.0	0.02475			1		
013	334_013	SAMPLE	176238-003	96902	Water	29-NOV-2004 20:10	1.0	0.02475			1		
014	334_014	MSS A	176248-003	96948	Soil	29-NOV-2004 22:52	1.0	0.6684			1		
015	334_015	MSS ↓	176248-005	96948	Soil	29-NOV-2004 23:25	1.0	0.6671			1		
016	334_016	SAMPLE	176167-001	96950	Soil	29-NOV-2004 23:59	1.0	0.83			1		
018	334_018	CCV	pcb500_100			30-NOV-2004 01:05	1.0	1.0			1	3	
019	334_019	X	ccv			30-NOV-2004 01:38	1.0					3	
020	334_020	X	ccv			30-NOV-2004 02:11	1.0					2	
021	334_021	CCV	ar1254			30-NOV-2004 02:44	1.0	1.0			1	2	
023	334_023	BLANK A	QC274146	96948	Soil	30-NOV-2004 03:51	1.0	0.6566			1		
024	334_024	BLANK	QC274156	96950	Soil	30-NOV-2004 04:24	1.0	0.8306			1		
025	334_025	LCS A	QC274147	96948	Soil	30-NOV-2004 04:57	1.0	0.6761			1		
026	334_026	LCS	QC274157	96950	Soil	30-NOV-2004 05:30	1.0	0.8333			1		
027	334_027	MS	QC274148	96948	Soil	30-NOV-2004 06:03	1.0	0.6725			1		
028	334_028	MSD	QC274149	96948	Soil	30-NOV-2004 06:37	1.0	0.6761		3	1		
029	334_029	MS	QC274150	96948	Soil	30-NOV-2004 07:10	1.0	0.657		3	1		
030	334_030	MSD	QC274151	96948	Soil	30-NOV-2004 07:43	1.0	0.6636		3	1		
031	334_031	MS	QC274158	96950	Soil	30-NOV-2004 08:16	1.0	0.8306			1		
032	334_032	MSD	QC274159	96950	Soil	30-NOV-2004 08:49	1.0	0.8295			1		
034	334_034	CCV	pcb250_50			30-NOV-2004 09:56	1.0	1.0			1	1	
035	334_035	X	ccv			30-NOV-2004 10:29	1.0					1	
036	334_036	CCV	ar1254			30-NOV-2004 11:02	1.0	1.0			1	2	
037	334_037	X	ccv			30-NOV-2004 11:35	1.0					2	

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064

SEQUENCE SUMMARY FOR 176248 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204481766 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 29-NOV-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	334_039	MSS	176167-002	96950	Soil	30-NOV-2004 12:42	1.0	0.824			1		
040	334_040	SAMPLE	176167-003	96950	Soil	30-NOV-2004 13:15	1.0	0.8259			1		
041	334_041	SAMPLE	176167-004	96950	Soil	30-NOV-2004 13:48	1.0	0.83			1		
042	334_042	SAMPLE	176167-005	96950	Soil	30-NOV-2004 14:22	1.0	0.8273			1		
043	334_043	SAMPLE	176167-006	96950	Soil	30-NOV-2004 14:55	1.0	0.8202			1		
044	334_044	SAMPLE	176167-007	96950	Soil	30-NOV-2004 15:28	1.0	0.8325			1		
045	334_045	SAMPLE	176167-008	96950	Soil	30-NOV-2004 16:02	1.0	0.8289			1		
047	334_047	CCV	pcb500_100			30-NOV-2004 17:08	1.0	1.0			1	3	
048	334_048	X	ccv			30-NOV-2004 17:41	1.0					3	
049	334_049	CCV	ar1254			30-NOV-2004 18:15	1.0	1.0			1	2	
052	334_052	SAMPLE	176268-024	96948	Soil	30-NOV-2004 19:55	1.0	0.6693		4	1		
053	334_053	SAMPLE	176268-034	96948	Soil	30-NOV-2004 20:28	1.0	0.6752			1		
054	334_054	SAMPLE	176268-035	96948	Soil	30-NOV-2004 21:01	1.0	0.6614	1		1		2:PCB101=1938.28
056	334_056	MSD	QC274149	96948	Soil	30-NOV-2004 22:08	1.0	0.6761		4	1		
058	334_058	MS	QC274150	96948	Soil	30-NOV-2004 23:14	1.0	0.657	1	3	1		1:XYL246=203.801
060	334_060	MSD	QC274151	96948	Soil	01-DEC-2004 11:36	1.0	0.6636		6	1		
062	334_062	CCV	pcb250_50			01-DEC-2004 12:42	1.0	1.0			1	1	
063	334_063	X	ccv			01-DEC-2004 13:16	1.0					1	
064	334_064	X	ccv			01-DEC-2004 13:49	1.0					2	
065	334_065	CCV	ar1254			01-DEC-2004 14:22	1.0	1.0			1	2	

Stds used: 1=04WS2130 2=04WS2184 3=04WS2064

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176248-001	Aroclor-1016	GC22	B	11/24/04 19:59
176248-001	Aroclor-1221	GC22	B	11/24/04 19:59
176248-001	Aroclor-1232	GC22	B	11/24/04 19:59
176248-001	Aroclor-1242	GC22	B	11/24/04 19:59
176248-001	Aroclor-1248	GC22	B	11/24/04 19:59
176248-001	Aroclor-1254	GC22	B	11/24/04 19:59
176248-001	Aroclor-1260	GC22	B	11/24/04 19:59
176248-001	TCMX	GC22	B	11/24/04 19:59
176248-001	Decachlorobiphenyl	GC22	B	11/24/04 19:59
176248-002	Aroclor-1016	GC22	B	11/24/04 20:26
176248-002	Aroclor-1221	GC22	B	11/24/04 20:26
176248-002	Aroclor-1232	GC22	B	11/24/04 20:26
176248-002	Aroclor-1242	GC22	B	11/24/04 20:26
176248-002	Aroclor-1248	GC22	B	11/24/04 20:26
176248-002	Aroclor-1254	GC22	B	11/24/04 20:26
176248-002	Aroclor-1260	GC22	B	11/24/04 20:26
176248-002	TCMX	GC22	B	11/24/04 20:26
176248-002	Decachlorobiphenyl	GC22	B	11/24/04 20:26
176248-003	Aroclor-1016	GC06	A	11/29/04 22:52
176248-003	Aroclor-1221	GC06	A	11/29/04 22:52
176248-003	Aroclor-1232	GC06	A	11/29/04 22:52
176248-003	Aroclor-1242	GC06	A	11/29/04 22:52
176248-003	Aroclor-1248	GC06	A	11/29/04 22:52
176248-003	Aroclor-1254	GC06	A	11/29/04 22:52
176248-003	Aroclor-1260	GC06	A	11/29/04 22:52
176248-003	TCMX	GC06	A	11/29/04 22:52
176248-003	Decachlorobiphenyl	GC06	A	11/29/04 22:52
176248-004	Aroclor-1016	GC22	B	11/24/04 20:54
176248-004	Aroclor-1221	GC22	B	11/24/04 20:54
176248-004	Aroclor-1232	GC22	B	11/24/04 20:54
176248-004	Aroclor-1242	GC22	B	11/24/04 20:54
176248-004	Aroclor-1248	GC22	B	11/24/04 20:54
176248-004	Aroclor-1254	GC22	B	11/24/04 20:54
176248-004	Aroclor-1260	GC22	B	11/24/04 20:54
176248-004	TCMX	GC22	B	11/24/04 20:54
176248-004	Decachlorobiphenyl	GC22	B	11/24/04 20:54
176248-005	Aroclor-1016	GC06	A	11/29/04 23:25
176248-005	Aroclor-1221	GC06	A	11/29/04 23:25
176248-005	Aroclor-1232	GC06	A	11/29/04 23:25
176248-005	Aroclor-1242	GC06	A	11/29/04 23:25
176248-005	Aroclor-1248	GC06	A	11/29/04 23:25
176248-005	Aroclor-1254	GC06	A	11/29/04 23:25
176248-005	Aroclor-1260	GC06	A	11/29/04 23:25
176248-005	TCMX	GC06	A	11/29/04 23:25
176248-005	Decachlorobiphenyl	GC06	A	11/29/04 23:25

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC273646	Aroclor-1016	GC22	B	11/24/04 14:05
QC273646	Aroclor-1221	GC22	B	11/24/04 14:05
QC273646	Aroclor-1232	GC22	B	11/24/04 14:05
QC273646	Aroclor-1242	GC22	B	11/24/04 14:05
QC273646	Aroclor-1248	GC22	B	11/24/04 14:05
QC273646	Aroclor-1254	GC22	B	11/24/04 14:05
QC273646	Aroclor-1260	GC22	B	11/24/04 14:05
QC273646	TCMX	GC22	B	11/24/04 14:05
QC273646	Decachlorobiphenyl	GC22	B	11/24/04 14:05
QC274146	Aroclor-1016	GC06	A	11/30/04 03:51
QC274146	Aroclor-1221	GC06	A	11/30/04 03:51
QC274146	Aroclor-1232	GC06	A	11/30/04 03:51
QC274146	Aroclor-1242	GC06	A	11/30/04 03:51
QC274146	Aroclor-1248	GC06	A	11/30/04 03:51
QC274146	Aroclor-1254	GC06	A	11/30/04 03:51
QC274146	Aroclor-1260	GC06	A	11/30/04 03:51
QC274146	TCMX	GC06	A	11/30/04 03:51
QC274146	Decachlorobiphenyl	GC06	A	11/30/04 03:51
QC273647	Aroclor-1254	GC22	B	11/24/04 14:33
QC273647	TCMX	GC22	B	11/24/04 14:33
QC273647	Decachlorobiphenyl	GC22	B	11/24/04 14:33
QC273648	Aroclor-1254	GC22	B	11/24/04 15:28
QC273648	TCMX	GC22	B	11/24/04 15:28
QC273648	Decachlorobiphenyl	GC22	B	11/24/04 15:28
QC273649	Aroclor-1254	GC22	B	11/24/04 15:55
QC273649	TCMX	GC22	B	11/24/04 15:55
QC273649	Decachlorobiphenyl	GC22	B	11/24/04 15:55
QC274147	Aroclor-1254	GC06	A	11/30/04 04:57
QC274147	TCMX	GC06	A	11/30/04 04:57
QC274147	Decachlorobiphenyl	GC06	A	11/30/04 04:57
QC274148	Aroclor-1254	GC06	A	11/30/04 06:03
QC274148	TCMX	GC06	A	11/30/04 06:03
QC274148	Decachlorobiphenyl	GC06	A	11/30/04 06:03
QC274149	Aroclor-1254	GC06	A	11/30/04 22:08
QC274149	TCMX	GC06	A	11/30/04 22:08
QC274149	Decachlorobiphenyl	GC06	A	11/30/04 22:08
QC274150	Aroclor-1254	GC06	A	11/30/04 07:10
QC274150	TCMX	GC06	A	11/30/04 07:10
QC274150	Decachlorobiphenyl	GC06	A	11/30/04 07:10

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC274151	Aroclor-1254	GC06	A	11/30/04 07:43
QC274151	TCMX	GC06	A	11/30/04 07:43
QC274151	Decachlorobiphenyl	GC06	A	11/30/04 07:43

Curtis & Tompkins Laboratories Sample Preparation Summary 29-NOV-2004 14:07

Batch Number : 96828
Date Extracted: 23-NOV-2004
Extracted by : Amy Silverberg
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225C
Spike #2 ID : 04WS2065A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176164-001		URS Corporation	Soil	15.13	g	10	0.660939	1		.025	0		PCB	3665A	
176164-003		URS Corporation	Soil	14.98	g	10	0.667557	1		.025	0		PCB	3665A	
176168-011		Espana Geotechnical	Soil	15.23	g	10	0.656599	1		.025	0		PCB	3665A	
176168-012		Espana Geotechnical	Soil	14.91	g	10	0.670691	1		.025	0		PCB	3665A	
176168-015		Espana Geotechnical	Soil	15.1	g	10	0.662252	1		.025	0		PCB	3665A	
176168-016		Espana Geotechnical	Soil	14.98	g	10	0.667557	1		.025	0		PCB	3665A	
176180-010		URS Corporation	Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	mss
176180-011		URS Corporation	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	
176180-012		URS Corporation	Soil	15.23	g	10	0.656599	1		.025	0		PCB	3665A	
176185-001		LFR Levine Fricke	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	
176211-001		CH2M Hill Constructors Inc.	Soil	14.99	g	10	0.667111	1		.025	0		PCB	3665A	
176241-001		Burns & McDonnell	Soil	15.01	g	10	0.666223	1		.025	0		PCB	3665A	
176248-001		Treadwell & Rollo	Soil	14.78	g	10	0.676590	1		.025	0		PCB	3665A	
176248-002		Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.025	0		PCB	3665A	
176248-004		Treadwell & Rollo	Soil	15.16	g	10	0.659631	1		.025	0		PCB	3665A	
176248-005	— needed to be	Treadwell & Rollo	Soil	15.01	g	10	0.666223	1		.025	0		PCB	3665A	
QC273646	MB	mss ~RX - mcb 11/30/04	Soil	15.12	g	10	0.661376	1		.025	0		PCB	3665A	
QC273647	LCS		Soil	14.99	g	10	0.667111	1		.025	.025		PCB	3665A	
QC273648	MS	of 176180-011	Soil	14.95	g	10	0.668896	1		.025	.025		PCB	3665A	
QC273649	MSD	of 176180-011	Soil	15.06	g	10	0.664011	1		.05	.05		PCB	3665A	

Prep Chemist: JRD for AMS 11/29/04 Reviewed By: [signature] Date: 11/24/04

Relinquished By: [signature] Received By: [signature] Date: 11/29/04

Curtis & Tompkins Laboratories **Sample Preparation Summary** **24-NOV-2004 11:14**

Batch Number : 96828
Date Extracted: 23-NOV-2004
Extracted by : Amy Silverberg
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225C
Spike #2 ID : 04WS2065A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176164-001			URS Corporation	Soil	15.13	g	10	0.660939	1		.025	0		PCB	3665A	
176164-003			URS Corporation	Soil	14.98	g	10	0.667557	1		.025	0		PCB	3665A	
176168-011			Espana Geotechnical	Soil	15.23	g	10	0.656599	1		.025	0		PCB	3665A	
176168-012			Espana Geotechnical	Soil	14.91	g	10	0.670691	1		.025	0		PCB	3665A	
176168-015			Espana Geotechnical	Soil	15.1	g	10	0.662252	1		.025	0		PCB	3665A	
176168-016			Espana Geotechnical	Soil	14.98	g	10	0.667557	1		.025	0		PCB	3665A	
176180-010			URS Corporation	Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	
176180-011			URS Corporation	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	mss
176180-012			URS Corporation	Soil	15.23	g	10	0.656599	1		.025	0		PCB	3665A	
176185-001			LFR Levine Fricke	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	
176211-001			CH2M Hill Constructors Inc.	Soil	14.99	g	10	0.667111	1		.025	0		PCB	3665A	
176241-001			Burns & McDonnell	Soil	15.01	g	10	0.666223	1		.025	0		PCB	3665A	
176248-001			Treadwell & Rollo	Soil	14.78	g	10	0.676590	1		.025	0		PCB	3665A	
176248-002			Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.025	0		PCB	3665A	
176248-004			Treadwell & Rollo	Soil	15.16	g	10	0.659631	1		.025	0		PCB	3665A	
176248-005			Treadwell & Rollo	Soil	15.01	g	10	0.666223	1		.025	0		PCB	3665A	
QC273646	MB			Soil	15.12	g	10	0.661376	1		.025	0		PCB	3665A	
QC273647	LCS			Soil	14.99	g	10	0.667111	1		.025	.025		PCB	3665A	
QC273648	MS	of 176180-011		Soil	14.95	g	10	0.668896	1		.025	.025		PCB	3665A	
QC273649	MSD	of 176180-011		Soil	15.06	g	10	0.664011	1		.025	.025		PCB	3665A	

Prep Chemist: ASilverberg Reviewed By: [signature] Date: 11/24/04

Relinquished By: [signature] Received By: [signature] Date: 11/24/04

Curtis & Tompkins, Ltd.

PCB 8082 SOIL PREP LOG

BK 2014

Page 35

LIMS Batch No: 96828
LIMS Analysis PCB
Extracted by: AMS
Date Extracted: 11/23/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☑ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

	Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
	176164-001	15.13	10.0	
	↓ -003	14.98	↓	
	176168-011	15.23		
	-012	14.91		
5	-015	15.10		
	↓ -016	14.98		
	176180-010	14.94		
	-011	14.90		MSS
	↓ -012	15.23		
10	176185-001	14.90		+
	176211-001	14.99		
	MB QC273646	15.12		
	LCS 47	14.99		
	MS 48	14.95		
15	MSD ↓ 49	15.06		possible 2x spike + surr.
	~~176185-001~~	~~15.12~~		~~+~~ BB 11/2 Sample N Needed
	176241-001	15.01		+
	176248-001	14.78		
Sample Not Included	-002	14.88	↓	
20	~~-003~~	~~15.16~~ BB W/: 464		
	-004	15.16	10.0	
	↓ -005	15.01	↓	+
			BB 11/24/04	

+ = Collection Vial full on ASE

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM4402842 1	AMS 11/23/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 040112	↓
.025 mL of surrogate solution was added to all samples	04WS2225C	
.025 mL of spike solution 1254 was added to all spikes	04WS2065A	
1:1 CH_2Cl_2 (lot# 44233):Acetone(lot# 44179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D28	
PFE (ASE) / soxhlets on at:	N/A	
PFE (ASE) / soxhlets off at:	↓	
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	↓	↓
Concentrated to volumes noted above after exchange to Hexane Lot#	SC4905	BB 11/24/04
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	✓ H30036	↓
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	

11/23/04
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/24/04
Reviewed by / Date

BK2032

Project Soil Aliquot

Continued from Page

Sample Id	Weight (g)	Analysis	Comments
176188-010A	30.06	8100	MS
MS	29.89		176188-010A
MSD	30.22		↓
LCS	30.25		EM440284 21
MB	30.27		↓
175918-001A	30.13	8310	MS
-005	30.27		
-013	30.14		
-020	30.18		
-028	30.02		
-031	30.33		
-035	30.12		
-045	30.08		
-048	30.22		
-052	30.10		
-066	30.06		
MS	30.17		175918-001A
MSD	30.32		↓
LCS	30.08		EM440284 21
MB	30.45		↓
176205-001B	49.85	TEH	
-002C	50.25		
-003B	50.44		
-004C	49.93		
-005A	50.49		
-006C	50.26		
176199-001A	50.25	TEHM	
-002C	49.93	↓	
176168-001A	15.23	PCB	
-012	14.91		
-015	15.10		
-016	14.98		

Continued on Page

Read and Understood By

Michelle Cist 11/24/04

Signed Date

Signed Date

Project Soil Aliquot BR2032

Continued from Page

Sample I.D.	Weight (g)	Analysis	Comments
176211-001A	14.99	PCB	
176180-010 A	14.94		
-011	14.90		MSS
-012	15.23		
176185-001 A	14.90		
MB	15.12		EM44028421
LCS	14.99		
MS	14.95		176180-011 A
MSD	15.06		
176185-001 A	14.89	8081	
MB	14.92		EM44028421
LCS	14.93		
176164-001A	15.13	PCB	
-003	14.98		
176212-001A	50.32	TEHM	
176211-001A	30.05	8270	MSS
-001	50.09	TEHM	MSD
MS	50.01		176211-001A
MSD	49.82		
MS	30.17	8270	176211-001A
MSD	30.41		
LCS	30.39		EM44028421
MB	30.31		
LCS	49.85	TEHM	
MB	49.88		

Continued on Page

Michelle Curtis 11/23/04 47

Signed Date Read and Understood By Signed Date

Project Soil Aliquot BK2032

Continued from Page

SAMPLE I.D	WEIGHT (g)	ANALYSIS	COMMENTS
176248-001A	15.05	8081	MSS
-002	15.18		
-004	15.20		
-005	15.00		
176248-001A	14.78	PCB	
-002	14.88		
-004	15.16		
-005	15.01		
MS	14.80	8081	176248-001A
MSD	14.95		
176247-001A	15.01	PCB	
176185-001A	15.17	PCB	
-001A	15.18	8081	
176185-001A	29.82	8270	
-001A	50.26	TEH	
176247-001A	49.93	TEH	

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins Laboratories Sample Preparation Summary 30-NOV-2004 14:39

Batch Number : 96948
Date Extracted: 29-NOV-2004
Extracted by : Coral E. Weese
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225B
Spike #2 ID : 04WS2065A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176248-003			Treadwell & Rollo	Soil	14.96	g	10	0.668449	1		.025	0		PCB	3665A	mss
176248-005			Treadwell & Rollo	Soil	14.99	g	10	0.667111	1		.025	0		PCB	3665A	mss
176268-024			Espana Geotechnical	Soil	14.94	g	10	0.669344	1		.025	0		PCB	3665A	
176268-034			Espana Geotechnical	Soil	14.81	g	10	0.675219	1		.025	0		PCB	3665A	
176268-035			Espana Geotechnical	Soil	15.12	g	10	0.661376	1		.025	0		PCB	3665A	
QC274146	MB			Soil	15.23	g	10	0.656599	1		.025	0		PCB	3665A	
QC274147	LCS			Soil	14.79	g	10	0.676133	1		.025	.025		PCB	3665A	
QC274148	MS	of 176248-003		Soil	14.87	g	10	0.672495	1		.025	.025		PCB	3665A	
QC274149	MSD	of 176248-003		Soil	14.79	g	10	0.676133	1		.025	.025		PCB	3665A	
QC274150	MS	of 176248-005		Soil	15.22	g	10	0.657030	1		.025	.025		PCB	3665A	
QC274151	MSD	of 176248-005		Soil	15.07	g	10	0.663570	1		.025	.025		PCB	3665A	

Prep Chemist: Coral Weese Reviewed By: [signature] Date: 11/30/04

Relinquished By: Coral Weese Received By: [signature] Date: 11/30/04

Curtis & Tompkins, Ltd.

PCB 8082 SOIL PREP LOG

LIMS Batch No: 96948
LIMS Analysis: PCB
Extracted by: Cora
Date Extracted: 11/29/04

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☒ EPA 3545 PFE (ASE Method# 10)
☐ Other

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
176248-003	14.96	10.0	MSS
↓ 004	14.99	↓	MSS
176248-013	14.95		not extracted - out of solv
6 -023	14.82		↓
-024	14.94	10.0	
-025	15.02		MS extracted 11/30/04
-034	14.81	10.0	
-035	15.17	10.0	
MB022446	15.23	10.0	
LCS 47	14.79		
MS 48	14.87		176248-003
MSD 49	14.79		↓
MS 50	15.22		176248-003
MSD ↓ 51	15.07	↓	↓

Cora 11/29/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	04W0038121	CW 11/29/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	D1W0010112	
0.005 mL of surrogate solution was added to all samples	04W0022258	
0.025 mL of spike solution 1254 was added to all spikes	04W0020659	
1:1 CH_2Cl_2 (lot# 04W0038121) Acetone (lot# 04W0019) was added to all	↓	
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted		
ASE Cellulose Filters used:	Whatman D28	
PFE (ASE) / soxhlets on at:	NA	
PFE (ASE) / soxhlets off at:	↓	
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4		
Concentrated to volumes noted above after exchange to Hexane Lot#	04W0	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	BJA3082	
Centrifuged for 1 min; 10mL transferred to labelled vial	↓	↓

Cora Olivera 11/29/04
Extraction Chemist / Date

Continued from page
Continued on page

11/30/04
Reviewed by / Date

Continued from Page

Sample ID	Weight (g)	Analysis	Comments
176268-013A	14.95	PCB	
-023	14.82		
-024	14.94		
-025	15.03		MSS
-034	14.81		
-035	15.12		
176268-005A	29.50	8100	MSS
-006	30.14		
-009	29.93		
-010	30.34		
-011	30.13		
-012	30.15		
-013	30.23		
-015	30.04		
-016	30.39		
-017	30.02		
-018	30.24		
-019	30.21		
-020	30.04		
-021	30.41		
-022	30.33		
-023	30.40		
-024	30.35		
-025	29.97		
-026	30.04		
-027	29.81		
-034	30.06		
-035	29.87		
MS	30.36	8100	176268-005A
MSD	30.10		
LCS	20.37		GM44028441
MB	30.04		
MS	15.03	PCB	176268-025A
MSD	14.92		
MB	15.23		GM44028481
LCS	14.29		

MC 11/29 ~~GM~~

Continued on Page

Read and Understood By

Michelle Curtis — Signed

11/29/04 — Date

Signed

Date

Continued from Page

Sample ID	Weight (g)	Analysis	Comments
176248-005A	14.99	PCB	MSS
MS	15.22	↓	176248-005A
MSD	15.07	TEHM	↓
176248-005A			
MS			
MSD			
LCS			EM44028421
MB		↓	↓
176248-003A	14.96	PCB	MSS
MSD	14.79	↓	176248-003A
MS	14.82		↓

Continued on Page

Michelle Curtis
Signed

11/29/04
Date

Read and Understood By

Signed

Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14B A	GC14B B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0					04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	11/02/04 4.4	11/02/04 3.7			08/02/03 2.3	08/02/03 2.0	10/30/04 4.0	10/30/04 2.9
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9					04/07/04 2.2	04/07/04 2.5

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22
Seqnum : 254473018047
Filename : 328_047
IDF : 1.0

Samplenum: 176248-001
Matrix : Soil
Batchnum : 96828

Cident : BB3EX154[0.5]
Acctnum : TREADWELL (SES)
Injected : 24-NOV-2004 19:59
Units : ug/Kg

Prep: 14.78 g --> 10.0 ml = 0.6766 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=328_035	Flags
Aroclor-1016	B	254452018001	ND					9.7		
Aroclor-1016 Peak # 1.....B		254452018001		7.74	ND					
Aroclor-1016 Peak # 2	B	254452018001		ND	4.13					
Aroclor-1016 Peak # 3.....B		254452018001		1.24	ND					
Aroclor-1016 Peak # 4.....B		254452018001		1.52	1.15	28%				
Aroclor-1016 Peak # 5.....B		254452018001		6.84	1.28	137%				
Aroclor-1221	B		ND					19		
Aroclor-1232	B		ND					9.7		
Aroclor-1242	B		ND					9.7		
Aroclor-1248	B		ND					9.7		
Aroclor-1254	B	254453315001	ND					9.7		?v
Aroclor-1254 Peak # 1.....B		254453315001		3.39	4.85	35%				
Aroclor-1254 Peak # 2.....B		254453315001		7.82	0.54	174%				
Aroclor-1254 Peak # 3.....B		254453315001		14.23	11.18	24%				
Aroclor-1254 Peak # 4.....B		254453315001		1.93	1.09	56%				
Aroclor-1254 Peak # 5.....B		254453315001		11.39	1.27	160%				
Aroclor-1260	B	254452018001	ND					9.7		
Aroclor-1260 Peak # 1.....B		254452018001		4.12	1.98	70%				
Aroclor-1260 Peak # 2.....B		254452018001		5.83	2.37	84%				
Aroclor-1260 Peak # 3.....B		254452018001		1.22	2.20	57%				
Aroclor-1260 Peak # 4.....B		254452018001		5.73	4.57	23%				
Aroclor-1260 Peak # 5.....B		254452018001		3.81	1.77	73%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	254452018001	33.83	36.84	109	65-135	
Decachlorobiphenyl	B	254452018001	33.83	43.93	130	65-135	>c+

=high bias >=closing ?=missing c=CCV v=ICV out

Analyst: _____ Date: 11/29/04 Reviewer: _____ Date: 11/29/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-001,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 47

Date : 11/29/04 12:26:01 PM
Data Acquisition Time : 11/24/04 7:59:20 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a047p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.037	157672.50	51.6172	0.677	1	34.92	6.98
Aroclor-1016	11.976	541.50	1.7962	0.677	1	1.22	0.24
Aroclor-1254	15.161	2296.00	0.0023	0.677	1	0.00	0.00
Aroclor-1260	16.585	1984.00	3.5611	0.677	1	2.41	0.48
Decachlorobiphenyl	21.799	84016.50	65.6184	0.677	1	44.40	8.88
		246510.50	122.5952			82.95	16.59

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.125	0.00	0.0000	0.677	1	0.00	0.00
PCB1016#2	11.976	364.00	6.1100	0.677	1	4.13	0.83
PCB1016#3	12.399	0.00	0.0000	0.677	1	0.00	0.00
PCB1016#4	12.797	106.00	1.6991	0.677	1	1.15	0.23
PCB1016#5	13.112	71.50	1.8955	0.677	1	1.28	0.26
		541.50	9.7046			6.57	1.31

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.763	521.00	7.1677	0.677	1	4.85	0.97
PCB1254#2	14.443	100.50	0.7954	0.677	1	0.54	0.11
PCB1254#3	15.161	1298.50	16.5206	0.677	1	11.18	2.24
PCB1254#4	15.446	209.00	1.6144	0.677	1	1.09	0.22
PCB1254#5	16.139	167.00	1.8698	0.677	1	1.27	0.25
		2296.00	27.9679			18.92	3.78

11/29/04

Group Report For : Aroclor-1260

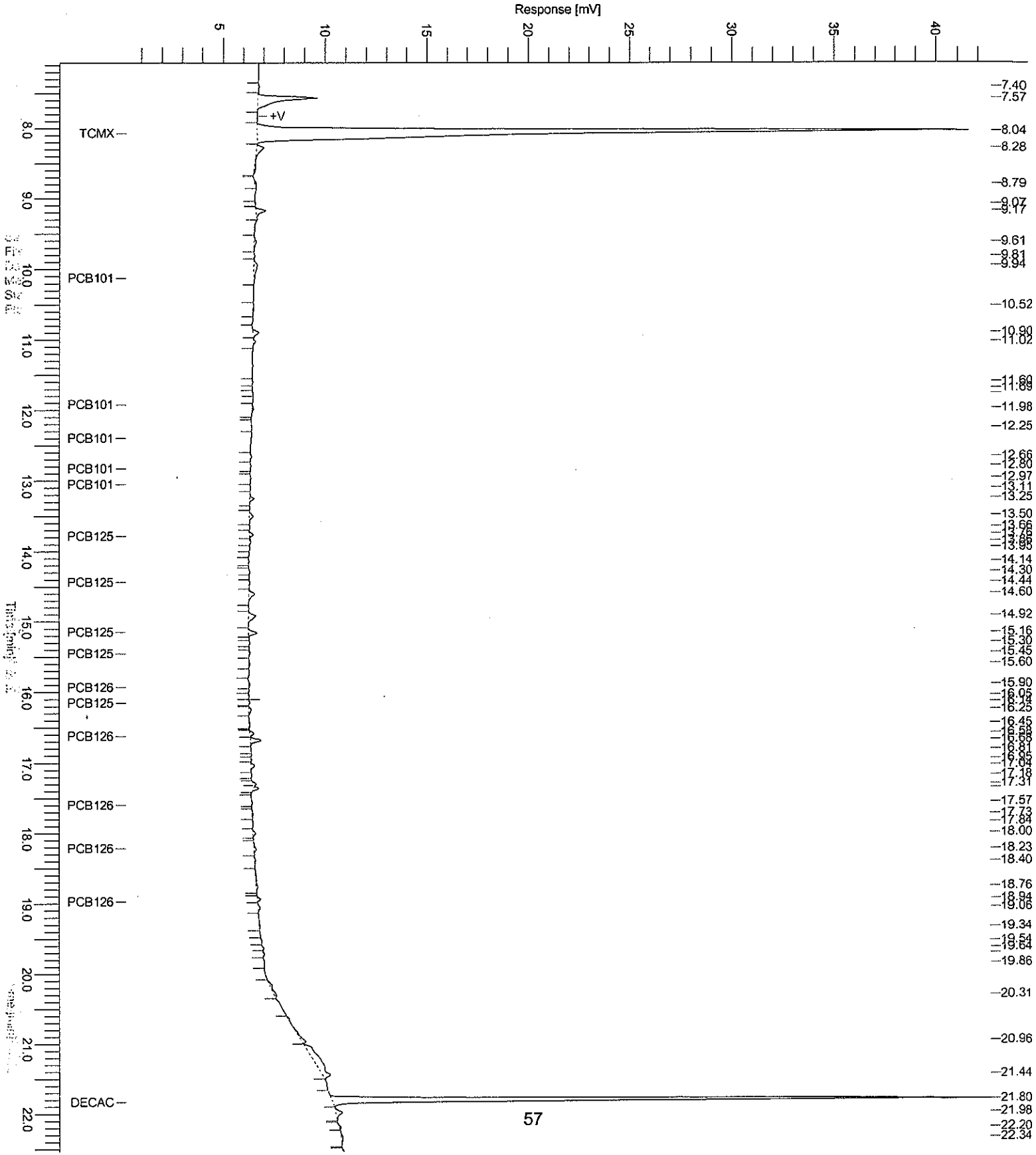
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.895	292.00	2.9242	0.677	1	1.98	0.40
PCB1260#2	16.585	525.50	3.5085	0.677	1	2.37	0.47
PCB1260#3	17.565	225.50	3.2443	0.677	1	2.20	0.44
PCB1260#4	18.229	521.00	6.7482	0.677	1	4.57	0.91
PCB1260#5	18.936	420.00	2.6123	0.677	1	1.77	0.35
		1984.00	19.0375			12.88	2.58

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\328a047p.TX0

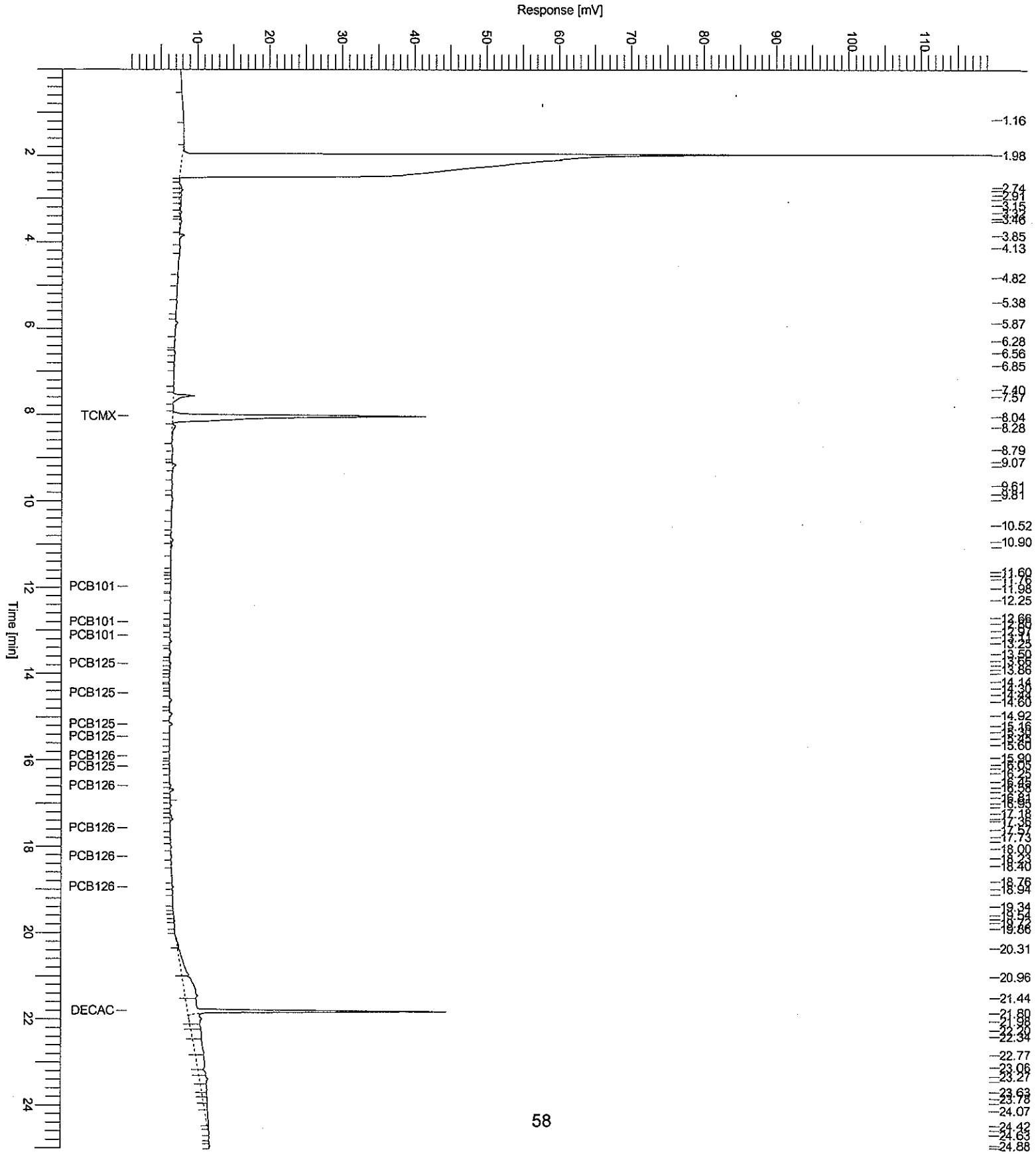
GC22 Rtx-CLPesticides

Sample Name : 176248-001,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHa\328a047.raw
Date : 11/29/04 12:26:05 PM
Method : Time of Injection: 11/24/04 7:59:20 PM
Start Time : 7.07 min End Time : 22.53 min Low Point : 0.25 mV High Point : 42.68 mV
Plot Offset: 0.25 mV Plot Scale: 42.4 mV



GC22 Rtx-CLPesticides

Sample Name : 176248-001,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHa\328a047.raw
Date : 11/29/04 11:39:35 AM
Method : gc22ins Time of Injection: 11/24/04 7:59:20 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.54 mV High Point : 119.67 mV
Scale Factor: 1.0 Plot Offset: 0.54 mV Plot Scale: 119.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-001,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 47

Date : 11/29/04 11:38:16 AM
Data Acquisition Time : 11/24/04 7:59:20 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b047.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.787	161061.17	54.4428	0.677	1	36.84	7.37
Aroclor-1016	13.700	1807.28	3.9240	0.677	1	2.65	0.53
Aroclor-1254	15.749	4494.19	0.0045	0.677	1	0.00	0.00
Aroclor-1260	19.548	3536.49	6.2565	0.677	1	4.23	0.85
Decachlorobiphenyl	22.761	91620.29	64.9350	0.677	1	43.93	8.79
		262519.43	129.5628			87.66	17.53

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.767	580.50	11.4455	0.677	1	7.74	1.55
PCB1016#2	11.299	0.00	0.0000	0.677	1	0.00	0.00
PCB1016#3	11.934	382.00	1.8349	0.677	1	1.24	0.25
PCB1016#4	12.466	133.00	2.2534	0.677	1	1.52	0.30
PCB1016#5	13.700	711.78	10.1047	0.677	1	6.84	1.37
		1807.28	25.6385			17.35	3.47

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.460	435.00	5.0175	0.677	1	3.39	0.68
PCB1254#2	15.050	1351.89	11.5528	0.677	1	7.82	1.56
PCB1254#3	15.749	1772.30	21.0364	0.677	1	14.23	2.85
PCB1254#4	15.997	418.00	2.8586	0.677	1	1.93	0.39
PCB1254#5	16.321	517.00	16.8284	0.677	1	11.39	2.28
		4494.19	57.2937			38.76	7.75

Group Report For : Aroclor-1260

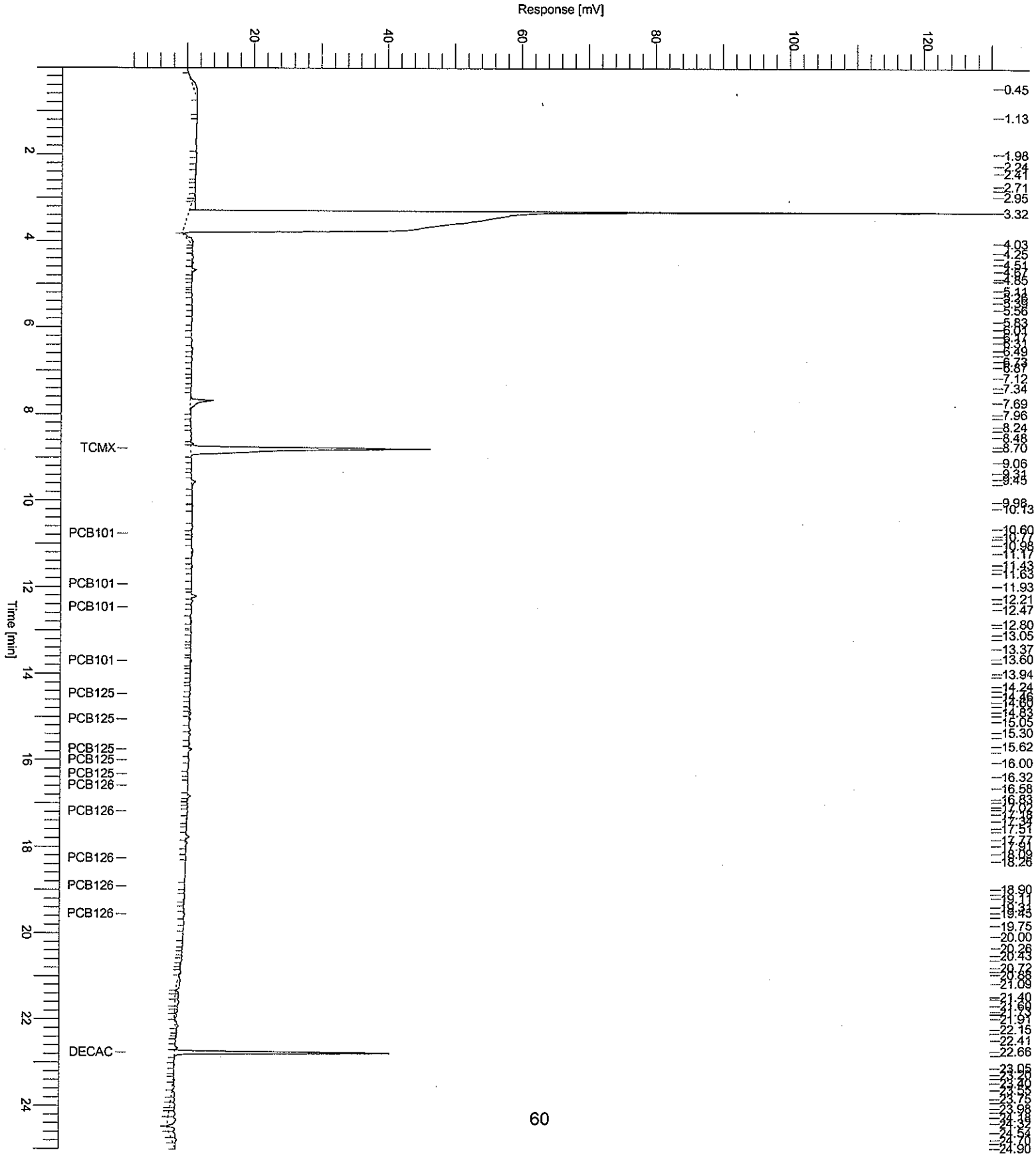
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.585	698.00	6.0961	0.677	1	4.12	0.82
PCB1260#2	17.182	1014.97	8.6236	0.677	1	5.83	1.17
PCB1260#3	18.260	134.00	1.8027	0.677	1	1.22	0.24
PCB1260#4	18.900	694.25	8.4720	0.677	1	5.73	1.15
PCB1260#5	19.548	995.27	5.6302	0.677	1	3.81	0.76
		3536.49	30.6245			20.72	4.14

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b047.TX0

GC22 Rtx-CLPesticides II

Sample Name : 176248-001,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHb\328b047
Date : 11/29/04 11:38:18 AM
Method : gc22ins Time of Injection: 11/24/04 7:59:20 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.23 mV High Point : 130.29 mV
Scale Factor: 1.0 Plot Offset: 1.23 mV Plot Scale: 129.1 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	176248-002	Cident	: DUP112304A
Seqnum	: 254473018048	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 328_048	Batchnum	: 96828	Injected	: 24-NOV-2004 20:26
IDF	: 1.0			Units	: ug/Kg

Prep: 14.88 g --> 10.0 ml = 0.672 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=328_035	Flags
Aroclor-1016	B	254452018001	ND					9.7		
Aroclor-1016 Peak # 1.....	B	254452018001		3.16	ND					
Aroclor-1016 Peak # 2	B	254452018001		ND	3.26					
Aroclor-1016 Peak # 3.....	B	254452018001		0.28	ND					
Aroclor-1016 Peak # 4	B	254452018001		ND	ND					
Aroclor-1016 Peak # 5.....	B	254452018001		0.87	ND					
Aroclor-1221	B		ND					19		
Aroclor-1232	B		ND					9.7		
Aroclor-1242	B		ND					9.7		
Aroclor-1248	B		ND					9.7		
Aroclor-1254	B	254453315001	ND					9.7		?v
Aroclor-1254 Peak # 1	B	254453315001		ND	4.98					
Aroclor-1254 Peak # 2.....	B	254453315001		1.94	0.45	124%				
Aroclor-1254 Peak # 3.....	B	254453315001		8.34	9.28	11%				
Aroclor-1254 Peak # 4.....	B	254453315001		0.89	ND					
Aroclor-1254 Peak # 5.....	B	254453315001		5.05	1.83	94%				
Aroclor-1260	B	254452018001	ND					9.7		
Aroclor-1260 Peak # 1.....	B	254452018001		3.77	0.82	128%				
Aroclor-1260 Peak # 2.....	B	254452018001		0.82	1.12	31%				
Aroclor-1260 Peak # 3.....	B	254452018001		17.07	1.02	178%				
Aroclor-1260 Peak # 4	B	254452018001		ND	0.37					
Aroclor-1260 Peak # 5.....	B	254452018001		1.61	0.96	51%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	254452018001	33.60	31.39	93	65-135	
Decachlorobiphenyl	B	254452018001	33.60	37.95	113	65-135	>c+

+=high bias >=closing ?=missing c=CCV v=ICV out

Analyst: _____ Date: 11/29/04 Reviewer: _____ Date: 1/29/05

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-002,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 48

Date : 11/29/04 12:26:25 PM
Data Acquisition Time : 11/24/04 8:26:57 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a048p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.036	158461.00	51.8753	0.672	1	34.86	6.97
Aroclor-1016	11.940	289.00	0.9586	0.672	1	0.64	0.13
Aroclor-1254	15.164	1953.00	0.0020	0.672	1	0.00	0.00
Aroclor-1260	16.586	748.00	1.3426	0.672	1	0.90	0.18
Decachlorobiphenyl	21.801	90947.00	71.0312	0.672	1	47.74	9.55
		252398.00	125.2097			84.15	16.83

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.125	0.00	0.0000	0.672	1	0.00	0.00
PCB1016#2	11.940	289.00	4.8511	0.672	1	3.26	0.65
PCB1016#3	12.399	0.00	0.0000	0.672	1	0.00	0.00
PCB1016#4	12.830	0.00	0.0000	0.672	1	0.00	0.00
PCB1016#5	13.051	0.00	0.0000	0.672	1	0.00	0.00
		289.00	4.8511			3.26	0.65

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.763	539.00	7.4153	0.672	1	4.98	1.00
PCB1254#2	14.435	85.00	0.6728	0.672	1	0.45	0.09
PCB1254#3	15.164	1085.50	13.8106	0.672	1	9.28	1.86
PCB1254#4	15.455	0.00	0.0000	0.672	1	0.00	0.00
PCB1254#5	16.145	243.50	2.7263	0.672	1	1.83	0.37
		1953.00	24.6250			16.55	3.31

11/29/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.893	122.00	1.2218	0.672	1	0.82	0.16
PCB1260#2	16.586	250.50	1.6725	0.672	1	1.12	0.22
PCB1260#3	17.565	105.00	1.5107	0.672	1	1.02	0.20
PCB1260#4	18.187	42.00	0.5440	0.672	1	0.37	0.07
PCB1260#5	18.936	228.50	1.4212	0.672	1	0.96	0.19
		748.00	6.3701			4.28	0.86

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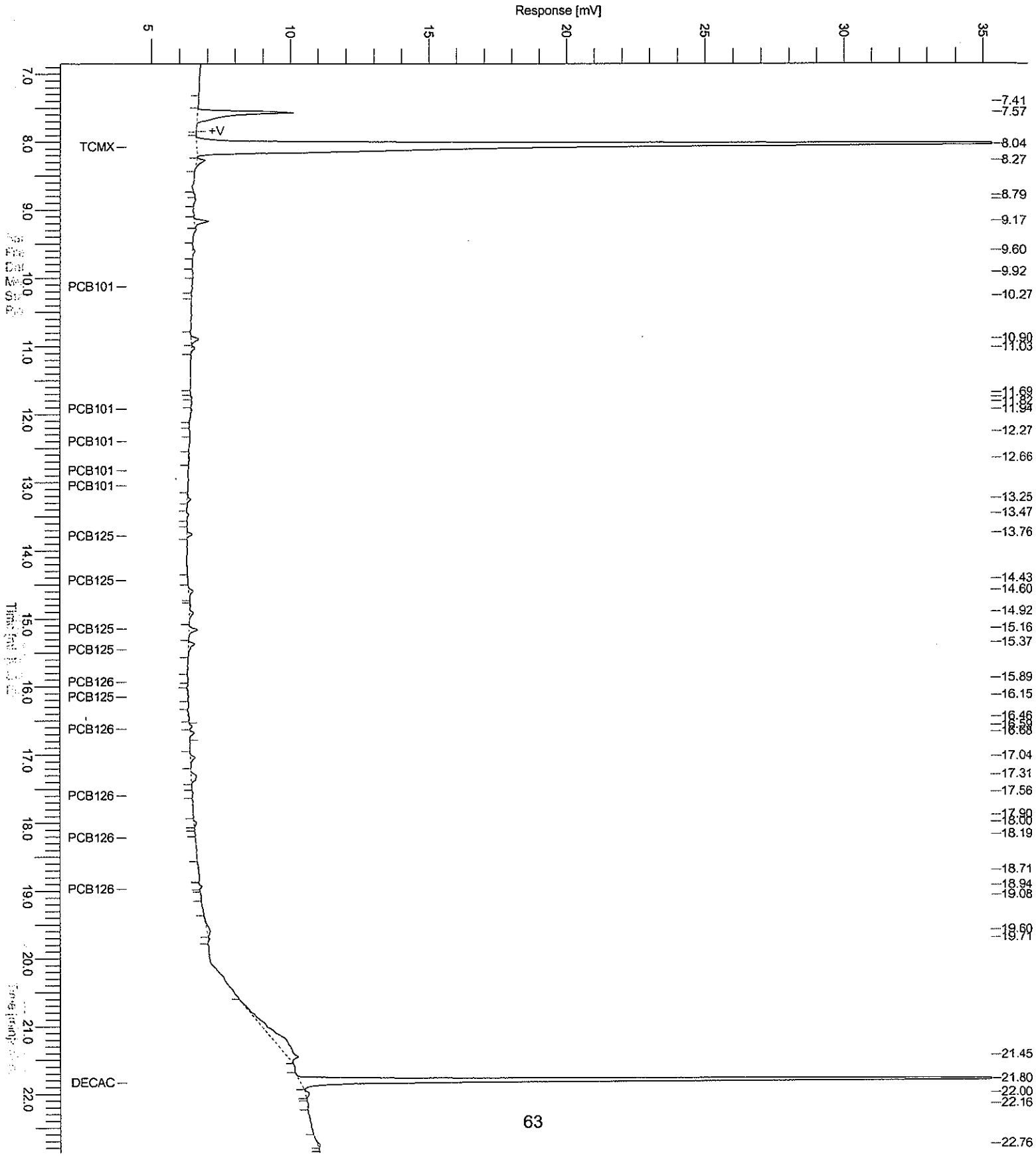
Report stored in ASCII file: G:\gc22\CHA\328a048p.TX0

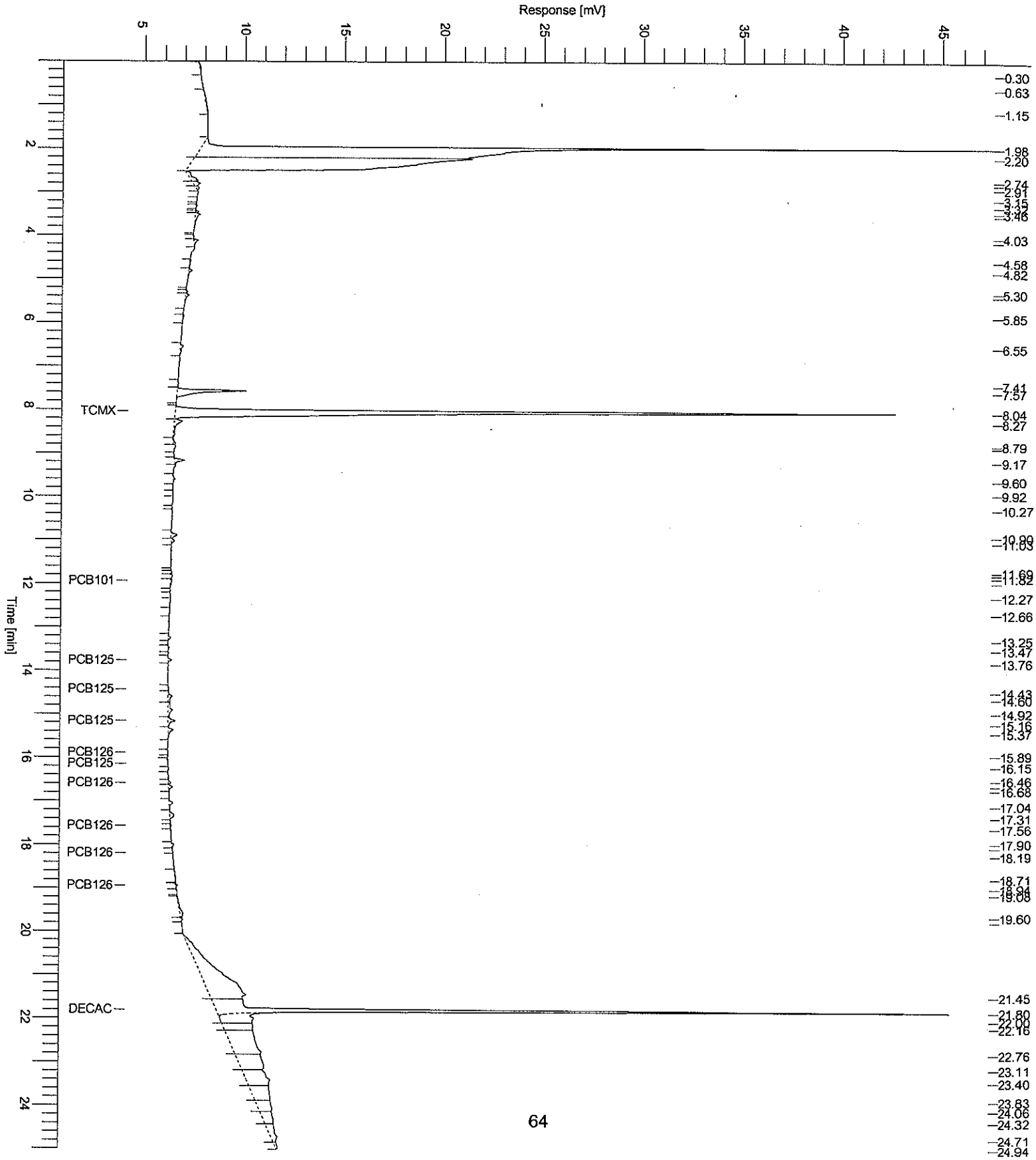
GC22 Rtx-CLPesticides

Sample Name : 176248-002,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHa\328a048.raw
Date : 11/29/04 12:26:29 PM
Method : Time of Injection: 11/24/04 8:26:57 PM
Start Time : 6.85 min End Time : 22.87 min Low Point : 4.09 mV High Point : 35.31 mV
Plot Offset: 4.09 mV Plot Scale: 31.2 mV



GC22 Rtx-CLPesticides

Sample Name : 176248-002,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHa\328a048.raw
Date : 11/29/04 11:39:40 AM
Method : gc22ins Time of Injection: 11/24/04 8:26:57 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.20 mV High Point : 47.52 mV
Scale Factor: 1.0 Plot Offset: 4.20 mV Plot Scale: 43.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-002,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 48

Date : 11/29/04 11:38:21 AM
Data Acquisition Time : 11/24/04 8:26:57 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b048.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.787	138191.30	46.7122	0.672	1	31.39	6.28
Aroclor-1016	10.763	416.40	0.9041	0.672	1	0.61	0.12
Aroclor-1254	15.751	1807.63	0.0018	0.672	1	0.00	0.00
Aroclor-1260	18.298	3098.39	5.4814	0.672	1	3.68	0.74
Decachlorobiphenyl	22.763	79672.19	56.4669	0.672	1	37.95	7.59
		223185.90	109.5664			73.63	14.73

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.763	238.38	4.7001	0.672	1	3.16	0.63
PCB1016#2	11.299	0.00	0.0000	0.672	1	0.00	0.00
PCB1016#3	12.012	87.00	0.4179	0.672	1	0.28	0.06
PCB1016#4	12.443	0.00	0.0000	0.672	1	0.00	0.00
PCB1016#5	13.697	91.01	1.2920	0.672	1	0.87	0.17
		416.40	6.4100			4.31	0.86

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.504	0.00	0.0000	0.672	1	0.00	0.00
PCB1254#2	15.051	338.00	2.8884	0.672	1	1.94	0.39
PCB1254#3	15.751	1044.93	12.4029	0.672	1	8.34	1.67
PCB1254#4	16.001	193.69	1.3246	0.672	1	0.89	0.18
PCB1254#5	16.315	231.00	7.5191	0.672	1	5.05	1.01
		1807.63	24.1350			16.22	3.24

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.590	642.21	5.6088	0.672	1	3.77	0.75
PCB1260#2	17.180	144.00	1.2235	0.672	1	0.82	0.16
PCB1260#3	18.298	1888.49	25.4056	0.672	1	17.07	3.41
PCB1260#4	18.922	0.00	0.0000	0.672	1	0.00	0.00
PCB1260#5	19.552	423.69	2.3968	0.672	1	1.61	0.32
		3098.39	34.6347			23.28	4.66

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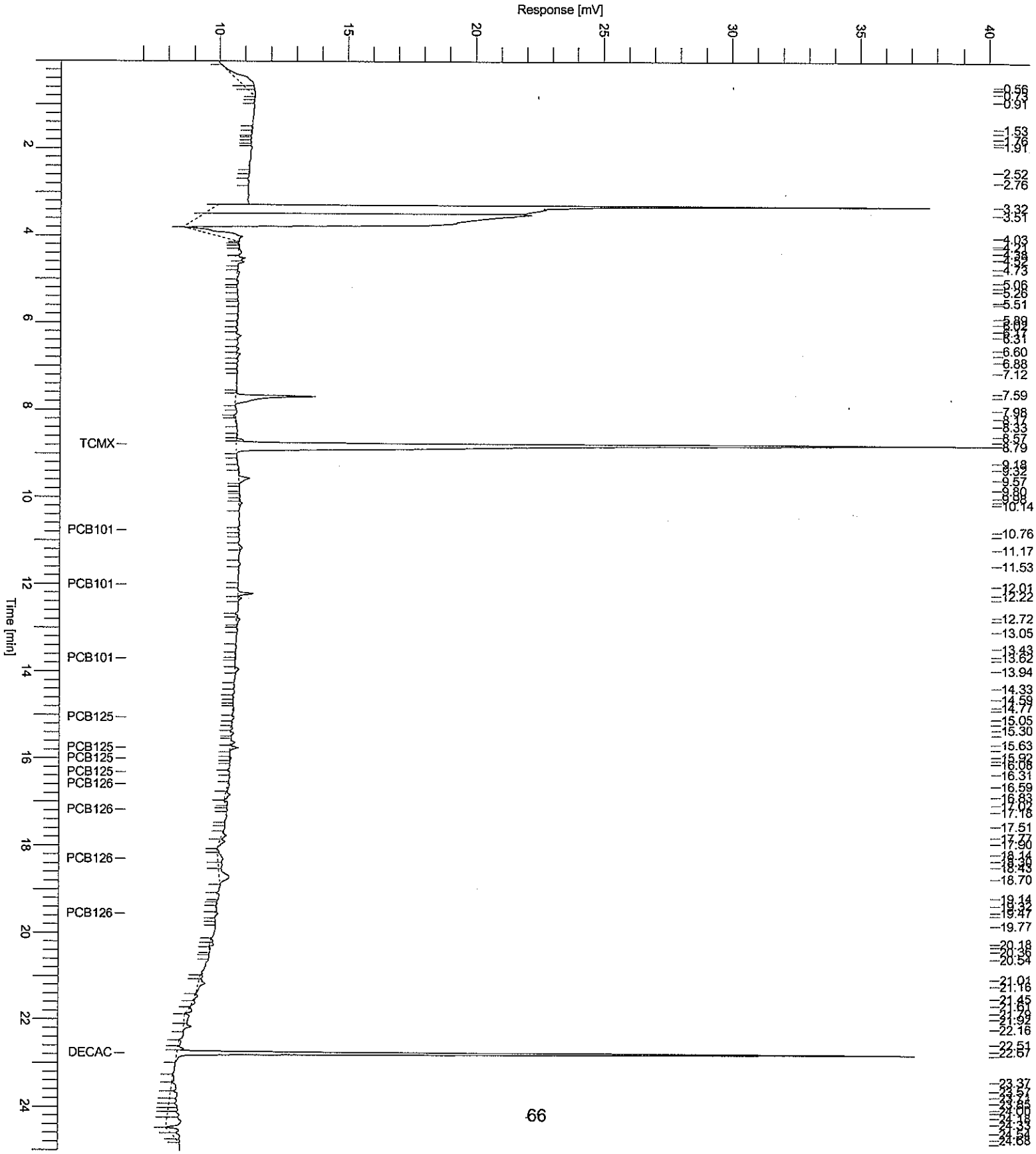
Report stored in ASCII file: G:\gc22\CHB\328b048.TX0

GC22 Rtx-CLPesticides II

Sample Name : 176248-002,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHb\328b048
Date : 11/29/04 11:38:23 AM
Method : gc22ins Time of Injection: 11/24/04 8:26:57 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 6.39 mV High Point : 40.16 mV
Scale Factor: 1.0 Plot Offset: 6.39 mV Plot Scale: 33.8 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC06	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 204481766014	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 334_014	Batchnum	: 96948	Injected	: 29-NOV-2004 22:52
IDF	: 1.0			Units	: ug/Kg

Prep: 14.96 g --> 10.0 ml = 0.6684 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=334_023	Flags
Aroclor-1016	A	204456284001	ND			9.6		
Aroclor-1016 Peak # 1	A	204456284001	ND	5.44				
Aroclor-1016 Peak # 2	A	204456284001	ND	ND				
Aroclor-1016 Peak # 3.....A		204456284001	0.59	0.87	38%			
Aroclor-1016 Peak # 4.....A		204456284001	4.42	4.65	5%			
Aroclor-1016 Peak # 5.....A		204456284001	20.74	0.69	187%			
Aroclor-1221	A		ND			19		
Aroclor-1232	A		ND			9.6		
Aroclor-1242	A		ND			9.6		
Aroclor-1248	A		ND			9.6		
Aroclor-1254	A	204461493001	10	0.71	174%	9.6		?v x
Aroclor-1254 Peak # 1.....A		204461493001	48.67	ND				
Aroclor-1254 Peak # 2	A	204461493001	ND	0.21				
Aroclor-1254 Peak # 3	A	204461493001	ND	ND				
Aroclor-1254 Peak # 4	A	204461493001	ND	1.42				
Aroclor-1254 Peak # 5.....A		204461493001	2.14	1.92	11%			
Aroclor-1260	A	204456284001	ND			9.6		
Aroclor-1260 Peak # 1	A	204456284001	ND	3.30				
Aroclor-1260 Peak # 2.....A		204456284001	4.22	0.62	149%			
Aroclor-1260 Peak # 3.....A		204456284001	18.33	35.40	64%			
Aroclor-1260 Peak # 4.....A		204456284001	3.97	3.19	22%			
Aroclor-1260 Peak # 5.....A		204456284001	4.54	4.19	8%			

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	204456284001	33.42	33.27	100	65-135	>c-
Decachlorobiphenyl	A	204456284001	33.42	41.27	123	65-135	

-=low bias >=closing ?=missing c=CCV v=ICV out x=false positive

Analyst: _____ Date: 11/30/04 Reviewer: _____ Date: 11/30/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-003,96948
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/30/04 12:04:33 PM
Data Acquisition Time : 11/29/04 10:52:41 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a014p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	556001.68	49.78	0.6684	1	33.27	6.65
Aroclor-1016	11.839	7127.29	4.43	0.6684	1	2.96	0.59
Aroclor-1254	13.243	27865.43	0.03	0.6684	1	0.02	0.00
Aroclor-1260	17.001	21315.03	9.29	0.6684	1	6.21	1.24
Decachlorobiphenyl	21.680	502796.10	61.74	0.6684	1	41.27	8.25
		1115105.52	125.27			83.74	16.75

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	0.6684	1	0.00	0.00
PCB1016#2	9.623	0.00	0.00	0.6684	1	0.00	0.00
PCB1016#3	10.892	451.21	0.88	0.6684	1	0.59	0.12
PCB1016#4	11.409	1524.01	6.61	0.6684	1	4.42	0.88
PCB1016#5	11.839	5152.06	31.03	0.6684	1	20.74	4.15
		7127.29	38.53			25.75	5.15

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.243	26356.46	72.81	0.6684	1	48.67	9.73
PCB1254#2	13.869	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#3	14.562	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#4	15.547	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#5	16.024	1508.97	3.20	0.6684	1	2.14	0.43
		27865.43	76.01			50.81	10.16

11/30/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.966	0.00	0.00	0.6684	1	0.00	0.00
PCB1260#2	16.262	2035.42	6.32	0.6684	1	4.22	0.84
PCB1260#3	17.001	10462.65	27.42	0.6684	1	18.33	3.67
PCB1260#4	17.537	2588.02	5.94	0.6684	1	3.97	0.79
PCB1260#5	18.325	6228.95	6.79	0.6684	1	4.54	0.91
		21315.03	46.47			31.06	6.21

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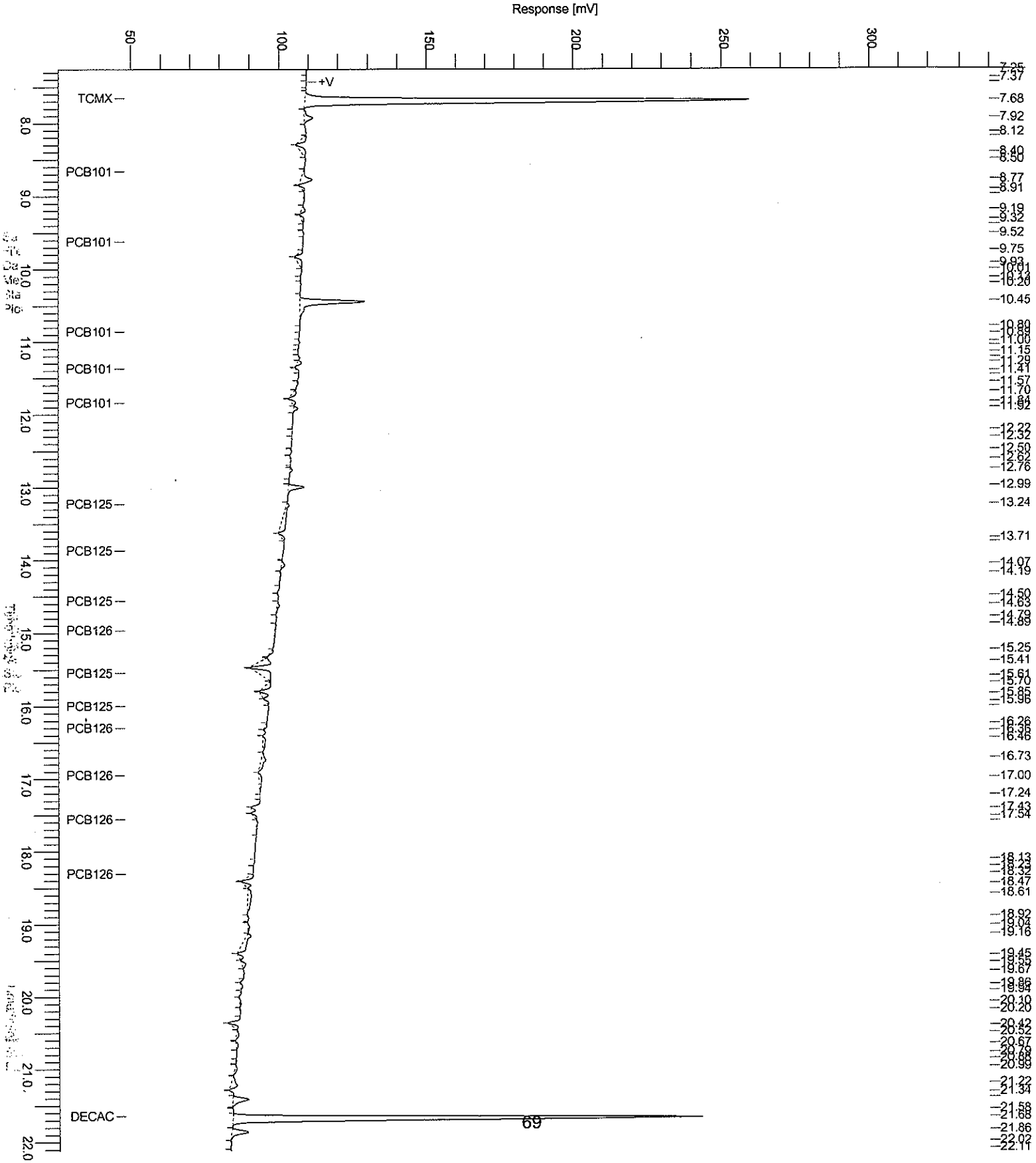
Report stored in ASCII file: G:\gc06\cha\334a014p.TX0

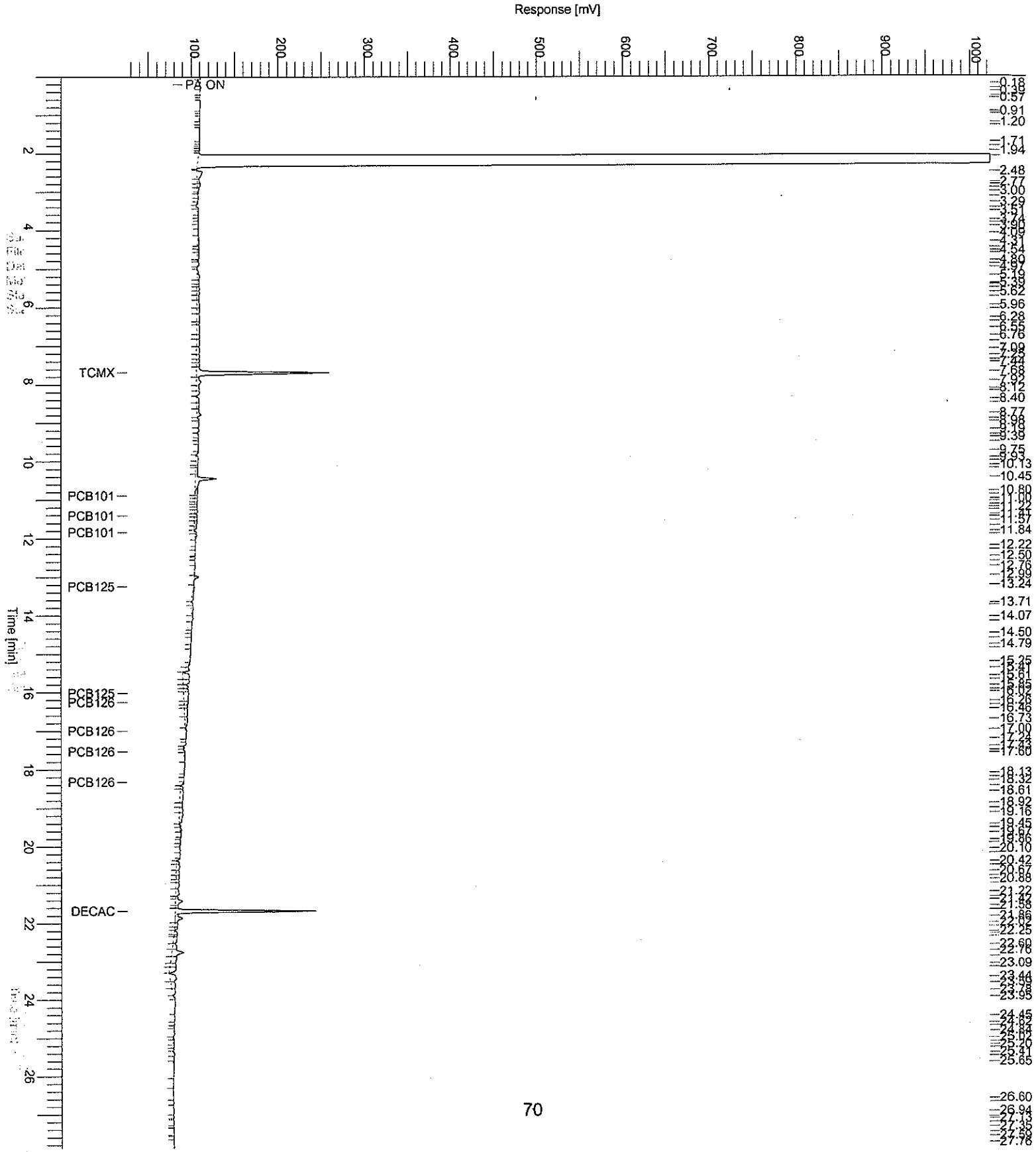
GC 06 Rtx-CLPesticides

Sample Name : 176248-003,96948 Sample #: 96948
FileName : G:\gc06\cha\334a014.raw
Date : 11/30/04 12:04:37 PM
Method : Time of Injection: 11/29/04 10:52:41 PM
Start Time : 7.25 min End Time : 22.12 min Low Point : 47.91 mV High Point : 340.30 mV
Plot Offset: 47.91 mV Plot Scale: 292.4 mV



GC 06 Rtx-CLPesticides

Sample Name : 176248-003,96948 Sample #: 96948 Page 1 of 1
FileName : G:\gc06\cha\334a014.raw
Date : 11/30/04 12:01:15 PM
Method : gc06fsa1ul Time of Injection: 11/29/04 10:52:41 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 25.60 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 25.60 mV Plot Scale: 998.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-003,96948
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/30/04 12:08:38 PM
Data Acquisition Time : 11/29/04 10:52:41 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b014p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	934109.42	47.19	0.6684	1	31.55	6.31
Aroclor-1016	9.919	8940.74	2.58	0.6684	1	1.73	0.35
Aroclor-1254	13.395	3783.06	0.00	0.6684	1	0.00	0.00
Aroclor-1260	15.670	53577.14	10.60	0.6684	1	7.08	1.42
Decachlorobiphenyl	20.653	508905.23	54.01	0.6684	1	36.10	7.22
		1509315.59	114.39			76.46	15.29

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.369	3516.71	8.14	0.6684	1	5.44	1.09
PCB1016#2	8.814	0.00	0.00	0.6684	1	0.00	0.00
PCB1016#3	9.433	1987.53	1.31	0.6684	1	0.87	0.17
PCB1016#4	9.919	2921.90	6.95	0.6684	1	4.65	0.93
PCB1016#5	10.795	514.59	1.04	0.6684	1	0.69	0.14
		8940.74	17.44			11.66	2.33

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.907	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#2	12.474	340.83	0.31	0.6684	1	0.21	0.04
PCB1254#3	13.133	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#4	13.395	2640.69	2.12	0.6684	1	1.42	0.28
PCB1254#5	13.702	801.54	2.87	0.6684	1	1.92	0.38
		3783.06	5.30			3.54	0.71

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.556	4940.68	4.94	0.6684	1	3.30	0.66
PCB1260#2	15.229	1150.47	0.92	0.6684	1	0.62	0.12
PCB1260#3	15.670	35087.40	52.96	0.6684	1	35.40	7.08
PCB1260#4	16.226	3356.15	4.77	0.6684	1	3.19	0.64
PCB1260#5	16.913	9042.44	6.27	0.6684	1	4.19	0.84
		53577.14	69.86			46.70	9.34

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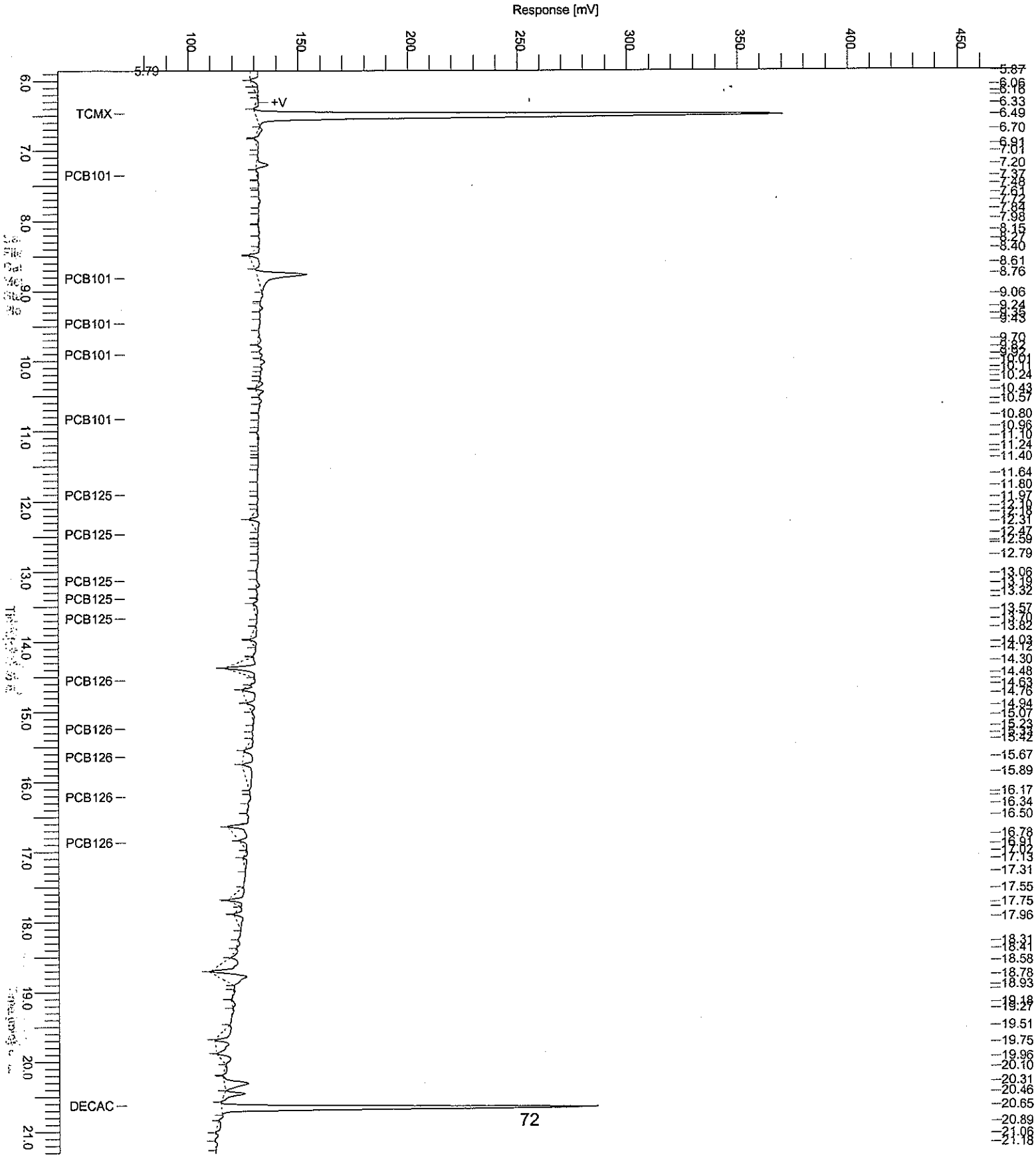
Report stored in ASCII file: G:\gc06\chb\334b014p.TX0

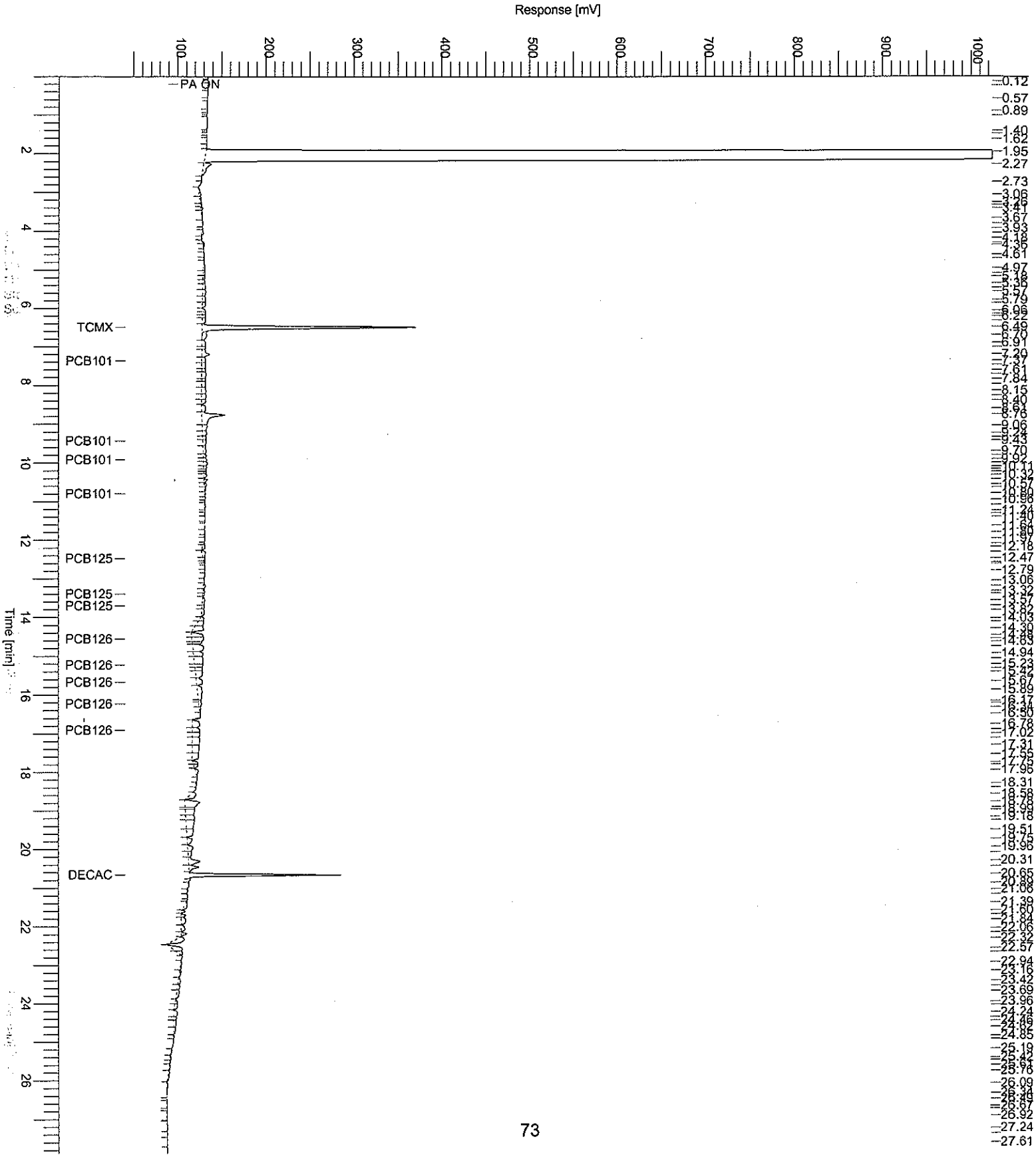
GC 06 Rtx-5

Sample Name : 176248-003,96948 Sample #: 96948
FileName : G:\gc06\chb\334b014.raw
Date : 11/30/04 12:08:42 PM
Method : Time of Injection: 11/29/04 10:52:41 PM
Start Time : 5.85 min End Time : 21.31 min Low Point : 71.03 mV High Point : 464.66 mV
Plot Offset: 71.03 mV Plot Scale: 393.6 mV



GC 06 Rtx-5

Sample Name : 176248-003,96948 Sample #: 96948 Page 1 of 1
FileName : G:\gc06\chb\334b014
Date : 11/30/04 12:01:50 PM
Method : gc06fsa1ul Time of Injection: 11/29/04 10:52:41 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 41.00 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 41.00 mV Plot Scale: 983.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	176248-004	Cident	: BB3EX151[0.5]
Seqnum	: 254473018049	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 328_049	Batchnum	: 96828	Injected	: 24-NOV-2004 20:54
IDF	: 1.0			Units	: ug/Kg

Prep: 15.16 g --> 10.0 ml = 0.6596 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=328_035	Flags
Aroclor-1016	B	254452018001	ND						9.5		
Aroclor-1016 Peak # 1	B	254452018001		ND		ND					
Aroclor-1016 Peak # 2	B	254452018001		ND		ND					
Aroclor-1016 Peak # 3.....B		254452018001		0.30		ND					
Aroclor-1016 Peak # 4.....B		254452018001		1.23		ND					
Aroclor-1016 Peak # 5	B	254452018001		ND		ND					
Aroclor-1221	B		ND						19		
Aroclor-1232	B		ND						9.5		
Aroclor-1242	B		ND						9.5		
Aroclor-1248	B		ND						9.5		
Aroclor-1254	B	254453315001	ND						9.5		?v
Aroclor-1254 Peak # 1	B	254453315001		ND		6.21					
Aroclor-1254 Peak # 2	B	254453315001		ND		ND					
Aroclor-1254 Peak # 3	B	254453315001		ND		3.84					
Aroclor-1254 Peak # 4	B	254453315001		ND		ND					
Aroclor-1254 Peak # 5.....B		254453315001		2.28		ND					
Aroclor-1260	B	254452018001	ND						9.5		
Aroclor-1260 Peak # 1.....B		254452018001		0.70		0.43	48%				
Aroclor-1260 Peak # 2	B	254452018001		ND		0.42					
Aroclor-1260 Peak # 3.....B		254452018001		2.79		0.52	137%				
Aroclor-1260 Peak # 4	B	254452018001		ND		ND					
Aroclor-1260 Peak # 5.....B		254452018001		0.46		0.30	43%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	254452018001	32.98	27.11	82	65-135	
Decachlorobiphenyl	B	254452018001	32.98	33.42	101	65-135	>c+

>=high bias >=closing ?=missing c=CCV v=ICV out

Analyst: [signature] Date: 11/29/04 Reviewer: mcs Date: 11/29/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-004,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 49

Date : 11/29/04 12:27:06 PM
Data Acquisition Time : 11/24/04 8:54:31 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a049p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.038	136869.00	44.8067	0.660	1	29.56	5.91
Aroclor-1016	12.863	0.00	0.0000	0.660	1	0.00	0.00
Aroclor-1254	13.763	1141.50	0.0011	0.660	1	0.00	0.00
Aroclor-1260	16.587	288.00	0.5169	0.660	1	0.34	0.07
Decachlorobiphenyl	21.802	76175.00	59.4940	0.660	1	39.24	7.85
		214473.50	104.8188			69.14	13.83

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.125	0.00	0.0000	0.660	1	0.00	0.00
PCB1016#2	11.920	0.00	0.0000	0.660	1	0.00	0.00
PCB1016#3	12.399	0.00	0.0000	0.660	1	0.00	0.00
PCB1016#4	12.830	0.00	0.0000	0.660	1	0.00	0.00
PCB1016#5	13.051	0.00	0.0000	0.660	1	0.00	0.00
		0.00	0.0000			0.00	0.00

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.763	684.00	9.4101	0.660	1	6.21	1.24
PCB1254#2	14.437	0.00	0.0000	0.660	1	0.00	0.00
PCB1254#3	15.168	457.50	5.8207	0.660	1	3.84	0.77
PCB1254#4	15.455	0.00	0.0000	0.660	1	0.00	0.00
PCB1254#5	16.152	0.00	0.0000	0.660	1	0.00	0.00
		1141.50	15.2308			10.05	2.01

11/29/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.893	65.00	0.6509	0.660	1	0.43	0.09
PCB1260#2	16.587	96.50	0.6443	0.660	1	0.42	0.08
PCB1260#3	17.575	54.50	0.7841	0.660	1	0.52	0.10
PCB1260#4	18.217	0.00	0.0000	0.660	1	0.00	0.00
PCB1260#5	18.945	72.00	0.4478	0.660	1	0.30	0.06
		288.00	2.5271			1.67	0.33

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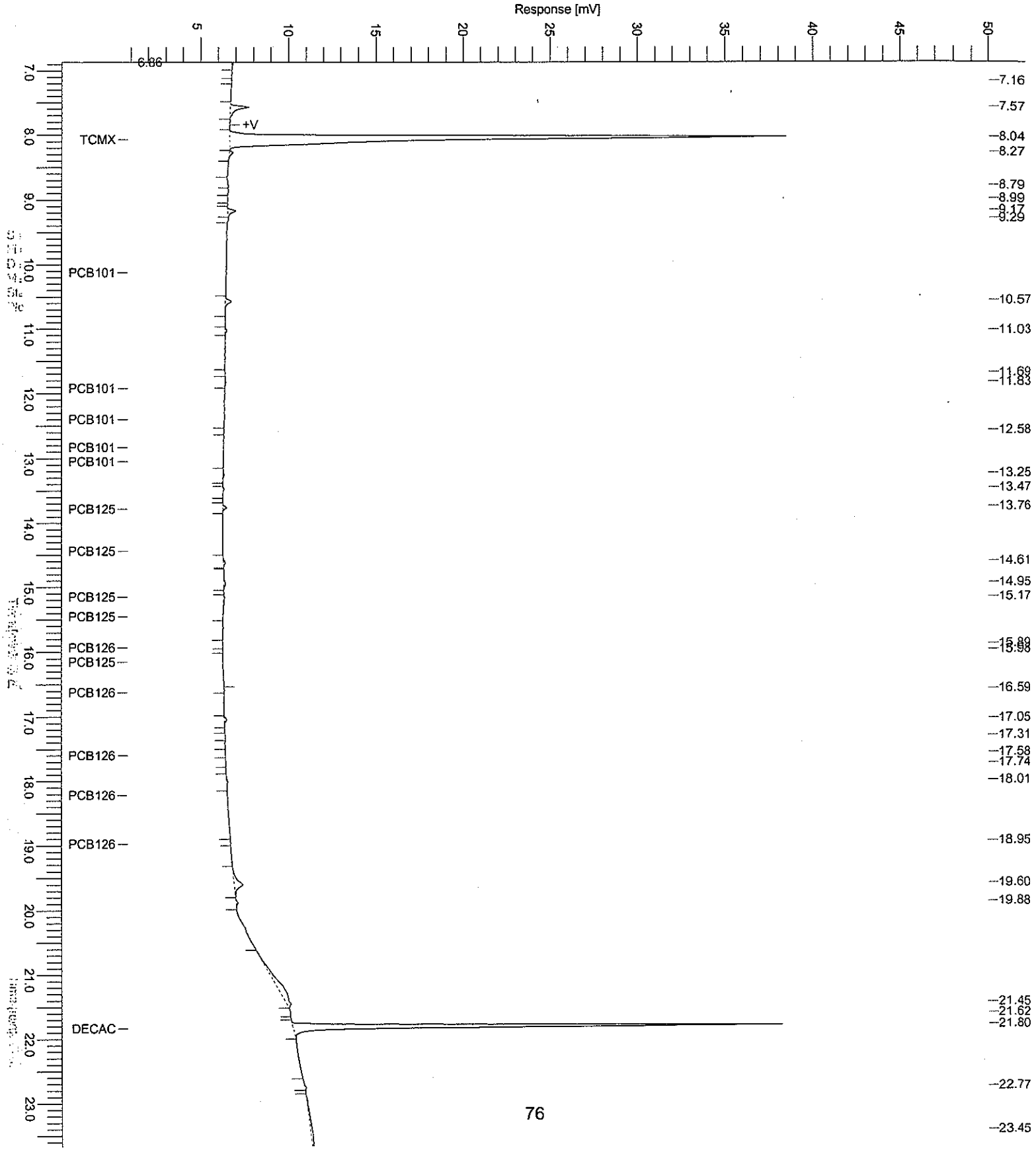
Report stored in ASCII file: G:\gc22\CHA\328a049p.TX0

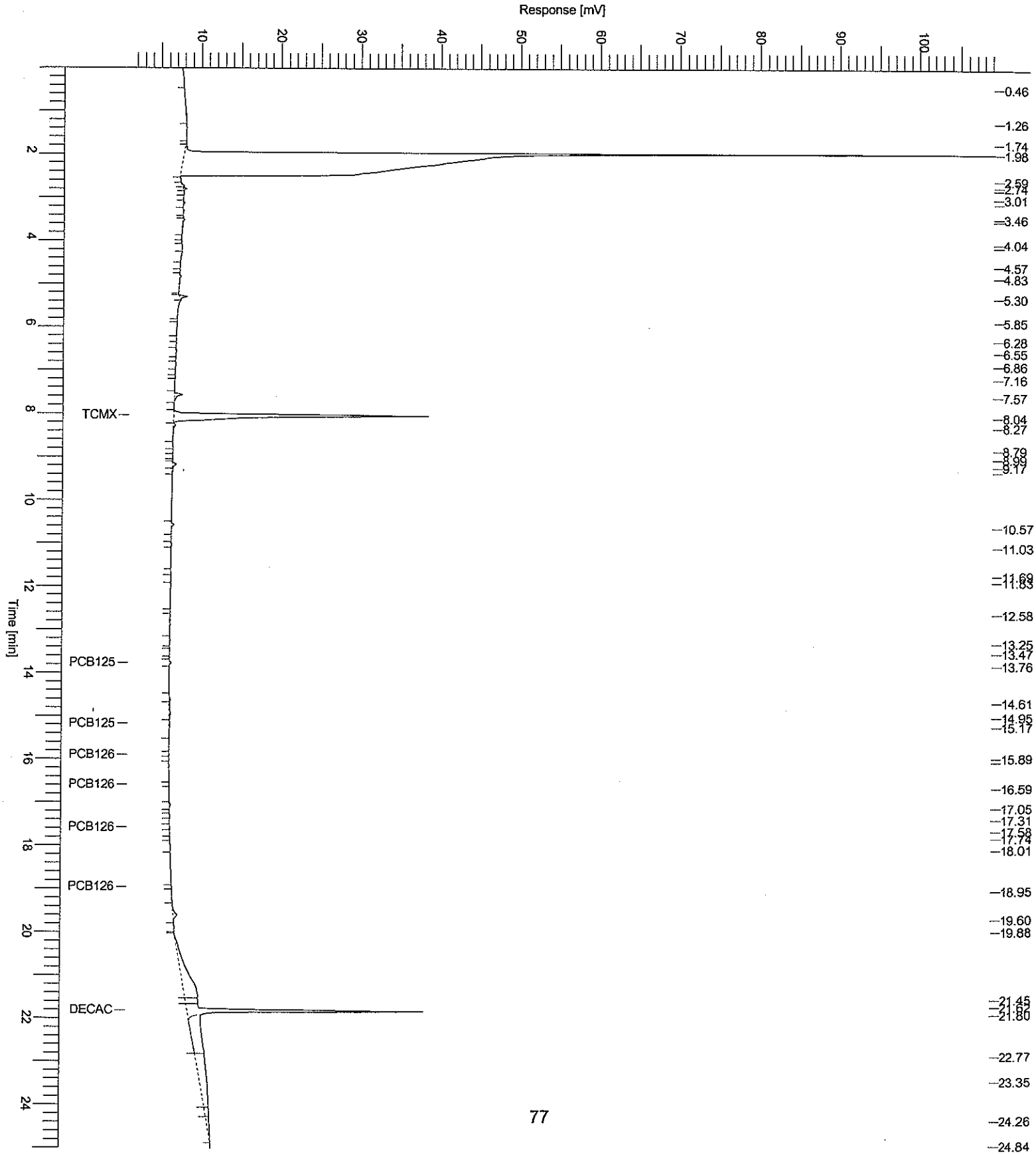
GC22 Rtx-CLPesticides

Sample Name : 176248-004,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHa\328a049.raw
Date : 11/29/04 12:27:11 PM
Method : Time of Injection: 11/24/04 8:54:31 PM
Start Time : 6.87 min End Time : 23.67 min Low Point : 0.82 mV High Point : 50.06 mV
Plot Offset: 0.82 mV Plot Scale: 49.2 mV



GC22 Rtx-CLPesticides

Sample Name : 176248-004,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHa\328a049.raw
Date : 11/29/04 11:39:44 AM
Method : gc22ins Time of Injection: 11/24/04 8:54:31 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.09 mV High Point : 109.14 mV
Scale Factor: 1.0 Plot Offset: 1.09 mV Plot Scale: 108.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-004,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 49

Date : 11/29/04 11:38:26 AM
Data Acquisition Time : 11/24/04 8:54:31 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b049.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.788	121578.52	41.0967	0.660	1	27.11	5.42
Aroclor-1016	12.018	206.50	0.4484	0.660	1	0.30	0.06
Aroclor-1254	16.305	106.00	0.0001	0.660	1	0.00	0.00
Aroclor-1260	18.307	558.00	0.9872	0.660	1	0.65	0.13
Decachlorobiphenyl	22.764	71476.00	50.6579	0.660	1	33.42	6.68
		193925.02	93.1902			61.47	12.29

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.798	0.00	0.0000	0.660	1	0.00	0.00
PCB1016#2	11.299	0.00	0.0000	0.660	1	0.00	0.00
PCB1016#3	12.018	96.00	0.4611	0.660	1	0.30	0.06
PCB1016#4	12.458	110.50	1.8722	0.660	1	1.23	0.25
PCB1016#5	13.722	0.00	0.0000	0.660	1	0.00	0.00
		206.50	2.3334			1.54	0.31

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.504	0.00	0.0000	0.660	1	0.00	0.00
PCB1254#2	15.068	0.00	0.0000	0.660	1	0.00	0.00
PCB1254#3	15.770	0.00	0.0000	0.660	1	0.00	0.00
PCB1254#4	16.023	0.00	0.0000	0.660	1	0.00	0.00
PCB1254#5	16.305	106.00	3.4503	0.660	1	2.28	0.46
		106.00	3.4503			2.28	0.46

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.593	122.00	1.0655	0.660	1	0.70	0.14
PCB1260#2	17.209	0.00	0.0000	0.660	1	0.00	0.00
PCB1260#3	18.307	314.00	4.2242	0.660	1	2.79	0.56
PCB1260#4	18.922	0.00	0.0000	0.660	1	0.00	0.00
PCB1260#5	19.550	122.00	0.6901	0.660	1	0.46	0.09
		558.00	5.9798			3.94	0.79

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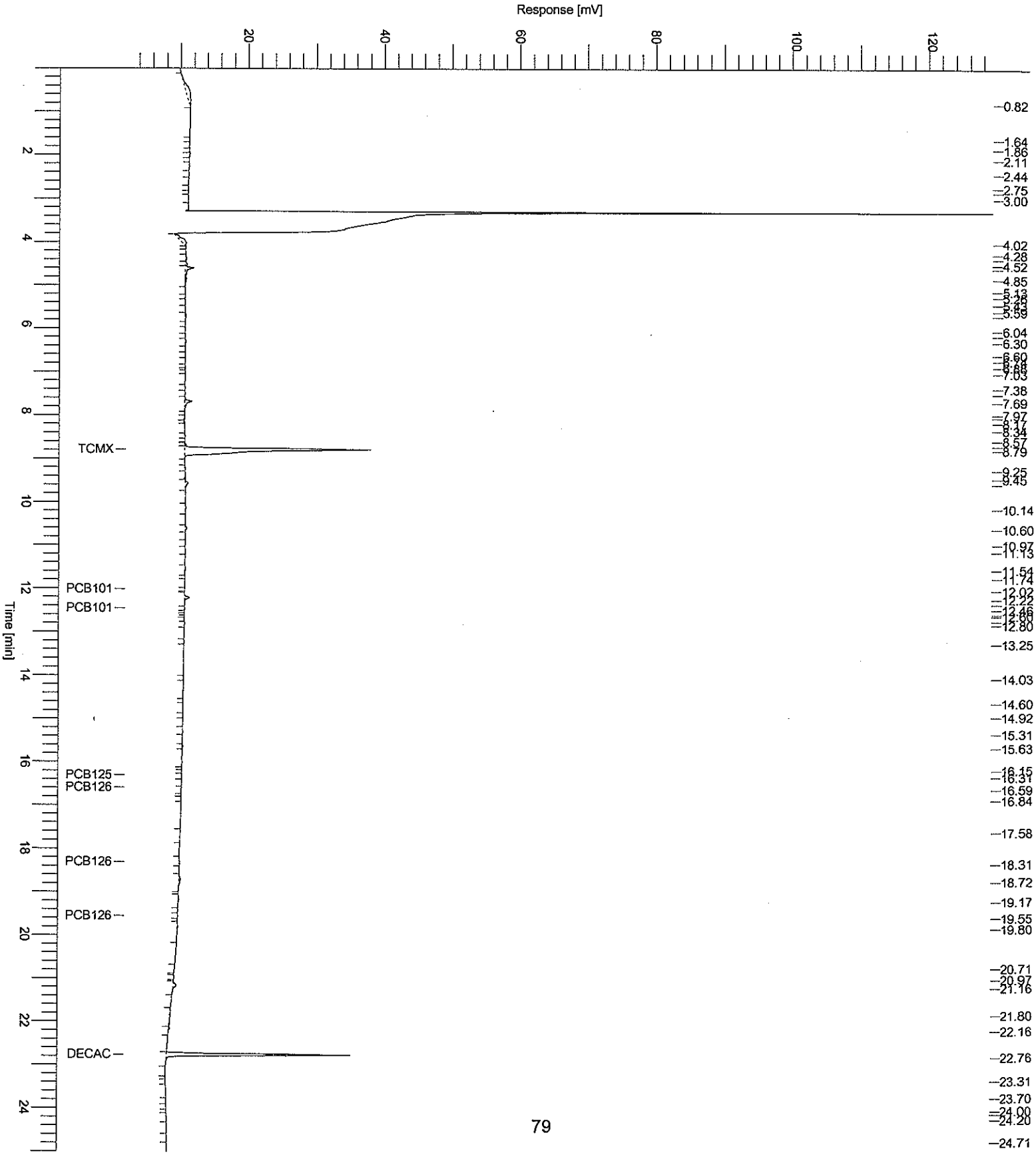
Report stored in ASCII file: G:\gc22\CHB\328b049.TX0

GC22 Rtx-CLPesticides II

Sample Name : 176248-004,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHb\328b049
Date : 11/29/04 11:38:28 AM
Method : gc22ins Time of Injection: 11/24/04 8:54:31 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 2.05 mV High Point : 129.32 mV
Scale Factor: 1.0 Plot Offset: 2.05 mV Plot Scale: 127.3 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC06	Samplenum:	176248-005	Cident	: BB3EX152[0.5]
Seqnum	: 204481766015	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 334_015	Batchnum	: 96948	Injected	: 29-NOV-2004 23:25
IDF	: 1.0			Units	: ug/Kg

Prep: 14.99 g --> 10.0 ml = 0.6671 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=334_023	Flags
Aroclor-1016	A	204456284001	ND			9.6		
Aroclor-1016 Peak # 1.....	A	204456284001	0.57	ND				
Aroclor-1016 Peak # 2.....	A	204456284001	13.15	ND				
Aroclor-1016 Peak # 3	A	204456284001	ND	ND				
Aroclor-1016 Peak # 4.....	A	204456284001	3.09	1.96	45%			
Aroclor-1016 Peak # 5.....	A	204456284001	11.50	0.56	182%			
Aroclor-1221	A		ND			19		
Aroclor-1232	A		ND			9.6		
Aroclor-1242	A		ND			9.6		
Aroclor-1248	A		ND			9.6		
Aroclor-1254	A	204461493001	ND			9.6		?v
Aroclor-1254 Peak # 1.....	A	204461493001	5.32	0.45	169%			
Aroclor-1254 Peak # 2.....	A	204461493001	2.09	0.35	142%			
Aroclor-1254 Peak # 3	A	204461493001	ND	0.46				
Aroclor-1254 Peak # 4	A	204461493001	ND	ND				
Aroclor-1254 Peak # 5.....	A	204461493001	0.50	1.01	67%			
Aroclor-1260	A	204456284001	ND			9.6		
Aroclor-1260 Peak # 1	A	204456284001	ND	ND				
Aroclor-1260 Peak # 2	A	204456284001	ND	ND				
Aroclor-1260 Peak # 3.....	A	204456284001	9.45	21.98	80%			
Aroclor-1260 Peak # 4	A	204456284001	ND	1.44				
Aroclor-1260 Peak # 5	A	204456284001	ND	0.17				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	204456284001	33.36	26.29	79	65-135	>c-
Decachlorobiphenyl	A	204456284001	33.36	36.36	109	65-135	

-=low bias >=closing ?=missing c=CCV v=ICV out

Analyst: _____ Date: 11/30/04 Reviewer: _____ Date: 12/28/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96948
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/30/04 12:05:07 PM
Data Acquisition Time : 11/29/04 11:25:54 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a015p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.667	440134.43	39.40	0.6671	1	26.29	5.26
Aroclor-1016	11.835	13224.87	8.22	0.6671	1	5.48	1.10
Aroclor-1254	13.226	5292.86	0.01	0.6671	1	0.00	0.00
Aroclor-1260	16.982	5407.38	2.36	0.6671	1	1.57	0.31
Decachlorobiphenyl	21.667	443922.57	54.51	0.6671	1	36.36	7.27
		907982.11	104.50			69.71	13.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.670	204.56	0.85	0.6671	1	0.57	0.11
PCB1016#2	9.652	9091.35	19.71	0.6671	1	13.15	2.63
PCB1016#3	10.860	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#4	11.389	1067.32	4.63	0.6671	1	3.09	0.62
PCB1016#5	11.835	2861.64	17.24	0.6671	1	11.50	2.30
		13224.87	42.42			28.30	5.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.226	2884.09	7.97	0.6671	1	5.32	1.06
PCB1254#2	13.837	2053.47	3.13	0.6671	1	2.09	0.42
PCB1254#3	14.562	0.00	0.00	0.6671	1	0.00	0.00
PCB1254#4	15.547	0.00	0.00	0.6671	1	0.00	0.00
PCB1254#5	16.003	355.31	0.75	0.6671	1	0.50	0.10
		5292.86	11.85			7.90	1.58

11/30/04

Group Report For : Aroclor-1260

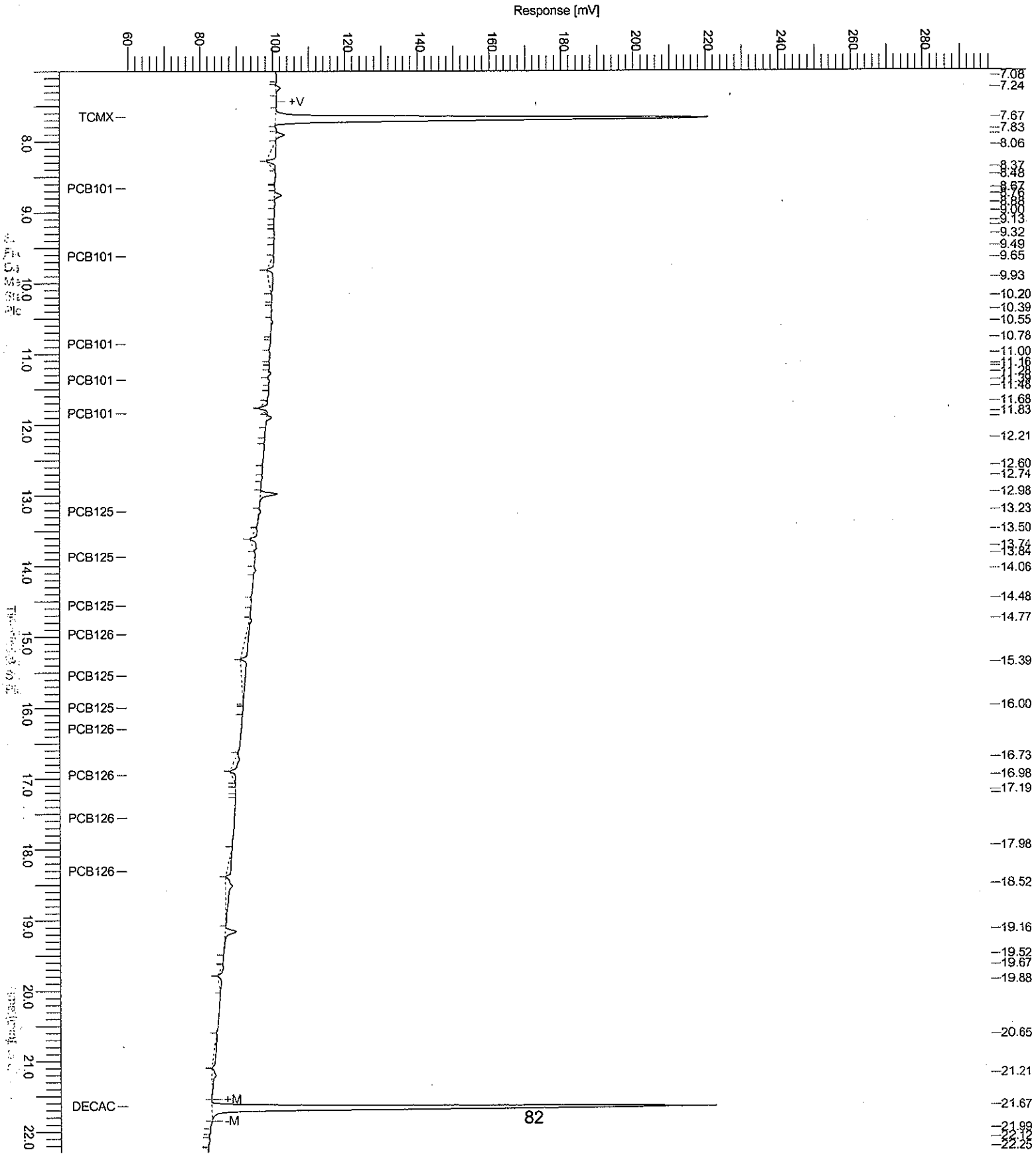
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.966	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#2	16.299	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#3	16.982	5407.38	14.17	0.6671	1	9.45	1.89
PCB1260#4	17.559	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#5	18.307	0.00	0.00	0.6671	1	0.00	0.00
		5407.38	14.17			9.45	1.89

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a015p.TX0

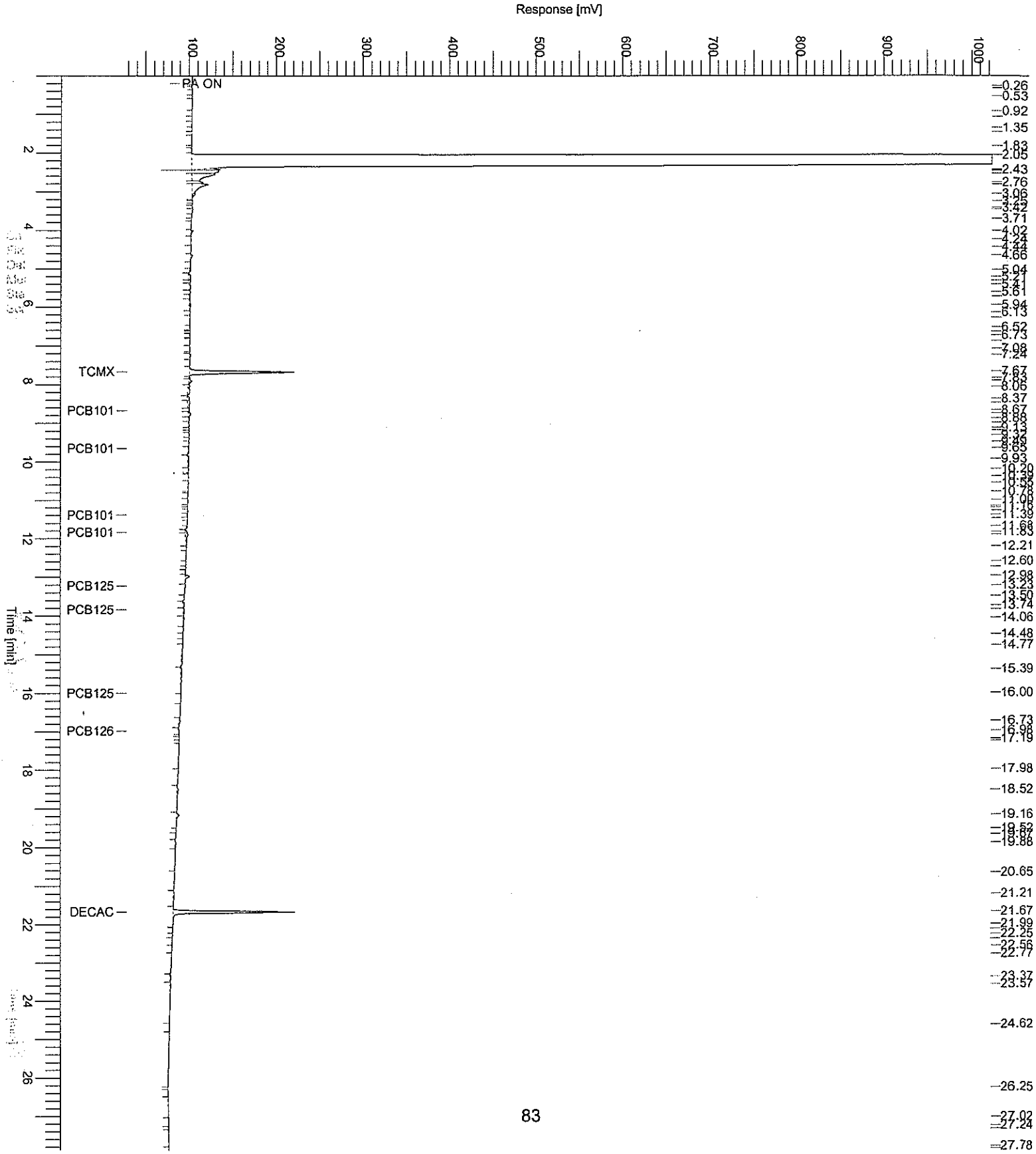
GC 06 Rtx-CLPesticides

Sample Name : 176248-005,96948 Sample #: 96948
FileName : G:\gc06\cha\334a015.raw
Date : 11/30/04 12:05:11 PM
Method : Time of Injection: 11/29/04 11:25:54 PM
Start Time : 7.00 min End Time : 22.29 min Low Point : 59.40 mV High Point : 298.55 mV
Plot Offset: 59.40 mV Plot Scale: 239.2 mV



GC 06 Rtx-CLPesticides

Sample Name : 176248-005,96948 Sample #: 96948 Page 1 of 1
FileName : G:\gc06\cha\334a015.raw
Date : 11/30/04 12:01:21 PM
Method : gc06fsa1ul Time of Injection: 11/29/04 11:25:54 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 28.92 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 28.92 mV Plot Scale: 995.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96948
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/30/04 12:09:09 PM
Data Acquisition Time : 11/29/04 11:25:54 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b015p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	833946.21	42.13	0.6671	1	28.11	5.62
Aroclor-1016	9.915	1646.32	0.48	0.6671	1	0.32	0.06
Aroclor-1254	12.483	2048.68	0.00	0.6671	1	0.00	0.00
Aroclor-1260	15.658	23710.29	4.69	0.6671	1	3.13	0.63
Decachlorobiphenyl	20.653	523812.74	55.59	0.6671	1	37.08	7.42
		1385164.24	102.89			68.64	13.73

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.351	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#2	8.814	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#3	9.465	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#4	9.915	1231.96	2.93	0.6671	1	1.96	0.39
PCB1016#5	10.787	414.35	0.84	0.6671	1	0.56	0.11
		1646.32	3.77			2.51	0.50

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.931	554.64	0.67	0.6671	1	0.45	0.09
PCB1254#2	12.483	580.66	0.53	0.6671	1	0.35	0.07
PCB1254#3	13.177	492.28	0.69	0.6671	1	0.46	0.09
PCB1254#4	13.387	0.00	0.00	0.6671	1	0.00	0.00
PCB1254#5	13.663	421.11	1.51	0.6671	1	1.01	0.20
		2048.68	3.40			2.27	0.45

Group Report For : Aroclor-1260

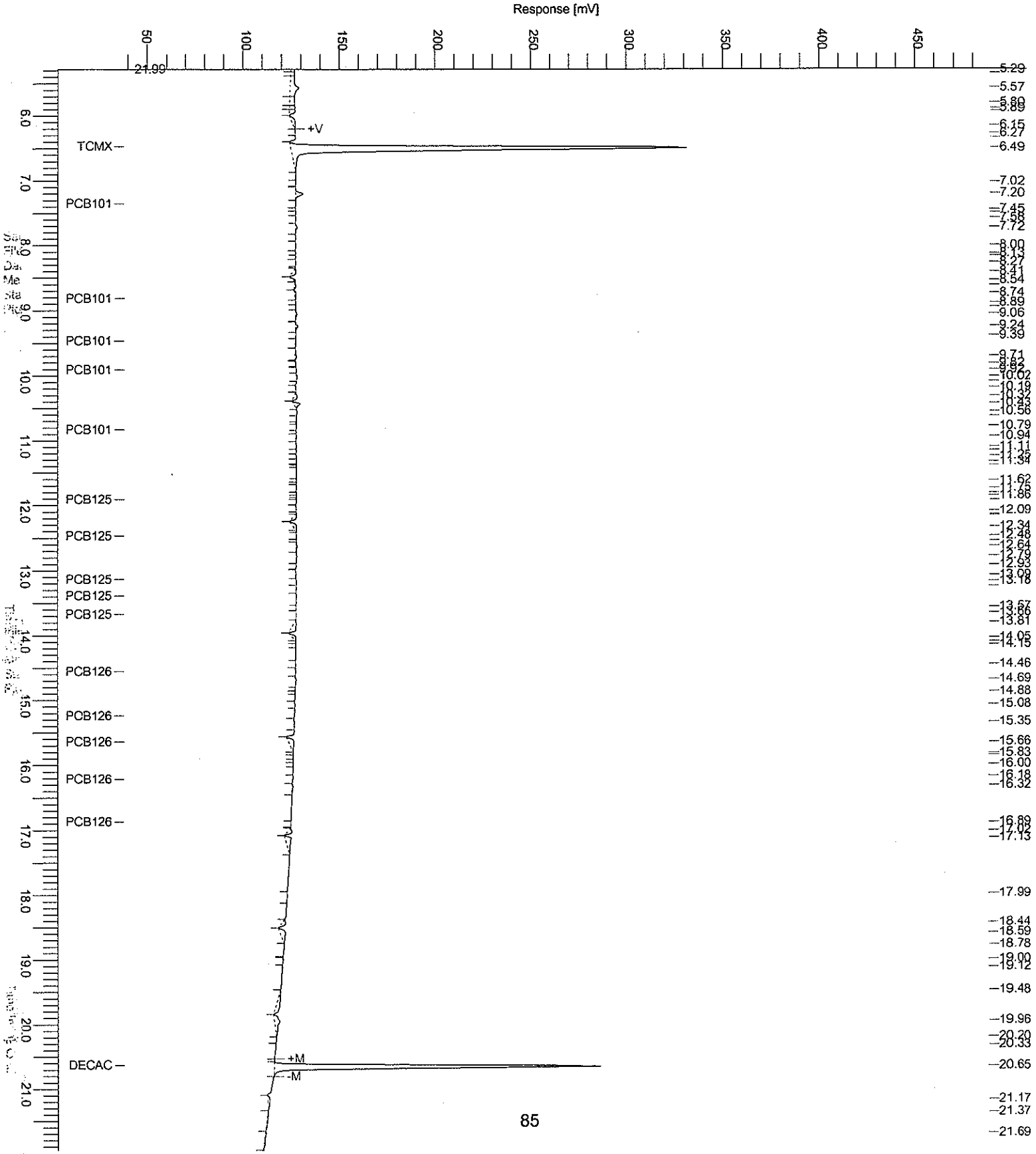
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.554	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#2	15.240	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#3	15.658	21826.76	32.95	0.6671	1	21.98	4.40
PCB1260#4	16.183	1522.48	2.16	0.6671	1	1.44	0.29
PCB1260#5	16.891	361.04	0.25	0.6671	1	0.17	0.03
		23710.29	35.36			23.59	4.72

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\334b015p.TX0

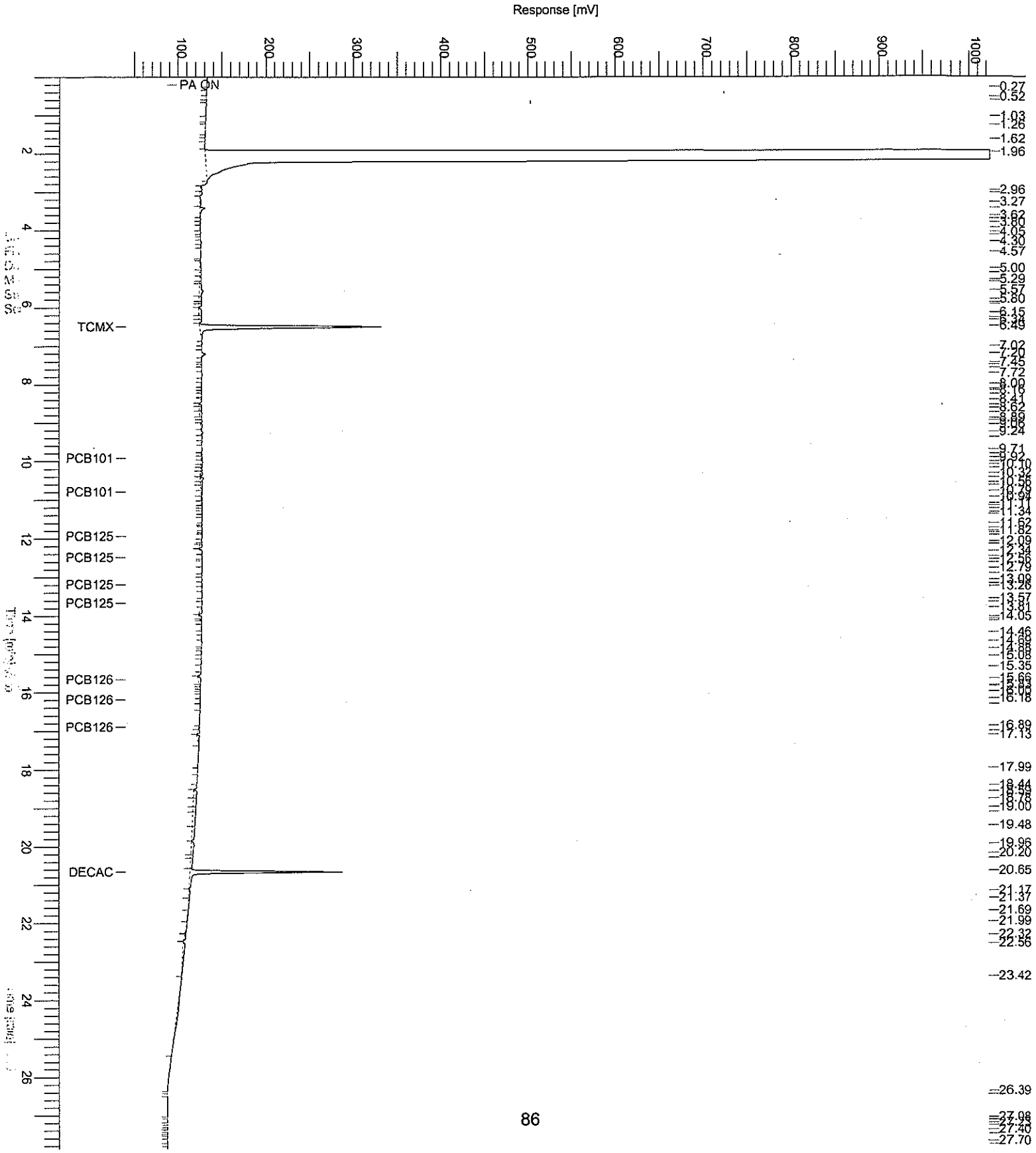
GC 06 Rtx-5

Sample Name : 176248-005,96948 Sample #: 96948 Page 1 of 1
FileName : G:\gc06\chb\334b015.raw
Date : 11/30/04 12:09:14 PM
Method : Time of Injection: 11/29/04 11:25:54 PM
Start Time : 5.28 min End Time : 21.96 min Low Point : 38.23 mV High Point : 488.99 mV
Plot Offset: 38.23 mV Plot Scale: 450.8 mV



GC 06 Rtx-5

Sample Name : 176248-005,96948 Sample #: 96948 Page 1 of 1
FileName : G:\gc06\chb\334b015
Date : 11/30/04 12:01:56 PM
Method : gc06fsa1ul Time of Injection: 11/29/04 11:25:54 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 40.69 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 40.69 mV Plot Scale: 983.3 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid	: GC22	Samplenum:	176248-005	Cident	: BB3EX152[0.5]
Seqnum	: 254473018050	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 328_050	Batchnum	: 96828	Injected	: 24-NOV-2004 21:22
IDF	: 1.0			Units	: ug/Kg

Prep: 15.01 g --> 10.0 ml = 0.6662 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=328_035	Flags
Aroclor-1016	B	254452018001	ND					9.6		
Aroclor-1016 Peak # 1.....	B	254452018001		3.81	ND					
Aroclor-1016 Peak # 2.....	B	254452018001		0.58	ND					
Aroclor-1016 Peak # 3	B	254452018001		ND	5.52					
Aroclor-1016 Peak # 4	B	254452018001		ND	ND					
Aroclor-1016 Peak # 5	B	254452018001		ND	ND					
Aroclor-1221	B		ND					19		
Aroclor-1232	B		ND					9.6		
Aroclor-1242	B		ND					9.6		
Aroclor-1248	B		ND					9.6		
Aroclor-1254	B	254453315001	ND					9.6		?v
Aroclor-1254 Peak # 1.....	B	254453315001		1.81	0.92	66%				
Aroclor-1254 Peak # 2.....	B	254453315001		0.25	ND					
Aroclor-1254 Peak # 3.....	B	254453315001		2.69	ND					
Aroclor-1254 Peak # 4	B	254453315001		ND	0.24					
Aroclor-1254 Peak # 5.....	B	254453315001		4.21	ND					
Aroclor-1260	B	254452018001	ND					9.6		
Aroclor-1260 Peak # 1	B	254452018001		ND	1.43					
Aroclor-1260 Peak # 2.....	B	254452018001		5.22	0.36	174%				
Aroclor-1260 Peak # 3	B	254452018001		ND	ND					
Aroclor-1260 Peak # 4	B	254452018001		ND	0.19					
Aroclor-1260 Peak # 5	B	254452018001		ND	ND					

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	254452018001	33.31	30.47	91	65-135	
Decachlorobiphenyl	B	254452018001	33.31	39.13	117	65-135	>c+

Not reposed
See GCOC_334.015
Batch 96948
mcs 12/29/04

+=high bias >=closing ?=missing c=CCV v=ICV out

Analyst: [signature] Date: 11/29/04 Reviewer: mcs Date: 12/29/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 50

Date : 11/29/04 12:27:27 PM
Data Acquisition Time : 11/24/04 9:22:07 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a050p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.034	154583.00	50.6057	0.666	1	33.71	6.74
Aroclor-1016	12.352	299.50	0.9935	0.666	1	0.66	0.13
Aroclor-1254	13.752	147.50	0.0001	0.666	1	0.00	0.00
Aroclor-1260	15.902	316.00	0.5672	0.666	1	0.38	0.08
Decachlorobiphenyl	21.801	90206.50	70.4529	0.666	1	46.94	9.39
		245552.50	122.6195			81.69	16.34

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.125	0.00	0.0000	0.666	1	0.00	0.00
PCB1016#2	11.920	0.00	0.0000	0.666	1	0.00	0.00
PCB1016#3	12.352	299.50	8.2910	0.666	1	5.52	1.10
PCB1016#4	12.830	0.00	0.0000	0.666	1	0.00	0.00
PCB1016#5	13.051	0.00	0.0000	0.666	1	0.00	0.00
		299.50	8.2910			5.52	1.10

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.752	100.00	1.3757	0.666	1	0.92	0.18
PCB1254#2	14.437	0.00	0.0000	0.666	1	0.00	0.00
PCB1254#3	15.150	0.00	0.0000	0.666	1	0.00	0.00
PCB1254#4	15.388	47.50	0.3669	0.666	1	0.24	0.05
PCB1254#5	16.152	0.00	0.0000	0.666	1	0.00	0.00
		147.50	1.7427			1.16	0.23

11/29/04

Group Report For : Aroclor-1260

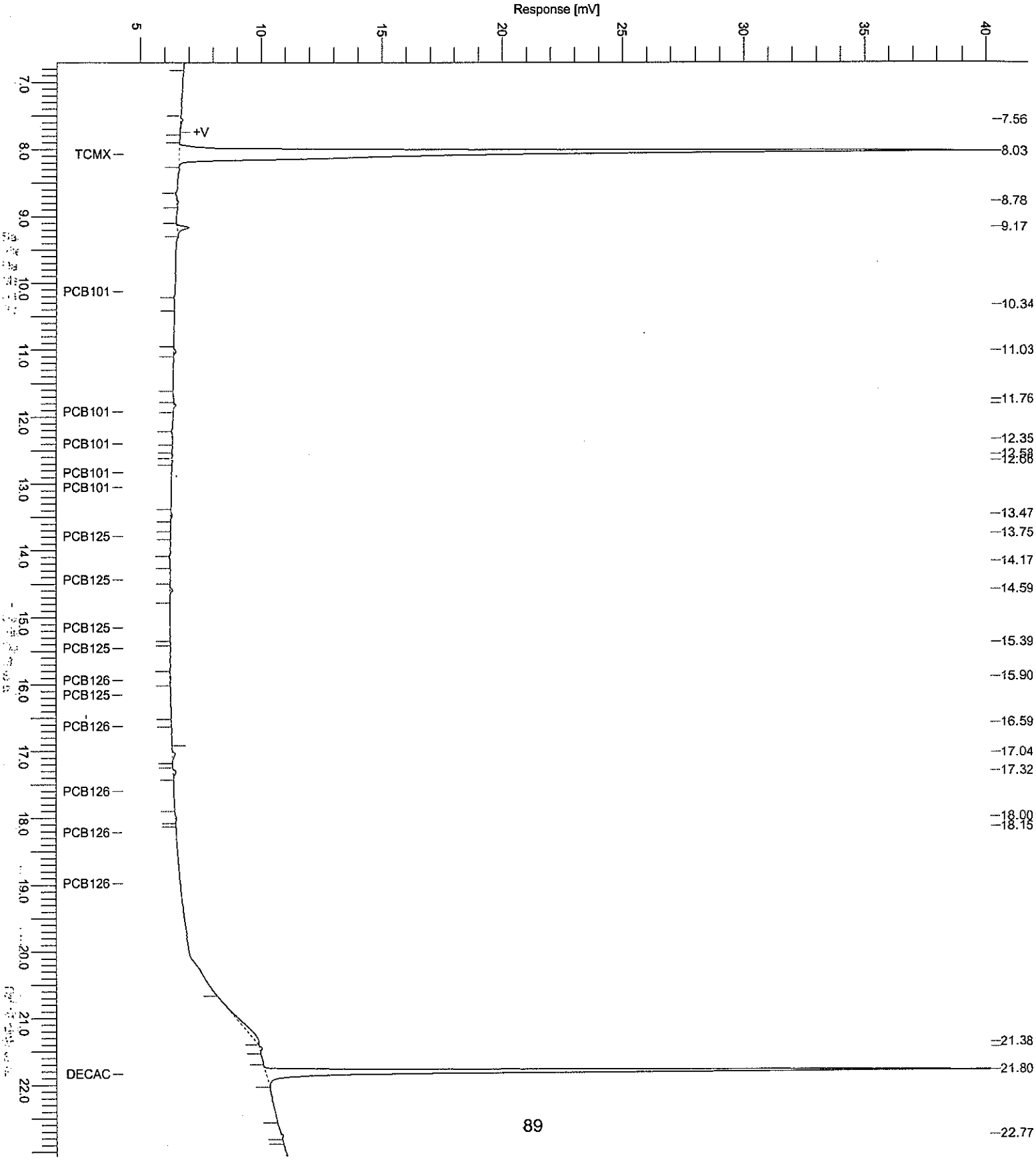
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.902	214.00	2.1431	0.666	1	1.43	0.29
PCB1260#2	16.590	80.00	0.5341	0.666	1	0.36	0.07
PCB1260#3	17.599	0.00	0.0000	0.666	1	0.00	0.00
PCB1260#4	18.150	22.00	0.2850	0.666	1	0.19	0.04
PCB1260#5	18.973	0.00	0.0000	0.666	1	0.00	0.00
		316.00	2.9621			1.97	0.39

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\328a050p.TX0

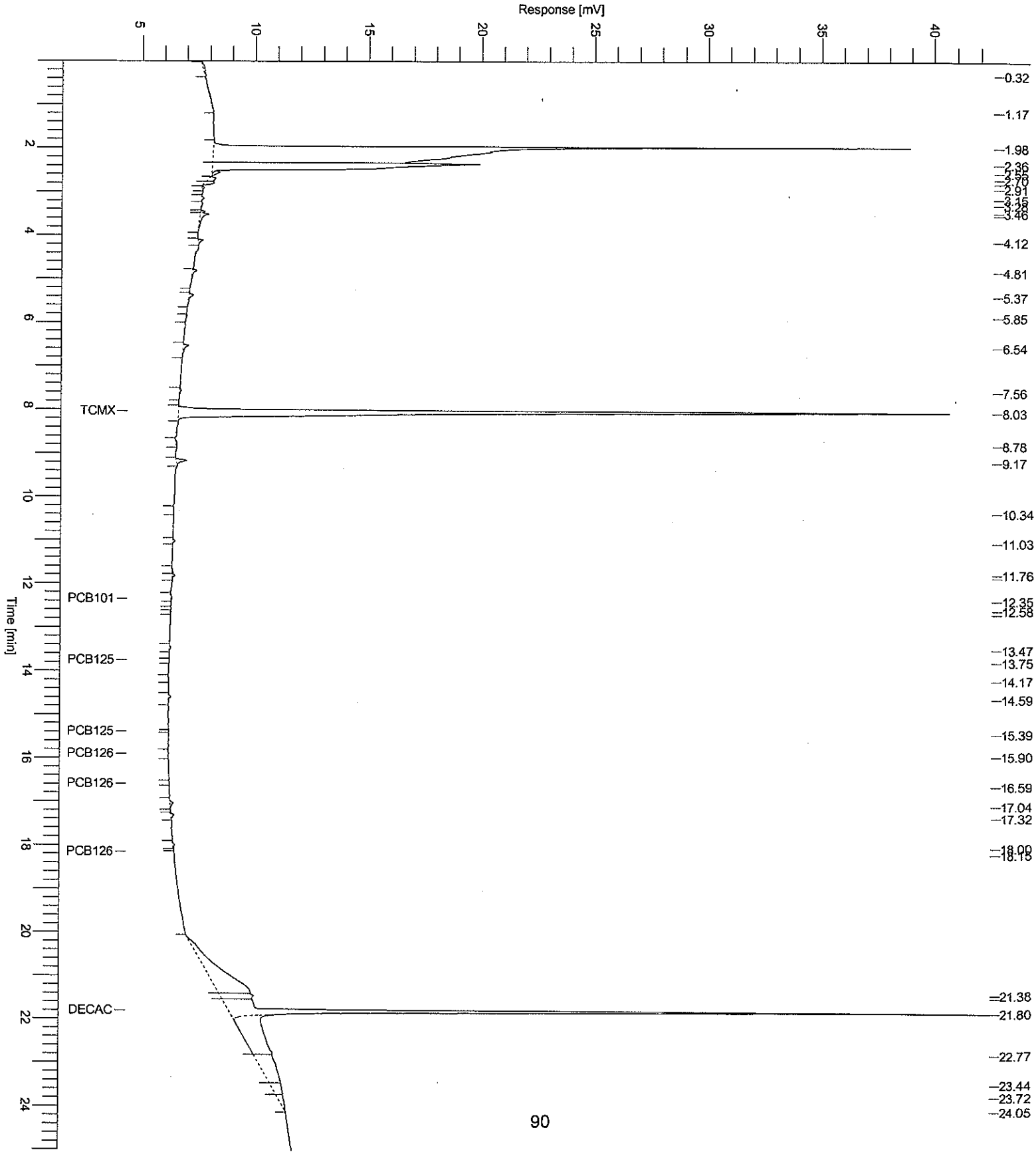
GC22 Rtx-CLPesticides

ample Name : 176248-005,96828 Sample #: 96828 Page 1 of 1
eName : G:\gc22\CHa\328a050.raw
ate : 11/29/04 12:27:31 PM
ethod : Time of Injection: 11/24/04 9:22:07 PM
tart Time : 6.70 min End Time : 23.07 min Low Point : 4.29 mV High Point : 40.24 mV
lot Offset: 4.29 mV Plot Scale: 35.9 mV



GC22 Rtx-CLPesticides

Sample Name : 176248-005,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHa\328a050.raw
Date : 11/29/04 11:39:49 AM
Method : gc22ins Time of Injection: 11/24/04 9:22:07 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.39 mV High Point : 42.57 mV
Scale Factor: 1.0 Plot Offset: 4.39 mV Plot Scale: 38.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96828
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 50

Date : 11/29/04 11:38:31 AM
Data Acquisition Time : 11/24/04 9:22:07 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b050.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.785	135300.00	45.7349	0.666	1	30.47	6.09
Aroclor-1016	10.766	353.08	0.7666	0.666	1	0.51	0.10
Aroclor-1254	14.472	813.72	0.0008	0.666	1	0.00	0.00
Aroclor-1260	17.281	921.87	1.6309	0.666	1	1.09	0.22
Decachlorobiphenyl	22.762	82869.00	58.7326	0.666	1	39.13	7.83
		220257.68	106.8658			71.20	14.24

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.766	290.08	5.7194	0.666	1	3.81	0.76
PCB1016#2	11.303	63.00	0.8725	0.666	1	0.58	0.12
PCB1016#3	11.971	0.00	0.0000	0.666	1	0.00	0.00
PCB1016#4	12.443	0.00	0.0000	0.666	1	0.00	0.00
PCB1016#5	13.722	0.00	0.0000	0.666	1	0.00	0.00
		353.08	6.5919			4.39	0.88

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.472	235.50	2.7164	0.666	1	1.81	0.36
PCB1254#2	15.016	44.00	0.3760	0.666	1	0.25	0.05
PCB1254#3	15.765	340.22	4.0383	0.666	1	2.69	0.54
PCB1254#4	16.023	0.00	0.0000	0.666	1	0.00	0.00
PCB1254#5	16.312	194.00	6.3147	0.666	1	4.21	0.84
		813.72	13.4454			8.96	1.79

Group Report For : Aroclor-1260

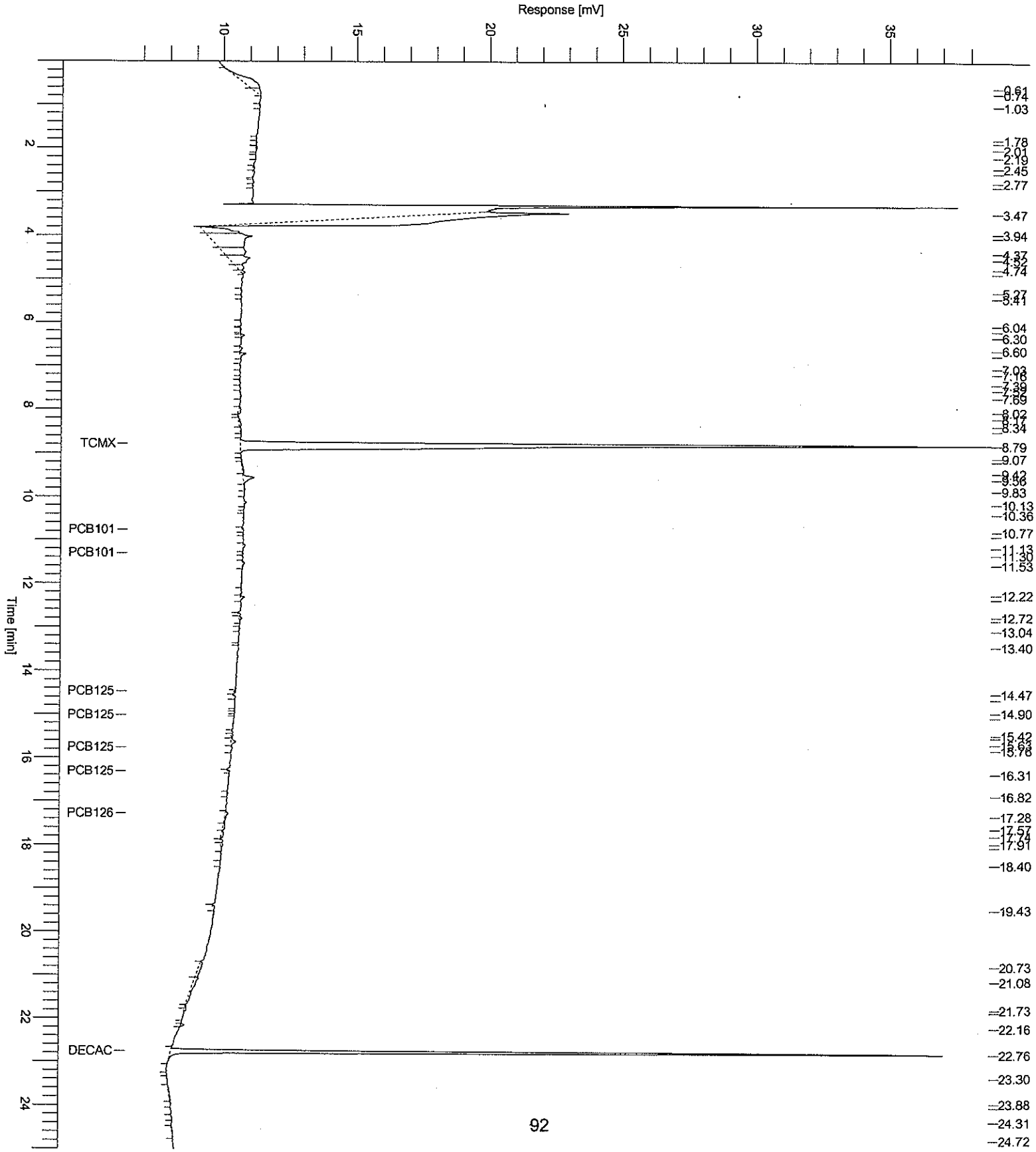
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.628	0.00	0.0000	0.666	1	0.00	0.00
PCB1260#2	17.281	921.87	7.8326	0.666	1	5.22	1.04
PCB1260#3	18.324	0.00	0.0000	0.666	1	0.00	0.00
PCB1260#4	18.922	0.00	0.0000	0.666	1	0.00	0.00
PCB1260#5	19.579	0.00	0.0000	0.666	1	0.00	0.00
		921.87	7.8326			5.22	1.04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b050.TX0

GC22 Rtx-CLPesticides II

Sample Name : 176248-005,96828 Sample #: 96828 Page 1 of 1
FileName : G:\gc22\CHb\328b050
Date : 11/29/04 11:38:33 AM
Method : gc22ins Time of Injection: 11/24/04 9:22:07 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 6.45 mV High Point : 38.83 mV
Scale Factor: 1.0 Plot Offset: 6.45 mV Plot Scale: 32.4 mV



QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22
Seqnum : 254473018035
Filename : 328_035
IDF : 1.0

Samplenum: QC273646
Matrix : Soil
Batchnum : 96828

Cident :
Acctnum : QC
Injected : 24-NOV-2004 14:05
Units : ug/Kg

Prep: 15.12 g --> 10.0 ml = 0.6614 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	Flags
Aroclor-1016	B	254452018001	ND					9.5	
Aroclor-1016 Peak # 1.....	B	254452018001		0.65	ND				
Aroclor-1016 Peak # 2	B	254452018001		ND	ND				
Aroclor-1016 Peak # 3	B	254452018001		ND	3.23				
Aroclor-1016 Peak # 4	B	254452018001		ND	ND				
Aroclor-1016 Peak # 5	B	254452018001		ND	ND				
Aroclor-1221	B		ND					19	
Aroclor-1232	B		ND					9.5	
Aroclor-1242	B		ND					9.5	
Aroclor-1248	B		ND					9.5	
Aroclor-1254	B	254453315001	ND					9.5	?v
Aroclor-1254 Peak # 1.....	B	254453315001		0.60	0.81	30%			
Aroclor-1254 Peak # 2	B	254453315001		ND	ND				
Aroclor-1254 Peak # 3	B	254453315001		ND	ND				
Aroclor-1254 Peak # 4	B	254453315001		ND	71.39				
Aroclor-1254 Peak # 5	B	254453315001		ND	ND				
Aroclor-1260.....	B	254452018001	54		0.068	200%		9.5	x
Aroclor-1260 Peak # 1.....	B	254452018001		9.48	ND				
Aroclor-1260 Peak # 2	B	254452018001		ND	0.34				
Aroclor-1260 Peak # 3.....	B	254452018001		0.72	ND				
Aroclor-1260 Peak # 4	B	254452018001		ND	ND				
Aroclor-1260 Peak # 5.....	B	254452018001		261.84	ND				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	254452018001	33.07	26.91	81	62-140	
Decachlorobiphenyl	B	254452018001	33.07	33.84	102	48-149	

11/29/04

?=missing v=ICV out x=false positive

11/29/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc273646,96828,mb
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 11/29/04 12:05:39 PM
Data Acquisition Time : 11/24/04 2:05:38 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a035p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.072	131664.00	43.1028	0.661	1	28.51	5.70
Aroclor-1016	12.406	176.50	0.5855	0.661	1	0.39	0.08
Aroclor-1254	15.392	14061.74	0.0141	0.661	1	0.01	0.00
Aroclor-1260	16.599	76.84	0.1379	0.661	1	0.09	0.02
Decachlorobiphenyl	21.818	68337.22	53.3726	0.661	1	35.30	7.06
		214316.30	97.2128			64.29	12.86

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.125	0.00	0.0000	0.661	1	0.00	0.00
PCB1016#2	11.920	0.00	0.0000	0.661	1	0.00	0.00
PCB1016#3	12.406	176.50	4.8860	0.661	1	3.23	0.65
PCB1016#4	12.830	0.00	0.0000	0.661	1	0.00	0.00
PCB1016#5	13.051	0.00	0.0000	0.661	1	0.00	0.00
		176.50	4.8860			3.23	0.65

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.790	88.50	1.2175	0.661	1	0.81	0.16
PCB1254#2	14.437	0.00	0.0000	0.661	1	0.00	0.00
PCB1254#3	15.150	0.00	0.0000	0.661	1	0.00	0.00
PCB1254#4	15.392	13973.24	107.9372	0.661	1	71.39	14.28
PCB1254#5	16.152	0.00	0.0000	0.661	1	0.00	0.00
		14061.74	109.1547			72.19	14.44

11/29/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.933	0.00	0.0000	0.661	1	0.00	0.00
PCB1260#2	16.599	76.84	0.5130	0.661	1	0.34	0.07
PCB1260#3	17.599	0.00	0.0000	0.661	1	0.00	0.00
PCB1260#4	18.217	0.00	0.0000	0.661	1	0.00	0.00
PCB1260#5	18.973	0.00	0.0000	0.661	1	0.00	0.00
		76.84	0.5130			0.34	0.07

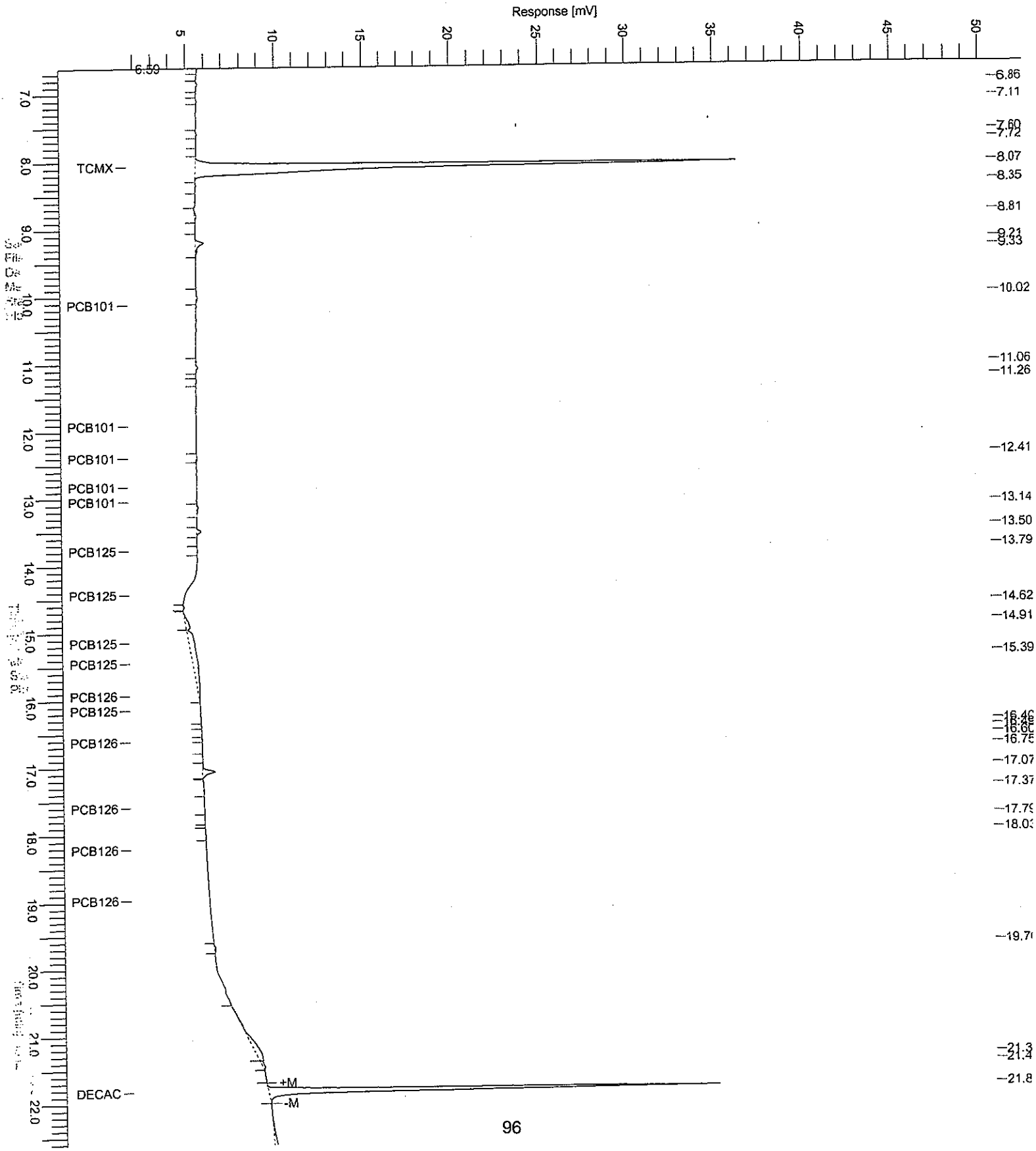
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\328a035p.TX0

Sample Name : qc273646,96828,mb
FileName : G:\gc22\cha\328a035.raw
Date : 11/29/04 12:05:44 PM
Method :
Start Time : 6.62 min
Plot Offset: 1.64 mV

Sample #: 96828

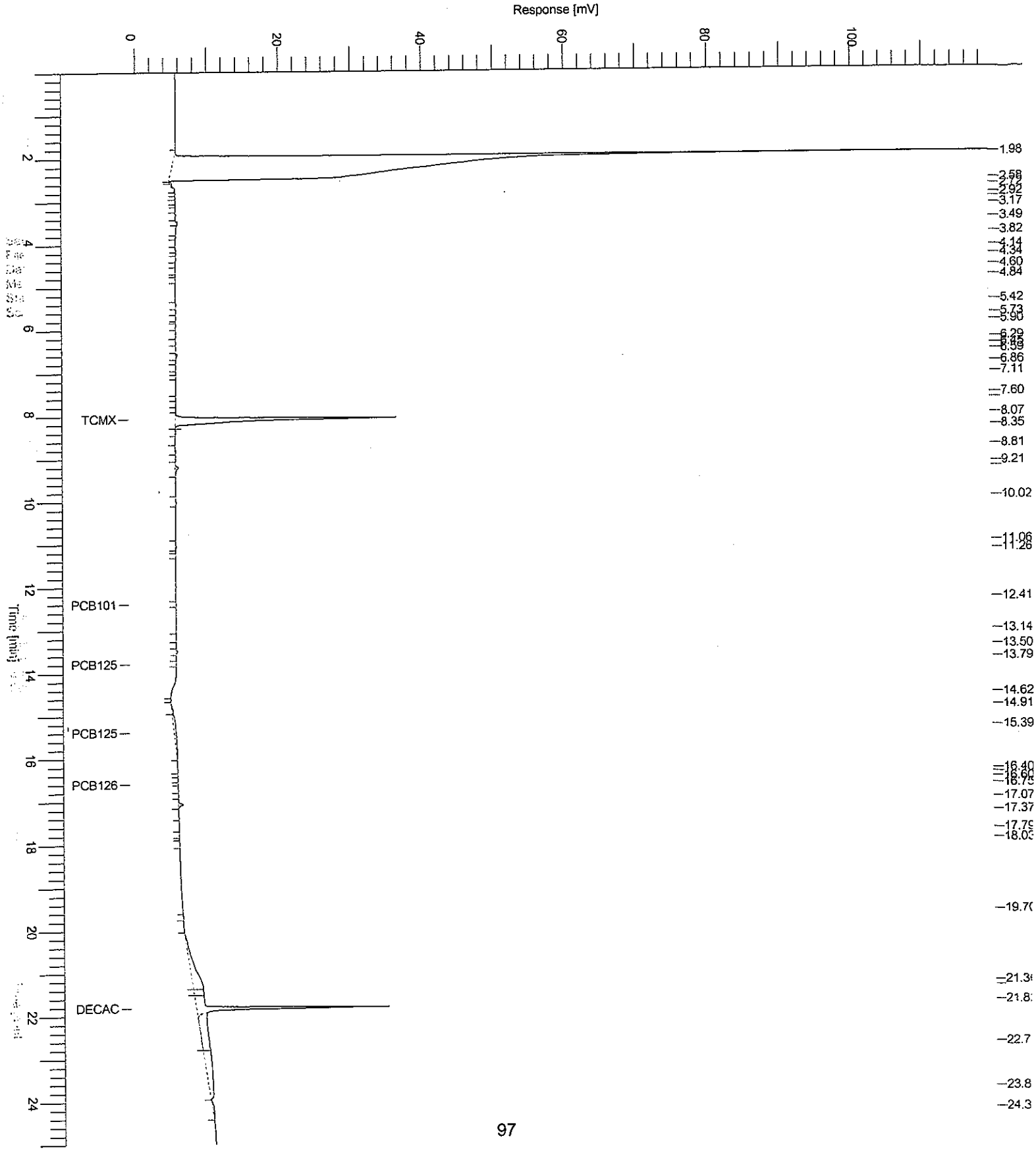
Time of Injection: 11/24/04 2:05:38 PM
End Time : 22.62 min
Plot Scale: 48.9 mV
Low Point : 1.64 mV
High Point : 50.54 mV



Sample Name : qc273646,96828,mb
FileName : G:\gc22\cha\328a035.raw
Date : 11/29/04 12:03:40 PM
Method : gc22ins
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.05 mV High Point : 119.38 mV
Scale Factor: 1.0 Plot Offset: -1.05 mV Plot Scale: 120.4 mV

Sample #: 96828 Page 1 of 1

Time of Injection: 11/24/04 2:05:38 PM



Software Version : 6.1.2.0.1:D19
Sample Name : qc273646,96828,mb
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 11/29/04 12:04:04 PM
Data Acquisition Time : 11/24/04 2:05:38 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b035.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.806	120362.50	40.6856	0.661	1	26.91	5.38
Aroclor-1016	10.751	50.00	0.1086	0.661	1	0.07	0,01
Aroclor-1254	14.436	78.00	0.0001	0.661	1	0.00	0.00
Aroclor-1260	19.581	71708.26	126.8608	0.661	1	83.90	16.78
Decachlorobiphenyl	22.779	72190.00	51.1639	0.661	1	33.84	6.77
		264388.76	218.8191			144.72	28.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.751	50.00	0.9858	0.661	1	0.65	0.13
PCB1016#2	11.299	0.00	0.0000	0.661	1	0.00	0.00
PCB1016#3	11.971	0.00	0.0000	0.661	1	0.00	0.00
PCB1016#4	12.443	0.00	0.0000	0.661	1	0.00	0.00
PCB1016#5	13.722	0.00	0.0000	0.661	1	0.00	0.00
		50.00	0.9858			0.65	0.13

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.436	78.00	0.8997	0.661	1	0.60	0.12
PCB1254#2	15.068	0.00	0.0000	0.661	1	0.00	0.00
PCB1254#3	15.770	0.00	0.0000	0.661	1	0.00	0.00
PCB1254#4	16.023	0.00	0.0000	0.661	1	0.00	0.00
PCB1254#5	16.330	0.00	0.0000	0.661	1	0.00	0.00
		78.00	0.8997			0.60	0.12

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.665	1642.00	14.3406	0.661	1	9.48	1.90
PCB1260#2	17.209	0.00	0.0000	0.661	1	0.00	0.00
PCB1260#3	18.331	81.00	1.0897	0.661	1	0.72	0.14
PCB1260#4	18.922	0.00	0.0000	0.661	1	0.00	0.00
PCB1260#5	19.581	69985.26	395.9008	0.661	1	261.84	52.37
		71708.26	411.3311			272.04	54.41

----------CURTIS & TOMPKINS LTD----------

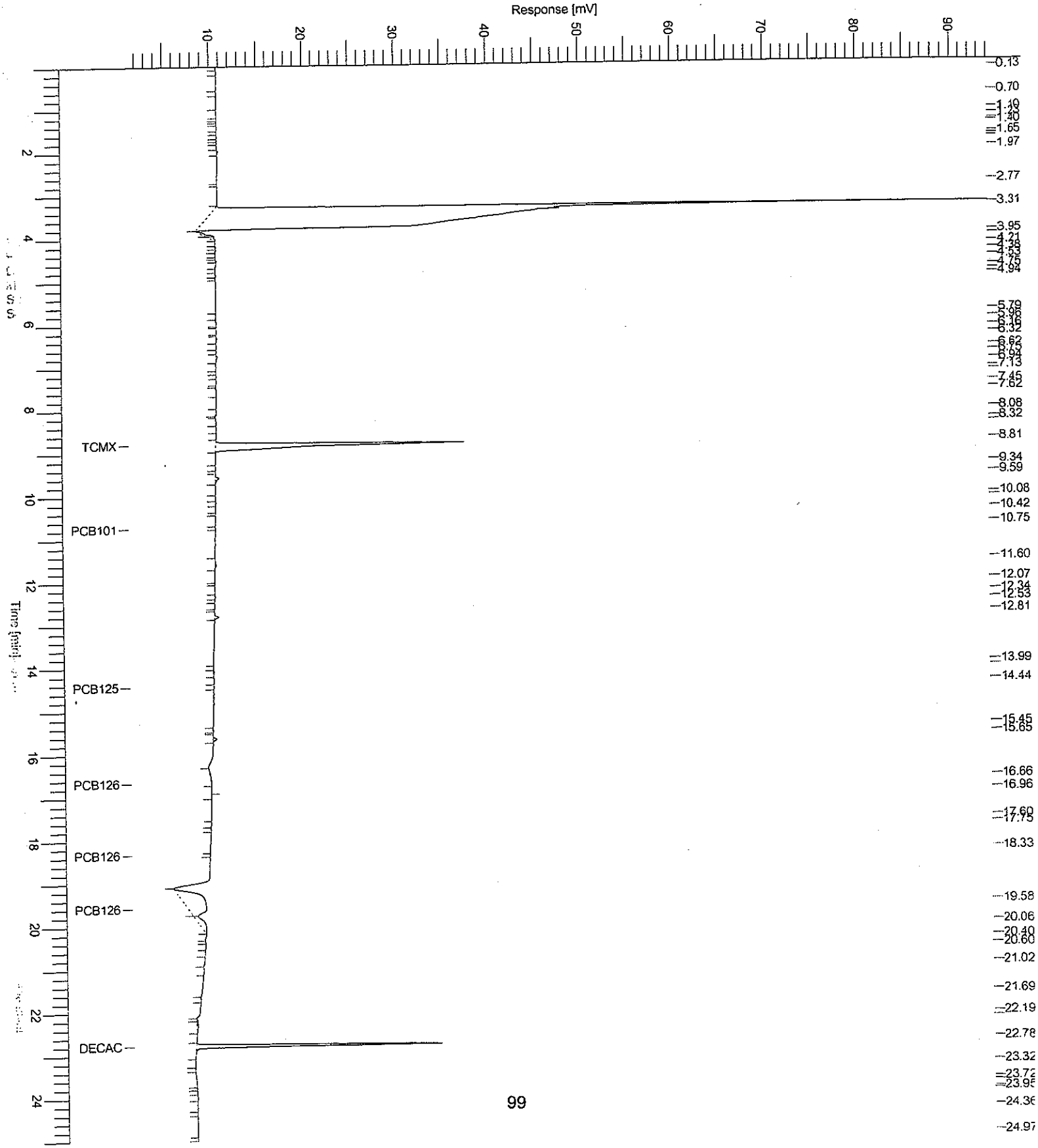
Report stored in ASCII file: G:\gc22\CHB\328b035.TX0

GC22 Rtx-CLPesticides II

Sample Name : qc273646,96828,mb
FileName : G:\gc22\chb\328b035
Date : 11/29/04 12:04:06 PM
Method : gc22ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96828

Time of Injection: 11/24/04 2:05:38 PM
End Time : 25.00 min
Low Point : 1.17 mV
High Point : 94.12 mV
Plot Offset: 1.17 mV
Plot Scale: 93.0 mV



BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204481766023
Filename : 334_023
IDF : 1.0

Samplenum: QC274146
Matrix : Soil
Batchnum : 96948

Cident :
Acctnum : QC
Injected : 30-NOV-2004 03:51
Units : ug/Kg

Prep: 15.23 g --> 10.0 ml = 0.6566 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result		RPD	RL	Flags
Aroclor-1016	A	204456284001	ND				9.5	
Aroclor-1016 Peak # 1	A	204456284001		ND	ND			
Aroclor-1016 Peak # 2	A	204456284001		ND	ND			
Aroclor-1016 Peak # 3	A	204456284001		ND	ND			
Aroclor-1016 Peak # 4.....	A	204456284001		4.97	9.79	65%		
Aroclor-1016 Peak # 5	A	204456284001		ND	0.96			
Aroclor-1221	A		ND				19	
Aroclor-1232	A		ND				9.5	
Aroclor-1242	A		ND				9.5	
Aroclor-1248	A		ND				9.5	
Aroclor-1254	A	204461493001	ND				9.5	?v
Aroclor-1254 Peak # 1.....	A	204461493001		12.08	3.97	101%		
Aroclor-1254 Peak # 2.....	A	204461493001		8.12	0.19	191%		
Aroclor-1254 Peak # 3	A	204461493001		ND	0.42			
Aroclor-1254 Peak # 4	A	204461493001		ND	ND			
Aroclor-1254 Peak # 5	A	204461493001		ND	0.93			
Aroclor-1260	A	204456284001	ND				9.5	
Aroclor-1260 Peak # 1	A	204456284001		ND	ND			
Aroclor-1260 Peak # 2	A	204456284001		ND	ND			
Aroclor-1260 Peak # 3.....	A	204456284001		2.24	0.68	106%		
Aroclor-1260 Peak # 4	A	204456284001		ND	0.99			
Aroclor-1260 Peak # 5.....	A	204456284001		0.41	ND			

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	204456284001	32.83	33.24	101	62-140	<c-
Decachlorobiphenyl	A	204456284001	32.83	40.23	123	48-149	

12/1/04

11/30/04

-=low bias <=opening ?=missing c=CCV v=ICV out

Software Version : 6.1.2.0.1:D19
Sample Name : qc274146,96948,mb
Instrument Name : gc06
Rack/Vial : 1/23
Sample Amount : 1.000000
Cycle : 23

Date : 11/30/04 12:38:37 PM
Data Acquisition Time : 11/30/04 3:51:15 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a023p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	565432.97	50.62	0.6566	1	33.24	6.65
Aroclor-1016	11.394	1746.81	1.09	0.6566	1	0.71	0.14
Aroclor-1254	13.888	14778.99	0.01	0.6566	1	0.01	0.00
Aroclor-1260	18.347	1880.34	0.82	0.6566	1	0.54	0.11
Decachlorobiphenyl	21.667	498976.12	61.27	0.6566	1	40.23	8.05
		1082815.23	113.81			74.73	14.95

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	0.6566	1	0.00	0.00
PCB1016#2	9.623	0.00	0.00	0.6566	1	0.00	0.00
PCB1016#3	10.860	0.00	0.00	0.6566	1	0.00	0.00
PCB1016#4	11.394	1746.81	7.58	0.6566	1	4.97	0.99
PCB1016#5	11.841	0.00	0.00	0.6566	1	0.00	0.00
		1746.81	7.58			4.97	0.99

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.229	6660.58	18.40	0.6566	1	12.08	2.42
PCB1254#2	13.888	8118.41	12.36	0.6566	1	8.12	1.62
PCB1254#3	14.562	0.00	0.00	0.6566	1	0.00	0.00
PCB1254#4	15.547	0.00	0.00	0.6566	1	0.00	0.00
PCB1254#5	15.999	0.00	0.00	0.6566	1	0.00	0.00
		14778.99	30.76			20.20	4.04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.966	0.00	0.00	0.6566	1	0.00	0.00
PCB1260#2	16.299	0.00	0.00	0.6566	1	0.00	0.00
PCB1260#3	16.937	1300.58	3.41	0.6566	1	2.24	0.45
PCB1260#4	17.559	0.00	0.00	0.6566	1	0.00	0.00
PCB1260#5	18.347	579.76	0.63	0.6566	1	0.41	0.08
		1880.34	4.04			2.65	0.53

11/30/04

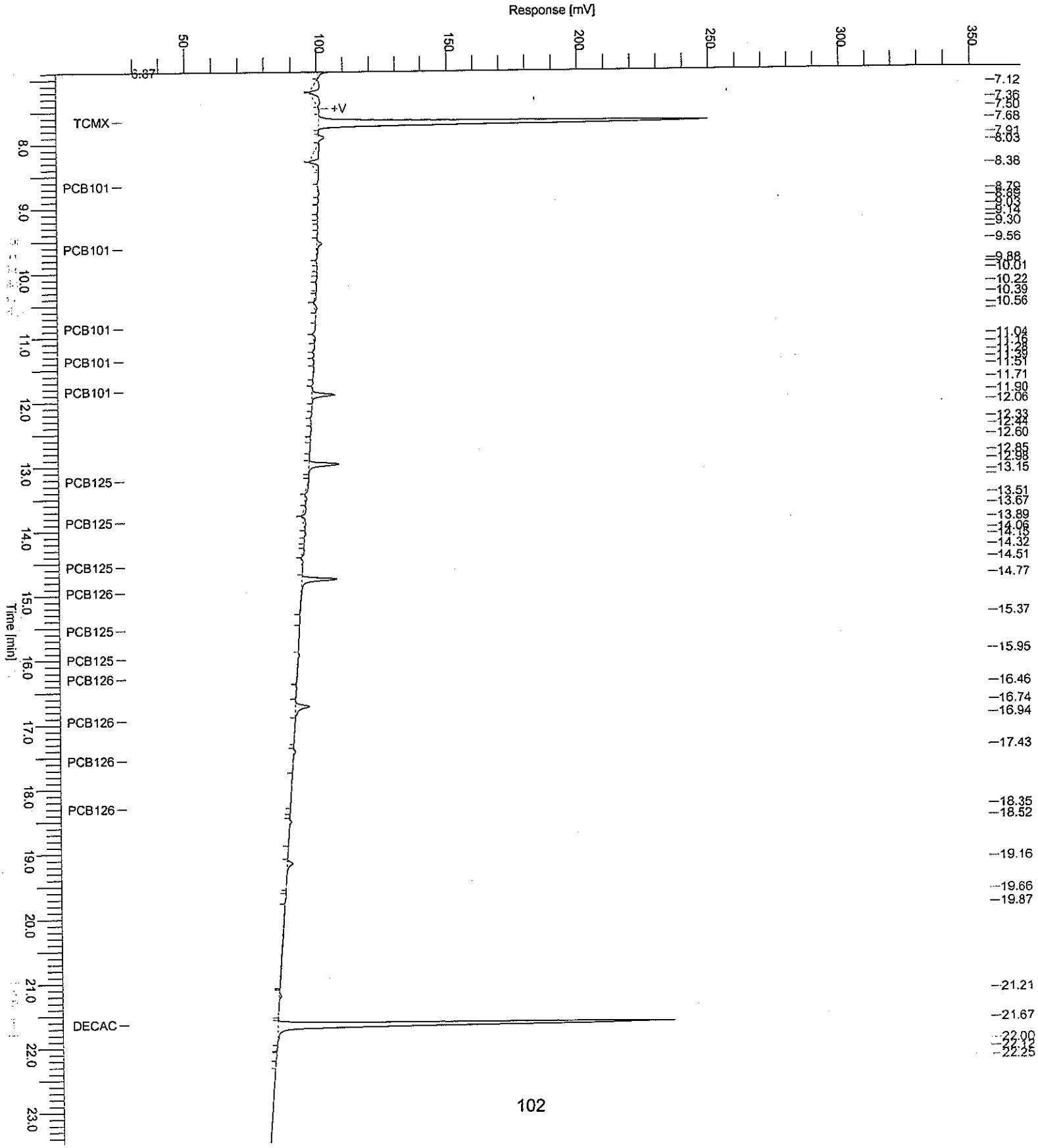
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a023p.TX0

GC 06 Rtx-CLPesticides

ample Name : qc274146,96948,mb
leName : G:\gc06\cha\334a023.raw
ate : 11/30/04 12:38:41 PM
ethod :
tart Time : 6.89 min
lot Offset: 26.08 mV

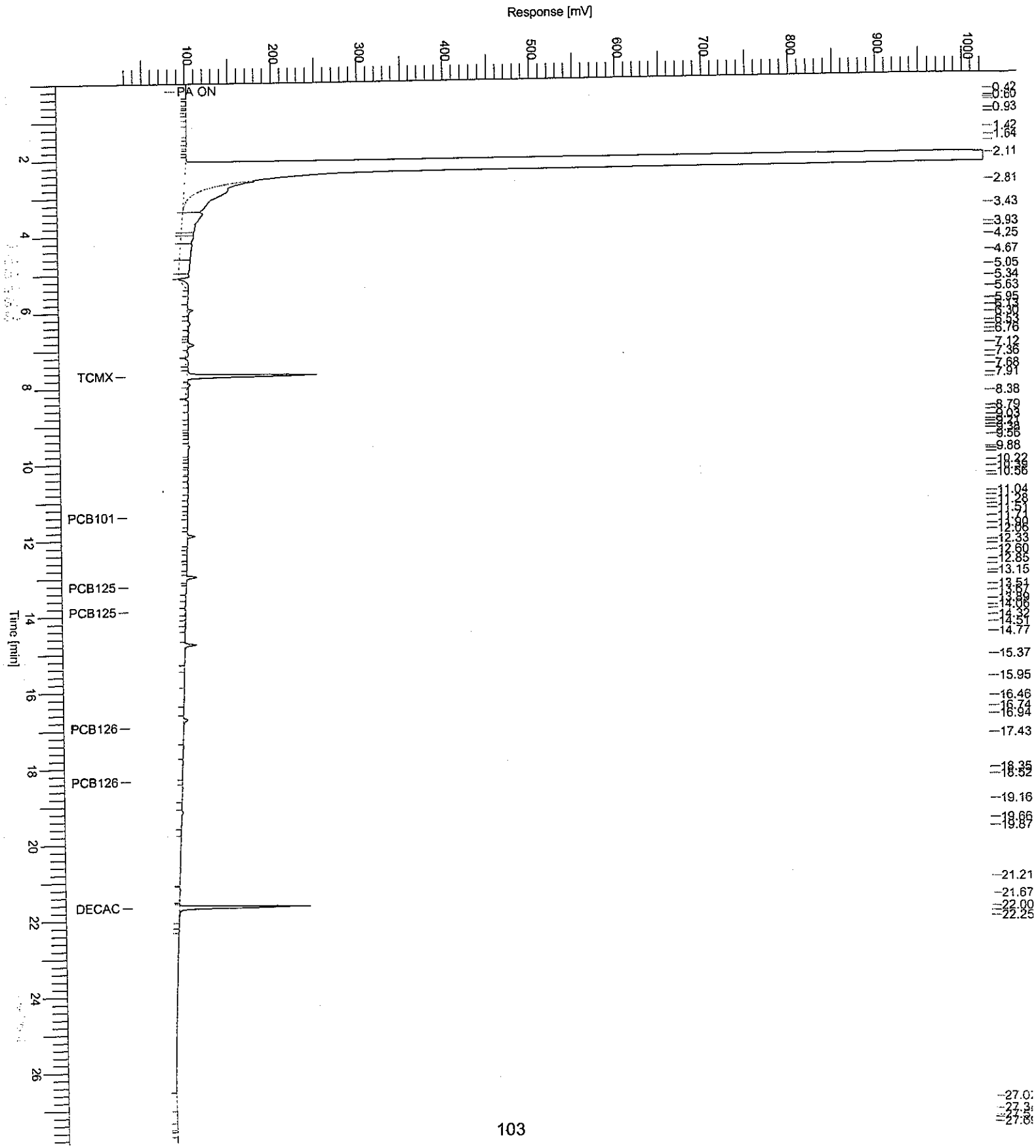
Sample #: 96948
Page 1 of 1
Time of Injection: 11/30/04 3:51:15 AM
End Time : 23.49 min
Low Point : 26.08 mV
High Point : 355.84 mV
Plot Scale: 329.8 mV



Sample Name : qc274146,96948,mb
FileName : G:\gc06\cha\334a023.raw
Date : 11/30/04 12:29:28 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96948

Time of Injection: 11/30/04 3:51:15 AM
End Time : 27.88 min
Low Point : 28.58 mV
High Point : 1024.00 mV
Plot Offset: 28.58 mV
Plot Scale: 995.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274146,96948,mb
Instrument Name : gc06
Rack/Vial : 1/23
Sample Amount : 1.000000
Cycle : 23

Date : 11/30/04 12:47:31 PM
Data Acquisition Time : 11/30/04 3:51:15 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b023p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.507	1019340.12	51.50	0.6566	1	33.82	6.76
Aroclor-1016	9.918	6989.17	2.02	0.6566	1	1.33	0.27
Aroclor-1254	11.915	6149.11	0.01	0.6566	1	0.00	0.00
Aroclor-1260	16.188	1751.28	0.35	0.6566	1	0.23	0.05
Decachlorobiphenyl	20.653	588877.66	62.49	0.6566	1	41.03	8.21
		1623107.34	116.37			76.41	15.28

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.351	0.00	0.00	0.6566	1	0.00	0.00
PCB1016#2	8.814	0.00	0.00	0.6566	1	0.00	0.00
PCB1016#3	9.465	0.00	0.00	0.6566	1	0.00	0.00
PCB1016#4	9.918	6265.04	14.91	0.6566	1	9.79	1.96
PCB1016#5	10.794	724.13	1.46	0.6566	1	0.96	0.19
		6989.17	16.37			10.75	2.15

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.915	4975.94	6.05	0.6566	1	3.97	0.79
PCB1254#2	12.483	321.38	0.29	0.6566	1	0.19	0.04
PCB1254#3	13.172	456.31	0.64	0.6566	1	0.42	0.08
PCB1254#4	13.387	0.00	0.00	0.6566	1	0.00	0.00
PCB1254#5	13.685	395.48	1.42	0.6566	1	0.93	0.19
		6149.11	8.39			5.51	1.10

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.554	0.00	0.00	0.6566	1	0.00	0.00
PCB1260#2	15.240	0.00	0.00	0.6566	1	0.00	0.00
PCB1260#3	15.637	688.93	1.04	0.6566	1	0.68	0.14
PCB1260#4	16.188	1062.35	1.51	0.6566	1	0.99	0.20
PCB1260#5	16.868	0.00	0.00	0.6566	1	0.00	0.00
		1751.28	2.55			1.67	0.33

----------CURTIS & TOMPKINS LTD----------

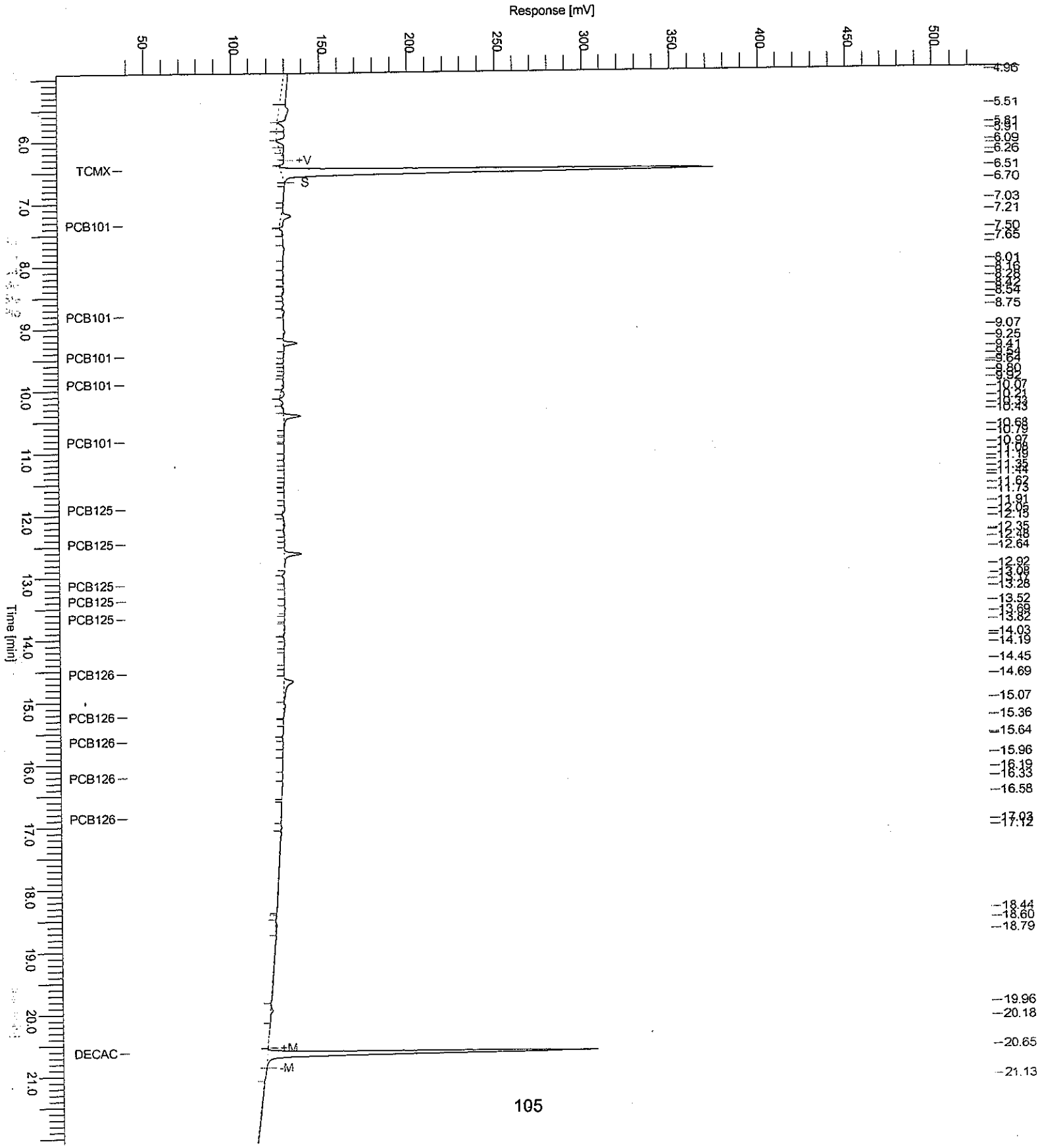
Report stored in ASCII file: G:\gc06\chb\334b023p.TX0

GC 06 Rtx-5

ample Name : qc274146,96948,mb
ileName : G:\gc06\chb\334b023.raw
ate : 11/30/04 12:47:35 PM
lethod :
tart Time : 4.92 min
lot Offset: 38.01 mV

Sample #: 96948

Time of Injection: 11/30/04 3:51:15 AM
End Time : 22.09 min
Low Point : 38.01 mV
High Point : 529.54 mV
Plot Scale: 491.5 mV



GC 06 Rtx-5

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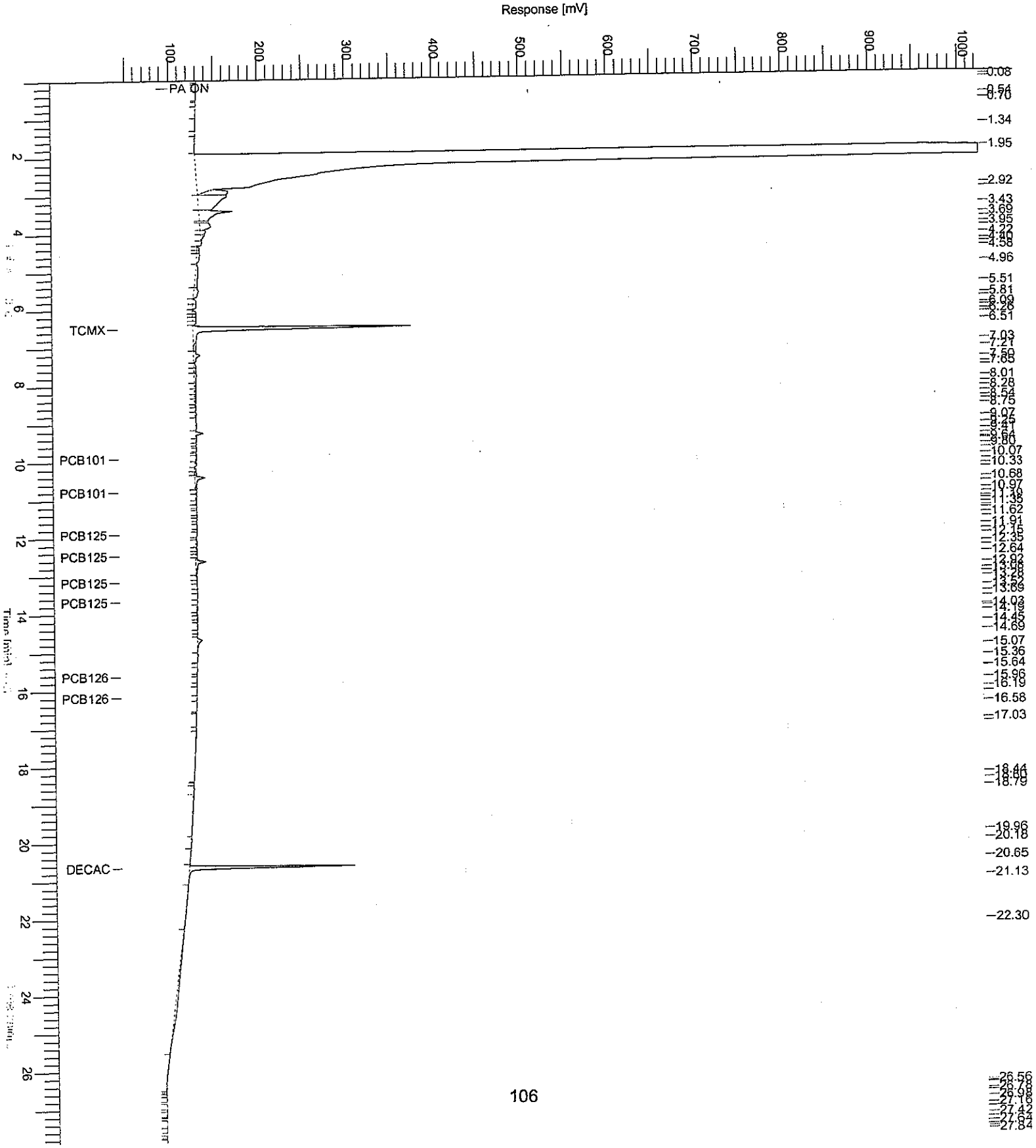
eName : G:\gc06\chb\334b023
te : 11/30/04 12:30:26 PM
thod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 96948

Time of Injection: 11/30/04 3:51:15 AM
End Time : 27.88 min
Low Point : 40.47 mV
High Point : 1024.00 mV
Plot Offset: 40.47 mV
Plot Scale: 983.5 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22
Seqnum : 254473018036
Filename : 328_036
IDF : 1.0
Run type : LCS
Samplenum: QC273647
Matrix : Soil
Batchnum : 96828
Inj : 24-NOV-2004 14:33
Units : ug/Kg

LCS: 14.99 g --> 10.0 ml = 0.6671 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
Aroclor-1016 Peak # 1		ND	A			
Aroclor-1016 Peak # 2		ND	A			
Aroclor-1016 Peak # 3		ND	A			
Aroclor-1016 Peak # 4		ND	A			
Aroclor-1016 Peak # 5		ND	A			
Aroclor-1254	166.8	159.0	B	95	69-143	?v
Aroclor-1254 Peak # 1		158.4	B			
Aroclor-1254 Peak # 2		162.6	B			
Aroclor-1254 Peak # 3		157.8	B			
Aroclor-1254 Peak # 4		161.1	B			
Aroclor-1254 Peak # 5		155.1	B			
Aroclor-1260 Peak # 1		ND	A			
Aroclor-1260 Peak # 2		ND	A			
Aroclor-1260 Peak # 3		ND	A			
Aroclor-1260 Peak # 4		ND	A			
Aroclor-1260 Peak # 5		ND	A			
TCMX	33.36	26.35	B	79	62-140	
Decachlorobiphenyl	33.36	30.03	B	90	48-149	

11/29/04

11/29/04

?=missing v=ICV out
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : qc273647,96828,lcs
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 36

Date : 11/29/04 12:06:42 PM
Data Acquisition Time : 11/24/04 2:33:10 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a036p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.052	128660.00	42.1193	0.667	1	28.10	5.62
Aroclor-1016	12.803	13396.55	44.4375	0.667	1	29.64	5.93
Aroclor-1254	15.458	136427.87	0.1364	0.667	1	0.09	0.02
Aroclor-1260	16.611	43067.13	77.3024	0.667	1	51.57	10.31
Decachlorobiphenyl	21.815	65087.97	50.8349	0.667	1	33.91	6.78
		386639.52	214.8306			143.32	28.66

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.102	649.00	6.1420	0.667	1	4.10	0.82
PCB1016#2	11.897	439.65	7.3799	0.667	1	4.92	0.98
PCB1016#3	12.366	704.00	19.4887	0.667	1	13.00	2.60
PCB1016#4	12.803	8516.51	136.5164	0.667	1	91.07	18.21
PCB1016#5	13.030	3087.39	81.8487	0.667	1	54.60	10.92
		13396.55	251.3756			167.70	33.54

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.787	20107.63	276.6306	0.667	1	184.54	36.91
PCB1254#2	14.445	34403.59	272.2945	0.667	1	181.65	36.33
PCB1254#3	15.152	21723.89	276.3892	0.667	1	184.38	36.88
PCB1254#4	15.458	36046.64	278.4444	0.667	1	185.75	37.15
PCB1254#5	16.155	24146.13	270.3518	0.667	1	180.35	36.07
		136427.87	1374.1104			916.68	183.34

11/29/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.914	12574.09	125.9218	0.667	1	84.00	16.80
PCB1260#2	16.611	24606.54	164.2844	0.667	1	109.60	21.92
PCB1260#3	17.599	0.00	0.0000	0.667	1	0.00	0.00
PCB1260#4	18.195	2110.58	27.3372	0.667	1	18.24	3.65
PCB1260#5	18.955	3775.92	23.4854	0.667	1	15.67	3.13
		43067.13	341.0287			227.50	45.50

----------CURTIS & TOMPKINS LTD----------

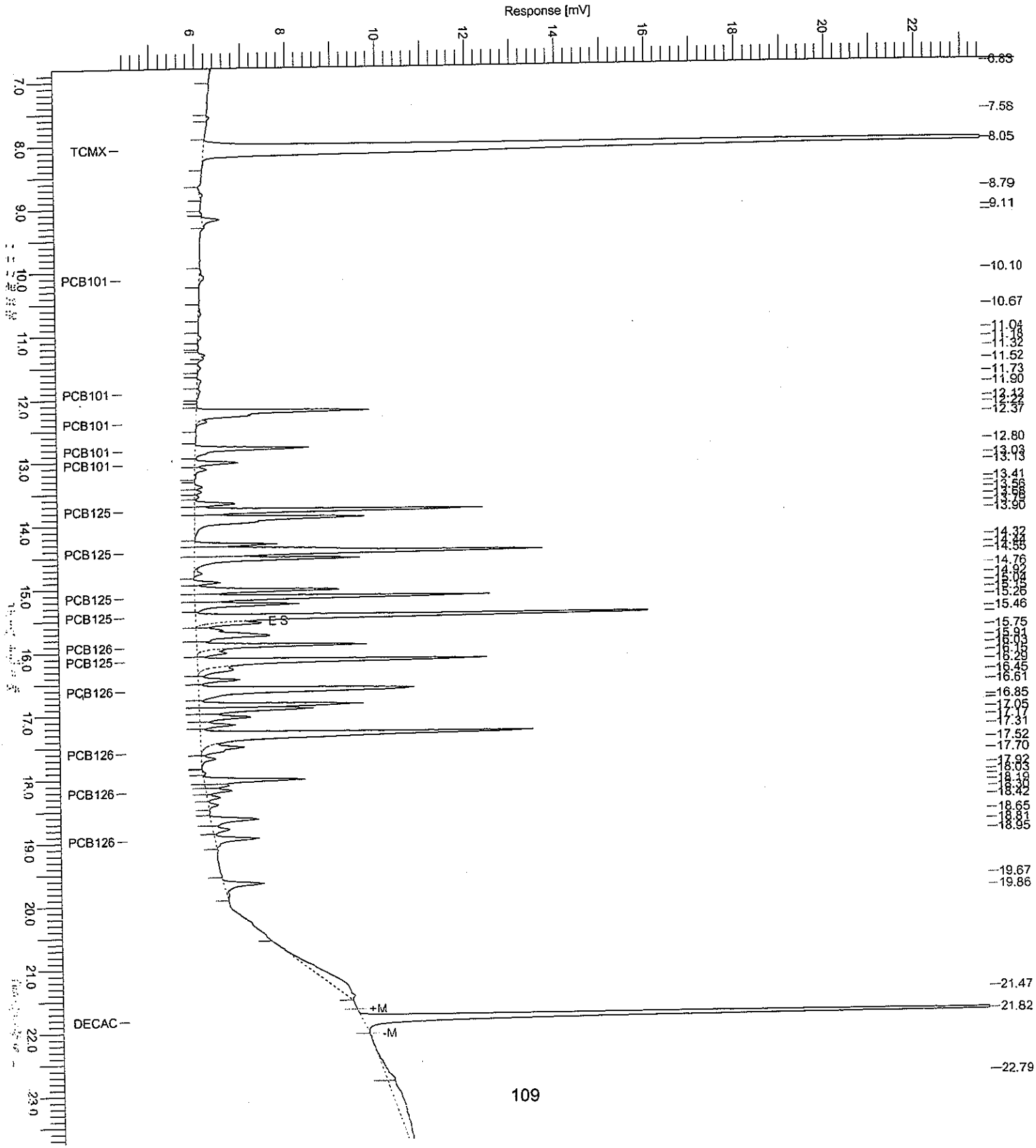
Report stored in ASCII file: G:\gc22\CHA\328a036p.TX0

GC22 Rtx-CLPesticides

ımple Name : qc273647,96828,lcs
eName : G:\gc22\cha\328a036.raw
ıte : 11/29/04 12:06:46 PM
ıthod :
art Time : 6.80 min
ıt Offset: 4.33 mV

Sample #: 96828

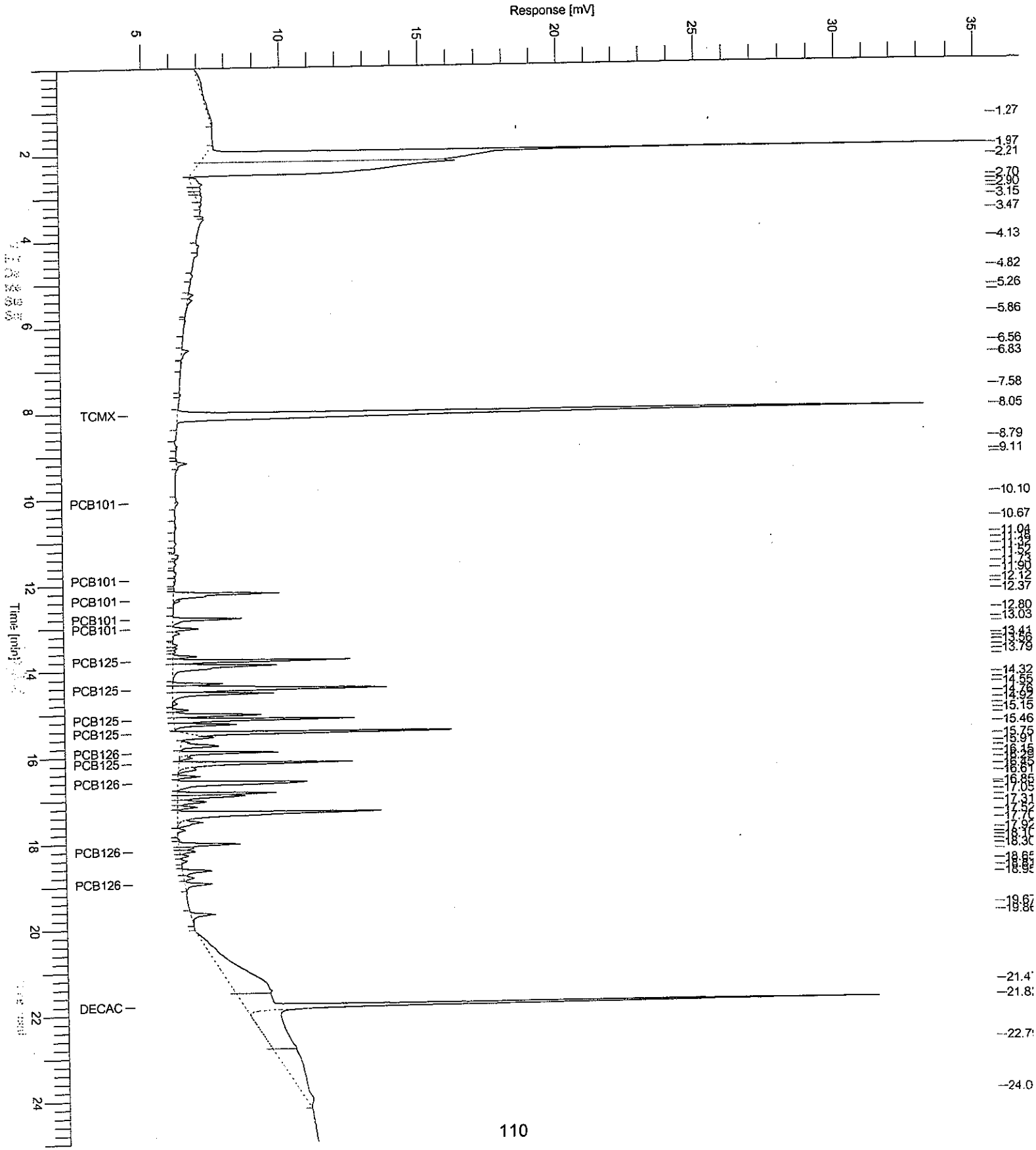
Time of Injection: 11/24/04 2:33:10 PM
End Time : 23.75 min
Low Point : 4.33 mV
High Point : 23.44 mV
Plot Scale: 19.1 mV



Sample Name : qc273647,96828,lcs
FileName : G:\gc22\cha\328a036.raw
Date : 11/29/04 12:03:45 PM
Method : gc22ins
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.41 mV High Point : 35.44 mV
Scale Factor: 1.0 Plot Offset: 4.41 mV Plot Scale: 31.0 mV

Sample #: 96828

Time of Injection: 11/24/04 2:33:10 PM



Software Version : 6.1.2.0.1:D19
Sample Name : qc273647,96828,lcs
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 36

Date : 11/29/04 12:04:09 PM
Data Acquisition Time : 11/24/04 2:33:10 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b036.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.799	116852.52	39.4991	0.667	1	26.35	5.27
Aroclor-1016	13.705	5142.15	11.1647	0.667	1	7.45	1.49
Aroclor-1254	16.014	111480.19	0.1115	0.667	1	0.07	0.01
Aroclor-1260	16.646	52212.67	92.3707	0.667	1	61.62	12.32
Decachlorobiphenyl	22.772	63512.00	45.0135	0.667	1	30.03	6.01
		349199.52	188.1596			125.52	25.10

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.785	431.00	8.4978	0.667	1	5.67	1.13
PCB1016#2	11.277	274.50	3.8016	0.667	1	2.54	0.51
PCB1016#3	11.944	981.00	4.7122	0.667	1	3.14	0.63
PCB1016#4	12.422	243.48	4.1253	0.667	1	2.75	0.55
PCB1016#5	13.705	3212.16	45.6010	0.667	1	30.42	6.08
		5142.15	66.7379			44.52	8.90

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.496	20579.13	237.3691	0.667	1	158.35	31.67
PCB1254#2	15.054	28515.43	243.6841	0.667	1	162.56	32.51
PCB1254#3	15.761	19923.24	236.4793	0.667	1	157.76	31.55
PCB1254#4	16.014	35320.40	241.5513	0.667	1	161.14	32.23
PCB1254#5	16.316	7141.97	232.4719	0.667	1	155.08	31.02
		111480.19	1191.5557			794.90	158.98

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.646	32718.12	285.7480	0.667	1	190.63	38.13
PCB1260#2	17.198	12770.54	108.5031	0.667	1	72.38	14.48
PCB1260#3	18.314	1314.50	17.6838	0.667	1	11.80	2.36
PCB1260#4	18.913	1692.00	20.6478	0.667	1	13.77	2.75
PCB1260#5	19.567	3717.50	21.0296	0.667	1	14.03	2.81
		52212.67	453.6123			302.61	60.52

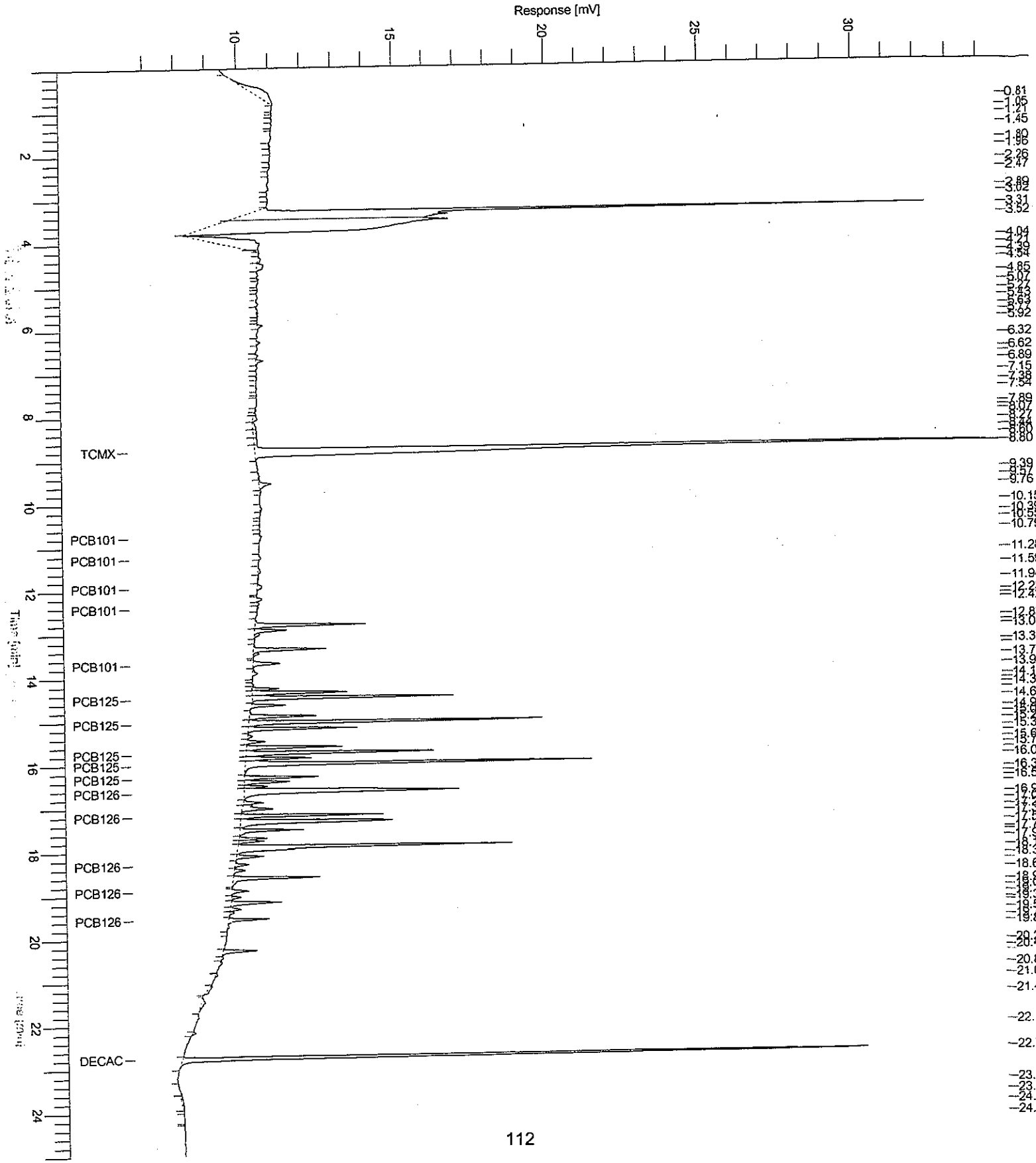
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b036.TX0

Sample Name : qc273647,96828,lcs
FileName : G:\gc22\chb\328b036
Date : 11/29/04 12:04:11 PM
Method : gc22ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96828

Time of Injection: 11/24/04 2:33:10 PM
End Time : 25.00 min
Low Point : 6.42 mV
High Point : 34.61 mV
Plot Offset: 6.42 mV
Plot Scale: 28.2 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22	Instid : GC22	Instid : GC22
Seqnum : 254473018037	Seqnum : 254473018038	Seqnum : 254473018039
Filename : 328_037	Filename : 328_038	Filename : 328_039
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176180-011	Samplenum: QC273648	Samplenum: QC273649
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96828	Batchnum : 96828	Batchnum : 96828
Inj : 24-NOV-2004 15:00	Inj : 24-NOV-2004 15:28	Inj : 24-NOV-2004 15:55
Units : ug/Kg		

MSS: 14.90 g --> 10.0 ml = 0.6711 ml/g PDF
MS: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF
MSD: 15.06 g --> 10.0 ml = 0.664 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND	A		ND	A					
Aroclor-1016 Peak # 2				ND	A		ND	A					
Aroclor-1016 Peak # 3				ND	A		ND	A					
Aroclor-1016 Peak # 4				ND	A		ND	A					
Aroclor-1016 Peak # 5				ND	A		ND	A					
Aroclor-1254	ND	B	332.0	163.3	B	98	279.0	B	84	62-160	15	39	?v
Aroclor-1254 Peak # 1				174.9	B		287.4	B					
Aroclor-1254 Peak # 2				167.4	B		281.6	B					
Aroclor-1254 Peak # 3				156.2	B		273.8	B					
Aroclor-1254 Peak # 4				158.4	B		275.7	B					
Aroclor-1254 Peak # 5				159.5	B		276.4	B					
Aroclor-1260 Peak # 1				ND	A		ND	A					
Aroclor-1260 Peak # 2				ND	A		ND	A					
Aroclor-1260 Peak # 3				ND	A		ND	A					
Aroclor-1260 Peak # 4				ND	A		ND	A					
Aroclor-1260 Peak # 5				ND	A		ND	A					
TCMX			66.40	27.17	B	81	43.18	B	65	62-140	--		
Decachlorobiphenyl			66.40	32.79	B	98	59.75	B	90	48-149	--		

?=missing v=ICV out

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204481766025
Filename : 334_025
IDF : 1.0
Run type : LCS
Samplenum: QC274147
Matrix : Soil
Batchnum : 96948
Inj : 30-NOV-2004 04:57
Units : ug/Kg

LCS: 14.79 g --> 10.0 ml = 0.6761 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
Aroclor-1016 Peak # 1		ND	A			
Aroclor-1016 Peak # 2		ND	A			
Aroclor-1016 Peak # 3		ND	A			
Aroclor-1016 Peak # 4		ND	A			
Aroclor-1016 Peak # 5		ND	A			
Aroclor-1254	169.0	183.3	A	108	69-143	?v
Aroclor-1254 Peak # 1		182.2	A			
Aroclor-1254 Peak # 2		182.6	A			
Aroclor-1254 Peak # 3		183.2	A			
Aroclor-1254 Peak # 4		181.2	A			
Aroclor-1254 Peak # 5		187.1	A			
Aroclor-1260 Peak # 1		ND	A			
Aroclor-1260 Peak # 2		ND	A			
Aroclor-1260 Peak # 3		ND	A			
Aroclor-1260 Peak # 4		ND	A			
Aroclor-1260 Peak # 5		ND	A			
TCMX	33.81	27.88	A	82	62-140	<c-
Decachlorobiphenyl	33.81	38.02	A	112	48-149	

12/1/04

11/30/04

-=low bias <=opening ?=missing c=CCV v=ICV out

Software Version : 6.1.2.0.1:D19
Sample Name : qc274147,96948,lcs
Instrument Name : gc06
Rack/Vial : 1/25
Sample Amount : 1.000000
Cycle : 25

Date : 11/30/04 12:40:45 PM
Data Acquisition Time : 11/30/04 4:57:33 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a025p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	460557.81	41.23	0.6761	1	27.88	5.58
Aroclor-1016	9.649	8810.76	5.48	0.6761	1	3.70	0.74
Aroclor-1254	13.893	634531.98	0.63	0.6761	1	0.43	0.09
Aroclor-1260	16.319	101542.92	44.27	0.6761	1	29.93	5.99
Decachlorobiphenyl	21.667	457976.25	56.24	0.6761	1	38.02	7.60
		1663419.71	147.85			99.97	19.99

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	0.6761	1	0.00	0.00
PCB1016#2	9.649	5255.24	11.39	0.6761	1	7.70	1.54
PCB1016#3	10.830	1600.28	3.14	0.6761	1	2.12	0.42
PCB1016#4	11.395	1955.24	8.48	0.6761	1	5.73	1.15
PCB1016#5	11.841	0.00	0.00	0.6761	1	0.00	0.00
		8810.76	23.01			15.56	3.11

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.250	97530.68	269.43	0.6761	1	182.17	36.43
PCB1254#2	13.893	177365.82	270.01	0.6761	1	182.57	36.51
PCB1254#3	14.586	106356.76	270.97	0.6761	1	183.21	36.64
PCB1254#4	15.573	122755.99	268.00	0.6761	1	181.21	36.24
PCB1254#5	16.024	130522.74	276.79	0.6761	1	187.15	37.43
		634531.98	1355.21			916.30	183.26

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.987	15517.40	65.55	0.6761	1	44.32	8.86
PCB1260#2	16.319	35650.42	110.65	0.6761	1	74.81	14.96
PCB1260#3	16.917	21710.87	56.90	0.6761	1	38.47	7.69
PCB1260#4	17.583	8703.44	19.98	0.6761	1	13.51	2.70
PCB1260#5	18.332	19960.78	21.76	0.6761	1	14.71	2.94
		101542.92	274.83			185.82	37.16

11/30/04

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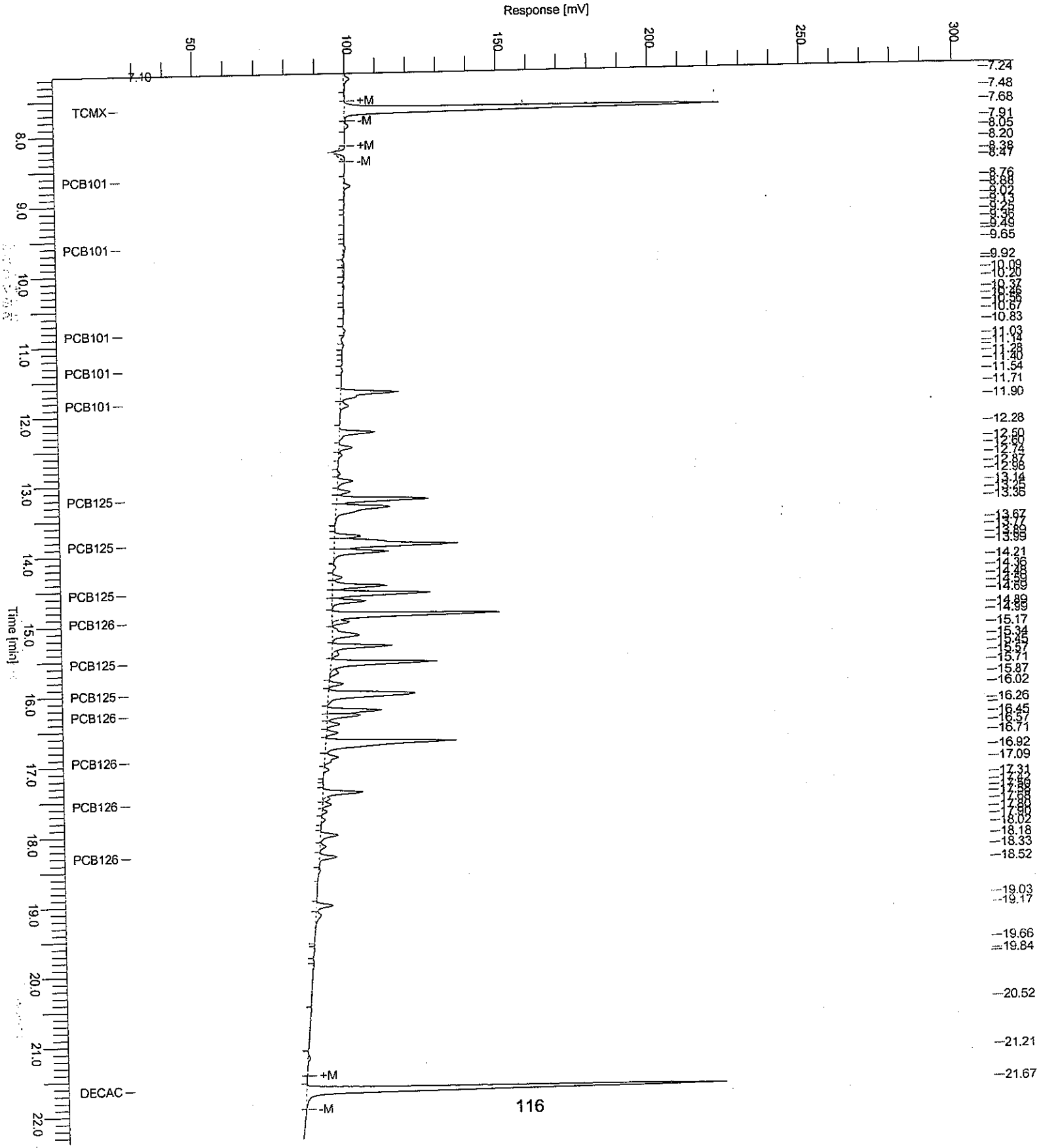
Report stored in ASCII file: G:\gc06\cha\334a025p.TX0

GC 06 Rtx-CLPesticides

ample Name : qc274147,96948,lcs
ileName : G:\gc06\cha\334a025.raw
ate : 11/30/04 12:40:50 PM
ethod :
tart Time : 7.16 min
lot Offset: 25.71 mV

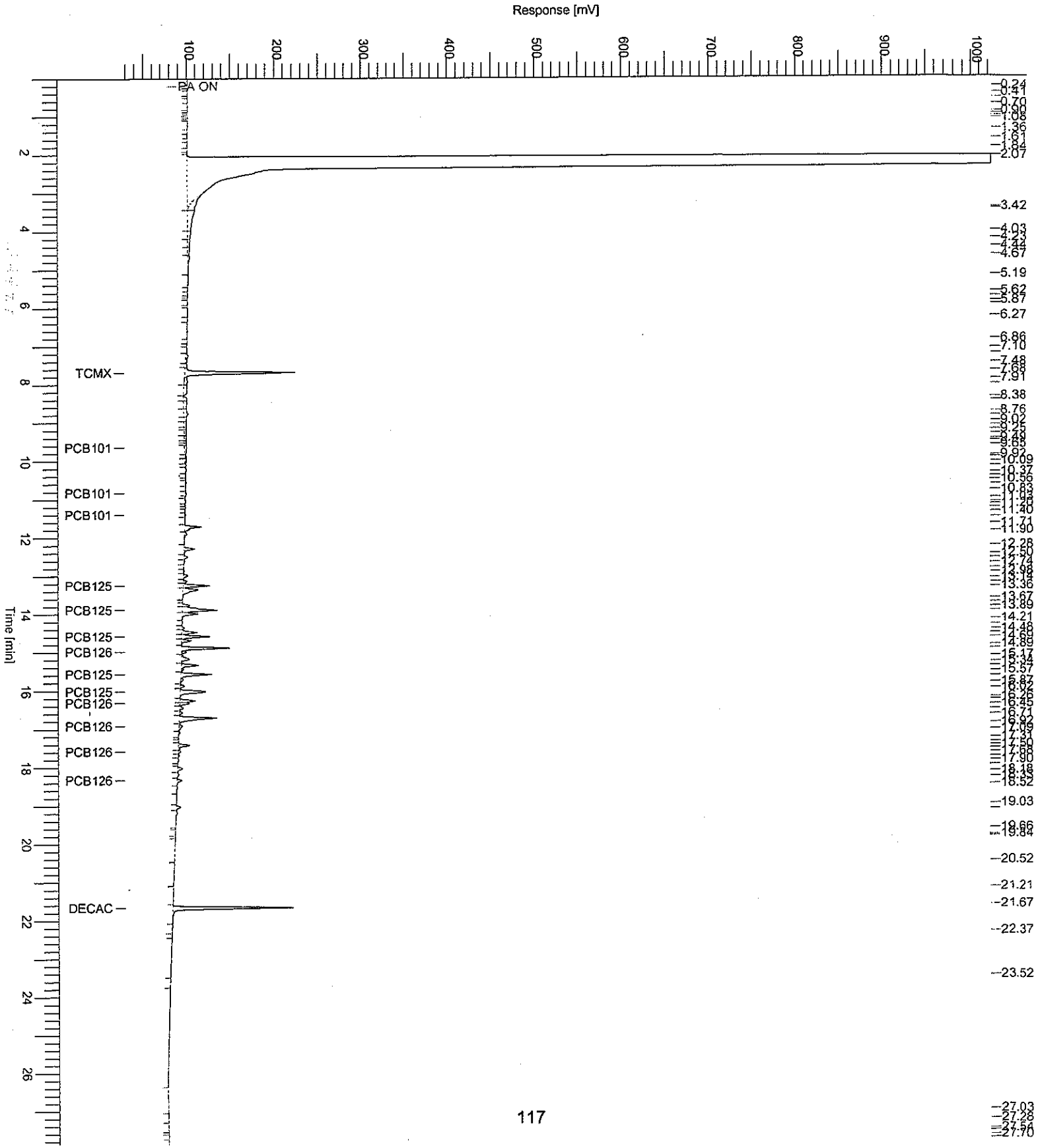
Sample #: 96948

Time of Injection: 11/30/04 4:57:33 AM
End Time : 22.37 min
Low Point : 25.71 mV
High Point : 308.96 mV
Plot Scale: 283.2 mV



GC 06 Rtx-CLPesticides

Sample Name : qc274147,96948,lcs Sample #: 96948 Page 1 of 1
FileName : G:\gc06\cha\334a025.raw
Date : 11/30/04 12:29:39 PM
Method : gc06fsa1ul Time of Injection: 11/30/04 4:57:33 AM
Start Time : 0.00 min End Time : 27.88 min Low Point : 28.21 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 28.21 mV Plot Scale: 995.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274147,96948,lcs
Instrument Name : gc06
Rack/Vial : 1/25
Sample Amount : 1.000000
Cycle : 25

Date : 11/30/04 12:48:33 PM
Data Acquisition Time : 11/30/04 4:57:33 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b025p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	845111.05	42.70	0.6761	1	28.87	5.77
Aroclor-1016	10.856	137606.22	39.75	0.6761	1	26.88	5.38
Aroclor-1254	13.400	1236438.35	1.24	0.6761	1	0.84	0.17
Aroclor-1260	15.267	547726.47	108.35	0.6761	1	73.26	14.65
Decachlorobiphenyl	20.653	541671.22	57.48	0.6761	1	38.87	7.77
		3308553.31	249.52			168.71	33.74

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.380	1690.67	3.91	0.6761	1	2.65	0.53
PCB1016#2	8.840	12715.76	21.53	0.6761	1	14.55	2.91
PCB1016#3	9.476	22293.16	14.64	0.6761	1	9.90	1.98
PCB1016#4	9.929	11281.39	26.85	0.6761	1	18.15	3.63
PCB1016#5	10.856	89625.23	180.73	0.6761	1	122.20	24.44
		137606.22	247.67			167.45	33.49

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	232469.56	282.59	0.6761	1	191.07	38.21
PCB1254#2	12.480	309953.21	281.15	0.6761	1	190.09	38.02
PCB1254#3	13.160	206627.96	288.90	0.6761	1	195.33	39.07
PCB1254#4	13.400	396344.83	318.44	0.6761	1	215.31	43.06
PCB1254#5	13.695	91042.80	326.12	0.6761	1	220.50	44.10
		1236438.35	1497.19			1012.30	202.46

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	143014.14	143.10	0.6761	1	96.76	19.35
PCB1260#2	15.267	334546.22	268.45	0.6761	1	181.51	36.30
PCB1260#3	15.662	15784.51	23.83	0.6761	1	16.11	3.22
PCB1260#4	16.238	17531.69	24.91	0.6761	1	16.84	3.37
PCB1260#5	16.895	36849.91	25.53	0.6761	1	17.26	3.45
		547726.47	485.82			328.48	65.70

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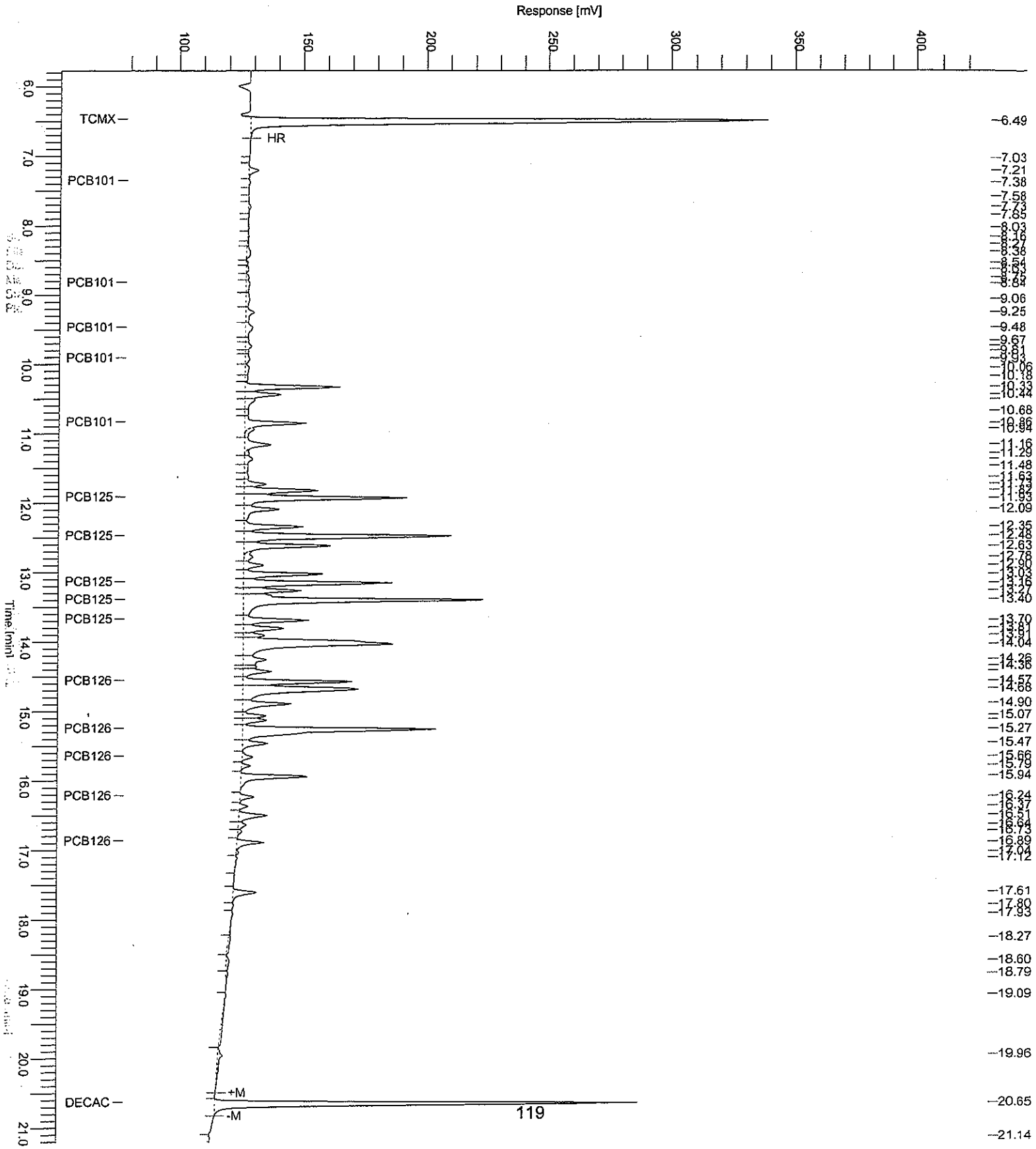
Report stored in ASCII file: G:\gc06\chb\334b025p.TX0

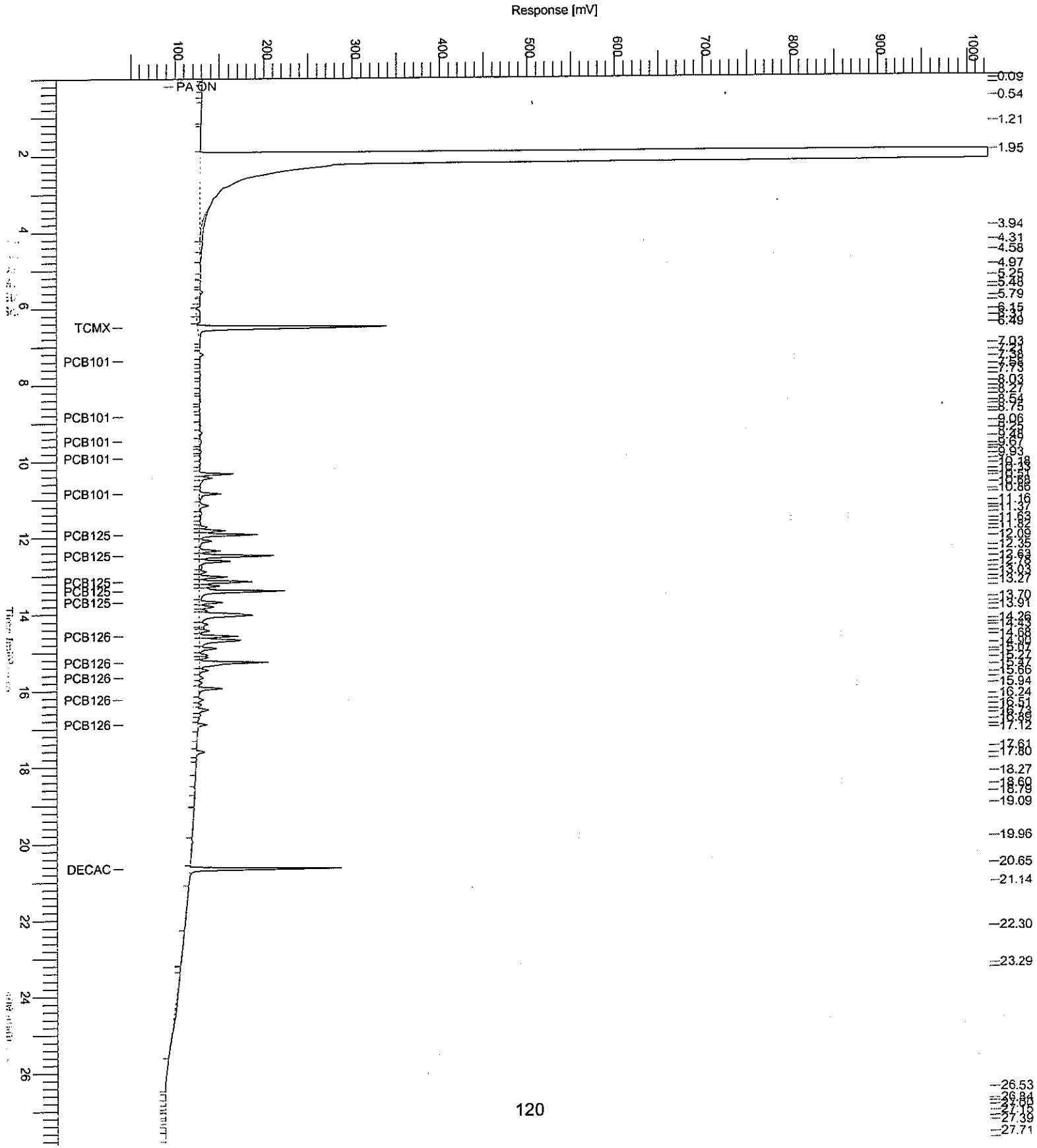
GC 06 Rtx-5

Sample Name : qc274147,96948,lcs Sample #: 96948 Page 1 of 1
FileName : G:\gc06\chb\334b025.raw
Date : 11/30/04 12:48:37 PM
Method : Time of Injection: 11/30/04 4:57:33 AM
Start Time : 5.77 min End Time : 21.21 min Low Point : 78.44 mV High Point : 428.94 mV
Plot Offset: 78.44 mV Plot Scale: 350.5 mV



GC 06 Rtx-5

ample Name : qc274147,96948,lcs Sample #: 96948 Page 1 of 1
ileName : G:\gc06\chb\334b025
ate : 11/30/04 12:30:36 PM
ethod : gc06fsa1ul Time of Injection: 11/30/04 4:57:33 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 40.25 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 40.25 mV Plot Scale: 983.7 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22	Instid : GC22	Instid : GC22
Seqnum : 254473018037	Seqnum : 254473018038	Seqnum : 254473018039
Filename : 328_037	Filename : 328_038	Filename : 328_039
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176180-011	Samplenum: QC273648	Samplenum: QC273649
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96828	Batchnum : 96828	Batchnum : 96828
Inj : 24-NOV-2004 15:00	Inj : 24-NOV-2004 15:28	Inj : 24-NOV-2004 15:55
Units : ug/Kg		

MSS: 14.90 g --> 10.0 ml = 0.6711 ml/g PDF
MS: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF
MSD: 15.06 g --> 10.0 ml = 0.664 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND	A		ND	A					
Aroclor-1016 Peak # 2				ND	A		ND	A					
Aroclor-1016 Peak # 3				ND	A		ND	A					
Aroclor-1016 Peak # 4				ND	A		ND	A					
Aroclor-1016 Peak # 5				ND	A		ND	A					
Aroclor-1254	ND	B	332.0	163.3	B	98	279.0	B	84	62-160	15	39	?v
Aroclor-1254 Peak # 1				174.9	B		287.4	B					
Aroclor-1254 Peak # 2				167.4	B		281.6	B					
Aroclor-1254 Peak # 3				156.2	B		273.8	B					
Aroclor-1254 Peak # 4				158.4	B		275.7	B					
Aroclor-1254 Peak # 5				159.5	B		276.4	B					
Aroclor-1260 Peak # 1				ND	A		ND	A					
Aroclor-1260 Peak # 2				ND	A		ND	A					
Aroclor-1260 Peak # 3				ND	A		ND	A					
Aroclor-1260 Peak # 4				ND	A		ND	A					
Aroclor-1260 Peak # 5				ND	A		ND	A					
TCMX			66.40	27.17	B	81	43.18	B	65	62-140	--		
Decachlorobiphenyl			66.40	32.79	B	98	59.75	B	90	48-149	--		

?=missing v=ICV out

Tu 11/29/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22	Instid : GC22	Instid : GC22
Seqnum : 254473018037	Seqnum : 254473018038	Seqnum : 254473018039
Filename : 328_037	Filename : 328_038	Filename : 328_039
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176180-011	Samplenum: QC273648	Samplenum: QC273649
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96828	Batchnum : 96828	Batchnum : 96828
Inj : 24-NOV-2004 15:00	Inj : 24-NOV-2004 15:28	Inj : 24-NOV-2004 15:55
Units : ug/Kg		

MSS: 14.90 g --> 10.0 ml = 0.6711 ml/g PDF
MS: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF
MSD: 15.06 g --> 10.0 ml = 0.664 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim	%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND	A		ND	A						
Aroclor-1016 Peak # 2				ND	A		ND	A						
Aroclor-1016 Peak # 3				ND	A		ND	A						
Aroclor-1016 Peak # 4				ND	A		ND	A						
Aroclor-1016 Peak # 5				ND	A		ND	A						
Aroclor-1254	ND	B	166.0	163.3	B	98	279.0	B	168*	62-160	31	39	?v	
Aroclor-1254 Peak # 1				174.9	B		287.4	B						
Aroclor-1254 Peak # 2				167.4	B		281.6	B						
Aroclor-1254 Peak # 3				156.2	B		273.8	B						
Aroclor-1254 Peak # 4				158.4	B		275.7	B						
Aroclor-1254 Peak # 5				159.5	B		276.4	B						
Aroclor-1260 Peak # 1				ND	A		ND	A						
Aroclor-1260 Peak # 2				ND	A		ND	A						
Aroclor-1260 Peak # 3				ND	A		ND	A						
Aroclor-1260 Peak # 4				ND	A		ND	A						
Aroclor-1260 Peak # 5				ND	A		ND	A						
TCMX			33.20	27.17	B	81	43.18	B	130	62-140	--			
Decachlorobiphenyl			33.20	32.79	B	98	59.75	B	180*	48-149	--			

DBL SPIKE & SURR
SEE BENCHBOOK

?=missing v=ICV out

Software Version : 6.1.2.0.1:D19
Sample Name : qc273648,96828,ms
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 38

Date : 11/29/04 12:07:55 PM
Data Acquisition Time : 11/24/04 3:28:14 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a038p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.041	137927.00	45.1531	0.669	1	30.20	6.04
Aroclor-1016	12.798	15074.14	50.0022	0.669	1	33.45	6.69
Aroclor-1254	15.452	152569.42	0.1526	0.669	1	0.10	0.02
Aroclor-1260	16.604	49846.19	89.4703	0.669	1	59.85	11.97
Decachlorobiphenyl	21.805	77519.03	60.5438	0.669	1	40.50	8.10
		432935.77	245.3219			164.09	32.82

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.092	897.54	8.4941	0.669	1	5.68	1.14
PCB1016#2	11.857	3553.02	59.6397	0.669	1	39.89	7.98
PCB1016#3	12.399	0.00	0.0000	0.669	1	0.00	0.00
PCB1016#4	12.798	7552.59	121.0651	0.669	1	80.98	16.20
PCB1016#5	13.018	3071.00	81.4142	0.669	1	54.46	10.89
		15074.14	270.6131			181.01	36.20

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.782	22384.76	307.9582	0.669	1	205.99	41.20
PCB1254#2	14.435	38560.35	305.1940	0.669	1	204.14	40.83
PCB1254#3	15.147	24252.33	308.5582	0.669	1	206.39	41.28
PCB1254#4	15.452	40142.05	310.0796	0.669	1	207.41	41.48
PCB1254#5	16.149	27229.93	304.8795	0.669	1	203.93	40.79
		152569.42	1536.6695			1027.87	205.57

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.903	11243.50	112.5968	0.669	1	75.32	15.06
PCB1260#2	16.604	29936.92	199.8725	0.669	1	133.69	26.74
PCB1260#3	17.599	0.00	0.0000	0.669	1	0.00	0.00
PCB1260#4	18.199	1432.02	18.5481	0.669	1	12.41	2.48
PCB1260#5	18.939	7233.74	44.9923	0.669	1	30.10	6.02
		49846.19	376.0097			251.51	50.30

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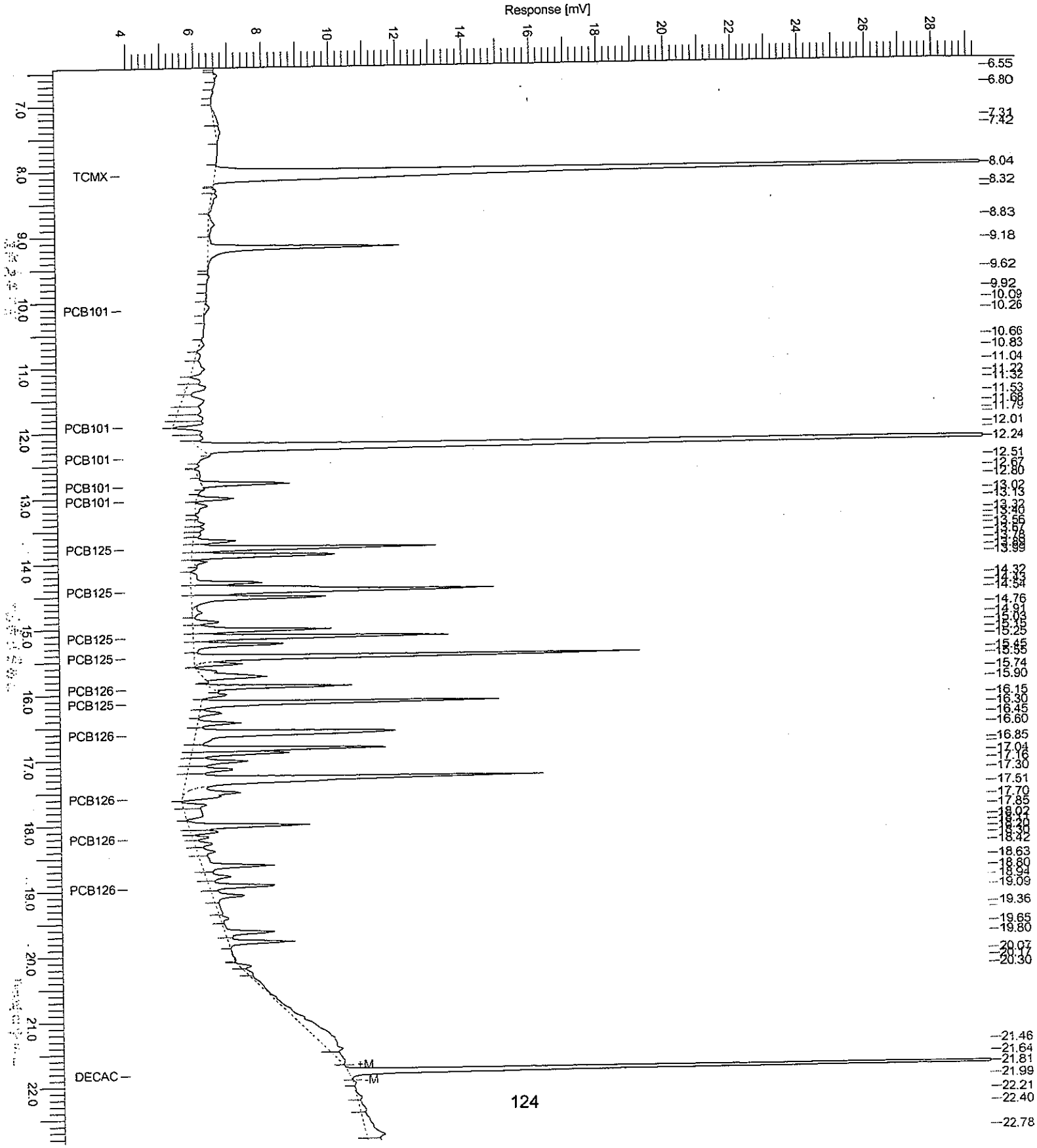
Report stored in ASCII file: G:\gc22\CHA\328a038p.TX0

GC22 Rtx-CLPesticides

ample Name : qc273648,96828,ms
leName : G:\gc22\cha\328a038.raw
ate : 11/29/04 12:08:00 PM
ethod :
tart Time : 6.43 min
lot Offset: 3.82 mV

Sample #: 96828

Time of Injection: 11/24/04 3:28:14 PM
End Time : 22.87 min
Plot Scale: 25.6 mV
Low Point : 3.82 mV
High Point : 29.39 mV

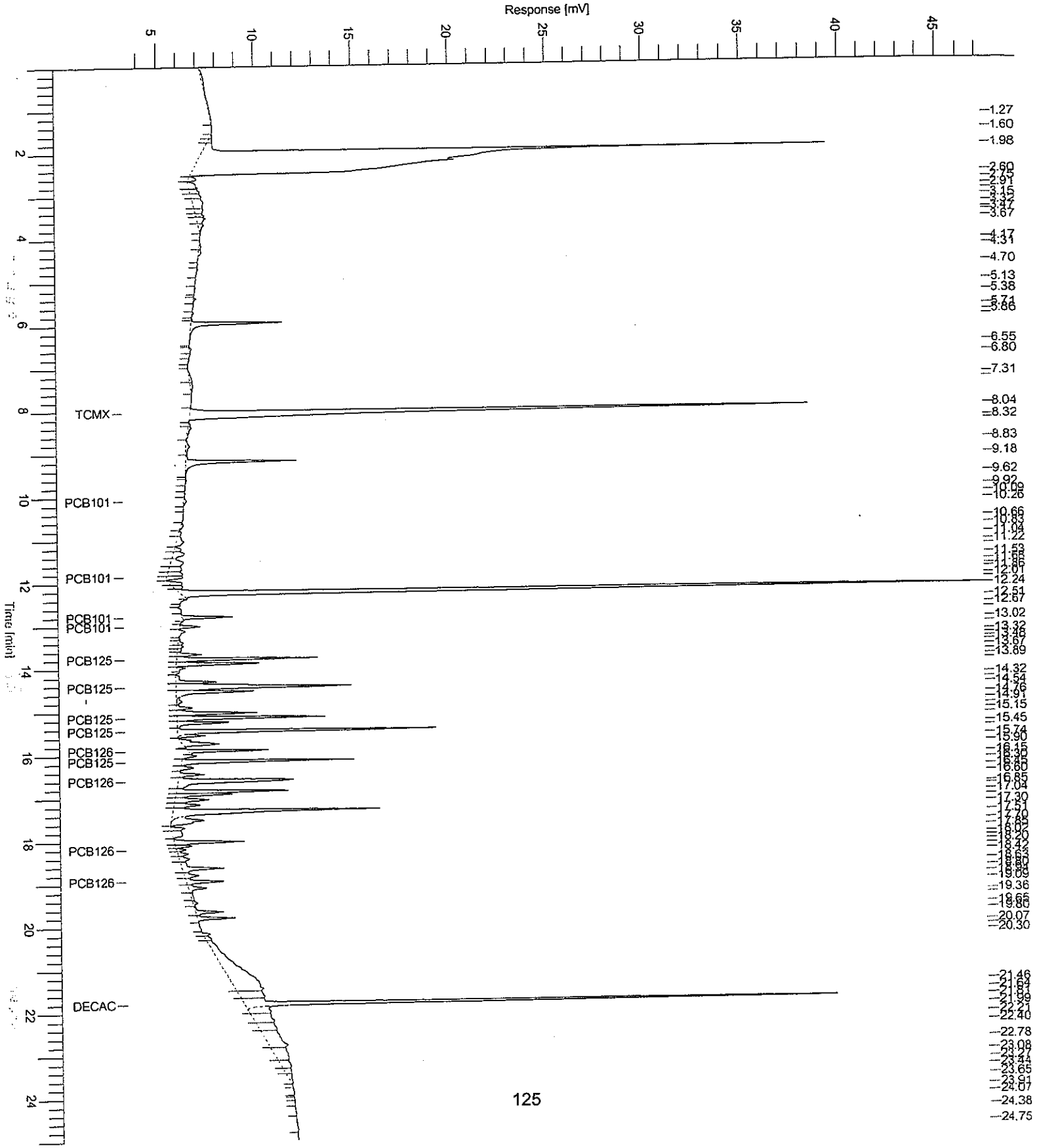


GC22 Rtx-CLPesticides

ımple Name : qc273648,96828,ms
eName : G:\gc22\cha\328a038.raw
ate : 11/29/04 12:03:56 PM
ethod : gc22ins
art Time : 0.00 min
cale Factor: 1.0

Sample #: 96828
Page 1 of 1

Time of Injection: 11/24/04 3:28:14 PM
End Time : 25.00 min
Low Point : 3.20 mV
High Point : 47.30 mV
Plot Offset: 3.20 mV
Plot Scale: 44.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273648,96828,ms
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 38

Date : 11/29/04 12:10:12 PM
Data Acquisition Time : 11/24/04 3:28:14 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b038p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.794	120146.29	40.6125	0.669	1	27.17	5.43
Aroclor-1016	13.702	10959.85	23.7962	0.669	1	15.92	3.18
Aroclor-1254	16.011	113569.38	0.1136	0.669	1	0.08	0.02
Aroclor-1260	16.644	60514.68	107.0580	0.669	1	71.61	14.32
Decachlorobiphenyl	22.772	69171.67	49.0247	0.669	1	32.79	6.56
		374361.86	220.6051			147.56	29.51

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.772	484.90	9.5605	0.669	1	6.40	1.28
PCB1016#2	11.279	345.00	4.7779	0.669	1	3.20	0.64
PCB1016#3	12.013	788.96	3.7897	0.669	1	2.53	0.51
PCB1016#4	12.480	449.83	7.6216	0.669	1	5.10	1.02
PCB1016#5	13.702	8891.16	126.2219	0.669	1	84.43	16.89
		10959.85	151.9717			101.65	20.33

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.488	22665.37	261.4327	0.669	1	174.87	34.97
PCB1254#2	15.052	29277.89	250.1999	0.669	1	167.36	33.47
PCB1254#3	15.754	19669.22	233.4642	0.669	1	156.16	31.23
PCB1254#4	16.011	34630.02	236.8298	0.669	1	158.41	31.68
PCB1254#5	16.315	7326.88	238.4906	0.669	1	159.53	31.91
		113569.38	1220.4171			816.33	163.27

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.644	37644.57	328.7738	0.669	1	219.92	43.98
PCB1260#2	17.195	14446.70	122.7443	0.669	1	82.10	16.42
PCB1260#3	18.304	2087.28	28.0800	0.669	1	18.78	3.76
PCB1260#4	18.904	2562.25	31.2676	0.669	1	20.91	4.18
PCB1260#5	19.565	3773.88	21.3485	0.669	1	14.28	2.86
		60514.68	532.2142			356.00	71.20

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b038p.TX0

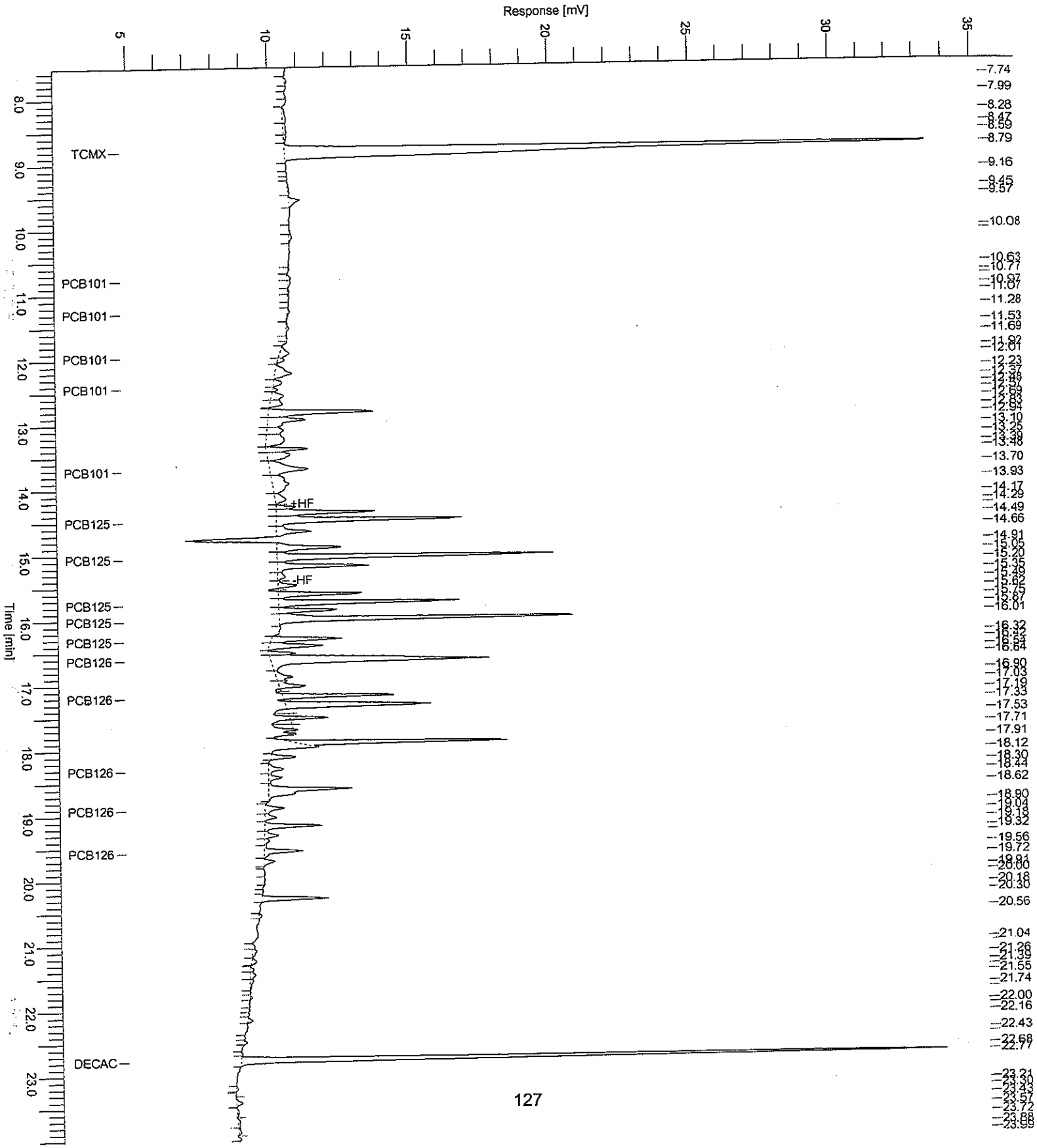
GC22 Rtx-CLPesticides II

ample Name : qc273648,96828,ms
leName : G:\gc22\chb\328b038.raw
ate : 11/29/04 12:10:17 PM
ethod :
art Time : 7.53 min
ot Offset: 4.74 mV

Sample #: 96828

Page 1 of 1

Time of Injection: 11/24/04 3:28:14 PM
End Time : 24.03 min
Low Point : 4.74 mV
High Point : 35.31 mV
Plot Scale: 30.6 mV



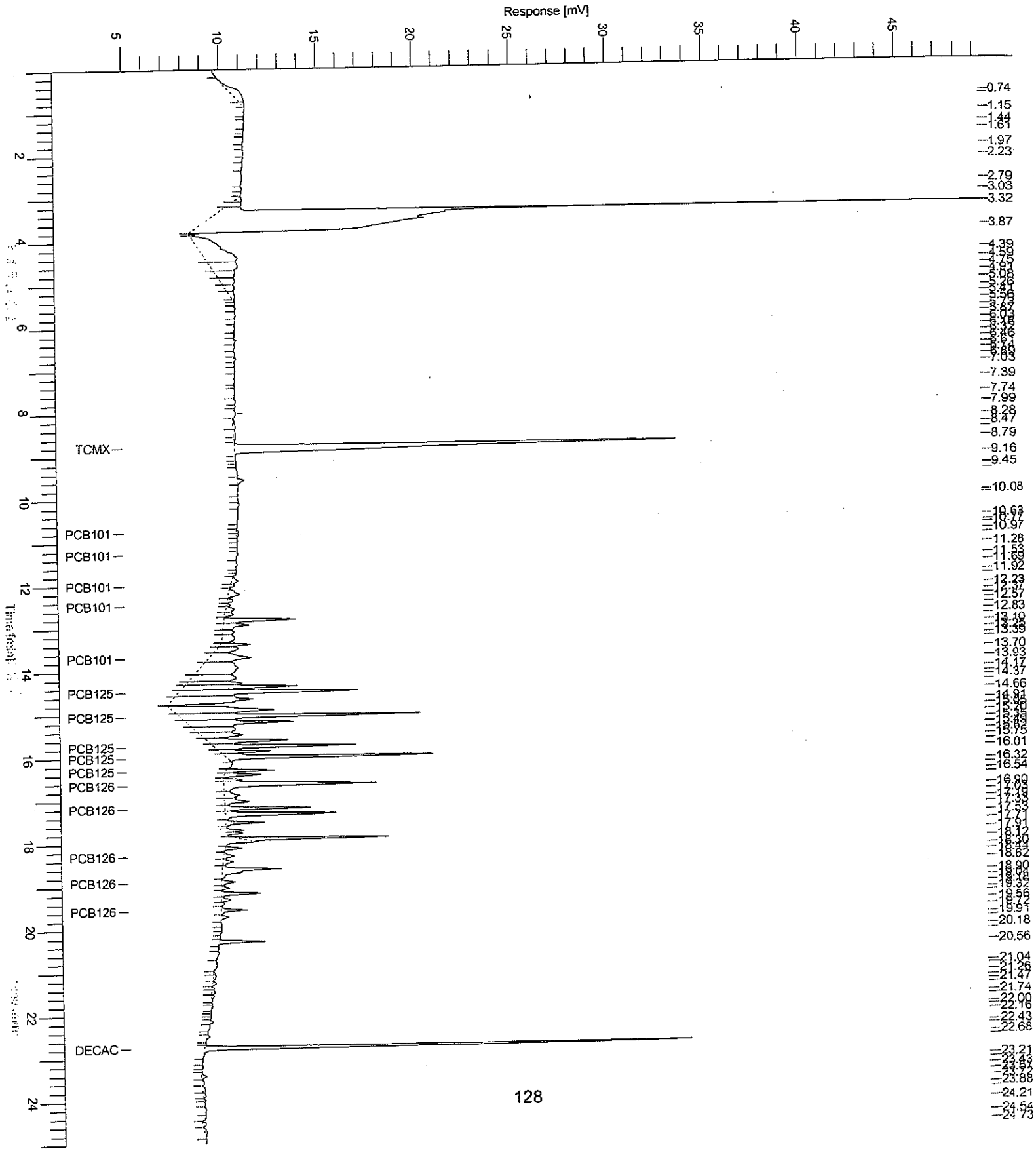
GC22 Rtx-CLPesticides II

ımple Name : qc273648,96828,ms
eName : G:\gc22\chb\328b038
ıte : 11/29/04 12:04:22 PM
ethod : gc22ins
art Time : 0.00 min
:ale Factor: 1.0

Sample #: 96828

Page 1 of 1

Time of Injection: 11/24/04 3:28:14 PM
End Time : 25.00 min
Low Point : 4.85 mV
High Point : 49.31 mV
Plot Offset: 4.85 mV
Plot Scale: 44.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273649,96828,msd
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 39

Date : 11/29/04 12:08:31 PM
Data Acquisition Time : 11/24/04 3:55:52 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a039p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.049	217154.00	71.0896	0.664	1	47.20	9.44
Aroclor-1016	12.801	42644.65	141.4560	0.664	1	93.93	18.79
Aroclor-1254	15.454	277150.77	0.2772	0.664	1	0.18	0.04
Aroclor-1260	16.606	92110.31	165.3313	0.664	1	109.78	21.96
Decachlorobiphenyl	21.804	143063.05	111.7348	0.664	1	74.19	14.84
		772122.77	489.8889			325.29	65.06

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.100	868.00	8.2146	0.664	1	5.45	1.09
PCB1016#2	11.871	2727.30	45.7795	0.664	1	30.40	6.08
PCB1016#3	12.363	5668.00	156.9059	0.664	1	104.19	20.84
PCB1016#4	12.801	24232.89	388.4438	0.664	1	257.93	51.59
PCB1016#5	13.022	9148.46	242.5318	0.664	1	161.04	32.21
		42644.65	841.8755			559.01	111.80

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.784	39932.19	549.3669	0.664	1	364.79	72.96
PCB1254#2	14.437	68019.57	538.3552	0.664	1	357.47	71.49
PCB1254#3	15.149	43809.56	557.3814	0.664	1	370.11	74.02
PCB1254#4	15.454	72453.13	559.6685	0.664	1	371.63	74.33
PCB1254#5	16.151	52936.32	592.7007	0.664	1	393.56	78.71
		277150.77	2797.4728			1857.55	371.51

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.906	28367.46	284.0828	0.664	1	188.63	37.73
PCB1260#2	16.606	52555.05	350.8813	0.664	1	232.99	46.60
PCB1260#3	17.599	0.00	0.0000	0.664	1	0.00	0.00
PCB1260#4	18.188	3056.65	39.5911	0.664	1	26.29	5.26
PCB1260#5	18.949	8131.14	50.5739	0.664	1	33.58	6.72
		92110.31	725.1291			481.49	96.30

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\328a039p.TX0

GC22 Rtx-CLPesticides

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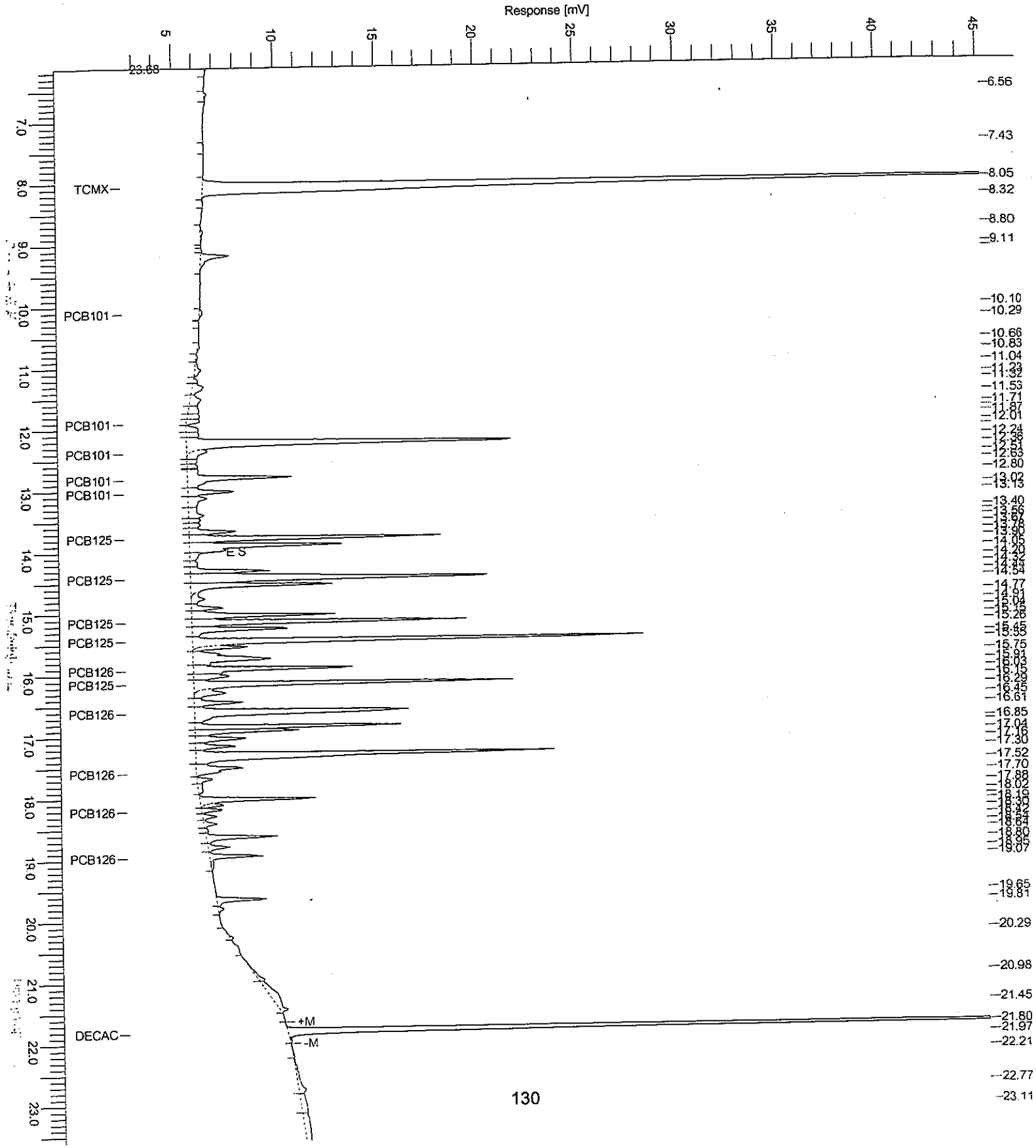
ate : 11/29/04 12:08:35 PM
ethod :
art Time : 6.13 min
ot Offset: 2.47 mV

Sample #: 96828

Page 1 of 1

Time of Injection: 11/24/04 3:55:52 PM
End Time : 23.60 min
Low Point : 2.47 mV
High Point : 45.19 mV
Plot Scale: 42.7 mV

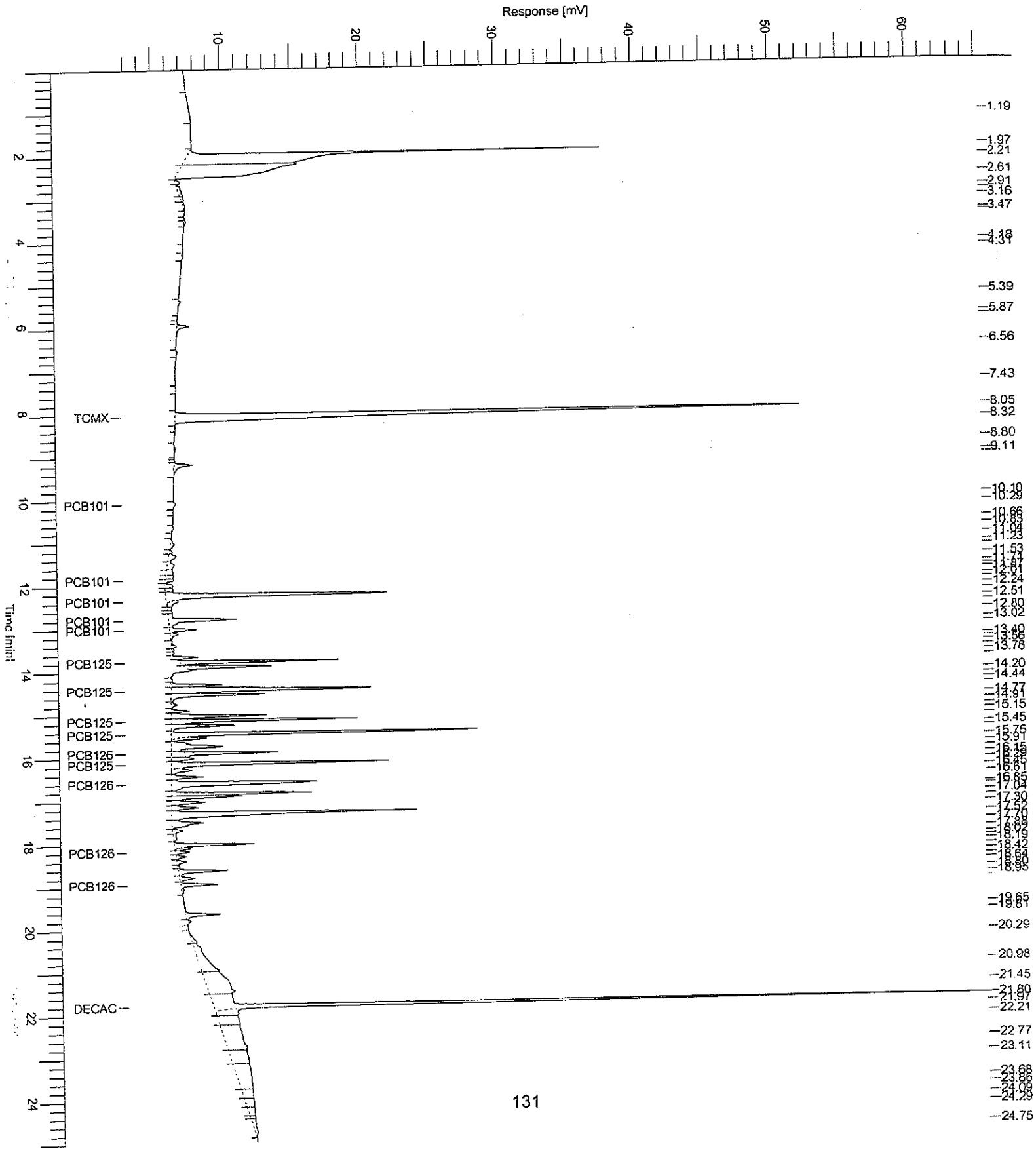


GC22 Rtx-CLPesticides

mple Name : qc273649,96828,msd
eName : G:\gc22\cha\328a039.raw
ıte : 11/29/04 12:04:01 PM
ethod : gc22ins
art Time : 0.00 min End Time : 25.00 min
cale Factor: 1.0 Plot Offset: 2.62 mV

Sample #: 96828 Page 1 of 1

Time of Injection: 11/24/04 3:55:52 PM
Low Point : 2.62 mV High Point : 65.26 mV
Plot Scale: 62.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273649,96828,msd
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 39

Date : 11/29/04 12:10:43 PM
Data Acquisition Time : 11/24/04 3:55:52 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b039p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.793	192368.50	65.0255	0.664	1	43.18	8.64
Aroclor-1016	13.703	11817.40	25.6581	0.664	1	17.04	3.41
Aroclor-1254	16.012	195404.28	0.1954	0.664	1	0.13	0.03
Aroclor-1260	16.645	99058.09	175.2461	0.664	1	116.37	23.27
Decachlorobiphenyl	22.771	126962.00	89.9831	0.664	1	59.75	11.95
		625610.27	356.1082			236.46	47.29

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.775	203.00	4.0025	0.664	1	2.66	0.53
PCB1016#2	11.280	565.50	7.8317	0.664	1	5.20	1.04
PCB1016#3	11.928	2732.66	13.1262	0.664	1	8.72	1.74
PCB1016#4	12.466	299.09	5.0675	0.664	1	3.36	0.67
PCB1016#5	13.703	8017.15	113.8141	0.664	1	75.57	15.11
		11817.40	143.8420			95.51	19.10

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.494	37524.66	432.8265	0.664	1	287.40	57.48
PCB1254#2	15.053	49633.26	424.1506	0.664	1	281.64	56.33
PCB1254#3	15.755	34741.77	412.3681	0.664	1	273.82	54.76
PCB1254#4	16.012	60715.17	415.2226	0.664	1	275.71	55.14
PCB1254#5	16.315	12789.41	416.2966	0.664	1	276.43	55.29
		195404.28	2100.8644			1395.00	279.00

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.645	62233.95	543.5283	0.664	1	360.91	72.18
PCB1260#2	17.196	23607.36	200.5767	0.664	1	133.19	26.64
PCB1260#3	18.312	2987.49	40.1903	0.664	1	26.69	5.34
PCB1260#4	18.906	3308.79	40.3778	0.664	1	26.81	5.36
PCB1260#5	19.565	6920.50	39.1487	0.664	1	26.00	5.20
		99058.09	863.8218			573.59	114.72

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b039p.TX0

GC22 Rtx-CLPesticides II

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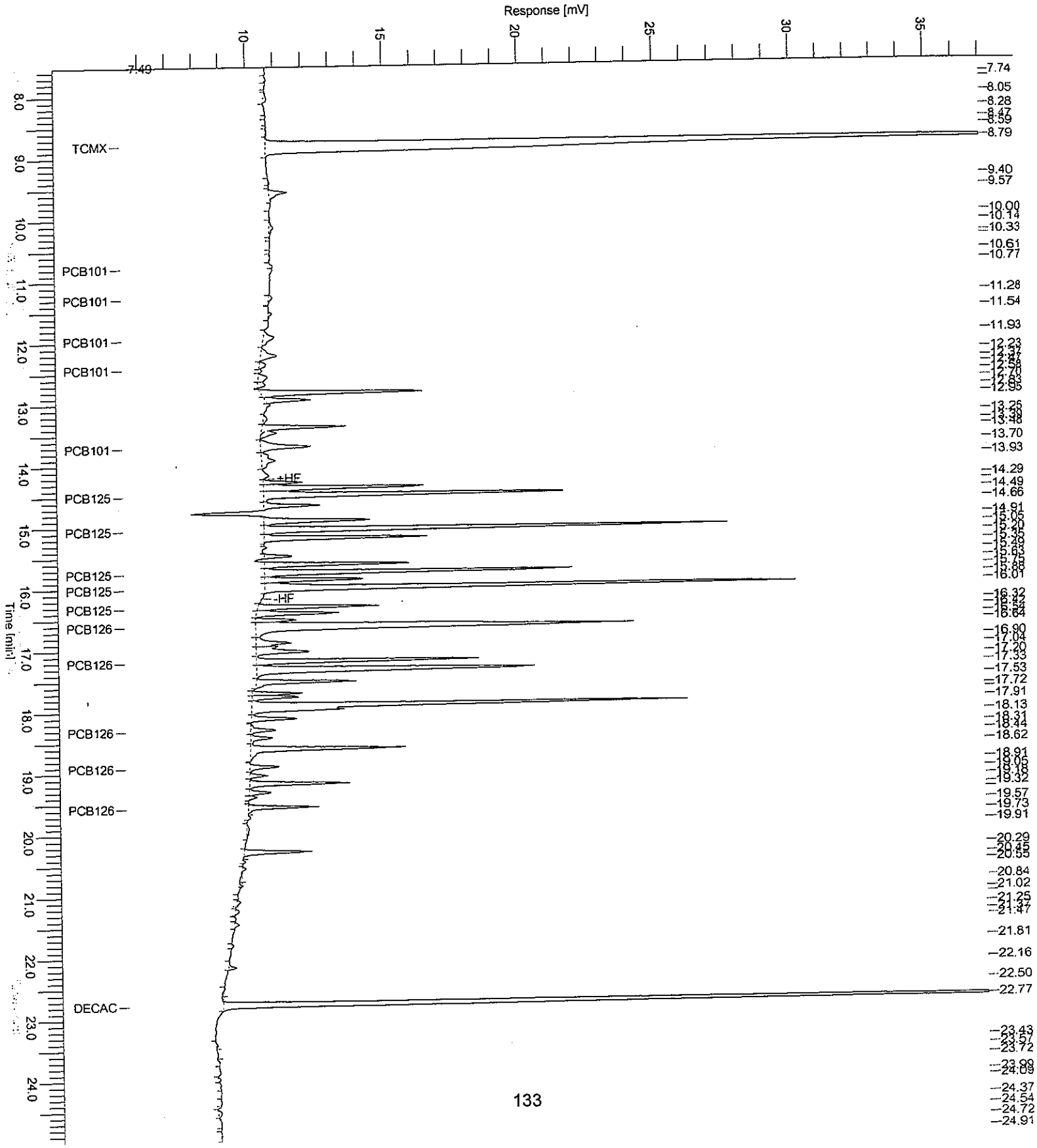
eName : G:\gc22\chb\328b039.raw
ite : 11/29/04 12:10:47 PM
ethod :
art Time : 7.53 min
ot Offset: 5.33 mV

Sample #: 96828

Time of Injection: 11/24/04 3:55:52 PM
End Time : 25.00 min
Low Point : 5.33 mV
High Point : 37.04 mV
Plot Scale: 31.7 mV



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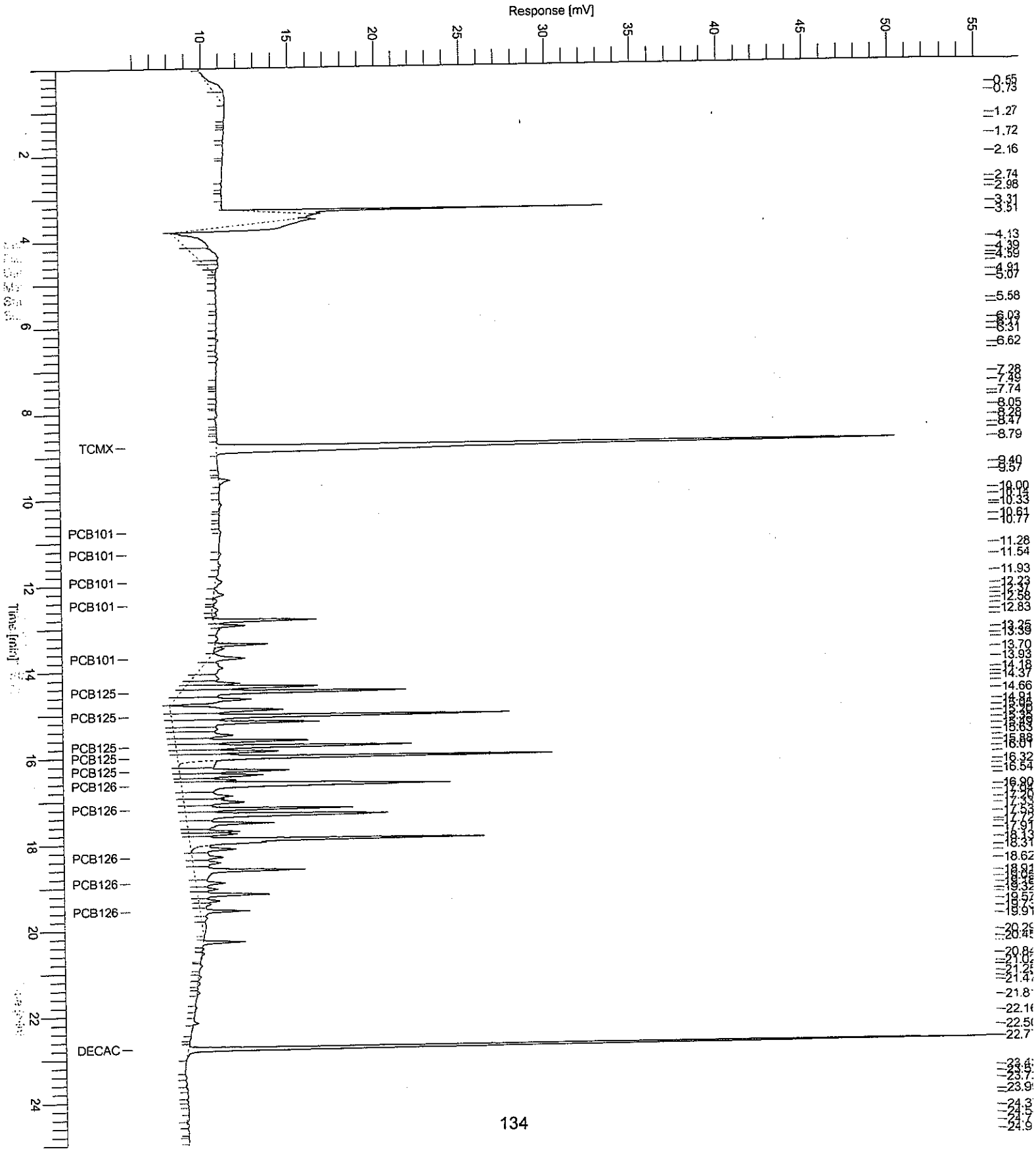
Date : 11/29/04 12:04:28 PM
Method : gc22ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96828

Time of Injection: 11/24/04 3:55:52 PM
End Time : 25.00 min
Low Point : 5.46 mV
High Point : 55.59 mV
Plot Offset: 5.46 mV
Plot Scale: 50.1 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC22
Seqnum : 254473018037
Filename : 328_037
IDF : 1.0

Samplenum: 176180-011
Matrix : Soil
Batchnum : 96828

Cident : SB-16-2'/MS/MSD
Acctnum : URSF (PVF)
Injected : 24-NOV-2004 15:00
Units : ug/Kg

Prep: 14.90 g --> 10.0 ml = 0.6711 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=328_035	Flags
Aroclor-1016	B	254452018001	11		0.72	176%		9.7		x
Aroclor-1016 Peak # 1	B	254452018001		2.54	3.58	34%				
Aroclor-1016 Peak # 2	B	254452018001		ND	ND					
Aroclor-1016 Peak # 3	B	254452018001		2.02	ND					
Aroclor-1016 Peak # 4	B	254452018001		5.68	ND					
Aroclor-1016 Peak # 5	B	254452018001		45.02	ND					
Aroclor-1221	B		ND					19		
Aroclor-1232	B		ND					9.7		
Aroclor-1242	B		ND					9.7		
Aroclor-1248	B		ND					9.7		
Aroclor-1254	B	254453315001	37		3.3	168%		9.7		?v x
Aroclor-1254 Peak # 1	B	254453315001		91.57	1.46	194%				
Aroclor-1254 Peak # 2	B	254453315001		ND	2.13					
Aroclor-1254 Peak # 3	B	254453315001		23.45	1.84	171%				
Aroclor-1254 Peak # 4	B	254453315001		27.61	6.68	122%				
Aroclor-1254 Peak # 5	B	254453315001		44.76	4.22	166%				
Aroclor-1260	B	254452018001	ND					9.7		
Aroclor-1260 Peak # 1	B	254452018001		8.68	0.47	179%				
Aroclor-1260 Peak # 2	B	254452018001		2.42	1.06	78%				
Aroclor-1260 Peak # 3	B	254452018001		ND	17.03					
Aroclor-1260 Peak # 4	B	254452018001		2.87	ND					
Aroclor-1260 Peak # 5	B	254452018001		1.78	2.63	39%				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	B	254452018001	33.56	29.56	88	62-140	
Decachlorobiphenyl	B	254452018001	33.56	40.07	119	48-149	

?=missing v=ICV out x=false positive

Analyst: _____ Date: 11/29/04 Reviewer: _____ Date: _____

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176180-011,96828,mss
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 37

Date : 11/29/04 12:07:16 PM
Data Acquisition Time : 11/24/04 3:00:42 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a037p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.049	132747.00	43.4573	0.671	1	29.17	5.83
Aroclor-1016	10.100	563.00	1.8675	0.671	1	1.25	0.25
Aroclor-1254	15.457	2626.00	0.0026	0.671	1	0.00	0.00
Aroclor-1260	17.572	2699.50	4.8454	0.671	1	3.25	0.65
Decachlorobiphenyl	21.813	68678.00	53.6388	0.671	1	36.00	7.20
		207313.50	103.8116			69.67	13.93

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.100	563.00	5.3281	0.671	1	3.58	0.72
PCB1016#2	11.920	0.00	0.0000	0.671	1	0.00	0.00
PCB1016#3	12.399	0.00	0.0000	0.671	1	0.00	0.00
PCB1016#4	12.830	0.00	0.0000	0.671	1	0.00	0.00
PCB1016#5	13.051	0.00	0.0000	0.671	1	0.00	0.00
		563.00	5.3281			3.58	0.72

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.784	158.00	2.1737	0.671	1	1.46	0.29
PCB1254#2	14.446	401.50	3.1778	0.671	1	2.13	0.43
PCB1254#3	15.157	215.50	2.7418	0.671	1	1.84	0.37
PCB1254#4	15.457	1289.00	9.9570	0.671	1	6.68	1.34
PCB1254#5	16.159	562.00	6.2924	0.671	1	4.22	0.84
		2626.00	24.3426			16.34	3.27

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.916	70.00	0.7010	0.671	1	0.47	0.09
PCB1260#2	16.595	235.50	1.5723	0.671	1	1.06	0.21
PCB1260#3	17.572	1764.00	25.3790	0.671	1	17.03	3.41
PCB1260#4	18.217	0.00	0.0000	0.671	1	0.00	0.00
PCB1260#5	18.938	630.00	3.9185	0.671	1	2.63	0.53
		2699.50	31.5708			21.19	4.24

11/29/04

----------CURTIS & TOMPKINS LTD----------

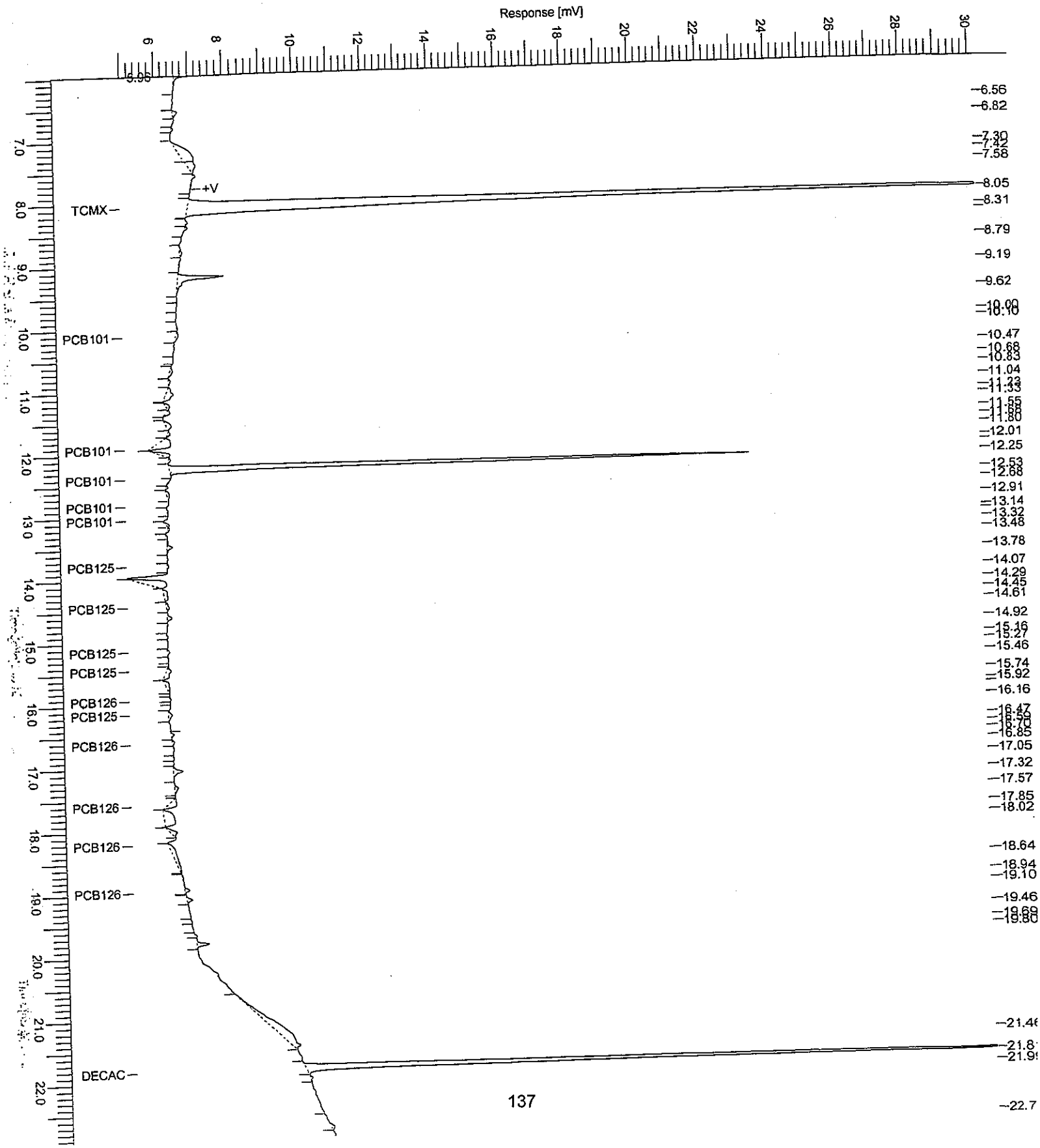
Report stored in ASCII file: G:\gc22\CHA\328a037p.TX0

GC22 Rtx-CLPesticides

mple Name : 176180-011,96828,mss
eName : G:\gc22\cha\328a037.raw
ate : 11/29/04 12:07:21 PM
ethod :
art Time : 5.98 min
ot Offset: 4.95 mV

Sample #: 96828

Time of Injection: 11/24/04 3:00:42 PM
End Time : 22.93 min
Plot Scale: 25.2 mV
Low Point : 4.95 mV
High Point : 30.12 mV

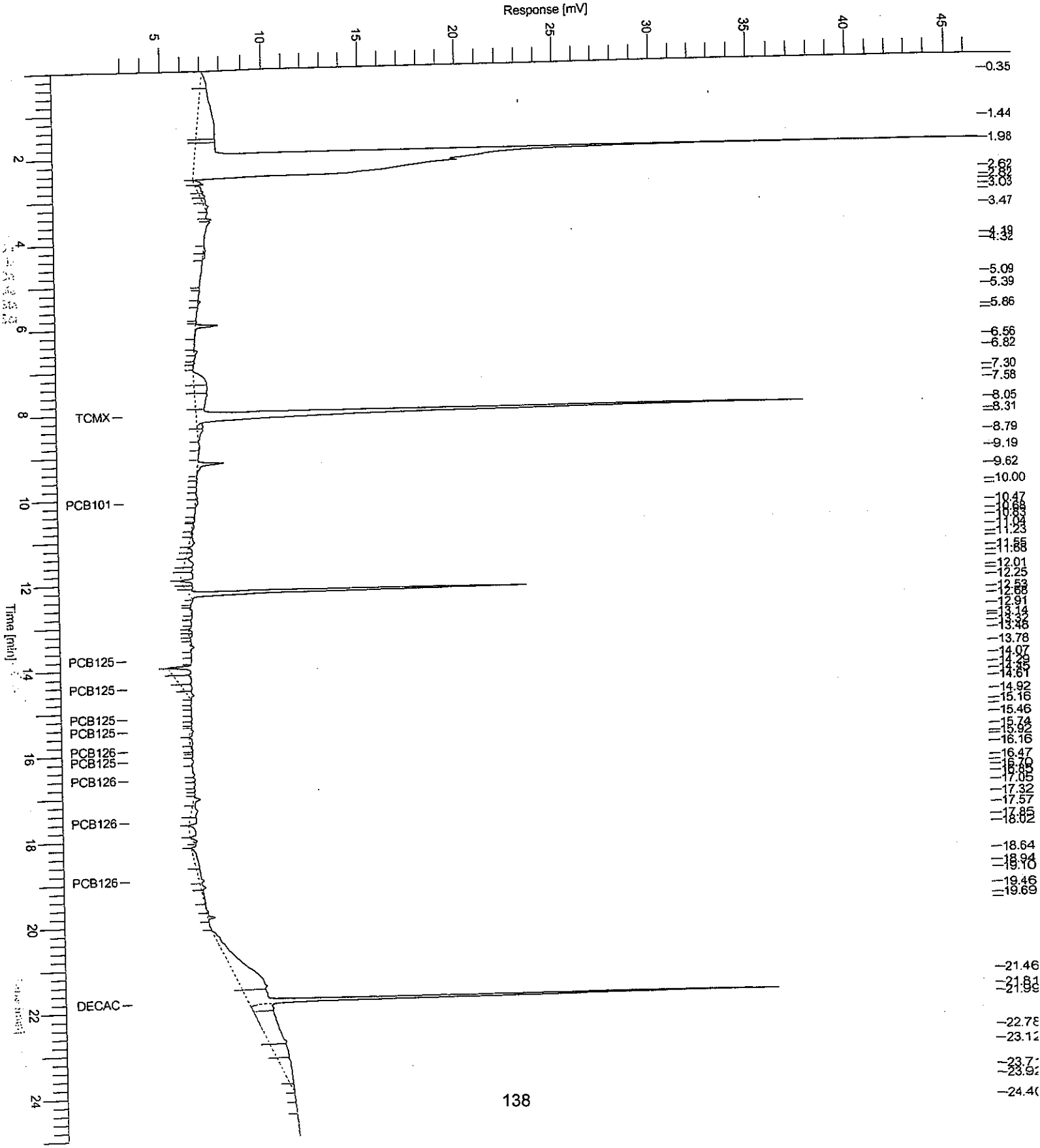


GC22 Rtx-CLPesticides

ımple Name : 176180-011,96828,mss
eName : G:\gc22\cha\328a037.raw
ıte : 11/29/04 12:03:51 PM
ethod : gc22ins
art Time : 0.00 min
ale Factor: 1.0

Sample #: 96828

Time of Injection: 11/24/04 3:00:42 PM
End Time : 25.00 min
Low Point : 2.87 mV
High Point : 46.70 mV
Plot Offset: 2.87 mV
Plot Scale: 43.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176180-011,96828,mss
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 37

Date : 11/29/04 12:04:14 PM
Data Acquisition Time : 11/24/04 3:00:42 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b037.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.799	130307.12	44.0472	0.671	1	29.56	5.91
Aroclor-1016	13.739	6042.01	13.1185	0.671	1	8.80	1.76
Aroclor-1254	14.444	22836.68	0.0228	0.671	1	0.02	0.00
Aroclor-1260	16.596	2722.68	4.8168	0.671	1	3.23	0.65
Decachlorobiphenyl	22.778	84249.83	59.7112	0.671	1	40.07	8.01
		246158.32	121.7165			81.69	16.34

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.766	192.00	3.7856	0.671	1	2.54	0.51
PCB1016#2	11.299	0.00	0.0000	0.671	1	0.00	0.00
PCB1016#3	12.027	625.51	3.0046	0.671	1	2.02	0.40
PCB1016#4	12.477	499.62	8.4652	0.671	1	5.68	1.14
PCB1016#5	13.739	4724.88	67.0760	0.671	1	45.02	9.00
		6042.01	82.3314			55.26	11.05

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.444	11828.32	136.4332	0.671	1	91.57	18.31
PCB1254#2	15.068	0.00	0.0000	0.671	1	0.00	0.00
PCB1254#3	15.784	2943.92	34.9429	0.671	1	23.45	4.69
PCB1254#4	16.019	6015.43	41.1387	0.671	1	27.61	5.52
PCB1254#5	16.343	2049.02	66.6958	0.671	1	44.76	8.95
		22836.68	279.2105			187.39	37.48

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.596	1480.50	12.9301	0.671	1	8.68	1.74
PCB1260#2	17.267	424.00	3.6025	0.671	1	2.42	0.48
PCB1260#3	18.324	0.00	0.0000	0.671	1	0.00	0.00
PCB1260#4	18.906	350.00	4.2711	0.671	1	2.87	0.57
PCB1260#5	19.581	468.18	2.6484	0.671	1	1.78	0.36
		2722.68	23.4522			15.74	3.15

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b037.TX0

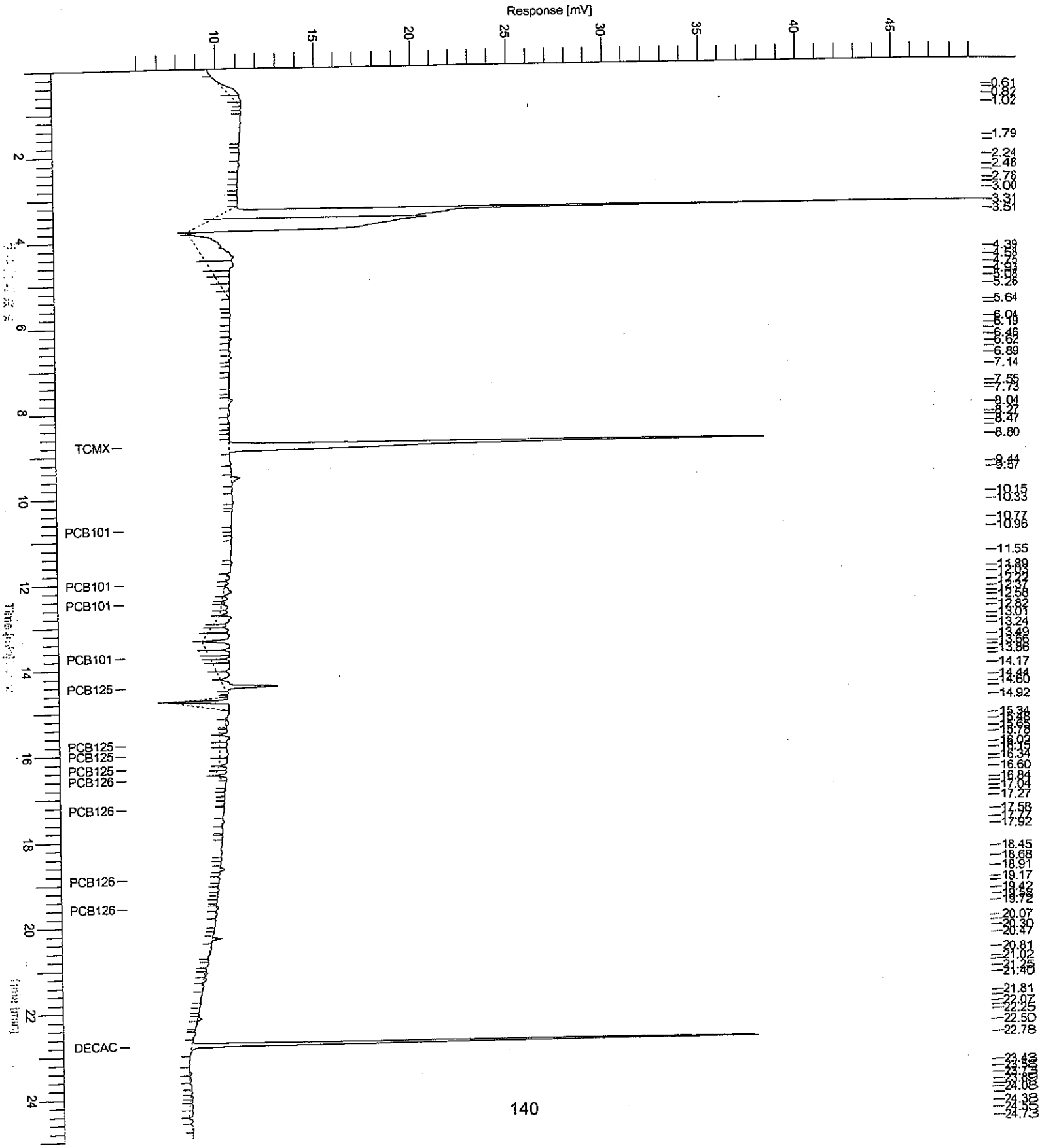
GC22 Rtx-CLPesticides II

ımple Name : 176180-011,96828,mss
eName : G:\gc22\chb\328b037
ıte : 11/29/04 12:04:17 PM
ethod : gc22ins
art Time : 0.00 min
ale Factor: 1.0

Sample #: 96828

Page 1 of 1

Time of Injection: 11/24/04 3:00:42 PM
End Time : 25.00 min
Low Point : 5.09 mV
High Point : 49.63 mV
Plot Offset: 5.09 mV
Plot Scale: 44.5 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204481766014
Filename : 334_014
IDF : 1.0
Run type : MSS
Samplenum: 176248-003
Matrix : Soil
Batchnum : 96948
Inj : 29-NOV-2004 22:52
Units : ug/Kg

Instid : GC06
Seqnum : 204481766027
Filename : 334_027
IDF : 1.0
Run type : MS
Samplenum: QC274148
Matrix : Soil
Batchnum : 96948
Inj : 30-NOV-2004 06:03

Instid : GC06
Seqnum : 204481766056
Filename : 334_056
IDF : 1.0
Run type : MSD
Samplenum: QC274149
Matrix : Soil
Batchnum : 96948
Inj : 30-NOV-2004 22:08

MSS: 14.96 g --> 10.0 ml = 0.6684 ml/g PDF
MS: 14.87 g --> 10.0 ml = 0.6725 ml/g PDF
MSD: 14.79 g --> 10.0 ml = 0.6761 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND	A		ND	A					
Aroclor-1016 Peak # 2				ND	A		ND	A					
Aroclor-1016 Peak # 3				ND	A		ND	A					
Aroclor-1016 Peak # 4				ND	A		ND	A					
Aroclor-1016 Peak # 5				ND	A		ND	A					
Aroclor-1254	ND	A	169.0	208.3	A	124	292.7	A	173*	62-160	33	39	?v
Aroclor-1254 Peak # 1				185.8	A		281.9	A					
Aroclor-1254 Peak # 2				189.6	A		281.4	A					
Aroclor-1254 Peak # 3				186.3	A		296.7	A					
Aroclor-1254 Peak # 4				242.3	A		314.0	A					
Aroclor-1254 Peak # 5				237.8	A		289.4	A					
Aroclor-1260 Peak # 1				ND	A		ND	A					
Aroclor-1260 Peak # 2				ND	A		ND	A					
Aroclor-1260 Peak # 3				ND	A		ND	A					
Aroclor-1260 Peak # 4				ND	A		ND	A					
Aroclor-1260 Peak # 5				ND	A		ND	A					
TCMX			33.81	29.98	A	89	49.65	A	147*	62-140	--		<c-
Decachlorobiphenyl			33.81	37.44	A	111	55.66	A	165*	48-149	--		

-=low bias <=opening ?=missing c=CCV v=ICV out

12/1/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc274148,96948,ms
Instrument Name : gc06
Rack/Vial : 1/27
Sample Amount : 1.000000
Cycle : 27

Date : 11/30/04 12:41:38 PM
Data Acquisition Time : 11/30/04 6:03:51 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a027p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.667	497978.83	44.58	0.6725	1	29.98	6.00
Aroclor-1016	8.685	51425.21	31.97	0.6725	1	21.50	4.30
Aroclor-1254	15.572	725670.00	0.73	0.6725	1	0.49	0.10
Aroclor-1260	16.321	129104.26	56.29	0.6725	1	37.85	7.57
Decachlorobiphenyl	21.667	453360.72	55.67	0.6725	1	37.44	7.49
		1857539.02	189.24			127.26	25.45

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.685	12716.12	52.85	0.6725	1	35.54	7.11
PCB1016#2	9.652	4179.72	9.06	0.6725	1	6.09	1.22
PCB1016#3	10.830	1509.54	2.96	0.6725	1	1.99	0.40
PCB1016#4	11.405	16556.90	71.81	0.6725	1	48.29	9.66
PCB1016#5	11.869	16462.93	99.16	0.6725	1	66.68	13.34
		51425.21	235.84			158.60	31.72

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.249	100022.88	276.31	0.6725	1	185.82	37.16
PCB1254#2	13.892	185195.96	281.94	0.6725	1	189.60	37.92
PCB1254#3	14.586	108721.11	276.99	0.6725	1	186.28	37.26
PCB1254#4	15.572	164997.60	360.23	0.6725	1	242.25	48.45
PCB1254#5	16.022	166732.45	353.58	0.6725	1	237.78	47.56
		725670.00	1549.04			1041.72	208.34

11/30/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.989	14422.28	60.92	0.6725	1	40.97	8.19
PCB1260#2	16.321	37659.99	116.88	0.6725	1	78.60	15.72
PCB1260#3	16.971	8340.66	21.86	0.6725	1	14.70	2.94
PCB1260#4	17.586	24892.13	57.15	0.6725	1	38.43	7.69
PCB1260#5	18.330	43789.20	47.73	0.6725	1	32.10	6.42
		129104.26	304.54			204.80	40.96

----------CURTIS & TOMPKINS LTD----------

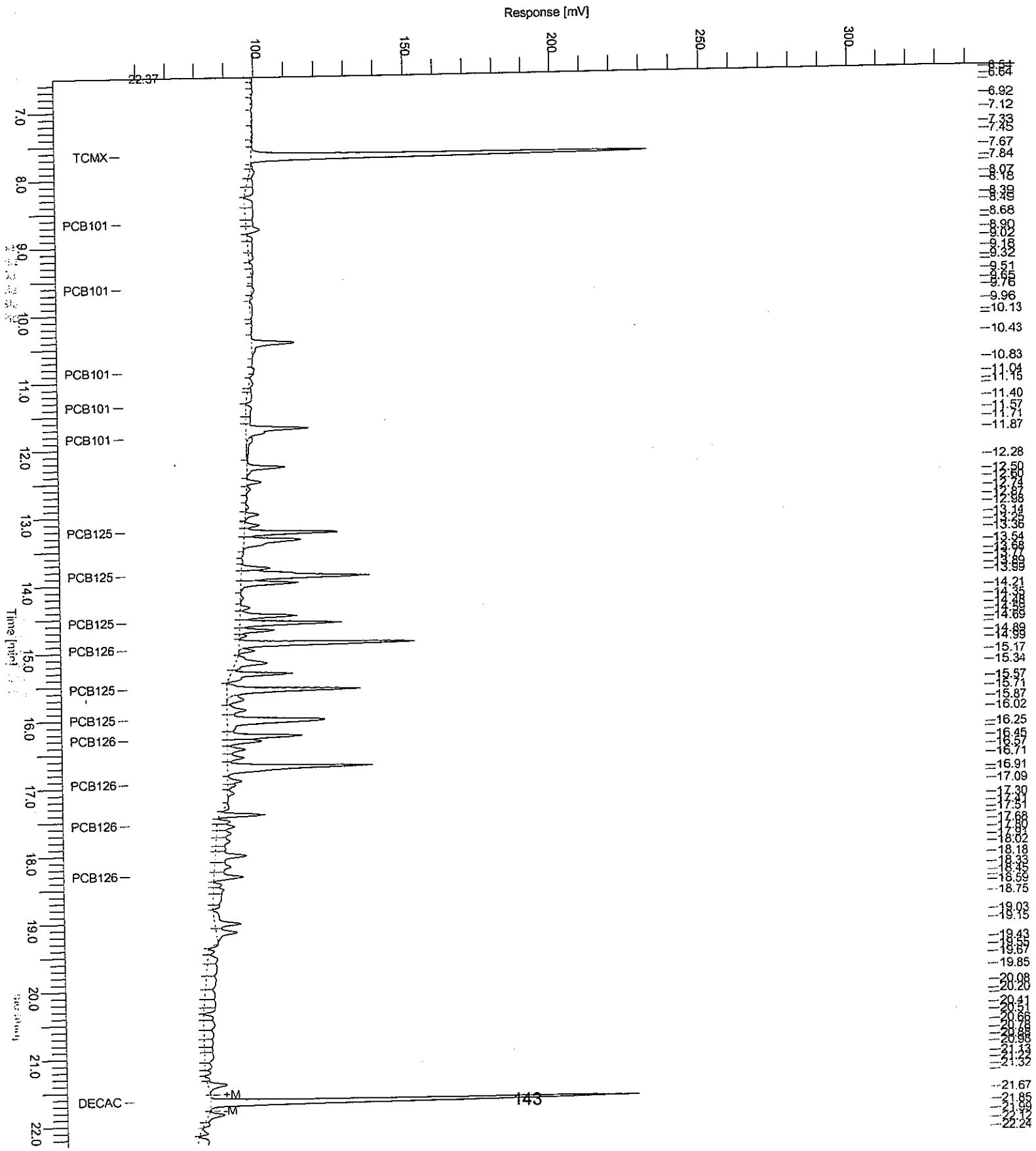
Report stored in ASCII file: G:\gc06\cha\334a027p.TX0

GC 06 Rtx-CLPesticides

ımple Name : qc274148,96948,ms
eName : G:\gc06\cha\334a027.raw
ate : 11/30/04 12:41:43 PM
ethod :
art Time : 6.51 min
ot Offset: 54.48 mV

Sample #: 96948

Time of Injection: 11/30/04 6:03:51 AM
End Time : 22.29 min
Low Point : 54.48 mV
High Point : 344.57 mV
Plot Scale: 290.1 mV



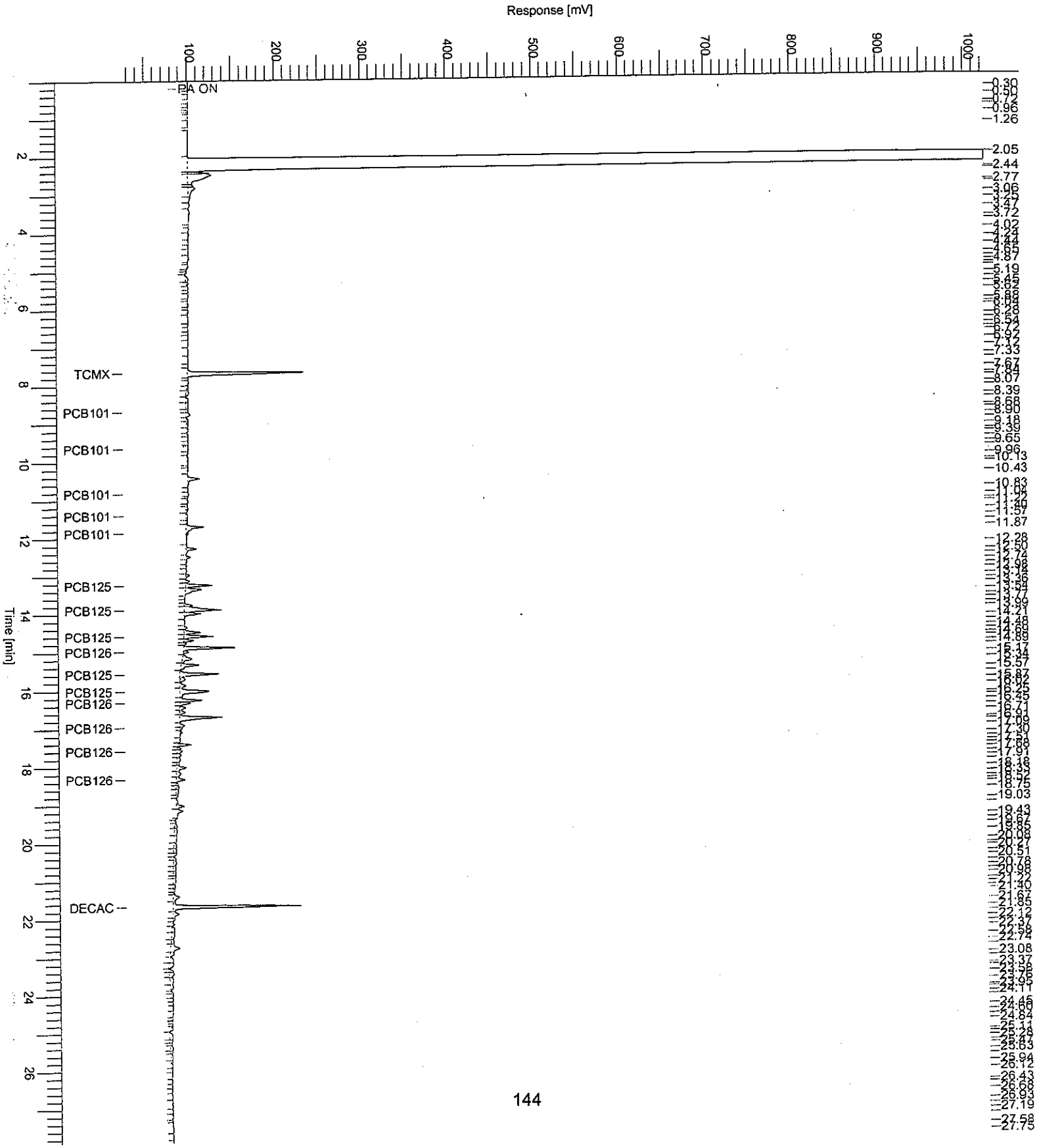
GC 06 Rtx-CLPesticides

ample Name : qc274148,96948,ms
ileName : G:\gc06\cha\334a027.raw
ate : 11/30/04 12:29:50 PM
ethod : gc06fsa1ul
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 96948

Page 1 of 1

Time of Injection: 11/30/04 6:03:51 AM
End Time : 27.88 min
Low Point : 23.85 mV
High Point : 1024.00 mV
Plot Offset: 23.85 mV
Plot Scale: 1000.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274148,96948,ms
Instrument Name : gc06
Rack/Vial : 1/27
Sample Amount : 1.000000
Cycle : 27

Date : 11/30/04 12:49:54 PM
Data Acquisition Time : 11/30/04 6:03:51 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b027p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	889715.08	44.95	0.6725	1	30.23	6.05
Aroclor-1016	10.854	257253.33	74.32	0.6725	1	49.98	10.00
Aroclor-1254	13.400	1269303.72	1.27	0.6725	1	0.85	0.17
Aroclor-1260	15.267	840392.33	166.24	0.6725	1	111.80	22.36
Decachlorobiphenyl	20.653	467669.85	49.63	0.6725	1	33.38	6.68
		3724334.31	336.42			226.24	45.25

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.375	16750.33	38.77	0.6725	1	26.07	5.21
PCB1016#2	8.769	109696.88	185.70	0.6725	1	124.89	24.98
PCB1016#3	9.475	29725.13	19.52	0.6725	1	13.13	2.63
PCB1016#4	9.927	13455.34	32.03	0.6725	1	21.54	4.31
PCB1016#5	10.854	87625.65	176.70	0.6725	1	118.83	23.77
		257253.33	452.72			304.45	60.89

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	215651.78	262.15	0.6725	1	176.29	35.26
PCB1254#2	12.480	314633.09	285.39	0.6725	1	191.92	38.38
PCB1254#3	13.160	222556.23	311.17	0.6725	1	209.26	41.85
PCB1254#4	13.400	410023.35	329.43	0.6725	1	221.54	44.31
PCB1254#5	13.694	106439.28	381.27	0.6725	1	256.40	51.28
		1269303.72	1569.41			1055.42	211.08

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	206971.33	207.10	0.6725	1	139.27	27.85
PCB1260#2	15.267	414755.71	332.81	0.6725	1	223.81	44.76
PCB1260#3	15.661	59142.08	89.27	0.6725	1	60.03	12.01
PCB1260#4	16.237	70231.75	99.79	0.6725	1	67.11	13.42
PCB1260#5	16.893	89291.46	61.87	0.6725	1	41.61	8.32
		840392.33	790.84			531.83	106.37

----------CURTIS & TOMPKINS LTD----------

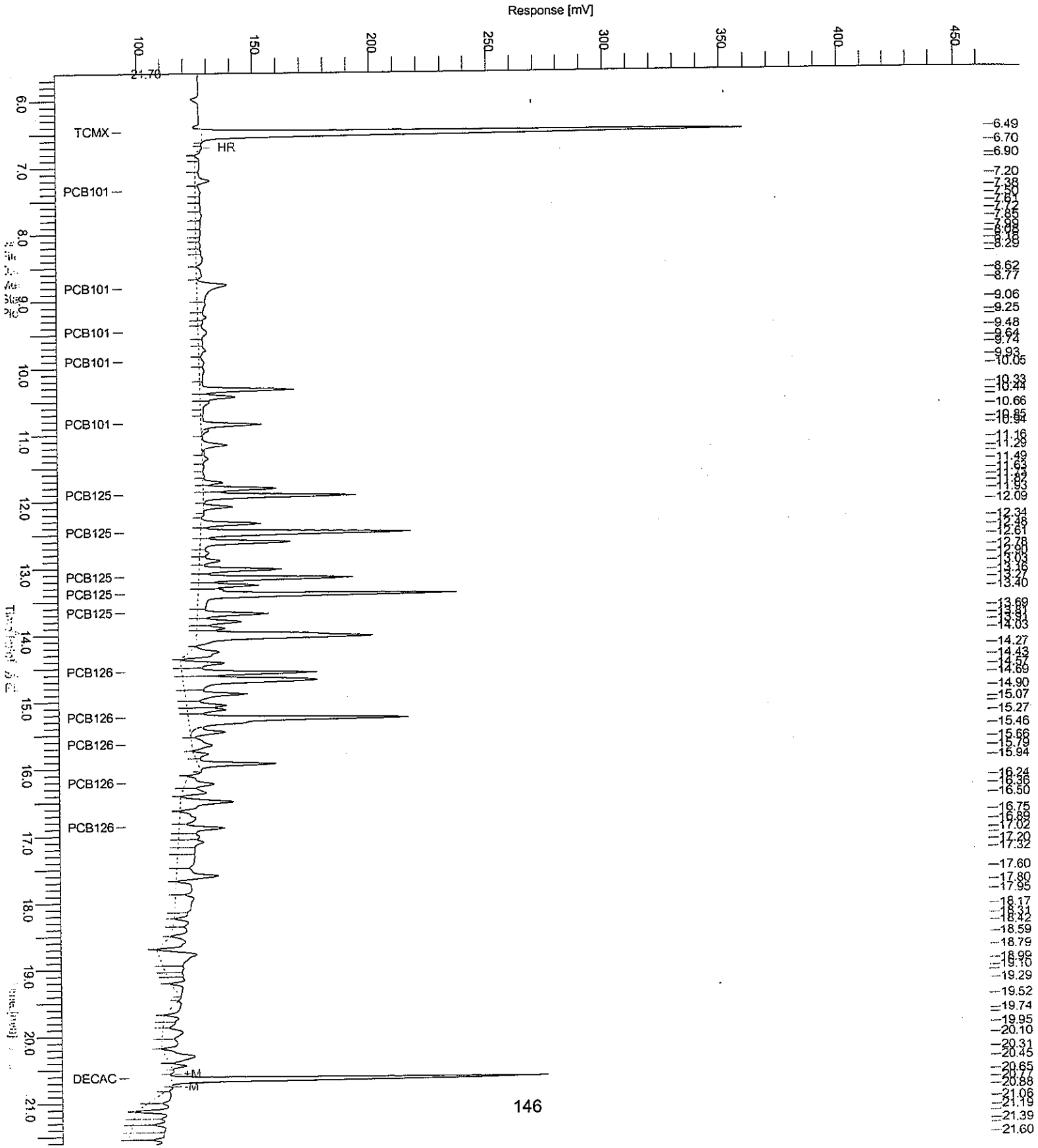
Report stored in ASCII file: G:\gc06\chb\334b027p.TX0

GC 06 Rtx-5

ample Name : qc274148,96948,ms
eName : G:\gc06\chb\334b027.raw
ate : 11/30/04 12:49:59 PM
ethod :
art Time : 5.60 min
ot Offset: 93.60 mV

Sample #: 96948

Time of Injection: 11/30/04 6:03:51 AM
End Time : 21.63 min
Plot Scale: 369.9 mV
Low Point : 93.60 mV
High Point : 463.54 mV

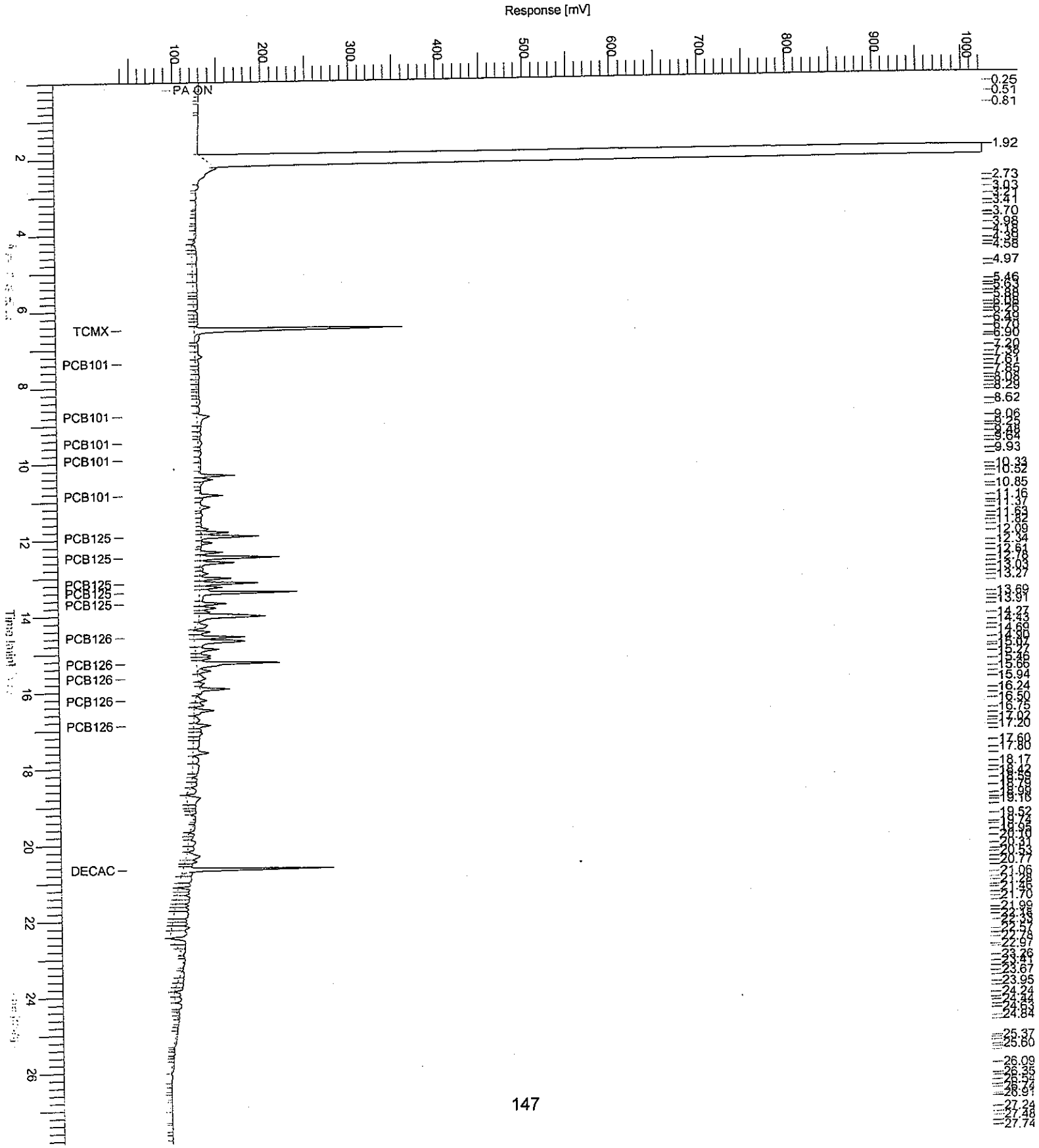


GC 06 Rtx-5

ımple Name : qc274148,96948,ms
eName : G:\gc06\chb\334b027
ate : 11/30/04 12:30:48 PM
ethod : gc06fsa1ul
art Time : 0.00 min End Time : 27.88 min
cale Factor: 1.0 Plot Offset: 38.93 mV

Sample #: 96948 Page 1 of 1

Time of Injection: 11/30/04 6:03:51 AM
Low Point : 38.93 mV High Point : 1024.00 mV
Plot Scale: 985.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274149,96948,msd
Instrument Name : gc06
Rack/Vial : 1/56
Sample Amount : 1.000000
Cycle : 56

Date : 12/1/04 1:26:51 PM
Data Acquisition Time : 11/30/04 10:08:16 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a056p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.693	820197.18	73.43	0.6761	1	49.65	9.93
Aroclor-1016	9.660	161162.05	100.19	0.6761	1	67.74	13.55
Aroclor-1254	13.907	1011027.76	1.01	0.6761	1	0.68	0.14
Aroclor-1260	16.333	144732.68	63.10	0.6761	1	42.67	8.53
Decachlorobiphenyl	21.667	670370.45	82.32	0.6761	1	55.66	11.13
		2807490.12	320.05			216.40	43.28

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.698	25874.96	107.54	0.6761	1	72.71	14.54
PCB1016#2	9.660	53617.05	116.22	0.6761	1	78.58	15.72
PCB1016#3	10.891	27307.92	53.54	0.6761	1	36.20	7.24
PCB1016#4	11.423	36523.38	158.41	0.6761	1	107.11	21.42
PCB1016#5	11.884	17838.74	107.45	0.6761	1	72.65	14.53
		161162.05	543.16			367.25	73.45

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.258	150906.43	416.87	0.6761	1	281.86	56.37
PCB1254#2	13.907	273344.56	416.13	0.6761	1	281.36	56.27
PCB1254#3	14.598	172263.21	438.88	0.6761	1	296.74	59.35
PCB1254#4	15.583	212691.84	464.35	0.6761	1	313.97	62.79
PCB1254#5	16.032	201821.72	427.99	0.6761	1	289.38	57.88
		1011027.76	2164.23			1463.31	292.66

12/1/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.000	24985.66	105.54	0.6761	1	71.36	14.27
PCB1260#2	16.333	43077.22	133.70	0.6761	1	90.40	18.08
PCB1260#3	16.982	17354.41	45.48	0.6761	1	30.75	6.15
PCB1260#4	17.595	24028.74	55.17	0.6761	1	37.30	7.46
PCB1260#5	18.336	35286.66	38.46	0.6761	1	26.00	5.20
		144732.68	378.34			255.81	51.16

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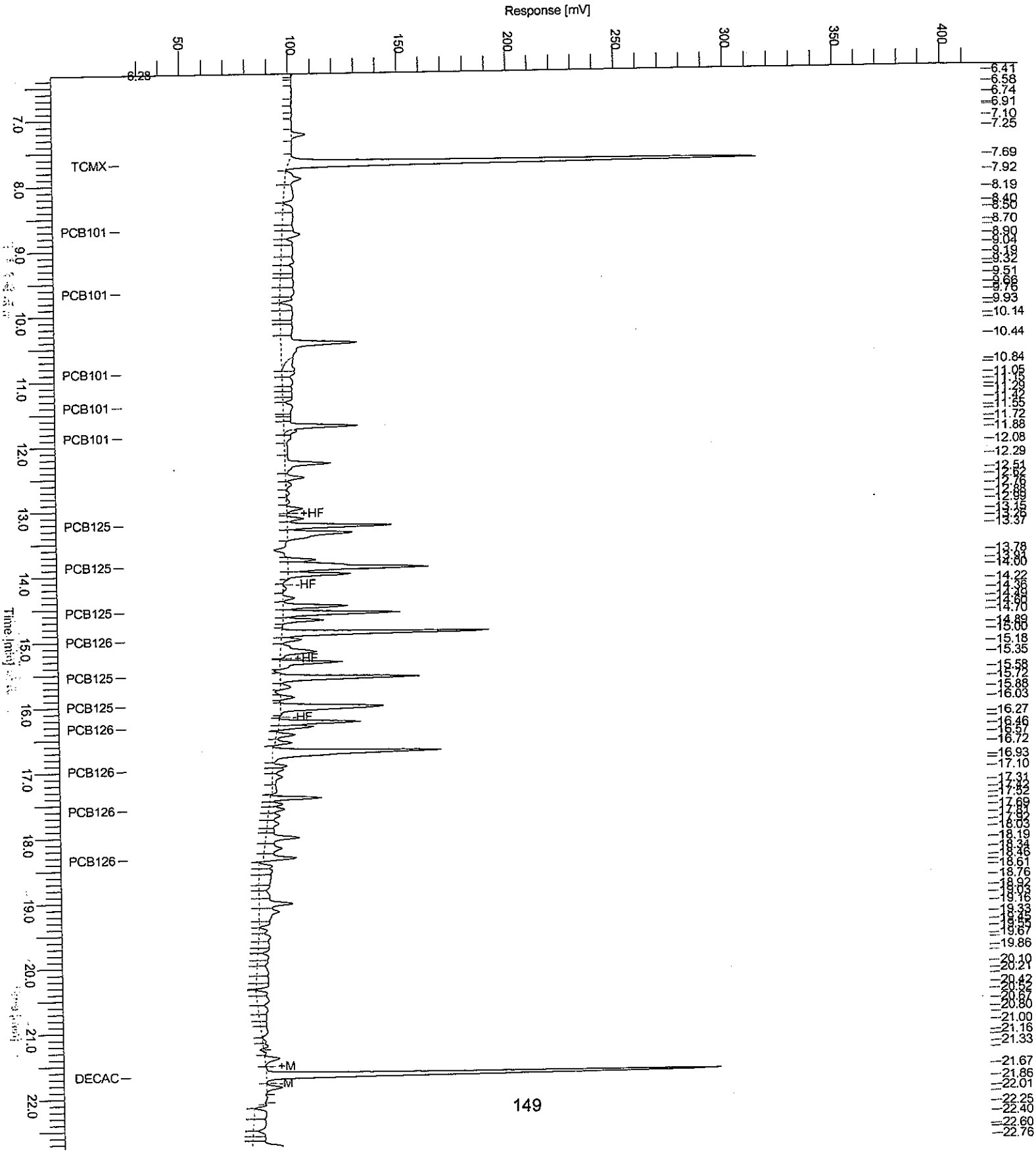
Report stored in ASCII file: G:\gc06\cha\334a056p.TX0

GC 06 Rtx-CLPesticides

ample Name : qc274149,96948,msd
leName : G:\gc06\cha\334a056.raw
ate : 12/1/04 1:26:56 PM
ethod :
art Time : 6.32 min
ot Offset: 21.61 mV

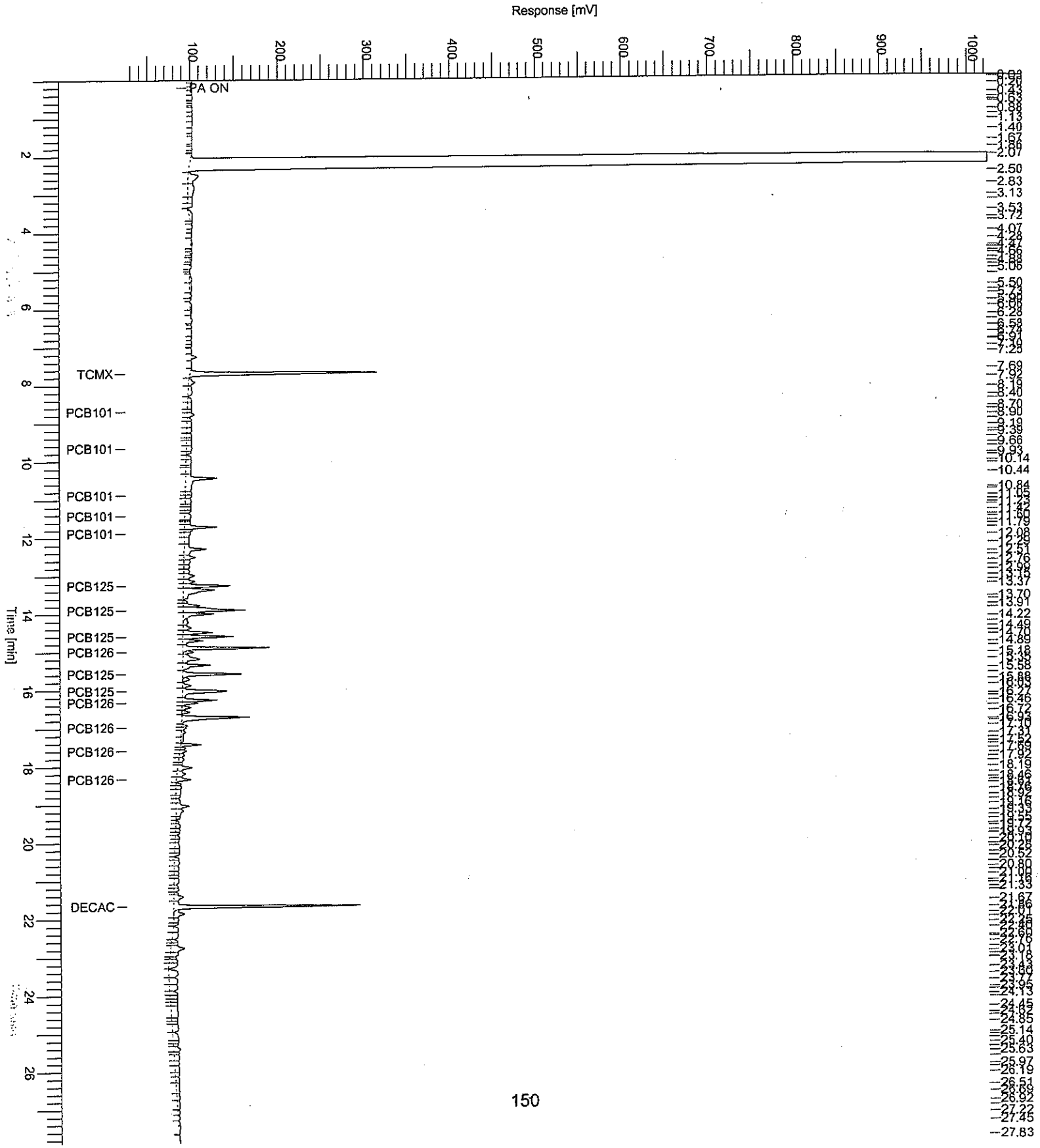
Sample #: 96948

Time of Injection: 11/30/04 10:08:16 PM
End Time : 22.76 min
Low Point : 21.61 mV
High Point : 419.14 mV
Plot Scale: 397.5 mV



GC 06 Rtx-CLPesticides

Sample Name : qc274149,96948,msd Sample #: 96948 Page 1 of 1
FileName : G:\gc06\cha\334a056.raw
Date : 12/1/04 1:18:04 PM
Method : gc06fsa1ul Time of Injection: 11/30/04 10:08:16 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 24.11 mV High Point : 1024.00 mV
Scale Factor: 1.0 Plot Offset: 24.11 mV Plot Scale: 999.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274149,96948,msd
Instrument Name : gc06
Rack/Vial : 1/56
Sample Amount : 1.000000
Cycle : 56

Date : 12/1/04 1:55:41 PM
Data Acquisition Time : 11/30/04 10:08:16 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b056p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.507	1358557.21	68.64	0.6761	1	46.41	9.28
Aroclor-1016	10.867	289364.79	83.60	0.6761	1	56.52	11.30
Aroclor-1254	13.413	1850038.32	1.85	0.6761	1	1.25	0.25
Aroclor-1260	15.267	1031436.02	204.04	0.6761	1	137.96	27.59
Decachlorobiphenyl	20.667	682359.32	72.42	0.6761	1	48.96	9.79
		5211755.67	430.54			291.10	58.22

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.390	48444.14	112.13	0.6761	1	75.81	15.16
PCB1016#2	8.840	0.00	0.00	0.6761	1	0.00	0.00
PCB1016#3	9.485	67122.67	44.08	0.6761	1	29.81	5.96
PCB1016#4	9.937	13206.73	31.43	0.6761	1	21.25	4.25
PCB1016#5	10.867	160591.25	323.84	0.6761	1	218.96	43.79
		289364.79	511.48			345.83	69.17

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.947	342173.61	415.95	0.6761	1	281.24	56.25
PCB1254#2	12.493	471489.17	427.67	0.6761	1	289.16	57.83
PCB1254#3	13.173	323355.09	452.10	0.6761	1	305.68	61.14
PCB1254#4	13.413	576566.17	463.24	0.6761	1	313.21	62.64
PCB1254#5	13.707	136454.29	488.79	0.6761	1	330.49	66.10
		1850038.32	2247.74			1519.77	303.95

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	214492.23	214.63	0.6761	1	145.12	29.02
PCB1260#2	15.267	475877.71	381.86	0.6761	1	258.19	51.64
PCB1260#3	15.669	106641.05	160.96	0.6761	1	108.83	21.77
PCB1260#4	16.244	102252.95	145.28	0.6761	1	98.23	19.65
PCB1260#5	16.899	132172.08	91.58	0.6761	1	61.92	12.38
		1031436.02	994.31			672.29	134.46

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Report stored in ASCII file: G:\gc06\chb\334b056p.TX0

GC 06 Rtx-5

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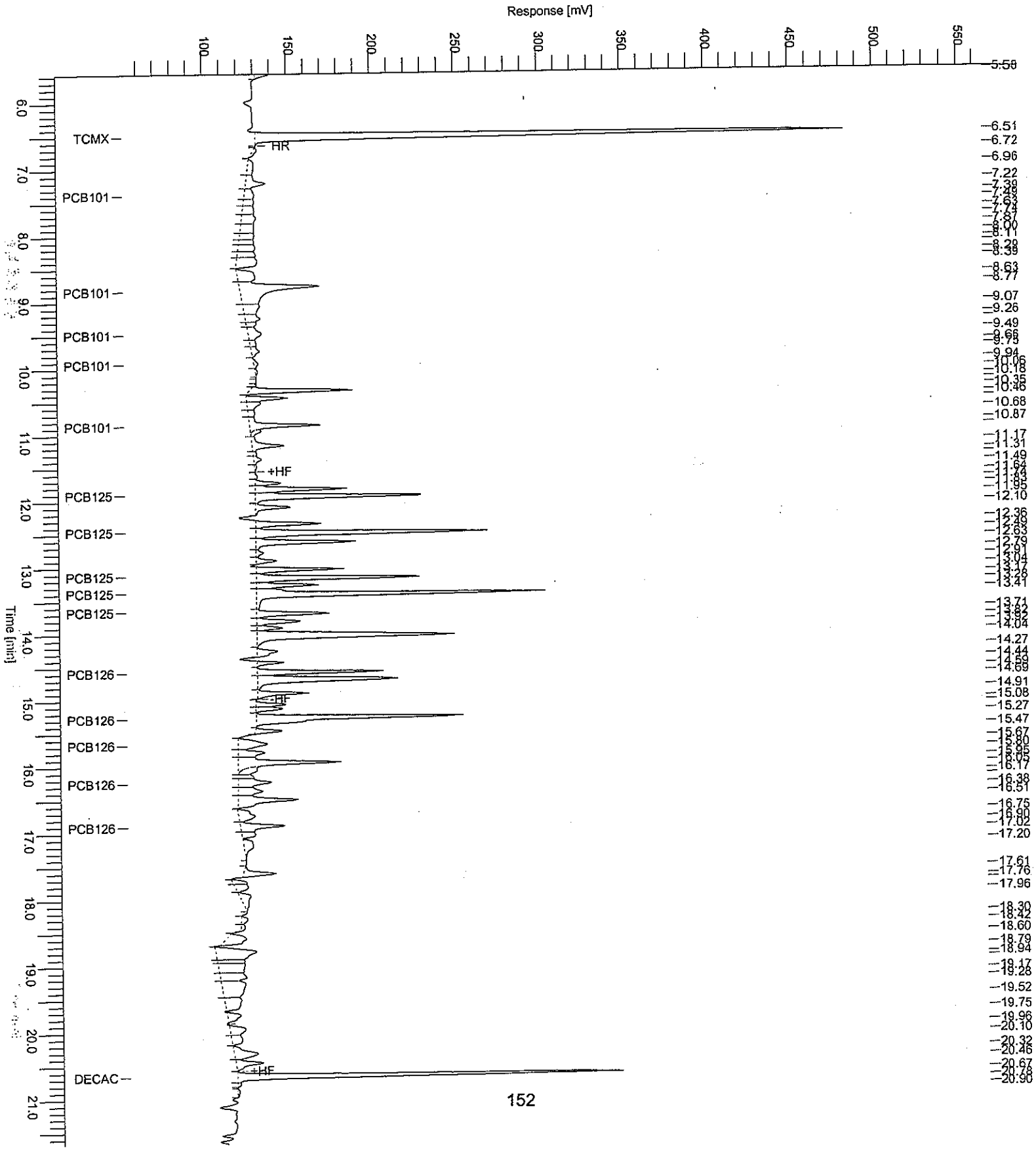
ate : 12/1/04 1:55:45 PM
lethod :
tart Time : 5.57 min
lot Offset: 51.95 mV

Sample #: 96948

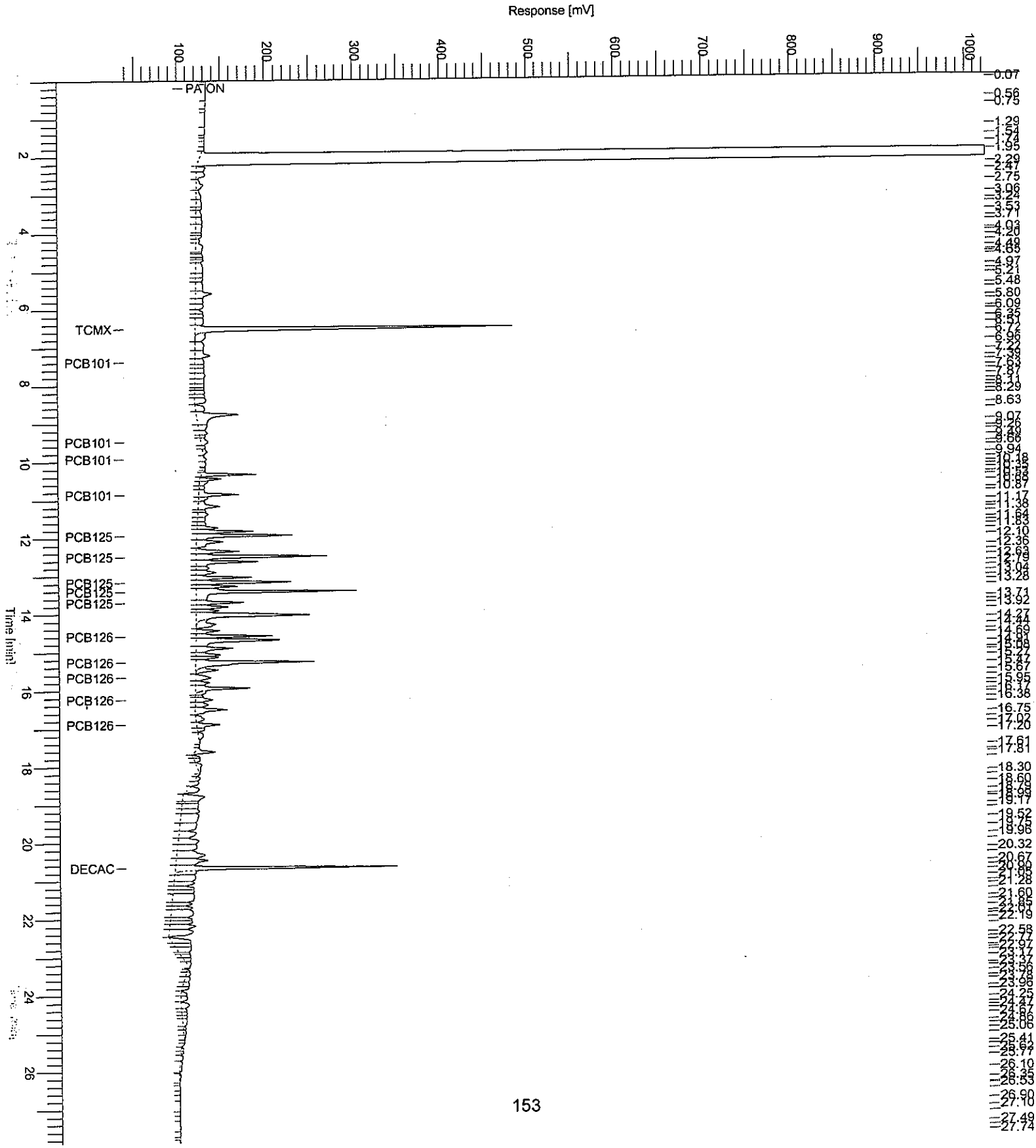
Page 1 of 1

Time of Injection: 11/30/04 10:08:16 PM
End Time : 21.68 min
Low Point : 51.95 mV
High Point : 566.55 mV
Plot Scale: 514.6 mV



GC 06 Rtx-5

ample Name : qc274149,96948,msd Sample #: 96948 Page 1 of 1
leName : G:\gc06\chb\334b056
ate : 12/1/04 1:18:38 PM
ethod : gc06fsa1ul Time of Injection: 11/30/04 10:08:16 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 38.09 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 38.09 mV Plot Scale: 985.9 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204481766014
Filename : 334_014
IDF : 1.0

Samplenum: 176248-003
Matrix : Soil
Batchnum : 96948

Cident : BB3EX153[0.5]
Acctnum : TREADWELL (SES)
Injected : 29-NOV-2004 22:52
Units : ug/Kg

Prep: 14.96 g --> 10.0 ml = 0.6684 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	B=334_023	Flags
Aroclor-1016	A	204456284001	ND			9.6		
Aroclor-1016 Peak # 1	A	204456284001	ND	5.44				
Aroclor-1016 Peak # 2	A	204456284001	ND	ND				
Aroclor-1016 Peak # 3.....A		204456284001	0.59	0.87	38%			
Aroclor-1016 Peak # 4.....A		204456284001	4.42	4.65	5%			
Aroclor-1016 Peak # 5.....A		204456284001	20.74	0.69	187%			
Aroclor-1221	A		ND			19		
Aroclor-1232	A		ND			9.6		
Aroclor-1242	A		ND			9.6		
Aroclor-1248	A		ND			9.6		
Aroclor-1254	A	204461493001	10	0.71	174%	9.6		?v x
Aroclor-1254 Peak # 1.....A		204461493001	48.67	ND				
Aroclor-1254 Peak # 2	A	204461493001	ND	0.21				
Aroclor-1254 Peak # 3	A	204461493001	ND	ND				
Aroclor-1254 Peak # 4	A	204461493001	ND	1.42				
Aroclor-1254 Peak # 5.....A		204461493001	2.14	1.92	11%			
Aroclor-1260	A	204456284001	ND			9.6		
Aroclor-1260 Peak # 1	A	204456284001	ND	3.30				
Aroclor-1260 Peak # 2.....A		204456284001	4.22	0.62	149%			
Aroclor-1260 Peak # 3.....A		204456284001	18.33	35.40	64%			
Aroclor-1260 Peak # 4.....A		204456284001	3.97	3.19	22%			
Aroclor-1260 Peak # 5.....A		204456284001	4.54	4.19	8%			

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	204456284001	33.42	33.27	100	65-135	>c-
Decachlorobiphenyl	A	204456284001	33.42	41.27	123	65-135	

-=low bias >=closing ?=missing c=CCV v=ICV out x=false positive

Analyst: _____ Date: 11/30/04 Reviewer: _____ Date: _____

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-003,96948
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/30/04 12:04:33 PM
Data Acquisition Time : 11/29/04 10:52:41 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a014p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	556001.68	49.78	0.6684	1	33.27	6.65
Aroclor-1016	11.839	7127.29	4.43	0.6684	1	2.96	0.59
Aroclor-1254	13.243	27865.43	0.03	0.6684	1	0.02	0.00
Aroclor-1260	17.001	21315.03	9.29	0.6684	1	6.21	1.24
Decachlorobiphenyl	21.680	502796.10	61.74	0.6684	1	41.27	8.25
		1115105.52	125.27			83.74	16.75

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	0.6684	1	0.00	0.00
PCB1016#2	9.623	0.00	0.00	0.6684	1	0.00	0.00
PCB1016#3	10.892	451.21	0.88	0.6684	1	0.59	0.12
PCB1016#4	11.409	1524.01	6.61	0.6684	1	4.42	0.88
PCB1016#5	11.839	5152.06	31.03	0.6684	1	20.74	4.15
		7127.29	38.53			25.75	5.15

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.243	26356.46	72.81	0.6684	1	48.67	9.73
PCB1254#2	13.869	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#3	14.562	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#4	15.547	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#5	16.024	1508.97	3.20	0.6684	1	2.14	0.43
		27865.43	76.01			50.81	10.16

11/30/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.966	0.00	0.00	0.6684	1	0.00	0.00
PCB1260#2	16.262	2035.42	6.32	0.6684	1	4.22	0.84
PCB1260#3	17.001	10462.65	27.42	0.6684	1	18.33	3.67
PCB1260#4	17.537	2588.02	5.94	0.6684	1	3.97	0.79
PCB1260#5	18.325	6228.95	6.79	0.6684	1	4.54	0.91
		21315.03	46.47			31.06	6.21

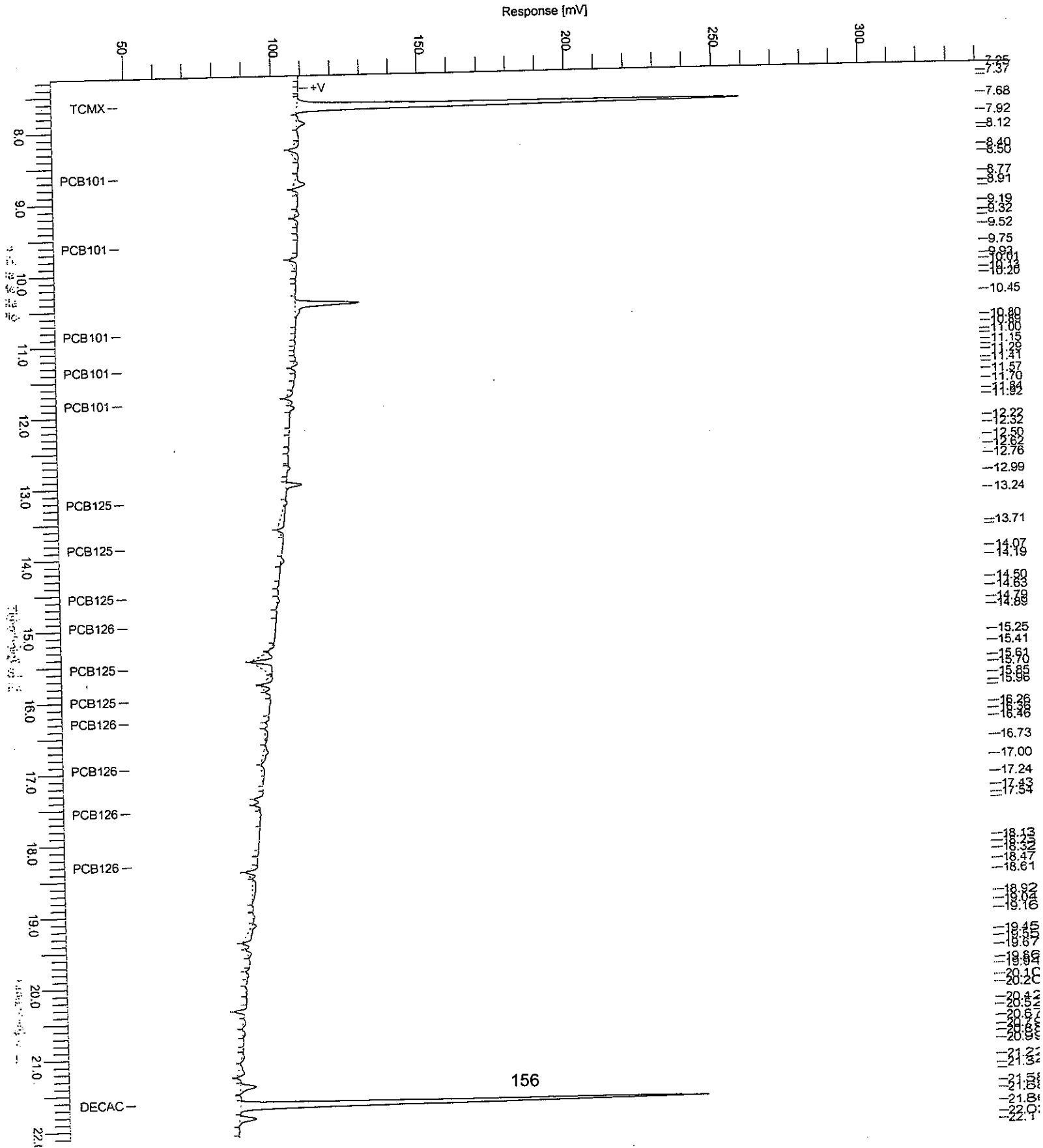
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a014p.TX0

GC 06 Rtx-CLPesticides

mple Name : 176248-003,96948 Sample #: 96948 Page 1 of 1
eName : G:\gc06\cha\334a014.raw
te : 11/30/04 12:04:37 PM
ethod :
art Time : 7.25 min End Time : 22.12 min Low Point : 47.91 mV High Point : 340.30 mV
t Offset: 47.91 mV Plot Scale: 292.4 mV

Time of Injection: 11/29/04 10:52:41 PM



GC 06 Rtx-CLPesticides

ample Name : 176248-003,96948 Sample #: 96948 Page 1 of 1
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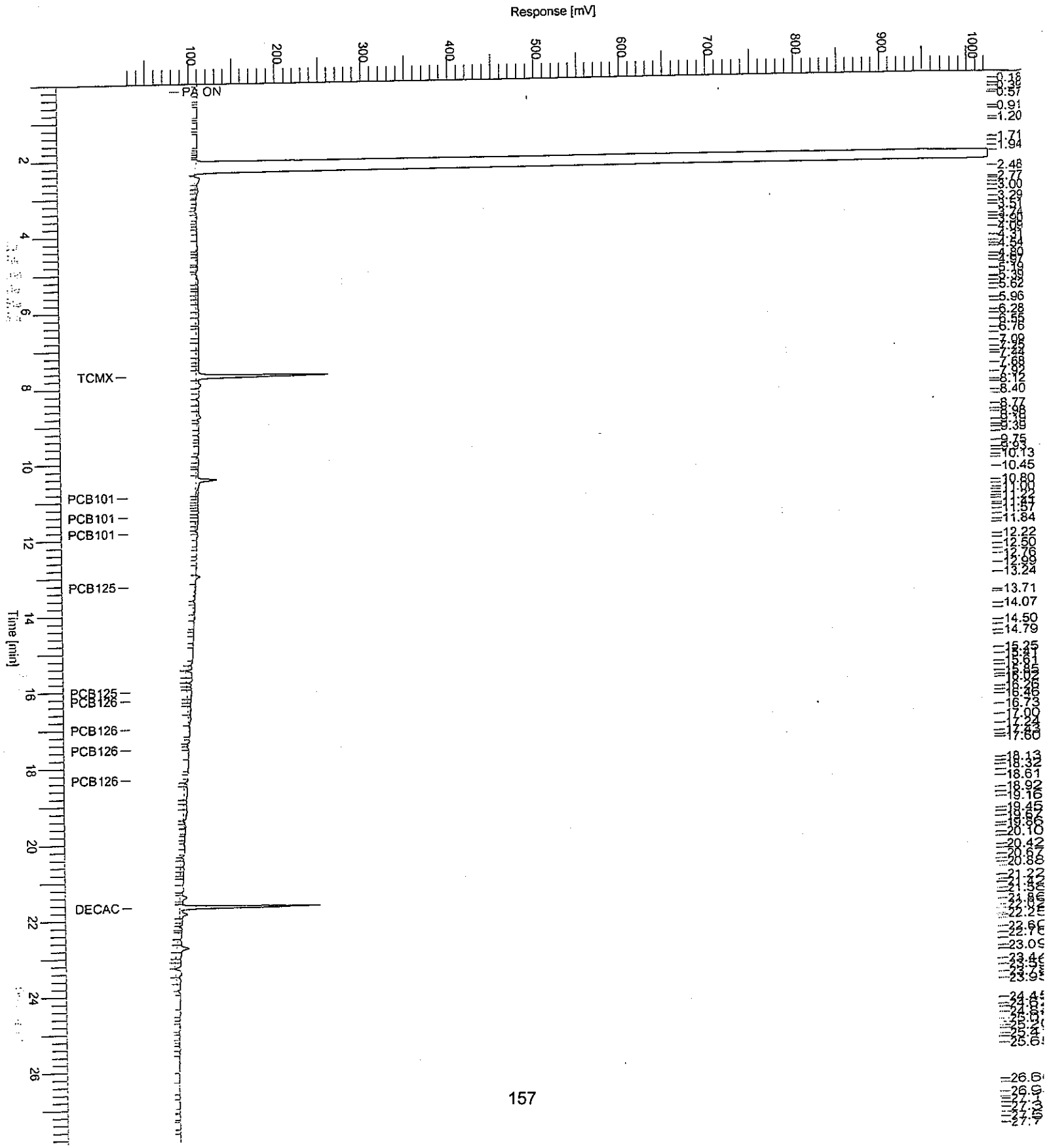
ate : 11/30/04 12:01:15 PM
ethod : gc06fsa1ul Time of Injection: 11/29/04 10:52:41 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 25.60 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 25.60 mV Plot Scale: 998.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-003,96948
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/30/04 12:08:38 PM
Data Acquisition Time : 11/29/04 10:52:41 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b014p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	934109.42	47.19	0.6684	1	31.55	6.31
Aroclor-1016	9.919	8940.74	2.58	0.6684	1	1.73	0.35
Aroclor-1254	13.395	3783.06	0.00	0.6684	1	0.00	0.00
Aroclor-1260	15.670	53577.14	10.60	0.6684	1	7.08	1.42
Decachlorobiphenyl	20.653	508905.23	54.01	0.6684	1	36.10	7.22
		1509315.59	114.39			76.46	15.29

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.369	3516.71	8.14	0.6684	1	5.44	1.09
PCB1016#2	8.814	0.00	0.00	0.6684	1	0.00	0.00
PCB1016#3	9.433	1987.53	1.31	0.6684	1	0.87	0.17
PCB1016#4	9.919	2921.90	6.95	0.6684	1	4.65	0.93
PCB1016#5	10.795	514.59	1.04	0.6684	1	0.69	0.14
		8940.74	17.44			11.66	2.33

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.907	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#2	12.474	340.83	0.31	0.6684	1	0.21	0.04
PCB1254#3	13.133	0.00	0.00	0.6684	1	0.00	0.00
PCB1254#4	13.395	2640.69	2.12	0.6684	1	1.42	0.28
PCB1254#5	13.702	801.54	2.87	0.6684	1	1.92	0.38
		3783.06	5.30			3.54	0.71

Group Report For : Aroclor-1260

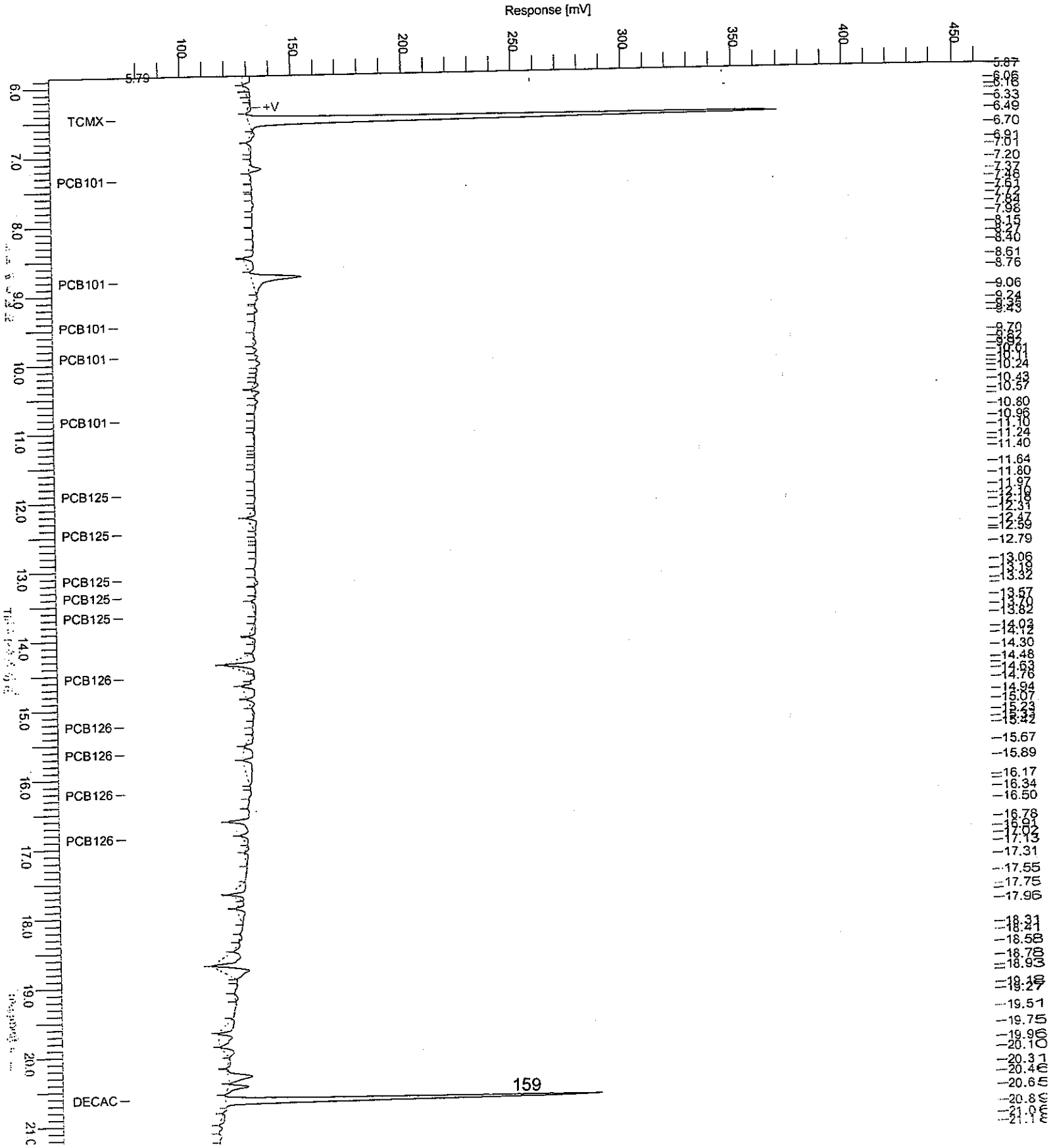
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.556	4940.68	4.94	0.6684	1	3.30	0.66
PCB1260#2	15.229	1150.47	0.92	0.6684	1	0.62	0.12
PCB1260#3	15.670	35087.40	52.96	0.6684	1	35.40	7.08
PCB1260#4	16.226	3356.15	4.77	0.6684	1	3.19	0.64
PCB1260#5	16.913	9042.44	6.27	0.6684	1	4.19	0.84
		53577.14	69.86			46.70	9.34

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\334b014p.TX0

GC 06 Rtx-5

nple Name : 176248-003,96948 Sample #: 96948 Page 1 of 1
eName : G:\gc06\chb\334b014.raw
te : 11/30/04 12:08:42 PM
thod :
Time of Injection: 11/29/04 10:52:41 PM
rt Time : 5.85 min End Time : 21.31 min Low Point : 71.03 mV High Point : 464.66 mV
t Offset: 71.03 mV Plot Scale: 393.6 mV



GC 06 Rtx-5

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ate : 11/30/04 12:01:50 PM
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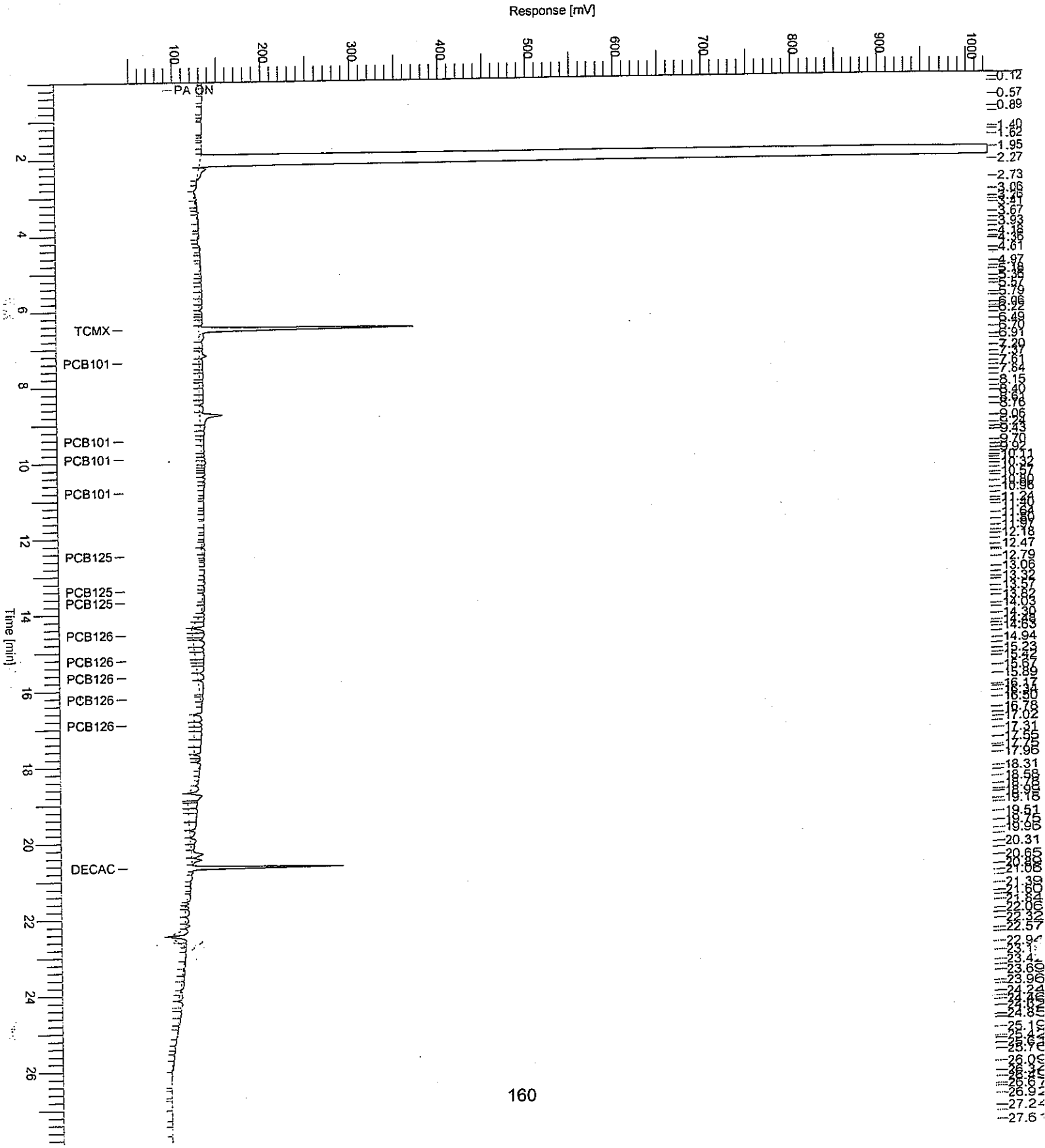
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 96948

Time of Injection: 11/29/04 10:52:41 PM
End Time : 27.88 min
Low Point : 41.00 mV
High Point : 1024.00 mV
Plot Offset: 41.00 mV
Plot Scale: 983.0 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06	Instid : GC06	Instid : GC06
Seqnum : 204481766014	Seqnum : 204481766027	Seqnum : 204481766028
Filename : 334_014	Filename : 334_027	Filename : 334_028
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-003	Samplenum: QC274148	Samplenum: QC274149
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96948	Batchnum : 96948	Batchnum : 96948
Inj : 29-NOV-2004 22:52	Inj : 30-NOV-2004 06:03	Inj : 30-NOV-2004 06:37
Units : ug/Kg		

MSS: 14.96 g --> 10.0 ml = 0.6684 ml/g PDF
MS: 14.87 g --> 10.0 ml = 0.6725 ml/g PDF
MSD: 14.79 g --> 10.0 ml = 0.6761 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim	%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND	A		ND	A						
Aroclor-1016 Peak # 2				ND	A		ND	A						
Aroclor-1016 Peak # 3				ND	A		ND	A						
Aroclor-1016 Peak # 4				ND	A		ND	A						
Aroclor-1016 Peak # 5				ND	A		ND	A						
Aroclor-1254	ND	A	169.0	208.3	A	124	313.4	A	185*	62-160	40*	39	?v	
Aroclor-1254 Peak # 1				185.8	A		284.0	A						
Aroclor-1254 Peak # 2				189.6	A		290.3	A						
Aroclor-1254 Peak # 3				186.3	A		297.9	A						
Aroclor-1254 Peak # 4				242.3	A		354.9	A						
Aroclor-1254 Peak # 5				237.8	A		339.8	A						
Aroclor-1260 Peak # 1				ND	A		ND	A						
Aroclor-1260 Peak # 2				ND	A		ND	A						
Aroclor-1260 Peak # 3				ND	A		ND	A						
Aroclor-1260 Peak # 4				ND	A		ND	A						
Aroclor-1260 Peak # 5				ND	A		ND	A						
TCMX			33.81	29.98	A	89	46.93	A	139	62-140	--		<c-	
Decachlorobiphenyl			33.81	37.44	A	111	57.70	A	171*	48-149	--			

NOT REPORTED

-=low bias <=opening ?=missing c=CCV v=ICV out

12/1/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc274149,96948,msd
Instrument Name : gc06
Rack/Vial : 1/28
Sample Amount : 1.000000
Cycle : 28

Date : 11/30/04 12:42:41 PM
Data Acquisition Time : 11/30/04 6:37:04 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a028p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.667	775282.88	69.41	0.6761	1	46.93	9.39
Aroclor-1016	9.644	123034.37	76.49	0.6761	1	51.72	10.34
Aroclor-1254	15.569	1084442.62	1.08	0.6761	1	0.73	0.15
Aroclor-1260	16.320	183727.43	80.11	0.6761	1	54.16	10.83
Decachlorobiphenyl	21.667	694940.52	85.33	0.6761	1	57.70	11.54
		2861427.82	312.42			211.24	42.25

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.682	23414.58	97.32	0.6761	1	65.80	13.16
PCB1016#2	9.644	40351.74	87.47	0.6761	1	59.14	11.83
PCB1016#3	10.876	21319.10	41.80	0.6761	1	28.26	5.65
PCB1016#4	11.405	25836.80	112.06	0.6761	1	75.77	15.15
PCB1016#5	11.885	12112.15	72.95	0.6761	1	49.33	9.87
		123034.37	411.60			278.29	55.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.244	152055.76	420.05	0.6761	1	284.01	56.80
PCB1254#2	13.890	282032.11	429.35	0.6761	1	290.30	58.06
PCB1254#3	14.584	172913.63	440.54	0.6761	1	297.86	59.57
PCB1254#4	15.569	240455.63	524.97	0.6761	1	354.95	70.99
PCB1254#5	16.019	236985.49	502.56	0.6761	1	339.80	67.96
		1084442.62	2317.47			1566.92	313.38

11/30/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.987	24000.20	101.38	0.6761	1	68.55	13.71
PCB1260#2	16.320	50106.74	155.51	0.6761	1	105.15	21.03
PCB1260#3	16.969	11538.19	30.24	0.6761	1	20.45	4.09
PCB1260#4	17.583	29806.06	68.43	0.6761	1	46.27	9.25
PCB1260#5	18.325	68276.24	74.42	0.6761	1	50.31	10.06
		183727.43	429.98			290.72	58.14

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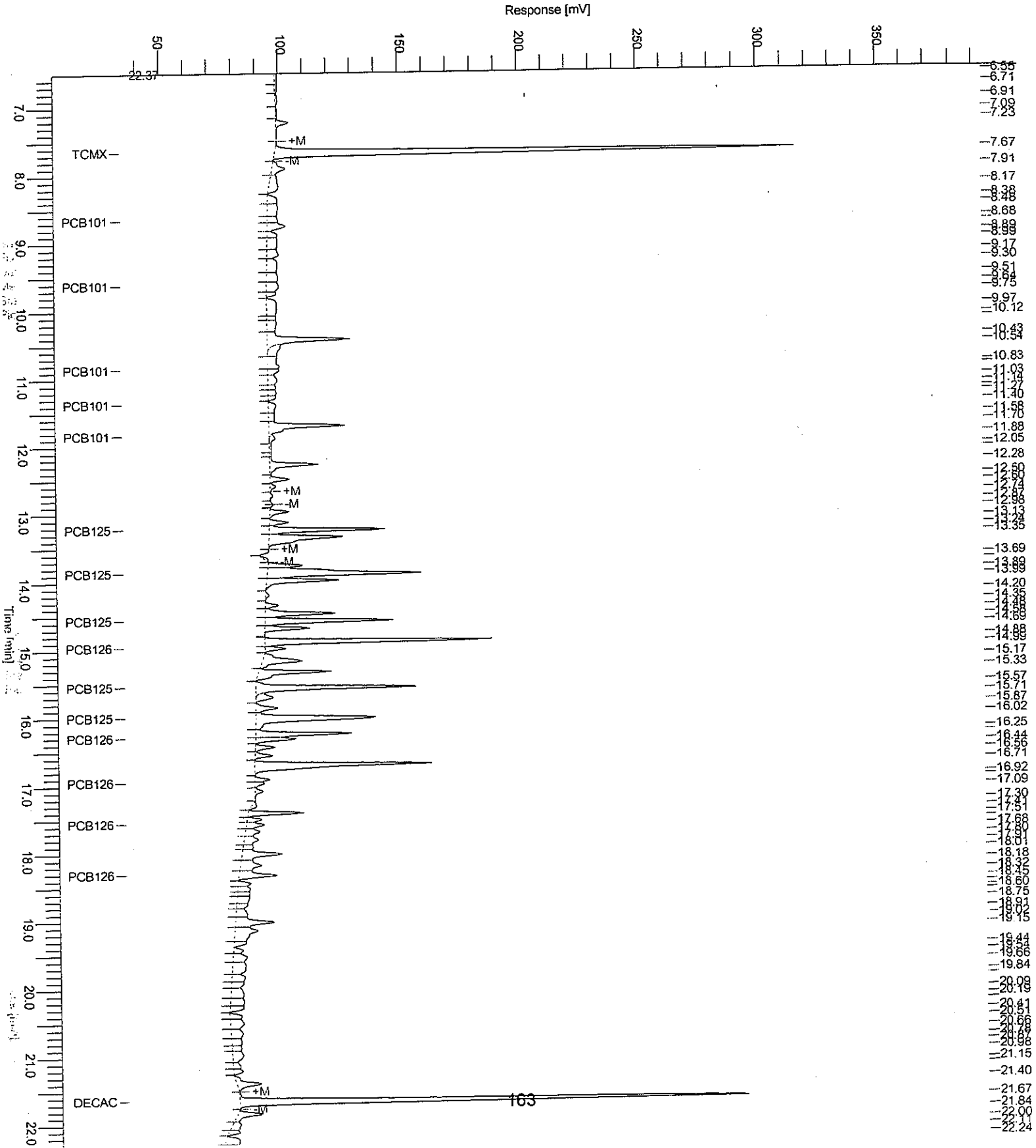
Report stored in ASCII file: G:\gc06\cha\334a028p.TX0

GC 06 Rtx-CLPesticides

ample Name : qc274149,96948,msd
leName : G:\gc06\cha\334a028.raw
ate : 11/30/04 12:42:45 PM
ethod :
art Time : 6.51 min
ot Offset: 33.45 mV

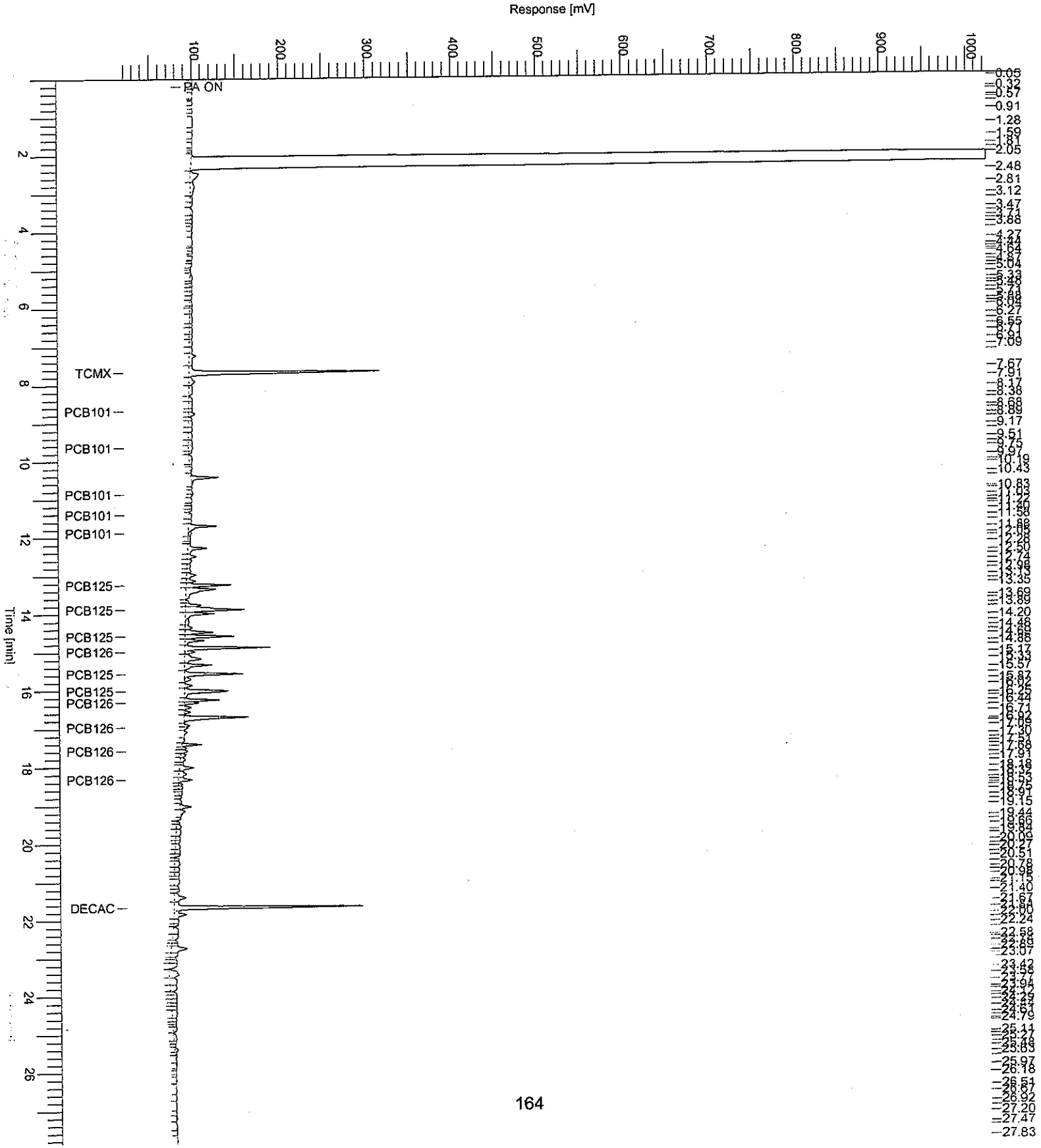
Sample #: 96948

Time of Injection: 11/30/04 6:37:04 AM
End Time : 22.29 min
Plot Scale: 360.8 mV
Low Point : 33.45 mV
High Point : 394.28 mV



GC 06 Rtx-CLPesticides

ample Name : qc274149,96948,msd Sample #: 96948 Page 1 of 1
iteName : G:\gc06\cha\334a028.raw
ate : 11/30/04 12:29:56 PM
ethod : gc06fsa1ul Time of Injection: 11/30/04 6:37:04 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 19.32 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 19.32 mV Plot Scale: 1004.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274149,96948,msd
Instrument Name : gc06
Rack/Vial : 1/28
Sample Amount : 1.000000
Cycle : 28

Date : 11/30/04 12:50:44 PM
Data Acquisition Time : 11/30/04 6:37:04 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b028p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.480	1312844.43	66.33	0.6761	1	44.85	8.97
Aroclor-1016	10.853	227219.81	65.64	0.6761	1	44.38	8.88
Aroclor-1254	13.400	1774773.86	1.77	0.6761	1	1.20	0.24
Aroclor-1260	15.253	1237746.42	244.85	0.6761	1	165.55	33.11
Decachlorobiphenyl	20.653	681489.00	72.32	0.6761	1	48.90	9.78
		5234073.51	450.92			304.88	60.98

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.373	18421.34	42.64	0.6761	1	28.83	5.77
PCB1016#2	8.814	0.00	0.00	0.6761	1	0.00	0.00
PCB1016#3	9.471	57129.16	37.52	0.6761	1	25.37	5.07
PCB1016#4	9.924	11564.81	27.53	0.6761	1	18.61	3.72
PCB1016#5	10.853	140104.50	282.53	0.6761	1	191.03	38.21
		227219.81	390.21			263.83	52.77

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.920	326607.31	397.03	0.6761	1	268.44	53.69
PCB1254#2	12.480	451138.93	409.21	0.6761	1	276.68	55.34
PCB1254#3	13.160	315200.64	440.70	0.6761	1	297.97	59.59
PCB1254#4	13.400	552632.85	444.01	0.6761	1	300.21	60.04
PCB1254#5	13.693	129194.12	462.78	0.6761	1	312.90	62.58
		1774773.86	2153.72			1456.20	291.24

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	283047.60	283.23	0.6761	1	191.50	38.30
PCB1260#2	15.253	633025.40	507.96	0.6761	1	343.45	68.69
PCB1260#3	15.657	99677.01	150.45	0.6761	1	101.73	20.35
PCB1260#4	16.232	85310.79	121.21	0.6761	1	81.95	16.39
PCB1260#5	16.890	136685.62	94.71	0.6761	1	64.03	12.81
		1237746.42	1157.55			782.66	156.53

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\334b028p.TX0

GC 06 Rtx-5

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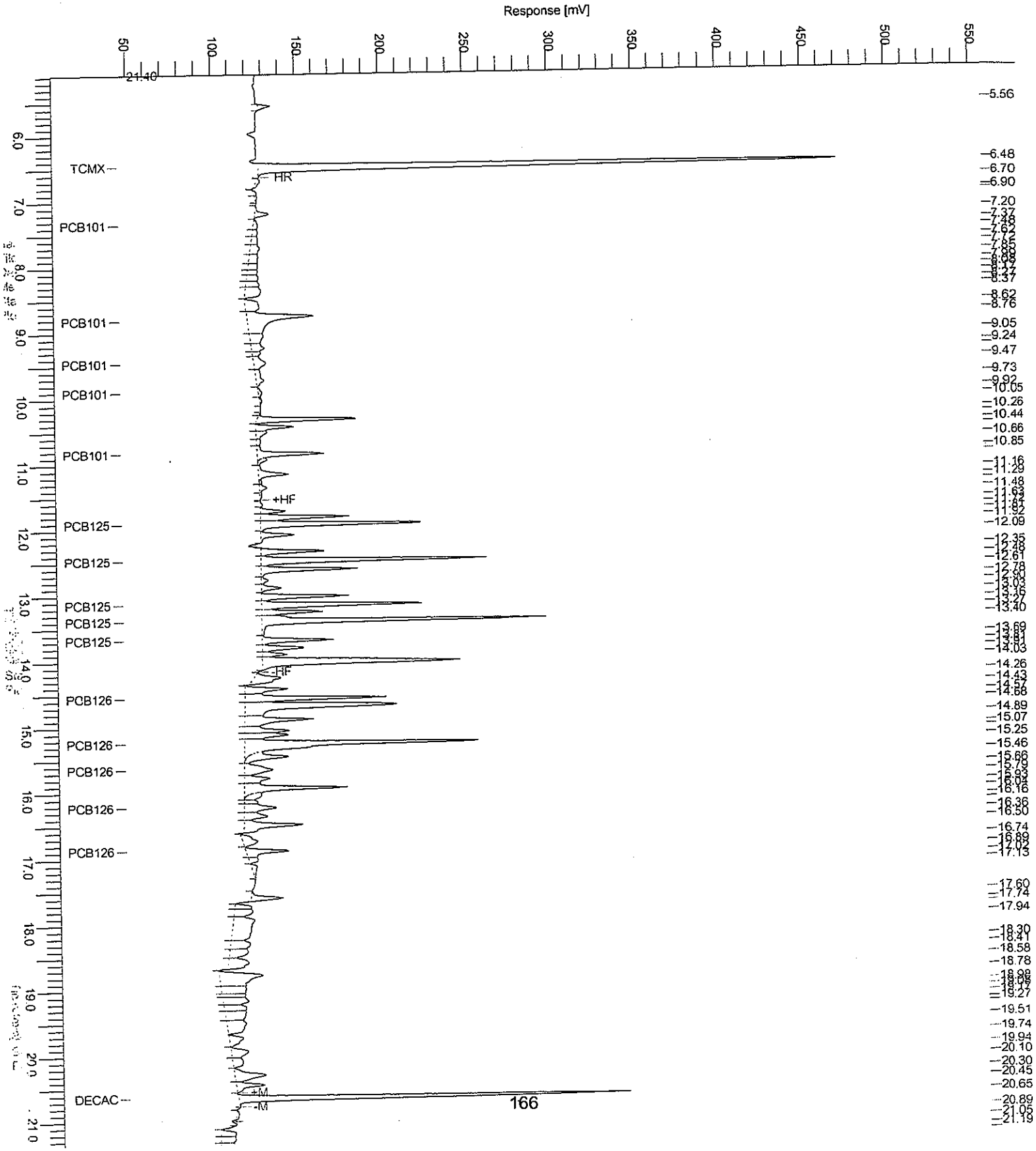
art Time : 5.08 min
ot Offset: 45.13 mV

Sample #: 96948

Time of Injection: 11/30/04 6:37:04 AM
End Time : 21.36 min
Low Point : 45.13 mV
High Point : 557.91 mV
Plot Scale: 512.8 mV



GC 06 Rtx-5

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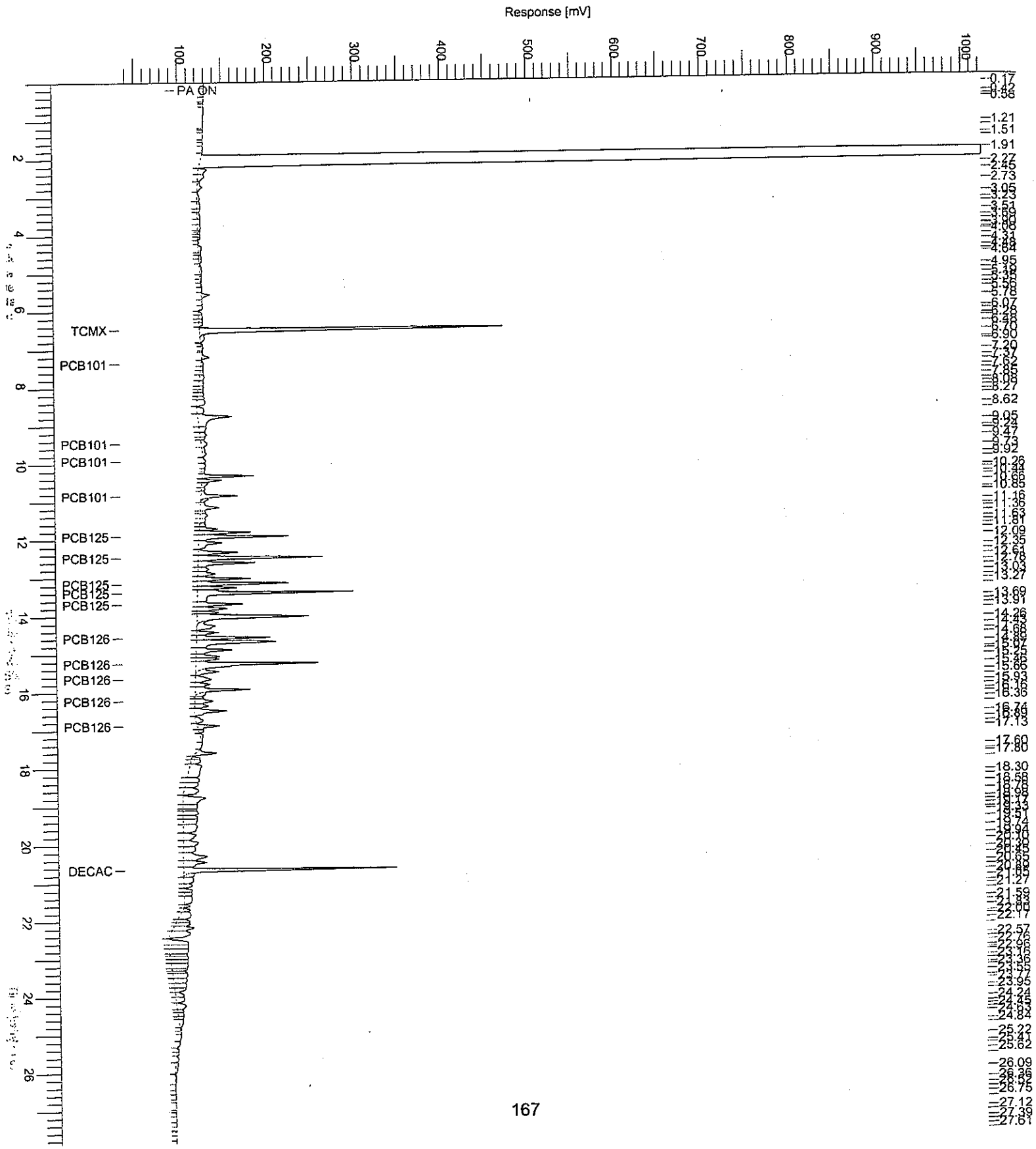
thod : gc06fsa1ul
rt Time : 0.00 min End Time : 27.88 min
ale Factor: 1.0 Plot Offset: 31.29 mV

Sample #: 96948 Page 1 of 1

Time of Injection: 11/30/04 6:37:04 AM
Low Point : 31.29 mV High Point : 1024.00 mV
Plot Scale: 992.7 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06	Instid : GC06	Instid : GC06
Seqnum : 204481766015	Seqnum : 204481766029	Seqnum : 204481766030
Filename : 334_015	Filename : 334_029	Filename : 334_030
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-005	Samplenum: QC274150	Samplenum: QC274151
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96948	Batchnum : 96948	Batchnum : 96948
Inj : 29-NOV-2004 23:25	Inj : 30-NOV-2004 07:10	Inj : 30-NOV-2004 07:43
Units : ug/Kg		

MSS: 14.99 g --> 10.0 ml = 0.6671 ml/g PDF
MS: 15.22 g --> 10.0 ml = 0.657 ml/g PDF
MSD: 15.07 g --> 10.0 ml = 0.6636 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim	%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND	A		ND	A						
Aroclor-1016 Peak # 2				ND	A		ND	A						
Aroclor-1016 Peak # 3				ND	A		ND	A						
Aroclor-1016 Peak # 4				ND	A		ND	A						
Aroclor-1016 Peak # 5				ND	A		ND	A						
Aroclor-1254	ND	A	165.9	253.7	A	154	288.9	A	174*	62-160	12	39		?v
Aroclor-1254 Peak # 1				237.0	A		285.0	A						
Aroclor-1254 Peak # 2				237.2	A		282.0	A						
Aroclor-1254 Peak # 3				240.9	A		284.4	A						
Aroclor-1254 Peak # 4				285.9	A		300.8	A						
Aroclor-1254 Peak # 5				267.7	A		292.3	A						
Aroclor-1260 Peak # 1				ND	A		ND	A						
Aroclor-1260 Peak # 2				ND	A		ND	A						
Aroclor-1260 Peak # 3				ND	A		ND	A						
Aroclor-1260 Peak # 4				ND	A		ND	A						
Aroclor-1260 Peak # 5				ND	A		ND	A						
TCMX			33.18	101.7	A	310*	42.40	A	128	62-140	--			<c-
Decachlorobiphenyl			33.18	55.87	A	170*	54.17	A	163*	48-149	--			

-=low bias <=opening ?=missing c=CCV v=ICV out

12/1/04

12/1/04

Software Version : 6.1.2.0.1:D19
Sample Name : qc274150,96948,ms
Instrument Name : gc06
Rack/Vial : 1/29
Sample Amount : 1.000000
Cycle : 29

Date : 11/30/04 12:44:23 PM
Data Acquisition Time : 11/30/04 7:10:10 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a029p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	1729490.79	154.83	0.6570	1	101.73	20.35
Aroclor-1016	9.667	376526.43	234.08	0.6570	1	153.79	30.76
Aroclor-1254	15.573	903092.59	0.90	0.6570	1	0.59	0.12
Aroclor-1260	16.322	135957.10	59.28	0.6570	1	38.95	7.79
Decachlorobiphenyl	21.667	692533.66	85.04	0.6570	1	55.87	11.17
		3837600.57	534.13			350.94	70.19

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#2	9.667	241523.68	523.54	0.6570	1	343.98	68.80
PCB1016#3	10.827	135002.75	264.69	0.6570	1	173.91	34.78
PCB1016#4	11.370	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#5	11.841	0.00	0.00	0.6570	1	0.00	0.00
		376526.43	788.22			517.89	103.58

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.252	130581.21	360.73	0.6570	1	237.01	47.40
PCB1254#2	13.893	237163.89	361.05	0.6570	1	237.22	47.44
PCB1254#3	14.588	143910.63	366.65	0.6570	1	240.90	48.18
PCB1254#4	15.573	199337.56	435.20	0.6570	1	285.94	57.19
PCB1254#5	16.022	192099.31	407.37	0.6570	1	267.65	53.53
		903092.59	1930.99			1268.72	253.74

11/30/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.991	37512.56	158.45	0.6570	1	104.11	20.82
PCB1260#2	16.322	39829.60	123.62	0.6570	1	81.22	16.24
PCB1260#3	16.922	3667.44	9.61	0.6570	1	6.32	1.26
PCB1260#4	17.588	16840.37	38.66	0.6570	1	25.40	5.08
PCB1260#5	18.329	38107.12	41.53	0.6570	1	27.29	5.46
		135957.10	371.88			244.34	48.87

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a029p.TX0

GC 06 Rtx-CLPesticides

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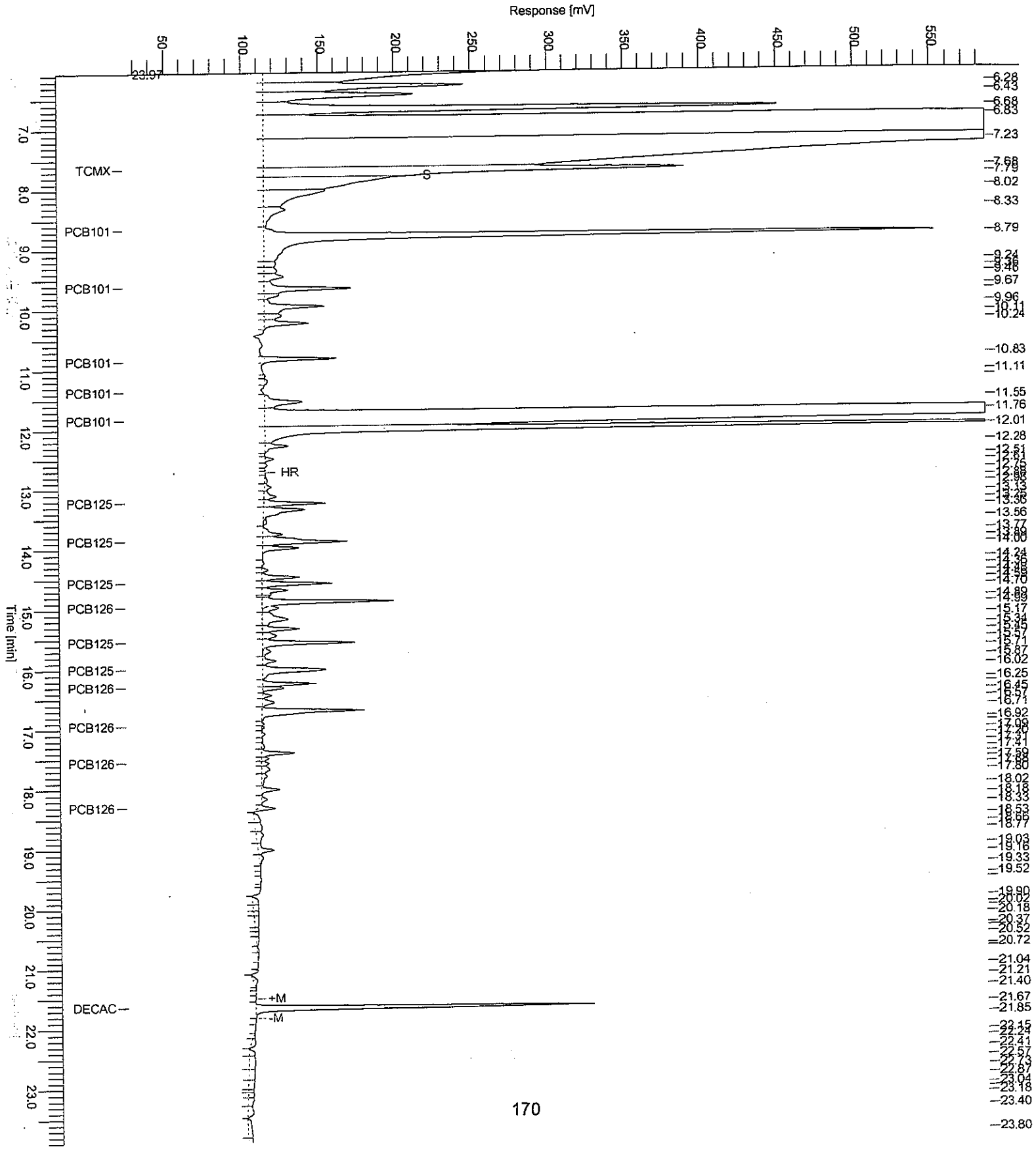
lethod :
tart Time : 6.07 min
lot Offset: 23.66 mV

Sample #: 96948

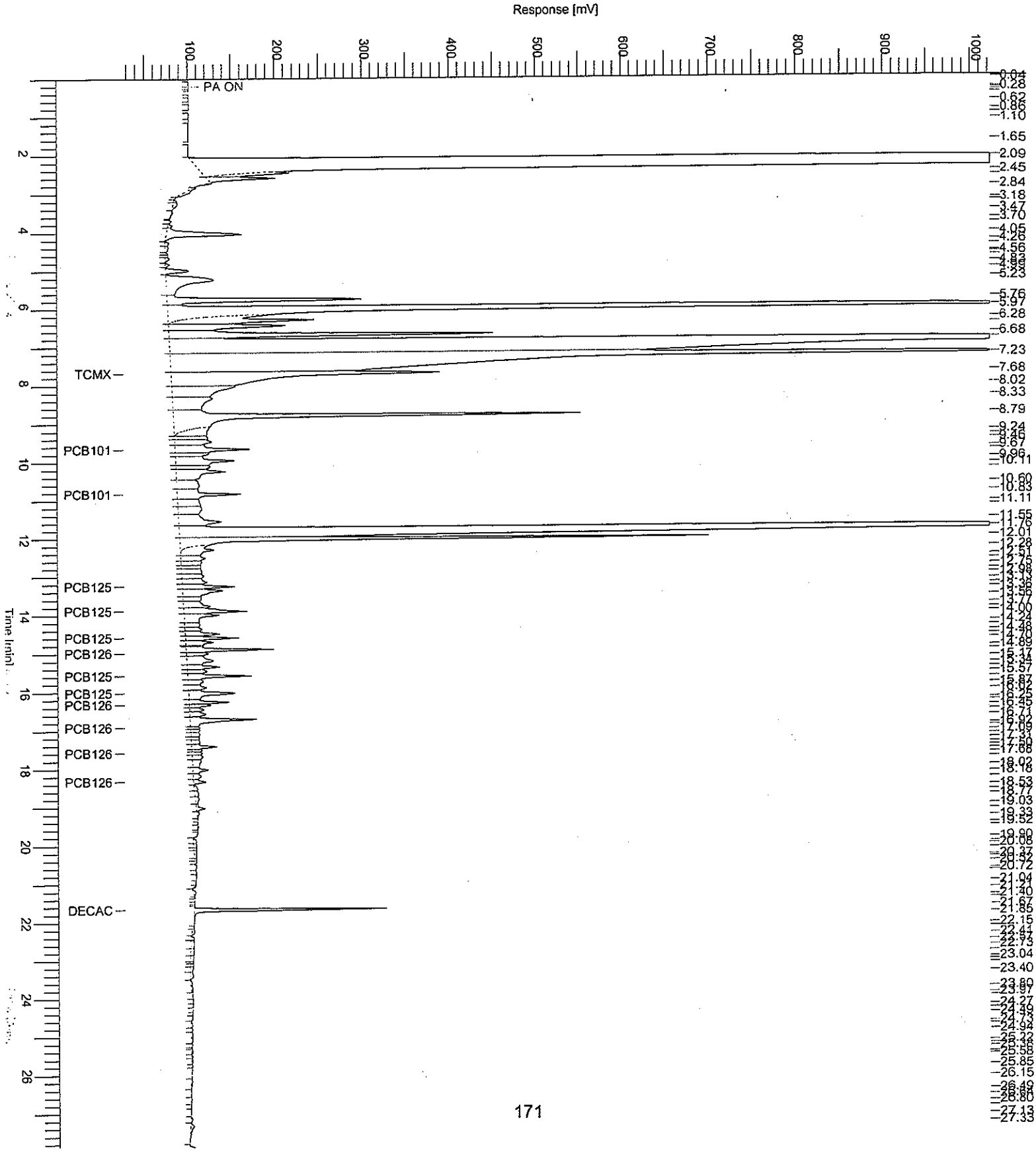
Page 1 of 1

Time of Injection: 11/30/04 7:10:10 AM
End Time : 23.91 min
Low Point : 23.66 mV
High Point : 585.79 mV
Plot Scale: 562.1 mV



GC 06 Rtx-CLPesticides

ample Name : qc274150,96948,ms Sample #: 96948 Page 1 of 1
ileName : G:\gc06\cha\334a029.raw
ate : 11/30/04 12:30:02 PM
lethod : gc06fsa1ul Time of Injection: 11/30/04 7:10:10 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 26.16 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 26.16 mV Plot Scale: 997.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274150,96948,ms
Instrument Name : gc06
Rack/Vial : 1/29
Sample Amount : 1.000000
Cycle : 29

Date : 11/30/04 12:51:55 PM
Data Acquisition Time : 11/30/04 7:10:10 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b029p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.507	808831.76	40.87	0.6570	1	26.85	5.37
Aroclor-1016	8.787	439557.21	126.99	0.6570	1	83.43	16.69
Aroclor-1254	13.400	1188785.23	1.19	0.6570	1	0.78	0.16
Aroclor-1260	15.267	615589.21	121.77	0.6570	1	80.01	16.00
Decachlorobiphenyl	20.653	756662.60	80.30	0.6570	1	52.76	10.55
		3809426.01	371.12			243.83	48.77

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.351	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#2	8.787	210364.58	356.12	0.6570	1	233.98	46.80
PCB1016#3	9.507	8813.08	5.79	0.6570	1	3.80	0.76
PCB1016#4	9.947	16413.25	39.07	0.6570	1	25.67	5.13
PCB1016#5	10.853	203966.31	411.31	0.6570	1	270.24	54.05
		439557.21	812.28			533.70	106.74

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	217389.84	264.26	0.6570	1	173.63	34.73
PCB1254#2	12.480	301605.89	273.57	0.6570	1	179.75	35.95
PCB1254#3	13.160	202638.01	283.32	0.6570	1	186.15	37.23
PCB1254#4	13.400	387599.37	311.41	0.6570	1	204.61	40.92
PCB1254#5	13.693	79552.12	284.96	0.6570	1	187.23	37.45
		1188785.23	1417.53			931.36	186.27

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	157367.36	157.47	0.6570	1	103.46	20.69
PCB1260#2	15.267	382971.12	307.31	0.6570	1	201.91	40.38
PCB1260#3	15.667	1814.60	2.74	0.6570	1	1.80	0.36
PCB1260#4	16.240	27193.13	38.64	0.6570	1	25.39	5.08
PCB1260#5	16.893	46243.00	32.04	0.6570	1	21.05	4.21
		615589.21	538.19			353.61	70.72

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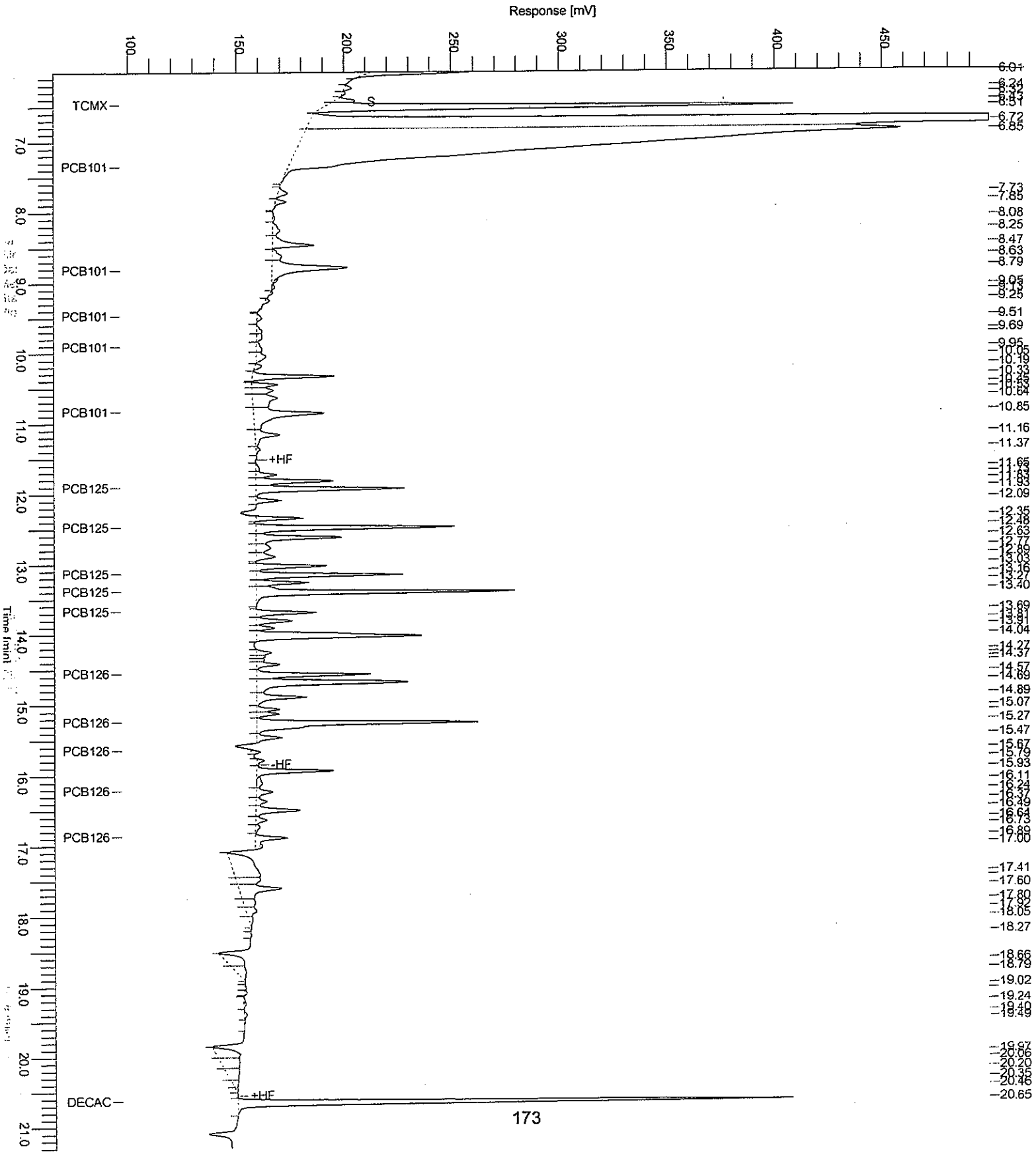
Report stored in ASCII file: G:\gc06\chb\334b029p.TX0

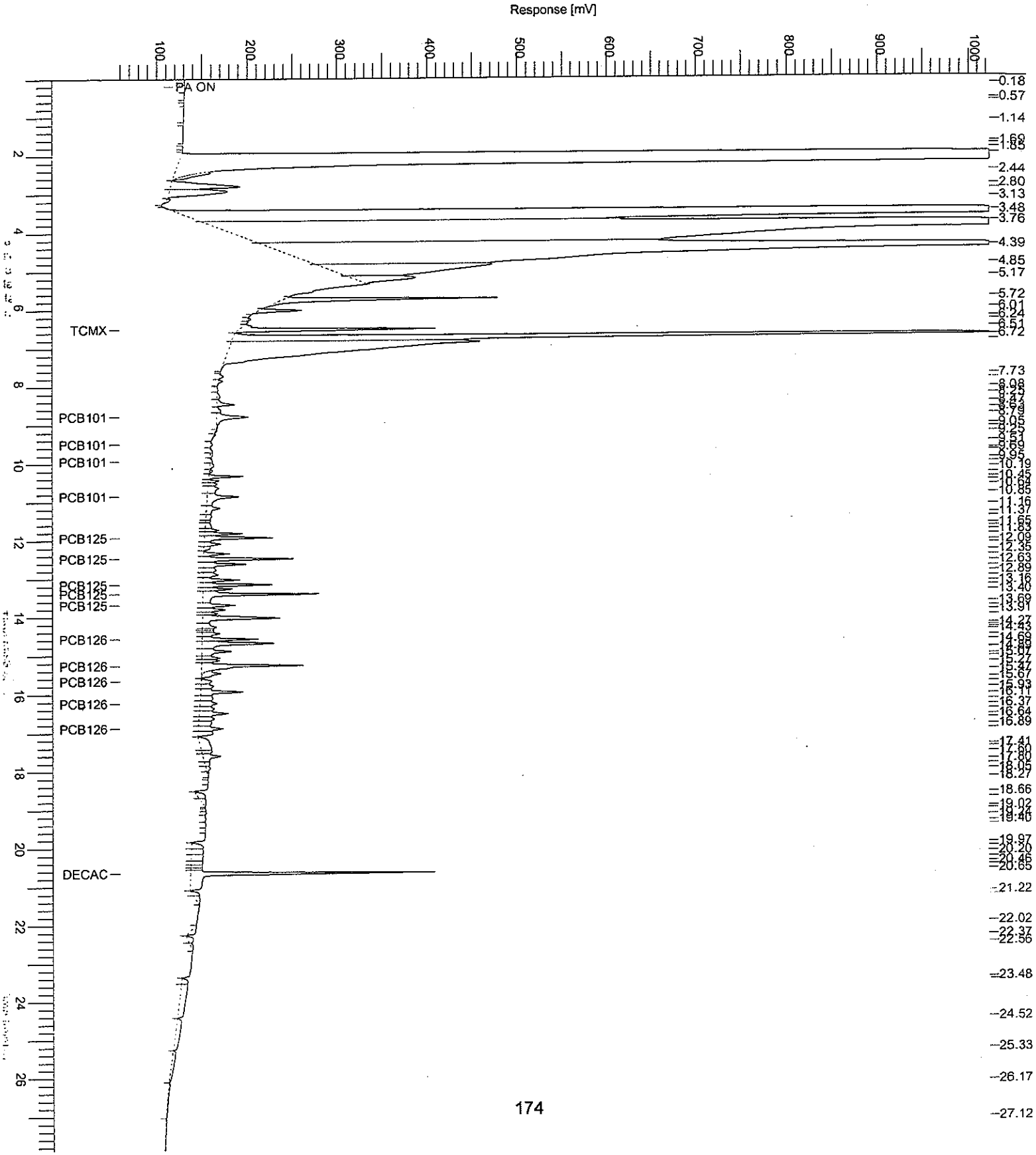
GC 06 Rtx-5

ample Name : qc274150,96948,ms Sample #: 96948 Page 1 of 1
ileName : G:\gc06\chb\334b029.raw
ate : 11/30/04 12:52:00 PM
lethod : Time of Injection: 11/30/04 7:10:10 AM
tart Time : 6.01 min End Time : 21.31 min Low Point : 96.17 mV High Point : 498.78 mV
lot Offset: 96.17 mV Plot Scale: 402.6 mV



GC 06 Rtx-5

ample Name : qc274150,96948,ms Sample #: 96948 Page 1 of 1
leName : G:\gc06\chb\334b029
ate : 11/30/04 12:30:59 PM
ethod : gc06fsa1ul Time of Injection: 11/30/04 7:10:10 AM
art Time : 0.00 min End Time : 27.88 min Low Point : 58.59 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 58.59 mV Plot Scale: 965.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274151,96948,msd
Instrument Name : gc06
Rack/Vial : 1/30
Sample Amount : 1.000000
Cycle : 30

Date : 11/30/04 12:44:57 PM
Data Acquisition Time : 11/30/04 7:43:22 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a030p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.693	713760.59	63.90	0.6636	1	42.40	8.48
Aroclor-1016	9.658	228637.90	142.14	0.6636	1	94.32	18.86
Aroclor-1254	13.897	1018229.67	1.02	0.6636	1	0.68	0.14
Aroclor-1260	16.328	146501.03	63.87	0.6636	1	42.39	8.48
Decachlorobiphenyl	21.667	664806.85	81.63	0.6636	1	54.17	10.83
		2771936.05	352.56			233.95	46.79

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.688	35668.86	148.25	0.6636	1	98.37	19.67
PCB1016#2	9.658	65602.11	142.20	0.6636	1	94.36	18.87
PCB1016#3	10.833	68793.43	134.88	0.6636	1	89.50	17.90
PCB1016#4	11.354	58573.51	254.04	0.6636	1	168.58	33.72
PCB1016#5	11.841	0.00	0.00	0.6636	1	0.00	0.00
		228637.90	679.37			450.81	90.16

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.254	155462.65	429.46	0.6636	1	284.98	57.00
PCB1254#2	13.897	279199.39	425.04	0.6636	1	282.05	56.41
PCB1254#3	14.590	168241.44	428.64	0.6636	1	284.43	56.89
PCB1254#4	15.576	207628.32	453.30	0.6636	1	300.80	60.16
PCB1254#5	16.027	207697.87	440.45	0.6636	1	292.27	58.45
		1018229.67	2176.89			1444.52	288.90

11/30/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.995	27870.97	117.73	0.6636	1	78.12	15.62
PCB1260#2	16.328	49766.29	154.46	0.6636	1	102.49	20.50
PCB1260#3	16.921	22541.57	59.08	0.6636	1	39.20	7.84
PCB1260#4	17.587	12299.84	28.24	0.6636	1	18.74	3.75
PCB1260#5	18.334	34022.36	37.08	0.6636	1	24.61	4.92
		146501.03	396.58			263.16	52.63

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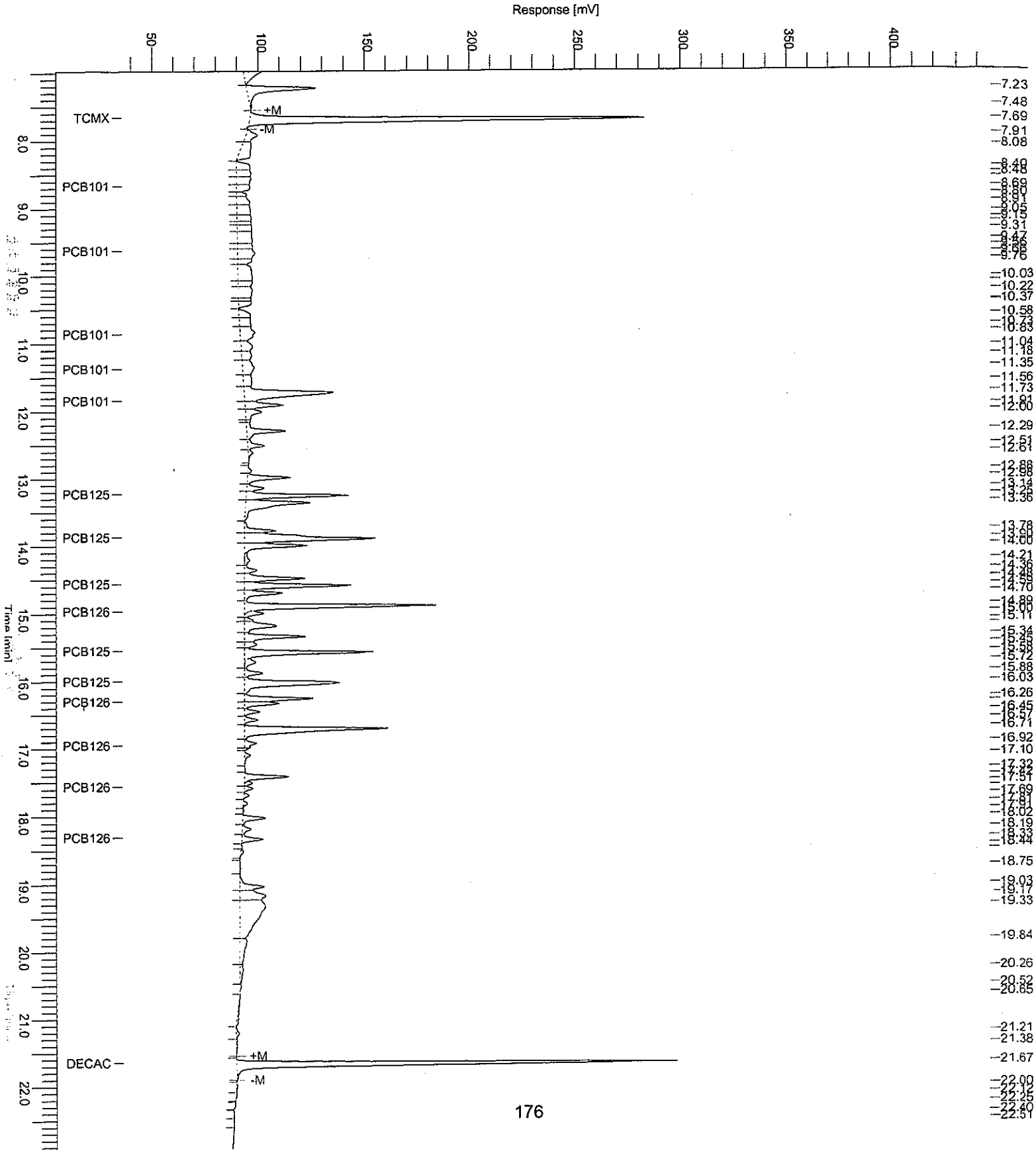
Report stored in ASCII file: G:\gc06\cha\334a030p.TX0

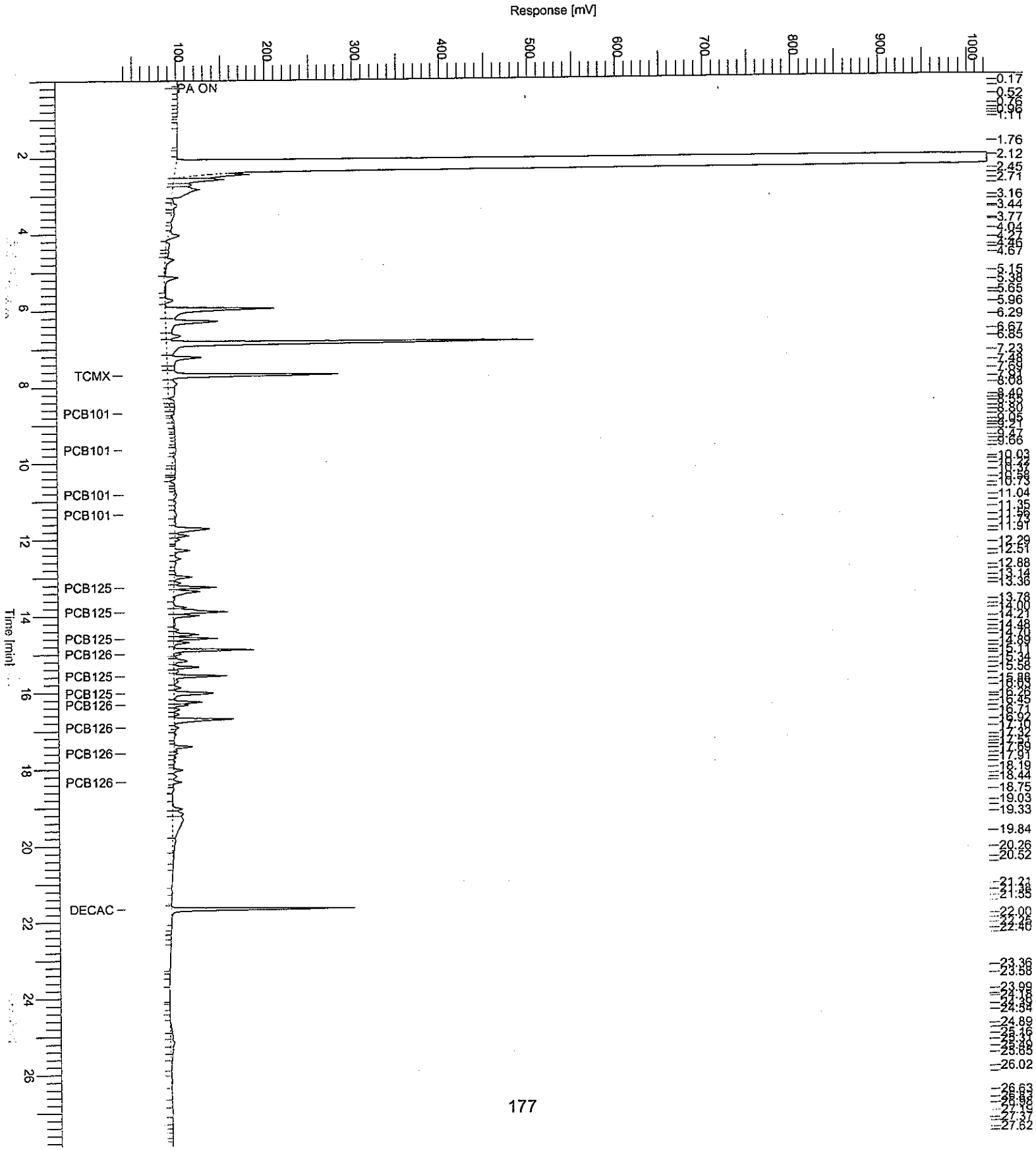
GC 06 Rtx-CLPesticides

ample Name : qc274151,96948,msd Sample #: 96948 Page 1 of 1
ileName : G:\gc06\cha\334a030.raw
ate : 11/30/04 12:45:02 PM
lethod : Time of Injection: 11/30/04 7:43:22 AM
tart Time : 6.97 min End Time : 22.92 min Low Point : 35.82 mV High Point : 446.89 mV
lot Offset: 35.82 mV Plot Scale: 411.1 mV



GC 06 Rtx-CLPesticides

ample Name : qc274151,96948,msd Sample #: 96948 Page 1 of 1
leName : G:\gc06\cha\334a030.raw
ate : 11/30/04 12:30:08 PM
ethod : gc06fsa1ul Time of Injection: 11/30/04 7:43:22 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 38.29 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 38.29 mV Plot Scale: 985.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274151,96948,msd
Instrument Name : gc06
Rack/Vial : 1/30
Sample Amount : 1.000000
Cycle : 30

Date : 11/30/04 12:52:31 PM
Data Acquisition Time : 11/30/04 7:43:22 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b030p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.507	1181579.91	59.70	0.6636	1	39.61	7.92
Aroclor-1016	10.867	228280.87	65.95	0.6636	1	43.76	8.75
Aroclor-1254	13.413	1658937.97	1.66	0.6636	1	1.10	0.22
Aroclor-1260	15.267	826556.91	163.51	0.6636	1	108.50	21.70
Decachlorobiphenyl	20.653	776811.42	82.44	0.6636	1	54.70	10.94
		4672167.09	373.25			247.68	49.54

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.309	72892.54	168.72	0.6636	1	111.95	22.39
PCB1016#2	8.814	0.00	0.00	0.6636	1	0.00	0.00
PCB1016#3	9.472	27549.90	18.09	0.6636	1	12.01	2.40
PCB1016#4	9.923	20672.16	49.20	0.6636	1	32.65	6.53
PCB1016#5	10.867	107166.28	216.11	0.6636	1	143.40	28.68
		228280.87	452.12			300.01	60.00

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	296643.78	360.60	0.6636	1	239.28	47.86
PCB1254#2	12.493	418005.72	379.16	0.6636	1	251.60	50.32
PCB1254#3	13.160	287637.36	402.16	0.6636	1	266.86	53.37
PCB1254#4	13.413	535997.22	430.64	0.6636	1	285.76	57.15
PCB1254#5	13.693	120653.89	432.19	0.6636	1	286.79	57.36
		1658937.97	2004.75			1330.29	266.06

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	199921.34	200.05	0.6636	1	132.75	26.55
PCB1260#2	15.267	470953.46	377.90	0.6636	1	250.77	50.15
PCB1260#3	15.666	38157.03	57.59	0.6636	1	38.22	7.64
PCB1260#4	16.241	51167.94	72.70	0.6636	1	48.24	9.65
PCB1260#5	16.896	66357.15	45.98	0.6636	1	30.51	6.10
		826556.91	754.22			500.48	100.10

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Report stored in ASCII file: G:\gc06\chb\334b030p.TX0

GC 06 Rtx-5

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eName : G:\gc06\chb\334b030.raw
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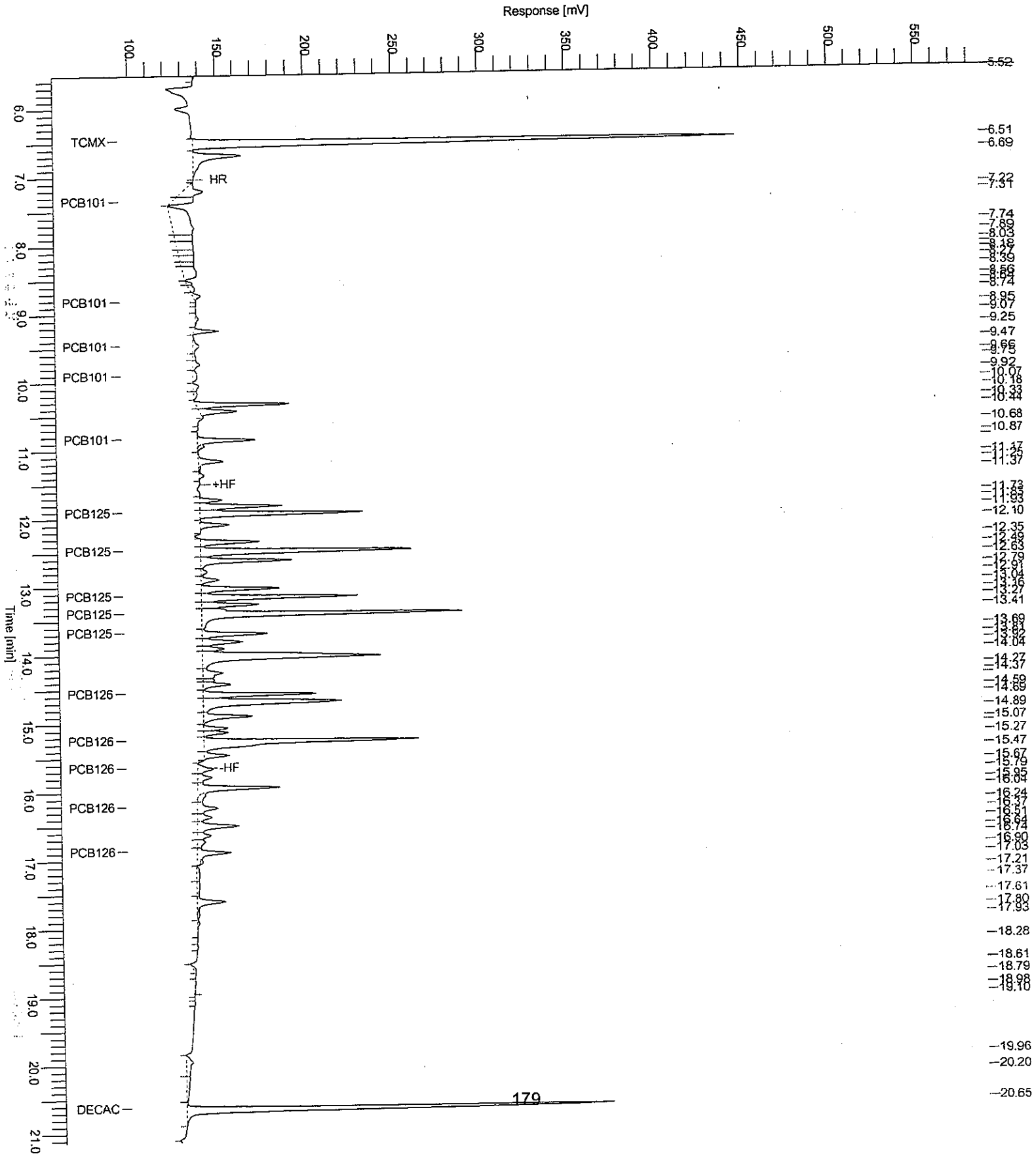
ethod :
art Time : 5.52 min
ot Offset: 94.23 mV

Sample #: 96948

Time of Injection: 11/30/04 7:43:22 AM
End Time : 21.13 min
Low Point : 94.23 mV
High Point : 587.28 mV
Plot Scale: 493.0 mV



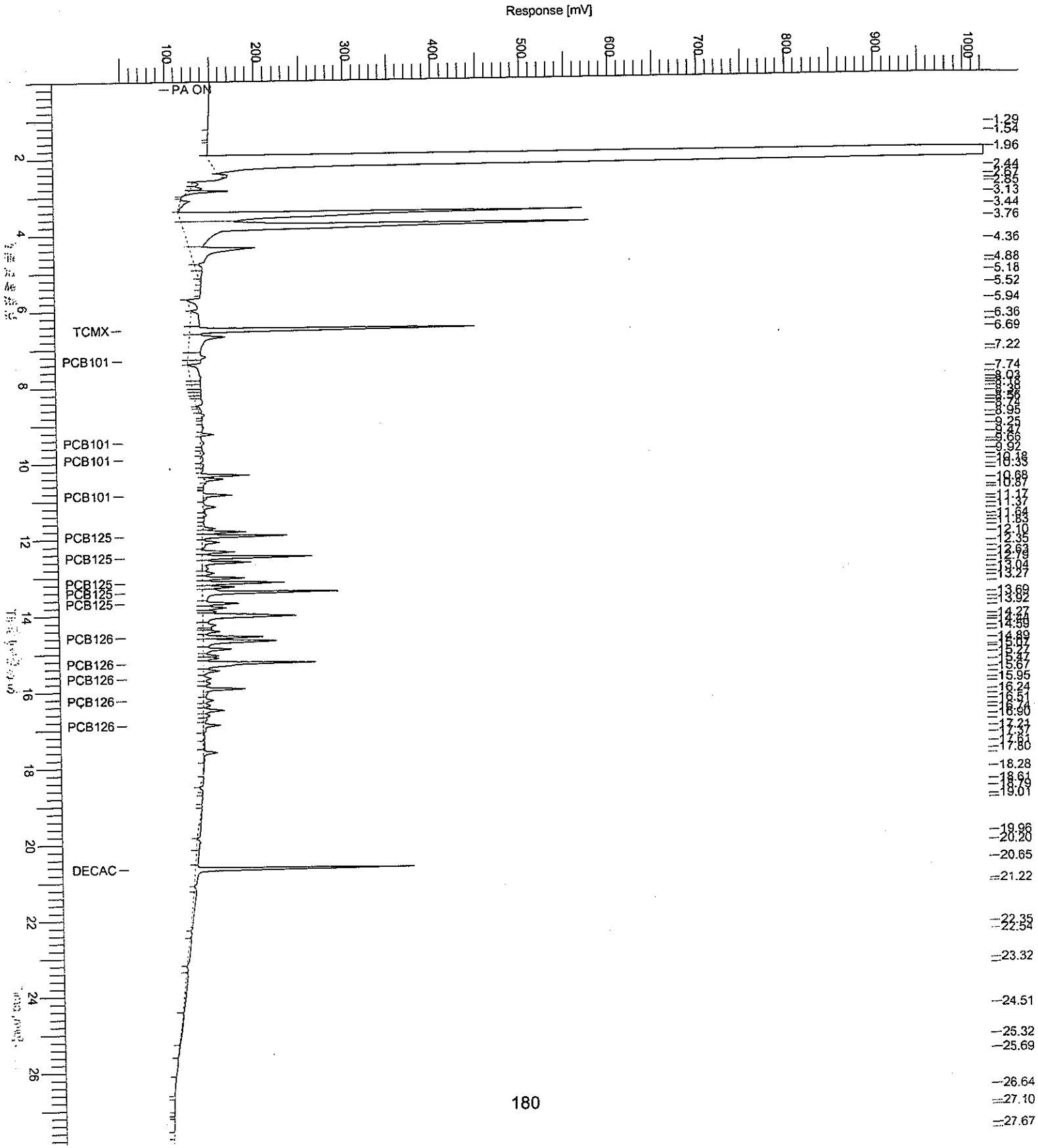
GC 06 Rtx-5

ımple Name : qc274151,96948,msd
eName : G:\gc06\chb\334b030
ate : 11/30/04 12:31:04 PM
ethod : gc06fsa1ul
art Time : 0.00 min
cale Factor: 1.0

Sample #: 96948

Page 1 of 1

Time of Injection: 11/30/04 7:43:22 AM
End Time : 27.88 min
Low Point : 48.18 mV
High Point : 1024.00 mV
Plot Offset: 48.18 mV
Plot Scale: 975.8 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204481766015
Filename : 334_015
IDF : 1.0

Samplenum: 176248-005
Matrix : Soil
Batchnum : 96948

Cident : BB3EX152[0.5]
Acctnum : TREADWELL (SES)
Injected : 29-NOV-2004 23:25
Units : ug/Kg

Prep: 14.99 g --> 10.0 ml = 0.6671 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	Result	RPD	RL	B=334_023	Flags
Aroclor-1016	A	204456284001	ND				9.6		
Aroclor-1016 Peak # 1.....A		204456284001		0.57	ND				
Aroclor-1016 Peak # 2.....A		204456284001		13.15	ND				
Aroclor-1016 Peak # 3	A	204456284001		ND	ND				
Aroclor-1016 Peak # 4.....A		204456284001		3.09	1.96	45%			
Aroclor-1016 Peak # 5.....A		204456284001		11.50	0.56	182%			
Aroclor-1221	A		ND				19		
Aroclor-1232	A		ND				9.6		
Aroclor-1242	A		ND				9.6		
Aroclor-1248	A		ND				9.6		
Aroclor-1254	A	204461493001	ND				9.6		?v
Aroclor-1254 Peak # 1.....A		204461493001		5.32	0.45	169%			
Aroclor-1254 Peak # 2.....A		204461493001		2.09	0.35	142%			
Aroclor-1254 Peak # 3	A	204461493001		ND	0.46				
Aroclor-1254 Peak # 4	A	204461493001		ND	ND				
Aroclor-1254 Peak # 5.....A		204461493001		0.50	1.01	67%			
Aroclor-1260	A	204456284001	ND				9.6		
Aroclor-1260 Peak # 1	A	204456284001		ND	ND				
Aroclor-1260 Peak # 2	A	204456284001		ND	ND				
Aroclor-1260 Peak # 3.....A		204456284001		9.45	21.98	80%			
Aroclor-1260 Peak # 4	A	204456284001		ND	1.44				
Aroclor-1260 Peak # 5	A	204456284001		ND	0.17				

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	204456284001	33.36	26.29	79	65-135	>c-
Decachlorobiphenyl	A	204456284001	33.36	36.36	109	65-135	

-=low bias >=closing ?=missing c=CCV v=ICV out

Analyst: _____ Date: 11/30/04 Reviewer: _____ Date: _____

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96948
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/30/04 12:05:07 PM
Data Acquisition Time : 11/29/04 11:25:54 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a015p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.667	440134.43	39.40	0.6671	1	26.29	5.26
Aroclor-1016	11.835	13224.87	8.22	0.6671	1	5.48	1.10
Aroclor-1254	13.226	5292.86	0.01	0.6671	1	0.00	0.00
Aroclor-1260	16.982	5407.38	2.36	0.6671	1	1.57	0.31
Decachlorobiphenyl	21.667	443922.57	54.51	0.6671	1	36.36	7.27
		907982.11	104.50			69.71	13.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.670	204.56	0.85	0.6671	1	0.57	0.11
PCB1016#2	9.652	9091.35	19.71	0.6671	1	13.15	2.63
PCB1016#3	10.860	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#4	11.389	1067.32	4.63	0.6671	1	3.09	0.62
PCB1016#5	11.835	2861.64	17.24	0.6671	1	11.50	2.30
		13224.87	42.42			28.30	5.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.226	2884.09	7.97	0.6671	1	5.32	1.06
PCB1254#2	13.837	2053.47	3.13	0.6671	1	2.09	0.42
PCB1254#3	14.562	0.00	0.00	0.6671	1	0.00	0.00
PCB1254#4	15.547	0.00	0.00	0.6671	1	0.00	0.00
PCB1254#5	16.003	355.31	0.75	0.6671	1	0.50	0.10
		5292.86	11.85			7.90	1.58

11/30/04

Group Report For : Aroclor-1260

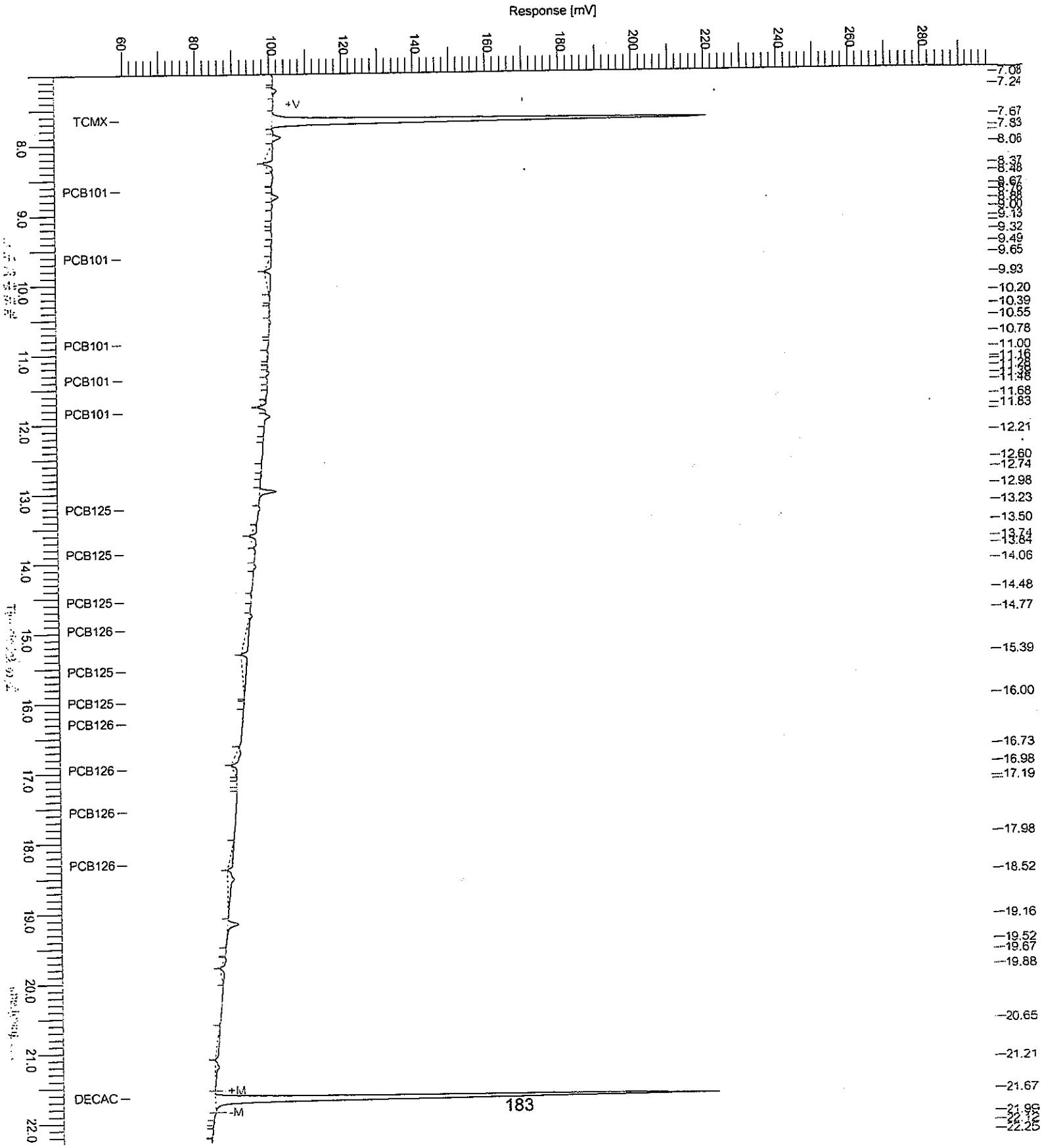
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.966	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#2	16.299	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#3	16.982	5407.38	14.17	0.6671	1	9.45	1.89
PCB1260#4	17.559	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#5	18.307	0.00	0.00	0.6671	1	0.00	0.00
		5407.38	14.17			9.45	1.89

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a015p.TX0

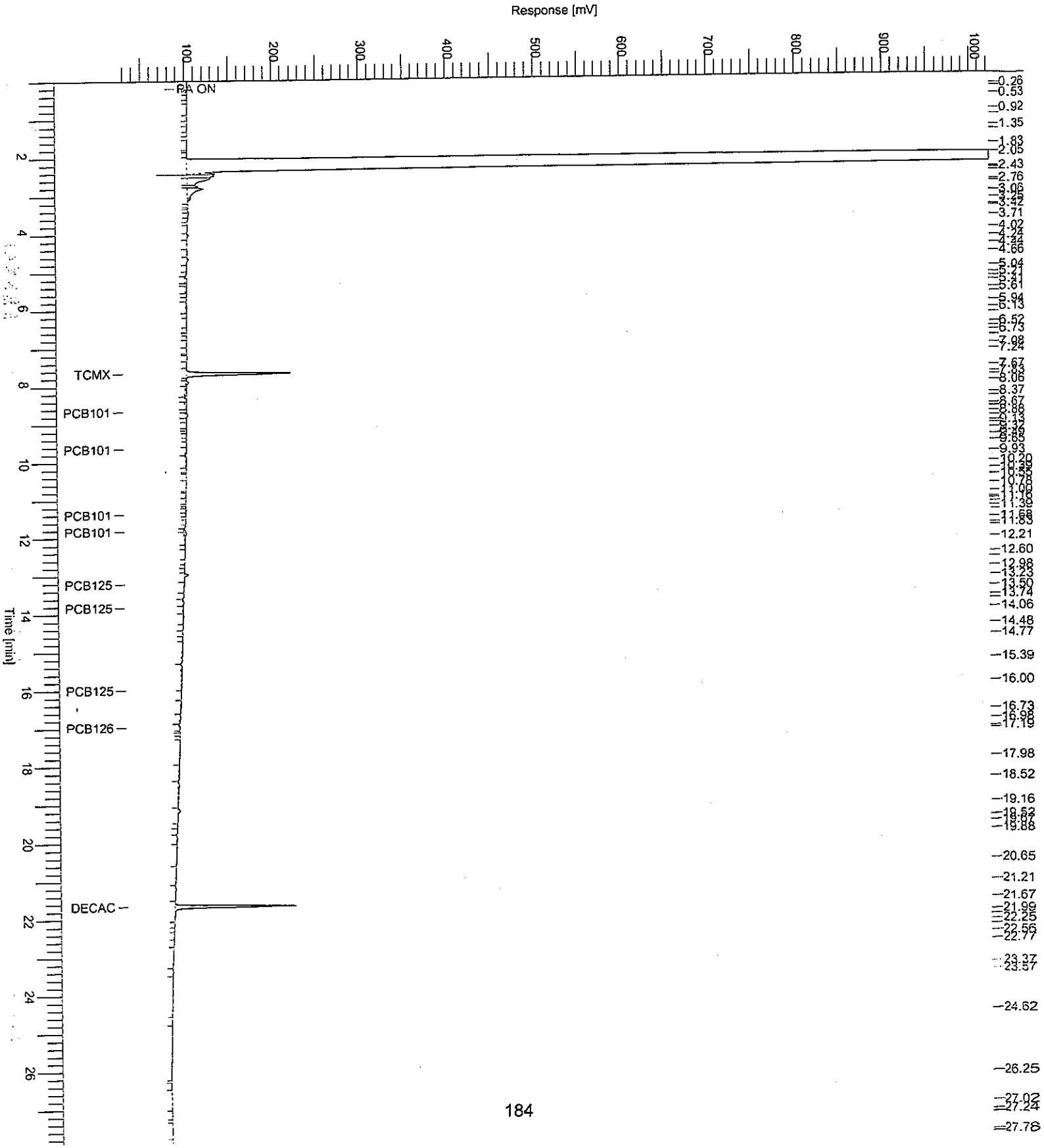
GC 06 Rtx-CLPesticides

ample Name : 176248-005,96948 Sample #: 96948
ileName : G:\gc06\cha\334a015.raw
ate : 11/30/04 12:05:11 PM
ethod :
Time of Injection: 11/29/04 11:25:54 PM
tart Time : 7.00 min End Time : 22.29 min Low Point : 59.40 mV High Point : 298.55 mV
ot Offset: 59.40 mV Plot Scale: 239.2 mV



GC 06 Rtx-CLPesticides

ample Name : 176248-005,96948 Sample #: 96948
ileName : G:\gc06\cha\334a015.raw
ate : 11/30/04 12:01:21 PM
lethod : gc06fsa1ul Time of Injection: 11/29/04 11:25:54 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 28.92 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 28.92 mV Plot Scale: 995.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96948
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/30/04 12:09:09 PM
Data Acquisition Time : 11/29/04 11:25:54 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b015p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	833946.21	42.13	0.6671	1	28.11	5.62
Aroclor-1016	9.915	1646.32	0.48	0.6671	1	0.32	0.06
Aroclor-1254	12.483	2048.68	0.00	0.6671	1	0.00	0.00
Aroclor-1260	15.658	23710.29	4.69	0.6671	1	3.13	0.63
Decachlorobiphenyl	20.653	523812.74	55.59	0.6671	1	37.08	7.42
		1385164.24	102.89			68.64	13.73

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.351	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#2	8.814	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#3	9.465	0.00	0.00	0.6671	1	0.00	0.00
PCB1016#4	9.915	1231.96	2.93	0.6671	1	1.96	0.39
PCB1016#5	10.787	414.35	0.84	0.6671	1	0.56	0.11
		1646.32	3.77			2.51	0.50

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.931	554.64	0.67	0.6671	1	0.45	0.09
PCB1254#2	12.483	580.66	0.53	0.6671	1	0.35	0.07
PCB1254#3	13.177	492.28	0.69	0.6671	1	0.46	0.09
PCB1254#4	13.387	0.00	0.00	0.6671	1	0.00	0.00
PCB1254#5	13.663	421.11	1.51	0.6671	1	1.01	0.20
		2048.68	3.40			2.27	0.45

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.554	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#2	15.240	0.00	0.00	0.6671	1	0.00	0.00
PCB1260#3	15.658	21826.76	32.95	0.6671	1	21.98	4.40
PCB1260#4	16.183	1522.48	2.16	0.6671	1	1.44	0.29
PCB1260#5	16.891	361.04	0.25	0.6671	1	0.17	0.03
		23710.29	35.36			23.59	4.72

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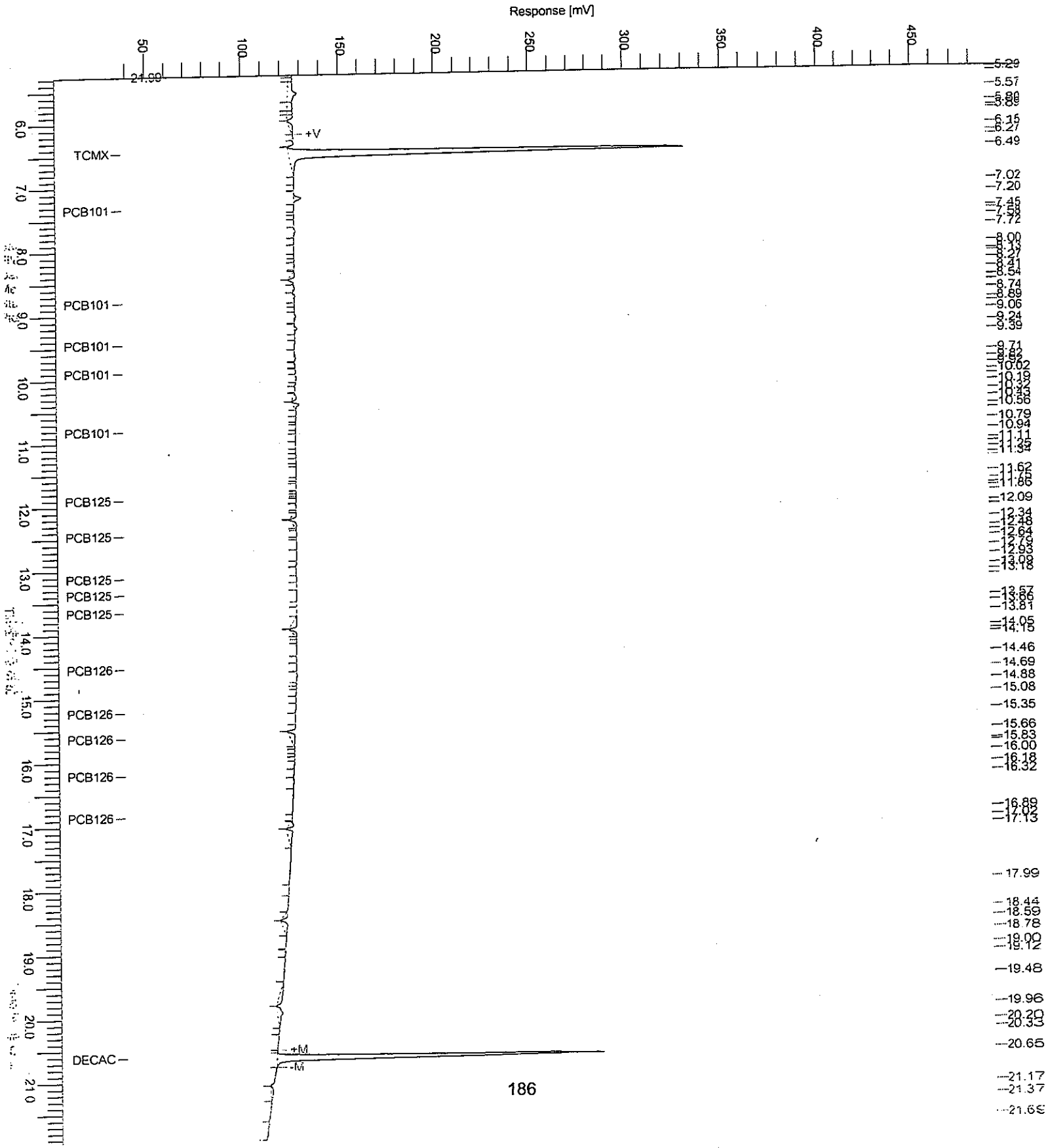
Report stored in ASCII file: G:\gc06\chb\334b015p.TX0

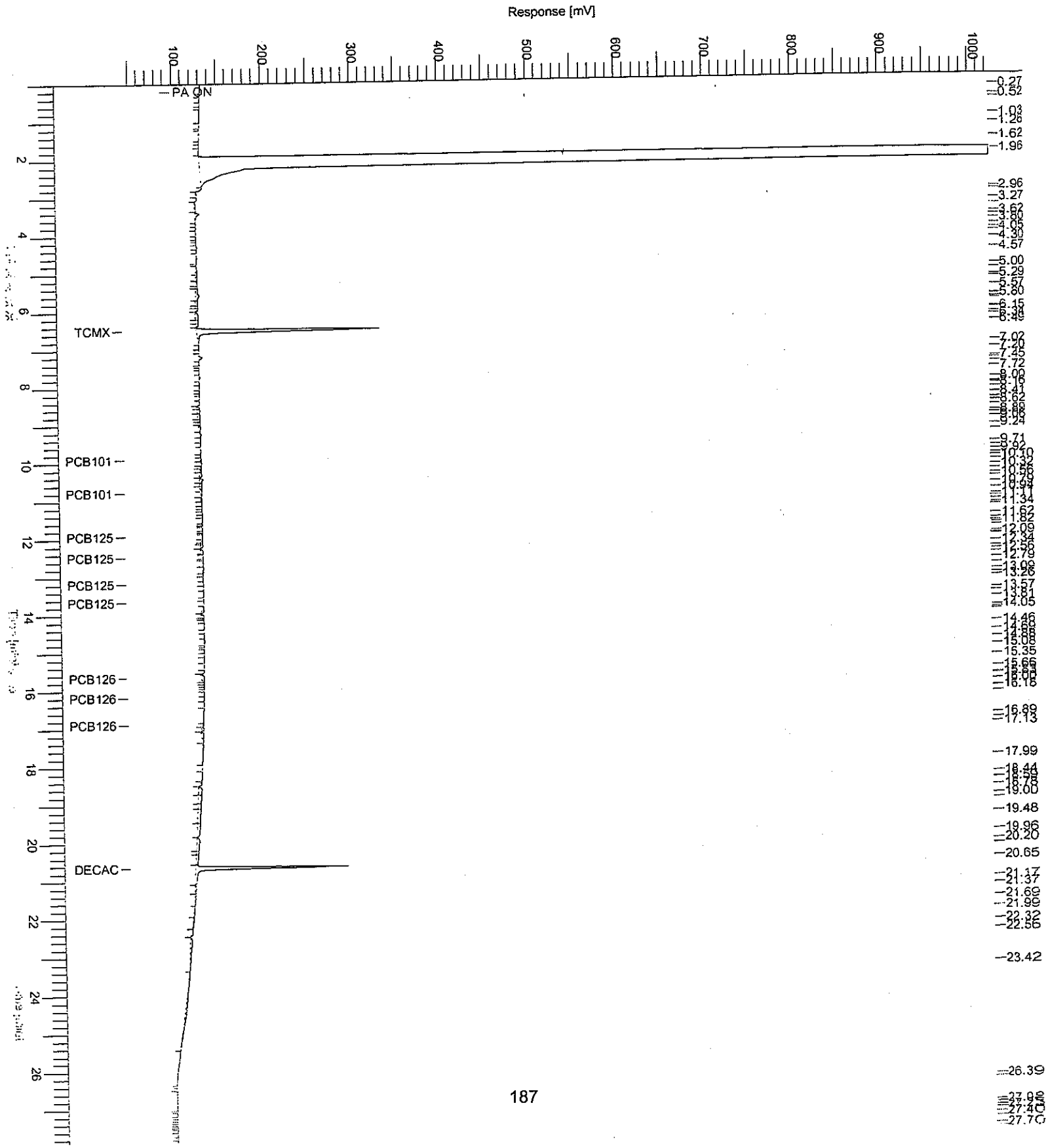
GC 06 Rtx-5

ample Name : 176248-005,96948 Sample #: 96948 Page 1 of 1
eName : G:\gc06\chb\334b015.raw
ate : 11/30/04 12:09:14 PM
ethod :
Time of Injection: 11/29/04 11:25:54 PM
art Time : 5.28 min End Time : 21.96 min Low Point : 38.23 mV High Point : 488.99 mV
ot Offset: 38.23 mV Plot Scale: 450.8 mV



GC 06 Rtx-5

ample Name : 176248-005,96948 Sample #: 96948 Page 1 of 1
leName : G:\gc06\chb\334b015
ate : 11/30/04 12:01:56 PM
ethod : gc06fsa1ul Time of Injection: 11/29/04 11:25:54 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 40.69 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 40.69 mV Plot Scale: 983.3 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8082

Instid : GC06
Seqnum : 204481766015
Filename : 334_015
IDF : 1.0
Run type : MSS
Samplenum: 176248-005
Matrix : Soil
Batchnum : 96948
Inj : 29-NOV-2004 23:25
Units : ug/Kg

Instid : GC06
Seqnum : 204481766058
Filename : 334_058
IDF : 1.0
Run type : MS
Samplenum: QC274150
Matrix : Soil
Batchnum : 96948
Inj : 30-NOV-2004 23:14

Instid : GC06
Seqnum : 204481766060
Filename : 334_060
IDF : 1.0
Run type : MSD
Samplenum: QC274151
Matrix : Soil
Batchnum : 96948
Inj : 01-DEC-2004 11:36

Not rptd.

See original analysis

MSS: 14.99 g --> 10.0 ml = 0.6671 ml/g PDF
MS: 15.22 g --> 10.0 ml = 0.657 ml/g PDF
MSD: 15.07 g --> 10.0 ml = 0.6636 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim	%Rec	RPD	Lim	Flags
Aroclor-1016 Peak # 1				ND	A		ND	A						
Aroclor-1016 Peak # 2				ND	A		ND	A						
Aroclor-1016 Peak # 3				ND	A		ND	A						
Aroclor-1016 Peak # 4				ND	A		ND	A						
Aroclor-1016 Peak # 5				ND	A		ND	A						
Aroclor-1254	ND	A	165.9	270.6	A	165*	348.0	A	210*	62-160	24	39		?>c ?v
Aroclor-1254 Peak # 1				270.3	A		368.2	A						
Aroclor-1254 Peak # 2				261.0	A		347.0	A						
Aroclor-1254 Peak # 3				270.5	A		340.2	A						
Aroclor-1254 Peak # 4				264.9	A		347.2	A						
Aroclor-1254 Peak # 5				286.1	A		337.2	A						
Aroclor-1260 Peak # 1				ND	A		ND	A						
Aroclor-1260 Peak # 2				ND	A		ND	A						
Aroclor-1260 Peak # 3				ND	A		ND	A						
Aroclor-1260 Peak # 4				ND	A		ND	A						
Aroclor-1260 Peak # 5				ND	A		ND	A						
TCMX			33.18	133.9	>LR A	408	57.31	A	173*	62-140	--			>LR ?>c b*
Decachlorobiphenyl			33.18	61.59	A	187*	62.90	A	190*	48-149	--			?>c

>=closing >LR=overrange ?=missing b=noncompliant c=CCV v=ICV out

Software Version : 6.1.2.0.1:D19
Sample Name : qc274150,96948,ms
Instrument Name : gc06
Rack/Vial : 1/58
Sample Amount : 1.000000
Cycle : 58

Date : 12/1/04 1:29:38 PM
Data Acquisition Time : 11/30/04 11:14:56 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a058p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.693	2276435.25	203.80	0.6570	1	133.90	26.78
Aroclor-1016	9.667	380146.99	236.33	0.6570	1	155.27	31.05
Aroclor-1254	13.907	961514.54	0.96	0.6570	1	0.63	0.13
Aroclor-1260	16.333	345417.80	150.60	0.6570	1	98.95	19.79
Decachlorobiphenyl	21.667	763400.92	93.74	0.6570	1	61.59	12.32
		4726915.49	685.43			450.35	90.07

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.699	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#2	9.667	380146.99	824.02	0.6570	1	541.41	108.28
PCB1016#3	10.893	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#4	11.406	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#5	11.876	0.00	0.00	0.6570	1	0.00	0.00
		380146.99	824.02			541.41	108.28

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.253	148924.62	411.40	0.6570	1	270.30	54.06
PCB1254#2	13.907	260945.32	397.25	0.6570	1	261.01	52.20
PCB1254#3	14.600	161599.95	411.72	0.6570	1	270.51	54.10
PCB1254#4	15.573	184700.19	403.24	0.6570	1	264.94	52.99
PCB1254#5	16.027	205344.45	435.46	0.6570	1	286.11	57.22
		961514.54	2059.07			1352.87	270.57

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.999	10542.75	44.53	0.6570	1	29.26	5.85
PCB1260#2	16.333	89587.58	278.05	0.6570	1	182.69	36.54
PCB1260#3	16.991	76072.89	199.37	0.6570	1	130.99	26.20
PCB1260#4	17.587	102267.94	234.79	0.6570	1	154.26	30.85
PCB1260#5	18.335	66946.64	72.97	0.6570	1	47.94	9.59
		345417.80	829.71			545.14	109.03

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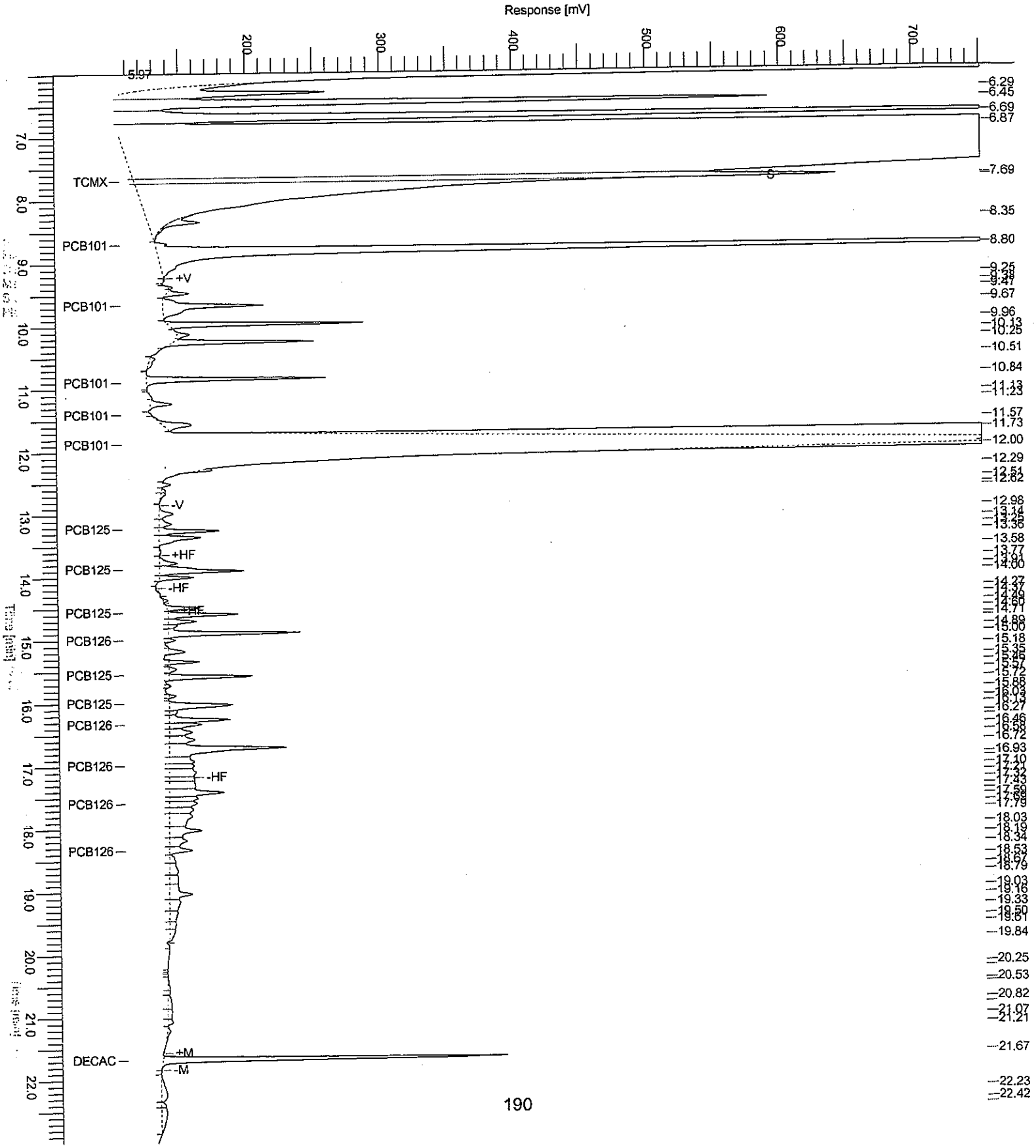
Report stored in ASCII file: G:\gc06\cha\334a058p.TX0

GC 06 Rtx-CLPesticides

ample Name : qc274150,96948,ms
ileName : G:\gc06\cha\334a058.raw
ate : 12/1/04 1:29:42 PM
ethod :
tart Time : 5.99 min
lot Offset: 105.73 mV

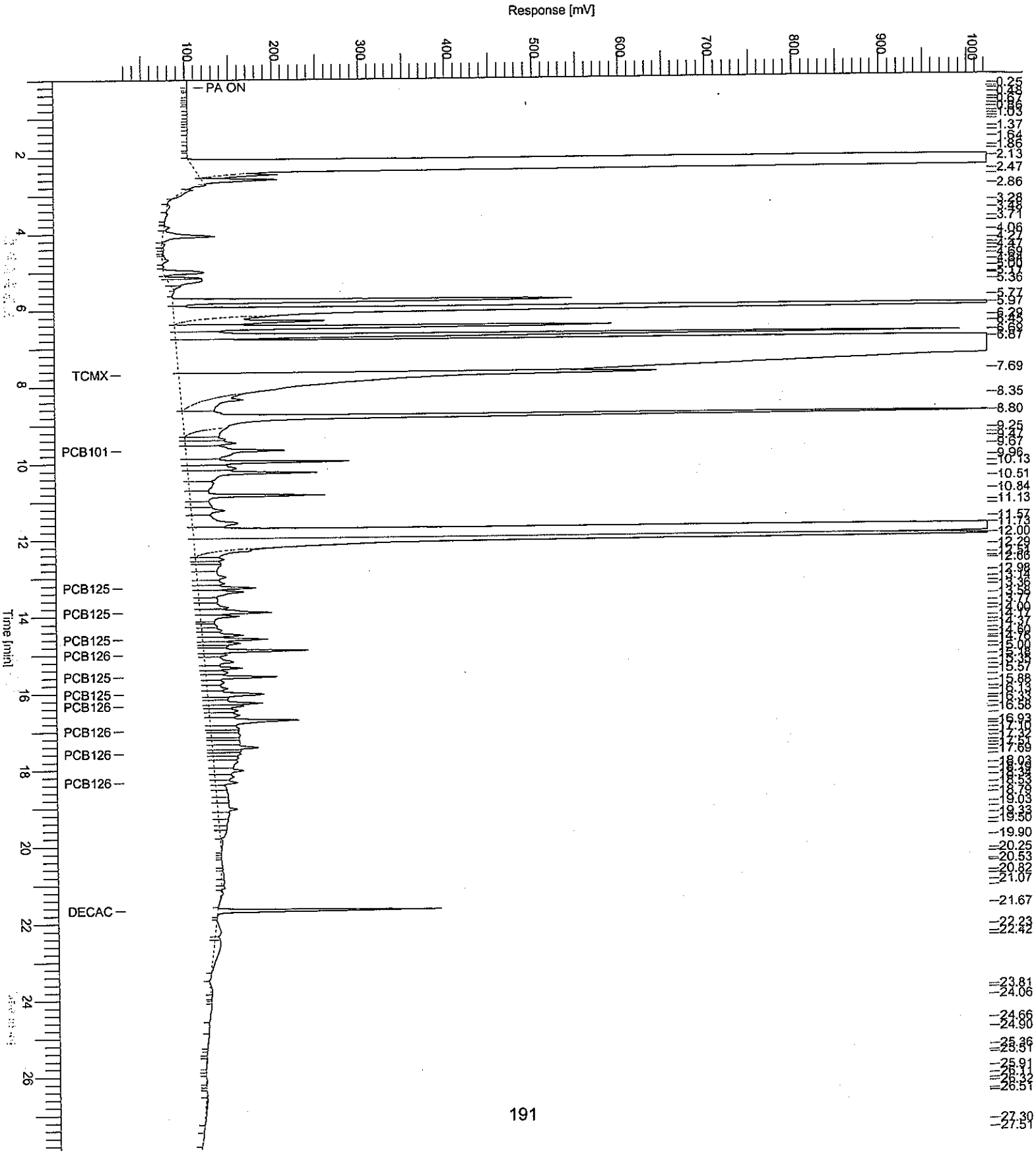
Sample #: 96948
Page 1 of 1

Time of Injection: 11/30/04 11:14:56 PM
End Time : 23.00 min
Low Point : 105.73 mV
High Point : 751.05 mV
Plot Scale: 645.3 mV



GC 06 Rtx-CLPesticides

ample Name : qc274150,96948,ms Sample #: 96948 Page 1 of 1
ileName : G:\gc06\cha\334a058.raw
ate : 12/1/04 1:18:10 PM
lethod : gc06fsa1ul Time of Injection: 11/30/04 11:14:56 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 25.46 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 25.46 mV Plot Scale: 998.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274150,96948,ms
Instrument Name : gc06
Rack/Vial : 1/58
Sample Amount : 1.000000
Cycle : 58

Date : 12/1/04 1:57:19 PM
Data Acquisition Time : 11/30/04 11:14:56 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b058p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.520	997186.97	50.38	0.6570	1	33.10	6.62
Aroclor-1016	10.867	144578.56	41.77	0.6570	1	27.44	5.49
Aroclor-1254	13.413	1247844.20	1.25	0.6570	1	0.82	0.16
Aroclor-1260	15.267	896535.10	177.35	0.6570	1	116.52	23.30
Decachlorobiphenyl	20.653	863102.43	91.60	0.6570	1	60.18	12.04
		4149247.26	362.34			238.07	47.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.387	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#2	8.840	0.00	0.00	0.6570	1	0.00	0.00
PCB1016#3	9.520	16032.38	10.53	0.6570	1	6.92	1.38
PCB1016#4	9.960	12296.50	29.27	0.6570	1	19.23	3.85
PCB1016#5	10.867	116249.68	234.42	0.6570	1	154.02	30.80
		144578.56	274.22			180.17	36.03

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.947	223812.73	272.07	0.6570	1	178.76	35.75
PCB1254#2	12.493	302278.18	274.18	0.6570	1	180.15	36.03
PCB1254#3	13.160	221245.83	309.34	0.6570	1	203.24	40.65
PCB1254#4	13.413	417139.70	335.15	0.6570	1	220.20	44.04
PCB1254#5	13.707	83367.76	298.63	0.6570	1	196.21	39.24
		1247844.20	1489.36			978.56	195.71

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	161796.63	161.90	0.6570	1	106.37	21.27
PCB1260#2	15.267	430091.87	345.12	0.6570	1	226.75	45.35
PCB1260#3	15.667	47119.62	71.12	0.6570	1	46.73	9.35
PCB1260#4	16.240	121346.19	172.41	0.6570	1	113.28	22.66
PCB1260#5	16.893	136180.79	94.36	0.6570	1	62.00	12.40
		896535.10	844.91			555.13	111.03

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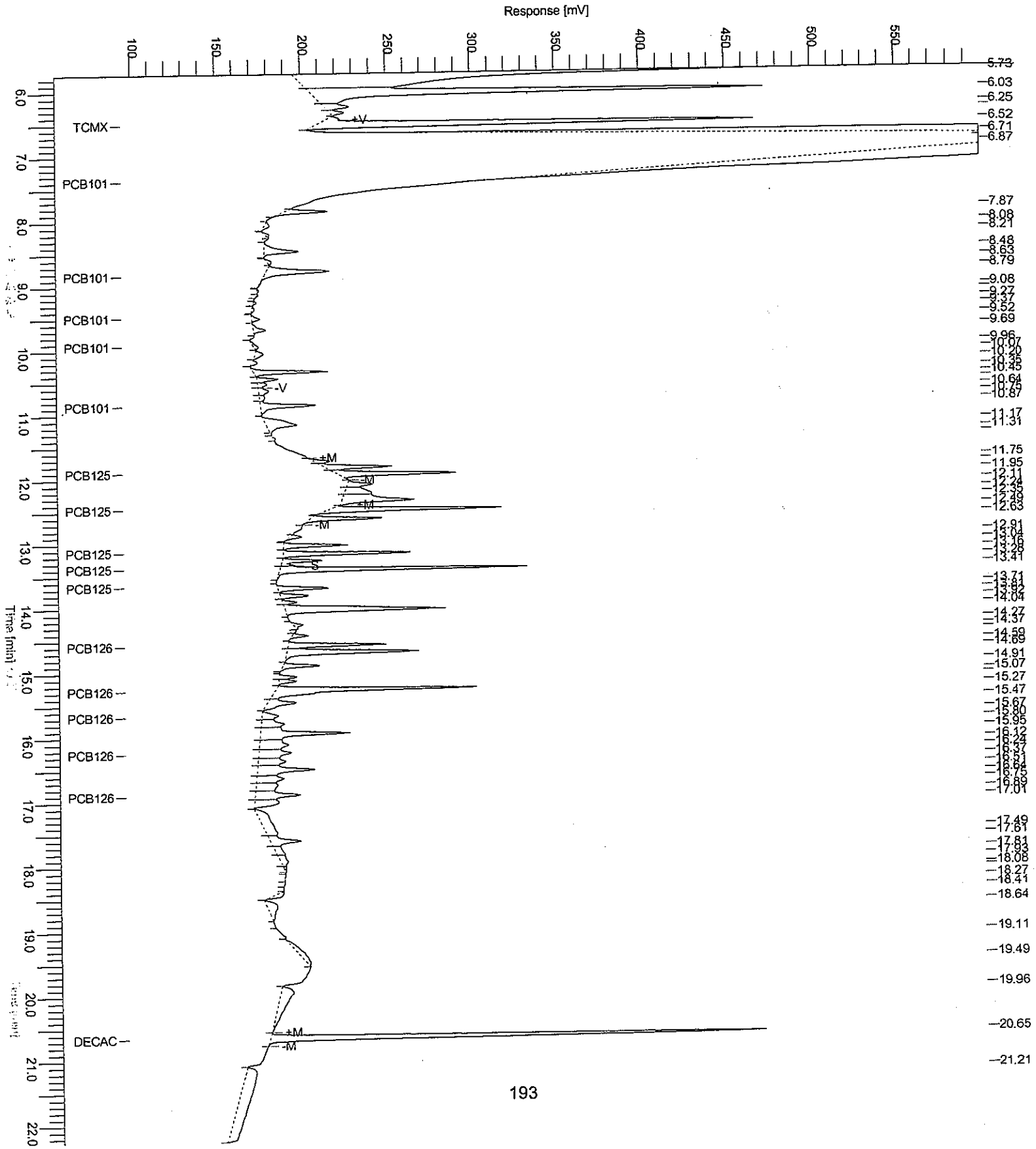
Report stored in ASCII file: G:\gc06\chb\334b058p.TX0

GC 06 Rtx-5

ample Name : qc274150,96948,ms
leName : G:\gc06\chb\334b058.raw
ate : 12/1/04 1:57:24 PM
ethod :
art Time : 5.73 min
ot Offset: 94.13 mV

Sample #: 96948

Time of Injection: 11/30/04 11:14:56 PM
End Time : 22.27 min
Low Point : 94.13 mV
High Point : 599.22 mV
Plot Scale: 505.1 mV

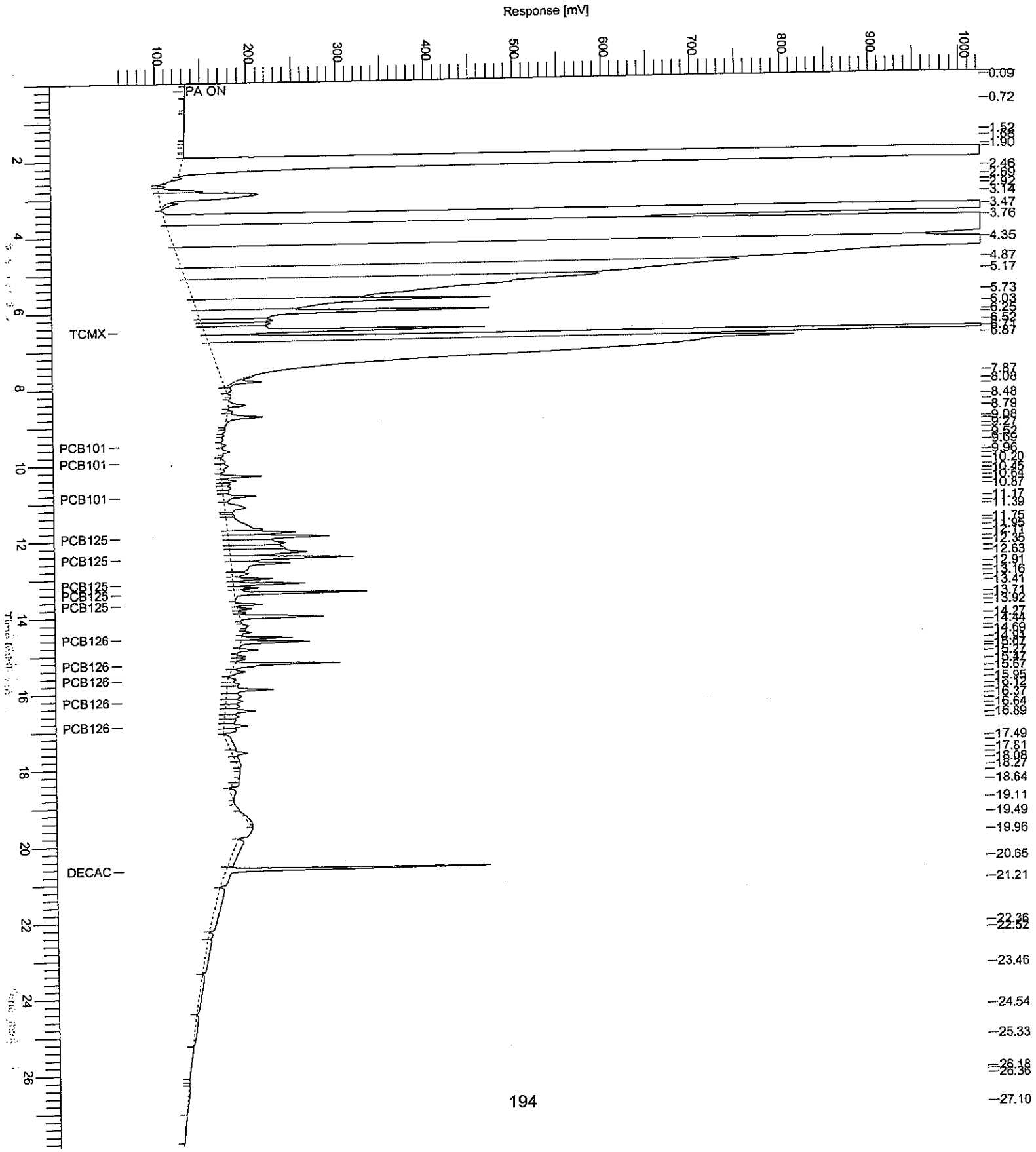


GC 06 Rtx-5

mple Name : qc274150,96948,ms
eName : G:\gc06\chb\334b058
te : 12/1/04 1:18:44 PM
thod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 96948

Time of Injection: 11/30/04 11:14:56 PM
End Time : 27.88 min
Low Point : 56.56 mV
High Point : 1024.00 mV
Plot Offset: 56.56 mV
Plot Scale: 967.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274151,96948,msd
Instrument Name : gc06
Rack/Vial : 1/60
Sample Amount : 1.000000
Cycle : 60

Date : 12/1/04 1:32:51 PM
Data Acquisition Time : 12/1/04 11:36:19 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a060p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	964626.67	86.36	0.6636	1	57.31	11.46
Aroclor-1016	11.899	129314.61	80.39	0.6636	1	53.35	10.67
Aroclor-1254	13.893	1224833.93	1.22	0.6636	1	0.81	0.16
Aroclor-1260	16.318	156425.19	68.20	0.6636	1	45.26	9.05
Decachlorobiphenyl	21.667	771915.42	94.78	0.6636	1	62.90	12.58
		3247115.82	330.96			219.62	43.92

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.691	8663.33	36.01	0.6636	1	23.89	4.78
PCB1016#2	9.651	34314.72	74.38	0.6636	1	49.36	9.87
PCB1016#3	10.893	0.00	0.00	0.6636	1	0.00	0.00
PCB1016#4	11.406	0.00	0.00	0.6636	1	0.00	0.00
PCB1016#5	11.899	86336.56	520.02	0.6636	1	345.07	69.01
		129314.61	630.41			418.32	83.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.245	200851.95	554.85	0.6636	1	368.18	73.64
PCB1254#2	13.893	343466.01	522.88	0.6636	1	346.97	69.39
PCB1254#3	14.585	201241.04	512.71	0.6636	1	340.22	68.04
PCB1254#4	15.573	239662.58	523.24	0.6636	1	347.20	69.44
PCB1254#5	16.020	239612.35	508.13	0.6636	1	337.18	67.44
		1224833.93	2621.80			1739.75	347.95

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.986	29226.64	123.45	0.6636	1	81.92	16.38
PCB1260#2	16.318	60997.06	189.31	0.6636	1	125.62	25.12
PCB1260#3	16.964	13459.38	35.27	0.6636	1	23.41	4.68
PCB1260#4	17.582	18021.04	41.37	0.6636	1	27.45	5.49
PCB1260#5	18.330	34721.07	37.84	0.6636	1	25.11	5.02
		156425.19	427.26			283.52	56.70

----------CURTIS & TOMPKINS LTD----------

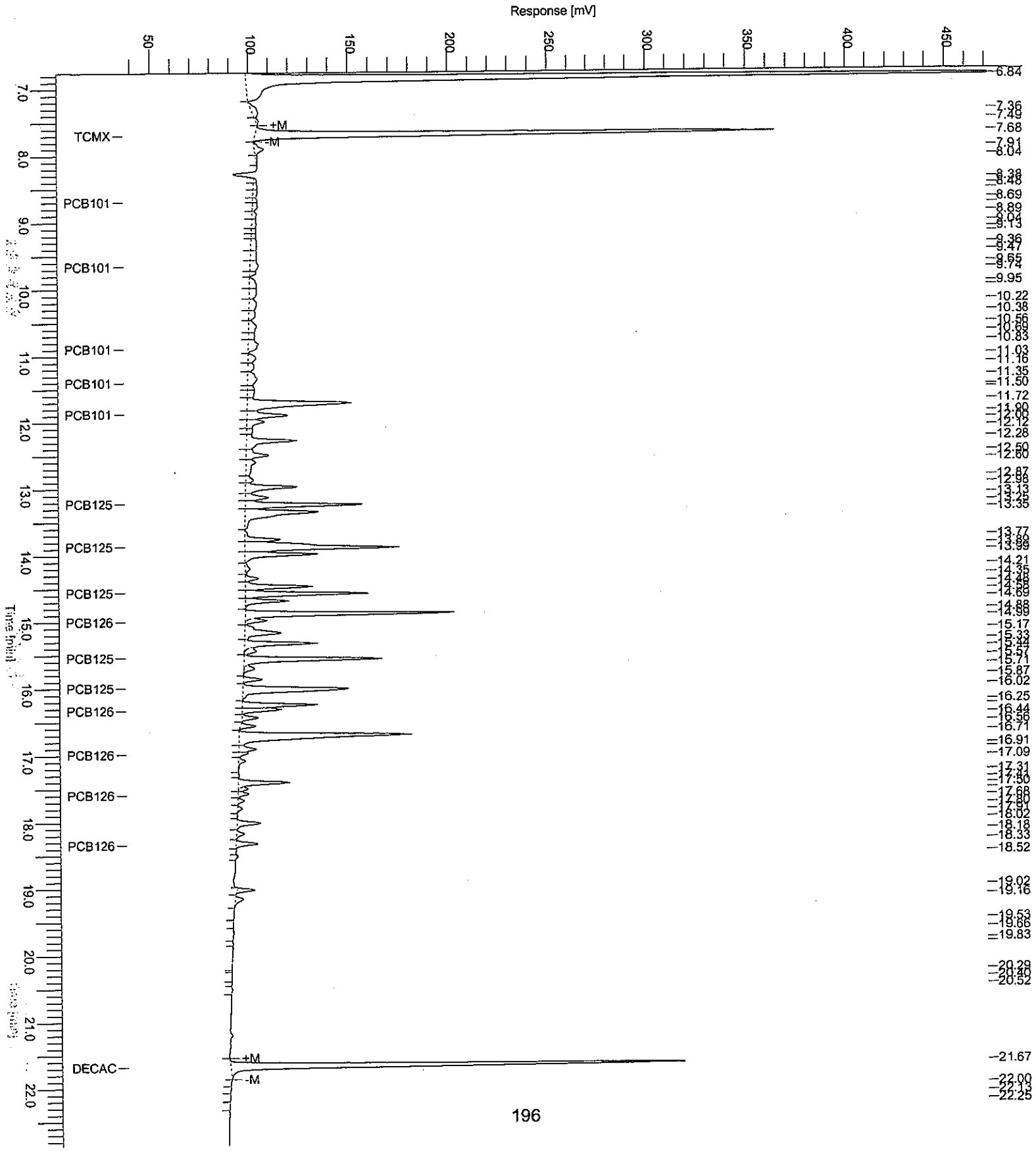
Report stored in ASCII file: G:\gc06\cha\334a060p.TX0

GC 06 Rtx-CLPesticides

ample Name : qc274151,96948,msd
ileName : G:\gc06\cha\334a060.raw
ate : 12/1/04 1:32:56 PM
lethod :
tart Time : 6.76 min End Time : 22.87 min Low Point : 36.52 mV High Point : 471.74 mV
lot Offset: 36.52 mV Plot Scale: 435.2 mV

Sample #: 96948 Page 1 of 1

Time of Injection: 12/1/04 11:36:19 AM

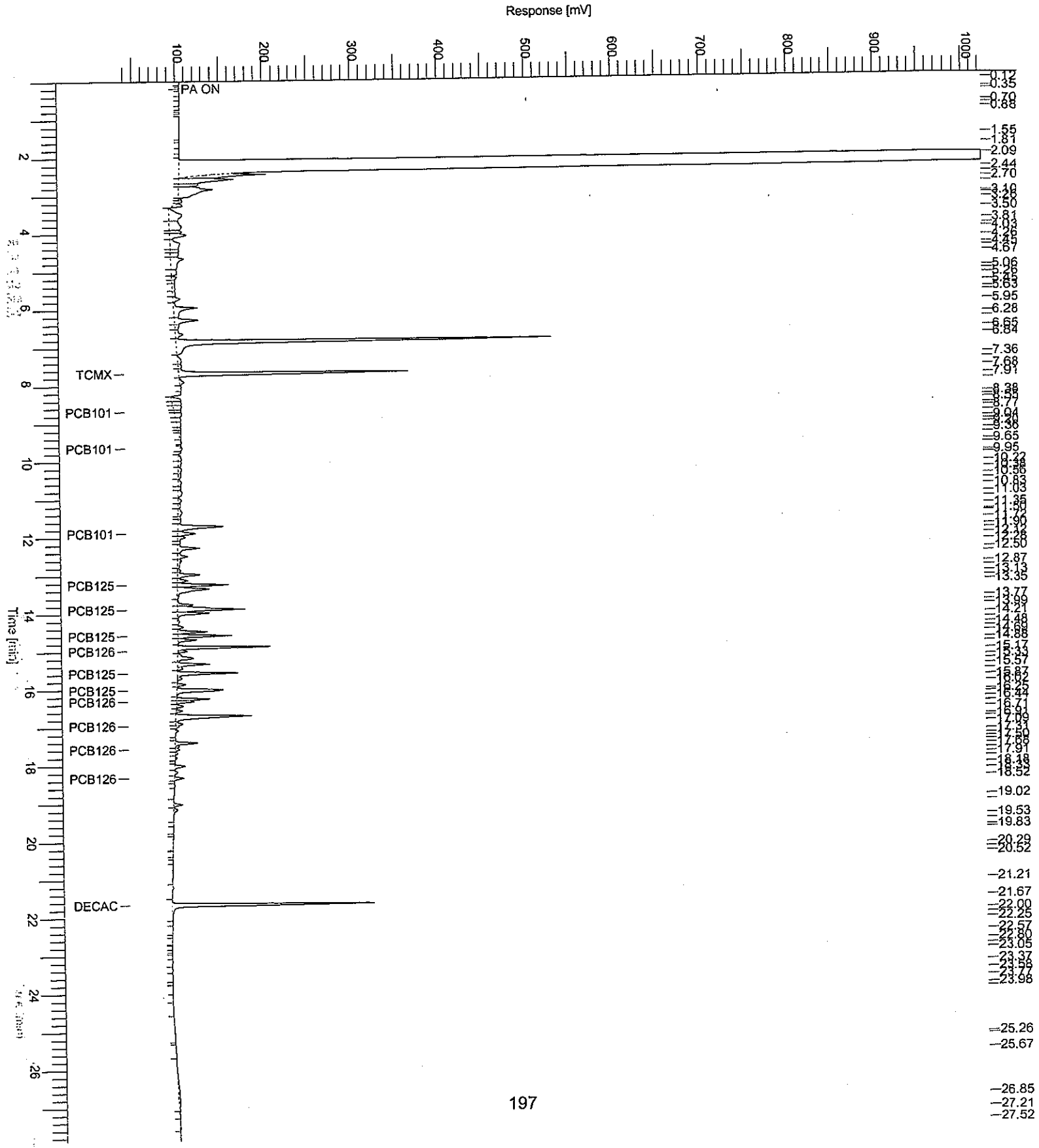


GC 06 Rtx-CLPesticides

ample Name : qc274151,96948,msd
leName : G:\gc06\cha\334a060.raw
ate : 12/1/04 1:18:15 PM
ethod : gc06fsa1ul
tart Time : 0.00 min End Time : 27.88 min Low Point : 38.99 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 38.99 mV Plot Scale: 985.0 mV

Sample #: 96948 Page 1 of 1

Time of Injection: 12/1/04 11:36:19 AM



Software Version : 6.1.2.0.1:D19
Sample Name : qc274151,96948,msd
Instrument Name : gc06
Rack/Vial : 1/60
Sample Amount : 1.000000
Cycle : 60

Date : 12/1/04 1:58:15 PM
Data Acquisition Time : 12/1/04 11:36:19 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b060p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	1612166.06	81.45	0.6636	1	54.05	10.81
Aroclor-1016	10.853	309989.43	89.56	0.6636	1	59.43	11.89
Aroclor-1254	13.400	2107124.15	2.11	0.6636	1	1.40	0.28
Aroclor-1260	15.253	927772.00	183.53	0.6636	1	121.78	24.36
Decachlorobiphenyl	20.653	893794.73	94.85	0.6636	1	62.94	12.59
		5850846.37	451.50			299.60	59.92

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.350	5022.49	11.62	0.6636	1	7.71	1.54
PCB1016#2	8.858	29510.18	49.96	0.6636	1	33.15	6.63
PCB1016#3	9.466	72715.47	47.76	0.6636	1	31.69	6.34
PCB1016#4	9.920	43640.09	103.87	0.6636	1	68.92	13.78
PCB1016#5	10.853	159101.20	320.83	0.6636	1	212.90	42.58
		309989.43	534.04			354.37	70.87

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	377310.37	458.66	0.6636	1	304.35	60.87
PCB1254#2	12.480	528685.38	479.55	0.6636	1	318.21	63.64
PCB1254#3	13.160	364938.24	510.24	0.6636	1	338.58	67.72
PCB1254#4	13.400	678493.88	545.13	0.6636	1	361.73	72.35
PCB1254#5	13.693	157696.29	564.88	0.6636	1	374.84	74.97
		2107124.15	2558.46			1697.71	339.54

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	250212.26	250.37	0.6636	1	166.14	33.23
PCB1260#2	15.253	574448.72	460.95	0.6636	1	305.87	61.17
PCB1260#3	15.657	24329.00	36.72	0.6636	1	24.37	4.87
PCB1260#4	16.233	28957.83	41.14	0.6636	1	27.30	5.46
PCB1260#5	16.891	49824.19	34.52	0.6636	1	22.91	4.58
		927772.00	823.71			546.59	109.32

----------CURTIS & TOMPKINS LTD----------

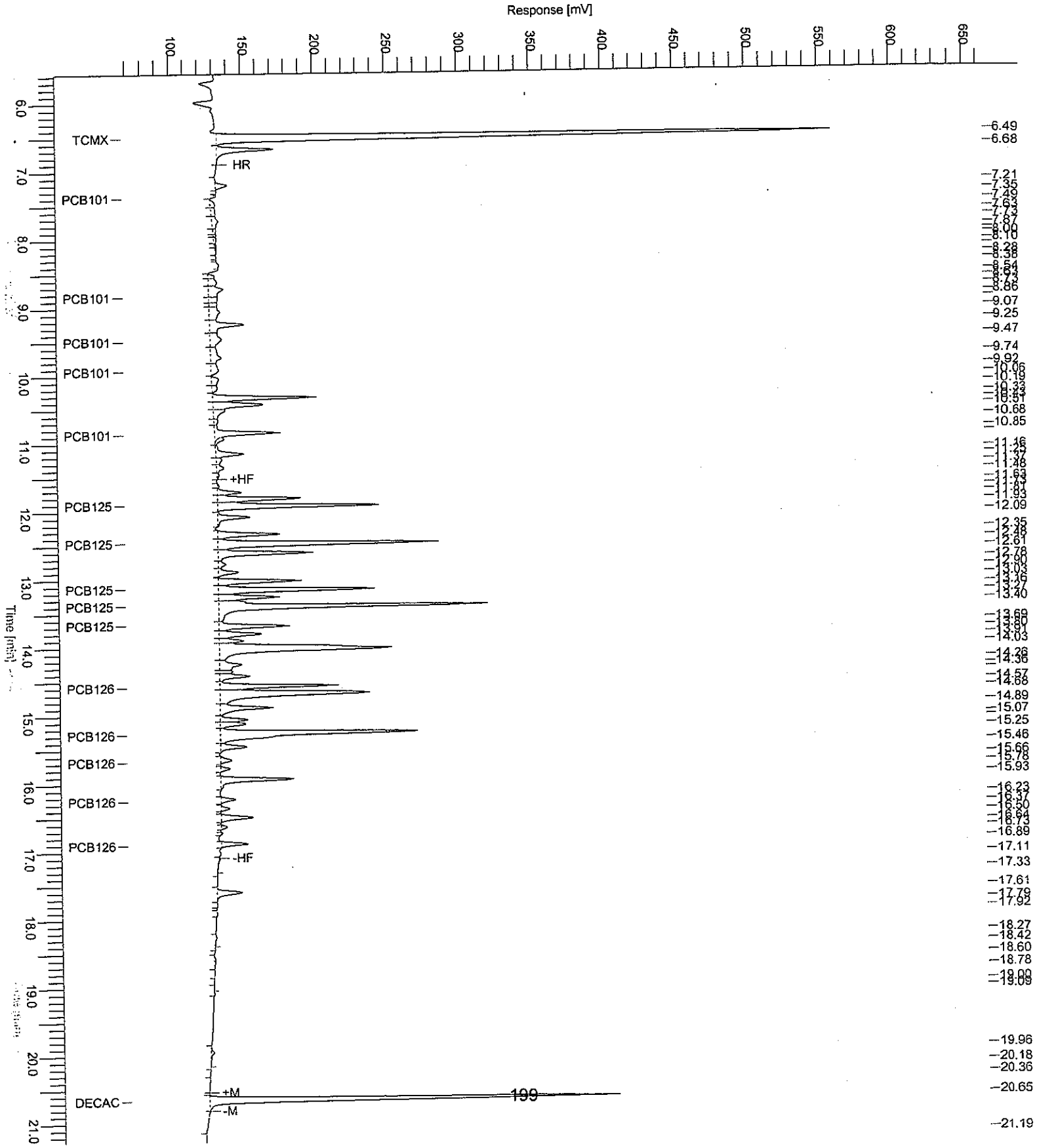
Report stored in ASCII file: G:\gc06\chb\334b060p.TX0

GC 06 Rtx-5

ample Name : qc274151,96948,msd
leName : G:\gc06\chb\334b060.raw
ate : 12/1/04 1:58:20 PM
ethod :
tart Time : 5.57 min
iot Offset: 67.43 mV

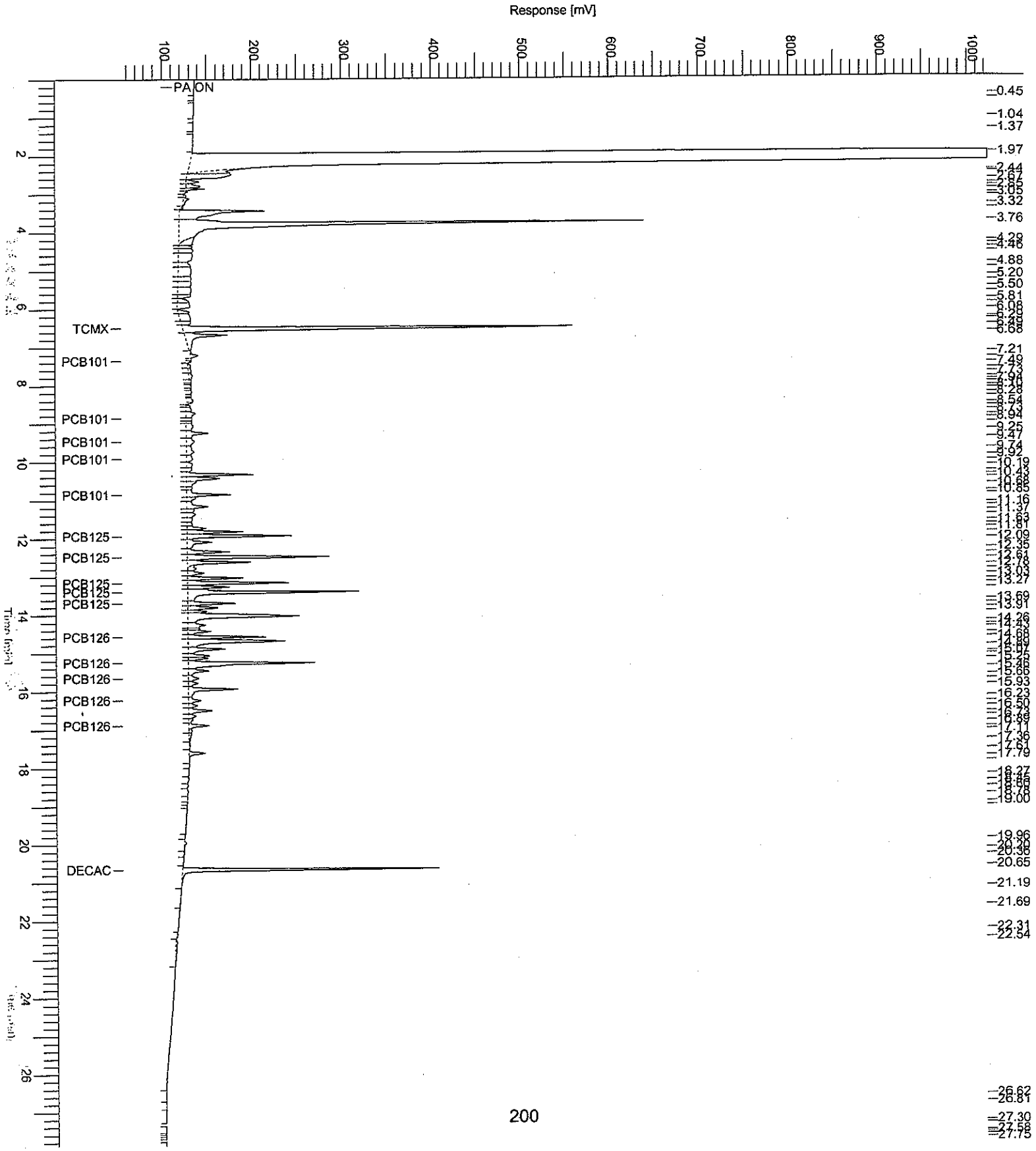
Sample #: 96948

Time of Injection: 12/1/04 11:36:19 AM
End Time : 21.28 min
Plot Scale: 597.6 mV
Low Point : 67.43 mV
High Point : 664.98 mV



GC 06 Rtx-5

ample Name : qc274151,96948,msd Sample #: 96948 Page 1 of 1
leName : G:\gc06\chb\334b060
ate : 12/1/04 1:18:49 PM
ethod : gc06fsa1ul Time of Injection: 12/1/04 11:36:19 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 53.86 mV High Point : 1024.00 mV
cale Factor: 1.0 Plot Offset: 53.86 mV Plot Scale: 970.1 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

Turbochrom Method File G:\gc06\files\5460a316.mth
Printed by : analyst on: 11/12/04 12:34:38 PM
Created by : analyst on: 11/12/04 11:23:04 AM
Edited by : analyst on: 11/12/04 12:34:12 PM
Number of Times Edited : 17
Number of Times Calibrated : 204
Description: gc06

/mcs 11/13/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 7.653 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	230576.05	62795.44	----------	----------	1
4	50.0000	489654.36	133315.76	----------	----------	1
5	100.0000	1058904.69	280995.29	----------	----------	1
6	150.0000	1597577.72	431211.17	----------	----------	1
7	200.0000	2000763.06	534505.51	----------	----------	1
1	2.0000	27031.46	7151.92	----------	----------	1
2	5.0000	60541.64	15999.56	----------	----------	1

Average Calibration Factor = 11169.904270 (%RSD = 11.77)

11/12/04

PCB1016#1
Component Type : Single Peak Component
Retention Time : 8.663 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2614.76	758.19	----------	----------	1
2	25.0000	6047.28	1712.54	----------	----------	1
3	100.0000	25435.36	7073.23	----------	----------	1
4	250.0000	55413.64	14848.26	----------	----------	1
5	500.0000	119683.96	31422.09	----------	----------	1
6	750.0000	180885.32	47343.69	----------	----------	1
7	1000.0000	224281.06	58621.51	----------	----------	1

Average Calibration Factor = 240.600642 (%RSD = 6.01)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 9.623 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5334.92	1266.93	----------	----------	1
2	25.0000	12481.31	2865.62	----------	----------	1
3	100.0000	52571.61	11523.98	----------	----------	1
4	250.0000	103798.14	23215.39	----------	----------	1
5	500.0000	216827.41	47419.82	----------	----------	1
6	750.0000	321143.91	70179.44	----------	----------	1
7	1000.0000	393826.68	85470.55	----------	----------	1

Average Calibration Factor = 461.332340 (%RSD = 12.31)

Aroclor-1016

Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	17056.31	5094.55	----------	----------	1
2	25.0000	43066.96	11773.25	----------	----------	1
3	100.0000	175960.19	47693.44	----------	----------	1
4	250.0000	364574.32	98980.61	----------	----------	1
5	500.0000	790353.41	212600.71	----------	----------	1
6	750.0000	1176192.11	316038.39	----------	----------	1
7	1000.0000	1464796.77	394744.59	----------	----------	1

Average Calibration Factor = 1608.566953 (%RSD = 7.65)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 10.861 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5647.33	1769.88	----------	----------	1
2	25.0000	13342.29	4095.21	----------	----------	1
3	100.0000	54922.03	16516.23	----------	----------	1
4	250.0000	114698.09	34201.92	----------	----------	1
5	500.0000	251248.30	74712.63	----------	----------	1
6	750.0000	371615.50	110108.29	----------	----------	1
7	1000.0000	465894.44	139736.84	----------	----------	1

Average Calibration Factor = 510.045123 (%RSD = 7.98)

PCB1016#4

Component Type : Single Peak Component
Retention Time : 11.370 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2425.29	793.10	----------	----------	1
2	25.0000	5948.41	1848.81	----------	----------	1
3	100.0000	24300.30	7568.07	----------	----------	1
4	250.0000	51416.21	15924.26	----------	----------	1
5	500.0000	116446.84	35531.93	----------	----------	1
6	750.0000	173718.76	53438.94	----------	----------	1
7	1000.0000	220301.44	67279.67	----------	----------	1

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Average Calibration Factor = 230.564712 (%RSD = 5.83)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 11.842 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1034.02	506.44	----------	----------	1
2	25.0000	5247.68	1251.07	----------	----------	1
3	100.0000	18730.89	5011.93	----------	----------	1
4	250.0000	39248.24	10790.78	----------	----------	1
5	500.0000	86146.90	23514.24	----------	----------	1
6	750.0000	128828.61	34968.02	----------	----------	1
7	1000.0000	160493.14	43636.01	----------	----------	1

Average Calibration Factor = 166.024135 (%RSD = 19.80)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 12.764 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	157135.71	46457.71	----------	----------	1

Average Calibration Factor = 628.542858 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 13.976 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	162748.64	45972.56	----------	----------	1

Average Calibration Factor = 650.994557 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 14.462 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	280015.34	81048.45	----------	----------	1

Average Calibration Factor = 1120.061357 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.966 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2684.03	880.17	----------	----------	1
2	25.0000	6162.67	2029.81	----------	----------	1
3	100.0000	25801.69	8305.58	----------	----------	1
4	250.0000	53344.18	16736.94	----------	----------	1
5	500.0000	116893.53	37148.00	----------	----------	1
6	750.0000	168610.19	53664.22	----------	----------	1
7	1000.0000	212272.76	67364.88	----------	----------	1

Average Calibration Factor = 236.739560 (%RSD = 9.20)

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

PCB1254#4
Component Type : Single Peak Component
Retention Time : 15.343 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	232151.81	57119.32	----------	----------	1

Average Calibration Factor = 928.607232 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.021 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	310509.19	65700.49	----------	----------	1

Average Calibration Factor = 1242.036779 (%RSD = 0.00)

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

PCB1260#2
Component Type : Single Peak Component
Retention Time : 16.299 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3769.94	1120.61	----------	----------	1
2	25.0000	8946.58	2602.39	----------	----------	1
3	100.0000	33829.17	10226.79	----------	----------	1
4	250.0000	69304.46	20475.87	----------	----------	1
5	500.0000	156529.81	46919.71	----------	----------	1
6	750.0000	226397.08	67041.51	----------	----------	1
7	1000.0000	290132.94	88834.64	----------	----------	1

Average Calibration Factor = 322.203111 (%RSD = 11.39)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 16.952 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4200.80	1408.12	----------	----------	1
2	25.0000	10342.79	3404.72	----------	----------	1
3	100.0000	42964.13	13619.77	----------	----------	1
4	250.0000	86198.85	26676.27	----------	----------	1
5	500.0000	188698.76	58756.39	----------	----------	1
6	750.0000	263280.73	84713.50	----------	----------	1
7	1000.0000	334249.52	107548.08	----------	----------	1

Average Calibration Factor = 381.559484 (%RSD = 10.36)

PCB1260#4
Component Type : Single Peak Component
Retention Time : 17.559 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5994.41	1768.85	----------	----------	1
2	25.0000	10121.95	3748.28	----------	----------	1
3	100.0000	48965.52	15421.46	----------	----------	1
4	250.0000	93595.94	29559.75	----------	----------	1
5	500.0000	209009.75	64451.94	----------	----------	1
6	750.0000	291742.67	91324.34	----------	----------	1
7	1000.0000	373663.89	116176.99	----------	----------	1

Average Calibration Factor = 435.576024 (%RSD = 18.93)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	28207.21	8833.94	----------	----------	1
2	25.0000	62873.33	20504.43	----------	----------	1
3	100.0000	251024.29	79624.84	----------	----------	1
4	250.0000	495264.78	154500.90	----------	----------	1
5	500.0000	1100945.56	344645.24	----------	----------	1
6	750.0000	1541927.23	484680.03	----------	----------	1
7	1000.0000	1970280.91	619345.64	----------	----------	1

Average Calibration Factor = 2293.575897 (%RSD = 14.25)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 18.307 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	11558.02	3656.20	----------	----------	1
2	25.0000	27299.34	8719.24	----------	----------	1
3	100.0000	99463.79	32051.24	----------	----------	1
4	250.0000	192821.34	61052.07	----------	----------	1
5	500.0000	429813.71	137369.21	----------	----------	1
6	750.0000	591896.56	187936.47	----------	----------	1
7	1000.0000	759961.80	239421.06	----------	----------	1

Average Calibration Factor = 917.497717 (%RSD = 17.75)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.642 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	203741.21	64457.27	----------	----------	1
4	50.0000	387840.94	124286.31	----------	----------	1
5	100.0000	836459.74	258346.96	----------	----------	1
6	150.0000	1100187.29	342154.97	----------	----------	1
7	200.0000	1415265.08	438763.20	----------	----------	1

Average Calibration Factor = 8143.876800 (%RSD = 15.25)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
230576.05	62795.44	20.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
489654.36	133315.76	50.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1058904.69	280995.29	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1597577.72	431211.17	150.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2000763.06	534505.51	200.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27031.46	7151.92	2.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60541.64	15999.56	5.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2614.76	758.19	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6047.28	1712.54	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25435.36	7073.23	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55413.64	14848.26	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119683.96	31422.09	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
180885.32	47343.69	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
224281.06	58621.51	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5334.92	1266.93	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12481.31	2865.62	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52571.61	11523.98	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103798.14	23215.39	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216827.41	47419.82	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
321143.91	70179.44	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
393826.68	85470.55	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17056.31	5094.55	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43066.96	11773.25	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175960.19	47693.44	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
364574.32	98980.61	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
790353.41	212600.71	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1176192.11	316038.39	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1464796.77	394744.59	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#3
Level : 1

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5647.33	1769.88	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13342.29	4095.21	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54922.03	16516.23	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114698.09	34201.92	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251248.30	74712.63	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371615.50	110108.29	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
465894.44	139736.84	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2425.29	793.10	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5948.41	1848.81	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24300.30	7568.07	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51416.21	15924.26	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116446.84	35531.93	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
173718.76	53438.94	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220301.44	67279.67	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1034.02	506.44	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5247.68	1251.07	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18730.89	5011.93	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39248.24	10790.78	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86146.90	23514.24	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128828.61	34968.02	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160493.14	43636.01	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157135.71	46457.71	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
162748.64	45972.56	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
280015.34	81048.45	250.0000	----------	----------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2684.03	880.17	10.0000	---------	---------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6162.67	2029.81	25.0000	---------	---------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25801.69	8305.58	100.0000	---------	---------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53344.18	16736.94	250.0000	---------	---------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116893.53	37148.00	500.0000	---------	---------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
168610.19	53664.22	750.0000	---------	---------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
212272.76	67364.88	1000.0000	---------	---------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
232151.81	57119.32	250.0000	---------	---------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
310509.19	65700.49	250.0000	---------	---------	10/28/04	11:41:57 AM	G:\gc06\cha\301a005p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3769.94	1120.61	10.0000	---------	---------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8946.58	2602.39	25.0000	---------	---------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33829.17	10226.79	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69304.46	20475.87	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
156529.81	46919.71	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226397.08	67041.51	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290132.94	88834.64	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4200.80	1408.12	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10342.79	3404.72	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42964.13	13619.77	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86198.85	26676.27	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188698.76	58756.39	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
263280.73	84713.50	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
334249.52	107548.08	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#4
Level : 1

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5994.41	1768.85	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10121.95	3748.28	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48965.52	15421.46	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93595.94	29559.75	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209009.75	64451.94	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
291742.67	91324.34	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
373663.89	116176.99	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28207.21	8833.94	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62873.33	20504.43	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251024.29	79624.84	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
495264.78	154500.90	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100945.56	344645.24	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1541927.23	484680.03	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1970280.91	619345.64	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11558.02	3656.20	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27299.34	8719.24	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
99463.79	32051.24	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
192821.34	61052.07	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
429813.71	137369.21	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
591896.56	187936.47	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
759961.80	239421.06	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
203741.21	64457.27	20.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
387840.94	124286.31	50.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
836459.74	258346.96	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

11/12/04 12:34:38 PM Method: G:\gc06\files\5460a316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100187.29	342154.97	150.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7 Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1415265.08	438763.20	200.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Turbochrom Method File G:\gc06\files\5460b316.mth
Printed by : analyst on: 11/12/04 12:48:41 PM
Created by : analyst on: 11/12/04 11:25:52 AM
Edited by : analyst on: 11/12/04 12:48:37 PM
Number of Times Edited : 19
Number of Times Calibrated : 210
Description: gc 06

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 6.468 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	417535.59	107450.20	----------	----------	1
4	50.0000	865412.65	211766.74	----------	----------	1
5	100.0000	1756542.62	435806.13	----------	----------	1
1	2.0000	52464.74	13582.34	----------	----------	1
2	5.0000	117079.49	29448.58	----------	----------	1
6	150.0000	2585454.41	659761.68	----------	----------	1
7	200.0000	3182766.70	813803.41	----------	----------	1

Average Calibration Factor = 19792.703181 (%RSD = 19.40)

11/12/04

PCB1016#1
Component Type : Single Peak Component
Retention Time : 7.351 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4735.19	1251.45	----------	----------	1
2	25.0000	11128.56	2874.03	----------	----------	1
3	100.0000	45281.46	11566.31	----------	----------	1
4	250.0000	106694.40	24486.31	----------	----------	1
5	500.0000	209246.24	50402.41	----------	----------	1
6	750.0000	320567.07	76513.02	----------	----------	1
7	1000.0000	380135.03	93279.33	----------	----------	1

Average Calibration Factor = 432.043393 (%RSD = 6.85)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 8.814 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	7668.52	2232.86	----------	----------	1
2	25.0000	16742.59	5017.95	----------	----------	1
3	100.0000	63015.84	18897.08	----------	----------	1
4	250.0000	133617.15	38017.65	----------	----------	1
5	500.0000	266742.73	77706.09	----------	----------	1
6	750.0000	395517.18	113297.48	----------	----------	1
7	1000.0000	472919.78	136992.42	----------	----------	1

Average Calibration Factor = 590.706283 (%RSD = 17.37)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 9.466 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18781.51	3731.55	----------	----------	1
2	25.0000	41840.17	8393.44	----------	----------	1
3	100.0000	160277.06	32380.92	----------	----------	1
4	250.0000	351234.46	67806.22	----------	----------	1
5	500.0000	714949.37	142763.92	----------	----------	1
6	750.0000	1043320.26	209216.94	----------	----------	1
7	1000.0000	1277925.05	259941.94	----------	----------	1

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Average Calibration Factor = 1522.626241 (%RSD = 13.55)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	40898.63	10192.48	----------	----------	1
2	25.0000	92981.59	23206.82	----------	----------	1
3	100.0000	361843.73	90503.77	----------	----------	1
4	250.0000	815999.70	190274.45	----------	----------	1
5	500.0000	1655422.24	393511.29	----------	----------	1
6	750.0000	2441838.47	584999.28	----------	----------	1
7	1000.0000	2971760.27	721325.81	----------	----------	1

Average Calibration Factor = 3461.421725 (%RSD = 10.74)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 9.908 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3988.25	1217.31	----------	----------	1
2	25.0000	9520.44	2767.99	----------	----------	1
3	100.0000	38328.43	11446.84	----------	----------	1
4	250.0000	109849.59	26986.54	----------	----------	1
5	500.0000	229947.63	52103.82	----------	----------	1
6	750.0000	341650.43	81672.86	----------	----------	1
7	1000.0000	423281.08	102751.40	----------	----------	1

Average Calibration Factor = 420.147909 (%RSD = 7.88)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 10.831 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5725.17	1759.30	----------	----------	1
2	25.0000	13749.82	4153.41	----------	----------	1
3	100.0000	54940.94	16212.62	----------	----------	1
4	250.0000	114604.11	32977.73	----------	----------	1
5	500.0000	234536.26	70535.06	----------	----------	1
6	750.0000	340783.52	104298.99	----------	----------	1
7	1000.0000	417499.33	128360.72	----------	----------	1

Average Calibration Factor = 495.897900 (%RSD = 12.11)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 11.450 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	247258.62	71932.91	----------	----------	1

Average Calibration Factor = 989.034469 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 11.973 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	338487.07	91477.10	----------	----------	1

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Average Calibration Factor = 1353.948284 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 12.635 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	205630.99	59242.22	----------	----------	1

Average Calibration Factor = 822.523953 (%RSD = 0.00)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 14.408 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	67462.74	17633.06	----------	----------	1

Average Calibration Factor = 269.850946 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.553 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	12350.30	4372.89	----------	----------	1
2	25.0000	31107.54	10320.93	----------	----------	1
3	100.0000	109732.87	36253.97	----------	----------	1
4	250.0000	221062.46	70503.76	----------	----------	1
5	500.0000	452676.06	145739.47	----------	----------	1
6	750.0000	623720.92	203070.26	----------	----------	1
7	1000.0000	797697.07	256159.36	----------	----------	1

Average Calibration Factor = 999.369600 (%RSD = 18.99)

PCB1254#5
Component Type : Single Peak Component
Retention Time : 14.760 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	315795.57	81667.74	----------	----------	1

Average Calibration Factor = 1263.182284 (%RSD = 0.00)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 15.240 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	14028.90	4428.91	----------	----------	1
2	25.0000	35536.76	10752.30	----------	----------	1
3	100.0000	138314.53	39473.52	----------	----------	1
4	250.0000	288739.04	81560.71	----------	----------	1
5	500.0000	608979.93	172418.71	----------	----------	1
6	750.0000	810471.14	229045.40	----------	----------	1
7	1000.0000	1062506.99	294746.87	----------	----------	1

Average Calibration Factor = 1246.222448 (%RSD = 12.44)

PCB1260#3

Component Type : Single Peak Component
Retention Time : 15.641 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8007.17	2820.00	----------	----------	1
2	25.0000	21696.40	7049.76	----------	----------	1
3	100.0000	70873.85	24131.10	----------	----------	1
4	250.0000	145056.98	48529.42	----------	----------	1
5	500.0000	300194.68	101180.23	----------	----------	1
6	750.0000	407718.04	136862.44	----------	----------	1
7	1000.0000	536022.82	174859.76	----------	----------	1

Average Calibration Factor = 662.510863 (%RSD = 19.89)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 16.214 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8041.75	2877.18	----------	----------	1
2	25.0000	20879.10	7213.17	----------	----------	1
3	100.0000	81392.81	26721.22	----------	----------	1
4	250.0000	155034.61	52493.41	----------	----------	1
5	500.0000	328797.96	109927.59	----------	----------	1
6	750.0000	448339.95	147303.78	----------	----------	1
7	1000.0000	597963.88	190729.05	----------	----------	1

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Average Calibration Factor = 703.821646 (%RSD = 15.46)

PCB1260#5
Component Type : Single Peak Component
Retention Time : 16.868 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18564.66	6110.25	----------	----------	1
2	25.0000	44440.74	14335.96	----------	----------	1
3	100.0000	157995.84	50903.75	----------	----------	1
4	250.0000	308469.04	97683.44	----------	----------	1
5	500.0000	656040.32	210395.23	----------	----------	1
6	750.0000	888359.67	284652.21	----------	----------	1
7	1000.0000	1158260.50	369299.56	----------	----------	1

Average Calibration Factor = 1443.250147 (%RSD = 20.21)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	60992.79	20609.22	----------	----------	1
2	25.0000	153660.53	49672.11	----------	----------	1
3	100.0000	558309.91	177483.56	----------	----------	1
4	250.0000	1118362.14	350770.74	----------	----------	1
5	500.0000	2346688.94	739661.23	----------	----------	1
6	750.0000	3178609.72	1.00e+06	----------	----------	1
7	1000.0000	4152451.27	1.29e+06	----------	----------	1

Average Calibration Factor = 5055.174703 (%RSD = 17.15)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.629 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	248072.50	79341.13	----------	----------	1
4	50.0000	454140.18	145920.11	----------	----------	1
5	100.0000	942227.25	315397.53	----------	----------	1
6	150.0000	1238324.01	413950.45	----------	----------	1
7	200.0000	1590011.58	530466.47	----------	----------	1

Average Calibration Factor = 9422.850445 (%RSD = 18.78)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
417535.59	107450.20	20.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
865412.65	211766.74	50.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1756542.62	435806.13	100.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52464.74	13582.34	2.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117079.49	29448.58	5.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2585454.41	659761.68	150.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3182766.70	813803.41	200.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4735.19	1251.45	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11128.56	2874.03	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45281.46	11566.31	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106694.40	24486.31	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209246.24	50402.41	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
320567.07	76513.02	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
380135.03	93279.33	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7668.52	2232.86	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16742.59	5017.95	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63015.84	18897.08	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133617.15	38017.65	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
266742.73	77706.09	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
395517.18	113297.48	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
472919.78	136992.42	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18781.51	3731.55	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41840.17	8393.44	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160277.06	32380.92	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
351234.46	67806.22	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
714949.37	142763.92	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1043320.26	209216.94	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1277925.05	259941.94	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40898.63	10192.48	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92981.59	23206.82	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
361843.73	90503.77	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
815999.70	190274.45	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1655422.24	393511.29	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2441838.47	584999.28	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2971760.27	721325.81	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3988.25	1217.31	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9520.44	2767.99	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38328.43	11446.84	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109849.59	26986.54	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229947.63	52103.82	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
341650.43	81672.86	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
423281.08	102751.40	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#5

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5725.17	1759.30	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13749.82	4153.41	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54940.94	16212.62	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114604.11	32977.73	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234536.26	70535.06	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
340783.52	104298.99	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
417499.33	128360.72	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
247258.62	71932.91	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
338487.07	91477.10	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205630.99	59242.22	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67462.74	17633.06	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12350.30	4372.89	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31107.54	10320.93	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109732.87	36253.97	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
221062.46	70503.76	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
452676.06	145739.47	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
623720.92	203070.26	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
797697.07	256159.36	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
315795.57	81667.74	250.0000	----------	----------	10/28/04	11:34:05 AM	G:\gc06\chb\301b005p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14028.90	4428.91	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35536.76	10752.30	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
138314.53	39473.52	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
288739.04	81560.71	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
608979.93	172418.71	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
810471.14	229045.40	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1062506.99	294746.87	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8007.17	2820.00	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21696.40	7049.76	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70873.85	24131.10	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
145056.98	48529.42	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
300194.68	101180.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
407718.04	136862.44	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
536022.82	174859.76	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8041.75	2877.18	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20879.10	7213.17	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81392.81	26721.22	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
155034.61	52493.41	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
328797.96	109927.59	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
448339.95	147303.78	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
597963.88	190729.05	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18564.66	6110.25	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44440.74	14335.96	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157995.84	50903.75	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
308469.04	97683.44	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
656040.32	210395.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
888359.67	284652.21	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1158260.50	369299.56	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60992.79	20609.22	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153660.53	49672.11	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/12/04 12:48:41 PM Method: G:\gc06\files\5460b316.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
558309.91	177483.56	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1118362.14	350770.74	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2346688.94	739661.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3178609.72	1.00093e+006	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4152451.27	1.28579e+006	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
248072.50	79341.13	20.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
454140.18	145920.11	50.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
942227.25	315397.53	100.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1238324.01	413950.45	150.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1590011.58	530466.47	200.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: /mcm 11/15/04
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	316_009	204456284009	pcb10_2	11-NOV-2004 20:44	04WS1786
2	316_010	204456284010	pcb25_5	11-NOV-2004 21:18	04WS1787
3	316_011	204456284011	pcb100_20	11-NOV-2004 21:51	04WS1788
4	316_012	204456284012	pcb250_50	11-NOV-2004 22:24	04WS1789
5	316_013	204456284013	pcb500_100	11-NOV-2004 22:57	04WS1790
6	316_014	204456284014	pcb750_150	11-NOV-2004 23:30	04WS1791
7	316_015	204456284015	pcb1k_200	12-NOV-2004 00:04	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	261.48	241.89	254.35	221.65	239.37	241.18	224.28	AVRG	R		0.004156		pg	240.60	6	.99	20	
Aroclor-1016 Peak # 2	A	533.49	499.25	525.72	415.19	433.65	428.19	393.83	AVRG	R		0.002168		pg	461.33	12	.99	20	
Aroclor-1016 Peak # 3	A	564.73	533.69	549.22	458.79	502.50	495.49	465.89	AVRG	R		0.001961		pg	510.05	8	.99	20	
Aroclor-1016 Peak # 4	A	242.53	237.94	243.00	205.66	232.89	231.63	220.30	AVRG	R		0.004337		pg	230.56	6	.99	20	
Aroclor-1016 Peak # 5	A	103.40	209.91	187.31	156.99	172.29	171.77	160.49	AVRG	R		0.006023		pg	166.02	20	.99	20	
Aroclor-1260 Peak # 1	A	268.40	246.51	258.02	213.38	233.79	224.81	212.27	AVRG	R		0.004224		pg	236.74	9	.99	20	
Aroclor-1260 Peak # 2	A	376.99	357.86	338.29	277.22	313.06	301.86	290.13	AVRG	R		0.003104		pg	322.20	11	.99	20	
Aroclor-1260 Peak # 3	A	420.08	413.71	429.64	344.80	377.40	351.04	334.25	AVRG	R		0.002621		pg	381.56	10	.99	20	
Aroclor-1260 Peak # 4	A	599.44	404.88	489.66	374.38	418.02	388.99	373.66	AVRG	R		0.002296		pg	435.58	19	.99	20	
Aroclor-1260 Peak # 5	A	1155.8	1092.0	994.64	771.29	859.63	789.20	759.96	AVRG	R		0.001090		pg	917.50	18	.99	20	
TCMX	A	13516	12108	11529	9793.1	10589	10651	10004	AVRG	R		8.953E-5		pg	11170	12	.99	20	
Decachlorobiphenyl	A			10187	7756.8	8364.6	7334.6	7076.3	AVRG	R		1.228E-4		pg	8143.9	15	.99	20	
Aroclor-1016 Peak # 1	B	473.52	445.14	452.81	426.78	418.49	427.42	380.14	AVRG	R		0.002315		pg	432.04	7	.99	20	
Aroclor-1016 Peak # 2	B	766.85	669.70	630.16	534.47	533.49	527.36	472.92	AVRG	R		0.001693		pg	590.71	17	.99	20	
Aroclor-1016 Peak # 3	B	1878.2	1673.6	1602.8	1404.9	1429.9	1391.1	1277.9	AVRG	R		6.568E-4		pg	1522.6	14	.99	20	
Aroclor-1016 Peak # 4	B	398.83	380.82	383.28	439.40	459.90	455.53	423.28	AVRG	R		0.002380		pg	420.15	8	.99	20	
Aroclor-1016 Peak # 5	B	572.52	549.99	549.41	458.42	469.07	454.38	417.50	AVRG	R		0.002017		pg	495.90	12	.99	20	
Aroclor-1260 Peak # 1	B	1235.0	1244.3	1097.3	884.25	905.35	831.63	797.70	AVRG	R		0.001001		pg	999.37	19	.99	20	
Aroclor-1260 Peak # 2	B	1402.9	1421.5	1383.1	1155.0	1218.0	1080.6	1062.5	AVRG	R		8.024E-4		pg	1246.2	12	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

11/12/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By:
Calnum: 204456284001 Name: Type: (normal) Date: 11-NOV-2004 20:44 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	800.72	867.86	708.74	580.23	600.39	543.62	536.02	AVRG	R		0.001509		pg	662.51	20	.99	20	
Aroclor-1260 Peak # 4	B	804.18	835.16	813.93	620.14	657.60	597.79	597.96	AVRG	R		0.001421		pg	703.82	15	.99	20	
Aroclor-1260 Peak # 5	B	1856.5	1777.6	1580.0	1233.9	1312.1	1184.5	1158.3	AVRG	R		6.929E-4		pg	1443.3	20	.99	20	
TCMX	B	26232	23416	20877	17308	17565	17236	15914	AVRG	R		5.052E-5		pg	19793	19	.99	20	
Decachlorobiphenyl	B			12404	9082.8	9422.3	8255.5	7950.1	AVRG	R		1.061E-4		pg	9422.9	19	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 11/12/04 12:02:57 PM
Data Acquisition Time : 11/11/04 8:44:53 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a009p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.654	27031.46	1.77	1.0000	1	1.77	0.35
Aroclor-1016	10.864	17056.31	8.09	1.0000	1	8.09	1.62
Aroclor-1254	15.992	26258.57	0.03	1.0000	1	0.03	0.01
Aroclor-1260	18.308	28207.21	5.76	1.0000	1	5.76	1.15
Decachlorobiphenyl	21.644	25482.48	2.08	1.0000	1	2.08	0.42
		124036.04	17.72			17.72	3.54

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.666	2614.76	6.91	1.0000	1	6.91	1.38
PCB1016#2	9.628	5334.92	8.05	1.0000	1	8.05	1.61
PCB1016#3	10.864	5647.33	15.49	1.0000	1	15.49	3.10
PCB1016#4	11.373	2425.29	9.38	1.0000	1	9.38	1.88
PCB1016#5	11.861	1034.02	2.32	1.0000	1	2.32	0.46
		17056.31	42.16			42.16	8.43

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.579	2367.14	3.77	1.0000	1	3.77	0.75
PCB1254#2	13.870	4498.20	6.91	1.0000	1	6.91	1.38
PCB1254#3	14.230	176.01	0.16	1.0000	1	0.16	0.03
PCB1254#4	15.317	6308.27	6.79	1.0000	1	6.79	1.36
PCB1254#5	15.992	12908.95	10.39	1.0000	1	10.39	2.08
		26258.57	28.02			28.02	5.60

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.970	2684.03	3.19	1.0000	1	3.19	0.64
PCB1260#2	16.303	3769.94	6.61	1.0000	1	6.61	1.32
PCB1260#3	16.956	4200.80	4.75	1.0000	1	4.75	0.95
PCB1260#4	17.561	5994.41	8.32	1.0000	1	8.32	1.66
PCB1260#5	18.308	11558.02	6.15	1.0000	1	6.15	1.23
		28207.21	29.02			29.02	5.80

11/12/04

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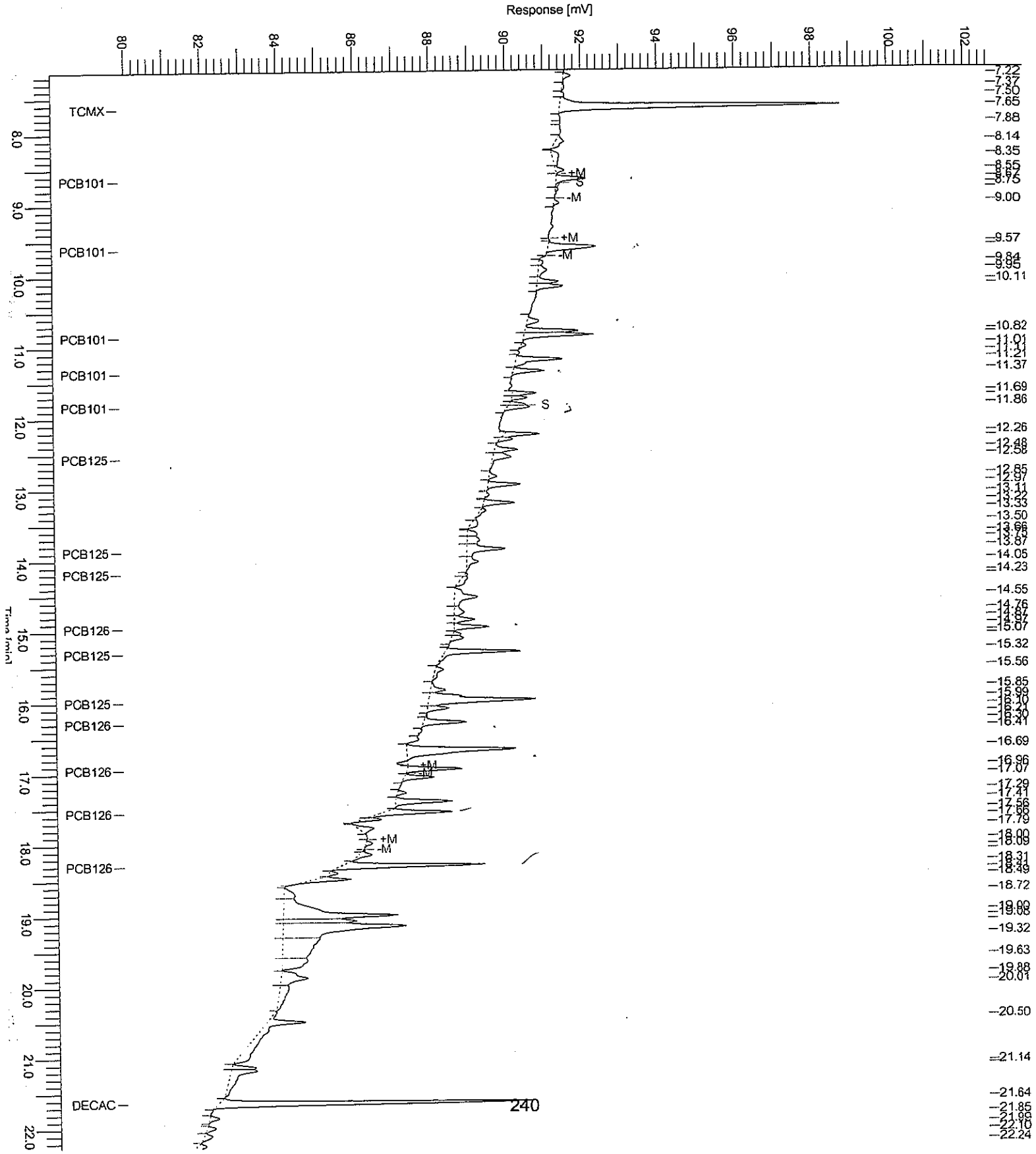
Report stored in ASCII file: G:\gc06\cha\316a009p.TX0

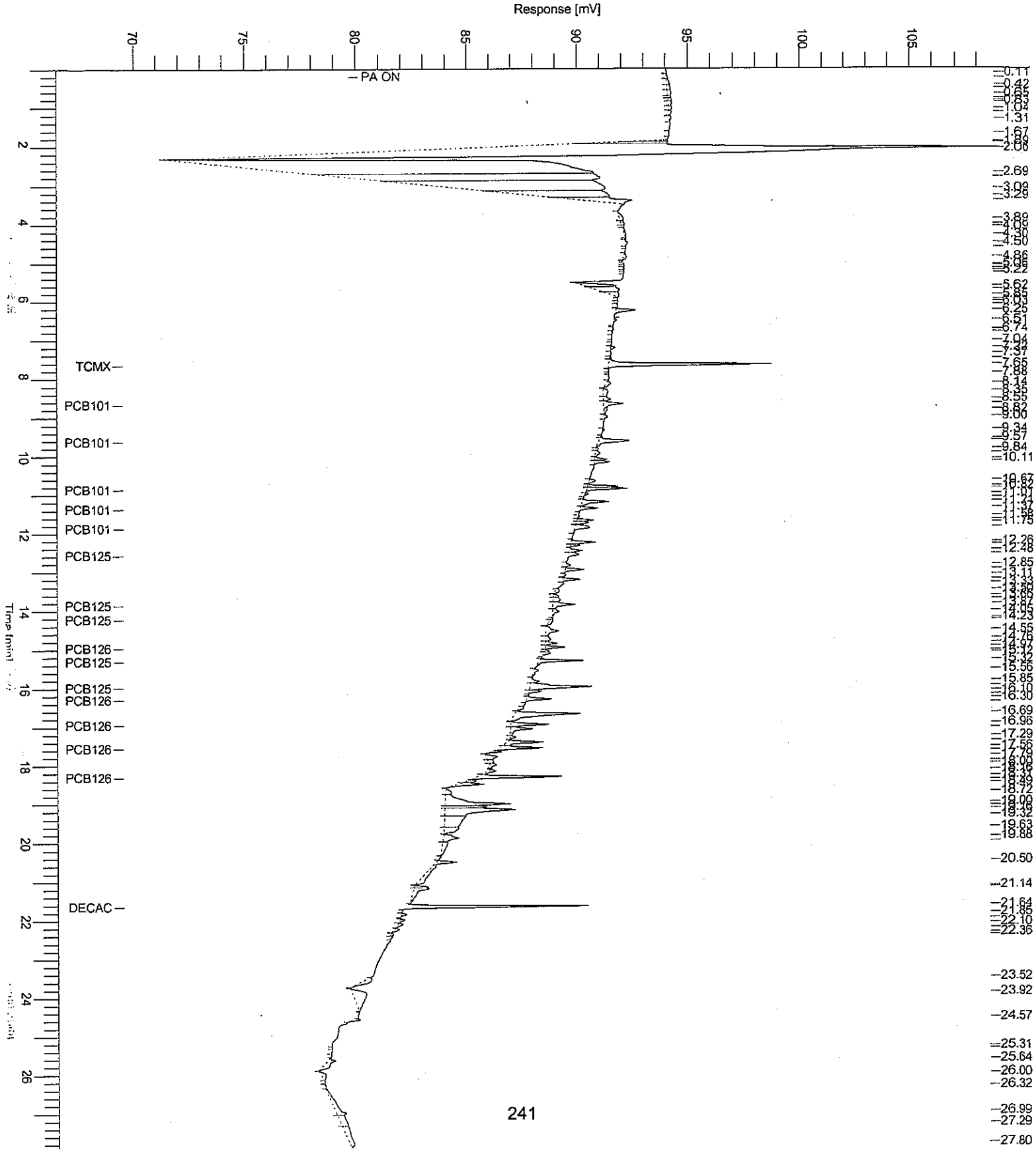
GC 06 Rtx-CLPesticides

mple Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l
Name : G:\gc06\CHa\316a009.raw
le : 11/12/04 12:03:01 PM
thod :
Time of Injection: 11/11/04 8:44:53 PM
rt Time : 7.13 min End Time : 22.27 min Low Point : 79.83 mV High Point : 102.62 mV
t Offset: 79.83 mV Plot Scale: 22.8 mV



GC 06 Rtx-CLPesticides

ample Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\CHa\316a009.raw
ate : 11/12/04 11:27:20 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 8:44:53 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 69.51 mV High Point : 108.80 mV
cale Factor: 1.0 Plot Offset: 69.51 mV Plot Scale: 39.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc06
Rack/Vial : 1/9
Sample Amount : 1.000000
Cycle : 9

Date : 11/12/04 12:47:01 PM
Data Acquisition Time : 11/11/04 8:44:53 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b009p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.473	52464.74	2.35	1.0000	1	2.35	0.47
Aroclor-1016	9.466	40898.63	9.85	1.0000	1	9.85	1.97
Aroclor-1254	14.411	1858.22	0.00	1.0000	1	0.00	0.00
Aroclor-1260	16.871	60992.79	10.22	1.0000	1	10.22	2.04
Decachlorobiphenyl	20.632	33362.23	2.21	1.0000	1	2.21	0.44
		189576.60	24.63			24.63	4.93

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.358	4735.19	10.16	1.0000	1	10.16	2.03
PCB1016#2	8.816	7668.52	12.21	1.0000	1	12.21	2.44
PCB1016#3	9.466	18781.51	9.66	1.0000	1	9.66	1.93
PCB1016#4	9.910	3988.25	8.23	1.0000	1	8.23	1.65
PCB1016#5	10.837	5725.17	9.10	1.0000	1	9.10	1.82
		40898.63	49.36			49.36	9.87

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.632	463.58	0.56	1.0000	1	0.56	0.11
PCB1254#4	14.411	1394.63	5.17	1.0000	1	5.17	1.03
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		1858.22	5.73			5.73	1.15

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.558	12350.30	11.15	1.0000	1	11.15	2.23
PCB1260#2	15.240	14028.90	10.93	1.0000	1	10.93	2.19
PCB1260#3	15.642	8007.17	9.60	1.0000	1	9.60	1.92
PCB1260#4	16.214	8041.75	9.65	1.0000	1	9.65	1.93
PCB1260#5	16.871	18564.66	9.72	1.0000	1	9.72	1.94
		60992.79	51.05			51.05	10.21

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Report stored in ASCII file: G:\gc06\chb\316b009p.TX0

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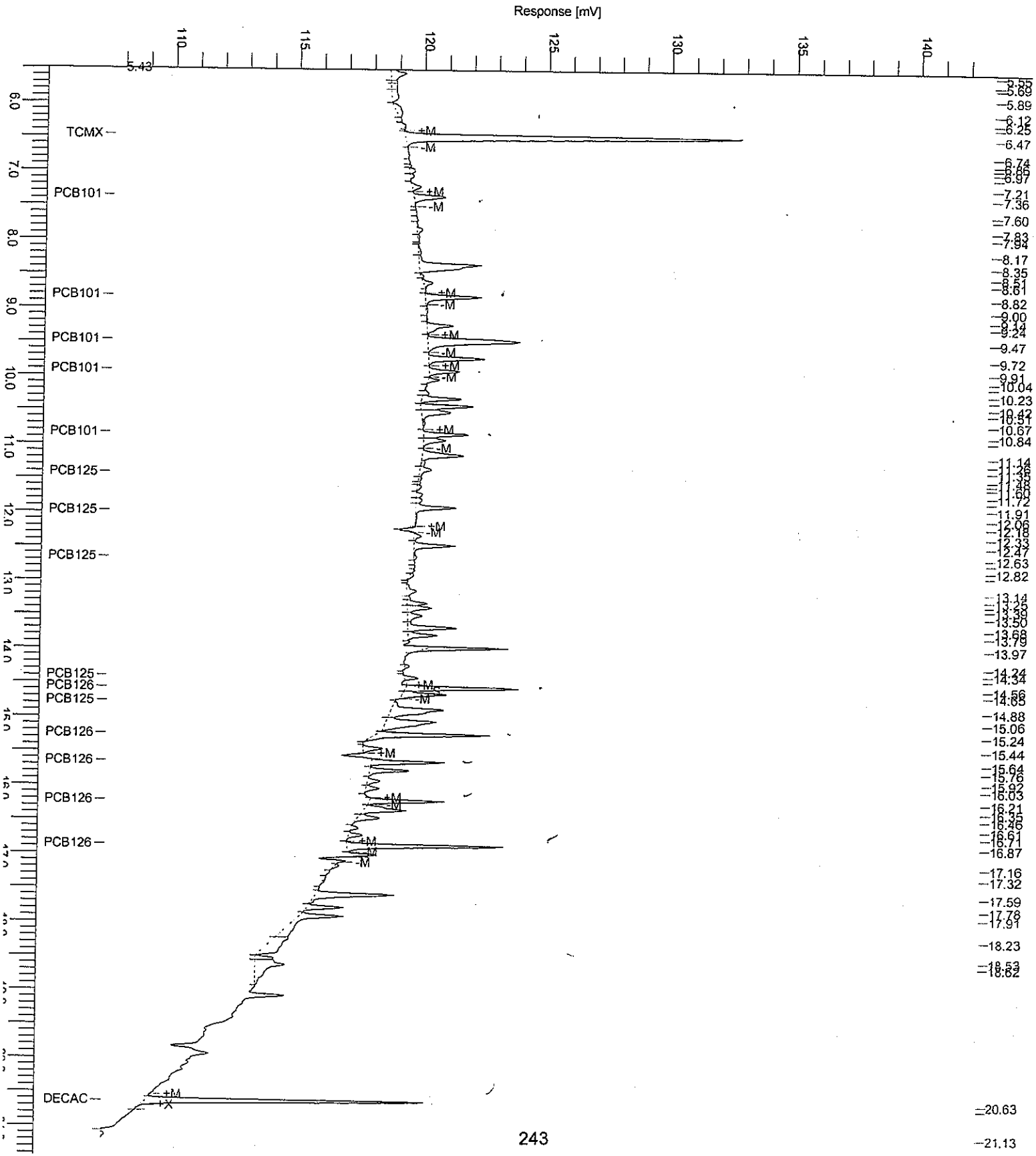
ethod :
Time of Injection: 11/11/04 8:44:53 PM
art Time : 5.49 min End Time : 21.44 min Low Point : 107.56 mV High Point : 142.96 mV
ot Offset: 107.56 mV Plot Scale: 35.4 mV



GC 06 Rtx-5

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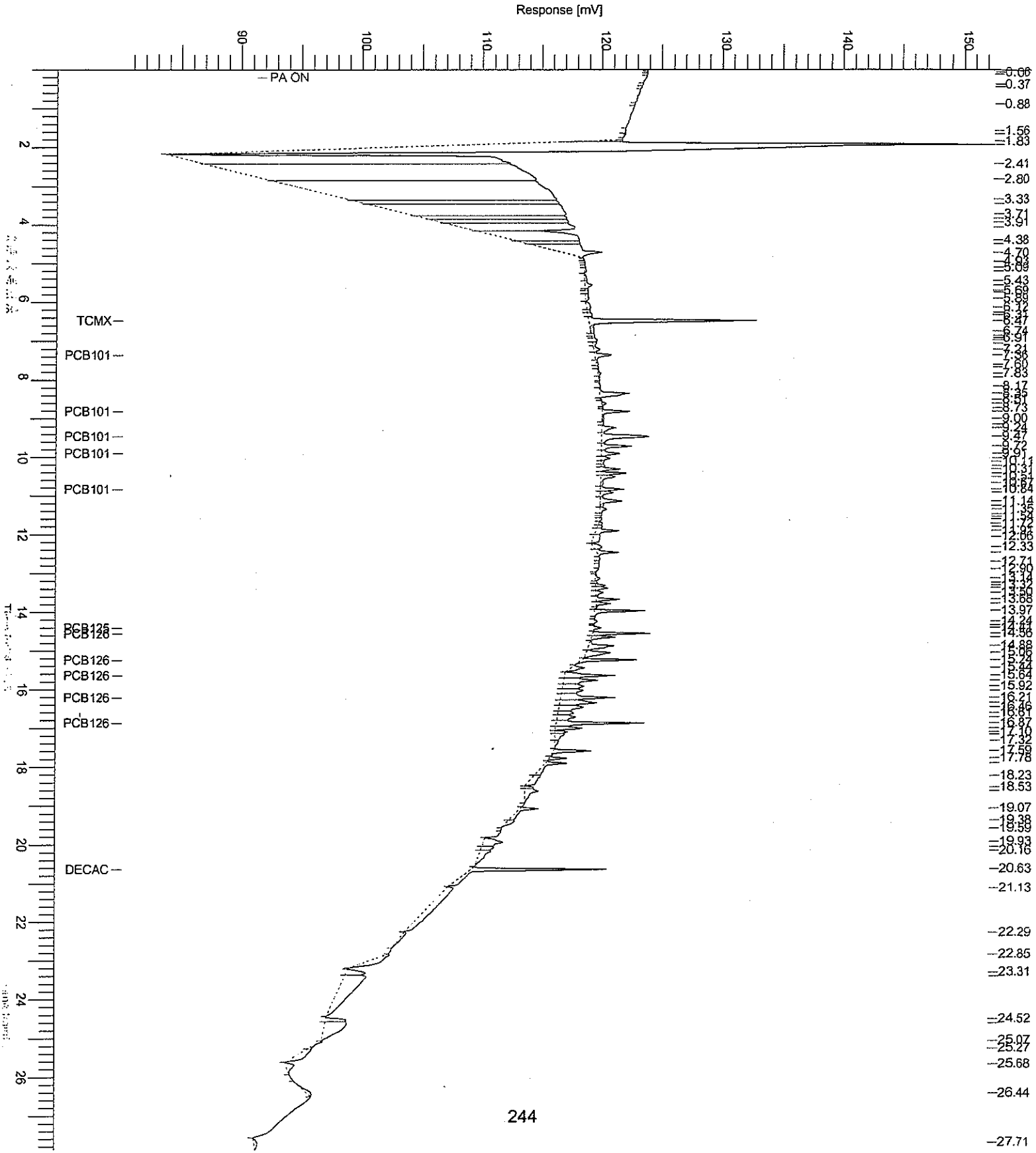
:cale Factor: 1.0 Plot Offset: 80.15 mV Plot Scale: 72.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/10
Sample Amount : 1.000000
Cycle : 10

Date : 11/12/04 12:03:40 PM
Data Acquisition Time : 11/11/04 9:18:06 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a010p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	60541.64	3.96	1.0000	1	3.96	0.79
Aroclor-1016	10.862	43066.96	20.42	1.0000	1	20.42	4.08
Aroclor-1254	15.991	54838.21	0.05	1.0000	1	0.05	0.01
Aroclor-1260	18.306	62873.33	12.84	1.0000	1	12.84	2.57
Decachlorobiphenyl	21.642	58464.34	4.77	1.0000	1	4.77	0.95
		279784.48	42.05			42.05	8.41

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.665	6047.28	15.99	1.0000	1	15.99	3.20
PCB1016#2	9.627	12481.31	18.84	1.0000	1	18.84	3.77
PCB1016#3	10.862	13342.29	36.59	1.0000	1	36.59	7.32
PCB1016#4	11.371	5948.41	23.01	1.0000	1	23.01	4.60
PCB1016#5	11.840	5247.68	11.79	1.0000	1	11.79	2.36
		43066.96	106.22			106.22	21.24

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.578	4340.14	6.91	1.0000	1	6.91	1.38
PCB1254#2	13.869	9537.14	14.65	1.0000	1	14.65	2.93
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.312	15455.10	16.64	1.0000	1	16.64	3.33
PCB1254#5	15.991	25505.83	20.54	1.0000	1	20.54	4.11
		54838.21	58.73			58.73	11.75

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.968	6162.67	7.33	1.0000	1	7.33	1.47
PCB1260#2	16.301	8946.58	15.70	1.0000	1	15.70	3.14
PCB1260#3	16.955	10342.79	11.69	1.0000	1	11.69	2.34
PCB1260#4	17.558	10121.95	14.04	1.0000	1	14.04	2.81
PCB1260#5	18.306	27299.34	14.53	1.0000	1	14.53	2.91
		62873.33	63.29			63.29	12.66

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Report stored in ASCII file: G:\gc06\cha\316a010p.TX0

GC 06 Rtx-CLPesticides

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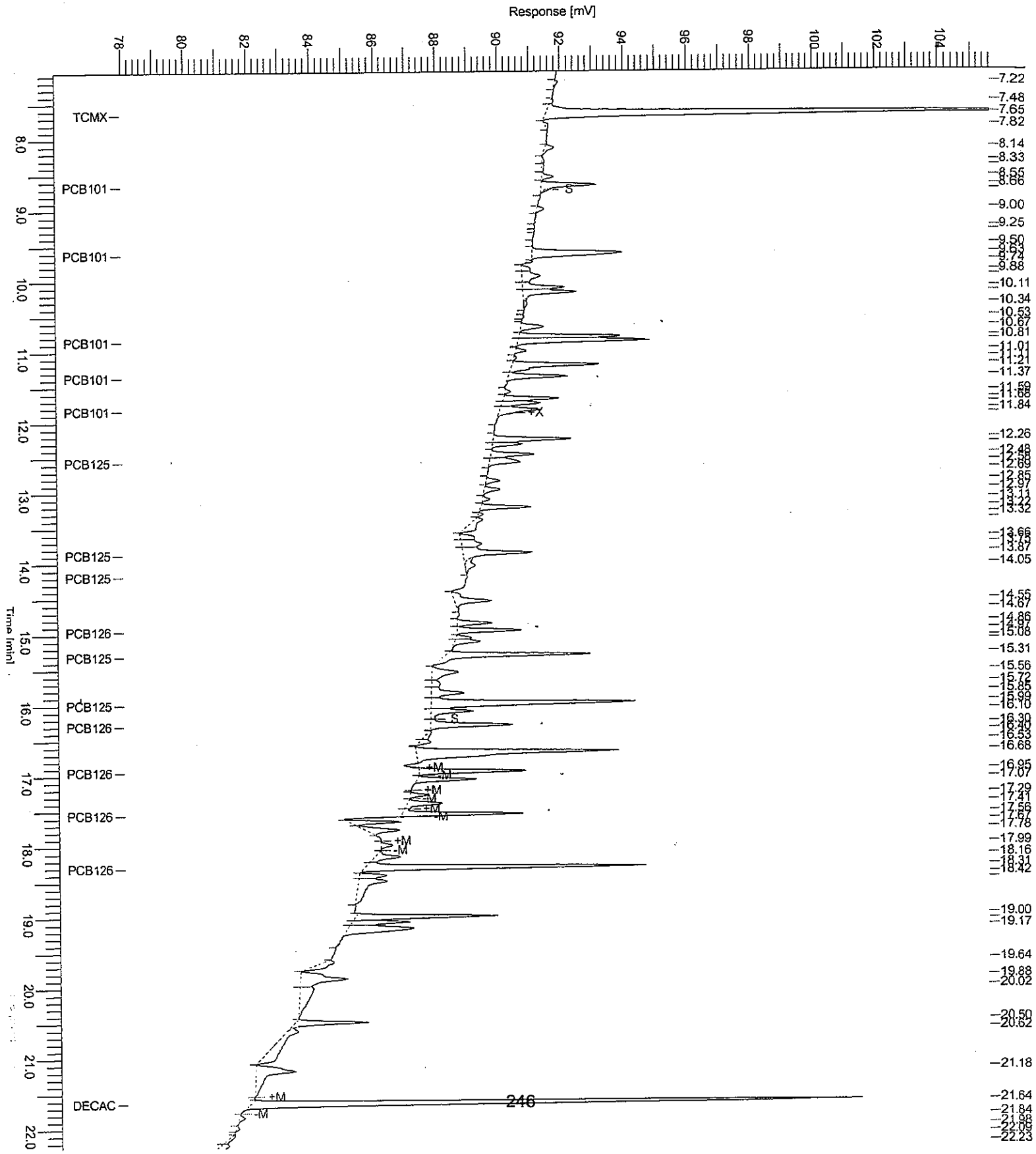

GC 06 Rtx-CLPesticides

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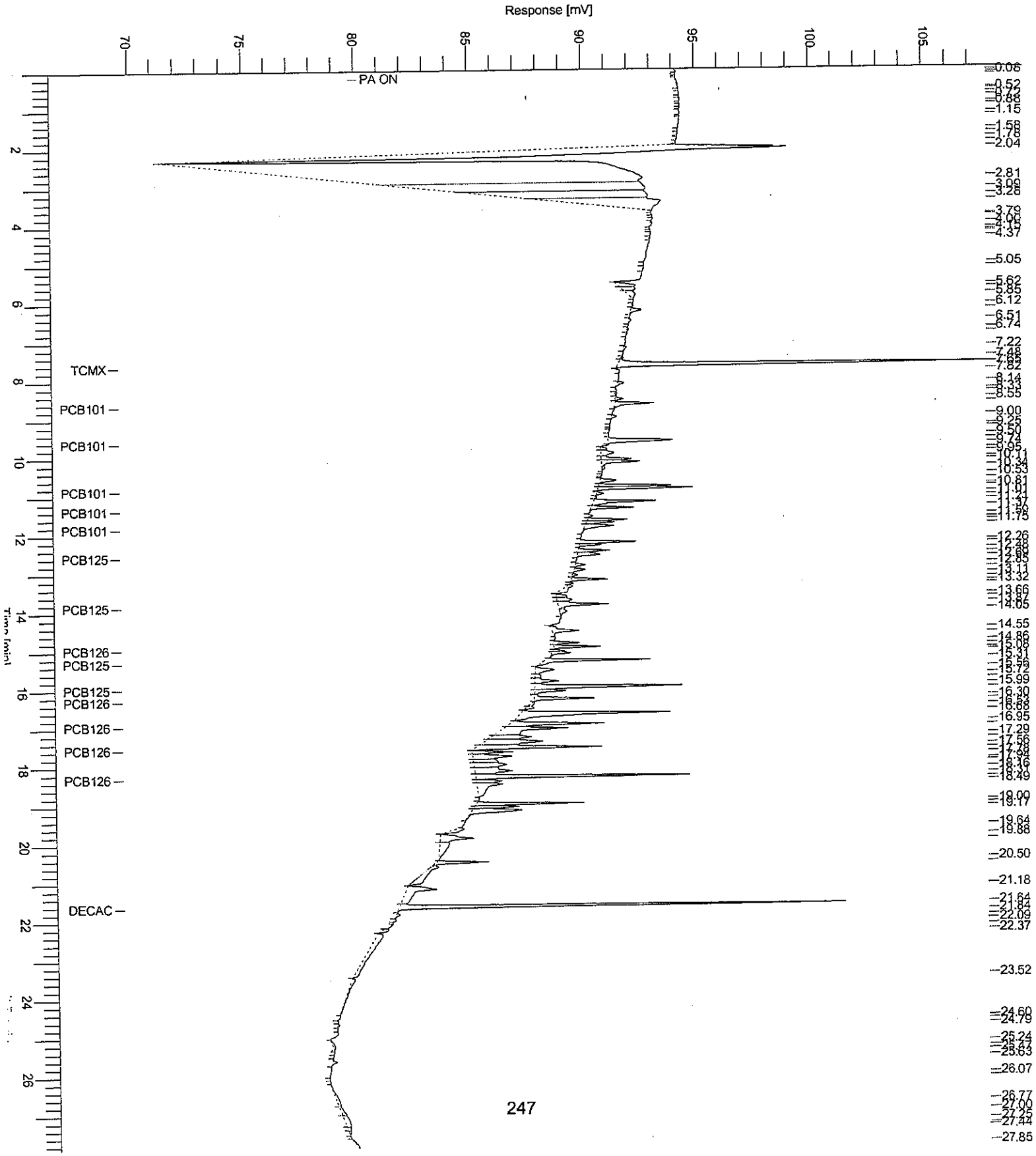
te : 11/12/04 11:27:25 AM
thod : gc06fsa1ul Time of Injection: 11/11/04 9:18:06 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 69.50 mV High Point : 107.86 mV
ale Factor: 1.0 Plot Offset: 69.50 mV Plot Scale: 38.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc06
Rack/Vial : 1/10
Sample Amount : 1.000000
Cycle : 10

Date : 11/12/04 12:22:13 PM
Data Acquisition Time : 11/11/04 9:18:06 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b010p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.473	117079.49	5.25	1.0000	1	5.25	1.05
Aroclor-1016	9.465	92981.59	22.39	1.0000	1	22.39	4.48
Aroclor-1254	14.410	4110.77	0.00	1.0000	1	0.00	0.00
Aroclor-1260	16.869	153660.53	25.75	1.0000	1	25.75	5.15
Decachlorobiphenyl	20.631	75156.96	4.98	1.0000	1	4.98	1.00
		442989.34	58.36			58.36	11.67

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.354	11128.56	23.88	1.0000	1	23.88	4.78
PCB1016#2	8.815	16742.59	26.66	1.0000	1	26.66	5.33
PCB1016#3	9.465	41840.17	21.52	1.0000	1	21.52	4.30
PCB1016#4	9.909	9520.44	19.65	1.0000	1	19.65	3.93
PCB1016#5	10.833	13749.82	21.84	1.0000	1	21.84	4.37
		92981.59	113.55			113.55	22.71

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.457	156.02	0.16	1.0000	1	0.16	0.03
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.410	3954.75	14.66	1.0000	1	14.66	2.93
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		4110.77	14.81			14.81	2.96

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.557	31107.54	28.09	1.0000	1	28.09	5.62
PCB1260#2	15.240	35536.76	27.69	1.0000	1	27.69	5.54
PCB1260#3	15.641	21696.40	26.02	1.0000	1	26.02	5.20
PCB1260#4	16.214	20879.10	25.06	1.0000	1	25.06	5.01
PCB1260#5	16.869	44440.74	23.26	1.0000	1	23.26	4.65
		153660.53	130.12			130.12	26.02

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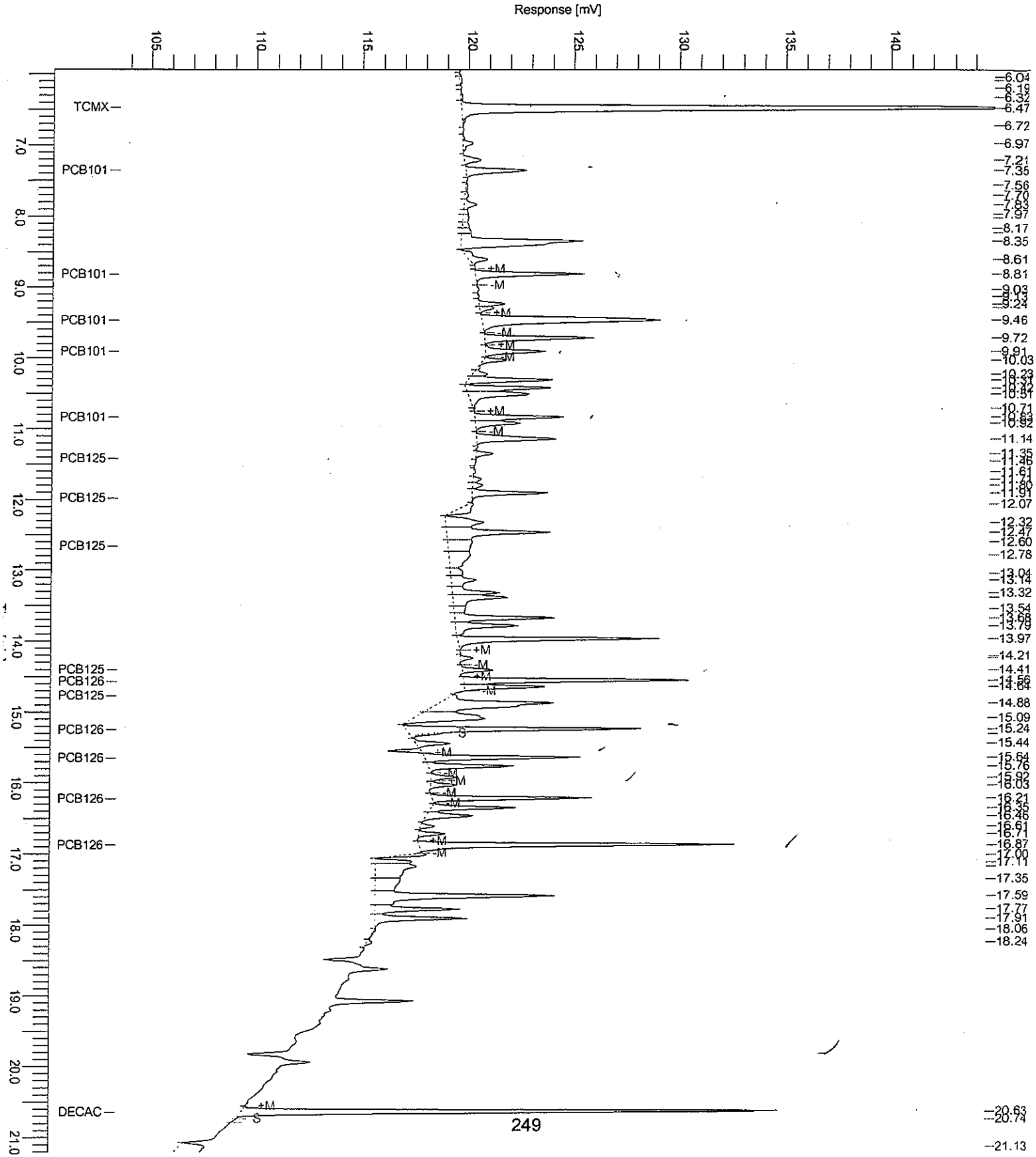
Report stored in ASCII file: G:\gc06\chb\316b010p.TX0

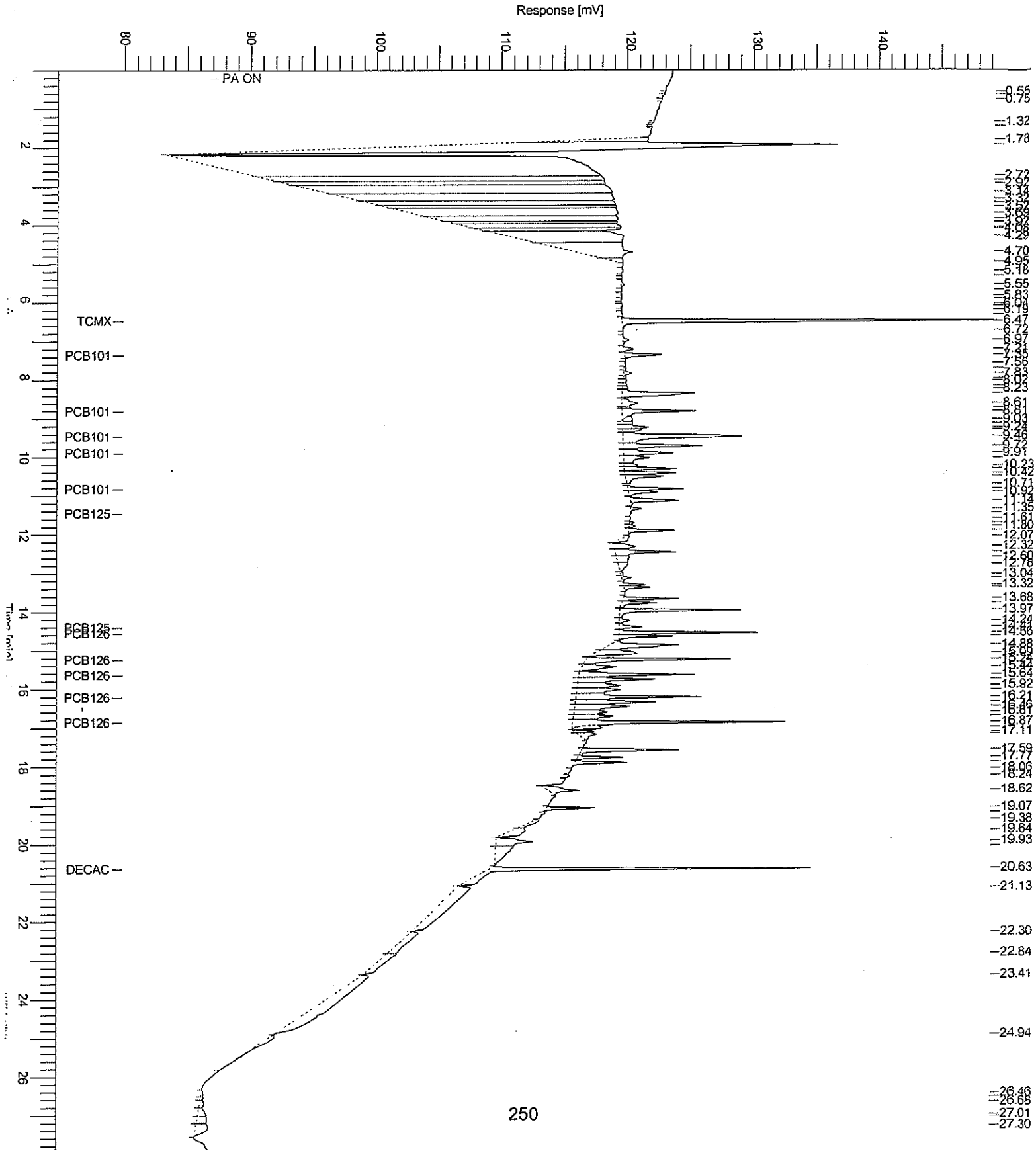
GC 06 Rtx-5

Sample Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b010.raw
Date : 11/12/04 12:22:19 PM
Method : Time of Injection: 11/11/04 9:18:06 PM
Start Time : 5.93 min End Time : 21.21 min Low Point : 103.49 mV High Point : 144.85 mV
Plot Offset: 103.49 mV Plot Scale: 41.4 mV



GC 06 Rtx-5

Sample Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\316b010
Date : 11/12/04 11:28:10 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 9:18:06 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 79.91 mV High Point : 149.25 mV
Scale Factor: 1.0 Plot Offset: 79.91 mV Plot Scale: 69.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 11/12/04 12:04:35 PM
Data Acquisition Time : 11/11/04 9:51:26 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a011p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.654	230576.05	15.10	1.0000	1	15.10	3.02
Aroclor-1016	10.863	175960.19	83.43	1.0000	1	83.43	16.69
Aroclor-1254	15.993	190343.82	0.19	1.0000	1	0.19	0.04
Aroclor-1260	18.308	251024.29	51.28	1.0000	1	51.28	10.26
Decachlorobiphenyl	21.643	203741.21	16.62	1.0000	1	16.62	3.32
		1051645.57	166.62			166.62	33.32

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.665	25435.36	67.25	1.0000	1	67.25	13.45
PCB1016#2	9.628	52571.61	79.35	1.0000	1	79.35	15.87
PCB1016#3	10.863	54922.03	150.63	1.0000	1	150.63	30.13
PCB1016#4	11.372	24300.30	93.99	1.0000	1	93.99	18.80
PCB1016#5	11.841	18730.89	42.08	1.0000	1	42.08	8.42
		175960.19	433.30			433.30	86.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.579	17996.13	28.63	1.0000	1	28.63	5.73
PCB1254#2	13.871	27650.58	42.47	1.0000	1	42.47	8.49
PCB1254#3	14.221	1044.78	0.93	1.0000	1	0.93	0.19
PCB1254#4	15.316	53815.69	57.95	1.0000	1	57.95	11.59
PCB1254#5	15.993	89836.64	72.33	1.0000	1	72.33	14.47
		190343.82	202.32			202.32	40.46

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.970	25801.69	30.68	1.0000	1	30.68	6.14
PCB1260#2	16.303	33829.17	59.35	1.0000	1	59.35	11.87
PCB1260#3	16.956	42964.13	48.57	1.0000	1	48.57	9.71
PCB1260#4	17.561	48965.52	67.94	1.0000	1	67.94	13.59
PCB1260#5	18.308	99463.79	52.93	1.0000	1	52.93	10.59
		251024.29	259.48			259.48	51.90

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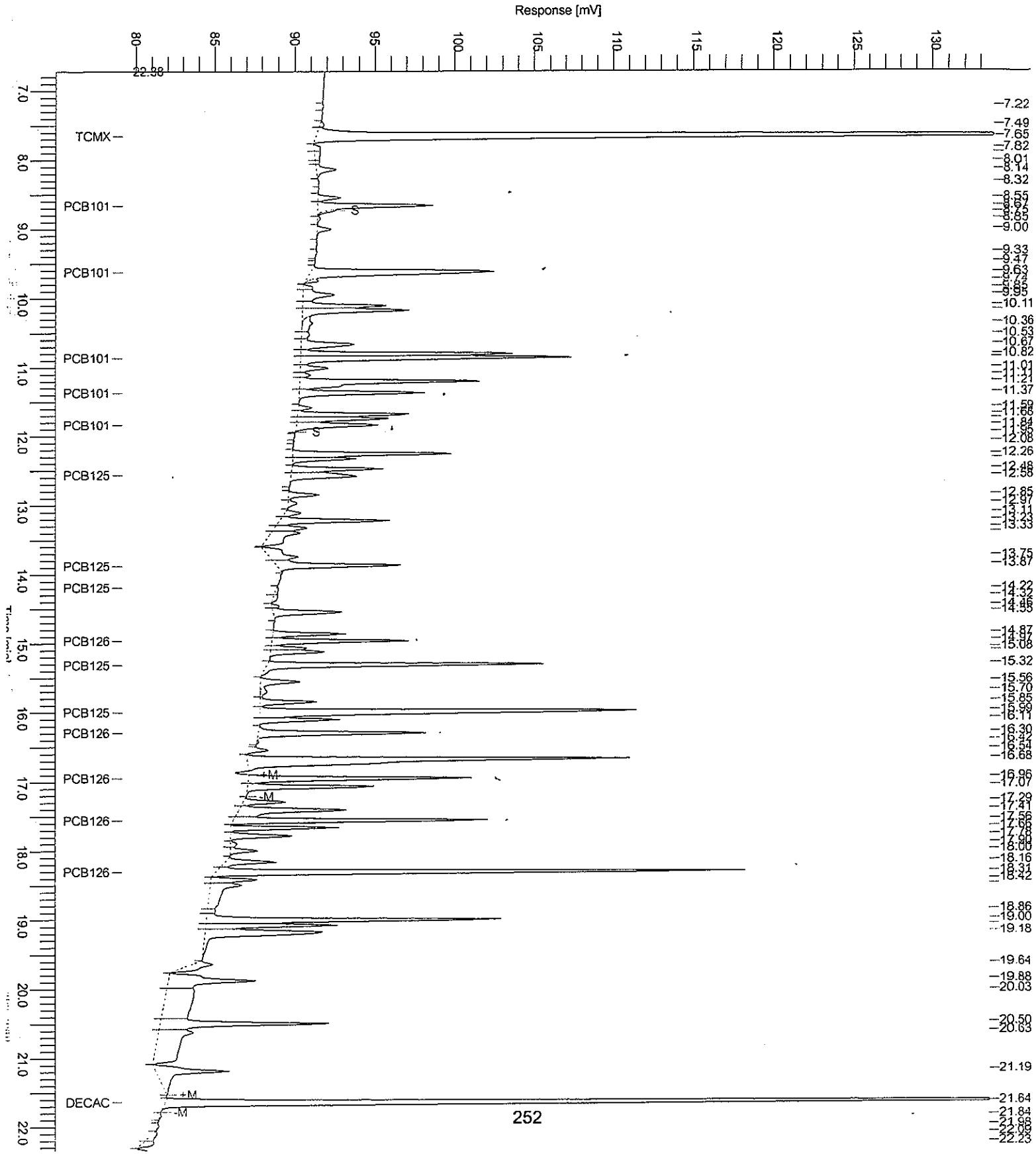
Report stored in ASCII file: G:\gc06\cha\316a011p.TX0

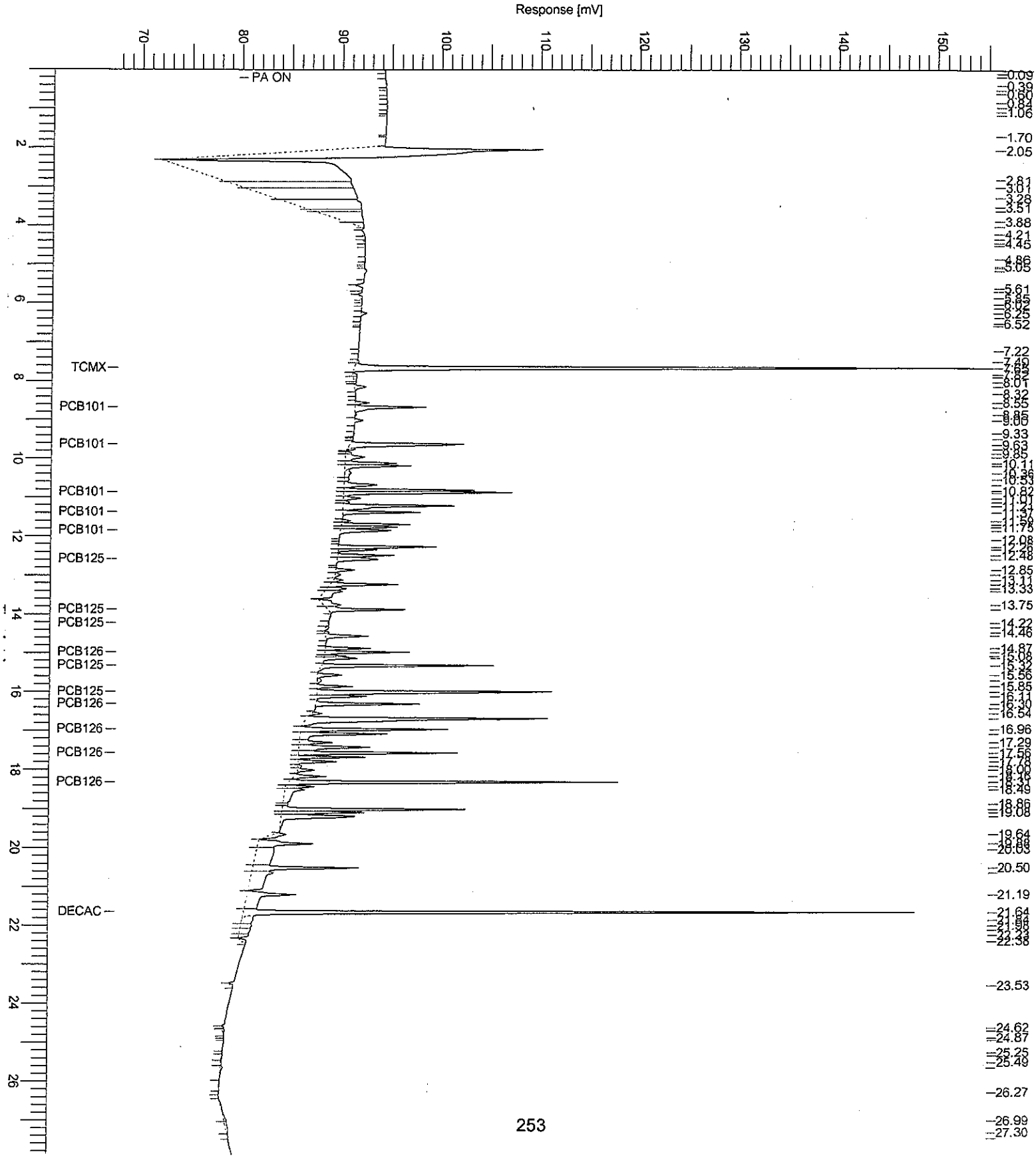
GC 06 Rtx-CLPesticides

ample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHa\316a011.raw
ate : 11/12/04 12:04:41 PM
lethod : Time of Injection: 11/11/04 9:51:26 PM
tart Time : 6.72 min End Time : 22.35 min Low Point : 79.16 mV High Point : 133.83 mV
lot Offset: 79.16 mV Plot Scale: 54.7 mV



GC 06 Rtx-CLPesticides

Sample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHa\316a011.raw
Date : 11/12/04 11:27:31 AM
Method : gc06fsa1ul Time of Injection: 11/11/04 9:51:26 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 67.70 mV High Point : 155.69 mV
Scale Factor: 1.0 Plot Offset: 67.70 mV Plot Scale: 88.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc06
Rack/Vial : 1/11
Sample Amount : 1.000000
Cycle : 11

Date : 11/12/04 12:43:14 PM
Data Acquisition Time : 11/11/04 9:51:26 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b011p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	417535.59	18.71	1.0000	1	18.71	3.74
Aroclor-1016	9.464	361843.73	87.14	1.0000	1	87.14	17.43
Aroclor-1254	14.411	16205.71	0.02	1.0000	1	0.02	0.00
Aroclor-1260	16.867	558309.91	93.54	1.0000	1	93.54	18.71
Decachlorobiphenyl	20.627	248072.50	16.43	1.0000	1	16.43	3.29
		1601967.43	215.84			215.84	43.17

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.354	45281.46	97.16	1.0000	1	97.16	19.43
PCB1016#2	8.815	63015.84	100.35	1.0000	1	100.35	20.07
PCB1016#3	9.464	160277.06	82.43	1.0000	1	82.43	16.49
PCB1016#4	9.909	38328.43	79.11	1.0000	1	79.11	15.82
PCB1016#5	10.836	54940.94	87.28	1.0000	1	87.28	17.46
		361843.73	446.34			446.34	89.27

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.411	16205.71	60.05	1.0000	1	60.05	12.01
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		16205.71	60.05			60.05	12.01

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.558	109732.87	99.08	1.0000	1	99.08	19.82
PCB1260#2	15.241	138314.53	107.77	1.0000	1	107.77	21.55
PCB1260#3	15.642	70873.85	85.00	1.0000	1	85.00	17.00
PCB1260#4	16.215	81392.81	97.68	1.0000	1	97.68	19.54
PCB1260#5	16.867	157995.84	82.70	1.0000	1	82.70	16.54
		558309.91	472.23			472.23	94.45

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Report stored in ASCII file: G:\gc06\chb\316b011p.TX0

GC 06 Rtx-5

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ate : 11/12/04 12:43:20 PM
ethod : Time of Injection: 11/11/04 9:51:26 PM
tart Time : 5.57 min End Time : 21.28 min Low Point : 98.87 mV High Point : 203.33 mV
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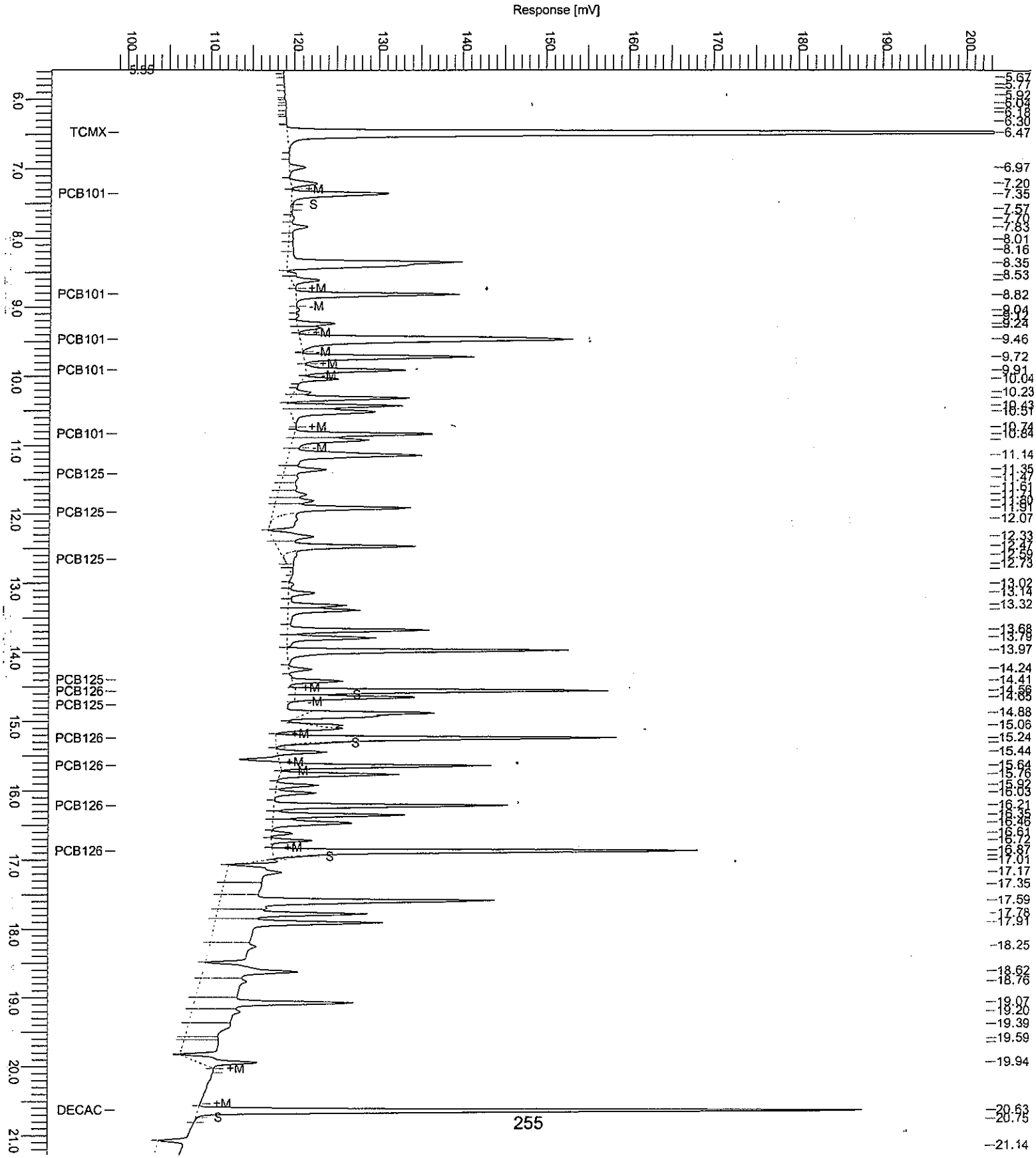
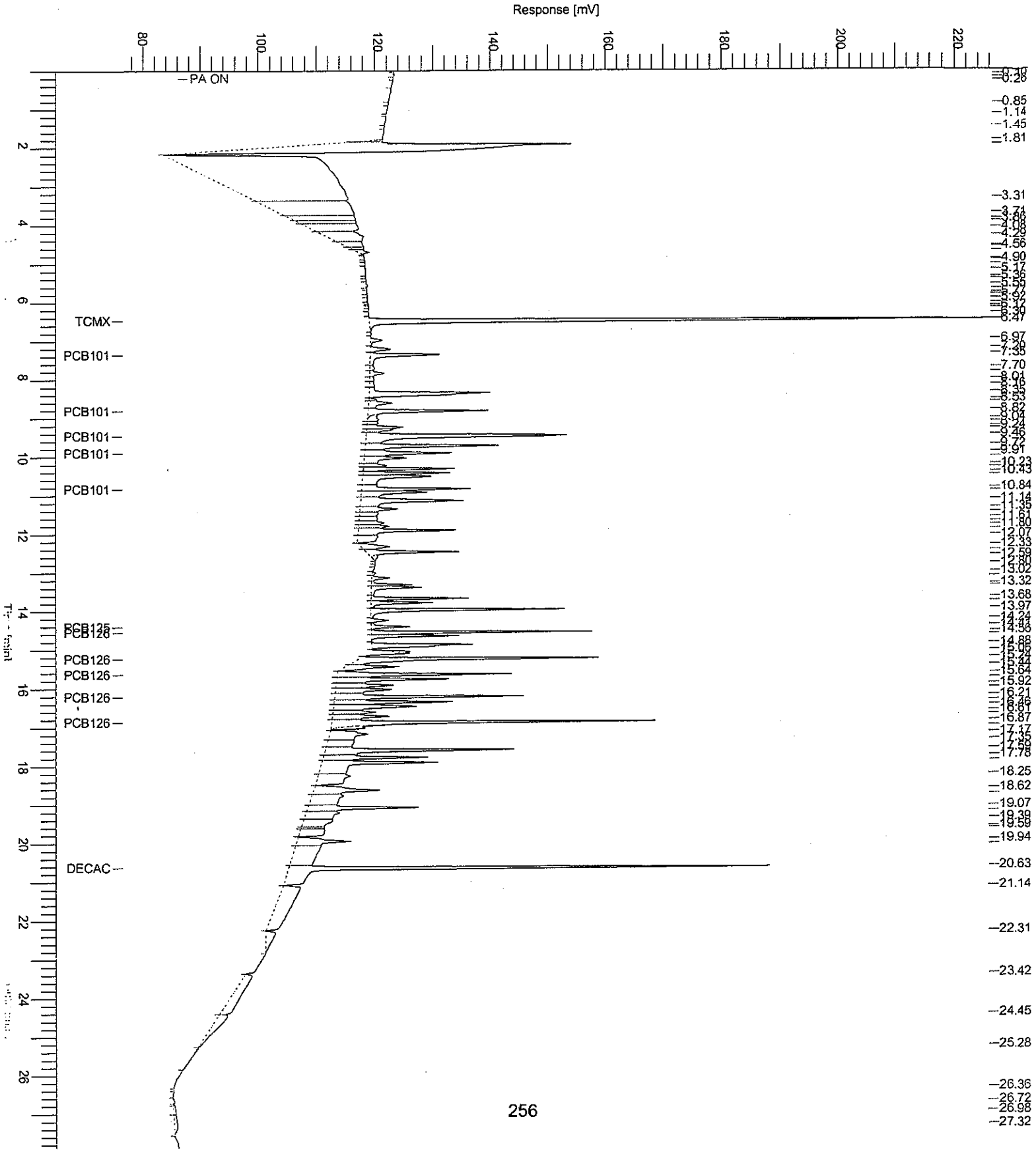


GC 06 Rtx-5

ample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHb\316b011
ate : 11/12/04 11:28:15 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 9:51:26 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 76.43 mV High Point : 226.56 mV
cale Factor: 1.0 Plot Offset: 76.43 mV Plot Scale: 150.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 11/12/04 11:35:29 AM
Data Acquisition Time : 11/11/04 10:24:39 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a012p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	489654.36	32.06	1.0000	1	32.06	6.41
Aroclor-1016	10.862	364574.32	172.86	1.0000	1	172.86	34.57
Aroclor-1254	15.991	383622.69	0.38	1.0000	1	0.38	0.08
Aroclor-1260	18.306	495264.78	101.17	1.0000	1	101.17	20.23
Decachlorobiphenyl	21.640	387840.94	31.63	1.0000	1	31.63	6.33
		2120957.09	338.11			338.11	67.62

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.664	55413.64	146.52	1.0000	1	146.52	29.30
PCB1016#2	9.626	103798.14	156.67	1.0000	1	156.67	31.33
PCB1016#3	10.862	114698.09	314.57	1.0000	1	314.57	62.91
PCB1016#4	11.371	51416.21	198.88	1.0000	1	198.88	39.78
PCB1016#5	11.839	39248.24	88.18	1.0000	1	88.18	17.64
		364574.32	904.80			904.80	180.96

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.578	39529.90	62.89	1.0000	1	62.89	12.58
PCB1254#2	13.869	53478.91	82.15	1.0000	1	82.15	16.43
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.310	114875.94	123.71	1.0000	1	123.71	24.74
PCB1254#5	15.991	175737.94	141.49	1.0000	1	141.49	28.30
		383622.69	410.24			410.24	82.05

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.965	53344.18	63.44	1.0000	1	63.44	12.69
PCB1260#2	16.298	69304.46	121.58	1.0000	1	121.58	24.32
PCB1260#3	16.952	86198.85	97.44	1.0000	1	97.44	19.49
PCB1260#4	17.559	93595.94	129.87	1.0000	1	129.87	25.97
PCB1260#5	18.306	192821.34	102.62	1.0000	1	102.62	20.52
		495264.78	514.95			514.95	102.99

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Report stored in ASCII file: G:\gc06\cha\316a012p.TX0

GC 06 Rtx-CLPesticides

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eName : G:\gc06\CHa\316a012.raw
ate : 11/12/04 11:35:34 AM
ethod :
Time of Injection: 11/11/04 10:24:39 PM
art Time : 6.43 min End Time : 22.79 min Low Point : 69.53 mV High Point : 189.35 mV
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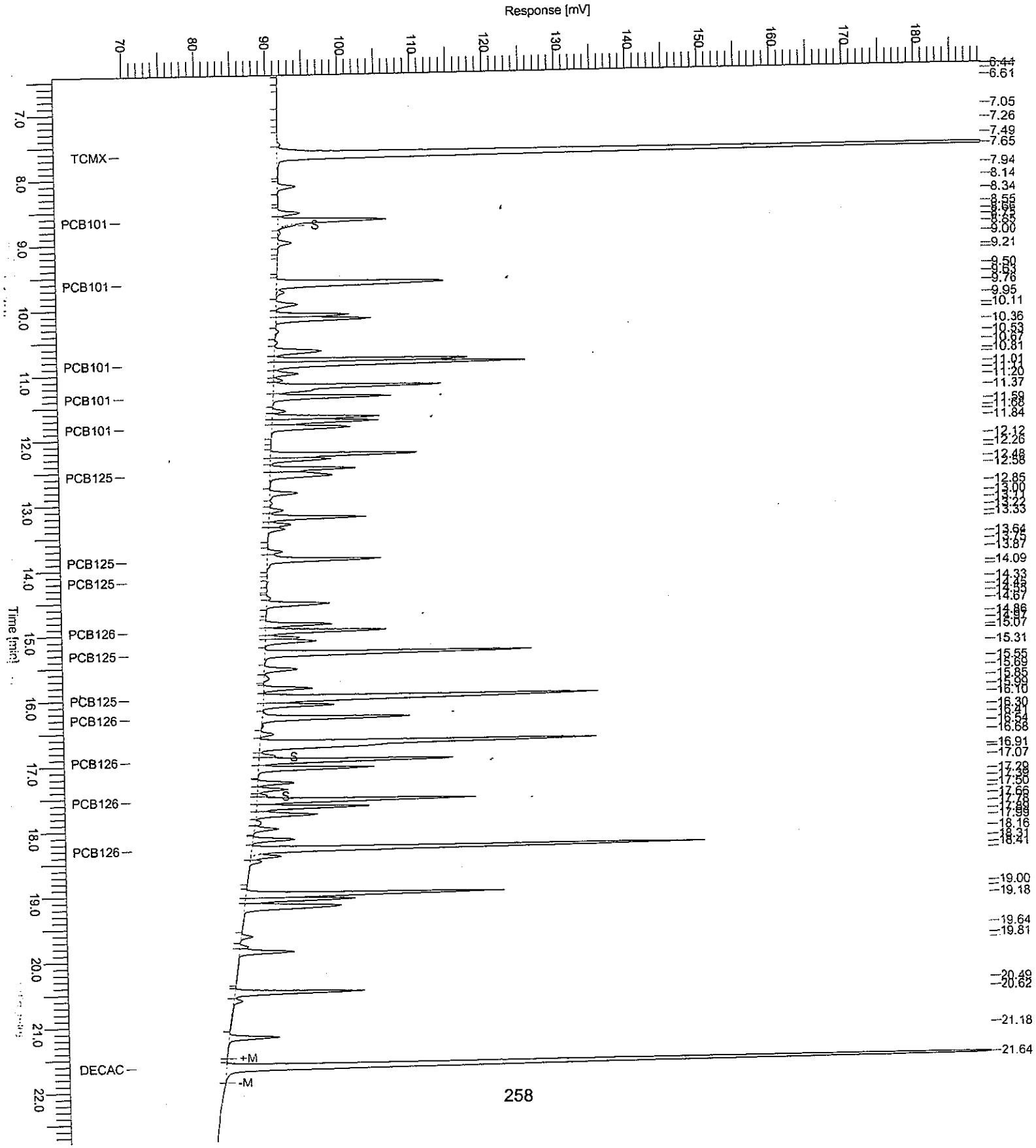
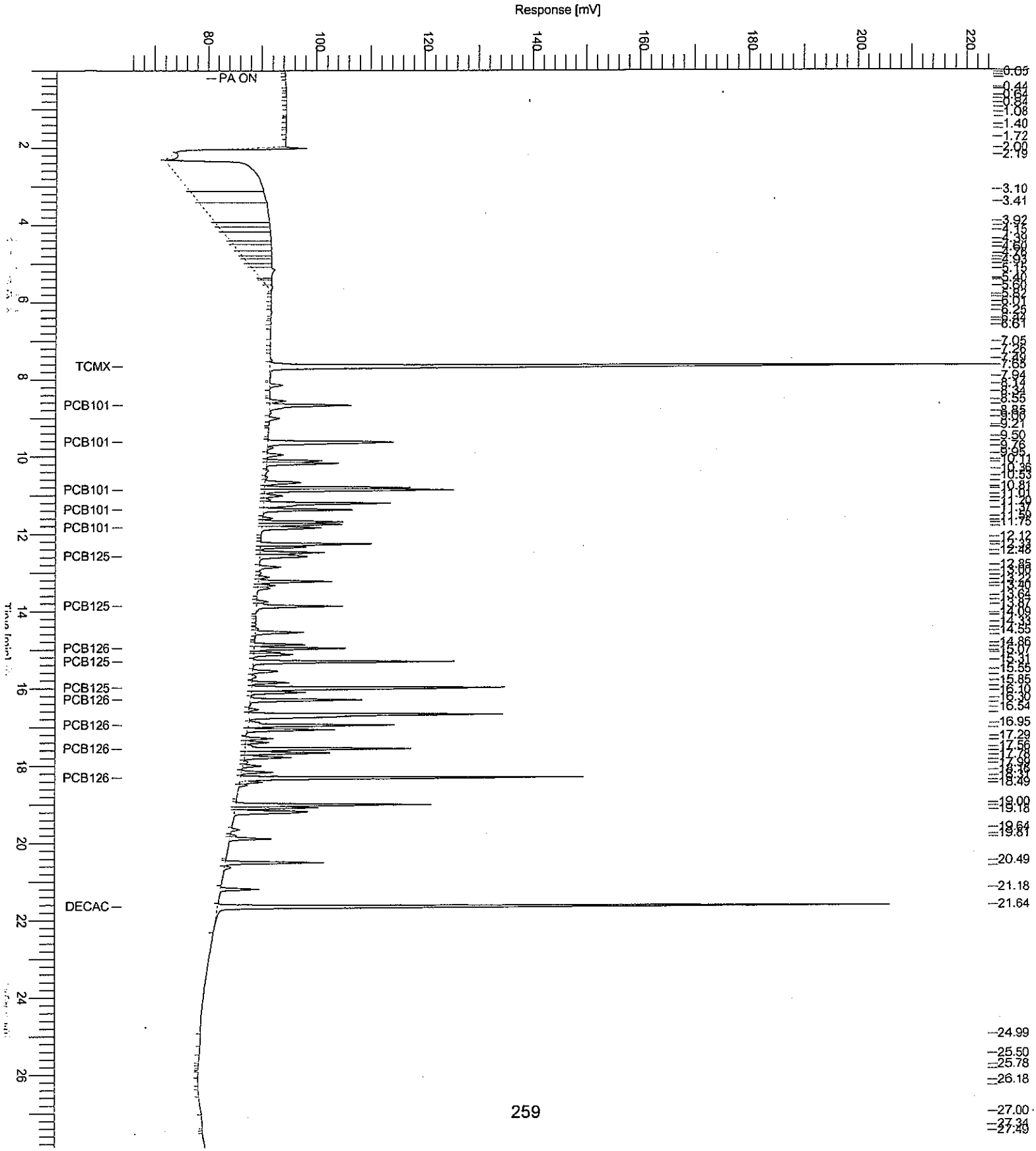


GC 06 Rtx-CLPesticides

ample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHa\316a012.raw
ate : 11/12/04 11:27:36 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 10:24:39 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 64.18 mV High Point : 224.86 mV
cale Factor: 1.0 Plot Offset: 64.18 mV Plot Scale: 160.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/12
Sample Amount : 1.000000
Cycle : 12

Date : 11/12/04 11:48:35 AM
Data Acquisition Time : 11/11/04 10:24:39 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b012p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	865412.65	38.77	1.0000	1	38.77	7.75
Aroclor-1016	9.467	815999.70	196.52	1.0000	1	196.52	39.30
Aroclor-1254	14.410	40968.22	0.04	1.0000	1	0.04	0.01
Aroclor-1260	16.867	1118362.14	187.38	1.0000	1	187.38	37.48
Decachlorobiphenyl	20.627	454140.18	30.07	1.0000	1	30.07	6.01
		3294882.88	452.78			452.78	90.56

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.354	106694.40	228.94	1.0000	1	228.94	45.79
PCB1016#2	8.815	133617.15	212.78	1.0000	1	212.78	42.56
PCB1016#3	9.467	351234.46	180.64	1.0000	1	180.64	36.13
PCB1016#4	9.908	109849.59	226.72	1.0000	1	226.72	45.34
PCB1016#5	10.833	114604.11	182.07	1.0000	1	182.07	36.41
		815999.70	1031.15			1031.15	206.23

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.410	40968.22	151.82	1.0000	1	151.82	30.36
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		40968.22	151.82			151.82	30.36

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.560	221062.46	199.61	1.0000	1	199.61	39.92
PCB1260#2	15.240	288739.04	224.97	1.0000	1	224.97	44.99
PCB1260#3	15.640	145056.98	173.96	1.0000	1	173.96	34.79
PCB1260#4	16.213	155034.61	186.06	1.0000	1	186.06	37.21
PCB1260#5	16.867	308469.04	161.47	1.0000	1	161.47	32.29
		1118362.14	946.07			946.07	189.21

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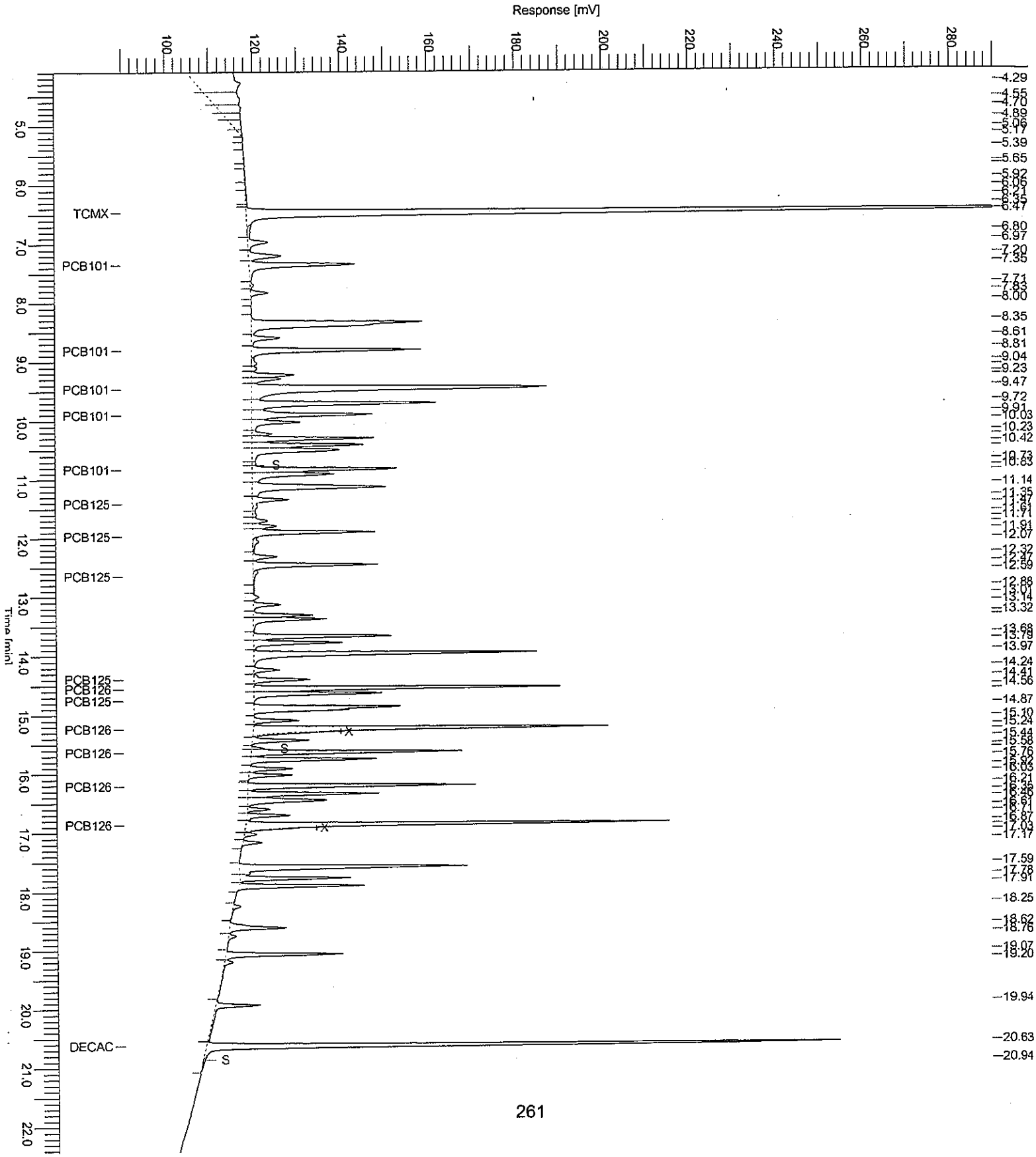
Report stored in ASCII file: G:\gc06\chb\316b012p.TX0

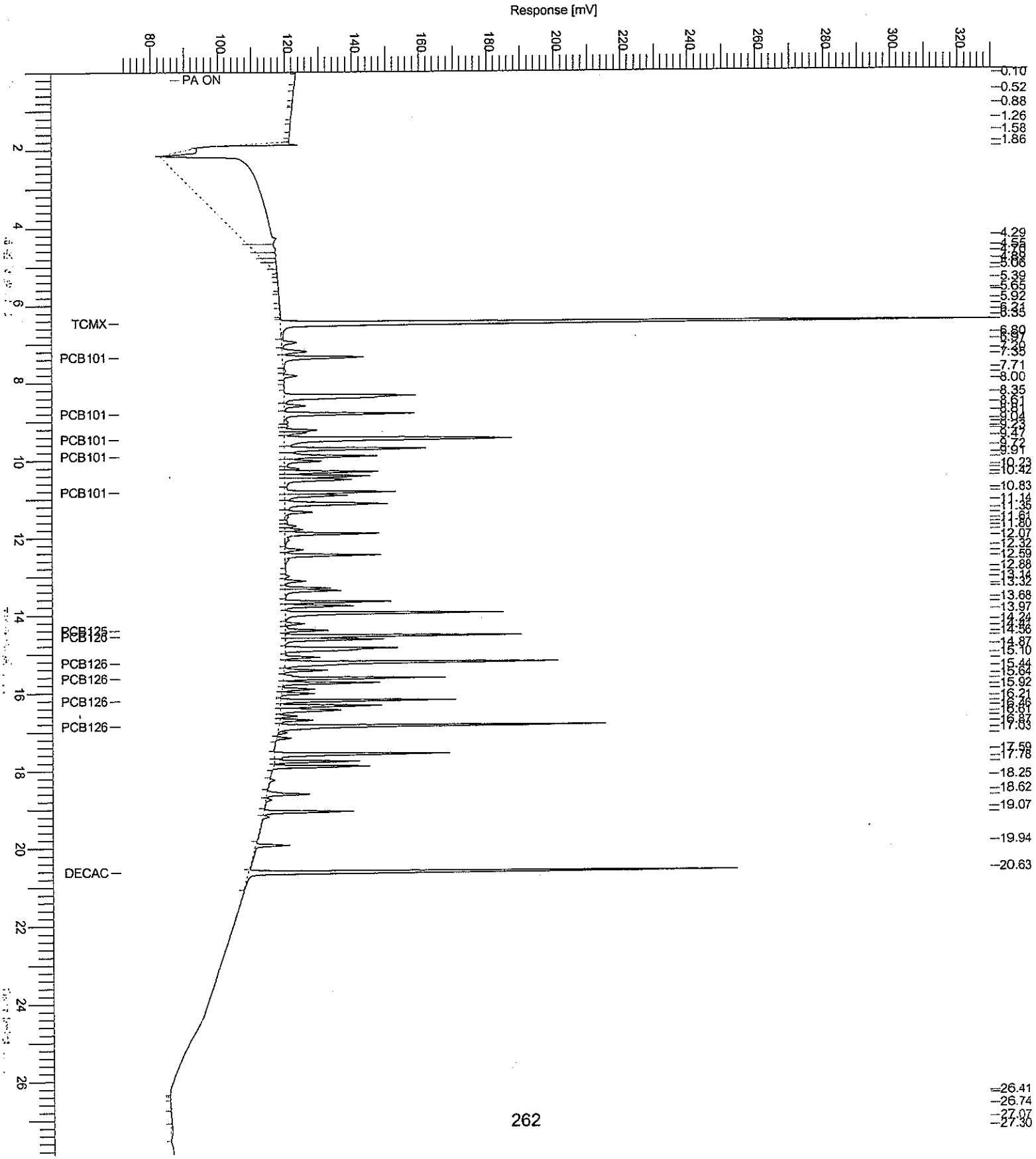
GC 06 Rtx-5

ample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\CHb\316b012.raw
ate : 11/12/04 11:48:41 AM
ethod :
Time of Injection: 11/11/04 10:24:39 PM
:art Time : 4.09 min End Time : 22.43 min Low Point : 89.86 mV High Point : 290.14 mV
ot Offset: 89.86 mV Plot Scale: 200.3 mV



GC 06 Rtx-5

ample Name : ical,04ws1789,pcb250_50 Sample #: 250ug/l Page 1 of 1
ieName : G:\gc06\CHb\316b012
ate : 11/12/04 11:28:21 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 10:24:39 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 70.39 mV High Point : 330.34 mV
cale Factor: 1.0 Plot Offset: 70.39 mV Plot Scale: 259.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1790,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 11/12/04 11:36:36 AM
Data Acquisition Time : 11/11/04 10:57:44 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a013p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	1058904.69	69.34	1.0000	1	69.34	13.87
Aroclor-1016	10.867	790353.41	374.75	1.0000	1	374.75	74.95
Aroclor-1254	15.987	827701.81	0.83	1.0000	1	0.83	0.17
Aroclor-1260	18.307	1100945.56	224.90	1.0000	1	224.90	44.98
Decachlorobiphenyl	21.640	836459.74	68.21	1.0000	1	68.21	13.64
		4614365.21	738.03			738.03	147.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.662	119683.96	316.45	1.0000	1	316.45	63.29
PCB1016#2	9.624	216827.41	327.27	1.0000	1	327.27	65.45
PCB1016#3	10.867	251248.30	689.07	1.0000	1	689.07	137.81
PCB1016#4	11.369	116446.84	450.41	1.0000	1	450.41	90.08
PCB1016#5	11.837	86146.90	193.54	1.0000	1	193.54	38.71
		790353.41	1976.74			1976.74	395.35

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.572	87788.32	139.67	1.0000	1	139.67	27.93
PCB1254#2	13.867	118306.76	181.73	1.0000	1	181.73	36.35
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.307	244235.25	263.01	1.0000	1	263.01	52.60
PCB1254#5	15.987	377371.49	303.83	1.0000	1	303.83	60.77
		827701.81	888.25			888.25	177.65

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.963	116893.53	139.01	1.0000	1	139.01	27.80
PCB1260#2	16.296	156529.81	274.61	1.0000	1	274.61	54.92
PCB1260#3	16.949	188698.76	213.31	1.0000	1	213.31	42.66
PCB1260#4	17.557	209009.75	290.01	1.0000	1	290.01	58.00
PCB1260#5	18.307	429813.71	228.74	1.0000	1	228.74	45.75
		1100945.56	1145.68			1145.68	229.14

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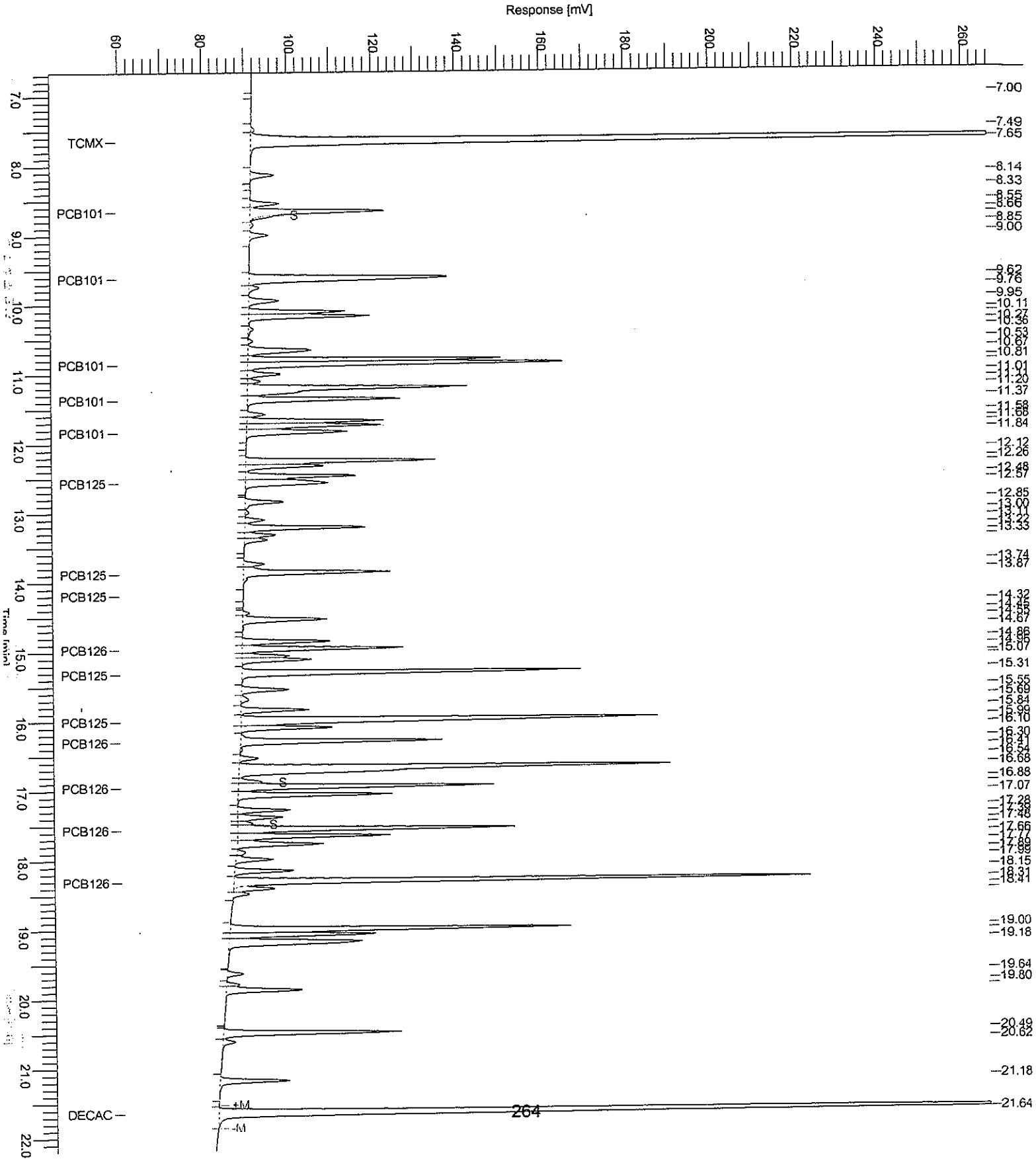
Report stored in ASCII file: G:\gc06\cha\316a013p.TX0

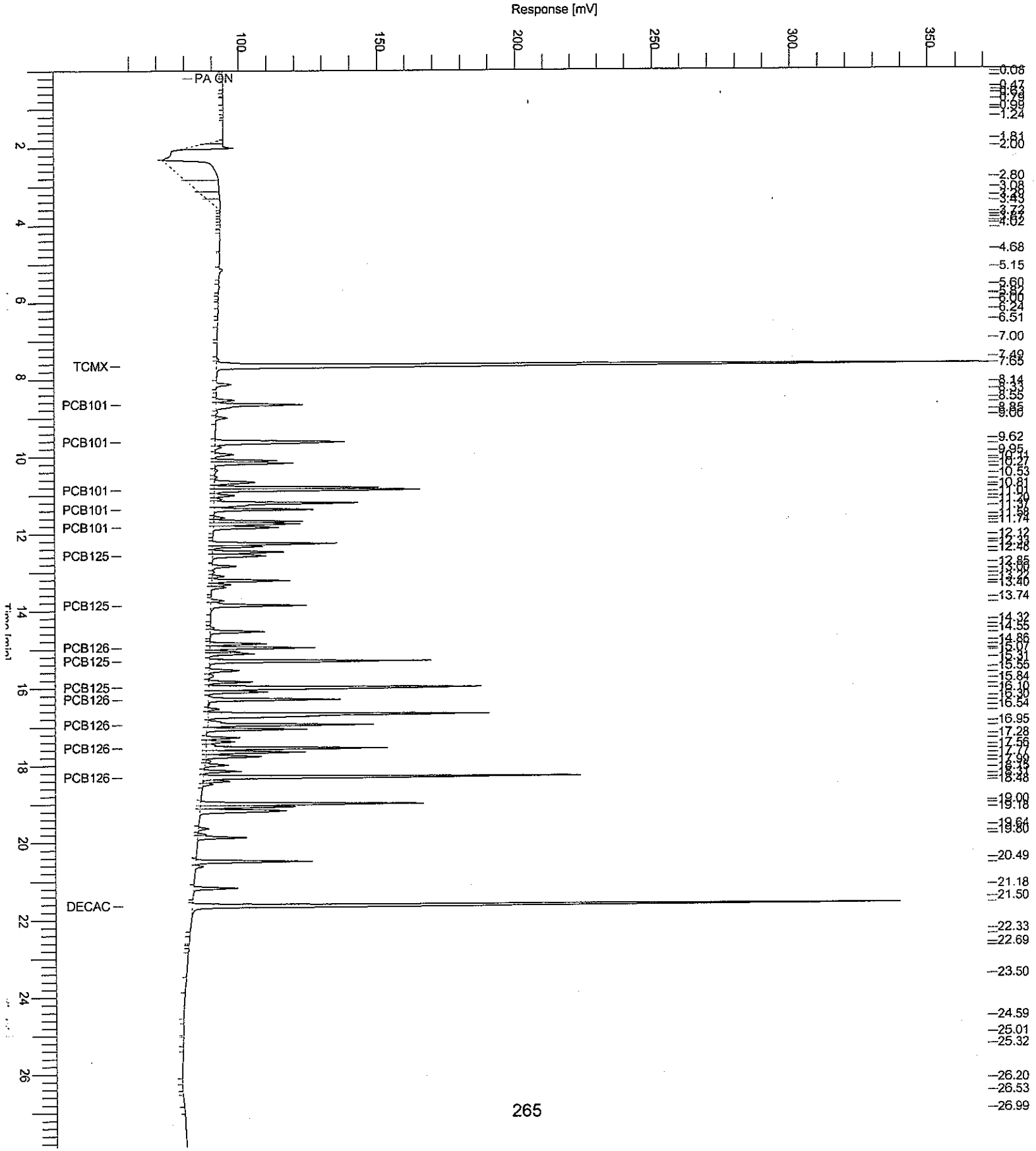
GC 06 Rtx-CLPesticides

ımple Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\316a013.raw
ıte : 11/12/04 11:36:41 AM
ethod :
Time of Injection: 11/11/04 10:57:44 PM
art Time : 6.67 min End Time : 22.20 min Low Point : 59.55 mV High Point : 266.28 mV
ot Offset: 59.55 mV Plot Scale: 206.7 mV



GC 06 Rtx-CLPesticides

ample Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\CHa\316a013.raw
ate : 11/12/04 11:27:42 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 10:57:44 PM
lart Time : 0.00 min End Time : 27.88 min Low Point : 56.83 mV High Point : 372.68 mV
cale Factor: 1.0 Plot Offset: 56.83 mV Plot Scale: 315.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1790,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/13
Sample Amount : 1.000000
Cycle : 13

Date : 11/12/04 11:49:29 AM
Data Acquisition Time : 11/11/04 10:57:44 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b013p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	1756542.62	78.70	1.0000	1	78.70	15.74
Aroclor-1016	9.467	1655422.24	398.67	1.0000	1	398.67	79.73
Aroclor-1254	14.406	89284.35	0.09	1.0000	1	0.09	0.02
Aroclor-1260	16.867	2346688.94	393.18	1.0000	1	393.18	78.64
Decachlorobiphenyl	20.627	942227.25	62.39	1.0000	1	62.39	12.48
		6790165.41	933.03			933.03	186.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.347	209246.24	448.99	1.0000	1	448.99	89.80
PCB1016#2	8.813	266742.73	424.77	1.0000	1	424.77	84.95
PCB1016#3	9.467	714949.37	367.70	1.0000	1	367.70	73.54
PCB1016#4	9.907	229947.63	474.60	1.0000	1	474.60	94.92
PCB1016#5	10.827	234536.26	372.61	1.0000	1	372.61	74.52
		1655422.24	2088.67			2088.67	417.73

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.406	89284.35	330.87	1.0000	1	330.87	66.17
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		89284.35	330.87			330.87	66.17

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	452676.06	408.74	1.0000	1	408.74	81.75
PCB1260#2	15.240	608979.93	474.48	1.0000	1	474.48	94.90
PCB1260#3	15.640	300194.68	360.02	1.0000	1	360.02	72.00
PCB1260#4	16.213	328797.96	394.60	1.0000	1	394.60	78.92
PCB1260#5	16.867	656040.32	343.40	1.0000	1	343.40	68.68
		2346688.94	1981.25			1981.25	396.25

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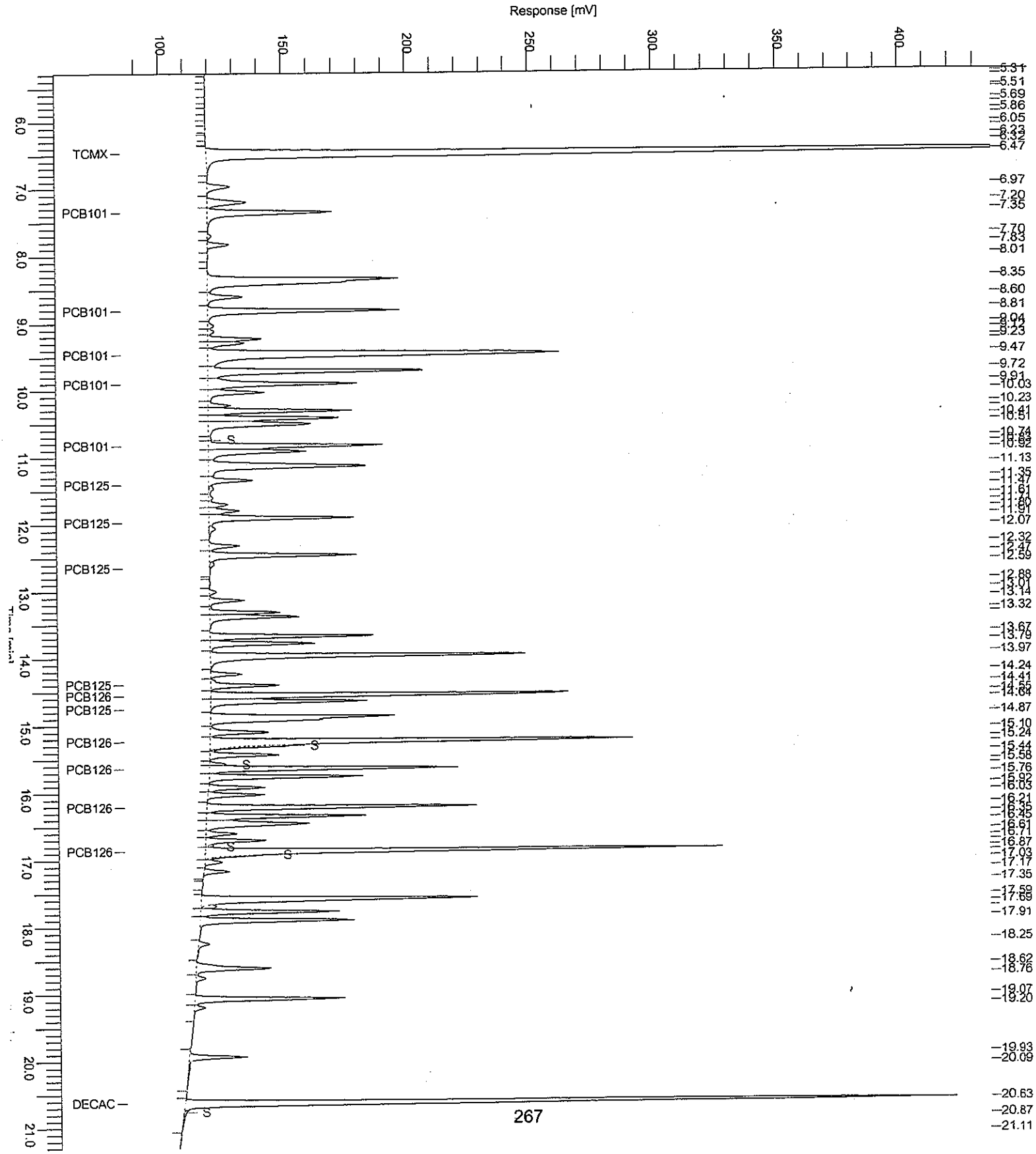
Report stored in ASCII file: G:\gc06\chb\316b013p.TX0

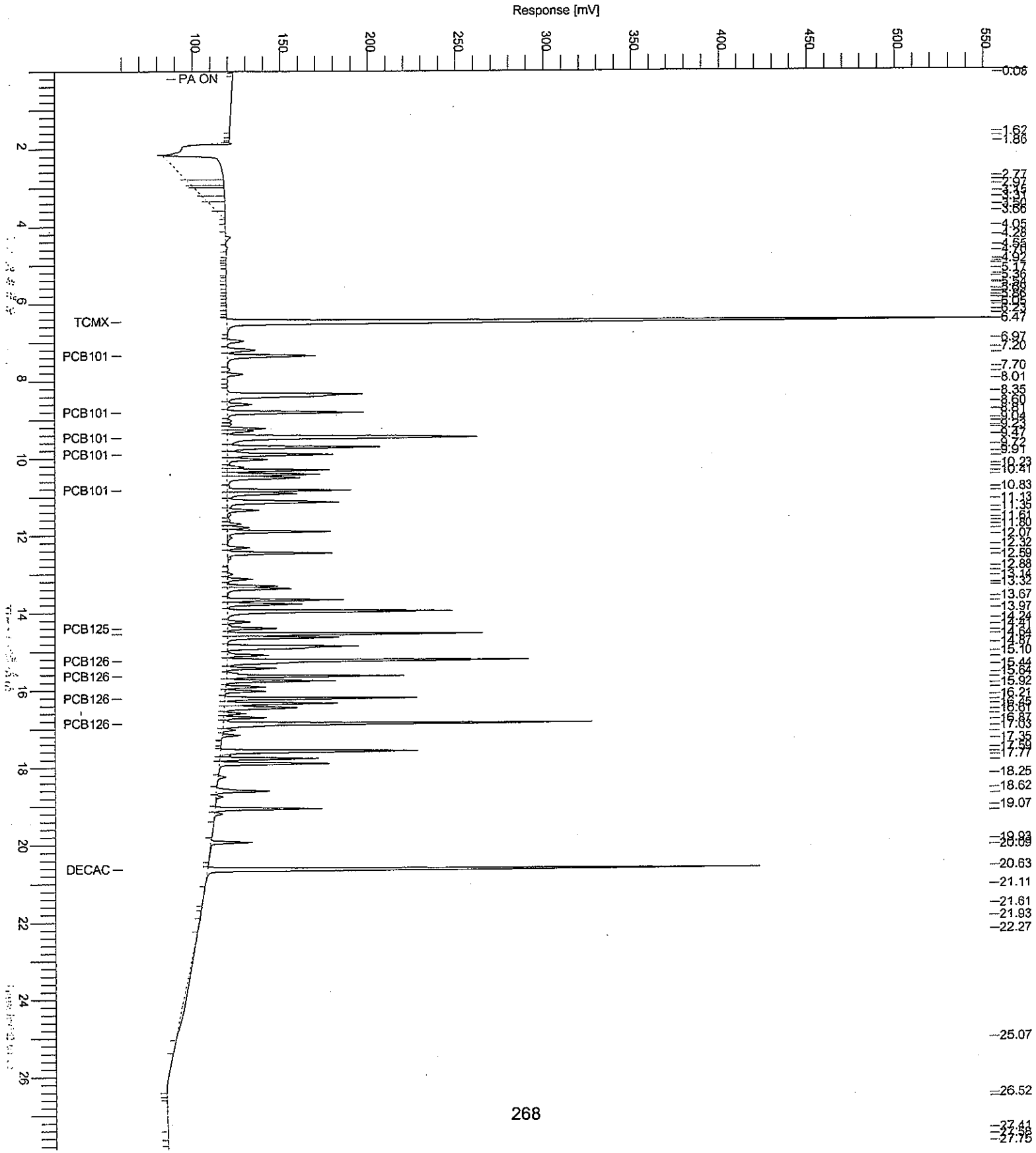
GC 06 Rtx-5

mple Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\316b013.raw
te : 11/12/04 11:49:34 AM
thod : Time of Injection: 11/11/04 10:57:44 PM
art Time : 5.28 min End Time : 21.31 min Low Point : 84.55 mV High Point : 437.75 mV
t Offset: 84.55 mV Plot Scale: 353.2 mV



GC 06 Rtx-5

ample Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHb\316b013
ate : 11/12/04 11:28:26 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 10:57:44 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 59.76 mV High Point : 555.45 mV
cale Factor: 1.0 Plot Offset: 59.76 mV Plot Scale: 495.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/12/04 11:37:17 AM
Data Acquisition Time : 11/11/04 11:30:57 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a014p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	1597577.72	104.62	1.0000	1	104.62	20.92
Aroclor-1016	10.853	1176192.11	557.70	1.0000	1	557.70	111.54
Aroclor-1254	15.987	1174422.40	1.17	1.0000	1	1.17	0.23
Aroclor-1260	18.307	1541927.23	314.98	1.0000	1	314.98	63.00
Decachlorobiphenyl	21.640	1100187.29	89.72	1.0000	1	89.72	17.94
		6590306.76	1068.19			1068.19	213.64

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.660	180885.32	478.27	1.0000	1	478.27	95.65
PCB1016#2	9.613	321143.91	484.72	1.0000	1	484.72	96.94
PCB1016#3	10.853	371615.50	1019.19	1.0000	1	1019.19	203.84
PCB1016#4	11.369	173718.76	671.94	1.0000	1	671.94	134.39
PCB1016#5	11.837	128828.61	289.43	1.0000	1	289.43	57.89
		1176192.11	2943.54			2943.54	588.71

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.571	130982.53	208.39	1.0000	1	208.39	41.68
PCB1254#2	13.867	167949.08	257.99	1.0000	1	257.99	51.60
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.307	347958.52	374.71	1.0000	1	374.71	74.94
PCB1254#5	15.987	527532.28	424.73	1.0000	1	424.73	84.95
		1174422.40	1265.82			1265.82	253.16

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.963	168610.19	200.52	1.0000	1	200.52	40.10
PCB1260#2	16.296	226397.08	397.18	1.0000	1	397.18	79.44
PCB1260#3	16.947	263280.73	297.62	1.0000	1	297.62	59.52
PCB1260#4	17.560	291742.67	404.81	1.0000	1	404.81	80.96
PCB1260#5	18.307	591896.56	315.00	1.0000	1	315.00	63.00
		1541927.23	1615.12			1615.12	323.02

11/12/04

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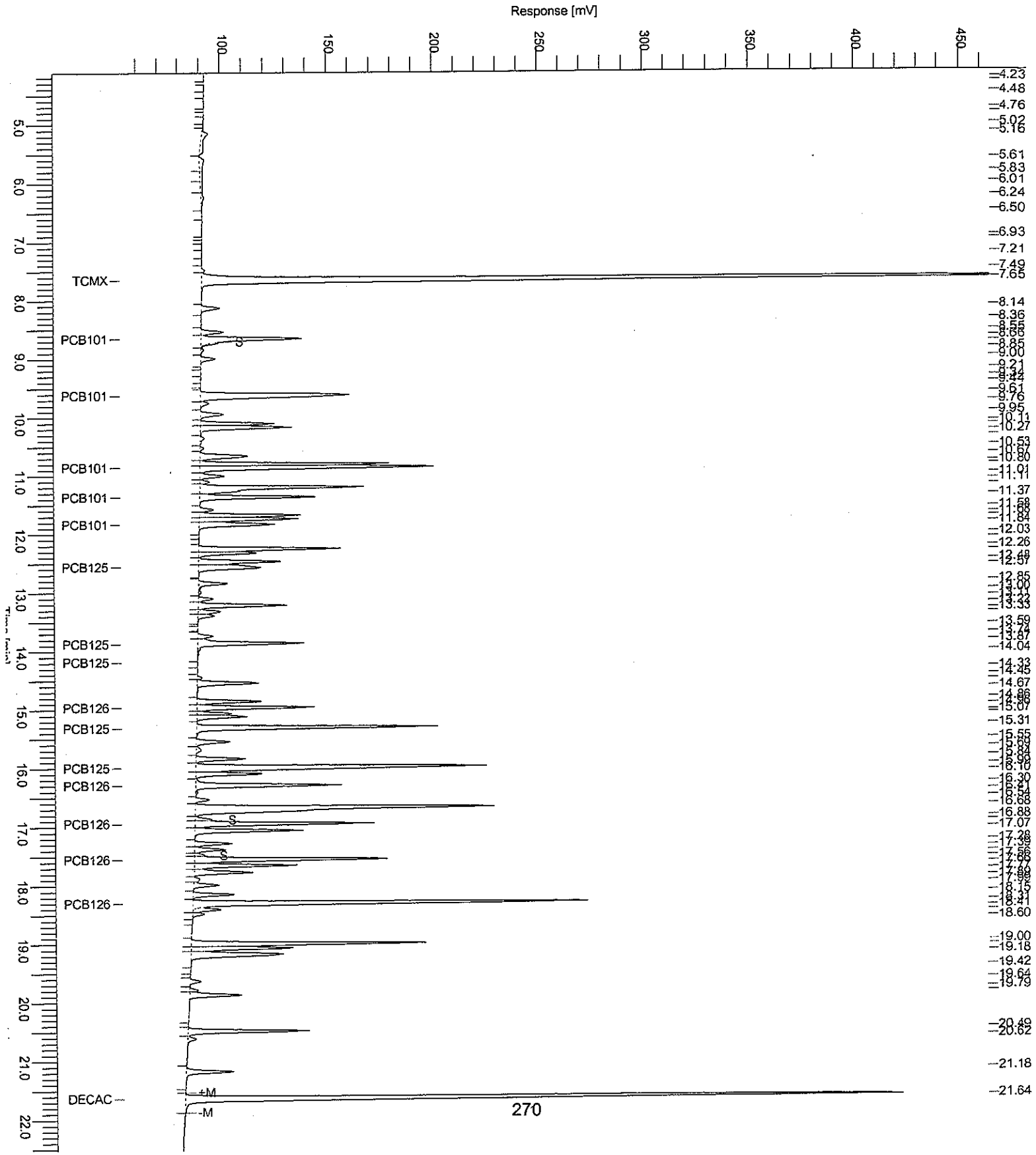
Report stored in ASCII file: G:\gc06\cha\316a014p.TX0

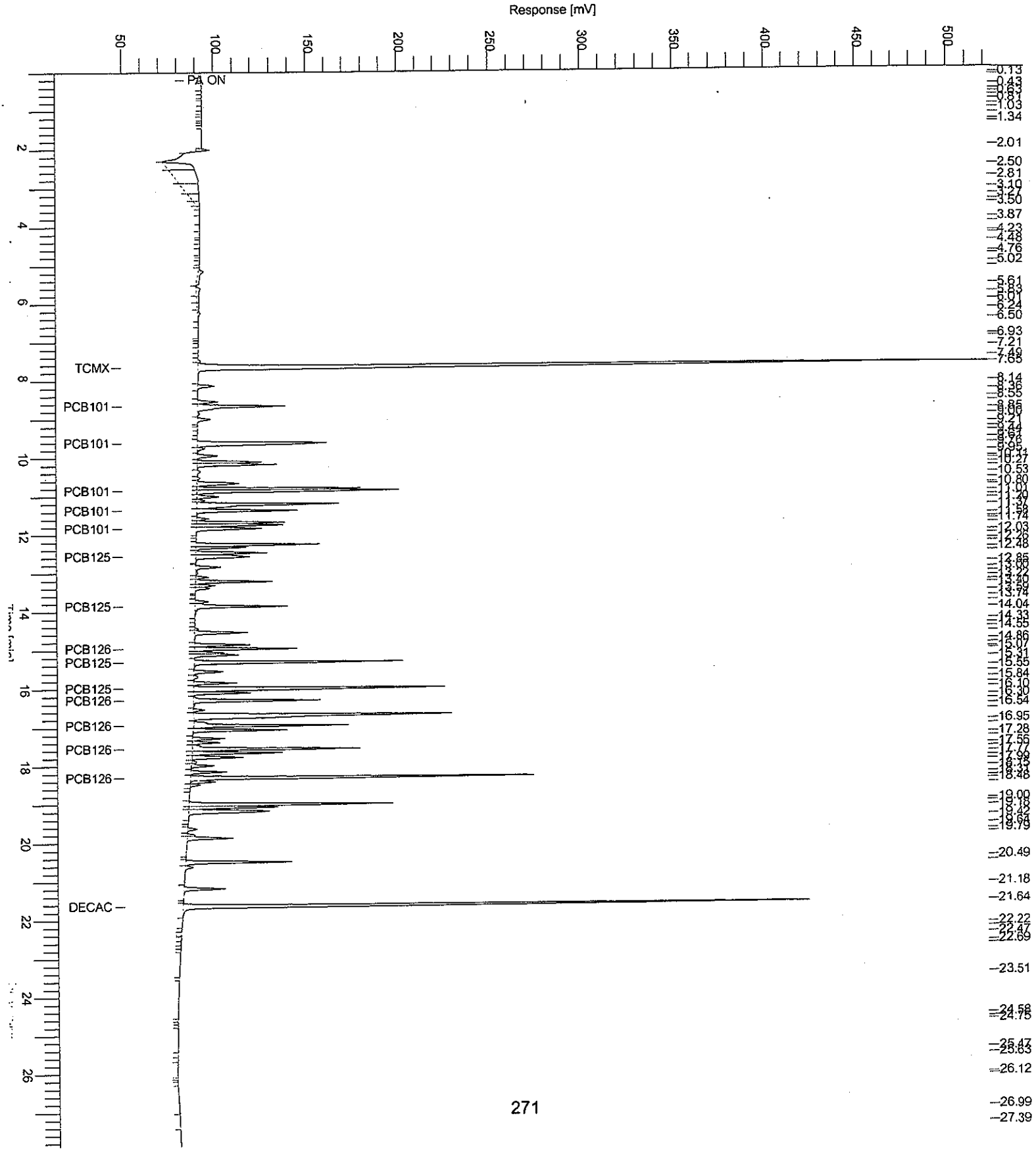
GC 06 Rtx-CLPesticides

ample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\316a014.raw
ate : 11/12/04 11:37:22 AM
ethod : Time of Injection: 11/11/04 11:30:57 PM
art Time : 4.12 min End Time : 22.53 min Low Point : 52.22 mV High Point : 465.25 mV
ot Offset: 52.22 mV Plot Scale: 413.0 mV



GC 06 Rtx-CLPesticides

ample Name : ical,04ws1791,pcb750_150 . Sample #: 250ug/l
leName : G:\gc06\CHa\316a014.raw
ate : 11/12/04 11:27:48 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 11:30:57 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 49.49 mV High Point : 522.71 mV
cale Factor: 1.0 Plot Offset: 49.49 mV Plot Scale: 473.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc06
Rack/Vial : 1/14
Sample Amount : 1.000000
Cycle : 14

Date : 11/12/04 11:50:26 AM
Data Acquisition Time : 11/11/04 11:30:57 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b014p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	2585454.41	115.84	1.0000	1	115.84	23.17
Aroclor-1016	9.467	2441838.47	588.06	1.0000	1	588.06	117.61
Aroclor-1254	14.400	128803.61	0.13	1.0000	1	0.13	0.03
Aroclor-1260	16.867	3178609.72	532.57	1.0000	1	532.57	106.51
Decachlorobiphenyl	20.627	1238324.01	82.00	1.0000	1	82.00	16.40
		9573030.21	1318.60			1318.60	263.72

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.347	320567.07	687.86	1.0000	1	687.86	137.57
PCB1016#2	8.813	395517.18	629.84	1.0000	1	629.84	125.97
PCB1016#3	9.467	1043320.26	536.58	1.0000	1	536.58	107.32
PCB1016#4	9.907	341650.43	705.14	1.0000	1	705.14	141.03
PCB1016#5	10.827	340783.52	541.40	1.0000	1	541.40	108.28
		2441838.47	3100.83			3100.83	620.17

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.400	128803.61	477.31	1.0000	1	477.31	95.46
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		128803.61	477.31			477.31	95.46

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	623720.92	563.19	1.0000	1	563.19	112.64
PCB1260#2	15.240	810471.14	631.47	1.0000	1	631.47	126.29
PCB1260#3	15.640	407718.04	488.97	1.0000	1	488.97	97.79
PCB1260#4	16.213	448339.95	538.07	1.0000	1	538.07	107.61
PCB1260#5	16.867	888359.67	465.01	1.0000	1	465.01	93.00
		3178609.72	2686.71			2686.71	537.34

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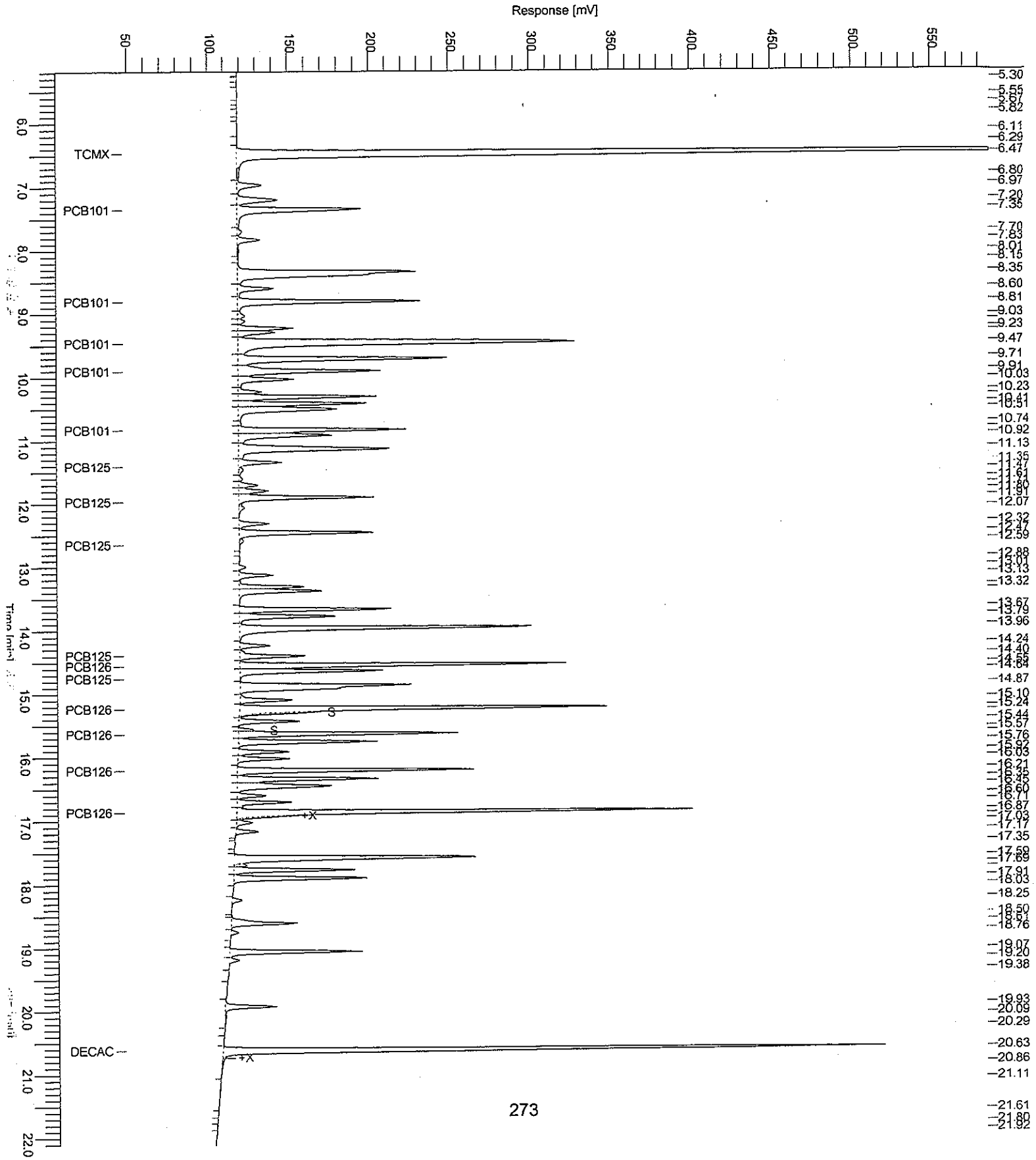
Report stored in ASCII file: G:\gc06\chb\316b014p.TX0

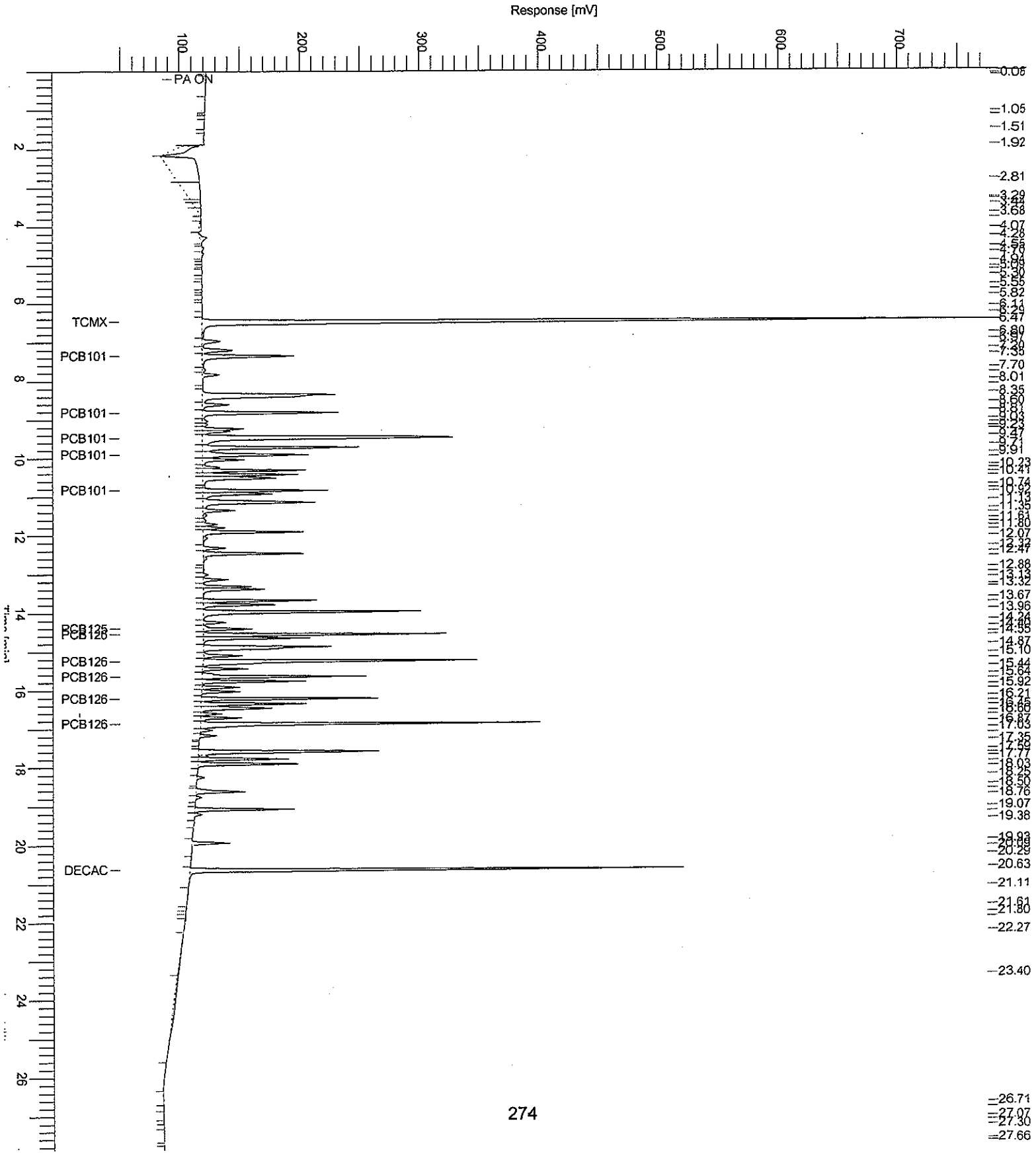
GC 06 Rtx-5

ample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHb\316b014.raw
ate : 11/12/04 11:50:31 AM
ethod : Time of Injection: 11/11/04 11:30:57 PM
tart Time : 5.19 min End Time : 22.12 min Low Point : 47.28 mV High Point : 587.05 mV
lot Offset: 47.28 mV Plot Scale: 539.8 mV



GC 06 Rtx-5

ample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\CHb\316b014
ate : 11/12/04 11:28:32 AM
ethod : gc06fsa1ul Time of Injection: 11/11/04 11:30:57 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 49.11 mV High Point : 778.57 mV
cale Factor: 1.0 Plot Offset: 49.11 mV Plot Scale: 729.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,pcb1k_200
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/12/04 11:39:36 AM
Data Acquisition Time : 11/12/04 12:04:16 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a015p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	2000763.06	131.02	1.0000	1	131.02	26.20
Aroclor-1016	10.853	1464796.77	694.54	1.0000	1	694.54	138.91
Aroclor-1254	15.987	1486181.15	1.49	1.0000	1	1.49	0.30
Aroclor-1260	18.307	1970280.91	402.49	1.0000	1	402.49	80.50
Decachlorobiphenyl	21.640	1415265.08	115.42	1.0000	1	115.42	23.08
		8337286.97	1344.95			1344.95	268.99

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.659	224281.06	593.01	1.0000	1	593.01	118.60
PCB1016#2	9.613	393826.68	594.42	1.0000	1	594.42	118.88
PCB1016#3	10.853	465894.44	1277.76	1.0000	1	1277.76	255.55
PCB1016#4	11.366	220301.44	852.12	1.0000	1	852.12	170.42
PCB1016#5	11.837	160493.14	360.57	1.0000	1	360.57	72.11
		1464796.77	3677.87			3677.87	735.57

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.571	169885.20	270.28	1.0000	1	270.28	54.06
PCB1254#2	13.866	219074.32	336.52	1.0000	1	336.52	67.30
PCB1254#3	14.193	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	15.307	433673.75	467.02	1.0000	1	467.02	93.40
PCB1254#5	15.987	663547.88	534.24	1.0000	1	534.24	106.85
		1486181.15	1608.06			1608.06	321.61

11/12/04

Group Report For : Aroclor-1260

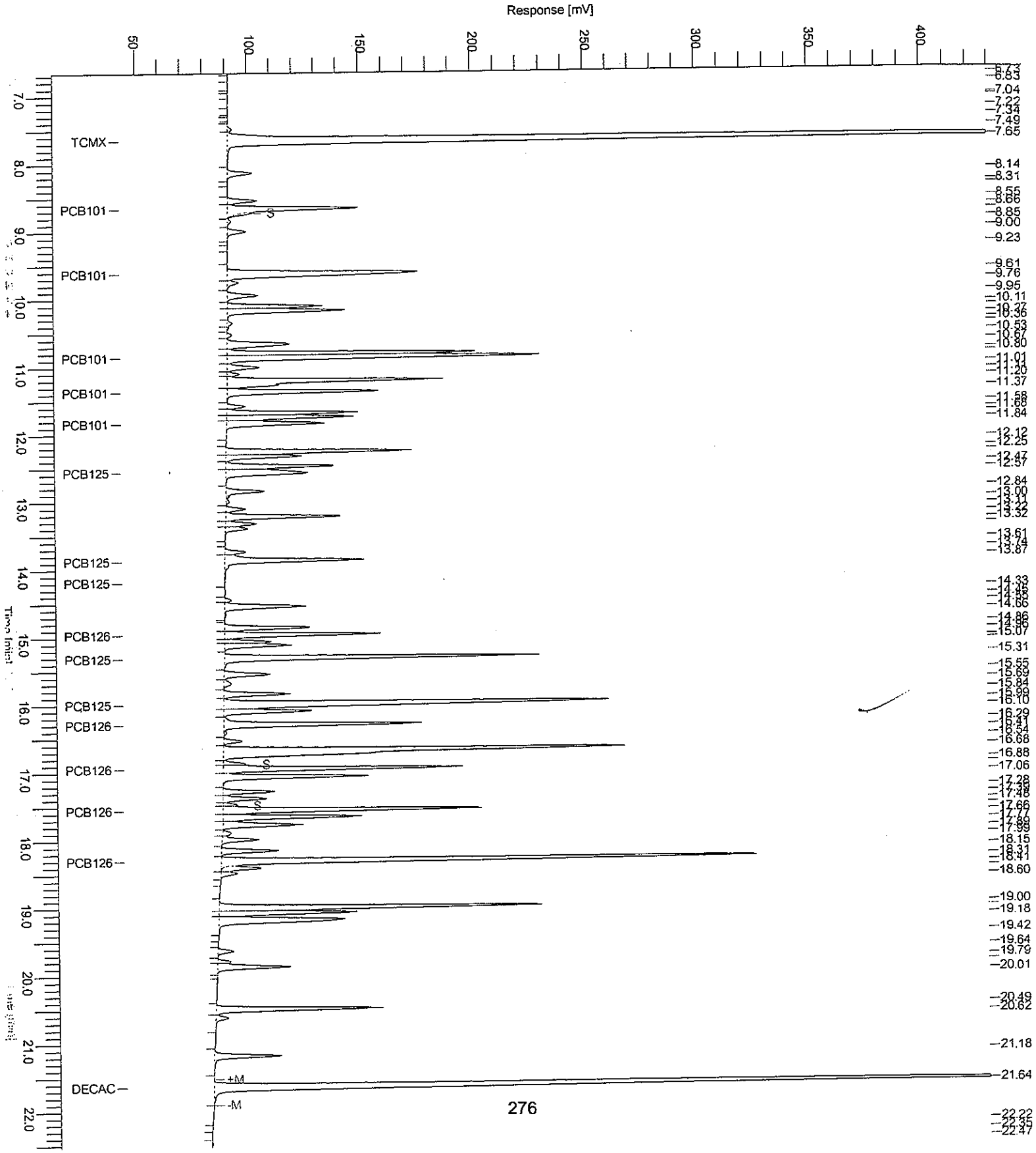
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.962	212272.76	252.44	1.0000	1	252.44	50.49
PCB1260#2	16.293	290132.94	509.00	1.0000	1	509.00	101.80
PCB1260#3	16.947	334249.52	377.84	1.0000	1	377.84	75.57
PCB1260#4	17.560	373663.89	518.48	1.0000	1	518.48	103.70
PCB1260#5	18.307	759961.80	404.44	1.0000	1	404.44	80.89
		1970280.91	2062.20			2062.20	412.44

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\316a015p.TX0

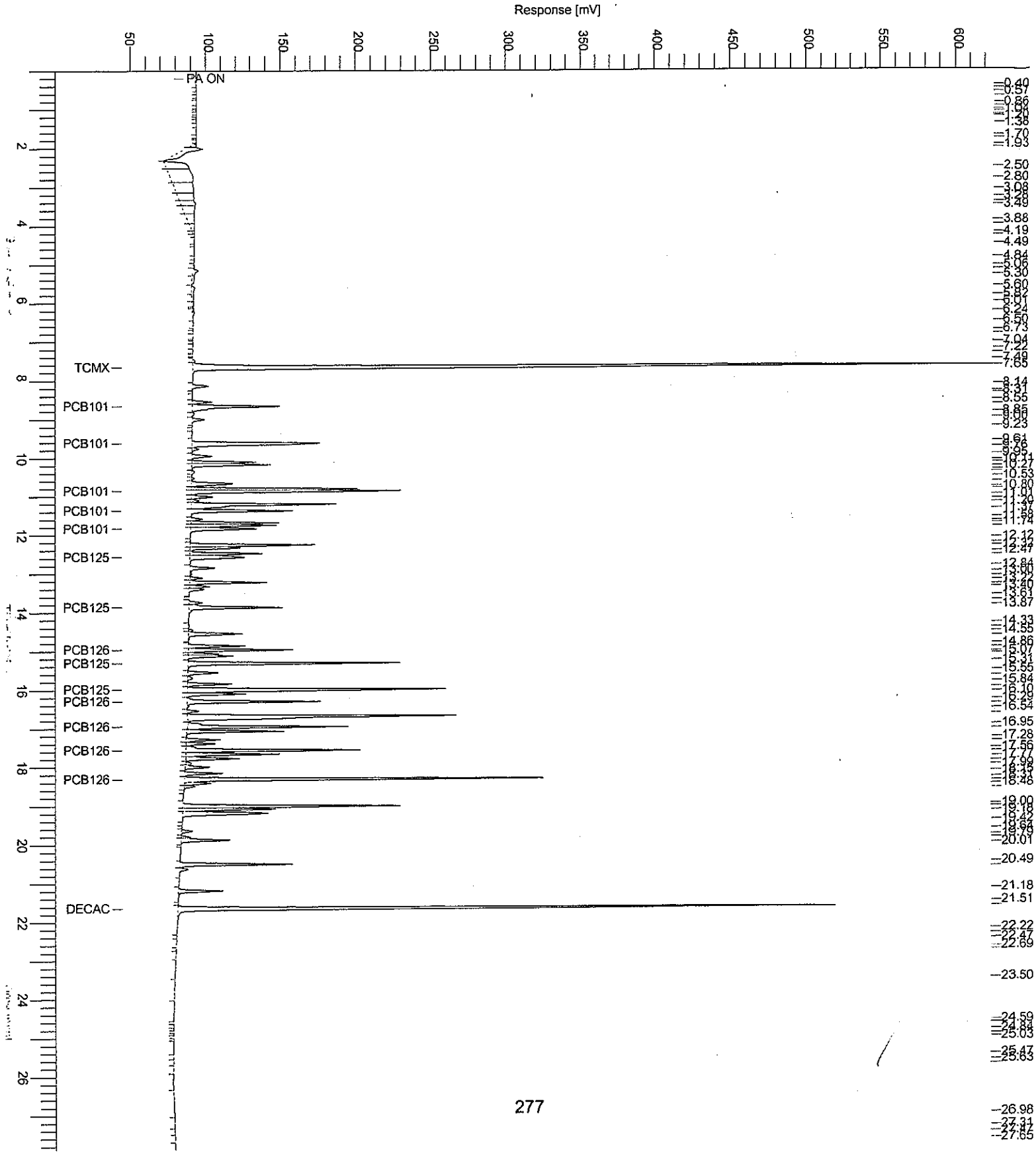
GC 06 Rtx-CLPesticides

ımple Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\316a015.raw
ıte : 11/12/04 11:38:03 AM
ethod :
Time of Injection: 11/12/04 12:04:16 AM
art Time : 6.67 min End Time : 22.53 min Low Point : 42.92 mV High Point : 430.00 mV
ot Offset: 42.92 mV Plot Scale: 387.1 mV



GC 06 Rtx-CLPesticides

ample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHa\316a015.raw
ate : 11/12/04 11:27:59 AM
'ethod : gc06fsa1ul Time of Injection: 11/12/04 12:04:16 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 44.37 mV High Point : 625.91 mV
cale Factor: 1.0 Plot Offset: 44.37 mV Plot Scale: 581.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,pcb1k_200
Instrument Name : gc06
Rack/Vial : 1/15
Sample Amount : 1.000000
Cycle : 15

Date : 11/12/04 11:52:05 AM
Data Acquisition Time : 11/12/04 12:04:16 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b015p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	3182766.70	142.60	1.0000	1	142.60	28.52
Aroclor-1016	9.467	2971760.27	715.68	1.0000	1	715.68	143.14
Aroclor-1254	14.400	188592.19	0.19	1.0000	1	0.19	0.04
Aroclor-1260	16.867	4152451.27	695.74	1.0000	1	695.74	139.15
Decachlorobiphenyl	20.627	1590011.58	105.28	1.0000	1	105.28	21.06
		12085582.01	1659.49			1659.49	331.90

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.347	380135.03	815.68	1.0000	1	815.68	163.14
PCB1016#2	8.813	472919.78	753.10	1.0000	1	753.10	150.62
PCB1016#3	9.467	1277925.05	657.24	1.0000	1	657.24	131.45
PCB1016#4	9.907	423281.08	873.62	1.0000	1	873.62	174.72
PCB1016#5	10.827	417499.33	663.28	1.0000	1	663.28	132.66
		2971760.27	3762.92			3762.92	752.58

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.413	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.653	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.400	188592.19	698.88	1.0000	1	698.88	139.78
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		188592.19	698.88			698.88	139.78

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	797697.07	720.28	1.0000	1	720.28	144.06
PCB1260#2	15.240	1062506.99	827.84	1.0000	1	827.84	165.57
PCB1260#3	15.640	536022.82	642.84	1.0000	1	642.84	128.57
PCB1260#4	16.213	597963.88	717.64	1.0000	1	717.64	143.53
PCB1260#5	16.867	1158260.50	606.29	1.0000	1	606.29	121.26
		4152451.27	3514.89			3514.89	702.98

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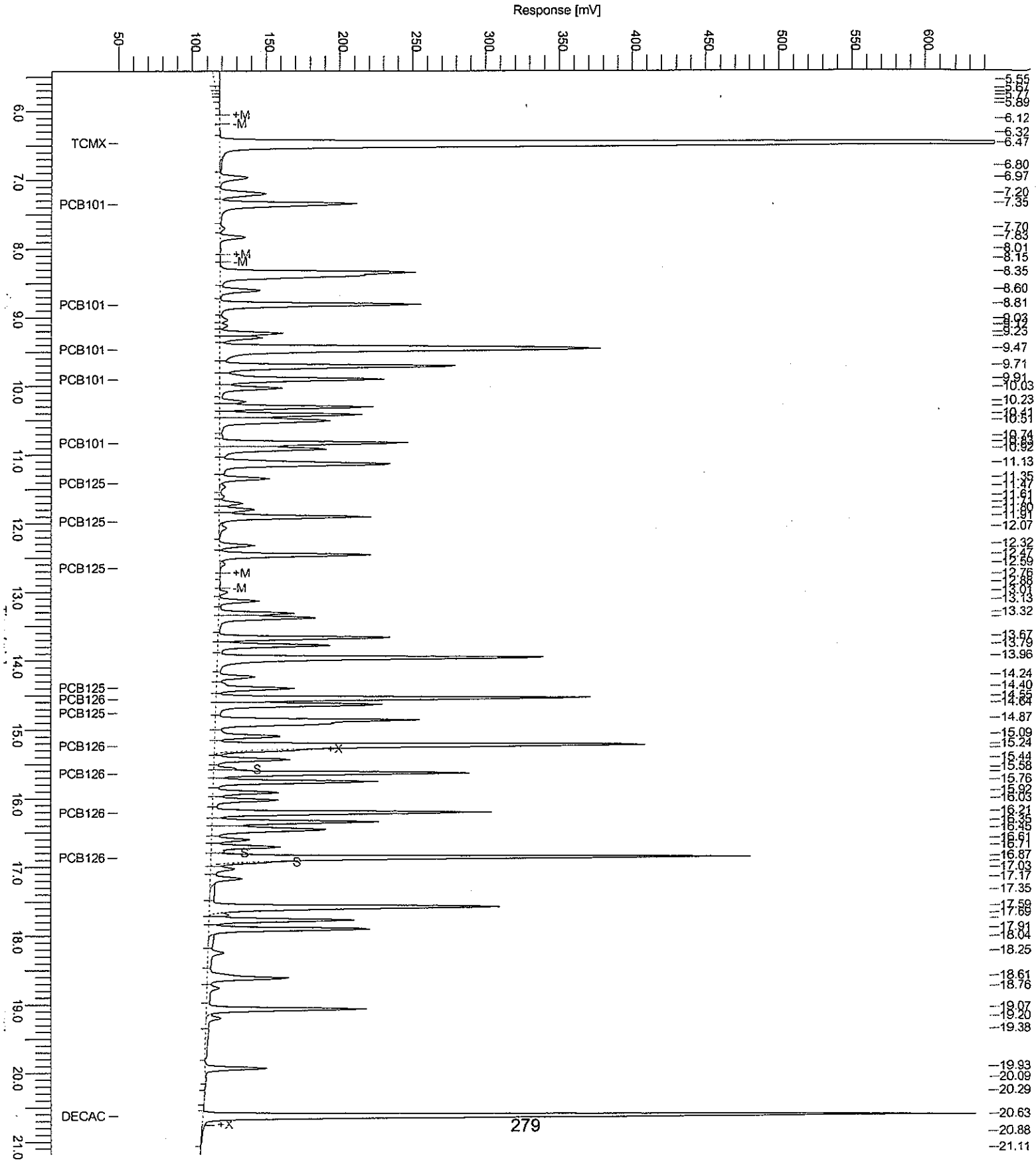
Report stored in ASCII file: G:\gc06\chb\316b015p.TX0

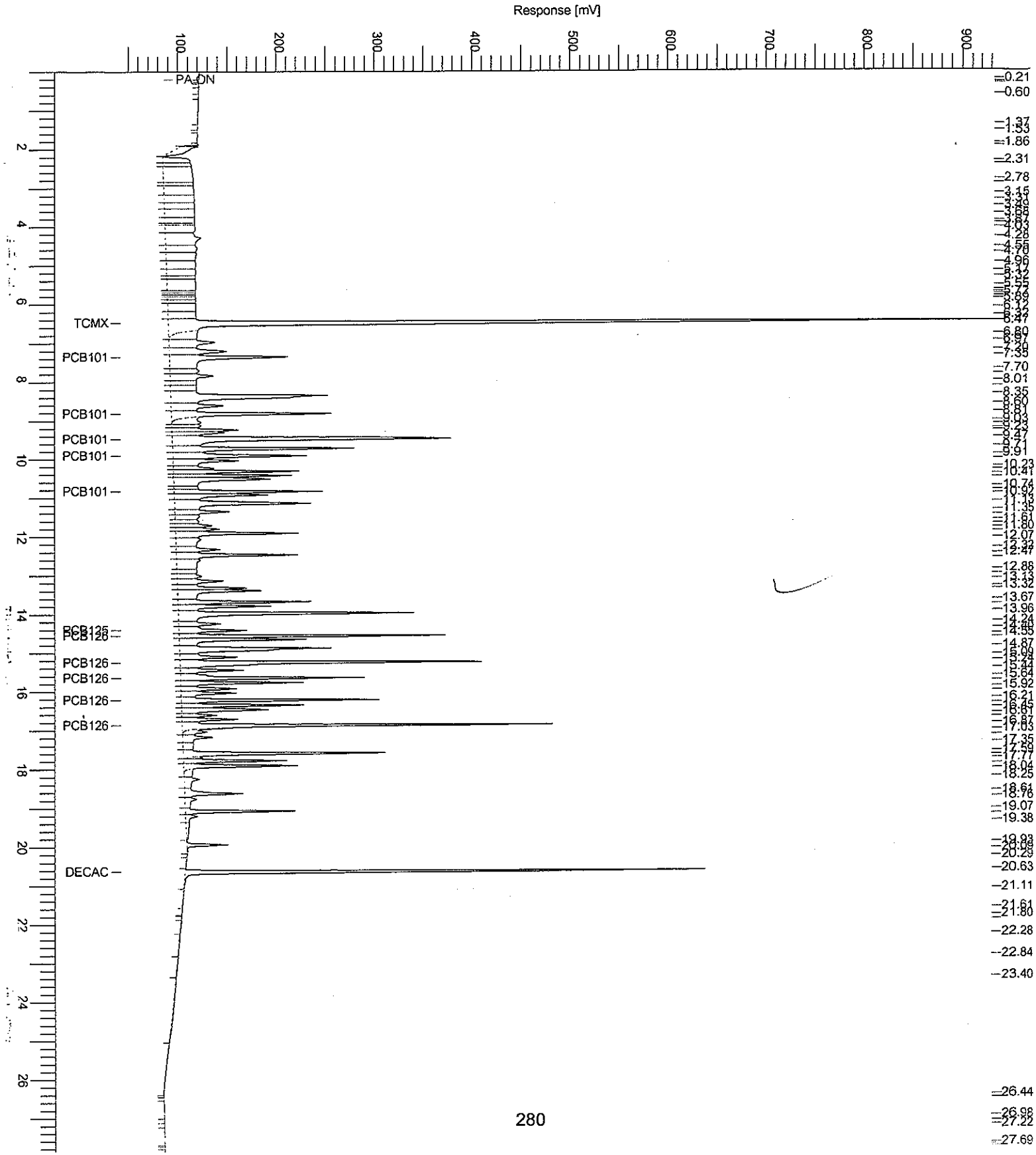
GC 06 Rtx-5

ample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\CHb\316b015.raw
ate : 11/12/04 11:52:10 AM
ethod :
Time of Injection: 11/12/04 12:04:16 AM
tart Time : 5.41 min End Time : 21.19 min Low Point : 49.60 mV High Point : 647.15 mV
lot Offset: 49.60 mV Plot Scale: 597.5 mV



GC 06 Rtx-5

ample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\CHb\316b015
ate : 11/12/04 11:28:37 AM
ethod : gc06fsa1ul Time of Injection: 11/12/04 12:04:16 AM
tart Time : 0.00 min End Time : 27.88 min Low Point : 42.04 mV High Point : 932.53 mV
cale Factor: 1.0 Plot Offset: 42.04 mV Plot Scale: 890.5 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204456284020
Calnum : 204456284001
Standards: 04WS2171

Run Name : accu_1660
Filename : 316_020
Caldate : 11-NOV-2004

Injected : 12-NOV-2004 15:44
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aroclor-1016	A	250.0000	281.0044	pg	12	15	
Aroclor-1260	A	250.0000	259.4729	pg	4	15	
TCMX	A	50.00000	51.32972	pg	3	15	
Decachlorobiphenyl	A	50.00000	59.95863	pg	20	15	
Aroclor-1016	B	250.0000	260.5455	pg	4	15	
Aroclor-1260	B	250.0000	256.6185	pg	3	15	
TCMX	B	50.00000	47.05805	pg	-6	15	
Decachlorobiphenyl	B	50.00000	58.17206	pg	16	15	

11/13/04

11/12/04

Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws2171,accu_1660
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 11/12/04 4:30:38 PM
Data Acquisition Time : 11/12/04 3:44:33 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\316a020p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	573347.99	51.33	1.0000	1	51.33	10.27
Aroclor-1016	10.862	450216.17	279.89	1.0000	1	279.89	55.98
Aroclor-1254	15.992	349888.14	0.35	1.0000	1	0.35	0.07
Aroclor-1260	18.307	596529.17	260.09	1.0000	1	260.09	52.02
Decachlorobiphenyl	21.640	488295.73	59.96	1.0000	1	59.96	11.99
		2458277.19	651.61			651.61	130.32

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	67817.84	281.87	1.0000	1	281.87	56.37
PCB1016#2	9.627	124072.57	268.94	1.0000	1	268.94	53.79
PCB1016#3	10.862	145617.57	285.50	1.0000	1	285.50	57.10
PCB1016#4	11.371	65334.27	283.37	1.0000	1	283.37	56.67
PCB1016#5	11.840	47373.93	285.34	1.0000	1	285.34	57.07
		450216.17	1405.02			1405.02	281.00

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	12.764	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#2	13.976	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	14.454	2127.21	1.90	1.0000	1	1.90	0.38
PCB1254#4	15.311	135655.40	146.08	1.0000	1	146.08	29.22
PCB1254#5	15.992	212105.53	170.77	1.0000	1	170.77	34.15
		349888.14	318.76			318.76	63.75

11/12/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.969	58927.42	248.91	1.0000	1	248.91	49.78
PCB1260#2	16.302	84621.24	262.63	1.0000	1	262.63	52.53
PCB1260#3	16.956	103463.42	271.16	1.0000	1	271.16	54.23
PCB1260#4	17.561	110883.50	254.57	1.0000	1	254.57	50.91
PCB1260#5	18.307	238633.59	260.09	1.0000	1	260.09	52.02
		596529.17	1297.36			1297.36	259.47

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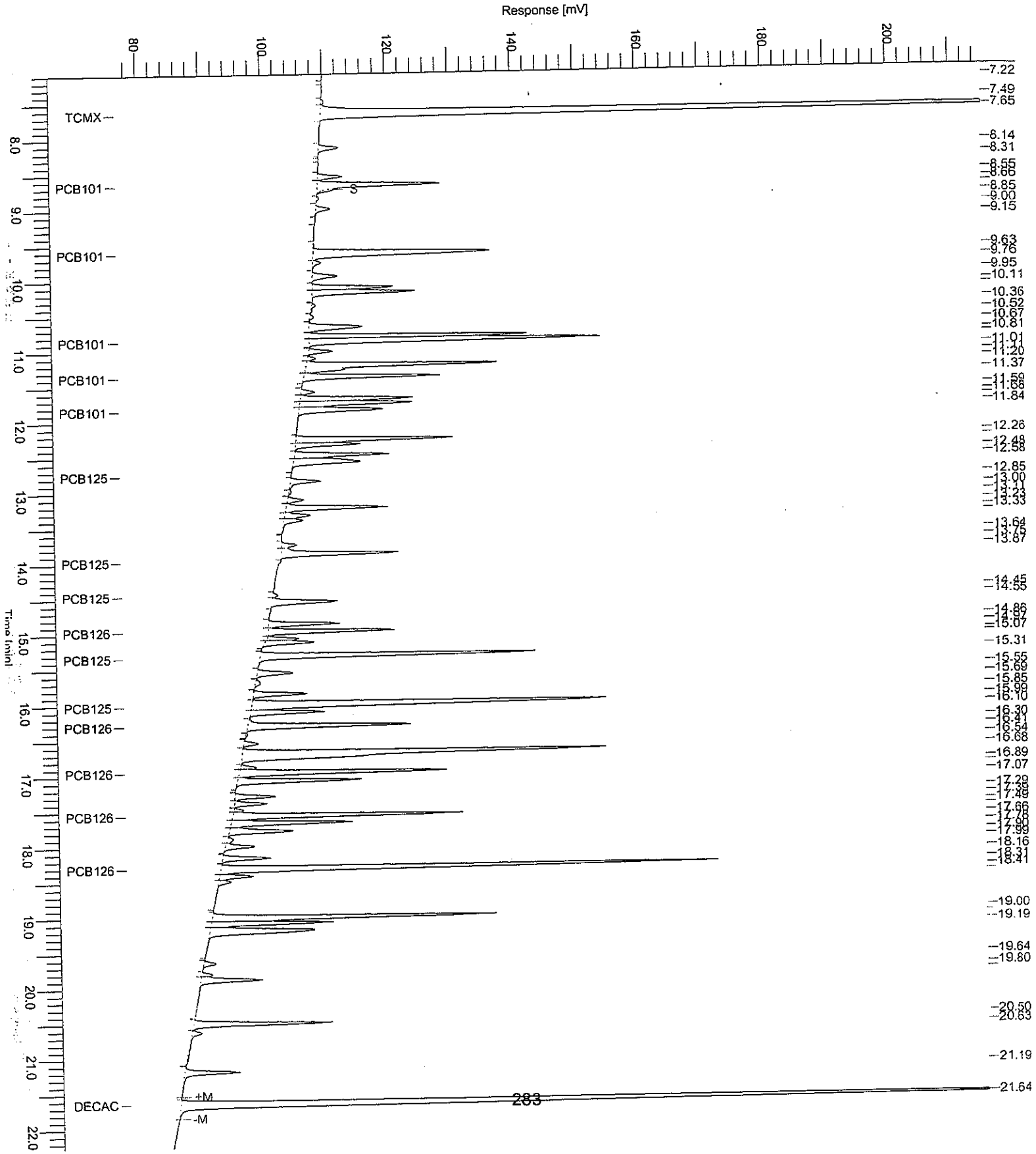
Report stored in ASCII file: G:\gc06\cha\316a020p.TX0

GC 06 Rtx-CLPesticides

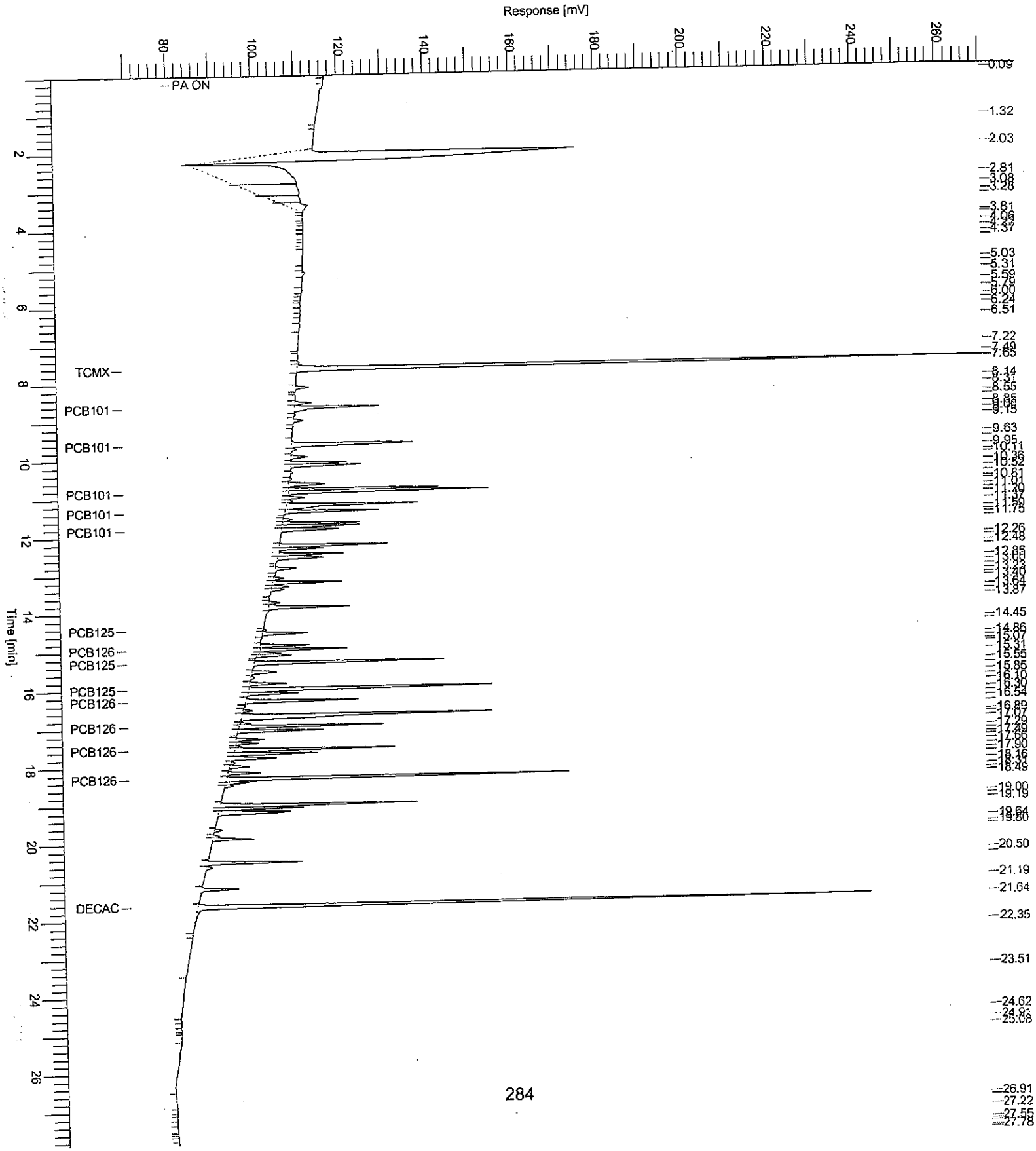
nple Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\CHa\316a020.raw
e : 11/12/04 4:30:42 PM
thod :
rt Time : 7.09 min End Time : 22.27 min Low Point : 76.57 mV High Point : 215.41 mV
t Offset: 76.57 mV Plot Scale: 138.8 mV

Time of Injection: 11/12/04 3:44:33 PM



GC 06 Rtx-CLPesticides

ample Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l
leName : G:\gc06\CHa\316a020.raw
ate : 11/12/04 4:29:42 PM Time of Injection: 11/12/04 3:44:33 PM
ethod : gc06fsa1ul
art Time : 0.00 min End Time : 27.88 min Low Point : 68.70 mV High Point : 270.41 mV
cale Factor: 1.0 Plot Offset: 68.70 mV Plot Scale: 201.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws2171,accu_1660
Instrument Name : gc06
Rack/Vial : 1/20
Sample Amount : 1.000000
Cycle : 20

Date : 11/12/04 4:31:33 PM
Data Acquisition Time : 11/12/04 3:44:33 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\316b020p.rst
Sequence File : G:\gc06\files\316.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.453	931406.06	47.06	1.0000	1	47.06	9.41
Aroclor-1016	9.453	895977.64	258.85	1.0000	1	258.85	51.77
Aroclor-1254	14.398	48425.56	0.05	1.0000	1	0.05	0.01
Aroclor-1260	16.867	1302925.68	257.74	1.0000	1	257.74	51.55
Decachlorobiphenyl	20.627	548146.61	58.17	1.0000	1	58.17	11.63
		3726881.54	621.87			621.87	124.37

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.333	112430.44	260.23	1.0000	1	260.23	52.05
PCB1016#2	8.800	146576.53	248.14	1.0000	1	248.14	49.63
PCB1016#3	9.453	392042.25	257.48	1.0000	1	257.48	51.50
PCB1016#4	9.893	118199.31	281.33	1.0000	1	281.33	56.27
PCB1016#5	10.813	126729.11	255.55	1.0000	1	255.55	51.11
		895977.64	1302.73			1302.73	260.55

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.454	1928.10	1.95	1.0000	1	1.95	0.39
PCB1254#2	11.973	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#3	12.635	0.00	0.00	1.0000	1	0.00	0.00
PCB1254#4	14.398	46497.46	172.31	1.0000	1	172.31	34.46
PCB1254#5	14.760	0.00	0.00	1.0000	1	0.00	0.00
		48425.56	174.26			174.26	34.85

Group Report For : Aroclor-1260

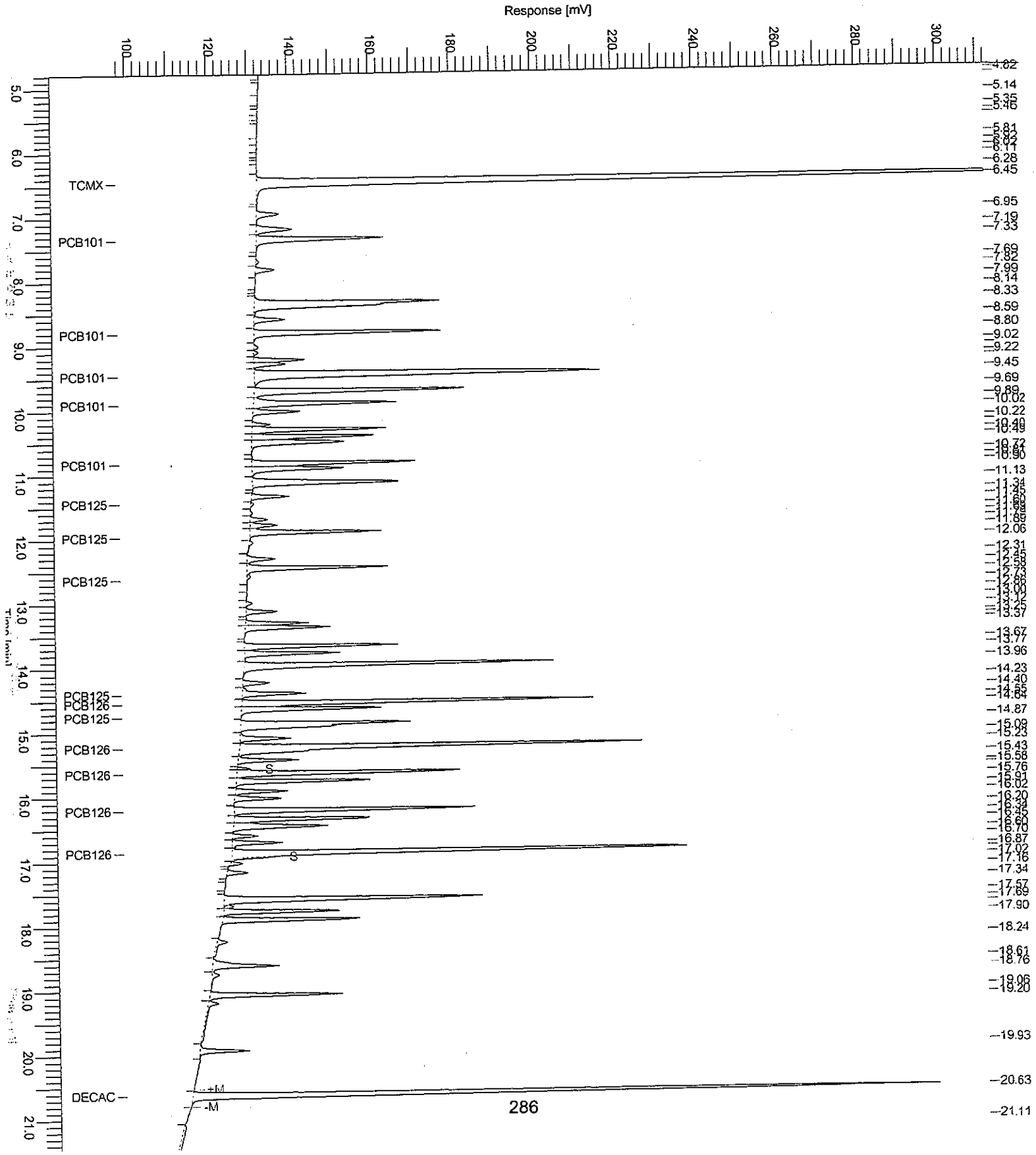
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.547	254587.61	254.75	1.0000	1	254.75	50.95
PCB1260#2	15.227	354222.03	284.24	1.0000	1	284.24	56.85
PCB1260#3	15.627	165328.93	249.55	1.0000	1	249.55	49.91
PCB1260#4	16.200	176076.98	250.17	1.0000	1	250.17	50.03
PCB1260#5	16.867	352710.13	244.39	1.0000	1	244.39	48.88
		1302925.68	1283.09			1283.09	256.62

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\316b020p.TX0

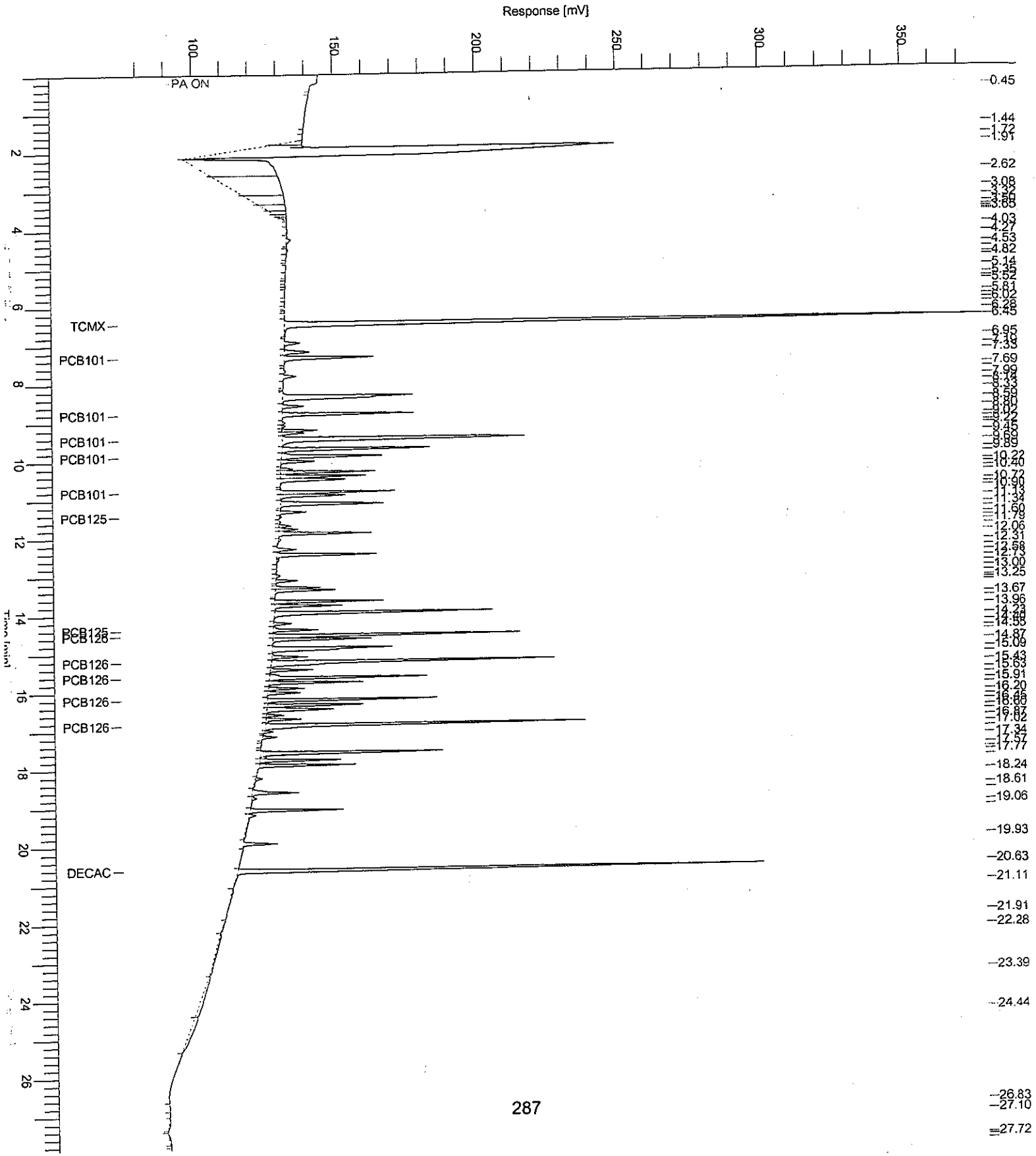
GC 06 Rtx-5

mple Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\316b020.raw
te : 11/12/04 4:31:38 PM
thod :
Time of Injection: 11/12/04 3:44:33 PM
art Time : 4.79 min End Time : 21.47 min Low Point : 97.70 mV High Point : 312.19 mV
t Offset: 97.70 mV Plot Scale: 214.5 mV



GC 06 Rtx-5

mple Name : x,icv,04ws2171,accu_1660 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\316b020
ate : 11/12/04 4:29:48 PM
ethod : gc06fsa1ul Time of Injection: 11/12/04 3:44:33 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 73.16 mV High Point : 378.88 mV
ale Factor: 1.0 Plot Offset: 73.16 mV Plot Scale: 305.7 mV



Turbochrom Method File G:\gc06\files\5460a320.mth
Printed by : analyst on: 11/15/04 3:44:41 PM
Created by : analyst on: 11/15/04 3:21:18 PM
Edited by : analyst on: 11/15/04 3:44:36 PM
Number of Times Edited : 16
Number of Times Calibrated : 205
Description: gc06

AR54 [illegible]

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference
Send Peak Area results to LIMS

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 7.653 min
Search Window : 3.00 s, 0.00 %
This component is a reference
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	230576.05	62795.44	----------	----------	1
4	50.0000	489654.36	133315.76	----------	----------	1
5	100.0000	1058904.69	280995.29	----------	----------	1
6	150.0000	1597577.72	431211.17	----------	----------	1
7	200.0000	2000763.06	534505.51	----------	----------	1
1	2.0000	27031.46	7151.92	----------	----------	1
2	5.0000	60541.64	15999.56	----------	----------	1

Average Calibration Factor = 11169.904270 (%RSD = 11.77)

11/15/04

PCB1016#1
Component Type : Single Peak Component
Retention Time : 8.663 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2614.76	758.19	----------	----------	1
2	25.0000	6047.28	1712.54	----------	----------	1
3	100.0000	25435.36	7073.23	----------	----------	1
4	250.0000	55413.64	14848.26	----------	----------	1
5	500.0000	119683.96	31422.09	----------	----------	1
6	750.0000	180885.32	47343.69	----------	----------	1
7	1000.0000	224281.06	58621.51	----------	----------	1

Average Calibration Factor = 240.600642 (%RSD = 6.01)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 9.623 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5334.92	1266.93	----------	----------	1
2	25.0000	12481.31	2865.62	----------	----------	1
3	100.0000	52571.61	11523.98	----------	----------	1
4	250.0000	103798.14	23215.39	----------	----------	1
5	500.0000	216827.41	47419.82	----------	----------	1
6	750.0000	321143.91	70179.44	----------	----------	1
7	1000.0000	393826.68	85470.55	----------	----------	1

Average Calibration Factor = 461.332340 (%RSD = 12.31)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 10.860 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5647.33	1769.88	----------	----------	1
2	25.0000	13342.29	4095.21	----------	----------	1
3	100.0000	54922.03	16516.23	----------	----------	1
4	250.0000	114698.09	34201.92	----------	----------	1
5	500.0000	251248.30	74712.63	----------	----------	1
6	750.0000	371615.50	110108.29	----------	----------	1
7	1000.0000	465894.44	139736.84	----------	----------	1

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Average Calibration Factor = 510.045123 (%RSD = 7.98)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 11.370 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2425.29	793.10	----------	----------	1
2	25.0000	5948.41	1848.81	----------	----------	1
3	100.0000	24300.30	7568.07	----------	----------	1
4	250.0000	51416.21	15924.26	----------	----------	1
5	500.0000	116446.84	35531.93	----------	----------	1
6	750.0000	173718.76	53438.94	----------	----------	1
7	1000.0000	220301.44	67279.67	----------	----------	1

Average Calibration Factor = 230.564712 (%RSD = 5.83)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	17056.31	5094.55	----------	----------	1
2	25.0000	43066.96	11773.25	----------	----------	1
3	100.0000	175960.19	47693.44	----------	----------	1
4	250.0000	364574.32	98980.61	----------	----------	1
5	500.0000	790353.41	212600.71	----------	----------	1
6	750.0000	1176192.11	316038.39	----------	----------	1
7	1000.0000	1464796.77	394744.59	----------	----------	1

Average Calibration Factor = 1608.566953 (%RSD = 7.65)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 11.841 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1034.02	506.44	----------	----------	1
2	25.0000	5247.68	1251.07	----------	----------	1
3	100.0000	18730.89	5011.93	----------	----------	1
4	250.0000	39248.24	10790.78	----------	----------	1
5	500.0000	86146.90	23514.24	----------	----------	1
6	750.0000	128828.61	34968.02	----------	----------	1
7	1000.0000	160493.14	43636.01	----------	----------	1

Average Calibration Factor = 166.024135 (%RSD = 19.80)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 13.226 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	90498.66	28543.18	----------	----------	1

Average Calibration Factor = 361.994641 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 13.869 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	164218.54	37245.64	----------	----------	1

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Average Calibration Factor = 656.874143 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

PCB1254#3
Component Type : Single Peak Component
Retention Time : 14.562 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	98125.72	29997.06	----------	----------	1

Average Calibration Factor = 392.502866 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.966 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2684.03	880.17	----------	----------	1
2	25.0000	6162.67	2029.81	----------	----------	1
3	100.0000	25801.69	8305.58	----------	----------	1
4	250.0000	53344.18	16736.94	----------	----------	1
5	500.0000	116893.53	37148.00	----------	----------	1
6	750.0000	168610.19	53664.22	----------	----------	1
7	1000.0000	212272.76	67364.88	----------	----------	1

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Average Calibration Factor = 236.739560 (%RSD = 9.20)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 15.547 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	114509.41	35840.77	----------	----------	1

Average Calibration Factor = 458.037654 (%RSD = 0.00)

PCB1254#5
Component Type : Single Peak Component
Retention Time : 15.999 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	117889.85	27527.70	----------	----------	1

Average Calibration Factor = 471.559415 (%RSD = 0.00)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 16.299 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3769.94	1120.61	----------	----------	1
2	25.0000	8946.58	2602.39	----------	----------	1
3	100.0000	33829.17	10226.79	----------	----------	1
4	250.0000	69304.46	20475.87	----------	----------	1
5	500.0000	156529.81	46919.71	----------	----------	1
6	750.0000	226397.08	67041.51	----------	----------	1
7	1000.0000	290132.94	88834.64	----------	----------	1

Average Calibration Factor = 322.203111 (%RSD = 11.39)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	28207.21	8833.94	----------	----------	1
2	25.0000	62873.33	20504.43	----------	----------	1
3	100.0000	251024.29	79624.84	----------	----------	1
4	250.0000	495264.78	154500.90	----------	----------	1
5	500.0000	1100945.56	344645.24	----------	----------	1
6	750.0000	1541927.23	484680.03	----------	----------	1
7	1000.0000	1970280.91	619345.64	----------	----------	1

Average Calibration Factor = 2293.575897 (%RSD = 14.25)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 16.952 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4200.80	1408.12	----------	----------	1
2	25.0000	10342.79	3404.72	----------	----------	1
3	100.0000	42964.13	13619.77	----------	----------	1
4	250.0000	86198.85	26676.27	----------	----------	1
5	500.0000	188698.76	58756.39	----------	----------	1
6	750.0000	263280.73	84713.50	----------	----------	1
7	1000.0000	334249.52	107548.08	----------	----------	1

Average Calibration Factor = 381.559484 (%RSD = 10.36)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 17.559 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5994.41	1768.85	----------	----------	1
2	25.0000	10121.95	3748.28	----------	----------	1
3	100.0000	48965.52	15421.46	----------	----------	1
4	250.0000	93595.94	29559.75	----------	----------	1
5	500.0000	209009.75	64451.94	----------	----------	1
6	750.0000	291742.67	91324.34	----------	----------	1
7	1000.0000	373663.89	116176.99	----------	----------	1

Average Calibration Factor = 435.576024 (%RSD = 18.93)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 18.307 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	11558.02	3656.20	----------	----------	1
2	25.0000	27299.34	8719.24	----------	----------	1
3	100.0000	99463.79	32051.24	----------	----------	1
4	250.0000	192821.34	61052.07	----------	----------	1
5	500.0000	429813.71	137369.21	----------	----------	1
6	750.0000	591896.56	187936.47	----------	----------	1
7	1000.0000	759961.80	239421.06	----------	----------	1

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Average Calibration Factor = 917.497717 (%RSD = 17.75)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.642 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	203741.21	64457.27	----------	----------	1
4	50.0000	387840.94	124286.31	----------	----------	1
5	100.0000	836459.74	258346.96	----------	----------	1
6	150.0000	1100187.29	342154.97	----------	----------	1
7	200.0000	1415265.08	438763.20	----------	----------	1

Average Calibration Factor = 8143.876800 (%RSD = 15.25)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
230576.05	62795.44	20.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
489654.36	133315.76	50.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1058904.69	280995.29	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1597577.72	431211.17	150.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2000763.06	534505.51	200.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27031.46	7151.92	2.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60541.64	15999.56	5.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2614.76	758.19	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6047.28	1712.54	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25435.36	7073.23	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55413.64	14848.26	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119683.96	31422.09	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
180885.32	47343.69	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
224281.06	58621.51	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5334.92	1266.93	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12481.31	2865.62	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52571.61	11523.98	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103798.14	23215.39	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216827.41	47419.82	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
321143.91	70179.44	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
393826.68	85470.55	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5647.33	1769.88	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13342.29	4095.21	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54922.03	16516.23	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114698.09	34201.92	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251248.30	74712.63	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371615.50	110108.29	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
465894.44	139736.84	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2425.29	793.10	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5948.41	1848.81	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24300.30	7568.07	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51416.21	15924.26	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116446.84	35531.93	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
173718.76	53438.94	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220301.44	67279.67	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17056.31	5094.55	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43066.96	11773.25	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175960.19	47693.44	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
364574.32	98980.61	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
790353.41	212600.71	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1176192.11	316038.39	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1464796.77	394744.59	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1016#5
Level : 1

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1034.02	506.44	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5247.68	1251.07	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18730.89	5011.93	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39248.24	10790.78	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86146.90	23514.24	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128828.61	34968.02	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160493.14	43636.01	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
90498.66	28543.18	250.0000	----------	----------	11/15/04	3:44:25 PM	G:\gc06\cha\320a004p.rst

Component : PCB1254#2
Level' : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
164218.54	37245.64	250.0000	----------	----------	11/15/04	3:44:25 PM	G:\gc06\cha\320a004p.rst

Component : Aroclor-1254
This component has no calibration levels

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98125.72	29997.06	250.0000	----------	----------	11/15/04	3:44:25 PM	G:\gc06\cha\320a004p.rst

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2684.03	880.17	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6162.67	2029.81	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25801.69	8305.58	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53344.18	16736.94	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116893.53	37148.00	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
168610.19	53664.22	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
212272.76	67364.88	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114509.41	35840.77	250.0000	----------	----------	11/15/04	3:44:25 PM	G:\gc06\cha\320a004p.rst

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117889.85	27527.70	250.0000	----------	----------	11/15/04	3:44:25 PM	G:\gc06\cha\320a004p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3769.94	1120.61	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8946.58	2602.39	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33829.17	10226.79	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69304.46	20475.87	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
156529.81	46919.71	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226397.08	67041.51	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290132.94	88834.64	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28207.21	8833.94	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
62873.33	20504.43	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251024.29	79624.84	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
495264.78	154500.90	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100945.56	344645.24	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1541927.23	484680.03	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1970280.91	619345.64	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4200.80	1408.12	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10342.79	3404.72	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42964.13	13619.77	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86198.85	26676.27	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188698.76	58756.39	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
263280.73	84713.50	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
334249.52	107548.08	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5994.41	1768.85	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10121.95	3748.28	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48965.52	15421.46	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93595.94	29559.75	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209009.75	64451.94	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
291742.67	91324.34	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
373663.89	116176.99	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : PCB1260#5
Level : 1

11/15/04 3:44:41 PM Method: G:\gc06\files\5460a320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11558.02	3656.20	10.0000	----------	----------	11/12/04	12:33:02 PM	G:\gc06\cha\316aO09p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27299.34	8719.24	25.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316aO10p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
99463.79	32051.24	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
192821.34	61052.07	250.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
429813.71	137369.21	500.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
591896.56	187936.47	750.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
759961.80	239421.06	1000.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
203741.21	64457.27	20.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
387840.94	124286.31	50.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
836459.74	258346.96	100.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1100187.29	342154.97	150.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1415265.08	438763.20	200.0000	----------	----------	11/12/04	12:33:03 PM	G:\gc06\cha\316a015p.rst

Turbochrom Method File G:\gc06\files\5460b320.mth
Printed by : analyst on: 11/15/04 3:45:57 PM
Created by : analyst on: 11/15/04 3:22:46 PM
Edited by : analyst on: 11/15/04 3:45:26 PM
Number of Times Edited : 13
Number of Times Calibrated : 211
Description: gc 06

AR54 11/15/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 6.468 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	417535.59	107450.20	----------	----------	1
4	50.0000	865412.65	211766.74	----------	----------	1
5	100.0000	1756542.62	435806.13	----------	----------	1
1	2.0000	52464.74	13582.34	----------	----------	1
2	5.0000	117079.49	29448.58	----------	----------	1
6	150.0000	2585454.41	659761.68	----------	----------	1
7	200.0000	3182766.70	813803.41	----------	----------	1

Average Calibration Factor = 19792.703181 (%RSD = 19.40)

11/15/04

PCB1016#1
Component Type : Single Peak Component
Retention Time : 7.351 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	4735.19	1251.45	----------	----------	1
2	25.0000	11128.56	2874.03	----------	----------	1
3	100.0000	45281.46	11566.31	----------	----------	1
4	250.0000	106694.40	24486.31	----------	----------	1
5	500.0000	209246.24	50402.41	----------	----------	1
6	750.0000	320567.07	76513.02	----------	----------	1
7	1000.0000	380135.03	93279.33	----------	----------	1

Average Calibration Factor = 432.043393 (%RSD = 6.85)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 8.814 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	7668.52	2232.86	----------	----------	1
2	25.0000	16742.59	5017.95	----------	----------	1
3	100.0000	63015.84	18897.08	----------	----------	1
4	250.0000	133617.15	38017.65	----------	----------	1
5	500.0000	266742.73	77706.09	----------	----------	1
6	750.0000	395517.18	113297.48	----------	----------	1
7	1000.0000	472919.78	136992.42	----------	----------	1

Average Calibration Factor = 590.706283 (%RSD = 17.37)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 9.465 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18781.51	3731.55	----------	----------	1
2	25.0000	41840.17	8393.44	----------	----------	1
3	100.0000	160277.06	32380.92	----------	----------	1
4	250.0000	351234.46	67806.22	----------	----------	1
5	500.0000	714949.37	142763.92	----------	----------	1
6	750.0000	1043320.26	209216.94	----------	----------	1
7	1000.0000	1277925.05	259941.94	----------	----------	1

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Average Calibration Factor = 1522.626241 (%RSD = 13.55)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 9.908 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3988.25	1217.31	----------	----------	1
2	25.0000	9520.44	2767.99	----------	----------	1
3	100.0000	38328.43	11446.84	----------	----------	1
4	250.0000	109849.59	26986.54	----------	----------	1
5	500.0000	229947.63	52103.82	----------	----------	1
6	750.0000	341650.43	81672.86	----------	----------	1
7	1000.0000	423281.08	102751.40	----------	----------	1

Average Calibration Factor = 420.147909 (%RSD = 7.88)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 10.831 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5725.17	1759.30	----------	----------	1
2	25.0000	13749.82	4153.41	----------	----------	1
3	100.0000	54940.94	16212.62	----------	----------	1
4	250.0000	114604.11	32977.73	----------	----------	1
5	500.0000	234536.26	70535.06	----------	----------	1
6	750.0000	340783.52	104298.99	----------	----------	1
7	1000.0000	417499.33	128360.72	----------	----------	1

Average Calibration Factor = 495.897900 (%RSD = 12.11)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	40898.63	10192.48	----------	----------	1
2	25.0000	92981.59	23206.82	----------	----------	1
3	100.0000	361843.73	90503.77	----------	----------	1
4	250.0000	815999.70	190274.45	----------	----------	1
5	500.0000	1655422.24	393511.29	----------	----------	1
6	750.0000	2441838.47	584999.28	----------	----------	1
7	1000.0000	2971760.27	721325.81	----------	----------	1

Average Calibration Factor = 3461.421725 (%RSD = 10.74)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 11.907 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	205658.56	61189.99	----------	----------	1

Average Calibration Factor = 822.634256 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 12.467 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	275616.58	76165.36	----------	----------	1

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Average Calibration Factor = 1102.466329 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 13.133 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	178807.50	55327.57	----------	----------	1

Average Calibration Factor = 715.230014 (%RSD = 0.00)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 13.387 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	311161.28	93140.06	----------	----------	1

Average Calibration Factor = 1244.645129 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

PCB1254#5
Component Type : Single Peak Component
Retention Time : 13.671 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	69792.24	22296.66	----------	----------	1

Average Calibration Factor = 279.168951 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 14.554 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	12350.30	4372.89	----------	----------	1
2	25.0000	31107.54	10320.93	----------	----------	1
3	100.0000	109732.87	36253.97	----------	----------	1
4	250.0000	221062.46	70503.76	----------	----------	1
5	500.0000	452676.06	145739.47	----------	----------	1
6	750.0000	623720.92	203070.26	----------	----------	1
7	1000.0000	797697.07	256159.36	----------	----------	1

Average Calibration Factor = 999.369600 (%RSD = 18.99)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	60992.79	20609.22	----------	----------	1
2	25.0000	153660.53	49672.11	----------	----------	1
3	100.0000	558309.91	177483.56	----------	----------	1
4	250.0000	1118362.14	350770.74	----------	----------	1
5	500.0000	2346688.94	739661.23	----------	----------	1
6	750.0000	3178609.72	1.00e+06	----------	----------	1
7	1000.0000	4152451.27	1.29e+06	----------	----------	1

Average Calibration Factor = 5055.174703 (%RSD = 17.15)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 15.240 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	14028.90	4428.91	----------	----------	1
2	25.0000	35536.76	10752.30	----------	----------	1
3	100.0000	138314.53	39473.52	----------	----------	1
4	250.0000	288739.04	81560.71	----------	----------	1
5	500.0000	608979.93	172418.71	----------	----------	1
6	750.0000	810471.14	229045.40	----------	----------	1
7	1000.0000	1062506.99	294746.87	----------	----------	1

Average Calibration Factor = 1246.222448 (%RSD = 12.44)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 15.641 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8007.17	2820.00	----------	----------	1
2	25.0000	21696.40	7049.76	----------	----------	1
3	100.0000	70873.85	24131.10	----------	----------	1
4	250.0000	145056.98	48529.42	----------	----------	1
5	500.0000	300194.68	101180.23	----------	----------	1
6	750.0000	407718.04	136862.44	----------	----------	1
7	1000.0000	536022.82	174859.76	----------	----------	1

Average Calibration Factor = 662.510863 (%RSD = 19.89)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 16.214 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	8041.75	2877.18	----------	----------	1
2	25.0000	20879.10	7213.17	----------	----------	1
3	100.0000	81392.81	26721.22	----------	----------	1
4	250.0000	155034.61	52493.41	----------	----------	1
5	500.0000	328797.96	109927.59	----------	----------	1
6	750.0000	448339.95	147303.78	----------	----------	1
7	1000.0000	597963.88	190729.05	----------	----------	1

Average Calibration Factor = 703.821646 (%RSD = 15.46)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 16.868 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	18564.66	6110.25	----------	----------	1
2	25.0000	44440.74	14335.96	----------	----------	1
3	100.0000	157995.84	50903.75	----------	----------	1
4	250.0000	308469.04	97683.44	----------	----------	1
5	500.0000	656040.32	210395.23	----------	----------	1
6	750.0000	888359.67	284652.21	----------	----------	1
7	1000.0000	1158260.50	369299.56	----------	----312-----	1

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Average Calibration Factor = 1443.250147 (%RSD = 20.21)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.629 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	248072.50	79341.13	----------	----------	1
4	50.0000	454140.18	145920.11	----------	----------	1
5	100.0000	942227.25	315397.53	----------	----------	1
6	150.0000	1238324.01	413950.45	----------	----------	1
7	200.0000	1590011.58	530466.47	----------	----------	1

Average Calibration Factor = 9422.850445 (%RSD = 18.78)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
417535.59	107450.20	20.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
865412.65	211766.74	50.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1756542.62	435806.13	100.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52464.74	13582.34	2.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
117079.49	29448.58	5.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2585454.41	659761.68	150.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3182766.70	813803.41	200.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4735.19	1251.45	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11128.56	2874.03	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45281.46	11566.31	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106694.40	24486.31	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
209246.24	50402.41	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
320567.07	76513.02	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
380135.03	93279.33	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7668.52	2232.86	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16742.59	5017.95	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63015.84	18897.08	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133617.15	38017.65	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
266742.73	77706.09	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
395517.18	113297.48	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
472919.78	136992.42	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18781.51	3731.55	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41840.17	8393.44	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160277.06	32380.92	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
351234.46	67806.22	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
714949.37	142763.92	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1043320.26	209216.94	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1277925.05	259941.94	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3988.25	1217.31	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9520.44	2767.99	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38328.43	11446.84	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109849.59	26986.54	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
229947.63	52103.82	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
341650.43	81672.86	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
423281.08	102751.40	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1016#5
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5725.17	1759.30	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13749.82	4153.41	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54940.94	16212.62	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114604.11	32977.73	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234536.26	70535.06	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
340783.52	104298.99	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
417499.33	128360.72	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Aroclor-1016
Level : 1

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40898.63	10192.48	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92981.59	23206.82	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
361843.73	90503.77	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
815999.70	190274.45	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1655422.24	393511.29	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2441838.47	584999.28	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2971760.27	721325.81	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205658.56	61189.99	250.0000	----------	----------	11/15/04	3:45:23 PM	G:\gc06\chb\320b004p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
275616.58	76165.36	250.0000	----------	----------	11/15/04	3:45:23 PM	G:\gc06\chb\320b004p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
178807.50	55327.57	250.0000	----------	----------	11/15/04	3:45:23 PM	G:\gc06\chb\320b004p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
311161.28	93140.06	250.0000	----------	----------	11/15/04	3:45:23 PM	G:\gc06\chb\320b004p.rst

Component : Aroclor-1254
This component has no calibration levels

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69792.24	22296.66	250.0000	----------	----------	11/15/04	3:45:23 PM	G:\gc06\chb\320b004p.rst

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12350.30	4372.89	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31107.54	10320.93	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
109732.87	36253.97	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
221062.46	70503.76	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
452676.06	145739.47	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
623720.92	203070.26	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
797697.07	256159.36	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60992.79	20609.22	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
153660.53	49672.11	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
558309.91	177483.56	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1118362.14	350770.74	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2346688.94	739661.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3178609.72	1.00093e+006	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4152451.27	1.28579e+006	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14028.90	4428.91	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35536.76	10752.30	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
138314.53	39473.52	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
288739.04	81560.71	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
608979.93	172418.71	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
810471.14	229045.40	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1062506.99	294746.87	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8007.17	2820.00	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21696.40	7049.76	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70873.85	24131.10	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
145056.98	48529.42	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
300194.68	101180.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
407718.04	136862.44	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
536022.82	174859.76	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8041.75	2877.18	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20879.10	7213.17	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81392.81	26721.22	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
155034.61	52493.41	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
328797.96	109927.59	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
448339.95	147303.78	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
597963.88	190729.05	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : PCB1260#5
Level : 1

11/15/04 3:45:57 PM Method: G:\gc06\files\5460b320.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18564.66	6110.25	10.0000	----------	----------	11/12/04	12:47:34 PM	G:\gc06\chb\316b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44440.74	14335.96	25.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
157995.84	50903.75	100.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
308469.04	97683.44	250.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
656040.32	210395.23	500.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
888359.67	284652.21	750.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1158260.50	369299.56	1000.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
248072.50	79341.13	20.0000	----------	----------	11/12/04	12:43:42 PM	G:\gc06\chb\316b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
454140.18	145920.11	50.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
942227.25	315397.53	100.0000	----------	----------	11/12/04	12:39:09 PM	G:\gc06\chb\316b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1238324.01	413950.45	150.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1590011.58	530466.47	200.0000	----------	----------	11/12/04	12:39:10 PM	G:\gc06\chb\316b015p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By: [illegible] 11/15/04

Instrument: GC06 Gas Chromatograph #6 ECD
Calnum: 204461493001 Name: Type: (normal) Date: 15-NOV-2004 12:43 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	320_004	204461493004	ar1254	15-NOV-2004 12:43	04WS2184

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	361.99	AVRG	R		0.002762		pg	361.99	0	—	.99	20	
Aroclor-1254 Peak # 2	A	656.87	AVRG	R		0.001522		pg	656.87	0	—	.99	20	
Aroclor-1254 Peak # 3	A	392.50	AVRG	R		0.002548		pg	392.50	0	—	.99	20	
Aroclor-1254 Peak # 4	A	458.04	AVRG	R		0.002183		pg	458.04	0	—	.99	20	
Aroclor-1254 Peak # 5	A	471.56	AVRG	R		0.002121		pg	471.56	0	—	.99	20	
Aroclor-1254 Peak # 1	B	822.63	AVRG	R		0.001216		pg	822.63	0	—	.99	20	
Aroclor-1254 Peak # 2	B	1102.5	AVRG	R		9.071E-4		pg	1102.5	0	—	.99	20	
Aroclor-1254 Peak # 3	B	715.23	AVRG	R		0.001398		pg	715.23	0	—	.99	20	
Aroclor-1254 Peak # 4	B	1244.6	AVRG	R		8.034E-4		pg	1244.6	0	—	.99	20	
Aroclor-1254 Peak # 5	B	279.17	AVRG	R		0.003582		pg	279.17	0	—	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

11/15/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204461493004
Calnum : 204461493001
Standards: 04WS2184

Run Name : ar1254
Filename : 320_004
Caldate : 15-NOV-2004

IDF : 1.0
Injected : 15-NOV-2004 12:43
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	250.0000	pg	0	15	
Aroclor-1254	B			250.0000	250.0000	pg	0	15	

11/15/04

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/4
Sample Amount : 1.000000
Cycle : 4

Date : 11/15/04 3:41:10 PM
Data Acquisition Time : 11/15/04 12:43:40 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\320a004p.rst
Sequence File : G:\gc06\files\320.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.653	528503.76	47.31	1.0000	1	47.31	9.46
Aroclor-1016	11.835	8100.60	5.04	1.0000	1	5.04	1.01
Aroclor-1254	13.869	585242.18	0.59	1.0000	1	0.59	0.12
Aroclor-1260	16.300	66127.73	28.83	1.0000	1	28.83	5.77
Decachlorobiphenyl	21.640	468288.97	57.50	1.0000	1	57.50	11.50
		1656263.23	139.27			139.27	27.85

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.626	2847.91	6.17	1.0000	1	6.17	1.23
PCB1016#3	10.860	1740.99	3.41	1.0000	1	3.41	0.68
PCB1016#4	11.369	791.17	3.43	1.0000	1	3.43	0.69
PCB1016#5	11.835	2720.53	16.39	1.0000	1	16.39	3.28
		8100.60	29.40			29.40	5.88

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.226	90498.66	143.98	1.0000	1	143.98	28.80
PCB1254#2	13.869	164218.54	252.26	1.0000	1	252.26	50.45
PCB1254#3	14.562	98125.72	87.61	1.0000	1	87.61	17.52
PCB1254#4	15.547	114509.41	123.31	1.0000	1	123.31	24.66
PCB1254#5	15.999	117889.85	94.92	1.0000	1	94.92	18.98
		585242.18	702.08			702.08	140.42

11/15/04

Group Report For : Aroclor-1260

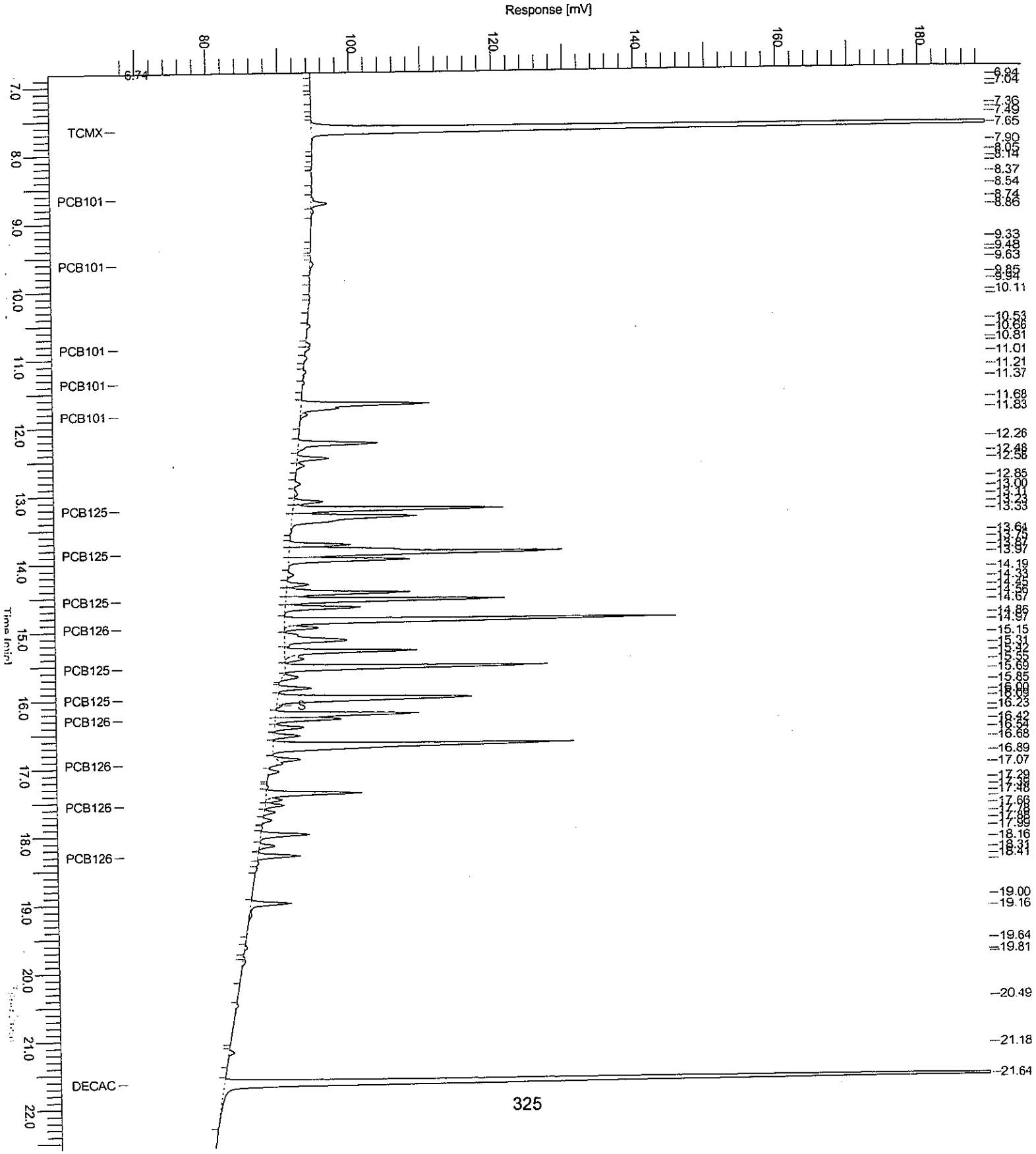
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.968	13586.94	57.39	1.0000	1	57.39	11.48
PCB1260#2	16.300	27444.28	85.18	1.0000	1	85.18	17.04
PCB1260#3	16.952	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#4	17.559	7575.83	17.39	1.0000	1	17.39	3.48
PCB1260#5	18.306	17520.68	19.10	1.0000	1	19.10	3.82
		66127.73	179.06			179.06	35.81

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\320a004p.TX0

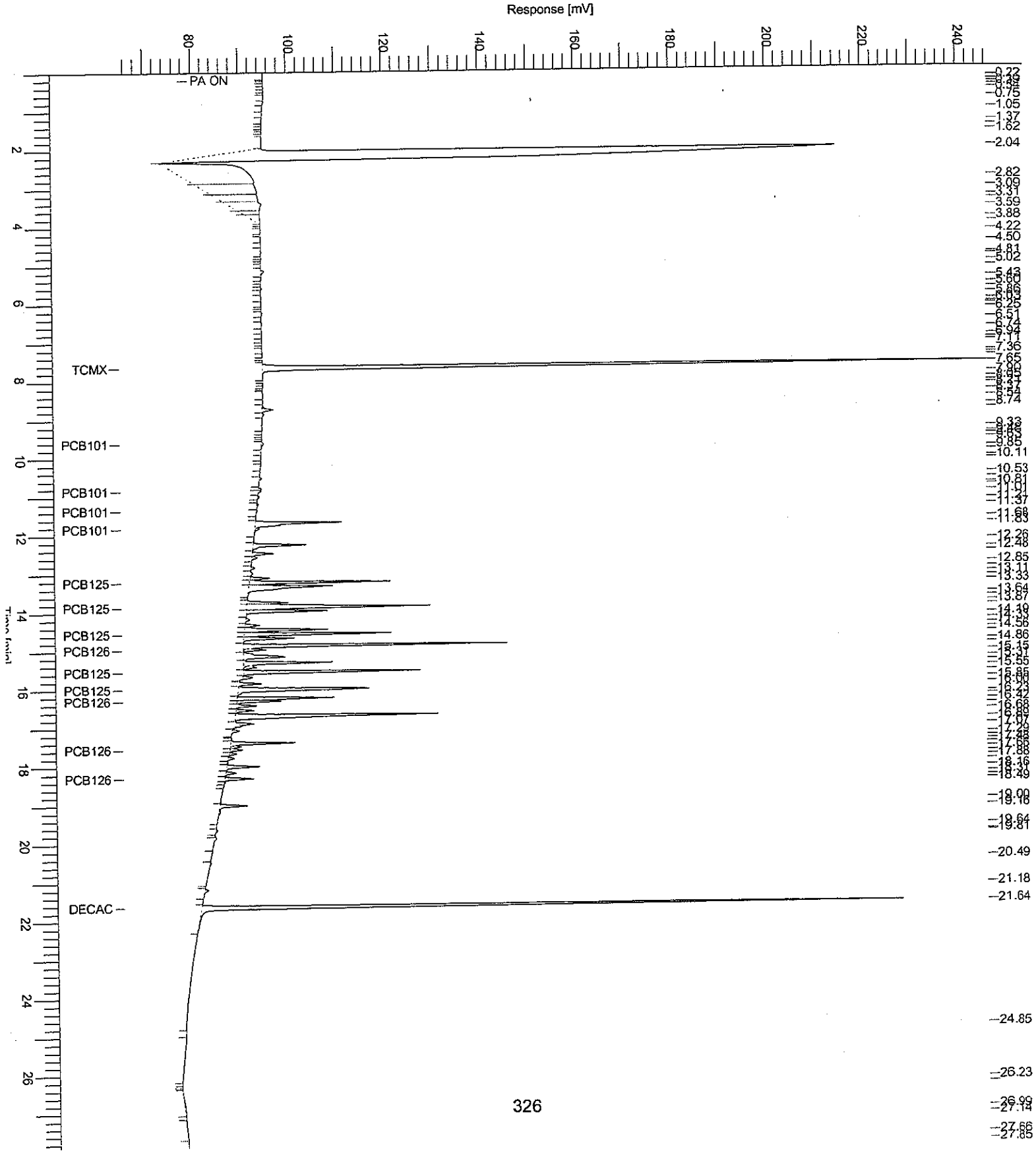
GC 06 Rtx-CLPesticides

mple Name : ccv,04ws2184,ar1254 Sample #: 250ug/l
eName : G:\gc06\CHa\320a004.raw
te : 11/15/04 3:41:14 PM
thod :
Time of Injection: 11/15/04 12:43:40 PM
rt Time : 6.81 min End Time : 22.59 min Low Point : 67.31 mV High Point : 189.32 mV
t Offset: 67.31 mV Plot Scale: 122.0 mV



GC 06 Rtx-CLPesticides

nple Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHa\320a004.raw
te : 11/15/04 3:24:16 PM
thod : gc06fsa1ul Time of Injection: 11/15/04 12:43:40 PM
rt Time : 0.00 min End Time : 27.88 min Low Point : 64.75 mV High Point : 246.55 mV
ale Factor: 1.0 Plot Offset: 64.75 mV Plot Scale: 181.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/4
Sample Amount : 1.000000
Cycle : 4

Date : 11/15/04 3:42:04 PM
Data Acquisition Time : 11/15/04 12:43:40 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\320b004p.rst
Sequence File : G:\gc06\files\320.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.467	977061.47	49.36	1.0000	1	49.36	9.87
Aroclor-1016	10.831	91557.75	26.45	1.0000	1	26.45	5.29
Aroclor-1254	13.387	1041036.17	1.04	1.0000	1	1.04	0.21
Aroclor-1260	15.240	483951.75	95.73	1.0000	1	95.73	19.15
Decachlorobiphenyl	20.627	554934.29	58.89	1.0000	1	58.89	11.78
		3148541.43	231.48			231.48	46.30

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.351	1828.98	4.23	1.0000	1	4.23	0.85
PCB1016#2	8.814	6614.03	11.20	1.0000	1	11.20	2.24
PCB1016#3	9.457	10546.24	6.93	1.0000	1	6.93	1.39
PCB1016#4	9.908	1816.58	4.32	1.0000	1	4.32	0.86
PCB1016#5	10.831	70751.92	142.67	1.0000	1	142.67	28.53
		91557.75	169.35			169.35	33.87

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.907	205658.56	207.94	1.0000	1	207.94	41.59
PCB1254#2	12.467	275616.58	203.57	1.0000	1	203.57	40.71
PCB1254#3	13.133	178807.50	217.39	1.0000	1	217.39	43.48
PCB1254#4	13.387	311161.28	1153.09	1.0000	1	1153.09	230.62
PCB1254#5	13.671	69792.24	55.25	1.0000	1	55.25	11.05
		1041036.17	1837.23			1837.23	367.45

Group Report For : Aroclor-1260

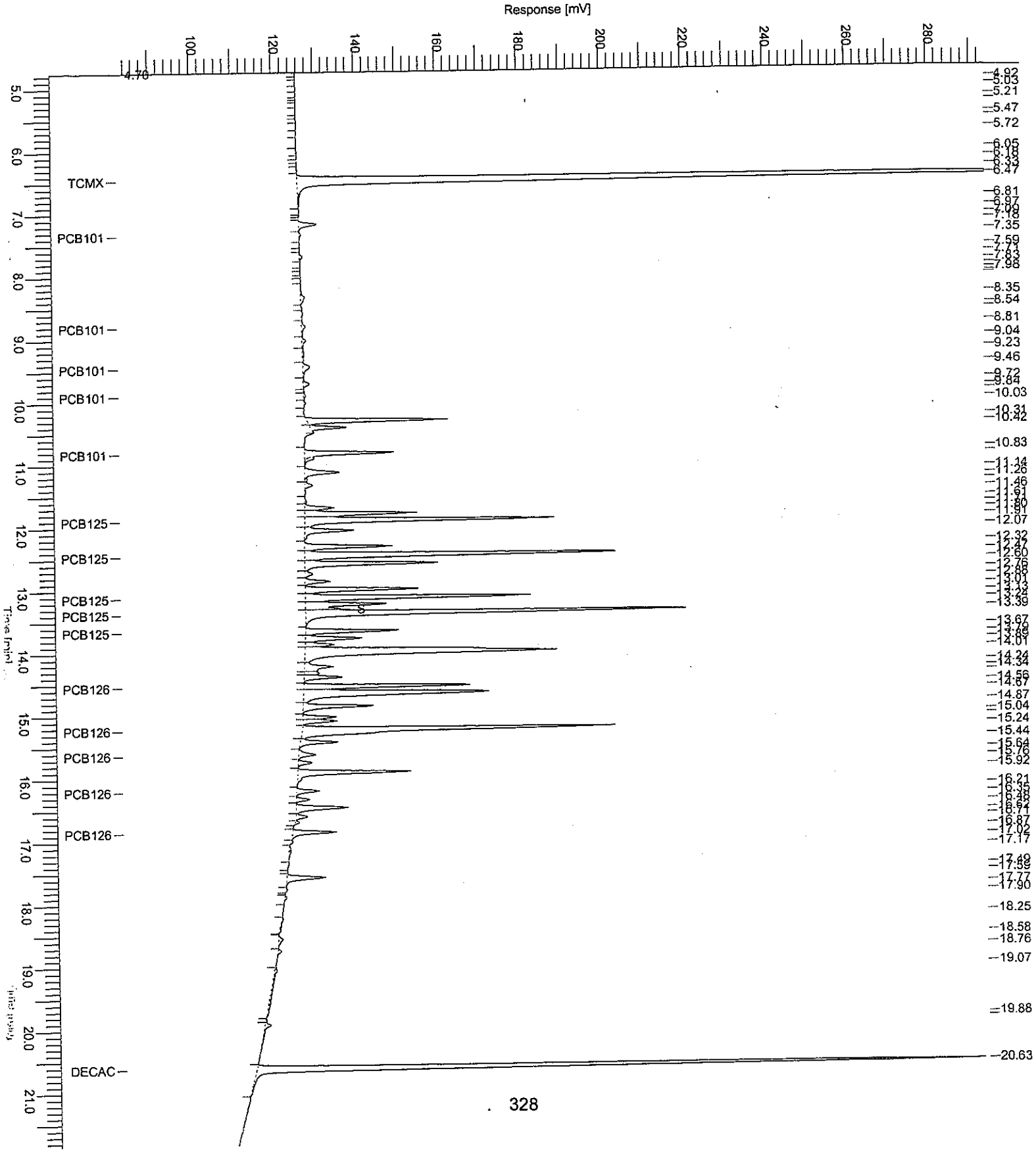
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.560	124495.66	124.57	1.0000	1	124.57	24.91
PCB1260#2	15.240	294850.45	236.60	1.0000	1	236.60	47.32
PCB1260#3	15.639	15381.63	23.22	1.0000	1	23.22	4.64
PCB1260#4	16.214	16129.81	22.92	1.0000	1	22.92	4.58
PCB1260#5	16.870	33094.20	22.93	1.0000	1	22.93	4.59
		483951.75	430.23			430.23	86.05

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\320b004p.TX0

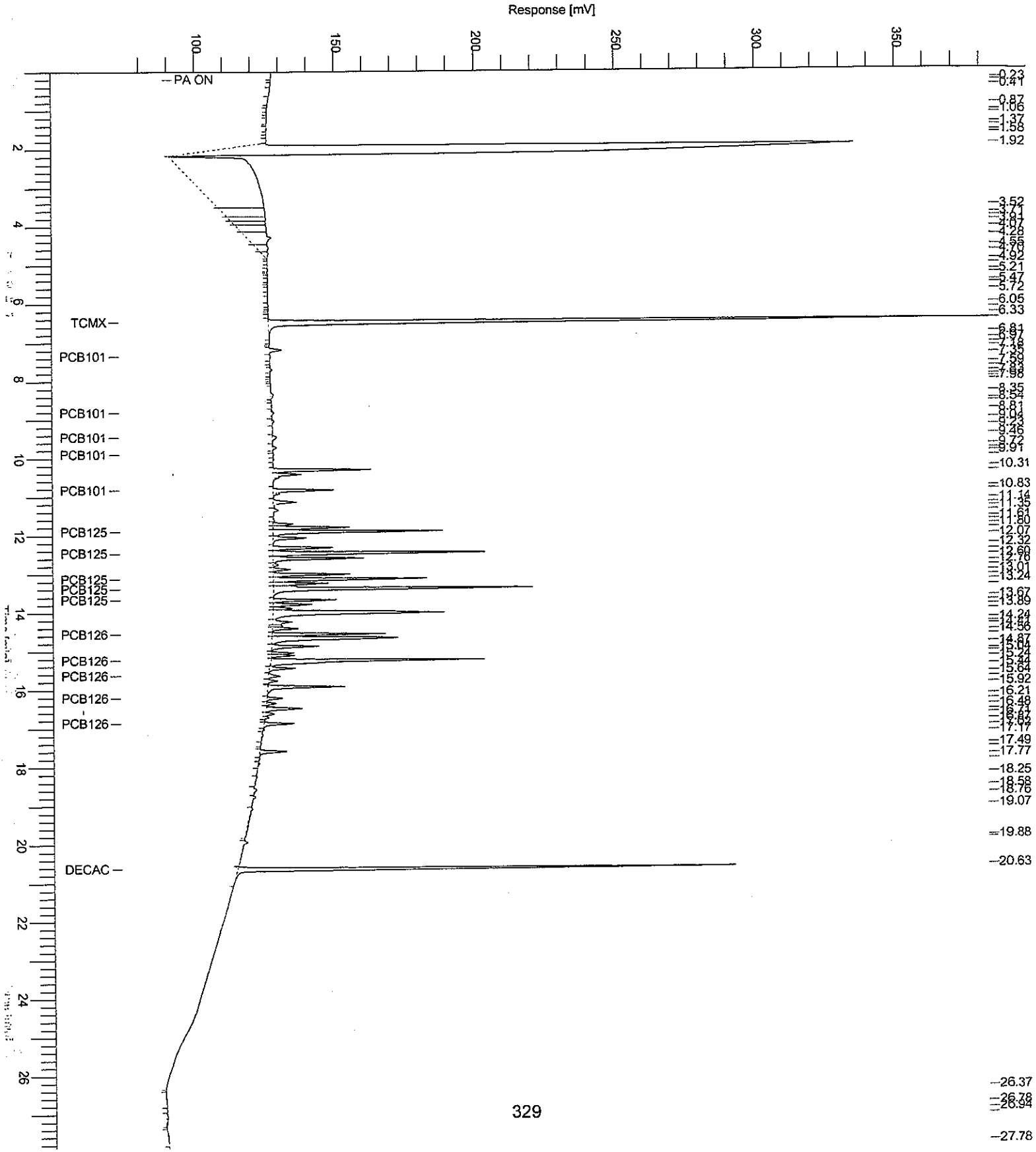
GC 06 Rtx-5

mple Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\320b004.raw
te : 11/15/04 3:42:08 PM
thod :
Time of Injection: 11/15/04 12:43:40 PM
rt Time : 4.76 min End Time : 21.85 min Low Point : 82.24 mV High Point : 293.78 mV
t Offset: 82.24 mV Plot Scale: 211.5 mV



GC 06 Rtx-5

ımple Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\CHb\320b004
ıte : 11/15/04 3:39:41 PM
ethod : gc06fsa1ul Time of Injection: 11/15/04 12:43:40 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 72.70 mV High Point : 384.06 mV
cale Factor: 1.0 Plot Offset: 72.70 mV Plot Scale: 311.4 mV



Turbochrom Method File G:\gc22\files\5460a314.mth
Printed by : analyst on: 11/9/04 11:33:27 AM
Created by : analyst on: 11/9/04 11:24:01 AM
Edited by : analyst on: 11/9/04 11:33:19 AM
Number of Times Edited : 3
Number of Times Calibrated : 173 - new 1016/1260 + AR1254 + 55
Description: gc 22

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 8.119 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

FA 11/09/04

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	7370.50	1674.03	----------	----------	1
2	5.0000	18156.50	4048.29	----------	----------	1
3	20.0000	63211.71	13747.67	----------	----------	1
4	50.0000	137653.52	28376.09	----------	----------	1
5	100.0000	259380.84	59109.15	----------	----------	1
6	150.0000	430675.66	96781.66	----------	----------	1
7	200.0000	537477.43	114124.87	----------	----------	1

Average Calibration Factor = 3054.653227 (%RSD = 14.72)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 10.173 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1262.00	237.49	----------	----------	1
2	25.0000	2956.00	598.78	----------	----------	1
3	100.0000	11127.00	2192.33	----------	----------	1
4	250.0000	24633.50	4729.58	----------	----------	1
5	500.0000	45850.00	9087.43	----------	----------	1
6	750.0000	75229.00	14592.96	----------	----------	1
7	1000.0000	93412.03	17615.74	----------	----------	1

Average Calibration Factor = 105.665910 (%RSD = 12.44)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 11.972 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	643.07	187.71	----------	----------	1
2	25.0000	1819.59	486.84	----------	----------	1
3	100.0000	6247.27	1763.45	----------	----------	1
4	250.0000	13850.20	3891.05	----------	----------	1
5	500.0000	25678.60	7375.05	----------	----------	1
6	750.0000	43051.64	12519.76	----------	----------	1
7	1000.0000	53299.16	15068.41	----------	----------	1

Average Calibration Factor = 59.574686 (%RSD = 12.53)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 12.450 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	399.70	108.85	----------	----------	1
2	25.0000	1059.58	276.85	----------	----------	1
3	100.0000	3798.25	1004.58	----------	----------	1
4	250.0000	8403.21	2262.01	----------	----------	1
5	500.0000	15650.63	4244.39	----------	----------	1
6	750.0000	26358.16	7053.96	----------	----------	1
7	1000.0000	32471.42	8640.37	----------	----------	1

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Average Calibration Factor = 36.123560 (%RSD = 11.37)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3477.43	881.81	----------	----------	1
2	25.0000	8759.89	2256.04	----------	----------	1
3	100.0000	31239.81	8133.04	----------	----------	1
4	250.0000	70523.63	17855.55	----------	----------	1
5	500.0000	129605.94	33697.87	----------	----------	1
6	750.0000	216872.98	55351.34	----------	----------	1
7	1000.0000	269278.65	67580.33	----------	----------	1

Average Calibration Factor = 301.469369 (%RSD = 12.11)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 12.882 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	762.32	229.79	----------	----------	1
2	25.0000	1825.50	577.88	----------	----------	1
3	100.0000	6207.01	2054.52	----------	----------	1
4	250.0000	14688.76	4386.09	----------	----------	1
5	500.0000	25803.43	8143.83	----------	----------	1
6	750.0000	44934.36	12998.11	----------	----------	1
7	1000.0000	55095.22	16190.98	----------	----------	1

Average Calibration Factor = 62.384533 (%RSD = 14.54)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 13.103 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	410.34	117.97	----------	----------	1
2	25.0000	1099.23	315.69	----------	----------	1
3	100.0000	3860.28	1118.16	----------	----------	1
4	250.0000	8947.96	2586.82	----------	----------	1
5	500.0000	16623.29	4847.17	----------	----------	1
6	750.0000	27299.82	8186.55	----------	----------	1
7	1000.0000	35000.81	10064.83	----------	----------	1

Average Calibration Factor = 37.720680 (%RSD = 9.90)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 13.863 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	16551.99	5032.37	----------	----------	1

Average Calibration Factor = 66.207970 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 14.516 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	28604.12	6435.97	----------	----------	1

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Average Calibration Factor = 114.416465 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 15.228 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	17870.85	5220.47	----------	----------	1

Average Calibration Factor = 71.483408 (%RSD = 0.00)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 15.533 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	29439.64	9184.85	----------	----------	1

Average Calibration Factor = 117.758562 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

PCB1260#1
Component Type : Single Peak Component
Retention Time : 15.987 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1215.45	381.26	----------	----------	1
2	25.0000	3019.54	946.80	----------	----------	1
3	100.0000	10696.24	3368.20	----------	----------	1
4	250.0000	22642.00	7253.94	----------	----------	1
5	500.0000	41167.31	12993.66	----------	----------	1
6	750.0000	68964.45	22065.49	----------	----------	1
7	1000.0000	84849.94	27044.73	----------	----------	1

Average Calibration Factor = 99.856319 (%RSD = 16.56)

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.230 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	20361.88	5867.57	----------	----------	1

Average Calibration Factor = 81.447537 (%RSD = 0.00)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 16.679 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1832.52	470.61	----------	----------	1
2	25.0000	4470.21	1146.47	----------	----------	1
3	100.0000	16154.29	4173.56	----------	----------	1
4	250.0000	34072.79	8579.15	----------	----------	1
5	500.0000	61543.05	15243.66	----------	----------	1
6	750.0000	103697.30	26040.08	----------	----------	1
7	1000.0000	127217.08	31984.86	----------	----------	1

Average Calibration Factor = 149.780134 (%RSD = 16.44)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	6394.89	1932.07	----------	----------	1
2	25.0000	16461.19	4923.61	----------	----------	1
3	100.0000	60283.92	18059.61	----------	----------	1
4	250.0000	128532.88	38075.88	----------	----------	1
5	500.0000	233328.86	68636.43	----------	----------	1
6	750.0000	397316.68	117430.43	----------	----------	1
7	1000.0000	488557.82	144329.40	----------	----------	1

Average Calibration Factor = 557.125506 (%RSD = 13.63)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 17.646 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	843.66	245.92	----------	----------	1
2	25.0000	1929.01	616.07	----------	----------	1
3	100.0000	7309.34	2279.73	----------	----------	1
4	250.0000	16091.90	5115.81	----------	----------	1
5	500.0000	29498.77	9252.37	----------	----------	1
6	750.0000	50253.35	15762.48	----------	----------	1
7	1000.0000	61553.41	19415.21	----------	----------	1

Average Calibration Factor = 69.506154 (%RSD = 13.12)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 18.271 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	877.00	271.26	----------	----------	1
2	25.0000	2215.43	687.59	----------	----------	1
3	100.0000	8321.89	2585.08	----------	----------	1
4	250.0000	17858.86	5632.97	----------	----------	1
5	500.0000	32735.63	10255.83	----------	----------	1
6	750.0000	56093.17	17761.61	----------	----------	1
7	1000.0000	69205.30	21778.01	----------	----------	1

Average Calibration Factor = 77.205574 (%RSD = 12.03)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 19.029 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1626.26	563.01	----------	----------	1
2	25.0000	4827.00	1526.68	----------	----------	1
3	100.0000	17802.16	5653.04	----------	----------	1
4	250.0000	37867.32	11494.01	----------	----------	1
5	500.0000	68384.09	20890.91	----------	----------	1
6	750.0000	118308.41	35800.76	----------	----------	1
7	1000.0000	145732.08	44106.58	----------	----------	1

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Average Calibration Factor = 160.777325 (%RSD = 12.03)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.876 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	27002.38	9759.09	----------	----------	1
4	50.0000	59494.49	20358.50	----------	----------	1
5	100.0000	107093.19	36918.54	----------	----------	1
6	150.0000	189987.73	65850.68	----------	----------	1
7	200.0000	239888.96	82173.94	----------	----------	1
1	2.0000	2794.75	1000.36	----------	----------	1
2	5.0000	7441.57	2613.86	----------	----------	1

Average Calibration Factor = 1280.380294 (%RSD = 11.07)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7370.50	1674.03	2.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18156.50	4048.29	5.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63211.71	13747.67	20.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137653.52	28376.09	50.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
259380.84	59109.15	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
430675.66	96781.66	150.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
537477.43	114124.87	200.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1262.00	237.49	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2956.00	598.78	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11127.00	2192.33	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24633.50	4729.58	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45850.00	9087.43	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75229.00	14592.96	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93412.03	17615.74	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
643.07	187.71	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1819.59	486.84	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6247.27	1763.45	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13850.20	3891.05	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25678.60	7375.05	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43051.64	12519.76	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53299.16	15068.41	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#3
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
399.70	108.85	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1059.58	276.85	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3798.25	1004.58	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8403.21	2262.01	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15650.63	4244.39	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26358.16	7053.96	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32471.42	8640.37	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3477.43	881.81	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8759.89	2256.04	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31239.81	8133.04	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70523.63	17855.55	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129605.94	33697.87	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216872.98	55351.34	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
269278.65	67580.33	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
762.32	229.79	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1825.50	577.88	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6207.01	2054.52	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14688.76	4386.09	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25803.43	8143.83	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44934.36	12998.11	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55095.22	16190.98	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#5
Level : 1

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
410.34	117.97	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1099.23	315.69	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3860.28	1118.16	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8947.96	2586.82	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16623.29	4847.17	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27299.82	8186.55	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35000.81	10064.83	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16551.99	5032.37	250.0000	----------	----------	11/9/04	11:32:53 AM	G:\gc22\CHA\314a020p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28604.12	6435.97	250.0000	----------	----------	11/9/04	11:32:53 AM	G:\gc22\CHA\314a020p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17870.85	5220.47	250.0000	----------	----------	11/9/04	11:32:53 AM	G:\gc22\CHA\314a020p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29439.64	9184.85	250.0000	----------	----------	11/9/04	11:32:53 AM	G:\gc22\CHA\314a020p.rst

Component : Aroclor-1254
This component has no calibration levels

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1215.45	381.26	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3019.54	946.80	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10696.24	3368.20	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22642.00	7253.94	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41167.31	12993.66	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68964.45	22065.49	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84849.94	27044.73	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20361.88	5867.57	250.0000	----------	----------	11/9/04	11:32:53 AM	G:\gc22\CHA\314a020p.rst

Component : PCB1260#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1832.52	470.61	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4470.21	1146.47	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16154.29	4173.56	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34072.79	8579.15	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61543.05	15243.66	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103697.30	26040.08	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127217.08	31984.86	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6394.89	1932.07	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16461.19	4923.61	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60283.92	18059.61	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128532.88	38075.88	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
233328.86	68636.43	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
397316.68	117430.43	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
488557.82	144329.40	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
843.66	245.92	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1929.01	616.07	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7309.34	2279.73	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16091.90	5115.81	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29498.77	9252.37	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50253.35	15762.48	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61553.41	19415.21	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
877.00	271.26	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2215.43	687.59	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8321.89	2585.08	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17858.86	5632.97	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32735.63	10255.83	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56093.17	17761.61	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69205.30	21778.01	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1260#5
Level : 1

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1626.26	563.01	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4827.00	1526.68	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17802.16	5653.04	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37867.32	11494.01	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68384.09	20890.91	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118308.41	35800.76	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
145732.08	44106.58	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27002.38	9759.09	20.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59494.49	20358.50	50.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107093.19	36918.54	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
189987.73	65850.68	150.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
239888.96	82173.94	200.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Level : 1

11/9/04 11:33:27 AM Method: G:\gc22\files\5460a314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2794.75	1000.36	2.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7441.57	2613.86	5.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Turbochrom Method File G:\gc22\files\5460b314.mth
Printed by : analyst on: 11/9/04 11:32:05 AM
Created by : analyst on: 11/9/04 11:14:04 AM
Edited by : analyst on: 11/9/04 11:31:59 AM
Number of Times Edited : 1
Number of Times Calibrated : 193
Description: gc 22

1016, 1260, 1254 +SS /mcw 11/9/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 8.815 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

FA 11/09/04

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	65801.59	14321.39	----------	----------	1
4	50.0000	135822.25	27670.77	----------	----------	1
5	100.0000	255809.23	53641.92	----------	----------	1
6	150.0000	415710.00	89127.22	----------	----------	1
7	200.0000	518418.10	109385.81	----------	----------	1
1	2.0000	7342.36	1619.74	----------	----------	1
2	5.0000	15546.00	3272.82	----------	----------	1

Average Calibration Factor = 2958.355229 (%RSD = 14.00)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 10.798 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	615.74	221.48	----------	----------	1
2	25.0000	1230.96	430.97	----------	----------	1
3	100.0000	5306.13	1952.76	----------	----------	1
4	250.0000	12507.72	3885.30	----------	----------	1
5	500.0000	21866.75	7332.60	----------	----------	1
6	750.0000	38011.75	11877.77	----------	----------	1
7	1000.0000	46711.88	14405.28	----------	----------	1

Average Calibration Factor = 50.718858 (%RSD = 11.12)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 11.299 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	947.25	241.95	----------	----------	1
2	25.0000	1898.12	471.37	----------	----------	1
3	100.0000	8016.94	2105.77	----------	----------	1
4	250.0000	16365.19	4169.32	----------	----------	1
5	500.0000	30909.00	7897.52	----------	----------	1
6	750.0000	49487.52	12441.14	----------	----------	1
7	1000.0000	61367.00	15454.69	----------	----------	1

Average Calibration Factor = 72.206913 (%RSD = 16.90)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 11.972 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2693.37	506.60	----------	----------	1
2	25.0000	5536.00	1068.90	----------	----------	1
3	100.0000	23399.00	4597.46	----------	----------	1
4	250.0000	47980.00	9167.69	----------	----------	1
5	500.0000	88655.50	17018.96	----------	----------	1
6	750.0000	141010.00	26415.06	----------	----------	1
7	1000.0000	175276.50	33439.08	----------	----------	1

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Average Calibration Factor = 208.183964 (%RSD = 16.74)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 12.444 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	759.35	214.98	----------	----------	1
2	25.0000	1382.50	394.21	----------	----------	1
3	100.0000	6615.06	1851.92	----------	----------	1
4	250.0000	13803.95	3778.94	----------	----------	1
5	500.0000	26032.83	7007.85	----------	----------	1
6	750.0000	42050.93	11540.85	----------	----------	1
7	1000.0000	52409.41	14219.62	----------	----------	1

Average Calibration Factor = 59.020675 (%RSD = 14.93)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5975.71	1386.44	----------	----------	1
2	25.0000	11945.58	2781.05	----------	----------	1
3	100.0000	51023.63	12294.62	----------	----------	1
4	250.0000	106459.86	24643.93	----------	----------	1
5	500.0000	197093.08	45912.50	----------	----------	1
6	750.0000	317793.20	72995.57	----------	----------	1
7	1000.0000	394617.29	90844.31	----------	----------	1

Average Calibration Factor = 460.571100 (%RSD = 16.07)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 13.723 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	960.00	201.43	----------	----------	1
2	25.0000	1898.00	415.60	----------	----------	1
3	100.0000	7686.50	1786.71	----------	----------	1
4	250.0000	15803.00	3642.68	----------	----------	1
5	500.0000	29629.00	6655.56	----------	----------	1
6	750.0000	47233.00	10720.75	----------	----------	1
7	1000.0000	58852.50	13325.64	----------	----------	1

Average Calibration Factor = 70.440690 (%RSD = 19.15)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 14.506 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	19248.36	5670.49	----------	----------	1

Average Calibration Factor = 76.993442 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 15.068 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	26313.12	8424.47	----------	----------	1

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Average Calibration Factor = 105.252471 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 15.770 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	18329.56	5662.29	----------	----------	1

Average Calibration Factor = 73.318227 (%RSD = 0.00)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 16.027 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	32049.60	9428.08	----------	----------	1

Average Calibration Factor = 128.198388 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.329 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	6541.11	2031.82	----------	----------	1

Average Calibration Factor = 26.164426 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 16.624 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1488.72	476.64	----------	----------	1
2	25.0000	3257.83	991.52	----------	----------	1
3	100.0000	13266.00	3951.06	----------	----------	1
4	250.0000	26191.50	8134.47	----------	----------	1
5	500.0000	47614.00	14475.07	----------	----------	1
6	750.0000	73670.00	22432.24	----------	----------	1
7	1000.0000	91434.00	27677.40	----------	----------	1

Average Calibration Factor = 114.499927 (%RSD = 19.61)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	7334.10	2460.78	----------	----------	1
2	25.0000	15199.54	4995.91	----------	----------	1
3	100.0000	67100.21	21569.35	----------	----------	1
4	250.0000	132013.48	42385.43	----------	----------	1
5	500.0000	234742.72	74711.91	----------	----------	1
6	750.0000	367529.70	116608.56	----------	----------	1
7	1000.0000	456786.87	143999.89	----------	----------	1

Average Calibration Factor = 565.251323 (%RSD = 19.01)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 17.210 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1503.02	509.37	----------	----------	1
2	25.0000	3245.00	1067.62	----------	----------	1
3	100.0000	13942.22	4605.50	----------	----------	1
4	250.0000	27617.80	9016.54	----------	----------	1
5	500.0000	49225.78	15715.73	----------	----------	1
6	750.0000	75946.13	24732.47	----------	----------	1
7	1000.0000	94173.67	30510.57	----------	----------	1

Average Calibration Factor = 117.697467 (%RSD = 18.77)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 18.325 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	957.75	319.71	----------	----------	1
2	25.0000	1957.36	654.52	----------	----------	1
3	100.0000	8849.08	2939.76	----------	----------	1
4	250.0000	17647.96	5804.99	----------	----------	1
5	500.0000	31027.71	10107.47	----------	----------	1
6	750.0000	48791.57	15849.50	----------	----------	1
7	1000.0000	60072.12	19330.58	----------	----------	1

Average Calibration Factor = 74.333549 (%RSD = 18.46)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 18.922 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1074.26	358.67	----------	----------	1
2	25.0000	2155.67	747.43	----------	----------	1
3	100.0000	9636.00	3112.33	----------	----------	1
4	250.0000	19187.00	6473.56	----------	----------	1
5	500.0000	34605.00	11513.88	----------	----------	1
6	750.0000	53442.00	17772.84	----------	----------	1
7	1000.0000	66393.00	22025.13	----------	----------	1

Average Calibration Factor = 81.945651 (%RSD = 18.78)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 19.579 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2310.35	796.38	----------	----------	1
2	25.0000	4583.69	1534.82	----------	----------	1
3	100.0000	21406.91	6960.70	----------	----------	1
4	250.0000	41369.22	12955.86	----------	----------	1
5	500.0000	72270.23	22899.75	----------	----------	1
6	750.0000	115680.00	35821.51	----------	----------	1
7	1000.0000	144714.08	44456.20	----------	----------	1

355

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Average Calibration Factor = 176.774728 (%RSD = 19.43)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.785 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	35467.00	12275.79	----------	----------	1
4	50.0000	67268.00	23088.60	----------	----------	1
5	100.0000	121614.50	41747.43	----------	----------	1
2	5.0000	8600.88	3035.05	----------	----------	1
6	150.0000	184999.00	62962.29	----------	----------	1
7	200.0000	235474.00	81011.41	----------	----------	1

Average Calibration Factor = 1410.954448 (%RSD = 18.89)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65801.59	14321.39	20.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
135822.25	27670.77	50.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255809.23	53641.92	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
415710.00	89127.22	150.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
518418.10	109385.81	200.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7342.36	1619.74	2.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15546.00	3272.82	5.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
615.74	221.48	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1230.96	430.97	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5306.13	1952.76	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12507.72	3885.30	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21866.75	7332.60	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38011.75	11877.77	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46711.88	14405.28	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
947.25	241.95	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1898.12	471.37	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8016.94	2105.77	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16365.19	4169.32	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30909.00	7897.52	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49487.52	12441.14	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61367.00	15454.69	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2693.37	506.60	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5536.00	1068.90	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23399.00	4597.46	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47980.00	9167.69	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
88655.50	17018.96	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
141010.00	26415.06	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175276.50	33439.08	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
759.35	214.98	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1382.50	394.21	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6615.06	1851.92	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13803.95	3778.94	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26032.83	7007.85	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42050.93	11540.85	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52409.41	14219.62	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5975.71	1386.44	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11945.58	2781.05	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51023.63	12294.62	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106459.86	24643.93	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
197093.08	45912.50	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
317793.20	72995.57	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
394617.29	90844.31	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#5
Level : 1

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
960.00	201.43	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1898.00	415.60	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7686.50	1786.71	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15803.00	3642.68	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29629.00	6655.56	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47233.00	10720.75	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58852.50	13325.64	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19248.36	5670.49	250.0000	----------	----------	11/9/04	11:31:52 AM	G:\gc22\CHB\314b020.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26313.12	8424.47	250.0000	----------	----------	11/9/04	11:31:52 AM	G:\gc22\CHB\314b020.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18329.56	5662.29	250.0000	----------	----------	11/9/04	11:31:52 AM	G:\gc22\CHB\314b020.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32049.60	9428.08	250.0000	----------	----------	11/9/04	11:31:52 AM	G:\gc22\CHB\314b020.rst

Component : Aroclor-1254
This component has no calibration levels

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6541.11	2031.82	250.0000	----------	----------	11/9/04	11:31:52 AM	G:\gc22\CHB\314b020.rst

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1488.72	476.64	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3257.83	991.52	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13266.00	3951.06	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26191.50	8134.47	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47614.00	14475.07	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73670.00	22432.24	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91434.00	27677.40	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7334.10	2460.78	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15199.54	4995.91	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67100.21	21569.35	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132013.48	42385.43	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234742.72	74711.91	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
367529.70	116608.56	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
456786.87	143999.89	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1503.02	509.37	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3245.00	1067.62	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13942.22	4605.50	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27617.80	9016.54	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49225.78	15715.73	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75946.13	24732.47	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94173.67	30510.57	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
957.75	319.71	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1957.36	654.52	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8849.08	2939.76	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17647.96	5804.99	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31027.71	10107.47	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48791.57	15849.50	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60072.12	19330.58	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1074.26	358.67	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2155.67	747.43	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9636.00	3112.33	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19187.00	6473.56	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34605.00	11513.88	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53442.00	17772.84	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66393.00	22025.13	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#5
Level : 1

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2310.35	796.38	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4583.69	1534.82	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21406.91	6960.70	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41369.22	12955.86	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72270.23	22899.75	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115680.00	35821.51	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
144714.08	44456.20	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : Decachlorobiphenyl
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35467.00	12275.79	20.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67268.00	23088.60	50.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
121614.50	41747.43	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8600.88	3035.05	5.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184999.00	62962.29	150.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

11/9/04 11:32:05 AM Method: G:\gc22\files\5460b314.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
235474.00	81011.41	200.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: mar 11/9/04
Calnum: 254452018001 Name: Type: (normal) Date: 08-NOV-2004 21:38 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	314_009	254452018009	pcb10_2	08-NOV-2004 21:38	04WS1786
2	314_010	254452018010	pcb25_5	08-NOV-2004 22:05	04WS1787
3	314_011	254452018011	pcb100_20	08-NOV-2004 22:33	04WS1788
4	314_012	254452018012	pcb250_50	08-NOV-2004 23:01	04WS1789
5	314_013	254452018013	pcb500_100	08-NOV-2004 23:28	04WS1790
6	314_014	254452018014	pcb750_150	08-NOV-2004 23:56	04WS1791
7	314_015	254452018015	pcb1k_200	09-NOV-2004 00:24	04WS1792

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	126.20	118.24	111.27	98.534	91.700	100.31	93.412	AVRG	R		0.009464		pg	105.67	12	.99	20	
Aroclor-1016 Peak # 2	A	64.307	72.784	62.473	55.401	51.357	57.402	53.299	AVRG	R		0.016786		pg	59.575	13	.99	20	
Aroclor-1016 Peak # 3	A	39.970	42.383	37.983	33.613	31.301	35.144	32.471	AVRG	R		0.027683		pg	36.124	11	.99	20	
Aroclor-1016 Peak # 4	A	76.232	73.020	62.070	58.755	51.607	59.912	55.095	AVRG	R		0.016030		pg	62.385	15	.99	20	
Aroclor-1016 Peak # 5	A	41.034	43.969	38.603	35.792	33.247	36.400	35.001	AVRG	R		0.026511		pg	37.721	10	.99	20	
Aroclor-1260 Peak # 1	A	121.55	120.78	106.96	90.568	82.335	91.953	84.850	AVRG	R		0.010014		pg	99.856	17	.99	20	
Aroclor-1260 Peak # 2	A	183.25	178.81	161.54	136.29	123.09	138.26	127.22	AVRG	R		0.006676		pg	149.78	16	.99	20	
Aroclor-1260 Peak # 3	A	84.366	77.160	73.093	64.368	58.998	67.004	61.553	AVRG	R		0.014387		pg	69.506	13	.99	20	
Aroclor-1260 Peak # 4	A	87.700	88.617	83.219	71.435	65.471	74.791	69.205	AVRG	R		0.012952		pg	77.206	12	.99	20	
Aroclor-1260 Peak # 5	A	162.63	193.08	178.02	151.47	136.77	157.74	145.73	AVRG	R		0.006220		pg	160.78	12	.99	20	
TCMX	A	3685.3	3631.3	3160.6	2753.1	2593.8	2871.2	2687.4	AVRG	R		3.274E-4		pg	3054.7	15	.99	20	
Decachlorobiphenyl	A	1397.4	1488.3	1350.1	1189.9	1070.9	1266.6	1199.4	AVRG	R		7.810E-4		pg	1280.4	11	.99	20	
Aroclor-1016 Peak # 1	B	61.574	49.238	53.061	50.031	43.734	50.682	46.712	AVRG	R		0.019717		pg	50.719	11	.99	20	
Aroclor-1016 Peak # 2	B	94.725	75.925	80.169	65.461	61.818	65.983	61.367	AVRG	R		0.013849		pg	72.207	17	.99	20	
Aroclor-1016 Peak # 3	B	269.34	221.44	233.99	191.92	177.31	188.01	175.28	AVRG	R		0.004803		pg	208.18	17	.99	20	
Aroclor-1016 Peak # 4	B	75.935	55.300	66.151	55.216	52.066	56.068	52.409	AVRG	R		0.016943		pg	59.021	15	.99	20	
Aroclor-1016 Peak # 5	B	96.000	75.920	76.865	63.212	59.258	62.977	58.853	AVRG	R		0.014196		pg	70.441	19	.99	20	
Aroclor-1260 Peak # 1	B	148.87	130.31	132.66	104.77	95.228	98.227	91.434	AVRG	R		0.008734		pg	114.50	20	.99	20	
Aroclor-1260 Peak # 2	B	150.30	129.80	139.42	110.47	98.452	101.26	94.174	AVRG	R		0.008496		pg	117.70	19	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstrument: GC22 Gas Chromatograph #22 ECD Reviewed By:
alnum: 254452018001 Name: Type: (normal) Date: 08-NOV-2004 21:38 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2	MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	95.775	78.294	88.491	70.592	62.055	65.055	60.072	AVRG	R		0.013453		pg	74.334	18	—	.99	20	
Aroclor-1260 Peak # 4	B	107.43	86.227	96.360	76.748	69.210	71.256	66.393	AVRG	R		0.012203		pg	81.946	19	—	.99	20	
Aroclor-1260 Peak # 5	B	231.04	183.35	214.07	165.48	144.54	154.24	144.71	AVRG	R		0.005657		pg	176.77	19	—	.99	20	
TCMX	B	3671.2	3109.2	3290.1	2716.4	2558.1	2771.4	2592.1	AVRG	R		3.380E-4		pg	2958.4	14	—	.99	20	
Decachlorobiphenyl	B		1720.2	1773.4	1345.4	1216.1	1233.3	1177.4	AVRG	R		7.087E-4		pg	1411.0	19	—	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 11/9/04 9:01:39 AM
Data Acquisition Time : 11/8/04 9:38:26 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a009p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.120	7370.50	2.3383	1.000	1	2.34	0.47
Aroclor-1016	10.177	3477.43	11.5036	1.000	1	11.50	2.30
Aroclor-1254	13.865	2256.23	0.0023	1.000	1	0.00	0.00
Aroclor-1260	19.034	6394.89	10.5295	1.000	1	10.53	2.11
Decachlorobiphenyl	21.882	2794.75	1.9091	1.000	1	1.91	0.38
		22293.81	26.2827			26.28	5.26

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.177	1262.00	12.0937	1.000	1	12.09	2.42
PCB1016#2	11.974	643.07	10.7652	1.000	1	10.77	2.15
PCB1016#3	12.454	399.70	10.9448	1.000	1	10.94	2.19
PCB1016#4	12.885	762.32	11.9333	1.000	1	11.93	2.39
PCB1016#5	13.107	410.34	10.8556	1.000	1	10.86	2.17
		3477.43	56.5925			56.59	11.32

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.865	533.17	6.8269	1.000	1	6.83	1.37
PCB1254#2	14.525	488.57	3.5955	1.000	1	3.60	0.72
PCB1254#3	15.221	401.86	4.6851	1.000	1	4.69	0.94
PCB1254#4	15.640	542.08	3.7963	1.000	1	3.80	0.76
PCB1254#5	16.251	290.55	2.8515	1.000	1	2.85	0.57
		2256.23	21.7553			21.76	4.35

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11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.990	1215.45	11.4205	1.000	1	11.42	2.28
PCB1260#2	16.684	1832.52	11.5238	1.000	1	11.52	2.30
PCB1260#3	17.656	843.66	11.1309	1.000	1	11.13	2.23
PCB1260#4	18.280	877.00	10.2994	1.000	1	10.30	2.06
PCB1260#5	19.034	1626.26	8.9880	1.000	1	8.99	1.80
		6394.89	53.3626			53.36	10.67

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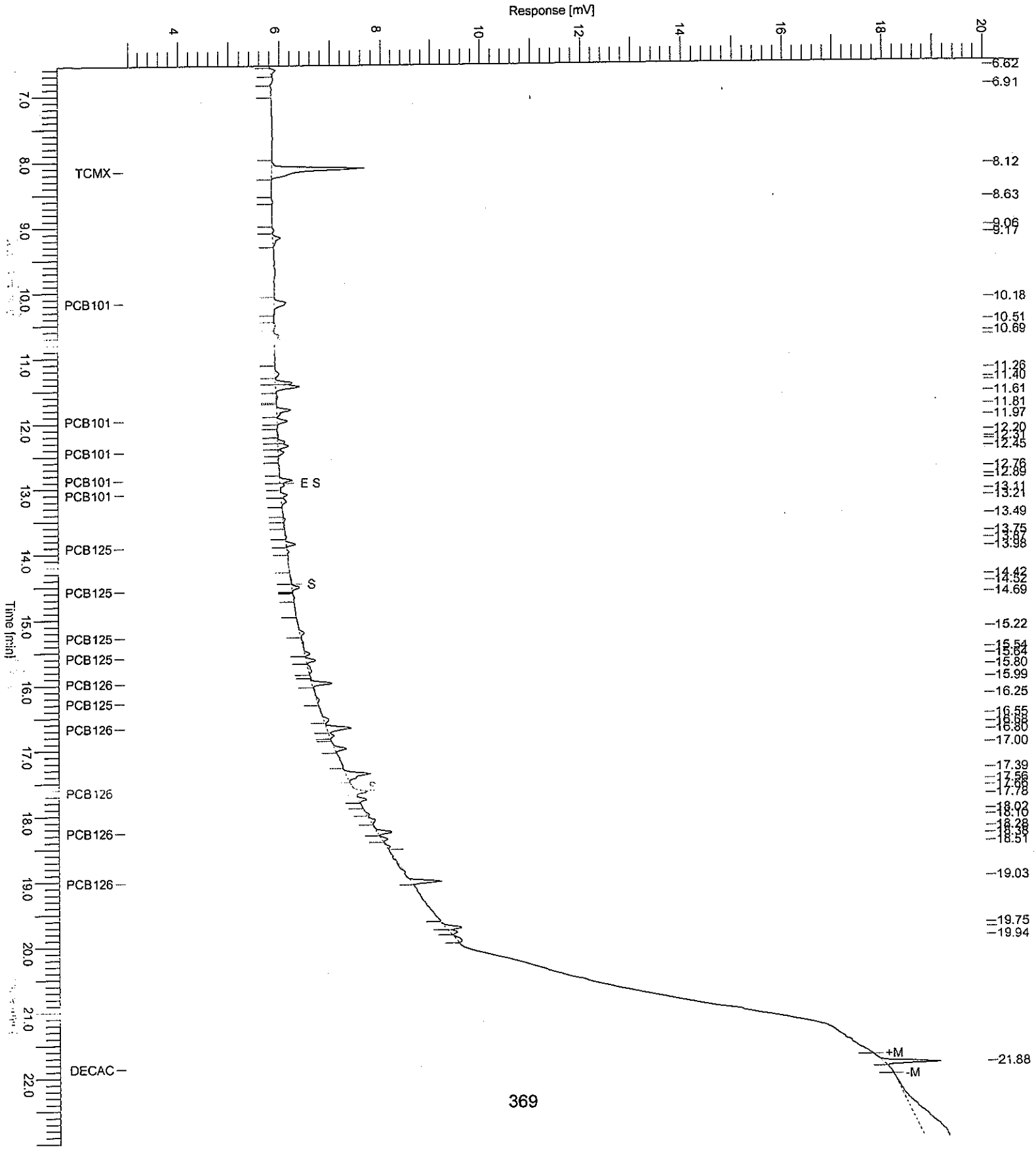
Report stored in ASCII file: G:\gc22\CHA\314a009p.TX0

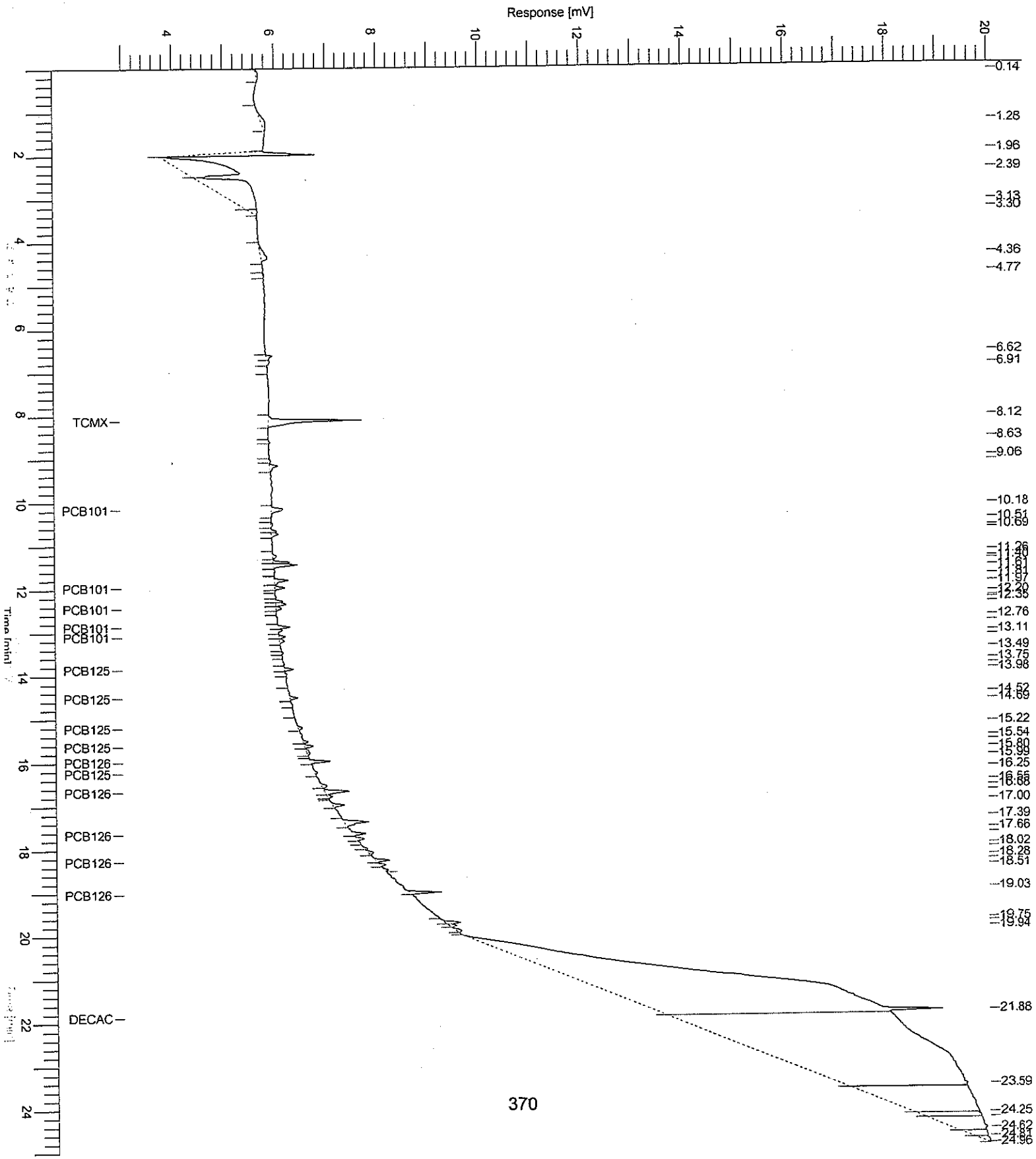
GC22 Rtx-CLPesticides

ample Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
leName G:\gc22\CHa\314a009.raw
ate : 11/9/04 9:01:45 AM
lethod :
Time of Injection: 11/8/04 9:38:26 PM
tart Time : 6.55 min End Time : 23.02 min Low Point : 2.90 mV High Point : 20.01 mV
lot Offset: 2.90 mV Plot Scale: 17.1 mV



GC22 Rtx-CLPesticides

mple Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l
eName : G:\gc22\CHa\314a009.raw
te : 11/9/04 8:58:22 AM
thod : gc22ins Time of Injection: 11/8/04 9:38:26 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : 2.94 mV High Point : 20.01 mV
ale Factor: 1.0 Plot Offset: 2.94 mV Plot Scale: 17.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1786,pcb10_2
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 11/9/04 10:00:49 AM
Data Acquisition Time : 11/8/04 9:38:26 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b009p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.815	7342.36	1.8932	1.000	1	1.89	0.38
Aroclor-1016	11.976	5975.71	10.9531	1.000	1	10.95	2.19
Aroclor-1254	16.048	0.00	0.0000	1.000	1	0.00	0.00
Aroclor-1260	19.579	7334.10	11.8699	1.000	1	11.87	2.37
Decachlorobiphenyl	22.784	4258.08	2.9146	1.000	1	2.91	0.58
		24910.24	27.6308			27.63	5.53

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.804	615.74	9.3402	1.000	1	9.34	1.87
PCB1016#2	11.298	947.25	11.1493	1.000	1	11.15	2.23
PCB1016#3	11.976	2693.37	10.9122	1.000	1	10.91	2.18
PCB1016#4	12.446	759.35	10.8740	1.000	1	10.87	2.17
PCB1016#5	13.724	960.00	12.3023	1.000	1	12.30	2.46
		5975.71	54.5781			54.58	10.92

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.512	0.00	0.0000	1.000	1	0.00	0.00
PCB1254#2	15.070	0.00	0.0000	1.000	1	0.00	0.00
PCB1254#3	15.772	0.00	0.0000	1.000	1	0.00	0.00
PCB1254#4	16.029	0.00	0.0000	1.000	1	0.00	0.00
PCB1254#5	16.332	0.00	0.0000	1.000	1	0.00	0.00
		0.00	0.0000			0.00	0.00

FA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.620	1488.72	11.9252	1.000	1	11.93	2.39
PCB1260#2	17.211	1503.02	11.7214	1.000	1	11.72	2.34
PCB1260#3	18.321	957.75	11.8617	1.000	1	11.86	2.37
PCB1260#4	18.919	1074.26	11.8176	1.000	1	11.82	2.36
PCB1260#5	19.579	2310.35	11.9607	1.000	1	11.96	2.39
		7334.10	59.2866			59.29	11.86

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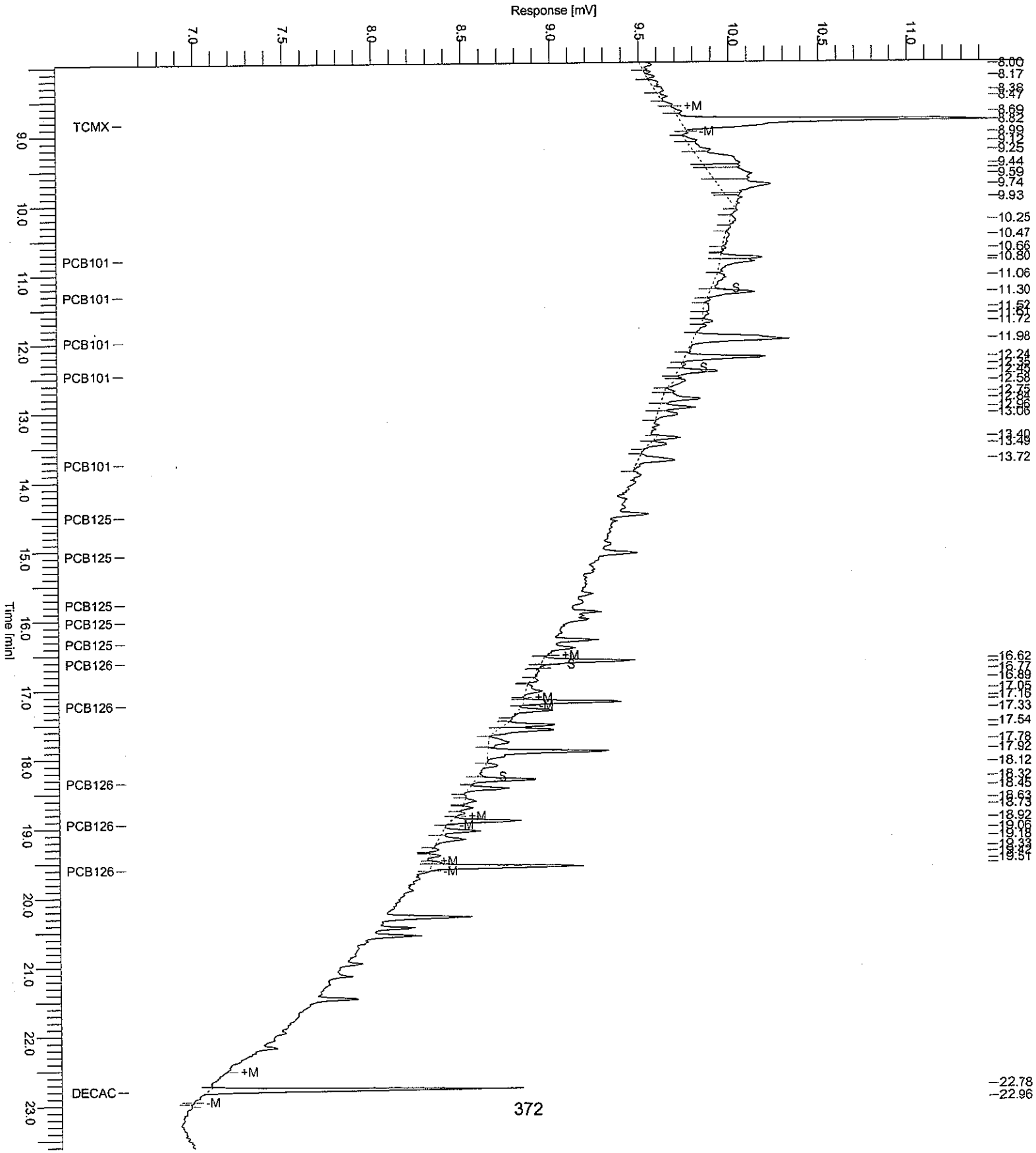
Report stored in ASCII file: G:\gc22\CHB\314b009p.TX0

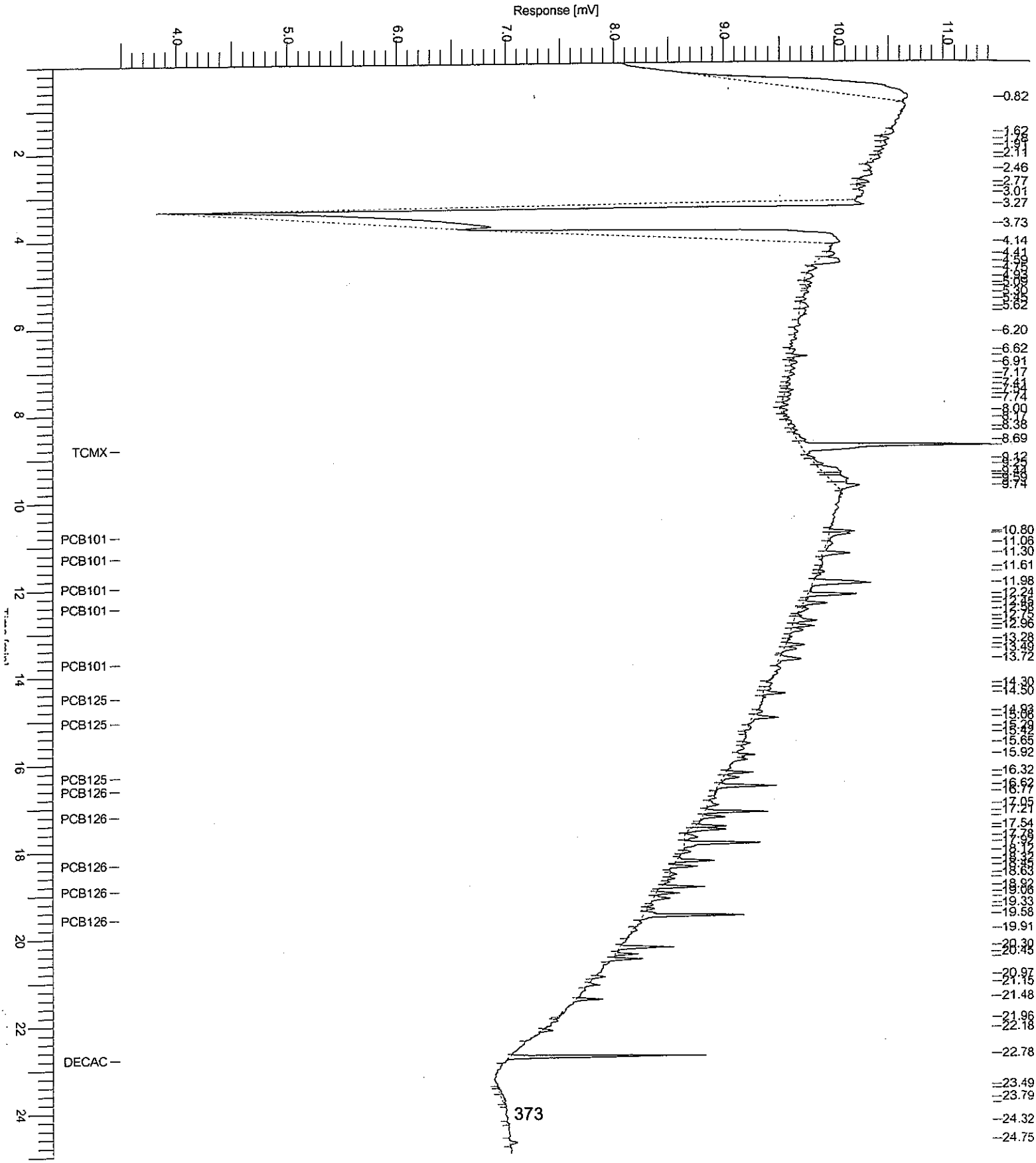
GC22 Rtx-CLPesticides II

ımple Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHb\314b009.raw
ıte : 11/9/04 10:00:55 AM
ethod :
Time of Injection: 11/8/04 9:38:26 PM
art Time : 7.97 min End Time : 23.62 min Low Point : 6.61 mV High Point : 11.45 mV
ot Offset: 6.61 mV Plot Scale: 4.8 mV



GC22 Rtx-CLPesticides II

mple Name : ical,04ws1786,pcb10_2 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHb\314b009
ıte : 11/9/04 9:19:51 AM
ethod : gc22ins Time of Injection: 11/8/04 9:38:26 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 3.49 mV High Point : 11.45 mV
ale Factor: 1.0 Plot Offset: 3.49 mV Plot Scale: 8.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 11/9/04 9:04:12 AM
Data Acquisition Time : 11/8/04 10:05:59 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a010p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.120	18156.50	5.7601	1.000	1	5.76	1.15
Aroclor-1016	10.176	8759.89	28.9785	1.000	1	28.98	5.80
Aroclor-1254	15.639	5376.29	0.0054	1.000	1	0.01	0.00
Aroclor-1260	19.033	16461.19	27.1042	1.000	1	27.10	5.42
Decachlorobiphenyl	21.881	7441.57	5.0833	1.000	1	5.08	1.02
		56195.44	66.9314			66.93	13.39

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.176	2956.00	28.3271	1.000	1	28.33	5.67
PCB1016#2	11.973	1819.59	30.4605	1.000	1	30.46	6.09
PCB1016#3	12.453	1059.58	29.0141	1.000	1	29.01	5.80
PCB1016#4	12.884	1825.50	28.5761	1.000	1	28.58	5.72
PCB1016#5	13.105	1099.23	29.0802	1.000	1	29.08	5.82
		8759.89	145.4582			145.46	29.09

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.865	1182.72	15.1439	1.000	1	15.14	3.03
PCB1254#2	14.521	1424.60	10.4838	1.000	1	10.48	2.10
PCB1254#3	15.217	912.04	10.6329	1.000	1	10.63	2.13
PCB1254#4	15.639	1438.47	10.0740	1.000	1	10.07	2.01
PCB1254#5	16.238	418.46	4.1068	1.000	1	4.11	0.82
		5376.29	50.4415			50.44	10.09

FA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.988	3019.54	28.3719	1.000	1	28.37	5.67
PCB1260#2	16.683	4470.21	28.1108	1.000	1	28.11	5.62
PCB1260#3	17.655	1929.01	25.4506	1.000	1	25.45	5.09
PCB1260#4	18.272	2215.43	26.0177	1.000	1	26.02	5.20
PCB1260#5	19.033	4827.00	26.6778	1.000	1	26.68	5.34
		16461.19	134.6288			134.63	26.93

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Report stored in ASCII file: G:\gc22\CHA\314a010p.TX0

GC22 Rtx-CLPesticides

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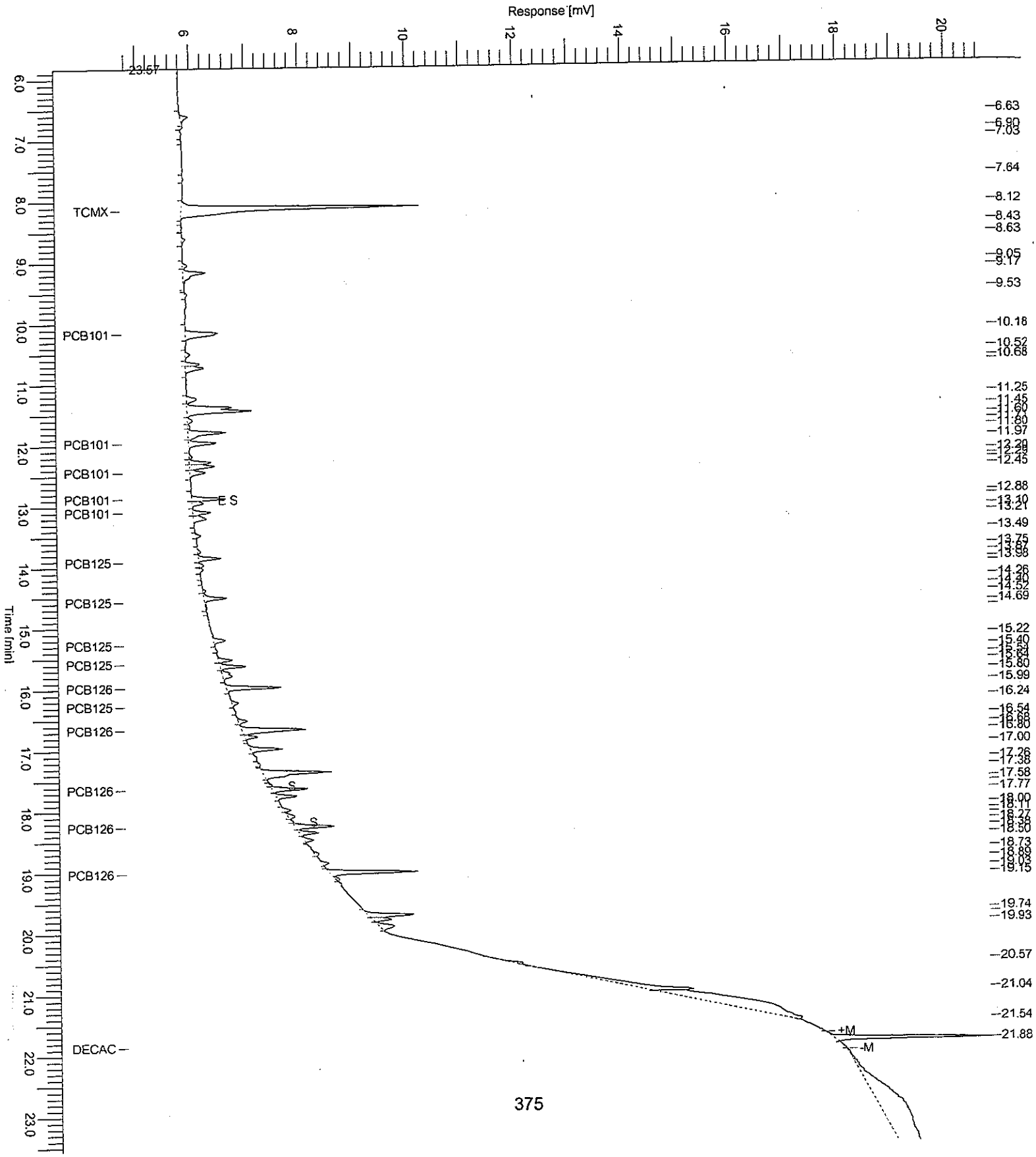
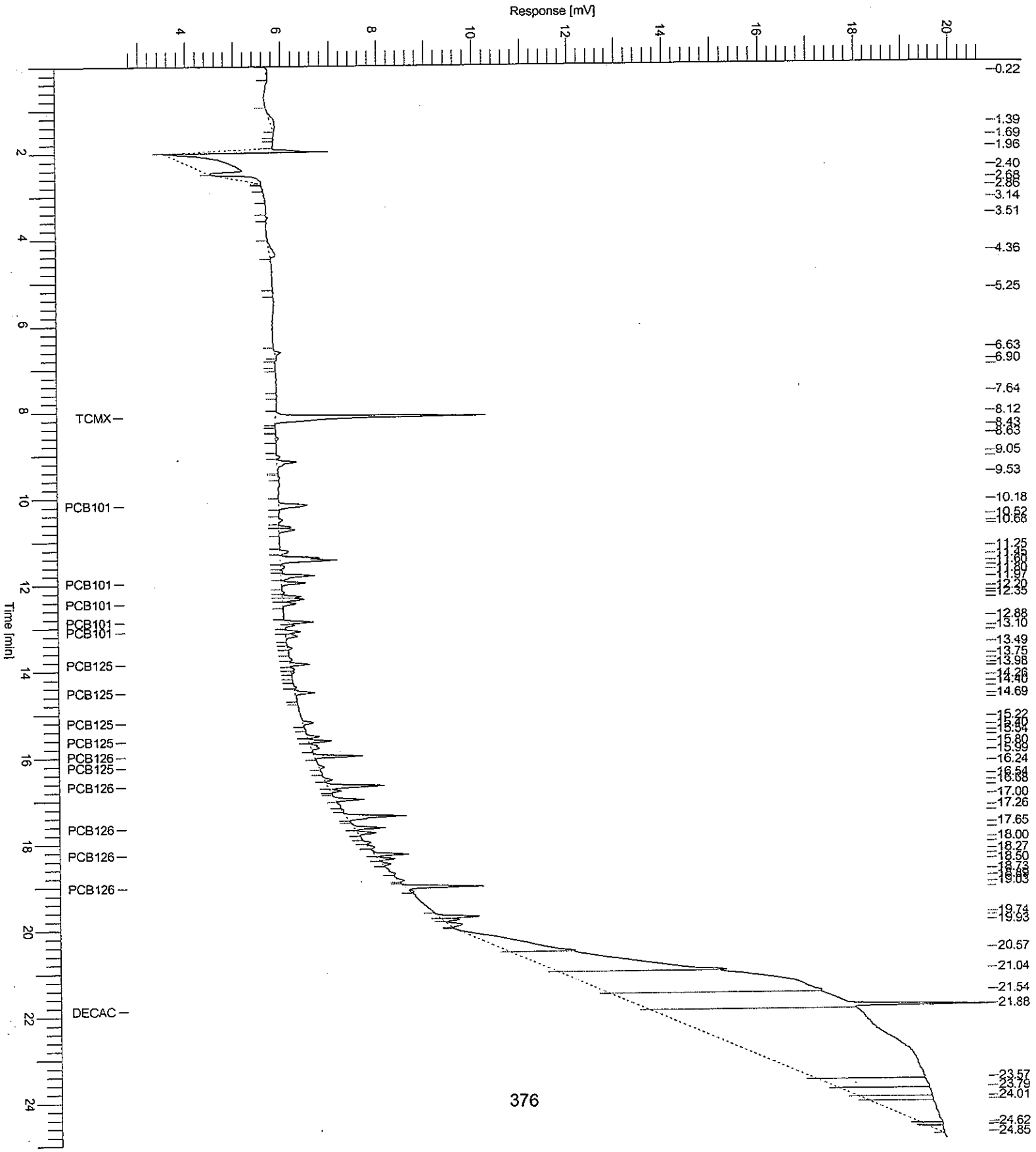
ıte : 11/9/04 9:04:18 AM
ethod :
Time of Injection: 11/8/04 10:05:59 PM
art Time : 5.83 min End Time : 23.57 min Low Point : 4.73 mV High Point : 20.80 mV
ot Offset: 4.73 mV Plot Scale: 16.1 mV



GC22 Rtx-CLPesticides

mple Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHa\314a010.raw
te : 11/9/04 8:58:29 AM
thod : gc22ins Time of Injection: 11/8/04 10:05:59 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.66 mV High Point : 20.80 mV
ale Factor: 1.0 Plot Offset: 2.66 mV Plot Scale: 18.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1787,pcb25_5
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 11/9/04 9:25:51 AM
Data Acquisition Time : 11/8/04 10:05:59 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b010p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.816	15546.00	4.0084	1.000	1	4.01	0.80
Aroclor-1016	11.975	11945.58	21.8956	1.000	1	21.90	4.38
Aroclor-1254	16.317	4538.73	0.0045	1.000	1	0.00	0.00
Aroclor-1260	19.579	15199.54	24.5997	1.000	1	24.60	4.92
Decachlorobiphenyl	22.783	8600.88	5.8871	1.000	1	5.89	1.18
		55830.73	56.3954			56.40	11.28

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.804	1230.96	18.6727	1.000	1	18.67	3.73
PCB1016#2	11.299	1898.12	22.3411	1.000	1	22.34	4.47
PCB1016#3	11.975	5536.00	22.4292	1.000	1	22.43	4.49
PCB1016#4	12.442	1382.50	19.7976	1.000	1	19.80	3.96
PCB1016#5	13.720	1898.00	24.3226	1.000	1	24.32	4.86
		11945.58	107.5632			107.56	21.51

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.505	1483.11	14.1352	1.000	1	14.14	2.83
PCB1254#2	15.067	1224.51	8.6415	1.000	1	8.64	1.73
PCB1254#3	15.768	365.59	3.6872	1.000	1	3.69	0.74
PCB1254#4	15.975	205.50	1.1839	1.000	1	1.18	0.24
PCB1254#5	16.317	1260.02	36.2326	1.000	1	36.23	7.25
		4538.73	63.8803			63.88	12.78

FA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.619	3257.83	26.0964	1.000	1	26.10	5.22
PCB1260#2	17.205	3245.00	25.3064	1.000	1	25.31	5.06
PCB1260#3	18.322	1957.36	24.2418	1.000	1	24.24	4.85
PCB1260#4	18.918	2155.67	23.7138	1.000	1	23.71	4.74
PCB1260#5	19.579	4583.69	23.7299	1.000	1	23.73	4.75
		15199.54	123.0883			123.09	24.62

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Report stored in ASCII file: G:\gc22\CHB\314b010p.TX0

GC22 Rtx-CLPesticides II

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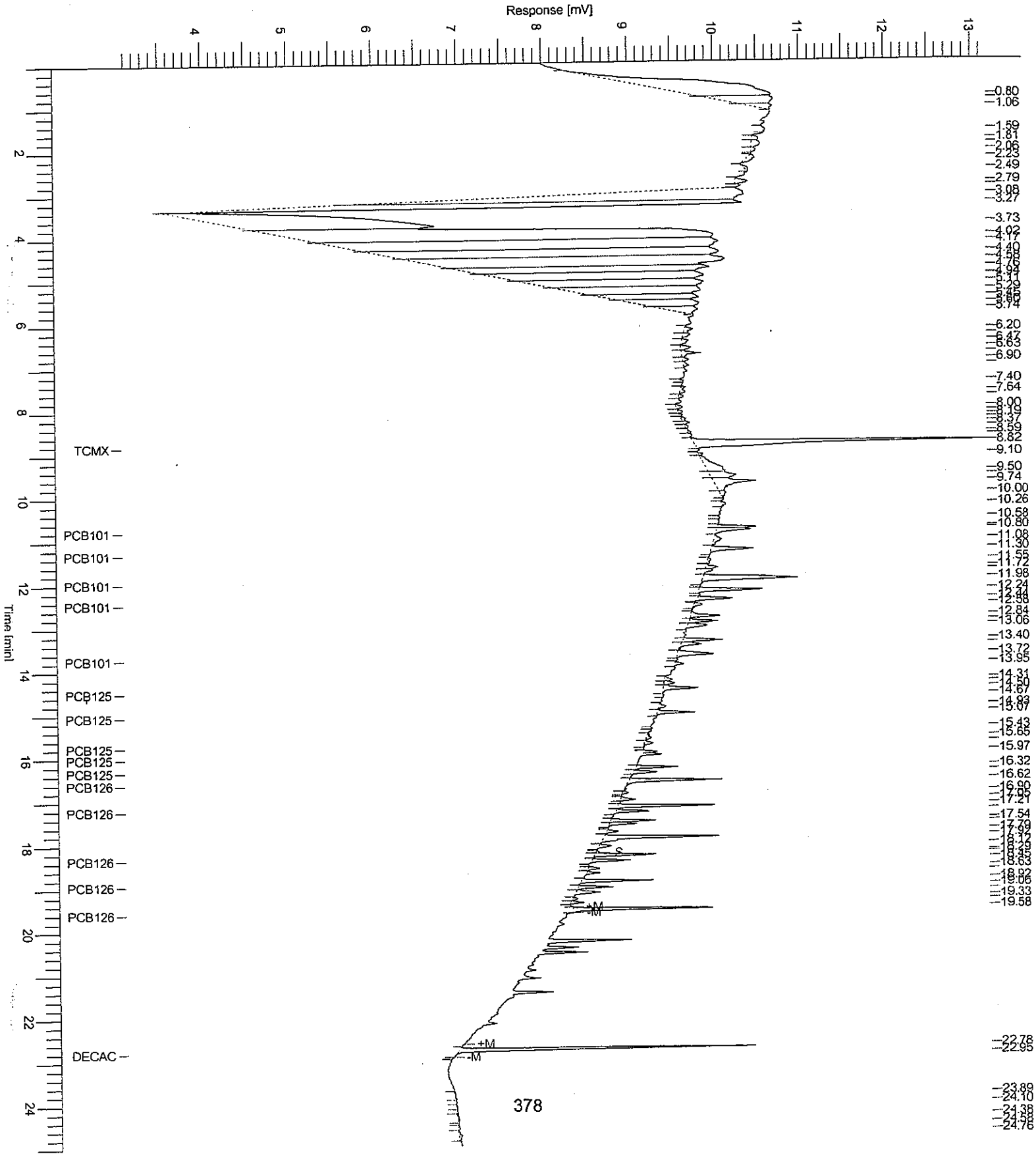
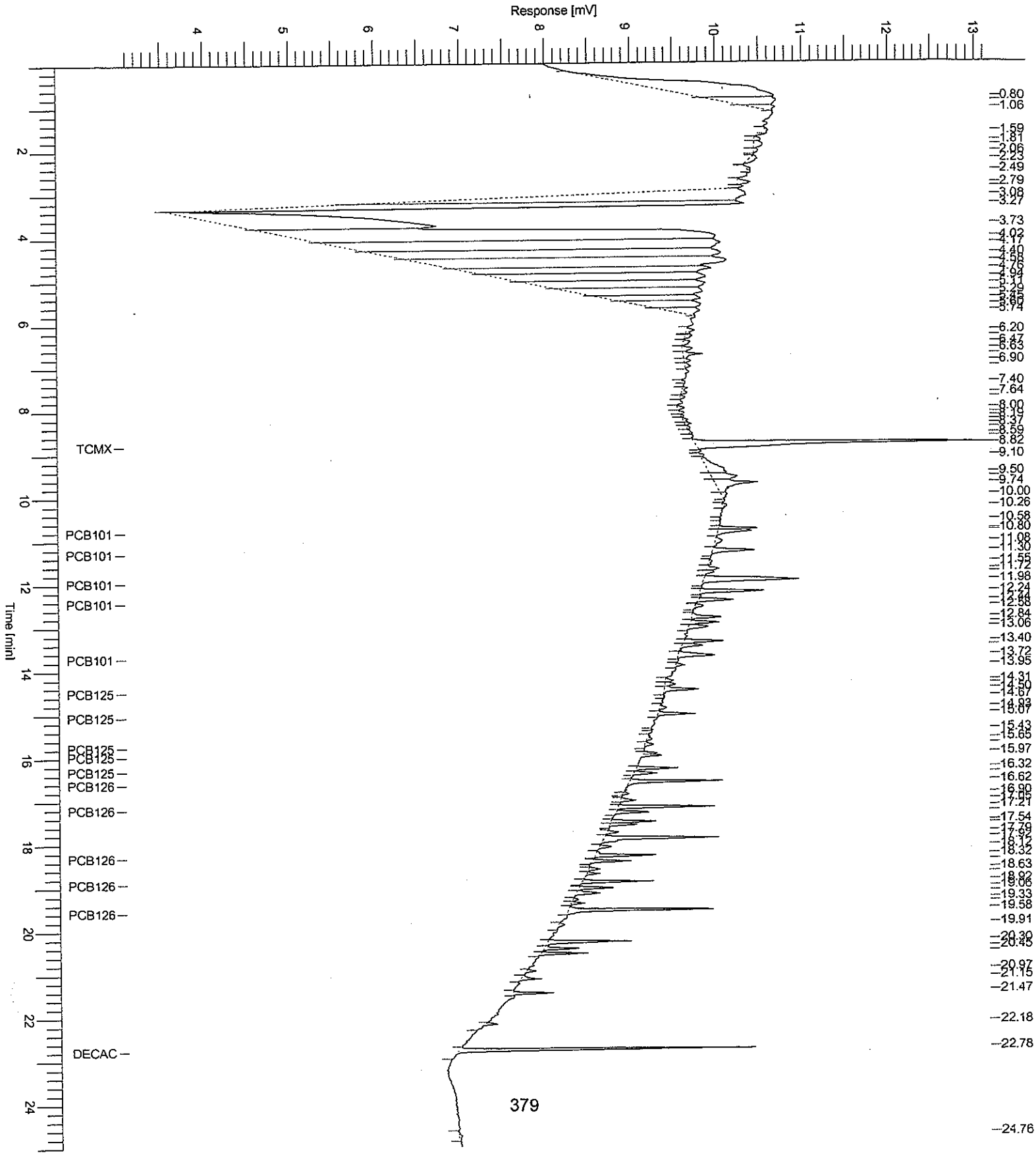
thod :
Time of Injection: 11/8/04 10:05:59 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 3.04 mV High Point : 13.19 mV
t Offset: 3.04 mV Plot Scale: 10.1 mV



GC22 Rtx-CLPesticides II

ımple Name : ical,04ws1787,pcb25_5 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHb\314b010
ıte : 11/9/04 9:19:58 AM
ethod : gc22ins Time of Injection: 11/8/04 10:05:59 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 3.07 mV High Point : 13.19 mV
cale Factor: 1.0 Plot Offset: 3.07 mV Plot Scale: 10.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 11/9/04 9:05:54 AM
Data Acquisition Time : 11/8/04 10:33:33 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a011p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.122	63211.71	20.0536	1.000	1	20.05	4.01
Aroclor-1016	10.178	31239.81	103.3441	1.000	1	103.34	20.67
Aroclor-1254	15.645	18496.90	0.0185	1.000	1	0.02	0.00
Aroclor-1260	19.034	60283.92	99.2605	1.000	1	99.26	19.85
Decachlorobiphenyl	21.881	27002.38	18.4452	1.000	1	18.45	3.69
		200234.71	241.1218			241.12	48.22

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.178	11127.00	106.6293	1.000	1	106.63	21.33
PCB1016#2	11.980	6247.27	104.5813	1.000	1	104.58	20.92
PCB1016#3	12.454	3798.25	104.0067	1.000	1	104.01	20.80
PCB1016#4	12.886	6207.01	97.1637	1.000	1	97.16	19.43
PCB1016#5	13.107	3860.28	102.1242	1.000	1	102.12	20.42
		31239.81	514.5051			514.51	102.90

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.868	4203.80	53.8270	1.000	1	53.83	10.77
PCB1254#2	14.529	4822.65	35.4904	1.000	1	35.49	7.10
PCB1254#3	15.220	2851.59	33.2449	1.000	1	33.24	6.65
PCB1254#4	15.645	5169.30	36.2022	1.000	1	36.20	7.24
PCB1254#5	16.245	1449.55	14.2261	1.000	1	14.23	2.85
		18496.90	172.9906			172.99	34.60

PA
11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.995	10696.24	100.5030	1.000	1	100.50	20.10
PCB1260#2	16.685	16154.29	101.5860	1.000	1	101.59	20.32
PCB1260#3	17.661	7309.34	96.4363	1.000	1	96.44	19.29
PCB1260#4	18.279	8321.89	97.7311	1.000	1	97.73	19.55
PCB1260#5	19.034	17802.16	98.3887	1.000	1	98.39	19.68
		60283.92	494.6451			494.65	98.93

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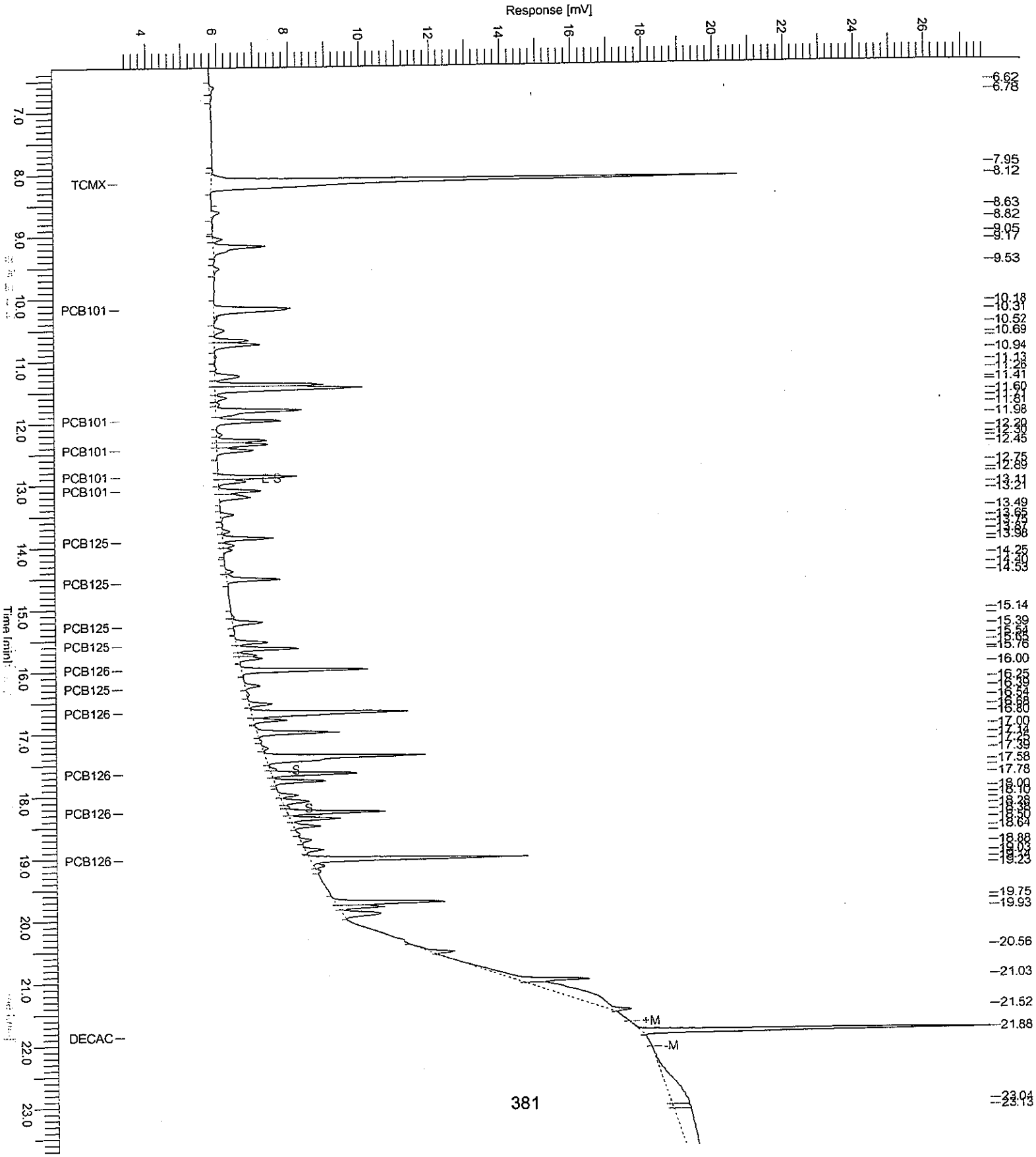
Report stored in ASCII file: G:\gc22\CHA\314a011p.TX0

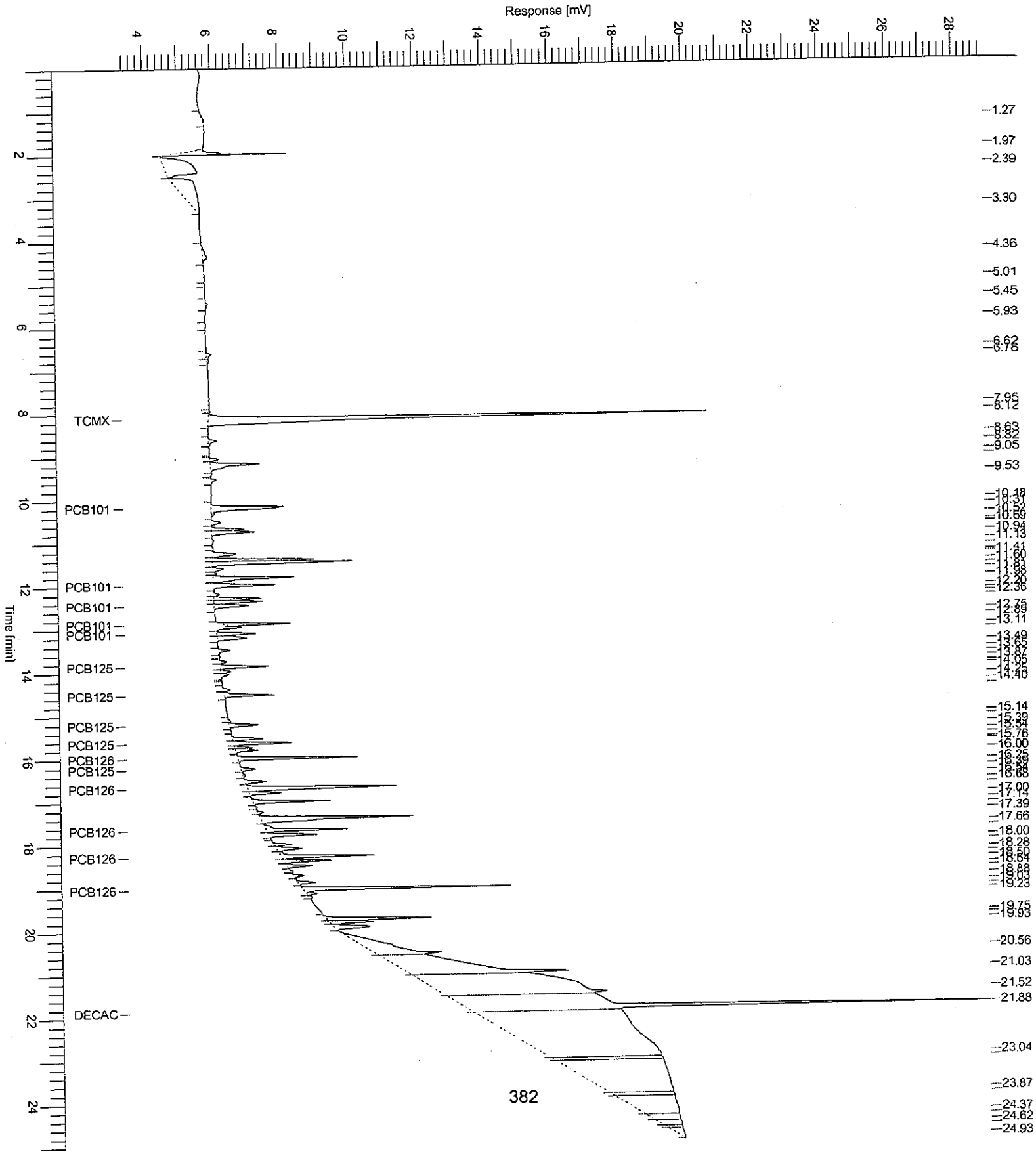
GC22 Rtx-CLPesticides

ımple Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHa\314a011.raw
ıte : 11/9/04 9:06:00 AM
ethod :
Time of Injection: 11/8/04 10:33:33 PM
art Time : 6.30 min End Time : 23.72 min Low Point : 3.22 mV High Point : 27.66 mV
ot Offset: 3.22 mV Plot Scale: 24.4 mV



GC22 Rtx-CLPesticides

mple Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHa\314a011.raw
te : 11/9/04 8:58:35 AM
thod : gc22ins Time of Injection: 11/8/04 10:33:33 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : 3.28 mV High Point : 28.94 mV
ale Factor: 1.0 Plot Offset: 3.28 mV Plot Scale: 25.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1788,pcb100_20
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 11/9/04 9:28:08 AM
Data Acquisition Time : 11/8/04 10:33:33 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b011p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.816	65801.59	16.9665	1.000	1	16.97	3.39
Aroclor-1016	11.977	51023.63	93.5233	1.000	1	93.52	18.70
Aroclor-1254	16.320	19472.82	0.0195	1.000	1	0.02	0.00
Aroclor-1260	19.582	67100.21	108.5985	1.000	1	108.60	21.72
Decachlorobiphenyl	22.785	35467.00	24.2764	1.000	1	24.28	4.86
		238865.26	243.3842			243.38	48.68

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.804	5306.13	80.4898	1.000	1	80.49	16.10
PCB1016#2	11.301	8016.94	94.3606	1.000	1	94.36	18.87
PCB1016#3	11.977	23399.00	94.8014	1.000	1	94.80	18.96
PCB1016#4	12.448	6615.06	94.7285	1.000	1	94.73	18.95
PCB1016#5	13.726	7686.50	98.5014	1.000	1	98.50	19.70
		51023.63	462.8818			462.88	92.58

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.512	5021.61	47.8600	1.000	1	47.86	9.57
PCB1254#2	15.070	5186.00	36.5982	1.000	1	36.60	7.32
PCB1254#3	15.772	0.00	0.0000	1.000	1	0.00	0.00
PCB1254#4	16.027	3450.50	19.8781	1.000	1	19.88	3.98
PCB1254#5	16.320	5814.72	167.2056	1.000	1	167.21	33.44
		19472.82	271.5419			271.54	54.31

PA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.623	13266.00	106.2657	1.000	1	106.27	21.25
PCB1260#2	17.214	13942.22	108.7296	1.000	1	108.73	21.75
PCB1260#3	18.330	8849.08	109.5955	1.000	1	109.60	21.92
PCB1260#4	18.922	9636.00	106.0025	1.000	1	106.00	21.20
PCB1260#5	19.582	21406.91	110.8242	1.000	1	110.82	22.16
		67100.21	541.4174			541.42	108.28

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Report stored in ASCII file: G:\gc22\CHB\314b011p.TX0

GC22 Rtx-CLPesticides II

ample Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
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ethod :
Time of Injection: 11/8/04 10:33:33 PM
art Time : 7.53 min End Time : 24.43 min Low Point : 5.82 mV High Point : 24.30 mV
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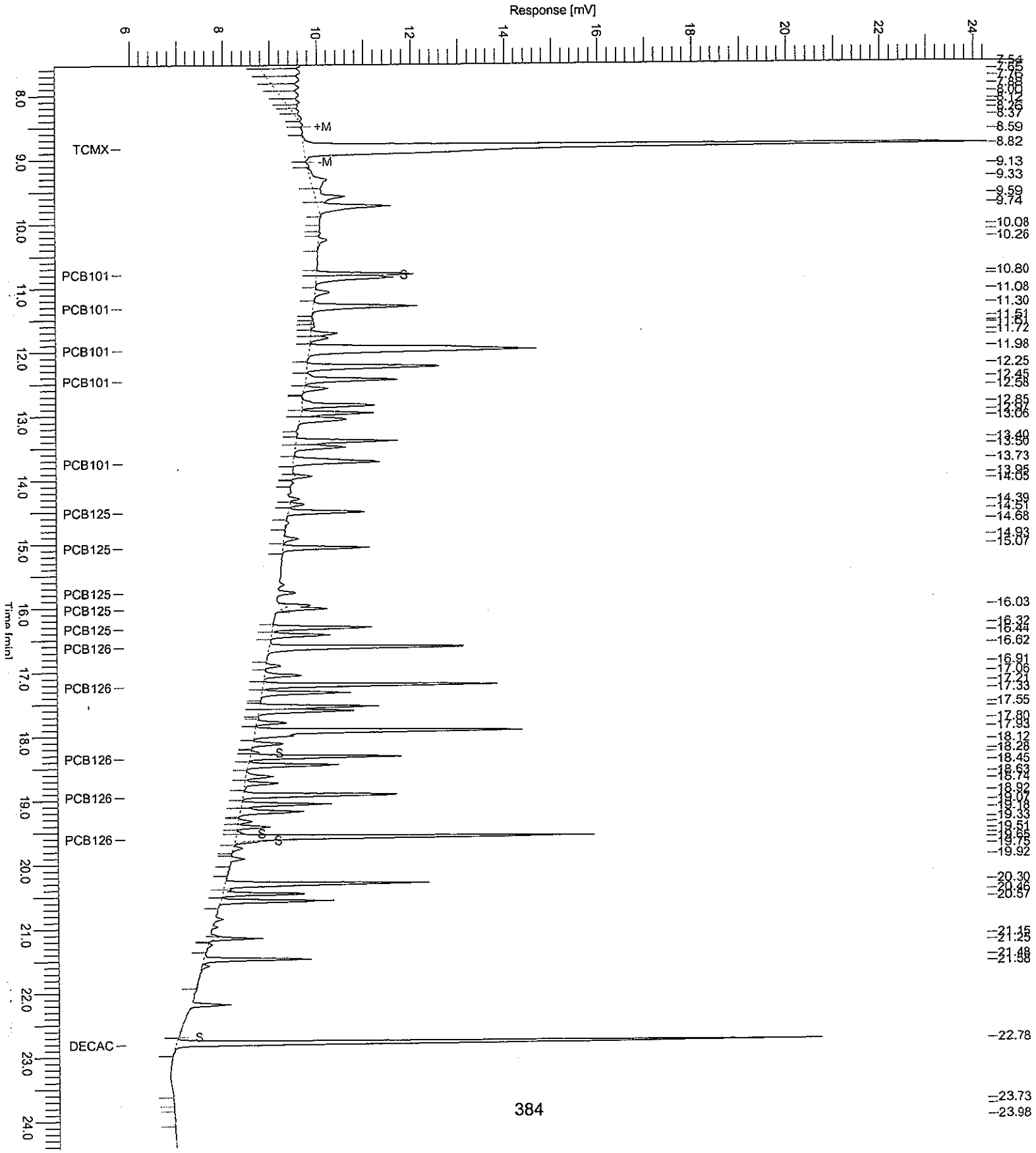
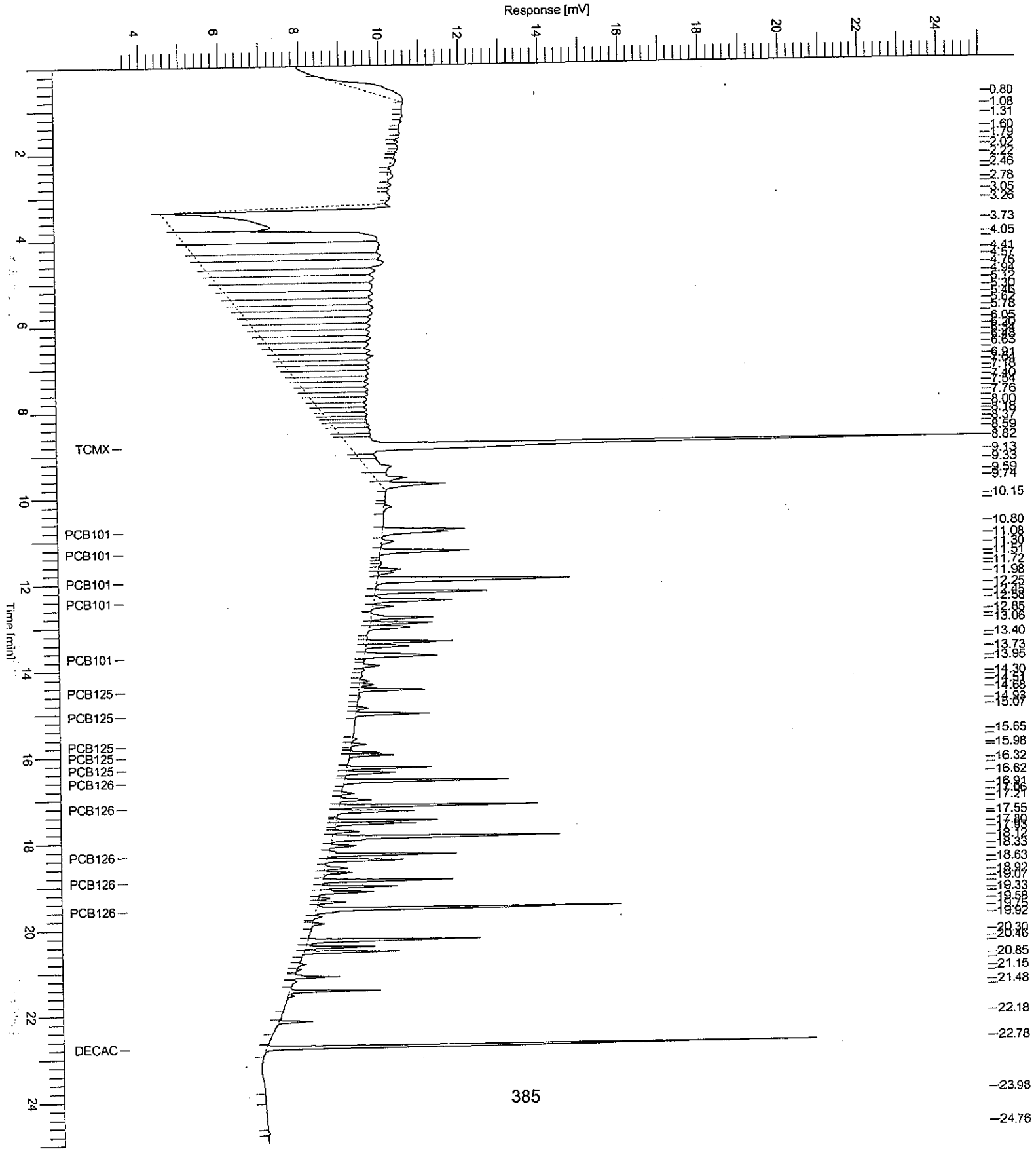


GC22 Rtx-CLPesticides II

nple Name : ical,04ws1788,pcb100_20 Sample #: 250ug/l Page 1 of 1
iName : G:\gc22\CHb\314b011
le : 11/9/04 9:20:05 AM
thod : gc22ins Time of Injection: 11/8/04 10:33:33 PM
irt Time : 0.00 min End Time : 25.00 min Low Point : 3.49 mV High Point : 25.05 mV
ale Factor: 1.0 Plot Offset: 3.49 mV Plot Scale: 21.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 11/9/04 9:07:12 AM
Data Acquisition Time : 11/8/04 11:01:09 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a012p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.119	137653.52	43.6698	1.000	1	43.67	8.73
Aroclor-1016	10.174	70523.63	233.2984	1.000	1	233.30	46.66
Aroclor-1254	15.635	33456.46	0.0335	1.000	1	0.03	0.01
Aroclor-1260	19.029	128532.88	211.6359	1.000	1	211.64	42.33
Decachlorobiphenyl	21.872	59494.49	40.6404	1.000	1	40.64	8.13
		429660.96	529.2780			529.28	105.86

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.174	24633.50	236.0612	1.000	1	236.06	47.21
PCB1016#2	11.971	13850.20	231.8568	1.000	1	231.86	46.37
PCB1016#3	12.450	8403.21	230.1032	1.000	1	230.10	46.02
PCB1016#4	12.882	14688.76	229.9360	1.000	1	229.94	45.99
PCB1016#5	13.103	8947.96	236.7192	1.000	1	236.72	47.34
		70523.63	1164.6764			1164.68	232.94

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11/09/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.971	2333.12	29.8741	1.000	1	29.87	5.97
PCB1254#2	14.519	10586.72	77.9088	1.000	1	77.91	15.58
PCB1254#3	15.215	6144.26	71.6321	1.000	1	71.63	14.33
PCB1254#4	15.635	11234.13	78.6759	1.000	1	78.68	15.74
PCB1254#5	16.235	3158.23	30.9953	1.000	1	31.00	6.20
		33456.46	289.0863			289.09	57.82

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.985	22642.00	212.7467	1.000	1	212.75	42.55
PCB1260#2	16.675	34072.79	214.2662	1.000	1	214.27	42.85
PCB1260#3	17.651	16091.90	212.3097	1.000	1	212.31	42.46
PCB1260#4	18.268	17858.86	209.7320	1.000	1	209.73	41.95
PCB1260#5	19.029	37867.32	209.2844	1.000	1	209.28	41.86
		128532.88	1058.3390			1058.34	211.67

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Report stored in ASCII file: G:\gc22\CHA\314a012p.TX0

GC22 Rtx-CLPesticides

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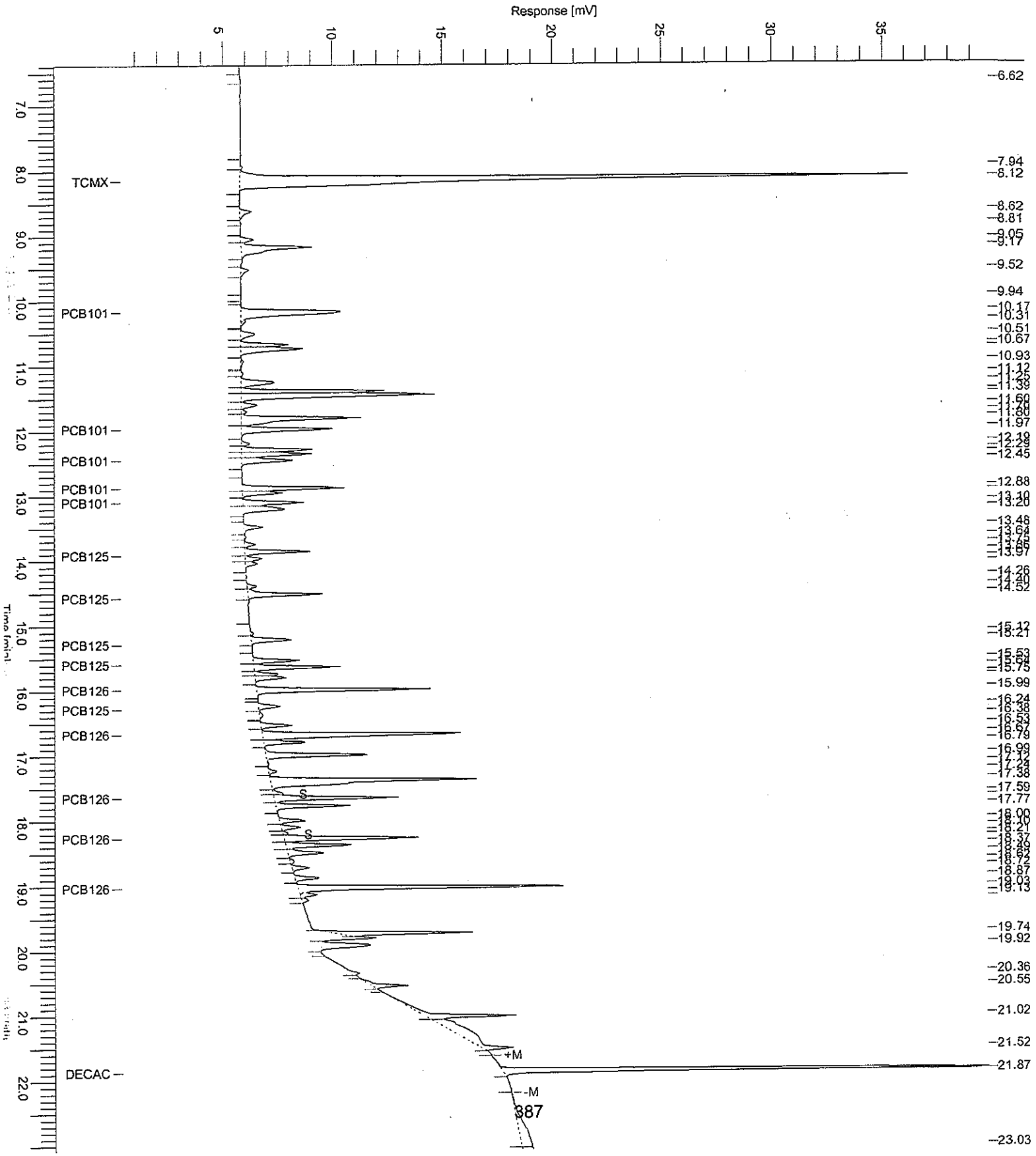

GC22 Rtx-CLPesticides

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te : 11/9/04 8:58:42 AM
thod : gc22ins Time of Injection: 11/8/04 11:01:09 PM
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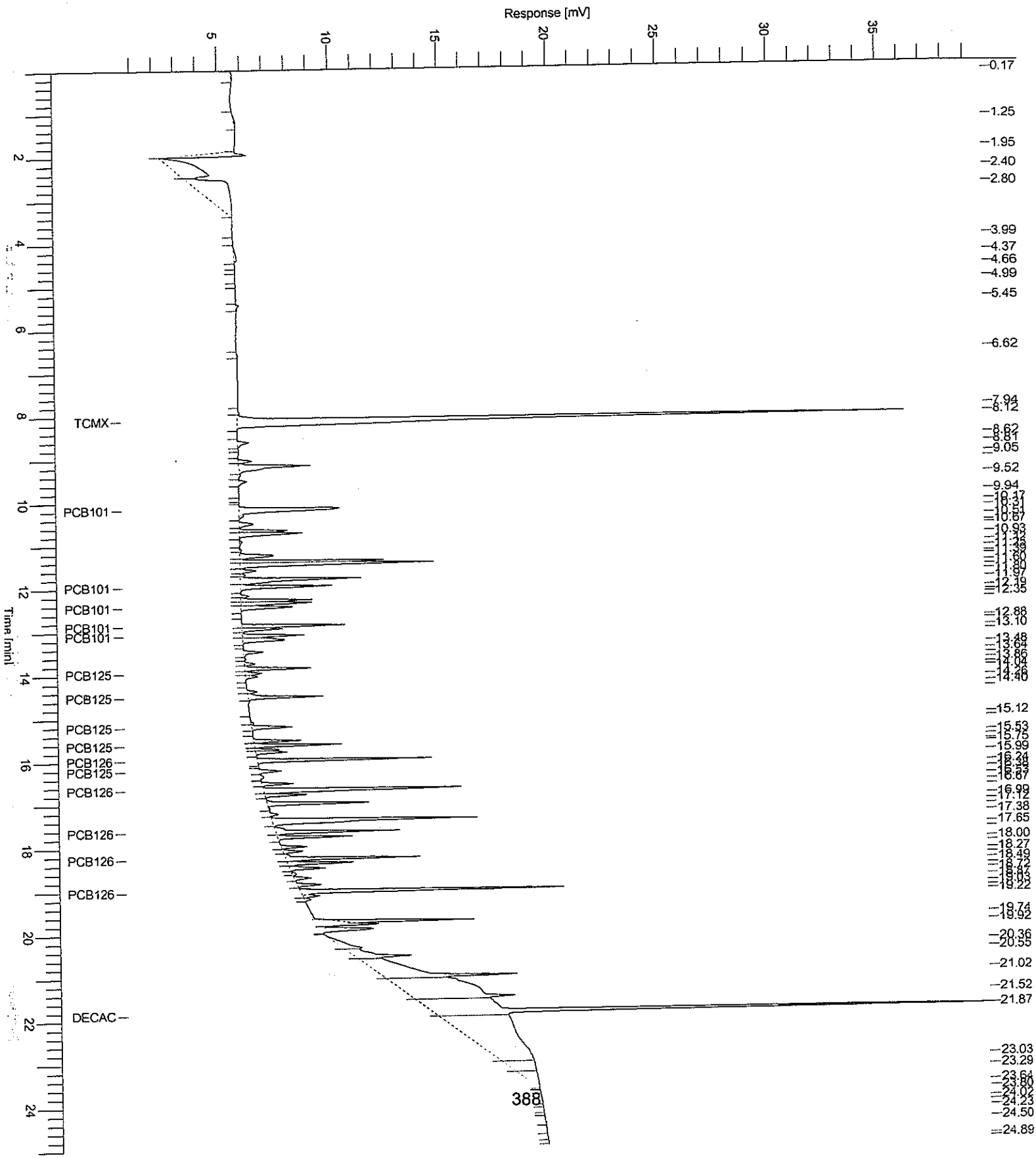

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1789,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 11/9/04 9:29:49 AM
Data Acquisition Time : 11/8/04 11:01:09 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b012p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.809	135822.25	35.0209	1.000	1	35.02	7.00
Aroclor-1016	11.973	106459.86	195.1347	1.000	1	195.13	39.03
Aroclor-1254	16.316	42792.76	0.0428	1.000	1	0.04	0.01
Aroclor-1260	19.571	132013.48	213.6576	1.000	1	213.66	42.73
Decachlorobiphenyl	22.782	67268.00	46.0435	1.000	1	46.04	9.21
		484356.35	489.8994			489.90	97.98

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.794	12507.72	189.7321	1.000	1	189.73	37.95
PCB1016#2	11.297	16365.19	192.6209	1.000	1	192.62	38.52
PCB1016#3	11.973	47980.00	194.3916	1.000	1	194.39	38.88
PCB1016#4	12.439	13803.95	197.6745	1.000	1	197.67	39.53
PCB1016#5	13.717	15803.00	202.5132	1.000	1	202.51	40.50
		106459.86	976.9323			976.93	195.39

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.503	10682.02	101.8084	1.000	1	101.81	20.36
PCB1254#2	15.065	10721.14	75.6604	1.000	1	75.66	15.13
PCB1254#3	15.767	2474.00	24.9514	1.000	1	24.95	4.99
PCB1254#4	16.015	7050.46	40.6172	1.000	1	40.62	8.12
PCB1254#5	16.316	11865.15	341.1893	1.000	1	341.19	68.24
		42792.76	584.2266			584.23	116.85

PA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.618	26191.50	209.8038	1.000	1	209.80	41.96
PCB1260#2	17.203	27617.80	215.3797	1.000	1	215.38	43.08
PCB1260#3	18.320	17647.96	218.5693	1.000	1	218.57	43.71
PCB1260#4	18.917	19187.00	211.0699	1.000	1	211.07	42.21
PCB1260#5	19.571	41369.22	214.1696	1.000	1	214.17	42.83
		132013.48	1068.9923			1068.99	213.80

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Report stored in ASCII file: G:\gc22\CHB\314b012p.TX0

GC22 Rtx-CLPesticides II

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ıte : 11/9/04 9:29:54 AM
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Time of Injection: 11/8/04 11:01:09 PM
art Time : 7.68 min End Time : 23.87 min Low Point : 2.44 mV High Point : 36.64 mV
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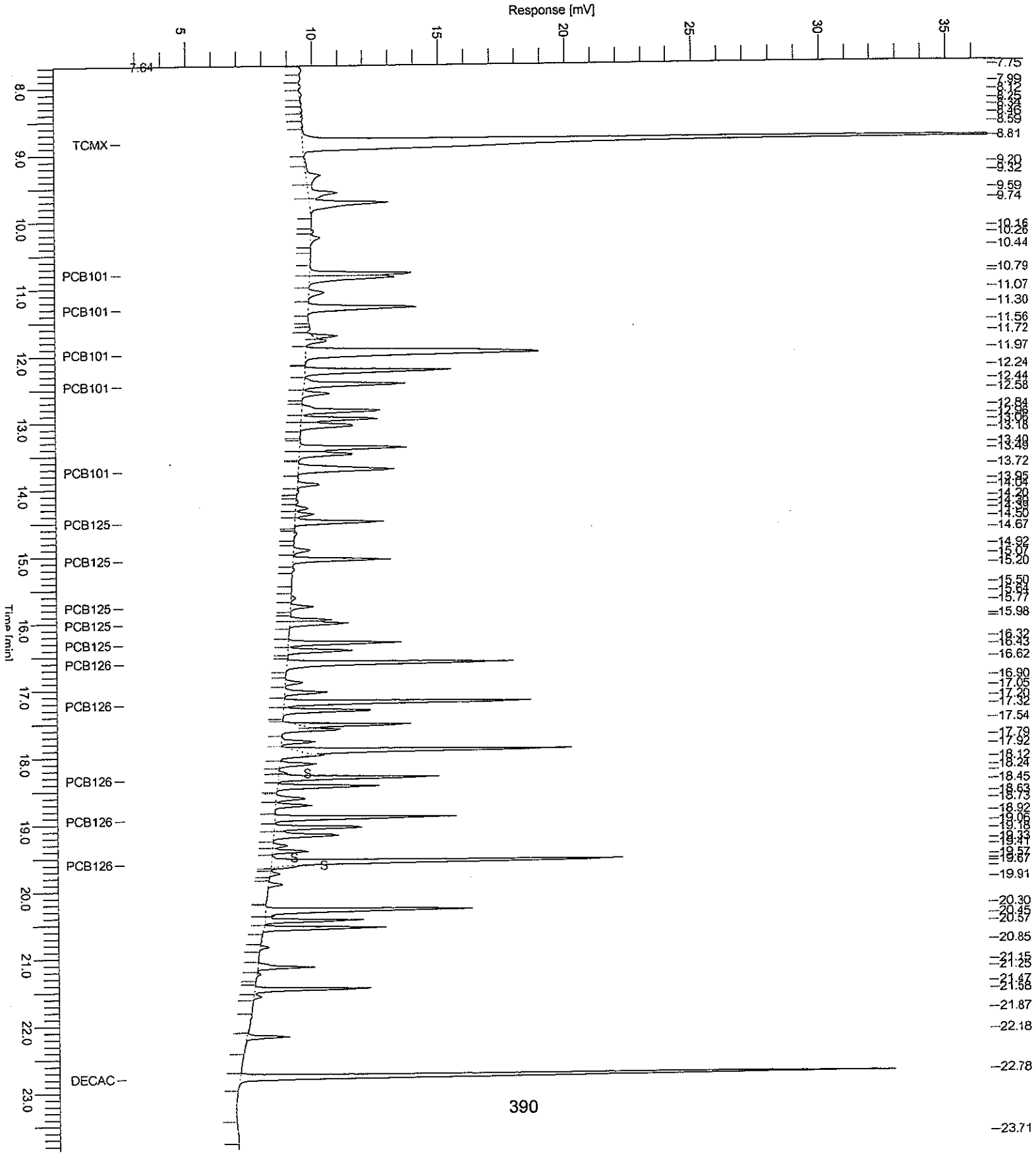

GC22 Rtx-CLPesticides II

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ıte : 11/9/04 9:20:12 AM
ethod : gc22ins Time of Injection: 11/8/04 11:01:09 PM
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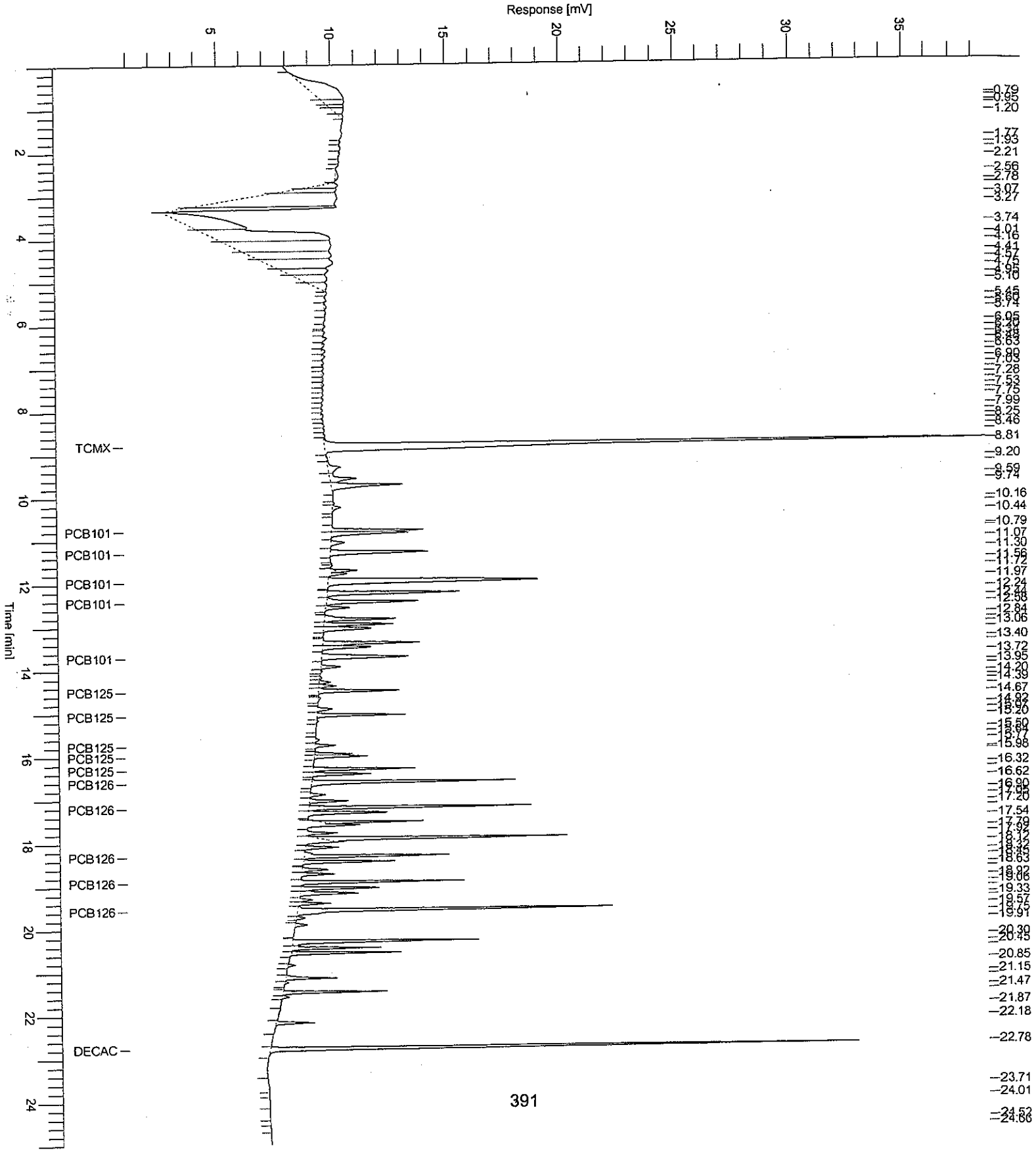

Software Version : 6.1.2.0.1:D19
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Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 11/9/04 9:08:33 AM
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Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a013p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.119	259380.84	82.2872	1.000	1	82.29	16.46
Aroclor-1016	10.173	129605.94	428.7480	1.000	1	428.75	85.75
Aroclor-1254	15.636	50834.58	0.0508	1.000	1	0.05	0.01
Aroclor-1260	19.029	233328.86	384.1877	1.000	1	384.19	76.84
Decachlorobiphenyl	21.879	107093.19	73.1548	1.000	1	73.15	14.63
		780243.42	968.4285			968.43	193.69

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.173	45850.00	439.3775	1.000	1	439.38	87.88
PCB1016#2	11.971	25678.60	429.8680	1.000	1	429.87	85.97
PCB1016#3	12.450	15650.63	428.5579	1.000	1	428.56	85.71
PCB1016#4	12.882	25803.43	403.9235	1.000	1	403.92	80.78
PCB1016#5	13.103	16623.29	439.7710	1.000	1	439.77	87.95
		129605.94	2141.4978			2141.50	428.30

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.971	4431.33	56.7404	1.000	1	56.74	11.35
PCB1254#2	14.520	19592.06	144.1801	1.000	1	144.18	28.84
PCB1254#3	15.339	184.47	2.1506	1.000	1	2.15	0.43
PCB1254#4	15.636	20578.76	144.1191	1.000	1	144.12	28.82
PCB1254#5	16.236	6047.96	59.3555	1.000	1	59.36	11.87
		50834.58	406.5458			406.55	81.31

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Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.986	41167.31	386.8125	1.000	1	386.81	77.36
PCB1260#2	16.676	61543.05	387.0125	1.000	1	387.01	77.40
PCB1260#3	17.652	29498.77	389.1944	1.000	1	389.19	77.84
PCB1260#4	18.269	32735.63	384.4427	1.000	1	384.44	76.89
PCB1260#5	19.029	68384.09	377.9440	1.000	1	377.94	75.59
		233328.86	1925.4060			1925.41	385.08

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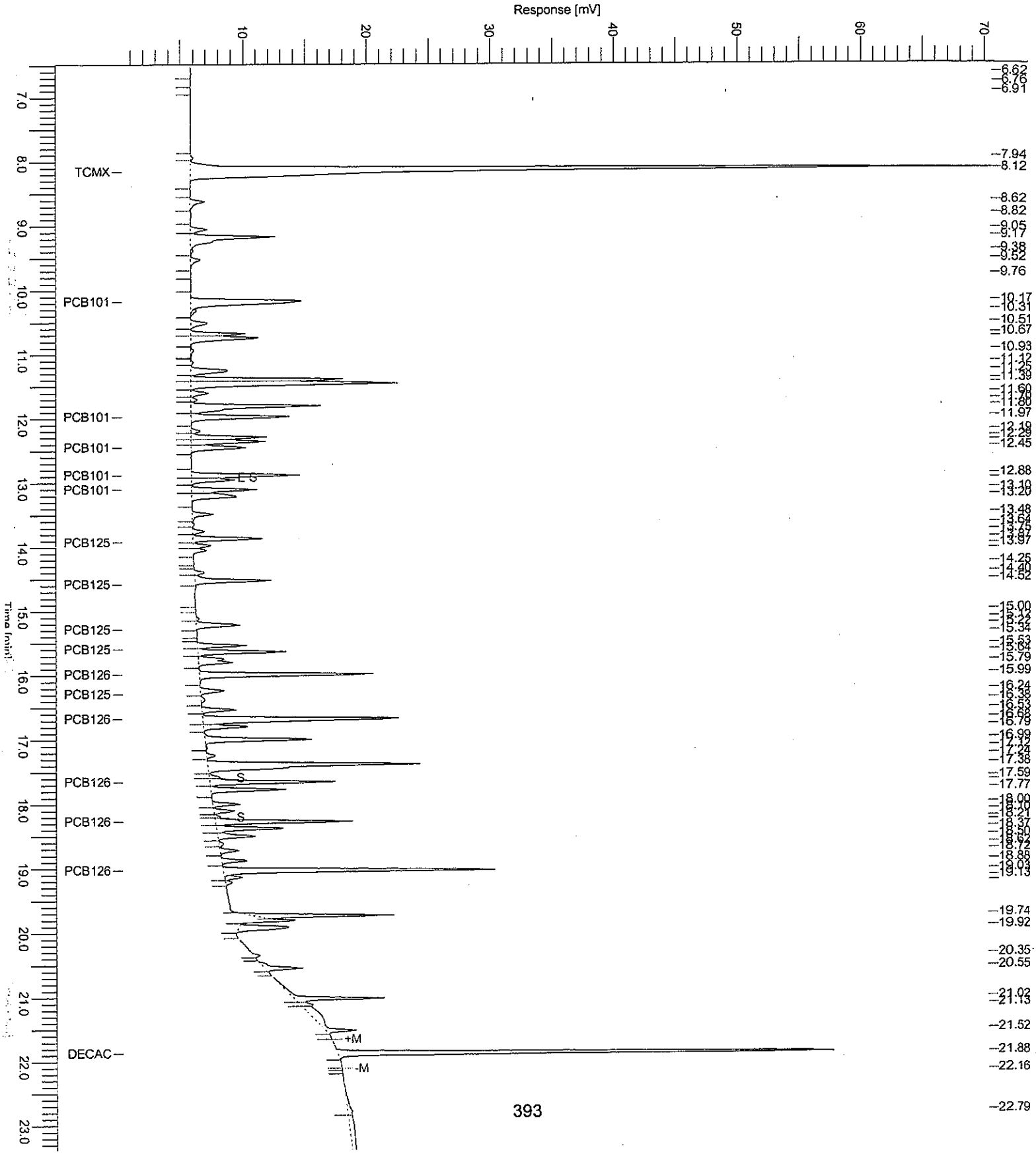
Report stored in ASCII file: G:\gc22\CHA\314a013p.TX0

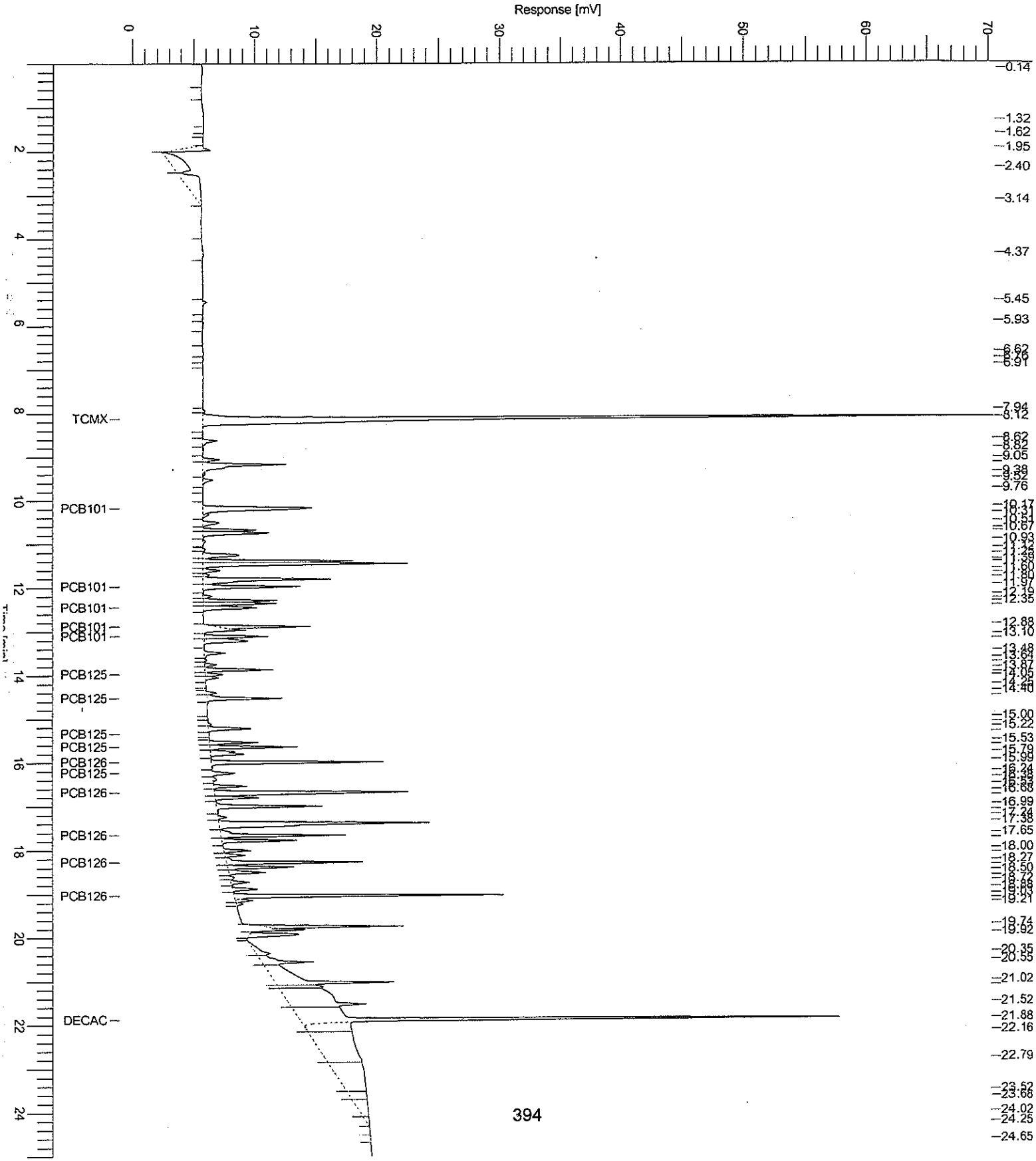
GC22 Rtx-CLPesticides

ımple Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHa\314a013.raw
ıte : 11/9/04 9:08:39 AM
ethod : Time of Injection: 11/8/04 11:28:48 PM
art Time : 6.48 min End Time : 23.38 min Low Point : 0.30 mV High Point : 70.63 mV
ot Offset: 0.30 mV Plot Scale: 70.3 mV



GC22 Rtx-CLPesticides

ample Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHa\314a013.raw
ate : 11/9/04 8:58:49 AM
ethod : gc22ins Time of Injection: 11/8/04 11:28:48 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -0.99 mV High Point : 70.63 mV
cale Factor: 1.0 Plot Offset: -0.99 mV Plot Scale: 71.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1790,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 11/9/04 9:31:57 AM
Data Acquisition Time : 11/8/04 11:28:48 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b013p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.814	255809.23	65.9587	1.000	1	65.96	13.19
Aroclor-1016	11.975	197093.08	361.2601	1.000	1	361.26	72.25
Aroclor-1254	16.317	63976.25	0.0640	1.000	1	0.06	0.01
Aroclor-1260	19.578	234742.72	379.9200	1.000	1	379.92	75.98
Decachlorobiphenyl	22.783	121614.50	83.2425	1.000	1	83.24	16.65
		873235.78	890.4452			890.45	178.09

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.803	21866.75	331.7011	1.000	1	331.70	66.34
PCB1016#2	11.298	30909.00	363.8038	1.000	1	363.80	72.76
PCB1016#3	11.975	88655.50	359.1890	1.000	1	359.19	71.84
PCB1016#4	12.441	26032.83	372.7937	1.000	1	372.79	74.56
PCB1016#5	13.719	29629.00	379.6915	1.000	1	379.69	75.94
		197093.08	1807.1792			1807.18	361.44

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.504	19897.01	189.6347	1.000	1	189.63	37.93
PCB1254#2	15.067	19661.24	138.7518	1.000	1	138.75	27.75
PCB1254#3	15.769	3931.50	39.6509	1.000	1	39.65	7.93
PCB1254#4	15.978	3170.50	18.2650	1.000	1	18.27	3.65
PCB1254#5	16.317	17316.00	497.9317	1.000	1	497.93	99.59
		63976.25	884.2342			884.23	176.85

FA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.619	47614.00	381.4061	1.000	1	381.41	76.28
PCB1260#2	17.205	49225.78	383.8914	1.000	1	383.89	76.78
PCB1260#3	18.322	31027.71	384.2769	1.000	1	384.28	76.86
PCB1260#4	18.919	34605.00	380.6783	1.000	1	380.68	76.14
PCB1260#5	19.578	72270.23	374.1451	1.000	1	374.15	74.83
		234742.72	1904.3977			1904.40	380.88

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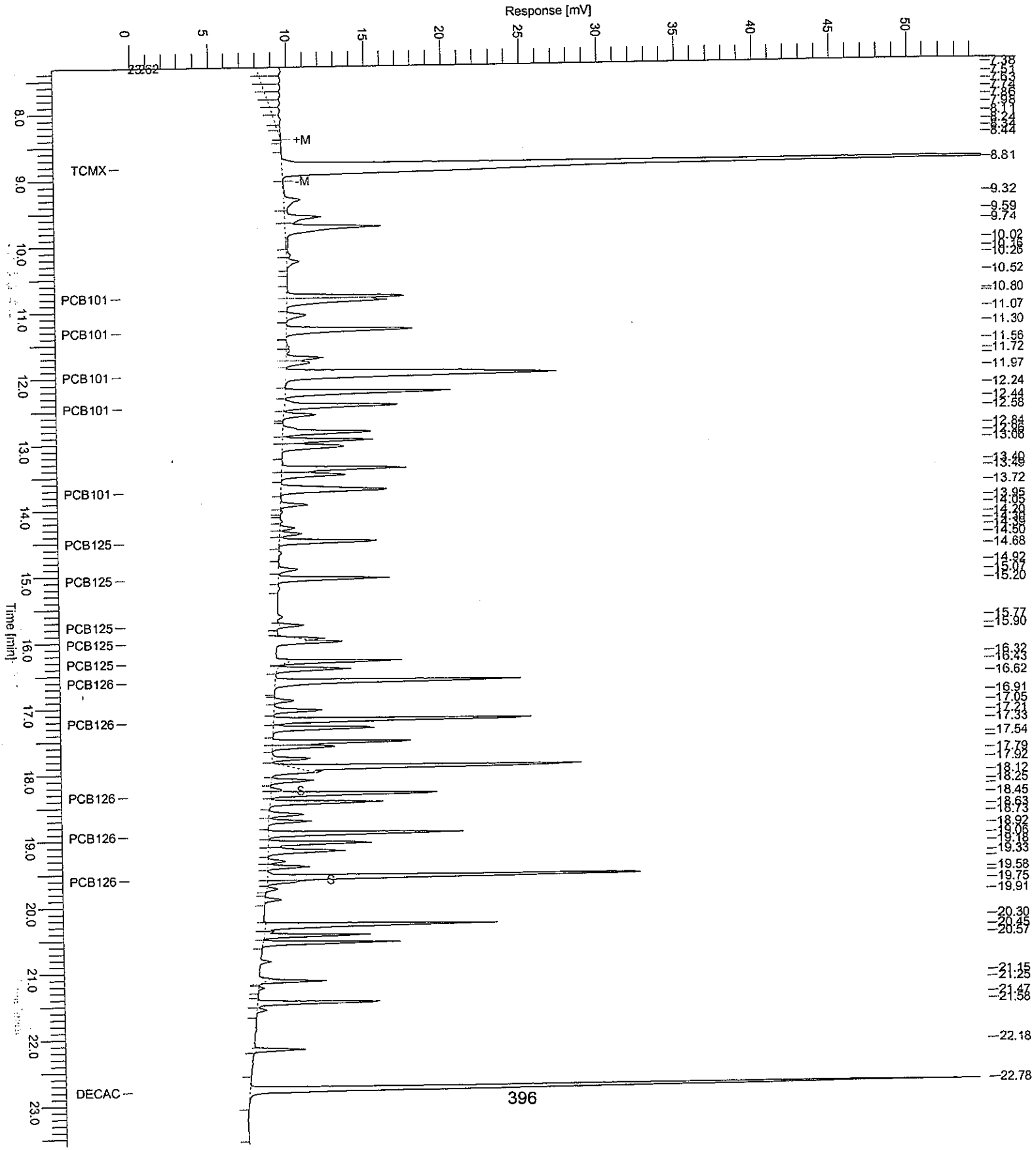
Report stored in ASCII file: G:\gc22\CHB\314b013p.TX0

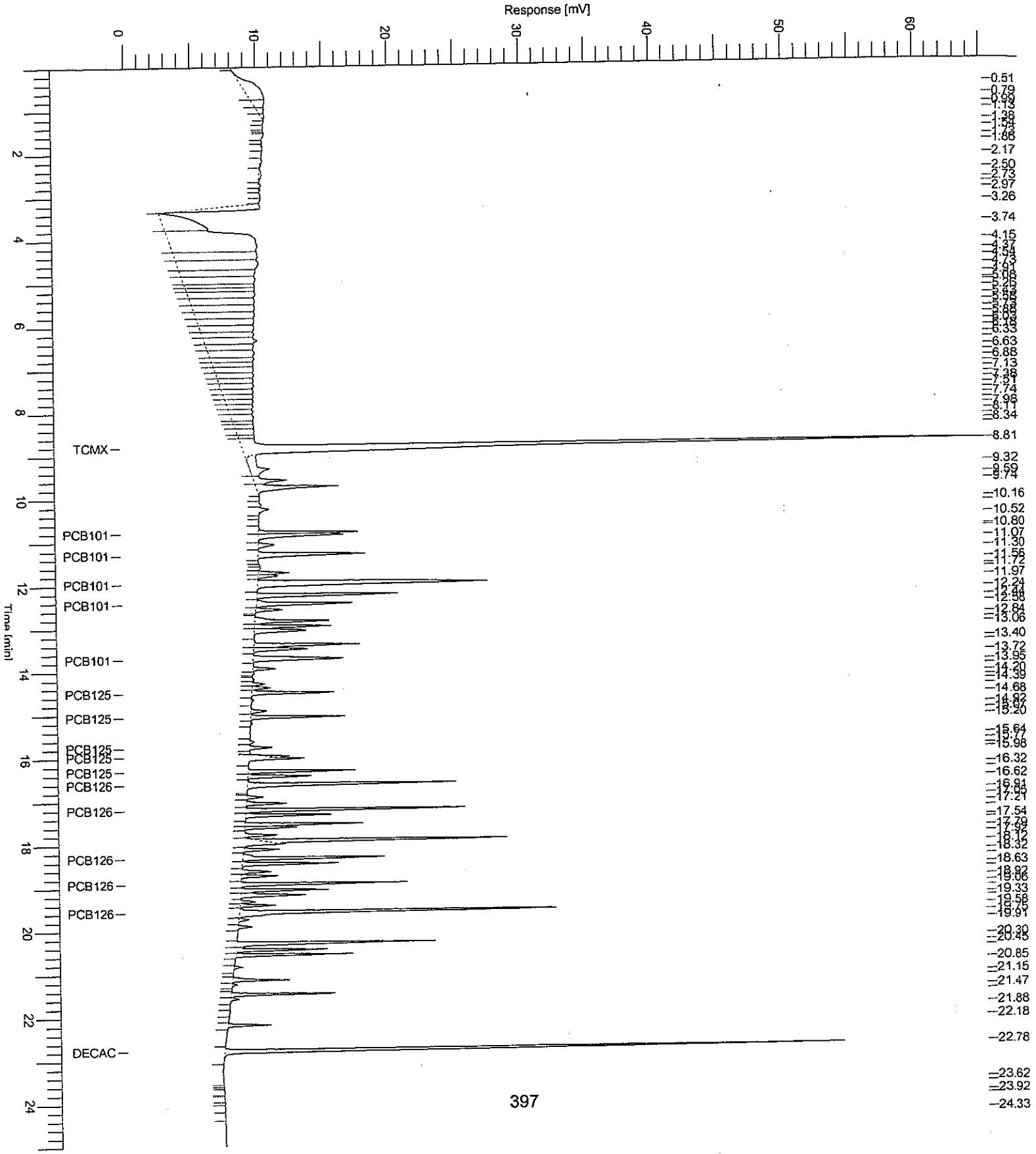
GC22 Rtx-CLPesticides II

mple Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHb\314b013.raw
te : 11/9/04 9:32:03 AM
thod :
Time of Injection: 11/8/04 11:28:48 PM
art Time : 7.32 min End Time : 23.60 min Low Point : -0.73 mV High Point : 54.72 mV
t Offset: -0.73 mV Plot Scale: 55.5 mV



GC22 Rtx-CLPesticides II

nple Name : ical,04ws1790,pcb500_100 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHb\314b013
te : 11/9/04 9:20:19 AM
thod : gc22ins Time of Injection: 11/8/04 11:28:48 PM
rt Time : 0.00 min End Time : 25.00 min Low Point : -0.57 mV High Point : 65.28 mV
ale Factor: 1.0 Plot Offset: -0.57 mV Plot Scale: 65.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 11/9/04 9:10:18 AM
Data Acquisition Time : 11/8/04 11:56:27 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a014p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.116	430675.66	136.6295	1.000	1	136.63	27.33
Aroclor-1016	10.166	216872.98	717.4351	1.000	1	717.44	143.49
Aroclor-1254	15.634	88381.83	0.0884	1.000	1	0.09	0.02
Aroclor-1260	19.023	397316.68	654.2019	1.000	1	654.20	130.84
Decachlorobiphenyl	21.871	189987.73	129.7797	1.000	1	129.78	25.96
		1323234.87	1638.1346			1638.13	327.63

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.166	75229.00	720.9144	1.000	1	720.91	144.18
PCB1016#2	11.968	43051.64	720.6982	1.000	1	720.70	144.14
PCB1016#3	12.447	26358.16	721.7599	1.000	1	721.76	144.35
PCB1016#4	12.878	44934.36	703.3967	1.000	1	703.40	140.68
PCB1016#5	13.100	27299.82	722.2200	1.000	1	722.22	144.44
		216872.98	3588.9891			3588.99	717.80

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.969	7802.71	99.9088	1.000	1	99.91	19.98
PCB1254#2	14.517	34852.90	256.4863	1.000	1	256.49	51.30
PCB1254#3	15.337	265.55	3.0958	1.000	1	3.10	0.62
PCB1254#4	15.634	34726.68	243.2011	1.000	1	243.20	48.64
PCB1254#5	16.233	10733.99	105.3450	1.000	1	105.34	21.07
		88381.83	708.0370			708.04	141.61

FA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.983	68964.45	647.9974	1.000	1	648.00	129.60
PCB1260#2	16.673	103697.30	652.0987	1.000	1	652.10	130.42
PCB1260#3	17.650	50253.35	663.0216	1.000	1	663.02	132.60
PCB1260#4	18.267	56093.17	658.7504	1.000	1	658.75	131.75
PCB1260#5	19.023	118308.41	653.8648	1.000	1	653.86	130.77
		397316.68	3275.7329			3275.73	655.15

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Report stored in ASCII file: G:\gc22\CHA\314a014p.TX0

GC22 Rtx-CLPesticides

ample Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
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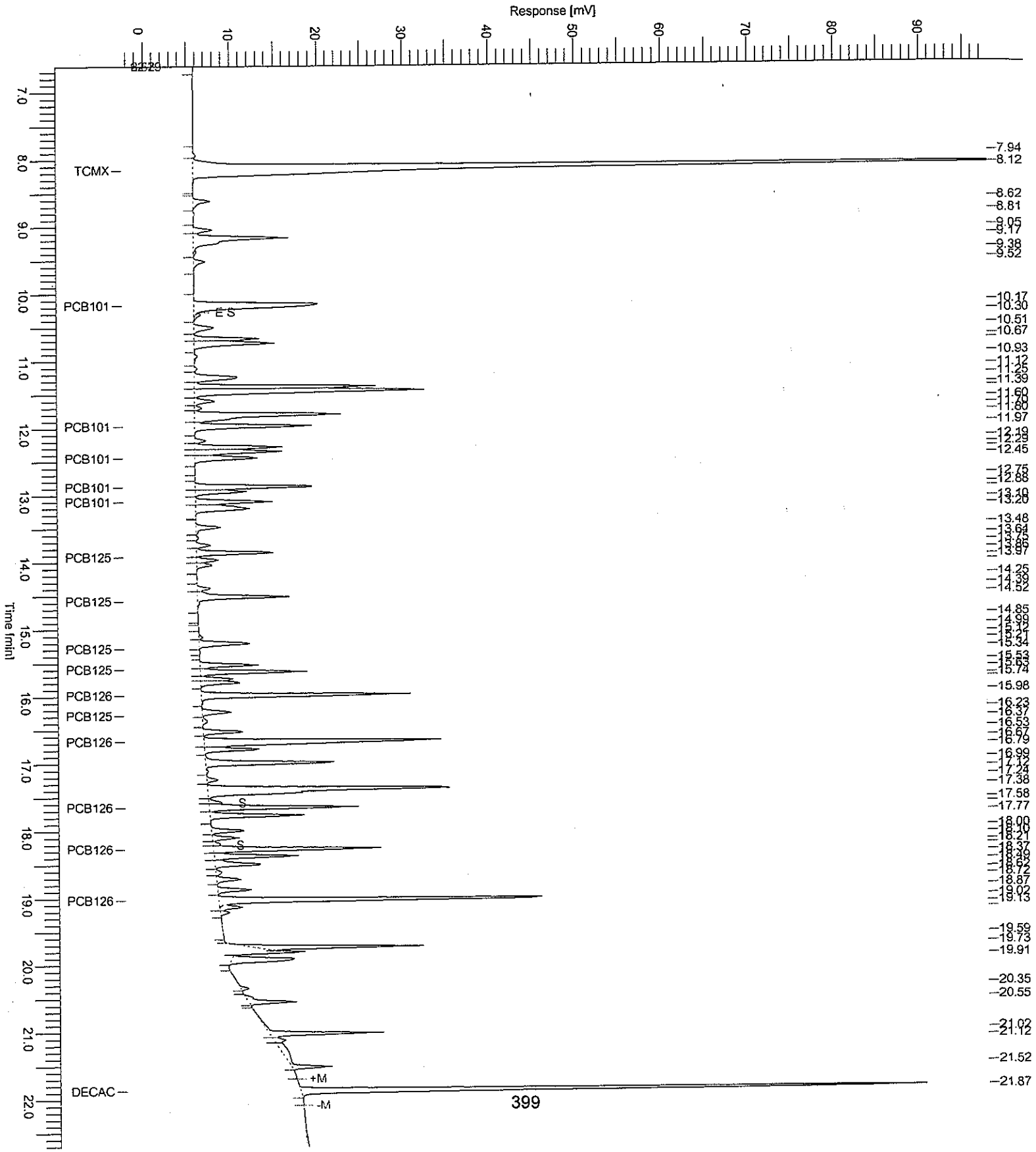
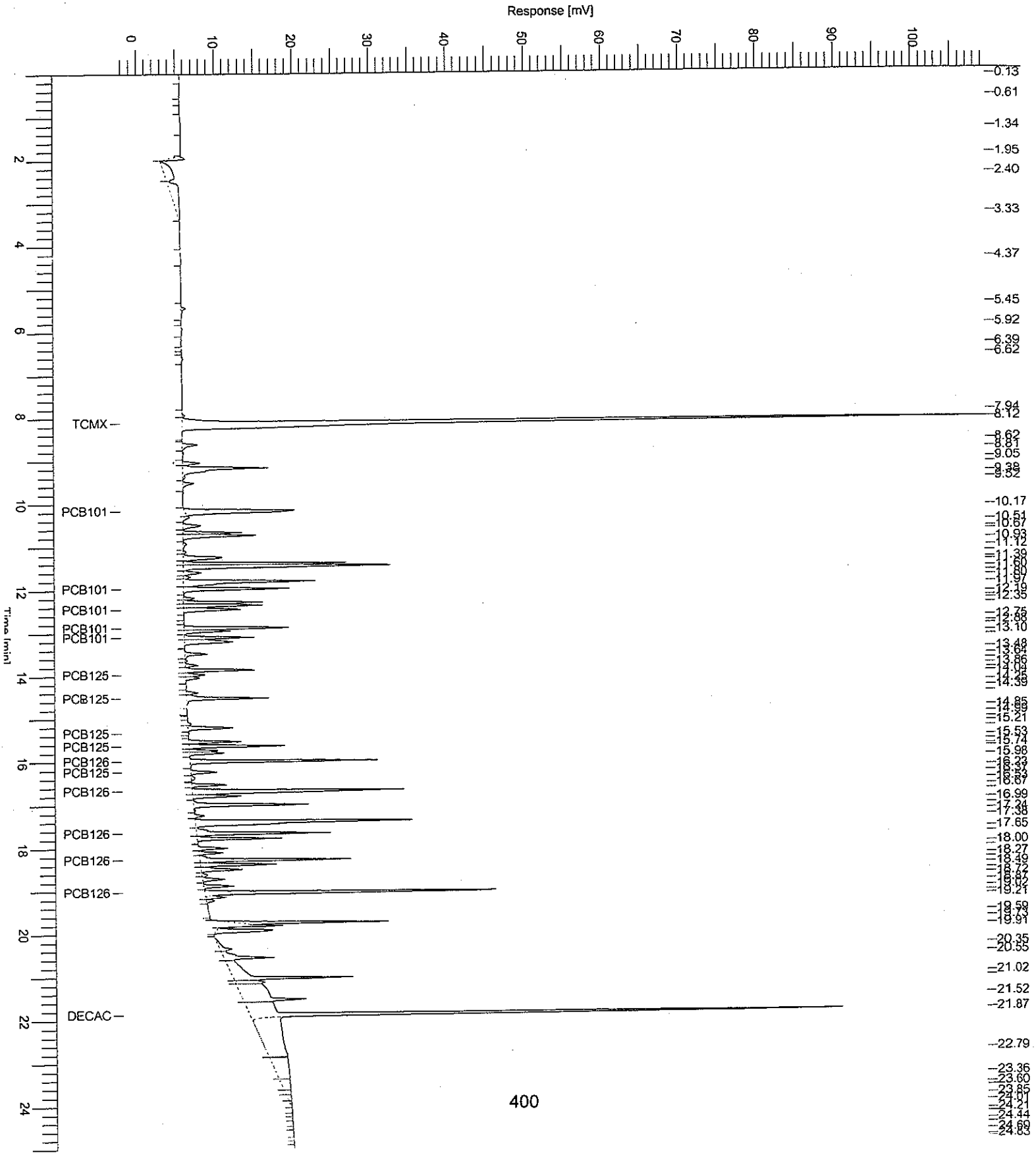
ethod :
Time of Injection: 11/8/04 11:56:27 PM
art Time : 6.62 min End Time : 22.72 min Low Point : -2.49 mV High Point : 97.90 mV
ot Offset: -2.49 mV Plot Scale: 100.4 mV



GC22 Rtx-CLPesticides

mple Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHa\314a014.raw
ıte : 11/9/04 8:58:56 AM
ethod : gc22ins Time of Injection: 11/8/04 11:56:27 PM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.21 mV High Point : 109.64 mV
ale Factor: 1.0 Plot Offset: -2.21 mV Plot Scale: 111.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1791,pcb750_150
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 11/9/04 9:33:07 AM
Data Acquisition Time : 11/8/04 11:56:27 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b014p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.807	415710.00	107.1881	1.000	1	107.19	21.44
Aroclor-1016	11.966	317793.20	582.4964	1.000	1	582.50	116.50
Aroclor-1254	16.315	124931.51	0.1249	1.000	1	0.12	0.02
Aroclor-1260	19.571	367529.70	594.8294	1.000	1	594.83	118.97
Decachlorobiphenyl	22.782	184999.00	126.6278	1.000	1	126.63	25.33
		1410963.41	1411.2666			1411.27	282.25

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.792	38011.75	576.6078	1.000	1	576.61	115.32
PCB1016#2	11.291	49487.52	582.4760	1.000	1	582.48	116.50
PCB1016#3	11.966	141010.00	571.3040	1.000	1	571.30	114.26
PCB1016#4	12.437	42050.93	602.1751	1.000	1	602.18	120.44
PCB1016#5	13.716	47233.00	605.2843	1.000	1	605.28	121.06
		317793.20	2937.8472			2937.85	587.57

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.502	31309.43	298.4044	1.000	1	298.40	59.68
PCB1254#2	15.065	30987.01	218.6792	1.000	1	218.68	43.74
PCB1254#3	15.767	7656.00	77.2142	1.000	1	77.21	15.44
PCB1254#4	16.015	21097.79	121.5428	1.000	1	121.54	24.31
PCB1254#5	16.315	33881.28	974.2759	1.000	1	974.28	194.86
		124931.51	1690.1165			1690.12	338.02

FA
11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.617	73670.00	590.1245	1.000	1	590.12	118.02
PCB1260#2	17.203	75946.13	592.2723	1.000	1	592.27	118.45
PCB1260#3	18.319	48791.57	604.2816	1.000	1	604.28	120.86
PCB1260#4	18.917	53442.00	587.8979	1.000	1	587.90	117.58
PCB1260#5	19.571	115680.00	598.8787	1.000	1	598.88	119.78
		367529.70	2973.4550			2973.45	594.69

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Report stored in ASCII file: G:\gc22\CHB\314b014p.TX0

GC22 Rtx-CLPesticides II

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ethod :
Time of Injection: 11/8/04 11:56:27 PM
art Time : 7.17 min End Time : 23.70 min Low Point : -1.88 mV High Point : 58.83 mV
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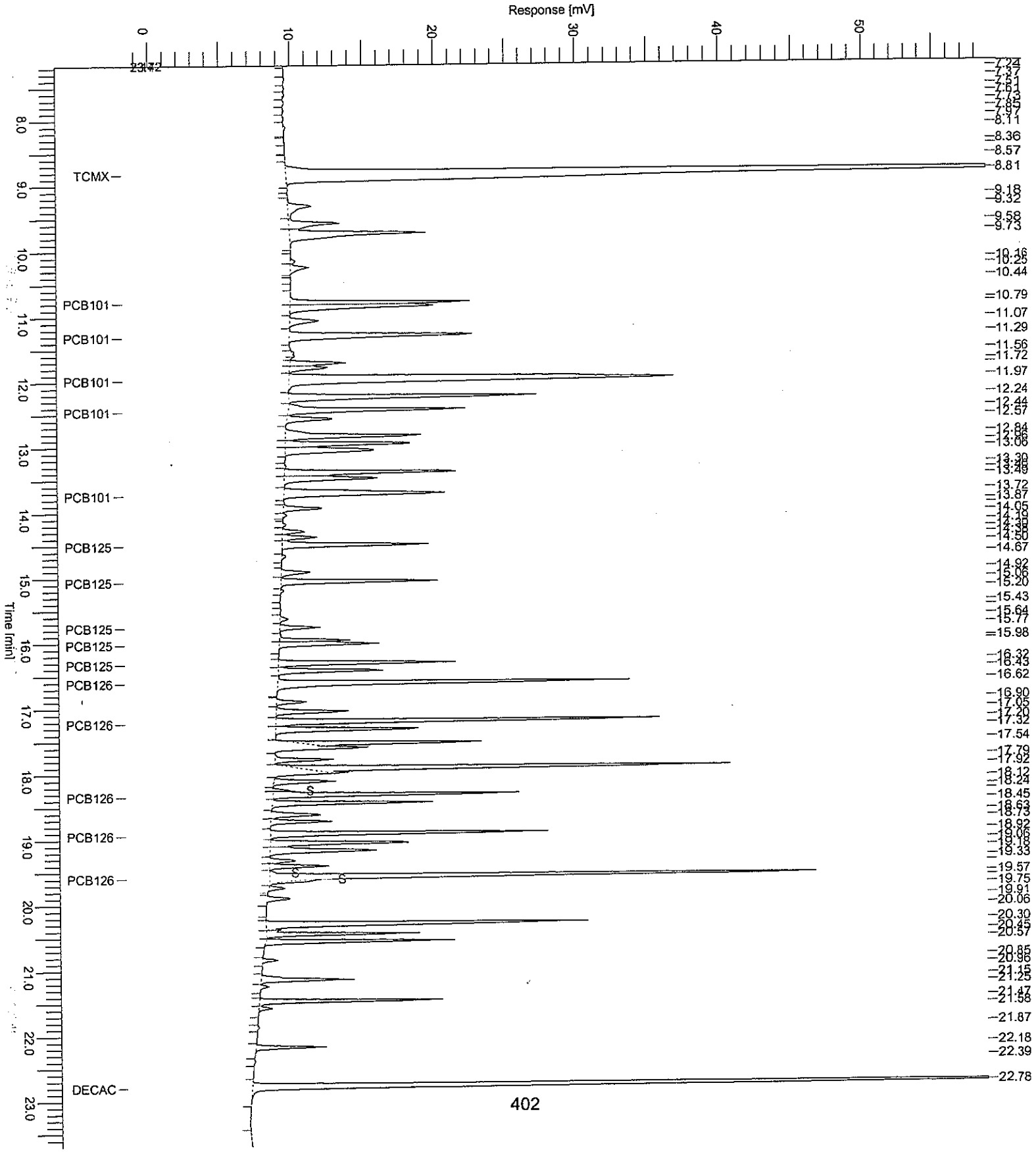

GC22 Rtx-CLPesticides II

ımple Name : ical,04ws1791,pcb750_150 Sample #: 250ug/l
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ıte : 11/9/04 9:20:27 AM
ethod : gc22ins Time of Injection: 11/8/04 11:56:27 PM
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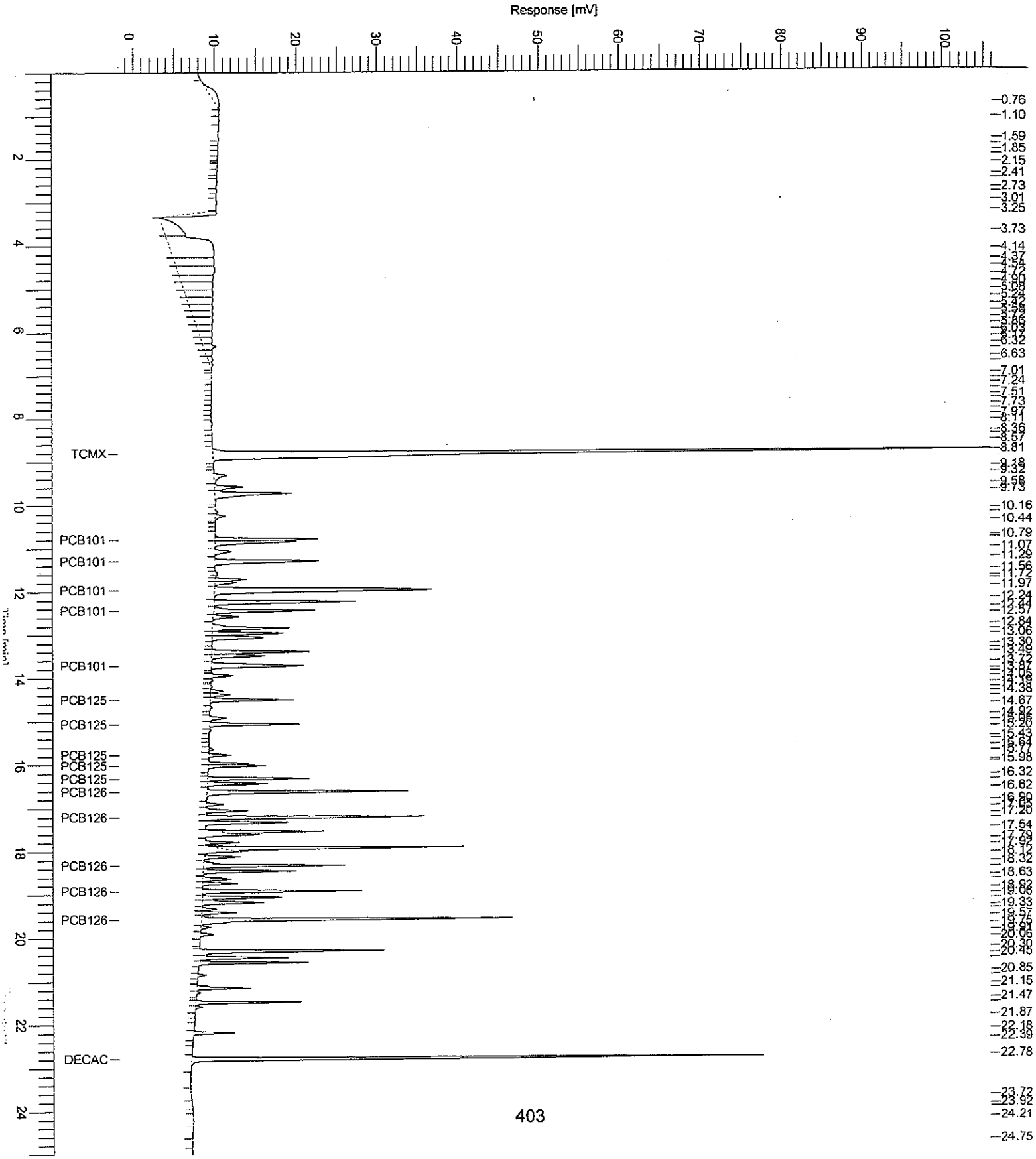

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,pcb1k_200
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 11/9/04 9:11:28 AM
Data Acquisition Time : 11/9/04 12:24:01 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a015p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.117	537477.43	170.5118	1.000	1	170.51	34.10
Aroclor-1016	10.173	269278.65	890.7977	1.000	1	890.80	178.16
Aroclor-1254	15.635	109261.73	0.1093	1.000	1	0.11	0.02
Aroclor-1260	19.023	488557.82	804.4351	1.000	1	804.44	160.89
Decachlorobiphenyl	21.872	239888.96	163.8669	1.000	1	163.87	32.77
		1644464.58	2029.7208			2029.72	405.94

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.173	93412.03	895.1612	1.000	1	895.16	179.03
PCB1016#2	11.970	53299.16	892.2450	1.000	1	892.24	178.45
PCB1016#3	12.448	32471.42	889.1580	1.000	1	889.16	177.83
PCB1016#4	12.880	55095.22	862.4534	1.000	1	862.45	172.49
PCB1016#5	13.102	35000.81	925.9508	1.000	1	925.95	185.19
		269278.65	4464.9683			4464.97	892.99

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.970	9695.05	124.1391	1.000	1	124.14	24.83
PCB1254#2	14.518	43006.26	316.4878	1.000	1	316.49	63.30
PCB1254#3	15.338	400.20	4.6657	1.000	1	4.67	0.93
PCB1254#4	15.635	42765.56	299.4998	1.000	1	299.50	59.90
PCB1254#5	16.234	13394.65	131.4570	1.000	1	131.46	26.29
		109261.73	876.2494			876.25	175.25

FA 11/09/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.984	84849.94	797.2592	1.000	1	797.26	159.45
PCB1260#2	16.674	127217.08	800.0024	1.000	1	800.00	160.00
PCB1260#3	17.650	61553.41	812.1098	1.000	1	812.11	162.42
PCB1260#4	18.267	69205.30	812.7375	1.000	1	812.74	162.55
PCB1260#5	19.023	145732.08	805.4294	1.000	1	805.43	161.09
		488557.82	4027.5384			4027.54	805.51

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Report stored in ASCII file: G:\gc22\CHA\314a015p.TX0

GC22 Rtx-CLPesticides

ample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHa\314a015.raw
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ethod :
Time of Injection: 11/9/04 12:24:01 AM
tart Time : 7.17 min End Time : 22.57 min Low Point : -2.67 mV High Point : 101.03 mV
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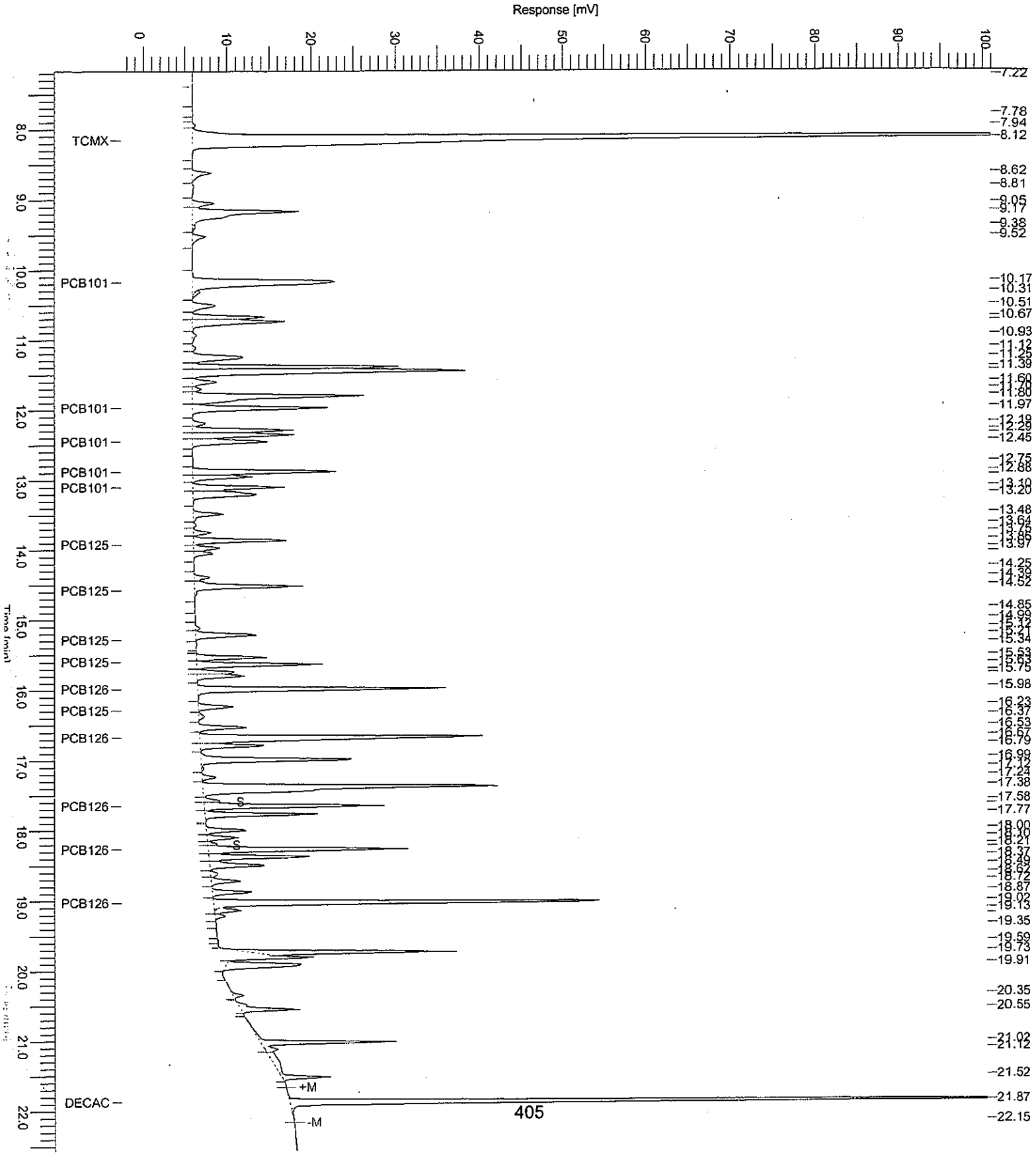
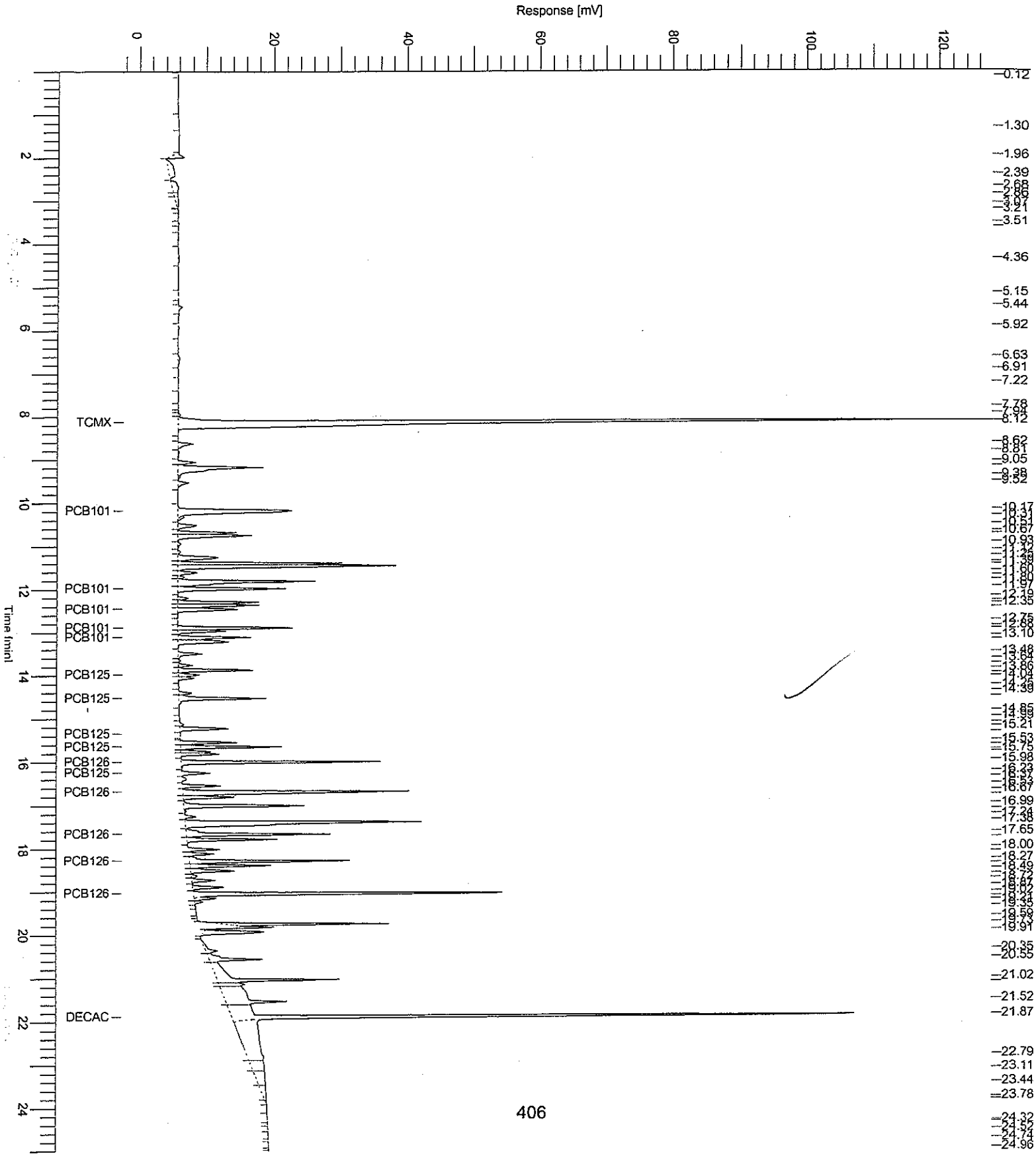


GC22 Rtx-CLPesticides

Sample Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc22\CHa\314a015.raw
Date : 11/9/04 8:59:03 AM
Method : gc22ins Time of Injection: 11/9/04 12:24:01 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -2.34 mV High Point : 127.99 mV
Scale Factor: 1.0 Plot Offset: -2.34 mV Plot Scale: 130.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1792,pcb1k_200
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 11/9/04 9:35:27 AM
Data Acquisition Time : 11/9/04 12:24:01 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b015p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.809	518418.10	133.6707	1.000	1	133.67	26.73
Aroclor-1016	11.974	394617.29	723.3104	1.000	1	723.31	144.66
Aroclor-1254	16.316	155867.40	0.1559	1.000	1	0.16	0.03
Aroclor-1260	19.572	456786.87	739.2879	1.000	1	739.29	147.86
Decachlorobiphenyl	22.783	235474.00	161.1768	1.000	1	161.18	32.24
		1761163.66	1757.6017			1757.60	351.52

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.794	46711.88	708.5819	1.000	1	708.58	141.72
PCB1016#2	11.297	61367.00	722.2994	1.000	1	722.30	144.46
PCB1016#3	11.974	175276.50	710.1352	1.000	1	710.14	142.03
PCB1016#4	12.439	52409.41	750.5100	1.000	1	750.51	150.10
PCB1016#5	13.718	58852.50	754.1866	1.000	1	754.19	150.84
		394617.29	3645.7130			3645.71	729.14

FA
11/09/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.503	38893.24	370.6843	1.000	1	370.68	74.14
PCB1254#2	15.066	38397.74	270.9776	1.000	1	270.98	54.20
PCB1254#3	15.768	9582.00	96.6388	1.000	1	96.64	19.33
PCB1254#4	16.015	26890.86	154.9162	1.000	1	154.92	30.98
PCB1254#5	16.316	42103.56	1210.7124	1.000	1	1210.71	242.14
		155867.40	2103.9293			2103.93	420.79

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.618	91434.00	732.4209	1.000	1	732.42	146.48
PCB1260#2	17.204	94173.67	734.4213	1.000	1	734.42	146.88
PCB1260#3	18.321	60072.12	743.9907	1.000	1	743.99	148.80
PCB1260#4	18.918	66393.00	730.3676	1.000	1	730.37	146.07
PCB1260#5	19.572	144714.08	749.1890	1.000	1	749.19	149.84
		456786.87	3690.3894			3690.39	738.08

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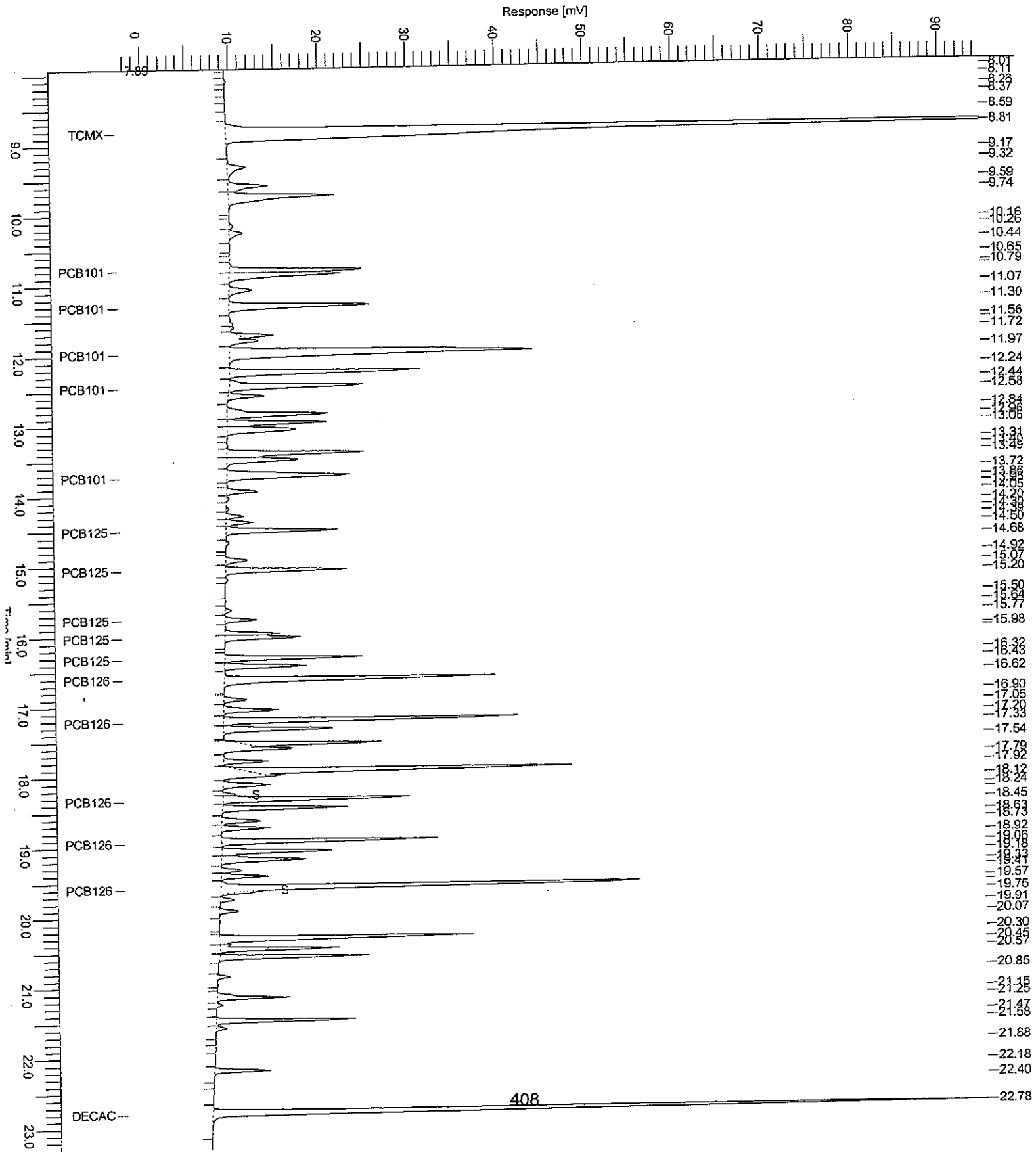
Report stored in ASCII file: G:\gc22\CHB\314b015p.TX0

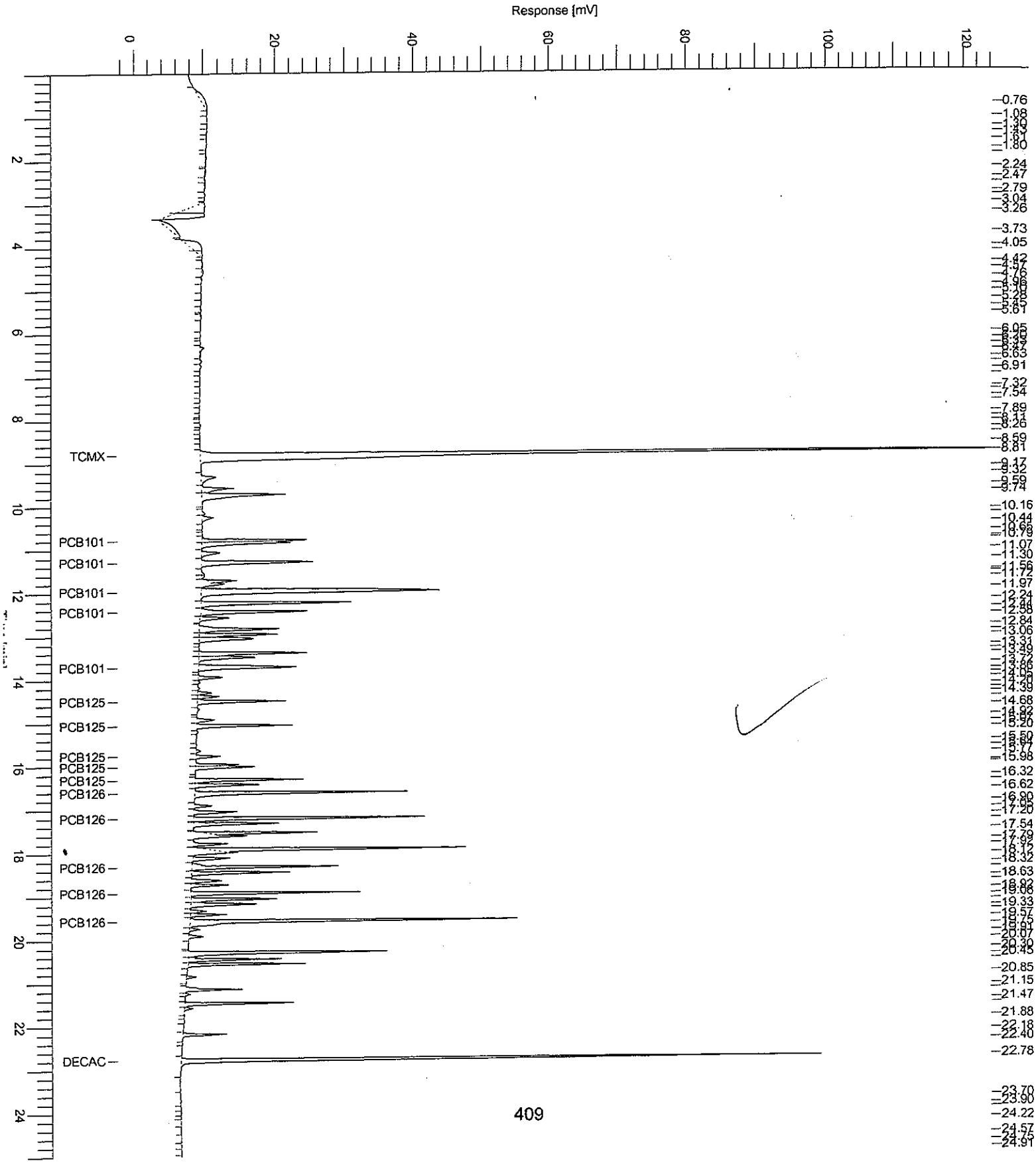
GC22 Rtx-CLPesticides II

nple Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l
Name : G:\gc22\CHb\314b015.raw
e : 11/9/04 9:35:33 AM
lhod :
Time of Injection: 11/9/04 12:24:01 AM
rt Time : 7.93 min End Time : 23.30 min Low Point : -2.77 mV High Point : 94.75 mV
t Offset: -2.77 mV Plot Scale: 97.5 mV



GC22 Rtx-CLPesticides II

mple Name : ical,04ws1792,pcb1k_200 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHb\314b015
te : 11/9/04 9:20:37 AM
thod : gc22ins Time of Injection: 11/9/04 12:24:01 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -2.46 mV High Point : 124.30 mV
ale Factor: 1.0 Plot Offset: -2.46 mV Plot Scale: 126.8 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254452018018
Calnum : 254452018001
Standards: 04WS1609

Run Name : accu_1660
Filename : 314_018
Caldate : 08-NOV-2004

Injected : 09-NOV-2004 01:46
Caltype :

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aroclor-1016	A	250.0000	254.1437	pg	2	15	
Aroclor-1260	A	250.0000	250.6856	pg	0	15	
TCMX	A	50.00000	44.91309	pg	-10	15	
Decachlorobiphenyl	A	50.00000	42.92255	pg	-14	15	
Aroclor-1016	B	250.0000	262.5749	pg	5	15	
Aroclor-1260	B	250.0000	247.7568	pg	-1	15	
TCMX	B	50.00000	47.76696	pg	-4	15	
Decachlorobiphenyl	B	50.00000	44.12119	pg	-12	15	

mcs 11/9/04

Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1609,accu_1660
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 11/9/04 10:08:33 AM
Data Acquisition Time : 11/9/04 1:46:52 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a018p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.113	137193.92	44.9131	1.000	1	44.91	8.98
Aroclor-1016	10.163	76644.92	254.2378	1.000	1	254.24	50.85
Aroclor-1254	15.632	35706.12	0.0357	1.000	1	0.04	0.01
Aroclor-1260	19.022	139800.22	250.9313	1.000	1	250.93	50.19
Decachlorobiphenyl	21.871	54957.17	42.9225	1.000	1	42.92	8.58
		444302.36	593.0405			593.04	118.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.163	26857.00	254.1690	1.000	1	254.17	50.83
PCB1016#2	11.966	14957.81	251.0765	1.000	1	251.08	50.22
PCB1016#3	12.445	9174.25	253.9687	1.000	1	253.97	50.79
PCB1016#4	12.872	16090.85	257.9301	1.000	1	257.93	51.59
PCB1016#5	13.099	9565.02	253.5748	1.000	1	253.57	50.71
		76644.92	1270.7191			1270.72	254.14

FA 11/09/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.967	2552.02	32.6770	1.000	1	32.68	6.54
PCB1254#2	14.515	11418.11	84.0271	1.000	1	84.03	16.81
PCB1254#3	15.207	6802.10	79.3014	1.000	1	79.30	15.86
PCB1254#4	15.632	11449.69	80.1855	1.000	1	80.19	16.04
PCB1254#5	16.232	3484.21	34.1945	1.000	1	34.19	6.84
		35706.12	310.3856			310.39	62.08

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.982	24781.00	248.1666	1.000	1	248.17	49.63
PCB1260#2	16.672	37068.69	247.4873	1.000	1	247.49	49.50
PCB1260#3	17.648	17367.06	249.8636	1.000	1	249.86	49.97
PCB1260#4	18.266	19471.42	252.2023	1.000	1	252.20	50.44
PCB1260#5	19.022	41112.05	255.7080	1.000	1	255.71	51.14
		139800.22	1253.4278			1253.43	250.69

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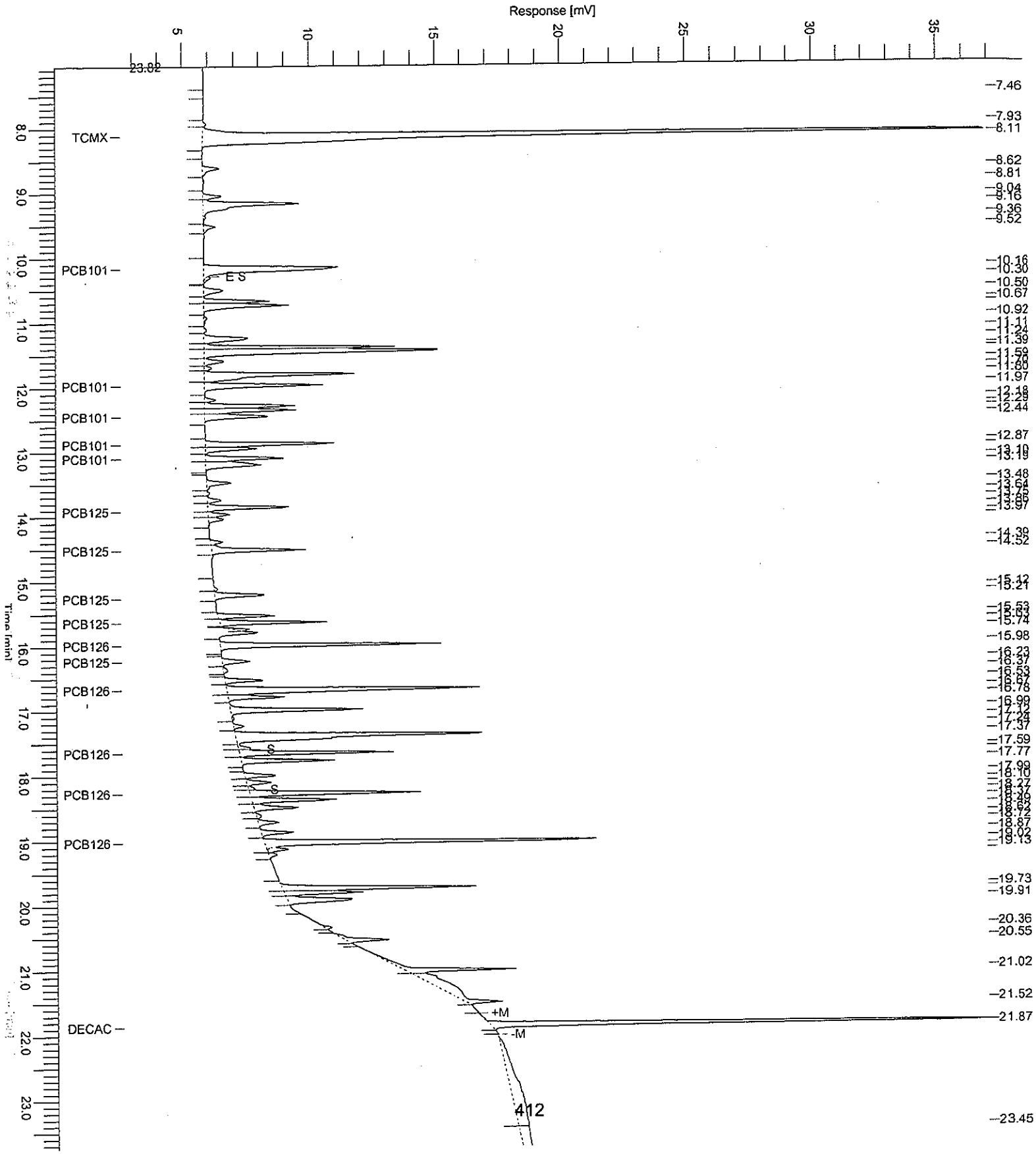
Report stored in ASCII file: G:\gc22\CHA\314a018p.TX0

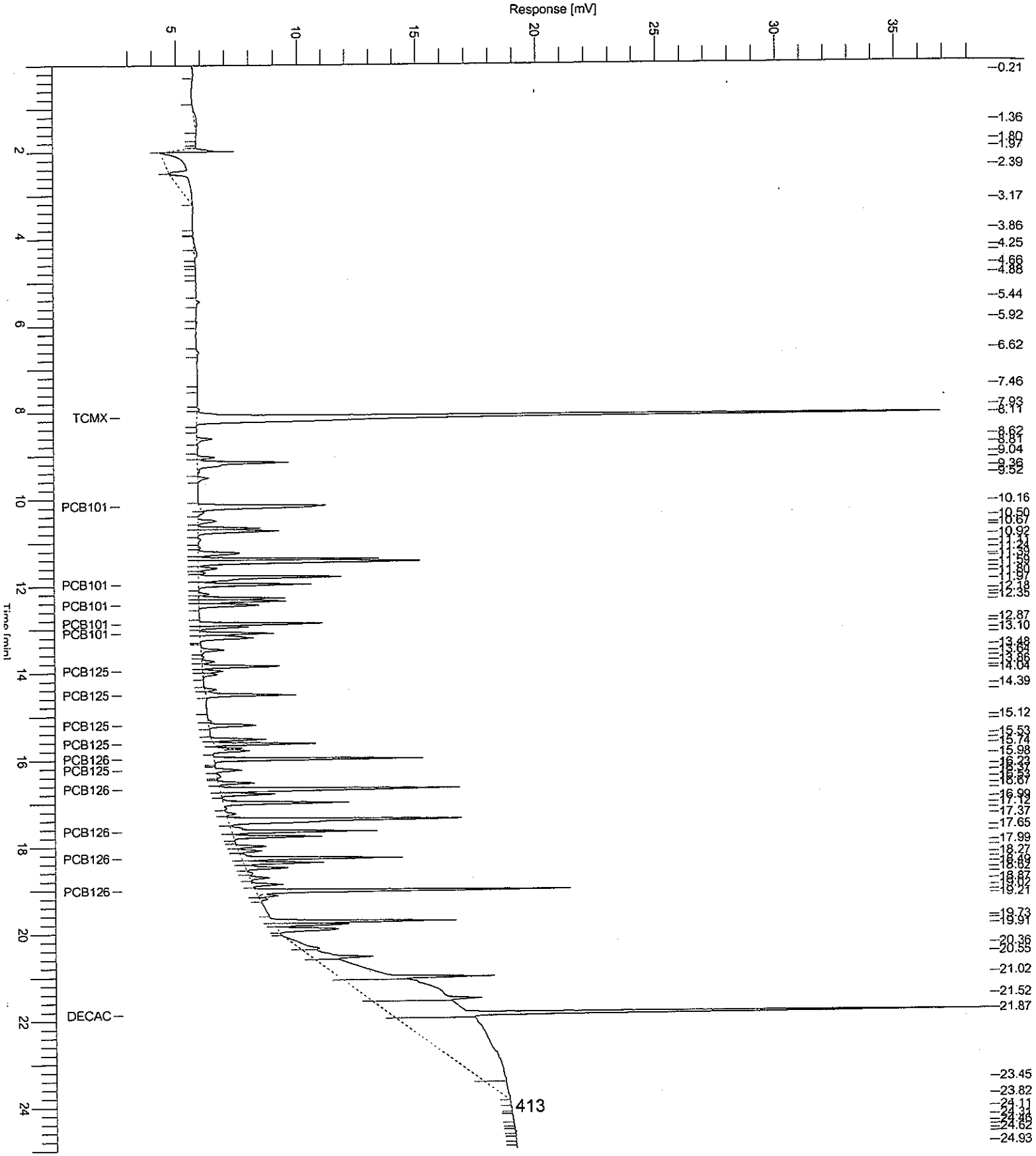
GC22 Rtx-CLPesticides

ample Name : icv,04ws1609,accu_1660 Sample #: 250ug/l
leName : G:\gc22\CHa\314a018.raw
ate : 11/9/04 10:08:39 AM
ethod :
Time of Injection: 11/9/04 1:46:52 AM
tart Time : 7.05 min End Time : 23.75 min Low Point : 2.53 mV High Point : 37.02 mV
lot Offset: 2.53 mV Plot Scale: 34.5 mV



GC22 Rtx-CLPesticides

ample Name : icv,04ws1609,accu_1660 Sample #: 250ug/l
leName : G:\gc22\CHa\314a018.raw
ate : 11/9/04 10:05:47 AM
ethod : gc22ins Time of Injection: 11/9/04 1:46:52 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.62 mV High Point : 38.93 mV
cale Factor: 1.0 Plot Offset: 2.62 mV Plot Scale: 36.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws1609,accu_1660
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 11/9/04 10:09:44 AM
Data Acquisition Time : 11/9/04 1:46:52 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b018p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.807	141311.64	47.7670	1.000	1	47.77	9.55
Aroclor-1016	11.966	119832.23	260.1818	1.000	1	260.18	52.04
Aroclor-1254	16.315	46644.22	0.0466	1.000	1	0.05	0.01
Aroclor-1260	19.571	139891.93	247.4863	1.000	1	247.49	49.50
Decachlorobiphenyl	22.782	62253.00	44.1212	1.000	1	44.12	8.82
		509933.02	599.6029			599.60	119.92

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.792	14362.31	283.1749	1.000	1	283.17	56.63
PCB1016#2	11.292	19014.22	263.3296	1.000	1	263.33	52.67
PCB1016#3	11.966	53586.00	257.3973	1.000	1	257.40	51.48
PCB1016#4	12.438	15415.08	261.1810	1.000	1	261.18	52.24
PCB1016#5	13.716	17454.62	247.7917	1.000	1	247.79	49.56
		119832.23	1312.8746			1312.87	262.57

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.502	11772.53	112.2018	1.000	1	112.20	22.44
PCB1254#2	15.065	11703.22	82.5911	1.000	1	82.59	16.52
PCB1254#3	15.767	2770.00	27.9367	1.000	1	27.94	5.59
PCB1254#4	16.015	7638.67	44.0058	1.000	1	44.01	8.80
PCB1254#5	16.315	12759.80	366.9155	1.000	1	366.92	73.38
		46644.22	633.6509			633.65	126.73

Group Report For : Aroclor-1260

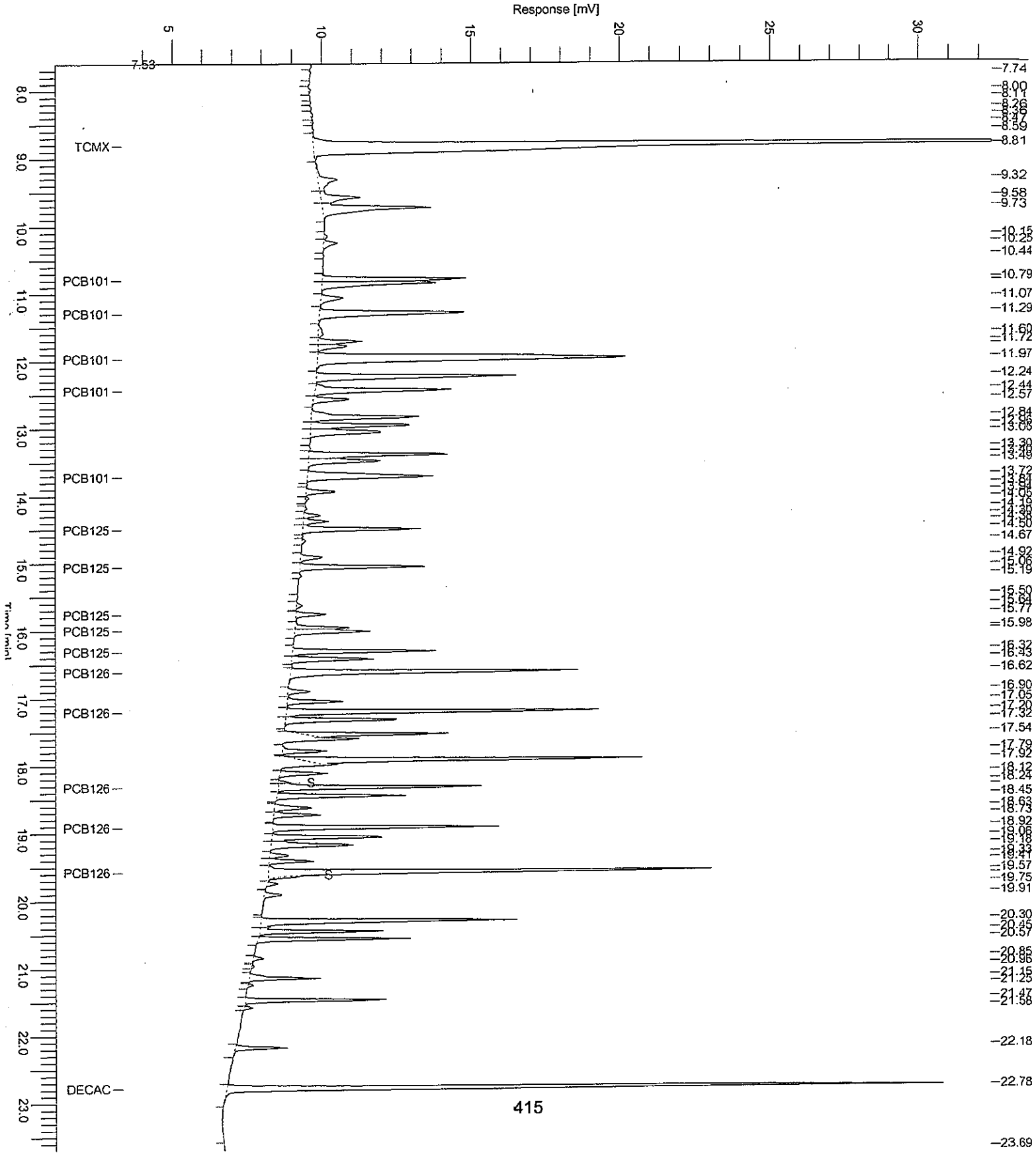
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.618	28064.00	245.1006	1.000	1	245.10	49.02
PCB1260#2	17.203	29211.59	248.1922	1.000	1	248.19	49.64
PCB1260#3	18.320	18719.34	251.8290	1.000	1	251.83	50.37
PCB1260#4	18.917	20195.00	246.4438	1.000	1	246.44	49.29
PCB1260#5	19.571	43702.00	247.2186	1.000	1	247.22	49.44
		139891.93	1238.7842			1238.78	247.76

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\314b018p.TX0

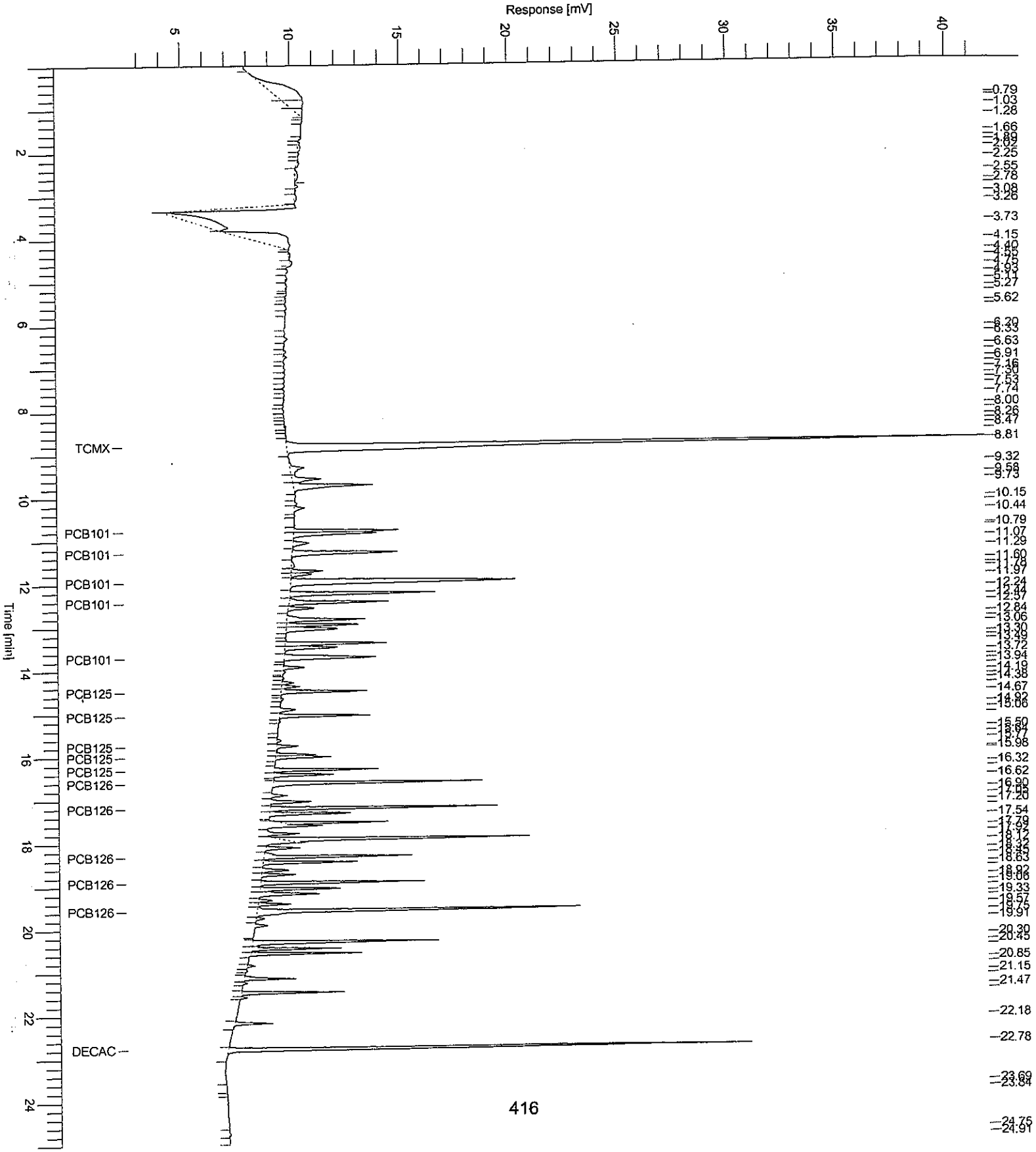
GC22 Rtx-CLPesticides II

ample Name : icv,04ws1609,accu_1660 Sample #: 250ug/l
leName : G:\gc22\CHb\314b018.raw
ate : 11/9/04 10:09:49 AM
ethod : Time of Injection: 11/9/04 1:46:52 AM
tart Time : 7.60 min End Time : 23.70 min Low Point : 3.29 mV High Point : 32.45 mV
lot Offset: 3.29 mV Plot Scale: 29.2 mV



GC22 Rtx-CLPesticides II

ample Name : icv,04ws1609,accu_1660 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHb\314b018
ate : 11/9/04 10:05:33 AM
ethod : gc22ins Time of Injection: 11/9/04 1:46:52 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.24 mV High Point : 41.79 mV
cale Factor: 1.0 Plot Offset: 2.24 mV Plot Scale: 39.6 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC22 Gas Chromatograph #22 ECD Reviewed By: [illegible] 11/9/04
Calnum: 254452018002 Name: Type: (normal) Date: 09-NOV-2004 02:42 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	314_020	254452018020	ar1254	09-NOV-2004 02:42	04WS2063

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	66.208	AVRG	R		0.015104		pg	66.208	0	—	.99	20	
Aroclor-1254 Peak # 2	A	114.42	AVRG	R		0.008740		pg	114.42	0	—	.99	20	
Aroclor-1254 Peak # 3	A	71.483	AVRG	R		0.013989		pg	71.483	0	—	.99	20	
Aroclor-1254 Peak # 4	A	117.76	AVRG	R		0.008492		pg	117.76	0	—	.99	20	
Aroclor-1254 Peak # 5	A	81.448	AVRG	R		0.012278		pg	81.448	0	—	.99	20	
Aroclor-1254 Peak # 1	B	76.993	AVRG	R		0.012988		pg	76.993	0	—	.99	20	
Aroclor-1254 Peak # 2	B	105.25	AVRG	R		0.009501		pg	105.25	0	—	.99	20	
Aroclor-1254 Peak # 3	B	73.318	AVRG	R		0.013639		pg	73.318	0	—	.99	20	
Aroclor-1254 Peak # 4	B	128.20	AVRG	R		0.007800		pg	128.20	0	—	.99	20	
Aroclor-1254 Peak # 5	B	26.164	AVRG	R		0.038220		pg	26.164	0	—	.99	20	

417

FA 11/09/04

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254452018020
Calnum : 254452018002
Standards: 04WS2063

Run Name : ar1254
Filename : 314_020
Caldate : 09-NOV-2004

IDF : 1.0
Injected : 09-NOV-2004 02:42
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	250.0000	pg	0	15	
Aroclor-1254	B			250.0000	250.0000	pg	0	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2063,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 11/9/04 11:26:39 AM
Data Acquisition Time : 11/9/04 2:42:07 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\314a020p.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.116	126948.50	41.5591	1.000	1	41.56	8.31
Aroclor-1016	12.879	11042.13	36.6277	1.000	1	36.63	7.33
Aroclor-1254	15.533	112828.49	0.1128	1.000	1	0.11	0.02
Aroclor-1260	16.685	36020.11	64.6535	1.000	1	64.65	12.93
Decachlorobiphenyl	21.871	57035.79	44.5460	1.000	1	44.55	8.91
		343875.02	187.4991			187.50	37.50

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.170	466.00	4.4101	1.000	1	4.41	0.88
PCB1016#2	11.970	384.97	6.4620	1.000	1	6.46	1.29
PCB1016#3	12.443	414.00	11.4607	1.000	1	11.46	2.29
PCB1016#4	12.879	7203.00	115.4613	1.000	1	115.46	23.09
PCB1016#5	13.101	2574.16	68.2426	1.000	1	68.24	13.65
		11042.13	206.0367			206.04	41.21

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.863	16551.99	211.9379	1.000	1	211.94	42.39
PCB1254#2	14.516	28604.12	210.5008	1.000	1	210.50	42.10
PCB1254#3	15.228	17870.85	208.3451	1.000	1	208.35	41.67
PCB1254#4	15.533	29439.64	206.1744	1.000	1	206.17	41.23
PCB1254#5	16.230	20361.88	199.8345	1.000	1	199.83	39.97
		112828.49	1036.7928			1036.79	207.36

FA 11/10/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.985	10230.76	102.4548	1.000	1	102.45	20.49
PCB1260#2	16.685	19046.01	127.1598	1.000	1	127.16	25.43
PCB1260#3	17.597	3190.26	45.8990	1.000	1	45.90	9.18
PCB1260#4	18.269	870.00	11.2686	1.000	1	11.27	2.25
PCB1260#5	19.030	2683.07	16.6881	1.000	1	16.69	3.34
		36020.11	303.4704			303.47	60.69

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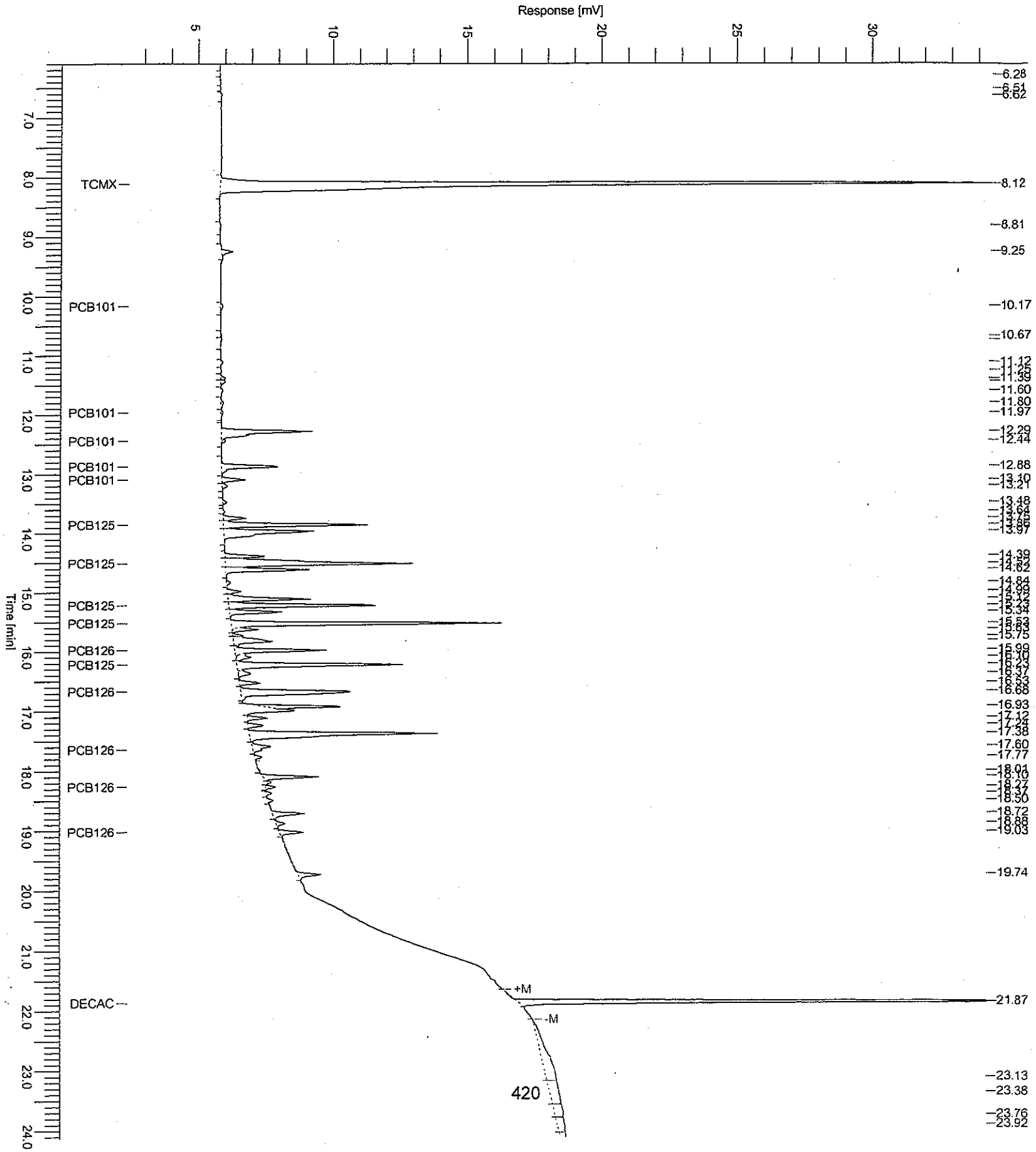
Report stored in ASCII file: G:\gc22\CHA\314a020p.TX0

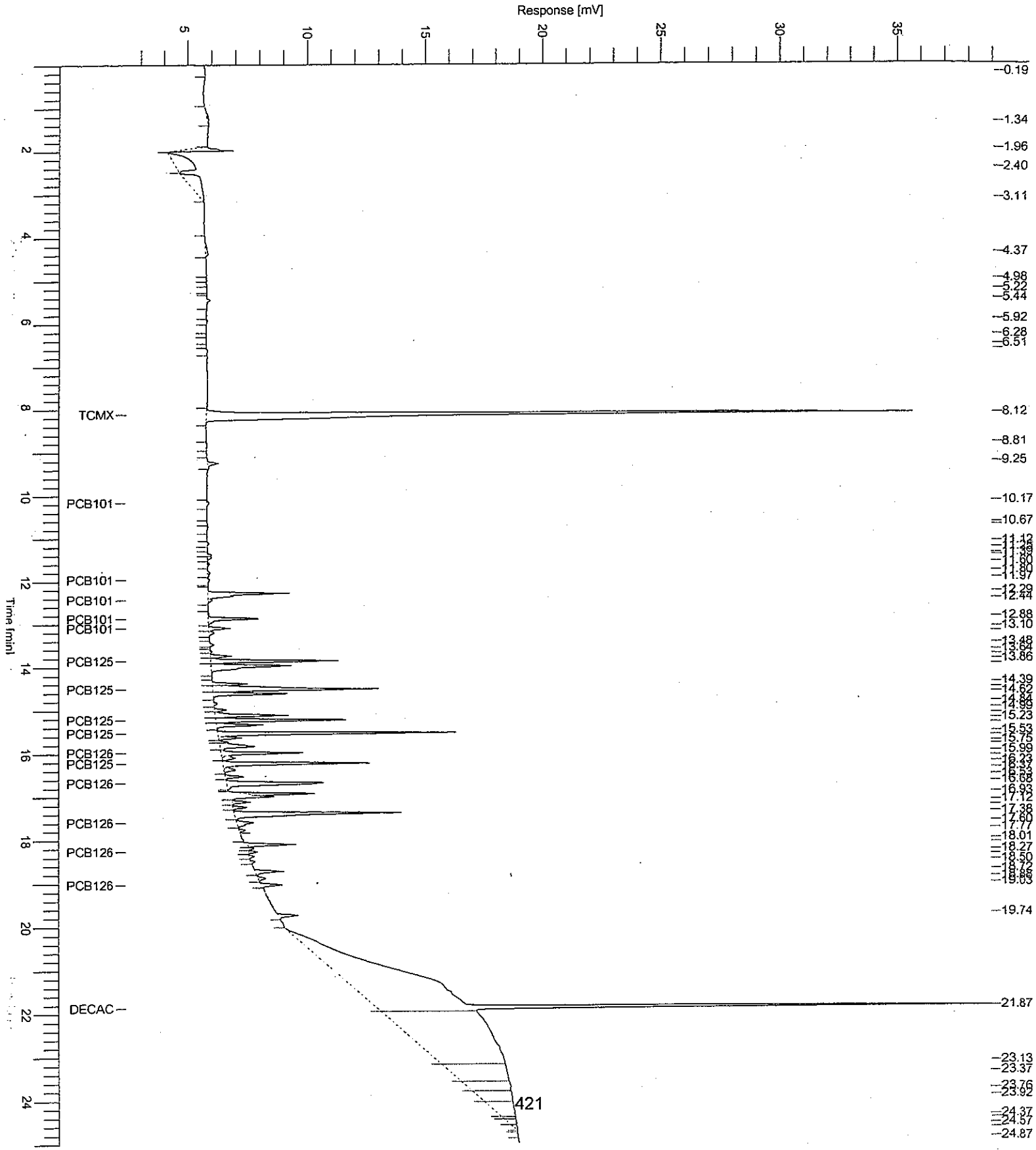
GC22 Rtx-CLPesticides

ample Name : ccv,04ws2063,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHa\314a020.raw
ate : 11/9/04 11:26:46 AM
ethod :
Time of Injection: 11/9/04 2:42:07 AM
tart Time : 6.10 min End Time : 24.13 min Low Point : 2.42 mV High Point : 34.48 mV
lot Offset: 2.42 mV Plot Scale: 32.1 mV



GC22 Rtx-CLPesticides

ample Name : ccv,04ws2063,ar1254 Sample #: 250ug/l
leName : G:\gc22\CHa\314a020.raw
ate : 11/9/04 11:25:42 AM
ethod : gc22ins Time of Injection: 11/9/04 2:42:07 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.40 mV High Point : 39.07 mV
cale Factor: 1.0 Plot Offset: 2.40 mV Plot Scale: 36.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2063,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 11/9/04 11:25:22 AM
Data Acquisition Time : 11/9/04 2:42:07 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\314b020.rst
Sequence File : G:\gc22\files\314.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.815	124564.26	42.1059	1.000	1	42.11	8.42
Aroclor-1016	13.720	4307.17	9.3518	1.000	1	9.35	1.87
Aroclor-1254	16.027	102481.74	0.1025	1.000	1	0.10	0.02
Aroclor-1260	16.660	47210.51	83.5213	1.000	1	83.52	16.70
Decachlorobiphenyl	22.783	64931.00	46.0192	1.000	1	46.02	9.20
		343494.67	181.1007			181.10	36.22

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.788	148.50	2.9279	1.000	1	2.93	0.59
PCB1016#2	11.293	335.00	4.6394	1.000	1	4.64	0.93
PCB1016#3	11.952	847.00	4.0685	1.000	1	4.07	0.81
PCB1016#4	12.444	0.00	0.0000	1.000	1	0.00	0.00
PCB1016#5	13.720	2976.67	42.2578	1.000	1	42.26	8.45
		4307.17	53.8936			53.89	10.78

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.506	19248.36	183.4526	1.000	1	183.45	36.69
PCB1254#2	15.068	26313.12	185.6949	1.000	1	185.69	37.14
PCB1254#3	15.770	18329.56	184.8618	1.000	1	184.86	36.97
PCB1254#4	16.027	32049.60	184.6353	1.000	1	184.64	36.93
PCB1254#5	16.329	6541.11	188.0933	1.000	1	188.09	37.62
		102481.74	926.7380			926.74	185.35

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.660	30139.79	263.2297	1.000	1	263.23	52.65
PCB1260#2	17.211	11325.94	96.2293	1.000	1	96.23	19.25
PCB1260#3	18.320	1181.53	15.8950	1.000	1	15.90	3.18
PCB1260#4	18.920	1430.25	17.4536	1.000	1	17.45	3.49
PCB1260#5	19.580	3133.00	17.7231	1.000	1	17.72	3.54
		47210.51	410.5307			410.53	82.11

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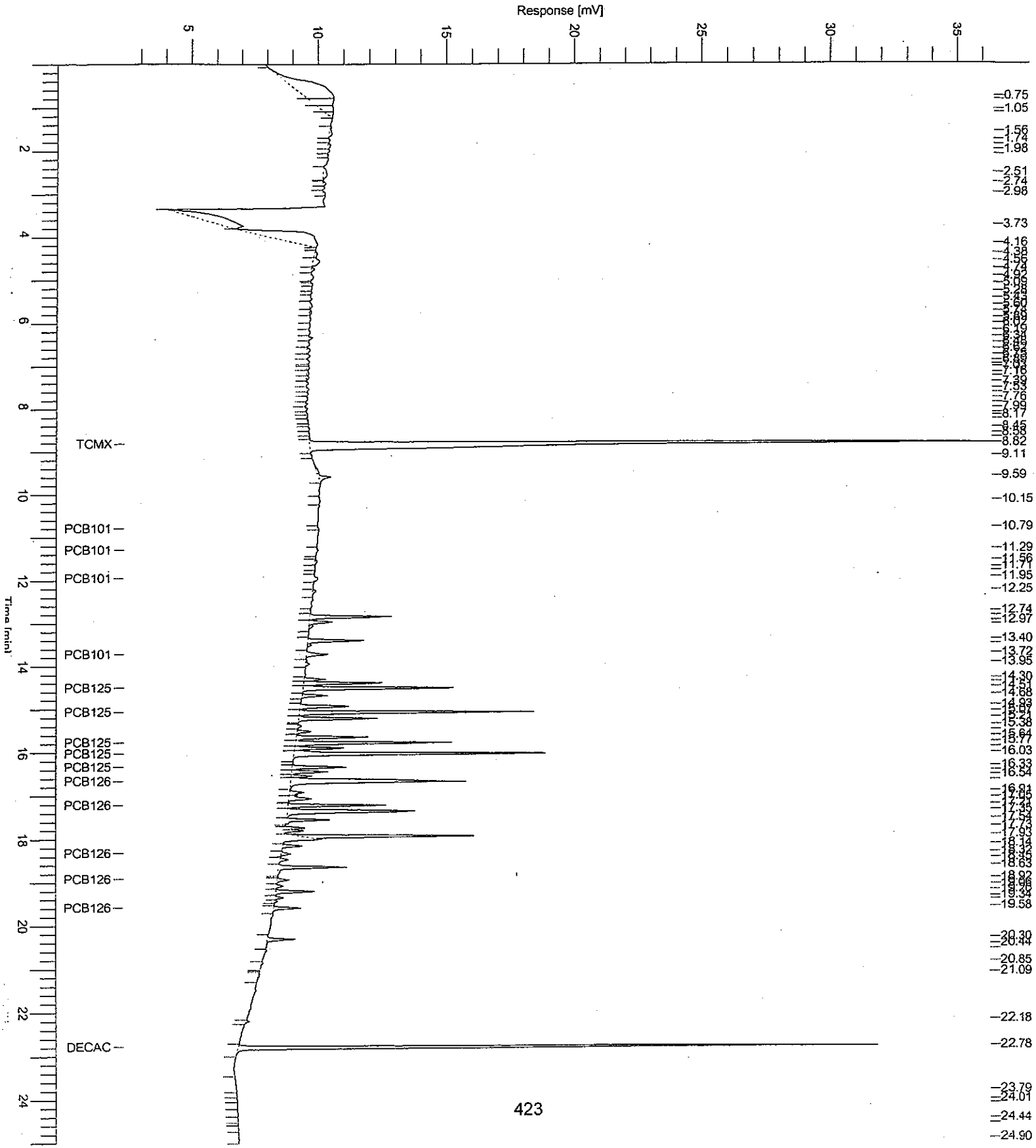
Report stored in ASCII file: G:\gc22\CHB\314b020.TX0

GC22 Rtx-CLPesticides II

ample Name : ccv,04ws2063,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHb\314b020
ate : 11/9/04 11:25:26 AM
ethod : gc22ins Time of Injection: 11/9/04 2:42:07 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.42 mV High Point : 36.45 mV
cale Factor: 1.0 Plot Offset: 2.42 mV Plot Scale: 34.0 mV



Turbochrom Method File G:\gc22\files\5460a315.mth
Printed by : analyst on: 11/10/04 9:15:54 AM
Created by : analyst on: 11/10/04 9:05:23 AM
Edited by : analyst on: 11/10/04 9:15:49 AM
Number of Times Edited : 2
Number of Times Calibrated : 174
Description: gc 22

54 [illegible] 11/10/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 8.101 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	7370.50	1674.03	----------	----------	1
2	5.0000	18156.50	4048.29	----------	----------	1
3	20.0000	63211.71	13747.67	----------	----------	1
4	50.0000	137653.52	28376.09	----------	----------	1
5	100.0000	259380.84	59109.15	----------	----------	1
6	150.0000	430675.66	96781.66	----------	----------	1
7	200.0000	537477.43	114124.87	----------	----------	1

PA 11/10/04

Average Calibration Factor = 3054.653227 (%RSD = 14.72)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 10.172 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Calibration Level Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1262.00	237.49	----------	----------	1
2	25.0000	2956.00	598.78	----------	----------	1
3	100.0000	11127.00	2192.33	----------	----------	1
4	250.0000	24633.50	4729.58	----------	----------	1
5	500.0000	45850.00	9087.43	----------	----------	1
6	750.0000	75229.00	14592.96	----------	----------	1
7	1000.0000	93412.03	17615.74	----------	----------	1

Average Calibration Factor = 105.665910 (%RSD = 12.44)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 11.970 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	643.07	187.71	----------	----------	1
2	25.0000	1819.59	486.84	----------	----------	1
3	100.0000	6247.27	1763.45	----------	----------	1
4	250.0000	13850.20	3891.05	----------	----------	1
5	500.0000	25678.60	7375.05	----------	----------	1
6	750.0000	43051.64	12519.76	----------	----------	1
7	1000.0000	53299.16	15068.41	----------	----------	1

Average Calibration Factor = 59.574686 (%RSD = 12.53)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 12.447 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	399.70	108.85	----------	----------	1
2	25.0000	1059.58	276.85	----------	----------	1
3	100.0000	3798.25	1004.58	----------	----------	1
4	250.0000	8403.21	2262.01	----------	----------	1
5	500.0000	15650.63	4244.39	----------	----------	1
6	750.0000	26358.16	7053.96	----------	----------	1
7	1000.0000	32471.42	8640.37	----------	----------	1

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Average Calibration Factor = 36.123560 (%RSD = 11.37)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	3477.43	881.81	----------	----------	1
2	25.0000	8759.89	2256.04	----------	----------	1
3	100.0000	31239.81	8133.04	----------	----------	1
4	250.0000	70523.63	17855.55	----------	----------	1
5	500.0000	129605.94	33697.87	----------	----------	1
6	750.0000	216872.98	55351.34	----------	----------	1
7	1000.0000	269278.65	67580.33	----------	----------	1

Average Calibration Factor = 301.469369 (%RSD = 12.11)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 12.880 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	762.32	229.79	----------	----------	1
2	25.0000	1825.50	577.88	----------	----------	1
3	100.0000	6207.01	2054.52	----------	----------	1
4	250.0000	14688.76	4386.09	----------	----------	1
5	500.0000	25803.43	8143.83	----------	----------	1
6	750.0000	44934.36	12998.11	----------	----------	1
7	1000.0000	55095.22	16190.98	----------	----------	1

Average Calibration Factor = 62.384533 (%RSD = 14.54)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 13.101 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	410.34	117.97	----------	----------	1
2	25.0000	1099.23	315.69	----------	----------	1
3	100.0000	3860.28	1118.16	----------	----------	1
4	250.0000	8947.96	2586.82	----------	----------	1
5	500.0000	16623.29	4847.17	----------	----------	1
6	750.0000	27299.82	8186.55	----------	----------	1
7	1000.0000	35000.81	10064.83	----------	----------	1

Average Calibration Factor = 37.720680 (%RSD = 9.90)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 13.847 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	18171.91	5521.40	----------	----------	1

Average Calibration Factor = 72.687653 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 14.500 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	31586.75	7016.37	----------	----------	1

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Average Calibration Factor = 126.346998 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 15.212 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	19649.73	5724.18	----------	----------	1

Average Calibration Factor = 78.598901 (%RSD = 0.00)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 15.518 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	32364.30	9919.81	----------	----------	1

Average Calibration Factor = 129.457217 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

PCB1260#1
Component Type : Single Peak Component
Retention Time : 15.985 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1215.45	381.26	----------	----------	1
2	25.0000	3019.54	946.80	----------	----------	1
3	100.0000	10696.24	3368.20	----------	----------	1
4	250.0000	22642.00	7253.94	----------	----------	1
5	500.0000	41167.31	12993.66	----------	----------	1
6	750.0000	68964.45	22065.49	----------	----------	1
7	1000.0000	84849.94	27044.73	----------	----------	1

Average Calibration Factor = 99.856319 (%RSD = 16.56)

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.214 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	22328.43	6299.96	----------	----------	1

Average Calibration Factor = 89.313735 (%RSD = 0.00)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	6394.89	1932.07	----------	----------	1
2	25.0000	16461.19	4923.61	----------	----------	1
3	100.0000	60283.92	18059.61	----------	----------	1
4	250.0000	128532.88	38075.88	----------	----------	1
5	500.0000	233328.86	68636.43	----------	----------	1
6	750.0000	397316.68	117430.43	----------	----------	1
7	1000.0000	488557.82	144329.40	----------	----------	1

Average Calibration Factor = 557.125506 (%RSD = 13.63)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 16.678 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1832.52	470.61	----------	----------	1
2	25.0000	4470.21	1146.47	----------	----------	1
3	100.0000	16154.29	4173.56	----------	----------	1
4	250.0000	34072.79	8579.15	----------	----------	1
5	500.0000	61543.05	15243.66	----------	----------	1
6	750.0000	103697.30	26040.08	----------	----------	1
7	1000.0000	127217.08	31984.86	----------	----------	1

Average Calibration Factor = 149.780134 (%RSD = 16.44)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 17.639 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	843.66	245.92	----------	----------	1
2	25.0000	1929.01	616.07	----------	----------	1
3	100.0000	7309.34	2279.73	----------	----------	1
4	250.0000	16091.90	5115.81	----------	----------	1
5	500.0000	29498.77	9252.37	----------	----------	1
6	750.0000	50253.35	15762.48	----------	----------	1
7	1000.0000	61553.41	19415.21	----------	----------	1

Average Calibration Factor = 69.506154 (%RSD = 13.12)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 18.269 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	877.00	271.26	----------	----------	1
2	25.0000	2215.43	687.59	----------	----------	1
3	100.0000	8321.89	2585.08	----------	----------	1
4	250.0000	17858.86	5632.97	----------	----------	1
5	500.0000	32735.63	10255.83	----------	----------	1
6	750.0000	56093.17	17761.61	----------	----------	1
7	1000.0000	69205.30	21778.01	----------	----------	1

Average Calibration Factor = 77.205574 (%RSD = 12.03)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 19.028 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1626.26	563.01	----------	----------	1
2	25.0000	4827.00	1526.68	----------	----------	1
3	100.0000	17802.16	5653.04	----------	----------	1
4	250.0000	37867.32	11494.01	----------	----------	1
5	500.0000	68384.09	20890.91	----------	----------	1
6	750.0000	118308.41	35800.76	----------	----------	1
7	1000.0000	145732.08	44106.58	----------	----------	1

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Average Calibration Factor = 160.777325 (%RSD = 12.03)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.875 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	27002.38	9759.09	----------	----------	1
4	50.0000	59494.49	20358.50	----------	----------	1
5	100.0000	107093.19	36918.54	----------	----------	1
6	150.0000	189987.73	65850.68	----------	----------	1
7	200.0000	239888.96	82173.94	----------	----------	1
1	2.0000	2794.75	1000.36	----------	----------	1
2	5.0000	7441.57	2613.86	----------	----------	1

Average Calibration Factor = 1280.380294 (%RSD = 11.07)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7370.50	1674.03	2.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18156.50	4048.29	5.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63211.71	13747.67	20.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137653.52	28376.09	50.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
259380.84	59109.15	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
430675.66	96781.66	150.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
537477.43	114124.87	200.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1262.00	237.49	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2956.00	598.78	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11127.00	2192.33	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24633.50	4729.58	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45850.00	9087.43	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75229.00	14592.96	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93412.03	17615.74	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
643.07	187.71	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1819.59	486.84	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6247.27	1763.45	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13850.20	3891.05	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25678.60	7375.05	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
43051.64	12519.76	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53299.16	15068.41	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
399.70	108.85	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1059.58	276.85	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3798.25	1004.58	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8403.21	2262.01	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15650.63	4244.39	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26358.16	7053.96	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32471.42	8640.37	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : Aroclor-1016

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3477.43	881.81	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8759.89	2256.04	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31239.81	8133.04	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70523.63	17855.55	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
129605.94	33697.87	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216872.98	55351.34	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
269278.65	67580.33	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
762.32	229.79	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1825.50	577.88	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6207.01	2054.52	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
14688.76	4386.09	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25803.43	8143.83	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44934.36	12998.11	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
55095.22	16190.98	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1016#5
Level : 1

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
410.34	117.97	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1099.23	315.69	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3860.28	1118.16	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8947.96	2586.82	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16623.29	4847.17	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27299.82	8186.55	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35000.81	10064.83	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
18171.91	5521.40	250.0000	----------	----------	11/10/04	9:15:37 AM	G:\gc22\CHA\315a005p.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31586.75	7016.37	250.0000	----------	----------	11/10/04	9:15:37 AM	G:\gc22\CHA\315a005p.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19649.73	5724.18	250.0000	----------	----------	11/10/04	9:15:37 AM	G:\gc22\CHA\315a005p.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32364.30	9919.81	250.0000	----------	----------	11/10/04	9:15:37 AM	G:\gc22\CHA\315a005p.rst

Component : Aroclor-1254
This component has no calibration levels

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Component : PCB1260#1

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1215.45	381.26	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3019.54	946.80	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
10696.24	3368.20	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22642.00	7253.94	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41167.31	12993.66	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68964.45	22065.49	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84849.94	27044.73	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1254#5

Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22328.43	6299.96	250.0000	----------	----------	11/10/04	9:15:37 AM	G:\gc22\CHA\315a005p.rst

Component : Aroclor-1260

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6394.89	1932.07	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16461.19	4923.61	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60283.92	18059.61	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128532.88	38075.88	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
233328.86	68636.43	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
397316.68	117430.43	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
488557.82	144329.40	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1832.52	470.61	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4470.21	1146.47	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16154.29	4173.56	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34072.79	8579.15	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61543.05	15243.66	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
103697.30	26040.08	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127217.08	31984.86	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
843.66	245.92	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1929.01	616.07	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7309.34	2279.73	100.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16091.90	5115.81	250.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29498.77	9252.37	500.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50253.35	15762.48	750.0000	---------	---------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61553.41	19415.21	1000.0000	---------	---------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
877.00	271.26	10.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2215.43	687.59	25.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8321.89	2585.08	100.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17858.86	5632.97	250.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32735.63	10255.83	500.0000	---------	---------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56093.17	17761.61	750.0000	---------	---------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
69205.30	21778.01	1000.0000	---------	---------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : PCB1260#5
Level : 1

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1626.26	563.01	10.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4827.00	1526.68	25.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17802.16	5653.04	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37867.32	11494.01	250.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68384.09	20890.91	500.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118308.41	35800.76	750.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
145732.08	44106.58	1000.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27002.38	9759.09	20.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59494.49	20358.50	50.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107093.19	36918.54	100.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
189987.73	65850.68	150.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
239888.96	82173.94	200.0000	----------	----------	11/9/04	9:14:16 AM	G:\gc22\CHA\314a015p.rst

Level : 1

11/10/04 9:15:54 AM Method: G:\gc22\files\5460a315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2794.75	1000.36	2.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7441.57	2613.86	5.0000	----------	----------	11/9/04	9:14:15 AM	G:\gc22\CHA\314a010p.rst

Turbochrom Method File G:\gc22\files\5460b315.mth
Printed by : analyst on: 11/10/04 9:17:19 AM
Created by : analyst on: 11/10/04 9:07:42 AM
Edited by : analyst on: 11/10/04 9:17:17 AM
Number of Times Edited : 2
Number of Times Calibrated : 194
Description: gc 22

54 - [illegible] 11/10/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 8.807 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

FA 11/10/04

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	65801.59	14321.39	----------	----------	1
4	50.0000	135822.25	27670.77	----------	----------	1
5	100.0000	255809.23	53641.92	----------	----------	1
6	150.0000	415710.00	89127.22	----------	----------	1
7	200.0000	518418.10	109385.81	----------	----------	1
1	2.0000	7342.36	1619.74	----------	----------	1
2	5.0000	15546.00	3272.82	----------	----------	1

Average Calibration Factor = 2958.355229 (%RSD = 14.00)

PCB1016#1
Component Type : Single Peak Component
Retention Time : 10.798 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	615.74	221.48	----------	----------	1
2	25.0000	1230.96	430.97	----------	----------	1
3	100.0000	5306.13	1952.76	----------	----------	1
4	250.0000	12507.72	3885.30	----------	----------	1
5	500.0000	21866.75	7332.60	----------	----------	1
6	750.0000	38011.75	11877.77	----------	----------	1
7	1000.0000	46711.88	14405.28	----------	----------	1

Average Calibration Factor = 50.718858 (%RSD = 11.12)

PCB1016#2

Component Type : Single Peak Component
Retention Time : 11.299 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	947.25	241.95	----------	----------	1
2	25.0000	1898.12	471.37	----------	----------	1
3	100.0000	8016.94	2105.77	----------	----------	1
4	250.0000	16365.19	4169.32	----------	----------	1
5	500.0000	30909.00	7897.52	----------	----------	1
6	750.0000	49487.52	12441.14	----------	----------	1
7	1000.0000	61367.00	15454.69	----------	----------	1

Average Calibration Factor = 72.206913 (%RSD = 16.90)

PCB1016#3

Component Type : Single Peak Component
Retention Time : 11.971 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2693.37	506.60	----------	----------	1
2	25.0000	5536.00	1068.90	----------	----------	1
3	100.0000	23399.00	4597.46	----------	----------	1
4	250.0000	47980.00	9167.69	----------	----------	1
5	500.0000	88655.50	17018.96	----------	----------	1
6	750.0000	141010.00	26415.06	----------	----------	1
7	1000.0000	175276.50	33439.08	----------	----------	1

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Average Calibration Factor = 208.183964 (%RSD = 16.74)

PCB1016#4
Component Type : Single Peak Component
Retention Time : 12.443 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	759.35	214.98	----------	----------	1
2	25.0000	1382.50	394.21	----------	----------	1
3	100.0000	6615.06	1851.92	----------	----------	1
4	250.0000	13803.95	3778.94	----------	----------	1
5	500.0000	26032.83	7007.85	----------	----------	1
6	750.0000	42050.93	11540.85	----------	----------	1
7	1000.0000	52409.41	14219.62	----------	----------	1

Average Calibration Factor = 59.020675 (%RSD = 14.93)

Aroclor-1016
Component Type : Named Group
Group Members
PCB1016#1
PCB1016#2
PCB1016#3
PCB1016#4
PCB1016#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	5975.71	1386.44	----------	----------	1
2	25.0000	11945.58	2781.05	----------	----------	1
3	100.0000	51023.63	12294.62	----------	----------	1
4	250.0000	106459.86	24643.93	----------	----------	1
5	500.0000	197093.08	45912.50	----------	----------	1
6	750.0000	317793.20	72995.57	----------	----------	1
7	1000.0000	394617.29	90844.31	----------	----------	1

Average Calibration Factor = 460.571100 (%RSD = 16.07)

PCB1016#5
Component Type : Single Peak Component
Retention Time : 13.722 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	960.00	201.43	----------	----------	1
2	25.0000	1898.00	415.60	----------	----------	1
3	100.0000	7686.50	1786.71	----------	----------	1
4	250.0000	15803.00	3642.68	----------	----------	1
5	500.0000	29629.00	6655.56	----------	----------	1
6	750.0000	47233.00	10720.75	----------	----------	1
7	1000.0000	58852.50	13325.64	----------	----------	1

Average Calibration Factor = 70.440690 (%RSD = 19.15)

PCB1254#1
Component Type : Single Peak Component
Retention Time : 14.504 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	21674.19	6537.15	----------	----------	1

Average Calibration Factor = 86.696778 (%RSD = 0.00)

PCB1254#2
Component Type : Single Peak Component
Retention Time : 15.068 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	29254.51	9472.55	----------	----------	1

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Average Calibration Factor = 117.018028 (%RSD = 0.00)

PCB1254#3
Component Type : Single Peak Component
Retention Time : 15.770 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	21062.35	6471.82	----------	----------	1

Average Calibration Factor = 84.249405 (%RSD = 0.00)

PCB1254#4
Component Type : Single Peak Component
Retention Time : 16.023 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	36555.80	10668.33	----------	----------	1

Average Calibration Factor = 146.223196 (%RSD = 0.00)

Aroclor-1254
Component Type : Named Group
Group Members
PCB1254#1
PCB1254#2
PCB1254#3
PCB1254#4
PCB1254#5
Quantitation will be done using response factor = 1.000000e+06

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

PCB1254#5
Component Type : Single Peak Component
Retention Time : 16.330 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
54	250.0000	7680.47	2352.65	----------	----------	1

Average Calibration Factor = 30.721884 (%RSD = 0.00)

PCB1260#1
Component Type : Single Peak Component
Retention Time : 16.628 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1488.72	476.64	----------	----------	1
2	25.0000	3257.83	991.52	----------	----------	1
3	100.0000	13266.00	3951.06	----------	----------	1
4	250.0000	26191.50	8134.47	----------	----------	1
5	500.0000	47614.00	14475.07	----------	----------	1
6	750.0000	73670.00	22432.24	----------	----------	1
7	1000.0000	91434.00	27677.40	----------	----------	1

Average Calibration Factor = 114.499927 (%RSD = 19.61)

Aroclor-1260
Component Type : Named Group
Group Members
PCB1260#1
PCB1260#2
PCB1260#3
PCB1260#4
PCB1260#5
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	7334.10	2460.78	----------	----------	1
2	25.0000	15199.54	4995.91	----------	----------	1
3	100.0000	67100.21	21569.35	----------	----------	1
4	250.0000	132013.48	42385.43	----------	----------	1
5	500.0000	234742.72	74711.91	----------	----------	1
6	750.0000	367529.70	116608.56	----------	----------	1
7	1000.0000	456786.87	143999.89	----------	----------	1

Average Calibration Factor = 565.251323 (%RSD = 19.01)

PCB1260#2
Component Type : Single Peak Component
Retention Time : 17.209 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1503.02	509.37	----------	----------	1
2	25.0000	3245.00	1067.62	----------	----------	1
3	100.0000	13942.22	4605.50	----------	----------	1
4	250.0000	27617.80	9016.54	----------	----------	1
5	500.0000	49225.78	15715.73	----------	----------	1
6	750.0000	75946.13	24732.47	----------	----------	1
7	1000.0000	94173.67	30510.57	----------	----------	1

Average Calibration Factor = 117.697467 (%RSD = 18.77)

PCB1260#3
Component Type : Single Peak Component
Retention Time : 18.324 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	957.75	319.71	----------	----------	1
2	25.0000	1957.36	654.52	----------	----------	1
3	100.0000	8849.08	2939.76	----------	----------	1
4	250.0000	17647.96	5804.99	----------	----------	1
5	500.0000	31027.71	10107.47	----------	----------	1
6	750.0000	48791.57	15849.50	----------	----------	1
7	1000.0000	60072.12	19330.58	----------	----------	1

Average Calibration Factor = 74.333549 (%RSD = 18.46)

PCB1260#4

Component Type : Single Peak Component
Retention Time : 18.922 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	1074.26	358.67	----------	----------	1
2	25.0000	2155.67	747.43	----------	----------	1
3	100.0000	9636.00	3112.33	----------	----------	1
4	250.0000	19187.00	6473.56	----------	----------	1
5	500.0000	34605.00	11513.88	----------	----------	1
6	750.0000	53442.00	17772.84	----------	----------	1
7	1000.0000	66393.00	22025.13	----------	----------	1

Average Calibration Factor = 81.945651 (%RSD = 18.78)

PCB1260#5

Component Type : Single Peak Component
Retention Time : 19.579 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	10.0000	2310.35	796.38	----------	----------	1
2	25.0000	4583.69	1534.82	----------	----------	1
3	100.0000	21406.91	6960.70	----------	----------	1
4	250.0000	41369.22	12955.86	----------	----------	1
5	500.0000	72270.23	22899.75	----------	----------	1
6	750.0000	115680.00	35821.51	----------	----------	1
7	1000.0000	144714.08	44456.20	----------	----------	1

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Average Calibration Factor = 176.774728 (%RSD = 19.43)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.784 min
Search Window : 4.50 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
3	20.0000	35467.00	12275.79	----------	----------	1
4	50.0000	67268.00	23088.60	----------	----------	1
5	100.0000	121614.50	41747.43	----------	----------	1
2	5.0000	8600.88	3035.05	----------	----------	1
6	150.0000	184999.00	62962.29	----------	----------	1
7	200.0000	235474.00	81011.41	----------	----------	1

Average Calibration Factor = 1410.954448 (%RSD = 18.89)

Calibration Replicate Lists
Component : TCMX
Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65801.59	14321.39	20.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
135822.25	27670.77	50.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255809.23	53641.92	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
415710.00	89127.22	150.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
518418.10	109385.81	200.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7342.36	1619.74	2.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15546.00	3272.82	5.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Component : PCB1016#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
615.74	221.48	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1230.96	430.97	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5306.13	1952.76	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
12507.72	3885.30	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21866.75	7332.60	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38011.75	11877.77	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46711.88	14405.28	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#2
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
947.25	241.95	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1898.12	471.37	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8016.94	2105.77	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
16365.19	4169.32	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30909.00	7897.52	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49487.52	12441.14	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61367.00	15454.69	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2693.37	506.60	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5536.00	1068.90	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23399.00	4597.46	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47980.00	9167.69	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
88655.50	17018.96	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
141010.00	26415.06	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
175276.50	33439.08	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#4

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
759.35	214.98	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1382.50	394.21	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
6615.06	1851.92	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13803.95	3778.94	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26032.83	7007.85	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42050.93	11540.85	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52409.41	14219.62	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : Aroclor-1016
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
5975.71	1386.44	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11945.58	2781.05	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51023.63	12294.62	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106459.86	24643.93	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
197093.08	45912.50	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
317793.20	72995.57	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
394617.29	90844.31	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1016#5
Level : 1

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
960.00	201.43	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1898.00	415.60	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7686.50	1786.71	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15803.00	3642.68	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29629.00	6655.56	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47233.00	10720.75	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58852.50	13325.64	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1254#1
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21674.19	6537.15	250.0000	----------	----------	11/10/04	9:17:00 AM	G:\gc22\CHB\315b005.rst

Component : PCB1254#2
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29254.51	9472.55	250.0000	----------	----------	11/10/04	9:17:00 AM	G:\gc22\CHB\315b005.rst

Component : PCB1254#3
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21062.35	6471.82	250.0000	----------	----------	11/10/04	9:17:00 AM	G:\gc22\CHB\315b005.rst

Component : PCB1254#4
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36555.80	10668.33	250.0000	----------	----------	11/10/04	9:17:00 AM	G:\gc22\CHB\315b005.rst

Component : Aroclor-1254
This component has no calibration levels

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Component : PCB1254#5
Level : 54

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7680.47	2352.65	250.0000	----------	----------	11/10/04	9:17:00 AM	G:\gc22\CHB\315b005.rst

Component : PCB1260#1
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1488.72	476.64	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3257.83	991.52	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13266.00	3951.06	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26191.50	8134.47	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47614.00	14475.07	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73670.00	22432.24	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91434.00	27677.40	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : Aroclor-1260
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
7334.10	2460.78	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15199.54	4995.91	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67100.21	21569.35	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132013.48	42385.43	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234742.72	74711.91	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
367529.70	116608.56	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
456786.87	143999.89	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#2

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1503.02	509.37	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3245.00	1067.62	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13942.22	4605.50	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27617.80	9016.54	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49225.78	15715.73	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
75946.13	24732.47	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94173.67	30510.57	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#3

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
957.75	319.71	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1957.36	654.52	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8849.08	2939.76	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
17647.96	5804.99	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31027.71	10107.47	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48791.57	15849.50	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60072.12	19330.58	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#4
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1074.26	358.67	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2155.67	747.43	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
9636.00	3112.33	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
19187.00	6473.56	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34605.00	11513.88	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53442.00	17772.84	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66393.00	22025.13	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : PCB1260#5
Level : 1

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2310.35	796.38	10.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b009p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
4583.69	1534.82	25.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21406.91	6960.70	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41369.22	12955.86	250.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72270.23	22899.75	500.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115680.00	35821.51	750.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
144714.08	44456.20	1000.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

Component : Decachlorobiphenyl

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35467.00	12275.79	20.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b011p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
67268.00	23088.60	50.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b012p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
121614.50	41747.43	100.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b013p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
8600.88	3035.05	5.0000	----------	----------	11/9/04	10:02:59 AM	G:\gc22\CHB\314b010p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184999.00	62962.29	150.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b014p.rst

Level : 7

11/10/04 9:17:19 AM Method: G:\gc22\files\5460b315.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
235474.00	81011.41	200.0000	----------	----------	11/9/04	10:03:00 AM	G:\gc22\CHB\314b015p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Reviewed By: /mcm 11/10/04

Instrument: GC22 Gas Chromatograph #22 ECD Type: (normal) Date: 09-NOV-2004 20:37 Inj Vol (uL): 1
Calnum: 254453315001 Name:

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	315_005	254453315005	ar1254	09-NOV-2004 20:37	04WS2063

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	72.688	AVRG	R		0.013757		pg	72.688	0	—	.99	20	
Aroclor-1254 Peak # 2	A	126.35	AVRG	R		0.007915		pg	126.35	0	—	.99	20	
Aroclor-1254 Peak # 3	A	78.599	AVRG	R		0.012723		pg	78.599	0	—	.99	20	
Aroclor-1254 Peak # 4	A	129.46	AVRG	R		0.007725		pg	129.46	0	—	.99	20	
Aroclor-1254 Peak # 5	A	89.314	AVRG	R		0.011196		pg	89.314	0	—	.99	20	
Aroclor-1254 Peak # 1	B	86.697	AVRG	R		0.011534		pg	86.697	0	—	.99	20	
Aroclor-1254 Peak # 2	B	117.02	AVRG	R		0.008546		pg	117.02	0	—	.99	20	
Aroclor-1254 Peak # 3	B	84.249	AVRG	R		0.011870		pg	84.249	0	—	.99	20	
Aroclor-1254 Peak # 4	B	146.22	AVRG	R		0.006839		pg	146.22	0	—	.99	20	
Aroclor-1254 Peak # 5	B	30.722	AVRG	R		0.032550		pg	30.722	0	—	.99	20	

FA 11/10/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254453315005
Calnum : 254453315001
Standards: 04WS2063

Run Name : ar1254
Filename : 315_005
Caldate : 09-NOV-2004

IDF : 1.0
Injected : 09-NOV-2004 20:37
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	250.0000	pg	0	15	
Aroclor-1254	B			250.0000	250.0000	pg	0	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2063,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 11/10/04 9:13:25 AM
Data Acquisition Time : 11/9/04 8:37:47 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\315a005p.rst
Sequence File : G:\gc22\files\315.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.101	140009.00	45.8347	1.000	1	45.83	9.17
Aroclor-1016	12.863	11931.43	39.5776	1.000	1	39.58	7.92
Aroclor-1254	15.518	124101.13	0.1241	1.000	1	0.12	0.02
Aroclor-1260	16.670	39931.80	71.6747	1.000	1	71.67	14.33
Decachlorobiphenyl	21.863	63649.50	49.7114	1.000	1	49.71	9.94
		379622.86	206.9225			206.92	41.38

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.156	504.00	4.7698	1.000	1	4.77	0.95
PCB1016#2	11.954	167.00	2.8032	1.000	1	2.80	0.56
PCB1016#3	12.427	521.00	14.4227	1.000	1	14.42	2.88
PCB1016#4	12.863	7896.00	126.5698	1.000	1	126.57	25.31
PCB1016#5	13.085	2843.43	75.3813	1.000	1	75.38	15.08
		11931.43	223.9468			223.95	44.79

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.847	18171.91	274.4672	1.000	1	274.47	54.89
PCB1254#2	14.500	31586.75	276.0682	1.000	1	276.07	55.21
PCB1254#3	15.212	19649.73	274.8851	1.000	1	274.89	54.98
PCB1254#4	15.518	32364.30	274.8361	1.000	1	274.84	54.97
PCB1254#5	16.214	22328.43	274.1450	1.000	1	274.14	54.83
		124101.13	1374.4016			1374.40	274.88

FA 11/10/04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.969	11161.94	111.7800	1.000	1	111.78	22.36
PCB1260#2	16.670	21185.51	141.4441	1.000	1	141.44	28.29
PCB1260#3	17.581	3577.10	51.4646	1.000	1	51.46	10.29
PCB1260#4	18.253	971.00	12.5768	1.000	1	12.58	2.52
PCB1260#5	19.014	3036.24	18.8848	1.000	1	18.88	3.78
		39931.80	336.1502			336.15	67.23

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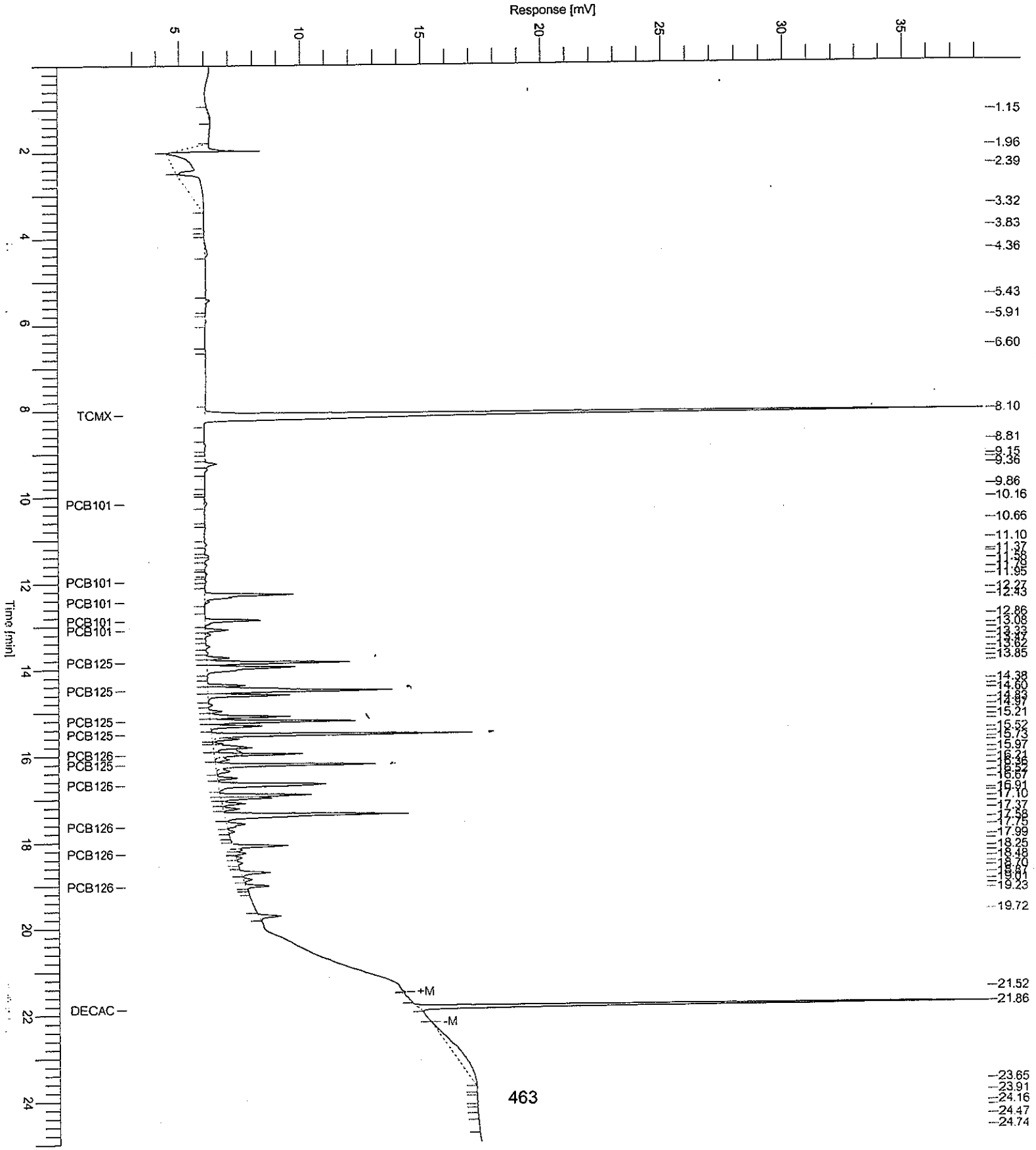
Report stored in ASCII file: G:\gc22\CHA\315a005p.TX0

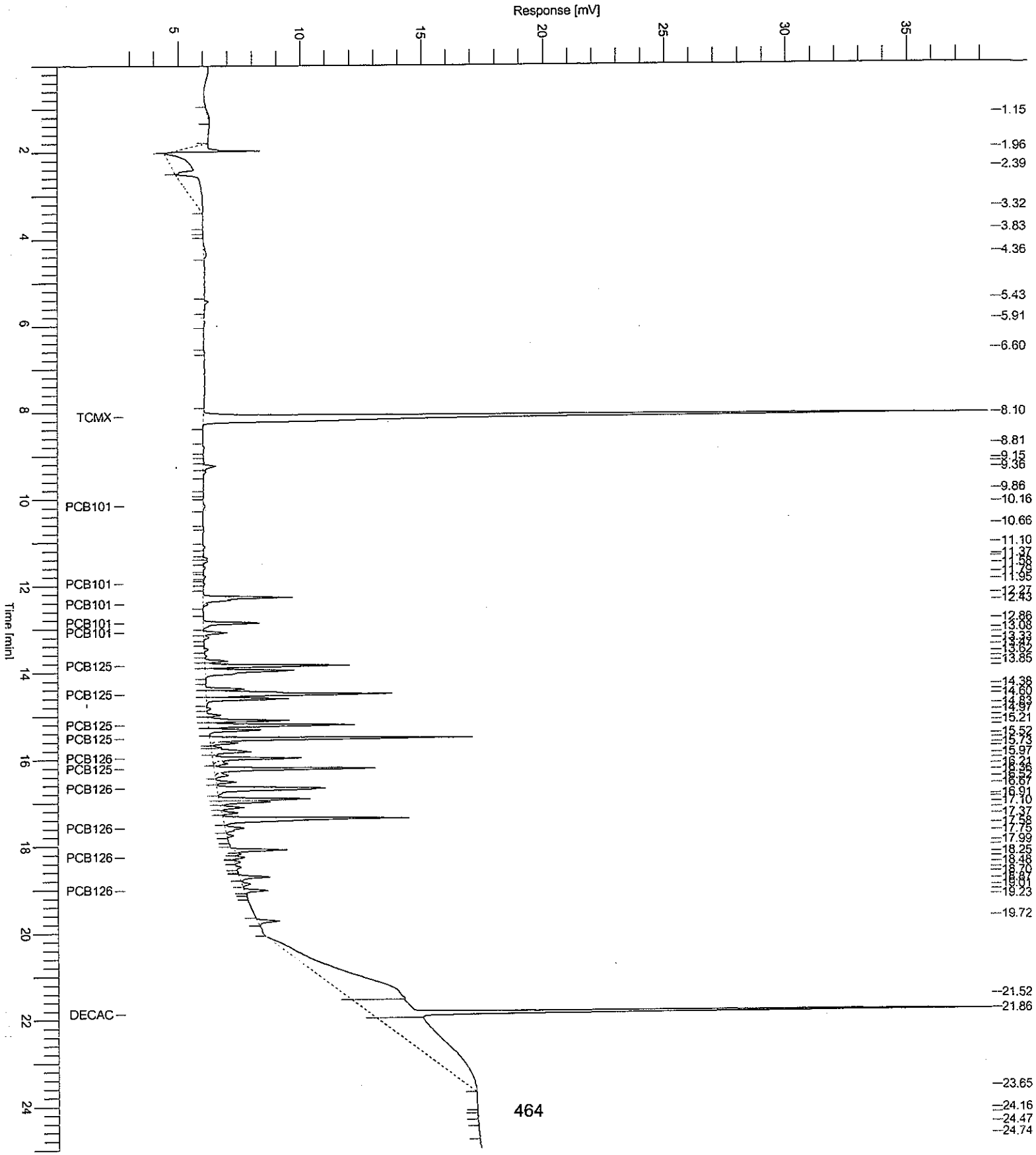
GC22 Rtx-CLPesticides

ample Name : ccv,04ws2063,ar1254 Sample #: 250ug/l
ileName : G:\gc22\CHa\315a005.raw
ate : 11/10/04 9:13:32 AM
lethod :
Time of Injection: 11/9/04 8:37:47 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.64 mV High Point : 38.47 mV
lot Offset: 2.64 mV Plot Scale: 35.8 mV



GC22 Rtx-CLPesticides

ample Name : ccv,04ws2063,ar1254 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc22\CHa\315a005.raw
ate : 11/10/04 9:11:23 AM
lethod : gc22ins Time of Injection: 11/9/04 8:37:47 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.73 mV High Point : 38.47 mV
cale Factor: 1.0 Plot Offset: 2.73 mV Plot Scale: 35.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2063,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 11/10/04 9:11:11 AM
Data Acquisition Time : 11/9/04 8:37:47 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\315b005.rst
Sequence File : G:\gc22\files\315.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.807	141203.00	47.7302	1.000	1	47.73	9.55
Aroclor-1016	13.718	5949.27	12.9172	1.000	1	12.92	2.58
Aroclor-1254	16.023	116227.32	0.1162	1.000	1	0.12	0.02
Aroclor-1260	16.660	54088.69	95.6896	1.000	1	95.69	19.14
Decachlorobiphenyl	22.783	74508.50	52.8072	1.000	1	52.81	10.56
		391976.78	209.2604			209.26	41.85

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.796	547.00	10.7849	1.000	1	10.78	2.16
PCB1016#2	11.299	455.00	6.3013	1.000	1	6.30	1.26
PCB1016#3	11.958	1086.50	5.2189	1.000	1	5.22	1.04
PCB1016#4	12.437	220.00	3.7275	1.000	1	3.73	0.75
PCB1016#5	13.718	3640.77	51.6856	1.000	1	51.69	10.34
		5949.27	77.7183			77.72	15.54

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.504	21674.19	281.5070	1.000	1	281.51	56.30
PCB1254#2	15.068	29254.51	277.9460	1.000	1	277.95	55.59
PCB1254#3	15.770	21062.35	287.2731	1.000	1	287.27	57.45
PCB1254#4	16.023	36555.80	285.1502	1.000	1	285.15	57.03
PCB1254#5	16.330	7680.47	293.5463	1.000	1	293.55	58.71
		116227.32	1425.4227			1425.42	285.08

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.660	34388.69	300.3381	1.000	1	300.34	60.07
PCB1260#2	17.206	13117.22	111.4487	1.000	1	111.45	22.29
PCB1260#3	18.321	1261.56	16.9716	1.000	1	16.97	3.39
PCB1260#4	18.920	1667.22	20.3454	1.000	1	20.35	4.07
PCB1260#5	19.580	3654.00	20.6704	1.000	1	20.67	4.13
		54088.69	469.7741			469.77	93.95

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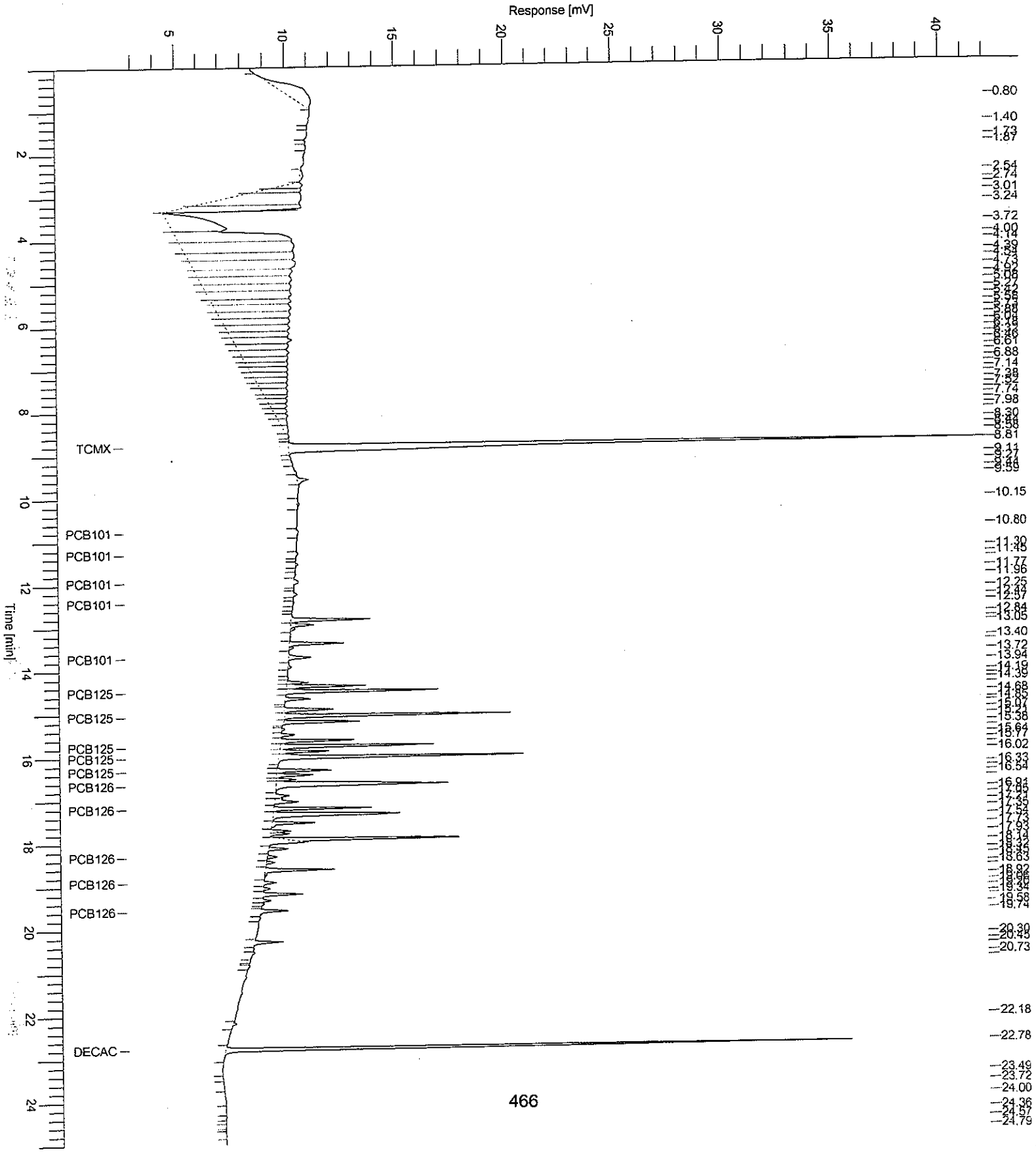
Report stored in ASCII file: G:\gc22\CHB\315b005.TX0

GC22 Rtx-CLPesticides II

ample Name : ccv,04ws2063,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHb\315b005
ate : 11/10/04 9:11:15 AM
ethod : gc22ins Time of Injection: 11/9/04 8:37:47 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.58 mV High Point : 42.08 mV
cale Factor: 1.0 Plot Offset: 2.58 mV Plot Scale: 39.5 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254473018030
Calnum : 254452018001
Standards: 04WS2130

Run Name : pcb250_50
Filename : 328_030
Caldate : 08-NOV-2004

IDF : 1.0
Injected : 24-NOV-2004 02:01
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	230.5598	pg	-8	15	
Aroclor-1260	A			250.0000	250.2296	pg	0	15	
TCMX	A	3054.7	2820.9	50.00000	46.17338	pg	-8	15	
Decachlorobiphenyl	A	1280.4	1249.1	50.00000	48.77891	pg	-2	15	
Aroclor-1016	B			250.0000	219.3924	pg	-12	15	
Aroclor-1260	B			250.0000	230.2103	pg	-8	15	
TCMX	B	2958.4	2677.9	50.00000	45.26028	pg	-9	15	
Decachlorobiphenyl	B	1411.0	1320.8	50.00000	46.80661	pg	-6	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 30

Date : 11/24/04 11:08:52 AM
Data Acquisition Time : 11/24/04 2:01:12 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a030p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.051	141043.67	46.1734	1.000	1	46.17	9.23
Aroclor-1016	10.099	69248.36	229.7028	1.000	1	229.70	45.94
Aroclor-1254	14.445	36509.76	0.0365	1.000	1	0.04	0.01
Aroclor-1260	18.952	139122.35	249.7146	1.000	1	249.71	49.94
Decachlorobiphenyl	21.816	62455.54	48.7789	1.000	1	48.78	9.76
		448379.68	574.4061			574.41	114.88

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.099	24164.31	228.6859	1.000	1	228.69	45.74
PCB1016#2	11.898	13091.09	219.7425	1.000	1	219.74	43.95
PCB1016#3	12.372	8658.74	239.6977	1.000	1	239.70	47.94
PCB1016#4	12.803	14686.74	235.4227	1.000	1	235.42	47.08
PCB1016#5	13.029	8647.48	229.2505	1.000	1	229.25	45.85
		69248.36	1152.7994			1152.80	230.56

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.785	9220.20	126.8469	1.000	1	126.85	25.37
PCB1254#2	14.445	11772.21	93.1737	1.000	1	93.17	18.63
PCB1254#3	15.135	6888.75	87.6443	1.000	1	87.64	17.53
PCB1254#4	15.455	5495.97	42.4540	1.000	1	42.45	8.49
PCB1254#5	16.161	3132.62	35.0744	1.000	1	35.07	7.01
		36509.76	385.1932			385.19	77.04

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.907	25491.14	255.2782	1.000	1	255.28	51.06
PCB1260#2	16.602	35367.91	236.1322	1.000	1	236.13	47.23
PCB1260#3	17.573	17862.51	256.9918	1.000	1	256.99	51.40
PCB1260#4	18.191	18873.12	244.4529	1.000	1	244.45	48.89
PCB1260#5	18.952	41527.66	258.2930	1.000	1	258.29	51.66
		139122.35	1251.1481			1251.15	250.23

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Report stored in ASCII file: G:\gc22\CHA\328a030p.TX0

GC22 Rtx-CLPesticides

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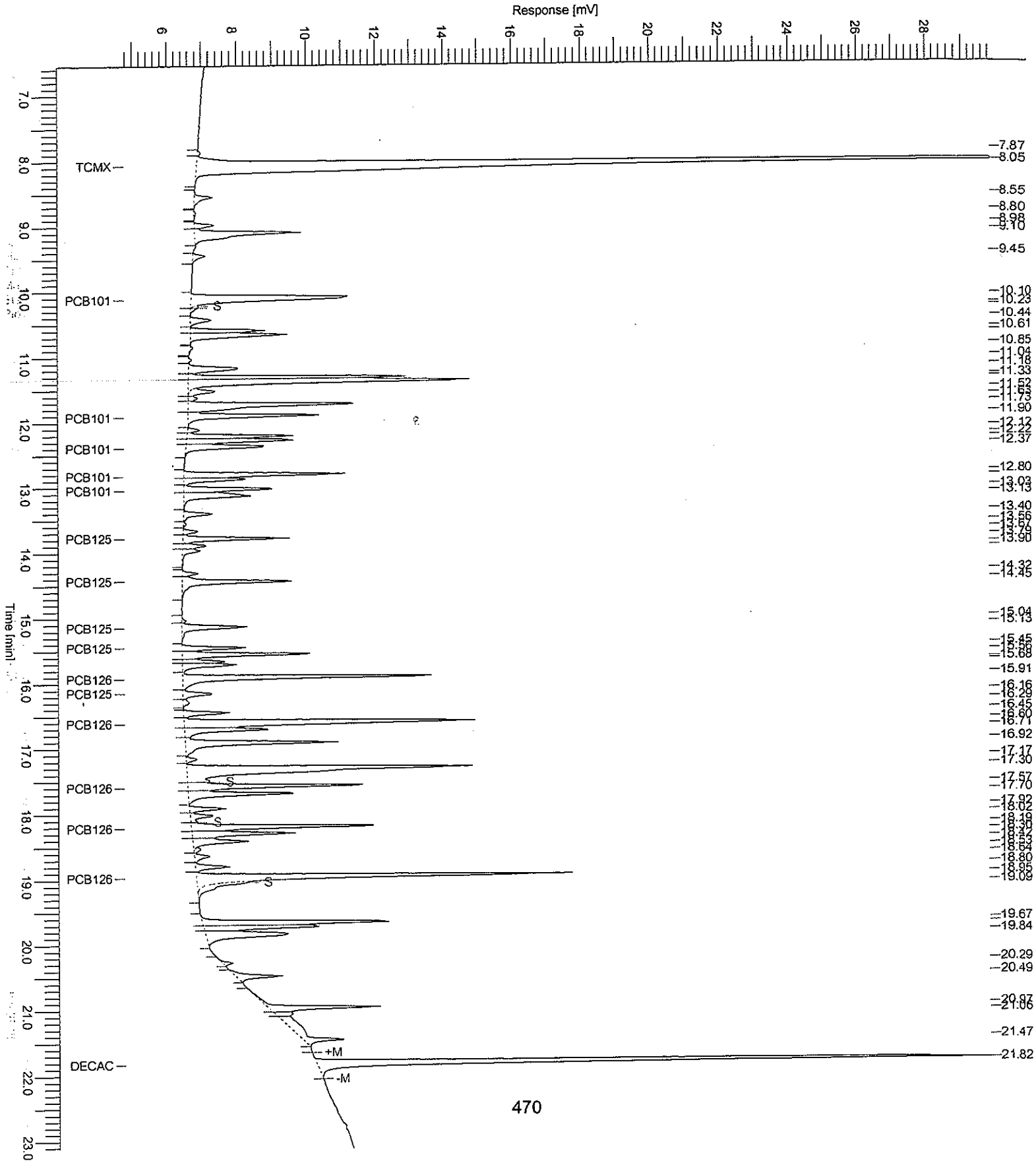
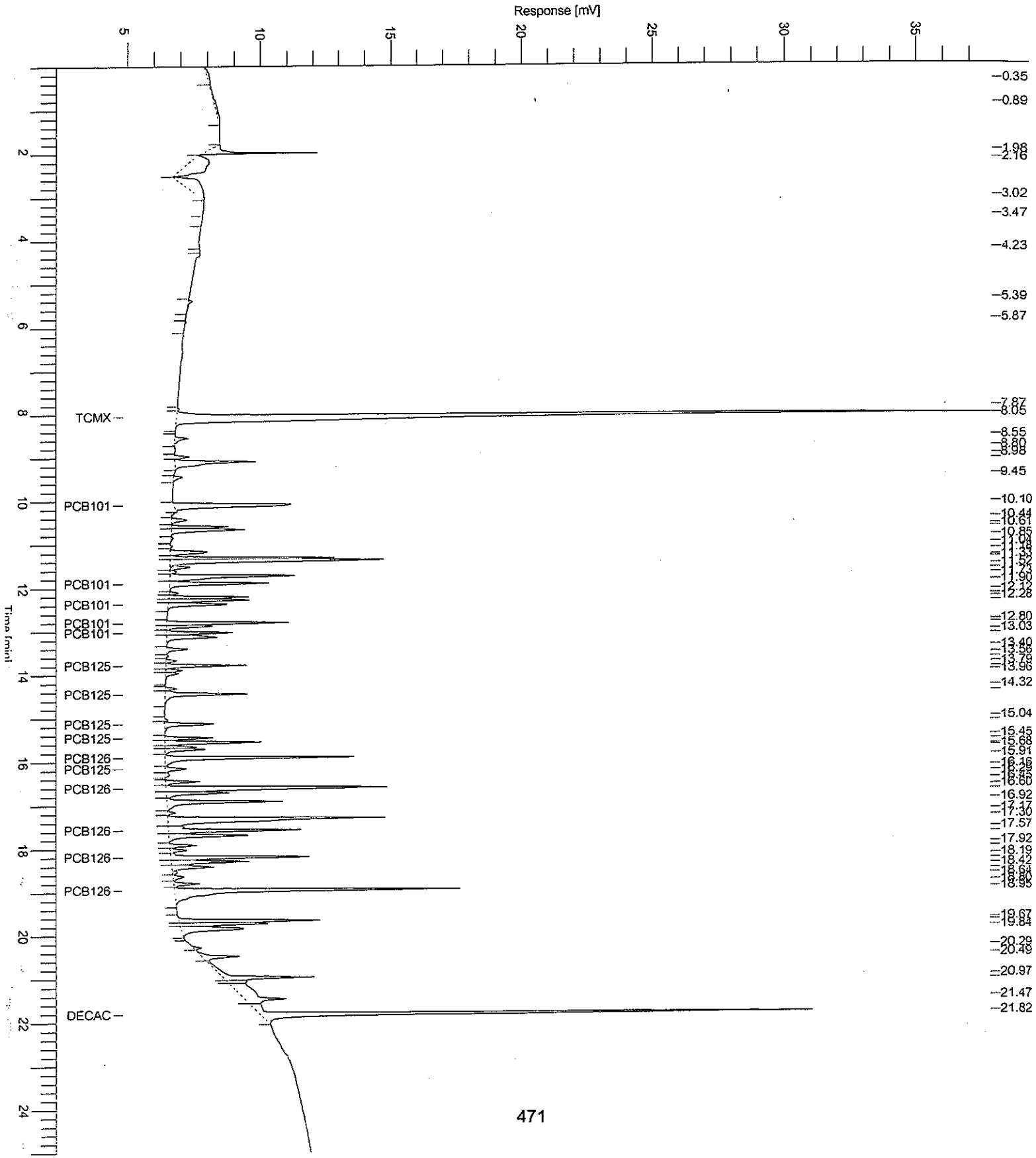
ileName : G:\gc22\cha\328a030.raw
ate : 11/24/04 11:08:57 AM
lethod :
Time of Injection: 11/24/04 2:01:12 AM
tart Time : 6.55 min End Time : 23.13 min Low Point : 4.76 mV High Point : 29.87 mV
lot Offset: 4.76 mV Plot Scale: 25.1 mV



GC22 Rtx-CLPesticides

ample Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc22\cha\328a030.raw
ate : 11/24/04 11:05:21 AM
lethod : gc22ins Time of Injection: 11/24/04 2:01:12 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 4.85 mV High Point : 37.90 mV
cale Factor: 1.0 Plot Offset: 4.85 mV Plot Scale: 33.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 30

Date : 11/24/04 11:09:55 AM
Data Acquisition Time : 11/24/04 2:01:12 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b030p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.801	133896.00	45.2603	1.000	1	45.26	9.05
Aroclor-1016	11.960	100038.32	217.2049	1.000	1	217.20	43.44
Aroclor-1254	16.302	40872.87	0.0409	1.000	1	0.04	0.01
Aroclor-1260	19.565	130309.08	230.5330	1.000	1	230.53	46.11
Decachlorobiphenyl	22.772	66042.00	46.8066	1.000	1	46.81	9.36
		471158.27	539.8457			539.85	107.97

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.789	11792.45	232.5062	1.000	1	232.51	46.50
PCB1016#2	11.285	15914.37	220.3995	1.000	1	220.40	44.08
PCB1016#3	11.960	44539.67	213.9438	1.000	1	213.94	42.79
PCB1016#4	12.431	12949.35	219.4036	1.000	1	219.40	43.88
PCB1016#5	13.710	14842.48	210.7089	1.000	1	210.71	42.14
		100038.32	1096.9620			1096.96	219.39

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.495	10131.87	116.8656	1.000	1	116.87	23.37
PCB1254#2	15.052	10519.85	89.8994	1.000	1	89.90	17.98
PCB1254#3	15.755	2279.50	27.0566	1.000	1	27.06	5.41
PCB1254#4	16.010	6311.31	43.1621	1.000	1	43.16	8.63
PCB1254#5	16.302	11630.34	378.5685	1.000	1	378.57	75.71
		40872.87	655.5523			655.55	131.11

Group Report For : Aroclor-1260

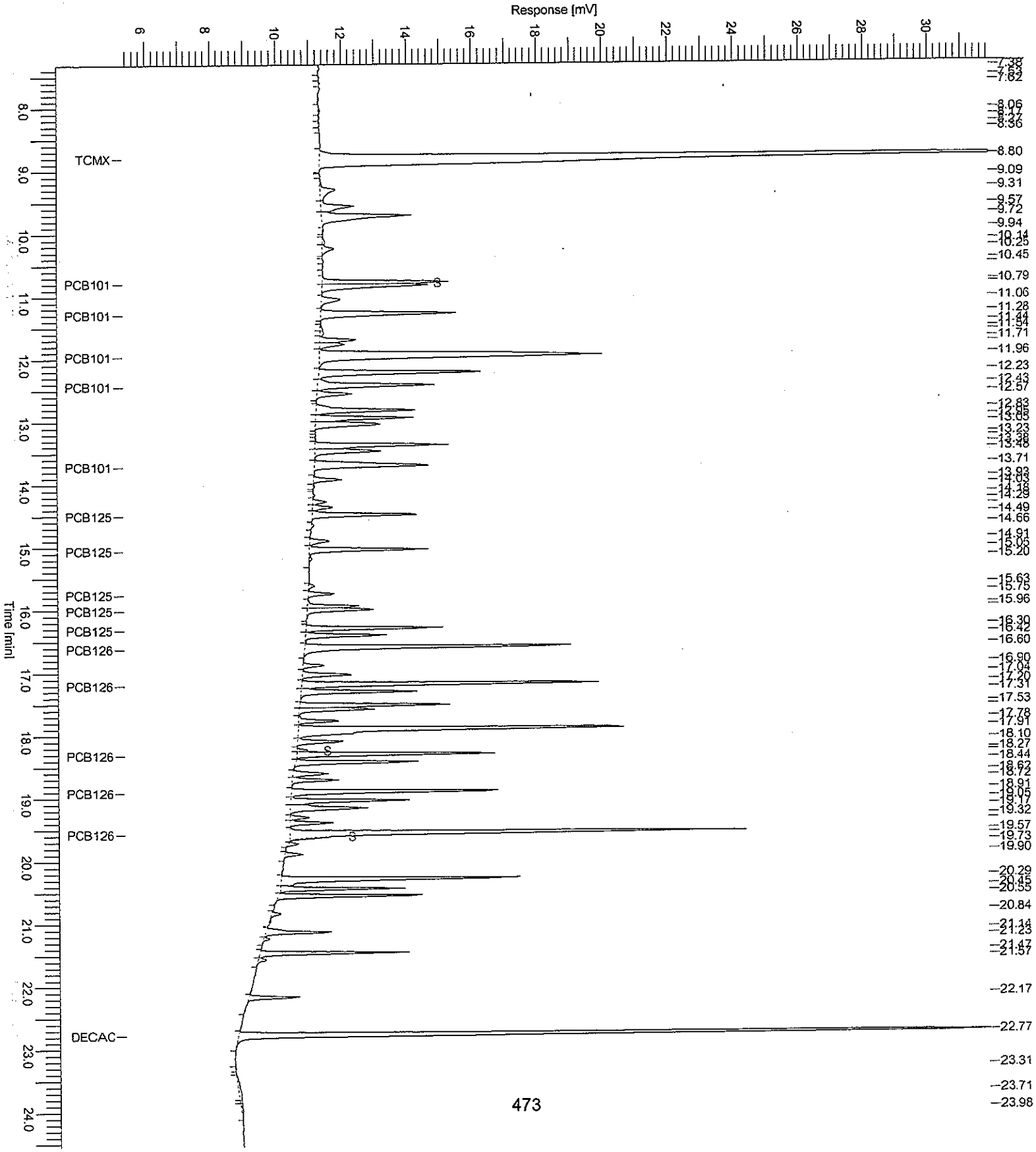
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.605	25527.00	222.9434	1.000	1	222.94	44.59
PCB1260#2	17.196	26849.86	228.1261	1.000	1	228.13	45.63
PCB1260#3	18.313	17370.27	233.6801	1.000	1	233.68	46.74
PCB1260#4	18.905	18897.45	230.6096	1.000	1	230.61	46.12
PCB1260#5	19.565	41664.50	235.6926	1.000	1	235.69	47.14
		130309.08	1151.0517			1151.05	230.21

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b030p.TX0

GC22 Rtx-CLPesticides II

ample Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc22\chb\328b030.raw
ate : 11/24/04 11:09:59 AM
lethod :
Time of Injection: 11/24/04 2:01:12 AM
tart Time : 7.32 min End Time : 24.55 min Low Point : 5.32 mV High Point : 31.87 mV
lot Offset: 5.32 mV Plot Scale: 26.6 mV



GC22 Rtx-CLPesticides II

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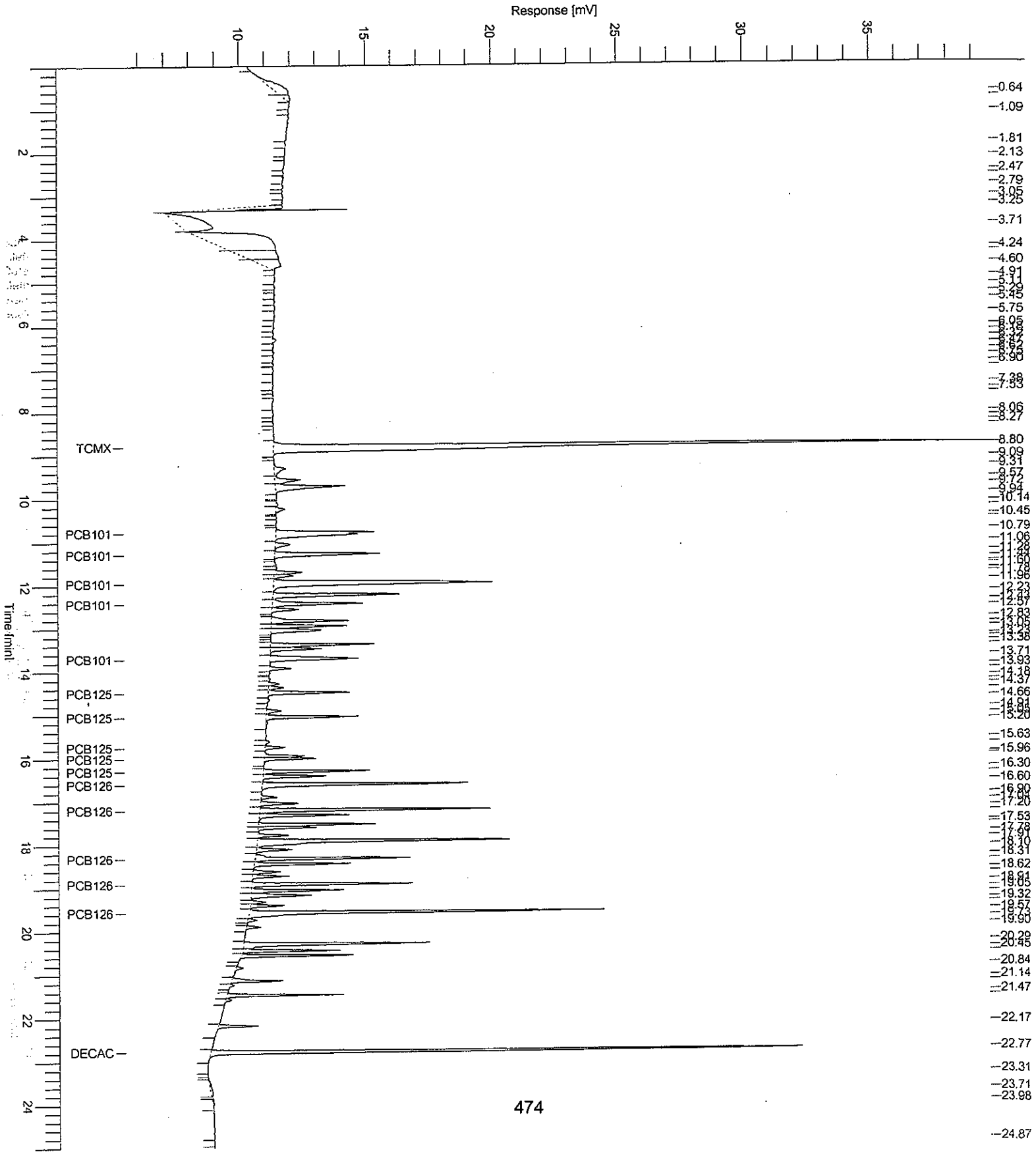
ate : 11/24/04 11:05:42 AM
ethod : gc22ins Time of Injection: 11/24/04 2:01:12 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 5.40 mV High Point : 39.74 mV
cale Factor: 1.0 Plot Offset: 5.40 mV Plot Scale: 34.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254473018032
Calnum : 254453315001
Standards: 04WS2184

Run Name : ar1254
Filename : 328_032
Caldate : 09-NOV-2004

IDF : 1.0
Injected : 24-NOV-2004 02:56
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	271.1620	pg	8	15	
Aroclor-1254	B			250.0000	254.6105	pg	2	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 32

Date : 11/24/04 11:05:29 AM
Data Acquisition Time : 11/24/04 2:56:24 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a032.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.050	153782.50	50.3437	1.000	1	50.34	10.07
Aroclor-1016	12.800	13407.09	44.4725	1.000	1	44.47	8.89
Aroclor-1254	15.454	134511.42	0.1345	1.000	1	0.13	0.03
Aroclor-1260	16.608	40201.81	72.1593	1.000	1	72.16	14.43
Decachlorobiphenyl	21.814	108816.62	84.9877	1.000	1	84.99	17.00
		450719.43	252.0977			252.10	50.42

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.095	519.00	4.9117	1.000	1	4.91	0.98
PCB1016#2	11.890	271.45	4.5564	1.000	1	4.56	0.91
PCB1016#3	12.361.	623.00	17.2464	1.000	1	17.25	3.45
PCB1016#4	12.800	8767.33	140.5369	1.000	1	140.54	28.11
PCB1016#5	13.021	3226.31	85.5316	1.000	1	85.53	17.11
		13407.09	252.7830			252.78	50.56

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.784	20781.15	285.8965	1.000	1	285.90	57.18
PCB1254#2	14.436	35002.62	277.0357	1.000	1	277.04	55.41
PCB1254#3	15.148	21718.90	276.3258	1.000	1	276.33	55.27
PCB1254#4	15.454	35065.74	270.8674	1.000	1	270.87	54.17
PCB1254#5	16.152	21943.00	245.6845	1.000	1	245.68	49.14
		134511.42	1355.8099			1355.81	271.16

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.905	10243.00	102.5774	1.000	1	102.58	20.52
PCB1260#2	16.608	23676.00	158.0717	1.000	1	158.07	31.61
PCB1260#3	17.599	0.00	0.0000	1.000	1	0.00	0.00
PCB1260#4	18.186	2351.83	30.4619	1.000	1	30.46	6.09
PCB1260#5	18.952	3930.98	24.4498	1.000	1	24.45	4.89
		40201.81	315.5609			315.56	63.11

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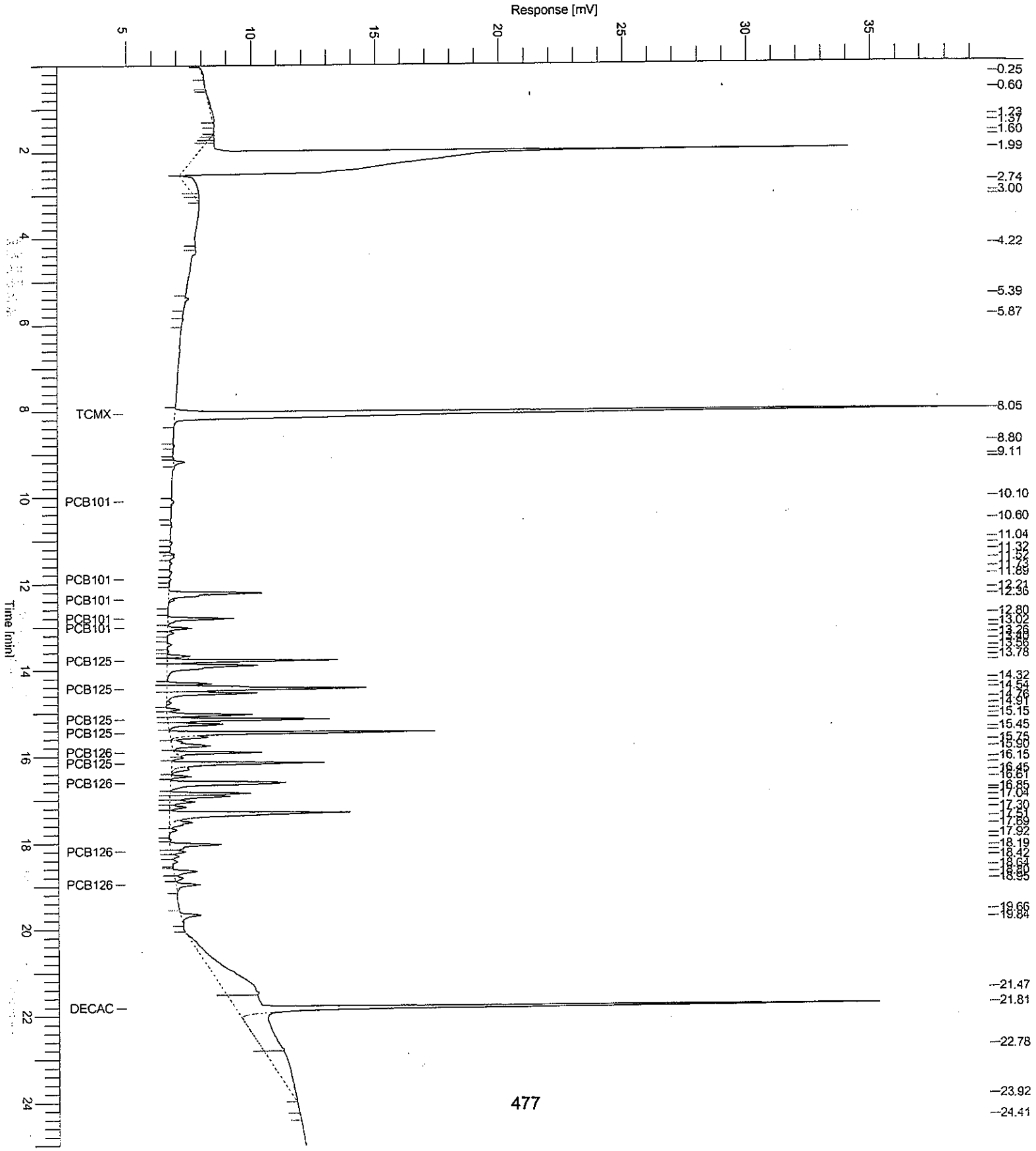
Report stored in ASCII file: G:\gc22\CHA\328a032.TX0

GC22 Rtx-CLPesticides

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc22\cha\328a032.raw
ate : 11/24/04 11:05:31 AM
lethod : gc22ins Time of Injection: 11/24/04 2:56:24 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 4.84 mV High Point : 39.73 mV
cale Factor: 1.0 Plot Offset: 4.84 mV Plot Scale: 34.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 32

Date : 11/24/04 11:05:50 AM
Data Acquisition Time : 11/24/04 2:56:24 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b032.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.799	143266.00	48.4276	1.000	1	48.43	9.69
Aroclor-1016	13.702	5611.52	12.1838	1.000	1	12.18	2.44
Aroclor-1254	16.011	119078.92	0.1191	1.000	1	0.12	0.02
Aroclor-1260	16.644	56264.77	99.5394	1.000	1	99.54	19.91
Decachlorobiphenyl	22.771	79858.00	56.5986	1.000	1	56.60	11.32
		404079.20	216.8684			216.87	43.37

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.784	355.50	7.0092	1.000	1	7.01	1.40
PCB1016#2	11.283	434.50	6.0174	1.000	1	6.02	1.20
PCB1016#3	11.944	1117.00	5.3654	1.000	1	5.37	1.07
PCB1016#4	12.422	279.09	4.7287	1.000	1	4.73	0.95
PCB1016#5	13.702	3425.43	48.6285	1.000	1	48.63	9.73
		5611.52	71.7493			71.75	14.35

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.488	22207.05	256.1462	1.000	1	256.15	51.23
PCB1254#2	15.051	30238.10	258.4055	1.000	1	258.41	51.68
PCB1254#3	15.753	21139.52	250.9160	1.000	1	250.92	50.18
PCB1254#4	16.011	37853.39	258.8741	1.000	1	258.87	51.77
PCB1254#5	16.313	7640.86	248.7106	1.000	1	248.71	49.74
		119078.92	1273.0523			1273.05	254.61

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.644	35790.30	312.5792	1.000	1	312.58	62.52
PCB1260#2	17.195	13555.29	115.1706	1.000	1	115.17	23.03
PCB1260#3	18.305	1226.00	16.4932	1.000	1	16.49	3.30
PCB1260#4	18.904	1763.00	21.5143	1.000	1	21.51	4.30
PCB1260#5	19.565	3930.18	22.2327	1.000	1	22.23	4.45
		56264.77	487.9900			487.99	97.60

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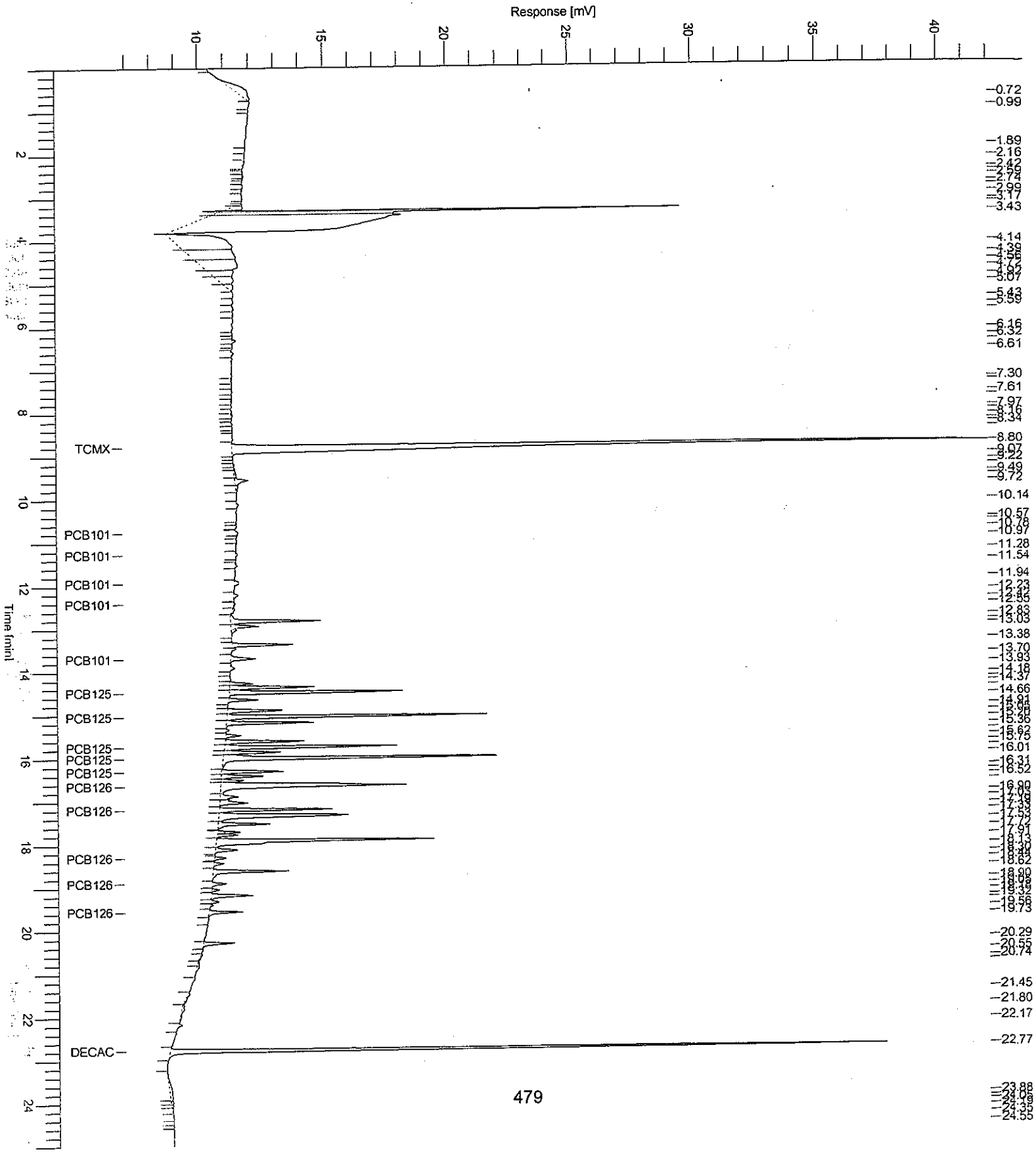
Report stored in ASCII file: G:\gc22\CHB\328b032.TX0

GC22 Rtx-CLPesticides II

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\chb\328b032
ate : 11/24/04 11:05:53 AM
ethod : gc22ins Time of Injection: 11/24/04 2:56:24 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 6.89 mV High Point : 42.08 mV
cale Factor: 1.0 Plot Offset: 6.89 mV Plot Scale: 35.2 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254473018041
Calnum : 254452018001
Standards: 04WS2064

Run Name : pcb500_100
Filename : 328_041
Caldate : 08-NOV-2004

IDF : 1.0
Injected : 24-NOV-2004 16:51
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	459.0457	pg	-8	15	
Aroclor-1260	A			500.0000	561.1069	pg	12	15	
TCMX	A	3054.7	2888.7	100.0000	94.56768	pg	-5	15	
Decachlorobiphenyl	A	1280.4	1611.7	100.0000	125.8800	pg	26	15	c+
Aroclor-1016	B			500.0000	499.3802	pg	0	15	
Aroclor-1260	B			500.0000	515.0767	pg	3	15	
TCMX	B	2958.4	3099.0	100.0000	104.7528	pg	5	15	
Decachlorobiphenyl	B	1411.0	1478.1	100.0000	104.7596	pg	5	15	

+=high bias c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2064,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 41

Date : 11/29/04 11:06:22 AM
Data Acquisition Time : 11/24/04 4:51:06 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a041p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.048	288871.48	94.5677	1.000	1	94.57	18.91
Aroclor-1016	10.098	129614.24	429.9416	1.000	1	429.94	85.99
Aroclor-1254	14.439	78083.76	0.0781	1.000	1	0.08	0.02
Aroclor-1260	18.950	297317.93	533.6642	1.000	1	533.66	106.73
Decachlorobiphenyl	21.813	137878.17	107.6853	1.000	1	107.69	21.54
		931765.57	1165.9369			1165.94	233.19

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.098	50413.00	477.0981	1.000	1	477.10	95.42
PCB1016#2	11.896	29308.28	491.9586	1.000	1	491.96	98.39
PCB1016#3	12.370	17949.95	496.9044	1.000	1	496.90	99.38
PCB1016#4	12.857	13215.81	211.8443	1.000	1	211.84	42.37
PCB1016#5	13.023	18727.19	496.4702	1.000	1	496.47	99.29
		129614.24	2174.2755			2174.28	434.86

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.784	19266.86	265.0637	1.000	1	265.06	53.01
PCB1254#2	14.439	24649.01	195.0898	1.000	1	195.09	39.02
PCB1254#3	15.134	14561.95	185.2692	1.000	1	185.27	37.05
PCB1254#4	15.454	12277.88	94.8412	1.000	1	94.84	18.97
PCB1254#5	16.156	7328.06	82.0485	1.000	1	82.05	16.41
		78083.76	822.3124			822.31	164.46

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.905	53113.58	531.9000	1.000	1	531.90	106.38
PCB1260#2	16.601	75268.11	502.5240	1.000	1	502.52	100.50
PCB1260#3	17.571	37513.31	539.7120	1.000	1	539.71	107.94
PCB1260#4	18.188	42088.48	545.1482	1.000	1	545.15	109.03
PCB1260#5	18.950	89334.45	555.6409	1.000	1	555.64	111.13
		297317.93	2674.9251			2674.93	534.99

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11/29/04

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Report stored in ASCII file: G:\gc22\CHA\328a041p.TX0

GC22 Rtx-CLPesticides

ımple Name : ccv,04ws2064,pcb500_100 Sample #: 500ug/l Page 1 of 1
eName : G:\gc22\CHA\328a041.raw
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Time of Injection: 11/24/04 4:51:06 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 1.91 mV High Point : 63.95 mV
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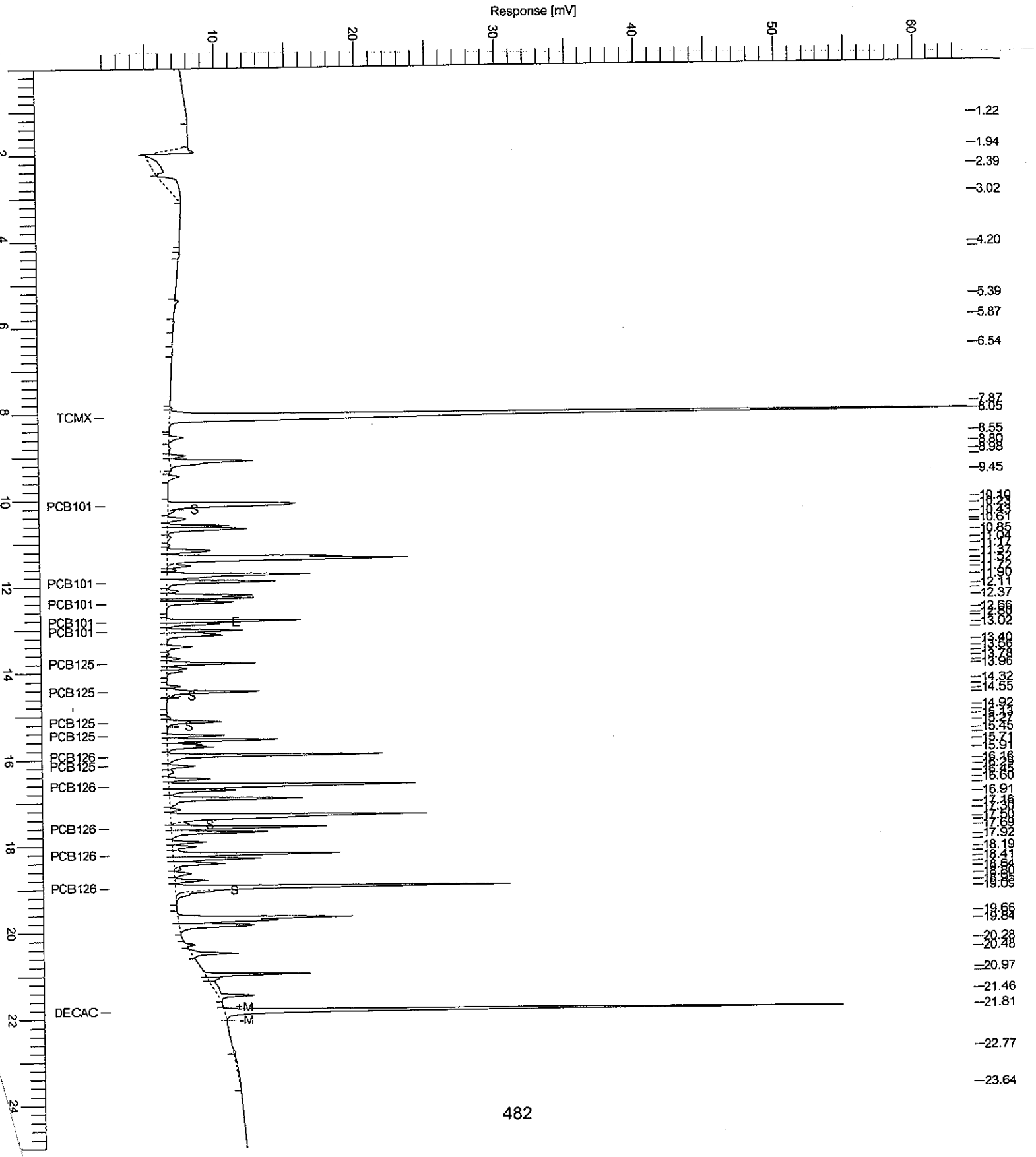

GC22 Rtx-CLPesticides

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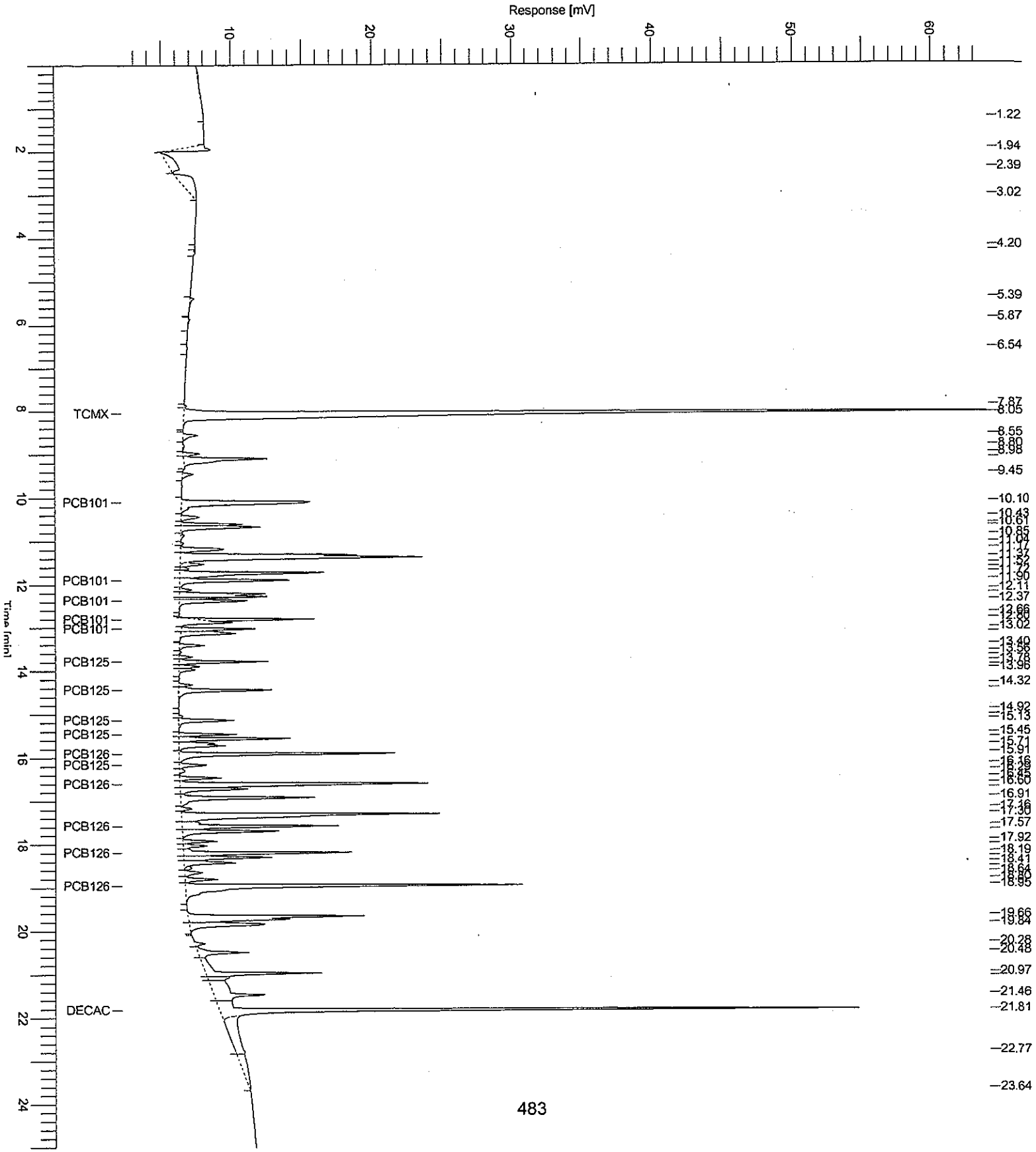
cale Factor: 1.0 Plot Offset: 2.07 mV Plot Scale: 61.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2064,pcb500_100
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 41

Date : 11/29/04 11:07:57 AM
Data Acquisition Time : 11/24/04 4:51:06 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b041p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.793	309896.00	104.7528	1.000	1	104.75	20.95
Aroclor-1016	11.958	228911.39	497.0164	1.000	1	497.02	99.40
Aroclor-1254	16.302	93204.82	0.0932	1.000	1	0.09	0.02
Aroclor-1260	19.564	292294.64	517.1056	1.000	1	517.11	103.42
Decachlorobiphenyl	22.770	147811.00	104.7596	1.000	1	104.76	20.95
		1072117.84	1223.7276			1223.73	244.75

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.788	25623.00	505.1967	1.000	1	505.20	101.04
PCB1016#2	11.282	36610.00	507.0152	1.000	1	507.02	101.40
PCB1016#3	11.958	102518.49	492.4418	1.000	1	492.44	98.49
PCB1016#4	12.428	29637.90	502.1613	1.000	1	502.16	100.43
PCB1016#5	13.703	34522.00	490.0861	1.000	1	490.09	98.02
		228911.39	2496.9010			2496.90	499.38

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.489	23500.56	271.0661	1.000	1	271.07	54.21
PCB1254#2	15.051	23526.64	201.0514	1.000	1	201.05	40.21
PCB1254#3	15.753	5493.67	65.2072	1.000	1	65.21	13.04
PCB1254#4	16.009	14555.72	99.5446	1.000	1	99.54	19.91
PCB1254#5	16.302	26128.22	850.4759	1.000	1	850.48	170.10
		93204.82	1487.3452			1487.35	297.47

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.604	56045.00	489.4763	1.000	1	489.48	97.90
PCB1260#2	17.195	59009.62	501.3670	1.000	1	501.37	100.27
PCB1260#3	18.312	39293.26	528.6073	1.000	1	528.61	105.72
PCB1260#4	18.904	42097.11	513.7199	1.000	1	513.72	102.74
PCB1260#5	19.564	95849.65	542.2135	1.000	1	542.21	108.44
		292294.64	2575.3840			2575.38	515.08

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Report stored in ASCII file: G:\gc22\CHB\328b041p.TX0

GC22 Rtx-CLPesticides II

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ethod : Time of Injection: 11/24/04 4:51:06 PM
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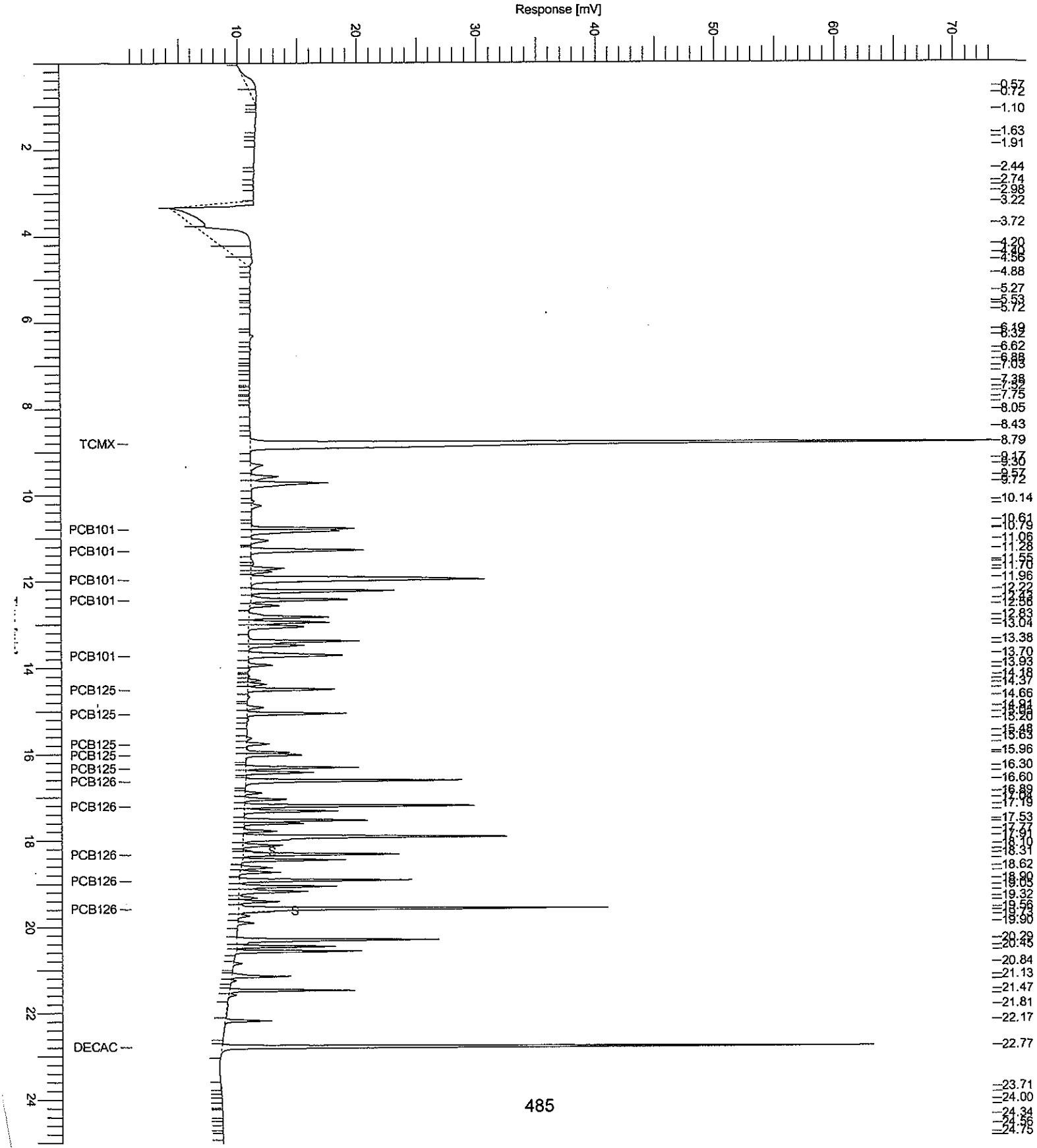

GC22 Rtx-CLPesticides II

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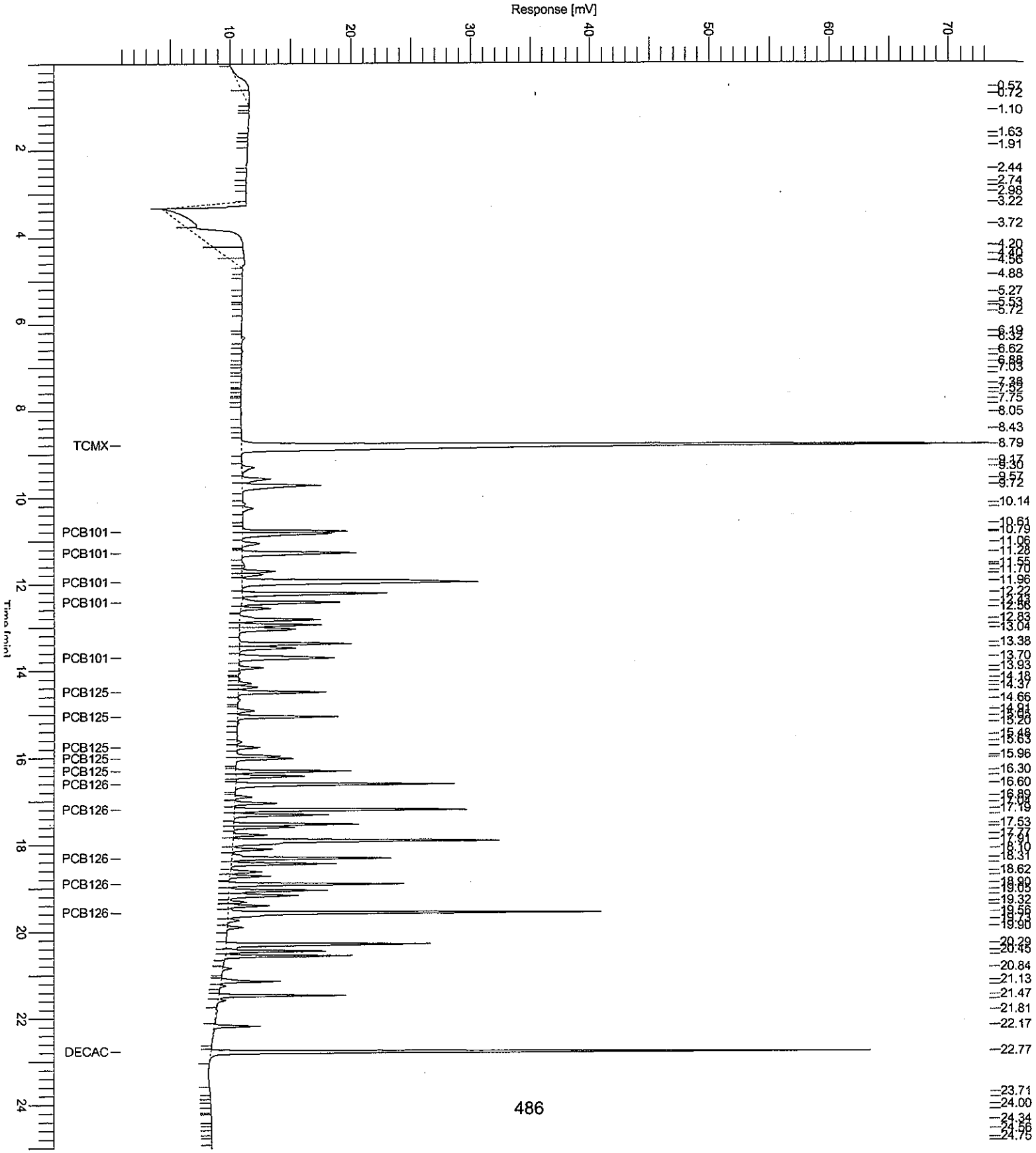

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254473018042
Calnum : 254453315001
Standards: 04WS2184

Run Name : ar1254
Filename : 328_042
Caldate : 09-NOV-2004

IDF : 1.0
Injected : 24-NOV-2004 17:41
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	302.4790	pg	21	15	c+ ***
Aroclor-1254	B			250.0000	280.0170	pg	12	15	

+=high bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 42

Date : 11/29/04 11:30:28 AM
Data Acquisition Time : 11/24/04 5:41:18 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a042p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.072	168385.50	55.1243	1.000	1	55.12	11.02
Aroclor-1016	12.818	15108.32	50.1156	1.000	1	50.12	10.02
Aroclor-1254	15.469	148435.09	0.1484	1.000	1	0.15	0.03
Aroclor-1260	16.621	56901.44	102.1340	1.000	1	102.13	20.43
Decachlorobiphenyl	21.818	88521.77	69.1371	1.000	1	69.14	13.83
		477352.13	276.6594			276.66	55.33

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.123	1011.57	9.5733	1.000	1	9.57	1.91
PCB1016#2	11.917	448.98	7.5364	1.000	1	7.54	1.51
PCB1016#3	12.381	1015.00	28.0980	1.000	1	28.10	5.62
PCB1016#4	12.818	9151.68	146.6979	1.000	1	146.70	29.34
PCB1016#5	13.040	3481.09	92.2860	1.000	1	92.29	18.46
		15108.32	284.1917			284.19	56.84

Gf
11/29/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.801	22987.64	316.2523	1.000	1	316.25	63.25
PCB1254#2	14.452	32074.99	253.8643	1.000	1	253.86	50.77
PCB1254#3	15.164	24812.99	315.6913	1.000	1	315.69	63.14
PCB1254#4	15.469	40622.45	313.7906	1.000	1	313.79	62.76
PCB1254#5	16.167	27937.02	312.7965	1.000	1	312.80	62.56
		148435.09	1512.3950			1512.39	302.48

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.920	14777.81	147.9907	1.000	1	147.99	29.60
PCB1260#2	16.621	28383.00	189.4978	1.000	1	189.50	37.90
PCB1260#3	17.530	6147.00	88.4383	1.000	1	88.44	17.69
PCB1260#4	18.200	2702.95	35.0097	1.000	1	35.01	7.00
PCB1260#5	18.965	4890.69	30.4190	1.000	1	30.42	6.08
		56901.44	491.3555			491.36	98.27

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\328a042p.TX0

GC22 Rtx-CLPesticides

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHA\328a042.raw
ate : 11/29/04 11:30:34 AM
ethod : Time of Injection: 11/24/04 5:41:18 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.64 mV High Point : 45.89 mV
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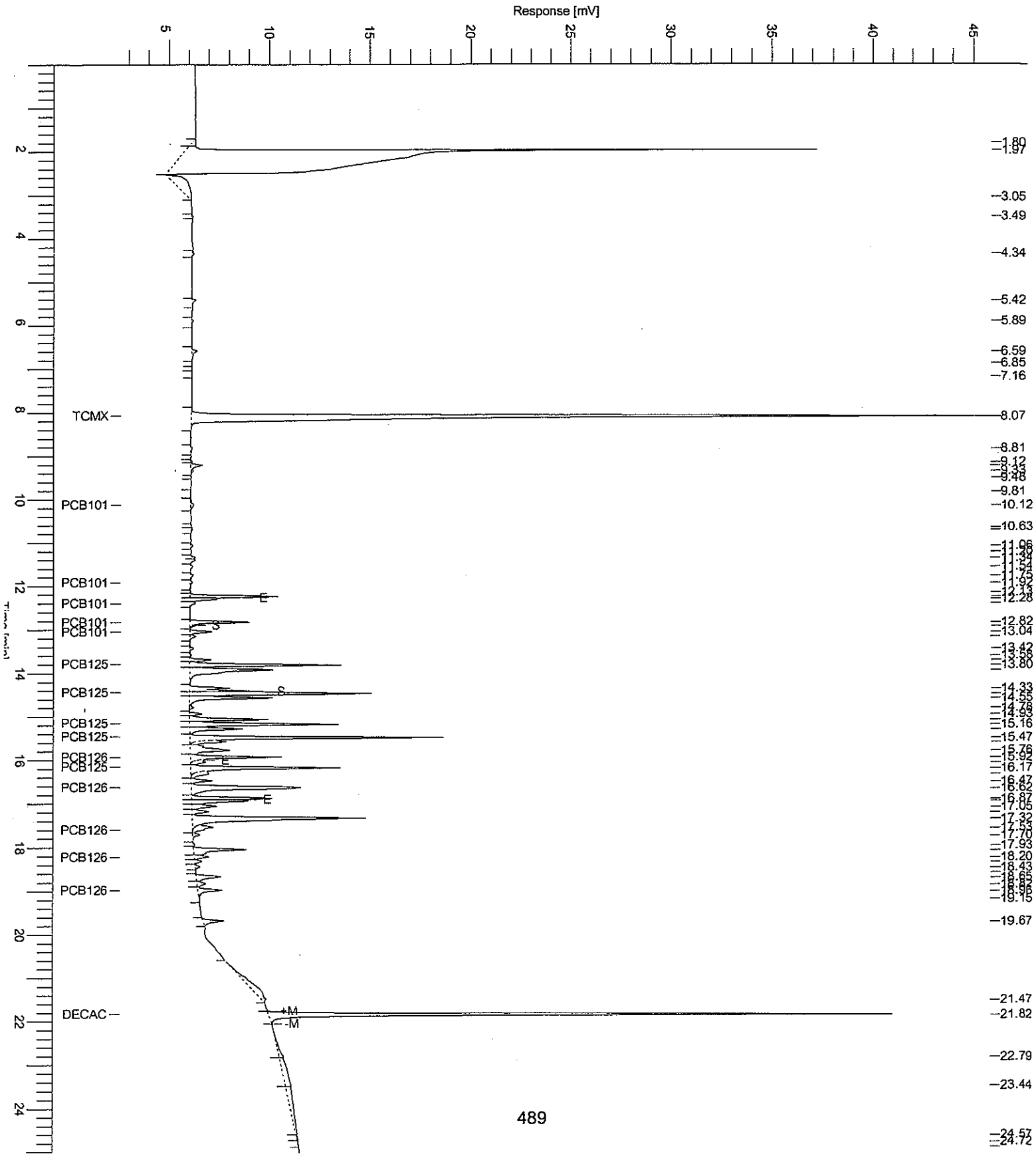
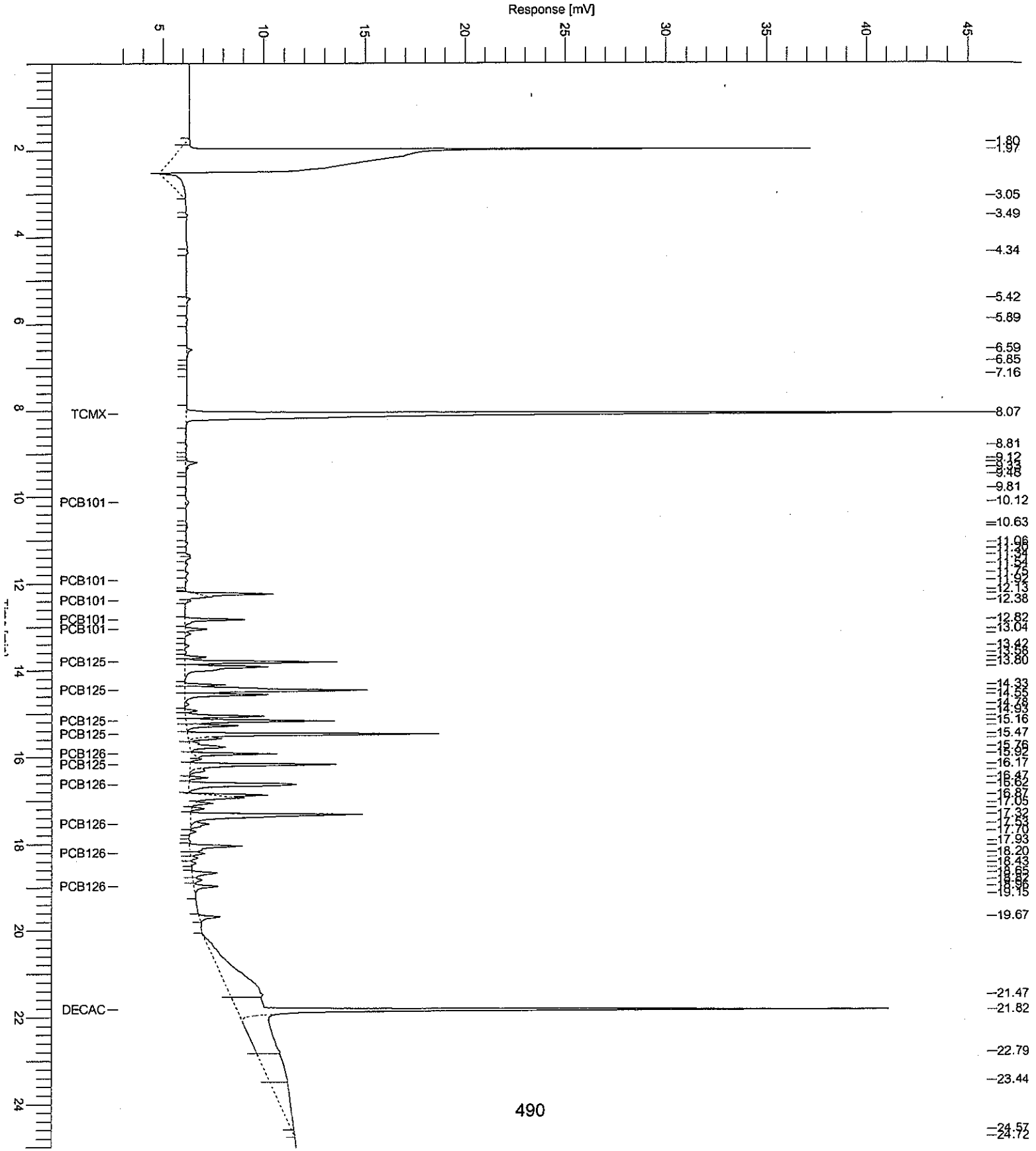


GC22 Rtx-CLPesticides

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHA\328a042.raw
ate : 11/29/04 10:58:17 AM
ethod : gc22ins Time of Injection: 11/24/04 5:41:18 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 2.75 mV High Point : 45.89 mV
cale Factor: 1.0 Plot Offset: 2.75 mV Plot Scale: 43.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 42

Date : 11/29/04 11:27:26 AM
Data Acquisition Time : 11/24/04 5:41:18 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b042p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.806	152400.00	51.5151	1.000	1	51.52	10.30
Aroclor-1016	13.714	6217.50	13.4995	1.000	1	13.50	2.70
Aroclor-1254	16.017	130792.70	0.1308	1.000	1	0.13	0.03
Aroclor-1260	16.650	63574.05	112.4704	1.000	1	112.47	22.49
Decachlorobiphenyl	22.780	93558.51	66.3087	1.000	1	66.31	13.26
		446542.76	243.9245			243.92	48.78

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.791	620.00	12.2243	1.000	1	12.22	2.44
PCB1016#2	11.288	381.00	5.2765	1.000	1	5.28	1.06
PCB1016#3	11.958	1074.50	5.1613	1.000	1	5.16	1.03
PCB1016#4	12.432	217.00	3.6767	1.000	1	3.68	0.74
PCB1016#5	13.714	3925.00	55.7206	1.000	1	55.72	11.14
		6217.50	82.0594			82.06	16.41

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.500	24435.84	281.8541	1.000	1	281.85	56.37
PCB1254#2	15.063	33178.30	283.5315	1.000	1	283.53	56.71
PCB1254#3	15.765	23577.96	279.8591	1.000	1	279.86	55.97
PCB1254#4	16.017	41214.03	281.8570	1.000	1	281.86	56.37
PCB1254#5	16.320	8386.56	272.9834	1.000	1	272.98	54.60
		130792.70	1400.0852			1400.09	280.02

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.650	39749.06	347.1535	1.000	1	347.15	69.43
PCB1260#2	17.201	15513.49	131.8082	1.000	1	131.81	26.36
PCB1260#3	18.316	1648.00	22.1703	1.000	1	22.17	4.43
PCB1260#4	18.915	1961.50	23.9366	1.000	1	23.94	4.79
PCB1260#5	19.569	4702.00	26.5988	1.000	1	26.60	5.32
		63574.05	551.6675			551.67	110.33

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Report stored in ASCII file: G:\gc22\CHB\328b042p.TX0

GC22 Rtx-CLPesticides II

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHb\328b042.raw
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ethod : Time of Injection: 11/24/04 5:41:18 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 6.06 mV High Point : 44.90 mV
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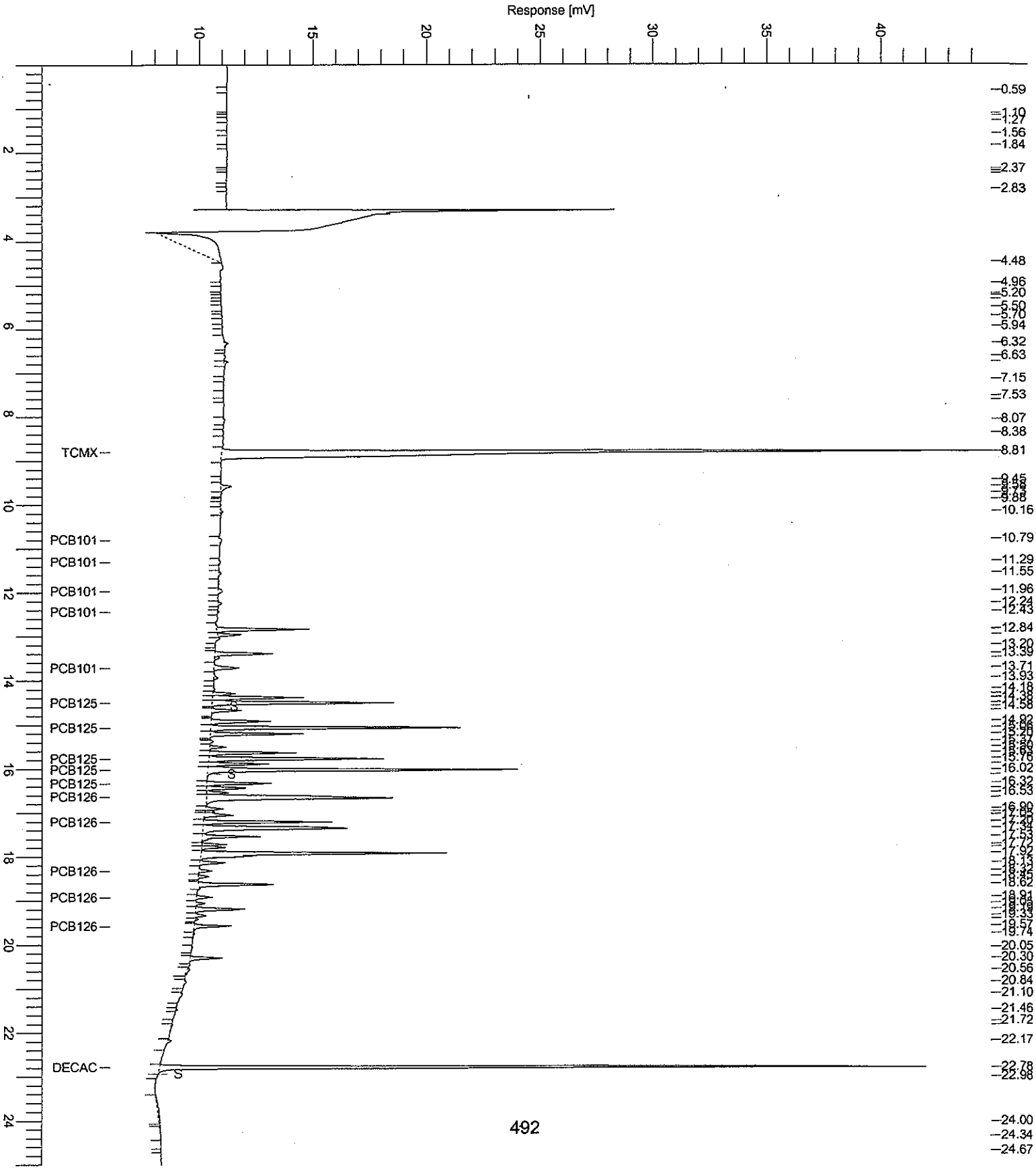

GC22 Rtx-CLPesticides II

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ileName : G:\gc22\CHb\328b042
ate : 11/29/04 11:00:54 AM
lethod : gc22ins Time of Injection: 11/24/04 5:41:18 PM
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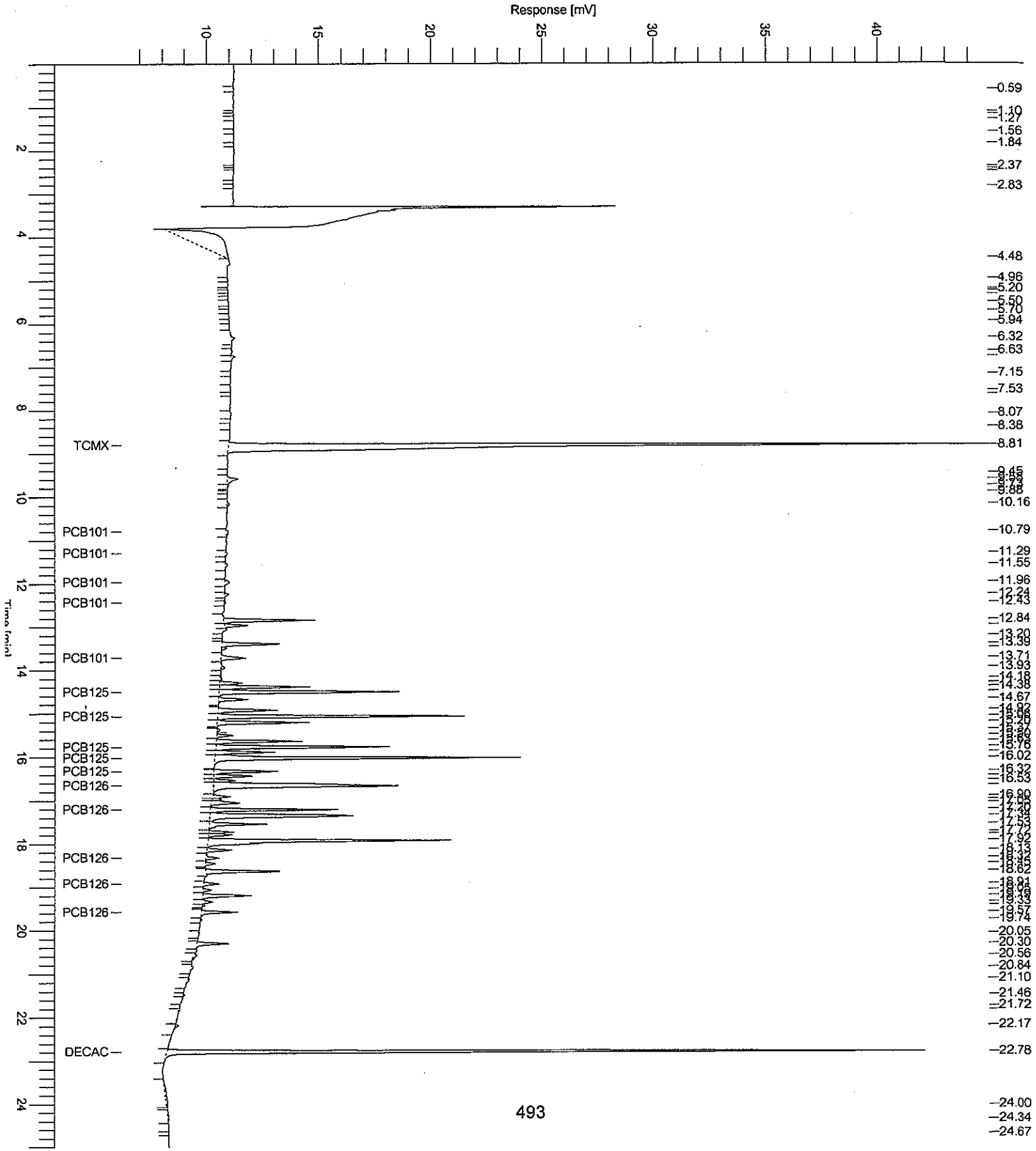
cale Factor: 1.0 Plot Offset: 6.16 mV Plot Scale: 38.7 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22 Run Name : pcb250_50 IDF : 1.0
Seqnum : 254473018056 Filename : 328_056 Injected : 25-NOV-2004 00:07
Calnum : 254452018001 Caldate : 08-NOV-2004 Caltype :
Standards: 04WS2130

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	255.2247	pg	2	15	
Aroclor-1260	A			250.0000	329.4102	pg	32	15	c+ ***
TCMX	A	3054.7	3434.4	50.00000	56.21543	pg	12	15	
Decachlorobiphenyl	A	1280.4	1710.3	50.00000	66.78839	pg	34	15	c+
Aroclor-1016	B			250.0000	259.5000	pg	4	15	
Aroclor-1260	B			250.0000	283.8673	pg	14	15	
TCMX	B	2958.4	3051.5	50.00000	51.57373	pg	3	15	
Decachlorobiphenyl	B	1411.0	1694.8	50.00000	60.05840	pg	20	15	c+

+=high bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 56

Date : 11/29/04 11:13:17 AM
Data Acquisition Time : 11/25/04 12:07:38 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a056p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.035	171718.65	56.2154	1.000	1	56.22	11.24
Aroclor-1016	10.088	76216.91	252.8181	1.000	1	252.82	50.56
Aroclor-1254	14.430	48287.76	0.0483	1.000	1	0.05	0.01
Aroclor-1260	18.936	183696.55	329.7220	1.000	1	329.72	65.94
Decachlorobiphenyl	21.801	85514.51	66.7884	1.000	1	66.79	13.36
		565434.38	705.5922			705.59	141.12

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.088	30474.42	288.4036	1.000	1	288.40	57.68
PCB1016#2	11.883	16716.74	280.6014	1.000	1	280.60	56.12
PCB1016#3	12.360	10761.43	297.9062	1.000	1	297.91	59.58
PCB1016#4	12.858	7154.42	114.6825	1.000	1	114.68	22.94
PCB1016#5	13.014	11109.90	294.5306	1.000	1	294.53	58.91
		76216.91	1276.1243			1276.12	255.22

GP
11/29/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.770	11536.13	158.7083	1.000	1	158.71	31.74
PCB1254#2	14.430	15516.20	122.8063	1.000	1	122.81	24.56
PCB1254#3	15.119	8739.09	111.1859	1.000	1	111.19	22.24
PCB1254#4	15.440	7538.46	58.2313	1.000	1	58.23	11.65
PCB1254#5	16.146	4957.88	55.5108	1.000	1	55.51	11.10
		48287.76	506.4425			506.44	101.29

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.896	32637.73	326.8469	1.000	1	326.85	65.37
PCB1260#2	16.586	46624.82	311.2884	1.000	1	311.29	62.26
PCB1260#3	17.557	23351.65	335.9652	1.000	1	335.97	67.19
PCB1260#4	18.179	25047.41	324.4248	1.000	1	324.42	64.88
PCB1260#5	18.936	56034.95	348.5252	1.000	1	348.53	69.71
		183696.55	1647.0505			1647.05	329.41

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Report stored in ASCII file: G:\gc22\CHA\328a056p.TX0

GC22 Rtx-CLPesticides

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ileName : G:\gc22\CHA\328a056.raw
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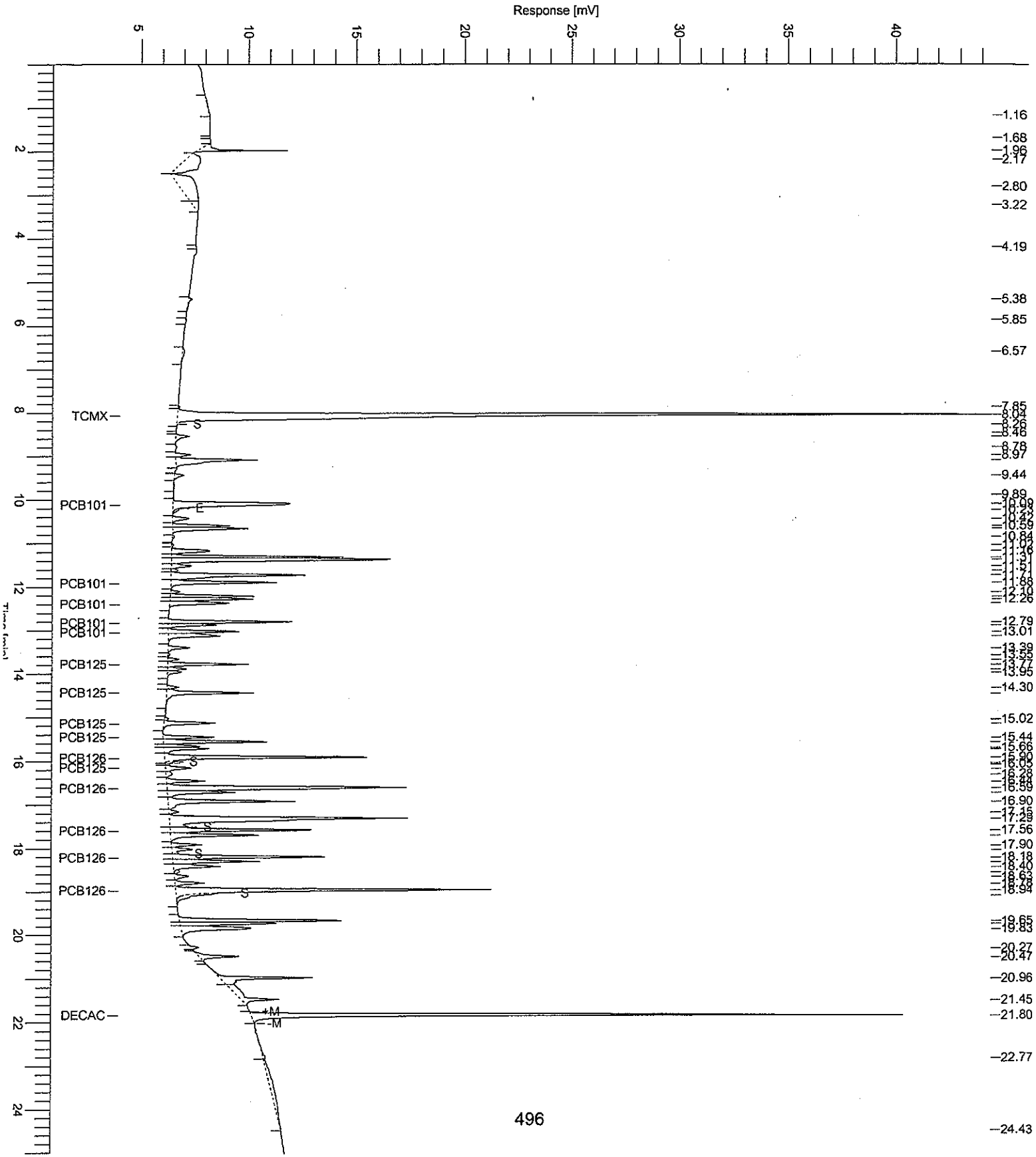
lethod : Time of Injection: 11/25/04 12:07:38 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 4.03 mV High Point : 44.45 mV
lot Offset: 4.03 mV Plot Scale: 40.4 mV



GC22 Rtx-CLPesticides

ample Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
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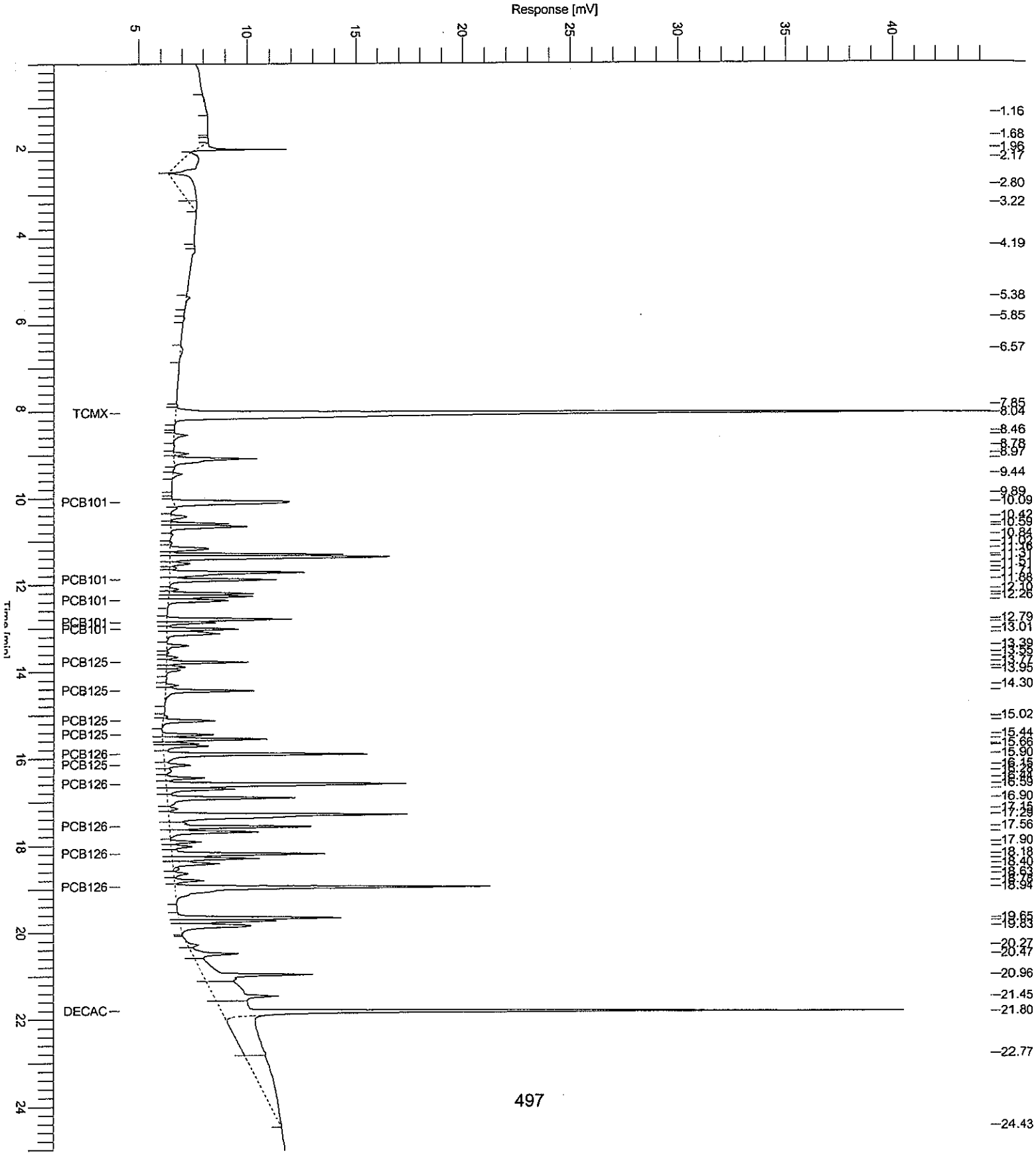
ate : 11/29/04 10:58:27 AM
ethod : gc22ins Time of Injection: 11/25/04 12:07:38 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 4.13 mV High Point : 44.45 mV
cale Factor: 1.0 Plot Offset: 4.13 mV Plot Scale: 40.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 56

Date : 11/29/04 11:11:33 AM
Data Acquisition Time : 11/25/04 12:07:38 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b056p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.786	152573.41	51.5737	1.000	1	51.57	10.31
Aroclor-1016	11.945	118416.57	257.1081	1.000	1	257.11	51.42
Aroclor-1254	16.294	53908.61	0.0539	1.000	1	0.05	0.01
Aroclor-1260	19.552	160762.39	284.4087	1.000	1	284.41	56.88
Decachlorobiphenyl	22.763	84739.68	60.0584	1.000	1	60.06	12.01
		570400.65	653.2029			653.20	130.64

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.804	13808.38	272.2533	1.000	1	272.25	54.45
PCB1016#2	11.270	18590.48	257.4612	1.000	1	257.46	51.49
PCB1016#3	11.945	52798.53	253.6148	1.000	1	253.61	50.72
PCB1016#4	12.417	15501.17	262.6397	1.000	1	262.64	52.53
PCB1016#5	13.696	17718.00	251.5308	1.000	1	251.53	50.31
		118416.57	1297.4998			1297.50	259.50

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.481	12359.04	142.5548	1.000	1	142.55	28.51
PCB1254#2	15.039	12144.01	103.7790	1.000	1	103.78	20.76
PCB1254#3	15.746	3056.73	36.2819	1.000	1	36.28	7.26
PCB1254#4	15.996	12531.52	85.7013	1.000	1	85.70	17.14
PCB1254#5	16.294	13817.30	449.7544	1.000	1	449.75	89.95
		53908.61	818.0714			818.07	163.61

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.597	30401.00	265.5111	1.000	1	265.51	53.10
PCB1260#2	17.183	32426.73	275.5091	1.000	1	275.51	55.10
PCB1260#3	18.299	21379.22	287.6120	1.000	1	287.61	57.52
PCB1260#4	18.897	24080.29	293.8568	1.000	1	293.86	58.77
PCB1260#5	19.552	52475.16	296.8476	1.000	1	296.85	59.37
		160762.39	1419.3366			1419.34	283.87

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHB\328b056p.TX0

GC22 Rtx-CLPesticides II

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ethod :
Time of Injection: 11/25/04 12:07:38 AM
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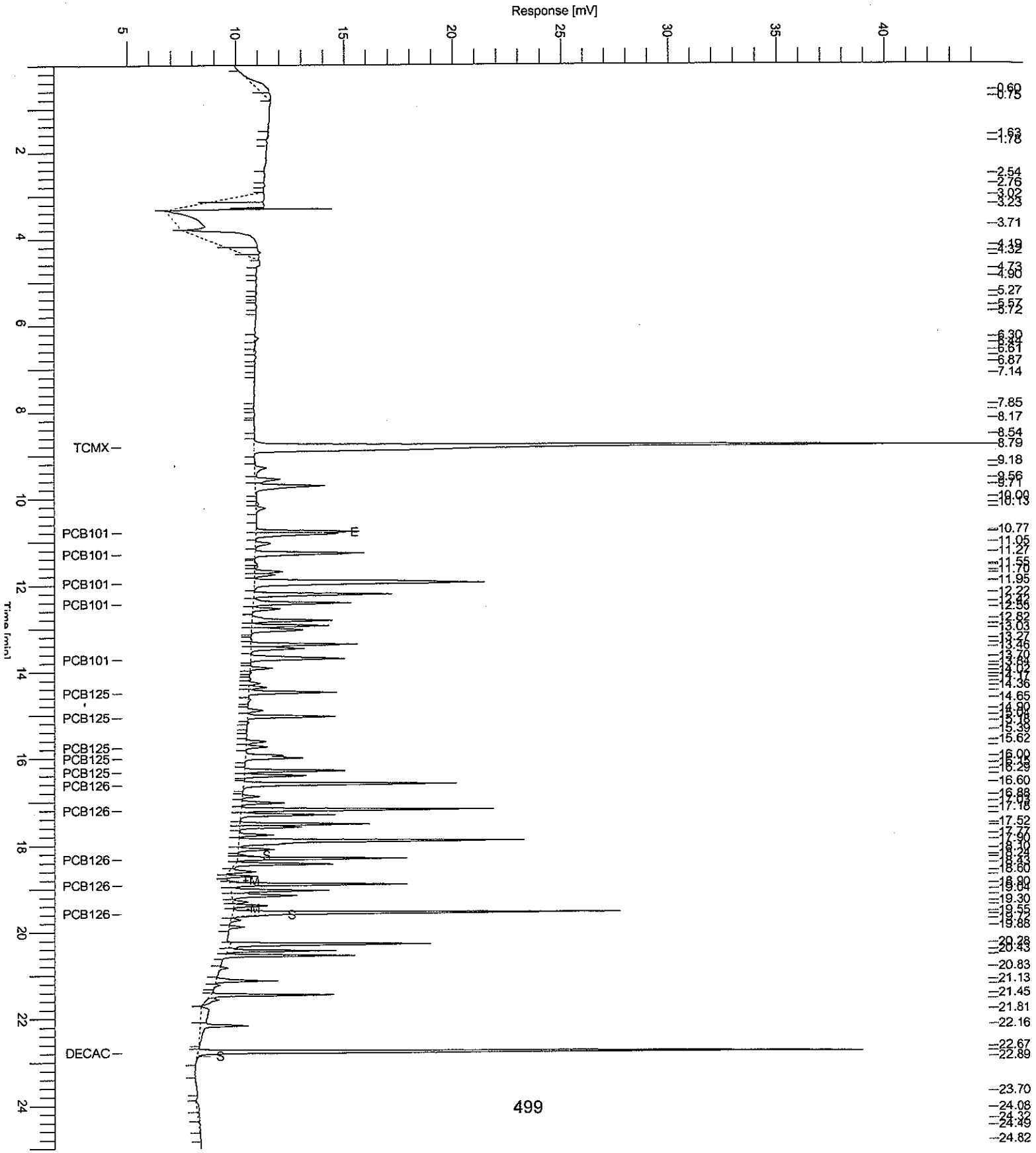

GC22 Rtx-CLPesticides II

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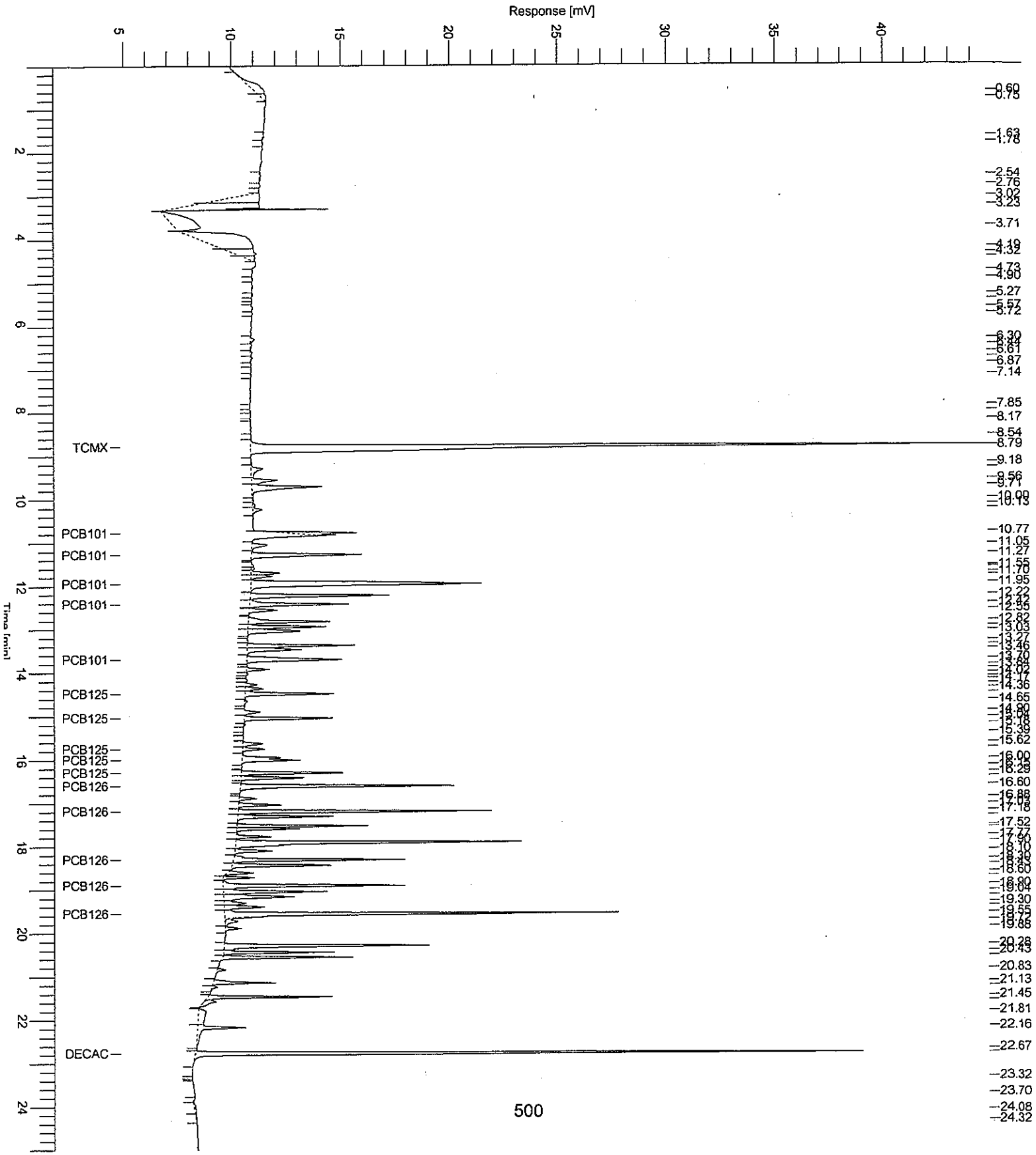


CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC22
Seqnum : 254473018058
Calnum : 254453315001
Standards: 04WS2184

Run Name : ar1254
Filename : 328_058
Caldate : 09-NOV-2004

IDF : 1.0
Injected : 25-NOV-2004 01:02
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	308.7108	pg	23	15	c+ ***
Aroclor-1254	B			250.0000	275.2554	pg	10	15	

+=high bias c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 58

Date : 11/29/04 11:15:26 AM
Data Acquisition Time : 11/25/04 1:02:51 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHA\328a058p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL A METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.037	170565.00	55.8378	1.000	1	55.84	11.17
Aroclor-1016	12.787	15475.26	51.3328	1.000	1	51.33	10.27
Aroclor-1254	15.445	150919.15	0.1509	1.000	1	0.15	0.03
Aroclor-1260	16.595	51877.62	93.1166	1.000	1	93.12	18.62
Decachlorobiphenyl	21.801	96048.59	75.0157	1.000	1	75.02	15.00
		484885.62	275.4537			275.45	55.09

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.089	635.00	6.0095	1.000	1	6.01	1.20
PCB1016#2	11.883	337.00	5.6568	1.000	1	5.66	1.13
PCB1016#3	12.346	648.00	17.9384	1.000	1	17.94	3.59
PCB1016#4	12.787	10163.49	162.9169	1.000	1	162.92	32.58
PCB1016#5	13.014	3691.76	97.8711	1.000	1	97.87	19.57
		15475.26	290.3927			290.39	58.08

GP
11/29/04

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	13.771	23574.67	324.3284	1.000	1	324.33	64.87
PCB1254#2	14.429	30249.61	239.4169	1.000	1	239.42	47.88
PCB1254#3	15.135	25784.54	328.0522	1.000	1	328.05	65.61
PCB1254#4	15.445	42244.20	326.3179	1.000	1	326.32	65.26
PCB1254#5	16.138	29066.13	325.4386	1.000	1	325.44	65.09
		150919.15	1543.5539			1543.55	308.71

Group Report For : Aroclor-1260

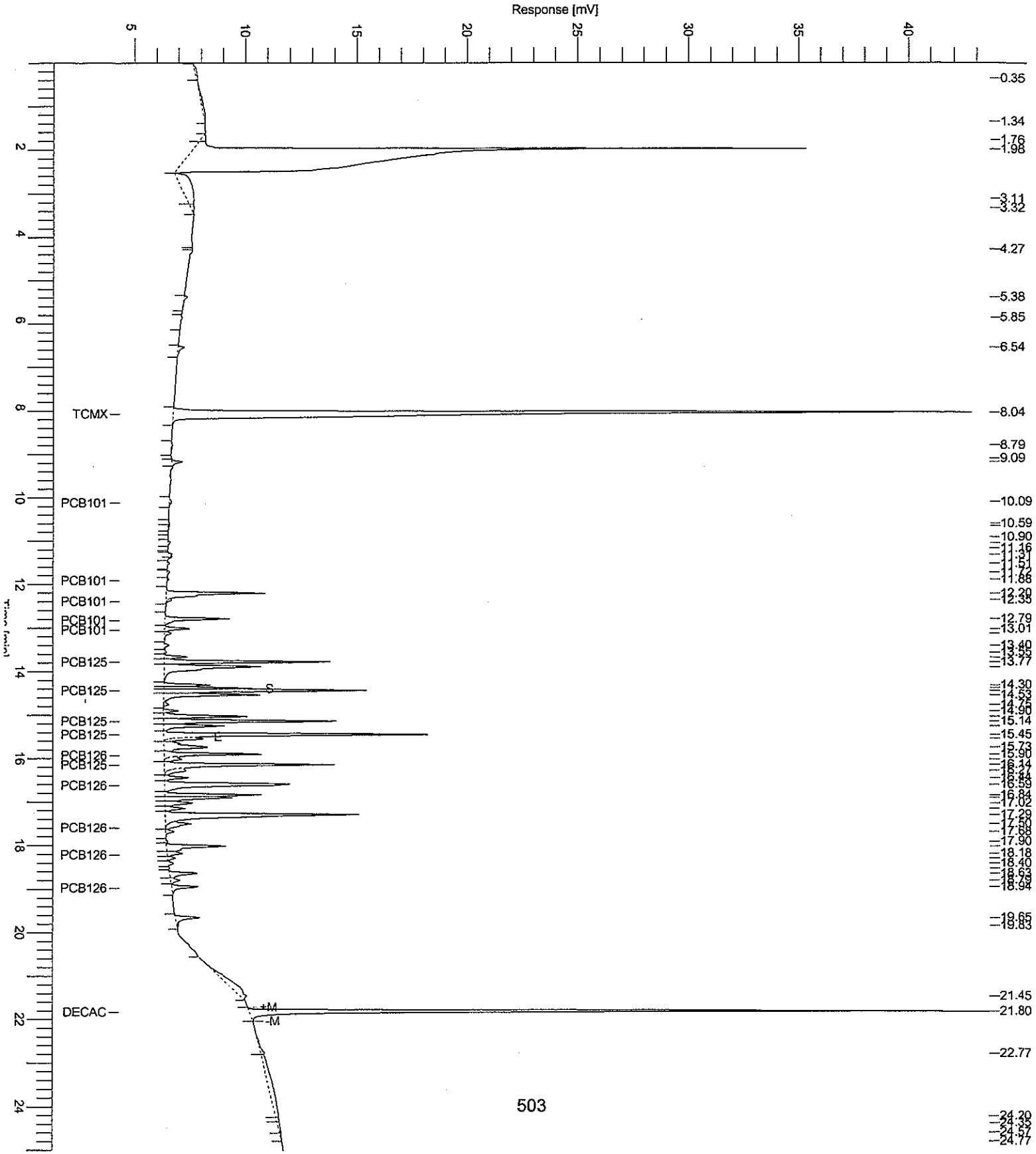
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	15.897	15062.46	150.8413	1.000	1	150.84	30.17
PCB1260#2	16.595	29321.85	195.7660	1.000	1	195.77	39.15
PCB1260#3	17.599	0.00	0.0000	1.000	1	0.00	0.00
PCB1260#4	18.178	2813.62	36.4432	1.000	1	36.44	7.29
PCB1260#5	18.938	4679.69	29.1067	1.000	1	29.11	5.82
		51877.62	412.1572			412.16	82.43

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc22\CHA\328a058p.TX0

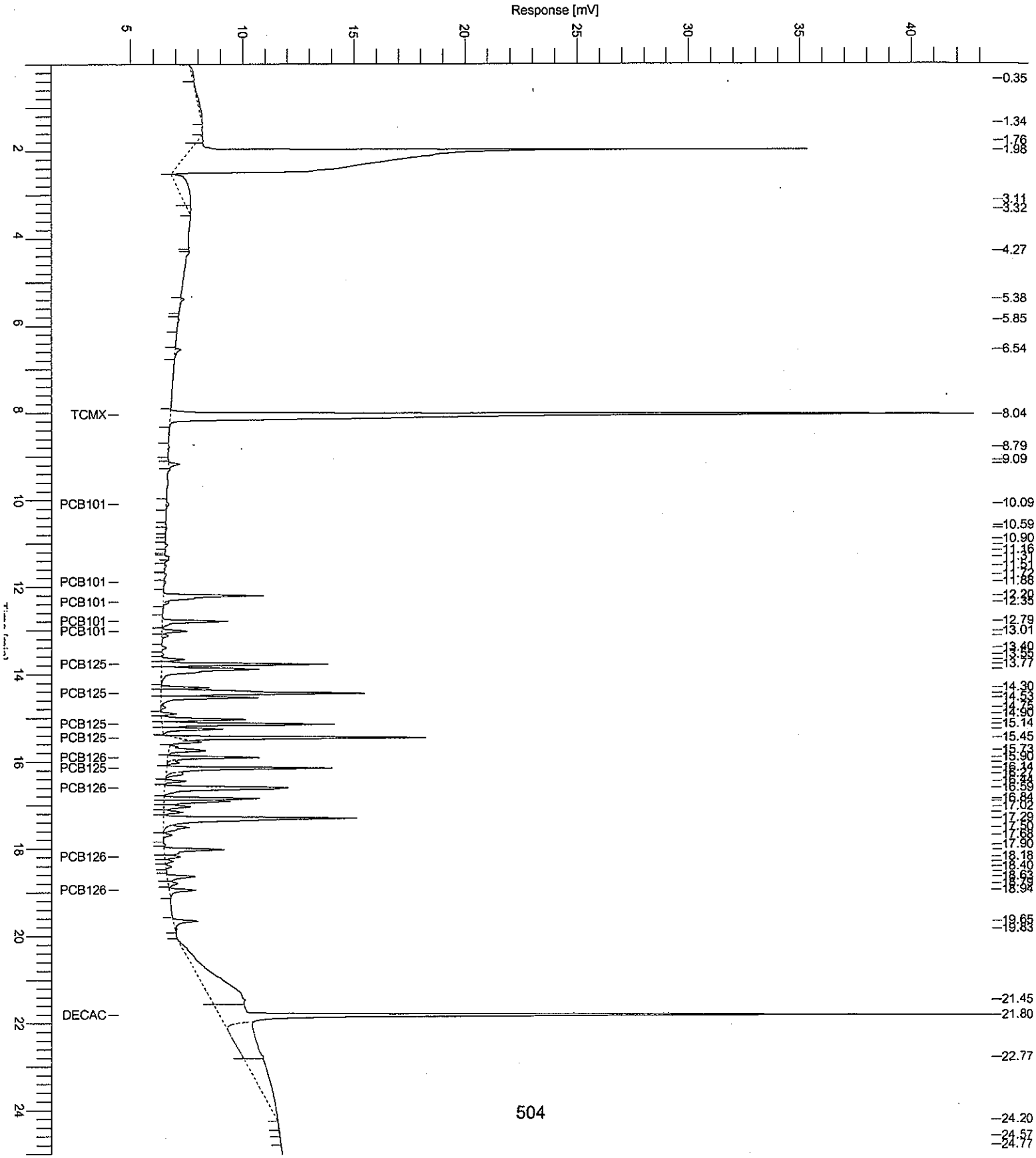
GC22 Rtx-CLPesticides

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHA\328a058.raw
ate : 11/29/04 11:15:31 AM
ethod : Time of Injection: 11/25/04 1:02:51 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 4.34 mV High Point : 43.61 mV
lot Offset: 4.34 mV Plot Scale: 39.3 mV



GC22 Rtx-CLPesticides

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHA\328a058.raw
ate : 11/29/04 10:58:37 AM
ethod : gc22ins Time of Injection: 11/25/04 1:02:51 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 4.44 mV High Point : 43.61 mV
cale Factor: 1.0 Plot Offset: 4.44 mV Plot Scale: 39.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc22
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 58

Date : 11/29/04 11:16:36 AM
Data Acquisition Time : 11/25/04 1:02:51 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc22\CHB\328b058p.rst
Sequence File : G:\gc22\files\328.seq

PCB GC22 CHANNEL B METH. 8082

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
TCMX	8.788	156928.17	53.0457	1.000	1	53.05	10.61
Aroclor-1016	13.697	5688.70	12.3514	1.000	1	12.35	2.47
Aroclor-1254	16.000	127872.89	0.1279	1.000	1	0.13	0.03
Aroclor-1260	16.632	61752.27	109.2475	1.000	1	109.25	21.85
Decachlorobiphenyl	22.762	88524.00	62.7405	1.000	1	62.74	12.55
		440766.03	237.5130			237.51	47.50

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1016#1	10.779	148.00	2.9180	1.000	1	2.92	0.58
PCB1016#2	11.269	457.74	6.3393	1.000	1	6.34	1.27
PCB1016#3	11.938	993.00	4.7698	1.000	1	4.77	0.95
PCB1016#4	12.421	280.50	4.7526	1.000	1	4.75	0.95
PCB1016#5	13.697	3809.46	54.0804	1.000	1	54.08	10.82
		5688.70	72.8602			72.86	14.57

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1254#1	14.482	24402.45	281.4689	1.000	1	281.47	56.29
PCB1254#2	15.046	32986.00	281.8882	1.000	1	281.89	56.38
PCB1254#3	15.748	23043.31	273.5131	1.000	1	273.51	54.70
PCB1254#4	16.000	39080.45	267.2657	1.000	1	267.27	53.45
PCB1254#5	16.302	8360.68	272.1407	1.000	1	272.14	54.43
		127872.89	1376.2766			1376.28	275.26

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]	Concentration/Peaks [ug/Kg - ug/L]
PCB1260#1	16.632	39075.84	341.2739	1.000	1	341.27	68.25
PCB1260#2	17.184	14814.70	125.8710	1.000	1	125.87	25.17
PCB1260#3	18.299	1367.00	18.3901	1.000	1	18.39	3.68
PCB1260#4	18.898	2071.53	25.2793	1.000	1	25.28	5.06
PCB1260#5	19.553	4423.21	25.0217	1.000	1	25.02	5.00
		61752.27	535.8360			535.84	107.17

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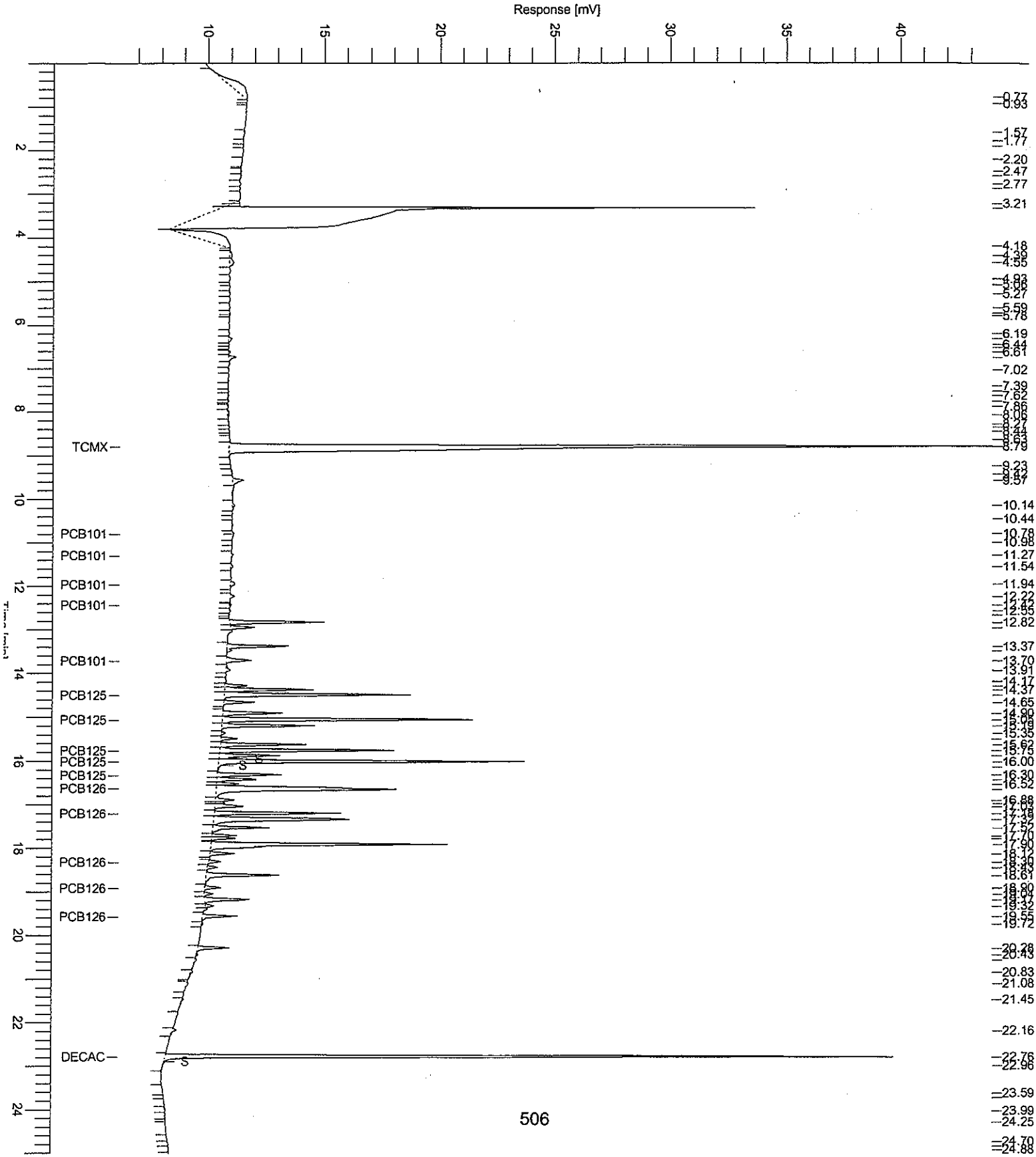
Report stored in ASCII file: G:\gc22\CHB\328b058p.TX0

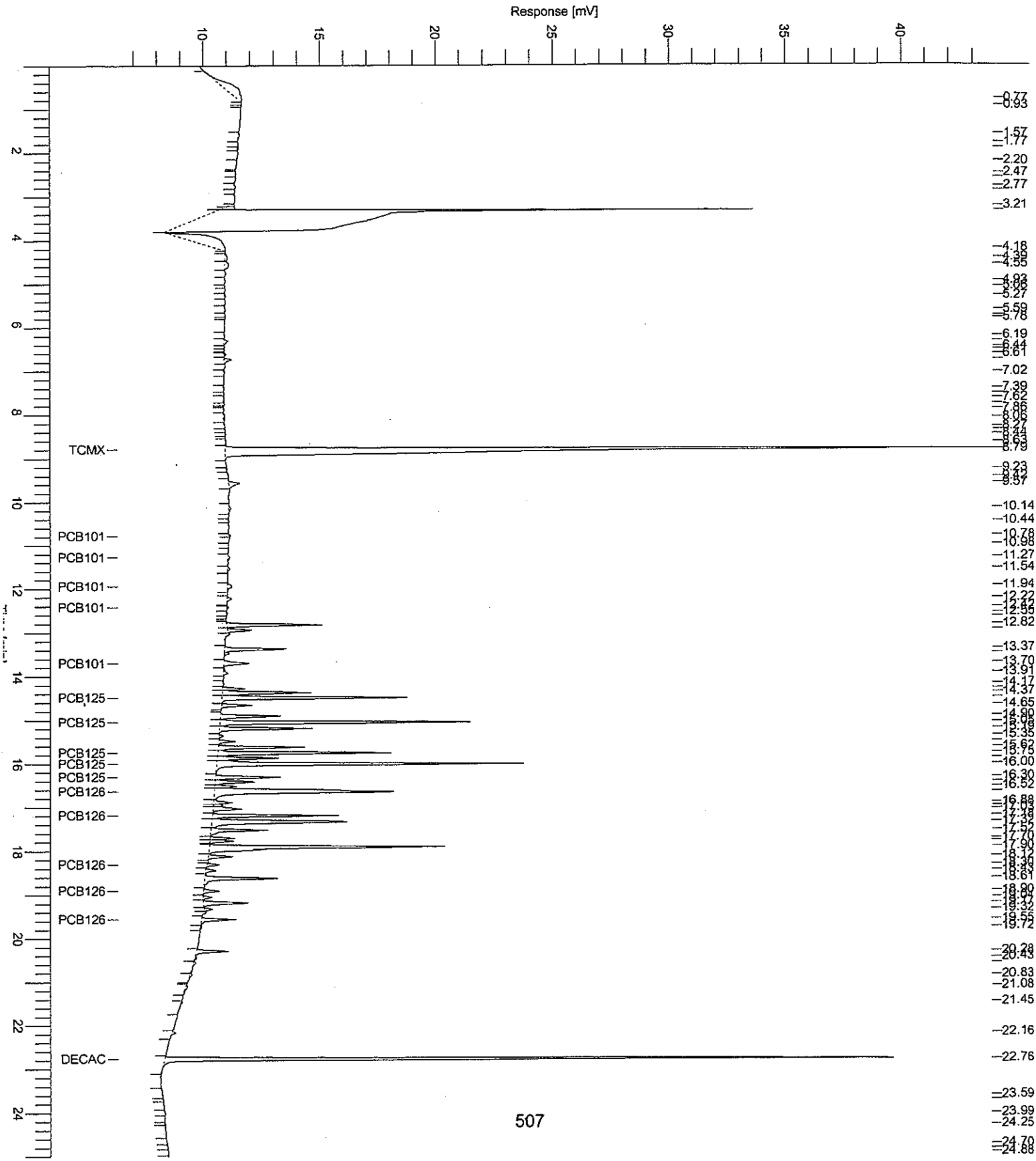
GC22 Rtx-CLPesticides II

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc22\CHb\328b058.raw
ate : 11/29/04 11:16:42 AM
ethod : Time of Injection: 11/25/04 1:02:51 AM
art Time : 0.00 min End Time : 25.00 min Low Point : 6.21 mV High Point : 43.91 mV
ot Offset: 6.21 mV Plot Scale: 37.7 mV



GC22 Rtx-CLPesticides II

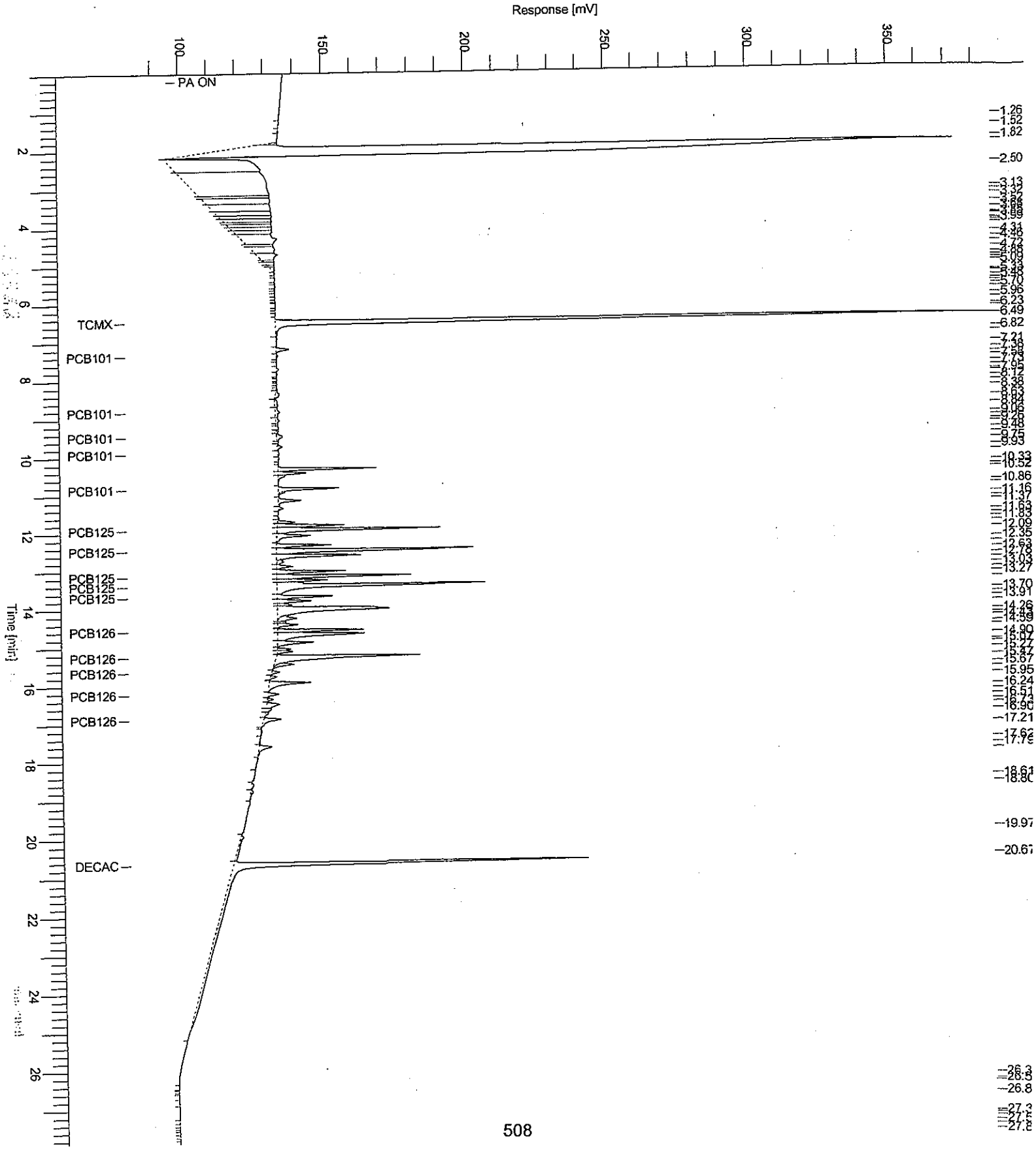
mple Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
eName : G:\gc22\CHb\328b058
te : 11/29/04 11:01:14 AM
thod : gc22ins Time of Injection: 11/25/04 1:02:51 AM
rt Time : 0.00 min End Time : 25.00 min Low Point : 6.30 mV High Point : 43.91 mV
ale Factor: 1.0 Plot Offset: 6.30 mV Plot Scale: 37.6 mV



Sample Name : x,ccv,04ws2184,ar1254
FileName : G:\gc06\chb\334b065
Date : 12/1/04 3:41:08 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 12/1/04 2:22:58 PM
End Time : 27.88 min
Low Point : 80.09 mV
High Point : 386.93 mV
Plot Offset: 80.09 mV
Plot Scale: 306.8 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766004
Calnum : 204456284001
Standards: 04WS2130

Run Name : pcb250_50
Filename : 334_004
Caldate : 11-NOV-2004

IDF : 1.0
Injected : 29-NOV-2004 13:59
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	242.2546	pg	-3	15	
Aroclor-1260	A			250.0000	244.9416	pg	-2	15	
TCMX	A	11170	10090	50.00000	45.16802	pg	-10	15	
Decachlorobiphenyl	A	8143.9	8517.9	50.00000	52.29653	pg	5	15	
Aroclor-1016	B			250.0000	264.5558	pg	6	15	
Aroclor-1260	B			250.0000	252.5781	pg	1	15	
TCMX	B	19793	18445	50.00000	46.59610	pg	-7	15	
Decachlorobiphenyl	B	9422.9	10127	50.00000	53.73740	pg	7	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2130,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/4
Sample Amount : 1.000000
Cycle : 4

Date : 11/29/04 2:46:20 PM
Data Acquisition Time : 11/29/04 1:59:30 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a004p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.667	504522.41	45.17	1.0000	1	45.17	9.03
Aroclor-1016	10.881	387886.04	241.14	1.0000	1	241.14	48.23
Aroclor-1254	16.017	345365.52	0.35	1.0000	1	0.35	0.07
Aroclor-1260	18.334	557504.69	243.07	1.0000	1	243.07	48.61
Decachlorobiphenyl	21.667	425896.48	52.30	1.0000	1	52.30	10.46
		2221175.14	582.02			582.02	116.40

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.682	57798.78	240.23	1.0000	1	240.23	48.05
PCB1016#2	9.646	106058.08	229.90	1.0000	1	229.90	45.98
PCB1016#3	10.881	126312.78	247.65	1.0000	1	247.65	49.53
PCB1016#4	11.391	56384.32	244.55	1.0000	1	244.55	48.91
PCB1016#5	11.861	41332.08	248.95	1.0000	1	248.95	49.79
		387886.04	1211.27			1211.27	242.25

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.248	43594.60	120.43	1.0000	1	120.43	24.09
PCB1254#2	13.893	59347.68	90.35	1.0000	1	90.35	18.07
PCB1254#3	14.572	32289.76	82.27	1.0000	1	82.27	16.45
PCB1254#4	15.579	17170.71	37.49	1.0000	1	37.49	7.50
PCB1254#5	16.017	192962.78	409.20	1.0000	1	409.20	81.84
		345365.52	739.73			739.73	147.95

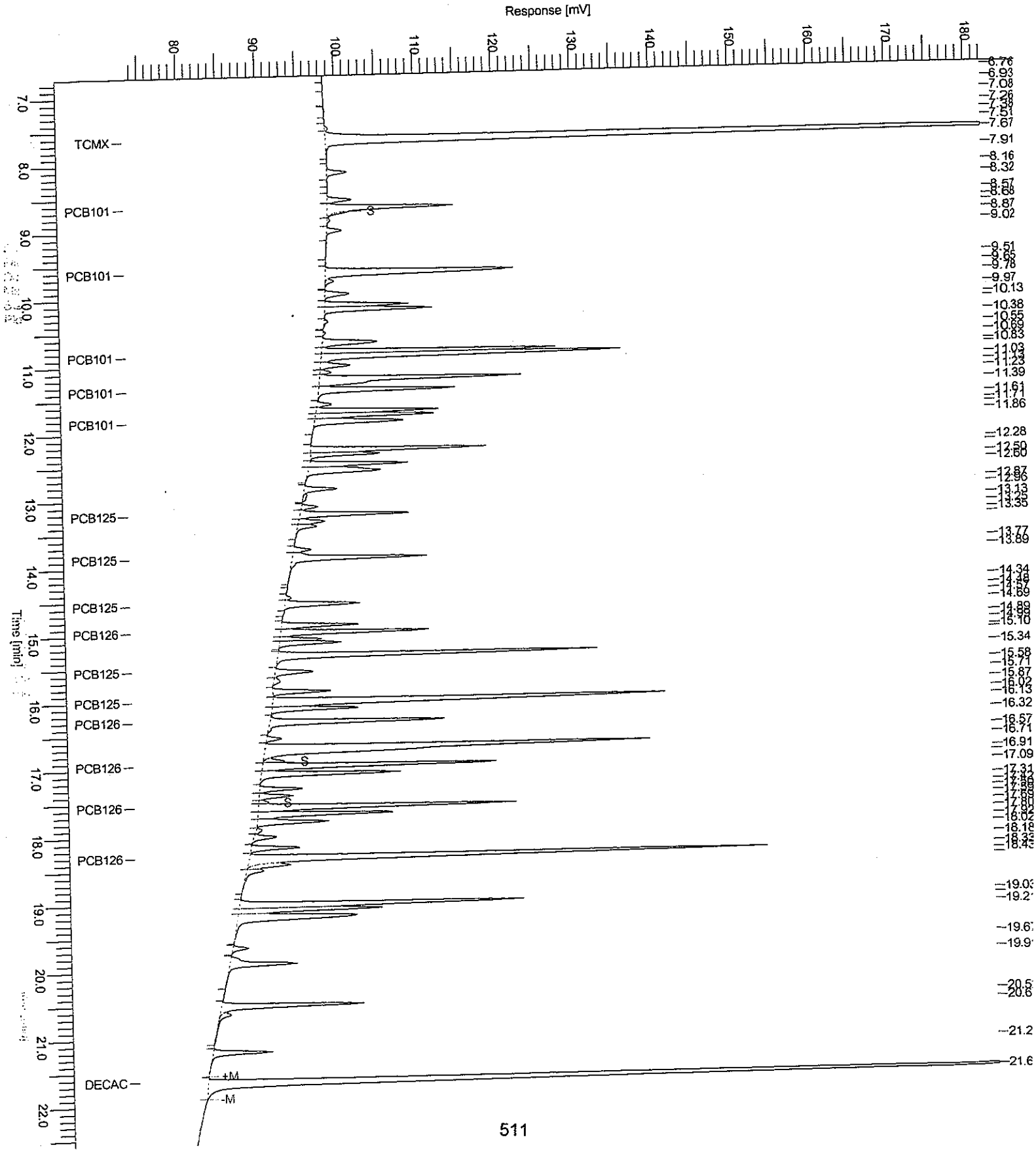
Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.990	59130.38	249.77	1.0000	1	249.77	49.95
PCB1260#2	16.325	77277.74	239.84	1.0000	1	239.84	47.97
PCB1260#3	16.978	98082.32	257.06	1.0000	1	257.06	51.41
PCB1260#4	17.586	104470.45	239.84	1.0000	1	239.84	47.97
PCB1260#5	18.334	218543.80	238.20	1.0000	1	238.20	47.64
		557504.69	1224.71			1224.71	244.94

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a004p.TX0

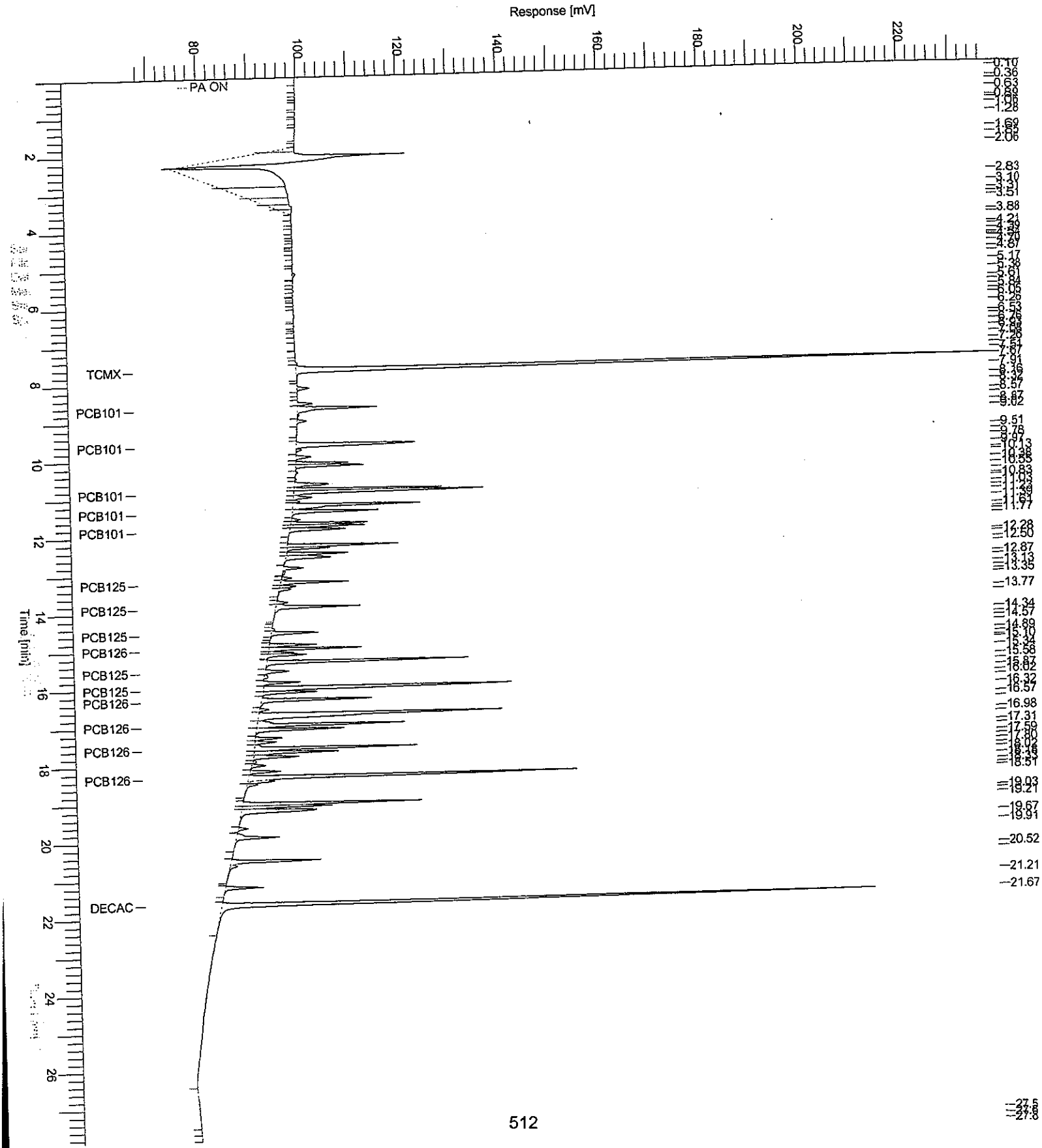
Sample Name : x,ccv,04ws2130,pcb250_50 Sample #: 250ug/l
FileName : G:\gc06\cha\334a004.raw
Date : 11/29/04 2:46:26 PM
Method :
Start Time : 6.72 min End Time : 22.59 min Low Point : 73.01 mV High Point : 182.15 mV
Plot Offset: 73.01 mV Plot Scale: 109.1 mV
Time of Injection: 11/29/04 1:59:30 PM



ample Name : x,ccv,04ws2130,pcb250_50
ileName : G:\gc06\cha\334a004.raw
ate : 11/29/04 2:44:36 PM
lethod : gc06fsa1ul
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 11/29/04 1:59:30 PM
End Time : 27.88 min
Low Point : 66.34 mV
High Point : 237.42 mV
Plot Offset: 66.34 mV
Plot Scale: 171.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2130,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/4
Sample Amount : 1.000000
Cycle : 4

Date : 11/29/04 2:47:30 PM
Data Acquisition Time : 11/29/04 1:59:30 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b004p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.480	922262.77	46.60	1.0000	1	46.60	9.32
Aroclor-1016	9.480	908690.22	262.52	1.0000	1	262.52	52.50
Aroclor-1254	13.693	411180.68	0.41	1.0000	1	0.41	0.08
Aroclor-1260	16.893	1278344.74	252.88	1.0000	1	252.88	50.58
Decachlorobiphenyl	20.653	506359.53	53.74	1.0000	1	53.74	10.75
		4026837.94	616.14			616.14	123.23

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.370	110578.09	255.94	1.0000	1	255.94	51.19
PCB1016#2	8.827	145933.30	247.05	1.0000	1	247.05	49.41
PCB1016#3	9.480	398183.67	261.51	1.0000	1	261.51	52.30
PCB1016#4	9.920	126755.62	301.69	1.0000	1	301.69	60.34
PCB1016#5	10.853	127239.53	256.58	1.0000	1	256.58	51.32
		908690.22	1322.78			1322.78	264.56

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.926	106195.90	129.09	1.0000	1	129.09	25.82
PCB1254#2	12.480	107607.20	97.61	1.0000	1	97.61	19.52
PCB1254#3	13.157	23044.81	32.22	1.0000	1	32.22	6.44
PCB1254#4	13.402	64878.99	52.13	1.0000	1	52.13	10.43
PCB1254#5	13.693	109453.77	392.07	1.0000	1	392.07	78.41
		411180.68	703.12			703.12	140.62

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	248915.87	249.07	1.0000	1	249.07	49.81
PCB1260#2	15.253	335601.51	269.30	1.0000	1	269.30	53.86
PCB1260#3	15.667	164072.00	247.65	1.0000	1	247.65	49.53
PCB1260#4	16.240	178331.28	253.38	1.0000	1	253.38	50.68
PCB1260#5	16.893	351424.07	243.49	1.0000	1	243.49	48.70
		1278344.74	1262.89			1262.89	252.58

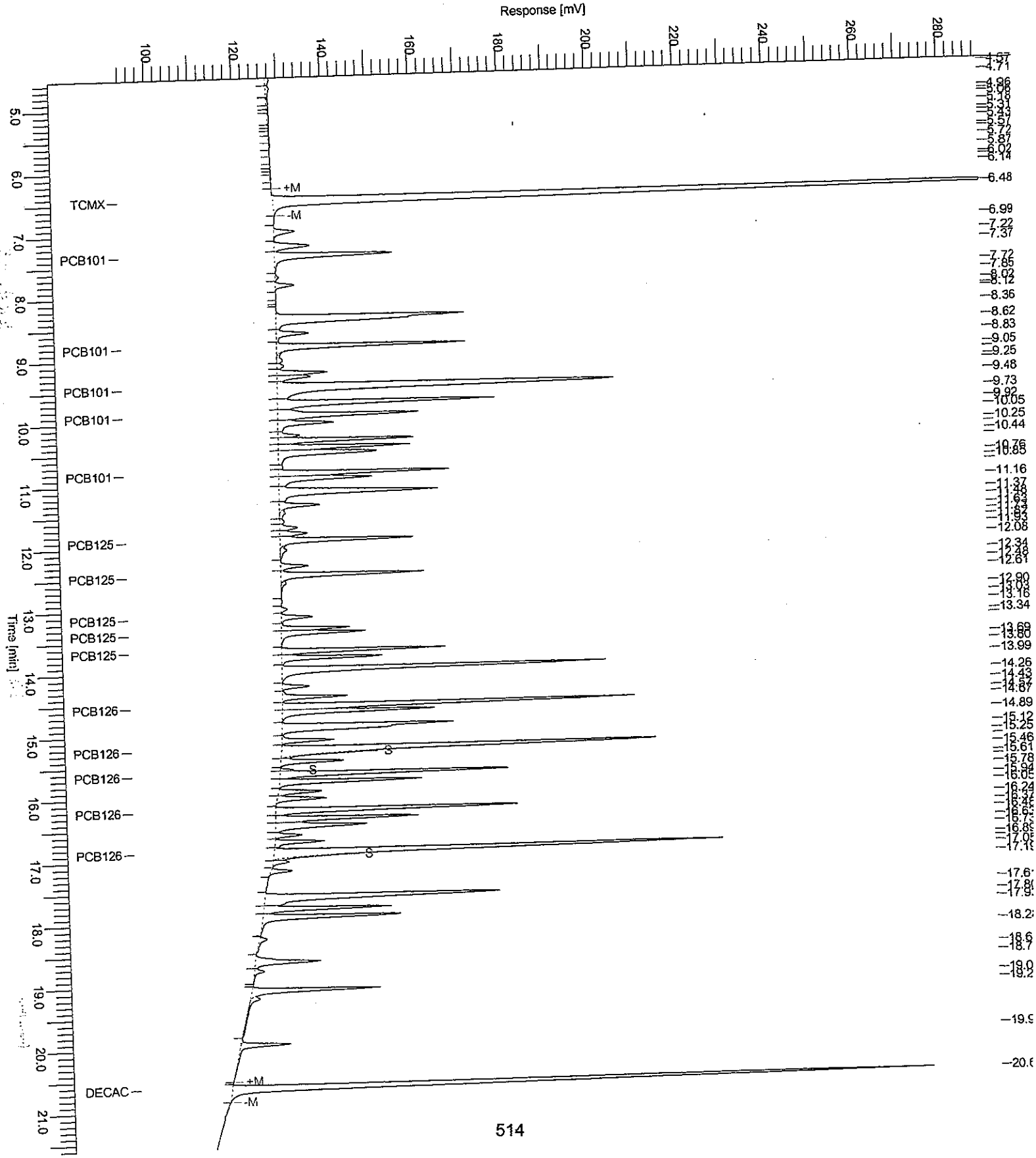
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\334b004p.TX0

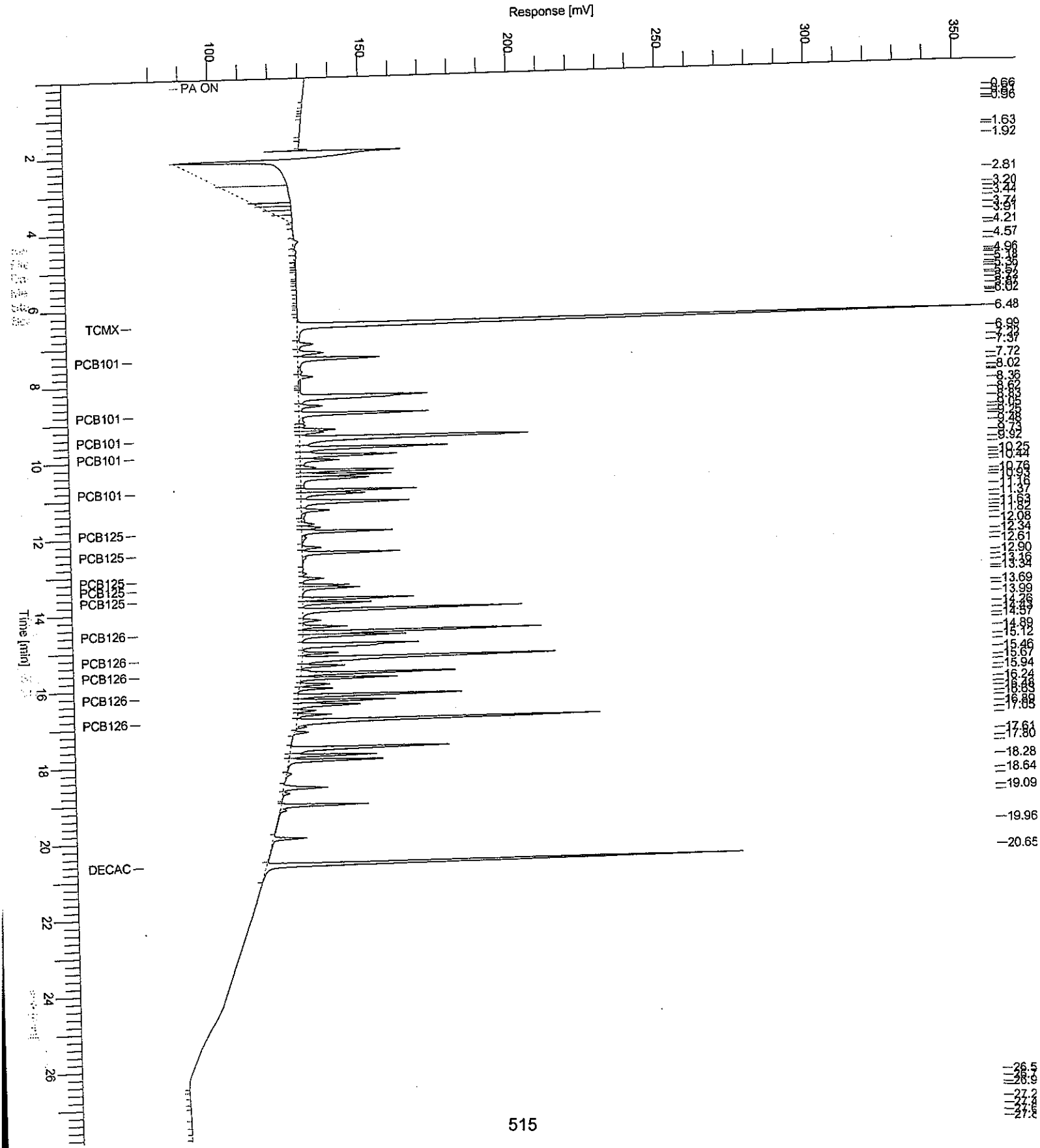
ample Name : x,ccv,04ws2130,pcb250_50
ileName : G:\gc06\chb\334b004.raw
ate : 11/29/04 2:47:35 PM
ethod :
tart Time : 4.53 min
lot Offset: 93.40 mV

Sample #: 250ug/l

Time of Injection: 11/29/04 1:59:30 PM
End Time : 21.63 min
Plot Scale: 195.7 mV
Low Point : 93.40 mV
High Point : 289.06 mV



Sample Name : x,ccv,04ws2130,pcb250_50 Sample #: 250ug/l
FileName : G:\gc06\chb\334b004
Date : 11/29/04 2:44:46 PM Time of Injection: 11/29/04 1:59:30 PM
Method : gc06fsa1ul
Start Time : 0.00 min End Time : 27.88 min Low Point : 72.74 mV High Point : 359.58 mV
Scale Factor: 1.0 Plot Offset: 72.74 mV Plot Scale: 286.8 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766005
Calnum : 204461493001
Standards: 04WS2184

Run Name : ar1254
Filename : 334_005
Caldate : 15-NOV-2004

IDF : 1.0
Injected : 29-NOV-2004 14:49
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	272.3353	pg	9	15	
Aroclor-1254	B			250.0000	265.0249	pg	6	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/5
Sample Amount : 1.000000
Cycle : 5

Date : 11/29/04 3:24:33 PM
Data Acquisition Time : 11/29/04 2:49:08 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\cha\334a005.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	543379.78	48.65	1.0000	1	48.65	9.73
Aroclor-1016	11.867	17528.73	10.90	1.0000	1	10.90	2.18
Aroclor-1254	13.904	638153.50	0.64	1.0000	1	0.64	0.13
Aroclor-1260	16.331	82375.35	35.92	1.0000	1	35.92	7.18
Decachlorobiphenyl	21.667	517680.30	63.57	1.0000	1	63.57	12.71
		1799117.66	159.66			159.66	31.93

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.701	613.03	2.55	1.0000	1	2.55	0.51
PCB1016#2	9.658	3461.32	7.50	1.0000	1	7.50	1.50
PCB1016#3	10.842	2232.03	4.38	1.0000	1	4.38	0.88
PCB1016#4	11.402	769.28	3.34	1.0000	1	3.34	0.67
PCB1016#5	11.867	10453.08	62.96	1.0000	1	62.96	12.59
		17528.73	80.72			80.72	16.14

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.258	97210.29	268.54	1.0000	1	268.54	53.71
PCB1254#2	13.904	179245.23	272.88	1.0000	1	272.88	54.58
PCB1254#3	14.597	106406.81	271.10	1.0000	1	271.10	54.22
PCB1254#4	15.583	124359.84	271.51	1.0000	1	271.51	54.30
PCB1254#5	16.033	130931.34	277.66	1.0000	1	277.66	55.53
		638153.50	1361.68			1361.68	272.34

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.998	14635.39	61.82	1.0000	1	61.82	12.36
PCB1260#2	16.331	34855.98	108.18	1.0000	1	108.18	21.64
PCB1260#3	16.976	5508.69	14.44	1.0000	1	14.44	2.89
PCB1260#4	17.590	8788.32	20.18	1.0000	1	20.18	4.04
PCB1260#5	18.338	18586.98	20.26	1.0000	1	20.26	4.05
		82375.35	224.87			224.87	44.97

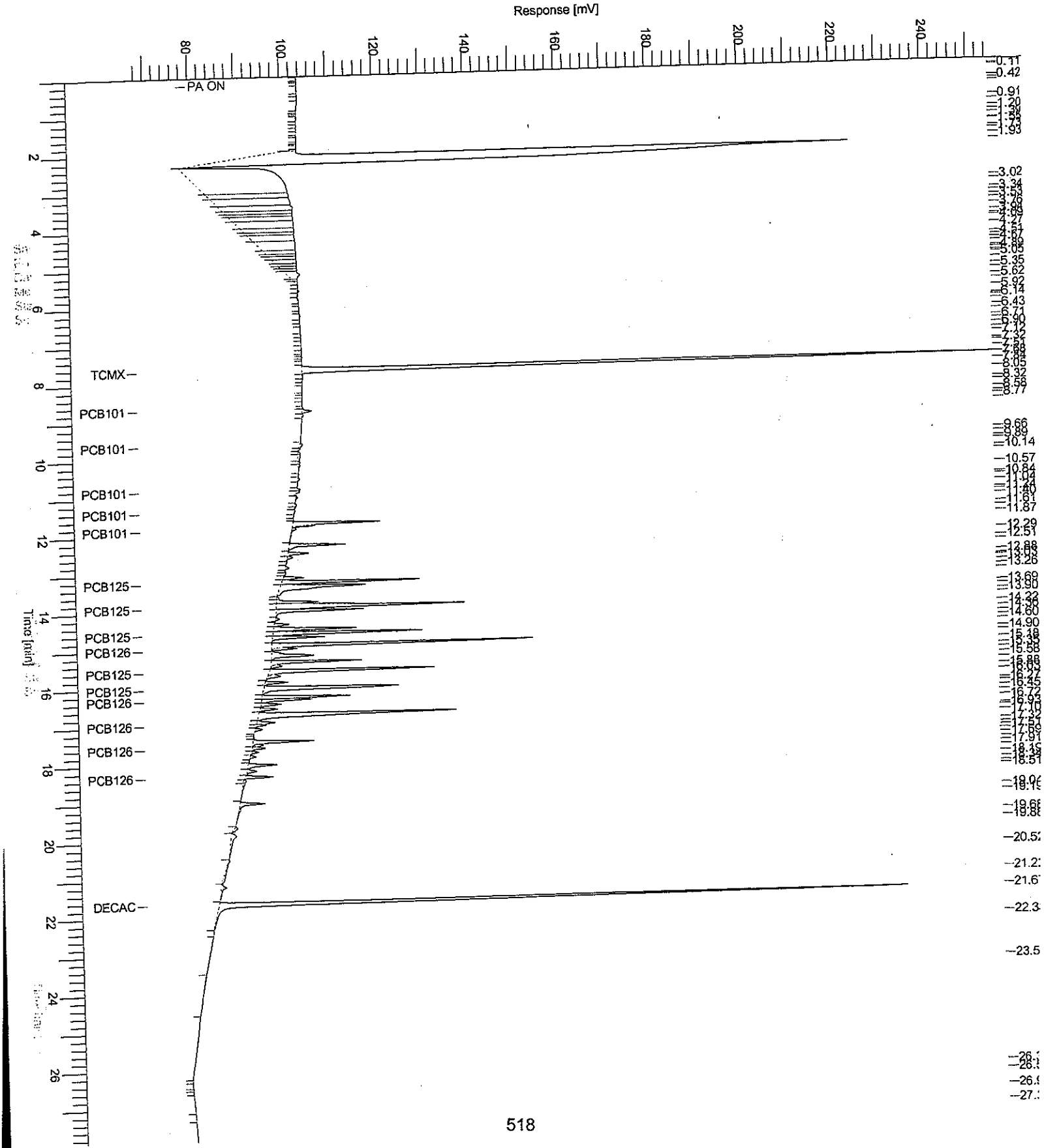
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc06\cha\334a005.TX0

Sample Name : ccv,04ws2184,ar1254
FileName : G:\gc06\cha\334a005.raw
Date : 11/29/04 3:24:36 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 11/29/04 2:49:08 PM
End Time : 27.88 min
Low Point : 67.71 mV
High Point : 254.72 mV
Plot Offset: 67.71 mV
Plot Scale: 187.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/5
Sample Amount : 1.000000
Cycle : 5

Date : 11/29/04 3:25:55 PM
Data Acquisition Time : 11/29/04 2:49:08 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b005p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	963068.77	48.66	1.0000	1	48.66	9.73
Aroclor-1016	10.856	91666.65	26.48	1.0000	1	26.48	5.30
Aroclor-1254	13.413	1111310.24	1.11	1.0000	1	1.11	0.22
Aroclor-1260	15.267	524759.44	103.81	1.0000	1	103.81	20.76
Decachlorobiphenyl	20.653	572596.22	60.77	1.0000	1	60.77	12.15
		3263401.32	240.82			240.82	48.16

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.378	3596.34	8.32	1.0000	1	8.32	1.66
PCB1016#2	8.839	3874.93	6.56	1.0000	1	6.56	1.31
PCB1016#3	9.477	9351.97	6.14	1.0000	1	6.14	1.23
PCB1016#4	9.933	2285.04	5.44	1.0000	1	5.44	1.09
PCB1016#5	10.856	72558.37	146.32	1.0000	1	146.32	29.26
		91666.65	172.78			172.78	34.56

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	212364.98	258.15	1.0000	1	258.15	51.63
PCB1254#2	12.480	287235.26	260.54	1.0000	1	260.54	52.11
PCB1254#3	13.160	188401.85	263.41	1.0000	1	263.41	52.68
PCB1254#4	13.413	350280.62	281.43	1.0000	1	281.43	56.29
PCB1254#5	13.697	73027.53	261.59	1.0000	1	261.59	52.32
		1111310.24	1325.12			1325.12	265.02

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	130096.10	130.18	1.0000	1	130.18	26.04
PCB1260#2	15.267	308039.07	247.18	1.0000	1	247.18	49.44
PCB1260#3	15.665	28375.57	42.83	1.0000	1	42.83	8.57
PCB1260#4	16.241	24177.53	34.35	1.0000	1	34.35	6.87
PCB1260#5	16.896	34071.16	23.61	1.0000	1	23.61	4.72
		524759.44	478.15			478.15	95.63

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\334b005p.TX0

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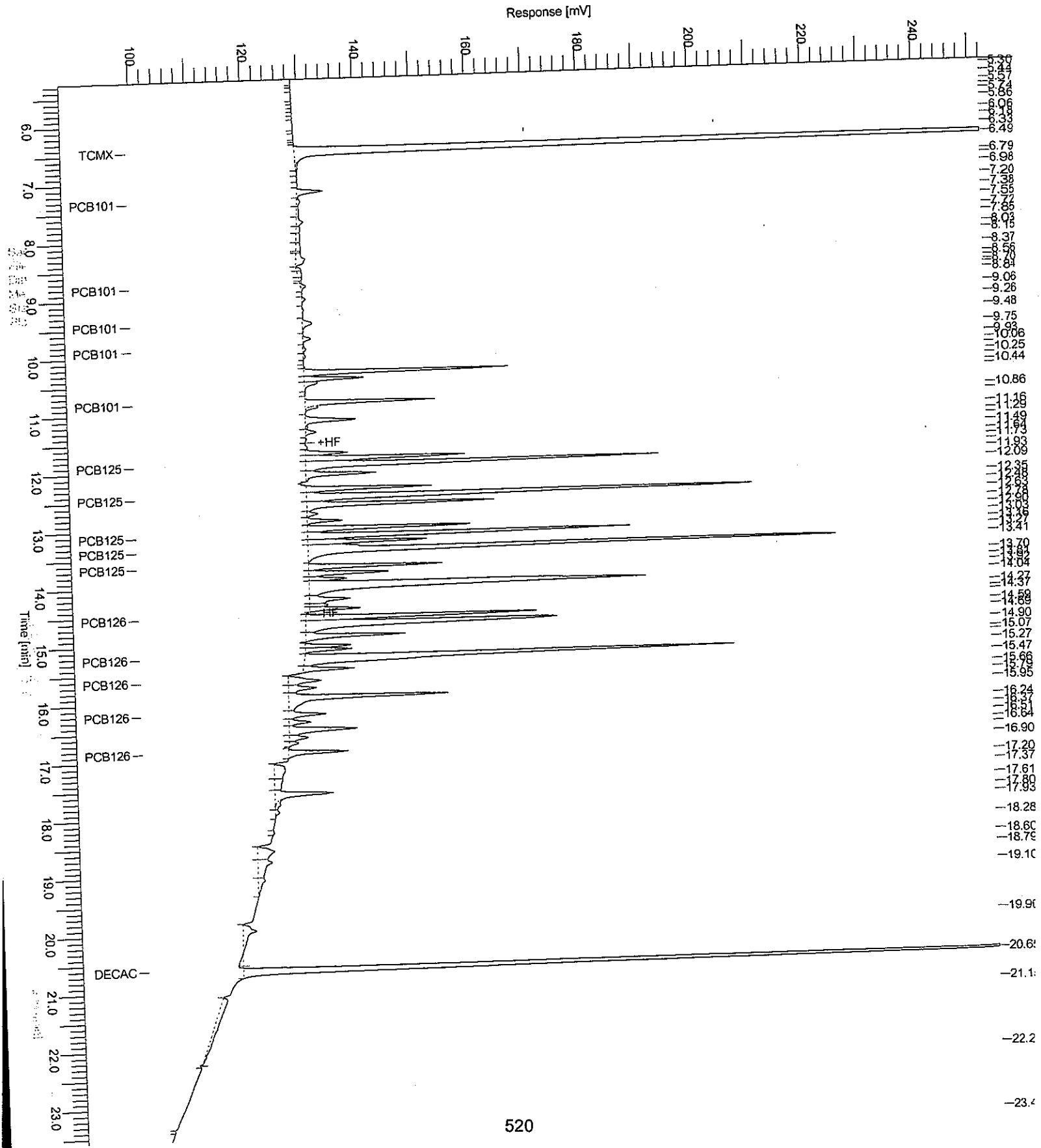
leName : G:\gc06\chb\334b005.raw
ate : 11/29/04 3:26:00 PM
ethod :
tart Time : 5.25 min
lot Offset: 99.30 mV

Sample #: 250ug/l

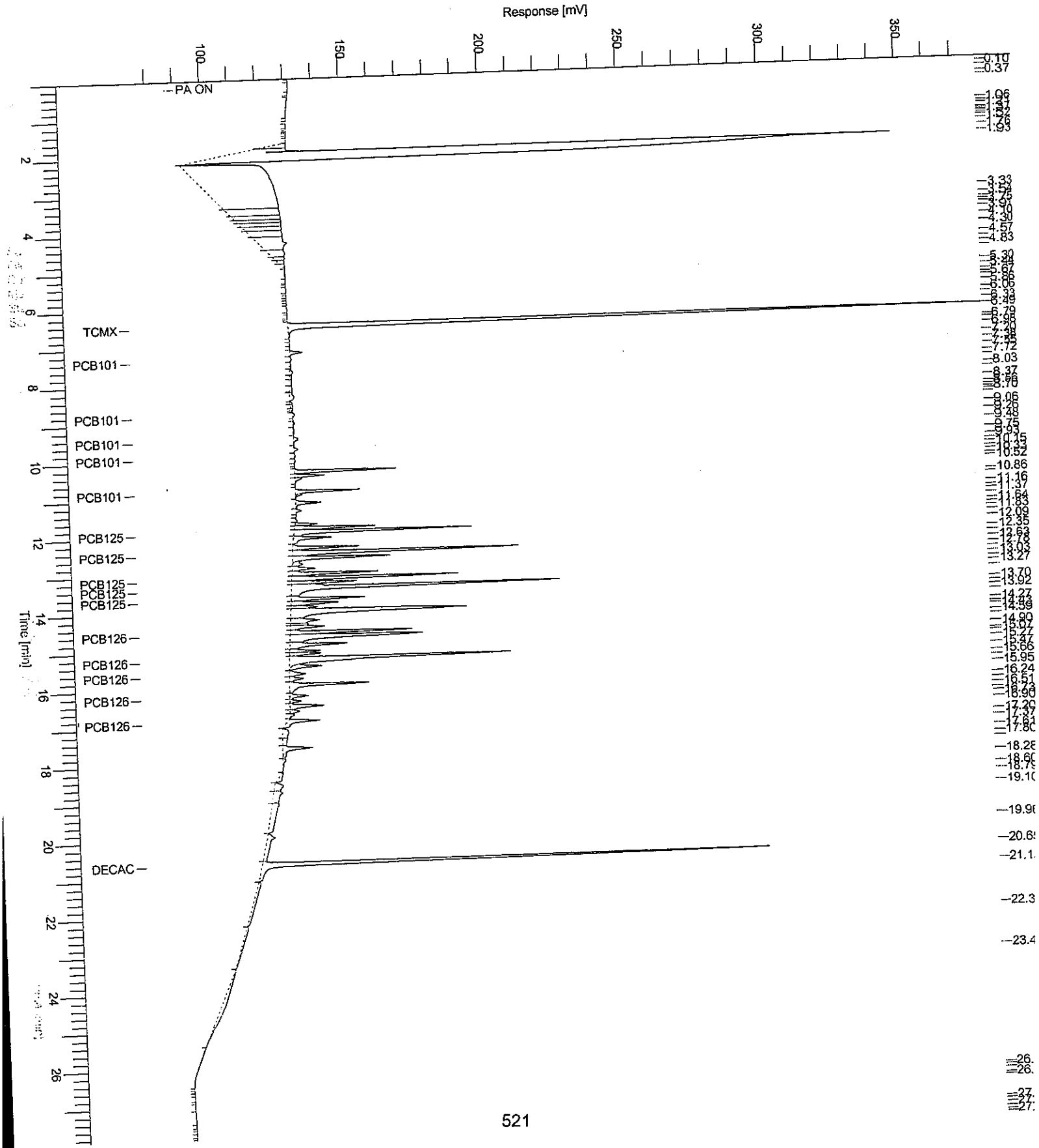
Time of Injection: 11/29/04 2:49:08 PM
End Time : 23.57 min
Low Point : 99.30 mV
High Point : 252.07 mV
Plot Scale: 152.8 mV



ample Name : ccv,04ws2184,ar1254
leName : G:\gc06\chb\334b005
ate : 11/29/04 3:24:41 PM
ethod : gc06fsa1ul
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 11/29/04 2:49:08 PM
End Time : 27.88 min
Low Point : 72.04 mV
High Point : 379.36 mV
Plot Offset: 72.04 mV
Plot Scale: 307.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766018
Calnum : 204456284001
Standards: 04WS2064

Run Name : pcb500_100
Filename : 334_018
Caldate : 11-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 01:05
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	439.6275	pg	-12	15	
Aroclor-1260	A			500.0000	434.2495	pg	-13	15	
TCMX	A	11170	9302.0	100.0000	83.27700	pg	-17	15	c-
Decachlorobiphenyl	A	8143.9	7103.3	100.0000	87.22294	pg	-13	15	
Aroclor-1016	B			500.0000	459.6873	pg	-8	15	
Aroclor-1260	B			500.0000	429.7735	pg	-14	15	
TCMX	B	19793	15940	100.0000	80.53680	pg	-19	15	c-
Decachlorobiphenyl	B	9422.9	8239.9	100.0000	87.44588	pg	-13	15	

-=low bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2064,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 11/30/04 11:33:15 AM
Data Acquisition Time : 11/30/04 1:05:25 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a018p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.667	930196.11	83.28	1.0000	1	83.28	16.66
Aroclor-1016	10.880	701314.51	435.99	1.0000	1	435.99	87.20
Aroclor-1254	16.013	610480.60	0.61	1.0000	1	0.61	0.12
Aroclor-1260	18.333	985298.50	429.59	1.0000	1	429.59	85.92
Decachlorobiphenyl	21.667	710332.85	87.22	1.0000	1	87.22	17.44
		3937622.58	1036.69			1036.69	207.34

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.685	105616.01	438.97	1.0000	1	438.97	87.79
PCB1016#2	9.648	189461.21	410.68	1.0000	1	410.68	82.14
PCB1016#3	10.880	227636.77	446.31	1.0000	1	446.31	89.26
PCB1016#4	11.396	102945.54	446.49	1.0000	1	446.49	89.30
PCB1016#5	11.864	75654.99	455.69	1.0000	1	455.69	91.14
		701314.51	2198.14			2198.14	439.63

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.250	78466.22	216.76	1.0000	1	216.76	43.35
PCB1254#2	13.895	105974.35	161.33	1.0000	1	161.33	32.27
PCB1254#3	14.573	58285.94	148.50	1.0000	1	148.50	29.70
PCB1254#4	15.581	31671.77	69.15	1.0000	1	69.15	13.83
PCB1254#5	16.013	336082.32	712.70	1.0000	1	712.70	142.54
		610480.60	1308.44			1308.44	261.69

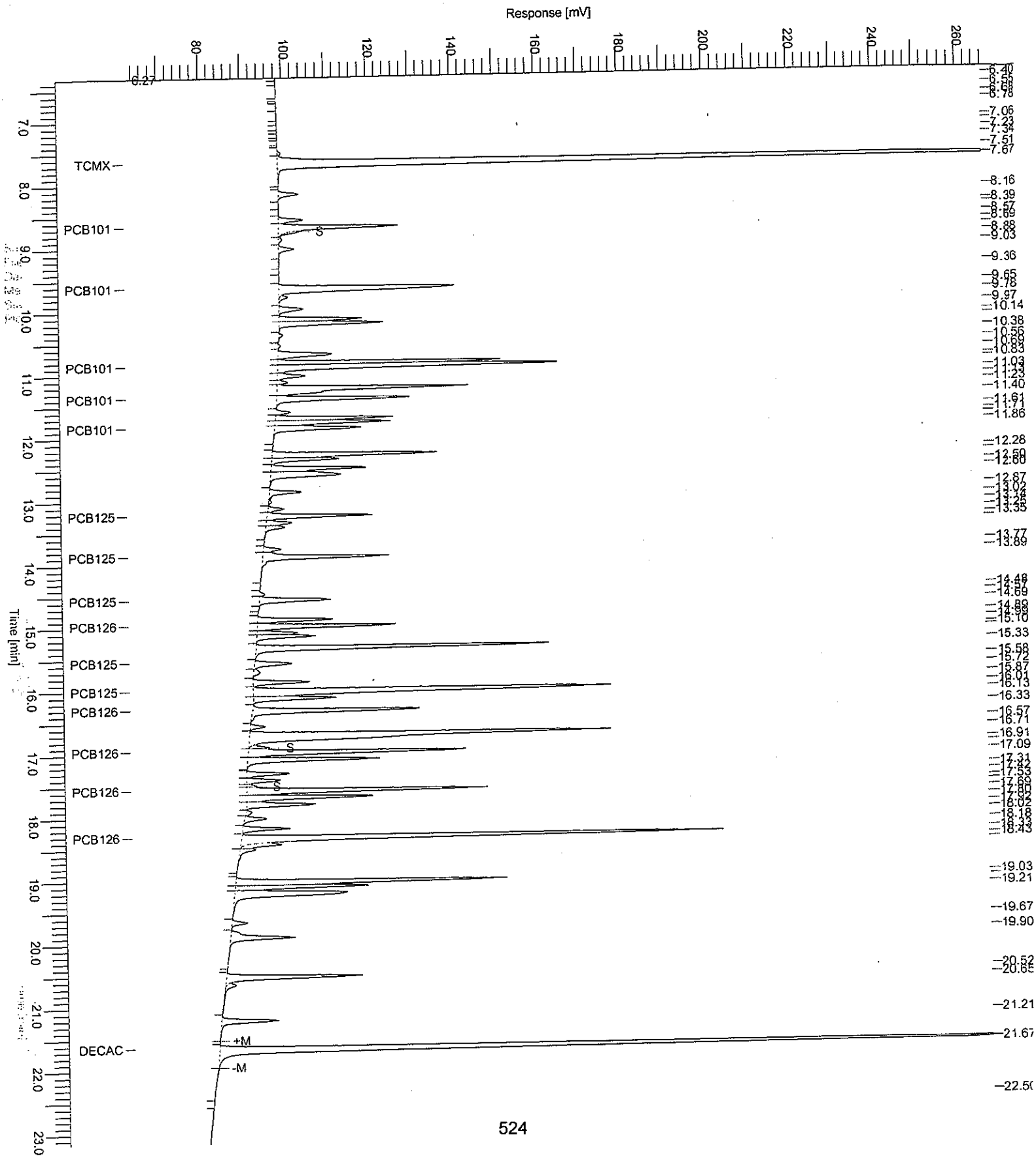
Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.991	105018.64	443.60	1.0000	1	443.60	88.72
PCB1260#2	16.325	138859.21	430.97	1.0000	1	430.97	86.19
PCB1260#3	16.978	173476.80	454.65	1.0000	1	454.65	90.93
PCB1260#4	17.586	184933.35	424.57	1.0000	1	424.57	84.91
PCB1260#5	18.333	383010.50	417.45	1.0000	1	417.45	83.49
		985298.50	2171.25			2171.25	434.25

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a018p.TX0

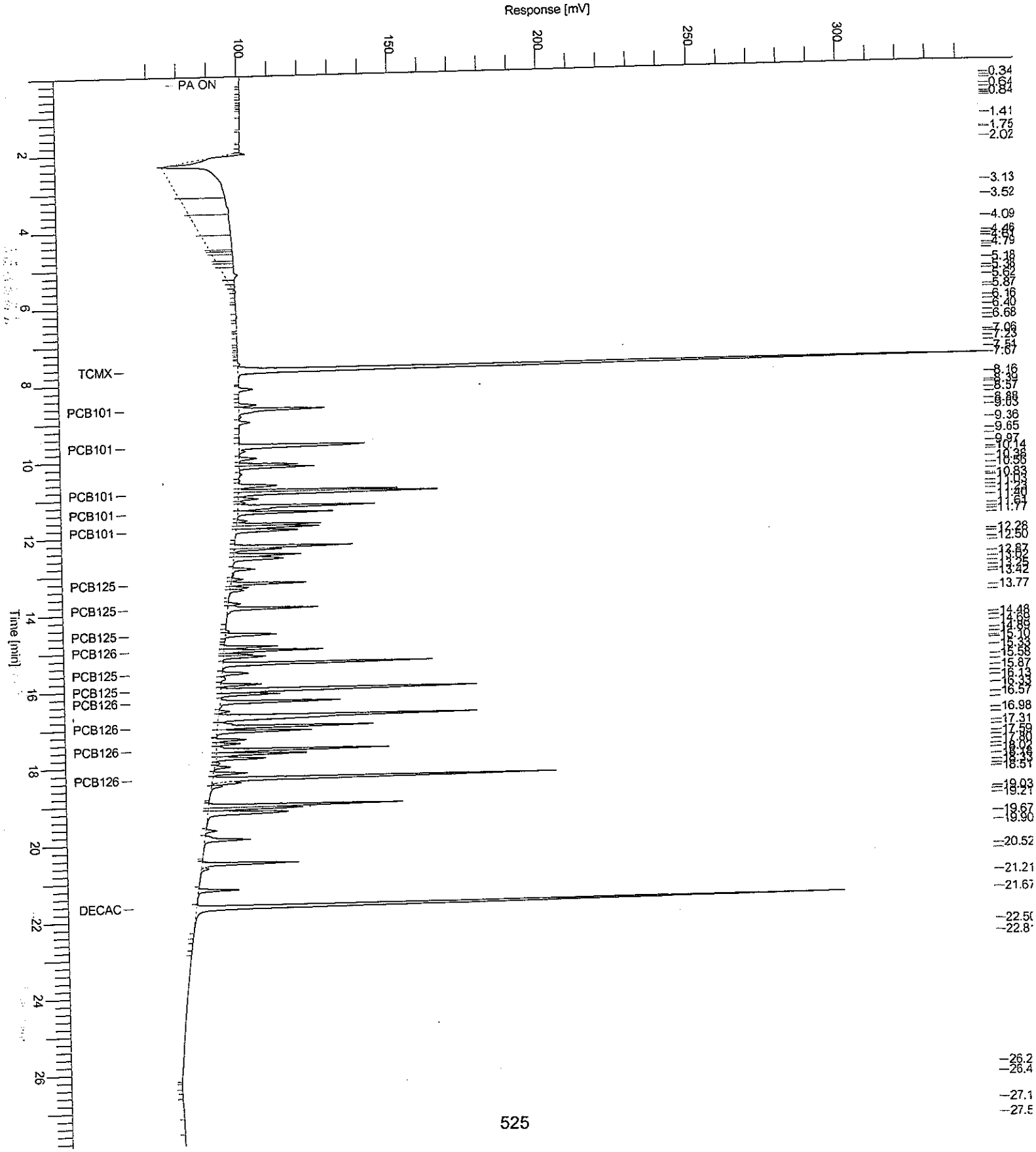
Sample Name : ccv,04ws2064,pcb500_100 Sample #: 500ug/l Page 1 of 1
FileName : G:\gc06\cha\334a018.raw
Date : 11/30/04 11:33:20 AM
Method :
Time of Injection: 11/30/04 1:05:25 AM
Start Time : 6.32 min End Time : 23.16 min Low Point : 62.06 mV High Point : 266.23 mV
Plot Offset: 62.06 mV Plot Scale: 204.2 mV



Sample Name : ccv,04ws2064,pcb500_100
FileName : G:\gc06\cha\334a018.raw
Date : 11/30/04 11:30:04 AM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 500ug/l

Time of Injection: 11/30/04 1:05:25 AM
End Time : 27.88 min
Low Point : 61.18 mV
High Point : 347.77 mV
Plot Offset: 61.18 mV
Plot Scale: 286.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2064,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/18
Sample Amount : 1.000000
Cycle : 18

Date : 11/30/04 11:34:01 AM
Data Acquisition Time : 11/30/04 1:05:25 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b018p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	1594040.91	80.54	1.0000	1	80.54	16.11
Aroclor-1016	9.480	1571146.96	453.90	1.0000	1	453.90	90.78
Aroclor-1254	13.693	709172.41	0.71	1.0000	1	0.71	0.14
Aroclor-1260	16.893	2184129.04	432.06	1.0000	1	432.06	86.41
Decachlorobiphenyl	20.653	823989.48	87.45	1.0000	1	87.45	17.49
		6882478.81	1054.65			1054.65	210.93

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.373	195956.78	453.56	1.0000	1	453.56	90.71
PCB1016#2	8.827	252684.96	427.77	1.0000	1	427.77	85.55
PCB1016#3	9.480	682096.25	447.97	1.0000	1	447.97	89.59
PCB1016#4	9.920	222882.21	530.49	1.0000	1	530.49	106.10
PCB1016#5	10.853	217526.76	438.65	1.0000	1	438.65	87.73
		1571146.96	2298.44			2298.44	459.69

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	181599.35	220.75	1.0000	1	220.75	44.15
PCB1254#2	12.480	183341.82	166.30	1.0000	1	166.30	33.26
PCB1254#3	13.159	42401.57	59.28	1.0000	1	59.28	11.86
PCB1254#4	13.400	114756.25	92.20	1.0000	1	92.20	18.44
PCB1254#5	13.693	187073.42	670.11	1.0000	1	670.11	134.02
		709172.41	1208.65			1208.65	241.73

Group Report For : Aroclor-1260

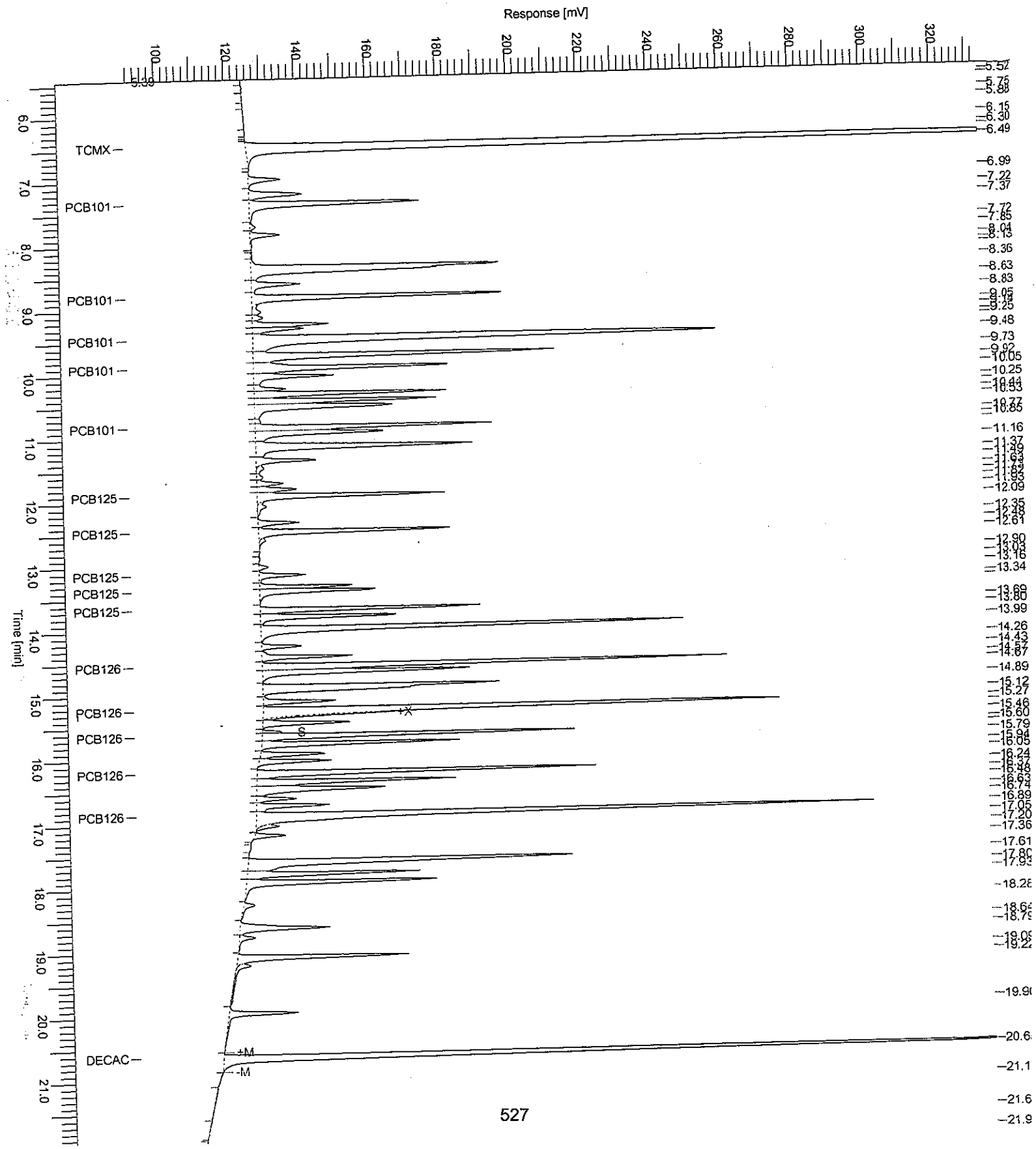
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	416809.53	417.07	1.0000	1	417.07	83.41
PCB1260#2	15.267	557679.24	447.50	1.0000	1	447.50	89.50
PCB1260#3	15.667	276291.63	417.04	1.0000	1	417.04	83.41
PCB1260#4	16.240	302998.56	430.50	1.0000	1	430.50	86.10
PCB1260#5	16.893	630350.08	436.76	1.0000	1	436.76	87.35
		2184129.04	2148.87			2148.87	429.77

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\334b018p.TX0

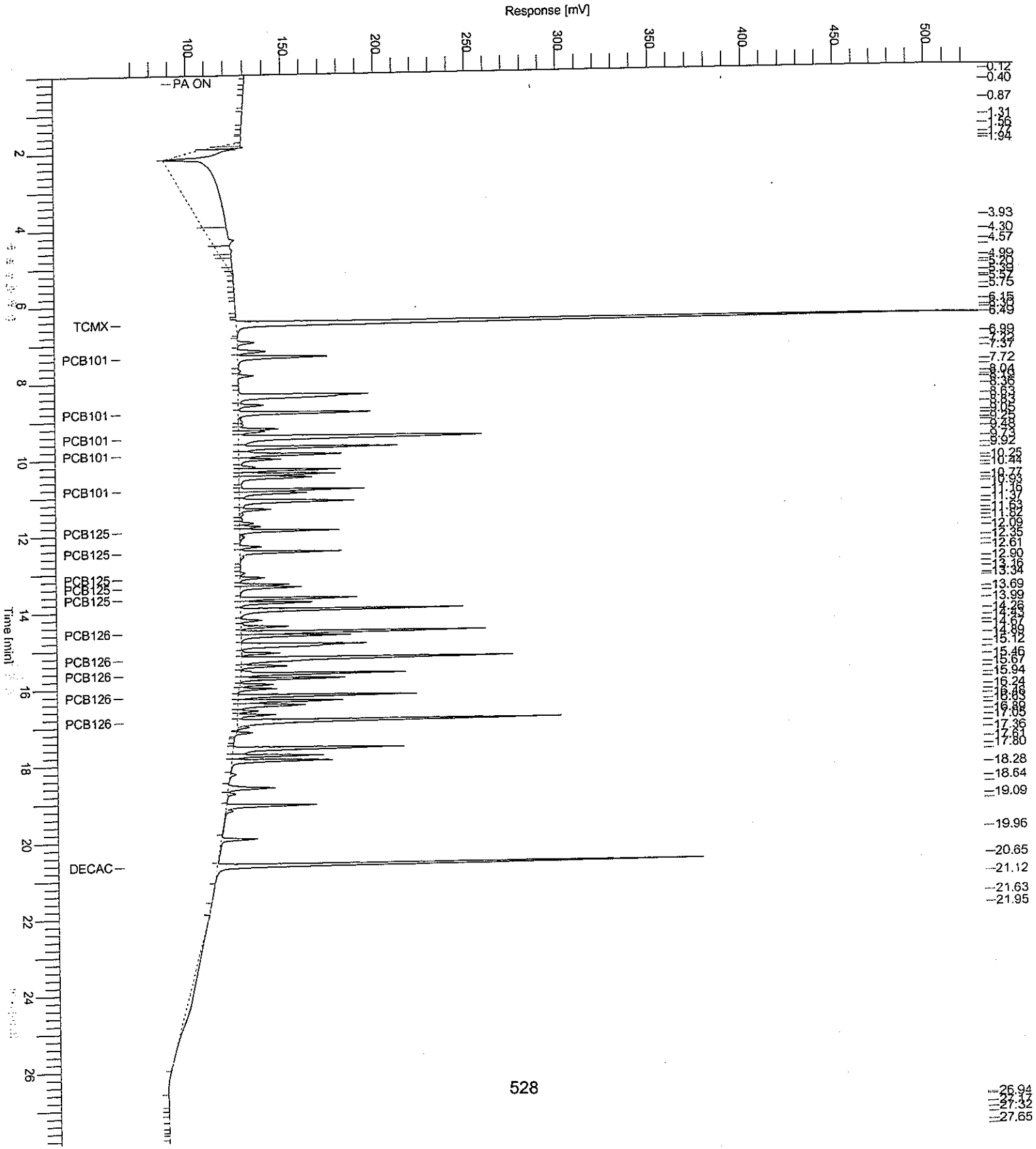
Sample Name : ccv,04ws2064,pcb500_100 Sample #: 500ug/l Page 1 of 1
FileName : G:\gc06\chb\334b018.raw
Date : 11/30/04 11:34:06 AM
Method :
Start Time : 5.44 min End Time : 21.96 min Low Point : 91.07 mV High Point : 333.73 mV
Plot Offset: 91.07 mV Plot Scale: 242.7 mV

Time of Injection: 11/30/04 1:05:25 AM



GC 06 Rtx-5

mple Name : ccv,04ws2064,pcb500_100 Sample #: 500ug/l Page 1 of 1
eName : G:\gc06\chb\334b018
ite : 11/30/04 11:30:27 AM Time of Injection: 11/30/04 1:05:25 AM
ethod : gc06fsa1ul
art Time : 0.00 min End Time : 27.88 min Low Point : 63.99 mV High Point : 528.88 mV
cale Factor: 1.0 Plot Offset: 63.99 mV Plot Scale: 464.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766021
Calnum : 204461493001
Standards: 04WS2184

Run Name : ar1254
Filename : 334_021
Caldate : 15-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 02:44
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	232.2229	pg	-7	15	
Aroclor-1254	B			250.0000	239.7401	pg	-4	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 11/30/04 11:30:18 AM
Data Acquisition Time : 11/30/04 2:44:56 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\cha\334a021.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.667	489812.65	43.85	1.0000	1	43.85	8.77
Aroclor-1016	11.854	7972.68	4.96	1.0000	1	4.96	0.99
Aroclor-1254	13.892	543623.96	0.54	1.0000	1	0.54	0.11
Aroclor-1260	16.320	87784.90	38.27	1.0000	1	38.27	7.65
Decachlorobiphenyl	21.667	457921.21	56.23	1.0000	1	56.23	11.25
		1587115.39	143.85			143.85	28.77

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.688	618.45	2.57	1.0000	1	2.57	0.51
PCB1016#2	9.649	2227.10	4.83	1.0000	1	4.83	0.97
PCB1016#3	10.830	1069.11	2.10	1.0000	1	2.10	0.42
PCB1016#4	11.390	666.80	2.89	1.0000	1	2.89	0.58
PCB1016#5	11.854	3391.22	20.43	1.0000	1	20.43	4.09
		7972.68	32.81			32.81	6.56

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.249	84133.45	232.42	1.0000	1	232.42	46.48
PCB1254#2	13.892	152494.60	232.15	1.0000	1	232.15	46.43
PCB1254#3	14.586	91314.41	232.65	1.0000	1	232.65	46.53
PCB1254#4	15.573	104159.69	227.40	1.0000	1	227.40	45.48
PCB1254#5	16.024	111521.81	236.50	1.0000	1	236.50	47.30
		543623.96	1161.11			1161.11	232.22

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.987	13625.71	57.56	1.0000	1	57.56	11.51
PCB1260#2	16.320	30500.34	94.66	1.0000	1	94.66	18.93
PCB1260#3	16.916	18725.53	49.08	1.0000	1	49.08	9.82
PCB1260#4	17.584	7444.14	17.09	1.0000	1	17.09	3.42
PCB1260#5	18.333	17489.18	19.06	1.0000	1	19.06	3.81
		87784.90	237.45			237.45	47.49

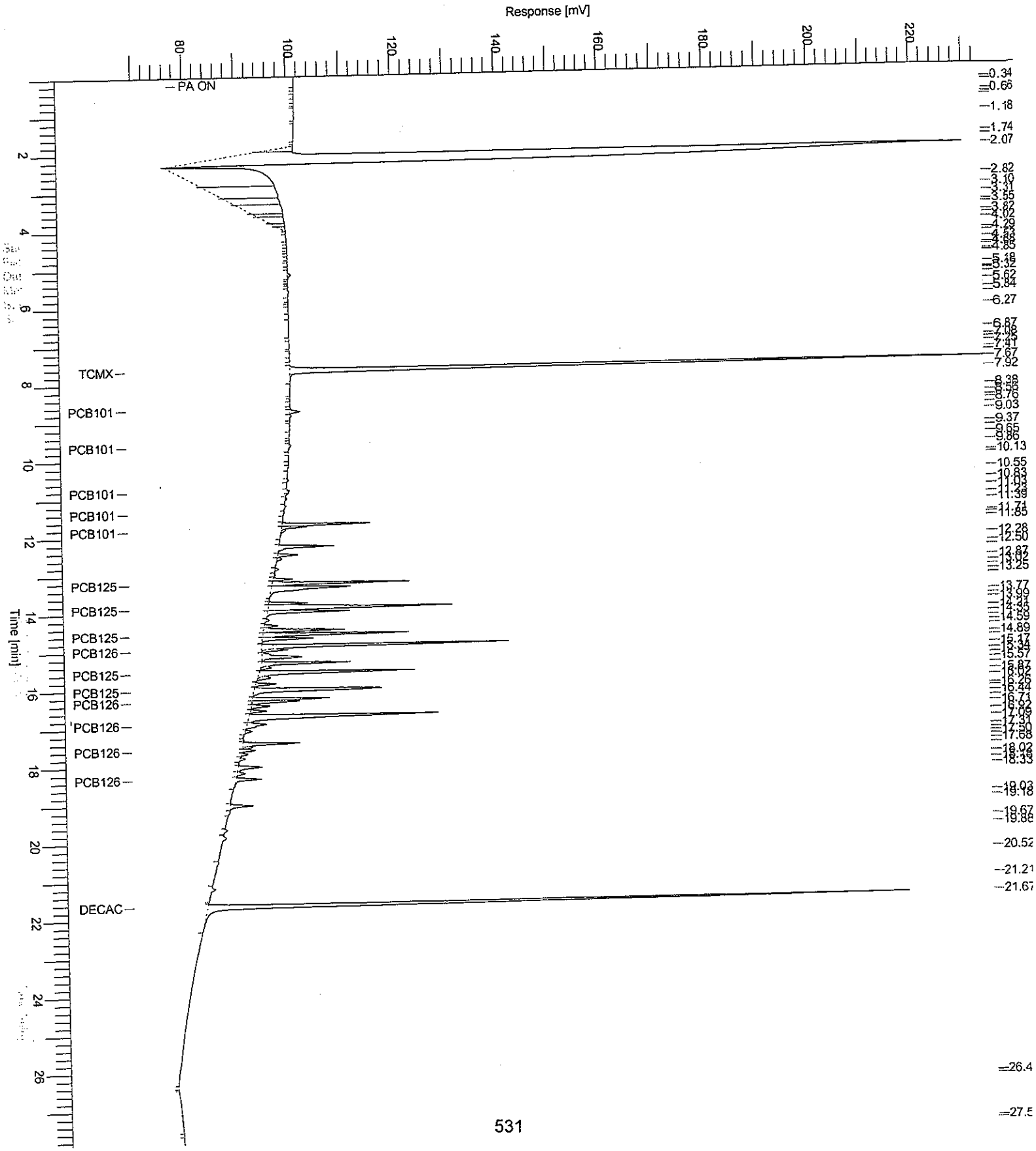
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc06\cha\334a021.TX0

Sample Name : x,ccv,04ws2184,ar1254
FileName : G:\gc06\cha\334a021.raw
Date : 11/30/04 11:30:21 AM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 11/30/04 2:44:56 AM
End Time : 27.88 min
Low Point : 68.25 mV
High Point : 233.67 mV
Plot Offset: 68.25 mV
Plot Scale: 165.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/21
Sample Amount : 1.000000
Cycle : 21

Date : 11/30/04 11:30:41 AM
Data Acquisition Time : 11/30/04 2:44:56 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\chb\334b021.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	890093.30	44.97	1.0000	1	44.97	8.99
Aroclor-1016	10.854	72113.75	20.83	1.0000	1	20.83	4.17
Aroclor-1254	13.400	1003014.55	1.00	1.0000	1	1.00	0.20
Aroclor-1260	15.267	440768.83	87.19	1.0000	1	87.19	17.44
Decachlorobiphenyl	20.653	549757.43	58.34	1.0000	1	58.34	11.67
		2955747.87	212.34			212.34	42.47

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.372	1319.50	3.05	1.0000	1	3.05	0.61
PCB1016#2	8.833	2593.32	4.39	1.0000	1	4.39	0.88
PCB1016#3	9.477	8759.81	5.75	1.0000	1	5.75	1.15
PCB1016#4	9.932	2730.44	6.50	1.0000	1	6.50	1.30
PCB1016#5	10.854	56710.68	114.36	1.0000	1	114.36	22.87
		72113.75	134.06			134.06	26.81

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	192778.56	234.34	1.0000	1	234.34	46.87
PCB1254#2	12.480	257681.17	233.73	1.0000	1	233.73	46.75
PCB1254#3	13.160	167271.50	233.87	1.0000	1	233.87	46.77
PCB1254#4	13.400	317910.85	255.42	1.0000	1	255.42	51.08
PCB1254#5	13.694	67372.47	241.33	1.0000	1	241.33	48.27
		1003014.55	1198.70			1198.70	239.74

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	112099.42	112.17	1.0000	1	112.17	22.43
PCB1260#2	15.267	272011.42	218.27	1.0000	1	218.27	43.65
PCB1260#3	15.662	12220.28	18.45	1.0000	1	18.45	3.69
PCB1260#4	16.238	14935.40	21.22	1.0000	1	21.22	4.24
PCB1260#5	16.894	29502.31	20.44	1.0000	1	20.44	4.09
		440768.83	390.55			390.55	78.11

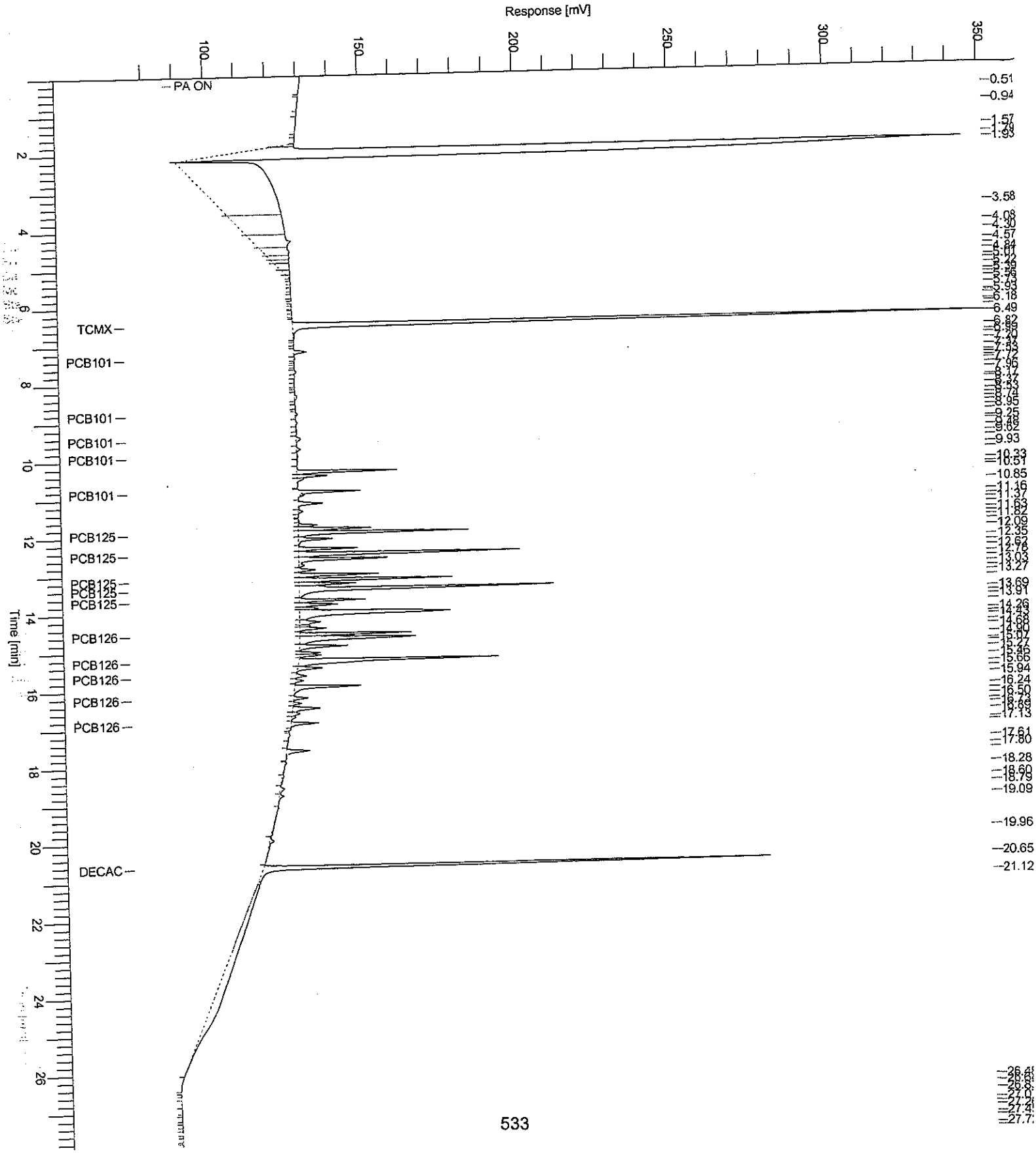
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc06\chb\334b021.TX0

Sample Name : x,ccv,04ws2184,ar1254
FileName : G:\gc06\chb\334b021
Date : 11/30/04 11:30:43 AM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 11/30/04 2:44:56 AM
End Time : 27.88 min
Low Point : 73.47 mV
High Point : 351.59 mV
Plot Offset: 73.47 mV
Plot Scale: 278.1 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766034
Calnum : 204456284001
Standards: 04WS2130

Run Name : pcb250_50
Filename : 334_034
Caldate : 11-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 09:56
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	226.0879	pg	-10	15	
Aroclor-1260	A			250.0000	216.4214	pg	-13	15	
TCMX	A	11170	10674	50.00000	47.78101	pg	-4	15	
Decachlorobiphenyl	A	8143.9	6981.7	50.00000	42.86467	pg	-14	15	
Aroclor-1016	B			250.0000	270.3481	pg	8	15	
Aroclor-1260	B			250.0000	222.6904	pg	-11	15	
TCMX	B	19793	19345	50.00000	48.86802	pg	-2	15	
Decachlorobiphenyl	B	9422.9	8074.9	50.00000	42.84717	pg	-14	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/34
Sample Amount : 1.000000
Cycle : 34

Date : 11/30/04 12:25:18 PM
Data Acquisition Time : 11/30/04 9:56:06 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a034p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	533709.32	47.78	1.0000	1	47.78	9.56
Aroclor-1016	10.844	346838.97	215.62	1.0000	1	215.62	43.12
Aroclor-1254	16.024	326035.01	0.33	1.0000	1	0.33	0.07
Aroclor-1260	18.339	486347.74	212.05	1.0000	1	212.05	42.41
Decachlorobiphenyl	21.667	349084.56	42.86	1.0000	1	42.86	8.57
		2042015.60	518.64			518.64	103.73

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.691	59224.29	246.15	1.0000	1	246.15	49.23
PCB1016#2	9.654	109148.67	236.59	1.0000	1	236.59	47.32
PCB1016#3	10.844	82274.00	161.31	1.0000	1	161.31	32.26
PCB1016#4	11.400	55158.47	239.23	1.0000	1	239.23	47.85
PCB1016#5	11.868	41033.55	247.15	1.0000	1	247.15	49.43
		346838.97	1130.44			1130.44	226.09

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.253	43046.41	118.91	1.0000	1	118.91	23.78
PCB1254#2	13.898	62049.60	94.46	1.0000	1	94.46	18.89
PCB1254#3	14.577	31589.01	80.48	1.0000	1	80.48	16.10
PCB1254#4	15.587	14882.80	32.49	1.0000	1	32.49	6.50
PCB1254#5	16.024	174467.19	369.98	1.0000	1	369.98	74.00
		326035.01	696.33			696.33	139.27

Group Report For : Aroclor-1260

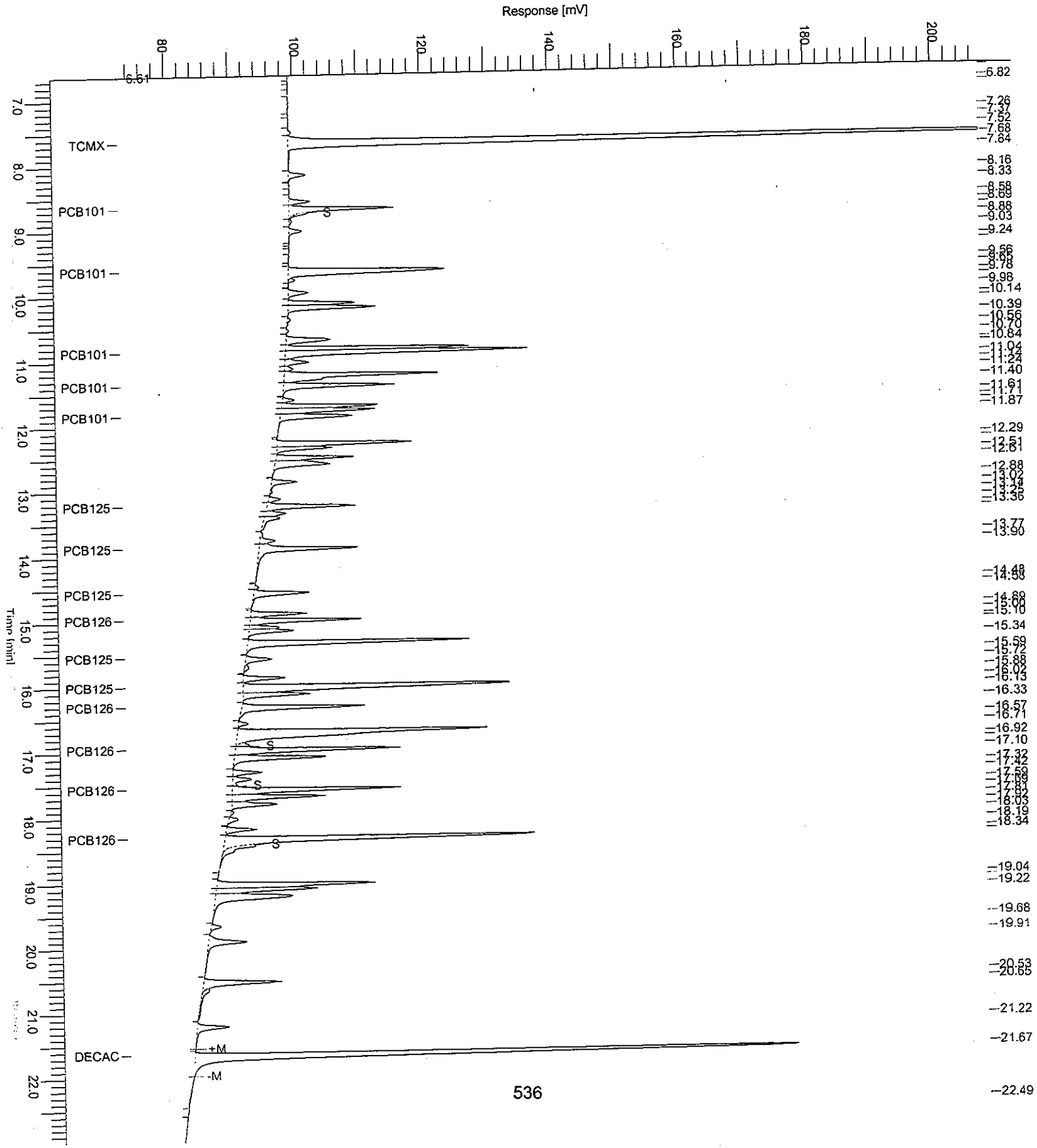
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.997	55396.01	234.00	1.0000	1	234.00	46.80
PCB1260#2	16.331	67938.91	210.86	1.0000	1	210.86	42.17
PCB1260#3	16.985	87166.80	228.45	1.0000	1	228.45	45.69
PCB1260#4	17.590	89688.87	205.91	1.0000	1	205.91	41.18
PCB1260#5	18.339	186157.16	202.90	1.0000	1	202.90	40.58
		486347.74	1082.11			1082.11	216.42

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a034p.TX0

GC 06 Rtx-CLPesticides

nple Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\cha\334a034.raw
e : 11/30/04 12:25:23 PM Time of Injection: 11/30/04 9:56:06 AM
hod :
rt Time : 6.64 min End Time : 23.00 min Low Point : 72.67 mV High Point : 207.27 mV
t Offset: 72.67 mV Plot Scale: 134.6 mV



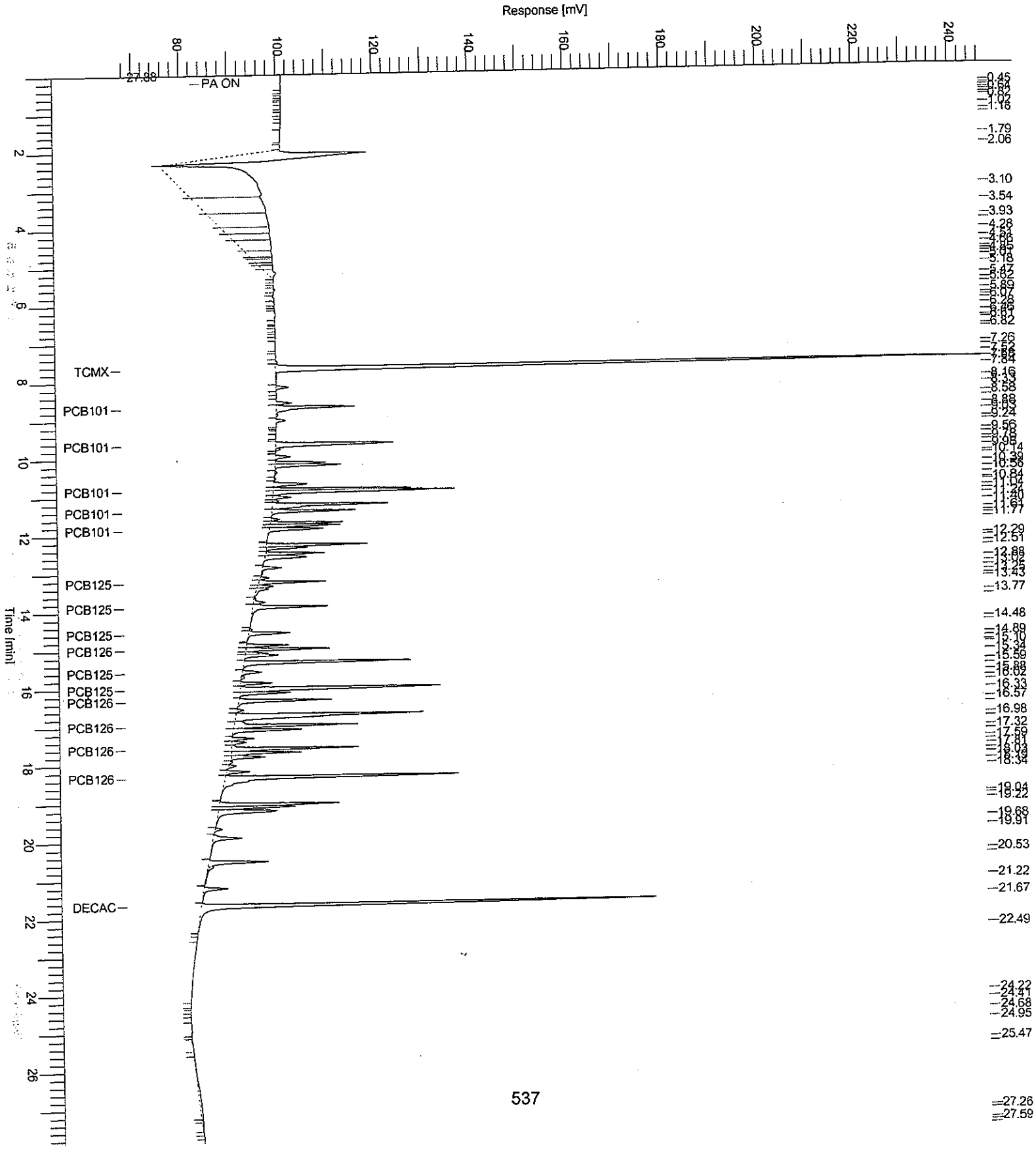
GC 06 Rtx-CLPesticides

mple Name : ccv,04ws2130,pcb250_50
eName : G:\gc06\cha\334a034.raw
te : 11/30/04 12:21:55 PM
thod : gc06fsa1ul
rt Time : 0.00 min
ale Factor: 1.0

Sample #: 250ug/l

Page 1 of 1

Time of Injection: 11/30/04 9:56:06 AM
End Time : 27.88 min
Low Point : 67.20 mV
High Point : 246.37 mV
Plot Offset: 67.20 mV
Plot Scale: 179.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/34
Sample Amount : 1.000000
Cycle : 34

Date : 11/30/04 12:26:24 PM
Data Acquisition Time : 11/30/04 9:56:06 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b034p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	967230.20	48.87	1.0000	1	48.87	9.77
Aroclor-1016	9.493	927447.59	267.94	1.0000	1	267.94	53.59
Aroclor-1254	13.707	399232.51	0.40	1.0000	1	0.40	0.08
Aroclor-1260	16.907	1127194.38	222.98	1.0000	1	222.98	44.60
Decachlorobiphenyl	20.667	403742.50	42.85	1.0000	1	42.85	8.57
		3824847.19	583.03			583.03	116.61

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.373	110140.51	254.93	1.0000	1	254.93	50.99
PCB1016#2	8.840	151856.60	257.08	1.0000	1	257.08	51.42
PCB1016#3	9.493	404083.24	265.39	1.0000	1	265.39	53.08
PCB1016#4	9.933	130073.39	309.59	1.0000	1	309.59	61.92
PCB1016#5	10.853	131293.85	264.76	1.0000	1	264.76	52.95
		927447.59	1351.74			1351.74	270.35

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	110452.80	134.27	1.0000	1	134.27	26.85
PCB1254#2	12.493	106924.67	96.99	1.0000	1	96.99	19.40
PCB1254#3	13.165	20867.92	29.18	1.0000	1	29.18	5.84
PCB1254#4	13.412	59345.32	47.68	1.0000	1	47.68	9.54
PCB1254#5	13.707	101641.79	364.09	1.0000	1	364.09	72.82
		399232.51	672.20			672.20	134.44

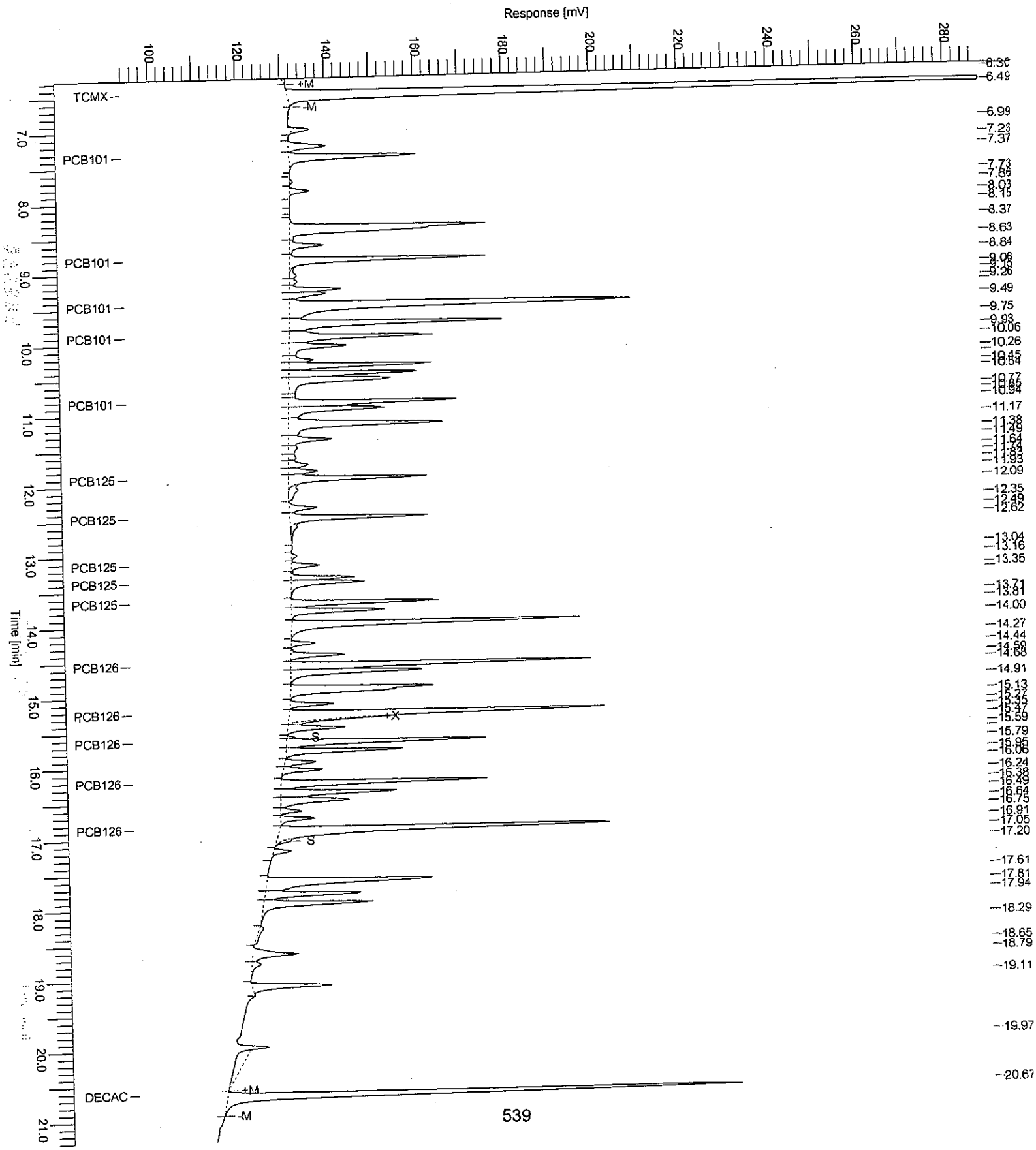
Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	224421.04	224.56	1.0000	1	224.56	44.91
PCB1260#2	15.267	290812.53	233.36	1.0000	1	233.36	46.67
PCB1260#3	15.667	145592.79	219.76	1.0000	1	219.76	43.95
PCB1260#4	16.240	154736.14	219.85	1.0000	1	219.85	43.97
PCB1260#5	16.907	311631.89	215.92	1.0000	1	215.92	43.18
		1127194.38	1113.45			1113.45	222.69

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\chb\334b034p.TX0

Sample Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\chb\334b034.raw
Date : 11/30/04 12:26:29 PM Time of Injection: 11/30/04 9:56:06 AM
Method :
Start Time : 6.27 min End Time : 21.31 min Low Point : 93.99 mV High Point : 287.86 mV
Plot Offset: 93.99 mV Plot Scale: 193.9 mV



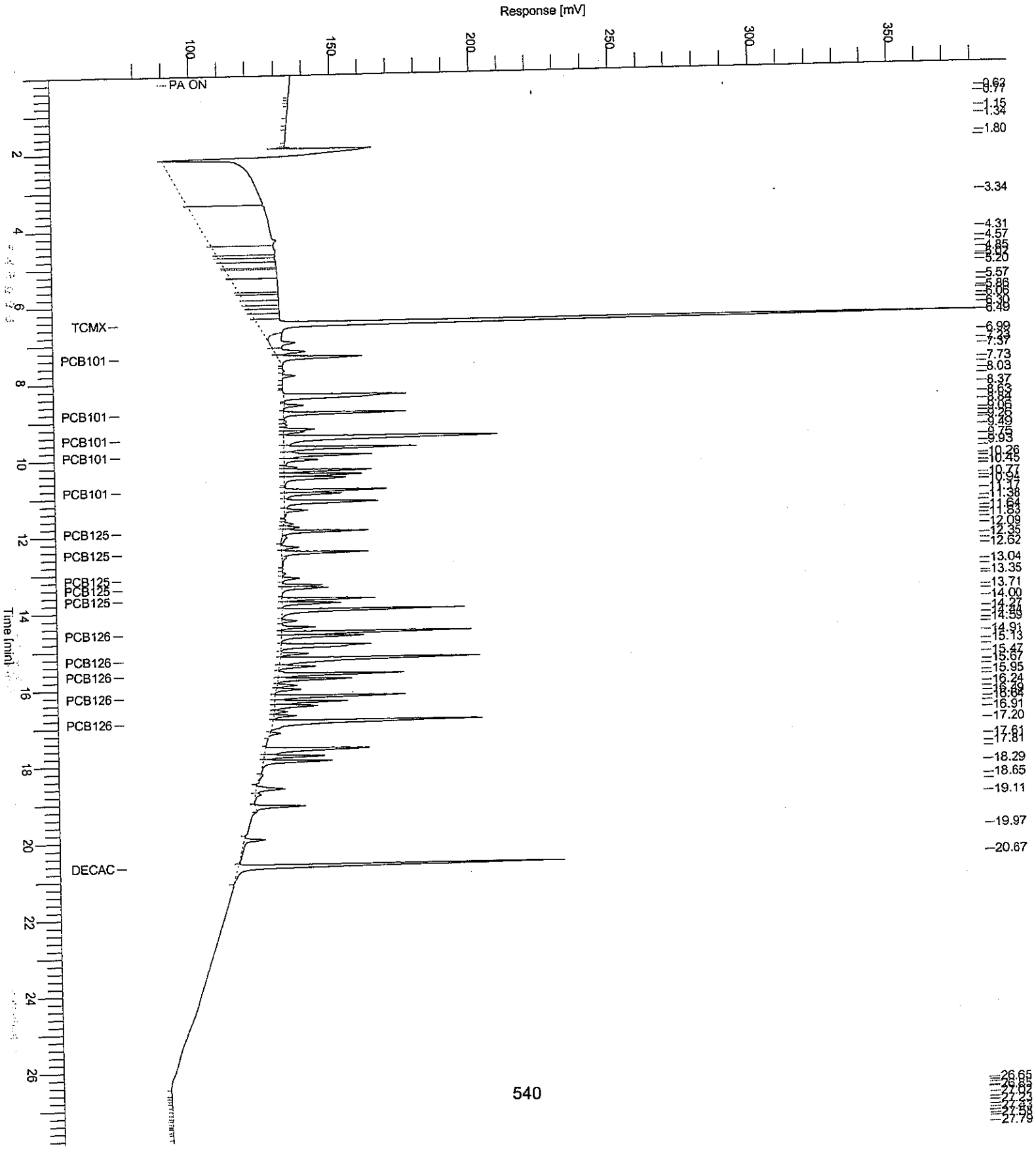
GC 06 Rtx-5

mple Name : ccv,04ws2130,pcb250_50
eName : G:\gc06\chb\334b034
te : 11/30/04 12:22:17 PM
thod : gc06fsa1ul
rt Time : 0.00 min
ale Factor: 1.0

Sample #: 250ug/l

Page 1 of 1

Time of Injection: 11/30/04 9:56:06 AM
End Time : 27.88 min
Low Point : 73.50 mV
High Point : 381.37 mV
Plot Offset: 73.50 mV
Plot Scale: 307.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766036
Calnum : 204461493001
Standards: 04WS2184

Run Name : ar1254
Filename : 334_036
Caldate : 15-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 11:02
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	249.1766	pg	0	15	
Aroclor-1254	B			250.0000	263.9550	pg	6	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/36
Sample Amount : 1.000000
Cycle : 36

Date : 11/30/04 12:22:03 PM
Data Acquisition Time : 11/30/04 11:02:31 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\cha\334a036.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	547650.16	49.03	1.0000	1	49.03	9.81
Aroclor-1016	11.860	9111.25	5.66	1.0000	1	5.66	1.13
Aroclor-1254	13.896	583234.57	0.58	1.0000	1	0.58	0.12
Aroclor-1260	16.327	82582.05	36.01	1.0000	1	36.01	7.20
Decachlorobiphenyl	21.667	470374.76	57.76	1.0000	1	57.76	11.55
		1692952.79	149.04			149.04	29.81

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.663	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.651	3481.89	7.55	1.0000	1	7.55	1.51
PCB1016#3	10.839	2117.11	4.15	1.0000	1	4.15	0.83
PCB1016#4	11.393	754.87	3.27	1.0000	1	3.27	0.65
PCB1016#5	11.860	2757.38	16.61	1.0000	1	16.61	3.32
		9111.25	31.58			31.58	6.32

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.253	92490.11	255.50	1.0000	1	255.50	51.10
PCB1254#2	13.896	165806.86	252.42	1.0000	1	252.42	50.48
PCB1254#3	14.590	98493.87	250.94	1.0000	1	250.94	50.19
PCB1254#4	15.577	109001.72	237.98	1.0000	1	237.98	47.60
PCB1254#5	16.030	117441.99	249.05	1.0000	1	249.05	49.81
		583234.57	1245.88			1245.88	249.18

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.988	15428.51	65.17	1.0000	1	65.17	13.03
PCB1260#2	16.327	34893.11	108.30	1.0000	1	108.30	21.66
PCB1260#3	16.920	6078.08	15.93	1.0000	1	15.93	3.19
PCB1260#4	17.587	9690.48	22.25	1.0000	1	22.25	4.45
PCB1260#5	18.339	16491.88	17.97	1.0000	1	17.97	3.59
		82582.05	229.62			229.62	45.92

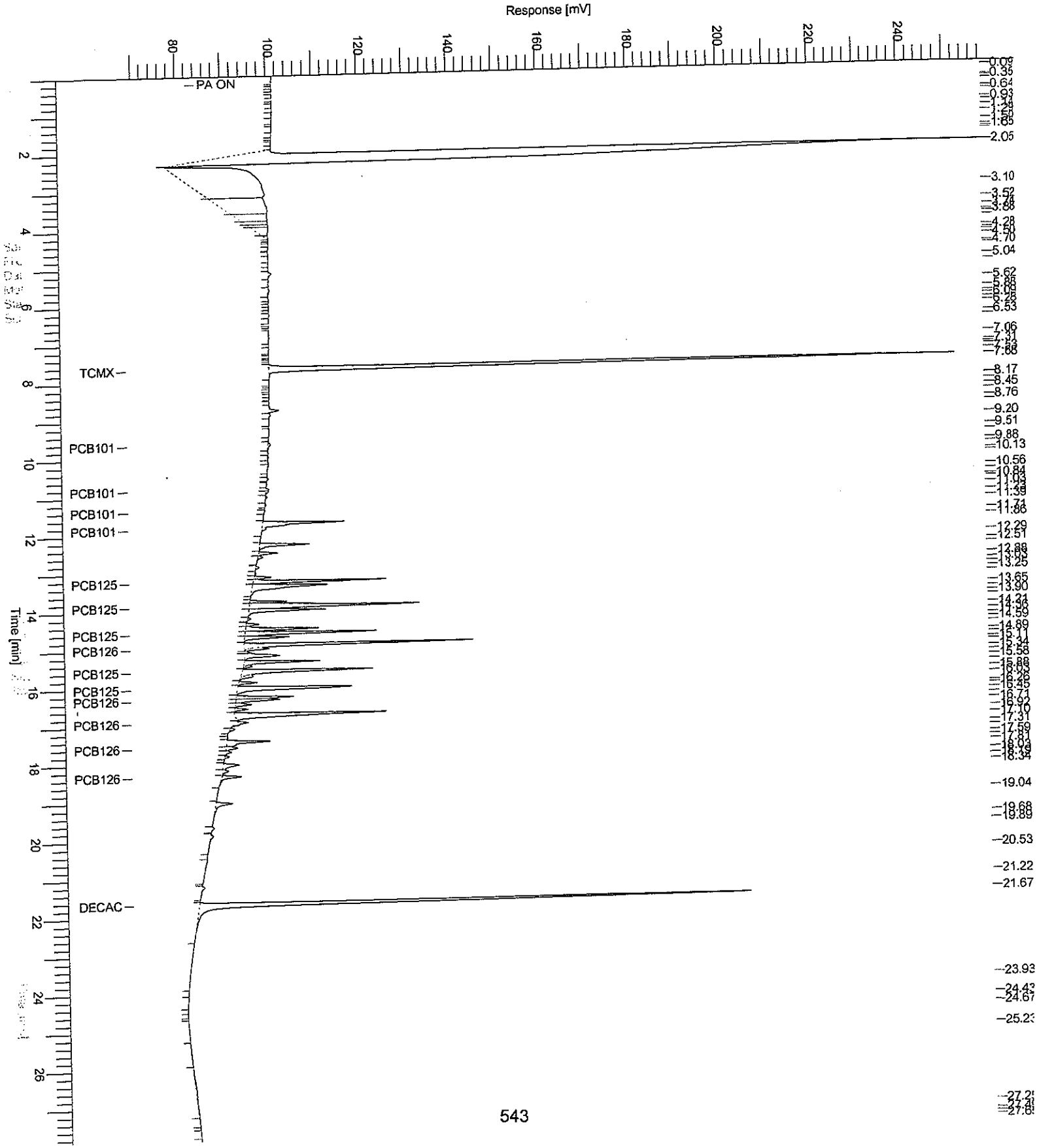
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc06\cha\334a036.TX0

Sample Name : ccv,04ws2184,ar1254
FileName : G:\gc06\cha\334a036.raw
Date : 11/30/04 12:22:06 PM
Method : gc06fsa1ul
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 11/30/04 11:02:31 AM
End Time : 27.88 min
Low Point : 68.26 mV
High Point : 258.63 mV
Plot Offset: 68.26 mV
Plot Scale: 190.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/36
Sample Amount : 1.000000
Cycle : 36

Date : 11/30/04 12:22:25 PM
Data Acquisition Time : 11/30/04 11:02:31 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\chb\334b036.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	1012114.05	51.14	1.0000	1	51.14	10.23
Aroclor-1016	10.859	89702.18	25.91	1.0000	1	25.91	5.18
Aroclor-1254	13.413	1107251.60	1.11	1.0000	1	1.11	0.22
Aroclor-1260	15.267	468674.30	92.71	1.0000	1	92.71	18.54
Decachlorobiphenyl	20.667	786553.44	83.47	1.0000	1	83.47	16.69
		3464295.58	254.34			254.34	50.87

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.377	2004.41	4.64	1.0000	1	4.64	0.93
PCB1016#2	8.841	4190.40	7.09	1.0000	1	7.09	1.42
PCB1016#3	9.482	8335.39	5.47	1.0000	1	5.47	1.09
PCB1016#4	9.936	1853.69	4.41	1.0000	1	4.41	0.88
PCB1016#5	10.859	73318.29	147.85	1.0000	1	147.85	29.57
		89702.18	169.47			169.47	33.89

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	216040.30	262.62	1.0000	1	262.62	52.52
PCB1254#2	12.493	284993.71	258.51	1.0000	1	258.51	51.70
PCB1254#3	13.160	182793.76	255.57	1.0000	1	255.57	51.11
PCB1254#4	13.413	350409.25	281.53	1.0000	1	281.53	56.31
PCB1254#5	13.699	73014.58	261.54	1.0000	1	261.54	52.31
		1107251.60	1319.78			1319.78	263.96

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	116787.24	116.86	1.0000	1	116.86	23.37
PCB1260#2	15.267	292507.67	234.72	1.0000	1	234.72	46.94
PCB1260#3	15.667	11063.32	16.70	1.0000	1	16.70	3.34
PCB1260#4	16.243	14656.77	20.82	1.0000	1	20.82	4.16
PCB1260#5	16.903	33659.29	23.32	1.0000	1	23.32	4.66
		468674.30	412.42			412.42	82.48

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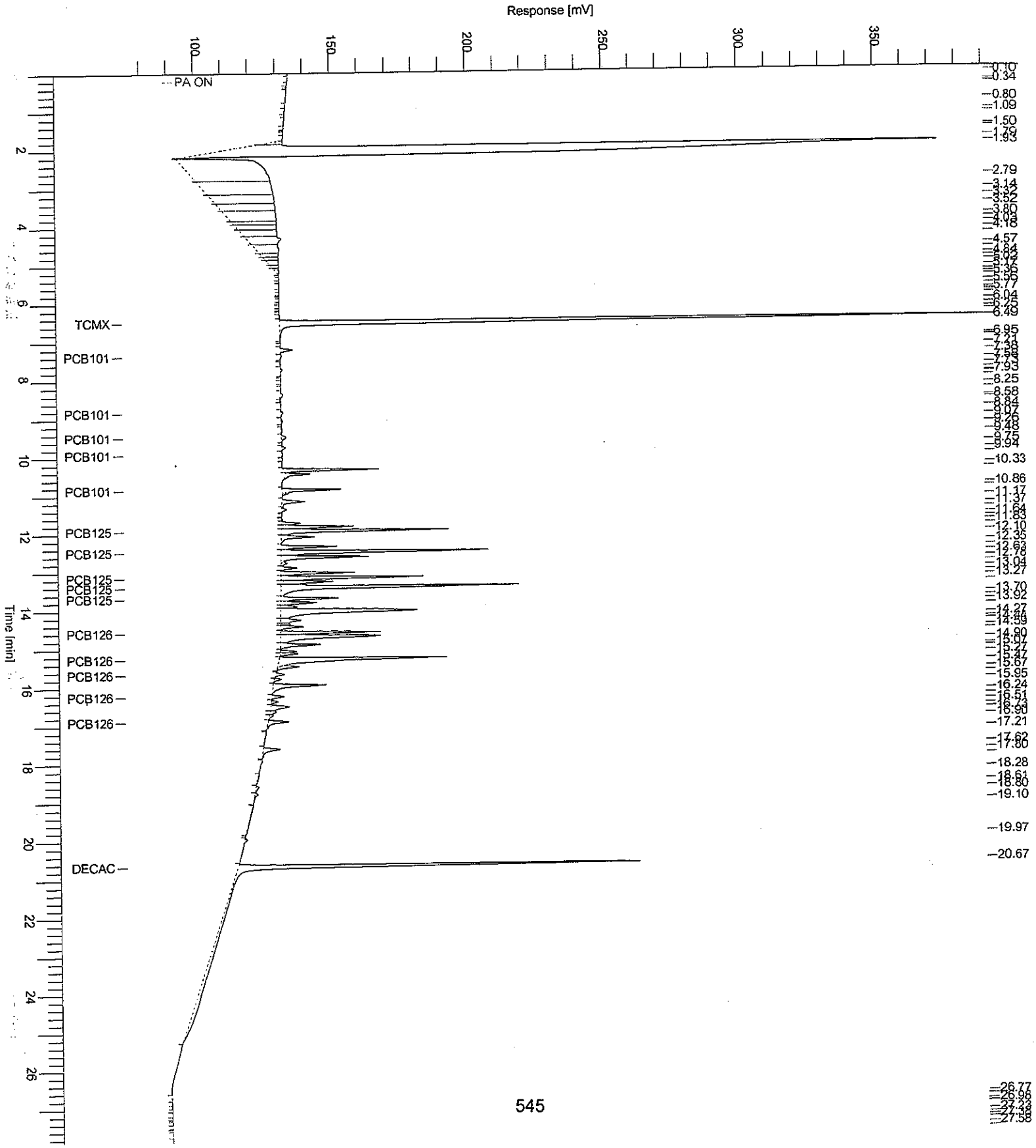
Report stored in ASCII file: g:\gc06\chb\334b036.TX0

GC 06 Rtx-5

ample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\chb\334b036
ate : 11/30/04 12:22:28 PM
ethod : gc06fsa1ul Time of Injection: 11/30/04 11:02:31 AM
art Time : 0.00 min End Time : 27.88 min Low Point : 73.12 mV High Point : 391.05 mV
cale Factor: 1.0 Plot Offset: 73.12 mV Plot Scale: 317.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

:nstid : GC06
;eqnum : 204481766047
:alnum : 204456284001
;tandards: 04WS2064

Run Name : pcb500_100
Filename : 334_047
Caldate : 11-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 17:08
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			500.0000	496.9496	pg	-1	15	
Aroclor-1260	A			500.0000	467.2586	pg	-7	15	
TCMX	A	11170	10718	100.0000	95.95461	pg	-4	15	
Decachlorobiphenyl	A	8143.9	7095.9	100.0000	87.13118	pg	-13	15	
Aroclor-1016	B			500.0000	518.0343	pg	4	15	
Aroclor-1260	B			500.0000	453.7915	pg	-9	15	
TCMX	B	19793	18793	100.0000	94.95127	pg	-5	15	
Decachlorobiphenyl	B	9422.9	8294.4	100.0000	88.02484	pg	-12	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2064,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/47
Sample Amount : 1.000000
Cycle : 47

Date : 11/30/04 6:57:26 PM
Data Acquisition Time : 11/30/04 5:08:36 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a047.rstp.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.693	1071803.77	95.95	1.0000	1	95.95	19.19
Aroclor-1016	10.893	793178.88	493.10	1.0000	1	493.10	98.62
Aroclor-1254	16.027	660501.83	0.66	1.0000	1	0.66	0.13
Aroclor-1260	18.347	1057289.03	460.98	1.0000	1	460.98	92.20
Decachlorobiphenyl	21.680	709585.63	87.13	1.0000	1	87.13	17.43
		4292359.15	1137.82			1137.82	227.56

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.699	120550.11	501.04	1.0000	1	501.04	100.21
PCB1016#2	9.661	215186.89	466.45	1.0000	1	466.45	93.29
PCB1016#3	10.893	256851.38	503.59	1.0000	1	503.59	100.72
PCB1016#4	11.406	115372.26	500.39	1.0000	1	500.39	100.08
PCB1016#5	11.876	85218.24	513.29	1.0000	1	513.29	102.66
		793178.88	2484.75			2484.75	496.95

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.259	87191.86	240.87	1.0000	1	240.87	48.17
PCB1254#2	13.906	117445.59	178.79	1.0000	1	178.79	35.76
PCB1254#3	14.584	63282.66	161.23	1.0000	1	161.23	32.25
PCB1254#4	15.592	32881.73	71.79	1.0000	1	71.79	14.36
PCB1254#5	16.027	359700.00	762.79	1.0000	1	762.79	152.56
		660501.83	1415.46			1415.46	283.09

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	15.002	116175.82	490.73	1.0000	1	490.73	98.15
PCB1260#2	16.336	152998.44	474.85	1.0000	1	474.85	94.97
PCB1260#3	16.989	182278.70	477.72	1.0000	1	477.72	95.54
PCB1260#4	17.597	192949.30	442.98	1.0000	1	442.98	88.60
PCB1260#5	18.347	412886.77	450.01	1.0000	1	450.01	90.00
		1057289.03	2336.29			2336.29	467.26

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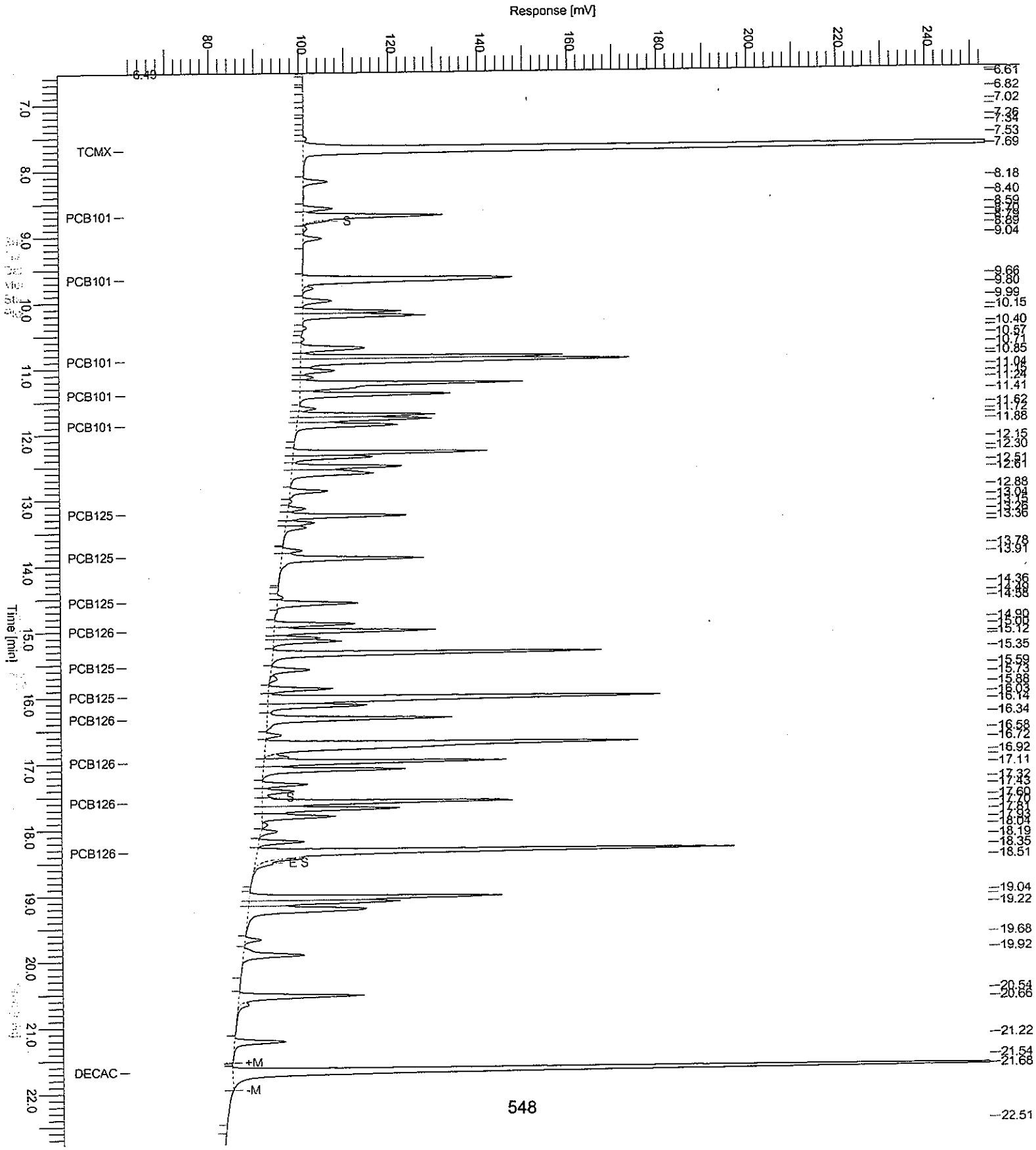
Report stored in ASCII file: G:\gc06\cha\334a047.rstp.TX0

GC 06 Rtx-CLPesticides

Sample Name : ccv,04ws2064,pcb500_100 Sample #: 500ug/l
FileName : G:\gc06\CHa\334a047.raw
Date : 11/30/04 6:57:33 PM
Method :
Time of Injection: 11/30/04 5:08:36 PM
Start Time : 6.53 min End Time : 22.79 min Low Point : 60.94 mV High Point : 253.34 mV
Plot Offset: 60.94 mV Plot Scale: 192.4 mV

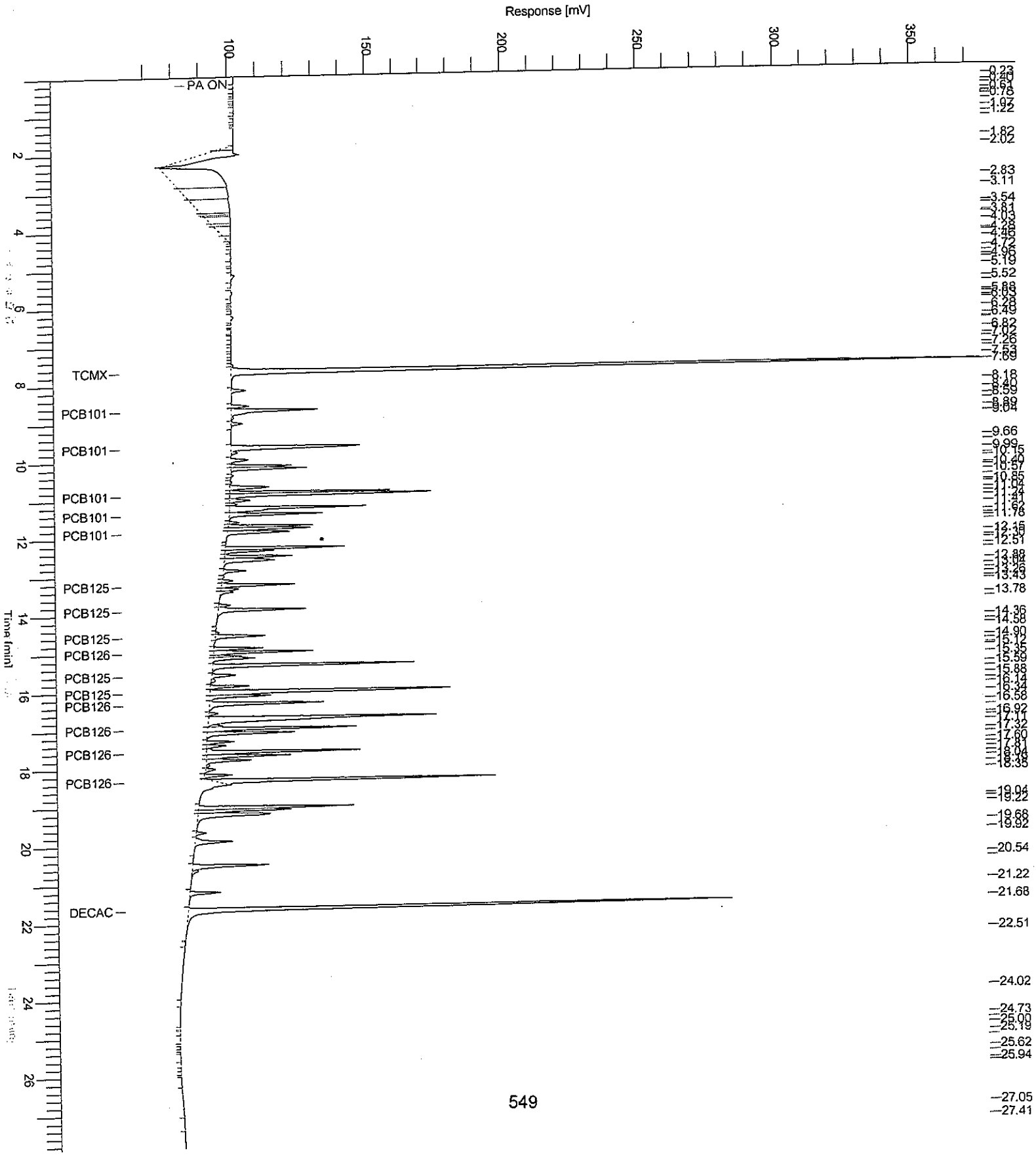


GC 06 Rtx-CLPesticides

mple Name : ccv,04ws2064,pcb500_100
eName : G:\gc06\CHa\334a047.raw
te : 11/30/04 6:54:11 PM
thod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 500ug/l

Time of Injection: 11/30/04 5:08:36 PM
End Time : 27.88 min
Low Point : 60.83 mV
High Point : 376.06 mV
Plot Offset: 60.83 mV
Plot Scale: 315.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2064,pcb500_100
Instrument Name : gc06
Rack/Vial : 1/47
Sample Amount : 1.000000
Cycle : 47

Date : 11/30/04 6:58:27 PM
Data Acquisition Time : 11/30/04 5:08:36 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b047.rstp.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.507	1879342.35	94.95	1.0000	1	94.95	18.99
Aroclor-1016	9.493	1772687.50	512.13	1.0000	1	512.13	102.43
Aroclor-1254	13.707	786210.82	0.79	1.0000	1	0.79	0.16
Aroclor-1260	16.907	2301159.64	455.21	1.0000	1	455.21	91.04
Decachlorobiphenyl	20.667	829444.92	88.02	1.0000	1	88.02	17.60
		7568845.23	1151.10			1151.10	230.22

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.387	221167.30	511.91	1.0000	1	511.91	102.38
PCB1016#2	8.840	285578.38	483.45	1.0000	1	483.45	96.69
PCB1016#3	9.493	771573.19	506.74	1.0000	1	506.74	101.35
PCB1016#4	9.933	250720.59	596.74	1.0000	1	596.74	119.35
PCB1016#5	10.867	243648.05	491.33	1.0000	1	491.33	98.27
		1772687.50	2590.17			2590.17	518.03

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.947	203196.93	247.01	1.0000	1	247.01	49.40
PCB1254#2	12.493	205257.20	186.18	1.0000	1	186.18	37.24
PCB1254#3	13.172	45737.35	63.95	1.0000	1	63.95	12.79
PCB1254#4	13.413	126061.19	101.28	1.0000	1	101.28	20.26
PCB1254#5	13.707	205958.15	737.75	1.0000	1	737.75	147.55
		786210.82	1336.17			1336.17	267.23

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	446625.97	446.91	1.0000	1	446.91	89.38
PCB1260#2	15.280	588591.17	472.30	1.0000	1	472.30	94.46
PCB1260#3	15.680	295196.06	445.57	1.0000	1	445.57	89.11
PCB1260#4	16.253	318114.89	451.98	1.0000	1	451.98	90.40
PCB1260#5	16.907	652631.54	452.20	1.0000	1	452.20	90.44
		2301159.64	2268.96			2268.96	453.79

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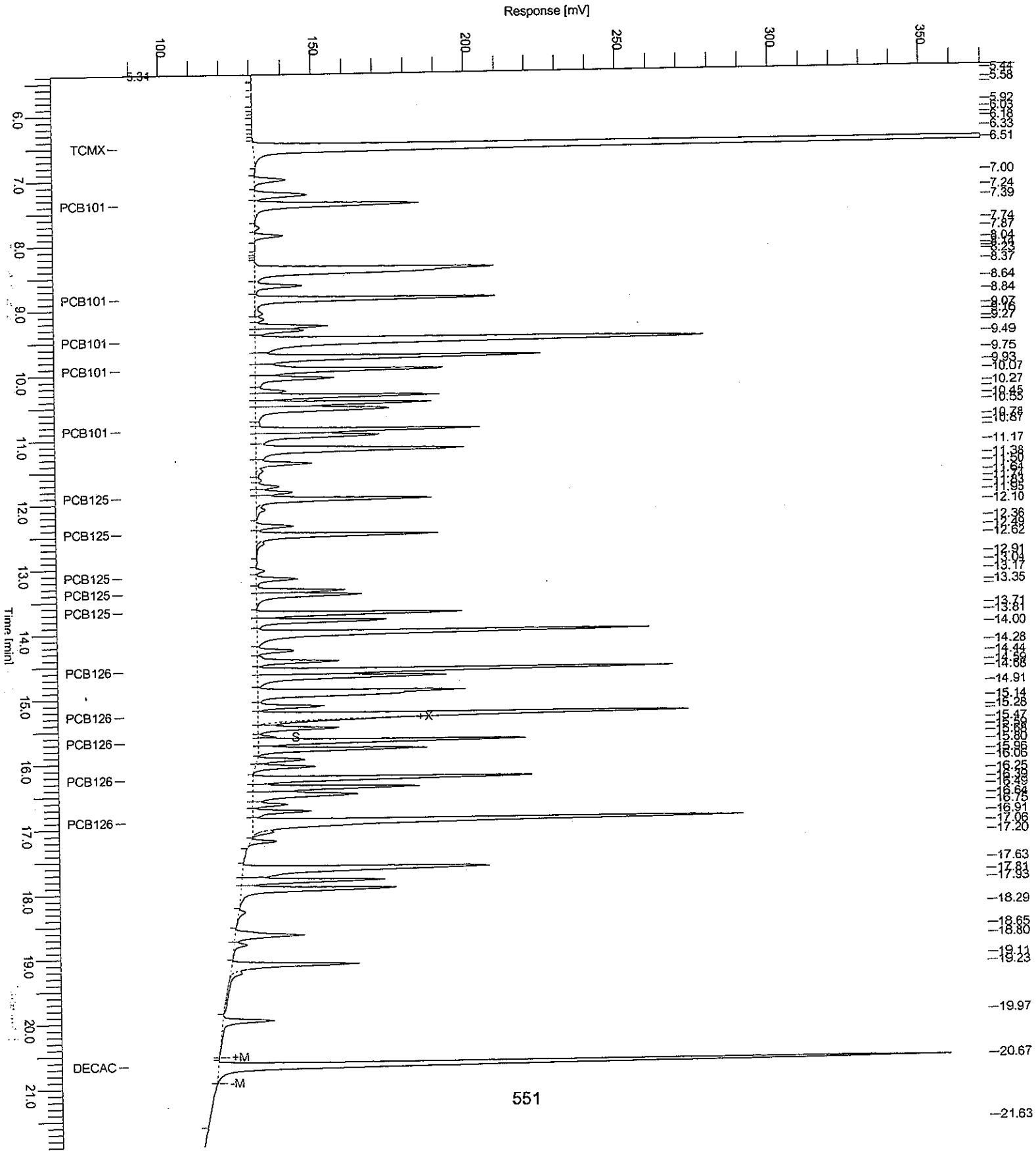
Report stored in ASCII file: G:\gc06\chb\334b047.rstp.TX0

GC 06 Rtx-5

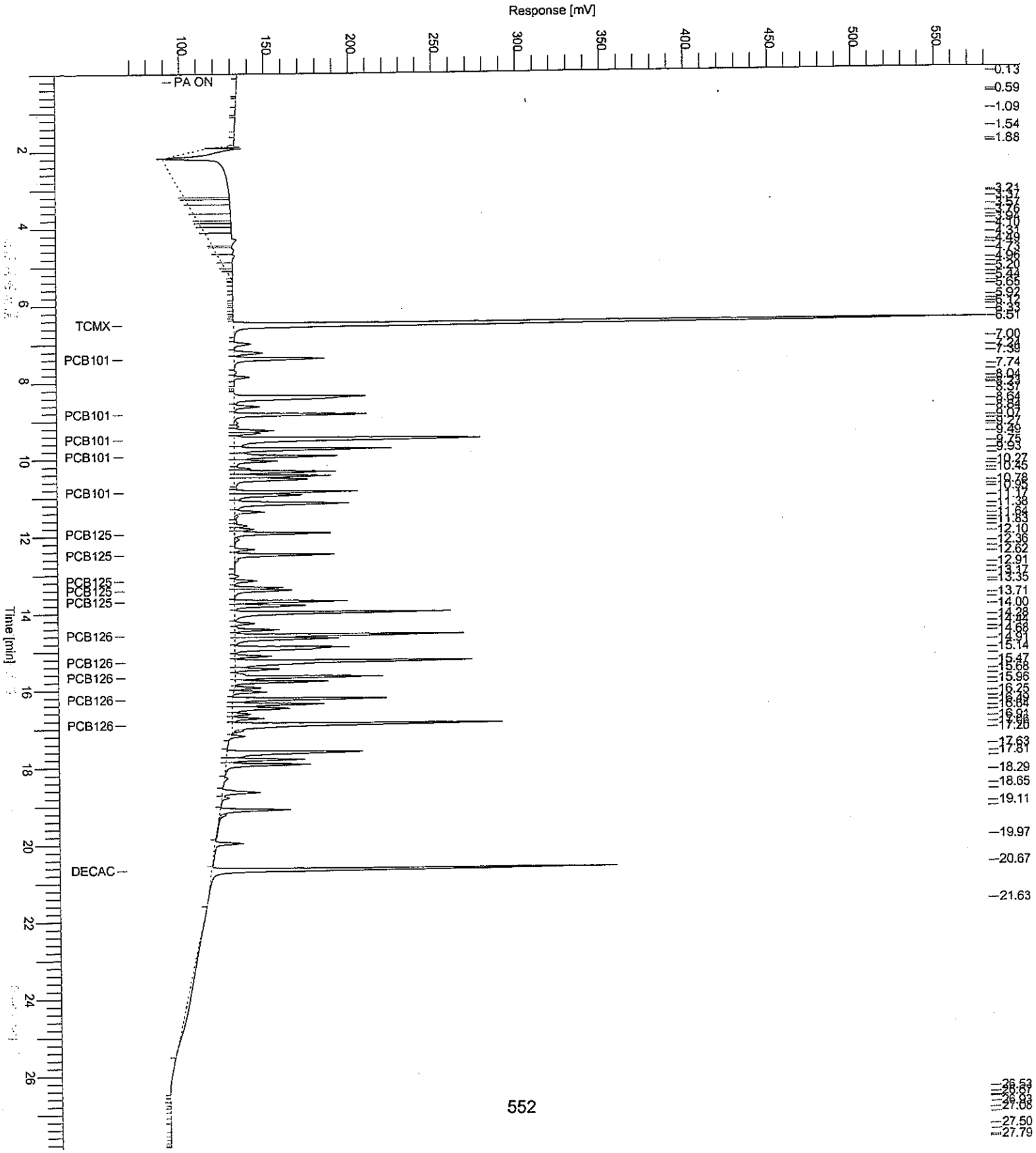
ɪnple Name : ccv,04ws2064,pcb500_100 Sample #: 500ug/l Page 1 of 1
ɜName : G:\gc06\CHb\334b047.raw
te : 11/30/04 6:58:34 PM
thod :
ɪrt Time : 5.39 min End Time : 21.91 min Low Point : 86.36 mV High Point : 370.02 mV
ɪt Offset: 86.36 mV Plot Scale: 283.7 mV

Time of Injection: 11/30/04 5:08:36 PM



GC 06 Rtx-5

ample Name : ccv,04ws2064,pcb500_100 Sample #: 500ug/l Page 1 of 1
ileName : G:\gc06\CHb\334b047
ate : 11/30/04 6:54:36 PM
lethod : gc06fsa1ul Time of Injection: 11/30/04 5:08:36 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 64.88 mV High Point : 580.94 mV
cale Factor: 1.0 Plot Offset: 64.88 mV Plot Scale: 516.1 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766049
Calnum : 204461493001
Standards: 04WS2184

Run Name : ar1254
Filename : 334_049
Caldate : 15-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 18:15
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	248.8960	pg	0	15	
Aroclor-1254	B			250.0000	276.2954	pg	11	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/49
Sample Amount : 1.000000
Cycle : 49

Date : 11/30/04 6:54:24 PM
Data Acquisition Time : 11/30/04 6:15:09 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\cha\334a049.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.693	584480.80	52.33	1.0000	1	52.33	10.47
Aroclor-1016	11.867	8884.86	5.52	1.0000	1	5.52	1.10
Aroclor-1254	13.906	582265.04	0.58	1.0000	1	0.58	0.12
Aroclor-1260	16.335	79405.46	34.62	1.0000	1	34.62	6.92
Decachlorobiphenyl	21.680	493522.06	60.60	1.0000	1	60.60	12.12
		1748558.22	153.65			153.65	30.73

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.699	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.659	2812.99	6.10	1.0000	1	6.10	1.22
PCB1016#3	10.898	2064.55	4.05	1.0000	1	4.05	0.81
PCB1016#4	11.408	713.80	3.10	1.0000	1	3.10	0.62
PCB1016#5	11.867	3293.53	19.84	1.0000	1	19.84	3.97
		8884.86	33.08			33.08	6.62

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.263	94857.18	262.04	1.0000	1	262.04	52.41
PCB1254#2	13.906	167184.62	254.52	1.0000	1	254.52	50.90
PCB1254#3	14.600	99175.82	252.68	1.0000	1	252.68	50.54
PCB1254#4	15.588	103679.79	226.36	1.0000	1	226.36	45.27
PCB1254#5	16.039	117367.63	248.89	1.0000	1	248.89	49.78
		582265.04	1244.48			1244.48	248.90

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.997	16792.60	70.93	1.0000	1	70.93	14.19
PCB1260#2	16.335	36367.23	112.87	1.0000	1	112.87	22.57
PCB1260#3	16.989	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#4	17.598	10174.61	23.36	1.0000	1	23.36	4.67
PCB1260#5	18.349	16071.02	17.52	1.0000	1	17.52	3.50
		79405.46	224.68			224.68	44.94

----------CURTIS & TOMPKINS LTD----------

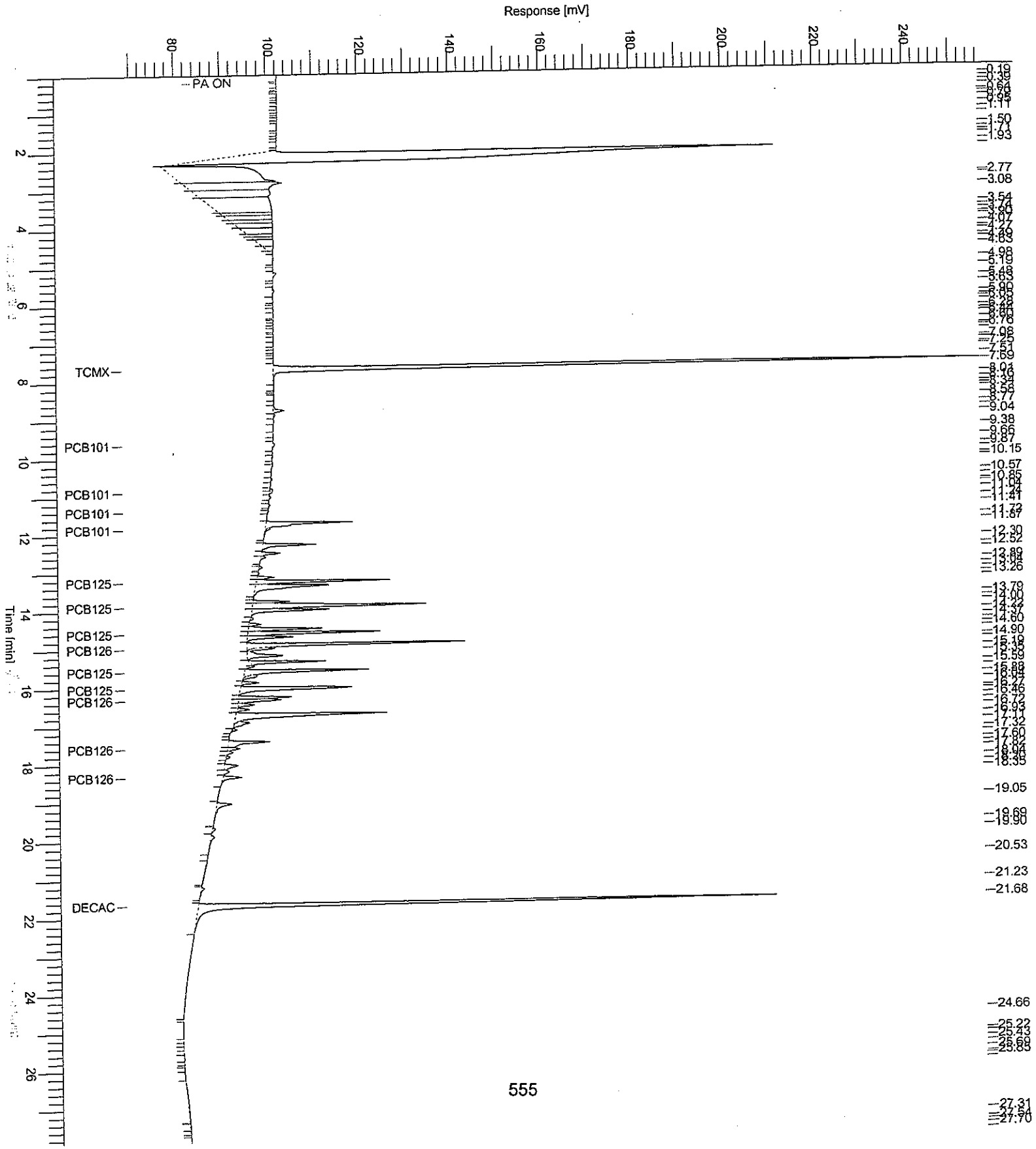
Report stored in ASCII file: g:\gc06\cha\334a049.TX0

GC 06 Rtx-CLPesticides

ımple Name : ccv,04ws2184,ar1254
eName : G:\gc06\CHa\334a049.raw
ıte : 11/30/04 6:54:28 PM
ethod : gc06fsa1ul
art Time : 0.00 min
ale Factor: 1.0

Sample #: 250ug/l

Time of Injection: 11/30/04 6:15:09 PM
End Time : 27.88 min
Low Point : 68.07 mV
High Point : 256.50 mV
Plot Offset: 68.07 mV
Plot Scale: 188.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/49
Sample Amount : 1.000000
Cycle : 49

Date : 11/30/04 6:54:46 PM
Data Acquisition Time : 11/30/04 6:15:09 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\chb\334b049.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.507	1082981.71	54.72	1.0000	1	54.72	10.94
Aroclor-1016	10.868	86616.81	25.02	1.0000	1	25.02	5.00
Aroclor-1254	13.413	1152699.69	1.15	1.0000	1	1.15	0.23
Aroclor-1260	15.280	489851.71	96.90	1.0000	1	96.90	19.38
Decachlorobiphenyl	20.667	1099028.66	116.63	1.0000	1	116.63	23.33
		3911178.58	294.43			294.43	58.89

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.385	2798.19	6.48	1.0000	1	6.48	1.30
PCB1016#2	8.850	4934.28	8.35	1.0000	1	8.35	1.67
PCB1016#3	9.491	11671.28	7.67	1.0000	1	7.67	1.53
PCB1016#4	9.944	2750.57	6.55	1.0000	1	6.55	1.31
PCB1016#5	10.868	64462.50	129.99	1.0000	1	129.99	26.00
		86616.81	159.03			159.03	31.81

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.947	221682.70	269.48	1.0000	1	269.48	53.90
PCB1254#2	12.493	292523.52	265.34	1.0000	1	265.34	53.07
PCB1254#3	13.173	187913.91	262.73	1.0000	1	262.73	52.55
PCB1254#4	13.413	370713.98	297.85	1.0000	1	297.85	59.57
PCB1254#5	13.708	79865.58	286.08	1.0000	1	286.08	57.22
		1152699.69	1381.48			1381.48	276.30

Group Report For : Aroclor-1260

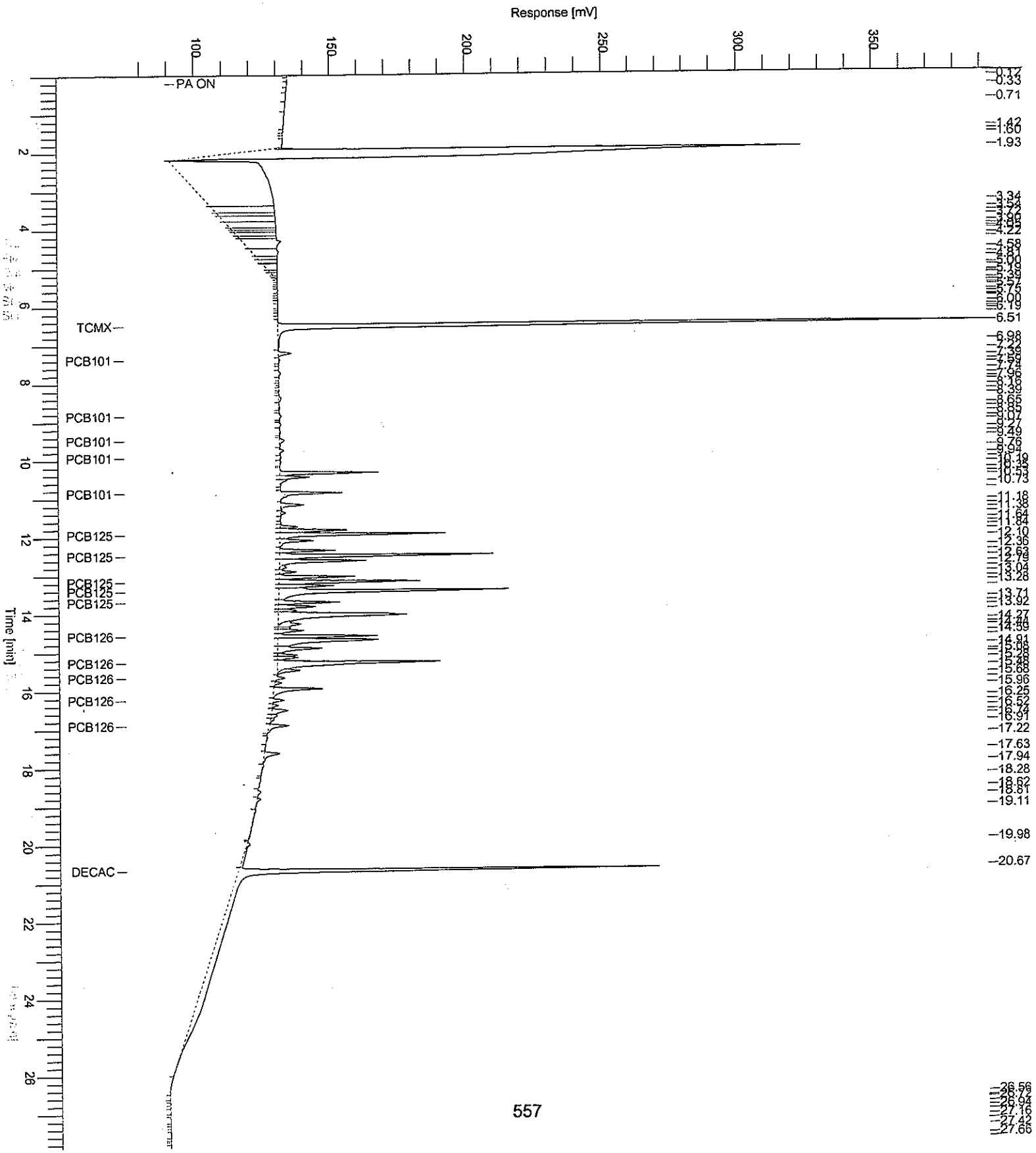
Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	123807.30	123.89	1.0000	1	123.89	24.78
PCB1260#2	15.280	307066.12	246.40	1.0000	1	246.40	49.28
PCB1260#3	15.676	10964.49	16.55	1.0000	1	16.55	3.31
PCB1260#4	16.252	14665.69	20.84	1.0000	1	20.84	4.17
PCB1260#5	16.910	33348.12	23.11	1.0000	1	23.11	4.62
		489851.71	430.78			430.78	86.16

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc06\chb\334b049.TX0

GC 06 Rtx-5

Sample Name : ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
FileName : G:\gc06\CHb\334b049
Date : 11/30/04 6:54:51 PM
Method : gc06fsa1ul Time of Injection: 11/30/04 6:15:09 PM
Start Time : 0.00 min End Time : 27.88 min Low Point : 73.93 mV High Point : 392.87 mV
Scale Factor: 1.0 Plot Offset: 73.93 mV Plot Scale: 318.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

:nstid : GC06
;eqnum : 204481766062
:alnum : 204456284001
;tandards: 04WS2130

Run Name : pcb250_50
Filename : 334_062
Caldate : 11-NOV-2004

IDF : 1.0
Injected : 01-DEC-2004 12:42
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1016	A			250.0000	238.6613	pg	-5	15	
Aroclor-1260	A			250.0000	220.4555	pg	-12	15	
TCMX	A	11170	10750	50.00000	48.11842	pg	-4	15	
Decachlorobiphenyl	A	8143.9	7902.1	50.00000	48.51560	pg	-3	15	
Aroclor-1016	B			250.0000	269.5639	pg	8	15	
Aroclor-1260	B			250.0000	233.0895	pg	-7	15	
TCMX	B	19793	19134	50.00000	48.33495	pg	-3	15	
Decachlorobiphenyl	B	9422.9	9276.8	50.00000	49.22494	pg	-2	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/62
Sample Amount : 1.000000
Cycle : 62

Date : 12/1/04 3:45:35 PM
Data Acquisition Time : 12/1/04 12:42:59 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a062p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	537478.11	48.12	1.0000	1	48.12	9.62
Aroclor-1016	10.888	388004.02	241.21	1.0000	1	241.21	48.24
Aroclor-1254	16.020	501912.62	0.50	1.0000	1	0.50	0.10
Aroclor-1260	18.336	483265.97	210.70	1.0000	1	210.70	42.14
Decachlorobiphenyl	21.667	395105.09	48.52	1.0000	1	48.52	9.70
		2305765.80	549.05			549.05	109.81

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.689	61119.36	254.03	1.0000	1	254.03	50.81
PCB1016#2	9.651	108549.24	235.30	1.0000	1	235.30	47.06
PCB1016#3	10.888	128892.59	252.71	1.0000	1	252.71	50.54
PCB1016#4	11.397	51872.09	224.98	1.0000	1	224.98	45.00
PCB1016#5	11.865	37570.74	226.30	1.0000	1	226.30	45.26
		388004.02	1193.31			1193.31	238.66

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.251	39822.86	110.01	1.0000	1	110.01	22.00
PCB1254#2	13.896	179662.05	273.51	1.0000	1	273.51	54.70
PCB1254#3	14.574	83675.18	213.18	1.0000	1	213.18	42.64
PCB1254#4	15.585	14133.98	30.86	1.0000	1	30.86	6.17
PCB1254#5	16.020	184618.55	391.51	1.0000	1	391.51	78.30
		501912.62	1019.07			1019.07	203.81

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.992	57231.09	241.75	1.0000	1	241.75	48.35
PCB1260#2	16.329	68002.42	211.05	1.0000	1	211.05	42.21
PCB1260#3	16.982	91631.42	240.15	1.0000	1	240.15	48.03
PCB1260#4	17.588	98657.37	226.50	1.0000	1	226.50	45.30
PCB1260#5	18.336	167743.67	182.83	1.0000	1	182.83	36.57
		483265.97	1102.28			1102.28	220.46

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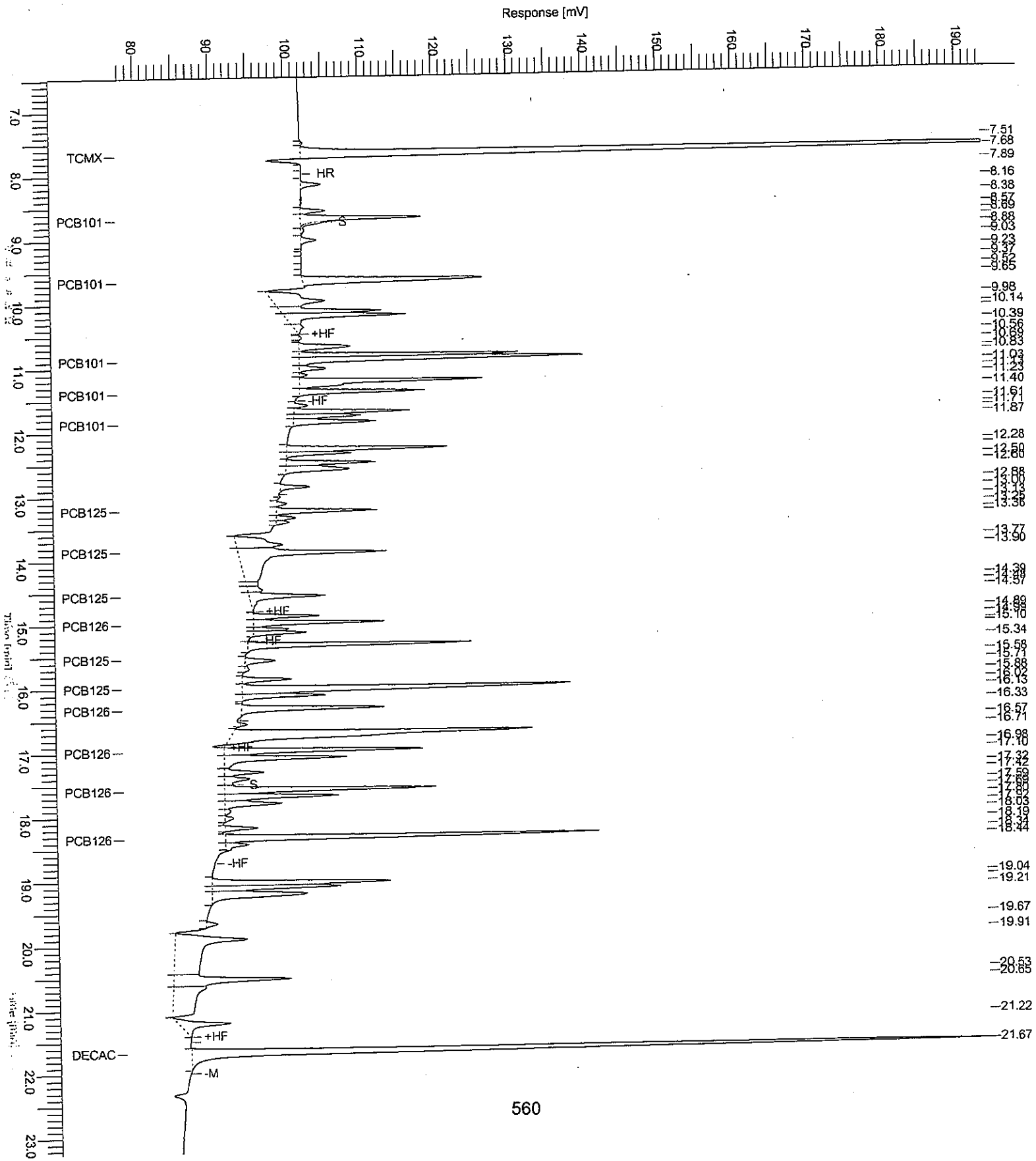
Report stored in ASCII file: G:\gc06\cha\334a062p.TX0

GC 06 Rtx-CLPesticides

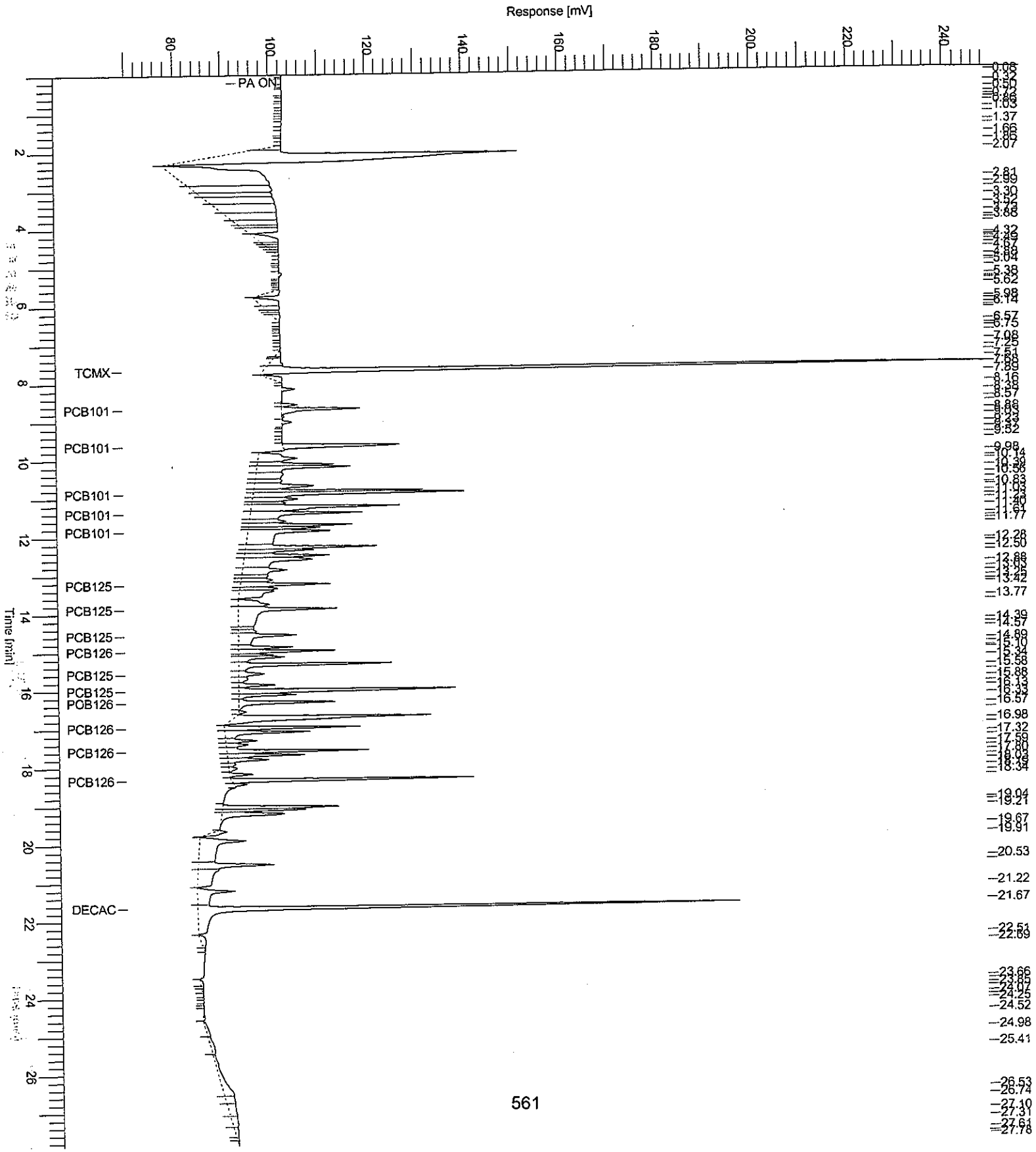
nple Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
Name : G:\gc06\cha\334a062.raw
le : 12/1/04 3:45:40 PM
thod :
rt Time : 6.48 min End Time : 23.25 min Low Point : 77.58 mV High Point : 193.54 mV
t Offset: 77.58 mV Plot Scale: 116.0 mV

Time of Injection: 12/1/04 12:42:59 PM



GC 06 Rtx-CLPesticides

ample Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\cha\334a062.raw
ate : 12/1/04 3:40:30 PM
ethod : gc06fsa1ul Time of Injection: 12/1/04 12:42:59 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 69.13 mV High Point : 248.55 mV
cale Factor: 1.0 Plot Offset: 69.13 mV Plot Scale: 179.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2130,pcb250_50
Instrument Name : gc06
Rack/Vial : 1/62
Sample Amount : 1.000000
Cycle : 62

Date : 12/1/04 3:47:03 PM
Data Acquisition Time : 12/1/04 12:42:59 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\chb\334b062p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	956679.34	48.33	1.0000	1	48.33	9.67
Aroclor-1016	9.493	926091.14	267.55	1.0000	1	267.55	53.51
Aroclor-1254	12.493	507513.57	0.51	1.0000	1	0.51	0.10
Aroclor-1260	16.893	1191395.54	235.68	1.0000	1	235.68	47.14
Decachlorobiphenyl	20.653	463839.25	49.22	1.0000	1	49.22	9.84
		4045518.85	601.29			601.29	120.26

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.373	120698.72	279.37	1.0000	1	279.37	55.87
PCB1016#2	8.840	150472.05	254.73	1.0000	1	254.73	50.95
PCB1016#3	9.493	406153.50	266.75	1.0000	1	266.75	53.35
PCB1016#4	9.933	124667.47	296.72	1.0000	1	296.72	59.34
PCB1016#5	10.853	124099.39	250.25	1.0000	1	250.25	50.05
		926091.14	1347.82			1347.82	269.56

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	101919.40	123.89	1.0000	1	123.89	24.78
PCB1254#2	12.493	207856.00	188.54	1.0000	1	188.54	37.71
PCB1254#3	13.162	26150.00	36.56	1.0000	1	36.56	7.31
PCB1254#4	13.409	62695.91	50.37	1.0000	1	50.37	10.07
PCB1254#5	13.693	108892.26	390.06	1.0000	1	390.06	78.01
		507513.57	789.42			789.42	157.88

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.573	235156.14	235.30	1.0000	1	235.30	47.06
PCB1260#2	15.267	323975.48	259.97	1.0000	1	259.97	51.99
PCB1260#3	15.667	134927.30	203.66	1.0000	1	203.66	40.73
PCB1260#4	16.240	167489.97	237.97	1.0000	1	237.97	47.59
PCB1260#5	16.893	329846.65	228.54	1.0000	1	228.54	45.71
		1191395.54	1165.45			1165.45	233.09

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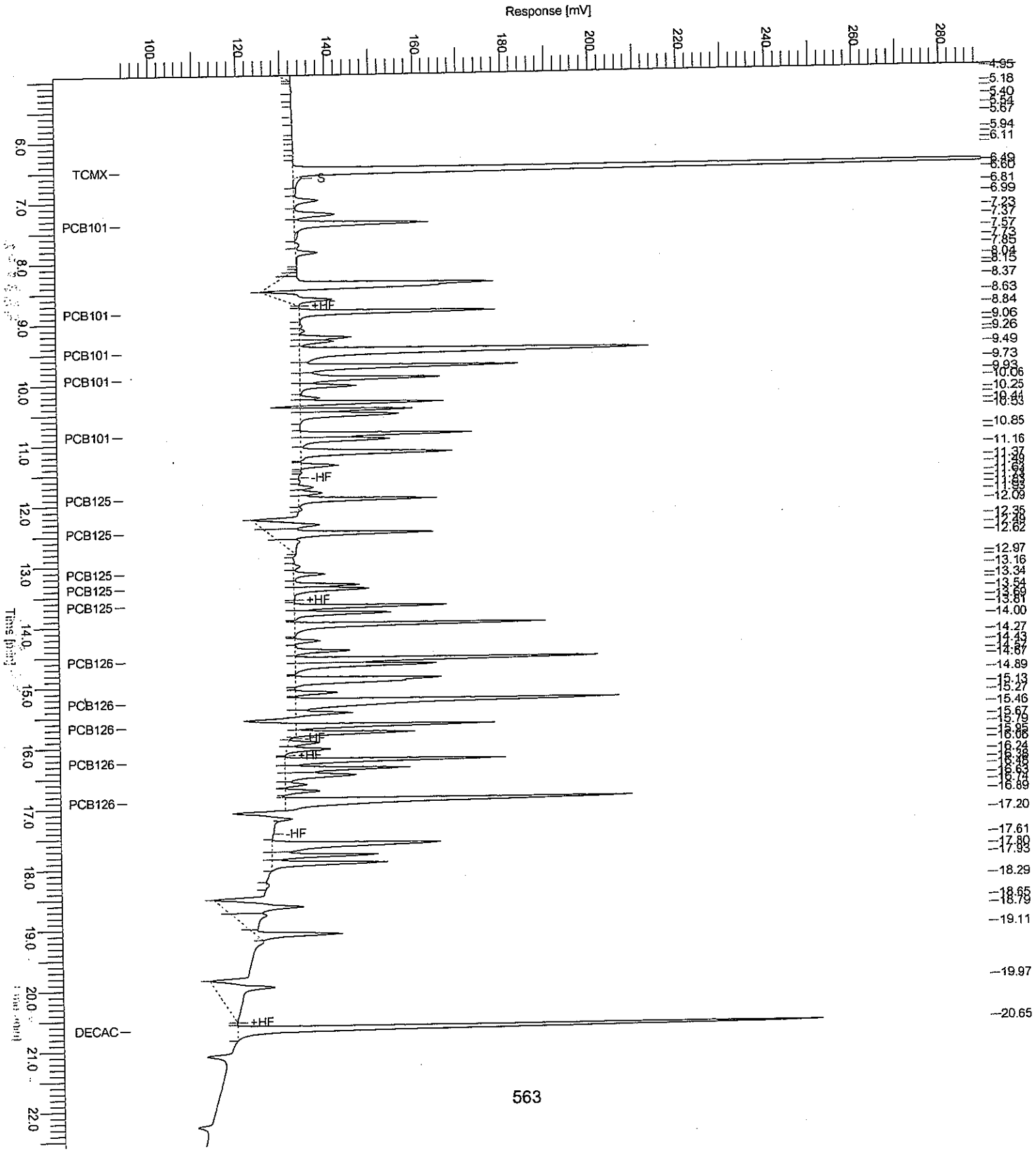
Report stored in ASCII file: G:\gc06\chb\334b062p.TX0

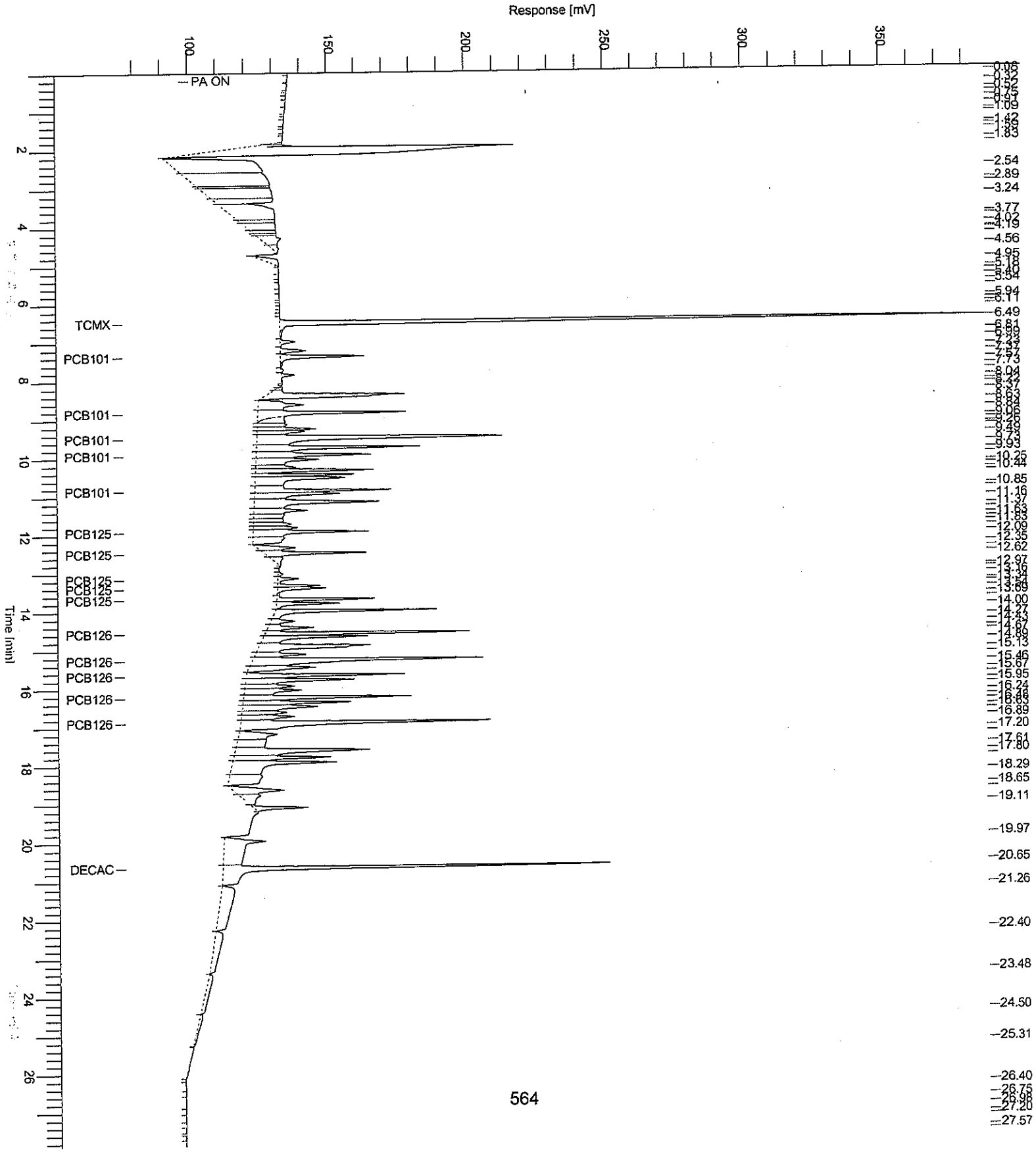
GC 06 Rtx-5

ample Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
leName : G:\gc06\chb\334b062.raw
ate : 12/1/04 3:47:07 PM
ethod :
Time of Injection: 12/1/04 12:42:59 PM
tart Time : 4.92 min End Time : 22.59 min Low Point : 93.49 mV High Point : 289.45 mV
lot Offset: 93.49 mV Plot Scale: 196.0 mV



GC 06 Rtx-5

ample Name : ccv,04ws2130,pcb250_50 Sample #: 250ug/l Page 1 of 1
ileName : G:\gc06\chb\334b062
ate : 12/1/04 3:40:52 PM
lethod : gc06fsa1ul Time of Injection: 12/1/04 12:42:59 PM
tart Time : 0.00 min End Time : 27.88 min Low Point : 76.15 mV High Point : 388.67 mV
cale Factor: 1.0 Plot Offset: 76.15 mV Plot Scale: 312.5 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC06
Seqnum : 204481766065
Calnum : 204461493001
Standards: 04WS2184

Run Name : ar1254
Filename : 334_065
Caldate : 15-NOV-2004

IDF : 1.0
Injected : 01-DEC-2004 14:22
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aroclor-1254	A			250.0000	219.5076	pg	-12	15	
Aroclor-1254	B			250.0000	245.1503	pg	-2	15	

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/65
Sample Amount : 1.000000
Cycle : 65

Date : 12/1/04 3:47:48 PM
Data Acquisition Time : 12/1/04 2:22:58 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc06\cha\334a065p.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL A

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	7.680	529717.08	47.42	1.0000	1	47.42	9.48
Aroclor-1016	11.861	10409.60	6.47	1.0000	1	6.47	1.29
Aroclor-1254	13.896	513709.86	0.51	1.0000	1	0.51	0.10
Aroclor-1260	16.328	69005.64	30.09	1.0000	1	30.09	6.02
Decachlorobiphenyl	21.667	412198.93	50.61	1.0000	1	50.61	10.12
		1535041.11	135.11			135.11	27.02

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	8.699	0.00	0.00	1.0000	1	0.00	0.00
PCB1016#2	9.653	4939.91	10.71	1.0000	1	10.71	2.14
PCB1016#3	10.887	1606.98	3.15	1.0000	1	3.15	0.63
PCB1016#4	11.395	685.74	2.97	1.0000	1	2.97	0.59
PCB1016#5	11.861	3176.96	19.14	1.0000	1	19.14	3.83
		10409.60	35.97			35.97	7.19

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	13.253	86023.97	237.64	1.0000	1	237.64	47.53
PCB1254#2	13.896	150173.35	228.62	1.0000	1	228.62	45.72
PCB1254#3	14.590	87224.73	222.23	1.0000	1	222.23	44.45
PCB1254#4	15.578	88261.74	192.70	1.0000	1	192.70	38.54
PCB1254#5	16.030	102026.07	216.36	1.0000	1	216.36	43.27
		513709.86	1097.54			1097.54	219.51

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.984	14921.95	63.03	1.0000	1	63.03	12.61
PCB1260#2	16.328	32961.99	102.30	1.0000	1	102.30	20.46
PCB1260#3	16.989	0.00	0.00	1.0000	1	0.00	0.00
PCB1260#4	17.587	9038.56	20.75	1.0000	1	20.75	4.15
PCB1260#5	18.340	12083.14	13.17	1.0000	1	13.17	2.63
		69005.64	199.25			199.25	39.85

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc06\cha\334a065p.TX0

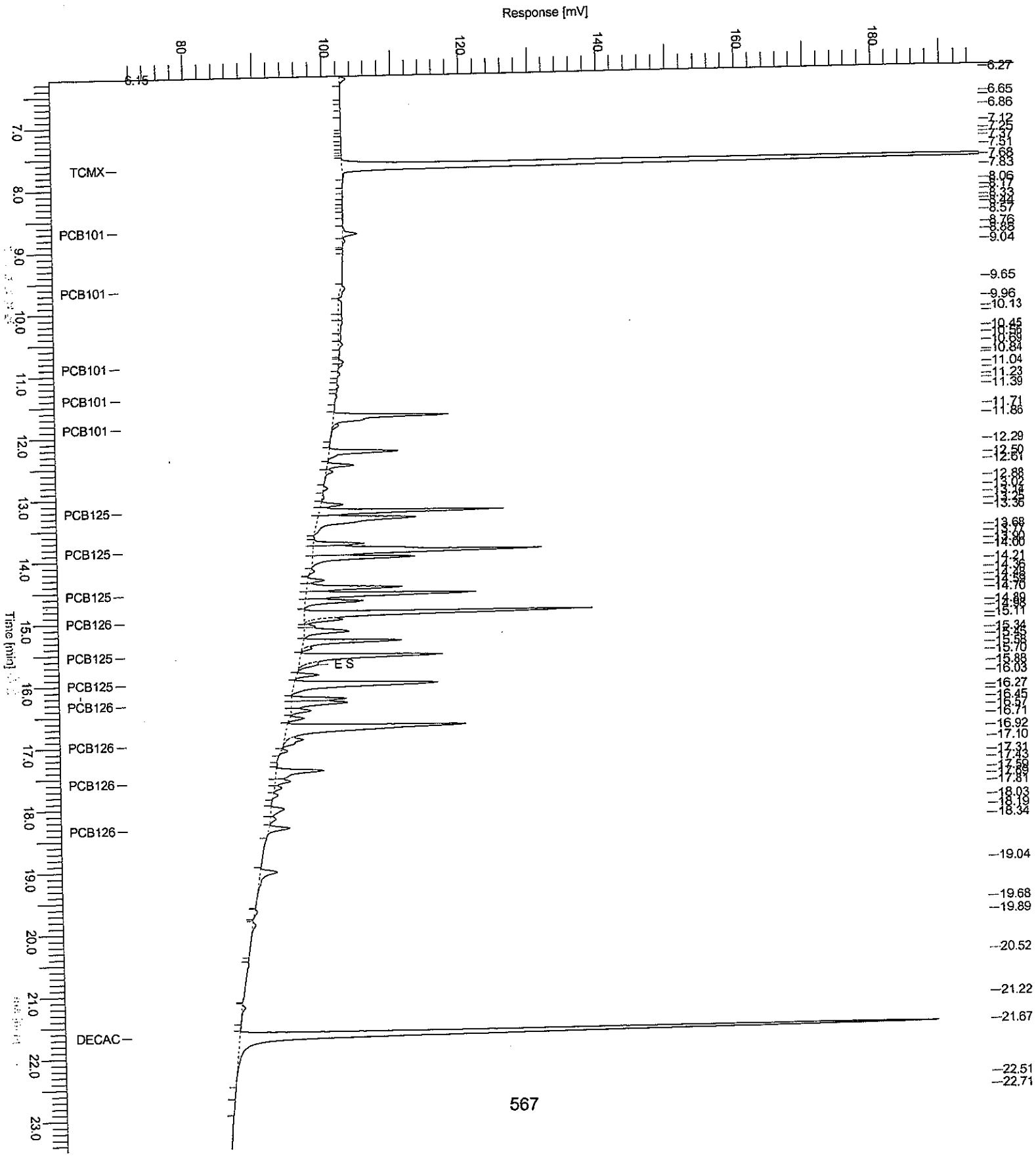
GC 06 Rtx-CLPesticides

mple Name : x,ccv,04ws2184,ar1254
eName : G:\gc06\cha\334a065.raw
ite : 12/1/04 3:47:53 PM
ethod :
art Time : 6.23 min
ot Offset: 70.17 mV

Sample #: 250ug/l

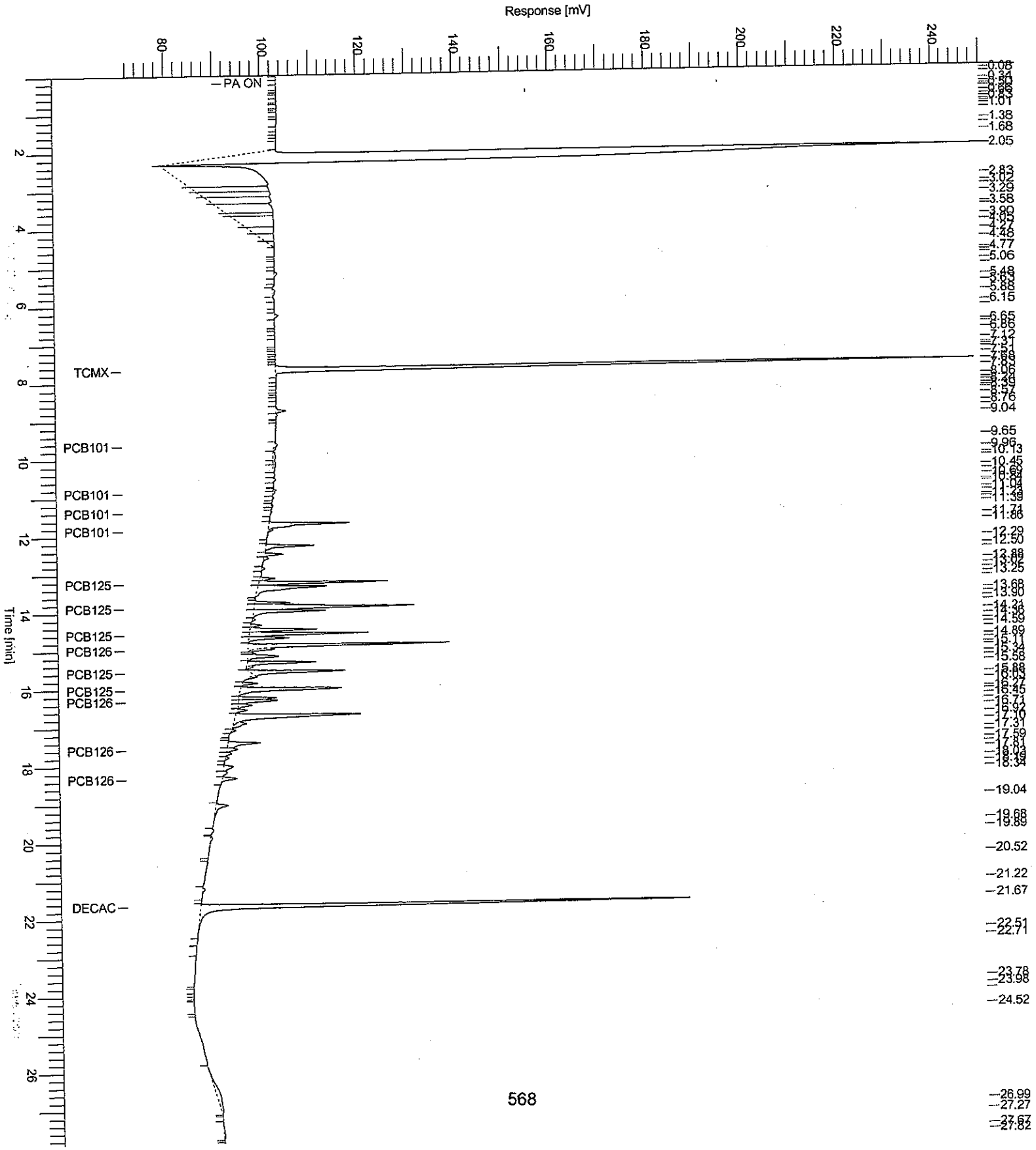
Page 1 of 1

Time of Injection: 12/1/04 2:22:58 PM
End Time : 23.49 min
Low Point : 70.17 mV
High Point : 195.67 mV
Plot Scale: 125.5 mV



GC 06 Rtx-CLPesticides

ımple Name : x,ccv,04ws2184,ar1254 Sample #: 250ug/l Page 1 of 1
eName : G:\gc06\cha\334a065.raw
ıte : 12/1/04 3:40:47 PM
ethod : gc06fsa1ul Time of Injection: 12/1/04 2:22:58 PM
art Time : 0.00 min End Time : 27.88 min Low Point : 70.62 mV High Point : 250.28 mV
cale Factor: 1.0 Plot Offset: 70.62 mV Plot Scale: 179.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2184,ar1254
Instrument Name : gc06
Rack/Vial : 1/65
Sample Amount : 1.000000
Cycle : 65

Date : 12/1/04 3:41:05 PM
Data Acquisition Time : 12/1/04 2:22:58 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : g:\gc06\chb\334b065.rst
Sequence File : G:\gc06\files\334.seq

PCB GC06 CHANNEL B

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
TCMX	6.493	995549.42	50.30	1.0000	1	50.30	10.06
Aroclor-1016	10.857	104147.90	30.09	1.0000	1	30.09	6.02
Aroclor-1254	13.413	1033731.76	1.03	1.0000	1	1.03	0.21
Aroclor-1260	15.267	403983.91	79.91	1.0000	1	79.91	15.98
Decachlorobiphenyl	20.667	705766.49	74.90	1.0000	1	74.90	14.98
		3243179.47	236.24			236.24	47.25

Group Report For : Aroclor-1016

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1016#1	7.375	2589.46	5.99	1.0000	1	5.99	1.20
PCB1016#2	8.840	15741.91	26.65	1.0000	1	26.65	5.33
PCB1016#3	9.481	13975.14	9.18	1.0000	1	9.18	1.84
PCB1016#4	9.933	3287.13	7.82	1.0000	1	7.82	1.56
PCB1016#5	10.857	68554.25	138.24	1.0000	1	138.24	27.65
		104147.90	187.89			187.89	37.58

Group Report For : Aroclor-1254

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1254#1	11.933	204990.44	249.19	1.0000	1	249.19	49.84
PCB1254#2	12.480	267901.61	243.00	1.0000	1	243.00	48.60
PCB1254#3	13.160	166577.18	232.90	1.0000	1	232.90	46.58
PCB1254#4	13.413	328080.55	263.59	1.0000	1	263.59	52.72
PCB1254#5	13.697	66181.98	237.07	1.0000	1	237.07	47.41
		1033731.76	1225.75			1225.75	245.15

Group Report For : Aroclor-1260

Component Name	Time [min]	Area [µV·s]	Amount [pg]	Multiplier	Dilution Factor	Conc. [ug/Kg - ug/L]	Conc./Peaks [ug/Kg - ug/L]
PCB1260#1	14.587	98735.05	98.80	1.0000	1	98.80	19.76
PCB1260#2	15.267	254839.01	204.49	1.0000	1	204.49	40.90
PCB1260#3	15.666	8789.53	13.27	1.0000	1	13.27	2.65
PCB1260#4	16.242	12236.75	17.39	1.0000	1	17.39	3.48
PCB1260#5	16.903	29383.57	20.36	1.0000	1	20.36	4.07
		403983.91	354.30			354.30	70.86

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: g:\gc06\chb\334b065.TX0

MOISTURE DATA

Percent Moisture Summary Report

Batch: 96865
Date: 11/24/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176248-001	15.5434	23.9600	23.4925	94	6
176248-002	15.4465	23.5327	23.3143	97	3
176248-003	14.9821	22.6910	22.5478	98	2
176248-004	15.3700	22.9022	22.3052	92	8
176248-005	15.0683	22.2974	21.7303	92	8
176249-016	15.5595	22.1219	20.7060	78	22
176249-017	15.2583	22.1430	20.9833	83	17
176249-019	15.3766	22.4577	20.5212	73	27
176249-020	15.2447	22.4425	21.1445	82	18
176250-010	15.5308	23.1413	21.7977	82	18
176250-011	15.5331	23.8455	21.9568	77	23
176250-012	15.3151	23.8502	21.9372	78	22
QC273791	15.4170	22.1651	21.8127	95	5
of 176248-001			RPD:	0.4%	6.2%

Curtis & Tompkins Laboratories Sample Batch Report

Curtis & Tompkins, Ltd.

Batch Number: 96865
Date Started: 24-NOV-2004
Batched by : Kristen Ann Carlyon

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
176248-001			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-002			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-003			Treadwell & Rollo	Soil	MOISTURE	02-DEC-2004
176248-004			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-005			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176249-016			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-017			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-019			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-020			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-010			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-011			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-012			Innovative Technic	Soil	MOISTURE	30-NOV-2004
QC273791	SDUP	of 176248-001		Soil	MOISTURE	

WET CHEMISTRY DEPARTMENT

DATA PACKAGE REVIEW CHECKLIST

Lab No: 96865 Analysis: MOISTURE

Matrix: Water ___ Soil ✓ Misc. ___ Other

I. Contents & Documentation

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		1. Sample prep information present & complete	☐	
☑	☐		2. Run logs present & complete	☐	
☑	☐		3. Sample raw data present	☐	
☑	☐		4. Standards LIMS ID's documented	☐	☐
☐	☐	☑	5. CAR present & complete (if necessary)	☐	☐
☑	☐		6. Analyst entries complete, legible, initialed		

II. Sample Results

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		7. All requested samples analyzed	☐	☐
☑	☐		8. All samples analyzed within hold	☐	☐
☑	☐		9. Units correct for sample matrix	☐	
☑	☐		10. Data transcribed correctly from raw to forms	☐	
☑	☐		11. All results within calibration range	☐	
☐	☐	☑	12. All dilutions in upper half of curve	☐	
☐	☐	☑	13. All matrix interferences documented	☐	

III. Batch QC & Calibration Checks

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐	☐	14. Method blank clean	☐	☐
☐	☐	☑	15. LCS/BS/BSD recoveries & RPD within QC limits	☐	☐
☑	☐	☐	16. Matrix QC performed on a sample in this batch? If not,	☐	
			☐ Insufficient sample volume available for matrix QC, or		
			☐ Other (describe) ___		
☑	☐	☐	17. Matrix QC recoveries &/or RPD within QC limits	☐	☐
☐	☐	☑	18. ICV recovery within QC limits	☐	
☐	☐	☑	19. CCV recoveries within QC limits	☐	

Comments:

☐ Additional Comments Attached

Analyst: By: D. Manuel Date: 11-24-04

Peer Review By: ___ Date: ___

Group Leader Approved: ___ Date: 11/24/04

11/23/04

96865

Sample	Ref.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	3	15.4086	—	15.4087	
176248-001	A	4	15.5434	23.9600	23.4925	Taken from Bside
176248-001DUP		46	15.4170	22.1651	21.8127	
-002		101	15.4465	23.5327	23.3143	
-003		16	14.9821	22.6910	22.5478	
-004		30	15.3700	22.9022	22.3052	
-005		134	15.0683	22.2974	21.7303	
176249-016	A	29	15.5595	22.1219	20.7060	COMP 1-3
-017		146	15.2583	22.1430	20.9833	COMP 4-6
~~-018~~		~~39~~	~~15.4996~~	~~23.0892~~	~~21.8674~~	~~Repeat~~ ~~COMP 8,9~~
-019		40	15.3766	22.4577	20.5272	COMP 10-12
-020		24	15.2447	22.4425	21.1245	COMP 13-15
176250-010	A	18	15.5308	23.1413	21.7477	COMP 1-3
011	A	177	15.5331	23.8455	21.9528	COMP 4-6
012	A	34	15.3151	23.8502	21.9372	COMP 7-9

Oven Temp: 104°C
Time In: 10:30 PM
Time Out: 10:30 A.M. On: 11-24-04

Continued on Page

Read and Understood By

Kristen Carlyon 11/23/04 Signed Date

Signed 11/24/04 Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 / -

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RSM				
103°C	11-2-04	RSM				
105°C	11-3-04	RSM				
104°C	11-4-04	RSM				
105°C	11-5-04	RSM				
103°C	11-8-04	RSM				
104	~~11-9-04~~	RSM				
105°C	11-10-04	RSM				
105°C	11-11-04	RSM				
105°C	11-12-04	RSM				
105°C	11-15-04	RSM				
105°C	11-16-04	RSM				
105°C	11-17-04	RSM				
104°C	11-18-04	RSM				
104°C	11-19-04	RSM				
103°C	11-22-04	RSM				
103°C	11-23-04	RSM				
103°C	11-24-04	RSM				

000069

PROJECT METTLER A-E 200 BALANCE

Notebook No. [illegible]

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RGM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RGM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RGM	35298

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
R. Manuel	11-22-04		

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Organochlorine Pesticides

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX154[0.5]	176248-001
DUP112304A	176248-002
BB3EX153[0.5]	176248-003
BB3EX151[0.5]	176248-004
BB3EX152[0.5]	176248-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
PESTICIDES (EPA 8081A)

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for five soil samples, requested for the above referenced project on 11/23/04. The samples were received cold and intact.

Pesticides (EPA 8081A):

Matrix spikes were performed on the sample BB3EX154[0.5] (176248-001) instead of the requested sample BB3EX152[0.5] (176248-005) for batch number 96829. The spiked sample for batch number 96997 was lost during the extraction process, therefore, no matrix spikes were reported for this analytical batch.

Low responses were observed for delta-BHC, 4,4'-DDT, and methoxychlor in the CCV analyzed 12/02/04 18:34; average CCV drift met method requirements. High responses were observed for a number of analytes in the CCV analyzed 11/29/04 14:15, the CCV analyzed 11/29/04 23:30, and the CCV analyzed 12/03/04 06:56; average CCV drift met method requirements.

Low surrogate recovery was observed for TCMX in the method blank for batch 96829; the corresponding decachlorobiphenyl surrogate recovery was within limits.

No other analytical problems were encountered.

Chain of Custody

176248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 28973 12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Metals	PCBs	Pesticides	VOCs	SVOCs	Mercury	Chlor. Herb.	TPH-d	TPH-g				Silica gel clean-up	Hold	Remarks
BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X												~~MS/MSD~~
DUP112304A		1242		X						1		X	X	X												
BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X				X		48 day TAT MS/MSD
BB3EX151[0.5]		1254		X						1		X	X	X												
BB3EX152[0.5]		1257		X						1		X	X	X												MS/MSD
TB112304A		1315		X			2								X											

Level IV data package
Sample all tubes from end labeled with a "B"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/23/04	1455	Tony Pope	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rolo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX154[0.5]	Batch#:	96829
Lab ID:	176248-001	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/29/04
Diln Fac:	1.000		

Moisture: 6%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	ND	1.8	0.68
gamma-Chlordane	ND	1.8	0.61
Methoxychlor	ND	18	
Toxaphene	ND	64	

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	98	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP112304A	Batch#:	96829
Lab ID:	176248-002	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/29/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.7	0.65
gamma-Chlordane	ND	1.7	0.58
Methoxychlor	ND	17	
Toxaphene	ND	61	

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	97	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX153[0.5]	Batch#:	96997
Lab ID:	176248-003	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/30/04
Basis:	dry	Analyzed:	12/03/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	ND	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	ND	1.7	0.64
gamma-Chlordane	ND	1.7	0.57
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	119	65-135
Decachlorobiphenyl	114	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX151[0.5]	Batch#:	96829
Lab ID:	176248-004	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/29/04
Diln Fac:	1.000		

Moisture: 8%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	32	
alpha-Chlordane	ND	1.8	0.68
gamma-Chlordane	ND	1.8	0.61
Methoxychlor	ND	18	
Toxaphene	ND	64	

Surrogate	%REC	Limits
TCMX	97	65-135
Decachlorobiphenyl	94	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX152[0.5]	Batch#:	96829
Lab ID:	176248-005	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/29/04
Diln Fac:	1.000		

Moisture: 8%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.6	
4,4'-DDE	ND	3.6	
Endrin	ND	3.6	
Endosulfan II	ND	3.6	
Endosulfan sulfate	ND	3.6	
4,4'-DDD	ND	3.6	
Endrin ketone	ND	3.6	
4,4'-DDT	ND	3.6	
Chlordane (Technical)	ND	33	
alpha-Chlordane	ND	1.8	0.70
gamma-Chlordane	ND	1.8	0.62
Methoxychlor	ND	18	
Toxaphene	ND	65	

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273650	Batch#:	96829
Matrix:	Soil	Prepared:	11/24/04
Units:	ug/Kg	Analyzed:	11/29/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	ND	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	ND	1.7	0.64
gamma-Chlordane	ND	1.7	0.57
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	62 *	65-135
Decachlorobiphenyl	82	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC274352	Batch#:	96997
Matrix:	Soil	Prepared:	11/30/04
Units:	ug/Kg	Analyzed:	12/02/04
Basis:	as received		

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND #	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	ND #	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	ND	1.7	0.72
gamma-Chlordane	ND	1.7	0.79
Methoxychlor	ND #	17	
Toxaphene	ND	61	

Surrogate	%REC	Limits
TCMX	69	65-135
Decachlorobiphenyl	71	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC273651	Batch#:	96829
Matrix:	Soil	Prepared:	11/24/04
Units:	ug/Kg	Analyzed:	11/29/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.74	11.57	69	65-135
Heptachlor	16.74	11.69	70	65-135
Aldrin	16.74	11.69	70	65-135
Dieldrin	16.74	11.62	69	65-135
Endrin	16.74	12.41	74	65-135
4,4'-DDT	16.74	12.76 #	76	65-135

Surrogate	%REC	Limits
TCMX	66	65-135
Decachlorobiphenyl	70	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC274353	Batch#:	96997
Matrix:	Soil	Prepared:	11/30/04
Units:	ug/Kg	Analyzed:	12/02/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.91	11.49	68	65-135
Heptachlor	16.91	12.07	71	65-135
Aldrin	16.91	11.69	69	65-135
Dieldrin	16.91	11.36	67	65-135
Endrin	16.91	12.19	72	65-135
4,4'-DDT	16.91	11.34 #	67	65-135

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	65	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX154[0.5]	Batch#:	96829
MSS Lab ID:	176248-001	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/24/04
Basis:	dry	Analyzed:	11/29/04
Diln Fac:	1.000		

Type:	MS	Moisture:	6%
Lab ID:	QC273771	Cleanup Method:	EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5638	17.97	17.24	96	65-135
Heptachlor	<0.7128	17.97	17.02	95	65-135
Aldrin	<0.5851	17.97	16.95	94	65-135
Dieldrin	<1.383	17.97	16.93	94	65-135
Endrin	<1.809	17.97	17.44	97	65-135
4,4'-DDT	2.233	17.97	18.08 #	88	65-135

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	95	65-135

Type:	MSD	Moisture:	6%
Lab ID:	QC273772	Cleanup Method:	EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	17.79	16.56	93	65-135	3	35
Heptachlor	17.79	15.60	88	65-135	8	35
Aldrin	17.79	16.28	91	65-135	3	35
Dieldrin	17.79	16.56	93	65-135	1	35
Endrin	17.79	17.94	101	65-135	4	35
4,4'-DDT	17.79	17.96 #	88	65-135	0	35

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	99	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: MCH
Calnum: 244483653001 Name: Type: (normal) Date: 30-NOV-2004 20:53 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	335_007	244483653007	pest_1	30-NOV-2004 20:53	04WS1628
2	335_008	244483653008	pest_2	30-NOV-2004 21:22	04WS1629
3	335_009	244483653009	pest_3	30-NOV-2004 21:51	04WS2051
4	335_010	244483653010	pest_4	30-NOV-2004 22:20	04WS2052
5	335_011	244483653011	pest_5	30-NOV-2004 22:49	04WS2053
6	335_012	244483653012	pest_6	30-NOV-2004 23:18	04WS1634
7	335_013	244483653013	pest_7	30-NOV-2004 23:47	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	13800	12367	11689	11726	11968	12679	12961	AVRG	R		8.028E-5		pg	12456	6	0.995	20	
gamma-BHC	A	12912	11271	10633	10543	10775	11282	11414	AVRG	R		8.880E-5		pg	11262	7	0.995	20	
beta-BHC	A	6548.0	5122.3	4725.1	4569.2	4642.9	4571.0	4259.8	AVRG	R		2.033E-4		pg	4919.8	15	0.995	20	
delta-BHC	A	16090	11642	10772	10532	10879	11389	11554	AVRG	R		8.448E-5		pg	11837	16	0.995	20	
Heptachlor	A	11350	10040	9759.9	9622.9	10034	10343	10367	AVRG	R		9.788E-5		pg	10217	6	0.995	20	
Aldrin	A	12018	10659	10138	9895.4	10226	10615	10586	AVRG	R		9.442E-5		pg	10591	7	0.995	20	
Heptachlor epoxide	A	12014	9895.6	9478.7	9143.2	9449.2	9655.9	9410.9	AVRG	R		1.014E-4		pg	9863.9	10	0.995	20	
gamma-Chlordane	A	11932	9886.9	9475.7	9176.5	9491.2	9843.8	9846.9	AVRG	R		1.005E-4		pg	9950.5	9	0.995	20	
alpha-Chlordane	A	11784	9599.6	9175.9	8811.3	9127.1	9382.7	9347.1	AVRG	R		1.041E-4		pg	9603.9	10	0.995	20	
4,4'-DDE	A	11192	9472.6	9022.3	8823.7	9310.0	10068	10502	AVRG	R		1.024E-4		pg	9770.1	9	0.995	20	
Endosulfan I	A	11553	9241.4	8616.4	8246.6	8506.1	8630.0	8363.2	AVRG	R		1.108E-4		pg	9022.3	13	0.995	20	
Dieldrin	A	11523	9876.3	9487.0	9286.6	9753.3	10423	10482	AVRG	R		9.883E-5		pg	10119	8	0.995	20	
Endrin	A	9511.1	7495.5	7360.9	7092.0	7432.6	7676.2	7700.6	AVRG	R		1.290E-4		pg	7752.7	10	0.995	20	
4,4'-DDD	A	9924.4	8034.6	7548.3	7267.0	7554.8	8060.1	8262.0	AVRG	R		1.236E-4		pg	8093.0	11	0.995	20	
Endosulfan II	A	11225	8243.7	7717.5	7320.8	7676.0	7974.7	8077.4	AVRG	R		1.202E-4		pg	8319.3	16	0.995	20	
4,4'-DDT	A	7851.3	6027.2	6308.3	6145.8	6736.7	7062.0	7592.5	AVRG	R		1.467E-4		pg	6817.7	10	0.995	20	
Methoxychlor	A	3313.6	2771.5	2869.5	2786.8	3068.3	3164.9	2830.2	AVRG	R		3.365E-4		pg	2972.1	7	0.995	20	
Endosulfan sulfate	A	9419.1	7129.3	6658.9	6285.8	6554.0	6756.0	7129.8	AVRG	R		1.402E-4		pg	7133.3	15	0.995	20	
Endrin ketone	A	10375	8078.3	7507.1	7080.0	7454.0	7765.7	7809.6	AVRG	R		1.248E-4		pg	8009.9	14	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: MCH
Calnum: 244483653001 Name: Type: (normal) Date: 30-NOV-2004 20:53 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
TCMX	A	8610.0	7981.7	7380.8	7318.5	7340.8	7644.1	7636.5	AVRG	R		1.298E-4		pg	7701.8	6	0.995	20	
Decachlorobiphenyl	A	5671.5	4948.1	5139.2	4781.0	5213.2	5237.9	6035.5	AVRG	R		1.891E-4		pg	5289.5	8	0.995	20	
alpha-BHC	B	14235	13092	12731	12368	12939	12962	13300	AVRG	R		7.640E-5		pg	13089	4	0.995	20	
gamma-BHC	B	12657	11546	11248	11013	11415	11439	11653	AVRG	R		8.645E-5		pg	11567	5	0.995	20	
beta-BHC	B	5621.5	4982.6	4851.0	4707.7	4771.5	4557.9	4367.7	AVRG	R		2.067E-4		pg	4837.1	8	0.995	20	
delta-BHC	B	14435	12106	11524	11345	11508	11759	11988	AVRG	R		8.268E-5		pg	12095	9	0.995	20	
Heptachlor	B	10516	9497.4	9431.3	9269.7	9822.2	9465.1	9513.5	AVRG	R		1.037E-4		pg	9644.9	4	0.995	20	
Aldrin	B	11790	10706	10435	10330	10366	10458	10425	AVRG	R		9.395E-5		pg	10644	5	0.995	20	
Heptachlor epoxide	B	11161	9849.5	9691.1	9612.4	9504.0	9642.3	9442.8	AVRG	R		1.016E-4		pg	9843.3	6	0.995	20	
gamma-Chlordane	B	11335	10096	9842.8	9833.7	9643.7	9945.2	9936.2	AVRG	R		9.910E-5		pg	10090	6	0.995	20	
alpha-Chlordane	B	11007	9647.1	9336.9	9434.9	9105.4	9365.3	9269.3	AVRG	R		1.042E-4		pg	9595.1	7	0.995	20	
4,4'-DDE	B	10606	9469.7	9441.8	9899.4	9760.6	10436	10400	AVRG	R		9.998E-5		pg	10002	5	0.995	20	
Endosulfan I	B	10467	9157.6	8850.7	8872.8	8547.8	8671.3	8435.3	AVRG	R		1.111E-4		pg	9000.4	8	0.995	20	
Dieldrin	B	10709	9571.8	9465.7	9791.5	9671.0	10198	10052	AVRG	R		1.008E-4		pg	9922.7	4	0.995	20	
Endrin	B	7921.3	7002.8	6879.2	6890.1	7132.9	6985.7	6778.9	AVRG	R		1.412E-4		pg	7084.4	5	0.995	20	
4,4'-DDD	B	8949.0	8402.9	8052.3	8174.0	7885.2	8410.8	8326.5	AVRG	R		1.203E-4		pg	8314.4	4	0.995	20	
Endosulfan II	B	9527.6	8497.0	8257.9	8403.1	8246.3	8609.2	8513.4	AVRG	R		1.166E-4		pg	8579.2	5	0.995	20	
4,4'-DDT	B	6661.6	5948.0	6296.2	6855.5	7134.6	7174.1	7426.0	AVRG	R		1.474E-4		pg	6785.1	8	0.995	20	
Methoxychlor	B	2821.9	2531.3	2699.5	3022.5	3133.9	2983.5	2632.2	AVRG	R		3.531E-4		pg	2832.1	8	0.995	20	
Endosulfan sulfate	B	8849.4	7391.3	7153.7	7158.8	7046.9	7336.8	7692.8	AVRG	R		1.330E-4		pg	7518.5	8	0.995	20	
Endrin ketone	B	11238	9153.7	8933.6	9062.4	8808.0	9144.0	8853.5	AVRG	R		1.074E-4		pg	9313.4	9	0.995	20	
TCMX	B	9153.8	8547.9	8335.0	8053.3	8488.7	8443.1	8513.1	AVRG	R		1.176E-4		pg	8505.0	4	0.995	20	
Decachlorobiphenyl	B	5209.3	4626.7	4901.6	5144.7	5305.3	4771.0	5141.0	AVRG	R		1.994E-4		pg	5014.2	5	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	10		20	
EPA 8081A	B	22	6		20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC21 Calname :
Calnum : 244483653001 Caldate : 30-NOV-2004 Caltype :

ICV 244483653016 (335_016) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	244483653016	01-DEC-2004	25.000	24.446	pg	-2	15
gamma-BHC	A	244483653016	01-DEC-2004	25.000	24.527	pg	-2	15
beta-BHC	A	244483653016	01-DEC-2004	25.000	23.883	pg	-4	15
delta-BHC	A	244483653016	01-DEC-2004	25.000	24.179	pg	-3	15
Heptachlor	A	244483653016	01-DEC-2004	25.000	25.023	pg	0	15
Aldrin	A	244483653016	01-DEC-2004	25.000	25.039	pg	0	15
Heptachlor epoxide	A	244483653016	01-DEC-2004	25.000	23.939	pg	-4	15
gamma-Chlordane	A	244483653016	01-DEC-2004	25.000	23.734	pg	-5	15
alpha-Chlordane	A	244483653016	01-DEC-2004	25.000	24.146	pg	-3	15
4,4'-DDE	A	244483653016	01-DEC-2004	25.000	23.647	pg	-5	15
Endosulfan I	A	244483653016	01-DEC-2004	25.000	24.297	pg	-3	15
Dieldrin	A	244483653016	01-DEC-2004	25.000	24.012	pg	-4	15
Endrin	A	244483653016	01-DEC-2004	25.000	24.104	pg	-4	15
4,4'-DDD	A	244483653016	01-DEC-2004	25.000	24.452	pg	-2	15
Endosulfan II	A	244483653016	01-DEC-2004	25.000	23.983	pg	-4	15
4,4'-DDT	A	244483653016	01-DEC-2004	25.000	23.640	pg	-5	15
Methoxychlor	A	244483653016	01-DEC-2004	25.000	26.372	pg	5	15
Endosulfan sulfate	A	244483653016	01-DEC-2004	25.000	24.127	pg	-3	15
Endrin ketone	A	244483653016	01-DEC-2004	25.000	24.329	pg	-3	15
alpha-BHC	B	244483653016	01-DEC-2004	25.000	23.096	pg	-8	15
gamma-BHC	B	244483653016	01-DEC-2004	25.000	23.394	pg	-6	15
beta-BHC	B	244483653016	01-DEC-2004	25.000	23.515	pg	-6	15
delta-BHC	B	244483653016	01-DEC-2004	25.000	23.368	pg	-7	15
Heptachlor	B	244483653016	01-DEC-2004	25.000	23.663	pg	-5	15
Aldrin	B	244483653016	01-DEC-2004	25.000	23.927	pg	-4	15
Heptachlor epoxide	B	244483653016	01-DEC-2004	25.000	23.190	pg	-7	15
gamma-Chlordane	B	244483653016	01-DEC-2004	25.000	22.864	pg	-9	15
alpha-Chlordane	B	244483653016	01-DEC-2004	25.000	23.343	pg	-7	15
4,4'-DDE	B	244483653016	01-DEC-2004	25.000	22.941	pg	-8	15
Endosulfan I	B	244483653016	01-DEC-2004	25.000	23.659	pg	-5	15
Dieldrin	B	244483653016	01-DEC-2004	25.000	23.254	pg	-7	15
Endrin	B	244483653016	01-DEC-2004	25.000	22.671	pg	-9	15
4,4'-DDD	B	244483653016	01-DEC-2004	25.000	23.688	pg	-5	15
Endosulfan II	B	244483653016	01-DEC-2004	25.000	23.531	pg	-6	15
4,4'-DDT	B	244483653016	01-DEC-2004	25.000	22.591	pg	-10	15
Methoxychlor	B	244483653016	01-DEC-2004	25.000	24.977	pg	0	15
Endosulfan sulfate	B	244483653016	01-DEC-2004	25.000	23.046	pg	-8	15
Endrin ketone	B	244483653016	01-DEC-2004	25.000	23.323	pg	-7	15

Method	Ch	Count	Avg	%D Limit	Flags
EPA 8081A	A	22	4	15	
EPA 8081A	B	22	7	15	

INITIAL CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804457447001 Name: Type: (normal) Date: 12-NOV-2004 23:01 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	317_018	804457447018	pest_1	12-NOV-2004 23:01	04WS1628
2	317_019	804457447019	pest_2	12-NOV-2004 23:29	04WS1629
3	317_020	804457447020	pest_3	12-NOV-2004 23:58	04WS2051
4	317_021	804457447021	pest_4	13-NOV-2004 00:26	04WS2052
5	317_022	804457447022	pest_5	13-NOV-2004 00:54	04WS2053
6	317_023	804457447023	pest_6	13-NOV-2004 01:22	04WS1634
7	317_024	804457447024	pest_7	13-NOV-2004 01:51	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	18000	17516	16837	14966	16508	16379	20530	AVRG	R		5.798E-5		pg	17248	10	0.995	20	
gamma-BHC	A	16980	16367	14951	13228	14736	14064	18369	AVRG	R		6.440E-5		pg	15528	12	0.995	20	
beta-BHC	A	7945.5	7314.2	6422.8	5506.1	6081.9	5384.3	6606.7	AVRG	R		1.547E-4		pg	6465.9	14	0.995	20	
delta-BHC	A	17579	16695	14912	12984	14843	14111	18518	AVRG	R		6.384E-5		pg	15663	13	0.995	20	
Heptachlor	A	14860	14903	13349	11361	12984	11941	16266	AVRG	R		7.317E-5		pg	13666	13	0.995	20	
Aldrin	A	15884	15492	13927	11779	13572	12399	16526	AVRG	R		7.030E-5		pg	14226	13	0.995	20	
Heptachlor epoxide	A	15054	14309	12829	10673	12526	11152	15027	AVRG	R		7.645E-5		pg	13081	14	0.995	20	
gamma-Chlordane	A	15049	14436	12739	10653	12672	11275	15603	AVRG	R		7.574E-5		pg	13204	14	0.995	20	
alpha-Chlordane	A	14966	14671	12408	10214	12149	10677	14656	AVRG	R		7.800E-5		pg	12820	15	0.995	20	
4,4'-DDE	A	14186	13759	12323	10512	13484	12440	13808	AVRG	R		7.734E-5		pg	12930	10	0.995	20	
Endosulfan I	A	13316	12862	11460	9481.7	11191	9738.3	13497	AVRG	R		8.584E-5		pg	11649	14	0.995	20	
Dieldrin	A	14351	14008	12475	10675	13410	12389	13959	AVRG	R		7.670E-5		pg	13038	10	0.995	20	
Endrin	A	12237	11989	10364	8555.1	10707	9898.0	11874	AVRG	R		9.256E-5		pg	10804	12	0.995	20	
4,4'-DDD	A	11514	11475	9861.1	8354.4	10514	9829.3	11975	AVRG	R		9.521E-5		pg	10503	12	0.995	20	
Endosulfan II	A	12700	12433	10844	8924.4	11098	10275	12245	AVRG	R		8.915E-5		pg	11217	12	0.995	20	
4,4'-DDT	A	10024	10464	8863.8	7355.4	9532.1	8878.0	11445	AVRG	R		1.052E-4		pg	9508.9	14	0.995	20	
Methoxychlor	A	4475.3	4731.2	3865.6	3376.8	4515.7	3588.9	3288.3	AVRG	R		2.514E-4		pg	3977.4	15	0.995	20	
Endosulfan sulfate	A	11375	11200	9235.1	7651.3	9537.4	8527.6	11242	AVRG	R		1.018E-4		pg	9824.1	15	0.995	20	
Endrin ketone	A	13034	13179	10871	9109.5	11607	10712	12662	AVRG	R		8.623E-5		pg	11596	13	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804457447001 Name: Type: (normal) Date: 12-NOV-2004 23:01 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
TCMX	A	11913	11247	10697	9223.8	10145	10102	11802	AVRG	R		9.317E-5		pg	10733	9	0.995	20	
Decachlorobiphenyl	A	8433.8	8442.7	7732.5	6329.1	7786.8	6615.9	9706.2	AVRG	R		1.272E-4		pg	7863.9	15	0.995	20	
alpha-BHC	B	23926	23618	22203	23310	23298	25681	24974	AVRG	R		4.191E-5		pg	23859	5	0.995	20	
gamma-BHC	B	22417	21634	20183	20888	20833	23139	22631	AVRG	R		4.614E-5		pg	21675	5	0.995	20	
beta-BHC	B	10416	9623.3	8790.5	8628.3	8430.4	8575.7	9361.7	AVRG	R		1.097E-4		pg	9118.0	8	0.995	20	
delta-BHC	B	22619	21333	19921	20746	20764	23129	22405	AVRG	R		4.638E-5		pg	21560	5	0.995	20	
Heptachlor	B	17678	16010	15189	15598	15477	17827	17683	AVRG	R		6.063E-5		pg	16495	7	0.995	20	
Aldrin	B	20824	20181	18901	19073	19215	21369	20295	AVRG	R		5.005E-5		pg	19980	5	0.995	20	
Heptachlor epoxide	B	19915	18694	18298	17935	18241	19476	18003	AVRG	R		5.361E-5		pg	18652	4	0.995	20	
gamma-Chlordane	B	20057	18535	17421	17480	17566	19950	18717	AVRG	R		5.396E-5		pg	18532	6	0.995	20	
alpha-Chlordane	B	19479	17994	17007	16833	16978	19044	17700	AVRG	R		5.598E-5		pg	17862	6	0.995	20	
4,4'-DDE	B	18126	17411	17103	18672	18870	18814	14181	AVRG	R		5.683E-5		pg	17597	9	0.995	20	
Endosulfan I	B	18449	17066	16061	15819	15793	17668	16178	AVRG	R		5.981E-5		pg	16719	6	0.995	20	
Dieldrin	B	18643	17776	17237	18616	18800	18491	14685	AVRG	R		5.634E-5		pg	17750	8	0.995	20	
Endrin	B	15929	14732	13818	14068	14294	15515	13178	AVRG	R		6.894E-5		pg	14505	7	0.995	20	
4,4'-DDD	B	14681	13681	13649	13800	14522	14657	12336	AVRG	R		7.192E-5		pg	13904	6	0.995	20	
Endosulfan II	B	16286	15249	14693	15023	15513	15657	13233	AVRG	R		6.625E-5		pg	15094	6	0.995	20	
4,4'-DDT	B	12980	12069	12289	12842	13559	14451	12518	AVRG	R		7.717E-5		pg	12958	6	0.995	20	
Methoxychlor	B	5973.5	5213.0	5545.1	5684.6	5587.3	5077.0	3243.5	AVRG	R		1.927E-4		pg	5189.1	17	0.995	20	
Endosulfan sulfate	B	14090	13118	12539	12536	12760	13722	12366	AVRG	R		7.681E-5		pg	13019	5	0.995	20	
Endrin ketone	B	17636	15451	17964	16181	19015	15637	13126	AVRG	R		6.086E-5		pg	16430	12	0.995	20	
TCMX	B	15917	14994	13782	14502	14462	15307	14334	AVRG	R		6.777E-5		pg	14757	5	0.995	20	
Decachlorobiphenyl	B	11186	10011	10268	10149	10843	11108	9377.4	AVRG	R		9.597E-5		pg	10420	6	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	13		20	
EPA 8081A	B	22	7		20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :

ICV 804457447026 (317_026) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	804457447026	13-NOV-2004	25.000	25.059	pg	0	15
gamma-BHC	A	804457447026	13-NOV-2004	25.000	24.857	pg	-1	15
beta-BHC	A	804457447026	13-NOV-2004	25.000	24.296	pg	-3	15
delta-BHC	A	804457447026	13-NOV-2004	25.000	24.913	pg	0	15
Heptachlor	A	804457447026	13-NOV-2004	25.000	24.806	pg	-1	15
Aldrin	A	804457447026	13-NOV-2004	25.000	24.868	pg	-1	15
Heptachlor epoxide	A	804457447026	13-NOV-2004	25.000	23.852	pg	-5	15
gamma-Chlordane	A	804457447026	13-NOV-2004	25.000	23.504	pg	-6	15
alpha-Chlordane	A	804457447026	13-NOV-2004	25.000	23.629	pg	-5	15
4,4'-DDE	A	804457447026	13-NOV-2004	25.000	23.673	pg	-5	15
Endosulfan I	A	804457447026	13-NOV-2004	25.000	24.887	pg	0	15
Dieldrin	A	804457447026	13-NOV-2004	25.000	23.950	pg	-4	15
Endrin	A	804457447026	13-NOV-2004	25.000	23.416	pg	-6	15
4,4'-DDD	A	804457447026	13-NOV-2004	25.000	23.604	pg	-6	15
Endosulfan II	A	804457447026	13-NOV-2004	25.000	23.827	pg	-5	15
4,4'-DDT	A	804457447026	13-NOV-2004	25.000	23.552	pg	-6	15
Methoxychlor	A	804457447026	13-NOV-2004	25.000	25.572	pg	2	15
Endosulfan sulfate	A	804457447026	13-NOV-2004	25.000	23.746	pg	-5	15
Endrin ketone	A	804457447026	13-NOV-2004	25.000	23.597	pg	-6	15
alpha-BHC	B	804457447026	13-NOV-2004	25.000	24.246	pg	-3	15
gamma-BHC	B	804457447026	13-NOV-2004	25.000	24.313	pg	-3	15
beta-BHC	B	804457447026	13-NOV-2004	25.000	23.109	pg	-8	15
delta-BHC	B	804457447026	13-NOV-2004	25.000	25.138	pg	1	15
Heptachlor	B	804457447026	13-NOV-2004	25.000	24.163	pg	-3	15
Aldrin	B	804457447026	13-NOV-2004	25.000	24.848	pg	-1	15
Heptachlor epoxide	B	804457447026	13-NOV-2004	25.000	23.630	pg	-5	15
gamma-Chlordane	B	804457447026	13-NOV-2004	25.000	23.729	pg	-5	15
alpha-Chlordane	B	804457447026	13-NOV-2004	25.000	24.034	pg	-4	15
4,4'-DDE	B	804457447026	13-NOV-2004	25.000	24.651	pg	-1	15
Endosulfan I	B	804457447026	13-NOV-2004	25.000	24.382	pg	-2	15
Dieldrin	B	804457447026	13-NOV-2004	25.000	24.525	pg	-2	15
Endrin	B	804457447026	13-NOV-2004	25.000	23.973	pg	-4	15
4,4'-DDD	B	804457447026	13-NOV-2004	25.000	22.820	pg	-9	15
Endosulfan II	B	804457447026	13-NOV-2004	25.000	24.459	pg	-2	15
4,4'-DDT	B	804457447026	13-NOV-2004	25.000	24.860	pg	-1	15
Methoxychlor	B	804457447026	13-NOV-2004	25.000	28.664	pg	15	15
Endosulfan sulfate	B	804457447026	13-NOV-2004	25.000	24.285	pg	-3	15
Endrin ketone	B	804457447026	13-NOV-2004	25.000	22.569	pg	-10	15

Method	Ch	Count	Avg	%D Limit	Flags
EPA 8081A	A	22	5	15	
EPA 8081A	B	22	5	15	

PERFORMANCE EVALUATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804481659007 Run Name: Injected: 29-NOV-2004 13:47
Filename: 334_007 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	499626.2
Endrin aldehyde	A	18336.49
Endrin ketone	A	16991.26

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	1091813.08
4,4'-DDE	A	6676.28
4,4'-DDD	A	18712.87

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	773998.38
Endrin aldehyde	B	50369.06
Endrin ketone	B	31997

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1786479.03
4,4'-DDE	B	8707.97
4,4'-DDD	B	46910.82

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804481659022 Run Name: Injected: 29-NOV-2004 23:02
Filename: 334_022 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	711676.82
Endrin aldehyde	A	12699.27
Endrin ketone	A	25383

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	1233780.98
4,4'-DDE	A	4208
4,4'-DDD	A	147246.09

4,4'-DDT Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	822915.12
Endrin aldehyde	B	14024.27
Endrin ketone	B	43344.79

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1348277.4
4,4'-DDE	B	8852.35
4,4'-DDD	B	168381.71

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: 'GC21 Gas Chromatograph #21 ECD
Seqnum: 244485881004 Run Name: Injected: 02-DEC-2004 10:43
Filename: 337_004 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	385783.93
Endrin aldehyde	A	6546.2
Endrin ketone	A	24497

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	646710.67
4,4'-DDE	A	2895
4,4'-DDD	A	57657.9

4,4'-DDT Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	286098
Endrin aldehyde	B	5931.69
Endrin ketone	B	24073.72

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	529394.56
4,4'-DDE	B	2781.74
4,4'-DDD	B	46529.3

4,4'-DDT Breakdown %: 9
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244485881018 Run Name: Injected: 02-DEC-2004 18:05
Filename: 337_018 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	374240.87
Endrin aldehyde	A	7487.53
Endrin ketone	A	28992.86

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	624522.83
4,4'-DDE	A	2960.16
4,4'-DDD	A	64851.72

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	326641.19
Endrin aldehyde	B	7099.85
Endrin ketone	B	31411.91

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	600939.95
4,4'-DDE	B	2951.61
4,4'-DDD	B	60153.83

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804485916035 Run Name: Injected: 03-DEC-2004 06:00
Filename: 337_035 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	500381.06
Endrin aldehyde	A	7400.5
Endrin ketone	A	21353

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	966898
4,4'-DDE	A	3083
4,4'-DDD	A	56776.97

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	791626
Endrin aldehyde	B	23090
Endrin ketone	B	46631.19

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1409044
4,4'-DDE	B	6300
4,4'-DDD	B	93946.4

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804485916042 Run Name: Injected: 03-DEC-2004 17:55
Filename: 337_042 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	528686.35
Endrin aldehyde	A	20009.17
Endrin ketone	A	26907.49

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	1024961.5
4,4'-DDE	A	5482.1
4,4'-DDD	A	73563.73

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	806921.91
Endrin aldehyde	B	10621.15
Endrin ketone	B	22565.62

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1488142.24
4,4'-DDE	B	4542
4,4'-DDD	B	57927.77

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804481659008 Filename : 334_008 Injected : 29-NOV-2004 14:15
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :
Standards: 04WS2052

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	18635	20.00000	21.60808	pg	8	15	
gamma-BHC	A	15528	16601	20.00000	21.38190	pg	7	15	
beta-BHC	A	6465.9	6984.9	20.00000	21.60527	pg	8	15	
delta-BHC	A	15663	16621	20.00000	21.22278	pg	6	15	
Heptachlor	A	13666	14715	20.00000	21.53423	pg	8	15	
Aldrin	A	14226	14795	20.00000	20.80002	pg	4	15	
Heptachlor epoxide	A	13081	13616	20.00000	20.81813	pg	4	15	
gamma-Chlordane	A	13204	13629	20.00000	20.64462	pg	3	15	
alpha-Chlordane	A	12820	13227	20.00000	20.63519	pg	3	15	
4,4'-DDE	A	12930	14034	40.00000	43.41556	pg	9	15	
Endosulfan I	A	11649	11891	20.00000	20.41456	pg	2	15	
Dieldrin	A	13038	13705	40.00000	42.04671	pg	5	15	
Endrin	A	10804	11299	40.00000	41.83310	pg	5	15	
4,4'-DDD	A	10503	10513	40.00000	40.03763	pg	0	15	
Endosulfan II	A	11217	11808	40.00000	42.10769	pg	5	15	
4,4'-DDT	A	9508.9	11163	40.00000	46.95814	pg	**17**	15	c+ ***
Methoxychlor	A	3977.4	5390.5	200.0000	271.0547	pg	**36**	15	c+ ***
Endosulfan sulfate	A	9824.1	10117	40.00000	41.19229	pg	3	15	
Endrin ketone	A	11596	12626	40.00000	43.55234	pg	9	15	
TCMX	A	10733	12016	40.00000	44.78273	pg	12	15	
Decachlorobiphenyl	A	7863.9	8965.3	40.00000	45.60236	pg	14	15	
alpha-BHC	B	23859	22783	20.00000	19.09822	pg	-5	15	
gamma-BHC	B	21675	20364	20.00000	18.79016	pg	-6	15	
beta-BHC	B	9118.0	8656.7	20.00000	18.98801	pg	-5	15	
delta-BHC	B	21560	19842	20.00000	18.40630	pg	-8	15	
Heptachlor	B	16495	14113	20.00000	17.11270	pg	-14	15	
Aldrin	B	19980	19429	20.00000	19.44898	pg	-3	15	
Heptachlor epoxide	B	18652	17459	20.00000	18.72121	pg	-6	15	
gamma-Chlordane	B	18532	18025	20.00000	19.45223	pg	-3	15	
alpha-Chlordane	B	17862	17399	20.00000	19.48138	pg	-3	15	
4,4'-DDE	B	17597	19930	40.00000	45.30331	pg	13	15	
Endosulfan I	B	16719	15843	20.00000	18.95244	pg	-5	15	
Dieldrin	B	17750	16985	40.00000	38.27697	pg	-4	15	
Endrin	B	14505	11970	40.00000	33.00837	pg	**-17**	15	c- ***
4,4'-DDD	B	13904	11986	40.00000	34.48158	pg	-14	15	
Endosulfan II	B	15094	15476	40.00000	41.01413	pg	3	15	
4,4'-DDT	B	12958	12908	40.00000	39.84532	pg	0	15	
Methoxychlor	B	5189.1	5110.1	200.0000	196.9545	pg	-2	15	
Endosulfan sulfate	B	13019	12807	40.00000	39.34859	pg	-2	15	
Endrin ketone	B	16430	14728	40.00000	35.85682	pg	-10	15	
TCMX	B	14757	15027	40.00000	40.73275	pg	2	15	
Decachlorobiphenyl	B	10420	12155	40.00000	46.66004	pg	**17**	15	c+
Average EPA 8081A	A			(count=22)			8	15	
Average EPA 8081A	B			(count=22)			7	15	

+=high bias -=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804481659023 Filename : 334_023 Injected : 29-NOV-2004 23:30
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	19451	10.00000	11.27753	pg	13	15	
gamma-BHC	A	15528	17376	10.00000	11.19037	pg	12	15	
beta-BHC	A	6465.9	7642.0	10.00000	11.81892	pg	**18**	15	c+ ***
delta-BHC	A	15663	17488	10.00000	11.16532	pg	12	15	
Heptachlor	A	13666	14983	10.00000	10.96332	pg	10	15	
Aldrin	A	14226	16071	10.00000	11.29713	pg	13	15	
Heptachlor epoxide	A	13081	14936	10.00000	11.41765	pg	14	15	
gamma-Chlordane	A	13204	15121	10.00000	11.45176	pg	15	15	
alpha-Chlordane	A	12820	14365	10.00000	11.20525	pg	12	15	
4,4'-DDE	A	12930	14911	20.00000	23.06320	pg	15	15	
Endosulfan I	A	11649	13059	10.00000	11.20992	pg	12	15	
Dieldrin	A	13038	14891	20.00000	22.84224	pg	14	15	
Endrin	A	10804	11958	20.00000	22.13752	pg	11	15	
4,4'-DDD	A	10503	13251	20.00000	25.23233	pg	**26**	15	c+ ***
Endosulfan II	A	11217	12818	20.00000	22.85379	pg	14	15	
4,4'-DDT	A	9508.9	9033.9	20.00000	19.00076	pg	-5	15	
Methoxychlor	A	3977.4	4298.1	100.0000	108.0630	pg	8	15	
Endosulfan sulfate	A	9824.1	11188	20.00000	22.77601	pg	14	15	
Endrin ketone	A	11596	13407	20.00000	23.12339	pg	**16**	15	c+ ***
TCMX	A	10733	12342	20.00000	22.99957	pg	15	15	
Decachlorobiphenyl	A	7863.9	8856.1	20.00000	22.52343	pg	13	15	
alpha-BHC	B	23859	24223	10.00000	10.15293	pg	2	15	
gamma-BHC	B	21675	21937	10.00000	10.12073	pg	1	15	
beta-BHC	B	9118.0	9774.7	10.00000	10.72021	pg	7	15	
delta-BHC	B	21560	21829	10.00000	10.12494	pg	1	15	
Heptachlor	B	16495	15900	10.00000	9.639588	pg	-4	15	
Aldrin	B	19980	20432	10.00000	10.22615	pg	2	15	
Heptachlor epoxide	B	18652	18947	10.00000	10.15820	pg	2	15	
gamma-Chlordane	B	18532	18977	10.00000	10.23970	pg	2	15	
alpha-Chlordane	B	17862	18618	10.00000	10.42303	pg	4	15	
4,4'-DDE	B	17597	19064	20.00000	21.66720	pg	8	15	
Endosulfan I	B	16719	17494	10.00000	10.46364	pg	5	15	
Dieldrin	B	17750	18621	20.00000	20.98130	pg	5	15	
Endrin	B	14505	14782	20.00000	20.38221	pg	2	15	
4,4'-DDD	B	13904	16075	20.00000	23.12377	pg	**16**	15	c+ ***
Endosulfan II	B	15094	16398	20.00000	21.72788	pg	9	15	
4,4'-DDT	B	12958	10891	20.00000	16.80880	pg	**-16**	15	c- ***
Methoxychlor	B	5189.1	5128.4	100.0000	98.83028	pg	-1	15	
Endosulfan sulfate	B	13019	13907	20.00000	21.36459	pg	7	15	
Endrin ketone	B	16430	16587	20.00000	20.19126	pg	1	15	
TCMX	B	14757	15676	20.00000	21.24612	pg	6	15	
Decachlorobiphenyl	B	10420	11953	20.00000	22.94224	pg	15	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				6	15	

+=high bias -=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : pest_4 IDF : 1.0
Seqnum : 244485881005 Filename : 337_005 Injected : 02-DEC-2004 11:19
Calnum : 244483653001 Caldate : 30-NOV-2004 Caltype :
Standards: 04WS2052

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12456	11281	20.00000	18.11431	pg	-9	15	
gamma-BHC	A	11262	10211	20.00000	18.13392	pg	-9	15	
beta-BHC	A	4919.8	4409.1	20.00000	17.92400	pg	-10	15	
delta-BHC	A	11837	10294	20.00000	17.39380	pg	-13	15	
Heptachlor	A	10217	9674.3	20.00000	18.93837	pg	-5	15	
Aldrin	A	10591	9781.9	20.00000	18.47196	pg	-8	15	
Heptachlor epoxide	A	9863.9	9074.3	20.00000	18.39891	pg	-8	15	
gamma-Chlordane	A	9950.5	9164.2	20.00000	18.41966	pg	-8	15	
alpha-Chlordane	A	9603.9	8776.9	20.00000	18.27779	pg	-9	15	
4,4'-DDE	A	9770.1	8760.9	40.00000	35.86818	pg	-10	15	
Endosulfan I	A	9022.3	8229.2	20.00000	18.24184	pg	-9	15	
Dieldrin	A	10119	9203.2	40.00000	36.38058	pg	-9	15	
Endrin	A	7752.7	7431.5	40.00000	38.34285	pg	-4	15	
4,4'-DDD	A	8093.0	7205.9	40.00000	35.61516	pg	-11	15	
Endosulfan II	A	8319.3	7262.3	40.00000	34.91791	pg	-13	15	
4,4'-DDT	A	6817.7	6140.0	40.00000	36.02375	pg	-10	15	
Methoxychlor	A	2972.1	2771.6	200.0000	186.5066	pg	-7	15	
Endosulfan sulfate	A	7133.3	6234.0	40.00000	34.95723	pg	-13	15	
Endrin ketone	A	8009.9	6977.0	40.00000	34.84169	pg	-13	15	
TCMX	A	7701.8	6878.3	40.00000	35.72317	pg	-11	15	
Decachlorobiphenyl	A	5289.5	4937.6	40.00000	37.33924	pg	-7	15	
alpha-BHC	B	13089	11664	20.00000	17.82124	pg	-11	15	
gamma-BHC	B	11567	10343	20.00000	17.88365	pg	-11	15	
beta-BHC	B	4837.1	4350.8	20.00000	17.98940	pg	-10	15	
delta-BHC	B	12095	10458	20.00000	17.29279	pg	-14	15	
Heptachlor	B	9644.9	9025.3	20.00000	18.71508	pg	-6	15	
Aldrin	B	10644	9424.4	20.00000	17.70792	pg	-11	15	
Heptachlor epoxide	B	9843.3	8664.9	20.00000	17.60579	pg	-12	15	
gamma-Chlordane	B	10090	8760.4	20.00000	17.36385	pg	-13	15	
alpha-Chlordane	B	9595.1	8298.5	20.00000	17.29745	pg	-14	15	
4,4'-DDE	B	10002	8602.1	40.00000	34.40187	pg	-14	15	
Endosulfan I	B	9000.4	7780.0	20.00000	17.28812	pg	-14	15	
Dieldrin	B	9922.7	8631.1	40.00000	34.79334	pg	-13	15	
Endrin	B	7084.4	6771.7	40.00000	38.23415	pg	-4	15	
4,4'-DDD	B	8314.4	6932.6	40.00000	33.35247	pg	**-17**	15	c- ***
Endosulfan II	B	8579.2	7284.3	40.00000	33.96229	pg	-15	15	
4,4'-DDT	B	6785.1	6402.0	40.00000	37.74109	pg	-6	15	
Methoxychlor	B	2832.1	2801.2	200.0000	197.8157	pg	-1	15	
Endosulfan sulfate	B	7518.5	6250.6	40.00000	33.25455	pg	**-17**	15	c- ***
Endrin ketone	B	9313.4	7649.7	40.00000	32.85469	pg	**-18**	15	c- ***
TCMX	B	8505.0	7605.0	40.00000	35.76724	pg	-11	15	
Decachlorobiphenyl	B	5014.2	5051.1	40.00000	40.29415	pg	1	15	
Average EPA 8081A	A		(count=22)				10	15	
Average EPA 8081A	B		(count=22)				11	15	

-=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : pest_3 IDF : 1.0
Seqnum : 244485881019 Filename : 337_019 Injected : 02-DEC-2004 18:34
Calnum : 244483653001 Caldate : 30-NOV-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12456	10902	10.00000	8.752445	pg	-12	15	
gamma-BHC	A	11262	9935.3	10.00000	8.822198	pg	-12	15	
beta-BHC	A	4919.8	4278.0	10.00000	8.695451	pg	-13	15	
delta-BHC	A	11837	9984.9	10.00000	8.435569	pg	-16	15	c- ***
Heptachlor	A	10217	9124.2	10.00000	8.930792	pg	-11	15	
Aldrin	A	10591	9436.0	10.00000	8.909401	pg	-11	15	
Heptachlor epoxide	A	9863.9	8882.2	10.00000	9.004780	pg	-10	15	
gamma-Chlordane	A	9950.5	8844.3	10.00000	8.888288	pg	-11	15	
alpha-Chlordane	A	9603.9	8563.4	10.00000	8.916510	pg	-11	15	
4,4'-DDE	A	9770.1	8359.8	20.00000	17.11304	pg	-14	15	
Endosulfan I	A	9022.3	8292.9	10.00000	9.191569	pg	-8	15	
Dieldrin	A	10119	8827.9	20.00000	17.44857	pg	-13	15	
Endrin	A	7752.7	6685.4	20.00000	17.24671	pg	-14	15	
4,4'-DDD	A	8093.0	7205.5	20.00000	17.80668	pg	-11	15	
Endosulfan II	A	8319.3	7222.9	20.00000	17.36421	pg	-13	15	
4,4'-DDT	A	6817.7	5505.5	20.00000	16.15068	pg	-19	15	c- ***
Methoxychlor	A	2972.1	2486.6	100.0000	83.66210	pg	-16	15	c- ***
Endosulfan sulfate	A	7133.3	6192.4	20.00000	17.36209	pg	-13	15	
Endrin ketone	A	8009.9	7389.3	20.00000	18.45040	pg	-8	15	
TCMX	A	7701.8	6740.9	20.00000	17.50491	pg	-12	15	
Decachlorobiphenyl	A	5289.5	6854.0	20.00000	25.91550	pg	30	15	c+
alpha-BHC	B	13089	9833.7	10.00000	7.512666	pg	-25	15	c- ***
gamma-BHC	B	11567	8831.2	10.00000	7.634732	pg	-24	15	c- ***
beta-BHC	B	4837.1	3847.9	10.00000	7.954998	pg	-20	15	c- ***
delta-BHC	B	12095	9080.3	10.00000	7.507455	pg	-25	15	c- ***
Heptachlor	B	9644.9	7629.4	10.00000	7.910256	pg	-21	15	c- ***
Aldrin	B	10644	8407.9	10.00000	7.898965	pg	-21	15	c- ***
Heptachlor epoxide	B	9843.3	7842.6	10.00000	7.967408	pg	-20	15	c- ***
gamma-Chlordane	B	10090	7990.5	10.00000	7.918968	pg	-21	15	c- ***
alpha-Chlordane	B	9595.1	7610.1	10.00000	7.931274	pg	-21	15	c- ***
4,4'-DDE	B	10002	7525.8	20.00000	15.04866	pg	-25	15	c- ***
Endosulfan I	B	9000.4	7180.5	10.00000	7.977952	pg	-20	15	c- ***
Dieldrin	B	9922.7	7713.7	20.00000	15.54749	pg	-22	15	c- ***
Endrin	B	7084.4	5460.1	20.00000	15.41443	pg	-23	15	c- ***
4,4'-DDD	B	8314.4	6441.3	20.00000	15.49421	pg	-23	15	c- ***
Endosulfan II	B	8579.2	6586.3	20.00000	15.35396	pg	-23	15	c- ***
4,4'-DDT	B	6785.1	5100.6	20.00000	15.03469	pg	-25	15	c- ***
Methoxychlor	B	2832.1	2218.1	100.0000	78.31998	pg	-22	15	c- ***
Endosulfan sulfate	B	7518.5	5697.6	20.00000	15.15614	pg	-24	15	c- ***
Endrin ketone	B	9313.4	7120.5	20.00000	15.29081	pg	-24	15	c- ***
TCMX	B	8505.0	6379.0	20.00000	15.00057	pg	-25	15	c-
Decachlorobiphenyl	B	5014.2	4943.1	20.00000	19.71613	pg	-1	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				22	15	ac

+=high bias -=low bias ac=average CCV drift out c=CCV

CONTINUING CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : ccv IDF : 1.0
Seqnum : 804485916037 Filename : 337_037 Injected : 03-DEC-2004 06:56
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :
Standards: 04WS2052

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	16252	20.00000	18.84464	pg	-6	15	
gamma-BHC	A	15528	14608	20.00000	18.81539	pg	-6	15	
beta-BHC	A	6465.9	6183.5	20.00000	19.12646	pg	-4	15	
delta-BHC	A	15663	14624	20.00000	18.67259	pg	-7	15	
Heptachlor	A	13666	13237	20.00000	19.37108	pg	-3	15	
Aldrin	A	14226	13275	20.00000	18.66317	pg	-7	15	
Heptachlor epoxide	A	13081	12507	20.00000	19.12258	pg	-4	15	
gamma-Chlordane	A	13204	12519	20.00000	18.96253	pg	-5	15	
alpha-Chlordane	A	12820	11984	20.00000	18.69523	pg	-7	15	
4,4'-DDE	A	12930	12863	40.00000	39.79293	pg	-1	15	
Endosulfan I	A	11649	10486	20.00000	18.00305	pg	-10	15	
Dieldrin	A	13038	12848	40.00000	39.41808	pg	-1	15	
Endrin	A	10804	11291	40.00000	41.80513	pg	5	15	
4,4'-DDD	A	10503	10308	40.00000	39.25552	pg	-2	15	
Endosulfan II	A	11217	10827	40.00000	38.60861	pg	-3	15	
4,4'-DDT	A	9508.9	9809.2	40.00000	41.26312	pg	3	15	
Methoxychlor	A	3977.4	5073.1	200.0000	255.0950	pg	**28**	15	c+ ***
Endosulfan sulfate	A	9824.1	9689.9	40.00000	39.45366	pg	-1	15	
Endrin ketone	A	11596	11956	40.00000	41.23956	pg	3	15	
TCMX	A	10733	10164	40.00000	37.88109	pg	-5	15	
Decachlorobiphenyl	A	7863.9	7690.9	40.00000	39.12048	pg	-2	15	
alpha-BHC	B	23859	24060	20.00000	20.16891	pg	1	15	
gamma-BHC	B	21675	21657	20.00000	19.98312	pg	0	15	
beta-BHC	B	9118.0	9041.8	20.00000	19.83285	pg	-1	15	
delta-BHC	B	21560	21891	20.00000	20.30722	pg	2	15	
Heptachlor	B	16495	16581	20.00000	20.10471	pg	1	15	
Aldrin	B	19980	19971	20.00000	19.99094	pg	0	15	
Heptachlor epoxide	B	18652	18511	20.00000	19.84955	pg	-1	15	
gamma-Chlordane	B	18532	18780	20.00000	20.26689	pg	1	15	
alpha-Chlordane	B	17862	18022	20.00000	20.17842	pg	1	15	
4,4'-DDE	B	17597	20303	40.00000	46.15099	pg	15	15	
Endosulfan I	B	16719	16893	20.00000	20.20789	pg	1	15	
Dieldrin	B	17750	20147	40.00000	45.40205	pg	14	15	
Endrin	B	14505	16328	40.00000	45.02644	pg	13	15	
4,4'-DDD	B	13904	16165	40.00000	46.50489	pg	**16**	15	c+ ***
Endosulfan II	B	15094	16964	40.00000	44.95695	pg	12	15	
4,4'-DDT	B	12958	13908	40.00000	42.93217	pg	7	15	
Methoxychlor	B	5189.1	6329.7	200.0000	243.9606	pg	**22**	15	c+ ***
Endosulfan sulfate	B	13019	14324	40.00000	44.01051	pg	10	15	
Endrin ketone	B	16430	17869	40.00000	43.50301	pg	9	15	
TCMX	B	14757	15267	40.00000	41.38200	pg	3	15	
Decachlorobiphenyl	B	10420	12842	40.00000	49.29671	pg	**23**	15	c+
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804485916043 Filename : 337_043 Injected : 03-DEC-2004 18:23
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	15379	10.00000	8.916239	pg	-11	15	
gamma-BHC	A	15528	13930	10.00000	8.970832	pg	-10	15	
beta-BHC	A	6465.9	6081.0	10.00000	9.404639	pg	-6	15	
delta-BHC	A	15663	13904	10.00000	8.876897	pg	-11	15	
Heptachlor	A	13666	12506	10.00000	9.151203	pg	-8	15	
Aldrin	A	14226	12863	10.00000	9.042213	pg	-10	15	
Heptachlor epoxide	A	13081	12081	10.00000	9.235326	pg	-8	15	
gamma-Chlordane	A	13204	12024	10.00000	9.106678	pg	-9	15	
alpha-Chlordane	A	12820	11714	10.00000	9.137535	pg	-9	15	
4,4'-DDE	A	12930	11907	20.00000	18.41782	pg	-8	15	
Endosulfan I	A	11649	10249	10.00000	8.798073	pg	-12	15	
Dieldrin	A	13038	11817	20.00000	18.12643	pg	-9	15	
Endrin	A	10804	10017	20.00000	18.54451	pg	-7	15	
4,4'-DDD	A	10503	9766.1	20.00000	18.59621	pg	-7	15	
Endosulfan II	A	11217	10140	20.00000	18.07928	pg	-10	15	
4,4'-DDT	A	9508.9	8549.2	20.00000	17.98149	pg	-10	15	
Methoxychlor	A	3977.4	3937.8	100.0000	99.00375	pg	-1	15	
Endosulfan sulfate	A	9824.1	8937.9	20.00000	18.19600	pg	-9	15	
Endrin ketone	A	11596	10958	20.00000	18.89836	pg	-6	15	
TCMX	A	10733	9607.2	20.00000	17.90256	pg	-10	15	
Decachlorobiphenyl	A	7863.9	7668.4	20.00000	19.50289	pg	-2	15	
alpha-BHC	B	23859	22126	10.00000	9.273986	pg	-7	15	
gamma-BHC	B	21675	20035	10.00000	9.243083	pg	-8	15	
beta-BHC	B	9118.0	8837.0	10.00000	9.691747	pg	-3	15	
delta-BHC	B	21560	20008	10.00000	9.280393	pg	-7	15	
Heptachlor	B	16495	15375	10.00000	9.321470	pg	-7	15	
Aldrin	B	19980	18977	10.00000	9.498063	pg	-5	15	
Heptachlor epoxide	B	18652	17679	10.00000	9.478571	pg	-5	15	
gamma-Chlordane	B	18532	17784	10.00000	9.596430	pg	-4	15	
alpha-Chlordane	B	17862	17218	10.00000	9.639095	pg	-4	15	
4,4'-DDE	B	17597	17703	20.00000	20.12071	pg	1	15	
Endosulfan I	B	16719	16191	10.00000	9.683858	pg	-3	15	
Dieldrin	B	17750	17294	20.00000	19.48698	pg	-3	15	
Endrin	B	14505	14087	20.00000	19.42411	pg	-3	15	
4,4'-DDD	B	13904	14081	20.00000	20.25491	pg	1	15	
Endosulfan II	B	15094	15155	20.00000	20.08094	pg	0	15	
4,4'-DDT	B	12958	12438	20.00000	19.19738	pg	-4	15	
Methoxychlor	B	5189.1	5826.3	100.0000	112.2798	pg	12	15	
Endosulfan sulfate	B	13019	13247	20.00000	20.35019	pg	2	15	
Endrin ketone	B	16430	15924	20.00000	19.38359	pg	-3	15	
TCMX	B	14757	14323	20.00000	19.41261	pg	-3	15	
Decachlorobiphenyl	B	10420	11733	20.00000	22.52030	pg	13	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				4	15	

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804457447 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 12-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
006	317_006	X				12-NOV-2004 16:07	1.0					1	
007	317_007	X	pest_4			12-NOV-2004 16:35	1.0					2	
008	317_008	X	ccv			12-NOV-2004 17:03	1.0					2	
016	317_016	PEM				12-NOV-2004 22:05	1.0		1			1	
017	317_017	X	hex			12-NOV-2004 22:33	1.0						
018	317_018	ICAL	pest_1			12-NOV-2004 23:01	1.0					3	
019	317_019	ICAL	pest_2			12-NOV-2004 23:29	1.0					4	
020	317_020	ICAL	pest_3			12-NOV-2004 23:58	1.0					5	
021	317_021	ICAL	pest_4			13-NOV-2004 00:26	1.0					2	
022	317_022	ICAL	pest_5			13-NOV-2004 00:54	1.0					6	
023	317_023	ICAL	pest_6			13-NOV-2004 01:22	1.0					7	
024	317_024	ICAL	pest_7			13-NOV-2004 01:51	1.0					8	
026	317_026	ICV				13-NOV-2004 02:47	1.0		1			9	
027	317_027	X	icv			13-NOV-2004 03:15	1.0					9	

35

Stds used: 1=04WS1614 2=04WS2052 3=04WS1628 4=04WS1629 5=04WS2051 6=04WS2053 7=04WS1634 8=04WS1635 9=04WS2099

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804481659 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 29-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
004	334_004	X	pem			29-NOV-2004 11:39	1.0					1	
005	334_005	X	pem			29-NOV-2004 12:16	1.0					1	
006	334_006	X	ccv			29-NOV-2004 13:18	1.0					2	
007	334_007	PEM				29-NOV-2004 13:47	1.0	1.0			1	1	
008	334_008	CCV	pest_4			29-NOV-2004 14:15	1.0	1.0	3		1	2	
011	334_011	BLANK	QC273650	96829	Soil	29-NOV-2004 15:54	1.0	0.6702	2		1		
012	334_012	LCS	QC273651	96829	Soil	29-NOV-2004 16:23	1.0	0.6698	8		1		
013	334_013	MSS	176248-001	96829	Soil	29-NOV-2004 18:48	1.0	0.6645	2	1	1		
014	334_014	SAMPLE	176248-002	96829	Soil	29-NOV-2004 19:17	1.0	0.6588	2		1		
015	334_015	SAMPLE	176248-004	96829	Soil	29-NOV-2004 19:45	1.0	0.6579	2		1		
016	334_016	SAMPLE	176248-005	96829	Soil	29-NOV-2004 20:13	1.0	0.6667	2		1		
017	334_017	BLANK	QC274112	96940	Soil	29-NOV-2004 20:41	1.0	0.6662	2		1		
018	334_018	LCS	QC274113	96940	Soil	29-NOV-2004 21:09	1.0	0.6671	8		1		
019	334_019	MS	QC273771	96829	Soil	29-NOV-2004 21:38	1.0	0.6757	8		1		
020	334_020	MSD	QC273772	96829	Soil	29-NOV-2004 22:06	1.0	0.6689	8	2	1		
022	334_022	PEM				29-NOV-2004 23:02	1.0	1.0			1	1	
023	334_023	CCV	pest_3			29-NOV-2004 23:30	1.0	1.0	5		1	3	
024	334_024	X	ccv			29-NOV-2004 23:59	1.0	1.0			1	3	ac
025	334_025	X	ccv			30-NOV-2004 00:27	1.0					4	
026	334_026	PEM				30-NOV-2004 00:55	1.0					1	
028	334_028	SAMPLE	176249-016	96940	Soil	30-NOV-2004 01:51	10.0	0.6658	1		1		
029	334_029	MSS	176249-017	96940	Soil	30-NOV-2004 02:20	5.0	0.6739	1	1	1		
030	334_030	SAMPLE	176249-018	96940	Soil	30-NOV-2004 02:48	10.0	0.6623	1		1		
031	334_031	SAMPLE	176249-019	96940	Soil	30-NOV-2004 03:16	5.0	0.6725	1		1		
032	334_032	SAMPLE	176249-020	96940	Soil	30-NOV-2004 03:44	20.0	0.6702	1		1		
033	334_033	SAMPLE	176250-010	96940	Soil	30-NOV-2004 04:12	10.0	0.6667	2		1		
034	334_034	SAMPLE	176250-011	96940	Soil	30-NOV-2004 04:41	5.0	0.6662	1		1		
035	334_035	SAMPLE	176250-012	96940	Soil	30-NOV-2004 05:09	10.0	0.668	1		1		
036	334_036	MS	QC274114	96940	Soil	30-NOV-2004 05:37	5.0	0.6702	6	5	1		
037	334_037	MSD	QC274115	96940	Soil	30-NOV-2004 06:05	5.0	0.6702	6	1	1		

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS2053
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804481659 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 29-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	334_039	X	pem			30-NOV-2004 07:02	1.0	1.0			1	1	
040	334_040	X	pest_4			30-NOV-2004 07:30	1.0	1.0			1	2	
041	334_041	CCV	ccv			30-NOV-2004 07:58	1.0	1.0	4		1	2	
042	334_042	PEM	pem			30-NOV-2004 08:26	1.0	1.0			1	1	
044	334_044	BLANK	QC273605	96820	Water	30-NOV-2004 12:28	1.0	0.01			1		
045	334_045	BS	QC273606	96820	Water	30-NOV-2004 12:57	1.0	0.01	4	5	1		
046	334_046	BSD	QC273607	96820	Water	30-NOV-2004 13:25	1.0	0.01	4	4	1		
047	334_047	BLANK	QC273945	96901	Water	30-NOV-2004 14:37	1.0	0.01			1		
048	334_048	BS	QC273946	96901	Water	30-NOV-2004 15:05	1.0	0.01	4	3	1		
049	334_049	BSD	QC273947	96901	Water	30-NOV-2004 15:33	1.0	0.01	4		1		
051	334_051	PEM				30-NOV-2004 16:29	1.0	1.0			1	1	
052	334_052	CCV	pest_3			30-NOV-2004 16:58	1.0	1.0			1	3	
053	334_053	X	ccv			30-NOV-2004 18:33	1.0					3	
054	334_054	X	ccv			30-NOV-2004 19:02	1.0					4	
055	334_055	X	pem			30-NOV-2004 19:30	1.0					1	
058	334_058	SAMPLE	176218-001	96901	Water	30-NOV-2004 20:55	1.0	0.009434	26		1	>ac	
059	334_059	SAMPLE	176218-006	96901	Water	30-NOV-2004 21:23	1.0	0.009434	26		1	>ac	
060	334_060	SAMPLE	176218-007	96901	Water	30-NOV-2004 21:51	1.0	0.009434	26		1	>ac	
061	334_061	SAMPLE	176218-008	96901	Water	30-NOV-2004 22:19	1.0	0.009434	26		1	>ac	
062	334_062	SAMPLE	176218-010	96901	Water	30-NOV-2004 22:48	1.0	0.009434	26		1	>ac	
063	334_063	SAMPLE	176218-012	96901	Water	30-NOV-2004 23:16	1.0	0.009615	26		1	>ac	
064	334_064	SAMPLE	176218-014	96901	Water	30-NOV-2004 23:44	1.0	0.009804	26		1	>ac	
065	334_065	SAMPLE	176238-003	96901	Water	01-DEC-2004 00:12	1.0						
066	334_066	SAMPLE	176257-002	96901	Water	01-DEC-2004 00:40	1.0	0.009615	26		1	>ac	
068	334_068	PEM				01-DEC-2004 01:37	1.0	1.0			1	1	
069	334_069	CCV	pest_4			01-DEC-2004 02:05	1.0	1.0	26		1	2 ac	
070	334_070	X	ccv			01-DEC-2004 02:33	1.0					2	
071	334_071	X	pem			01-DEC-2004 03:01	1.0					1	
082	334_082	PEM				01-DEC-2004 08:10	1.0	1.0			1	1	
083	334_083	CCV	pest_3			01-DEC-2004 08:39	1.0	1.0	22		1	3 ac	

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS2053
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804481659 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 29-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
084	334_084	X	ccv			01-DEC-2004 09:07	1.0			3	
085	334_085	X	ccv			01-DEC-2004 09:35	1.0			4	

38

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS2053
Flags used: >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 244483653 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 30-NOV-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
006	335_006	X	hex			30-NOV-2004 20:24	1.0						
007	335_007	ICAL	pest_1			30-NOV-2004 20:53	1.0					1	
008	335_008	ICAL	pest_2			30-NOV-2004 21:22	1.0					2	
009	335_009	ICAL	pest_3			30-NOV-2004 21:51	1.0					3	
010	335_010	ICAL	pest_4			30-NOV-2004 22:20	1.0					4	
011	335_011	ICAL	pest_5			30-NOV-2004 22:49	1.0					5	
012	335_012	ICAL	pest_6			30-NOV-2004 23:18	1.0					6	
013	335_013	ICAL	pest_7			30-NOV-2004 23:47	1.0					7	
015	335_015	X				01-DEC-2004 00:45	1.0					8	
016	335_016	ICV	icv			01-DEC-2004 01:14	1.0		1			8	
018	335_018	PEM				01-DEC-2004 12:23	1.0		1			9	

39

Stds used: 1=04WS1628 2=04WS1629 3=04WS2051 4=04WS2052 5=04WS2053 6=04WS1634 7=04WS1635 8=04WS2099 9=04WS2193

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 244485881 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 02-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
003	337_003	X	pem			02-DEC-2004 10:01	1.0	1.0			1	1	
004	337_004	PEM				02-DEC-2004 10:43	1.0	1.0			1	1	
005	337_005	CCV	pest_4			02-DEC-2004 11:19	1.0	1.0	5		1	2	
006	337_006	X	ccv			02-DEC-2004 11:48	1.0					2	
008	337_008	BLANK	QC274352	96997	Soil	02-DEC-2004 13:01	1.0	0.6761	24		1	>ac	
009	337_009	LCS	QC274353	96997	Soil	02-DEC-2004 13:30	1.0	0.6766	24		1	>ac	
010	337_010	SAMPLE	176248-003	96997	Soil	02-DEC-2004 14:02	1.0	0.6562	22		1	>ac	
011	337_011	BLANK	QC274472	97030	Soil	02-DEC-2004 14:31	1.0	0.6667	24		1	>ac	
012	337_012	BLANK	QC274512	97040	Water	02-DEC-2004 15:00	1.0	0.01	24		1	>ac	
013	337_013	LCS	QC274473	97030	Soil	02-DEC-2004 15:29	1.0	0.6568	24		1	>ac	
014	337_014	BS	QC274513	97040	Water	02-DEC-2004 15:58	1.0	0.01	24	1	1	>ac	
015	337_015	BSD	QC274514	97040	Water	02-DEC-2004 16:28	1.0	0.01	24		1	>ac	
016	337_016	LCS	QC274353	96997	Soil	02-DEC-2004 17:07	1.0	0.6766	24		1	>ac	
018	337_018	PEM				02-DEC-2004 18:05	1.0	1.0			1	1	
019	337_019	CCV	pest_3			02-DEC-2004 18:34	1.0	1.0	23		1	3 ac	
020	337_020	X	ccv			02-DEC-2004 19:03	1.0					3	
021	337_021	X	ccv			02-DEC-2004 19:32	1.0					4	
022	337_022	PEM				02-DEC-2004 20:01	1.0					1	
024	337_024	SAMPLE	176181-003	96901	Water	02-DEC-2004 20:59	1.0	0.009901	23	2	1	<ac	
025	337_025	SAMPLE	176238-003	96901	Water	02-DEC-2004 21:28	1.0	0.01053	23		1	<ac	
026	337_026	SAMPLE	176305-003	97040	Water	02-DEC-2004 21:58	1.0	0.01111	23	1	1	<ac	
027	337_027	SAMPLE	176305-004	97040	Water	02-DEC-2004 22:27	1.0	0.01111	23		1	<ac	
028	337_028	SAMPLE	176305-005	97040	Water	02-DEC-2004 22:56	1.0	0.01111	23		1	<ac	
029	337_029	SAMPLE	176313-001	97040	Water	02-DEC-2004 23:25	1.0	0.01053	23		1	<ac	
031	337_031	PEM				03-DEC-2004 00:23	1.0	1.0			1	1	
032	337_032	CCV	pest_4			03-DEC-2004 00:52	1.0	1.0	3		1	2	
033	337_033	X	ccv			03-DEC-2004 01:21	1.0					2	
034	337_034	PEM				03-DEC-2004 01:50	1.0					1	
047	337_047	X	pem			03-DEC-2004 08:08	1.0	1.0			1	1	
048	337_048	X	pest_3			03-DEC-2004 08:37	1.0	1.0			1	3 ac	

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS2053
Flags used: <=opening >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 244485881 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 02-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
049	337_049	CCV	ccv			03-DEC-2004 09:06	1.0	1.0	20		1	3 ac	
050	337_050	X	ccv			03-DEC-2004 09:35	1.0					4	
051	337_051	PEM	pem			03-DEC-2004 10:04	1.0	1.0			1	1	

41

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS2053
Flags used: <=opening >=closing ac=average CCV drift out

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804485916 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 02-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
004	337_004	PEM				02-DEC-2004 10:36	1.0	1.0			1	1	
005	337_005	CCV	pest_4			02-DEC-2004 11:32	1.0	1.0	6		1	2	
006	337_006	X	ccv			02-DEC-2004 12:01	1.0					2	
008	337_008	SAMPLE	176297-001	97030	Soil	02-DEC-2004 17:17	1.0	0.6667	4		1		
009	337_009	SAMPLE	176297-002	97030	Soil	02-DEC-2004 17:46	1.0	0.6609	4		1		
010	337_010	MSS	176297-003	97030	Soil	02-DEC-2004 18:14	1.0	0.6676	5		1		
011	337_011	SAMPLE	176298-001	97030	Soil	02-DEC-2004 18:42	1.0	0.6669	4		1		
012	337_012	SAMPLE	176298-002	97030	Soil	02-DEC-2004 19:10	1.0	0.657	4		1		
013	337_013	SAMPLE	176299-001	97030	Soil	02-DEC-2004 19:39	10.0	0.657	4		1		
014	337_014	SAMPLE	176299-002	97030	Soil	02-DEC-2004 20:07	10.0	0.6616	4		1		
015	337_015	MS	QC274474	97030	Soil	02-DEC-2004 20:35	1.0	0.6579	6		1		
016	337_016	MSD	QC274475	97030	Soil	02-DEC-2004 21:04	1.0	0.6633	6		1		
018	337_018	PEM				02-DEC-2004 22:00	1.0	1.0			1	1	
019	337_019	CCV	pest_3			02-DEC-2004 22:28	1.0	1.0			1	3	
020	337_020	X	ccv			02-DEC-2004 22:56	1.0					3	
021	337_021	X	ccv			02-DEC-2004 23:24	1.0					4	
022	337_022	PEM				02-DEC-2004 23:52	1.0					1	
024	337_024	SAMPLE	176179-009	96997	Soil	03-DEC-2004 00:49	10.0	0.6693			1		
025	337_025	SAMPLE	176179-010	96997	Soil	03-DEC-2004 01:17	5.0	0.6601			1		
026	337_026	SAMPLE	176179-011	96997	Soil	03-DEC-2004 01:45	5.0	0.6711			1		
027	337_027	SAMPLE	176179-012	96997	Soil	03-DEC-2004 02:14	5.0	0.6676			1		
028	337_028	SAMPLE	176179-013	96997	Soil	03-DEC-2004 02:42	10.0	0.6605			1		
029	337_029	SAMPLE	176179-014	96997	Soil	03-DEC-2004 03:10	10.0	0.6588			1		
030	337_030	SAMPLE	176179-015	96997	Soil	03-DEC-2004 03:38	10.0	0.6592			1		
031	337_031	SAMPLE	176179-016	96997	Soil	03-DEC-2004 04:07	20.0	0.6734			1		
032	337_032	SAMPLE	176179-017	96997	Soil	03-DEC-2004 04:35	5.0	0.6596			1		
033	337_033	SAMPLE	176179-018	96997	Soil	03-DEC-2004 05:03	5.0	0.672			1		
035	337_035	PEM				03-DEC-2004 06:00	1.0	1.0			1	1	
036	337_036	X	pest_4			03-DEC-2004 06:28	1.0	1.0			1	2	
037	337_037	CCV	ccv			03-DEC-2004 06:56	1.0	1.0	3		1	2	
039	337_039	LCS	QC274353	96997	Soil	03-DEC-2004 10:17	1.0	0.6766	3		1		

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS2053

SEQUENCE SUMMARY FOR 176248 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804485916 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 02-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
040	337_040	SAMPLE	176248-003	96997	Soil	03-DEC-2004 11:30	1.0	0.6562			1		
042	337_042	PEM				03-DEC-2004 17:55	1.0	1.0			1	1	
043	337_043	CCV	pest_3			03-DEC-2004 18:23	1.0	1.0			1	3	
044	337_044	X	ccv			03-DEC-2004 18:51	1.0					3	
045	337_045	X	ccv			03-DEC-2004 19:20	1.0					4	
048	337_048	BLANK	QC274705	97087	Soil	03-DEC-2004 20:44	1.0	0.666			1		
049	337_049	LCS	QC274706	97087	Soil	03-DEC-2004 21:13	1.0	0.6562	2		1		
050	337_050	SAMPLE	176361-001	97087	Soil	03-DEC-2004 21:41	10.0	0.664			1		
051	337_051	BLANK	QC274112	96940	Soil	03-DEC-2004 22:09	1.0	0.6662			1		
052	337_052	LCS	QC274113	96940	Soil	03-DEC-2004 22:38	1.0	0.6671	2		1		
053	337_053	SAMPLE	176179-019	96997	Soil	03-DEC-2004 23:06	10.0	0.6649			1		
054	337_054	SAMPLE	176179-020	96997	Soil	03-DEC-2004 23:34	5.0	0.6761		4	1		
055	337_055	SAMPLE	176179-021	96997	Soil	04-DEC-2004 00:02	5.0	0.6605			1		
056	337_056	SAMPLE	176179-022	96997	Soil	04-DEC-2004 00:31	5.0	0.6583			1		
058	337_058	PEM				04-DEC-2004 01:27	1.0	1.0			1	1	
059	337_059	CCV	pest_4			04-DEC-2004 01:55	1.0	1.0	2		1	2	
060	337_060	X	ccv			04-DEC-2004 02:23	1.0					2	
063	337_063	SAMPLE	176179-023	96997	Soil	04-DEC-2004 03:48	5.0	0.6631			1		
064	337_064	SAMPLE	176179-027	96997	Soil	04-DEC-2004 04:16	5.0	0.6662			1		
065	337_065	SAMPLE	176179-001	96940	Soil	04-DEC-2004 04:45	5.0	0.6725			1		
066	337_066	SAMPLE	176179-002	96940	Soil	04-DEC-2004 05:13	5.0	0.6627			1		
067	337_067	SAMPLE	176179-003	96940	Soil	04-DEC-2004 05:41	5.0	0.657			1		
068	337_068	SAMPLE	176179-004	96940	Soil	04-DEC-2004 06:10	5.0	0.6671			1		
069	337_069	SAMPLE	176179-005	96940	Soil	04-DEC-2004 06:38	5.0	0.6676			1		
070	337_070	SAMPLE	176179-006	96940	Soil	04-DEC-2004 07:06	5.0	0.6716			1		
071	337_071	SAMPLE	176179-007	96940	Soil	04-DEC-2004 07:35	5.0	0.6707			1		
072	337_072	SAMPLE	176179-008	96940	Soil	04-DEC-2004 08:03	5.0	0.6614			1		
074	337_074	PEM				04-DEC-2004 08:59	1.0	1.0			1	1	
075	337_075	CCV	pest_3			04-DEC-2004 09:27	1.0	1.0	1		1	3	
076	337_076	X	ccv			04-DEC-2004 09:56	1.0					3	
077	337_077	X	ccv			04-DEC-2004 10:24	1.0					4	

Stds used: 1=04WS2193 2=04WS2052 3=04WS2051 4=04WS2053

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176248-001	alpha-BHC	GC23	A	11/29/04 18:48
176248-001	beta-BHC	GC23	A	11/29/04 18:48
176248-001	gamma-BHC	GC23	A	11/29/04 18:48
176248-001	delta-BHC	GC23	A	11/29/04 18:48
176248-001	Heptachlor	GC23	A	11/29/04 18:48
176248-001	Aldrin	GC23	A	11/29/04 18:48
176248-001	Heptachlor epoxide	GC23	A	11/29/04 18:48
176248-001	Endosulfan I	GC23	A	11/29/04 18:48
176248-001	Dieldrin	GC23	A	11/29/04 18:48
176248-001	4,4'-DDE	GC23	A	11/29/04 18:48
176248-001	Endrin	GC23	A	11/29/04 18:48
176248-001	Endosulfan II	GC23	A	11/29/04 18:48
176248-001	Endosulfan sulfate	GC23	A	11/29/04 18:48
176248-001	4,4'-DDD	GC23	A	11/29/04 18:48
176248-001	Endrin ketone	GC23	A	11/29/04 18:48
176248-001	4,4'-DDT	GC23	A	11/29/04 18:48
176248-001	Chlordane (Technical)	GC23	A	11/29/04 18:48
176248-001	alpha-Chlordane	GC23	A	11/29/04 18:48
176248-001	gamma-Chlordane	GC23	A	11/29/04 18:48
176248-001	Methoxychlor	GC23	A	11/29/04 18:48
176248-001	Toxaphene	GC23	A	11/29/04 18:48
176248-001	TCMX	GC23	A	11/29/04 18:48
176248-001	Decachlorobiphenyl	GC23	A	11/29/04 18:48
176248-002	alpha-BHC	GC23	A	11/29/04 19:17
176248-002	beta-BHC	GC23	A	11/29/04 19:17
176248-002	gamma-BHC	GC23	A	11/29/04 19:17
176248-002	delta-BHC	GC23	A	11/29/04 19:17
176248-002	Heptachlor	GC23	A	11/29/04 19:17
176248-002	Aldrin	GC23	A	11/29/04 19:17
176248-002	Heptachlor epoxide	GC23	A	11/29/04 19:17
176248-002	Endosulfan I	GC23	A	11/29/04 19:17
176248-002	Dieldrin	GC23	A	11/29/04 19:17
176248-002	4,4'-DDE	GC23	A	11/29/04 19:17
176248-002	Endrin	GC23	A	11/29/04 19:17
176248-002	Endosulfan II	GC23	A	11/29/04 19:17
176248-002	Endosulfan sulfate	GC23	A	11/29/04 19:17
176248-002	4,4'-DDD	GC23	A	11/29/04 19:17
176248-002	Endrin ketone	GC23	A	11/29/04 19:17
176248-002	4,4'-DDT	GC23	A	11/29/04 19:17
176248-002	Chlordane (Technical)	GC23	A	11/29/04 19:17
176248-002	alpha-Chlordane	GC23	A	11/29/04 19:17
176248-002	gamma-Chlordane	GC23	A	11/29/04 19:17
176248-002	Methoxychlor	GC23	A	11/29/04 19:17
176248-002	Toxaphene	GC23	A	11/29/04 19:17
176248-002	TCMX	GC23	A	11/29/04 19:17
176248-002	Decachlorobiphenyl	GC23	A	11/29/04 19:17
176248-003	alpha-BHC	GC23	A	12/03/04 11:30

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176248-003	beta-BHC	GC23	A	12/03/04 11:30
176248-003	gamma-BHC	GC23	A	12/03/04 11:30
176248-003	delta-BHC	GC23	A	12/03/04 11:30
176248-003	Heptachlor	GC23	A	12/03/04 11:30
176248-003	Aldrin	GC23	A	12/03/04 11:30
176248-003	Heptachlor epoxide	GC23	A	12/03/04 11:30
176248-003	Endosulfan I	GC23	A	12/03/04 11:30
176248-003	Dieldrin	GC23	A	12/03/04 11:30
176248-003	4,4'-DDE	GC23	A	12/03/04 11:30
176248-003	Endrin	GC23	A	12/03/04 11:30
176248-003	Endosulfan II	GC23	A	12/03/04 11:30
176248-003	Endosulfan sulfate	GC23	A	12/03/04 11:30
176248-003	4,4'-DDD	GC23	A	12/03/04 11:30
176248-003	Endrin ketone	GC23	A	12/03/04 11:30
176248-003	4,4'-DDT	GC23	A	12/03/04 11:30
176248-003	Chlordane (Technical)	GC23	A	12/03/04 11:30
176248-003	alpha-Chlordane	GC23	A	12/03/04 11:30
176248-003	gamma-Chlordane	GC23	A	12/03/04 11:30
176248-003	Methoxychlor	GC23	A	12/03/04 11:30
176248-003	Toxaphene	GC23	A	12/03/04 11:30
176248-003	TCMX	GC23	A	12/03/04 11:30
176248-003	Decachlorobiphenyl	GC23	A	12/03/04 11:30
176248-004	alpha-BHC	GC23	A	11/29/04 19:45
176248-004	beta-BHC	GC23	A	11/29/04 19:45
176248-004	gamma-BHC	GC23	A	11/29/04 19:45
176248-004	delta-BHC	GC23	A	11/29/04 19:45
176248-004	Heptachlor	GC23	A	11/29/04 19:45
176248-004	Aldrin	GC23	A	11/29/04 19:45
176248-004	Heptachlor epoxide	GC23	A	11/29/04 19:45
176248-004	Endosulfan I	GC23	A	11/29/04 19:45
176248-004	Dieldrin	GC23	A	11/29/04 19:45
176248-004	4,4'-DDE	GC23	A	11/29/04 19:45
176248-004	Endrin	GC23	A	11/29/04 19:45
176248-004	Endosulfan II	GC23	A	11/29/04 19:45
176248-004	Endosulfan sulfate	GC23	A	11/29/04 19:45
176248-004	4,4'-DDD	GC23	A	11/29/04 19:45
176248-004	Endrin ketone	GC23	A	11/29/04 19:45
176248-004	4,4'-DDT	GC23	A	11/29/04 19:45
176248-004	Chlordane (Technical)	GC23	A	11/29/04 19:45
176248-004	alpha-Chlordane	GC23	A	11/29/04 19:45
176248-004	gamma-Chlordane	GC23	A	11/29/04 19:45
176248-004	Methoxychlor	GC23	A	11/29/04 19:45
176248-004	Toxaphene	GC23	A	11/29/04 19:45
176248-004	TCMX	GC23	A	11/29/04 19:45
176248-004	Decachlorobiphenyl	GC23	A	11/29/04 19:45
176248-005	alpha-BHC	GC23	A	11/29/04 20:13
176248-005	beta-BHC	GC23	A	11/29/04 20:13

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176248-005	gamma-BHC	GC23	A	11/29/04 20:13
176248-005	delta-BHC	GC23	A	11/29/04 20:13
176248-005	Heptachlor	GC23	A	11/29/04 20:13
176248-005	Aldrin	GC23	A	11/29/04 20:13
176248-005	Heptachlor epoxide	GC23	A	11/29/04 20:13
176248-005	Endosulfan I	GC23	A	11/29/04 20:13
176248-005	Dieldrin	GC23	A	11/29/04 20:13
176248-005	4,4'-DDE	GC23	A	11/29/04 20:13
176248-005	Endrin	GC23	A	11/29/04 20:13
176248-005	Endosulfan II	GC23	A	11/29/04 20:13
176248-005	Endosulfan sulfate	GC23	A	11/29/04 20:13
176248-005	4,4'-DDD	GC23	A	11/29/04 20:13
176248-005	Endrin ketone	GC23	A	11/29/04 20:13
176248-005	4,4'-DDT	GC23	A	11/29/04 20:13
176248-005	Chlordane (Technical)	GC23	A	11/29/04 20:13
176248-005	alpha-Chlordane	GC23	A	11/29/04 20:13
176248-005	gamma-Chlordane	GC23	A	11/29/04 20:13
176248-005	Methoxychlor	GC23	A	11/29/04 20:13
176248-005	Toxaphene	GC23	A	11/29/04 20:13
176248-005	TCMX	GC23	A	11/29/04 20:13
176248-005	Decachlorobiphenyl	GC23	A	11/29/04 20:13
QC273650	alpha-BHC	GC23	A	11/29/04 15:54
QC273650	beta-BHC	GC23	B	11/29/04 15:54
QC273650	gamma-BHC	GC23	A	11/29/04 15:54
QC273650	delta-BHC	GC23	A	11/29/04 15:54
QC273650	Heptachlor	GC23	A	11/29/04 15:54
QC273650	Aldrin	GC23	A	11/29/04 15:54
QC273650	Heptachlor epoxide	GC23	A	11/29/04 15:54
QC273650	Endosulfan I	GC23	A	11/29/04 15:54
QC273650	Dieldrin	GC23	A	11/29/04 15:54
QC273650	4,4'-DDE	GC23	A	11/29/04 15:54
QC273650	Endrin	GC23	A	11/29/04 15:54
QC273650	Endosulfan II	GC23	A	11/29/04 15:54
QC273650	Endosulfan sulfate	GC23	A	11/29/04 15:54
QC273650	4,4'-DDD	GC23	A	11/29/04 15:54
QC273650	Endrin ketone	GC23	B	11/29/04 15:54
QC273650	4,4'-DDT	GC23	A	11/29/04 15:54
QC273650	Chlordane (Technical)	GC23	A	11/29/04 15:54
QC273650	alpha-Chlordane	GC23	A	11/29/04 15:54
QC273650	gamma-Chlordane	GC23	A	11/29/04 15:54
QC273650	Methoxychlor	GC23	B	11/29/04 15:54
QC273650	Toxaphene	GC23	A	11/29/04 15:54
QC273650	TCMX	GC23	A	11/29/04 15:54
QC273650	Decachlorobiphenyl	GC23	A	11/29/04 15:54
QC273651	gamma-BHC	GC23	A	11/29/04 16:23
QC273651	Heptachlor	GC23	A	11/29/04 16:23
QC273651	Aldrin	GC23	A	11/29/04 16:23

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC273651	Dieldrin	GC23	A	11/29/04 16:23
QC273651	Endrin	GC23	A	11/29/04 16:23
QC273651	4,4'-DDT	GC23	A	11/29/04 16:23
QC273651	TCMX	GC23	A	11/29/04 16:23
QC273651	Decachlorobiphenyl	GC23	A	11/29/04 16:23
QC273771	gamma-BHC	GC23	A	11/29/04 21:38
QC273771	Heptachlor	GC23	A	11/29/04 21:38
QC273771	Aldrin	GC23	A	11/29/04 21:38
QC273771	Dieldrin	GC23	A	11/29/04 21:38
QC273771	Endrin	GC23	A	11/29/04 21:38
QC273771	4,4'-DDT	GC23	A	11/29/04 21:38
QC273771	TCMX	GC23	A	11/29/04 21:38
QC273771	Decachlorobiphenyl	GC23	A	11/29/04 21:38
QC273772	gamma-BHC	GC23	A	11/29/04 22:06
QC273772	Heptachlor	GC23	A	11/29/04 22:06
QC273772	Aldrin	GC23	A	11/29/04 22:06
QC273772	Dieldrin	GC23	A	11/29/04 22:06
QC273772	Endrin	GC23	A	11/29/04 22:06
QC273772	4,4'-DDT	GC23	A	11/29/04 22:06
QC273772	TCMX	GC23	A	11/29/04 22:06
QC273772	Decachlorobiphenyl	GC23	A	11/29/04 22:06
QC274352	alpha-BHC	GC21	A	12/02/04 13:01
QC274352	beta-BHC	GC21	A	12/02/04 13:01
QC274352	gamma-BHC	GC21	A	12/02/04 13:01
QC274352	delta-BHC	GC21	A	12/02/04 13:01
QC274352	Heptachlor	GC21	A	12/02/04 13:01
QC274352	Aldrin	GC21	A	12/02/04 13:01
QC274352	Heptachlor epoxide	GC21	A	12/02/04 13:01
QC274352	Endosulfan I	GC21	A	12/02/04 13:01
QC274352	Dieldrin	GC21	A	12/02/04 13:01
QC274352	4,4'-DDE	GC21	A	12/02/04 13:01
QC274352	Endrin	GC21	A	12/02/04 13:01
QC274352	Endosulfan II	GC21	A	12/02/04 13:01
QC274352	Endosulfan sulfate	GC21	A	12/02/04 13:01
QC274352	4,4'-DDD	GC21	A	12/02/04 13:01
QC274352	Endrin ketone	GC21	A	12/02/04 13:01
QC274352	4,4'-DDT	GC21	A	12/02/04 13:01
QC274352	Chlordane (Technical)	GC21	A	12/02/04 13:01
QC274352	alpha-Chlordane	GC21	A	12/02/04 13:01
QC274352	gamma-Chlordane	GC21	A	12/02/04 13:01
QC274352	Methoxychlor	GC21	A	12/02/04 13:01
QC274352	Toxaphene	GC21	A	12/02/04 13:01
QC274352	TCMX	GC21	A	12/02/04 13:01
QC274352	Decachlorobiphenyl	GC21	A	12/02/04 13:01
QC274353	gamma-BHC	GC21	A	12/02/04 17:07

Curtis & Tompkins, Ltd.

Reporting Summary for 176248 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC274353	Heptachlor	GC21	A	12/02/04 17:07
QC274353	Aldrin	GC21	A	12/02/04 17:07
QC274353	Dieldrin	GC21	A	12/02/04 17:07
QC274353	Endrin	GC21	A	12/02/04 17:07
QC274353	4,4'-DDT	GC21	A	12/02/04 17:07
QC274353	TCMX	GC21	A	12/02/04 17:07
QC274353	Decachlorobiphenyl	GC21	A	12/02/04 17:07

Curtis & Tompkins Laboratories Sample Preparation Summary 24-NOV-2004 10:52

Batch Number : 96829
Date Extracted: 24-NOV-2004
Extracted by : Amy Silverberg
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225C
Spike #2 ID : 04WS1551B
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176185-001			LFR Levine Fricke	Soil	14.89	g	10	0.671592	1		.01	0		8081	3620B	
176248-001			Treadwell & Rollo	Soil	15.05	g	10	0.664452	1		.01	0		8081	3620B	mss
176248-002			Treadwell & Rollo	Soil	15.18	g	10	0.658762	1		.01	0		8081	3620B	
176248-004			Treadwell & Rollo	Soil	15.2	g	10	0.657895	1		.01	0		8081	3620B	
176248-005			Treadwell & Rollo	Soil	15	g	10	0.666667	1		.01	0		8081	3620B	
QC273650	MB			Soil	14.92	g	10	0.670241	1		.01	0		8081	3620B	
QC273651	LCS			Soil	14.93	g	10	0.669792	1		.01	.5		8081	3620B	
QC273771	MS	of 176248-001		Soil	14.8	g	10	0.675676	1		.01	.5		8081	3620B	
QC273772	MSD	of 176248-001		Soil	14.95	g	10	0.668896	1		.01	.5		8081	3620B	

Prep Chemist: A Silverberg Reviewed By: [illegible] Date: 11/24/04

Relinquished By: [illegible] Received By: [illegible] Date: 11/24/04

Curtis & Tompkins, Ltd.

8081 SOIL PREP LOG

BK 1965

Page 81

LIMS Batch No: 96829
LIMS Analysis: 8081
Extracted by: AMS
Date Extracted: 11/23/04

Extraction Method:
- ☐ EPA 3550b Sonication
- ☑ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:
- ☐ EPA 3640a GPC
- ☑ EPA 3620b Florisil
- ☐ _____

	Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
	176185-001	14.89	10.0	X	X
	MB QC273650	14.92	↓	↓	~~Weights recorded directly to bench~~
	LCS ↓ 651	14.93	↓	↓	↓
	176248-001	15.05	↓	↓	MSS
Not included in Batch BB 11/24/04	-002	15.18	↓	↓	
	~~-003~~				
	-004	15.20	10.0	X	X
	-005	15.00	↓	↓	*
Sample written into book 2 times BB 11/24/04	~~176185-001~~	~~14.89~~			* X
	MS QC273771	14.80	10.0	X	of 176248-001
	MSD ↓ 2	14.95	↓	↓	↓
					* = N/A
					X = Collection Vial full in ASE
			BB 11/24/04		

BB 11/24 N/A

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM4402942 1	AMS 11/23/04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	Dionex 040112	↓
0.01 mL of surrogate solution was added to all samples	04WS2225C	↓
0.5 mL of spike solution was added to all spikes	04WS1551B	↓
1:1 CH_2Cl_2 (lot# 44233):Acetone(lot# 44179) was added to all	✓	↓
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	↓
ASE Cellulose Filters used:	Whatman 028	↓
Soxhlets on at:	N/A	↓
Soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	↓	↓
Exchanged 2x with Hexane	BJCL905	BB 11/24/04
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☑ Florisil	✓	↓

3/04

Ahlvenberg 11/23/04
Extraction Chemist / Date

Continued from page _____
Continued on page _____

11/24/04
Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: BD

Cleanup Date: 11/24/04

Benchbook # **BK 1991**

Page 72

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC273650	96829	1.0	1.0	
LCS ↓ 1				
MS QC273771				
MSD ↓ 2				
176185-001				
176248-001				MSS
-002				
-004				
↓ -005				

	Mfg & Lot # / Time / Program	Initials / Date
☑ Extracts were cleaned up using Florisil cartridges	Resprep 303221-A2	DD 11/24/04
Florisil cartridges/ columns rinsed 3x with Hexane	✓ BJ 2L905	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	↓	
Acetone	EM 44179	
Concentrated to volumes as noted above	✓	✓

11/24/04

Extraction Chemist / Date

Continued from page ___

Continued on page ___

11/24/04

Reviewed by / Date

Project Soil Aliquot BR2032

Continued from Page

Sample I.D.	Weight (g)	Analysis	Comments
176211-~~001A~~ 001A	14.99	PCB	
176180-010 A	14.94		
-011	14.90		MSS
-012	15.23		
176185-001 A	14.90		
MB	15.12		EM44828421
LCS	14.99		
MS	14.95		176180-011A
MSD	15.06		
176185-001 A	14.89	8081	
MB	14.92		EM44828421
LCS	14.93		

Continued on Page

Read and Understood By

Michelle Curtis — Signed

11/23/04 — Date

Signed

Date

Project Soil Aliquot BK 2032

Continued from Page

Sample ID	Weight (g)	Analysis	Comments
176248-001A	15.05	8081	MSS
-002	15.18		
-004	15.20		
-005	15.00		
176248-001A	14.78	PCB	
-002	14.88		
-004	15.16		
-005	15.01		
MS	14.80	8081	176248-001A
MSD	14.95		
176241-001A	15.01	PCB	
176185-001A	15.17	PCB	
-001A	15.18	8081	
176185-001A	29.82	8270	
-001A	50.26	TEH	
176241-001A	49.93	TEH	

Continued on Page

Read and Understood By

Signed Date Signed Date

Curtis & Tompkins Laboratories **Sample Preparation Summary** **01-DEC-2004 16:18**

Batch Number : 96997
Date Extracted: 30-NOV-2004
Extracted by : Coral E. Weese
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225B
Spike #2 ID : 04WS1551B
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176179-009			Blasland, Bouck & Lee	Soil	14.94	g	10	0.669344	1		.01	0		8081		
176179-010			Blasland, Bouck & Lee	Soil	15.15	g	10	0.660066	1		.01	0		8081		
176179-011			Blasland, Bouck & Lee	Soil	14.9	g	10	0.671141	1		.01	0		8081		
176179-012			Blasland, Bouck & Lee	Soil	14.98	g	10	0.667557	1		.01	0		8081		
176179-013			Blasland, Bouck & Lee	Soil	15.14	g	10	0.660502	1		.01	0		8081		
176179-014			Blasland, Bouck & Lee	Soil	15.18	g	10	0.658762	1		.01	0		8081		
176179-015			Blasland, Bouck & Lee	Soil	15.17	g	10	0.659196	1		.01	0		8081		
176179-016			Blasland, Bouck & Lee	Soil	14.85	g	10	0.673401	1		.01	0		8081		
176179-017			Blasland, Bouck & Lee	Soil	15.16	g	10	0.659631	1		.01	0		8081		
176179-018			Blasland, Bouck & Lee	Soil	14.88	g	10	0.672043	1		.01	0		8081		
176179-019			Blasland, Bouck & Lee	Soil	15.04	g	10	0.664894	1		.01	0		8081		
176179-020			Blasland, Bouck & Lee	Soil	14.79	g	10	0.676133	1		.01	0		8081		
176179-021			Blasland, Bouck & Lee	Soil	15.14	g	10	0.660502	1		.01	0		8081		
176179-022			Blasland, Bouck & Lee	Soil	15.19	g	10	0.658328	1		.01	0		8081		
176179-023			Blasland, Bouck & Lee	Soil	15.08	g	10	0.663130	1		.01	0		8081		
176179-027			Blasland, Bouck & Lee	Soil	15.01	g	10	0.666223	1		.01	0		8081		
176248-003			Treadwell & Rollo	Soil	15.24	g	10	0.656168	1		.01	0		8081		
QC274352	MB			Soil	14.79	g	10	0.676133	1		.01	0		8081		
QC274353	LCS			Soil	14.78	g	10	0.676590	1		.01	.5		8081		
QC274354	MS	of 176179-025		Soil	15.24	g	10	0.656168	1		.01	.5		8081		
QC274355	MSD	of 176179-025		Soil	15.09	g	10	0.662691	1		.01	.5		8081		

Prep Chemist: Coral Weese Reviewed By: Jessie Mee Date: 1 Dec 04

Relinquished By: Jessie Mee Received By: [illegible] Date: 12/02/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 96991 **Extraction Method:** **Cleanup Method:** Page 84

LIMS Analysis: 8081 ☐ EPA 3550b Sonication ☐ EPA 3640a GPC

Extracted by: COW ☒ EPA 3545 PFE (Mth# 1D) ☒ EPA 3620b Florisil

Date Extracted: 11/30/04 ☐ EPA 3540c Soxhlet ☐

☐

	Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
1	176179-009A	14.94	10.0	X	
2	-010	15.15			
3	-011	14.90			
4	-012	14.98			
5	176179-013	15.14			
6	-014	15.12			
7	-015	15.17			
8	-016	14.85			
9	-017	15.16			
10	-018	14.88			
11	-019	15.04			
12	-020	14.79			
13	-021	15.14			
14	-022	15.19			
15	-023	15.08			
16	-024	14.98			Samples discarded by 11/30/04
17	-025	15.14			MCS
18	-026	15.00			12/1/04
19	-027	15.01	10.0	X	
20	176218-003	15.24			
	MBK 274352	14.79			
	LCS 3	14.78			
	MS 4	15.24			
	MSD 5	15.09			MM 12/1/04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	04W0284	CW 11/30/04
dried with CH_2Cl_2, rinsed ☐ granular Na_2SO_4 ☑ diatomaceous earth	D10A0040012	
0.01 mL of surrogate solution was added to all samples	04W0322256	
0.50 mL of spike solution was added to all spikes	04W0651B	
1:1 CH_2Cl_2 (lot# 04W4265) Acetone (lot# 04W4179) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☑ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D78	
Soxhlets on at:	NA	
Soxhlets off at:		
Extracts filtered through baked, CH_2Cl_2 rinsed powdered Na_2SO_4	✓	
Exchanged 2x with Hexane	BTCL09	MM 12/1/04
Concentrated: ☒ to volumes as noted above ☒ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil	✓	KW 12/6/04

Carol Weese 11/30/04
Extraction Chemist / Date

Continued from page
Continued on page

Jessie Ma 12/1/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: SEC

Cleanup Date: 12/1/04

Benchbook # **BK 1991**

Page 73

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC 274352	96997	1.0	1.0	
LCS 3				
176179-009				
-010				
-011				
-012				
-013				
-014				
-015				
-016				
-017				
-018				
-019				
-020				
-021				
-022				
-023				
-024				
176248-003				

SEC 12/1/04

	Mfg & Lot # / Time / Program	Initials / Date
☑ Extracts were cleaned up using Florisil cartridges	Supelco 203 331-10	SEC 12/1/04
Florisil cartridges/columns rinsed 3x with Hexane	4 Acetones	
Extracts were eluted with 1.0 mL 2x Hexane/Acetone	Hexane	
	Acetone	
Concentrated to volumes as noted above		

12/1/04

Extraction Chemist / Date

Continued from page —

Continued on page —

Reviewed by / Date

Project SOIL ALIQUOT BK2032

Continued from Page 42

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176179-015A	15.20	PCB	
-016	14.84		
-017	14.99		
-018	15.20		
-019	15.04		
-020	14.93		
-021	14.91		
-022	14.83		
-023	15.13		
-024	14.92		*HOT*
-025	15.05		MSS
-026	15.04		
-027	14.93		
-028	15.02		
-029	15.10		
-030	14.97		
-031	15.15		
MS	14.87		176179-025A
MSD	15.10		↓
LCS	15.10		CM4402842
MB	14.97		↓
176179-001A	14.87	8081	
-002	15.09		
-003	15.22		
-004	14.99		
-005	14.98		
-006	14.89		
-007	14.91		
-008	15.12		
-009	14.94		
-010	15.15		
-011	14.90		
-012	14.98		
-013	15.14		
-014	15.18		

Continued on Page 44

Read and Understood By

Michelle Cantu — Signed

11/24/04 — Date

Signed

Date

Project SOILALIQUOT BK2032

Continued from Page 43

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176179-015A	15.17	8081	
-016	14.85		
-017	15.16		
-018	14.88		
-019	15.04		
-020	14.79		
-021	15.14		
-022	15.19		
-023	15.08		
-024	14.98		*HOT*
-025	15.14		MSS
-026	15.00		
-027	15.01		
-028	15.09		
-029	Mc 1/24 ~~15.24~~ 14.81		
-030	14.82		
-031	14.77		
MS	15.24		176179-025A
MSD	15.09		↓
LCS	14.78		EM4402842A
MB	14.79		↓

Continued on Page

Read and Understood By

Michelle Curtis — Signed

11/23/04 — Date

Signed

Date

Project Soil Aliquot BK2032

Continued from Page —

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176289-001A	30.30	8270	diluted, 175913-007
176289-001A	30.36	8270-SIM	
176220-001A	15.16	8081	
-002	14.93		
-003	14.82		
-004	15.23		
-005	15.00		
176220-001A	15.04	PCB	Arochlors
-002	15.24		
-003	14.86		
-004	15.07		
-005	15.06		
176248-003A	15.24	Rest	
176219-001A		TEH	
-002			
-003			
-004			
-005			
-006			
-007			
176219-001A		8100	
-002			
-003			
-004			
-005			
-006			
-007			
MS			
MSD			
~~LCS~~MSD		TEH	
MS			

Continued on Page —

Michelle Curtis
Signed

11/30/04
Date

Read and Understood By

Signed

Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14B A	GC14B B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

Curtis & Tompkins, Ltd.

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	176248-001	Cident	: BB3EX154[0.5]
Seqnum	: 804481659013	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 334_013	Batchnum	: 96829	Injected	: 29-NOV-2004 18:48
IDF	: 1.0			Units	: ug/Kg

Prep: 15.05 g --> 10.0 ml = 0.6645 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=334_011	Flags
alpha-BHC	A	804457447001	ND					1.7		
beta-BHC.....	A	804457447001	4.8		0.069	194%		1.7		>c+ C x
gamma-BHC	A	804457447001	ND					1.7		
delta-BHC	A	804457447001	ND					1.7		
Heptachlor	A	804457447001	ND					1.7		
Aldrin	A	804457447001	ND					1.7		
Heptachlor epoxide	A	804457447001	ND					1.7		
Endosulfan I	A	804457447001	ND					1.7		
Dieldrin	A	804457447001	ND					3.3		
4,4'-DDE	A	804457447001	ND					3.3		
Endrin	A	804457447001	ND					3.3		
Endosulfan II	A	804457447001	ND					3.3		
Endosulfan sulfate	A	804457447001	ND					3.3		
4,4'-DDD	A	804457447001	ND					3.3		>c+
Endrin ketone	A	804457447001	ND					3.3		>c+
4,4'-DDT	A	804457447001	ND					3.3		<c+
Chlordane (Technical)	A		ND					30		
alpha-Chlordane.....	A	804457447001	0.85 J		0.47	57%		1.7		C x
gamma-Chlordane.....	A	804457447001	0.64 J	0.059	0.49	25%		1.7		x
Methoxychlor	A	804457447001	ND					17		<c+
Toxaphene	A		ND					60		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804457447001	13.29	12.79	96	65-135	
Decachlorobiphenyl	A	804457447001	13.29	12.99	98	65-135	

+=high bias <=opening >=closing C=RPD between columns exceeds 40% c=CCV x=false positive

Analyst: [signature] Date: 11/30/04 Reviewer: [signature] Date: 11/30/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-001,96829,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 11/30/04 8:58:19 AM
Data Acquisition Time : 11/29/04 6:48:57 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a013p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

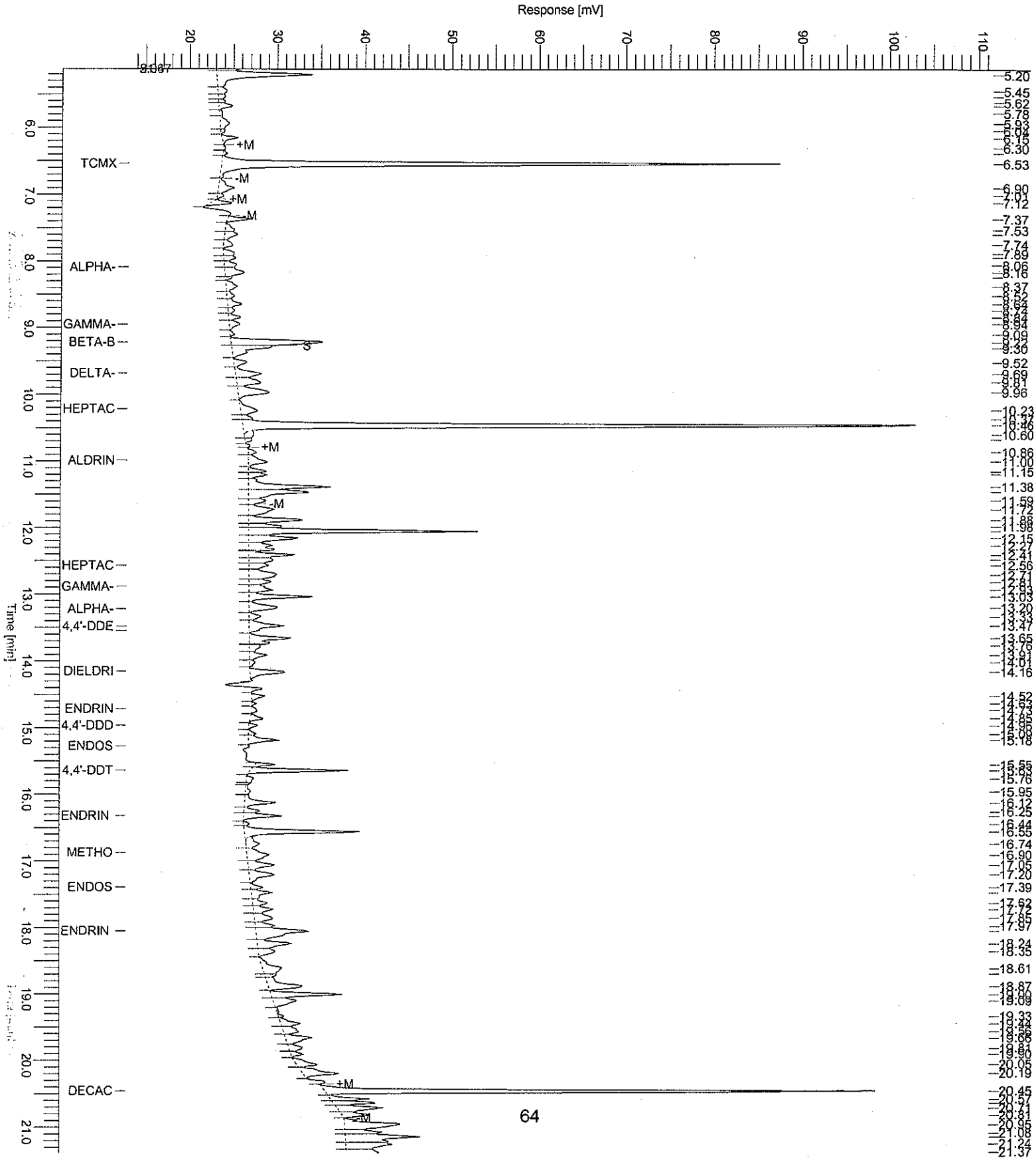
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.535	206565.12	19.2462	0.664	1	12.788
alpha-BHC	8.056	6351.47	0.3682	0.664	1	0.245
gamma-BHC	8.939	5918.27	0.3811	0.664	1	0.253
beta-BHC	9.215	46544.53	7.1984	0.664	1	4.783
delta-BHC	9.688	15536.54	0.9919	0.664	1	0.659
Heptachlor	10.234	12260.39	0.8971	0.664	1	0.596
Aldrin	11.003	11213.51	0.7883	0.664	1	0.524
Heptachlor epoxide	12.561	9425.31	0.7205	0.664	1	0.479
gamma-Chlordane	12.928	12654.75	0.9584	0.664	1	0.637
alpha-Chlordane	13.195	16485.46	1.2859	0.664	1	0.854
4,4'-DDE	13.467	18314.98	1.4164	0.664	1	0.941
Endosulfan I	13.546	0.00	0.0000	0.664	1	0.000
Dieldrin	14.160	17252.00	1.3232	0.664	1	0.879
Endrin	14.731	2465.77	0.2282	0.664	1	0.152
4,4'-DDD	14.963	2921.11	0.2781	0.664	1	0.185
Endosulfan II	15.272	0.00	0.0000	0.664	1	0.000
4,4'-DDT	15.634	30037.50	3.1589	0.664	1	2.099
Endrin aldehyde	16.317	13545.62	1.5403	0.664	1	1.023
Methoxychlor	16.903	17452.16	4.3878	0.664	1	2.916
Endosulfan sulfate	17.387	4435.52	0.4515	0.664	1	0.300
Endrin ketone	18.048	35291.32	3.0433	0.664	1	2.022
Decachlorobiphenyl	20.452	153742.53	19.5505	0.664	1	12.990
		638413.86	68.2145			45.325

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\334a013p.TX0

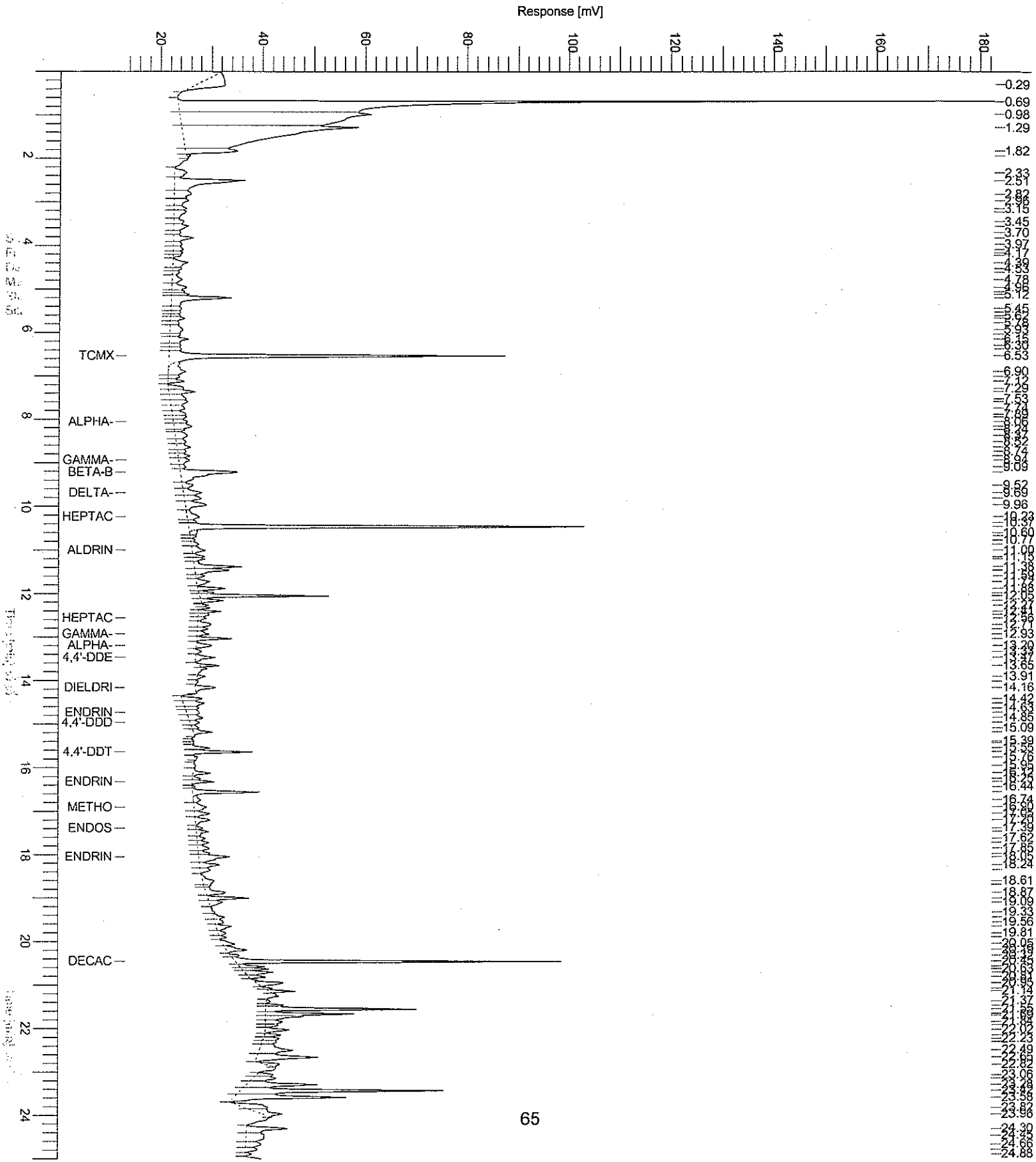
GC23 Rtx-CLPesticides

Sample Name : 176248-001,96829,mss Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHa\334a013.raw
Date : 11/30/04 8:58:26 AM
Method : Time of Injection: 11/29/04 6:48:57 PM
Start Time : 5.12 min End Time : 21.38 min Low Point : 13.06 mV High Point : 111.66 mV
Plot Offset: 13.06 mV Plot Scale: 98.6 mV



GC23 Rtx-CLPesticides

Sample Name : 176248-001,96829,mss Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHa\334a013.raw
Date : 11/30/04 8:05:20 AM
Method : gc23ins Time of Injection: 11/29/04 6:48:57 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 13.48 mV High Point : 182.84 mV
Scale Factor: 1.0 Plot Offset: 13.48 mV Plot Scale: 169.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-001,96829,mss
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 11/30/04 8:57:11 AM
Data Acquisition Time : 11/29/04 6:48:57 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b013p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

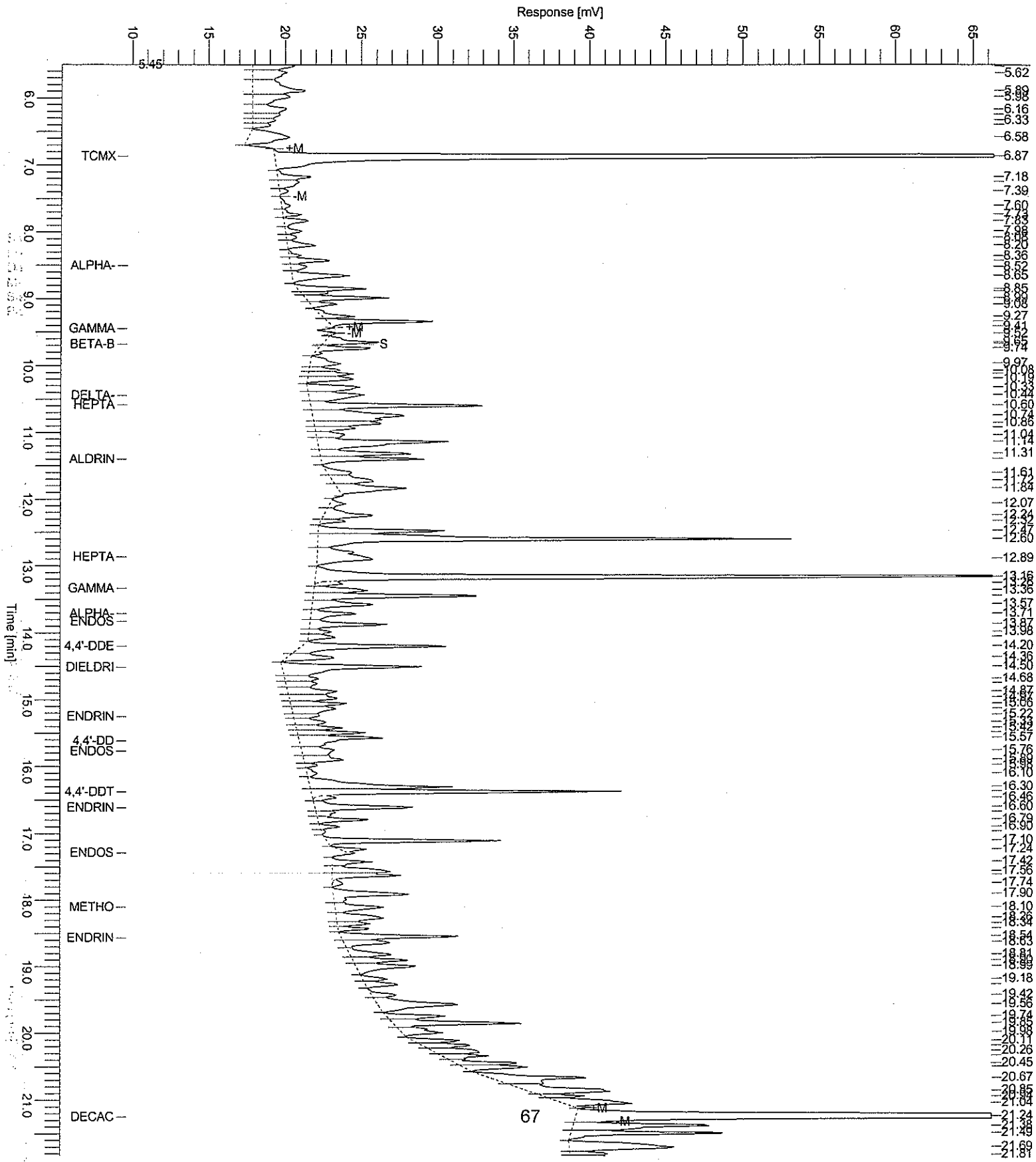
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.866	278433.47	18.8681	0.664	1	12.537
alpha-BHC	8.520	4494.75	0.1884	0.664	1	0.125
beta-BHC	9.674	949.31	0.1041	0.664	1	0.069
delta-BHC	10.438	20841.82	0.9667	0.664	1	0.642
Heptachlor	10.596	39913.83	2.4198	0.664	1	1.608
Aldrin	11.395	21368.50	1.0695	0.664	1	0.711
Heptachlor epoxide	12.888	32129.68	1.7226	0.664	1	1.145
gamma-Chlordane	13.361	13756.51	0.7423	0.664	1	0.493
alpha-Chlordane	13.713	12751.14	0.7139	0.664	1	0.474
Endosulfan I	13.870	17897.99	1.0705	0.664	1	0.711
4,4'-DDE	14.197	37354.27	2.1228	0.664	1	1.410
Dieldrin	14.502	43492.27	2.4503	0.664	1	1.628
Endrin	15.222	6126.74	0.4224	0.664	1	0.281
4,4'-DDD	15.567	27107.98	1.9497	0.664	1	1.295
Endosulfan II	15.757	14126.35	0.9359	0.664	1	0.622
4,4'-DDT	16.368	58425.10	4.5087	0.664	1	2.996
Endrin aldehyde	16.603	24732.61	2.1566	0.664	1	1.433
Endosulfan sulfate	17.237	4666.00	0.3584	0.664	1	0.238
Methoxychlor	18.102	14412.93	2.7775	0.664	1	1.846
Endrin ketone	18.538	26442.48	1.6094	0.664	1	1.069
Decachlorobiphenyl	21.236	387675.63	37.2038	0.664	1	24.720
		1087099.35	84.3614			56.054

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\334b013p.TX0

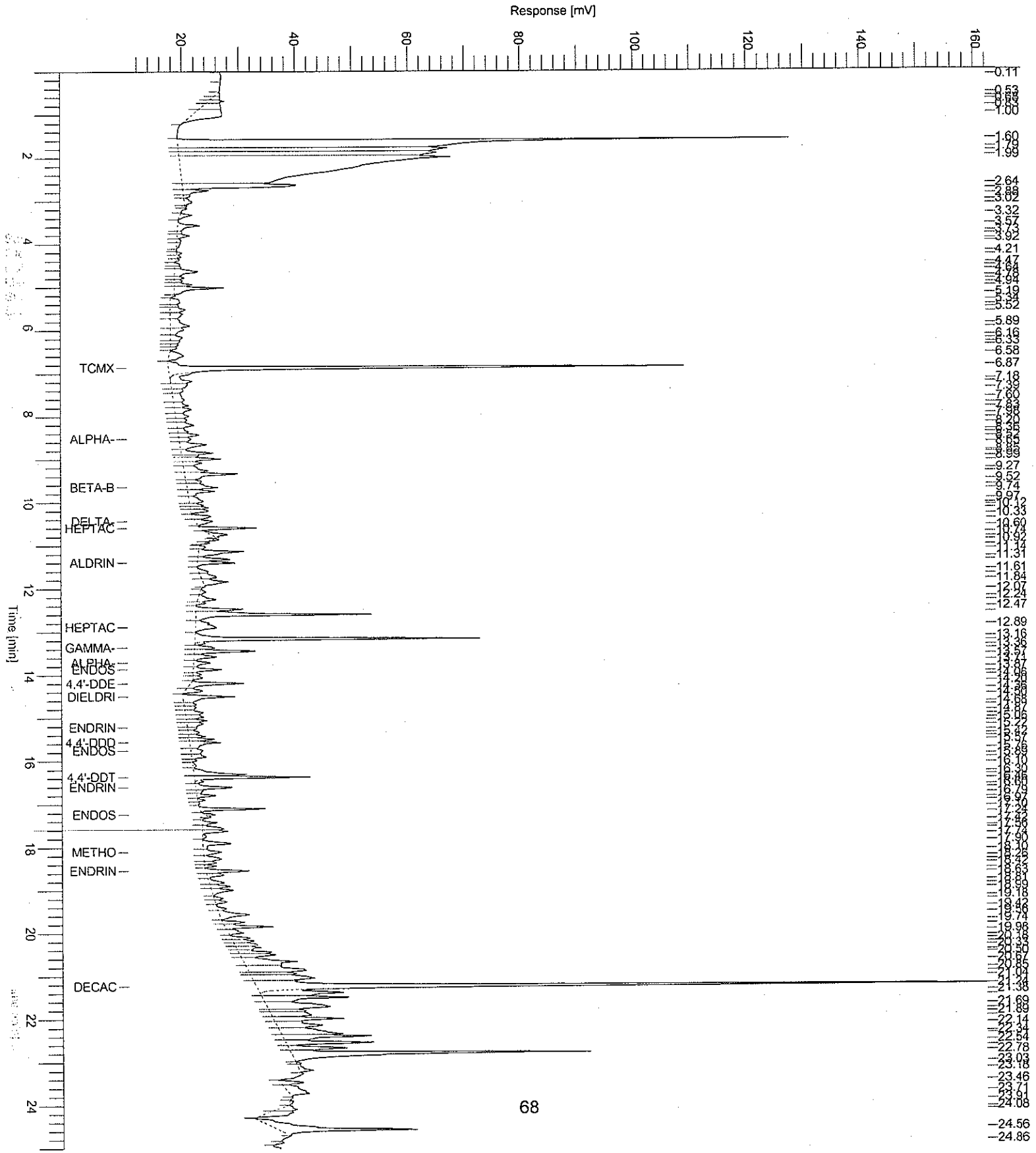
GC23 Rtx-CLPesticides2

Sample Name : 176248-001,96829,mss Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b013.raw
Date : 11/30/04 8:57:17 AM
Method : Time of Injection: 11/29/04 6:48:57 PM
Start Time : 5.50 min End Time : 21.83 min Low Point : 9.69 mV High Point : 66.40 mV
Plot Offset: 9.69 mV Plot Scale: 56.7 mV



GC23 Rtx-CLPesticides2

Sample Name : 176248-001,96829,mss Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b013
Date : 11/30/04 8:03:57 AM
Method : gc23ins Time of Injection: 11/29/04 6:48:57 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.08 mV High Point : 162.19 mV
Scale Factor: 1.0 Plot Offset: 10.08 mV Plot Scale: 152.1 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	176248-002	Cident	: DUP112304A
Seqnum	: 804481659014	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 334_014	Batchnum	: 96829	Injected	: 29-NOV-2004 19:17
IDF	: 1.0			Units	: ug/Kg

Prep: 15.18 g --> 10.0 ml = 0.6588 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=334_011	Flags
alpha-BHC	A	804457447001	ND						1.7		
beta-BHC.....	A	804457447001	3.2	0.064	0.93		109%		1.7		>c+ C x
gamma-BHC	A	804457447001	ND						1.7		
delta-BHC	A	804457447001	ND						1.7		
Heptachlor	A	804457447001	ND						1.7		
Aldrin	A	804457447001	ND						1.7		
Heptachlor epoxide	A	804457447001	ND						1.7		
Endosulfan I	A	804457447001	ND						1.7		
Dieldrin	A	804457447001	ND						3.3		
4,4'-DDE	A	804457447001	ND						3.3		
Endrin	A	804457447001	ND						3.3		
Endosulfan II	A	804457447001	ND						3.3		
Endosulfan sulfate	A	804457447001	ND						3.3		
4,4'-DDD	A	804457447001	ND						3.3		>c+
Endrin ketone.....	A	804457447001	5.9	0.054	0.41		174%		3.3		>c+ C x
4,4'-DDT	A	804457447001	ND						3.3		<c+
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	A	804457447001	ND						1.7		
gamma-Chlordane	A	804457447001	ND						1.7		
Methoxychlor	A	804457447001	ND						17		<c+
Toxaphene	A		ND						59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804457447001	13.18	12.00	91	65-135	
Decachlorobiphenyl	A	804457447001	13.18	12.80	97	65-135	

+=high bias <=opening >=closing C=RPD between columns exceeds 40% c=CCV x=false positive

Analyst: [signature] Date: 11/30/04 Reviewer: [signature] Date: 11/30/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-002,96829
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 11/30/04 8:28:50 AM
Data Acquisition Time : 11/29/04 7:17:03 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a014p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.512	195429.04	18.2086	0.659	1	11.995
alpha-BHC	8.127	9385.17	0.5441	0.659	1	0.358
gamma-BHC	8.904	1492.00	0.0961	0.659	1	0.063
beta-BHC	9.263	31293.56	4.8398	0.659	1	3.188
delta-BHC	9.655	4509.87	0.2879	0.659	1	0.190
Heptachlor	10.229	4795.96	0.3509	0.659	1	0.231
Aldrin	10.987	0.00	0.0000	0.659	1	0.000
Heptachlor epoxide	12.542	6813.70	0.5209	0.659	1	0.343
gamma-Chlordane	12.913	9987.07	0.7564	0.659	1	0.498
alpha-Chlordane	13.185	5365.35	0.4185	0.659	1	0.276
4,4'-DDE	13.453	5835.02	0.4513	0.659	1	0.297
Endosulfan I	13.546	0.00	0.0000	0.659	1	0.000
Dieldrin	14.147	2250.25	0.1726	0.659	1	0.114
Endrin	14.680	4030.10	0.3730	0.659	1	0.246
4,4'-DDD	14.951	6597.21	0.6281	0.659	1	0.414
Endosulfan II	15.254	7977.64	0.7112	0.659	1	0.469
4,4'-DDT	15.619	13758.50	1.4469	0.659	1	0.953
Endrin aldehyde	16.303	12824.65	1.4583	0.659	1	0.961
Methoxychlor	16.865	14806.61	3.7227	0.659	1	2.452
Endosulfan sulfate	17.398	1550.04	0.1578	0.659	1	0.104
Endrin ketone	18.087	103284.33	8.9066	0.659	1	5.867
Decachlorobiphenyl	20.447	152803.00	19.4310	0.659	1	12.800
		594789.08	63.4828			41.820

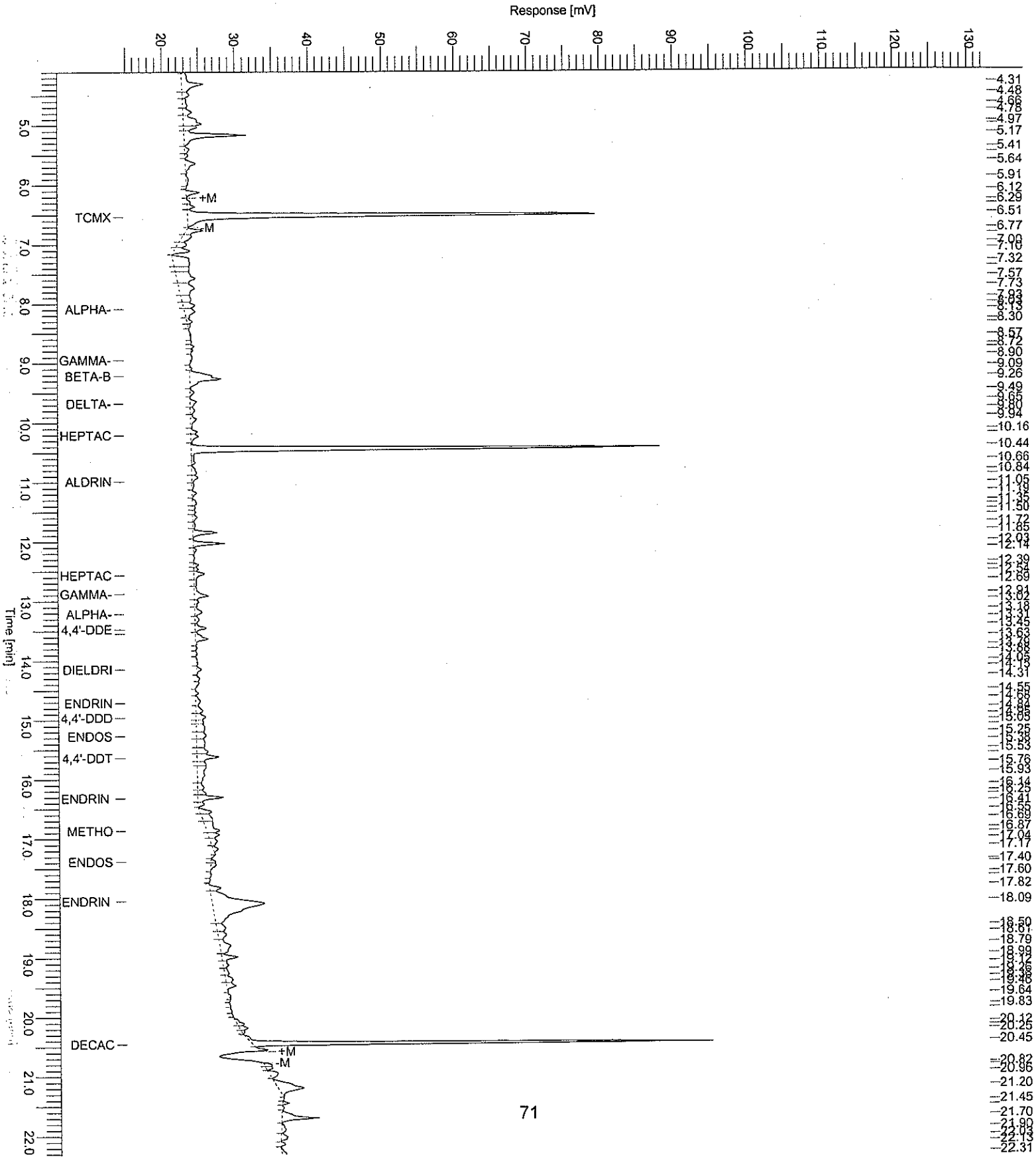
PA 11/30/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\334a014p.TX0

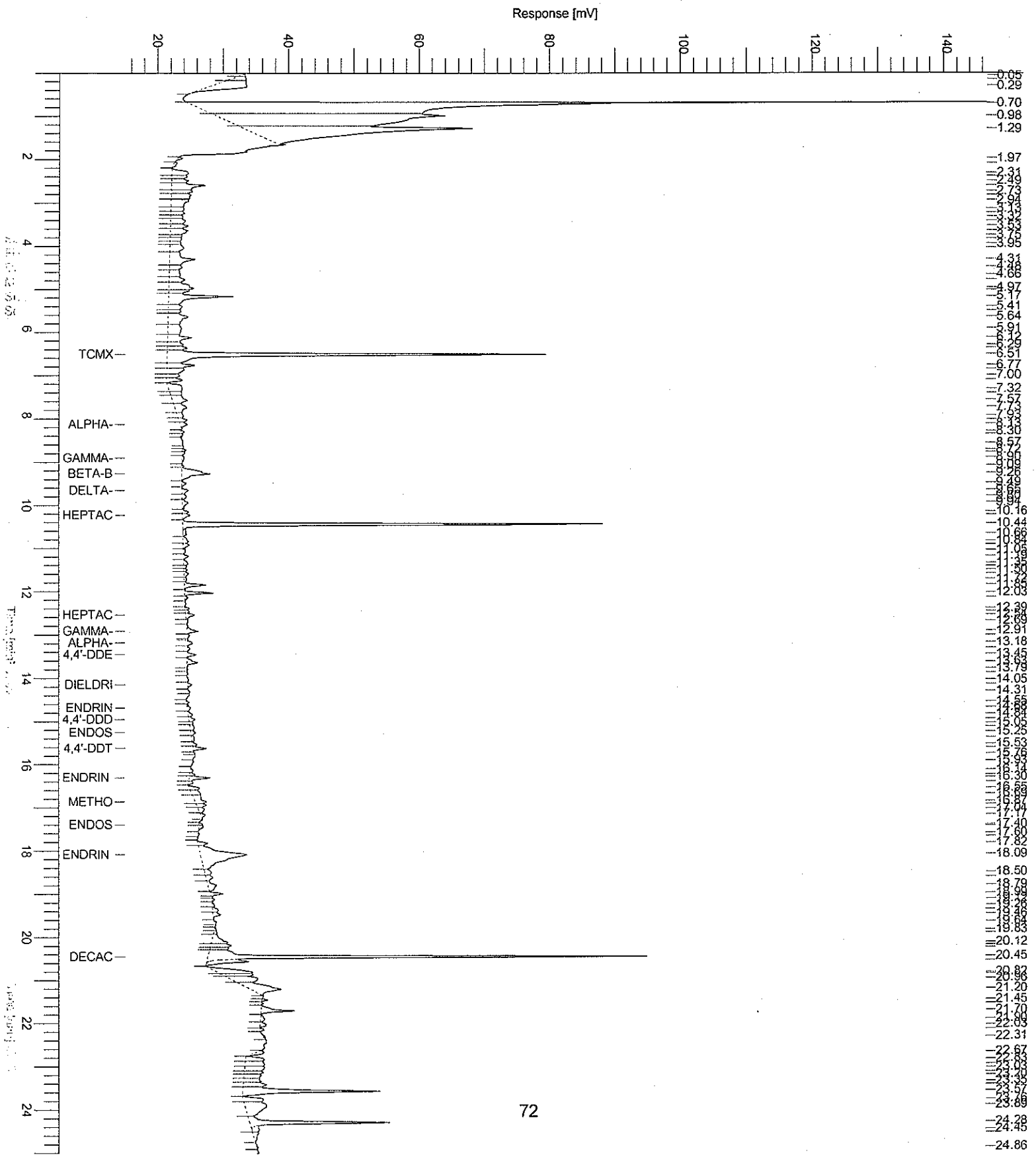
GC23 Rtx-CLPesticides

Sample Name : 176248-002,96829 Sample #: 96829
FileName : G:\gc23\CHa\334a014.raw
Date : 11/30/04 8:28:57 AM
Method :
Time of Injection: 11/29/04 7:17:03 PM
Start Time : 4.10 min End Time : 22.32 min Low Point : 14.77 mV High Point : 132.86 mV
Plot Offset: 14.77 mV Plot Scale: 118.1 mV



GC23 Rtx-CLPesticides

Sample Name : 176248-002,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHa\334a014.raw
Date : 11/30/04 8:05:27 AM
Method : gc23ins Time of Injection: 11/29/04 7:17:03 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 15.10 mV High Point : 146.66 mV
Scale Factor: 1.0 Plot Offset: 15.10 mV Plot Scale: 131.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-002,96829
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 14

Date : 11/30/04 8:48:33 AM
Data Acquisition Time : 11/29/04 7:17:03 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b014p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	253568.06	17.1831	0.659	1	11.320
alpha-BHC	8.535	657.00	0.0275	0.659	1	0.018
gamma-BHC	9.449	0.00	0.0000	0.659	1	0.000
beta-BHC	9.648	12935.69	1.4187	0.659	1	0.935
delta-BHC	10.434	4064.18	0.1885	0.659	1	0.124
Heptachlor	10.584	0.00	0.0000	0.659	1	0.000
Aldrin	11.383	1070.27	0.0536	0.659	1	0.035
Heptachlor epoxide	12.835	11416.50	0.6121	0.659	1	0.403
gamma-Chlordane	13.321	4544.57	0.2452	0.659	1	0.162
alpha-Chlordane	13.704	5768.26	0.3229	0.659	1	0.213
Endosulfan I	13.865	11182.14	0.6688	0.659	1	0.441
4,4'-DDE	14.185	11016.20	0.6260	0.659	1	0.412
Dieldrin	14.484	6385.10	0.3597	0.659	1	0.237
Endrin	15.249	0.00	0.0000	0.659	1	0.000
4,4'-DDD	15.612	771.00	0.0555	0.659	1	0.037
Endosulfan II	15.760	1055.15	0.0699	0.659	1	0.046
4,4'-DDT	16.362	9297.19	0.7175	0.659	1	0.473
Endrin aldehyde	16.600	9878.31	0.8614	0.659	1	0.567
Endosulfan sulfate	17.287	23674.24	1.8185	0.659	1	1.198
Methoxychlor	18.092	9548.99	1.8402	0.659	1	1.212
Endrin ketone	18.535	10235.89	0.6230	0.659	1	0.410
Decachlorobiphenyl	21.236	264910.85	25.4225	0.659	1	16.747
		651979.60	53.1146			34.990

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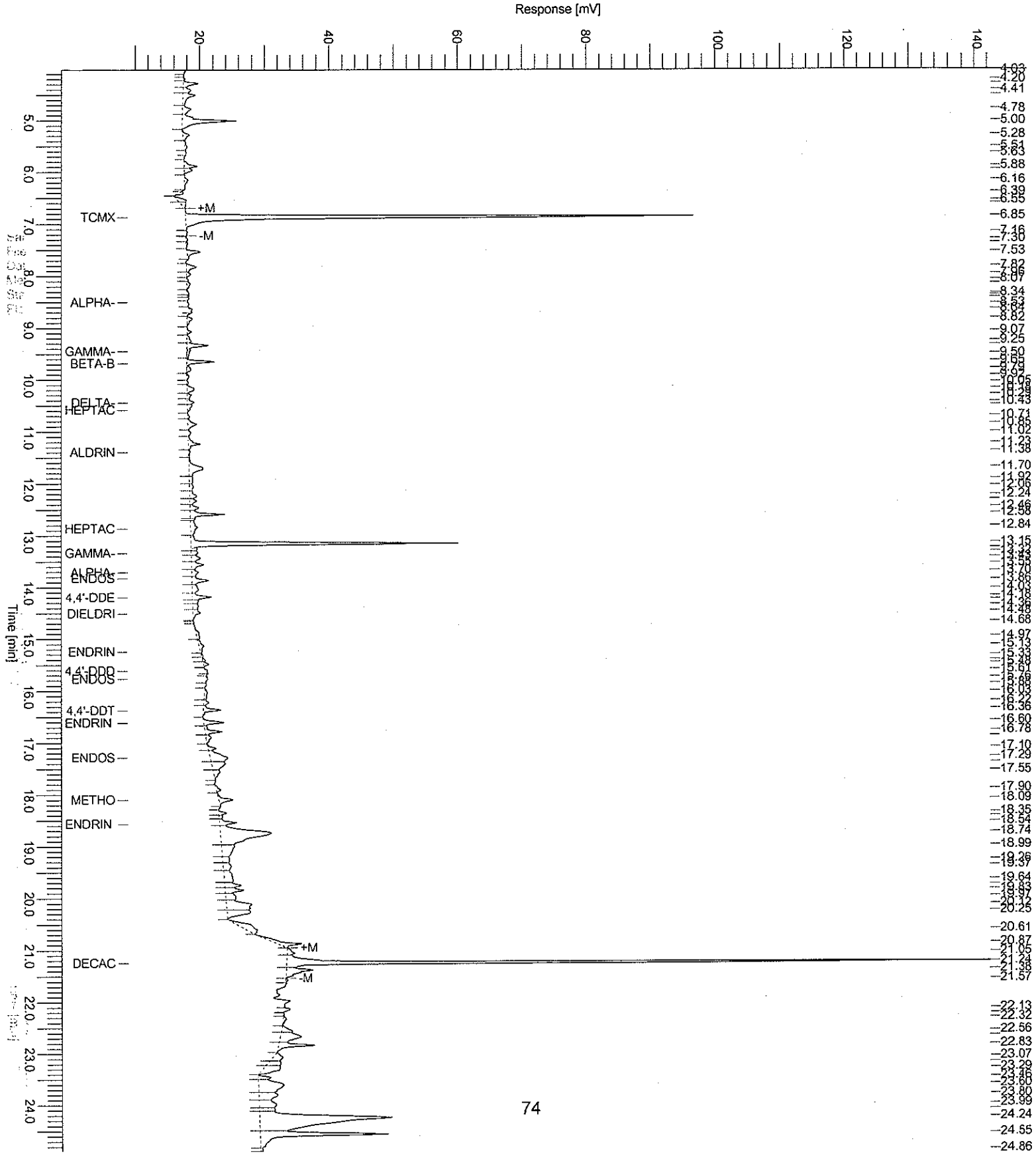
Report stored in ASCII file: G:\gc23\CHB\334b014p.TX0

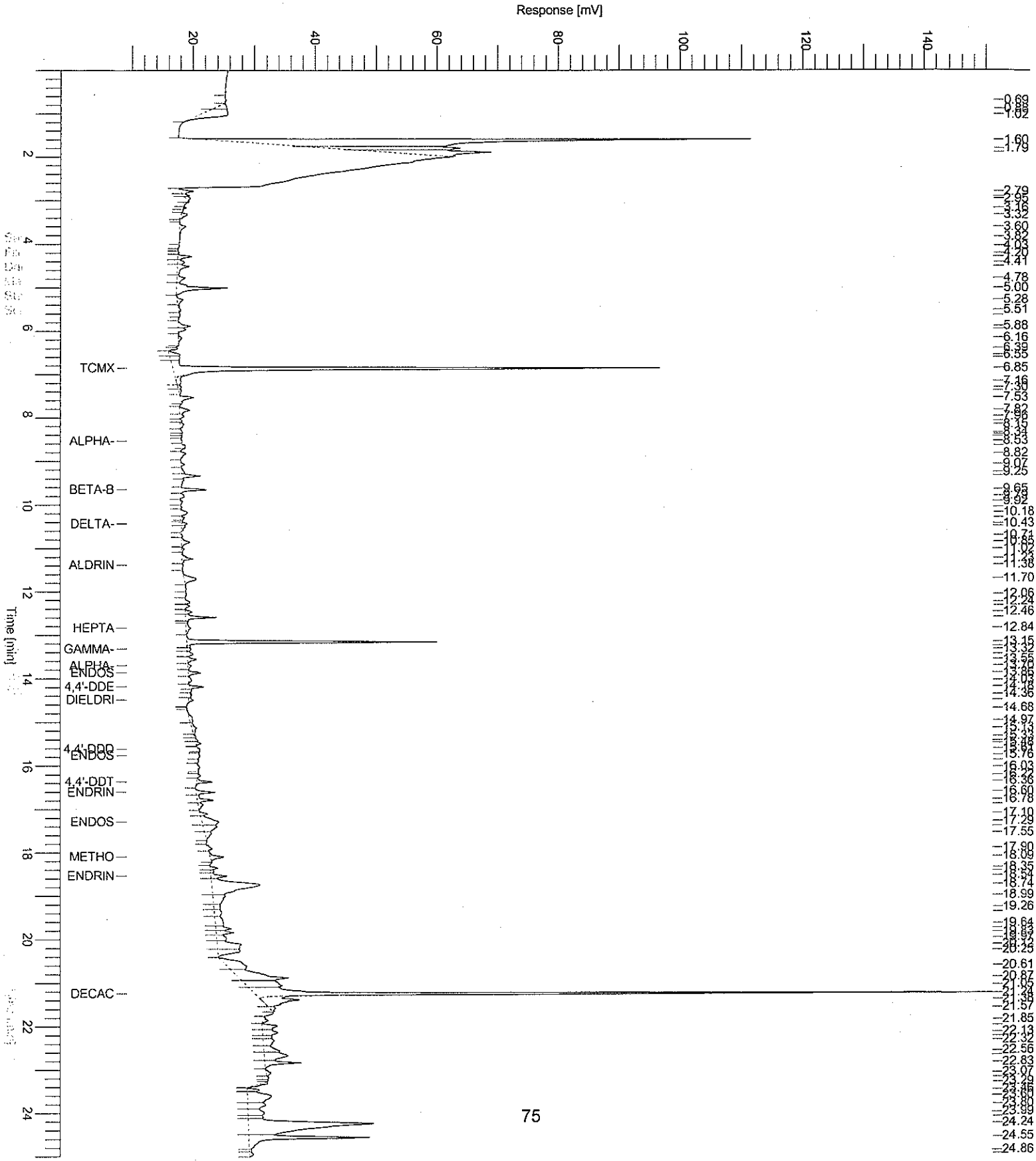
GC23 Rtx-CLPesticides2

Sample Name : 176248-002,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b014.raw
Date : 11/30/04 8:48:39 AM
Method : Time of Injection: 11/29/04 7:17:03 PM
Start Time : 4.02 min End Time : 24.88 min Low Point : 8.78 mV High Point : 142.62 mV
Plot Offset: 8.78 mV Plot Scale: 133.8 mV



GC23 Rtx-CLPesticides2

Sample Name : 176248-002,96829 Sample #: 96829
FileName : G:\gc23\CHb\334b014
Date : 11/30/04 8:04:05 AM
Method : gc23ins Time of Injection: 11/29/04 7:17:03 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 9.14 mV High Point : 151.29 mV
Scale Factor: 1.0 Plot Offset: 9.14 mV Plot Scale: 142.2 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 804485916040	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 337_040	Batchnum	: 96997	Injected	: 03-DEC-2004 11:30
IDF	: 1.0			Units	: ug/Kg

Prep: 15.24 g --> 10.0 ml = 0.6562 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=337_008	Flags
alpha-BHC	A	804457447001	ND						1.7		?>c
beta-BHC	A	804457447001	ND						1.7		?>c
gamma-BHC	A	804457447001	ND						1.7		?>c
delta-BHC	A	804457447001	ND						1.7		?>c
Heptachlor	A	804457447001	ND						1.7		?>c
Aldrin	A	804457447001	ND						1.7		?>c
Heptachlor epoxide	A	804457447001	ND						1.7		?>c
Endosulfan I	A	804457447001	ND						1.7		?>c
Dieldrin	A	804457447001	ND						3.2		?>c
4,4'-DDE	A	804457447001	ND						3.2		?>c ?>p
Endrin	A	804457447001	ND						3.2		?>c ?>p
Endosulfan II	A	804457447001	ND						3.2		?>c
Endosulfan sulfate	A	804457447001	ND						3.2		?>c
4,4'-DDD	A	804457447001	ND						3.2		?>c ?>p
Endrin ketone	A	804457447001	ND						3.2		?>c ?>p
4,4'-DDT	A	804457447001	ND						3.2		?>c ?>p
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	A	804457447001	ND						1.7		?>c
gamma-Chlordane	A	804457447001	ND						1.7		?>c
Methoxychlor	A	804457447001	ND						17		<c+ ?>c
Toxaphene	A		ND						59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804457447001	13.12	15.58	119	65-135	?>c
Decachlorobiphenyl	A	804457447001	13.12	14.93	114	65-135	?>c

+=high bias <=opening >=closing ?=missing c=CCV p=PEM failure

Analyst: _____ Date: 12/03/04 Reviewer: _____ Date: 12/3/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-003,96997
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 40

Date : 12/3/04 11:53:02 AM
Data Acquisition Time : 12/3/04 11:30:30 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\337a040p.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.397	254837.80	23.7439	0.656	1	15.580
alpha-BHC	7.908	5902.00	0.3422	0.656	1	0.225
gamma-BHC	8.777	3672.09	0.2365	0.656	1	0.155
beta-BHC	9.058	5889.04	0.9108	0.656	1	0.598
delta-BHC	9.517	10974.81	0.7007	0.656	1	0.460
Heptachlor	10.020	0.00	0.0000	0.656	1	0.000
Aldrin	10.815	4638.50	0.3261	0.656	1	0.214
Heptachlor epoxide	12.408	2959.64	0.2263	0.656	1	0.148
gamma-Chlordane	12.695	0.00	0.0000	0.656	1	0.000
alpha-Chlordane	12.990	1976.12	0.1541	0.656	1	0.101
4,4'-DDE	13.287	0.00	0.0000	0.656	1	0.000
Endosulfan I	13.315	4069.71	0.3493	0.656	1	0.229
Dieldrin	13.953	0.00	0.0000	0.656	1	0.000
Endrin	14.516	0.00	0.0000	0.656	1	0.000
4,4'-DDD	14.788	9729.87	0.9264	0.656	1	0.608
Endosulfan II	15.091	4915.80	0.4382	0.656	1	0.288
4,4'-DDT	15.429	7752.79	0.8153	0.656	1	0.535
Endrin aldehyde	16.082	2038.00	0.2317	0.656	1	0.152
Methoxychlor	16.717	2818.51	0.7086	0.656	1	0.465
Endosulfan sulfate	17.195	0.00	0.0000	0.656	1	0.000
Endrin ketone	17.847	0.00	0.0000	0.656	1	0.000
Decachlorobiphenyl	20.316	178908.80	22.7508	0.656	1	14.928
		501083.48	52.8609			34.686

PA
12/03/04

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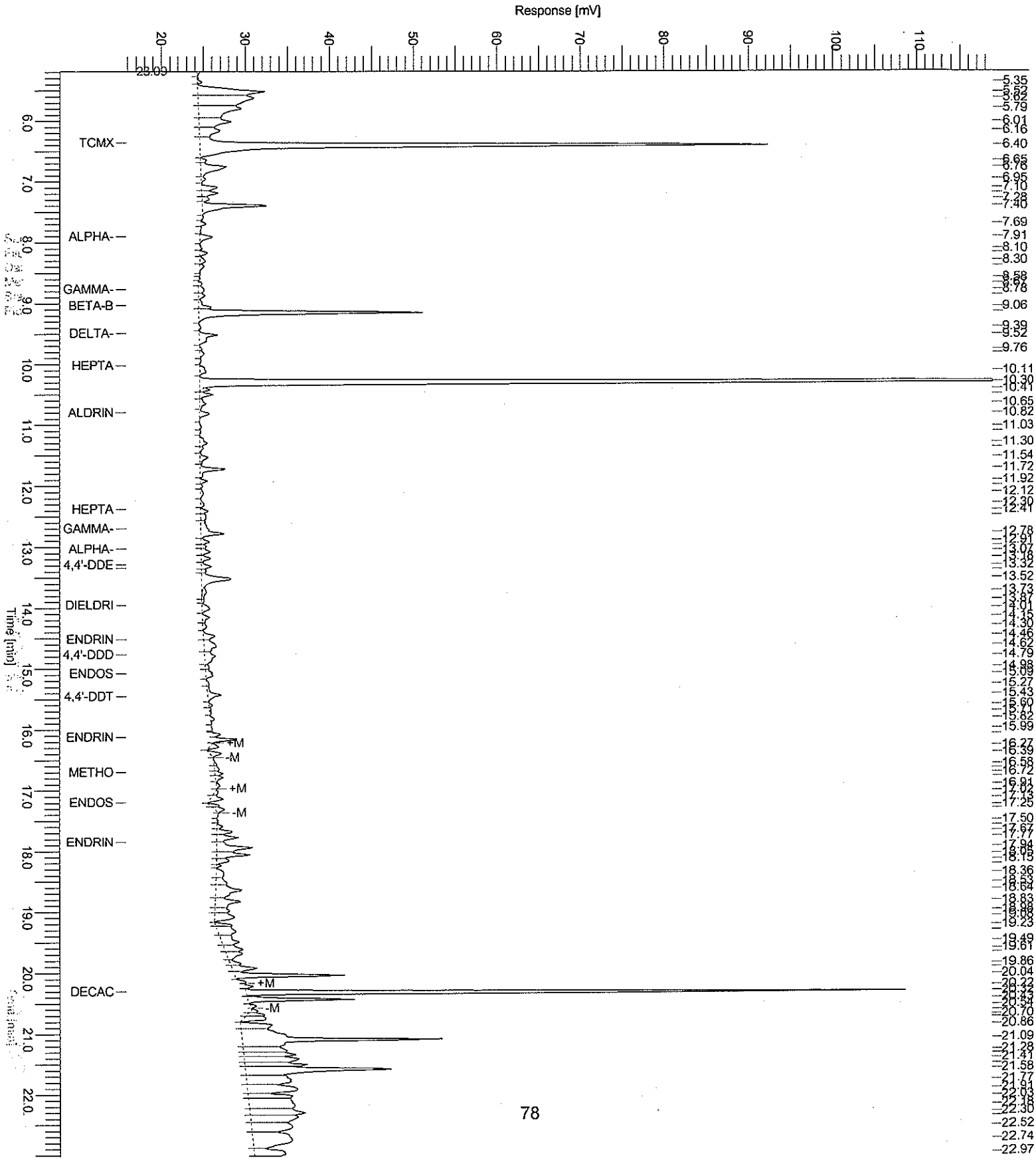
Report stored in ASCII file: G:\gc23\CHA\337a040p.TX0

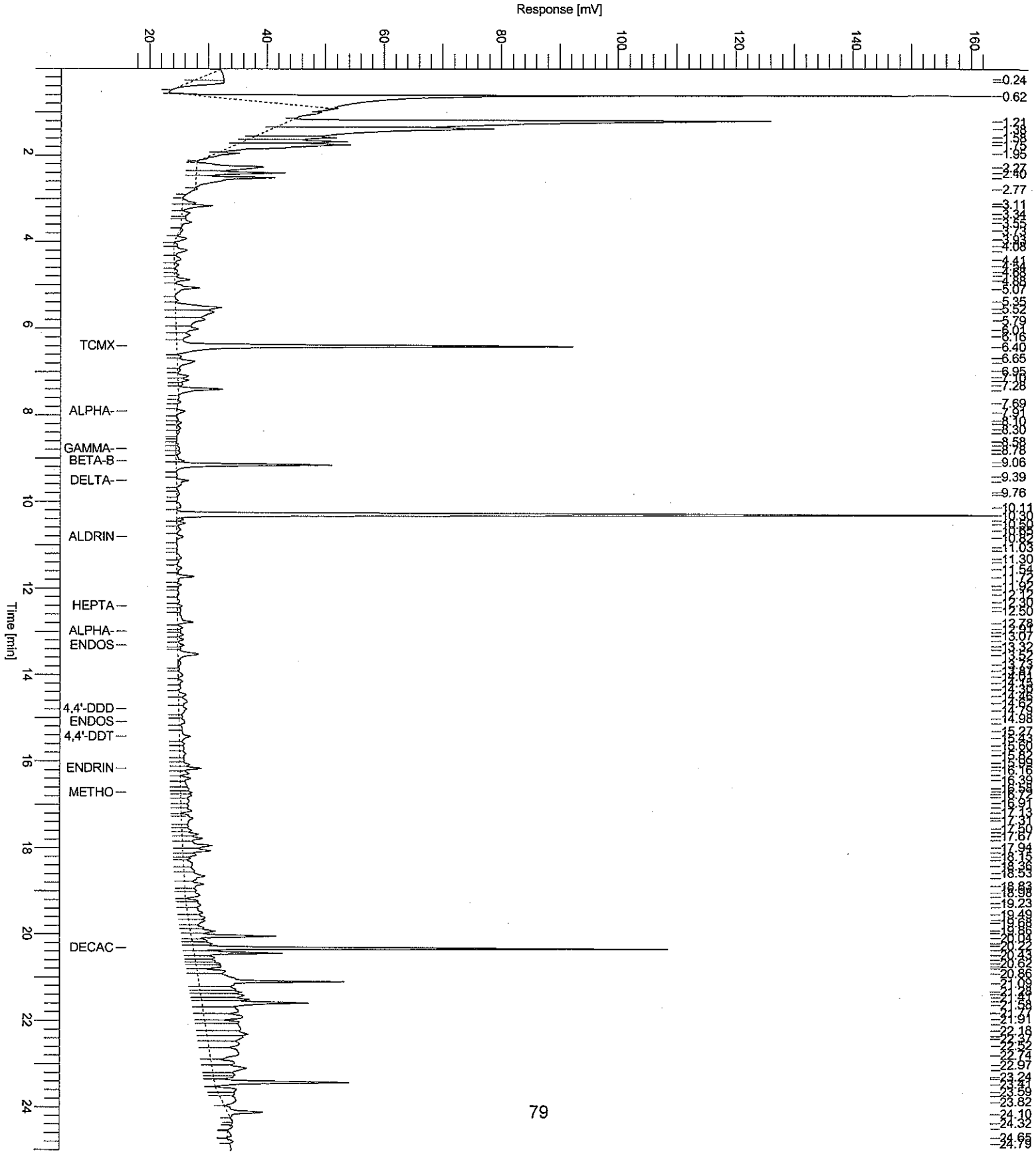
GC23 Rtx-CLPesticides

Sample Name : 176248-003,96997 Sample #: 96997 Page 1 of 1
FileName : G:\gc23\CHa\337a040.raw
Date : 12/3/04 11:53:09 AM
Method : Time of Injection: 12/3/04 11:30:30 AM
Start Time : 5.18 min End Time : 23.02 min Low Point : 15.83 mV High Point : 118.87 mV
Plot Offset: 15.83 mV Plot Scale: 103.0 mV



GC23 Rtx-CLPesticides

Sample Name : 176248-003,96997 Sample #: 96997 Page 1 of 1
FileName : G:\gc23\CHa\337a040.raw
Date : 12/3/04 11:49:38 AM
Method : gc23ins Time of Injection: 12/3/04 11:30:30 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 16.20 mV High Point : 163.67 mV
Scale Factor: 1.0 Plot Offset: 16.20 mV Plot Scale: 147.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-003,96997
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 40

Date : 12/3/04 11:49:27 AM
Data Acquisition Time : 12/3/04 11:30:30 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\337b040.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.735	281145.90	19.0520	0.656	1	12.501
alpha-BHC	8.362	583.68	0.0245	0.656	1	0.016
gamma-BHC	9.304	1153.84	0.0532	0.656	1	0.035
beta-BHC	9.517	83700.14	9.1796	0.656	1	6.023
delta-BHC	10.291	4985.00	0.2312	0.656	1	0.152
Heptachlor	10.413	0.00	0.0000	0.656	1	0.000
Aldrin	11.221	0.00	0.0000	0.656	1	0.000
Heptachlor epoxide	12.698	6210.11	0.3330	0.656	1	0.218
gamma-Chlordane	13.195	7427.69	0.4008	0.656	1	0.263
alpha-Chlordane	13.547	4738.86	0.2653	0.656	1	0.174
Endosulfan I	13.648	0.00	0.0000	0.656	1	0.000
4,4'-DDE	14.040	4447.16	0.2527	0.656	1	0.166
Dieldrin	14.374	2527.05	0.1424	0.656	1	0.093
Endrin	15.060	1944.84	0.1341	0.656	1	0.088
4,4'-DDD	15.438	0.00	0.0000	0.656	1	0.000
Endosulfan II	15.602	4654.71	0.3084	0.656	1	0.202
4,4'-DDT	16.218	3856.94	0.2976	0.656	1	0.195
Endrin aldehyde	16.440	3793.38	0.3308	0.656	1	0.217
Endosulfan sulfate	17.056	9048.17	0.6950	0.656	1	0.456
Methoxychlor	17.947	18077.00	3.4836	0.656	1	2.286
Endrin ketone	18.381	1163.00	0.0708	0.656	1	0.046
Decachlorobiphenyl	21.133	209500.50	20.1050	0.656	1	13.192
		648957.95	55.3599			36.325

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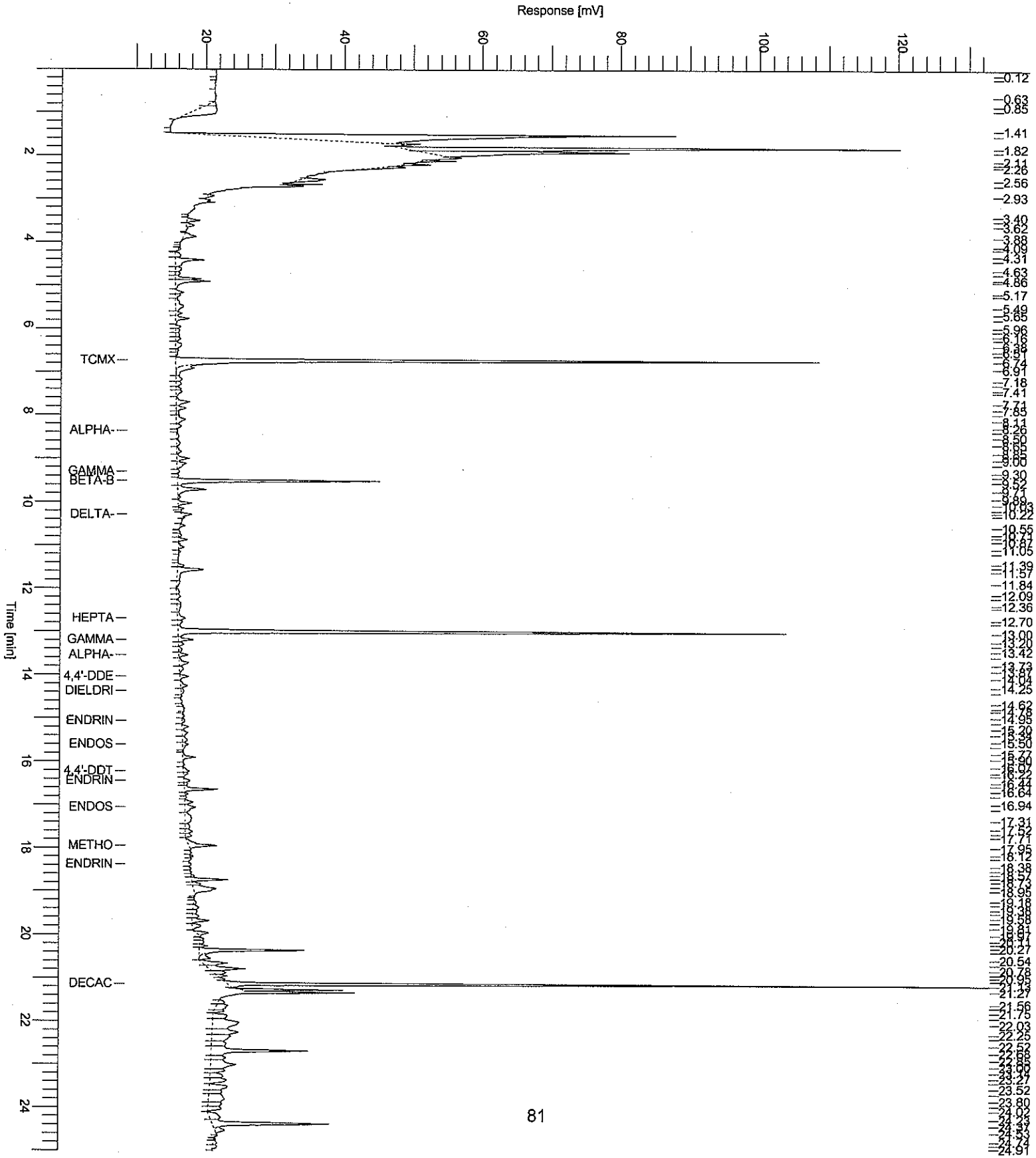
Report stored in ASCII file: G:\gc23\CHB\337b040.TX0

GC23 Rtx-CLPesticides2

Sample Name : 176248-003,96997 Sample #: 96997 Page 1 of 1
FileName : G:\gc23\CHb\337b040
Date : 12/3/04 11:49:31 AM
Method : gc23ins Time of Injection: 12/3/04 11:30:30 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 8.79 mV High Point : 133.50 mV
Scale Factor: 1.0 Plot Offset: 8.79 mV Plot Scale: 124.7 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	176248-004	Cident	: BB3EX151[0.5]
Seqnum	: 804481659015	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 334_015	Batchnum	: 96829	Injected	: 29-NOV-2004 19:45
IDF	: 1.0			Units	: ug/Kg

Prep: 15.20 g --> 10.0 ml = 0.6579 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	B=334_011	Flags
alpha-BHC	A	804457447001	ND					1.7		
beta-BHC	A	804457447001	ND					1.7		>c+
gamma-BHC	A	804457447001	ND					1.7		
delta-BHC	A	804457447001	ND					1.7		
Heptachlor	A	804457447001	ND					1.7		
Aldrin	A	804457447001	ND					1.7		
Heptachlor epoxide	A	804457447001	ND					1.7		
Endosulfan I	A	804457447001	ND					1.7		
Dieldrin	A	804457447001	ND					3.3		
4,4'-DDE	A	804457447001	ND					3.3		
Endrin	A	804457447001	ND					3.3		
Endosulfan II	A	804457447001	ND					3.3		
Endosulfan sulfate	A	804457447001	ND					3.3		
4,4'-DDD	A	804457447001	ND					3.3		>c+
Endrin ketone	A	804457447001	ND					3.3		>c+
4,4'-DDT	A	804457447001	ND					3.3		<c+
Chlordane (Technical)	A		ND					30		
alpha-Chlordane	A	804457447001	ND					1.7		
gamma-Chlordane.....	A	804457447001	1.1 J		0.15	151%		1.7		C x
Methoxychlor	A	804457447001	ND					17		<c+
Toxaphene	A		ND					59		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804457447001	13.16	12.82	97	65-135	
Decachlorobiphenyl	A	804457447001	13.16	12.43	94	65-135	

+=high bias <=opening >=closing C=RPD between columns exceeds 40% c=CCV x=false positive

Analyst: [signature] Date: 11/30/04 Reviewer: [signature] Date: 11/30/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-004,96829
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 11/30/04 8:30:06 AM
Data Acquisition Time : 11/29/04 7:45:22 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a015p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.505	209186.00	19.4904	0.658	1	12.823
alpha-BHC	8.128	5380.77	0.3120	0.658	1	0.205
gamma-BHC	8.918	5701.00	0.3671	0.658	1	0.242
beta-BHC	9.211	12408.16	1.9190	0.658	1	1.263
delta-BHC	9.655	4878.29	0.3114	0.658	1	0.205
Heptachlor	10.214	4135.55	0.3026	0.658	1	0.199
Aldrin	10.987	0.00	0.0000	0.658	1	0.000
Heptachlor epoxide	12.534	9428.07	0.7207	0.658	1	0.474
gamma-Chlordane	12.905	21920.91	1.6602	0.658	1	1.092
alpha-Chlordane	13.185	3686.86	0.2876	0.658	1	0.189
4,4'-DDE	13.459	3148.29	0.2435	0.658	1	0.160
Endosulfan I	13.586	3126.34	0.2684	0.658	1	0.177
Dieldrin	14.122	12042.45	0.9236	0.658	1	0.608
Endrin	14.682	4411.63	0.4084	0.658	1	0.269
4,4'-DDD	14.961	0.00	0.0000	0.658	1	0.000
Endosulfan II	15.237	6892.00	0.6144	0.658	1	0.404
4,4'-DDT	15.607	2398.24	0.2522	0.658	1	0.166
Endrin aldehyde	16.299	6083.23	0.6917	0.658	1	0.455
Methoxychlor	16.845	2913.69	0.7326	0.658	1	0.482
Endosulfan sulfate	17.408	3504.00	0.3567	0.658	1	0.235
Endrin ketone	18.066	10609.56	0.9149	0.658	1	0.602
Decachlorobiphenyl	20.437	148561.60	18.8917	0.658	1	12.429
		480416.64	49.6691			32.677

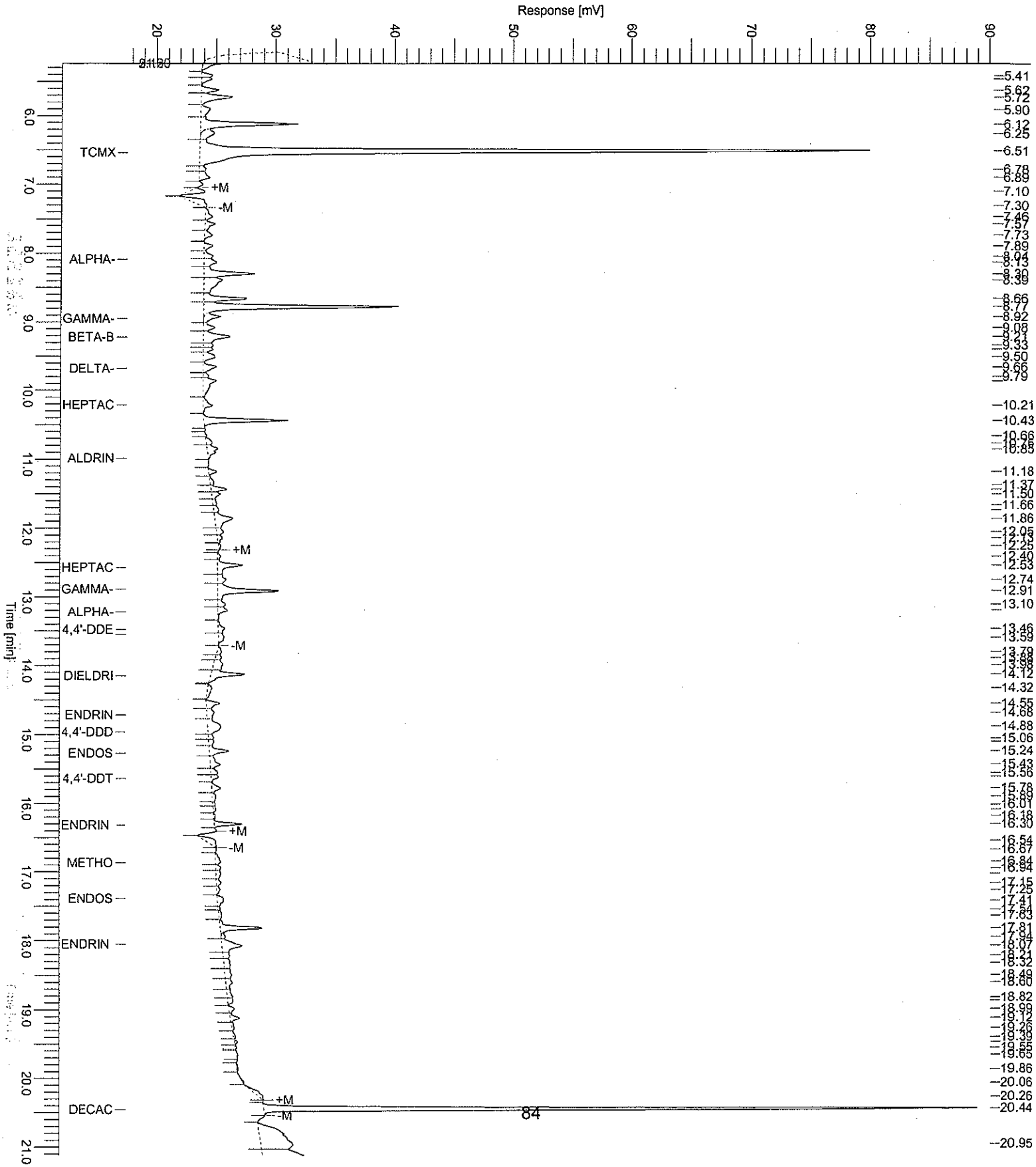
FA 11/30/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\334a015p.TX0

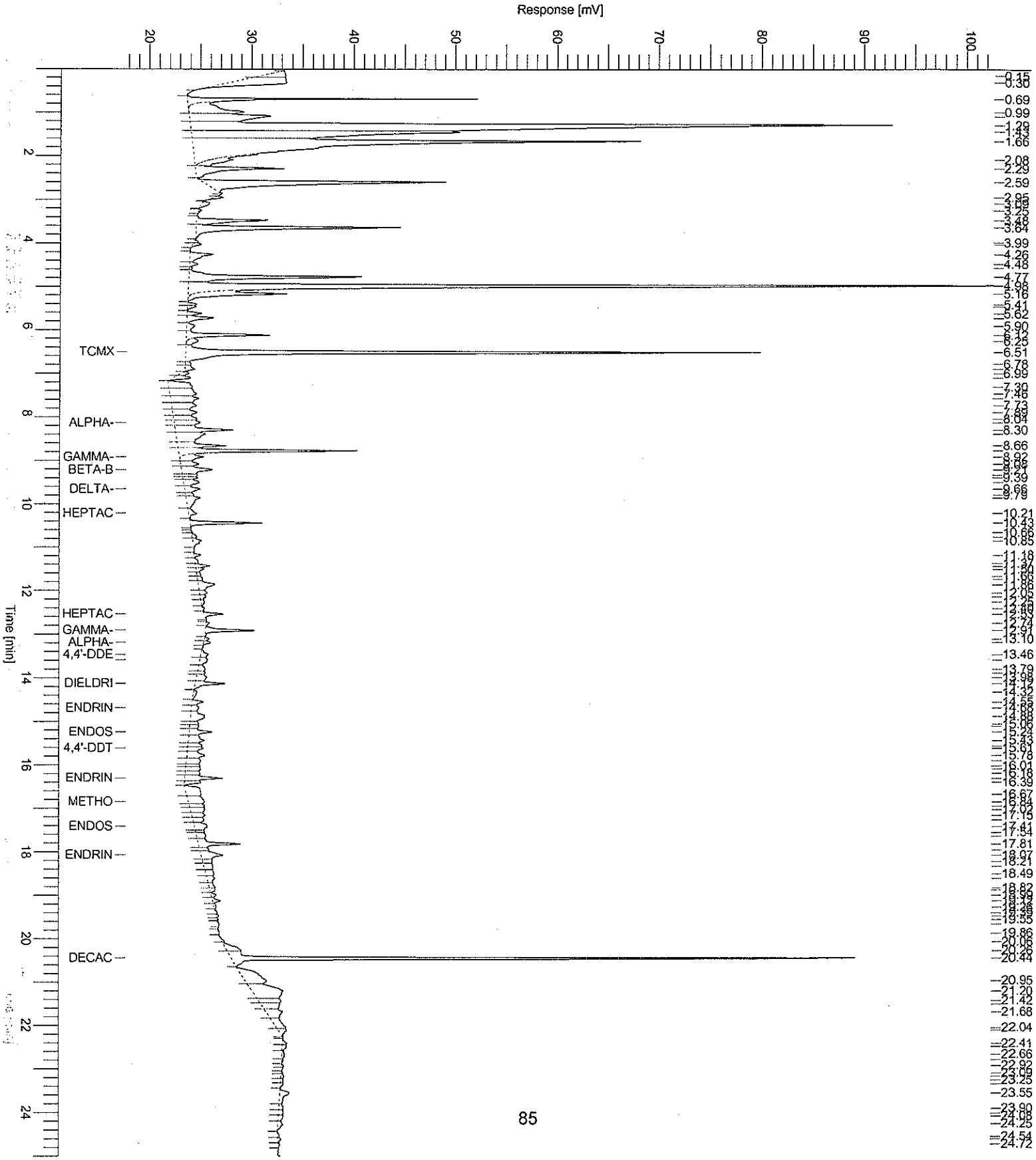
GC23 Rtx-CLPesticides

Sample Name : 176248-004,96829 Sample #: 96829
FileName : G:\gc23\CHa\334a015.raw
Date : 11/30/04 8:30:13 AM
Method :
Time of Injection: 11/29/04 7:45:22 PM
Start Time : 5.23 min End Time : 21.12 min Low Point : 17.61 mV High Point : 90.35 mV
Plot Offset: 17.61 mV Plot Scale: 72.7 mV



GC23 Rtx-CLPesticides

Sample Name : 176248-004,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHa\334a015.raw
Date : 11/30/04 8:17:45 AM
Method : gc23ins Time of Injection: 11/29/04 7:45:22 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 17.82 mV High Point : 102.72 mV
Scale Factor: 1.0 Plot Offset: 17.82 mV Plot Scale: 84.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-004,96829
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 15

Date : 11/30/04 8:49:47 AM
Data Acquisition Time : 11/29/04 7:45:22 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b015p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.851	297975.21	20.1924	0.658	1	13.284
alpha-BHC	8.540	5839.24	0.2447	0.658	1	0.161
gamma-BHC	9.422	6549.15	0.3022	0.658	1	0.199
beta-BHC	9.657	2217.92	0.2432	0.658	1	0.160
delta-BHC	10.426	3274.54	0.1519	0.658	1	0.100
Heptachlor	10.600	7295.36	0.4423	0.658	1	0.291
Aldrin	11.380	711.02	0.0356	0.658	1	0.023
Heptachlor epoxide	12.854	2848.19	0.1527	0.658	1	0.100
gamma-Chlordane	13.318	4266.51	0.2302	0.658	1	0.151
alpha-Chlordane	13.699	5377.02	0.3010	0.658	1	0.198
Endosulfan I	13.827	3949.89	0.2363	0.658	1	0.155
4,4'-DDE	14.183	4216.98	0.2396	0.658	1	0.158
Dieldrin	14.486	11582.25	0.6525	0.658	1	0.429
Endrin	15.249	0.00	0.0000	0.658	1	0.000
4,4'-DDD	15.649	5696.18	0.4097	0.658	1	0.270
Endosulfan II	15.755	3657.04	0.2423	0.658	1	0.159
4,4'-DDT	16.350	3498.76	0.2700	0.658	1	0.178
Endrin aldehyde	16.595	9934.24	0.8662	0.658	1	0.570
Endosulfan sulfate	17.273	84488.14	6.4897	0.658	1	4.270
Methoxychlor	18.085	8444.87	1.6274	0.658	1	1.071
Endrin ketone	18.531	12697.29	0.7728	0.658	1	0.508
Decachlorobiphenyl	21.234	275537.86	26.4423	0.658	1	17.396
		760057.66	60.5452			39.832

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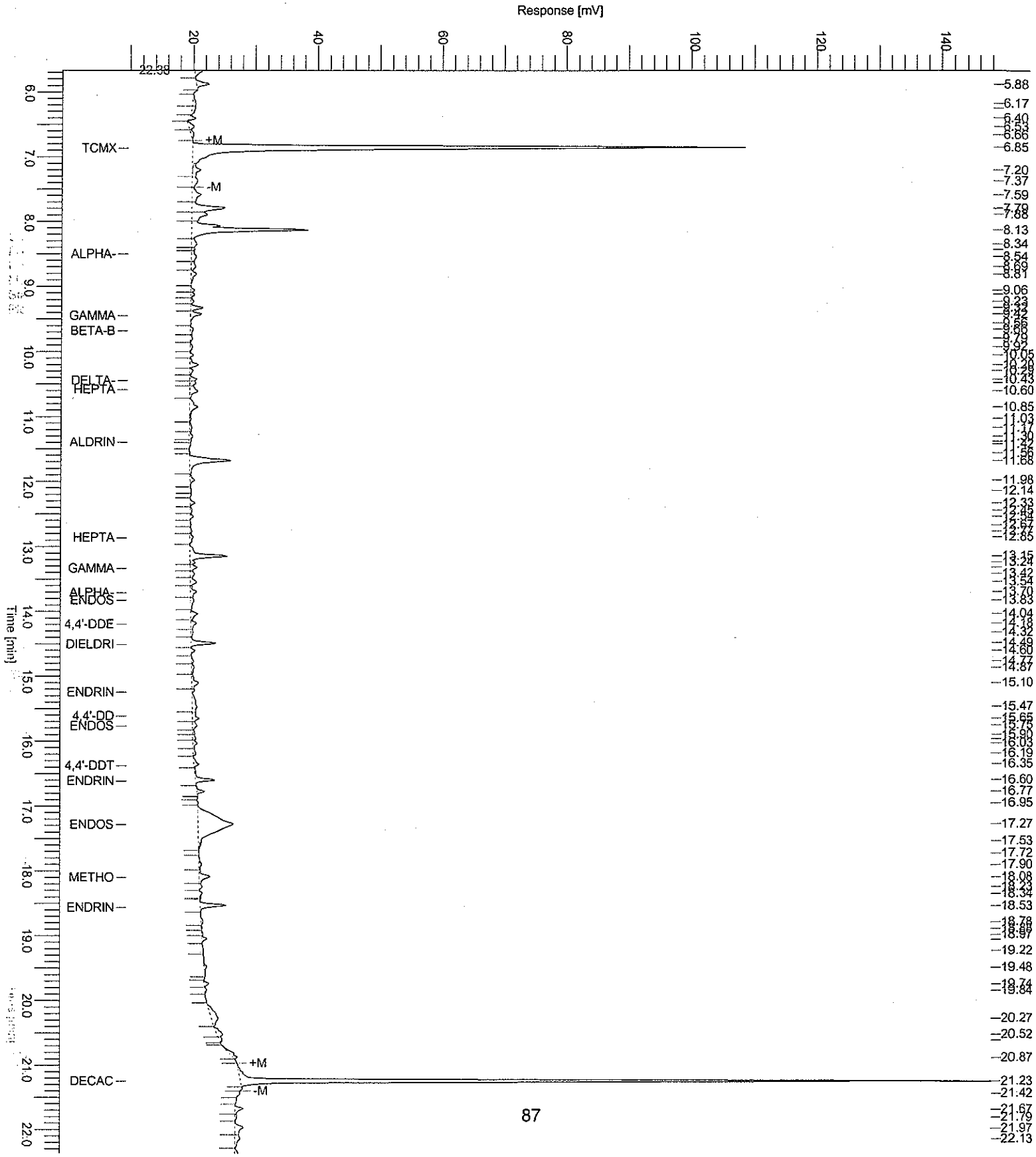
Report stored in ASCII file: G:\gc23\CHB\334b015p.TX0

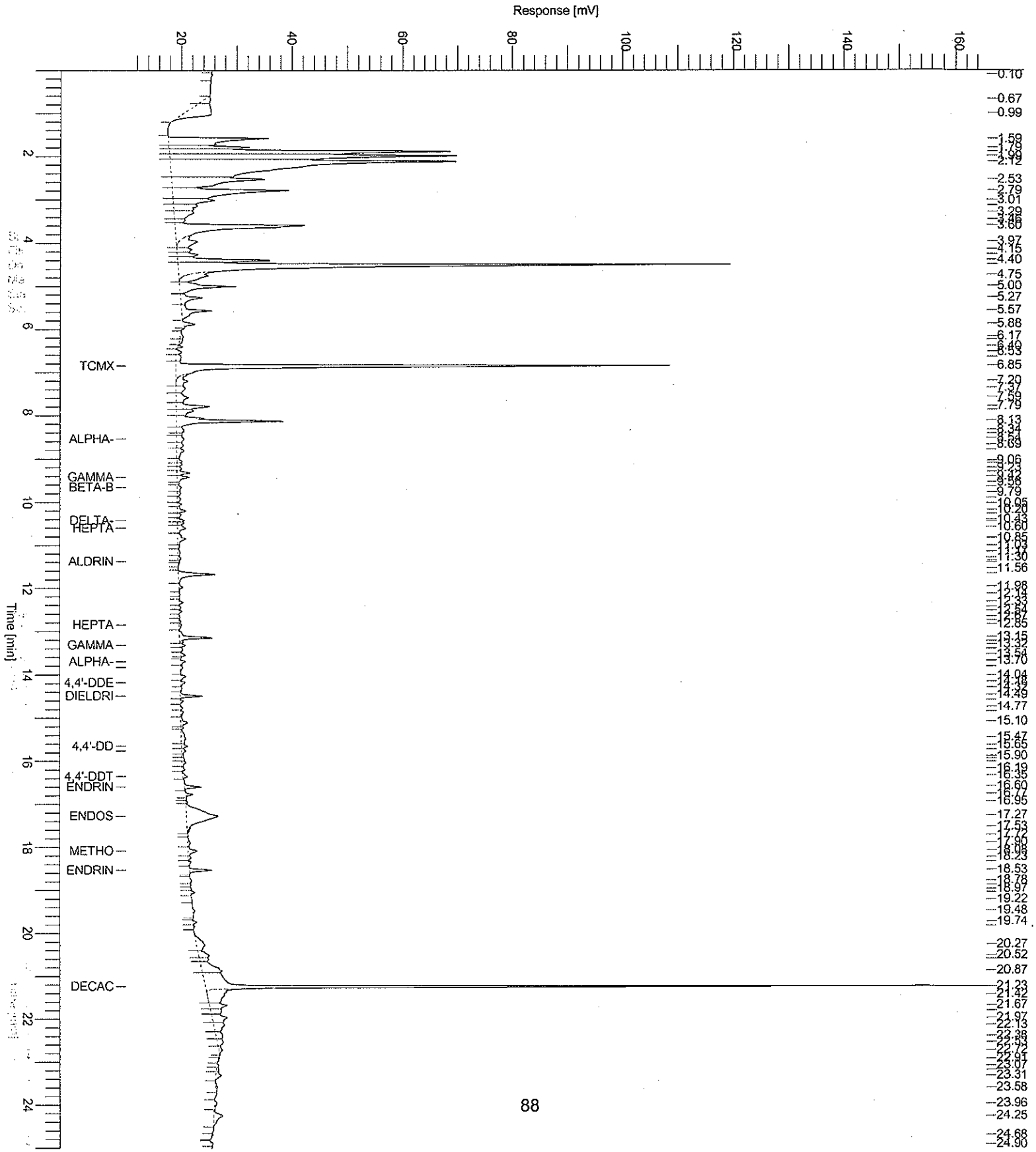
GC23 Rtx-CLPesticides2

Sample Name : 176248-004,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b015.raw
Date : 11/30/04 8:49:53 AM
Method : Time of Injection: 11/29/04 7:45:22 PM
Start Time : 5.67 min End Time : 22.37 min Low Point : 9.66 mV High Point : 148.08 mV
Plot Offset: 9.66 mV Plot Scale: 138.4 mV



GC23 Rtx-CLPesticides2

Sample Name : 176248-004,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b015
Date : 11/30/04 8:18:00 AM
Method : gc23ins Time of Injection: 11/29/04 7:45:22 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.05 mV High Point : 165.78 mV
Scale Factor: 1.0 Plot Offset: 10.05 mV Plot Scale: 155.7 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	176248-005	Cident	: BB3EX152[0.5]
Seqnum	: 804481659016	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 334_016	Batchnum	: 96829	Injected	: 29-NOV-2004 20:13
IDF	: 1.0			Units	: ug/Kg

Prep: 15.00 g --> 10.0 ml = 0.6667 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	B=334_011	Flags
alpha-BHC	A	804457447001	ND						1.7		
beta-BHC	A	804457447001	ND						1.7		>c+
gamma-BHC	A	804457447001	ND						1.7		
delta-BHC	A	804457447001	ND						1.7		
Heptachlor	A	804457447001	ND						1.7		
Aldrin	A	804457447001	ND						1.7		
Heptachlor epoxide	A	804457447001	ND						1.7		
Endosulfan I	A	804457447001	ND						1.7		
Dieldrin	A	804457447001	ND						3.3		
4,4'-DDE	A	804457447001	ND						3.3		
Endrin	A	804457447001	ND						3.3		
Endosulfan II	A	804457447001	ND						3.3		
Endosulfan sulfate	A	804457447001	ND						3.3		
4,4'-DDD	A	804457447001	ND						3.3		>c+
Endrin ketone	A	804457447001	ND						3.3		>c+
4,4'-DDT	A	804457447001	ND						3.3		<c+
Chlordane (Technical)	A		ND						30		
alpha-Chlordane	A	804457447001	ND						1.7		
gamma-Chlordane	A	804457447001	ND						1.7		
Methoxychlor	A	804457447001	ND						17		<c+
Toxaphene	A		ND						60		

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804457447001	13.33	10.17	76	65-135	
Decachlorobiphenyl	A	804457447001	13.33	10.47	79	65-135	

+=high bias <=opening >=closing c=CCV

Analyst: [illegible] Date: 11/30/04 Reviewer: [illegible] Date: 11/30/04

Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96829
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 11/30/04 8:31:17 AM
Data Acquisition Time : 11/29/04 8:13:40 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a016p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.512	163665.91	15.2492	0.667	1	10.166
alpha-BHC	8.123	9760.12	0.5659	0.667	1	0.377
gamma-BHC	8.912	338.00	0.0218	0.667	1	0.015
beta-BHC	9.218	8534.94	1.3200	0.667	1	0.880
delta-BHC	9.680	3325.76	0.2123	0.667	1	0.142
Heptachlor	10.228	2777.14	0.2032	0.667	1	0.135
Aldrin	10.987	0.00	0.0000	0.667	1	0.000
Heptachlor epoxide	12.548	4121.99	0.3151	0.667	1	0.210
gamma-Chlordane	12.913	6955.50	0.5268	0.667	1	0.351
alpha-Chlordane	13.197	1647.44	0.1285	0.667	1	0.086
4,4'-DDE	13.470	519.79	0.0402	0.667	1	0.027
Endosulfan I	13.539	783.31	0.0672	0.667	1	0.045
Dieldrin	14.137	1418.53	0.1088	0.667	1	0.073
Endrin	14.693	2279.96	0.2110	0.667	1	0.141
4,4'-DDD	14.927	5697.73	0.5425	0.667	1	0.362
Endosulfan II	15.251	2847.46	0.2539	0.667	1	0.169
4,4'-DDT	15.612	1121.19	0.1179	0.667	1	0.079
Endrin aldehyde	16.303	11367.68	1.2927	0.667	1	0.862
Methoxychlor	16.865	2848.95	0.7163	0.667	1	0.478
Endosulfan sulfate	17.427	2478.50	0.2523	0.667	1	0.168
Endrin ketone	18.072	9612.40	0.8289	0.667	1	0.553
Decachlorobiphenyl	20.446	123487.44	15.7032	0.667	1	10.469
		365589.74	38.6775			25.785

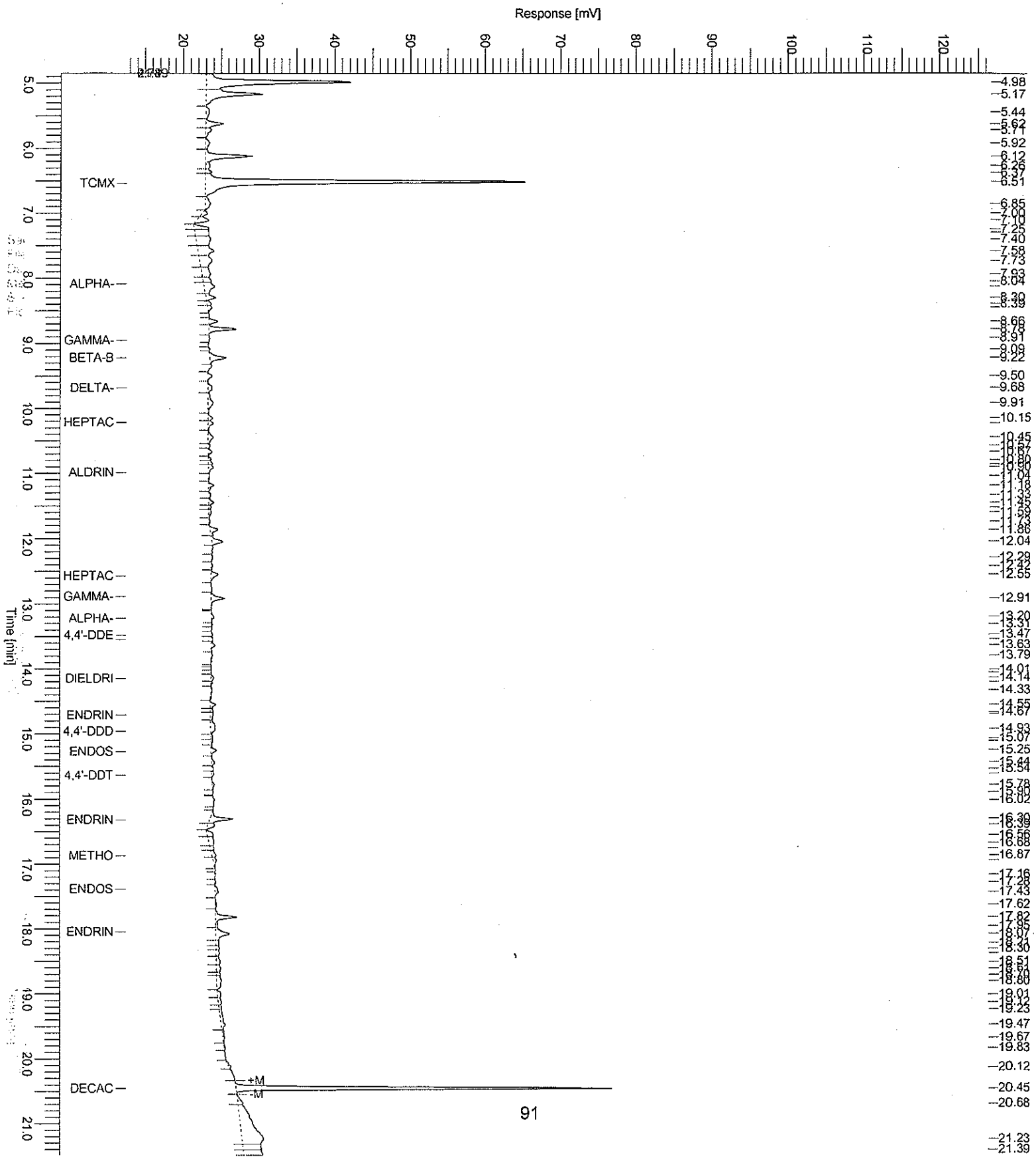
PA 11/30/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\334a016p.TX0

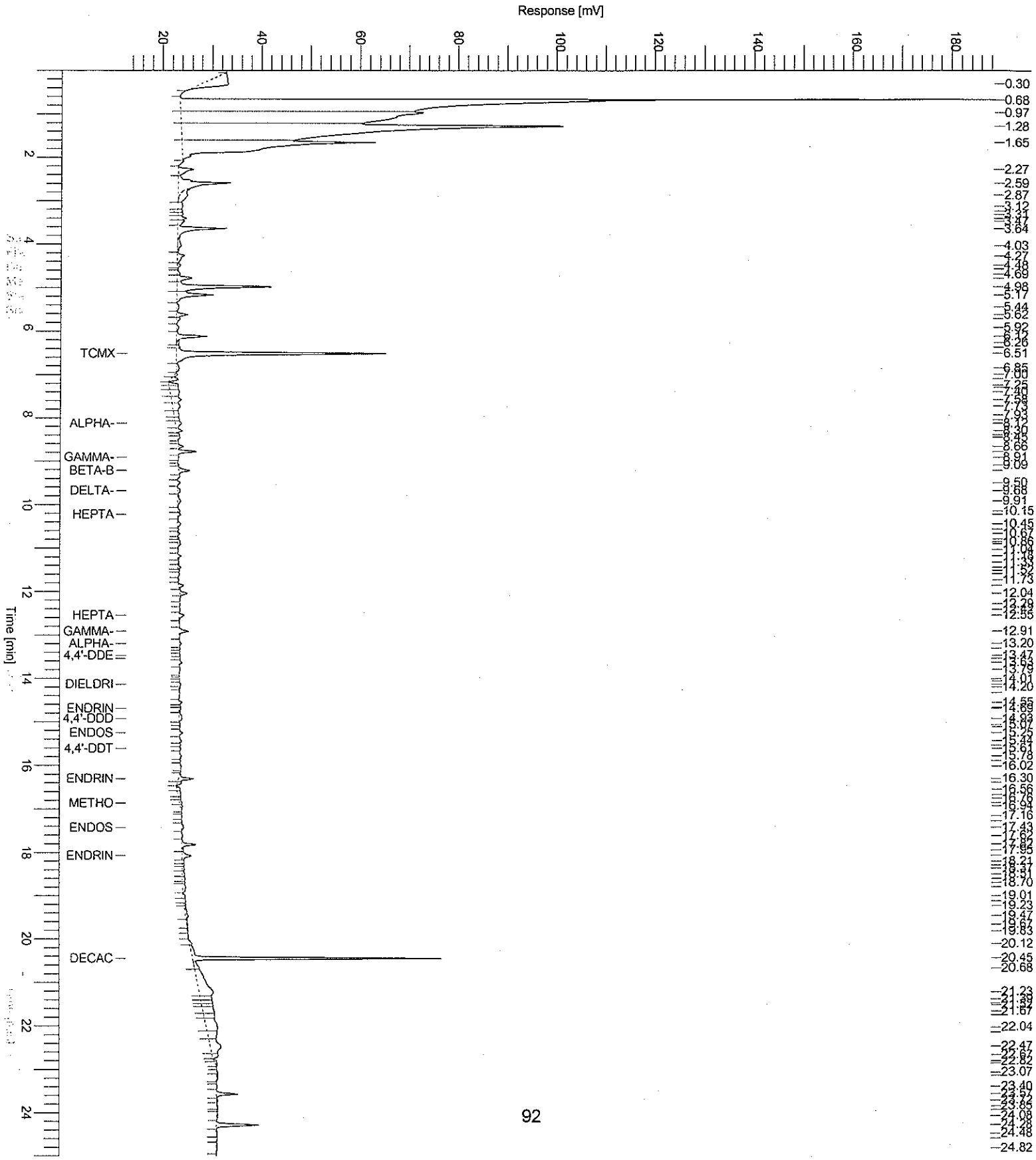
GC23 Rtx-CLPesticides

Sample Name : 176248-005,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHa\334a016.raw
Date : 11/30/04 8:31:24 AM
Method : Time of Injection: 11/29/04 8:13:40 PM
Start Time : 4.85 min End Time : 21.48 min Low Point : 12.56 mV High Point : 126.66 mV
Plot Offset: 12.56 mV Plot Scale: 114.1 mV



GC23 Rtx-CLPesticides

Sample Name : 176248-005,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHa\334a016.raw
Date : 11/30/04 8:17:52 AM
Method : gc23ins Time of Injection: 11/29/04 8:13:40 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 13.00 mV High Point : 188.55 mV
Scale Factor: 1.0 Plot Offset: 13.00 mV Plot Scale: 175.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : 176248-005,96829
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 11/30/04 8:51:23 AM
Data Acquisition Time : 11/29/04 8:13:40 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b016p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.851	248855.52	16.8638	0.667	1	11.243
alpha-BHC	8.528	1162.81	0.0487	0.667	1	0.032
gamma-BHC	9.449	0.00	0.0000	0.667	1	0.000
beta-BHC	9.656	926.32	0.1016	0.667	1	0.068
delta-BHC	10.444	1874.12	0.0869	0.667	1	0.058
Heptachlor	10.569	3530.53	0.2140	0.667	1	0.143
Aldrin	11.387	1541.85	0.0772	0.667	1	0.051
Heptachlor epoxide	12.875	7702.14	0.4129	0.667	1	0.275
gamma-Chlordane	13.336	0.00	0.0000	0.667	1	0.000
alpha-Chlordane	13.712	4818.61	0.2698	0.667	1	0.180
Endosulfan I	13.848	2953.57	0.1767	0.667	1	0.118
4,4'-DDE	14.191	2629.67	0.1494	0.667	1	0.100
Dieldrin	14.496	786.41	0.0443	0.667	1	0.030
Endrin	15.249	0.00	0.0000	0.667	1	0.000
4,4'-DDD	15.651	9134.44	0.6570	0.667	1	0.438
Endosulfan II	15.767	4838.27	0.3206	0.667	1	0.214
4,4'-DDT	16.342	4056.52	0.3130	0.667	1	0.209
Endrin aldehyde	16.600	6738.69	0.5876	0.667	1	0.392
Endosulfan sulfate	17.273	1377.02	0.1058	0.667	1	0.071
Methoxychlor	18.092	8880.00	1.7113	0.667	1	1.141
Endrin ketone	18.533	25657.00	1.5616	0.667	1	1.041
Decachlorobiphenyl	21.235	255399.45	24.5097	0.667	1	16.340
		592862.93	48.2119			32.141

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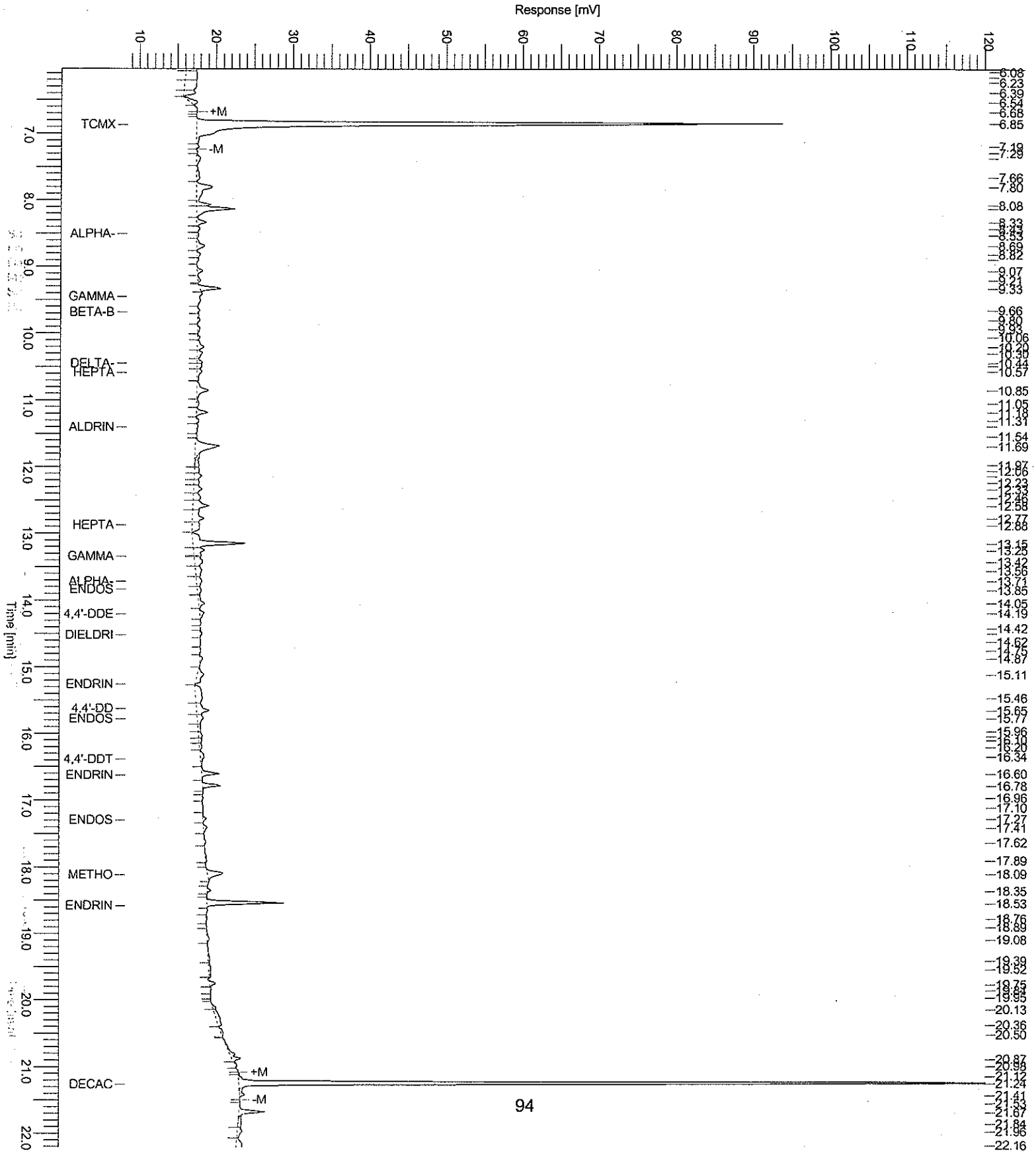
Report stored in ASCII file: G:\gc23\CHB\334b016p.TX0

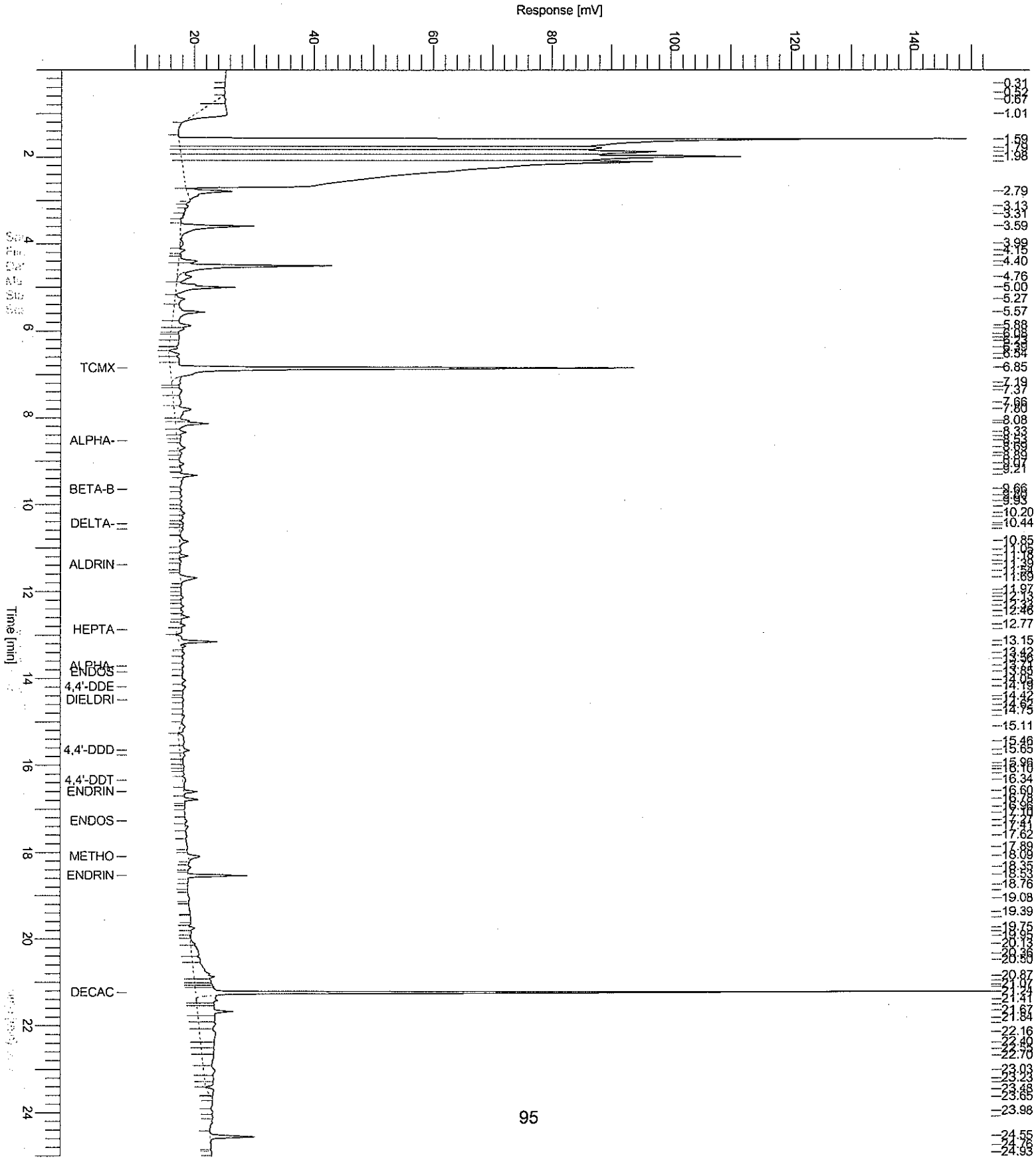
GC23 Rtx-CLPesticides2

Sample Name : 176248-005,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b016.raw
Date : 11/30/04 8:51:31 AM
Method : Time of Injection: 11/29/04 8:13:40 PM
Start Time : 6.03 min End Time : 22.22 min Low Point : 8.42 mV High Point : 120.56 mV
Plot Offset: 8.42 mV Plot Scale: 112.1 mV



GC23 Rtx-CLPesticides2

Sample Name : 176248-005,96829 Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b016
Date : 11/30/04 8:18:08 AM
Method : gc23ins Time of Injection: 11/29/04 8:13:40 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 8.78 mV High Point : 153.78 mV
Scale Factor: 1.0 Plot Offset: 8.78 mV Plot Scale: 145.0 mV



QC RAW DATA

BLANK USER REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC23	Samplenum:	QC273650	Cident	:
Seqnum	: 804481659011	Matrix	: Soil	Acctnum	: TREADWELL
Filename	: 334_011	Batchnum	: 96829	Injected	: 29-NOV-2004 15:54
IDF	: 1.0			Units	: ug/Kg

Prep: 14.92 g --> 10.0 ml = 0.6702 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf Result	RPD	RTS	RL	Flags
gamma-BHC	A	804457447001	ND					1.7	u
Heptachlor	A	804457447001	ND					1.7	u
Aldrin	A	804457447001	ND					1.7	u
Dieldrin	A	804457447001	ND					3.3	u
Endrin	A	804457447001	ND					3.3	u
4,4'-DDT	A	804457447001	ND					3.3	<c+ u
alpha-BHC	A	804457447001	ND					1.7	u
beta-BHC	B	804457447001	ND					1.7	u
delta-BHC	A	804457447001	ND					1.7	u
Heptachlor epoxide	A	804457447001	ND					1.7	u
gamma-Chlordane	A	804457447001	ND					1.7	u
alpha-Chlordane	A	804457447001	ND					1.7	u
Endosulfan I	A	804457447001	ND					1.7	u
4,4'-DDE	A	804457447001	ND					3.3	u
Endosulfan II	A	804457447001	ND					3.3	u
Endosulfan sulfate	A	804457447001	ND					3.3	u
4,4'-DDD	A	804457447001	ND					3.3	>c+ u
Endrin ketone.....	B	804457447001	4.7		0.45	165%		3.3	C u x
Chlordane (Technical)	A		ND					30	u
Methoxychlor	B	804457447001	ND					17	u
Toxaphene	A		ND					60	u

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804457447001	13.40	8.328	62*	65-135	u
Decachlorobiphenyl	A	804457447001	13.40	10.94	82	65-135	u

+=high bias <=opening >=closing C=RPD between columns exceeds 40% c=CCV u=use x=false positive

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23
Seqnum : 804481659011
Filename : 334_011
IDF : 1.0

Samplenum: QC273650
Matrix : Soil
Batchnum : 96829

Cident :
Acctnum : QC
Injected : 29-NOV-2004 15:54
Units : ug/Kg

Prep: 14.92 g --> 10.0 ml = 0.6702 ml/g PDF

Analyte	Ch	Calibration	Result	RTS	Conf	Result	RPD	RTS	RL	Flags
gamma-BHC	A	804457447001	ND						1.7	
Heptachlor	A	804457447001	ND						1.7	
Aldrin	A	804457447001	ND						1.7	
Dieldrin	A	804457447001	ND						3.3	
Endrin	A	804457447001	ND						3.3	
4,4'-DDT	A	804457447001	ND						3.3	<c+
alpha-BHC	A	804457447001	ND						1.7	
beta-BHC	B	804457447001	ND						1.7	
delta-BHC	A	804457447001	ND						1.7	
Heptachlor epoxide	A	804457447001	ND						1.7	
gamma-Chlordane	A	804457447001	ND						1.7	
alpha-Chlordane	A	804457447001	ND						1.7	
Endosulfan I	A	804457447001	ND						1.7	
4,4'-DDE	A	804457447001	ND						3.3	
Endosulfan II	A	804457447001	ND						3.3	
Endosulfan sulfate	A	804457447001	ND						3.3	
4,4'-DDD	A	804457447001	ND						3.3	>c+
Endrin aldehyde	A	804457447001	ND						3.3	
Endrin ketone.....	B	804457447001	4.7			0.45	165%		3.3	C x
Chlordane (Technical)	A		ND						30	
Methoxychlor	B	804457447001	ND						17	
Toxaphene	A		ND						60	

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	804457447001	13.40	8.328	62	41-137	
Decachlorobiphenyl	A	804457447001	13.40	10.94	82	42-160	

FA 11/30/04

12/6/04

+=high bias <=opening >=closing C=RPD between columns exceeds 40% c=CCV x=false positive

Software Version : 6.1.2.0.1:D19
Sample Name : qc273650,96829,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : ~~10~~ 11 FA 11/30/04

Date : 11/30/04 8:21:42 AM
Data Acquisition Time : 11/29/04 3:54:57 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a011p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.517	133353.15	12.4249	0.670	1	8.328
alpha-BHC	8.062	4010.88	0.2325	0.670	1	0.156
gamma-BHC	8.907	5848.10	0.3766	0.670	1	0.252
beta-BHC	9.187	22855.49	3.5348	0.670	1	2.369
delta-BHC	9.696	7562.93	0.4828	0.670	1	0.324
Heptachlor	10.168	11963.87	0.8754	0.670	1	0.587
Aldrin	10.987	0.00	0.0000	0.670	1	0.000
Heptachlor epoxide	12.554	4919.61	0.3761	0.670	1	0.252
gamma-Chlordane	12.916	7447.38	0.5640	0.670	1	0.378
alpha-Chlordane	13.213	1900.81	0.1483	0.670	1	0.099
4,4'-DDE	13.453	2181.07	0.1687	0.670	1	0.113
Endosulfan I	13.546	0.00	0.0000	0.670	1	0.000
Dieldrin	14.145	2237.25	0.1716	0.670	1	0.115
Endrin	14.678	2309.97	0.2138	0.670	1	0.143
4,4'-DDD	14.949	3138.50	0.2988	0.670	1	0.200
Endosulfan II	15.255	2817.85	0.2512	0.670	1	0.168
4,4'-DDT	15.628	1463.91	0.1540	0.670	1	0.103
Endrin aldehyde	16.313	8424.00	0.9579	0.670	1	0.642
Methoxychlor	16.863	1555.34	0.3910	0.670	1	0.262
Endosulfan sulfate	17.397	1447.35	0.1473	0.670	1	0.099
Endrin ketone	18.080	7806.65	0.6732	0.670	1	0.451
Decachlorobiphenyl	20.450	128362.66	16.3231	0.670	1	10.940
		361606.79	38.7661			25.983

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\334a011p.TX0

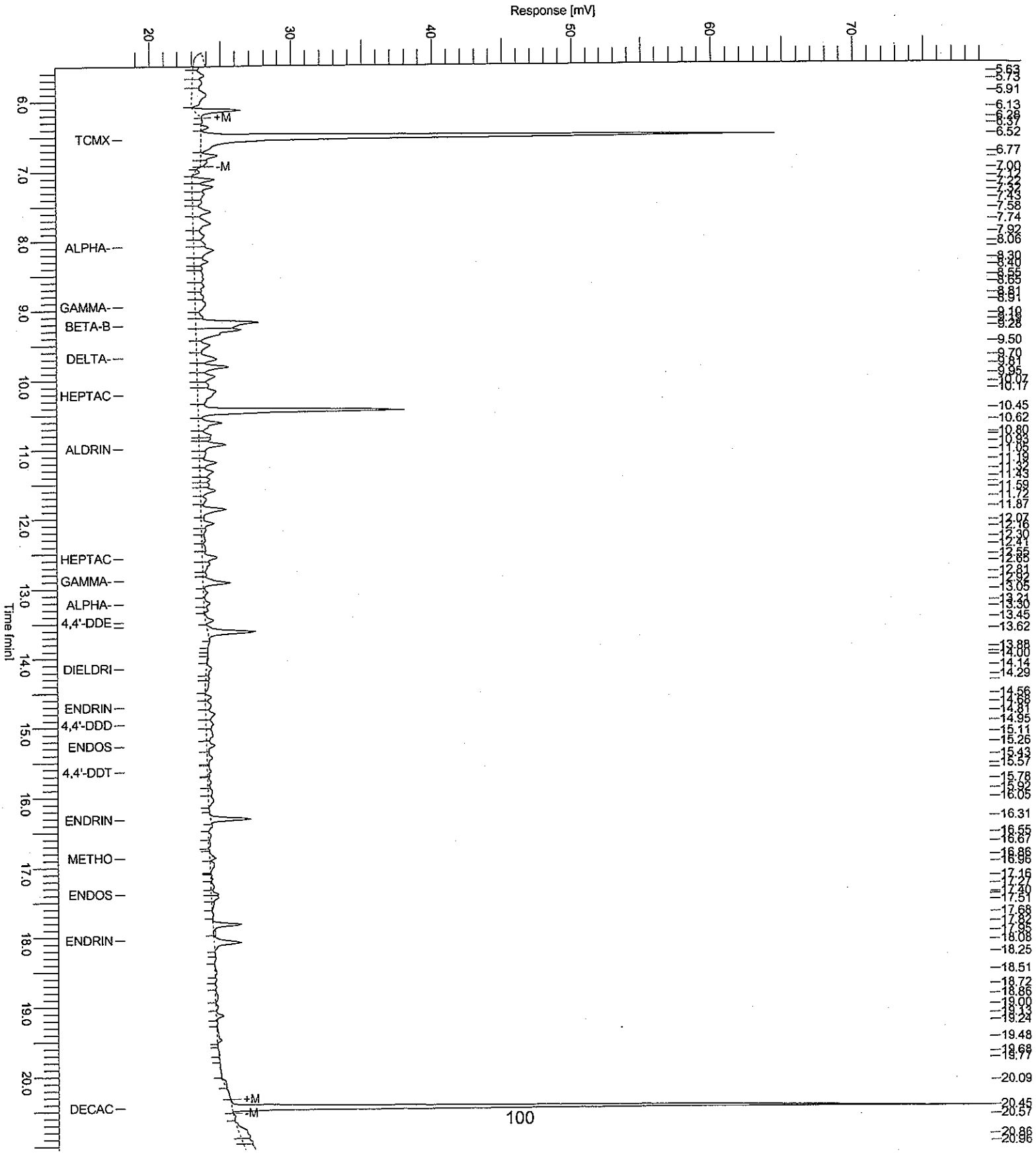
FA 11/30/04

GC23 Rtx-CLPesticides

Sample Name : qc273650,96829,mb
FileName : G:\gc23\CHa\334a011.raw
Date : 11/30/04 8:21:47 AM
Method :
Start Time : 5.50 min
Plot Offset: 18.03 mV

Sample #: 96829

Time of Injection: 11/29/04 3:54:57 PM
End Time : 21.05 min
Low Point : 18.03 mV
High Point : 79.47 mV
Plot Scale: 61.4 mV

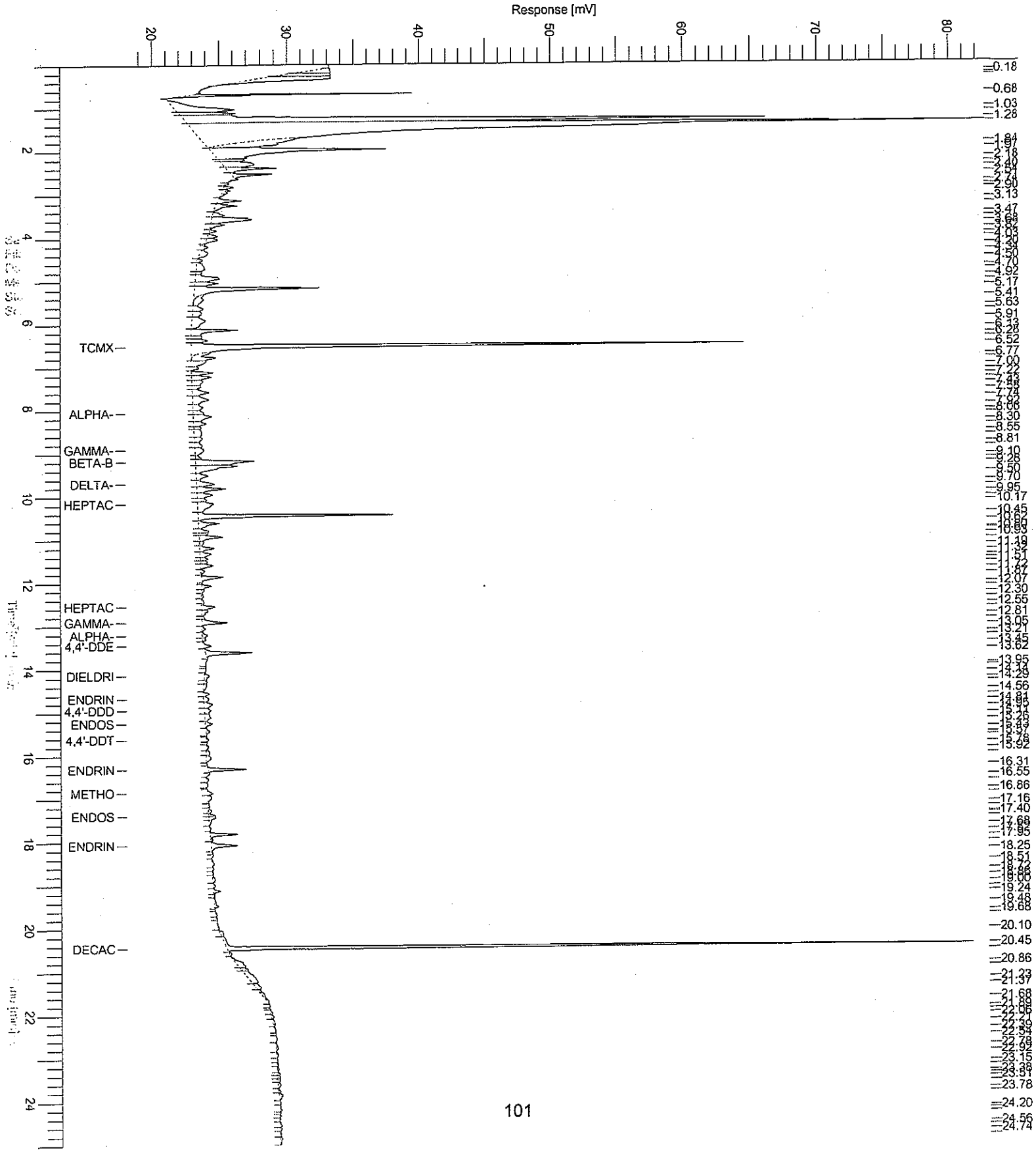


GC23 Rtx-CLPesticides

Sample Name : qc273650,96829,mb
FileName : G:\gc23\CHa\334a011.raw
Date : 11/30/04 8:05:04 AM
Method : gc23ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96829
Page 1 of 1

Time of Injection: 11/29/04 3:54:57 PM
End Time : 25.00 min
Low Point : 18.02 mV
High Point : 82.68 mV
Plot Offset: 18.02 mV
Plot Scale: 64.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273650,96829,mb
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 11/30/04 8:37:44 AM
Data Acquisition Time : 11/29/04 3:54:57 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b011p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.864	188014.89	12.7409	0.670	1	8.539
alpha-BHC	8.530	1381.90	0.0579	0.670	1	0.039
gamma-BHC	9.494	786.00	0.0363	0.670	1	0.024
beta-BHC	9.673	944.51	0.1036	0.670	1	0.069
delta-BHC	10.434	3827.76	0.1775	0.670	1	0.119
Heptachlor	10.584	0.00	0.0000	0.670	1	0.000
Aldrin	11.393	727.98	0.0364	0.670	1	0.024
Heptachlor epoxide	12.867	0.00	0.0000	0.670	1	0.000
gamma-Chlordane	13.337	1690.19	0.0912	0.670	1	0.061
alpha-Chlordane	13.709	2505.94	0.1403	0.670	1	0.094
Endosulfan I	13.828	0.00	0.0000	0.670	1	0.000
4,4'-DDE	14.201	2452.27	0.1394	0.670	1	0.093
Dieldrin	14.502	1395.40	0.0786	0.670	1	0.053
Endrin	15.257	1017.48	0.0701	0.670	1	0.047
4,4'-DDD	15.662	15610.44	1.1228	0.670	1	0.753
Endosulfan II	15.764	1672.00	0.1108	0.670	1	0.074
4,4'-DDT	16.364	2469.17	0.1905	0.670	1	0.128
Endrin aldehyde	16.599	16967.79	1.4795	0.670	1	0.992
Endosulfan sulfate	17.283	2545.68	0.1955	0.670	1	0.131
Methoxychlor	18.100	11095.19	2.1382	0.670	1	1.433
Endrin ketone	18.536	115035.53	7.0016	0.670	1	4.693
Decachlorobiphenyl	21.237	189895.91	18.2236	0.670	1	12.214
		560036.03	44.1348			29.581

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\334b011p.TX0

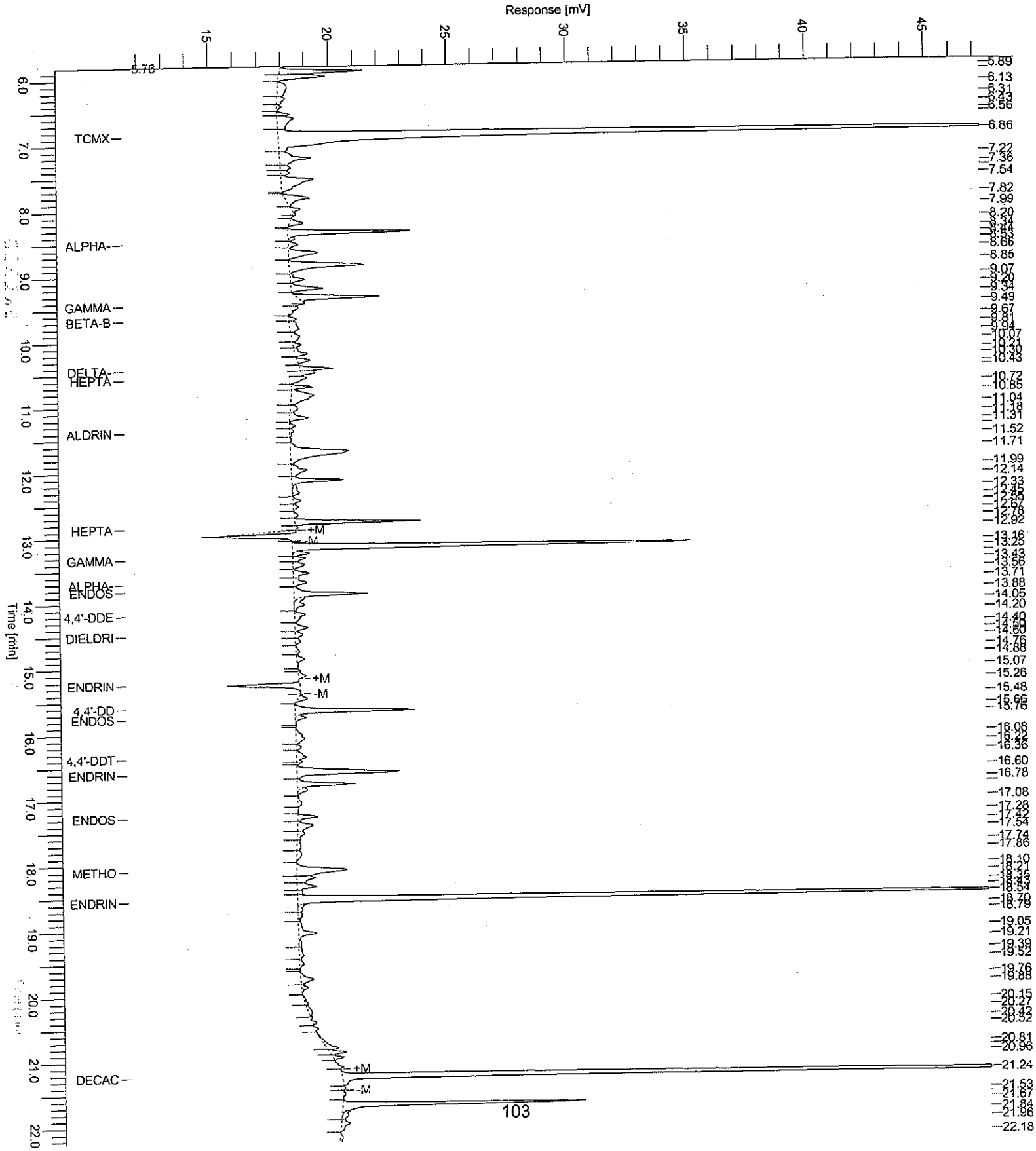
GC23 Rtx-CLPesticides2

Sample Name : qc273650,96829,mb
FileName : G:\gc23\CHb\334b011.raw
Date : 11/30/04 8:37:50 AM
Method :
Start Time : 5.82 min
Plot Offset: 11.42 mV

Sample #: 96829

Page 1 of 1

Time of Injection: 11/29/04 3:54:57 PM
End Time : 22.25 min
Low Point : 11.42 mV
High Point : 47.26 mV
Plot Scale: 35.8 mV

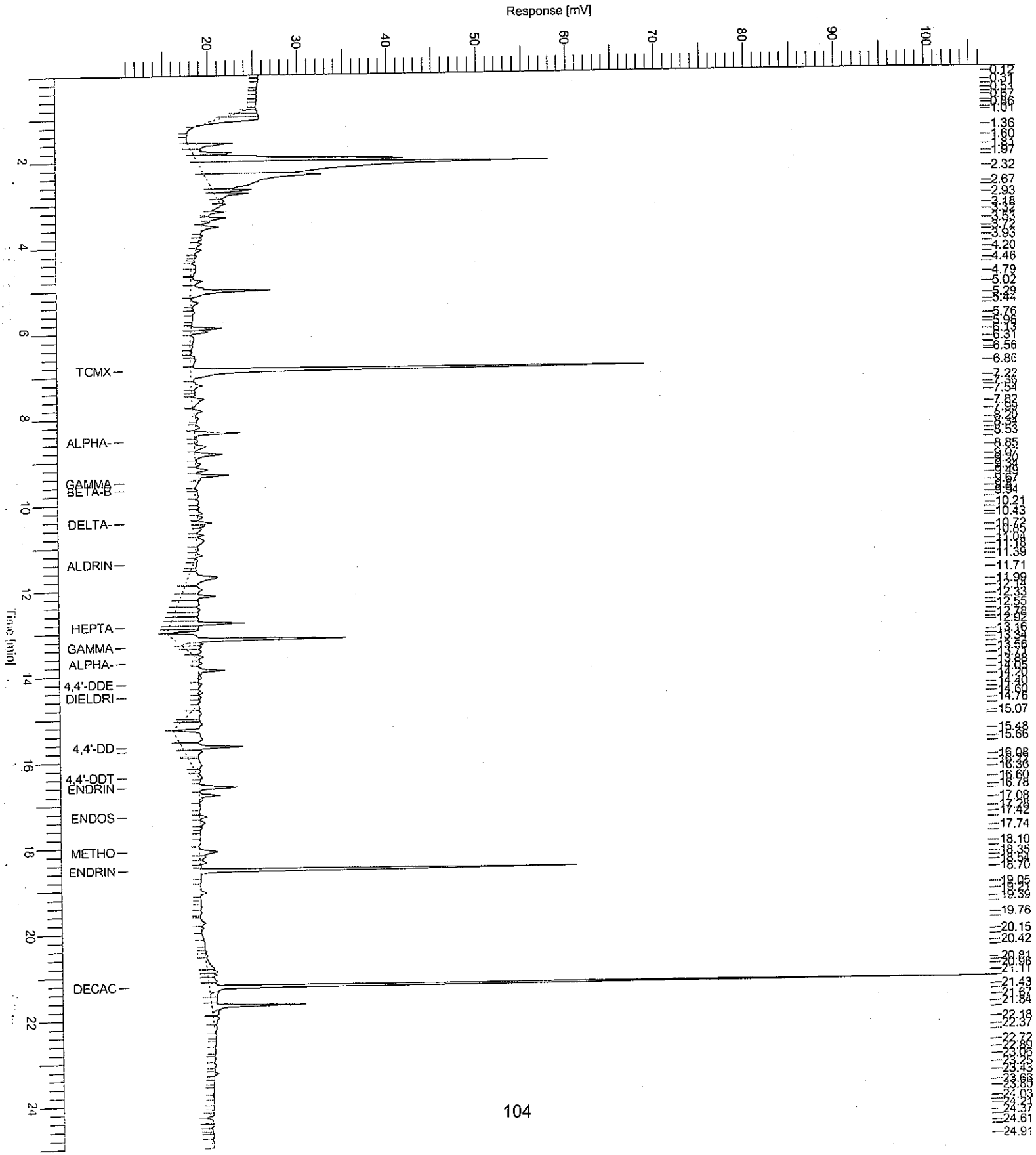


GC23 Rtx-CLPesticides2

Sample Name : qc273650,96829,mb
FileName : G:\gc23\CHb\334b011
Date : 11/30/04 8:03:41 AM
Method : gc23ins
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.48 mV High Point : 106.24 mV
Scale Factor: 1.0 Plot Offset: 10.48 mV Plot Scale: 95.8 mV

Sample #: 96829 Page 1 of 1

Time of Injection: 11/29/04 3:54:57 PM



BLANK USER REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC21	Samplenum:	QC274352	Cident	:
Seqnum	: 244485881008	Matrix	: Soil	Acctnum	: TREADWELL
Filename	: 337_008	Batchnum	: 96997	Injected	: 02-DEC-2004 13:01
IDF	: 1.0			Units	: ug/Kg

Prep: 14.79 g --> 10.0 ml = 0.6761 ml/g PDF

Analyte	Ch	Calibration	Result	Conf Result	RPD	RL	Flags
gamma-BHC	A	244483653001	ND			1.7	u
Heptachlor	A	244483653001	ND			1.7	u
Aldrin	A	244483653001	ND			1.7	u
Dieldrin	A	244483653001	ND			3.3	u
Endrin	A	244483653001	ND			3.3	u
4,4'-DDT	A	244483653001	ND			3.3	>c- u b*
alpha-BHC	A	244483653001	ND			1.7	u
beta-BHC	A	244483653001	ND			1.7	u
delta-BHC	A	244483653001	ND			1.7	>c- u b*
Heptachlor epoxide	A	244483653001	ND			1.7	u
gamma-Chlordane	A	244483653001	ND			1.7	u
alpha-Chlordane	A	244483653001	ND			1.7	u
Endosulfan I	A	244483653001	ND			1.7	u
4,4'-DDE	A	244483653001	ND			3.3	u
Endosulfan II	A	244483653001	ND			3.3	u
Endosulfan sulfate	A	244483653001	ND			3.3	u
4,4'-DDD	A	244483653001	ND			3.3	u
Endrin ketone	A	244483653001	ND			3.3	u
Chlordane (Technical)	A		ND			30	u
Methoxychlor	A	244483653001	ND			17	>c- u b*
Toxaphene	A		ND			61	u

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	244483653001	13.52	9.386	69	65-135	u
Decachlorobiphenyl	A	244483653001	13.52	9.643	71	65-135	>c+ u

+=high bias -=low bias >=closing b=noncompliant c=CCV u=use
Run Level Flags: **average CCV drift out (B)**
Page 1 of 1

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid	: GC21	Samplenum:	QC274352	Cident	:
Seqnum	: 244485881008	Matrix	: Soil	Acctnum	: QC
Filename	: 337_008	Batchnum	: 96997	Injected	: 02-DEC-2004 13:01
IDF	: 1.0			Units	: ug/Kg

Prep: 14.79 g --> 10.0 ml = 0.6761 ml/g PDF

Analyte	Ch	Calibration	Result	Conf	Result	RPD	RL	Flags
gamma-BHC	A	244483653001	ND				1.7	u
Heptachlor	A	244483653001	ND				1.7	u
Aldrin	A	244483653001	ND				1.7	u
Dieldrin	A	244483653001	ND				3.3	u
Endrin	A	244483653001	ND				3.3	u
4,4'-DDT	A	244483653001	ND				3.3	>c- u **b***
alpha-BHC	A	244483653001	ND				1.7	u
beta-BHC	A	244483653001	ND				1.7	u
delta-BHC	A	244483653001	ND				1.7	>c- u **b***
Heptachlor epoxide	A	244483653001	ND				1.7	u
gamma-Chlordane	A	244483653001	ND				1.7	u
alpha-Chlordane	A	244483653001	ND				1.7	u
Endosulfan I	A	244483653001	ND				1.7	u
4,4'-DDE	A	244483653001	ND				3.3	u
Endosulfan II	A	244483653001	ND				3.3	u
Endosulfan sulfate	A	244483653001	ND				3.3	u
4,4'-DDD	A	244483653001	ND				3.3	u
Endrin aldehyde	A	244483653001	ND				3.3	<c- **b***
Endrin ketone	A	244483653001	ND				3.3	u
Chlordane (Technical)	A		ND				30	u
Methoxychlor	A	244483653001	ND				17	>c- u **b***
Toxaphene	A		ND				61	u

Analyte	Ch	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
TCMX	A	244483653001	13.52	9.386	69	41-137	u
Decachlorobiphenyl	A	244483653001	13.52	9.643	71	42-160	>c+ u

FA 12/06/04

mcr 12/8/04

+=high bias -=low bias <=opening >=closing b=noncompliant c=CCV u=use
Run Level Flags: **average CCV drift out (B)**
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : qc274352,96997,mb
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 12/2/04 3:12:18 PM
Data Acquisition Time : 12/2/04 1:01:11 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\337a008p.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.555	106917.35	13.8822	0.676	1	9.39
alpha-BHC	10.179	2559.32	0.2055	0.676	1	0.14
gamma-BHC	11.085	0.00	0.0000	0.676	1	0.00
beta-BHC	11.347	2576.84	0.5238	0.676	1	0.35
delta-BHC	11.836	0.00	0.0000	0.676	1	0.00
Heptachlor	12.415	4676.18	0.4577	0.676	1	0.31
Aldrin	13.201	1155.15	0.1091	0.676	1	0.07
Heptachlor epoxide	14.834	524.48	0.0532	0.676	1	0.04
gamma-Chlordane	15.145	7384.41	0.7421	0.676	1	0.50
alpha-Chlordane	15.500	0.00	0.0000	0.676	1	0.00
4,4'-DDE	15.704	1020.00	0.1044	0.676	1	0.07
Endosulfan I	15.860	0.00	0.0000	0.676	1	0.00
Dieldrin	16.435	1747.66	0.1727	0.676	1	0.12
Endrin	17.061	0.00	0.0000	0.676	1	0.00
4,4'-DDD	17.222	869.63	0.1075	0.676	1	0.07
Endosulfan II	17.613	970.00	0.1166	0.676	1	0.08
4,4'-DDT	17.870	2066.00	0.3030	0.676	1	0.20
Endrin aldehyde	18.687	0.00	0.0000	0.676	1	0.00
Methoxychlor	19.115	1332.50	0.4483	0.676	1	0.30
Endosulfan sulfate	19.751	295.00	0.0414	0.676	1	0.03
Endrin ketone	20.389	799.00	0.0998	0.676	1	0.07
Decachlorobiphenyl	22.113	75442.27	14.2627	0.676	1	9.64
		210335.79	31.6299			21.39

FA 12/02/04

----------CURTIS & TOMPKINS LTD----------

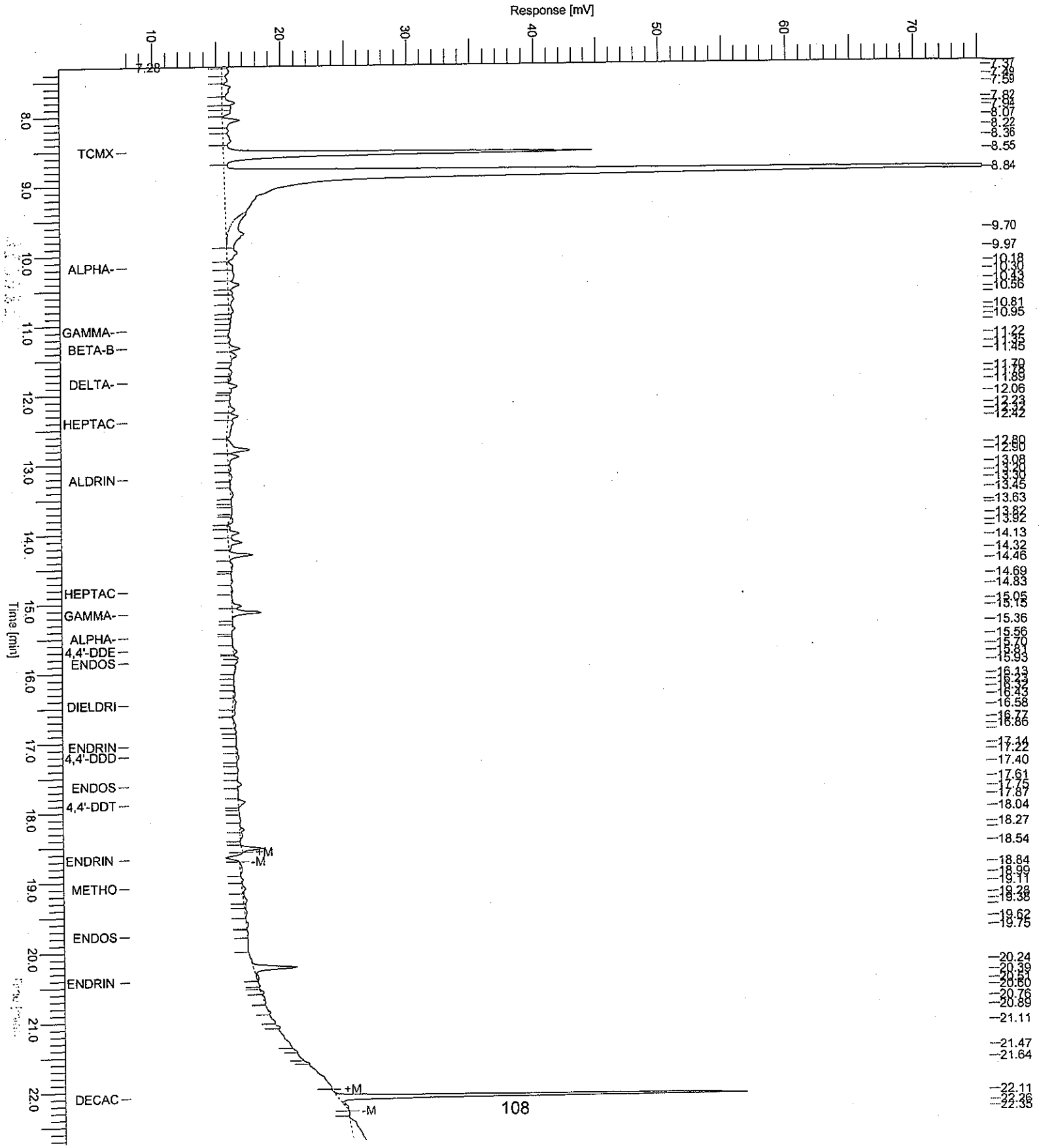
Report stored in ASCII file: G:\gc21\CHA\337a008p.TX0

GC21 Rtx-CLPesticides

Sample Name : qc274352,96997,mb
FileName : G:\gc21\CHa\337a008.raw
Date : 12/2/04 3:12:24 PM
Method :
Start Time : 7.30 min
Plot Offset: 7.99 mV

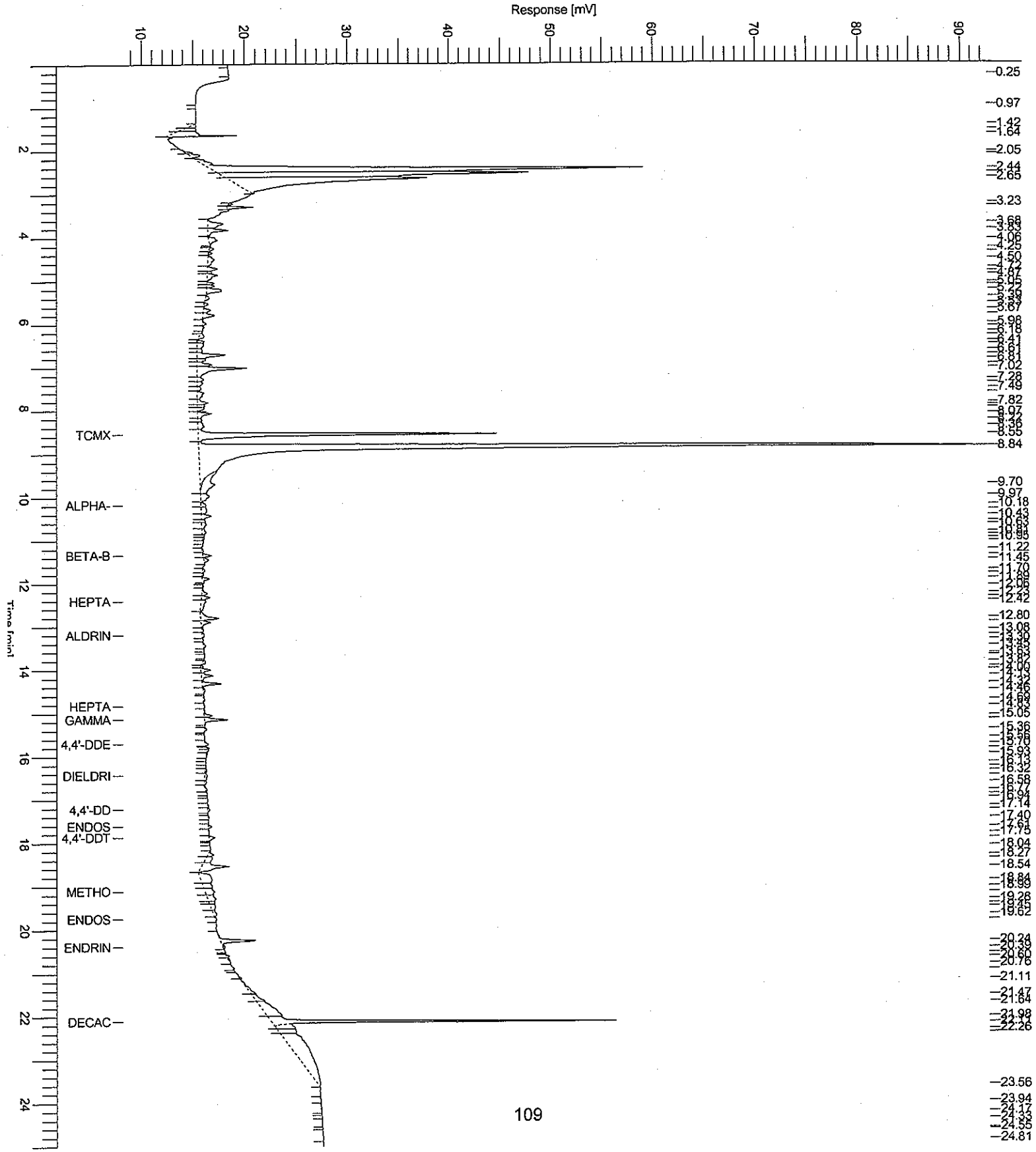
Sample #: 96997
Page 1 of 1

Time of Injection: 12/2/04 1:01:11 PM
End Time : 22.73 min
Low Point : 7.99 mV
High Point : 75.29 mV
Plot Scale: 67.3 mV



GC21 Rtx-CLPesticides

ample Name : qc274352,96997,mb Sample #: 96997 Page 1 of 1
iteName : G:\gc21\CHa\337a008.raw
ate : 12/2/04 3:07:56 PM
ethod : gc21ins Time of Injection: 12/2/04 1:01:11 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 8.20 mV High Point : 92.61 mV
cale Factor: 1.0 Plot Offset: 8.20 mV Plot Scale: 84.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274352,96997,mb
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 12/2/04 3:16:48 PM
Data Acquisition Time : 12/2/04 1:01:11 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\337b008p.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.843	95527.31	11.2319	0.676	1	7.59
alpha-BHC	9.465	1869.50	0.1428	0.676	1	0.10
gamma-BHC	10.480	0.00	0.0000	0.676	1	0.00
beta-BHC	10.721	1019.60	0.2108	0.676	1	0.14
delta-BHC	11.534	2101.55	0.1738	0.676	1	0.12
Heptachlor	11.650	0.00	0.0000	0.676	1	0.00
Aldrin	12.514	131.00	0.0123	0.676	1	0.01
Heptachlor epoxide	13.999	1224.67	0.1244	0.676	1	0.08
gamma-Chlordane	14.467	713.16	0.0707	0.676	1	0.05
alpha-Chlordane	14.837	412.47	0.0430	0.676	1	0.03
Endosulfan I	14.995	967.03	0.1074	0.676	1	0.07
4,4'-DDE	15.317	610.13	0.0610	0.676	1	0.04
Dieldrin	15.619	982.41	0.0990	0.676	1	0.07
Endrin	16.434	107.20	0.0151	0.676	1	0.01
4,4'-DDD	16.733	85.39	0.0103	0.676	1	0.01
Endosulfan II	16.915	0.00	0.0000	0.676	1	0.00
4,4'-DDT	17.498	696.81	0.1027	0.676	1	0.07
Endrin aldehyde	17.797	1284.61	0.1883	0.676	1	0.13
Endosulfan sulfate	18.470	718.98	0.0956	0.676	1	0.06
Methoxychlor	19.154	3981.70	1.4059	0.676	1	0.95
Endrin ketone	19.737	386.31	0.0415	0.676	1	0.03
Decachlorobiphenyl	21.996	65170.37	12.9971	0.676	1	8.79
		177990.21	27.1337			18.35

----------CURTIS & TOMPKINS LTD----------

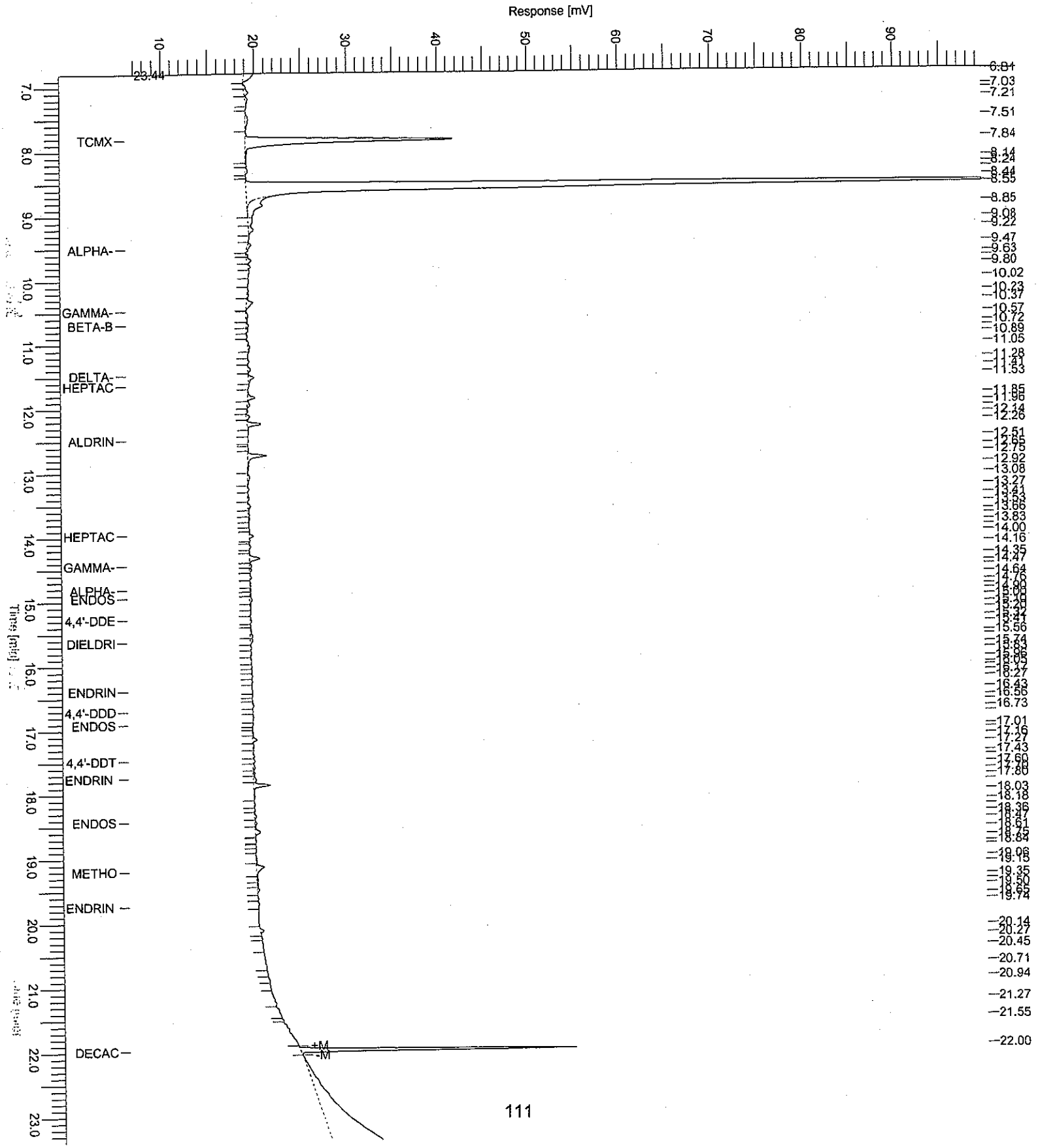
Report stored in ASCII file: G:\gc21\CHB\337b008p.TX0

GC21 Rtx-CLPesticides2

Sample Name : qc274352,96997,mb
FileName : G:\gc21\CHb\337b008.raw
Date : 12/2/04 3:16:53 PM
Method :
Start Time : 6.80 min
Plot Offset: 6.05 mV

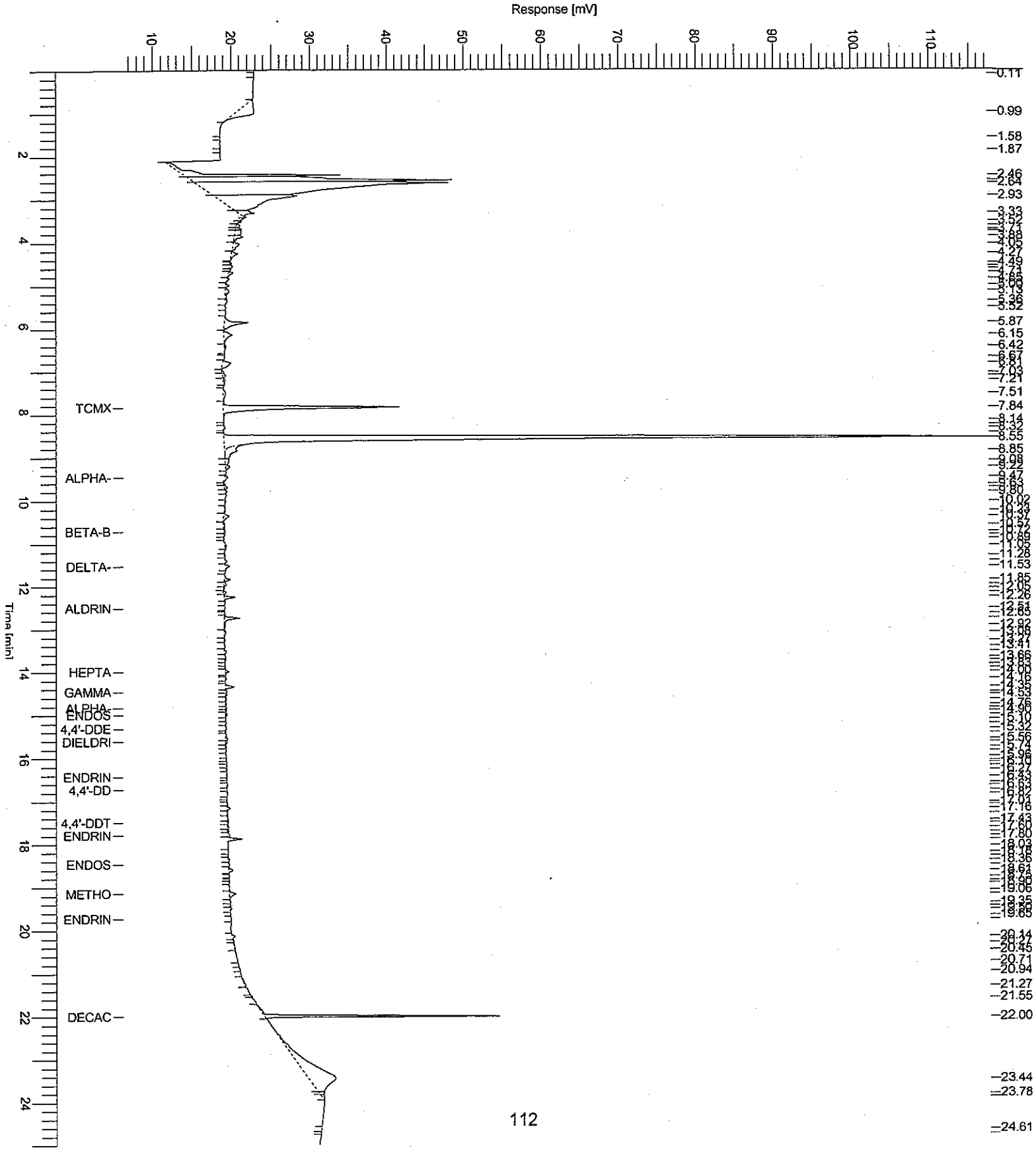
Sample #: 96997
Page 1 of 1

Time of Injection: 12/2/04 1:01:11 PM
End Time : 23.40 min
Low Point : 6.05 mV
High Point : 99.61 mV
Plot Scale: 93.6 mV



GC21 Rtx-CLPesticides2

ample Name : qc274352,96997,mb Sample #: 96997 Page 1 of 1
ileName : G:\gc21\CHb\337b008
late : 12/2/04 3:07:30 PM
lethod : gc21ins Time of Injection: 12/2/04 1:01:11 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 6.33 mV High Point : 117.41 mV
cale Factor: 1.0 Plot Offset: 6.33 mV Plot Scale: 111.1 mV



SPIKE USER REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23
Seqnum : 804481659012
Filename : 334_012
IDF : 1.0
Run type : LCS
Samplenum: QC273651
Matrix : Soil
Batchnum : 96829
Inj : 29-NOV-2004 16:23
Units : ug/Kg

LCS: 14.93 g --> 10.0 ml = 0.6698 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
gamma-BHC	16.74	11.57	A	69	65-135	u
Heptachlor	16.74	11.69	A	70	65-135	u
Aldrin	16.74	11.69	A	70	65-135	u
Dieldrin	16.74	11.62	A	69	65-135	u
Endrin	16.74	12.41	A	74	65-135	u
4,4'-DDT	16.74	12.76	A	76	65-135	<c+ u b*
TCMX	13.40	8.777	A	66	65-135	u
Decachlorobiphenyl	13.40	9.322	A	70	65-135	u

+=high bias <=opening b=noncompliant c=CCV u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23
Seqnum : 804481659012
Filename : 334_012
IDF : 1.0
Run type : LCS
Samplenum: QC273651
Matrix : Soil
Batchnum : 96829
Inj : 29-NOV-2004 16:23
Units : ug/Kg

LCS: 14.93 g --> 10.0 ml = 0.6698 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
gamma-BHC	16.74	11.57	A	69	44-123	
Heptachlor	16.74	11.69	A	70	52-137	
Aldrin	16.74	11.69	A	70	49-120	
Dieldrin	16.74	11.62	A	69	40-124	
Endrin	16.74	12.41	A	74	41-146	
4,4'-DDT	16.74	12.76	A	76	36-152	<c+ b*
alpha-BHC	16.74	11.21	A	67	43-127	
beta-BHC	16.74	12.04	B	72	46-126	
delta-BHC	16.74	12.13	A	72	30-127	
Heptachlor epoxide	16.74	11.54	A	69	44-124	
gamma-Chlordane	16.74	11.50	A	69	50-120	
alpha-Chlordane	16.74	11.43	A	68	49-120	
Endosulfan I	16.74	12.11	A	72	46-122	
4,4'-DDE	16.74	10.84	A	65	50-120	
Endosulfan II	16.74	11.96	A	71	21-135	
Endosulfan sulfate	16.74	11.61	A	69	11-137	
4,4'-DDD	16.74	10.67	A	64	49-130	>c+ b*
Endrin aldehyde	16.74	8.628	A	52	4-120	
Endrin ketone	16.74	11.86	B	71	15-141	
Methoxychlor	16.74	15.18	B	91	30-176	
TCMX	13.40	8.777	A	66	41-137	
Decachlorobiphenyl	13.40	9.322	A	70	42-160	

PA 11/30/04

12/1/04

+=high bias <=opening >=closing b=noncompliant c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : qc273651,96829,lcs
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 11/30/04 8:26:01 AM
Data Acquisition Time : 11/29/04 4:23:58 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a012p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.518	140640.59	13.1038	0.670	1	8.777
alpha-BHC	8.066	288738.62	16.7404	0.670	1	11.213
gamma-BHC	8.930	268236.70	17.2747	0.670	1	11.570
beta-BHC	9.199	137153.04	21.2116	0.670	1	14.207
delta-BHC	9.656	283562.16	18.1037	0.670	1	12.126
Heptachlor	10.195	238564.00	17.4564	0.670	1	11.692
Aldrin	10.968	248241.39	17.4503	0.670	1	11.688
Heptachlor epoxide	12.552	225432.27	17.2332	0.670	1	11.543
gamma-Chlordane	12.868	226689.00	17.1684	0.670	1	11.499
alpha-Chlordane	13.202	218692.00	17.0585	0.670	1	11.426
4,4'-DDE	13.456	209206.19	16.1796	0.670	1	10.837
Endosulfan I	13.530	210611.36	18.0791	0.670	1	12.109
Dieldrin	14.133	226168.10	17.3469	0.670	1	11.619
Endrin	14.697	200135.49	18.5250	0.670	1	12.408
4,4'-DDD	14.944	167358.93	15.9338	0.670	1	10.672
Endosulfan II	15.261	200309.21	17.8575	0.670	1	11.961
4,4'-DDT	15.622	181118.49	19.0472	0.670	1	12.758
Endrin aldehyde	16.303	113282.00	12.8818	0.670	1	8.628
Methoxychlor	16.864	90291.79	22.7012	0.670	1	15.205
Endosulfan sulfate	17.372	170217.77	17.3266	0.670	1	11.605
Endrin ketone	18.031	203821.50	17.5764	0.670	1	11.773
Decachlorobiphenyl	20.447	109451.70	13.9183	0.670	1	9.322
		4357922.32	380.1746			254.638

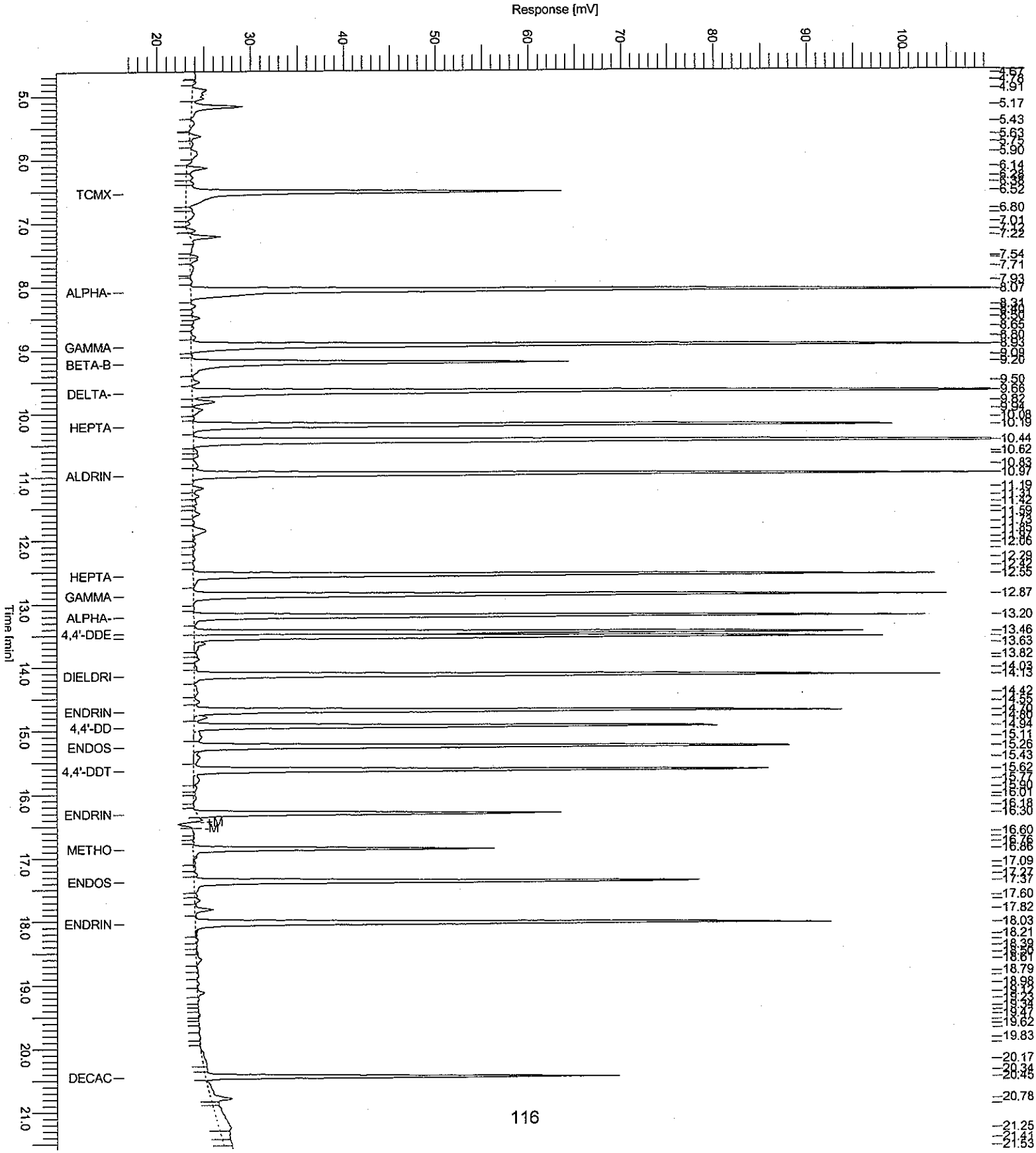
FA 11/30/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\334a012p.TX0

GC23 Rtx-CLPesticides

Sample Name : qc273651,96829,lcs Sample #: 96829
FileName : G:\gc23\CHa\334a012.raw
Date : 11/30/04 8:26:06 AM
Method : Time of Injection: 11/29/04 4:23:58 PM
Start Time : 4.62 min End Time : 21.58 min Low Point : 16.45 mV High Point : 109.57 mV
Plot Offset: 16.45 mV Plot Scale: 93.1 mV



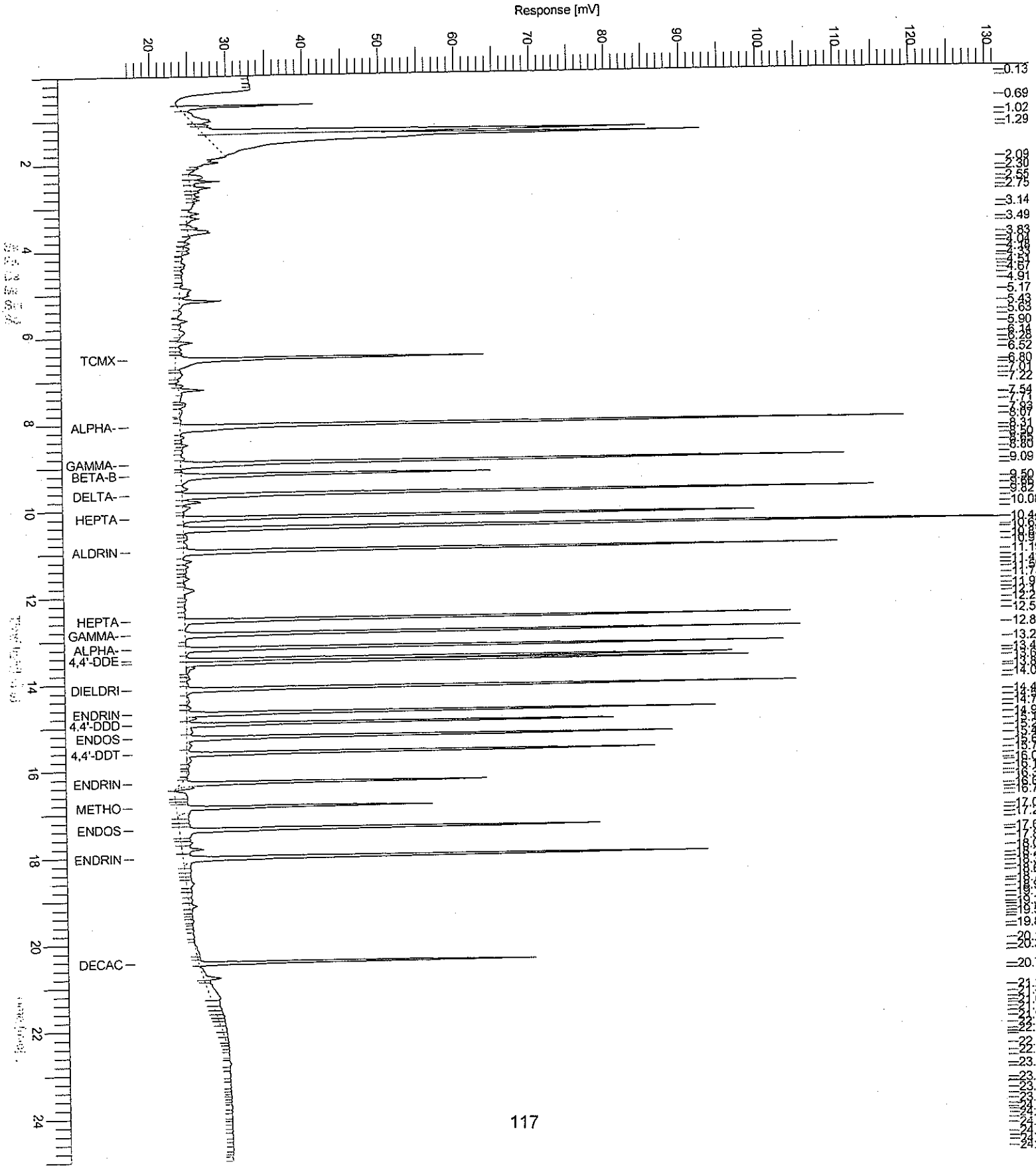
GC23 Rtx-CLPesticides

Sample Name : qc273651,96829,lcs
FileName : G:\gc23\CHa\334a012.raw
Date : 11/30/04 8:05:12 AM
Method : gc23ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96829

Page 1 of 1

Time of Injection: 11/29/04 4:23:58 PM
End Time : 25.00 min
Plot Offset: 16.74 mV
Low Point : 16.74 mV
Plot Scale: 114.6 mV
High Point : 131.29 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273651,96829,lcs
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 11/30/04 8:03:45 AM
Data Acquisition Time : 11/29/04 4:23:58 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b012.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.864	186148.03	12.6144	0.670	1	8.449
alpha-BHC	8.497	409832.27	17.1776	0.670	1	11.505
gamma-BHC	9.436	389246.19	17.9582	0.670	1	12.028
beta-BHC	9.669	163853.65	17.9703	0.670	1	12.036
delta-BHC	10.432	412042.50	19.1118	0.670	1	12.801
Heptachlor	10.570	288532.37	17.4926	0.670	1	11.716
Aldrin	11.385	375007.16	18.7695	0.670	1	12.572
Heptachlor epoxide	12.854	340620.50	18.2621	0.670	1	12.232
gamma-Chlordane	13.329	345828.14	18.6608	0.670	1	12.499
alpha-Chlordane	13.699	340611.10	19.0688	0.670	1	12.772
Endosulfan I	13.815	321180.38	19.2104	0.670	1	12.867
4,4'-DDE	14.184	332882.96	18.9172	0.670	1	12.671
Dieldrin	14.498	324212.65	18.2658	0.670	1	12.234
Endrin	15.236	269755.37	18.5974	0.670	1	12.456
4,4'-DDD	15.601	230896.00	16.6068	0.670	1	11.123
Endosulfan II	15.763	295678.50	19.5896	0.670	1	13.121
4,4'-DDT	16.365	251100.56	19.3774	0.670	1	12.979
Endrin aldehyde	16.602	173037.84	15.0884	0.670	1	10.106
Endosulfan sulfate	17.278	245672.50	18.8706	0.670	1	12.639
Methoxychlor	18.089	117619.95	22.6666	0.670	1	15.182
Endrin ketone	18.553	290926.00	17.7071	0.670	1	11.860
Decachlorobiphenyl	21.236	191327.82	18.3610	0.670	1	12.298
		6296012.45	400.3444			268.147

----------CURTIS & TOMPKINS LTD----------

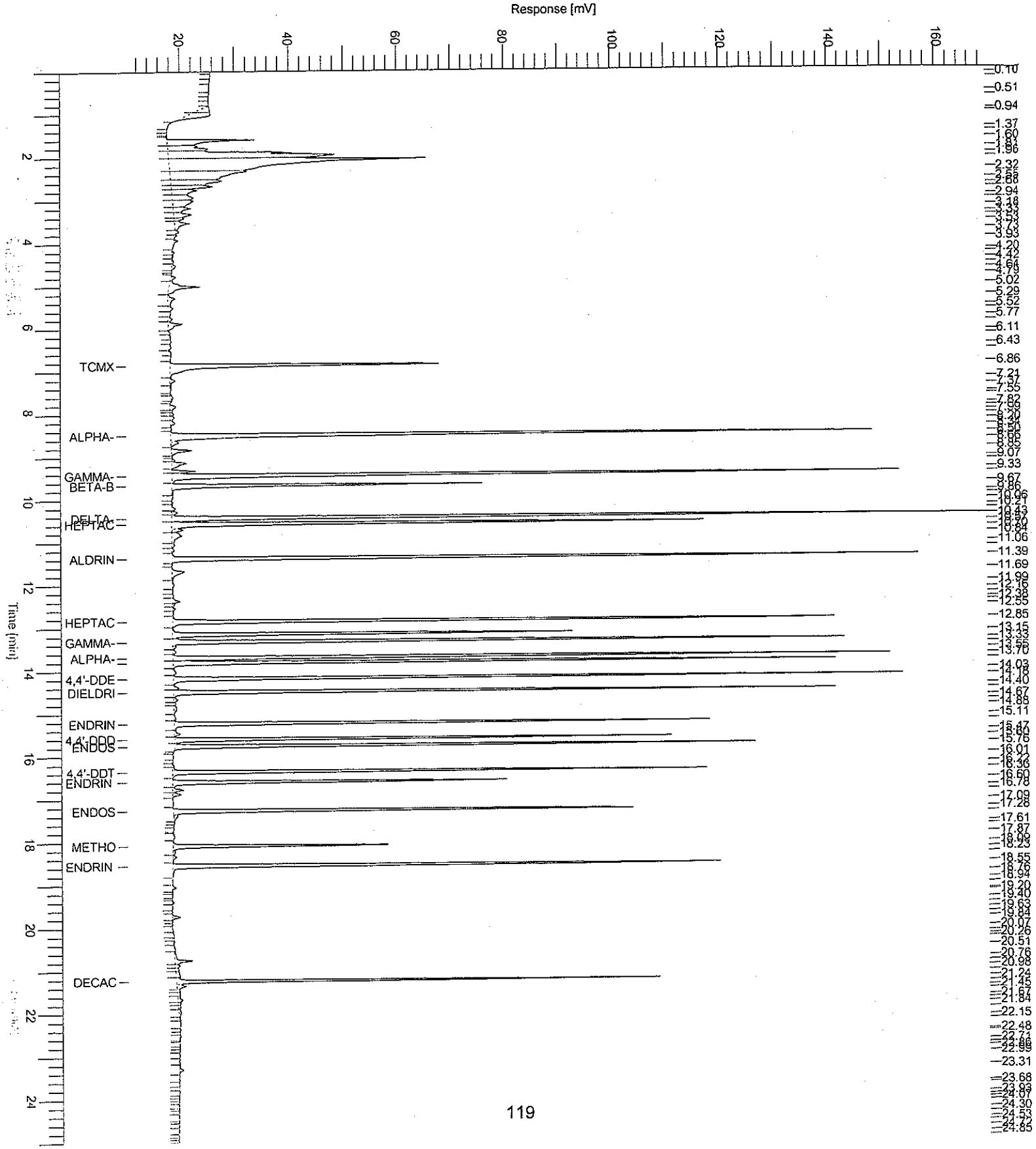
Report stored in ASCII file: G:\gc23\CHB\334b012.TX0

GC23 Rtx-CLPesticides2

Sample Name : qc273651,96829,lcs
FileName : G:\gc23\CHb\334b012
Date : 11/30/04 8:03:49 AM
Method : gc23ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96829

Time of Injection: 11/29/04 4:23:58 PM
End Time : 25.00 min
Low Point : 10.01 mV
High Point : 169.37 mV
Plot Offset: 10.01 mV
Plot Scale: 159.4 mV



SPIKE USER REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC21
Seqnum : 244485881016
Filename : 337_016
IDF : 1.0
Run type : LCS
Samplenum: QC274353
Matrix : Soil
Batchnum : 96997
Inj : 02-DEC-2004 17:07
Units : ug/Kg

LCS: 14.78 g --> 10.0 ml = 0.6766 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
gamma-BHC	16.91	11.49	A	68	65-135	u
Heptachlor	16.91	12.07	A	71	65-135	u
Aldrin	16.91	11.69	A	69	65-135	u
Dieldrin	16.91	11.36	A	67	65-135	u
Endrin	16.91	12.19	A	72	65-135	u
4,4'-DDT	16.91	11.34	A	67	65-135	>c- u b*
TCMX	13.53	10.05	A	74	65-135	u
Decachlorobiphenyl	13.53	8.768	A	65	65-135	>c+ u

+=high bias -=low bias >=closing b=noncompliant c=CCV u=use
Run Level Flags: **average CCV drift out (B)**
Page 1 of 1

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC21
Seqnum : 244485881016
Filename : 337_016
IDF : 1.0
Run type : LCS (None Florisil LCS)
Samplenum: QC274353
Matrix : Soil
Batchnum : 96997
Inj : 02-DEC-2004 17:07
Units : ug/Kg

LCS: 14.78 g --> 10.0 ml = 0.6766 ml/g PDF

Analyte	Spike Conc	LCS	Ch	%Rec	Lim%Rec	Flags
gamma-BHC	16.91	11.49	A	68	44-123	
Heptachlor	16.91	12.07	A	71	52-137	
Aldrin	16.91	11.69	A	69	49-120	
Dieldrin	16.91	11.36	A	67	40-124	
Endrin	16.91	12.19	A	72	41-146	
4,4'-DDT	16.91	11.34	A	67	36-152	>c- b*
alpha-BHC	16.91	11.35	A	67	43-127	
beta-BHC	16.91	11.42	A	67	46-126	
delta-BHC	16.91	11.83	A	70	30-127	>c- b*
Heptachlor epoxide	16.91	11.31	A	67	44-124	
gamma-Chlordane	16.91	11.46	A	68	50-120	
alpha-Chlordane	16.91	11.46	A	68	49-120	
Endosulfan I	16.91	11.60	A	69	46-122	
4,4'-DDE	16.91	11.19	A	66	50-120	
Endosulfan II	16.91	11.42	A	68	21-135	
Endosulfan sulfate	16.91	11.47	A	68	11-137	
4,4'-DDD	16.91	11.43	A	68	49-130	
Endrin aldehyde	16.91	8.164	A	48	4-120	<c- b*
Endrin ketone	16.91	11.51	A	68	15-141	
Methoxychlor	16.91	12.76	A	75	30-176	>c- b*
TCMX	13.53	10.05	A	74	41-137	
Decachlorobiphenyl	13.53	8.768	A	65	42-160	>c+

FA 12/03/04

None Florisil LCS used for sample 176248-3

+=high bias -=low bias <=opening >=closing b=noncompliant c=CCV
Run Level Flags: **average CCV drift out (B)**
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : qc274353,96997,lcs
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 12/3/04 8:33:08 AM
Data Acquisition Time : 12/2/04 5:07:16 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\337a016p.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.567	114415.44	14.8558	0.677	1	10.05
alpha-BHC	10.218	208886.16	16.7703	0.677	1	11.35
gamma-BHC	11.122	191249.74	16.9824	0.677	1	11.49
beta-BHC	11.380	83008.83	16.8726	0.677	1	11.42
delta-BHC	11.872	207031.30	17.4906	0.677	1	11.83
Heptachlor	12.445	182224.50	17.8362	0.677	1	12.07
Aldrin	13.256	183058.76	17.2843	0.677	1	11.69
Heptachlor epoxide	14.871	164946.00	16.7222	0.677	1	11.31
gamma-Chlordane	15.188	168494.00	16.9333	0.677	1	11.46
alpha-Chlordane	15.532	162678.50	16.9387	0.677	1	11.46
4,4'-DDE	15.718	161609.00	16.5412	0.677	1	11.19
Endosulfan I	15.889	154661.50	17.1421	0.677	1	11.60
Dieldrin	16.501	169951.84	16.7957	0.677	1	11.36
Endrin	17.089	139701.76	18.0197	0.677	1	12.19
4,4'-DDD	17.236	136712.38	16.8926	0.677	1	11.43
Endosulfan II	17.661	140449.00	16.8823	0.677	1	11.42
4,4'-DDT	17.932	114258.50	16.7592	0.677	1	11.34
Endrin aldehyde	18.716	81304.41	12.0657	0.677	1	8.16
Methoxychlor	19.120	56055.52	18.8603	0.677	1	12.76
Endosulfan sulfate	19.807	120974.00	16.9591	0.677	1	11.47
Endrin ketone	20.450	136265.89	17.0121	0.677	1	11.51
Decachlorobiphenyl	22.115	68549.10	12.9595	0.677	1	8.77
		3146486.13	365.5761			247.35

FA 12/03/04

----------CURTIS & TOMPKINS LTD----------

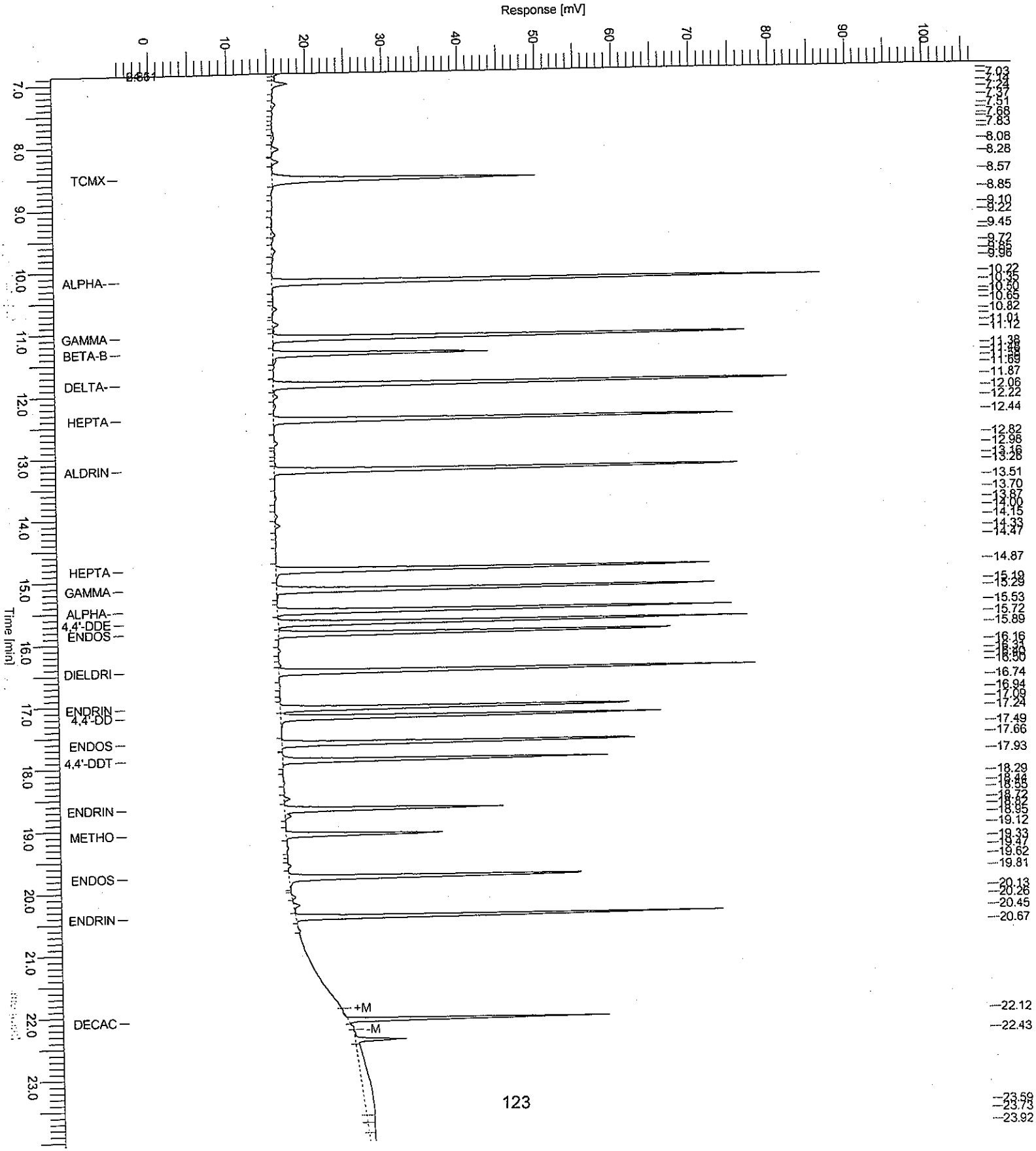
Report stored in ASCII file: G:\gc21\CHA\337a016p.TX0

GC21 Rtx-CLPesticides

ample Name : qc274353,96997,lcs
leName : G:\gc21\CHa\337a016.raw
ate : 12/3/04 8:33:14 AM
lethod :
tart Time : 6.87 min
lot Offset: -4.00 mV

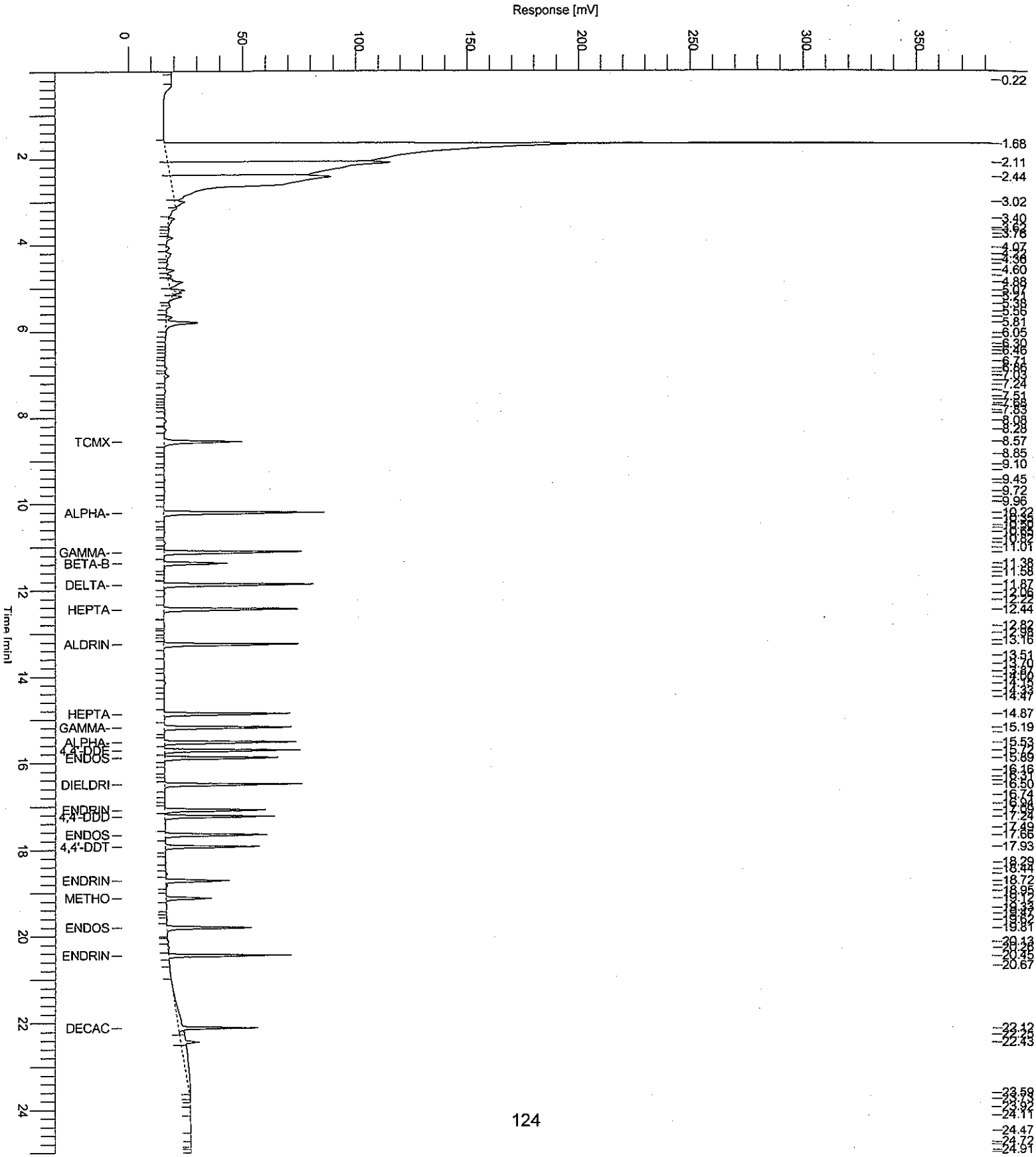
Sample #: 96997

Time of Injection: 12/2/04 5:07:16 PM
End Time : 24.07 min
Low Point : -4.00 mV
High Point : 106.85 mV
Plot Scale: 110.9 mV



GC21 Rtx-CLPesticides

ample Name : qc274353,96997,lcs Sample #: 96997 Page 1 of 1
ileName : G:\gc21\CHa\337a016.raw
ate : 12/3/04 8:29:15 AM
ethod : gc21ins Time of Injection: 12/2/04 5:07:16 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.03 mV High Point : 382.77 mV
cale Factor: 1.0 Plot Offset: -3.03 mV Plot Scale: 385.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc274353,96997,lcs
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 12/3/04 8:34:15 AM
Data Acquisition Time : 12/2/04 5:07:16 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\337b016p.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.853	106573.00	12.5307	0.677	1	8.48
alpha-BHC	9.538	192591.47	14.7134	0.677	1	9.95
gamma-BHC	10.504	172773.26	14.9365	0.677	1	10.11
beta-BHC	10.730	75013.30	15.5078	0.677	1	10.49
delta-BHC	11.512	185368.14	15.3260	0.677	1	10.37
Heptachlor	11.673	152375.51	15.7985	0.677	1	10.69
Aldrin	12.515	166161.00	15.6103	0.677	1	10.56
Heptachlor epoxide	13.996	151094.00	15.3500	0.677	1	10.39
gamma-Chlordane	14.468	152109.94	15.0748	0.677	1	10.20
alpha-Chlordane	14.845	147987.00	15.4233	0.677	1	10.44
Endosulfan I	14.970	140813.50	15.6452	0.677	1	10.59
4,4'-DDE	15.300	151208.28	15.1180	0.677	1	10.23
Dieldrin	15.662	153474.10	15.4669	0.677	1	10.46
Endrin	16.413	117430.90	16.5760	0.677	1	11.22
4,4'-DDD	16.731	127094.74	15.2861	0.677	1	10.34
Endosulfan II	16.934	133009.50	15.5037	0.677	1	10.49
4,4'-DDT	17.501	106856.12	15.7485	0.677	1	10.66
Endrin aldehyde	17.772	80771.27	11.8425	0.677	1	8.01
Endosulfan sulfate	18.452	116182.98	15.4529	0.677	1	10.46
Methoxychlor	19.217	52272.50	18.4571	0.677	1	12.49
Endrin ketone	19.761	138081.11	14.8261	0.677	1	10.03
Decachlorobiphenyl	21.998	61064.68	12.1783	0.677	1	8.24
		2880306.30	332.3725			224.88

----------CURTIS & TOMPKINS LTD----------

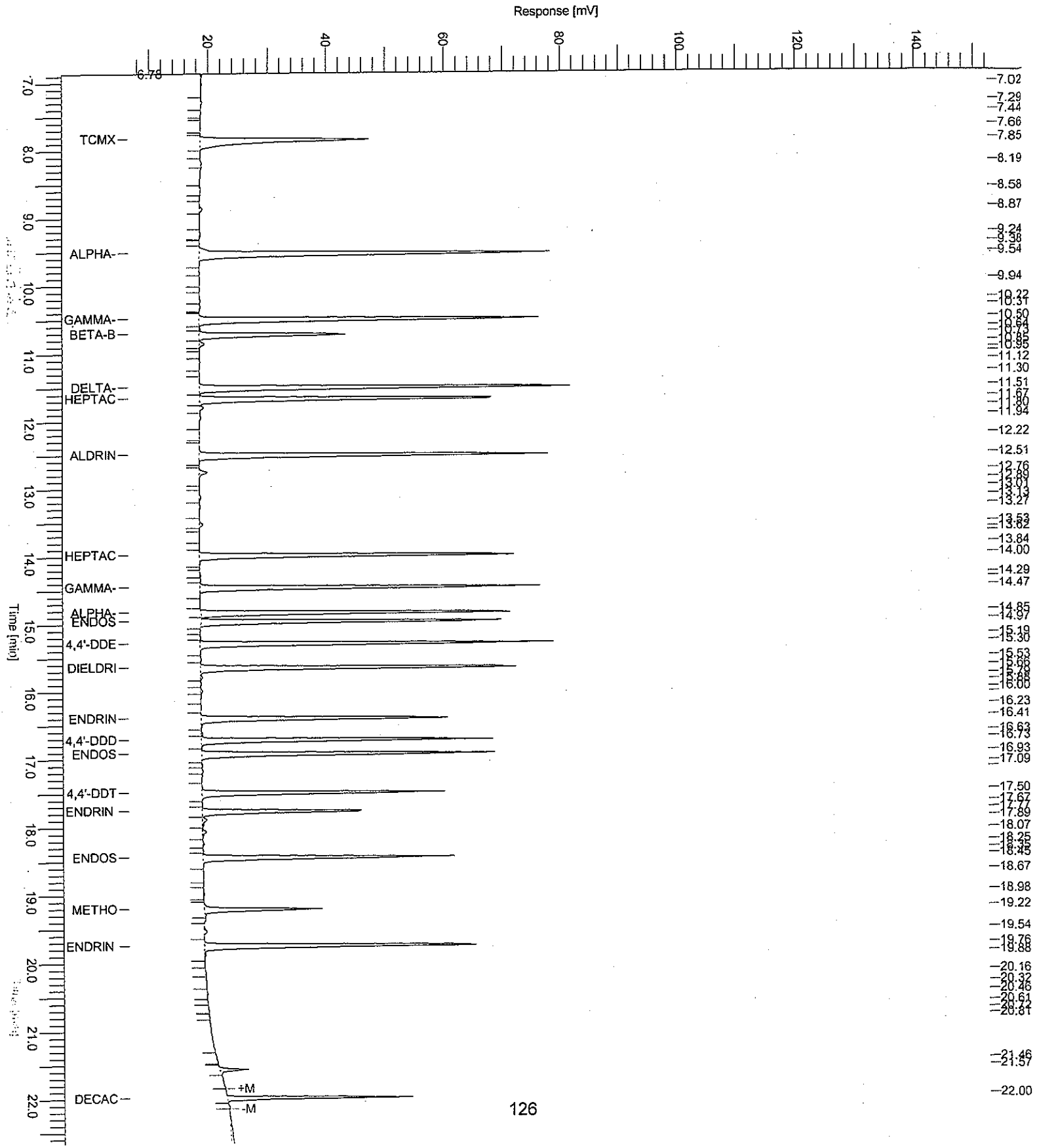
Report stored in ASCII file: G:\gc21\CHB\337b016p.TX0

GC21 Rtx-CLPesticides2

Sample Name : qc274353,96997,lcs
FileName : G:\gc21\CHb\337b016.raw
Date : 12/3/04 8:34:21 AM
Method :
Start Time : 6.87 min
Plot Offset: 6.41 mV

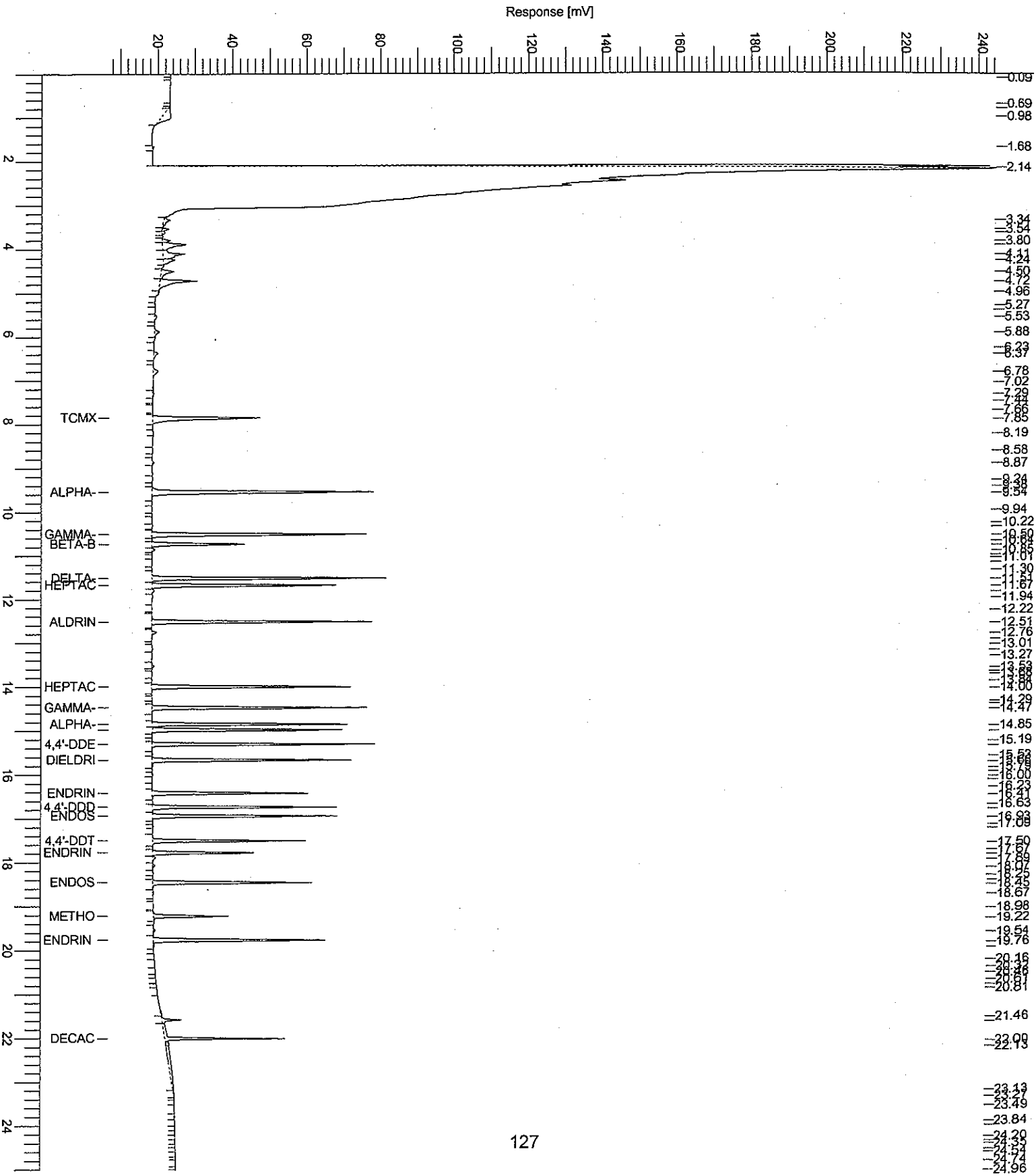
Sample #: 96997
Page 1 of 1

Time of Injection: 12/2/04 5:07:16 PM
End Time : 22.67 min
Low Point : 6.41 mV
High Point : 152.50 mV
Plot Scale: 146.1 mV



GC21 Rtx-CLPesticides2

ample Name : qc274353,96997,lcs Sample #: 96997 Page 1 of 1
ileName : G:\gc21\CHb\337b016
ate : 12/3/04 8:29:23 AM
lethod : gc21ins Time of Injection: 12/2/04 5:07:16 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 7.00 mV High Point : 244.60 mV
cale Factor: 1.0 Plot Offset: 7.00 mV Plot Scale: 237.6 mV



SPIKE USER REPORT FOR 176248 8081 Soil
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804481659013	Seqnum : 804481659019	Seqnum : 804481659020
Filename : 334_013	Filename : 334_019	Filename : 334_020
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-001	Samplenum: QC273771	Samplenum: QC273772
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96829	Batchnum : 96829	Batchnum : 96829
Inj : 29-NOV-2004 18:48	Inj : 29-NOV-2004 21:38	Inj : 29-NOV-2004 22:06
Units : ug/Kg		

MSS: 15.05 g --> 10.0 ml = 0.6645 ml/g PDF
MS: 14.80 g --> 10.0 ml = 0.6757 ml/g PDF
MSD: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	A	16.72	16.21	A	96	15.57	A	93	65-135	3	35	u
Heptachlor	ND	A	16.72	16.00	A	95	14.66	A	88	65-135	8	35	u
Aldrin	ND	A	16.72	15.93	A	94	15.30	A	91	65-135	3	35	u
Dieldrin	ND	A	16.72	15.91	A	94	15.56	A	93	65-135	1	35	u
Endrin	ND	A	16.72	16.39	A	97	16.87	A	101	65-135	4	35	u
4,4'-DDT	2.099	A	16.72	16.99	A	88	16.88	A	88	65-135	0	35	<c+ u b*
TCMX			13.38	13.71	A	101	11.82	A	88	65-135	--		u
Decachlorobiphenyl			13.38	12.85	A	95	13.19	A	99	65-135	--		u

+=high bias <=opening b=noncompliant c=CCV u=use

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804481659013	Seqnum : 804481659019	Seqnum : 804481659020
Filename : 334_013	Filename : 334_019	Filename : 334_020
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-001	Samplenum: QC273771	Samplenum: QC273772
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96829	Batchnum : 96829	Batchnum : 96829
Inj : 29-NOV-2004 18:48	Inj : 29-NOV-2004 21:38	Inj : 29-NOV-2004 22:06
Units : ug/Kg		

MSS: 15.05 g --> 10.0 ml = 0.6645 ml/g PDF
MS: 14.80 g --> 10.0 ml = 0.6757 ml/g PDF
MSD: 14.95 g --> 10.0 ml = 0.6689 ml/g PDF

Analyte	MSS	Ch	Spike Conc	MS	Ch	%Rec	MSD	Ch	%Rec	Lim%Rec	RPD	Lim	Flags
gamma-BHC	ND	A	16.72	16.21	A	96	15.57	A	93	36-120	3	56	
Heptachlor	ND	A	16.72	16.00	A	95	14.66	A	88	45-141	8	55	
Aldrin	ND	A	16.72	15.93	A	94	15.30	A	91	35-130	3	47	
Dieldrin	ND	A	16.72	15.91	A	94	15.56	A	93	40-137	1	42	
Endrin	ND	A	16.72	16.39	A	97	16.87	A	101	46-148	4	48	
4,4'-DDT	2.099	A	16.72	16.99	A	88	16.88	A	88	15-167	0	55	<c+ b*
alpha-BHC	ND	A	16.72	16.49	A	98	15.70	A	94	35-123	4	53	
beta-BHC	ND	A	16.72	16.93	B	100	17.34	B	104	40-138	17	56	
delta-BHC	0.6591	A	16.72	15.83	A	90	15.42	A	88	19-135	2	53	
Heptachlor epoxide	ND	A	16.72	15.90	A	94	15.12	A	90	43-143	4	48	
gamma-Chlordane	ND	A	16.72	15.36	A	91	14.89	A	89	38-135	2	47	
alpha-Chlordane	ND	A	16.72	15.40	A	91	14.52	A	87	39-134	5	49	
Endosulfan I	ND	A	16.72	15.88	A	94	15.84	A	95	34-138	1	54	
4,4'-DDE	ND	A	16.72	14.90	A	88	13.88	A	83	40-128	6	45	
Endosulfan II	ND	A	16.72	15.45	A	91	15.60	A	93	30-131	2	54	
Endosulfan sulfate	ND	A	16.72	15.91	A	94	14.96	A	89	14-147	5	56	
4,4'-DDD	ND	A	16.72	15.50	A	92	15.15	A	91	37-140	1	50	>c+ b*
Endrin aldehyde	ND	A	16.72	11.65	A	69	12.11	A	72	1-122	5	62	
Endrin ketone	ND	A	16.72	16.04	B	95	18.87	B	113	6-152	16	62	
Methoxychlor	ND	A	16.72	19.87	B	118	22.21	B	133	19-189	6	63	

+=high bias <=opening >=closing b=noncompliant c=CCV

MCW 12/1/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8081A

Instid : GC23	Instid : GC23	Instid : GC23
Seqnum : 804481659013	Seqnum : 804481659019	Seqnum : 804481659020
Filename : 334_013	Filename : 334_019	Filename : 334_020
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-001	Samplenum: QC273771	Samplenum: QC273772
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96829	Batchnum : 96829	Batchnum : 96829
Inj : 29-NOV-2004 18:48	Inj : 29-NOV-2004 21:38	Inj : 29-NOV-2004 22:06
Units : ug/Kg		

Analyte	MSS	Ch Spike Conc	MS Ch	%Rec	MSD Ch	%Rec	Lim%Rec	RPD Lim	Flags
TCMX		13.38	13.71 A	101	11.82 A	88	41-137	--	
Decachlorobiphenyl		13.38	12.85 A	95	13.19 A	99	42-160	--	

130

+=high bias <=opening >=closing b=noncompliant c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : qc27377~~2~~,96829,ms
Instrument Name : GC23 1
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 11/30/04 8:33:21 AM
Data Acquisition Time : 11/29/04 9:38:02 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a019p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.502	217761.67	20.2894	0.676	1	13.709
alpha-BHC	8.051	420893.51	24.4025	0.676	1	16.488
gamma-BHC	8.916	372418.15	23.9841	0.676	1	16.205
beta-BHC	9.186	199554.20	30.8624	0.676	1	20.853
delta-BHC	9.647	367011.92	23.4315	0.676	1	15.832
Heptachlor	10.182	323574.72	23.6769	0.676	1	15.998
Aldrin	10.955	335468.35	23.5820	0.676	1	15.934
Heptachlor epoxide	12.545	307765.21	23.5271	0.676	1	15.897
gamma-Chlordane	12.856	300219.64	22.7373	0.676	1	15.363
alpha-Chlordane	13.194	292146.77	22.7882	0.676	1	15.397
4,4'-DDE	13.450	285104.59	22.0494	0.676	1	14.898
Endosulfan I	13.517	273798.36	23.5031	0.676	1	15.881
Dieldrin	14.122	307001.23	23.5467	0.676	1	15.910
Endrin	14.685	262070.61	24.2579	0.676	1	16.390
4,4'-DDD	14.934	241002.57	22.9453	0.676	1	15.504
Endosulfan II	15.250	256502.28	22.8671	0.676	1	15.451
4,4'-DDT	15.616	239118.31	25.1467	0.676	1	16.991
Endrin aldehyde	16.298	151656.28	17.2455	0.676	1	11.652
Methoxychlor	16.853	124594.34	31.3255	0.676	1	21.166
Endosulfan sulfate	17.366	231269.09	23.5411	0.676	1	15.906
Endrin ketone	18.020	277313.56	23.9139	0.676	1	16.158
Decachlorobiphenyl	20.436	149539.12	19.0160	0.676	1	12.849
		5935784.46	518.6396			350.432

A 11/30/04

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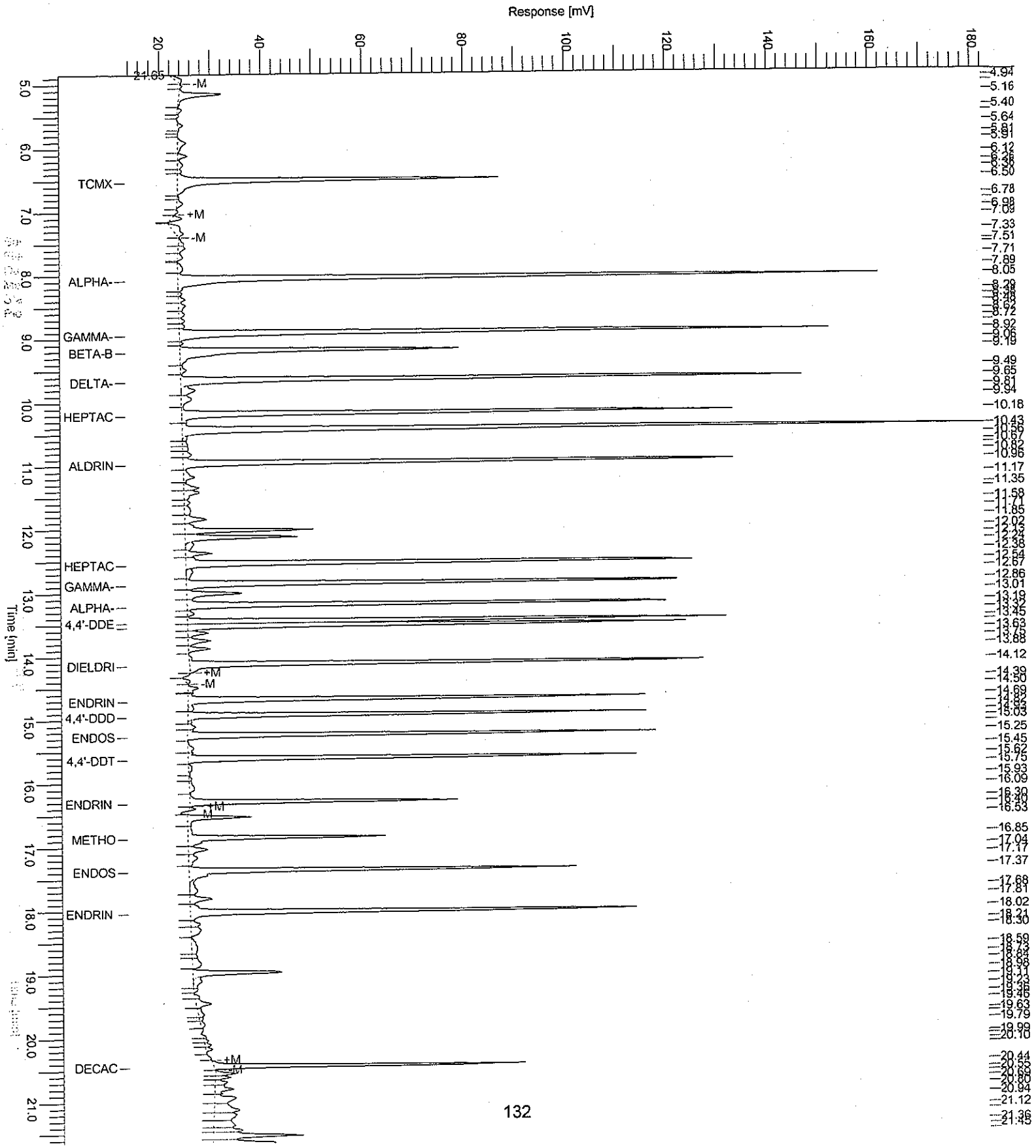
Report stored in ASCII file: G:\gc23\CHA\334a019p.TX0

GC23 Rtx-CLPesticides

Sample Name : qc273772,96829,ms
FileName : G:\gc23\CHa\334a019.raw
Date : 11/30/04 8:33:28 AM
Method :
Start Time : 4.85 min
Plot Offset: 13.26 mV

Sample #: 96829

Time of Injection: 11/29/04 9:38:02 PM
End Time : 21.65 min
Plot Scale: 169.1 mV
Low Point : 13.26 mV
High Point : 182.34 mV

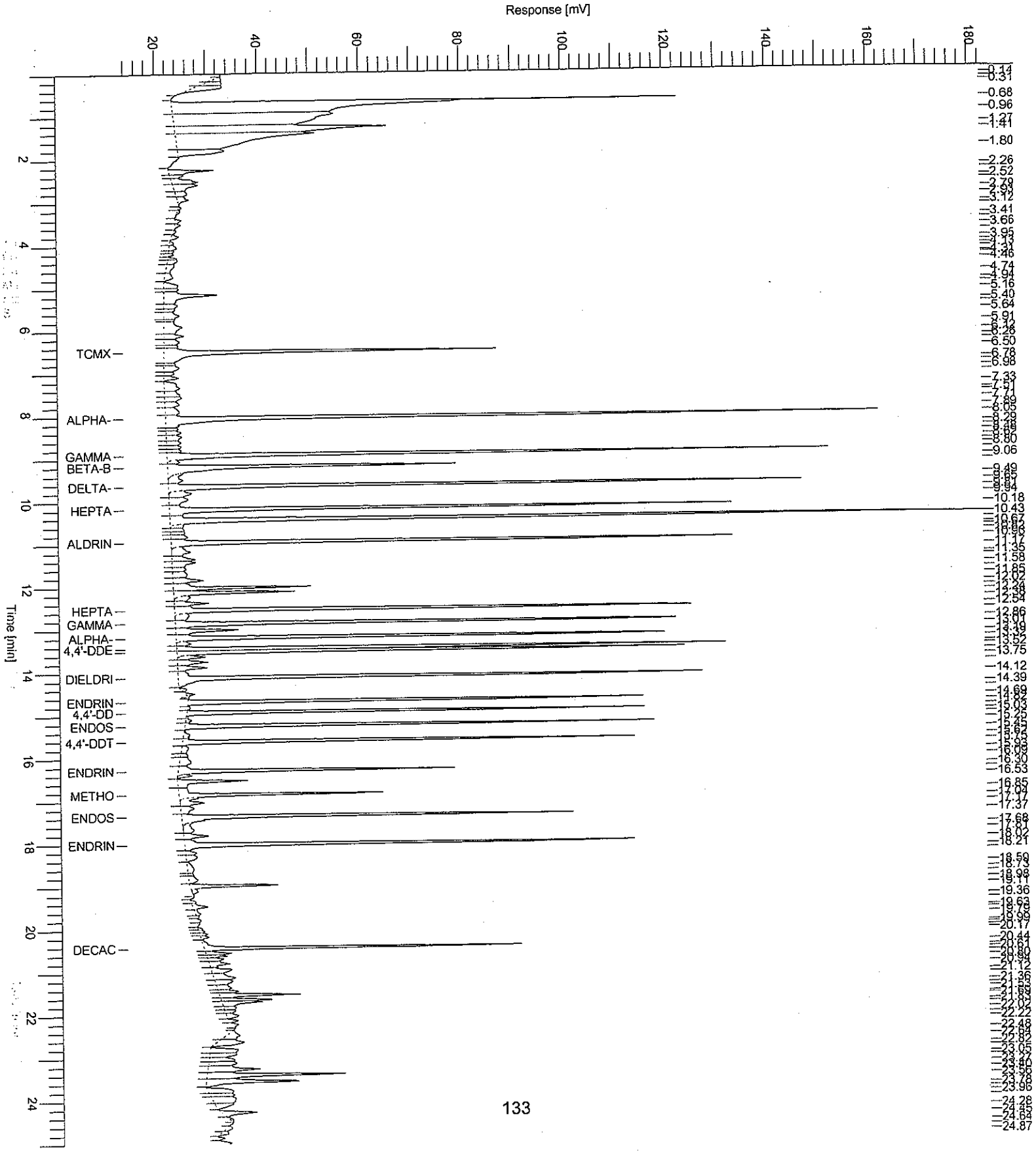


GC23 Rtx-CLPesticides

Sample Name : qc273772,96829,ms
FileName : G:\gc23\CHa\334a019.raw
Date : 11/30/04 8:19:42 AM
Method : gc23ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96829

Time of Injection: 11/29/04 9:38:02 PM
End Time : 25.00 min
Low Point : 13.68 mV
High Point : 182.34 mV
Plot Offset: 13.68 mV
Plot Scale: 168.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273772,96829,ms
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 11/30/04 10:56:56 AM
Data Acquisition Time : 11/29/04 9:38:02 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b019p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.849	270014.27	18.2976	0.676	1	12.363
alpha-BHC	8.483	557960.45	23.3862	0.676	1	15.802
gamma-BHC	9.423	523679.24	24.1604	0.676	1	16.325
beta-BHC	9.655	228409.42	25.0503	0.676	1	16.926
delta-BHC	10.419	545360.44	25.2955	0.676	1	17.092
Heptachlor	10.563	395642.57	23.9863	0.676	1	16.207
Aldrin	11.378	504209.82	25.2362	0.676	1	17.051
Heptachlor epoxide	12.848	477623.12	25.6074	0.676	1	17.302
gamma-Chlordane	13.317	479538.85	25.8757	0.676	1	17.484
alpha-Chlordane	13.688	463752.53	25.9627	0.676	1	17.542
Endosulfan I	13.804	435513.13	26.0489	0.676	1	17.601
4,4'-DDE	14.172	472740.04	26.8650	0.676	1	18.152
Dieldrin	14.486	451986.83	25.4644	0.676	1	17.206
Endrin	15.230	369675.83	25.4862	0.676	1	17.220
4,4'-DDD	15.596	351414.33	25.2748	0.676	1	17.078
Endosulfan II	15.752	390038.83	25.8413	0.676	1	17.460
4,4'-DDT	16.353	372175.50	28.7208	0.676	1	19.406
Endrin aldehyde	16.596	225709.72	19.6812	0.676	1	13.298
Endosulfan sulfate	17.268	331434.11	25.4582	0.676	1	17.201
Methoxychlor	18.083	152629.87	29.4134	0.676	1	19.874
Endrin ketone	18.548	390151.69	23.7464	0.676	1	16.045
Decachlorobiphenyl	21.232	317831.90	30.5011	0.676	1	20.609
		8707492.49	555.3601			375.243

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Report stored in ASCII file: G:\gc23\CHB\334b019p.TX0

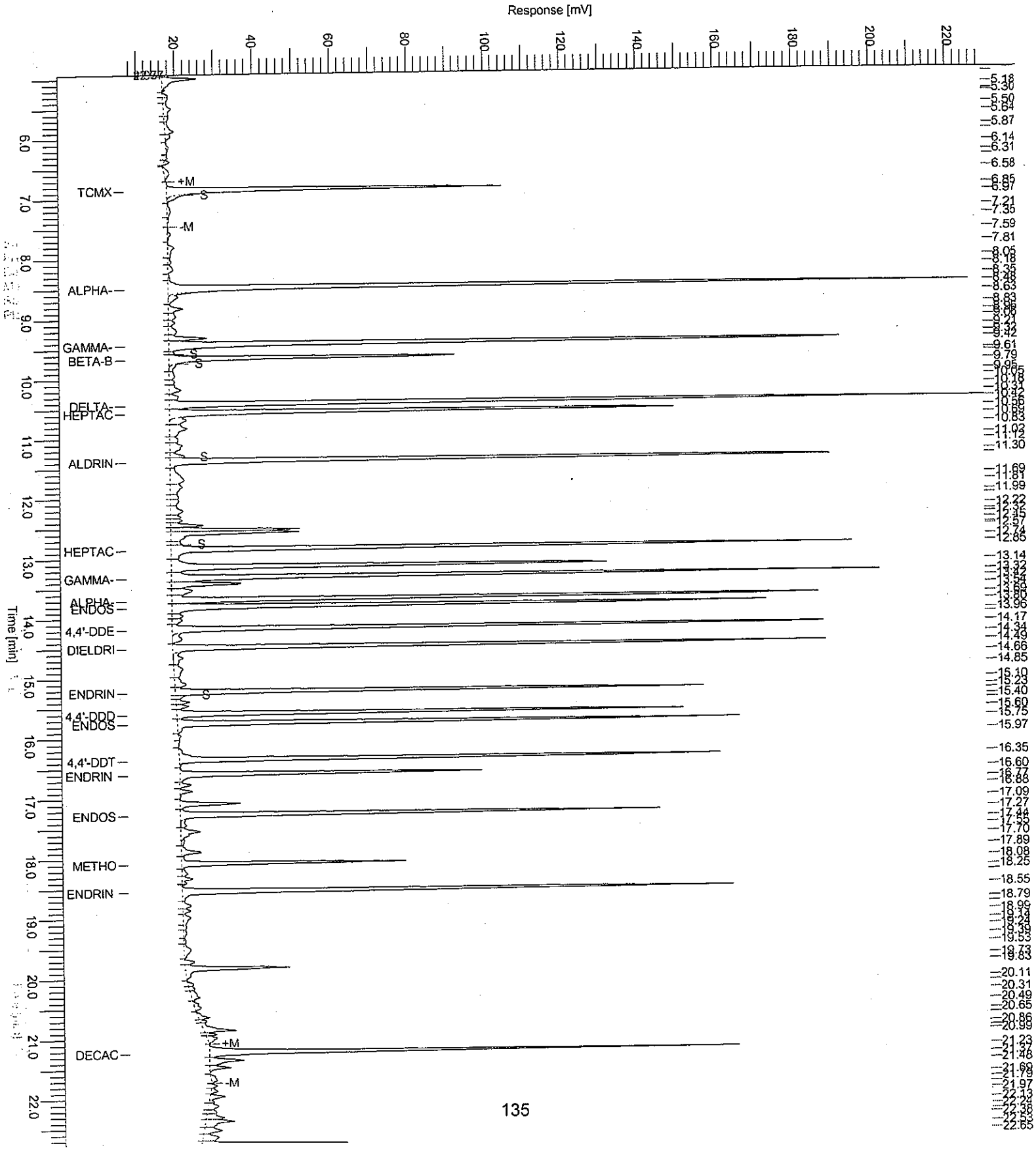
GC23 Rtx-CLPesticides2

Sample Name : qc273772,96829,ms
FileName : G:\gc23\CHb\334b019.raw
Date : 11/30/04 10:57:02 AM
Method :
Start Time : 4.93 min
Plot Offset: 6.87 mV

Sample #: 96829

Page 1 of 1

Time of Injection: 11/29/04 9:38:02 PM
End Time : 22.77 min
Plot Scale: 222.6 mV
Low Point : 6.87 mV
High Point : 229.46 mV

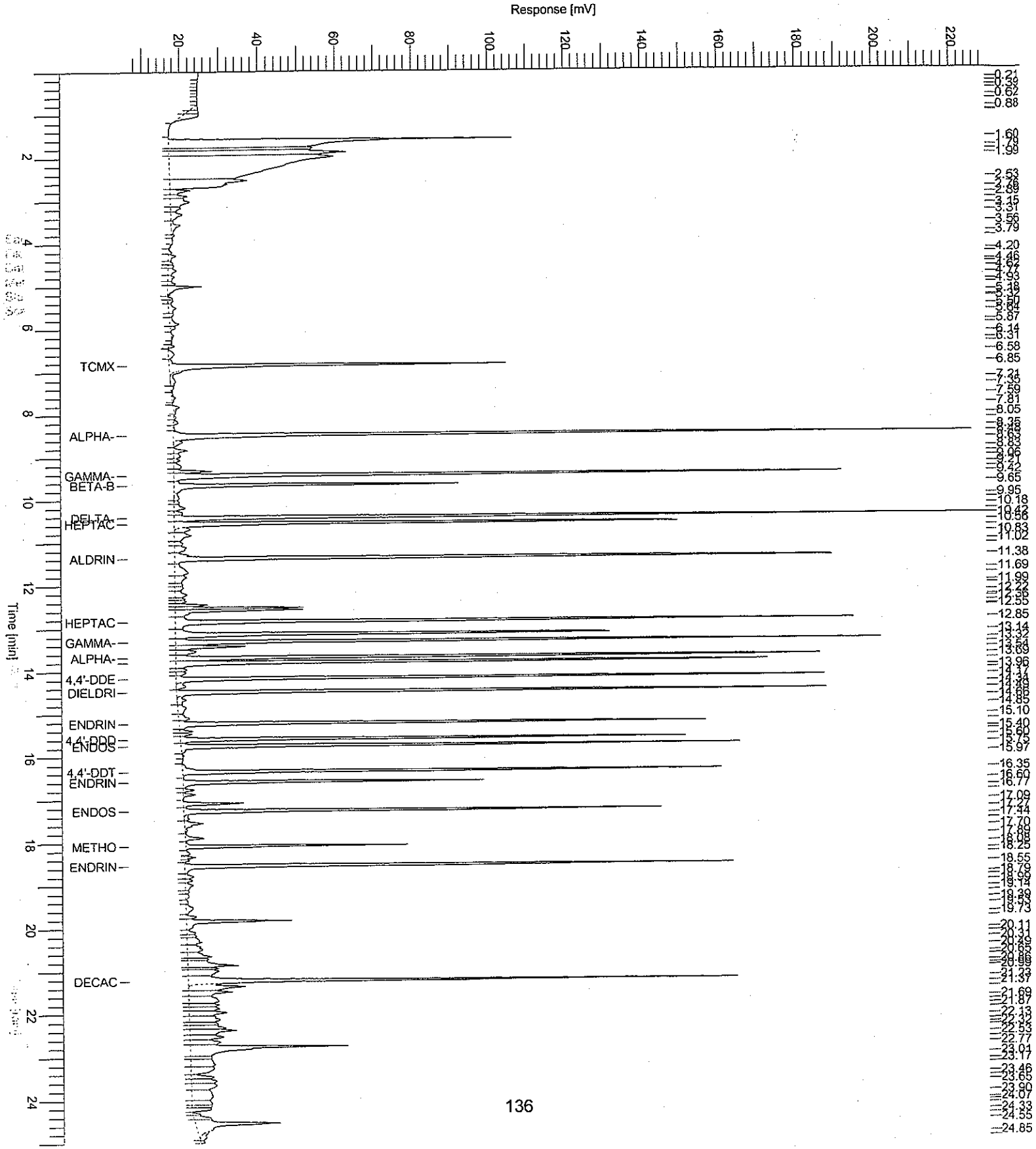


GC23 Rtx-CLPesticides2

Sample Name : qc273772,96829,ms
FileName : G:\gc23\CHb\334b019
Date : 11/30/04 8:19:27 AM
Method : gc23ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96829

Time of Injection: 11/29/04 9:38:02 PM
End Time : 25.00 min
Low Point : 6.15 mV
High Point : 229.46 mV
Plot Offset: 6.15 mV
Plot Scale: 223.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273778,96829,msd
Instrument Name : GC23 2
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 11/30/04 8:35:56 AM
Data Acquisition Time : 11/29/04 10:06:07 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a020p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.503	189718.94	17.6766	0.669	1	11.824
alpha-BHC	8.052	404935.85	23.4773	0.669	1	15.704
gamma-BHC	8.917	361390.68	23.2739	0.669	1	15.568
beta-BHC	9.190	208521.27	32.2492	0.669	1	21.571
delta-BHC	9.648	361116.66	23.0551	0.669	1	15.421
Heptachlor	10.183	299567.62	21.9202	0.669	1	14.662
Aldrin	10.961	325398.90	22.8742	0.669	1	15.300
Heptachlor epoxide	12.546	295707.56	22.6054	0.669	1	15.121
gamma-Chlordane	12.862	294018.00	22.2676	0.669	1	14.895
alpha-Chlordane	13.196	278262.38	21.7052	0.669	1	14.519
4,4'-DDE	13.451	268290.08	20.7490	0.669	1	13.879
Endosulfan I	13.518	275827.09	23.6773	0.669	1	15.838
Dieldrin	14.127	303359.63	23.2674	0.669	1	15.563
Endrin	14.687	272428.79	25.2167	0.669	1	16.867
4,4'-DDD	14.934	237831.20	22.6433	0.669	1	15.146
Endosulfan II	15.251	261616.56	23.3231	0.669	1	15.601
4,4'-DDT	15.616	239988.03	25.2382	0.669	1	16.882
Endrin aldehyde	16.298	159160.88	18.0988	0.669	1	12.106
Methoxychlor	16.855	130299.59	32.7600	0.669	1	21.913
Endosulfan sulfate	17.367	219681.77	22.3616	0.669	1	14.958
Endrin ketone	18.021	322291.86	27.7926	0.669	1	18.590
Decachlorobiphenyl	20.437	155016.62	19.7125	0.669	1	13.186
		5864429.98	515.9451			345.114

FA 11/30/04

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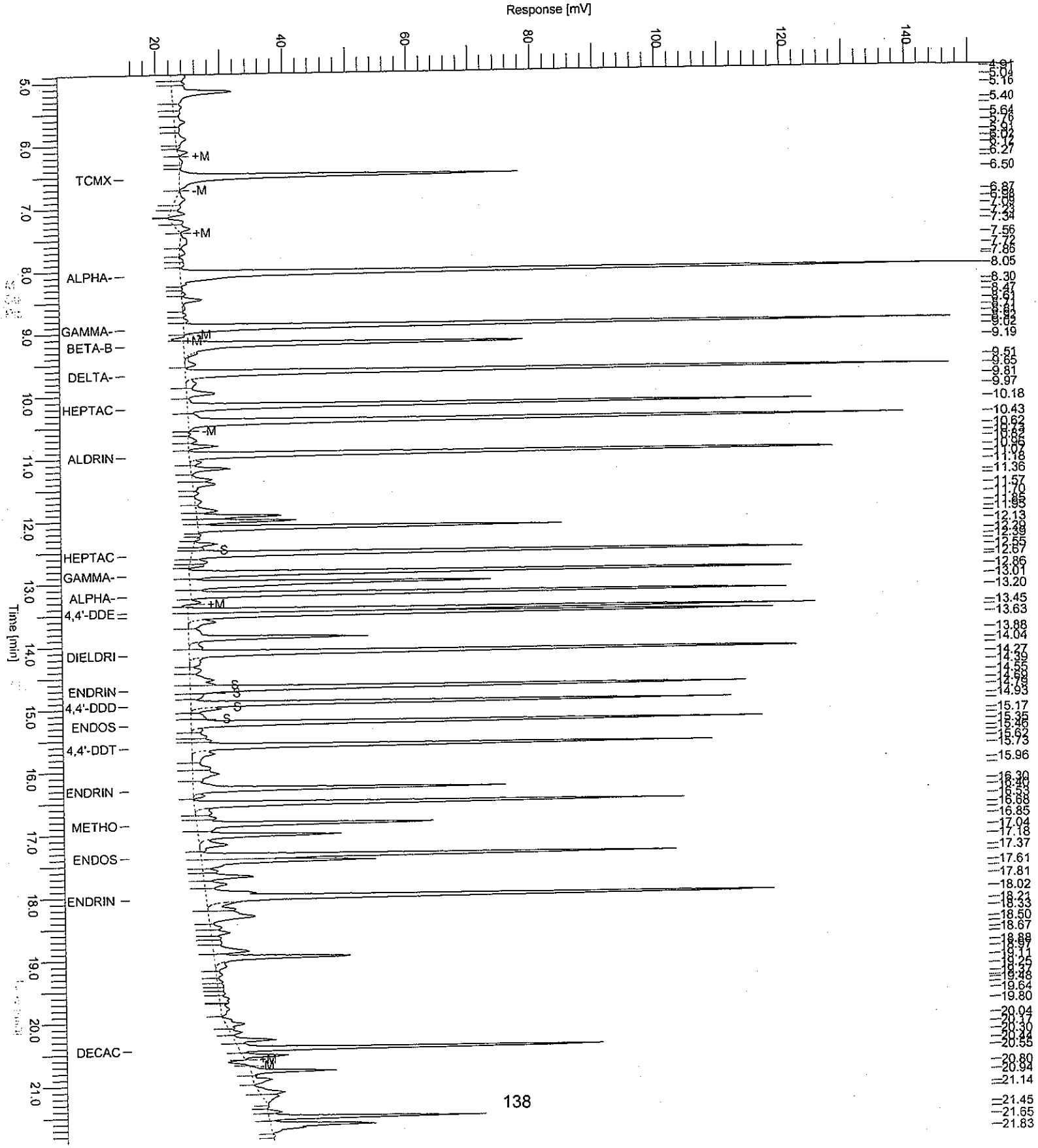
Report stored in ASCII file: G:\gc23\CHA\334a020p.TX0

GC23 Rtx-CLPesticides

Sample Name : qc273773,96829,msd
FileName : G:\gc23\CHa\334a020.raw
Date : 11/30/04 8:36:03 AM
Method :
Start Time : 4.88 min
Plot Offset: 14.85 mV

Sample #: 96829

Time of Injection: 11/29/04 10:06:07 PM
End Time : 21.90 min
Plot Scale: 137.0 mV
Low Point : 14.85 mV
High Point : 151.87 mV

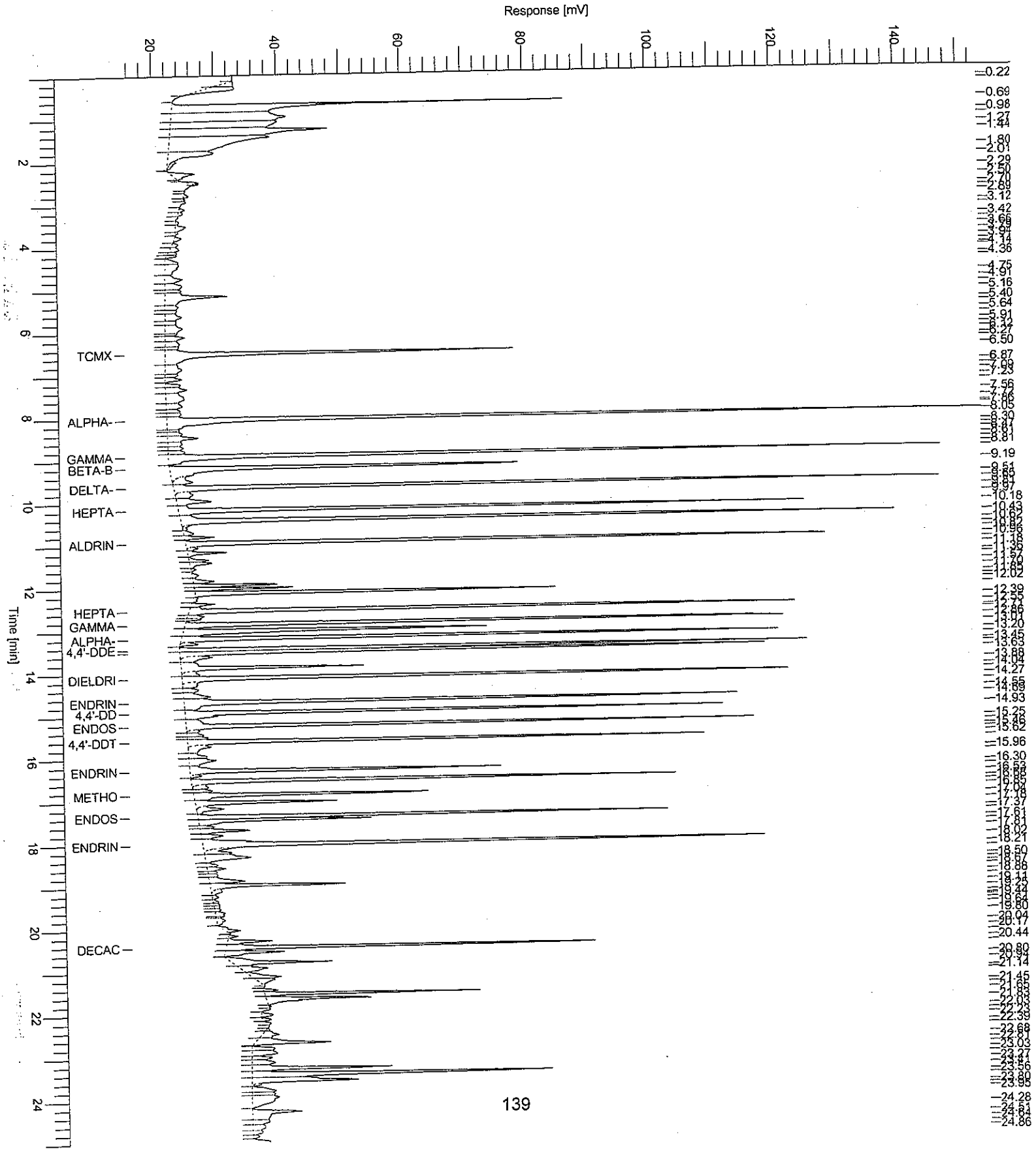


GC23 Rtx-CLPesticides

Sample Name : qc273773,96829,msd
FileName : G:\gc23\CHa\334a020.raw
Date : 11/30/04 8:19:49 AM
Method : gc23ins
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 96829

Time of Injection: 11/29/04 10:06:07 PM
End Time : 25.00 min
Plot Offset: 15.20 mV
Low Point : 15.20 mV
Plot Scale: 138.3 mV
High Point : 153.51 mV



Software Version : 6.1.2.0.1:D19
Sample Name : qc273773,96829,msd
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 11/30/04 11:01:15 AM
Data Acquisition Time : 11/29/04 10:06:07 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b020p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.850	276310.27	18.7243	0.669	1	12.525
alpha-BHC	8.484	625886.08	26.2333	0.669	1	17.547
gamma-BHC	9.429	589659.06	27.2044	0.669	1	18.197
beta-BHC	9.661	236312.00	25.9170	0.669	1	17.336
delta-BHC	10.419	599752.99	27.8183	0.669	1	18.608
Heptachlor	10.564	382907.64	23.2142	0.669	1	15.528
Aldrin	11.379	546430.81	27.3494	0.669	1	18.294
Heptachlor epoxide	12.849	511498.18	27.4236	0.669	1	18.344
gamma-Chlordane	13.318	501122.86	27.0404	0.669	1	18.087
alpha-Chlordane	13.688	510116.41	28.5583	0.669	1	19.103
Endosulfan I	13.805	449349.51	26.8765	0.669	1	17.978
4,4'-DDE	14.179	619023.98	35.1781	0.669	1	23.531
Dieldrin	14.488	502257.62	28.2966	0.669	1	18.928
Endrin	15.231	391403.73	26.9841	0.669	1	18.050
4,4'-DDD	15.597	376770.72	27.0985	0.669	1	18.126
Endosulfan II	15.753	466032.10	30.8761	0.669	1	20.653
4,4'-DDT	16.354	373910.69	28.8547	0.669	1	19.301
Endrin aldehyde	16.597	282025.67	24.5918	0.669	1	16.449
Endosulfan sulfate	17.268	401538.93	30.8431	0.669	1	20.631
Methoxychlor	18.084	172297.92	33.2036	0.669	1	22.210
Endrin ketone	18.548	463532.00	28.2127	0.669	1	18.871
Decachlorobiphenyl	21.231	491755.68	47.1919	0.669	1	31.567
		9769894.88	627.6910			419.860

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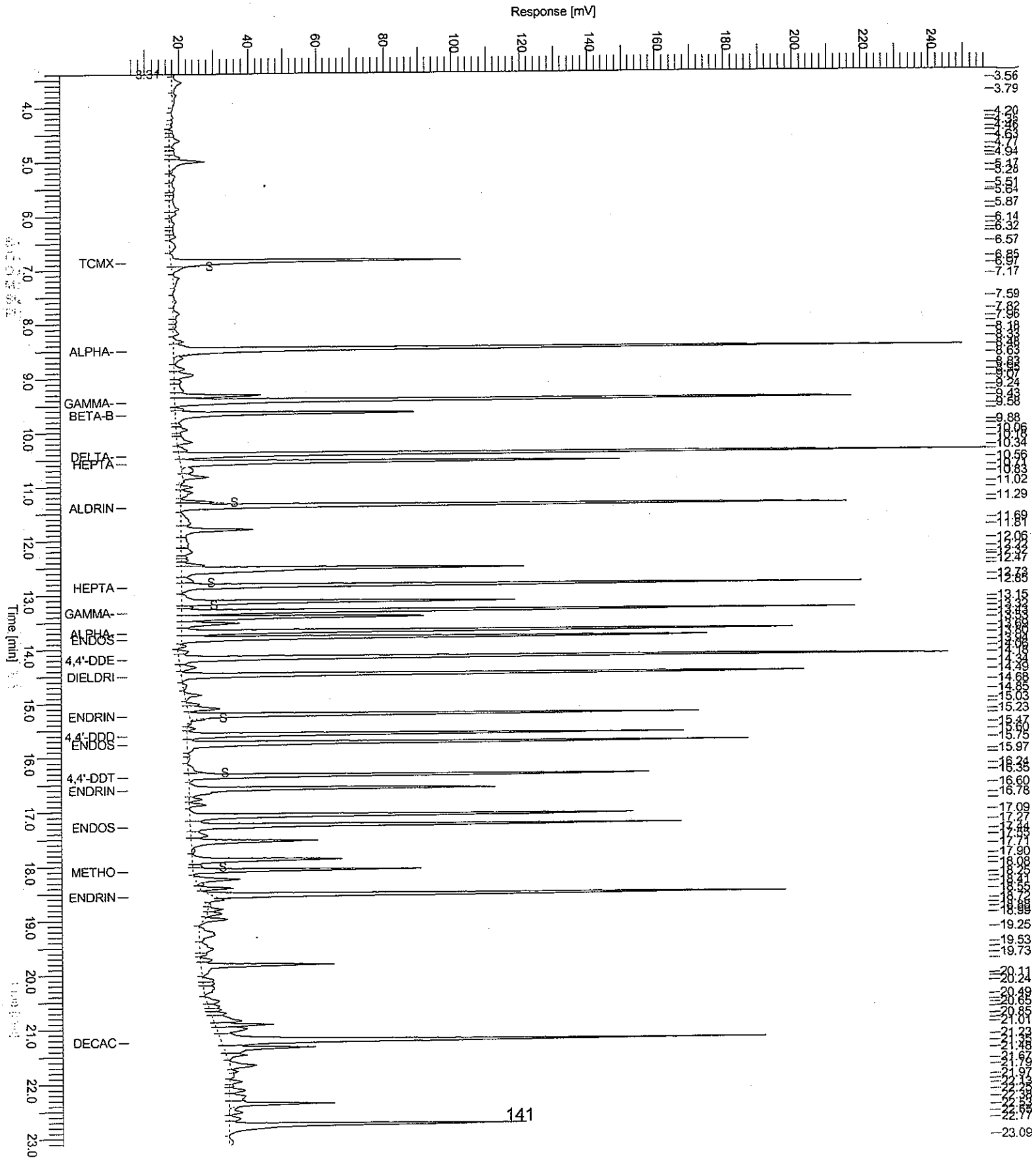
Report stored in ASCII file: G:\gc23\CHB\334b020p.TX0

GC23 Rtx-CLPesticides2

Sample Name : qc273773,96829,msd Sample #: 96829 Page 1 of 1
FileName : G:\gc23\CHb\334b020.raw
Date : 11/30/04 11:01:21 AM
Method : Time of Injection: 11/29/04 10:06:07 PM
Start Time : 3.40 min End Time : 23.13 min Low Point : 4.53 mV High Point : 256.34 mV
Plot Offset: 4.53 mV Plot Scale: 251.8 mV

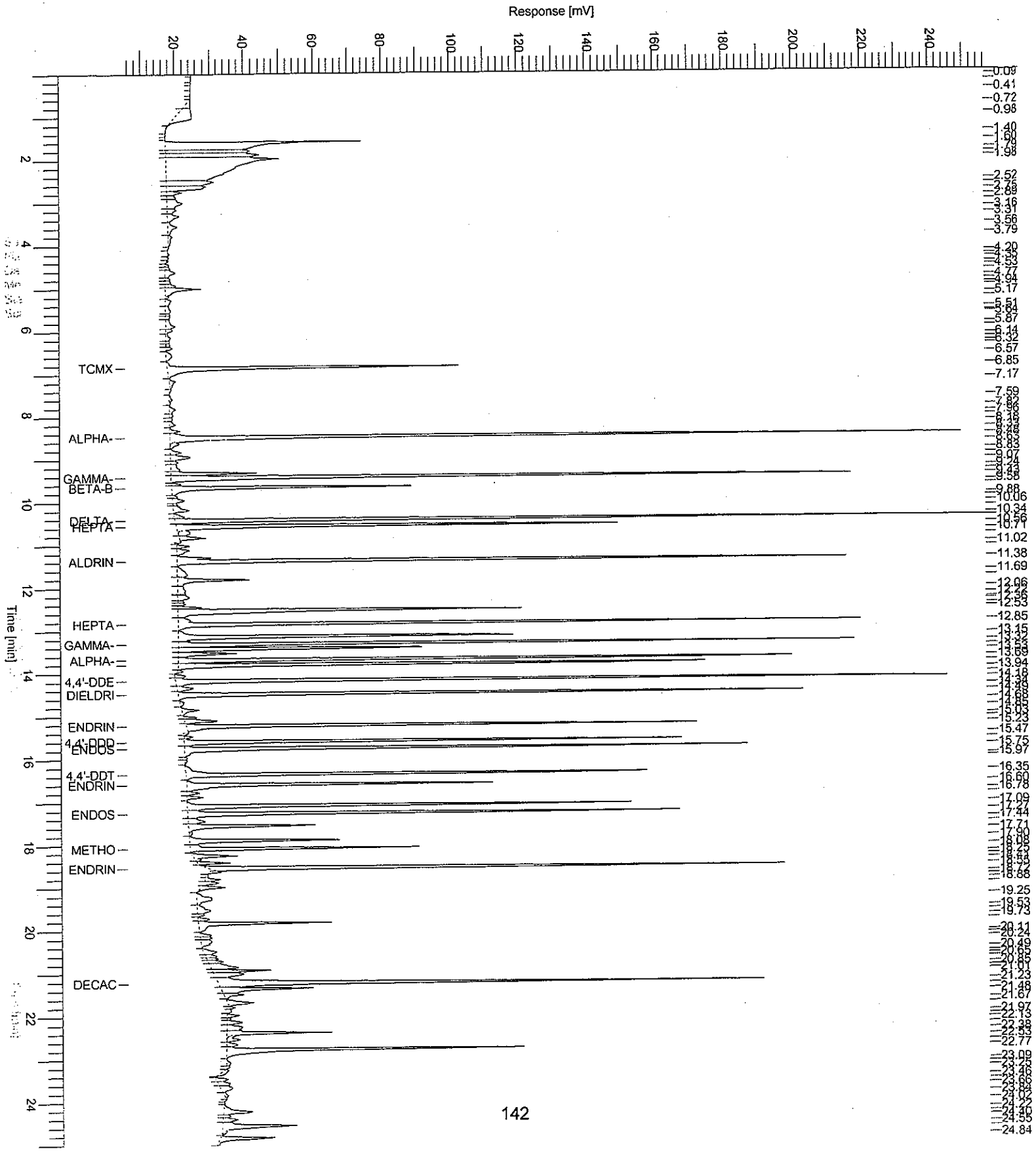


GC23 Rtx-CLPesticides2

Sample Name : qc273773,96829,msd
FileName : G:\gc23\CHb\334b020
Date : 11/30/04 8:19:35 AM
Method : gc23ins
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 5.16 mV

Sample #: 96829 Page 1 of 1

Time of Injection: 11/29/04 10:06:07 PM
Low Point : 5.16 mV High Point : 256.34 mV
Plot Scale: 251.2 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

Turbochrom Method File G:\gc21\files\8081a335.mth
Printed by : analyst on: 12/1/04 1:12:20 PM
Created by : analyst on: 12/1/04 12:14:28 PM
Edited by : analyst on: 12/1/04 1:12:14 PM
Number of Times Edited : 2
Number of Times Calibrated : 138
Description: gc 21

/mcs 12/1/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

cuf 12/1/04

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 8.519 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	34440.01	8764.98	----------	----------	1
2	10.0000	79817.00	21363.38	----------	----------	1
3	20.0000	147616.00	38609.57	----------	----------	1
4	40.0000	292739.00	73185.95	----------	----------	1
5	50.0000	367039.00	92885.82	----------	----------	1
6	100.0000	764406.00	206269.79	----------	----------	1
7	200.0000	1527290.00	425913.08	----------	----------	1

Average Calibration Factor = 7701.752413 (%RSD = 6.02)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 10.176 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	27599.74	7659.37	----------	----------	1
2	5.0000	61834.00	17696.54	----------	----------	1
3	10.0000	116889.00	33913.86	----------	----------	1
4	20.0000	234518.03	66306.08	----------	----------	1
5	25.0000	299200.66	85579.72	----------	----------	1
6	50.0000	633961.52	183803.06	----------	----------	1
7	100.0000	1296130.74	392289.68	----------	----------	1

Average Calibration Factor = 12455.719360 (%RSD = 6.11)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 11.085 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	25824.55	7817.65	----------	----------	1
2	5.0000	56354.33	17315.09	----------	----------	1
3	10.0000	106334.40	32282.89	----------	----------	1
4	20.0000	210866.56	62898.95	----------	----------	1
5	25.0000	269379.38	81272.96	----------	----------	1
6	50.0000	564114.42	175228.38	----------	----------	1
7	100.0000	1141417.42	362097.67	----------	----------	1

Average Calibration Factor = 11261.649548 (%RSD = 7.16)

beta-BHC

Component Type : Single Peak Component
Retention Time : 11.339 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	13096.00	3979.79	----------	----------	1
2	5.0000	25611.70	7752.64	----------	----------	1
3	10.0000	47250.55	14582.13	----------	----------	1
4	20.0000	91384.21	27017.29	----------	----------	1
5	25.0000	116073.36	34242.96	----------	----------	1
6	50.0000	228549.64	69765.39	----------	----------	1
7	100.0000	425976.09	128212.84	----------	----------	1

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Average Calibration Factor = 4919.756045 (%RSD = 15.50)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.836 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	32179.02	10029.01	----------	----------	1
2	5.0000	58212.00	18278.03	----------	----------	1
3	10.0000	107716.50	33763.92	----------	----------	1
4	20.0000	210636.50	64065.68	----------	----------	1
5	25.0000	271970.00	84085.23	----------	----------	1
6	50.0000	569445.43	181604.92	----------	----------	1
7	100.0000	1155370.55	370502.61	----------	----------	1

Average Calibration Factor = 11836.685237 (%RSD = 16.24)

Heptachlor
Component Type : Single Peak Component
Retention Time : 12.406 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	22699.00	7131.85	----------	----------	1
2	5.0000	50200.00	15656.19	----------	----------	1
3	10.0000	97599.00	30984.82	----------	----------	1
4	20.0000	192457.19	58551.28	----------	----------	1
5	25.0000	250849.00	76443.73	----------	----------	1
6	50.0000	517137.00	163826.94	----------	----------	1
7	100.0000	1036698.00	322241.05	----------	----------	1

Average Calibration Factor = 10216.562754 (%RSD = 5.58)

Aldrin
Component Type : Single Peak Component
Retention Time : 13.223 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24035.24	7593.59	----------	----------	1
2	5.0000	53296.29	16734.61	----------	----------	1
3	10.0000	101375.00	32546.44	----------	----------	1
4	20.0000	197907.00	61195.58	----------	----------	1
5	25.0000	255662.07	79293.51	----------	----------	1
6	50.0000	530762.50	169933.09	----------	----------	1
7	100.0000	1058595.90	335901.48	----------	----------	1

Average Calibration Factor = 10591.059714 (%RSD = 6.52)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 14.840 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	24027.78	7744.05	----------	----------	1
2	5.0000	49478.00	15623.80	----------	----------	1
3	10.0000	94787.00	30786.33	----------	----------	1
4	20.0000	182863.00	57665.59	----------	----------	1
5	25.0000	236228.80	73659.01	----------	----------	1
6	50.0000	482795.00	155008.32	----------	----------	1
7	100.0000	941092.00	301867.45	----------	----------	1

Average Calibration Factor = 9863.901704 (%RSD = 9.89)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 15.158 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23864.27	7589.30	----------	----------	1
2	5.0000	49434.36	15545.30	----------	----------	1
3	10.0000	94757.00	30752.71	----------	----------	1
4	20.0000	183530.50	58623.60	----------	----------	1
5	25.0000	237281.00	74704.14	----------	----------	1
6	50.0000	492190.00	158902.33	----------	----------	1
7	100.0000	984690.50	321945.93	----------	----------	1

Average Calibration Factor = 9950.453567 (%RSD = 9.16)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 15.500 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23567.74	7708.75	----------	----------	1
2	5.0000	47998.00	15881.36	----------	----------	1
3	10.0000	91758.50	29733.30	----------	----------	1
4	20.0000	176226.00	57640.53	----------	----------	1
5	25.0000	228177.00	75160.05	----------	----------	1
6	50.0000	469136.00	156051.49	----------	----------	1
7	100.0000	934706.00	317020.37	----------	----------	1

Average Calibration Factor = 9603.926020 (%RSD = 10.33)

4,4'-DDE

Component Type : Single Peak Component
Retention Time : 15.688 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	44766.04	15050.12	----------	----------	1
2	10.0000	94726.20	30638.12	----------	----------	1
3	20.0000	180446.50	60419.37	----------	----------	1
4	40.0000	352946.00	112885.43	----------	----------	1
5	50.0000	465498.00	153101.37	----------	----------	1
6	100.0000	1006811.00	342561.39	----------	----------	1
7	200.0000	2100458.00	701329.42	----------	----------	1

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Average Calibration Factor = 9770.066508 (%RSD = 8.77)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 15.860 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23105.25	7137.08	----------	----------	1
2	5.0000	46207.11	14442.10	----------	----------	1
3	10.0000	86163.50	27268.04	----------	----------	1
4	20.0000	164932.50	53090.07	----------	----------	1
5	25.0000	212652.50	67445.52	----------	----------	1
6	50.0000	431500.50	134436.08	----------	----------	1
7	100.0000	836321.50	272124.86	----------	----------	1

Average Calibration Factor = 9022.335295 (%RSD = 12.86)

Dieldrin
Component Type : Single Peak Component
Retention Time : 16.469 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	46092.68	15099.42	----------	----------	1
2	10.0000	98763.38	31824.07	----------	----------	1
3	20.0000	189739.54	61852.51	----------	----------	1
4	40.0000	371465.84	116948.06	----------	----------	1
5	50.0000	487666.27	157646.07	----------	----------	1
6	100.0000	1042256.37	345023.46	----------	----------	1
7	200.0000	2096455.04	680093.32	----------	----------	1

Average Calibration Factor = 10118.756422 (%RSD = 7.53)

Endrin
Component Type : Single Peak Component
Retention Time : 17.061 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	38044.49	11726.46	----------	----------	1
2	10.0000	74955.00	23876.79	----------	----------	1
3	20.0000	147217.00	46147.80	----------	----------	1
4	40.0000	283681.50	91680.12	----------	----------	1
5	50.0000	371629.00	119401.55	----------	----------	1
6	100.0000	767624.00	244320.61	----------	----------	1
7	200.0000	1540128.00	512260.77	----------	----------	1

Average Calibration Factor = 7752.709831 (%RSD = 10.34)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 17.208 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	39697.55	12918.79	----------	----------	1
2	10.0000	80345.70	25508.34	----------	----------	1
3	20.0000	150966.00	49710.17	----------	----------	1
4	40.0000	290678.50	95044.56	----------	----------	1
5	50.0000	377738.00	121649.48	----------	----------	1
6	100.0000	806014.00	268450.71	----------	----------	1
7	200.0000	1652396.00	556923.98	----------	----------	1

Average Calibration Factor = 8093.014090 (%RSD = 10.88)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 17.631 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	44899.91	12990.03	----------	----------	1
2	10.0000	82436.58	25966.88	----------	----------	1
3	20.0000	154350.42	47699.20	----------	----------	1
4	40.0000	292831.00	93857.66	----------	----------	1
5	50.0000	383801.39	123889.30	----------	----------	1
6	100.0000	797472.95	258114.42	----------	----------	1
7	200.0000	1615478.31	539626.96	----------	----------	1

Average Calibration Factor = 8319.297261 (%RSD = 15.82)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.902 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	31405.18	10180.01	----------	----------	1
2	10.0000	60271.83	19627.07	----------	----------	1
3	20.0000	126165.46	41750.81	----------	----------	1
4	40.0000	245830.00	79686.16	----------	----------	1
5	50.0000	336836.11	110679.39	----------	----------	1
6	100.0000	706199.55	239258.35	----------	----------	1
7	200.0000	1518492.19	514383.82	----------	----------	1

Average Calibration Factor = 6817.668533 (%RSD = 10.49)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 18.687 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	37631.90	12075.53	----------	----------	1
2	10.0000	68712.09	21665.20	----------	----------	1
3	20.0000	126287.31	40198.46	----------	----------	1
4	40.0000	234934.62	71910.62	----------	----------	1
5	50.0000	306086.45	95508.12	----------	----------	1
6	100.0000	628055.86	201136.80	----------	----------	1
7	200.0000	1259987.01	399919.53	----------	----------	1

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Average Calibration Factor = 6738.448275 (%RSD = 18.03)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 19.096 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	66272.13	21304.24	----------	----------	1
2	50.0000	138576.89	45324.36	----------	----------	1
3	100.0000	286954.91	91852.88	----------	----------	1
4	200.0000	557359.75	188015.75	----------	----------	1
5	250.0000	767083.31	257871.41	----------	----------	1
6	500.0000	1582473.15	525205.30	----------	----------	1
7	1000.0000	2830213.97	936269.39	----------	----------	1

Average Calibration Factor = 2972.140816 (%RSD = 7.11)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 19.782 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	37676.50	11708.80	----------	----------	1
2	10.0000	71293.00	22238.20	----------	----------	1
3	20.0000	133177.35	40778.06	----------	----------	1
4	40.0000	251431.94	78148.16	----------	----------	1
5	50.0000	327700.74	102244.76	----------	----------	1
6	100.0000	675600.57	212796.15	----------	----------	1
7	200.0000	1425955.38	467303.37	----------	----------	1

Average Calibration Factor = 7133.269787 (%RSD = 14.75)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 20.430 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	41499.00	14046.67	----------	----------	1
2	10.0000	80783.00	27352.97	----------	----------	1
3	20.0000	150141.20	49935.50	----------	----------	1
4	40.0000	283200.99	98649.48	----------	----------	1
5	50.0000	372700.80	128711.78	----------	----------	1
6	100.0000	776573.11	267467.16	----------	----------	1
7	200.0000	1561915.24	557612.22	----------	----------	1

Average Calibration Factor = 8009.922584 (%RSD = 13.60)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 22.099 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	49480.98	19504.74	----------	----------	1
3	20.0000	102784.93	40414.58	----------	----------	1
4	40.0000	191238.46	75842.86	----------	----------	1
5	50.0000	260657.93	103134.41	----------	----------	1
6	100.0000	523792.06	209528.82	----------	----------	1
1	4.0000	22685.85	8982.94	----------	----------	1
7	200.0000	1207097.19	494075.05	----------	----------	1

Average Calibration Factor = 5289.476220 (%RSD = 8.13)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
34440.01	8764.98	4.0000	---------	---------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
79817.00	21363.38	10.0000	---------	---------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
147616.00	38609.57	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
292739.00	73185.95	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
367039.00	92885.82	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
764406.00	206269.79	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1527290.00	425913.08	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
27599.74	7659.37	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
61834.00	17696.54	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116889.00	33913.86	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234518.03	66306.08	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299200.66	85579.72	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
633961.52	183803.06	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1296130.74	392289.68	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : gamma-BHC
Level : 1

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25824.55	7817.65	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56354.33	17315.09	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106334.40	32282.89	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
210866.56	62898.95	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
269379.38	81272.96	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
564114.42	175228.38	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1141417.42	362097.67	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : beta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
13096.00	3979.79	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25611.70	7752.64	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47250.55	14582.13	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91384.21	27017.29	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
116073.36	34242.96	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
228549.64	69765.39	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
425976.09	128212.84	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : delta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
32179.02	10029.01	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58212.00	18278.03	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
107716.50	33763.92	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
210636.50	64065.68	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
271970.00	84085.23	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
569445.43	181604.92	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1155370.55	370502.61	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Heptachlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22699.00	7131.85	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50200.00	15656.19	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
97599.00	30984.82	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
192457.19	58551.28	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
250849.00	76443.73	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
517137.00	163826.94	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1036698.00	322241.05	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24035.24	7593.59	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53296.29	16734.61	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
101375.00	32546.44	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
197907.00	61195.58	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
255662.07	79293.51	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
530762.50	169933.09	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1058595.90	335901.48	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24027.78	7744.05	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49478.00	15623.80	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94787.00	30786.33	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182863.00	57665.59	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
236228.80	73659.01	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
482795.00	155008.32	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
941092.00	301867.45	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : gamma-Chlordane

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23864.27	7589.30	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49434.36	15545.30	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94757.00	30752.71	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
183530.50	58623.60	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
237281.00	74704.14	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
492190.00	158902.33	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
984690.50	321945.93	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23567.74	7708.75	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47998.00	15881.36	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91758.50	29733.30	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
176226.00	57640.53	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
228177.00	75160.05	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
469136.00	156051.49	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
934706.00	317020.37	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44766.04	15050.12	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94726.20	30638.12	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
180446.50	60419.37	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
352946.00	112885.43	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
465498.00	153101.37	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1006811.00	342561.39	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2100458.00	701329.42	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Endosulfan I

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23105.25	7137.08	2.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46207.11	14442.10	5.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
86163.50	27268.04	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
164932.50	53090.07	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
212652.50	67445.52	25.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
431500.50	134436.08	50.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
836321.50	272124.86	100.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Dieldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46092.68	15099.42	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98763.38	31824.07	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
189739.54	61852.51	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371465.84	116948.06	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
487666.27	157646.07	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1042256.37	345023.46	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2096455.04	680093.32	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38044.49	11726.46	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74955.00	23876.79	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
147217.00	46147.80	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
283681.50	91680.12	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371629.00	119401.55	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
767624.00	244320.61	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1540128.00	512260.77	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : 4,4'-DDD
Level : 1

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39697.55	12918.79	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80345.70	25508.34	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
150966.00	49710.17	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
290678.50	95044.56	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
377738.00	121649.48	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
806014.00	268450.71	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1652396.00	556923.98	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44899.91	12990.03	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
82436.58	25966.88	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154350.42	47699.20	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
292831.00	93857.66	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
383801.39	123889.30	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
797472.95	258114.42	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1615478.31	539626.96	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : 4,4'-DDT

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31405.18	10180.01	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60271.83	19627.07	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126165.46	41750.81	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
245830.00	79686.16	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
336836.11	110679.39	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
706199.55	239258.35	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1518492.19	514383.82	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Endrin aldehyde

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37631.90	12075.53	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68712.09	21665.20	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126287.31	40198.46	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
234934.62	71910.62	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
306086.45	95508.12	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
628055.86	201136.80	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1259987.01	399919.53	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
66272.13	21304.24	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
138576.89	45324.36	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
286954.91	91852.88	100.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
557359.75	188015.75	200.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
767083.31	257871.41	250.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1582473.15	525205.30	500.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2830213.97	936269.39	1000.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
37676.50	11708.80	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71293.00	22238.20	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133177.35	40778.06	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
251431.94	78148.16	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
327700.74	102244.76	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
675600.57	212796.15	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1425955.38	467303.37	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Endrin ketone

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41499.00	14046.67	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80783.00	27352.97	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
150141.20	49935.50	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
283200.99	98649.48	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
372700.80	128711.78	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
776573.11	267467.16	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 7

12/1/04 1:12:20 PM Method: G:\gc21\files\8081a335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1561915.24	557612.22	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Component : Decachlorobiphenyl
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49480.98	19504.74	10.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
102784.93	40414.58	20.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
191238.46	75842.86	40.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
260657.93	103134.41	50.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
523792.06	209528.82	100.0000	----------	----------	12/1/04	1:11:01 PM	G:\gc21\CHA\335a012p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22685.85	8982.94	4.0000	----------	----------	12/1/04	1:11:00 PM	G:\gc21\CHA\335a007p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1207097.19	494075.05	200.0000	----------	----------	12/1/04	1:12:05 PM	G:\gc21\CHA\335a013p.rst

Turbochrom Method File G:\gc21\files\8081b335.mth
Printed by : analyst on: 12/1/04 1:41:48 PM
Created by : analyst on: 12/1/04 12:12:22 PM
Edited by : analyst on: 12/1/04 1:41:44 PM
Number of Times Edited : 1
Number of Times Calibrated : 126
Description: gc 21

12/2/04

Global Sample Information
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information
TCMX
Component Type : Single Peak Component
Retention Time : 7.821 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	85479.00	20680.80	----------	----------	1
3	20.0000	166700.50	43119.89	----------	----------	1
4	40.0000	322130.50	78313.66	----------	----------	1
5	50.0000	424432.50	103878.32	----------	----------	1
6	100.0000	844312.50	213195.02	----------	----------	1
7	200.0000	1702623.50	437642.10	----------	----------	1
1	4.0000	36615.00	9073.09	----------	----------	1

Average Calibration Factor = 8504.975714 (%RSD = 3.90)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 9.512 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	28470.00	7949.93	----------	----------	1
2	5.0000	65460.00	18589.65	----------	----------	1
3	10.0000	127312.61	37185.32	----------	----------	1
4	20.0000	247353.84	70602.28	----------	----------	1
5	25.0000	323472.00	90588.82	----------	----------	1
6	50.0000	648097.00	186725.66	----------	----------	1
7	100.0000	1329969.00	398238.75	----------	----------	1

Average Calibration Factor = 13089.494771 (%RSD = 4.46)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 10.480 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	25313.50	7610.14	----------	----------	1
2	5.0000	57729.00	17560.57	----------	----------	1
3	10.0000	112476.00	34015.79	----------	----------	1
4	20.0000	220263.00	67655.21	----------	----------	1
5	25.0000	285373.31	86619.40	----------	----------	1
6	50.0000	571934.33	177322.14	----------	----------	1
7	100.0000	1165317.50	373121.70	----------	----------	1

Average Calibration Factor = 11567.156259 (%RSD = 4.53)

beta-BHC

Component Type : Single Peak Component
Retention Time : 10.701 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	11243.00	3570.09	----------	----------	1
2	5.0000	24913.00	7958.49	----------	----------	1
3	10.0000	48510.22	15592.57	----------	----------	1
4	20.0000	94154.00	29530.86	----------	----------	1
5	25.0000	119287.00	37559.64	----------	----------	1
6	50.0000	227894.00	72733.34	----------	----------	1
7	100.0000	436766.50	140976.61	----------	----------	1

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Average Calibration Factor = 4837.121059 (%RSD = 8.25)

delta-BHC
Component Type : Single Peak Component
Retention Time : 11.484 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	28870.66	9476.94	----------	----------	1
2	5.0000	60527.67	19806.71	----------	----------	1
3	10.0000	115243.50	37891.55	----------	----------	1
4	20.0000	226909.50	73212.76	----------	----------	1
5	25.0000	287695.00	94109.65	----------	----------	1
6	50.0000	587958.50	198054.26	----------	----------	1
7	100.0000	1198765.00	404411.41	----------	----------	1

Average Calibration Factor = 12095.044023 (%RSD = 8.82)

Heptachlor
Component Type : Single Peak Component
Retention Time : 11.650 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	21031.00	6793.83	----------	----------	1
2	5.0000	47486.75	15319.49	----------	----------	1
3	10.0000	94313.00	30301.31	----------	----------	1
4	20.0000	185394.00	59603.14	----------	----------	1
5	25.0000	245554.00	79020.90	----------	----------	1
6	50.0000	473257.00	155573.73	----------	----------	1
7	100.0000	951347.83	315469.53	----------	----------	1

Average Calibration Factor = 9644.946983 (%RSD = 4.33)

Aldrin
Component Type : Single Peak Component
Retention Time : 12.489 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	23579.51	7721.08	----------	----------	1
2	5.0000	53531.69	17024.46	----------	----------	1
3	10.0000	104345.50	34357.86	----------	----------	1
4	20.0000	206603.50	65383.38	----------	----------	1
5	25.0000	259158.70	82483.88	----------	----------	1
6	50.0000	522912.19	172413.66	----------	----------	1
7	100.0000	1042473.30	338838.64	----------	----------	1

Average Calibration Factor = 10644.305719 (%RSD = 4.88)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 13.970 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	22321.68	7550.55	----------	----------	1
2	5.0000	49247.60	16361.23	----------	----------	1
3	10.0000	96910.63	32637.79	----------	----------	1
4	20.0000	192248.00	61870.45	----------	----------	1
5	25.0000	237601.13	78324.09	----------	----------	1
6	50.0000	482115.81	163420.54	----------	----------	1
7	100.0000	944284.00	312994.39	----------	----------	1

Average Calibration Factor = 9843.289285 (%RSD = 6.05)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 14.448 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	22670.12	7446.42	----------	----------	1
2	5.0000	50478.65	16832.66	----------	----------	1
3	10.0000	98428.00	31770.32	----------	----------	1
4	20.0000	196673.19	66319.37	----------	----------	1
5	25.0000	241092.00	81758.56	----------	----------	1
6	50.0000	497259.79	168444.86	----------	----------	1
7	100.0000	993618.00	348515.96	----------	----------	1

Average Calibration Factor = 10090.329725 (%RSD = 5.61)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 14.821 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	22013.00	7425.32	----------	----------	1
2	5.0000	48235.44	16009.47	----------	----------	1
3	10.0000	93368.50	31934.68	----------	----------	1
4	20.0000	188697.41	60992.59	----------	----------	1
5	25.0000	227636.00	75987.29	----------	----------	1
6	50.0000	468265.50	161362.48	----------	----------	1
7	100.0000	926931.50	312228.42	----------	----------	1

Average Calibration Factor = 9595.053345 (%RSD = 6.71)

Endosulfan I

Component Type : Single Peak Component
Retention Time : 14.950 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	20934.88	7032.36	----------	----------	1
2	5.0000	45787.90	15446.34	----------	----------	1
3	10.0000	88507.00	29712.78	----------	----------	1
4	20.0000	177455.86	58903.93	----------	----------	1
5	25.0000	213696.00	72244.87	----------	----------	1
6	50.0000	433566.00	149081.01	----------	----------	1
7	100.0000	843534.00	289712.65	----------	----------	1

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Average Calibration Factor = 9000.430559 (%RSD = 7.65)

4,4'-DDE

Component Type : Single Peak Component
Retention Time : 15.281 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	42422.44	14425.63	----------	----------	1
2	10.0000	94697.04	32704.37	----------	----------	1
3	20.0000	188836.93	63308.50	----------	----------	1
4	40.0000	395976.47	139257.66	----------	----------	1
5	50.0000	488028.19	172732.47	----------	----------	1
6	100.0000	1043606.63	369102.68	----------	----------	1
7	200.0000	2080002.43	749603.66	----------	----------	1

Average Calibration Factor = 10001.887806 (%RSD = 4.79)

Dieldrin

Component Type : Single Peak Component
Retention Time : 15.639 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	42836.00	14426.70	----------	----------	1
2	10.0000	95718.00	31304.16	----------	----------	1
3	20.0000	189313.06	63892.30	----------	----------	1
4	40.0000	391660.00	128197.57	----------	----------	1
5	50.0000	483551.95	160248.72	----------	----------	1
6	100.0000	1019801.04	346114.80	----------	----------	1
7	200.0000	2010434.01	659549.15	----------	----------	1

Average Calibration Factor = 9922.738893 (%RSD = 4.36)

Endrin

Component Type : Single Peak Component
Retention Time : 16.392 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	31685.00	10258.72	----------	----------	1
2	10.0000	70028.03	22159.76	----------	----------	1
3	20.0000	137583.07	44755.98	----------	----------	1
4	40.0000	275603.10	90261.80	----------	----------	1
5	50.0000	356646.62	114620.08	----------	----------	1
6	100.0000	698567.33	227345.73	----------	----------	1
7	200.0000	1355783.98	453147.75	----------	----------	1

Average Calibration Factor = 7084.401417 (%RSD = 5.44)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 16.712 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	35796.00	12181.78	----------	----------	1
2	10.0000	84029.26	28257.69	----------	----------	1
3	20.0000	161045.52	53540.07	----------	----------	1
4	40.0000	326961.50	114018.09	----------	----------	1
5	50.0000	394261.26	135654.43	----------	----------	1
6	100.0000	841076.28	288865.14	----------	----------	1
7	200.0000	1665307.29	594652.69	----------	----------	1

Average Calibration Factor = 8314.394818 (%RSD = 4.09)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 16.915 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	38110.50	12691.48	----------	----------	1
2	10.0000	84970.12	28126.79	----------	----------	1
3	20.0000	165157.37	53628.98	----------	----------	1
4	40.0000	336124.05	113287.16	----------	----------	1
5	50.0000	412313.64	139661.55	----------	----------	1
6	100.0000	860922.55	291754.72	----------	----------	1
7	200.0000	1702689.21	586877.19	----------	----------	1

Average Calibration Factor = 8579.221549 (%RSD = 5.12)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 17.484 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	26646.36	9187.79	----------	----------	1
2	10.0000	59480.10	20446.61	----------	----------	1
3	20.0000	125924.78	43048.28	----------	----------	1
4	40.0000	274221.21	93534.81	----------	----------	1
5	50.0000	356729.58	123662.64	----------	----------	1
6	100.0000	717409.55	252076.57	----------	----------	1
7	200.0000	1485195.96	524582.96	----------	----------	1

Average Calibration Factor = 6785.148204 (%RSD = 7.71)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 17.754 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	33065.91	10975.59	----------	----------	1
2	10.0000	68280.63	22129.75	----------	----------	1
3	20.0000	132086.12	44114.51	----------	----------	1
4	40.0000	260934.56	84282.11	----------	----------	1
5	50.0000	314179.20	102467.73	----------	----------	1
6	100.0000	662101.36	223416.61	----------	----------	1
7	200.0000	1323287.19	434900.24	----------	----------	1

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Average Calibration Factor = 6820.463406 (%RSD = 9.64)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 18.434 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	35397.64	11845.24	----------	----------	1
2	10.0000	73913.00	24751.67	----------	----------	1
3	20.0000	143073.97	47604.09	----------	----------	1
4	40.0000	286352.98	94935.28	----------	----------	1
5	50.0000	352347.04	118001.78	----------	----------	1
6	100.0000	733679.77	252185.09	----------	----------	1
7	200.0000	1538554.96	532746.06	----------	----------	1

Average Calibration Factor = 7518.535230 (%RSD = 8.30)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 19.201 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	56438.08	19613.79	----------	----------	1
2	50.0000	126564.86	43894.41	----------	----------	1
3	100.0000	269945.53	93684.96	----------	----------	1
4	200.0000	604490.94	209850.00	----------	----------	1
5	250.0000	783463.54	275043.71	----------	----------	1
6	500.0000	1491773.42	532180.98	----------	----------	1
7	1000.0000	2632229.79	893803.73	----------	----------	1

Average Calibration Factor = 2832.105991 (%RSD = 7.87)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 19.742 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	44953.84	14133.33	----------	----------	1
2	10.0000	91536.54	28621.17	----------	----------	1
3	20.0000	178672.00	58248.84	----------	----------	1
4	40.0000	362496.49	118535.42	----------	----------	1
5	50.0000	440401.21	141526.08	----------	----------	1
6	100.0000	914402.00	298186.39	----------	----------	1
7	200.0000	1770709.39	580837.26	----------	----------	1

Average Calibration Factor = 9313.388183 (%RSD = 9.23)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.986 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	20837.05	8442.01	----------	----------	1
2	10.0000	46267.26	18792.54	----------	----------	1
3	20.0000	98031.34	39685.91	----------	----------	1
4	40.0000	205789.57	81406.49	----------	----------	1
5	50.0000	265264.44	106674.00	----------	----------	1
6	100.0000	477099.03	192029.48	----------	----------	1
7	200.0000	1028192.91	418742.28	----------	----------	1

Average Calibration Factor = 5014.219680 (%RSD = 5.00)

Calibration Replicate Lists
Component : TCMX
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85479.00	20680.80	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
166700.50	43119.89	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
322130.50	78313.66	40.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
424432.50	103878.32	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
844312.50	213195.02	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1702623.50	437642.10	200.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36615.00	9073.09	4.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28470.00	7949.93	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65460.00	18589.65	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127312.61	37185.32	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
247353.84	70602.28	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
323472.00	90588.82	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
648097.00	186725.66	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1329969.00	398238.75	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : gamma-BHC
Level : 1

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
25313.50	7610.14	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57729.00	17560.57	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112476.00	34015.79	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220263.00	67655.21	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
285373.31	86619.40	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
571934.33	177322.14	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1165317.50	373121.70	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : beta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
11243.00	3570.09	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
24913.00	7958.49	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48510.22	15592.57	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94154.00	29530.86	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119287.00	37559.64	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
227894.00	72733.34	50.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
436766.50	140976.61	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : delta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
28870.66	9476.94	2.0000	---------	---------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
60527.67	19806.71	5.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
115243.50	37891.55	10.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
226909.50	73212.76	20.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
287695.00	94109.65	25.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
587958.50	198054.26	50.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1198765.00	404411.41	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Heptachlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
21031.00	6793.83	2.0000	---------	---------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47486.75	15319.49	5.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94313.00	30301.31	10.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
185394.00	59603.14	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
245554.00	79020.90	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
473257.00	155573.73	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
951347.83	315469.53	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
23579.51	7721.08	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
53531.69	17024.46	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
104345.50	34357.86	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
206603.50	65383.38	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
259158.70	82483.88	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
522912.19	172413.66	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1042473.30	338838.64	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22321.68	7550.55	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
49247.60	16361.23	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
96910.63	32637.79	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
192248.00	61870.45	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
237601.13	78324.09	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
482115.81	163420.54	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
944284.00	312994.39	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22670.12	7446.42	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50478.65	16832.66	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98428.00	31770.32	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
196673.19	66319.37	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
241092.00	81758.56	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
497259.79	168444.86	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
993618.00	348515.96	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : alpha-Chlordane

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
22013.00	7425.32	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48235.44	16009.47	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93368.50	31934.68	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188697.41	60992.59	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
227636.00	75987.29	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
468265.50	161362.48	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
926931.50	312228.42	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Endosulfan I

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20934.88	7032.36	2.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45787.90	15446.34	5.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
88507.00	29712.78	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
177455.86	58903.93	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
213696.00	72244.87	25.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
433566.00	149081.01	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
843534.00	289712.65	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42422.44	14425.63	4.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
94697.04	32704.37	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
188836.93	63308.50	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
395976.47	139257.66	40.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
488028.19	172732.47	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1043606.63	369102.68	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2080002.43	749603.66	200.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42836.00	14426.70	4.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
95718.00	31304.16	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
189313.06	63892.30	20.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
391660.00	128197.57	40.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
483551.95	160248.72	50.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1019801.04	346114.80	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2010434.01	659549.15	200.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31685.00	10258.72	4.0000	---------	---------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70028.03	22159.76	10.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137583.07	44755.98	20.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
275603.10	90261.80	40.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
356646.62	114620.08	50.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
698567.33	227345.73	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1355783.98	453147.75	200.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : 4,4'-DDD
Level : 1

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35796.00	12181.78	4.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84029.26	28257.69	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
161045.52	53540.07	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
326961.50	114018.09	40.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
394261.26	135654.43	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
841076.28	288865.14	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1665307.29	594652.69	200.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38110.50	12691.48	4.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84970.12	28126.79	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
165157.37	53628.98	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
336124.05	113287.16	40.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
412313.64	139661.55	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
860922.55	291754.72	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1702689.21	586877.19	200.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26646.36	9187.79	4.0000	---------	---------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
59480.10	20446.61	10.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
125924.78	43048.28	20.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
274221.21	93534.81	40.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
356729.58	123662.64	50.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
717409.55	252076.57	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1485195.96	524582.96	200.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33065.91	10975.59	4.0000	---------	---------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
68280.63	22129.75	10.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
132086.12	44114.51	20.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
260934.56	84282.11	40.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
314179.20	102467.73	50.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
662101.36	223416.61	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1323287.19	434900.24	200.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35397.64	11845.24	4.0000	---------	---------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73913.00	24751.67	10.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
143073.97	47604.09	20.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
286352.98	94935.28	40.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
352347.04	118001.78	50.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
733679.77	252185.09	100.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1538554.96	532746.06	200.0000	---------	---------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56438.08	19613.79	20.0000	---------	---------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
126564.86	43894.41	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
269945.53	93684.96	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
604490.94	209850.00	200.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
783463.54	275043.71	250.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1491773.42	532180.98	500.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2632229.79	893803.73	1000.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Endrin ketone

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44953.84	14133.33	4.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
91536.54	28621.17	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
178672.00	58248.84	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
362496.49	118535.42	40.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
440401.21	141526.08	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
914402.00	298186.39	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

12/1/04 1:41:48 PM Method: G:\gc21\files\8081b335.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1770709.39	580837.26	200.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

Component : Decachlorobiphenyl

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20837.05	8442.01	4.0000	----------	----------	12/1/04	1:41:11 PM	G:\gc21\CHB\335b007p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46267.26	18792.54	10.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b008p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
98031.34	39685.91	20.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b009p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205789.57	81406.49	40.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b010p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
265264.44	106674.00	50.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b011p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
477099.03	192029.48	100.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b012p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1028192.91	418742.28	200.0000	----------	----------	12/1/04	1:41:12 PM	G:\gc21\CHB\335b013p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: /mcs 12/1/04
Calnum: 244483653001 Name: Type: (normal) Date: 30-NOV-2004 20:53 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	335_007	244483653007	pest_1	30-NOV-2004 20:53	04WS1628
2	335_008	244483653008	pest_2	30-NOV-2004 21:22	04WS1629
3	335_009	244483653009	pest_3	30-NOV-2004 21:51	04WS2051
4	335_010	244483653010	pest_4	30-NOV-2004 22:20	04WS2052
5	335_011	244483653011	pest_5	30-NOV-2004 22:49	04WS2053
6	335_012	244483653012	pest_6	30-NOV-2004 23:18	04WS1634
7	335_013	244483653013	pest_7	30-NOV-2004 23:47	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	13800	12367	11689	11726	11968	12679	12961	AVRG	R		8.028E-5		pg	12456	6	0.995	20	
gamma-BHC	A	12912	11271	10633	10543	10775	11282	11414	AVRG	R		8.880E-5		pg	11262	7	0.995	20	
beta-BHC	A	6548.0	5122.3	4725.1	4569.2	4642.9	4571.0	4259.8	AVRG	R		2.033E-4		pg	4919.8	15	0.995	20	
delta-BHC	A	16090	11642	10772	10532	10879	11389	11554	AVRG	R		8.448E-5		pg	11837	16	0.995	20	
Heptachlor	A	11350	10040	9759.9	9622.9	10034	10343	10367	AVRG	R		9.788E-5		pg	10217	6	0.995	20	
Aldrin	A	12018	10659	10138	9895.4	10226	10615	10586	AVRG	R		9.442E-5		pg	10591	7	0.995	20	
Heptachlor epoxide	A	12014	9895.6	9478.7	9143.2	9449.2	9655.9	9410.9	AVRG	R		1.014E-4		pg	9863.9	10	0.995	20	
gamma-Chlordane	A	11932	9886.9	9475.7	9176.5	9491.2	9843.8	9846.9	AVRG	R		1.005E-4		pg	9950.5	9	0.995	20	
alpha-Chlordane	A	11784	9599.6	9175.9	8811.3	9127.1	9382.7	9347.1	AVRG	R		1.041E-4		pg	9603.9	10	0.995	20	
4,4'-DDE	A	11192	9472.6	9022.3	8823.7	9310.0	10068	10502	AVRG	R		1.024E-4		pg	9770.1	9	0.995	20	
Endosulfan I	A	11553	9241.4	8616.4	8246.6	8506.1	8630.0	8363.2	AVRG	R		1.108E-4		pg	9022.3	13	0.995	20	
Dieldrin	A	11523	9876.3	9487.0	9286.6	9753.3	10423	10482	AVRG	R		9.883E-5		pg	10119	8	0.995	20	
Endrin	A	9511.1	7495.5	7360.9	7092.0	7432.6	7676.2	7700.6	AVRG	R		1.290E-4		pg	7752.7	10	0.995	20	
4,4'-DDD	A	9924.4	8034.6	7548.3	7267.0	7554.8	8060.1	8262.0	AVRG	R		1.236E-4		pg	8093.0	11	0.995	20	
Endosulfan II	A	11225	8243.7	7717.5	7320.8	7676.0	7974.7	8077.4	AVRG	R		1.202E-4		pg	8319.3	16	0.995	20	
4,4'-DDT	A	7851.3	6027.2	6308.3	6145.8	6736.7	7062.0	7592.5	AVRG	R		1.467E-4		pg	6817.7	10	0.995	20	
Endrin aldehyde	A	9408.0	6871.2	6314.4	5873.4	6121.7	6280.6	6299.9	AVRG	R		1.484E-4		pg	6738.4	18	0.995	20	
Methoxychlor	A	3313.6	2771.5	2869.5	2786.8	3068.3	3164.9	2830.2	AVRG	R		3.365E-4		pg	2972.1	7	0.995	20	
Endosulfan sulfate	A	9419.1	7129.3	6658.9	6285.8	6554.0	6756.0	7129.8	AVRG	R		1.402E-4		pg	7133.3	15	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By:
Calnum: 244483653001 Name: Type: (normal) Date: 30-NOV-2004 20:53 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	10375	8078.3	7507.1	7080.0	7454.0	7765.7	7809.6	AVRG	R		1.248E-4		pg	8009.9	14	0.995	20	
TCMX	A	8610.0	7981.7	7380.8	7318.5	7340.8	7644.1	7636.5	AVRG	R		1.298E-4		pg	7701.8	6	0.995	20	
Decachlorobiphenyl	A	5671.5	4948.1	5139.2	4781.0	5213.2	5237.9	6035.5	AVRG	R		1.891E-4		pg	5289.5	8	0.995	20	
alpha-BHC	B	14235	13092	12731	12368	12939	12962	13300	AVRG	R		7.640E-5		pg	13089	4	0.995	20	
gamma-BHC	B	12657	11546	11248	11013	11415	11439	11653	AVRG	R		8.645E-5		pg	11567	5	0.995	20	
beta-BHC	B	5621.5	4982.6	4851.0	4707.7	4771.5	4557.9	4367.7	AVRG	R		2.067E-4		pg	4837.1	8	0.995	20	
delta-BHC	B	14435	12106	11524	11345	11508	11759	11988	AVRG	R		8.268E-5		pg	12095	9	0.995	20	
Heptachlor	B	10516	9497.4	9431.3	9269.7	9822.2	9465.1	9513.5	AVRG	R		1.037E-4		pg	9644.9	4	0.995	20	
Aldrin	B	11790	10706	10435	10330	10366	10458	10425	AVRG	R		9.395E-5		pg	10644	5	0.995	20	
Heptachlor epoxide	B	11161	9849.5	9691.1	9612.4	9504.0	9642.3	9442.8	AVRG	R		1.016E-4		pg	9843.3	6	0.995	20	
gamma-Chlordane	B	11335	10096	9842.8	9833.7	9643.7	9945.2	9936.2	AVRG	R		9.910E-5		pg	10090	6	0.995	20	
alpha-Chlordane	B	11007	9647.1	9336.9	9434.9	9105.4	9365.3	9269.3	AVRG	R		1.042E-4		pg	9595.1	7	0.995	20	
4,4'-DDE	B	10606	9469.7	9441.8	9899.4	9760.6	10436	10400	AVRG	R		9.998E-5		pg	10002	5	0.995	20	
Endosulfan I	B	10467	9157.6	8850.7	8872.8	8547.8	8671.3	8435.3	AVRG	R		1.111E-4		pg	9000.4	8	0.995	20	
Dieldrin	B	10709	9571.8	9465.7	9791.5	9671.0	10198	10052	AVRG	R		1.008E-4		pg	9922.7	4	0.995	20	
Endrin	B	7921.3	7002.8	6879.2	6890.1	7132.9	6985.7	6778.9	AVRG	R		1.412E-4		pg	7084.4	5	0.995	20	
4,4'-DDD	B	8949.0	8402.9	8052.3	8174.0	7885.2	8410.8	8326.5	AVRG	R		1.203E-4		pg	8314.4	4	0.995	20	
Endosulfan II	B	9527.6	8497.0	8257.9	8403.1	8246.3	8609.2	8513.4	AVRG	R		1.166E-4		pg	8579.2	5	0.995	20	
4,4'-DDT	B	6661.6	5948.0	6296.2	6855.5	7134.6	7174.1	7426.0	AVRG	R		1.474E-4		pg	6785.1	8	0.995	20	
Endrin aldehyde	B	8266.5	6828.1	6604.3	6523.4	6283.6	6621.0	6616.4	AVRG	R		1.466E-4		pg	6820.5	10	0.995	20	
Methoxychlor	B	2821.9	2531.3	2699.5	3022.5	3133.9	2983.5	2632.2	AVRG	R		3.531E-4		pg	2832.1	8	0.995	20	
Endosulfan sulfate	B	8849.4	7391.3	7153.7	7158.8	7046.9	7336.8	7692.8	AVRG	R		1.330E-4		pg	7518.5	8	0.995	20	
Endrin ketone	B	11238	9153.7	8933.6	9062.4	8808.0	9144.0	8853.5	AVRG	R		1.074E-4		pg	9313.4	9	0.995	20	
TCMX	B	9153.8	8547.9	8335.0	8053.3	8488.7	8443.1	8513.1	AVRG	R		1.176E-4		pg	8505.0	4	0.995	20	
Decachlorobiphenyl	B	5209.3	4626.7	4901.6	5144.7	5305.3	4771.0	5141.0	AVRG	R		1.994E-4		pg	5014.2	5	0.995	20	

Method	Ch	Count	Avg %RSD	Limit	Flags
EPA 8081A	A	22	10	20	
EPA 8081A	B	22	6	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 12/1/04 12:35:06 PM
Data Acquisition Time : 11/30/04 8:53:07 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a007p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.519	34440.01	4.4320	1.000	1	4.43
alpha-BHC	10.173	27599.74	2.2621	1.000	1	2.26
gamma-BHC	11.084	25824.55	2.3425	1.000	1	2.34
beta-BHC	11.338	13096.00	2.7615	1.000	1	2.76
delta-BHC	11.835	32179.02	2.9561	1.000	1	2.96
Heptachlor	12.403	22699.00	2.1509	1.000	1	2.15
Aldrin	13.220	24035.24	2.2840	1.000	1	2.28
Heptachlor epoxide	14.837	24027.78	2.5020	1.000	1	2.50
gamma-Chlordane	15.154	23864.27	2.4503	1.000	1	2.45
alpha-Chlordane	15.498	23567.74	2.5162	1.000	1	2.52
4,4'-DDE	15.685	44766.04	4.7361	1.000	1	4.74
Endosulfan I	15.856	23105.25	2.6681	1.000	1	2.67
Dieldrin	16.468	46092.68	4.7233	1.000	1	4.72
Endrin	17.056	38044.49	5.2414	1.000	1	5.24
4,4'-DDD	17.203	39697.55	5.3214	1.000	1	5.32
Endosulfan II	17.628	44899.91	5.9399	1.000	1	5.94
4,4'-DDT	17.900	31405.18	4.3454	1.000	1	4.35
Endrin aldehyde	18.685	37631.90	5.9577	1.000	1	5.96
Methoxychlor	19.094	66272.13	21.7096	1.000	1	21.71
Endosulfan sulfate	19.781	37676.50	5.6814	1.000	1	5.68
Endrin ketone	20.429	41499.00	5.7088	1.000	1	5.71
Decachlorobiphenyl	22.099	22685.85	4.4019	1.000	1	4.40
		725109.82	103.0927			103.09

CAP
12/1/04

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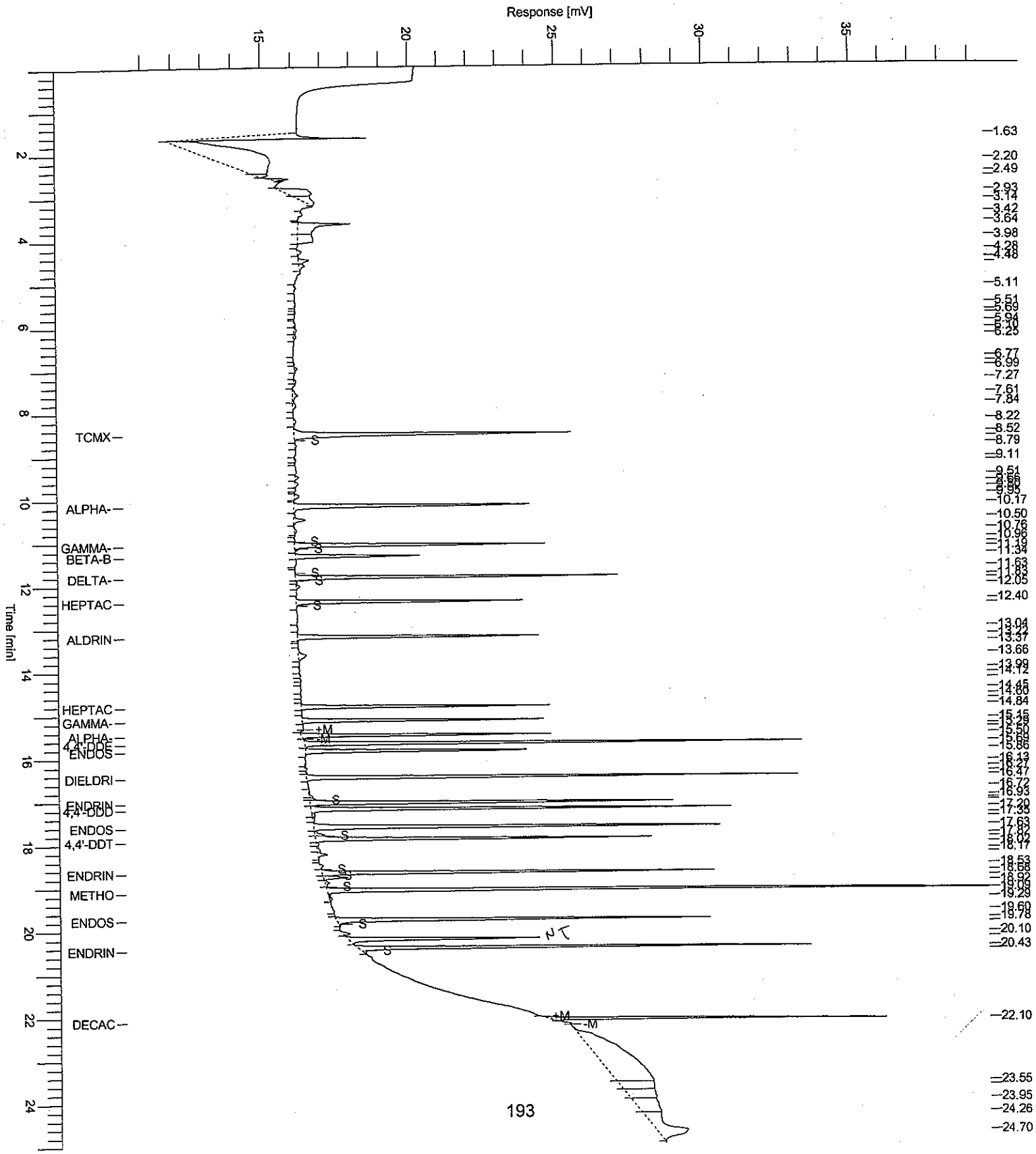
Report stored in ASCII file: G:\gc21\CHA\335a007p.TX0

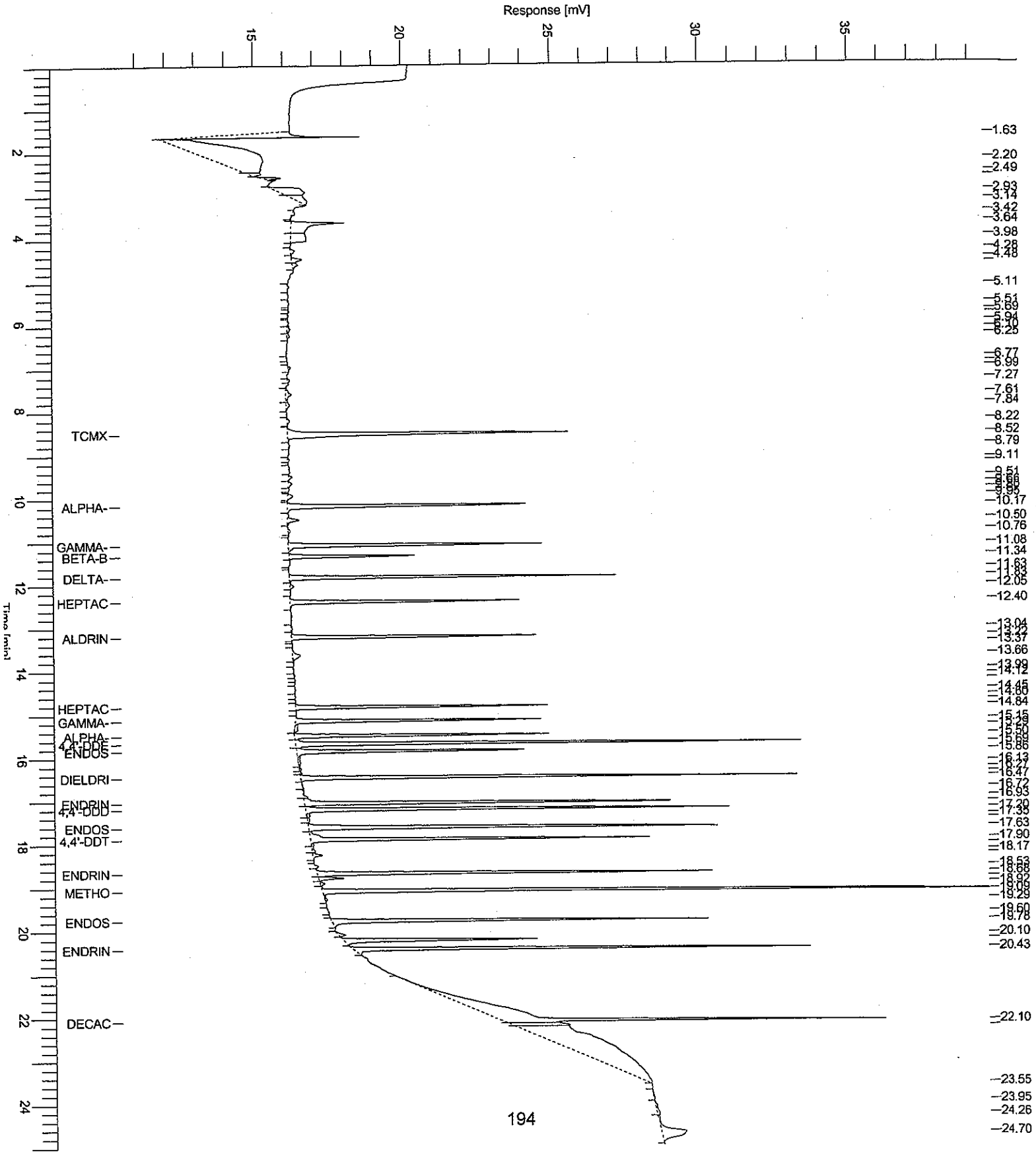
GC21 Rtx-CLPesticides

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc21\CHA\335a007.raw
Date : 12/1/04 12:35:12 PM
Method :
Time of Injection: 11/30/04 8:53:07 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.36 mV High Point : 39.53 mV
Plot Offset: 10.36 mV Plot Scale: 29.2 mV



GC21 Rtx-CLPesticides

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc21\CHA\335a007.raw
Date : 12/1/04 12:03:10 PM
Method : gc21ins Time of Injection: 11/30/04 8:53:07 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.43 mV High Point : 39.53 mV
Scale Factor: 1.0 Plot Offset: 10.43 mV Plot Scale: 29.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 12/1/04 1:18:50 PM
Data Acquisition Time : 11/30/04 8:53:07 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b007p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.821	36615.00	4.9730	1.000	1	4.97
alpha-BHC	9.508	28470.00	2.4815	1.000	1	2.48
gamma-BHC	10.479	25313.50	2.5290	1.000	1	2.53
beta-BHC	10.700	11243.00	2.8141	1.000	1	2.81
delta-BHC	11.483	28870.66	2.8856	1.000	1	2.89
Heptachlor	11.649	21031.00	2.4380	1.000	1	2.44
Aldrin	12.487	23579.51	2.6730	1.000	1	2.67
Heptachlor epoxide	13.968	22321.68	2.8159	1.000	1	2.82
gamma-Chlordane	14.447	22670.12	2.8468	1.000	1	2.85
alpha-Chlordane	14.819	22013.00	2.9197	1.000	1	2.92
Endosulfan I	14.949	20934.88	2.9296	1.000	1	2.93
4,4'-DDE	15.280	42422.44	5.4926	1.000	1	5.49
Dieldrin	15.636	42836.00	5.4965	1.000	1	5.50
Endrin	16.388	31685.00	5.6890	1.000	1	5.69
4,4'-DDD	16.711	35796.00	5.6435	1.000	1	5.64
Endosulfan II	16.913	38110.50	5.6953	1.000	1	5.70
4,4'-DDT	17.482	26646.36	4.5273	1.000	1	4.53
Endrin aldehyde	17.752	33065.91	6.2606	1.000	1	6.26
Endosulfan sulfate	18.433	35397.64	6.0965	1.000	1	6.10
Methoxychlor	19.199	56438.08	23.6752	1.000	1	23.68
Endrin ketone	19.737	44953.84	6.0965	1.000	1	6.10
Decachlorobiphenyl	21.985	20837.05	5.1437	1.000	1	5.14
		671251.17	112.1231			112.12

GP
12/1/04

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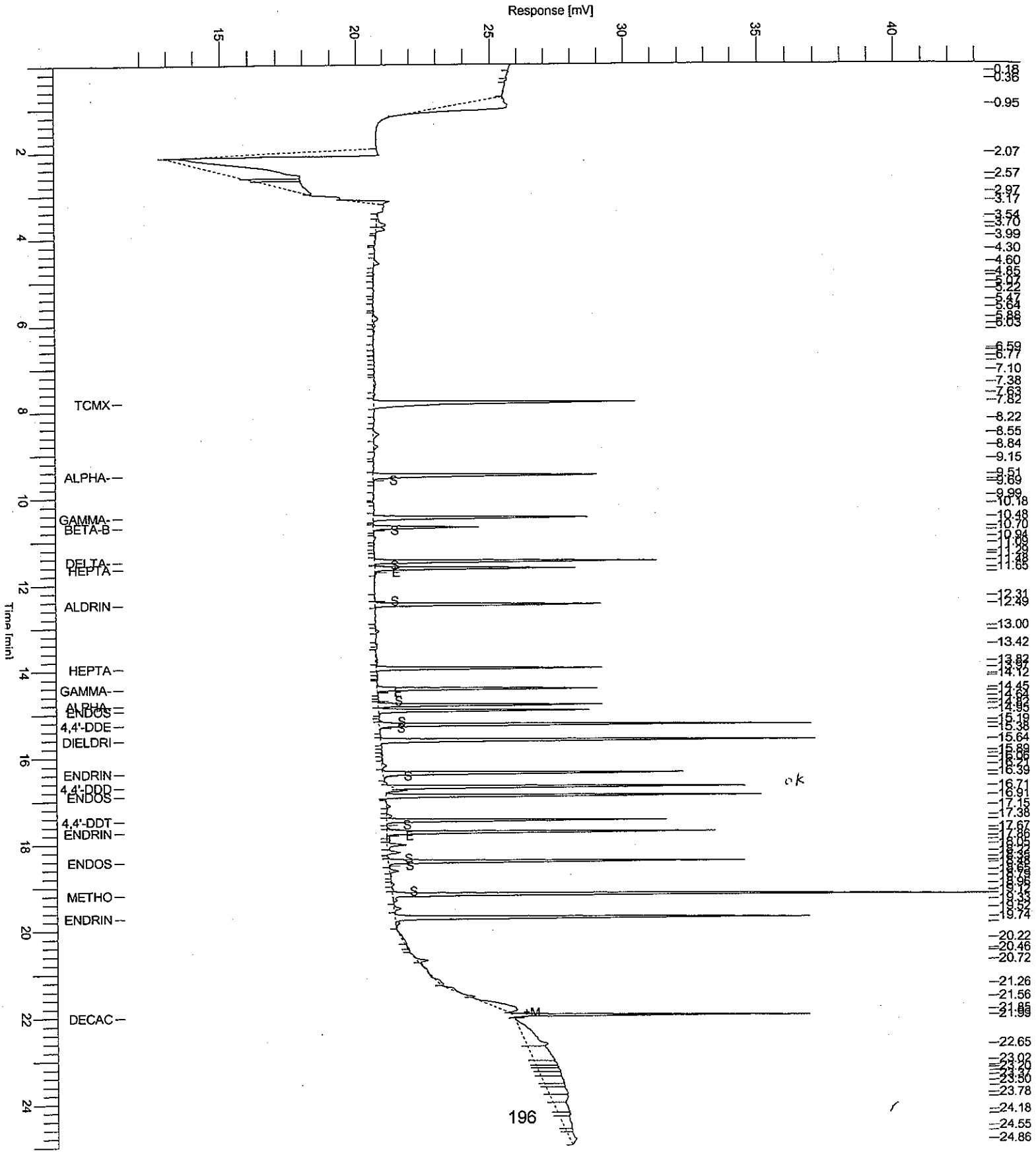
Report stored in ASCII file: G:\gc21\CHB\335b007p.TX0

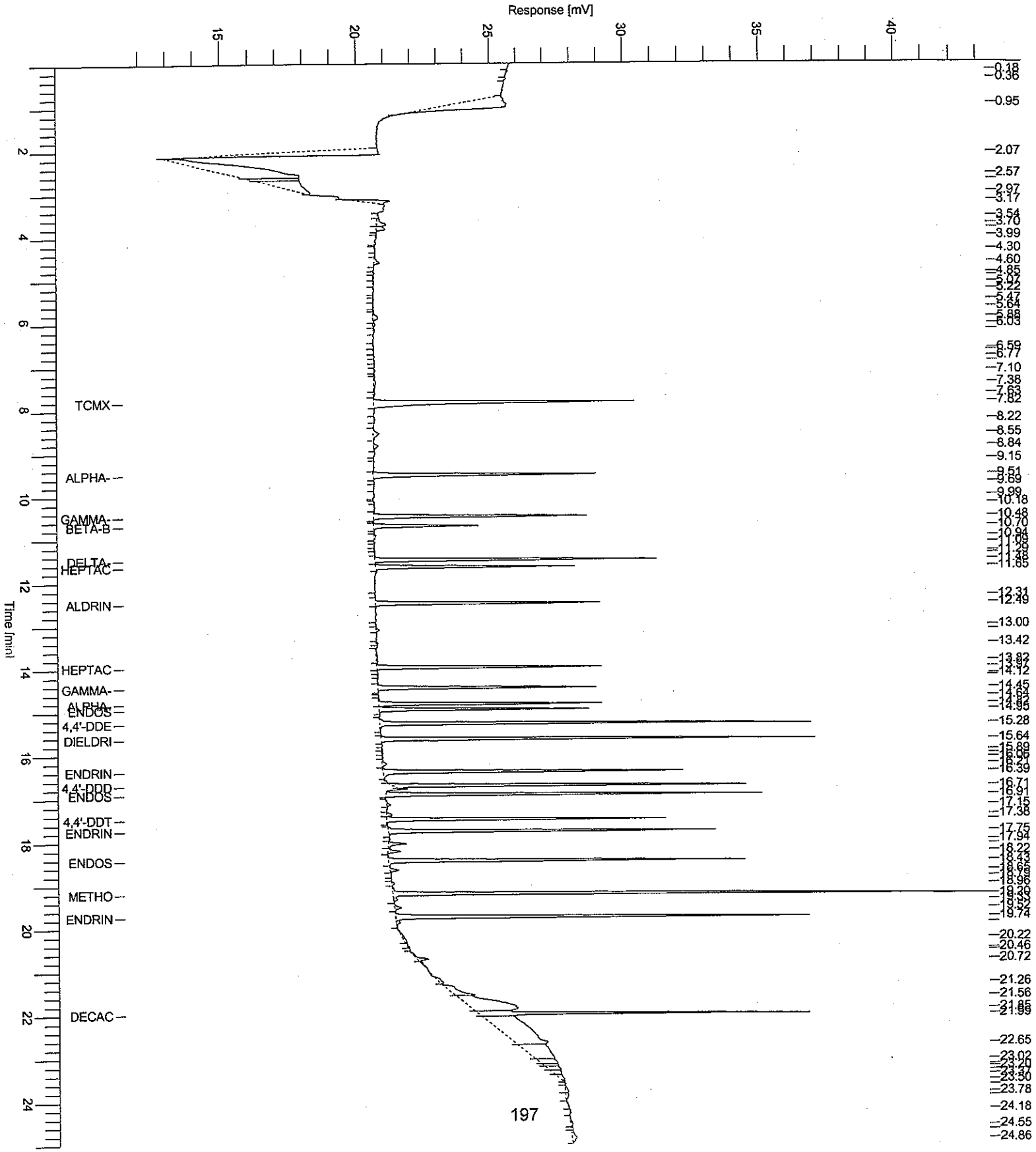
GC21 Rtx-CLPesticides2

ample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
ileName : G:\gc21\CHb\335b007.raw
ate : 12/1/04 1:19:20 PM
ethod :
Time of Injection: 11/30/04 8:53:07 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 11.31 mV High Point : 43.37 mV
lot Offset: 11.31 mV Plot Scale: 32.1 mV



GC21 Rtx-CLPesticides2

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc21\CHb\335b007
Date : 12/1/04 12:03:45 PM
Method : gc21ins Time of Injection: 11/30/04 8:53:07 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 11.39 mV High Point : 43.37 mV
Scale Factor: 1.0 Plot Offset: 11.39 mV Plot Scale: 32.0 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 12/1/04 12:38:00 PM
Data Acquisition Time : 11/30/04 9:22:14 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a008p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.519	79817.00	10.2715	1.000	1	10.27
alpha-BHC	10.174	61834.00	5.0679	1.000	1	5.07
gamma-BHC	11.085	56354.33	5.1119	1.000	1	5.11
beta-BHC	11.338	25611.70	5.4007	1.000	1	5.40
delta-BHC	11.835	58212.00	5.3476	1.000	1	5.35
Heptachlor	12.405	50200.00	4.7569	1.000	1	4.76
Aldrin	13.221	53296.29	5.0646	1.000	1	5.06
Heptachlor epoxide	14.839	49478.00	5.1520	1.000	1	5.15
gamma-Chlordane	15.156	49434.36	5.0757	1.000	1	5.08
alpha-Chlordane	15.500	47998.00	5.1245	1.000	1	5.12
4,4'-DDE	15.687	94726.20	10.0217	1.000	1	10.02
Endosulfan I	15.862	46207.11	5.3359	1.000	1	5.34
Dieldrin	16.469	98763.38	10.1207	1.000	1	10.12
Endrin	17.063	74955.00	10.3266	1.000	1	10.33
4,4'-DDD	17.211	80345.70	10.7703	1.000	1	10.77
Endosulfan II	17.631	82436.58	10.9058	1.000	1	10.91
4,4'-DDT	17.902	60271.83	8.3396	1.000	1	8.34
Endrin aldehyde	18.687	68712.09	10.8782	1.000	1	10.88
Methoxychlor	19.097	138576.89	45.3954	1.000	1	45.40
Endosulfan sulfate	19.782	71293.00	10.7505	1.000	1	10.75
Endrin ketone	20.430	80783.00	11.1129	1.000	1	11.11
Decachlorobiphenyl	22.099	49480.98	9.6011	1.000	1	9.60
		1478787.42	209.9319			209.93

GP 12/1/04

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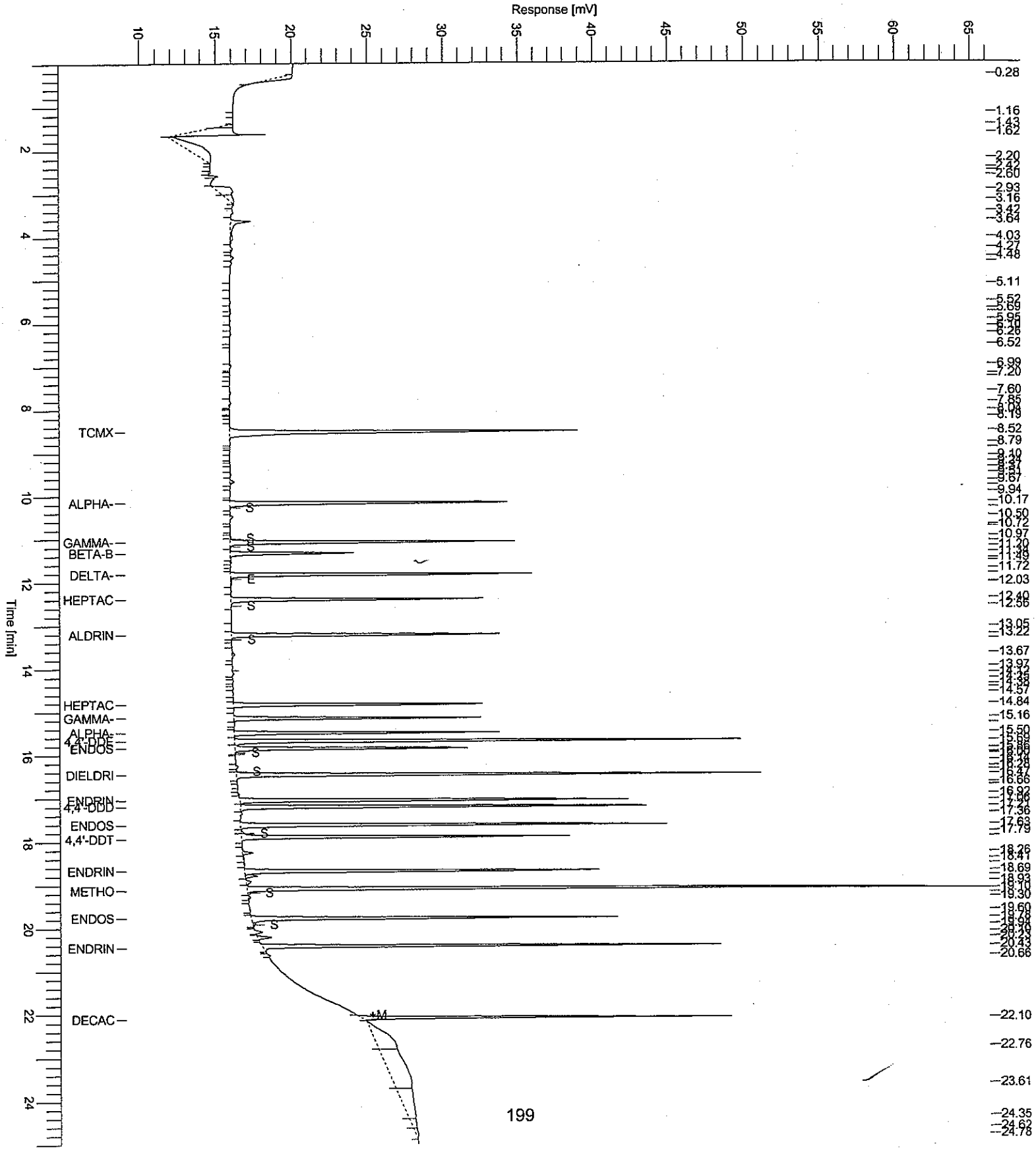
Report stored in ASCII file: G:\gc21\CHA\335a008p.TX0

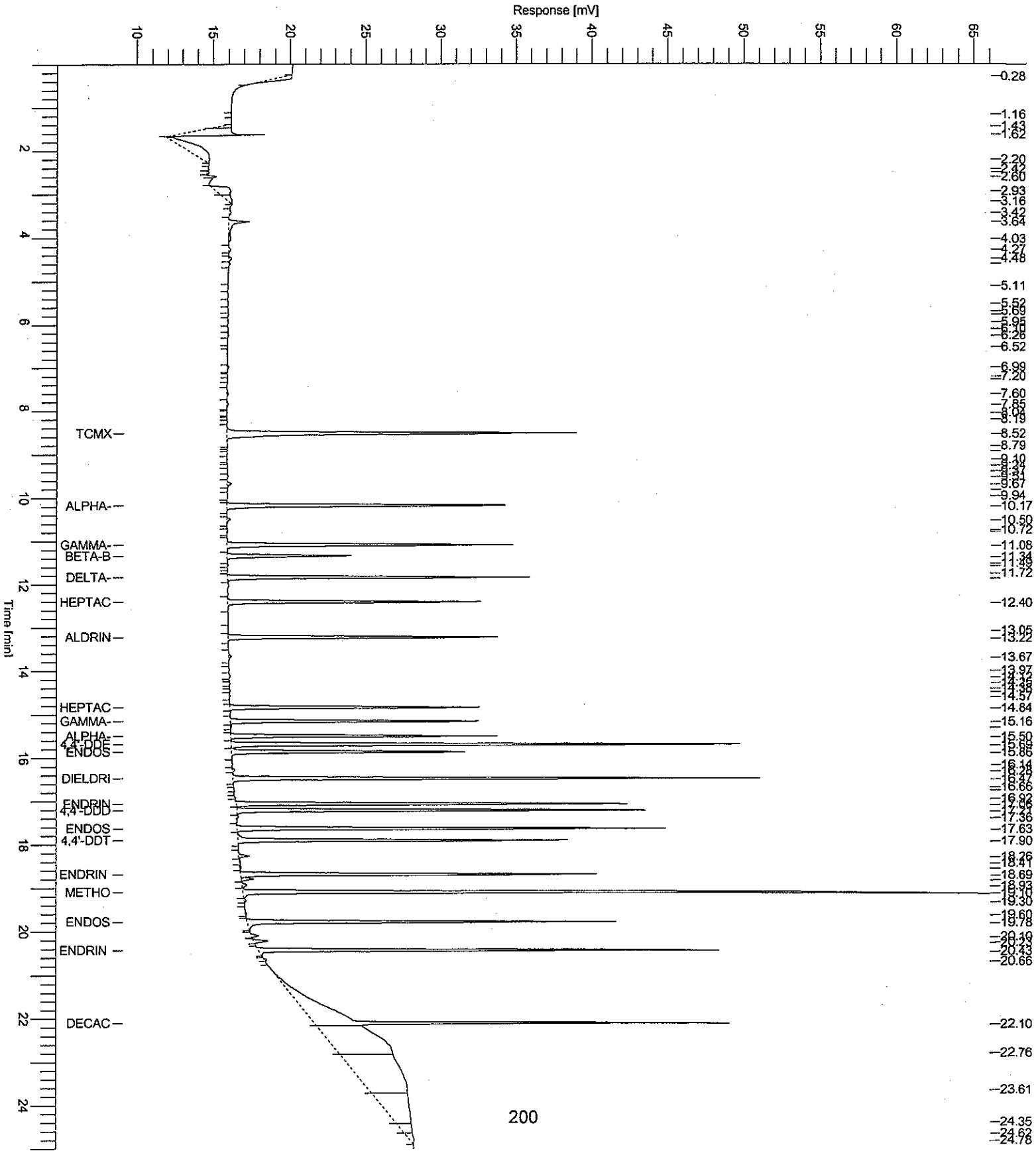
GC21 Rtx-CLPesticides

Sample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
FileName : G:\gc21\CHA\335a008.raw
Date : 12/1/04 12:38:06 PM
Method :
Time of Injection: 11/30/04 9:22:14 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 9.01 mV High Point : 66.09 mV
Plot Offset: 9.01 mV Plot Scale: 57.1 mV



GC21 Rtx-CLPesticides

Sample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
FileName : G:\gc21\CHA\335a008.raw
Date : 12/1/04 12:03:15 PM
Method : gc21ins Time of Injection: 11/30/04 9:22:14 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 9.15 mV High Point : 66.09 mV
Scale Factor: 1.0 Plot Offset: 9.15 mV Plot Scale: 56.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 12/1/04 1:27:20 PM
Data Acquisition Time : 11/30/04 9:22:14 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b008p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.822	85479.00	11.6095	1.000	1	11.61
alpha-BHC	9.514	65460.00	5.7056	1.000	1	5.71
gamma-BHC	10.481	57729.00	5.7675	1.000	1	5.77
beta-BHC	10.701	24913.00	6.2357	1.000	1	6.24
delta-BHC	11.485	60527.67	6.0498	1.000	1	6.05
Heptachlor	11.650	47486.75	5.5049	1.000	1	5.50
Aldrin	12.488	53531.69	6.0685	1.000	1	6.07
Heptachlor epoxide	13.970	49247.60	6.2127	1.000	1	6.21
gamma-Chlordane	14.448	50478.65	6.3388	1.000	1	6.34
alpha-Chlordane	14.820	48235.44	6.3978	1.000	1	6.40
Endosulfan I	14.951	45787.90	6.4075	1.000	1	6.41
4,4'-DDE	15.282	94697.04	12.2608	1.000	1	12.26
Dieldrin	15.638	95718.00	12.2821	1.000	1	12.28
Endrin	16.394	70028.03	12.5734	1.000	1	12.57
4,4'-DDD	16.714	84029.26	13.2479	1.000	1	13.25
Endosulfan II	16.915	84970.12	12.6981	1.000	1	12.70
4,4'-DDT	17.484	59480.10	10.1059	1.000	1	10.11
Endrin aldehyde	17.754	68280.63	12.9280	1.000	1	12.93
Endosulfan sulfate	18.434	73913.00	12.7300	1.000	1	12.73
Methoxychlor	19.201	126564.86	53.0927	1.000	1	53.09
Endrin ketone	19.744	91536.54	12.4138	1.000	1	12.41
Decachlorobiphenyl	21.985	46267.26	11.4213	1.000	1	11.42
		1484361.55	248.0525			248.05

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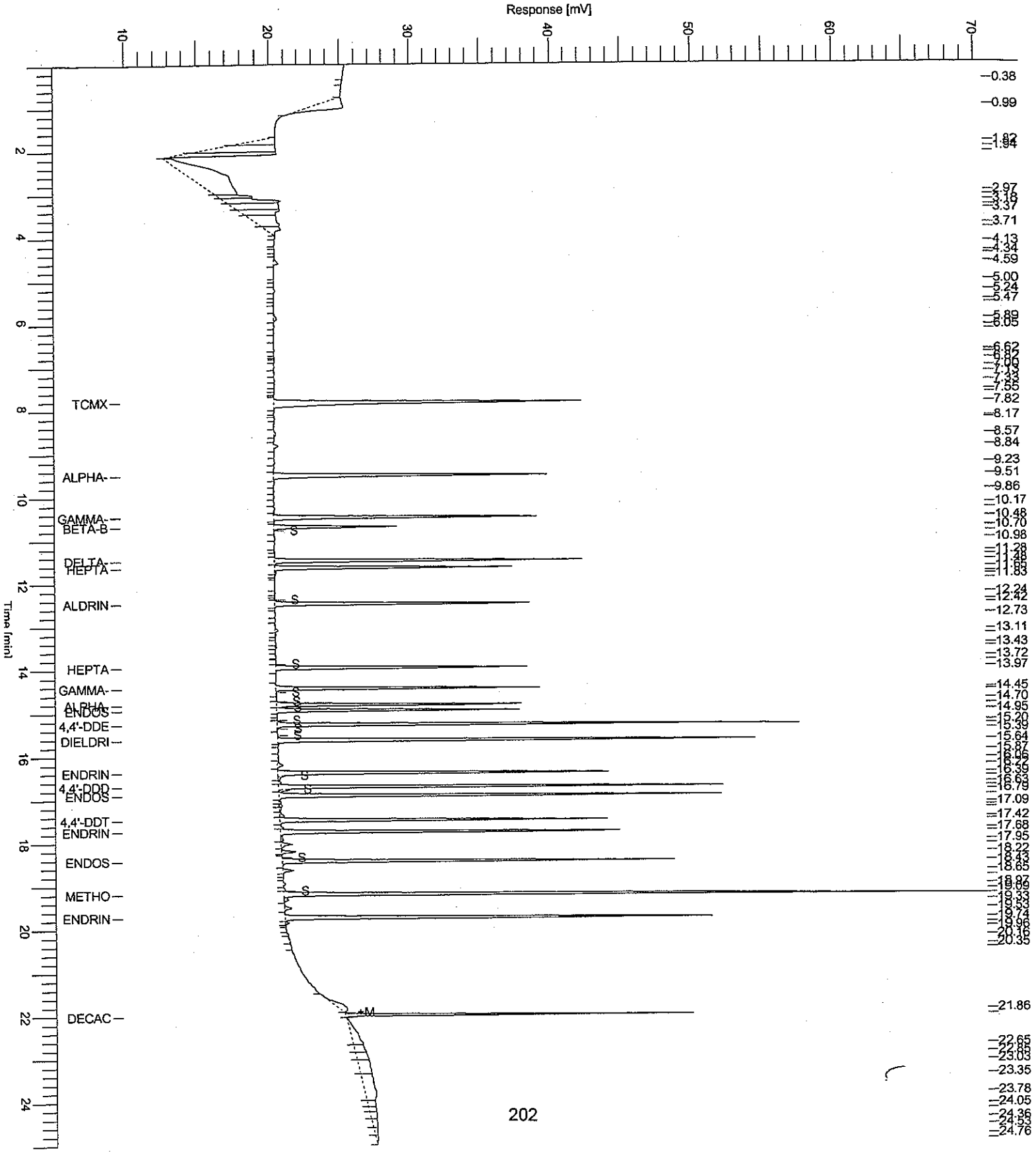
12/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHB\335b008p.TX0

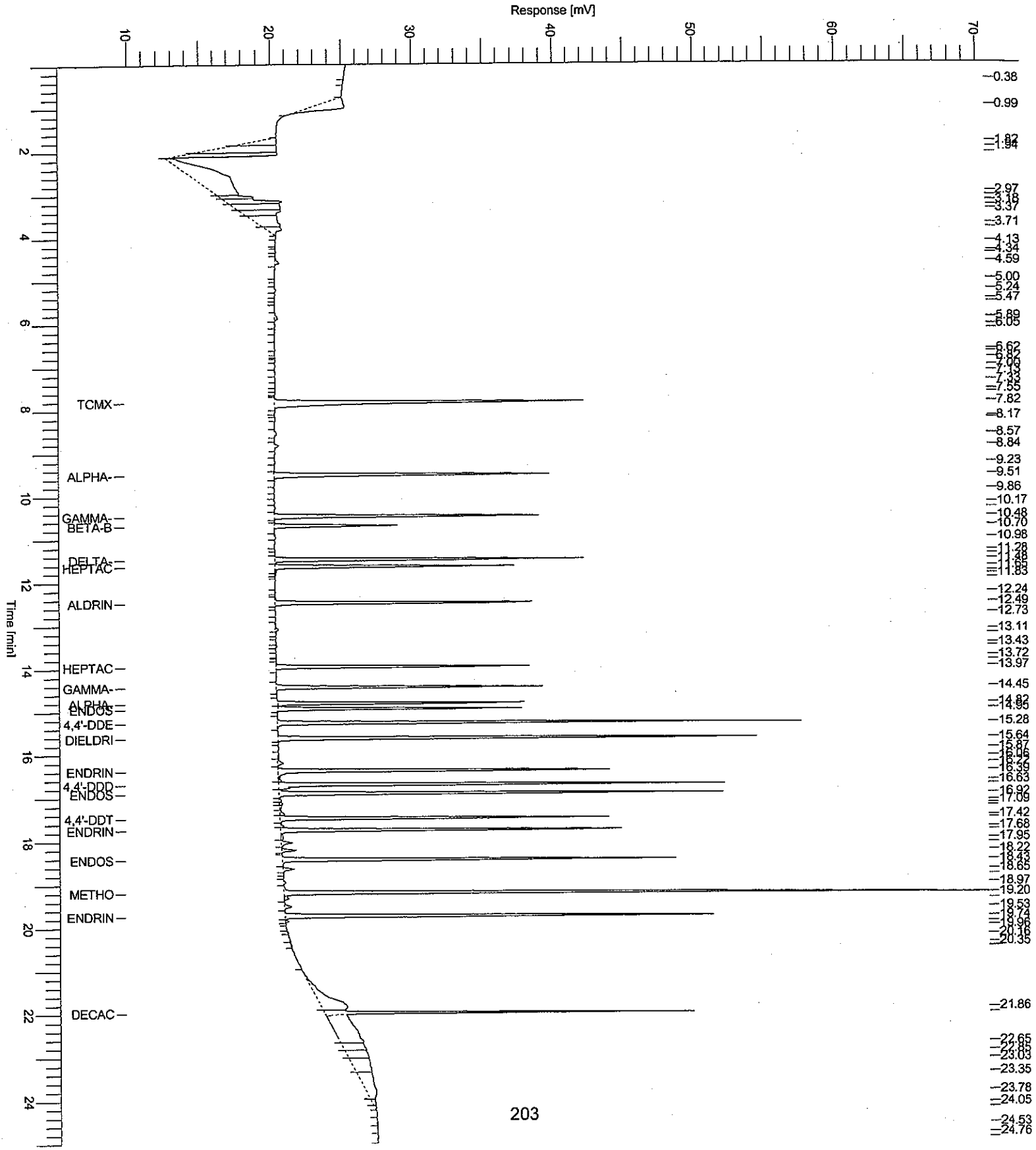
GC21 Rtx-CLPesticides2

Sample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
FileName : G:\gc21\CHb\335b008.raw
Date : 12/1/04 1:27:25 PM
Method :
Time of Injection: 11/30/04 9:22:14 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 9.62 mV High Point : 70.64 mV
Plot Offset: 9.62 mV Plot Scale: 61.0 mV



GC21 Rtx-CLPesticides2

Sample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
FileName : G:\gc21\CHb\335b008
Date : 12/1/04 12:03:51 PM
Method : gc21ins Time of Injection: 11/30/04 9:22:14 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 9.77 mV High Point : 70.64 mV
Scale Factor: 1.0 Plot Offset: 9.77 mV Plot Scale: 60.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2051,pest_3
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 12/1/04 12:49:43 PM
Data Acquisition Time : 11/30/04 9:51:20 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a009p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.518	147616.00	18.9965	1.000	1	19.00
alpha-BHC	10.172	116889.00	9.5801	1.000	1	9.58
gamma-BHC	11.083	106334.40	9.6455	1.000	1	9.65
beta-BHC	11.336	47250.55	9.9636	1.000	1	9.96
delta-BHC	11.833	107716.50	9.8953	1.000	1	9.90
Heptachlor	12.402	97599.00	9.2484	1.000	1	9.25
Aldrin	13.219	101375.00	9.6334	1.000	1	9.63
Heptachlor epoxide	14.835	94787.00	9.8700	1.000	1	9.87
gamma-Chlordane	15.153	94757.00	9.7292	1.000	1	9.73
alpha-Chlordane	15.497	91758.50	9.7966	1.000	1	9.80
4,4'-DDE	15.684	180446.50	19.0906	1.000	1	19.09
Endosulfan I	15.854	86163.50	9.9500	1.000	1	9.95
Dieldrin	16.467	189739.54	19.4434	1.000	1	19.44
Endrin	17.055	147217.00	20.2821	1.000	1	20.28
4,4'-DDD	17.203	150966.00	20.2369	1.000	1	20.24
Endosulfan II	17.628	154350.42	20.4194	1.000	1	20.42
4,4'-DDT	17.900	126165.46	17.4571	1.000	1	17.46
Endrin aldehyde	18.684	126287.31	19.9933	1.000	1	19.99
Methoxychlor	19.089	286954.91	94.0015	1.000	1	94.00
Endosulfan sulfate	19.780	133177.35	20.0822	1.000	1	20.08
Endrin ketone	20.428	150141.20	20.6542	1.000	1	20.65
Decachlorobiphenyl	22.098	102784.93	19.9439	1.000	1	19.94
		2840477.07	407.9133			407.91

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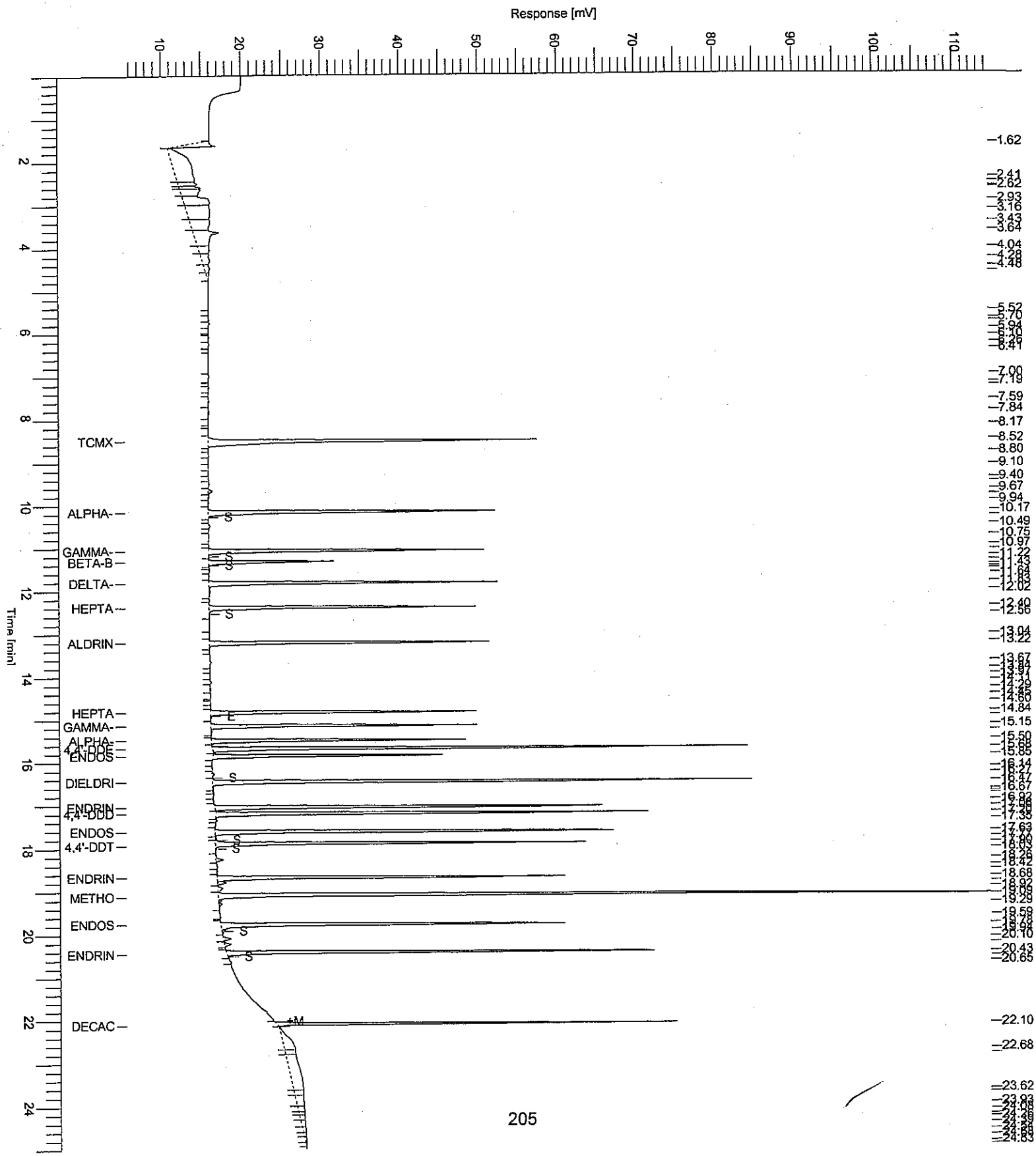
12/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHA\335a009p.TX0

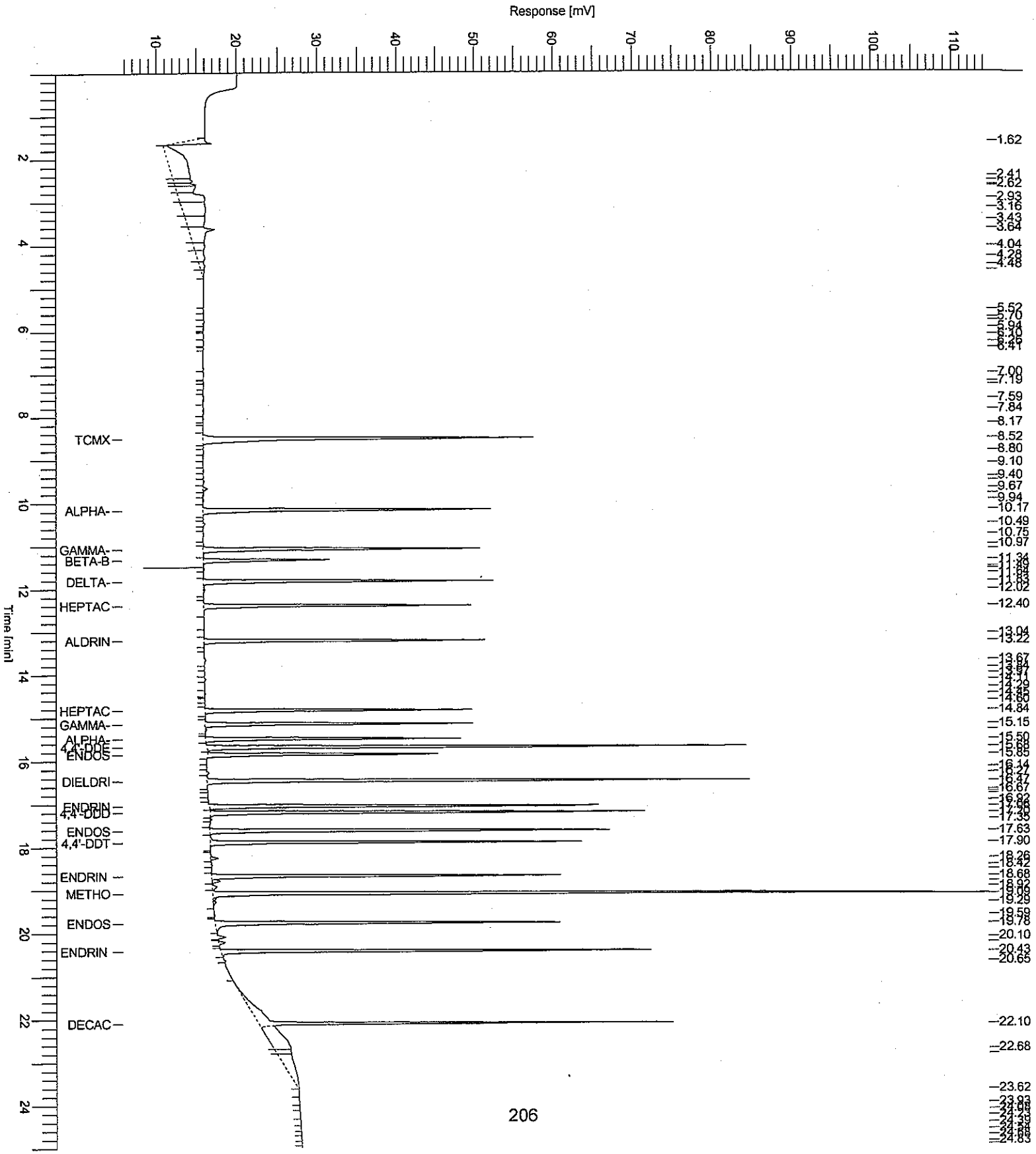
GC21 Rtx-CLPesticides

Sample Name : ical,04ws2051,pest_3 Sample #: level_3 Page 1 of 1
FileName : G:\gc21\CHA\335a009.raw
Date : 12/1/04 12:49:48 PM
Method :
Time of Injection: 11/30/04 9:51:20 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.38 mV High Point : 114.44 mV
Plot Offset: 5.38 mV Plot Scale: 109.1 mV



GC21 Rtx-CLPesticides

Sample Name : ical,04ws2051,pest_3 Sample #: level_3
FileName : G:\gc21\CHA\335a009.raw
Date : 12/1/04 12:03:20 PM
Method : gc21ins Time of Injection: 11/30/04 9:51:20 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.65 mV High Point : 114.44 mV
Scale Factor: 1.0 Plot Offset: 5.65 mV Plot Scale: 108.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2051,pest_3
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 9

Date : 12/1/04 1:29:22 PM
Data Acquisition Time : 11/30/04 9:51:20 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b009p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.820	166700.50	22.6408	1.000	1	22.64
alpha-BHC	9.506	127312.61	11.0968	1.000	1	11.10
gamma-BHC	10.473	112476.00	11.2370	1.000	1	11.24
beta-BHC	10.698	48510.22	12.1421	1.000	1	12.14
delta-BHC	11.482	115243.50	11.5187	1.000	1	11.52
Heptachlor	11.648	94313.00	10.9333	1.000	1	10.93
Aldrin	12.485	104345.50	11.8288	1.000	1	11.83
Heptachlor epoxide	13.967	96910.63	12.2254	1.000	1	12.23
gamma-Chlordane	14.445	98428.00	12.3600	1.000	1	12.36
alpha-Chlordane	14.817	93368.50	12.3841	1.000	1	12.38
Endosulfan I	14.948	88507.00	12.3855	1.000	1	12.39
4,4'-DDE	15.279	188836.93	24.4494	1.000	1	24.45
Dieldrin	15.634	189313.06	24.2918	1.000	1	24.29
Endrin	16.386	137583.07	24.7027	1.000	1	24.70
4,4'-DDD	16.705	161045.52	25.3902	1.000	1	25.39
Endosulfan II	16.912	165157.37	24.6815	1.000	1	24.68
4,4'-DDT	17.481	125924.78	21.3952	1.000	1	21.40
Endrin aldehyde	17.751	132086.12	25.0088	1.000	1	25.01
Endosulfan sulfate	18.432	143073.97	24.6416	1.000	1	24.64
Methoxychlor	19.198	269945.53	113.2394	1.000	1	113.24
Endrin ketone	19.736	178672.00	24.2308	1.000	1	24.23
Decachlorobiphenyl	21.985	98031.34	24.1996	1.000	1	24.20
		2935785.14	496.9837			496.98

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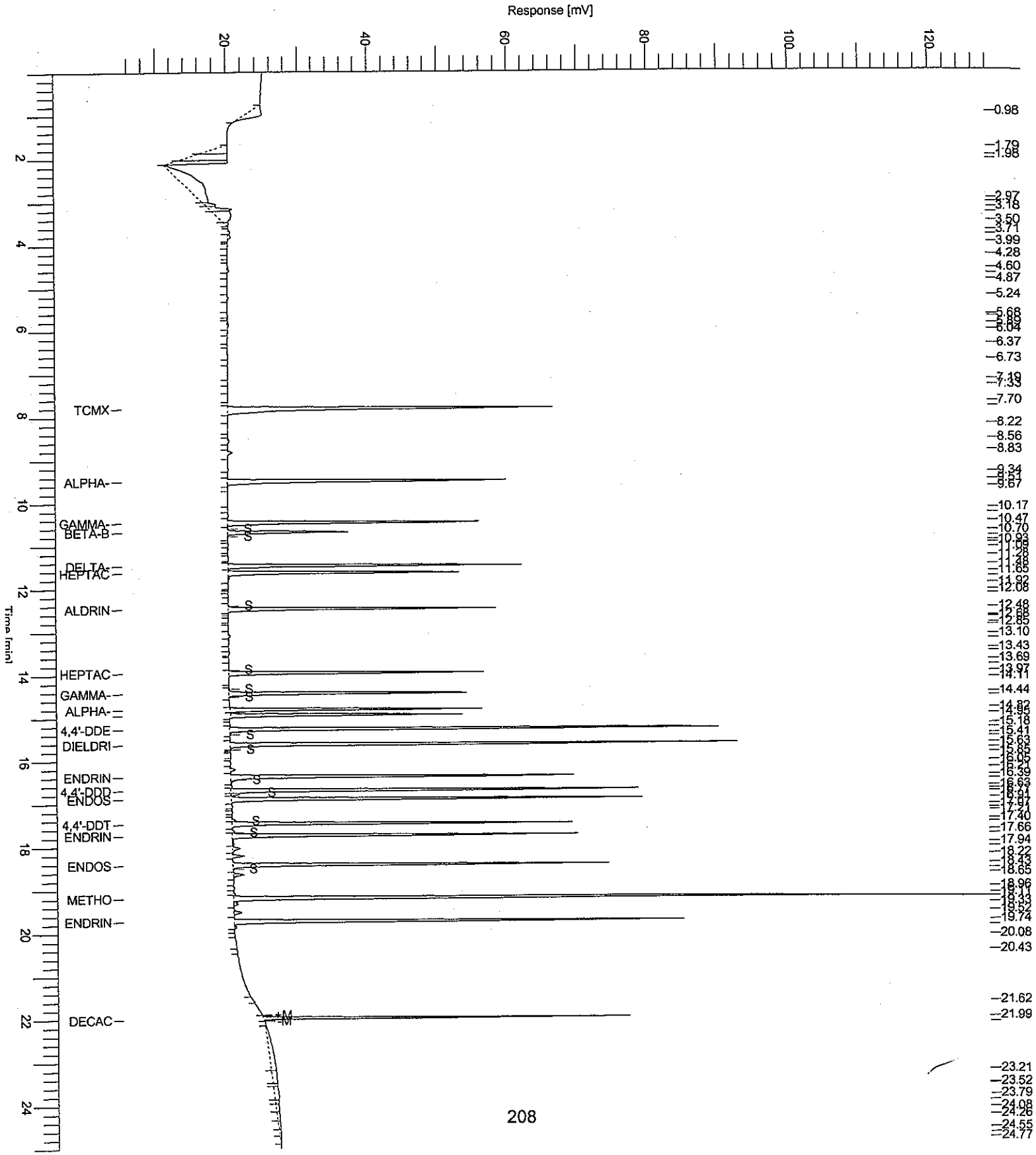
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHB\335b009p.TX0

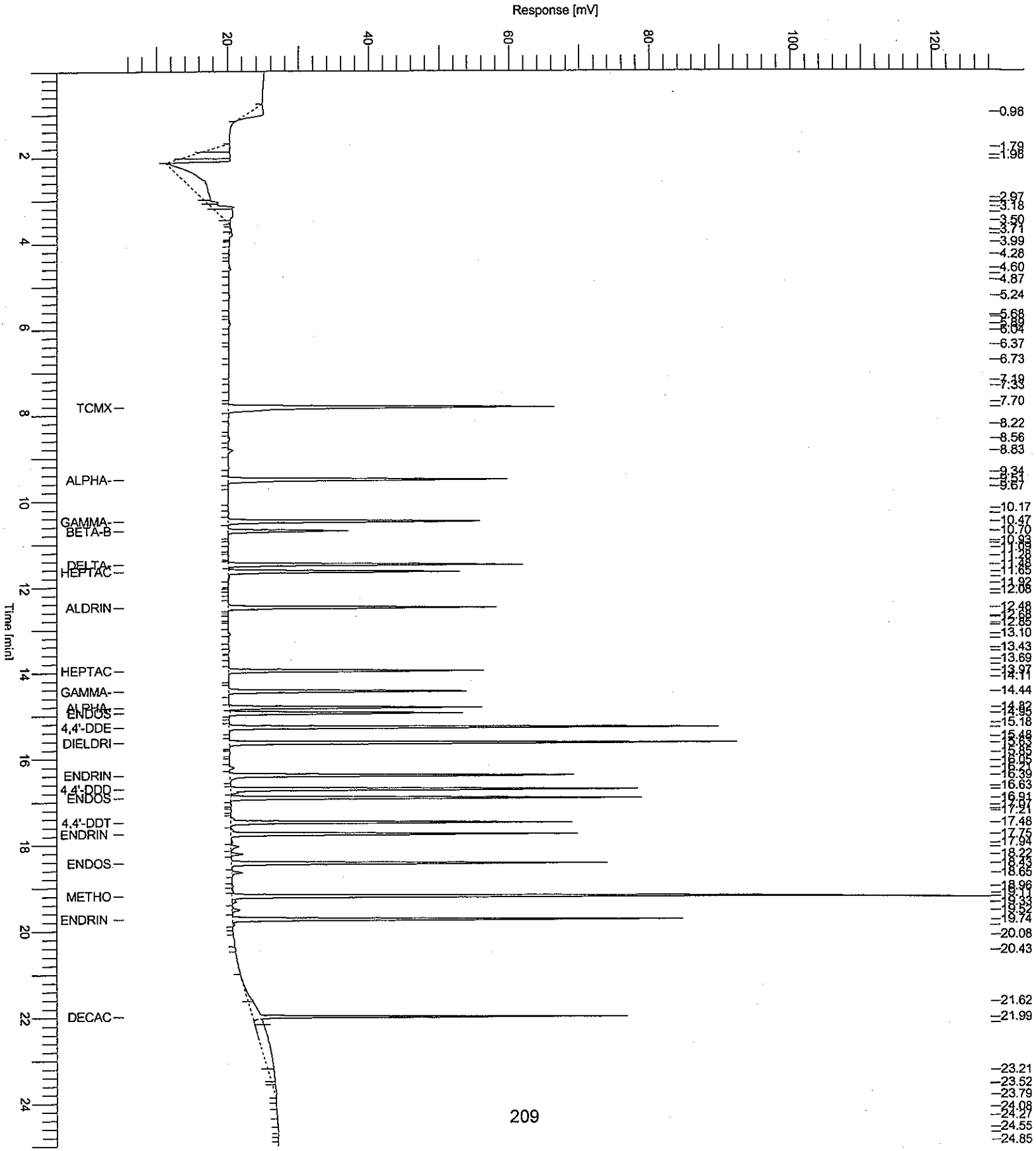
GC21 Rtx-CLPesticides2

ample Name : ical,04ws2051,pest_3 Sample #: level_3 Page 1 of 1
ileName : G:\gc21\CHb\335b009.raw
ate : 12/1/04 1:29:27 PM
ethod :
Time of Injection: 11/30/04 9:51:20 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 5.12 mV High Point : 128.02 mV
lot Offset: 5.12 mV Plot Scale: 122.9 mV



GC21 Rtx-CLPesticides2

Sample Name : ical,04ws2051,pest_3 Sample #: level_3 Page 1 of 1
FileName : G:\gc21\CHb\335b009
Date : 12/1/04 12:03:57 PM
Method : gc21ins Time of Injection: 11/30/04 9:51:20 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.43 mV High Point : 128.02 mV
Scale Factor: 1.0 Plot Offset: 5.43 mV Plot Scale: 122.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2052,pest_4
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 12/1/04 12:53:09 PM
Data Acquisition Time : 11/30/04 10:20:15 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a010p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.520	292739.00	37.6721	1.000	1	37.67
alpha-BHC	10.180	234518.03	19.2209	1.000	1	19.22
gamma-BHC	11.087	210866.56	19.1276	1.000	1	19.13
beta-BHC	11.345	91384.21	19.2699	1.000	1	19.27
delta-BHC	11.838	210636.50	19.3500	1.000	1	19.35
Heptachlor	12.411	192457.19	18.2370	1.000	1	18.24
Aldrin	13.228	197907.00	18.8065	1.000	1	18.81
Heptachlor epoxide	14.845	182863.00	19.0411	1.000	1	19.04
gamma-Chlordane	15.163	183530.50	18.8440	1.000	1	18.84
alpha-Chlordane	15.502	176226.00	18.8149	1.000	1	18.81
4,4'-DDE	15.694	352946.00	37.3405	1.000	1	37.34
Endosulfan I	15.864	164932.50	19.0460	1.000	1	19.05
Dieldrin	16.472	371465.84	38.0657	1.000	1	38.07
Endrin	17.065	283681.50	39.0829	1.000	1	39.08
4,4'-DDD	17.213	290678.50	38.9654	1.000	1	38.97
Endosulfan II	17.633	292831.00	38.7394	1.000	1	38.74
4,4'-DDT	17.904	245830.00	34.0148	1.000	1	34.01
Endrin aldehyde	18.689	234934.62	37.1939	1.000	1	37.19
Methoxychlor	19.099	557359.75	182.5814	1.000	1	182.58
Endosulfan sulfate	19.785	251431.94	37.9142	1.000	1	37.91
Endrin ketone	20.432	283200.99	38.9585	1.000	1	38.96
Decachlorobiphenyl	22.100	191238.46	37.1071	1.000	1	37.11
		5493659.08	787.3938			787.39

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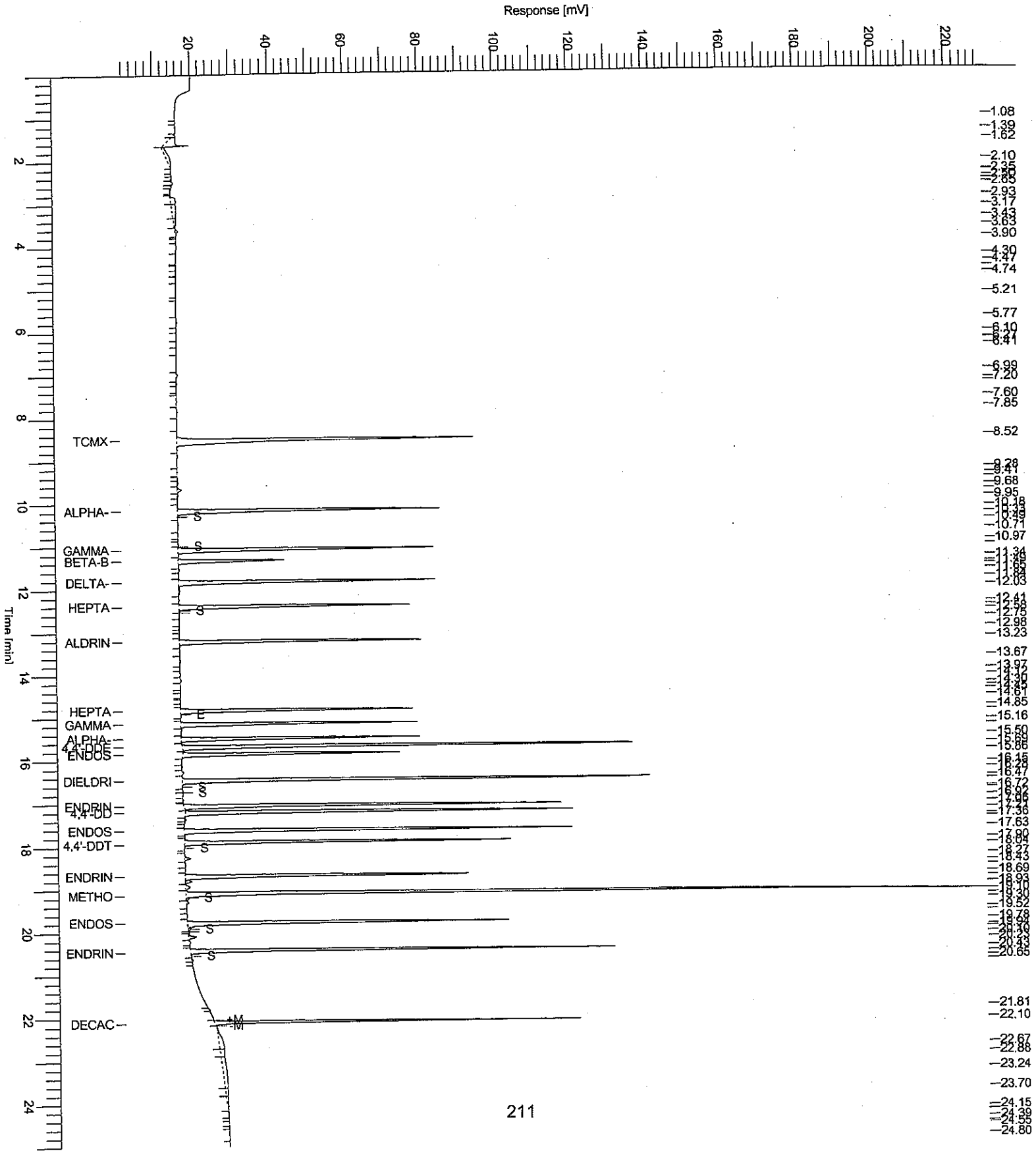
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHA\335a010p.TX0

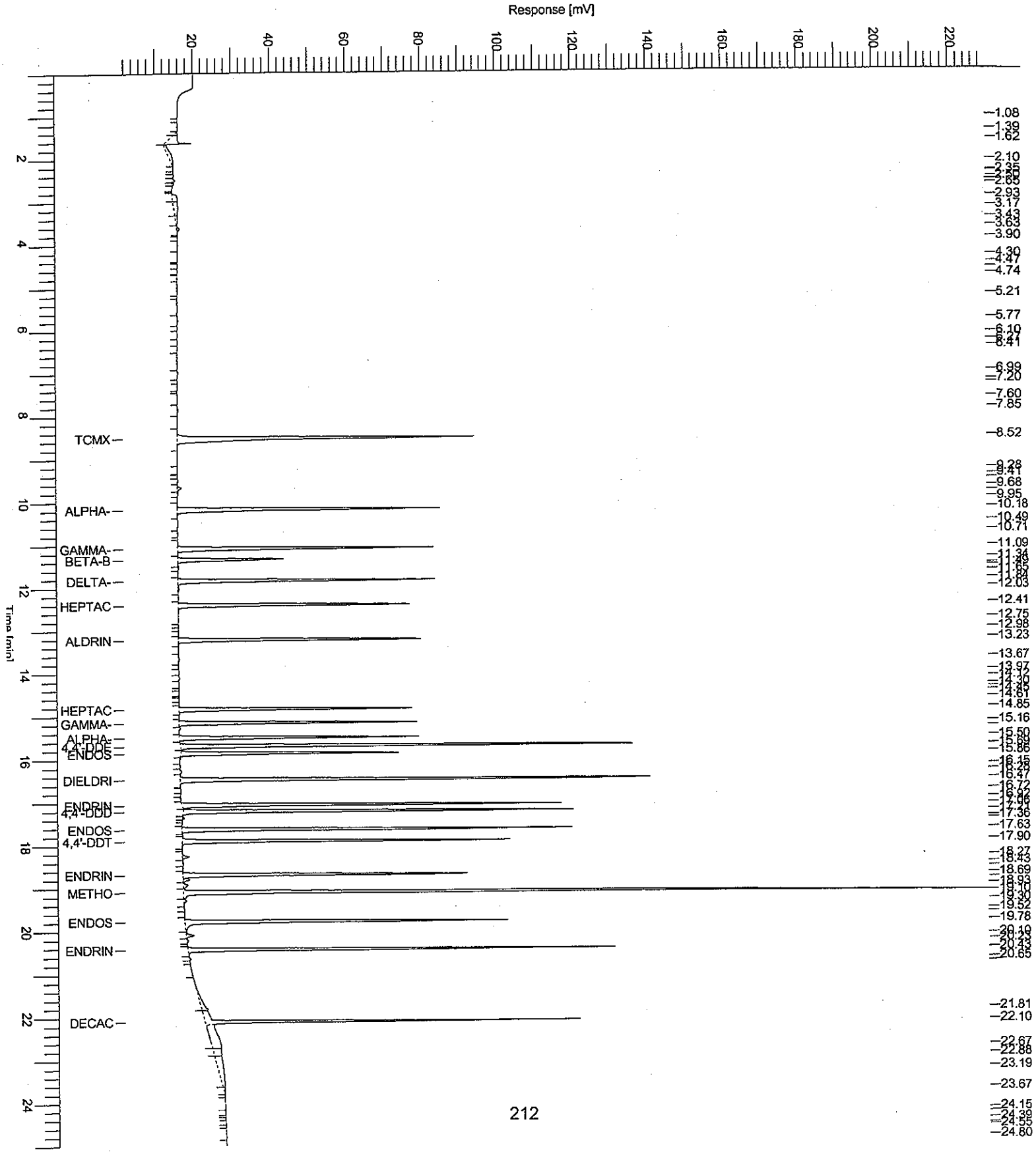
GC21 Rtx-CLPesticides

ample Name : ical,04ws2052,pest_4 Sample #: level_4 Page 1 of 1
ileName : G:\gc21\CHA\335a010.raw
ate : 12/1/04 12:53:17 PM
lethod :
Time of Injection: 11/30/04 10:20:15 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.83 mV High Point : 229.76 mV
lot Offset: 0.83 mV Plot Scale: 228.9 mV



GC21 Rtx-CLPesticides

ample Name : ical,04ws2052,pest_4 Sample #: level_4
ileName : G:\gc21\CHA\335a010.raw
ate : 12/1/04 12:03:25 PM
ethod : gc21ins Time of Injection: 11/30/04 10:20:15 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 1.40 mV High Point : 229.76 mV
cale Factor: 1.0 Plot Offset: 1.40 mV Plot Scale: 228.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2052,pest_4
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 10

Date : 12/1/04 1:31:25 PM
Data Acquisition Time : 11/30/04 10:20:15 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b010p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.822	322130.50	43.7510	1.000	1	43.75
alpha-BHC	9.515	247353.84	21.5598	1.000	1	21.56
gamma-BHC	10.483	220263.00	22.0056	1.000	1	22.01
beta-BHC	10.703	94154.00	23.5668	1.000	1	23.57
delta-BHC	11.487	226909.50	22.6797	1.000	1	22.68
Heptachlor	11.652	185394.00	21.4920	1.000	1	21.49
Aldrin	12.495	206603.50	23.4211	1.000	1	23.42
Heptachlor epoxide	13.973	192248.00	24.2524	1.000	1	24.25
gamma-Chlordane	14.450	196673.19	24.6971	1.000	1	24.70
alpha-Chlordane	14.828	188697.41	25.0282	1.000	1	25.03
Endosulfan I	14.953	177455.86	24.8329	1.000	1	24.83
4,4'-DDE	15.284	395976.47	51.2685	1.000	1	51.27
Dieldrin	15.645	391660.00	50.2562	1.000	1	50.26
Endrin	16.397	275603.10	49.4839	1.000	1	49.48
4,4'-DDD	16.715	326961.50	51.5483	1.000	1	51.55
Endosulfan II	16.917	336124.05	50.2312	1.000	1	50.23
4,4'-DDT	17.486	274221.21	46.5914	1.000	1	46.59
Endrin aldehyde	17.761	260934.56	49.4045	1.000	1	49.40
Endosulfan sulfate	18.436	286352.98	49.3186	1.000	1	49.32
Methoxychlor	19.203	604490.94	253.5778	1.000	1	253.58
Endrin ketone	19.746	362496.49	49.1603	1.000	1	49.16
Decachlorobiphenyl	21.986	205789.57	50.8003	1.000	1	50.80
		5978493.67	1028.9274			1028.93

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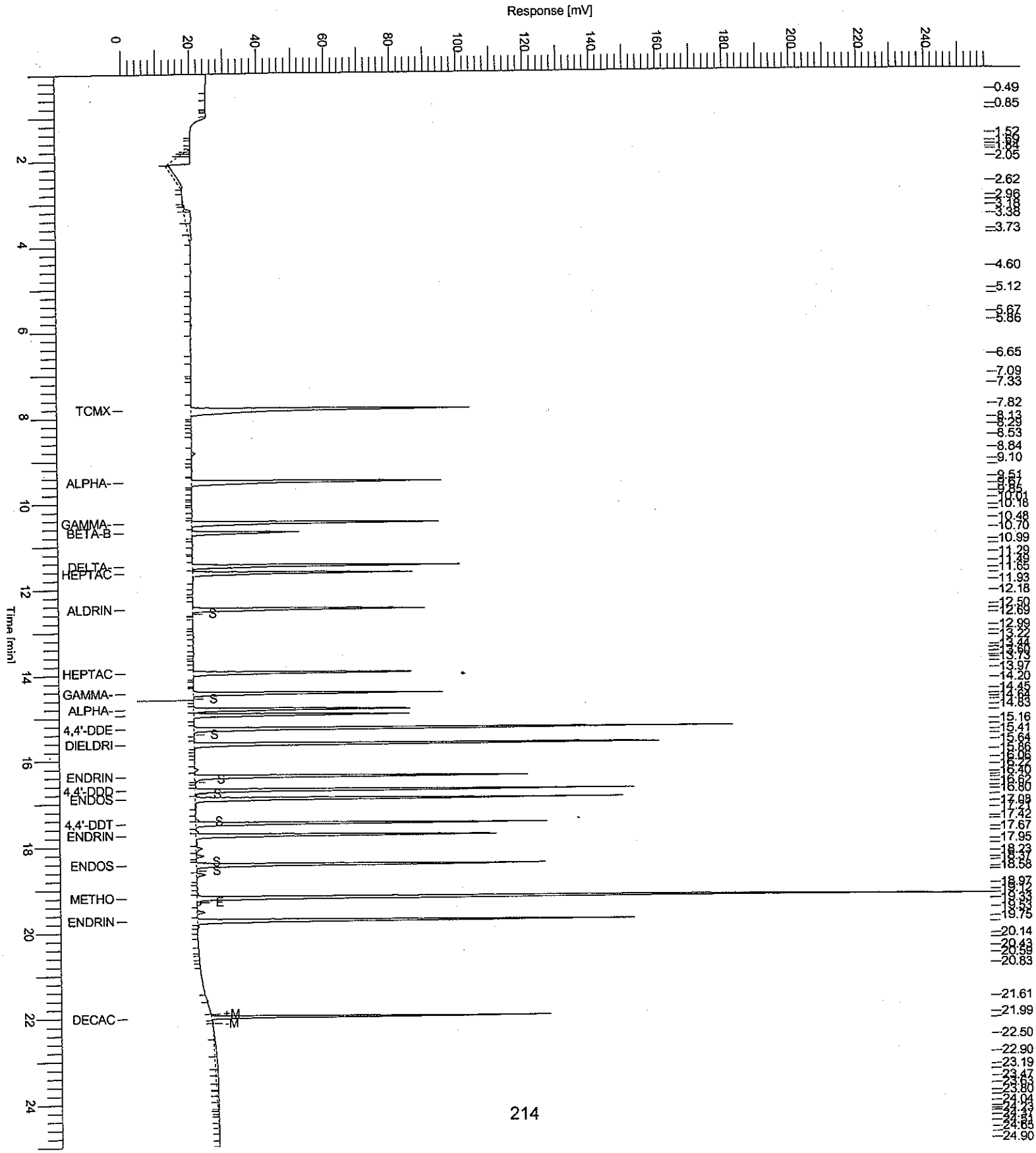
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHB\335b010p.TX0

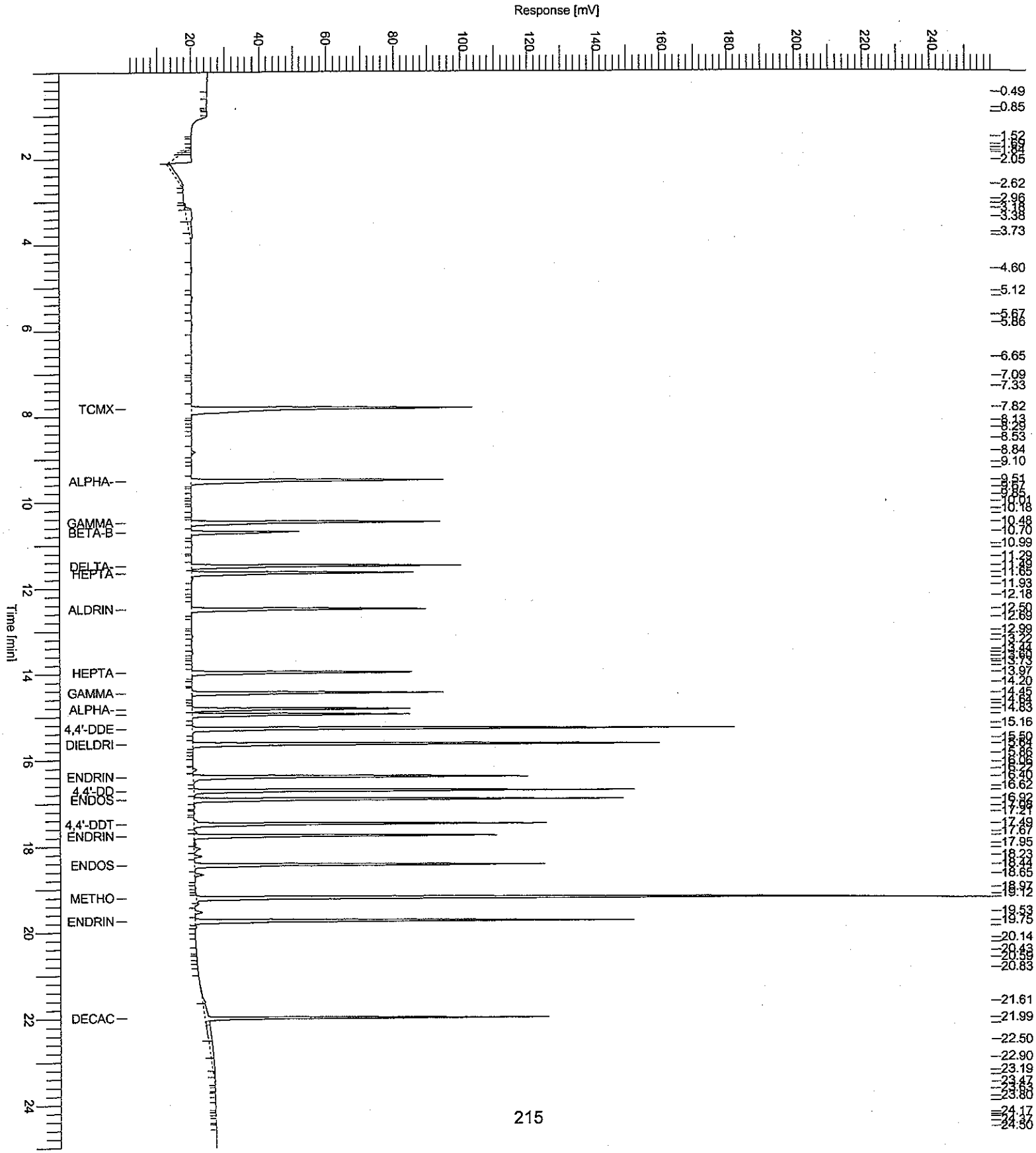
GC21 Rtx-CLPesticides2

ample Name : ical,04ws2052,pest_4 Sample #: level_4 Page 1 of 1
ileName : G:\gc21\CHb\335b010.raw
ate : 12/1/04 1:31:30 PM
ethod :
Time of Injection: 11/30/04 10:20:15 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.09 mV High Point : 258.03 mV
lot Offset: -0.09 mV. Plot Scale: 258.1 mV



GC21 Rtx-CLPesticides2

Sample Name : ical,04ws2052,pest_4 Sample #: level_4 Page 1 of 1
FileName : G:\gc21\CHb\335b010
Date : 12/1/04 12:04:02 PM
Method : gc21ins Time of Injection: 11/30/04 10:20:15 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.55 mV High Point : 258.03 mV
Scale Factor: 1.0 Plot Offset: 0.55 mV Plot Scale: 257.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2053,pest_5
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 12/1/04 12:55:44 PM
Data Acquisition Time : 11/30/04 10:49:21 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a011p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.521	367039.00	47.2337	1.000	1	47.23
alpha-BHC	10.180	299200.66	24.5222	1.000	1	24.52
gamma-BHC	11.086	269379.38	24.4352	1.000	1	24.44
beta-BHC	11.340	116073.36	24.4760	1.000	1	24.48
delta-BHC	11.837	271970.00	24.9843	1.000	1	24.98
Heptachlor	12.406	250849.00	23.7701	1.000	1	23.77
Aldrin	13.222	255662.07	24.2948	1.000	1	24.29
Heptachlor epoxide	14.844	236228.80	24.5980	1.000	1	24.60
gamma-Chlordane	15.161	237281.00	24.3628	1.000	1	24.36
alpha-Chlordane	15.501	228177.00	24.3614	1.000	1	24.36
4,4'-DDE	15.688	465498.00	49.2481	1.000	1	49.25
Endosulfan I	15.863	212652.50	24.5566	1.000	1	24.56
Dieldrin	16.470	487666.27	49.9733	1.000	1	49.97
Endrin	17.064	371629.00	51.1995	1.000	1	51.20
4,4'-DDD	17.211	377738.00	50.6357	1.000	1	50.64
Endosulfan II	17.632	383801.39	50.7741	1.000	1	50.77
4,4'-DDT	17.903	336836.11	46.6070	1.000	1	46.61
Endrin aldehyde	18.688	306086.45	48.4583	1.000	1	48.46
Methoxychlor	19.097	767083.31	251.2832	1.000	1	251.28
Endosulfan sulfate	19.784	327700.74	49.4150	1.000	1	49.41
Endrin ketone	20.431	372700.80	51.2706	1.000	1	51.27
Decachlorobiphenyl	22.099	260657.93	50.5769	1.000	1	50.58
		7201910.78	1041.0372			1041.04

CJ 12/1/04

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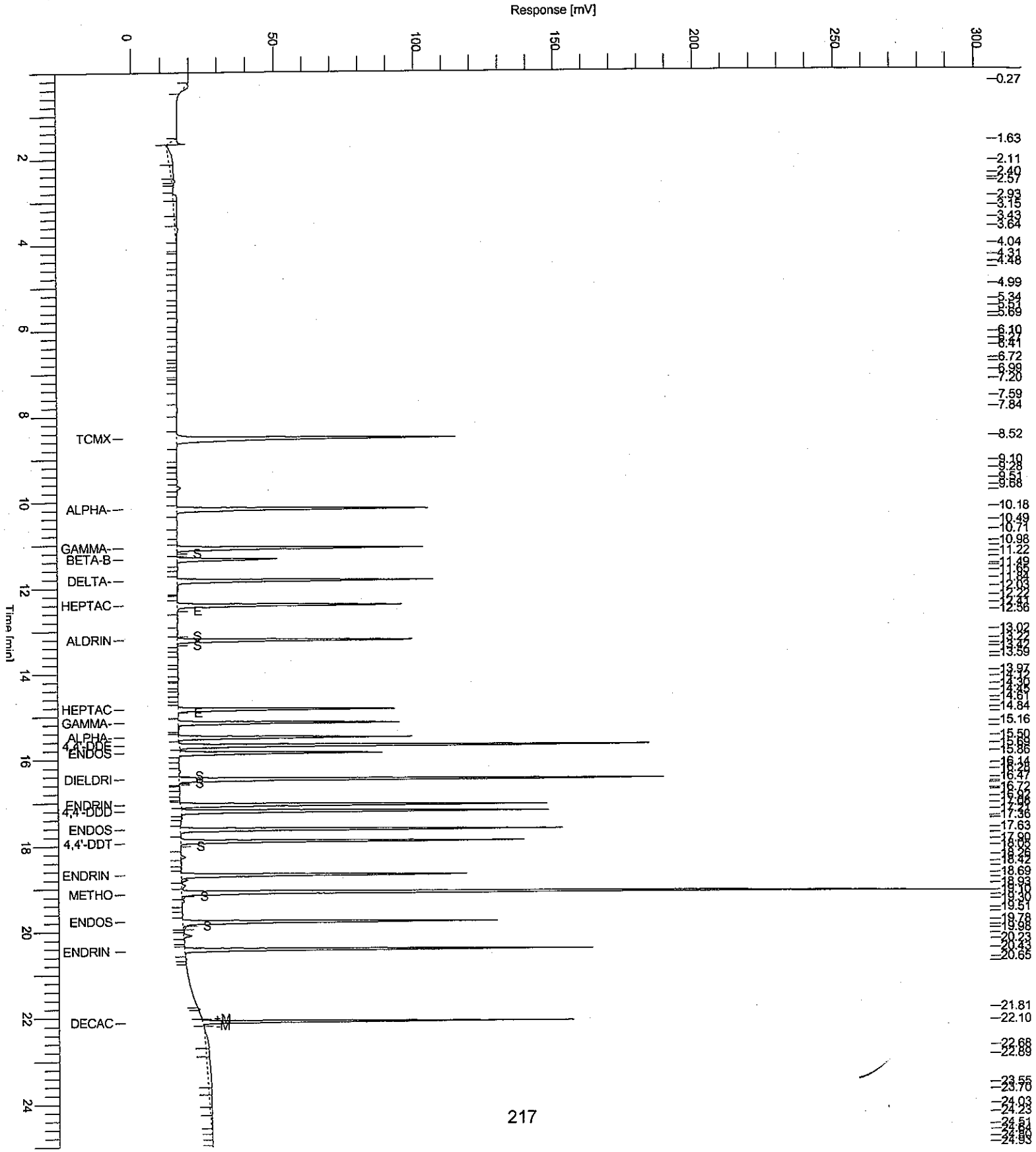
Report stored in ASCII file: G:\gc21\CHA\335a011p.TX0

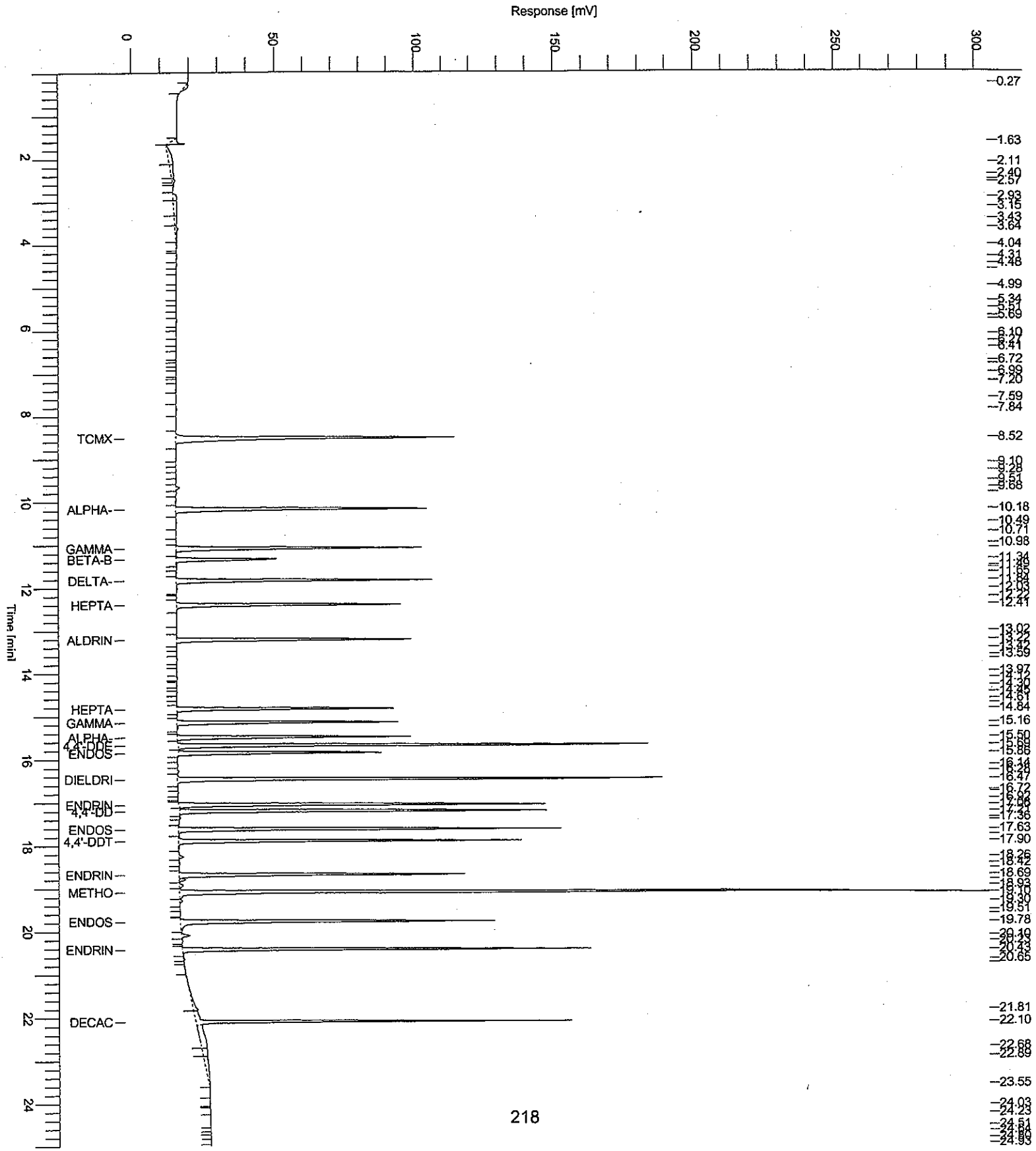
GC21 Rtx-CLPesticides

Sample Name : ical,04ws2053,pest_5 Sample #: level_5 Page 1 of 1
FileName : G:\gc21\CHA\335a011.raw
Date : 12/1/04 12:55:49 PM
Method :
Time of Injection: 11/30/04 10:49:21 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -3.29 mV High Point : 304.62 mV
Plot Offset: -3.29 mV Plot Scale: 307.9 mV



GC21 Rtx-CLPesticides

Sample Name : ical,04ws2053,pest_5 Sample #: level_5 Page 1 of 1
FileName : G:\gc21\CHA\335a011.raw
Date : 12/1/04 12:03:30 PM
Method : gc21ins Time of Injection: 11/30/04 10:49:21 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -2.52 mV High Point : 304.62 mV
Scale Factor: 1.0 Plot Offset: -2.52 mV Plot Scale: 307.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2053,pest_5
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 11

Date : 12/1/04 1:34:25 PM
Data Acquisition Time : 11/30/04 10:49:21 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b011p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.821	424432.50	57.6454	1.000	1	57.65
alpha-BHC	9.513	323472.00	28.1944	1.000	1	28.19
gamma-BHC	10.481	285373.31	28.5105	1.000	1	28.51
beta-BHC	10.701	119287.00	29.8576	1.000	1	29.86
delta-BHC	11.485	287695.00	28.7553	1.000	1	28.76
Heptachlor	11.651	245554.00	28.4661	1.000	1	28.47
Aldrin	12.488	259158.70	29.3788	1.000	1	29.38
Heptachlor epoxide	13.971	237601.13	29.9737	1.000	1	29.97
gamma-Chlordane	14.449	241092.00	30.2749	1.000	1	30.27
alpha-Chlordane	14.821	227636.00	30.1929	1.000	1	30.19
Endosulfan I	14.951	213696.00	29.9043	1.000	1	29.90
4,4'-DDE	15.282	488028.19	63.1868	1.000	1	63.19
Dieldrin	15.638	483551.95	62.0473	1.000	1	62.05
Endrin	16.395	356646.62	64.0351	1.000	1	64.04
4,4'-DDD	16.714	394261.26	62.1587	1.000	1	62.16
Endosulfan II	16.916	412313.64	61.6171	1.000	1	61.62
4,4'-DDT	17.484	356729.58	60.6099	1.000	1	60.61
Endrin aldehyde	17.754	314179.20	59.4857	1.000	1	59.49
Endosulfan sulfate	18.435	352347.04	60.6847	1.000	1	60.68
Methoxychlor	19.202	783463.54	328.6549	1.000	1	328.65
Endrin ketone	19.745	440401.21	59.7254	1.000	1	59.73
Decachlorobiphenyl	21.986	265264.44	65.4821	1.000	1	65.48
		7512184.29	1298.8416			1298.84

AJ 12/1/04

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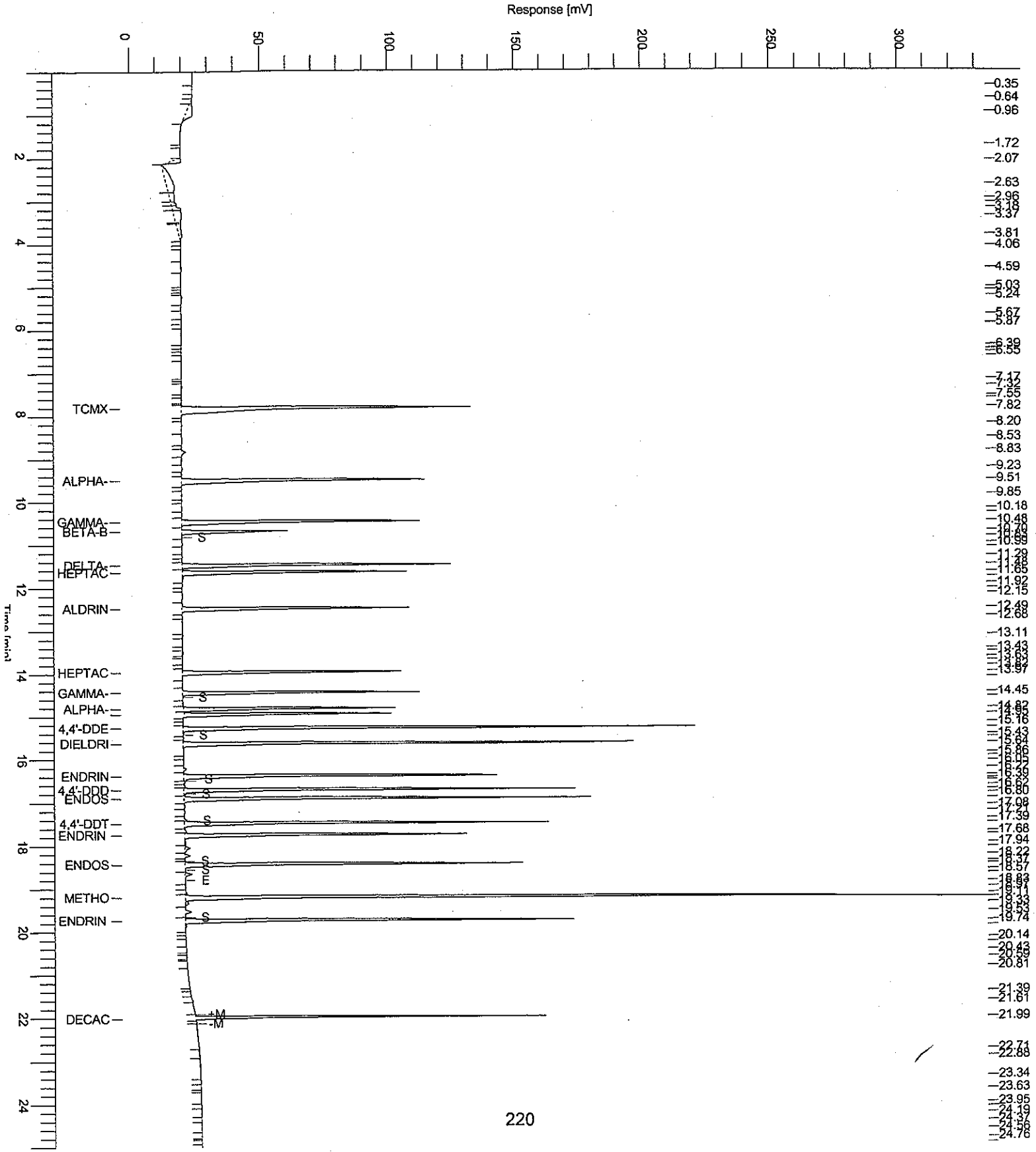
Report stored in ASCII file: G:\gc21\CHB\335b011p.TX0

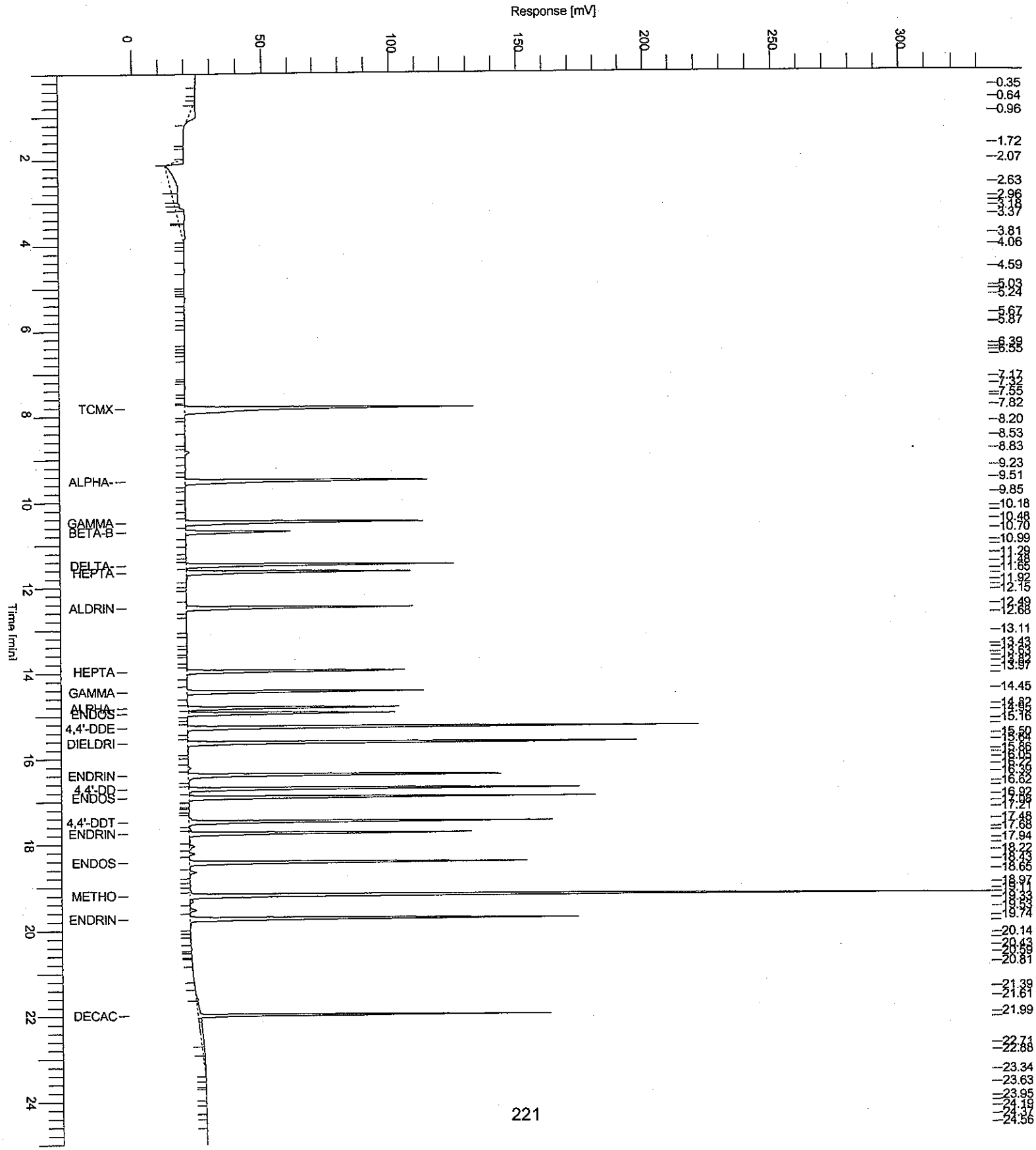
GC21 Rtx-CLPesticides2

Sample Name : ical,04ws2053,pest_5 Sample #: level_5 Page 1 of 1
FileName : G:\gc21\CHb\335b011.raw
Date : 12/1/04 1:34:30 PM
Method :
Time of Injection: 11/30/04 10:49:21 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -4.28 mV High Point : 334.12 mV
Plot Offset: -4.28 mV Plot Scale: 338.4 mV



GC21 Rtx-CLPesticides2

ample Name : ical,04ws2053,pest_5 Sample #: level_5 Page 1 of 1
ileName : G:\gc21\CHb\335b011
ate : 12/1/04 12:04:06 PM
ethod : gc21ins Time of Injection: 11/30/04 10:49:21 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.43 mV High Point : 334.12 mV
cale Factor: 1.0 Plot Offset: -3.43 mV Plot Scale: 337.6 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 12/1/04 12:57:23 PM
Data Acquisition Time : 11/30/04 11:18:25 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a012p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.519	764406.00	98.3703	1.000	1	98.37
alpha-BHC	10.174	633961.52	51.9589	1.000	1	51.96
gamma-BHC	11.084	564114.42	51.1705	1.000	1	51.17
beta-BHC	11.338	228549.64	48.1935	1.000	1	48.19
delta-BHC	11.835	569445.43	52.3117	1.000	1	52.31
Heptachlor	12.403	517137.00	49.0032	1.000	1	49.00
Aldrin	13.220	530762.50	50.4368	1.000	1	50.44
Heptachlor epoxide	14.837	482795.00	50.2724	1.000	1	50.27
gamma-Chlordane	15.154	492190.00	50.5355	1.000	1	50.54
alpha-Chlordane	15.499	469136.00	50.0875	1.000	1	50.09
4,4'-DDE	15.686	1006811.00	106.5172	1.000	1	106.52
Endosulfan I	15.856	431500.50	49.8287	1.000	1	49.83
Dieldrin	16.469	1042256.37	106.8046	1.000	1	106.80
Endrin	17.062	767624.00	105.7558	1.000	1	105.76
4,4'-DDD	17.204	806014.00	108.0459	1.000	1	108.05
Endosulfan II	17.630	797472.95	105.4999	1.000	1	105.50
4,4'-DDT	17.901	706199.55	97.7148	1.000	1	97.71
Endrin aldehyde	18.686	628055.86	99.4312	1.000	1	99.43
Methoxychlor	19.096	1582473.15	518.3909	1.000	1	518.39
Endosulfan sulfate	19.782	675600.57	101.8759	1.000	1	101.88
Endrin ketone	20.430	776573.11	106.8293	1.000	1	106.83
Decachlorobiphenyl	22.099	523792.06	101.6343	1.000	1	101.63
		14996870.63	2160.6690			2160.67

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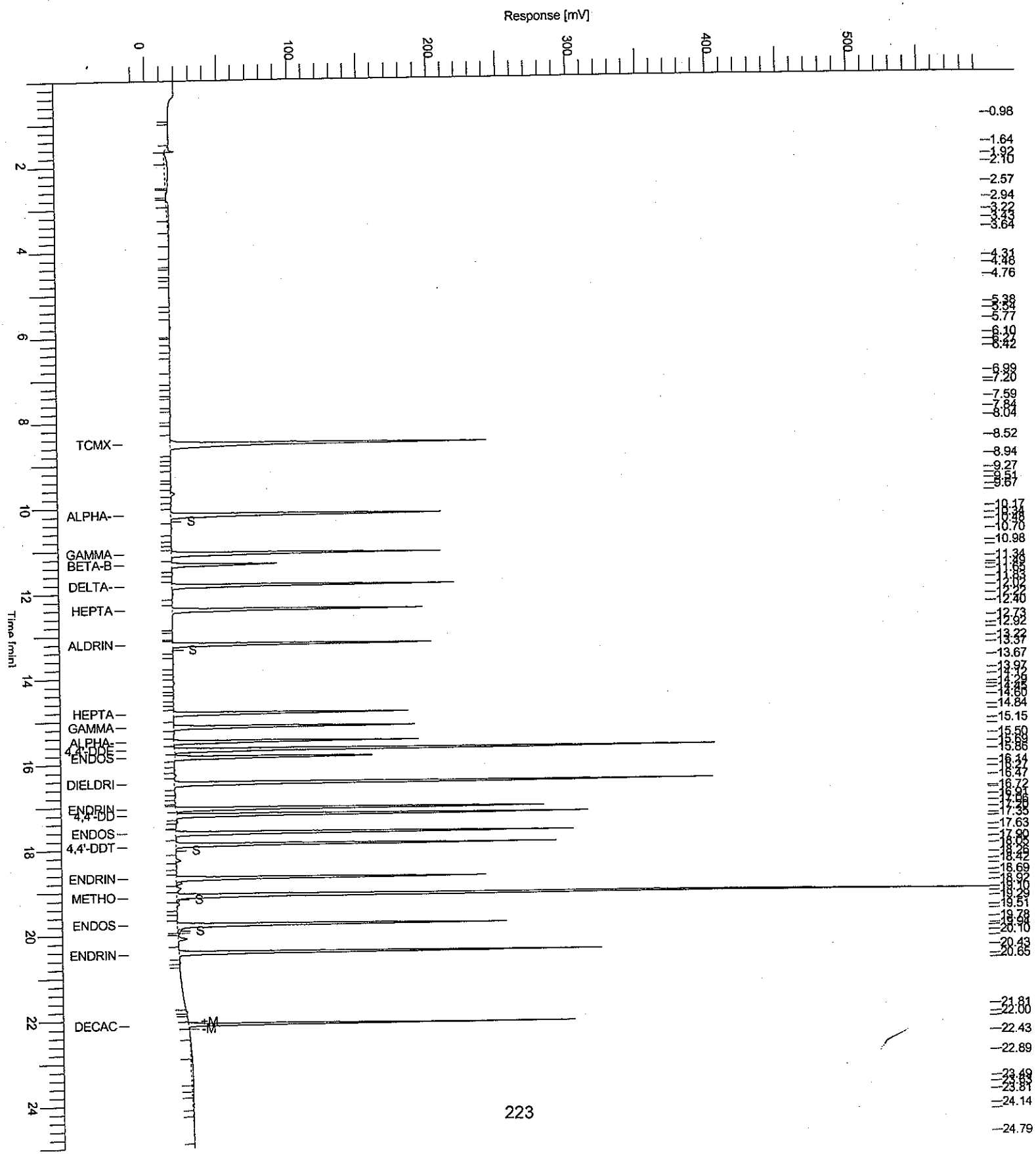
12/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHA\335a012p.TX0

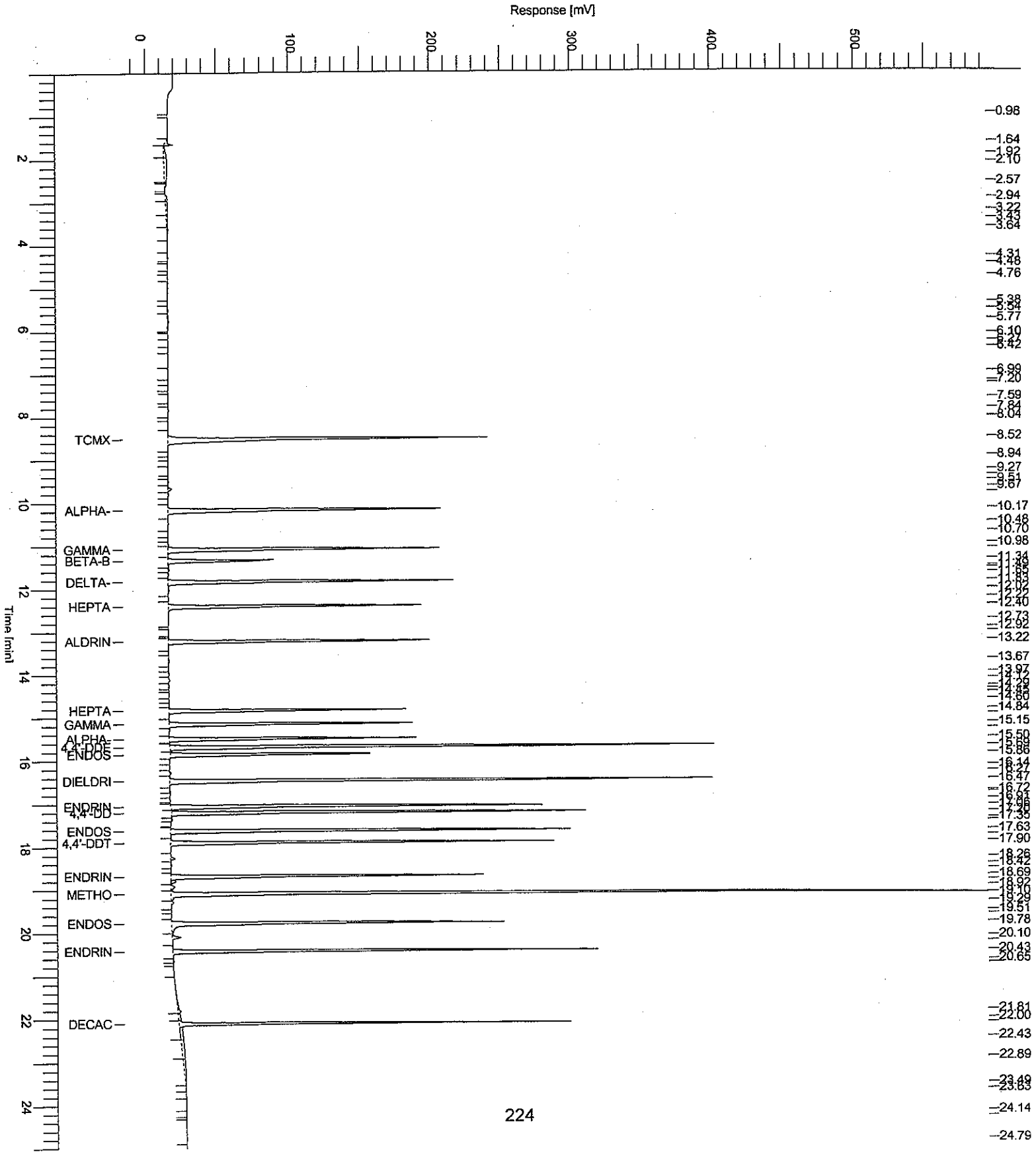
GC21 Rtx-CLPesticides

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
ileName : G:\gc21\CHA\335a012.raw
ate : 12/1/04 12:57:29 PM
lethod :
Time of Injection: 11/30/04 11:18:25 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -17.71 mV High Point : 594.34 mV
lot Offset: -17.71 mV Plot Scale: 612.1 mV



GC21 Rtx-CLPesticides

Sample Name : ical,04ws1634,pest_6 Sample #: level_6
FileName : G:\gc21\CHA\335a012.raw
Date : 12/1/04 12:03:35 PM
Method : gc21ins Time of Injection: 11/30/04 11:18:25 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -16.18 mV High Point : 594.34 mV
Scale Factor: 1.0 Plot Offset: -16.18 mV Plot Scale: 610.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 12

Date : 12/1/04 1:36:28 PM
Data Acquisition Time : 11/30/04 11:18:25 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b012p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.821	844312.50	114.6724	1.000	1	114.67
alpha-BHC	9.512	648097.00	56.4892	1.000	1	56.49
gamma-BHC	10.480	571934.33	57.1397	1.000	1	57.14
beta-BHC	10.700	227894.00	57.0419	1.000	1	57.04
delta-BHC	11.484	587958.50	58.7668	1.000	1	58.77
Heptachlor	11.649	473257.00	54.8627	1.000	1	54.86
Aldrin	12.487	522912.19	59.2785	1.000	1	59.28
Heptachlor epoxide	13.969	482115.81	60.8196	1.000	1	60.82
gamma-Chlordane	14.447	497259.79	62.4430	1.000	1	62.44
alpha-Chlordane	14.819	468265.50	62.1091	1.000	1	62.11
Endosulfan I	14.950	433566.00	60.6726	1.000	1	60.67
4,4'-DDE	15.281	1043606.63	135.1196	1.000	1	135.12
Dieldrin	15.636	1019801.04	130.8566	1.000	1	130.86
Endrin	16.388	698567.33	125.4262	1.000	1	125.43
4,4'-DDD	16.712	841076.28	132.6029	1.000	1	132.60
Endosulfan II	16.914	860922.55	128.6583	1.000	1	128.66
4,4'-DDT	17.483	717409.55	121.8910	1.000	1	121.89
Endrin aldehyde	17.753	662101.36	125.3601	1.000	1	125.36
Endosulfan sulfate	18.433	733679.77	126.3616	1.000	1	126.36
Methoxychlor	19.200	1491773.42	625.7837	1.000	1	625.78
Endrin ketone	19.738	914402.00	124.0074	1.000	1	124.01
Decachlorobiphenyl	21.986	477099.03	117.7747	1.000	1	117.77
		15218011.57	2598.1379			2598.14

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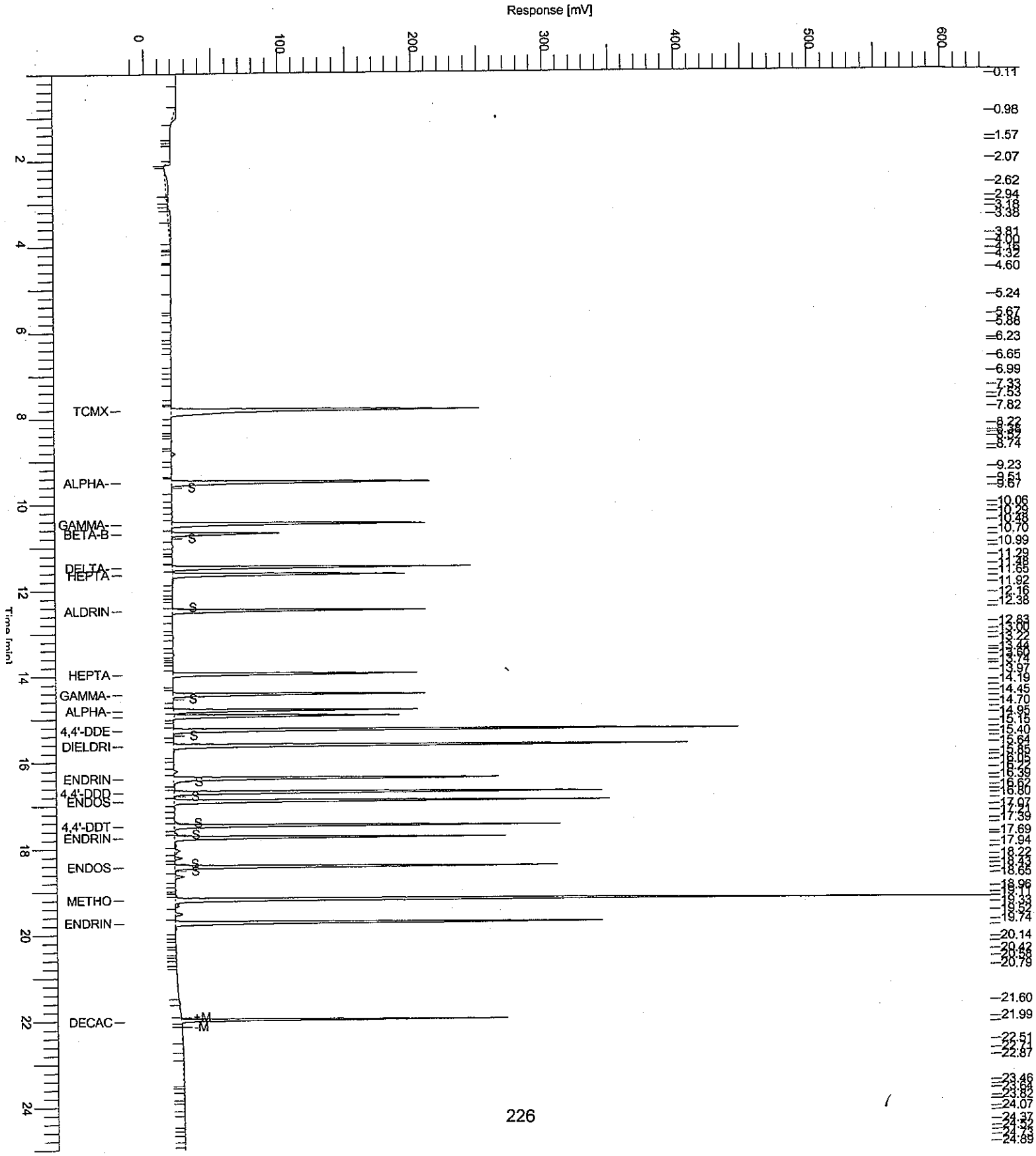
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHB\335b012p.TX0

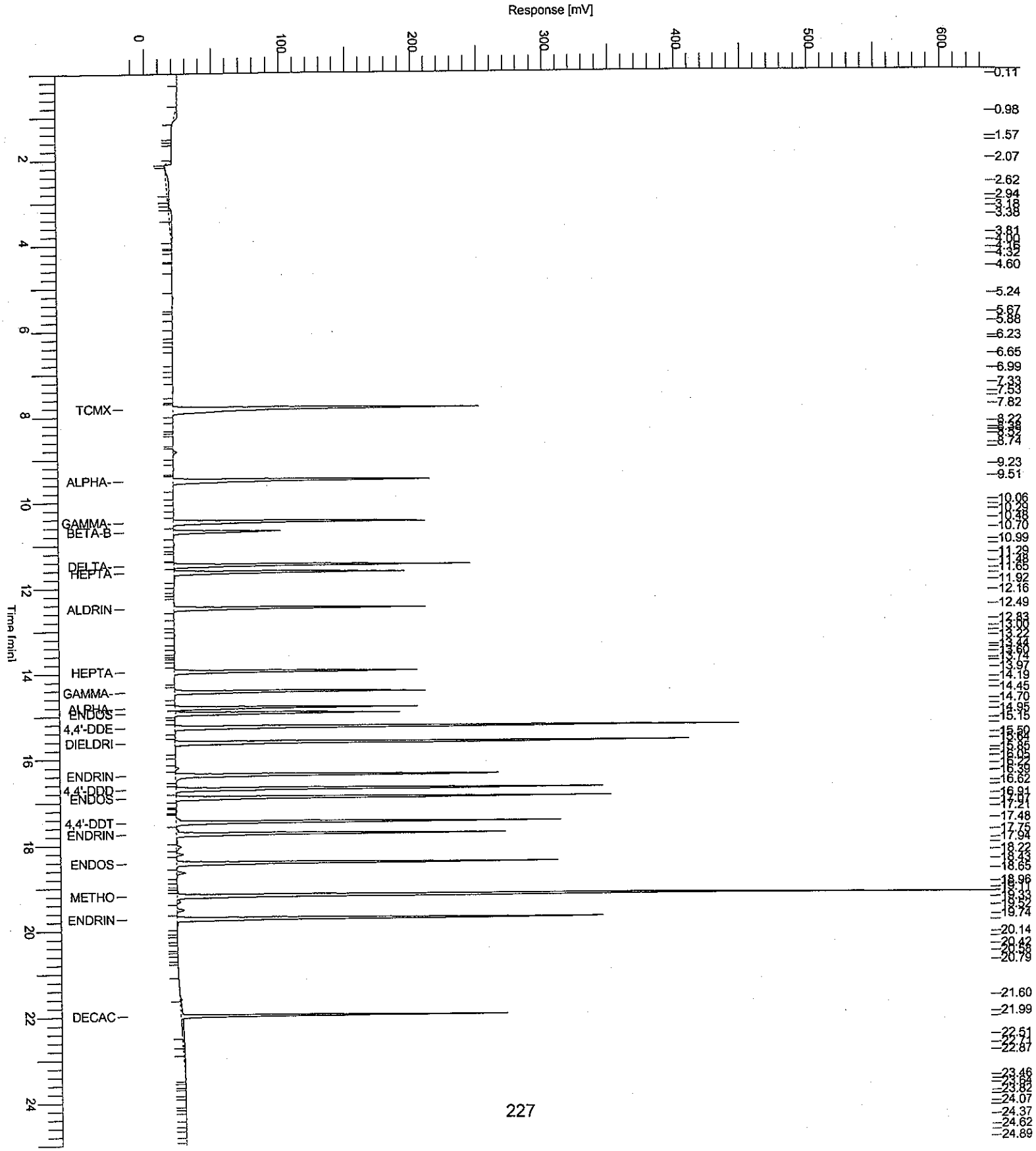
GC21 Rtx-CLPesticides2

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
ileName : G:\gc21\CHb\335b012.raw
ate : 12/1/04 1:36:33 PM
lethod :
Time of Injection: 11/30/04 11:18:25 PM
tart Time : 0.00 min Ehd Time : 25.00 min Low Point : -18.74 mV High Point : 633.33 mV
lot Offset: -18.74 mV Plot Scale: 652.1 mV



GC21 Rtx-CLPesticides2

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
leName : G:\gc21\CHb\335b012
ate : 12/1/04 12:04:12 PM
ethod : gc21ins Time of Injection: 11/30/04 11:18:25 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -17.11 mV High Point : 633.33 mV
cale Factor: 1.0 Plot Offset: -17.11 mV Plot Scale: 650.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 12/1/04 12:59:13 PM
Data Acquisition Time : 11/30/04 11:47:23 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a013p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.520	1527290.00	196.5447	1.000	1	196.54
alpha-BHC	10.180	1296130.74	106.2298	1.000	1	106.23
gamma-BHC	11.086	1141417.42	103.5373	1.000	1	103.54
beta-BHC	11.340	425976.09	89.8242	1.000	1	89.82
delta-BHC	11.837	1155370.55	106.1373	1.000	1	106.14
Heptachlor	12.411	1036698.00	98.2361	1.000	1	98.24
Aldrin	13.228	1058595.90	100.5953	1.000	1	100.60
Heptachlor epoxide	14.845	941092.00	97.9939	1.000	1	97.99
gamma-Chlordane	15.162	984690.50	101.1029	1.000	1	101.10
alpha-Chlordane	15.501	934706.00	99.7944	1.000	1	99.79
4,4'-DDE	15.688	2100458.00	222.2214	1.000	1	222.22
Endosulfan I	15.864	836321.50	96.5766	1.000	1	96.58
Dieldrin	16.471	2096455.04	214.8329	1.000	1	214.83
Endrin	17.065	1540128.00	212.1840	1.000	1	212.18
4,4'-DDD	17.212	1652396.00	221.5032	1.000	1	221.50
Endosulfan II	17.633	1615478.31	213.7161	1.000	1	213.72
4,4'-DDT	17.904	1518492.19	210.1093	1.000	1	210.11
Endrin aldehyde	18.688	1259987.01	199.4758	1.000	1	199.48
Methoxychlor	19.098	2830213.97	927.1292	1.000	1	927.13
Endosulfan sulfate	19.784	1425955.38	215.0241	1.000	1	215.02
Endrin ketone	20.431	1561915.24	214.8649	1.000	1	214.86
Decachlorobiphenyl	22.100	1207097.19	234.2198	1.000	1	234.22
		30146865.02	4281.8534			4281.85

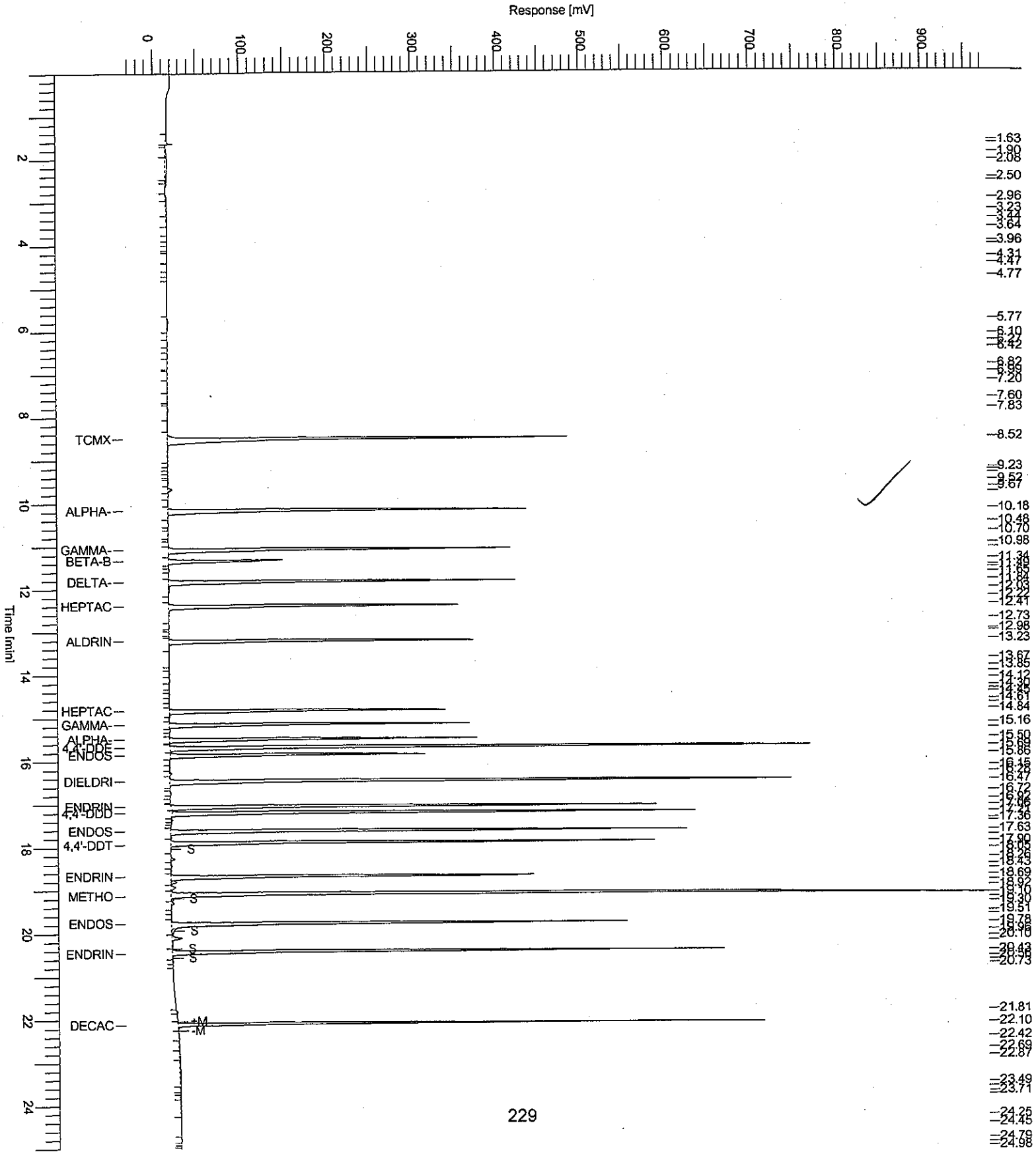
12/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHA\335a013p.TX0

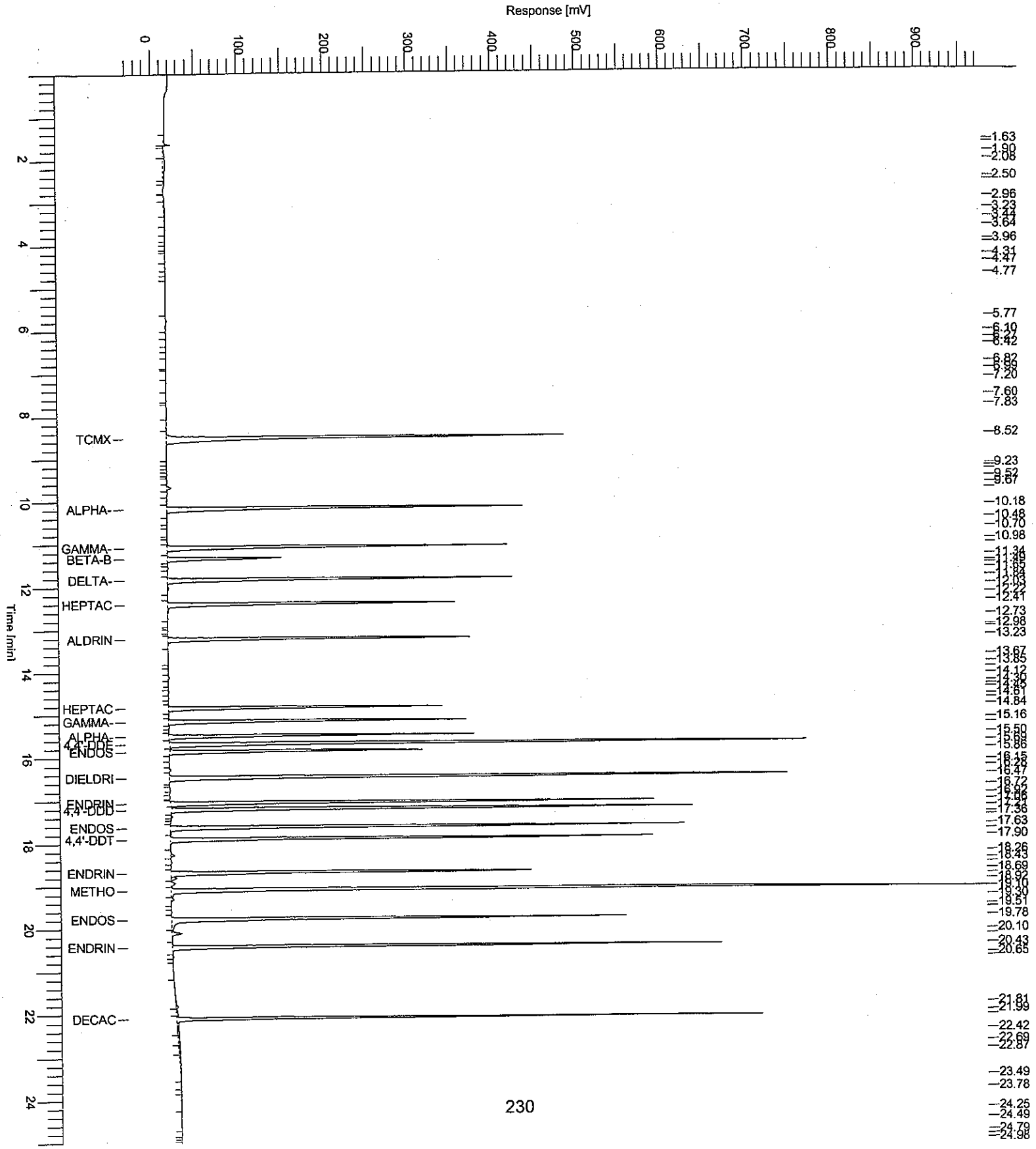
GC21 Rtx-CLPesticides

Sample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
FileName : G:\gc21\CHA\335a013.raw
Date : 12/1/04 12:59:18 PM
Method :
Time of Injection: 11/30/04 11:47:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -36.75 mV High Point : 977.92 mV
Plot Offset: -36.75 mV Plot Scale: 1014.7 mV



GC21 Rtx-CLPesticides

Sample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
FileName : G:\gc21\CHA\335a013.raw
Date : 12/1/04 12:03:40 PM
Method : gc21ins Time of Injection: 11/30/04 11:47:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -34.21 mV High Point : 977.92 mV
Scale Factor: 1.0 Plot Offset: -34.21 mV Plot Scale: 1012.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 13

Date : 12/1/04 1:39:19 PM
Data Acquisition Time : 11/30/04 11:47:23 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b013p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.821	1702623.50	231.2461	1.000	1	231.25
alpha-BHC	9.515	1329969.00	115.9223	1.000	1	115.92
gamma-BHC	10.482	1165317.50	116.4223	1.000	1	116.42
beta-BHC	10.702	436766.50	109.3227	1.000	1	109.32
delta-BHC	11.486	1198765.00	119.8172	1.000	1	119.82
Heptachlor	11.652	951347.83	110.2859	1.000	1	110.29
Aldrin	12.495	1042473.30	118.1772	1.000	1	118.18
Heptachlor epoxide	13.972	944284.00	119.1229	1.000	1	119.12
gamma-Chlordane	14.450	993618.00	124.7728	1.000	1	124.77
alpha-Chlordane	14.822	926931.50	122.9451	1.000	1	122.95
Endosulfan I	14.952	843534.00	118.0430	1.000	1	118.04
4,4'-DDE	15.283	2080002.43	269.3056	1.000	1	269.31
Dieldrin	15.644	2010434.01	257.9704	1.000	1	257.97
Endrin	16.396	1355783.98	243.4280	1.000	1	243.43
4,4'-DDD	16.715	1665307.29	262.5499	1.000	1	262.55
Endosulfan II	16.917	1702689.21	254.4540	1.000	1	254.45
4,4'-DDT	17.485	1485195.96	252.3413	1.000	1	252.34
Endrin aldehyde	17.756	1323287.19	250.5469	1.000	1	250.55
Endosulfan sulfate	18.436	1538554.96	264.9853	1.000	1	264.99
Methoxychlor	19.203	2632229.79	1104.1935	1.000	1	1104.19
Endrin ketone	19.746	1770709.39	240.1362	1.000	1	240.14
Decachlorobiphenyl	21.986	1028192.91	253.8154	1.000	1	253.82
		30128017.26	5059.8039			5059.80

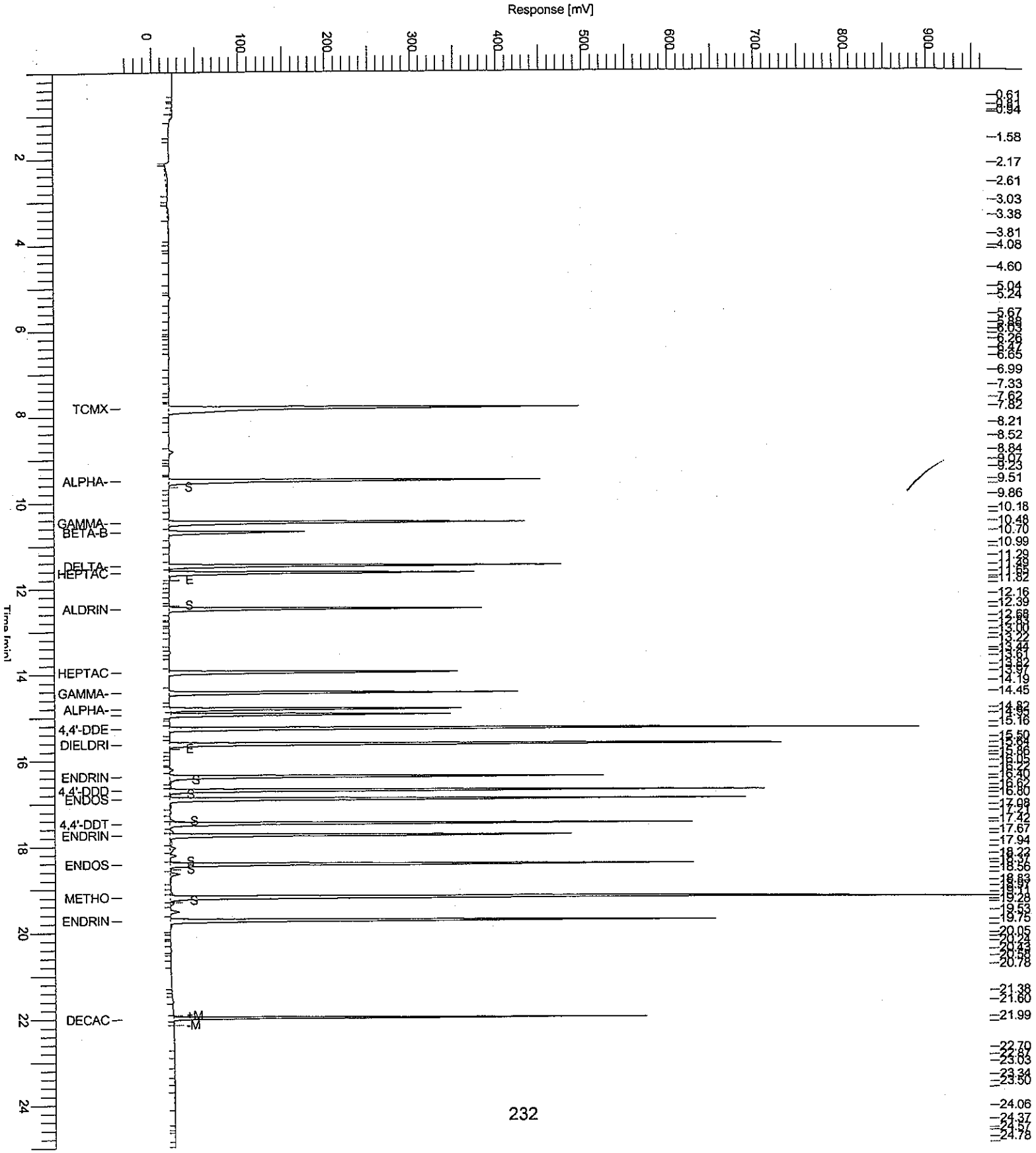
GJ 12/1/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHB\335b013p.TX0

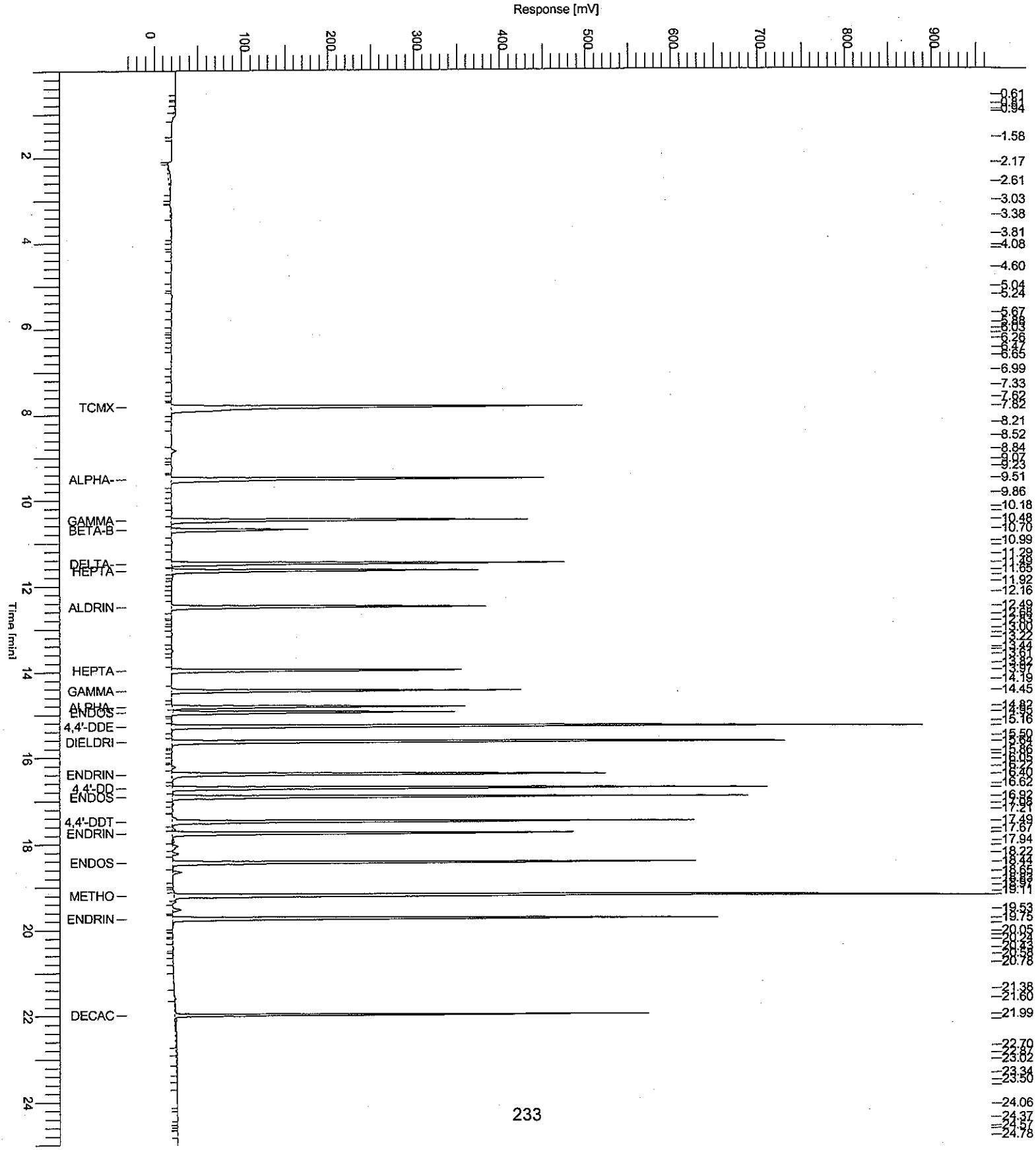
GC21 Rtx-CLPesticides2

ample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
ileName : G:\gc21\CHb\335b013.raw
ate : 12/1/04 1:39:25 PM
ethod :
Time of Injection: 11/30/04 11:47:23 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -35.34 mV High Point : 967.00 mV
lot Offset: -35.34 mV Plot Scale: 1002.3 mV



GC21 Rtx-CLPesticides2

ample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
ileName : G:\gc21\CHb\335b013
ate : 12/1/04 12:04:17 PM
lethod : gc21ins Time of Injection: 11/30/04 11:47:23 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -32.84 mV High Point : 967.00 mV
cale Factor: 1.0 Plot Offset: -32.84 mV Plot Scale: 999.8 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : icv
Seqnum : 244483653016 Filename : 335_016 Injected : 01-DEC-2004 01:14
Calnum : 244483653001 Caldate : 30-NOV-2004 Caltype :
Standards: 04WS2099

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	24.44641	pg	-2	15	
gamma-BHC	A	25.00000	24.52738	pg	-2	15	
beta-BHC	A	25.00000	23.88299	pg	-4	15	
delta-BHC	A	25.00000	24.17940	pg	-3	15	
Heptachlor	A	25.00000	25.02348	pg	0	15	
Aldrin	A	25.00000	25.03885	pg	0	15	
Heptachlor epoxide	A	25.00000	23.93896	pg	-4	15	
gamma-Chlordane	A	25.00000	23.73419	pg	-5	15	
alpha-Chlordane	A	25.00000	24.14601	pg	-3	15	
4,4'-DDE	A	25.00000	23.64692	pg	-5	15	
Endosulfan I	A	25.00000	24.29704	pg	-3	15	
Dieldrin	A	25.00000	24.01235	pg	-4	15	
Endrin	A	25.00000	24.10389	pg	-4	15	
4,4'-DDD	A	25.00000	24.45167	pg	-2	15	
Endosulfan II	A	25.00000	23.98254	pg	-4	15	
4,4'-DDT	A	25.00000	23.63990	pg	-5	15	
Endrin aldehyde	A	25.00000	22.56670	pg	-10	15	
Methoxychlor	A	25.00000	26.37233	pg	5	15	
Endosulfan sulfate	A	25.00000	24.12708	pg	-3	15	
Endrin ketone	A	25.00000	24.32901	pg	-3	15	
TCMX	A	25.00000	29.67760	pg	19	15	N/A
Decachlorobiphenyl	A	25.00000	26.08937	pg	4	15	
alpha-BHC	B	25.00000	23.09589	pg	-8	15	
gamma-BHC	B	25.00000	23.39448	pg	-6	15	
beta-BHC	B	25.00000	23.51484	pg	-6	15	
delta-BHC	B	25.00000	23.36821	pg	-7	15	
Heptachlor	B	25.00000	23.66350	pg	-5	15	
Aldrin	B	25.00000	23.92713	pg	-4	15	
Heptachlor epoxide	B	25.00000	23.19011	pg	-7	15	
gamma-Chlordane	B	25.00000	22.86422	pg	-9	15	
alpha-Chlordane	B	25.00000	23.34286	pg	-7	15	
4,4'-DDE	B	25.00000	22.94093	pg	-8	15	
Endosulfan I	B	25.00000	23.65892	pg	-5	15	
Dieldrin	B	25.00000	23.25392	pg	-7	15	
Endrin	B	25.00000	22.67099	pg	-9	15	
4,4'-DDD	B	25.00000	23.68763	pg	-5	15	
Endosulfan II	B	25.00000	23.53110	pg	-6	15	
4,4'-DDT	B	25.00000	22.59100	pg	-10	15	
Endrin aldehyde	B	25.00000	21.91464	pg	-12	15	
Methoxychlor	B	25.00000	24.97657	pg	0	15	
Endosulfan sulfate	B	25.00000	23.04608	pg	-8	15	
Endrin ketone	B	25.00000	23.32327	pg	-7	15	
TCMX	B	25.00000	28.67457	pg	15	15	N/A
Decachlorobiphenyl	B	25.00000	24.86089	pg	-1	15	

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Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws2099
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 12/1/04 3:50:27 PM
Data Acquisition Time : 12/1/04 1:14:18 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a016p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.523	228569.50	29.6776	1.000	1	29.68
alpha-BHC	10.182	304497.60	24.4464	1.000	1	24.45
gamma-BHC	11.089	276218.75	24.5274	1.000	1	24.53
beta-BHC	11.347	117498.48	23.8830	1.000	1	23.88
delta-BHC	11.839	286203.90	24.1794	1.000	1	24.18
Heptachlor	12.413	255654.00	25.0235	1.000	1	25.02
Aldrin	13.230	265188.00	25.0389	1.000	1	25.04
Heptachlor epoxide	14.847	236131.50	23.9390	1.000	1	23.94
gamma-Chlordane	15.164	236166.00	23.7342	1.000	1	23.73
alpha-Chlordane	15.503	231896.50	24.1460	1.000	1	24.15
4,4'-DDE	15.696	231032.00	23.6469	1.000	1	23.65
Endosulfan I	15.865	219216.00	24.2970	1.000	1	24.30
Dieldrin	16.478	242975.15	24.0124	1.000	1	24.01
Endrin	17.066	186870.45	24.1039	1.000	1	24.10
4,4'-DDD	17.214	197887.68	24.4517	1.000	1	24.45
Endosulfan II	17.634	199517.88	23.9825	1.000	1	23.98
4,4'-DDT	17.911	161169.00	23.6399	1.000	1	23.64
Endrin aldehyde	18.695	152064.54	22.5667	1.000	1	22.57
Methoxychlor	19.100	78382.27	26.3723	1.000	1	26.37
Endosulfan sulfate	19.786	172105.00	24.1271	1.000	1	24.13
Endrin ketone	20.433	194873.50	24.3290	1.000	1	24.33
Decachlorobiphenyl	22.101	137999.10	26.0894	1.000	1	26.09
		4612116.81	540.2141			540.21

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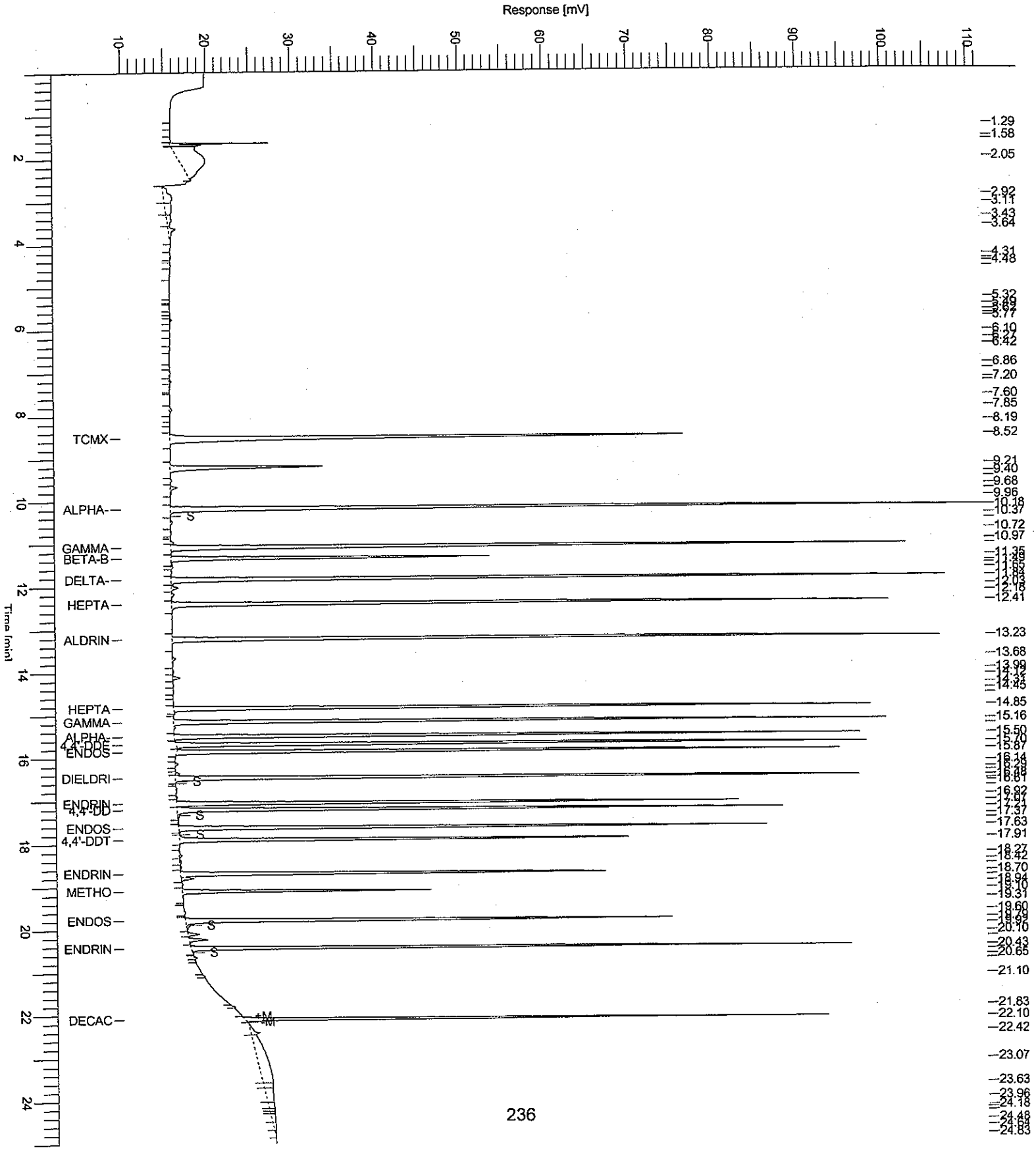
Report stored in ASCII file: G:\gc21\CHA\335a016p.TX0

GC21 Rtx-CLPesticides

ample Name : x,icv,04ws2099 Sample #: 25ug/L Page 1 of 1
ileName : G:\gc21\CHa\335a016.raw
ate : 12/1/04 3:50:32 PM
lethod :
Time of Injection: 12/1/04 1:14:18 AM
tart Time : 0.00 min Ehd Time : 25.00 min Low Point : 9.76 mV High Point : 111.81 mV
lot Offset: 9.76 mV . Rlot Scale: 102.1 mV

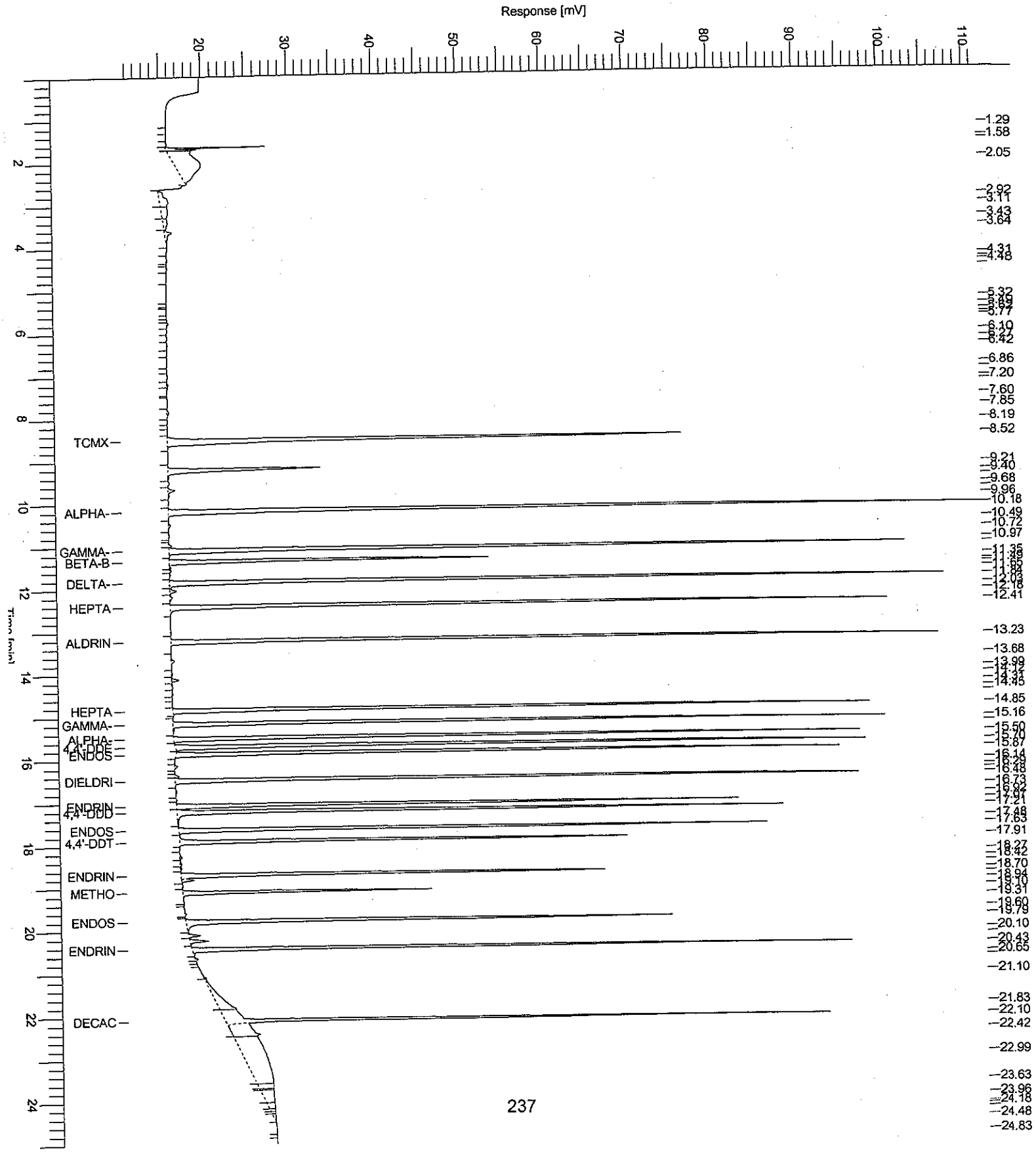


GC21 Rtx-CLPesticides

ample Name : x,icv,04ws2099
ileName : G:\gc21\CHa\335a016.raw
ate : 12/1/04 1:43:38 PM
lethod : gc21ins
tart Time : 0.00 min
cale Factor: 1.0

Sample #: 25ug/L

Time of Injection: 12/1/04 1:14:18 AM
End Time : 25.00 min
Low Point : 10.01 mV
High Point : 111.81 mV
Plot Offset: 10.01 mV
Plot Scale: 101.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,icv,04ws2099
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 12/1/04 3:47:58 PM
Data Acquisition Time : 12/1/04 1:14:18 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b016p.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.824	243876.53	28.6746	1.000	1	28.67
alpha-BHC	9.516	302313.50	23.0959	1.000	1	23.10
gamma-BHC	10.483	270607.63	23.3945	1.000	1	23.39
beta-BHC	10.704	113744.14	23.5148	1.000	1	23.51
delta-BHC	11.487	282639.50	23.3682	1.000	1	23.37
Heptachlor	11.653	228233.19	23.6635	1.000	1	23.66
Aldrin	12.496	254687.68	23.9271	1.000	1	23.93
Heptachlor epoxide	13.978	228267.00	23.1901	1.000	1	23.19
gamma-Chlordane	14.451	230707.50	22.8642	1.000	1	22.86
alpha-Chlordane	14.828	223976.00	23.3429	1.000	1	23.34
Endosulfan I	14.953	212940.50	23.6589	1.000	1	23.66
4,4'-DDE	15.284	229452.60	22.9409	1.000	1	22.94
Dieldrin	15.645	230742.60	23.2539	1.000	1	23.25
Endrin	16.397	160610.38	22.6710	1.000	1	22.67
4,4'-DDD	16.716	196948.35	23.6876	1.000	1	23.69
Endosulfan II	16.918	201878.54	23.5311	1.000	1	23.53
4,4'-DDT	17.486	153283.31	22.5910	1.000	1	22.59
Endrin aldehyde	17.762	149468.03	21.9146	1.000	1	21.91
Endosulfan sulfate	18.437	173272.80	23.0461	1.000	1	23.05
Methoxychlor	19.203	70736.29	24.9766	1.000	1	24.98
Endrin ketone	19.747	217218.71	23.3233	1.000	1	23.32
Decachlorobiphenyl	21.987	124657.98	24.8609	1.000	1	24.86
		4500262.76	519.4918			519.49

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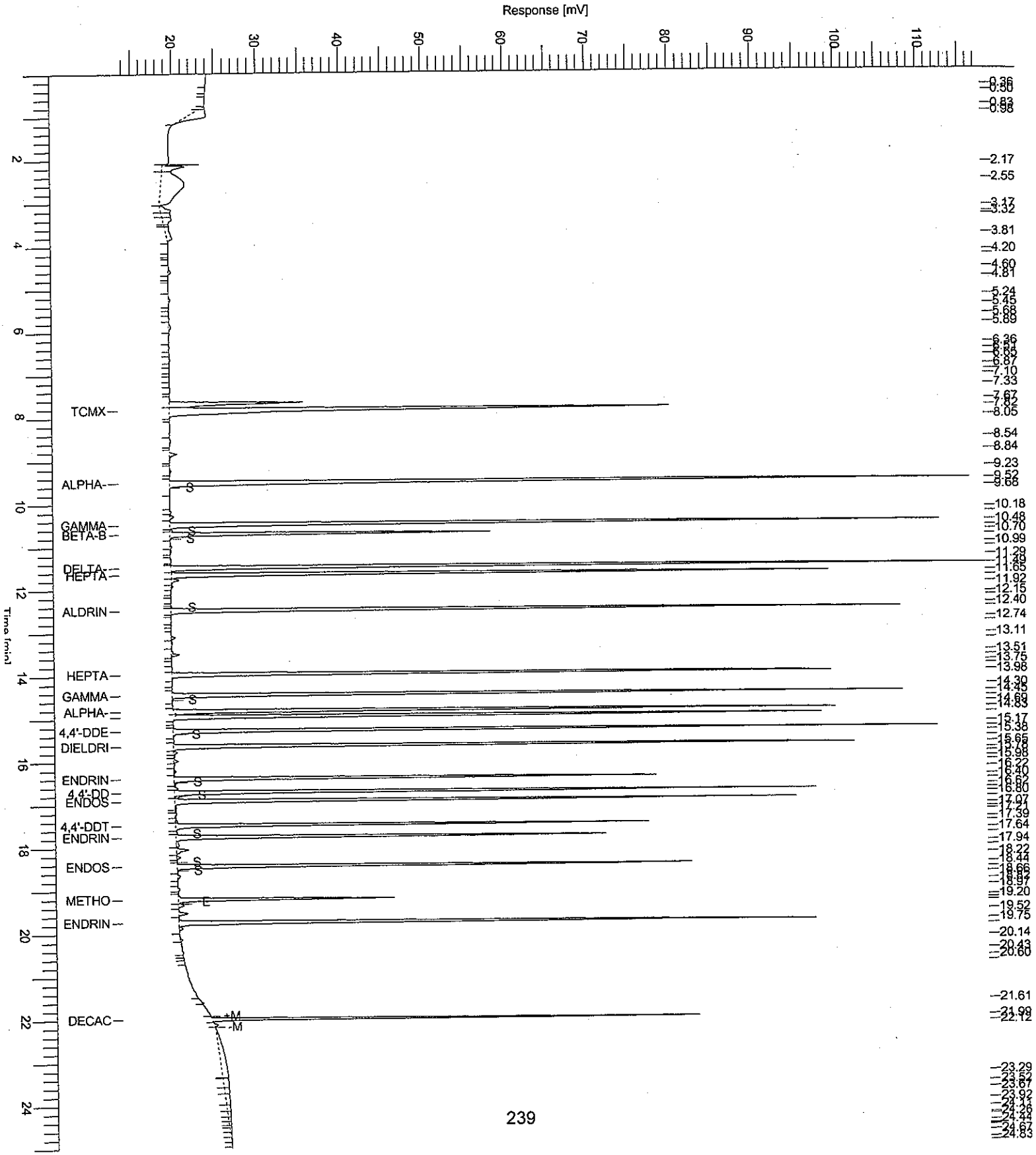
Report stored in ASCII file: G:\gc21\CHB\335b016p.TX0

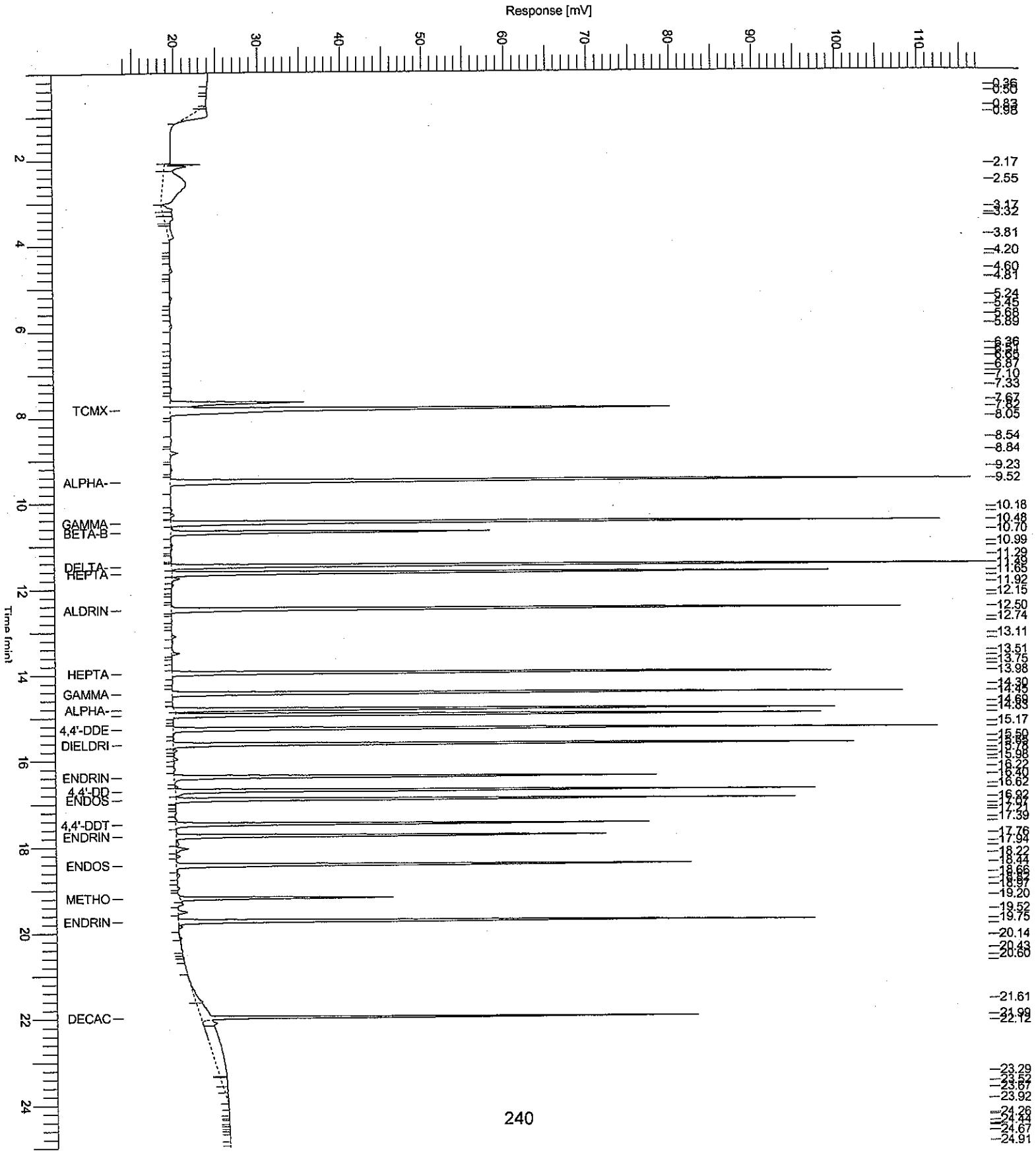
GC21 Rtx-CLPesticides2

ample Name : x,icv,04ws2099 Sample #: 25ug/L Page 1 of 1
leName : G:\gc21\CHb\335b016.raw
ate : 12/1/04 3:48:04 PM
ethod :
Time of Injection: 12/1/04 1:14:18 AM
lart Time : 0.00 min End Time : 25.00 min Low Point : 13.20 mV High Point : 117.87 mV
lot Offset: 13.20 mV Plot Scale: 104.7 mV



GC21 Rtx-CLPesticides2

ample Name : x,icv,04ws2099 Sample #: 25ug/L Page 1 of 1
ileName : G:\gc21\CHb\335b016
ate : 12/1/04 1:43:21 PM
lethod : gc21ins Time of Injection: 12/1/04 1:14:18 AM
tart Time : 0.00 min Ehd Time : 25.00 min Low Point : 13.46 mV High Point : 117.87 mV
cale Factor: 1.0 Plot Offset: 13.46 mV Plot Scale: 104.4 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244483653018 Run Name: Injected: 01-DEC-2004 12:23
Filename: 335_018 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	385208.75
Endrin aldehyde	A	7943.08
Endrin ketone	A	15822.5

Endrin Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	757756
4,4'-DDE	A	8467.2
4,4'-DDD	A	32335.25

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	315614.36
Endrin aldehyde	B	12540.38
Endrin ketone	B	36830

Endrin Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	669095.76
4,4'-DDE	B	3384
4,4'-DDD	B	44905.06

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

12/1/04

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 12/1/04 1:43:40 PM
Data Acquisition Time : 12/1/04 12:23:16 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\335a018.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.519	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.200	109808.85	8.8159	1.000	1	8.82
gamma-BHC	11.106	103457.00	9.1867	1.000	1	9.19
beta-BHC	11.364	47418.00	9.6383	1.000	1	9.64
delta-BHC	11.862	1714.00	0.1448	1.000	1	0.14
Heptachlor	12.420	377.35	0.0369	1.000	1	0.04
Aldrin	13.253	868.62	0.0820	1.000	1	0.08
Heptachlor epoxide	14.845	2395.27	0.2428	1.000	1	0.24
gamma-Chlordane	15.158	0.00	0.0000	1.000	1	0.00
alpha-Chlordane	15.520	4231.56	0.4406	1.000	1	0.44
4,4'-DDE	15.703	8467.20	0.8666	1.000	1	0.87
Endosulfan I	15.868	2812.14	0.3117	1.000	1	0.31
Dieldrin	16.514	887.08	0.0877	1.000	1	0.09
Endrin	17.080	385208.75	49.6870	1.000	1	49.69
4,4'-DDD	17.221	32335.25	3.9955	1.000	1	4.00
Endosulfan II	17.604	9695.00	1.1654	1.000	1	1.17
4,4'-DDT	17.918	757756.00	111.1459	1.000	1	111.15
Endrin aldehyde	18.703	7943.08	1.1788	1.000	1	1.18
Methoxychlor	19.105	760535.70	255.8882	1.000	1	255.89
Endosulfan sulfate	19.797	719.50	0.1009	1.000	1	0.10
Endrin ketone	20.438	15822.50	1.9754	1.000	1	1.98
Decachlorobiphenyl	22.105	18501.17	3.4977	1.000	1	3.50
		2270954.02	458.4887			458.49

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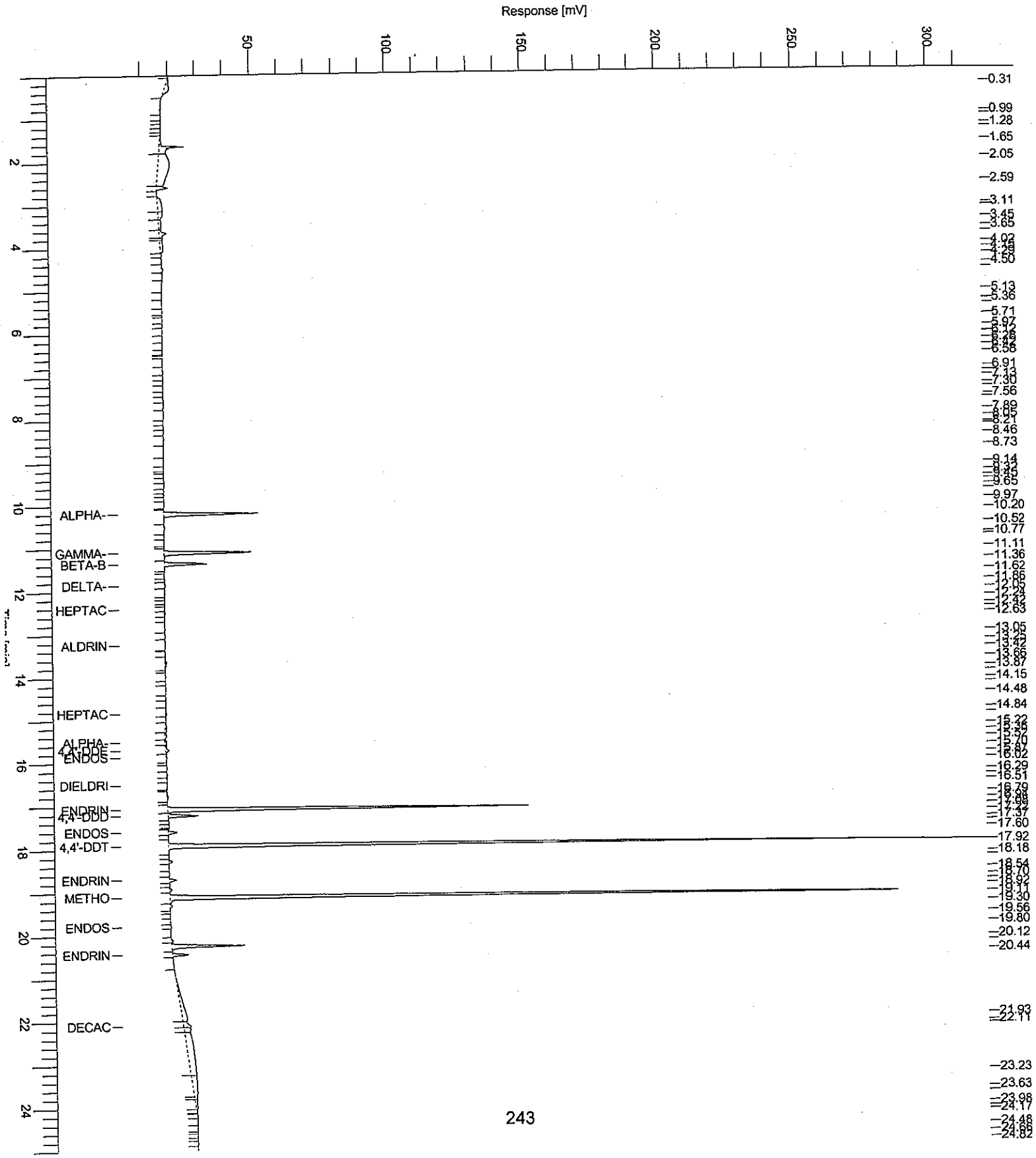
Report stored in ASCII file: G:\gc21\CHA\335a018.TX0

GC21 Rtx-CLPesticides

ımple Name : pem,04ws2193 Sample #: 10-250ug/l Page 1 of 1
eName : G:\gc21\CHa\335a018.raw
ate : 12/1/04 1:43:43 PM
ethod : gc21ins Time of Injection: 12/1/04 12:23:16 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 0.56 mV High Point : 319.64 mV
cale Factor: 1.0 Plot Offset: 0.56 mV Plot Scale: 319.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 12/1/04 1:43:24 PM
Data Acquisition Time : 12/1/04 12:23:16 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\335b018.rst
Sequence File : G:\gc21\files\335.seq

PEST GC21 CHANNEL B METH. 8081

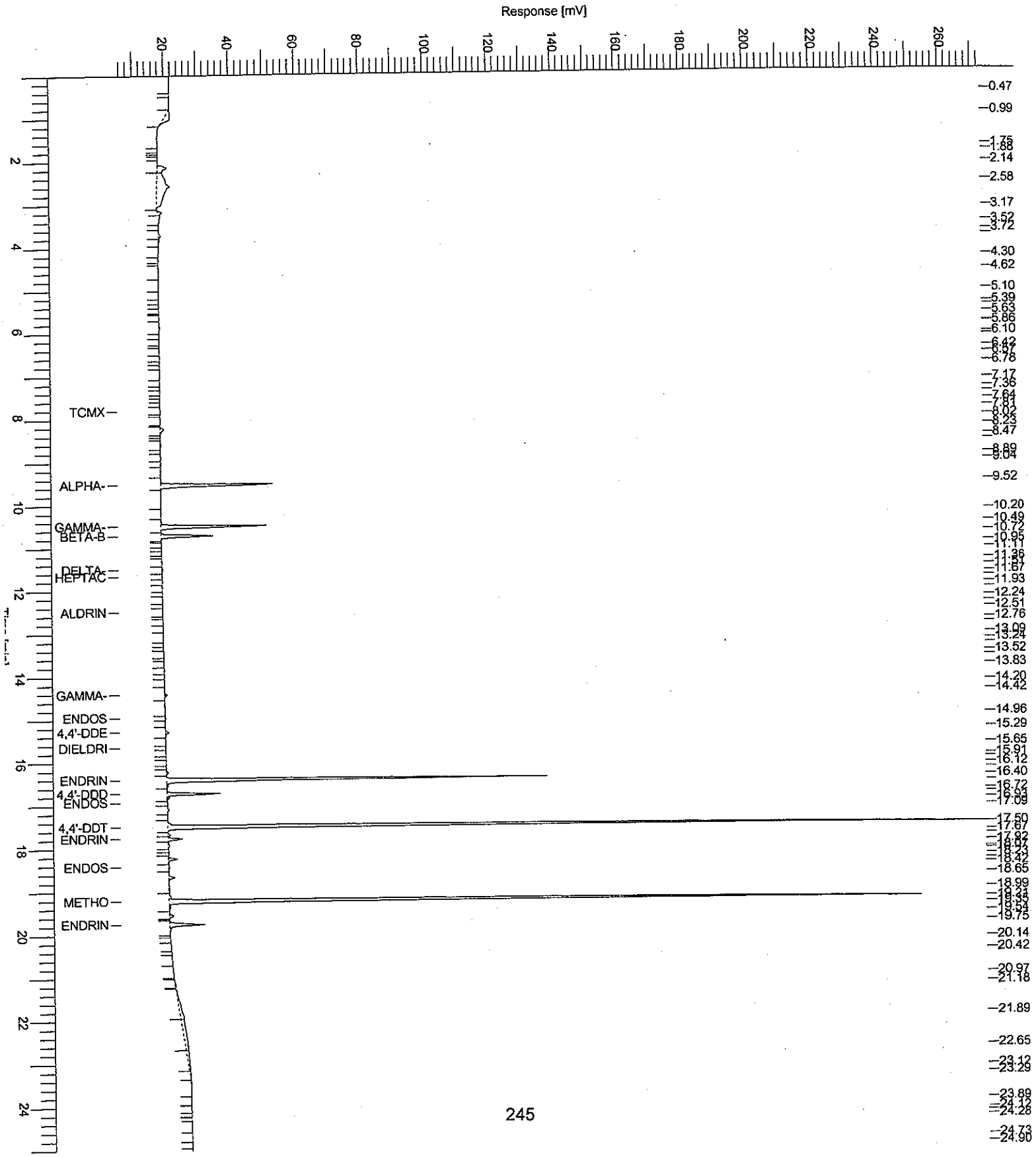
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.812	420.00	0.0494	1.000	1	0.05
alpha-BHC	9.523	117065.00	8.9434	1.000	1	8.94
gamma-BHC	10.491	107487.27	9.2925	1.000	1	9.29
beta-BHC	10.716	47594.50	9.8394	1.000	1	9.84
delta-BHC	11.507	1276.53	0.1055	1.000	1	0.11
Heptachlor	11.672	688.53	0.0714	1.000	1	0.07
Aldrin	12.506	258.77	0.0243	1.000	1	0.02
Heptachlor epoxide	13.970	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	14.416	2532.34	0.2510	1.000	1	0.25
alpha-Chlordane	14.821	0.00	0.0000	1.000	1	0.00
Endosulfan I	14.956	728.00	0.0809	1.000	1	0.08
4,4'-DDE	15.289	3384.00	0.3383	1.000	1	0.34
Dieldrin	15.654	187.50	0.0189	1.000	1	0.02
Endrin	16.402	315614.36	44.5506	1.000	1	44.55
4,4'-DDD	16.720	44905.06	5.4009	1.000	1	5.40
Endosulfan II	16.931	710.35	0.0828	1.000	1	0.08
4,4'-DDT	17.496	669095.76	98.6118	1.000	1	98.61
Endrin aldehyde	17.767	12540.38	1.8386	1.000	1	1.84
Endosulfan sulfate	18.425	1886.85	0.2510	1.000	1	0.25
Methoxychlor	19.212	626305.11	221.1447	1.000	1	221.14
Endrin ketone	19.749	36830.00	3.9545	1.000	1	3.95
Decachlorobiphenyl	21.986	0.00	0.0000	1.000	1	0.00
		1989510.33	404.8499			404.85

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHB\335b018.TX0

GC21 Rtx-CLPesticides2

ımple Name : pem,04ws2193 Sample #: 10-250ug/l Page 1 of 1
eName : G:\gc21\CHb\335b018
ıte : 12/1/04 1:43:26 PM
ethod : gc21ins Time of Injection: 12/1/04 12:23:16 PM
art Time : 0.00 min End Time : 25.00 min Low Point : 4.78 mV High Point : 273.00 mV
cale Factor: 1.0 Plot Offset: 4.78 mV Plot Scale: 268.2 mV



Turbochrom Method File G:\gc23\Files\8081a317.mth
Printed by : analyst on: 11/15/04 12:12:26 PM
Created by : analyst on: 11/12/04 5:17:29 PM
Edited by : analyst on: 11/15/04 12:12:23 PM
Number of Times Edited : 2
Number of Times Calibrated : 147
Description: GC23

11/15/04

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

11/15/04

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 6.579 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	47651.62	13793.51	----------	----------	1
2	10.0000	112474.00	34010.59	----------	----------	1
3	20.0000	213941.25	59168.39	----------	----------	1
4	40.0000	368950.50	106322.56	----------	----------	1
5	50.0000	507232.23	145778.66	----------	----------	1
6	100.0000	1010204.75	295221.28	----------	----------	1
7	200.0000	2360316.63	705599.41	----------	----------	1

Average Calibration Factor = 10732.772437 (%RSD = 9.18)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 8.131 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	36000.40	11065.63	----------	----------	1
2	5.0000	87577.83	27947.84	----------	----------	1
3	10.0000	168369.61	50264.57	----------	----------	1
4	20.0000	299329.33	89369.71	----------	----------	1
5	25.0000	412694.52	124604.52	----------	----------	1
6	50.0000	818938.87	248031.64	----------	----------	1
7	100.0000	2053002.29	643968.37	----------	----------	1

Average Calibration Factor = 17247.967761 (%RSD = 10.07)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 8.997 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	33959.71	10108.53	----------	----------	1
2	5.0000	81833.20	25638.40	----------	----------	1
3	10.0000	149507.80	45414.92	----------	----------	1
4	20.0000	264565.00	79987.98	----------	----------	1
5	25.0000	368406.79	111244.87	----------	----------	1
6	50.0000	703188.20	213357.73	----------	----------	1
7	100.0000	1836857.11	577639.64	----------	----------	1

Average Calibration Factor = 15527.733132 (%RSD = 11.54)

beta-BHC

Component Type : Single Peak Component
Retention Time : 9.266 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	15890.90	4621.13	----------	----------	1
2	5.0000	36570.96	11506.22	----------	----------	1
3	10.0000	64228.33	20017.03	----------	----------	1
4	20.0000	110122.91	33794.43	----------	----------	1
5	25.0000	152047.50	47324.24	----------	----------	1
6	50.0000	269215.82	81854.76	----------	----------	1
7	100.0000	660673.36	212597.60	----------	----------	1

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Average Calibration Factor = 6465.938944 (%RSD = 14.35)

delta-BHC
Component Type : Single Peak Component
Retention Time : 9.725 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	35158.03	10301.03	----------	----------	1
2	5.0000	83477.22	25666.92	----------	----------	1
3	10.0000	149121.17	45163.99	----------	----------	1
4	20.0000	259672.93	78485.91	----------	----------	1
5	25.0000	371077.95	114382.04	----------	----------	1
6	50.0000	705541.23	217896.75	----------	----------	1
7	100.0000	1851835.78	596629.84	----------	----------	1

Average Calibration Factor = 15663.217621 (%RSD = 12.69)

Heptachlor
Component Type : Single Peak Component
Retention Time : 10.263 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	29720.21	9052.85	----------	----------	1
2	5.0000	74516.82	23420.95	----------	----------	1
3	10.0000	133491.66	41112.11	----------	----------	1
4	20.0000	227217.21	69827.81	----------	----------	1
5	25.0000	324604.09	99797.17	----------	----------	1
6	50.0000	597027.18	184850.34	----------	----------	1
7	100.0000	1626583.15	512882.56	----------	----------	1

Average Calibration Factor = 13666.290864 (%RSD = 12.87)

Aldrin
Component Type : Single Peak Component
Retention Time : 11.037 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	31767.34	9738.94	----------	----------	1
2	5.0000	77461.97	23554.66	----------	----------	1
3	10.0000	139271.32	42661.21	----------	----------	1
4	20.0000	235579.88	72484.94	----------	----------	1
5	25.0000	339304.50	107895.07	----------	----------	1
6	50.0000	619965.60	197601.27	----------	----------	1
7	100.0000	1652559.66	549524.32	----------	----------	1

Average Calibration Factor = 14225.611096 (%RSD = 12.67)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 12.623 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	30107.21	9287.22	----------	----------	1
2	5.0000	71542.88	22575.38	----------	----------	1
3	10.0000	128289.00	39613.46	----------	----------	1
4	20.0000	213467.00	66609.61	----------	----------	1
5	25.0000	313149.07	99685.00	----------	----------	1
6	50.0000	557605.57	179020.42	----------	----------	1
7	100.0000	1502653.11	501552.80	----------	----------	1

Average Calibration Factor = 13081.290586 (%RSD = 13.63)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 12.937 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	30098.04	9280.59	----------	----------	1
2	5.0000	72180.61	22633.54	----------	----------	1
3	10.0000	127392.26	40179.17	----------	----------	1
4	20.0000	213057.15	66796.57	----------	----------	1
5	25.0000	316793.07	102331.03	----------	----------	1
6	50.0000	563751.19	184508.43	----------	----------	1
7	100.0000	1560282.07	529164.80	----------	----------	1

Average Calibration Factor = 13203.827066 (%RSD = 14.30)

alpha-Chlordane
Component Type : Single Peak Component
Retention Time : 13.272 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	29931.14	9000.36	----------	----------	1
2	5.0000	73355.15	21314.70	----------	----------	1
3	10.0000	124080.84	37974.32	----------	----------	1
4	20.0000	204275.34	63892.41	----------	----------	1
5	25.0000	303718.00	98714.17	----------	----------	1
6	50.0000	533871.81	172310.03	----------	----------	1
7	100.0000	1465601.02	494441.27	----------	----------	1

Average Calibration Factor = 12820.087806 (%RSD = 15.41)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 13.528 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	56743.61	18101.85	----------	----------	1
2	10.0000	137594.39	43956.13	----------	----------	1
3	20.0000	246452.85	79336.77	----------	----------	1
4	40.0000	420476.81	138012.62	----------	----------	1
5	50.0000	674189.67	216185.87	----------	----------	1
6	100.0000	1244014.64	409569.70	----------	----------	1
7	200.0000	2761572.78	878577.05	----------	----------	1

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Average Calibration Factor = 12930.243979 (%RSD = 9.88)

Endosulfan I
Component Type : Single Peak Component
Retention Time : 13.599 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	26631.14	8718.41	----------	----------	1
2	5.0000	64309.04	21241.99	----------	----------	1
3	10.0000	114599.35	37572.53	----------	----------	1
4	20.0000	189634.12	61532.65	----------	----------	1
5	25.0000	279786.41	94035.51	----------	----------	1
6	50.0000	486912.61	164819.69	----------	----------	1
7	100.0000	1349730.57	462667.55	----------	----------	1

Average Calibration Factor = 11649.433668 (%RSD = 14.13)

Dieldrin
Component Type : Single Peak Component
Retention Time : 14.203 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	57404.50	18190.59	----------	----------	1
2	10.0000	140077.74	45108.70	----------	----------	1
3	20.0000	249490.98	79908.79	----------	----------	1
4	40.0000	426982.28	135639.47	----------	----------	1
5	50.0000	670494.53	221371.33	----------	----------	1
6	100.0000	1238881.14	412996.59	----------	----------	1
7	200.0000	2791791.75	891715.33	----------	----------	1

Average Calibration Factor = 13037.952236 (%RSD = 9.89)

Endrin
Component Type : Single Peak Component
Retention Time : 14.767 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	48948.38	15604.62	----------	----------	1
2	10.0000	119892.13	39039.11	----------	----------	1
3	20.0000	207284.56	67113.76	----------	----------	1
4	40.0000	342202.90	110350.87	----------	----------	1
5	50.0000	535332.46	175168.56	----------	----------	1
6	100.0000	989802.16	333272.90	----------	----------	1
7	200.0000	2374863.43	770588.36	----------	----------	1

Average Calibration Factor = 10803.513842 (%RSD = 12.35)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 15.013 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	46057.74	15057.52	----------	----------	1
2	10.0000	114751.36	37818.93	----------	----------	1
3	20.0000	197221.60	65458.19	----------	----------	1
4	40.0000	334174.45	112170.23	----------	----------	1
5	50.0000	525712.13	173833.27	----------	----------	1
6	100.0000	982929.57	335185.34	----------	----------	1
7	200.0000	2395007.10	769420.25	----------	----------	1

Average Calibration Factor = 10503.369609 (%RSD = 12.05)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 15.331 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	50799.82	16426.26	----------	----------	1
2	10.0000	124330.37	40317.50	----------	----------	1
3	20.0000	216889.58	69946.82	----------	----------	1
4	40.0000	356974.44	116715.16	----------	----------	1
5	50.0000	554917.23	180474.32	----------	----------	1
6	100.0000	1027471.64	342436.12	----------	----------	1
7	200.0000	2448919.04	777582.02	----------	----------	1

Average Calibration Factor = 11217.069597 (%RSD = 12.09)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 15.695 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	40097.85	12930.92	----------	----------	1
2	10.0000	104638.67	33972.61	----------	----------	1
3	20.0000	177276.95	57253.32	----------	----------	1
4	40.0000	294214.10	97622.97	----------	----------	1
5	50.0000	476603.06	153713.40	----------	----------	1
6	100.0000	887802.14	292406.95	----------	----------	1
7	200.0000	2288990.54	750401.58	----------	----------	1

Average Calibration Factor = 9508.937923 (%RSD = 13.83)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 16.378 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	42762.64	13571.08	----------	----------	1
2	10.0000	100873.42	31931.11	----------	----------	1
3	20.0000	165970.49	52589.03	----------	----------	1
4	40.0000	274916.59	87834.91	----------	----------	1
5	50.0000	418748.08	130487.18	----------	----------	1
6	100.0000	746451.26	238946.29	----------	----------	1
7	200.0000	1953797.61	615898.05	----------	----------	1

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Average Calibration Factor = 8793.986204 (%RSD = 16.15)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 16.931 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	89505.56	30367.05	----------	----------	1
2	50.0000	236558.45	79735.14	----------	----------	1
3	100.0000	386563.23	130827.25	----------	----------	1
4	200.0000	675356.35	234620.54	----------	----------	1
5	250.0000	1128928.54	388240.13	----------	----------	1
6	500.0000	1794450.44	606726.29	----------	----------	1
7	1000.0000	3288348.11	967177.72	----------	----------	1

Average Calibration Factor = 3977.403481 (%RSD = 14.89)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 17.448 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	45499.49	14450.83	----------	----------	1
2	10.0000	112000.28	35550.65	----------	----------	1
3	20.0000	184702.51	59102.96	----------	----------	1
4	40.0000	306050.64	98355.45	----------	----------	1
5	50.0000	476871.15	152160.43	----------	----------	1
6	100.0000	852755.65	279662.25	----------	----------	1
7	200.0000	2248434.41	713465.53	----------	----------	1

Average Calibration Factor = 9824.063330 (%RSD = 15.06)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 18.102 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	52136.94	16386.08	----------	----------	1
2	10.0000	131794.11	41436.04	----------	----------	1
3	20.0000	217410.62	69526.49	----------	----------	1
4	40.0000	364378.31	113964.28	----------	----------	1
5	50.0000	580328.10	186552.54	----------	----------	1
6	100.0000	1071200.17	351682.86	----------	----------	1
7	200.0000	2532430.02	802337.04	----------	----------	1

Average Calibration Factor = 11596.335610 (%RSD = 12.79)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 20.500 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	84427.00	31025.44	----------	----------	1
3	20.0000	154650.69	54369.14	----------	----------	1
4	40.0000	253162.80	92530.59	----------	----------	1
5	50.0000	389339.82	143246.05	----------	----------	1
6	100.0000	661586.41	248919.26	----------	----------	1
7	200.0000	1941243.13	738407.80	----------	----------	1
1	4.0000	33735.36	12449.46	----------	----------	1

Average Calibration Factor = 7863.860205 (%RSD = 14.67)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47651.62	13793.51	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112474.00	34010.59	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
213941.25	59168.39	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
368950.50	106322.56	40.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
507232.23	145778.66	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1010204.75	295221.28	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2360316.63	705599.41	200.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36000.40	11065.63	2.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
87577.83	27947.84	5.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
168369.61	50264.57	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
299329.33	89369.71	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
412694.52	124604.52	25.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
818938.87	248031.64	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2053002.29	643968.37	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : gamma-BHC
Level : 1

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33959.71	10108.53	2.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
81833.20	25638.40	5.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
149507.80	45414.92	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
264565.00	79987.98	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
368406.79	111244.87	25.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
703188.20	213357.73	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1836857.11	577639.64	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
15890.90	4621.13	2.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36570.96	11506.22	5.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64228.33	20017.03	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
110122.91	33794.43	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
152047.50	47324.24	25.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
269215.82	81854.76	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
660673.36	212597.60	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : delta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35158.03	10301.03	2.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
83477.22	25666.92	5.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
149121.17	45163.99	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
259672.93	78485.91	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
371077.95	114382.04	25.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
705541.23	217896.75	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1851835.78	596629.84	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Heptachlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29720.21	9052.85	2.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74516.82	23420.95	5.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
133491.66	41112.11	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
227217.21	69827.81	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
324604.09	99797.17	25.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
597027.18	184850.34	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1626583.15	512882.56	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
31767.34	9738.94	2.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
77461.97	23554.66	5.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
139271.32	42661.21	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
235579.88	72484.94	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
339304.50	107895.07	25.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
619965.60	197601.27	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1652559.66	549524.32	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30107.21	9287.22	2.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
71542.88	22575.38	5.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
128289.00	39613.46	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
213467.00	66609.61	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
313149.07	99685.00	25.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
557605.57	179020.42	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1502653.11	501552.80	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
30098.04	9280.59	2.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72180.61	22633.54	5.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
127392.26	40179.17	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
213057.15	66796.57	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
316793.07	102331.03	25.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
563751.19	184508.43	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1560282.07	529164.80	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
29931.14	9000.36	2.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
73355.15	21314.70	5.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124080.84	37974.32	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
204275.34	63892.41	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
303718.00	98714.17	25.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
533871.81	172310.03	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1465601.02	494441.27	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56743.61	18101.85	4.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
137594.39	43956.13	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
246452.85	79336.77	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
420476.81	138012.62	40.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
674189.67	216185.87	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1244014.64	409569.70	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2761572.78	878577.05	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Endosulfan I

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
26631.14	8718.41	2.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
64309.04	21241.99	5.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114599.35	37572.53	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
189634.12	61532.65	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
279786.41	94035.51	25.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
486912.61	164819.69	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1349730.57	462667.55	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Dieldrin

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
57404.50	18190.59	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
140077.74	45108.70	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
249490.98	79908.79	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
426982.28	135639.47	40.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
670494.53	221371.33	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1238881.14	412996.59	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2791791.75	891715.33	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48948.38	15604.62	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119892.13	39039.11	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
207284.56	67113.76	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
342202.90	110350.87	40.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
535332.46	175168.56	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
989802.16	333272.90	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2374863.43	770588.36	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : 4,4'-DDD
Level : 1

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
46057.74	15057.52	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
114751.36	37818.93	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
197221.60	65458.19	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
334174.45	112170.23	40.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
525712.13	173833.27	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
982929.57	335185.34	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2395007.10	769420.25	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Endosulfan II

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
50799.82	16426.26	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
124330.37	40317.50	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
216889.58	69946.82	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
356974.44	116715.16	40.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
554917.23	180474.32	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1027471.64	342436.12	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2448919.04	777582.02	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : 4,4'-DDT

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40097.85	12930.92	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
104638.67	33972.61	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
177276.95	57253.32	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
294214.10	97622.97	40.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
476603.06	153713.40	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
887802.14	292406.95	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2288990.54	750401.58	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Endrin aldehyde

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
42762.64	13571.08	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
100873.42	31931.11	10.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
165970.49	52589.03	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
274916.59	87834.91	40.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
418748.08	130487.18	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
746451.26	238946.29	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1953797.61	615898.05	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
89505.56	30367.05	20.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
236558.45	79735.14	50.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
386563.23	130827.25	100.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
675356.35	234620.54	200.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1128928.54	388240.13	250.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1794450.44	606726.29	500.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3288348.11	967177.72	1000.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45499.49	14450.83	4.0000	---------	---------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
112000.28	35550.65	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
184702.51	59102.96	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
306050.64	98355.45	40.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
476871.15	152160.43	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
852755.65	279662.25	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2248434.41	713465.53	200.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Endrin ketone
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
52136.94	16386.08	4.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
131794.11	41436.04	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
217410.62	69526.49	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
364378.31	113964.28	40.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
580328.10	186552.54	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1071200.17	351682.86	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

11/15/04 12:12:26 PM Method: G:\gc23\Files\8081a317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2532430.02	802337.04	200.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Component : Decachlorobiphenyl

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
84427.00	31025.44	10.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154650.69	54369.14	20.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
253162.80	92530.59	40.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
389339.82	143246.05	50.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
661586.41	248919.26	100.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1941243.13	738407.80	200.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a024p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
33735.36	12449.46	4.0000	----------	----------	11/15/04	12:12:05 PM	G:\gc23\CHA\317a018p.rst

Turbochrom Method File G:\gc23\Files\8081b317.mth
Printed by : analyst on: 11/15/04 12:36:30 PM
Created by : analyst on: 11/12/04 5:15:04 PM
Edited by : analyst on: 11/15/04 12:36:26 PM
Number of Times Edited : 2
Number of Times Calibrated : 136
Description: GC 23

Global Sample Information

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : No
Convert unknowns to concentration units : Yes
Reject outliers during calibration : No

Cl 11/15/04

An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06
First peak will be relative retention reference

Component Information

TCMX
Component Type : Single Peak Component
Retention Time : 6.906 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	63668.81	18503.89	----------	----------	1
2	10.0000	149937.00	43960.78	----------	----------	1
3	20.0000	275641.97	79688.60	----------	----------	1
4	40.0000	580063.00	175983.90	----------	----------	1
5	50.0000	723103.19	222124.63	----------	----------	1
6	100.0000	1530701.17	477431.38	----------	----------	1
7	200.0000	2866792.74	853772.67	----------	----------	1

Average Calibration Factor = 14756.802193 (%RSD = 4.78)

alpha-BHC
Component Type : Single Peak Component
Retention Time : 8.546 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

Mcs 11/15/04

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	47852.50	14913.40	----------	----------	1
2	5.0000	118087.57	36812.17	----------	----------	1
3	10.0000	222030.79	70411.80	----------	----------	1
4	20.0000	466203.23	151693.90	----------	----------	1
5	25.0000	582453.21	180878.53	----------	----------	1
6	50.0000	1284029.30	413153.52	----------	----------	1
7	100.0000	2497379.50	798462.67	----------	----------	1

Average Calibration Factor = 23858.501947 (%RSD = 4.83)

gamma-BHC

Component Type : Single Peak Component
Retention Time : 9.486 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	44834.93	14513.55	----------	----------	1
2	5.0000	108170.68	34879.65	----------	----------	1
3	10.0000	201830.17	65204.68	----------	----------	1
4	20.0000	417757.00	136091.61	----------	----------	1
5	25.0000	520834.00	172232.13	----------	----------	1
6	50.0000	1156935.00	394829.33	----------	----------	1
7	100.0000	2263136.00	760082.19	----------	----------	1

Average Calibration Factor = 21675.127025 (%RSD = 5.04)

beta-BHC

Component Type : Single Peak Component
Retention Time : 9.718 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	20832.36	6814.15	----------	----------	1
2	5.0000	48116.55	15861.33	----------	----------	1
3	10.0000	87904.92	28956.54	----------	----------	1
4	20.0000	172565.77	56884.85	----------	----------	1
5	25.0000	210759.66	69498.53	----------	----------	1
6	50.0000	428785.24	145117.14	----------	----------	1
7	100.0000	936174.50	328042.06	----------	----------	1

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Average Calibration Factor = 9118.015344 (%RSD = 7.90)

delta-BHC
Component Type : Single Peak Component
Retention Time : 10.482 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	45238.10	15108.92	----------	----------	1
2	5.0000	106665.00	36262.75	----------	----------	1
3	10.0000	199212.00	67879.34	----------	----------	1
4	20.0000	414919.00	143725.22	----------	----------	1
5	25.0000	519098.00	177482.35	----------	----------	1
6	50.0000	1156464.50	404214.11	----------	----------	1
7	100.0000	2240496.00	764552.50	----------	----------	1

Average Calibration Factor = 21559.624338 (%RSD = 5.47)

Heptachlor
Component Type : Single Peak Component
Retention Time : 10.621 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	35356.40	10694.31	----------	----------	1
2	5.0000	80051.50	25274.58	----------	----------	1
3	10.0000	151893.00	48243.03	----------	----------	1
4	20.0000	311950.00	99042.27	----------	----------	1
5	25.0000	386921.00	125941.03	----------	----------	1
6	50.0000	891348.00	303977.14	----------	----------	1
7	100.0000	1768263.00	591757.28	----------	----------	1

Average Calibration Factor = 16494.532805 (%RSD = 7.16)

Aldrin
Component Type : Single Peak Component
Retention Time : 11.437 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	41648.05	13569.28	----------	----------	1
2	5.0000	100907.04	32754.72	----------	----------	1
3	10.0000	189014.00	61934.64	----------	----------	1
4	20.0000	381459.00	125022.68	----------	----------	1
5	25.0000	480364.50	161329.23	----------	----------	1
6	50.0000	1068428.00	367790.93	----------	----------	1
7	100.0000	2029466.50	689394.74	----------	----------	1

Average Calibration Factor = 19979.655722 (%RSD = 4.73)

Heptachlor epoxide
Component Type : Single Peak Component
Retention Time : 12.909 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	39829.60	13003.82	----------	----------	1
2	5.0000	93471.77	30781.47	----------	----------	1
3	10.0000	182984.66	58655.71	----------	----------	1
4	20.0000	358693.32	118567.77	----------	----------	1
5	25.0000	456035.50	145139.71	----------	----------	1
6	50.0000	973778.99	326178.06	----------	----------	1
7	100.0000	1800301.11	593261.98	----------	----------	1

Average Calibration Factor = 18651.757048 (%RSD = 4.10)

gamma-Chlordane
Component Type : Single Peak Component
Retention Time : 13.381 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	40114.68	13330.70	----------	----------	1
2	5.0000	92675.31	31853.23	----------	----------	1
3	10.0000	174206.89	60208.49	----------	----------	1
4	20.0000	349609.45	121233.00	----------	----------	1
5	25.0000	439151.75	150959.89	----------	----------	1
6	50.0000	997476.12	348608.73	----------	----------	1
7	100.0000	1871749.91	629300.10	----------	----------	1

Average Calibration Factor = 18532.379134 (%RSD = 6.09)

alpha-Chlordane

Component Type : Single Peak Component
Retention Time : 13.751 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	38958.63	13098.75	----------	----------	1
2	5.0000	89971.25	30675.37	----------	----------	1
3	10.0000	170069.63	58114.80	----------	----------	1
4	20.0000	336668.37	115372.95	----------	----------	1
5	25.0000	424452.58	147116.42	----------	----------	1
6	50.0000	952210.17	337691.60	----------	----------	1
7	100.0000	1769953.30	618979.02	----------	----------	1

Average Calibration Factor = 17862.254994 (%RSD = 5.88)

Endosulfan I

Component Type : Single Peak Component
Retention Time : 13.868 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	2.0000	36898.44	12288.99	----------	----------	1
2	5.0000	85327.75	28787.10	----------	----------	1
3	10.0000	160606.37	54317.65	----------	----------	1
4	20.0000	316378.63	106985.10	----------	----------	1
5	25.0000	394826.42	134747.58	----------	----------	1
6	50.0000	883396.33	309119.91	----------	----------	1
7	100.0000	1617811.13	557686.00	----------	----------	1

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Average Calibration Factor = 16719.062137 (%RSD = 6.18)

4,4'-DDE
Component Type : Single Peak Component
Retention Time : 14.235 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	72505.64	25263.99	----------	----------	1
2	10.0000	174107.68	60883.50	----------	----------	1
3	20.0000	342064.51	120351.69	----------	----------	1
4	40.0000	746898.00	268995.12	----------	----------	1
5	50.0000	943512.29	342245.91	----------	----------	1
6	100.0000	1881393.15	669231.62	----------	----------	1
7	200.0000	2836181.84	942894.74	----------	----------	1

Average Calibration Factor = 17596.848520 (%RSD = 9.42)

Dieldrin
Component Type : Single Peak Component
Retention Time : 14.550 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	74570.79	25269.13	----------	----------	1
2	10.0000	177764.33	60585.96	----------	----------	1
3	20.0000	344739.78	118029.68	----------	----------	1
4	40.0000	744642.00	261393.28	----------	----------	1
5	50.0000	939984.88	330039.98	----------	----------	1
6	100.0000	1849081.99	638797.51	----------	----------	1
7	200.0000	2937091.09	940607.07	----------	----------	1

Average Calibration Factor = 17749.734520 (%RSD = 8.25)

Endrin
Component Type : Single Peak Component
Retention Time : 15.290 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	63715.69	20381.76	----------	----------	1
2	10.0000	147323.07	47242.05	----------	----------	1
3	20.0000	276360.97	90513.79	----------	----------	1
4	40.0000	562721.49	184609.38	----------	----------	1
5	50.0000	714707.81	243592.41	----------	----------	1
6	100.0000	1551499.70	512905.35	----------	----------	1
7	200.0000	2635662.97	858340.21	----------	----------	1

Average Calibration Factor = 14504.968987 (%RSD = 6.64)

4,4'-DDD
Component Type : Single Peak Component
Retention Time : 15.652 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	58723.66	19792.30	----------	----------	1
2	10.0000	136812.00	47455.35	----------	----------	1
3	20.0000	272987.76	93039.19	----------	----------	1
4	40.0000	551992.50	191463.52	----------	----------	1
5	50.0000	726084.50	257069.20	----------	----------	1
6	100.0000	1465674.00	522886.63	----------	----------	1
7	200.0000	2467291.00	861792.52	----------	----------	1

Average Calibration Factor = 13903.743026 (%RSD = 5.97)

Endosulfan II
Component Type : Single Peak Component
Retention Time : 15.815 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	65145.28	22049.91	----------	----------	1
2	10.0000	152494.00	51662.33	----------	----------	1
3	20.0000	293860.12	99440.53	----------	----------	1
4	40.0000	600918.00	208352.89	----------	----------	1
5	50.0000	775654.00	268591.17	----------	----------	1
6	100.0000	1565725.50	532309.41	----------	----------	1
7	200.0000	2646694.50	861872.04	----------	----------	1

Average Calibration Factor = 15093.640460 (%RSD = 6.38)

4,4'-DDT

Component Type : Single Peak Component
Retention Time : 16.415 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	51921.00	18297.37	----------	----------	1
2	10.0000	120685.30	42048.34	----------	----------	1
3	20.0000	245786.50	86063.81	----------	----------	1
4	40.0000	513697.56	182342.09	----------	----------	1
5	50.0000	677952.81	242159.46	----------	----------	1
6	100.0000	1445113.57	514399.31	----------	----------	1
7	200.0000	2503603.52	847221.63	----------	----------	1

Average Calibration Factor = 12958.393289 (%RSD = 6.33)

Endrin aldehyde

Component Type : Single Peak Component
Retention Time : 16.653 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	54530.35	17863.52	----------	----------	1
2	10.0000	120227.07	39170.51	----------	----------	1
3	20.0000	220169.20	72129.24	----------	----------	1
4	40.0000	431633.24	140727.40	----------	----------	1
5	50.0000	542598.65	182447.20	----------	----------	1
6	100.0000	1165317.71	395870.67	----------	----------	1
7	200.0000	2063649.63	692651.36	----------	----------	1

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Average Calibration Factor = 11468.283522 (%RSD = 9.68)

Endosulfan sulfate
Component Type : Single Peak Component
Retention Time : 17.330 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	56358.62	18970.91	----------	----------	1
2	10.0000	131184.27	43342.81	----------	----------	1
3	20.0000	250786.97	83360.22	----------	----------	1
4	40.0000	501445.68	170644.92	----------	----------	1
5	50.0000	637999.10	214211.64	----------	----------	1
6	100.0000	1372202.39	466871.29	----------	----------	1
7	200.0000	2473157.29	800823.75	----------	----------	1

Average Calibration Factor = 13018.766623 (%RSD = 5.06)

Methoxychlor
Component Type : Single Peak Component
Retention Time : 18.141 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	20.0000	119470.27	39766.01	----------	----------	1
2	50.0000	260647.85	86105.40	----------	----------	1
3	100.0000	554507.74	187697.23	----------	----------	1
4	200.0000	1136928.11	395391.77	----------	----------	1
5	250.0000	1396819.01	469351.77	----------	----------	1
6	500.0000	2538490.45	822692.89	----------	----------	1
7	1000.0000	3243452.38	973376.27	----------	----------	1

Average Calibration Factor = 5189.128272 (%RSD = 17.49)

Endrin ketone
Component Type : Single Peak Component
Retention Time : 18.605 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
1	4.0000	70542.04	22108.06	----------	----------	1
2	10.0000	154509.02	49187.81	----------	----------	1
3	20.0000	359276.80	109982.04	----------	----------	1
4	40.0000	647240.11	205919.93	----------	----------	1
5	50.0000	950735.07	302632.46	----------	----------	1
6	100.0000	1563727.00	507262.27	----------	----------	1
7	200.0000	2625217.34	846765.39	----------	----------	1

Average Calibration Factor = 16429.901991 (%RSD = 11.93)

Decachlorobiphenyl
Component Type : Single Peak Component
Retention Time : 21.268 min
Search Window : 3.00 s, 0.00 %
Reference Component :
Find peak closest to expected RT in window
Use Average Calibration Factor (Area / Amount)
Component standard purity percentage : 100.0000%

User Values
Label :
Value 1 : 0.000000
Value 2 : 0.000000
Value 3 : 0.000000
Value 4 : 0.000000
Value 5 : 0.000000

Calibration Level

Level Name	Amount	Area	Height	ISTD Amt.	ISTD Resp.	# Replicates
2	10.0000	100109.40	39862.88	----------	----------	1
3	20.0000	205353.87	81751.43	----------	----------	1
4	40.0000	405972.56	161220.62	----------	----------	1
5	50.0000	542144.08	222013.58	----------	----------	1
6	100.0000	1110808.08	455025.55	----------	----------	1
7	200.0000	1875481.79	748515.91	----------	----------	1
1	4.0000	44743.96	18035.94	----------	----------	1

Average Calibration Factor = 10420.329820 (%RSD = 6.30)

Calibration Replicate Lists
Component : TCMX
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63668.81	18503.89	4.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
149937.00	43960.78	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
275641.97	79688.60	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
580063.00	175983.90	40.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
723103.19	222124.63	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1530701.17	477431.38	100.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2866792.74	853772.67	200.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : alpha-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
47852.50	14913.40	2.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
118087.57	36812.17	5.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
222030.79	70411.80	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
466203.23	151693.90	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
582453.21	180878.53	25.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1284029.30	413153.52	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2497379.50	798462.67	100.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : gamma-BHC
Level : 1

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44834.93	14513.55	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
108170.68	34879.65	5.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
201830.17	65204.68	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
417757.00	136091.61	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
520834.00	172232.13	25.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1156935.00	394829.33	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2263136.00	760082.19	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : beta-BHC
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
20832.36	6814.15	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
48116.55	15861.33	5.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
87904.92	28956.54	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
172565.77	56884.85	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
210759.66	69498.53	25.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
428785.24	145117.14	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
936174.50	328042.06	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : delta-BHC

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
45238.10	15108.92	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
106665.00	36262.75	5.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
199212.00	67879.34	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
414919.00	143725.22	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
519098.00	177482.35	25.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1156464.50	404214.11	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2240496.00	764552.50	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Heptachlor

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
35356.40	10694.31	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
80051.50	25274.58	5.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
151893.00	48243.03	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
311950.00	99042.27	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
386921.00	125941.03	25.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
891348.00	303977.14	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1768263.00	591757.28	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Aldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
41648.05	13569.28	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
100907.04	32754.72	5.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
189014.00	61934.64	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
381459.00	125022.68	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
480364.50	161329.23	25.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1068428.00	367790.93	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2029466.50	689394.74	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Heptachlor epoxide
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
39829.60	13003.82	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
93471.77	30781.47	5.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
182984.66	58655.71	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
358693.32	118567.77	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
456035.50	145139.71	25.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
973778.99	326178.06	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1800301.11	593261.98	100.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : gamma-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
40114.68	13330.70	2.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
92675.31	31853.23	5.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
174206.89	60208.49	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
349609.45	121233.00	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
439151.75	150959.89	25.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
997476.12	348608.73	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1871749.91	629300.10	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : alpha-Chlordane
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
38958.63	13098.75	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
89971.25	30675.37	5.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
170069.63	58114.80	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
336668.37	115372.95	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
424452.58	147116.42	25.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
952210.17	337691.60	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1769953.30	618979.02	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Endosulfan I
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
36898.44	12288.99	2.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
85327.75	28787.10	5.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
160606.37	54317.65	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
316378.63	106985.10	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
394826.42	134747.58	25.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
883396.33	309119.91	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1617811.13	557686.00	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : 4,4'-DDE
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
72505.64	25263.99	4.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
174107.68	60883.50	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
342064.51	120351.69	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
746898.00	268995.12	40.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
943512.29	342245.91	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1881393.15	669231.62	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2836181.84	942894.74	200.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Dieldrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
74570.79	25269.13	4.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
177764.33	60585.96	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
344739.78	118029.68	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
744642.00	261393.28	40.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
939984.88	330039.98	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1849081.99	638797.51	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2937091.09	940607.07	200.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Endrin
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
63715.69	20381.76	4.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
147323.07	47242.05	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
276360.97	90513.79	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
562721.49	184609.38	40.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
714707.81	243592.41	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1551499.70	512905.35	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2635662.97	858340.21	200.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : 4,4'-DDD
Level : 1

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
58723.66	19792.30	4.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
136812.00	47455.35	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
272987.76	93039.19	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
551992.50	191463.52	40.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
726084.50	257069.20	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1465674.00	522886.63	100.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2467291.00	861792.52	200.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Endosulfan II
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
65145.28	22049.91	4.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
152494.00	51662.33	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
293860.12	99440.53	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
600918.00	208352.89	40.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
775654.00	268591.17	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1565725.50	532309.41	100.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2646694.50	861872.04	200.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : 4,4'-DDT
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
51921.00	18297.37	4.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
120685.30	42048.34	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
245786.50	86063.81	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
513697.56	182342.09	40.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
677952.81	242159.46	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1445113.57	514399.31	100.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2503603.52	847221.63	200.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Endrin aldehyde
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
54530.35	17863.52	4.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
120227.07	39170.51	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
220169.20	72129.24	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
431633.24	140727.40	40.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
542598.65	182447.20	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1165317.71	395870.67	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2063649.63	692651.36	200.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Endosulfan sulfate
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
56358.62	18970.91	4.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
131184.27	43342.81	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
250786.97	83360.22	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
501445.68	170644.92	40.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
637999.10	214211.64	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1372202.39	466871.29	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2473157.29	800823.75	200.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Methoxychlor
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
119470.27	39766.01	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
260647.85	86105.40	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
554507.74	187697.23	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1136928.11	395391.77	200.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1396819.01	469351.77	250.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2538490.45	822692.89	500.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
3243452.38	973376.27	1000.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Endrin ketone
Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
70542.04	22108.06	4.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
154509.02	49187.81	10.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
359276.80	109982.04	20.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
647240.11	205919.93	40.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
950735.07	302632.46	50.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1563727.00	507262.27	100.0000	---------	---------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

11/15/04 12:36:30 PM Method: G:\gc23\Files\8081b317.mth

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
2625217.34	846765.39	200.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Component : Decachlorobiphenyl
Level : 2

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
100109.40	39862.88	10.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b019p.rst

Level : 3

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
205353.87	81751.43	20.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b020p.rst

Level : 4

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
405972.56	161220.62	40.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b021p.rst

Level : 5

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
542144.08	222013.58	50.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b022p.rst

Level : 6

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1110808.08	455025.55	100.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b023p.rst

Level : 7

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
1875481.79	748515.91	200.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b024p.rst

Level : 1

Area	Height	Vol Adj Amt	ISTD Response	ISTD Amount	Date	Time	File
44743.96	18035.94	4.0000	----------	----------	11/15/04	12:36:13 PM	G:\gc23\CHB\317b018p.rst

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: /mcc 11/15/04
Calnum: 804457447001 Name: Type: (normal) Date: 12-NOV-2004 23:01 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	317_018	804457447018	pest_1	12-NOV-2004 23:01	04WS1628
2	317_019	804457447019	pest_2	12-NOV-2004 23:29	04WS1629
3	317_020	804457447020	pest_3	12-NOV-2004 23:58	04WS2051
4	317_021	804457447021	pest_4	13-NOV-2004 00:26	04WS2052
5	317_022	804457447022	pest_5	13-NOV-2004 00:54	04WS2053
6	317_023	804457447023	pest_6	13-NOV-2004 01:22	04WS1634
7	317_024	804457447024	pest_7	13-NOV-2004 01:51	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	18000	17516	16837	14966	16508	16379	20530	AVRG	R		5.798E-5		pg	17248	10	0.995	20	
gamma-BHC	A	16980	16367	14951	13228	14736	14064	18369	AVRG	R		6.440E-5		pg	15528	12	0.995	20	
beta-BHC	A	7945.5	7314.2	6422.8	5506.1	6081.9	5384.3	6606.7	AVRG	R		1.547E-4		pg	6465.9	14	0.995	20	
delta-BHC	A	17579	16695	14912	12984	14843	14111	18518	AVRG	R		6.384E-5		pg	15663	13	0.995	20	
Heptachlor	A	14860	14903	13349	11361	12984	11941	16266	AVRG	R		7.317E-5		pg	13666	13	0.995	20	
Aldrin	A	15884	15492	13927	11779	13572	12399	16526	AVRG	R		7.030E-5		pg	14226	13	0.995	20	
Heptachlor epoxide	A	15054	14309	12829	10673	12526	11152	15027	AVRG	R		7.645E-5		pg	13081	14	0.995	20	
gamma-Chlordane	A	15049	14436	12739	10653	12672	11275	15603	AVRG	R		7.574E-5		pg	13204	14	0.995	20	
alpha-Chlordane	A	14966	14671	12408	10214	12149	10677	14656	AVRG	R		7.800E-5		pg	12820	15	0.995	20	
4,4'-DDE	A	14186	13759	12323	10512	13484	12440	13808	AVRG	R		7.734E-5		pg	12930	10	0.995	20	
Endosulfan I	A	13316	12862	11460	9481.7	11191	9738.3	13497	AVRG	R		8.584E-5		pg	11649	14	0.995	20	
Dieldrin	A	14351	14008	12475	10675	13410	12389	13959	AVRG	R		7.670E-5		pg	13038	10	0.995	20	
Endrin	A	12237	11989	10364	8555.1	10707	9898.0	11874	AVRG	R		9.256E-5		pg	10804	12	0.995	20	
4,4'-DDD	A	11514	11475	9861.1	8354.4	10514	9829.3	11975	AVRG	R		9.521E-5		pg	10503	12	0.995	20	
Endosulfan II	A	12700	12433	10844	8924.4	11098	10275	12245	AVRG	R		8.915E-5		pg	11217	12	0.995	20	
4,4'-DDT	A	10024	10464	8863.8	7355.4	9532.1	8878.0	11445	AVRG	R		1.052E-4		pg	9508.9	14	0.995	20	
Endrin aldehyde	A	10691	10087	8298.5	6872.9	8375.0	7464.5	9769.0	AVRG	R		1.137E-4		pg	8794.0	16	0.995	20	
Methoxychlor	A	4475.3	4731.2	3865.6	3376.8	4515.7	3588.9	3288.3	AVRG	R		2.514E-4		pg	3977.4	15	0.995	20	
Endosulfan sulfate	A	11375	11200	9235.1	7651.3	9537.4	8527.6	11242	AVRG	R		1.018E-4		pg	9824.1	15	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By:
Calnum: 804457447001 Name: Type: (normal) Date: 12-NOV-2004 23:01 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	13034	13179	10871	9109.5	11607	10712	12662	AVRG	R		8.623E-5		pg	11596	13	0.995	20	
TCMX	A	11913	11247	10697	9223.8	10145	10102	11802	AVRG	R		9.317E-5		pg	10733	9	0.995	20	
Decachlorobiphenyl	A	8433.8	8442.7	7732.5	6329.1	7786.8	6615.9	9706.2	AVRG	R		1.272E-4		pg	7863.9	15	0.995	20	
alpha-BHC	B	23926	23618	22203	23310	23298	25681	24974	AVRG	R		4.191E-5		pg	23859	5	0.995	20	
gamma-BHC	B	22417	21634	20183	20888	20833	23139	22631	AVRG	R		4.614E-5		pg	21675	5	0.995	20	
beta-BHC	B	10416	9623.3	8790.5	8628.3	8430.4	8575.7	9361.7	AVRG	R		1.097E-4		pg	9118.0	8	0.995	20	
delta-BHC	B	22619	21333	19921	20746	20764	23129	22405	AVRG	R		4.638E-5		pg	21560	5	0.995	20	
Heptachlor	B	17678	16010	15189	15598	15477	17827	17683	AVRG	R		6.063E-5		pg	16495	7	0.995	20	
Aldrin	B	20824	20181	18901	19073	19215	21369	20295	AVRG	R		5.005E-5		pg	19980	5	0.995	20	
Heptachlor epoxide	B	19915	18694	18298	17935	18241	19476	18003	AVRG	R		5.361E-5		pg	18652	4	0.995	20	
gamma-Chlordane	B	20057	18535	17421	17480	17566	19950	18717	AVRG	R		5.396E-5		pg	18532	6	0.995	20	
alpha-Chlordane	B	19479	17994	17007	16833	16978	19044	17700	AVRG	R		5.598E-5		pg	17862	6	0.995	20	
4,4'-DDE	B	18126	17411	17103	18672	18870	18814	14181	AVRG	R		5.683E-5		pg	17597	9	0.995	20	
Endosulfan I	B	18449	17066	16061	15819	15793	17668	16178	AVRG	R		5.981E-5		pg	16719	6	0.995	20	
Dieldrin	B	18643	17776	17237	18616	18800	18491	14685	AVRG	R		5.634E-5		pg	17750	8	0.995	20	
Endrin	B	15929	14732	13818	14068	14294	15515	13178	AVRG	R		6.894E-5		pg	14505	7	0.995	20	
4,4'-DDD	B	14681	13681	13649	13800	14522	14657	12336	AVRG	R		7.192E-5		pg	13904	6	0.995	20	
Endosulfan II	B	16286	15249	14693	15023	15513	15657	13233	AVRG	R		6.625E-5		pg	15094	6	0.995	20	
4,4'-DDT	B	12980	12069	12289	12842	13559	14451	12518	AVRG	R		7.717E-5		pg	12958	6	0.995	20	
Endrin aldehyde	B	13633	12023	11008	10791	10852	11653	10318	AVRG	R		8.720E-5		pg	11468	10	0.995	20	
Methoxychlor	B	5973.5	5213.0	5545.1	5684.6	5587.3	5077.0	3243.5	AVRG	R		1.927E-4		pg	5189.1	17	0.995	20	
Endosulfan sulfate	B	14090	13118	12539	12536	12760	13722	12366	AVRG	R		7.681E-5		pg	13019	5	0.995	20	
Endrin ketone	B	17636	15451	17964	16181	19015	15637	13126	AVRG	R		6.086E-5		pg	16430	12	0.995	20	
TCMX	B	15917	14994	13782	14502	14462	15307	14334	AVRG	R		6.777E-5		pg	14757	5	0.995	20	
Decachlorobiphenyl	B	11186	10011	10268	10149	10843	11108	9377.4	AVRG	R		9.597E-5		pg	10420	6	0.995	20	

Method	Ch	Count	Avg	%RSD Limit	Flags
EPA 8081A	A	22	13	20	
EPA 8081A	B	22	7	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 11/15/04 11:26:11 AM
Data Acquisition Time : 11/12/04 11:01:48 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a018p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.579	47651.62	5.4260	1.000	1	5.43
alpha-BHC	8.130	36000.40	2.5463	1.000	1	2.55
gamma-BHC	8.996	33959.71	2.6781	1.000	1	2.68
beta-BHC	9.266	15890.90	3.0032	1.000	1	3.00
delta-BHC	9.723	35158.03	2.8191	1.000	1	2.82
Heptachlor	10.264	29720.21	2.6504	1.000	1	2.65
Aldrin	11.037	31767.34	2.8113	1.000	1	2.81
Heptachlor epoxide	12.622	30107.21	2.9182	1.000	1	2.92
gamma-Chlordane	12.938	30098.04	2.9305	1.000	1	2.93
alpha-Chlordane	13.272	29931.14	3.0407	1.000	1	3.04
4,4'-DDE	13.530	56743.61	5.7620	1.000	1	5.76
Endosulfan I	13.600	26631.14	2.9013	1.000	1	2.90
Dieldrin	14.204	57404.50	5.7193	1.000	1	5.72
Endrin	14.768	48948.38	5.8172	1.000	1	5.82
4,4'-DDD	15.014	46057.74	5.9355	1.000	1	5.94
Endosulfan II	15.332	50799.82	5.9969	1.000	1	6.00
4,4'-DDT	15.696	40097.85	5.5063	1.000	1	5.51
Endrin aldehyde	16.380	42762.64	6.4862	1.000	1	6.49
Methoxychlor	16.932	89505.56	29.6128	1.000	1	29.61
Endosulfan sulfate	17.448	45499.49	6.2807	1.000	1	6.28
Endrin ketone	18.103	52136.94	5.9219	1.000	1	5.92
Decachlorobiphenyl	20.500	33735.36	6.6012	1.000	1	6.60
		910607.65	123.3651			123.37

GP 11/15/04

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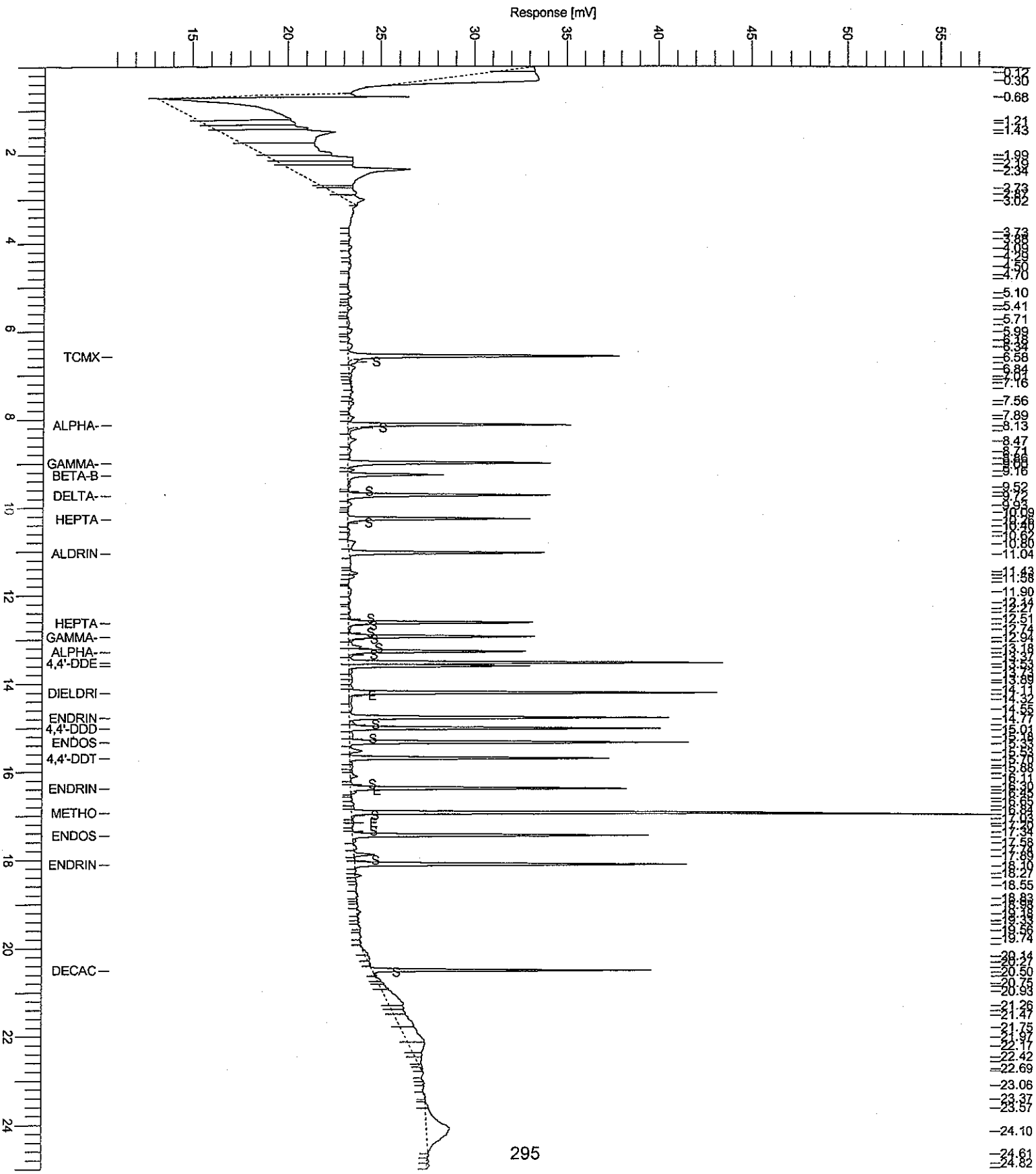
Report stored in ASCII file: G:\gc23\CHA\317a018p.TX0

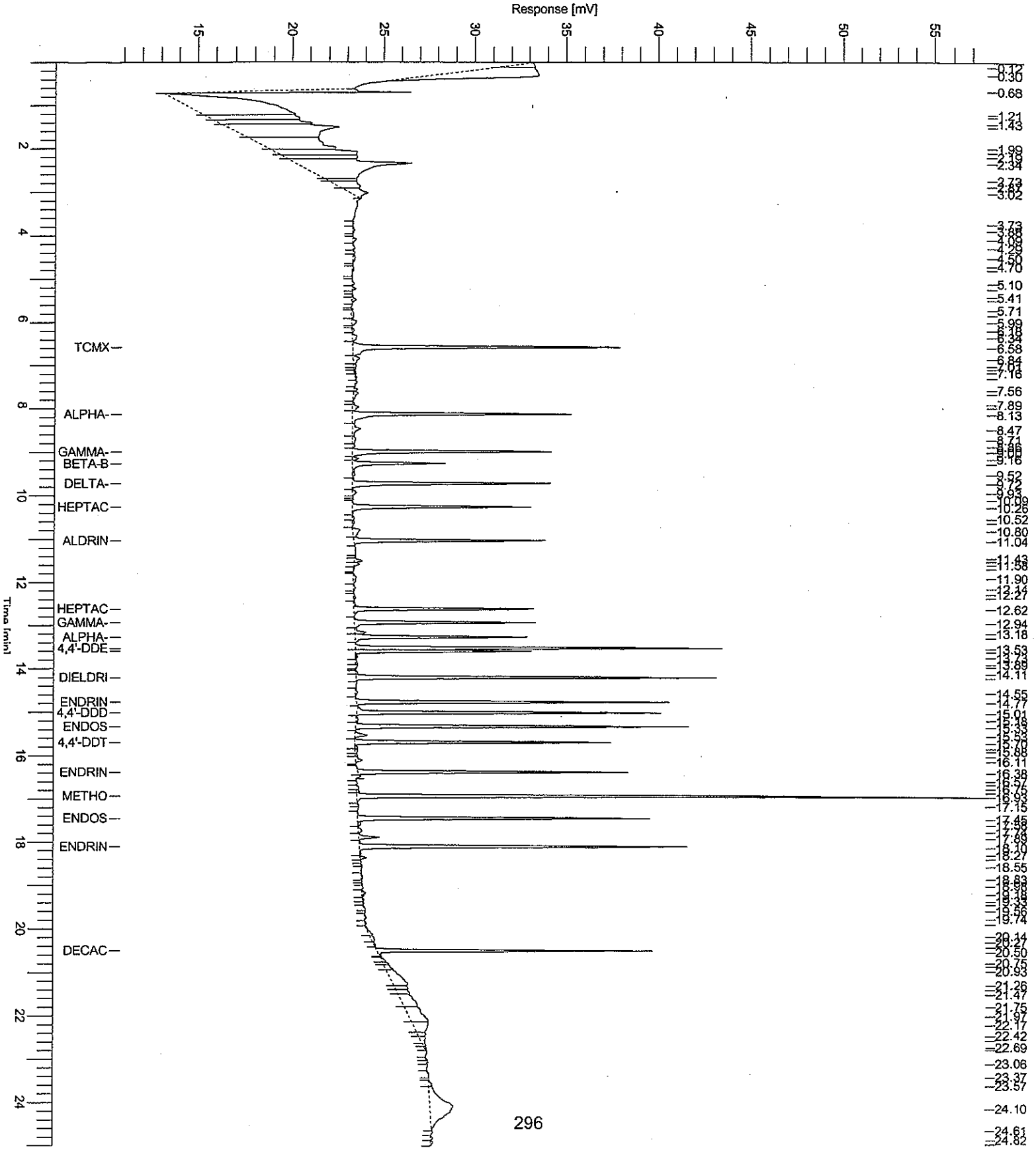
GC23 Rtx-CLPesticides

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc23\CHa\317a018.raw
Date : 11/15/04 11:26:17 AM
Method :
Time of Injection: 11/12/04 11:01:48 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.76 mV High Point : 57.75 mV
Plot Offset: 10.76 mV Plot Scale: 47.0 mV



GC23 Rtx-CLPesticides

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc23\CHa\317a018.raw
Date : 11/15/04 10:36:08 AM
Method : gc23ins Time of Injection: 11/12/04 11:01:48 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 10.88 mV High Point : 57.75 mV
Scale Factor: 1.0 Plot Offset: 10.88 mV Plot Scale: 46.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1628,pest_1
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 11/15/04 12:15:15 PM
Data Acquisition Time : 11/12/04 11:01:48 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b018p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.906	63668.81	5.0331	1.000	1	5.03
alpha-BHC	8.546	47852.50	2.3326	1.000	1	2.33
gamma-BHC	9.486	44834.93	2.3958	1.000	1	2.40
beta-BHC	9.718	20832.36	2.5767	1.000	1	2.58
delta-BHC	10.483	45238.10	2.4163	1.000	1	2.42
Heptachlor	10.622	35356.40	2.6240	1.000	1	2.62
Aldrin	11.437	41648.05	2.3983	1.000	1	2.40
Heptachlor epoxide	12.912	39829.60	2.4687	1.000	1	2.47
gamma-Chlordane	13.382	40114.68	2.4655	1.000	1	2.47
alpha-Chlordane	13.752	38958.63	2.4721	1.000	1	2.47
Endosulfan I	13.868	36898.44	2.5058	1.000	1	2.51
4,4'-DDE	14.235	72505.64	4.6520	1.000	1	4.65
Dieldrin	14.551	74570.79	4.8524	1.000	1	4.85
Endrin	15.289	63715.69	5.0276	1.000	1	5.03
4,4'-DDD	15.653	58723.66	4.9721	1.000	1	4.97
Endosulfan II	15.815	65145.28	4.8884	1.000	1	4.89
4,4'-DDT	16.416	51921.00	4.4155	1.000	1	4.42
Endrin aldehyde	16.654	54530.35	5.3128	1.000	1	5.31
Endosulfan sulfate	17.331	56358.62	4.8988	1.000	1	4.90
Methoxychlor	18.145	119470.27	26.4522	1.000	1	26.45
Endrin ketone	18.606	70542.04	5.2696	1.000	1	5.27
Decachlorobiphenyl	21.268	44743.96	4.9817	1.000	1	4.98
		1187459.82	105.4122			105.41

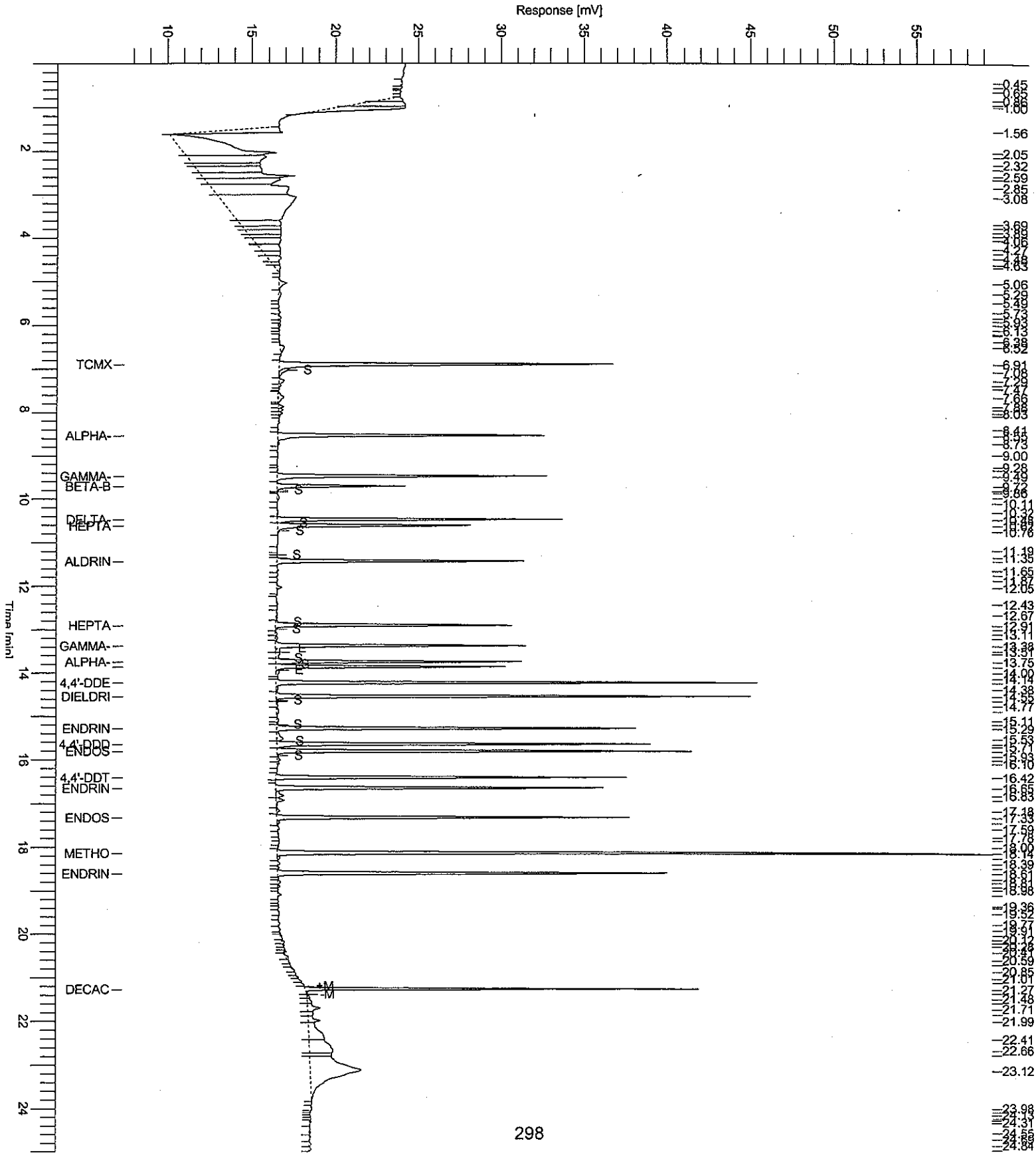
CJ 11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\317b018p.TX0

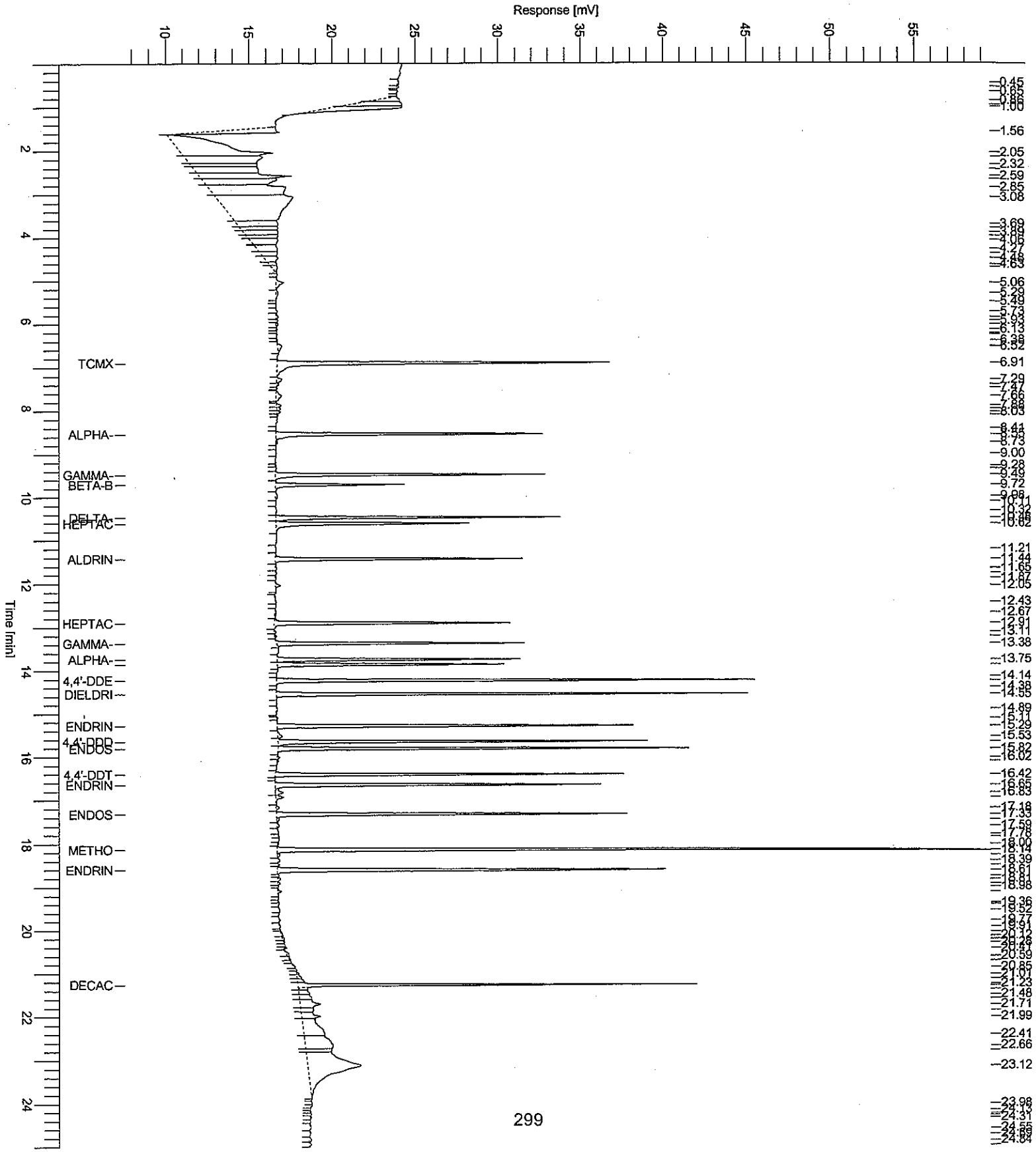
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc23\CHb\317b018.raw
Date : 11/15/04 12:15:21 PM
Method : Time of Injection: 11/12/04 11:01:48 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 7.48 mV High Point : 59.51 mV
Plot Offset: 7.48 mV Plot Scale: 52.0 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1628,pest_1 Sample #: level_1 Page 1 of 1
FileName : G:\gc23\CHb\317b018
Date : 11/15/04 10:35:30 AM
Method : gc23ins Time of Injection: 11/12/04 11:01:48 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 7.61 mV High Point : 59.51 mV
Scale Factor: 1.0 Plot Offset: 7.61 mV Plot Scale: 51.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 11/15/04 11:31:16 AM
Data Acquisition Time : 11/12/04 11:29:57 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a019p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.580	112474.00	12.8072	1.000	1	12.81
alpha-BHC	8.132	87577.83	6.1944	1.000	1	6.19
gamma-BHC	8.997	81833.20	6.4534	1.000	1	6.45
beta-BHC	9.267	36570.96	6.9114	1.000	1	6.91
delta-BHC	9.728	83477.22	6.6935	1.000	1	6.69
Heptachlor	10.264	74516.82	6.6452	1.000	1	6.65
Aldrin	11.038	77461.97	6.8551	1.000	1	6.86
Heptachlor epoxide	12.623	71542.88	6.9343	1.000	1	6.93
gamma-Chlordane	12.938	72180.61	7.0279	1.000	1	7.03
alpha-Chlordane	13.272	73355.15	7.4523	1.000	1	7.45
4,4'-DDE	13.530	137594.39	13.9720	1.000	1	13.97
Endosulfan I	13.600	64309.04	7.0061	1.000	1	7.01
Dieldrin	14.204	140077.74	13.9561	1.000	1	13.96
Endrin	14.768	119892.13	14.2485	1.000	1	14.25
4,4'-DDD	15.014	114751.36	14.7881	1.000	1	14.79
Endosulfan II	15.332	124330.37	14.6772	1.000	1	14.68
4,4'-DDT	15.696	104638.67	14.3691	1.000	1	14.37
Endrin aldehyde	16.379	100873.42	15.3003	1.000	1	15.30
Methoxychlor	16.932	236558.45	78.2652	1.000	1	78.27
Endosulfan sulfate	17.448	112000.28	15.4603	1.000	1	15.46
Endrin ketone	18.102	131794.11	14.9696	1.000	1	14.97
Decachlorobiphenyl	20.500	84427.00	16.5203	1.000	1	16.52
		2242237.59	307.5078			307.51

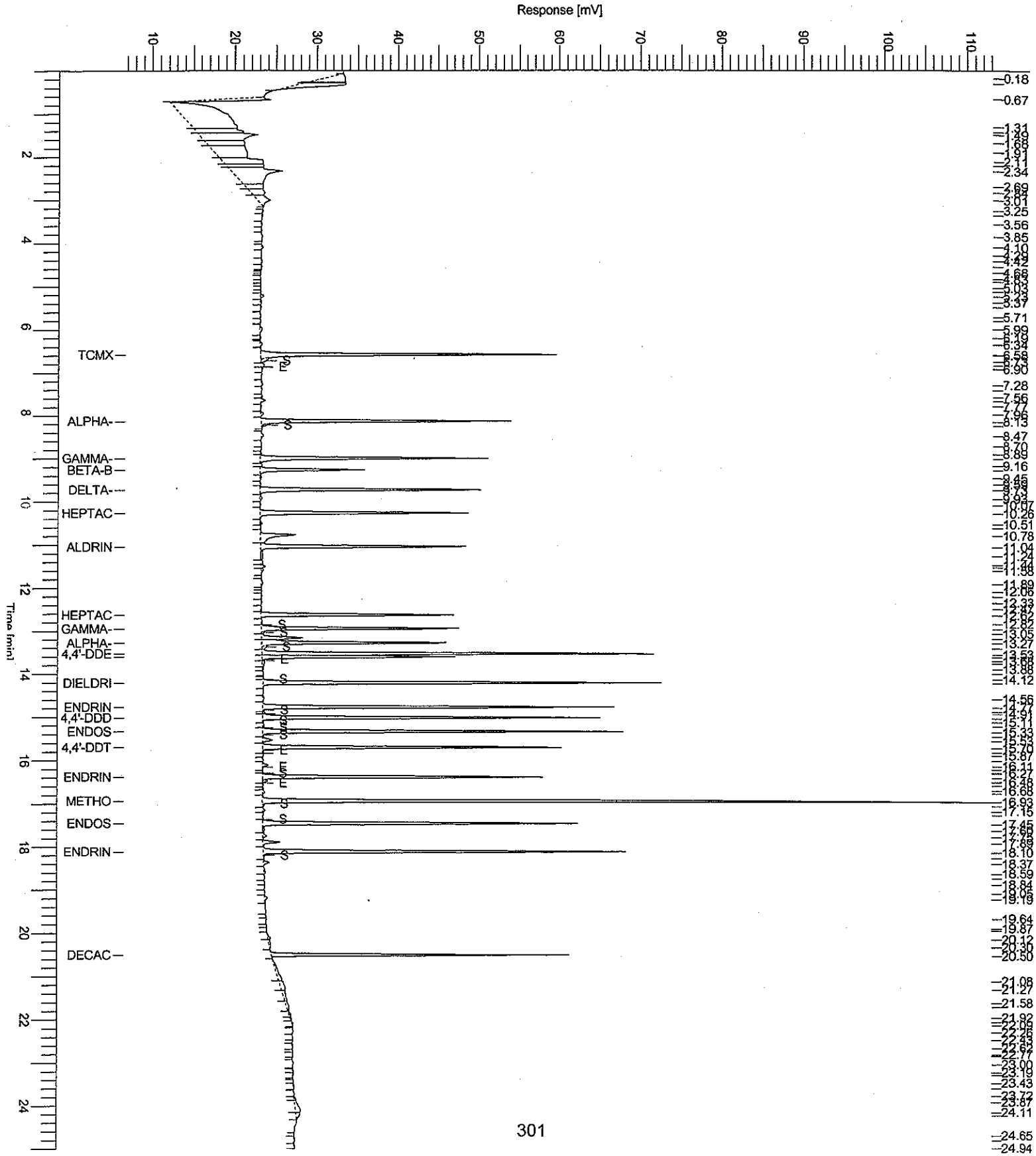
11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\317a019p.TX0

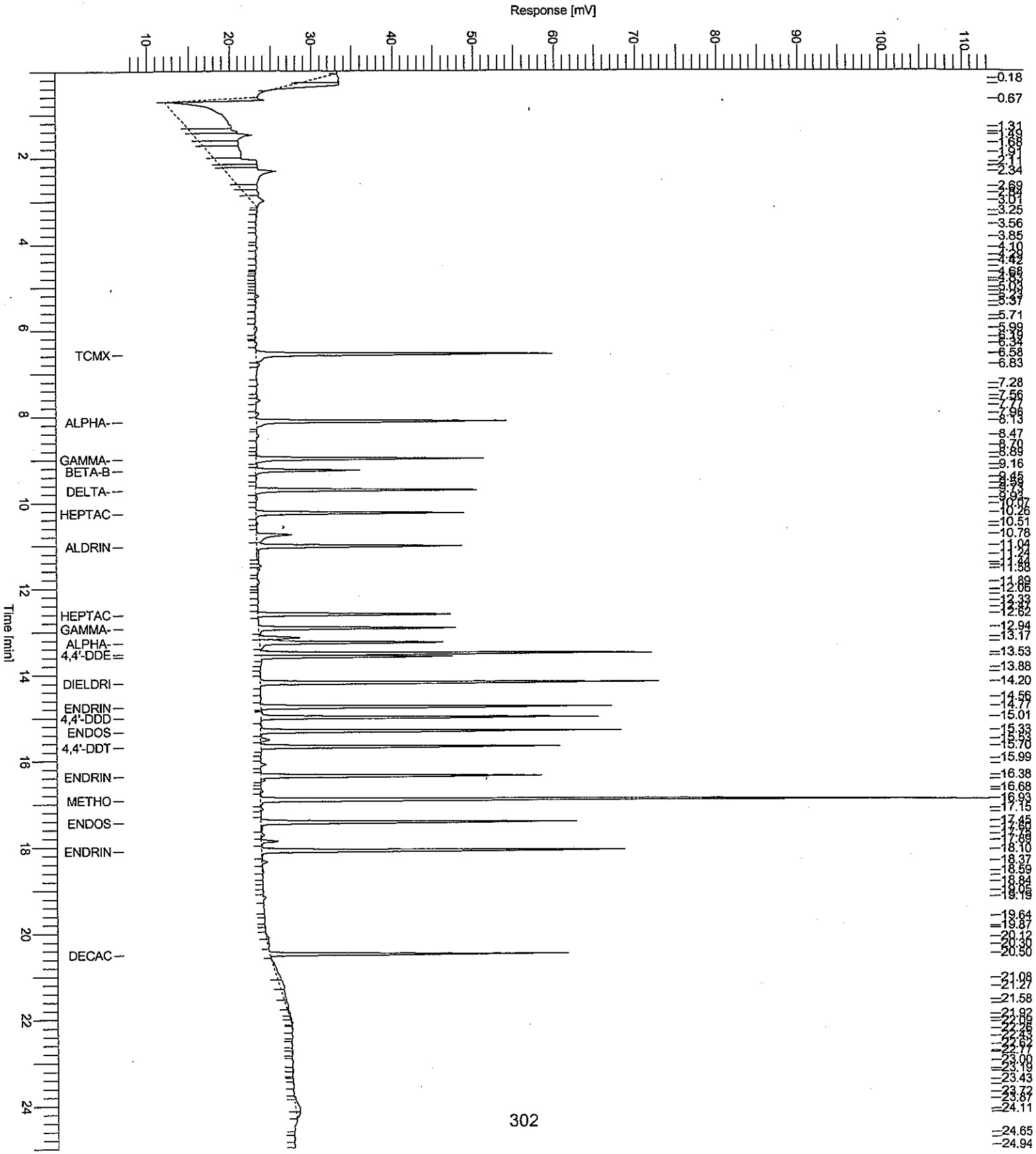
GC23 Rtx-CLPesticides

Sample Name : ical,04ws1629,pest_2 Sample #: level_2
FileName : G:\gc23\CHa\317a019.raw
Date : 11/15/04 11:31:22 AM
Method : Time of Injection: 11/12/04 11:29:57 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 6.74 mV High Point : 113.18 mV
Plot Offset: 6.74 mV Plot Scale: 106.4 mV



GC23 Rtx-CLPesticides

Sample Name : ical,04ws1629,pest_2 Sample #: level_2
FileName : G:\gc23\CHa\317a019.raw
Date : 11/15/04 10:36:18 AM
Method : gc23ins Time of Injection: 11/12/04 11:29:57 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 7.01 mV High Point : 113.18 mV
Scale Factor: 1.0 Plot Offset: 7.01 mV Plot Scale: 106.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1629,pest_2
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 11/15/04 12:17:51 PM
Data Acquisition Time : 11/12/04 11:29:57 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b019p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.905	149937.00	11.8528	1.000	1	11.85
alpha-BHC	8.546	118087.57	5.7563	1.000	1	5.76
gamma-BHC	9.487	108170.68	5.7801	1.000	1	5.78
beta-BHC	9.719	48116.55	5.9515	1.000	1	5.95
delta-BHC	10.483	106665.00	5.6972	1.000	1	5.70
Heptachlor	10.622	80051.50	5.9410	1.000	1	5.94
Aldrin	11.438	100907.04	5.8107	1.000	1	5.81
Heptachlor epoxide	12.912	93471.77	5.7936	1.000	1	5.79
gamma-Chlordane	13.382	92675.31	5.6960	1.000	1	5.70
alpha-Chlordane	13.752	89971.25	5.7092	1.000	1	5.71
Endosulfan I	13.868	85327.75	5.7947	1.000	1	5.79
4,4'-DDE	14.235	174107.68	11.1708	1.000	1	11.17
Dieldrin	14.551	177764.33	11.5673	1.000	1	11.57
Endrin	15.294	147323.07	11.6248	1.000	1	11.62
4,4'-DDD	15.653	136812.00	11.5839	1.000	1	11.58
Endosulfan II	15.815	152494.00	11.4430	1.000	1	11.44
4,4'-DDT	16.416	120685.30	10.2635	1.000	1	10.26
Endrin aldehyde	16.654	120227.07	11.7136	1.000	1	11.71
Endosulfan sulfate	17.330	131184.27	11.4028	1.000	1	11.40
Methoxychlor	18.139	260647.85	57.7106	1.000	1	57.71
Endrin ketone	18.606	154509.02	11.5421	1.000	1	11.54
Decachlorobiphenyl	21.269	100109.40	11.1459	1.000	1	11.15
		2749245.40	240.9514			240.95

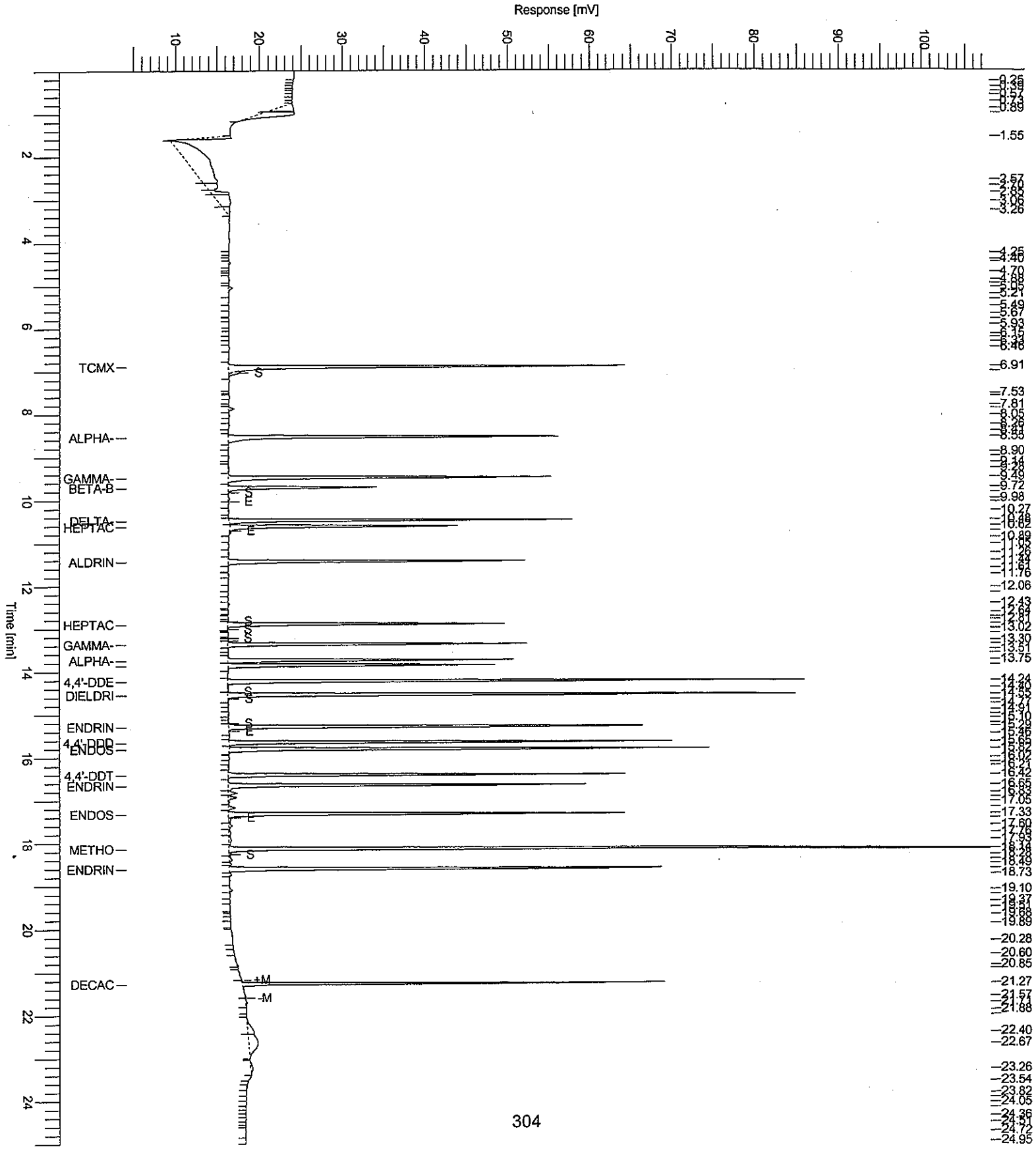
GP 11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\317b019p.TX0

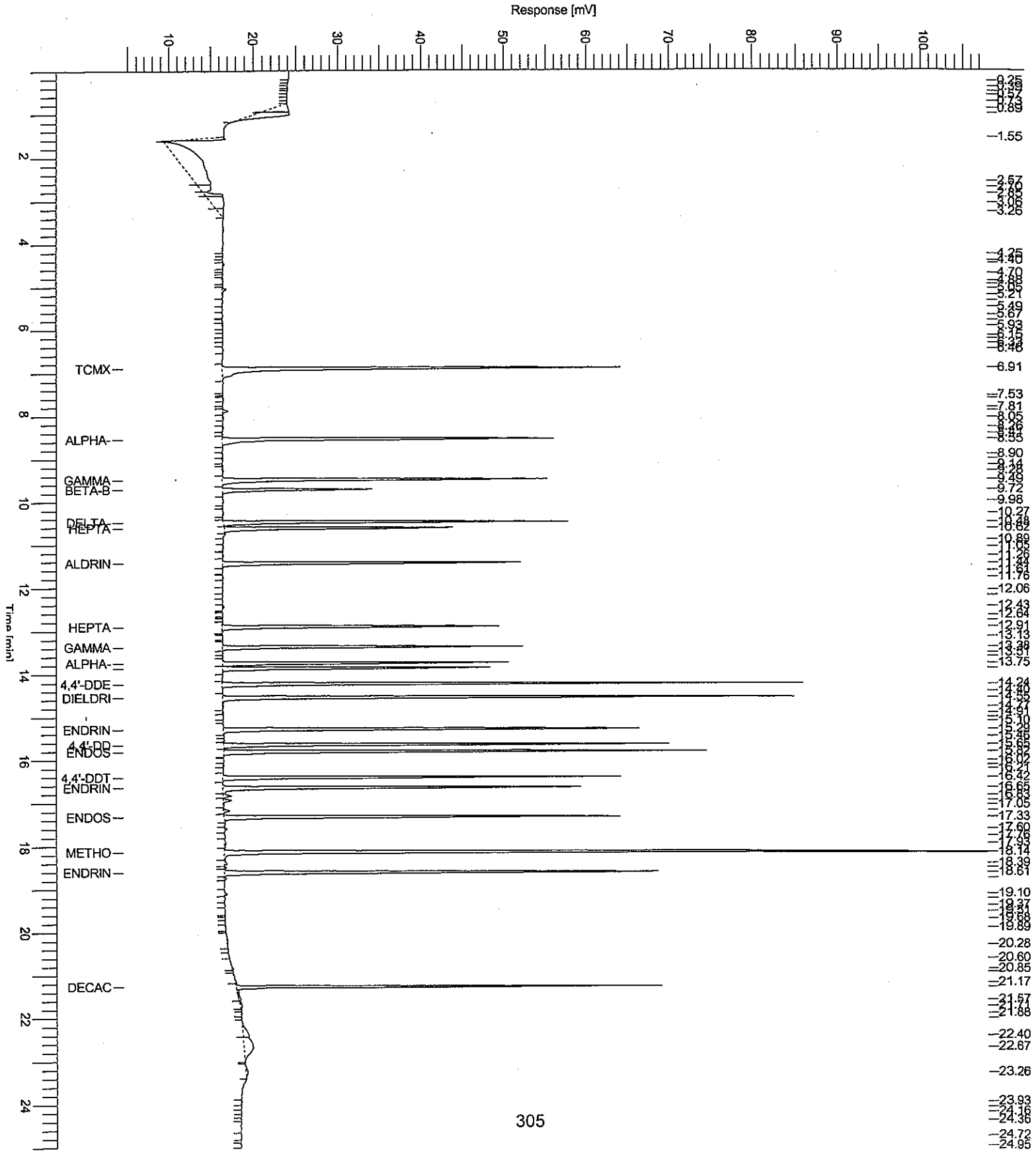
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
FileName : G:\gc23\CHb\317b019.raw
Date : 11/15/04 12:17:56 PM
Method :
Time of Injection: 11/12/04 11:29:57 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.15 mV High Point : 107.92 mV
Plot Offset: 4.15 mV Plot Scale: 103.8 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws1629,pest_2 Sample #: level_2 Page 1 of 1
FileName : G:\gc23\CHb\317b019
Date : 11/15/04 10:35:35 AM
Method : gc23ins Time of Injection: 11/12/04 11:29:57 PM
Start Time : 0.00 min Ehd Time : 25.00 min Low Point : 4.41 mV High Point : 107.92 mV
Scale Factor: 1.0 Plot Offset: 4.41 mV Plot Scale: 103.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2051,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 11/15/04 11:34:31 AM
Data Acquisition Time : 11/12/04 11:58:06 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a020p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.580	213941.25	24.3611	1.000	1	24.36
alpha-BHC	8.132	168369.61	11.9088	1.000	1	11.91
gamma-BHC	8.998	149507.80	11.7903	1.000	1	11.79
beta-BHC	9.267	64228.33	12.1383	1.000	1	12.14
delta-BHC	9.729	149121.17	11.9571	1.000	1	11.96
Heptachlor	10.264	133491.66	11.9045	1.000	1	11.90
Aldrin	11.038	139271.32	12.3251	1.000	1	12.33
Heptachlor epoxide	12.627	128289.00	12.4345	1.000	1	12.43
gamma-Chlordane	12.938	127392.26	12.4036	1.000	1	12.40
alpha-Chlordane	13.273	124080.84	12.6055	1.000	1	12.61
4,4'-DDE	13.530	246452.85	25.0260	1.000	1	25.03
Endosulfan I	13.600	114599.35	12.4850	1.000	1	12.49
Dieldrin	14.204	249490.98	24.8570	1.000	1	24.86
Endrin	14.768	207284.56	24.6345	1.000	1	24.63
4,4'-DDD	15.014	197221.60	25.4162	1.000	1	25.42
Endosulfan II	15.332	216889.58	25.6039	1.000	1	25.60
4,4'-DDT	15.696	177276.95	24.3438	1.000	1	24.34
Endrin aldehyde	16.379	165970.49	25.1742	1.000	1	25.17
Methoxychlor	16.932	386563.23	127.8941	1.000	1	127.89
Endosulfan sulfate	17.448	184702.51	25.4960	1.000	1	25.50
Endrin ketone	18.102	217410.62	24.6943	1.000	1	24.69
Decachlorobiphenyl	20.500	154650.69	30.2614	1.000	1	30.26
		3916206.64	529.7152			529.72

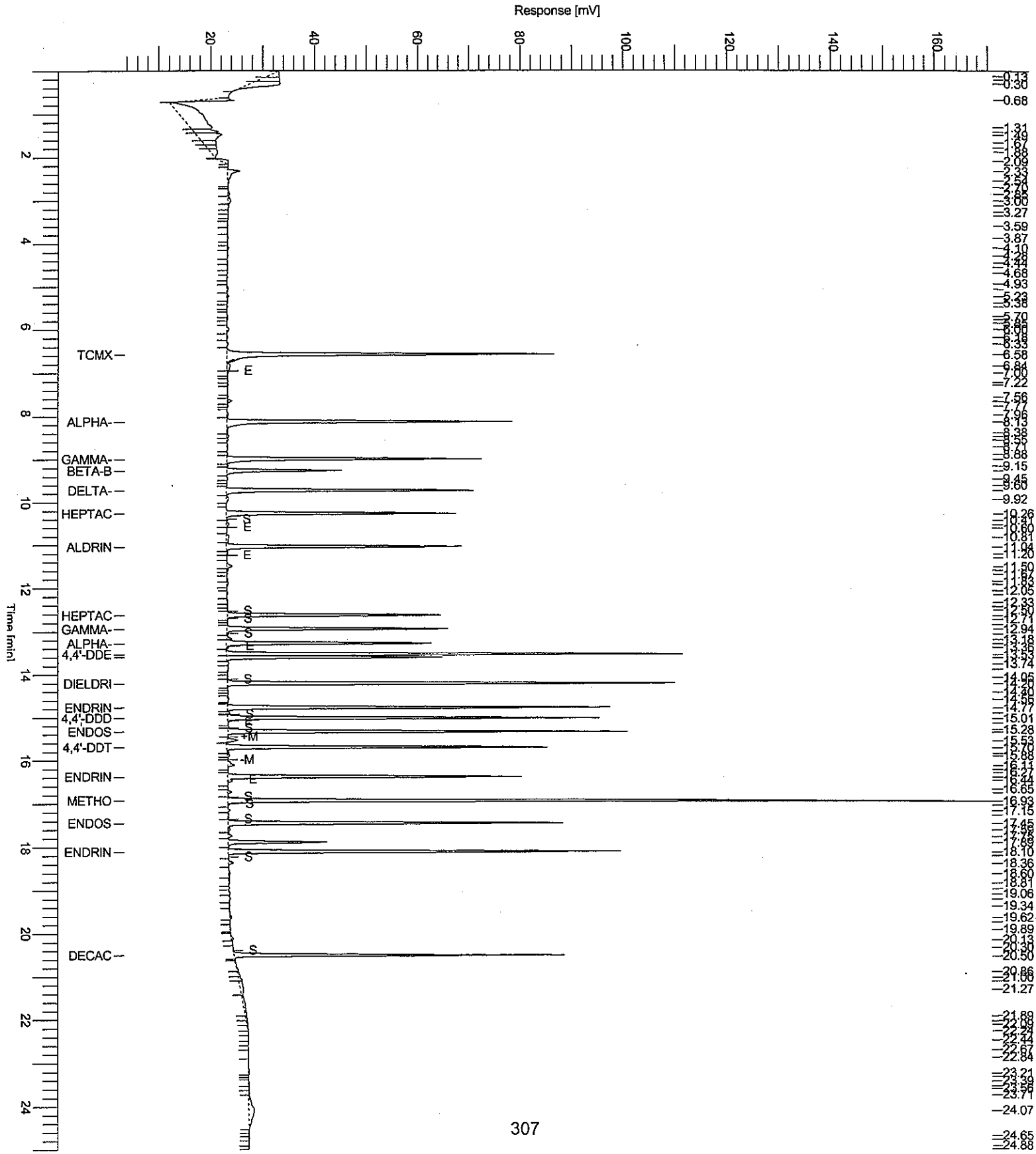
11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\317a020p.TX0

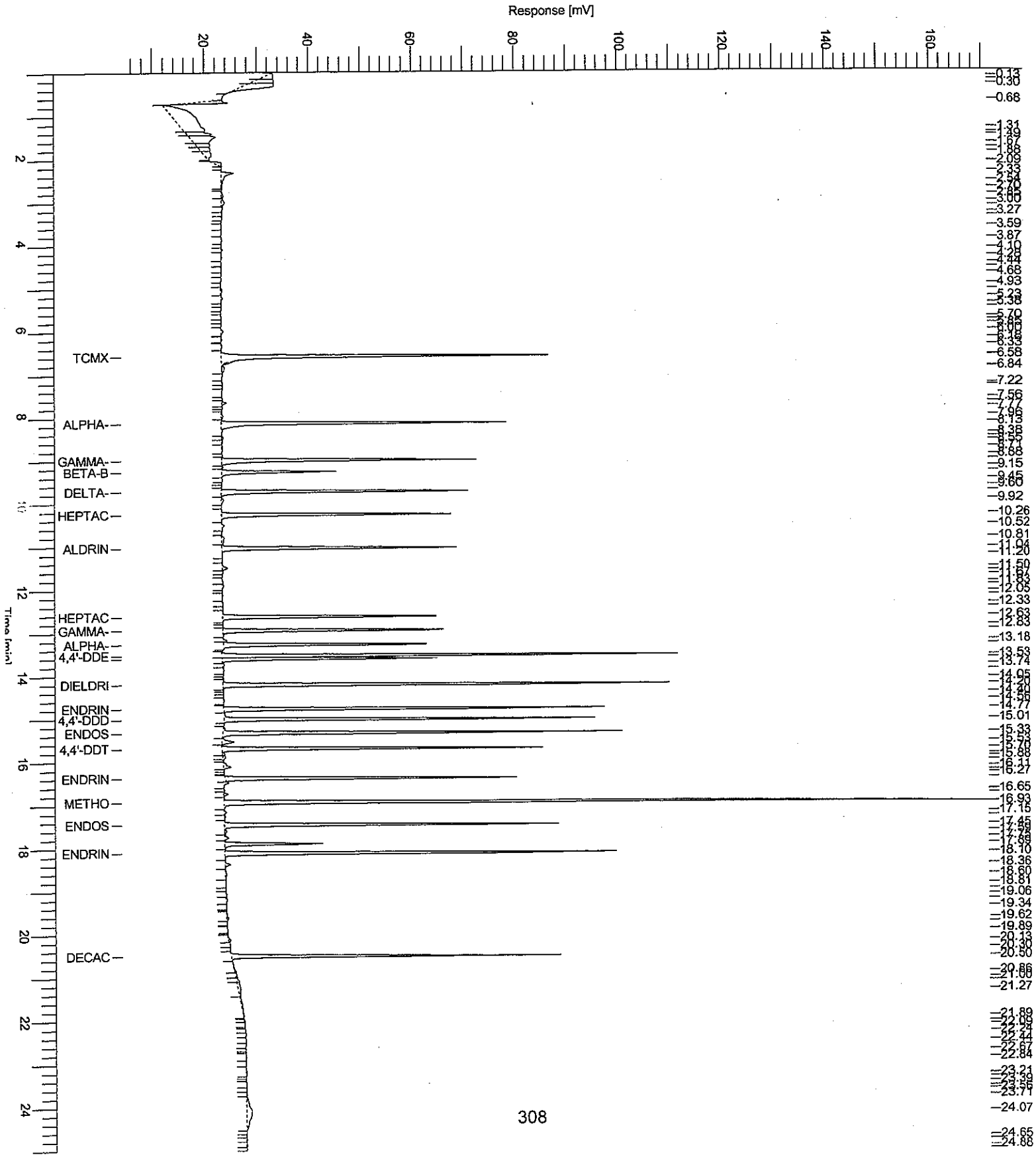
GC23 Rtx-CLPesticides

ample Name : ical,04ws2051,pest_3 Sample #: level_3 Page 1 of 1
ileName : G:\gc23\CHa\317a020.raw
ate : 11/15/04 11:34:37 AM
ethod : Time of Injection: 11/12/04 11:58:06 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.62 mV High Point : 171.11 mV
lot Offset: 3.62 mV Plot Scale: 167.5 mV



GC23 Rtx-CLPesticides

Sample Name : ical,04ws2051,pest_3 Sample #: level_3
FileName : G:\gc23\CHa\317a020.raw
Date : 11/15/04 10:36:27 AM
Method : gc23ins Time of Injection: 11/12/04 11:58:06 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.04 mV High Point : 171.11 mV
Scale Factor: 1.0 Plot Offset: 4.04 mV Plot Scale: 167.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2051,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 20

Date : 11/15/04 12:28:10 PM
Data Acquisition Time : 11/12/04 11:58:06 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b020p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.907	275641.97	21.7900	1.000	1	21.79
alpha-BHC	8.547	222030.79	10.8232	1.000	1	10.82
gamma-BHC	9.487	201830.17	10.7848	1.000	1	10.78
beta-BHC	9.719	87904.92	10.8728	1.000	1	10.87
delta-BHC	10.483	199212.00	10.6403	1.000	1	10.64
Heptachlor	10.622	151893.00	11.2727	1.000	1	11.27
Aldrin	11.438	189014.00	10.8843	1.000	1	10.88
Heptachlor epoxide	12.912	182984.66	11.3418	1.000	1	11.34
gamma-Chlordane	13.382	174206.89	10.7070	1.000	1	10.71
alpha-Chlordane	13.752	170069.63	10.7919	1.000	1	10.79
Endosulfan I	13.868	160606.37	10.9070	1.000	1	10.91
4,4'-DDE	14.235	342064.51	21.9470	1.000	1	21.95
Dieldrin	14.551	344739.78	22.4325	1.000	1	22.43
Endrin	15.288	276360.97	21.8067	1.000	1	21.81
4,4'-DDD	15.653	272987.76	23.1139	1.000	1	23.11
Endosulfan II	15.815	293860.12	22.0509	1.000	1	22.05
4,4'-DDT	16.416	245786.50	20.9026	1.000	1	20.90
Endrin aldehyde	16.653	220169.20	21.4509	1.000	1	21.45
Endosulfan sulfate	17.330	250786.97	21.7990	1.000	1	21.80
Methoxychlor	18.138	554507.74	122.7747	1.000	1	122.77
Endrin ketone	18.602	359276.80	26.8386	1.000	1	26.84
Decachlorobiphenyl	21.269	205353.87	22.8636	1.000	1	22.86
		5381288.64	478.7963			478.80

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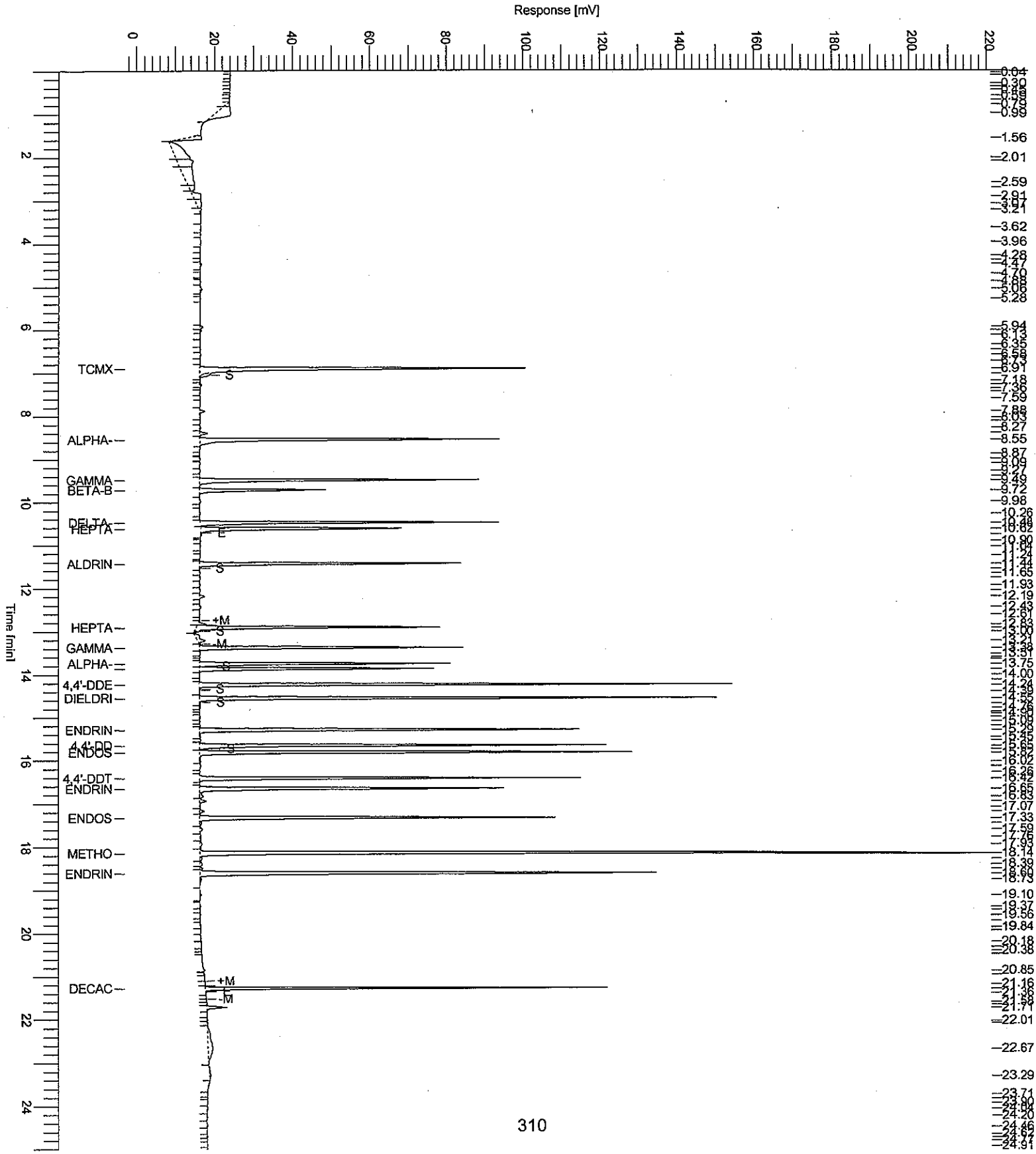
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\317b020p.TX0

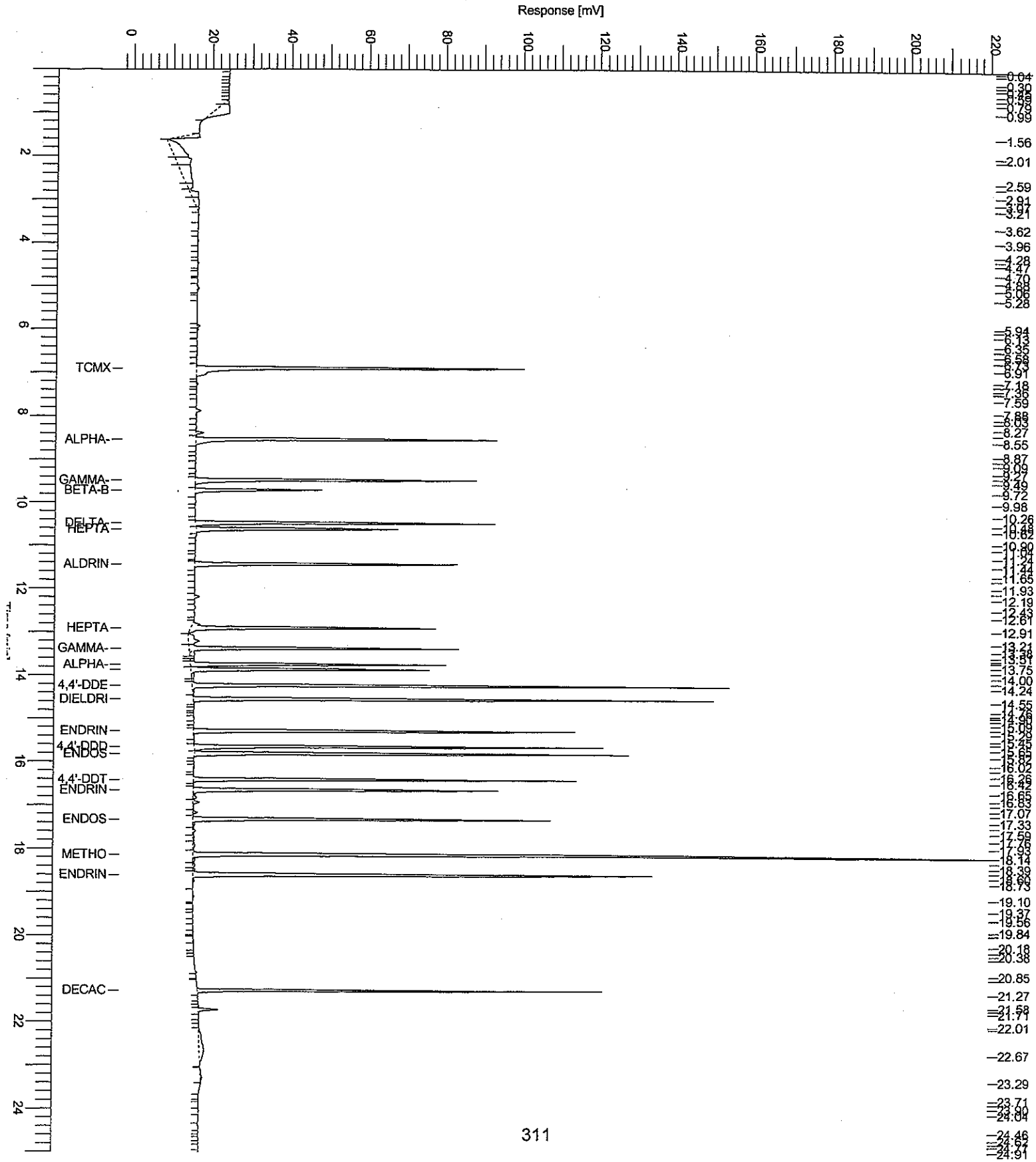
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws2051,pest_3 Sample #: level_3 Page 1 of 1
FileName : G:\gc23\CHb\317b020.raw
Date : 11/15/04 12:28:16 PM
Method : Time of Injection: 11/12/04 11:58:06 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -3.06 mV High Point : 221.16 mV
Plot Offset: -3.06 mV Plot Scale: 224.2 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws2051,pest_3 Sample #: level_3 Page 1 of 1
FileName : G:\gc23\CHb\317b020
Date : 11/15/04 10:35:41 AM
Method : gc23ins Time of Injection: 11/12/04 11:58:06 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -2.50 mV High Point : 221.16 mV
Scale Factor: 1.0 Plot Offset: -2.50 mV Plot Scale: 223.7 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2052,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 11/15/04 11:37:48 AM
Data Acquisition Time : 11/13/04 12:26:15 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a021p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.581	368950.50	42.0117	1.000	1	42.01
alpha-BHC	8.133	299329.33	21.1716	1.000	1	21.17
gamma-BHC	8.998	264565.00	20.8637	1.000	1	20.86
beta-BHC	9.267	110122.91	20.8118	1.000	1	20.81
delta-BHC	9.729	259672.93	20.8216	1.000	1	20.82
Heptachlor	10.265	227217.21	20.2627	1.000	1	20.26
Aldrin	11.039	235579.88	20.8481	1.000	1	20.85
Heptachlor epoxide	12.628	213467.00	20.6904	1.000	1	20.69
gamma-Chlordane	12.939	213057.15	20.7444	1.000	1	20.74
alpha-Chlordane	13.278	204275.34	20.7526	1.000	1	20.75
4,4'-DDE	13.531	420476.81	42.6972	1.000	1	42.70
Endosulfan I	13.600	189634.12	20.6597	1.000	1	20.66
Dieldrin	14.205	426982.28	42.5406	1.000	1	42.54
Endrin	14.769	342202.90	40.6687	1.000	1	40.67
4,4'-DDD	15.015	334174.45	43.0654	1.000	1	43.07
Endosulfan II	15.333	356974.44	42.1410	1.000	1	42.14
4,4'-DDT	15.697	294214.10	40.4018	1.000	1	40.40
Endrin aldehyde	16.381	274916.59	41.6990	1.000	1	41.70
Methoxychlor	16.933	675356.35	223.4411	1.000	1	223.44
Endosulfan sulfate	17.449	306050.64	42.2467	1.000	1	42.25
Endrin ketone	18.104	364378.31	41.3874	1.000	1	41.39
Decachlorobiphenyl	20.502	253162.80	49.5378	1.000	1	49.54
		6634761.05	899.4650			899.47

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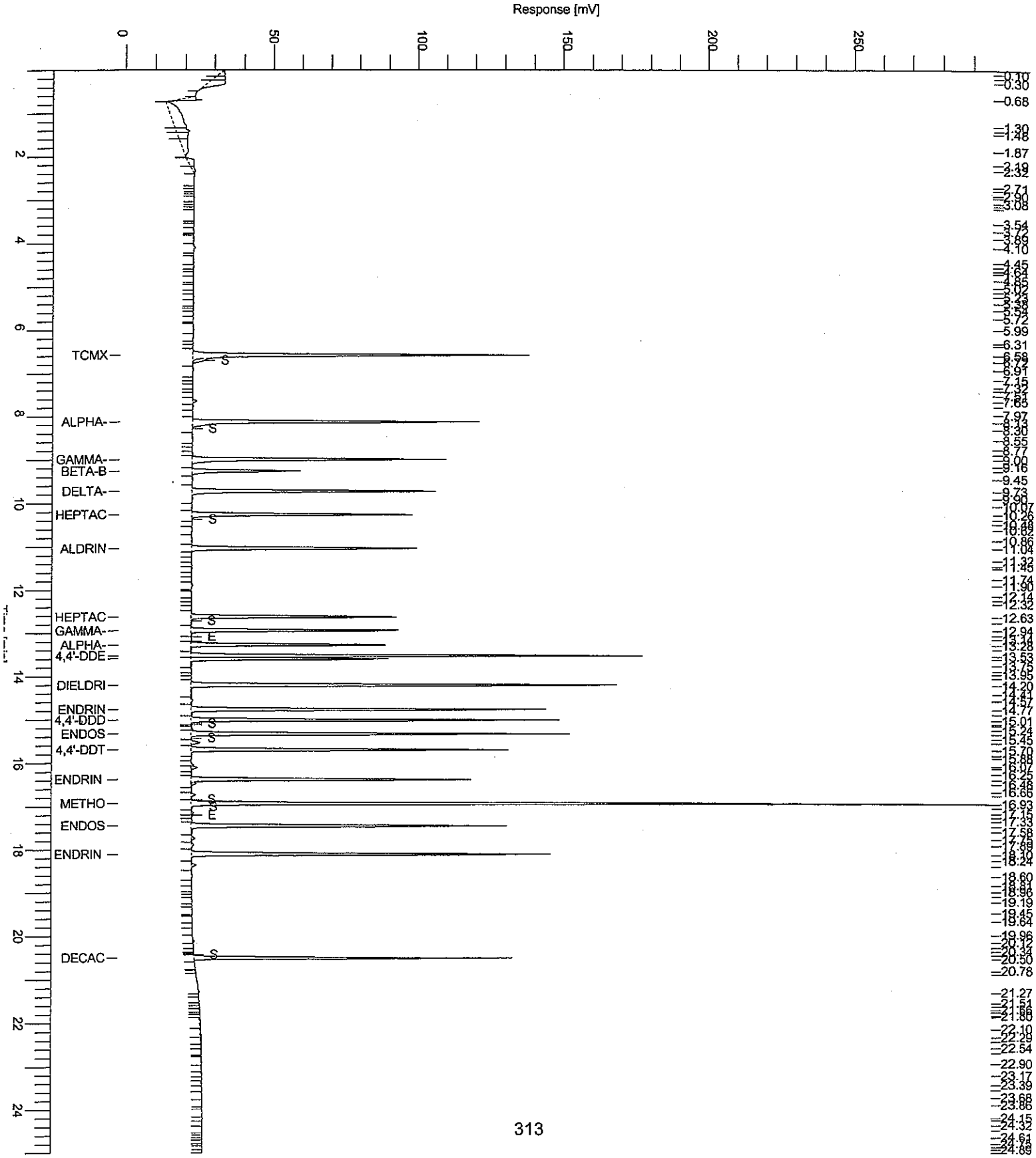
----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\317a021p.TX0

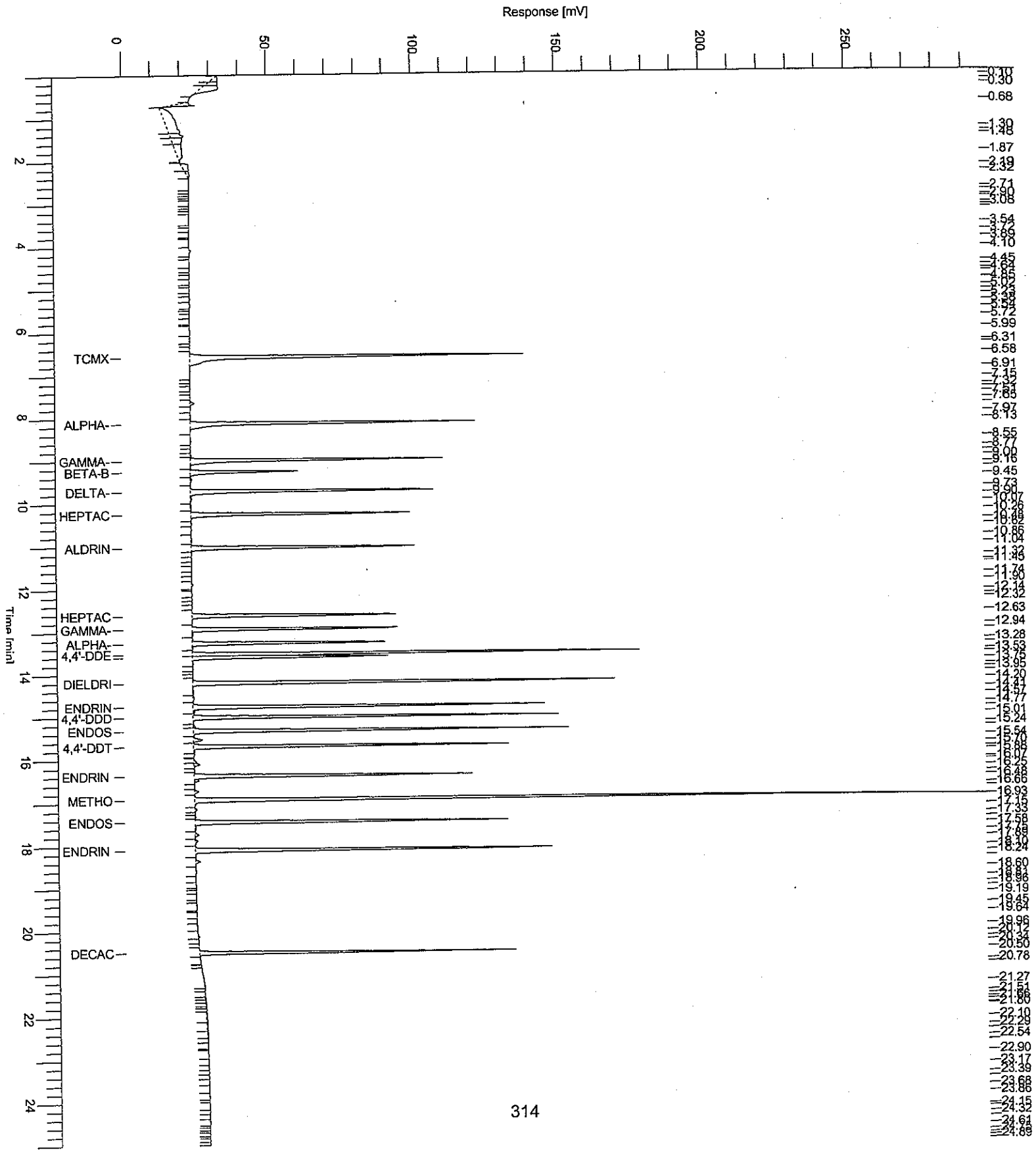
GC23 Rtx-CLPesticides

Sample Name : ical,04ws2052,pest_4 Sample #: level_4 Page 1 of 1
FileName : G:\gc23\CHa\317a021.raw
Date : 11/15/04 11:37:53 AM
Method : Time of Injection: 11/13/04 12:26:15 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.71 mV High Point : 296.41 mV
Plot Offset: -1.71 mV Plot Scale: 298.1 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws2052,pest_4 Sample #: level_4
ileName : G:\gc23\CHa\317a021.raw
ate : 11/15/04 10:36:37 AM
lethod : gc23ins Time of Injection: 11/13/04 12:26:15 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -0.96 mV High Point : 296.41 mV
cale Factor: 1.0 Plot Offset: -0.96 mV Plot Scale: 297.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2052,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 21

Date : 11/15/04 12:29:31 PM
Data Acquisition Time : 11/13/04 12:26:15 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b021p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.913	580063.00	45.8551	1.000	1	45.86
alpha-BHC	8.548	466203.23	22.7257	1.000	1	22.73
gamma-BHC	9.488	417757.00	22.3229	1.000	1	22.32
beta-BHC	9.719	172565.77	21.3444	1.000	1	21.34
delta-BHC	10.483	414919.00	22.1617	1.000	1	22.16
Heptachlor	10.623	311950.00	23.1513	1.000	1	23.15
Aldrin	11.438	381459.00	21.9661	1.000	1	21.97
Heptachlor epoxide	12.913	358693.32	22.2326	1.000	1	22.23
gamma-Chlordane	13.382	349609.45	21.4876	1.000	1	21.49
alpha-Chlordane	13.752	336668.37	21.3635	1.000	1	21.36
Endosulfan I	13.869	316378.63	21.4858	1.000	1	21.49
4,4'-DDE	14.235	746898.00	47.9213	1.000	1	47.92
Dieldrin	14.552	744642.00	48.4545	1.000	1	48.45
Endrin	15.295	562721.49	44.4025	1.000	1	44.40
4,4'-DDD	15.653	551992.50	46.7373	1.000	1	46.74
Endosulfan II	15.816	600918.00	45.0921	1.000	1	45.09
4,4'-DDT	16.417	513697.56	43.6867	1.000	1	43.69
Endrin aldehyde	16.655	431633.24	42.0536	1.000	1	42.05
Endosulfan sulfate	17.332	501445.68	43.5868	1.000	1	43.59
Methoxychlor	18.146	1136928.11	251.7296	1.000	1	251.73
Endrin ketone	18.611	647240.11	48.3500	1.000	1	48.35
Decachlorobiphenyl	21.269	405972.56	45.1999	1.000	1	45.20
		10950356.00	973.3109			973.31

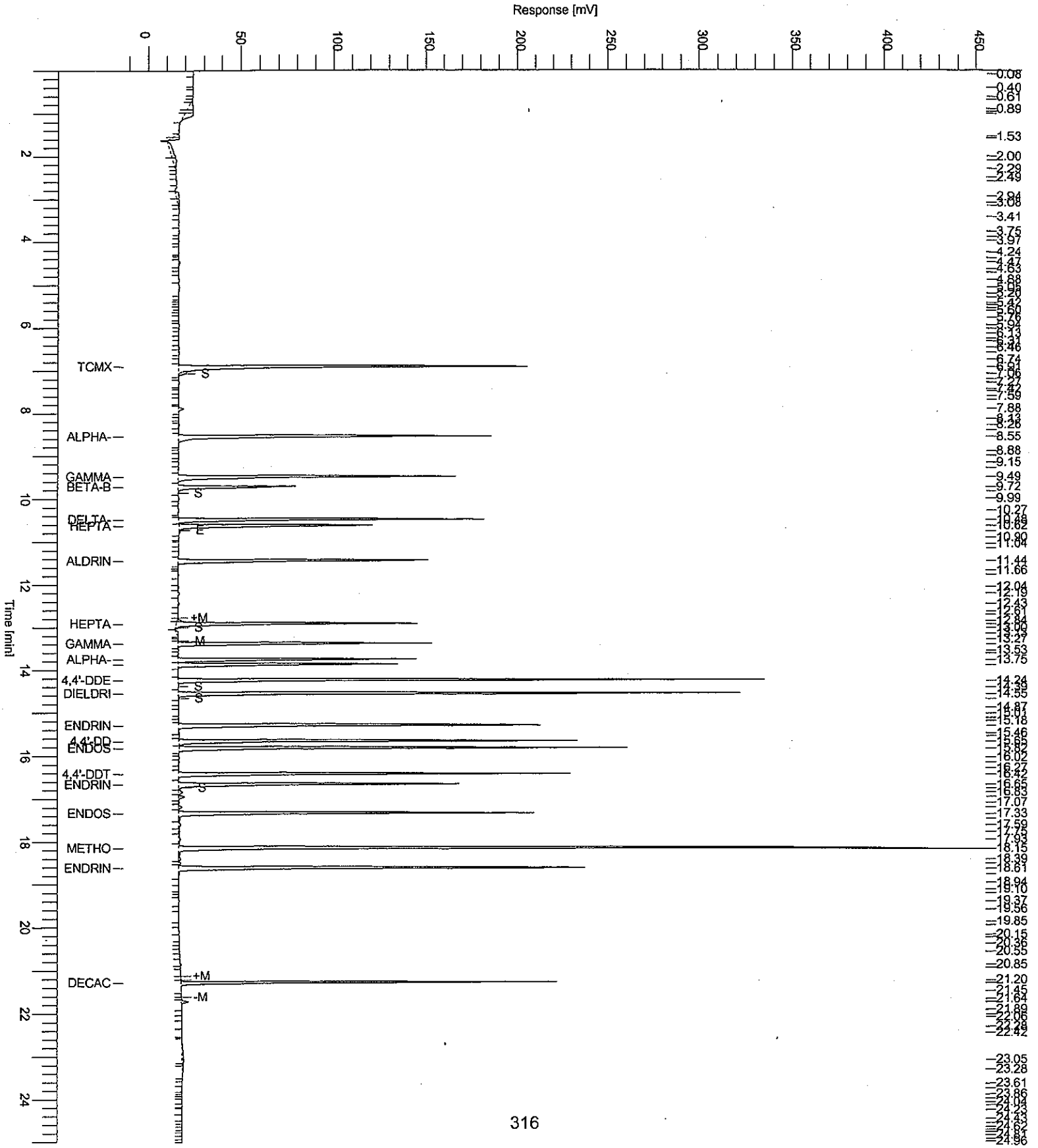
11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\317b021p.TX0

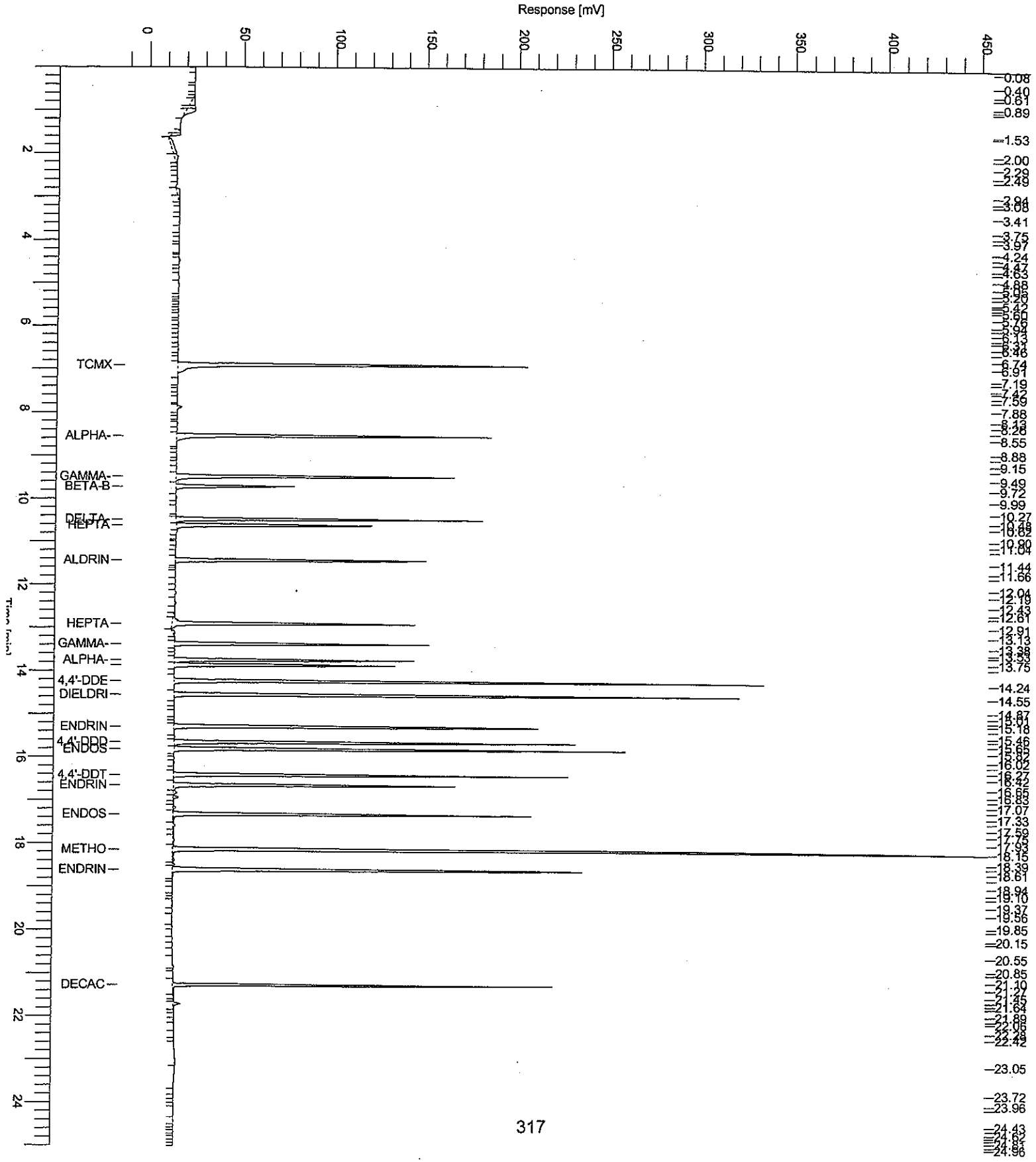
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws2052,pest_4 Sample #: level_4 Page 1 of 1
FileName : G:\gc23\CHb\317b021.raw
Date : 11/15/04 12:29:36 PM
Method : Time of Injection: 11/13/04 12:26:15 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -13.65 mV High Point : 455.69 mV
Plot Offset: -13.65 mV Plot Scale: 469.3 mV



GC23 Rtx-CLPesticides2

Sample Name : ical,04ws2052,pest_4 Sample #: level_4 Page 1 of 1
FileName : G:\gc23\CHb\317b021
Date : 11/15/04 10:35:46 AM
Method : gc23ins Time of Injection: 11/13/04 12:26:15 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -12.48 mV High Point : 455.69 mV
Scale Factor: 1.0 Plot Offset: -12.48 mV Plot Scale: 468.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2053,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 11/15/04 11:39:43 AM
Data Acquisition Time : 11/13/04 12:54:25 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a022p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.573	507232.23	57.7576	1.000	1	57.76
alpha-BHC	8.130	412694.52	29.1899	1.000	1	29.19
gamma-BHC	8.996	368406.79	29.0528	1.000	1	29.05
beta-BHC	9.265	152047.50	28.7350	1.000	1	28.74
delta-BHC	9.722	371077.95	29.7545	1.000	1	29.75
Heptachlor	10.263	324604.09	28.9474	1.000	1	28.95
Aldrin	11.036	339304.50	30.0274	1.000	1	30.03
Heptachlor epoxide	12.621	313149.07	30.3522	1.000	1	30.35
gamma-Chlordane	12.936	316793.07	30.8447	1.000	1	30.84
alpha-Chlordane	13.270	303718.00	30.8551	1.000	1	30.86
4,4'-DDE	13.528	674189.67	68.4604	1.000	1	68.46
Endosulfan I	13.598	279786.41	30.4813	1.000	1	30.48
Dieldrin	14.202	670494.53	66.8019	1.000	1	66.80
Endrin	14.766	535332.46	63.6210	1.000	1	63.62
4,4'-DDD	15.012	525712.13	67.7491	1.000	1	67.75
Endosulfan II	15.331	554917.23	65.5082	1.000	1	65.51
4,4'-DDT	15.694	476603.06	65.4476	1.000	1	65.45
Endrin aldehyde	16.378	418748.08	63.5151	1.000	1	63.52
Methoxychlor	16.931	1128928.54	373.5051	1.000	1	373.51
Endosulfan sulfate	17.447	476871.15	65.8265	1.000	1	65.83
Endrin ketone	18.101	580328.10	65.9157	1.000	1	65.92
Decachlorobiphenyl	20.500	389339.82	76.1843	1.000	1	76.18
		10120278.91	1398.5330			1398.53

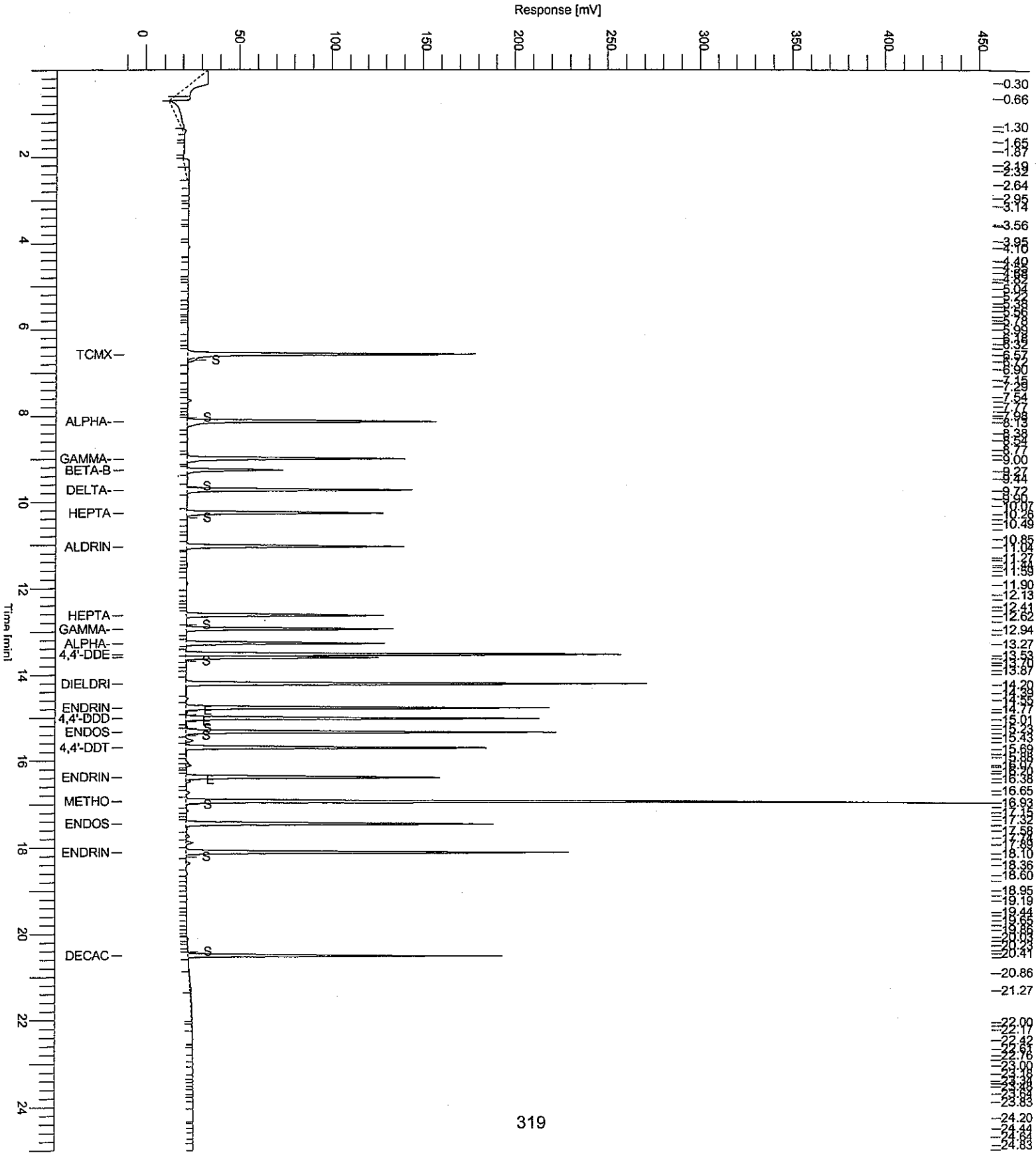
11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\317a022p.TX0

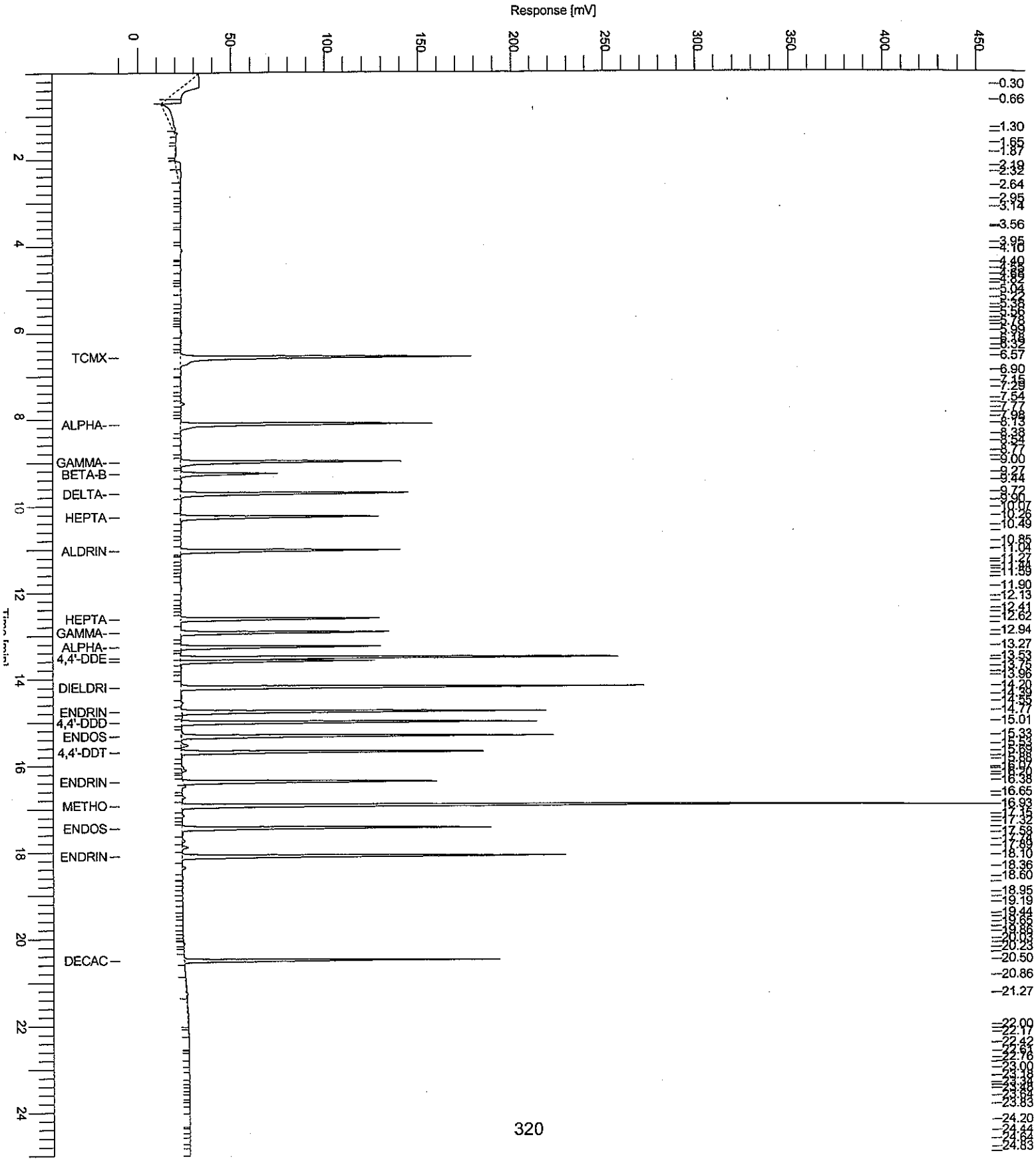
GC23 Rtx-CLPesticides

Sample Name : ical,04ws2053,pest_5 Sample #: level_5 Page 1 of 1
FileName : G:\gc23\CHa\317a022.raw
Date : 11/15/04 11:39:48 AM
Method : Time of Injection: 11/13/04 12:54:25 AM
Start Time : 0.00 min Ehd Time : 25.00 min Low Point : -11.21 mV High Point : 457.24 mV
Plot Offset: -11.21 mV Plot Scale: 468.4 mV



GC23 Rtx-CLPesticides

Sample Name : ical,04ws2053,pest_5 Sample #: level_5
FileName : G:\gc23\CHa\317a022.raw
Date : 11/15/04 10:36:45 AM
Method : gc23ins Time of Injection: 11/13/04 12:54:25 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -10.04 mV High Point : 457.24 mV
Scale Factor: 1.0 Plot Offset: -10.04 mV Plot Scale: 467.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws2053,pest_5
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 11/15/04 12:32:05 PM
Data Acquisition Time : 11/13/04 12:54:25 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b022p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.904	723103.19	57.1627	1.000	1	57.16
alpha-BHC	8.545	582453.21	28.3925	1.000	1	28.39
gamma-BHC	9.485	520834.00	27.8308	1.000	1	27.83
beta-BHC	9.717	210759.66	26.0686	1.000	1	26.07
delta-BHC	10.482	519098.00	27.7261	1.000	1	27.73
Heptachlor	10.620	386921.00	28.7152	1.000	1	28.72
Aldrin	11.436	480364.50	27.6615	1.000	1	27.66
Heptachlor epoxide	12.906	456035.50	28.2661	1.000	1	28.27
gamma-Chlordane	13.380	439151.75	26.9910	1.000	1	26.99
alpha-Chlordane	13.750	424452.58	26.9339	1.000	1	26.93
Endosulfan I	13.867	394826.42	26.8133	1.000	1	26.81
4,4'-DDE	14.234	943512.29	60.5362	1.000	1	60.54
Dieldrin	14.550	939984.88	61.1656	1.000	1	61.17
Endrin	15.287	714707.81	56.3953	1.000	1	56.40
4,4'-DDD	15.652	726084.50	61.4777	1.000	1	61.48
Endosulfan II	15.814	775654.00	58.2041	1.000	1	58.20
4,4'-DDT	16.415	677952.81	57.6556	1.000	1	57.66
Endrin aldehyde	16.653	542598.65	52.8649	1.000	1	52.86
Endosulfan sulfate	17.330	637999.10	55.4563	1.000	1	55.46
Methoxychlor	18.138	1396819.01	309.2726	1.000	1	309.27
Endrin ketone	18.602	950735.07	71.0216	1.000	1	71.02
Decachlorobiphenyl	21.268	542144.08	60.3609	1.000	1	60.36
		13986192.00	1236.9723			1236.97

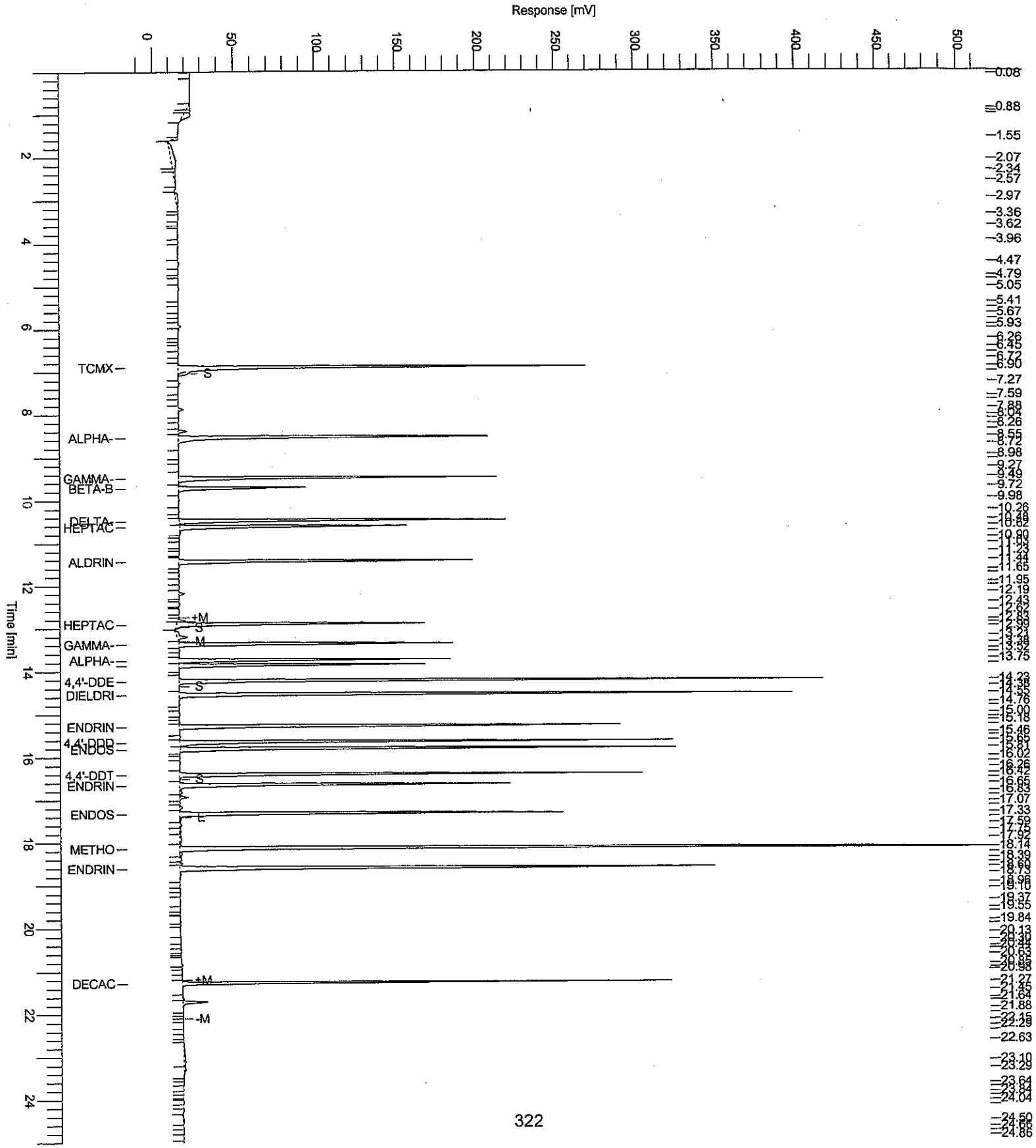
GL 11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\317b022p.TX0

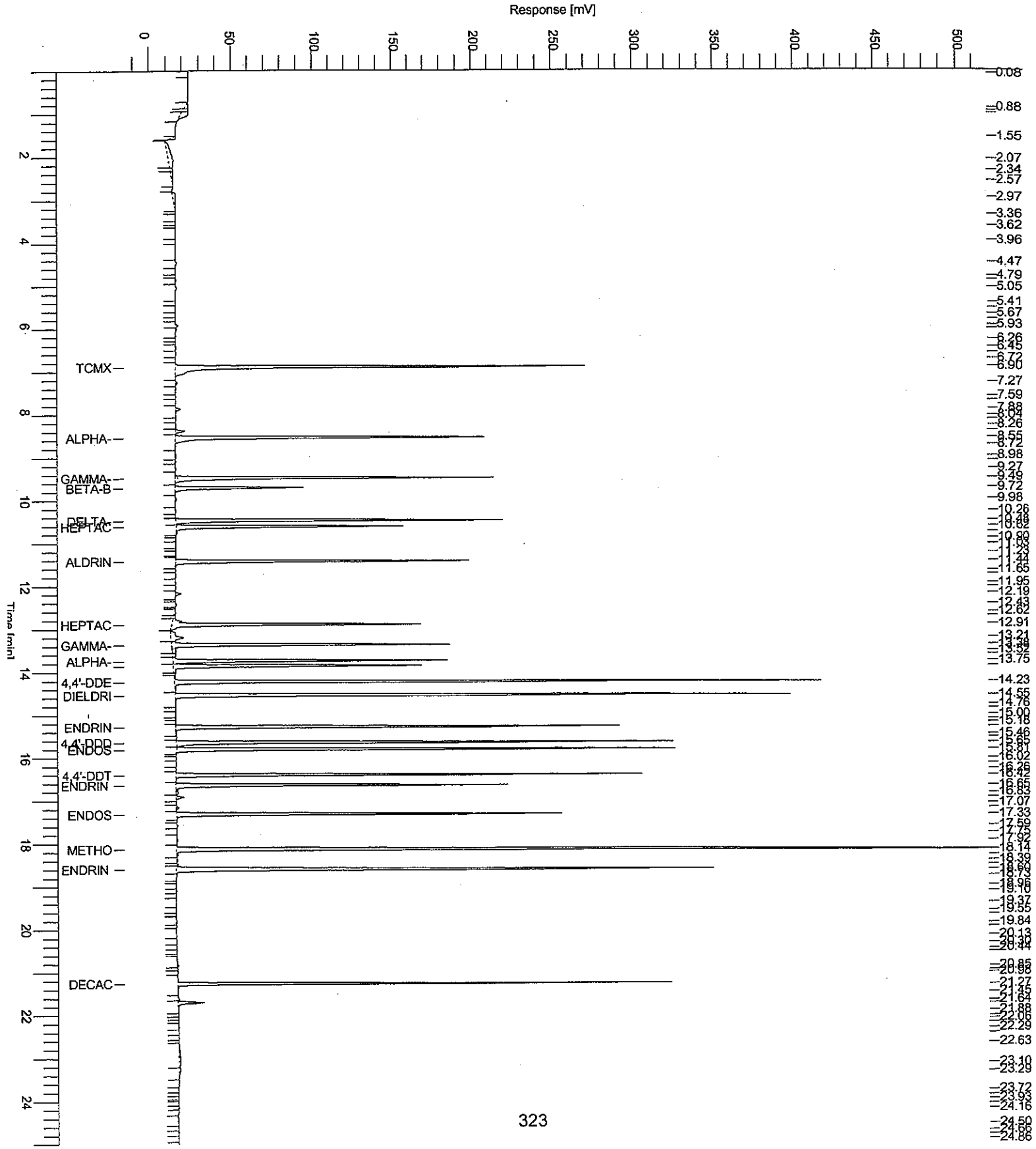
GC23 Rtx-CLPesticides2

Sample Name : ical,04ws2053,pest_5 Sample #: level_5 Page 1 of 1
FileName : G:\gc23\CHb\317b022.raw
Date : 11/15/04 12:32:10 PM
Method :
Time of Injection: 11/13/04 12:54:25 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -16.90 mV High Point : 519.52 mV
Plot Offset: -16.90 mV Plot Scale: 536.4 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws2053,pest_5 Sample #: level_5 Page 1 of 1
ileName : G:\gc23\CHb\317b022
ate : 11/15/04 10:35:52 AM
lethod : gc23ins Time of Injection: 11/13/04 12:54:25 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -15.56 mV High Point : 519.52 mV
cale Factor: 1.0 Plot Offset: -15.56 mV Plot Scale: 535.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 11/15/04 11:42:11 AM
Data Acquisition Time : 11/13/04 1:22:46 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a023p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.579	1010204.75	115.0301	1.000	1	115.03
alpha-BHC	8.131	818938.87	57.9236	1.000	1	57.92
gamma-BHC	8.996	703188.20	55.4538	1.000	1	55.45
beta-BHC	9.265	269215.82	50.8784	1.000	1	50.88
delta-BHC	9.722	705541.23	56.5732	1.000	1	56.57
Heptachlor	10.263	597027.18	53.2414	1.000	1	53.24
Aldrin	11.037	619965.60	54.8651	1.000	1	54.87
Heptachlor epoxide	12.621	557605.57	54.0463	1.000	1	54.05
gamma-Chlordane	12.937	563751.19	54.8899	1.000	1	54.89
alpha-Chlordane	13.271	533871.81	54.2368	1.000	1	54.24
4,4'-DDE	13.529	1244014.64	126.3232	1.000	1	126.32
Endosulfan I	13.599	486912.61	53.0467	1.000	1	53.05
Dieldrin	14.203	1238881.14	123.4308	1.000	1	123.43
Endrin	14.767	989802.16	117.6320	1.000	1	117.63
4,4'-DDD	15.013	982929.57	126.6712	1.000	1	126.67
Endosulfan II	15.331	1027471.64	121.2934	1.000	1	121.29
4,4'-DDT	15.694	887802.14	121.9139	1.000	1	121.91
Endrin aldehyde	16.378	746451.26	113.2207	1.000	1	113.22
Methoxychlor	16.931	1794450.44	593.6925	1.000	1	593.69
Endosulfan sulfate	17.447	852755.65	117.7130	1.000	1	117.71
Endrin ketone	18.101	1071200.17	121.6707	1.000	1	121.67
Decachlorobiphenyl	20.500	661586.41	129.4563	1.000	1	129.46
		18363568.05	2473.2027			2473.20

11/15/04

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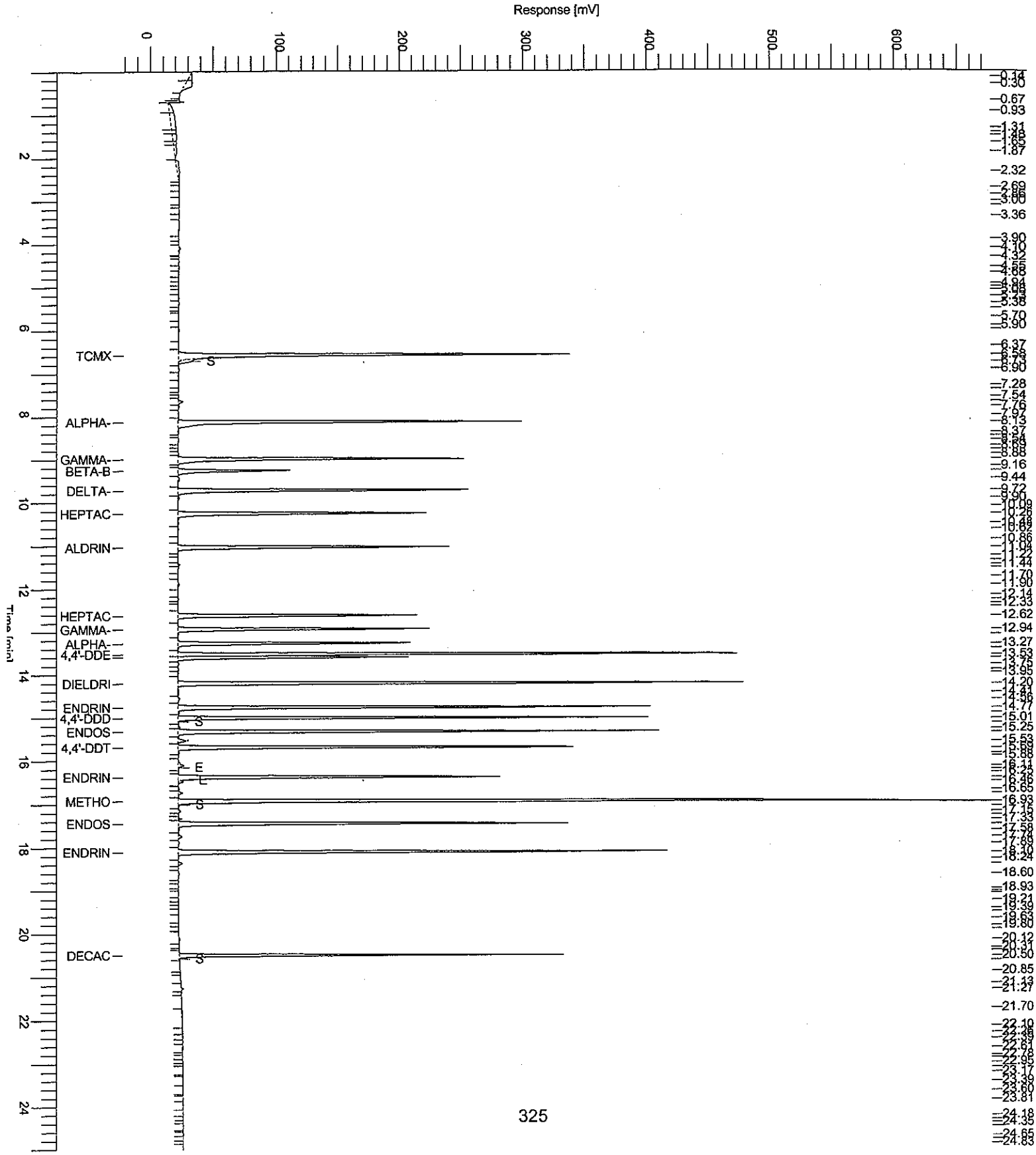
Report stored in ASCII file: G:\gc23\CHA\317a023p.TX0

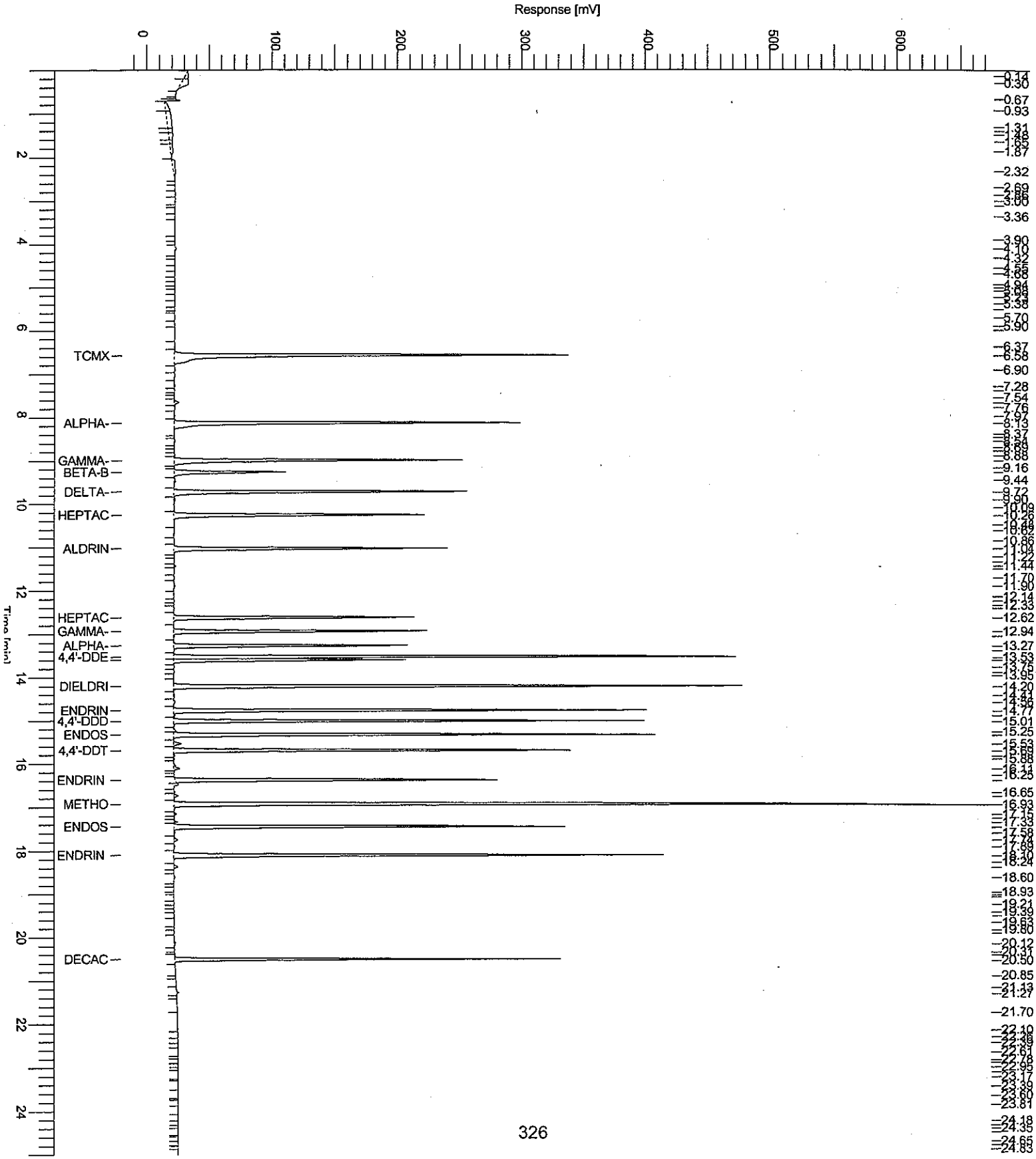
GC23 Rtx-CLPesticides

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
ileName : G:\gc23\CHa\317a023.raw
ate : 11/15/04 11:42:16 AM
lethod :
Time of Injection: 11/13/04 1:22:46 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -21.04 mV High Point : 677.11 mV
lot Offset: -21.04 mV Plot Scale: 698.1 mV



GC23 Rtx-CLPesticides

Sample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
FileName : G:\gc23\CHa\317a023.raw
Date : 11/15/04 10:36:51 AM
Method : gc23ins Time of Injection: 11/13/04 1:22:46 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -19.29 mV High Point : 677.11 mV
Scale Factor: 1.0 Plot Offset: -19.29 mV Plot Scale: 696.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1634,pest_6
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 11/15/04 12:33:41 PM
Data Acquisition Time : 11/13/04 1:22:46 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b023p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.904	1530701.17	121.0050	1.000	1	121.00
alpha-BHC	8.545	1284029.30	62.5918	1.000	1	62.59
gamma-BHC	9.485	1156935.00	61.8210	1.000	1	61.82
beta-BHC	9.717	428785.24	53.0358	1.000	1	53.04
delta-BHC	10.481	1156464.50	61.7691	1.000	1	61.77
Heptachlor	10.620	891348.00	66.1511	1.000	1	66.15
Aldrin	11.436	1068428.00	61.5248	1.000	1	61.52
Heptachlor epoxide	12.905	973778.99	60.3570	1.000	1	60.36
gamma-Chlordane	13.381	997476.12	61.3065	1.000	1	61.31
alpha-Chlordane	13.751	952210.17	60.4231	1.000	1	60.42
Endosulfan I	13.867	883396.33	59.9928	1.000	1	59.99
4,4'-DDE	14.234	1881393.15	120.7111	1.000	1	120.71
Dieldrin	14.550	1849081.99	120.3214	1.000	1	120.32
Endrin	15.288	1551499.70	122.4238	1.000	1	122.42
4,4'-DDD	15.652	1465674.00	124.0989	1.000	1	124.10
Endosulfan II	15.814	1565725.50	117.4901	1.000	1	117.49
4,4'-DDT	16.415	1445113.57	122.8977	1.000	1	122.90
Endrin aldehyde	16.652	1165317.71	113.5358	1.000	1	113.54
Endosulfan sulfate	17.330	1372202.39	119.2750	1.000	1	119.27
Methoxychlor	18.139	2538490.45	562.0524	1.000	1	562.05
Endrin ketone	18.605	1563727.00	116.8131	1.000	1	116.81
Decachlorobiphenyl	21.268	1110808.08	123.6744	1.000	1	123.67
		28832586.37	2493.2714			2493.27

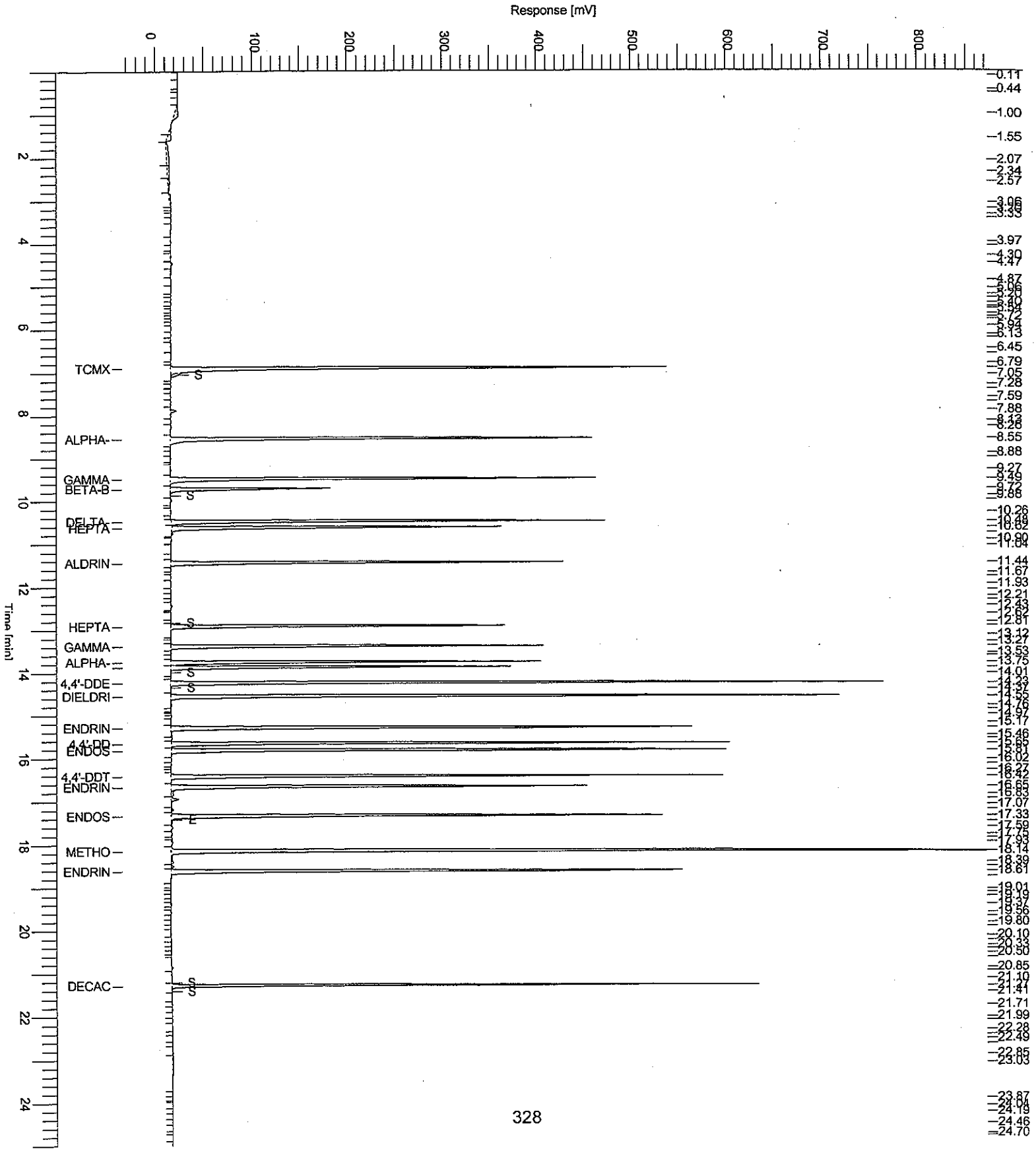
CL 11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\317b023p.TX0

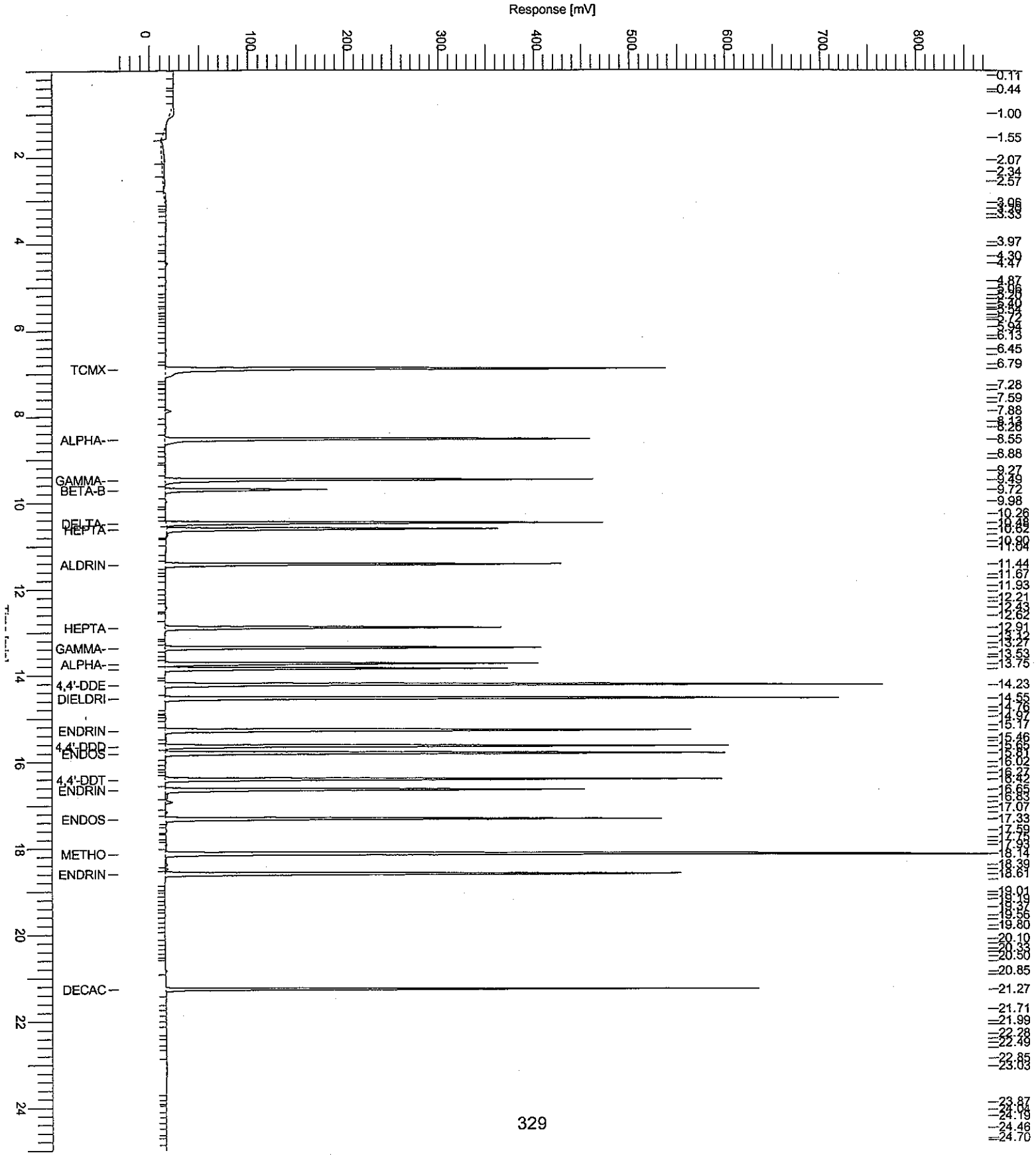
GC23 Rtx-CLPesticides2

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
ileName : G:\gc23\CHb\317b023.raw
ate : 11/15/04 12:33:46 PM
lethod :
Time of Injection: 11/13/04 1:22:46 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -34.28 mV High Point : 873.24 mV
lot Offset: -34.28 mV Plot Scale: 907.5 mV



GC23 Rtx-CLPesticides2

ample Name : ical,04ws1634,pest_6 Sample #: level_6 Page 1 of 1
ileName : G:\gc23\CHb\317b023
ate : 11/15/04 10:35:57 AM
lethod : gc23ins Time of Injection: 11/13/04 1:22:46 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -32.02 mV High Point : 873.24 mV
cale Factor: 1.0 Plot Offset: -32.02 mV Plot Scale: 905.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 24

Date : 11/15/04 11:44:56 AM
Data Acquisition Time : 11/13/04 1:51:04 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a024p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.578	2360316.63	268.7648	1.000	1	268.76
alpha-BHC	8.130	2053002.29	145.2089	1.000	1	145.21
gamma-BHC	8.995	1836857.11	144.8556	1.000	1	144.86
beta-BHC	9.264	660673.36	124.8589	1.000	1	124.86
delta-BHC	9.721	1851835.78	148.4877	1.000	1	148.49
Heptachlor	10.261	1626583.15	145.0547	1.000	1	145.05
Aldrin	11.035	1652559.66	146.2465	1.000	1	146.25
Heptachlor epoxide	12.619	1502653.11	145.6456	1.000	1	145.65
gamma-Chlordane	12.935	1560282.07	151.9176	1.000	1	151.92
alpha-Chlordane	13.269	1465601.02	148.8925	1.000	1	148.89
4,4'-DDE	13.522	2761572.78	280.4232	1.000	1	280.42
Endosulfan I	13.598	1349730.57	147.0464	1.000	1	147.05
Dieldrin	14.201	2791791.75	278.1485	1.000	1	278.15
Endrin	14.765	2374863.43	282.2381	1.000	1	282.24
4,4'-DDD	15.011	2395007.10	308.6471	1.000	1	308.65
Endosulfan II	15.329	2448919.04	289.0958	1.000	1	289.10
4,4'-DDT	15.688	2288990.54	314.3264	1.000	1	314.33
Endrin aldehyde	16.372	1953797.61	296.3492	1.000	1	296.35
Methoxychlor	16.928	3288348.11	1087.9474	1.000	1	1087.95
Endosulfan sulfate	17.445	2248434.41	310.3703	1.000	1	310.37
Endrin ketone	18.099	2532430.02	287.6423	1.000	1	287.64
Decachlorobiphenyl	20.500	1941243.13	379.8540	1.000	1	379.85
		44945492.64	5832.0214			5832.02

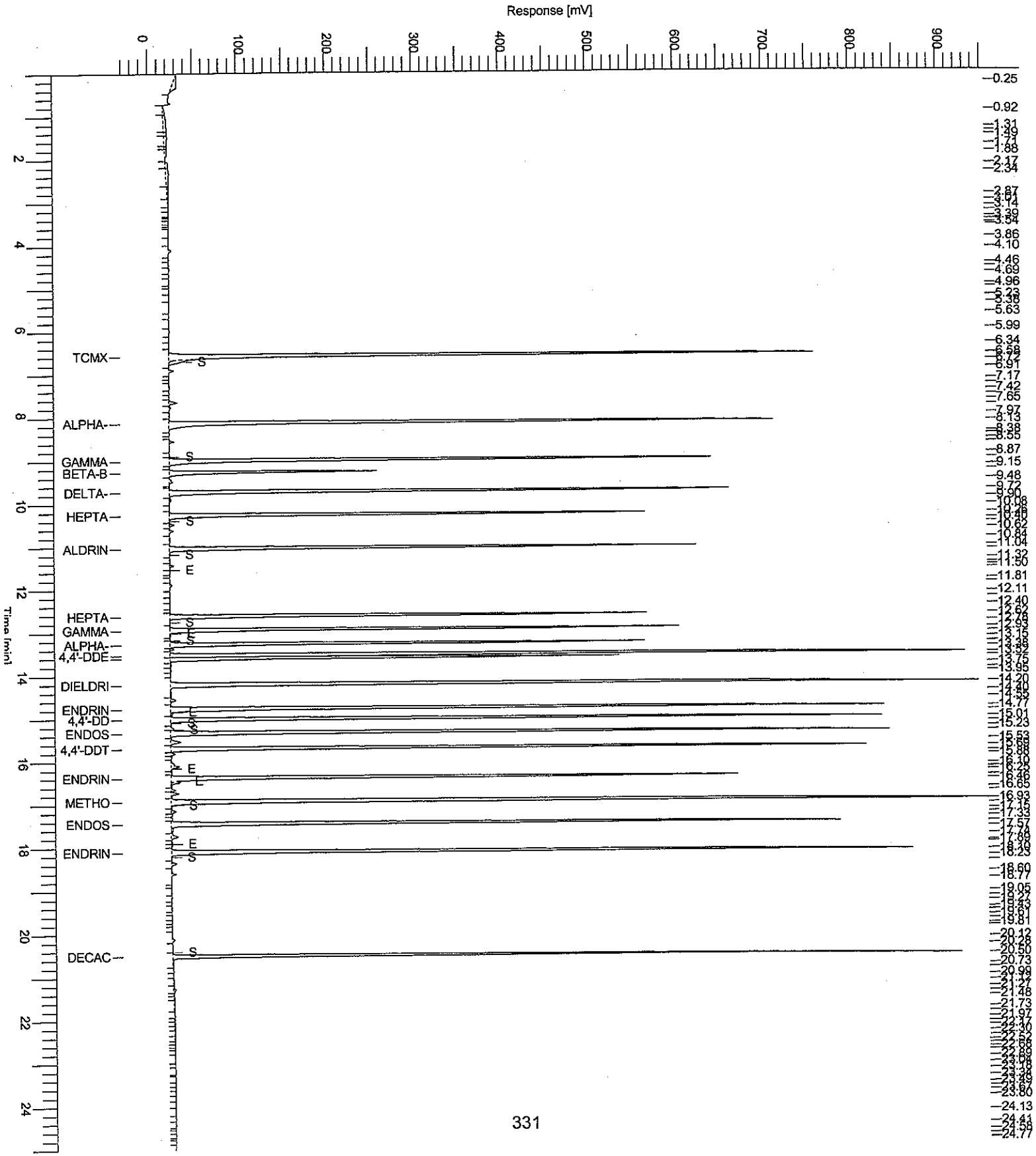
11/15/04

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\317a024p.TX0

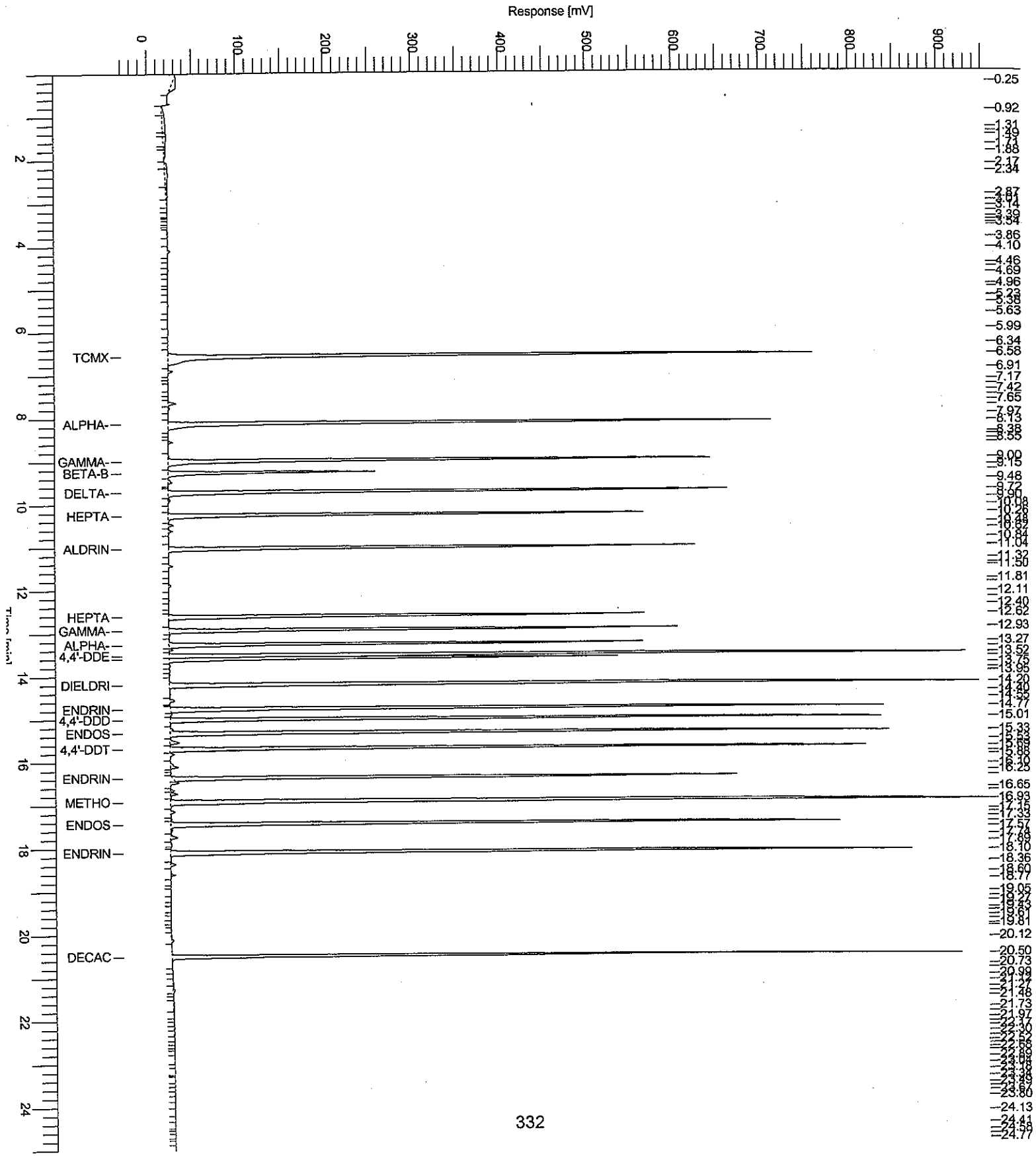
GC23 Rtx-CLPesticides

ample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
leName : G:\gc23\CHa\317a024.raw
ate : 11/15/04 11:45:02 AM
ethod :
Time of Injection: 11/13/04 1:51:04 AM
tart Time : 0.00 min Ehd Time : 25.00 min Low Point : -32.71 mV High Point : 955.63 mV
lot Offset: -32.71 mV Plot Scale: 988.3 mV



GC23 Rtx-CLPesticides

ample Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
leName : G:\gc23\CHa\317a024.raw
ate : 11/15/04 10:36:56 AM
ethod : gc23ins Time of Injection: 11/13/04 1:51:04 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -30.24 mV High Point : 955.63 mV
cale Factor: 1.0 Plot Offset: -30.24 mV Plot Scale: 985.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ical,04ws1635,pest_7
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 24

Date : 11/15/04 12:35:03 PM
Data Acquisition Time : 11/13/04 1:51:04 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b024p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.906	2866792.74	226.6257	1.000	1	226.63
alpha-BHC	8.545	2497379.50	121.7382	1.000	1	121.74
gamma-BHC	9.485	2263136.00	120.9309	1.000	1	120.93
beta-BHC	9.717	936174.50	115.7940	1.000	1	115.79
delta-BHC	10.481	2240496.00	119.6694	1.000	1	119.67
Heptachlor	10.620	1768263.00	131.2310	1.000	1	131.23
Aldrin	11.436	2029466.50	116.8656	1.000	1	116.87
Heptachlor epoxide	12.905	1800301.11	111.5866	1.000	1	111.59
gamma-Chlordane	13.379	1871749.91	115.0408	1.000	1	115.04
alpha-Chlordane	13.750	1769953.30	112.3134	1.000	1	112.31
Endosulfan I	13.866	1617811.13	109.8680	1.000	1	109.87
4,4'-DDE	14.233	2836181.84	181.9708	1.000	1	181.97
Dieldrin	14.548	2937091.09	191.1191	1.000	1	191.12
Endrin	15.286	2635662.97	207.9716	1.000	1	207.97
4,4'-DDD	15.650	2467291.00	208.9060	1.000	1	208.91
Endosulfan II	15.813	2646694.50	198.6047	1.000	1	198.60
4,4'-DDT	16.413	2503603.52	212.9155	1.000	1	212.92
Endrin aldehyde	16.651	2063649.63	201.0594	1.000	1	201.06
Endosulfan sulfate	17.327	2473157.29	214.9725	1.000	1	214.97
Methoxychlor	18.138	3243452.38	718.1394	1.000	1	718.14
Endrin ketone	18.603	2625217.34	196.1083	1.000	1	196.11
Decachlorobiphenyl	21.269	1875481.79	208.8112	1.000	1	208.81
		49969007.05	4142.2422			4142.24

AJ 11/15/04

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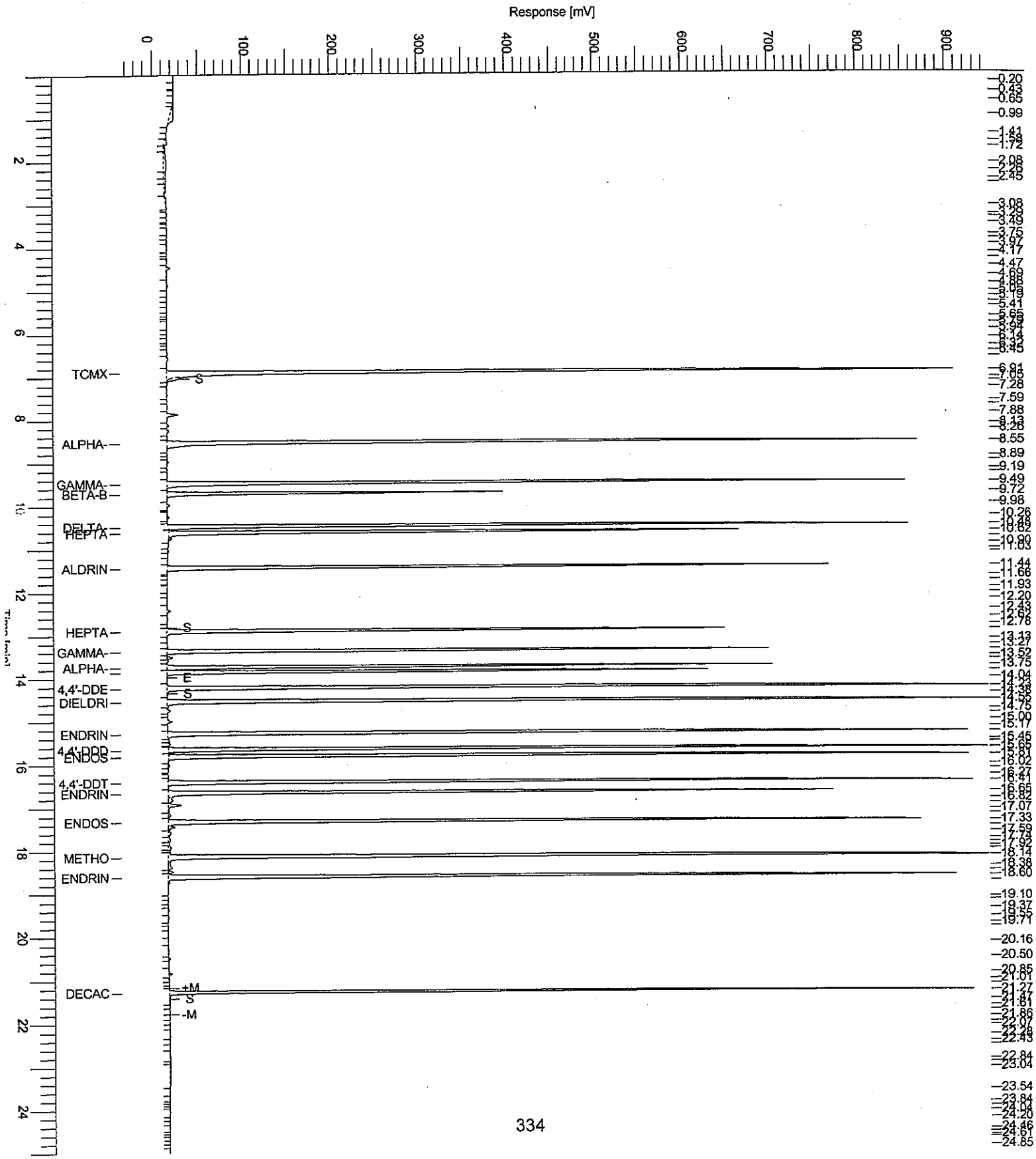
Report stored in ASCII file: G:\gc23\CHB\317b024p.TX0

GC23 Rtx-CLPesticides2

ımple Name : ical,04ws1635,pest_7 Sample #: level_7 Page 1 of 1
eName : G:\gc23\CHb\317b024.raw
ıte : 11/15/04 12:35:08 PM
ethod :
Time of Injection: 11/13/04 1:51:04 AM
art Time : 0.00 min End Time : 25.00 min Low Point : -36.33 mV High Point : 949.19 mV
ot Offset: -36.33 mV Plot Scale: 985.5 mV



GC23 Rtx-CLPesticides2

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ethod : gc23ins Time of Injection: 11/13/04 1:51:04 AM
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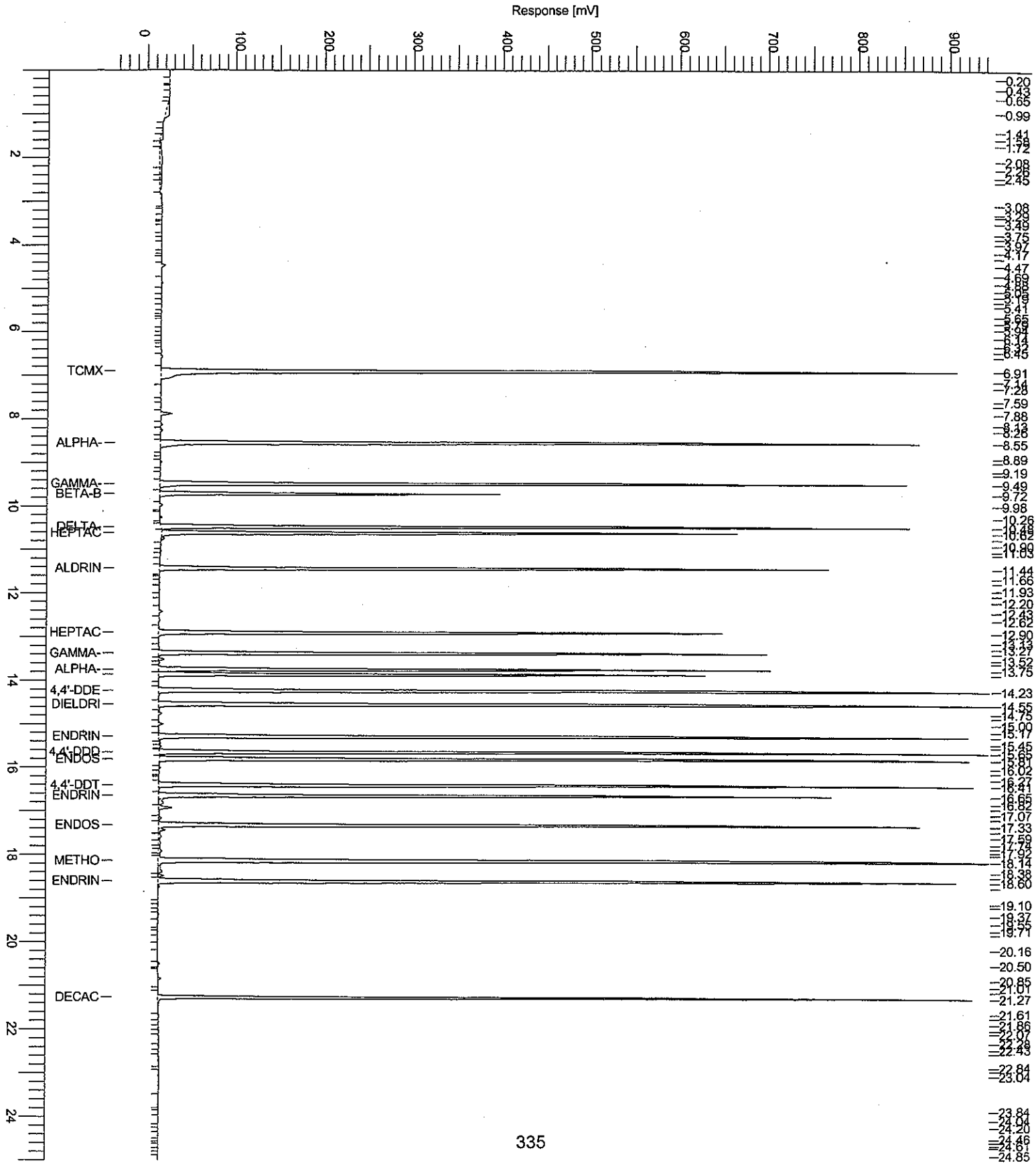

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :

ICV 804457447026 (317_026) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	804457447026	13-NOV-2004	25.000	25.059	pg	0	15
gamma-BHC	A	804457447026	13-NOV-2004	25.000	24.857	pg	-1	15
beta-BHC	A	804457447026	13-NOV-2004	25.000	24.296	pg	-3	15
delta-BHC	A	804457447026	13-NOV-2004	25.000	24.913	pg	0	15
Heptachlor	A	804457447026	13-NOV-2004	25.000	24.806	pg	-1	15
Aldrin	A	804457447026	13-NOV-2004	25.000	24.868	pg	-1	15
Heptachlor epoxide	A	804457447026	13-NOV-2004	25.000	23.852	pg	-5	15
gamma-Chlordane	A	804457447026	13-NOV-2004	25.000	23.504	pg	-6	15
alpha-Chlordane	A	804457447026	13-NOV-2004	25.000	23.629	pg	-5	15
4,4'-DDE	A	804457447026	13-NOV-2004	25.000	23.673	pg	-5	15
Endosulfan I	A	804457447026	13-NOV-2004	25.000	24.887	pg	0	15
Dieldrin	A	804457447026	13-NOV-2004	25.000	23.950	pg	-4	15
Endrin	A	804457447026	13-NOV-2004	25.000	23.416	pg	-6	15
4,4'-DDD	A	804457447026	13-NOV-2004	25.000	23.604	pg	-6	15
Endosulfan II	A	804457447026	13-NOV-2004	25.000	23.827	pg	-5	15
4,4'-DDT	A	804457447026	13-NOV-2004	25.000	23.552	pg	-6	15
Endrin aldehyde	A	804457447026	13-NOV-2004	25.000	22.135	pg	-11	15
Methoxychlor	A	804457447026	13-NOV-2004	25.000	25.572	pg	2	15
Endosulfan sulfate	A	804457447026	13-NOV-2004	25.000	23.746	pg	-5	15
Endrin ketone	A	804457447026	13-NOV-2004	25.000	23.597	pg	-6	15
TCMX	A	804457447026	13-NOV-2004	25.000	29.891	pg	20	15
Decachlorobiphenyl	A	804457447026	13-NOV-2004	25.000	27.551	pg	10	15
alpha-BHC	B	804457447026	13-NOV-2004	25.000	24.246	pg	-3	15
gamma-BHC	B	804457447026	13-NOV-2004	25.000	24.313	pg	-3	15
beta-BHC	B	804457447026	13-NOV-2004	25.000	23.109	pg	-8	15
delta-BHC	B	804457447026	13-NOV-2004	25.000	25.138	pg	1	15
Heptachlor	B	804457447026	13-NOV-2004	25.000	24.163	pg	-3	15
Aldrin	B	804457447026	13-NOV-2004	25.000	24.848	pg	-1	15
Heptachlor epoxide	B	804457447026	13-NOV-2004	25.000	23.630	pg	-5	15
gamma-Chlordane	B	804457447026	13-NOV-2004	25.000	23.729	pg	-5	15
alpha-Chlordane	B	804457447026	13-NOV-2004	25.000	24.034	pg	-4	15
4,4'-DDE	B	804457447026	13-NOV-2004	25.000	24.651	pg	-1	15
Endosulfan I	B	804457447026	13-NOV-2004	25.000	24.382	pg	-2	15
Dieldrin	B	804457447026	13-NOV-2004	25.000	24.525	pg	-2	15
Endrin	B	804457447026	13-NOV-2004	25.000	23.973	pg	-4	15
4,4'-DDD	B	804457447026	13-NOV-2004	25.000	22.820	pg	-9	15
Endosulfan II	B	804457447026	13-NOV-2004	25.000	24.459	pg	-2	15
4,4'-DDT	B	804457447026	13-NOV-2004	25.000	24.860	pg	-1	15
Endrin aldehyde	B	804457447026	13-NOV-2004	25.000	22.369	pg	-11	15
Methoxychlor	B	804457447026	13-NOV-2004	25.000	28.664	pg	15	15
Endosulfan sulfate	B	804457447026	13-NOV-2004	25.000	24.285	pg	-3	15
Endrin ketone	B	804457447026	13-NOV-2004	25.000	22.569	pg	-10	15
TCMX	B	804457447026	13-NOV-2004	25.000	28.807	pg	15	15
Decachlorobiphenyl	B	804457447026	13-NOV-2004	25.000	26.313	pg	5	15

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	5	15	

11/15/04

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :

ICV 804457447026 (317_026) standards: 04WS2099

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	B	22	5	15	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC23 Run Name :
Seqnum : 804457447026 Filename : 317_026 Injected : 13-NOV-2004 02:47
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :
Standards: 04WS2099

Analyte	Ch	SpkAmt	QuantAmt	Units	%D	Max	Flags
alpha-BHC	A	25.00000	25.05925	pg	0	15	
gamma-BHC	A	25.00000	24.85671	pg	-1	15	
beta-BHC	A	25.00000	24.29567	pg	-3	15	
delta-BHC	A	25.00000	24.91274	pg	0	15	
Heptachlor	A	25.00000	24.80588	pg	-1	15	
Aldrin	A	25.00000	24.86832	pg	-1	15	
Heptachlor epoxide	A	25.00000	23.85166	pg	-5	15	
gamma-Chlordane	A	25.00000	23.50398	pg	-6	15	
alpha-Chlordane	A	25.00000	23.62854	pg	-5	15	
4,4'-DDE	A	25.00000	23.67272	pg	-5	15	
Endosulfan I	A	25.00000	24.88660	pg	0	15	
Dieldrin	A	25.00000	23.95031	pg	-4	15	
Endrin	A	25.00000	23.41626	pg	-6	15	
4,4'-DDD	A	25.00000	23.60444	pg	-6	15	
Endosulfan II	A	25.00000	23.82688	pg	-5	15	
4,4'-DDT	A	25.00000	23.55202	pg	-6	15	
Endrin aldehyde	A	25.00000	22.13480	pg	-11	15	
Methoxychlor	A	25.00000	25.57234	pg	2	15	
Endosulfan sulfate	A	25.00000	23.74570	pg	-5	15	
Endrin ketone	A	25.00000	23.59705	pg	-6	15	
TCMX	A	25.00000	29.89147	pg	20	15	
Decachlorobiphenyl	A	25.00000	27.55078	pg	10	15	
alpha-BHC	B	25.00000	24.24630	pg	-3	15	
gamma-BHC	B	25.00000	24.31281	pg	-3	15	
beta-BHC	B	25.00000	23.10897	pg	-8	15	
delta-BHC	B	25.00000	25.13838	pg	1	15	
Heptachlor	B	25.00000	24.16292	pg	-3	15	
Aldrin	B	25.00000	24.84793	pg	-1	15	
Heptachlor epoxide	B	25.00000	23.62965	pg	-5	15	
gamma-Chlordane	B	25.00000	23.72918	pg	-5	15	
alpha-Chlordane	B	25.00000	24.03440	pg	-4	15	
4,4'-DDE	B	25.00000	24.65118	pg	-1	15	
Endosulfan I	B	25.00000	24.38228	pg	-2	15	
Dieldrin	B	25.00000	24.52532	pg	-2	15	
Endrin	B	25.00000	23.97294	pg	-4	15	
4,4'-DDD	B	25.00000	22.81958	pg	-9	15	
Endosulfan II	B	25.00000	24.45941	pg	-2	15	
4,4'-DDT	B	25.00000	24.85979	pg	-1	15	
Endrin aldehyde	B	25.00000	22.36888	pg	-11	15	
Methoxychlor	B	25.00000	28.66423	pg	15	15	
Endosulfan sulfate	B	25.00000	24.28463	pg	-3	15	
Endrin ketone	B	25.00000	22.56901	pg	-10	15	
TCMX	B	25.00000	28.80670	pg	15	15	
Decachlorobiphenyl	B	25.00000	26.31344	pg	5	15	

Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws2099
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 26

Date : 11/15/04 1:09:29 PM
Data Acquisition Time : 11/13/04 2:47:43 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a026p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.581	320818.37	29.8915	1.000	1	29.89
alpha-BHC	8.133	432221.12	25.0592	1.000	1	25.06
gamma-BHC	8.999	385968.29	24.8567	1.000	1	24.86
beta-BHC	9.268	157094.30	24.2957	1.000	1	24.30
delta-BHC	9.730	390213.63	24.9127	1.000	1	24.91
Heptachlor	10.266	339004.37	24.8059	1.000	1	24.81
Aldrin	11.040	353767.00	24.8683	1.000	1	24.87
Heptachlor epoxide	12.628	312010.50	23.8517	1.000	1	23.85
gamma-Chlordane	12.939	310342.46	23.5040	1.000	1	23.50
alpha-Chlordane	13.278	302919.95	23.6285	1.000	1	23.63
4,4'-DDE	13.531	306094.08	23.6727	1.000	1	23.67
Endosulfan I	13.601	289914.84	24.8866	1.000	1	24.89
Dieldrin	14.205	312262.98	23.9503	1.000	1	23.95
Endrin	14.769	252977.84	23.4163	1.000	1	23.42
4,4'-DDD	15.015	247926.16	23.6044	1.000	1	23.60
Endosulfan II	15.333	267267.76	23.8269	1.000	1	23.83
4,4'-DDT	15.697	223954.74	23.5520	1.000	1	23.55
Endrin aldehyde	16.381	194653.17	22.1348	1.000	1	22.13
Methoxychlor	16.933	101711.51	25.5723	1.000	1	25.57
Endosulfan sulfate	17.449	233279.30	23.7457	1.000	1	23.75
Endrin ketone	18.103	273639.34	23.5971	1.000	1	23.60
Decachlorobiphenyl	20.502	216655.45	27.5508	1.000	1	27.55
		6224697.16	539.1841			539.18

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11/15/04

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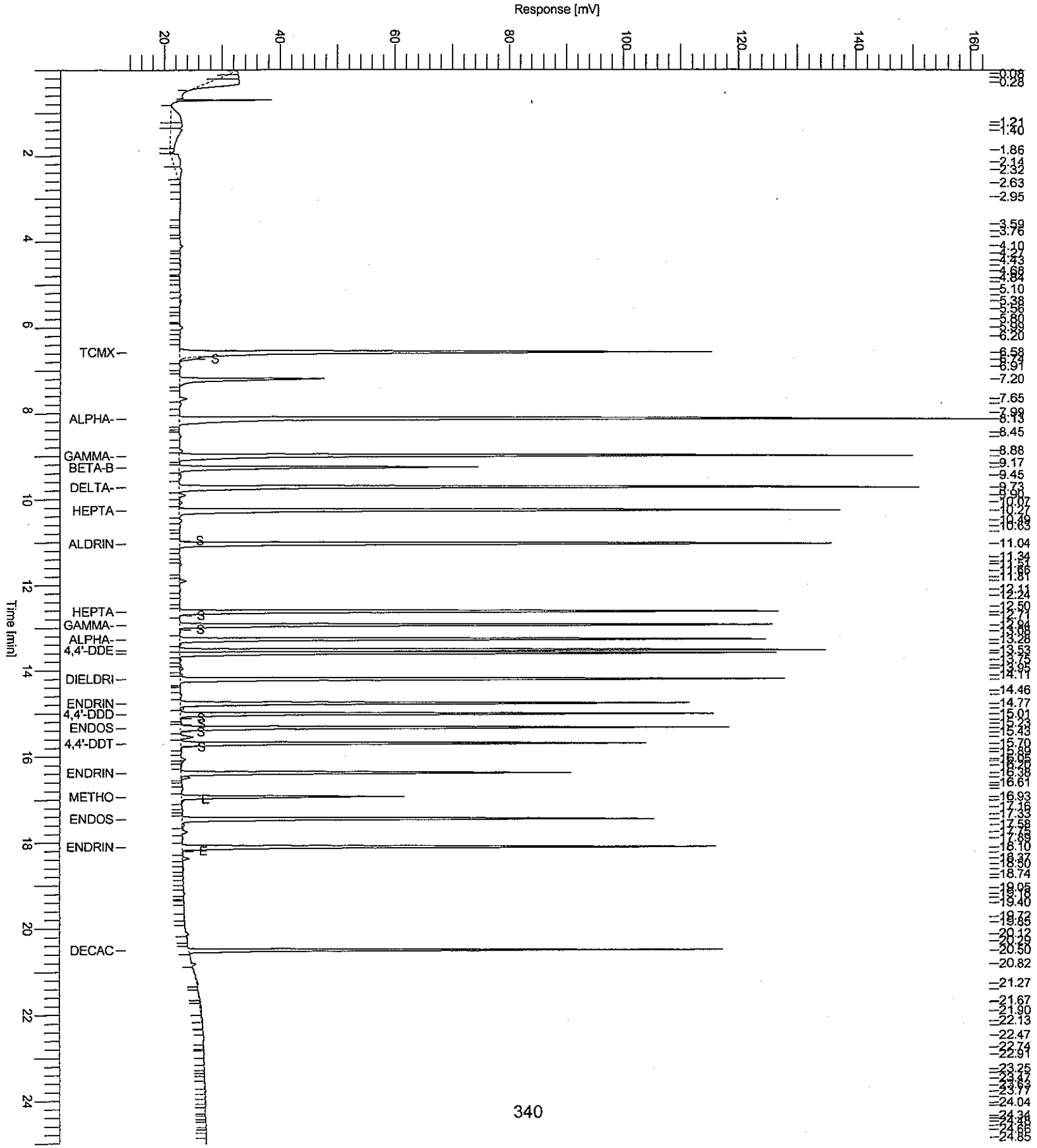
Report stored in ASCII file: G:\gc23\CHA\317a026p.TX0

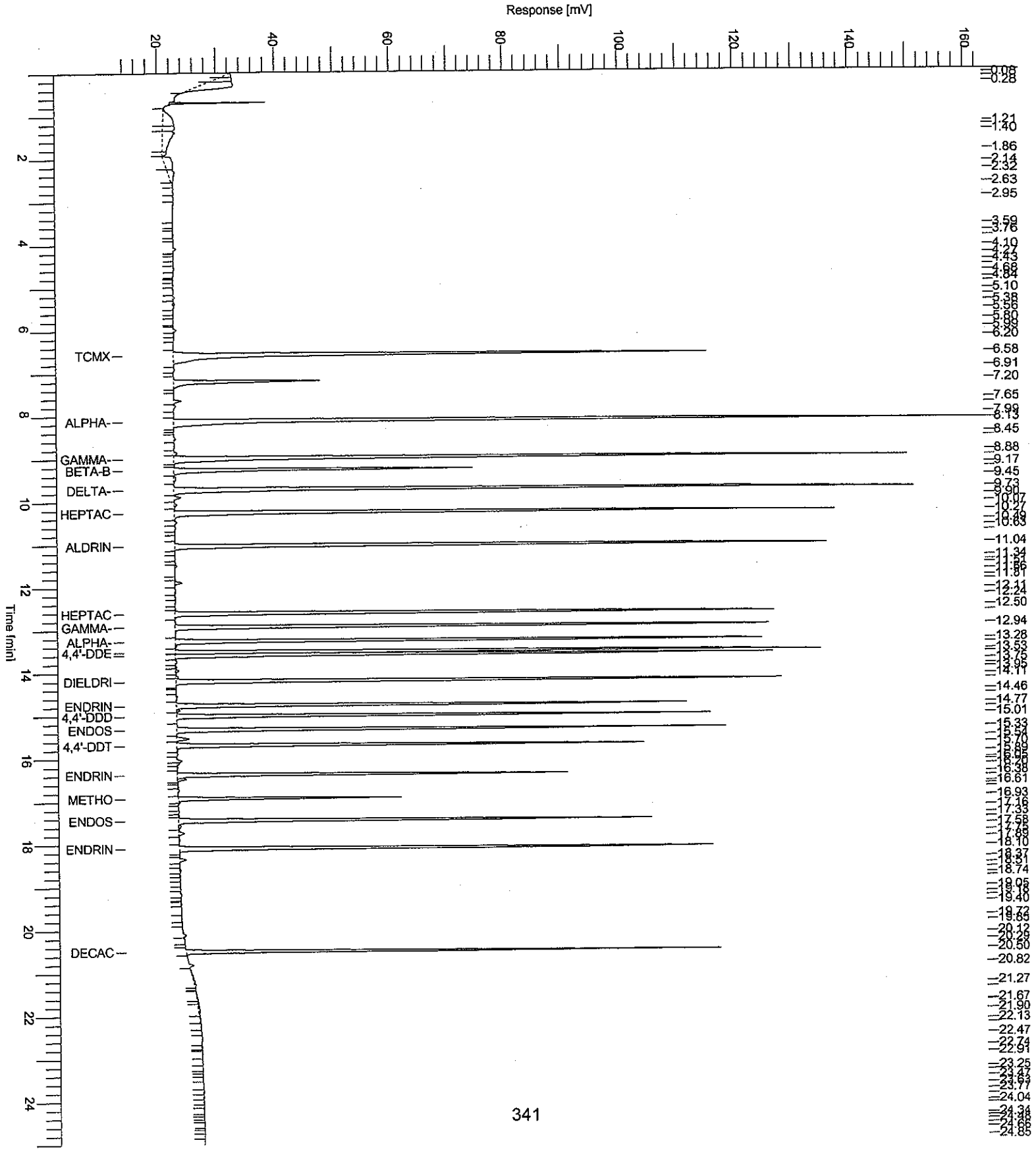
GC23 Rtx-CLPesticides

Sample Name : icv,04ws2099 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc23\CHa\317a026.raw
Date : 11/15/04 1:09:35 PM
Method : Time of Injection: 11/13/04 2:47:43 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 13.41 mV High Point : 163.30 mV
Plot Offset: 13.41 mV Plot Scale: 149.9 mV



GC23 Rtx-CLPesticides

ample Name : icv,04ws2099 Sample #: 25ug/L Page 1 of 1
ileName : G:\gc23\CHa\317a026.raw
ate : 11/15/04 12:38:45 PM
ethod : gc23ins Time of Injection: 11/13/04 2:47:43 AM
tart Time : 0.00 min Ehd Time : 25.00 min Low Point : 13.78 mV High Point : 163.30 mV
cale Factor: 1.0 Plot Offset: 13.78 mV Plot Scale: 149.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : icv,04ws2099
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 26

Date : 11/15/04 1:07:27 PM
Data Acquisition Time : 11/13/04 2:47:43 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b026p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.907	425094.71	28.8067	1.000	1	28.81
alpha-BHC	8.548	578480.39	24.2463	1.000	1	24.25
gamma-BHC	9.487	526983.27	24.3128	1.000	1	24.31
beta-BHC	9.719	210707.91	23.1090	1.000	1	23.11
delta-BHC	10.484	541974.00	25.1384	1.000	1	25.14
Heptachlor	10.623	398556.00	24.1629	1.000	1	24.16
Aldrin	11.438	496453.00	24.8479	1.000	1	24.85
Heptachlor epoxide	12.913	440734.57	23.6297	1.000	1	23.63
gamma-Chlordane	13.382	439758.10	23.7292	1.000	1	23.73
alpha-Chlordane	13.752	429308.51	24.0344	1.000	1	24.03
Endosulfan I	13.869	407648.87	24.3823	1.000	1	24.38
4,4'-DDE	14.236	433783.03	24.6512	1.000	1	24.65
Dieldrin	14.551	435317.96	24.5253	1.000	1	24.53
Endrin	15.295	347726.69	23.9729	1.000	1	23.97
4,4'-DDD	15.654	317277.60	22.8196	1.000	1	22.82
Endosulfan II	15.816	369181.50	24.4594	1.000	1	24.46
4,4'-DDT	16.417	322142.94	24.8598	1.000	1	24.86
Endrin aldehyde	16.655	256532.64	22.3689	1.000	1	22.37
Endosulfan sulfate	17.331	316155.92	24.2846	1.000	1	24.28
Methoxychlor	18.146	148742.36	28.6642	1.000	1	28.66
Endrin ketone	18.612	370806.55	22.5690	1.000	1	22.57
Decachlorobiphenyl	21.269	274194.68	26.3134	1.000	1	26.31
		8487561.21	539.8879			539.89

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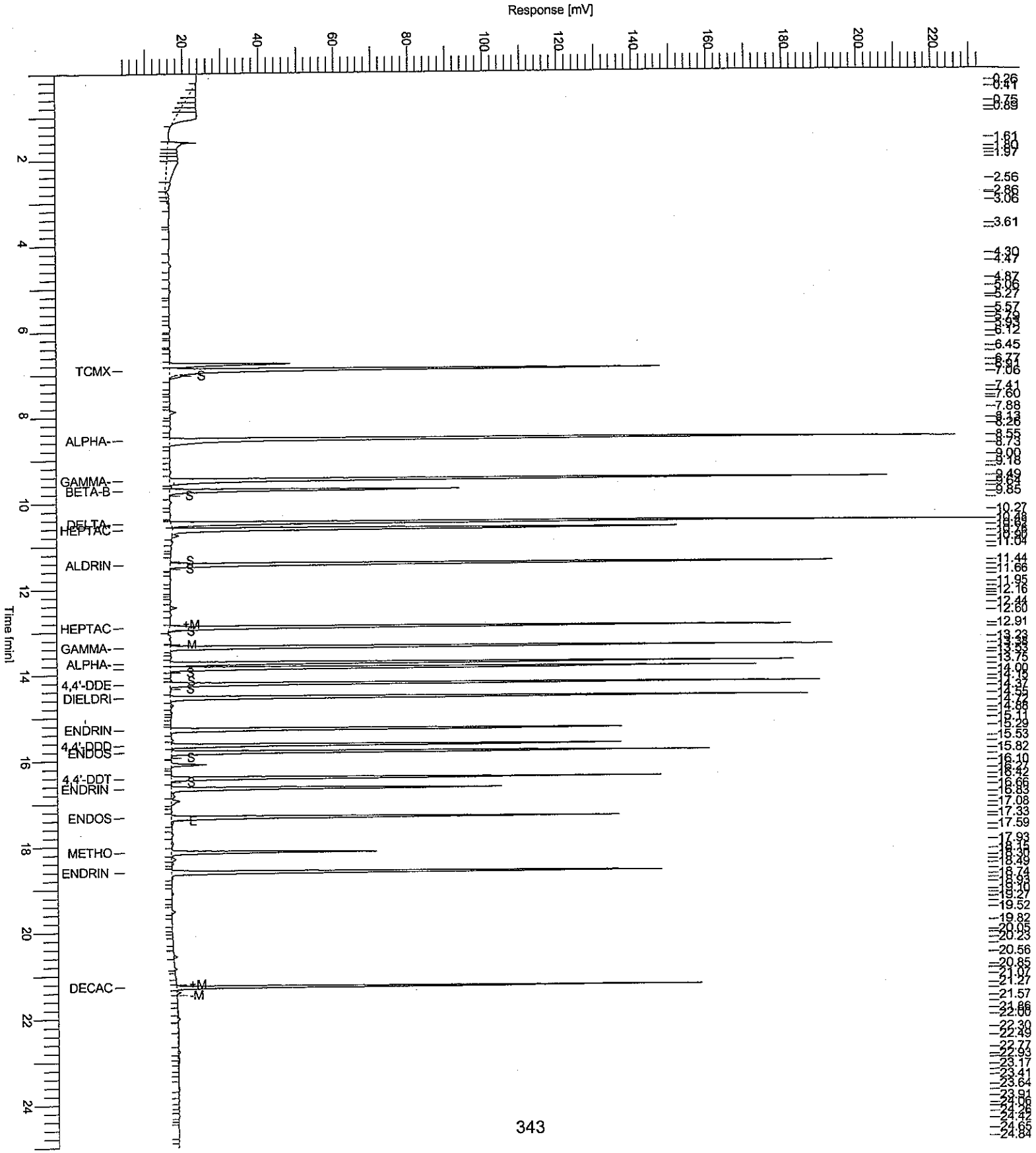
Report stored in ASCII file: G:\gc23\CHB\317b026p.TX0

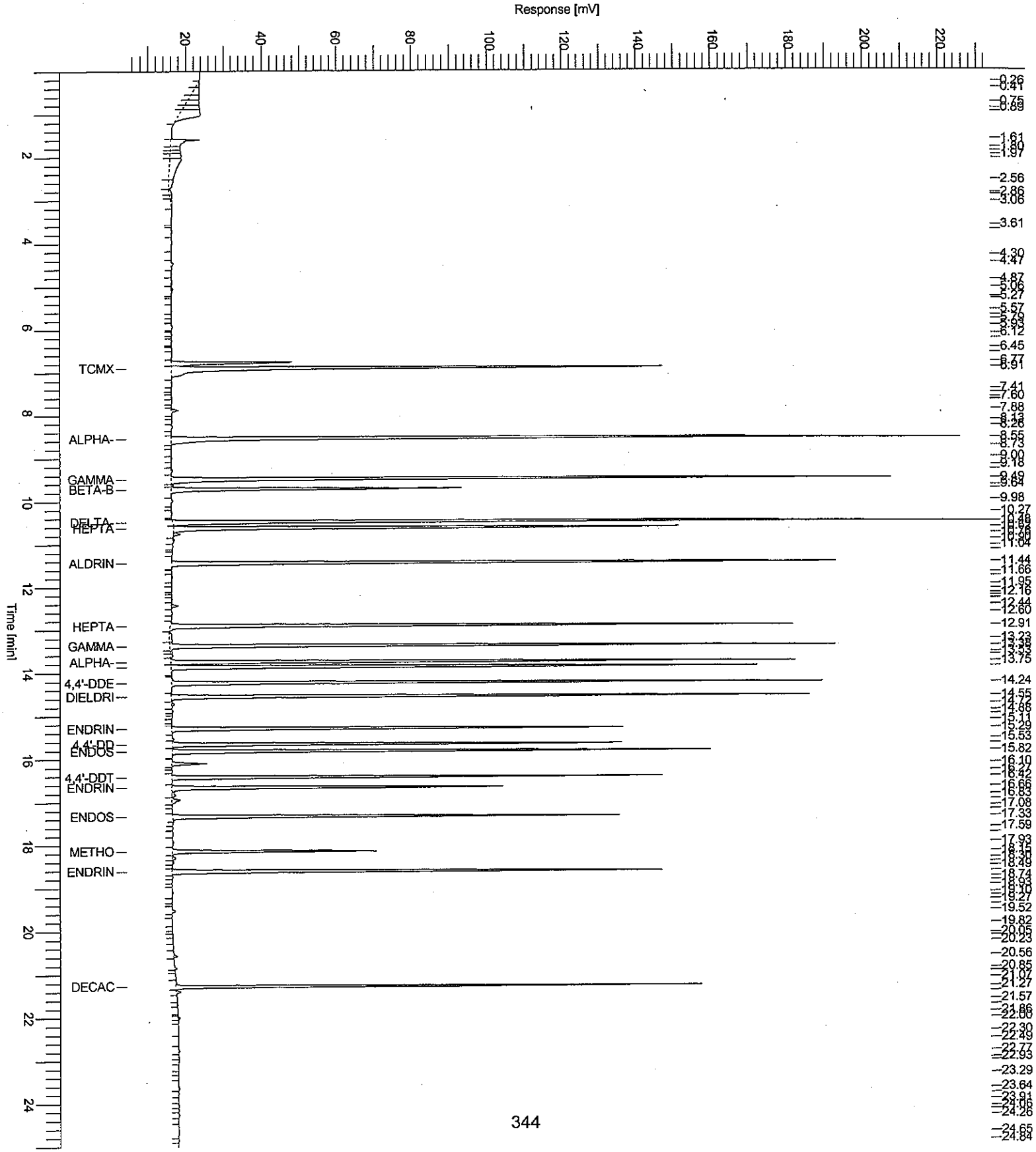
GC23 Rtx-CLPesticides2

Sample Name : icv,04ws2099 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc23\CHb\317b026.raw
Date : 11/15/04 1:07:34 PM
Method :
Time of Injection: 11/13/04 2:47:43 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 3.80 mV High Point : 233.94 mV
Plot Offset: 3.80 mV Plot Scale: 230.1 mV



GC23 Rtx-CLPesticides2

Sample Name : icv,04ws2099 Sample #: 25ug/L Page 1 of 1
FileName : G:\gc23\CHb\317b026
Date : 11/15/04 12:38:34 PM
Method : gc23ins Time of Injection: 11/13/04 2:47:43 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.38 mV High Point : 233.94 mV
Scale Factor: 1.0 Plot Offset: 4.38 mV Plot Scale: 229.6 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804457447016 Run Name: Injected: 12-NOV-2004 22:05
Filename: 317_016 Standard(s): 04WS1614

Analyte	Ch	Area
Endrin	A	505667.81
Endrin aldehyde	A	27226.03
Endrin ketone	A	11414.67

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	949816.79
4,4'-DDE	A	9244.34
4,4'-DDD	A	23770.54

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	858256.4
Endrin aldehyde	B	15000.82
Endrin ketone	B	10631

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1519179.28
4,4'-DDE	B	6560.35
4,4'-DDD	B	18991.13

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 11/15/04 1:01:10 PM
Data Acquisition Time : 11/12/04 10:05:23 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\317a016p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.579	0.00	0.0000	1.000	1	0.00
alpha-BHC	8.124	183003.95	10.6102	1.000	1	10.61
gamma-BHC	8.989	161889.50	10.4258	1.000	1	10.43
beta-BHC	9.263	75488.99	11.6749	1.000	1	11.67
delta-BHC	9.720	15060.36	0.9615	1.000	1	0.96
Heptachlor	10.257	4938.91	0.3614	1.000	1	0.36
Aldrin	11.033	6907.25	0.4856	1.000	1	0.49
Heptachlor epoxide	12.621	11072.52	0.8464	1.000	1	0.85
gamma-Chlordane	12.938	7509.14	0.5687	1.000	1	0.57
alpha-Chlordane	13.271	7067.94	0.5513	1.000	1	0.55
4,4'-DDE	13.523	9244.34	0.7149	1.000	1	0.71
Endosulfan I	13.595	5412.40	0.4646	1.000	1	0.46
Dieldrin	14.202	5047.35	0.3871	1.000	1	0.39
Endrin	14.765	505667.81	46.8059	1.000	1	46.81
4,4'-DDD	15.007	23770.54	2.2631	1.000	1	2.26
Endosulfan II	15.318	20998.38	1.8720	1.000	1	1.87
4,4'-DDT	15.688	949816.79	99.8867	1.000	1	99.89
Endrin aldehyde	16.378	27226.03	3.0960	1.000	1	3.10
Methoxychlor	16.930	969773.36	243.8207	1.000	1	243.82
Endosulfan sulfate	17.446	8889.85	0.9049	1.000	1	0.90
Endrin ketone	18.113	11414.67	0.9843	1.000	1	0.98
Decachlorobiphenyl	20.466	15308.54	1.9467	1.000	1	1.95
		3025508.63	439.6328			439.63

GP
11/15/04

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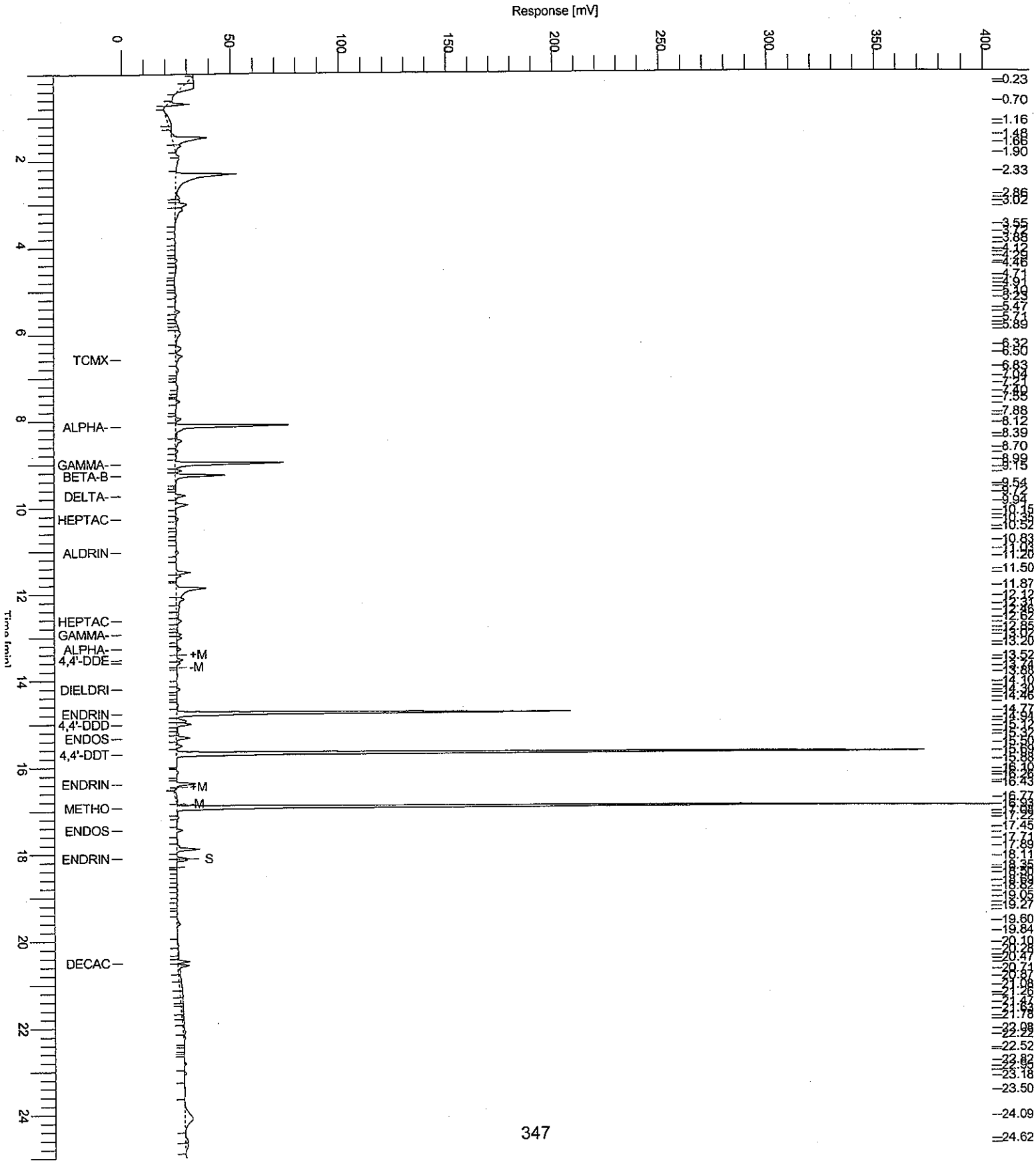
Report stored in ASCII file: G:\gc23\CHA\317a016p.TX0

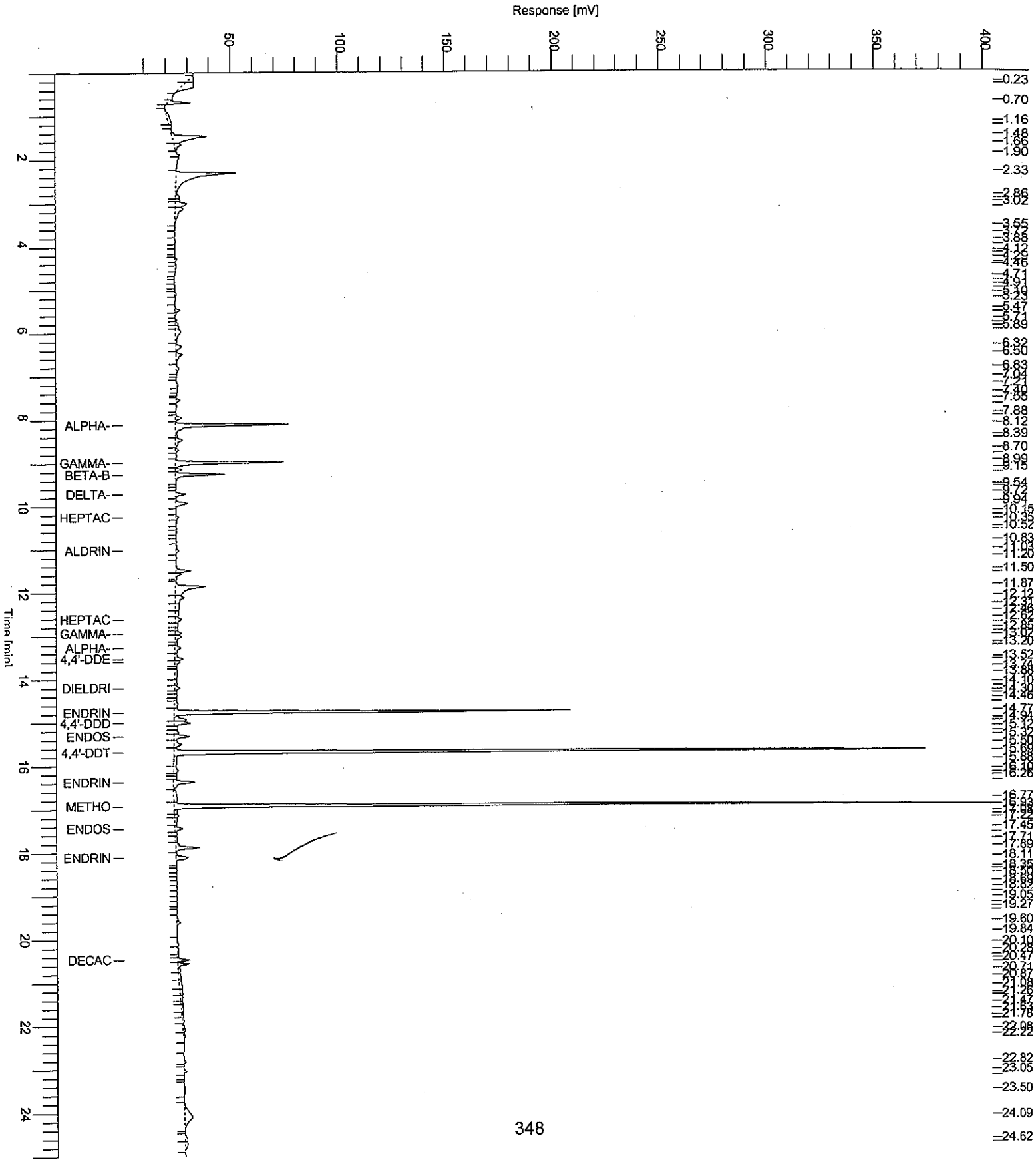
GC23 Rtx-CLPesticides

Sample Name : pem,04ws1614 Sample #: Page 1 of 1
FileName : G:\gc23\CHa\317a016.raw
Date : 11/15/04 1:01:15 PM
Method :
Time of Injection: 11/12/04 10:05:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.78 mV High Point : 404.69 mV
Plot Offset: -0.78 mV Plot Scale: 405.5 mV



GC23 Rtx-CLPesticides

Sample Name : pem,04ws1614 Sample #:
FileName : G:\gc23\CHa\317a016.raw
Date : 11/15/04 12:40:04 PM
Method : gc23ins Time of Injection: 11/12/04 10:05:23 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 0.24 mV High Point : 404.69 mV
Scale Factor: 1.0 Plot Offset: 0.24 mV Plot Scale: 404.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws1614
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 16

Date : 11/15/04 12:59:24 PM
Data Acquisition Time : 11/12/04 10:05:23 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\317b016p.rst
Sequence File : G:\gc23\Files\317.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.916	519.02	0.0352	1.000	1	0.04
alpha-BHC	8.537	235542.50	9.8725	1.000	1	9.87
gamma-BHC	9.483	220418.15	10.1692	1.000	1	10.17
beta-BHC	9.715	96114.00	10.5411	1.000	1	10.54
delta-BHC	10.481	5672.70	0.2631	1.000	1	0.26
Heptachlor	10.621	1131.08	0.0686	1.000	1	0.07
Aldrin	11.437	622.00	0.0311	1.000	1	0.03
Heptachlor epoxide	12.906	1634.00	0.0876	1.000	1	0.09
gamma-Chlordane	13.376	1503.94	0.0812	1.000	1	0.08
alpha-Chlordane	13.750	1382.15	0.0774	1.000	1	0.08
Endosulfan I	13.879	2448.85	0.1465	1.000	1	0.15
4,4'-DDE	14.233	6560.35	0.3728	1.000	1	0.37
Dieldrin	14.549	3144.67	0.1772	1.000	1	0.18
Endrin	15.286	858256.40	59.1698	1.000	1	59.17
4,4'-DDD	15.652	18991.13	1.3659	1.000	1	1.37
Endosulfan II	15.814	3933.75	0.2606	1.000	1	0.26
4,4'-DDT	16.414	1519179.28	117.2352	1.000	1	117.24
Endrin aldehyde	16.651	15000.82	1.3080	1.000	1	1.31
Endosulfan sulfate	17.328	3831.89	0.2943	1.000	1	0.29
Methoxychlor	18.137	1531488.31	295.1340	1.000	1	295.13
Endrin ketone	18.603	10631.00	0.6471	1.000	1	0.65
Decachlorobiphenyl	21.268	0.00	0.0000	1.000	1	0.00
		4538005.99	507.3383			507.34

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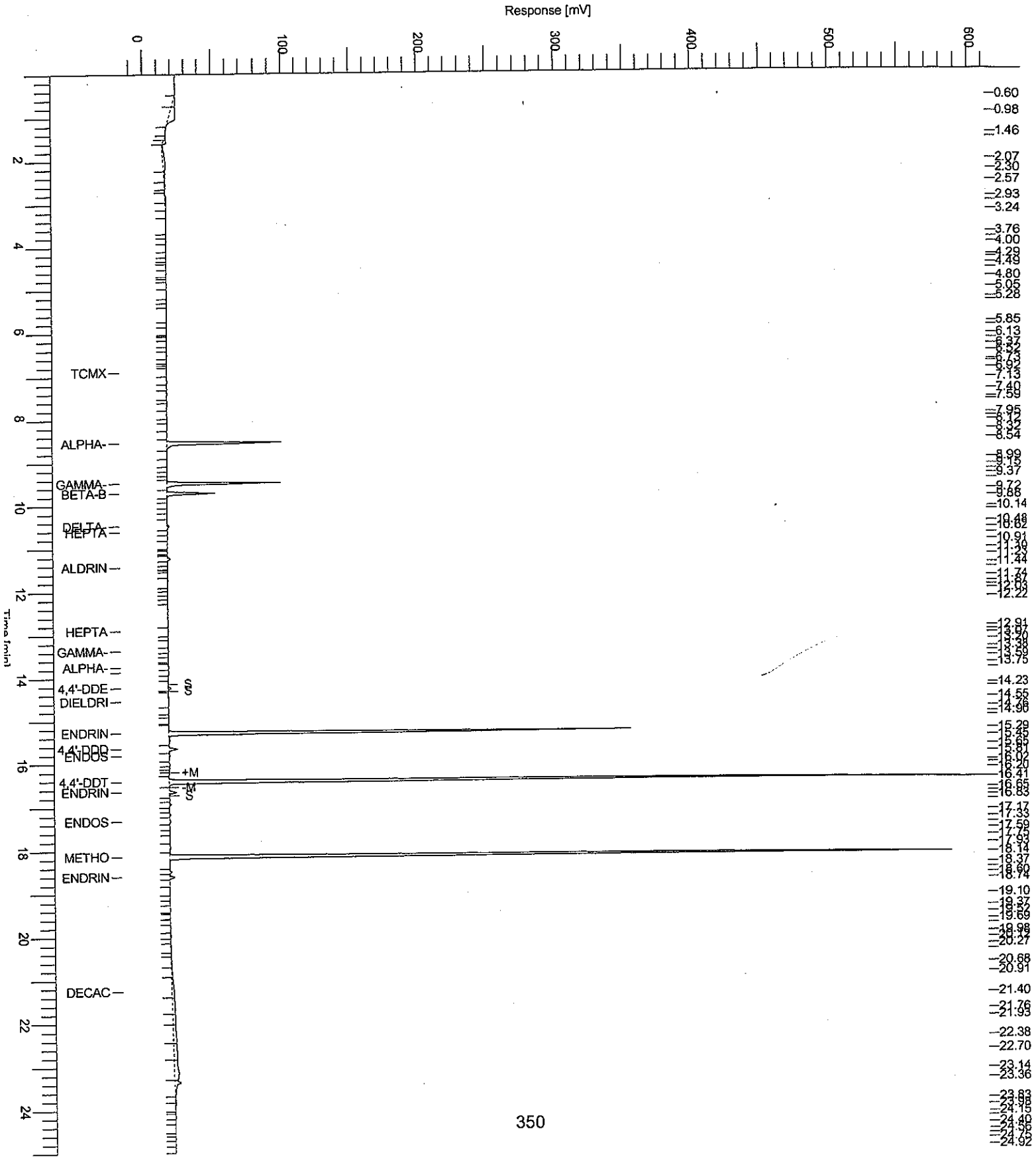
Report stored in ASCII file: G:\gc23\CHB\317b016p.TX0

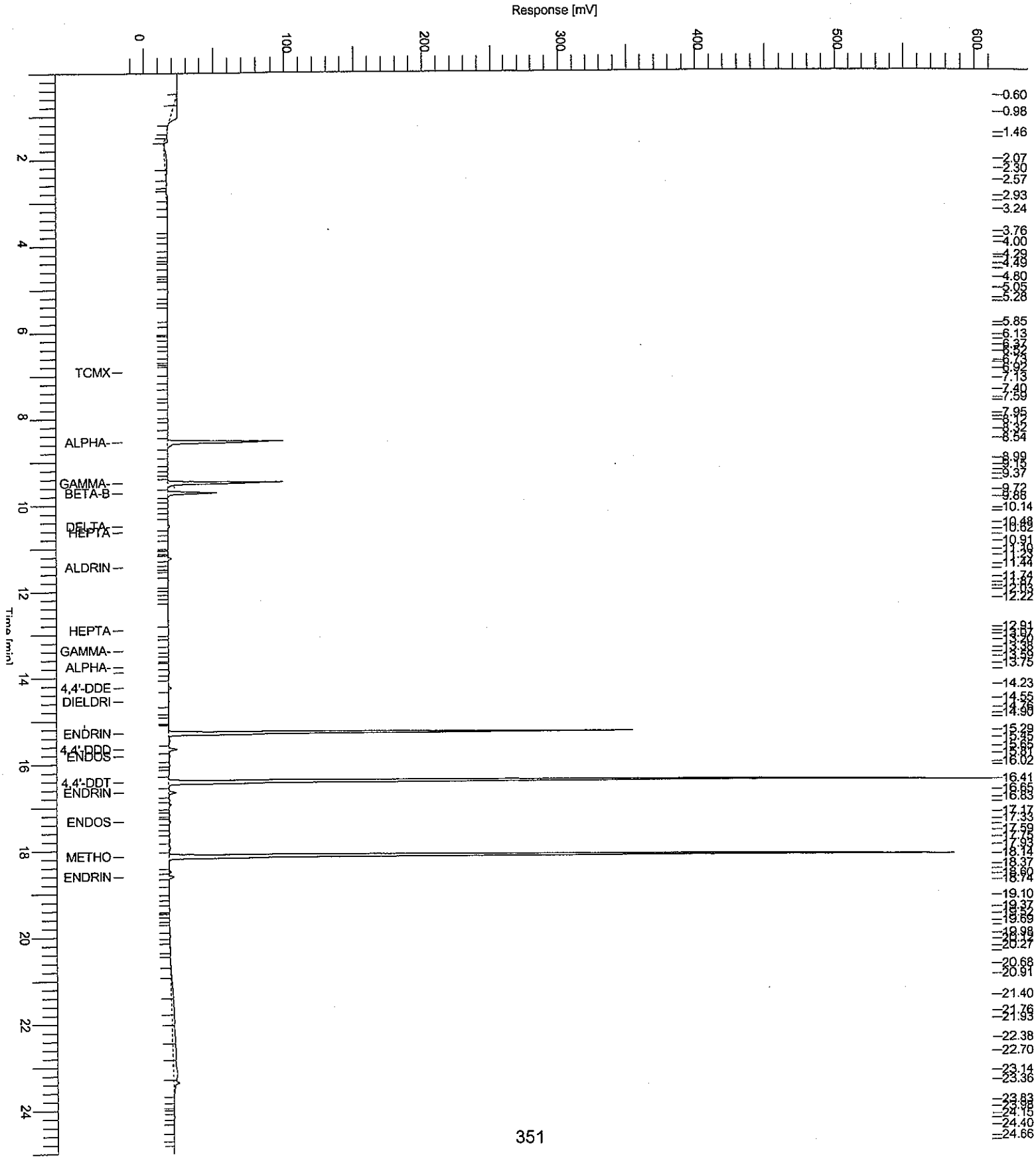
GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\317b016.raw
ate : 11/15/04 12:59:30 PM
lethod :
Time of Injection: 11/12/04 10:05:23 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -17.75 mV High Point : 612.93 mV
lot Offset: -17.75 mV Plot Scale: 630.7 mV



GC23 Rtx-CLPesticides2

ample Name : pem,04ws1614 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\317b016
ate : 11/15/04 12:40:09 PM
ethod : gc23ins Time of Injection: 11/12/04 10:05:23 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -16.17 mV High Point : 612.93 mV
cale Factor: 1.0 Plot Offset: -16.17 mV Plot Scale: 629.1 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804481659007 Run Name: Injected: 29-NOV-2004 13:47
Filename: 334_007 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	499626.2
Endrin aldehyde	A	18336.49
Endrin ketone	A	16991.26

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	1091813.08
4,4'-DDE	A	6676.28
4,4'-DDD	A	18712.87

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	773998.38
Endrin aldehyde	B	50369.06
Endrin ketone	B	31997

Endrin Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1786479.03
4,4'-DDE	B	8707.97
4,4'-DDD	B	46910.82

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : x,pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 11/29/04 2:59:15 PM
Data Acquisition Time : 11/29/04 1:47:05 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a007p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.518	686.00	0.0639	1.000	1	0.064
alpha-BHC	8.065	165427.53	9.5911	1.000	1	9.591
gamma-BHC	8.931	153045.00	9.8562	1.000	1	9.856
beta-BHC	9.200	67521.37	10.4426	1.000	1	10.443
delta-BHC	9.664	11037.98	0.7047	1.000	1	0.705
Heptachlor	10.203	2528.00	0.1850	1.000	1	0.185
Aldrin	10.978	2669.72	0.1877	1.000	1	0.188
Heptachlor epoxide	12.563	3020.00	0.2309	1.000	1	0.231
gamma-Chlordane	12.873	2350.19	0.1780	1.000	1	0.178
alpha-Chlordane	13.212	2133.00	0.1664	1.000	1	0.166
4,4'-DDE	13.465	6676.28	0.5163	1.000	1	0.516
Endosulfan I	13.530	2115.72	0.1816	1.000	1	0.182
Dieldrin	14.138	3952.05	0.3031	1.000	1	0.303
Endrin	14.701	499626.20	46.2466	1.000	1	46.247
4,4'-DDD	14.951	18712.87	1.7816	1.000	1	1.782
Endosulfan II	15.262	6136.35	0.5471	1.000	1	0.547
4,4'-DDT	15.632	1091813.08	114.8197	1.000	1	114.820
Endrin aldehyde	16.315	18336.49	2.0851	1.000	1	2.085
Methoxychlor	16.869	1131403.47	284.4578	1.000	1	284.458
Endosulfan sulfate	17.382	8573.86	0.8727	1.000	1	0.873
Endrin ketone	18.034	16991.26	1.4652	1.000	1	1.465
Decachlorobiphenyl	20.453	2095.73	0.2665	1.000	1	0.267
		3216852.16	485.1499			485.150

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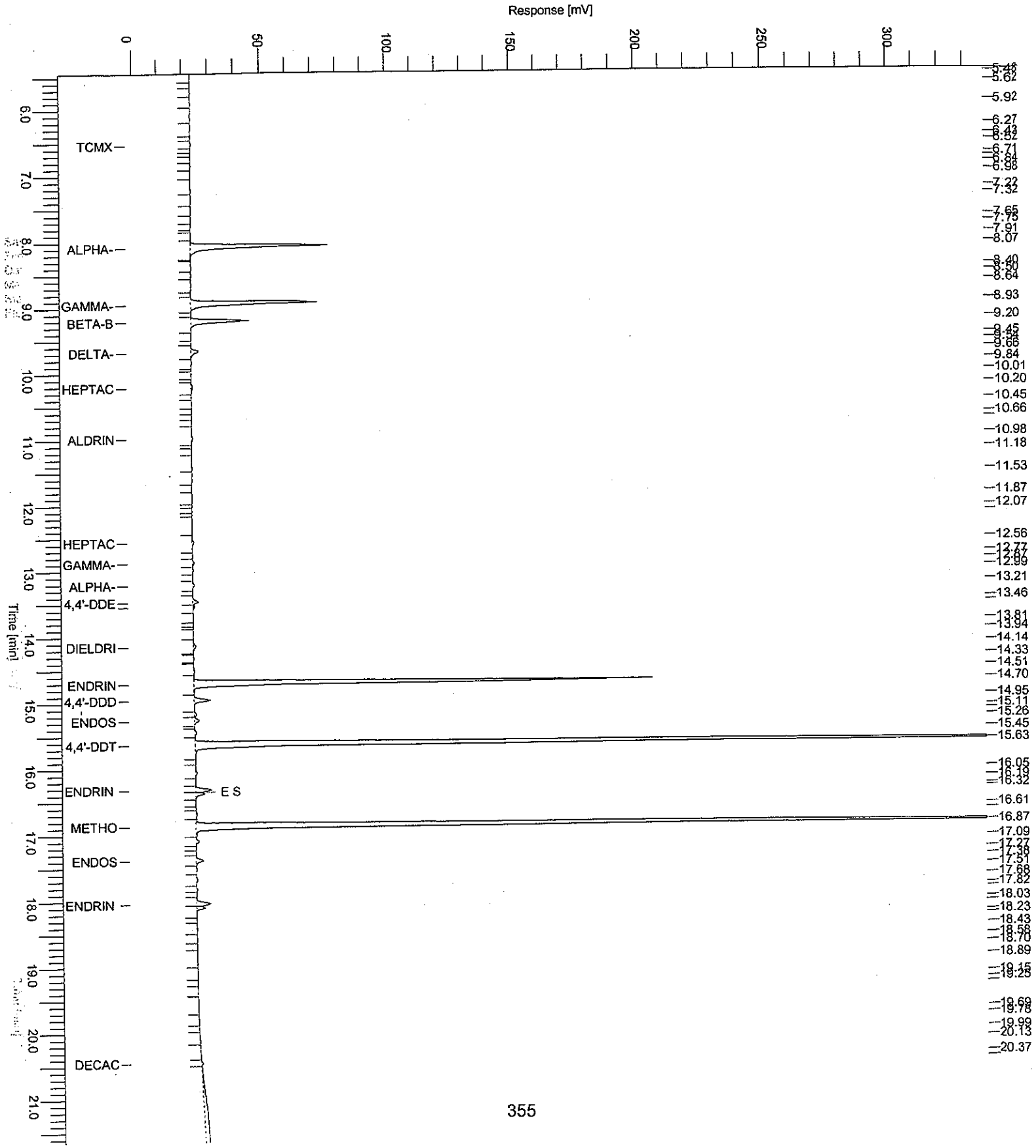
Report stored in ASCII file: G:\gc23\CHA\334a007p.TX0

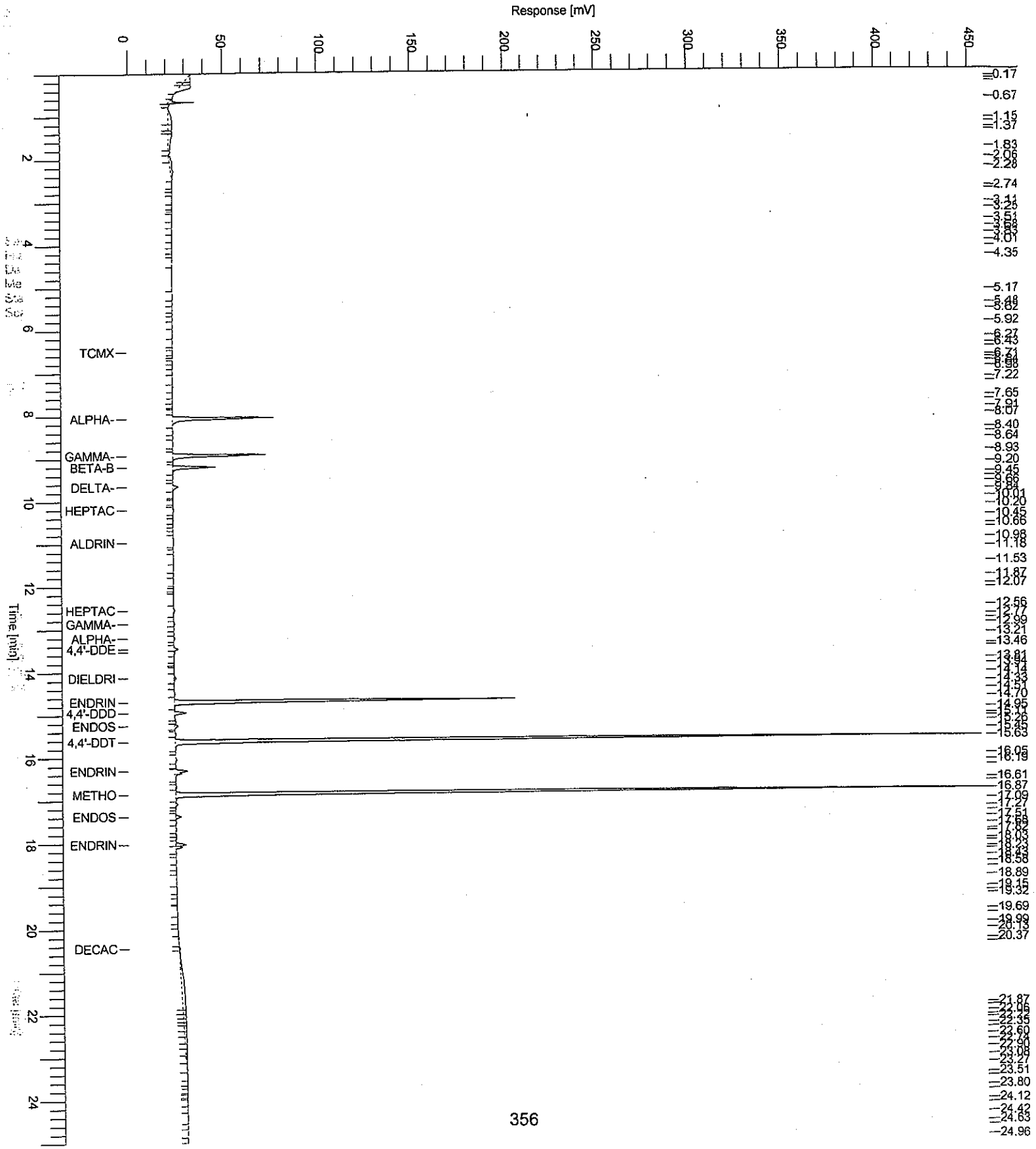
GC23 Rtx-CLPesticides

Sample Name : x,pem,04ws2193 Sample #: Page 1 of 1
FileName : G:\gc23\CHa\334a007.raw
Date : 11/29/04 2:59:21 PM
Method :
Time of Injection: 11/29/04 1:47:05 PM
Start Time : 5.45 min End Time : 21.65 min Low Point : -2.59 mV High Point : 338.28 mV
Plot Offset: -2.59 mV Plot Scale: 340.9 mV



GC23 Rtx-CLPesticides

Sample Name : x,pem,04ws2193 Sample #: Page 1 of 1
FileName : G:\gc23\CHa\334a007.raw
Date : 11/29/04 2:57:21 PM
Method : gc23ins Time of Injection: 11/29/04 1:47:05 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.43 mV High Point : 459.05 mV
Scale Factor: 1.0 Plot Offset: -1.43 mV Plot Scale: 460.5 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 7

Date : 11/29/04 2:57:32 PM
Data Acquisition Time : 11/29/04 1:47:05 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b007.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.852	888.00	0.0602	1.000	1	0.060
alpha-BHC	8.497	255518.24	10.7097	1.000	1	10.710
gamma-BHC	9.437	237226.83	10.9447	1.000	1	10.945
beta-BHC	9.670	105259.00	11.5441	1.000	1	11.544
delta-BHC	10.435	10849.95	0.5033	1.000	1	0.503
Heptachlor	10.578	1721.00	0.1043	1.000	1	0.104
Aldrin	11.391	1336.00	0.0669	1.000	1	0.067
Heptachlor epoxide	12.865	2178.05	0.1168	1.000	1	0.117
gamma-Chlordane	13.332	2083.93	0.1124	1.000	1	0.112
alpha-Chlordane	13.704	2642.19	0.1479	1.000	1	0.148
Endosulfan I	13.833	3455.69	0.2067	1.000	1	0.207
4,4'-DDE	14.188	8707.97	0.4949	1.000	1	0.495
Dieldrin	14.502	2222.15	0.1252	1.000	1	0.125
Endrin	15.246	773998.38	53.3609	1.000	1	53.361
4,4'-DDD	15.614	46910.82	3.3740	1.000	1	3.374
Endosulfan II	15.768	12232.40	0.8104	1.000	1	0.810
4,4'-DDT	16.369	1786479.03	137.8627	1.000	1	137.863
Endrin aldehyde	16.611	50369.06	4.3920	1.000	1	4.392
Endosulfan sulfate	17.284	9568.24	0.7350	1.000	1	0.735
Methoxychlor	18.099	1494405.96	287.9879	1.000	1	287.988
Endrin ketone	18.563	31997.00	1.9475	1.000	1	1.947
Decachlorobiphenyl	21.249	1530.33	0.1469	1.000	1	0.147
		4841580.23	525.7542			525.754

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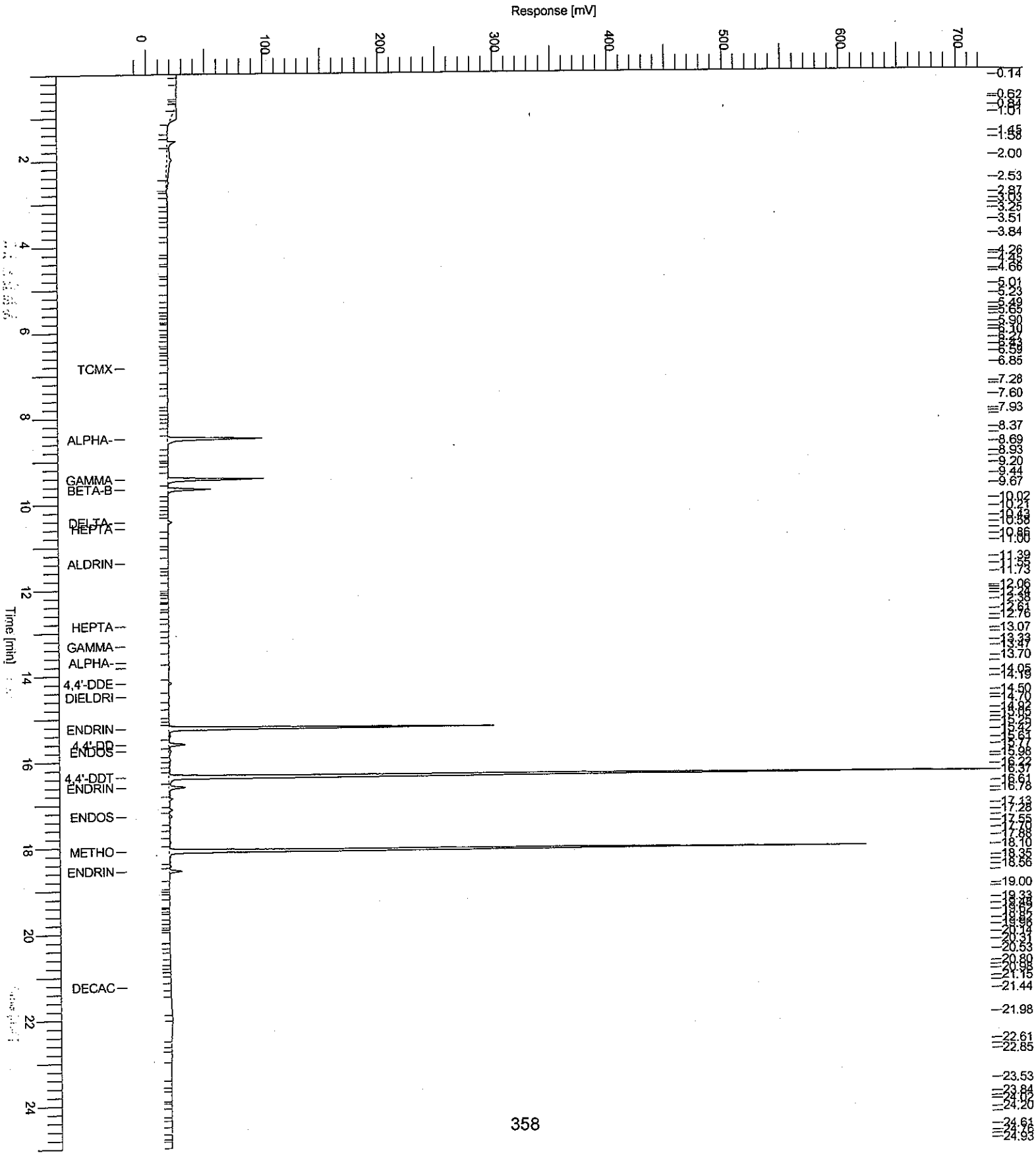
Report stored in ASCII file: G:\gc23\CHB\334b007.TX0

GC23 Rtx-CLPesticides2

Sample Name : x,pem,04ws2193 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\334b007
Date : 11/29/04 2:57:36 PM
Method : gc23ins Time of Injection: 11/29/04 1:47:05 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -18.50 mV High Point : 728.16 mV
Scale Factor: 1.0 Plot Offset: -18.50 mV Plot Scale: 746.7 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804481659022 Run Name: Injected: 29-NOV-2004 23:02
Filename: 334_022 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	711676.82
Endrin aldehyde	A	12699.27
Endrin ketone	A	25383

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	1233780.98
4,4'-DDE	A	4208
4,4'-DDD	A	147246.09

4,4'-DDT Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	822915.12
Endrin aldehyde	B	14024.27
Endrin ketone	B	43344.79

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1348277.4
4,4'-DDE	B	8852.35
4,4'-DDD	B	168381.71

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 11/30/04 7:54:32 AM
Data Acquisition Time : 11/29/04 11:02:35 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a022.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.538	0.00	0.0000	1.000	1	0.000
alpha-BHC	8.056	205309.15	11.9034	1.000	1	11.903
gamma-BHC	8.920	187505.75	12.0755	1.000	1	12.076
beta-BHC	9.195	82637.12	12.7804	1.000	1	12.780
delta-BHC	9.652	2966.31	0.1894	1.000	1	0.189
Heptachlor	10.193	1738.54	0.1272	1.000	1	0.127
Aldrin	10.940	2720.54	0.1912	1.000	1	0.191
Heptachlor epoxide	12.559	2657.55	0.2032	1.000	1	0.203
gamma-Chlordane	12.872	1382.56	0.1047	1.000	1	0.105
alpha-Chlordane	13.204	2986.93	0.2330	1.000	1	0.233
4,4'-DDE	13.454	4208.00	0.3254	1.000	1	0.325
Endosulfan I	13.546	0.00	0.0000	1.000	1	0.000
Dieldrin	14.132	1857.24	0.1424	1.000	1	0.142
Endrin	14.689	711676.82	65.8746	1.000	1	65.875
4,4'-DDD	14.938	147246.09	14.0189	1.000	1	14.019
Endosulfan II	15.241	9008.11	0.8031	1.000	1	0.803
4,4'-DDT	15.619	1233780.98	129.7496	1.000	1	129.750
Endrin aldehyde	16.303	12699.27	1.4441	1.000	1	1.444
Methoxychlor	16.862	1380749.87	347.1486	1.000	1	347.149
Endosulfan sulfate	17.369	1306.00	0.1329	1.000	1	0.133
Endrin ketone	18.030	25383.00	2.1889	1.000	1	2.189
Decachlorobiphenyl	20.406	13538.33	1.7216	1.000	1	1.722
		4031358.15	601.3581			601.358

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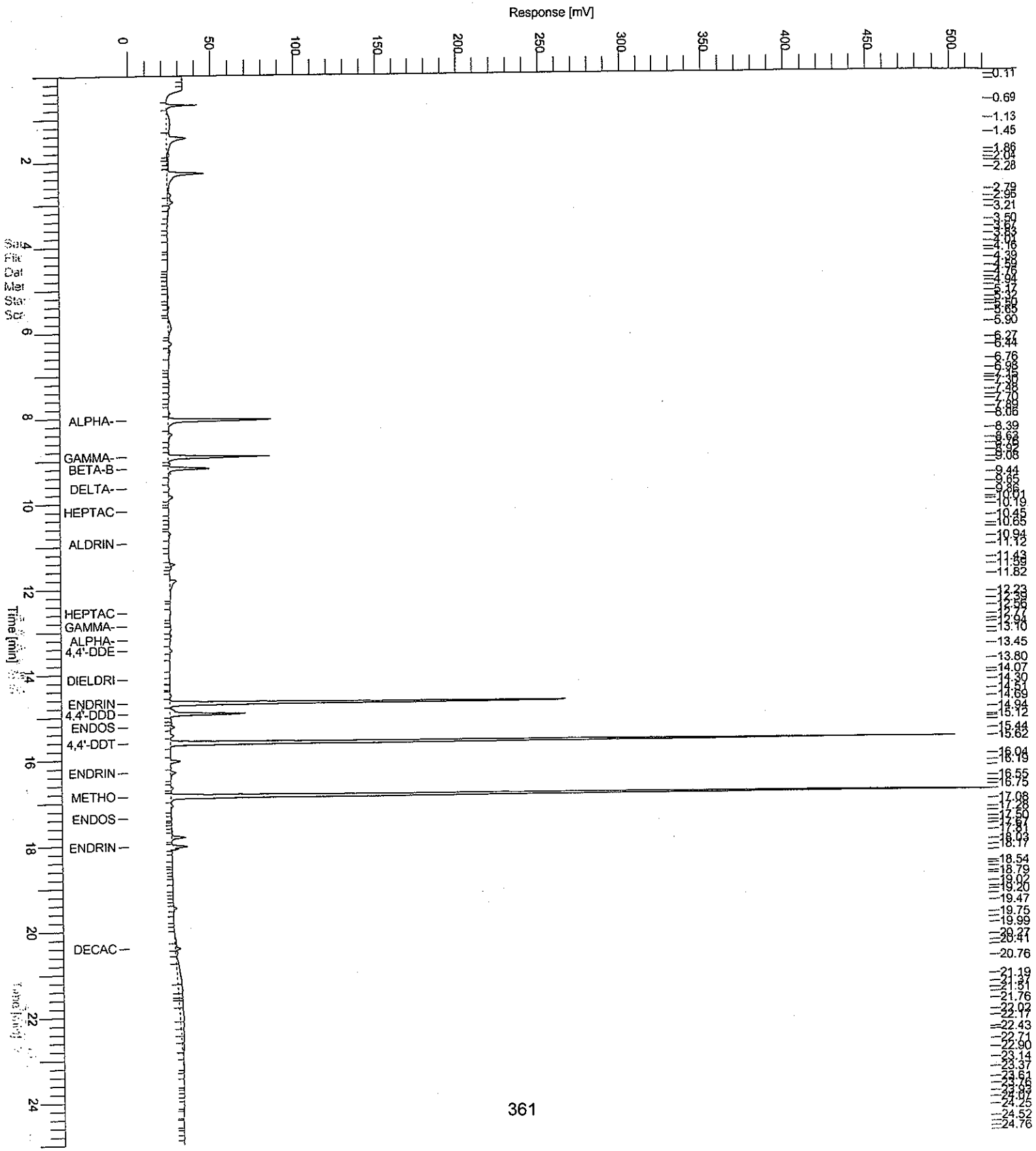
Report stored in ASCII file: G:\gc23\CHA\334a022.TX0

GC23 Rtx-CLPesticides

Sample Name : pem,04ws2193 Sample #: Page 1 of 1
FileName : G:\gc23\CHa\334a022.raw
Date : 11/30/04 7:54:36 AM
Method : gc23ins Time of Injection: 11/29/04 11:02:35 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.56 mV High Point : 520.54 mV
Scale Factor: 1.0 Plot Offset: -1.56 mV Plot Scale: 522.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 22

Date : 11/30/04 7:55:07 AM
Data Acquisition Time : 11/29/04 11:02:35 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b022.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.867	8728.81	0.5915	1.000	1	0.592
alpha-BHC	8.488	233284.25	9.7778	1.000	1	9.778
gamma-BHC	9.433	216583.00	9.9922	1.000	1	9.992
beta-BHC	9.665	96386.00	10.5709	1.000	1	10.571
delta-BHC	10.436	4754.49	0.2205	1.000	1	0.221
Heptachlor	10.614	11373.66	0.6895	1.000	1	0.690
Aldrin	11.387	2552.27	0.1277	1.000	1	0.128
Heptachlor epoxide	12.853	3607.85	0.1934	1.000	1	0.193
gamma-Chlordane	13.319	5554.67	0.2997	1.000	1	0.300
alpha-Chlordane	13.699	3780.88	0.2117	1.000	1	0.212
Endosulfan I	13.820	6044.08	0.3615	1.000	1	0.362
4,4'-DDE	14.182	8852.35	0.5031	1.000	1	0.503
Dieldrin	14.496	3110.13	0.1752	1.000	1	0.175
Endrin	15.233	822915.12	56.7333	1.000	1	56.733
4,4'-DDD	15.600	168381.71	12.1105	1.000	1	12.111
Endosulfan II	15.756	7166.06	0.4748	1.000	1	0.475
4,4'-DDT	16.363	1348277.40	104.0466	1.000	1	104.047
Endrin aldehyde	16.599	14024.27	1.2229	1.000	1	1.223
Endosulfan sulfate	17.272	3532.00	0.2713	1.000	1	0.271
Methoxychlor	18.086	1412384.08	272.1814	1.000	1	272.181
Endrin ketone	18.548	43344.79	2.6382	1.000	1	2.638
Decachlorobiphenyl	21.238	25158.34	2.4144	1.000	1	2.414
		4449796.20	485.8083			485.808

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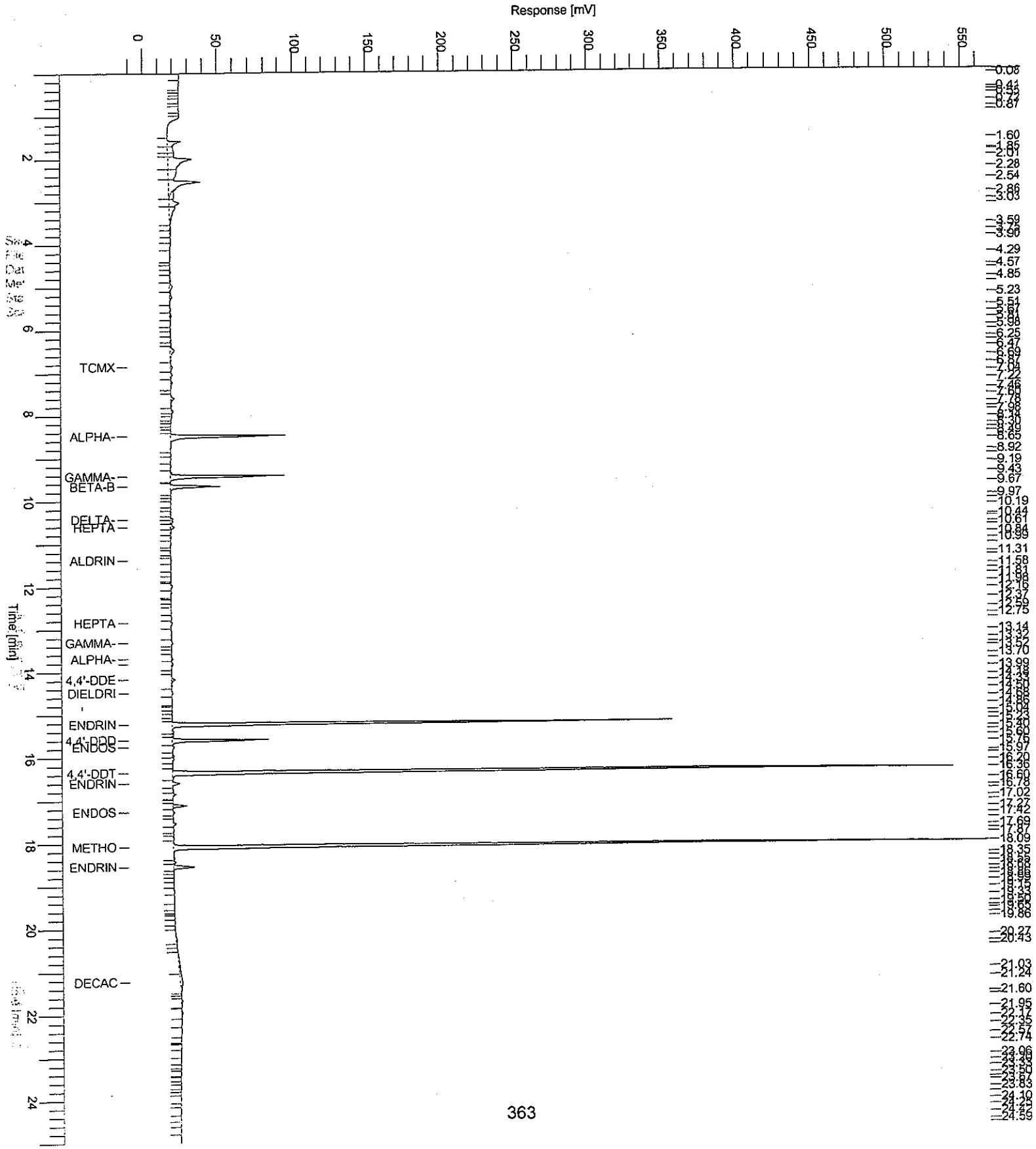
Report stored in ASCII file: G:\gc23\CHB\334b022.TX0

GC23 Rtx-CLPesticides2

Sample Name : pem,04ws2193 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\334b022
Date : 11/30/04 7:55:11 AM
Method : gc23ins Time of Injection: 11/29/04 11:02:35 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -10.50 mV High Point : 567.80 mV
Scale Factor: 1.0 Plot Offset: -10.50 mV Plot Scale: 578.3 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244485881004 Run Name: Injected: 02-DEC-2004 10:43
Filename: 337_004 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	385783.93
Endrin aldehyde	A	6546.2
Endrin ketone	A	24497

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	646710.67
4,4'-DDE	A	2895
4,4'-DDD	A	57657.9

4,4'-DDT Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	286098
Endrin aldehyde	B	5931.69
Endrin ketone	B	24073.72

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	529394.56
4,4'-DDE	B	2781.74
4,4'-DDD	B	46529.3

4,4'-DDT Breakdown %: 9
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 4

Date : 12/2/04 11:12:11 AM
Data Acquisition Time : 12/2/04 10:43:07 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\337a004.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.519	0.00	0.0000	1.000	1	0.00
alpha-BHC	10.206	118385.26	9.5045	1.000	1	9.50
gamma-BHC	11.116	110147.00	9.7807	1.000	1	9.78
beta-BHC	11.369	47983.50	9.7532	1.000	1	9.75
delta-BHC	11.870	506.45	0.0428	1.000	1	0.04
Heptachlor	12.416	169.00	0.0165	1.000	1	0.02
Aldrin	13.223	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.849	1130.00	0.1146	1.000	1	0.11
gamma-Chlordane	15.146	744.35	0.0748	1.000	1	0.07
alpha-Chlordane	15.500	0.00	0.0000	1.000	1	0.00
4,4'-DDE	15.714	2895.00	0.2963	1.000	1	0.30
Endosulfan I	15.860	0.00	0.0000	1.000	1	0.00
Dieldrin	16.469	0.00	0.0000	1.000	1	0.00
Endrin	17.083	385783.93	49.7612	1.000	1	49.76
4,4'-DDD	17.231	57657.90	7.1244	1.000	1	7.12
Endosulfan II	17.631	0.00	0.0000	1.000	1	0.00
4,4'-DDT	17.922	646710.67	94.8580	1.000	1	94.86
Endrin aldehyde	18.720	6546.20	0.9715	1.000	1	0.97
Methoxychlor	19.115	708890.76	238.5118	1.000	1	238.51
Endosulfan sulfate	19.782	0.00	0.0000	1.000	1	0.00
Endrin ketone	20.446	24497.00	3.0583	1.000	1	3.06
Decachlorobiphenyl	22.099	0.00	0.0000	1.000	1	0.00
		2112047.01	423.8687			423.87

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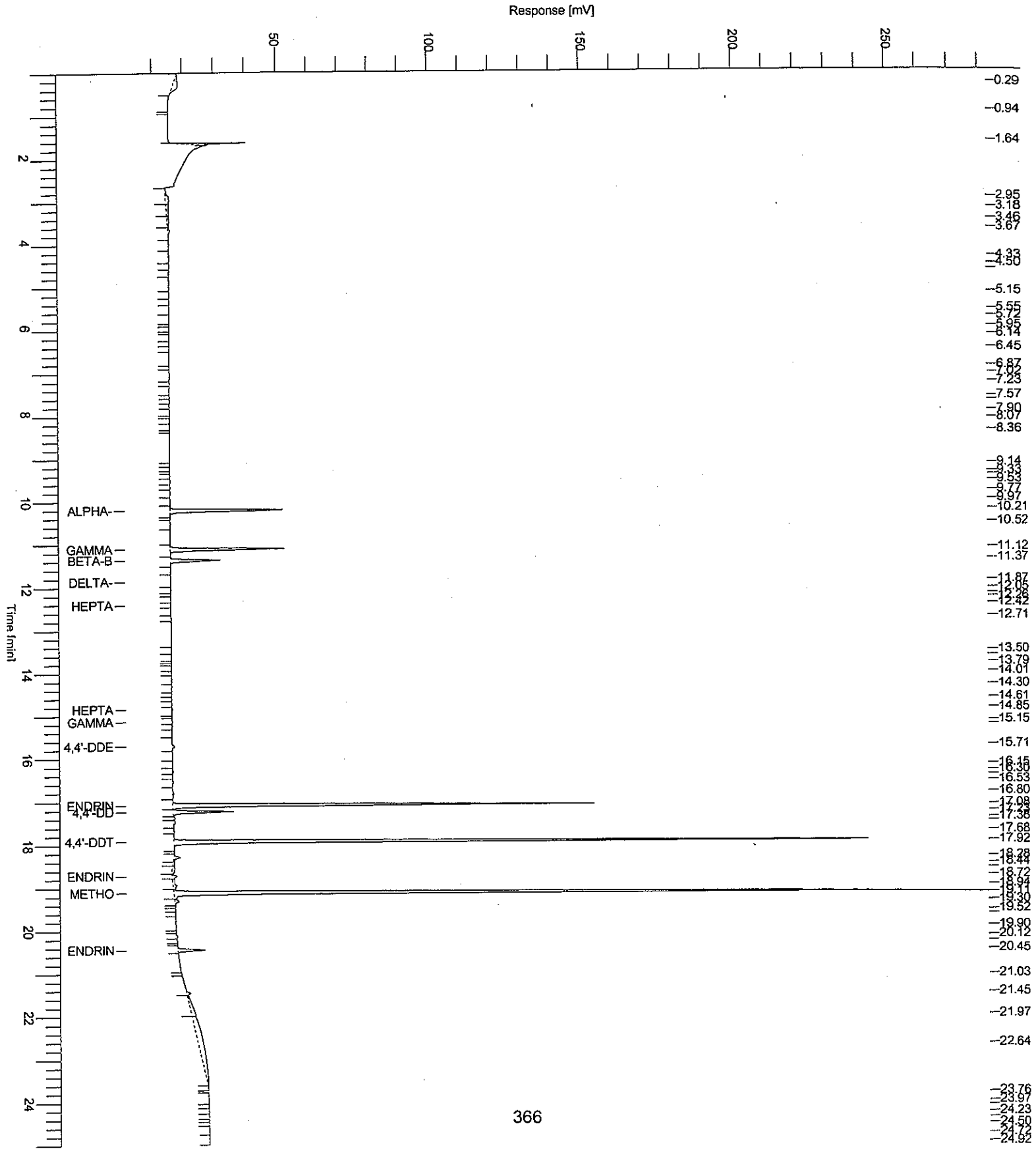
Report stored in ASCII file: G:\gc21\CHA\337a004.TX0

GC21 Rtx-CLPesticides

ample Name : pem,04ws2193 Sample #: Page 1 of 1
ileName : G:\gc21\CHa\337a004.raw
ate : 12/2/04 11:12:15 AM
lethod : gc21ins Time of Injection: 12/2/04 10:43:07 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 0.78 mV High Point : 282.68 mV
cale Factor: 1.0 Plot Offset: 0.78 mV Plot Scale: 281.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 4

Date : 12/2/04 11:12:19 AM
Data Acquisition Time : 12/2/04 10:43:07 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\337b004.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.821	0.00	0.0000	1.000	1	0.00
alpha-BHC	9.532	107291.50	8.1968	1.000	1	8.20
gamma-BHC	10.499	96649.76	8.3555	1.000	1	8.36
beta-BHC	10.719	40427.00	8.3577	1.000	1	8.36
delta-BHC	11.519	835.40	0.0691	1.000	1	0.07
Heptachlor	11.650	0.00	0.0000	1.000	1	0.00
Aldrin	12.489	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.970	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	14.418	1651.00	0.1636	1.000	1	0.16
alpha-Chlordane	14.821	0.00	0.0000	1.000	1	0.00
Endosulfan I	14.963	762.88	0.0848	1.000	1	0.08
4,4'-DDE	15.297	2781.74	0.2781	1.000	1	0.28
Dieldrin	15.676	76.00	0.0077	1.000	1	0.01
Endrin	16.404	286098.00	40.3842	1.000	1	40.38
4,4'-DDD	16.728	46529.30	5.5962	1.000	1	5.60
Endosulfan II	16.915	0.00	0.0000	1.000	1	0.00
4,4'-DDT	17.498	529394.56	78.0225	1.000	1	78.02
Endrin aldehyde	17.769	5931.69	0.8697	1.000	1	0.87
Endosulfan sulfate	18.420	754.61	0.1004	1.000	1	0.10
Methoxychlor	19.215	535547.29	189.0986	1.000	1	189.10
Endrin ketone	19.752	24073.72	2.5849	1.000	1	2.58
Decachlorobiphenyl	21.986	0.00	0.0000	1.000	1	0.00
		1678804.46	342.1697			342.17

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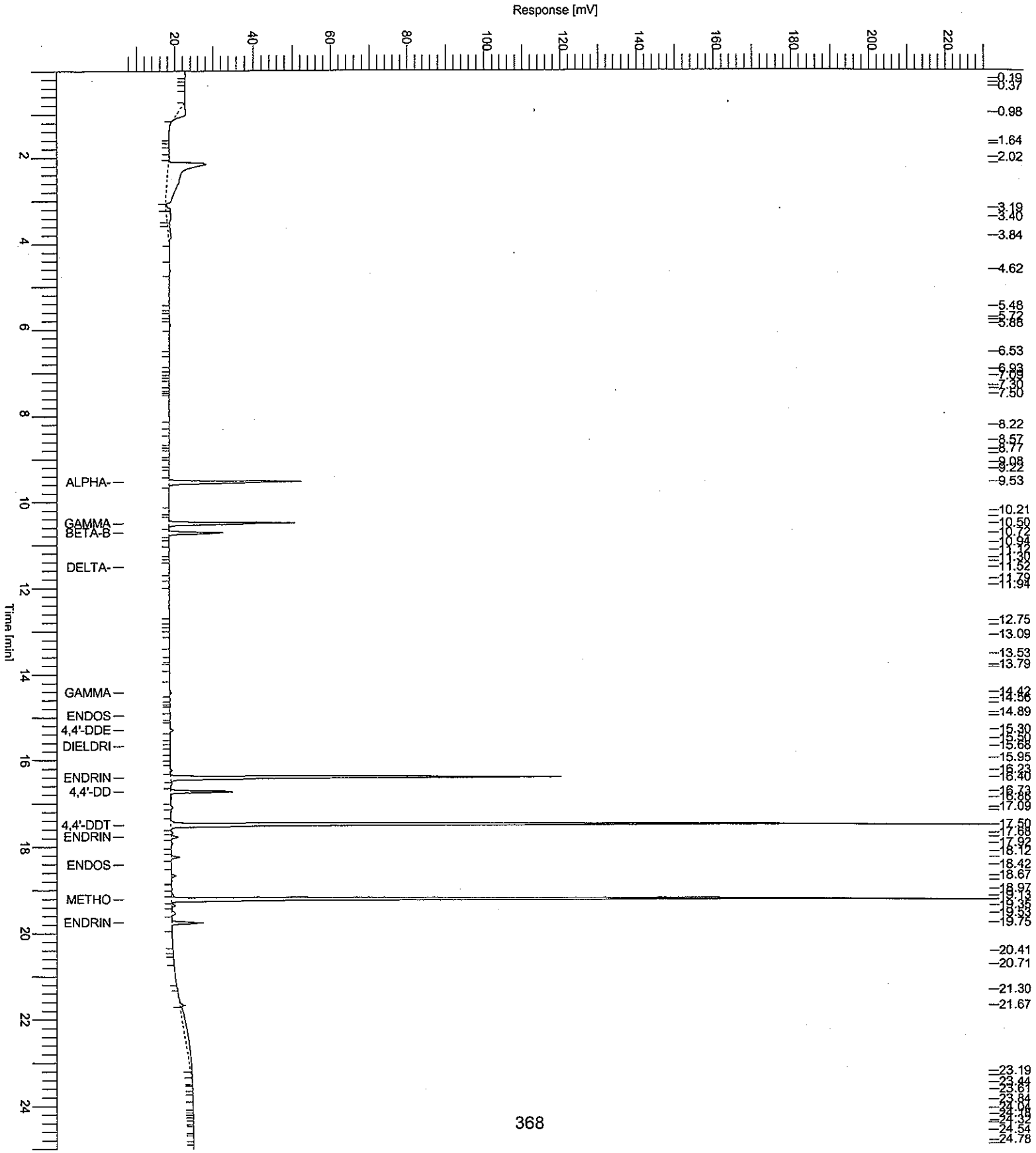
Report stored in ASCII file: G:\gc21\CHB\337b004.TX0

GC21 Rtx-CLPesticides2

ample Name : pem,04ws2193 Sample #: Page 1 of 1
ileName : G:\gc21\CHb\337b004
ate : 12/2/04 11:12:23 AM
ethod : gc21ins Time of Injection: 12/2/04 10:43:07 AM
tart Time : 0.00 min Ehd Time : 25.00 min Low Point : 6.65 mV High Point : 231.17 mV
cale Factor: 1.0 Plot Offset: 6.65 mV Plot Scale: 224.5 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244485881018 Run Name: Injected: 02-DEC-2004 18:05
Filename: 337_018 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	374240.87
Endrin aldehyde	A	7487.53
Endrin ketone	A	28992.86

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	624522.83
4,4'-DDE	A	2960.16
4,4'-DDD	A	64851.72

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	326641.19
Endrin aldehyde	B	7099.85
Endrin ketone	B	31411.91

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	600939.95
4,4'-DDE	B	2951.61
4,4'-DDD	B	60153.83

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 12/3/04 8:09:27 AM
Data Acquisition Time : 12/2/04 6:05:30 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\337a018.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.487	242.87	0.0315	1.000	1	0.03
alpha-BHC	10.200	113286.54	9.0951	1.000	1	9.10
gamma-BHC	11.106	105248.50	9.3457	1.000	1	9.35
beta-BHC	11.364	45764.00	9.3021	1.000	1	9.30
delta-BHC	11.868	237.43	0.0201	1.000	1	0.02
Heptachlor	12.403	156.00	0.0153	1.000	1	0.02
Aldrin	13.223	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	14.849	1096.50	0.1112	1.000	1	0.11
gamma-Chlordane	15.138	952.30	0.0957	1.000	1	0.10
alpha-Chlordane	15.546	181.34	0.0189	1.000	1	0.02
4,4'-DDE	15.712	2960.16	0.3030	1.000	1	0.30
Endosulfan I	15.892	301.72	0.0334	1.000	1	0.03
Dieldrin	16.469	0.00	0.0000	1.000	1	0.00
Endrin	17.081	374240.87	48.2723	1.000	1	48.27
4,4'-DDD	17.229	64851.72	8.0133	1.000	1	8.01
Endosulfan II	17.618	3799.83	0.4567	1.000	1	0.46
4,4'-DDT	17.919	624522.83	91.6036	1.000	1	91.60
Endrin aldehyde	18.717	7487.53	1.1112	1.000	1	1.11
Methoxychlor	19.113	694949.41	233.8212	1.000	1	233.82
Endosulfan sulfate	19.782	0.00	0.0000	1.000	1	0.00
Endrin ketone	20.445	28992.86	3.6196	1.000	1	3.62
Decachlorobiphenyl	22.099	0.00	0.0000	1.000	1	0.00
		2069272.41	415.2698			415.27

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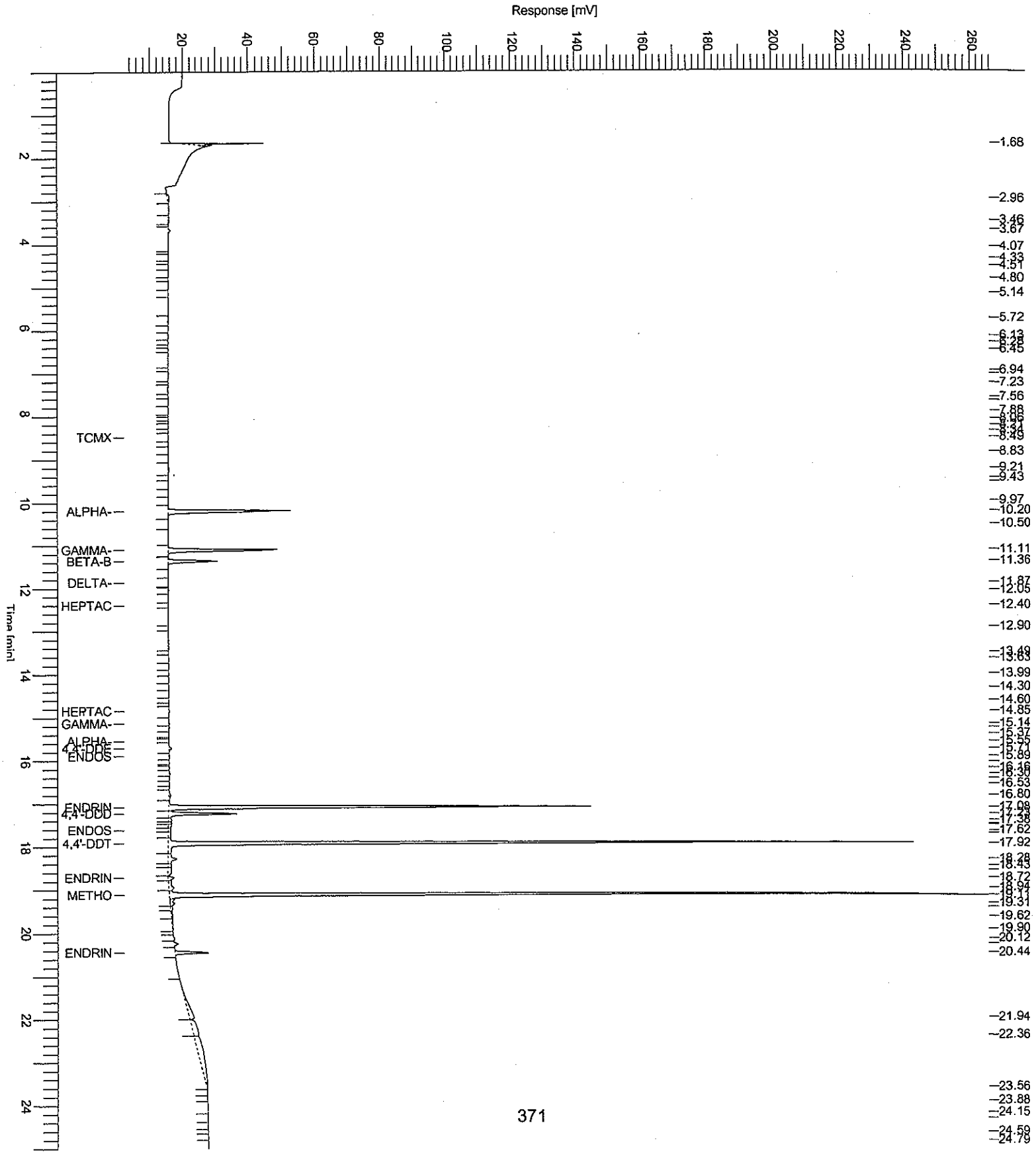
Report stored in ASCII file: G:\gc21\CHA\337a018.TX0

GC21 Rtx-CLPesticides

ample Name : pem,04ws2193 Sample #: Page 1 of 1
ileName : G:\gc21\CHa\337a018.raw
ate : 12/3/04 8:09:32 AM
lethod : gc21ins Time of Injection: 12/2/04 6:05:30 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 2.18 mV High Point : 266.24 mV
cale Factor: 1.0 Plot Offset: 2.18 mV Plot Scale: 264.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 18

Date : 12/3/04 8:08:45 AM
Data Acquisition Time : 12/2/04 6:05:30 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\337b018.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.817	290.00	0.0341	1.000	1	0.03
alpha-BHC	9.531	106913.33	8.1679	1.000	1	8.17
gamma-BHC	10.497	98373.50	8.5046	1.000	1	8.50
beta-BHC	10.718	42674.00	8.8222	1.000	1	8.82
delta-BHC	11.501	139.36	0.0115	1.000	1	0.01
Heptachlor	11.650	0.00	0.0000	1.000	1	0.00
Aldrin	12.489	0.00	0.0000	1.000	1	0.00
Heptachlor epoxide	13.970	0.00	0.0000	1.000	1	0.00
gamma-Chlordane	14.418	2002.45	0.1985	1.000	1	0.20
alpha-Chlordane	14.814	300.01	0.0313	1.000	1	0.03
Endosulfan I	14.962	968.70	0.1076	1.000	1	0.11
4,4'-DDE	15.296	2951.61	0.2951	1.000	1	0.30
Dieldrin	15.636	329.00	0.0332	1.000	1	0.03
Endrin	16.403	326641.19	46.1071	1.000	1	46.11
4,4'-DDD	16.721	60153.83	7.2349	1.000	1	7.23
Endosulfan II	16.931	1287.15	0.1500	1.000	1	0.15
4,4'-DDT	17.497	600939.95	88.5670	1.000	1	88.57
Endrin aldehyde	17.768	7099.85	1.0410	1.000	1	1.04
Endosulfan sulfate	18.418	581.36	0.0773	1.000	1	0.08
Methoxychlor	19.213	650144.30	229.5621	1.000	1	229.56
Endrin ketone	19.752	31411.91	3.3728	1.000	1	3.37
Decachlorobiphenyl	21.986	0.00	0.0000	1.000	1	0.00
		1933201.51	402.3180			402.32

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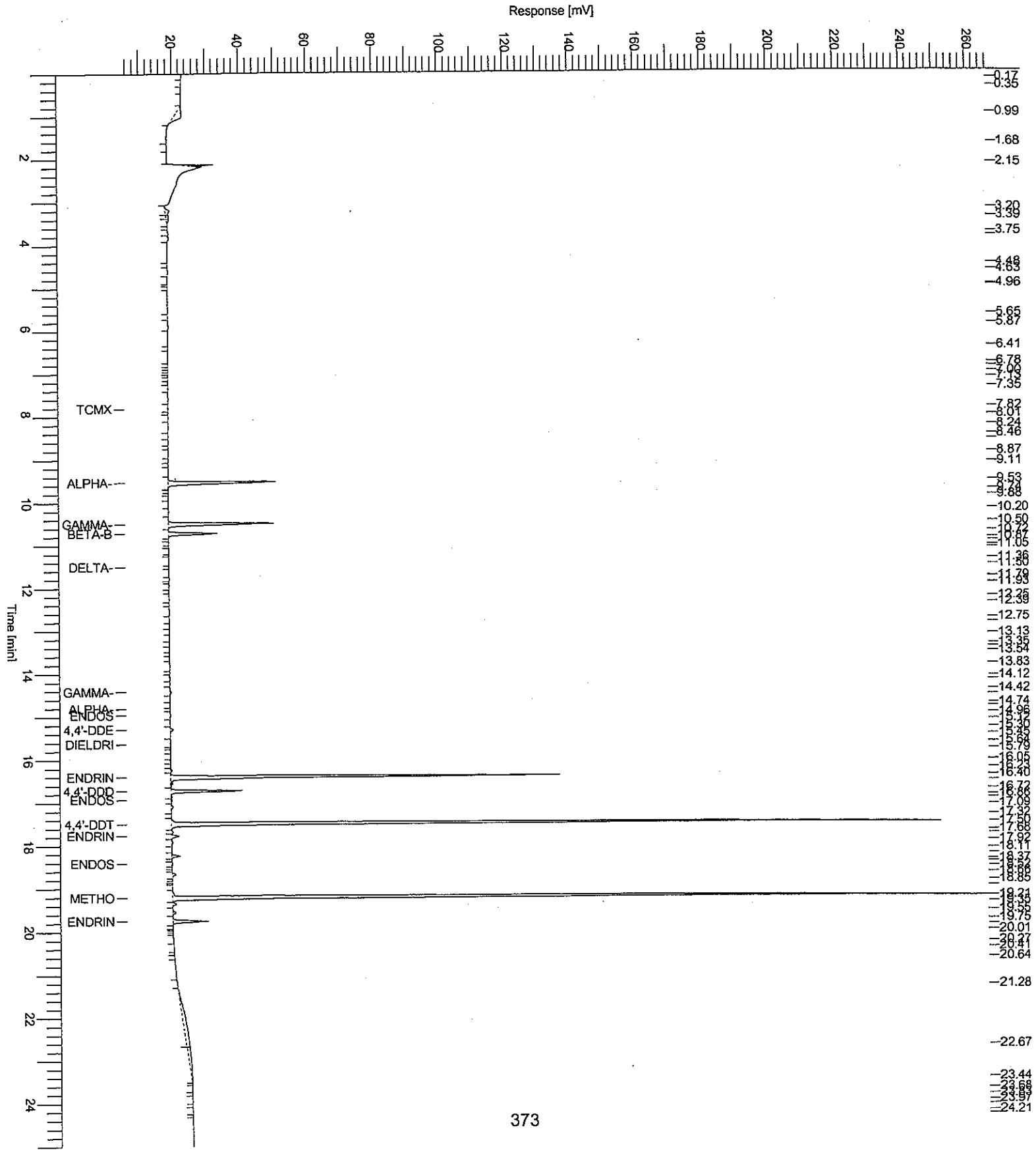
Report stored in ASCII file: G:\gc21\CHB\337b018.TX0

GC21 Rtx-CLPesticides2

ample Name : pem,04ws2193 Sample #: Page 1 of 1
ileName : G:\gc21\CHb\337b018
ate : 12/3/04 8:08:50 AM
lethod : gc21ins Time of Injection: 12/2/04 6:05:30 PM
tart Time : 0.00 min Ehd Time : 25.00 min Low Point : 5.19 mV High Point : 266.15 mV
cale Factor: 1.0 Plot Offset: 5.19 mV Plot Scale: 261.0 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804485916035 Run Name: Injected: 03-DEC-2004 06:00
Filename: 337_035 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	500381.06
Endrin aldehyde	A	7400.5
Endrin ketone	A	21353

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	966898
4,4'-DDE	A	3083
4,4'-DDD	A	56776.97

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	791626
Endrin aldehyde	B	23090
Endrin ketone	B	46631.19

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1409044
4,4'-DDE	B	6300
4,4'-DDD	B	93946.4

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 12/3/04 8:06:42 AM
Data Acquisition Time : 12/3/04 6:00:03 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\337a035.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.357	0.00	0.0000	1.000	1	0.000
alpha-BHC	7.915	155876.62	9.0374	1.000	1	9.037
gamma-BHC	8.772	144088.71	9.2794	1.000	1	9.279
beta-BHC	9.048	62636.29	9.6871	1.000	1	9.687
delta-BHC	9.525	2440.42	0.1558	1.000	1	0.156
Heptachlor	10.025	214.00	0.0157	1.000	1	0.016
Aldrin	10.825	1560.78	0.1097	1.000	1	0.110
Heptachlor epoxide	12.396	112.00	0.0086	1.000	1	0.009
gamma-Chlordane	12.710	299.65	0.0227	1.000	1	0.023
alpha-Chlordane	13.043	1464.59	0.1142	1.000	1	0.114
4,4'-DDE	13.301	3083.00	0.2384	1.000	1	0.238
Endosulfan I	13.343	0.00	0.0000	1.000	1	0.000
Dieldrin	13.938	1626.61	0.1248	1.000	1	0.125
Endrin	14.531	500381.06	46.3165	1.000	1	46.317
4,4'-DDD	14.785	56776.97	5.4056	1.000	1	5.406
Endosulfan II	15.085	3855.29	0.3437	1.000	1	0.344
4,4'-DDT	15.466	966898.00	101.6831	1.000	1	101.683
Endrin aldehyde	16.145	7400.50	0.8415	1.000	1	0.842
Methoxychlor	16.712	1088595.96	273.6951	1.000	1	273.695
Endosulfan sulfate	17.198	1048.57	0.1067	1.000	1	0.107
Endrin ketone	17.863	21353.00	1.8414	1.000	1	1.841
Decachlorobiphenyl	20.278	2778.59	0.3533	1.000	1	0.353
		3022490.63	459.3808			459.381

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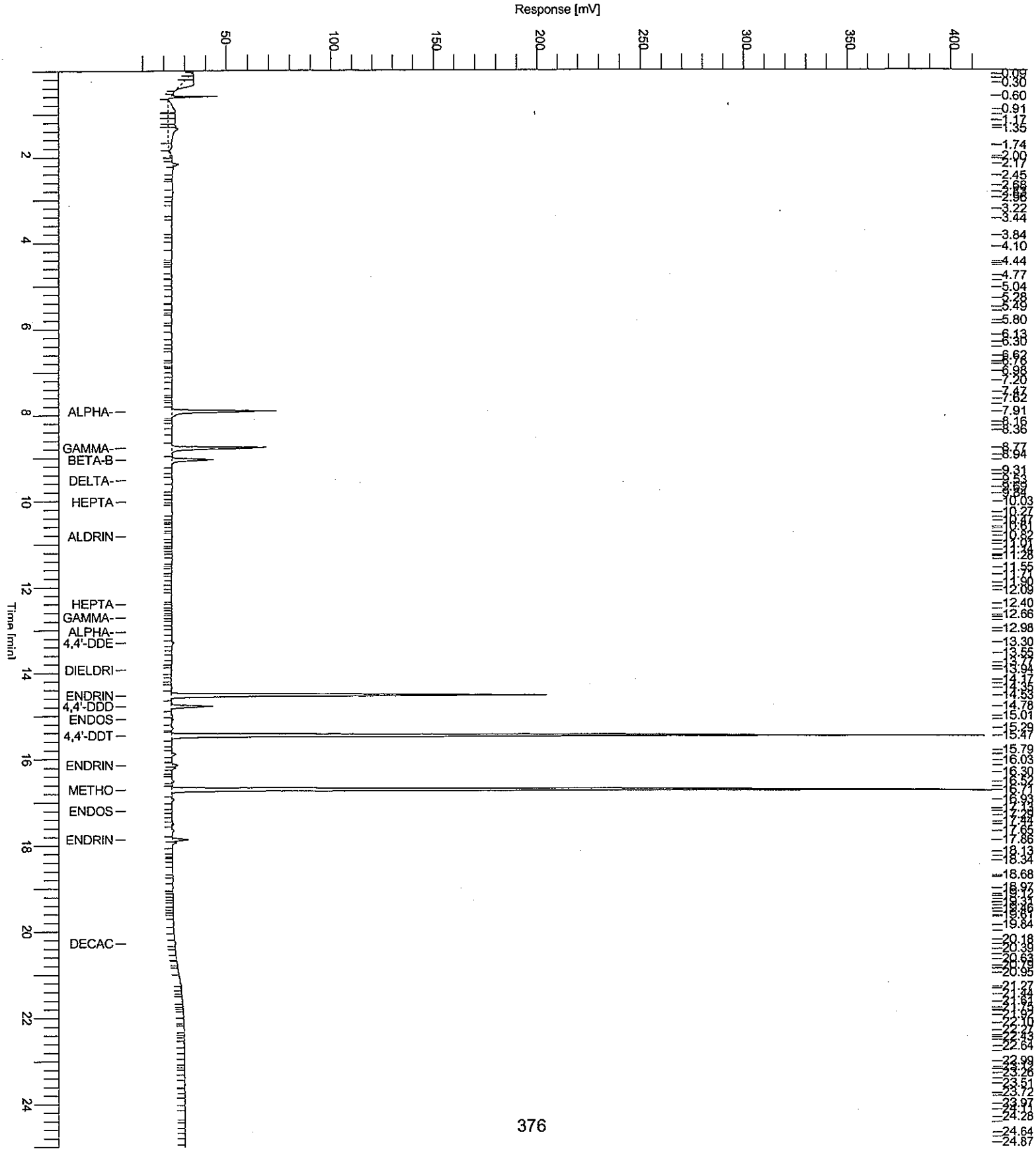
Report stored in ASCII file: G:\gc23\CHA\337a035.TX0

GC23 Rtx-CLPesticides

Sample Name : pem,04ws2193 Sample #: Page 1 of 1
FileName : G:\gc23\CHa\337a035.raw
Date : 12/3/04 8:06:47 AM
Method : gc23ins Time of Injection: 12/3/04 6:00:03 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : 1.97 mV High Point : 418.78 mV
Scale Factor: 1.0 Plot Offset: 1.97 mV Plot Scale: 416.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 35

Date : 12/3/04 8:07:06 AM
Data Acquisition Time : 12/3/04 6:00:03 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\337b035.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.738	2610.10	0.1769	1.000	1	0.177
alpha-BHC	8.351	236350.66	9.9063	1.000	1	9.906
gamma-BHC	9.288	220248.00	10.1613	1.000	1	10.161
beta-BHC	9.522	96347.20	10.5667	1.000	1	10.567
delta-BHC	10.285	2693.97	0.1250	1.000	1	0.125
Heptachlor	10.426	1747.55	0.1059	1.000	1	0.106
Aldrin	11.232	2489.00	0.1246	1.000	1	0.125
Heptachlor epoxide	12.701	3666.22	0.1966	1.000	1	0.197
gamma-Chlordane	13.170	2367.00	0.1277	1.000	1	0.128
alpha-Chlordane	13.547	1929.00	0.1080	1.000	1	0.108
Endosulfan I	13.673	3560.63	0.2130	1.000	1	0.213
4,4'-DDE	14.035	6300.00	0.3580	1.000	1	0.358
Dieldrin	14.338	2482.40	0.1399	1.000	1	0.140
Endrin	15.081	791626.00	54.5762	1.000	1	54.576
4,4'-DDD	15.452	93946.40	6.7569	1.000	1	6.757
Endosulfan II	15.605	5155.10	0.3415	1.000	1	0.342
4,4'-DDT	16.214	1409044.00	108.7360	1.000	1	108.736
Endrin aldehyde	16.447	23090.00	2.0134	1.000	1	2.013
Endosulfan sulfate	17.123	3422.00	0.2629	1.000	1	0.263
Methoxychlor	17.945	1449488.48	279.3318	1.000	1	279.332
Endrin ketone	18.395	46631.19	2.8382	1.000	1	2.838
Decachlorobiphenyl	21.120	0.00	0.0000	1.000	1	0.000
		4405194.90	487.1667			487.167

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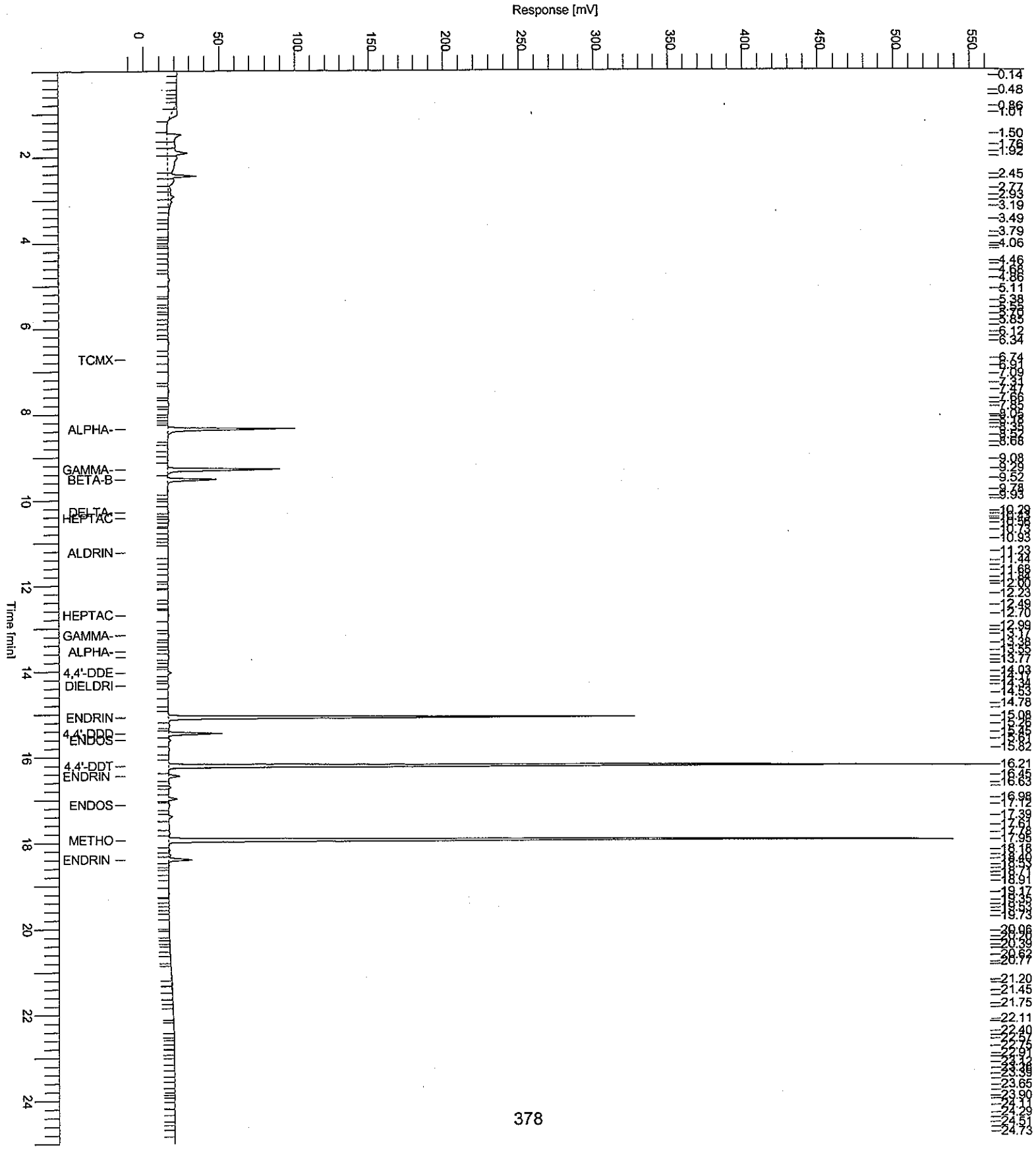
Report stored in ASCII file: G:\gc23\CHB\337b035.TX0

GC23 Rtx-CLPesticides2

Sample Name : pem,04ws2193 Sample #: Page 1 of 1
FileName : G:\gc23\CHb\337b035
Date : 12/3/04 8:07:11 AM
Method : gc23ins Time of Injection: 12/3/04 6:00:03 AM
Start Time : 0.00 min End Time : 25.00 min Low Point : -12.21 mV High Point : 562.54 mV
Scale Factor: 1.0 Plot Offset: -12.21 mV Plot Scale: 574.7 mV



PERFORMANCE EVALUATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804485916042 Run Name: Injected: 03-DEC-2004 17:55
Filename: 337_042 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	528686.35
Endrin aldehyde	A	20009.17
Endrin ketone	A	26907.49

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	1024961.5
4,4'-DDE	A	5482.1
4,4'-DDD	A	73563.73

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	806921.91
Endrin aldehyde	B	10621.15
Endrin ketone	B	22565.62

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1488142.24
4,4'-DDE	B	4542
4,4'-DDD	B	57927.77

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 42

Date : 12/5/04 1:34:33 PM
Data Acquisition Time : 12/3/04 5:55:39 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\337a042p.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.357	0.00	0.0000	1.000	1	0.000
alpha-BHC	7.922	161008.07	9.3349	1.000	1	9.335
gamma-BHC	8.784	146946.47	9.4635	1.000	1	9.463
beta-BHC	9.054	64182.53	9.9263	1.000	1	9.926
delta-BHC	9.531	1428.00	0.0912	1.000	1	0.091
Heptachlor	10.049	147.00	0.0108	1.000	1	0.011
Aldrin	10.839	1113.13	0.0782	1.000	1	0.078
Heptachlor epoxide	12.410	1405.02	0.1074	1.000	1	0.107
gamma-Chlordane	12.724	1595.92	0.1209	1.000	1	0.121
alpha-Chlordane	13.052	1571.50	0.1226	1.000	1	0.123
4,4'-DDE	13.313	5482.10	0.4240	1.000	1	0.424
Endosulfan I	13.383	1148.64	0.0986	1.000	1	0.099
Dieldrin	13.961	2627.19	0.2015	1.000	1	0.202
Endrin	14.537	528686.35	48.9365	1.000	1	48.937
4,4'-DDD	14.796	73563.73	7.0038	1.000	1	7.004
Endosulfan II	15.089	2235.34	0.1993	1.000	1	0.199
4,4'-DDT	15.471	1024961.50	107.7893	1.000	1	107.789
Endrin aldehyde	16.156	20009.17	2.2753	1.000	1	2.275
Methoxychlor	16.716	1143160.06	287.4137	1.000	1	287.414
Endosulfan sulfate	17.216	545.00	0.0555	1.000	1	0.055
Endrin ketone	17.869	26907.49	2.3203	1.000	1	2.320
Decachlorobiphenyl	20.338	288.50	0.0367	1.000	1	0.037
		3209012.72	486.0101			486.010

CB
12/5/04

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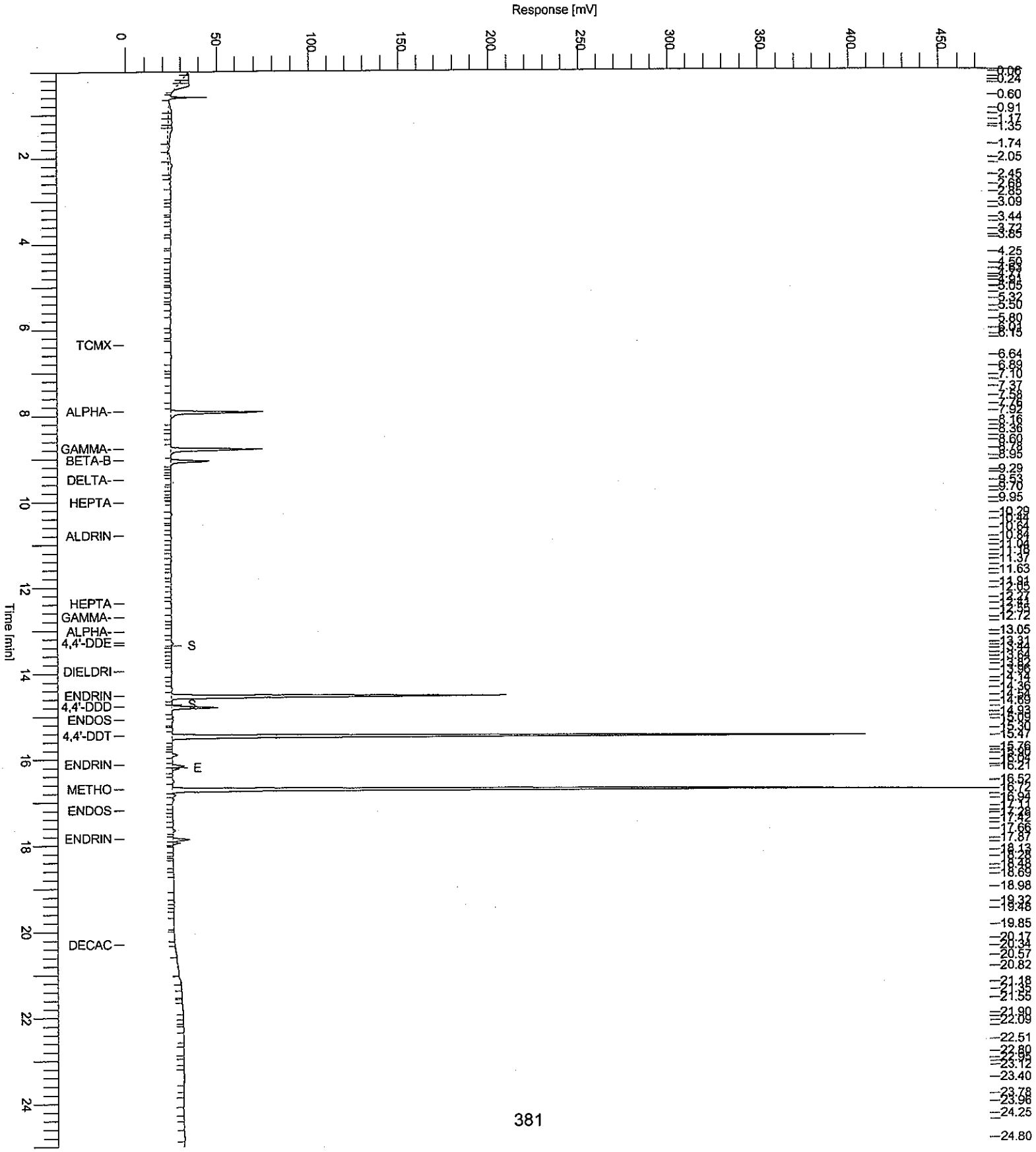
Report stored in ASCII file: G:\gc23\CHA\337a042p.TX0

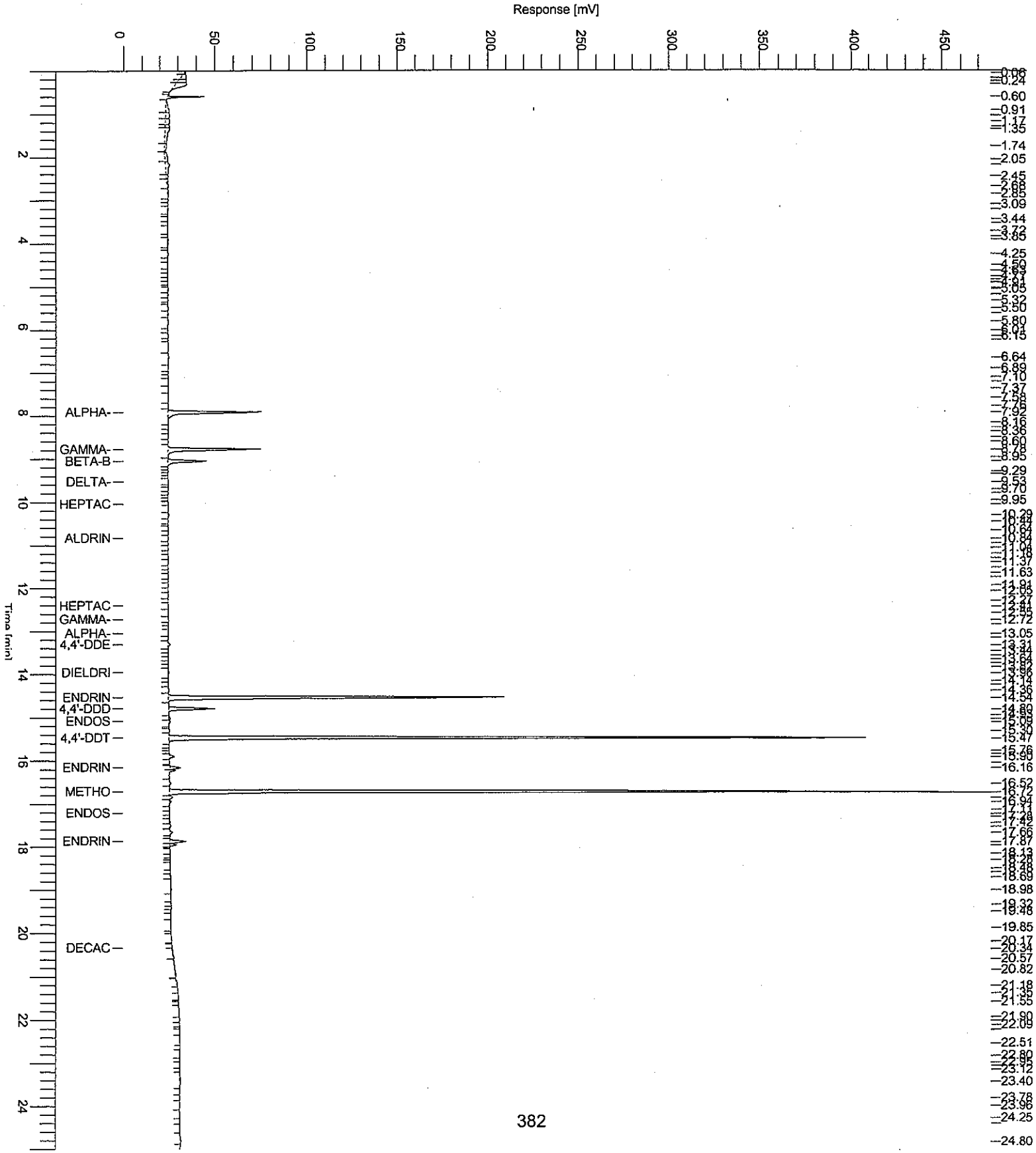
GC23 Rtx-CLPesticides

Sample Name : pem,04ws2193 Sample #:
FileName : G:\gc23\CHa\337a042.raw
Date : 12/5/04 1:34:38 PM
Method :
Time of Injection: 12/3/04 5:55:39 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -1.41 mV High Point : 476.66 mV
Plot Offset: -1.41 mV Plot Scale: 478.1 mV



GC23 Rtx-CLPesticides

iample Name : pem,04ws2193 Sample #: Page 1 of 1
'ileName : G:\gc23\CHa\337a042.raw
)ate : 12/5/04 11:14:31 AM
/lethod : gc23ins Time of Injection: 12/3/04 5:55:39 PM
itart Time : 0.00 min End Time : 25.00 min Low Point : -0.22 mV High Point : 476.66 mV
icale Factor: 1.0 Plot Offset: -0.22 mV Plot Scale: 476.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : pem,04ws2193
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 42

Date : 12/5/04 11:15:26 AM
Data Acquisition Time : 12/3/04 5:55:39 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\337b042.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.749	1131.79	0.0767	1.000	1	0.077
alpha-BHC	8.364	228452.00	9.5753	1.000	1	9.575
gamma-BHC	9.302	212812.22	9.8183	1.000	1	9.818
beta-BHC	9.535	93514.37	10.2560	1.000	1	10.256
delta-BHC	10.307	590.81	0.0274	1.000	1	0.027
Heptachlor	10.413	0.00	0.0000	1.000	1	0.000
Aldrin	11.172	170.28	0.0085	1.000	1	0.009
Heptachlor epoxide	12.717	723.86	0.0388	1.000	1	0.039
gamma-Chlordane	13.184	316.85	0.0171	1.000	1	0.017
alpha-Chlordane	13.548	396.23	0.0222	1.000	1	0.022
Endosulfan I	13.648	0.00	0.0000	1.000	1	0.000
4,4'-DDE	14.046	4542.00	0.2581	1.000	1	0.258
Dieldrin	14.348	441.27	0.0249	1.000	1	0.025
Endrin	15.086	806921.91	55.6307	1.000	1	55.631
4,4'-DDD	15.463	57927.77	4.1663	1.000	1	4.166
Endosulfan II	15.589	0.00	0.0000	1.000	1	0.000
4,4'-DDT	16.218	1488142.24	114.8400	1.000	1	114.840
Endrin aldehyde	16.451	10621.15	0.9261	1.000	1	0.926
Endosulfan sulfate	17.151	1401.85	0.1077	1.000	1	0.108
Methoxychlor	17.949	1505321.26	290.0914	1.000	1	290.091
Endrin ketone	18.399	22565.62	1.3734	1.000	1	1.373
Decachlorobiphenyl	21.120	0.00	0.0000	1.000	1	0.000
		4435993.49	497.2590			497.259

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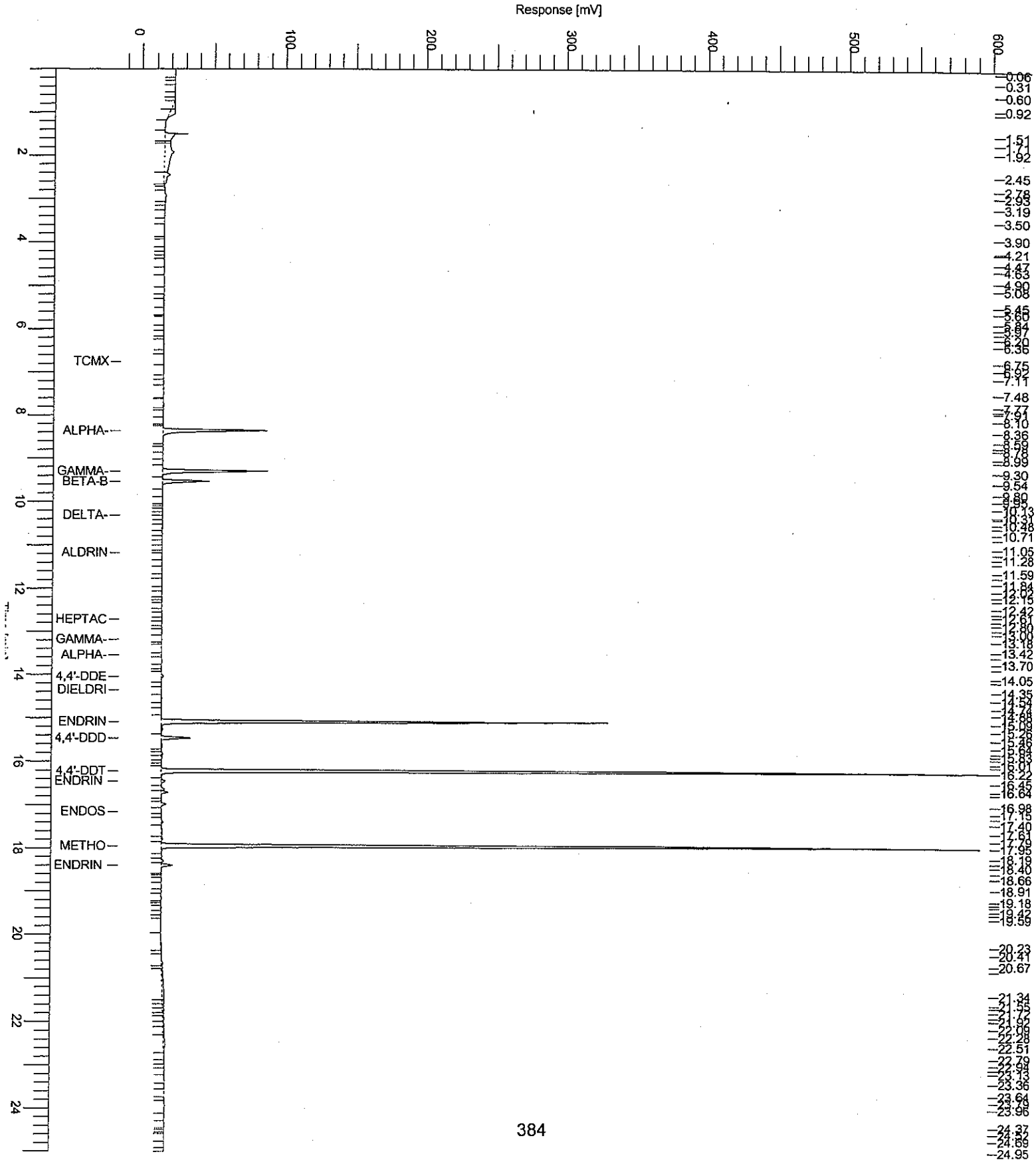
Report stored in ASCII file: G:\gc23\CHB\337b042.TX0

GC23 Rtx-CLPesticides2

ample Name : pem,04ws2193 Sample #: Page 1 of 1
ileName : G:\gc23\CHb\337b042
ate : 12/5/04 11:15:29 AM
ethod : gc23ins Time of Injection: 12/3/04 5:55:39 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -14.56 mV High Point : 600.78 mV
cale Factor: 1.0 Plot Offset: -14.56 mV Plot Scale: 615.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804481659008
Calnum : 804457447001
Standards: 04WS2052

Run Name : pest_4
Filename : 334_008
Caldate : 12-NOV-2004

IDF : 1.0
Injected : 29-NOV-2004 14:15
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	18635	20.00000	21.60808	pg	8	15	
gamma-BHC	A	15528	16601	20.00000	21.38190	pg	7	15	
beta-BHC	A	6465.9	6984.9	20.00000	21.60527	pg	8	15	
delta-BHC	A	15663	16621	20.00000	21.22278	pg	6	15	
Heptachlor	A	13666	14715	20.00000	21.53423	pg	8	15	
Aldrin	A	14226	14795	20.00000	20.80002	pg	4	15	
Heptachlor epoxide	A	13081	13616	20.00000	20.81813	pg	4	15	
gamma-Chlordane	A	13204	13629	20.00000	20.64462	pg	3	15	
alpha-Chlordane	A	12820	13227	20.00000	20.63519	pg	3	15	
4,4'-DDE	A	12930	14034	40.00000	43.41556	pg	9	15	
Endosulfan I	A	11649	11891	20.00000	20.41456	pg	2	15	
Dieldrin	A	13038	13705	40.00000	42.04671	pg	5	15	
Endrin	A	10804	11299	40.00000	41.83310	pg	5	15	
4,4'-DDD	A	10503	10513	40.00000	40.03763	pg	0	15	
Endosulfan II	A	11217	11808	40.00000	42.10769	pg	5	15	
4,4'-DDT	A	9508.9	11163	40.00000	46.95814	pg	17	15	c+ ***
Endrin aldehyde	A	8794.0	8906.1	40.00000	40.51017	pg	1	15	
Methoxychlor	A	3977.4	5390.5	200.0000	271.0547	pg	36	15	c+ ***
Endosulfan sulfate	A	9824.1	10117	40.00000	41.19229	pg	3	15	
Endrin ketone	A	11596	12626	40.00000	43.55234	pg	9	15	
TCMX	A	10733	12016	40.00000	44.78273	pg	12	15	
Decachlorobiphenyl	A	7863.9	8965.3	40.00000	45.60236	pg	14	15	
alpha-BHC	B	23859	22783	20.00000	19.09822	pg	-5	15	
gamma-BHC	B	21675	20364	20.00000	18.79016	pg	-6	15	
beta-BHC	B	9118.0	8656.7	20.00000	18.98801	pg	-5	15	
delta-BHC	B	21560	19842	20.00000	18.40630	pg	-8	15	
Heptachlor	B	16495	14113	20.00000	17.11270	pg	-14	15	
Aldrin	B	19980	19429	20.00000	19.44898	pg	-3	15	
Heptachlor epoxide	B	18652	17459	20.00000	18.72121	pg	-6	15	
gamma-Chlordane	B	18532	18025	20.00000	19.45223	pg	-3	15	
alpha-Chlordane	B	17862	17399	20.00000	19.48138	pg	-3	15	
4,4'-DDE	B	17597	19930	40.00000	45.30331	pg	13	15	
Endosulfan I	B	16719	15843	20.00000	18.95244	pg	-5	15	
Dieldrin	B	17750	16985	40.00000	38.27697	pg	-4	15	
Endrin	B	14505	11970	40.00000	33.00837	pg	-17	15	c- ***
4,4'-DDD	B	13904	11986	40.00000	34.48158	pg	-14	15	
Endosulfan II	B	15094	15476	40.00000	41.01413	pg	3	15	
4,4'-DDT	B	12958	12908	40.00000	39.84532	pg	0	15	
Endrin aldehyde	B	11468	11028	40.00000	38.46588	pg	-4	15	
Methoxychlor	B	5189.1	5110.1	200.0000	196.9545	pg	-2	15	
Endosulfan sulfate	B	13019	12807	40.00000	39.34859	pg	-2	15	
Endrin ketone	B	16430	14728	40.00000	35.85682	pg	-10	15	
TCMX	B	14757	15027	40.00000	40.73275	pg	2	15	
Decachlorobiphenyl	B	10420	12155	40.00000	46.66004	pg	17	15	c+
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias -=low bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2052,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 11/29/04 3:00:37 PM
Data Acquisition Time : 11/29/04 2:15:21 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a008p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.516	480642.89	44.7827	1.000	1	44.783
alpha-BHC	8.065	372695.50	21.6081	1.000	1	21.608
gamma-BHC	8.930	332012.38	21.3819	1.000	1	21.382
beta-BHC	9.199	139698.33	21.6053	1.000	1	21.605
delta-BHC	9.656	332417.03	21.2228	1.000	1	21.223
Heptachlor	10.196	294293.00	21.5342	1.000	1	21.534
Aldrin	10.969	295893.06	20.8000	1.000	1	20.800
Heptachlor epoxide	12.553	272328.00	20.8181	1.000	1	20.818
gamma-Chlordane	12.869	272588.00	20.6446	1.000	1	20.645
alpha-Chlordane	13.203	264545.01	20.6352	1.000	1	20.635
4,4'-DDE	13.462	561373.80	43.4156	1.000	1	43.416
Endosulfan I	13.530	237818.00	20.4146	1.000	1	20.415
Dieldrin	14.134	548203.00	42.0467	1.000	1	42.047
Endrin	14.698	451944.50	41.8331	1.000	1	41.833
4,4'-DDD	14.947	420530.07	40.0376	1.000	1	40.038
Endosulfan II	15.263	472324.90	42.1077	1.000	1	42.108
4,4'-DDT	15.629	446522.00	46.9581	1.000	1	46.958
Endrin aldehyde	16.311	356245.84	40.5102	1.000	1	40.510
Methoxychlor	16.867	1078094.09	271.0547	1.000	1	271.055
Endosulfan sulfate	17.379	404675.71	41.1923	1.000	1	41.192
Endrin ketone	18.033	505047.54	43.5523	1.000	1	43.552
Decachlorobiphenyl	20.449	358610.56	45.6024	1.000	1	45.602
		8898503.20	953.7582			953.758

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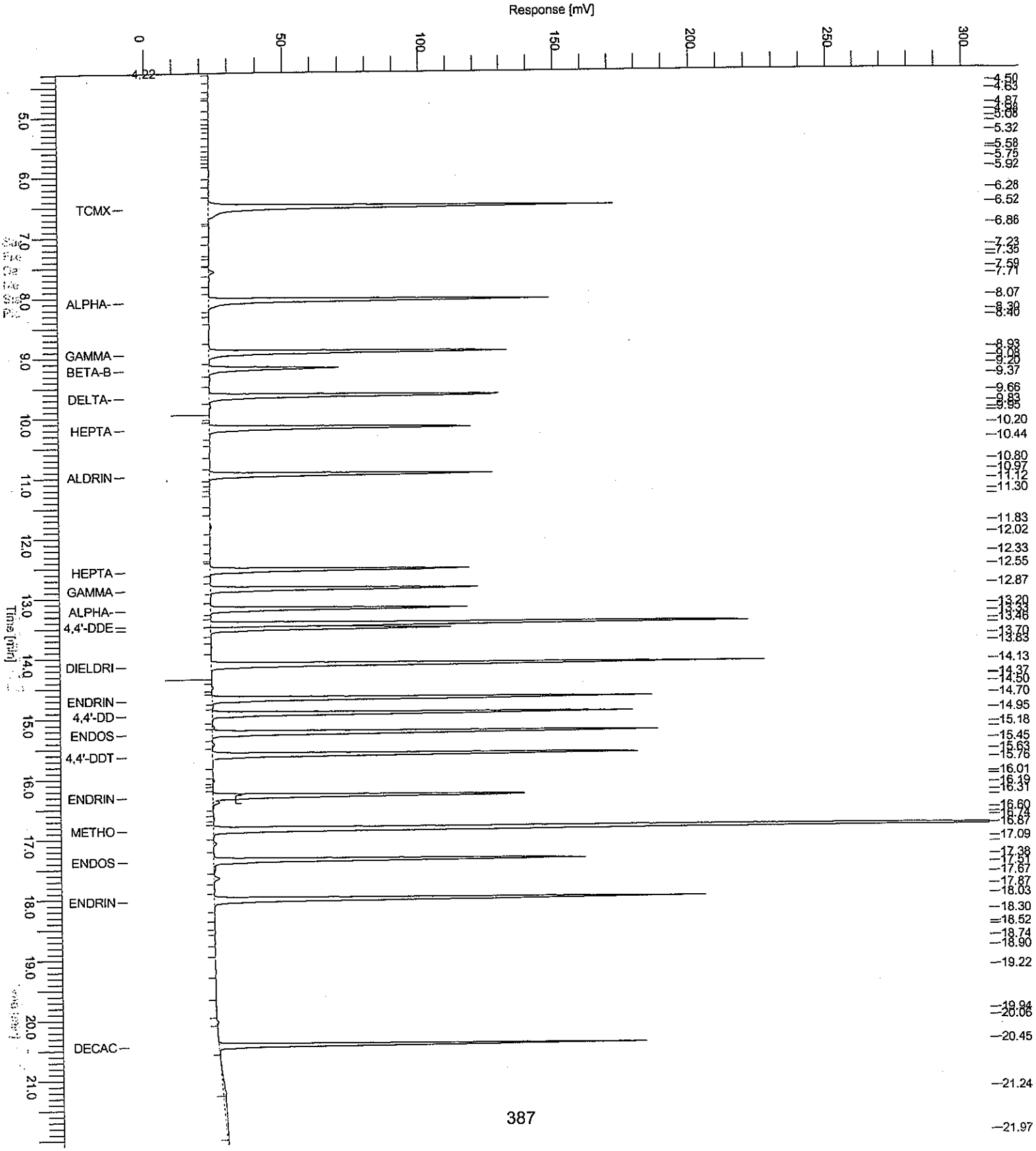
Report stored in ASCII file: G:\gc23\CHA\334a008p.TX0

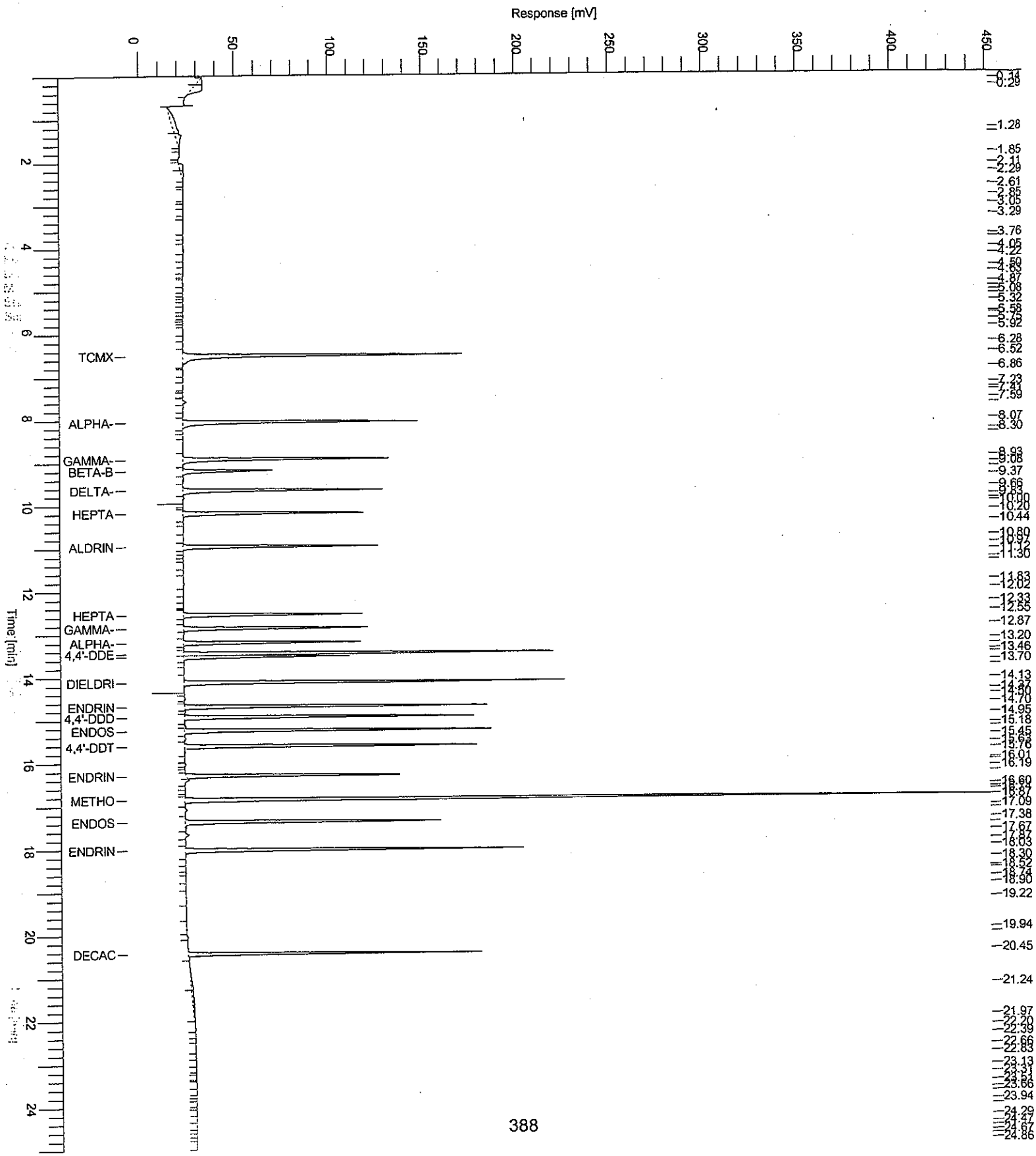
GC23 Rtx-CLPesticides

Sample Name : ccv,04ws2052,pest_4 Sample #: 20/40 ug/l Page 1 of 1
FileName : G:\gc23\CHa\334a008.raw
Date : 11/29/04 3:00:44 PM
Method :
Time of Injection: 11/29/04 2:15:21 PM
Start Time : 4.28 min End Time : 22.10 min Low Point : -7.99 mV High Point : 308.65 mV
Plot Offset: -7.99 mV Plot Scale: 316.6 mV



GC23 Rtx-CLPesticides

Sample Name : ccv,04ws2052,pest_4 Sample #: 20/40 ug/l
FileName : G:\gc23\CHa\334a008.raw
Date : 11/29/04 2:57:28 PM
Method : gc23ins Time of Injection: 11/29/04 2:15:21 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -6.84 mV High Point : 451.58 mV
Scale Factor: 1.0 Plot Offset: -6.84 mV Plot Scale: 458.4 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2052,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 8

Date : 11/29/04 2:57:39 PM
Data Acquisition Time : 11/29/04 2:15:21 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b008.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.857	601085.07	40.7327	1.000	1	40.733
alpha-BHC	8.497	455654.90	19.0982	1.000	1	19.098
gamma-BHC	9.436	407279.00	18.7902	1.000	1	18.790
beta-BHC	9.669	173133.00	18.9880	1.000	1	18.988
delta-BHC	10.432	396833.00	18.4063	1.000	1	18.406
Heptachlor	10.570	282266.00	17.1127	1.000	1	17.113
Aldrin	11.385	388584.00	19.4490	1.000	1	19.449
Heptachlor epoxide	12.855	349183.50	18.7212	1.000	1	18.721
gamma-Chlordane	13.330	360496.12	19.4522	1.000	1	19.452
alpha-Chlordane	13.701	347981.41	19.4814	1.000	1	19.481
Endosulfan I	13.817	316867.09	18.9524	1.000	1	18.952
4,4'-DDE	14.185	797195.50	45.3033	1.000	1	45.303
Dieldrin	14.499	679406.00	38.2770	1.000	1	38.277
Endrin	15.238	478785.45	33.0084	1.000	1	33.008
4,4'-DDD	15.603	479423.00	34.4816	1.000	1	34.482
Endosulfan II	15.765	619052.59	41.0141	1.000	1	41.014
4,4'-DDT	16.367	516331.39	39.8453	1.000	1	39.845
Endrin aldehyde	16.604	441137.66	38.4659	1.000	1	38.466
Endosulfan sulfate	17.281	512270.13	39.3486	1.000	1	39.349
Methoxychlor	18.097	1022022.35	196.9545	1.000	1	196.955
Endrin ketone	18.556	589124.00	35.8568	1.000	1	35.857
Decachlorobiphenyl	21.236	486212.98	46.6600	1.000	1	46.660
		10700324.12	818.3999			818.400

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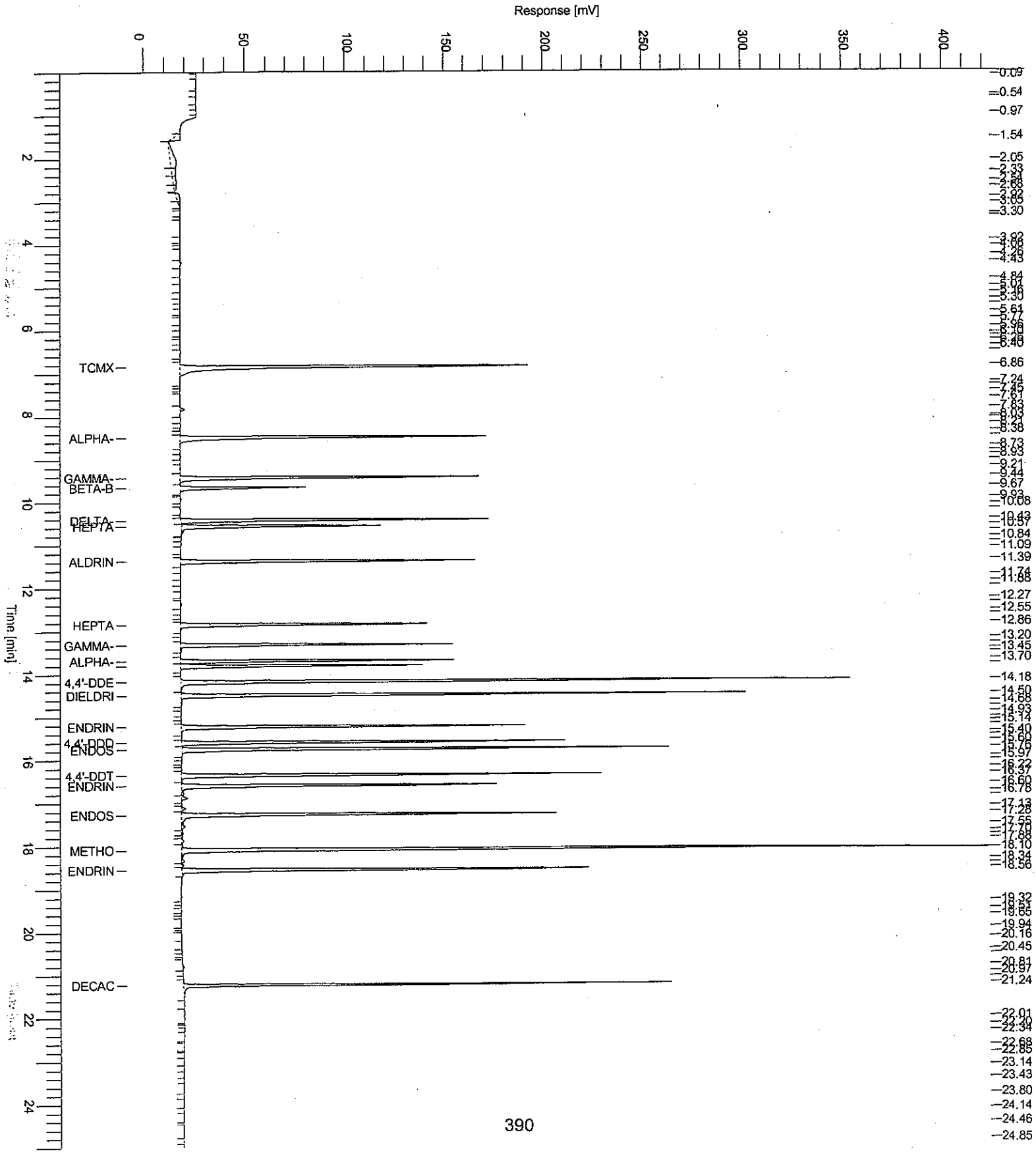
Report stored in ASCII file: G:\gc23\CHB\334b008.TX0

GC23 Rtx-CLPesticides2

Sample Name : ccv,04ws2052,pest_4 Sample #: 20/40 ug/l Page 1 of 1
FileName : G:\gc23\CHb\334b008
Date : 11/29/04 2:57:43 PM
Method : gc23ins Time of Injection: 11/29/04 2:15:21 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -8.48 mV High Point : 424.24 mV
Scale Factor: 1.0 Plot Offset: -8.48 mV Plot Scale: 432.7 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804481659023
Calnum : 804457447001
Standards: 04WS2051

Run Name : pest_3
Filename : 334_023
Caldate : 12-NOV-2004

IDF : 1.0
Injected : 29-NOV-2004 23:30
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	19451	10.00000	11.27753	pg	13	15	
gamma-BHC	A	15528	17376	10.00000	11.19037	pg	12	15	
beta-BHC	A	6465.9	7642.0	10.00000	11.81892	pg	18	15	c+ ***
delta-BHC	A	15663	17488	10.00000	11.16532	pg	12	15	
Heptachlor	A	13666	14983	10.00000	10.96332	pg	10	15	
Aldrin	A	14226	16071	10.00000	11.29713	pg	13	15	
Heptachlor epoxide	A	13081	14936	10.00000	11.41765	pg	14	15	
gamma-Chlordane	A	13204	15121	10.00000	11.45176	pg	15	15	
alpha-Chlordane	A	12820	14365	10.00000	11.20525	pg	12	15	
4,4'-DDE	A	12930	14911	20.00000	23.06320	pg	15	15	
Endosulfan I	A	11649	13059	10.00000	11.20992	pg	12	15	
Dieldrin	A	13038	14891	20.00000	22.84224	pg	14	15	
Endrin	A	10804	11958	20.00000	22.13752	pg	11	15	
4,4'-DDD	A	10503	13251	20.00000	25.23233	pg	26	15	c+ ***
Endosulfan II	A	11217	12818	20.00000	22.85379	pg	14	15	
4,4'-DDT	A	9508.9	9033.9	20.00000	19.00076	pg	-5	15	
Endrin aldehyde	A	8794.0	10123	20.00000	23.02195	pg	15	15	
Methoxychlor	A	3977.4	4298.1	100.0000	108.0630	pg	8	15	
Endosulfan sulfate	A	9824.1	11188	20.00000	22.77601	pg	14	15	
Endrin ketone	A	11596	13407	20.00000	23.12339	pg	16	15	c+ ***
TCMX	A	10733	12342	20.00000	22.99957	pg	15	15	
Decachlorobiphenyl	A	7863.9	8856.1	20.00000	22.52343	pg	13	15	
alpha-BHC	B	23859	24223	10.00000	10.15293	pg	2	15	
gamma-BHC	B	21675	21937	10.00000	10.12073	pg	1	15	
beta-BHC	B	9118.0	9774.7	10.00000	10.72021	pg	7	15	
delta-BHC	B	21560	21829	10.00000	10.12494	pg	1	15	
Heptachlor	B	16495	15900	10.00000	9.639588	pg	-4	15	
Aldrin	B	19980	20432	10.00000	10.22615	pg	2	15	
Heptachlor epoxide	B	18652	18947	10.00000	10.15820	pg	2	15	
gamma-Chlordane	B	18532	18977	10.00000	10.23970	pg	2	15	
alpha-Chlordane	B	17862	18618	10.00000	10.42303	pg	4	15	
4,4'-DDE	B	17597	19064	20.00000	21.66720	pg	8	15	
Endosulfan I	B	16719	17494	10.00000	10.46364	pg	5	15	
Dieldrin	B	17750	18621	20.00000	20.98130	pg	5	15	
Endrin	B	14505	14782	20.00000	20.38221	pg	2	15	
4,4'-DDD	B	13904	16075	20.00000	23.12377	pg	16	15	c+ ***
Endosulfan II	B	15094	16398	20.00000	21.72788	pg	9	15	
4,4'-DDT	B	12958	10891	20.00000	16.80880	pg	-16	15	c- ***
Endrin aldehyde	B	11468	12237	20.00000	21.34002	pg	7	15	
Methoxychlor	B	5189.1	5128.4	100.0000	98.83028	pg	-1	15	
Endosulfan sulfate	B	13019	13907	20.00000	21.36459	pg	7	15	
Endrin ketone	B	16430	16587	20.00000	20.19126	pg	1	15	
TCMX	B	14757	15676	20.00000	21.24612	pg	6	15	
Decachlorobiphenyl	B	10420	11953	20.00000	22.94224	pg	15	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				6	15	

+=high bias -=low bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2051,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 11/30/04 8:08:34 AM
Data Acquisition Time : 11/29/04 11:30:56 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\334a023p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.513	246849.15	22.9996	1.000	1	23.000
alpha-BHC	8.057	194514.41	11.2775	1.000	1	11.278
gamma-BHC	8.921	173761.14	11.1904	1.000	1	11.190
beta-BHC	9.196	76420.40	11.8189	1.000	1	11.819
delta-BHC	9.652	174884.86	11.1653	1.000	1	11.165
Heptachlor	10.186	149827.98	10.9633	1.000	1	10.963
Aldrin	10.965	160708.61	11.2971	1.000	1	11.297
Heptachlor epoxide	12.549	149357.65	11.4177	1.000	1	11.418
gamma-Chlordane	12.865	151207.00	11.4518	1.000	1	11.452
alpha-Chlordane	13.199	143652.30	11.2053	1.000	1	11.205
4,4'-DDE	13.453	298212.79	23.0632	1.000	1	23.063
Endosulfan I	13.526	130589.21	11.2099	1.000	1	11.210
Dieldrin	14.130	297816.00	22.8422	1.000	1	22.842
Endrin	14.689	239163.00	22.1375	1.000	1	22.138
4,4'-DDD	14.937	265024.50	25.2323	1.000	1	25.232
Endosulfan II	15.253	256352.52	22.8538	1.000	1	22.854
4,4'-DDT	15.619	180677.00	19.0008	1.000	1	19.001
Endrin aldehyde	16.301	202454.74	23.0220	1.000	1	23.022
Methoxychlor	16.863	429809.97	108.0630	1.000	1	108.063
Endosulfan sulfate	17.370	223753.00	22.7760	1.000	1	22.776
Endrin ketone	18.029	268146.60	23.1234	1.000	1	23.123
Decachlorobiphenyl	20.446	177121.13	22.5234	1.000	1	22.523
		4590303.96	470.6343			470.634

FA 11/30/04

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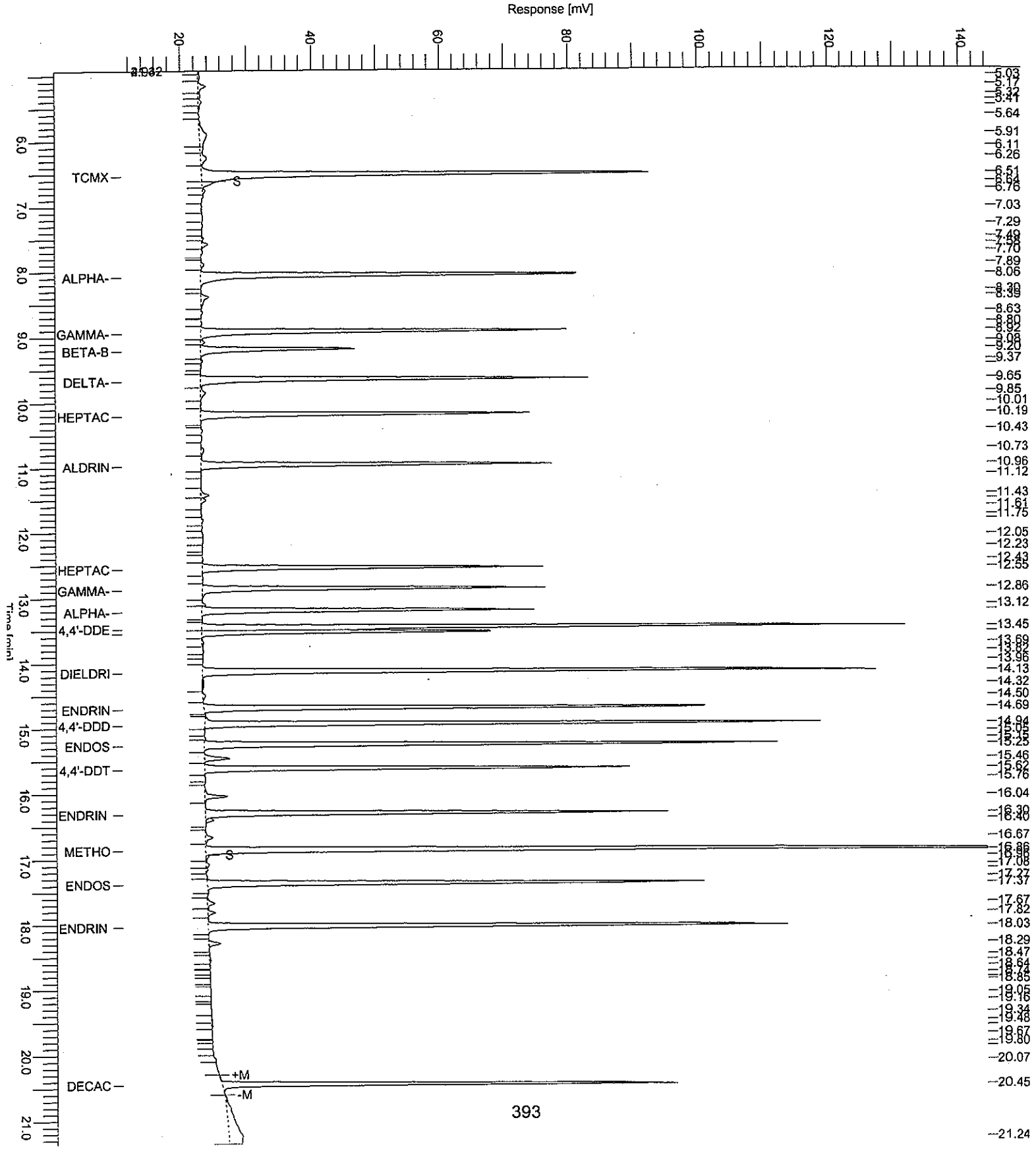
Report stored in ASCII file: G:\gc23\CHA\334a023p.TX0

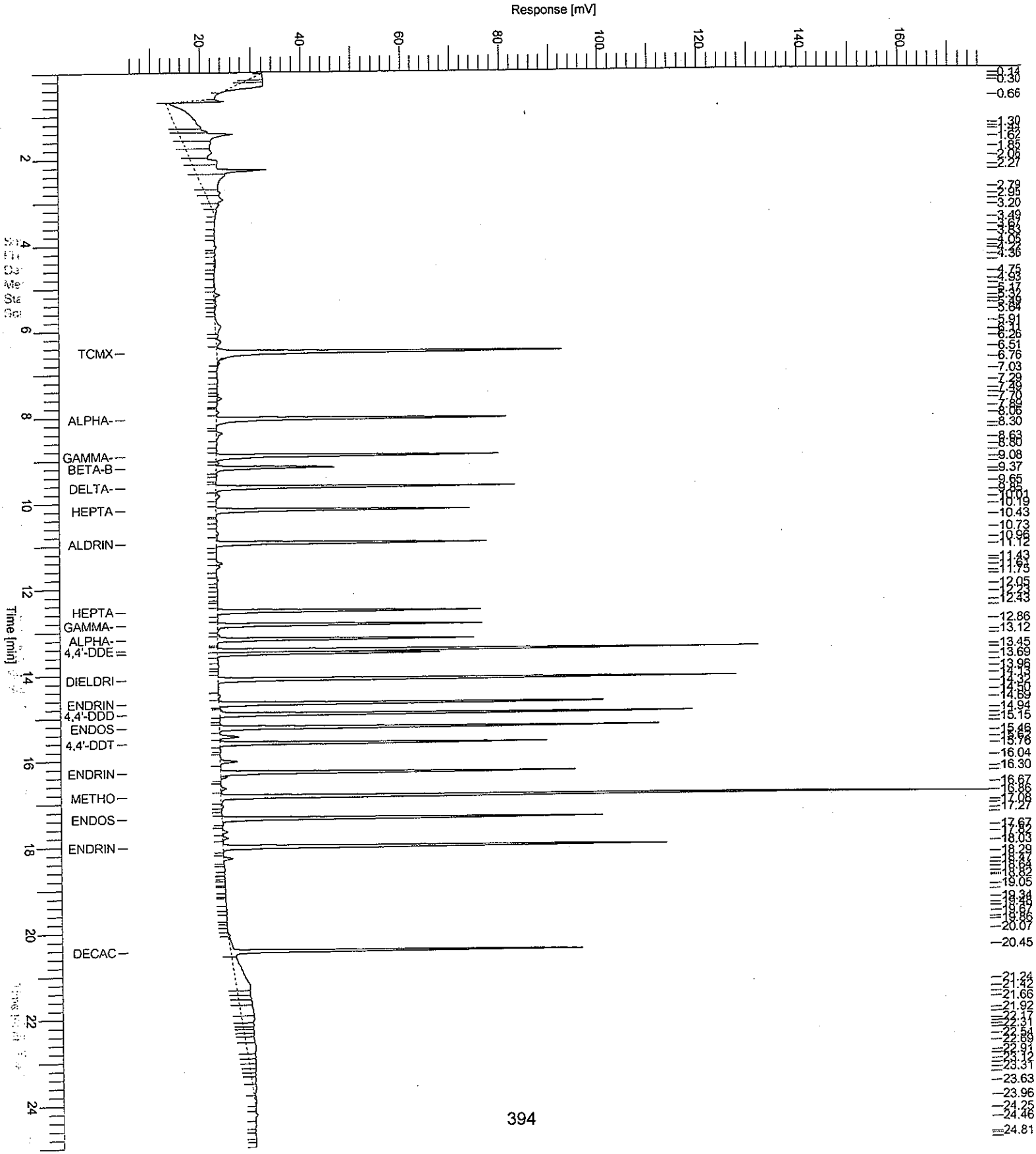
GC23 Rtx-CLPesticides

ample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
leName : G:\gc23\CHa\334a023.raw
ate : 11/30/04 8:08:39 AM
ethod :
Time of Injection: 11/29/04 11:30:56 PM
tart Time : 4.93 min End Time : 21.37 min Low Point : 10.99 mV High Point : 144.18 mV
ot Offset: 10.99 mV Plot Scale: 133.2 mV



GC23 Rtx-CLPesticides

Sample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
FileName : G:\gc23\CHa\334a023.raw
Date : 11/30/04 7:54:43 AM
Method : gc23ins Time of Injection: 11/29/04 11:30:56 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 4.87 mV High Point : 177.98 mV
Scale Factor: 1.0 Plot Offset: 4.87 mV Plot Scale: 173.1 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2051,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 23

Date : 11/30/04 8:06:06 AM
Data Acquisition Time : 11/29/04 11:30:56 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\334b023p.rst
Sequence File : G:\gc23\Files\334.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.853	313524.83	21.2461	1.000	1	21.246
alpha-BHC	8.487	242233.76	10.1529	1.000	1	10.153
gamma-BHC	9.432	219368.00	10.1207	1.000	1	10.121
beta-BHC	9.665	97747.00	10.7202	1.000	1	10.720
delta-BHC	10.423	218290.00	10.1249	1.000	1	10.125
Heptachlor	10.566	159000.50	9.6396	1.000	1	9.640
Aldrin	11.382	204315.00	10.2262	1.000	1	10.226
Heptachlor epoxide	12.851	189468.28	10.1582	1.000	1	10.158
gamma-Chlordane	13.321	189766.00	10.2397	1.000	1	10.240
alpha-Chlordane	13.697	186178.79	10.4230	1.000	1	10.423
Endosulfan I	13.813	174942.21	10.4636	1.000	1	10.464
4,4'-DDE	14.181	381274.50	21.6672	1.000	1	21.667
Dieldrin	14.496	372412.51	20.9813	1.000	1	20.981
Endrin	15.234	295643.30	20.3822	1.000	1	20.382
4,4'-DDD	15.600	321507.00	23.1238	1.000	1	23.124
Endosulfan II	15.756	327952.82	21.7279	1.000	1	21.728
4,4'-DDT	16.363	217815.00	16.8088	1.000	1	16.809
Endrin aldehyde	16.600	244733.40	21.3400	1.000	1	21.340
Endosulfan sulfate	17.272	278140.65	21.3646	1.000	1	21.365
Methoxychlor	18.088	512842.98	98.8303	1.000	1	98.830
Endrin ketone	18.552	331740.40	20.1913	1.000	1	20.191
Decachlorobiphenyl	21.234	239065.72	22.9422	1.000	1	22.942
		5717962.65	432.8748			432.875

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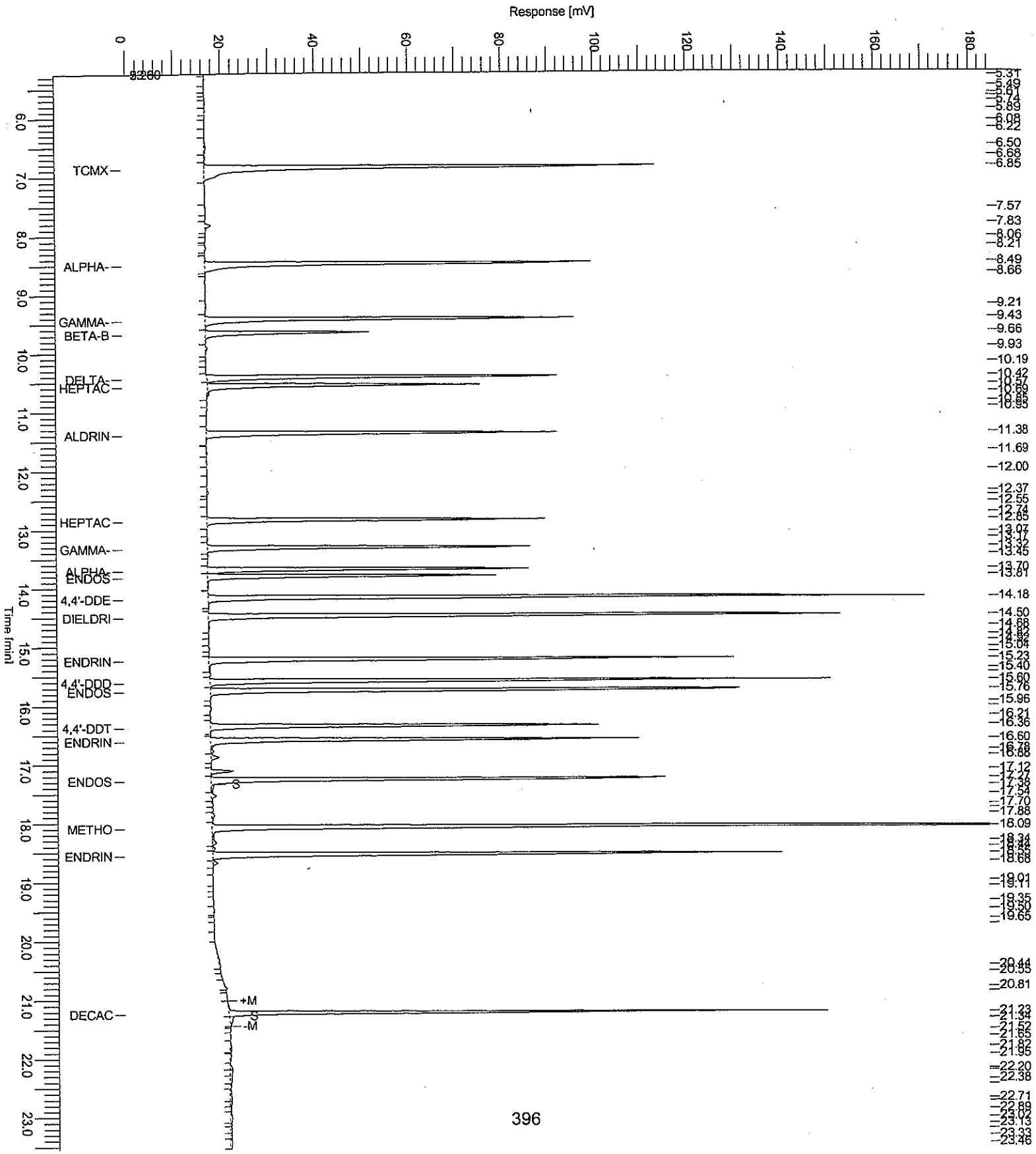
Report stored in ASCII file: G:\gc23\CHB\334b023p.TX0

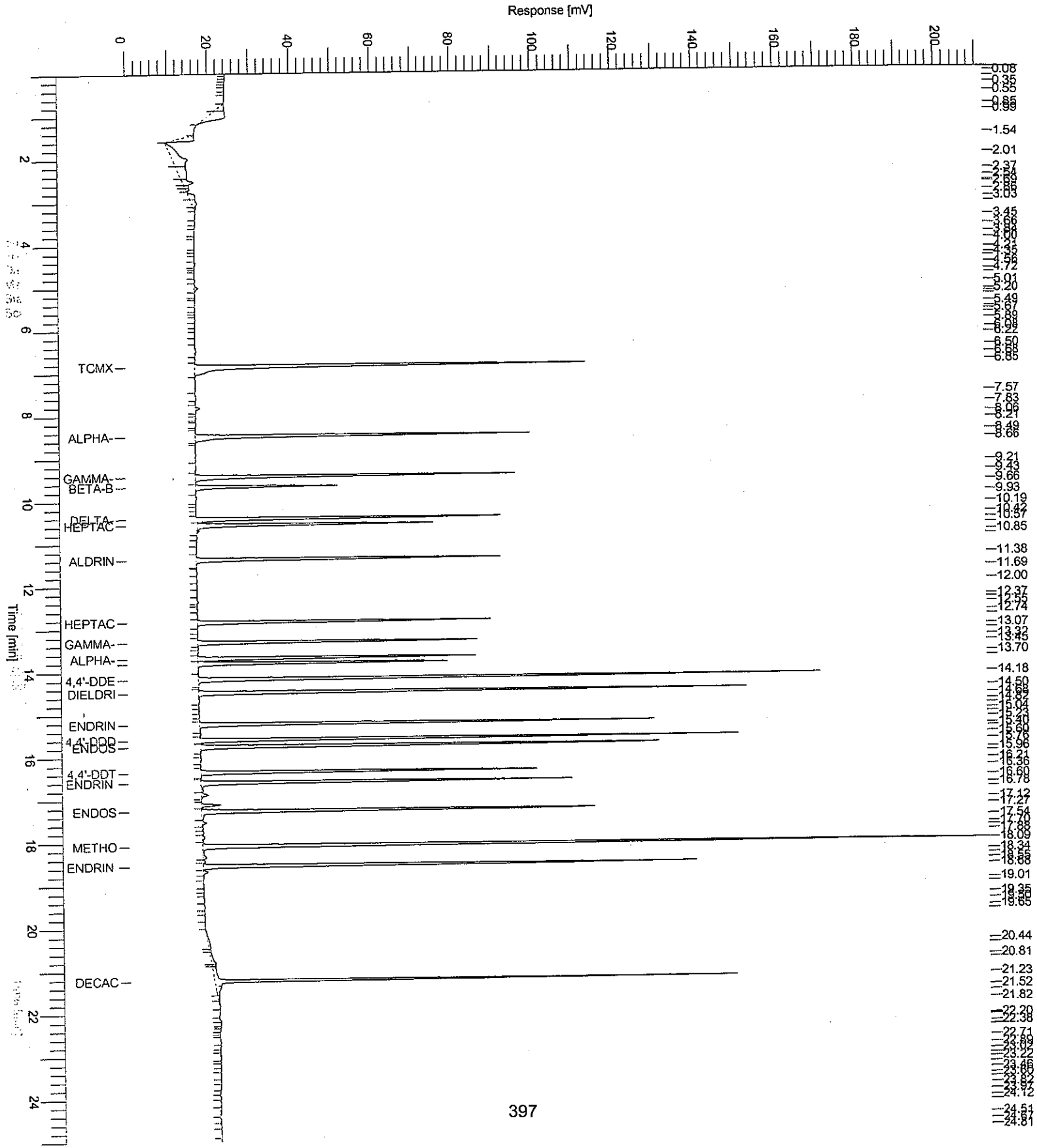
GC23 Rtx-CLPesticides2

ample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
ileName : G:\gc23\CHb\334b023.raw
ate : 11/30/04 8:06:29 AM
lethod :
Time of Injection: 11/29/04 11:30:56 PM
tart Time : 5.25 min End Time : 23.55 min Low Point : -1.03 mV High Point : 184.06 mV
lot Offset: -1.03 mV Plot Scale: 185.1 mV



GC23 Rtx-CLPesticides2

Sample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
FileName : G:\gc23\CHb\334b023
Date : 11/30/04 7:55:19 AM
Method : gc23ins Time of Injection: 11/29/04 11:30:56 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -0.50 mV High Point : 211.90 mV
Scale Factor: 1.0 Plot Offset: -0.50 mV Plot Scale: 212.4 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC21
Seqnum : 244485881005
Calnum : 244483653001
Standards: 04WS2052

Run Name : pest_4
Filename : 337_005
Caldate : 30-NOV-2004

IDF : 1.0
Injected : 02-DEC-2004 11:19
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12456	11281	20.00000	18.11431	pg	-9	15	
gamma-BHC	A	11262	10211	20.00000	18.13392	pg	-9	15	
beta-BHC	A	4919.8	4409.1	20.00000	17.92400	pg	-10	15	
delta-BHC	A	11837	10294	20.00000	17.39380	pg	-13	15	
Heptachlor	A	10217	9674.3	20.00000	18.93837	pg	-5	15	
Aldrin	A	10591	9781.9	20.00000	18.47196	pg	-8	15	
Heptachlor epoxide	A	9863.9	9074.3	20.00000	18.39891	pg	-8	15	
gamma-Chlordane	A	9950.5	9164.2	20.00000	18.41966	pg	-8	15	
alpha-Chlordane	A	9603.9	8776.9	20.00000	18.27779	pg	-9	15	
4,4'-DDE	A	9770.1	8760.9	40.00000	35.86818	pg	-10	15	
Endosulfan I	A	9022.3	8229.2	20.00000	18.24184	pg	-9	15	
Dieldrin	A	10119	9203.2	40.00000	36.38058	pg	-9	15	
Endrin	A	7752.7	7431.5	40.00000	38.34285	pg	-4	15	
4,4'-DDD	A	8093.0	7205.9	40.00000	35.61516	pg	-11	15	
Endosulfan II	A	8319.3	7262.3	40.00000	34.91791	pg	-13	15	
4,4'-DDT	A	6817.7	6140.0	40.00000	36.02375	pg	-10	15	
Endrin aldehyde	A	6738.4	5452.4	40.00000	32.36605	pg	-19	15	c- ***
Methoxychlor	A	2972.1	2771.6	200.0000	186.5066	pg	-7	15	
Endosulfan sulfate	A	7133.3	6234.0	40.00000	34.95723	pg	-13	15	
Endrin ketone	A	8009.9	6977.0	40.00000	34.84169	pg	-13	15	
TCMX	A	7701.8	6878.3	40.00000	35.72317	pg	-11	15	
Decachlorobiphenyl	A	5289.5	4937.6	40.00000	37.33924	pg	-7	15	
alpha-BHC	B	13089	11664	20.00000	17.82124	pg	-11	15	
gamma-BHC	B	11567	10343	20.00000	17.88365	pg	-11	15	
beta-BHC	B	4837.1	4350.8	20.00000	17.98940	pg	-10	15	
delta-BHC	B	12095	10458	20.00000	17.29279	pg	-14	15	
Heptachlor	B	9644.9	9025.3	20.00000	18.71508	pg	-6	15	
Aldrin	B	10644	9424.4	20.00000	17.70792	pg	-11	15	
Heptachlor epoxide	B	9843.3	8664.9	20.00000	17.60579	pg	-12	15	
gamma-Chlordane	B	10090	8760.4	20.00000	17.36385	pg	-13	15	
alpha-Chlordane	B	9595.1	8298.5	20.00000	17.29745	pg	-14	15	
4,4'-DDE	B	10002	8602.1	40.00000	34.40187	pg	-14	15	
Endosulfan I	B	9000.4	7780.0	20.00000	17.28812	pg	-14	15	
Dieldrin	B	9922.7	8631.1	40.00000	34.79334	pg	-13	15	
Endrin	B	7084.4	6771.7	40.00000	38.23415	pg	-4	15	
4,4'-DDD	B	8314.4	6932.6	40.00000	33.35247	pg	-17	15	c- ***
Endosulfan II	B	8579.2	7284.3	40.00000	33.96229	pg	-15	15	
4,4'-DDT	B	6785.1	6402.0	40.00000	37.74109	pg	-6	15	
Endrin aldehyde	B	6820.5	5528.2	40.00000	32.42141	pg	-19	15	c- ***
Methoxychlor	B	2832.1	2801.2	200.0000	197.8157	pg	-1	15	
Endosulfan sulfate	B	7518.5	6250.6	40.00000	33.25455	pg	-17	15	c- ***
Endrin ketone	B	9313.4	7649.7	40.00000	32.85469	pg	-18	15	c- ***
TCMX	B	8505.0	7605.0	40.00000	35.76724	pg	-11	15	
Decachlorobiphenyl	B	5014.2	5051.1	40.00000	40.29415	pg	1	15	
Average EPA 8081A	A		(count=22)				10	15	
Average EPA 8081A	B		(count=22)				11	15	

-=low bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2052,pest_4
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 12/2/04 11:46:40 AM
Data Acquisition Time : 12/2/04 11:19:49 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\337a005.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.551	275131.00	35.7232	1.000	1	35.72
alpha-BHC	10.202	225626.74	18.1143	1.000	1	18.11
gamma-BHC	11.111	204217.85	18.1339	1.000	1	18.13
beta-BHC	11.364	88181.72	17.9240	1.000	1	17.92
delta-BHC	11.856	205885.00	17.3938	1.000	1	17.39
Heptachlor	12.429	193485.00	18.9384	1.000	1	18.94
Aldrin	13.245	195637.64	18.4720	1.000	1	18.47
Heptachlor epoxide	14.856	181485.00	18.3989	1.000	1	18.40
gamma-Chlordane	15.173	183284.00	18.4197	1.000	1	18.42
alpha-Chlordane	15.516	175538.50	18.2778	1.000	1	18.28
4,4'-DDE	15.703	350434.50	35.8682	1.000	1	35.87
Endosulfan I	15.878	164584.00	18.2418	1.000	1	18.24
Dieldrin	16.485	368126.23	36.3806	1.000	1	36.38
Endrin	17.078	297261.00	38.3429	1.000	1	38.34
4,4'-DDD	17.220	288234.00	35.6152	1.000	1	35.62
Endosulfan II	17.646	290492.50	34.9179	1.000	1	34.92
4,4'-DDT	17.917	245598.00	36.0238	1.000	1	36.02
Endrin aldehyde	18.701	218096.97	32.3661	1.000	1	32.37
Methoxychlor	19.104	554323.99	186.5066	1.000	1	186.51
Endosulfan sulfate	19.795	249359.35	34.9572	1.000	1	34.96
Endrin ketone	20.437	279079.26	34.8417	1.000	1	34.84
Decachlorobiphenyl	22.103	197505.02	37.3392	1.000	1	37.34
		5431567.27	761.1970			761.20

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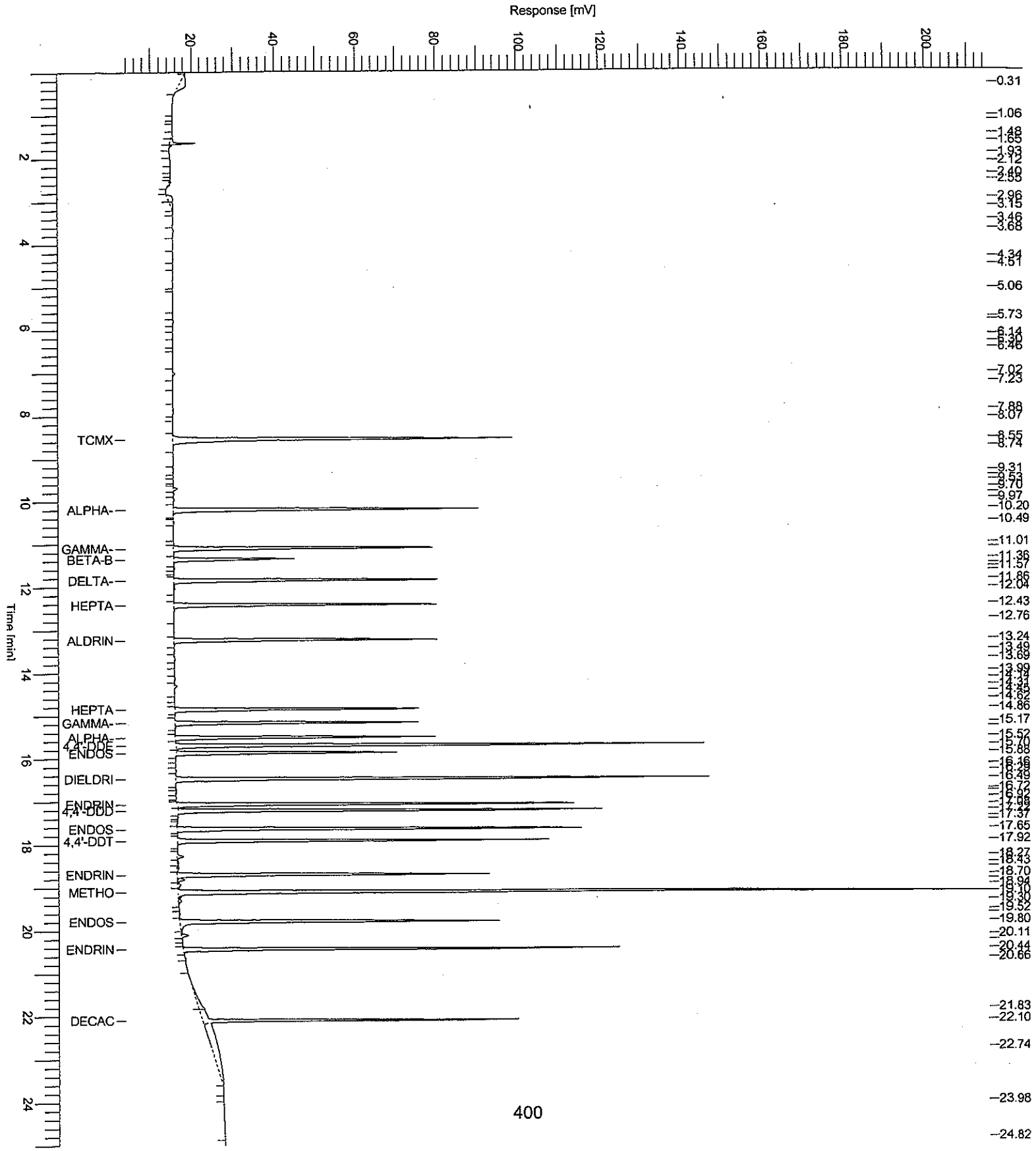
Report stored in ASCII file: G:\gc21\CHA\337a005.TX0

GC21 Rtx-CLPesticides

ample Name : ccv,04ws2052,pest_4 Sample #: 20/40 ug/l Page 1 of 1
ileName : G:\gc21\CHa\337a005.raw
ate : 12/2/04 11:46:44 AM
ethod : gc21ins Time of Injection: 12/2/04 11:19:49 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.74 mV High Point : 215.07 mV
cale Factor: 1.0 Plot Offset: 3.74 mV Plot Scale: 211.3 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2052,pest_4
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 5

Date : 12/2/04 11:46:31 AM
Data Acquisition Time : 12/2/04 11:19:49 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\337b005.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL B METH. 8081

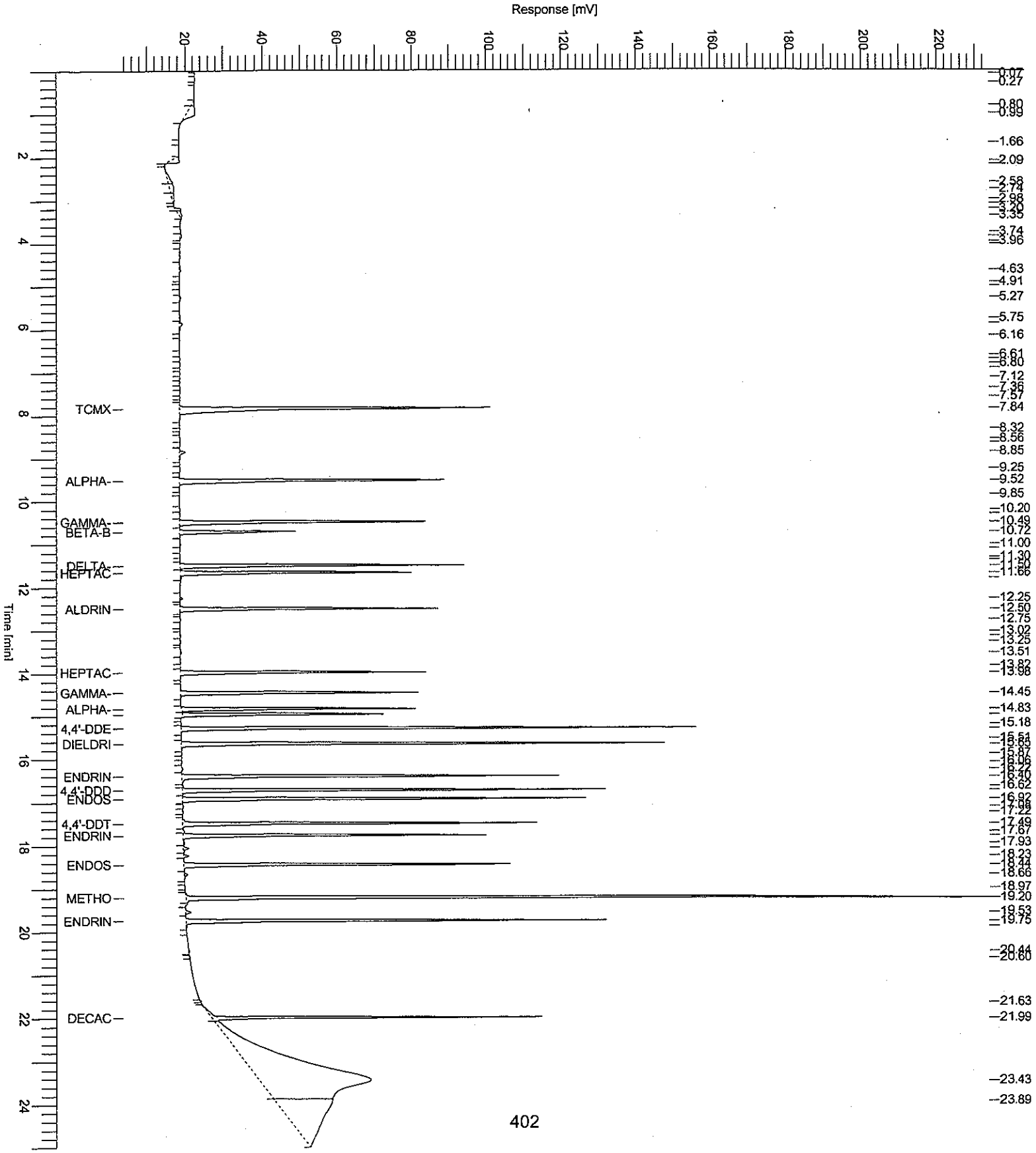
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.839	304199.50	35.7672	1.000	1	35.77
alpha-BHC	9.524	233271.00	17.8212	1.000	1	17.82
gamma-BHC	10.490	206863.00	17.8837	1.000	1	17.88
beta-BHC	10.715	87016.90	17.9894	1.000	1	17.99
delta-BHC	11.498	209157.00	17.2928	1.000	1	17.29
Heptachlor	11.663	180506.00	18.7151	1.000	1	18.72
Aldrin	12.500	188488.50	17.7079	1.000	1	17.71
Heptachlor epoxide	13.981	173298.85	17.6058	1.000	1	17.61
gamma-Chlordane	14.454	175207.00	17.3639	1.000	1	17.36
alpha-Chlordane	14.831	165970.00	17.2975	1.000	1	17.30
Endosulfan I	14.961	155600.50	17.2881	1.000	1	17.29
4,4'-DDE	15.286	344083.63	34.4019	1.000	1	34.40
Dieldrin	15.648	345245.22	34.7933	1.000	1	34.79
Endrin	16.399	270866.04	38.2341	1.000	1	38.23
4,4'-DDD	16.717	277305.60	33.3525	1.000	1	33.35
Endosulfan II	16.919	291370.00	33.9623	1.000	1	33.96
4,4'-DDT	17.487	256078.91	37.7411	1.000	1	37.74
Endrin aldehyde	17.764	221129.03	32.4214	1.000	1	32.42
Endosulfan sulfate	18.438	250025.54	33.2546	1.000	1	33.25
Methoxychlor	19.204	560235.00	197.8157	1.000	1	197.82
Endrin ketone	19.748	305988.50	32.8547	1.000	1	32.85
Decachlorobiphenyl	21.987	202043.73	40.2942	1.000	1	40.29
		5403949.44	761.8582			761.86

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHB\337b005.TX0

GC21 Rtx-CLPesticides2

ample Name : ccv,04ws2052,pest_4 Sample #: 20/40 ug/l Page 1 of 1
ileName : G:\gc21\CHb\337b005
ate : 12/2/04 11:46:35 AM
lethod : gc21ins Time of Injection: 12/2/04 11:19:49 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : 3.51 mV High Point : 233.77 mV
cale Factor: 1.0 Plot Offset: 3.51 mV Plot Scale: 230.3 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC21
Seqnum : 244485881019
Calnum : 244483653001
Standards: 04WS2051

Run Name : pest_3
Filename : 337_019
Caldate : 30-NOV-2004

IDF : 1.0
Injected : 02-DEC-2004 18:34
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12456	10902	10.00000	8.752445	pg	-12	15	
gamma-BHC	A	11262	9935.3	10.00000	8.822198	pg	-12	15	
beta-BHC	A	4919.8	4278.0	10.00000	8.695451	pg	-13	15	
delta-BHC	A	11837	9984.9	10.00000	8.435569	pg	-16	15	c- ***
Heptachlor	A	10217	9124.2	10.00000	8.930792	pg	-11	15	
Aldrin	A	10591	9436.0	10.00000	8.909401	pg	-11	15	
Heptachlor epoxide	A	9863.9	8882.2	10.00000	9.004780	pg	-10	15	
gamma-Chlordane	A	9950.5	8844.3	10.00000	8.888288	pg	-11	15	
alpha-Chlordane	A	9603.9	8563.4	10.00000	8.916510	pg	-11	15	
4,4'-DDE	A	9770.1	8359.8	20.00000	17.11304	pg	-14	15	
Endosulfan I	A	9022.3	8292.9	10.00000	9.191569	pg	-8	15	
Dieldrin	A	10119	8827.9	20.00000	17.44857	pg	-13	15	
Endrin	A	7752.7	6685.4	20.00000	17.24671	pg	-14	15	
4,4'-DDD	A	8093.0	7205.5	20.00000	17.80668	pg	-11	15	
Endosulfan II	A	8319.3	7222.9	20.00000	17.36421	pg	-13	15	
4,4'-DDT	A	6817.7	5505.5	20.00000	16.15068	pg	-19	15	c- ***
Endrin aldehyde	A	6738.4	5749.4	20.00000	17.06433	pg	-15	15	
Methoxychlor	A	2972.1	2486.6	100.0000	83.66210	pg	-16	15	c- ***
Endosulfan sulfate	A	7133.3	6192.4	20.00000	17.36209	pg	-13	15	
Endrin ketone	A	8009.9	7389.3	20.00000	18.45040	pg	-8	15	
TCMX	A	7701.8	6740.9	20.00000	17.50491	pg	-12	15	
Decachlorobiphenyl	A	5289.5	6854.0	20.00000	25.91550	pg	30	15	c+
alpha-BHC	B	13089	9833.7	10.00000	7.512666	pg	-25	15	c- ***
gamma-BHC	B	11567	8831.2	10.00000	7.634732	pg	-24	15	c- ***
beta-BHC	B	4837.1	3847.9	10.00000	7.954998	pg	-20	15	c- ***
delta-BHC	B	12095	9080.3	10.00000	7.507455	pg	-25	15	c- ***
Heptachlor	B	9644.9	7629.4	10.00000	7.910256	pg	-21	15	c- ***
Aldrin	B	10644	8407.9	10.00000	7.898965	pg	-21	15	c- ***
Heptachlor epoxide	B	9843.3	7842.6	10.00000	7.967408	pg	-20	15	c- ***
gamma-Chlordane	B	10090	7990.5	10.00000	7.918968	pg	-21	15	c- ***
alpha-Chlordane	B	9595.1	7610.1	10.00000	7.931274	pg	-21	15	c- ***
4,4'-DDE	B	10002	7525.8	20.00000	15.04866	pg	-25	15	c- ***
Endosulfan I	B	9000.4	7180.5	10.00000	7.977952	pg	-20	15	c- ***
Dieldrin	B	9922.7	7713.7	20.00000	15.54749	pg	-22	15	c- ***
Endrin	B	7084.4	5460.1	20.00000	15.41443	pg	-23	15	c- ***
4,4'-DDD	B	8314.4	6441.3	20.00000	15.49421	pg	-23	15	c- ***
Endosulfan II	B	8579.2	6586.3	20.00000	15.35396	pg	-23	15	c- ***
4,4'-DDT	B	6785.1	5100.6	20.00000	15.03469	pg	-25	15	c- ***
Endrin aldehyde	B	6820.5	5211.3	20.00000	15.28147	pg	-24	15	c- ***
Methoxychlor	B	2832.1	2218.1	100.0000	78.31998	pg	-22	15	c- ***
Endosulfan sulfate	B	7518.5	5697.6	20.00000	15.15614	pg	-24	15	c- ***
Endrin ketone	B	9313.4	7120.5	20.00000	15.29081	pg	-24	15	c- ***
TCMX	B	8505.0	6379.0	20.00000	15.00057	pg	-25	15	c-
Decachlorobiphenyl	B	5014.2	4943.1	20.00000	19.71613	pg	-1	15	
Average EPA 8081A	A		(count=22)				13	15	
Average EPA 8081A	B		(count=22)				22	15	ac

+=high bias -=low bias ac=average CCV drift out c=CCV

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2051,pest_3
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 12/3/04 8:08:54 AM
Data Acquisition Time : 12/2/04 6:34:36 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHB\337b019.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	7.846	127579.50	15.0006	1.000	1	15.00
alpha-BHC	9.531	98337.00	7.5127	1.000	1	7.51
gamma-BHC	10.497	88312.14	7.6347	1.000	1	7.63
beta-BHC	10.717	38479.29	7.9550	1.000	1	7.95
delta-BHC	11.500	90803.00	7.5075	1.000	1	7.51
Heptachlor	11.665	76294.00	7.9103	1.000	1	7.91
Aldrin	12.502	84079.00	7.8990	1.000	1	7.90
Heptachlor epoxide	13.983	78425.50	7.9674	1.000	1	7.97
gamma-Chlordane	14.461	79905.00	7.9190	1.000	1	7.92
alpha-Chlordane	14.833	76101.00	7.9313	1.000	1	7.93
Endosulfan I	14.964	71805.00	7.9780	1.000	1	7.98
4,4'-DDE	15.288	150515.00	15.0487	1.000	1	15.05
Dieldrin	15.650	154273.67	15.5475	1.000	1	15.55
Endrin	16.401	109202.00	15.4144	1.000	1	15.41
4,4'-DDD	16.719	128825.00	15.4942	1.000	1	15.49
Endosulfan II	16.922	131725.00	15.3540	1.000	1	15.35
4,4'-DDT	17.495	102012.58	15.0347	1.000	1	15.03
Endrin aldehyde	17.766	104226.71	15.2815	1.000	1	15.28
Endosulfan sulfate	18.446	113952.00	15.1561	1.000	1	15.16
Methoxychlor	19.211	221810.48	78.3200	1.000	1	78.32
Endrin ketone	19.750	142409.27	15.2908	1.000	1	15.29
Decachlorobiphenyl	21.996	98861.00	19.7161	1.000	1	19.72
		2367933.13	328.8732			328.87

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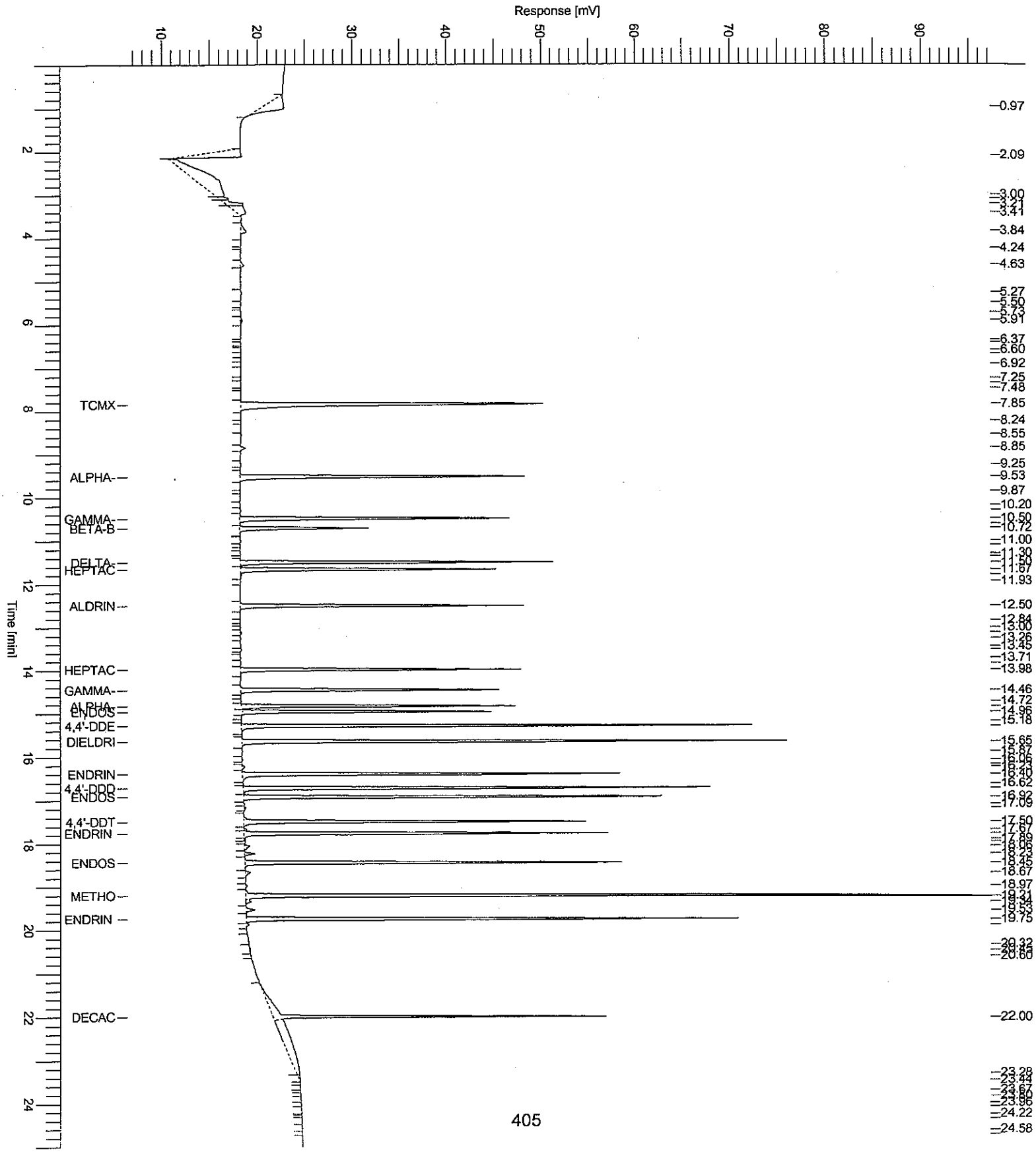
Report stored in ASCII file: G:\gc21\CHB\337b019.TX0

GC21 Rtx-CLPesticides2

Sample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
FileName : G:\gc21\CHb\337b019
Date : 12/3/04 8:08:58 AM
Method : gc21ins Time of Injection: 12/2/04 6:34:36 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 6.40 mV High Point : 97.30 mV
Scale Factor: 1.0 Plot Offset: 6.40 mV Plot Scale: 90.9 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2051,pest_3
Instrument Name : gc21
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 19

Date : 12/3/04 8:09:36 AM
Data Acquisition Time : 12/2/04 6:34:36 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc21\CHA\337a019.rst
Sequence File : G:\gc21\files\337.seq

PEST GC21 CHANNEL A METH. 8081

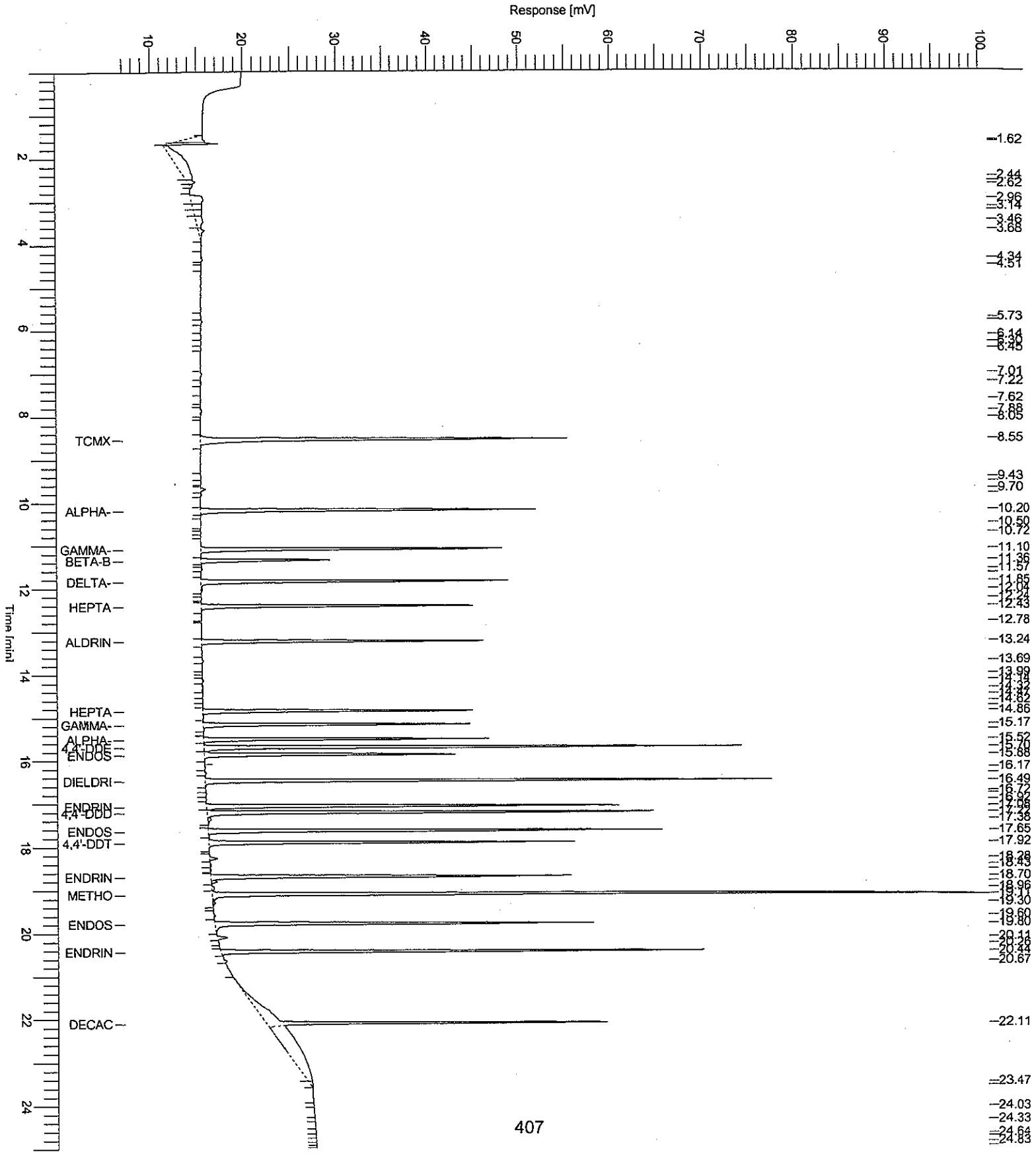
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	8.547	134818.50	17.5049	1.000	1	17.50
alpha-BHC	10.199	109018.00	8.7524	1.000	1	8.75
gamma-BHC	11.104	99352.50	8.8222	1.000	1	8.82
beta-BHC	11.362	42779.50	8.6955	1.000	1	8.70
delta-BHC	11.854	99849.18	8.4356	1.000	1	8.44
Heptachlor	12.427	91242.00	8.9308	1.000	1	8.93
Aldrin	13.240	94360.00	8.9094	1.000	1	8.91
Heptachlor epoxide	14.856	88822.26	9.0048	1.000	1	9.00
gamma-Chlordane	15.173	88442.50	8.8883	1.000	1	8.89
alpha-Chlordane	15.516	85633.50	8.9165	1.000	1	8.92
4,4'-DDE	15.704	167195.58	17.1130	1.000	1	17.11
Endosulfan I	15.879	82929.42	9.1916	1.000	1	9.19
Dieldrin	16.486	176557.86	17.4486	1.000	1	17.45
Endrin	17.079	133708.77	17.2467	1.000	1	17.25
4,4'-DDD	17.222	144109.73	17.8067	1.000	1	17.81
Endosulfan II	17.647	144458.00	17.3642	1.000	1	17.36
4,4'-DDT	17.918	110110.00	16.1507	1.000	1	16.15
Endrin aldehyde	18.703	114987.12	17.0643	1.000	1	17.06
Methoxychlor	19.112	248655.53	83.6621	1.000	1	83.66
Endosulfan sulfate	19.798	123848.50	17.3621	1.000	1	17.36
Endrin ketone	20.439	147786.28	18.4504	1.000	1	18.45
Decachlorobiphenyl	22.112	137079.40	25.9155	1.000	1	25.92
		2665744.13	371.6362			371.64

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc21\CHA\337a019.TX0

GC21 Rtx-CLPesticides

ample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l
ileName : G:\gc21\CHa\337a019.raw
ate : 12/3/04 8:09:40 AM Time of Injection: 12/2/04 6:34:36 PM
ethod : gc21ins
tart Time : 0.00 min End Time : 25.00 min Low Point : 6.98 mV High Point : 100.96 mV
cale Factor: 1.0 Plot Offset: 6.98 mV Plot Scale: 94.0 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23
Seqnum : 804485916037
Calnum : 804457447001
Standards: 04WS2052

Run Name : ccv
Filename : 337_037
Caldate : 12-NOV-2004

IDF : 1.0
Injected : 03-DEC-2004 06:56
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	16252	20.00000	18.84464	pg	-6	15	
gamma-BHC	A	15528	14608	20.00000	18.81539	pg	-6	15	
beta-BHC	A	6465.9	6183.5	20.00000	19.12646	pg	-4	15	
delta-BHC	A	15663	14624	20.00000	18.67259	pg	-7	15	
Heptachlor	A	13666	13237	20.00000	19.37108	pg	-3	15	
Aldrin	A	14226	13275	20.00000	18.66317	pg	-7	15	
Heptachlor epoxide	A	13081	12507	20.00000	19.12258	pg	-4	15	
gamma-Chlordane	A	13204	12519	20.00000	18.96253	pg	-5	15	
alpha-Chlordane	A	12820	11984	20.00000	18.69523	pg	-7	15	
4,4'-DDE	A	12930	12863	40.00000	39.79293	pg	-1	15	
Endosulfan I	A	11649	10486	20.00000	18.00305	pg	-10	15	
Dieldrin	A	13038	12848	40.00000	39.41808	pg	-1	15	
Endrin	A	10804	11291	40.00000	41.80513	pg	5	15	
4,4'-DDD	A	10503	10308	40.00000	39.25552	pg	-2	15	
Endosulfan II	A	11217	10827	40.00000	38.60861	pg	-3	15	
4,4'-DDT	A	9508.9	9809.2	40.00000	41.26312	pg	3	15	
Endrin aldehyde	A	8794.0	7967.3	40.00000	36.23971	pg	-9	15	
Methoxychlor	A	3977.4	5073.1	200.0000	255.0950	pg	**28**	15	c+ ***
Endosulfan sulfate	A	9824.1	9689.9	40.00000	39.45366	pg	-1	15	
Endrin ketone	A	11596	11956	40.00000	41.23956	pg	3	15	
TCMX	A	10733	10164	40.00000	37.88109	pg	-5	15	
Decachlorobiphenyl	A	7863.9	7690.9	40.00000	39.12048	pg	-2	15	
alpha-BHC	B	23859	24060	20.00000	20.16891	pg	1	15	
gamma-BHC	B	21675	21657	20.00000	19.98312	pg	0	15	
beta-BHC	B	9118.0	9041.8	20.00000	19.83285	pg	-1	15	
delta-BHC	B	21560	21891	20.00000	20.30722	pg	2	15	
Heptachlor	B	16495	16581	20.00000	20.10471	pg	1	15	
Aldrin	B	19980	19971	20.00000	19.99094	pg	0	15	
Heptachlor epoxide	B	18652	18511	20.00000	19.84955	pg	-1	15	
gamma-Chlordane	B	18532	18780	20.00000	20.26689	pg	1	15	
alpha-Chlordane	B	17862	18022	20.00000	20.17842	pg	1	15	
4,4'-DDE	B	17597	20303	40.00000	46.15099	pg	15	15	
Endosulfan I	B	16719	16893	20.00000	20.20789	pg	1	15	
Dieldrin	B	17750	20147	40.00000	45.40205	pg	14	15	
Endrin	B	14505	16328	40.00000	45.02644	pg	13	15	
4,4'-DDD	B	13904	16165	40.00000	46.50489	pg	**16**	15	c+ ***
Endosulfan II	B	15094	16964	40.00000	44.95695	pg	12	15	
4,4'-DDT	B	12958	13908	40.00000	42.93217	pg	7	15	
Endrin aldehyde	B	11468	11930	40.00000	41.61057	pg	4	15	
Methoxychlor	B	5189.1	6329.7	200.0000	243.9606	pg	**22**	15	c+ ***
Endosulfan sulfate	B	13019	14324	40.00000	44.01051	pg	10	15	
Endrin ketone	B	16430	17869	40.00000	43.50301	pg	9	15	
TCMX	B	14757	15267	40.00000	41.38200	pg	3	15	
Decachlorobiphenyl	B	10420	12842	40.00000	49.29671	pg	**23**	15	c+
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias c=CCV
Page 1 of 1

Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2052,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 37

Date : 12/3/04 8:12:03 AM
Data Acquisition Time : 12/3/04 6:56:28 AM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\337a037p.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL A METH. 8081

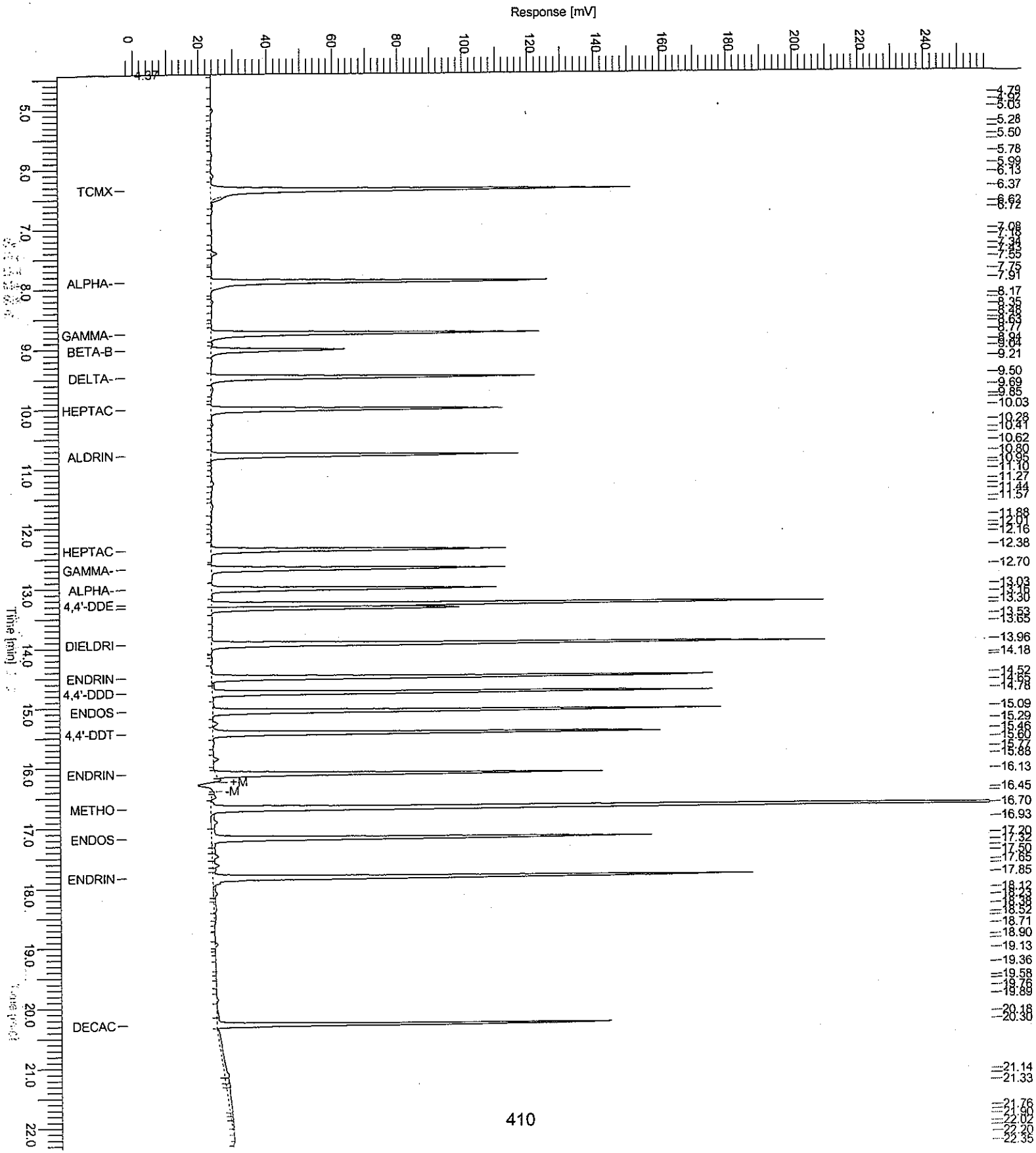
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.366	406569.09	37.8811	1.000	1	37.881
alpha-BHC	7.905	325031.80	18.8446	1.000	1	18.845
gamma-BHC	8.768	292160.39	18.8154	1.000	1	18.815
beta-BHC	9.038	123670.52	19.1265	1.000	1	19.126
delta-BHC	9.497	292472.87	18.6726	1.000	1	18.673
Heptachlor	10.031	264730.77	19.3711	1.000	1	19.371
Aldrin	10.801	265495.00	18.6632	1.000	1	18.663
Heptachlor epoxide	12.385	250148.06	19.1226	1.000	1	19.123
gamma-Chlordane	12.700	250378.00	18.9625	1.000	1	18.963
alpha-Chlordane	13.034	239674.50	18.6952	1.000	1	18.695
4,4'-DDE	13.298	514532.29	39.7929	1.000	1	39.793
Endosulfan I	13.358	209725.32	18.0030	1.000	1	18.003
Dieldrin	13.964	513931.00	39.4181	1.000	1	39.418
Endrin	14.522	451642.27	41.8051	1.000	1	41.805
4,4'-DDD	14.780	412315.23	39.2555	1.000	1	39.256
Endosulfan II	15.086	433075.50	38.6086	1.000	1	38.609
4,4'-DDT	15.462	392368.44	41.2631	1.000	1	41.263
Endrin aldehyde	16.134	318691.50	36.2397	1.000	1	36.240
Methoxychlor	16.702	1014615.73	255.0950	1.000	1	255.095
Endosulfan sulfate	17.201	387595.30	39.4537	1.000	1	39.454
Endrin ketone	17.853	478227.77	41.2396	1.000	1	41.240
Decachlorobiphenyl	20.305	307637.96	39.1205	1.000	1	39.120
		8144689.31	877.4496			877.450

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHA\337a037p.TX0

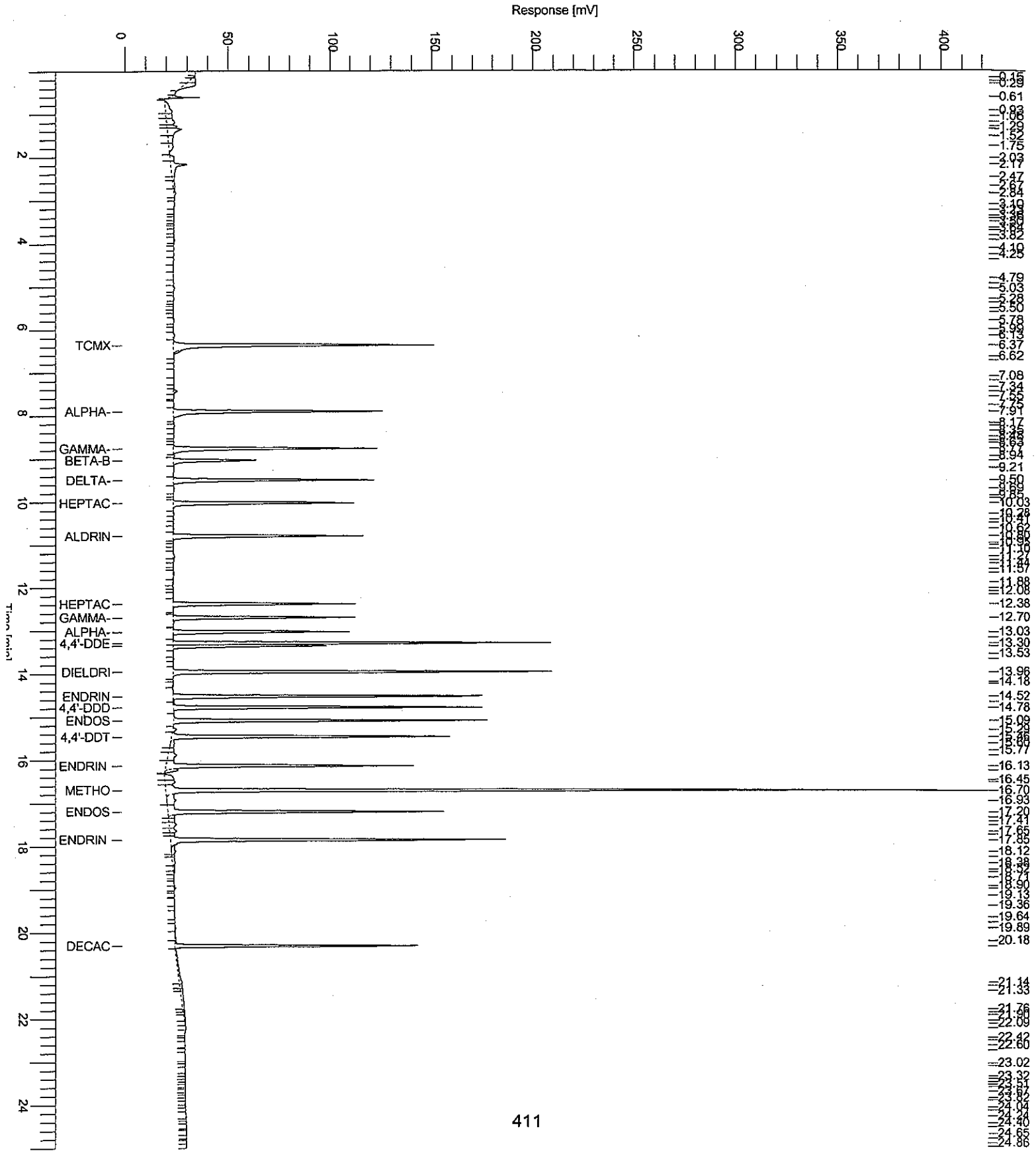
GC23 Rtx-CLPesticides

Sample Name : x,ccv,04ws2052,pest_4 Sample #: 20/40 ug/l Page 1 of 1
FileName : G:\gc23\CHa\337a037.raw
Date : 12/3/04 8:12:10 AM
Method :
Time of Injection: 12/3/04 6:56:28 AM
Start Time : 4.43 min End Time : 22.35 min Low Point : -2.32 mV High Point : 258.82 mV
Plot Offset: -2.32 mV Plot Scale: 261.1 mV



GC23 Rtx-CLPesticides

ample Name : x,ccv,04ws2052,pest_4 Sample #: 20/40 ug/l Page 1 of 1
leName : G:\gc23\CHa\337a037.raw
ate : 12/3/04 8:07:02 AM
ethod : gc23ins Time of Injection: 12/3/04 6:56:28 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -1.26 mV High Point : 423.50 mV
cale Factor: 1.0 Plot Offset: -1.26 mV Plot Scale: 424.8 mV



Software Version : 6.1.2.0.1:D19
Sample Name : x,ccv,04ws2052,pest_4
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 37

Date : 12/3/04 8:07:23 AM
Data Acquisition Time : 12/3/04 6:56:28 AM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\337b037.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL B METH. 8081

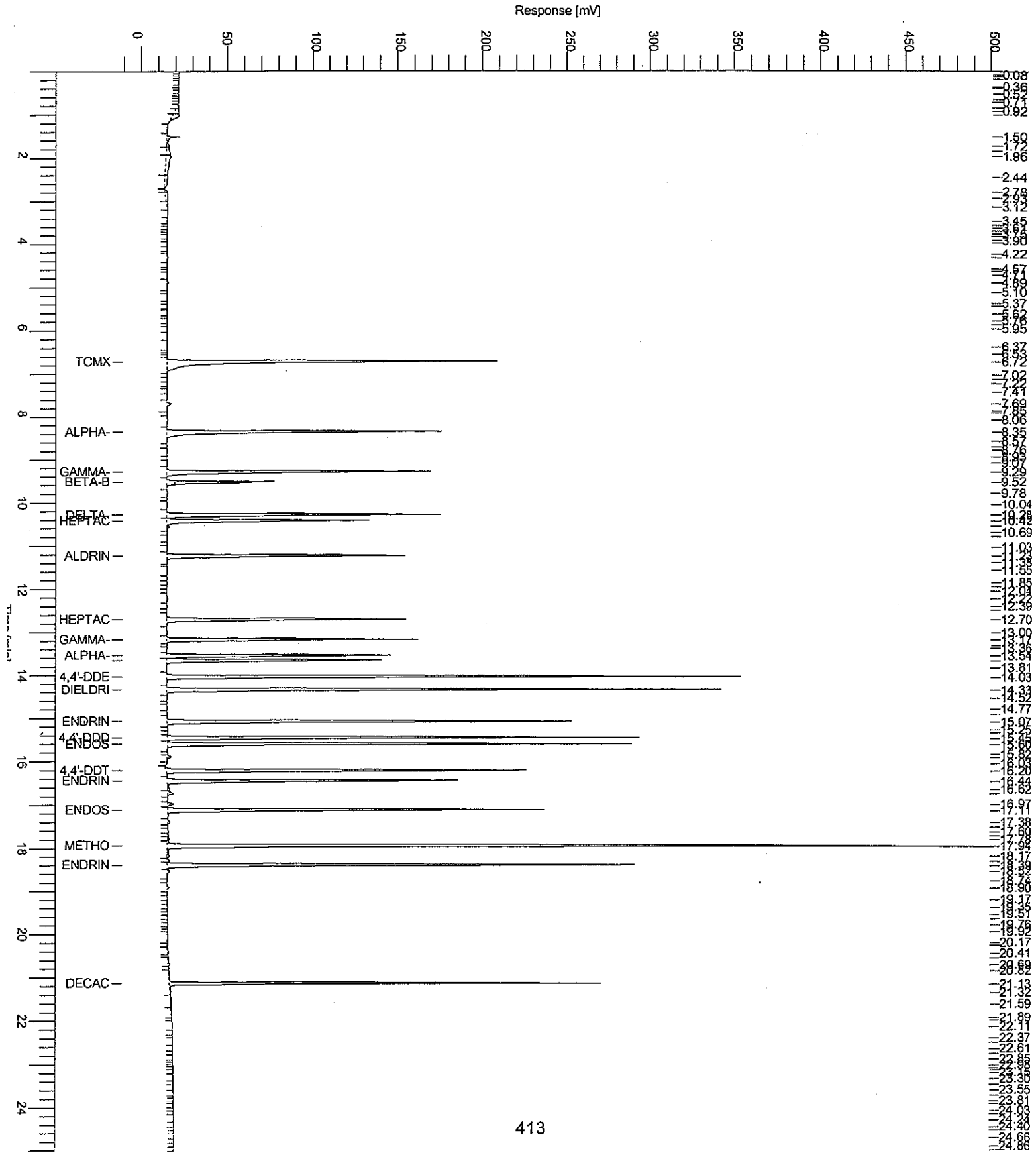
Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.718	610666.00	41.3820	1.000	1	41.382
alpha-BHC	8.348	481199.98	20.1689	1.000	1	20.169
gamma-BHC	9.286	433136.70	19.9831	1.000	1	19.983
beta-BHC	9.519	180836.20	19.8328	1.000	1	19.833
delta-BHC	10.281	437816.09	20.3072	1.000	1	20.307
Heptachlor	10.417	331617.79	20.1047	1.000	1	20.105
Aldrin	11.230	399412.00	19.9909	1.000	1	19.991
Heptachlor epoxide	12.699	370228.92	19.8495	1.000	1	19.850
gamma-Chlordane	13.167	375593.77	20.2669	1.000	1	20.267
alpha-Chlordane	13.537	360432.09	20.1784	1.000	1	20.178
Endosulfan I	13.652	337856.91	20.2079	1.000	1	20.208
4,4'-DDE	14.031	812112.00	46.1510	1.000	1	46.151
Dieldrin	14.335	805874.26	45.4020	1.000	1	45.402
Endrin	15.071	653107.08	45.0264	1.000	1	45.026
4,4'-DDD	15.448	646592.00	46.5049	1.000	1	46.505
Endosulfan II	15.599	678564.00	44.9569	1.000	1	44.957
4,4'-DDT	16.204	556332.00	42.9322	1.000	1	42.932
Endrin aldehyde	16.438	477201.77	41.6106	1.000	1	41.611
Endosulfan sulfate	17.114	572962.51	44.0105	1.000	1	44.011
Methoxychlor	17.935	1265942.96	243.9606	1.000	1	243.961
Endrin ketone	18.386	714750.26	43.5030	1.000	1	43.503
Decachlorobiphenyl	21.130	513687.99	49.2967	1.000	1	49.297
		12015923.27	935.6274			935.627

----------CURTIS & TOMPKINS LTD----------

Report stored in ASCII file: G:\gc23\CHB\337b037.TX0

GC23 Rtx-CLPesticides2

ample Name : x,ccv,04ws2052,pest_4 Sample #: 20/40 ug/l Page 1 of 1
ileName : G:\gc23\CHb\337b037
ate : 12/3/04 8:07:28 AM
lethod : gc23ins Time of Injection: 12/3/04 6:56:28 AM
tart Time : 0.00 min End Time : 25.00 min Low Point : -11.18 mV High Point : 500.69 mV
cale Factor: 1.0 Plot Offset: -11.18 mV Plot Scale: 511.9 mV



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804485916043 Filename : 337_043 Injected : 03-DEC-2004 18:23
Calnum : 804457447001 Caldate : 12-NOV-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17248	15379	10.00000	8.916239	pg	-11	15	
gamma-BHC	A	15528	13930	10.00000	8.970832	pg	-10	15	
beta-BHC	A	6465.9	6081.0	10.00000	9.404639	pg	-6	15	
delta-BHC	A	15663	13904	10.00000	8.876897	pg	-11	15	
Heptachlor	A	13666	12506	10.00000	9.151203	pg	-8	15	
Aldrin	A	14226	12863	10.00000	9.042213	pg	-10	15	
Heptachlor epoxide	A	13081	12081	10.00000	9.235326	pg	-8	15	
gamma-Chlordane	A	13204	12024	10.00000	9.106678	pg	-9	15	
alpha-Chlordane	A	12820	11714	10.00000	9.137535	pg	-9	15	
4,4'-DDE	A	12930	11907	20.00000	18.41782	pg	-8	15	
Endosulfan I	A	11649	10249	10.00000	8.798073	pg	-12	15	
Dieldrin	A	13038	11817	20.00000	18.12643	pg	-9	15	
Endrin	A	10804	10017	20.00000	18.54451	pg	-7	15	
4,4'-DDD	A	10503	9766.1	20.00000	18.59621	pg	-7	15	
Endosulfan II	A	11217	10140	20.00000	18.07928	pg	-10	15	
4,4'-DDT	A	9508.9	8549.2	20.00000	17.98149	pg	-10	15	
Endrin aldehyde	A	8794.0	8377.4	20.00000	19.05247	pg	-5	15	
Methoxychlor	A	3977.4	3937.8	100.0000	99.00375	pg	-1	15	
Endosulfan sulfate	A	9824.1	8937.9	20.00000	18.19600	pg	-9	15	
Endrin ketone	A	11596	10958	20.00000	18.89836	pg	-6	15	
TCMX	A	10733	9607.2	20.00000	17.90256	pg	-10	15	
Decachlorobiphenyl	A	7863.9	7668.4	20.00000	19.50289	pg	-2	15	
alpha-BHC	B	23859	22126	10.00000	9.273986	pg	-7	15	
gamma-BHC	B	21675	20035	10.00000	9.243083	pg	-8	15	
beta-BHC	B	9118.0	8837.0	10.00000	9.691747	pg	-3	15	
delta-BHC	B	21560	20008	10.00000	9.280393	pg	-7	15	
Heptachlor	B	16495	15375	10.00000	9.321470	pg	-7	15	
Aldrin	B	19980	18977	10.00000	9.498063	pg	-5	15	
Heptachlor epoxide	B	18652	17679	10.00000	9.478571	pg	-5	15	
gamma-Chlordane	B	18532	17784	10.00000	9.596430	pg	-4	15	
alpha-Chlordane	B	17862	17218	10.00000	9.639095	pg	-4	15	
4,4'-DDE	B	17597	17703	20.00000	20.12071	pg	1	15	
Endosulfan I	B	16719	16191	10.00000	9.683858	pg	-3	15	
Dieldrin	B	17750	17294	20.00000	19.48698	pg	-3	15	
Endrin	B	14505	14087	20.00000	19.42411	pg	-3	15	
4,4'-DDD	B	13904	14081	20.00000	20.25491	pg	1	15	
Endosulfan II	B	15094	15155	20.00000	20.08094	pg	0	15	
4,4'-DDT	B	12958	12438	20.00000	19.19738	pg	-4	15	
Endrin aldehyde	B	11468	11492	20.00000	20.04159	pg	0	15	
Methoxychlor	B	5189.1	5826.3	100.0000	112.2798	pg	12	15	
Endosulfan sulfate	B	13019	13247	20.00000	20.35019	pg	2	15	
Endrin ketone	B	16430	15924	20.00000	19.38359	pg	-3	15	
TCMX	B	14757	14323	20.00000	19.41261	pg	-3	15	
Decachlorobiphenyl	B	10420	11733	20.00000	22.52030	pg	13	15	
Average EPA 8081A	A		(count=22)				8	15	
Average EPA 8081A	B		(count=22)				4	15	

Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2051,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 43

Date : 12/5/04 1:38:44 PM
Data Acquisition Time : 12/3/04 6:23:49 PM
Channel : A
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHA\337a043p.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL A METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.383	192144.06	17.9026	1.000	1	17.903
alpha-BHC	7.922	153787.00	8.9162	1.000	1	8.916
gamma-BHC	8.784	139296.68	8.9708	1.000	1	8.971
beta-BHC	9.055	60809.82	9.4046	1.000	1	9.405
delta-BHC	9.515	139040.77	8.8769	1.000	1	8.877
Heptachlor	10.048	125063.00	9.1512	1.000	1	9.151
Aldrin	10.818	128631.00	9.0422	1.000	1	9.042
Heptachlor epoxide	12.401	120809.98	9.2353	1.000	1	9.235
gamma-Chlordane	12.717	120243.00	9.1067	1.000	1	9.107
alpha-Chlordane	13.050	117144.00	9.1375	1.000	1	9.138
4,4'-DDE	13.314	238146.93	18.4178	1.000	1	18.418
Endosulfan I	13.374	102492.57	8.7981	1.000	1	8.798
Dieldrin	13.980	236331.53	18.1264	1.000	1	18.126
Endrin	14.537	200345.85	18.5445	1.000	1	18.545
4,4'-DDD	14.796	195322.84	18.5962	1.000	1	18.596
Endosulfan II	15.101	202796.51	18.0793	1.000	1	18.079
4,4'-DDT	15.472	170984.87	17.9815	1.000	1	17.981
Endrin aldehyde	16.149	167547.18	19.0525	1.000	1	19.052
Methoxychlor	16.717	393777.87	99.0038	1.000	1	99.004
Endosulfan sulfate	17.216	178758.62	18.1960	1.000	1	18.196
Endrin ketone	17.868	219151.72	18.8984	1.000	1	18.898
Decachlorobiphenyl	20.318	153368.00	19.5029	1.000	1	19.503
		3755993.80	392.9414			392.941

GP
12/5/04

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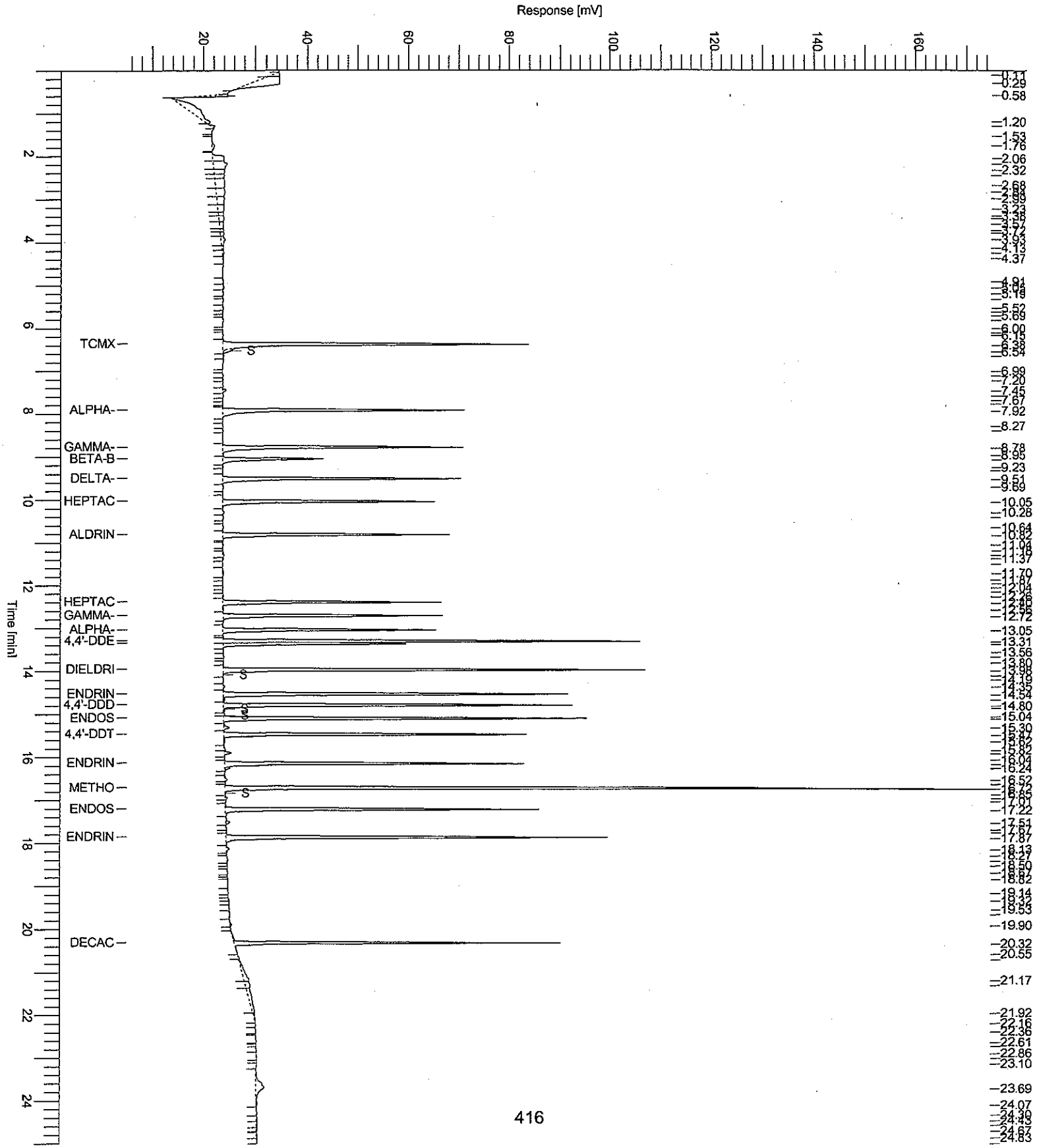
Report stored in ASCII file: G:\gc23\CHA\337a043p.TX0

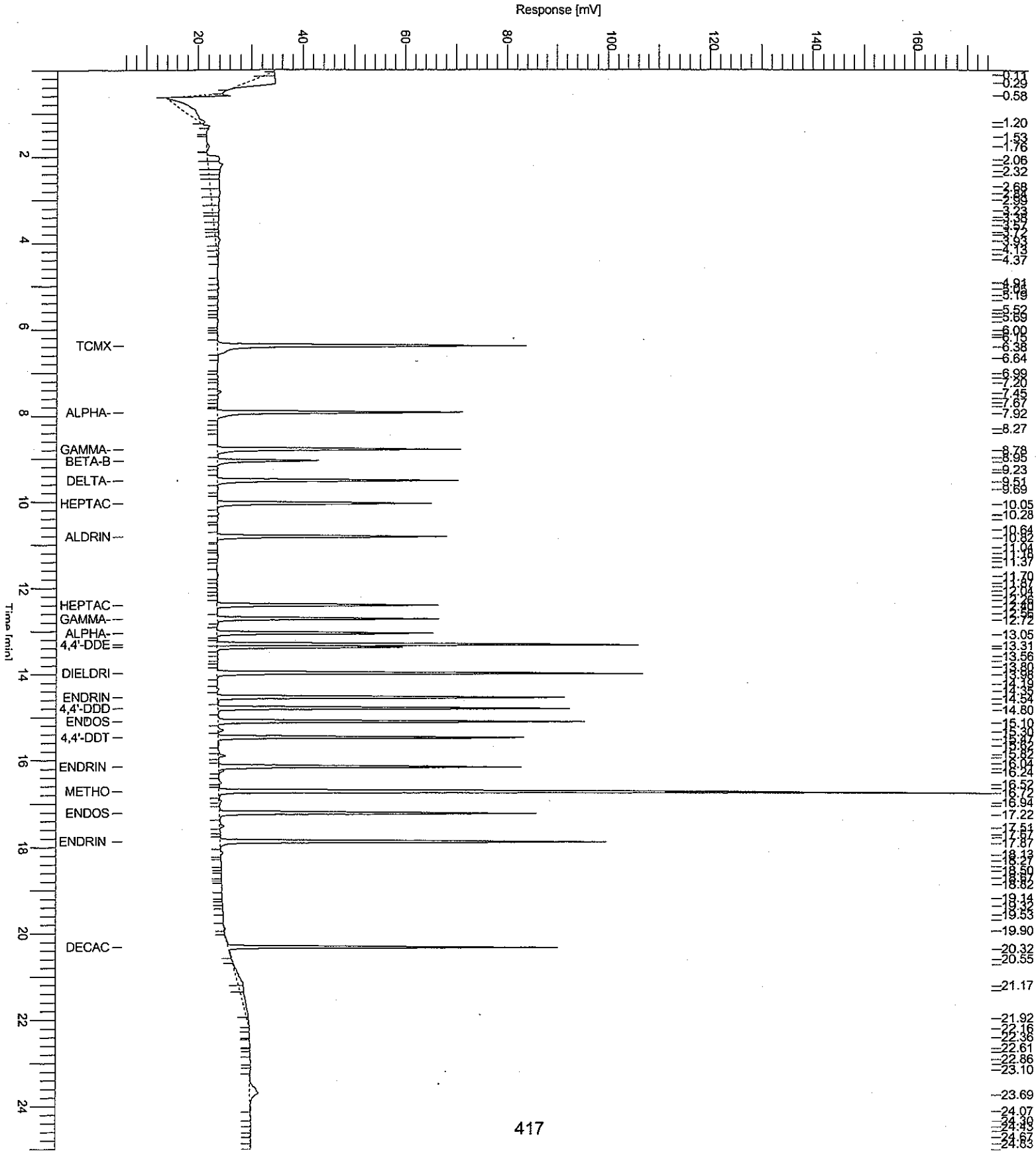
GC23 Rtx-CLPesticides

Sample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l
FileName : G:\gc23\CHa\337a043.raw
Date : 12/5/04 1:38:49 PM
Method : Time of Injection: 12/3/04 6:23:49 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : 5.15 mV High Point : 174.82 mV
Plot Offset: 5.15 mV. Plot Scale: 169.7 mV



GC23 Rtx-CLPesticides

ample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
ileName : G:\gc23\CHa\337a043.raw
ate : 12/5/04 11:14:36 AM
lethod : gc23ins Time of Injection: 12/3/04 6:23:49 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : 5.57 mV High Point : 174.82 mV
cale Factor: 1.0 Plot Offset: 5.57 mV Plot Scale: 169.2 mV



Software Version : 6.1.2.0.1:D19
Sample Name : ccv,04ws2051,pest_3
Instrument Name : GC23
Rack/Vial : 0/0
Sample Amount : 1.000000
Cycle : 43

Date : 12/5/04 1:37:21 PM
Data Acquisition Time : 12/3/04 6:23:49 PM
Channel : B
Operator : analyst
Dilution Factor : 1.000000

Result File : G:\gc23\CHB\337b043p.rst
Sequence File : G:\gc23\Files\337.seq

PEST GC23 CHANNEL B METH. 8081

Component Name	Time [min]	Area [µV·s]	Raw Amount	Multiplier	Dilution Factor	Concentration [ug/Kg - ug/L]
TCMX	6.734	286468.00	19.4126	1.000	1	19.413
alpha-BHC	8.365	221263.41	9.2740	1.000	1	9.274
gamma-BHC	9.302	200345.00	9.2431	1.000	1	9.243
beta-BHC	9.536	88369.50	9.6917	1.000	1	9.692
delta-BHC	10.297	200081.78	9.2804	1.000	1	9.280
Heptachlor	10.433	153753.30	9.3215	1.000	1	9.321
Aldrin	11.246	189768.02	9.4981	1.000	1	9.498
Heptachlor epoxide	12.715	176792.00	9.4786	1.000	1	9.479
gamma-Chlordane	13.183	177844.68	9.5964	1.000	1	9.596
alpha-Chlordane	13.553	172175.98	9.6391	1.000	1	9.639
Endosulfan I	13.668	161905.02	9.6839	1.000	1	9.684
4,4'-DDE	14.046	354061.00	20.1207	1.000	1	20.121
Dieldrin	14.350	345888.75	19.4870	1.000	1	19.487
Endrin	15.087	281746.08	19.4241	1.000	1	19.424
4,4'-DDD	15.463	281619.00	20.2549	1.000	1	20.255
Endosulfan II	15.614	303094.50	20.0809	1.000	1	20.081
4,4'-DDT	16.219	248767.16	19.1974	1.000	1	19.197
Endrin aldehyde	16.453	229842.63	20.0416	1.000	1	20.042
Endosulfan sulfate	17.129	264934.42	20.3502	1.000	1	20.350
Methoxychlor	17.950	582634.06	112.2798	1.000	1	112.280
Endrin ketone	18.401	318470.42	19.3836	1.000	1	19.384
Decachlorobiphenyl	21.135	234668.91	22.5203	1.000	1	22.520
		5474493.61	427.2597			427.260

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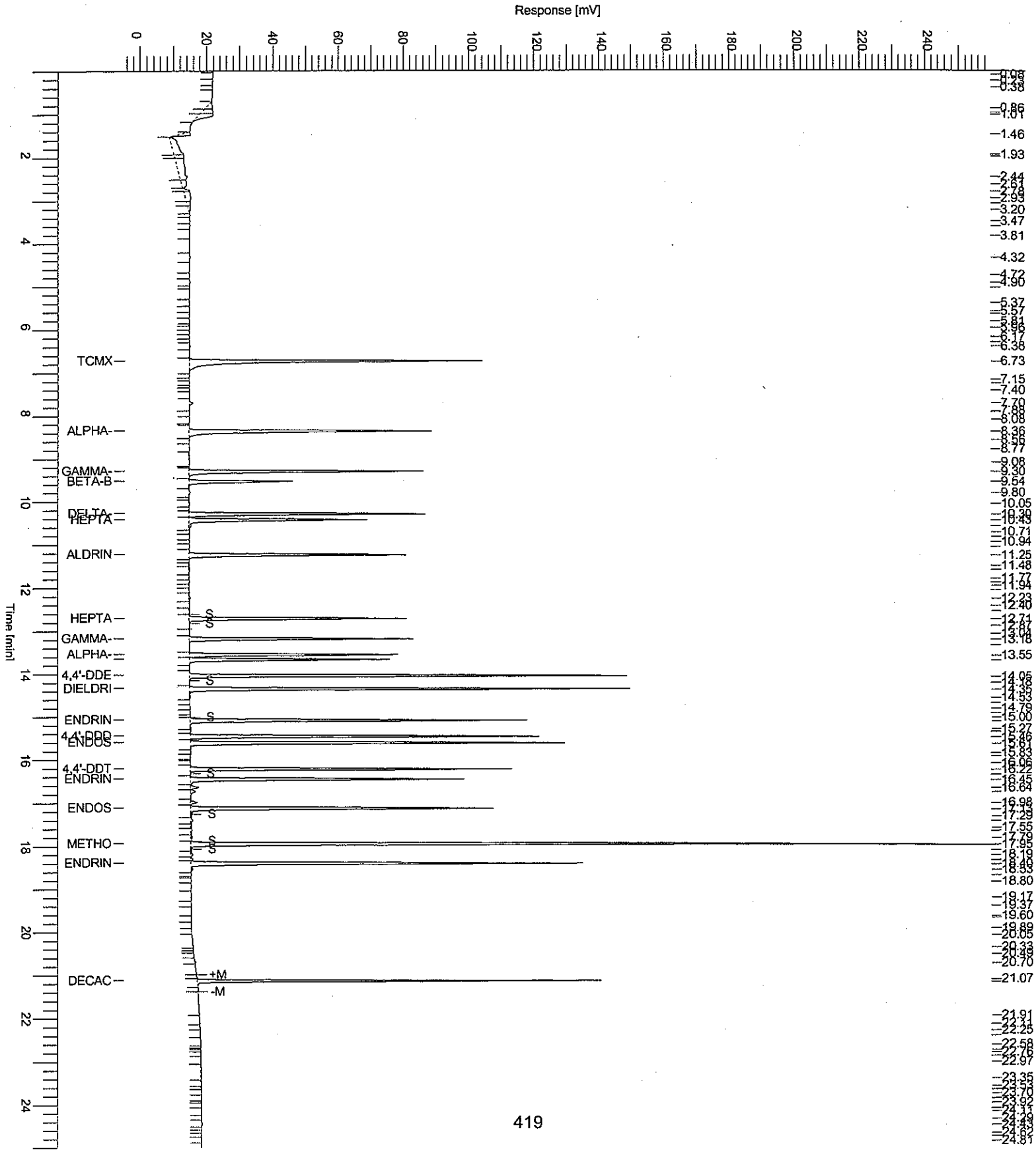
Report stored in ASCII file: G:\gc23\CHB\337b043p.TX0

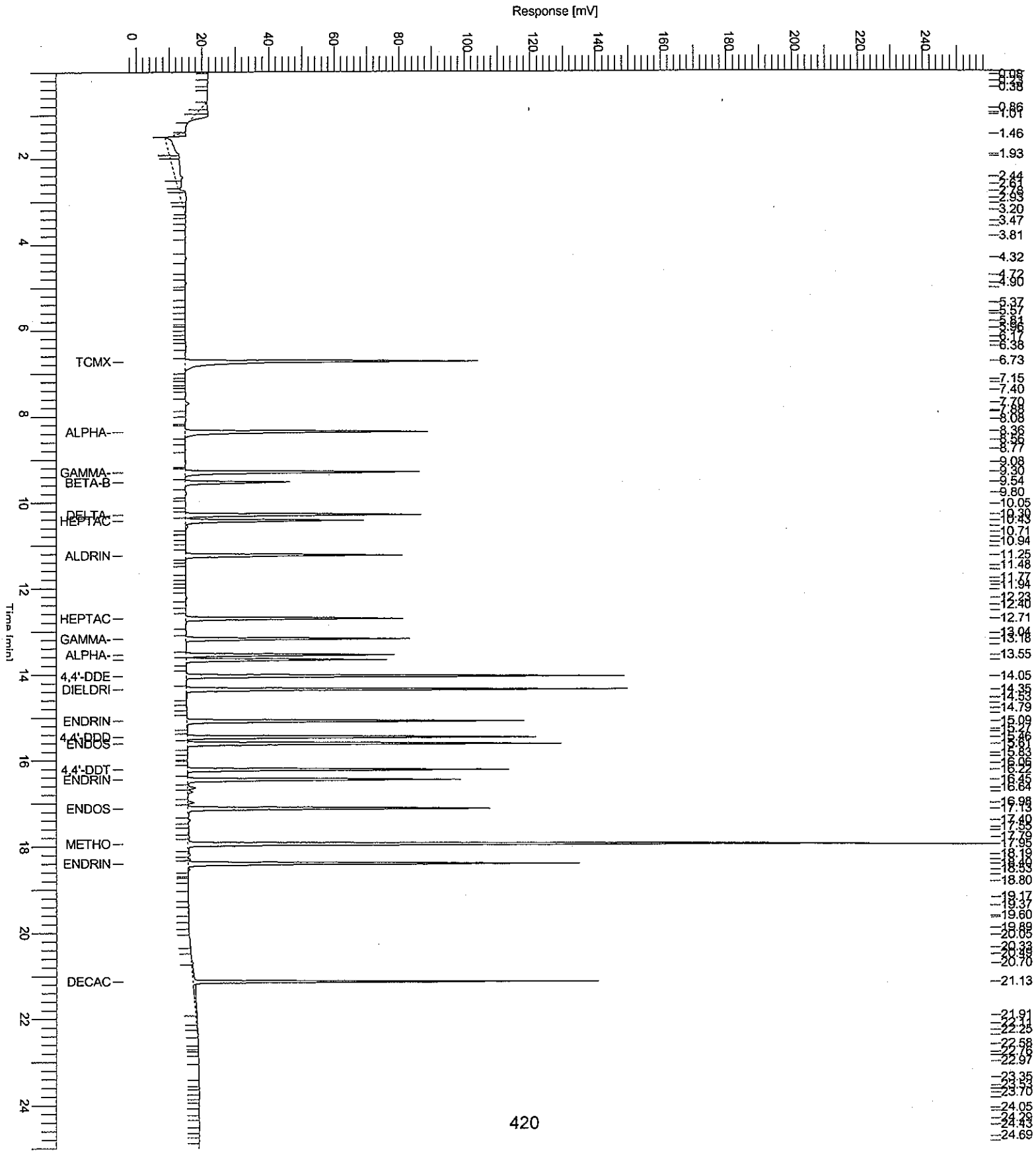
GC23 Rtx-CLPesticides2

Sample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
FileName : G:\gc23\CHb\337b043.raw
Date : 12/5/04 1:37:26 PM
Method : Time of Injection: 12/3/04 6:23:49 PM
Start Time : 0.00 min End Time : 25.00 min Low Point : -4.60 mV High Point : 259.71 mV
Plot Offset: -4.60 mV Plot Scale: 264.3 mV



GC23 Rtx-CLPesticides2

ample Name : ccv,04ws2051,pest_3 Sample #: 10/20 ug/l Page 1 of 1
ileName : G:\gc23\CHb\337b043
ate : 12/5/04 11:15:34 AM
lethod : gc23ins Time of Injection: 12/3/04 6:23:49 PM
tart Time : 0.00 min End Time : 25.00 min Low Point : -3.94 mV High Point : 259.71 mV
cale Factor: 1.0 Plot Offset: -3.94 mV Plot Scale: 263.6 mV



MOISTURE DATA

Percent Moisture Summary Report

Batch: 96865
Date: 11/24/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176248-001	15.5434	23.9600	23.4925	94	6
176248-002	15.4465	23.5327	23.3143	97	3
176248-003	14.9821	22.6910	22.5478	98	2
176248-004	15.3700	22.9022	22.3052	92	8
176248-005	15.0683	22.2974	21.7303	92	8
176249-016	15.5595	22.1219	20.7060	78	22
176249-017	15.2583	22.1430	20.9833	83	17
176249-019	15.3766	22.4577	20.5212	73	27
176249-020	15.2447	22.4425	21.1445	82	18
176250-010	15.5308	23.1413	21.7977	82	18
176250-011	15.5331	23.8455	21.9568	77	23
176250-012	15.3151	23.8502	21.9372	78	22
QC273791	15.4170	22.1651	21.8127	95	5
of 176248-001			RPD:	0.4%	6.2%

Curtis & Tompkins Laboratories Sample Batch Report

Curtis & Tompkins, Ltd.

Batch Number: 96865
Date Started: 24-NOV-2004
Batched by : Kristen Ann Carlyon

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
176248-001			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-002			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-003			Treadwell & Rollo	Soil	MOISTURE	02-DEC-2004
176248-004			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-005			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176249-016			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-017			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-019			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-020			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-010			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-011			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-012			Innovative Technic	Soil	MOISTURE	30-NOV-2004
QC273791	SDUP	of 176248-001		Soil	MOISTURE	

WET CHEMISTRY DEPARTMENT

DATA PACKAGE REVIEW CHECKLIST

Lab No: 96865 Analysis: MOISTURE

Matrix: Water ___ Soil ✓ Misc. ___ Other

I. Contents & Documentation

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		1. Sample prep information present & complete	☐	
☑	☐		2. Run logs present & complete	☐	
☑	☐		3. Sample raw data present	☐	
☑	☐		4. Standards LIMS ID's documented	☐	☐
☐	☐	☑	5. CAR present & complete (if necessary)	☐	☐
☑	☐		6. Analyst entries complete, legible, initialed		

II. Sample Results

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		7. All requested samples analyzed	☐	☐
☑	☐		8. All samples analyzed within hold	☐	☐
☑	☐		9. Units correct for sample matrix	☐	
☑	☐		10. Data transcribed correctly from raw to forms	☐	
☑	☐		11. All results within calibration range	☐	
☐	☐	☑	12. All dilutions in upper half of curve	☐	
☐	☐	☑	13. All matrix interferences documented		

III. Batch QC & Calibration Checks

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐	☐	14. Method blank clean	☐	☐
☐	☐	☑	15. LCS/BS/BSD recoveries & RPD within QC limits	☐	☐
☑	☐	☐	16. Matrix QC performed on a sample in this batch? If not,	☐	
			☐ Insufficient sample volume available for matrix QC, or		
			☐ Other (describe) ___		
☑	☐	☐	17. Matrix QC recoveries &/or RPD within QC limits	☐	☐
☐	☐	☑	18. ICV recovery within QC limits	☐	
☐	☐	☑	19. CCV recoveries within QC limits	☐	

Comments:

☐ Additional Comments Attached

Analyst: By: D. Manuel Date: 11-24-04

Peer Review By: ___ Date: ___

Group Leader Approved: ___ Date: 11/24/04

11/23/04

96865

Sample	Ex.	Disk #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	3	15.4086	—	15.4087	
176248-001	A	4	15.5434	23.9600	23.4925	Taken from B side
176248-001 DUP		46	15.4170	22.1651	21.8127	
-002		101	15.4465	23.5327	23.3143	
-003		16	14.9821	22.6910	22.5478	
-004		30	15.3700	22.9022	22.3052	
-005		134	15.0683	22.2974	21.7303	
176249-016	A	29	15.5595	22.1219	20.7060	COMP 1-3
-017		146	15.2583	22.1430	20.9833	COMP 4-6
~~-018~~		~~39~~	~~15.4996~~	~~23.0892~~	~~21.8671~~	~~Repeat~~ ~~COMP 8,9~~
-019		40	15.3766	22.4577	20.5272	COMP 10-12
-020		24	15.2417	22.4425	21.1245	COMP 13-15
176250-010	A	18	15.5308	23.1413	21.7477	COMP 1-3
011	A	177	15.5331	23.8455	21.9528	COMP 4-6
012	A	34	15.3151	23.8502	21.9372	COMP 7-9

Oven Temp: 104°C
Time In: 10:30 PM
Time Out: 10:30 A.M. On: 11-24-04

Continued on Page

Read and Understood By

Kristen Carlyon 11/23/04 Signed Date

Signed 11/29/04 Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 /

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RGM				
103°C	11-2-04	RGM				
105°C	11-3-04	RGM				
104°C	11-4-04	RGM				
105°C	11-5-04	RGM				
103°C	11-8-04	RGM				
104	~~11-9-04~~	RGM				
105°C	11-10-04	RGM				
105°C	11-11-04	RGM				
105°C	11-12-04	RGM				
105°C	11-15-04	RGM				
105°C	11-16-04	RGM				
105°C	11-17-04	RGM				
104°C	11-18-04	RGM				
104°C	11-19-04	RGM				
103°C	11-22-04	RGM				
103°C	11-23-04	RGM				
103°C	11-24-04	RGM				

000069

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Semivolatile Organics by GC/MS

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX153[0.5]	176248-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
SEMIVOLATILE ORGANICS BY GC/MS (EPA 8270C)

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 11/23/04. The sample was received cold and intact.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

Chain of Custody

176248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2883.12
Project Manager\Contact: Sirinda Rainis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	PCB	Pesticides	VOC	SVOC	mercury	chlor. herb.	TPH-d	TPH-g				Silica gel clean-up	Hold	Remarks
-1 BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X												~~MS/MSD~~
-2 DUP112304A		1242		X						1		X	X	X												
-3 BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X				X		* 5 day TAT MS/MSD
-4 BB3EX151[0.5]		1254		X						1		X	X	X												
-5 BB3EX152[0.5]		1257		X						1		X	X	X												MS/MSD
-6 TB112304A		1315		X			2								X											

Level IV data package
Sample all tubes from and labeled with a "B"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/23/04	1455	Tony Pope	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rolo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX153[0.5]	Batch#:	96932
Lab ID:	176248-003	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/29/04
Basis:	dry	Analyzed:	11/30/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	340	
Phenol	ND	340	52
bis(2-Chloroethyl)ether	ND	340	
2-Chlorophenol	ND	340	
1,3-Dichlorobenzene	ND	340	
1,4-Dichlorobenzene	ND	340	30
Benzyl alcohol	ND	340	
1,2-Dichlorobenzene	ND	340	
2-Methylphenol	ND	340	
bis(2-Chloroisopropyl) ether	ND	340	
4-Methylphenol	ND	340	
N-Nitroso-di-n-propylamine	ND	340	
Hexachloroethane	ND	340	
Nitrobenzene	ND	340	
Isophorone	ND	340	
2-Nitrophenol	ND	680	
2,4-Dimethylphenol	ND	340	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	340	
2,4-Dichlorophenol	ND	340	
1,2,4-Trichlorobenzene	ND	340	
Naphthalene	ND	340	
4-Chloroaniline	ND	340	
Hexachlorobutadiene	ND	340	
4-Chloro-3-methylphenol	ND	340	
2-Methylnaphthalene	ND	340	30
Hexachlorocyclopentadiene	ND	1,700	
2,4,6-Trichlorophenol	ND	340	
2,4,5-Trichlorophenol	ND	340	
2-Chloronaphthalene	ND	340	
2-Nitroaniline	ND	680	
Dimethylphthalate	ND	340	
Acenaphthylene	ND	340	
2,6-Dinitrotoluene	ND	340	
3-Nitroaniline	ND	680	
Acenaphthene	ND	680	
2,4-Dinitrophenol	ND	1,700	
4-Nitrophenol	ND	680	
Dibenzofuran	ND	340	
2,4-Dinitrotoluene	ND	340	
Diethylphthalate	ND	340	
Fluorene	ND	340	
4-Chlorophenyl-phenylether	ND	340	
4-Nitroaniline	ND	680	
4,6-Dinitro-2-methylphenol	ND	1,700	
N-Nitrosodiphenylamine	ND	340	
Azobenzene	ND	340	
4-Bromophenyl-phenylether	ND	340	
Hexachlorobenzene	ND	340	
Pentachlorophenol	ND	680	
Phenanthrene	ND	340	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX153[0.5]	Batch#:	96932
Lab ID:	176248-003	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/29/04
Basis:	dry	Analyzed:	11/30/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Anthracene	ND	340	
Di-n-butylphthalate	ND	340	
Fluoranthene	ND	340	
Pyrene	ND	340	
Butylbenzylphthalate	ND	340	
3,3'-Dichlorobenzidine	ND	680	
Benzo(a)anthracene	ND	68	23
Chrysene	ND	340	
bis(2-Ethylhexyl)phthalate	ND	340	
Di-n-octylphthalate	ND	340	
Benzo(b)fluoranthene	ND	68	24
Benzo(k)fluoranthene	ND	68	38
Benzo(a)pyrene	ND	68	13
Indeno(1,2,3-cd)pyrene	ND	68	14
Dibenz(a,h)anthracene	ND	68	23
Benzo(g,h,i)perylene	ND	340	

Surrogate	%REC	Limits
2-Fluorophenol	78	25-121
Phenol-d5	73	24-113
2,4,6-Tribromophenol	72	19-122
Nitrobenzene-d5	76	23-120
2-Fluorobiphenyl	88	30-115
Terphenyl-d14	73	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC274070	Batch#:	96932
Matrix:	Soil	Prepared:	11/29/04
Units:	ug/Kg	Analyzed:	11/30/04
Basis:	as received		

Analyte	Result	RL	MDL
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	50
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND	330	
1,4-Dichlorobenzene	ND	330	29
Benzyl alcohol	ND	330	
1,2-Dichlorobenzene	ND	330	
2-Methylphenol	ND	330	
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND	330	
Nitrobenzene	ND	330	
Isophorone	ND	330	
2-Nitrophenol	ND	660	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	330	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	330	29
Hexachlorocyclopentadiene	ND	1,700	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	660	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	330	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	660	
Acenaphthene	ND	660	
2,4-Dinitrophenol	ND	1,700	
4-Nitrophenol	ND	660	
Dibenzofuran	ND	330	
2,4-Dinitrotoluene	ND	330	
Diethylphthalate	ND	330	
Fluorene	ND	330	
4-Chlorophenyl-phenylether	ND	330	
4-Nitroaniline	ND	660	
4,6-Dinitro-2-methylphenol	ND	1,700	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	660	
Phenanthrene	ND	330	
Anthracene	ND	330	
Di-n-butylphthalate	ND	330	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC274070	Batch#:	96932
Matrix:	Soil	Prepared:	11/29/04
Units:	ug/Kg	Analyzed:	11/30/04
Basis:	as received		

Analyte	Result	RL	MDL
Fluoranthene	ND	330	
Pyrene	ND	330	
Butylbenzylphthalate	ND	330	
3,3'-Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	23
Chrysene	ND	330	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	24
Benzo(k)fluoranthene	ND	66	36
Benzo(a)pyrene	ND	66	13
Indeno(1,2,3-cd)pyrene	ND	66	14
Dibenz(a,h)anthracene	ND	66	23
Benzo(g,h,i)perylene	ND	330	

Surrogate	%REC	Limits
2-Fluorophenol	83	25-121
Phenol-d5	77	24-113
2,4,6-Tribromophenol	75	19-122
Nitrobenzene-d5	78	23-120
2-Fluorobiphenyl	92	30-115
Terphenyl-d14	77	18-137

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC274071	Batch#:	96932
Matrix:	Soil	Prepared:	11/29/04
Units:	ug/Kg	Analyzed:	11/30/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,306	2,501	76	40-119
2-Chlorophenol	3,306	2,847	86	39-119
1,4-Dichlorobenzene	1,653	1,436	87	36-111
N-Nitroso-di-n-propylamine	1,653	1,297	78	35-117
1,2,4-Trichlorobenzene	1,653	1,443	87	36-107
4-Chloro-3-methylphenol	3,306	2,897	88	41-122
Acenaphthene	1,653	1,512	91	36-111
4-Nitrophenol	3,306	2,638	80	45-130
2,4-Dinitrotoluene	1,653	1,446	87	43-114
Pentachlorophenol	3,306	2,326	70	39-119
Pyrene	1,653	1,501	91	35-142

Surrogate	%REC	Limits
2-Fluorophenol	93	25-121
Phenol-d5	85	24-113
2,4,6-Tribromophenol	88	19-122
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	97	30-115
Terphenyl-d14	85	18-137

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8270C
Field ID:	BB3EX153[0.5]	Batch#:	96932
MSS Lab ID:	176248-003	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	ug/Kg	Prepared:	11/29/04
Basis:	dry	Analyzed:	11/30/04
Diln Fac:	1.000		

Type: MS Moisture: 2%
Lab ID: QC274072

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<52.04	3,383	2,674	79	26-100
2-Chlorophenol	<39.80	3,383	3,027	89	25-102
1,4-Dichlorobenzene	<29.59	1,692	1,509	89	28-104
N-Nitroso-di-n-propylamine	<32.65	1,692	1,391	82	41-126
1,2,4-Trichlorobenzene	<18.37	1,692	1,552	92	38-107
4-Chloro-3-methylphenol	<40.82	3,383	2,957	87	26-103
Acenaphthene	<21.43	1,692	1,643	97	31-137
4-Nitrophenol	<31.63	3,383	2,389	71	11-114
2,4-Dinitrotoluene	<30.61	1,692	1,553	92	28-100
Pentachlorophenol	<89.80	3,383	2,490	74	17-109
Pyrene	<21.43	1,692	1,612	95	35-142

Surrogate	%REC	Limits
2-Fluorophenol	94	25-121
Phenol-d5	87	24-113
2,4,6-Tribromophenol	91	19-122
Nitrobenzene-d5	89	23-120
2-Fluorobiphenyl	104	30-115
Terphenyl-d14	90	18-137

Type: MSD Moisture: 2%
Lab ID: QC274073

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,391	2,497	74	26-100	7	35
2-Chlorophenol	3,391	2,791	82	25-102	8	50
1,4-Dichlorobenzene	1,696	1,282	76	28-104	16	27
N-Nitroso-di-n-propylamine	1,696	1,299	77	41-126	7	38
1,2,4-Trichlorobenzene	1,696	1,370	81	38-107	13	23
4-Chloro-3-methylphenol	3,391	2,897	85	26-103	2	33
Acenaphthene	1,696	1,545	91	31-137	6	19
4-Nitrophenol	3,391	2,437	72	11-114	2	50
2,4-Dinitrotoluene	1,696	1,499	88	28-100	4	47
Pentachlorophenol	3,391	2,452	72	17-109	2	48
Pyrene	1,696	1,552	92	35-142	4	36

Surrogate	%REC	Limits
2-Fluorophenol	85	25-121
Phenol-d5	80	24-113
2,4,6-Tribromophenol	86	19-122
Nitrobenzene-d5	79	23-120
2-Fluorobiphenyl	97	30-115
Terphenyl-d14	85	18-137

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT02.D

Date : 29-NOV-2004 10:12

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

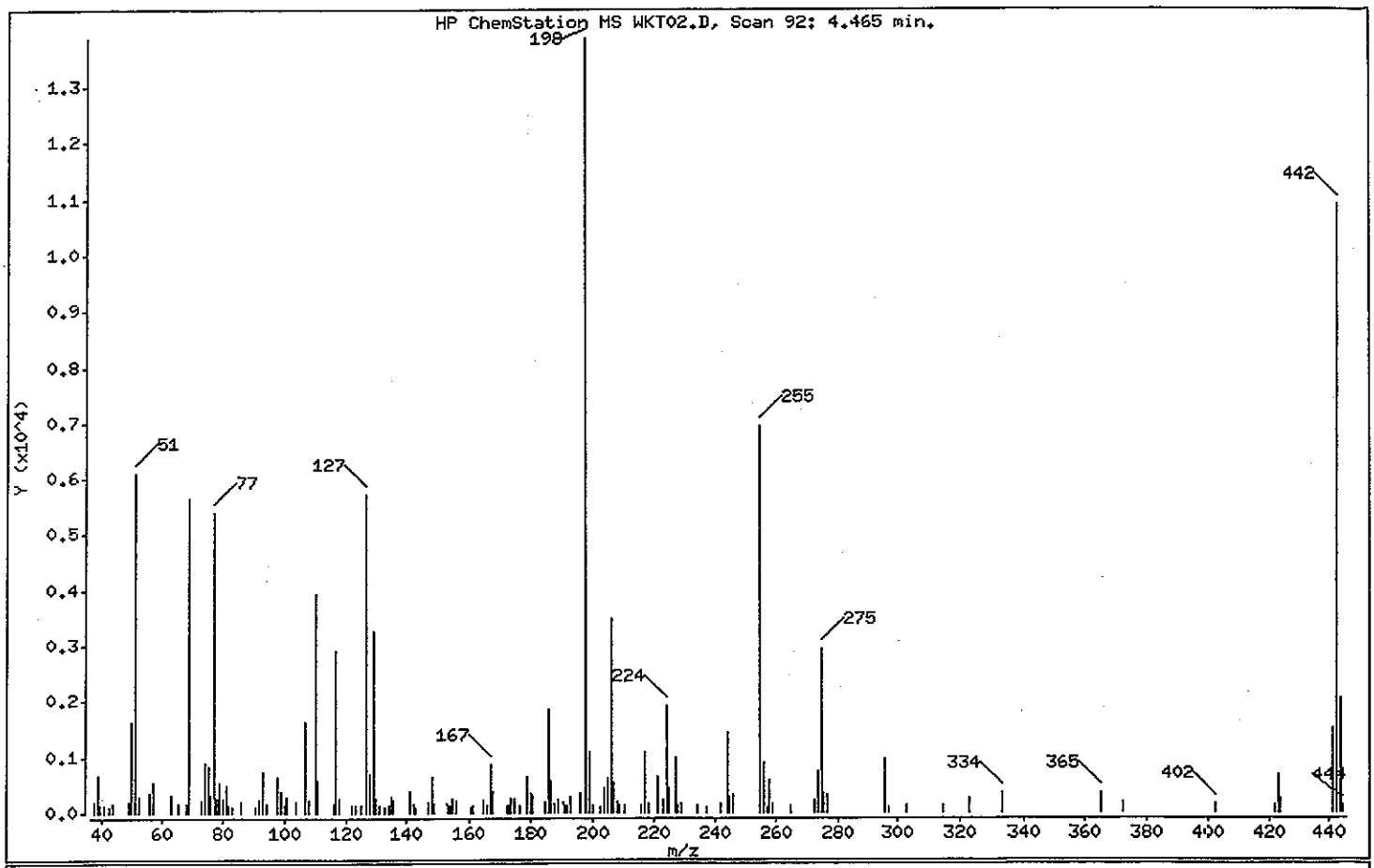
Volume Injected (uL): 1.0

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.08
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.79
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.24
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.79
275	10.00 - 30.00% of mass 198	21.27
365	Greater than 1.00% of mass 198	2.45
441	Present, but less than mass 443	10.72
442	40.00 - 99.99% of mass 198	78.46
443	17.00 - 23.00% of mass 442	14.79 (18.85)

ICAL
ok
11/30/04

11/30/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU01.D

Date : 30-NOV-2004 11:45

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

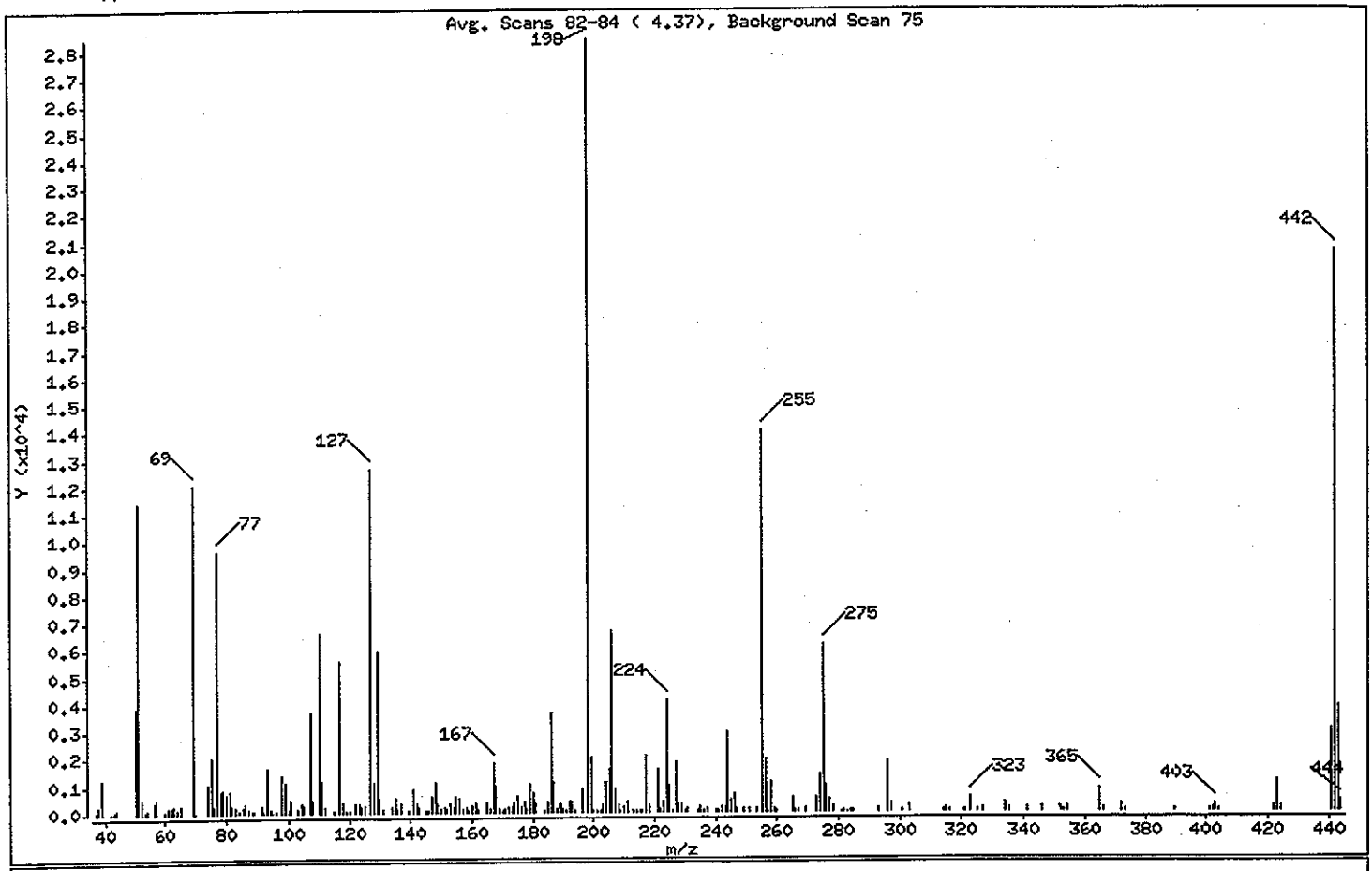
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.10
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.40
70	Less than 2.00% of mass 69	0.10 (0.24)
127	40.00 - 60.00% of mass 198	44.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.15
275	10.00 - 30.00% of mass 198	21.75
365	Greater than 1.00% of mass 198	3.10
441	Present, but less than mass 443	10.71
442	40.00 - 99.99% of mass 198	72.66
443	17.00 - 23.00% of mass 442	13.57 (18.68)

Ok

Lect Plotting

12/01/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU10.D

Date : 30-NOV-2004 17:00

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

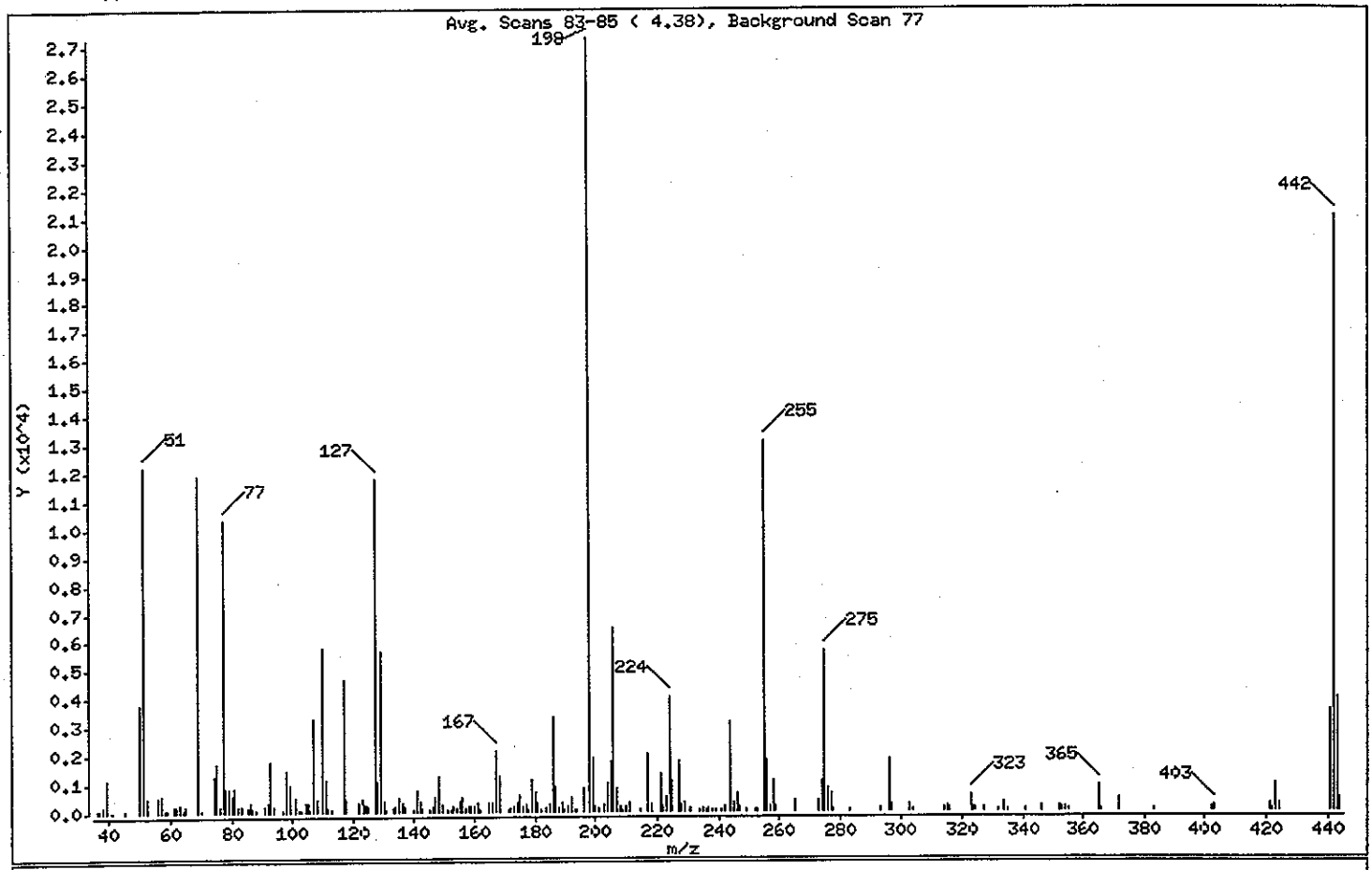
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.74
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.45
70	Less than 2.00% of mass 69	0.27 (0.62)
127	40.00 - 60.00% of mass 198	43.16
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	20.84
365	Greater than 1.00% of mass 198	3.11
441	Present, but less than mass 443	12.90
442	40.00 - 99.99% of mass 198	77.05
443	17.00 - 23.00% of mass 442	14.62 (18.97)

ok

12/01/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Calibration levels: BNA04 8270 Calibration

- manual integration due to tailing/splitting/ misidentified peaks:

* ICAL = Aniline/Benzidine failed %RSD > R^2 = NT
* ICV = Benzidine ↑ %D
  = 3-Nitroaniline ↑ warning limit.

— [illegible] 11/30/04 —

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	wkt05	534481550005	2ug/mL	29-NOV-2004 11:53	04WS1856
2	wkt06	534481550006	5ug/mL	29-NOV-2004 12:28	04WS1908
3	wkt07	534481550007	10ug/mL	29-NOV-2004 13:04	04WS1857
4	wkt08	534481550008	20ug/mL	29-NOV-2004 13:39	04WS1858
5	wkt09	534481550009	50ug/mL	29-NOV-2004 14:15	04WS1859
6	wkt10	534481550010	80ug/mL	29-NOV-2004 14:51	04WS1860
7	wkt11	534481550011	100ug/mL	29-NOV-2004 15:26	04WS1923
8	wkt12	534481550012	120ug/mL	29-NOV-2004 16:02	04WS1861
9	wkt13	534481550013	160ug/mL	29-NOV-2004 16:37	04WS1862

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	P
N-Nitrosodimethylamine		0.4660m	0.5050m	0.4955m	0.5250	0.5246	0.5021	0.5489	0.5695	AVRG	R		1.933977		ng	0.5171	6	0.0500	0.99	15	
Pyridine		0.7514m	0.7985m	0.7705m	0.8265	0.8376	0.8212	0.8895	0.9337	AVRG	R		1.206811		ng	0.8286	7	0.0500	0.99	15	
Phenol		1.2661	1.3717	1.3850	1.3174	1.2754	1.2033	1.2784	1.2786	AVRG	R		0.771017		ng	1.2970	5	0.0500	0.99	15	
Aniline		0.6231m	0.7055m	0.7556m	0.7818m	0.4812m	0.3702m	0.3576m	0.4002m	AVRG	R		1.787602		ng	0.5594	32 NT	0.0500	0.99	15	
bis(2-Chloroethyl)ether		0.7815m	0.8467	0.8429	0.8188	0.7970	0.7720	0.9009	0.9856m	AVRG	R		1.185998		ng	0.8432	8	0.0500	0.99	15	
2-Chlorophenol		1.1504	1.2412	1.2493	1.2737	1.2629	1.2152	1.3234	1.4039	AVRG	R		0.790510		ng	1.2650	6	0.0500	0.99	15	
1,3-Dichlorobenzene		1.3596	1.4153	1.4225	1.4210	1.3926	1.3271	1.4587	1.5152	AVRG	R		0.707209		ng	1.4140	4	0.0500	0.99	15	
1,4-Dichlorobenzene		1.3631	1.4001	1.4275	1.4199	1.4241	1.3661	1.4041	1.3429	AVRG	R		0.717624		ng	1.3935	2	0.0500	0.99	15	
Benzyl alcohol		0.6679	0.7259	0.7380	0.7740	0.7488	0.7145	0.7985	0.9297m	AVRG	R		1.312082		ng	0.7621	10	0.0500	0.99	15	
1,2-Dichlorobenzene		1.3135	1.3673	1.3225	1.3473	1.3475	1.2670	1.3030	1.2674	AVRG	R		0.759319		ng	1.3170	3	0.0500	0.99	15	
2-Methylphenol		0.7873	0.8338	0.8451	0.8423	0.8172	0.7516	0.7498	0.6799	AVRG	R		1.268426		ng	0.7884	7	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		2.0949	2.2971	2.2189	2.0631	1.9056	1.7131	1.6095	1.5756	AVRG	R		0.516867		ng	1.9347	14	0.0500	0.99	15	
4-Methylphenol		1.2243	1.2358	1.3017	1.2916	1.2716m	1.2387m	1.3394m	1.3015m	AVRG	R		0.783956		ng	1.2756	3	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.5976	0.6620	0.6453	0.6476	0.6202	0.5966m	0.5494	0.5992	AVRG	R		1.626705		ng	0.6147	6	0.0500	0.99	15	
Hexachloroethane		0.5871	0.6177	0.6064	0.6151	0.6002	0.5695	0.5502	0.5412	AVRG	R		1.706677		ng	0.5859	5	0.0500	0.99	15	
Nitrobenzene		0.2781	0.2996	0.2949	0.2959	0.2939	0.2770	0.2911	0.2856	AVRG	R		3.454329		ng	0.2895	3	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

11/30/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	F
Isophorone		0.5656	0.6392	0.6240	0.6512m	0.6279m	0.5931m	0.6273m	0.6126m	AVRG	R		1.619149		ng	0.6176	4	0.0500	0.99	15	
2-Nitrophenol		0.2053	0.2193	0.2278	0.2385	0.2570	0.2495m	0.2621	0.2602	AVRG	R		4.167540		ng	0.2399	9	0.0500	0.99	15	
2,4-Dimethylphenol		0.2342	0.2286	0.2458	0.2336	0.2353	0.2453m	0.2726m	0.2722m	AVRG	R		4.065777		ng	0.2460	7	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.3702	0.3953	0.3895	0.3924	0.3854	0.3621	0.3725m	0.3365	AVRG	R		2.663186		ng	0.3755	5	0.0500	0.99	15	
Benzoic acid		0.0110m	0.0399	0.0426	0.1300	0.1732m	0.1756m	0.1872m	0.2039m	QUAD	R	9.717033	5.762628	-0.03610	ng	0.1204	0.996	0.0500	0.99	15	
2,4-Dichlorophenol		0.2919	0.3253	0.3253	0.3386	0.3439	0.3257	0.3416	0.3149	AVRG	R		3.068246		ng	0.3259	5	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3627	0.3969	0.3909	0.4055	0.4013	0.3776	0.3954	0.3907	AVRG	R		2.563143		ng	0.3901	4	0.0500	0.99	15	
Naphthalene	1.0282	0.9384	1.0234	1.0040	1.0201	0.9746	0.9004	0.8753	0.8648	AVRG	R		1.042976		ng	0.9588	7	0.0500	0.99	15	
4-Chloroaniline		0.3398	0.3298	0.3614	0.4368	0.4208	0.4048	0.4406	0.4304m	AVRG	R		2.528143		ng	0.3955	11	0.0500	0.99	15	
Hexachlorobutadiene		0.2465	0.2589	0.2627	0.2695	0.2575	0.2374	0.2499	0.2480	AVRG	R		3.940129		ng	0.2538	4	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2720	0.2829	0.2861	0.3013	0.3001	0.2848	0.3062	0.2995	AVRG	R		3.429390		ng	0.2916	4	0.0500	0.99	15	
2-Methylnaphthalene	0.7029	0.6895	0.7287	0.7356	0.7651	0.7229	0.6445	0.6708	0.6819	AVRG	R		1.419140		ng	0.7047	5	0.0500	0.99	15	
Hexachlorocyclopentadiene			0.1931	0.2404	0.2972	0.3086	0.2932	0.2671	0.2842	AVRG	R		3.715935		ng	0.2691	15	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3464	0.4117	0.4226	0.4415	0.4543	0.4167	0.4294	0.4165	AVRG	R		2.395898		ng	0.4174	8	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3724	0.4188	0.4402	0.4482	0.4578	0.4152	0.3894	0.3632	AVRG	R		2.420440		ng	0.4131	9	0.0500	0.99	15	
2-Chloronaphthalene		0.8972	1.0167	1.0041	1.0194	1.0095	0.9389	0.8978	0.8943	AVRG	R		1.041961		ng	0.9597	6	0.0500	0.99	15	
2-Nitroaniline		0.2437	0.2812	0.2732	0.2855	0.2823	0.2572	0.2798	0.2770	AVRG	R		3.669819		ng	0.2725	5	0.0500	0.99	15	
Dimethylphthalate		1.3441	1.4916	1.4463	1.4798	1.4917	1.3717	1.4788	1.4595	AVRG	R		0.691838		ng	1.4454	4	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2852	0.3386	0.3355	0.3528	0.3574	0.3351	0.3378	0.3176	AVRG	R		3.007560		ng	0.3325	7	0.0500	0.99	15	
Acenaphthylene	1.5309	1.5302	1.6714	1.6749	1.7064	1.6171	1.4557	1.4590	1.3128	AVRG	R		0.644768		ng	1.5509	8	0.0500	0.99	15	
3-Nitroaniline		0.2545	0.2192	0.2364	0.3042	0.3130	0.2905	0.3109	0.2807m	AVRG	R		3.620868		ng	0.2762	13	0.0500	0.99	15	
Acenaphthene	0.9606	0.8525	0.9622	0.9387	0.9745	0.9446	0.8606	0.8495	0.8284	AVRG	R		1.101377		ng	0.9080	6	0.0500	0.99	15	
2,4-Dinitrophenol				0.1202	0.1964	0.2192	0.2154	0.2490	0.2564	QUAD	R	9.674431	4.359340	-0.01763	ng	0.2094	0.997	0.0500	0.99	15	
4-Nitrophenol				0.1359	0.1640	0.1850	0.1745	0.1853	0.1901	AVRG	R		5.798553		ng	0.1725	12	0.0500	0.99	15	
Dibenzofuran		1.3600	1.5449	1.5144	1.5121	1.4831	1.3006	1.3063	1.2753	AVRG	R		0.708170		ng	1.4121	8	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3627	0.4488	0.4483	0.4589	0.4526	0.4116	0.4565	0.4584	AVRG	R		2.287126		ng	0.4372	8	0.0500	0.99	15	
Diethylphthalate		1.3343	1.5280	1.5056	1.5598	1.4777	1.3341	1.3225	1.2646	AVRG	R		0.706305		ng	1.4158	8	0.0500	0.99	15	
Fluorene	1.2039	1.1763	1.2766	1.2458	1.2189	1.1878	1.0417	1.1156	1.0533m	AVRG	R		0.855517		ng	1.1689	7	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6410	0.7242	0.7019	0.6880	0.6507	0.5947	0.5893	0.5623	AVRG	R		1.552781		ng	0.6440	9	0.0500	0.99	15	
4-Nitroaniline		0.1609	0.1774	0.2038	0.2474	0.2836	0.2654	0.2597	0.2639	QUAD	R	4.082449	3.422815	0.006633	ng	0.2328	0.998	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol			0.1127	0.1359	0.1624	0.1731	0.1622	0.1705	0.1620	AVRG	R		6.488032		ng	0.1541	14	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	F
N-Nitrosodiphenylamine		0.4133	0.4509	0.4489	0.4589	0.4623	0.4279	0.4301	0.4157	AVRG	R		2.280525		ng	0.4385	4	0.0500	0.99	15	
Azobenzene		0.5682	0.6139	0.5974	0.6324	0.6148	0.5980	0.6104	0.6101	AVRG	R		1.651161		ng	0.6056	3	0.0500	0.99	15	
4-Bromophenyl-phenylether		0.2149	0.2394	0.2402	0.2467	0.2430	0.2178	0.2353	0.2427	AVRG	R		4.255202		ng	0.2350	5	0.0500	0.99	15	
Hexachlorobenzene		0.2692	0.3018	0.2986	0.3019	0.2778	0.2588	0.2696	0.2733	AVRG	R		3.553810		ng	0.2814	6	0.0500	0.99	15	
Pentachlorophenol			0.1460	0.1651	0.1927	0.1953	0.1819	0.1958	0.2009	AVRG	R		5.478736		ng	0.1825	11	0.0500	0.99	15	
Phenanthrene	0.9713	0.8711	0.9603	0.9441	0.9900	0.9385	0.8832	0.9101	0.9033	AVRG	R		1.075024		ng	0.9302	4	0.0500	0.99	15	
Anthracene	0.9588	0.8962	0.9703	0.9776	0.9810	0.9308	0.8520	0.8680	0.8660	AVRG	R		1.084253		ng	0.9223	6	0.0500	0.99	15	
Carbazole		0.7079	0.6535	0.5624	0.6401	0.7416	0.7014	0.7822	0.7683	AVRG	R		1.439514		ng	0.6947	11	0.0500	0.99	15	
Di-n-butylphthalate		1.4643	1.6292	1.6393	1.4818	1.3801	1.3088	1.2761	1.2073	AVRG	R		0.702555		ng	1.4234	11	0.0500	0.99	15	
Fluoranthene	1.1857	1.0851	1.1845	1.1543	1.1679	1.1596	1.0099	1.0378	1.0164	AVRG	R		0.899887		ng	1.1113	7	0.0500	0.99	15	
Benzidine		0.0558	0.0540	0.1178	0.0463	0.0842	0.0432	0.0544	0.0748	AVRG	R		15.08143		ng	0.0663	38 NT	0.0500	0.99	15	
Pyrene	1.2596	1.1569	1.2973	1.3110	1.3328	1.2838	1.2166	1.3349	1.4508	AVRG	R		0.772948		ng	1.2937	6	0.0500	0.99	15	
Butylbenzylphthalate		0.7150	0.7931	0.8063	0.8061	0.8194	0.7419	0.8003	0.8419	AVRG	R		1.265009		ng	0.7905	5	0.0500	0.99	15	
3,3'-Dichlorobenzidine		0.3215	0.2864	0.2910	0.3930	0.3961	0.3463	0.3930	0.3865	AVRG	R		2.843115		ng	0.3517	13	0.0500	0.99	15	
Benzo(a)anthracene	1.2991	1.1666	1.2673	1.2681	1.2704	1.2615	1.1378	1.2997m	1.3708m	AVRG	R		0.793559		ng	1.2601	6	0.0500	0.99	15	
bis(2-Ethylhexyl)phthalate		1.0695	1.1835	1.2119	1.0515	0.9701	0.8912	1.0022	0.9871	AVRG	R		0.956143		ng	1.0459	10	0.0500	0.99	15	
Chrysene	1.1249	1.0207	1.1321	1.1551	1.1499	1.1057	1.0386	1.1357	1.1104m	AVRG	R		0.902421		ng	1.1081	4	0.0500	0.99	15	
Di-n-octylphthalate		1.8785	2.2477	2.2822	2.4537	2.6272	2.5578	2.7537	2.9482	AVRG	R		0.405084		ng	2.4686	13	0.0500	0.99	15	
Benzo(b)fluoranthene	1.3211m	1.1867m	1.3472m	1.3318m	1.8612	1.8604	1.8343			QUAD	R	2.640563	0.516768	5.451E-5	ng	1.5347	0.998	0.0500	0.99	15	
Benzo(k)fluoranthene	1.2892	1.2368	1.3373	1.4449m	1.1048m	1.2593m	1.1504m	1.1303m	1.0587m	AVRG	R		0.817312		ng	1.2235	10	0.0500	0.99	15	
Benzo(a)pyrene	1.1146	1.0556	1.1967	1.1867	1.2070	1.2497	1.1687	1.2867	1.2622	AVRG	R		0.838932		ng	1.1920	6	0.0500	0.99	15	
Indeno(1,2,3-cd)pyrene	1.2729	1.1896	1.3924	1.3666	1.2665	1.2438	1.1279	1.1076	0.8923	AVRG	R		0.828752		ng	1.2066	13	0.0500	0.99	15	
Dibenz(a,h)anthracene	0.9812	0.9287	1.1005	1.0915	1.0314	1.0130	0.9208	0.9202	0.7661	AVRG	R		1.028178		ng	0.9726	11	0.0500	0.99	15	
Benzo(g,h,i)perylene	1.0820	0.9833	1.1458	1.1198	0.9843	0.9568	0.8663	0.7998		AVRG	R		1.007813		ng	0.9922	12	0.0500	0.99	15	
2-Fluorophenol		0.8936	1.0055	0.9997	1.0319	1.0414	1.0080	1.1005	1.1387	AVRG	R		0.973321		ng	1.0274	7	0.0500	0.99	15	
Phenol-d5		1.1077	1.2210	1.2046	1.2566	1.2366	1.1905	1.2635	1.2375	AVRG	R		0.823219		ng	1.2147	4	0.0500	0.99	15	
Nitrobenzene-d5		0.2935	0.3159	0.3210	0.3255	0.3171	0.3019	0.3259	0.3293	AVRG	R		3.162043		ng	0.3163	4	0.0500	0.99	15	
2-Fluorobiphenyl		1.1518	1.2507	1.2457	1.2597	1.2378	1.0817	1.0392	1.0890	AVRG	R		0.855117		ng	1.1694	8	0.0500	0.99	15	
2,4,6-Tribromophenol		0.2301	0.2845	0.2846	0.3055	0.2929	0.2560	0.2824	0.2751	AVRG	R		3.618098		ng	0.2764	8	0.0500	0.99	15	
Terphenyl-d14		0.9334	1.0195	1.0423	1.0237	0.9599	0.9139	1.0480	1.1194	AVRG	R		0.992558		ng	1.0075	7	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : 50ug/mL
Seqnum : 534481550014 Filename : wkt14 Injected : 29-NOV-2004 17:13
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS2061

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aniline	50.00000	54.69520	ng	9	30	
Benzyl alcohol	50.00000	50.70600	ng	1	30	
4-Chloroaniline	50.00000	54.66690	ng	9	30	
2-Methylnaphthalene	50.00000	55.44300	ng	11	30	
2-Nitroaniline	50.00000	54.00040	ng	8	30	
3-Nitroaniline	50.00000	61.59020	ng	23	30	!v+
Dibenzofuran	50.00000	57.26610	ng	15	30	
4-Nitroaniline	50.00000	57.77840	ng	16	30	

ISTD (CCV=wkt04)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	341343	366362	7.33	6.93	6.93	0.00
Naphthalene-d8	1193108	1302661	9.18	8.43	8.43	0.00
Acenaphthene-d10	786378	871258	10.79	10.56	10.56	0.00
Phenanthrene-d10	1427871	1571783	10.08	12.38	12.38	0.00
Chrysene-d12	1306789	1442009	10.35	15.72	15.71	-0.01
Perylene-d12	1138650	1165378	2.35	18.37	18.36	-0.01

11/30/04

11/30/04

!=warning +=high bias v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : 50ug/mL
Seqnum : 534481550015 Filename : wkt15 Injected : 29-NOV-2004 17:48
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS2062

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	50.00000	52.38990	ng	5	30	m
Pyridine	50.00000	56.61800	ng	13	30	m
Phenol	50.00000	49.77210	ng	0	20	
bis(2-Chloroethyl)ether	50.00000	50.74200	ng	1	30	
2-Chlorophenol	50.00000	52.43500	ng	5	30	
1,3-Dichlorobenzene	50.00000	51.46240	ng	3	30	
1,4-Dichlorobenzene	50.00000	51.92870	ng	4	20	
1,2-Dichlorobenzene	50.00000	52.67680	ng	5	30	
2-Methylphenol	50.00000	56.16390	ng	12	30	
bis(2-Chloroisopropyl) ether	50.00000	55.17140	ng	10	30	
4-Methylphenol	50.00000	53.58120	ng	7	30	
N-Nitroso-di-n-propylamine	50.00000	57.60220	ng	15	30	
Hexachloroethane	50.00000	56.29290	ng	13	30	
Nitrobenzene	50.00000	53.02430	ng	6	30	
Isophorone	50.00000	57.54280	ng	15	30	
2-Nitrophenol	50.00000	51.58730	ng	3	20	
2,4-Dimethylphenol	50.00000	55.94110	ng	12	30	
bis(2-Chloroethoxy)methane	50.00000	52.45930	ng	5	30	
Benzoic acid	50.00000	58.38250	ng	17	40	
2,4-Dichlorophenol	50.00000	55.22840	ng	10	20	
1,2,4-Trichlorobenzene	50.00000	52.77720	ng	6	30	
Naphthalene	50.00000	56.14570	ng	12	30	
Hexachlorobutadiene	50.00000	53.67360	ng	7	20	
4-Chloro-3-methylphenol	50.00000	55.01280	ng	10	20	
Hexachlorocyclopentadiene	50.00000	56.47260	ng	13	40	
2,4,6-Trichlorophenol	50.00000	58.08330	ng	16	20	
2,4,5-Trichlorophenol	50.00000	56.22090	ng	12	30	
2-Chloronaphthalene	50.00000	57.83170	ng	16	30	
Dimethylphthalate	50.00000	54.67580	ng	9	30	
2,6-Dinitrotoluene	50.00000	54.10720	ng	8	30	
Acenaphthylene	50.00000	58.30070	ng	17	30	
Acenaphthene	50.00000	56.50180	ng	13	20	
2,4-Dinitrophenol	50.00000	49.77620	ng	0	40	
4-Nitrophenol	50.00000	49.52030	ng	-1	40	
2,4-Dinitrotoluene	50.00000	55.08120	ng	10	30	
Diethylphthalate	50.00000	57.58100	ng	15	30	
Fluorene	50.00000	56.58560	ng	13	30	
4-Chlorophenyl-phenylether	50.00000	58.71220	ng	17	40	
4,6-Dinitro-2-methylphenol	50.00000	58.72840	ng	17	30	
N-Nitrosodiphenylamine	50.00000	42.94800	ng	-14	20	
Azobenzene	50.00000	53.17480	ng	6	30	
4-Bromophenyl-phenylether	50.00000	56.21490	ng	12	30	
Hexachlorobenzene	50.00000	56.65150	ng	13	30	
Pentachlorophenol	50.00000	51.34250	ng	3	20	
Phenanthrene	50.00000	58.29550	ng	17	30	
Anthracene	50.00000	58.90140	ng	18	30	
Carbazole	50.00000	41.92130	ng	-16	30	

+=high bias m=manual integration v=ICV

20 11/30/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : 50ug/mL
Seqnum : 534481550015 Filename : wkt15 Injected : 29-NOV-2004 17:48
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS2062

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Di-n-butylphthalate	50.00000	58.31040	ng	17	30	
Fluoranthene	50.00000	56.68090	ng	13	20	
Benzidine	50.00000	146.1556	ng	192	40	v+ *** M
Pyrene	50.00000	53.24730	ng	6	30	
Butylbenzylphthalate	50.00000	54.45980	ng	9	30	
3,3'-Dichlorobenzidine	50.00000	54.71540	ng	9	40	
Benzo(a)anthracene	50.00000	52.50990	ng	5	30	
bis(2-Ethylhexyl)phthalate	50.00000	58.62170	ng	17	30	
Chrysene	50.00000	54.87170	ng	10	30	
Di-n-octylphthalate	50.00000	51.91360	ng	4	20	
Benzo(b)fluoranthene	50.00000	45.95830	ng	-8	30	
Benzo(k)fluoranthene	50.00000	58.94260	ng	18	30	
Benzo(a)pyrene	50.00000	56.79210	ng	14	20	
Indeno(1,2,3-cd)pyrene	50.00000	53.86060	ng	8	30	
Dibenz(a,h)anthracene	50.00000	57.34640	ng	15	30	
Benzo(g,h,i)perylene	50.00000	49.93590	ng	0	30	
2-Fluorophenol	50.00000	52.12560	ng	4	30	
Phenol-d5	50.00000	52.01270	ng	4	30	
Nitrobenzene-d5	50.00000	53.45110	ng	7	30	
2-Fluorobiphenyl	50.00000	58.45750	ng	17	30	
2,4,6-Tribromophenol	50.00000	50.16240	ng	0	30	
Terphenyl-d14	50.00000	51.00920	ng	2	30	

ISTD (CCV=wkt04)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	341343	289894	-15.07	6.93	6.94	0.01
Naphthalene-d8	1193108	1031042	-13.58	8.43	8.43	0.00
Acenaphthene-d10	786378	690773	-12.16	10.56	10.57	0.01
Phenanthrene-d10	1427871	1208741	-15.35	12.38	12.38	0.00
Chrysene-d12	1306789	1093061	-16.36	15.72	15.72	0.00
Perylene-d12	1138650	879010	-22.80	18.37	18.37	0.00

11/30

+=high bias m=manual integration v=ICV
Page 2 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534483105002
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wku02
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 12:02
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5171	0.5376	50.00000	51.98810	ng	4	30	0.0500	
Pyridine	0.8286	0.8630	50.00000	52.07470	ng	4	30	0.0500	m
Phenol	1.2970	1.2730	50.00000	49.07700	ng	-2	20	0.0500	
Aniline	0.5594	1.0357	50.00000	92.57110	ng	85	30	0.0500	c+ rsd
bis(2-Chloroethyl)ether	0.8432	0.7966	50.00000	47.23970	ng	-6	30	0.0500	
2-Chlorophenol	1.2650	1.3100	50.00000	51.78010	ng	4	30	0.0500	
1,3-Dichlorobenzene	1.4140	1.4498	50.00000	51.26440	ng	3	30	0.0500	
1,4-Dichlorobenzene	1.3935	1.4508	50.00000	52.05750	ng	4	20	0.0500	
Benzyl alcohol	0.7621	0.7343	50.00000	48.17030	ng	-4	30	0.0500	
1,2-Dichlorobenzene	1.3170	1.3442	50.00000	51.03480	ng	2	30	0.0500	
2-Methylphenol	0.7884	0.7944	50.00000	50.38220	ng	1	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9347	1.9656	50.00000	50.79870	ng	2	30	0.0500	
4-Methylphenol	1.2756	1.1995	50.00000	47.01700	ng	-6	30	0.0500	
N-Nitroso-di-n-propylamine	0.6147	0.6007	50.00000	48.86220	ng	-2	30	0.0500	
Hexachloroethane	0.5859	0.6106	50.00000	52.10240	ng	4	30	0.0500	
Nitrobenzene	0.2895	0.3089	50.00000	53.35680	ng	7	30	0.0500	
Isophorone	0.6176	0.6705	50.00000	54.28560	ng	9	30	0.0500	
2-Nitrophenol	0.2399	0.2513	50.00000	52.35570	ng	5	20	0.0500	
2,4-Dimethylphenol	0.2460	0.2548	50.00000	51.79720	ng	4	30	0.0500	
bis(2-Chloroethoxy)methane	0.3755	0.3891	50.00000	51.80880	ng	4	30	0.0500	
Benzoic acid	0.1204	0.2094	50.00000	66.08340	ng	32	40	0.0500	!c+ m
2,4-Dichlorophenol	0.3259	0.3571	50.00000	54.77910	ng	10	20	0.0500	
1,2,4-Trichlorobenzene	0.3901	0.4231	50.00000	54.22400	ng	8	30	0.0500	
Naphthalene	0.9588	1.0094	50.00000	52.63820	ng	5	30	0.0500	
4-Chloroaniline	0.3955	0.4300	50.00000	54.35930	ng	9	30	0.0500	
Hexachlorobutadiene	0.2538	0.2778	50.00000	54.72010	ng	9	20	0.0500	
4-Chloro-3-methylphenol	0.2916	0.3094	50.00000	53.04680	ng	6	20	0.0500	
2-Methylnaphthalene	0.7047	0.7473	50.00000	53.02330	ng	6	30	0.0500	
Hexachlorocyclopentadiene	0.2691	0.2387	50.00000	44.34910	ng	-11	40	0.0500	
2,4,6-Trichlorophenol	0.4174	0.4822	50.00000	57.76090	ng	16	20	0.0500	
2,4,5-Trichlorophenol	0.4131	0.4829	50.00000	58.43950	ng	17	30	0.0500	
2-Chloronaphthalene	0.9597	1.0704	50.00000	55.76770	ng	12	30	0.0500	
2-Nitroaniline	0.2725	0.2983	50.00000	54.73920	ng	9	30	0.0500	
Dimethylphthalate	1.4454	1.5611	50.00000	54.00280	ng	8	30	0.0500	
2,6-Dinitrotoluene	0.3325	0.3807	50.00000	57.24880	ng	14	30	0.0500	
Acenaphthylene	1.5509	1.7619	50.00000	56.80130	ng	14	30	0.0500	
3-Nitroaniline	0.2762	0.3232	50.00000	58.50890	ng	17	30	0.0500	
Acenaphthene	0.9080	0.9836	50.00000	54.16460	ng	8	20	0.0500	
2,4-Dinitrophenol	0.2094	0.1583	50.00000	43.06480	ng	-14	40	0.0500	
4-Nitrophenol	0.1725	0.1874	50.00000	54.33810	ng	9	40	0.0500	
Dibenzofuran	1.4121	1.5494	50.00000	54.86020	ng	10	30	0.0500	
2,4-Dinitrotoluene	0.4372	0.4645	50.00000	53.11290	ng	6	30	0.0500	
Diethylphthalate	1.4158	1.5947	50.00000	56.31850	ng	13	30	0.0500	
Fluorene	1.1689	1.2257	50.00000	52.42880	ng	5	30	0.0500	
4-Chlorophenyl-phenylether	0.6440	0.6904	50.00000	53.60370	ng	7	40	0.0500	
4-Nitroaniline	0.2328	0.2667	50.00000	50.91340	ng	2	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

12/01/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534483105002
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wku02
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 12:02
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1541	0.1402	50.00000	45.47180	ng	-9	30	0.0500	
N-Nitrosodiphenylamine	0.4385	0.4741	50.00000	54.05880	ng	8	20	0.0500	
Azobenzene	0.6056	0.5730	50.00000	47.30470	ng	-5	30	0.0500	
4-Bromophenyl-phenylether	0.2350	0.2528	50.00000	53.79440	ng	8	30	0.0500	
Hexachlorobenzene	0.2814	0.3043	50.00000	54.07940	ng	8	30	0.0500	
Pentachlorophenol	0.1825	0.1846	50.00000	50.58240	ng	1	20	0.0500	
Phenanthrene	0.9302	0.9883	50.00000	53.12170	ng	6	30	0.0500	
Anthracene	0.9223	0.9868	50.00000	53.49970	ng	7	30	0.0500	
Carbazole	0.6947	0.6904	50.00000	49.69430	ng	-1	30	0.0500	
Di-n-butylphthalate	1.4234	1.5680	50.00000	55.07950	ng	10	30	0.0500	
Fluoranthene	1.1113	1.1936	50.00000	53.70380	ng	7	20	0.0500	
Benzidine	0.0663	0.0163	50.00000	12.29310	ng	-75	40	0.0500	c- crf
Pyrene	1.2937	1.3840	50.00000	53.48820	ng	7	30	0.0500	
Butylbenzylphthalate	0.7905	0.8516	50.00000	53.86340	ng	8	30	0.0500	
3,3'-Dichlorobenzidine	0.3517	0.4213	50.00000	59.88570	ng	20	40	0.0500	
Benzo(a)anthracene	1.2601	1.2335	50.00000	48.94440	ng	-2	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0459	1.0442	50.00000	49.92020	ng	0	30	0.0500	
Chrysene	1.1081	1.2145	50.00000	54.80000	ng	10	30	0.0500	
Di-n-octylphthalate	2.4686	2.3493	50.00000	47.58380	ng	-5	20	0.0500	
Benzo(b)fluoranthene	1.5347	1.6095	50.00000	44.58020	ng	-11	30	0.0500	m
Benzo(k)fluoranthene	1.2235	1.3113	50.00000	53.58630	ng	7	30	0.0500	
Benzo(a)pyrene	1.1920	1.2118	50.00000	50.83040	ng	2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2066	1.3925	50.00000	57.70170	ng	15	30	0.0500	
Dibenz(a,h)anthracene	0.9726	1.1073	50.00000	56.92400	ng	14	30	0.0500	
Benzo(g,h,i)perylene	0.9922	1.1137	50.00000	56.12180	ng	12	30	0.0500	
2-Fluorophenol	1.0274	1.0940	50.00000	53.24220	ng	6	30	0.0500	
Phenol-d5	1.2147	1.2336	50.00000	50.77680	ng	2	30	0.0500	
Nitrobenzene-d5	0.3163	0.3354	50.00000	53.02840	ng	6	30	0.0500	
2-Fluorobiphenyl	1.1694	1.3196	50.00000	56.42070	ng	13	30	0.0500	
2,4,6-Tribromophenol	0.2764	0.3031	50.00000	54.83040	ng	10	30	0.0500	
Terphenyl-d14	1.0075	1.0326	50.00000	51.24430	ng	2	30	0.0500	

12/01/04

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534483105011
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wku11
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 17:16
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5171	0.5251	50.00000	50.77710	ng	2	30	0.0500	m
Pyridine	0.8286	0.8502	50.00000	51.30320	ng	3	30	0.0500	
Phenol	1.2970	1.2992	50.00000	50.08360	ng	0	20	0.0500	
Aniline	0.5594	1.0525	50.00000	94.07590	ng	88	30	0.0500	c+ rsd
bis(2-Chloroethyl)ether	0.8432	0.8406	50.00000	49.84680	ng	0	30	0.0500	
2-Chlorophenol	1.2650	1.3095	50.00000	51.75740	ng	4	30	0.0500	
1,3-Dichlorobenzene	1.4140	1.4354	50.00000	50.75530	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.3935	1.4579	50.00000	52.31210	ng	5	20	0.0500	
Benzyl alcohol	0.7621	0.7568	50.00000	49.64700	ng	-1	30	0.0500	
1,2-Dichlorobenzene	1.3170	1.3643	50.00000	51.79700	ng	4	30	0.0500	
2-Methylphenol	0.7884	0.8235	50.00000	52.22510	ng	4	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9347	2.0838	50.00000	53.85220	ng	8	30	0.0500	
4-Methylphenol	1.2756	1.2617	50.00000	49.45480	ng	-1	30	0.0500	
N-Nitroso-di-n-propylamine	0.6147	0.6051	50.00000	49.21520	ng	-2	30	0.0500	
Hexachloroethane	0.5859	0.6205	50.00000	52.95340	ng	6	30	0.0500	
Nitrobenzene	0.2895	0.2971	50.00000	51.32070	ng	3	30	0.0500	
Isophorone	0.6176	0.6363	50.00000	51.51700	ng	3	30	0.0500	
2-Nitrophenol	0.2399	0.2435	50.00000	50.74770	ng	1	20	0.0500	
2,4-Dimethylphenol	0.2460	0.2496	50.00000	50.74720	ng	1	30	0.0500	
bis(2-Chloroethoxy)methane	0.3755	0.3955	50.00000	52.66760	ng	5	30	0.0500	
Benzoic acid	0.1204	0.1830	50.00000	59.42940	ng	19	40	0.0500	
2,4-Dichlorophenol	0.3259	0.3443	50.00000	52.81890	ng	6	20	0.0500	
1,2,4-Trichlorobenzene	0.3901	0.4107	50.00000	52.63160	ng	5	30	0.0500	
Naphthalene	0.9588	1.0249	50.00000	53.44800	ng	7	30	0.0500	
4-Chloroaniline	0.3955	0.4303	50.00000	54.38820	ng	9	30	0.0500	
Hexachlorobutadiene	0.2538	0.2688	50.00000	52.94740	ng	6	20	0.0500	
4-Chloro-3-methylphenol	0.2916	0.2988	50.00000	51.24110	ng	2	20	0.0500	
2-Methylnaphthalene	0.7047	0.7493	50.00000	53.16910	ng	6	30	0.0500	
Hexachlorocyclopentadiene	0.2691	0.2248	50.00000	41.76900	ng	-16	40	0.0500	
2,4,6-Trichlorophenol	0.4174	0.4639	50.00000	55.57380	ng	11	20	0.0500	
2,4,5-Trichlorophenol	0.4131	0.4861	50.00000	58.83320	ng	18	30	0.0500	
2-Chloronaphthalene	0.9597	1.0642	50.00000	55.44480	ng	11	30	0.0500	
2-Nitroaniline	0.2725	0.2852	50.00000	52.32960	ng	5	30	0.0500	
Dimethylphthalate	1.4454	1.5446	50.00000	53.43100	ng	7	30	0.0500	
2,6-Dinitrotoluene	0.3325	0.3715	50.00000	55.87140	ng	12	30	0.0500	
Acenaphthylene	1.5509	1.7450	50.00000	56.25600	ng	13	30	0.0500	
3-Nitroaniline	0.2762	0.3100	50.00000	56.13070	ng	12	30	0.0500	
Acenaphthene	0.9080	1.0050	50.00000	55.34560	ng	11	20	0.0500	
2,4-Dinitrophenol	0.2094	0.1456	50.00000	40.48080	ng	-19	40	0.0500	
4-Nitrophenol	0.1725	0.1677	50.00000	48.63040	ng	-3	40	0.0500	
Dibenzofuran	1.4121	1.5619	50.00000	55.30610	ng	11	30	0.0500	
2,4-Dinitrotoluene	0.4372	0.4603	50.00000	52.63970	ng	5	30	0.0500	
Diethylphthalate	1.4158	1.5707	50.00000	55.47130	ng	11	30	0.0500	
Fluorene	1.1689	1.2896	50.00000	55.16350	ng	10	30	0.0500	
4-Chlorophenyl-phenylether	0.6440	0.7200	50.00000	55.89830	ng	12	40	0.0500	
4-Nitroaniline	0.2328	0.2501	50.00000	47.92760	ng	-4	30	0.0500	

+=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

24 12/01/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534483105011
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wku11
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 17:16
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1541	0.1374	50.00000	44.58830	ng	-11	30	0.0500	
N-Nitrosodiphenylamine	0.4385	0.4744	50.00000	54.09290	ng	8	20	0.0500	
Azobenzene	0.6056	0.5951	50.00000	49.13190	ng	-2	30	0.0500	
4-Bromophenyl-phenylether	0.2350	0.2475	50.00000	52.65490	ng	5	30	0.0500	
Hexachlorobenzene	0.2814	0.3006	50.00000	53.41600	ng	7	30	0.0500	
Pentachlorophenol	0.1825	0.1804	50.00000	49.40700	ng	-1	20	0.0500	
Phenanthrene	0.9302	1.0112	50.00000	54.35290	ng	9	30	0.0500	
Anthracene	0.9223	1.0011	50.00000	54.27270	ng	9	30	0.0500	
Carbazole	0.6947	0.6667	50.00000	47.98420	ng	-4	30	0.0500	
Di-n-butylphthalate	1.4234	1.6125	50.00000	56.64360	ng	13	30	0.0500	
Fluoranthene	1.1113	1.1963	50.00000	53.82650	ng	8	20	0.0500	
Benzidine	0.0663	0.0120	50.00000	9.014500	ng	-82	40	0.0500	c- crf
Pyrene	1.2937	1.3853	50.00000	53.54020	ng	7	30	0.0500	
Butylbenzylphthalate	0.7905	0.8577	50.00000	54.25060	ng	9	30	0.0500	
3,3'-Dichlorobenzidine	0.3517	0.4327	50.00000	61.51480	ng	23	40	0.0500	
Benzo(a)anthracene	1.2601	1.2808	50.00000	50.82050	ng	2	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0459	1.1413	50.00000	54.56030	ng	9	30	0.0500	
Chrysene	1.1081	1.1728	50.00000	52.91710	ng	6	30	0.0500	
Di-n-octylphthalate	2.4686	2.3873	50.00000	48.35280	ng	-3	20	0.0500	
Benzo(b)fluoranthene	1.5347	1.5882	50.00000	44.02080	ng	-12	30	0.0500	
Benzo(k)fluoranthene	1.2235	1.3071	50.00000	53.41680	ng	7	30	0.0500	
Benzo(a)pyrene	1.1920	1.2003	50.00000	50.34690	ng	1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2066	1.3595	50.00000	56.33380	ng	13	30	0.0500	
Dibenz(a,h)anthracene	0.9726	1.0827	50.00000	55.65800	ng	11	30	0.0500	
Benzo(g,h,i)perylene	0.9922	1.0981	50.00000	55.33370	ng	11	30	0.0500	
2-Fluorophenol	1.0274	1.0670	50.00000	51.92760	ng	4	30	0.0500	
Phenol-d5	1.2147	1.2491	50.00000	51.41330	ng	3	30	0.0500	
Nitrobenzene-d5	0.3163	0.3233	50.00000	51.11030	ng	2	30	0.0500	
2-Fluorobiphenyl	1.1694	1.3249	50.00000	56.64850	ng	13	30	0.0500	
2,4,6-Tribromophenol	0.2764	0.2955	50.00000	53.46230	ng	7	30	0.0500	
Terphenyl-d14	1.0075	1.0348	50.00000	51.35390	ng	3	30	0.0500	

12/01/04

+=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 30-NOV-2004
Sequence: 534483105 (wku)
Instrument ID: MSBNA04

CCV Filename: wku02
Date Analyzed: 30-NOV-2004
Time Analyzed: 12:02

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	307244	6.92	1026952	8.41	676275	10.55	1238851	12.36	1090499	15.70	970586	18.33
LOWER LIMIT	153622	6.42	513476	7.91	338138	10.05	619426	11.86	545250	15.20	485293	17.83
UPPER LIMIT	614488	7.42	2053904	8.91	1352550	11.05	2477702	12.86	2180998	16.20	1941172	18.83

TYPE	SAMPLE	#												
CCV		002	307244	6.92	1026952	8.41	676275	10.55	1238851	12.36	1090499	15.70	970586	18.33
BS	QC273686	003	252576	6.92	822571	8.42	527959	10.55	953078	12.36	878013	15.69	789939	18.33
BSD	QC273687	004	220373	6.92	730587	8.41	452116	10.54	815464	12.36	745039	15.69	679231	18.31
BLANK	QC274070	005	221146	6.91	752051	8.40	470360	10.53	833424	12.35	762469	15.67	652096	18.30
LCS	QC274071	006	213883	6.91	715785	8.41	463154	10.54	822772	12.35	741721	15.68	656271	18.31
BLANK	QC273985	007	267939	6.92	905628	8.41	582907	10.54	1038187	12.35	946378	15.68	803414	18.31
BS	QC273986	008	268242	6.92	887760	8.41	584744	10.54	1034263	12.35	940846	15.68	790373	18.30
BSD	QC273987	009	255782	6.91	882140	8.40	573643	10.54	994726	12.35	939895	15.67	767582	18.30

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 30-NOV-2004
Sequence: 534483105 (wku)
Instrument ID: MSBNA04

CCV Filename: wku11
Date Analyzed: 30-NOV-2004
Time Analyzed: 17:16

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	281299	6.92	970655	8.42	629730	10.55	1139563	12.36	1002740	15.70	878131	18.33
LOWER LIMIT	140650	6.42	485328	7.92	314865	10.05	569782	11.86	501370	15.20	439066	17.83
UPPER LIMIT	562598	7.42	1941310	8.92	1259460	11.05	2279126	12.86	2005480	16.20	1756262	18.83

TYPE	SAMPLE	#												
CCV		011	281299	6.92	970655	8.42	629730	10.55	1139563	12.36	1002740	15.70	878131	18.33
MSS	176248-003	012	236469	6.91	793444	8.40	509995	10.54	887673	12.35	821141	15.67	699042	18.31
MS	QC274072	013	219705	6.92	740339	8.41	461403	10.54	820036	12.36	712040	15.69	598468	18.31
MSD	QC274073	014	243216	6.92	818359	8.41	518140	10.54	922754	12.36	804228	15.69	651792	18.32
SAMPLE	176203-001	015	308761	6.91	1063337	8.41	685414	10.54	1191188	12.35	1102462	15.67	929770	18.31
SAMPLE	176203-002	016	274001	6.91	926468	8.40	583599	10.54	964078	12.35	779299	15.67	638048	18.30
SAMPLE	176180-009	017	297851	6.92	1004758	8.41	660845	10.54	1183040	12.35	1073005	15.68	883424	18.31
SAMPLE	176178-004	018	297158	6.92	1009380	8.41	636647	10.54	1079433	12.36	857963	15.69	630634	18.32
SAMPLE	176153-001	019	238708	6.91	745889	8.42	488442	10.54	881295	12.35	765386	15.67	634708	18.30
SAMPLE	176153-002	020	255559	6.92	805169	8.41	493147	10.55	757224	12.37	566179	15.72	401816*	18.36
SAMPLE	176153-004	021	254968	6.92	833350	8.41	529717	10.54	919854	12.35	764133	15.67	590076	18.30
SAMPLE	176215-002	022	297943	6.92	1001323	8.41	618660	10.54	1059035	12.36	844870	15.69	589784	18.31
SAMPLE	176215-003	023	304793	6.91	1014216	8.41	636193	10.54	1047755	12.36	764852	15.69	439820	18.32
SAMPLE	176215-004	024	297248	6.92	966407	8.41	540925	10.56	764836	12.41	480364*	15.73	172027*	18.34
SAMPLE	176215-005	025	283662	6.92	961101	8.41	601622	10.54	1040918	12.36	779188	15.69	481583	18.33
SAMPLE	176178-002	026	326085	6.92	1068945	8.41	663259	10.55	1098459	12.38	741845	15.71	352378*	18.33
SAMPLE	176185-001	027	254664	6.91	845340	8.41	540742	10.54	943210	12.35	733608	15.69	480653	18.32
SAMPLE	176008-003	028	259117	6.92	861183	8.42	553849	10.54	939670	12.35	658702	15.68	397663*	18.31
SAMPLE	176008-006	029	238840	6.92	782674	8.41	490683	10.54	812362	12.35	490921*	15.69	251553*	18.32
SAMPLE	176216-005	030	284802	6.92	924449	8.41	565897	10.54	977565	12.36	630699	15.68	345867*	18.31

* = Outside QC Limits

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 534481550 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 29-NOV-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	wkt01	TUN	DFTPP 50NG			29-NOV-2004 09:50	1.0					1	
002	wkt02	TUN	DFTPP 50NG			29-NOV-2004 10:12	1.0					1	
003	wkt03	CCV				29-NOV-2004 10:32	1.0	1.0	4		1	2 cc+	
004	wkt04	CCV				29-NOV-2004 11:18	1.0	1.0	4		1	2 cc+	
005	wkt05	ICAL	2ug/mL			29-NOV-2004 11:53	1.0	1.0				3	
006	wkt06	ICAL	5ug/mL			29-NOV-2004 12:28	1.0	1.0				4	
007	wkt07	ICAL	10ug/mL			29-NOV-2004 13:04	1.0	1.0				5	
008	wkt08	ICAL	20ug/mL			29-NOV-2004 13:39	1.0	1.0				6	
009	wkt09	ICAL	50ug/mL			29-NOV-2004 14:15	1.0	1.0				2	
010	wkt10	ICAL	80ug/mL			29-NOV-2004 14:51	1.0	1.0				7	
011	wkt11	ICAL	100ug/mL			29-NOV-2004 15:26	1.0	1.0				8	
012	wkt12	ICAL	120ug/mL			29-NOV-2004 16:02	1.0	1.0				9	
013	wkt13	ICAL	160ug/mL			29-NOV-2004 16:37	1.0	1.0				10	
014	wkt14	ICV	50ug/mL			29-NOV-2004 17:13	1.0	1.0			1	11	
015	wkt15	ICV	50ug/mL			29-NOV-2004 17:48	1.0	1.0	1		1	12	
016	wkt16	TUN	DFTPP 50NG			29-NOV-2004 18:17	1.0	1.0				13	
017	wkt17	TUN	DFTPP 50NG			29-NOV-2004 18:28	1.0	1.0				13	
018	wkt18	CCV				29-NOV-2004 18:46	1.0	1.0	2		1	2	
019	wkt19	X	PEM 04WS1624			29-NOV-2004 19:22	1.0						
020	wkt20	BLANK	QC273685	96838	Water	29-NOV-2004 19:58	1.0	0.001	2		1	14	
021	wkt21	BS	QC273686	96838	Water	29-NOV-2004 20:34	1.0	0.001	2		1	14	
022	wkt22	BSD	QC273687	96838	Water	29-NOV-2004 21:10	1.0	0.001	2		1	14	
023	wkt23	BS	QC273147	96706	Water	29-NOV-2004 21:47	1.0	0.01			1	14	
024	wkt24	BSD	QC273148	96706	Water	29-NOV-2004 22:22	1.0	0.01			1	14	
025	wkt25	SAMPLE	176050-001	96706	TCLP L	29-NOV-2004 22:59	1.0	0.009524			1	14	
026	wkt26	SAMPLE	176180-009	96838	Water	29-NOV-2004 23:34	1.0	0.0009709			1	14	
027	wkt27	SAMPLE	176178-004	96905	Water	30-NOV-2004 00:11	1.0	0.0009524			1	14	
028	wkt28	SAMPLE	176178-006	96905	Water	30-NOV-2004 00:46	1.0	0.001176			1	14	
029	wkt29	SAMPLE	176178-002	96905	Water	30-NOV-2004 01:22	1.0	0.001176			1	14	
030	wkt30	SAMPLE	176153-015	96707	Water	30-NOV-2004 01:58	2.0	0.0009524	1		1	14	

Stds used: 1=04WS15543 2=04WS1859 3=04WS1856 4=04WS1908 5=04WS1857 6=04WS1858 7=04WS1860 8=04WS1923 9=04WS1861 10=04WS1862 11=04WS2061 12=04WS2062 13=04WS1543 14=04SS118

Flags used: +=high bias <<t=out of clock cc=CCV CCC failure

8270 Calibrations:
* ICAL: Aniline / Benzidine failed %RSD or r^2 = NT
* ICV: Benzidine ↑ %D = NT & 3-Nitroaniline ↑ warning
- CCV WKT18 = Aniline / Benzidine failed = NT

Analyst: [illegible] Date: 11/30/04

Page 1 of 2

[illegible] 11/30/04

(-3) MB/LCS/MS/MSD

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 534483105 Instrument: MSBNA04 HP GCMS BNA 04 Begun: 30-NOV-2004
Analytical Method: EPA 8270C SOP Version: 8270C_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	wku01	TUN	DFTPP 50NG			30-NOV-2004 11:45	1.0					1	
002	wku02	CCV				30-NOV-2004 12:02	1.0	1.0	2		1	2	
003	wku03	BS	QC273686 (7)	96838	Water	30-NOV-2004 12:45	1.0	0.001	2	1	1	3	
004	wku04	BSD	QC273687	96838	Water	30-NOV-2004 13:20	1.0	0.001	2	2	1	3	
005	wku05	BLANK	QC274070 (6)	96932	Soil	30-NOV-2004 13:55	1.0	0.03304	2		1	3	
006	wku06	LCS	QC274071	96932	Soil	30-NOV-2004 14:30	1.0	0.03306	2	2	1	3	
007	wku07	BLANK	QC273985 (6)	96911	Water	30-NOV-2004 15:07	1.0	0.01	1	2	1	3 RR #1,2 SSL	
008	wku08	BS	QC273986	96911	Water	30-NOV-2004 15:43	1.0	0.01			1	3 >5% spike rule	
009	wku09	BSD	QC273987	96911	Water	30-NOV-2004 16:18	1.0	0.01		3	1	3 spk	
010	wku10	TUN	DFTPP 50NG			30-NOV-2004 17:00	1.0	1.0				4	
011	wku11	CCV				30-NOV-2004 17:16	1.0	1.0	2		1	2	
012	wku12	MSS	176248-003	96932	Soil	30-NOV-2004 17:51	1.0	0.03356	1		1	3	
013	wku13	MS	QC274072	96932	Soil	30-NOV-2004 18:27	1.0	0.03316	2	1	1	3	
014	wku14	MSD	QC274073	96932	Soil	30-NOV-2004 19:04	1.0	0.03323	2	1	1	3	
015	wku15	SAMPLE	176203-001	96905	Water	30-NOV-2004 19:40	1.0	0.0009434			1	3	
016	wku16	SAMPLE	176203-002	96905	Water	30-NOV-2004 20:16	1.0	0.0009434			1	3	
017	wku17	SAMPLE	176180-009	96838	Water	30-NOV-2004 20:52	1.0	0.0009709			1	3	
018	wku18	SAMPLE	176178-004	96905	Water	30-NOV-2004 21:28	1.0	0.0009524			1	3	
019	wku19	SAMPLE	176153-001	96880	Soil	30-NOV-2004 22:05	1.0	0.03321			1	3	
020	wku20	SAMPLE	176153-002	96880	Soil	30-NOV-2004 22:41	1.0	0.03328			1	3 RR 2X #6,7,3	
021	wku21	SAMPLE	176153-004	96880	Soil	30-NOV-2004 23:17	1.0	0.03298			1	3	
022	wku22	SAMPLE	176215-002	96905	Water	30-NOV-2004 23:53	1.0	0.0009524			1	3	
023	wku23	SAMPLE	176215-003	96905	Water	01-DEC-2004 00:30	1.0	0.0009434			1	3	
024	wku24	SAMPLE	176215-004	96905	Water	01-DEC-2004 01:06	1.0	0.0009709			1	3 RR 10X per chrom	
025	wku25	SAMPLE	176215-005	96905	Water	01-DEC-2004 01:42	1.0	0.0009615		1	1	3 #6 SSL	
026	wku26	SAMPLE	176178-002	96905	Water	01-DEC-2004 02:19	1.0	0.001176			1	3	
027	wku27	SAMPLE	176185-001	96880	Soil	01-DEC-2004 02:56	1.0	0.03353			1	3	
028	wku28	SAMPLE	176008-003	96880	Soil	01-DEC-2004 03:32	25.0	0.03353			1	3	
029	wku29	SAMPLE	176008-006	96880	Soil	01-DEC-2004 04:07	10.0	0.0331			1	3	
030	wku30	SAMPLE	176216-005	96932	Soil	01-DEC-2004 04:44	10.0	0.03332			1	3 RR w/ Benzoic	

WKU31/32/33 ENDBLANKS

Stds used: 1=04WS15543 2=04WS1859 3=04SS118 4=04WS1543

Flags used: spk=5% spike rule

* ICAL = Aniline / Benzidine failed = (NT)
* ICV = Aniline ↑ = (NT)
  = 3-Nitroaniline ↑ warning limit
* CCV WKU02 = Aniline / Benzidine failed = (NT)
  = Benzoic Acid ↑ warning limit
  CCV WKU11 = Aniline / Benzidine failed = (NT)

Analyst: _____ Date: _____

Page 1 of 2

12/01/04

REPORTING SUMMARY FOR 176248 8270 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | NPBCDDBDMBMNHNINDBBDTNCHCMHTTCNDADNADNDDDFCNDNABHPPADFPBDBCBDBBBIDNHICLCCZCEIENCOSTMZECCALC4TCCCNOMCNOCNTBNELPONNZPCCHNNLYBBZHINZZZNBSESPBBLBPSPSLL2OPPAC PBPALBMNCPPP2PNT2NPPFTP PP24SBPLPATBARPZARSOBKAPAMN2HZZAZH2HPEBPH2CE21HNU3PPP22HAHP2APP2H H2H EA6PZEBB NHP P DAY2PFFP1H | Inst ID Analyzed | IDF |
|---|---|---

Curtis & Tompkins Laboratories Sample Preparation Summary 29-NOV-2004 12:58

Batch Number : 96932
Date Extracted: 29-NOV-2004
Extracted by : Brook N. Buswell
Prep Method : 3550

Analysis : N/A
Bgroup : MSSVOA
Units : g
Clean-up :

Spike #1 ID : 04WS2188B
Spike #2 ID : 04WS2203A
Spike #3 ID : 04WS2192D

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176089-013			Tetra Tech FW, INC	Soil	30.25	g	1	0.033058	1		1	0	0	8270		
176168-005			Espana Geotechnical	Soil	29.91	g	1	0.033434	1		1	0	0	8100		
176168-006			Espana Geotechnical	Soil	30.25	g	1	0.033058	1		1	0	0	8100		
176168-011			Espana Geotechnical	Soil	30.35	g	1	0.032949	1		1	0	0	8100		
176168-012			Espana Geotechnical	Soil	30.27	g	1	0.033036	1		1	0	0	8100		
176168-013			Espana Geotechnical	Soil	30.17	g	1	0.033146	1		1	0	0	8100		
176168-014			Espana Geotechnical	Soil	30.23	g	1	0.033080	1		1	0	0	8100		
176168-015			Espana Geotechnical	Soil	30.12	g	1	0.033201	1		1	0	0	8100		
176168-016			Espana Geotechnical	Soil	30.1	g	1	0.033223	1		1	0	0	8100		
176188-001			Espana Geotechnical	Soil	30.07	g	1	0.033256	1		1	0	0	8100		
176188-002			Espana Geotechnical	Soil	30.37	g	1	0.032927	1		1	0	0	8100		
176188-005			Espana Geotechnical	Soil	30.08	g	1	0.033245	1		1	0	0	8100		
176188-006			Espana Geotechnical	Soil	30.36	g	1	0.032938	1		1	0	0	8100		
176188-009			Espana Geotechnical	Soil	30.03	g	1	0.033300	1		1	0	0	8100		
176188-010			Espana Geotechnical	Soil	30.06	g	1	0.033267	1		1	0	0	8100		
176216-005			TRC Environmental Solutions, I	Soil	30.01	g	1	0.033322	1		1	0	0	8270		
176248-003			Treadwell & Rollo	Soil	29.8	g	1	0.033557	1		1	0	0	8270	mss	
QC274070	MB			Soil	30.27	g	1	0.033036	1		1	0	0	MSSVOA		
QC274071	LCS			Soil	30.25	g	1	0.033058	1		1	1	1	MSSVOA		
QC274072	MS	of 176248-003		Soil	30.16	g	1	0.033156	1		1	1	1	MSSVOA		
QC274073	MSD	of 176248-003		Soil	30.09	g	1	0.033234	1		1	1	1	MSSVOA		

Prep Chemist: _____ Reviewed By: Jennifer A Oller Date: 11/29/04

Relinquished By: _____ Received By: _____ Date: 12/1/04

Curtis & Tompkins, Ltd. **MSSVOA SOIL PREP LOG** BK 2030 page 19 of 100

LIMS Batch No: 96932
LIMS Analysis MSSVOA
Extracted by: [illegible]
Date Extracted: 11/29/04

Extraction Method:
- ☑ EPA 3550b Sonication
- ☐ EPA 3540c Soxhlet
- ☐ Other _____

Cleanup Method (if necessary):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel
- ☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
176089-013	30.25	1.0		
176168-005	29.91			
-006	30.25			
-011	30.35			
-012	30.27			
-013	30.17			
-014	30.23			
-015	30.12			
-016	30.10			
176188-001	30.07			
-002	30.37			
-005	30.08			
-006	30.36			
-009	30.03			
-010	30.06			
176216-005	30.04 BO 11/29/04			big snyder peak
176248-003	29.80			MSS
MB QC274070	30.27			
LCS 1	30.25			
MS 2	30.16			176248-003
MSD 3	30.09			
		BO 11/29/04		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM440284 21	BO 11/29/04
Samples were dried with baked, CH_2Cl_2-rinsed granular Na_2SO_4	EM441354 34	
1.0 mL of surrogate solution was added to all samples	04WS2188B	
1.0, 1.0 mL of matrix spiking solution was added to all spikes	04WS2203A, 04WS2192D	
≥100mL 1:1 CH_2Cl_2:Acetone was added to all: CH_2Cl_2	EM44144	
Acetone	EM44233	
Samples were: ☑ sonicated 3 times ☐ soxhlet extractors on at:	✓	
soxhlets off at:	NA	
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	EM441354 34	
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume	✓	
Clean-up (if necessary): ☒ GPC (see GPC run log) ☐ Silica Gel	NA	
Concentrated to final volumes as noted above	✓	

No, N/A BO 11/29/04

BO 11/29/04
Extraction Chemist / Date

Continued from page 1
Continued on page 32

Jennifer Weel 11/29/04
Reviewed by / Date

Project: Soil Acquot B152032

Continued from Page

SAMPLE ID	WEIGHTS	ANALYSIS	COMMENTS
176248-003A	29.80	8270	
MS	30.16		176248-003A
MSD	30.09		
176248-003A	50.23	TEHM	176248-003A
MS	50.21		
MSD	49.89		
176250-010	15.98	8081	3 COMP 1A-3A
-011	15.08		4A-6A
-012	14.97		7A-9A
176249-016	15.02	8081	3 COMP 1A-3A
-017	14.84		MSS 4A-6A
-018	15.10		7A-9A
-019	14.87		10A-12A
-020	14.92		13A-15A
LCS	14.99	8081	CM4402842)
MB	15.01		
MS	14.92	8081	176249-017
MSD	14.92		

Continued on Page

Read and Understood By

Michelle Curtis 11/2-4/04

Signed Date

Project Soil Aliquot BK2032

Continued from Page —

Sample Id	Weight (g)	Analysis	Comments
176188-010A	30.06	8100	MS
MS	29.89	↓	176188-010A
MSD	30.22		↓
LCS	30.25		EM440284 21
MB	30.27		↓

Continued on Page

Michelle Curtis 11/22/04

Signed Date

Read and Understood By

Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05	MSBNA06
Phenol	ug/Kg	10/21/04 51	10/20/04 66	04/16/03 28	10/21/04 50	10/19/04 70	11/02/04 37
2-Chlorophenol	ug/Kg	10/21/04 52	10/20/04 61	04/16/03 22	10/21/04 39	10/19/04 75	11/02/04 69
1,4-Dichlorobenzene	ug/Kg	10/21/04 16	10/20/04 40	04/16/03 26	10/21/04 29	10/19/04 34	11/02/04 36
N-Nitroso-di-n-propylamine	ug/Kg	10/21/04 56	10/20/04 38	04/16/03 20	10/21/04 31	10/19/04 37	11/02/04 33
1,2,4-Trichlorobenzene	ug/Kg	10/21/04 10	10/20/04 36	04/16/03 22	10/21/04 18	10/19/04 30	11/02/04 35
4-Chloro-3-methylphenol	ug/Kg	10/21/04 90	10/20/04 64	04/16/03 35	10/21/04 40	10/19/04 68	11/02/04 71
Acenaphthene	ug/Kg	10/21/04 17	10/20/04 26	04/25/03 14	10/21/04 20	10/19/04 34	11/02/04 31
4-Nitrophenol	ug/Kg	10/21/04 130	10/20/04 47	04/16/03 36	10/21/04 31	10/19/04 66	11/02/04 66
2,4-Dinitrotoluene	ug/Kg	10/21/04 38	10/20/04 26	04/16/03 21	10/21/04 29	10/19/04 34	11/02/04 30
Pentachlorophenol	ug/Kg	10/21/04 100	10/20/04 56	04/16/03 47	10/21/04 87	10/19/04 71	11/02/04 130
Pyrene	ug/Kg	10/21/04 33	10/20/04 30	04/25/03 11	10/21/04 21	10/19/04 34	11/02/04 34
N-Nitrosodimethylamine	ug/Kg	10/21/04 29	10/20/04 25	04/16/03 22	10/21/04 38	10/19/04 36	11/02/04 30
Pyridine	ug/Kg	10/21/04 34	10/20/04 28	04/16/03 21	10/21/04 47	10/19/04 24	11/02/04 45
Aniline	ug/Kg	04/18/03 36	04/16/03 25	04/16/03 35	04/16/03 34	04/18/03 35	
bis(2-Chloroethyl)ether	ug/Kg	10/21/04 20	10/20/04 45	04/16/03 24	10/21/04 26	10/19/04 47	11/02/04 31
1,3-Dichlorobenzene	ug/Kg	10/21/04 21	10/20/04 29	04/16/03 24	10/21/04 25	10/19/04 28	11/02/04 33
Benzyl alcohol	ug/Kg	10/21/04 38	10/20/04 37	04/16/03 18	10/21/04 19	10/19/04 39	11/02/04 33
1,2-Dichlorobenzene	ug/Kg	10/21/04 22	10/20/04 33	04/16/03 25	10/21/04 32	10/19/04 33	11/02/04 35
2-Methylphenol	ug/Kg	10/21/04 60	10/20/04 76	04/16/03 25	10/21/04 59	10/19/04 82	11/02/04 40
bis(2-Chloroisopropyl) ether	ug/Kg	10/21/04 18	10/20/04 40	04/16/03 21	10/21/04 23	10/19/04 39	11/02/04 30
4-Methylphenol	ug/Kg	10/21/04 81	10/20/04 60	04/16/03 25	10/21/04 45	10/19/04 76	11/02/04 44
Hexachloroethane	ug/Kg	10/21/04 53	10/20/04 41	04/16/03 24	10/21/04 23	10/19/04 30	11/02/04 35
Nitrobenzene	ug/Kg	10/21/04 35	10/20/04 32	04/16/03 20	10/21/04 26	10/19/04 39	11/02/04 28
Isophorone	ug/Kg	10/21/04 41	10/20/04 37	04/16/03 18	10/21/04 21	10/19/04 35	11/02/04 47
2-Nitrophenol	ug/Kg	10/21/04 65	10/20/04 71	04/16/03 26	10/21/04 45	10/19/04 61	11/02/04 69
2,4-Dimethylphenol	ug/Kg	10/21/04 79	10/20/04 79	04/16/03 72	10/21/04 58	10/19/04 68	11/02/04 69
Benzoic acid	ug/Kg	04/28/03 49	10/20/04 26	04/16/03 200	10/21/04 56	10/19/04 70	11/02/04 91
bis(2-Chloroethoxy)methane	ug/Kg	10/21/04 17	10/20/04 36	04/16/03 22	10/21/04 22	10/19/04 39	11/02/04 34
2,4-Dichlorophenol	ug/Kg	10/21/04 66	10/20/04 59	04/16/03 25	10/21/04 52	10/19/04 59	11/02/04 51
Naphthalene	ug/Kg	10/21/04 23	10/20/04 30	04/16/03 22	10/21/04 21	10/19/04 36	11/02/04 34
4-Chloroaniline	ug/Kg	10/21/04 11	10/20/04 21	04/16/03 36	10/21/04 16	10/19/04 21	11/02/04 19
Hexachlorobutadiene	ug/Kg	10/21/04 44	10/20/04 34	04/16/03 23	10/21/04 25	10/19/04 28	11/02/04 35
2-Methylnaphthalene	ug/Kg	10/21/04 28	10/20/04 34	04/16/03 24	10/21/04 29	10/19/04 30	11/02/04 38
Hexachlorocyclopentadiene	ug/Kg	10/21/04 31	10/20/04 58	04/16/03 110	10/21/04 40	10/19/04 38	11/02/04 52
2,4,6-Trichlorophenol	ug/Kg	10/21/04 88	10/20/04 55	04/16/03 29	10/21/04 43	10/19/04 59	11/02/04 55
2,4,5-Trichlorophenol	ug/Kg	10/21/04 110	10/20/04 47	04/16/03 33	10/21/04 42	10/19/04 57	11/02/04 58

Curtis & Tompkins Laboratories
MDL Summary for EPA 8270C Soil

Analyte	Units	MSBNA01	MSBNA02	MSBNA03	MSBNA04	MSBNA05	MSBNA06
2-Chloronaphthalene	ug/Kg	10/21/04 20	10/20/04 43	04/16/03 20	10/21/04 20	10/19/04 39	11/02/04 34
2-Nitroaniline	ug/Kg	10/21/04 29	10/20/04 35	04/25/03 8.8	10/21/04 23	10/19/04 49	11/02/04 38
Dimethylphthalate	ug/Kg	10/21/04 20	10/20/04 31	04/16/03 26	10/21/04 17	10/19/04 35	11/02/04 31
Acenaphthylene	ug/Kg	10/21/04 12	10/20/04 22	04/25/03 14	10/21/04 14	10/19/04 28	11/02/04 22
2,6-Dinitrotoluene	ug/Kg	10/21/04 30	10/20/04 16	04/16/03 32	10/21/04 16	10/19/04 33	11/02/04 33
3-Nitroaniline	ug/Kg	10/21/04 38	10/20/04 17	04/25/03 16	10/21/04 26	10/19/04 25	11/02/04 20
2,4-Dinitrophenol	ug/Kg	10/21/04 62	10/20/04 28	04/16/03 200	10/21/04 25	10/19/04 45	11/02/04 31
Dibenzofuran	ug/Kg	10/21/04 15	10/20/04 32	04/16/03 24	10/21/04 16	10/19/04 34	11/02/04 36
Diethylphthalate	ug/Kg	10/21/04 15	10/20/04 29	04/16/03 27	10/21/04 21	10/19/04 38	11/02/04 32
Fluorene	ug/Kg	10/21/04 20	10/20/04 31	04/25/03 15	10/21/04 20	10/19/04 38	11/02/04 30
4-Chlorophenyl-phenylether	ug/Kg	10/21/04 28	10/20/04 32	04/16/03 25	10/21/04 17	10/19/04 36	11/02/04 36
4-Nitroaniline	ug/Kg	10/21/04 38	10/20/04 25	04/16/03 30	10/21/04 16	10/19/04 38	11/02/04 17
4,6-Dinitro-2-methylphenol	ug/Kg	10/21/04 49	10/20/04 52	04/16/03 230	10/21/04 40	10/19/04 80	11/02/04 38
N-Nitrosodiphenylamine	ug/Kg	10/21/04 16	10/20/04 33	04/16/03 34	10/21/04 25	10/19/04 36	11/02/04 31
Azobenzene	ug/Kg	10/21/04 17	10/20/04 34	04/16/03 29	10/21/04 17	10/19/04 46	11/02/04 24
4-Bromophenyl-phenylether	ug/Kg	10/21/04 8.7	10/20/04 34	04/16/03 25	10/21/04 21	10/19/04 30	11/02/04 34
Hexachlorobenzene	ug/Kg	10/21/04 8.7	10/20/04 43	04/16/03 25	10/21/04 28	10/19/04 32	11/02/04 34
Phenanthrene	ug/Kg	10/21/04 5.9	10/20/04 30	04/25/03 13	10/21/04 18	10/19/04 37	11/02/04 31
Anthracene	ug/Kg	10/21/04 2.3	10/20/04 26	04/25/03 14	10/21/04 9.5	10/19/04 29	11/02/04 20
Di-n-butylphthalate	ug/Kg	10/21/04 13	10/20/04 34	04/16/03 37	10/21/04 17	10/19/04 39	11/02/04 26
Fluoranthene	ug/Kg	10/21/04 15	10/20/04 32	04/25/03 12	10/21/04 22	10/19/04 36	11/02/04 32
Benzidine	ug/Kg	04/28/03 80	05/02/03 33				
Butylbenzylphthalate	ug/Kg	10/21/04 38	10/20/04 25	04/16/03 28	10/21/04 22	10/19/04 38	11/02/04 37
3,3'-Dichlorobenzidine	ug/Kg	10/21/04 25	10/20/04 18	04/16/03 49	10/21/04 27	10/19/04 24	11/02/04 32
Benzo(a)anthracene	ug/Kg	10/21/04 41	10/20/04 25	04/25/03 11	10/21/04 23	10/19/04 32	11/02/04 27
Chrysene	ug/Kg	10/21/04 31	10/20/04 35	04/25/03 13	10/21/04 17	10/19/04 30	11/02/04 27
bis(2-Ethylhexyl)phthalate	ug/Kg	10/21/04 40	10/20/04 17	04/16/03 28	10/21/04 16	10/19/04 33	11/02/04 52
Di-n-octylphthalate	ug/Kg	10/21/04 32	10/20/04 10	04/16/03 29	10/21/04 13	10/19/04 39	11/02/04 29
Benzo(b)fluoranthene	ug/Kg	10/21/04 31	10/20/04 42	04/25/03 12	10/21/04 24	10/19/04 29	11/02/04 24
Benzo(k)fluoranthene	ug/Kg	10/21/04 18	10/20/04 22	04/25/03 9.2	10/21/04 37	10/19/04 43	11/02/04 27
Benzo(a)pyrene	ug/Kg	10/21/04 29	10/20/04 23	04/25/03 11	10/21/04 13	10/19/04 27	11/02/04 21
Indeno(1,2,3-cd)pyrene	ug/Kg	10/21/04 44	10/20/04 39	04/25/03 14	10/21/04 14	10/19/04 37	11/02/04 29
Dibenz(a,h)anthracene	ug/Kg	10/21/04 57	10/20/04 25	04/25/03 14	10/21/04 23	10/19/04 35	11/02/04 27
Benzo(g,h,i)perylene	ug/Kg	10/21/04 53	10/20/04 23	04/25/03 14	10/21/04 17	10/19/04 38	11/02/04 26

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

MSS

Instid	: MSBNA04	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 534483105012	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: wku12	Batchnum	: 96932	Injected	: 30-NOV-2004 17:51
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534481550001	Caldate	: 29-NOV-2004	Caltype	:

Prep: 29.80 g --> 1.0 ml = 0.03356 ml/g PDF

Analyte	Result	RTS	RL	B=wku05	Flags
N-Nitrosodimethylamine	ND		340		
Phenol	ND		340		
bis(2-Chloroethyl)ether	ND		340		
2-Chlorophenol	ND		340		
1,3-Dichlorobenzene	ND		340		
1,4-Dichlorobenzene	ND		340		
Benzyl alcohol	ND		340		
1,2-Dichlorobenzene	ND		340		
2-Methylphenol	ND		340		
bis(2-Chloroisopropyl) ether	ND		340		
4-Methylphenol	ND		340		
N-Nitroso-di-n-propylamine	ND		340		
Hexachloroethane	ND		340		
Nitrobenzene	ND		340		
Isophorone.....	650	-0.324	340		x
2-Nitrophenol	ND		670		
2,4-Dimethylphenol	ND		340		
Benzoic acid	ND		1700		
bis(2-Chloroethoxy)methane	ND		340		
2,4-Dichlorophenol	ND		340		
1,2,4-Trichlorobenzene	ND		340		
Naphthalene	ND		340		
4-Chloroaniline	ND		340		
Hexachlorobutadiene	ND		340		
4-Chloro-3-methylphenol	ND		340		
2-Methylnaphthalene	ND		340		
Hexachlorocyclopentadiene	ND		1700		
2,4,6-Trichlorophenol	ND		340		
2,4,5-Trichlorophenol	ND		340		
2-Chloronaphthalene	ND		340		
2-Nitroaniline	ND		670		
Dimethylphthalate	ND		340		
Acenaphthylene	ND		340		
2,6-Dinitrotoluene.....	520	0.229	340		x
3-Nitroaniline	ND		670		
Acenaphthene	ND		670		
2,4-Dinitrophenol	ND		1700		
4-Nitrophenol	ND		670		
Dibenzofuran	ND		340		
2,4-Dinitrotoluene.....	400	-0.262	340		x
Diethylphthalate	ND		340		

x=false positive

Analyst: _____ Date: 12/1/04 Reviewer: _____ Date: 12/1/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 534483105012	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: wku12	Batchnum	: 96932	Injected	: 30-NOV-2004 17:51
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534481550001	Caldate	: 29-NOV-2004	Caltype	:

Analyte	Result	RTS	RL	B=wku05	Flags
Fluorene	ND		340		
4-Chlorophenyl-phenylether	ND		340		
4-Nitroaniline	ND		670		
4,6-Dinitro-2-methylphenol	ND		1700		
N-Nitrosodiphenylamine	ND		340		
Azobenzene	ND		340		
4-Bromophenyl-phenylether	ND		340		
Hexachlorobenzene	ND		340		
Pentachlorophenol	ND		670		
Phenanthrene	ND		340		
Anthracene	ND		340		
Di-n-butylphthalate	ND		340		
Fluoranthene	ND		340		
Pyrene	ND		340		
Butylbenzylphthalate	ND		340		
3,3'-Dichlorobenzidine	ND		670		
Benzo(a)anthracene	ND		67		
Chrysene	ND		340		
bis(2-Ethylhexyl)phthalate	ND		340		
Di-n-octylphthalate	ND		340		
Benzo(b)fluoranthene	ND		67		
Benzo(k)fluoranthene	ND		67		
Benzo(a)pyrene	ND		67		
Indeno(1,2,3-cd)pyrene	ND		67		
Dibenz(a,h)anthracene	ND		67		
Benzo(g,h,i)perylene	ND		340		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3356	2602	78	25-121	
Phenol-d5	3356	2460	73	24-113	
2,4,6-Tribromophenol	3356	2407	72	19-122	
Nitrobenzene-d5	1678	1272	76	23-120	
2-Fluorobiphenyl	1678	1481	88	30-115	
Terphenyl-d14	1678	1228	73	18-137	

ISTD (CCV=wku11)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	281299	236469	-15.94	6.92	6.91	-0.01
Naphthalene-d8	970655	793444	-18.26	8.42	8.40	-0.02
Acenaphthene-d10	629730	509995	-19.01	10.55	10.54	-0.01
Phenanthrene-d10	1139563	887673	-22.10	12.36	12.35	-0.01
Chrysene-d12	1002740	821141	-18.11	15.70	15.67	-0.03
Perylene-d12	878131	699042	-20.39	18.33	18.31	-0.02

x=false positive

Analyst: _____ Date: 12/1/04 Reviewer: _____ Date: 12/6/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D
Report Date: 30-Nov-2004 18:53

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 17:51 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : MSS,176248-003
Misc Info : 96932,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 18:18 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.560	5.505	(0.805)	470986	77.5442	77.5442
$ 4 Phenol-d5	99	6.542	6.518	(0.947)	526525	73.3196	73.3196
6 Aniline	66	6.532	6.559	(0.945)	31804	9.61699	~~9.6169~~(Q)
7 bis(2-Chloroethyl)ether	63	6.910	6.620	(1.000)	7876	1.58013	1.5801(a)
* 10 1,4-Dichlorobenzene-d4	152	6.910	6.916	(1.000)	236469	40.0000	
17 N-Nitroso-di-n-propylamine	70	7.564	7.417	(1.095)	34237	9.42094	~~9.4209~~
$ 19 Nitrobenzene-d5	82	7.564	7.581	(0.900)	237777	37.9037	37.9036
21 Isophorone	82	7.564	7.888	(0.900)	237777	19.4089	~~19.4088~~
* 28 Naphthalene-d8	136	8.402	8.419	(1.000)	793444	40.0000	
$ 37 2-Fluorobiphenyl	172	9.711	9.718	(0.921)	657980	44.1298	44.1298
40 Dimethylphthalate	163	10.539	10.219	(1.000)	109422	5.93751	~~5.9375~~(Q)
41 2,6-Dinitrotoluene	165	10.539	10.311	(1.000)	66022	15.5740	15.~~5740~~
* 44 Acenaphthene-d10	164	10.539	10.546	(1.000)	509995	40.0000	
49 2,4-Dinitrotoluene	165	10.539	10.801	(1.000)	66022	11.8434	~~11.8434~~

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D
Report Date: 30-Nov-2004 18:53

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
52 Fluorene	166	11.500	11.210	(1.091)	11535	0.77404	0.7740(a)
55 N-Nitrosodiphenylamine	169	11.500	11.364	(0.931)	7547	0.77565	0.7756(a)
$ 57 2,4,6-Tribromophenol	330	11.500	11.517	(1.091)	252771	71.7303	71.7302
58 4-Bromophenyl-phenylether	248	11.500	11.803	(0.931)	14677	2.81427	2.8142(aQ)
* 61 Phenanthrene-d10	188	12.349	12.355	(1.000)	887673	40.0000	
66 Fluoranthene	202	14.281	13.838	(1.156)	2570	0.10425	0.1042(a)
67 Benzidine	184	14.281	13.991	(0.911)	12766	9.37914	9.3791(Q)
68 Pyrene	202	14.281	14.124	(0.911)	2570	0.09680	0.0967(a)
$ 69 Terphenyl-d14	244	14.281	14.287	(0.911)	756859	36.5943	36.5942
72 bis(2-Ethylhexyl)phthalate	149	15.630	15.657	(0.997)	9450	0.44017	0.4401(a)
73 Benzo(a)anthracene	228	15.671	15.668	(1.000)	3729	0.14415	~~0.1441(a)~~
* 74 Chrysene-d12	240	15.671	15.698	(1.000)	821141	40.0000	
75 Chrysene	228	15.671	15.739	(1.000)	3729	0.16393	0.1639(a)
79 Benzo(a)pyrene	252	18.299	18.203	(0.999)	2707	0.12996	0.1299(aQ)
* 80 Perylene-d12	264	18.309	18.326	(1.000)	699042	40.0000	
82 Dibenz(a,h)anthracene	278	20.977	21.066	(1.146)	1596	0.09391	0.0939(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D
Report Date: 30-Nov-2004 18:53

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 17:51 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : MSS,176248-003
Misc Info : 96932,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 18:18 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	6.910	1374870	40.000
* 74 Chrysene-d12	15.671	2380318	40.000
* 80 Perylene-d12	18.309	2118719	40.000

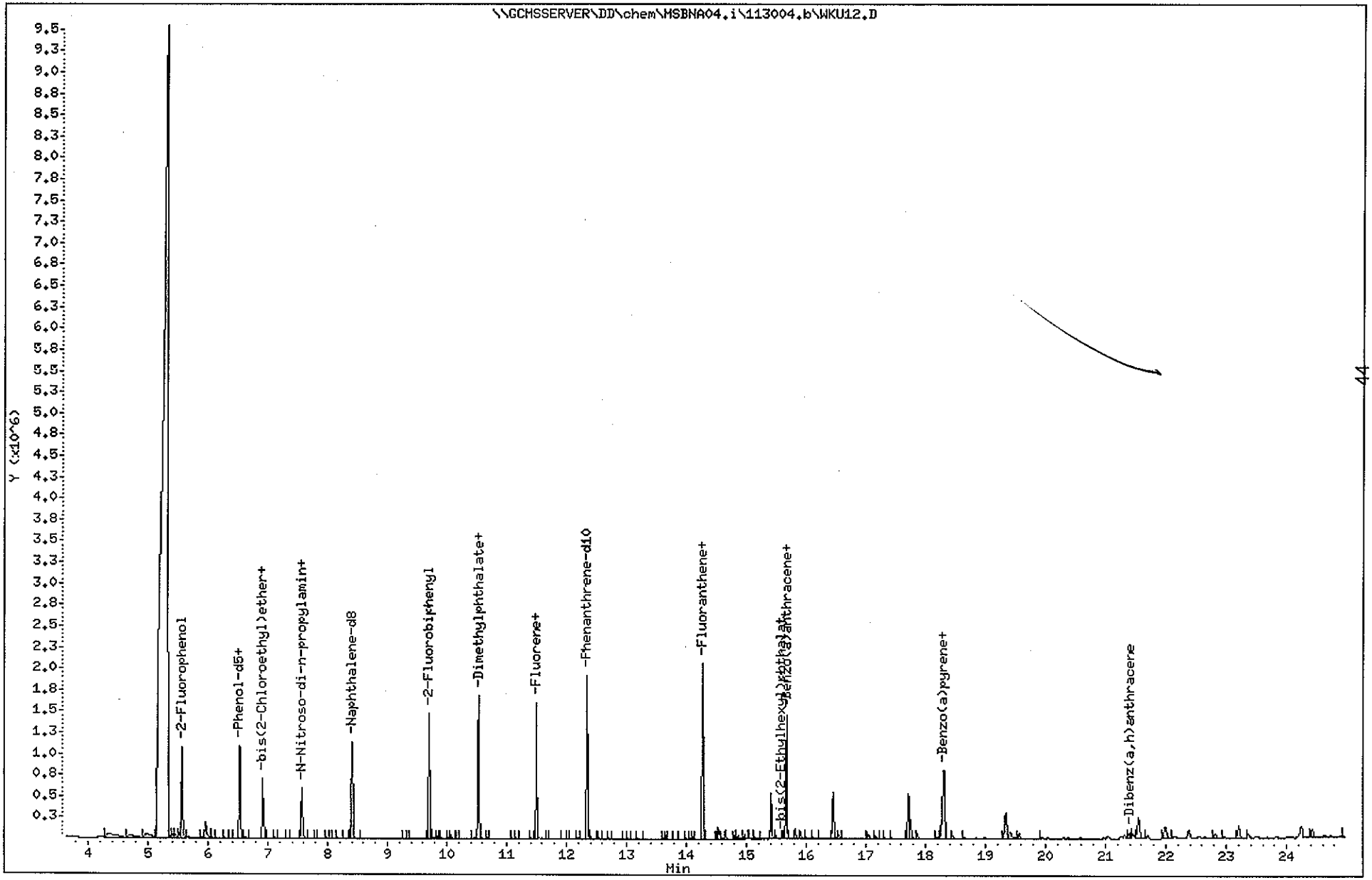
		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Toluene				CAS #: 108-88-3			
4.354	553843	16.1133198	16.1133	94	nbs75k.l	965	10

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D
Report Date: 30-Nov-2004 18:53

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
3-Penten-2-one, 4-methyl-					CAS #: 141-79-7		
4.691	263897	7.67772953	7.6777	91	nbs75k.l	63216	10
Copper, bis(ethyl 3-oxobutanoato-O1',O3)					CAS #: 14284-06-1		
4.967	309136	8.99389760	8.9938	40	nbs75k.l	45707	10
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
5.315	55472008	1613.88373	1613.8837	50	nbs75k.l	64275	10
Propane, 1-(1-methylethoxy)-					CAS #: 627-08-7		
5.959	362788	10.5548306	10.5548	33	nbs75k.l	63556	10
1-Dotriacontanol					CAS #: 6624-79-9		
15.416	652315	10.9618127	10.9618	94	nbs75k.l	57795	74
1-Docosene					CAS #: 1599-67-3		
16.448	914781	15.3724166	15.3724	95	nbs75k.l	72943	74
Tridecane, 7-hexyl-					CAS #: 7225-66-3		
17.706	1043808	19.7063981	19.7063	96	nbs75k.l	37464	80
1-Eicosanol					CAS #: 629-96-9		
17.747	376351	7.10525558	7.1052	93	nbs75k.l	72722	80
Hexacosane					CAS #: 630-01-3		
19.331	639471	12.0727855	12.0727	98	nbs75k.l	51010	80
1,4-Methanoazulene, decahydro-4,8,8-trim					CAS #: 475-20-7		
21.550	648173	12.2370734	12.2370	70	nbs75k.l	23917	80
.gamma.-Sitosterol					CAS #: 83-47-6		
21.989	458400	8.65428592	8.6542	35	nbs75k.l	54958	80
Unknown					CAS #:		
23.206	351297	6.63225279	6.6322	0		0	80

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D
Date : 30-NOV-2004 17:51
Client ID: CURTIS&TOMPKINS
Sample Info: MSS,176248-003
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



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Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

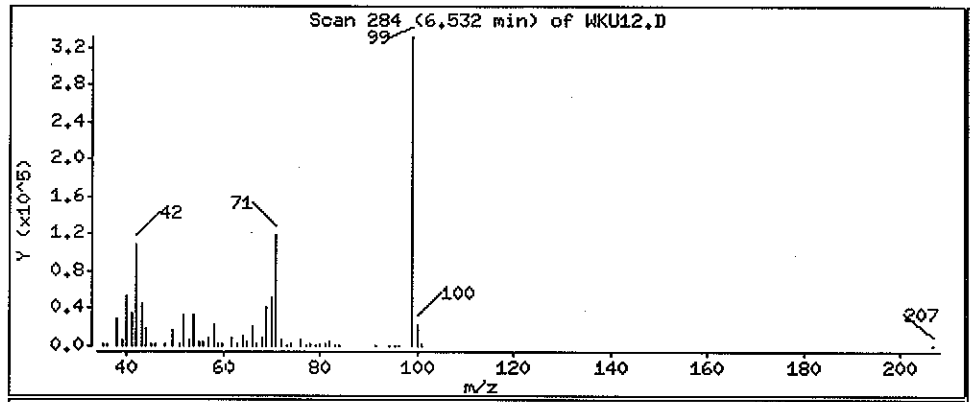
Operator: BVD

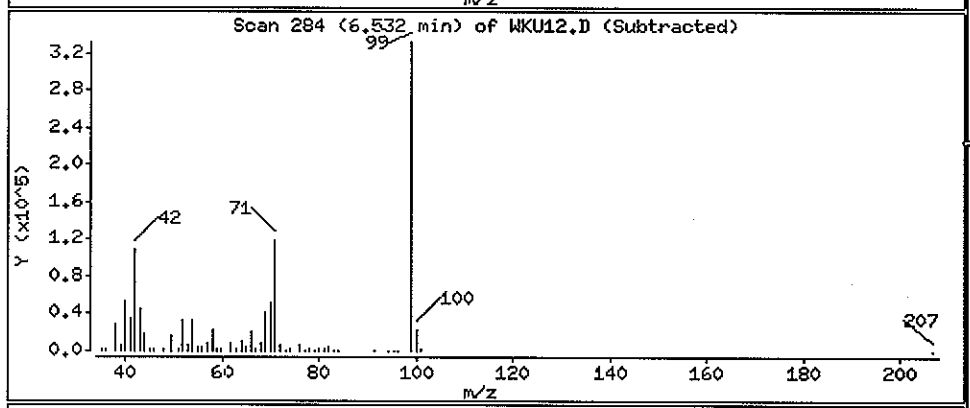
Column phase: Xti 5 x .5 u

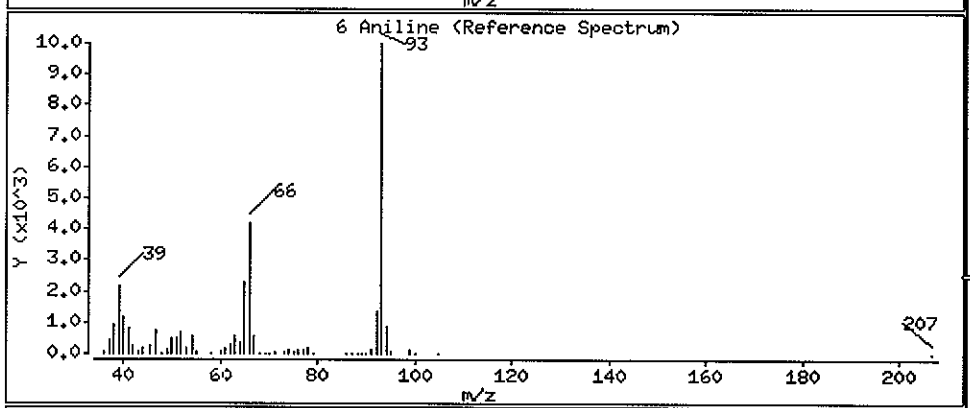
Column diameter: 0.25

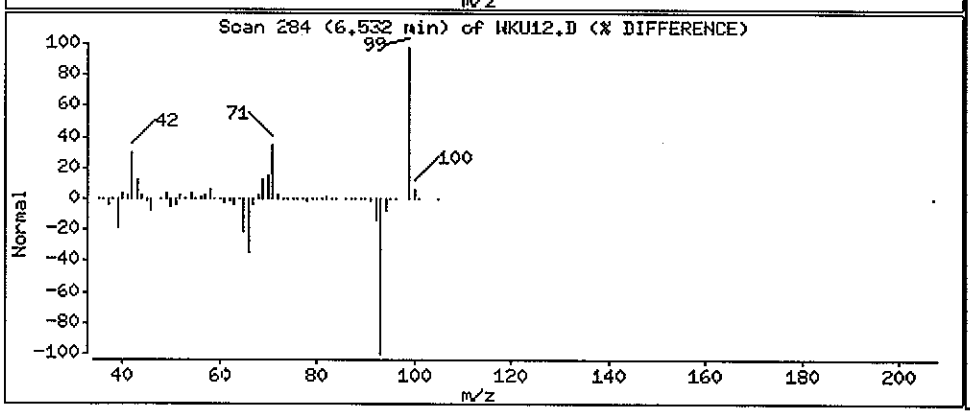
6 Aniline

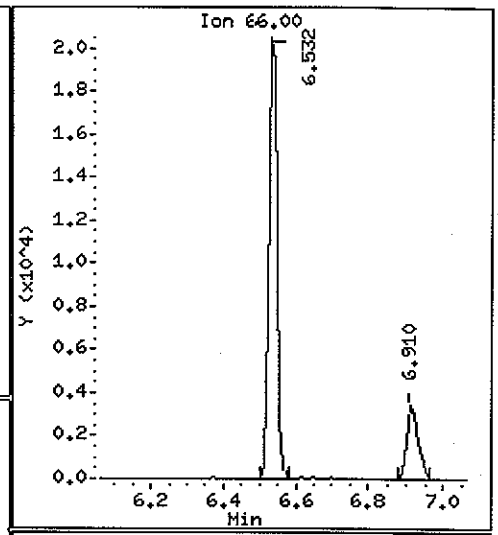
Concentration: 9.6169 ug/L

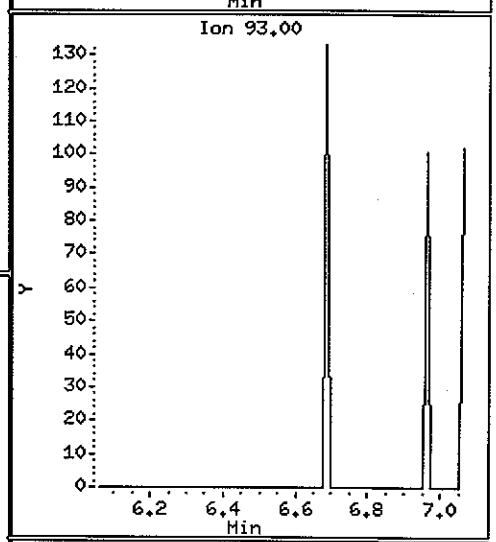


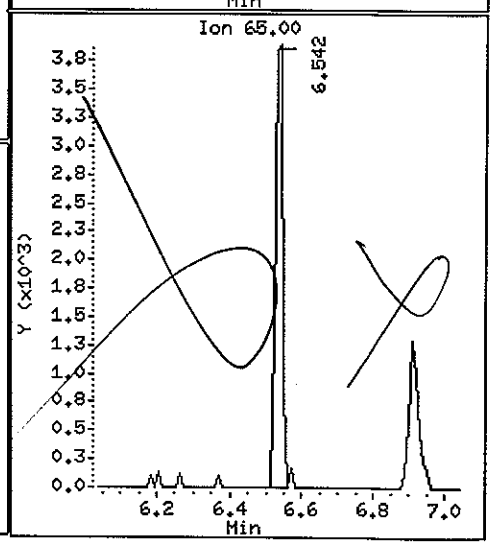












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

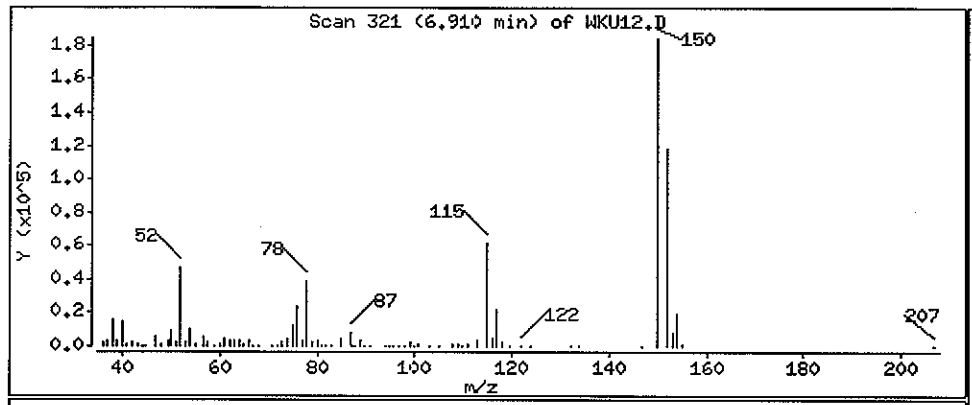
Operator: BVD

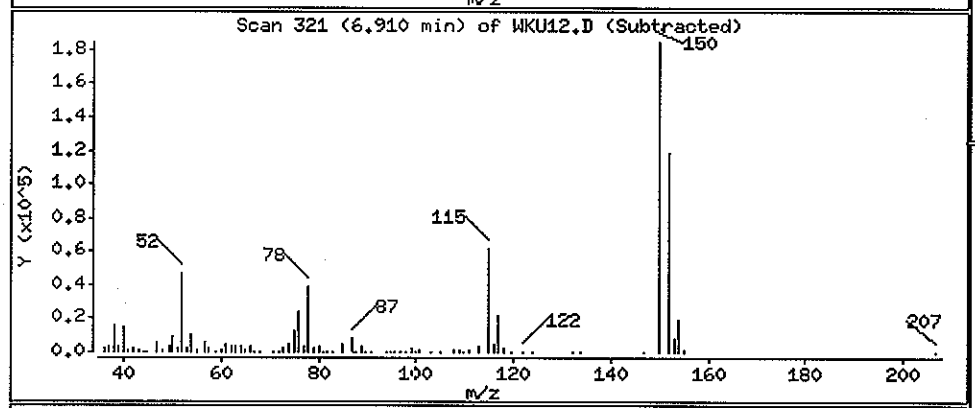
Column phase: Xti 5 x .5 u

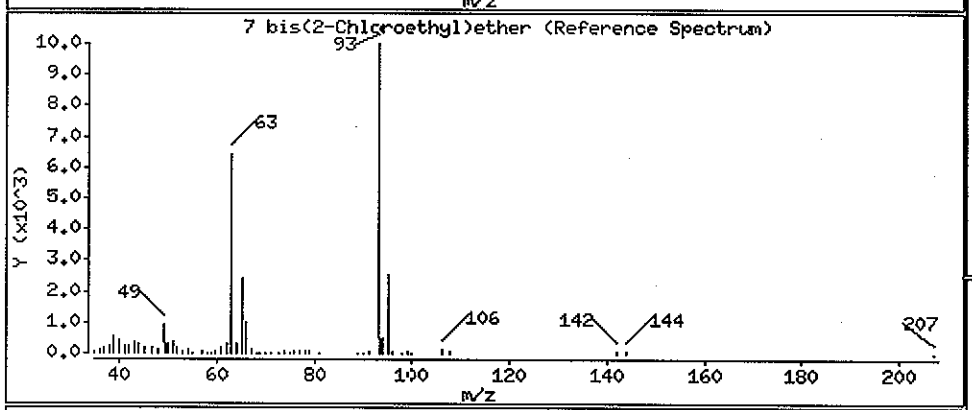
Column diameter: 0.25

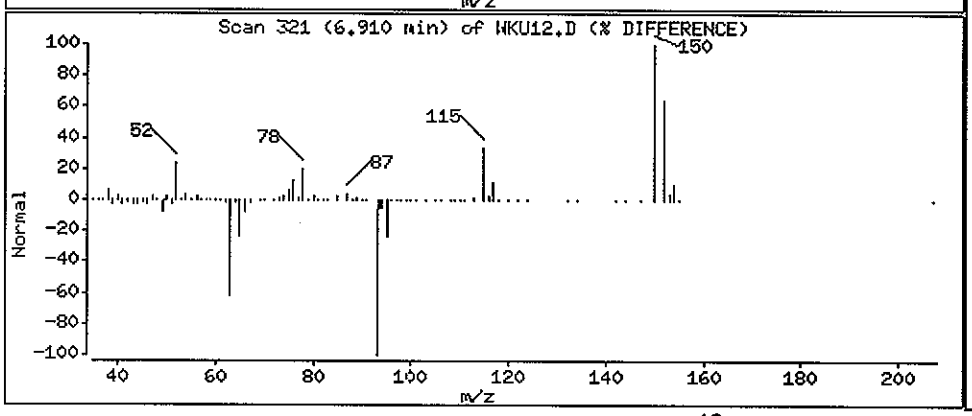
7 bis(2-Chloroethyl)ether

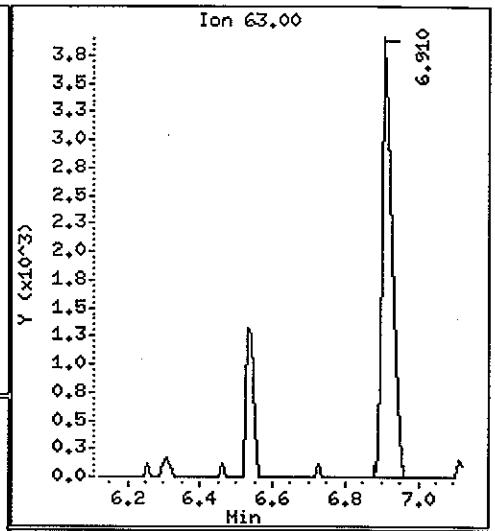
Concentration: 1.5801 ug/L

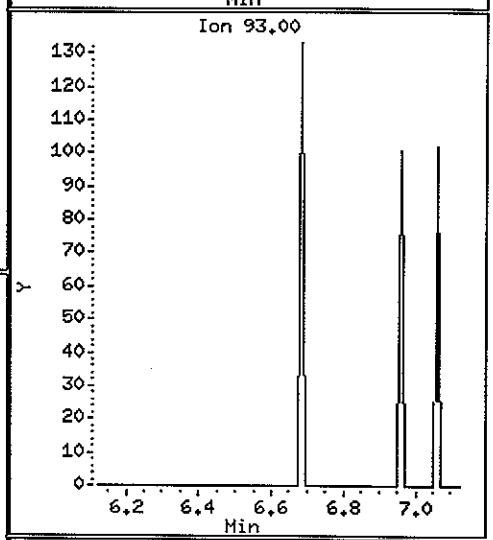


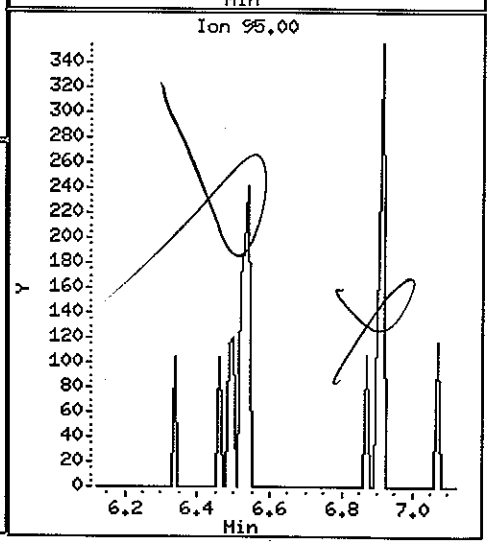












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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

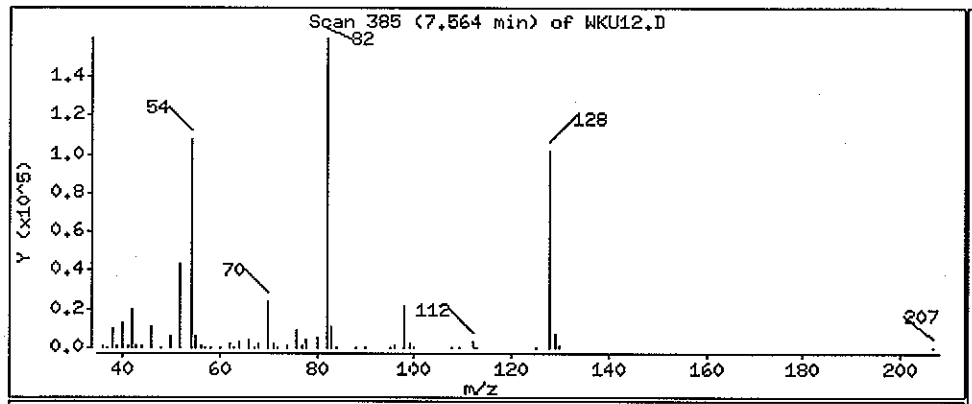
Operator: BVD

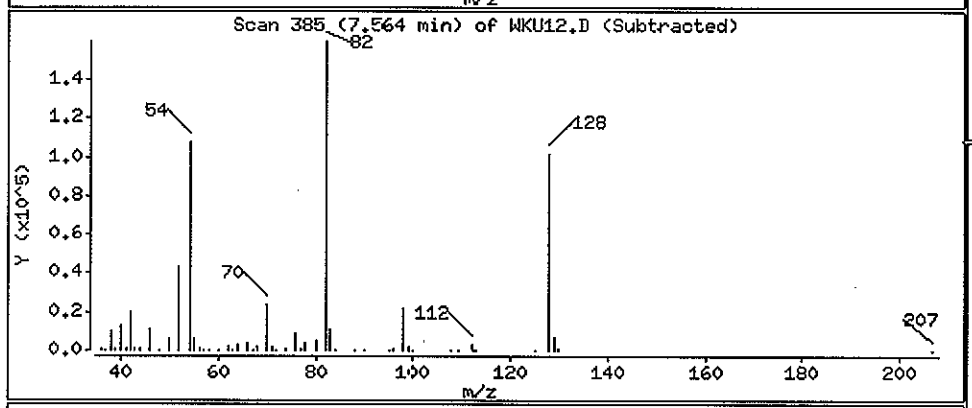
Column phase: Xti 5 x .5 u

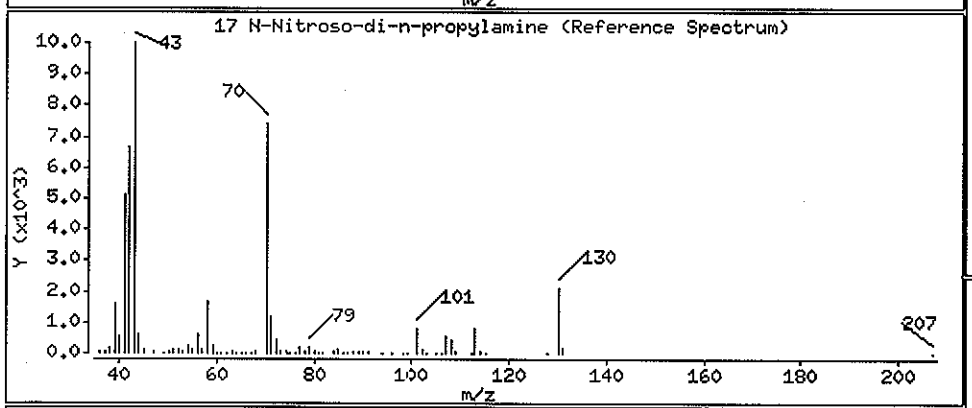
Column diameter: 0.25

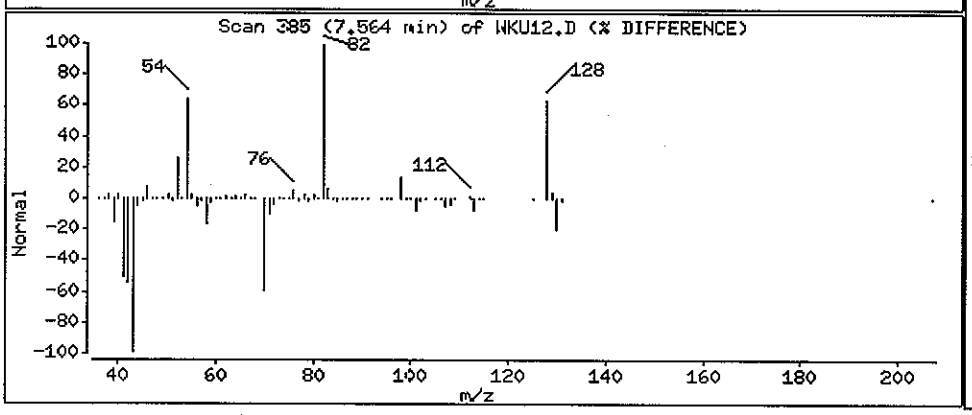
17 N-Nitroso-di-n-propylamine

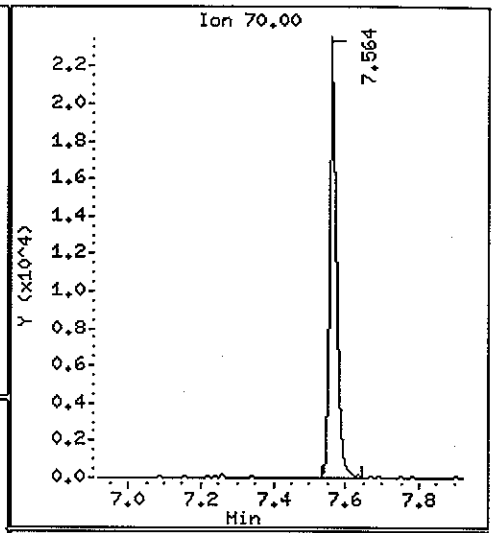
Concentration: 9.4209 ug/L

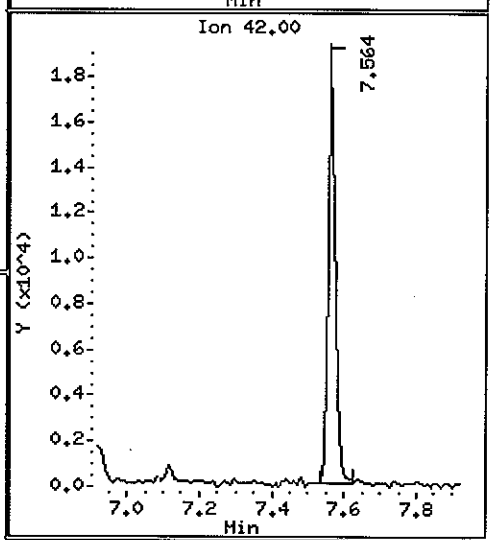


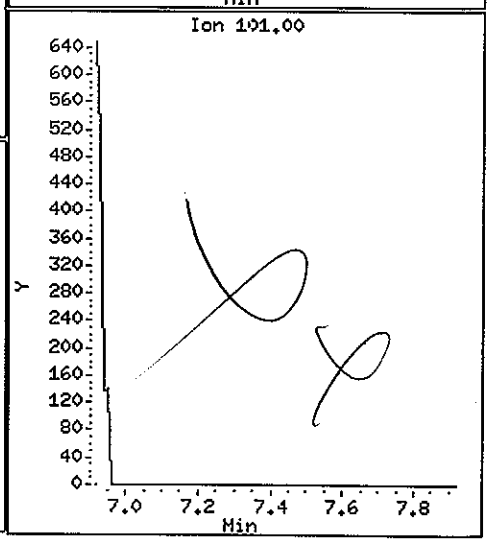












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

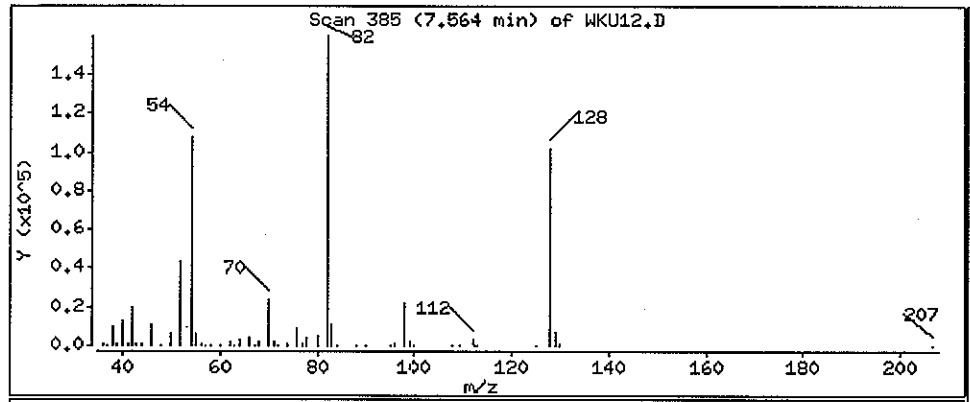
Operator: BVD

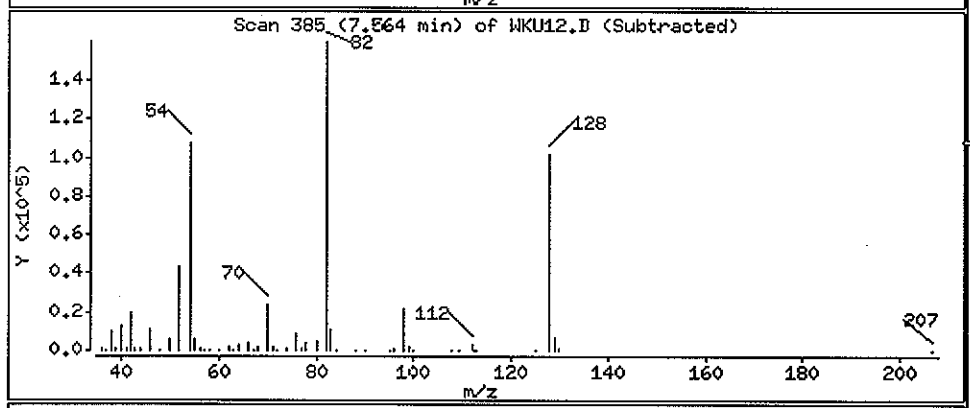
Column phase: Xti 5 x .5 u

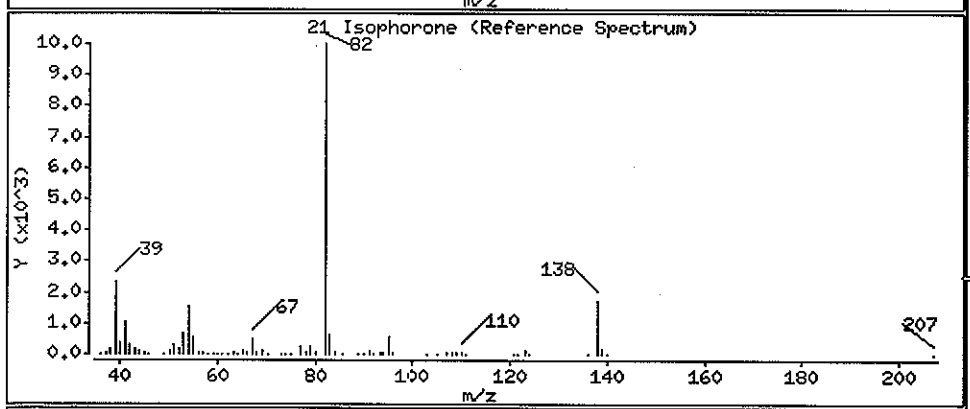
Column diameter: 0.25

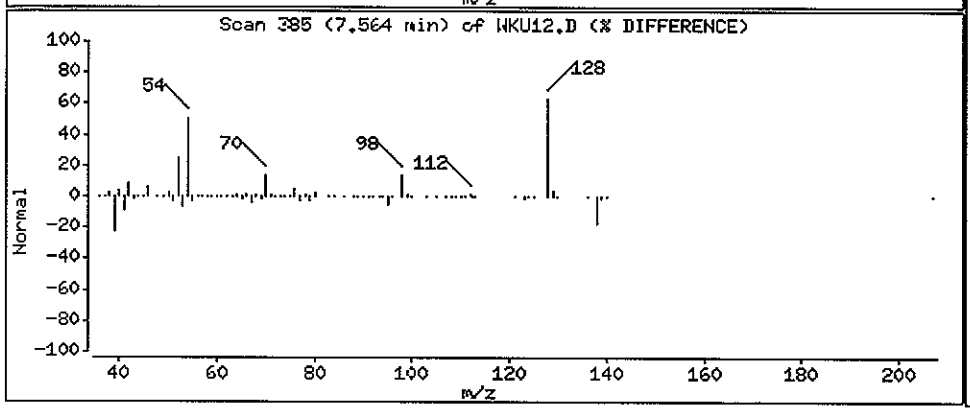
21 Isophorone

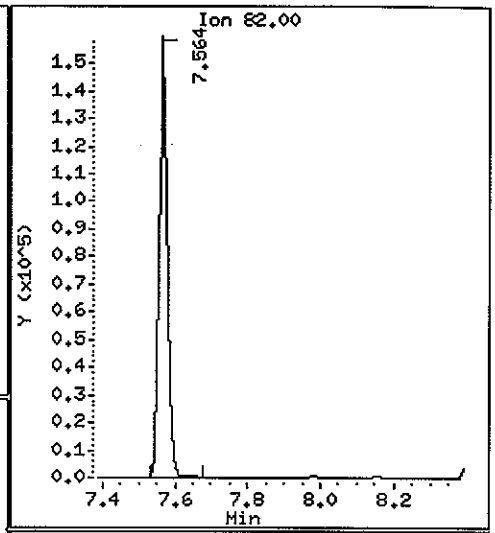
Concentration: 19.4088 ug/L

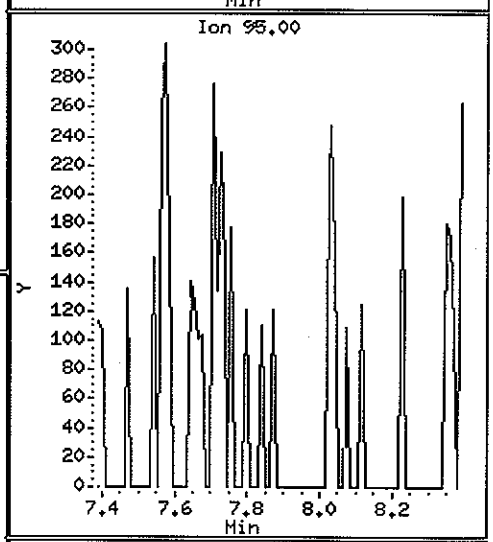


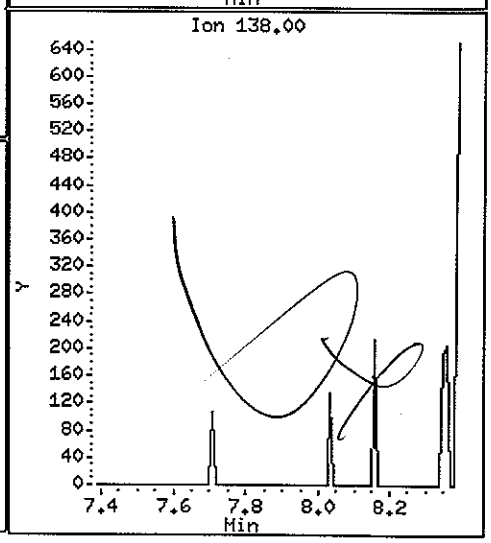












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

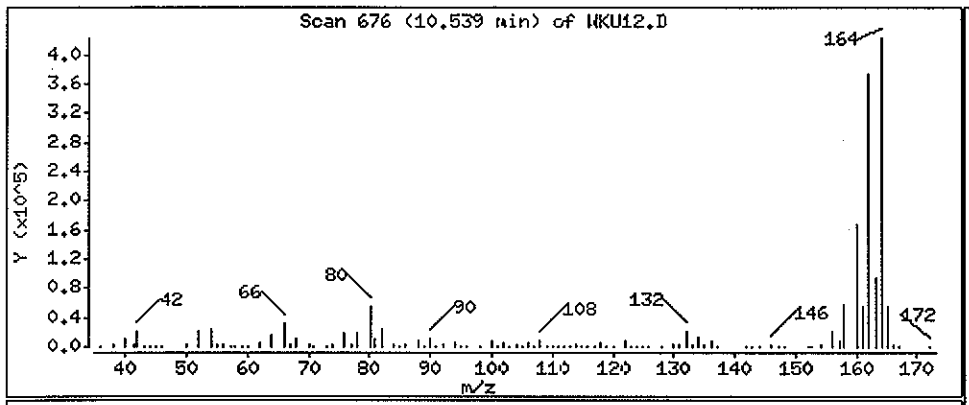
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

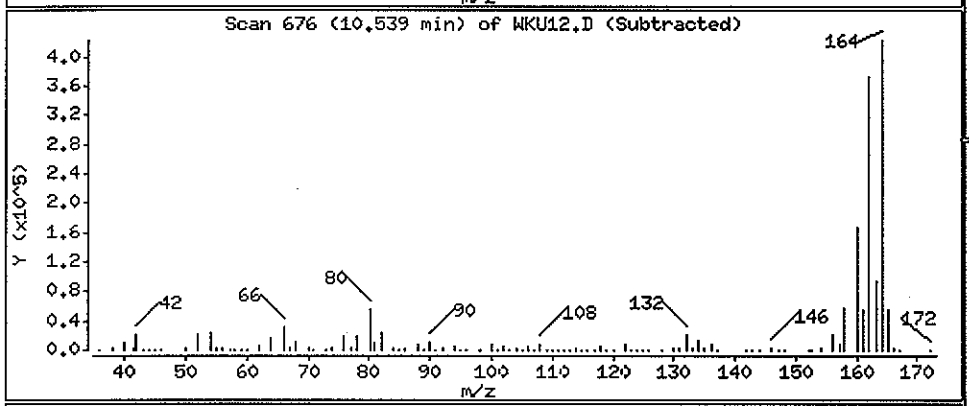
Sample Info: MSS,176248-003

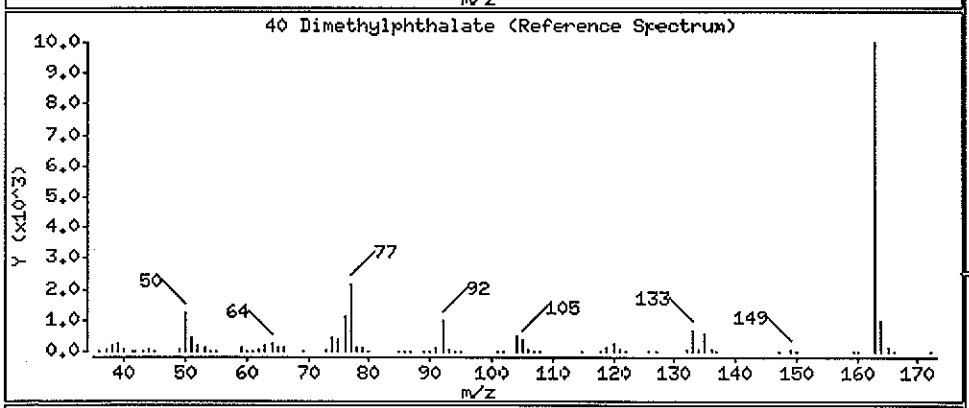
Volume Injected (uL): 1.0 | Operator: BVD

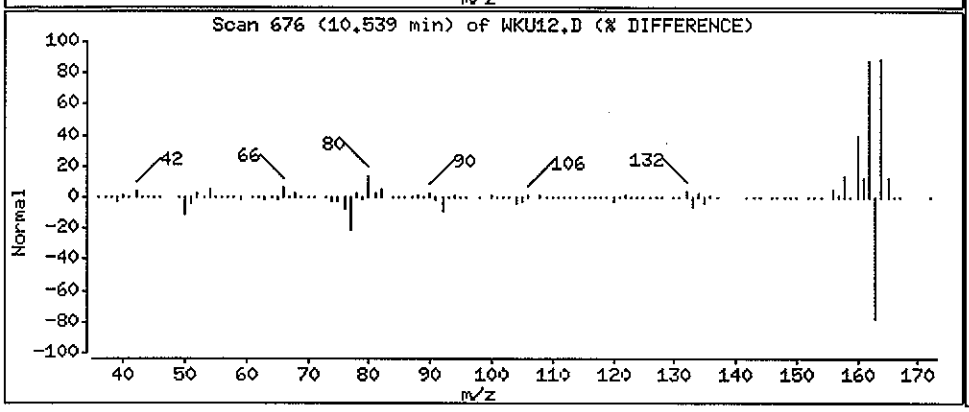
Column phase: Xti 5 x .5 u | Column diameter: 0.25

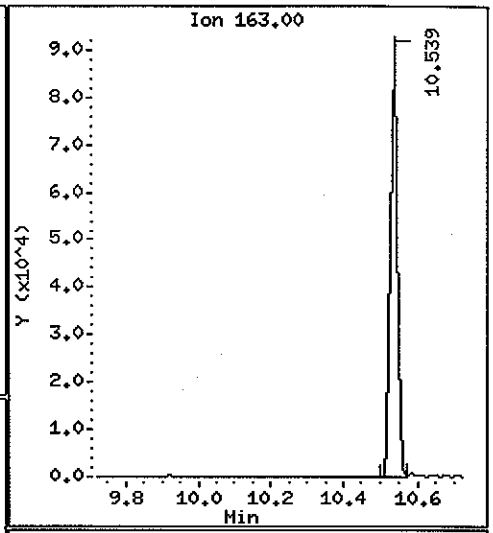
40 Dimethylphthalate | Concentration: 5.9375 ug/L

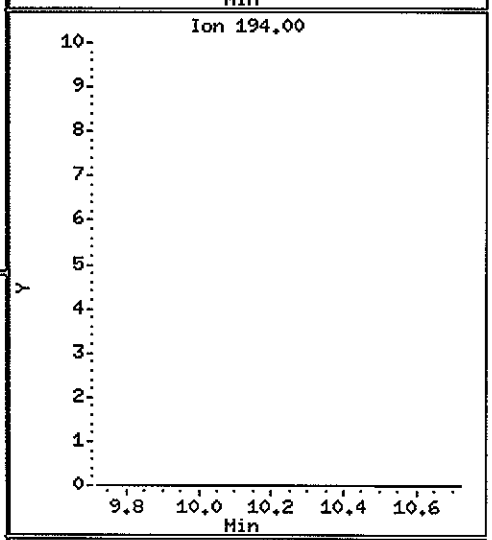


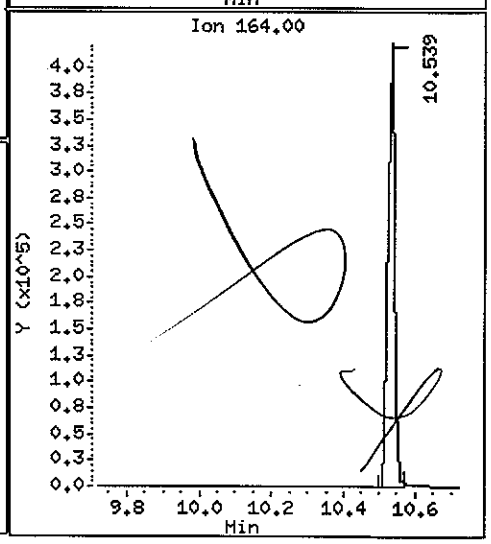












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

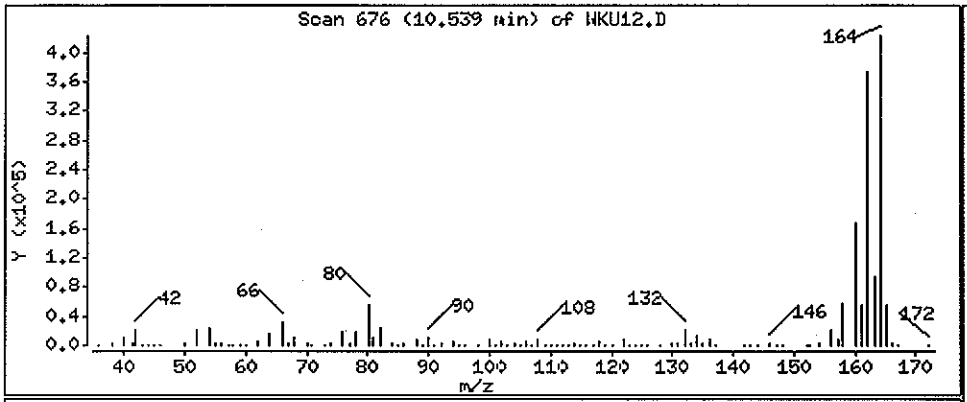
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

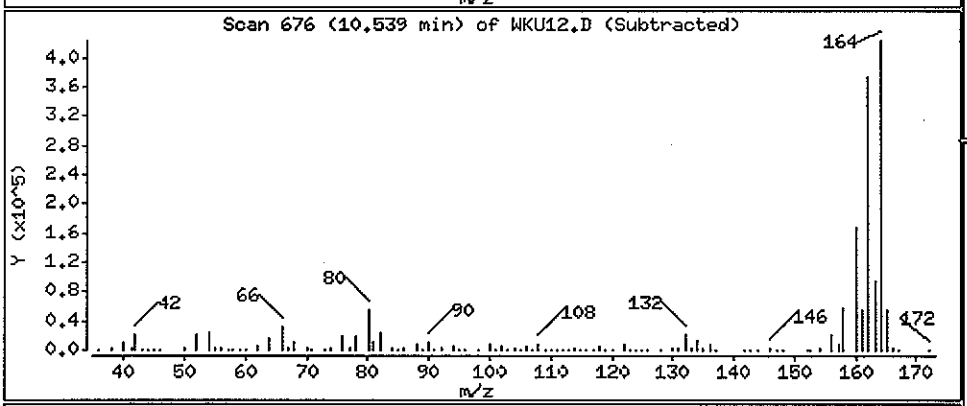
Sample Info: MSS,176248-003

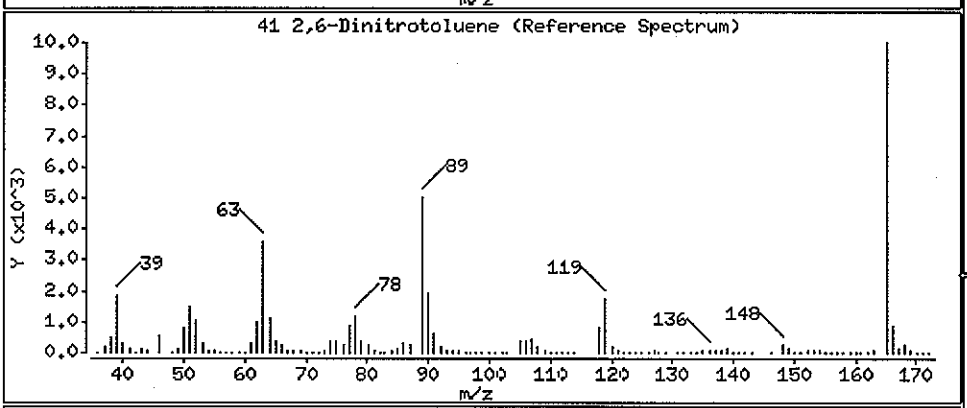
Volume Injected (uL): 1.0 | Operator: BVD

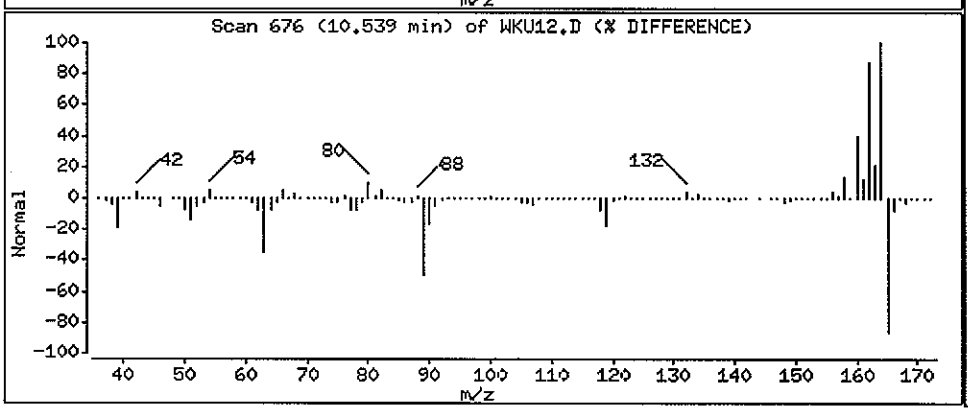
Column phase: Xti 5 x .5 u | Column diameter: 0.25

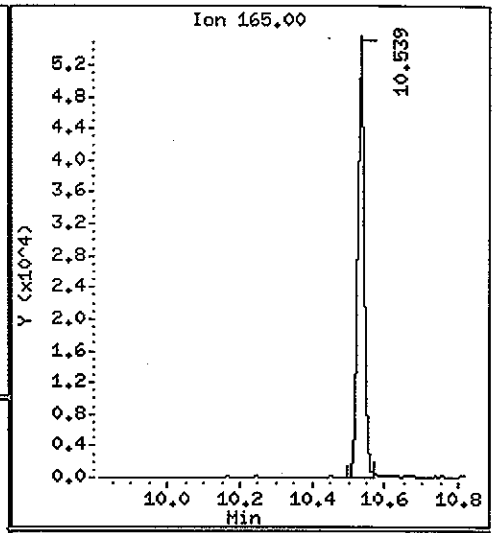
41 2,6-Dinitrotoluene | Concentration: 15.5740 ug/L

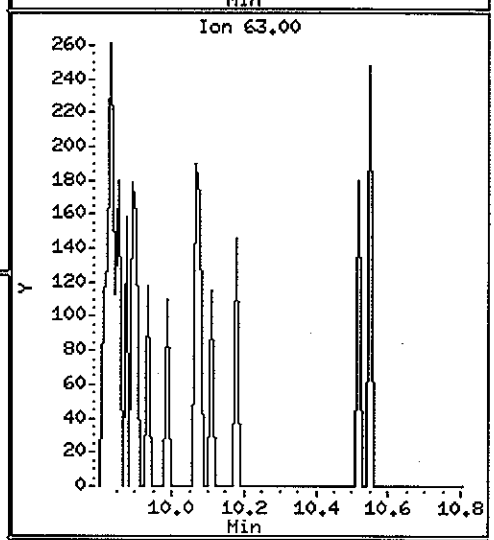


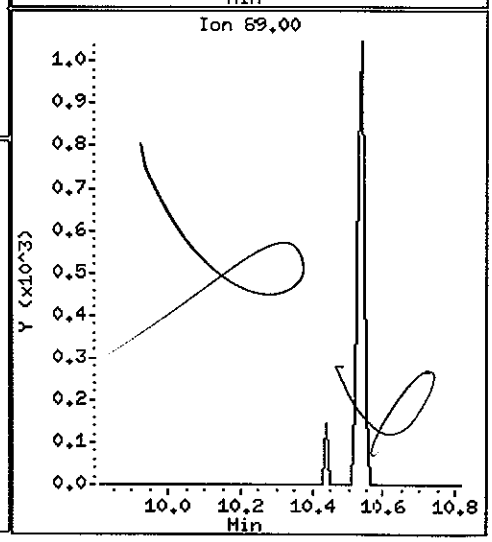












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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

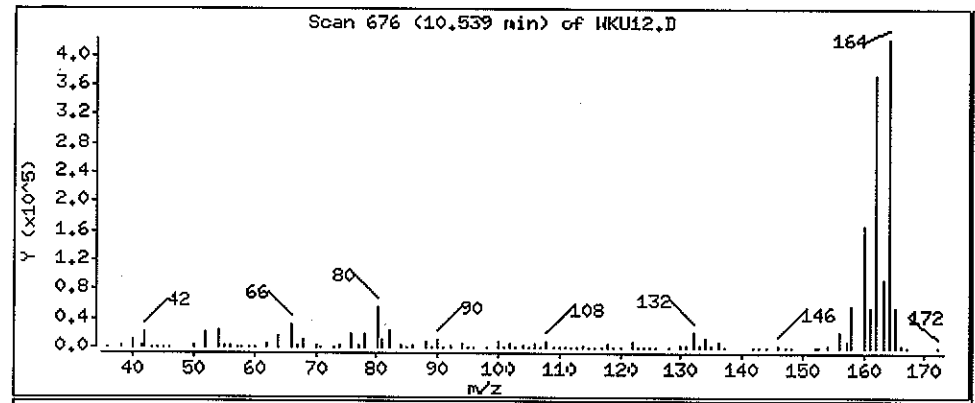
Operator: BVD

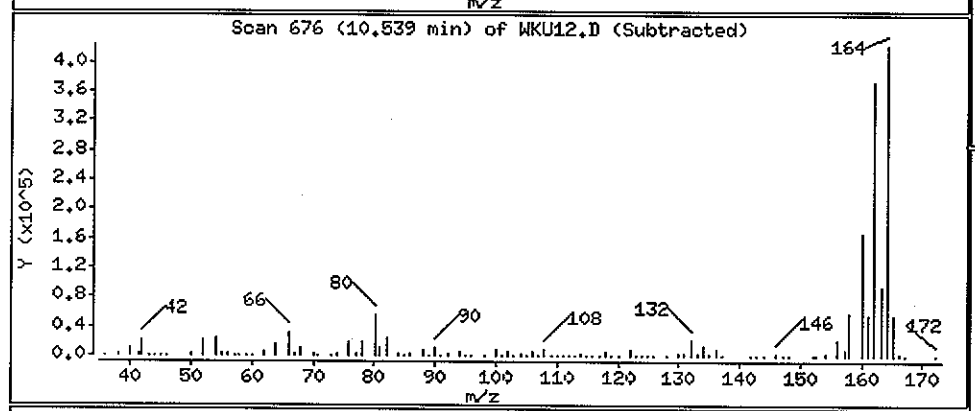
Column phase: Xti 5 x .5 u

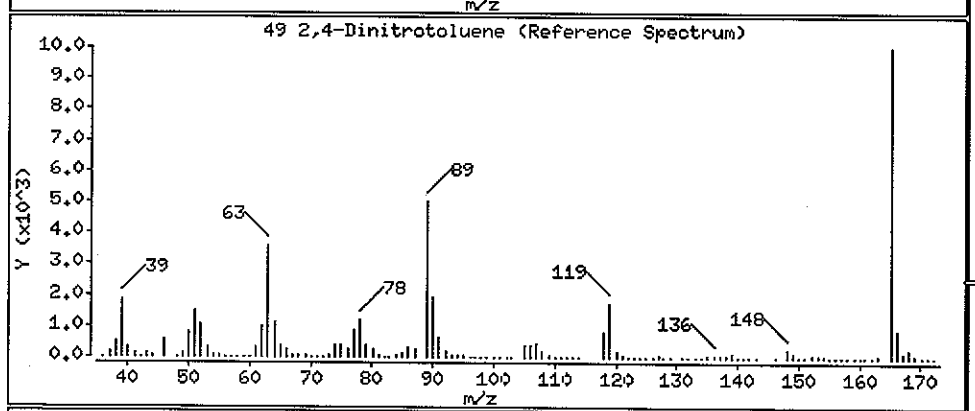
Column diameter: 0.25

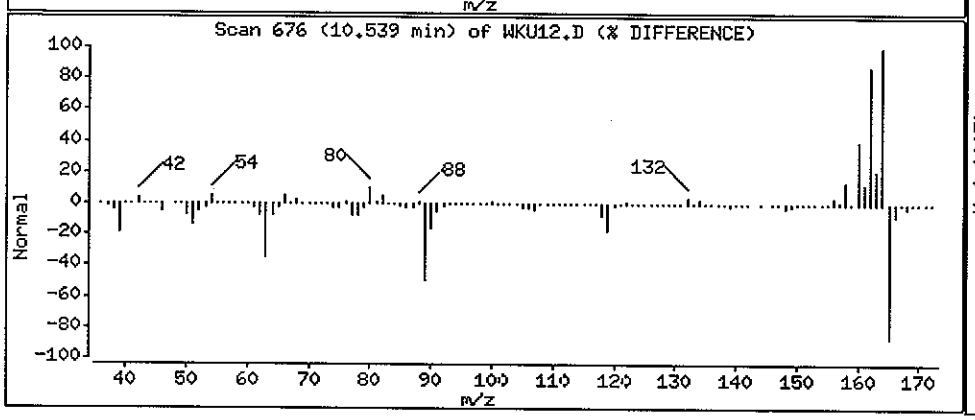
49 2,4-Dinitrotoluene

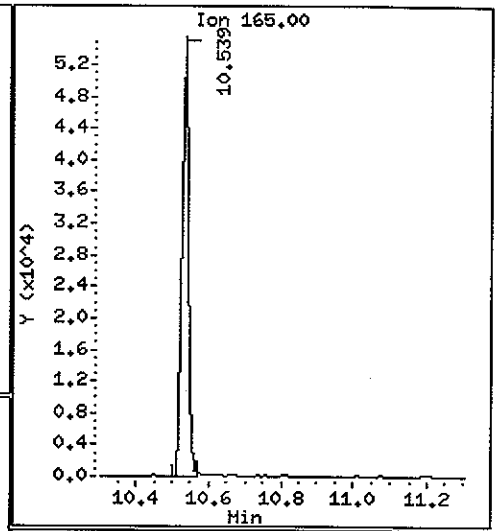
Concentration: 11.8434 ug/L

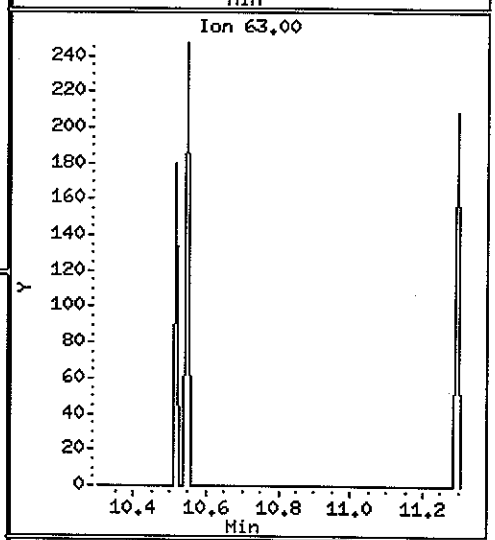


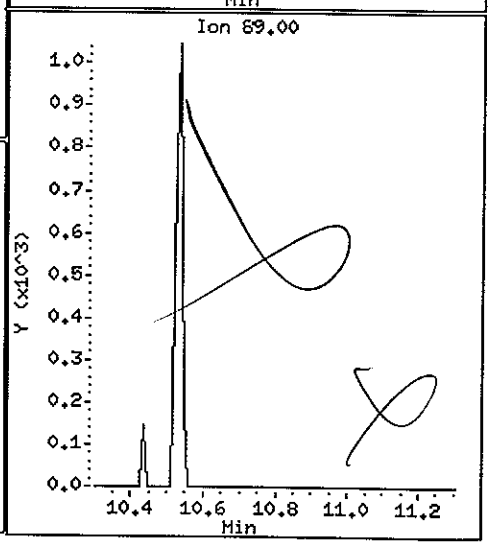












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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

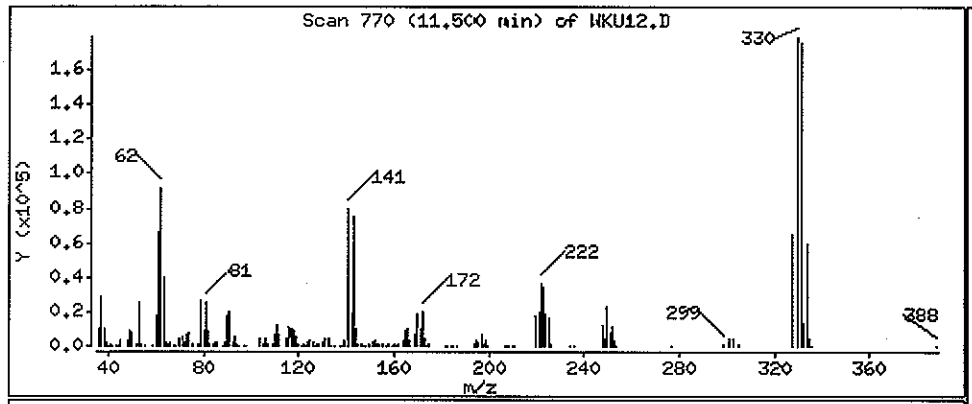
Operator: BVD

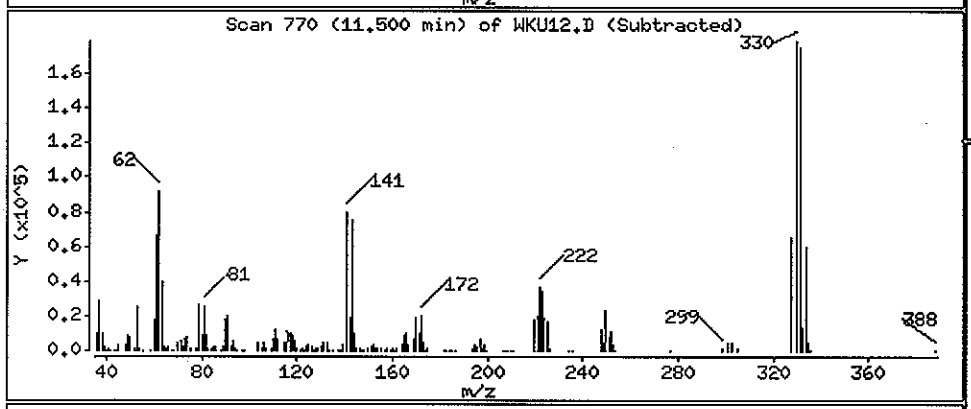
Column phase: Xti 5 x .5 u

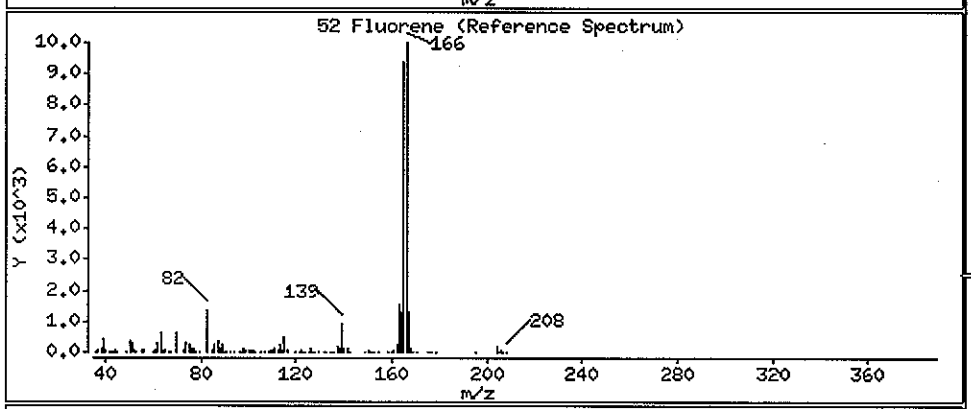
Column diameter: 0.25

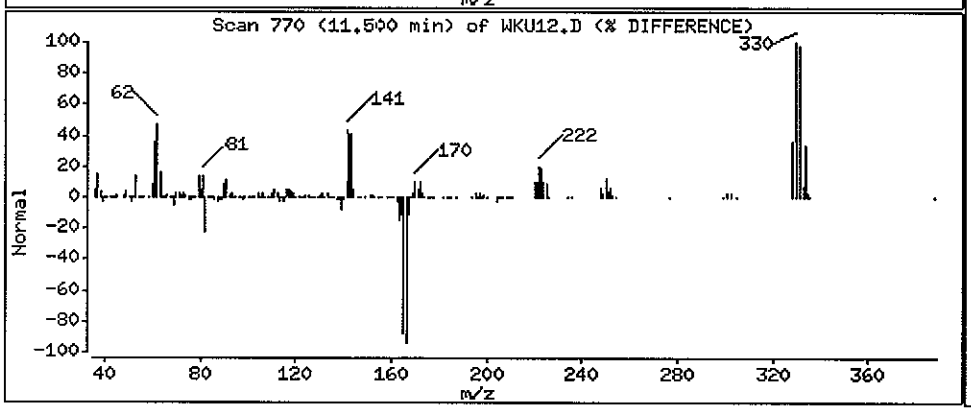
52 Fluorene

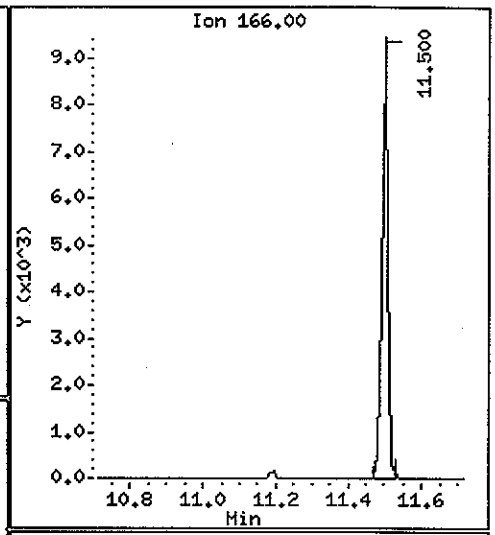
Concentration: 0.7740 ug/L

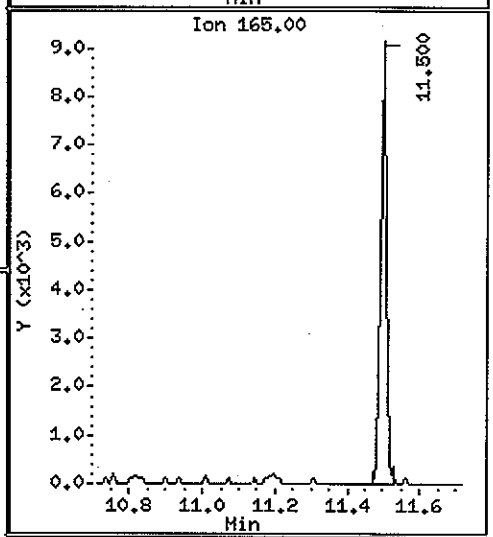


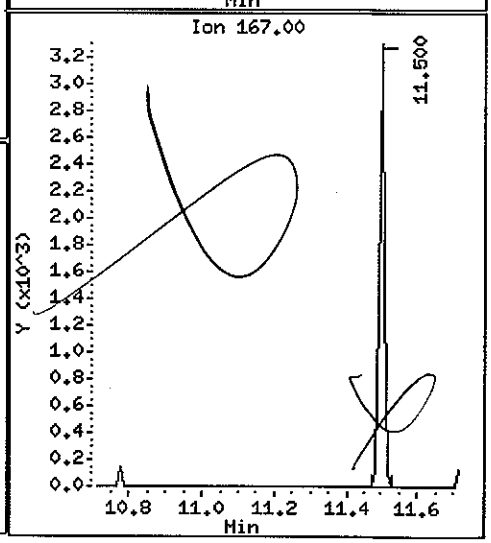












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

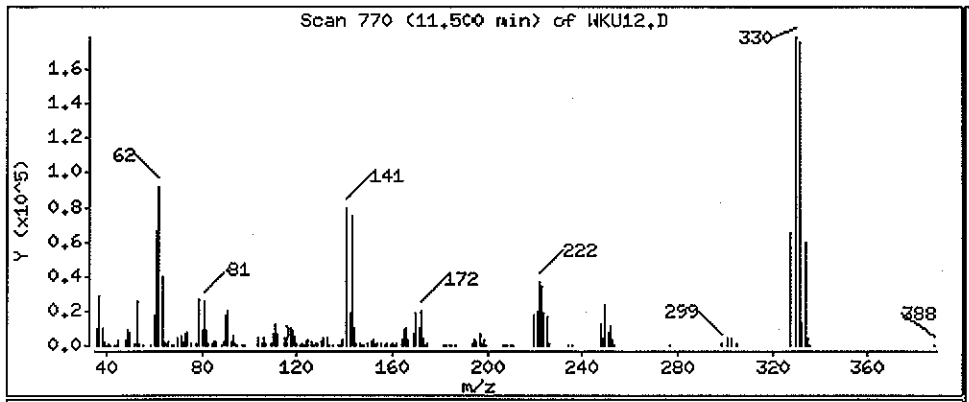
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

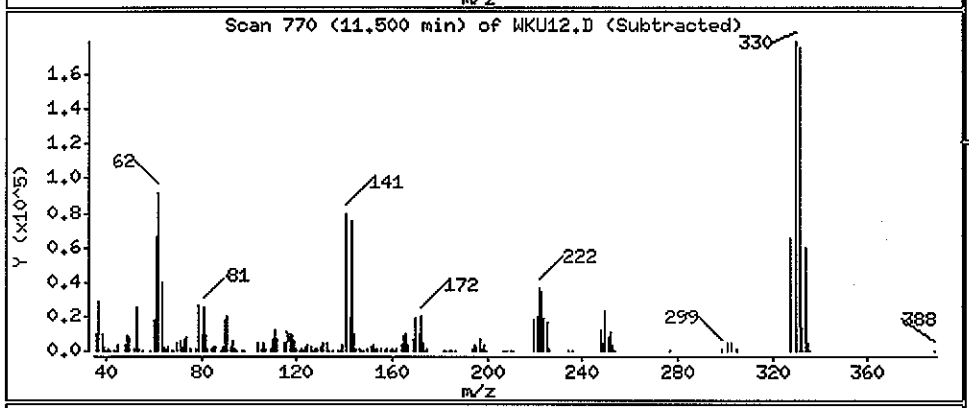
Sample Info: MSS,176248-003

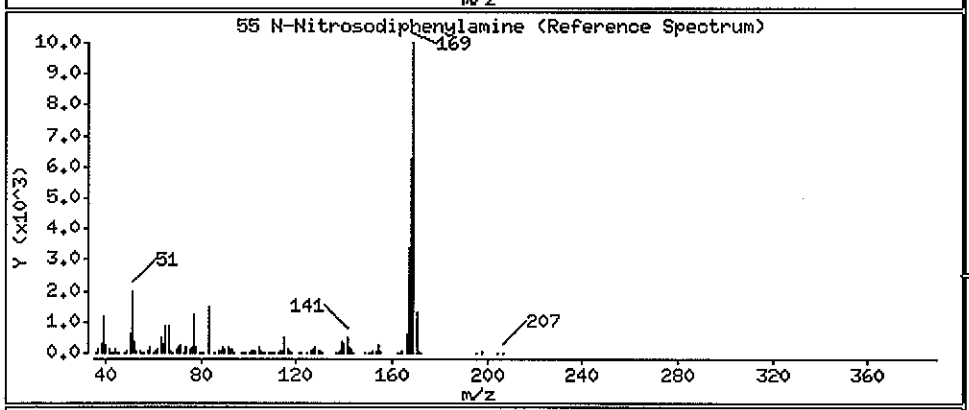
Volume Injected (uL): 1.0 | Operator: BVD

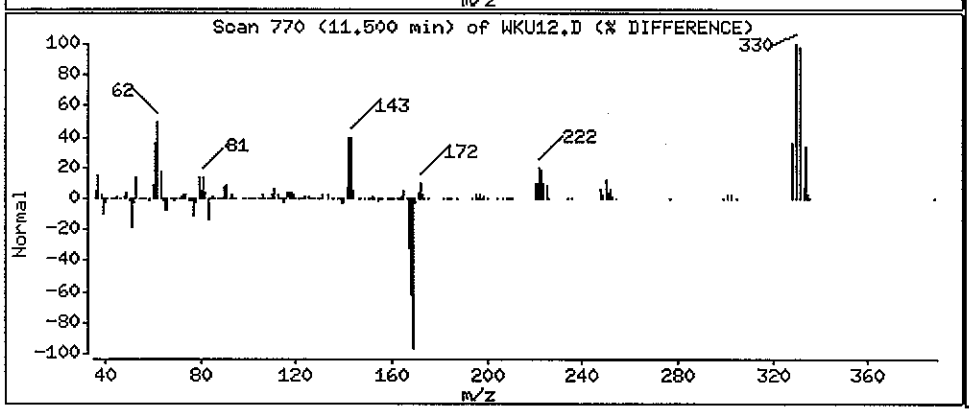
Column phase: Xti 5 x .5 u | Column diameter: 0.25

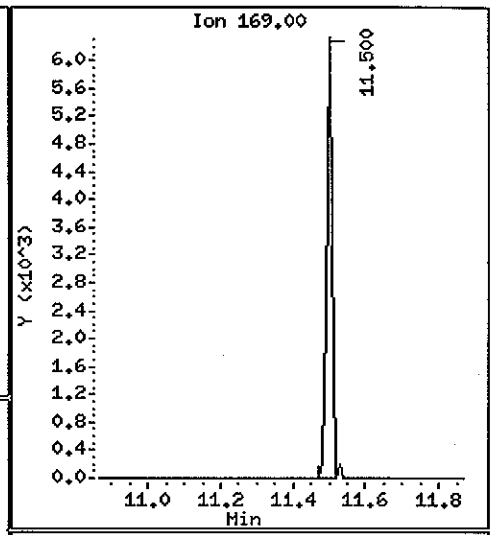
55 N-Nitrosodiphenylamine | Concentration: 0.7756 ug/L

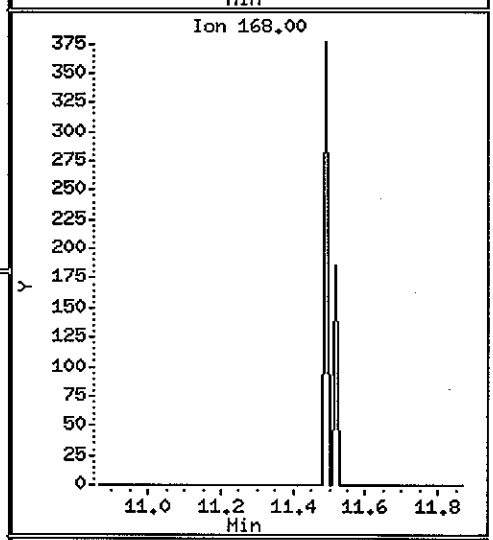


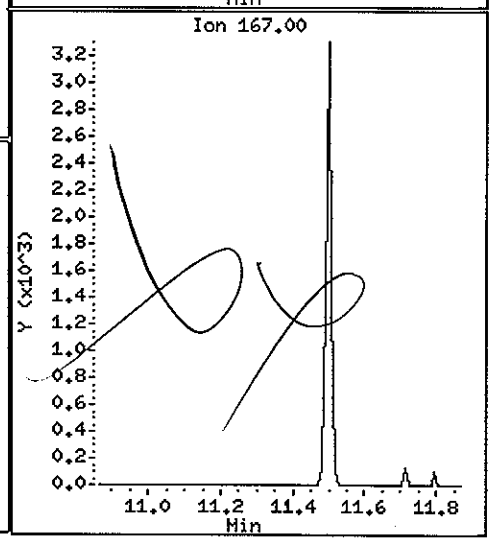












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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

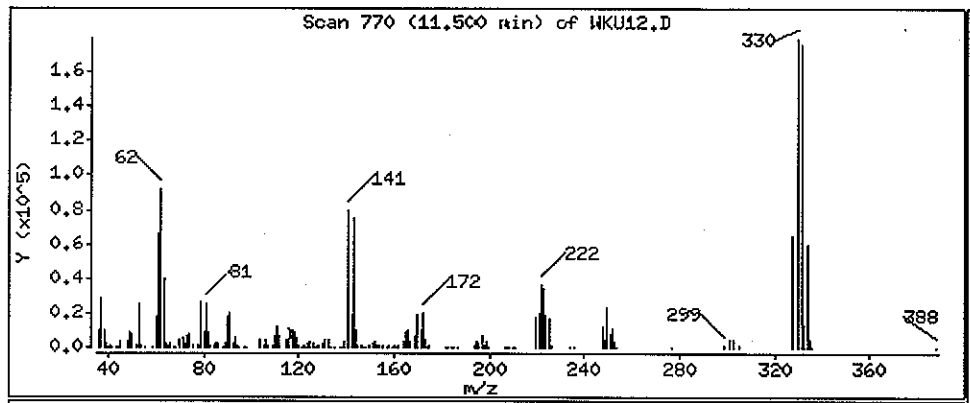
Operator: BVD

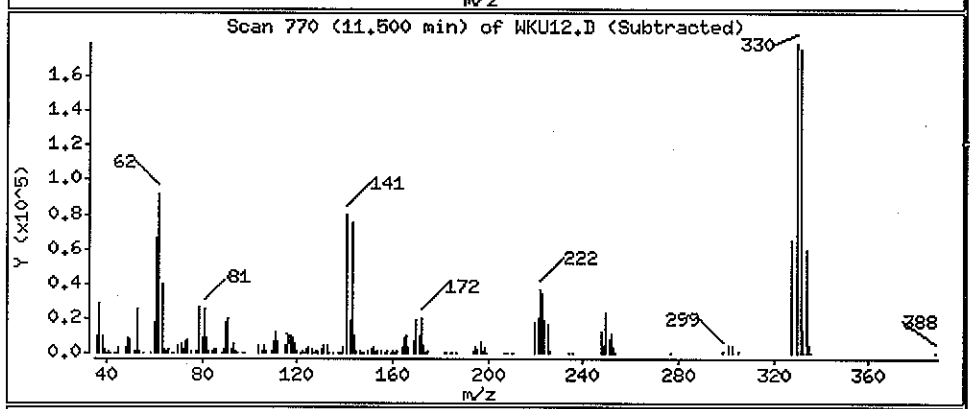
Column phase: Xti 5 x .5 u

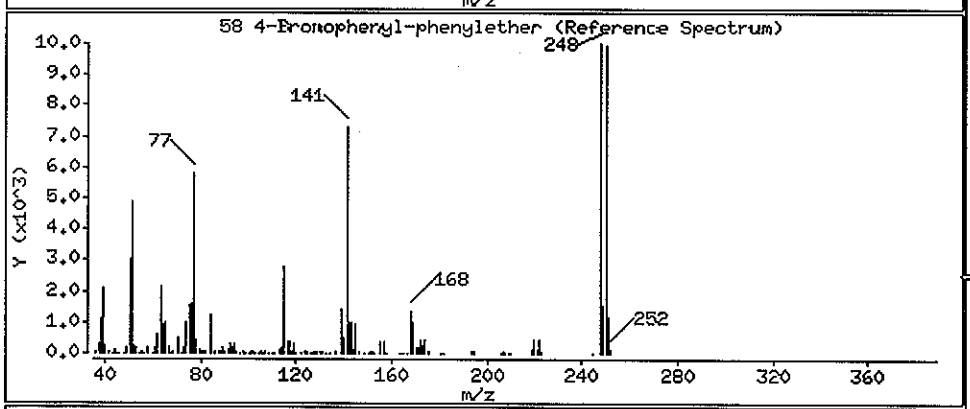
Column diameter: 0.25

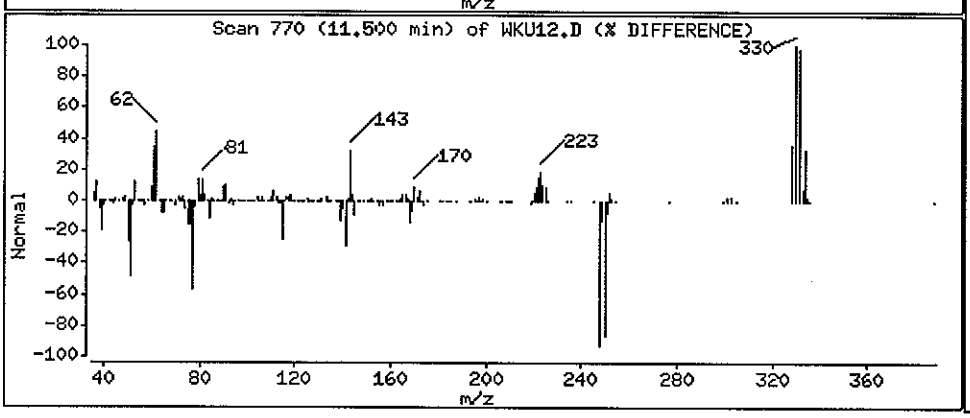
58 4-Bromophenyl-phenylether

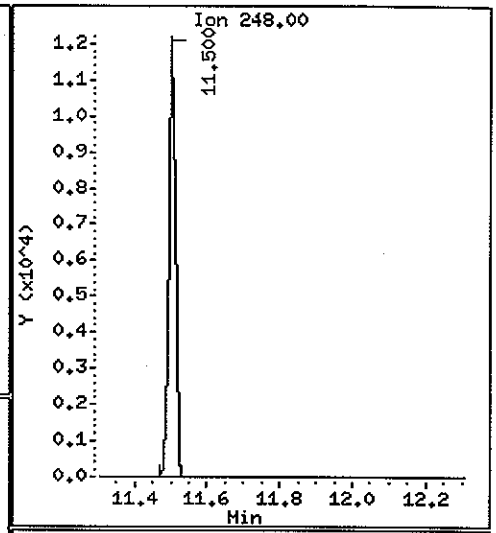
Concentration: 2.8142 ug/L

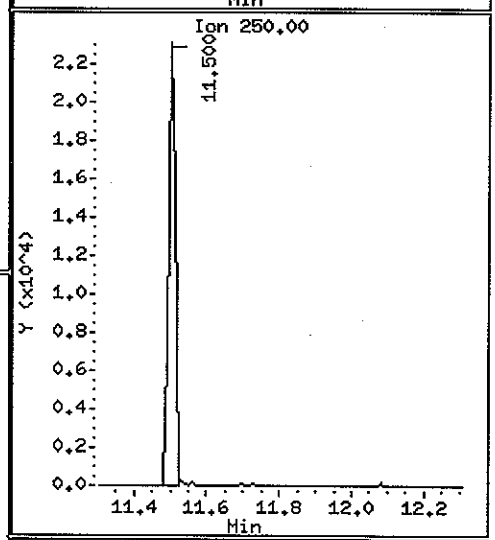


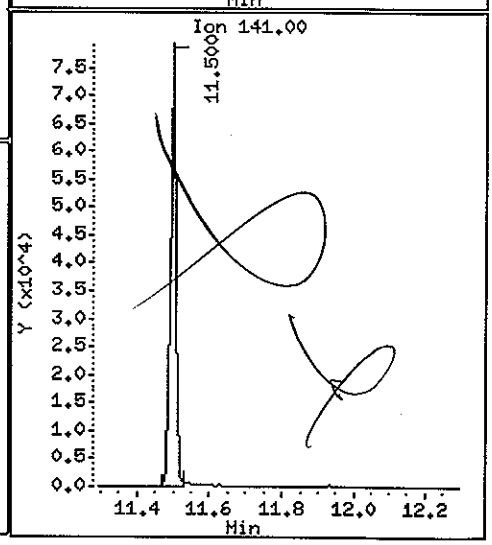












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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

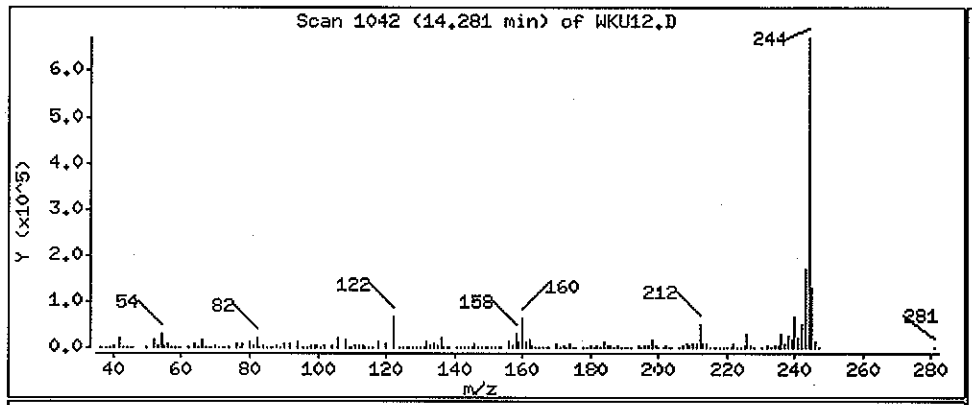
Operator: BVD

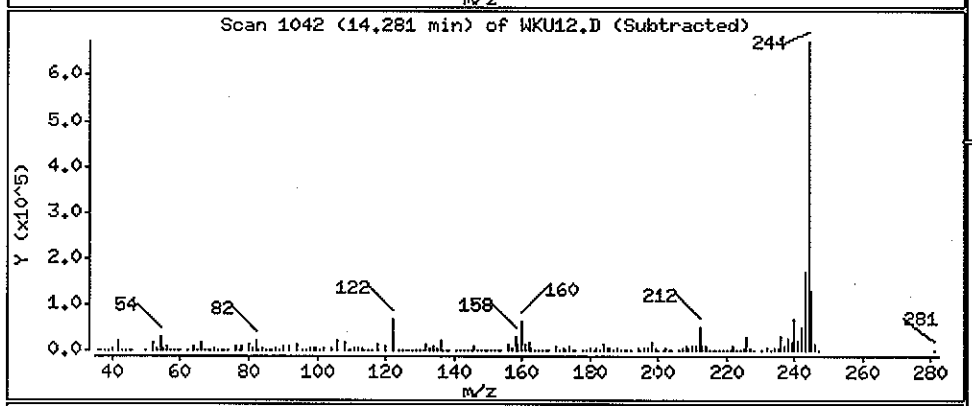
Column phase: Xti 5 x .5 u

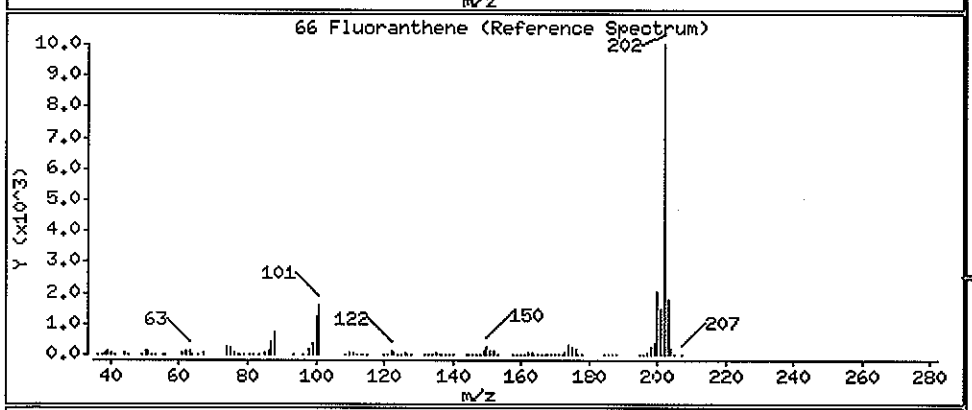
Column diameter: 0.25

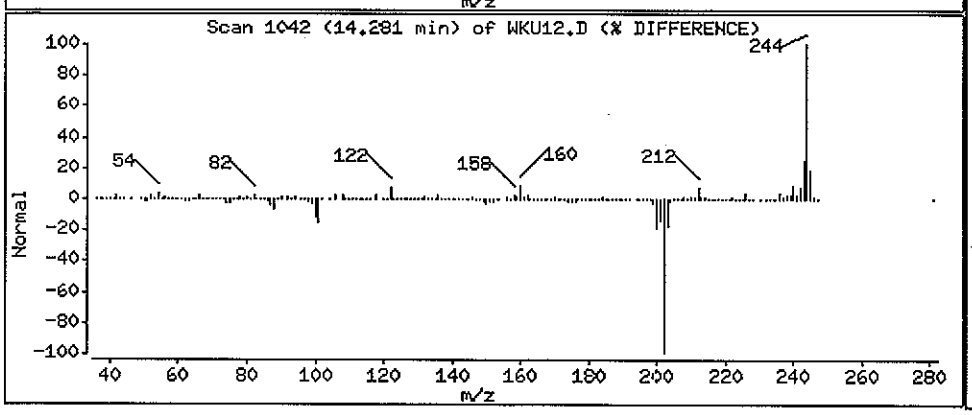
66 Fluoranthene

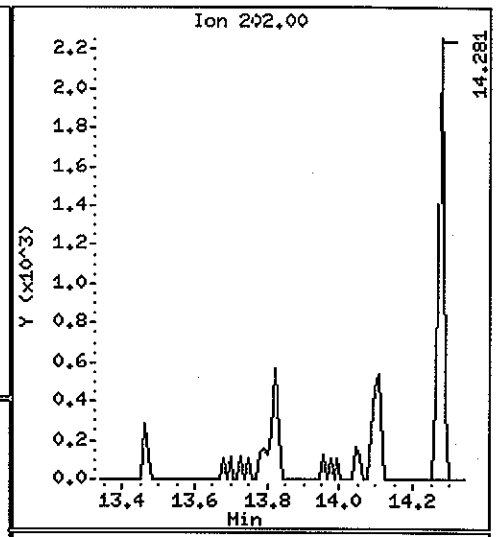
Concentration: 0.1042 ug/L

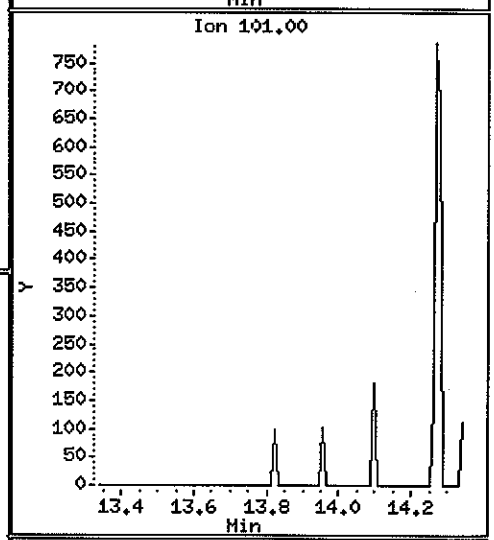


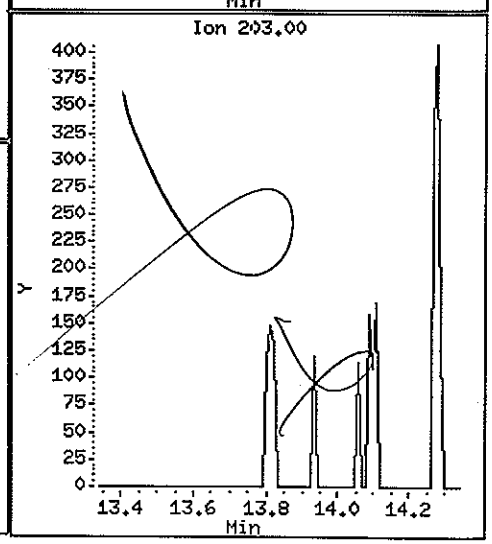












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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

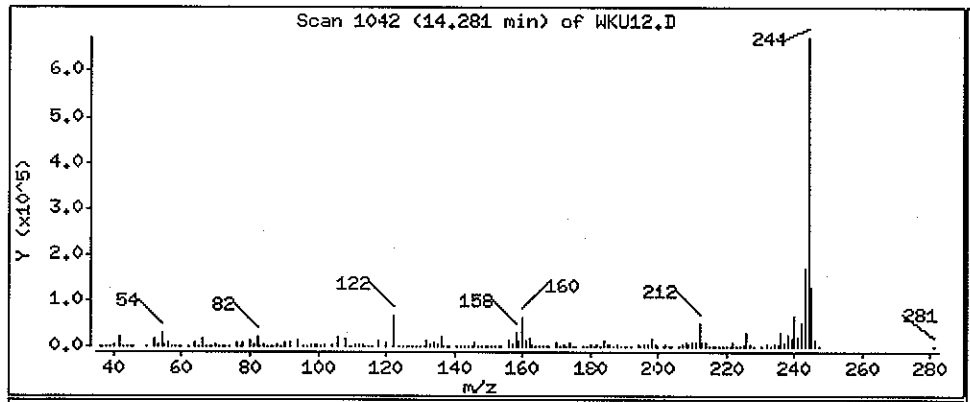
Operator: BVD

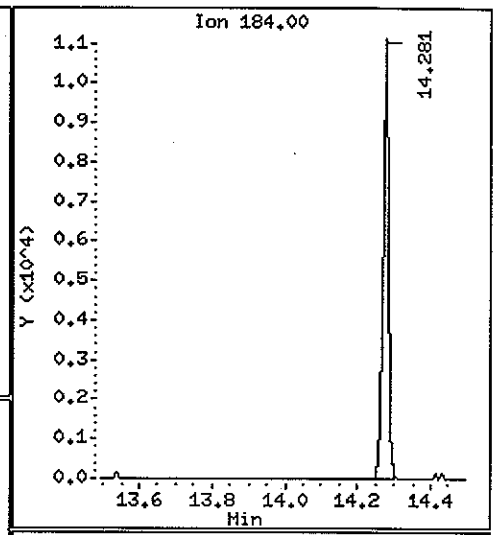
Column phase: Xti 5 x .5 u

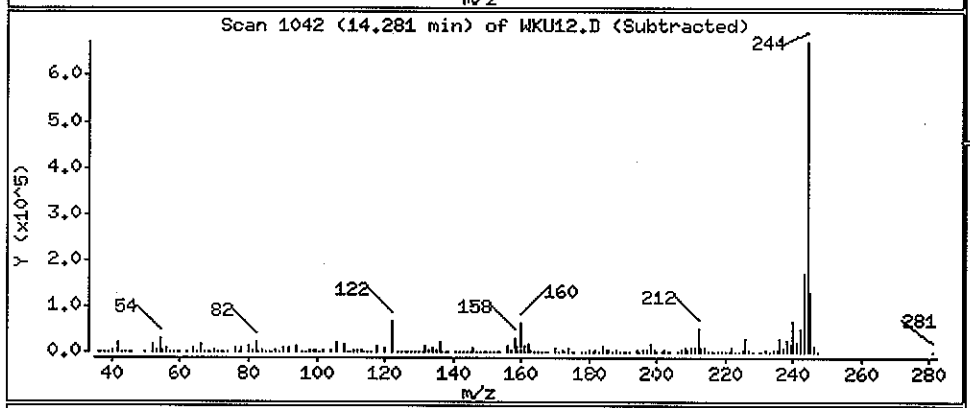
Column diameter: 0.25

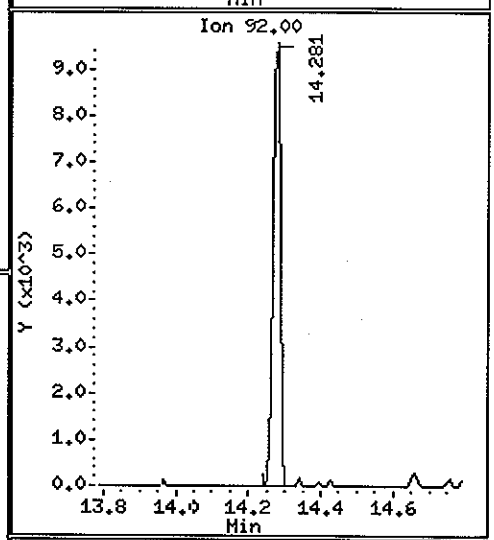
67 Benzidine

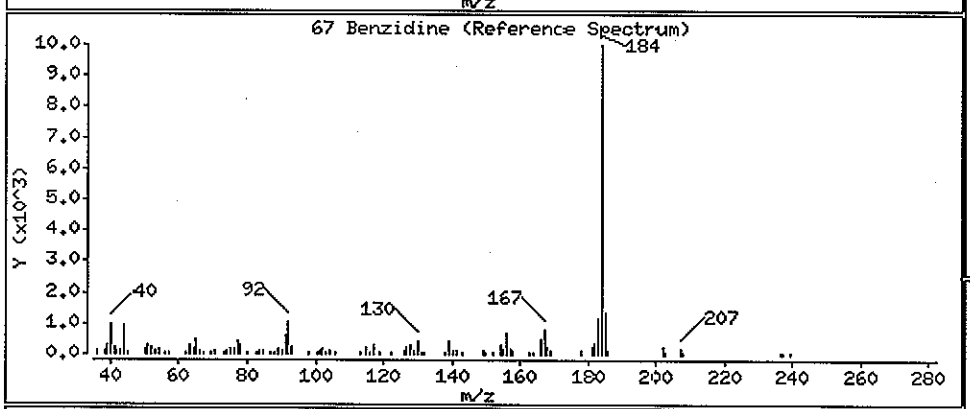
Concentration: 9.3791 ug/L

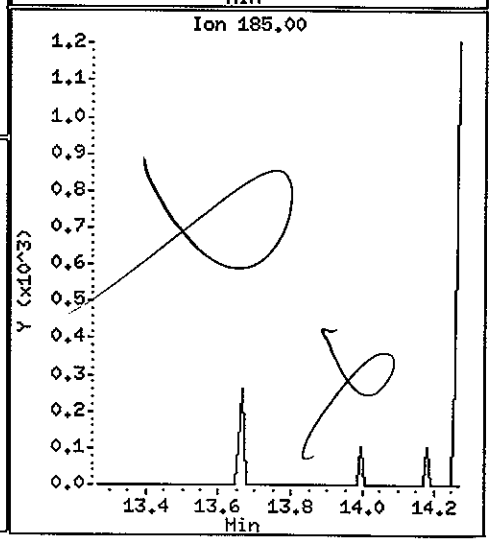


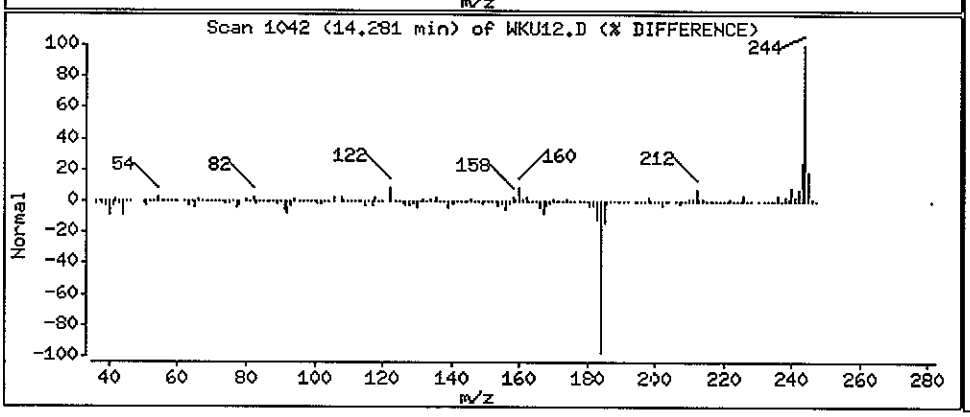












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

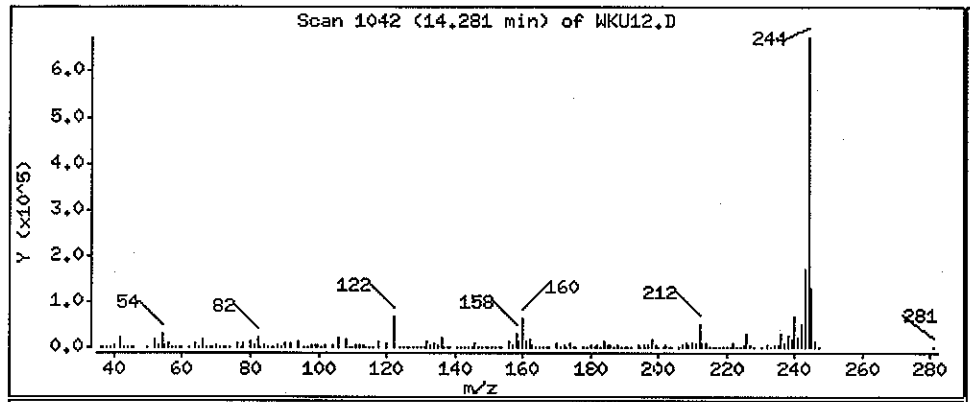
Operator: BVD

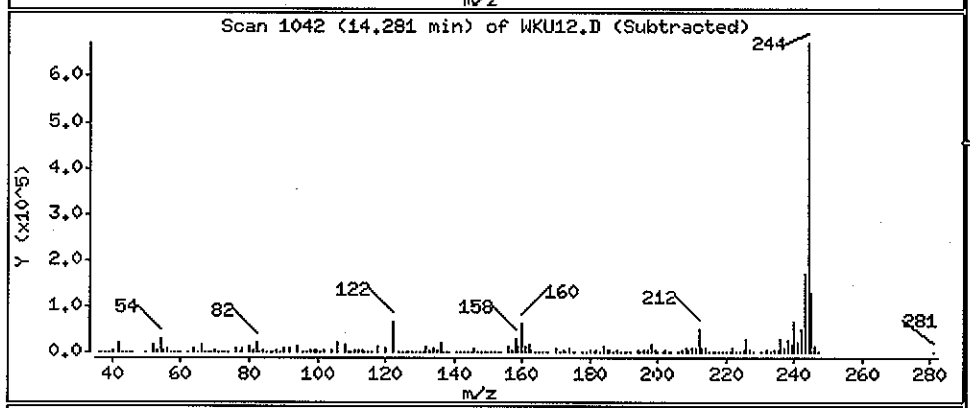
Column phase: Xti 5 x .5 u

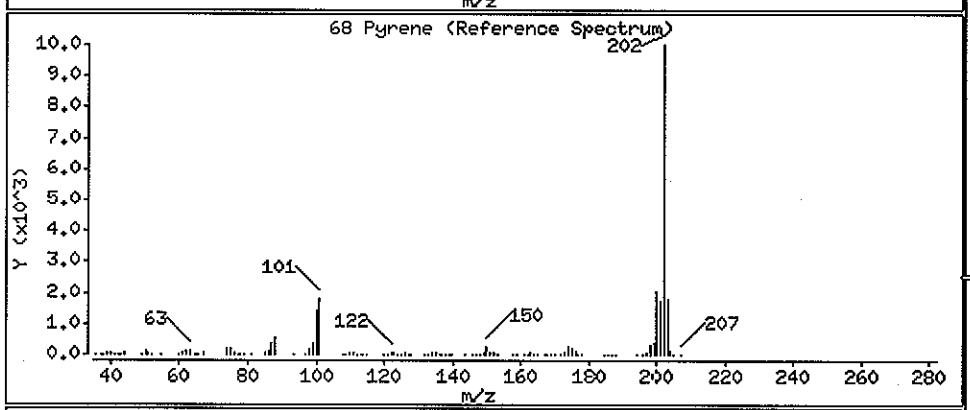
Column diameter: 0.25

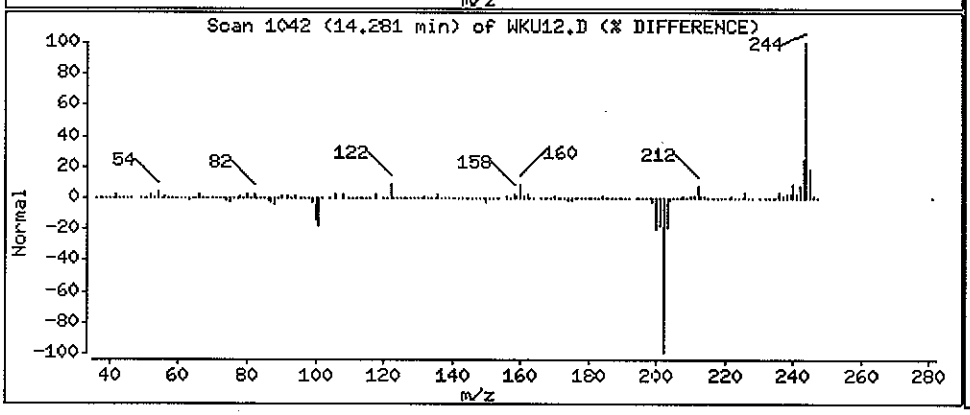
68 Pyrene

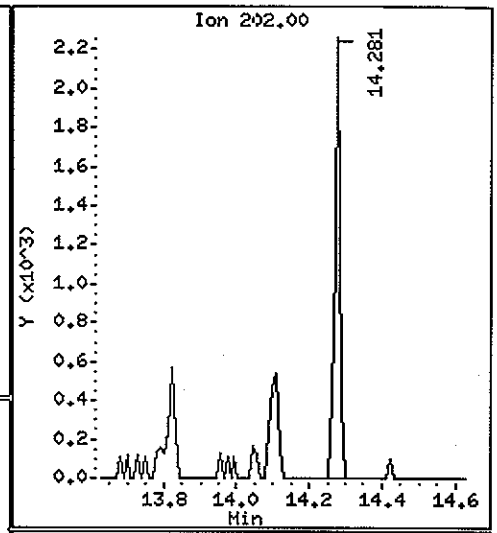
Concentration: 0.0967 ug/L

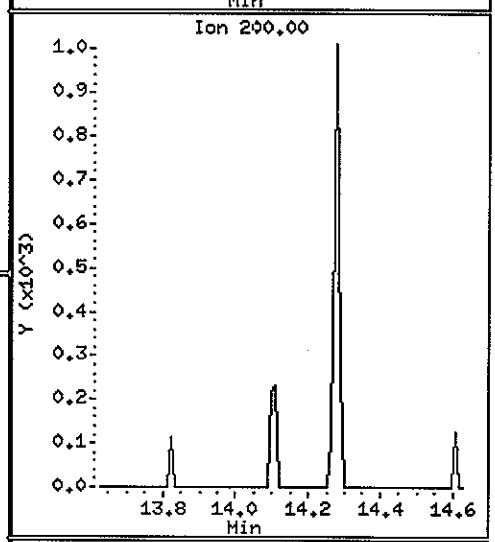


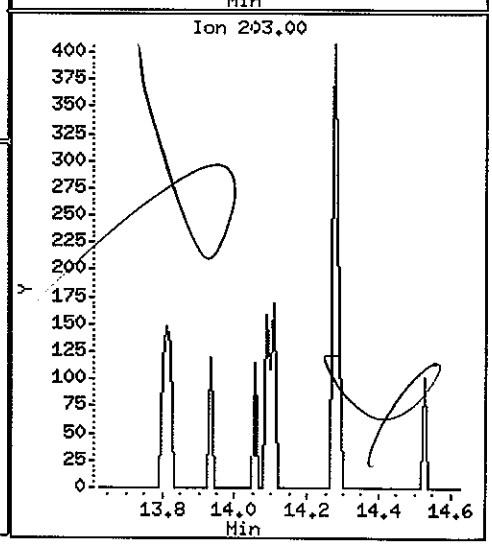












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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

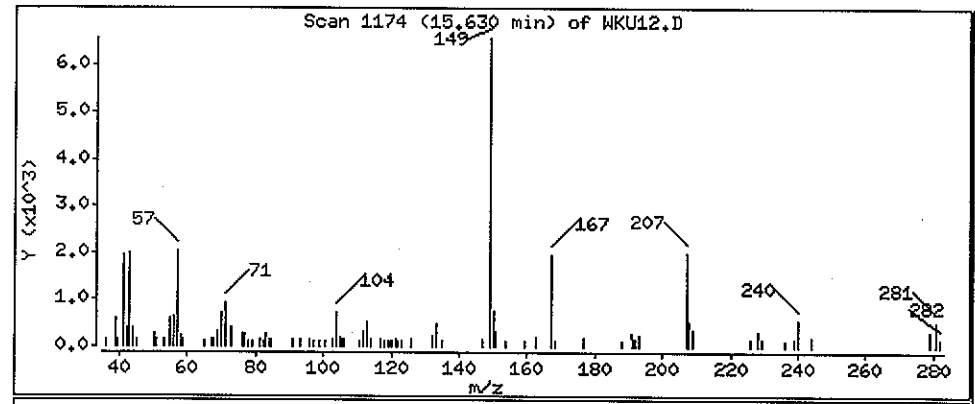
Operator: BVD

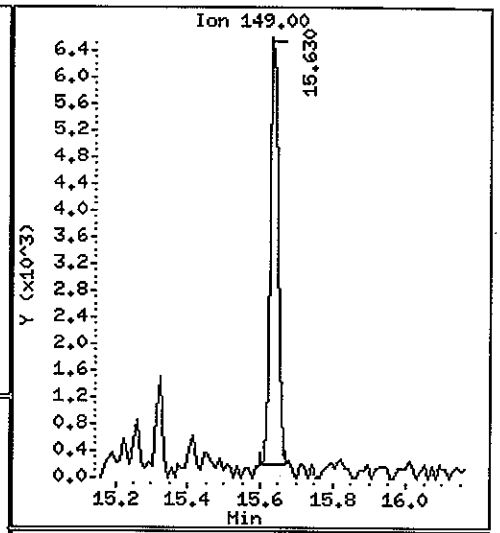
Column phase: Xti 5 x .5 u

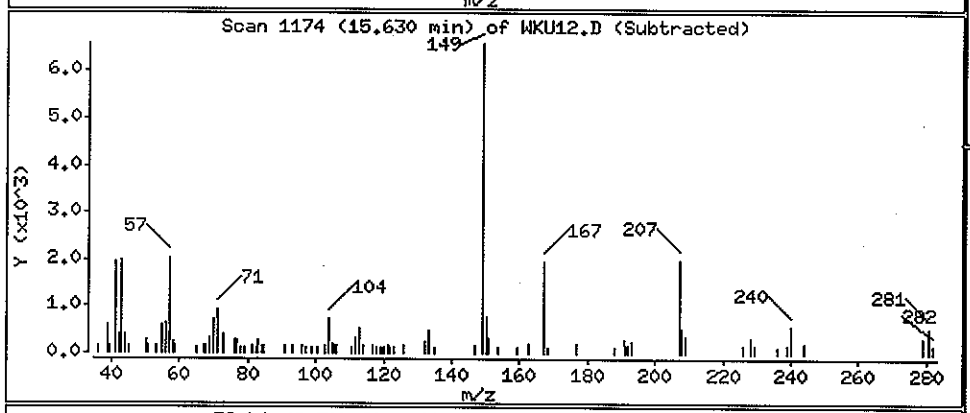
Column diameter: 0.25

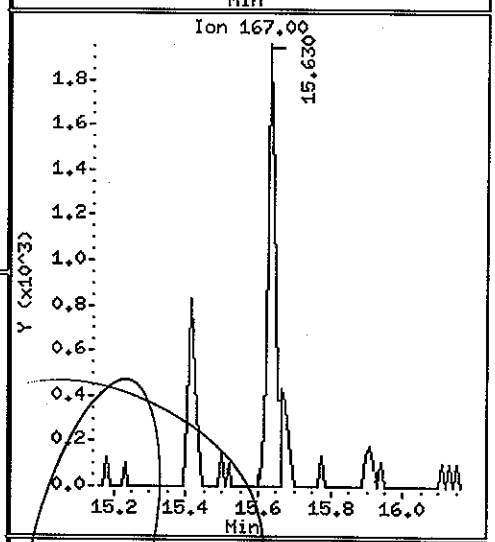
72 bis(2-Ethylhexyl)phthalate

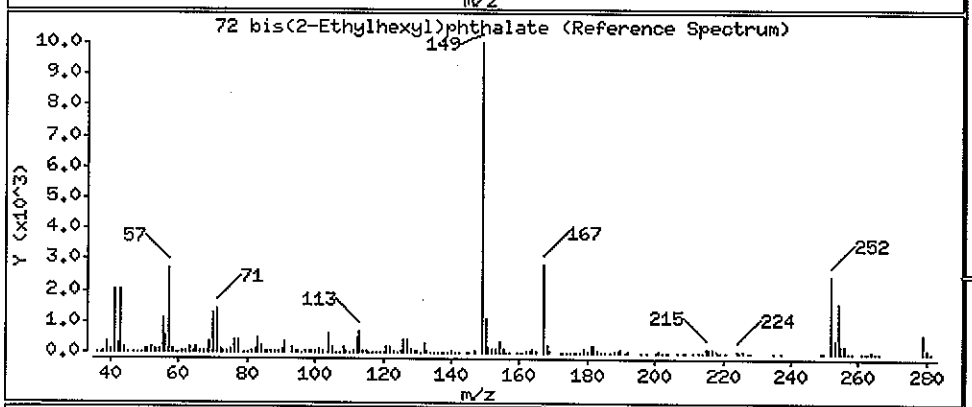
Concentration: 0.4401 ug/L

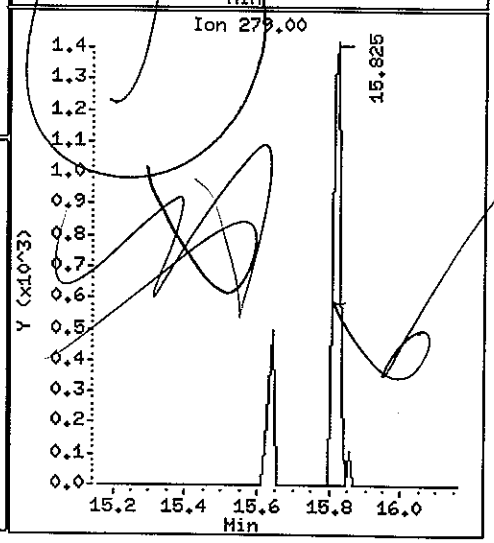


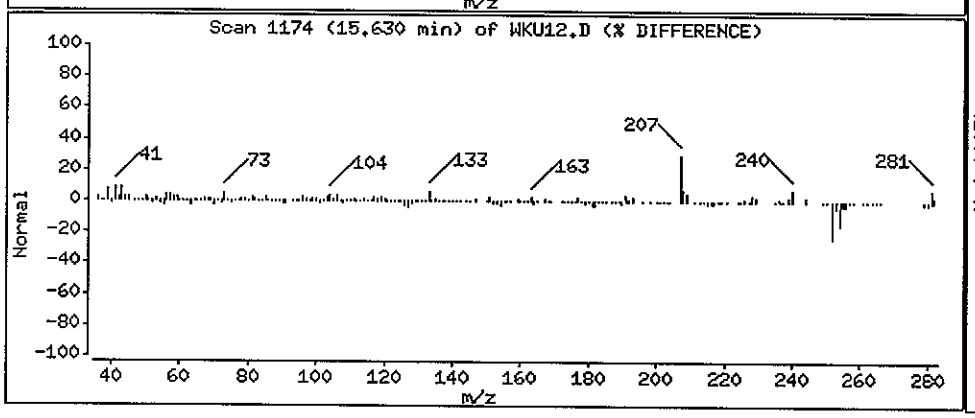












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

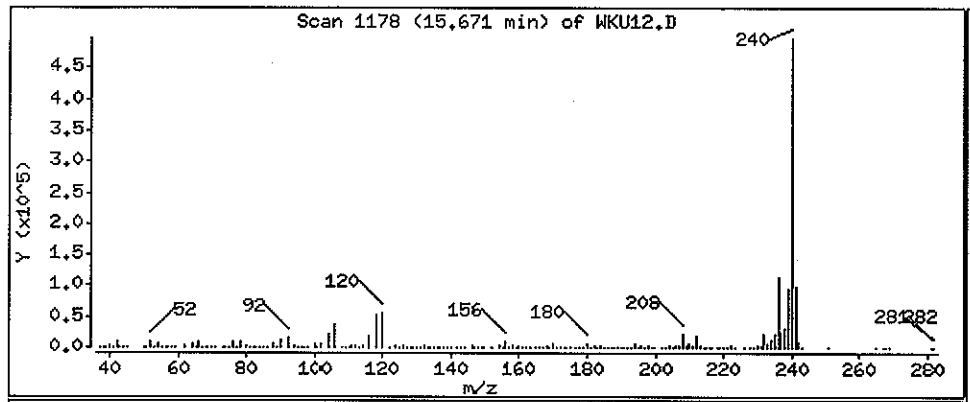
Operator: BVD

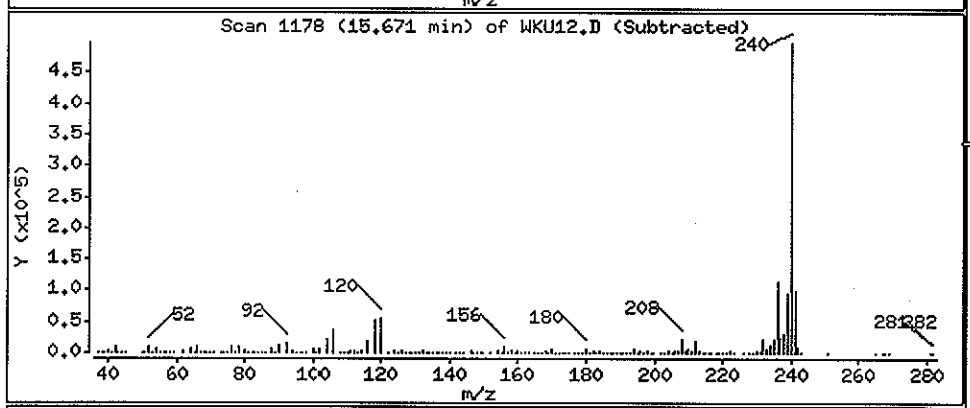
Column phase: Xti 5 x .5 u

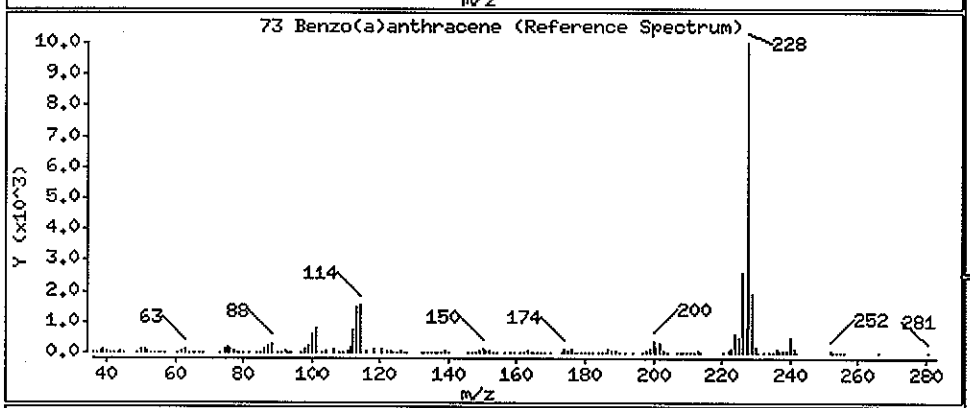
Column diameter: 0.25

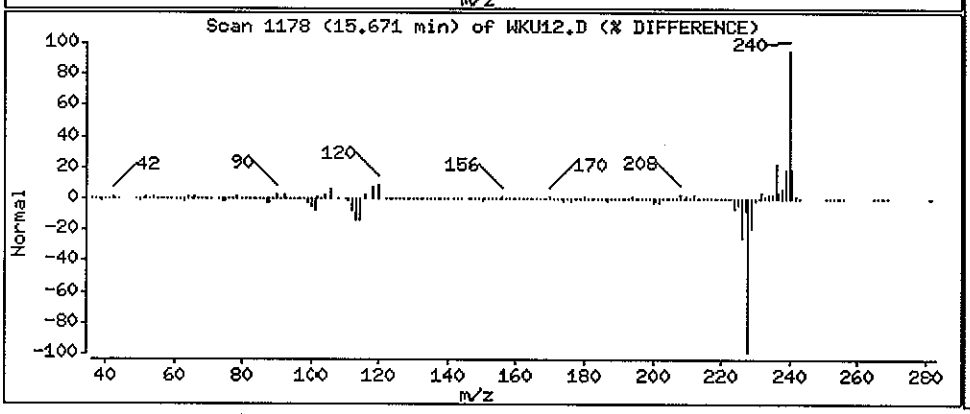
73 Benzo(a)anthracene

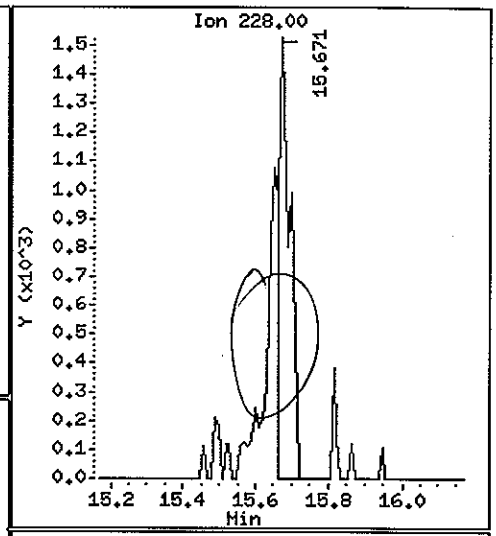
Concentration: 0.1441 ug/L

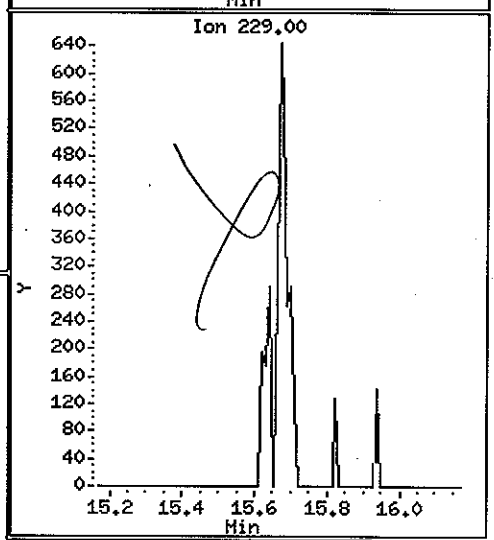


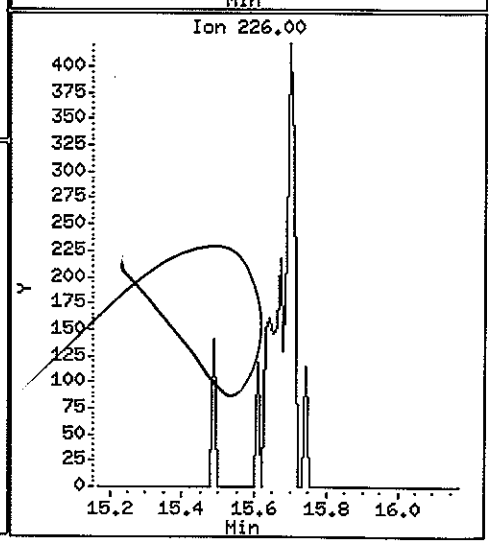












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

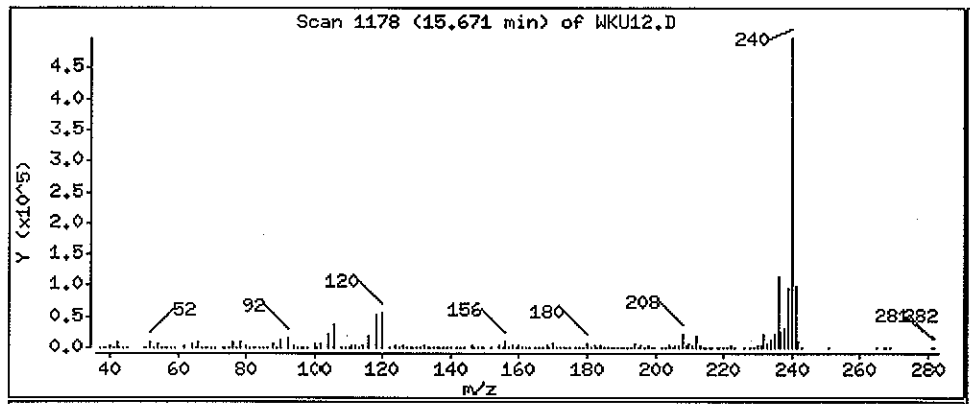
Operator: BVD

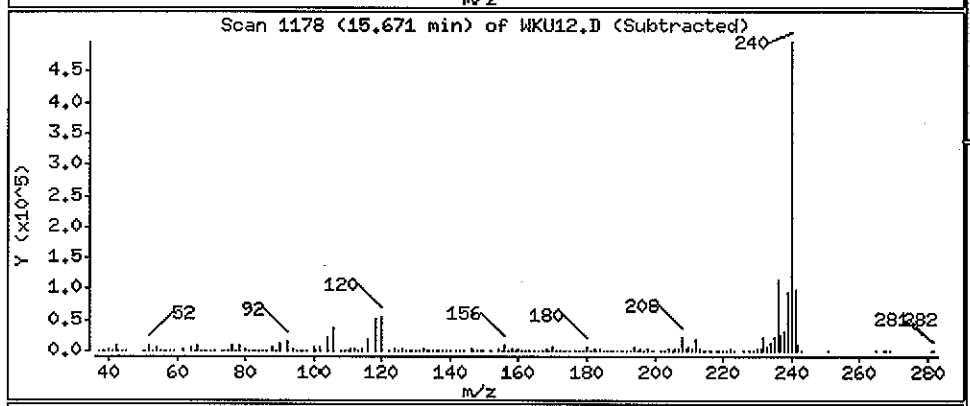
Column phase: Xti 5 x .5 u

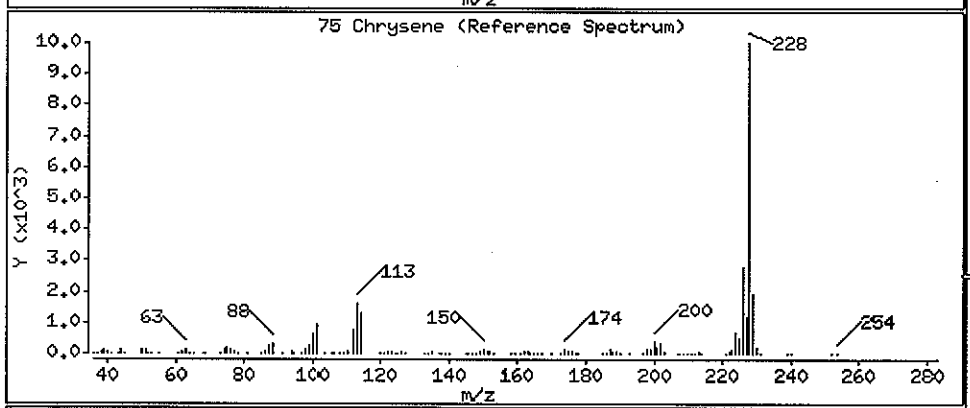
Column diameter: 0.25

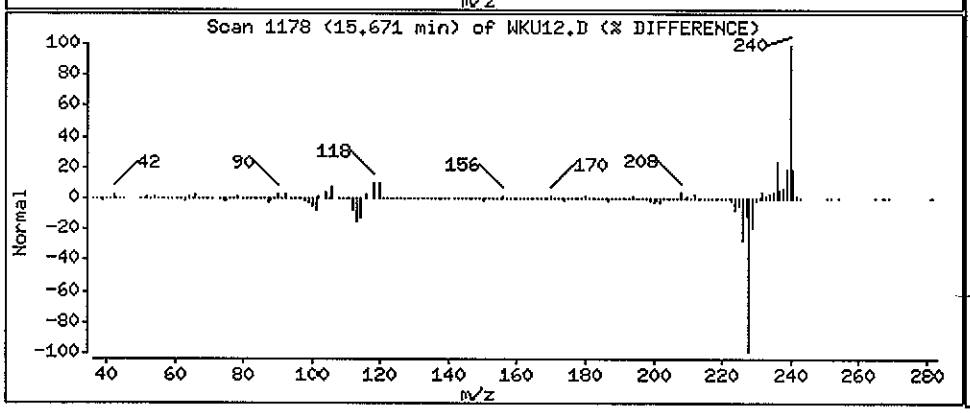
75 Chrysene

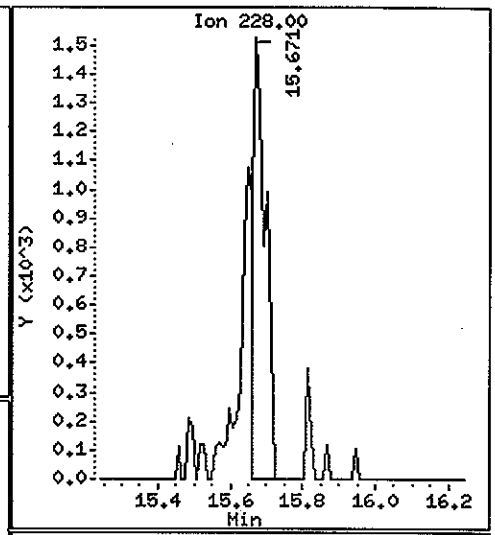
Concentration: 0.1639 ug/L

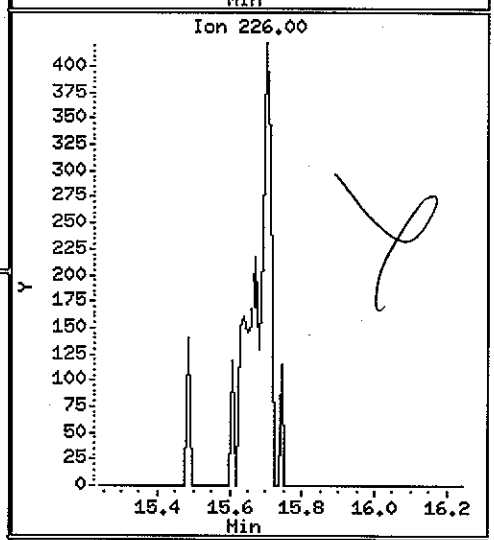


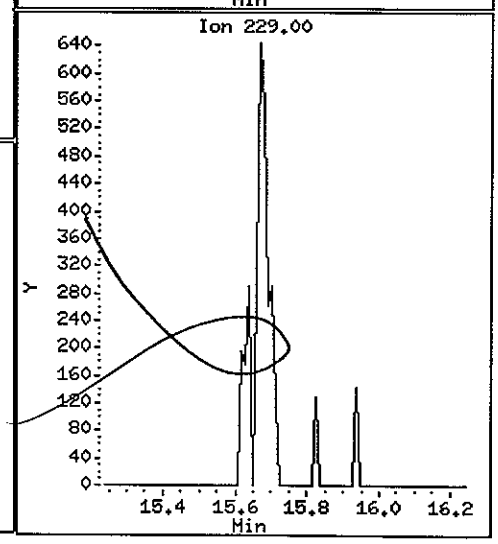












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

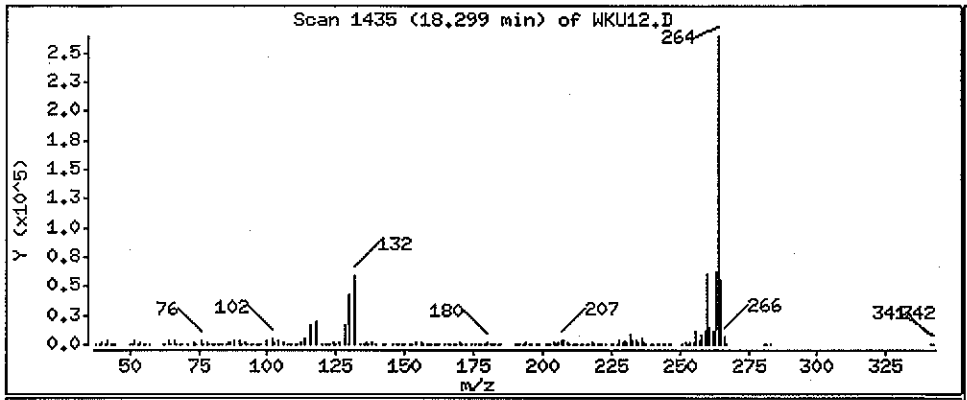
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

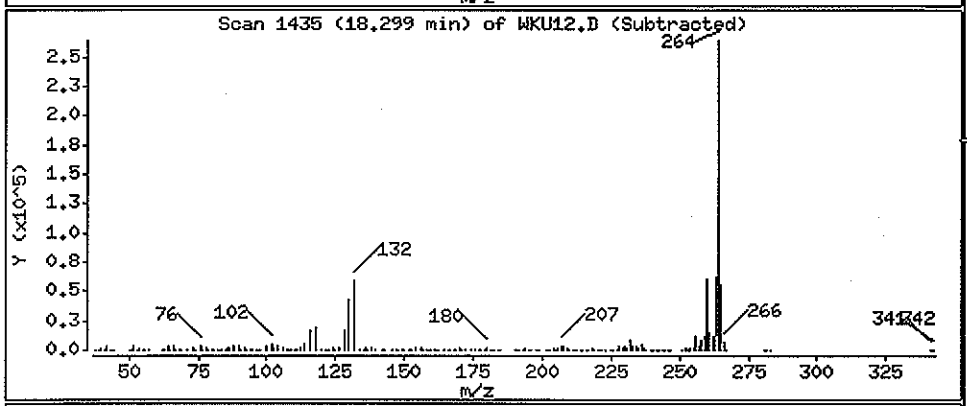
Sample Info: MSS,176248-003

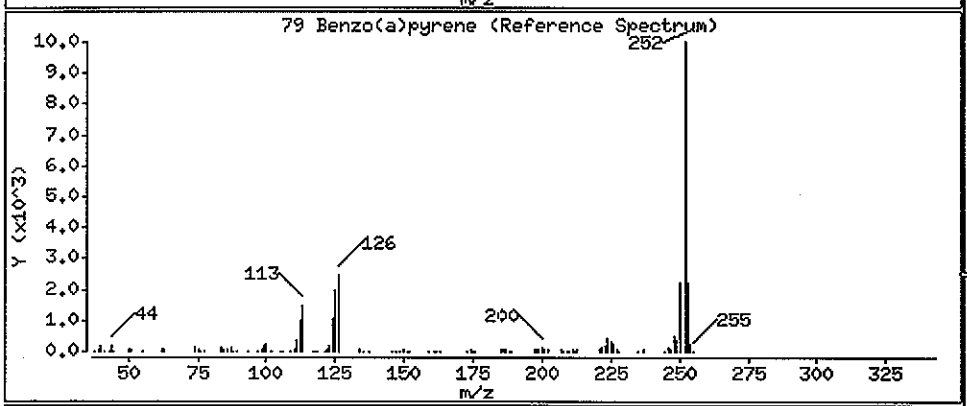
Volume Injected (uL): 1.0 | Operator: BVD

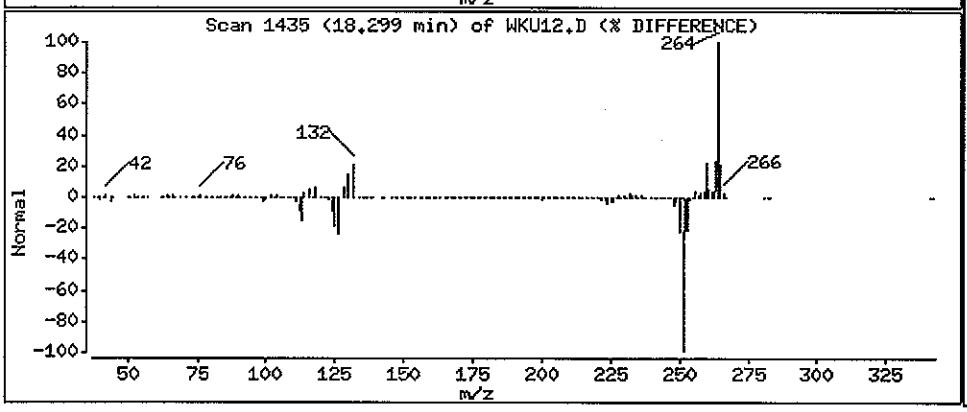
Column phase: Xti 5 x .5 u | Column diameter: 0.25

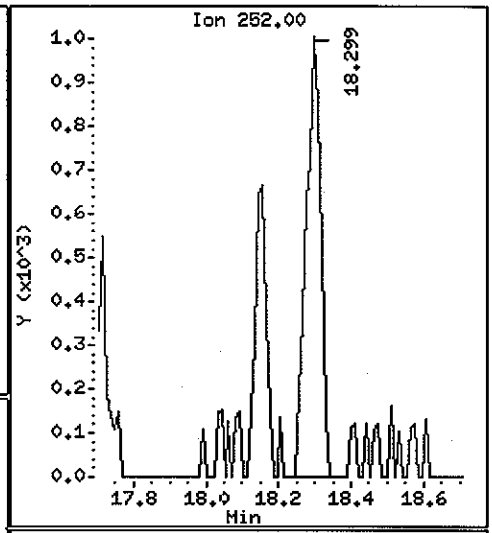
79 Benzo(a)pyrene | Concentration: 0.1299 ug/L

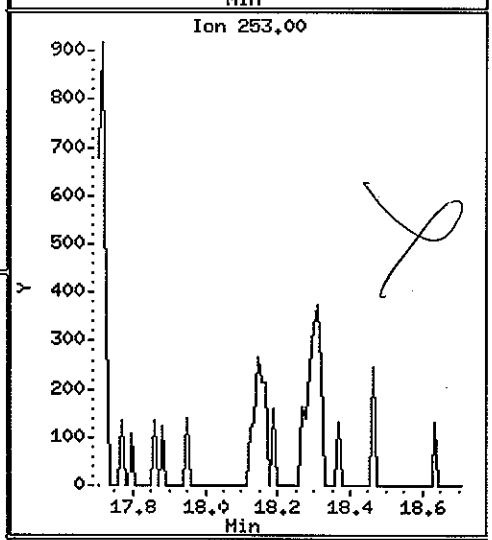


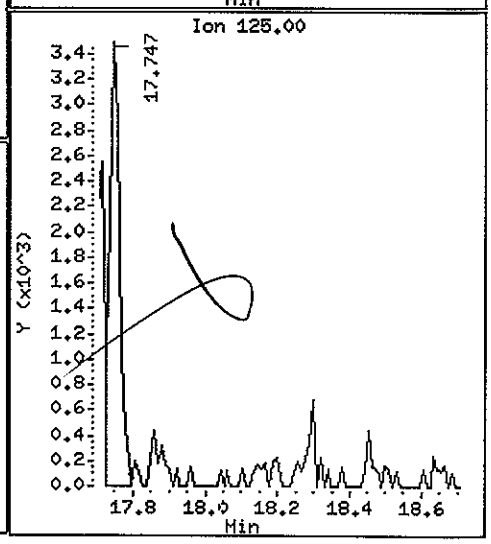












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0

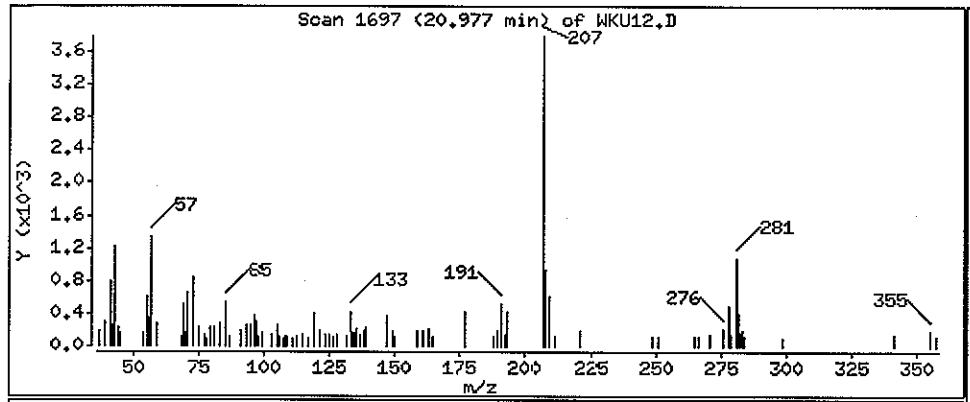
Operator: BVD

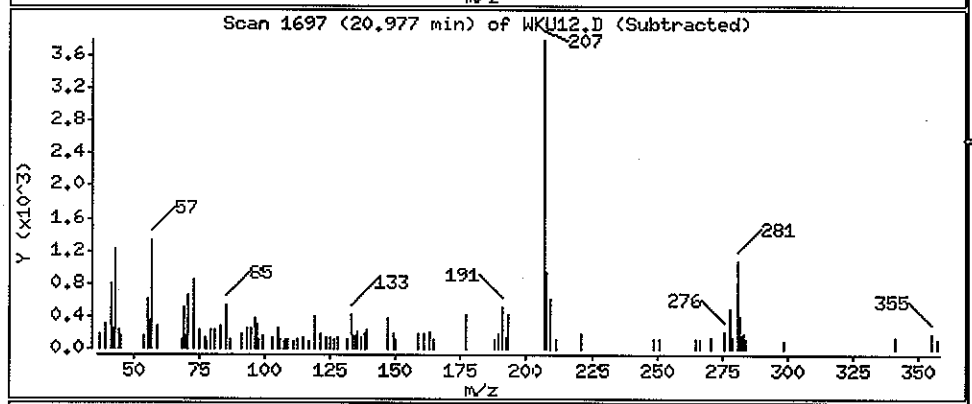
Column phase: Xti 5 x .5 u

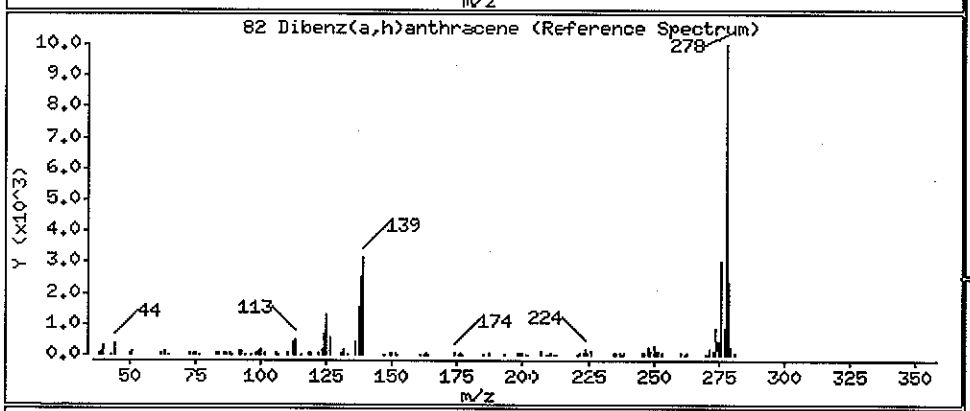
Column diameter: 0.25

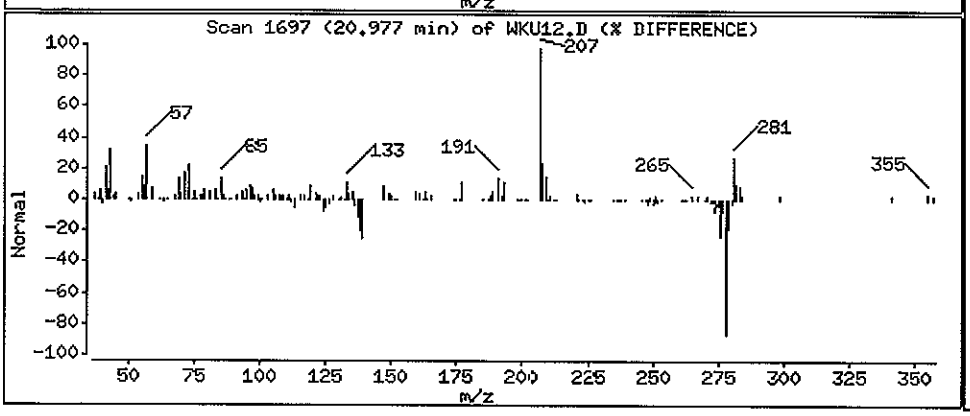
82 Dibenz(a,h)anthracene

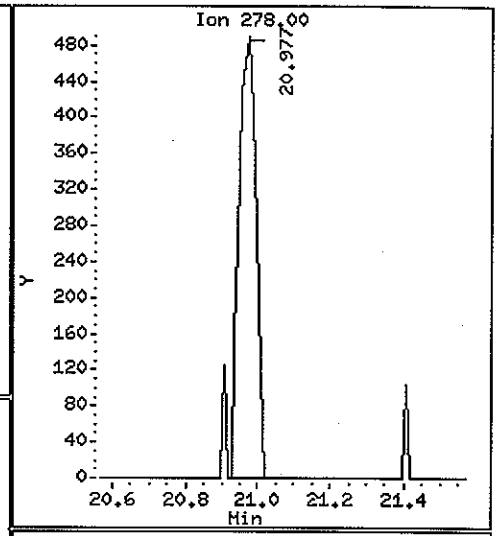
Concentration: 0.0939 ug/L

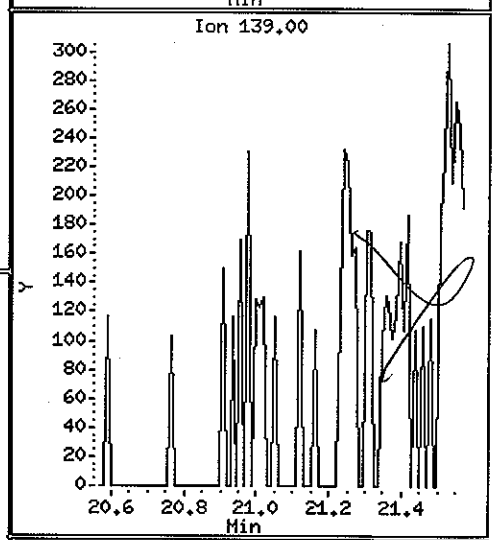


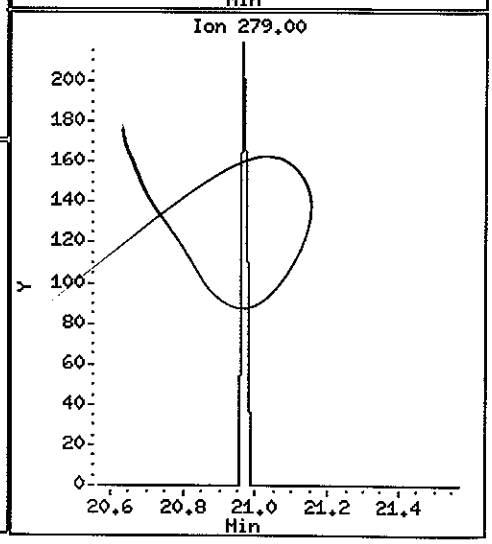












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Toluene	108-88-3	nbs75k.l	965	94	C7H8	92
Toluene	108-88-3	nbs75k.l	63031	90	C7H8	92
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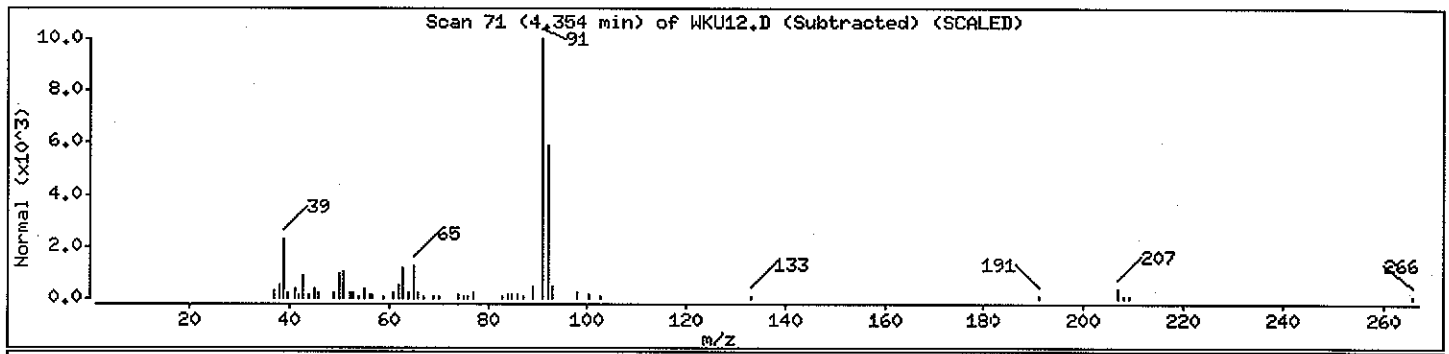

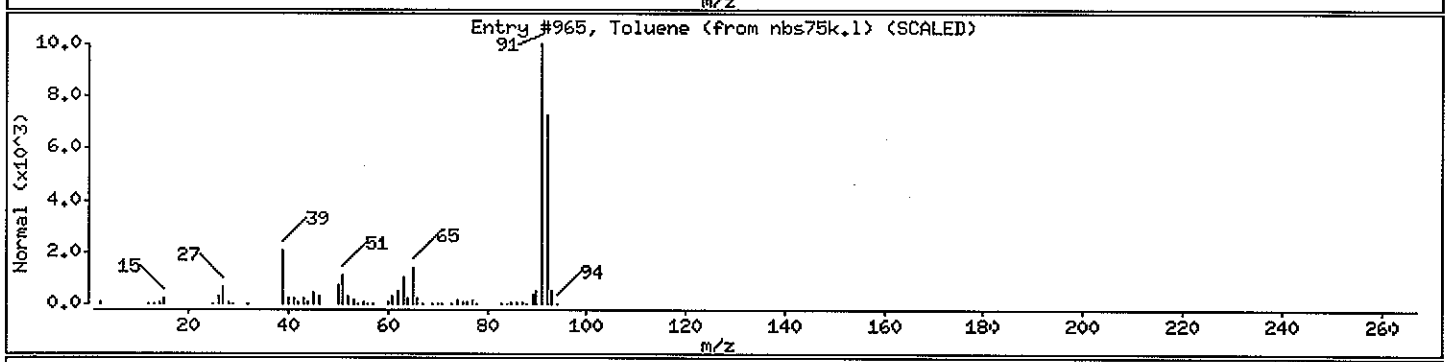

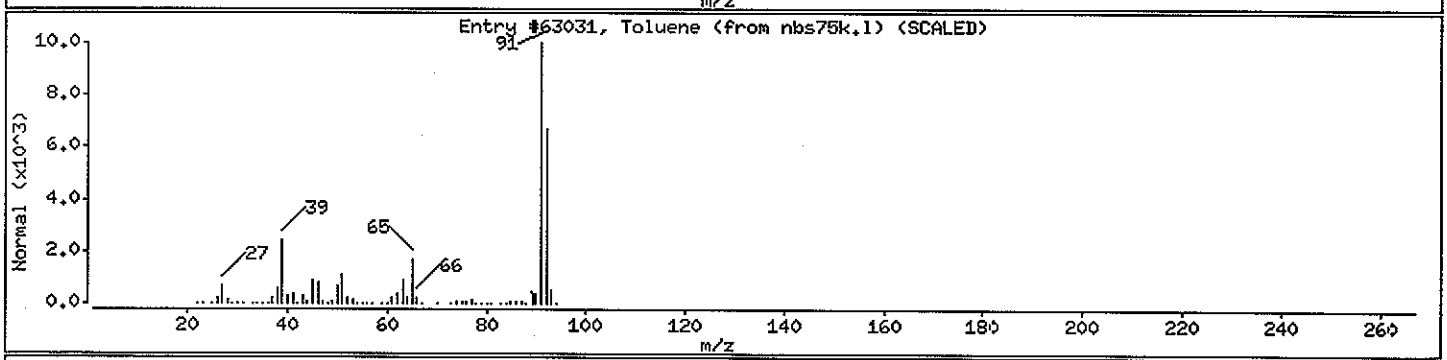

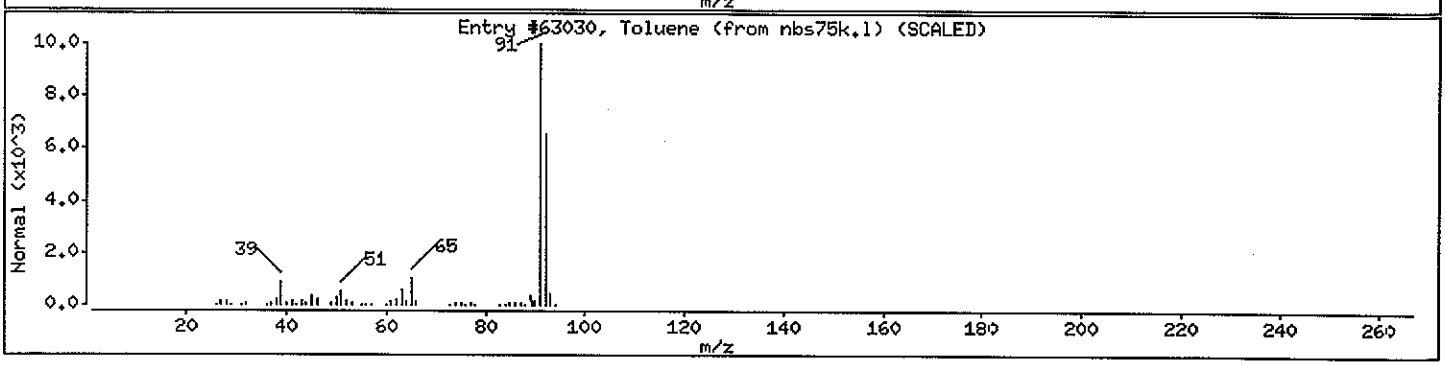

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Date : 30-NOV-2004 17:51

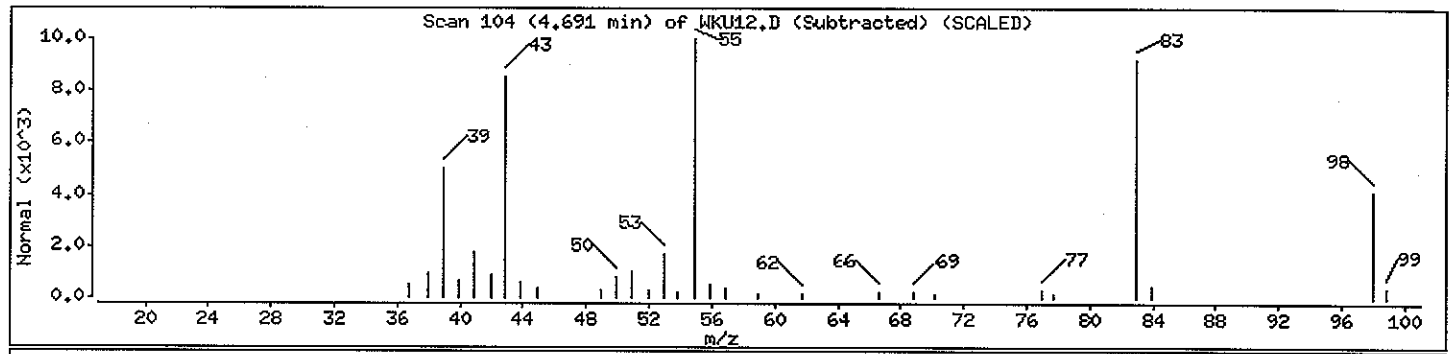
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

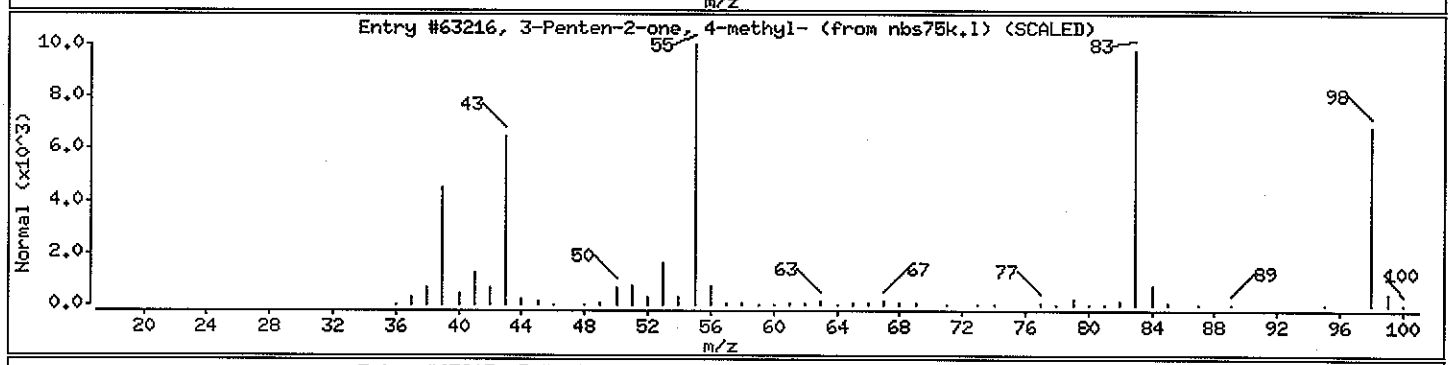
Sample Info: MSS,176248-003

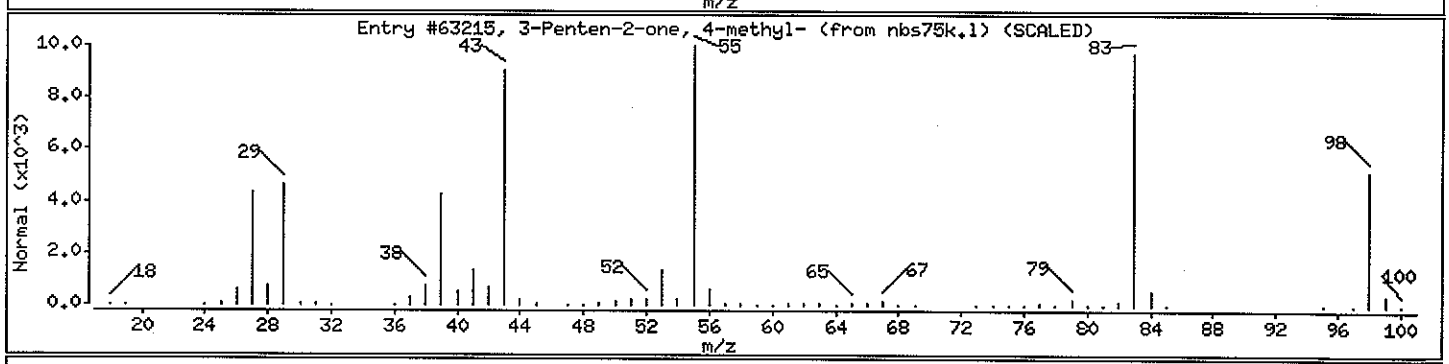
Volume Injected (uL): 1.0 | Operator: BVD

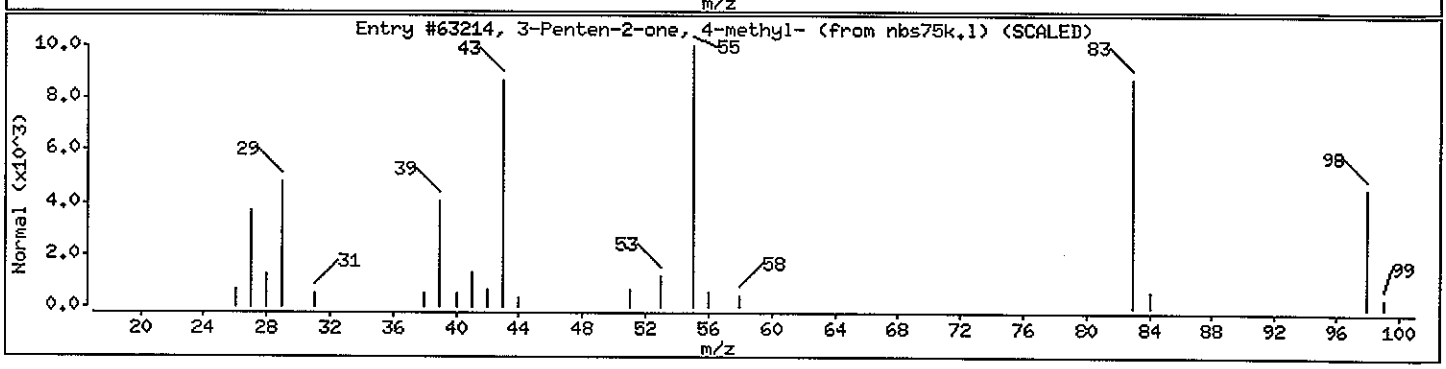
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Penten-2-one, 4-methyl-	141-79-7	nbs75k.l	63216	91	C6H10O	98
3-Penten-2-one, 4-methyl-	141-79-7	nbs75k.l	63215	91	C6H10O	98
3-Penten-2-one, 4-methyl-	141-79-7	nbs75k.l	63214	81	C6H10O	98









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Date : 30-NOV-2004 17:51

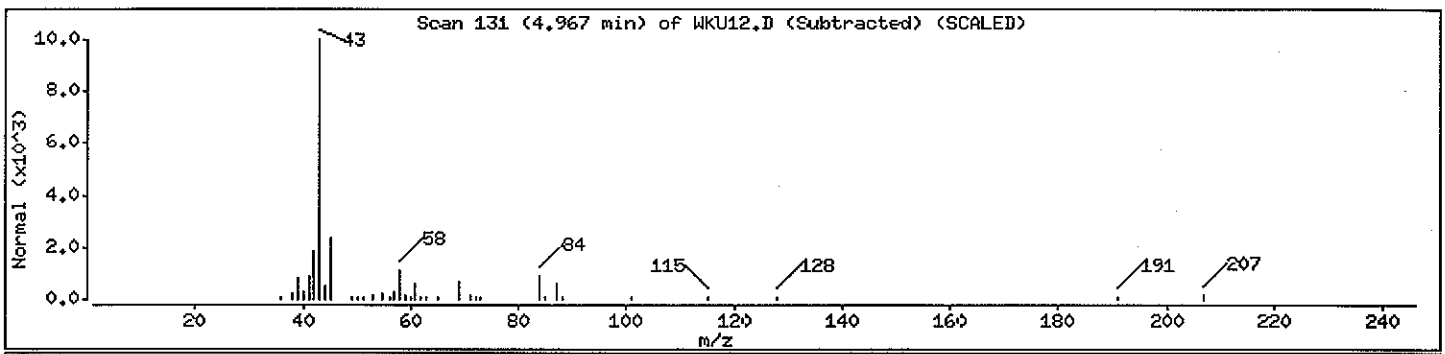
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

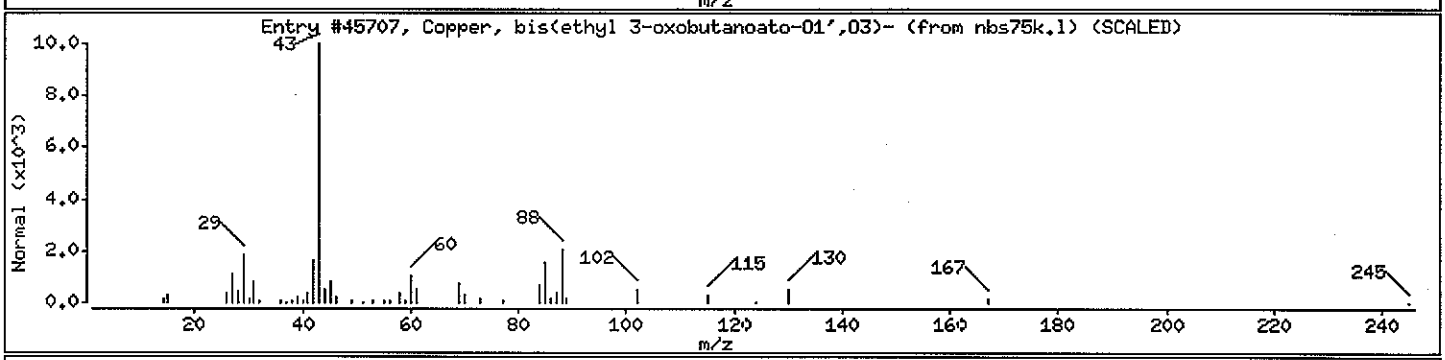
Sample Info: MSS,176248-003

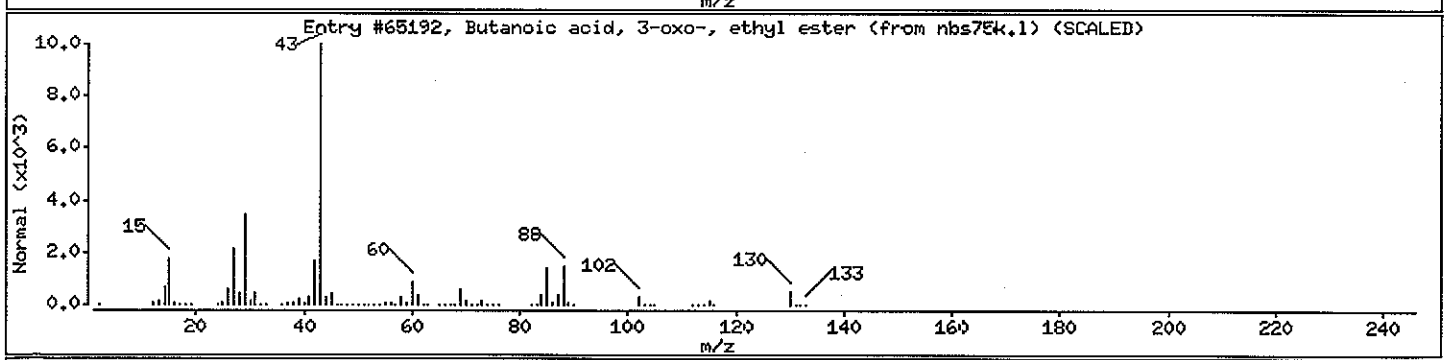
Volume Injected (uL): 1.0 | Operator: BVD

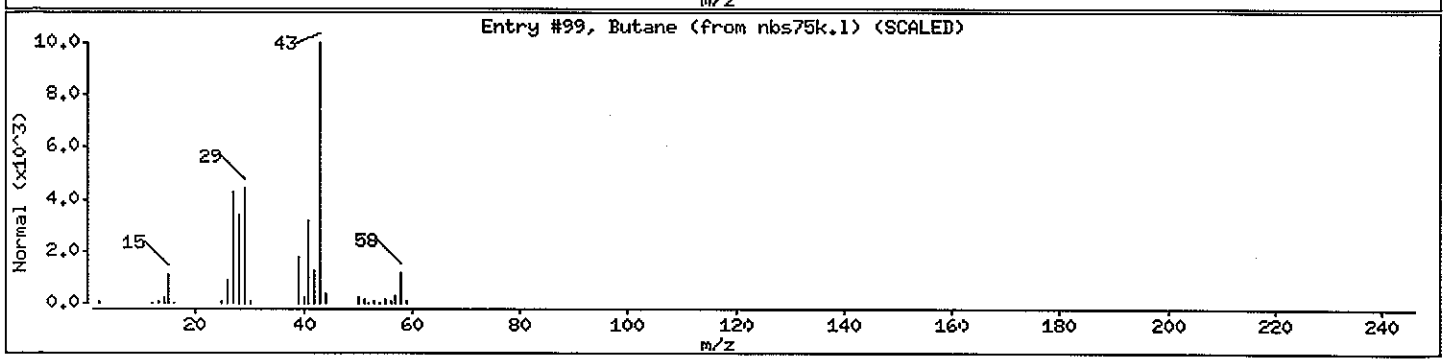
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Copper, bis(ethyl 3-oxobutanoato-O1',O3)	14284-06-1	nbs75k.l	45707	40	C12H18CuO6	321
Butanoic acid, 3-oxo-, ethyl ester	141-97-9	nbs75k.l	65192	33	C6H10O3	130
Butane	106-97-8	nbs75k.l	99	25	C4H10	58









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Date : 30-NOV-2004 17:51

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

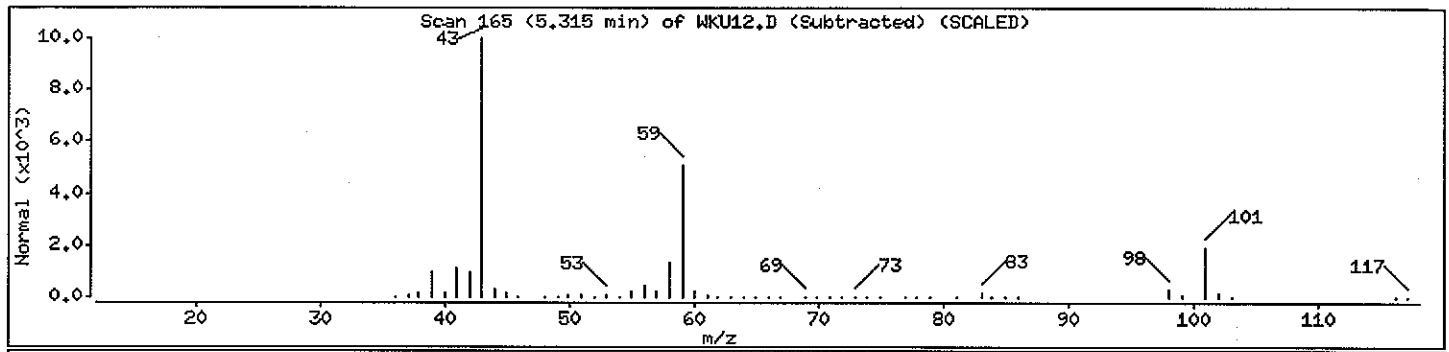
Volume Injected (uL): 1.0

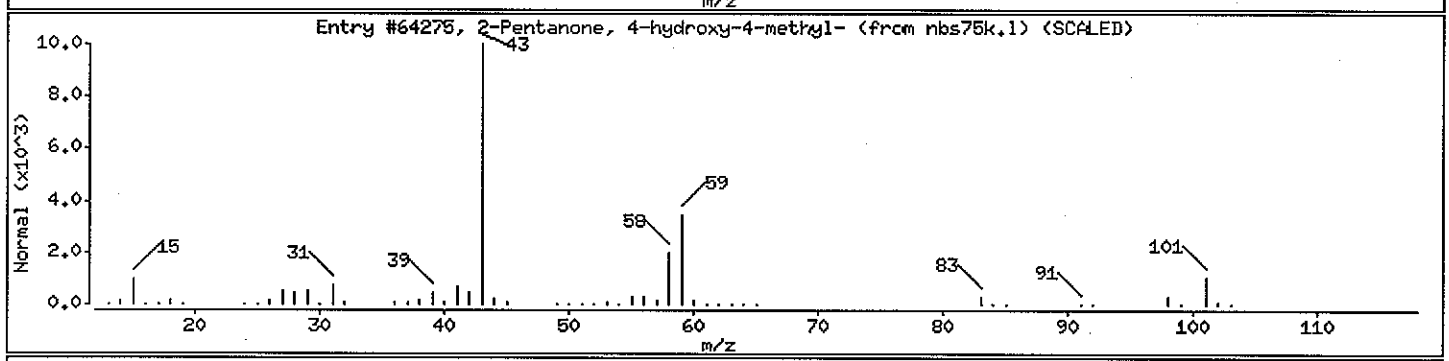
Operator: BVD

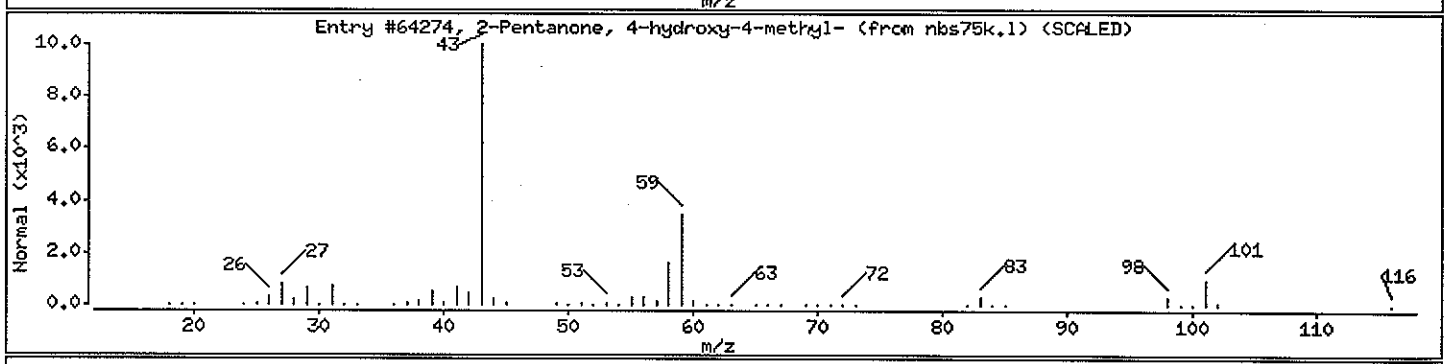
Column phase: Xti 5 x .5 u

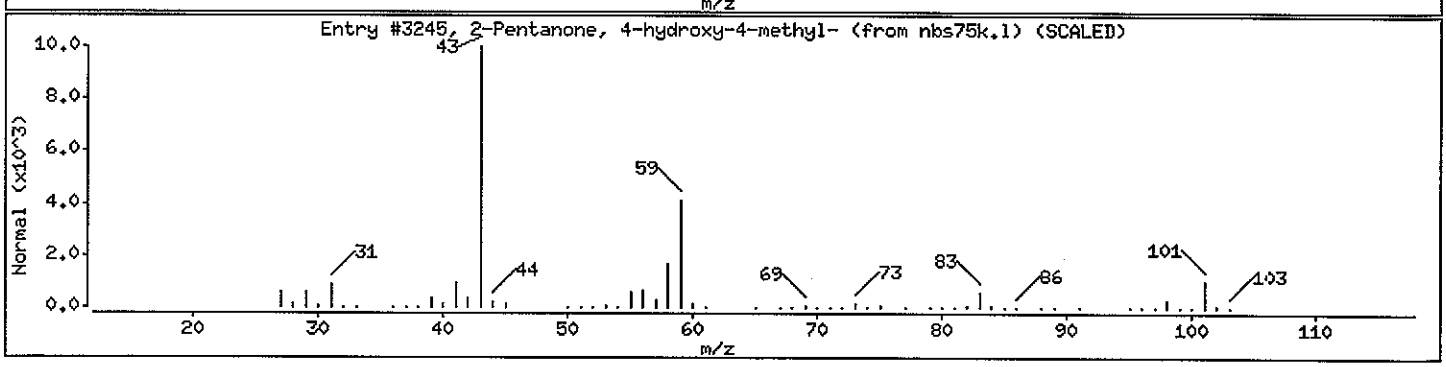
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	50	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	40	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	3245	25	C6H12O2	116









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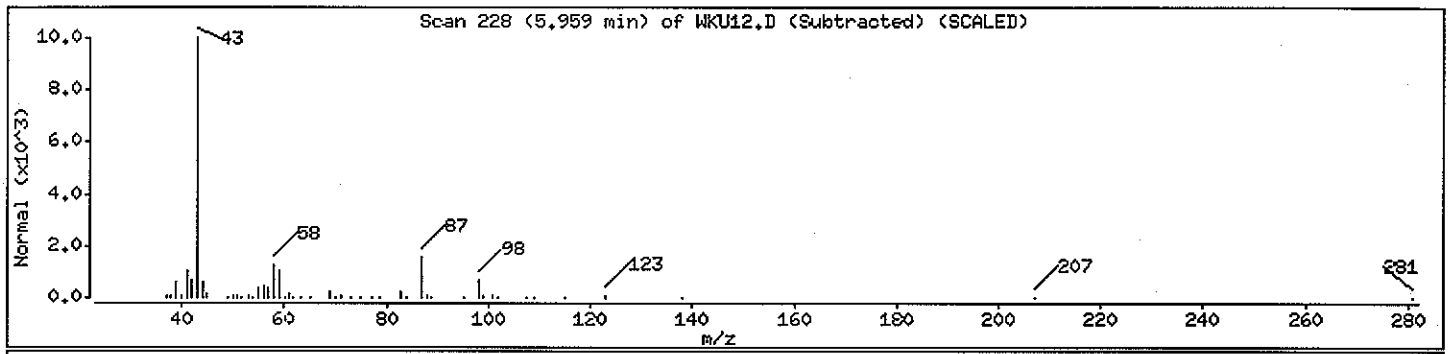
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

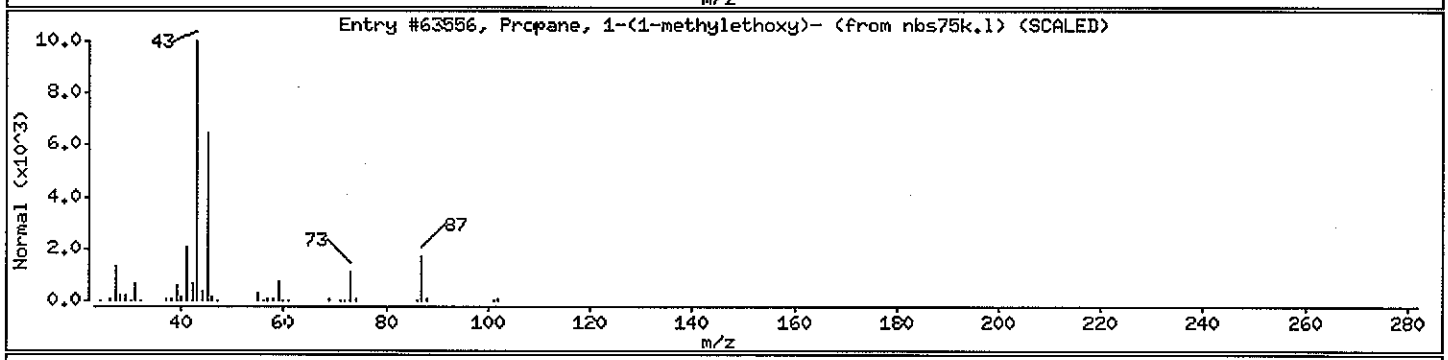
Sample Info: MSS,176248-003

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1-(1-methylethoxy)-	627-08-7	nbs75k.l	63556	33	C6H14O	102





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Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MSS,176248-003

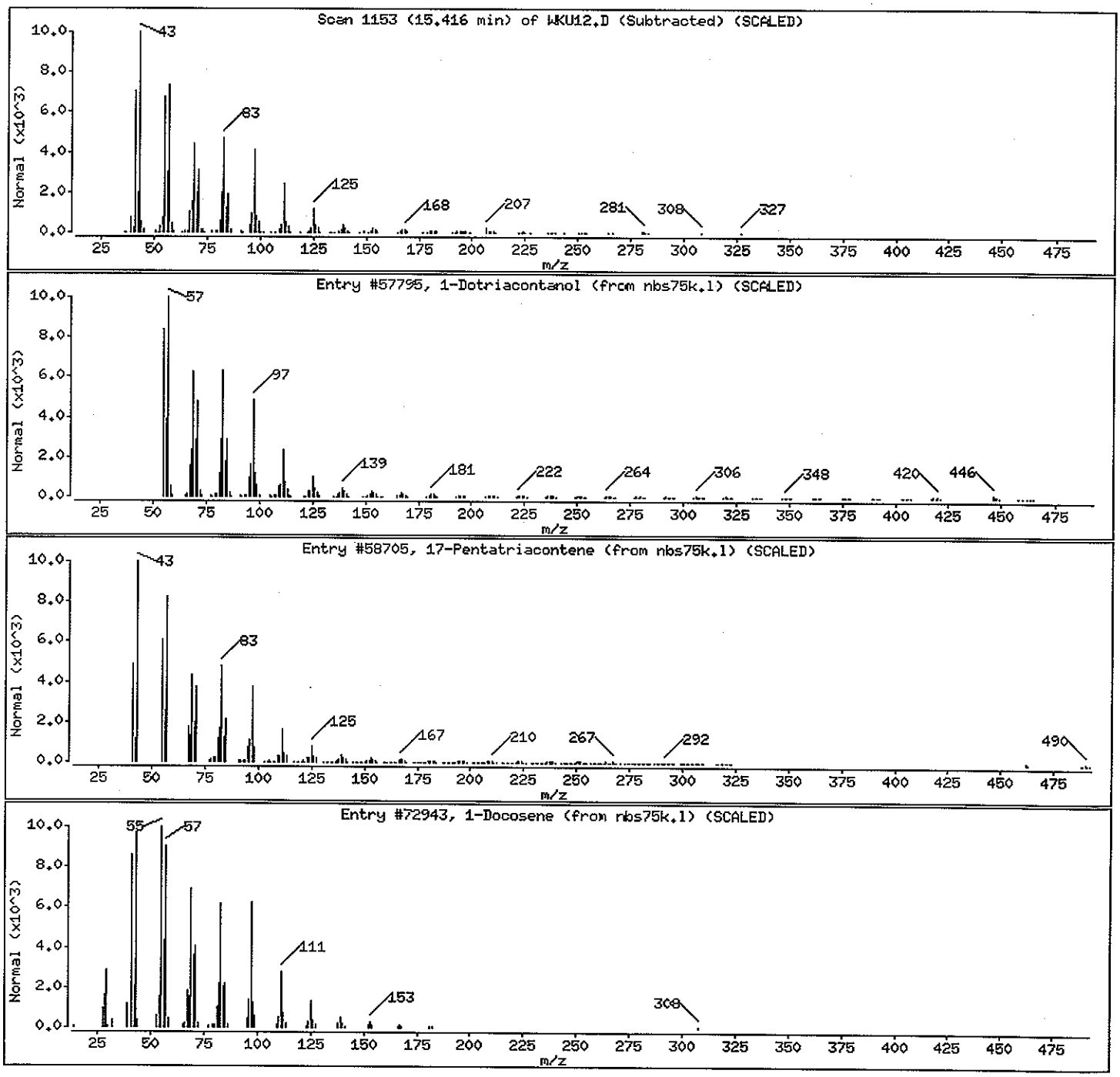
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5 x .5 u

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Dotriacontanol	6624-79-9	nbs75k.l	57795	94	C32H66O	467
17-Pentatriacontene	6971-40-0	nbs75k.l	58705	91	C35H70	491
1-Docosene	1599-67-3	nbs75k.l	72943	87	C22H44	308



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Date : 30-NOV-2004 17:51

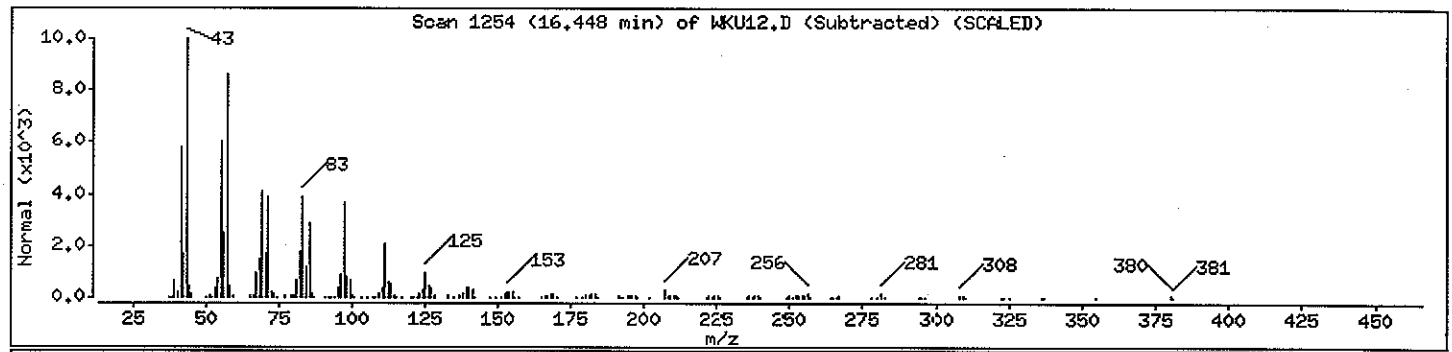
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

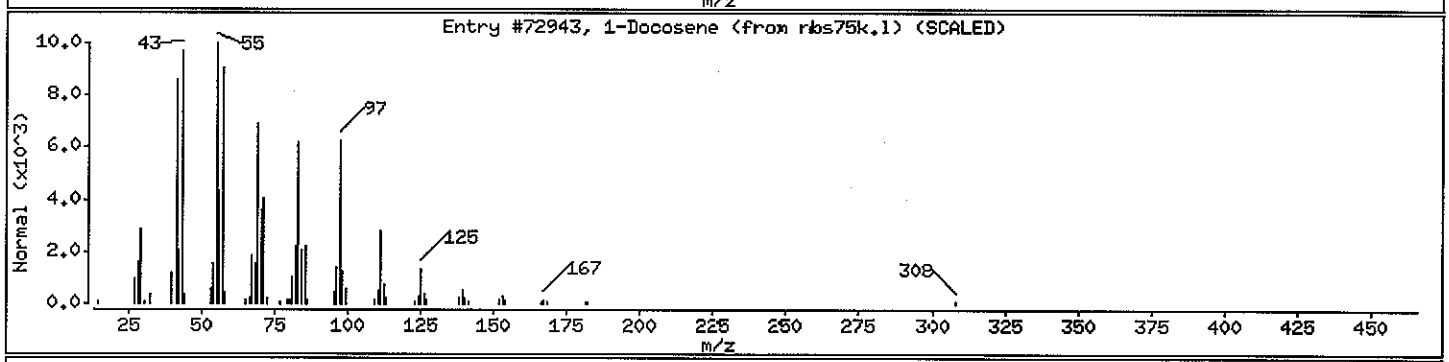
Sample Info: MSS,176248-003

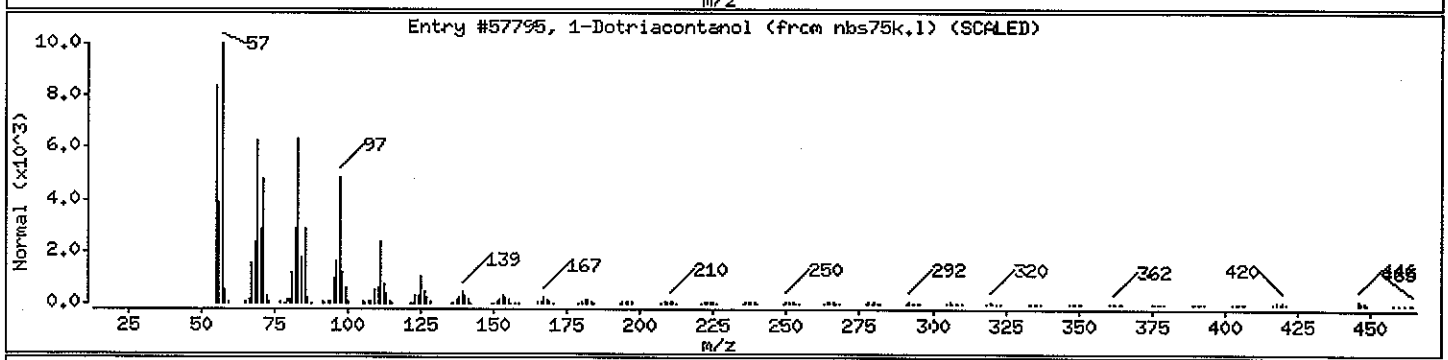
Volume Injected (uL): 1.0 | Operator: BVD

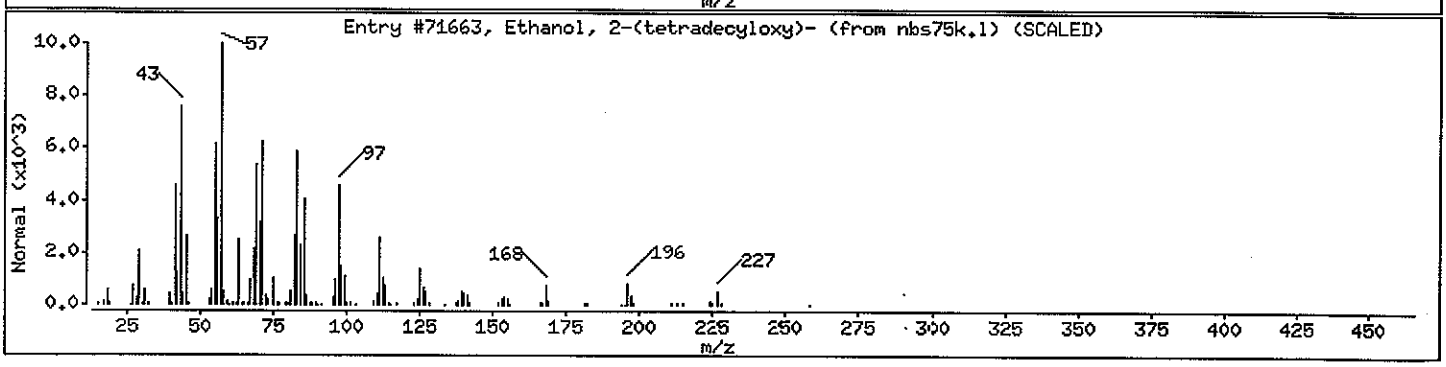
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Docosene	1599-67-3	nbs75k.l	72943	95	C22H44	308
1-Dotriacontanol	6624-79-9	nbs75k.l	57795	90	C32H66O	467
Ethanol, 2-(tetradecyloxy)-	2136-70-1	nbs75k.l	71663	83	C16H34O2	258









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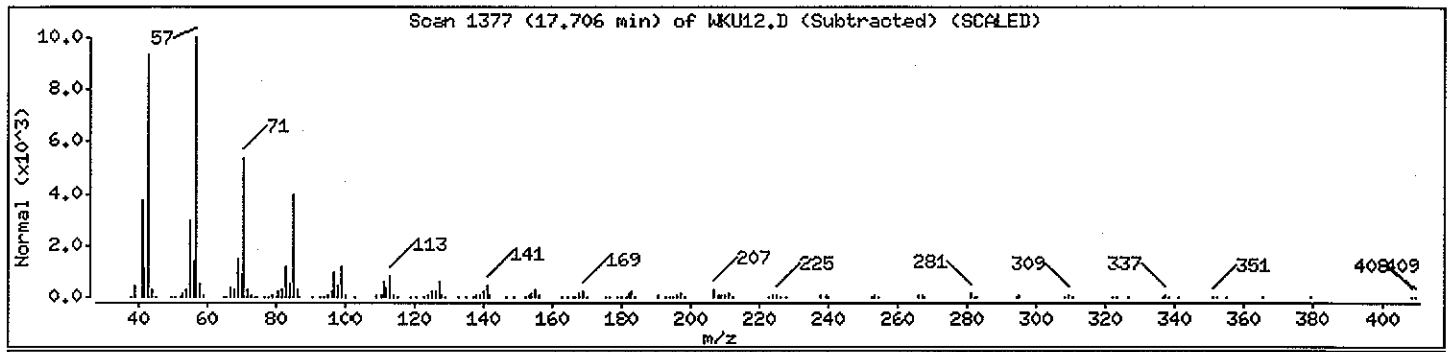
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

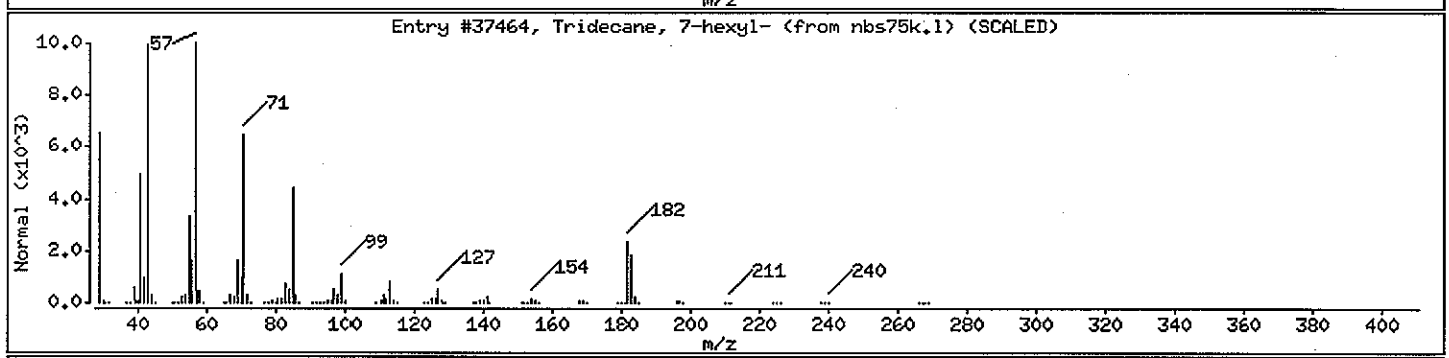
Sample Info: MSS,176248-003

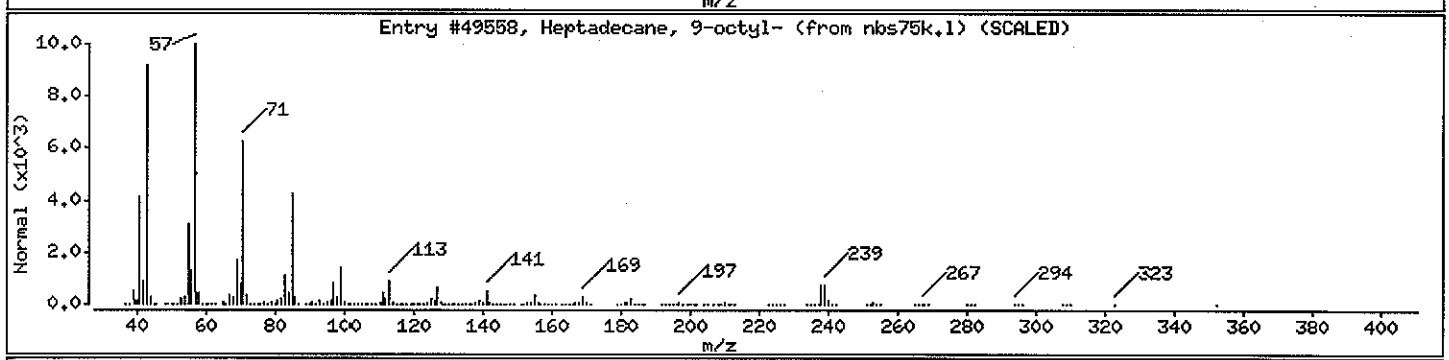
Volume Injected (uL): 1.0 | Operator: BVD

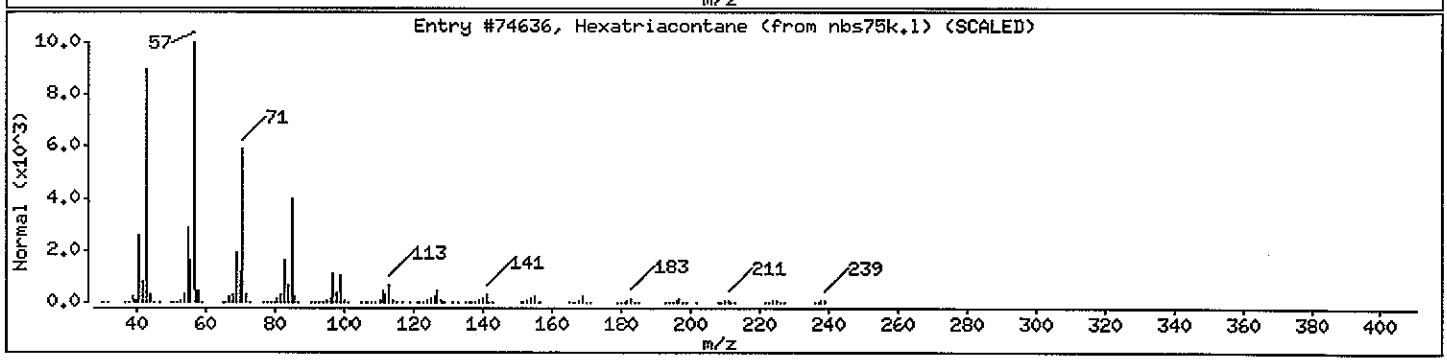
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tridecane, 7-hexyl-	7225-66-3	nbs75k.l	37464	96	C19H40	268
Heptadecane, 9-octyl-	7225-64-1	nbs75k.l	49558	96	C25H52	352
Hexatriacontane	630-06-8	nbs75k.l	74636	95	C36H74	507









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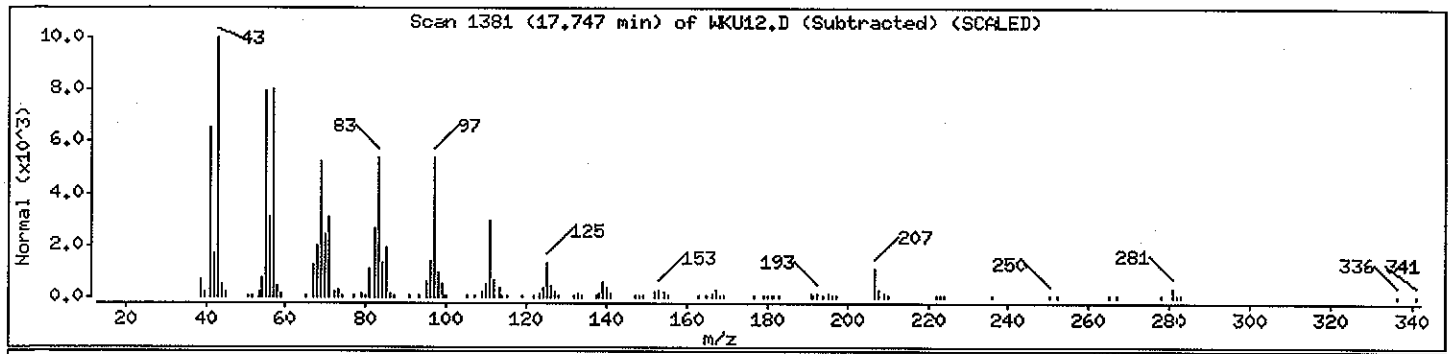
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

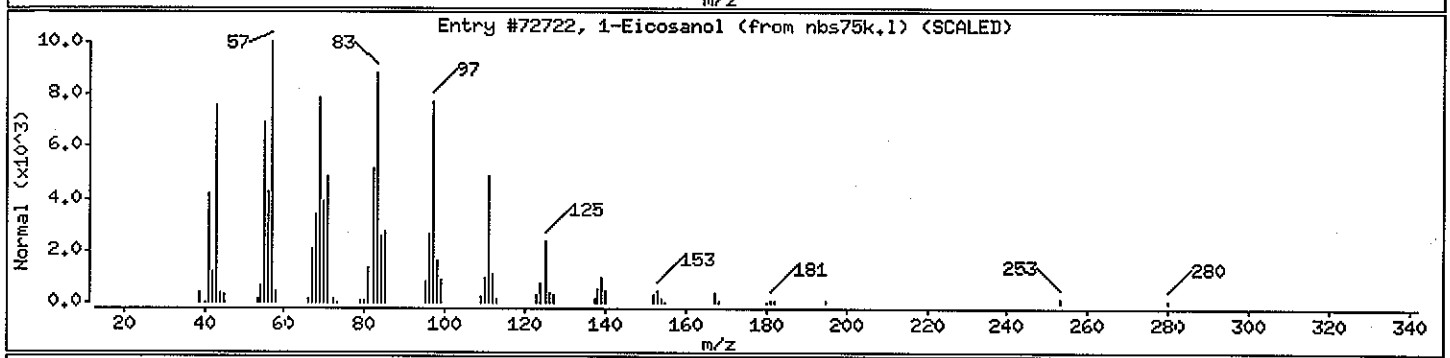
Sample Info: MSS,176248-003

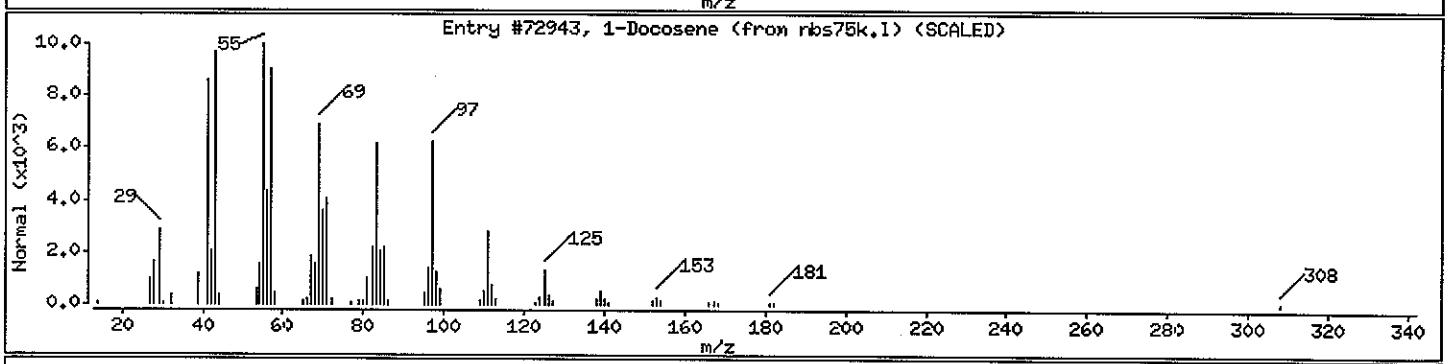
Volume Injected (uL): 1.0 | Operator: BVD

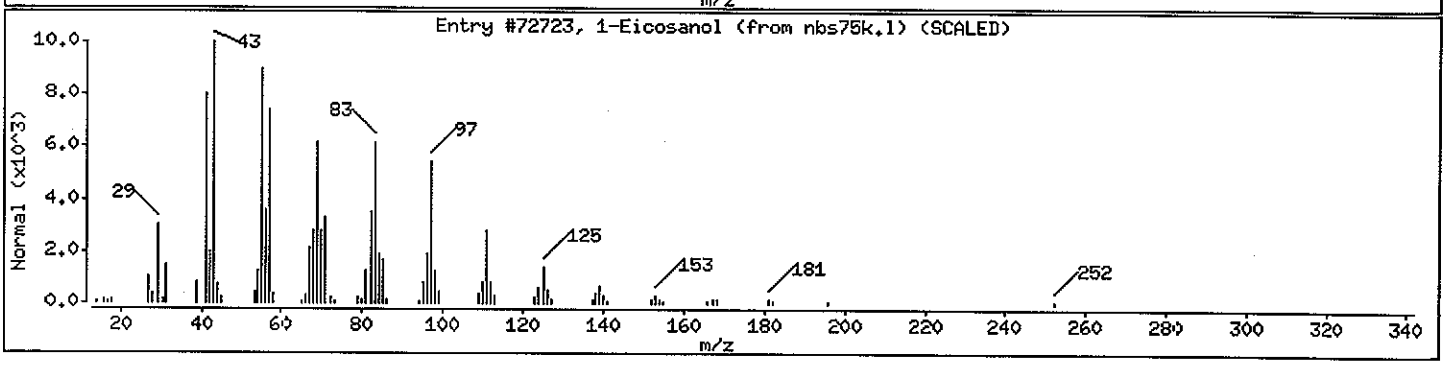
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Eicosanol	629-96-9	nbs75k.l	72722	93	C20H420	298
1-Docosene	1599-67-3	nbs75k.l	72943	93	C22H44	308
1-Eicosanol	629-96-9	nbs75k.l	72723	83	C20H420	298









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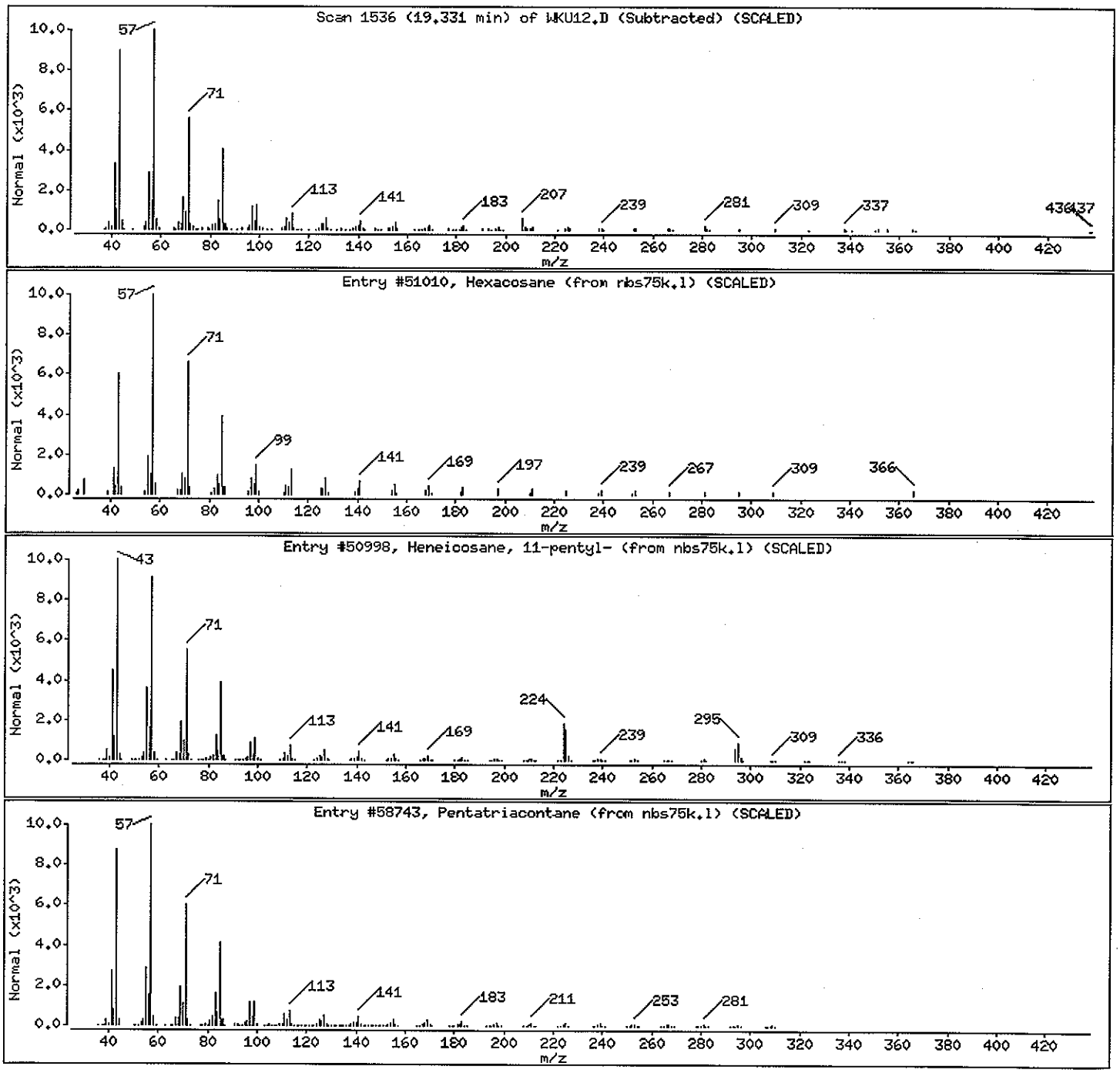
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexacosane	630-01-3	nbs75k.l	51010	98	C26H54	366
Heneicosane, 11-pentyl-	14739-72-1	nbs75k.l	50998	98	C26H54	366
Pentatriacontane	630-07-9	nbs75k.l	58743	93	C35H72	493



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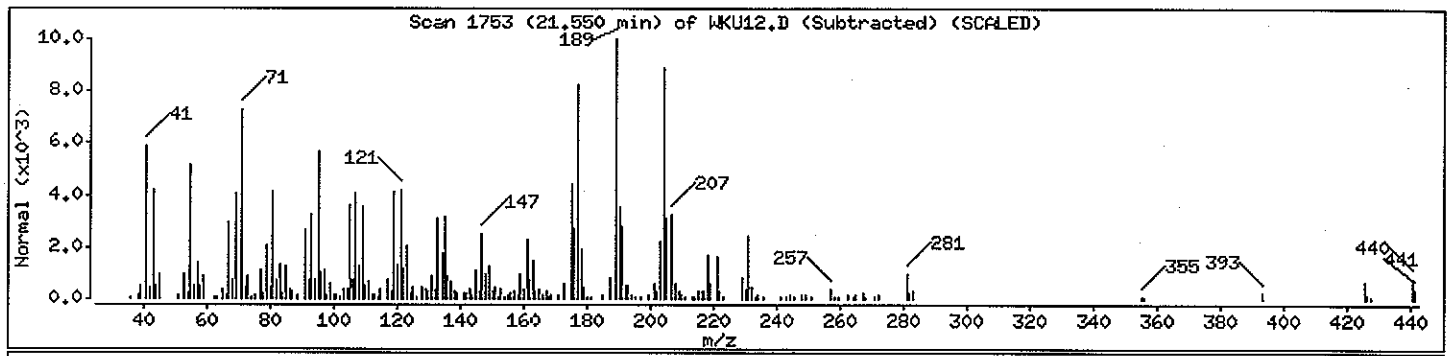
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

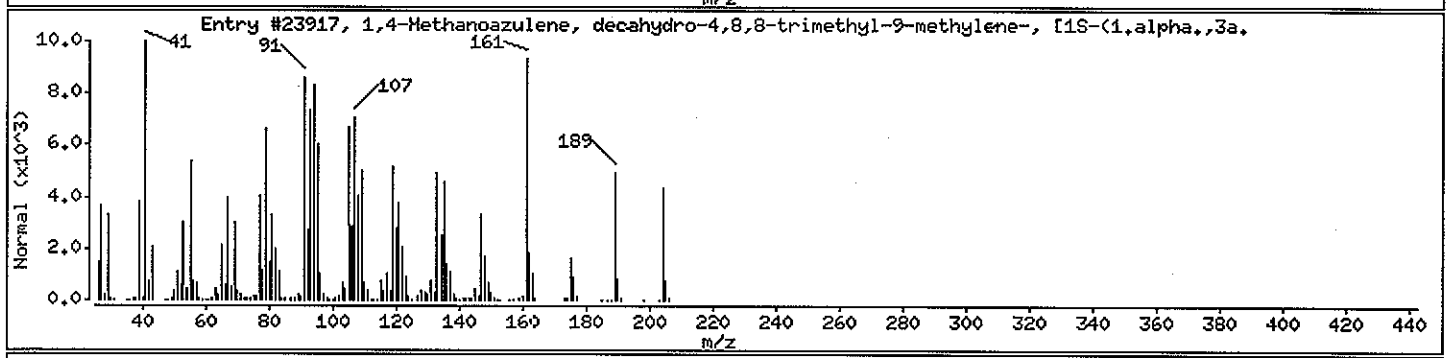
Sample Info: MSS,176248-003

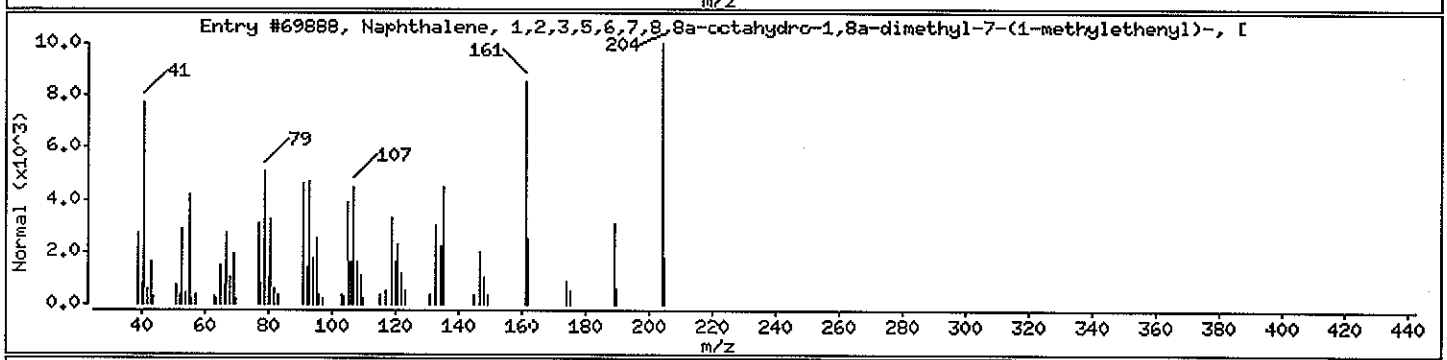
Volume Injected (uL): 1.0 | Operator: BVD

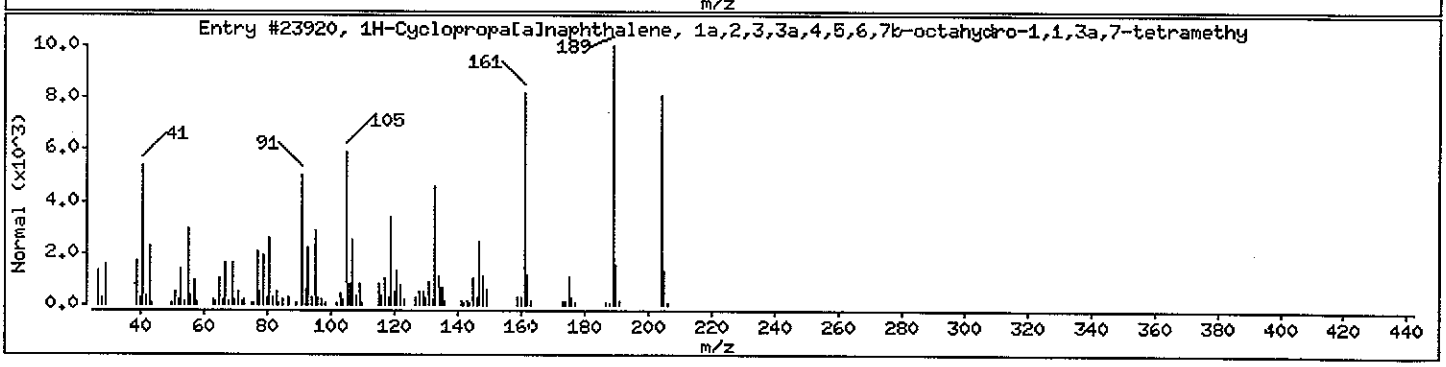
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,4-Methanoazulene, decahydro-4,8,8-trim	475-20-7	nbs75k.l	23917	70	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	nbs75k.l	69888	55	C15H24	204
1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4	489-29-2	nbs75k.l	23920	52	C15H24	204









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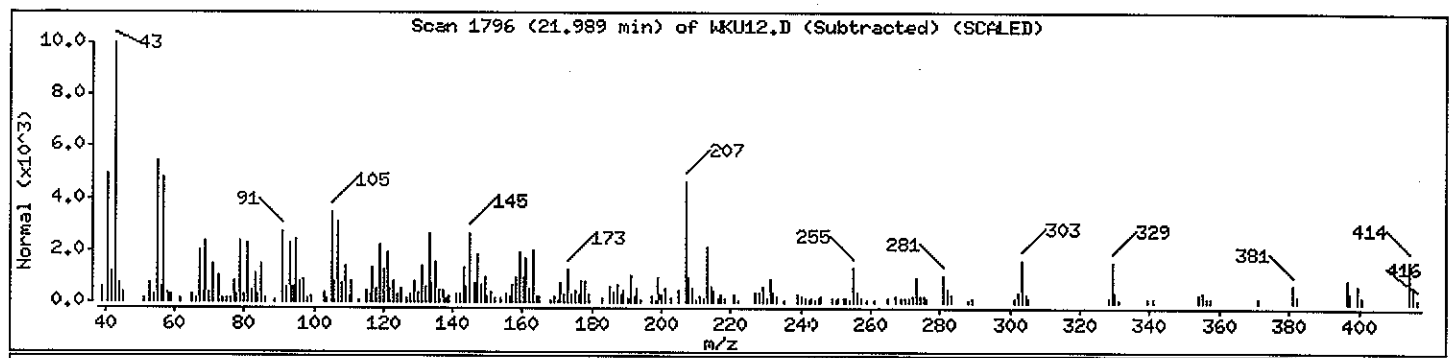
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

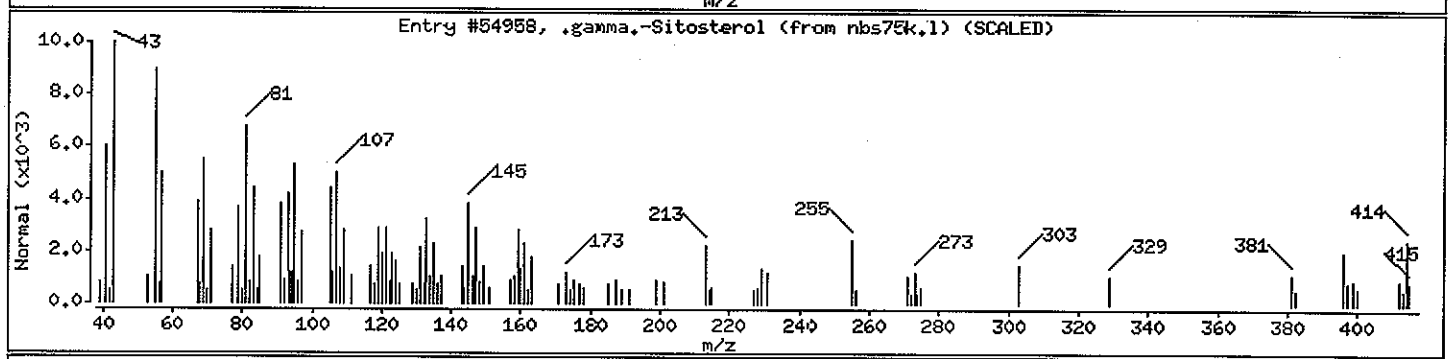
Sample Info: MSS,176248-003

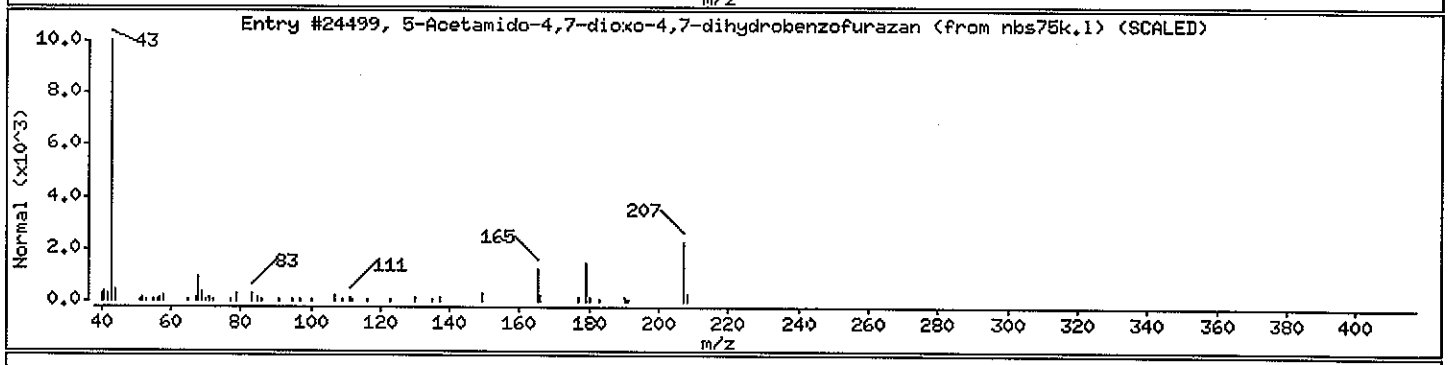
Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
.gamma.-Sitosterol	83-47-6	nbs75k.l	54958	35	C29H50O	414
5-Acetamido-4,7-dioxo-4,7-dihydrobenzofu	0-00-0	nbs75k.l	24499	22	C8H5N3O4	207







Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU12.D

Date : 30-NOV-2004 17:51

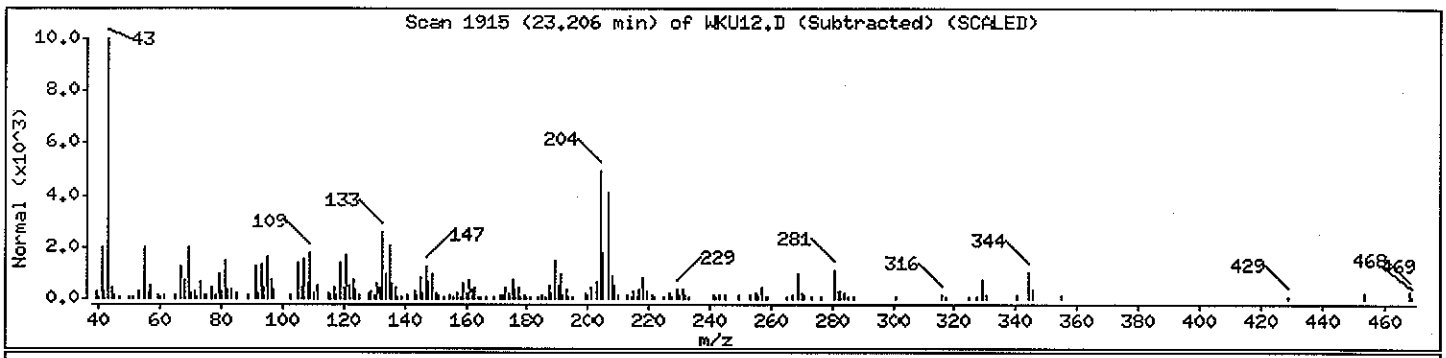
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

Sample Info: MSS,176248-003

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum:	QC274070	Cident	:
Seqnum	: 534483105005	Matrix	: Soil	Acctnum	: QC
Filename	: wku05	Batchnum	: 96932	Injected	: 30-NOV-2004 13:55
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534481550001	Caldate	: 29-NOV-2004	Caltype	:

Prep: 30.27 g --> 1.0 ml = 0.03304 ml/g PDF

Analyte	Result	RTS	RL	Flags
Phenol	ND		330	
2-Chlorophenol	ND		330	
1,4-Dichlorobenzene	ND		330	
N-Nitroso-di-n-propylamine.....	320 J	0.137	330	x
1,2,4-Trichlorobenzene	ND		330	
4-Chloro-3-methylphenol	ND		330	
Acenaphthene	ND		66	
4-Nitrophenol	ND		660	
2,4-Dinitrotoluene.....	380	-0.272	330	x
Pentachlorophenol	ND		660	
Pyrene	ND		66	
N-Nitrosodimethylamine	ND		330	
Pyridine	ND		330	
Aniline.....	320 J		330	B c+ rsd b*
bis(2-Chloroethyl)ether.....	50 J	0.290	330	x
1,3-Dichlorobenzene	ND		330	
Benzyl alcohol	ND		330	
1,2-Dichlorobenzene	ND		330	
2-Methylphenol	ND		330	
bis(2-Chloroisopropyl) ether	ND		330	
4-Methylphenol	ND		660	
Hexachloroethane	ND		330	
Nitrobenzene	ND		330	
Isophorone.....	660	-0.323	330	x
2-Nitrophenol	ND		660	
2,4-Dimethylphenol	ND		330	
Benzoic acid	ND		1700	!c+
bis(2-Chloroethoxy)methane	ND		330	
2,4-Dichlorophenol	ND		330	
Naphthalene	ND		66	
4-Chloroaniline	ND		330	
Hexachlorobutadiene	ND		330	
2-Methylnaphthalene	ND		66	
Hexachlorocyclopentadiene	ND		1700	
2,4,6-Trichlorophenol	ND		330	
2,4,5-Trichlorophenol	ND		330	
2-Chloronaphthalene	ND		330	
2-Nitroaniline	ND		660	
Dimethylphthalate.....	190 J	0.321	330	x
Acenaphthylene	ND		66	
2,6-Dinitrotoluene.....	500	0.219	330	x
3-Nitroaniline	ND		660	!v+

!=warning +=high bias -=low bias B=method blank contamination b=noncompliant c=CCV crf=CCV min RF failure rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

12/1/04 77

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum	: QC274070	Cident	:
Seqnum	: 534483105005	Matrix	: Soil	Acctnum	: QC
Filename	: wku05	Batchnum	: 96932	Injected	: 30-NOV-2004 13:55
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534481550001	Caldate	: 29-NOV-2004	Caltype	:

Analyte	Result	RTS	RL	Flags
2,4-Dinitrophenol	ND		1700	
Dibenzofuran	ND		**170**	y
Diethylphthalate	ND		330	
Fluorene.....	.25 J	0.290	66	x
4-Chlorophenyl-phenylether	ND		330	
4-Nitroaniline	ND		660	
4,6-Dinitro-2-methylphenol	ND		1700	
N-Nitrosodiphenylamine.....	.26 J	0.137	330	x
Azobenzene	ND		330	
4-Bromophenyl-phenylether...	.96 J	-0.293	330	x
Hexachlorobenzene	ND		330	
Phenanthrene	ND		66	
Anthracene	ND		66	
Carbazole	ND		1700	
Di-n-butylphthalate	ND		330	
Fluoranthene	ND		66	
Benzidine	ND		1700	c- crf rsd v+ b*
Butylbenzylphthalate	ND		330	
3,3'-Dichlorobenzidine	ND		660	
Benzo(a)anthracene	ND		66	
Chrysene	ND		66	
bis(2-Ethylhexyl)phthalate	ND		330	
Di-n-octylphthalate	ND		330	
Benzo(b)fluoranthene	ND		66	
Benzo(k)fluoranthene	ND		66	
Benzo(a)pyrene	ND		66	
Indeno(1,2,3-cd)pyrene	ND		66	
Dibenz(a,h)anthracene	ND		66	
Benzo(g,h,i)perylene	ND		66	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
2-Fluorophenol	3304	2753	83	33-120	
Phenol-d5	3304	2537	77	31-120	
2,4,6-Tribromophenol	3304	2462	75	32-120	
Nitrobenzene-d5	1652	1288	78	43-120	
2-Fluorobiphenyl	1652	1517	92	48-120	
Terphenyl-d14	1652	1265	77	37-120	

!=warning +=high bias -=low bias B=method blank contamination b=noncompliant c=CCV crf=CCV min RF failure rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid	: MSBNA04	Samplenum	: QC274070	Cident	:
Seqnum	: 534483105005	Matrix	: Soil	Acctnum	: QC
Filename	: wku05	Batchnum	: 96932	Injected	: 30-NOV-2004 13:55
IDF	: 1.0			Units	: ug/Kg
Calnum	: 534481550001	Caldate	: 29-NOV-2004	Caltype	:

ISTD (CCV=wku02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	307244	221146	-28.02	6.92	6.91	-0.01
Naphthalene-d8	1026952	752051	-26.77	8.41	8.40	-0.01
Acenaphthene-d10	676275	470360	-30.45	10.55	10.53	-0.02
Phenanthrene-d10	1238851	833424	-32.73	12.36	12.35	-0.01
Chrysene-d12	1090499	762469	-30.08	15.70	15.67	-0.03
Perylene-d12	970586	652096	-32.81	18.33	18.30	-0.03

!=warning +=high bias -=low bias B=method blank contamination b=noncompliant c=CCV crf=CCV min RF failure rsd=ICAL %RSD failure v=ICV x=false positive y=RL raised

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D
Report Date: 30-Nov-2004 14:57

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D
Lab Smp Id:
Inj Date : 30-NOV-2004 13:55
Operator : BVD
Smp Info : MB,QC274070
Misc Info : 96932,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 13:04 tapsvc
Cal Date : 29-NOV-2004 16:37
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.03
Processing Host: GCMSSERVER

Client Smp ID: CURTIS&TOMPKINS
MS Autotune Date: 15-AUG-2002 14:17
Inst ID: MSBNA04.i

Quant Type: ISTD
Cal File: WKT13.D

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.552	5.497	(0.803)	473350	83.3333	83.3332
$ 4 Phenol-d5	99	6.533	6.519	(0.945)	515742	76.7941	76.7941
6 Aniline	66	6.533	6.540	(0.945)	30048	9.71583	~~9.7158~~(Q)
7 bis(2-Chloroethyl)ether	63	6.912	6.621	(1.000)	7043	1.51093	~~1.5109~~(a)
* 10 1,4-Dichlorobenzene-d4	152	6.912	6.918	(1.000)	221146	40.0000	
17 N-Nitroso-di-n-propylamine	70	7.566	7.429	(1.095)	32499	9.56244	~~9.5624~~
$ 19 Nitrobenzene-d5	82	7.566	7.572	(0.900)	231783	38.9819	38.9818
21 Isophorone	82	7.566	7.889	(0.900)	231783	19.9610	~~19.9609~~
* 28 Naphthalene-d8	136	8.404	8.410	(1.000)	752051	40.0000	
$ 37 2-Fluorobiphenyl	172	9.703	9.719	(0.921)	631260	45.9053	45.9052
40 Dimethylphthalate	163	10.541	10.220	(1.001)	100234	5.89728	~~5.0972~~(Q)
41 2,6-Dinitrotoluene	165	10.531	10.312	(1.000)	59072	15.1088	~~15.1088~~
* 44 Acenaphthene-d10	164	10.531	10.547	(1.000)	470360	40.0000	
49 2,4-Dinitrotoluene	165	10.531	10.803	(1.000)	59072	11.4896	~~11.4896~~

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D
Report Date: 30-Nov-2004 14:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
52 Fluorene	166	11.502	11.212	(1.092)	10246	0.74548	0.7454(a)
55 N-Nitrosodiphenylamine	169	11.502	11.365	(0.931)	7181	0.78599	0.7859(a)
$ 57 2,4,6-Tribromophenol	330	11.502	11.518	(1.092)	242187	74.5179	74.5178
58 4-Bromophenyl-phenylether	248	11.502	11.794	(0.931)	14282	2.91683	2.9168(aQ)
* 61 Phenanthrene-d10	188	12.350	12.357	(1.000)	833424	40.0000	
65 Di-n-butylphthalate	149	13.025	13.042	(1.055)	6618	0.22317	0.2231(a)
66 Fluoranthene	202	14.272	13.839	(1.156)	2729	0.11789	0.1178(a)
67 Benzidine	184	14.283	13.992	(0.911)	12699	10.0478	10.0478(Q)
68 Pyrene	202	14.272	14.115	(0.911)	2729	0.11069	0.1106(a)
$ 69 Terphenyl-d14	244	14.283	14.289	(0.911)	735344	38.2899	38.2899
72 bis(2-Ethylhexyl)phthalate	149	15.632	15.649	(0.997)	6678	0.33499	0.3349(aQ)
73 Benzo(a)anthracene	228	15.673	15.669	(1.000)	4810	0.20028	0.2002(a)
* 74 Chrysene-d12	240	15.673	15.700	(1.000)	762469	40.0000	
75 Chrysene	228	15.673	15.741	(1.000)	4810	0.22775	0.2277(a)
79 Benzo(a)pyrene	252	18.290	18.204	(0.999)	2382	0.12262	0.1226(a)
* 80 Perylene-d12	264	18.300	18.327	(1.000)	652096	40.0000	
82 Dibenz(a,h)anthracene	278	20.979	21.067	(1.146)	1277	0.08055	0.0805(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D
Report Date: 30-Nov-2004 14:57

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 13:55 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : MB,QC274070
Misc Info : 96932,1,
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 13:04 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

ISTD	RT	AREA	AMOUNT
* 10 1,4-Dichlorobenzene-d4	6.912	1296830	40.000
* 74 Chrysene-d12	15.673	2214255	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(NG)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Toluene				CAS #: 108-88-3			
4.345	697222	21.5054248	21.5054	87	nbs75k.l	965	10
Unknown				CAS #:			
4.949	161080	4.96842300	4.9684	0		0	10

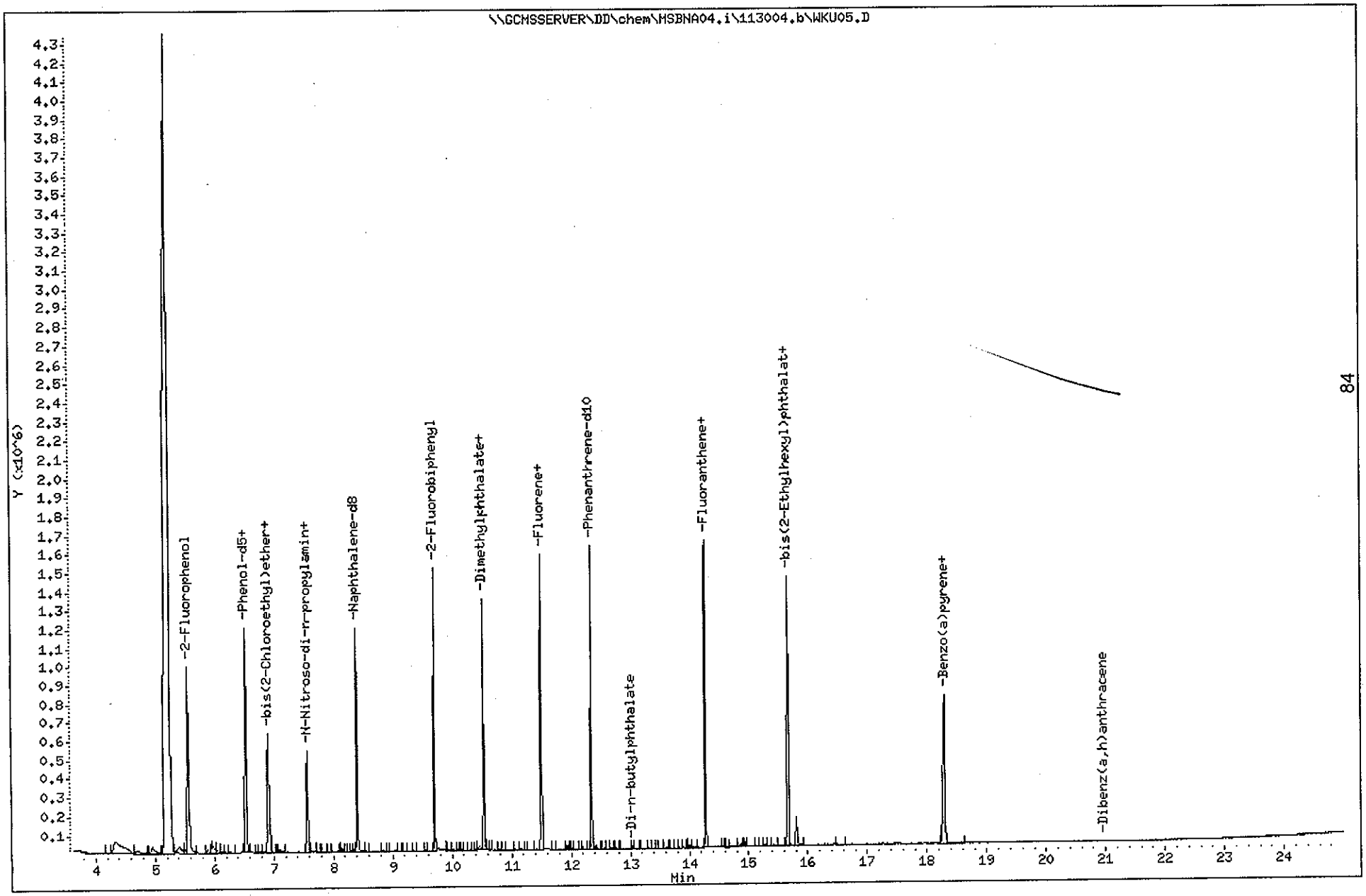
Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D
Report Date: 30-Nov-2004 14:57

RT	AREA	CONCENTRATIONS ON-COL(NG)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
2-Pentanone, 4-hydroxy-4-methyl-					CAS #: 123-42-2		
5.235	18880420	582.356053	582.3560	45	nbs75k.l	64275	10
2-Butyn-1-ol					CAS #: 764-01-2		
5.419	170990	5.27409144	5.2740	46	nbs75k.l	62449	10
Propane, 1-(1-methylethoxy)-					CAS #: 627-08-7		
5.950	181766	5.60647116	5.6064	25	nbs75k.l	63556	10
(Carbethoxyethylidine)triphenylphosphora					CAS #: 5717-37-3		
15.816	240321	4.34134280	4.3413	90	nbs75k.l	50583	74

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D
Date : 30-NOV-2004 13:55
Client ID: CURTIS&TOMPKINS
Sample Info: MB,QC274070
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i

Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D

Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

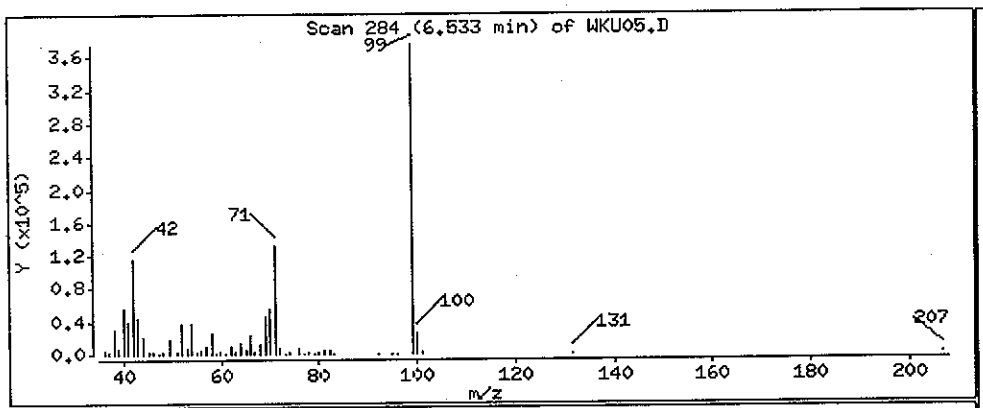
Operator: BVD

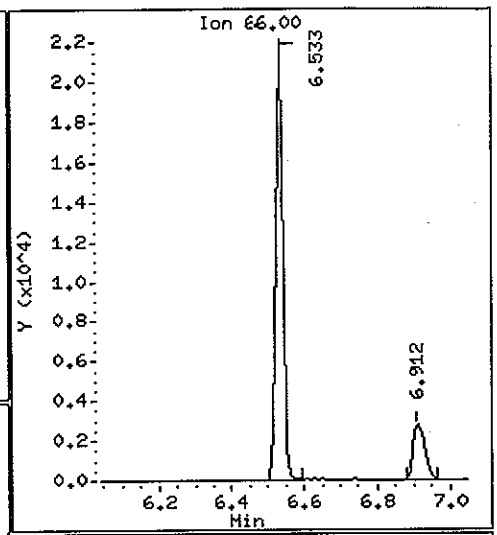
Column phase: Xti 5 x .5 u

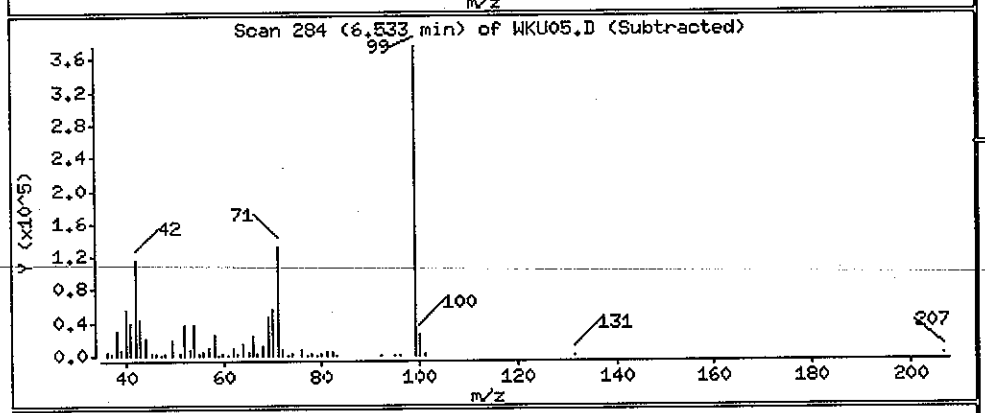
Column diameter: 0.25

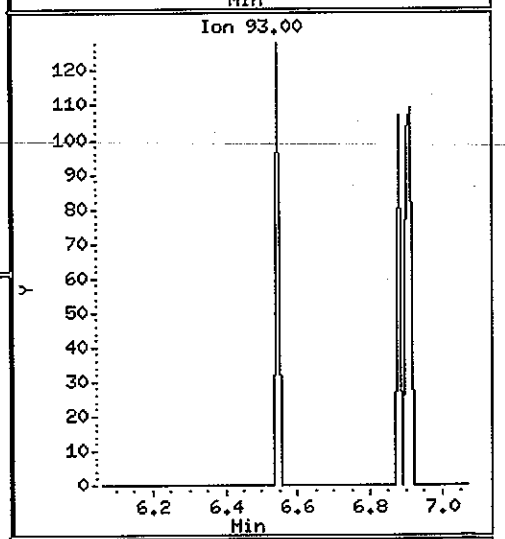
6 Aniline

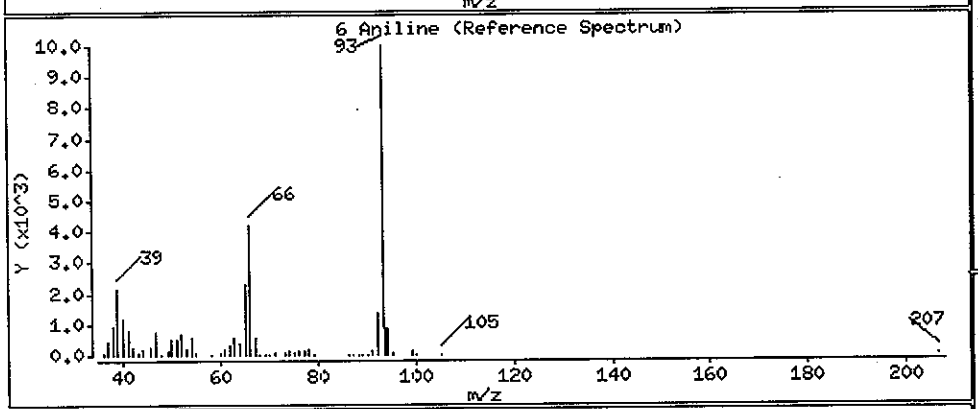
Concentration: 9.7158 ug/L

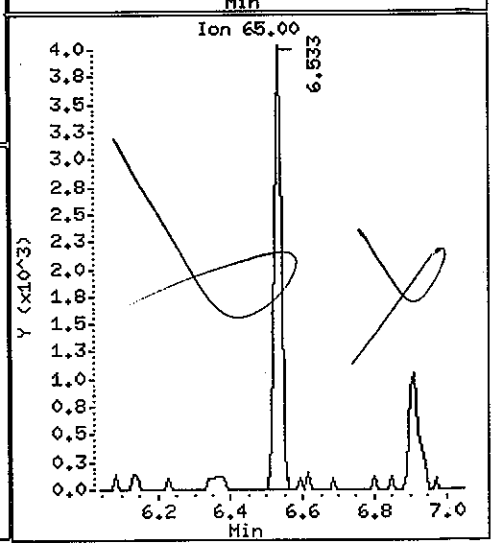


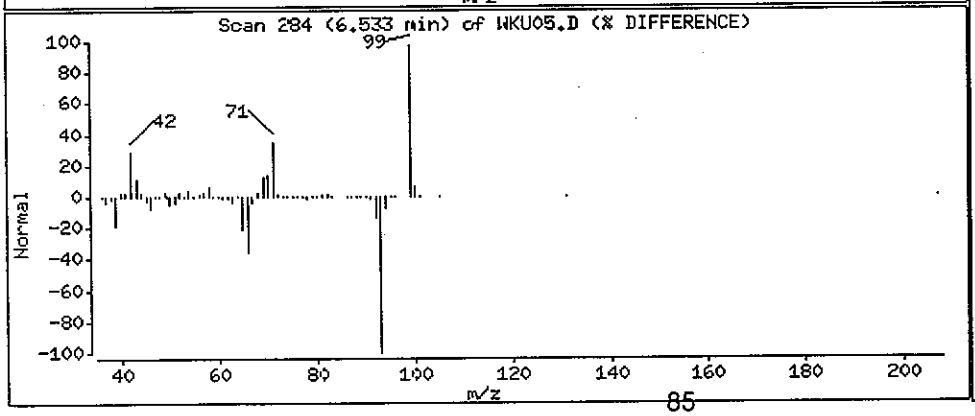












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D

Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

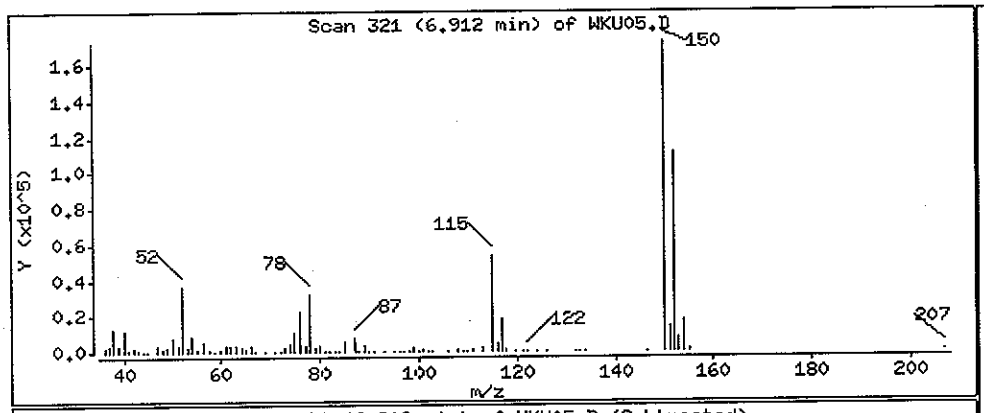
Operator: BVD

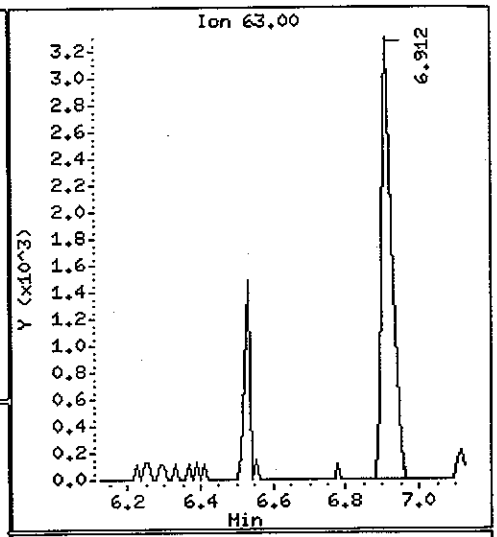
Column phase: Xti 5 x .5 u

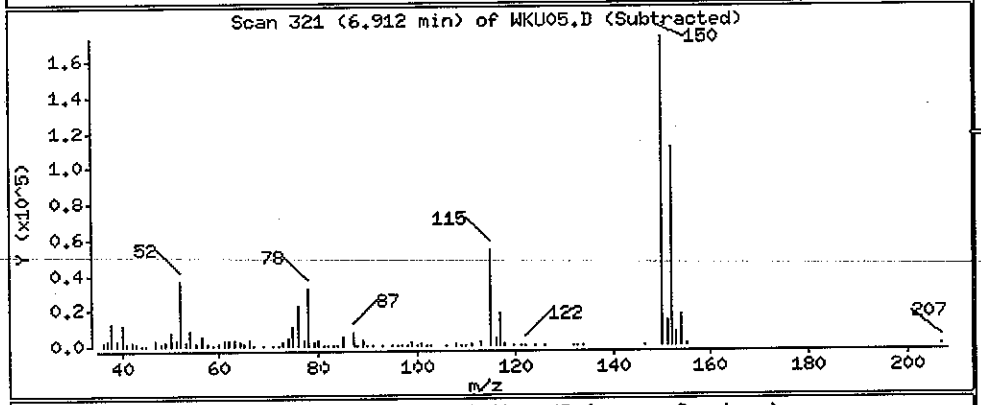
Column diameter: 0.25

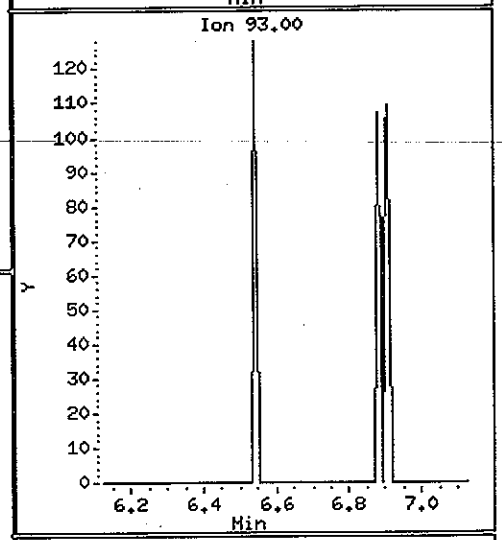
7 bis(2-Chloroethyl)ether

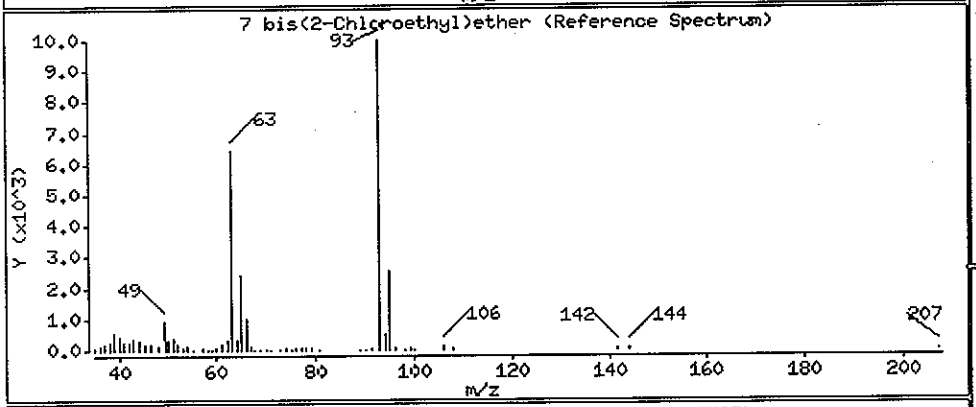
Concentration: 1.5109 ug/L

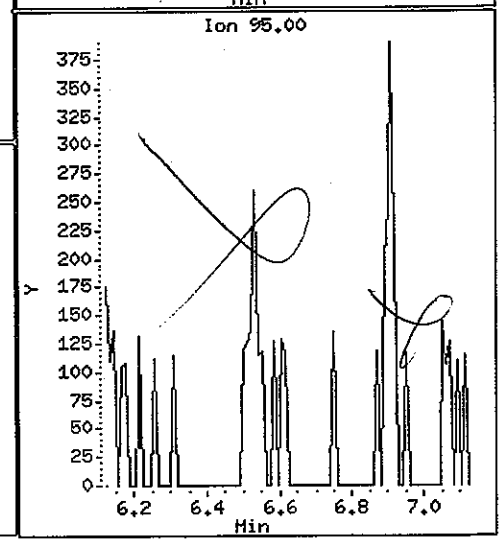


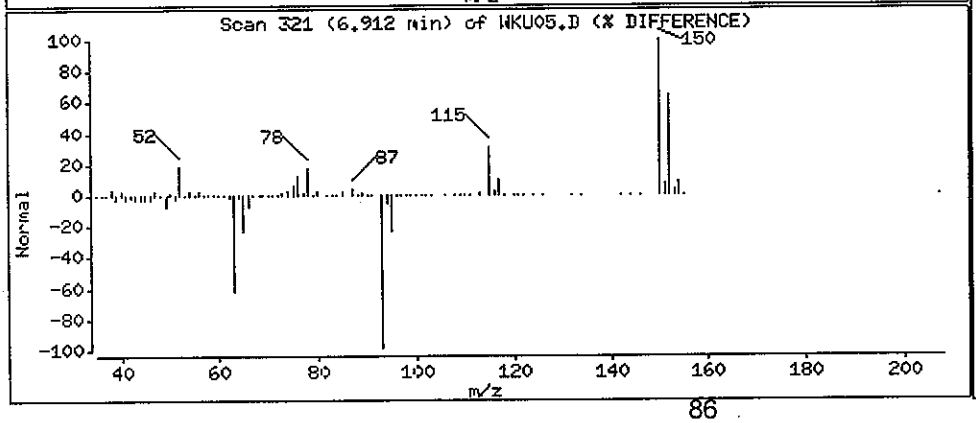












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D

Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

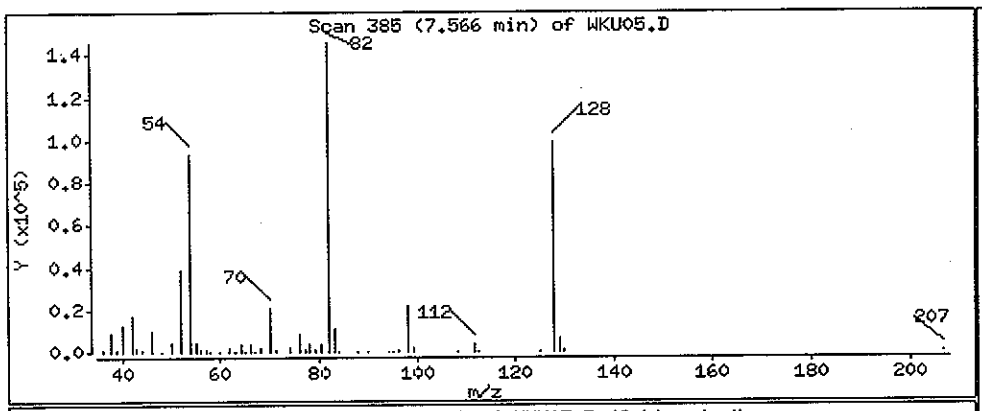
Operator: BVD

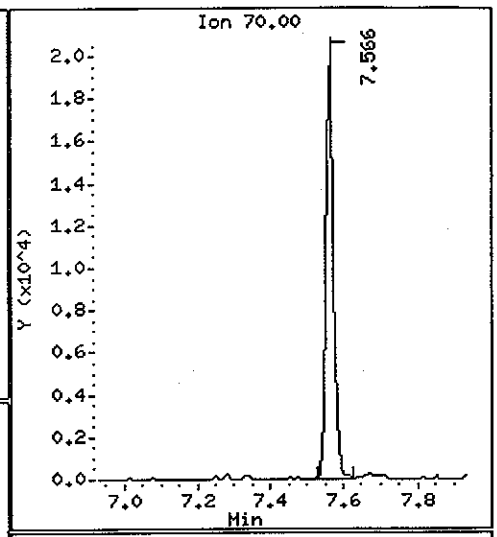
Column phase: Xti 5 x .5 u

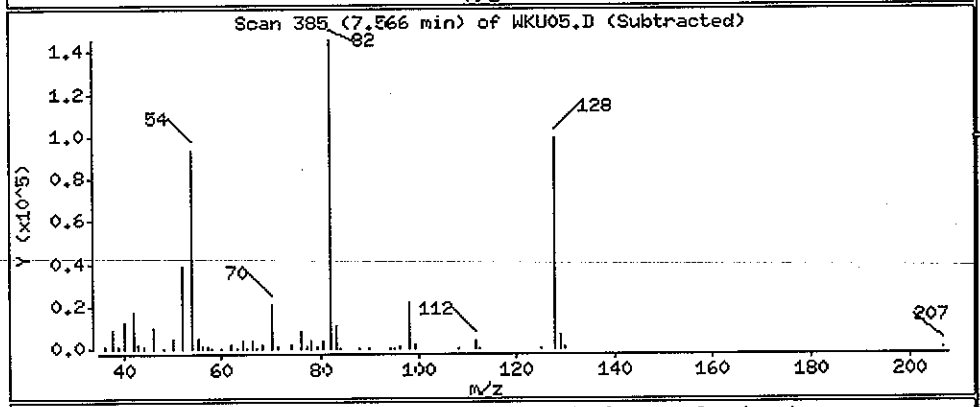
Column diameter: 0.25

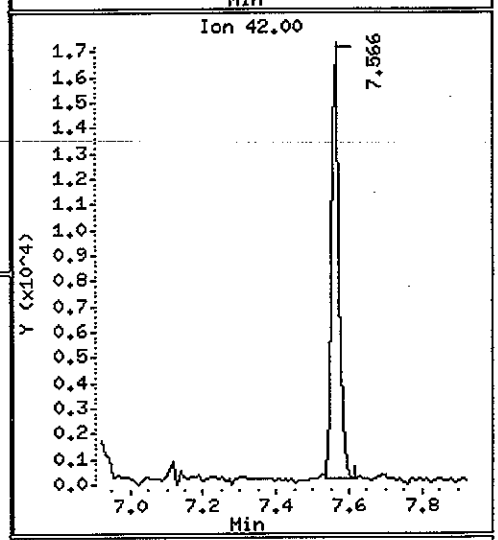
17 N-Nitroso-di-n-propylamine

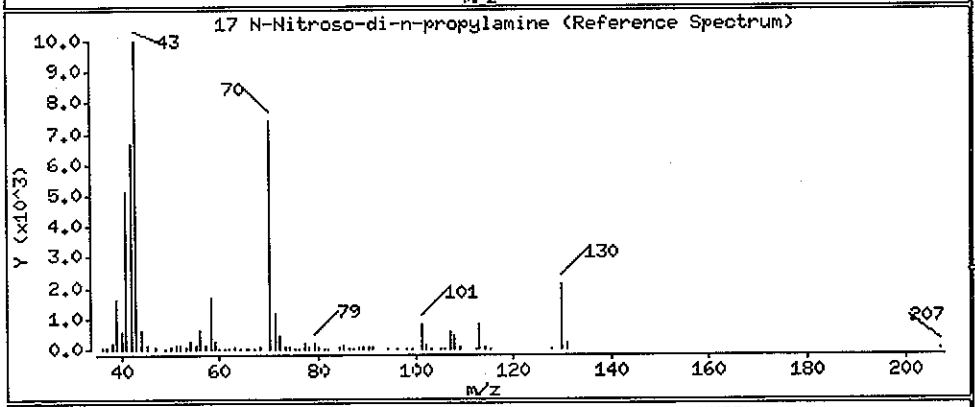
Concentration: 9.5624 ug/L

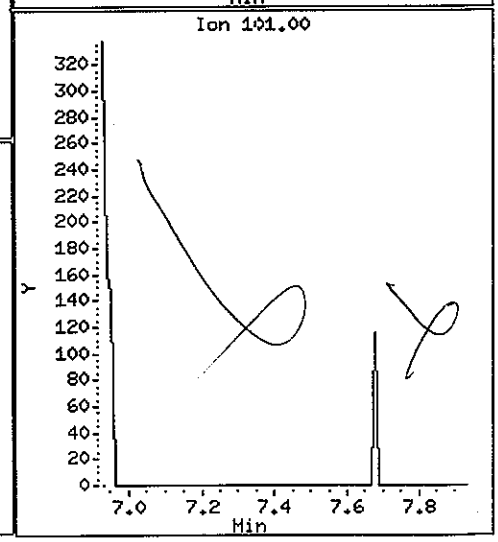


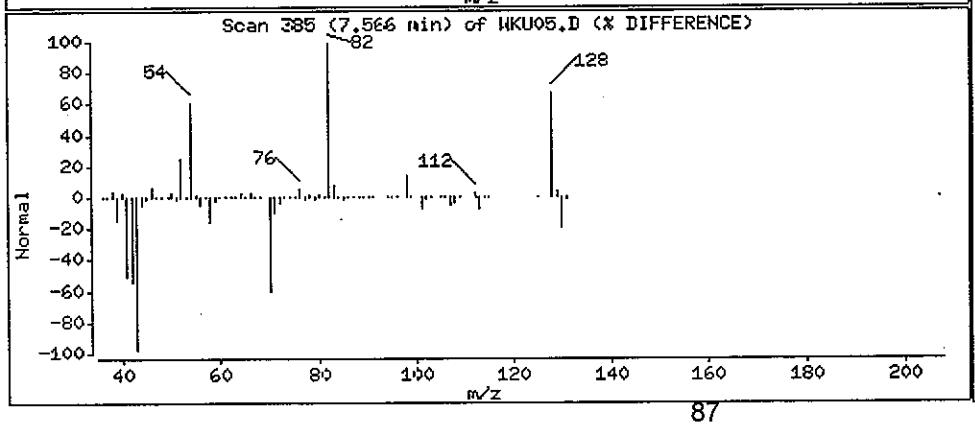












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

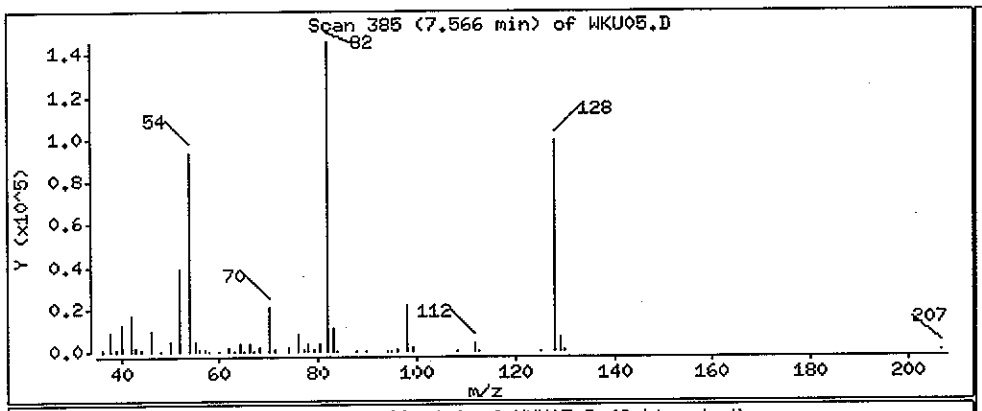
Operator: BVD

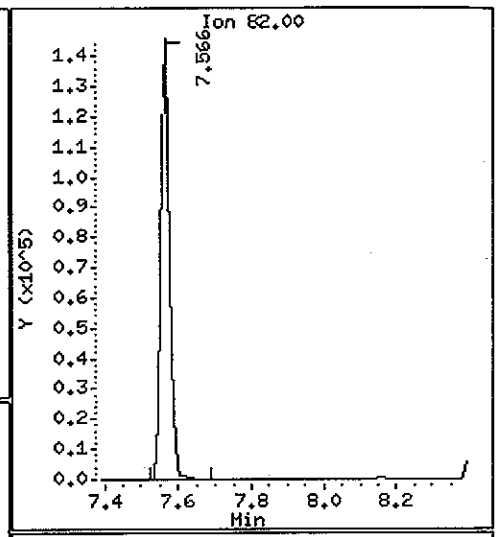
Column phase: Xti 5 x .5 u

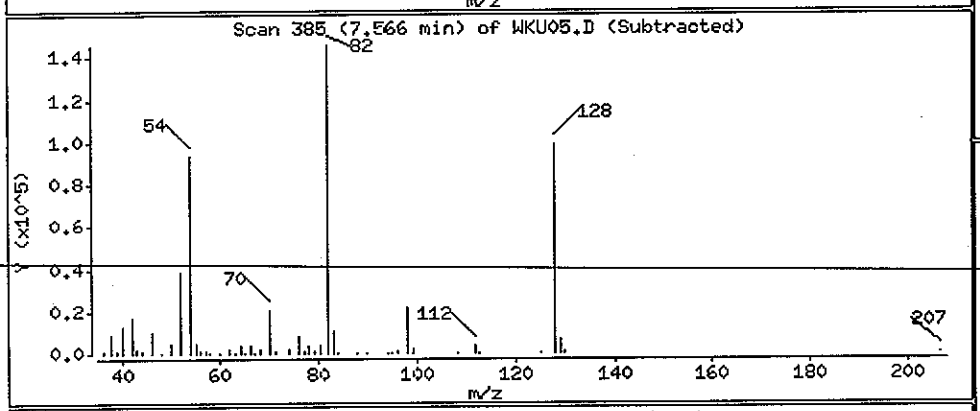
Column diameter: 0.25

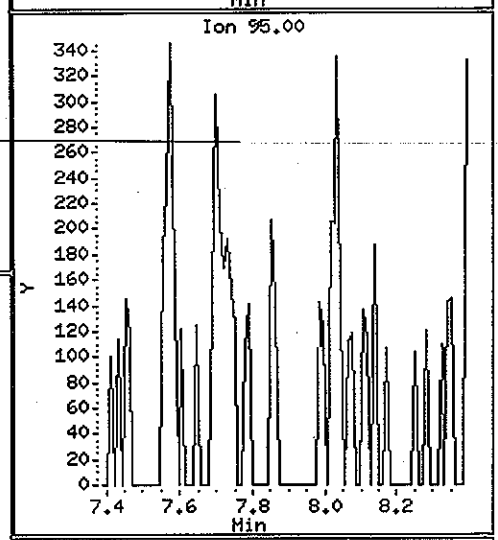
21 Isophorone

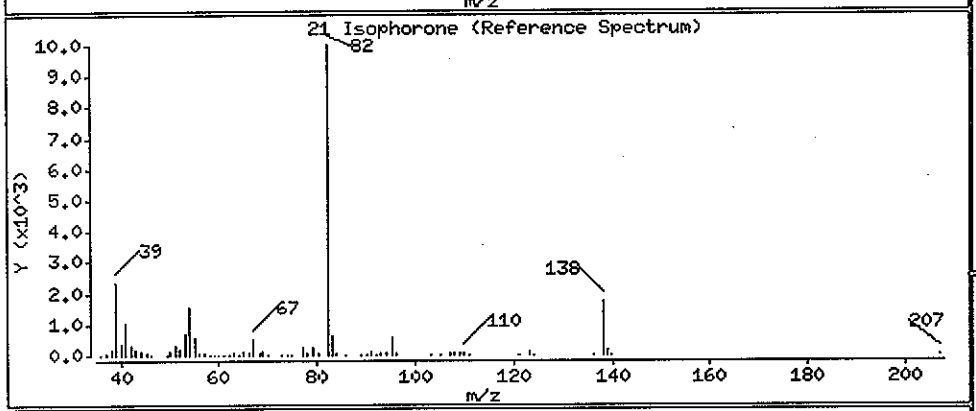
Concentration: 19.9609 ug/L

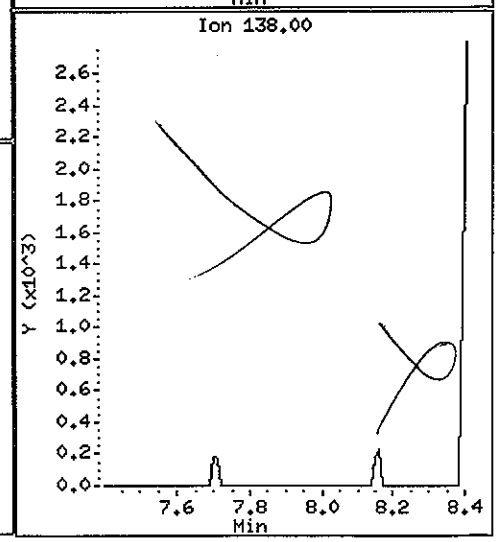


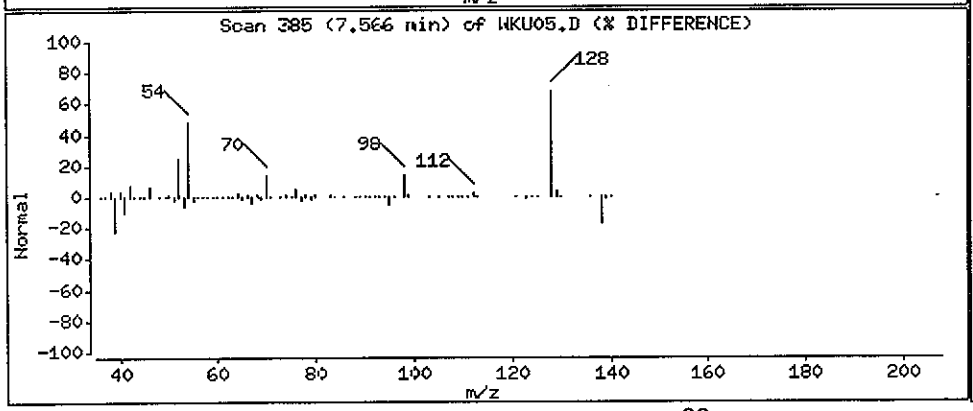












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

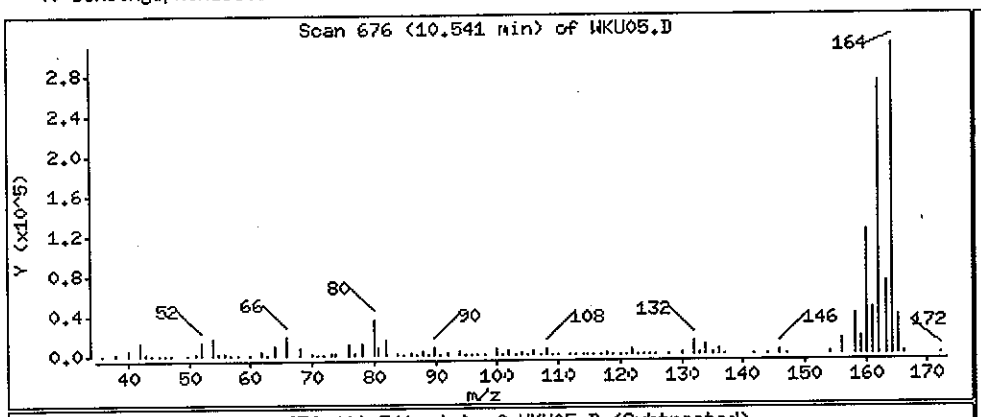
Operator: BVD

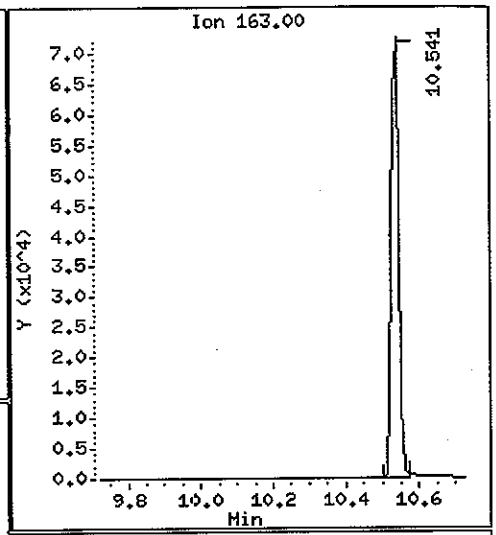
Column phase: Xti 5 x .5 u

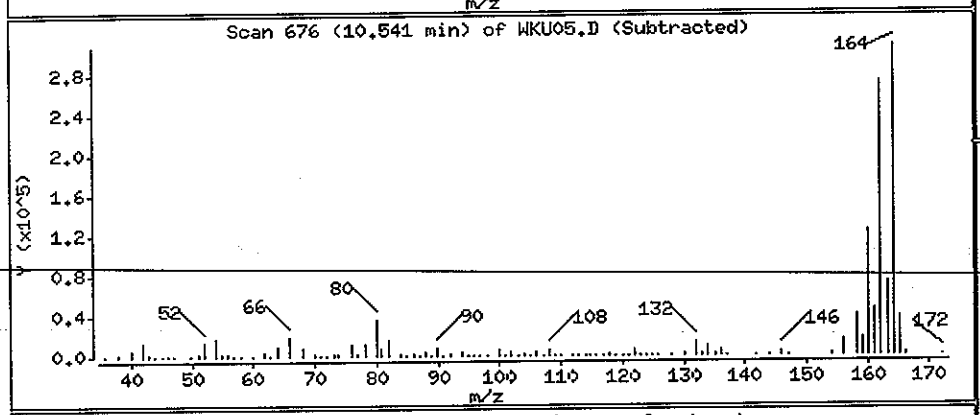
Column diameter: 0.25

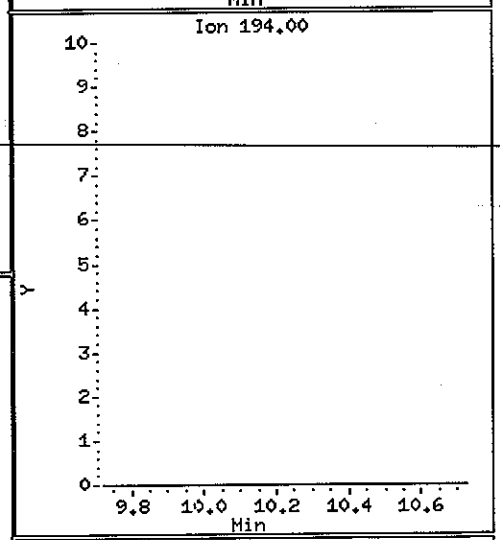
40 Dimethylphthalate

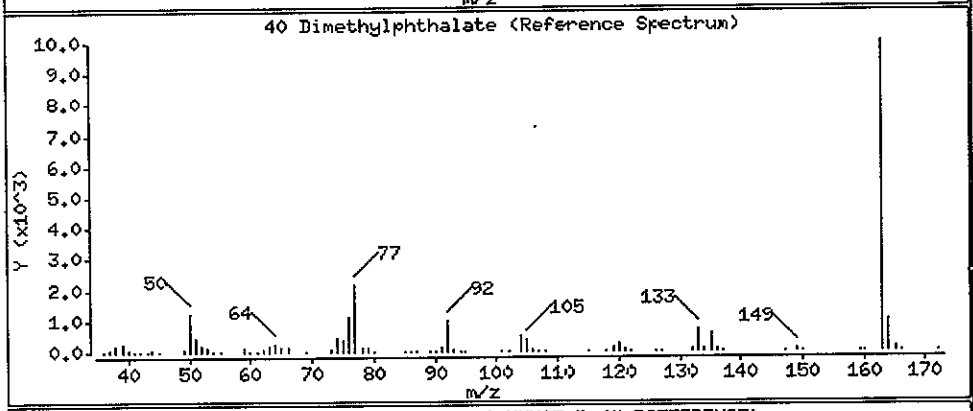
Concentration: 5.8972 ug/L

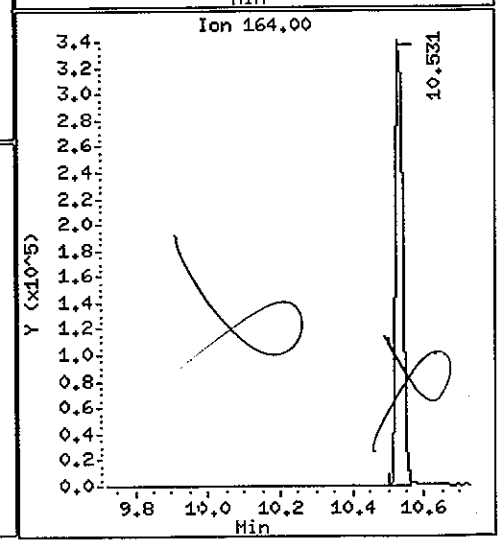


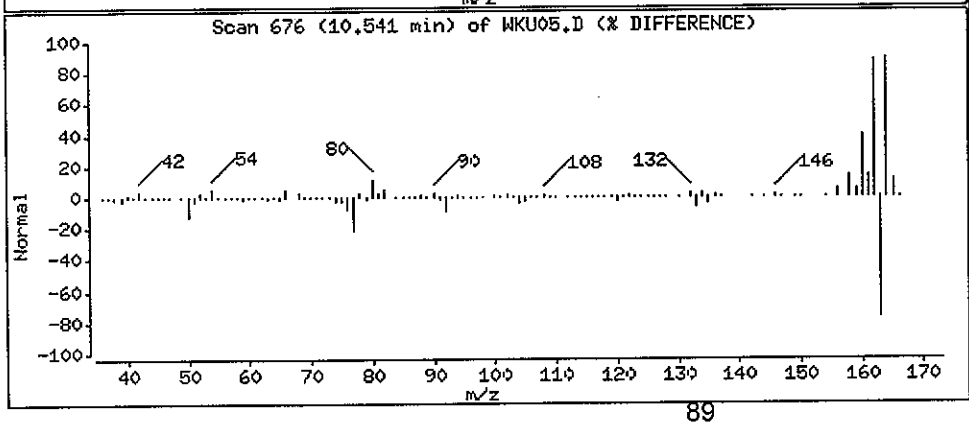












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D

Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

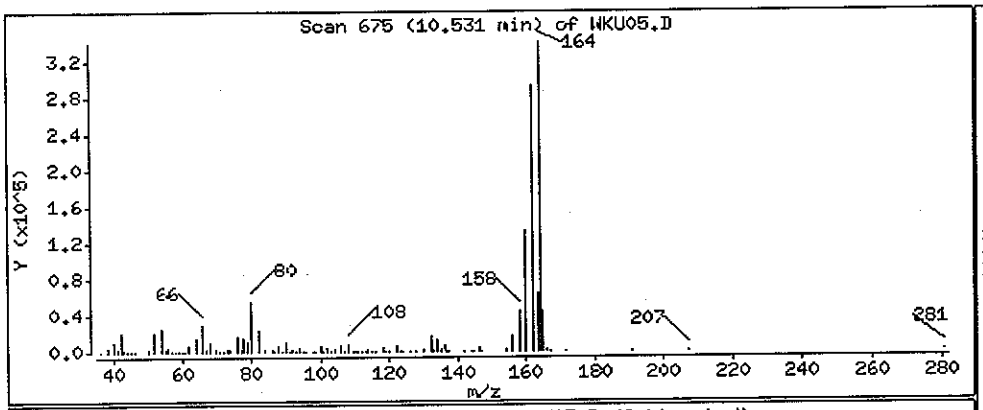
Operator: BVD

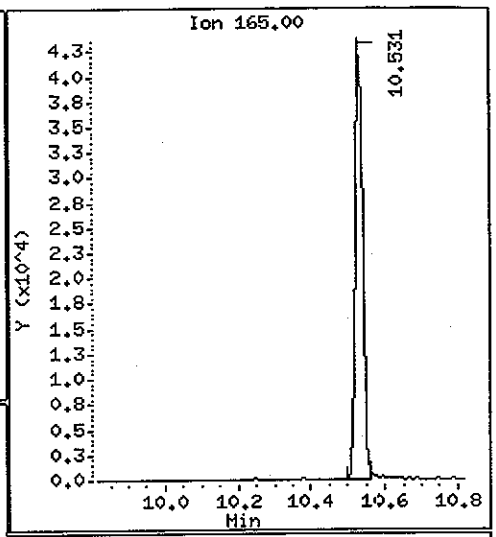
Column phase: Xti 5 x .5 u

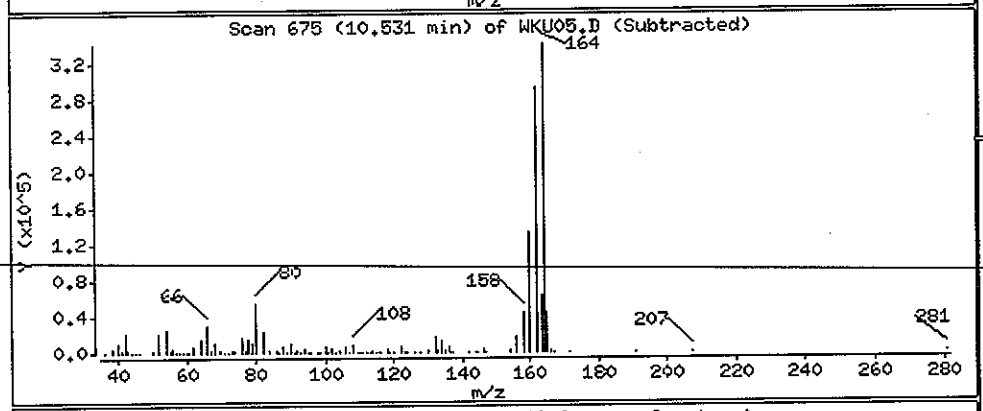
Column diameter: 0.25

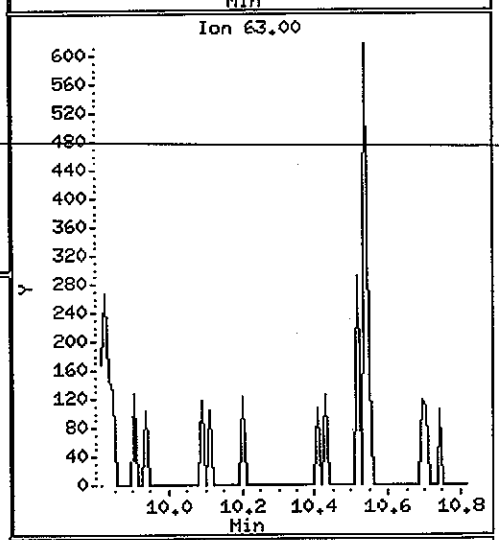
41 2,6-Dinitrotoluene

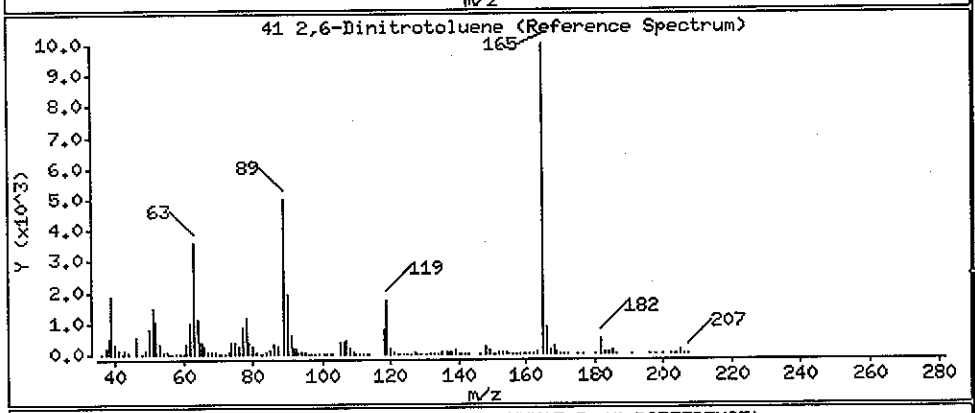
Concentration: 15.1088 ug/L

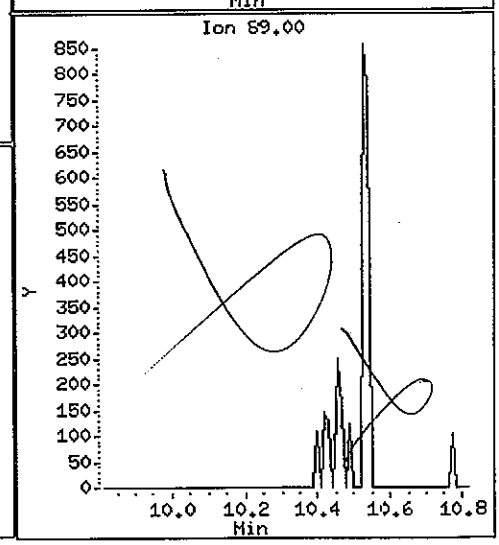


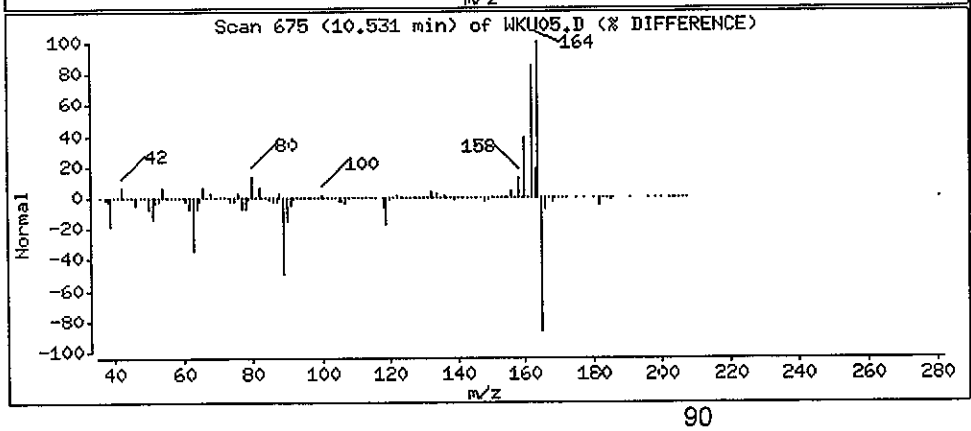












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

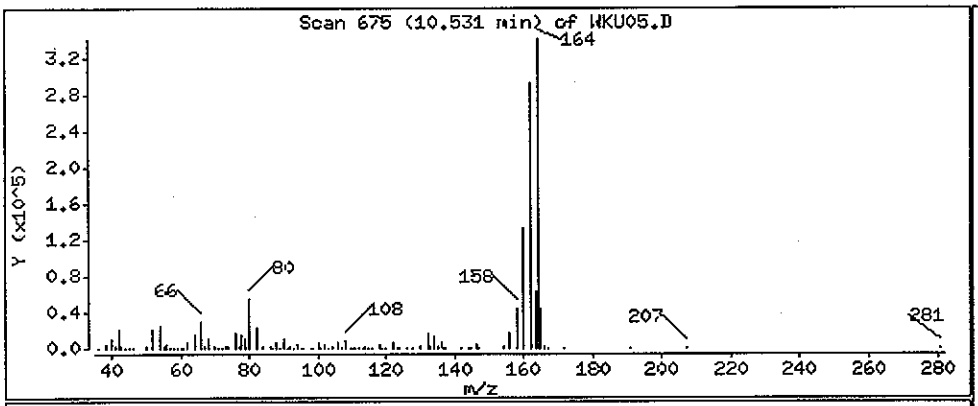
Operator: BVD

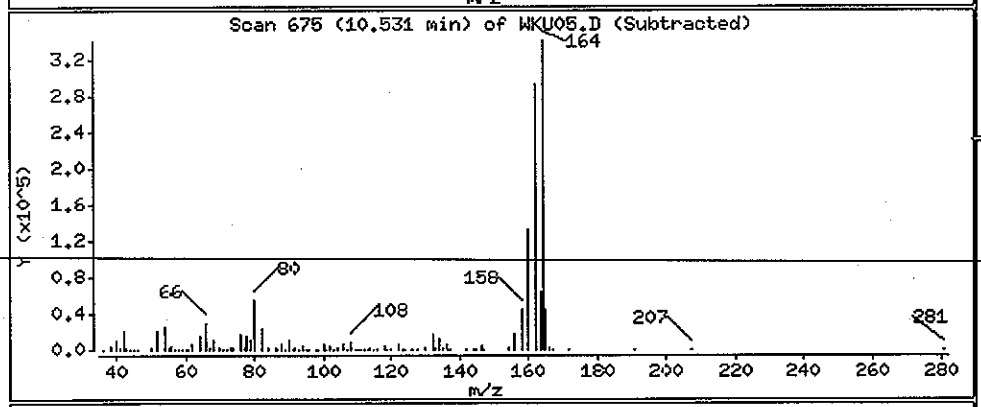
Column phase: Xti 5 x .5 u

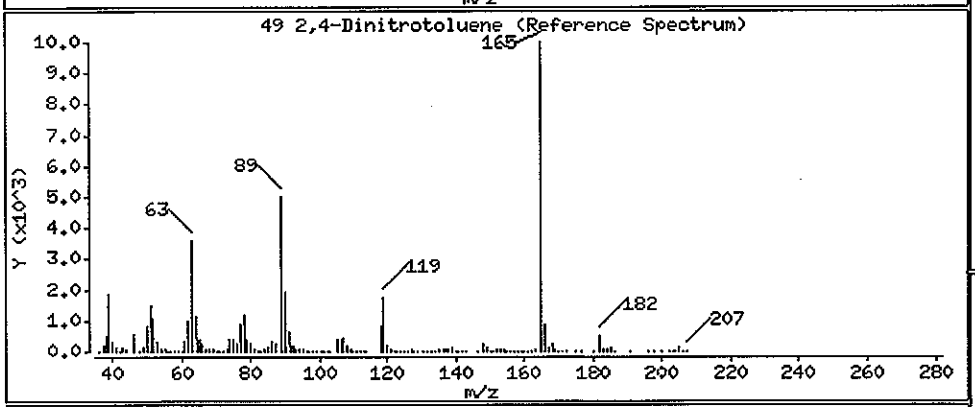
Column diameter: 0.25

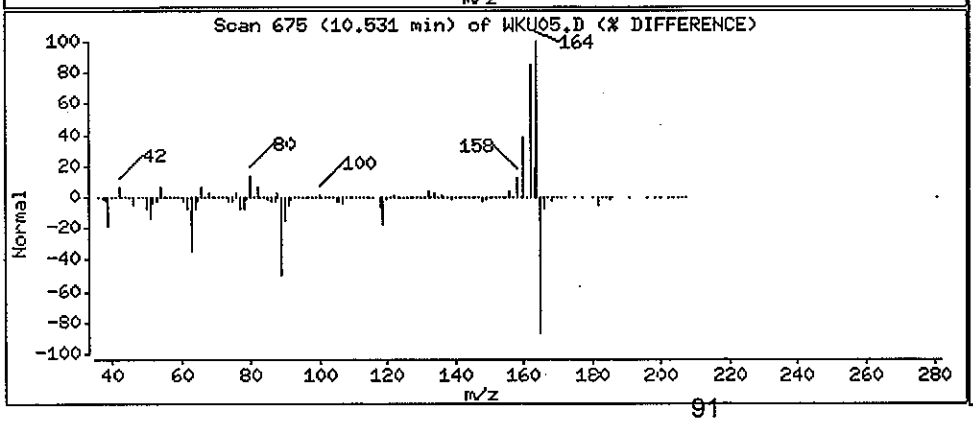
49 2,4-Dinitrotoluene

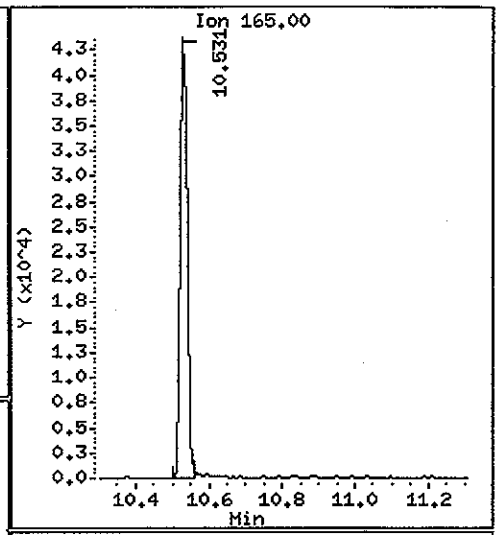
Concentration: 11.4896 ug/L

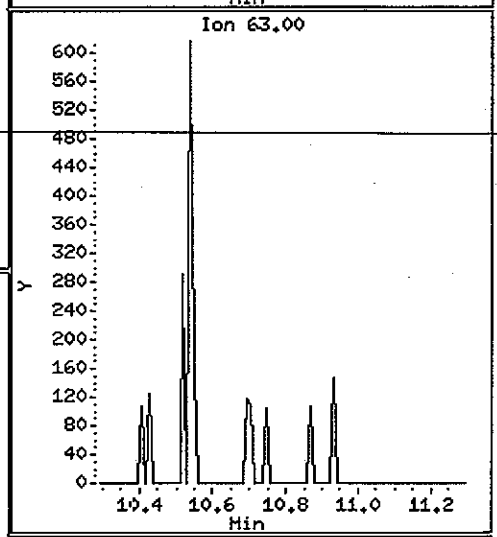


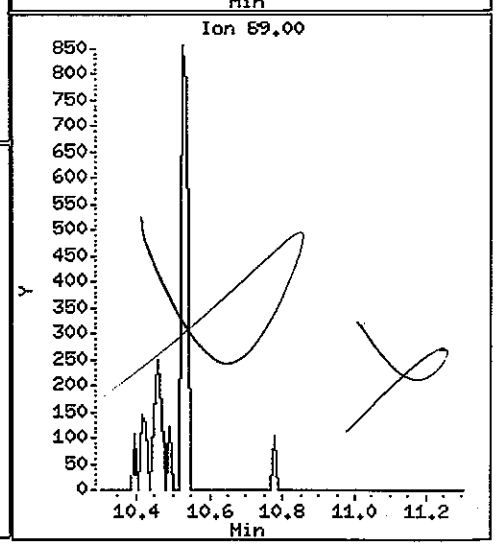












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

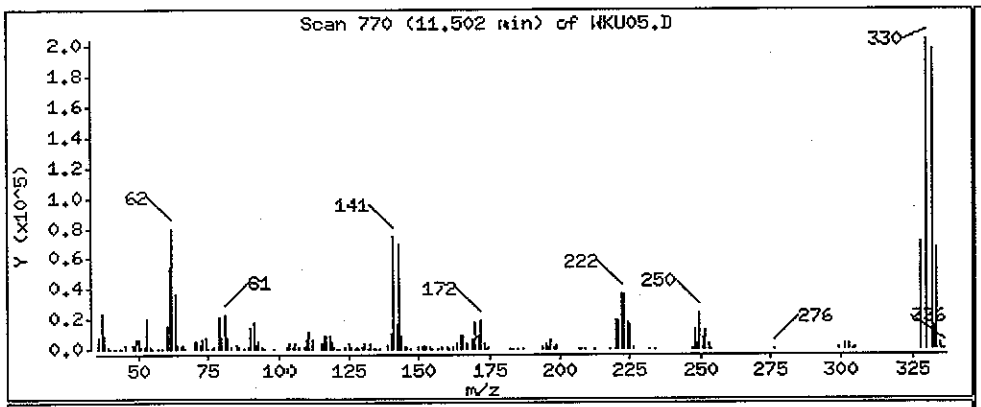
Operator: BVD

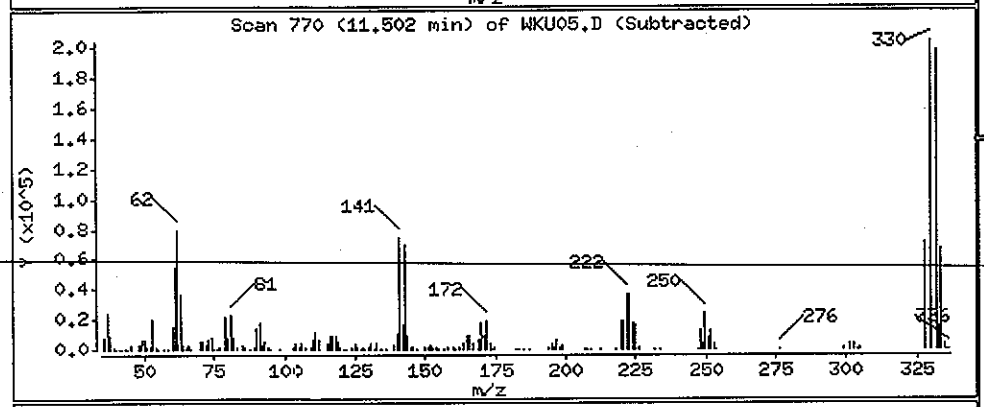
Column phase: Xti 5 x .5 u

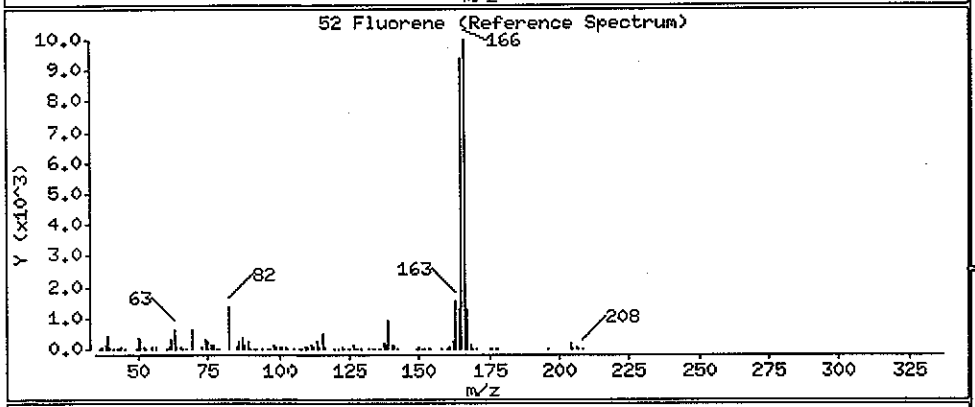
Column diameter: 0.25

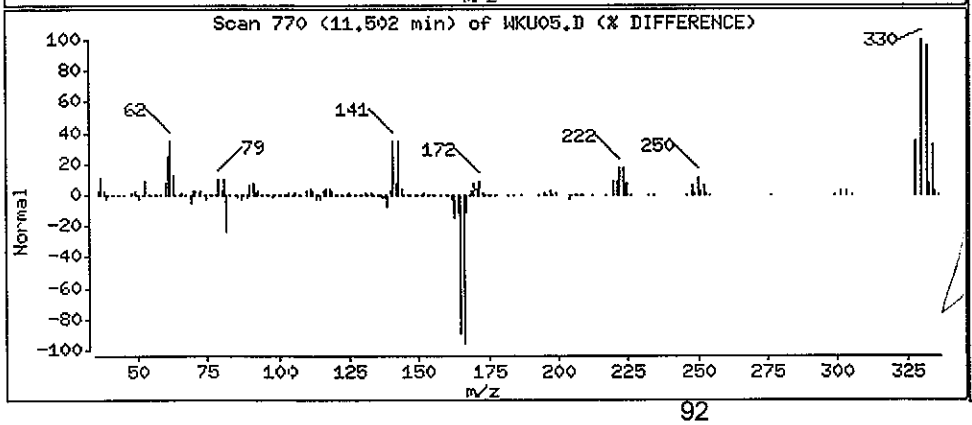
52 Fluorene

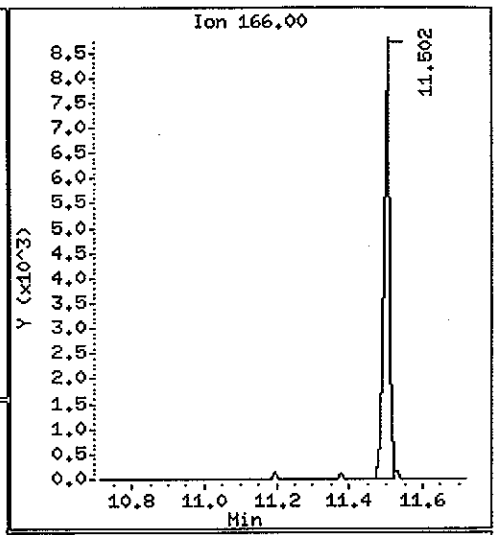
Concentration: 0.7454 ug/L

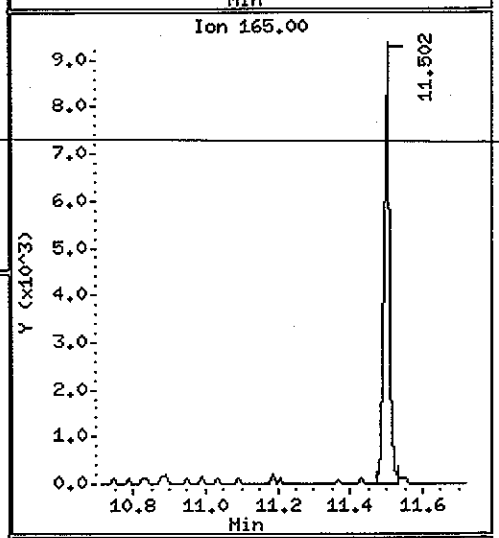


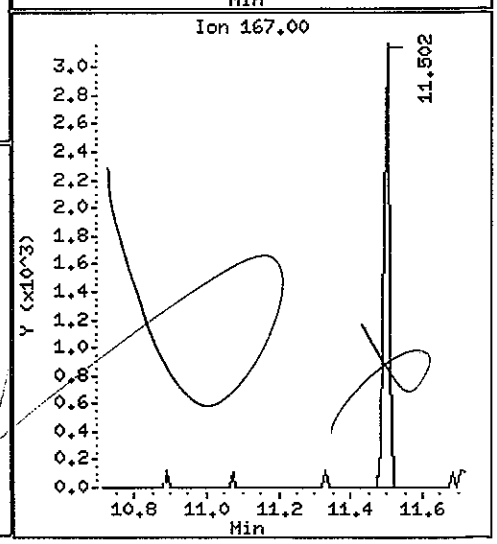












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D

Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

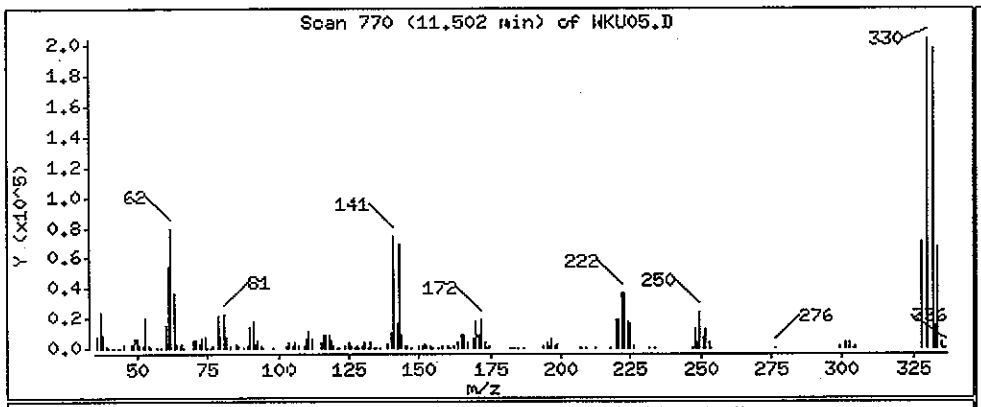
Operator: BVD

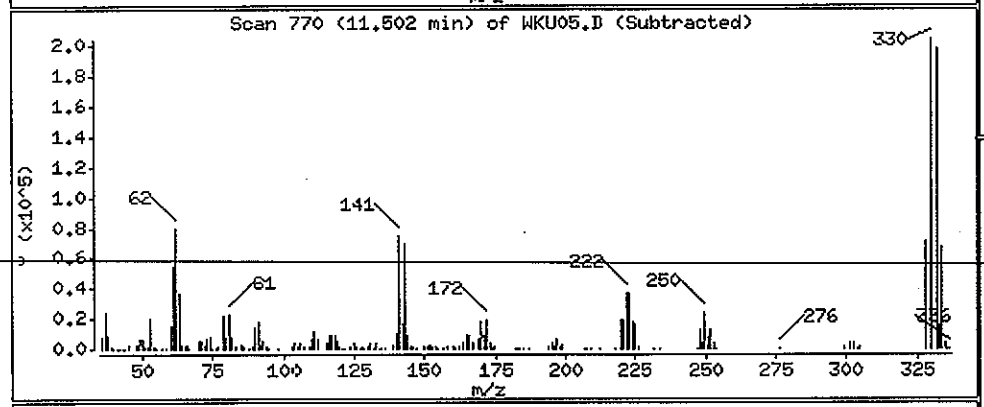
Column phase: Xti 5 x .5 u

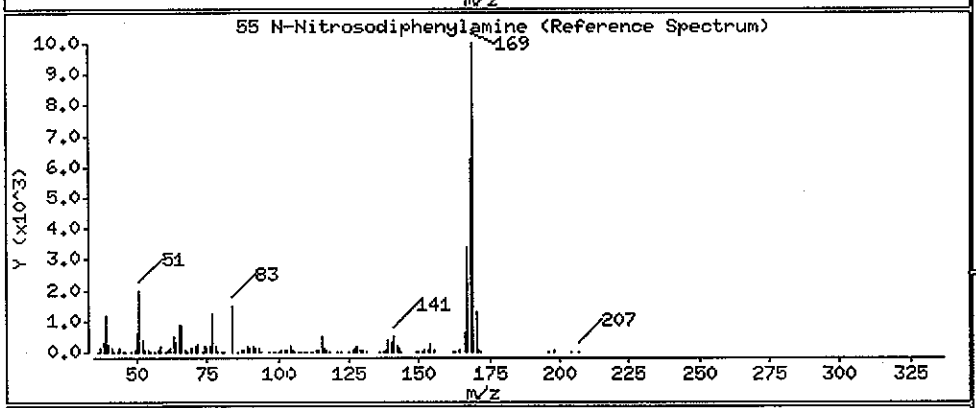
Column diameter: 0.25

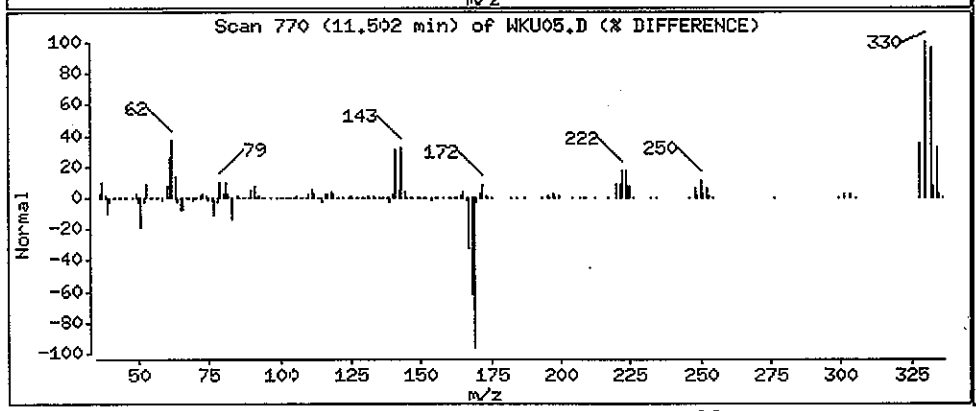
55 N-Nitrosodiphenylamine

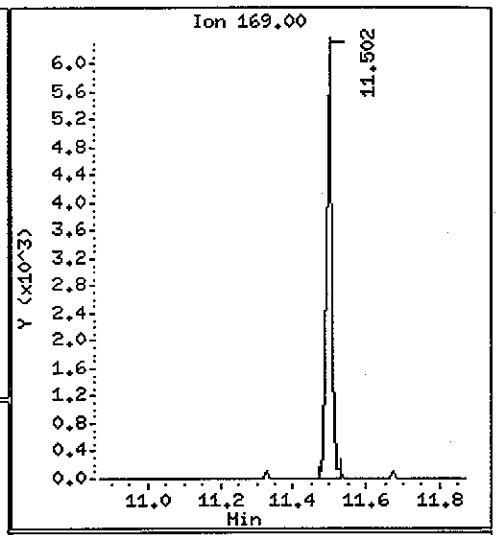
Concentration: 0.7859 ug/L

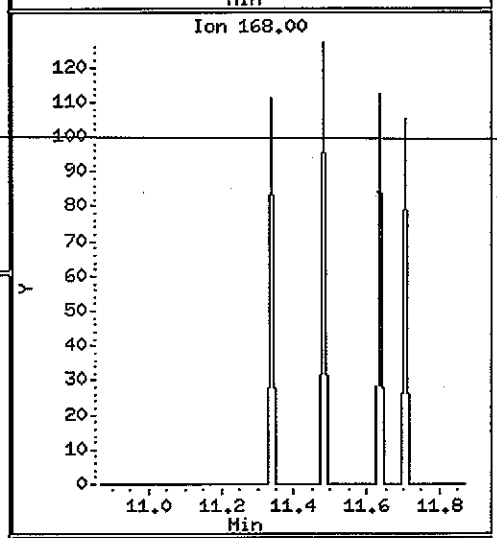


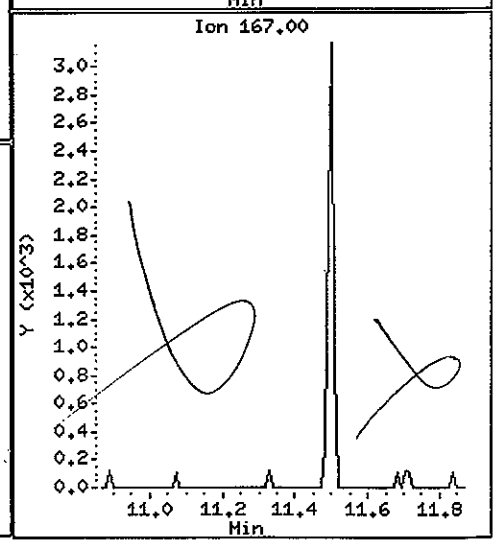












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

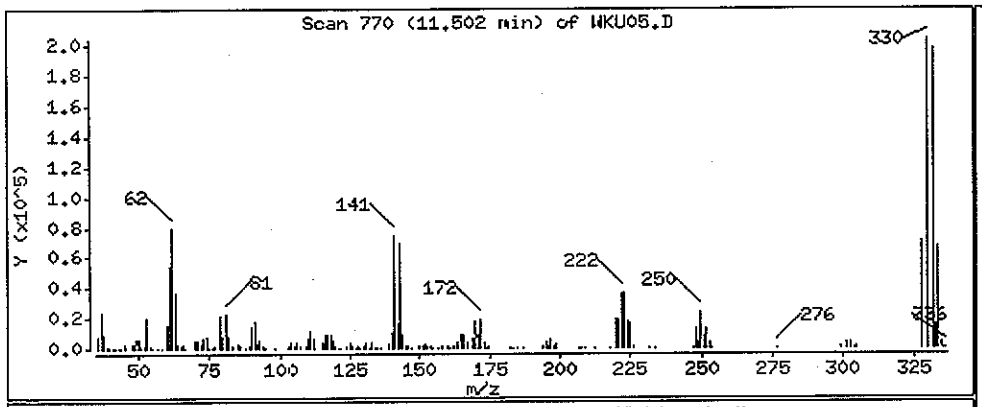
Operator: BVD

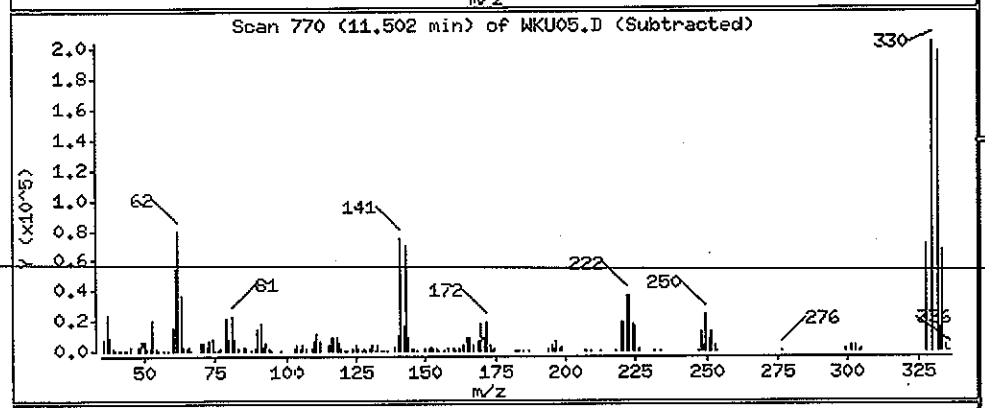
Column phase: Xti 5 x .5 u

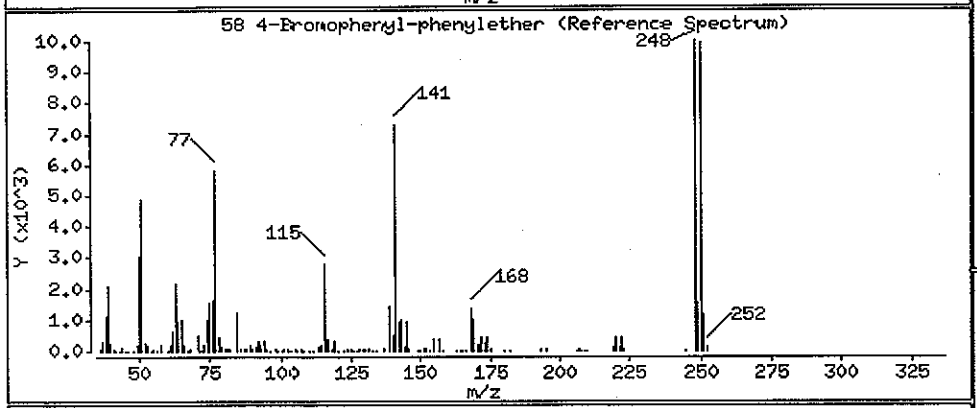
Column diameter: 0.25

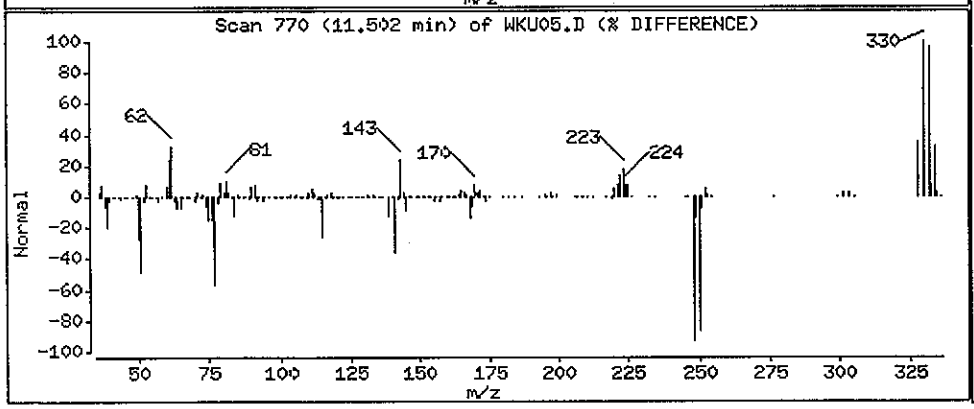
58 4-Bromophenyl-phenylether

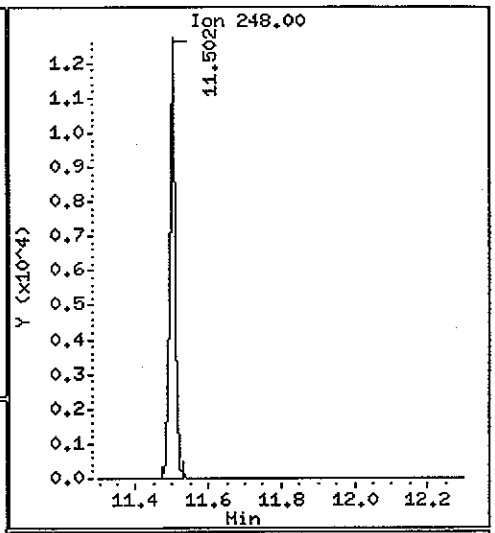
Concentration: 2.9168 ug/L

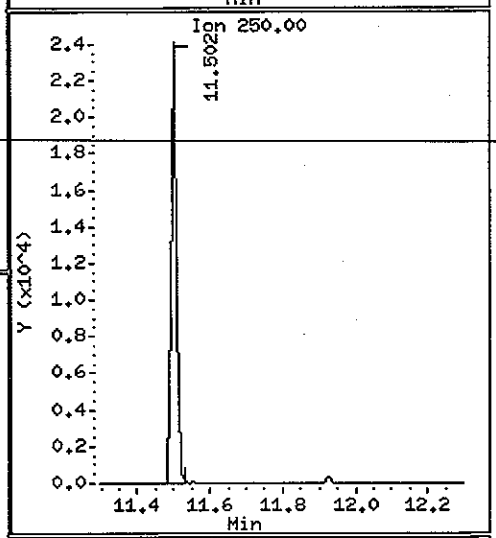


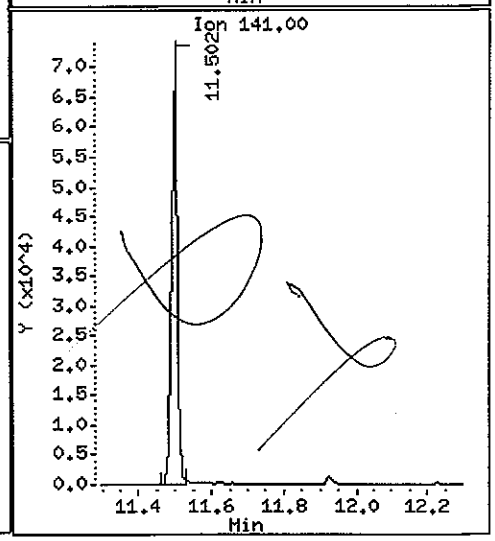












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

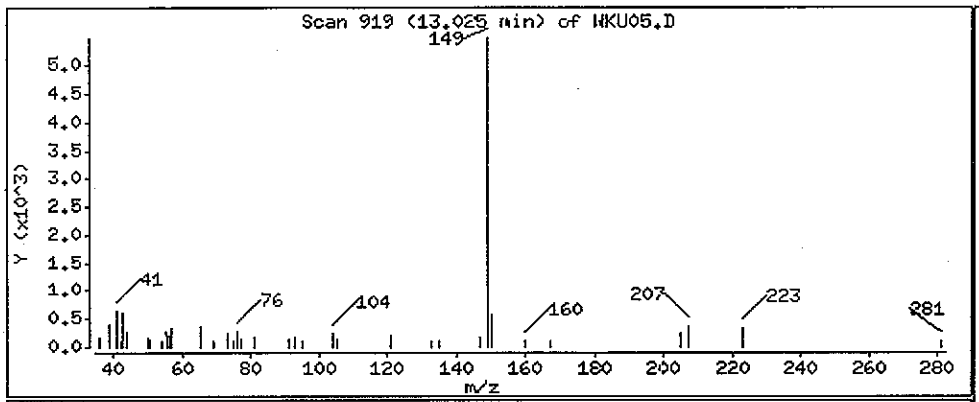
Operator: BVD

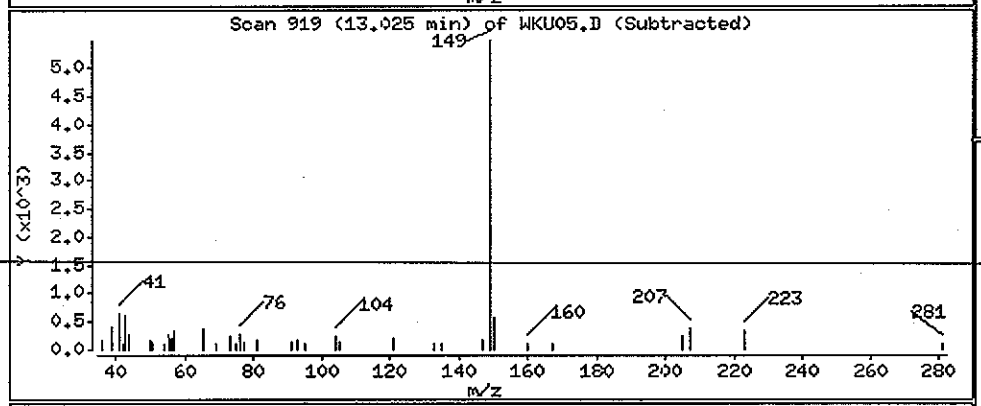
Column phase: Xti 5 x .5 u

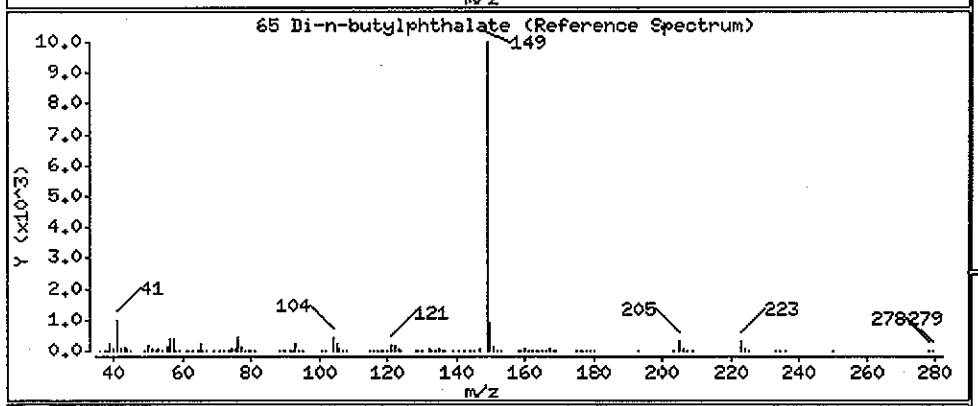
Column diameter: 0.25

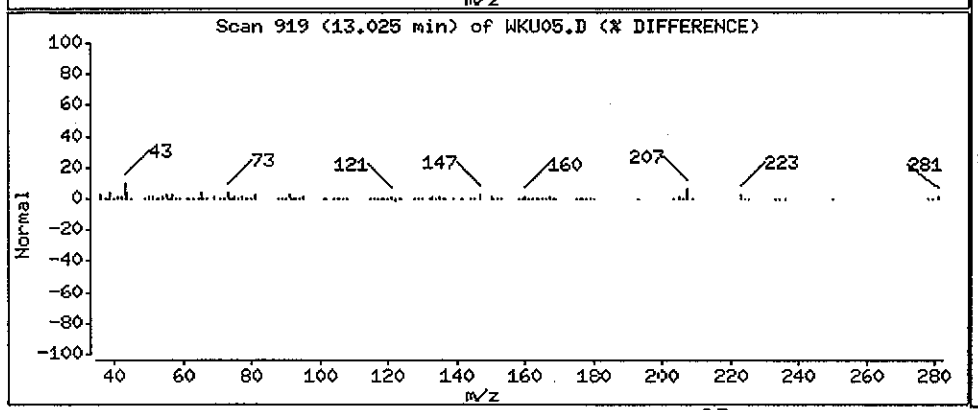
65 Di-n-butylphthalate

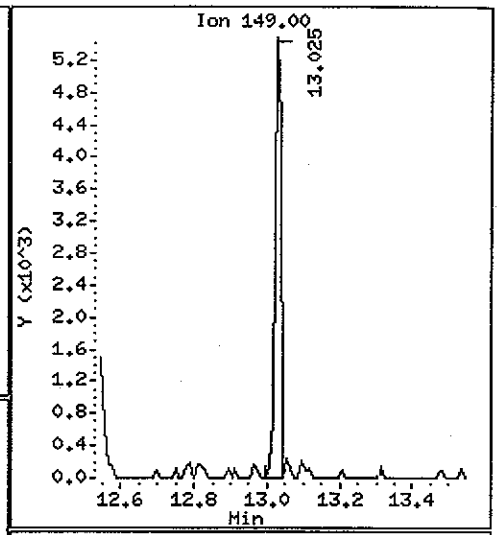
Concentration: 0.2231 ug/L

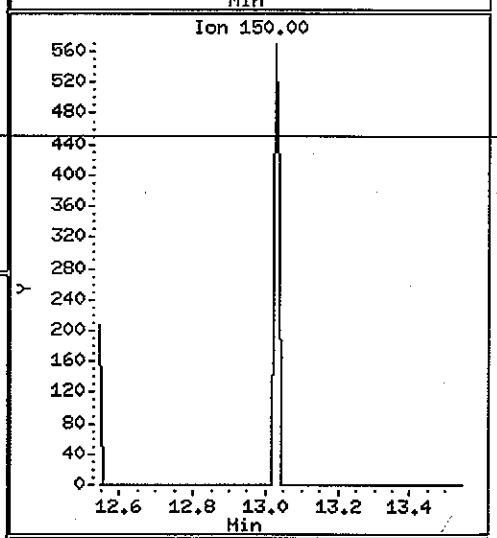


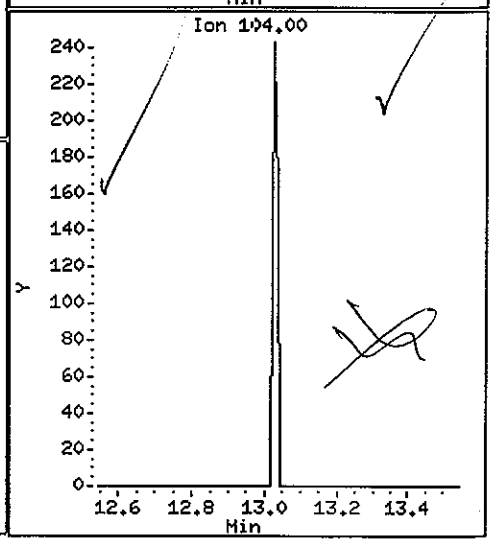












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

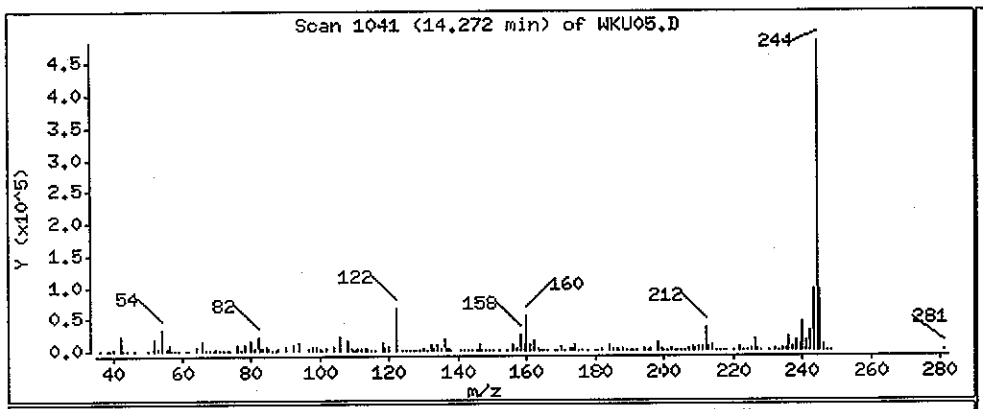
Operator: BVD

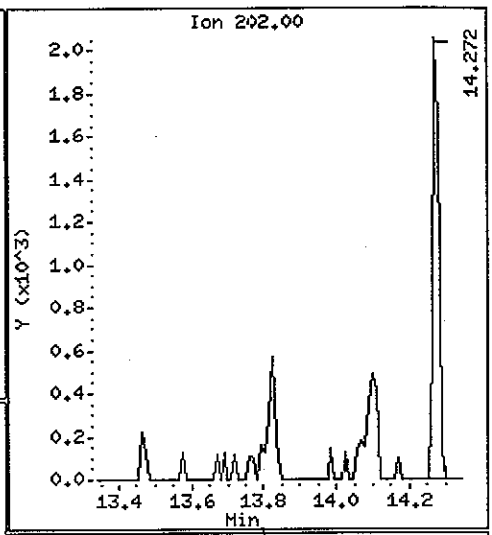
Column phase: Xti 5 x .5 u

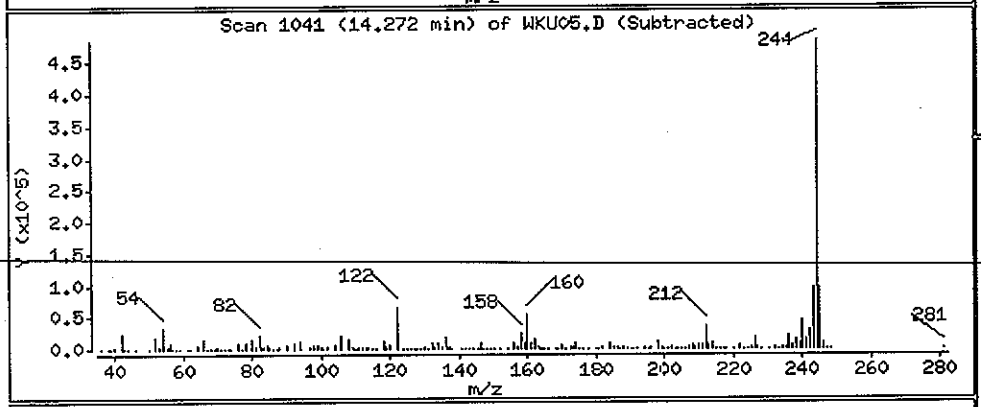
Column diameter: 0.25

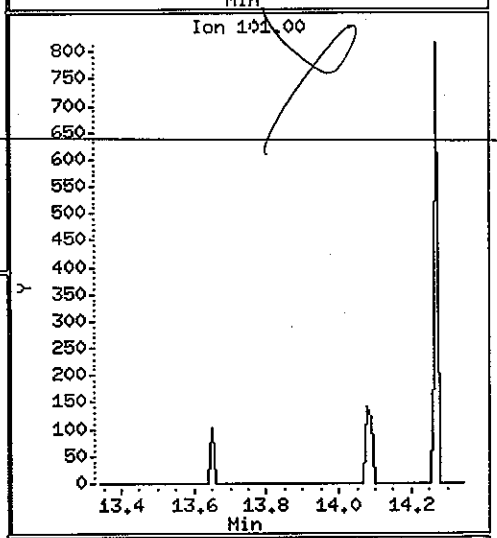
66 Fluoranthene

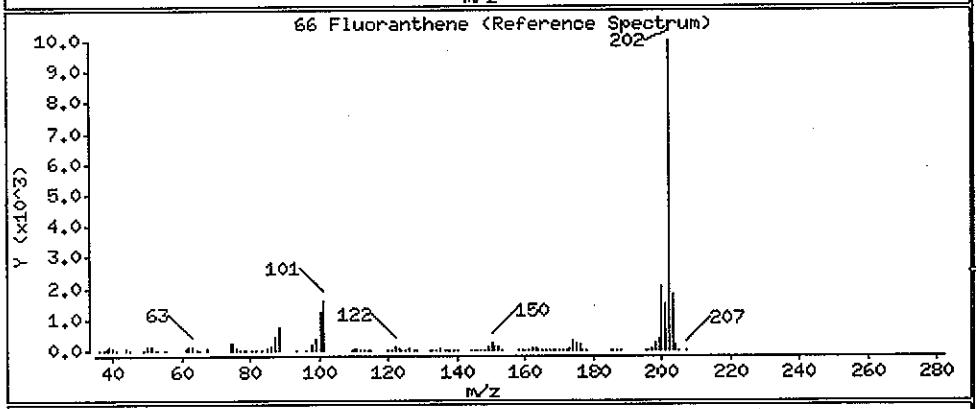
Concentration: 0.1178 ug/L

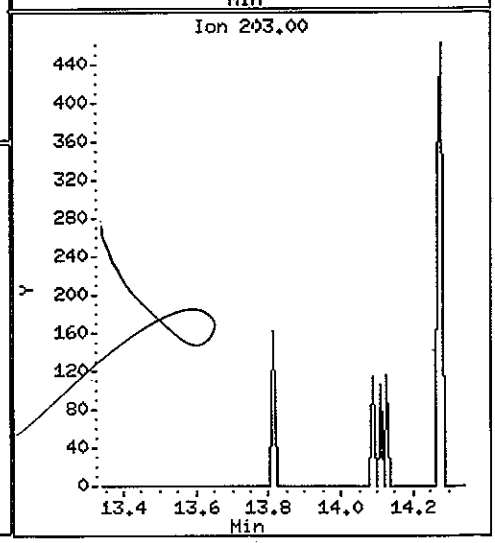


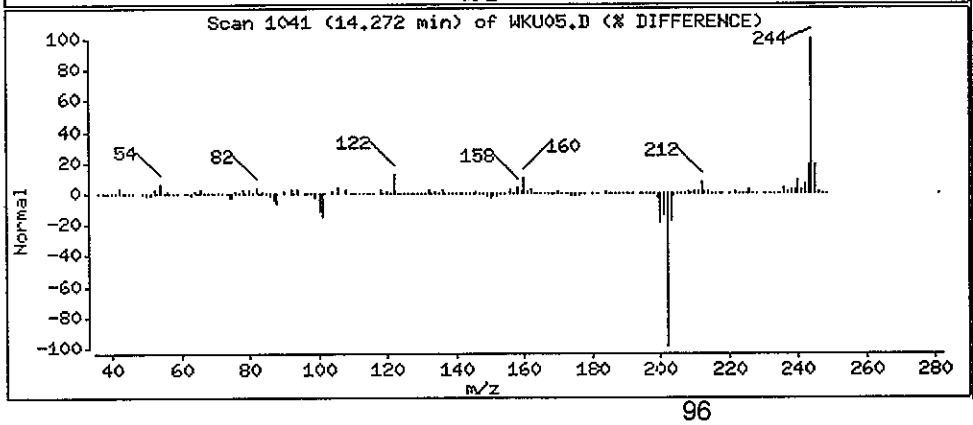












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

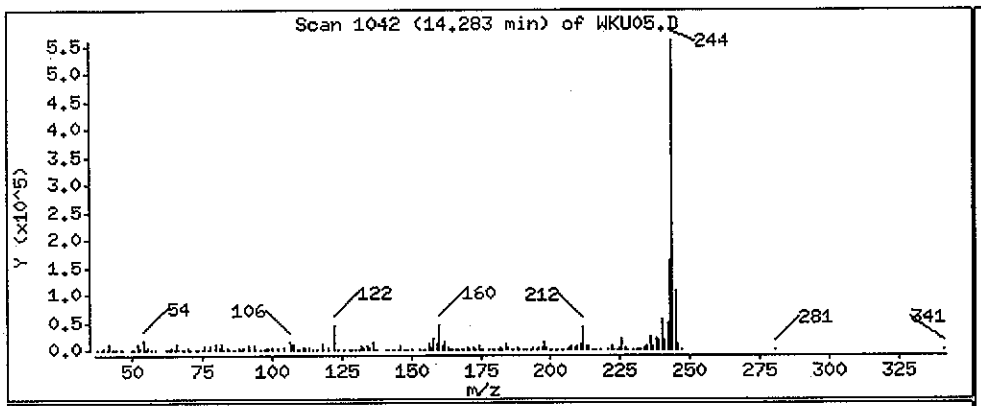
Operator: BVD

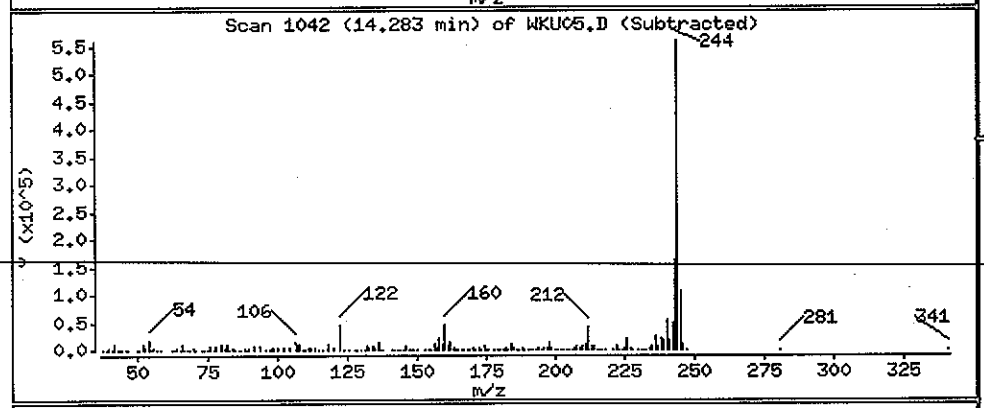
Column phase: Xti 5 x .5 u

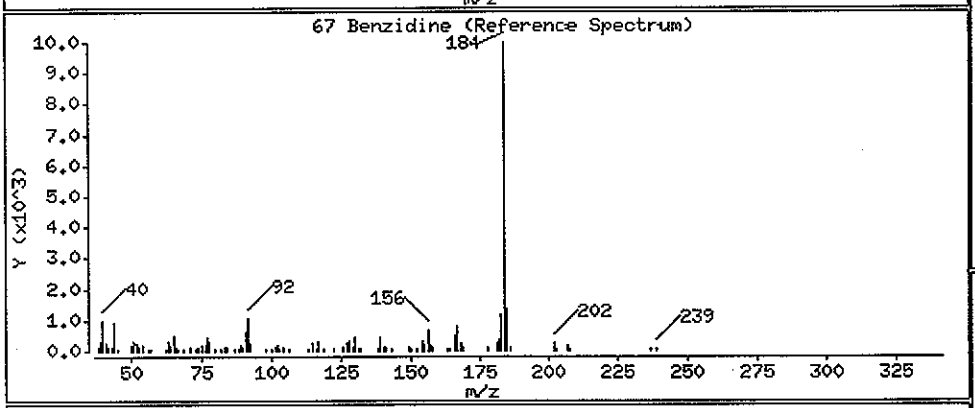
Column diameter: 0.25

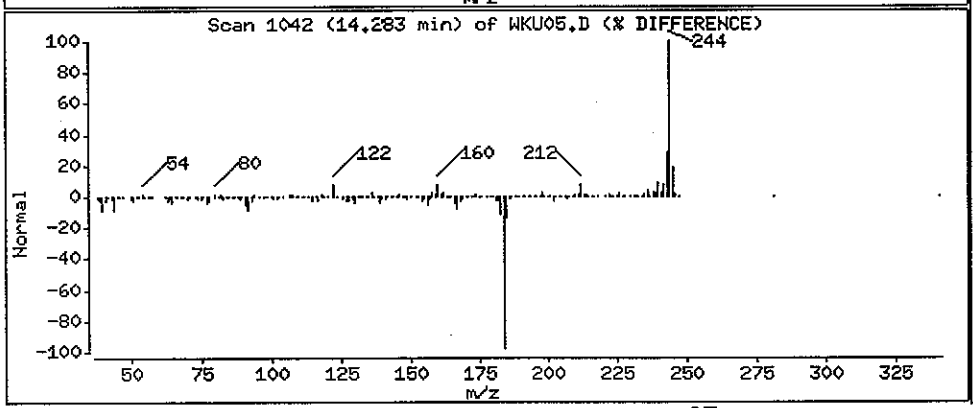
67 Benzidine

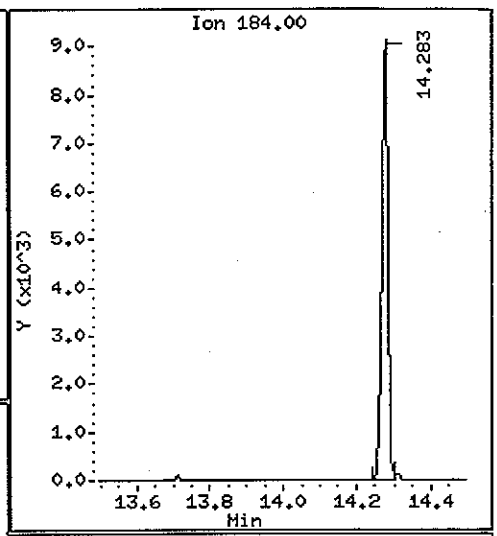
Concentration: 10.0478 ug/L

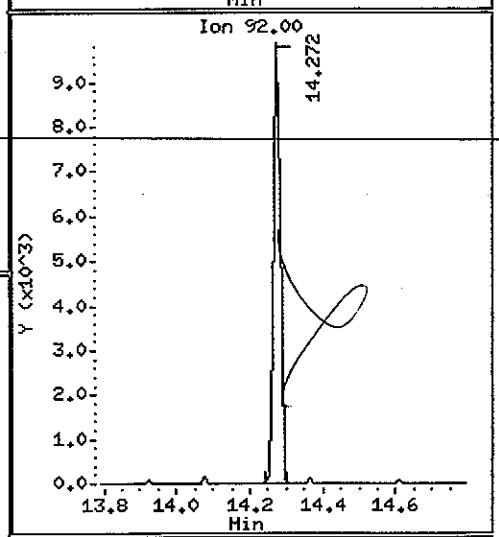


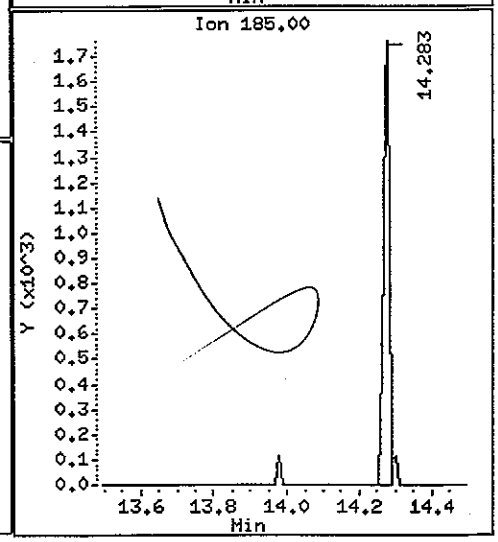












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

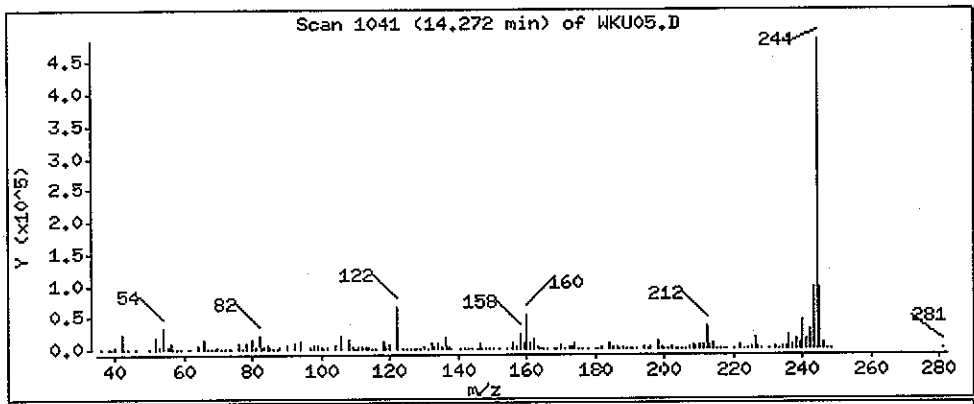
Operator: BVD

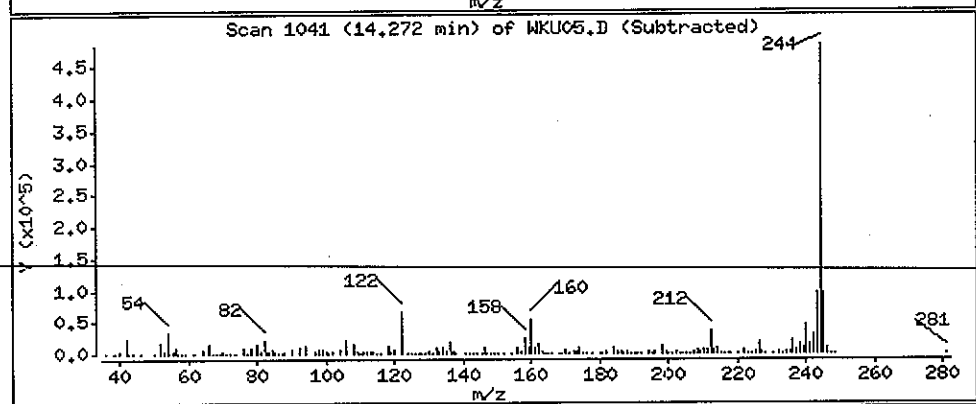
Column phase: Xti 5 x .5 u

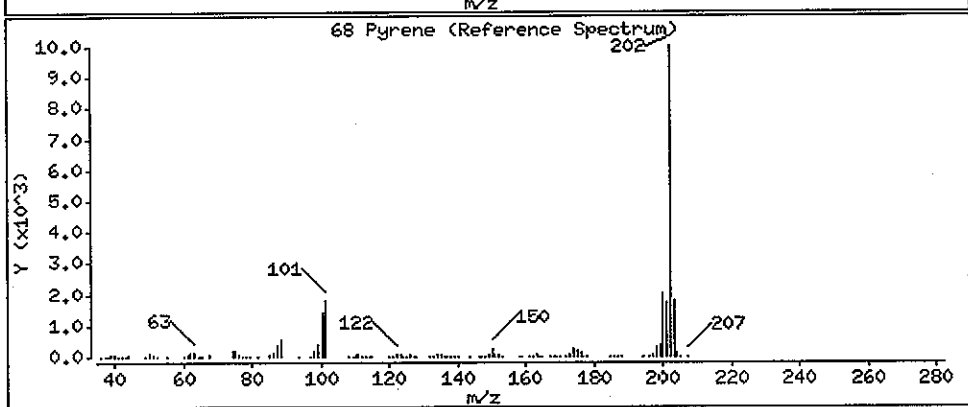
Column diameter: 0.25

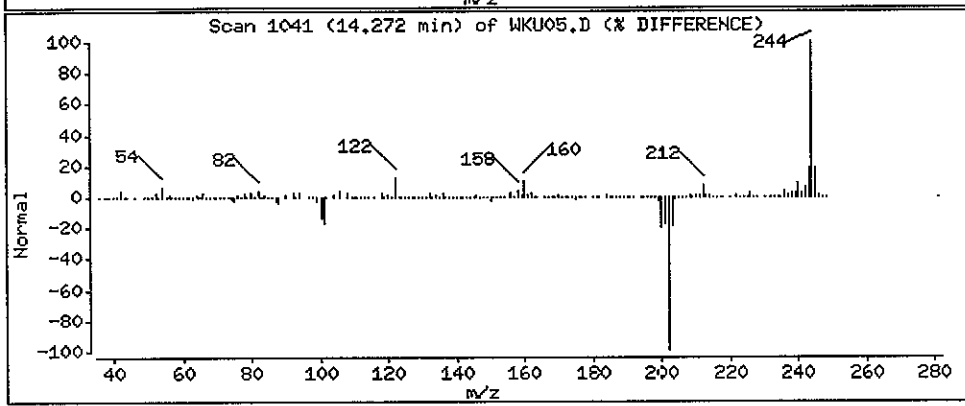
68 Pyrene

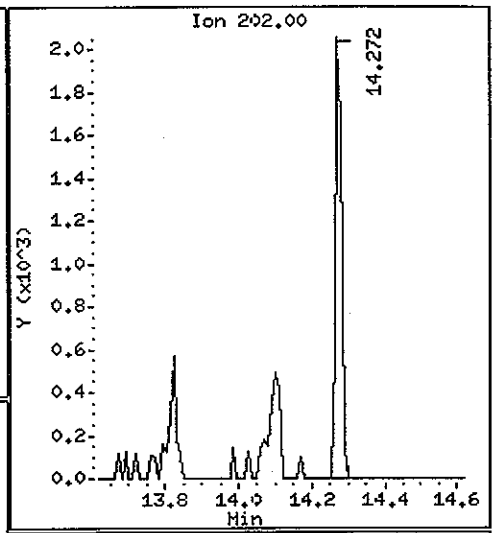
Concentration: 0.1106 ug/L

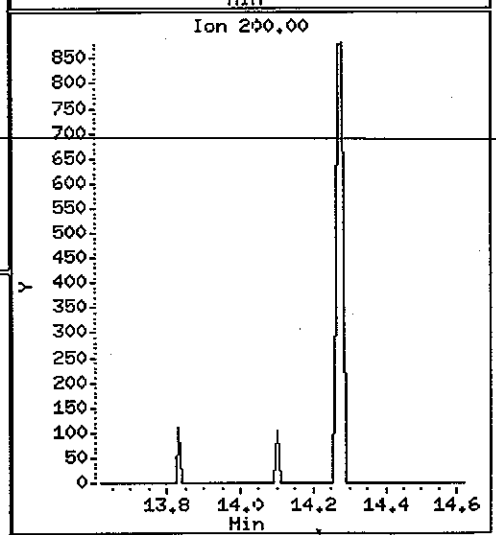


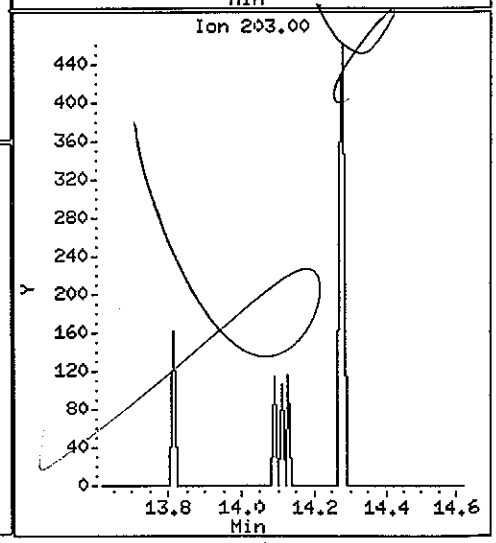












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

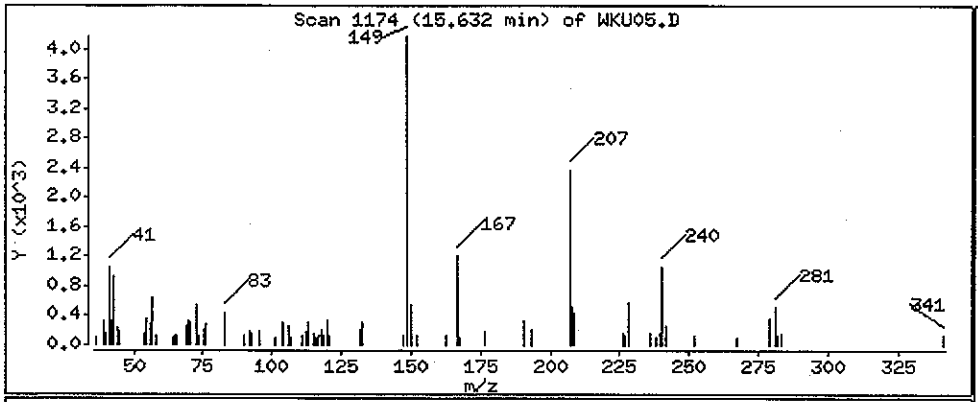
Operator: BVD

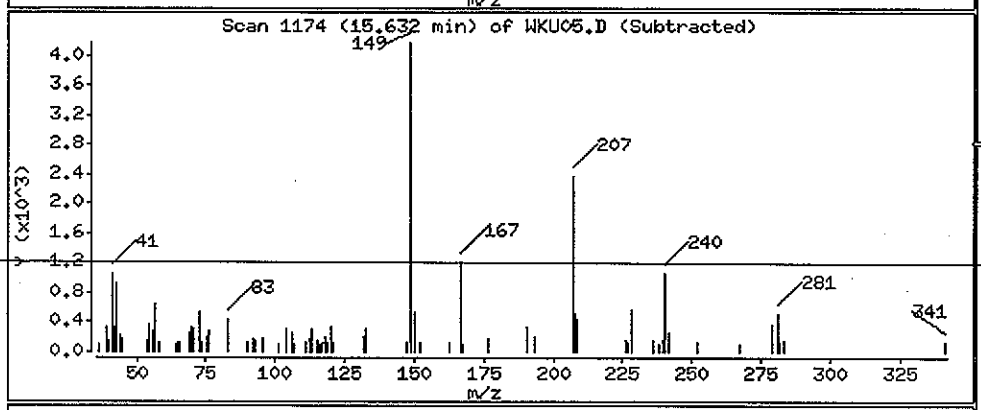
Column phase: Xti 5 x .5 u

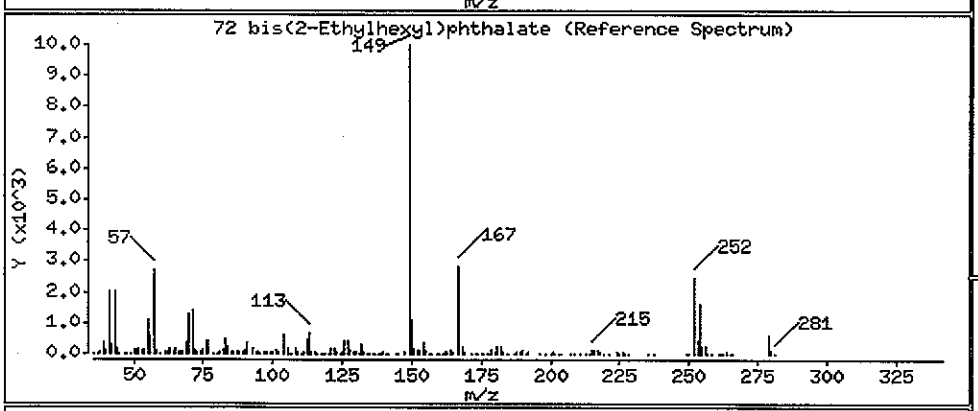
Column diameter: 0.25

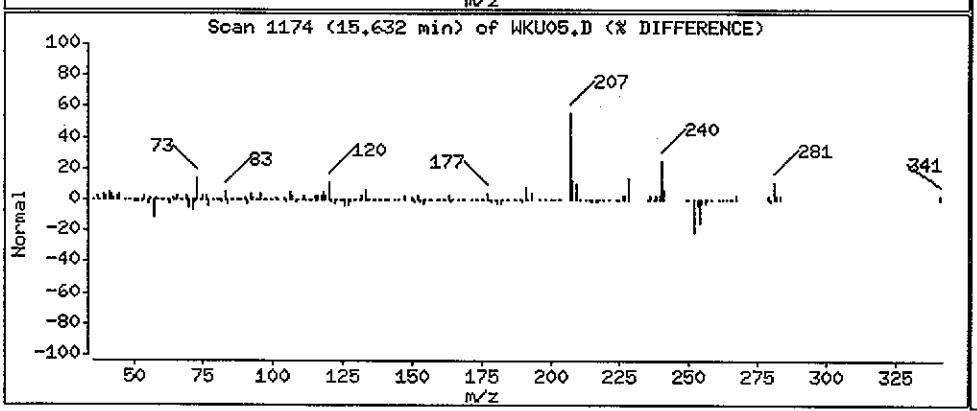
72 bis(2-Ethylhexyl)phthalate

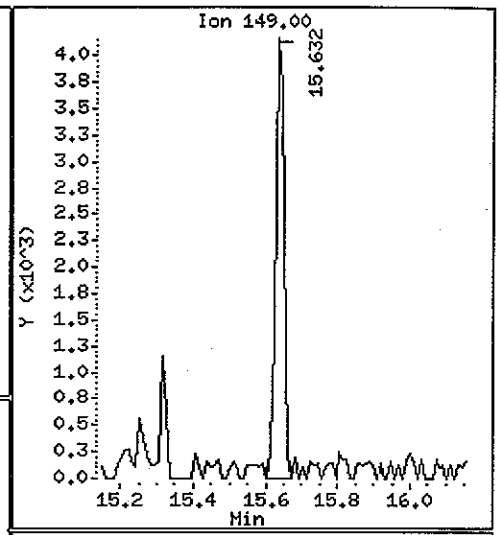
Concentration: 0.3349 ug/L

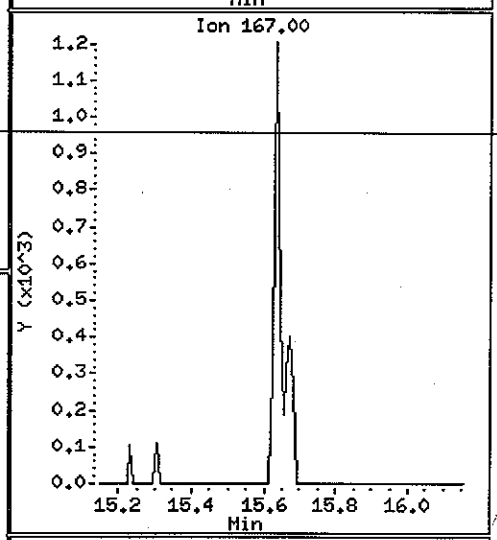


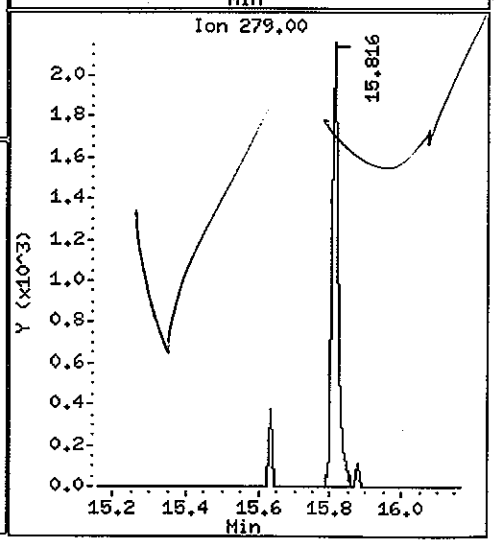












Data File:/\\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D

Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

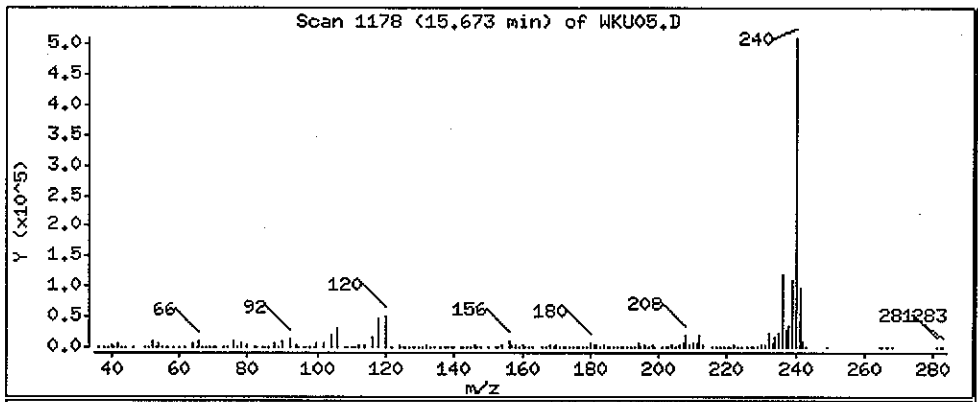
Operator: BVD

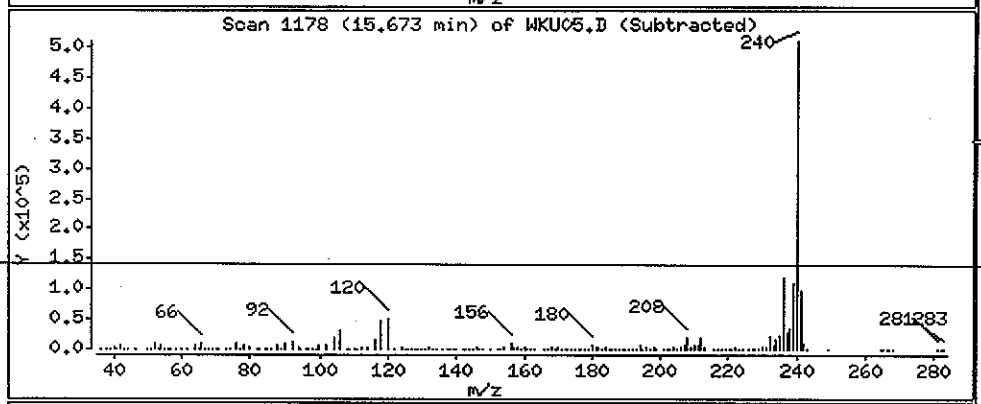
Column phase: Xti 5 x .5 u

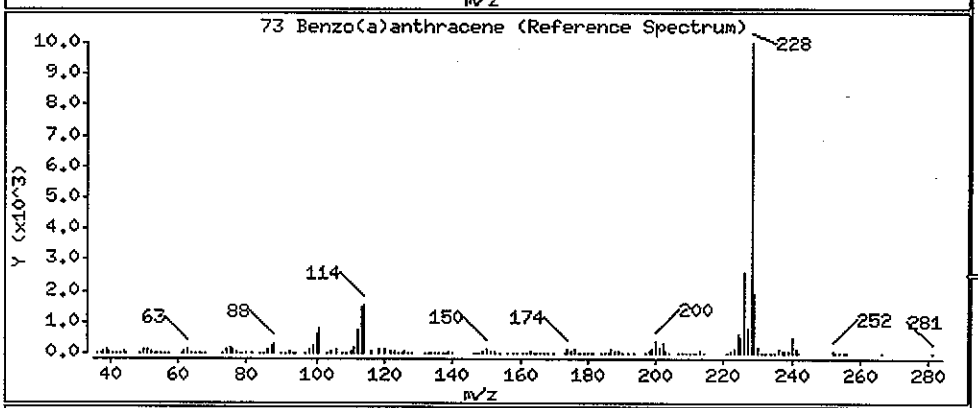
Column diameter: 0.25

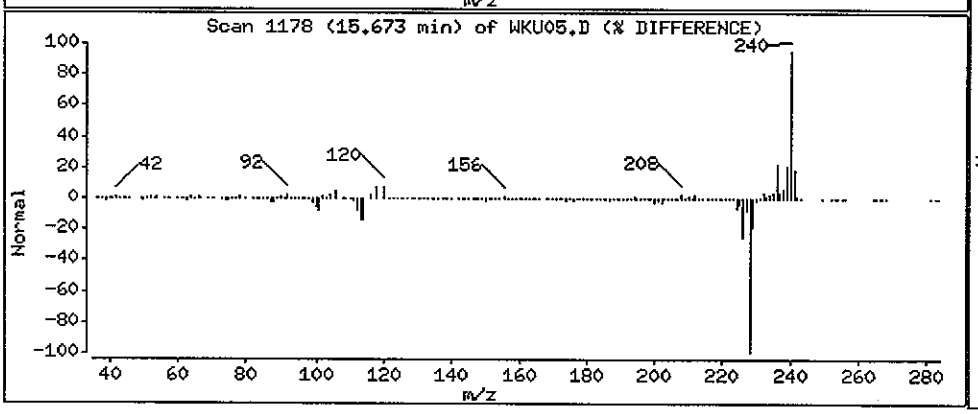
73 Benzo(a)anthracene

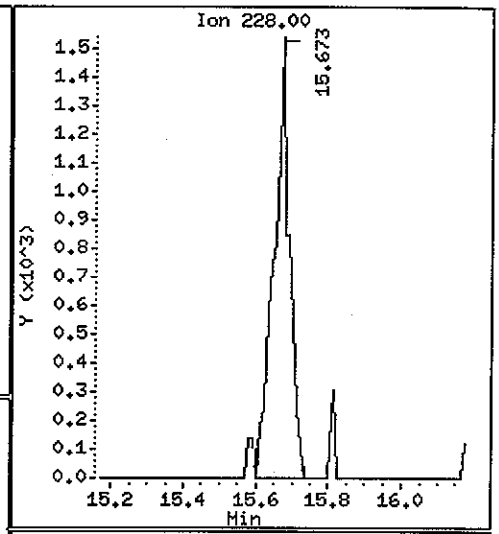
Concentration: 0.2002 ug/L

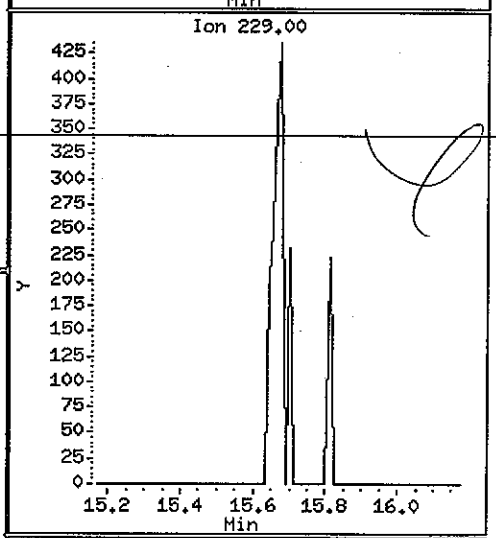


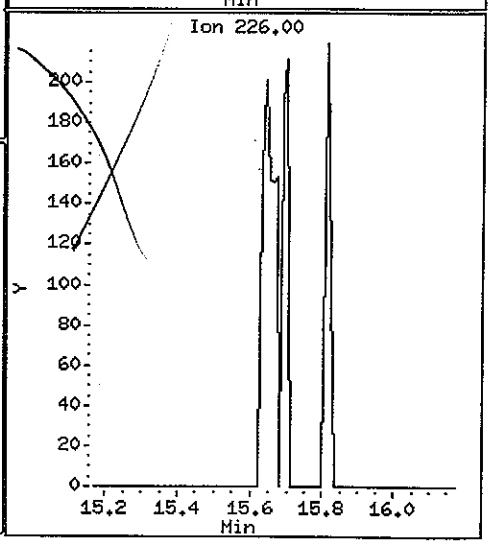












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

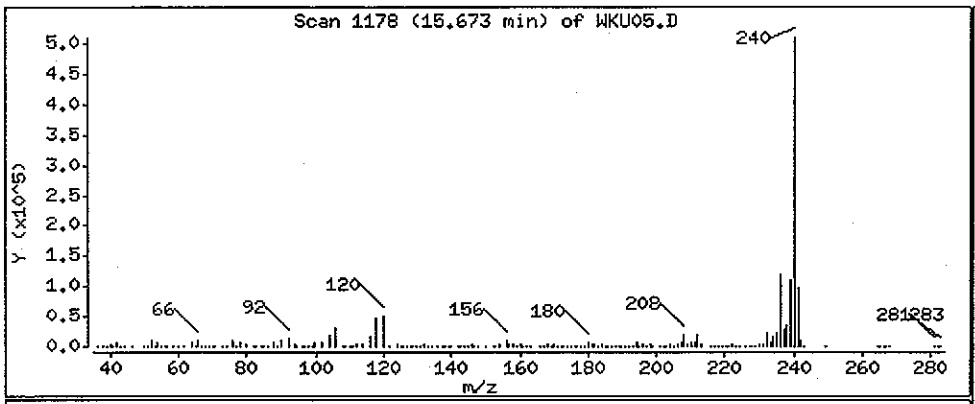
Operator: BVD

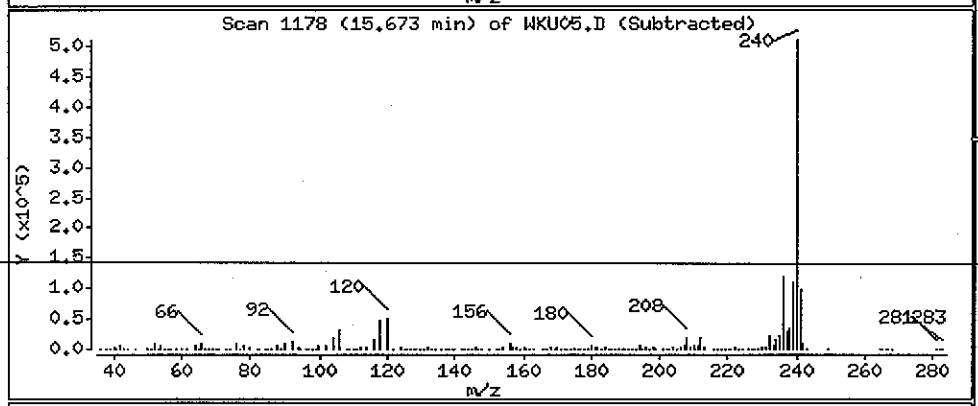
Column phase: Xti 5 x .5 u

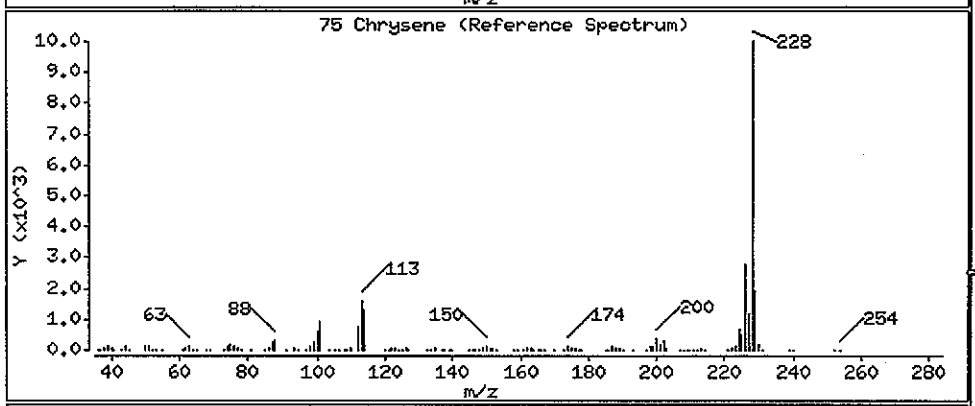
Column diameter: 0.25

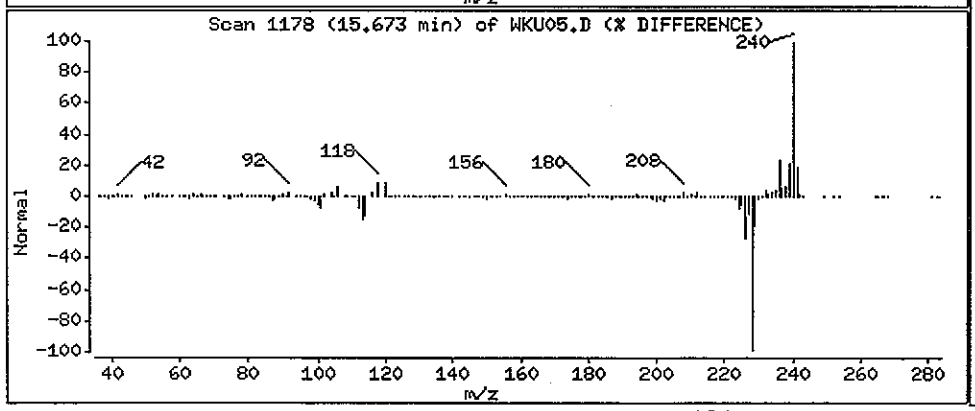
75 Chrysene

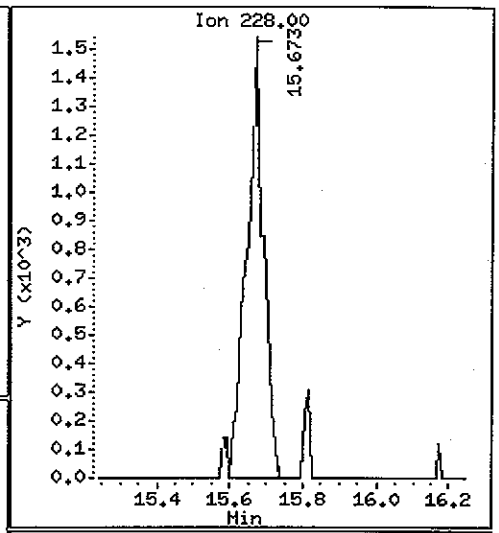
Concentration: 0.2277 ug/L

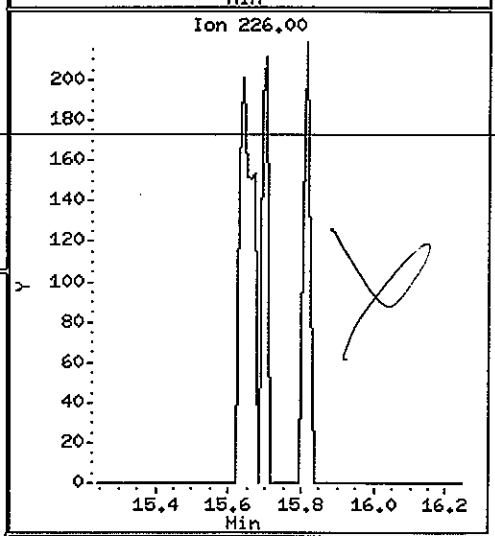


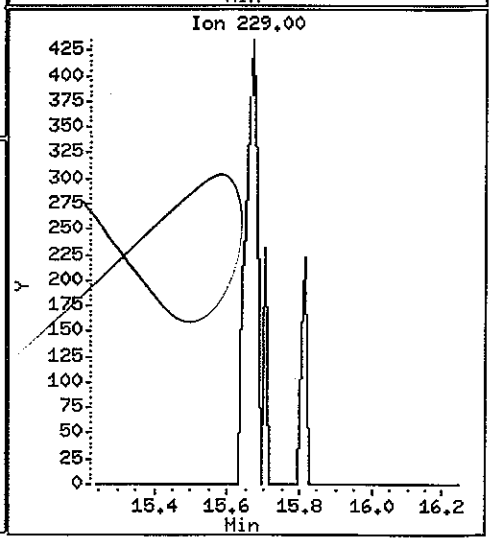












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Date : 30-NOV-2004 13:55

Client ID: CURTIS&TOMPKINS

Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0

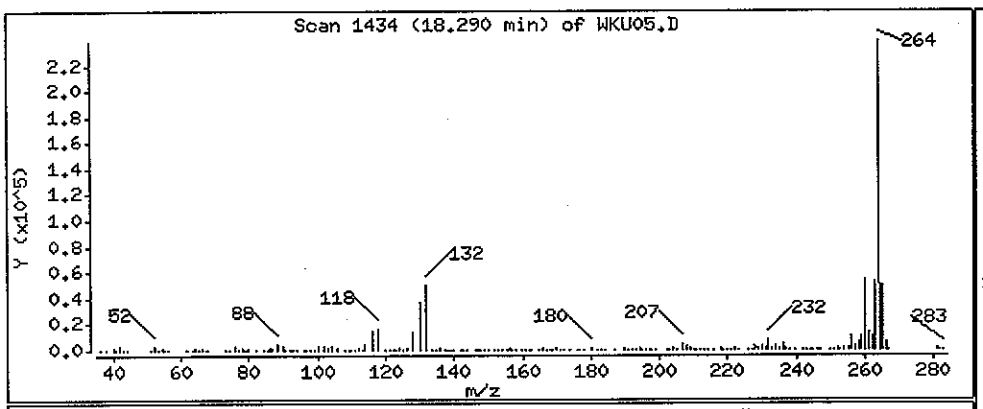
Operator: BVD

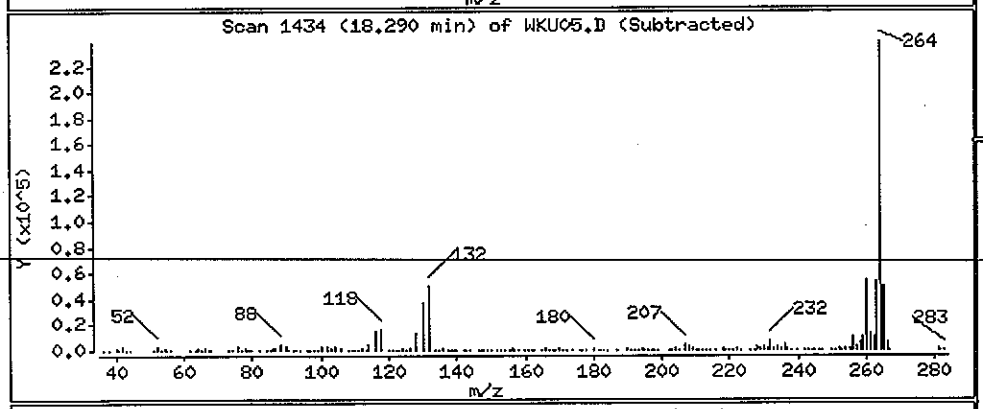
Column phase: Xti 5 x .5 u

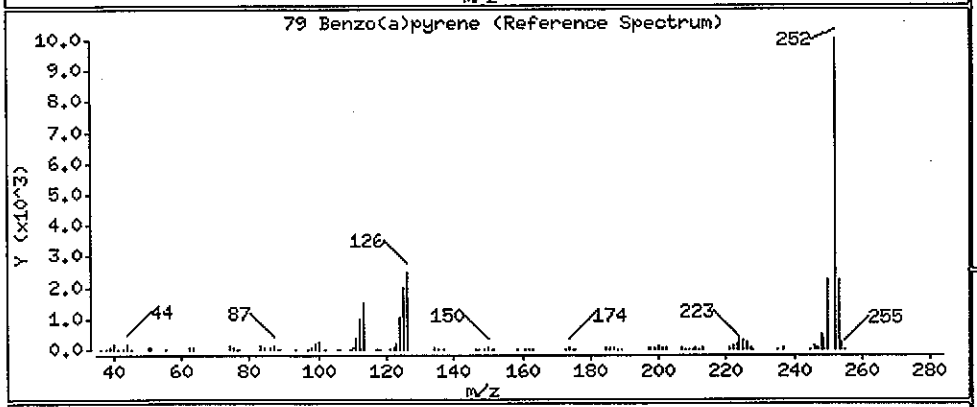
Column diameter: 0.25

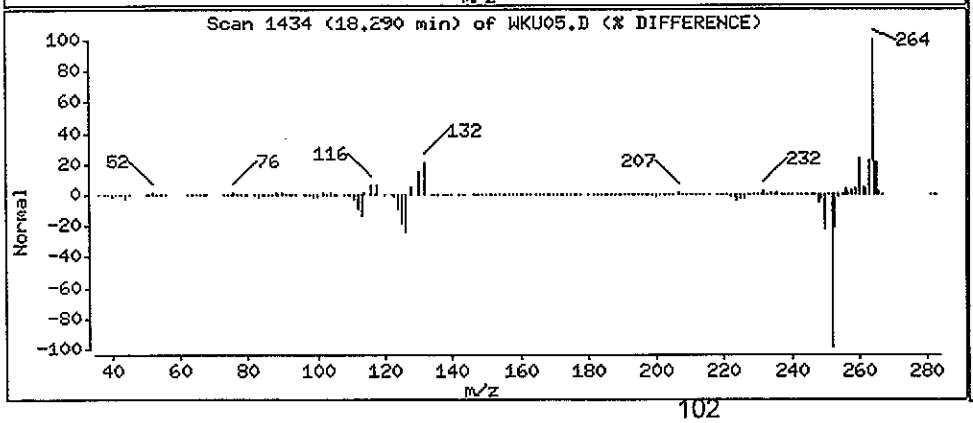
79 Benzo(a)pyrene

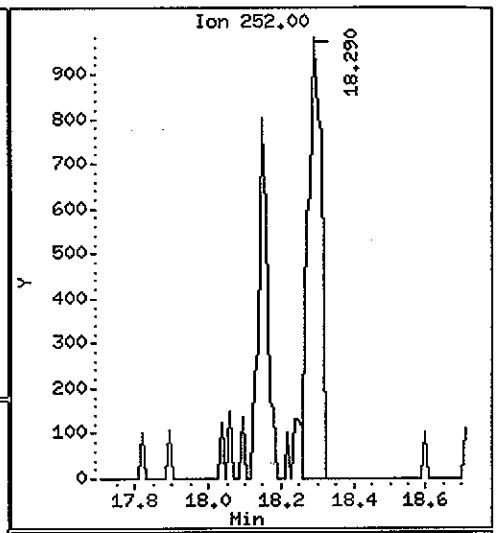
Concentration: 0.1226 ug/L

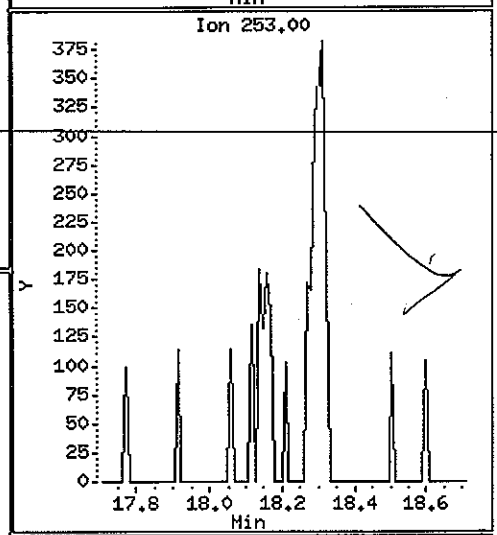


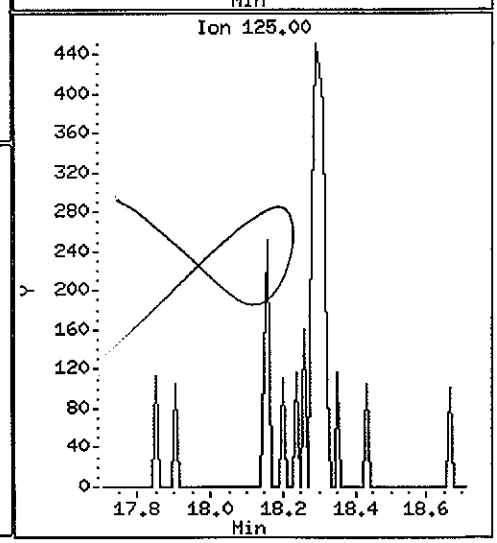












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Date : 30-NOV-2004 13:55

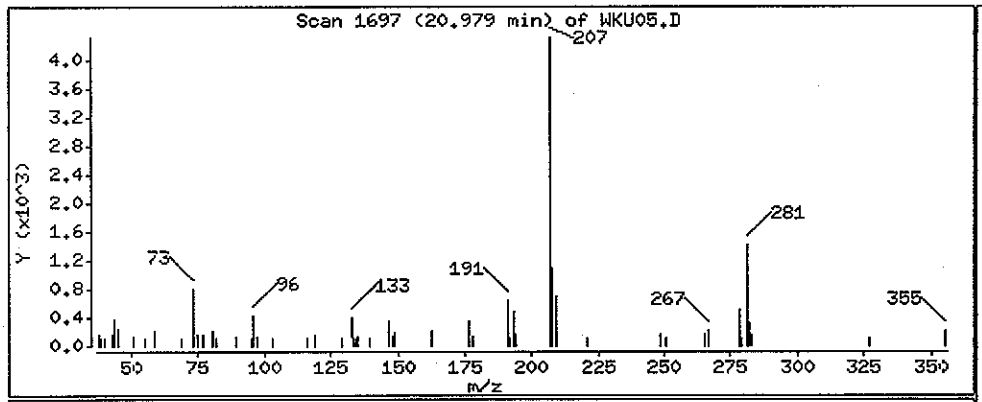
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

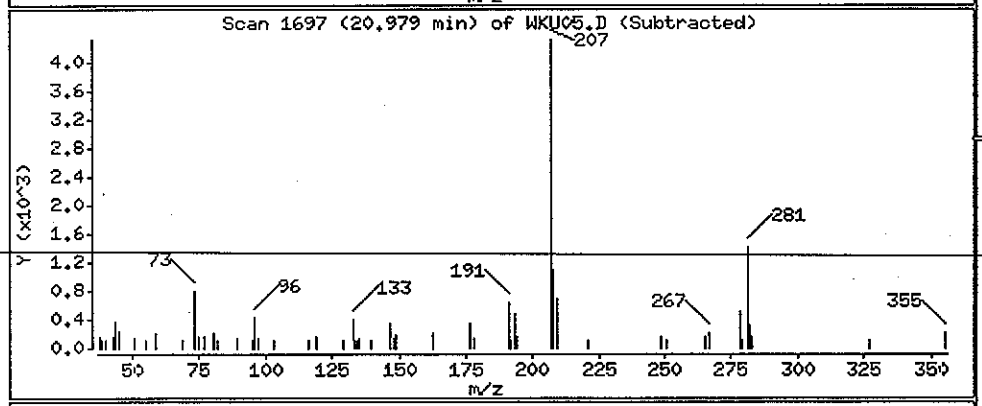
Sample Info: MB,QC274070

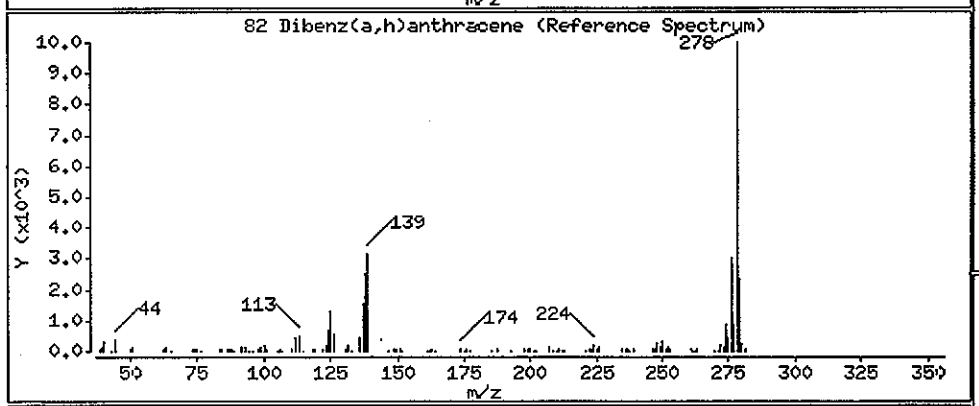
Volume Injected (uL): 1.0 | Operator: BVD

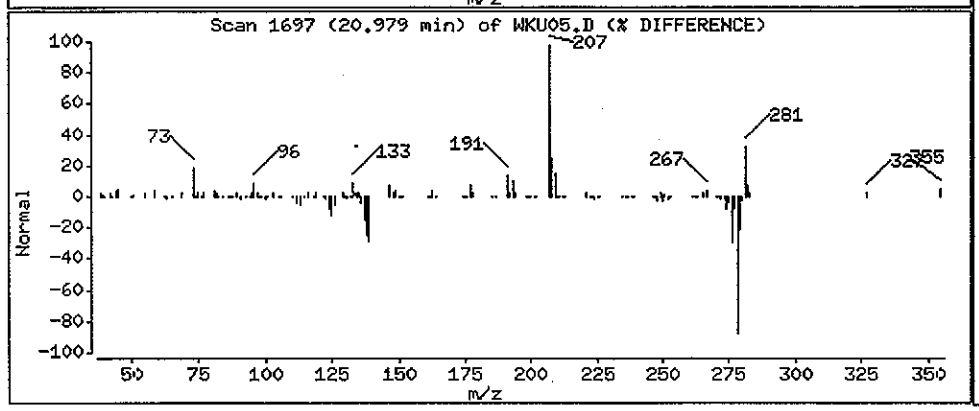
Column phase: Xti 5 x .5 u | Column diameter: 0.25

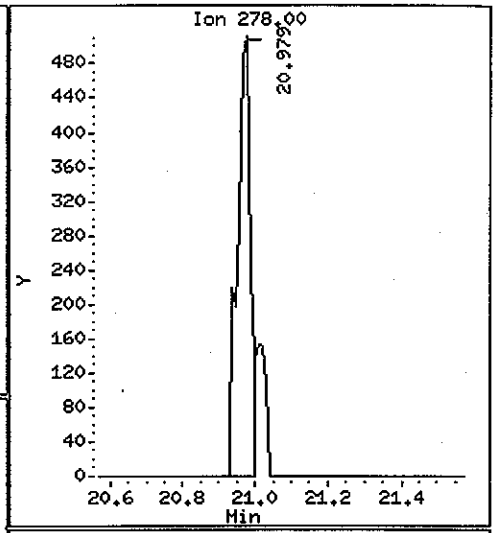
82 Dibenz(a,h)anthracene | Concentration: 0.0805 ug/L

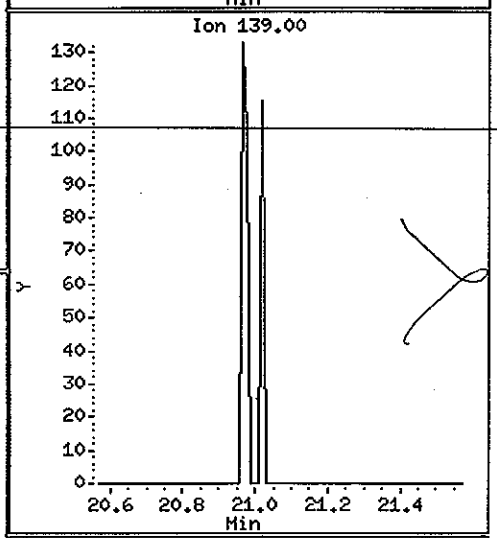


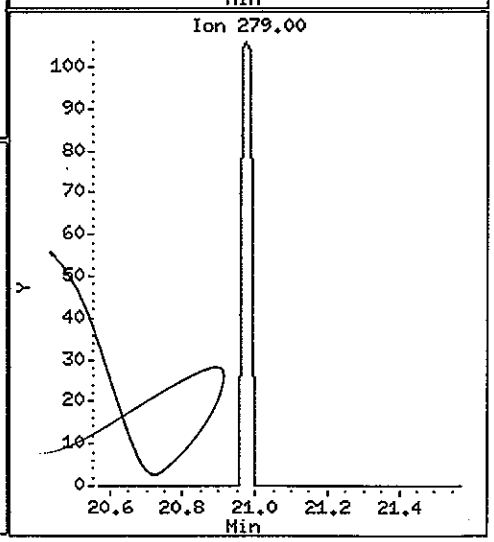












Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU05.D

Date : 30-NOV-2004 13:55

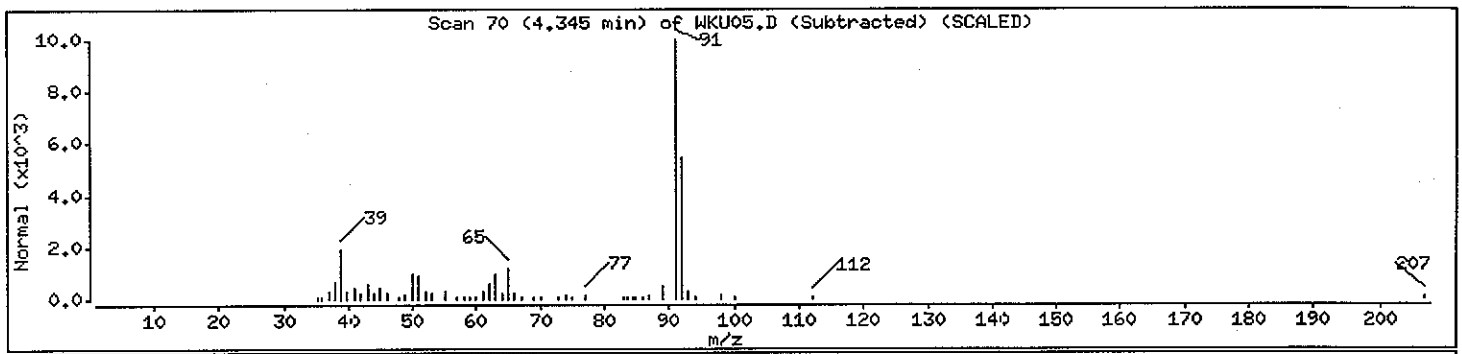
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

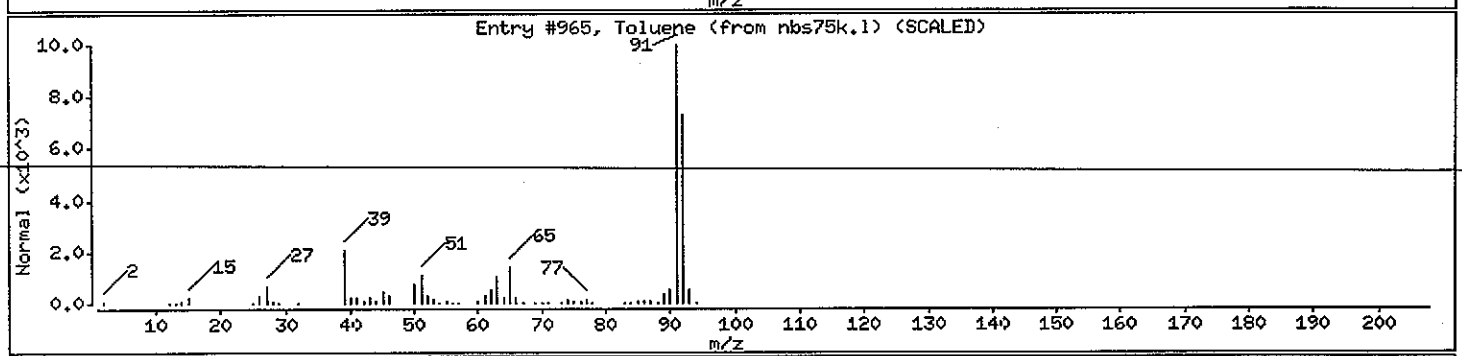
Sample Info: MB,QC274070

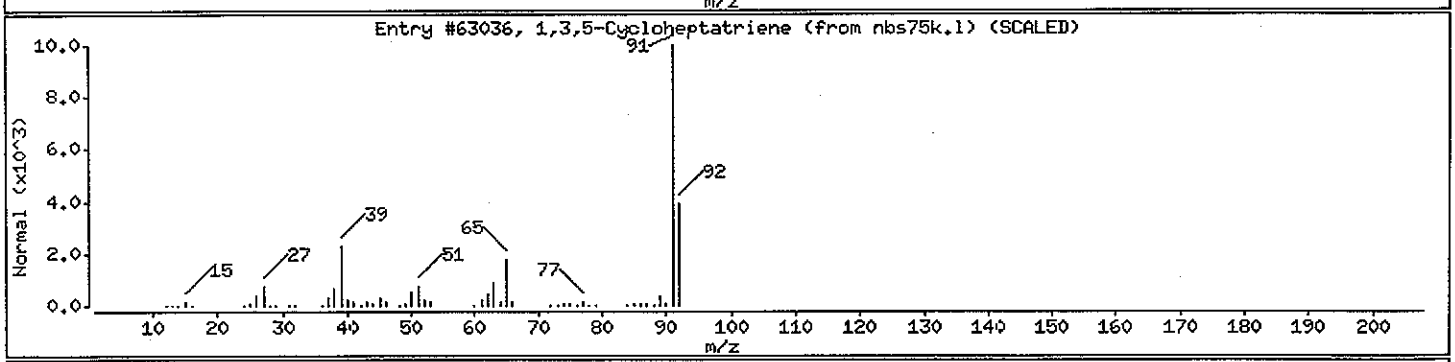
Volume Injected (uL): 1.0 | Operator: BVD

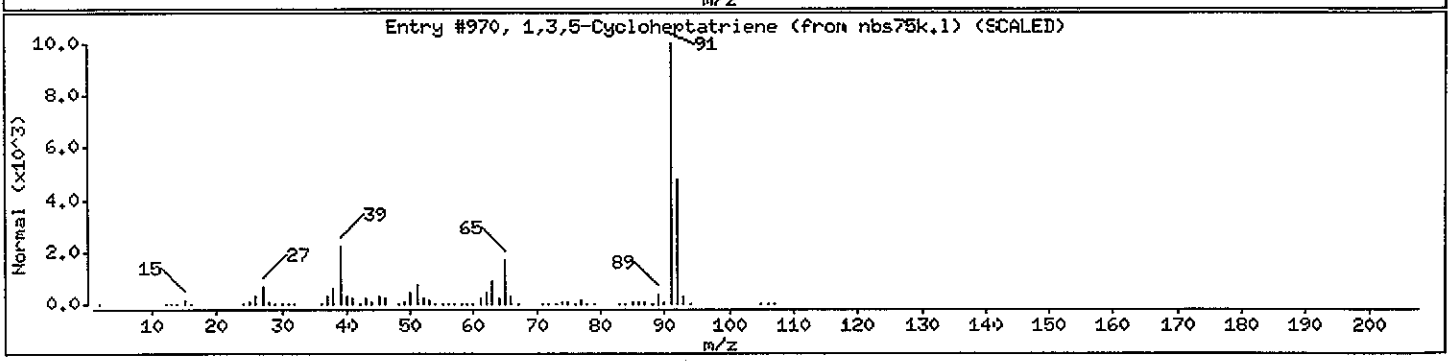
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Toluene	108-88-3	nbs75k.l	965	87	C7H8	92
1,3,5-Cycloheptatriene	544-25-2	nbs75k.l	63036	87	C7H8	92
1,3,5-Cycloheptatriene	544-25-2	nbs75k.l	970	81	C7H8	92









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Date : 30-NOV-2004 13:55

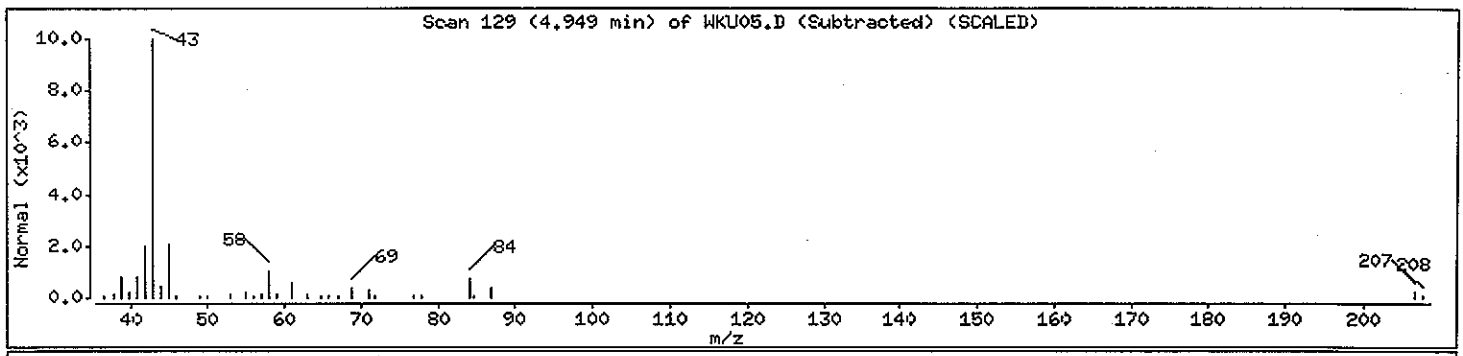
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

Sample Info: MB,QC274070

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



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Date : 30-NOV-2004 13:55

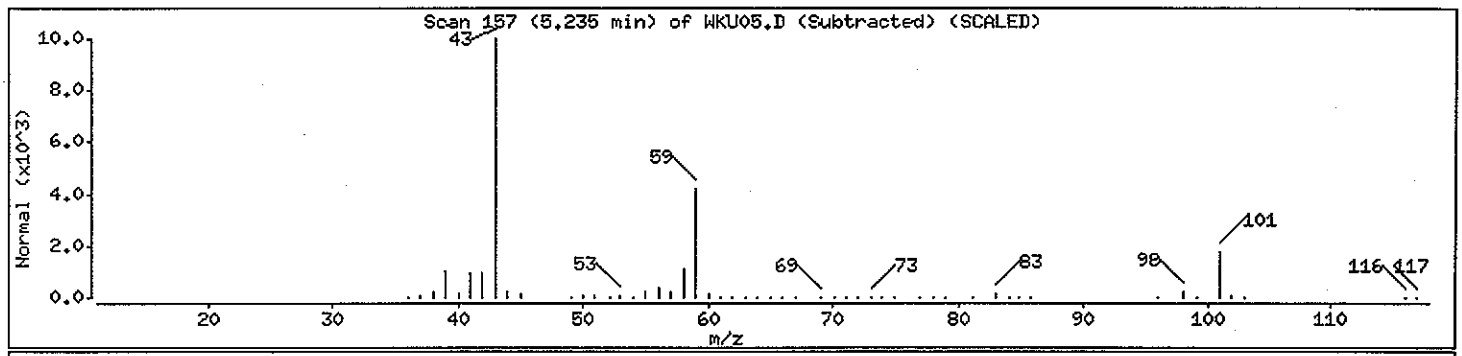
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

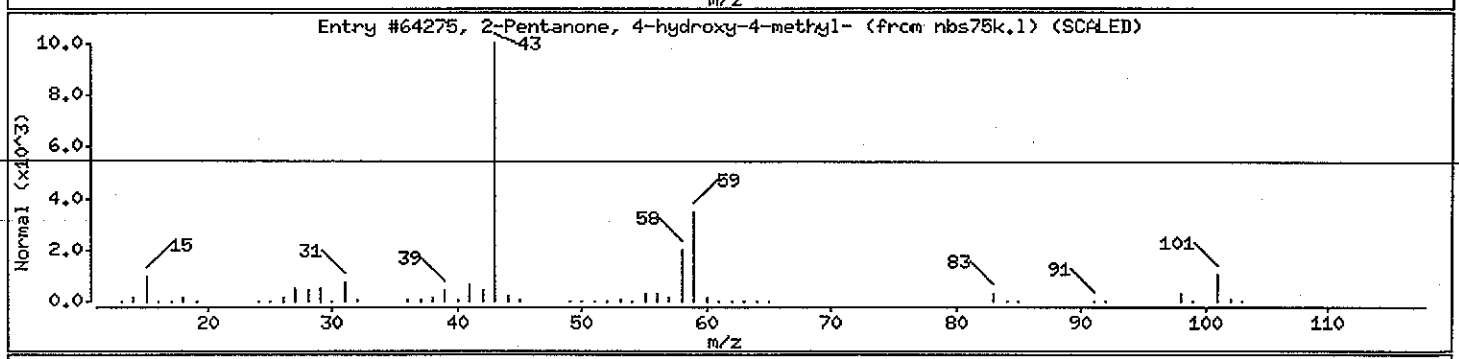
Sample Info: MB,QC274070

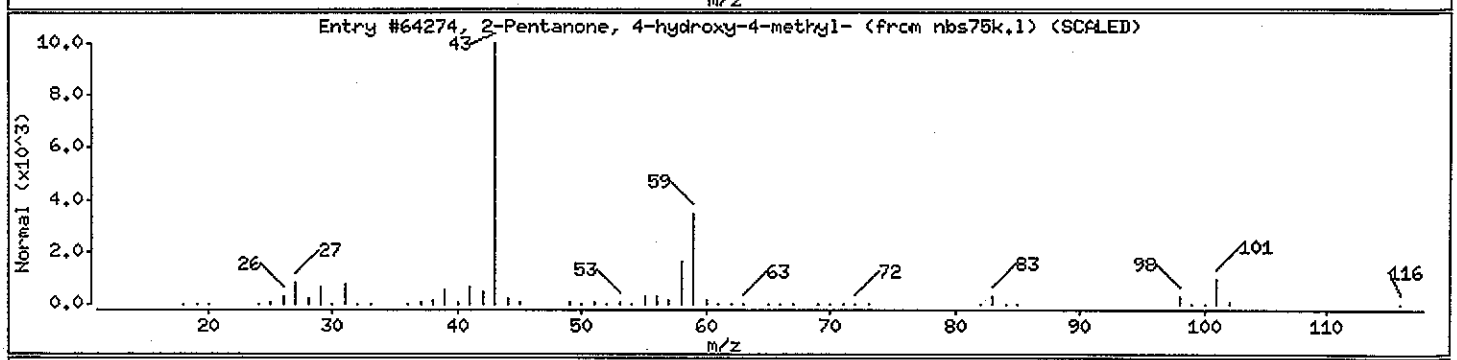
Volume Injected (uL): 1.0 | Operator: BVD

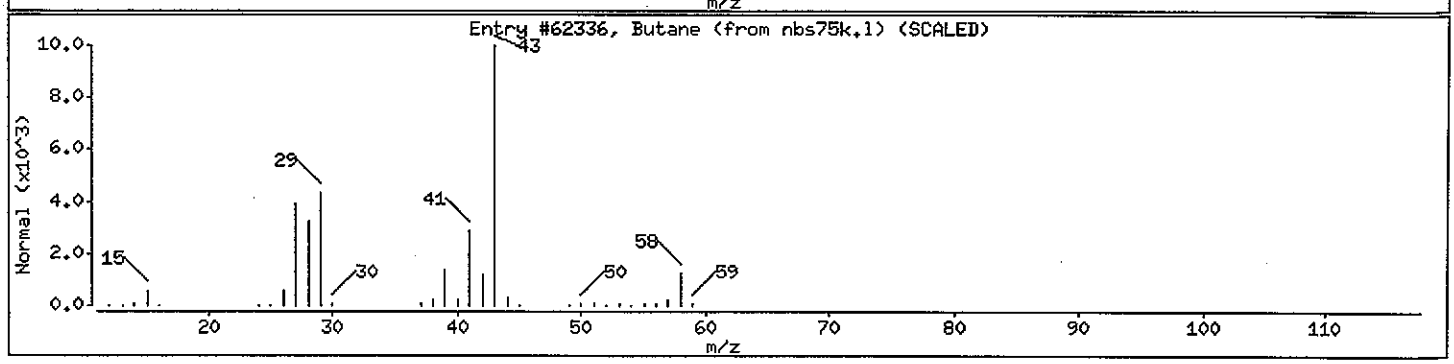
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64275	45	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	nbs75k.l	64274	38	C6H12O2	116
Butane	106-97-8	nbs75k.l	62336	22	C4H10	58









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Date : 30-NOV-2004 13:55

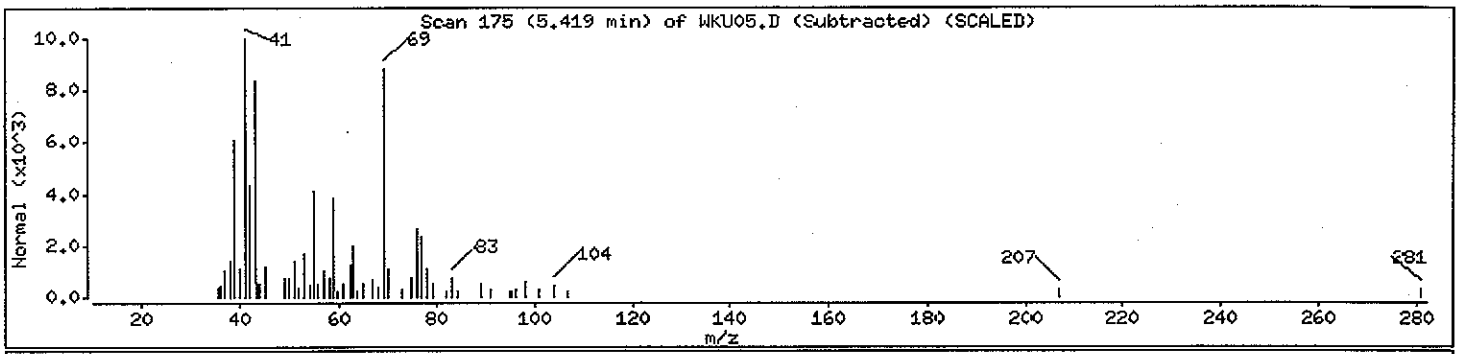
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

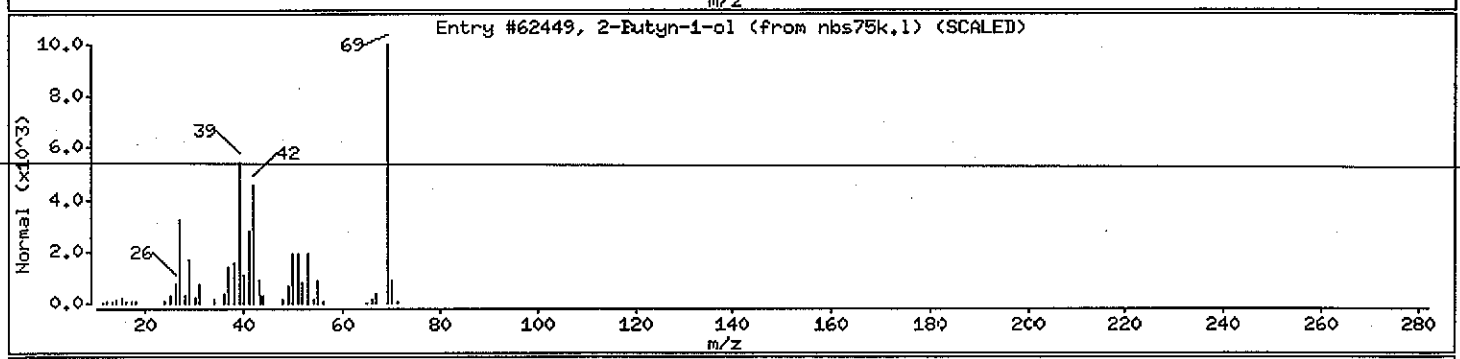
Sample Info: MB,QC274070

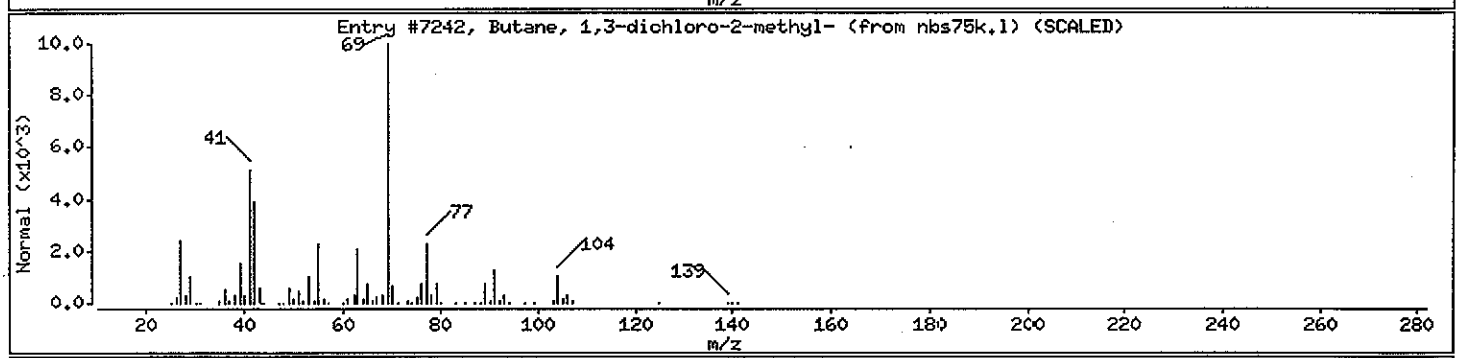
Volume Injected (uL): 1.0 | Operator: BVD

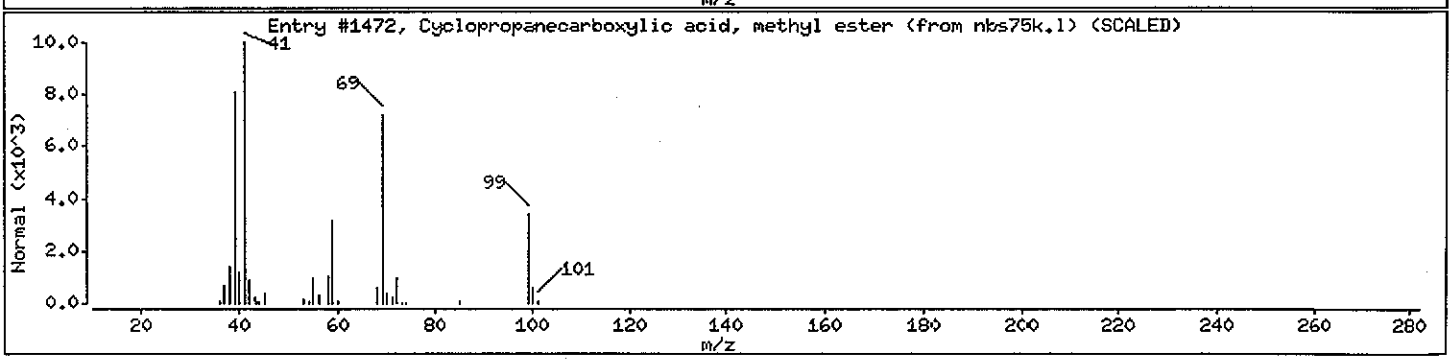
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butyn-1-ol	764-01-2	nbs75k.l	62449	46	C4H6O	70
Butane, 1,3-dichloro-2-methyl-	23010-07-3	nbs75k.l	7242	38	C5H10Cl2	140
Cyclopropanecarboxylic acid, methyl este	2868-37-3	nbs75k.l	1472	32	C5H8O2	100









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Date : 30-NOV-2004 13:55

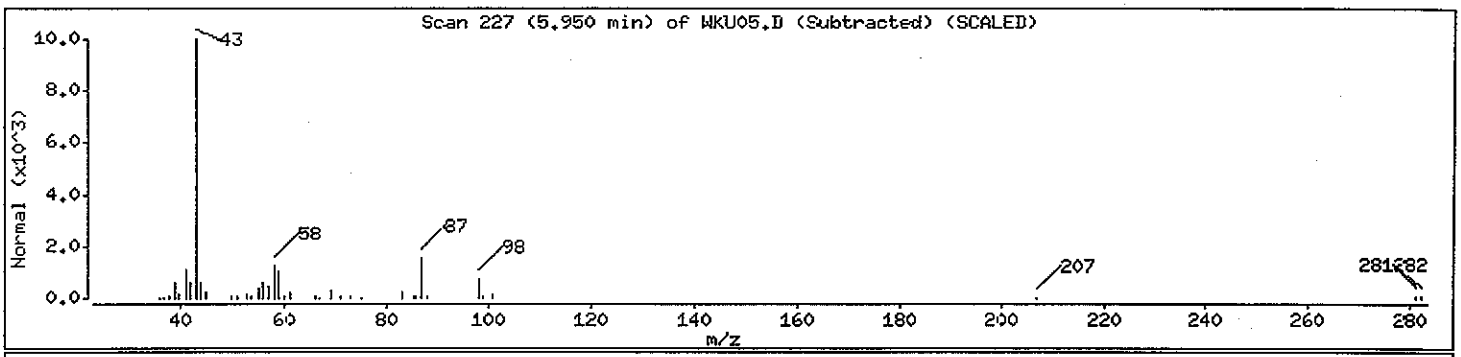
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

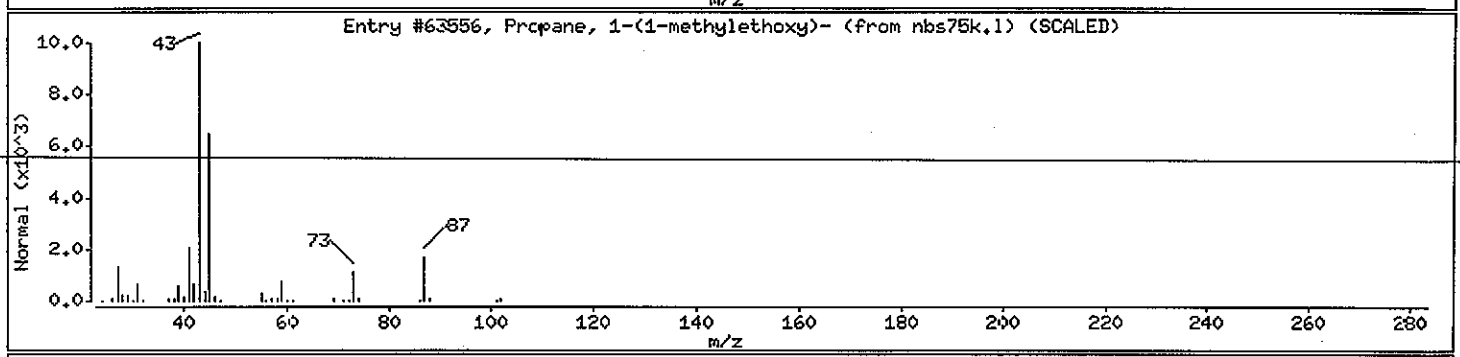
Sample Info: MB,QC274070

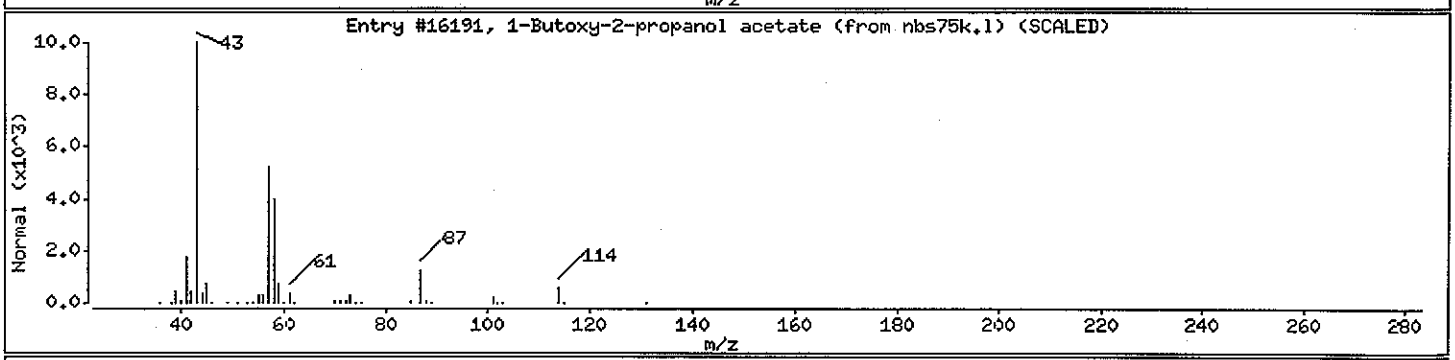
Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1-(1-methylethoxy)-	627-08-7	nbs75k.l	63556	25	C6H14O	102
1-Butoxy-2-propanol acetate	0-00-0	nbs75k.l	16191	25	C9H18O3	174







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Date : 30-NOV-2004 13:55

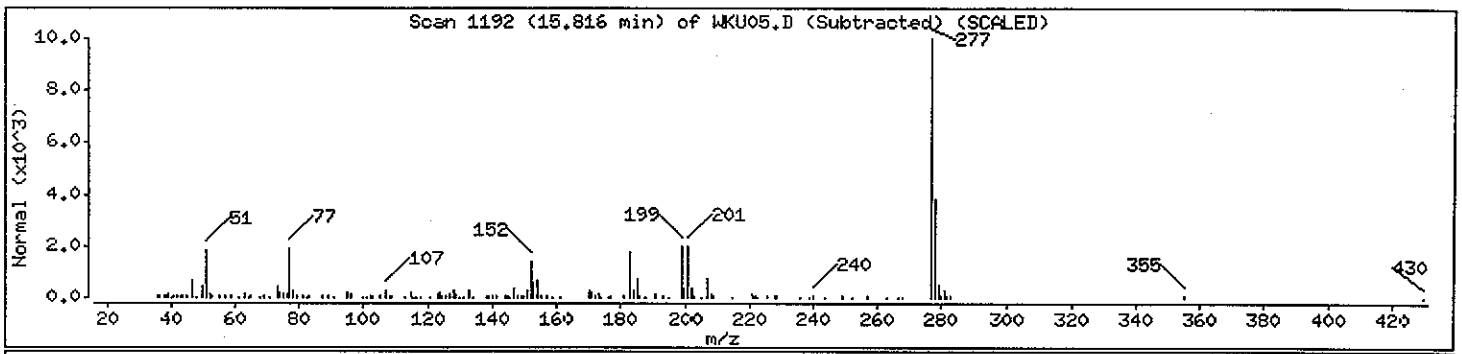
Client ID: CURTIS&TOMPKINS | Instrument: MSBNA04.i

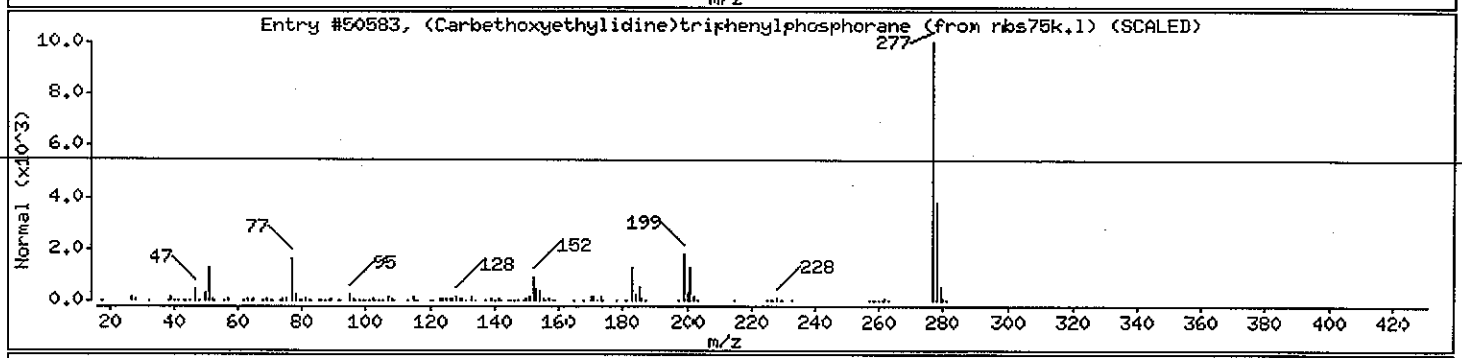
Sample Info: MB,QC274070

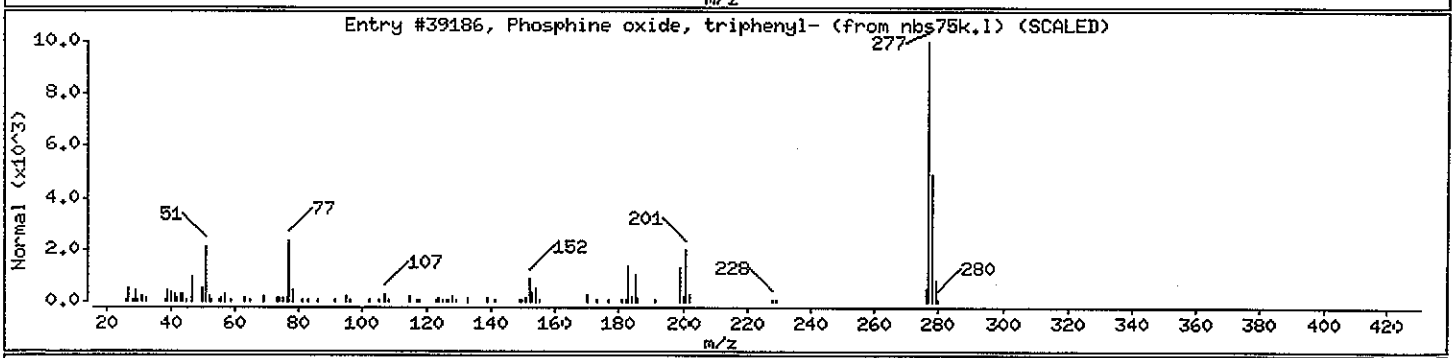
Volume Injected (uL): 1.0 | Operator: BVD

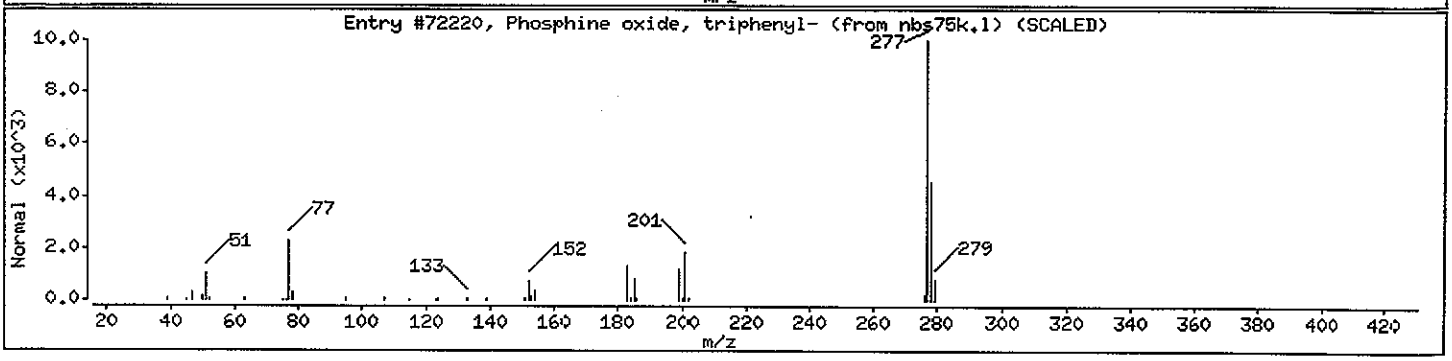
Column phase: Xti 5 x .5 u | Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
(Carbethoxyethylidine)triphenylphosphora	5717-37-3	nbs75k.l	50583	90	C23H2302P	362
Phosphine oxide, triphenyl-	791-28-6	nbs75k.l	39186	90	C18H15OP	278
Phosphine oxide, triphenyl-	791-28-6	nbs75k.l	72220	87	C18H15OP	278









SPIKE USER REPORT FOR BATCH 96932
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04
Seqnum : 534483105006
Filename : wku06
IDF : 1.0
Run type : LCS
Samplenum: QC274071
Matrix : Soil
Batchnum : 96932
Inj : 30-NOV-2004 14:30

LCS: 30.25 g --> 1.0 ml = 0.03306 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3306	2501	76	40-119	ug/Kg	
2-Chlorophenol	3306	2847	86	43-119	ug/Kg	
1,4-Dichlorobenzene	1653	1436	87	47-111	ug/Kg	
N-Nitroso-di-n-propylamine	1653	1297	78	41-117	ug/Kg	m
1,2,4-Trichlorobenzene	1653	1443	87	45-107	ug/Kg	
4-Chloro-3-methylphenol	3306	2897	88	43-120	ug/Kg	
Acenaphthene	1653	1512	91	42-111	ug/Kg	
4-Nitrophenol	3306	2638	80	45-124	ug/Kg	
2,4-Dinitrotoluene	1653	1446	87	43-114	ug/Kg	
Pentachlorophenol	3306	2326	70	39-119	ug/Kg	
Pyrene	1653	1501	91	40-120	ug/Kg	
Naphthalene	1653	1486	90	45-120	ug/Kg	
Acenaphthylene	1653	1495	90	43-120	ug/Kg	
Fluorene	1653	1530	93	44-120	ug/Kg	
Phenanthrene	1653	1575	95	43-120	ug/Kg	
Anthracene	1653	1512	91	41-120	ug/Kg	
Fluoranthene	1653	1541	93	43-120	ug/Kg	
Benzo(a)anthracene	1653	1415	86	43-120	ug/Kg	
Chrysene	1653	1395	84	43-120	ug/Kg	
Benzo(b)fluoranthene	1653	1098	66	34-120	ug/Kg	m
Benzo(k)fluoranthene	1653	1568	95	39-120	ug/Kg	
Benzo(a)pyrene	1653	1413	85	41-120	ug/Kg	
Indeno(1,2,3-cd)pyrene	1653	1595	96	27-125	ug/Kg	
Dibenz(a,h)anthracene	1653	1635	99	29-132	ug/Kg	
Benzo(g,h,i)perylene	1653	1528	92	20-134	ug/Kg	
2-Fluorophenol	3306	3061	93	33-120	ug/Kg	
Phenol-d5	3306	2795	85	31-113	ug/Kg	
2,4,6-Tribromophenol	3306	2903	88	32-120	ug/Kg	
Nitrobenzene-d5	1653	1427	86	43-120	ug/Kg	
2-Fluorobiphenyl	1653	1599	97	48-115	ug/Kg	
Terphenyl-d14	1653	1404	85	37-120	ug/Kg	

12/1/04

m=manual integration

SPIKE USER REPORT FOR BATCH 96932
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04
Seqnum : 534483105006
Filename : wku06
IDF : 1.0
Run type : LCS
Samplenum: QC274071
Matrix : Soil
Batchnum : 96932
Inj : 30-NOV-2004 14:30

ISTD (CCV=wku02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	307244	213883	-30.39	6.92	6.91	-0.01
Naphthalene-d8	1026952	715785	-30.30	8.41	8.42	0.01
Acenaphthene-d10	676275	463154	-31.51	10.55	10.54	-0.01
Phenanthrene-d10	1238851	822772	-33.59	12.36	12.35	-0.01
Chrysene-d12	1090499	741721	-31.98	15.70	15.68	-0.02
Perylene-d12	970586	656271	-32.38	18.33	18.31	-0.02

12/1/04

m=manual integration

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04
Seqnum : 534483105006
Filename : wku06
IDF : 1.0
Run type : LCS
Samplenum: QC274071
Matrix : Soil
Batchnum : 96932
Inj : 30-NOV-2004 14:30

LCS: 30.25 g --> 1.0 ml = 0.03306 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Phenol	3306	2501	76	37-120	ug/Kg	
2-Chlorophenol	3306	2847	86	43-120	ug/Kg	
1,4-Dichlorobenzene	1653	1436	87	47-120	ug/Kg	
N-Nitroso-di-n-propylamine	1653	1297	78	41-120	ug/Kg	m
1,2,4-Trichlorobenzene	1653	1443	87	45-120	ug/Kg	
4-Chloro-3-methylphenol	3306	2897	88	43-120	ug/Kg	
Acenaphthene	1653	1512	91	42-120	ug/Kg	
4-Nitrophenol	3306	2638	80	28-124	ug/Kg	
2,4-Dinitrotoluene	1653	1446	87	39-120	ug/Kg	
Pentachlorophenol	3306	2326	70	29-120	ug/Kg	
Pyrene	1653	1501	91	40-120	ug/Kg	
bis(2-Chloroethyl)ether	1653	1295	78	37-120	ug/Kg	
1,3-Dichlorobenzene	1653	1385	84	45-120	ug/Kg	
Benzyl alcohol	1653	1356	82	44-120	ug/Kg	
1,2-Dichlorobenzene	1653	1375	83	47-120	ug/Kg	
2-Methylphenol	3306	2891	87	45-122	ug/Kg	
bis(2-Chloroisopropyl) ether	1653	1284	78	29-128	ug/Kg	
4-Methylphenol	3306	2775	84	42-120	ug/Kg	
Hexachloroethane	1653	1426	86	45-120	ug/Kg	
Nitrobenzene	1653	1432	87	46-120	ug/Kg	
Isophorone	1653	1311	79	39-120	ug/Kg	m
2-Nitrophenol	3306	2737	83	45-120	ug/Kg	
2,4-Dimethylphenol	3306	3224	98	42-126	ug/Kg	
Benzoic acid	4959	3181	64	2-120	ug/Kg	!c+
bis(2-Chloroethoxy)methane	1653	1433	87	44-120	ug/Kg	
2,4-Dichlorophenol	3306	2897	88	41-120	ug/Kg	
Naphthalene	1653	1486	90	45-120	ug/Kg	
4-Chloroaniline	1653	625.0	38	16-120	ug/Kg	
Hexachlorobutadiene	1653	1466	89	42-120	ug/Kg	
2-Methylnaphthalene	1653	1474	89	46-120	ug/Kg	
Hexachlorocyclopentadiene	3306	2327	70	22-121	ug/Kg	
2,4,6-Trichlorophenol	3306	3102	94	44-120	ug/Kg	
2,4,5-Trichlorophenol	3306	3271	99	45-120	ug/Kg	
2-Chloronaphthalene	1653	1595	97	46-120	ug/Kg	
2-Nitroaniline	1653	1383	84	41-120	ug/Kg	
Dimethylphthalate	1653	1502	91	46-120	ug/Kg	
Acenaphthylene	1653	1495	90	43-120	ug/Kg	
2,6-Dinitrotoluene	1653	1511	91	42-120	ug/Kg	
3-Nitroaniline	1653	793.2	48	16-120	ug/Kg	!v+

!=warning +=high bias c=CCV m=manual integration v=ICV y=RL raised

12/1/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04
Seqnum : 534483105006
Filename : wku06
IDF : 1.0
Run type : LCS
Samplenum: QC274071
Matrix : Soil
Batchnum : 96932
Inj : 30-NOV-2004 14:30

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
2,4-Dinitrophenol	3306	1299	39	3-120	ug/Kg	
Dibenzofuran	1653	1572	95	45-120	ug/Kg	y
Diethylphthalate	1653	1541	93	44-120	ug/Kg	
Fluorene	1653	1530	93	44-120	ug/Kg	
4-Chlorophenyl-phenylether	1653	1614	98	44-120	ug/Kg	
4-Nitroaniline	1653	1406	85	37-120	ug/Kg	
4,6-Dinitro-2-methylphenol	3306	2299	70	19-120	ug/Kg	
N-Nitrosodiphenylamine	1653	1526	92	40-120	ug/Kg	
Azobenzene	1653	1393	84	42-120	ug/Kg	
4-Bromophenyl-phenylether	1653	1540	93	43-120	ug/Kg	
Hexachlorobenzene	1653	1493	90	39-120	ug/Kg	
Phenanthrene	1653	1575	95	43-120	ug/Kg	
Anthracene	1653	1512	91	41-120	ug/Kg	
Di-n-butylphthalate	1653	1613	98	43-121	ug/Kg	
Fluoranthene	1653	1541	93	43-120	ug/Kg	
Butylbenzylphthalate	1653	1514	92	40-120	ug/Kg	
3,3'-Dichlorobenzidine	1653	863.7	52	11-120	ug/Kg	
Benzo(a)anthracene	1653	1415	86	43-120	ug/Kg	
Chrysene	1653	1395	84	43-120	ug/Kg	
bis(2-Ethylhexyl)phthalate	1653	1660	100	36-137	ug/Kg	
Di-n-octylphthalate	1653	1354	82	34-122	ug/Kg	
Benzo(b)fluoranthene	1653	1098	66	34-120	ug/Kg	m
Benzo(k)fluoranthene	1653	1568	95	39-120	ug/Kg	
Benzo(a)pyrene	1653	1413	85	41-120	ug/Kg	
Indeno(1,2,3-cd)pyrene	1653	1595	96	27-125	ug/Kg	
Dibenz(a,h)anthracene	1653	1635	99	29-132	ug/Kg	
Benzo(g,h,i)perylene	1653	1528	92	20-134	ug/Kg	
2-Fluorophenol	3306	3061	93	33-120	ug/Kg	
Phenol-d5	3306	2795	85	31-120	ug/Kg	
2,4,6-Tribromophenol	3306	2903	88	32-120	ug/Kg	
Nitrobenzene-d5	1653	1427	86	43-120	ug/Kg	
2-Fluorobiphenyl	1653	1599	97	48-120	ug/Kg	
Terphenyl-d14	1653	1404	85	37-120	ug/Kg	

!=warning +=high bias c=CCV m=manual integration v=ICV y=RL raised

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04
Seqnum : 534483105006
Filename : wku06
IDF : 1.0
Run type : LCS
Samplenum: QC274071
Matrix : Soil
Batchnum : 96932
Inj : 30-NOV-2004 14:30

ISTD (CCV=wku02)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	307244	213883	-30.39	6.92	6.91	-0.01
Naphthalene-d8	1026952	715785	-30.30	8.41	8.42	0.01
Acenaphthene-d10	676275	463154	-31.51	10.55	10.54	-0.01
Phenanthrene-d10	1238851	822772	-33.59	12.36	12.35	-0.01
Chrysene-d12	1090499	741721	-31.98	15.70	15.68	-0.02
Perylene-d12	970586	656271	-32.38	18.33	18.31	-0.02

!=warning +=high bias c=CCV m=manual integration v=ICV y=RL raised

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU06.D
Report Date: 01-Dec-2004 10:31

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 14:30 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : LCS,QC274071
Misc Info : 96932,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 18:18 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	74	4.131	4.156	(0.598)	118783	42.9625	42.9624
	2 Pyridine	79	4.141	4.176	(0.599)	173063	39.0596	39.0595 (M)
$	3 2-Fluorophenol	112	5.562	5.505	(0.805)	508719	92.6015	92.6014
$	4 Phenol-d5	99	6.544	6.517	(0.947)	549091	84.5363	84.5363
	5 Phenol	94	6.564	6.538	(0.950)	524609	75.6456	75.6455
	6 Aniline	66	6.564	6.558	(0.950)	251672	84.1375	84.1374 (Q)
	7 bis(2-Chloroethyl)ether	63	6.615	6.619	(0.957)	176582	39.1664	39.1664 (Q)
	8 2-Chlorophenol	128	6.707	6.691	(0.970)	582489	86.1150	86.1150
	9 1,3-Dichlorobenzene	146	6.850	6.855	(0.991)	316855	41.9075	41.9075
*	10 1,4-Dichlorobenzene-d4	152	6.912	6.916	(1.000)	213883	40.0000	
	11 1,4-Dichlorobenzene	146	6.932	6.936	(1.003)	323764	43.4520	43.4519
	12 Benzyl alcohol	108	7.096	7.090	(1.027)	167184	41.0241	41.0241
	13 1,2-Dichlorobenzene	146	7.116	7.120	(1.030)	292846	41.5860	41.5860
	14 2-Methylphenol	107	7.229	7.212	(1.046)	368680	87.4578	87.4577
	15 bis(2-Chloroisopropyl) ether	45	7.229	7.233	(1.046)	401923	38.8513	38.8512
	16 4-Methylphenol	107	7.413	7.407	(1.072)	572651	83.9586	83.9586
	17 N-Nitroso-di-n-propylamine	70	7.433	7.417	(1.075)	128981	39.2390	39.2390 (M)
	18 Hexachloroethane	117	7.494	7.499	(1.084)	135116	43.1263	43.1262
$	19 Nitrobenzene-d5	82	7.576	7.580	(0.900)	244266	43.1627	43.1626
	20 Nitrobenzene	77	7.597	7.601	(0.903)	224418	43.3210	43.3210

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU06.D
Report Date: 01-Dec-2004 10:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	21 Isophorone	82	7.934	7.887	(0.943)	438445	39.6716	39.6715(M)
	22 2-Nitrophenol	139	7.965	7.969	(0.947)	355546	82.8043	82.8043
	23 2,4-Dimethylphenol	122	8.026	8.020	(0.954)	429256	97.5298	97.5298(Q)
	24 bis(2-Chloroethoxy)methane	93	8.118	8.122	(0.965)	291305	43.3538	43.3537
	25 2,4-Dichlorophenol	162	8.261	8.265	(0.982)	511084	87.6314	87.6314
	26 Benzoic acid	122	8.282	8.255	(0.984)	300205	96.2332	96.2331(Q)
	27 1,2,4-Trichlorobenzene	180	8.343	8.347	(0.991)	304706	43.6447	43.6446
*	28 Naphthalene-d8	136	8.414	8.419	(1.000)	715785	40.0000	
	29 Naphthalene	128	8.435	8.439	(1.002)	771251	44.9518	44.9518
	30 4-Chloroaniline	127	8.517	8.511	(1.012)	133824	18.9066	18.9065
	31 Hexachlorobutadiene	225	8.578	8.582	(1.019)	201397	44.3446	44.3446
	32 4-Chloro-3-methylphenol	107	9.099	9.093	(1.081)	457239	87.6269	87.6269
	33 2-Methylnaphthalene	142	9.273	9.267	(1.102)	562173	44.5833	44.5833
	34 Hexachlorocyclopentadiene	237	9.457	9.461	(0.897)	219366	70.3999	70.3998
	35 2,4,6-Trichlorophenol	196	9.631	9.625	(0.914)	453555	93.8497	93.8496
	36 2,4,5-Trichlorophenol	196	9.672	9.676	(0.918)	473360	98.9511	98.9510
$	37 2-Fluorobiphenyl	172	9.713	9.717	(0.921)	655114	48.3812	48.3812
	38 2-Chloronaphthalene	162	9.866	9.870	(0.936)	536230	48.2544	48.2544
	39 2-Nitroaniline	65	10.009	10.014	(0.950)	132021	41.8429	41.8429
	40 Dimethylphthalate	163	10.214	10.218	(0.969)	760361	45.4317	45.4316
	41 2,6-Dinitrotoluene	165	10.296	10.310	(0.977)	175951	45.7026	45.7025
	42 Acenaphthylene	152	10.367	10.371	(0.984)	812019	45.2173	45.2172
	43 3-Nitroaniline	138	10.510	10.525	(0.997)	76729	23.9942	23.9942(a)
*	44 Acenaphthene-d10	164	10.541	10.545	(1.000)	463154	40.0000	
	45 Acenaphthene	154	10.582	10.586	(1.004)	480857	45.7390	45.7389
	46 2,4-Dinitrophenol	184	10.643	10.647	(1.010)	81002	39.3084	39.3084
	47 4-Nitrophenol	109	10.735	10.739	(1.018)	159363	79.8071	79.8071(Q)
	48 Dibenzofuran	168	10.786	10.791	(1.023)	777315	47.5411	47.5410
	49 2,4-Dinitrotoluene	165	10.796	10.801	(1.024)	221420	43.7363	43.7362
	50 Diethylphthalate	149	11.072	11.077	(1.050)	764201	46.6160	46.6159
	51 4-Chlorophenyl-phenylether	204	11.195	11.199	(1.062)	364086	48.8257	48.8257
	52 Fluorene	166	11.205	11.210	(1.063)	626318	46.2763	46.2762
	53 4-Nitroaniline	138	11.277	11.291	(1.070)	127397	42.5451	42.5451
	54 4,6-Dinitro-2-methylphenol	198	11.297	11.312	(0.915)	220448	69.5344	69.5343(Q)
	55 N-Nitrosodiphenylamine	169	11.349	11.363	(0.919)	416386	46.1649	46.1648
	56 Azobenzene	77	11.389	11.394	(0.922)	524772	42.1251	42.1250
$	57 2,4,6-Tribromophenol	330	11.512	11.516	(1.092)	281048	87.8204	87.8203
	58 4-Bromophenyl-phenylether	248	11.798	11.803	(0.955)	225242	46.5962	46.5961
	59 Hexachlorobenzene	284	11.890	11.905	(0.963)	261355	45.1550	45.1549
	60 Pentachlorophenol	266	12.136	12.140	(0.983)	264210	70.3737	70.3736
*	61 Phenanthrene-d10	188	12.350	12.355	(1.000)	822772	40.0000	
	62 Phenanthrene	178	12.381	12.396	(1.002)	911414	47.6337	47.6337
	63 Anthracene	178	12.442	12.457	(1.007)	867709	45.7388	45.7388
	65 Di-n-butylphthalate	149	13.035	13.050	(1.055)	1428402	48.7878	48.7878
	66 Fluoranthene	202	13.833	13.837	(1.120)	1065802	46.6278	46.6278
	67 Benzidine	184	13.986	13.990	(0.892)	82827	67.3649	67.3649
	68 Pyrene	202	14.109	14.123	(0.900)	1089071	45.3969	45.3968
$	69 Terphenyl-d14	244	14.283	14.287	(0.911)	793445	42.4710	42.4709
	70 Butylbenzylphthalate	149	14.865	14.880	(0.948)	671488	45.8091	45.8090
	71 3,3'-Dichlorobenzidine	252	15.622	15.636	(0.996)	170396	26.1260	26.1260
	72 bis(2-Ethylhexyl)phthalate	149	15.642	15.657	(0.997)	973801	50.2126	50.2125
	73 Benzo(a)anthracene	228	15.663	15.667	(0.999)	1000324	42.8094	42.8094
*	74 Chrysene-d12	240	15.683	15.698	(1.000)	741721	40.0000	
	75 Chrysene	228	15.724	15.739	(1.003)	867083	42.1977	42.1977

12/1/04 for LCTO

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU06.D
Report Date: 01-Dec-2004 10:31

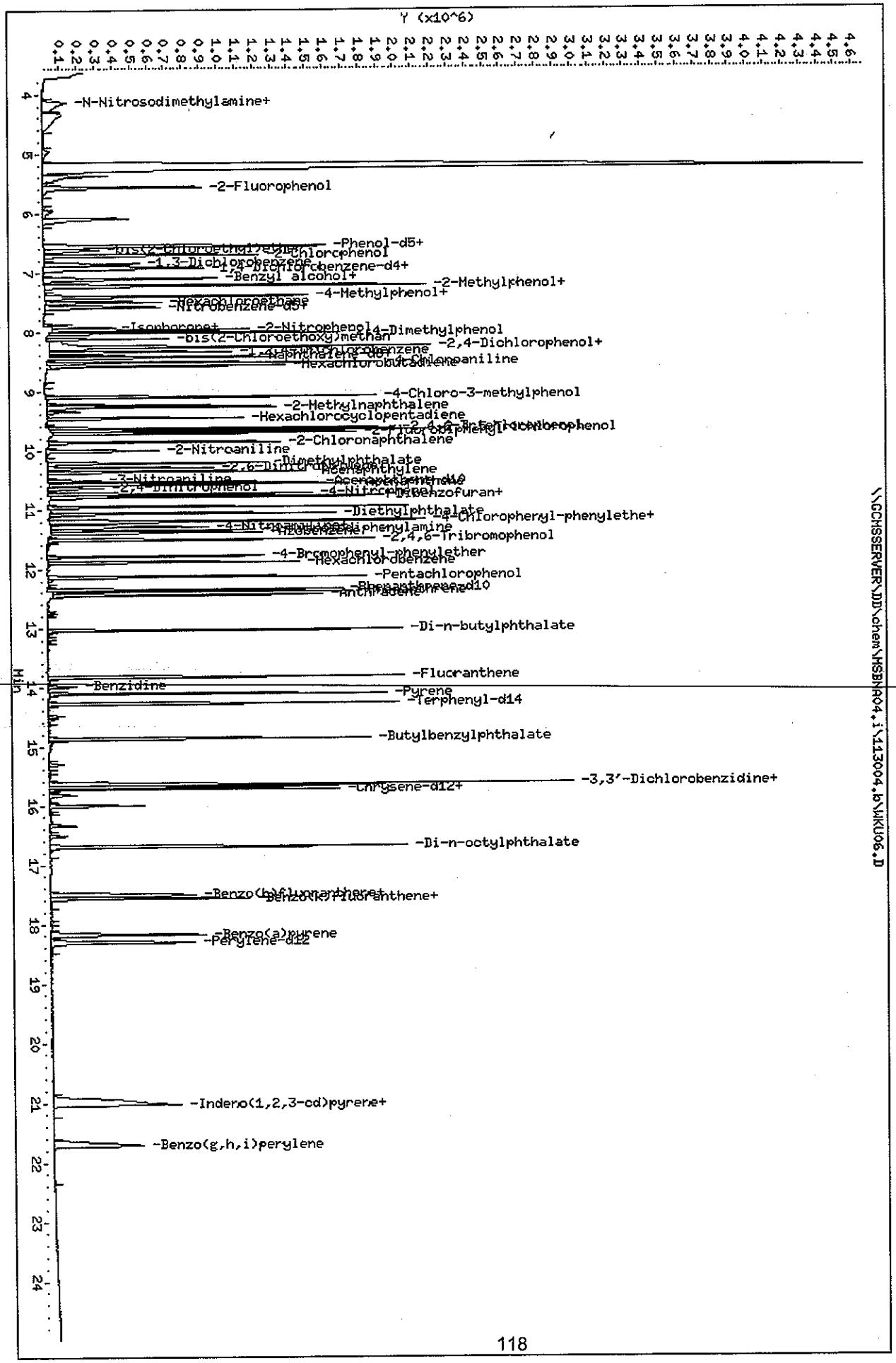
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
76 Di-n-octylphthalate	149	16.695	16.700	(0.912)	1658686	40.9530	40.9530
77 Benzo(b)fluoranthene	252	17.513	17.538	(0.956)	964465	33.2069	33.2069(M)
78 Benzo(k)fluoranthene	252	17.564	17.589	(0.959)	951971	47.4229	47.4229(A)
79 Benzo(a)pyrene	252	18.188	18.202	(0.993)	835881	42.7413	42.7413
* 80 Perylene-d12	264	18.311	18.325	(1.000)	656271	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.969	21.024	(1.145)	955131	48.2464	48.2463
82 Dibenz(a,h)anthracene	278	21.030	21.065	(1.149)	789255	49.4610	49.4609
83 Benzo(g,h,i)perylene	276	21.705	21.740	(1.185)	752268	46.2093	46.2093

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU06.D
Date : 30-NOV-2004 14:30
Client ID: CURTIS&TOMPKINS
Sample Info: LCS,QC274071
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



SPIKE USER REPORT FOR BATCH 96932
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04	Instid : MSBNA04	Instid : MSBNA04
Seqnum : 534483105012	Seqnum : 534483105013	Seqnum : 534483105014
Filename : wku12	Filename : wku13	Filename : wku14
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-003	Samplenum: QC274072	Samplenum: QC274073
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96932	Batchnum : 96932	Batchnum : 96932
Inj : 30-NOV-2004 17:51	Inj : 30-NOV-2004 18:27	Inj : 30-NOV-2004 19:04

MSS: 29.80 g --> 1.0 ml = 0.03356 ml/g PDF
MS: 30.16 g --> 1.0 ml = 0.03316 ml/g PDF
MSD: 30.09 g --> 1.0 ml = 0.03323 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Phenol	ND	3323	2621	79	2447	74	37-100	ug/Kg	7	34	
2-Chlorophenol	ND	3323	2966	89	2735	82	41-102	ug/Kg	8	34	
1,4-Dichlorobenzene	ND	1662	1478	89	1256	76	49-104	ug/Kg	16	27	
N-Nitroso-di-n-propylamine	ND	1662	1363	82	1273	77	45-120	ug/Kg	7	33	m
1,2,4-Trichlorobenzene	ND	1662	1521	92	1343	81	46-107	ug/Kg	13	23	
4-Chloro-3-methylphenol	ND	3323	2898	87	2839	85	39-103	ug/Kg	2	32	
Acenaphthene	ND	1662	1610	97	1514	91	45-120	ug/Kg	6	19	
4-Nitrophenol	ND	3323	2341	71	2388	72	28-114	ug/Kg	2	37	
2,4-Dinitrotoluene	ND	1662	1522	92	1469	88	41-100	ug/Kg	4	35	
Pentachlorophenol	ND	3323	2440	74	2403	72	17-109	ug/Kg	2	48	
Pyrene	ND	1662	1580	95	1521	92	35-132	ug/Kg	4	36	
Naphthalene	ND	1662	1572	95	1405	85	45-120	ug/Kg	11	31	
Acenaphthylene	ND	1662	1610	97	1514	91	44-120	ug/Kg	6	32	
Fluorene	ND	1662	1619	98	1522	92	41-120	ug/Kg	6	32	
Phenanthrene	ND	1662	1641	99	1583	95	44-120	ug/Kg	4	34	
Anthracene	ND	1662	1617	98	1510	91	41-120	ug/Kg	7	34	
Fluoranthene	ND	1662	1585	96	1515	91	35-120	ug/Kg	5	33	
Benzo(a)anthracene	ND	1662	1479	89	1421	86	45-120	ug/Kg	4	33	
Chrysene	ND	1662	1507	91	1417	85	43-120	ug/Kg	6	34	
Benzo(b)fluoranthene	ND	1662	1231	74	1195	72	33-120	ug/Kg	3	35	
Benzo(k)fluoranthene	ND	1662	1610	97	1636	98	33-122	ug/Kg	1	37	
Benzo(a)pyrene	ND	1662	1480	89	1456	88	41-120	ug/Kg	2	36	
Indeno(1,2,3-cd)pyrene	ND	1662	1606	97	1554	94	13-120	ug/Kg	3	40	
Dibenz(a,h)anthracene	ND	1662	1679	101	1619	97	19-120	ug/Kg	4	37	
Benzo(g,h,i)perylene	ND	1662	1502	91	1454	88	6-120	ug/Kg	3	41	
2-Fluorophenol		3323	3119	94	2812	85	33-120	ug/Kg	--		
Phenol-d5		3323	2892	87	2659	80	31-113	ug/Kg	--		
2,4,6-Tribromophenol		3323	3006	91	2849	86	32-120	ug/Kg	--		
Nitrobenzene-d5		1662	1468	89	1315	79	43-120	ug/Kg	--		
2-Fluorobiphenyl		1662	1728	104	1614	97	48-115	ug/Kg	--		
Terphenyl-d14		1662	1491	90	1421	85	37-120	ug/Kg	--		

m=manual integration

SPIKE USER REPORT FOR BATCH 96932
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04	Instid : MSBNA04	Instid : MSBNA04
Seqnum : 534483105012	Seqnum : 534483105013	Seqnum : 534483105014
Filename : wku12	Filename : wku13	Filename : wku14
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-003	Samplenum: QC274072	Samplenum: QC274073
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96932	Batchnum : 96932	Batchnum : 96932
Inj : 30-NOV-2004 17:51	Inj : 30-NOV-2004 18:27	Inj : 30-NOV-2004 19:04

ISTD (CCV=wku11)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	281299	219705	-21.90	6.92	6.92	0.00
Naphthalene-d8	970655	740339	-23.73	8.42	8.41	-0.01
Acenaphthene-d10	629730	461403	-26.73	10.55	10.54	-0.01
Phenanthrene-d10	1139563	820036	-28.04	12.36	12.36	0.00
Chrysene-d12	1002740	712040	-28.99	15.70	15.69	-0.01
Perylene-d12	878131	598468	-31.85	18.33	18.31	-0.02

ISTD (CCV=wku11)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	281299	243216	-13.54	6.92	6.92	0.00
Naphthalene-d8	970655	818359	-15.69	8.42	8.41	-0.01
Acenaphthene-d10	629730	518140	-17.72	10.55	10.54	-0.01
Phenanthrene-d10	1139563	922754	-19.03	12.36	12.36	0.00
Chrysene-d12	1002740	804228	-19.80	15.70	15.69	-0.01
Perylene-d12	878131	651792	-25.78	18.33	18.32	-0.01

m=manual integration

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8270C

Instid : MSBNA04	Instid : MSBNA04	Instid : MSBNA04
Seqnum : 534483105012	Seqnum : 534483105013	Seqnum : 534483105014
Filename : wku12	Filename : wku13	Filename : wku14
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-003	Samplenum: QC274072	Samplenum: QC274073
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96932	Batchnum : 96932	Batchnum : 96932
Inj : 30-NOV-2004 17:51	Inj : 30-NOV-2004 18:27	Inj : 30-NOV-2004 19:04

MSS: 29.80 g --> 1.0 ml = 0.03356 ml/g PDF
MS: 30.16 g --> 1.0 ml = 0.03316 ml/g PDF
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Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Phenol	ND	3323	2621	79	2447	74	37-120	ug/Kg	7	34	
2-Chlorophenol	ND	3323	2966	89	2735	82	41-120	ug/Kg	8	34	
1,4-Dichlorobenzene	ND	1662	1478	89	1256	76	49-120	ug/Kg	16	32	
N-Nitroso-di-n-propylamine	ND	1662	1363	82	1273	77	45-120	ug/Kg	7	33	m
1,2,4-Trichlorobenzene	ND	1662	1521	92	1343	81	46-120	ug/Kg	13	33	
4-Chloro-3-methylphenol	ND	3323	2898	87	2839	85	39-120	ug/Kg	2	32	
Acenaphthene	ND	1662	1610	97	1514	91	45-120	ug/Kg	6	32	
4-Nitrophenol	ND	3323	2341	71	2388	72	28-122	ug/Kg	2	37	
2,4-Dinitrotoluene	ND	1662	1522	92	1469	88	41-120	ug/Kg	4	35	
Pentachlorophenol	ND	3323	2440	74	2403	72	15-120	ug/Kg	2	48	
Pyrene	ND	1662	1580	95	1521	92	34-132	ug/Kg	4	36	
2-Fluorophenol		3323	3119	94	2812	85	33-120	ug/Kg	--		
Phenol-d5		3323	2892	87	2659	80	31-120	ug/Kg	--		
2,4,6-Tribromophenol		3323	3006	91	2849	86	32-120	ug/Kg	--		
Nitrobenzene-d5		1662	1468	89	1315	79	43-120	ug/Kg	--		
2-Fluorobiphenyl		1662	1728	104	1614	97	48-120	ug/Kg	--		
Terphenyl-d14		1662	1491	90	1421	85	37-120	ug/Kg	--		

ISTD (CCV=wku11)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	281299	219705	-21.90	6.92	6.92	0.00
Naphthalene-d8	970655	740339	-23.73	8.42	8.41	-0.01
Acenaphthene-d10	629730	461403	-26.73	10.55	10.54	-0.01
Phenanthrene-d10	1139563	820036	-28.04	12.36	12.36	0.00
Chrysene-d12	1002740	712040	-28.99	15.70	15.69	-0.01
Perylene-d12	878131	598468	-31.85	18.33	18.31	-0.02

ISTD (CCV=wku11)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	281299	243216	-13.54	6.92	6.92	0.00
Naphthalene-d8	970655	818359	-15.69	8.42	8.41	-0.01
Acenaphthene-d10	629730	518140	-17.72	10.55	10.54	-0.01
Phenanthrene-d10	1139563	922754	-19.03	12.36	12.36	0.00
Chrysene-d12	1002740	804228	-19.80	15.70	15.69	-0.01
Perylene-d12	878131	651792	-25.78	18.33	18.32	-0.01

12/1/04

m=manual integration

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU13.D
Report Date: 01-Dec-2004 10:33

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU13.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 18:27 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : MS,QC274072
Misc Info : 96932,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 18:18 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 4 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 N-Nitrosodimethylamine	74	4.126	4.156	(0.597)	121551	42.7986	42.7986(M)
$ 3 2-Fluorophenol	112	5.557	5.505	(0.803)	530895	94.0773	94.0772
$ 4 Phenol-d5	99	6.549	6.517	(0.947)	581887	87.2115	87.2115
5 Phenol	94	6.559	6.538	(0.948)	563067	79.0395	79.0394
6 Aniline	66	6.559	6.558	(0.948)	272860	88.8037	88.8036(Q)
7 bis(2-Chloroethyl)ether	63	6.620	6.619	(0.957)	192612	41.5899	41.5898(Q)
8 2-Chlorophenol	128	6.712	6.691	(0.970)	621631	89.4665	89.4664
9 1,3-Dichlorobenzene	146	6.855	6.855	(0.991)	334575	43.0785	43.0785
* 10 1,4-Dichlorobenzene-d4	152	6.917	6.916	(1.000)	219705	40.0000	
11 1,4-Dichlorobenzene	146	6.937	6.936	(1.003)	341270	44.5877	44.5877
12 Benzyl alcohol	108	7.101	7.090	(1.027)	162787	38.8867	38.8866
13 1,2-Dichlorobenzene	146	7.111	7.120	(1.028)	319700	44.1964	44.1964
14 2-Methylphenol	107	7.224	7.212	(1.044)	405575	93.6605	93.6604
15 bis(2-Chloroisopropyl) ether	45	7.224	7.233	(1.044)	448251	42.1813	42.1813
16 4-Methylphenol	107	7.408	7.407	(1.071)	606322	86.5396	86.5396
17 N-Nitroso-di-n-propylamine	70	7.438	7.417	(1.075)	138792	41.1049	41.1048(M)
18 Hexachloroethane	117	7.500	7.499	(1.084)	143865	44.7020	44.7019
$ 19 Nitrobenzene-d5	82	7.571	7.580	(0.900)	259099	44.2652	44.2652
20 Nitrobenzene	77	7.592	7.601	(0.903)	244289	45.5929	45.5928
21 Isophorone	82	7.929	7.887	(0.943)	481769	42.1459	42.1458(M)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU13.D
Report Date: 01-Dec-2004 10:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	22 2-Nitrophenol	139	7.970	7.969	(0.948)	323367	72.8123	72.8123
	23 2,4-Dimethylphenol	122	8.021	8.020	(0.954)	483998	106.320	106.3203(Q)
	24 bis(2-Chloroethoxy)methane	93	8.113	8.122	(0.965)	321770	46.2995	46.2995
	25 2,4-Dichlorophenol	162	8.266	8.265	(0.983)	541554	89.7762	89.7762
	26 Benzoic acid	122	8.123	8.255	(0.966)	9425	12.6422	12.6421(Q)
	27 1,2,4-Trichlorobenzene	180	8.348	8.347	(0.993)	331339	45.8854	45.8854
*	28 Naphthalene-d8	136	8.409	8.419	(1.000)	740339	40.0000	
	29 Naphthalene	128	8.440	8.439	(1.004)	841300	47.4083	47.4082
	30 4-Chloroaniline	127	8.512	8.511	(1.012)	127233	17.3792	17.3792
	31 Hexachlorobutadiene	225	8.583	8.582	(1.021)	215437	45.8628	45.8627
	32 4-Chloro-3-methylphenol	107	9.094	9.093	(1.081)	471734	87.4064	87.4064
	33 2-Methylnaphthalene	142	9.268	9.267	(1.102)	594642	45.5943	45.5942
	34 Hexachlorocyclopentadiene	237	9.462	9.461	(0.898)	219228	70.6226	70.6226
	35 2,4,6-Trichlorophenol	196	9.626	9.625	(0.914)	463307	96.2314	96.2313
	36 2,4,5-Trichlorophenol	196	9.677	9.676	(0.918)	454423	95.3530	95.3529
$	37 2-Fluorobiphenyl	172	9.718	9.717	(0.922)	702993	52.1142	52.1141
	38 2-Chloronaphthalene	162	9.861	9.870	(0.936)	560883	50.6644	50.6644
	39 2-Nitroaniline	65	10.004	10.014	(0.950)	139914	44.5128	44.5128
	40 Dimethylphthalate	163	10.219	10.218	(0.970)	784035	47.0240	47.0239
	41 2,6-Dinitrotoluene	165	10.301	10.310	(0.978)	190597	49.6947	49.6946
	42 Acenaphthylene	152	10.372	10.371	(0.984)	868682	48.5561	48.5561
	43 3-Nitroaniline	138	10.505	10.525	(0.997)	70655	22.1787	22.1786(a)
*	44 Acenaphthene-d10	164	10.536	10.545	(1.000)	461403	40.0000	
	45 Acenaphthene	154	10.577	10.586	(1.004)	508575	48.5591	48.5590
	46 2,4-Dinitrophenol	184	10.638	10.647	(1.010)	10148	13.4959	13.4959(aQ)
	47 4-Nitrophenol	109	10.740	10.739	(1.019)	140470	70.6127	70.6127(Q)
	48 Dibenzofuran	168	10.791	10.791	(1.024)	813023	49.9137	49.9137
	49 2,4-Dinitrotoluene	165	10.791	10.801	(1.024)	231456	45.8921	45.8921
	50 Diethylphthalate	149	11.068	11.077	(1.050)	798816	48.9124	48.9123
	51 4-Chlorophenyl-phenylether	204	11.200	11.199	(1.063)	381959	51.4170	51.4169
	52 Fluorene	166	11.211	11.210	(1.064)	658201	48.8165	48.8165
	53 4-Nitroaniline	138	11.272	11.291	(1.070)	114635	38.7533	38.7532
	54 4,6-Dinitro-2-methylphenol	198	11.292	11.312	(0.914)	100657	31.8555	31.8554(Q)
	55 N-Nitrosodiphenylamine	169	11.354	11.363	(0.919)	435432	48.4376	48.4375
	56 Azobenzene	77	11.395	11.394	(0.922)	567354	45.6952	45.6951
$	57 2,4,6-Tribromophenol	330	11.517	11.516	(1.093)	289089	90.6758	90.6758
	58 4-Bromophenyl-phenylether	248	11.793	11.803	(0.954)	230698	47.8841	47.8840
	59 Hexachlorobenzene	284	11.896	11.905	(0.963)	274370	47.5618	47.5617
	60 Pentachlorophenol	266	12.141	12.140	(0.983)	275376	73.5925	73.5924
*	61 Phenanthrene-d10	188	12.356	12.355	(1.000)	820036	40.0000	
	62 Phenanthrene	178	12.386	12.396	(1.002)	943619	49.4814	49.4814
	63 Anthracene	178	12.448	12.457	(1.007)	922087	48.7674	48.7673
	65 Di-n-butylphthalate	149	13.041	13.050	(1.055)	1490473	51.0778	51.0777
	66 Fluoranthene	202	13.828	13.837	(1.119)	1089151	47.8083	47.8082
	68 Pyrene	202	14.114	14.123	(0.900)	1097358	47.6491	47.6490
$	69 Terphenyl-d14	244	14.278	14.287	(0.910)	806406	44.9640	44.9640
	70 Butylbenzylphthalate	149	14.871	14.880	(0.948)	679819	48.3106	48.3106
	71 3,3'-Dichlorobenzidine	252	15.617	15.636	(0.995)	137542	21.9677	21.9677
	72 bis(2-Ethylhexyl)phthalate	149	15.648	15.657	(0.997)	1008221	54.1545	54.1544
	73 Benzo(a)anthracene	228	15.658	15.667	(0.998)	1000419	44.5982	44.5981
*	74 Chrysene-d12	240	15.688	15.698	(1.000)	712040	40.0000	
	75 Chrysene	228	15.729	15.739	(1.003)	896311	45.4384	45.4384
	76 Di-n-octylphthalate	149	16.701	16.700	(0.912)	1717134	46.4909	46.4909
	77 Benzo(b)fluoranthene	252	17.508	17.538	(0.956)	991454	37.1241	37.1241

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU13.D
Report Date: 01-Dec-2004 10:33

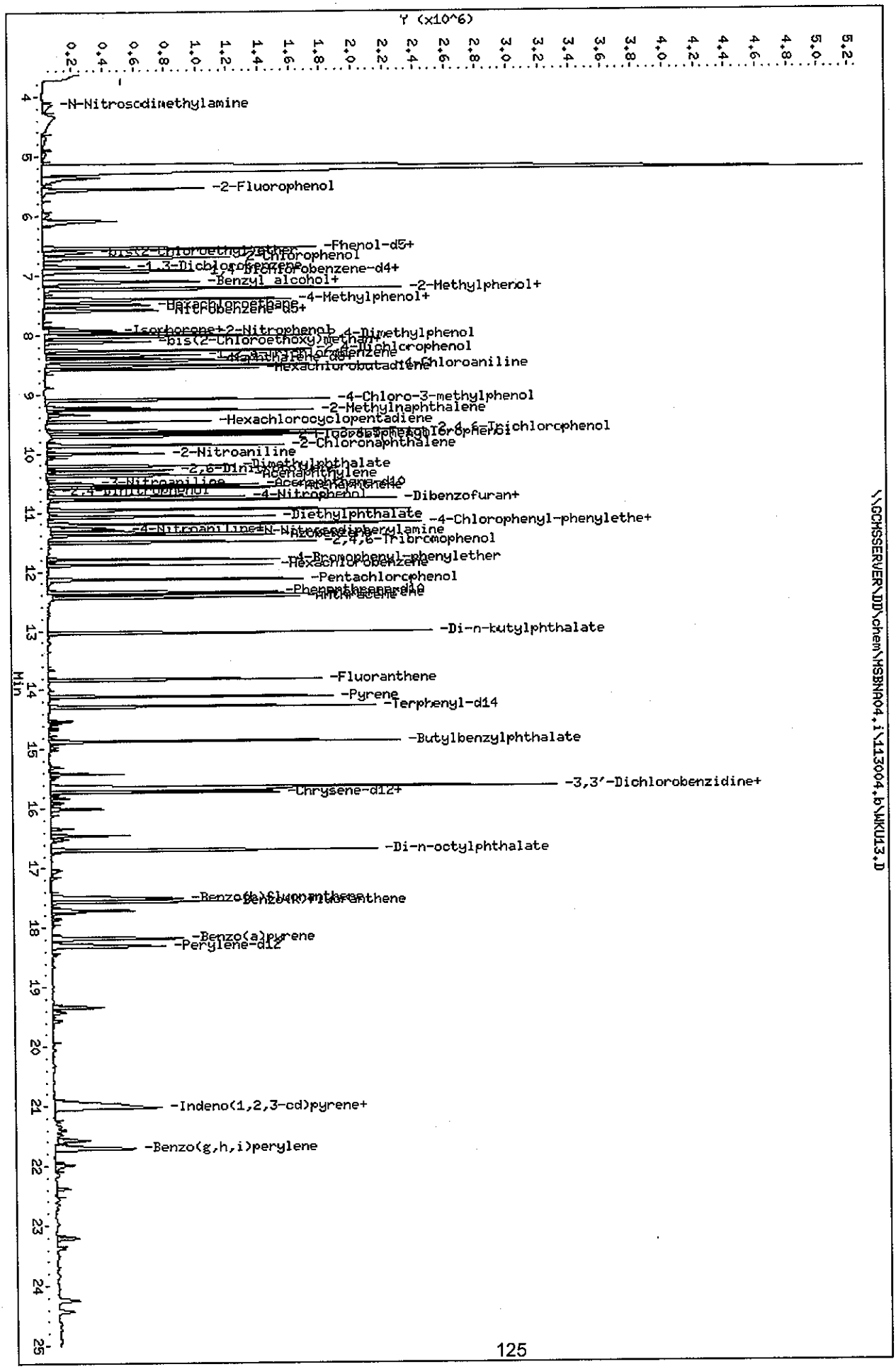
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
78 Benzo(k)fluoranthene	252	17.570	17.589	(0.960)	889155	48.5718	48.5717(A)
79 Benzo(a)pyrene	252	18.183	18.202	(0.993)	796090	44.6384	44.6383
* 80 Perylene-d12	264	18.306	18.325	(1.000)	598468	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.964	21.024	(1.145)	874174	48.4219	48.4218
82 Dibenz(a,h)anthracene	278	21.025	21.065	(1.149)	736819	50.6347	50.6346
83 Benzo(g,h,i)perylene	276	21.720	21.740	(1.187)	672396	45.2923	45.2922

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU13.D
Date : 30-NOV-2004 18:27
Client ID: CURTIS&TOMPKINS
Sample Info: MS,QC274072
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU14.D
Report Date: 01-Dec-2004 10:35

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU14.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 19:04 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : MSD,QC274073
Misc Info : 96932,1, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 18:18 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 5 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
1 N-Nitrosodimethylamine	74	4.125	4.156	(0.596)	118153	37.5806	37.5806
$ 3 2-Fluorophenol	112	5.567	5.505	(0.805)	528605	84.6165	84.6165
$ 4 Phenol-d5	99	6.548	6.517	(0.947)	590940	80.0067	80.0067
5 Phenol	94	6.569	6.538	(0.950)	580562	73.6174	73.6173
6 Aniline	66	6.559	6.558	(0.948)	277236	81.5058	81.5057(Q)
7 bis(2-Chloroethyl)ether	63	6.610	6.619	(0.956)	185447	36.1719	36.1719(Q)
8 2-Chlorophenol	128	6.712	6.691	(0.970)	633087	82.3074	82.3073
9 1,3-Dichlorobenzene	146	6.855	6.855	(0.991)	313680	36.4840	36.4839
* 10 1,4-Dichlorobenzene-d4	152	6.916	6.916	(1.000)	243216	40.0000	
11 1,4-Dichlorobenzene	146	6.937	6.936	(1.003)	320217	37.7928	37.7928
12 Benzyl alcohol	108	7.100	7.090	(1.027)	166672	35.9659	35.9659
13 1,2-Dichlorobenzene	146	7.111	7.120	(1.028)	300269	37.4975	37.4975
14 2-Methylphenol	107	7.223	7.212	(1.044)	415765	86.7323	86.7323
15 bis(2-Chloroisopropyl) ether	45	7.223	7.233	(1.044)	434354	36.9224	36.9224
16 4-Methylphenol	107	7.407	7.407	(1.071)	640131	82.5331	82.5331
17 N-Nitroso-di-n-propylamine	70	7.438	7.417	(1.075)	143183	38.3061	38.3061(M)
18 Hexachloroethane	117	7.499	7.499	(1.084)	134712	37.8116	37.8116
$ 19 Nitrobenzene-d5	82	7.571	7.580	(0.900)	255974	39.5621	39.5621
20 Nitrobenzene	77	7.591	7.601	(0.903)	240276	40.5686	40.5686
21 Isophorone	82	7.928	7.887	(0.943)	489951	38.7753	38.7753(M)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU14.D
Report Date: 01-Dec-2004 10:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	22 2-Nitrophenol	139	7.969	7.969	(0.948)	333034	67.8398	67.8397
	23 2,4-Dimethylphenol	122	8.020	8.020	(0.954)	513461	102.039	102.0392(Q)
	24 bis(2-Chloroethoxy)methane	93	8.112	8.122	(0.965)	328131	42.7135	42.7134
	25 2,4-Dichlorophenol	162	8.266	8.265	(0.983)	573623	86.0266	86.0266
	26 Benzoic acid	122	8.133	8.255	(0.967)	9078	12.2669	12.2669
	27 1,2,4-Trichlorobenzene	180	8.348	8.347	(0.993)	322491	40.4023	40.4023
*	28 Naphthalene-d8	136	8.409	8.419	(1.000)	818359	40.0000	
	29 Naphthalene	128	8.440	8.439	(1.004)	829039	42.2635	42.2634
	30 4-Chloroaniline	127	8.521	8.511	(1.013)	157564	19.4704	19.4703
	31 Hexachlorobutadiene	225	8.583	8.582	(1.021)	209830	40.4105	40.4104
	32 4-Chloro-3-methylphenol	107	9.094	9.093	(1.081)	509559	85.4137	85.4136
	33 2-Methylnaphthalene	142	9.268	9.267	(1.102)	588746	40.8384	40.8384
	34 Hexachlorocyclopentadiene	237	9.462	9.461	(0.898)	208192	59.7235	59.7234
	35 2,4,6-Trichlorophenol	196	9.626	9.625	(0.914)	495623	91.6711	91.6711
	36 2,4,5-Trichlorophenol	196	9.677	9.676	(0.918)	511545	95.5853	95.5852
$	37 2-Fluorobiphenyl	172	9.718	9.717	(0.922)	735617	48.5613	48.5612
	38 2-Chloronaphthalene	162	9.861	9.870	(0.936)	583152	46.9079	46.9079
	39 2-Nitroaniline	65	10.004	10.014	(0.950)	148623	42.1060	42.1059
	40 Dimethylphthalate	163	10.219	10.218	(0.970)	831001	44.3832	44.3832
	41 2,6-Dinitrotoluene	165	10.300	10.310	(0.978)	202558	47.0302	47.0301
	42 Acenaphthylene	152	10.372	10.371	(0.984)	915245	45.5569	45.5568
	43 3-Nitroaniline	138	10.505	10.525	(0.997)	82879	23.1670	23.1670(a)
*	44 Acenaphthene-d10	164	10.535	10.545	(1.000)	518140	40.0000	
	45 Acenaphthene	154	10.587	10.586	(1.005)	535717	45.5496	45.5495
	46 2,4-Dinitrophenol	184	10.638	10.647	(1.010)	13839	14.3117	14.3116(a)
	47 4-Nitrophenol	109	10.740	10.739	(1.019)	160539	71.8643	71.8642(Q)
	48 Dibenzofuran	168	10.791	10.791	(1.024)	829436	45.3454	45.3454
	49 2,4-Dinitrotoluene	165	10.801	10.801	(1.025)	250297	44.1935	44.1935
	50 Diethylphthalate	149	11.077	11.077	(1.051)	879505	47.9561	47.9560
	51 4-Chlorophenyl-phenylether	204	11.200	11.199	(1.063)	404882	48.5346	48.5346
	52 Fluorene	166	11.210	11.210	(1.064)	693460	45.7997	45.7997
	53 4-Nitroaniline	138	11.272	11.291	(1.070)	124446	37.5781	37.5780
	54 4,6-Dinitro-2-methylphenol	198	11.302	11.312	(0.915)	121772	34.2479	34.2479(Q)
	55 N-Nitrosodiphenylamine	169	11.353	11.363	(0.919)	463595	45.8298	45.8297
	56 Azobenzene	77	11.394	11.394	(0.922)	598630	42.8471	42.8471
$	57 2,4,6-Tribromophenol	330	11.517	11.516	(1.093)	306868	85.7126	85.7126
	58 4-Bromophenyl-phenylether	248	11.793	11.803	(0.954)	249355	45.9952	45.9951
	59 Hexachlorobenzene	284	11.895	11.905	(0.963)	290168	44.7011	44.7010
	60 Pentachlorophenol	266	12.141	12.140	(0.983)	304407	72.2951	72.2951
*	61 Phenanthrene-d10	188	12.355	12.355	(1.000)	922754	40.0000	
	62 Phenanthrene	178	12.386	12.396	(1.002)	1022081	47.6297	47.6296
	63 Anthracene	178	12.447	12.457	(1.007)	966703	45.4357	45.4357
	65 Di-n-butylphthalate	149	13.040	13.050	(1.055)	1595150	48.5799	48.5798
	66 Fluoranthene	202	13.838	13.837	(1.120)	1168446	45.5796	45.5796
	68 Pyrene	202	14.114	14.123	(0.900)	1190775	45.7784	45.7784
$	69 Terphenyl-d14	244	14.277	14.287	(0.910)	865924	42.7481	42.7480
	70 Butylbenzylphthalate	149	14.870	14.880	(0.948)	729551	45.9018	45.9018
	71 3,3'-Dichlorobenzidine	252	15.616	15.636	(0.995)	170139	24.0591	24.0590
	72 bis(2-Ethylhexyl)phthalate	149	15.647	15.657	(0.997)	1076050	51.1725	51.1724
	73 Benzo(a)anthracene	228	15.657	15.667	(0.998)	1083288	42.7567	42.7566
*	74 Chrysene-d12	240	15.688	15.698	(1.000)	804228	40.0000	
	75 Chrysene	228	15.729	15.739	(1.003)	950122	42.6451	42.6451
	76 Di-n-octylphthalate	149	16.700	16.700	(0.912)	1848218	45.9462	45.9461
	77 Benzo(b)fluoranthene	252	17.508	17.538	(0.956)	1043343	35.9523	35.9522

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU14.D
Report Date: 01-Dec-2004 10:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
78 Benzo(k)fluoranthene	252	17.569	17.589	(0.959)	981738	49.2418	49.2418(A)
79 Benzo(a)pyrene	252	18.193	18.202	(0.993)	850739	43.8000	43.8000
* 80 Perylene-d12	264	18.315	18.325	(1.000)	651792	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.974	21.024	(1.145)	919482	46.7648	46.7647
82 Dibenz(a,h)anthracene	278	21.035	21.065	(1.148)	771985	48.7111	48.7111
83 Benzo(g,h,i)perylene	276	21.720	21.740	(1.186)	707510	43.7586	43.7586

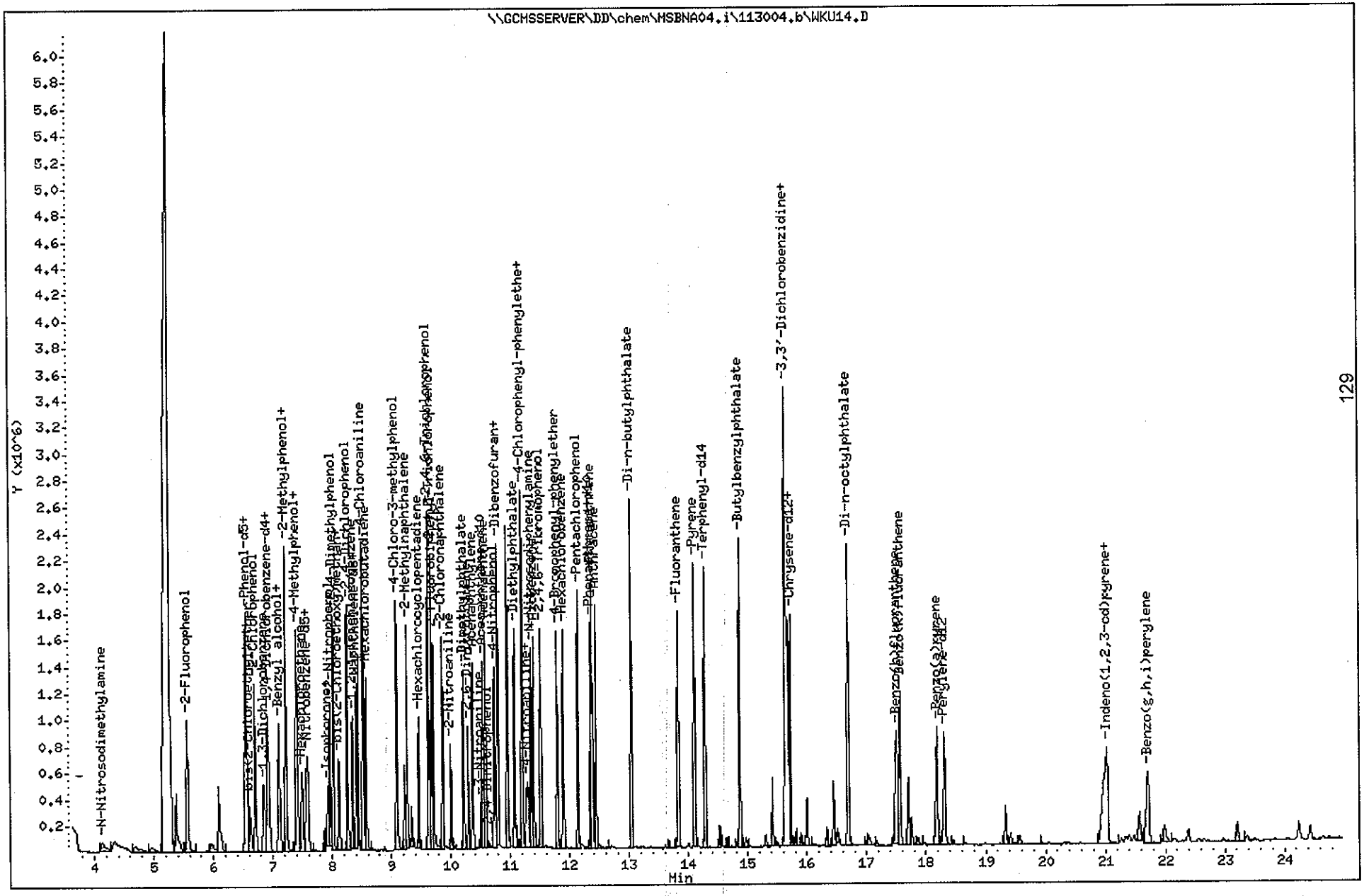
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU14.D
Date : 30-NOV-2004 19:04
Client ID: CURTIS&TOMPKINS
Sample Info: MSD,QC274073
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i

Operator: BVD
Column diameter: 0.25



Curtis & Tompkins, Ltd.

Initial Calibration Data

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT02.D

Date : 29-NOV-2004 10:12

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

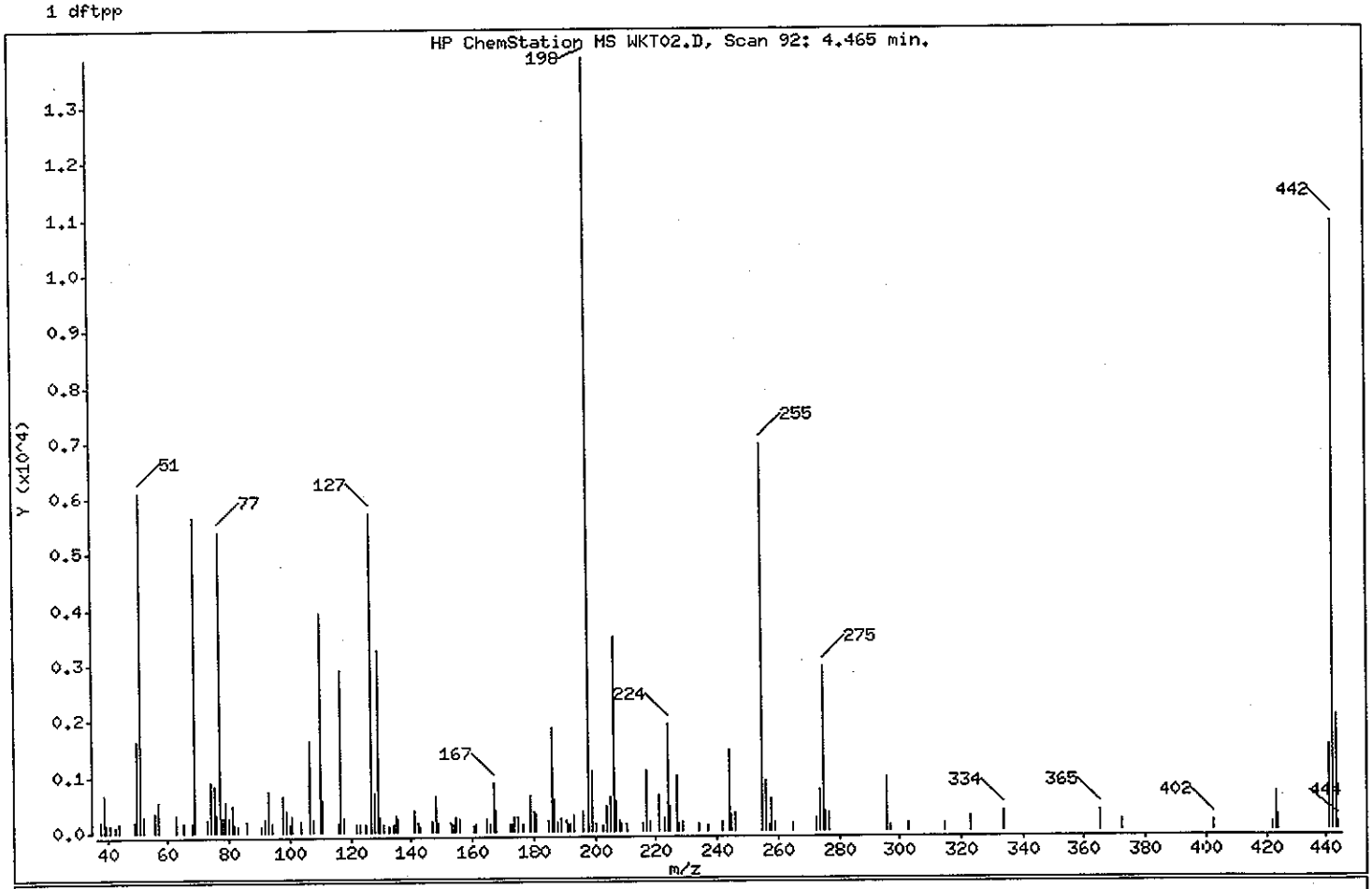
Volume Injected (uL): 1.0

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.08
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.79
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.24
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.79
275	10.00 - 30.00% of mass 198	21.27
365	Greater than 1.00% of mass 198	2.45
441	Present, but less than mass 443	10.72
442	40.00 - 99.99% of mass 198	78.46
443	17.00 - 23.00% of mass 442	14.79 (18.85)

ICAL

ok

11/30/04

11/30/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT02.D

Date : 29-NOV-2004 10:12

Client ID: dftpp tune std

Instrument: MSBNA04.i

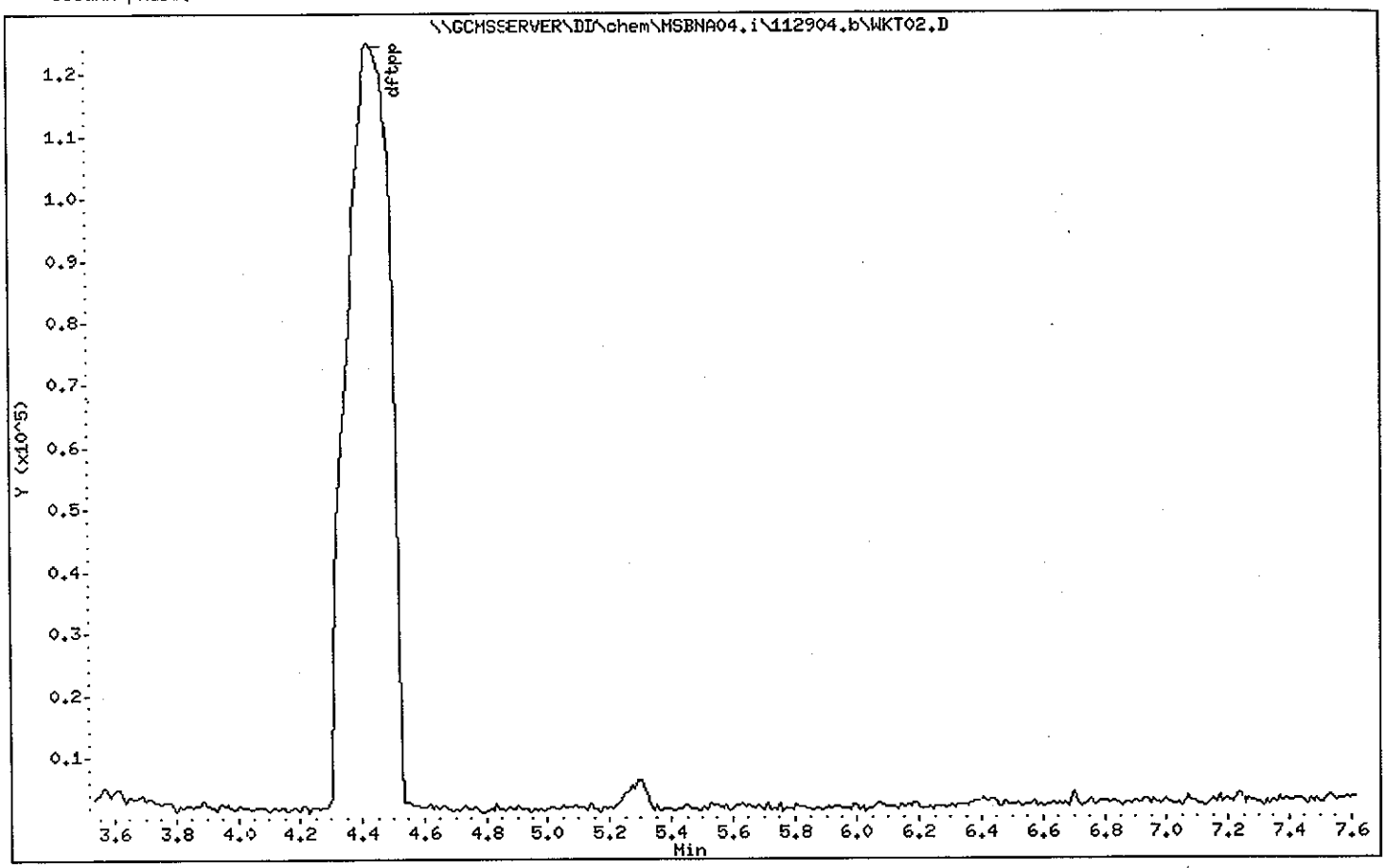
Sample Info: TUN,04WS15543

Volume Injected (uL): 1.0

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT02.D

Date : 29-NOV-2004 10:12

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

Volume Injected (uL): 1.0

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

Data File: WKT02.D
Spectrum: HP ChemStation MS WKT02.D, Scan 92: 4.465 min.
Location of Maximum: 197.90
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.70	207	106.90	1644	173.90	267	236.95	105
38.80	672	107.80	236	174.80	248	241.70	148
39.70	125	109.95	3942	176.80	130	243.90	1435
41.05	129	110.85	560	178.75	641	245.00	290
42.85	109	115.90	166	179.85	358	245.90	318
43.85	162	116.90	2899	180.95	317	254.90	6939
48.70	176	117.70	260	184.90	194	255.90	891
49.90	1629	122.05	141	185.90	1845	256.90	108
50.90	6111	122.95	121	186.90	574	257.85	580
51.95	285	124.95	129	187.90	174	258.75	145
55.95	364	126.90	5718	188.85	229	264.90	130
56.85	553	128.00	700	190.75	176	272.75	225
62.95	328	128.90	3260	191.85	131	273.85	738
64.95	168	129.70	242	192.95	301	274.90	2949
67.45	150	130.90	114	195.90	366	275.80	355
68.90	5655	132.95	107	197.90	13865	276.80	310
72.80	239	133.85	137	198.80	1080	295.95	970
73.90	890	134.95	299	200.00	112	296.85	110
74.95	828	135.95	209	202.75	101	302.70	125
75.85	335	140.90	381	203.85	442	303.10	107
76.95	5406	141.90	148	204.85	606	314.95	119
78.05	257	142.80	103	205.95	3491	322.90	256
78.95	548	146.75	177	206.90	532	333.80	359
80.00	248	147.85	625	208.10	192	364.85	340
80.90	476	148.90	154	208.80	128	371.90	178
81.70	116	152.80	171	210.60	127	402.20	156
83.00	101	153.90	134	215.95	128	422.05	115
85.95	182	154.75	265	216.75	1096	422.95	670
90.75	106	156.05	220	217.80	155	424.00	248
92.10	212	160.60	111	220.90	630	441.05	1486
92.90	742	161.00	116	222.70	235	442.05	10878
94.10	150	164.90	224	223.95	1902	443.05	2051
97.95	644	165.80	140	224.85	449	444.05	138
98.85	379	166.85	877	226.75	986		
99.85	113	167.85	369	227.65	137		

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT02.D

Date : 29-NOV-2004 10:12

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

Volume Injected (uL): 1.0

Operator: BNA

Column phase: Xti 5

Column diameter: 0.25

Data File: WKT02.D
Spectrum: HP ChemStation MS WKT02.D, Scan 92: 4.465 min.
Location of Maximum: 197.90
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
100.85	274	172.70	119	229.00	161		
103.70	204	173.00	114	233.80	113		

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU01.D

Date : 30-NOV-2004 11:45

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

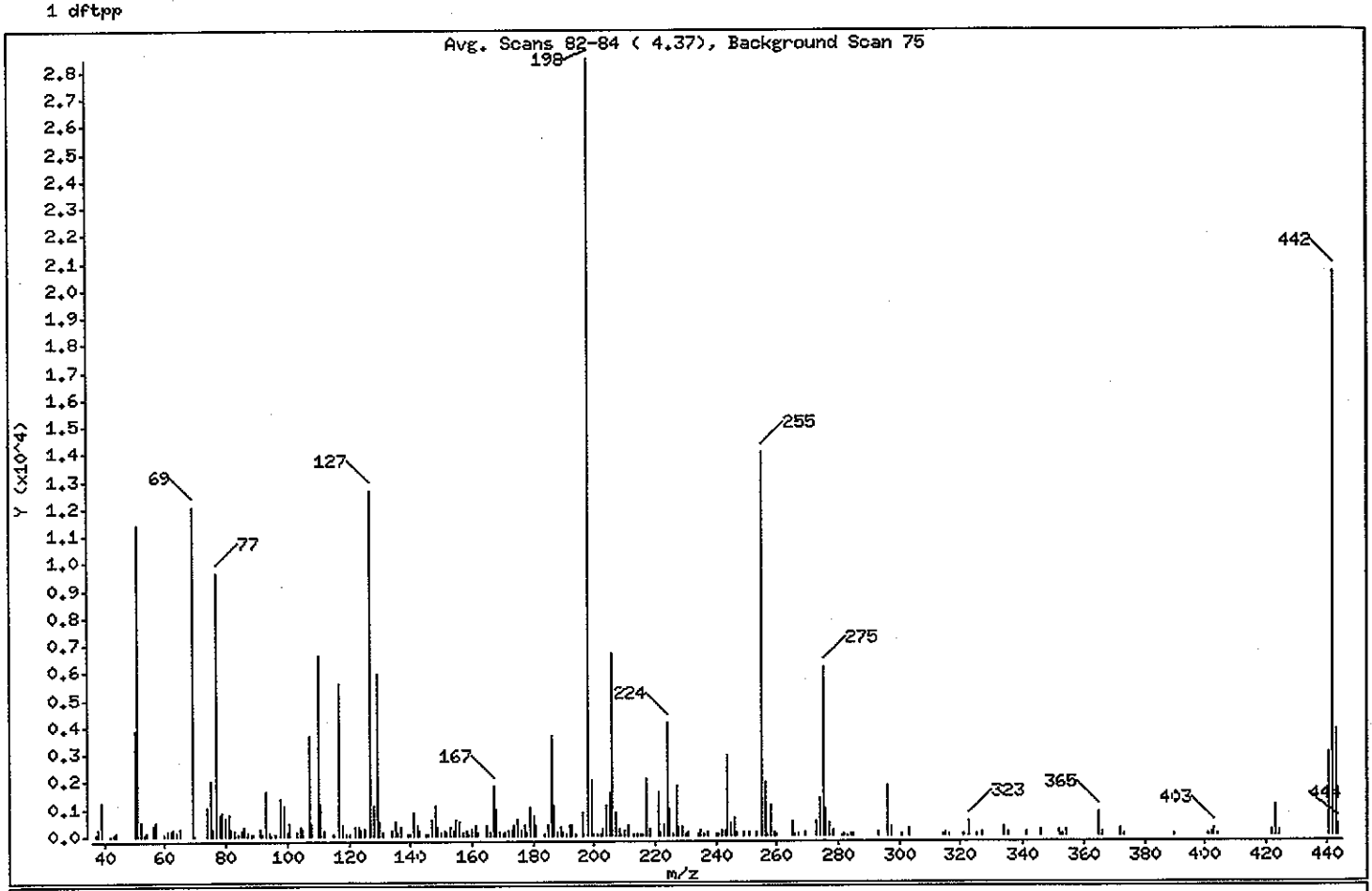
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.10
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.40
70	Less than 2.00% of mass 69	0.10 (0.24)
127	40.00 - 60.00% of mass 198	44.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.15
275	10.00 - 30.00% of mass 198	21.75
365	Greater than 1.00% of mass 198	3.10
441	Present, but less than mass 443	10.71
442	40.00 - 99.99% of mass 198	72.66
443	17.00 - 23.00% of mass 442	13.57 (18.68)

Ok

Cert Pending

12/01/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU01.D

Date : 30-NOV-2004 11:45

Client ID: dftpp tune std

Instrument: MSBNA04.i

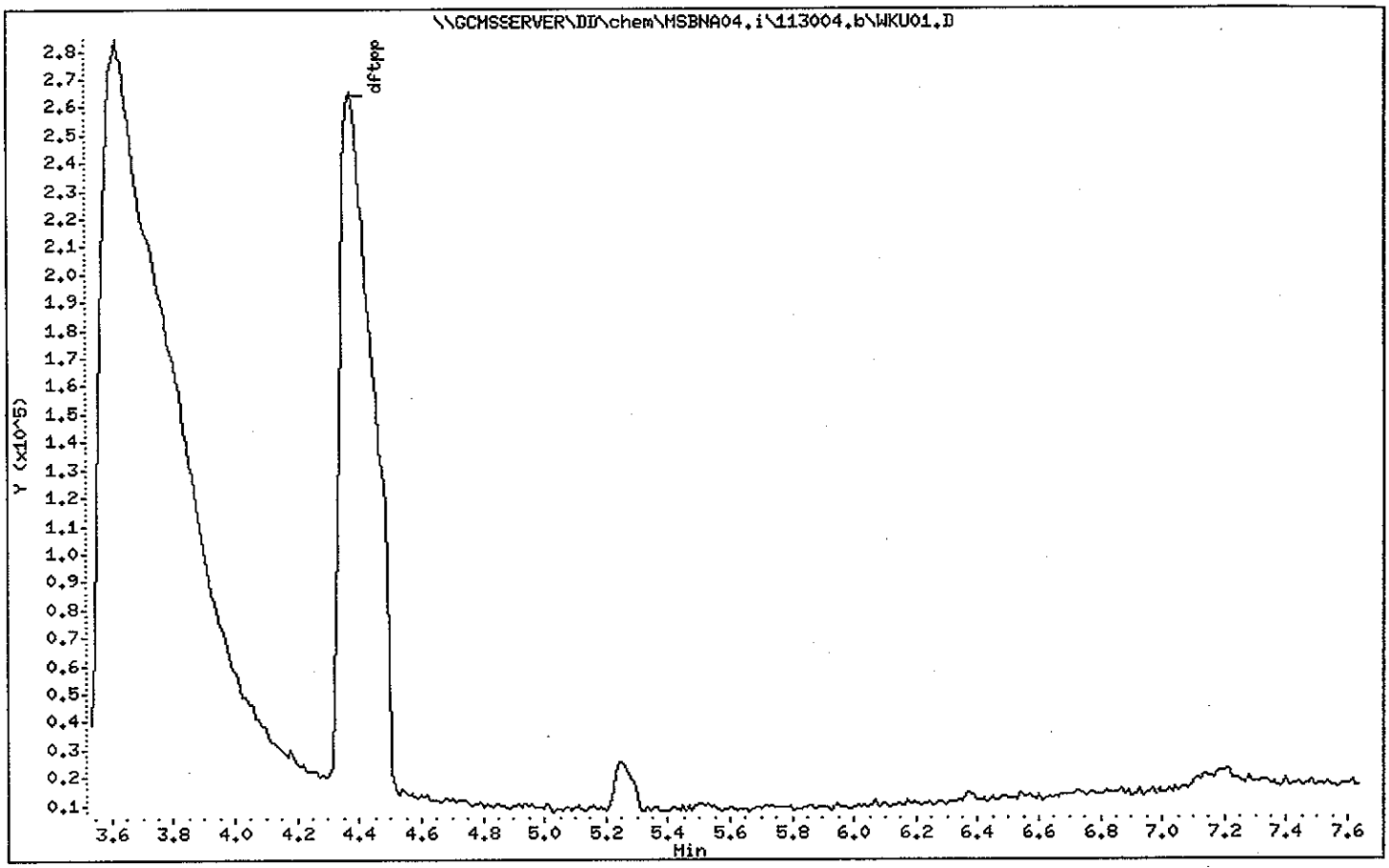
Sample Info: TUN,04WS15543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU01.D

Date : 30-NOV-2004 11:45

Client ID: dftpp tune std | Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 | Column diameter: 0.25

Data File: WKU01.D
Spectrum: Avg. Scans 82-84 (4.37), Background Scan 75
Location of Maximum: 198.00
Number of points: 227

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	48	118.00	367	185.00	390	255.00	14038
38.00	235	119.00	35	186.00	3674	256.00	1983
39.00	1249	120.00	55	187.00	1082	257.00	73
42.00	10	122.00	302	188.00	148	258.00	1136
43.00	40	123.00	355	189.00	326	259.00	138
44.00	152	124.00	175	190.00	154	260.00	33
50.00	3847	125.00	261	191.00	59	265.00	504
51.00	11411	127.00	12651	192.00	373	266.00	51
52.00	533	128.00	1112	193.00	410	267.00	54
53.00	82	129.00	5979	194.00	86	269.00	161
54.00	127	130.00	552	196.00	882	273.00	522
56.00	363	131.00	132	198.00	28456	274.00	1388
57.00	553	134.00	194	199.00	2035	275.00	6191
60.00	96	135.00	539	200.00	95	276.00	997
61.00	170	136.00	156	201.00	49	277.00	484
62.00	176	137.00	327	202.00	86	278.00	175
63.00	260	139.00	33	203.00	294	281.00	6
64.00	116	140.00	37	204.00	1110	282.00	46
65.00	280	141.00	869	205.00	1573	283.00	5
69.00	12065	142.00	369	206.00	6673	284.00	36
70.00	29	143.00	207	207.00	875	285.00	72
74.00	1064	145.00	90	208.00	275	293.00	133
75.00	2055	146.00	98	209.00	90	296.00	1811
76.00	252	147.00	595	210.00	206	297.00	309
77.00	9660	148.00	1140	211.00	380	301.00	34
78.00	818	149.00	360	213.00	49	303.00	232
79.00	832	150.00	119	214.00	56	314.00	68
80.00	667	151.00	190	215.00	93	315.00	148
81.00	765	152.00	145	216.00	83	316.00	95
82.00	235	153.00	320	217.00	2096	321.00	34
83.00	216	154.00	182	218.00	279	323.00	514
84.00	44	155.00	579	221.00	1571	325.00	39
85.00	204	156.00	546	222.00	113	327.00	121
86.00	339	157.00	125	223.00	369	334.00	348
87.00	155	158.00	197	224.00	4163	335.00	114

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU01.D

Date : 30-NOV-2004 11:45

Client ID: dftpp tune std | Instrument: MSBNA04.i

Sample Info: TUN,04WS15543

Volume Injected (uL): 1.0 | Operator: BVD

Column phase: Xti 5 | Column diameter: 0.25

Data File: WKU01.D
Spectrum: Avg. Scans 82-84 (4.37), Background Scan 75
Location of Maximum: 198.00
Number of points: 227

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	90	159.00	90	225.00	976	341.00	125
89.00	44	160.00	248	226.00	68	346.00	178
91.00	249	161.00	395	227.00	1867	352.00	193
92.00	90	162.00	107	228.00	316	353.00	77
93.00	1619	165.00	390	229.00	310	354.00	223
94.00	162	166.00	118	230.00	35	365.00	881
95.00	1	167.00	1868	231.00	124	366.00	114
96.00	73	168.00	1001	234.00	72	372.00	273
98.00	1402	169.00	115	235.00	168	373.00	45
99.00	1107	170.00	40	236.00	45	390.00	37
100.00	104	171.00	155	237.00	118	401.00	38
101.00	456	172.00	184	240.00	77	402.00	145
103.00	105	173.00	177	241.00	98	403.00	245
104.00	337	174.00	381	242.00	197	404.00	40
105.00	261	175.00	576	243.00	197	422.00	222
107.00	3667	176.00	197	244.00	2951	423.00	1110
108.00	489	177.00	372	245.00	432	424.00	220
110.00	6644	178.00	142	246.00	631	441.00	3047
111.00	1153	179.00	1074	247.00	141	442.00	20672
112.00	202	180.00	736	249.00	124	443.00	3863
115.00	84	181.00	365	251.00	143	444.00	365
117.00	5560	184.00	43	253.00	127		

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU10.D

Date : 30-NOV-2004 17:00

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

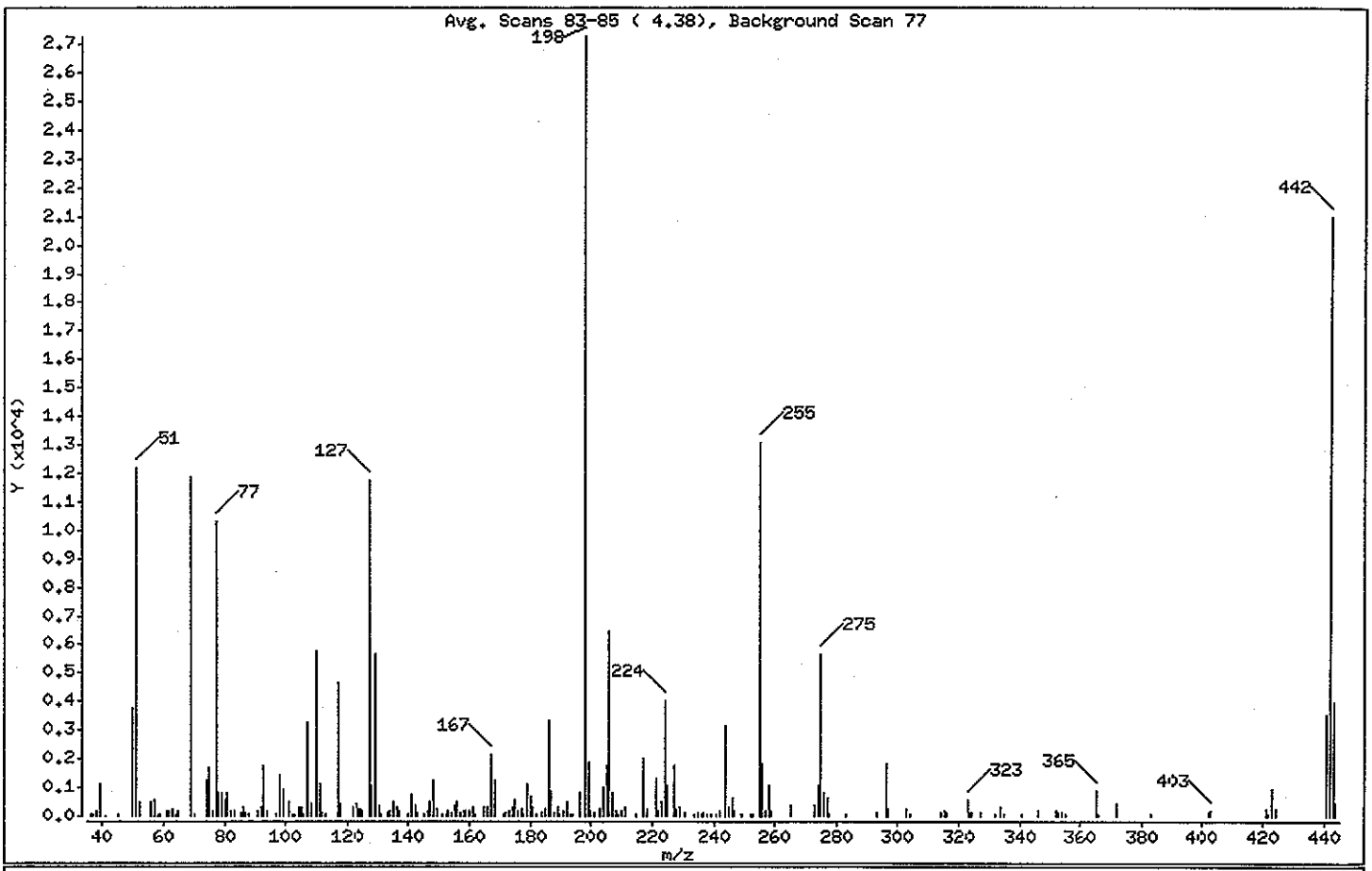
Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.74
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.45
70	Less than 2.00% of mass 69	0.27 (0.62)
127	40.00 - 60.00% of mass 198	43.16
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	20.84
365	Greater than 1.00% of mass 198	3.11
441	Present, but less than mass 443	12.90
442	40.00 - 99.99% of mass 198	77.05
443	17.00 - 23.00% of mass 442	14.62 (18.97)

Ok

Ok

12/01/04

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU10.D

Date : 30-NOV-2004 17:00

Client ID: dftpp tune std

Instrument: MSBNA04.i

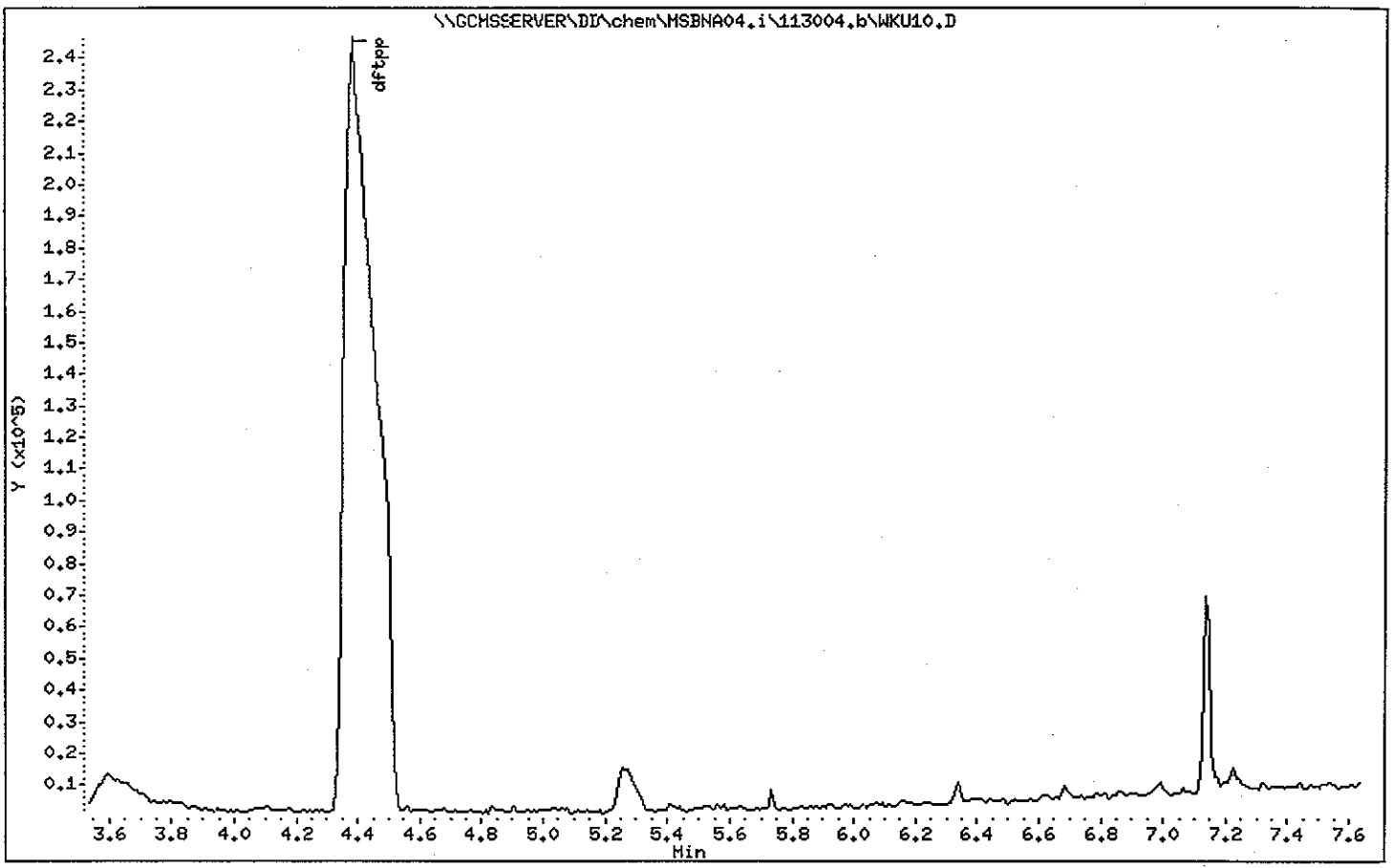
Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU10.D

Date : 30-NOV-2004 17:00

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: WKU10.D
Spectrum: Avg. Scans 83-85 (4.38), Background Scan 77
Location of Maximum: 198.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	82	113.00	62	181.00	289	252.00	35
37.00	40	117.00	4638	182.00	50	253.00	50
38.00	219	118.00	411	184.00	153	255.00	13070
39.00	1110	122.00	301	185.00	274	256.00	1801
41.00	27	123.00	449	186.00	3356	257.00	176
45.00	70	124.00	230	187.00	897	258.00	1042
50.00	3777	125.00	176	188.00	152	259.00	186
51.00	12197	127.00	11766	189.00	321	265.00	374
52.00	496	128.00	1064	190.00	39	273.00	378
56.00	474	129.00	5631	191.00	200	274.00	1047
57.00	559	130.00	383	192.00	506	275.00	5683
58.00	35	131.00	50	193.00	64	276.00	796
59.00	56	133.00	109	194.00	81	277.00	650
61.00	171	134.00	218	196.00	799	278.00	91
62.00	182	135.00	472	198.00	27264	283.00	39
63.00	272	136.00	335	199.00	1890	293.00	96
64.00	40	137.00	177	200.00	178	296.00	1844
65.00	194	140.00	81	201.00	138	297.00	281
69.00	11845	141.00	725	203.00	261	303.00	220
70.00	73	142.00	364	204.00	980	304.00	36
74.00	1275	143.00	110	205.00	1777	314.00	112
75.00	1709	145.00	37	206.00	6446	315.00	198
76.00	213	146.00	174	207.00	831	316.00	123
77.00	10273	147.00	496	208.00	208	323.00	547
78.00	833	148.00	1251	209.00	86	324.00	125
79.00	826	149.00	256	210.00	204	327.00	138
80.00	552	151.00	76	211.00	288	332.00	76
81.00	792	152.00	93	215.00	89	334.00	330
82.00	181	153.00	207	217.00	1993	335.00	37
83.00	183	154.00	115	218.00	241	341.00	38
85.00	119	155.00	408	221.00	1336	346.00	177
86.00	327	156.00	478	222.00	209	352.00	185
87.00	143	157.00	151	223.00	502	353.00	144
88.00	88	158.00	195	224.00	4013	354.00	96
91.00	209	159.00	204	225.00	1076	355.00	54

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU10.D

Date : 30-NOV-2004 17:00

Client ID: dftpp tune std

Instrument: MSBNA04.i

Sample Info: TUN,04WS1543

Volume Injected (uL): 1.0

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

Data File: WKU10.D
Spectrum: Avg. Scans 83-85 (4.38), Background Scan 77
Location of Maximum: 198.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	285	160.00	207	227.00	1751	365.00	849
93.00	1728	161.00	317	228.00	261	366.00	76
94.00	214	162.00	37	229.00	316	372.00	415
97.00	61	165.00	325	231.00	96	383.00	37
98.00	1456	166.00	288	234.00	47	402.00	151
99.00	919	167.00	2112	235.00	157	403.00	161
101.00	505	168.00	1258	236.00	39	421.00	243
102.00	39	171.00	34	237.00	142	422.00	33
103.00	72	172.00	145	238.00	33	423.00	946
104.00	316	173.00	161	239.00	81	424.00	275
105.00	336	174.00	288	241.00	51	441.00	3518
106.00	71	175.00	549	242.00	210	442.00	21008
107.00	3249	176.00	159	244.00	3150	443.00	3985
108.00	465	177.00	244	245.00	343	444.00	448
110.00	5787	178.00	76	246.00	605		
111.00	1118	179.00	1127	247.00	189		
112.00	149	180.00	678	249.00	50		

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Calibration levels: BNA04 8270 Calibration

- manual integration due to tailing/splitting/ misidentified peaks:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	wkt05	534481550005	2ug/mL	29-NOV-2004 11:53	04WS1856
2	wkt06	534481550006	5ug/mL	29-NOV-2004 12:28	04WS1908
3	wkt07	534481550007	10ug/mL	29-NOV-2004 13:04	04WS1857
4	wkt08	534481550008	20ug/mL	29-NOV-2004 13:39	04WS1858
5	wkt09	534481550009	50ug/mL	29-NOV-2004 14:15	04WS1859
6	wkt10	534481550010	80ug/mL	29-NOV-2004 14:51	04WS1860
7	wkt11	534481550011	100ug/mL	29-NOV-2004 15:26	04WS1923
8	wkt12	534481550012	120ug/mL	29-NOV-2004 16:02	04WS1861
9	wkt13	534481550013	160ug/mL	29-NOV-2004 16:37	04WS1862

* ICAL = Aniline/Benzidine failed %RSD > R^2 = NT
* ICV = Benzidine ↑ %D
  = 3-Nitroaniline ↑ warning limit.

— [illegible] 11/30/04 —

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	F
N-Nitrosodimethylamine		0.4660m	0.5050m	0.4955m	0.5250	0.5246	0.5021	0.5489	0.5695	AVRG	R		1.933977		ng	0.5171	6	0.0500	0.99	15	
Pyridine		0.7514m	0.7985m	0.7705m	0.8265	0.8376	0.8212	0.8895	0.9337	AVRG	R		1.206811		ng	0.8286	7	0.0500	0.99	15	
Phenol		1.2661	1.3717	1.3850	1.3174	1.2754	1.2033	1.2784	1.2786	AVRG	R		0.771017		ng	1.2970	5	0.0500	0.99	15	
Aniline		0.6231m	0.7055m	0.7556m	0.7818m	0.4812m	0.3702m	0.3576m	0.4002m	AVRG	R		1.787602		ng	0.5594	32 NT	0.0500	0.99	15	
bis(2-Chloroethyl)ether		0.7815m	0.8467	0.8429	0.8188	0.7970	0.7720	0.9009	0.9856m	AVRG	R		1.185998		ng	0.8432	8	0.0500	0.99	15	
2-Chlorophenol		1.1504	1.2412	1.2493	1.2737	1.2629	1.2152	1.3234	1.4039	AVRG	R		0.790510		ng	1.2650	6	0.0500	0.99	15	
1,3-Dichlorobenzene		1.3596	1.4153	1.4225	1.4210	1.3926	1.3271	1.4587	1.5152	AVRG	R		0.707209		ng	1.4140	4	0.0500	0.99	15	
1,4-Dichlorobenzene		1.3631	1.4001	1.4275	1.4199	1.4241	1.3661	1.4041	1.3429	AVRG	R		0.717624		ng	1.3935	2	0.0500	0.99	15	
Benzyl alcohol		0.6679	0.7259	0.7380	0.7740	0.7488	0.7145	0.7985	0.9297m	AVRG	R		1.312082		ng	0.7621	10	0.0500	0.99	15	
1,2-Dichlorobenzene		1.3135	1.3673	1.3225	1.3473	1.3475	1.2670	1.3030	1.2674	AVRG	R		0.759319		ng	1.3170	3	0.0500	0.99	15	
2-Methylphenol		0.7873	0.8338	0.8451	0.8423	0.8172	0.7516	0.7498	0.6799	AVRG	R		1.268426		ng	0.7884	7	0.0500	0.99	15	
bis(2-Chloroisopropyl) ether		2.0949	2.2971	2.2189	2.0631	1.9056	1.7131	1.6095	1.5756	AVRG	R		0.516867		ng	1.9347	14	0.0500	0.99	15	
4-Methylphenol		1.2243	1.2358	1.3017	1.2916	1.2716m	1.2387m	1.3394m	1.3015m	AVRG	R		0.783956		ng	1.2756	3	0.0500	0.99	15	
N-Nitroso-di-n-propylamine		0.5976	0.6620	0.6453	0.6476	0.6202	0.5966m	0.5494	0.5992	AVRG	R		1.626705		ng	0.6147	6	0.0500	0.99	15	
Hexachloroethane		0.5871	0.6177	0.6064	0.6151	0.6002	0.5695	0.5502	0.5412	AVRG	R		1.706677		ng	0.5859	5	0.0500	0.99	15	
Nitrobenzene		0.2781	0.2996	0.2949	0.2959	0.2939	0.2770	0.2911	0.2856	AVRG	R		3.454329		ng	0.2895	3	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

11/30/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	F
Isophorone		0.5656	0.6392	0.6240	0.6512m	0.6279m	0.5931m	0.6273m	0.6126m	AVRG	R		1.619149		ng	0.6176	4	0.0500	0.99	15	
2-Nitrophenol		0.2053	0.2193	0.2278	0.2385	0.2570	0.2495m	0.2621	0.2602	AVRG	R		4.167540		ng	0.2399	9	0.0500	0.99	15	
2,4-Dimethylphenol		0.2342	0.2286	0.2458	0.2336	0.2353	0.2453m	0.2726m	0.2722m	AVRG	R		4.065777		ng	0.2460	7	0.0500	0.99	15	
bis(2-Chloroethoxy)methane		0.3702	0.3953	0.3895	0.3924	0.3854	0.3621	0.3725m	0.3365	AVRG	R		2.663186		ng	0.3755	5	0.0500	0.99	15	
Benzoic acid		0.0110m	0.0399	0.0426	0.1300	0.1732m	0.1756m	0.1872m	0.2039m	QUAD	R	9.717033	5.762628	-0.03610	ng	0.1204	0.996	0.0500	0.99	15	
2,4-Dichlorophenol		0.2919	0.3253	0.3253	0.3386	0.3439	0.3257	0.3416	0.3149	AVRG	R		3.068246		ng	0.3259	5	0.0500	0.99	15	
1,2,4-Trichlorobenzene		0.3627	0.3969	0.3909	0.4055	0.4013	0.3776	0.3954	0.3907	AVRG	R		2.563143		ng	0.3901	4	0.0500	0.99	15	
Naphthalene	1.0282	0.9384	1.0234	1.0040	1.0201	0.9746	0.9004	0.8753	0.8648	AVRG	R		1.042976		ng	0.9588	7	0.0500	0.99	15	
4-Chloroaniline		0.3398	0.3298	0.3614	0.4368	0.4208	0.4048	0.4406	0.4304m	AVRG	R		2.528143		ng	0.3955	11	0.0500	0.99	15	
Hexachlorobutadiene		0.2465	0.2589	0.2627	0.2695	0.2575	0.2374	0.2499	0.2480	AVRG	R		3.940129		ng	0.2538	4	0.0500	0.99	15	
4-Chloro-3-methylphenol		0.2720	0.2829	0.2861	0.3013	0.3001	0.2848	0.3062	0.2995	AVRG	R		3.429390		ng	0.2916	4	0.0500	0.99	15	
2-Methylnaphthalene	0.7029	0.6895	0.7287	0.7356	0.7651	0.7229	0.6445	0.6708	0.6819	AVRG	R		1.419140		ng	0.7047	5	0.0500	0.99	15	
Hexachlorocyclopentadiene			0.1931	0.2404	0.2972	0.3086	0.2932	0.2671	0.2842	AVRG	R		3.715935		ng	0.2691	15	0.0500	0.99	15	
2,4,6-Trichlorophenol		0.3464	0.4117	0.4226	0.4415	0.4543	0.4167	0.4294	0.4165	AVRG	R		2.395898		ng	0.4174	8	0.0500	0.99	15	
2,4,5-Trichlorophenol		0.3724	0.4188	0.4402	0.4482	0.4578	0.4152	0.3894	0.3632	AVRG	R		2.420440		ng	0.4131	9	0.0500	0.99	15	
2-Chloronaphthalene		0.8972	1.0167	1.0041	1.0194	1.0095	0.9389	0.8978	0.8943	AVRG	R		1.041961		ng	0.9597	6	0.0500	0.99	15	
2-Nitroaniline		0.2437	0.2812	0.2732	0.2855	0.2823	0.2572	0.2798	0.2770	AVRG	R		3.669819		ng	0.2725	5	0.0500	0.99	15	
Dimethylphthalate		1.3441	1.4916	1.4463	1.4798	1.4917	1.3717	1.4788	1.4595	AVRG	R		0.691838		ng	1.4454	4	0.0500	0.99	15	
2,6-Dinitrotoluene		0.2852	0.3386	0.3355	0.3528	0.3574	0.3351	0.3378	0.3176	AVRG	R		3.007560		ng	0.3325	7	0.0500	0.99	15	
Acenaphthylene	1.5309	1.5302	1.6714	1.6749	1.7064	1.6171	1.4557	1.4590	1.3128	AVRG	R		0.644768		ng	1.5509	8	0.0500	0.99	15	
3-Nitroaniline		0.2545	0.2192	0.2364	0.3042	0.3130	0.2905	0.3109	0.2807m	AVRG	R		3.620868		ng	0.2762	13	0.0500	0.99	15	
Acenaphthene	0.9606	0.8525	0.9622	0.9387	0.9745	0.9446	0.8606	0.8495	0.8284	AVRG	R		1.101377		ng	0.9080	6	0.0500	0.99	15	
2,4-Dinitrophenol				0.1202	0.1964	0.2192	0.2154	0.2490	0.2564	QUAD	R	9.674431	4.359340	-0.01763	ng	0.2094	0.997	0.0500	0.99	15	
4-Nitrophenol				0.1359	0.1640	0.1850	0.1745	0.1853	0.1901	AVRG	R		5.798553		ng	0.1725	12	0.0500	0.99	15	
Dibenzofuran		1.3600	1.5449	1.5144	1.5121	1.4831	1.3006	1.3063	1.2753	AVRG	R		0.708170		ng	1.4121	8	0.0500	0.99	15	
2,4-Dinitrotoluene		0.3627	0.4488	0.4483	0.4589	0.4526	0.4116	0.4565	0.4584	AVRG	R		2.287126		ng	0.4372	8	0.0500	0.99	15	
Diethylphthalate		1.3343	1.5280	1.5056	1.5598	1.4777	1.3341	1.3225	1.2646	AVRG	R		0.706305		ng	1.4158	8	0.0500	0.99	15	
Fluorene	1.2039	1.1763	1.2766	1.2458	1.2189	1.1878	1.0417	1.1156	1.0533m	AVRG	R		0.855517		ng	1.1689	7	0.0500	0.99	15	
4-Chlorophenyl-phenylether		0.6410	0.7242	0.7019	0.6880	0.6507	0.5947	0.5893	0.5623	AVRG	R		1.552781		ng	0.6440	9	0.0500	0.99	15	
4-Nitroaniline		0.1609	0.1774	0.2038	0.2474	0.2836	0.2654	0.2597	0.2639	QUAD	R	4.082449	3.422815	0.006633	ng	0.2328	0.998	0.0500	0.99	15	
4,6-Dinitro-2-methylphenol			0.1127	0.1359	0.1624	0.1731	0.1622	0.1705	0.1620	AVRG	R		6.488032		ng	0.1541	14	0.0500	0.99	15	

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA04 HP GCMS BNA 04 Reviewed By:
Calnum: 534481550001 Name: 6PTBNA4 Type: (normal) Date: 29-NOV-2004 11:53 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	L8	L9	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD
N-Nitrosodiphenylamine		0.4133	0.4509	0.4489	0.4589	0.4623	0.4279	0.4301	0.4157	AVRG	R		2.280525		ng	0.4385	4	0.0500	0.99	15
Azobenzene		0.5682	0.6139	0.5974	0.6324	0.6148	0.5980	0.6104	0.6101	AVRG	R		1.651161		ng	0.6056	3	0.0500	0.99	15
4-Bromophenyl-phenylether		0.2149	0.2394	0.2402	0.2467	0.2430	0.2178	0.2353	0.2427	AVRG	R		4.255202		ng	0.2350	5	0.0500	0.99	15
Hexachlorobenzene		0.2692	0.3018	0.2986	0.3019	0.2778	0.2588	0.2696	0.2733	AVRG	R		3.553810		ng	0.2814	6	0.0500	0.99	15
Pentachlorophenol			0.1460	0.1651	0.1927	0.1953	0.1819	0.1958	0.2009	AVRG	R		5.478736		ng	0.1825	11	0.0500	0.99	15
Phenanthrene	0.9713	0.8711	0.9603	0.9441	0.9900	0.9385	0.8832	0.9101	0.9033	AVRG	R		1.075024		ng	0.9302	4	0.0500	0.99	15
Anthracene	0.9588	0.8962	0.9703	0.9776	0.9810	0.9308	0.8520	0.8680	0.8660	AVRG	R		1.084253		ng	0.9223	6	0.0500	0.99	15
Carbazole		0.7079	0.6535	0.5624	0.6401	0.7416	0.7014	0.7822	0.7683	AVRG	R		1.439514		ng	0.6947	11	0.0500	0.99	15
Di-n-butylphthalate		1.4643	1.6292	1.6393	1.4818	1.3801	1.3088	1.2761	1.2073	AVRG	R		0.702555		ng	1.4234	11	0.0500	0.99	15
Fluoranthene	1.1857	1.0851	1.1845	1.1543	1.1679	1.1596	1.0099	1.0378	1.0164	AVRG	R		0.899887		ng	1.1113	7	0.0500	0.99	15
Benzidine		0.0558	0.0540	0.1178	0.0463	0.0842	0.0432	0.0544	0.0748	AVRG	R		15.08143		ng	0.0663	38 NT	0.0500	0.99	15
Pyrene	1.2596	1.1569	1.2973	1.3110	1.3328	1.2838	1.2166	1.3349	1.4508	AVRG	R		0.772948		ng	1.2937	6	0.0500	0.99	15
Butylbenzylphthalate		0.7150	0.7931	0.8063	0.8061	0.8194	0.7419	0.8003	0.8419	AVRG	R		1.265009		ng	0.7905	5	0.0500	0.99	15
3,3'-Dichlorobenzidine		0.3215	0.2864	0.2910	0.3930	0.3961	0.3463	0.3930	0.3865	AVRG	R		2.843115		ng	0.3517	13	0.0500	0.99	15
Benzo(a)anthracene	1.2991	1.1666	1.2673	1.2681	1.2704	1.2615	1.1378	1.2997m	1.3708m	AVRG	R		0.793559		ng	1.2601	6	0.0500	0.99	15
bis(2-Ethylhexyl)phthalate		1.0695	1.1835	1.2119	1.0515	0.9701	0.8912	1.0022	0.9871	AVRG	R		0.956143		ng	1.0459	10	0.0500	0.99	15
Chrysene	1.1249	1.0207	1.1321	1.1551	1.1499	1.1057	1.0386	1.1357	1.1104m	AVRG	R		0.902421		ng	1.1081	4	0.0500	0.99	15
Di-n-octylphthalate		1.8785	2.2477	2.2822	2.4537	2.6272	2.5578	2.7537	2.9482	AVRG	R		0.405084		ng	2.4686	13	0.0500	0.99	15
Benzo(b)fluoranthene	1.3211m	1.1867m	1.3472m	1.3318m	1.8612	1.8604	1.8343			QUAD	R	2.640563	0.516768	5.451E-5	ng	1.5347	0.998	0.0500	0.99	15
Benzo(k)fluoranthene	1.2892	1.2368	1.3373	1.4449m	1.1048m	1.2593m	1.1504m	1.1303m	1.0587m	AVRG	R		0.817312		ng	1.2235	10	0.0500	0.99	15
Benzo(a)pyrene	1.1146	1.0556	1.1967	1.1867	1.2070	1.2497	1.1687	1.2867	1.2622	AVRG	R		0.838932		ng	1.1920	6	0.0500	0.99	15
Indeno(1,2,3-cd)pyrene	1.2729	1.1896	1.3924	1.3666	1.2665	1.2438	1.1279	1.1076	0.8923	AVRG	R		0.828752		ng	1.2066	13	0.0500	0.99	15
Dibenz(a,h)anthracene	0.9812	0.9287	1.1005	1.0915	1.0314	1.0130	0.9208	0.9202	0.7661	AVRG	R		1.028178		ng	0.9726	11	0.0500	0.99	15
Benzo(g,h,i)perylene	1.0820	0.9833	1.1458	1.1198	0.9843	0.9568	0.8663	0.7998		AVRG	R		1.007813		ng	0.9922	12	0.0500	0.99	15
2-Fluorophenol		0.8936	1.0055	0.9997	1.0319	1.0414	1.0080	1.1005	1.1387	AVRG	R		0.973321		ng	1.0274	7	0.0500	0.99	15
Phenol-d5		1.1077	1.2210	1.2046	1.2566	1.2366	1.1905	1.2635	1.2375	AVRG	R		0.823219		ng	1.2147	4	0.0500	0.99	15
Nitrobenzene-d5		0.2935	0.3159	0.3210	0.3255	0.3171	0.3019	0.3259	0.3293	AVRG	R		3.162043		ng	0.3163	4	0.0500	0.99	15
2-Fluorobiphenyl		1.1518	1.2507	1.2457	1.2597	1.2378	1.0817	1.0392	1.0890	AVRG	R		0.855117		ng	1.1694	8	0.0500	0.99	15
2,4,6-Tribromophenol		0.2301	0.2845	0.2846	0.3055	0.2929	0.2560	0.2824	0.2751	AVRG	R		3.618098		ng	0.2764	8	0.0500	0.99	15
Terphenyl-d14		0.9334	1.0195	1.0423	1.0237	0.9599	0.9139	1.0480	1.1194	AVRG	R		0.992558		ng	1.0075	7	0.0500	0.99	15

Flags used: m=manual integration rsd=ICAL %RSD failure

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Report Date: 30-Nov-2004 10:47

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 11:53 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1856
Misc Info : 2ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:47 target Quant Type: ISTD
Cal Date : 29-NOV-2004 11:53 Cal File: WKT05.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
$ 3 2-Fluorophenol	112	5.518	5.508	(0.796)	11537	2.00000		(aQ)
$ 4 Phenol-d5	99	6.520	6.551	(0.941)	17062	2.00000		(aQ)
5 Phenol	94	6.530	6.571	(0.942)	29715	2.00000		(aQ)
6 Aniline	66	6.530	6.582	(0.942)	9485	2.00000		(aQ)
7 bis(2-Chloroethyl)ether	63	6.632	6.653	(0.957)	10742	2.00000		(aQ)
8 2-Chlorophenol	128	6.704	6.725	(0.968)	18880	2.00000		(aQ)
9 1,3-Dichlorobenzene	146	6.867	6.878	(0.991)	21182	2.00000		(aQ)
* 10 1,4-Dichlorobenzene-d4	152	6.929	6.939	(1.000)	308395	40.0000		(Q)
11 1,4-Dichlorobenzene	146	6.949	6.960	(1.003)	21833	2.00000		(aQ)
12 Benzyl alcohol	108	7.092	7.133	(1.024)	10162	2.00000		(aQ)
13 1,2-Dichlorobenzene	146	7.133	7.133	(1.030)	20668	2.00000		(aQ)
14 2-Methylphenol	107	7.215	7.236	(1.041)	12860	2.00000		(aQ)
15 bis(2-Chloroisopropyl) ether	45	7.235	7.256	(1.044)	36293	2.00000		(a)
16 4-Methylphenol	107	7.399	7.450	(1.068)	17711	2.00000		(aQ)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Report Date: 30-Nov-2004 10:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
	17 N-Nitroso-di-n-propylamine	70	7.399	7.471	(1.068)	8611	2.00000		(aQ)
	18 Hexachloroethane	117	7.512	7.522	(1.084)	9179	2.00000		(aQ)
$	19 Nitrobenzene-d5	82	7.583	7.614	(0.900)	16714	2.00000		(aQ)
	20 Nitrobenzene	77	7.604	7.634	(0.903)	15665	2.00000		(aQ)
	21 Isophorone	82	7.880	7.982	(0.936)	32622	2.00000		(a)
	22 2-Nitrophenol	139	7.982	7.992	(0.948)	11089	2.00000		(aQ)
	23 2,4-Dimethylphenol	122	8.012	8.064	(0.951)	14326	2.00000		(aQ)
	24 bis(2-Chloroethoxy)methane	93	8.125	8.156	(0.965)	21019	2.00000		(aQ)
	25 2,4-Dichlorophenol	162	8.268	8.299	(0.982)	15207	2.00000		(aQ)
	26 Benzoic acid	122	8.012	8.361	(0.951)	14326	2.00000		(aQ)
	27 1,2,4-Trichlorobenzene	180	8.350	8.371	(0.992)	20756	2.00000		(aQ)
*	28 Naphthalene-d8	136	8.421	8.442	(1.000)	1071502	40.0000		
	29 Naphthalene	128	8.452	8.473	(1.004)	55087	2.00000	2.0000	(a)
	30 4-Chloroaniline	127	8.524	8.544	(1.012)	21453	2.00000		(a)
	31 Hexachlorobutadiene	225	8.595	8.606	(1.021)	14398	2.00000		(aQ)
	32 4-Chloro-3-methylphenol	107	9.096	9.127	(1.080)	15025	2.00000		(aQ)
	33 2-Methylnaphthalene	142	9.280	9.301	(1.102)	37659	2.00000	2.0000	(aQ)
	34 Hexachlorocyclopentadiene	237	9.474	9.485	(0.897)	2053	2.00000		(aQ)
	35 2,4,6-Trichlorophenol	196	9.628	9.659	(0.912)	13616	2.00000		(aQ)
	36 2,4,5-Trichlorophenol	196	9.679	9.710	(0.917)	13832	2.00000		(aQ)
$	37 2-Fluorobiphenyl	172	9.720	9.740	(0.921)	46382	2.00000		(aQ)
	38 2-Chloronaphthalene	162	9.873	9.894	(0.935)	35415	2.00000		(aQ)
	39 2-Nitroaniline	65	10.006	10.047	(0.948)	8080	2.00000		(aQ)
	40 Dimethylphthalate	163	10.210	10.252	(0.967)	51291	2.00000		(a)
	41 2,6-Dinitrotoluene	165	10.292	10.354	(0.975)	10782	2.00000		(a)
	42 Acenaphthylene	152	10.374	10.405	(0.983)	56382	2.00000	2.0000	(a)
	43 3-Nitroaniline	138	10.507	10.569	(0.995)	9404	2.00000		(aQ)
*	44 Acenaphthene-d10	164	10.558	10.569	(1.000)	736589	40.0000		(Q)
	45 Acenaphthene	154	10.589	10.620	(1.003)	35377	2.00000	2.0000	(aQ)
	48 Dibenzofuran	168	10.793	10.824	(1.022)	53708	2.00000		(aQ)
	49 2,4-Dinitrotoluene	165	10.793	10.855	(1.022)	14258	2.00000		(aQ)
	50 Diethylphthalate	149	11.059	11.131	(1.047)	53971	2.00000		(a)
	51 4-Chlorophenyl-phenylether	204	11.202	11.233	(1.061)	24499	2.00000		(aQ)
	52 Fluorene	166	11.212	11.254	(1.062)	44340	2.00000	2.0000	(aQ)
	53 4-Nitroaniline	138	11.253	11.366	(1.066)	6485	2.00000		(aQ)
	55 N-Nitrosodiphenylamine	169	11.345	11.407	(0.917)	29521	2.00000		(aQ)
	56 Azobenzene	77	11.396	11.438	(0.921)	38919	2.00000		(aQ)
$	57 2,4,6-Tribromophenol	330	11.519	11.550	(1.091)	9163	2.00000		(aQ)
	58 4-Bromophenyl-phenylether	248	11.795	11.826	(0.954)	14191	2.00000		(aQ)
	59 Hexachlorobenzene	284	11.897	11.938	(0.962)	18929	2.00000		(aQ)
	60 Pentachlorophenol	266	12.153	12.174	(0.983)	2497	2.00000		(aQ)
*	61 Phenanthrene-d10	188	12.368	12.388	(1.000)	1301308	40.0000		
	62 Phenanthrene	178	12.388	12.429	(1.002)	63200	2.00000	2.0000	(a)
	63 Anthracene	178	12.449	12.491	(1.007)	62387	2.00000	2.0000	(a)
	64 Carbazole	167	12.644	12.685	(1.022)	53215	2.00000		(a)
	65 Di-n-butylphthalate	149	13.042	13.074	(1.055)	105243	2.00000		(a)
	66 Fluoranthene	202	13.840	13.871	(1.119)	77150	2.00000	2.0000	(a)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Report Date: 30-Nov-2004 10:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
67 Benzidine	184	13.993	14.014	(0.891)	7521	2.00000	(a)
68 Pyrene	202	14.116	14.157	(0.899)	79002	2.00000	2.0000(a)
$ 69 Terphenyl-d14	244	14.290	14.321	(0.910)	65435	2.00000	(a)
70 Butylbenzylphthalate	149	14.872	14.903	(0.947)	47374	2.00000	(aQ)
71 3,3'-Dichlorobenzidine	252	15.629	15.690	(0.995)	20698	2.00000	(aQ)
73 Benzo(a)anthracene	228	15.670	15.711	(0.998)	81483	2.00000	2.0000(a)
* 74 Chrysene-d12	240	15.700	15.742	(1.000)	1254432	40.0000	
75 Chrysene	228	15.731	15.793	(1.002)	70558	2.00000	2.0000(a)
76 Di-n-octylphthalate	149	16.702	16.743	(0.910)	110603	2.00000	(a)
77 Benzo(b)fluoranthene	252	17.500	17.613	(0.954)	74305	2.00000	2.0000(aM)
78 Benzo(k)fluoranthene	252	17.561	17.674	(0.957)	72511	2.00000	2.0000(aA)
79 Benzo(a)pyrene	252	18.185	18.277	(0.991)	62695	2.00000	2.0000(a)
* 80 Perylene-d12	264	18.348	18.389	(1.000)	1124934	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.955	21.129	(1.142)	71596	2.00000	2.0000(a)
82 Dibenz(a,h)anthracene	278	21.006	21.170	(1.145)	55191	2.00000	2.0000(a)
83 Benzo(g,h,i)perylene	276	21.681	21.835	(1.182)	60857	2.00000	2.0000(a)

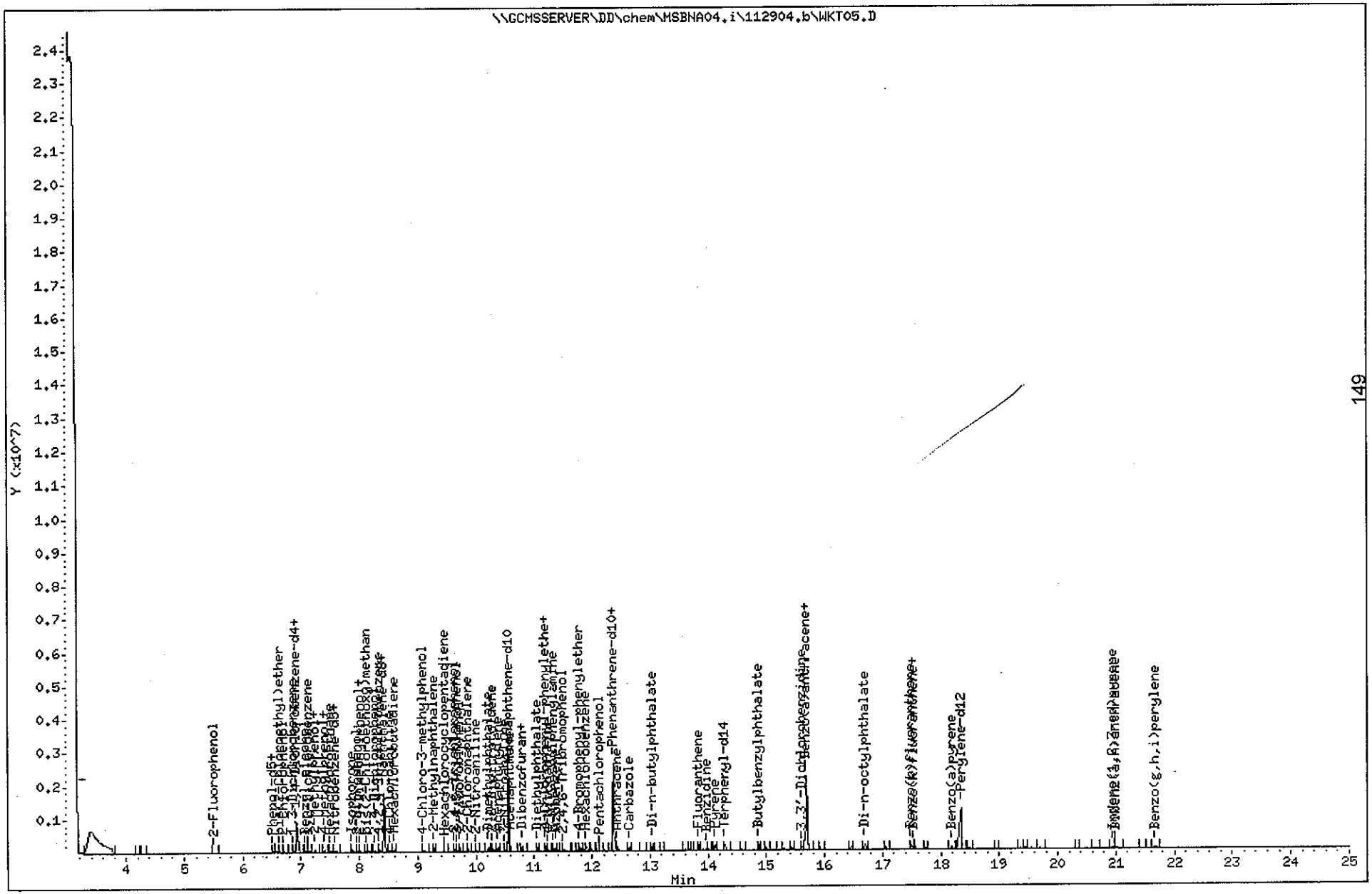
Letter/order for PAHD

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT05.D
Date : 29-NOV-2004 11:53
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1856
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Report Date: 30-Nov-2004 10:47

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 12:28 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1908
Misc Info : 5ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:47 target Quant Type: ISTD
Cal Date : 29-NOV-2004 12:28 Cal File: WKT06.D
Als bottle: 4 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.190	4.179	(0.605)	20713	5.00000	5.0000(QM)
2 Pyridine	79	4.231	4.199	(0.611)	33402	5.00000	5.0000(M)
$ 3 2-Fluorophenol	112	5.509	5.508	(0.795)	39723	5.00000	5.0000(Q)
$ 4 Phenol-d5	99	6.521	6.551	(0.941)	49239	5.00000	5.0000(Q)
5 Phenol	94	6.531	6.571	(0.942)	56280	5.00000	5.0000(Q)
6 Aniline	66	6.572	6.582	(0.948)	27699	5.00000	5.0000(QMH)
7 bis(2-Chloroethyl)ether	63	6.623	6.653	(0.956)	34740	5.00000	5.0000(QM)
8 2-Chlorophenol	128	6.705	6.725	(0.968)	51134	5.00000	5.0000(Q)
9 1,3-Dichlorobenzene	146	6.869	6.878	(0.991)	60436	5.00000	5.0000(Q)
* 10 1,4-Dichlorobenzene-d4	152	6.930	6.939	(1.000)	355606	40.0000	(Q)
11 1,4-Dichlorobenzene	146	6.951	6.960	(1.003)	60593	5.00000	5.0000(Q)
12 Benzyl alcohol	108	7.094	7.133	(1.024)	29688	5.00000	5.0000(Q)
13 1,2-Dichlorobenzene	146	7.124	7.133	(1.028)	58388	5.00000	5.0000(Q)
14 2-Methylphenol	107	7.216	7.236	(1.041)	34998	5.00000	5.0000(Q)

Metabolites 2 PWD

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Report Date: 30-Nov-2004 10:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.237	7.256	(1.044)	93118	5.00000	5.0000
	16 4-Methylphenol	107	7.390	7.450	(1.066)	54423	5.00000	5.0000(Q)
	17 N-Nitroso-di-n-propylamine	70	7.400	7.471	(1.068)	26564	5.00000	5.0000(Q)
	18 Hexachloroethane	117	7.513	7.522	(1.084)	26098	5.00000	5.0000(Q)
$	19 Nitrobenzene-d5	82	7.584	7.614	(0.900)	47420	5.00000	5.0000(Q)
	20 Nitrobenzene	77	7.605	7.634	(0.903)	44934	5.00000	5.0000(Q)
	21 Isophorone	82	7.881	7.982	(0.936)	91380	5.00000	5.0000
	22 2-Nitrophenol	139	7.983	7.992	(0.948)	33176	5.00000	5.0000(Q)
	23 2,4-Dimethylphenol	122	8.014	8.064	(0.951)	37835	5.00000	5.0000(Q)
	24 bis(2-Chloroethoxy)methane	93	8.116	8.156	(0.964)	59811	5.00000	5.0000(Q)
	25 2,4-Dichlorophenol	162	8.259	8.299	(0.981)	47161	5.00000	5.0000(Q)
	26 Benzoic acid	122	8.167	8.361	(0.970)	1785	5.00000	5.0000(QMH)
	27 1,2,4-Trichlorobenzene	180	8.351	8.371	(0.992)	58604	5.00000	5.0000(Q)
*	28 Naphthalene-d8	136	8.423	8.442	(1.000)	1292479	40.0000	
	29 Naphthalene	128	8.443	8.473	(1.002)	151605	5.00000	4.7715(a)
	30 4-Chloroaniline	127	8.525	8.544	(1.012)	54898	5.00000	5.0000(Q)
	31 Hexachlorobutadiene	225	8.596	8.606	(1.021)	39825	5.00000	5.0000(Q)
	32 4-Chloro-3-methylphenol	107	9.097	9.127	(1.080)	43939	5.00000	5.0000(Q)
	33 2-Methylnaphthalene	142	9.281	9.301	(1.102)	111389	5.00000	4.9516(aQ)
	34 Hexachlorocyclopentadiene	237	9.476	9.485	(0.897)	12957	5.00000	(aQ)
	35 2,4,6-Trichlorophenol	196	9.629	9.659	(0.912)	38466	5.00000	5.0000(Q)
	36 2,4,5-Trichlorophenol	196	9.680	9.710	(0.917)	41349	5.00000	5.0000(Q)
$	37 2-Fluorobiphenyl	172	9.721	9.740	(0.921)	127901	5.00000	5.0000(Q)
	38 2-Chloronaphthalene	162	9.874	9.894	(0.935)	99634	5.00000	5.0000(Q)
	39 2-Nitroaniline	65	10.007	10.047	(0.948)	27067	5.00000	5.0000(aQ)
	40 Dimethylphthalate	163	10.212	10.252	(0.967)	149255	5.00000	5.0000
	41 2,6-Dinitrotoluene	165	10.294	10.354	(0.975)	31666	5.00000	5.0000(Q)
	42 Acenaphthylene	152	10.375	10.405	(0.983)	169926	5.00000	4.9988(a)
	43 3-Nitroaniline	138	10.508	10.569	(0.995)	28258	5.00000	5.0000(aQ)
*	44 Acenaphthene-d10	164	10.559	10.569	(1.000)	888378	40.0000	(Q)
	45 Acenaphthene	154	10.590	10.620	(1.003)	94665	5.00000	4.7019(aQ)
	46 2,4-Dinitrophenol	184	10.662	10.692	(1.010)	1748	5.00000	(aM)
	47 4-Nitrophenol	109	10.723	10.794	(1.015)	8716	5.00000	(aQ)
	48 Dibenzofuran	168	10.795	10.824	(1.022)	151024	5.00000	5.0000(Q)
	49 2,4-Dinitrotoluene	165	10.795	10.855	(1.022)	40277	5.00000	5.0000(Q)
	50 Diethylphthalate	149	11.060	11.131	(1.047)	148171	5.00000	5.0000
	51 4-Chlorophenyl-phenylether	204	11.203	11.233	(1.061)	71185	5.00000	5.0000(Q)
	52 Fluorene	166	11.214	11.254	(1.062)	130627	5.00000	4.9420(aQ)
	53 4-Nitroaniline	138	11.255	11.366	(1.066)	17866	5.00000	5.0000(aQ)
	54 4,6-Dinitro-2-methylphenol	198	11.295	11.377	(0.913)	12497	5.00000	(aQ)
	55 N-Nitrosodiphenylamine	169	11.347	11.407	(0.917)	81665	5.00000	5.0000(Q)
	56 Azobenzene	77	11.398	11.438	(0.921)	112272	5.00000	5.0000(Q)
$	57 2,4,6-Tribromophenol	330	11.510	11.550	(1.090)	25555	5.00000	5.0000(Q)
	58 4-Bromophenyl-phenylether	248	11.796	11.826	(0.954)	42466	5.00000	5.0000(Q)
	59 Hexachlorobenzene	284	11.899	11.938	(0.962)	53198	5.00000	5.0000(Q)
	60 Pentachlorophenol	266	12.144	12.174	(0.982)	18807	5.00000	(aQ)
*	61 Phenanthrene-d10	188	12.369	12.388	(1.000)	1580771	40.0000	

Water only & PWD

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Report Date: 30-Nov-2004 10:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.389	12.429	(1.002)	172126	5.00000	4.7279(a)
63 Anthracene	178	12.451	12.491	(1.007)	177092	5.00000	4.8312(a)
64 Carbazole	167	12.645	12.685	(1.022)	139887	5.00000	5.0000
65 Di-n-butylphthalate	149	13.044	13.074	(1.055)	289349	5.00000	5.0000
66 Fluoranthene	202	13.841	13.871	(1.119)	214418	5.00000	4.7785(a)
67 Benzidine	184	13.994	14.014	(0.891)	10525	5.00000	5.0000
68 Pyrene	202	14.117	14.157	(0.899)	218306	5.00000	4.7876(a)
$ 69 Terphenyl-d14	244	14.291	14.321	(0.910)	176118	5.00000	5.0000
70 Butylbenzylphthalate	149	14.874	14.903	(0.947)	134908	5.00000	5.0000(Q)
71 3,3'-Dichlorobenzidine	252	15.630	15.690	(0.995)	60668	5.00000	5.0000(aQ)
72 bis(2-Ethylhexyl)phthalate	149	15.661	15.690	(0.997)	201801	5.00000	5.0000
73 Benzo(a)anthracene	228	15.671	15.711	(0.998)	220124	5.00000	4.7312(a)
* 74 Chrysene-d12	240	15.702	15.742	(1.000)	1509537	40.0000	
75 Chrysene	228	15.732	15.793	(1.002)	192605	5.00000	4.7571(a)
76 Di-n-octylphthalate	149	16.704	16.743	(0.910)	318410	5.00000	5.0000
77 Benzo(b)fluoranthene	252	17.511	17.613	(0.954)	201153	5.00000	5.0000(M)
78 Benzo(k)fluoranthene	252	17.562	17.674	(0.957)	209651	5.00000	4.8964(aA)
79 Benzo(a)pyrene	252	18.186	18.277	(0.991)	178927	5.00000	4.8639(a)
* 80 Perylene-d12	264	18.350	18.389	(1.000)	1356035	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.957	21.129	(1.142)	201634	5.00000	4.8307(a)
82 Dibenz(a,h)anthracene	278	21.008	21.170	(1.145)	157414	5.00000	4.8624(a)
83 Benzo(g,h,i)perylene	276	21.693	21.835	(1.182)	166679	5.00000	4.7612(a)

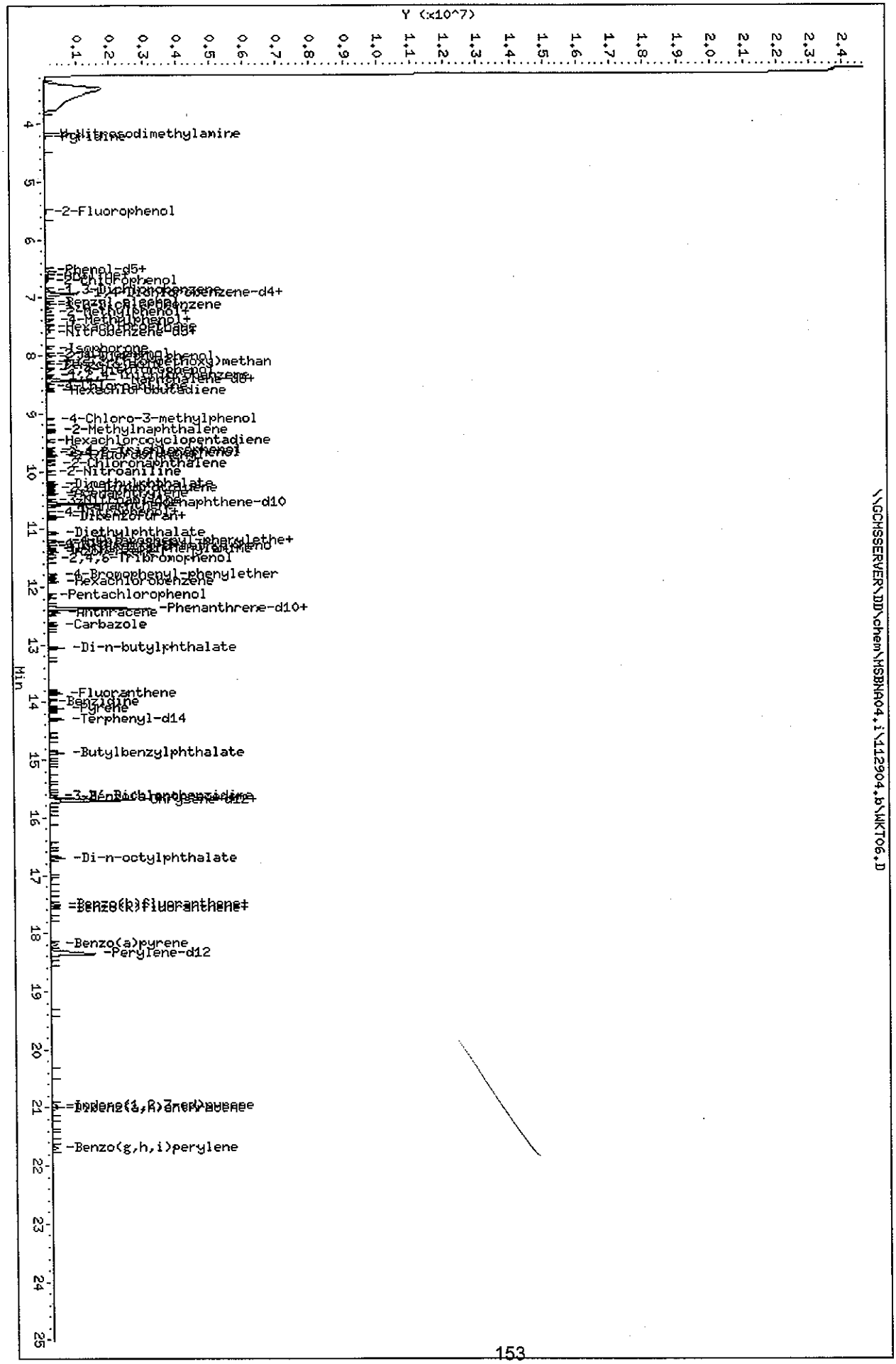
WKT 11/30/03 & for RND

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT06.D
Date : 29-NOV-2004 12:28
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1908
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Report Date: 30-Nov-2004 10:48

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 13:04 MS Autotune Date: 15-AUG-2002 14:1 7
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1857
Misc Info : 10ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:47 target Quant Type: ISTD
Cal Date : 29-NOV-2004 13:04 Cal File: WKT07.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.175	4.179	(0.602)	46136	10.0000	10.4022(QM)
2 Pyridine	79	4.216	4.199	(0.608)	72946	10.0000	10.3037(QM)
$ 3 2-Fluorophenol	112	5.514	5.508	(0.795)	91850	10.0000	10.5887(Q)
$ 4 Phenol-d5	99	6.516	6.551	(0.940)	111539	10.0000	10.4863(Q)
5 Phenol	94	6.526	6.571	(0.941)	125307	10.0000	10.4002(Q)
6 Aniline	66	6.567	6.582	(0.947)	64451	10.0000	10.6200(QMH)
7 bis(2-Chloroethyl)ether	63	6.628	6.653	(0.956)	77349	10.0000	10.4002(Q)
8 2-Chlorophenol	128	6.700	6.725	(0.966)	113388	10.0000	10.3799(Q)
9 1,3-Dichlorobenzene	146	6.874	6.878	(0.991)	129290	10.0000	10.2006(Q)
* 10 1,4-Dichlorobenzene-d4	152	6.935	6.939	(1.000)	365408	40.0000	(Q)
11 1,4-Dichlorobenzene	146	6.945	6.960	(1.001)	127903	10.0000	10.1337(Q)
12 Benzyl alcohol	108	7.088	7.133	(1.022)	66310	10.0000	10.4160(Q)
13 1,2-Dichlorobenzene	146	7.129	7.133	(1.028)	124910	10.0000	10.2006(Q)
14 2-Methylphenol	107	7.211	7.236	(1.040)	76172	10.0000	10.2867(Q)

11/30/04 PWD

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Report Date: 30-Nov-2004 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.242	7.256	(1.044)	209843	10.0000	10.4604
	16 4-Methylphenol	107	7.395	7.450	(1.066)	112895	10.0000	10.0466(Q)
	17 N-Nitroso-di-n-propylamine	70	7.395	7.471	(1.066)	60472	10.0000	10.5109(Q)
	18 Hexachloroethane	117	7.518	7.522	(1.084)	56424	10.0000	10.2534(Q)
$	19 Nitrobenzene-d5	82	7.579	7.614	(0.899)	104353	10.0000	10.3670(Q)
	20 Nitrobenzene	77	7.599	7.634	(0.902)	98974	10.0000	10.3716(Q)
	21 Isophorone	82	7.876	7.982	(0.934)	211171	10.0000	10.6109
	22 2-Nitrophenol	139	7.978	7.992	(0.947)	72432	10.0000	10.3275(Q)
	23 2,4-Dimethylphenol	122	8.019	8.064	(0.951)	75521	10.0000	9.8794(Q)
	24 bis(2-Chloroethoxy)methane	93	8.121	8.156	(0.964)	130600	10.0000	10.3281(Q)
	25 2,4-Dichlorophenol	162	8.264	8.299	(0.981)	107480	10.0000	10.5416(Q)
	26 Benzoic acid	122	8.141	8.361	(0.966)	13194	10.0000	10.0000(Q)
	27 1,2,4-Trichlorobenzene	180	8.356	8.371	(0.992)	131122	10.0000	10.4498(Q)
*	28 Naphthalene-d8	136	8.428	8.442	(1.000)	1321420	40.0000	
	29 Naphthalene	128	8.448	8.473	(1.002)	338070	10.0000	10.2679
	30 4-Chloroaniline	127	8.520	8.544	(1.011)	108951	10.0000	9.8506(Q)
	31 Hexachlorobutadiene	225	8.591	8.606	(1.019)	85534	10.0000	10.2455(Q)
	32 4-Chloro-3-methylphenol	107	9.102	9.127	(1.080)	93447	10.0000	10.1964(Q)
	33 2-Methylnaphthalene	142	9.276	9.301	(1.101)	240733	10.0000	10.3066(Q)
	34 Hexachlorocyclopentadiene	237	9.470	9.485	(0.897)	43240	10.0000	10.0000(Q)
	35 2,4,6-Trichlorophenol	196	9.634	9.659	(0.913)	92187	10.0000	10.8616(Q)
	36 2,4,5-Trichlorophenol	196	9.675	9.710	(0.917)	93780	10.0000	10.5874(Q)
$	37 2-Fluorobiphenyl	172	9.726	9.740	(0.922)	280034	10.0000	10.4116(Q)
	38 2-Chloronaphthalene	162	9.869	9.894	(0.935)	227659	10.0000	10.6244(Q)
	39 2-Nitroaniline	65	10.012	10.047	(0.949)	62961	10.0000	10.7133(aQ)
	40 Dimethylphthalate	163	10.217	10.252	(0.968)	333980	10.0000	10.5202
	41 2,6-Dinitrotoluene	165	10.298	10.354	(0.976)	75824	10.0000	10.8573(Q)
	42 Acenaphthylene	152	10.380	10.405	(0.984)	374250	10.0000	10.5953
	43 3-Nitroaniline	138	10.523	10.569	(0.997)	49082	10.0000	9.2555(aQ)
*	44 Acenaphthene-d10	164	10.554	10.569	(1.000)	895635	40.0000	(Q)
	45 Acenaphthene	154	10.595	10.620	(1.004)	215454	10.0000	10.4015(Q)
	46 2,4-Dinitrophenol	184	10.646	10.692	(1.009)	19976	10.0000	(aQ)
	47 4-Nitrophenol	109	10.728	10.794	(1.016)	26908	10.0000	(aQ)
	48 Dibenzofuran	168	10.799	10.824	(1.023)	345913	10.0000	10.6364(Q)
	49 2,4-Dinitrotoluene	165	10.799	10.855	(1.023)	100492	10.0000	11.0610(Q)
	50 Diethylphthalate	149	11.075	11.131	(1.049)	342126	10.0000	10.6766
	51 4-Chlorophenyl-phenylether	204	11.208	11.233	(1.062)	162159	10.0000	10.6093(Q)
	52 Fluorene	166	11.219	11.254	(1.063)	285840	10.0000	10.4729(Q)
	53 4-Nitroaniline	138	11.270	11.366	(1.068)	39726	10.0000	10.0000(aQ)
	54 4,6-Dinitro-2-methylphenol	198	11.300	11.377	(0.913)	46089	10.0000	10.0000(aQ)
	55 N-Nitrosodiphenylamine	169	11.351	11.407	(0.917)	184344	10.0000	10.4346(Q)
	56 Azobenzene	77	11.403	11.438	(0.922)	251019	10.0000	10.3868(Q)
$	57 2,4,6-Tribromophenol	330	11.515	11.550	(1.091)	63704	10.0000	11.0566(Q)
	58 4-Bromophenyl-phenylether	248	11.801	11.826	(0.954)	97902	10.0000	10.5398(Q)
	59 Hexachlorobenzene	284	11.904	11.938	(0.962)	123406	10.0000	10.5707(Q)
	60 Pentachlorophenol	266	12.149	12.174	(0.982)	59698	10.0000	10.0000(aQ)
*	61 Phenanthrene-d10	188	12.374	12.388	(1.000)	1635519	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Report Date: 30-Nov-2004 10:48

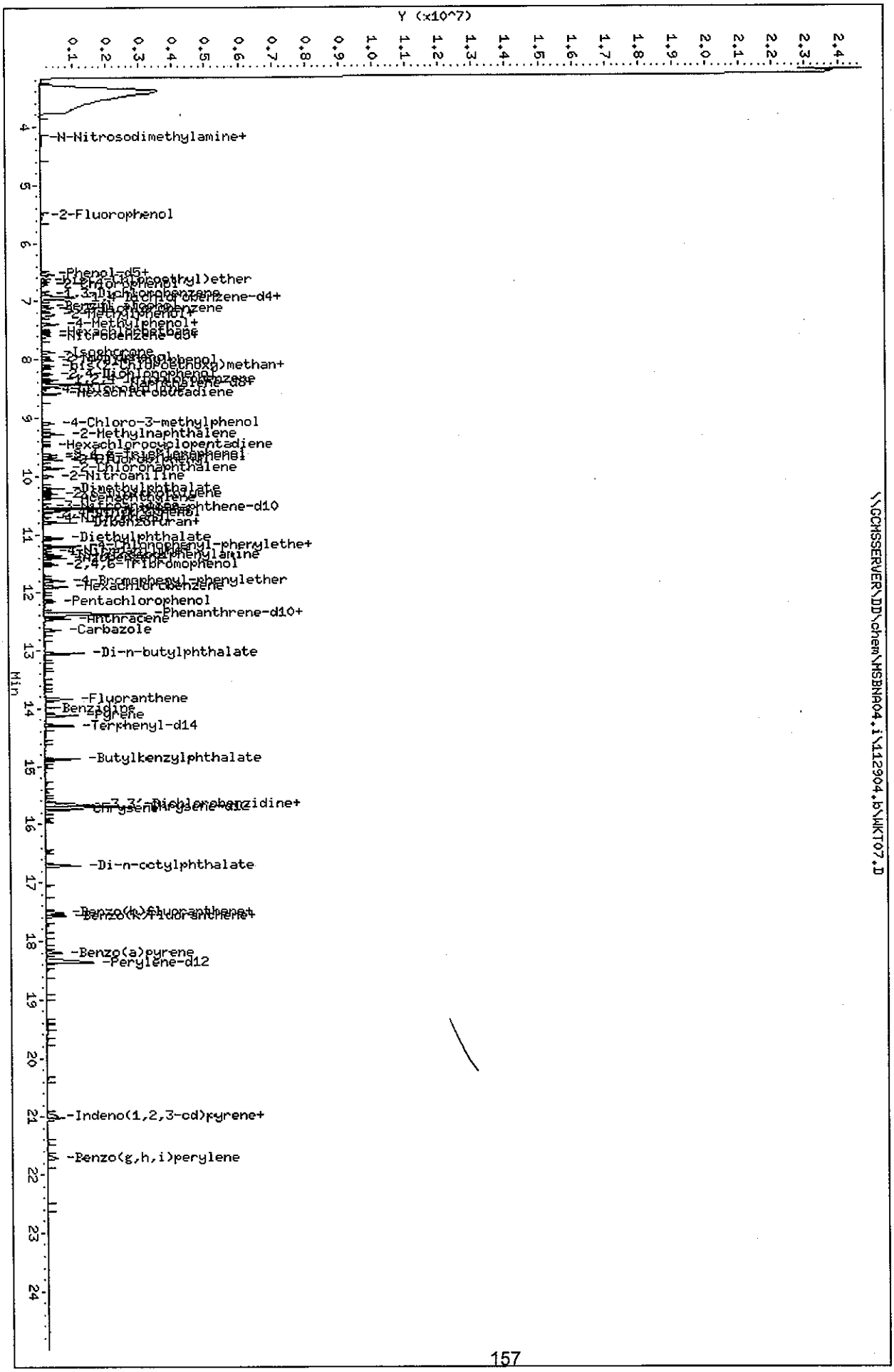
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.394	12.429	(1.002)	392643	10.0000	10.2788
63 Anthracene	178	12.456	12.491	(1.007)	396743	10.0000	10.3028
64 Carbazole	167	12.650	12.685	(1.022)	267188	10.0000	9.5998
65 Di-n-butylphthalate	149	13.049	13.074	(1.055)	666150	10.0000	10.5329
66 Fluoranthene	202	13.846	13.871	(1.119)	484327	10.0000	10.2841
67 Benzidine	184	13.999	14.014	(0.891)	20999	10.0000	9.8358(Q)
68 Pyrene	202	14.122	14.157	(0.899)	504698	10.0000	10.4795
$ 69 Terphenyl-d14	244	14.296	14.321	(0.910)	396611	10.0000	10.4409
70 Butylbenzylphthalate	149	14.879	14.903	(0.947)	308556	10.0000	10.5183(Q)
71 3,3'-Dichlorobenzidine	252	15.635	15.690	(0.995)	111403	10.0000	9.4215(aQ)
72 bis(2-Ethylhexyl)phthalate	149	15.656	15.690	(0.997)	460425	10.0000	10.5061
73 Benzo(a)anthracene	228	15.676	15.711	(0.998)	493011	10.0000	10.1843
* 74 Chrysene-d12	240	15.707	15.742	(1.000)	1556139	40.0000	
75 Chrysene	228	15.737	15.793	(1.002)	440408	10.0000	10.3613
76 Di-n-octylphthalate	149	16.709	16.743	(0.910)	783346	10.0000	10.8947
77 Benzo(b)fluoranthene	252	17.526	17.613	(0.954)	469511	10.0000	10.0000(M)
78 Benzo(k)fluoranthene	252	17.578	17.674	(0.957)	466072	10.0000	10.3846(A)
79 Benzo(a)pyrene	252	18.201	18.277	(0.991)	417053	10.0000	10.6625
* 80 Perylene-d12	264	18.365	18.389	(1.000)	1394068	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	20.982	21.129	(1.143)	485264	10.0000	10.8360
82 Dibenz(a,h)anthracene	278	21.033	21.170	(1.145)	383558	10.0000	10.9672
83 Benzo(g,h,i)perylene	276	21.718	21.835	(1.183)	399322	10.0000	10.7046

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT07.D
Date : 29-NOV-2004 13:04
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1857
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Report Date: 30-Nov-2004 10:48

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 13:39 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1858
Misc Info : 20ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:48 target Quant Type: ISTD
Cal Date : 29-NOV-2004 13:39 Cal File: WKT08.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.174	4.179	(0.602)	94287	20.0000	20.2730(QM)
	2 Pyridine	79	4.195	4.199	(0.605)	146617	20.0000	19.9233(QM)
$	3 2-Fluorophenol	112	5.513	5.508	(0.795)	190222	20.0000	20.6920(Q)
$	4 Phenol-d5	99	6.515	6.551	(0.940)	229202	20.0000	20.4551(Q)
	5 Phenol	94	6.536	6.571	(0.943)	263539	20.0000	20.6572(Q)
	6 Aniline	66	6.566	6.582	(0.947)	143783	20.0000	21.7522(QMH)
	7 bis(2-Chloroethyl)ether	63	6.628	6.653	(0.956)	160382	20.0000	20.4653(Q)
	8 2-Chlorophenol	128	6.699	6.725	(0.966)	237725	20.0000	20.5883(Q)
	9 1,3-Dichlorobenzene	146	6.873	6.878	(0.991)	270672	20.0000	20.3338(Q)
*	10 1,4-Dichlorobenzene-d4	152	6.935	6.939	(1.000)	380560	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	6.955	6.960	(1.003)	271628	20.0000	20.4379(Q)
	12 Benzyl alcohol	108	7.098	7.133	(1.024)	140428	20.0000	20.7717(Q)
	13 1,2-Dichlorobenzene	146	7.129	7.133	(1.028)	251654	20.0000	19.8211(Q)
	14 2-Methylphenol	107	7.221	7.236	(1.041)	160800	20.0000	20.5592(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Report Date: 30-Nov-2004 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.241	7.256	(1.044)	422220	20.0000	20.1389
	16 4-Methylphenol	107	7.395	7.450	(1.066)	247686	20.0000	20.7614(Q)
	17 N-Nitroso-di-n-propylamine	70	7.405	7.471	(1.068)	122785	20.0000	20.3254(Q)
	18 Hexachloroethane	117	7.517	7.522	(1.084)	115386	20.0000	20.0886(Q)
$	19 Nitrobenzene-d5	82	7.579	7.614	(0.899)	218645	20.0000	20.7020(Q)
	20 Nitrobenzene	77	7.609	7.634	(0.903)	200823	20.0000	20.2749(Q)
	21 Isophorone	82	7.885	7.982	(0.936)	424984	20.0000	20.4717
	22 2-Nitrophenol	139	7.977	7.992	(0.947)	155178	20.0000	20.9527(Q)
	23 2,4-Dimethylphenol	122	8.018	8.064	(0.951)	167427	20.0000	20.8146(Q)
	24 bis(2-Chloroethoxy)methane	93	8.131	8.156	(0.965)	265299	20.0000	20.2340(Q)
	25 2,4-Dichlorophenol	162	8.264	8.299	(0.981)	221569	20.0000	20.7083(Q)
	26 Benzoic acid	122	8.161	8.361	(0.968)	29016	20.0000	20.0000(Q)
	27 1,2,4-Trichlorobenzene	180	8.356	8.371	(0.992)	266262	20.0000	20.3864(Q)
*	28 Naphthalene-d8	136	8.427	8.442	(1.000)	1362155	40.0000	
	29 Naphthalene	128	8.458	8.473	(1.004)	683789	20.0000	20.1101
	30 4-Chloroaniline	127	8.519	8.544	(1.011)	246155	20.0000	21.0327
	31 Hexachlorobutadiene	225	8.601	8.606	(1.021)	178911	20.0000	20.5196(Q)
	32 4-Chloro-3-methylphenol	107	9.102	9.127	(1.080)	194846	20.0000	20.4122(Q)
	33 2-Methylnaphthalene	142	9.286	9.301	(1.102)	501015	20.0000	20.6005(Q)
	34 Hexachlorocyclopentadiene	237	9.470	9.485	(0.896)	111197	20.0000	22.1810(Q)
	35 2,4,6-Trichlorophenol	196	9.633	9.659	(0.912)	195466	20.0000	21.4740(Q)
	36 2,4,5-Trichlorophenol	196	9.674	9.710	(0.916)	203617	20.0000	21.4485(Q)
$	37 2-Fluorobiphenyl	172	9.725	9.740	(0.921)	576226	20.0000	20.4877(Q)
	38 2-Chloronaphthalene	162	9.879	9.894	(0.935)	464486	20.0000	20.6463(Q)
	39 2-Nitroaniline	65	10.012	10.047	(0.948)	126364	20.0000	20.5368(aQ)
	40 Dimethylphthalate	163	10.226	10.252	(0.968)	669009	20.0000	20.2658
	41 2,6-Dinitrotoluene	165	10.308	10.354	(0.976)	155191	20.0000	20.9840(Q)
	42 Acenaphthylene	152	10.380	10.405	(0.983)	774762	20.0000	20.9119
	43 3-Nitroaniline	138	10.533	10.569	(0.997)	109356	20.0000	19.9759(aQ)
*	44 Acenaphthene-d10	164	10.564	10.569	(1.000)	925142	40.0000	(Q)
	45 Acenaphthene	154	10.594	10.620	(1.003)	434221	20.0000	20.2200(Q)
	46 2,4-Dinitrophenol	184	10.646	10.692	(1.008)	55618	20.0000	20.0000(aQ)
	47 4-Nitrophenol	109	10.727	10.794	(1.015)	62865	20.0000	20.0000(aQ)
	48 Dibenzofuran	168	10.799	10.824	(1.022)	700508	20.0000	20.5606(Q)
	49 2,4-Dinitrotoluene	165	10.799	10.855	(1.022)	207349	20.0000	21.3494(Q)
	50 Diethylphthalate	149	11.075	11.131	(1.048)	696440	20.0000	20.6817
	51 4-Chlorophenyl-phenylether	204	11.208	11.233	(1.061)	324686	20.0000	20.3732(Q)
	52 Fluorene	166	11.218	11.254	(1.062)	576292	20.0000	20.3291(Q)
	53 4-Nitroaniline	138	11.279	11.366	(1.068)	94285	20.0000	20.0000(aQ)
	54 4,6-Dinitro-2-methylphenol	198	11.310	11.377	(0.914)	111491	20.0000	21.8655(aQ)
	55 N-Nitrosodiphenylamine	169	11.361	11.407	(0.918)	368249	20.0000	20.5129(Q)
	56 Azobenzene	77	11.402	11.438	(0.922)	490059	20.0000	20.1426(Q)
$	57 2,4,6-Tribromophenol	330	11.525	11.550	(1.091)	131626	20.0000	21.3631(Q)
	58 4-Bromophenyl-phenylether	248	11.811	11.826	(0.955)	197072	20.0000	20.7522(Q)
	59 Hexachlorobenzene	284	11.913	11.938	(0.963)	244929	20.0000	20.6006(Q)
	60 Pentachlorophenol	266	12.148	12.174	(0.982)	135452	20.0000	21.2289(aQ)
*	61 Phenanthrene-d10	188	12.373	12.388	(1.000)	1640639	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Report Date: 30-Nov-2004 10:48

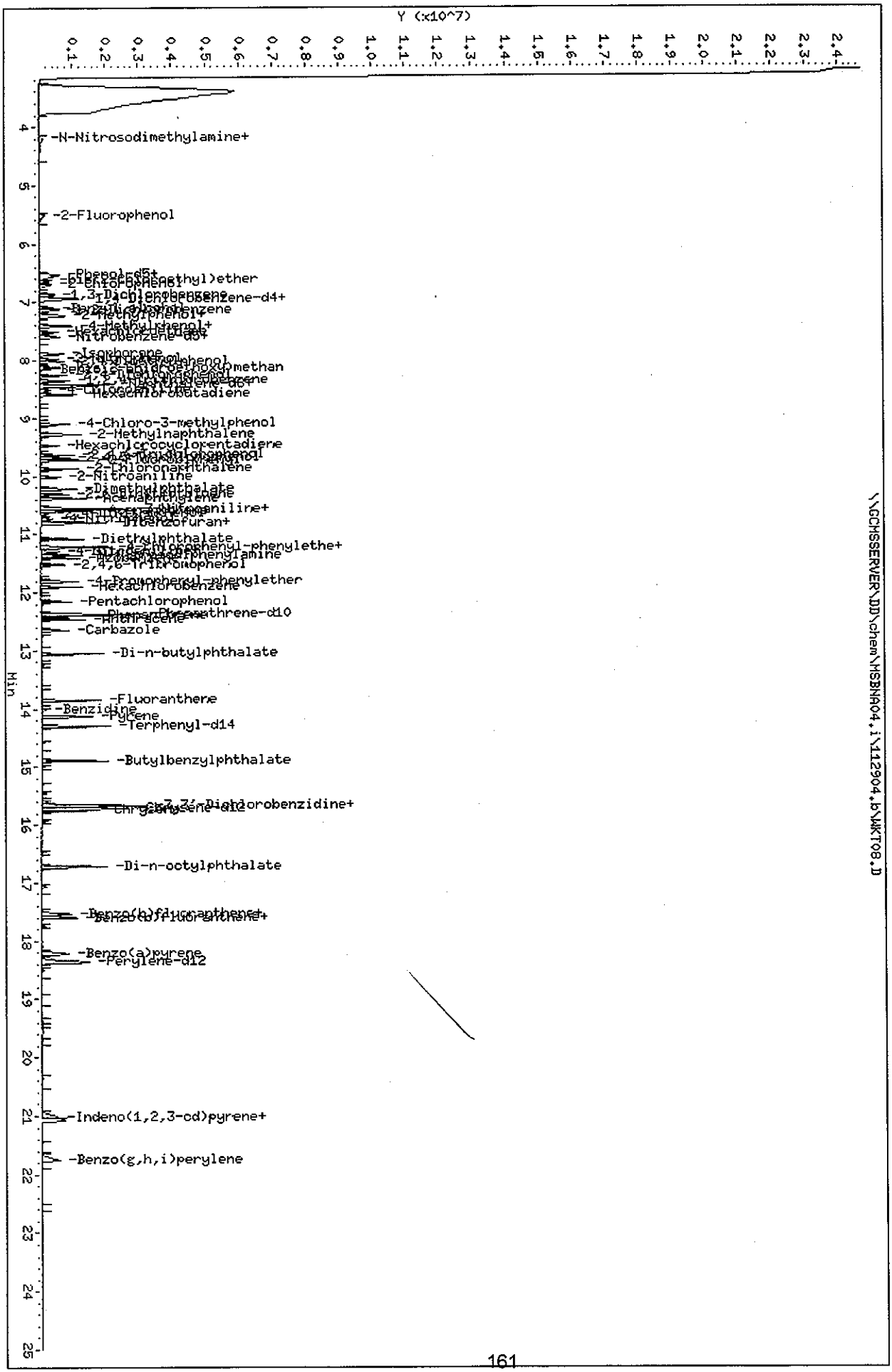
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.404	12.429	(1.002)	774449	20.0000	20.1576
63 Anthracene	178	12.465	12.491	(1.007)	801939	20.0000	20.5648
64 Carbazole	167	12.649	12.685	(1.022)	461326	20.0000	17.5396
65 Di-n-butylphthalate	149	13.058	13.074	(1.055)	1344738	20.0000	20.7818
66 Fluoranthene	202	13.846	13.871	(1.119)	946923	20.0000	20.0330
67 Benzidine	184	14.009	14.014	(0.891)	88698	20.0000	31.0569
68 Pyrene	202	14.132	14.157	(0.899)	987390	20.0000	20.8729
$ 69 Terphenyl-d14	244	14.295	14.321	(0.910)	784961	20.0000	20.8793
70 Butylbenzylphthalate	149	14.888	14.903	(0.947)	607222	20.0000	20.9024(Q)
71 3,3'-Dichlorobenzidine	252	15.645	15.690	(0.995)	219198	20.0000	19.4264(Q)
72 bis(2-Ethylhexyl)phthalate	149	15.665	15.690	(0.997)	912705	20.0000	20.9858
73 Benzo(a)anthracene	228	15.686	15.711	(0.998)	955081	20.0000	20.2858
* 74 Chrysene-d12	240	15.716	15.742	(1.000)	1506261	40.0000	
75 Chrysene	228	15.747	15.793	(1.002)	869925	20.0000	20.8459
76 Di-n-octylphthalate	149	16.718	16.743	(0.910)	1527452	20.0000	21.3676
77 Benzo(b)fluoranthene	252	17.536	17.613	(0.955)	891339	20.0000	19.9709(M)
78 Benzo(k)fluoranthene	252	17.597	17.674	(0.958)	967052	20.0000	21.7758(AM)
79 Benzo(a)pyrene	252	18.221	18.277	(0.992)	794266	20.0000	20.8488
* 80 Perylene-d12	264	18.364	18.389	(1.000)	1338593	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.012	21.129	(1.144)	914671	20.0000	20.9385
82 Dibenz(a,h)anthracene	278	21.063	21.170	(1.147)	730531	20.0000	21.2873
83 Benzo(g,h,i)perylene	276	21.748	21.835	(1.184)	749452	20.0000	20.6844

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT08.D
Date : 29-NOV-2004 13:39
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1858
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Report Date: 30-Nov-2004 10:48

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 14:15 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1859
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:48 target Quant Type: ISTD
Cal Date : 29-NOV-2004 14:15 Cal File: WKT09.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.184	4.179	(0.603)	293165	50.0000	52.7251(Q)
2 Pyridine	79	4.184	4.199	(0.603)	461524	50.0000	52.5280(Q)
$ 3 2-Fluorophenol	112	5.514	5.508	(0.795)	576184	50.0000	52.5039(Q)
$ 4 Phenol-d5	99	6.536	6.551	(0.943)	701646	50.0000	52.4682(Q)
5 Phenol	94	6.556	6.571	(0.945)	735612	50.0000	49.3386(Q)
6 Aniline	66	6.567	6.582	(0.947)	436532	50.0000	54.5538(QM)
7 bis(2-Chloroethyl)ether	63	6.638	6.653	(0.957)	457190	50.0000	49.7749(Q)
8 2-Chlorophenol	128	6.710	6.725	(0.968)	711214	50.0000	51.8331(Q)
9 1,3-Dichlorobenzene	146	6.873	6.878	(0.991)	793481	50.0000	50.5845(Q)
* 10 1,4-Dichlorobenzene-d4	152	6.935	6.939	(1.000)	446707	40.0000	(Q)
11 1,4-Dichlorobenzene	146	6.955	6.960	(1.003)	792868	50.0000	50.6151(Q)
12 Benzyl alcohol	108	7.119	7.133	(1.027)	432166	50.0000	53.2713(Q)
13 1,2-Dichlorobenzene	146	7.129	7.133	(1.028)	752334	50.0000	50.3605(Q)
14 2-Methylphenol	107	7.231	7.236	(1.043)	470332	50.0000	50.9171(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Report Date: 30-Nov-2004 10:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.251	7.256	(1.046)	1152008	50.0000	47.5700
	16 4-Methylphenol	107	7.425	7.450	(1.071)	721233	50.0000	51.1187(Q)
	17 N-Nitroso-di-n-propylamine	70	7.446	7.471	(1.074)	361615	50.0000	50.7438(Q)
	18 Hexachloroethane	117	7.517	7.522	(1.084)	343465	50.0000	50.7035(Q)
$	19 Nitrobenzene-d5	82	7.599	7.614	(0.901)	647175	50.0000	51.8308(Q)
	20 Nitrobenzene	77	7.620	7.634	(0.903)	588294	50.0000	50.6414(Q)
	21 Isophorone	82	7.916	7.982	(0.938)	1294814	50.0000	52.5140(M)
	22 2-Nitrophenol	139	7.988	7.992	(0.947)	474148	50.0000	53.5309(Q)
	23 2,4-Dimethylphenol	122	8.049	8.064	(0.954)	464419	50.0000	49.5788(Q)
	24 bis(2-Chloroethoxy)methane	93	8.141	8.156	(0.965)	780194	50.0000	50.7117(Q)
	25 2,4-Dichlorophenol	162	8.284	8.299	(0.982)	673332	50.0000	52.8603(Q)
	26 Benzoic acid	122	8.284	8.361	(0.982)	258590	50.0000	50.0051(Q)
	27 1,2,4-Trichlorobenzene	180	8.366	8.371	(0.992)	806384	50.0000	52.1212(Q)
*	28 Naphthalene-d8	136	8.437	8.442	(1.000)	1590746	40.0000	
	29 Naphthalene	128	8.468	8.473	(1.004)	2028345	50.0000	50.8611
	30 4-Chloroaniline	127	8.529	8.544	(1.011)	868476	50.0000	59.5134(Q)
	31 Hexachlorobutadiene	225	8.601	8.606	(1.019)	535933	50.0000	51.9500(Q)
	32 4-Chloro-3-methylphenol	107	9.112	9.127	(1.080)	599029	50.0000	52.7513(Q)
	33 2-Methylnaphthalene	142	9.296	9.301	(1.102)	1521284	50.0000	52.8101(Q)
	34 Hexachlorocyclopentadiene	237	9.480	9.485	(0.897)	401083	50.0000	61.0052(Q)
	35 2,4,6-Trichlorophenol	196	9.644	9.659	(0.913)	595861	50.0000	54.4309(Q)
	36 2,4,5-Trichlorophenol	196	9.695	9.710	(0.918)	604898	50.0000	53.3682(Q)
$	37 2-Fluorobiphenyl	172	9.736	9.740	(0.922)	1700219	50.0000	51.3341(Q)
	38 2-Chloronaphthalene	162	9.889	9.894	(0.936)	1375852	50.0000	51.7779(Q)
	39 2-Nitroaniline	65	10.032	10.047	(0.950)	385350	50.0000	52.6951(Q)
	40 Dimethylphthalate	163	10.247	10.252	(0.970)	1997311	50.0000	51.3667
	41 2,6-Dinitrotoluene	165	10.339	10.354	(0.979)	476126	50.0000	53.7726(Q)
	42 Acenaphthylene	152	10.400	10.405	(0.985)	2303108	50.0000	52.5762
	43 3-Nitroaniline	138	10.543	10.569	(0.998)	410565	50.0000	59.9817(Q)
*	44 Acenaphthene-d10	164	10.564	10.569	(1.000)	1079763	40.0000	(Q)
	45 Acenaphthene	154	10.615	10.620	(1.005)	1315249	50.0000	51.9611(Q)
	46 2,4-Dinitrophenol	184	10.676	10.692	(1.011)	265037	50.0000	50.0000(Q)
	47 4-Nitrophenol	109	10.768	10.794	(1.019)	221332	50.0000	54.6820(Q)
	48 Dibenzofuran	168	10.819	10.824	(1.024)	2040949	50.0000	50.9877(Q)
	49 2,4-Dinitrotoluene	165	10.830	10.855	(1.025)	619388	50.0000	53.4025(Q)
	50 Diethylphthalate	149	11.106	11.131	(1.051)	2105297	50.0000	52.6283
	51 4-Chlorophenyl-phenylether	204	11.228	11.233	(1.063)	928559	50.0000	49.9409(Q)
	52 Fluorene	166	11.239	11.254	(1.064)	1645160	50.0000	49.7789(Q)
	53 4-Nitroaniline	138	11.331	11.366	(1.073)	333982	50.0000	49.9945(Q)
	54 4,6-Dinitro-2-methylphenol	198	11.351	11.377	(0.917)	391005	50.0000	59.2742(Q)
	55 N-Nitrosodiphenylamine	169	11.392	11.407	(0.920)	1104587	50.0000	51.7952(Q)
	56 Azobenzene	77	11.423	11.438	(0.922)	1522299	50.0000	52.4414(Q)
$	57 2,4,6-Tribromophenol	330	11.545	11.550	(1.093)	412364	50.0000	55.3125(Q)
	58 4-Bromophenyl-phenylether	248	11.821	11.826	(0.955)	593870	50.0000	52.4202(Q)
	59 Hexachlorobenzene	284	11.924	11.938	(0.963)	726797	50.0000	51.5452(Q)
	60 Pentachlorophenol	266	12.169	12.174	(0.983)	463889	50.0000	57.3745(Q)
*	61 Phenanthrene-d10	188	12.384	12.388	(1.000)	1925662	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Report Date: 30-Nov-2004 10:48

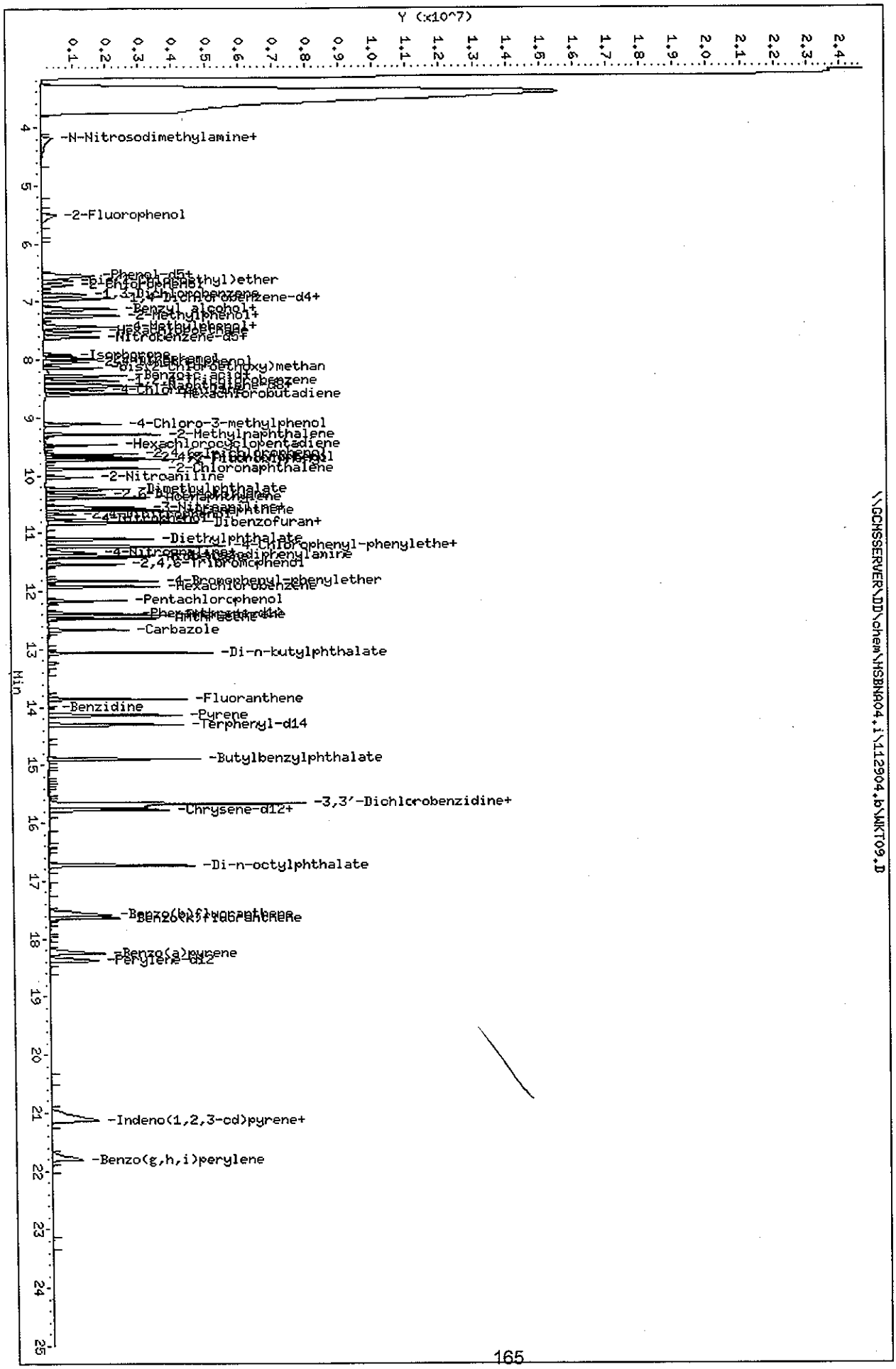
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.414	12.429	(1.002)	2383080	50.0000	52.2517
63 Anthracene	178	12.486	12.491	(1.008)	2361224	50.0000	51.2628
64 Carbazole	167	12.670	12.685	(1.023)	1540861	50.0000	49.9343
65 Di-n-butylphthalate	149	13.069	13.074	(1.055)	3566849	50.0000	47.6878
66 Fluoranthene	202	13.866	13.871	(1.120)	2811177	50.0000	50.5348
67 Benzidine	184	14.009	14.014	(0.890)	99960	50.0000	33.7963
68 Pyrene	202	14.142	14.157	(0.899)	2879465	50.0000	52.4078
$ 69 Terphenyl-d14	244	14.306	14.321	(0.909)	2211840	50.0000	50.9472
70 Butylbenzylphthalate	149	14.899	14.903	(0.947)	1741664	50.0000	51.6667(Q)
71 3,3'-Dichlorobenzidine	252	15.676	15.690	(0.996)	849078	50.0000	60.8388(Q)
72 bis(2-Ethylhexyl)phthalate	149	15.676	15.690	(0.996)	2271876	50.0000	46.5652(Q)
73 Benzo(a)anthracene	228	15.706	15.711	(0.998)	2744814	50.0000	50.6427
* 74 Chrysene-d12	240	15.737	15.742	(1.000)	1728427	40.0000	
75 Chrysene	228	15.778	15.793	(1.003)	2484441	50.0000	51.4945
76 Di-n-octylphthalate	149	16.739	16.743	(0.910)	4314533	50.0000	55.3764
77 Benzo(b)fluoranthene	252	17.598	17.613	(0.957)	3272636	50.0000	50.0081
78 Benzo(k)fluoranthene	252	17.649	17.674	(0.960)	1942560	50.0000	43.0677(AM)
79 Benzo(a)pyrene	252	18.262	18.277	(0.993)	2122359	50.0000	52.3824
* 80 Perylene-d12	264	18.385	18.389	(1.000)	1406676	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.094	21.129	(1.147)	2226985	50.0000	48.8029
82 Dibenz(a,h)anthracene	278	21.135	21.170	(1.150)	1813534	50.0000	50.2299
83 Benzo(g,h,i)perylene	276	21.810	21.835	(1.186)	1730711	50.0000	46.2964

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D
Date : 29-NOV-2004 14:15
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04MS1859
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



\\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT09.D

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Report Date: 30-Nov-2004 10:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 14:51 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1860
Misc Info : 80ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:48 target Quant Type: ISTD
Cal Date : 29-NOV-2004 14:51 Cal File: WKT10.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.179	4.179	(0.602)	436177	80.0000	83.3921(Q)
2 Pyridine	79	4.199	4.199	(0.605)	696434	80.0000	84.0795(Q)
$ 3 2-Fluorophenol	112	5.508	5.508	(0.794)	865914	80.0000	83.7785(Q)
$ 4 Phenol-d5	99	6.551	6.551	(0.944)	1028250	80.0000	82.0789(Q)
5 Phenol	94	6.571	6.571	(0.947)	1060499	80.0000	77.1139(Q)
6 Aniline	66	6.581	6.581	(0.948)	400151	80.0000	57.5069(QM)
7 bis(2-Chloroethyl)ether	63	6.653	6.653	(0.959)	662689	80.0000	78.0030(Q)
8 2-Chlorophenol	128	6.725	6.725	(0.969)	1050133	80.0000	81.7751(Q)
9 1,3-Dichlorobenzene	146	6.878	6.878	(0.991)	1157986	80.0000	79.4532(Q)
* 10 1,4-Dichlorobenzene-d4	152	6.939	6.939	(1.000)	415755	40.0000	(Q)
11 1,4-Dichlorobenzene	146	6.960	6.960	(1.003)	1184123	80.0000	80.9727(Q)
12 Benzyl alcohol	108	7.133	7.133	(1.028)	622638	80.0000	81.9590(Q)
13 1,2-Dichlorobenzene	146	7.133	7.133	(1.028)	1120499	80.0000	80.4706(Q)
14 2-Methylphenol	107	7.236	7.236	(1.043)	679500	80.0000	79.2282(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Report Date: 30-Nov-2004 10:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.256	7.256	(1.046)	1584561	80.0000	72.0494
	16 4-Methylphenol	107	7.450	7.450	(1.074)	1057329	80.0000	80.4149(M)
	17 N-Nitroso-di-n-propylamine	70	7.471	7.471	(1.077)	515725	80.0000	78.1956(Q)
	18 Hexachloroethane	117	7.522	7.522	(1.084)	499076	80.0000	79.3268(Q)
$	19 Nitrobenzene-d5	82	7.614	7.614	(0.902)	918314	80.0000	80.6437(Q)
	20 Nitrobenzene	77	7.634	7.634	(0.904)	851103	80.0000	80.3973(Q)
	21 Isophorone	82	7.982	7.982	(0.946)	1818165	80.0000	80.8134(M)
	22 2-Nitrophenol	139	7.992	7.992	(0.947)	744256	80.0000	89.5623(Q)
	23 2,4-Dimethylphenol	122	8.064	8.064	(0.955)	681301	80.0000	79.9297(Q)
	24 bis(2-Chloroethoxy)methane	93	8.156	8.156	(0.966)	1116096	80.0000	79.7653(Q)
	25 2,4-Dichlorophenol	162	8.299	8.299	(0.983)	995887	80.0000	84.6522(Q)
	26 Benzoic acid	122	8.360	8.360	(0.990)	501548	80.0000	79.7831(M)
	27 1,2,4-Trichlorobenzene	180	8.371	8.371	(0.992)	1162143	80.0000	82.0125(Q)
*	28 Naphthalene-d8	136	8.442	8.442	(1.000)	1447815	40.0000	
	29 Naphthalene	128	8.473	8.473	(1.004)	2822164	80.0000	78.1182
	30 4-Chloroaniline	127	8.544	8.544	(1.012)	1218529	80.0000	89.1277(Q)
	31 Hexachlorobutadiene	225	8.606	8.606	(1.019)	745520	80.0000	79.5196(Q)
	32 4-Chloro-3-methylphenol	107	9.127	9.127	(1.081)	868974	80.0000	83.2291(Q)
	33 2-Methylnaphthalene	142	9.301	9.301	(1.102)	2093260	80.0000	79.8662(Q)
	34 Hexachlorocyclopentadiene	237	9.485	9.485	(0.897)	599804	80.0000	95.0234(Q)
	35 2,4,6-Trichlorophenol	196	9.659	9.659	(0.914)	883048	80.0000	87.5219(Q)
	36 2,4,5-Trichlorophenol	196	9.710	9.710	(0.919)	889855	80.0000	85.6838(Q)
$	37 2-Fluorobiphenyl	172	9.740	9.740	(0.922)	2405763	80.0000	80.5654(Q)
	38 2-Chloronaphthalene	162	9.894	9.894	(0.936)	1961940	80.0000	81.6229(Q)
	39 2-Nitroaniline	65	10.047	10.047	(0.951)	548624	80.0000	82.6647(Q)
	40 Dimethylphthalate	163	10.252	10.252	(0.970)	2899126	80.0000	82.2598
	41 2,6-Dinitrotoluene	165	10.354	10.354	(0.980)	694717	80.0000	85.6415(Q)
	42 Acenaphthylene	152	10.405	10.405	(0.985)	3142956	80.0000	79.7678
	43 3-Nitroaniline	138	10.569	10.569	(1.000)	608422	80.0000	94.3395(Q)
*	44 Acenaphthene-d10	164	10.569	10.569	(1.000)	971776	40.0000	(Q)
	45 Acenaphthene	154	10.620	10.620	(1.005)	1835915	80.0000	80.4918(Q)
	46 2,4-Dinitrophenol	184	10.691	10.691	(1.012)	425943	80.0000	80.0000(Q)
	47 4-Nitrophenol	109	10.793	10.793	(1.021)	359569	80.0000	91.5692(Q)
	48 Dibenzofuran	168	10.824	10.824	(1.024)	2882569	80.0000	80.0126(Q)
	49 2,4-Dinitrotoluene	165	10.855	10.855	(1.027)	879660	80.0000	83.3804(Q)
	50 Diethylphthalate	149	11.131	11.131	(1.053)	2872008	80.0000	79.8180
	51 4-Chlorophenyl-phenylether	204	11.233	11.233	(1.063)	1264619	80.0000	76.4191(Q)
	52 Fluorene	166	11.253	11.253	(1.065)	2308505	80.0000	78.0002(Q)
	53 4-Nitroaniline	138	11.366	11.366	(1.075)	551207	80.0000	79.9231(Q)
	54 4,6-Dinitro-2-methylphenol	198	11.376	11.376	(0.918)	604398	80.0000	94.8251(Q)
	55 N-Nitrosodiphenylamine	169	11.407	11.407	(0.921)	1614187	80.0000	82.7705(Q)
	56 Azobenzene	77	11.438	11.438	(0.923)	2146397	80.0000	81.2454(Q)
$	57 2,4,6-Tribromophenol	330	11.550	11.550	(1.093)	569249	80.0000	83.8267(Q)
	58 4-Bromophenyl-phenylether	248	11.826	11.826	(0.955)	848243	80.0000	82.0599(Q)
	59 Hexachlorobenzene	284	11.938	11.938	(0.964)	969976	80.0000	76.6721(Q)
	60 Pentachlorophenol	266	12.174	12.174	(0.983)	681795	80.0000	89.3819(Q)
*	61 Phenanthrene-d10	188	12.388	12.388	(1.000)	1745709	40.0000	

Interfering 2 PNB

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Report Date: 30-Nov-2004 10:49

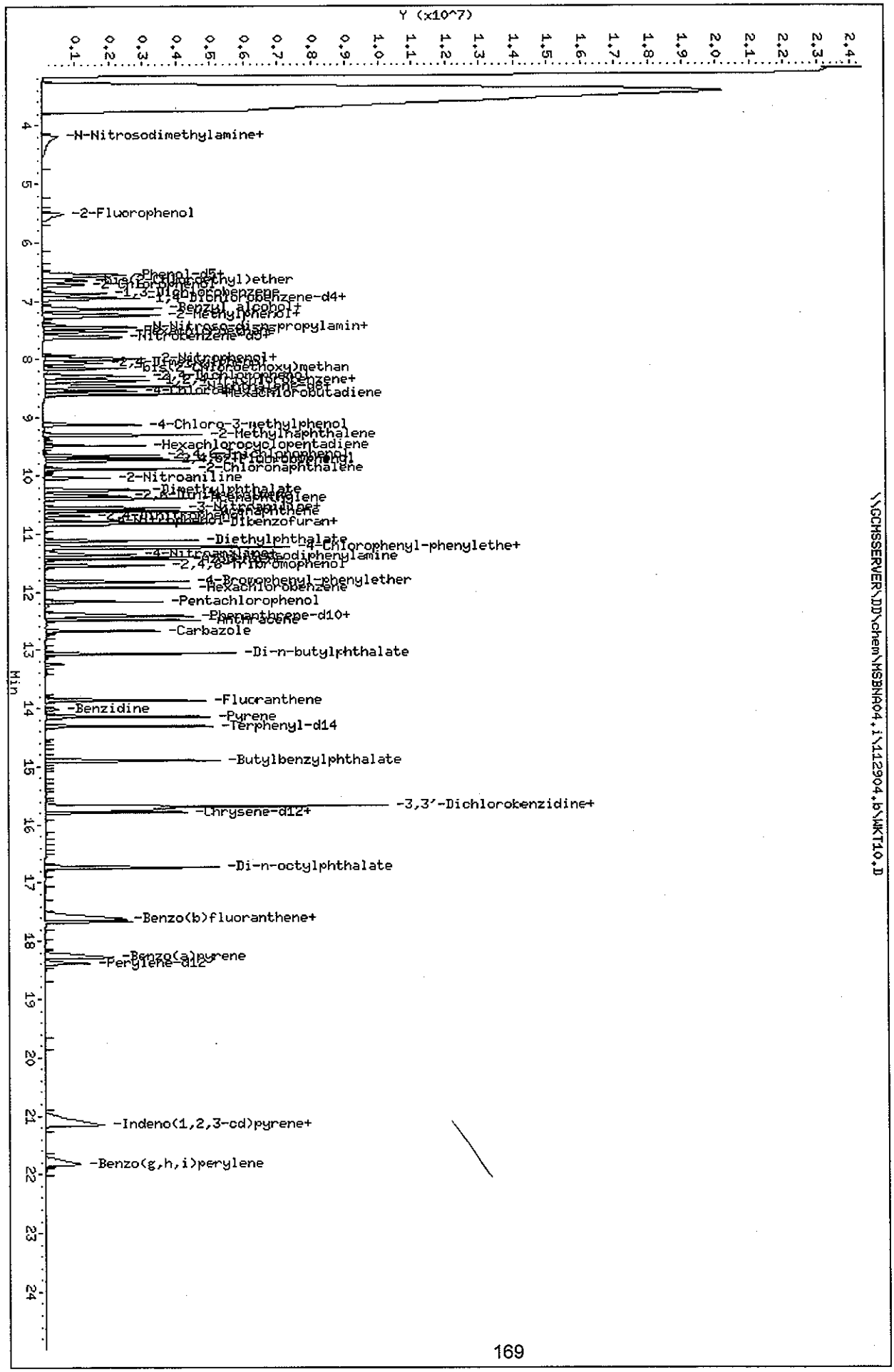
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.429	12.429	(1.003)	3276778	80.0000	79.3767
63 Anthracene	178	12.491	12.491	(1.008)	3249878	80.0000	78.1824
64 Carbazole	167	12.685	12.685	(1.024)	2589255	80.0000	89.7413
65 Di-n-butylphthalate	149	13.073	13.073	(1.055)	4818521	80.0000	72.6871
66 Fluoranthene	202	13.871	13.871	(1.120)	4048490	80.0000	80.2326
67 Benzidine	184	14.014	14.014	(0.890)	258690	80.0000	94.0482
68 Pyrene	202	14.157	14.157	(0.899)	3945826	80.0000	80.6401
$ 69 Terphenyl-d14	244	14.321	14.321	(0.910)	2950430	80.0000	77.1201
70 Butylbenzylphthalate	149	14.903	14.903	(0.947)	2518596	80.0000	83.1911(Q)
71 3,3'-Dichlorobenzidine	252	15.690	15.690	(0.997)	1217526	80.0000	93.8642(Q)
72 bis(2-Ethylhexyl)phthalate	149	15.690	15.690	(0.997)	2981619	80.0000	70.7235(Q)
73 Benzo(a)anthracene	228	15.711	15.711	(0.998)	3877300	80.0000	80.3795
* 74 Chrysene-d12	240	15.742	15.742	(1.000)	1536833	40.0000	
75 Chrysene	228	15.793	15.793	(1.003)	3398640	80.0000	79.3530
76 Di-n-octylphthalate	149	16.743	16.743	(0.910)	5925705	80.0000	91.4655
77 Benzo(b)fluoranthene	252	17.612	17.612	(0.958)	4196289	80.0000	79.3771
78 Benzo(k)fluoranthene	252	17.674	17.674	(0.961)	2840509	80.0000	78.7880(AMH)
79 Benzo(a)pyrene	252	18.277	18.277	(0.994)	2818714	80.0000	85.5665
* 80 Perylene-d12	264	18.389	18.389	(1.000)	1127773	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.129	21.129	(1.149)	2805554	80.0000	77.2196
82 Dibenz(a,h)anthracene	278	21.170	21.170	(1.151)	2284907	80.0000	79.1118
83 Benzo(g,h,i)perylene	276	21.835	21.835	(1.187)	2158048	80.0000	73.2237

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT10.D
Date : 29-NOV-2004 14:51
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1860
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Report Date: 30-Nov-2004 10:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 15:26 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1923
Misc Info : 100ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:49 target Quant Type: ISTD
Cal Date : 29-NOV-2004 15:26 Cal File: WKT11.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.183	4.179	(0.602)	542806	100.000	99.8072(Q)
2 Pyridine	79	4.183	4.199	(0.602)	887900	100.000	102.5315(Q)
$ 3 2-Fluorophenol	112	5.512	5.508	(0.794)	1089821	100.000	101.1373(Q)
$ 4 Phenol-d5	99	6.565	6.551	(0.946)	1287169	100.000	98.9787(Q)
5 Phenol	94	6.575	6.571	(0.947)	1300947	100.000	92.3369(Q)
6 Aniline	66	6.596	6.581	(0.950)	400216	100.000	59.7456(QM)
7 bis(2-Chloroethyl)ether	63	6.657	6.653	(0.959)	834662	100.000	95.3314(Q)
8 2-Chlorophenol	128	6.729	6.725	(0.969)	1313822	100.000	98.6262(Q)
9 1,3-Dichlorobenzene	146	6.882	6.878	(0.991)	1434774	100.000	95.4939(Q)
* 10 1,4-Dichlorobenzene-d4	152	6.943	6.939	(1.000)	432464	40.0000	(Q)
11 1,4-Dichlorobenzene	146	6.964	6.960	(1.003)	1476985	100.000	97.5690(Q)
12 Benzyl alcohol	108	7.158	7.133	(1.031)	772492	100.000	98.1228(Q)
13 1,2-Dichlorobenzene	146	7.138	7.133	(1.028)	1369882	100.000	95.4417(Q)
14 2-Methylphenol	107	7.250	7.236	(1.044)	812615	100.000	92.4616(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Report Date: 30-Nov-2004 10:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.260	7.256	(1.046)	1852090	100.000	83.6134
	16 4-Methylphenol	107	7.465	7.450	(1.075)	1339211	100.000	98.2590(QM)
	17 N-Nitroso-di-n-propylamine	70	7.485	7.471	(1.078)	645012	100.000	94.9663(M)
	18 Hexachloroethane	117	7.516	7.522	(1.082)	615732	100.000	95.0240(Q)
$	19 Nitrobenzene-d5	82	7.618	7.614	(0.902)	1156010	100.000	96.6000(Q)
	20 Nitrobenzene	77	7.638	7.634	(0.904)	1060637	100.000	95.5382(Q)
	21 Isophorone	82	8.006	7.982	(0.948)	2271421	100.000	96.1542(M)
	22 2-Nitrophenol	139	7.996	7.992	(0.947)	955359	100.000	107.1125(QM)
	23 2,4-Dimethylphenol	122	8.078	8.064	(0.956)	939595	100.000	103.4628(QM)
	24 bis(2-Chloroethoxy)methane	93	8.160	8.156	(0.966)	1386862	100.000	94.6757(Q)
	25 2,4-Dichlorophenol	162	8.303	8.299	(0.983)	1247485	100.000	100.1837(Q)
	26 Benzoic acid	122	8.395	8.360	(0.994)	672559	100.000	97.9342(M)
	27 1,2,4-Trichlorobenzene	180	8.375	8.371	(0.992)	1445995	100.000	97.0199(Q)
*	28 Naphthalene-d8	136	8.446	8.442	(1.000)	1531864	40.0000	
	29 Naphthalene	128	8.477	8.473	(1.004)	3448091	100.000	91.4871
	30 4-Chloroaniline	127	8.548	8.544	(1.012)	1550178	100.000	105.9000(Q)
	31 Hexachlorobutadiene	225	8.610	8.606	(1.019)	909136	100.000	92.9442(Q)
	32 4-Chloro-3-methylphenol	107	9.131	9.127	(1.081)	1090726	100.000	98.9447(Q)
	33 2-Methylnaphthalene	142	9.305	9.301	(1.102)	2468067	100.000	90.4209(Q)
	34 Hexachlorocyclopentadiene	237	9.489	9.485	(0.898)	764921	100.000	110.0241(Q)
	35 2,4,6-Trichlorophenol	196	9.663	9.659	(0.914)	1087092	100.000	100.2825(Q)
	36 2,4,5-Trichlorophenol	196	9.714	9.710	(0.919)	1083191	100.000	97.5974(Q)
$	37 2-Fluorobiphenyl	172	9.755	9.740	(0.923)	2821802	100.000	89.7980(Q)
	38 2-Chloronaphthalene	162	9.898	9.894	(0.936)	2449261	100.000	95.7075(Q)
	39 2-Nitroaniline	65	10.061	10.047	(0.952)	671076	100.000	95.0897(Q)
	40 Dimethylphthalate	163	10.266	10.252	(0.971)	3578335	100.000	95.4190
	41 2,6-Dinitrotoluene	165	10.358	10.354	(0.980)	874079	100.000	100.2880(Q)
	42 Acenaphthylene	152	10.409	10.405	(0.985)	3797640	100.000	91.0912
	43 3-Nitroaniline	138	10.573	10.569	(1.000)	757822	100.000	107.7350(Q)
*	44 Acenaphthene-d10	164	10.573	10.569	(1.000)	1043504	40.0000	(Q)
	45 Acenaphthene	154	10.624	10.620	(1.005)	2245112	100.000	92.7706(Q)
	46 2,4-Dinitrophenol	184	10.705	10.691	(1.013)	562056	100.000	99.2683(Q)
	47 4-Nitrophenol	109	10.808	10.793	(1.022)	455150	100.000	105.8411(QH)
	48 Dibenzofuran	168	10.838	10.824	(1.025)	3393046	100.000	89.5426(Q)
	49 2,4-Dinitrotoluene	165	10.869	10.855	(1.028)	1073806	100.000	95.6174(Q)
	50 Diethylphthalate	149	11.145	11.131	(1.054)	3480416	100.000	91.5926
	51 4-Chlorophenyl-phenylether	204	11.237	11.233	(1.063)	1551399	100.000	89.1920(Q)
	52 Fluorene	166	11.258	11.253	(1.065)	2717542	100.000	87.3169(Q)
	53 4-Nitroaniline	138	11.380	11.366	(1.076)	692415	100.000	97.2485(Q)
	54 4,6-Dinitro-2-methylphenol	198	11.390	11.376	(0.918)	746872	100.000	108.6688(Q)
	55 N-Nitrosodiphenylamine	169	11.411	11.407	(0.920)	1970291	100.000	96.4493(Q)
	56 Azobenzene	77	11.442	11.438	(0.923)	2753003	100.000	98.9814(Q)
$	57 2,4,6-Tribromophenol	330	11.564	11.550	(1.094)	667828	100.000	92.8864(Q)
	58 4-Bromophenyl-phenylether	248	11.840	11.826	(0.955)	1002745	100.000	93.2047(Q)
	59 Hexachlorobenzene	284	11.942	11.938	(0.963)	1191333	100.000	90.8916(Q)
	60 Pentachlorophenol	266	12.188	12.174	(0.983)	837385	100.000	103.2239(Q)
*	61 Phenanthrene-d10	188	12.403	12.388	(1.000)	1841611	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Report Date: 30-Nov-2004 10:49

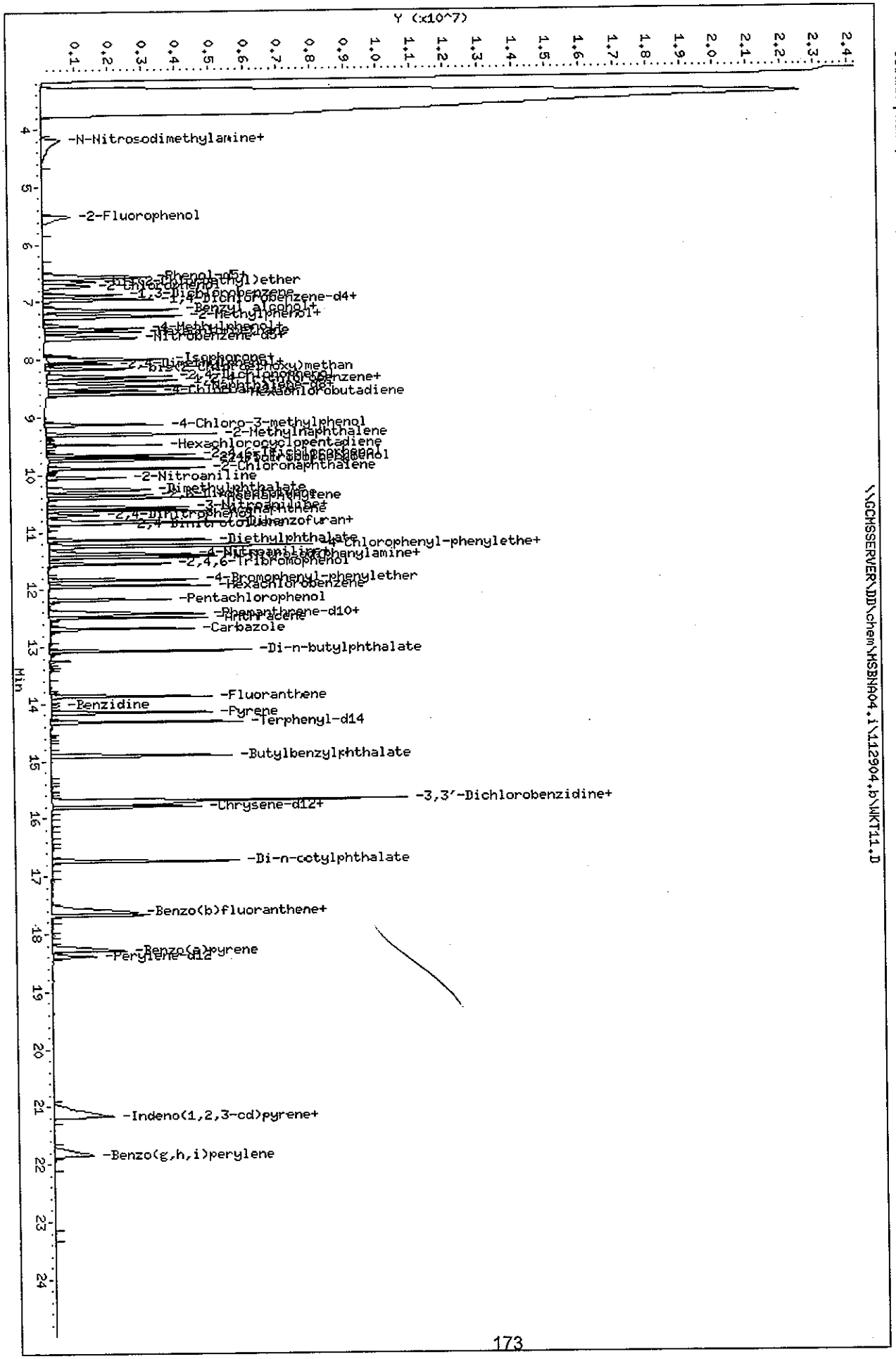
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.433	12.429	(1.002)	4066061	100.000	94.2603
63 Anthracene	178	12.505	12.491	(1.008)	3922456	100.000	90.8176
64 Carbazole	167	12.689	12.685	(1.023)	3229087	100.000	105.0234
65 Di-n-butylphthalate	149	13.077	13.073	(1.054)	6025909	100.000	88.2004
66 Fluoranthene	202	13.885	13.871	(1.120)	4649437	100.000	88.9521
67 Benzidine	184	14.018	14.014	(0.890)	169818	100.000	64.6382
68 Pyrene	202	14.161	14.157	(0.899)	4780348	100.000	96.1421
$ 69 Terphenyl-d14	244	14.325	14.321	(0.909)	3590815	100.000	93.0521
70 Butylbenzylphthalate	149	14.917	14.903	(0.947)	2915181	100.000	95.0808(Q)
71 3,3'-Dichlorobenzidine	252	15.705	15.690	(0.997)	1360718	100.000	102.1378(Q)
72 bis(2-Ethylhexyl)phthalate	149	15.694	15.690	(0.996)	3501692	100.000	83.8417(Q)
73 Benzo(a)anthracene	228	15.725	15.711	(0.998)	4470518	100.000	91.8522
* 74 Chrysene-d12	240	15.756	15.742	(1.000)	1571698	40.0000	
75 Chrysene	228	15.807	15.793	(1.003)	4081075	100.000	94.0907
76 Di-n-octylphthalate	149	16.747	16.743	(0.911)	7002822	100.000	109.2539
77 Benzo(b)fluoranthene	252	17.627	17.612	(0.958)	5021940	100.000	99.2652
78 Benzo(k)fluoranthene	252	17.678	17.674	(0.961)	3149623	100.000	91.2750(AMH)
79 Benzo(a)pyrene	252	18.291	18.277	(0.994)	3199743	100.000	100.0251
* 80 Perylene-d12	264	18.393	18.389	(1.000)	1095121	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.144	21.129	(1.150)	3088075	100.000	89.1174
82 Dibenz(a,h)anthracene	278	21.184	21.170	(1.152)	2520844	100.000	91.2012
83 Benzo(g,h,i)perylene	276	21.849	21.835	(1.188)	2371821	100.000	84.9548

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT11.D
Date : 29-NOV-2004 15:26
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04NS1923
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Report Date: 30-Nov-2004 10:49

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 16:02 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1861
Misc Info : 120ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:49 target Quant Type: ISTD
Cal Date : 29-NOV-2004 16:02 Cal File: WKT12.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.184	4.179	(0.602)	818609	120.000	129.2569(Q)
	2 Pyridine	79	4.184	4.199	(0.602)	1326658	120.000	131.1974(Q)
$	3 2-Fluorophenol	112	5.524	5.508	(0.794)	1641305	120.000	130.5596(Q)
$	4 Phenol-d5	99	6.587	6.551	(0.947)	1884313	120.000	125.1478(Q)
	5 Phenol	94	6.607	6.571	(0.950)	1906636	120.000	118.0435(Q)
	6 Aniline	66	6.617	6.581	(0.951)	533298	120.000	73.7093(QM)
	7 bis(2-Chloroethyl)ether	63	6.679	6.653	(0.960)	1343553	120.000	131.3830(QH)
	8 2-Chlorophenol	128	6.750	6.725	(0.971)	1973724	120.000	127.5410(Q)
	9 1,3-Dichlorobenzene	146	6.883	6.878	(0.990)	2175539	120.000	125.0741(Q)
*	10 1,4-Dichlorobenzene-d4	152	6.955	6.939	(1.000)	497130	40.0000	(Q)
	11 1,4-Dichlorobenzene	146	6.975	6.960	(1.003)	2094113	120.000	120.2927(Q)
	12 Benzyl alcohol	108	7.190	7.133	(1.034)	1190824	120.000	129.7942(Q)
	13 1,2-Dichlorobenzene	146	7.149	7.133	(1.028)	1943247	120.000	118.0901(Q)
	14 2-Methylphenol	107	7.262	7.236	(1.044)	1118191	120.000	111.9226(Q)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Report Date: 30-Nov-2004 10:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.282	7.256	(1.047)	2400463	120.000	97.2519(Q)
	16 4-Methylphenol	107	7.497	7.450	(1.078)	1997565	120.000	126.3702(QM)
	17 N-Nitroso-di-n-propylamine	70	7.517	7.471	(1.081)	819350	120.000	106.8579(QH)
	18 Hexachloroethane	117	7.527	7.522	(1.082)	820624	120.000	111.4751(Q)
$	19 Nitrobenzene-d5	82	7.640	7.614	(0.903)	1740436	120.000	124.3771(Q)
	20 Nitrobenzene	77	7.660	7.634	(0.906)	1554514	120.000	120.4124(Q)
	21 Isophorone	82	8.049	7.982	(0.952)	3350308	120.000	121.7367(M)
	22 2-Nitrophenol	139	8.008	7.992	(0.947)	1399624	120.000	132.6486(Q)
	23 2,4-Dimethylphenol	122	8.110	8.064	(0.959)	1456039	120.000	135.0664(QM)
	24 bis(2-Chloroethoxy)methane	93	8.192	8.156	(0.969)	1989283	120.000	117.2871(M)
	25 2,4-Dichlorophenol	162	8.325	8.299	(0.984)	1824297	120.000	125.1558(Q)
	26 Benzoic acid	122	8.458	8.360	(1.000)	999903	120.000	119.0097(QM)
	27 1,2,4-Trichlorobenzene	180	8.386	8.371	(0.992)	2111796	120.000	121.6387(Q)
*	28 Naphthalene-d8	136	8.458	8.442	(1.000)	1780349	40.0000	
	29 Naphthalene	128	8.488	8.473	(1.004)	4675140	120.000	108.2270
	30 4-Chloroaniline	127	8.570	8.544	(1.013)	2353235	120.000	135.3703(Q)
	31 Hexachlorobutadiene	225	8.621	8.606	(1.019)	1334859	120.000	117.7822(Q)
	32 4-Chloro-3-methylphenol	107	9.153	9.127	(1.082)	1635534	120.000	126.5056(Q)
	33 2-Methylnaphthalene	142	9.316	9.301	(1.102)	3582687	120.000	113.7739(Q)
	34 Hexachlorocyclopentadiene	237	9.490	9.485	(0.897)	985897	120.000	120.2133(Q)
	35 2,4,6-Trichlorophenol	196	9.684	9.659	(0.915)	1585011	120.000	123.4060(Q)
	36 2,4,5-Trichlorophenol	196	9.736	9.710	(0.920)	1437469	120.000	111.1794(QH)
$	37 2-Fluorobiphenyl	172	9.766	9.740	(0.923)	3836193	120.000	105.5960(Q)
	38 2-Chloronaphthalene	162	9.920	9.894	(0.937)	3314163	120.000	111.1690(Q)
	39 2-Nitroaniline	65	10.083	10.047	(0.953)	1032825	120.000	123.5024(Q)
	40 Dimethylphthalate	163	10.277	10.252	(0.971)	5459170	120.000	122.9435
	41 2,6-Dinitrotoluene	165	10.390	10.354	(0.982)	1247164	120.000	121.1520(QH)
	42 Acenaphthylene	152	10.421	10.405	(0.985)	5385951	120.000	110.7594
	43 3-Nitroaniline	138	10.605	10.569	(1.002)	1147790	120.000	135.4125(Q)
*	44 Acenaphthene-d10	164	10.584	10.569	(1.000)	1230523	40.0000	(Q)
	45 Acenaphthene	154	10.645	10.620	(1.006)	3135891	120.000	111.0550(Q)
	46 2,4-Dinitrophenol	184	10.748	10.691	(1.015)	919226	120.000	121.2404(Q)
	47 4-Nitrophenol	109	10.850	10.793	(1.025)	683866	120.000	131.5988(QH)
	48 Dibenzofuran	168	10.850	10.824	(1.025)	4822186	120.000	109.4917(Q)
	49 2,4-Dinitrotoluene	165	10.901	10.855	(1.030)	1685355	120.000	126.1732(Q)
	50 Diethylphthalate	149	11.177	11.131	(1.056)	4881956	120.000	110.4024
	51 4-Chlorophenyl-phenylether	204	11.259	11.233	(1.064)	2175325	120.000	107.8453(Q)
	52 Fluorene	166	11.279	11.253	(1.066)	4118229	120.000	113.1292(Q)
	53 4-Nitroaniline	138	11.422	11.366	(1.079)	958814	120.000	118.1410(QH)
	54 4,6-Dinitro-2-methylphenol	198	11.433	11.376	(0.921)	1088022	120.000	133.8920(Q)
	55 N-Nitrosodiphenylamine	169	11.443	11.407	(0.922)	2744147	120.000	116.8210(Q)
	56 Azobenzene	77	11.463	11.438	(0.923)	3894656	120.000	121.0617(Q)
$	57 2,4,6-Tribromophenol	330	11.586	11.550	(1.095)	1042539	120.000	122.5331(Q)
	58 4-Bromophenyl-phenylether	248	11.852	11.826	(0.955)	1501348	120.000	120.7073(Q)
	59 Hexachlorobenzene	284	11.964	11.938	(0.964)	1720485	120.000	114.5166(Q)
	60 Pentachlorophenol	266	12.199	12.174	(0.983)	1249095	120.000	130.8951(Q)
*	61 Phenanthrene-d10	188	12.414	12.388	(1.000)	2126994	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Report Date: 30-Nov-2004 10:49

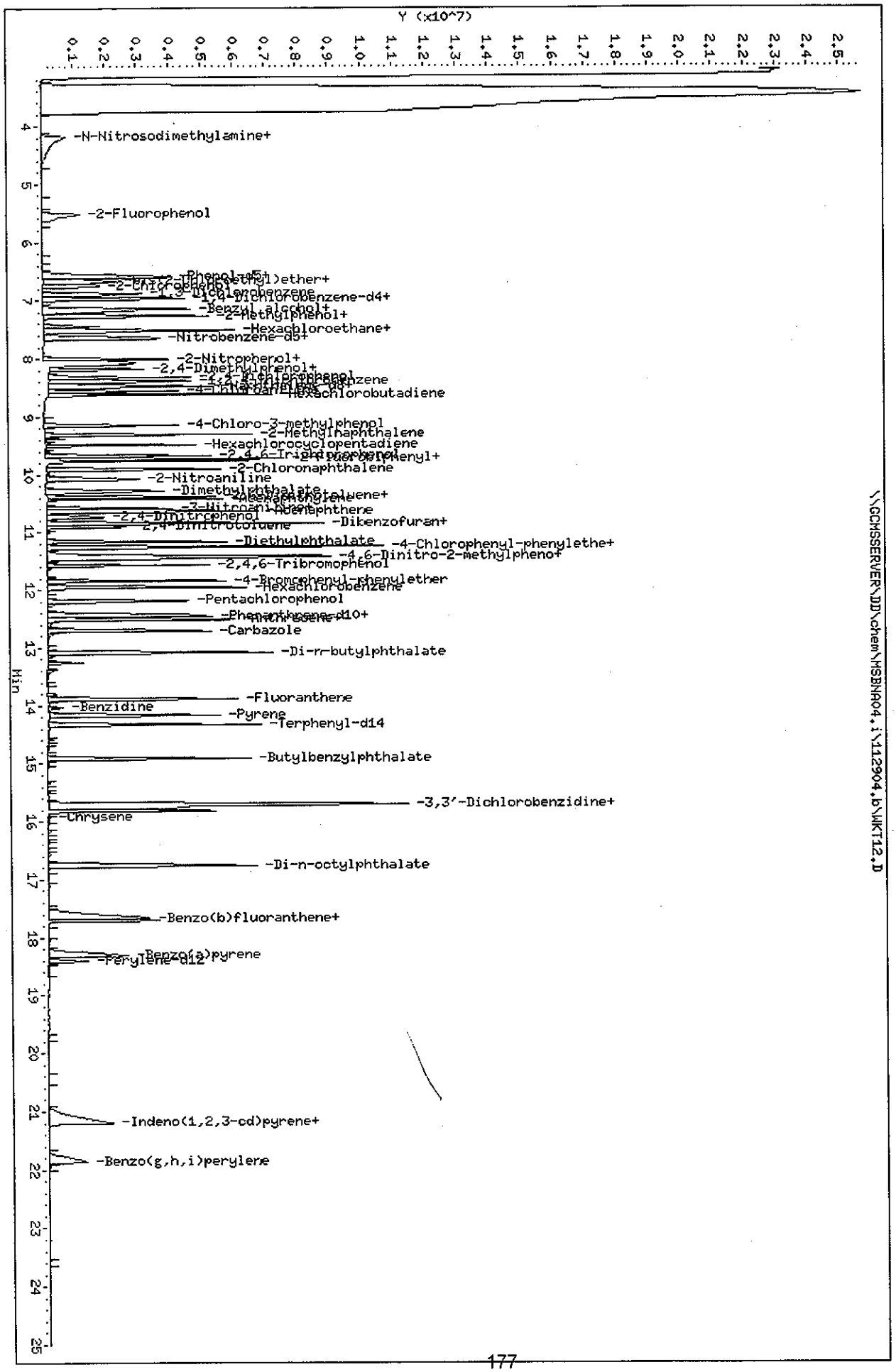
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.455	12.429	(1.003)	5807454	120.000	116.9846
63 Anthracene	178	12.527	12.491	(1.009)	5538403	120.000	112.0745 (H)
64 Carbazole	167	12.711	12.685	(1.024)	4991223	120.000	137.1974
65 Di-n-butylphthalate	149	13.089	13.073	(1.054)	8142548	120.000	105.2977
66 Fluoranthene	202	13.897	13.871	(1.119)	6622409	120.000	110.8891
67 Benzidine	184	14.040	14.014	(0.890)	270534	120.000	100.3583
68 Pyrene	202	14.183	14.157	(0.899)	6634562	120.000	125.7278
$ 69 Terphenyl-d14	244	14.336	14.321	(0.909)	5208572	120.000	126.8367
70 Butylbenzylphthalate	149	14.929	14.903	(0.946)	3977475	120.000	122.6265 (Q)
71 3,3'-Dichlorobenzidine	252	15.737	15.690	(0.997)	1953033	120.000	135.9910 (Q)
72 bis(2-Ethylhexyl)phthalate	149	15.706	15.690	(0.995)	4980754	120.000	114.0711 (Q)
73 Benzo(a)anthracene	228	15.757	15.711	(0.999)	6459500	120.000	125.1413 (M)
* 74 Chrysene-d12	240	15.778	15.742	(1.000)	1656657	40.0000	
75 Chrysene	228	15.829	15.793	(1.003)	5644435	120.000	123.0174 (H)
76 Di-n-octylphthalate	149	16.769	16.743	(0.911)	9090066	120.000	137.6802
77 Benzo(b)fluoranthene	252	17.669	17.612	(0.959)	7036098	120.000	138.3863
78 Benzo(k)fluoranthene	252	17.710	17.674	(0.962)	3730988	120.000	109.0177 (AMH)
79 Benzo(a)pyrene	252	18.313	18.277	(0.994)	4247329	120.000	130.4935
* 80 Perylene-d12	264	18.415	18.389	(1.000)	1100332	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.176	21.129	(1.150)	3656310	120.000	106.6813
82 Dibenz(a,h)anthracene	278	21.206	21.170	(1.152)	3037494	120.000	110.5969
83 Benzo(g,h,i)perylene	276	21.871	21.835	(1.188)	2640019	120.000	96.7215

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D
Date : 29-NOV-2004 16:02
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL.04WS1861
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



\\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT12.D

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Report Date: 30-Nov-2004 10:50

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 16:37 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICAL,04WS1862
Misc Info : 160ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:50 target Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	1 N-Nitrosodimethylamine	74	4.202	4.179	(0.604)	1079324	160.000	176.2214
	2 Pyridine	79	4.202	4.199	(0.604)	1769530	160.000	180.2823
$	3 2-Fluorophenol	112	5.531	5.508	(0.796)	2158127	160.000	177.3327
$	4 Phenol-d5	99	6.615	6.551	(0.951)	2345401	160.000	163.0002
	5 Phenol	94	6.635	6.571	(0.954)	2423222	160.000	157.7295
	6 Aniline	66	6.635	6.581	(0.954)	758469	160.000	114.4628(M)
	7 bis(2-Chloroethyl)ether	63	6.707	6.653	(0.965)	1867992	160.000	187.0315(M)
	8 2-Chlorophenol	128	6.768	6.725	(0.974)	2660719	160.000	177.5670
	9 1,3-Dichlorobenzene	146	6.891	6.878	(0.991)	2871689	160.000	171.4512
*	10 1,4-Dichlorobenzene-d4	152	6.952	6.939	(1.000)	473810	40.0000	
	11 1,4-Dichlorobenzene	146	6.983	6.960	(1.004)	2545068	160.000	154.1885
	12 Benzyl alcohol	108	7.228	7.133	(1.040)	1761973	160.000	195.1712(M)
	13 1,2-Dichlorobenzene	146	7.157	7.133	(1.029)	2402029	160.000	153.9779
	14 2-Methylphenol	107	7.279	7.236	(1.047)	1288594	160.000	137.9866(H)

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Report Date: 30-Nov-2004 10:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.279	7.256	(1.047)	2986203	160.000	130.3028
	16 4-Methylphenol	107	7.463	7.450	(1.074)	2466649	160.000	163.2505(M)
	17 N-Nitroso-di-n-propylamine	70	7.545	7.471	(1.085)	1135706	160.000	155.9662(H)
	18 Hexachloroethane	117	7.535	7.522	(1.084)	1025763	160.000	147.7931
$	19 Nitrobenzene-d5	82	7.658	7.614	(0.905)	2259271	160.000	166.5822
	20 Nitrobenzene	77	7.678	7.634	(0.907)	1959412	160.000	157.8272
	21 Isophorone	82	8.087	7.982	(0.955)	4203319	160.000	158.6980(M)
	22 2-Nitrophenol	139	8.026	7.992	(0.948)	1785112	160.000	173.4753
	23 2,4-Dimethylphenol	122	8.138	8.064	(0.961)	1867869	160.000	177.0853(M)
	24 bis(2-Chloroethoxy)methane	93	8.210	8.156	(0.970)	2308626	160.000	143.3664(H)
	25 2,4-Dichlorophenol	162	8.353	8.299	(0.987)	2160849	160.000	154.5991
	26 Benzoic acid	122	8.537	8.360	(1.008)	1399205	160.000	159.3074(M)
	27 1,2,4-Trichlorobenzene	180	8.394	8.371	(0.992)	2681019	160.000	160.2378
*	28 Naphthalene-d8	136	8.465	8.442	(1.000)	1715408	40.0000	
	29 Naphthalene	128	8.506	8.473	(1.005)	5934151	160.000	144.3195
	30 4-Chloroaniline	127	8.588	8.544	(1.014)	2953259	160.000	174.0987(MH)
	31 Hexachlorobutadiene	225	8.629	8.606	(1.019)	1701523	160.000	156.3294
	32 4-Chloro-3-methylphenol	107	9.171	9.127	(1.083)	2054855	160.000	164.3200
	33 2-Methylnaphthalene	142	9.324	9.301	(1.101)	4679256	160.000	154.8440
	34 Hexachlorocyclopentadiene	237	9.498	9.485	(0.897)	1374460	160.000	168.9826
	35 2,4,6-Trichlorophenol	196	9.702	9.659	(0.916)	2014036	160.000	159.6531
	36 2,4,5-Trichlorophenol	196	9.753	9.710	(0.921)	1756333	160.000	140.6511(H)
$	37 2-Fluorobiphenyl	172	9.774	9.740	(0.923)	5266100	160.000	148.9897
	38 2-Chloronaphthalene	162	9.927	9.894	(0.937)	4324566	160.000	149.0856
	39 2-Nitroaniline	65	10.101	10.047	(0.954)	1339682	160.000	162.6628
	40 Dimethylphthalate	163	10.295	10.252	(0.972)	7058014	160.000	161.5581
	41 2,6-Dinitrotoluene	165	10.418	10.354	(0.984)	1535711	160.000	152.8149(H)
	42 Acenaphthylene	152	10.438	10.405	(0.986)	6348756	160.000	135.4360
	43 3-Nitroaniline	138	10.612	10.569	(1.002)	1357359	160.000	162.6108(M)
*	44 Acenaphthene-d10	164	10.592	10.569	(1.000)	1208977	40.0000	
	45 Acenaphthene	154	10.653	10.620	(1.006)	4006225	160.000	145.9866
	46 2,4-Dinitrophenol	184	10.776	10.691	(1.017)	1240116	160.000	158.8675
	47 4-Nitrophenol	109	10.888	10.793	(1.028)	919427	160.000	176.3919(H)
	48 Dibenzofuran	168	10.868	10.824	(1.026)	6167065	160.000	144.4967(H)
	49 2,4-Dinitrotoluene	165	10.939	10.855	(1.033)	2216820	160.000	167.7500
	50 Diethylphthalate	149	11.205	11.131	(1.058)	6115310	160.000	142.9068
	51 4-Chlorophenyl-phenylether	204	11.277	11.233	(1.065)	2719112	160.000	139.6944
	52 Fluorene	166	11.297	11.253	(1.067)	5093721	160.000	144.1802(M)
	53 4-Nitroaniline	138	11.451	11.366	(1.081)	1276143	160.000	160.4256(H)
	54 4,6-Dinitro-2-methylphenol	198	11.440	11.376	(0.920)	1302809	160.000	168.1665
	55 N-Nitrosodiphenylamine	169	11.461	11.407	(0.922)	3343056	160.000	151.6786
	56 Azobenzene	77	11.481	11.438	(0.924)	4906293	160.000	161.1717
$	57 2,4,6-Tribromophenol	330	11.594	11.550	(1.095)	1330355	160.000	159.2538
	58 4-Bromophenyl-phenylether	248	11.859	11.826	(0.954)	1951917	160.000	165.2446
	59 Hexachlorobenzene	284	11.982	11.938	(0.964)	2198271	160.000	155.4251
	60 Pentachlorophenol	266	12.217	12.174	(0.983)	1615773	160.000	176.1191
*	61 Phenanthrene-d10	188	12.432	12.388	(1.000)	2010546	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Report Date: 30-Nov-2004 10:50

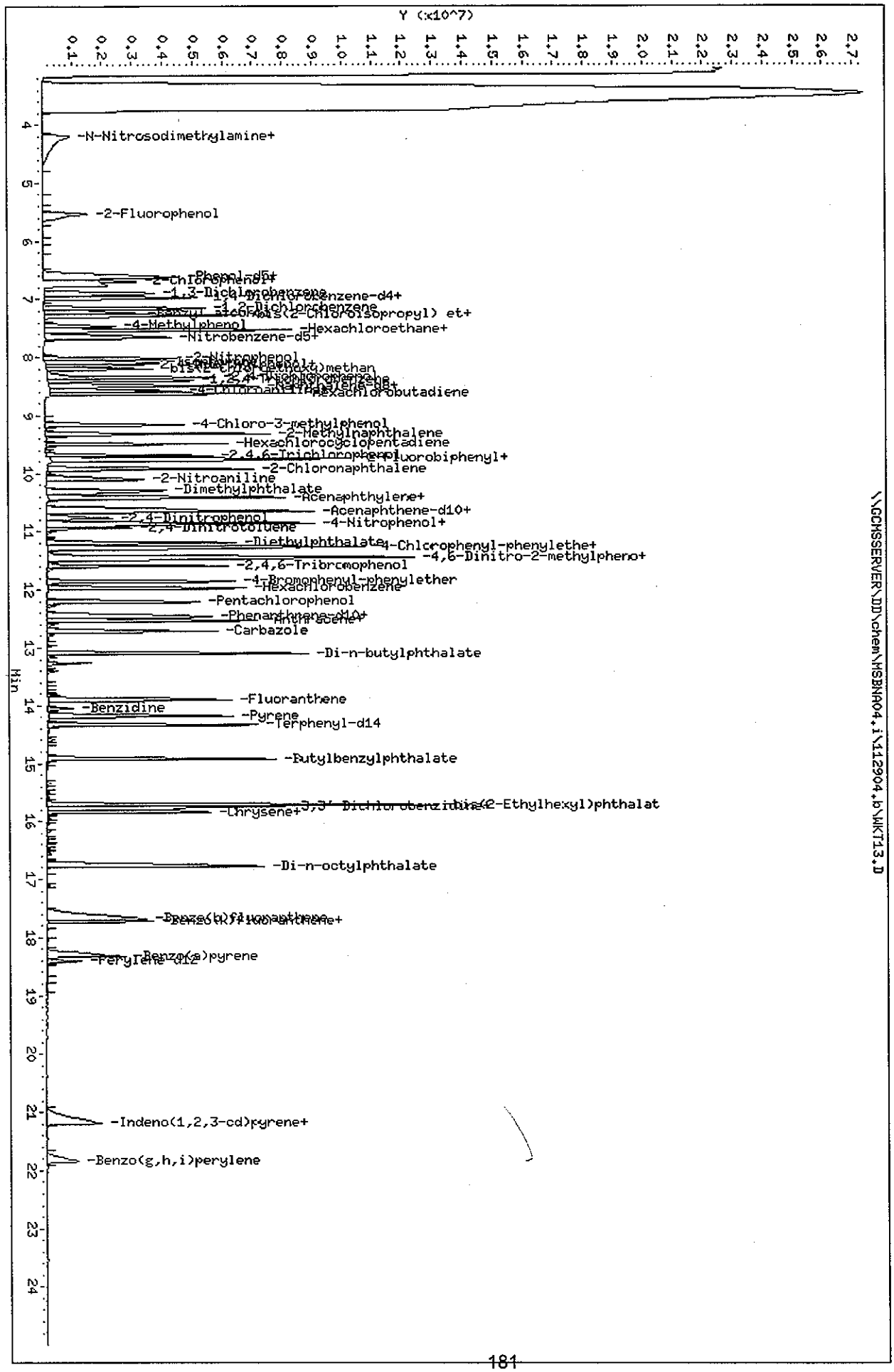
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.473	12.429	(1.003)	7264307	160.000	155.3668
63 Anthracene	178	12.534	12.491	(1.008)	6964404	160.000	150.2313 (H)
64 Carbazole	167	12.728	12.685	(1.024)	6179147	160.000	176.9662
65 Di-n-butylphthalate	149	13.107	13.073	(1.054)	9709682	160.000	135.7161
66 Fluoranthene	202	13.914	13.871	(1.119)	8174115	160.000	146.3439
67 Benzidine	184	14.047	14.014	(0.889)	426328	160.000	180.5983
68 Pyrene	202	14.190	14.157	(0.898)	8264288	160.000	179.4251
$ 69 Terphenyl-d14	244	14.344	14.321	(0.908)	6376154	160.000	177.7633
70 Butylbenzylphthalate	149	14.937	14.903	(0.946)	4795981	160.000	170.4113
71 3,3'-Dichlorobenzidine	252	15.755	15.690	(0.997)	2201666	160.000	175.8220
72 bis(2-Ethylhexyl)phthalate	149	15.724	15.690	(0.995)	5623053	160.000	151.0158
73 Benzo(a)anthracene	228	15.765	15.711	(0.998)	7808715	160.000	174.0549 (M)
* 74 Chrysene-d12	240	15.795	15.742	(1.000)	1424074	40.0000	
75 Chrysene	228	15.847	15.793	(1.003)	6324997	160.000	160.3233 (MH)
76 Di-n-octylphthalate	149	16.777	16.743	(0.911)	10448865	160.000	191.0833
77 Benzo(b)fluoranthene	252	17.677	17.612	(0.960)	7871631	160.000	193.1653
78 Benzo(k)fluoranthene	252	17.728	17.674	(0.963)	3752306	160.000	138.4505 (AMH)
79 Benzo(a)pyrene	252	18.331	18.277	(0.996)	4473457	160.000	169.4255
* 80 Perylene-d12	264	18.413	18.389	(1.000)	886036	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.163	21.129	(1.149)	3162520	160.000	118.3223
82 Dibenz(a,h)anthracene	278	21.193	21.170	(1.151)	2715085	160.000	126.0260
83 Benzo(g,h,i)perylene	276	21.848	21.835	(1.187)	2095636	160.000	95.3464

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT13.D
Date : 29-NOV-2004 16:37
Client ID: CURTIS&TOMPKINS
Sample Info: ICAL,04WS1862
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : 50ug/mL
Seqnum : 534481550014 Filename : wkt14 Injected : 29-NOV-2004 17:13
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS2061

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aniline	50.00000	54.69520	ng	9	30	
Benzyl alcohol	50.00000	50.70600	ng	1	30	
4-Chloroaniline	50.00000	54.66690	ng	9	30	
2-Methylnaphthalene	50.00000	55.44300	ng	11	30	
2-Nitroaniline	50.00000	54.00040	ng	8	30	
3-Nitroaniline	50.00000	61.59020	ng	23	30	!v+
Dibenzofuran	50.00000	57.26610	ng	15	30	
4-Nitroaniline	50.00000	57.77840	ng	16	30	

ISTD (CCV=wkt04)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	341343	366362	7.33	6.93	6.93	0.00
Naphthalene-d8	1193108	1302661	9.18	8.43	8.43	0.00
Acenaphthene-d10	786378	871258	10.79	10.56	10.56	0.00
Phenanthrene-d10	1427871	1571783	10.08	12.38	12.38	0.00
Chrysene-d12	1306789	1442009	10.35	15.72	15.71	-0.01
Perylene-d12	1138650	1165378	2.35	18.37	18.36	-0.01

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11/30/04

!=warning +=high bias v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT14.D
Report Date: 30-Nov-2004 10:58

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT14.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 17:13 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICV,04WS2061
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:52 target Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 4 Phenol-d5	99	6.925	6.551	(1.000)	8168	0.73414	0.7341(aQR)
5 Phenol	94	6.568	6.571	(0.948)	49512	4.16796	4.1679(aQ)
6 Aniline	66	6.568	6.581	(0.948)	280239	54.6952	54.6951(Q)
7 bis(2-Chloroethyl)ether	63	6.568	6.653	(0.948)	47055	6.09311	6.0931(Q)
* 10 1,4-Dichlorobenzene-d4	152	6.925	6.939	(1.000)	366362	40.0000	
12 Benzyl alcohol	108	7.099	7.133	(1.025)	353956	50.7060	50.7060
14 2-Methylphenol	107	7.099	7.236	(1.025)	261386	36.1990	36.1990(Q)
16 4-Methylphenol	107	7.099	7.450	(1.025)	261386	22.3730	22.3729(Q)
22 2-Nitrophenol	139	8.040	7.992	(0.954)	10059	1.28725	1.2872(aQ)
24 bis(2-Chloroethoxy)methane	93	8.520	8.156	(1.011)	7548	0.61725	0.6172(a)
* 28 Naphthalene-d8	136	8.428	8.442	(1.000)	1302661	40.0000	
30 4-Chloroaniline	127	8.520	8.544	(1.011)	704197	54.6669	54.6668
33 2-Methylnaphthalene	142	9.287	9.301	(1.102)	1272310	55.4430	55.4429
39 2-Nitroaniline	65	10.023	10.047	(0.950)	320508	54.0004	54.0003

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT14.D
Report Date: 30-Nov-2004 10:58

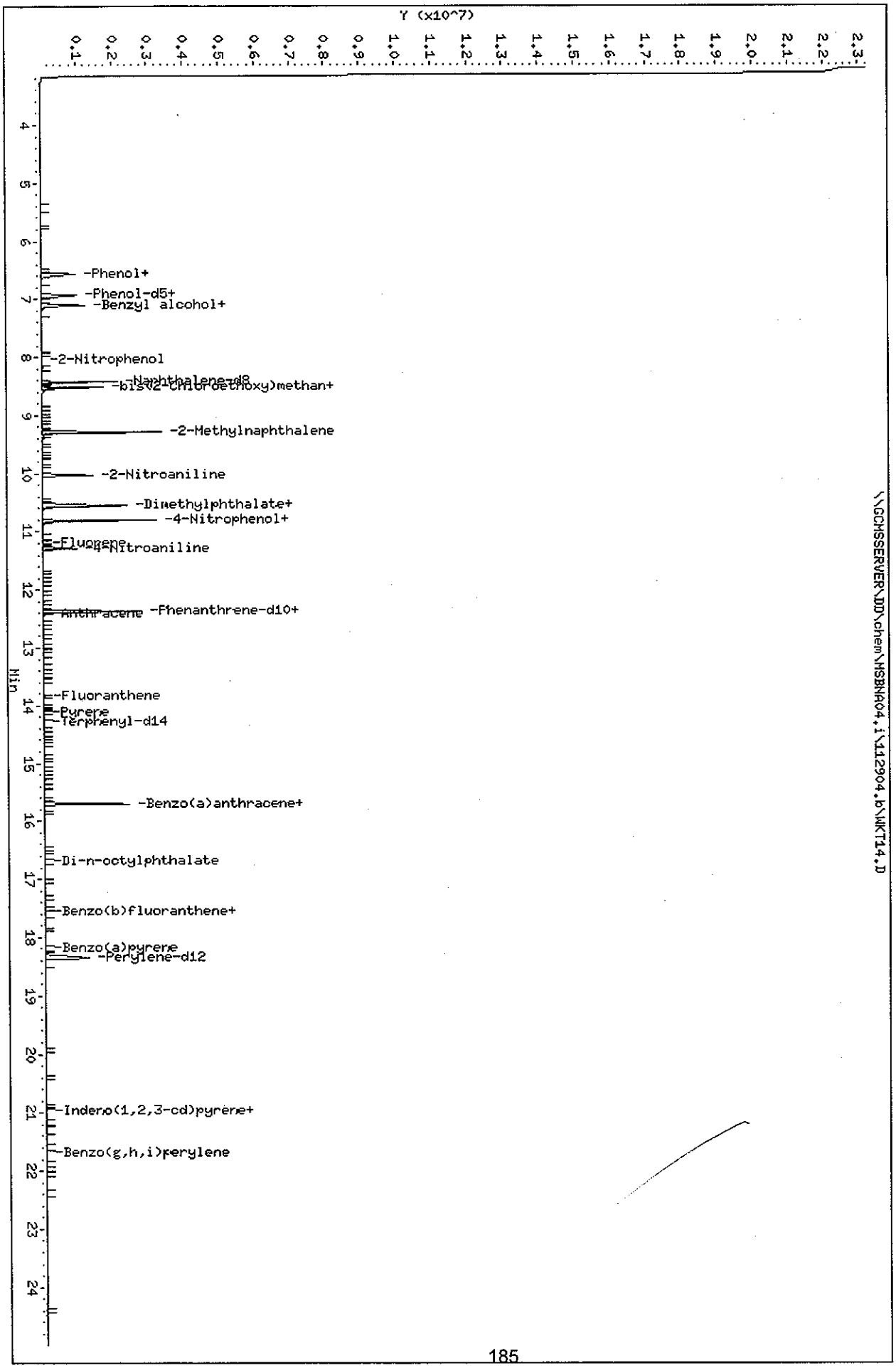
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	40 Dimethylphthalate	163	10.565	10.252	(1.001)	186829	5.93420	5.9341(Q)
	41 2,6-Dinitrotoluene	165	10.555	10.354	(1.000)	110752	15.2925	15.2925
	43 3-Nitroaniline	138	10.534	10.569	(0.998)	370498	61.5902	61.5902
*	44 Acenaphthene-d10	164	10.555	10.569	(1.000)	871258	40.0000	
	45 Acenaphthene	154	10.565	10.620	(1.001)	2995	0.15144	0.1514(a)
	47 4-Nitrophenol	109	10.810	10.793	(1.024)	7347	1.95588	1.9558(aQ)
	48 Dibenzofuran	168	10.810	10.824	(1.024)	1761354	57.2661	57.2660
	49 2,4-Dinitrotoluene	165	10.555	10.855	(1.000)	110752	11.6293	11.6293(Q)
	52 Fluorene	166	11.209	11.253	(1.062)	6309	0.24780	0.2478(a)
	53 4-Nitroaniline	138	11.281	11.366	(1.069)	331900	57.7784	57.7784
*	61 Phenanthrene-d10	188	12.374	12.388	(1.000)	1571783	40.0000	
	62 Phenanthrene	178	12.395	12.429	(1.002)	3572	0.09772	0.0977(aQ)
	63 Anthracene	178	12.446	12.491	(1.006)	3946	0.10888	0.1088(aQ)
	66 Fluoranthene	202	13.836	13.871	(1.118)	21224	0.48605	0.4860(a)
	68 Pyrene	202	14.112	14.157	(0.898)	4501	0.09651	0.0965(aQ)
$	69 Terphenyl-d14	244	14.286	14.321	(0.910)	4872	0.13414	0.1341(aR)
	73 Benzo(a)anthracene	228	15.666	15.711	(0.997)	8553	0.18827	0.1882(a)
*	74 Chrysene-d12	240	15.707	15.742	(1.000)	1442009	40.0000	
	75 Chrysene	228	15.728	15.793	(1.001)	7216	0.18063	0.1806(a)
	76 Di-n-octylphthalate	149	16.699	16.743	(0.910)	7322	0.10180	0.1018(a)
	77 Benzo(b)fluoranthene	252	17.558	17.612	(0.957)	8925	2.79887	2.7988(a)
	78 Benzo(k)fluoranthene	252	17.558	17.674	(0.957)	8925	0.25037	0.2503(a)
	79 Benzo(a)pyrene	252	18.181	18.277	(0.991)	7167	0.20638	0.2063(a)
*	80 Perylene-d12	264	18.355	18.389	(1.000)	1165378	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	20.972	21.129	(1.143)	7162	0.20373	0.2037(a)
	82 Dibenz(a,h)anthracene	278	21.023	21.170	(1.145)	6142	0.21676	0.2167(a)
	83 Benzo(g,h,i)perylene	276	21.698	21.835	(1.182)	6736	0.23301	0.2330(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT14.D
Date : 29-NOV-2004 17:13
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,04WS2061
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : 50ug/mL
Seqnum : 534481550015 Filename : wkt15 Injected : 29-NOV-2004 17:48
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS2062

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
N-Nitrosodimethylamine	50.00000	52.38990	ng	5	30	m
Pyridine	50.00000	56.61800	ng	13	30	m
Phenol	50.00000	49.77210	ng	0	20	
bis(2-Chloroethyl)ether	50.00000	50.74200	ng	1	30	
2-Chlorophenol	50.00000	52.43500	ng	5	30	
1,3-Dichlorobenzene	50.00000	51.46240	ng	3	30	
1,4-Dichlorobenzene	50.00000	51.92870	ng	4	20	
1,2-Dichlorobenzene	50.00000	52.67680	ng	5	30	
2-Methylphenol	50.00000	56.16390	ng	12	30	
bis(2-Chloroisopropyl) ether	50.00000	55.17140	ng	10	30	
4-Methylphenol	50.00000	53.58120	ng	7	30	
N-Nitroso-di-n-propylamine	50.00000	57.60220	ng	15	30	
Hexachloroethane	50.00000	56.29290	ng	13	30	
Nitrobenzene	50.00000	53.02430	ng	6	30	
Isophorone	50.00000	57.54280	ng	15	30	
2-Nitrophenol	50.00000	51.58730	ng	3	20	
2,4-Dimethylphenol	50.00000	55.94110	ng	12	30	
bis(2-Chloroethoxy)methane	50.00000	52.45930	ng	5	30	
Benzoic acid	50.00000	58.38250	ng	17	40	
2,4-Dichlorophenol	50.00000	55.22840	ng	10	20	
1,2,4-Trichlorobenzene	50.00000	52.77720	ng	6	30	
Naphthalene	50.00000	56.14570	ng	12	30	
Hexachlorobutadiene	50.00000	53.67360	ng	7	20	
4-Chloro-3-methylphenol	50.00000	55.01280	ng	10	20	
Hexachlorocyclopentadiene	50.00000	56.47260	ng	13	40	
2,4,6-Trichlorophenol	50.00000	58.08330	ng	16	20	
2,4,5-Trichlorophenol	50.00000	56.22090	ng	12	30	
2-Chloronaphthalene	50.00000	57.83170	ng	16	30	
Dimethylphthalate	50.00000	54.67580	ng	9	30	
2,6-Dinitrotoluene	50.00000	54.10720	ng	8	30	
Acenaphthylene	50.00000	58.30070	ng	17	30	
Acenaphthene	50.00000	56.50180	ng	13	20	
2,4-Dinitrophenol	50.00000	49.77620	ng	0	40	
4-Nitrophenol	50.00000	49.52030	ng	-1	40	
2,4-Dinitrotoluene	50.00000	55.08120	ng	10	30	
Diethylphthalate	50.00000	57.58100	ng	15	30	
Fluorene	50.00000	56.58560	ng	13	30	
4-Chlorophenyl-phenylether	50.00000	58.71220	ng	17	40	
4,6-Dinitro-2-methylphenol	50.00000	58.72840	ng	17	30	
N-Nitrosodiphenylamine	50.00000	42.94800	ng	-14	20	
Azobenzene	50.00000	53.17480	ng	6	30	
4-Bromophenyl-phenylether	50.00000	56.21490	ng	12	30	
Hexachlorobenzene	50.00000	56.65150	ng	13	30	
Pentachlorophenol	50.00000	51.34250	ng	3	20	
Phenanthrene	50.00000	58.29550	ng	17	30	
Anthracene	50.00000	58.90140	ng	18	30	
Carbazole	50.00000	41.92130	ng	-16	30	

+=high bias m=manual integration v=ICV

186 11/30/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534481550015
Calnum : 534481550001
Standards: 04WS2062

Run Name : 50ug/mL
Filename : wkt15
Caldate : 29-NOV-2004

Injected : 29-NOV-2004 17:48
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Di-n-butylphthalate	50.00000	58.31040	ng	17	30	
Fluoranthene	50.00000	56.68090	ng	13	20	
Benzidine	50.00000	146.1556	ng	192	40	v+ *** M
Pyrene	50.00000	53.24730	ng	6	30	
Butylbenzylphthalate	50.00000	54.45980	ng	9	30	
3,3'-Dichlorobenzidine	50.00000	54.71540	ng	9	40	
Benzo(a)anthracene	50.00000	52.50990	ng	5	30	
bis(2-Ethylhexyl)phthalate	50.00000	58.62170	ng	17	30	
Chrysene	50.00000	54.87170	ng	10	30	
Di-n-octylphthalate	50.00000	51.91360	ng	4	20	
Benzo(b)fluoranthene	50.00000	45.95830	ng	-8	30	
Benzo(k)fluoranthene	50.00000	58.94260	ng	18	30	
Benzo(a)pyrene	50.00000	56.79210	ng	14	20	
Indeno(1,2,3-cd)pyrene	50.00000	53.86060	ng	8	30	
Dibenz(a,h)anthracene	50.00000	57.34640	ng	15	30	
Benzo(g,h,i)perylene	50.00000	49.93590	ng	0	30	
2-Fluorophenol	50.00000	52.12560	ng	4	30	
Phenol-d5	50.00000	52.01270	ng	4	30	
Nitrobenzene-d5	50.00000	53.45110	ng	7	30	
2-Fluorobiphenyl	50.00000	58.45750	ng	17	30	
2,4,6-Tribromophenol	50.00000	50.16240	ng	0	30	
Terphenyl-d14	50.00000	51.00920	ng	2	30	

ISTD (CCV=wkt04)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	341343	289894	-15.07	6.93	6.94	0.01
Naphthalene-d8	1193108	1031042	-13.58	8.43	8.43	0.00
Acenaphthene-d10	786378	690773	-12.16	10.56	10.57	0.01
Phenanthrene-d10	1427871	1208741	-15.35	12.38	12.38	0.00
Chrysene-d12	1306789	1093061	-16.36	15.72	15.72	0.00
Perylene-d12	1138650	879010	-22.80	18.37	18.37	0.00

11/30/

+=high bias m=manual integration v=ICV

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT15.D
Report Date: 30-Nov-2004 10:59

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT15.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 29-NOV-2004 17:48 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : ICV,04WS2062
Misc Info : 50ug/mL NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\6PTBNA4.m
Meth Date : 30-Nov-2004 10:52 target Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSBNA01

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	1 N-Nitrosodimethylamine	74	4.176	4.179	(0.602)	196325	52.3899	52.3899(M)
	2 Pyridine	79	4.186	4.199	(0.604)	340012	56.6180	56.6179(M)
$	3 2-Fluorophenol	112	5.515	5.508	(0.795)	388127	52.1256	52.1255
$	4 Phenol-d5	99	6.527	6.551	(0.941)	457903	52.0127	52.0127
	5 Phenol	94	6.548	6.571	(0.944)	467844	49.7721	49.7720(Q)
	7 bis(2-Chloroethyl)ether	63	6.640	6.653	(0.957)	310072	50.7420	50.7419(Q)
	8 2-Chlorophenol	128	6.711	6.725	(0.968)	480721	52.4350	52.4350
	9 1,3-Dichlorobenzene	146	6.875	6.878	(0.991)	527378	51.4624	51.4624
*	10 1,4-Dichlorobenzene-d4	152	6.936	6.939	(1.000)	289894	40.0000	
	11 1,4-Dichlorobenzene	146	6.956	6.960	(1.003)	524432	51.9287	51.9286
	12 Benzyl alcohol	108	7.120	7.133	(1.027)	10751	1.94639	1.9463(aQ)
	13 1,2-Dichlorobenzene	146	7.130	7.133	(1.028)	502776	52.6768	52.6768
	14 2-Methylphenol	107	7.222	7.236	(1.041)	320901	56.1639	56.1638
	15 bis(2-Chloroisopropyl) ether	45	7.243	7.256	(1.044)	773596	55.1714	55.1713

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT15.D
Report Date: 30-Nov-2004 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
	16 4-Methylphenol	107	7.417	7.450	(1.069)	495336	53.5812	53.5811
	17 N-Nitroso-di-n-propylamine	70	7.437	7.471	(1.072)	256631	57.6022	57.6021
	18 Hexachloroethane	117	7.519	7.522	(1.084)	239046	56.2929	56.2929
$	19 Nitrobenzene-d5	82	7.590	7.614	(0.901)	435718	53.4511	53.4511
	20 Nitrobenzene	77	7.611	7.634	(0.903)	395665	53.0243	53.0242
	21 Isophorone	82	7.907	7.982	(0.938)	916053	57.5428	57.5428
	22 2-Nitrophenol	139	7.979	7.992	(0.947)	319065	51.5873	51.5872
	23 2,4-Dimethylphenol	122	8.040	8.064	(0.954)	354653	55.9411	55.9410
	24 bis(2-Chloroethoxy)methane	93	8.132	8.156	(0.965)	507735	52.4593	52.4592
	25 2,4-Dichlorophenol	162	8.275	8.299	(0.982)	463969	55.2284	55.2284
	26 Benzoic acid	122	8.275	8.360	(0.982)	230602	58.3825	58.3825
	27 1,2,4-Trichlorobenzene	180	8.367	8.371	(0.993)	530750	52.7772	52.7772
*	28 Naphthalene-d8	136	8.429	8.442	(1.000)	1031042	40.0000	
	29 Naphthalene	128	8.459	8.473	(1.004)	1387582	56.1457	56.1456
	31 Hexachlorobutadiene	225	8.602	8.606	(1.021)	351129	53.6736	53.6736
	32 4-Chloro-3-methylphenol	107	9.103	9.127	(1.080)	413488	55.0128	55.0127
	34 Hexachlorocyclopentadiene	237	9.471	9.485	(0.896)	262449	56.4726	56.4725
	35 2,4,6-Trichlorophenol	196	9.635	9.659	(0.912)	418657	58.0833	58.0833
	36 2,4,5-Trichlorophenol	196	9.686	9.710	(0.917)	401124	56.2209	56.2208
$	37 2-Fluorobiphenyl	172	9.727	9.740	(0.921)	1180567	58.4575	58.4575(R)
	38 2-Chloronaphthalene	162	9.880	9.894	(0.935)	958496	57.8317	57.8317
	40 Dimethylphthalate	163	10.238	10.252	(0.969)	1364792	54.6758	54.6758
	41 2,6-Dinitrotoluene	165	10.320	10.354	(0.977)	310682	54.1072	54.1071
	42 Acenaphthylene	152	10.392	10.405	(0.984)	1561511	58.3007	58.3006
*	44 Acenaphthene-d10	164	10.565	10.569	(1.000)	690773	40.0000	
	45 Acenaphthene	154	10.606	10.620	(1.004)	885935	56.5018	56.5018
	46 2,4-Dinitrophenol	184	10.657	10.691	(1.009)	165255	49.7762	49.7762
	47 4-Nitrophenol	109	10.749	10.793	(1.017)	147482	49.5203	49.5203(Q)
	49 2,4-Dinitrotoluene	165	10.811	10.855	(1.023)	415900	55.0812	55.0812
	50 Diethylphthalate	149	11.097	11.131	(1.050)	1407869	57.5810	57.5810
	51 4-Chlorophenyl-phenylether	204	11.220	11.233	(1.062)	652971	58.7122	58.7122
	52 Fluorene	166	11.230	11.253	(1.063)	1142227	56.5856	56.5855
	54 4,6-Dinitro-2-methylphenol	198	11.322	11.376	(0.915)	273532	58.7284	58.7283(Q)
	55 N-Nitrosodiphenylamine	169	11.373	11.407	(0.919)	569091	42.9480	42.9480
	56 Azobenzene	77	11.414	11.438	(0.922)	973172	53.1748	53.1747
$	57 2,4,6-Tribromophenol	330	11.537	11.550	(1.092)	239427	50.1624	50.1623
	58 4-Bromophenyl-phenylether	248	11.813	11.826	(0.955)	399213	56.2149	56.2149
	59 Hexachlorobenzene	284	11.915	11.938	(0.963)	481715	56.6515	56.6514
	60 Pentachlorophenol	266	12.160	12.174	(0.983)	283185	51.3425	51.3425
*	61 Phenanthrene-d10	188	12.375	12.388	(1.000)	1208741	40.0000	
	62 Phenanthrene	178	12.406	12.429	(1.002)	1638665	58.2955	58.2955
	63 Anthracene	178	12.477	12.491	(1.008)	1641603	58.9014	58.9013
	64 Carbazole	167	12.661	12.685	(1.023)	880019	41.9213	41.9213
	65 Di-n-butylphthalate	149	13.060	13.073	(1.055)	2508065	58.3104	58.3104
	66 Fluoranthene	202	13.857	13.871	(1.120)	1903363	56.6809	56.6808
	67 Benzidine	184	14.011	14.014	(0.891)	264824	146.156	146.1555
	68 Pyrene	202	14.133	14.157	(0.899)	1882485	53.2473	53.2472

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT15.D
Report Date: 30-Nov-2004 10:59

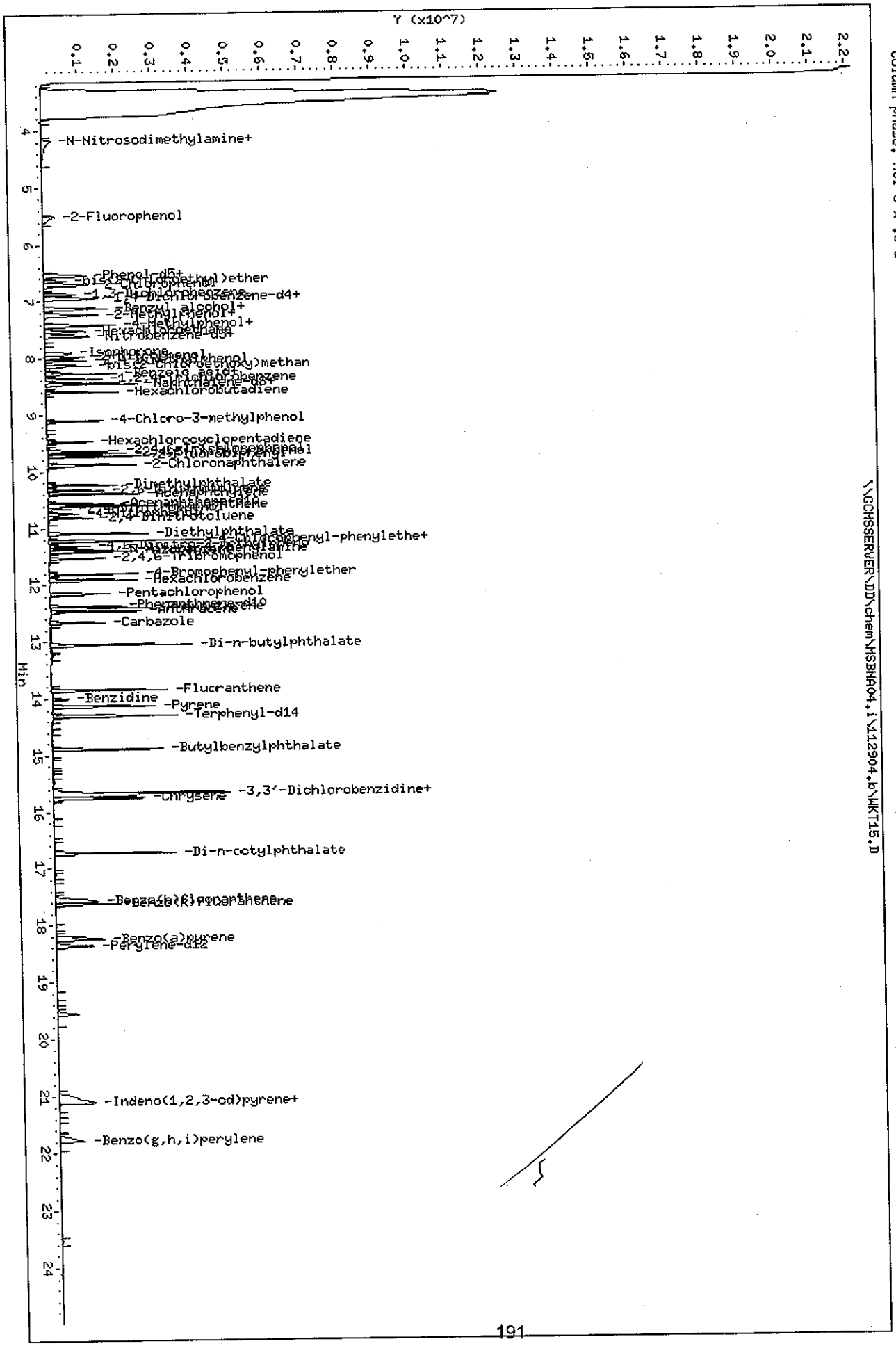
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
$ 69 Terphenyl-d14	244	14.307	14.321	(0.910)	1404356	51.0092	51.0092
70 Butylbenzylphthalate	149	14.890	14.903	(0.947)	1176432	54.4598	54.4598
71 3,3'-Dichlorobenzidine	252	15.657	15.690	(0.996)	525896	54.7154	54.7154
72 bis(2-Ethylhexyl)phthalate	149	15.677	15.690	(0.997)	1675406	58.6217	58.6217
73 Benzo(a)anthracene	228	15.697	15.711	(0.999)	1808200	52.5099	52.5099
* 74 Chrysene-d12	240	15.718	15.742	(1.000)	1093061	40.0000	
75 Chrysene	228	15.769	15.793	(1.003)	1661589	54.8717	54.8716
76 Di-n-octylphthalate	149	16.730	16.743	(0.911)	2816243	51.9136	51.9136
77 Benzo(b)fluoranthene	252	17.568	17.612	(0.957)	1826054	45.9583	45.9582
78 Benzo(k)fluoranthene	252	17.619	17.674	(0.959)	1584804	58.9426	58.9426
79 Benzo(a)pyrene	252	18.243	18.277	(0.993)	1487630	56.7921	56.7921
* 80 Perylene-d12	264	18.366	18.389	(1.000)	879010	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.055	21.129	(1.146)	1428172	53.8606	53.8606
82 Dibenz(a,h)anthracene	278	21.106	21.170	(1.149)	1225665	57.3464	57.3464
83 Benzo(g,h,i)perylene	276	21.780	21.835	(1.186)	1088847	49.9359	49.9359

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\112904.b\WKT15.D
Date : 29-NOV-2004 17:48
Client ID: CURTIS&TOMPKINS
Sample Info: ICV,04WS2062
Volume Injected (uL): 1.0
Column phase: Xti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534483105002
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wku02
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 12:02
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5171	0.5376	50.00000	51.98810	ng	4	30	0.0500	
Pyridine	0.8286	0.8630	50.00000	52.07470	ng	4	30	0.0500	m
Phenol	1.2970	1.2730	50.00000	49.07700	ng	-2	20	0.0500	
Aniline	0.5594	1.0357	50.00000	92.57110	ng	85	30	0.0500	c+ rsd
bis(2-Chloroethyl)ether	0.8432	0.7966	50.00000	47.23970	ng	-6	30	0.0500	
2-Chlorophenol	1.2650	1.3100	50.00000	51.78010	ng	4	30	0.0500	
1,3-Dichlorobenzene	1.4140	1.4498	50.00000	51.26440	ng	3	30	0.0500	
1,4-Dichlorobenzene	1.3935	1.4508	50.00000	52.05750	ng	4	20	0.0500	
Benzyl alcohol	0.7621	0.7343	50.00000	48.17030	ng	-4	30	0.0500	
1,2-Dichlorobenzene	1.3170	1.3442	50.00000	51.03480	ng	2	30	0.0500	
2-Methylphenol	0.7884	0.7944	50.00000	50.38220	ng	1	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9347	1.9656	50.00000	50.79870	ng	2	30	0.0500	
4-Methylphenol	1.2756	1.1995	50.00000	47.01700	ng	-6	30	0.0500	
N-Nitroso-di-n-propylamine	0.6147	0.6007	50.00000	48.86220	ng	-2	30	0.0500	
Hexachloroethane	0.5859	0.6106	50.00000	52.10240	ng	4	30	0.0500	
Nitrobenzene	0.2895	0.3089	50.00000	53.35680	ng	7	30	0.0500	
Isophorone	0.6176	0.6705	50.00000	54.28560	ng	9	30	0.0500	
2-Nitrophenol	0.2399	0.2513	50.00000	52.35570	ng	5	20	0.0500	
2,4-Dimethylphenol	0.2460	0.2548	50.00000	51.79720	ng	4	30	0.0500	
bis(2-Chloroethoxy)methane	0.3755	0.3891	50.00000	51.80880	ng	4	30	0.0500	
Benzoic acid	0.1204	0.2094	50.00000	66.08340	ng	32	40	0.0500	!c+ m
2,4-Dichlorophenol	0.3259	0.3571	50.00000	54.77910	ng	10	20	0.0500	
1,2,4-Trichlorobenzene	0.3901	0.4231	50.00000	54.22400	ng	8	30	0.0500	
Naphthalene	0.9588	1.0094	50.00000	52.63820	ng	5	30	0.0500	
4-Chloroaniline	0.3955	0.4300	50.00000	54.35930	ng	9	30	0.0500	
Hexachlorobutadiene	0.2538	0.2778	50.00000	54.72010	ng	9	20	0.0500	
4-Chloro-3-methylphenol	0.2916	0.3094	50.00000	53.04680	ng	6	20	0.0500	
2-Methylnaphthalene	0.7047	0.7473	50.00000	53.02330	ng	6	30	0.0500	
Hexachlorocyclopentadiene	0.2691	0.2387	50.00000	44.34910	ng	-11	40	0.0500	
2,4,6-Trichlorophenol	0.4174	0.4822	50.00000	57.76090	ng	16	20	0.0500	
2,4,5-Trichlorophenol	0.4131	0.4829	50.00000	58.43950	ng	17	30	0.0500	
2-Chloronaphthalene	0.9597	1.0704	50.00000	55.76770	ng	12	30	0.0500	
2-Nitroaniline	0.2725	0.2983	50.00000	54.73920	ng	9	30	0.0500	
Dimethylphthalate	1.4454	1.5611	50.00000	54.00280	ng	8	30	0.0500	
2,6-Dinitrotoluene	0.3325	0.3807	50.00000	57.24880	ng	14	30	0.0500	
Acenaphthylene	1.5509	1.7619	50.00000	56.80130	ng	14	30	0.0500	
3-Nitroaniline	0.2762	0.3232	50.00000	58.50890	ng	17	30	0.0500	
Acenaphthene	0.9080	0.9836	50.00000	54.16460	ng	8	20	0.0500	
2,4-Dinitrophenol	0.2094	0.1583	50.00000	43.06480	ng	-14	40	0.0500	
4-Nitrophenol	0.1725	0.1874	50.00000	54.33810	ng	9	40	0.0500	
Dibenzofuran	1.4121	1.5494	50.00000	54.86020	ng	10	30	0.0500	
2,4-Dinitrotoluene	0.4372	0.4645	50.00000	53.11290	ng	6	30	0.0500	
Diethylphthalate	1.4158	1.5947	50.00000	56.31850	ng	13	30	0.0500	
Fluorene	1.1689	1.2257	50.00000	52.42880	ng	5	30	0.0500	
4-Chlorophenyl-phenylether	0.6440	0.6904	50.00000	53.60370	ng	7	40	0.0500	
4-Nitroaniline	0.2328	0.2667	50.00000	50.91340	ng	2	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

193 12/01/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534483105002
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wku02
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 12:02
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1541	0.1402	50.00000	45.47180	ng	-9	30	0.0500	
N-Nitrosodiphenylamine	0.4385	0.4741	50.00000	54.05880	ng	8	20	0.0500	
Azobenzene	0.6056	0.5730	50.00000	47.30470	ng	-5	30	0.0500	
4-Bromophenyl-phenylether	0.2350	0.2528	50.00000	53.79440	ng	8	30	0.0500	
Hexachlorobenzene	0.2814	0.3043	50.00000	54.07940	ng	8	30	0.0500	
Pentachlorophenol	0.1825	0.1846	50.00000	50.58240	ng	1	20	0.0500	
Phenanthrene	0.9302	0.9883	50.00000	53.12170	ng	6	30	0.0500	
Anthracene	0.9223	0.9868	50.00000	53.49970	ng	7	30	0.0500	
Carbazole	0.6947	0.6904	50.00000	49.69430	ng	-1	30	0.0500	
Di-n-butylphthalate	1.4234	1.5680	50.00000	55.07950	ng	10	30	0.0500	
Fluoranthene	1.1113	1.1936	50.00000	53.70380	ng	7	20	0.0500	
Benzidine	0.0663	0.0163	50.00000	12.29310	ng	-75	40	0.0500	c- crf
Pyrene	1.2937	1.3840	50.00000	53.48820	ng	7	30	0.0500	
Butylbenzylphthalate	0.7905	0.8516	50.00000	53.86340	ng	8	30	0.0500	
3,3'-Dichlorobenzidine	0.3517	0.4213	50.00000	59.88570	ng	20	40	0.0500	
Benzo(a)anthracene	1.2601	1.2335	50.00000	48.94440	ng	-2	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0459	1.0442	50.00000	49.92020	ng	0	30	0.0500	
Chrysene	1.1081	1.2145	50.00000	54.80000	ng	10	30	0.0500	
Di-n-octylphthalate	2.4686	2.3493	50.00000	47.58380	ng	-5	20	0.0500	
Benzo(b)fluoranthene	1.5347	1.6095	50.00000	44.58020	ng	-11	30	0.0500	m
Benzo(k)fluoranthene	1.2235	1.3113	50.00000	53.58630	ng	7	30	0.0500	
Benzo(a)pyrene	1.1920	1.2118	50.00000	50.83040	ng	2	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2066	1.3925	50.00000	57.70170	ng	15	30	0.0500	
Dibenz(a,h)anthracene	0.9726	1.1073	50.00000	56.92400	ng	14	30	0.0500	
Benzo(g,h,i)perylene	0.9922	1.1137	50.00000	56.12180	ng	12	30	0.0500	
2-Fluorophenol	1.0274	1.0940	50.00000	53.24220	ng	6	30	0.0500	
Phenol-d5	1.2147	1.2336	50.00000	50.77680	ng	2	30	0.0500	
Nitrobenzene-d5	0.3163	0.3354	50.00000	53.02840	ng	6	30	0.0500	
2-Fluorobiphenyl	1.1694	1.3196	50.00000	56.42070	ng	13	30	0.0500	
2,4,6-Tribromophenol	0.2764	0.3031	50.00000	54.83040	ng	10	30	0.0500	
Terphenyl-d14	1.0075	1.0326	50.00000	51.24430	ng	2	30	0.0500	

12/01/04

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU02.D
Report Date: 30-Nov-2004 12:35

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU02.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 12:02 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : CCV,04WS1859
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 13:04 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.157	4.157	(0.601)	206479	80.0000	51.9880
2 Pyridine	79	4.177	4.177	(0.604)	331444	80.0000	52.0747(M)
$ 3 2-Fluorophenol	112	5.496	5.496	(0.795)	420168	80.0000	53.2421
$ 4 Phenol-d5	99	6.519	6.519	(0.942)	473776	80.0000	50.7767
5 Phenol	94	6.539	6.539	(0.945)	488920	80.0000	49.0770
6 Aniline	66	6.539	6.539	(0.945)	397766	80.0000	92.5710(Q)
7 bis(2-Chloroethyl)ether	63	6.621	6.621	(0.957)	305947	80.0000	47.2396
8 2-Chlorophenol	128	6.692	6.692	(0.967)	503128	80.0000	51.7800
9 1,3-Dichlorobenzene	146	6.856	6.856	(0.991)	556790	80.0000	51.2643
* 10 1,4-Dichlorobenzene-d4	152	6.917	6.917	(1.000)	307244	40.0000	
11 1,4-Dichlorobenzene	146	6.938	6.938	(1.003)	557198	80.0000	52.0574
12 Benzyl alcohol	108	7.091	7.091	(1.025)	281995	80.0000	48.1702
13 1,2-Dichlorobenzene	146	7.112	7.112	(1.028)	516256	80.0000	51.0347
14 2-Methylphenol	107	7.214	7.214	(1.043)	305095	80.0000	50.3821

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU02.D
Report Date: 30-Nov-2004 12:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.224	7.224	(1.044)	754913	80.0000	50.7986
	16 4-Methylphenol	107	7.408	7.408	(1.071)	460667	80.0000	47.0170
	17 N-Nitroso-di-n-propylamine	70	7.428	7.428	(1.074)	230721	80.0000	48.8621
	18 Hexachloroethane	117	7.500	7.500	(1.084)	234493	80.0000	52.1024
$	19 Nitrobenzene-d5	82	7.572	7.572	(0.900)	430557	80.0000	53.0283
	20 Nitrobenzene	77	7.602	7.602	(0.904)	396567	80.0000	53.3568
	21 Isophorone	82	7.889	7.889	(0.938)	860772	80.0000	54.2856
	22 2-Nitrophenol	139	7.970	7.970	(0.948)	322533	80.0000	52.3556
	23 2,4-Dimethylphenol	122	8.021	8.021	(0.954)	327079	80.0000	51.7971(Q)
	24 bis(2-Chloroethoxy)methane	93	8.124	8.124	(0.966)	499450	80.0000	51.8087
	25 2,4-Dichlorophenol	162	8.267	8.267	(0.983)	458369	80.0000	54.7791
	26 Benzoic acid	122	8.277	8.277	(0.984)	268746	80.0000	66.0833(M)
	27 1,2,4-Trichlorobenzene	180	8.349	8.349	(0.993)	543136	80.0000	54.2239
*	28 Naphthalene-d8	136	8.410	8.410	(1.000)	1026952	40.0000	
	29 Naphthalene	128	8.441	8.441	(1.004)	1295738	80.0000	52.6382
	30 4-Chloroaniline	127	8.512	8.512	(1.012)	552030	80.0000	54.3593
	31 Hexachlorobutadiene	225	8.584	8.584	(1.021)	356555	80.0000	54.7200
	32 4-Chloro-3-methylphenol	107	9.095	9.095	(1.081)	397130	80.0000	53.0468
	33 2-Methylnaphthalene	142	9.269	9.269	(1.102)	959249	80.0000	53.0232
	34 Hexachlorocyclopentadiene	237	9.463	9.463	(0.897)	201781	80.0000	44.3491
	35 2,4,6-Trichlorophenol	196	9.626	9.626	(0.913)	407595	80.0000	57.7608
	36 2,4,5-Trichlorophenol	196	9.678	9.678	(0.918)	408202	80.0000	58.4394
$	37 2-Fluorobiphenyl	172	9.719	9.719	(0.921)	1115517	80.0000	56.4206
	38 2-Chloronaphthalene	162	9.862	9.862	(0.935)	904888	80.0000	55.7677
	39 2-Nitroaniline	65	10.015	10.015	(0.950)	252184	80.0000	54.7392
	40 Dimethylphthalate	163	10.219	10.219	(0.969)	1319700	80.0000	54.0027
	41 2,6-Dinitrotoluene	165	10.311	10.311	(0.978)	321822	80.0000	57.2488
	42 Acenaphthylene	152	10.373	10.373	(0.984)	1489423	80.0000	56.8013
	43 3-Nitroaniline	138	10.526	10.526	(0.998)	273195	80.0000	58.5089
*	44 Acenaphthene-d10	164	10.547	10.547	(1.000)	676275	40.0000	
	45 Acenaphthene	154	10.587	10.587	(1.004)	831464	80.0000	54.1646
	46 2,4-Dinitrophenol	184	10.649	10.649	(1.010)	133778	80.0000	43.0648
	47 4-Nitrophenol	109	10.741	10.741	(1.018)	158434	80.0000	54.3381(QH)
	48 Dibenzofuran	168	10.792	10.792	(1.023)	1309735	80.0000	54.8602
	49 2,4-Dinitrotoluene	165	10.802	10.802	(1.024)	392621	80.0000	53.1129
	50 Diethylphthalate	149	11.078	11.078	(1.050)	1348099	80.0000	56.3184
	51 4-Chlorophenyl-phenylether	204	11.201	11.201	(1.062)	583644	80.0000	53.6037
	52 Fluorene	166	11.211	11.211	(1.063)	1036106	80.0000	52.4287
	53 4-Nitroaniline	138	11.293	11.293	(1.071)	225492	80.0000	50.9134
	54 4,6-Dinitro-2-methylphenol	198	11.313	11.313	(0.916)	217064	80.0000	45.4717(Q)
	55 N-Nitrosodiphenylamine	169	11.364	11.364	(0.920)	734160	80.0000	54.0588
	56 Azobenzene	77	11.395	11.395	(0.922)	887307	80.0000	47.3046
$	57 2,4,6-Tribromophenol	330	11.518	11.518	(1.092)	256215	80.0000	54.8304
	58 4-Bromophenyl-phenylether	248	11.794	11.794	(0.954)	391540	80.0000	53.7944
	59 Hexachlorobenzene	284	11.896	11.896	(0.963)	471299	80.0000	54.0793
	60 Pentachlorophenol	266	12.141	12.141	(0.983)	285942	80.0000	50.5823
*	61 Phenanthrene-d10	188	12.356	12.356	(1.000)	1238851	40.0000	

Metabolites

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU02.D
Report Date: 30-Nov-2004 12:35

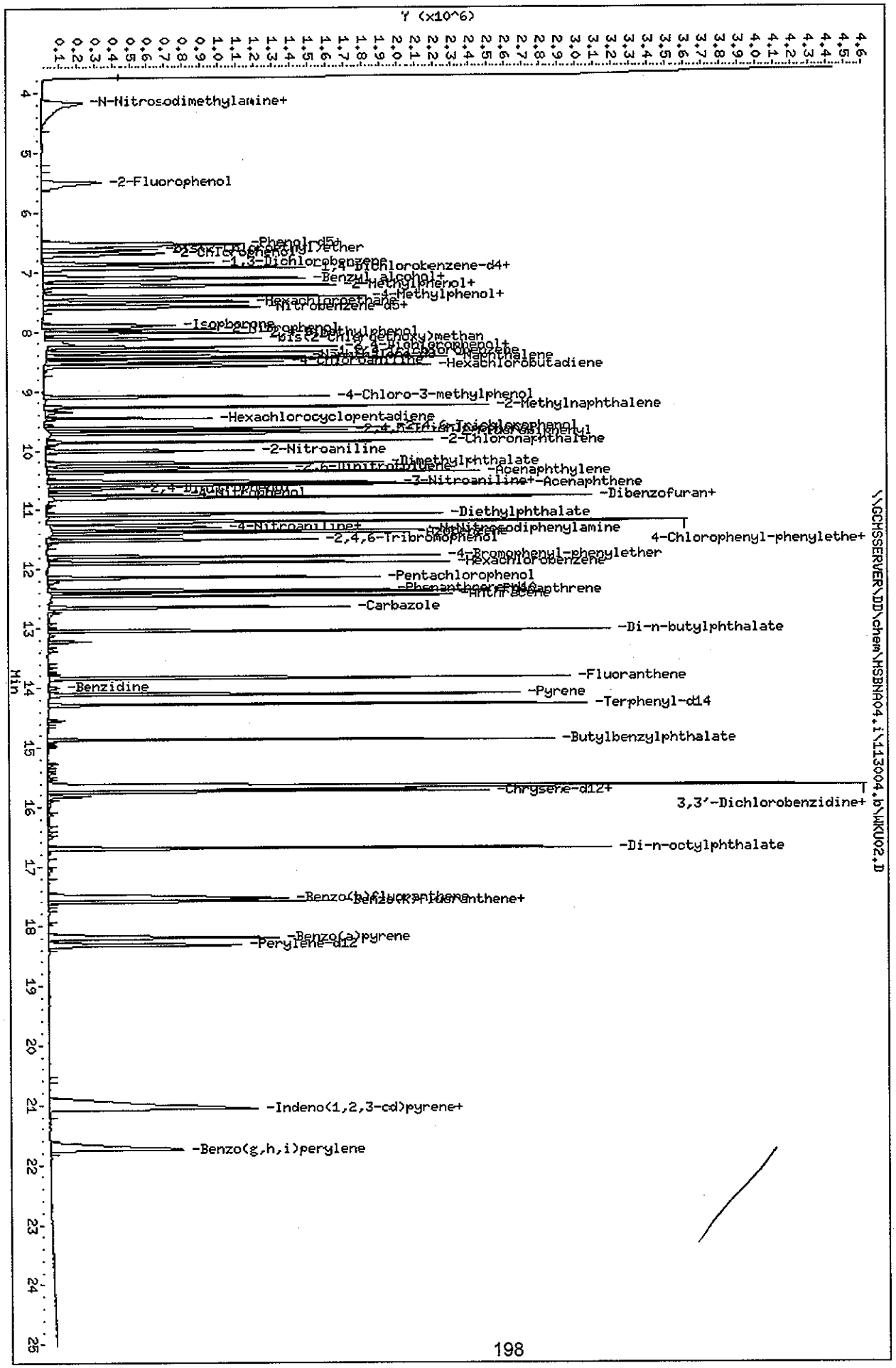
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
62 Phenanthrene	178	12.387	12.387	(1.002)	1530428	80.0000	53.1217
63 Anthracene	178	12.458	12.458	(1.008)	1528199	80.0000	53.4997
64 Carbazole	167	12.642	12.642	(1.023)	1069177	80.0000	49.6942
65 Di-n-butylphthalate	149	13.041	13.041	(1.055)	2428112	80.0000	55.0795
66 Fluoranthene	202	13.839	13.839	(1.120)	1848314	80.0000	53.7037
67 Benzidine	184	13.992	13.992	(0.891)	22222	80.0000	12.2930(Q)
68 Pyrene	202	14.115	14.115	(0.899)	1886569	80.0000	53.4881
$ 69 Terphenyl-d14	244	14.288	14.288	(0.910)	1407522	80.0000	51.2443
70 Butylbenzylphthalate	149	14.871	14.871	(0.947)	1160821	80.0000	53.8633
71 3,3'-Dichlorobenzidine	252	15.638	15.638	(0.996)	574241	80.0000	59.8857
72 bis(2-Ethylhexyl)phthalate	149	15.648	15.648	(0.997)	1423372	80.0000	49.9201
73 Benzo(a)anthracene	228	15.669	15.669	(0.998)	1681469	80.0000	48.9443
* 74 Chrysene-d12	240	15.699	15.699	(1.000)	1090499	40.0000	
75 Chrysene	228	15.740	15.740	(1.003)	1655530	80.0000	54.8000
76 Di-n-octylphthalate	149	16.701	16.701	(0.911)	2850281	80.0000	47.5837(H)
77 Benzo(b)fluoranthene	252	17.539	17.539	(0.957)	1952682	80.0000	44.5801(M)
78 Benzo(k)fluoranthene	252	17.591	17.591	(0.960)	1590889	80.0000	53.5862
79 Benzo(a)pyrene	252	18.204	18.204	(0.993)	1470180	80.0000	50.8303
* 80 Perylene-d12	264	18.327	18.327	(1.000)	970586	40.0000	
81 Indeno(1,2,3-cd)pyrene	276	21.026	21.026	(1.147)	1689420	80.0000	57.7016
82 Dibenz(a,h)anthracene	278	21.066	21.066	(1.149)	1343387	80.0000	56.9240
83 Benzo(g,h,i)perylene	276	21.741	21.741	(1.186)	1351218	80.0000	56.1217

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU02.D
Date : 30-NOV-2004 12:02
Client ID: CURTIS&TOMPKINS
Sample Info: CCV,04WS1859
Volume Injected (uL): 1.0
Column phase: Mti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04
Seqnum : 534483105011
Calnum : 534481550001
Standards: 04WS1859

Run Name :
Filename : wku11
Caldate : 29-NOV-2004

IDF : 1.0
Injected : 30-NOV-2004 17:16
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
N-Nitrosodimethylamine	0.5171	0.5251	50.00000	50.77710	ng	2	30	0.0500	m
Pyridine	0.8286	0.8502	50.00000	51.30320	ng	3	30	0.0500	
Phenol	1.2970	1.2992	50.00000	50.08360	ng	0	20	0.0500	
Aniline	0.5594	1.0525	50.00000	94.07590	ng	88	30	0.0500	c+ rsd
bis(2-Chloroethyl)ether	0.8432	0.8406	50.00000	49.84680	ng	0	30	0.0500	
2-Chlorophenol	1.2650	1.3095	50.00000	51.75740	ng	4	30	0.0500	
1,3-Dichlorobenzene	1.4140	1.4354	50.00000	50.75530	ng	2	30	0.0500	
1,4-Dichlorobenzene	1.3935	1.4579	50.00000	52.31210	ng	5	20	0.0500	
Benzyl alcohol	0.7621	0.7568	50.00000	49.64700	ng	-1	30	0.0500	
1,2-Dichlorobenzene	1.3170	1.3643	50.00000	51.79700	ng	4	30	0.0500	
2-Methylphenol	0.7884	0.8235	50.00000	52.22510	ng	4	30	0.0500	
bis(2-Chloroisopropyl) ether	1.9347	2.0838	50.00000	53.85220	ng	8	30	0.0500	
4-Methylphenol	1.2756	1.2617	50.00000	49.45480	ng	-1	30	0.0500	
N-Nitroso-di-n-propylamine	0.6147	0.6051	50.00000	49.21520	ng	-2	30	0.0500	
Hexachloroethane	0.5859	0.6205	50.00000	52.95340	ng	6	30	0.0500	
Nitrobenzene	0.2895	0.2971	50.00000	51.32070	ng	3	30	0.0500	
Isophorone	0.6176	0.6363	50.00000	51.51700	ng	3	30	0.0500	
2-Nitrophenol	0.2399	0.2435	50.00000	50.74770	ng	1	20	0.0500	
2,4-Dimethylphenol	0.2460	0.2496	50.00000	50.74720	ng	1	30	0.0500	
bis(2-Chloroethoxy)methane	0.3755	0.3955	50.00000	52.66760	ng	5	30	0.0500	
Benzoic acid	0.1204	0.1830	50.00000	59.42940	ng	19	40	0.0500	
2,4-Dichlorophenol	0.3259	0.3443	50.00000	52.81890	ng	6	20	0.0500	
1,2,4-Trichlorobenzene	0.3901	0.4107	50.00000	52.63160	ng	5	30	0.0500	
Naphthalene	0.9588	1.0249	50.00000	53.44800	ng	7	30	0.0500	
4-Chloroaniline	0.3955	0.4303	50.00000	54.38820	ng	9	30	0.0500	
Hexachlorobutadiene	0.2538	0.2688	50.00000	52.94740	ng	6	20	0.0500	
4-Chloro-3-methylphenol	0.2916	0.2988	50.00000	51.24110	ng	2	20	0.0500	
2-Methylnaphthalene	0.7047	0.7493	50.00000	53.16910	ng	6	30	0.0500	
Hexachlorocyclopentadiene	0.2691	0.2248	50.00000	41.76900	ng	-16	40	0.0500	
2,4,6-Trichlorophenol	0.4174	0.4639	50.00000	55.57380	ng	11	20	0.0500	
2,4,5-Trichlorophenol	0.4131	0.4861	50.00000	58.83320	ng	18	30	0.0500	
2-Chloronaphthalene	0.9597	1.0642	50.00000	55.44480	ng	11	30	0.0500	
2-Nitroaniline	0.2725	0.2852	50.00000	52.32960	ng	5	30	0.0500	
Dimethylphthalate	1.4454	1.5446	50.00000	53.43100	ng	7	30	0.0500	
2,6-Dinitrotoluene	0.3325	0.3715	50.00000	55.87140	ng	12	30	0.0500	
Acenaphthylene	1.5509	1.7450	50.00000	56.25600	ng	13	30	0.0500	
3-Nitroaniline	0.2762	0.3100	50.00000	56.13070	ng	12	30	0.0500	
Acenaphthene	0.9080	1.0050	50.00000	55.34560	ng	11	20	0.0500	
2,4-Dinitrophenol	0.2094	0.1456	50.00000	40.48080	ng	-19	40	0.0500	
4-Nitrophenol	0.1725	0.1677	50.00000	48.63040	ng	-3	40	0.0500	
Dibenzofuran	1.4121	1.5619	50.00000	55.30610	ng	11	30	0.0500	
2,4-Dinitrotoluene	0.4372	0.4603	50.00000	52.63970	ng	5	30	0.0500	
Diethylphthalate	1.4158	1.5707	50.00000	55.47130	ng	11	30	0.0500	
Fluorene	1.1689	1.2896	50.00000	55.16350	ng	10	30	0.0500	
4-Chlorophenyl-phenylether	0.6440	0.7200	50.00000	55.89830	ng	12	40	0.0500	
4-Nitroaniline	0.2328	0.2501	50.00000	47.92760	ng	-4	30	0.0500	

+=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

12/01/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA04 Run Name : IDF : 1.0
Seqnum : 534483105011 Filename : wku11 Injected : 30-NOV-2004 17:16
Calnum : 534481550001 Caldate : 29-NOV-2004 Caltype :
Standards: 04WS1859

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
4,6-Dinitro-2-methylphenol	0.1541	0.1374	50.00000	44.58830	ng	-11	30	0.0500	
N-Nitrosodiphenylamine	0.4385	0.4744	50.00000	54.09290	ng	8	20	0.0500	
Azobenzene	0.6056	0.5951	50.00000	49.13190	ng	-2	30	0.0500	
4-Bromophenyl-phenylether	0.2350	0.2475	50.00000	52.65490	ng	5	30	0.0500	
Hexachlorobenzene	0.2814	0.3006	50.00000	53.41600	ng	7	30	0.0500	
Pentachlorophenol	0.1825	0.1804	50.00000	49.40700	ng	-1	20	0.0500	
Phenanthrene	0.9302	1.0112	50.00000	54.35290	ng	9	30	0.0500	
Anthracene	0.9223	1.0011	50.00000	54.27270	ng	9	30	0.0500	
Carbazole	0.6947	0.6667	50.00000	47.98420	ng	-4	30	0.0500	
Di-n-butylphthalate	1.4234	1.6125	50.00000	56.64360	ng	13	30	0.0500	
Fluoranthene	1.1113	1.1963	50.00000	53.82650	ng	8	20	0.0500	
Benzidine	0.0663	0.0120	50.00000	9.014500	ng	-82	40	0.0500	c- crf
Pyrene	1.2937	1.3853	50.00000	53.54020	ng	7	30	0.0500	
Butylbenzylphthalate	0.7905	0.8577	50.00000	54.25060	ng	9	30	0.0500	
3,3'-Dichlorobenzidine	0.3517	0.4327	50.00000	61.51480	ng	23	40	0.0500	
Benzo(a)anthracene	1.2601	1.2808	50.00000	50.82050	ng	2	30	0.0500	
bis(2-Ethylhexyl)phthalate	1.0459	1.1413	50.00000	54.56030	ng	9	30	0.0500	
Chrysene	1.1081	1.1728	50.00000	52.91710	ng	6	30	0.0500	
Di-n-octylphthalate	2.4686	2.3873	50.00000	48.35280	ng	-3	20	0.0500	
Benzo(b)fluoranthene	1.5347	1.5882	50.00000	44.02080	ng	-12	30	0.0500	
Benzo(k)fluoranthene	1.2235	1.3071	50.00000	53.41680	ng	7	30	0.0500	
Benzo(a)pyrene	1.1920	1.2003	50.00000	50.34690	ng	1	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2066	1.3595	50.00000	56.33380	ng	13	30	0.0500	
Dibenz(a,h)anthracene	0.9726	1.0827	50.00000	55.65800	ng	11	30	0.0500	
Benzo(g,h,i)perylene	0.9922	1.0981	50.00000	55.33370	ng	11	30	0.0500	
2-Fluorophenol	1.0274	1.0670	50.00000	51.92760	ng	4	30	0.0500	
Phenol-d5	1.2147	1.2491	50.00000	51.41330	ng	3	30	0.0500	
Nitrobenzene-d5	0.3163	0.3233	50.00000	51.11030	ng	2	30	0.0500	
2-Fluorobiphenyl	1.1694	1.3249	50.00000	56.64850	ng	13	30	0.0500	
2,4,6-Tribromophenol	0.2764	0.2955	50.00000	53.46230	ng	7	30	0.0500	
Terphenyl-d14	1.0075	1.0348	50.00000	51.35390	ng	3	30	0.0500	

12/01/04

+=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration rsd=ICAL %RSD failure

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU11.D
Report Date: 30-Nov-2004 17:45

Curtis & Tompkins, Ltd.

Semivolatile REPORT SW-846 Method 8270

Data file : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU11.D
Lab Smp Id: Client Smp ID: CURTIS&TOMPKINS
Inj Date : 30-NOV-2004 17:16 MS Autotune Date: 15-AUG-2002 14:17
Operator : BVD Inst ID: MSBNA04.i
Smp Info : CCV,04WS1859
Misc Info : NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\6PTBNA4.m
Meth Date : 30-Nov-2004 18:18 tapsvc Quant Type: ISTD
Cal Date : 29-NOV-2004 16:37 Cal File: WKT13.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 N-Nitrosodimethylamine	74	4.156	4.156	(0.601)	184639	80.0000	50.7770(M)
2 Pyridine	79	4.176	4.176	(0.604)	298960	80.0000	51.3031
$ 3 2-Fluorophenol	112	5.505	5.505	(0.796)	375189	80.0000	51.9275
$ 4 Phenol-d5	99	6.517	6.517	(0.942)	439206	80.0000	51.4132
5 Phenol	94	6.538	6.538	(0.945)	456814	80.0000	50.0835
6 Aniline	66	6.558	6.558	(0.948)	370097	80.0000	94.0758(Q)
7 bis(2-Chloroethyl)ether	63	6.619	6.619	(0.957)	295571	80.0000	49.8468(Q)
8 2-Chlorophenol	128	6.691	6.691	(0.967)	460440	80.0000	51.7573
9 1,3-Dichlorobenzene	146	6.855	6.855	(0.991)	504710	80.0000	50.7552
* 10 1,4-Dichlorobenzene-d4	152	6.916	6.916	(1.000)	281299	40.0000	
11 1,4-Dichlorobenzene	146	6.936	6.936	(1.003)	512641	80.0000	52.3121
12 Benzyl alcohol	108	7.090	7.090	(1.025)	266097	80.0000	49.6469
13 1,2-Dichlorobenzene	146	7.120	7.120	(1.030)	479721	80.0000	51.7970
14 2-Methylphenol	107	7.212	7.212	(1.043)	289549	80.0000	52.2250

Nitrolor

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU11.D
Report Date: 30-Nov-2004 17:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	15 bis(2-Chloroisopropyl) ether	45	7.233	7.233	(1.046)	732711	80.0000	53.8521
	16 4-Methylphenol	107	7.407	7.407	(1.071)	443634	80.0000	49.4547
	17 N-Nitroso-di-n-propylamine	70	7.417	7.417	(1.072)	212764	80.0000	49.2151
	18 Hexachloroethane	117	7.499	7.499	(1.084)	218198	80.0000	52.9534
$	19 Nitrobenzene-d5	82	7.580	7.580	(0.900)	392234	80.0000	51.1102
	20 Nitrobenzene	77	7.601	7.601	(0.903)	360524	80.0000	51.3207
	21 Isophorone	82	7.887	7.887	(0.937)	772091	80.0000	51.5169
	22 2-Nitrophenol	139	7.969	7.969	(0.947)	295489	80.0000	50.7476
	23 2,4-Dimethylphenol	122	8.020	8.020	(0.953)	302882	80.0000	50.7472(Q)
	24 bis(2-Chloroethoxy)methane	93	8.122	8.122	(0.965)	479896	80.0000	52.6676
	25 2,4-Dichlorophenol	162	8.265	8.265	(0.982)	417738	80.0000	52.8188
	26 Benzoic acid	122	8.255	8.255	(0.981)	222068	80.0000	59.4293
	27 1,2,4-Trichlorobenzene	180	8.347	8.347	(0.991)	498286	80.0000	52.6315
*	28 Naphthalene-d8	136	8.419	8.419	(1.000)	970655	40.0000	
	29 Naphthalene	128	8.439	8.439	(1.002)	1243547	80.0000	53.4479
	30 4-Chloroaniline	127	8.511	8.511	(1.011)	522045	80.0000	54.3881
	31 Hexachlorobutadiene	225	8.582	8.582	(1.019)	326091	80.0000	52.9473
	32 4-Chloro-3-methylphenol	107	9.093	9.093	(1.080)	362582	80.0000	51.2410
	33 2-Methylnaphthalene	142	9.267	9.267	(1.101)	909158	80.0000	53.1691
	34 Hexachlorocyclopentadiene	237	9.461	9.461	(0.897)	176962	80.0000	41.7689
	35 2,4,6-Trichlorophenol	196	9.625	9.625	(0.913)	365171	80.0000	55.5738
	36 2,4,5-Trichlorophenol	196	9.676	9.676	(0.918)	382668	80.0000	58.8331
$	37 2-Fluorobiphenyl	172	9.717	9.717	(0.921)	1042936	80.0000	56.6485
	38 2-Chloronaphthalene	162	9.870	9.870	(0.936)	837730	80.0000	55.4448
	39 2-Nitroaniline	65	10.014	10.014	(0.950)	224490	80.0000	52.3295
	40 Dimethylphthalate	163	10.218	10.218	(0.969)	1215860	80.0000	53.4310
	41 2,6-Dinitrotoluene	165	10.310	10.310	(0.978)	292462	80.0000	55.8713
	42 Acenaphthylene	152	10.371	10.371	(0.984)	1373597	80.0000	56.2559
	43 3-Nitroaniline	138	10.525	10.525	(0.998)	244052	80.0000	56.1307
*	44 Acenaphthene-d10	164	10.545	10.545	(1.000)	629730	40.0000	
	45 Acenaphthene	154	10.586	10.586	(1.004)	791119	80.0000	55.3456
	46 2,4-Dinitrophenol	184	10.647	10.647	(1.010)	114628	80.0000	40.4807
	47 4-Nitrophenol	109	10.739	10.739	(1.018)	132033	80.0000	48.6303(Q)
	48 Dibenzofuran	168	10.791	10.791	(1.023)	1229504	80.0000	55.3061
	49 2,4-Dinitrotoluene	165	10.801	10.801	(1.024)	362341	80.0000	52.6396
	50 Diethylphthalate	149	11.077	11.077	(1.050)	1236431	80.0000	55.4712
	51 4-Chlorophenyl-phenylether	204	11.199	11.199	(1.062)	566739	80.0000	55.8983
	52 Fluorene	166	11.210	11.210	(1.063)	1015120	80.0000	55.1634
	53 4-Nitroaniline	138	11.291	11.291	(1.071)	196894	80.0000	47.9275
	54 4,6-Dinitro-2-methylphenol	198	11.312	11.312	(0.916)	195788	80.0000	44.5882(Q)
	55 N-Nitrosodiphenylamine	169	11.363	11.363	(0.920)	675746	80.0000	54.0928
	56 Azobenzene	77	11.394	11.394	(0.922)	847721	80.0000	49.1319
$	57 2,4,6-Tribromophenol	330	11.516	11.516	(1.092)	232628	80.0000	53.4623
	58 4-Bromophenyl-phenylether	248	11.803	11.803	(0.955)	352531	80.0000	52.6549
	59 Hexachlorobenzene	284	11.905	11.905	(0.964)	428209	80.0000	53.4160
	60 Pentachlorophenol	266	12.140	12.140	(0.983)	256913	80.0000	49.4069
*	61 Phenanthrene-d10	188	12.355	12.355	(1.000)	1139563	40.0000	

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU11.D
Report Date: 30-Nov-2004 17:45

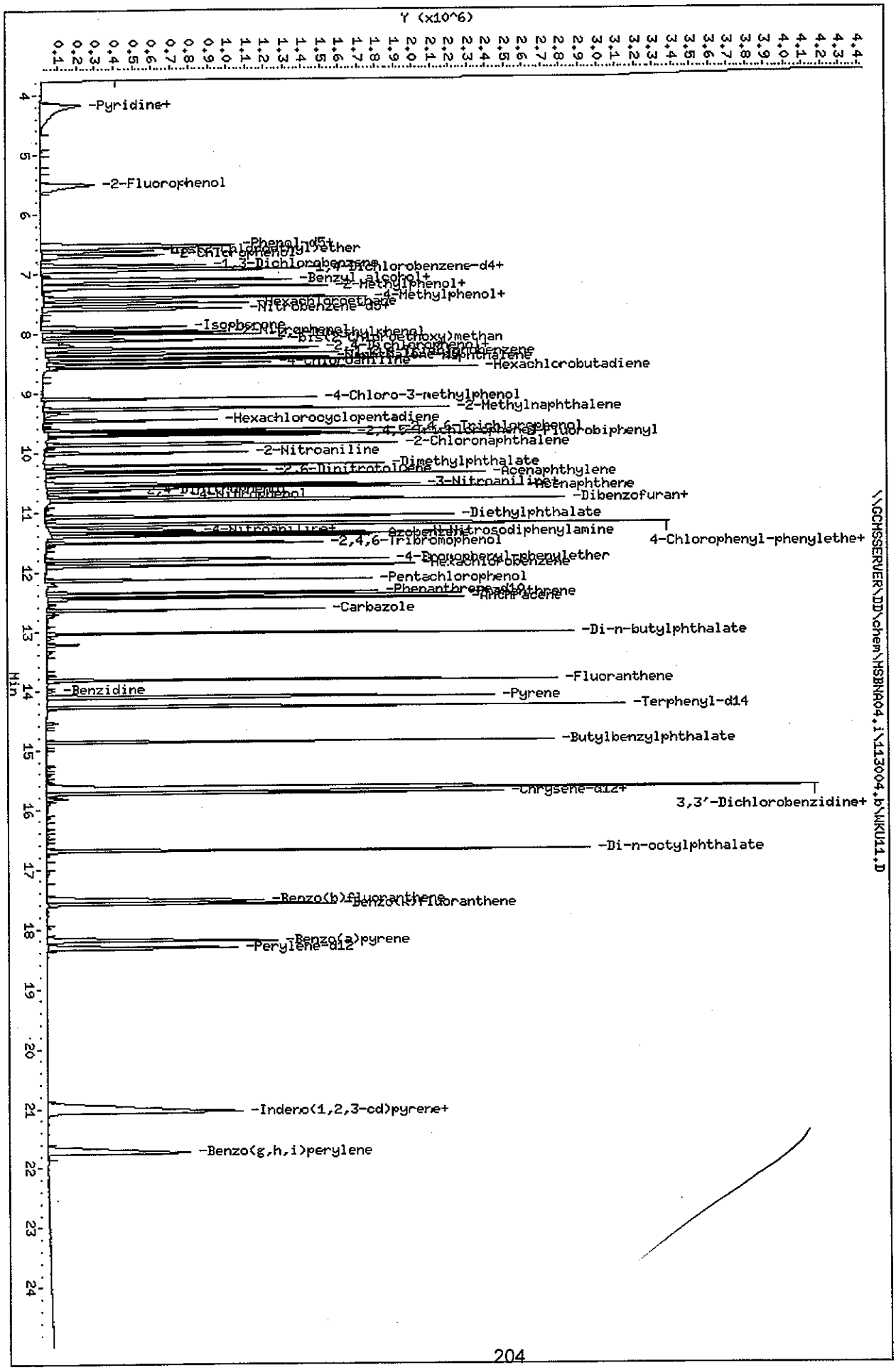
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	62 Phenanthrene	178	12.396	12.396	(1.003)	1440400	80.0000	54.3529
	63 Anthracene	178	12.457	12.457	(1.008)	1426033	80.0000	54.2727
	64 Carbazole	167	12.641	12.641	(1.023)	949643	80.0000	47.9841
	65 Di-n-butylphthalate	149	13.050	13.050	(1.056)	2296936	80.0000	56.6436
	66 Fluoranthene	202	13.837	13.837	(1.120)	1704067	80.0000	53.8265
	67 Benzidine	184	13.990	13.990	(0.891)	14984	80.0000	9.0145(Q)
	68 Pyrene	202	14.123	14.123	(0.900)	1736431	80.0000	53.5401
$	69 Terphenyl-d14	244	14.287	14.287	(0.910)	1297018	80.0000	51.3539
	70 Butylbenzylphthalate	149	14.880	14.880	(0.948)	1075076	80.0000	54.2505
	71 3,3'-Dichlorobenzidine	252	15.636	15.636	(0.996)	542392	80.0000	61.5147
	72 bis(2-Ethylhexyl)phthalate	149	15.657	15.657	(0.997)	1430482	80.0000	54.5603
	73 Benzo(a)anthracene	228	15.667	15.667	(0.998)	1605417	80.0000	50.8204
*	74 Chrysene-d12	240	15.698	15.698	(1.000)	1002740	40.0000	
	75 Chrysene	228	15.739	15.739	(1.003)	1469993	80.0000	52.9170
	76 Di-n-octylphthalate	149	16.700	16.700	(0.911)	2620452	80.0000	48.3528
	77 Benzo(b)fluoranthene	252	17.538	17.538	(0.957)	1743309	80.0000	44.0208
	78 Benzo(k)fluoranthene	252	17.589	17.589	(0.960)	1434793	80.0000	53.4167
	79 Benzo(a)pyrene	252	18.202	18.202	(0.993)	1317483	80.0000	50.3468
*	80 Perylene-d12	264	18.325	18.325	(1.000)	878131	40.0000	
	81 Indeno(1,2,3-cd)pyrene	276	21.024	21.024	(1.147)	1492257	80.0000	56.3338
	82 Dibenz(a,h)anthracene	278	21.065	21.065	(1.150)	1188389	80.0000	55.6580
	83 Benzo(g,h,i)perylene	276	21.740	21.740	(1.186)	1205339	80.0000	55.3337

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSBNA04.i\113004.b\WKU11.D
Date : 30-NOV-2004 17:16
Client ID: CURTIS&TOMPKINS
Sample Info: CCV,04WS1859
Volume Injected (uL): 1.0
Column phase: Rti 5 x .5 u

Instrument: MSBNA04.i
Operator: BVD
Column diameter: 0.25



MOISTURE DATA

Percent Moisture Summary Report

Batch: 96865
Date: 11/24/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176248-001	15.5434	23.9600	23.4925	94	6
176248-002	15.4465	23.5327	23.3143	97	3
176248-003	14.9821	22.6910	22.5478	98	2
176248-004	15.3700	22.9022	22.3052	92	8
176248-005	15.0683	22.2974	21.7303	92	8
176249-016	15.5595	22.1219	20.7060	78	22
176249-017	15.2583	22.1430	20.9833	83	17
176249-019	15.3766	22.4577	20.5212	73	27
176249-020	15.2447	22.4425	21.1445	82	18
176250-010	15.5308	23.1413	21.7977	82	18
176250-011	15.5331	23.8455	21.9568	77	23
176250-012	15.3151	23.8502	21.9372	78	22
QC273791	15.4170	22.1651	21.8127	95	5
of 176248-001			RPD:	0.4%	6.2%

Curtis & Tompkins Laboratories Sample Batch Report

Curtis & Tompkins, Ltd.

Batch Number: 96865
Date Started: 24-NOV-2004
Batched by : Kristen Ann Carlyon

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
176248-001			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-002			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-003			Treadwell & Rollo	Soil	MOISTURE	02-DEC-2004
176248-004			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-005			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176249-016			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-017			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-019			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-020			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-010			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-011			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-012			Innovative Technic	Soil	MOISTURE	30-NOV-2004
QC273791	SDUP	of 176248-001		Soil	MOISTURE	

WET CHEMISTRY DEPARTMENT

DATA PACKAGE REVIEW CHECKLIST

Lab No: 96865 Analysis: MOISTURE

Matrix: Water ___ Soil ✓ Misc. ___ Other

I. Contents & Documentation

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		1. Sample prep information present & complete	☐	
☑	☐		2. Run logs present & complete	☐	
☑	☐		3. Sample raw data present	☐	
☑	☐		4. Standards LIMS ID's documented	☐	☐
☐	☐	☑	5. CAR present & complete (if necessary)	☐	☐
☑	☐		6. Analyst entries complete, legible, initialed		

II. Sample Results

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		7. All requested samples analyzed	☐	☐
☑	☐		8. All samples analyzed within hold	☐	☐
☑	☐		9. Units correct for sample matrix	☐	
☑	☐		10. Data transcribed correctly from raw to forms	☐	
☑	☐		11. All results within calibration range	☐	
☐	☐	☑	12. All dilutions in upper half of curve	☐	
☐	☐	☑	13. All matrix interferences documented	☐	

III. Batch QC & Calibration Checks

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐	☐	14. Method blank clean	☐	☐
☐	☐	☑	15. LCS/BS/BSD recoveries & RPD within QC limits	☐	☐
☑	☐	☐	16. Matrix QC performed on a sample in this batch? If not,	☐	
			☐ Insufficient sample volume available for matrix QC, or		
			☐ Other (describe) ___		
☑	☐	☐	17. Matrix QC recoveries &/or RPD within QC limits	☐	☐
☐	☐	☑	18. ICV recovery within QC limits	☐	
☐	☐	☑	19. CCV recoveries within QC limits	☐	

Comments:

☐ Additional Comments Attached

Analyst: By: D. Manuel Date: 11-24-04

Peer Review By: ___ Date: ___

Group Leader Approved: ___ Date: 11/24/04

PROJECT MOISTURE

Notebook No. 2033
Continued From Page Ø

11/23/04

96865

Sample	Sz.	Digit #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	3	15.4086	—	15.4087	
176248-001	A	4	15.5434	23.9600	23.4925	Taken from B side
176248-001 DUP		46	15.4170	22.1651	21.8127	
-002		101	15.4465	23.5327	23.3143	
-003		16	14.9821	22.6910	22.5478	
-004		30	15.3700	22.9022	22.3052	
-005		134	15.0683	22.2974	21.7303	
176249-016	A	29	15.5595	22.1219	20.7020	COMP 1-3
-017		146	15.2583	22.1430	20.9833	COMP 4-6
~~-018~~		~~39~~	~~15.4996~~	~~23.0892~~	~~21.8671~~	~~Repeat~~ COMP 8,9
-019		40	15.3766	22.4577	20.5272	COMP 10-12
-020		24	15.2447	22.4425	21.7445	COMP 13-15
176250-010	A	18	15.5308	23.1413	21.7977	COMP 1-3
011	A	177	15.5331	23.8455	21.9528	COMP 4-6
012	A	34	15.3151	23.8502	21.9372	COMP 7-9

Oven Temp: 104°C
Time In: 10:30 PM
Time Out: 10:30 A.M.

On: 11-24-04

Continued on Page

Read and Understood By

Kristen Carlyon 11/23/04 Signed Date

Signed Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 /

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RSM				
103°C	11-2-04	RSM				
105°C	11-3-04	RSM				
104°C	11-4-04	RSM				
105°C	11-5-04	RSM				
103°C	11-8-04	RSM				
104	~~11-9-04~~	RSM				
105°C	11-10-04	RSM				
105°C	11-11-04	RSM				
105°C	11-12-04	RSM				
105°C	11-15-04	RSM				
105°C	11-16-04	RSM				
105°C	11-17-04	RSM				
104°C	11-18-04	RSM				
104°C	11-19-04	RSM				
103°C	11-22-04	RSM				
103°C	11-23-04	RSM				
103°C	11-24-04	RSM				

PROJECT METTLER A-E 200 BALANCE

Notebook No. [illegible]

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RSM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RSM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RSM	35298

Continued on Page

Read and Understood By

R. Mann — Signed

11-22-04 — Date

Signed

Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Total Extractable Hydrocarbons

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX153[0.5]	176248-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
TPH-EXTRACTABLES BY GC (EPA 8015B)

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 11/23/04. The sample was received cold and intact.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Chain of Custody

176248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sirindy Rainis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: metals	PCB	Pesticides	VOC	SVOC	mercury	chlor. herb.	TPH d	TPH g				Silica gel clean-up	Hold	Remarks
-1 BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X												~~MS/MSD~~
-2 DUP112304A		1242		X						1		X	X	X												
-3 BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X				X		* 5 day TAT MS/MSD
-4 BB3EX151[0.5]		1254		X						1		X	X	X												
-5 BB3EX152[0.5]		1257		X						1		X	X	X												MS/MSD
-6 TB112304A		1315		X			2								X											

Level IV data package
Sample all tubes from end labeled with a "B"

Sand
Sand
Sand
chart
chart

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/23/04	1455	Tony Fox	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rolo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/22/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3EX153[0.5]	Batch#:	96917
Matrix:	Soil	Sampled:	11/23/04
Units:	mg/Kg	Received:	11/23/04
Diln Fac:	1.000	Prepared:	11/29/04

Type:	SAMPLE	Moisture:	2%
Lab ID:	176248-003	Analyzed:	12/02/04
Basis:	dry	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	10 H Y	1.0
Motor Oil C24-C36	25	5.1

Surrogate	%REC	Limits
Hexacosane	65	65-135

Type:	BLANK	Analyzed:	12/01/04
Lab ID:	QC274011	Cleanup Method:	EPA 3630C
Basis:	as received		

Analyte	Result	RL
Diesel C12-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	99	65-135

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC274012	Batch#:	96917
Matrix:	Soil	Prepared:	11/29/04
Units:	mg/Kg	Analyzed:	12/02/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	50.03	47.55	95	65-135

Surrogate	%REC	Limits
Hexacosane	96	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3EX153[0.5]	Batch#:	96917
MSS Lab ID:	176248-003	Sampled:	11/23/04
Matrix:	Soil	Received:	11/23/04
Units:	mg/Kg	Prepared:	11/29/04
Basis:	dry	Analyzed:	12/02/04
Diln Fac:	1.000		

Type: MS Moisture: 2%
Lab ID: QC274013 Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	10.49	50.81	58.42	94	65-135

Surrogate	%REC	Limits
Hexacosane	116	65-135

Type: MSD Moisture: 2%
Lab ID: QC274014 Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	51.13	48.62	75	65-135	19	35

Surrogate	%REC	Limits
Hexacosane	101	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646001 Name: Diesel Type: (normal) Date: 02-NOV-2004 13:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a005	114442646005	dsl10	02-NOV-2004 13:24	04WS1748
2	307a006	114442646006	dsl100	02-NOV-2004 13:53	04WS1747
3	307a007	114442646007	dsl250	02-NOV-2004 14:22	04WS1746
4	307a008	114442646008	dsl500	02-NOV-2004 14:52	04WS1745
5	307a009	114442646009	dsl1000	02-NOV-2004 15:21	04WS1744
6	307a010	114442646010	dsl2500	02-NOV-2004 15:50	04WS1743
7	307a011	114442646011	dsl5000	02-NOV-2004 16:20	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	15703	21420	21986	21042	22133	23049	22662	AVRG R		4.730E-5		mg/L	21142	12	0.995	20	

10

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC11A Calname : Diesel
Calnum : 114442646001 Caldate : 02-NOV-2004 Caltype :

ICV 114442646028 (307a028) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	114442646028	03-NOV-2004	500.00	504.32	mg/L	1

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG R		5.502E-5		mg/L	18175	7	0.995	20	

12

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114481514002 Name: Hexacosane Type: (normal) Date: 30-NOV-2004 19:21 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	334a057	114481514057	hex5	30-NOV-2004 19:21	04WS2042
2	334a058	114481514058	hex10	30-NOV-2004 19:50	04WS2043
3	334a059	114481514059	hex25	30-NOV-2004 20:20	04WS2044
4	334a060	114481514060	hex50	30-NOV-2004 20:49	04WS2045
5	334a061	114481514061	hex75	30-NOV-2004 21:19	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	27671	26552	26591	27497	28799	AVRG R		3.647E-5		mg/L	27422	3	0.995	20	

13

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MMP
Calnum: 144283164001 Name: Diesel Type: (normal) Date: 14-JUL-2004 15:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b002	144283164002	dsl	14-JUL-2004 15:24	04WS1223
2	196b003	144283164003	dsl	14-JUL-2004 15:52	04WS1222
3	196b004	144283164004	dsl	14-JUL-2004 16:19	04WS1221
4	196b005	144283164005	dsl	14-JUL-2004 16:47	04WS1220
5	196b006	144283164006	dsl	14-JUL-2004 17:15	04WS1219
6	196b007	144283164007	dsl	14-JUL-2004 17:43	04WS1218
7	196b008	144283164008	dsl	14-JUL-2004 18:11	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	14421	17664	18224	19506	19898	20754	20231	AVRG R		5.356E-5		mg/L	18671	12	0.995	20	

14

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC13B Calname : Diesel
Calnum : 144283164001 Caldate : 14-JUL-2004 Caltype :

ICV 144283164027 (196b027) standards: 04WS0983

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	144283164027	15-JUL-2004	500.00	495.14	mg/L	-1

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MMP
Calnum: 144283164003 Name: Hexacosane Type: (normal) Date: 14-JUL-2004 22:20 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b017	144283164017	hex	14-JUL-2004 22:20	04WS0533
2	196b018	144283164018	hex	14-JUL-2004 22:48	04WS0534
3	196b019	144283164019	hex	14-JUL-2004 23:15	04WS0535
4	196b020	144283164020	hex	14-JUL-2004 23:43	04WS0536
5	196b021	144283164021	hex	15-JUL-2004 00:11	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	23341	25682	25454	25462	26153	AVRG R		3.965E-5		mg/L	25218	4	0.995	20	

16

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 174472877001 Name: Diesel Type: (normal) Date: 23-NOV-2004 16:39 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328a007	174472877007	dsl10	23-NOV-2004 16:39	04WS1748
2	328a008	174472877008	dsl100	23-NOV-2004 17:08	04WS1747
3	328a009	174472877009	dsl250	23-NOV-2004 17:36	04WS1746
4	328a010	174472877010	dsl500	23-NOV-2004 18:05	04WS1745
5	328a011	174472877011	dsl1000	23-NOV-2004 18:34	04WS1744
6	328a012	174472877012	dsl2500	23-NOV-2004 19:02	04WS1743
7	328a013	174472877013	dsl5000	23-NOV-2004 19:30	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	18722	22202	22993	22083	22475	22448	21927	AVRG R		4.580E-5		mg/L	21836	6	0.995	20	

17

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC17A Calname : Diesel
Calnum : 174472877001 Caldate : 23-NOV-2004 Caltype :

ICV 174472877015 (328a015) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	174472877015	23-NOV-2004	500.00	480.68	mg/L	-4

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 174472877002 Name: Motor Oil Type: (normal) Date: 23-NOV-2004 21:25 Inj Vol (uL): 3

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	328a017	174472877017	mo50	23-NOV-2004 21:25	04WS2172
2	328a018	174472877018	mo250	23-NOV-2004 21:53	04WS2173
3	328a019	174472877019	mo500	23-NOV-2004 22:22	04WS2174
4	328a020	174472877020	mo1000	23-NOV-2004 22:50	04WS2175
5	328a021	174472877021	mo2500	23-NOV-2004 23:19	04WS2176
6	328a022	174472877022	mo5000	23-NOV-2004 23:47	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	16717	17917	18715	18507	17959	19057	AVRG R		5.511E-5		mg/L	18145	5	0.995	20	

19

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 174472877003 Name: Hexacosane Type: (normal) Date: 24-NOV-2004 00:44 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328a024	174472877024	hex5	24-NOV-2004 00:44	04WS2042
2	328a025	174472877025	hex10	24-NOV-2004 01:13	04WS2043
3	328a026	174472877026	hex25	24-NOV-2004 01:41	04WS2044
4	328a027	174472877027	hex50	24-NOV-2004 02:10	04WS2045
5	328a028	174472877028	hex75	24-NOV-2004 02:38	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	26996	26230	26764	26858	30125	AVRG R		3.650E-5		mg/L	27394	6	0.995	20	

20

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114484417028	02-DEC-2004 00:03	114442646001	02-NOV-2004	21142	23975	250.00	283.50	mg/L	13	15	
GC11A	A	114484417044	02-DEC-2004 07:49	114442646001	02-NOV-2004	21142	24193	500.00	572.15	mg/L	14	15	
GC13B	B	144485974003	02-DEC-2004 12:31	144283164001	14-JUL-2004	18671	18887	500.00	505.79	mg/L	1	15	
GC13B	B	144485974016	02-DEC-2004 19:11	144283164001	14-JUL-2004	18671	21532	1000.0	1153.2	mg/L	15	15	
GC17A	A	174481498090	01-DEC-2004 11:47	174472877001	23-NOV-2004	21836	24383	500.00	558.34	mg/L	12	15	
GC17A	A	174481498105	01-DEC-2004 20:34	174472877001	23-NOV-2004	21836	23806	1000.0	1090.2	mg/L	9	15	

CONTINUING CALIBRATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Cainum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114484417030	02-DEC-2004 01:01	114442646002	02-NOV-2004	18175	18991	500.00	522.45	mg/L	4	15	
GC11A	A	114484417045	02-DEC-2004 08:18	114442646002	02-NOV-2004	18175	18644	500.00	512.91	mg/L	3	15	
GC17A	A	174481498091	01-DEC-2004 13:55	174472877002	23-NOV-2004	18145	20114	500.00	554.26	mg/L	11	15	
GC17A	A	174481498106	01-DEC-2004 21:03	174472877002	23-NOV-2004	18145	19993	500.00	550.92	mg/L	10	15	

CONTINUING CALIBRATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114484417028	02-DEC-2004 00:03	114481514002	30-NOV-2004	27422	30076	50.000	54.838	mg/L	10	15	
GC11A	A	114484417044	02-DEC-2004 07:49	114481514002	30-NOV-2004	27422	30839	50.000	56.230	mg/L	12	15	
GC13B	B	144485974003	02-DEC-2004 12:31	144283164003	14-JUL-2004	25218	25392	50.000	50.344	mg/L	1	15	
GC13B	B	144485974016	02-DEC-2004 19:11	144283164003	14-JUL-2004	25218	29084	50.000	57.664	mg/L	15	15	
GC17A	A	174481498090	01-DEC-2004 11:47	174472877003	24-NOV-2004	27394	30943	50.000	56.477	mg/L	13	15	
GC17A	A	174481498105	01-DEC-2004 20:34	174472877003	24-NOV-2004	27394	31063	50.000	56.696	mg/L	13	15	

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144283164 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 14-JUL-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	196b001	X	ib			14-JUL-2004 14:56	1.0						
002	196b002	ICAL	dsl			14-JUL-2004 15:24	1.0					1	
003	196b003	ICAL	dsl			14-JUL-2004 15:52	1.0					2	
004	196b004	ICAL	dsl			14-JUL-2004 16:19	1.0					3	
005	196b005	ICAL	dsl			14-JUL-2004 16:47	1.0					4	
006	196b006	ICAL	dsl			14-JUL-2004 17:15	1.0					5	
007	196b007	ICAL	dsl			14-JUL-2004 17:43	1.0					6	
008	196b008	ICAL	dsl			14-JUL-2004 18:11	1.0					7	
009	196b009	X	ib			14-JUL-2004 18:39	1.0						
010	196b010	ICAL	mo			14-JUL-2004 19:07	1.0					8	
011	196b011	ICAL	mo			14-JUL-2004 19:34	1.0					9	
012	196b012	ICAL	mo			14-JUL-2004 20:02	1.0					10	
013	196b013	ICAL	mo			14-JUL-2004 20:30	1.0					11	
014	196b014	ICAL	mo			14-JUL-2004 20:57	1.0					12	
015	196b015	ICAL	mo			14-JUL-2004 21:25	1.0					13	
016	196b016	X	ib			14-JUL-2004 21:53	1.0						
017	196b017	ICAL	hex			14-JUL-2004 22:20	1.0					14	
018	196b018	ICAL	hex			14-JUL-2004 22:48	1.0					15	
019	196b019	ICAL	hex			14-JUL-2004 23:15	1.0					16	
020	196b020	ICAL	hex			14-JUL-2004 23:43	1.0					17	
021	196b021	ICAL	hex			15-JUL-2004 00:11	1.0					18	
022	196b022	X	ib			15-JUL-2004 00:38	1.0						
023	196b023	X	c10-16			15-JUL-2004 01:06	1.0						
024	196b024	X	c12-60			15-JUL-2004 01:33	1.0						
025	196b025	X	c50			15-JUL-2004 02:01	1.0						
026	196b026	X	ib			15-JUL-2004 02:28	1.0						
027	196b027	ICV	dsl			15-JUL-2004 02:56	1.0		3			19	
028	196b028	CCV	dsl			15-JUL-2004 03:24	1.0		3			20	
029	196b029	CCV	mo			15-JUL-2004 03:51	1.0		3			21	

Stds used: 1=04WS1223 2=04WS1222 3=04WS1221 4=04WS1220 5=04WS1219 6=04WS1218 7=04WS1217 8=04WS1208 9=04WS1209 10=04WS1210 11=04WS1211 12=04WS1212 13=04WS1012 14=04WS0533 15=04WS0534 16=04WS0535 17=04WS0536 18=04WS0537 19=04WS0983 20=04WS1144 21=04WS1249

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114442646 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 02-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	307a001	X	primer			02-NOV-2004 09:26	1.0						
002	307a002	X	ib			02-NOV-2004 09:55	1.0						
003	307a003	CCV	dsl			02-NOV-2004 10:24	1.0	6	3			1	
004	307a004	CCV	mo			02-NOV-2004 10:54	1.0	4	3			2	
005	307a005	ICAL	dsl10			02-NOV-2004 13:24	1.0					3	
006	307a006	ICAL	dsl100			02-NOV-2004 13:53	1.0					4	
007	307a007	ICAL	dsl250			02-NOV-2004 14:22	1.0					5	
008	307a008	ICAL	dsl500			02-NOV-2004 14:52	1.0					6	
009	307a009	ICAL	dsl1000			02-NOV-2004 15:21	1.0					7	
010	307a010	ICAL	dsl2500			02-NOV-2004 15:50	1.0					8	
011	307a011	ICAL	dsl5000			02-NOV-2004 16:20	1.0					9	
012	307a012	X	ib			02-NOV-2004 16:49	1.0						
013	307a013	ICAL	mo50			02-NOV-2004 17:19	1.0					10	
014	307a014	ICAL	mo250			02-NOV-2004 17:48	1.0					11	
015	307a015	ICAL	mo500			02-NOV-2004 18:17	1.0					12	
016	307a016	ICAL	mo1000			02-NOV-2004 18:46	1.0					13	
017	307a017	ICAL	mo2500			02-NOV-2004 19:16	1.0					14	
018	307a018	ICAL	mo5000			02-NOV-2004 19:45	1.0					15	
019	307a019	X	ib			02-NOV-2004 20:14	1.0						
020	307a020	ICAL	hex5			02-NOV-2004 20:43	1.0					16	
021	307a021	ICAL	hex10			02-NOV-2004 21:13	1.0					17	
022	307a022	ICAL	hex25			02-NOV-2004 21:42	1.0					18	
023	307a023	ICAL	hex50			02-NOV-2004 22:11	1.0					19	
024	307a024	ICAL	hex75			02-NOV-2004 22:40	1.0					20	
025	307a025	X	ib			02-NOV-2004 23:09	1.0						
026	307a026	CCV	dsl			02-NOV-2004 23:39	1.0		3			1	
027	307a027	CCV	mo			03-NOV-2004 00:08	1.0		3			2	
028	307a028	ICV	dsl500			03-NOV-2004 00:38	1.0		3			21	

Stds used: 1=04WS1975 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS1208 11=04WS1209 12=04WS1210 13=04WS1211 14=04WS1212 15=04WS1012 16=04WS2042 17=04WS2043 18=04WS2044 19=04WS2045 20=04WS2046 21=04WS2006

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174472877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 23-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	328a001	X	primer			23-NOV-2004 09:17	1.0					
002	328a002	X	ib			23-NOV-2004 09:46	1.0					
003	328a003	CCV	dsl			23-NOV-2004 13:09	1.0				1	
004	328a004	CCV	mo			23-NOV-2004 13:38	1.0	1.0		3	2	
005	328a005	X	primer			23-NOV-2004 15:42	1.0					
006	328a006	X	ib			23-NOV-2004 16:11	1.0					
007	328a007	ICAL	dsl10			23-NOV-2004 16:39	1.0	1.0			3	
008	328a008	ICAL	dsl100			23-NOV-2004 17:08	1.0	1.0			4	
009	328a009	ICAL	dsl250			23-NOV-2004 17:36	1.0	1.0			5	
010	328a010	ICAL	dsl500			23-NOV-2004 18:05	1.0	1.0			6	
011	328a011	ICAL	dsl1000			23-NOV-2004 18:34	1.0	1.0			7	
012	328a012	ICAL	dsl2500			23-NOV-2004 19:02	1.0	1.0			8	
013	328a013	ICAL	dsl5000			23-NOV-2004 19:30	1.0	1.0			9	
014	328a014	X	ib			23-NOV-2004 19:59	1.0					
015	328a015	ICV	dsl500			23-NOV-2004 20:28	1.0	1.0		3	10	
016	328a016	X	ib			23-NOV-2004 20:56	1.0					
017	328a017	ICAL	mo50			23-NOV-2004 21:25	1.0	1.0			11	
018	328a018	ICAL	mo250			23-NOV-2004 21:53	1.0	1.0			12	
019	328a019	ICAL	mo500			23-NOV-2004 22:22	1.0	1.0			13	
020	328a020	ICAL	mo1000			23-NOV-2004 22:50	1.0	1.0			14	
021	328a021	ICAL	mo2500			23-NOV-2004 23:19	1.0	1.0			15	
022	328a022	ICAL	mo5000			23-NOV-2004 23:47	1.0	1.0			16	
023	328a023	X	ib			24-NOV-2004 00:16	1.0					
024	328a024	ICAL	hex5			24-NOV-2004 00:44	1.0	1.0			17	
025	328a025	ICAL	hex10			24-NOV-2004 01:13	1.0	1.0			18	
026	328a026	ICAL	hex25			24-NOV-2004 01:41	1.0	1.0			19	
027	328a027	ICAL	hex50			24-NOV-2004 02:10	1.0	1.0			20	
028	328a028	ICAL	hex75			24-NOV-2004 02:38	1.0	1.0			21	
029	328a029	X	ib			24-NOV-2004 03:06	1.0					
030	328a030	CCV	dsl			24-NOV-2004 03:35	1.0	1.0		3	22	

Stds used: 1=04WS2215 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS2006 11=04WS2172 12=04WS2173 13=04WS2174 14=04WS2175 15=04WS2176 16=04WS2169 17=04WS2042 18=04WS2043 19=04WS2044 20=04WS2045 21=04WS2046 22=04WS1975 23=04WS2195 24=04WS1853 25=04WS1972 26=04WS1817 27=04WS1974

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174472877 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 23-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
031	328a031	CCV	mo			24-NOV-2004 04:03	1.0	1.0			3	23	
032	328a032	X	ib			24-NOV-2004 04:32	1.0						
033	328a033	X	c10-16			24-NOV-2004 05:00	1.0						
034	328a034	X	c12-60			24-NOV-2004 05:29	1.0						
035	328a035	X	c-50			24-NOV-2004 05:57	1.0						
036	328a036	LCS	QC273710 S	96845	Soil	24-NOV-2004 12:21	1.0	0.1002			3		
037	328a037	XLANK	QC273709 S	96845	Soil	24-NOV-2004 12:49	1.0	0.1002			3		
038	328a038	SAMPLE	176195-002 S	96845	Soil	24-NOV-2004 13:18	1.0	0.1000		1	3		
039	328a039	SAMPLE	176195-001 S	96845	Soil	24-NOV-2004 13:46	1.0	0.1000			3		
040	328a040	SAMPLE	176195-002 S	96845	Soil	24-NOV-2004 15:01	1.0	0.1000			3		
041	328a041	SAMPLE	176154-001	96845	Miscel	24-NOV-2004 15:40	1.0	0.1000	3		3		11:BUNKC:=24166.8
042	328a042	MS	QC273713	96845	Soil	24-NOV-2004 16:08	1.0	0.1004	1	1	3		1:HXCS=159.534
043	328a043	MSD	QC273714	96845	Soil	24-NOV-2004 16:37	1.0	0.1002	1	1	3		3:BUNKC:=5774.67
044	328a044	CCV	dsl			24-NOV-2004 17:05	1.0	1.0			3	24	
045	328a045	CCV	mo			24-NOV-2004 17:34	1.0	1.0			3	25	
046	328a046	CCV	jet			24-NOV-2004 18:02	1.0	1.0			3	26	
047	328a047	BLANK	QC273632	96825	Water	24-NOV-2004 18:31	1.0	0.005	7		3		
048	328a048	SAMPLE	176088-002	96825	Water	24-NOV-2004 19:00	1.0	0.005			3		
049	328a049	SAMPLE	176088-003	96825	Water	24-NOV-2004 19:28	1.0	0.005			3		2:BUNKC:=6356.59
050	328a050	SAMPLE	176088-004	96825	Water	24-NOV-2004 19:57	1.0	0.005			3		
051	328a051	SAMPLE	176088-005	96825	Water	24-NOV-2004 20:26	1.0	0.005			3		
052	328a052	SAMPLE	176088-006	96825	Water	24-NOV-2004 20:54	1.0	0.005			3		
053	328a053	SAMPLE	176088-007	96825	Water	24-NOV-2004 21:23	1.0	0.005	1		3		1:HXCS=76.9586
054	328a054	SAMPLE	176088-008	96825	Water	24-NOV-2004 21:52	1.0	0.005			3		
055	328a055	SAMPLE	176088-001	96825	Water	24-NOV-2004 22:21	1.0	0.005			3		
056	328a056	CCV	dsl			24-NOV-2004 22:49	1.0	1.0			3	27	
057	328a057	CCV	mo			24-NOV-2004 23:18	1.0	1.0			3	23	
058	328a058	X	ccv			24-NOV-2004 23:47	1.0					27	
059	328a059	CCV	jet			25-NOV-2004 00:16	1.0	1.0			3	26	

Stds used: 1=04WS2215 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS2006 11=04WS2172 12=04WS2173 13=04WS2174 14=04WS2175 15=04WS2176 16=04WS2169 17=04WS2042 18=04WS2043 19=04WS2044 20=04WS2045 21=04WS2046 22=04WS1975 23=04WS2195 24=04WS1853 25=04WS1972 26=04WS1817 27=04WS1974

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114481514 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	334a001	X	primer			29-NOV-2004 09:14	1.0					
002	334a002	X	ib			29-NOV-2004 09:43	1.0					
003	334a003	X	dsl			29-NOV-2004 10:12	1.0	1.0		3	1	
004	334a004	X	mo			29-NOV-2004 10:41	1.0	1.0		3	2	
005	334a005	X	dsl			29-NOV-2004 11:18	1.0				3	
006	334a006	X	primer			29-NOV-2004 13:10	1.0					
007	334a007	X	ib			29-NOV-2004 13:40	1.0					
008	334a008	X	tank check			29-NOV-2004 14:09	1.0					
009	334a009	X	c10-16			29-NOV-2004 15:00	1.0					
010	334a010	X	c12-60			29-NOV-2004 15:29	1.0					
011	334a011	X	c50			29-NOV-2004 15:59	1.0					
012	334a012	X	ib			29-NOV-2004 16:28	1.0					
013	334a013	X	dsl			29-NOV-2004 16:57	1.0				1	
014	334a014	CCV	mo			29-NOV-2004 17:27	1.0	1.0		3	4	
015	334a015	CCV	dsl			29-NOV-2004 17:56	1.0	1.0		3	3	
016	334a016	CCV	jp5			29-NOV-2004 19:48	1.0	1.0		3	5	
017	334a017	CCV	jp8			29-NOV-2004 20:17	1.0	1.0		3	6	
018	334a018	BLANK	QC273982 S	96910	Water	29-NOV-2004 20:47	1.0	0.005	5	3		
019	334a019	BS	QC273983 S	96910	Water	29-NOV-2004 21:17	1.0	0.005		3		
020	334a020	BSD	QC273984 S	96910	Water	29-NOV-2004 21:46	1.0	0.005		3		
021	334a021	SAMPLE	176049-003 S	96910	Water	29-NOV-2004 22:15	1.0	0.005		3		
022	334a022	SAMPLE	176051-016	96910	Water	29-NOV-2004 22:45	1.0	0.005		3		
023	334a023	SAMPLE	176051-018	96910	Water	29-NOV-2004 23:14	1.0	0.005		3		
024	334a024	SAMPLE	176051-012	96910	Water	29-NOV-2004 23:43	1.0	0.005		3		
025	334a025	SAMPLE	176051-014	96910	Water	30-NOV-2004 00:12	1.0	0.005		3		
026	334a026	SAMPLE	176051-008	96910	Water	30-NOV-2004 00:41	1.0	0.005	1	3		4:BUNKC:=13439.9
027	334a027	SAMPLE	176051-010	96910	Water	30-NOV-2004 01:11	1.0	0.005		3		
028	334a028	CCV	dsl			30-NOV-2004 01:40	1.0	1.0		3	7	
029	334a029	CCV	mo			30-NOV-2004 02:09	1.0	1.0		3	2	
030	334a030	X	ccv			30-NOV-2004 02:38	1.0				7	
031	334a031	CCV	jp5			30-NOV-2004 03:07	1.0	1.0		3	5	

Stds used: 1=04WS1975 2=04WS2195 3=04WS2215 4=04WS2074 5=04WS1718 6=04WS1719 7=04WS2207 8=04WS1974 9=04WS2042 10=04WS2043 11=04WS2044 12=04WS2045 13=04WS2046

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114481514 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	334a032	CCV	jp8			30-NOV-2004 03:35	1.0	1.0			3	6	
033	334a033	SAMPLE	176152-008	96910	Water	30-NOV-2004 04:04	1.0	0.005			3		
034	334a034	SAMPLE	176051-005	96910	Water	30-NOV-2004 04:33	1.0	0.005			3		1:BUNKC:=5125.11
035	334a035	SAMPLE	176051-003	96910	Water	30-NOV-2004 05:02	1.0	0.005			3		1:BUNKC:=8160.92
036	334a036	SAMPLE	176152-005	96910	Water	30-NOV-2004 05:31	1.0	0.005			3		1:BUNKC:=5536.45
037	334a037	SAMPLE	176152-006	96910	Water	30-NOV-2004 06:00	1.0	0.005			3		1:BUNKC:=6549.24
038	334a038	SAMPLE	176116-003	96910	Water	30-NOV-2004 06:29	1.0	0.005			3		1:BUNKC:=5158.62
039	334a039	SAMPLE	176116-004	96910	Water	30-NOV-2004 06:57	1.0	0.005			3		
040	334a040	SAMPLE	176152-001	96910	Water	30-NOV-2004 07:26	1.0	0.005		1	3		1:BUNKC:=7628.16
041	334a041	SAMPLE	176152-004	96910	Water	30-NOV-2004 07:55	1.0	0.005			3		
042	334a042	SAMPLE	176245-001	96910	Water	30-NOV-2004 08:24	1.0	0.005			3		
043	334a043	CCV	dsl			30-NOV-2004 08:53	1.0	1.0			3	8	
044	334a044	CCV	mo			30-NOV-2004 09:22	1.0	1.0			3	2	
045	334a045	X	ccv			30-NOV-2004 09:52	1.0					8	
046	334a046	CCV	jp5			30-NOV-2004 10:21	1.0	1.0			3	5	
047	334a047	CCV	jp8			30-NOV-2004 10:51	1.0	1.0			3	6	
048	334a048	SAMPLE	176051-020	96910	Water	30-NOV-2004 11:20	1.0	0.005			3		
049	334a049	SAMPLE	176116-007	96910	Water	30-NOV-2004 11:50	1.0	0.005			3		1:BUNKC:=13003.5
050	334a050	SAMPLE	176245-002	96910	Water	30-NOV-2004 12:19	1.0	0.005			3		1:BUNKC:=8795.16
051	334a051	SAMPLE	176051-008	96910	Water	30-NOV-2004 12:49	5.0	0.005			3		
052	334a052	CCV	dsl			30-NOV-2004 13:18	1.0	1.0			3	3	
053	334a053	CCV	mo			30-NOV-2004 13:47	1.0	1.0			3	2	
054	334a054	CCV	jp5			30-NOV-2004 14:17	1.0	1.0			3	5	
055	334a055	CCV	jp8			30-NOV-2004 14:46	1.0	1.0			3	6	
056	334a056	X	ib			30-NOV-2004 18:51	1.0						
057	334a057	ICAL	hex5			30-NOV-2004 19:21	1.0	1.0				9	
058	334a058	ICAL	hex10			30-NOV-2004 19:50	1.0	1.0				10	
059	334a059	ICAL	hex25			30-NOV-2004 20:20	1.0	1.0				11	
060	334a060	ICAL	hex50			30-NOV-2004 20:49	1.0	1.0				12	
061	334a061	ICAL	hex75			30-NOV-2004 21:19	1.0	1.0				13	
062	334a062	X	ib			30-NOV-2004 21:49	1.0						

Stds used: 1=04WS1975 2=04WS2195 3=04WS2215 4=04WS2074 5=04WS1718 6=04WS1719 7=04WS2207 8=04WS1974 9=04WS2042 10=04WS2043 11=04WS2044 12=04WS2045 13=04WS2046

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	334a001	X	primer			29-NOV-2004 08:58	1.0					
002	334a002	X	ib			29-NOV-2004 09:27	1.0					
003	334a003	CCV	dsl			29-NOV-2004 09:56	1.0	1.0		3	1	
004	334a004	CCV	mo			29-NOV-2004 10:24	1.0	1.0		3	2	
005	334a005	CCV	ker			29-NOV-2004 11:39	1.0	1.0		3	3	
006	334a006	SAMPLE	176154-001	96845	Miscel	29-NOV-2004 13:17	10.0	0.1000		3		
007	334a007	SAMPLE	176088-007	96825	Water	29-NOV-2004 13:45	1.0	0.005	1	3		
008	334a008	SAMPLE	176153-002	96845	Soil	29-NOV-2004 14:14	2.0	0.09956		3		3:BUNKC:=11340.6
009	334a009	SAMPLE	176153-005	96845	Soil	29-NOV-2004 14:42	2.0	0.09934		3		1:BUNKC:=5368.00
010	334a010	SAMPLE	176153-006	96845	Soil	29-NOV-2004 15:10	2.0	0.09964		3		
011	334a011	BLANK	QC273881	96883	Soil	29-NOV-2004 18:23	1.0	0.1004	8	3		
012	334a012	SAMPLE	176153-003	96883	Soil	29-NOV-2004 18:51	1.0	0.09905		3		
013	334a013	SAMPLE	176153-010	96883	Soil	29-NOV-2004 19:20	1.0	0.09909		3		
014	334a014	SAMPLE	176153-011	96883	Soil	29-NOV-2004 19:49	1.0	0.09974		3		
015	334a015	SAMPLE	176153-025	96883	Soil	29-NOV-2004 20:17	1.0	0.1005		3		
016	334a016	CCV	dsl			29-NOV-2004 20:46	1.0	1.0		3	4	
017	334a017	CCV	mo			29-NOV-2004 21:15	1.0	1.0		3	5	
018	334a018	X	ccv			29-NOV-2004 21:43	1.0				4	
019	334a019	CCV	ker			29-NOV-2004 22:12	1.0	1.0		3	3	
020	334a020	SAMPLE	176153-013	96883	Soil	29-NOV-2004 22:41	1.0	0.09964		3		
021	334a021	SAMPLE	176153-026	96883	Soil	29-NOV-2004 23:09	1.0	0.1002		3		
022	334a022	SAMPLE	176153-034	96883	Soil	29-NOV-2004 23:37	1.0	0.0999		3		
023	334a023	SAMPLE	176153-031	96883	Soil	30-NOV-2004 00:06	1.0	0.0994		3		
024	334a024	SAMPLE	176153-012	96883	Soil	30-NOV-2004 00:34	1.0	0.09978		3		
025	334a025	SAMPLE	176153-020	96883	Soil	30-NOV-2004 01:03	1.0	0.1004		3		
026	334a026	SAMPLE	176153-021	96883	Soil	30-NOV-2004 01:31	1.0	0.09986		3		
027	334a027	LCS	QC273882	96883	Soil	30-NOV-2004 01:59	1.0	0.0994		3		
028	334a028	SAMPLE	176153-036	96883	Soil	30-NOV-2004 02:27	1.0	0.09954		3		
029	334a029	MSS	176153-029	96883	Soil	30-NOV-2004 02:56	1.0	0.1001	8	3		
030	334a030	CCV	dsl			30-NOV-2004 03:24	1.0	1.0		3	6	
031	334a031	CCV	mo			30-NOV-2004 03:52	1.0	1.0		3	5	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	334a032	X	ccv			30-NOV-2004 04:21	1.0					6	
033	334a033	CCV	ker			30-NOV-2004 04:49	1.0	1.0			3	3	
034	334a034	MS	QC273883	96883	Soil	30-NOV-2004 05:17	1.0	0.1003			3		
035	334a035	MSD	QC273884	96883	Soil	30-NOV-2004 05:45	1.0	0.09962			3		
036	334a036	SAMPLE	176153-022	96883	Soil	30-NOV-2004 06:13	1.0	0.09925			3		
037	334a037	SAMPLE	176153-023	96883	Soil	30-NOV-2004 06:41	1.0	0.09909			3		
038	334a038	SAMPLE	176142-001	96883	Soil	30-NOV-2004 07:10	1.0	0.0996			3		
039	334a039	SAMPLE	176153-028	96883	Soil	30-NOV-2004 07:38	1.0	0.09994			3		
040	334a040	SAMPLE	176153-033	96883	Soil	30-NOV-2004 08:56	1.0	0.09974			3		
041	334a041	SAMPLE	176153-027	96883	Soil	30-NOV-2004 09:25	1.0	0.09948			3		
042	334a042	SAMPLE	176153-032	96883	Soil	30-NOV-2004 12:27	1.0	0.09921	1		3		2:BUNKC:=5130.95
043	334a043	SAMPLE	176153-032	96883	Soil	30-NOV-2004 13:12	1.0	0.09921	1		3		2:BUNKC:=5046.82
044	334a044	CCV	mo			30-NOV-2004 13:40	1.0	1.0			3	5	
045	334a045	CCV	dsl			30-NOV-2004 14:09	1.0	1.0			3	7	
046	334a046	CCV	ker			30-NOV-2004 14:37	1.0	1.0			3	3	
047	334a047	CCV	jet			30-NOV-2004 15:06	1.0	1.0			3	8	
048	334a048	BLANK	QC274232 S	96967	Soil	30-NOV-2004 15:34	1.0	0.1003	7		3		
049	334a049	SAMPLE	176241-001 S	96967	Soil	30-NOV-2004 16:03	1.0	0.1001			3		
050	334a050	LCS	QC273891	96885	Water	30-NOV-2004 16:48	1.0	0.005			3		
051	334a051	LCS	QC273887	96884	Water	30-NOV-2004 17:16	1.0	0.005			3		
052	334a052	MSD	QC273893	96885	Water	30-NOV-2004 17:45	1.0	0.005			3		
053	334a053	MS	QC273892	96885	Water	30-NOV-2004 18:14	1.0	0.005			3		
054	334a054	MSD	QC273889	96884	Water	30-NOV-2004 18:42	1.0	0.005			3		
055	334a055	MS	QC273888	96884	Water	30-NOV-2004 19:11	1.0	0.005			3		
056	334a056	SAMPLE	176245-002	96910	Water	30-NOV-2004 19:40	25.0	0.005			3		
057	334a057	CCV	dsl			30-NOV-2004 20:08	1.0	1.0			3	4	
058	334a058	CCV	mo			30-NOV-2004 20:37	1.0	1.0			3	5	
059	334a059	X	ccv			30-NOV-2004 21:06	1.0					4	
060	334a060	CCV	jet			30-NOV-2004 21:35	1.0	1.0			3	9	
061	334a061	CCV	ker			30-NOV-2004 22:04	1.0	1.0			3	3	
062	334a062	CCV	jp5			30-NOV-2004 22:32	1.0	1.0			3	10	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	334a063	CCV	jp8			30-NOV-2004 23:01	1.0	1.0			3	11	
064	334a064	XLANK	QC274011 S	96917	Soil	30-NOV-2004 23:29	1.0	0.09929					
065	334a065	LCS	QC274012 S	96917	Soil	30-NOV-2004 23:58	1.0	0.1001			3		
066	334a066	MS	QC274013 S	96917	Soil	01-DEC-2004 00:26	1.0	0.09958		1	3		
067	334a067	MSD	QC274014 S	96917	Soil	01-DEC-2004 00:55	1.0	0.1002		1	3		
068	334a068	X	176248-003 S	96917	Soil	01-DEC-2004 01:23	1.0	0.09954			3		
069	334a069	SAMPLE	176153-030	96917	Soil	01-DEC-2004 01:51	1.0	0.0996			3		
070	334a070	SAMPLE	176153-037	96917	Soil	01-DEC-2004 02:20	1.0	0.1000			3		
071	334a071	SAMPLE	176051-002	96917	Soil	01-DEC-2004 02:48	1.0	0.1002			3		
072	334a072	MS	QC273980	96909	Water	01-DEC-2004 03:16	1.0	0.005		1	3		
073	334a073	MSD	QC273981	96909	Water	01-DEC-2004 03:45	1.0	0.005		1	3		
074	334a074	CCV	dsl			01-DEC-2004 04:13	1.0	1.0			3	6	
075	334a075	CCV	mo			01-DEC-2004 04:41	1.0	1.0			3	5	
076	334a076	X	ccv			01-DEC-2004 05:09	1.0					6	
077	334a077	CCV	ker			01-DEC-2004 05:38	1.0	1.0			3	3	
078	334a078	CCV	jp5			01-DEC-2004 06:06	1.0	1.0			3	10	
079	334a079	CCV	jp8			01-DEC-2004 06:34	1.0	1.0			3	11	
080	334a080	SAMPLE	176051-007	96917	Soil	01-DEC-2004 07:02	1.0	0.1002			3		
081	334a081	SAMPLE	176168-002	96967	Soil	01-DEC-2004 07:30	1.0	0.09948			3		
082	334a082	SAMPLE	176142-003	96917	Soil	01-DEC-2004 07:59	1.0	0.09946			3		
083	334a083	SAMPLE	176142-002	96917	Soil	01-DEC-2004 08:27	1.0	0.09974			3		
084	334a084	SAMPLE	176168-004	96967	Soil	01-DEC-2004 08:55	1.0	0.0995			3		
085	334a085	SAMPLE	176168-001	96967	Soil	01-DEC-2004 09:24	1.0	0.09913			3		
086	334a086	SAMPLE	176051-001	96917	Soil	01-DEC-2004 09:52	1.0	0.09909	1		3		9:BUNKC:=26164.9
087	334a087	SAMPLE	176051-009	96917	Soil	01-DEC-2004 10:21	1.0	0.1002			3		
088	334a088	SAMPLE	176051-004	96917	Soil	01-DEC-2004 10:49	1.0	0.1003			3		
090	334a090	CCV	dsl			01-DEC-2004 11:47	1.0	1.0			3	7	
091	334a091	CCV	mo			01-DEC-2004 13:55	1.0	1.0			3	5	
092	334a092	CCV	ker			01-DEC-2004 14:24	1.0	1.0			3	3	
093	334a093	CCV	jp5			01-DEC-2004 14:52	1.0	1.0			3	10	
094	334a094	CCV	jp8			01-DEC-2004 15:21	1.0	1.0			3	11	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
095	334a095	BLANK	QC273978 S	96909	Water	01-DEC-2004 15:49	1.0	0.005	5		3		
096	334a096	BLANK	QC274011 S	96917	Soil	01-DEC-2004 16:18	1.0	0.09929	5		3		
097	334a097	SAMPLE	176168-006	96967	Soil	01-DEC-2004 16:46	1.0	0.1001			3		
098	334a098	MSS	176216-005	96967	Soil	01-DEC-2004 17:14	20.0	0.0996	7		3		
099	334a099	SAMPLE	176153-014	96909	Water	01-DEC-2004 17:43	5.0	0.005			3		1:BUNKC:=5185.54
100	334a100	SAMPLE	176051-017	96917	Soil	01-DEC-2004 18:12	5.0	0.0999			3		
101	334a101	SAMPLE	176051-013	96917	Soil	01-DEC-2004 18:40	1.0	0.1004			3		
102	334a102	SAMPLE	176051-011	96917	Soil	01-DEC-2004 19:09	1.0	0.09911			3		
103	334a103	SAMPLE	176153-016	96909	Water	01-DEC-2004 19:37	3.0	0.005	1		3		3:BUNKC:=6301.89
104	334a104	SAMPLE	176051-019	96917	Soil	01-DEC-2004 20:06	10.0	0.1000			3		
105	334a105	CCV	dsl			01-DEC-2004 20:34	1.0	1.0			3	4	
106	334a106	CCV	mo			01-DEC-2004 21:03	1.0	1.0	1		3	5	
107	334a107	X	ccv			01-DEC-2004 21:32	1.0					4	
108	334a108	CCV	ker			01-DEC-2004 22:00	1.0	1.0			3	3	
109	334a109	CCV	jp5			01-DEC-2004 22:29	1.0	1.0			3	10	
110	334a110	CCV	jp8			01-DEC-2004 22:57	1.0	1.0			3	11	
111	334a111	SAMPLE	176142-005	96917	Soil	01-DEC-2004 23:26	1.0	0.09984			3		
112	334a112	SAMPLE	176142-004	96917	Soil	01-DEC-2004 23:54	1.0	0.09972			3		
113	334a113	SAMPLE	176168-007	96967	Soil	02-DEC-2004 00:23	10.0	0.1003			3		
114	334a114	SAMPLE	176051-015	96917	Soil	02-DEC-2004 00:51	1.0	0.09962			3		
115	334a115	X	ib			02-DEC-2004 01:20	1.0						
116	334a116	SAMPLE	176168-009	96967	Soil	02-DEC-2004 01:48	1.0	0.1001			3		
117	334a117	SAMPLE	176168-010	96967	Soil	02-DEC-2004 02:17	1.0	0.0995			3		
118	334a118	X	ib			02-DEC-2004 02:45	1.0						
119	334a119	CCV	dsl			02-DEC-2004 03:13	1.0	1.0			3	6	
120	334a120	CCV	mo			02-DEC-2004 03:41	1.0	1.0			3	5	
121	334a121	X	ccv			02-DEC-2004 04:10	1.0					6	
122	334a122	CCV	jp5			02-DEC-2004 04:38	1.0	1.0			3	10	
123	334a123	CCV	jp8			02-DEC-2004 05:06	1.0	1.0			3	11	
124	334a124	CCV	ker			02-DEC-2004 05:35	1.0	1.0			3	3	
125	334a125	SAMPLE	176242-009	96989	Water	02-DEC-2004 06:03	1.0	0.005			3		

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
126	334a126	SAMPLE	176217-001	96989	Water	02-DEC-2004 06:31	1.0	0.005			3		
127	334a127	SAMPLE	176244-003	96989	Water	02-DEC-2004 07:00	1.0	0.005			3		
128	334a128	SAMPLE	176142-006	96989	Water	02-DEC-2004 07:28	1.0	0.005			3		
129	334a129	SAMPLE	176244-002	96989	Water	02-DEC-2004 07:56	1.0	0.005			3		
130	334a130	SAMPLE	176144-003 S	96989	Water	02-DEC-2004 08:24	1.0	0.005			3		
131	334a131	SAMPLE	176144-004 S	96989	Water	02-DEC-2004 08:53	1.0	0.005			3		
132	334a132	SAMPLE	176144-005 S	96989	Water	02-DEC-2004 09:21	1.0	0.005			3		
133	334a133	SAMPLE	176244-001 S	96989	Water	02-DEC-2004 09:50	1.0	0.005			3		
134	334a134	CCV	dsl			02-DEC-2004 10:19	1.0	1.0			3	7	
135	334a135	CCV	mo			02-DEC-2004 10:47	1.0	1.0			3	5	
136	334a136	X	ccv			02-DEC-2004 11:16	1.0					7	
137	334a137	CCV	ker			02-DEC-2004 11:44	1.0	1.0			3	3	
138	334a138	SAMPLE	176256-001 S	96989	Water	02-DEC-2004 12:13	1.0	0.005			3		
139	334a139	BLANK	QC274457 S	97026	Soil	02-DEC-2004 12:41	1.0	0.09929	6		3		
140	334a140	SAMPLE	176210-007 S	97026	Soil	02-DEC-2004 13:38	1.0	0.09988			3		
141	334a141	SAMPLE	176215-003	96989	Water	02-DEC-2004 14:07	1.0	0.005			3		
142	334a142	SAMPLE	176215-005	96989	Water	02-DEC-2004 14:35	1.0	0.005			3		
143	334a143	SAMPLE	176215-001	96989	Water	02-DEC-2004 15:04	1.0	0.005			3		2:BUNKC:=6608.70
144	334a144	SAMPLE	176215-002	96989	Water	02-DEC-2004 15:33	1.0	0.005			3		
145	334a145	SAMPLE	176232-001	96989	Water	02-DEC-2004 16:01	1.0	0.005			3		4:BUNKC:=14380.8
146	334a146	SAMPLE	176168-008	96967	Soil	02-DEC-2004 16:29	1.0	0.09932			3		
147	334a147	SAMPLE	176168-005	96967	Soil	02-DEC-2004 16:58	10.0	0.09978			3		
148	334a148	CCV	dsl			02-DEC-2004 17:26	1.0	1.0			3	4	
149	334a149	CCV	mo			02-DEC-2004 17:55	1.0	1.0			3	5	
150	334a150	X	ccv			02-DEC-2004 18:24	1.0					4	
151	334a151	CCV	ker			02-DEC-2004 18:53	1.0	1.0			3	3	
152	334a152	MSS	176214-001	97063	Soil	02-DEC-2004 19:22	1.0	0.09976	6		3		
153	334a153	SAMPLE	176214-002	97063	Soil	02-DEC-2004 19:51	1.0	0.1002			3		
154	334a154	SAMPLE	176214-009	97063	Soil	02-DEC-2004 20:19	1.0	0.1004			3		
155	334a155	LCS	QC274458 S	97026	Soil	02-DEC-2004 20:48	1.0	0.1001			3		
156	334a156	MS	QC274605	97063	Soil	02-DEC-2004 21:17	1.0	0.09948			3		

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 174481498 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
157	334a157	MSD	QC274606	97063	Soil	02-DEC-2004 21:45	1.0	0.1001			3		
158	334a158	SAMPLE	176214-014	97063	Soil	02-DEC-2004 22:14	1.0	0.09942			3		
159	334a159	SAMPLE	176214-005	97063	Soil	02-DEC-2004 22:42	1.0	0.09911		1	3		
160	334a160	SAMPLE	176214-013	97063	Soil	02-DEC-2004 23:11	1.0	0.09968			3		
161	334a161	SAMPLE	176329-001	97063	Soil	02-DEC-2004 23:39	1.0	0.1000			3		
162	334a162	CCV	dsl			03-DEC-2004 00:08	1.0	1.0			3	12	
163	334a163	CCV	mo			03-DEC-2004 00:36	1.0	1.0			3	5	
164	334a164	X	ccv			03-DEC-2004 01:04	1.0					12	
165	334a165	SAMPLE	176214-015	97063	Soil	03-DEC-2004 01:33	1.0	0.09988			3		
166	334a166	SAMPLE	176214-004	97063	Soil	03-DEC-2004 02:01	1.0	0.09994			3		
167	334a167	SAMPLE	176329-002	97063	Soil	03-DEC-2004 02:29	1.0	0.09992			3		2:BUNKC:=6748.37
168	334a168	SAMPLE	176214-003	97063	Soil	03-DEC-2004 02:58	1.0	0.09998			3		
169	334a169	SAMPLE	176299-002 S	97063	Soil	03-DEC-2004 03:26	2.0	0.09907			3		
170	334a170	SAMPLE	176214-012	97063	Soil	03-DEC-2004 03:54	20.0	0.09952			3		
171	334a171	SAMPLE	176214-010	97063	Soil	03-DEC-2004 04:23	1.0	0.09998			3		
172	334a172	SAMPLE	176214-011	97063	Soil	03-DEC-2004 04:51	1.0	0.09934			3		
173	334a173	SAMPLE	176214-006	97063	Soil	03-DEC-2004 05:20	3.0	0.1003			3		
174	334a174	SAMPLE	176214-008	97063	Soil	03-DEC-2004 05:48	3.0	0.1002			3		
175	334a175	CCV	dsl			03-DEC-2004 06:16	1.0	1.0			3	7	
176	334a176	CCV	mo			03-DEC-2004 06:45	1.0	1.0			3	5	
177	334a177	X	ccv			03-DEC-2004 07:13	1.0					7	

Stds used: 1=04WS1975 2=04WS2074 3=04WS2027 4=04WS2207 5=04WS2195 6=04WS1974 7=04WS2215 8=04WS1699 9=04WS1817 10=04WS1718 11=04WS1719 12=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114484417 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 01-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	336a001	X	ib			01-DEC-2004 09:37	1.0					
002	336a002	CCV	dsl			01-DEC-2004 10:06	1.0	1.0	1	3	1	
003	336a003	CCV	mo			01-DEC-2004 10:35	1.0	1.0		3	2	
004	336a004	SAMPLE	176199-001	96994	Soil	01-DEC-2004 11:28	1.0	0.0995		3		1:BUNKC:=13229.0
005	336a005	SAMPLE	176199-002	96994	Soil	01-DEC-2004 11:58	1.0	0.1001		3		
006	336a006	LCS	QC273979 S	96909	Water	01-DEC-2004 12:27	1.0	0.005	1	3		
007	336a007	SAMPLE	176252-001 S	96989	Water	01-DEC-2004 12:56	1.0	0.005		3		
008	336a008	SAMPLE	176252-002 S	96989	Water	01-DEC-2004 13:26	1.0	0.005		3		
009	336a009	SAMPLE	176252-003 S	96989	Water	01-DEC-2004 13:55	1.0	0.005		3		
010	336a010	SAMPLE	176100-003 S	96909	Water	01-DEC-2004 14:33	1.0	0.005		3		
011	336a011	SAMPLE	176100-004 S	96909	Water	01-DEC-2004 15:43	1.0	0.005		3		
012	336a012	SAMPLE	176188-010	96994	Soil	01-DEC-2004 16:12	1.0	0.09992		3		
013	336a013	SAMPLE	176188-008	96994	Soil	01-DEC-2004 16:41	1.0	0.1002		3		
014	336a014	CCV	dsl			01-DEC-2004 17:10	1.0	1.0		3	3	
015	336a015	CCV	mo			01-DEC-2004 17:40	1.0	1.0		3	2	
016	336a016	CCV	jp-5			01-DEC-2004 18:09	1.0	1.0		3	4	
017	336a017	CCV	jp-8			01-DEC-2004 18:39	1.0	1.0		3	5	
018	336a018	SAMPLE	176089-006	96909	Water	01-DEC-2004 19:08	1.0	0.005	1	3		4:BUNKC:=11765.0
019	336a019	SAMPLE	176089-008	96909	Water	01-DEC-2004 19:37	1.0	0.005		3		
020	336a020	SAMPLE	176051-001	96917	Soil	01-DEC-2004 20:07	10.0	0.09909		3		1:BUNKC:=5164.51
021	336a021	SAMPLE	176089-012	96967	Soil	01-DEC-2004 20:37	1.0	0.1000	1	3		4:BUNKC:=11389.1
022	336a022	SAMPLE	176089-001	96967	Soil	01-DEC-2004 21:06	1.0	0.0994	1	3		4:DSL:10=8144.43
023	336a023	SAMPLE	176089-002	96967	Soil	01-DEC-2004 21:36	1.0	0.09917		3		1:BUNKC:=8246.33
024	336a024	SAMPLE	176089-004	96967	Soil	01-DEC-2004 22:05	1.0	0.09909	1	3		3:DSL:10=8274.67
025	336a025	SAMPLE	176089-005	96967	Soil	01-DEC-2004 22:35	1.0	0.0999		3		
026	336a026	SAMPLE	176089-010	96967	Soil	01-DEC-2004 23:04	1.0	0.1001		3		
027	336a027	SAMPLE	176089-009	96967	Soil	01-DEC-2004 23:33	10.0	0.1005		3		
028	336a028	CCV	dsl			02-DEC-2004 00:03	1.0	1.0		3	6	
029	336a029	X	ccv			02-DEC-2004 00:32	1.0				6	
030	336a030	CCV	mo			02-DEC-2004 01:01	1.0	1.0		3	2	
031	336a031	CCV	jp-5			02-DEC-2004 01:30	1.0	1.0		3	4	

Stds used: 1=04WS2215 2=04WS2195 3=04WS2207 4=04WS1718 5=04WS1719 6=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114484417 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 01-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	336a032	CCV	jp-8			02-DEC-2004 02:00	1.0	1.0		3	5	
033	336a033	LCS	QC274012 S	96917	Soil	02-DEC-2004 02:29	1.0	0.1001		3		
034	336a034	MS	QC274013 S	96917	Soil	02-DEC-2004 02:58	1.0	0.09958		3		
035	336a035	X	QC274014 S	96917	Soil	02-DEC-2004 03:27	1.0	0.1002		3		
036	336a036	MSS	176248-003 S	96917	Soil	02-DEC-2004 03:56	1.0	0.09954	5	3		
037	336a037	SAMPLE	176089-003	96909	Water	02-DEC-2004 04:26	1.0	0.005		3		1:BUNKC:=13773.3
038	336a038	SAMPLE	176089-007	96909	Water	02-DEC-2004 04:55	1.0	0.005		3		1:BUNKC:=10758.4
039	336a039	SAMPLE	176089-011	96967	Soil	02-DEC-2004 05:24	1.0	0.09917		3		
040	336a040	SAMPLE	176089-013	96967	Soil	02-DEC-2004 05:53	1.0	0.09982		3		3:BUNKC:=18603.5
041	336a041	SAMPLE	176168-012	96994	Soil	02-DEC-2004 06:22	1.0	0.09936		3		
042	336a042	SAMPLE	176168-016	96994	Soil	02-DEC-2004 06:51	1.0	0.09998		3		
043	336a043	X	dsl			02-DEC-2004 07:20	1.0	1.0		3	1	
044	336a044	CCV	dsl			02-DEC-2004 07:49	1.0	1.0		3	1	
045	336a045	CCV	mo			02-DEC-2004 08:18	1.0	1.0		3	2	
046	336a046	CCV	jp5			02-DEC-2004 08:47	1.0	1.0		3	4	
047	336a047	CCV	jp8			02-DEC-2004 09:17	1.0	1.0		3	5	
048	336a048	SAMPLE	176188-005	96994	Soil	02-DEC-2004 09:46	1.0	0.09952		3		
049	336a049	SAMPLE	176168-015	96994	Soil	02-DEC-2004 10:16	1.0	0.1003		3		
050	336a050	SAMPLE	176188-009	96994	Soil	02-DEC-2004 10:45	1.0	0.09936		3		
051	336a051	SAMPLE	176188-001	96994	Soil	02-DEC-2004 11:15	1.0	0.09911		3		
052	336a052	SAMPLE	176188-006	96994	Soil	02-DEC-2004 11:45	1.0	0.1006		3		
053	336a053	SAMPLE	176168-013	96994	Soil	02-DEC-2004 12:14	1.0	0.09934		3		
054	336a054	LCS	QC274458	97026	Soil	02-DEC-2004 12:44	1.0	0.1001	2	3		
055	336a055	SAMPLE	176302-005 S	97026	Soil	02-DEC-2004 13:13	1.0	0.1003		3		
056	336a056	SAMPLE	176188-002	96994	Soil	02-DEC-2004 13:43	1.0	0.09984		3		1:BUNKC:=10001.4
057	336a057	SAMPLE	176188-004	96994	Soil	02-DEC-2004 14:12	1.0	0.09919		3		1:BUNKC:=8799.94
058	336a058	CCV	dsl			02-DEC-2004 14:42	1.0	1.0	2	3	3	
059	336a059	CCV	mo			02-DEC-2004 15:11	1.0	1.0	2	3	2	
060	336a060	X	ccv			02-DEC-2004 16:32	1.0				3	
061	336a061	CCV	jp5			02-DEC-2004 17:01	1.0	1.0		3	4	
062	336a062	CCV	jp8			02-DEC-2004 17:31	1.0	1.0		3	5	

Stds used: 1=04WS2215 2=04WS2195 3=04WS2207 4=04WS1718 5=04WS1719 6=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114484417 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 01-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	336a063	SAMPLE	176089-001	96967	Soil	02-DEC-2004 18:00	10.0	0.0994		3		
064	336a064	SAMPLE	176089-004	96967	Soil	02-DEC-2004 18:30	10.0	0.09909		3		
065	336a065	SAMPLE	176089-005	96967	Soil	02-DEC-2004 19:00	10.0	0.0999		3		
066	336a066	SAMPLE	176089-012	96967	Soil	02-DEC-2004 19:30	5.0	0.1000		3		
067	336a067	SAMPLE	176089-003	96909	Water	02-DEC-2004 19:59	20.0	0.005		3		
068	336a068	SAMPLE	176089-006	96909	Water	02-DEC-2004 20:29	3.0	0.005		3		
069	336a069	SAMPLE	176089-007	96909	Water	02-DEC-2004 20:59	20.0	0.005		3	1:BUNKC:=6082.17	
070	336a070	SAMPLE	176051-006	96917	Soil	02-DEC-2004 21:28	1.0	0.1001	1	3	3:DSL:10=7375.84	
071	336a071	SAMPLE	176168-014	96994	Soil	02-DEC-2004 21:58	1.0	0.1004		3		
072	336a072	SAMPLE	176168-011	96994	Soil	02-DEC-2004 22:27	1.0	0.1001		3	1:BUNKC:=14047.9	
073	336a073	CCV	dsl			02-DEC-2004 22:57	1.0	1.0		3	6	
074	336a074	X	ccv			02-DEC-2004 23:26	1.0				6	
075	336a075	CCV	mo			02-DEC-2004 23:55	1.0	1.0		3	2	
076	336a076	CCV	jp5			03-DEC-2004 00:24	1.0	1.0		3	4	
077	336a077	CCV	jp8			03-DEC-2004 00:54	1.0	1.0		3	5	

Stds used: 1=04WS2215 2=04WS2195 3=04WS2207 4=04WS1718 5=04WS1719 6=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144485974 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 02-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	337b001	X	primer			02-DEC-2004 11:34	1.0					
002	337b002	X	ib			02-DEC-2004 12:02	1.0					
003	337b003	CCV	dsl			02-DEC-2004 12:31	1.0	1.0		3	1	
004	337b004	CCV	mo			02-DEC-2004 12:59	1.0	1.0		3	2	
005	337b005	MSD	QC274014 S	96917	Soil	02-DEC-2004 13:43	1.0	0.1002		3		
006	337b006	BS	QC274551	97049	Miscel	02-DEC-2004 14:11	1.0	0.05	1	3		1:HXCS=96.4454
007	337b007	BSD	QC274552	97049	Miscel	02-DEC-2004 14:39	1.0	0.05	1	3		1:HXCS=110.820
008	337b008	BLANK	QC274550	97049	Miscel	02-DEC-2004 15:25	1.0	0.1000	10	3		
009	337b009	SAMPLE	176297-002 S	97026	Soil	02-DEC-2004 15:53	1.0	0.1005		3		
010	337b010	SAMPLE	176297-003 S	97026	Soil	02-DEC-2004 16:21	1.0	0.1001		3		
011	337b011	SAMPLE	176297-001 S	97026	Soil	02-DEC-2004 16:49	1.0	0.09972		3		
012	337b012	SAMPLE	176188-007	96994	Soil	02-DEC-2004 17:17	1.0	0.09966		3		
013	337b013	SAMPLE	176188-003	96994	Soil	02-DEC-2004 17:45	1.0	0.1001		3		
014	337b014	SAMPLE	176185-001	97026	Soil	02-DEC-2004 18:14	1.0	0.09948		3		
015	337b015	X	ib			02-DEC-2004 18:42	1.0					
016	337b016	CCV	dsl			02-DEC-2004 19:11	1.0	1.0		3	3	
017	337b017	CCV	mo			02-DEC-2004 19:39	1.0	1.0		3	2	
018	337b018	X	dsl			02-DEC-2004 20:07	1.0	1.0		3	3	
019	337b019	CCV	ker			02-DEC-2004 20:35	1.0	1.0		3	4	
020	337b020	SAMPLE	176256-002 S	96989	Water	02-DEC-2004 21:04	1.0	0.005		3		
021	337b021	SAMPLE	176256-003 S	96989	Water	02-DEC-2004 21:32	1.0	0.005		3		
022	337b022	SAMPLE	176242-001	97026	Soil	02-DEC-2004 22:00	1.0	0.09923		3		
023	337b023	SAMPLE	176242-002	97026	Soil	02-DEC-2004 22:28	1.0	0.09917		3		
024	337b024	MSS	176242-004	97026	Soil	02-DEC-2004 22:56	1.0	0.0994	9	3		
025	337b025	SAMPLE	176242-005	97026	Soil	02-DEC-2004 23:24	1.0	0.0996		3		5:BUNKC:=10125.0
026	337b026	SAMPLE	176242-006	97026	Soil	02-DEC-2004 23:51	1.0	0.1002	1	3		9:BUNKC:=12349.3
027	337b027	SAMPLE	176242-007	97026	Soil	03-DEC-2004 00:19	1.0	0.09938		3		
028	337b028	SAMPLE	176242-003	97026	Soil	03-DEC-2004 00:47	1.0	0.09948		3		1:BUNKC:=7489.72
029	337b029	SAMPLE	176160-001	97049	Miscel	03-DEC-2004 01:15	200.0	0.6689	1	3		5:BUNKC:=11994.3
030	337b030	CCV	dsl			03-DEC-2004 01:42	1.0	1.0		3	5	
031	337b031	CCV	mo			03-DEC-2004 02:10	1.0	1.0		3	2	

Stds used: 1=04WS2215 2=04WS2195 3=04WS2207 4=04WS2027 5=04WS2258

SEQUENCE SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144485974 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 02-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	337b032	X	ccv			03-DEC-2004 02:38	1.0					5	
033	337b033	CCV	ker			03-DEC-2004 03:05	1.0	1.0			3	4	
034	337b034	SAMPLE	176153-015	96909	Water	03-DEC-2004 03:33	50.0	0.005			3		1:BUNKC:=8538.48
035	337b035	SAMPLE	176242-010	97026	Soil	03-DEC-2004 04:01	1.0	0.1002			3		
036	337b036	SAMPLE	176217-002	97026	Soil	03-DEC-2004 04:28	1.0	0.0997			3		
037	337b037	SAMPLE	176217-003	97026	Soil	03-DEC-2004 04:56	1.0	0.09956			3		
038	337b038	SAMPLE	176217-006	97026	Soil	03-DEC-2004 05:24	1.0	0.0997			3		
039	337b039	SAMPLE	176217-008	97026	Soil	03-DEC-2004 05:51	1.0	0.1002			3		
040	337b040	SAMPLE	176217-004	97026	Soil	03-DEC-2004 06:19	1.0	0.1001			3		
041	337b041	SAMPLE	176217-007	97026	Soil	03-DEC-2004 06:47	1.0	0.09915	2		3		8:BUNKC:=20324.3
042	337b042	MS	QC274459	97026	Soil	03-DEC-2004 07:14	1.0	0.09954			3		
043	337b043	MSD	QC274460	97026	Soil	03-DEC-2004 07:42	1.0	0.1001		1	3		
044	337b044	CCV	dsl			03-DEC-2004 08:10	1.0	1.0			3	1	
045	337b045	CCV	mo			03-DEC-2004 08:38	1.0	1.0			3	2	
046	337b046	X	ccv			03-DEC-2004 09:05	1.0					1	
047	337b047	CCV	ker			03-DEC-2004 09:33	1.0	1.0			3	4	

Stds used: 1=04WS2215 2=04WS2195 3=04WS2207 4=04WS2027 5=04WS2258

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
176248-003	GC11A	12/02/04 03:56	1.0	+	+	+	
QC274011	GC13B	12/01/04 12:32	1.0				
QC274011	GC17A	12/01/04 16:18	1.0	+	+	+	
QC274012	GC17A	11/30/04 23:58	1.0				
QC274012	GC13B	12/01/04 12:01	1.0				
QC274012	GC11A	12/02/04 02:29	1.0	+		+	
QC274013	GC17A	12/01/04 00:26	1.0				
QC274013	GC11A	12/02/04 02:58	1.0	+		+	
QC274014	GC17A	12/01/04 00:55	1.0				
QC274014	GC13B	12/02/04 13:43	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 30-NOV-2004 18:01

Batch Number : 96917
Date Extracted: 29-NOV-2004
Extracted by : Jessie O'Brien Mee
Prep Method : SHAKER TABLE

Analysis : N/A
Bgroup : TEH
Units : g
Clean-up :

Spike #1 ID : 04WS2163D
Spike #2 ID : 04WS2222B
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176051-001			Tetra Tech FW, INC	Soil	50.46	g	5	0.099088	1		1	0		TEH		
176051-002			Tetra Tech FW, INC	Soil	49.92	g	5	0.100160	1		1	0		TEH		
176051-004			Tetra Tech FW, INC	Soil	49.87	g	5	0.100261	1		1	0		TEH		
176051-006			Tetra Tech FW, INC	Soil	49.93	g	5	0.100140	1		1	0		TEH		
176051-007			Tetra Tech FW, INC	Soil	49.88	g	5	0.100241	1		1	0		TEH		
176051-009			Tetra Tech FW, INC	Soil	49.88	g	5	0.100241	1		1	0		TEH		
176051-011			Tetra Tech FW, INC	Soil	50.45	g	5	0.099108	1		1	0		TEH		
176051-013			Tetra Tech FW, INC	Soil	49.82	g	5	0.100361	1		1	0		TEH		
176051-015			Tetra Tech FW, INC	Soil	50.19	g	5	0.099621	1		1	0		TEH		
176051-017			Tetra Tech FW, INC	Soil	50.05	g	5	0.099900	1		1	0		TEH		
176051-019			Tetra Tech FW, INC	Soil	49.98	g	5	0.100040	1		1	0		TEH		
176142-002			URS Corporation	Soil	50.13	g	5	0.099741	1		1	0		TEH		
176142-003			URS Corporation	Soil	50.27	g	5	0.099463	1		1	0		TEH		
176142-004			URS Corporation	Soil	50.14	g	5	0.099721	1		1	0		TEH		
176142-005			URS Corporation	Soil	50.08	g	5	0.099840	1		1	0		TEH		
176153-030			URS Corporation	Soil	50.2	g	5	0.099602	1		1	0		TEHM		
176153-037			URS Corporation	Soil	50	g	5	0.100000	1		1	0		TEHM		
176248-003			Treadwell & Rollo	Soil	50.23	g	5	0.099542	1		1	0		TEHM	3630C	MSS, sg
QC274011	MB			Soil	50.36	g	5	0.099285	1		1	0		TEH	3630C	sg
QC274012	LCS			Soil	49.97	g	5	0.100060	1		1	1		TEH	3630C	sg
QC274013	MS	of 176248-003		Soil	50.21	g	5	0.099582	1		1	1		TEH	3630C	sg
QC274014	MSD	of 176248-003		Soil	49.89	g	5	0.100220	1		1	1		TEH	3630C	sg

Prep Chemist: JBD for Jom 11/30/04 Reviewed By: [signature] Date: 11/30/04

Relinquished By: [signature] Received By: VO Date: 12-03-04

Curtis & Tompkins, Ltd. **TEH SOIL PREP LOG** BK 1990

Page 88

LIMS Batch No: 96917 Extraction Method: Cleanup Method (if necessary):

LIMS Analysis: TEH ☒ Mechanical Shaker Table ☒ EPA 3630 Silica Gel

Extracted by: JOM ☐ EPA 3550 Sonication ☐ Other

Date Extracted: 29 Nov 04 ☐ Other

	Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
	176051-001A	50.46	5.0		
	002B	49.92			
	004A	49.85			
	006	49.93			
5	007B	49.88			
	009	49.96			
	011A	50.15			
	013	49.82			
	015	50.19			
10	017B	50.05			
	019A	49.98			
	176142-002A	50.13			
	003	50.27			
	004	50.14			
15	005	50.08			
	176153-030	50.20			
	037	50.00			
	176248-003	50.23		X	MSS
	MB QC2.74011	50.06			
20	LCS 12	49.97			
	MS 13	50.21			
	MSD 14	49.89			
			11/29/04		

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM4402842	JOM 11/29/04
Samples were dried with CH2Cl2-rinsed granular Na2SO4	EM4425421	
1.0 mL of TEH SURR surrogate solution was added to all samples	04US2163D	
1.0 mL of TEH SP matrix spiking solution was added to all spikes	04US2222B	
≥ 75 mL of 1+1 (CH2Cl2+Acetone) was added to all CH2Cl2	EM4414	
Acetone	EM4423	
Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:	0820	
taken off shaker table at:	1020	
Extracts filtered through baked, rinsed, powdered Na2SO4	EM4425433	JOM 11/30/04
Concentrated to volumes as noted above	✓	

JOM 11/29/04
Extraction Chemist / Date

Continued from page
Continued to page

11/30/04
Reviewed by / Date

Hall & Associates, Ltd. — Silica Gel Cleanup — EPA 3630c

Prep Chemist: SLC
Cleanup Date: 11/30/04

Benchbook # BK 2028
Page 31

Sample #	Batch #	Initial Volume (mL)	Final Volume (mL)	Comments
MB DC27401	96917	1.0	1.0	
LCS 2				
MS 3				
MSD 4				
1 16848-003				MSS
5				
10				
15				
20				
25				
30				

SLC 11/30/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using C&T assembled 1.0 g columns		SLC 11/30/04
☐ Extracts were cleaned up using ___ g cartridges	N/A	
Extracts were eluted with 10 mL hexane	Empty 375	
Concentrated to volumes as noted above		

11/30/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

12/2/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: JDM
Cleanup Date: 1 Dec 04

Benchbook # **BK 2028**
Page 32

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
1760252-001	96989	1.0	1.0	
-002				
-003				
MB QC274318				
BS 19				
BSD 20				
1760248-003	96917	1.0	1.0	MSS
MB QC274011				
LCS 12				
MS 13				
MSD 14				
1760144-003	96989			
-004				
-005				
1760244-001				
1760256-001				
-002				
-003				

JDM 12/1/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using C&T assembled 1.0 g columns	✓	JDM 12/1/04
☐ Extracts were cleaned up using ____ g cartridges	N/A	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM44275	
Concentrated to volumes as noted above	✓	

[signature] 12/1/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

[signature] 12/1/04
Reviewed by / Date

BK2032

Project Soil Aliquot

Continued from Page

Sample I.D.	Weight (g)	Analysis	Comments
176216-005	50.20	TEHM	4. COMPIA-4A
176154-001B	49.98	TEHM	SLUDGE, M Misc.
176153-001A	50.48	TEHM	
-002	50.22		
-003	50.48		
-004	49.84		
-005	50.33		
-006	50.18		
-007	50.08		
-009	50.12		
-010	50.46		
-011	50.13		
-012	50.11		
-013	50.18		
-020	49.78		
-021	50.07		
-022	50.38		
-023	50.46		
-025	49.74		
-026	49.90		
-027	50.06		
-028	50.03		
-029C	50.37		MSS
-030A	50.20		
-031	50.30		
-032	50.40		
-033	50.13		
-034	50.05		
-036	50.23		
-037	50.06		176153-030A
MSD	50.20		
MS	50.20		TM 4/6/28/21
LCS	50.30		
MB	49.81		

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Read and Understood By

Signed: [illegible] Date: 11/23/09

Signed: Date:

Project Soil Aquifer BK2032

Continued from Page

Sample I.D.	Weight (g)	Analysis	Comments
176051-001A	50.46	TEH	
-002B	49.92		
-004A	49.87		
-006A	49.93		
-007B	49.88		
-009B	49.88		
-011A	50.45		
-013A	49.82		
-015A	50.19		
-017B	50.05		
-019A	49.98		
176185-001A	50.26	TEH	
-001	29.82	8270	
-001	5.18	8081	
-001	15.17	PCB	
176142-001A	50.20	TEH	4 comp A D
-002	50.13		
-003	50.27		
-004	50.14		
-005	50.08		
176217-002A	50.15	TEHM	Benzene
-003	50.22		
-004	49.94		
-006	50.15		
-007	50.43		
-008	49.91		
176089-001A	50.30	TEH	JET
-002	50.42		
-004	50.46		
-005	50.05		
-008	49.73		
-010	49.97		
-011	50.42		
-012	49.98		
-013	50.09		

Continued on Page

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Michelle Curtis 11-3-04

Signed Signed

Project: Soil Acronot BR-2032

Continued from Page

Sample ID	Weight (g)	Analysis	Comments
176248-001A	15.05	8081	MSS
-002	15.18		
-004	15.20		
-005	15.00		
176248-001A	14.78	PCB	
-002	14.88		
-004	15.16		
-005	15.01		
MS	14.80	8081	176248-001A
MSD	14.95		
176247-001A	15.01	PCB	
176185-001A	15.17	PCB	
-001A	15.18	8081	
176185-001A	29.82	8270	
-001A	50.26	TEH	
176247-001A	49.93	TEH	
176242-001A	50.39		
-002	50.42		
-003	50.26		MSS
-004	50.30		
-005	50.20		
-006	49.92		
-007	50.31		
-008	49.89		
MS -009	50.03		176242-001A
MSD	49.94		EMP4028421
CLS	49.97		
MB	50.36		

No Work

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Michelle Curtis 11/23/04

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Signed Date

42 Project Sac Acamot BK2032

Continued from Page

SAMPLE ID	WEIGHT g	ANALYSIS	COMMENTS
176248-003A	29.80	8270	
MS	3.16	↓	176248-003A
MSD	30.09	TEHM	↓
176248-003A	50.23	↓	176248-003A
MS	50.21		↓
MSD	49.89		
176250-010	15.00	8081	3 COMP 1A-3A
↓ -011	15.01	↓	4A-6A
-012	14.97		7A-9A
176249-016	15.02	8081	3 COMP 1A-3A
↓ -017	14.84	↓	MSS 4A-6A
-018	15.10		7A-9A
-019	14.87		10A-12A
↓ -020	14.92		13A-15A
LCS	14.99	8081	CM4402842
MB	15.01	↓	↓
MS	14.92	8081	176249-017
MSD	14.92	↓	↓

Continued on Page

Michelle Curtis 11/24/04

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Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil SHAKER TABLE

Analyte	Units	GC11A	GC13B	GC15B	GC17A
Diesel C10-C20	mg/Kg		10/20/04 0.30	10/20/04 0.29	10/20/04 0.20
Diesel C10-C22	mg/Kg	10/26/04 0.57	10/20/04 0.30	10/20/04 0.30	10/20/04 0.19
Diesel C10-C24	mg/Kg	10/26/04 0.55	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C10-C28	mg/Kg	10/26/04 0.68	10/20/04 0.32	10/20/04 0.30	10/20/04 0.40
Diesel C12-C28	mg/Kg		10/20/04 0.32		
Diesel C12-C36	mg/Kg	10/26/04 0.60	10/20/04 0.32		
Diesel C12-C32	mg/Kg			10/20/04 0.31	10/20/04 0.50
Diesel C12-C24	mg/Kg	10/26/04 0.42	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C12-C22	mg/Kg	10/26/04 0.44	10/20/04 0.31	10/20/04 0.30	10/20/04 0.20
Motor Oil C20-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.68	03/30/04 0.32
Motor Oil C22-C36	mg/Kg	04/06/04 2.4	04/10/04 0.54	04/10/04 0.71	03/30/04 0.32
Motor Oil C24-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.80	03/30/04 0.30
Motor Oil C22-C32	mg/Kg	04/06/04 2.6	04/10/04 0.64	04/10/04 0.54	03/30/04 0.31
Hexacosane	mg/Kg	09/20/03 0.17	08/15/03 0.11	08/16/03 0.069	09/05/03 0.17

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC11A	Samplenum:	176248-003 S	Cident	: BB3EX153[0.5]
Seqnum	: 114484417036	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: 336a036	Batchnum	: 96917	Injected	: 02-DEC-2004 03:56
IDF	: 1.0			Units	: mg/Kg

Prep: 50.23 g --> 5.0 ml = 0.09954 ml/g PDF

Analyte	Calibration	Result	RL	B=334a096	Flags
Diesel C12-C24.....	114442646001	10	1.0		
Motor Oil C24-C36.....	114442646002	24	5.0		

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	114481514002	4.977	3.218	65	65-135	

Analyst: LV. Date: 12/02/04 Reviewer: [illegible] Date: [illegible]
Page 1 of 1

Software Version: 4.1<2F12>
Date: 12/2/04 08:52 AM
Sample Name : 176248-003sg,96917
Data File : G:\GC11\CHA\336A036.RAW Date: 12/2/04 03:56 AM
Sequence File: G:\GC11\336.SEQ Cycle: 36 Channel : A
Instrument : GC11 Rack/Vial: 0/36 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	251177	11.23	11.2272	1.00	1.00	11.2272
JETA:10-16	251177	12.95	12.9546	1.00	1.00	12.9546
JP8:10-16	251177	13.22	13.2216	1.00	1.00	13.2216
JP5:10-16	251177	10.20	10.2022	1.00	1.00	10.2022
DSL:10-22	1307179	52.50	52.5032	1.00	1.00	52.5032
GAIAFP:10-24	2200774	51.99	51.9896	1.00	1.00	51.9896
DSL:10-24	2200774	87.47	87.4704	1.00	1.00	87.4704
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1289724	61.77	61.7705	1.00	1.00	61.7705
DSL:10-28	5184602	204.01	204.0148	1.00	1.00	204.0148
DSL:12-24	2183318	103.27	103.2676	1.00	1.00	103.2676
RRFPLH:16-24	1949597	282.15	282.1544	1.00	1.00	282.1544
CRUDE:10-40	7880521	7.88	7.8805	1.00	1.00	7.8805
TRIMSOL:12-36	7514965	305.42	305.4183	1.00	1.00	305.4183
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	7863066	1017.70	1017.7019	1.00	1.00	1017.7019
TRANSOIL:12-40	7863066	273.24	273.2433	1.00	1.00	273.2433
HYFL:12-40	7863066	336.65	336.6467	1.00	1.00	336.6467
MO:22-32	5417038	266.67	266.6662	1.00	1.00	266.6662
MO:20-36	6873490	272.25	272.2493	1.00	1.00	272.2493
MO:22-36	6225241	270.81	270.8111	1.00	1.00	270.8111
HYFL:24-36	5331647	373.07	373.0701	1.00	1.00	373.0701
TPHHF:24-36	5331647	5.33e-07	5.3316e-07	1.00	1.00	5.3316e-07
MO:24-36	5331647	293.35	293.3493	1.00	1.00	293.3493
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

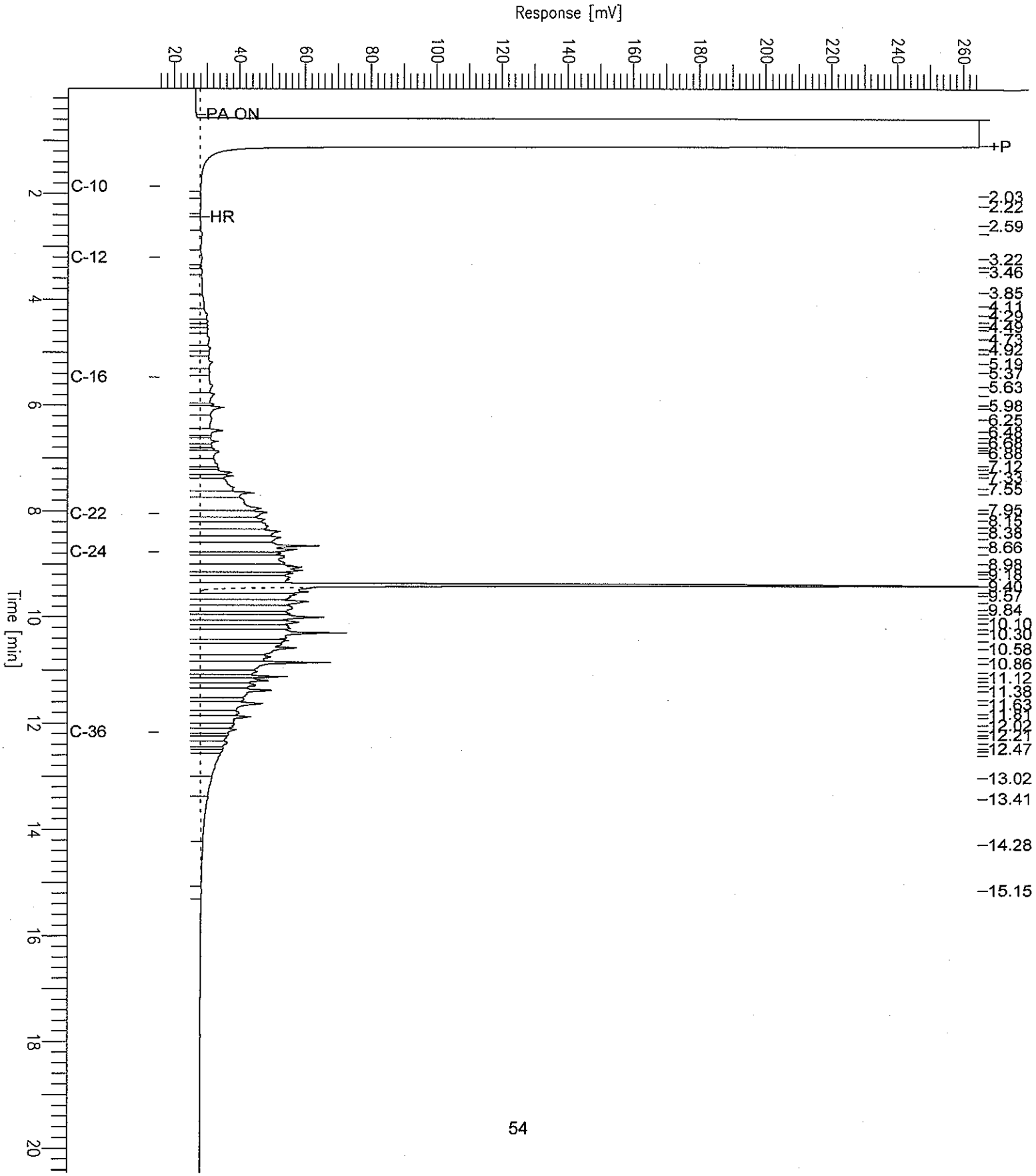
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A036P.TX0

Chromatogram

Sample Name : 176248-003sg,96917
FileName : G:\GC11\CHA\336A036.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #: 96917 Page 1 of 1
Date : 12/2/04 08:52 AM
Time of Injection: 12/2/04 03:56 AM
Low Point : 15.62 mV High Point : 264.90 mV
Plot Scale: 249.3 mV



Software Version: 4.1<2F12>
Date: 12/2/04 04:17 AM
Sample Name : 176248-003sg,96917
Data File : G:\GC11\CHA\336A036.RAW Date: 12/2/04 03:56 AM
Sequence File: G:\GC11\336.SEQ Cycle: 36 Channel : A
Instrument : GC11 Rack/Vial: 0/36 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	886615	32.33	32.3323			9.397	64.6646

CURTIS & TOMPKINS,LTD. BERKELEY

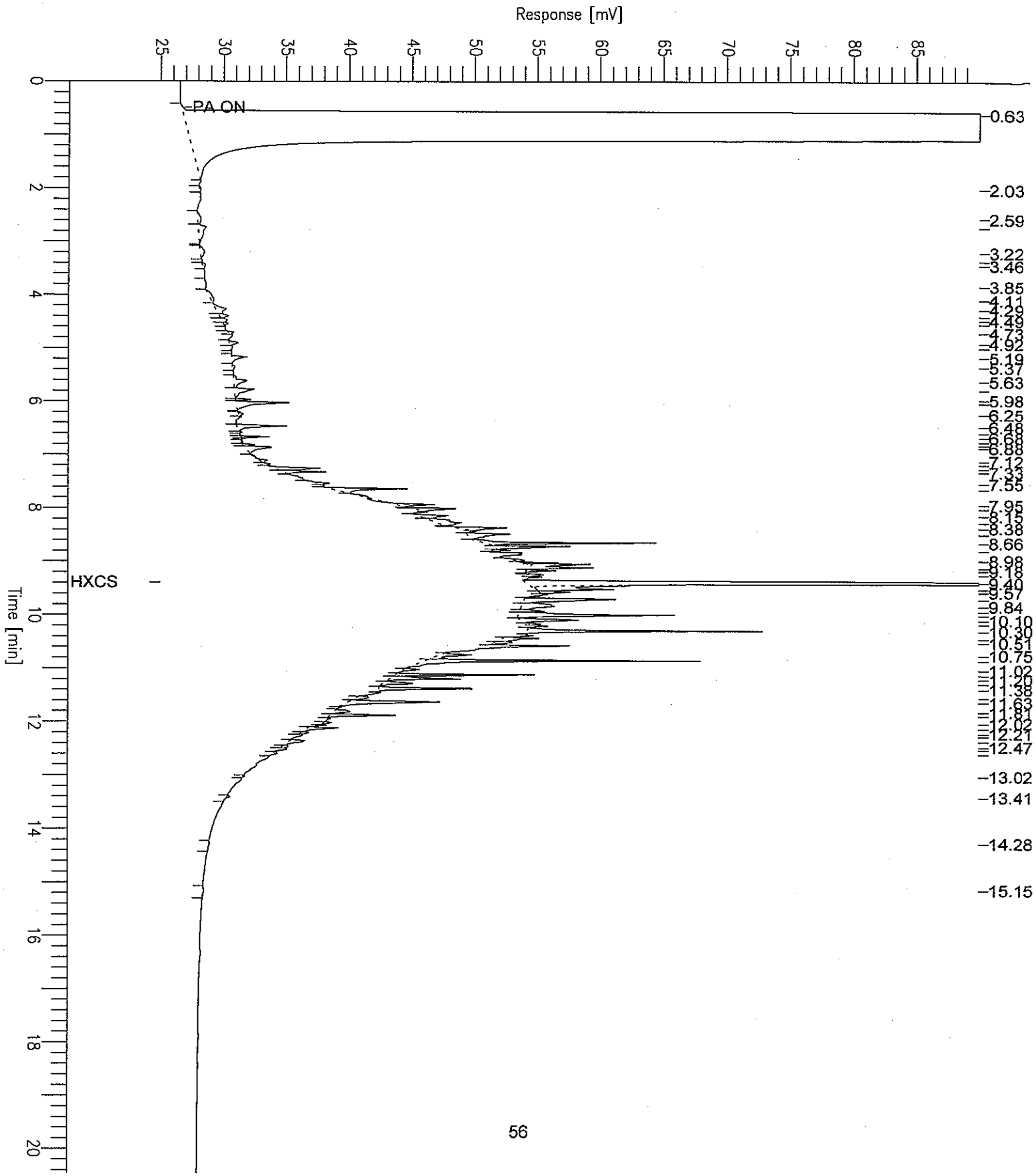
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A036.TX0

Chromatogram

Sample Name : 176248-003sg,96917
FileName : G:\GC11\CHA\336A036.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 96917 Page 1 of 1
Date : 12/2/04 04:17 AM
Time of Injection: 12/2/04 03:56 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid	: GC17A	Samplenum:	QC274011 S	Cident	:
Seqnum	: 174481498096	Matrix	: Soil	Acctnum	: QC
Filename	: 334a096	Batchnum	: 96917	Injected	: 01-DEC-2004 16:18
IDF	: 1.0			Units	: mg/Kg

Prep: 50.36 g --> 5.0 ml = 0.09929 ml/g PDF

Analyte	Calibration	Result	RL	Flags
JP-5 C10-C16	174481498003	ND	0.99	
JP-8, C10-C16	174481498004	ND	0.99	
Kerosene C10-C16	174481498001	ND	0.99	
Diesel C10-C24	174472877001	ND	0.99	
Diesel C12-C24	174472877001	ND	0.99	u
Motor Oil C24-C36	174472877002	ND	5.0	u

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	174472877003	4.964	4.916	99	65-134	u

GV. 12/02/04

mcx 12/3/04

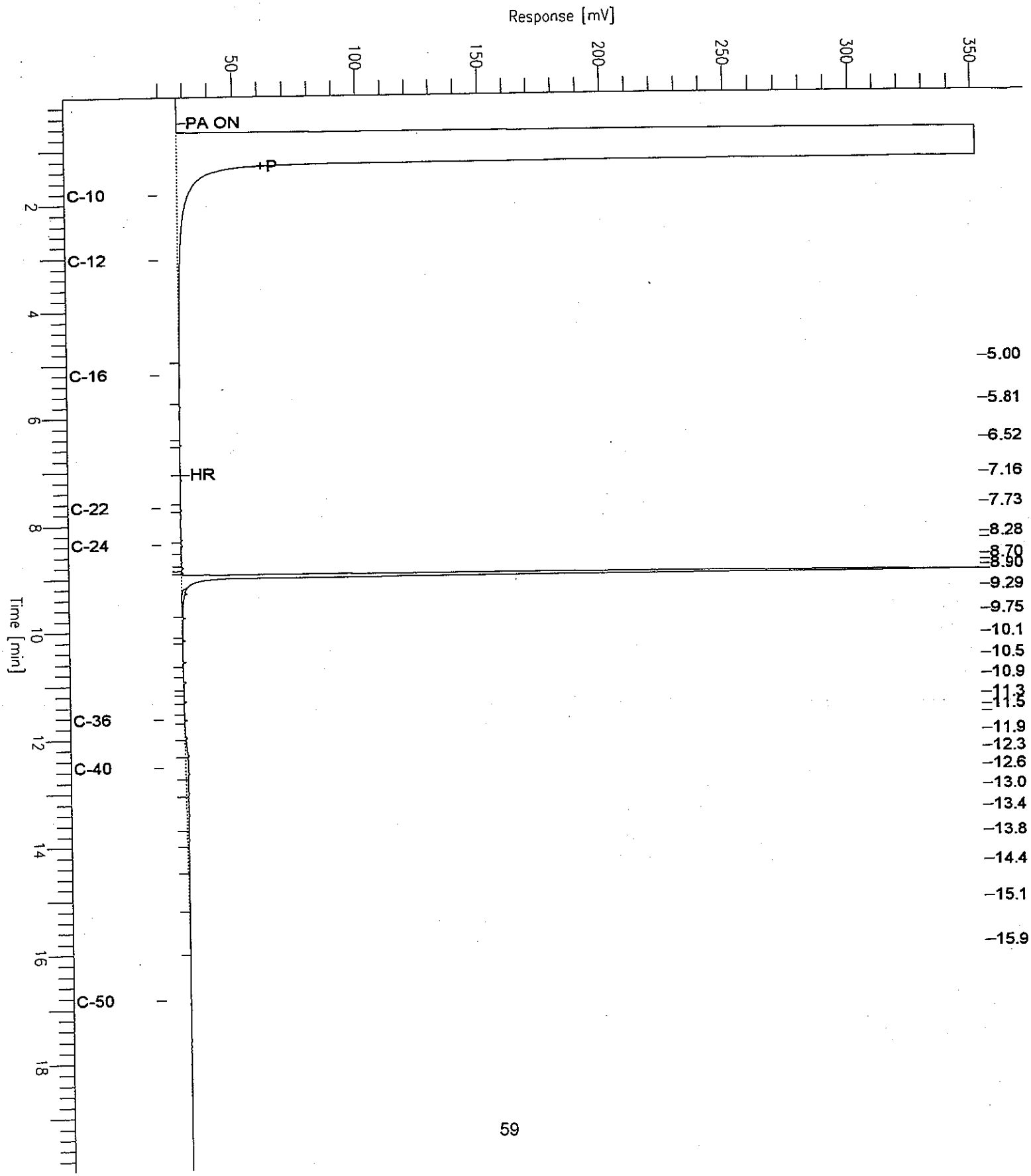
u=use

Chromatogram

Sample Name : mb,qc274011sg,96917
FileName : G:\GO17\CHA\334A096.RAW
Method : ATEH336.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 20 mV

Sample #: 96917
Date : 12/1/04 04:48 PM
Time of Injection: 12/1/04 04:18 PM
Low Point : 19.55 mV
Plot Scale: 332.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 04:38 PM
Sample Name : mb,qc274011sg,96917
Data File : G:\GC17\CHA\334A096.RAW Date: 12/1/04 04:18 PM
Sequence File: G:\GC17\334.SEQ Cycle: 96 Channel : A
Instrument : GC17 Rack/Vial: 0/96 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1356340	49.51	49.5115			8.985	99.0229

CURTIS & TOMPKINS,LTD. BERKELEY

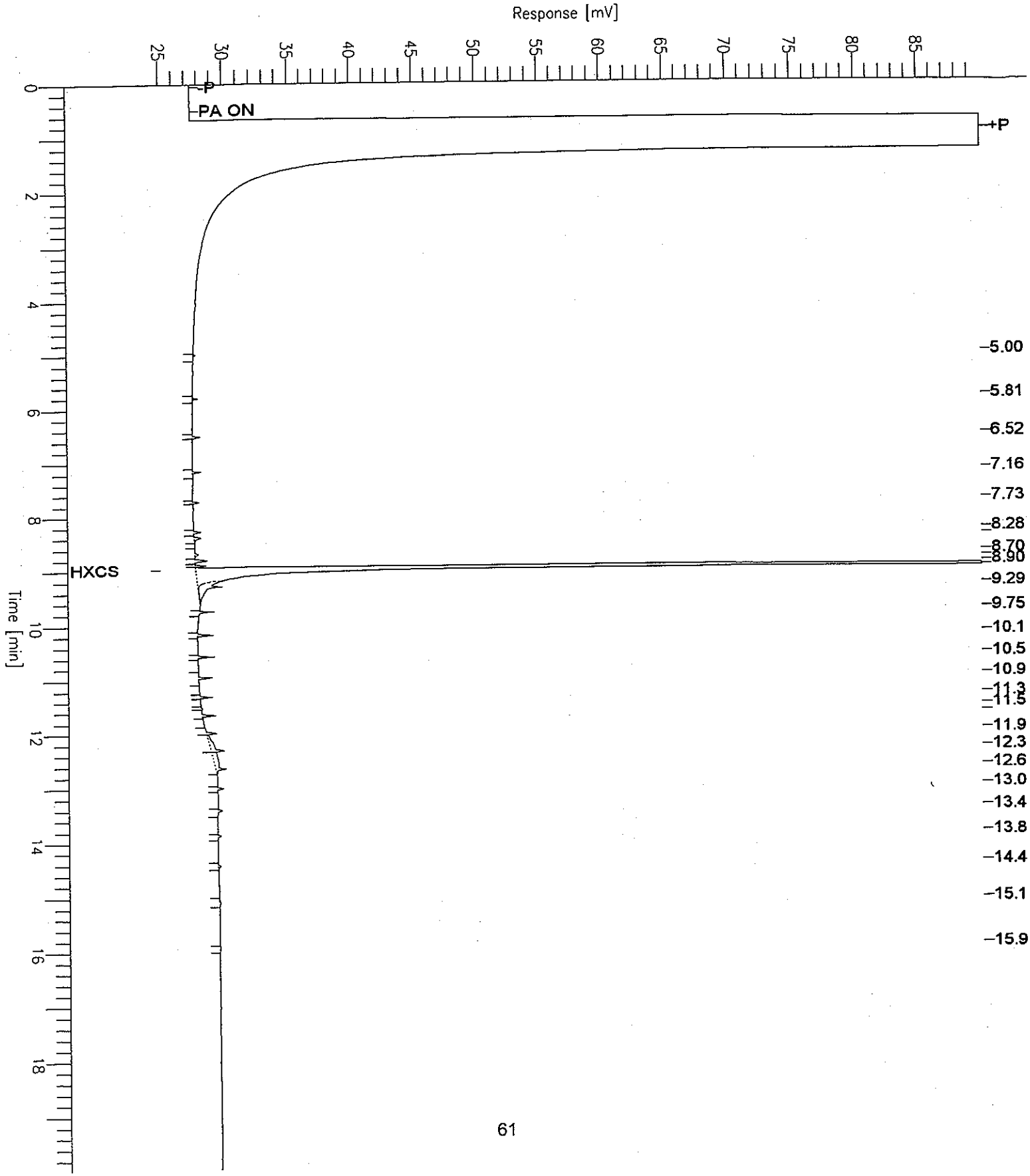
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\334A096.TX0

Chromatogram

Sample Name : mb,qc274011sg,96917
FileName : G:\GC17\CHA\334A096.raw
Method : 20mima
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 96917
Date : 12/1/04 04:38 PM
Time of Injection: 12/1/04 04:18 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid : GC11A
Seqnum : 114484417033
Filename : 336a033
IDF : 1.0
Run type : LCS
Samplenum: QC274012 S
Matrix : Soil
Batchnum : 96917
Inj : 02-DEC-2004 02:29

LCS: 49.97 g --> 5.0 ml = 0.1001 ml/g PDF

Analyte	Spike Conc	LCS	%Rec	Lim%Rec	Units	Flags
Diesel C10-C24	50.03	44.89	90	56-134	mg/Kg	
Diesel C12-C24	50.03	47.55	95	65-135	mg/Kg	
Hexacosane	5.003	4.809	96	65-134	mg/Kg	

SV. 12/02/04

/mw 12/3/04

Software Version: 4.1<2F12>
Date: 12/2/04 08:50 AM
Sample Name : lcs,qc274012sg,96917
Data File : G:\GC11\CHA\336A033.RAW Date: 12/2/04 02:29 AM
Sequence File: G:\GC11\336.SEQ Cycle: 33 Channel : A
Instrument : GC11 Rack/Vial: 0/33 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL.	FACT MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	6913117	309.00	309.0040	1.00	1.00	309.0040
JETA:10-16	6913117	356.55	356.5484	1.00	1.00	356.5484
JP8:10-16	6913117	363.90	363.8963	1.00	1.00	363.8963
JP5:10-16	6913117	280.79	280.7946	1.00	1.00	280.7946
DSL:10-22	11110994	446.28	446.2759	1.00	1.00	446.2759
GAIAFP:10-24	11288454	266.67	266.6709	1.00	1.00	266.6709
DSL:10-24	11288454	448.66	448.6631	1.00	1.00	448.6631
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	9870357	472.73	472.7346	1.00	1.00	472.7346
DSL:10-28	12641248	497.43	497.4349	1.00	1.00	497.4349
DSL:12-24	10047817	475.25	475.2463	1.00	1.00	475.2463
RRFPLH:16-24	4375336	633.22	633.2184	1.00	1.00	633.2184
CRUDE:10-40	12674168	12.67	12.6742	1.00	1.00	12.6742
TRIMSOL:12-36	11429401	464.51	464.5063	1.00	1.00	464.5063
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	11433532	1479.82	1479.8206	1.00	1.00	1479.8206
TRANSOIL:12-40	11433532	397.32	397.3178	1.00	1.00	397.3178
HYFL:12-40	11433532	489.51	489.5114	1.00	1.00	489.5114
MO:22-32	1554199	76.51	76.5090	1.00	1.00	76.5090
MO:20-36	2200488	87.16	87.1583	1.00	1.00	87.1583
MO:22-36	1559044	67.82	67.8217	1.00	1.00	67.8217
HYFL:24-36	1381585	96.67	96.6733	1.00	1.00	96.6733
TPHHF:24-36	1381585	1.38e-07	1.3816e-07	1.00	1.00	1.3816e-07
MO:24-36	1381585	76.02	76.0153	1.00	1.00	76.0153
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

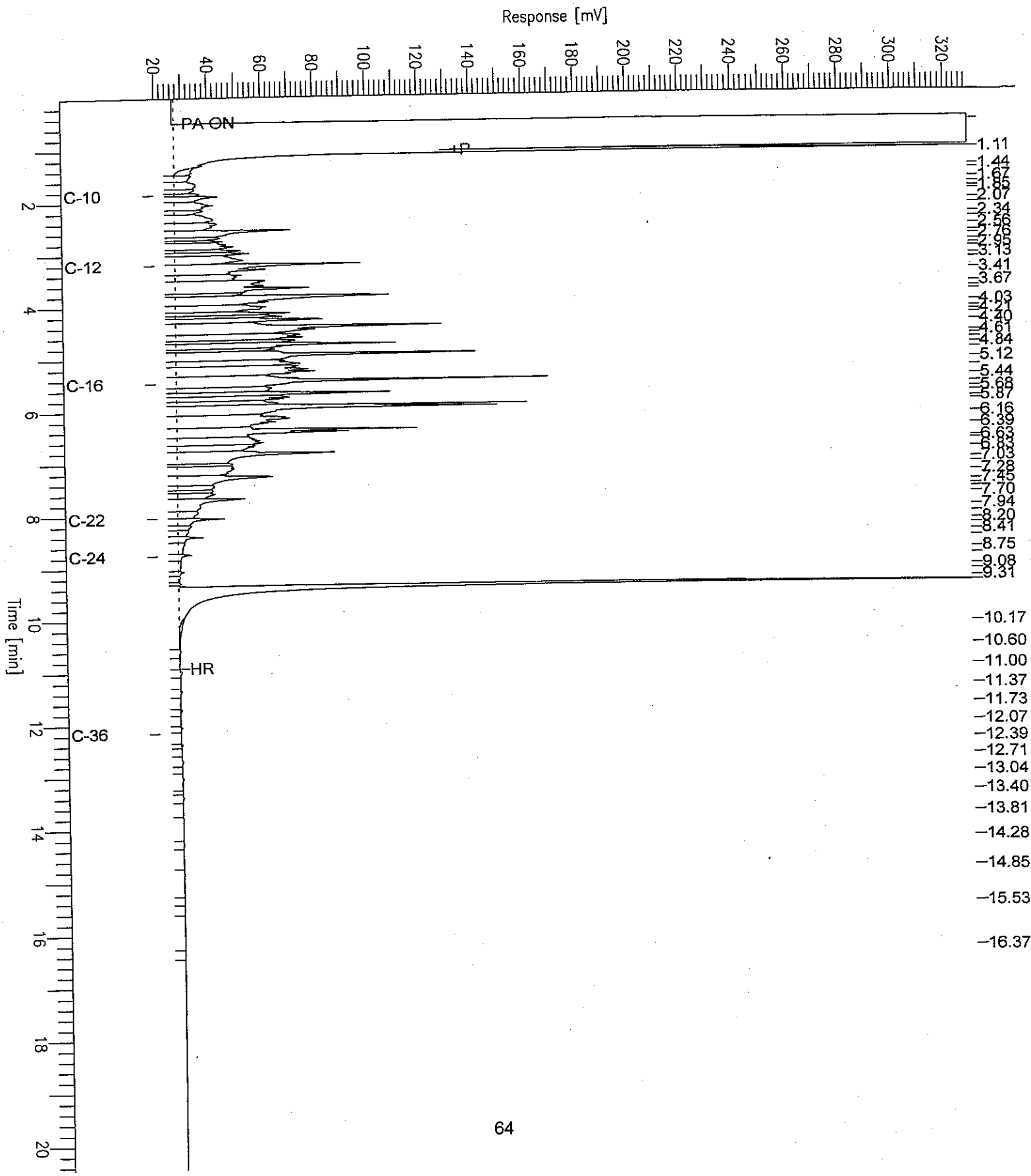
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A033P.TXO

Chromatogram

Sample Name : lcs,qc274012sg,96917
FileName : G:\GC11\CHA\336A033.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #: 96917 Page 1 of 1
Date : 12/2/04 08:50 AM
Time of Injection: 12/2/04 02:29 AM
Low Point : 19.58 mV High Point : 329.14 mV
Plot Scale: 309.6 mV



Software Version: 4.1<2F12>
Date: 12/2/04 02:49 AM
Sample Name : lcs,qc274012sg,96917
Data File : G:\GC11\CHA\336A033.RAW Date: 12/2/04 02:29 AM
Sequence File: G:\GC11\336.SEQ Cycle: 33 Channel : A
Instrument : GC11 Rack/Vial: 0/33 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1317922	48.06	48.0608			9.396	96.1216

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

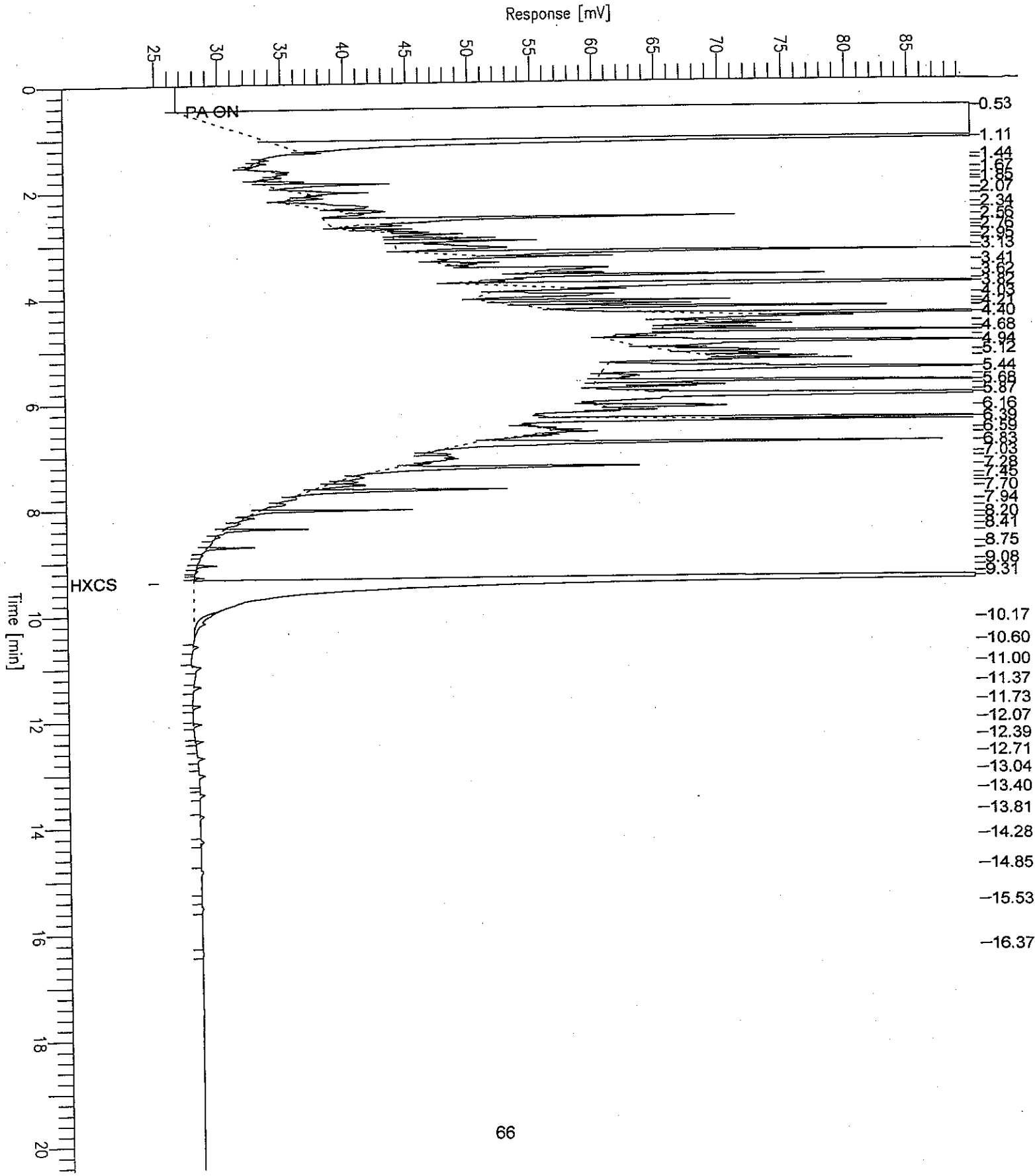
Report stored in ASCII file: G:\GC11\CHA\336A033.TX0

Chromatogram

Sample Name : lcs,qc274012sg,96917
FileName : G:\GC11\CHA\336A033.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 96917
Date : 12/2/04 02:49 AM
Time of Injection: 12/2/04 02:29 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid : GC11A	Instid : GC11A	Instid : GC13B
Seqnum : 114484417036	Seqnum : 114484417034	Seqnum : 144485974005
Filename : 336a036	Filename : 336a034	Filename : 337b005
IDF : 1.0	IDF : 1.0	IDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-003 S	Samplenum: QC274013 S	Samplenum: QC274014 S
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96917	Batchnum : 96917	Batchnum : 96917
Inj : 02-DEC-2004 03:56	Inj : 02-DEC-2004 02:58	Inj : 02-DEC-2004 13:43

MSS: 50.23 g --> 5.0 ml = 0.09954 ml/g PDF
MS: 50.21 g --> 5.0 ml = 0.09958 ml/g PDF
MSD: 49.89 g --> 5.0 ml = 0.1002 ml/g PDF

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
Diesel C10-C24	8.707	50.11	53.75	90	44.64	72	13-165	mg/Kg	19	49	u
Diesel C12-C24	10.28	50.11	57.25	94	47.65	75	65-135	mg/Kg	19	35	
Hexacosane		5.011	5.789	116	5.081	101	65-134	mg/Kg	--		u

12/03/04

12/13/04

u=use

Software Version: 4.1<2F12>
Date: 12/2/04 08:51 AM
Sample Name : ms,qc274013sg,96917
Data File : G:\GC11\CHA\336A034.RAW Date: 12/2/04 02:58 AM
Sequence File: G:\GC11\336.SEQ Cycle: 34 Channel : A
Instrument : GC11 Rack/Vial: 0/34 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	8172297	365.29	365.2871	1.00	1.00	365.2871
JETA:10-16	8172297	421.49	421.4914	1.00	1.00	421.4914
JP8:10-16	8172297	430.18	430.1777	1.00	1.00	430.1777
JP5:10-16	8172297	331.94	331.9395	1.00	1.00	331.9395
DSL:10-22	13299688	534.19	534.1853	1.00	1.00	534.1853
GAIAFP:10-24	13581620	320.84	320.8432	1.00	1.00	320.8432
DSL:10-24	13581620	539.81	539.8057	1.00	1.00	539.8057
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	11873172	568.66	568.6582	1.00	1.00	568.6582
DSL:10-28	15748665	619.71	619.7123	1.00	1.00	619.7123
DSL:12-24	12155104	574.92	574.9178	1.00	1.00	574.9178
RRFPLH:16-24	5409322	782.86	782.8616	1.00	1.00	782.8616
CRUDE:10-40	17969821	17.97	17.9698	1.00	1.00	17.9698
TRIMSOL:12-36	16353198	664.62	664.6161	1.00	1.00	664.6161
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	16543306	2141.17	2141.1690	1.00	1.00	2141.1690
TRANSOIL:12-40	16543306	574.88	574.8836	1.00	1.00	574.8836
HYFL:12-40	16543306	708.28	708.2796	1.00	1.00	708.2796
MO:22-32	3376869	166.23	166.2342	1.00	1.00	166.2342
MO:20-36	5048669	199.97	199.9707	1.00	1.00	199.9707
MO:22-36	4480026	194.89	194.8906	1.00	1.00	194.8906
HYFL:24-36	4198094	293.75	293.7523	1.00	1.00	293.7523
TPHHF:24-36	4198094	4.20e-07	4.1981e-07	1.00	1.00	4.1981e-07
MO:24-36	4198094	230.98	230.9808	1.00	1.00	230.9808
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A034P.TXO

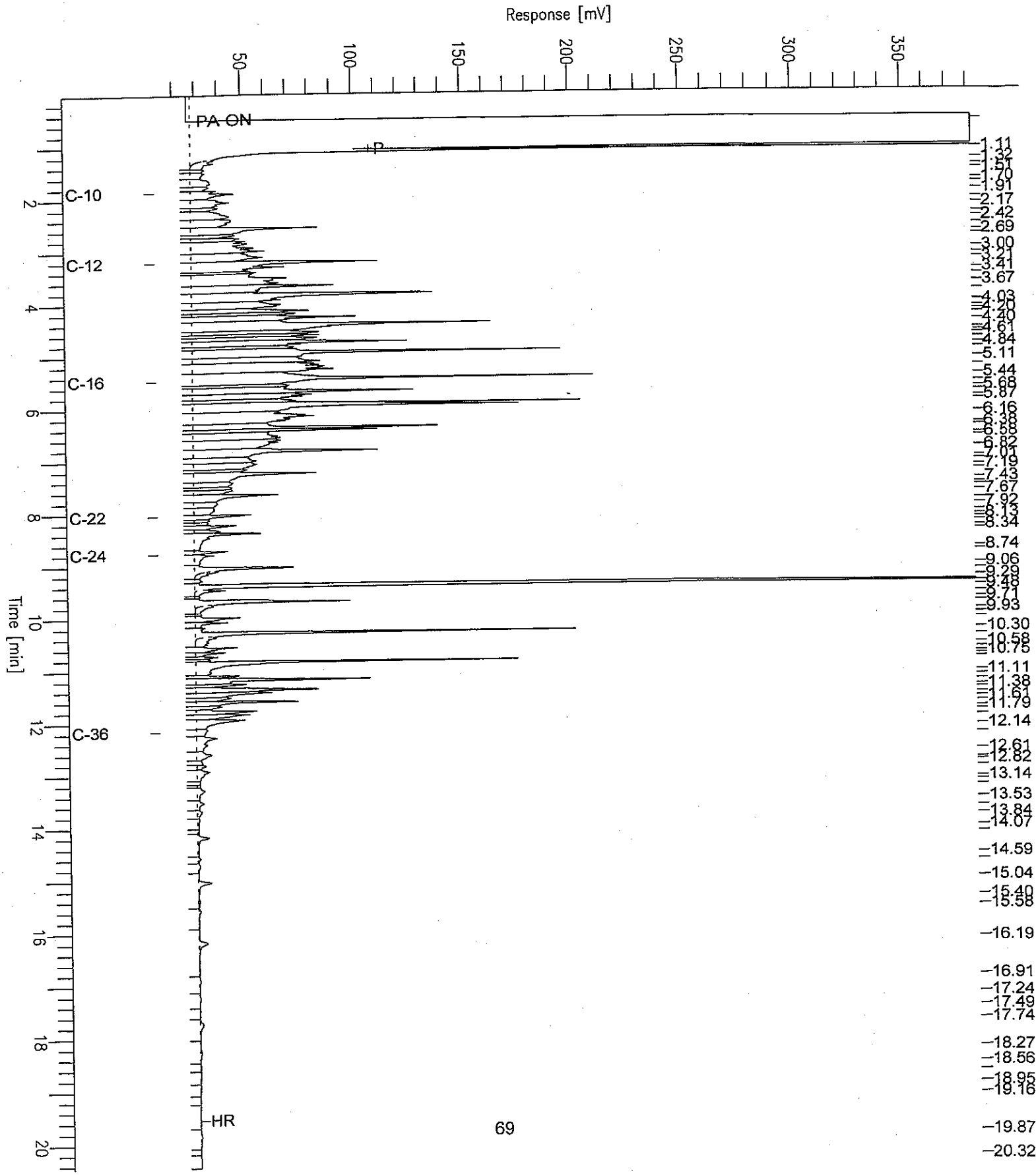
Chromatogram

Sample Name : ms,qc274013sg,96917
FileName : G:\GC11\CHA\336A034.RAW
Method : ATEH3β5S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 12 mV

Sample #: 96917
Date : 12/2/04 08:51 AM
Time of Injection: 12/2/04 02:58 AM
Low Point : 11.92 mV
Plot Scale: 370.1 mV

High Point : 382.04 mV



Software Version: 4.1<2F12>
Date: 12/2/04 03:19 AM
Sample Name : ms,qc274013sg,96917
Data File : G:\GC11\CHA\336A034.RAW Date: 12/2/04 02:58 AM
Sequence File: G:\GC11\336.SEQ Cycle: 34 Channel : A
Instrument : GC11 Rack/Vial: 0/34 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1594024	58.13	58.1295			9.410	116.2589

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

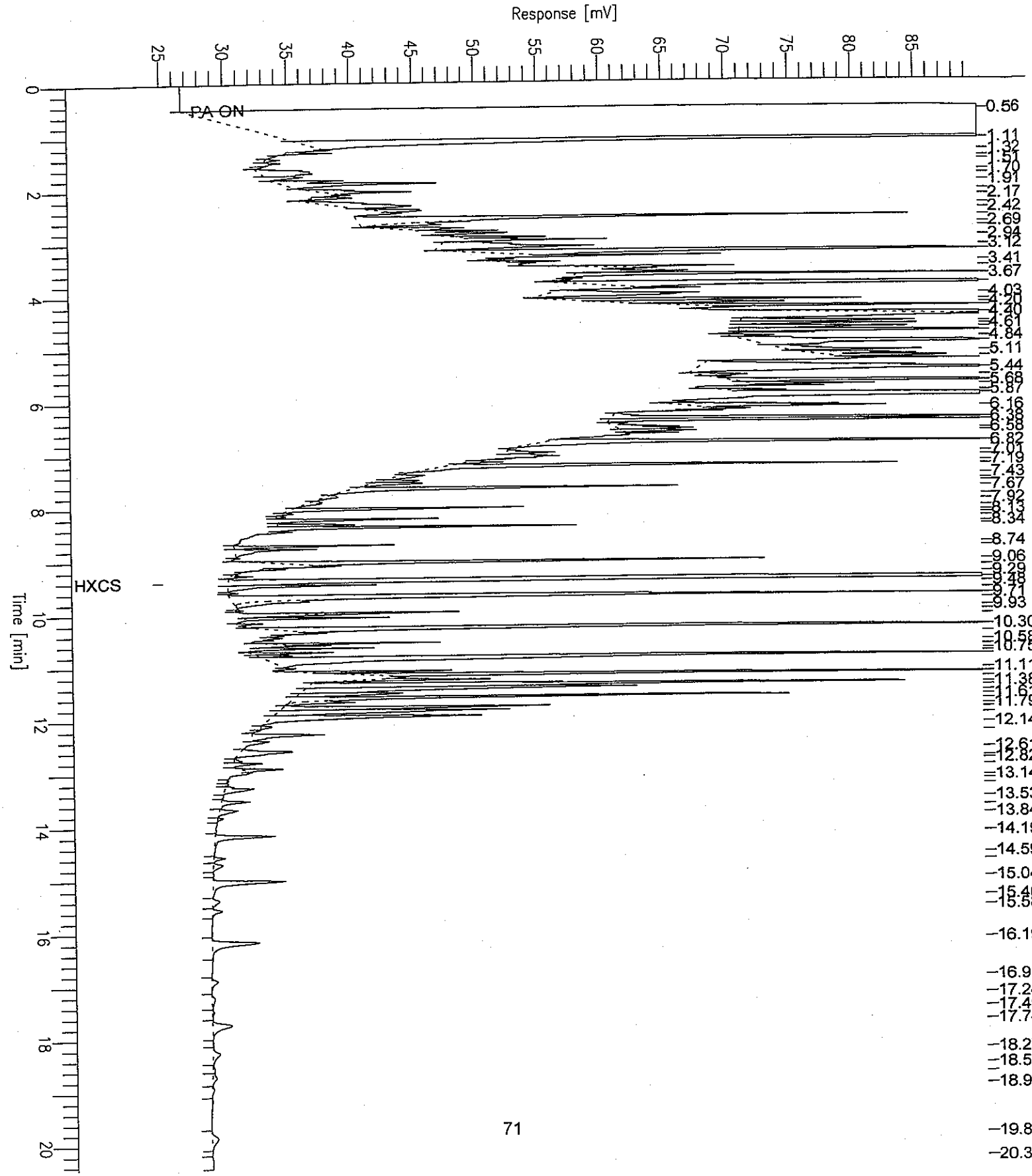
Report stored in ASCII file: G:\GC11\CHA\336A034.TX0

Chromatogram

Sample Name : ms,qc274013sg,96917
FileName : G:\GC11\CHA\336A034.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 96917
Date : 12/2/04 03:19 AM
Time of Injection: 12/2/04 02:58 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/2/04 02:07 PM
Sample Name : msd,qc274014sg,96917
Data File : G:\GC13\CHB\337B005.RAW Date: 12/2/04 01:43 PM
Sequence File: G:\GC13\337.SEQ Cycle: 5 Channel : B
Instrument : GC13 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.284		0	0.00	1.0000	1.00	0.0000
C-12	3.481		0	0.00	1.0000	1.00	0.0000
JETA:10-16	3.973		5818775	324.41	1.0000	1.00	324.4084
JP5:10-16	3.973		5818775	294.82	1.0000	1.00	294.8179
JP8:10-16	3.973		5818775	365.36	1.0000	1.00	365.3632
KER:10-16	3.973		5818775	317.88	1.0000	1.00	317.8765
DSL:10-20	4.847		9190656	429.56	1.0000	1.00	429.5620
DSL:10-22	5.227		9612942	438.24	1.0000	1.00	438.2414
DSL:10-24	5.576		9846751	445.43	1.0000	1.00	445.4260
GAIAFP:10-24	5.576		9846751	661.19	1.0000	1.00	661.1873
C-16	5.662		0	0.00	1.0000	1.00	0.0000
DSL:12-22	5.825		8642608	467.17	1.0000	1.00	467.1677
DSL:12-24	6.175		8876417	475.41	1.0000	1.00	475.4091
DSL:10-28	6.201		11608860	524.12	1.0000	1.00	524.1196
DSL:12-28	6.799		10638525	568.48	1.0000	1.00	568.4796
DSL:10-36	7.211		13475568	598.00	1.0000	1.00	597.9961
C-20	7.410		0	0.00	1.0000	1.00	0.0000
CRUDE:10-40	7.725		13697479	1.37e-05	1.0000	1.00	0.0000
TRIMSOL:12-36	7.809		12505234	1.25e-06	1.0000	1.00	1.2505e-06
C-22	8.170		0	0.00	1.0000	1.00	0.0000
HYFL:12-40	8.324		12727145	556.25	1.0000	1.00	556.2535
BUNKC:12-40	8.324		12727145	1415.47	1.0000	1.00	1415.4651
TROIL:12-40	8.324		12727145	464.58	1.0000	1.00	464.5835
C-24	8.868		0	0.00	1.0000	1.00	0.0000
MO:22-32	9.684		2974114	156.19	1.0000	1.00	156.1906
MO:20-36	9.774		4284912	179.60	1.0000	1.00	179.6030
C-28	10.117		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.154		3862626	183.00	1.0000	1.00	183.0031
HYFL:24-36	10.503		3628817	271.53	1.0000	1.00	271.5311
MO:24-36	10.503		3628817	214.30	1.0000	1.00	214.2965
TPHHF:24-36	10.503		3628817	3.63e-06	1.0000	1.00	3.6288e-06
C-32	11.197		0	0.00	1.0000	1.00	0.0000
BUNKC:12-50	11.371		13001659	13001658.92	1.0000	1.00	1.3002e+07
C-36	12.138		0	0.00	1.0000	1.00	0.0000
C-40	13.167		0	0.00	1.0000	1.00	0.0000
				13011009.90			

CURTIS & TOMPKINS,LTD. BERKELEY

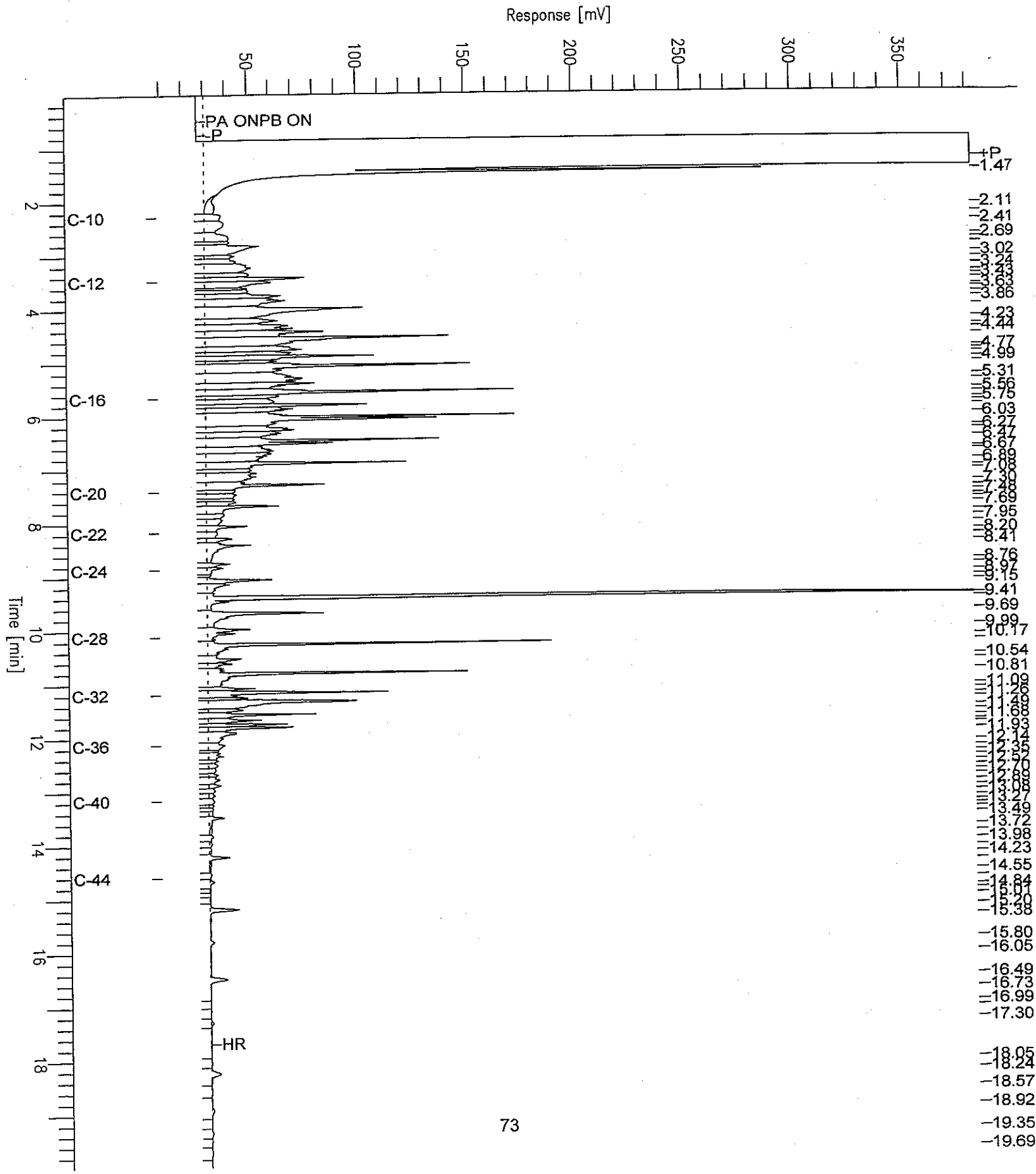
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B005P.TXO

Chromatogram

Sample Name : msd,qc274014sg,96917
FileName : G:\GC13\CHB\337B005.RAW
Method : BTEH337S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 9 mV

Sample #: 96917
Date : 12/2/04 02:07 PM
Time of Injection: 12/2/04 01:43 PM
Low Point : 8.60 mV High Point : 382.27 mV
Plot Scale: 373.7 mV



Software Version: 4.1<2F12>
Date: 12/2/04 02:03 PM
Sample Name : msd,qc274014sg,96917
Data File : G:\GC13\CHB\337B005.RAW Date: 12/2/04 01:43 PM
Sequence File: G:\GC13\337.SEQ Cycle: 5 Channel : B
Instrument : GC13 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	1278536	50.70	50.6985			9.410	101.3970
		50.70					

CURTIS & TOMPKINS,LTD. BERKELEY

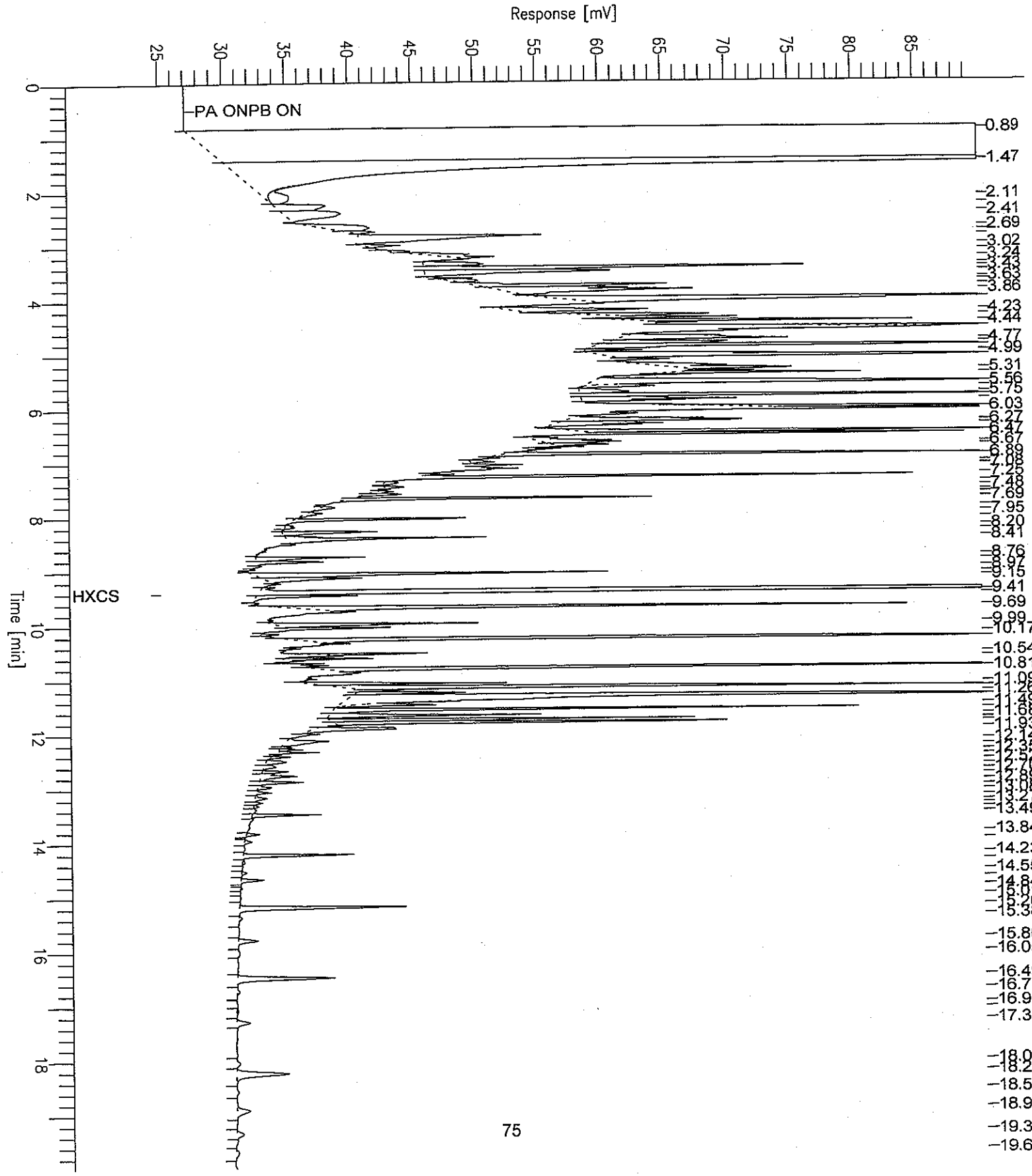
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B005.TX0

Chromatogram

Sample Name : msd,qc274014sg,96917
FileName : G:\GC13\CHB\337B005.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 96917
Date : 12/2/04 02:03 PM
Time of Injection: 12/2/04 01:43 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8015B

Instid : GC11A
Seqnum : 114484417036
Filename : 336a036
IDF : 1.0

Samplenum: 176248-003 S
Matrix : Soil
Batchnum : 96917

Cident : BB3EX153[0.5]
Acctnum : TREADWELL (SES)
Injected : 02-DEC-2004 03:56
Units : mg/Kg

Prep: 50.23 g --> 5.0 ml = 0.09954 ml/g PDF

Analyte	Calibration	Result	RL	B=334a096	Flags
Diesel C12-C24.....	114442646001	10	1.0		
Motor Oil C24-C36.....	114442646002	24	5.0		

Analyte	Calibration	Spike Conc	Result	%Rec	Lim%Rec	Flags
Hexacosane	114481514002	4.977	3.218	65	65-135	

Analyst: LN. Date: 12/02/04 Reviewer: [illegible] Date: 12/6

Page 1 of 1

Software Version: 4.1<2F12>
Date: 12/2/04 08:52 AM
Sample Name : 176248-003sg,96917
Data File : G:\GC11\CHA\336A036.RAW Date: 12/2/04 03:56 AM
Sequence File: G:\GC11\336.SEQ Cycle: 36 Channel : A
Instrument : GC11 Rack/Vial: 0/36 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	251177	11.23	11.2272	1.00	1.00	11.2272
JETA:10-16	251177	12.95	12.9546	1.00	1.00	12.9546
JP8:10-16	251177	13.22	13.2216	1.00	1.00	13.2216
JP5:10-16	251177	10.20	10.2022	1.00	1.00	10.2022
DSL:10-22	1307179	52.50	52.5032	1.00	1.00	52.5032
GAIAFP:10-24	2200774	51.99	51.9896	1.00	1.00	51.9896
DSL:10-24	2200774	87.47	87.4704	1.00	1.00	87.4704
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1289724	61.77	61.7705	1.00	1.00	61.7705
DSL:10-28	5184602	204.01	204.0148	1.00	1.00	204.0148
DSL:12-24	2183318	103.27	103.2676	1.00	1.00	103.2676
RRFPLH:16-24	1949597	282.15	282.1544	1.00	1.00	282.1544
CRUDE:10-40	7880521	7.88	7.8805	1.00	1.00	7.8805
TRIMSOL:12-36	7514965	305.42	305.4183	1.00	1.00	305.4183
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	7863066	1017.70	1017.7019	1.00	1.00	1017.7019
TRANSOIL:12-40	7863066	273.24	273.2433	1.00	1.00	273.2433
HYFL:12-40	7863066	336.65	336.6467	1.00	1.00	336.6467
MO:22-32	5417038	266.67	266.6662	1.00	1.00	266.6662
MO:20-36	6873490	272.25	272.2493	1.00	1.00	272.2493
MO:22-36	6225241	270.81	270.8111	1.00	1.00	270.8111
HYFL:24-36	5331647	373.07	373.0701	1.00	1.00	373.0701
TPHHF:24-36	5331647	5.33e-07	5.3316e-07	1.00	1.00	5.3316e-07
MO:24-36	5331647	293.35	293.3493	1.00	1.00	293.3493
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A036P.TXO

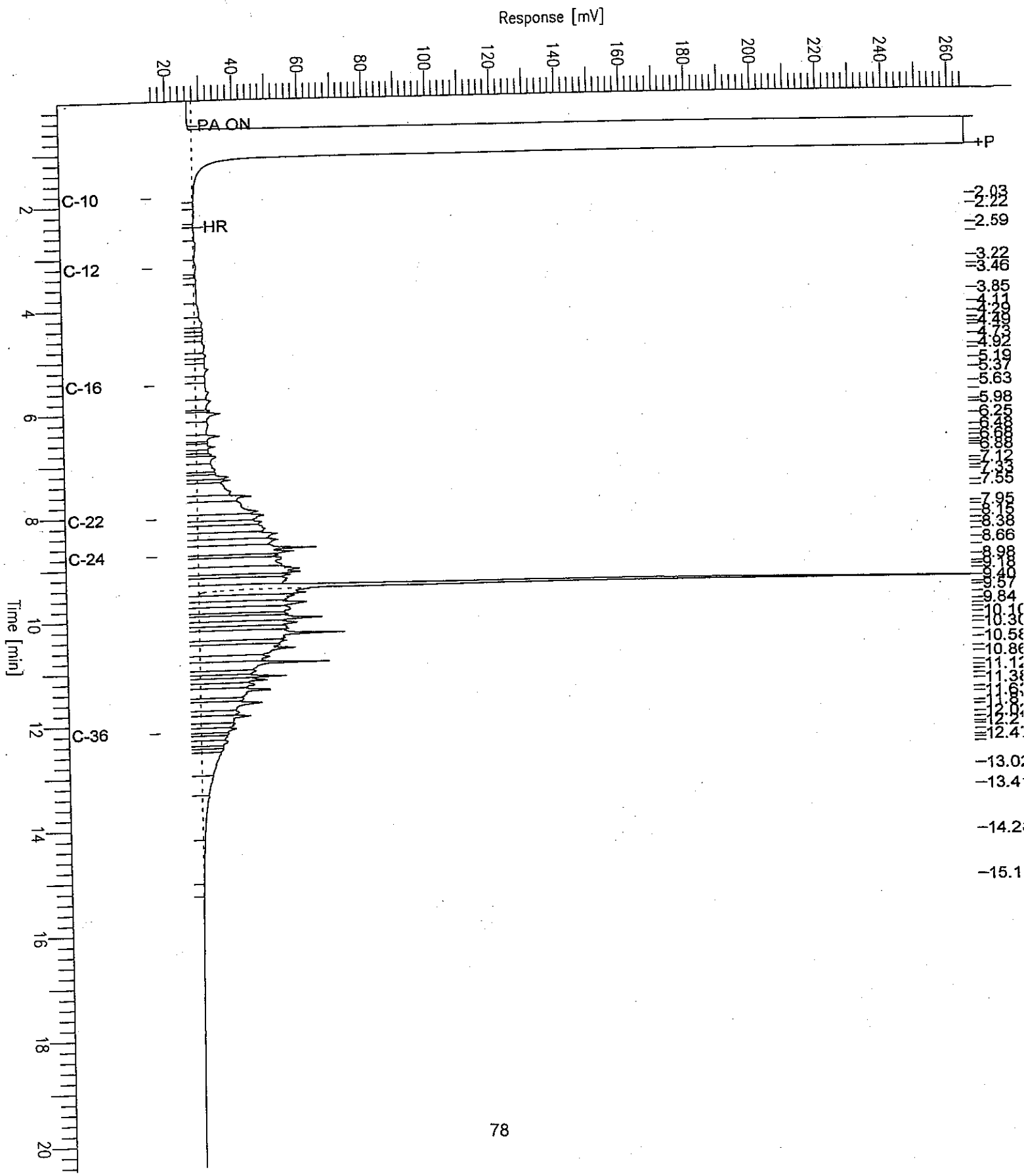
Chromatogram

Sample Name : 176248-003sg,96917
FileName : G:\GC11\CHA\336A036.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 16 mV

Sample #: 96917
Date : 12/2/04 08:52 AM
Time of Injection: 12/2/04 03:56 AM
Low Point : 15.62 mV
Plot Scale: 249.3 mV

High Point : 264.90 mV



Software Version: 4.1<2F12>
Date: 12/2/04 04:17 AM
Sample Name : 176248-003sg,96917
Data File : G:\GC11\CHA\336A036.RAW Date: 12/2/04 03:56 AM
Sequence File: G:\GC11\336.SEQ Cycle: 36 Channel : A
Instrument : GC11 Rack/Vial: 0/36 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	886615	32.33	32.3323			9.397	64.6646

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

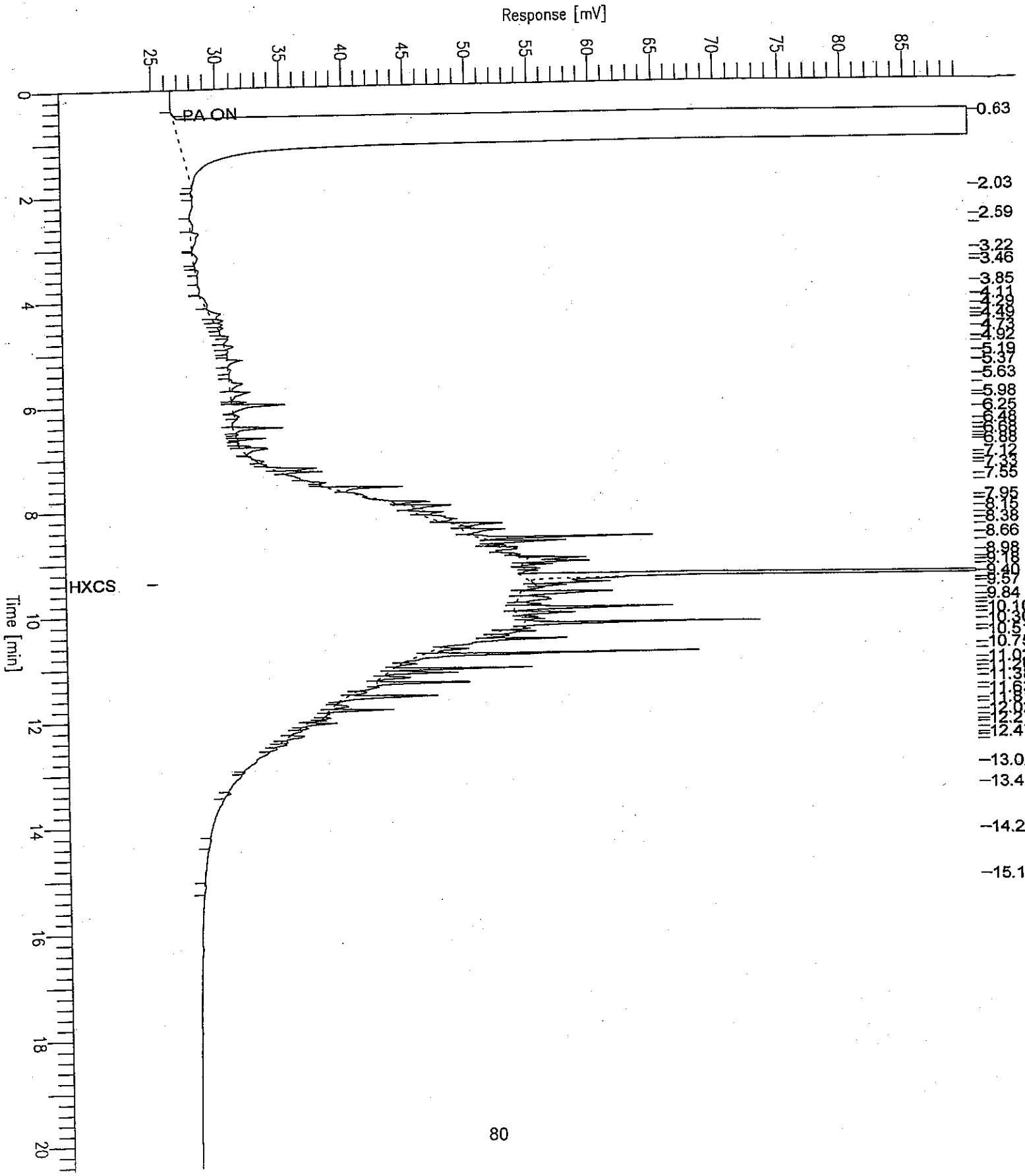
Report stored in ASCII file: G:\GC11\CHA\336A036.TXO

Chromatogram

Sample Name : 176248-003sg,96917
FileName : G:\GC11\CHA\336A036.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 96917
Date : 12/2/04 04:17 AM
Time of Injection: 12/2/04 03:56 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



Curtis & Tompkins, Ltd.

Initial Calibration Data

MJB 11/29/04

Software Version: 4.1<2F12>
Sample Name : c10-16
Sample Number:
Operator : gc

Time : 11/29/04 04:01 PM
Study : s

mmp 11/30/04

Instrument : GC11
AutoSampler : HP7673A
Rack/Vial : 0/9

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 11/29/04 03:00 PM
Delay Time : 0.00 min.
End Time : 20.46 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC11\CHA\334A009.RAW
Result File : G:\GC11\CHA\334A009P.RST
Inst Method : G:\GC11\CHASHORT from G:\GC11\CHA\334A009P.RST
Proc Method : G:\GC11\ATEH309S.MTH
Calib Method : G:\GC11\ATEH309S.MTH
Sequence File : G:\GC11\334.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
1	1.770	1473.45	611.31	0.03	0.03	BB	2.4103
-10 2	1.865	787196.00	176633.32	13.92	13.92	BB	4.4567
3	3.108	4239.40	1725.68	0.07	0.07	BV	2.4567
4	3.203	1253229.63	624100.88	22.16	22.16	VB	2.0081
5	4.091	659.79	316.14	0.01	0.01	BB	2.0870
6	4.237	813.36	399.12	0.01	0.01	BV	2.0379
7	4.293	6388.15	3323.85	0.11	0.11	VB	1.9219
8	4.402	1582513.41	623902.06	27.98	27.98	BB	2.5365
9	5.121	453.51	275.68	0.01	0.01	BB	1.6451
10	5.265	3347.87	1279.29	0.06	0.06	BV	2.6170
11	5.337	8557.23	4834.28	0.15	0.15	VV	1.7701
12	5.458	1981405.17	677487.77	35.03	35.03	VE	2.9246
13	6.851	4548.58	273.32	0.08	0.08	EB	16.6418
14	7.508	294.22	168.31	0.01	0.01	BB	1.7481
15	8.117	204.31	126.38	0.00	0.00	BB	1.6166
16	8.669	223.18	140.41	0.00	0.00	BB	1.5896
17	9.184	267.56	171.35	0.00	0.00	BB	1.5615
18	9.667	382.69	229.37	0.01	0.01	BV	1.6685

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
19	9.784	2037.24	215.20	0.04	0.04	VB	9.4669
20	10.120	517.02	367.15	0.01	0.01	BB	1.4082
21	10.435	444.68	74.17	0.01	0.01	BV	5.9955
22	10.545	1014.55	635.65	0.02	0.02	VB	1.5961
23	10.944	1544.67	894.82	0.03	0.03	BB	1.7262
24	11.320	2143.38	1155.68	0.04	0.04	BB	1.8546
25	11.680	1840.93	1146.76	0.03	0.03	BB	1.6053
26	12.023	1650.78	951.72	0.03	0.03	BB	1.7345
27	12.349	1712.89	936.79	0.03	0.03	BV	1.8285
28	12.666	3234.23	736.92	0.06	0.06	VV	4.3888
29	12.996	2996.63	395.87	0.05	0.05	VB	7.5697
30	13.353	342.23	201.95	0.01	0.01	BB	1.6946
31	13.757	304.04	139.59	0.01	0.01	BB	2.1780
32	14.224	218.72	75.53	0.00	0.00	BB	2.8957
		5656199.50	2.12e+06	100.00	100.00		

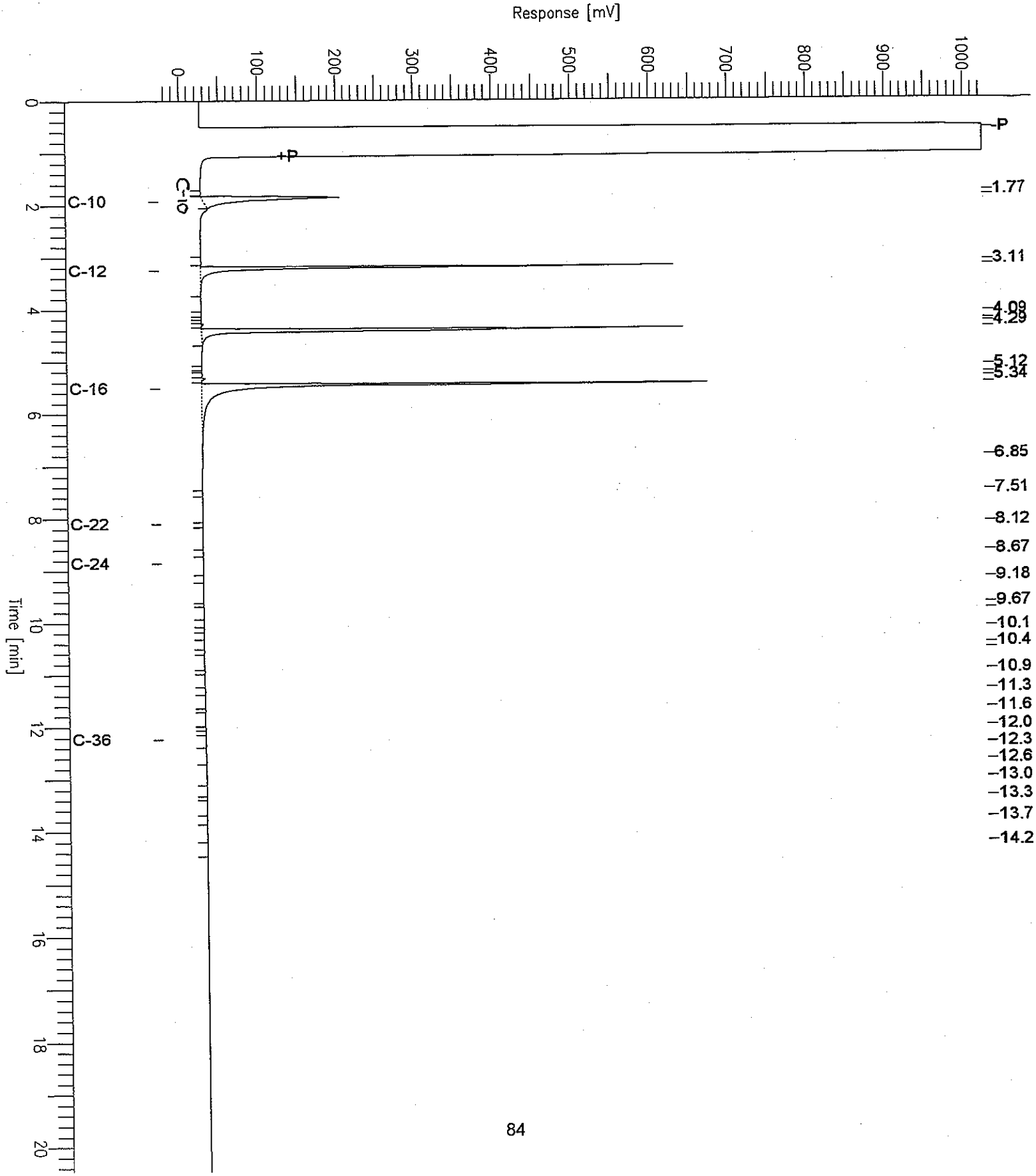
Missing Component Report

Component	Expected Retention (Calibration File)
C-10	1.933
C-12	3.264
C-16	5.523
C-22	8.114
C-36	12.238

Chromatogram

Sample Name : c10-16
FileName : G:\GC11\CHA\334A009.RAW
Method : ATEH309S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #:
Date : 11/29/04 04:02 PM
Time of Injection: 11/29/04 03:00 PM
Low Point : -26.93 mV High Point : 1024.00 mV
Plot Scale: 1050.9 mV



MJB 11/29/04

Software Version: 4.1<2F12>
Sample Name : c12-60
Sample Number:
Operator : gc

Time : 11/29/04 04:02 PM
Study : s

Instrument : GC11
AutoSampler : HP7673A
Rack/Vial : 0/10

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 11/29/04 03:29 PM
Delay Time : 0.00 min.
End Time : 20.46 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC11\CHA\334A010.RAW
Result File : G:\GC11\CHA\334A010P.RST
Inst Method : G:\GC11\CHASHORT from G:\GC11\CHA\334A010P.RST
Proc Method : G:\GC11\ATEH309S.MTH
Calib Method : G:\GC11\ATEH309S.MTH
Sequence File : G:\GC11\334.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

	Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
	1	3.015	2550.09	1392.54	0.01	0.01	BV	1.8312
	2	3.070	12275.51	5921.54	0.04	0.04	VB	2.0730
-12	3	3.207	2253459.81	1.02e+06	6.69	6.69	BB	2.2197
	4	3.985	613.43	119.40	0.00	0.00	BB	5.1375
	5	4.198	3260.85	1228.54	0.01	0.01	BV	2.6542
	6	4.268	14273.21	6642.64	0.04	0.04	VV	2.1487
-14	7	4.409	2365534.92	1.03e+06	7.02	7.02	VE	2.2897
	8	5.011	2753.81	272.26	0.01	0.01	EV	10.1145
	9	5.106	484.22	195.08	0.00	0.00	VB	2.4821
	10	5.255	964.59	433.88	0.00	0.00	BV	2.2232
	11	5.325	7953.61	4471.58	0.02	0.02	VV	1.7787
-16	12	5.467	2370743.67	989443.96	7.04	7.04	VB	2.3960
	13	6.161	8570.71	2396.32	0.03	0.03	BV	3.5766
	14	6.267	15756.29	9216.70	0.05	0.05	VV	1.7095
-18	15	6.410	2484250.11	1.01e+06	7.38	7.38	VB	2.4572
	16	6.775	2018.56	591.42	0.01	0.01	BV	3.4131
	17	6.850	903.34	466.87	0.00	0.00	VB	1.9349
	18	6.958	738.23	252.67	0.00	0.00	BV	2.9217

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
19	7.024	1898.74	864.48	0.01	0.01	VV	2.1964
20	7.136	5580.56	1277.03	0.02	0.02	VV	4.3699
20 21	7.266	2575415.40	993117.47	7.65	7.65	VB	2.5933
22	7.656	1195.62	540.87	0.00	0.00	BB	2.2106
23	7.733	496.76	329.61	0.00	0.00	BV	1.5071
24	7.806	2311.09	764.94	0.01	0.01	VV	3.0213
25	7.851	2223.23	875.43	0.01	0.01	VV	2.5396
26	7.921	3457.22	1376.46	0.01	0.01	VV	2.5117
22 27	8.049	2674010.95	1.03e+06	7.94	7.94	VB	2.5838
28	8.306	180.78	209.43	5e-04	5.37e-04	BB	0.8632
29	8.396	1748.15	932.98	0.01	0.01	BB	1.8737
30	8.522	1083.39	405.70	0.00	0.00	BB	2.6704
31	8.641	4332.79	2757.13	0.01	0.01	BV	1.5715
24 32	8.769	2719159.84	1.03e+06	8.07	8.07	VB	2.6520
33	9.079	3808.38	1538.95	0.01	0.01	BB	2.4747
34	9.227	1500.36	423.23	0.00	0.00	BB	3.5450
26 35	9.436	2784208.74	1.02e+06	8.27	8.27	BB	2.7400
36	9.714	7661.27	3891.01	0.02	0.02	BB	1.9690
37	9.934	4841.61	1793.54	0.01	0.01	BV	2.6995
28 38	10.059	2803608.65	960418.09	8.32	8.32	VB	2.9192
39	10.306	8067.20	5153.85	0.02	0.02	BB	1.5653
40	10.425	2355.21	1111.94	0.01	0.01	BB	2.1181
41	10.518	8500.90	3645.09	0.03	0.03	BV	2.3322
30 42	10.636	2794282.38	1.03e+06	8.30	8.30	VB	2.7224
43	10.758	320.49	364.41	1e-03	9.52e-04	BB	0.8795
44	10.809	2830.42	1454.12	0.01	0.01	BV	1.9465
45	10.866	9373.82	7288.34	0.03	0.03	VB	1.2861
46	11.014	1560.14	938.49	0.00	0.00	BV	1.6624
47	11.068	2303.65	1472.01	0.01	0.01	VV	1.5650
32 48	11.181	2705687.30	1.01e+06	8.03	8.03	VB	2.6809
49	11.398	11304.36	7463.19	0.03	0.03	BB	1.5147
50	11.545	7815.52	5334.79	0.02	0.02	BB	1.4650
51	11.641	110662.43	84419.40	0.33	0.33	BV	1.3109
52	11.741	1594.44	1110.93	0.00	0.00	VB	1.4352
53	11.806	1969.23	1049.25	0.01	0.01	BB	1.8768
54	11.879	7199.60	5764.64	0.02	0.02	BB	1.2489
55	12.054	13663.69	5757.43	0.04	0.04	BV	2.3732
36 56	12.167	2445546.95	913118.93	7.26	7.26	VB	2.6782
57	12.361	3214.97	1237.44	0.01	0.01	BB	2.5981
58	12.481	1968.47	1305.22	0.01	0.01	BV	1.5081
59	12.575	41570.91	16429.85	0.12	0.12	VV	2.5302
60	12.800	14462.58	2851.93	0.04	0.04	VV	5.0711
61	12.896	31779.21	9993.97	0.09	0.09	VV	3.1798
40 62	13.091	1500430.75	514856.89	4.45	4.45	VV	2.9143
63	13.159	32332.96	19893.00	0.10	0.10	VV	1.6253
64	13.233	12524.47	4270.41	0.04	0.04	VV	2.9328
65	13.328	3074.94	1507.83	0.01	0.01	VE	2.0393
66	13.396	472.13	275.96	0.00	0.00	EV	1.7109
67	13.447	1034.93	479.43	0.00	0.00	VV	2.1587
68	13.508	304.80	175.51	9e-04	9.05e-04	VB	1.7367

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Area [%]	Norm. Area [%]	BL	Area/Height [sec]
69	13.613	8675.59	4208.17	0.03	0.03	BV	2.0616
70	13.674	7358.28	2439.12	0.02	0.02	VV	3.0168
71	13.781	819.88	474.30	0.00	0.00	VB	1.7286
72	13.932	4629.27	1931.99	0.01	0.01	BV	2.3961
73	13.990	1077.94	607.54	0.00	0.00	VB	1.7743
74	14.095	1323.73	677.00	0.00	0.00	BV	1.9553
75	14.195	8625.96	1970.13	0.03	0.03	VV	4.3784
4476	14.343	500044.95	169520.74	1.48	1.48	VB	2.9498
77	14.720	4523.07	1113.08	0.01	0.01	BB	4.0636
78	15.264	3860.28	944.07	0.01	0.01	BB	4.0890
79	15.797	1799.30	430.30	0.01	0.01	BV	4.1815
80	16.083	1625.65	340.95	0.00	0.00	VB	4.7680
81	16.439	7165.48	1892.49	0.02	0.02	BB	3.7863
82	17.181	4277.95	875.83	0.01	0.01	BB	4.8844
83	17.835	238.35	52.95	7e-04	7.08e-04	BV	4.5011
84	18.123	198680.95	31703.62	0.59	0.59	VB	6.2668
85	19.195	1950.29	243.16	0.01	0.01	BB	8.0207
		33680714.27	1.30e+07	100.00	100.00		

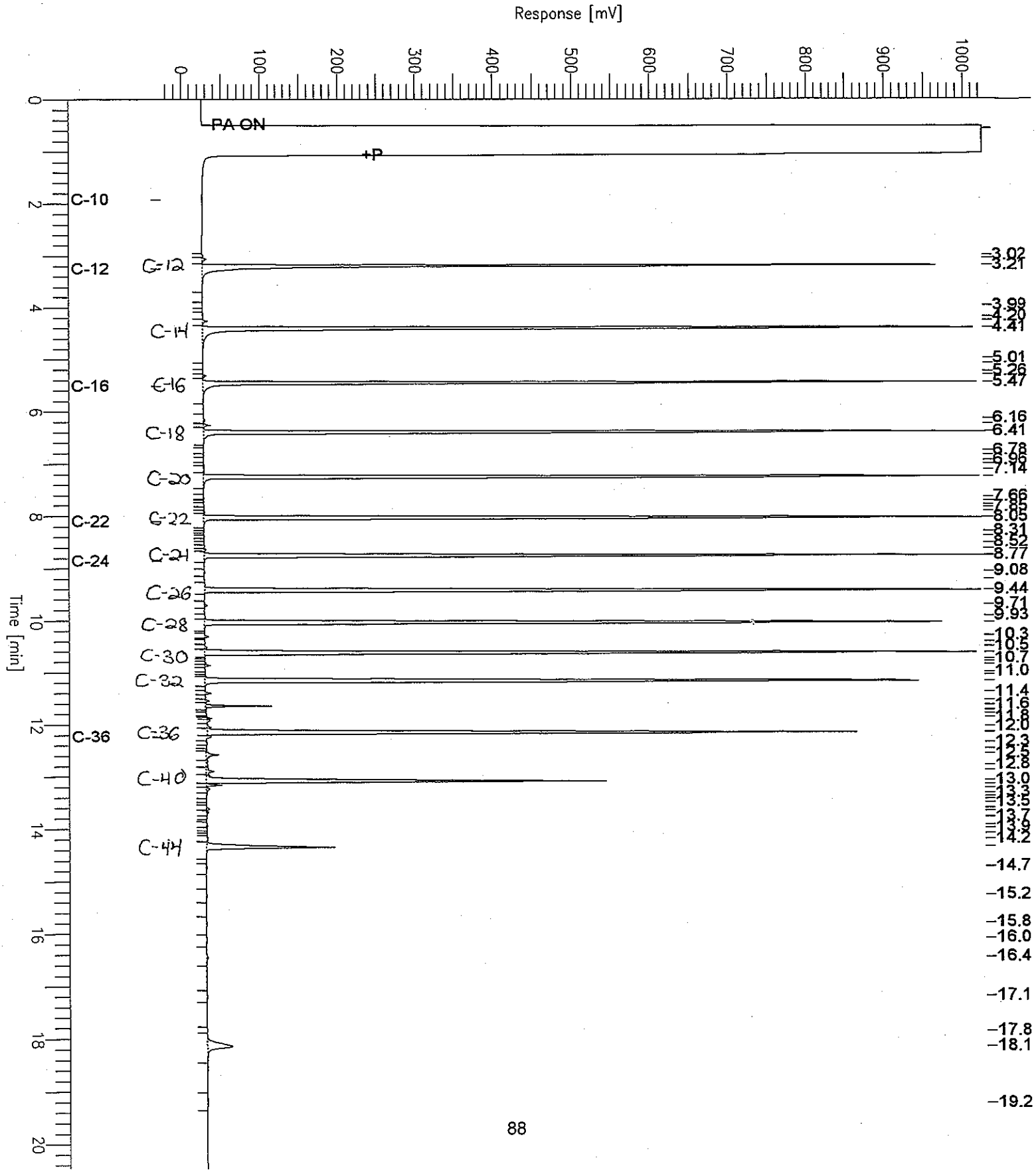
Missing Component Report

Component	Expected Retention (Calibration File)
C-10	1.933
C-12	3.264
C-16	5.523
C-22	8.114
C-36	12.238

Chromatogram

Sample Name : c12-60
FileName : G:\GC11\CHA\334A010.RAW
Method : ATEH309S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #:
Date : 11/29/04 04:02 PM
Time of Injection: 11/29/04 03:29 PM
Low Point : -26.91 mV High Point : 1024.00 mV
Plot Scale: 1050.9 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: 11/3/04
Calnum: 114442646001 Name: Diesel Type: (normal) Date: 02-NOV-2004 13:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a005	114442646005	dsl10	02-NOV-2004 13:24	04WS1748
2	307a006	114442646006	dsl100	02-NOV-2004 13:53	04WS1747
3	307a007	114442646007	dsl250	02-NOV-2004 14:22	04WS1746
4	307a008	114442646008	dsl500	02-NOV-2004 14:52	04WS1745
5	307a009	114442646009	dsl1000	02-NOV-2004 15:21	04WS1744
6	307a010	114442646010	dsl2500	02-NOV-2004 15:50	04WS1743
7	307a011	114442646011	dsl5000	02-NOV-2004 16:20	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	19432	24746	25496	25189	26377	26708	26332	AVRG	R		4.017E-5		mg/L	24897	10	0.995	20	
Diesel C10-C24	19891	25167	25653	25357	26646	26879	26529	AVRG	R		3.975E-5		mg/L	25160	10	0.995	20	
Diesel C10-C28	20968	25360	25791	25483	26716	26977	26595	AVRG	R		3.935E-5		mg/L	25413	8	0.995	20	
Diesel C12-C22	15244	20999	21830	20874	21864	22878	22466	AVRG	R		4.789E-5		mg/L	20879	12	0.995	20	
Diesel C12-C24	15703	21420	21986	21042	22133	23049	22662	AVRG	R		4.730E-5		mg/L	21142	12	0.995	20	
Diesel C12-C36	32008	22533	22299	21191	22221	23176	22737	AVRG	R		4.213E-5		mg/L	23738	16	0.995	20	

11/03/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 11/3/04 09:55 AM
Sample Name : ical,04ws1748,dsl10
Data File : G:\GC11\CHA\307A005.RAW Date: 11/2/04 01:24 PM
Sequence File: G:\GC11\307.SEQ Cycle: 5 Channel : A
Instrument : GC11 Rack/Vial: 0/5 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	83656	2.50	2.5016	1.00	1.00	2.5016
JP5:10-16	83656	4.01	4.0096	1.00	1.00	4.0096
JETA:10-16	83656	4.31	4.3146	1.00	1.00	4.3146
JP8:10-16	83656	4.40	4.4035	1.00	1.00	4.4035
DSL:10-22	194321	10.56	10.5624	1.00	1.00	10.5624
GAIAFP:10-24	198911	4.70	4.6989	1.00	1.00	4.6989
DSL:10-24	198911	10.72	10.7202	1.00	1.00	10.7202
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	152440	10.26	10.2614	1.00	1.00	10.2614
DSL:10-28	209679	11.25	11.2455	1.00	1.00	11.2455
DSL:12-24	157030	10.46	10.4597	1.00	1.00	10.4597
RRFPLH:16-24	115255	16.68	16.6802	1.00	1.00	16.6802
CRUDE:10-40	452801	0.45	0.4528	1.00	1.00	0.4528
TRIMSOL:12-36	320075	13.01	13.0083	1.00	1.00	13.0083
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	410920	53.18	53.1846	1.00	1.00	53.1846
TRANSOIL:12-40	410920	14.28	14.2796	1.00	1.00	14.2796
HYFL:12-40	410920	17.59	17.5930	1.00	1.00	17.5930
MO:22-32	51023	3.28	3.2762	1.00	1.00	3.2762
MO:20-36	177448	9.24	9.2435	1.00	1.00	9.2435
MO:22-36	167635	9.66	9.6578	1.00	1.00	9.6578
HYFL:24-36	163045	11.41	11.4087	1.00	1.00	11.4087
TPHHF:24-36	163045	1.63e-08	1.6304e-08	1.00	1.00	1.6304e-08
MO:24-36	163045	11.84	11.8372	1.00	1.00	11.8372
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

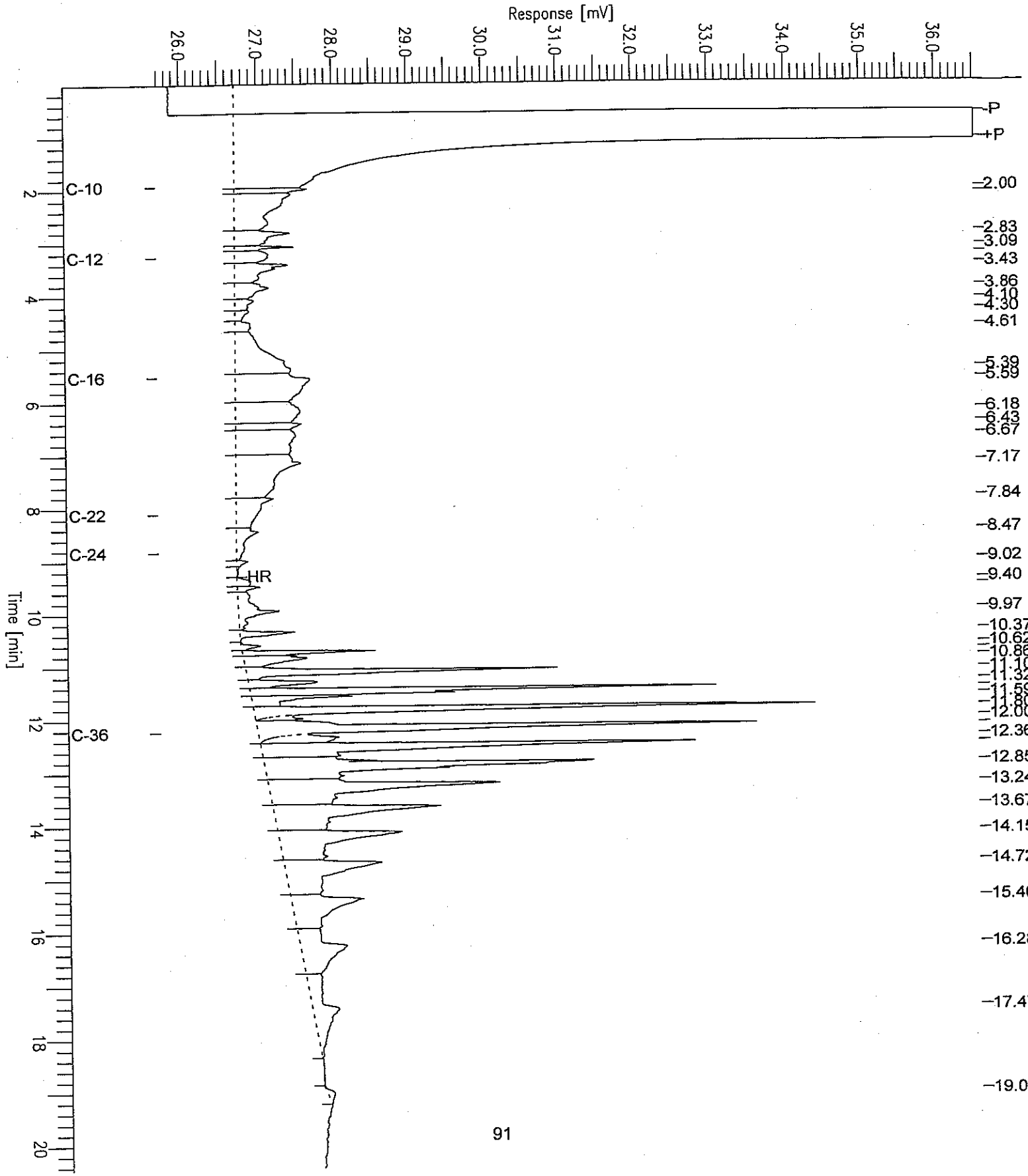
Analyzed By: CGV. 11/03/04 Reviewed By: [illegible] 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A005P.TX0

Chromatogram

Sample Name : ical,04ws1748,dsl10
FileName : G:\GC11\CHA\307A005.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #: 10mg/L
Date : 11/3/04 09:55 AM
Time of Injection: 11/2/04 01:24 PM
Low Point : 25.68 mV High Point : 36.52 mV
Plot Scale: 10.8 mV



Software Version: 4.1<2F12>
Date: 11/3/04 09:59 AM
Sample Name : ical,04ws1747,dsl100
Data File : G:\GC11\CHA\307A006.RAW Date: 11/2/04 01:53 PM
Sequence File: G:\GC11\307.SEQ Cycle: 6 Channel : A
Instrument : GC11 Rack/Vial: 0/6 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	1620519	48.46	48.4594	1.00	1.00	48.4594
JP5:10-16	1620519	77.67	77.6708	1.00	1.00	77.6708
JETA:10-16	1620519	83.58	83.5793	1.00	1.00	83.5793
JP8:10-16	1620519	85.30	85.3017	1.00	1.00	85.3017
DSL:10-22	2474589	134.51	134.5074	1.00	1.00	134.5074
GAIAFP:10-24	2516691	59.45	59.4526	1.00	1.00	59.4526
DSL:10-24	2516691	135.64	135.6366	1.00	1.00	135.6366
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2099909	141.35	141.3542	1.00	1.00	141.3542
DSL:10-28	2536046	136.01	136.0126	1.00	1.00	136.0126
DSL:12-24	2142011	142.68	142.6781	1.00	1.00	142.6781
RRFPLH:16-24	896172	129.70	129.6981	1.00	1.00	129.6981
CRUDE:10-40	2671000	2.67	2.6710	1.00	1.00	2.6710
TRIMSOL:12-36	2253340	91.58	91.5788	1.00	1.00	91.5788
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	2296320	297.21	297.2084	1.00	1.00	297.2084
TRANSOIL:12-40	2296320	79.80	79.7976	1.00	1.00	79.7976
HYFL:12-40	2296320	98.31	98.3139	1.00	1.00	98.3139
MO:22-32	83214	5.34	5.3432	1.00	1.00	5.3432
MO:20-36	207180	10.79	10.7923	1.00	1.00	10.7923
MO:22-36	153431	8.84	8.8395	1.00	1.00	8.8395
HYFL:24-36	111329	7.79	7.7900	1.00	1.00	7.7900
TPHHF:24-36	111329	1.11e-08	1.1133e-08	1.00	1.00	1.1133e-08
MO:24-36	111329	8.08	8.0826	1.00	1.00	8.0826
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

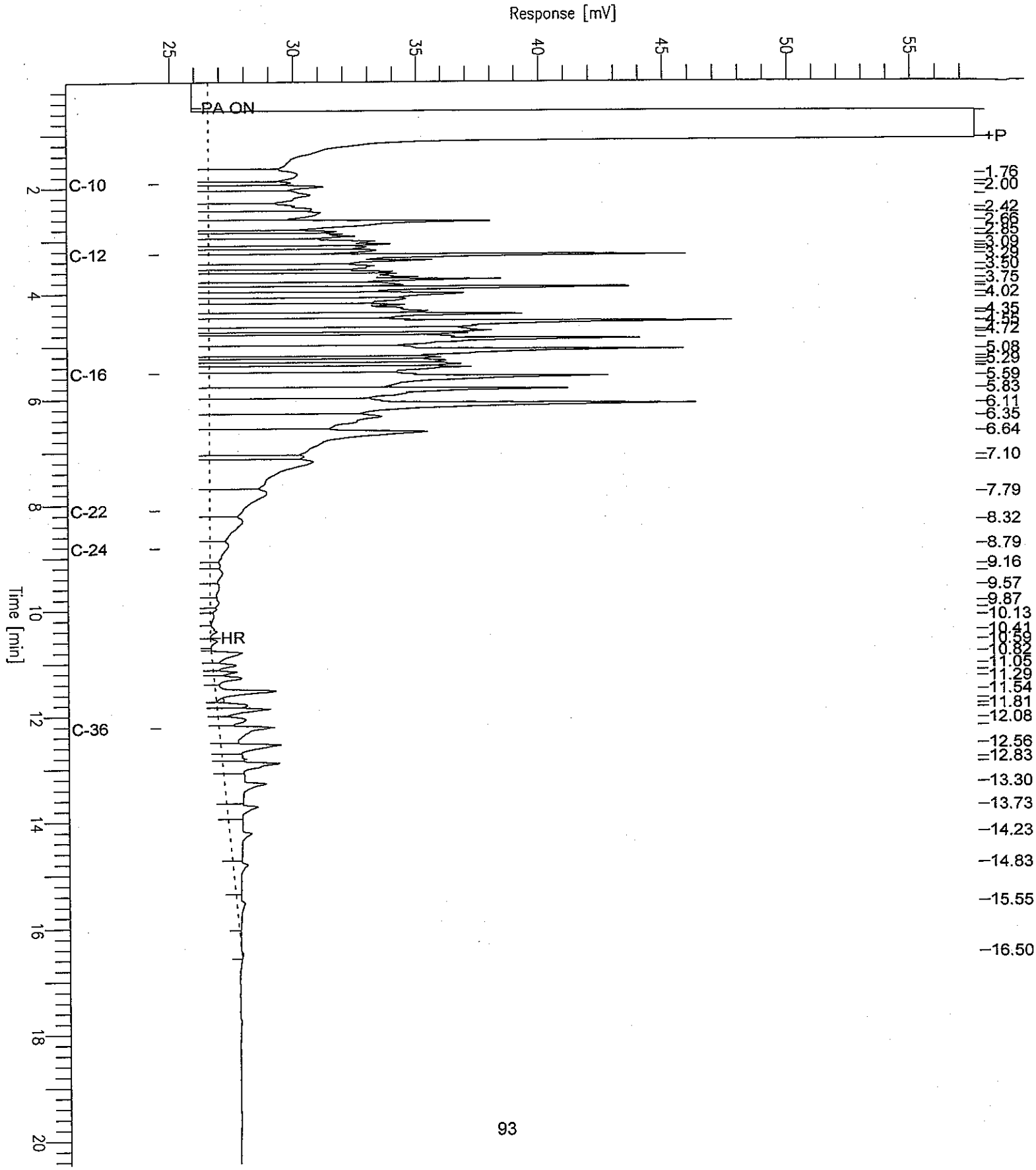
Analyzed By: S.V. 11/03/04 Reviewed By: mcm 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A006P.TX0

Chromatogram

Sample Name : ical,04ws1747,dsl100
FileName : G:\GC11\CHA\307A006.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 100mg/L
Date : 11/3/04 09:59 AM
Time of Injection: 11/2/04 01:53 PM
Low Point : 24.54 mV High Point : 57.57 mV
Plot Scale: 33.0 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:00 AM
Sample Name : ical,04ws1746,dsl250
Data File : G:\GC11\CHA\307A007.RAW Date: 11/2/04 02:22 PM
Sequence File: G:\GC11\307.SEQ Cycle: 7 Channel : A
Instrument : GC11 Rack/Vial: 0/7 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	4485487	134.13	134.1324	1.00	1.00	134.1324
JP5:10-16	4485487	214.99	214.9875	1.00	1.00	214.9875
JETA:10-16	4485487	231.34	231.3418	1.00	1.00	231.3418
JP8:10-16	4485487	236.11	236.1094	1.00	1.00	236.1094
DSL:10-22	6373994	346.46	346.4612	1.00	1.00	346.4612
GAIAFP:10-24	6413127	151.50	151.4994	1.00	1.00	151.4994
DSL:10-24	6413127	345.63	345.6342	1.00	1.00	345.6342
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	5457463	367.37	367.3661	1.00	1.00	367.3661
DSL:10-28	6447715	345.80	345.8023	1.00	1.00	345.8023
DSL:12-24	5496595	366.13	366.1251	1.00	1.00	366.1251
RRFPLH:16-24	1927640	278.98	278.9768	1.00	1.00	278.9768
CRUDE:10-40	6530401	6.53	6.5304	1.00	1.00	6.5304
TRIMSOL:12-36	5574688	226.56	226.5629	1.00	1.00	226.5629
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	5613870	726.59	726.5926	1.00	1.00	726.5926
TRANSOIL:12-40	5613870	195.08	195.0832	1.00	1.00	195.0832
HYFL:12-40	5613870	240.35	240.3504	1.00	1.00	240.3504
MO:22-32	87968	5.65	5.6484	1.00	1.00	5.6484
MO:20-36	342275	17.83	17.8296	1.00	1.00	17.8296
MO:22-36	117225	6.75	6.7536	1.00	1.00	6.7536
HYFL:24-36	78093	5.46	5.4644	1.00	1.00	5.4644
TPHHF:24-36	78093	7.81e-09	7.8093e-09	1.00	1.00	7.8093e-09
MO:24-36	78093	5.67	5.6696	1.00	1.00	5.6696
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

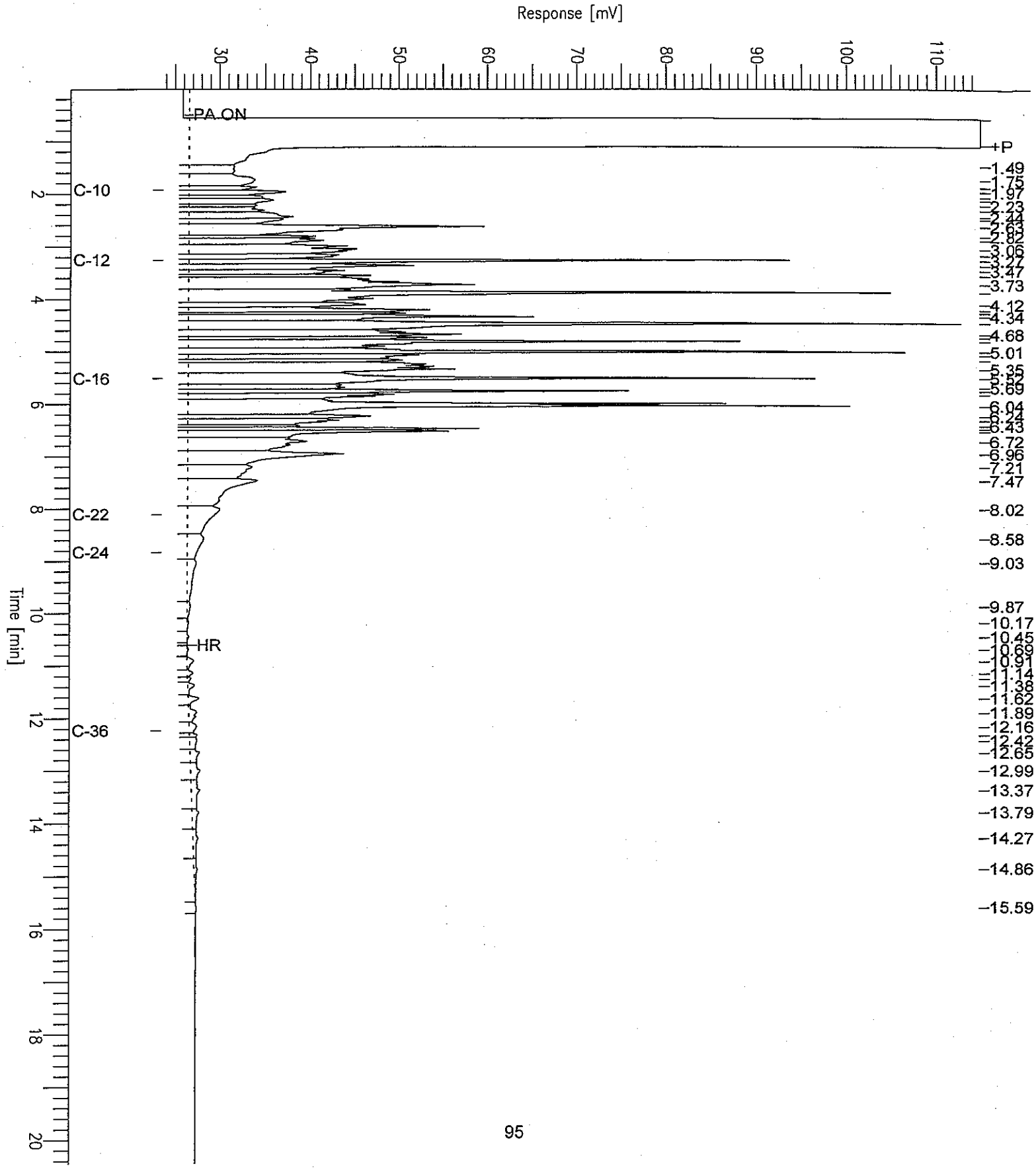
Analyzed By: [illegible] 11/03/04 Reviewed By: [illegible] 11/8/04

Report stored in ASCII file: G:\GC11\CHA\307A007P.TX0

Chromatogram

Sample Name : ical,04ws1746,ds1250
FileName : G:\GC11\CHA\307A007.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 250mg/L Page 1 of 1
Date : 11/3/04 10:00 AM
Time of Injection: 11/2/04 02:22 PM
Low Point : 23.66 mV High Point : 114.91 mV
Plot Scale: 91.3 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:02 AM
Sample Name : ical,04ws1745,dsl500
Data File : G:\GC11\CHA\307A008.RAW Date: 11/2/04 02:52 PM
Sequence File: G:\GC11\307.SEQ Cycle: 8 Channel : A
Instrument : GC11 Rack/Vial: 0/8 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	8850257	264.65	264.6549	1.00	1.00	264.6549
JP5:10-16	8850257	424.19	424.1891	1.00	1.00	424.1891
JETA:10-16	8850257	456.46	456.4576	1.00	1.00	456.4576
JP8:10-16	8850257	465.86	465.8645	1.00	1.00	465.8645
DSL:10-22	12594300	684.57	684.5686	1.00	1.00	684.5686
GAIAFP:10-24	12678611	299.51	299.5111	1.00	1.00	299.5111
DSL:10-24	12678611	683.31	683.3112	1.00	1.00	683.3112
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10436924	702.56	702.5559	1.00	1.00	702.5559
DSL:10-28	12741542	683.35	683.3514	1.00	1.00	683.3514
DSL:12-24	10521235	700.81	700.8134	1.00	1.00	700.8134
RRFPLH:16-24	3828354	554.06	554.0567	1.00	1.00	554.0567
CRUDE:10-40	12785823	12.79	12.7858	1.00	1.00	12.7858
TRIMSOL:12-36	10595440	430.61	430.6130	1.00	1.00	430.6130
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	10628447	1375.62	1375.6199	1.00	1.00	1375.6199
TRANSOIL:12-40	10628447	369.34	369.3409	1.00	1.00	369.3409
HYFL:12-40	10628447	455.04	455.0428	1.00	1.00	455.0428
MO:22-32	151157	9.71	9.7058	1.00	1.00	9.7058
MO:20-36	606457	31.59	31.5912	1.00	1.00	31.5912
MO:22-36	158516	9.13	9.1325	1.00	1.00	9.1325
HYFL:24-36	74205	5.19	5.1924	1.00	1.00	5.1924
TPHHF:24-36	74205	7.42e-09	7.4205e-09	1.00	1.00	7.4205e-09
MO:24-36	74205	5.39	5.3874	1.00	1.00	5.3874
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

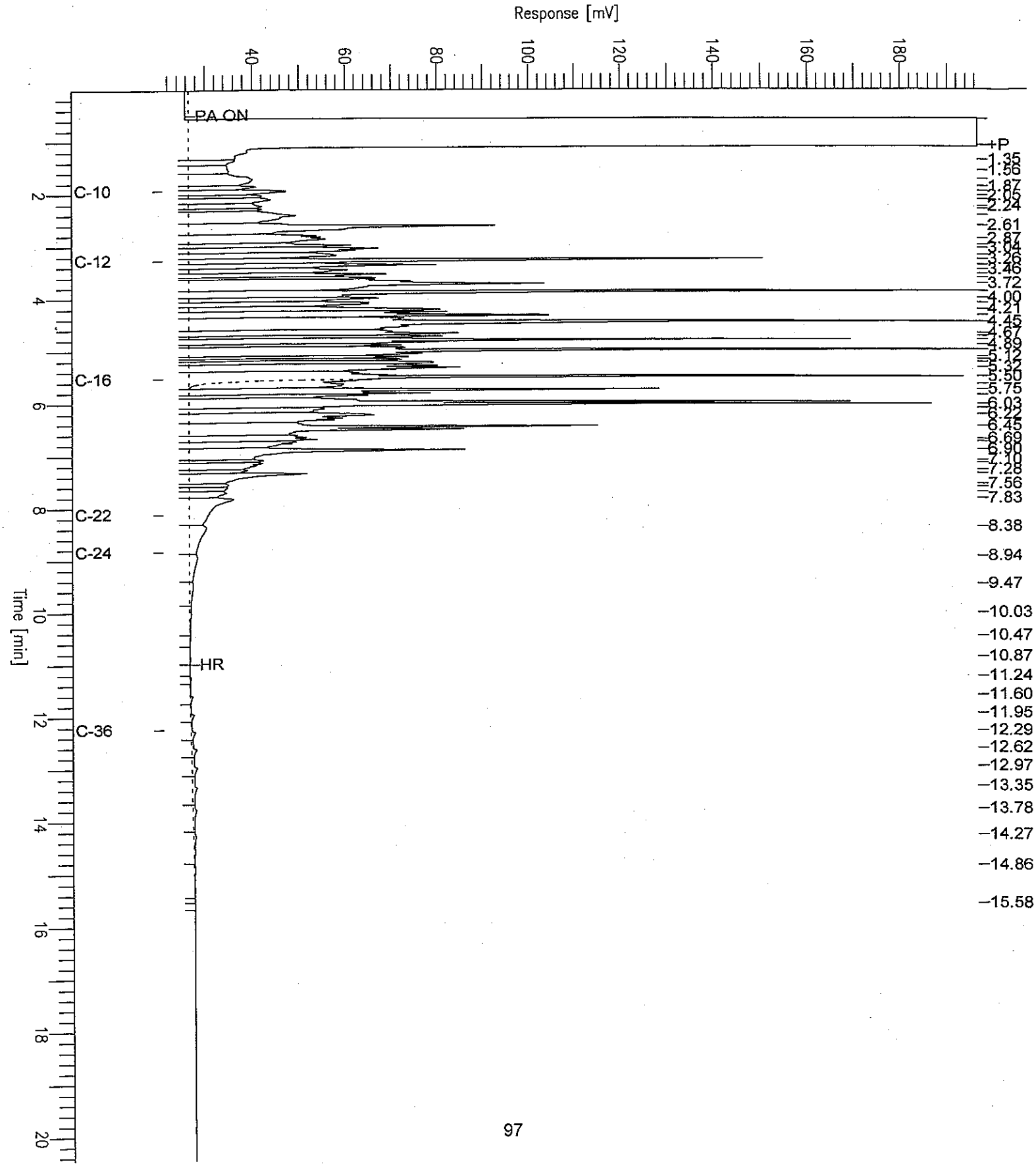
Analyzed By: LV. 11/03/04 Reviewed By: mcm 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A008P.TX0

Chromatogram

Sample Name : ical,04ws1745,ds1500
FileName : G:\GC11\CHA\307A008.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 21 mV

Sample #: 500mg/L Page 1 of 1
Date : 11/3/04 10:02 AM
Time of Injection: 11/2/04 02:52 PM
Low Point : 20.91 mV High Point : 196.57 mV
Plot Scale: 175.7 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:03 AM
Sample Name : ical,04ws1744,dsl1000
Data File : G:\GC11\CHA\307A009.RAW Date: 11/2/04 03:21 PM
Sequence File: G:\GC11\307.SEQ Cycle: 9 Channel : A
Instrument : GC11 Rack/Vial: 0/9 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	18688047	558.84	558.8406	1.00	1.00	558.8406
JP5:10-16	18688047	895.71	895.7103	1.00	1.00	895.7103
JETA:10-16	18688047	963.85	963.8479	1.00	1.00	963.8479
JP8:10-16	18688047	983.71	983.7112	1.00	1.00	983.7112
DSL:10-22	26377477	1433.76	1433.7591	1.00	1.00	1433.7591
GAIAFP:10-24	26645942	629.47	629.4660	1.00	1.00	629.4660
DSL:10-24	26645942	1436.08	1436.0778	1.00	1.00	1436.0778
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	21864249	1471.78	1471.7801	1.00	1.00	1471.7801
DSL:10-28	26716229	1432.84	1432.8385	1.00	1.00	1432.8385
DSL:12-24	22132714	1474.25	1474.2475	1.00	1.00	1474.2475
RRFPLH:16-24	7957895	1151.70	1151.7026	1.00	1.00	1151.7026
CRUDE:10-40	26759573	26.76	26.7596	1.00	1.00	26.7596
TRIMSOL:12-36	22221266	903.10	903.1023	1.00	1.00	903.1023
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	22246345	2879.30	2879.3028	1.00	1.00	2879.3028
TRANSOIL:12-40	22246345	773.07	773.0655	1.00	1.00	773.0655
HYFL:12-40	22246345	952.45	952.4477	1.00	1.00	952.4477
MO:22-32	345624	22.19	22.1924	1.00	1.00	22.1924
MO:20-36	947015	49.33	49.3314	1.00	1.00	49.3314
MO:22-36	357018	20.57	20.5687	1.00	1.00	20.5687
HYFL:24-36	88552	6.20	6.1963	1.00	1.00	6.1963
TPHHF:24-36	88552	8.86e-09	8.8552e-09	1.00	1.00	8.8552e-09
MO:24-36	88552	6.43	6.4290	1.00	1.00	6.4290
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

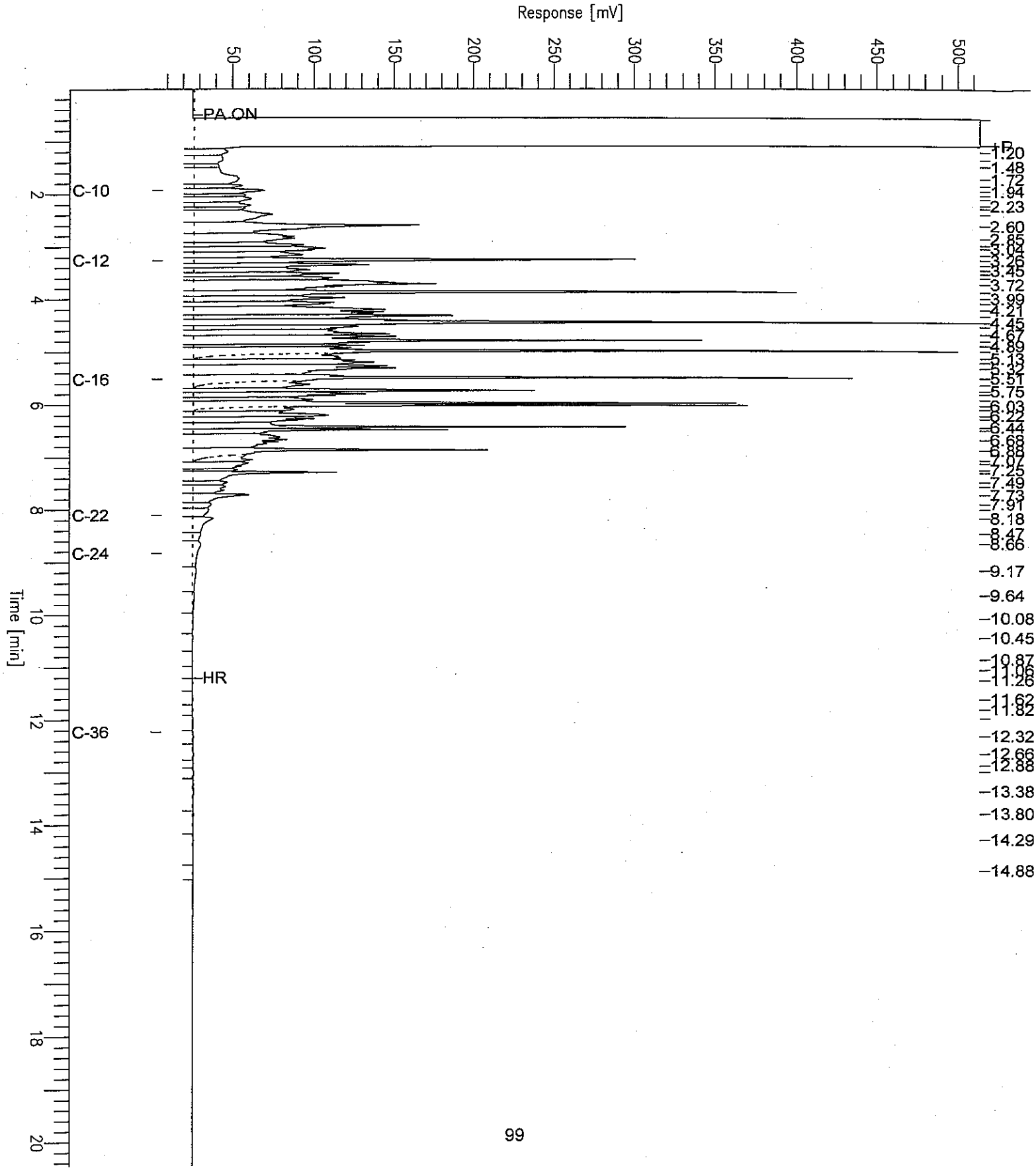
Analyzed By: SN. 11/03/04 Reviewed By: MOA 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A009P.TX0

Chromatogram

Sample Name : ical,04ws1744,ds11000
FileName : G:\GC11\CHA\307A009.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 7 mV

Sample #: 1000mg/L Page 1 of 1
Date : 11/3/04 10:03 AM
Time of Injection: 11/2/04 03:21 PM
Low Point : 7.15 mV High Point : 513.70 mV
Plot Scale: 506.5 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:03 AM
Sample Name : ical,04ws1743,dsl2500
Data File : G:\GC11\CHA\307A010.RAW Date: 11/2/04 03:50 PM
Sequence File: G:\GC11\307.SEQ Cycle: 10 Channel : A
Instrument : GC11 Rack/Vial: 0/10 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	47296159	1414.33	1414.3272	1.00	1.00	1414.3272
JP5:10-16	47296159	2266.89	2266.8853	1.00	1.00	2266.8853
JETA:10-16	47296159	2439.33	2439.3295	1.00	1.00	2439.3295
JP8:10-16	47296159	2489.60	2489.6001	1.00	1.00	2489.6001
DSL:10-22	66768980	3629.26	3629.2568	1.00	1.00	3629.2568
GAIAFP:10-24	67198034	1587.44	1587.4416	1.00	1.00	1587.4416
DSL:10-24	67198034	3621.62	3621.6248	1.00	1.00	3621.6248
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	57194248	3850.00	3849.9998	1.00	1.00	3849.9998
DSL:10-28	67441444	3617.00	3617.0037	1.00	1.00	3617.0037
DSL:12-24	57623302	3838.26	3838.2553	1.00	1.00	3838.2553
RRFPLH:16-24	19901875	2880.29	2880.2894	1.00	1.00	2880.2894
CRUDE:10-40	67556528	67.56	67.5565	1.00	1.00	67.5565
TRIMSOL:12-36	57939043	2354.72	2354.7210	1.00	1.00	2354.7210
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	57981795	7504.48	7504.4751	1.00	1.00	7504.4751
TRANSOIL:12-40	57981795	2014.88	2014.8803	1.00	1.00	2014.8803
HYFL:12-40	57981795	2482.41	2482.4134	1.00	1.00	2482.4134
MO:22-32	711023	45.65	45.6546	1.00	1.00	45.6546
MO:20-36	2478316	129.10	129.0992	1.00	1.00	129.0992
MO:22-36	744795	42.91	42.9095	1.00	1.00	42.9095
HYFL:24-36	315741	22.09	22.0933	1.00	1.00	22.0933
TPHHF:24-36	315741	3.16e-08	3.1574e-08	1.00	1.00	3.1574e-08
MO:24-36	315741	22.92	22.9231	1.00	1.00	22.9231
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

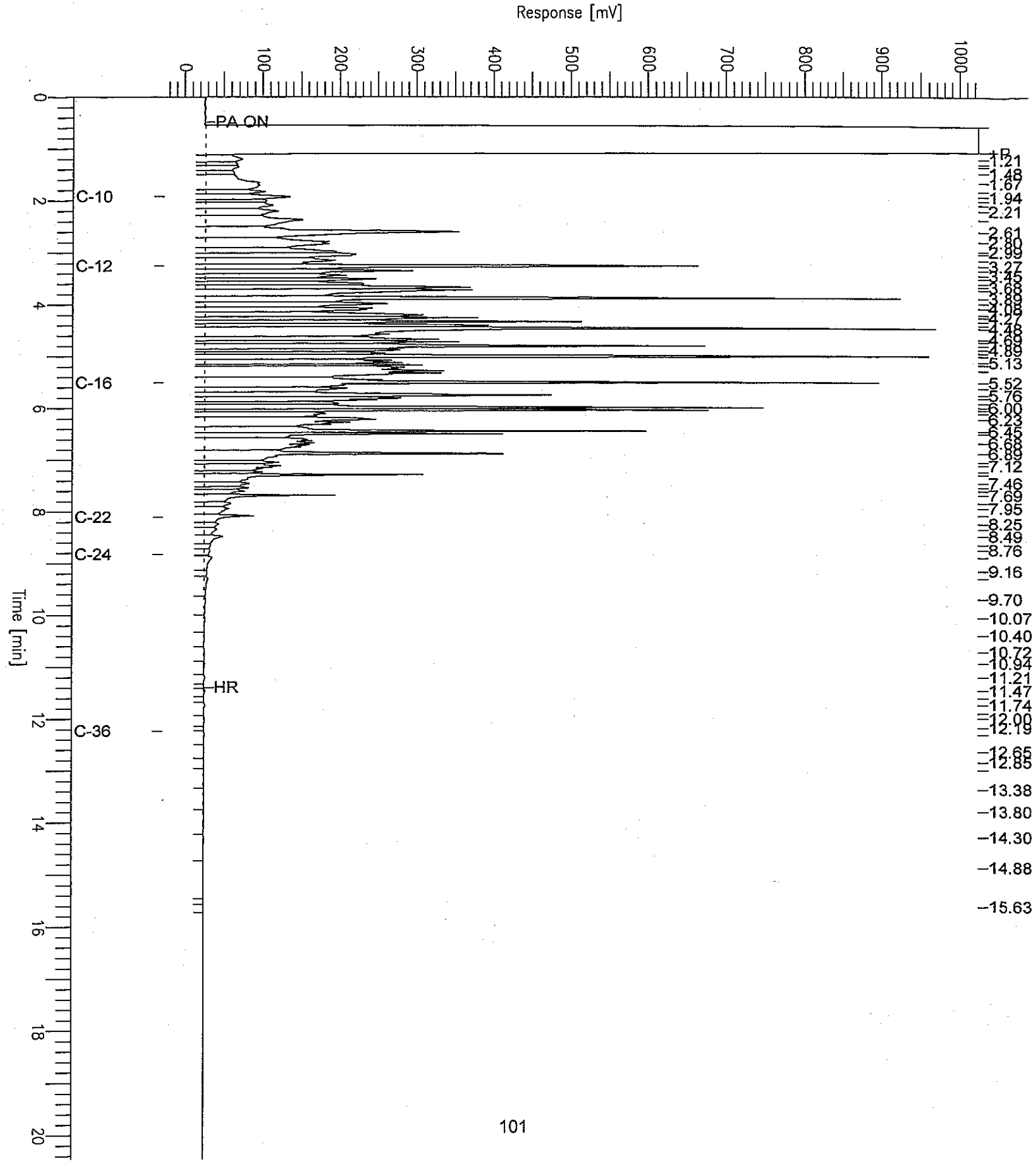
Analyzed By: 11/03/04 Reviewed By: 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A010P.TX0

Chromatogram

Sample Name : ical,04ws1743,ds12500
FileName : G:\GC11\CHA\307A010.RAW
Method : ATEH306S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 2500mg/L Page 1 of 1
Date : 11/3/04 10:03 AM
Time of Injection: 11/2/04 03:50 PM
Low Point : -26.87 mV High Point : 1024.00 mV
Plot Scale: 1050.9 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:04 AM
Sample Name : ical,04ws1742,dsl5000
Data File : G:\GC11\CHA\307A011.RAW Date: 11/2/04 04:20 PM
Sequence File: G:\GC11\307.SEQ Cycle: 11 Channel : A
Instrument : GC11 Rack/Vial: 0/11 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	86882293	2598.10	2598.0966	1.00	1.00	2598.0966
JP5:10-16	86882293	4164.23	4164.2324	1.00	1.00	4164.2324
JETA:10-16	86882293	4481.01	4481.0095	1.00	1.00	4481.0095
JP8:10-16	86882293	4573.36	4573.3559	1.00	1.00	4573.3559
DSL:10-22	131661900	7156.54	7156.5395	1.00	1.00	7156.5395
GAIAFP:10-24	132642813	3133.47	3133.4655	1.00	1.00	3133.4655
DSL:10-24	132642813	7148.76	7148.7582	1.00	1.00	7148.7582
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	112330996	7561.50	7561.5001	1.00	1.00	7561.5001
DSL:10-28	132974803	7131.67	7131.6735	1.00	1.00	7131.6735
DSL:12-24	113311909	7547.64	7547.6417	1.00	1.00	7547.6417
RRFPLH:16-24	45760520	6622.67	6622.6692	1.00	1.00	6622.6692
CRUDE:10-40	133053450	133.05	133.0535	1.00	1.00	133.0535
TRIMSOL:12-36	113684841	4620.31	4620.3056	1.00	1.00	4620.3056
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	113722546	14718.90	14718.8960	1.00	1.00	14718.8960
TRANSOIL:12-40	113722546	3951.88	3951.8839	1.00	1.00	3951.8839
HYFL:12-40	113722546	4868.88	4868.8795	1.00	1.00	4868.8795
MO:22-32	1343099	86.24	86.2401	1.00	1.00	86.2401
MO:20-36	4884477	254.44	254.4397	1.00	1.00	254.4397
MO:22-36	1353845	78.00	77.9984	1.00	1.00	77.9984
HYFL:24-36	372933	26.10	26.0951	1.00	1.00	26.0951
TPHHF:24-36	372933	3.73e-08	3.7293e-08	1.00	1.00	3.7293e-08
MO:24-36	372933	27.08	27.0752	1.00	1.00	27.0752
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

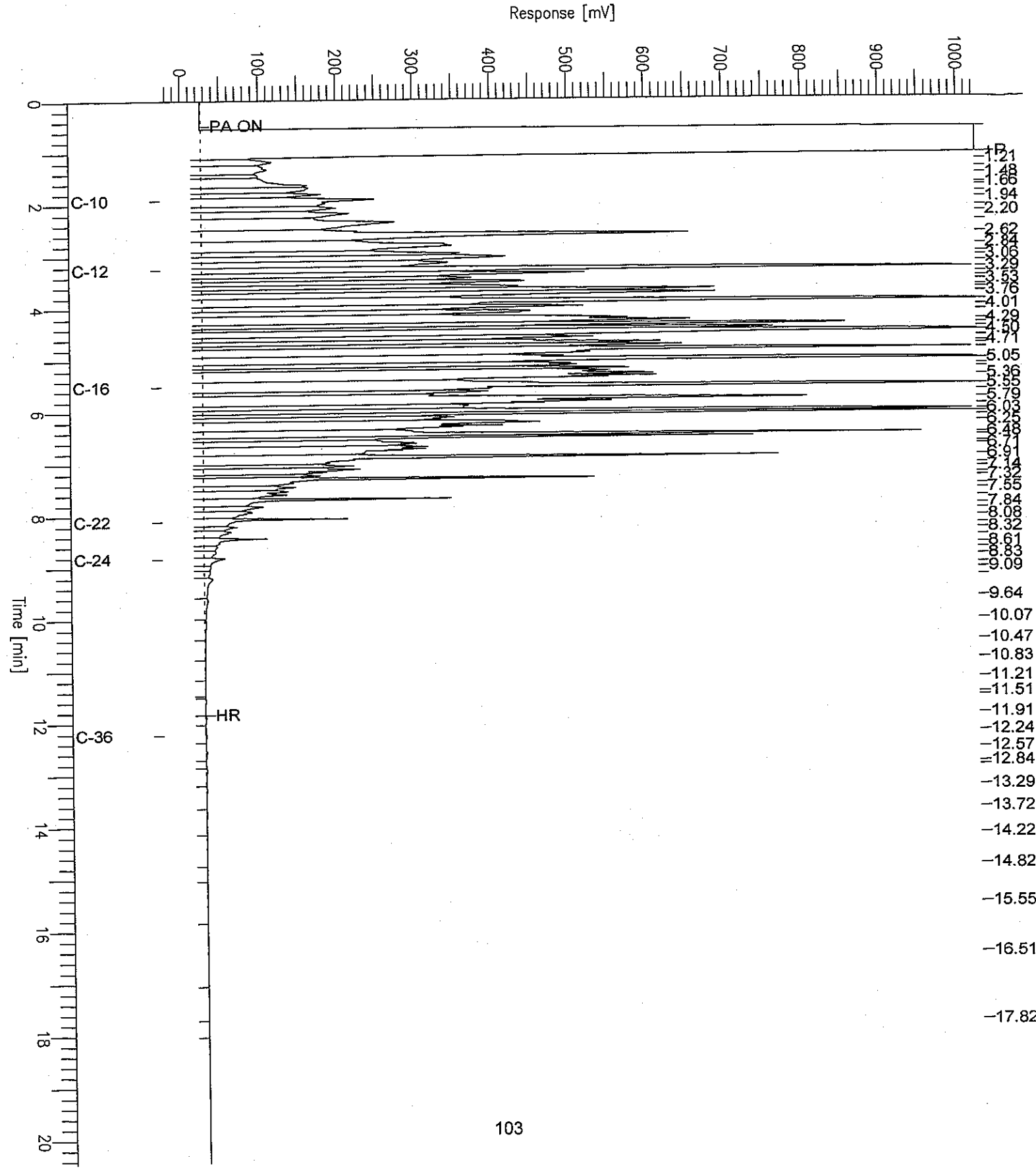
Analyzed By: 11/03/04 Reviewed By: 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A011P.TX0

Chromatogram

Sample Name : ical,04ws1742,ds15000
FileName : G:\GC11\CHA\307A011.RAW
Method : ATEH306S.MTH
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 5000mg/L
Date : 11/3/04 10:04 AM
Time of Injection: 11/2/04 04:20 PM
Low Point : -26.90 mV High Point : 1024.00 mV
Plot Scale: 1050.9 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC11A
Seqnum : 114442646028

Run Name : ds1500
Filename : 307a028

Injected : 03-NOV-2004 00:38
Caltype :

Standards: 04WS2006

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Flags
Diesel C10-C22	114442646001	02-NOV-2004	500.0000	510.0951	mg/L	2	
Diesel C10-C24	114442646001	02-NOV-2004	500.0000	510.3010	mg/L	2	
Diesel C10-C28	114442646001	02-NOV-2004	500.0000	508.5720	mg/L	2	
Diesel C12-C22	114442646001	02-NOV-2004	500.0000	503.9989	mg/L	1	
Diesel C12-C24	114442646001	02-NOV-2004	500.0000	504.3198	mg/L	1	
Diesel C12-C36	114442646001	02-NOV-2004	500.0000	453.3394	mg/L	-9	
Hexacosane	114442646003	02-NOV-2004	50.00000	50.68299	mg/L	1	

12839280 / 25160.20226 = 510.3011441377

LV. 11/03/04

11/3/04

Software Version: 4.1<2F12>
Date: 11/3/04 11:33 AM
Sample Name : icv,04ws2006,dsl500
Data File : G:\GC11\CHA\307A028.RAW Date: 11/3/04 12:38 AM
Sequence File: G:\GC11\307.SEQ Cycle: 28 Channel : A
Instrument : GC11 Rack/Vial: 0/28 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	8980387	268.55	268.5462	1.00	1.00	268.5462
JP5:10-16	8980387	430.43	430.4262	1.00	1.00	430.4262
JETA:10-16	8980387	463.17	463.1692	1.00	1.00	463.1692
JP8:10-16	8980387	472.71	472.7143	1.00	1.00	472.7143
DSL:10-22	12699911	510.10	510.0951	1.00	1.00	510.0951
GAIAFP:10-24	12839280	303.31	303.3066	1.00	1.00	303.3066
DSL:10-24	12839280	510.30	510.3011	1.00	1.00	510.3011
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10523132	504.00	503.9989	1.00	1.00	503.9989
DSL:10-28	14269634	561.51	561.5122	1.00	1.00	561.5122
DSL:12-24	10662501	504.32	504.3199	1.00	1.00	504.3199
RRFPLH:16-24	3858893	558.48	558.4764	1.00	1.00	558.4764
CRUDE:10-40	14290750	14.29	14.2908	1.00	1.00	14.2908
TRIMSOL:12-36	12106625	492.03	492.0296	1.00	1.00	492.0296
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	12113971	1567.89	1567.8886	1.00	1.00	1567.8886
TRANSOIL:12-40	12113971	420.96	420.9632	1.00	1.00	420.9632
HYFL:12-40	12113971	518.64	518.6436	1.00	1.00	518.6436
MO:22-32	1578397	77.70	77.7003	1.00	1.00	77.7003
MO:20-36	2034325	80.58	80.5768	1.00	1.00	80.5768
MO:22-36	1583492	68.89	68.8853	1.00	1.00	68.8853
HYFL:24-36	1444124	101.05	101.0494	1.00	1.00	101.0494
TPHHF:24-36	1444124	1.44e-07	1.4441e-07	1.00	1.00	1.4441e-07
MO:24-36	1444124	79.46	79.4563	1.00	1.00	79.4563
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

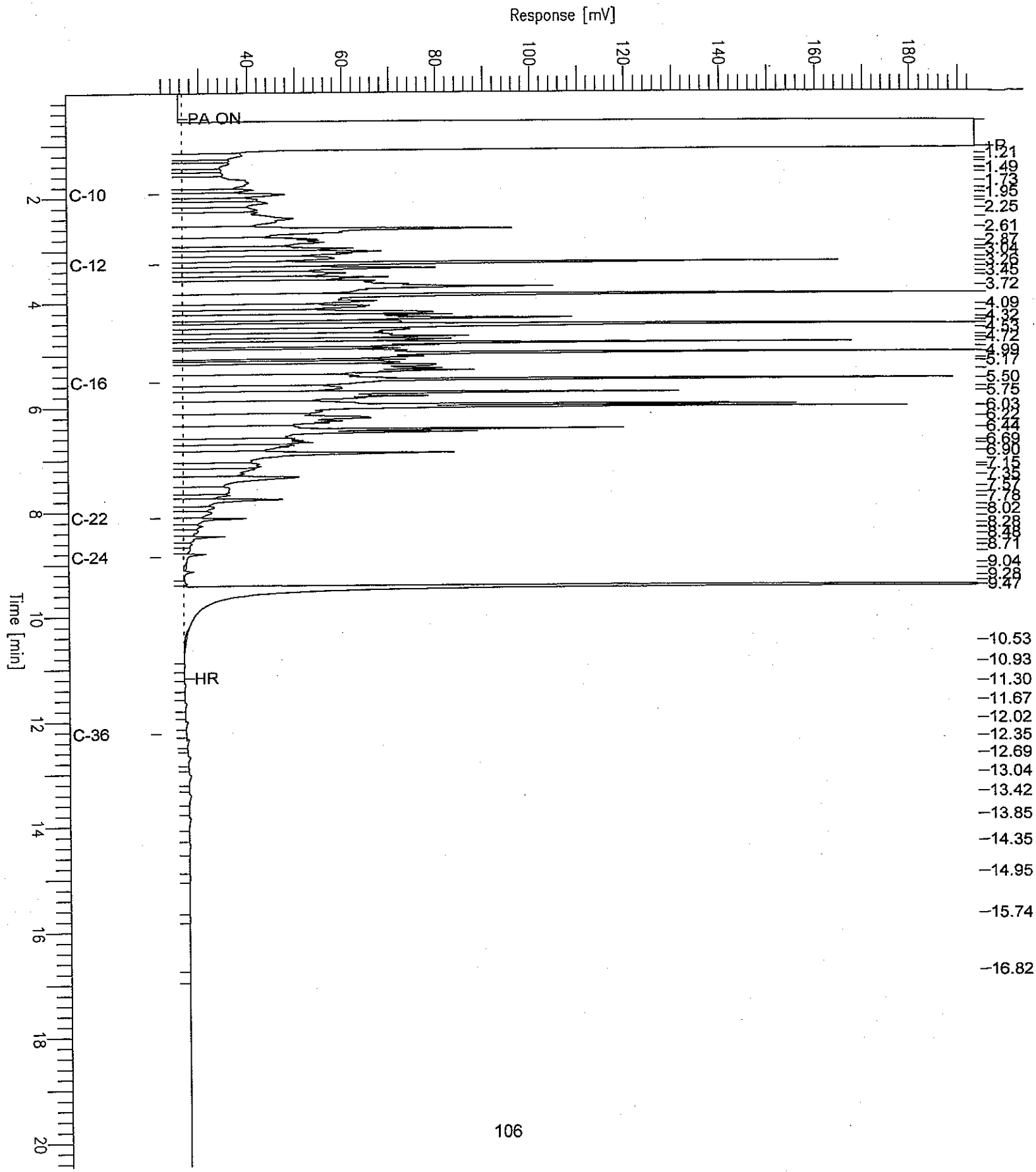
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\307A028P.TXO

Chromatogram

Sample Name : icv,04ws2006,ds1500
FileName : G:\GC11\CHA\307A028.RAW
Method : ATEH308S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L Page 1 of 1
Date : 11/3/04 11:33 AM
Time of Injection: 11/3/04 12:38 AM
Low Point : 21.51 mV High Point : 193.36 mV
Plot Scale: 171.9 mV



Software Version: 4.1<2F12>
Date: 11/3/04 11:27 AM
Sample Name : icv,04ws2006,dsl500
Data File : G:\GC11\CHA\307A028.RAW Date: 11/3/04 12:38 AM
Sequence File: G:\GC11\307.SEQ Cycle: 28 Channel : A
Instrument : GC11 Rack/Vial: 0/28 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
HXCS	1345360	50.68	50.6830		BB	9.470	101.3660

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

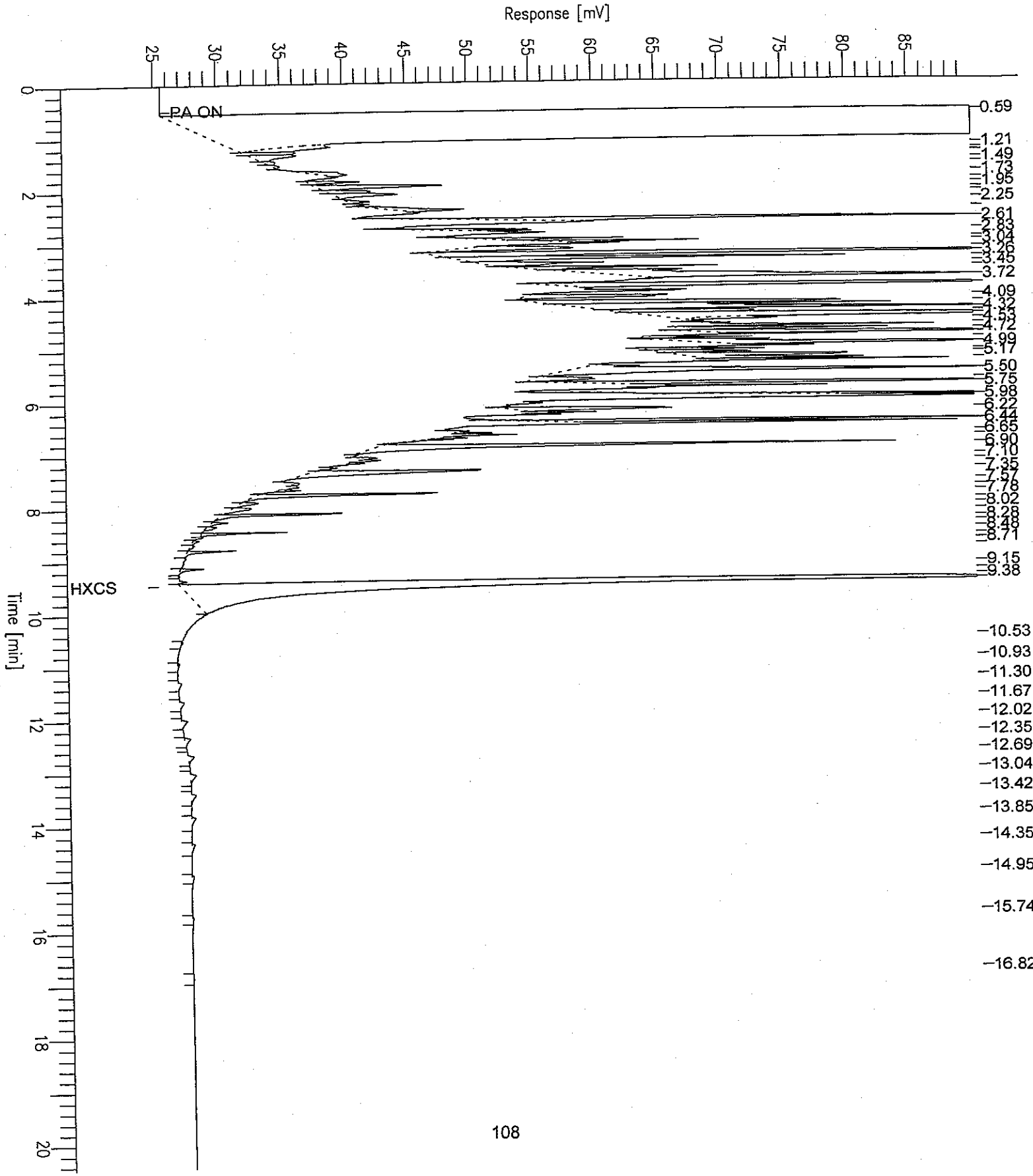
Report stored in ASCII file: G:\GC11\CHA\307A028.TX0

Chromatogram

Sample Name : icv,04ws2006,ds1500
FileName : G:\GC11\CHA\307a028.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 11/3/04 11:27 AM
Time of Injection: 11/3/04 12:38 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: /mcw 11/3/04
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C20-C36	21925	26412	25953	26327	26569	24295	AVRG	R		3.961E-5		mg/L	25247	7	0.995	20	
Motor Oil C22-C32	20531	21030	20037	19788	20631	19867	AVRG	R		4.923E-5		mg/L	20314	2	0.995	20	
Motor Oil C22-C36	21925	23985	22891	23278	24080	21767	AVRG	R		4.350E-5		mg/L	22987	4	0.995	20	
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG	R		5.502E-5		mg/L	18175	7	0.995	20	

Gr. 11/08/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 11/3/04 10:07 AM
Sample Name : ical,04ws1208,mo50
Data File : G:\GC11\CHA\307A013.RAW Date: 11/2/04 05:19 PM
Sequence File: G:\GC11\307.SEQ Cycle: 13 Channel : A
Instrument : GC11 Rack/Vial: 0/13 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	578	0.02	0.0173	1.00	1.00	0.0173
JP5:10-16	578	0.03	0.0277	1.00	1.00	0.0277
JETA:10-16	578	0.03	0.0298	1.00	1.00	0.0298
JP8:10-16	578	0.03	0.0304	1.00	1.00	0.0304
DSL:10-22	664	0.04	0.0361	1.00	1.00	0.0361
GAIAFP:10-24	296982	7.02	7.0157	1.00	1.00	7.0157
DSL:10-24	296982	16.01	16.0058	1.00	1.00	16.0058
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	86	0.01	0.0058	1.00	1.00	0.0058
DSL:10-28	752512	40.36	40.3585	1.00	1.00	40.3585
DSL:12-24	296404	19.74	19.7433	1.00	1.00	19.7433
RRFPLH:16-24	296404	42.90	42.8969	1.00	1.00	42.8969
CRUDE:10-40	1156563	1.16	1.1566	1.00	1.00	1.1566
TRIMSOL:12-36	1096320	44.56	44.5559	1.00	1.00	44.5559
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	1155985	149.62	149.6169	1.00	1.00	149.6169
TRANSOIL:12-40	1155985	40.17	40.1707	1.00	1.00	40.1707
HYFL:12-40	1155985	49.49	49.4920	1.00	1.00	49.4920
MO:22-32	1026545	65.91	65.9142	1.00	1.00	65.9142
MO:20-36	1096234	57.10	57.1044	1.00	1.00	57.1044
MO:22-36	1096234	63.16	63.1567	1.00	1.00	63.1567
HYFL:24-36	799916	55.97	55.9723	1.00	1.00	55.9723
TPHHF:24-36	799916	8.00e-08	7.9992e-08	1.00	1.00	7.9992e-08
MO:24-36	799916	58.07	58.0746	1.00	1.00	58.0746
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

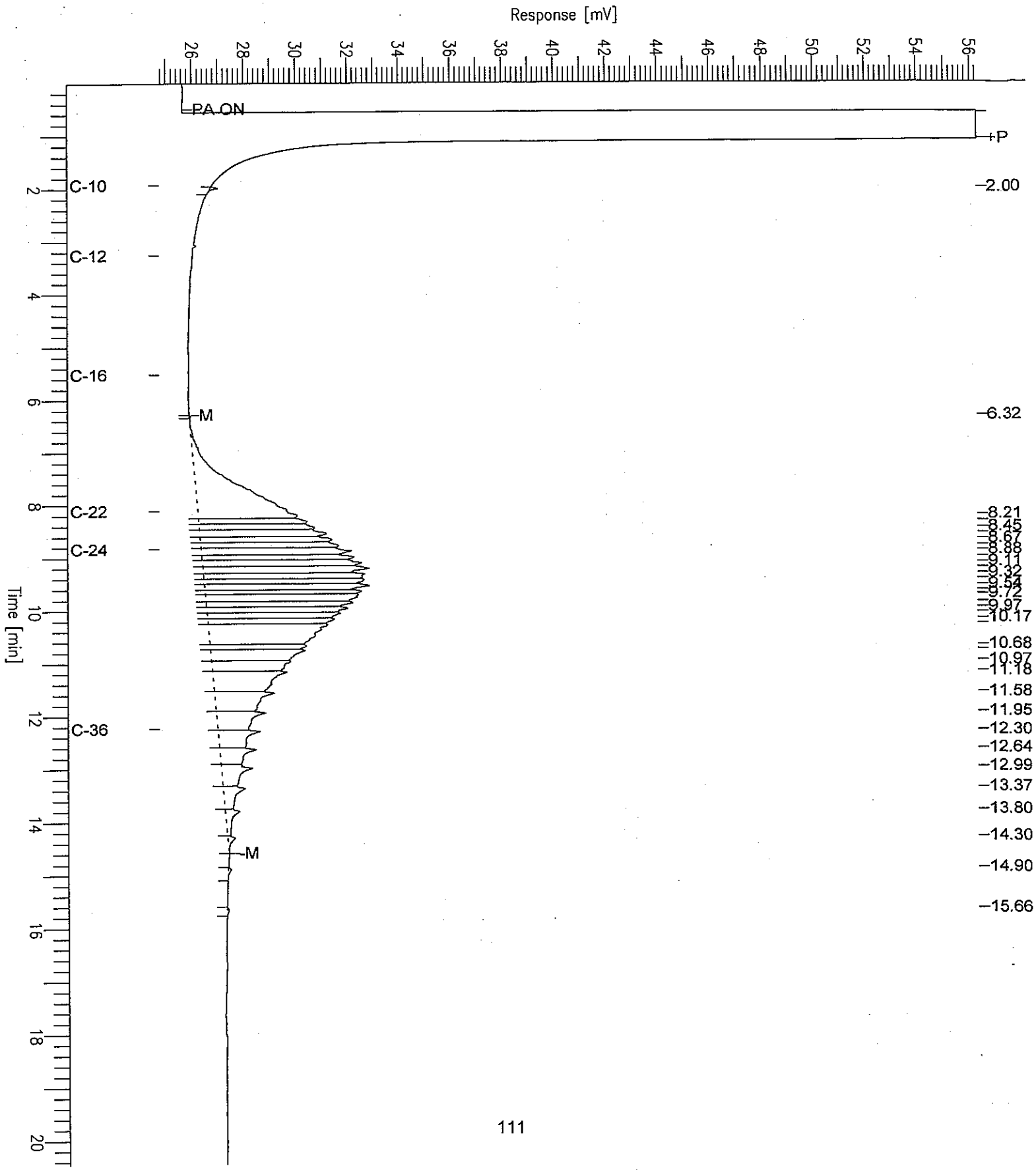
Analyzed By: SV. 11/03/04 Reviewed By: [illegible]

Report stored in ASCII file: G:\GC11\CHA\307A013P.TX0

Chromatogram

Sample Name : ical,04ws1208,mo50
FileName : G:\GG11\CHA\307A013.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L Page 1 of 1
Date : 11/3/04 10:07 AM
Time of Injection: 11/2/04 05:19 PM
Low Point : 24.72 mV High Point : 56.27 mV
Plot Scale: 31.6 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:08 AM
Sample Name : ical,04ws1209,mo250
Data File : G:\GC11\CHA\307A014.RAW Date: 11/2/04 05:48 PM
Sequence File: G:\GC11\307.SEQ Cycle: 14 Channel : A
Instrument : GC11 Rack/Vial: 0/14 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	645	0.02	0.0193	1.00	1.00	0.0193
JP5:10-16	645	0.03	0.0309	1.00	1.00	0.0309
JETA:10-16	645	0.03	0.0333	1.00	1.00	0.0333
JP8:10-16	645	0.03	0.0340	1.00	1.00	0.0340
DSL:10-22	751346	40.84	40.8397	1.00	1.00	40.8397
GAIAFP:10-24	2063891	48.76	48.7560	1.00	1.00	48.7560
DSL:10-24	2063891	111.23	111.2330	1.00	1.00	111.2330
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	750820	50.54	50.5410	1.00	1.00	50.5410
DSL:10-28	4569584	245.07	245.0748	1.00	1.00	245.0748
DSL:12-24	2063365	137.44	137.4395	1.00	1.00	137.4395
RRFPLH:16-24	2063246	298.60	298.6023	1.00	1.00	298.6023
CRUDE:10-40	6958444	6.96	6.9584	1.00	1.00	6.9584
TRIMSOL:12-36	6747009	274.21	274.2076	1.00	1.00	274.2076
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	6957918	900.55	900.5502	1.00	1.00	900.5502
TRANSOIL:12-40	6957918	241.79	241.7892	1.00	1.00	241.7892
HYFL:12-40	6957918	297.89	297.8940	1.00	1.00	297.8940
MO:22-32	5257403	337.58	337.5766	1.00	1.00	337.5766
MO:20-36	6603122	343.97	343.9664	1.00	1.00	343.9664
MO:22-36	5996189	345.46	345.4552	1.00	1.00	345.4552
HYFL:24-36	4683644	327.73	327.7276	1.00	1.00	327.7276
TPHHF:24-36	4683644	4.68e-07	4.6836e-07	1.00	1.00	4.6836e-07
MO:24-36	4683644	340.04	340.0366	1.00	1.00	340.0366
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

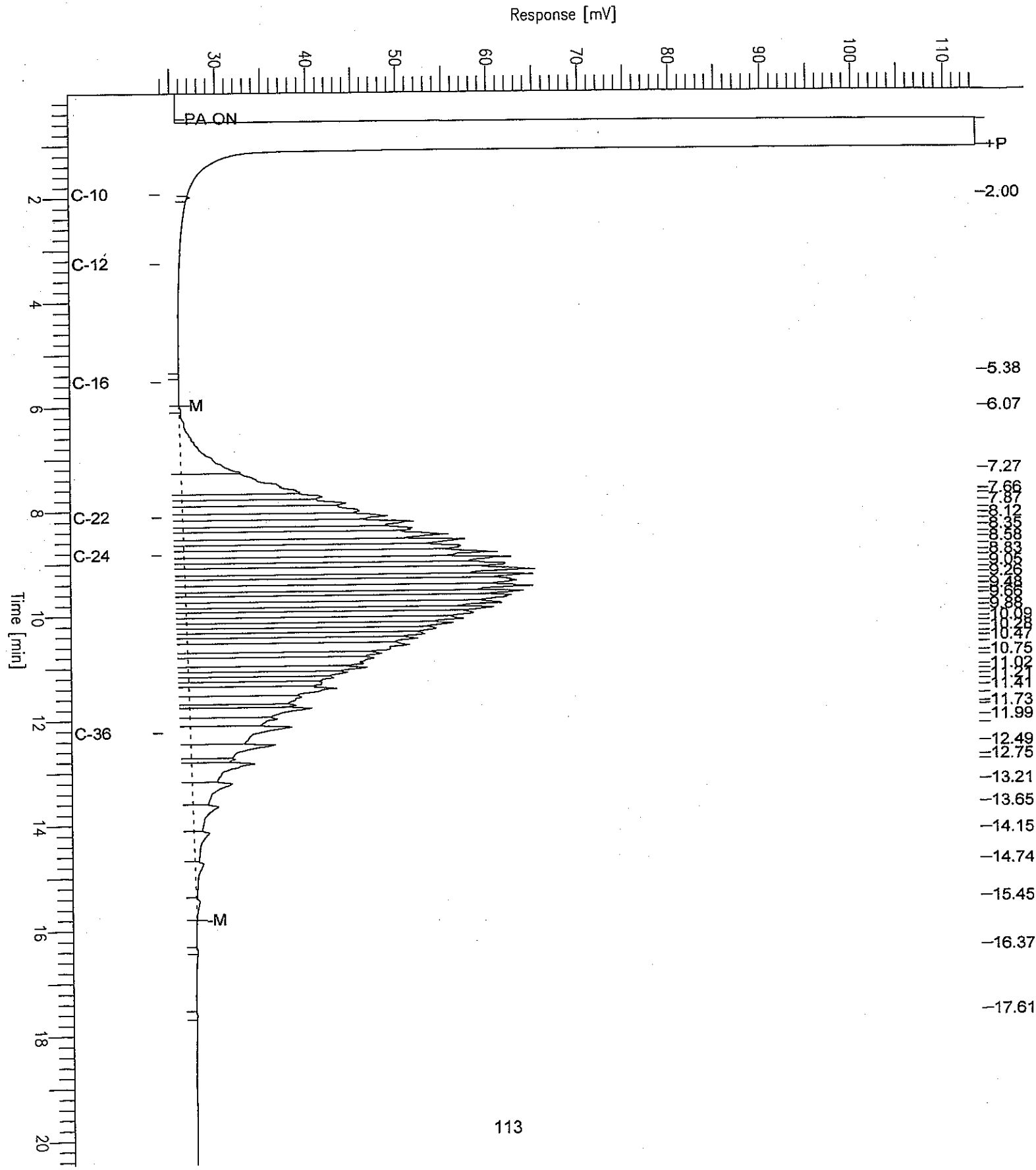
Analyzed By: S.V. 11/03/04 Reviewed By: [illegible] 11/5/04

Report stored in ASCII file: G:\GC11\CHA\307A014P.TX0

Chromatogram

Sample Name : ical,04ws1209,mo250
FileName : G:\GC11\CHA\307A014.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 250mg/L
Date : 11/3/04 10:08 AM
Time of Injection: 11/2/04 05:48 PM
Low Point : 23.89 mV High Point : 113.56 mV
Plot Scale: 89.7 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:10 AM
Sample Name : ical,04ws1210,mo500
Data File : G:\GC11\CHA\307A015.RAW Date: 11/2/04 06:17 PM
Sequence File: G:\GC11\307.SEQ Cycle: 15 Channel : A
Instrument : GC11 Rack/Vial: 0/15 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	661	0.02	0.0198	1.00	1.00	0.0198
JP5:10-16	661	0.03	0.0317	1.00	1.00	0.0317
JETA:10-16	661	0.03	0.0341	1.00	1.00	0.0341
JP8:10-16	661	0.03	0.0348	1.00	1.00	0.0348
DSL:10-22	1826136	99.26	99.2604	1.00	1.00	99.2604
GAIAFP:10-24	4120832	97.35	97.3478	1.00	1.00	97.3478
DSL:10-24	4120832	222.09	222.0914	1.00	1.00	222.0914
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1825587	122.89	122.8884	1.00	1.00	122.8884
DSL:10-28	9011345	483.29	483.2943	1.00	1.00	483.2943
DSL:12-24	4120283	274.45	274.4497	1.00	1.00	274.4497
RRFPLH:16-24	4120170	596.29	596.2897	1.00	1.00	596.2897
CRUDE:10-40	13575553	13.58	13.5756	1.00	1.00	13.5756
TRIMSOL:12-36	13270853	539.35	539.3454	1.00	1.00	539.3454
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	13575004	1756.99	1756.9873	1.00	1.00	1756.9873
TRANSOIL:12-40	13575004	471.73	471.7344	1.00	1.00	471.7344
HYFL:12-40	13575004	581.20	581.1957	1.00	1.00	581.1957
MO:22-32	10018700	643.30	643.2983	1.00	1.00	643.2983
MO:20-36	12976558	675.97	675.9682	1.00	1.00	675.9682
MO:22-36	11445266	659.39	659.3899	1.00	1.00	659.3899
HYFL:24-36	9150570	640.29	640.2908	1.00	1.00	640.2908
TPHHF:24-36	9150570	9.15e-07	9.1506e-07	1.00	1.00	9.1506e-07
MO:24-36	9150570	664.34	664.3392	1.00	1.00	664.3392
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

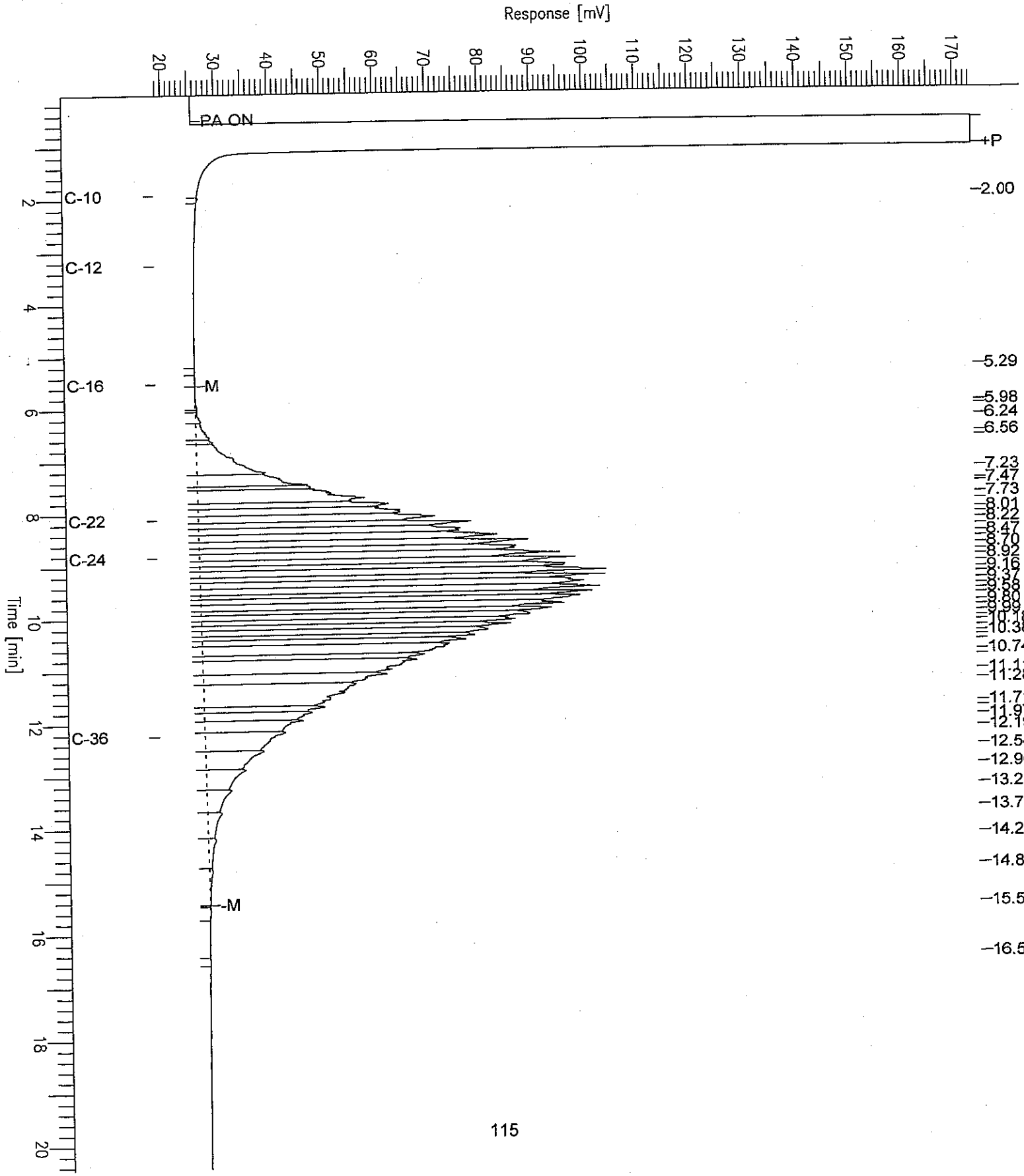
Analyzed By: SV, 11/03/04 Reviewed By: mm 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A015P.TX0

Chromatogram

Sample Name : ical,04ws1210,mo500
FileName : G:\GC11\CHA\307A015.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 500mg/L
Date : 11/3/04 10:10 AM
Time of Injection: 11/2/04 06:17 PM
Low Point : 18.49 mV High Point : 173.43 mV
Plot Scale: 154.9 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:11 AM
Sample Name : ical,04ws1211,mo1000
Data File : G:\GC11\CHA\307A016.RAW Date: 11/2/04 06:46 PM
Sequence File: G:\GC11\307.SEQ Cycle: 16 Channel : A
Instrument : GC11 Rack/Vial: 0/16 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	634	0.02	0.0190	1.00	1.00	0.0190
JP5:10-16	634	0.03	0.0304	1.00	1.00	0.0304
JETA:10-16	634	0.03	0.0327	1.00	1.00	0.0327
JP8:10-16	634	0.03	0.0334	1.00	1.00	0.0334
DSL:10-22	3639375	197.82	197.8198	1.00	1.00	197.8198
GAIAFP:10-24	8127007	191.99	191.9870	1.00	1.00	191.9870
DSL:10-24	8127007	438.00	438.0035	1.00	1.00	438.0035
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	3638895	244.95	244.9502	1.00	1.00	244.9502
DSL:10-28	17762353	952.63	952.6264	1.00	1.00	952.6264
DSL:12-24	8126527	541.30	541.3034	1.00	1.00	541.3034
RRFPLH:16-24	8126373	1176.09	1176.0854	1.00	1.00	1176.0854
CRUDE:10-40	26917046	26.92	26.9170	1.00	1.00	26.9170
TRIMSOL:12-36	26916566	1093.93	1093.9256	1.00	1.00	1093.9256
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	26916566	3483.76	3483.7607	1.00	1.00	3483.7607
TRANSOIL:12-40	26916566	935.36	935.3567	1.00	1.00	935.3567
HYFL:12-40	26916566	1152.40	1152.3970	1.00	1.00	1152.3970
MO:22-32	19787622	1270.56	1270.5584	1.00	1.00	1270.5584
MO:20-36	26327282	1371.43	1371.4272	1.00	1.00	1371.4272
MO:22-36	23277671	1341.08	1341.0838	1.00	1.00	1341.0838
HYFL:24-36	18790039	1314.79	1314.7912	1.00	1.00	1314.7912
TPHHF:24-36	18790039	1.88e-06	1.8790e-06	1.00	1.00	1.8790e-06
MO:24-36	18790039	1364.17	1364.1730	1.00	1.00	1364.1730
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: SV. 11/03/04 Reviewed By: mcw 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A016P.TX0

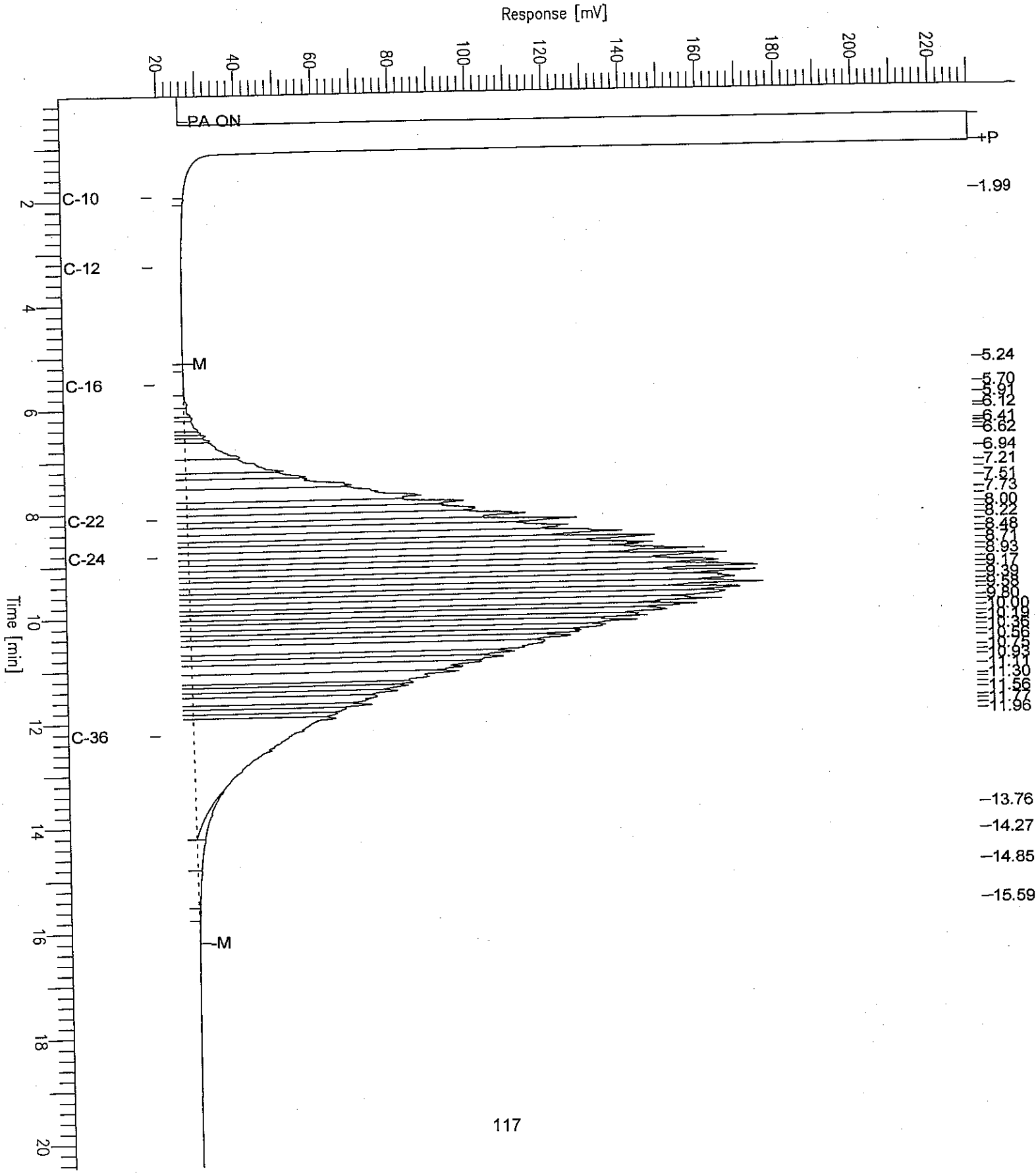
Chromatogram

Sample Name : ical,04ws1211,mo1000
FileName : G:\GC11\CHA\307A016.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 18 mV

Sample #: 1000mg/L
Date : 11/3/04 10:11 AM
Time of Injection: 11/2/04 06:46 PM
Low Point : 18.37 mV
Plot Scale: 211.7 mV

High Point : 230.11 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:12 AM
Sample Name : ical,04ws1212,mo2500
Data File : G:\GC11\CHA\307A017.RAW Date: 11/2/04 07:16 PM
Sequence File: G:\GC11\307.SEQ Cycle: 17 Channel : A
Instrument : GC11 Rack/Vial: 0/17 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	2256	0.07	0.0675	1.00	1.00	0.0675
JP5:10-16	2256	0.11	0.1081	1.00	1.00	0.1081
JETA:10-16	2256	0.12	0.1164	1.00	1.00	0.1164
JP8:10-16	2256	0.12	0.1188	1.00	1.00	0.1188
DSL:10-22	7756126	421.59	421.5876	1.00	1.00	421.5876
GAIAFP:10-24	18487752	436.74	436.7423	1.00	1.00	436.7423
DSL:10-24	18487752	996.39	996.3937	1.00	1.00	996.3937
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	7755659	522.07	522.0680	1.00	1.00	522.0680
DSL:10-28	45239473	2426.27	2426.2728	1.00	1.00	2426.2728
DSL:12-24	18487284	1231.43	1231.4275	1.00	1.00	1231.4275
RRFPLH:16-24	18485496	2675.30	2675.3045	1.00	1.00	2675.3045
CRUDE:10-40	67956537	67.96	67.9565	1.00	1.00	67.9565
TRIMSOL:12-36	67956069	2761.83	2761.8265	1.00	1.00	2761.8265
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	67956069	8795.43	8795.4266	1.00	1.00	8795.4266
TRANSOIL:12-40	67956069	2361.49	2361.4886	1.00	1.00	2361.4886
HYFL:12-40	67956069	2909.45	2909.4486	1.00	1.00	2909.4486
MO:22-32	51576344	3311.70	3311.7046	1.00	1.00	3311.7046
MO:20-36	66423060	3460.08	3460.0758	1.00	1.00	3460.0758
MO:22-36	60200410	3468.29	3468.2935	1.00	1.00	3468.2935
HYFL:24-36	49468785	3461.47	3461.4683	1.00	1.00	3461.4683
TPHHF:24-36	49468785	4.95e-06	4.9469e-06	1.00	1.00	4.9469e-06
MO:24-36	49468785	3591.48	3591.4763	1.00	1.00	3591.4763
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

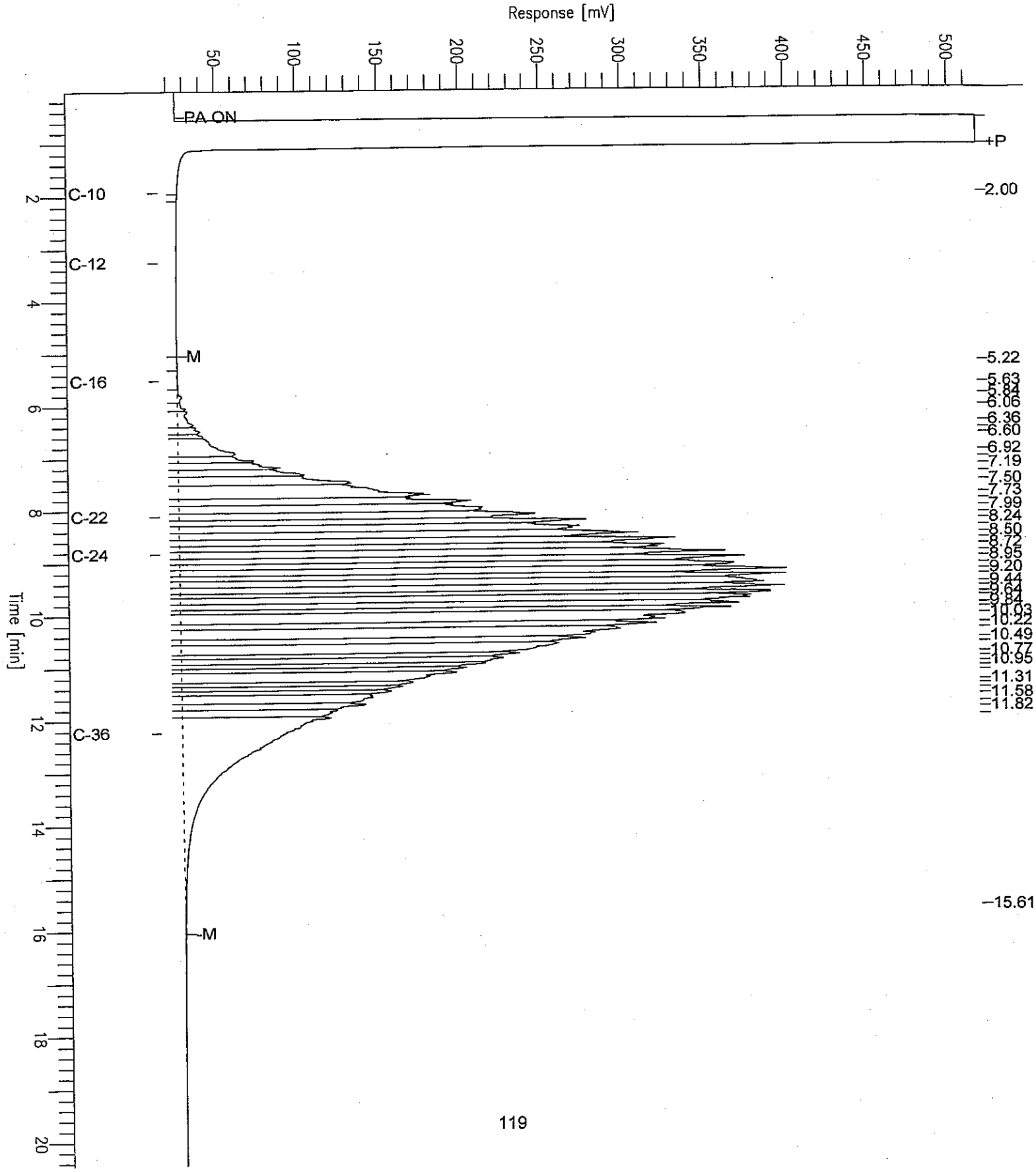
Analyzed By: SV, 11/03/04 Reviewed By: [illegible] 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A017P.TX0

Chromatogram

Sample Name : ical,04ws1212,mo2500
FileName : G:\GC11\CHA\307A017.RAW
Method : ATEH3D6S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #: 2500mg/L
Date : 11/3/04 10:12 AM
Time of Injection: 11/2/04 07:16 PM
Low Point : 14.63 mV High Point : 517.44 mV
Plot Scale: 502.8 mV



Software Version: 4.1<2F12>
Date: 11/3/04 10:13 AM
Sample Name : ical,04ws1012,mo5000
Data File : G:\GC11\CHA\307A018.RAW Date: 11/2/04 07:45 PM
Sequence File: G:\GC11\307.SEQ Cycle: 18 Channel : A
Instrument : GC11 Rack/Vial: 0/18 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	11990	0.36	0.3585	1.00	1.00	0.3585
JP5:10-16	11990	0.57	0.5747	1.00	1.00	0.5747
JETA:10-16	11990	0.62	0.6184	1.00	1.00	0.6184
JP8:10-16	11990	0.63	0.6311	1.00	1.00	0.6311
DSL:10-22	16156887	878.21	878.2146	1.00	1.00	878.2146
GAIAFP:10-24	37795257	892.85	892.8500	1.00	1.00	892.8500
DSL:10-24	37795257	2036.97	2036.9679	1.00	1.00	2036.9679
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	16156201	1087.55	1087.5459	1.00	1.00	1087.5459
DSL:10-28	89517043	4800.96	4800.9571	1.00	1.00	4800.9571
DSL:12-24	37794571	2517.47	2517.4748	1.00	1.00	2517.4748
RRFPLH:16-24	37783267	5468.17	5468.1651	1.00	1.00	5468.1651
CRUDE:10-40	124989649	124.99	124.9896	1.00	1.00	124.9896
TRIMSOL:12-36	124988963	5079.72	5079.7204	1.00	1.00	5079.7204
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	124988963	16177.09	16177.0873	1.00	1.00	16177.0873
TRANSOIL:12-40	124988963	4343.39	4343.3944	1.00	1.00	4343.3944
HYFL:12-40	124988963	5351.24	5351.2361	1.00	1.00	5351.2361
MO:22-32	99337346	6378.43	6378.4269	1.00	1.00	6378.4269
MO:20-36	121477393	6327.94	6327.9378	1.00	1.00	6327.9378
MO:22-36	108832762	6270.12	6270.1227	1.00	1.00	6270.1227
HYFL:24-36	87194393	6101.23	6101.2339	1.00	1.00	6101.2339
TPHHF:24-36	87194393	8.72e-06	8.7194e-06	1.00	1.00	8.7194e-06
MO:24-36	87194393	6330.39	6330.3879	1.00	1.00	6330.3879
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

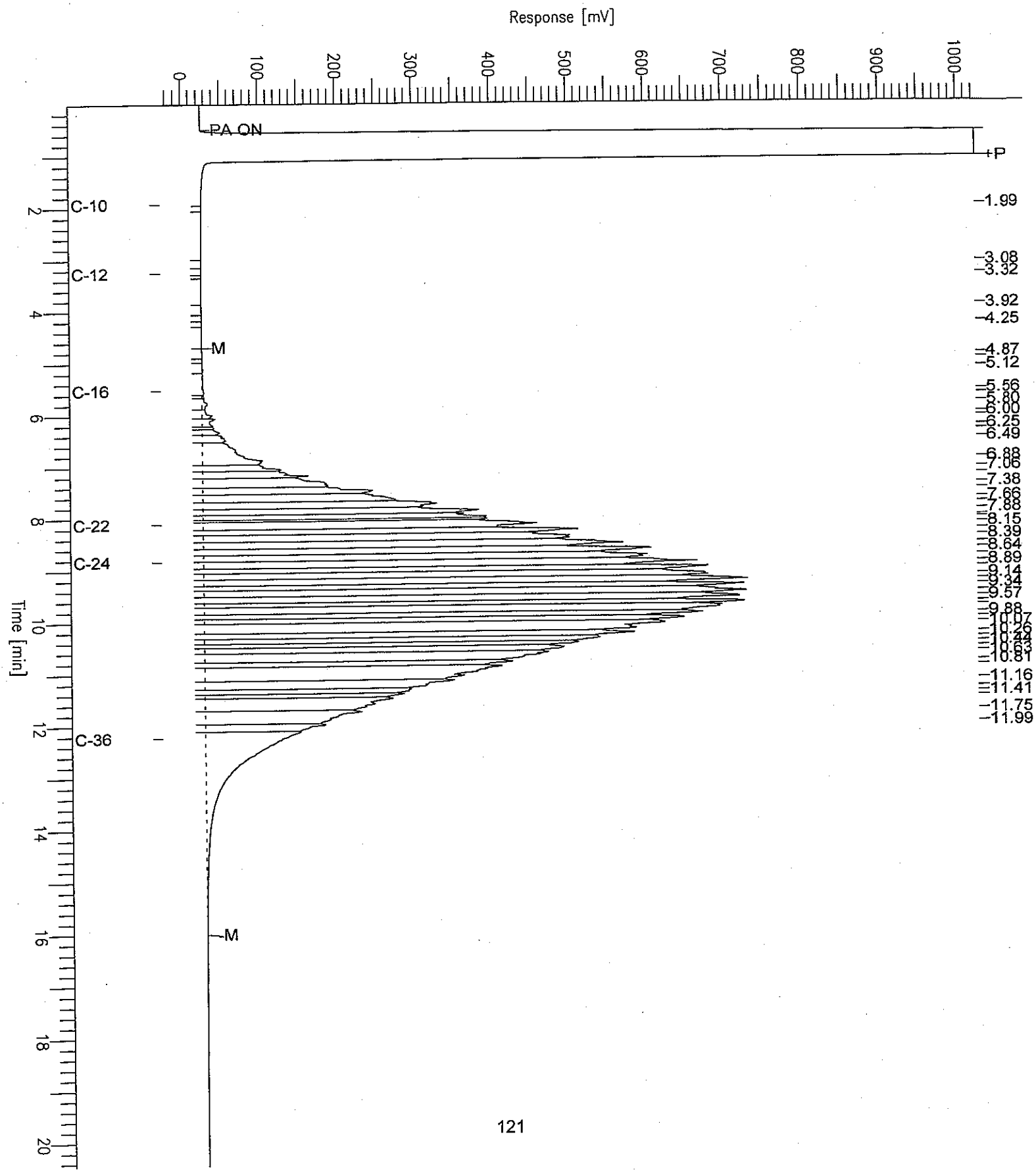
Analyzed By: GV. 11/03/04 Reviewed By: Nan 11/3/04

Report stored in ASCII file: G:\GC11\CHA\307A018P.TXO

Chromatogram

Sample Name : ical,04ws1012,mo5000
FileName : G:\GC11\CHA\307A018.RAW
Method : ATEH306S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: -27 mV

Sample #: 5000mg/L
Date : 11/3/04 10:13 AM
Time of Injection: 11/2/04 07:45 PM
Low Point : -26.96 mV High Point : 1024.00 mV
Plot Scale: 1051.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: [illegible] 12/1/04
Calnum: 114481514002 Name: Hexacosane Type: (normal) Date: 30-NOV-2004 19:21 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	334a057	114481514057	hex5	30-NOV-2004 19:21	04WS2042
2	334a058	114481514058	hex10	30-NOV-2004 19:50	04WS2043
3	334a059	114481514059	hex25	30-NOV-2004 20:20	04WS2044
4	334a060	114481514060	hex50	30-NOV-2004 20:49	04WS2045
5	334a061	114481514061	hex75	30-NOV-2004 21:19	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	27671	26552	26591	27497	28799	AVRG R		3.647E-5		mg/L	27422	3	0.995	20	

MMP 12/01/04

122

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 12/1/04 10:53 AM
Sample Name : ical,04ws2042,hex5
Data File : G:\GC11\CHA\334A057.RAW Date: 11/30/04 07:21 PM
Sequence File: G:\GC11\334.SEQ Cycle: 57 Channel : A
Instrument : GC11 Rack/Vial: 0/57 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	138356	5.21	5.2122			9.509	10.4244

CURTIS & TOMPKINS,LTD. BERKELEY

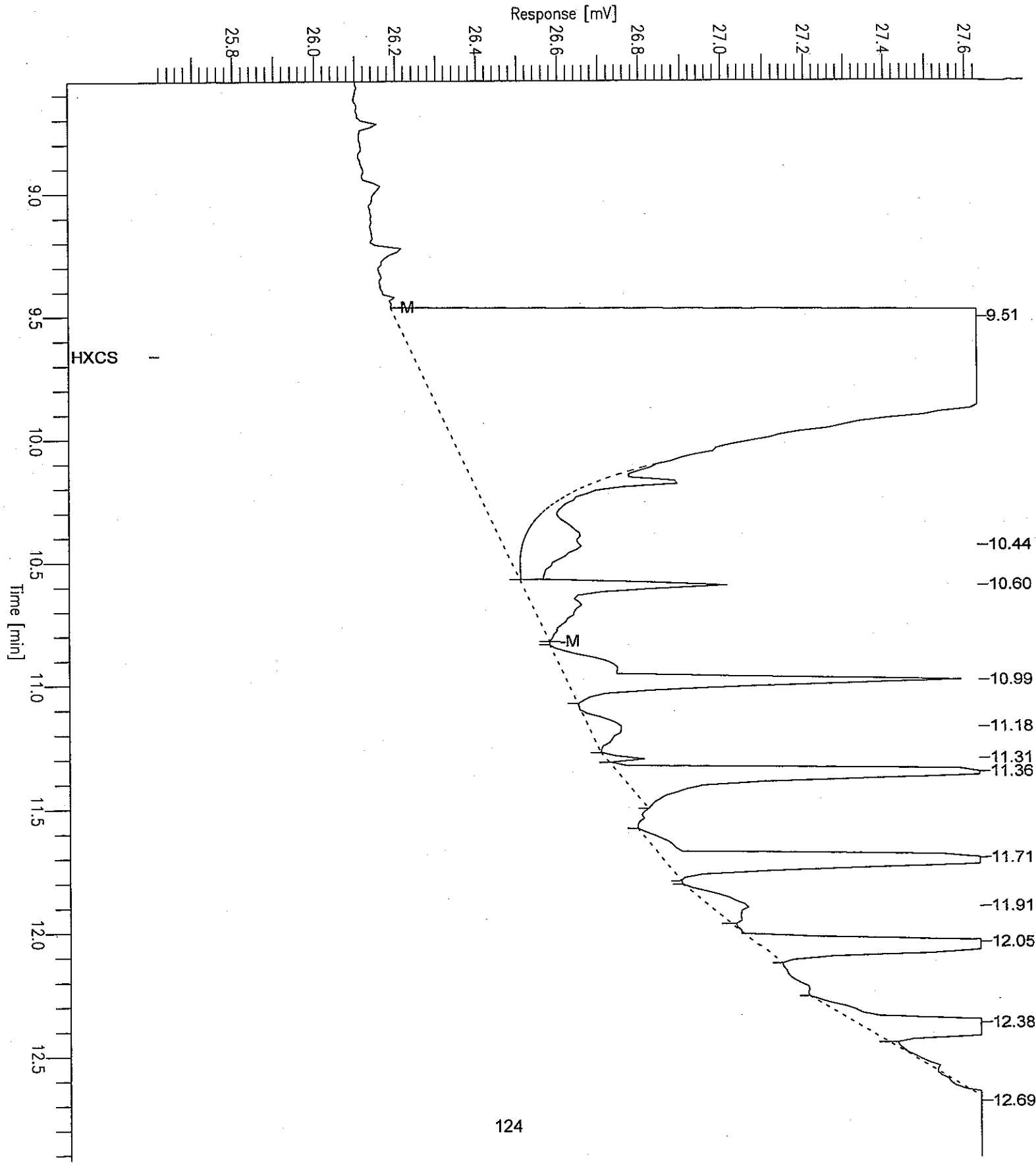
Analyzed By: mmo 12/1/04 Reviewed By: mcs 12/1/04

Report stored in ASCII file: G:\GC11\CHA\334A057Q.TX0

Chromatogram

Sample Name : ical,04ws2042,hex5
FileName : G:\GC11\CHA\334A057.RAW
Method :
Start Time : 8.55 min End Time : 12.92 min
Scale Factor: 0.0 Plot Offset: 26 mV

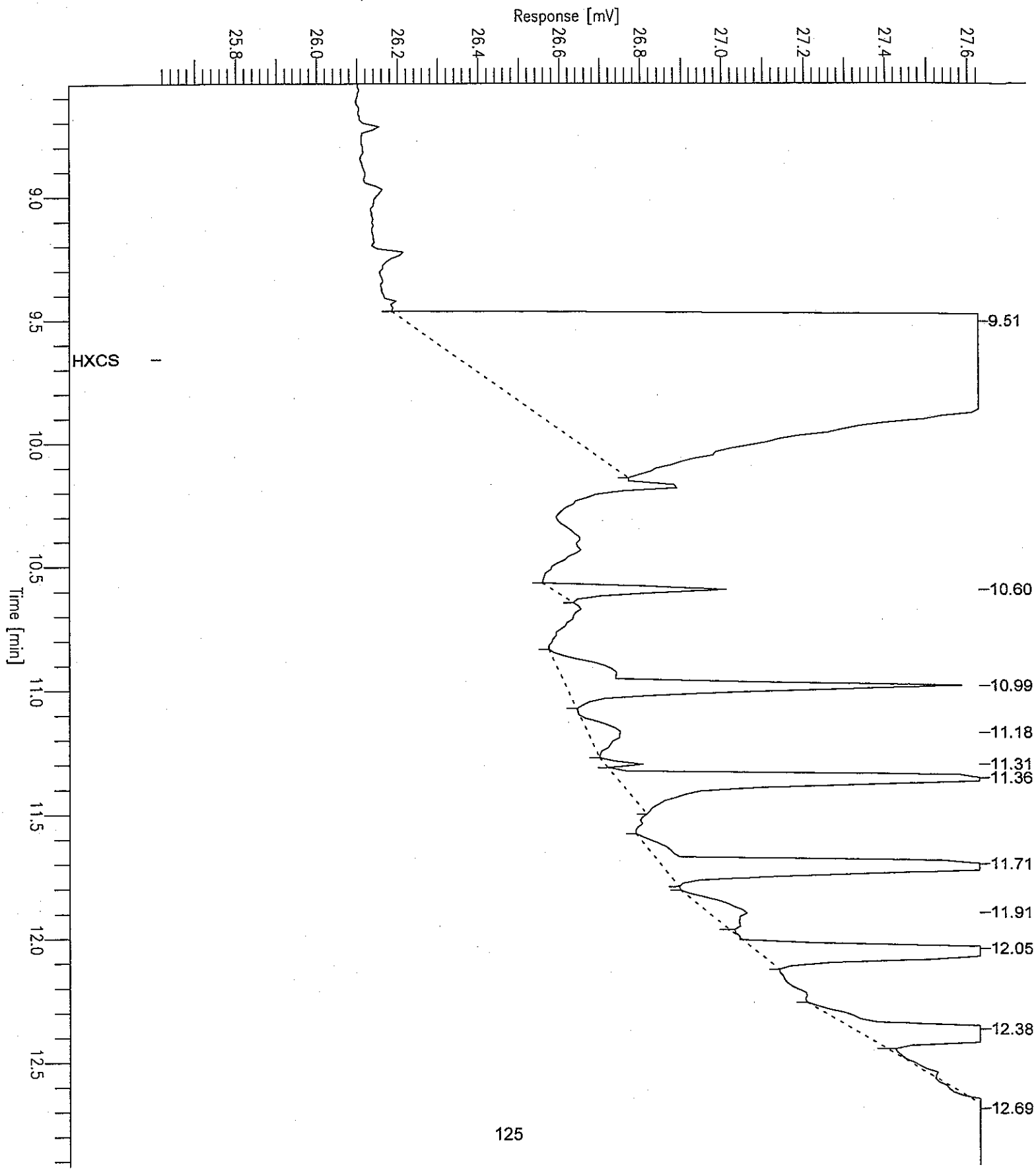
Sample #: 5mg/L
Date : 12/1/04 10:53 AM
Time of Injection: 11/30/04 07:21 PM
Low Point : 25.62 mV High Point : 27.62 mV
Plot Scale: 2.0 mV



Chromatogram

Sample Name : ical,04ws2042,hex5
FileName : G:\GC11\CHA\334A057.RAW
Method :
Start Time : 8.59 min End Time : 12.92 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #: 5mg/L
Date : 12/1/04 10:54 AM
Time of Injection: 11/30/04 07:21 PM
Low Point : 25.62 mV High Point : 27.62 mV
Plot Scale: 2.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 10:47 AM
Sample Name : ical,04ws2042,hex5
Data File : G:\GC11\CHA\334A057.RAW Date: 11/30/04 07:21 PM
Sequence File: G:\GC11\334.SEQ Cycle: 57 Channel : A
Instrument : GC11 Rack/Vial: 0/57 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	127601	4.81	4.8070			9.509	9.6141

CURTIS & TOMPKINS,LTD. BERKELEY

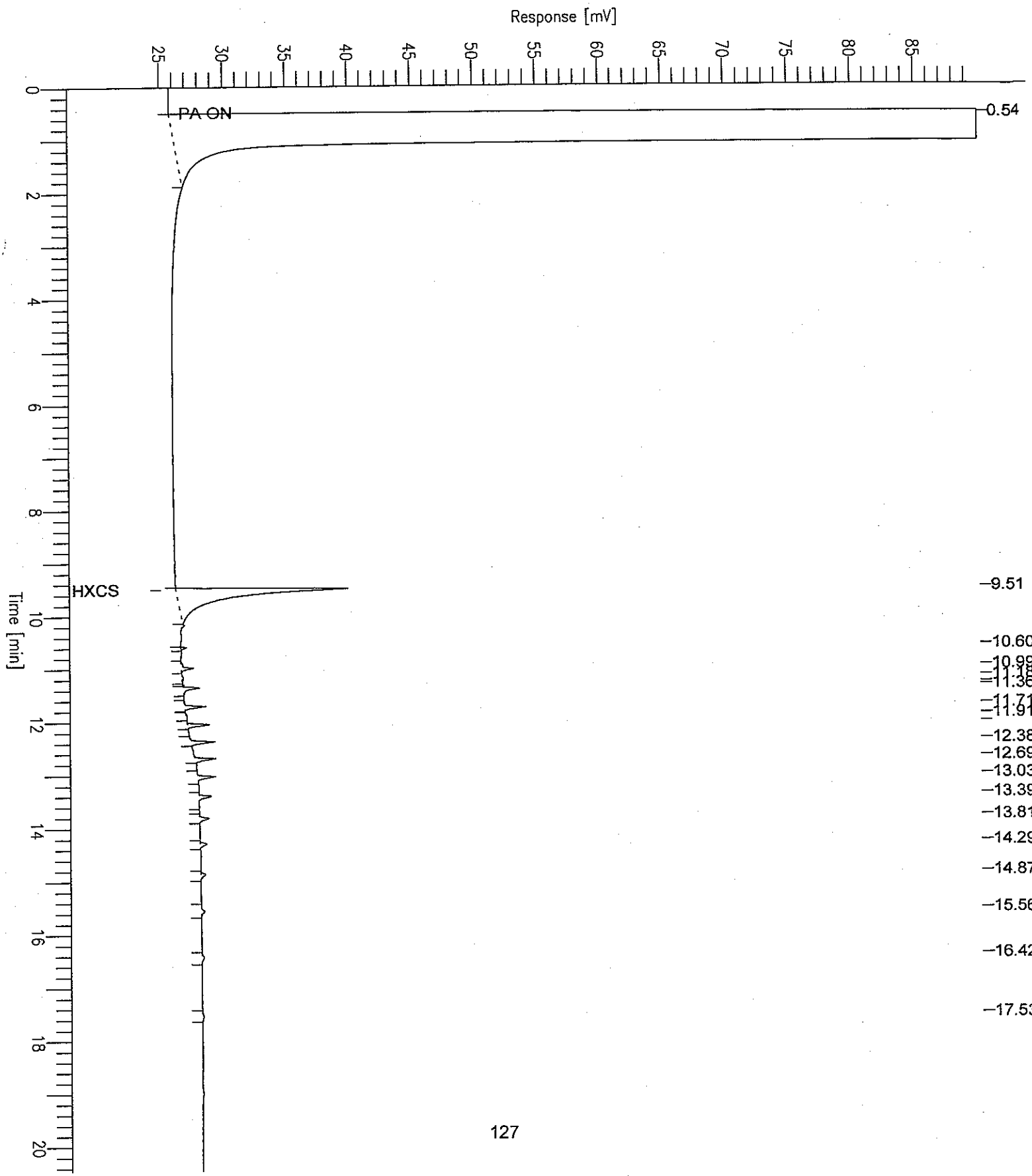
Analyzed By: mmp 11/01/04 Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\334A057.TX0

Chromatogram

Sample Name : ical,04ws2042,hex5
FileName : G:\GC11\CHA\334A057.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 5mg/L
Date : 12/1/04 10:47 AM
Time of Injection: 11/30/04 07:21 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 10:54 AM
Sample Name : ical,04ws2043,hex10
Data File : G:\GC11\CHA\334A058.RAW Date: 11/30/04 07:50 PM
Sequence File: G:\GC11\334.SEQ Cycle: 58 Channel : A
Instrument : GC11 Rack/Vial: 0/58 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	265517	10.00	10.0027			9.456	20.0054

CURTIS & TOMPKINS,LTD. BERKELEY

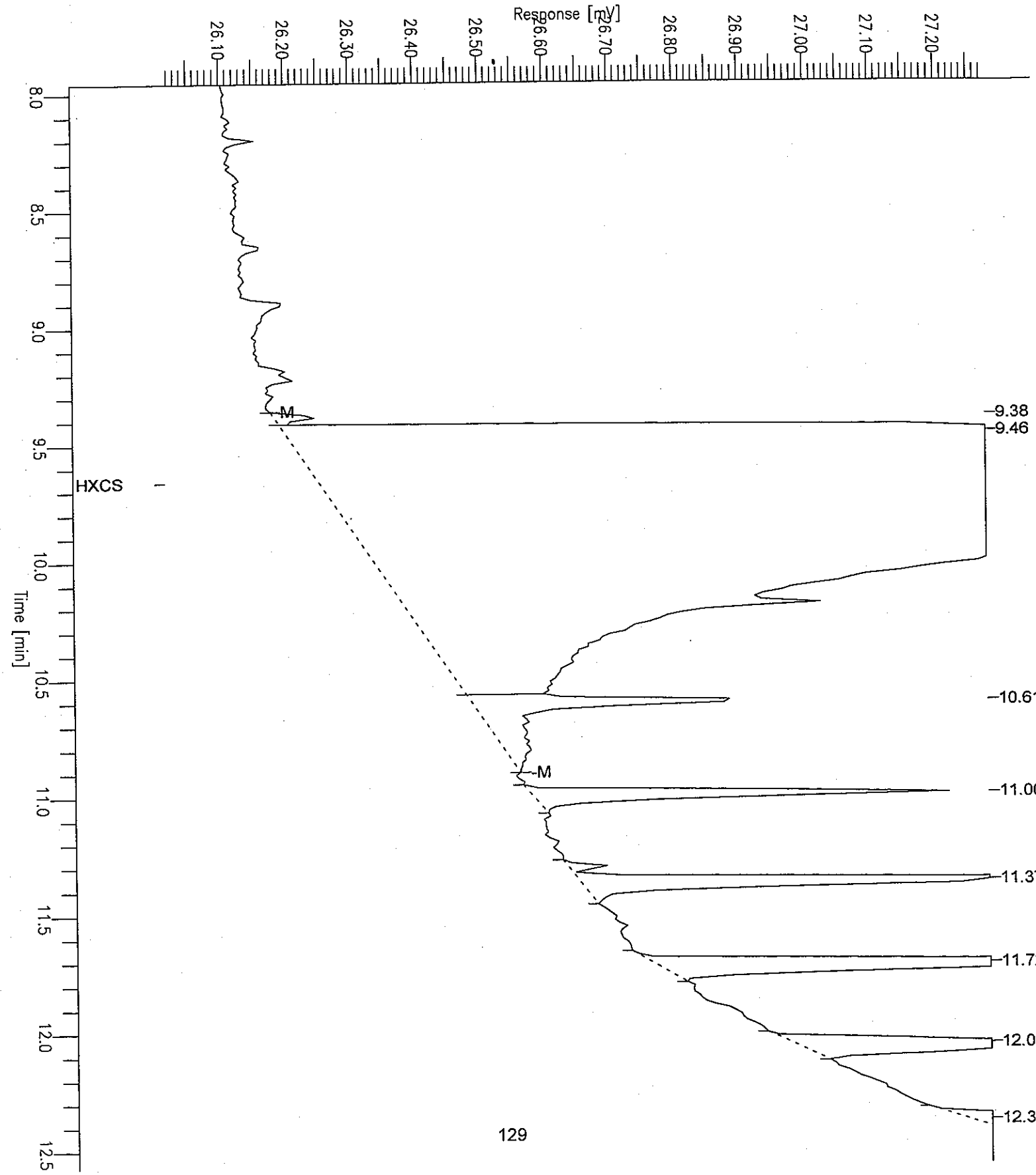
Analyzed By: mmp 12/01/04 Reviewed By: mcw 12/1/04

Report stored in ASCII file: G:\GC11\CHA\334A058Q.TX0

Chromatogram

Sample Name : ical,04ws2043,hex10
FileName : G:\GC11\CHA\334A058.RAW
Method :
Start Time : 7.96 min End Time : 12.57 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #: 10mg/L
Date : 12/1/04 10:54 AM
Time of Injection: 11/30/04 07:50 PM
Low Point : 26.01 mV High Point : 27.27 mV
Plot Scale: 1.3 mV



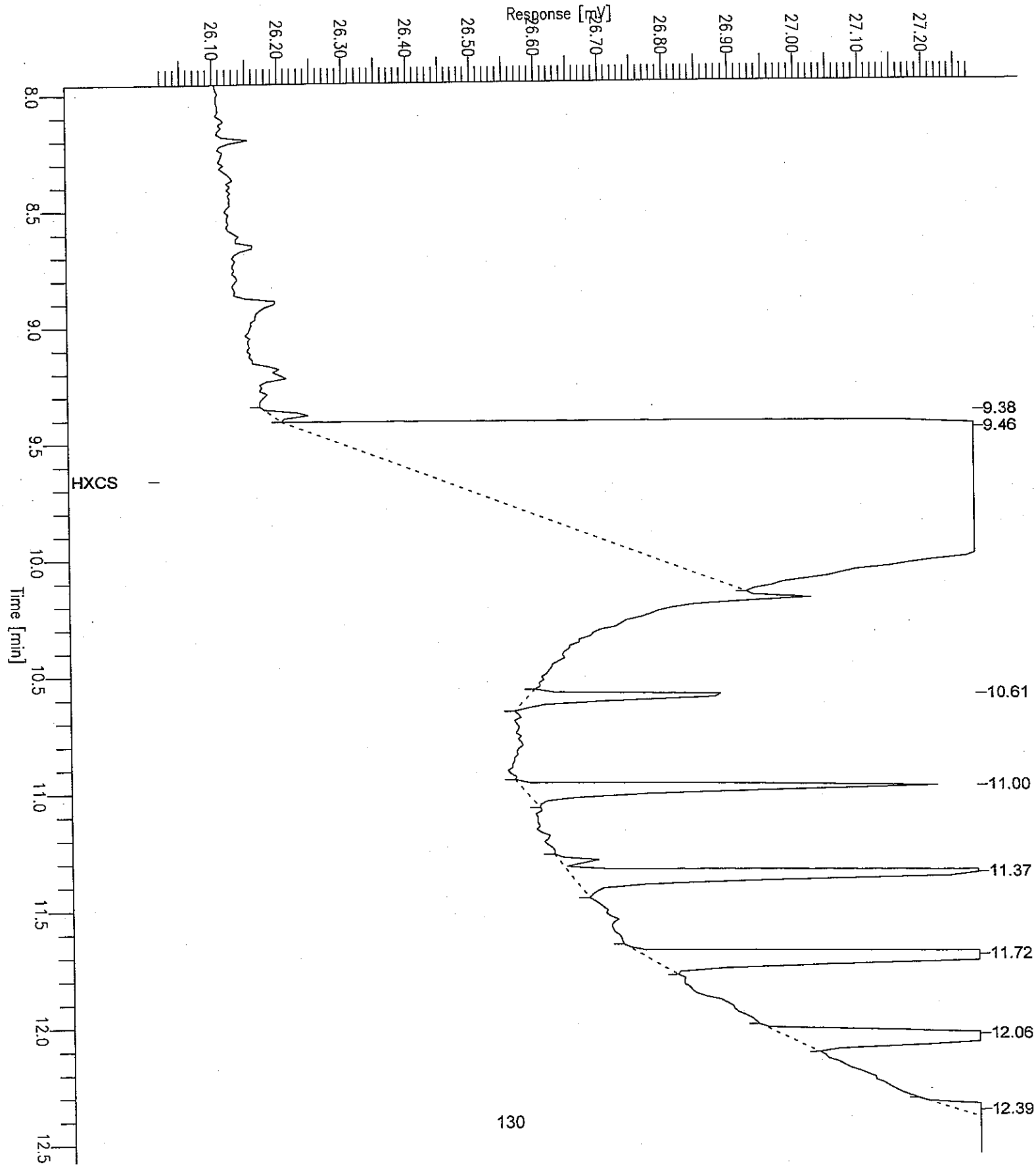
Chromatogram

Sample Name : ical,04ws2043,hex10
FileName : G:\GC11\CHA\334A058.RAW
Method :
Start Time : 7.96 min
Scale Factor: 0.0

End Time : 12.57 min
Plot Offset: 26 mV

Sample #: 10mg/L
Date : 12/1/04 10:54 AM
Time of Injection: 11/30/04 07:50 PM
Low Point : 26.01 mV
Plot Scale: 1.3 mV

High Point : 27.27 mV



Software Version: 4.1<2F12>
Date: 12/1/04 10:47 AM
Sample Name : ical,04ws2043,hex10
Data File : G:\GC11\CHA\334A058.RAW Date: 11/30/04 07:50 PM
Sequence File: G:\GC11\334.SEQ Cycle: 58 Channel : A
Instrument : GC11 Rack/Vial: 0/58 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	246187	9.27	9.2745			9.456	18.5489

CURTIS & TOMPKINS,LTD. BERKELEY

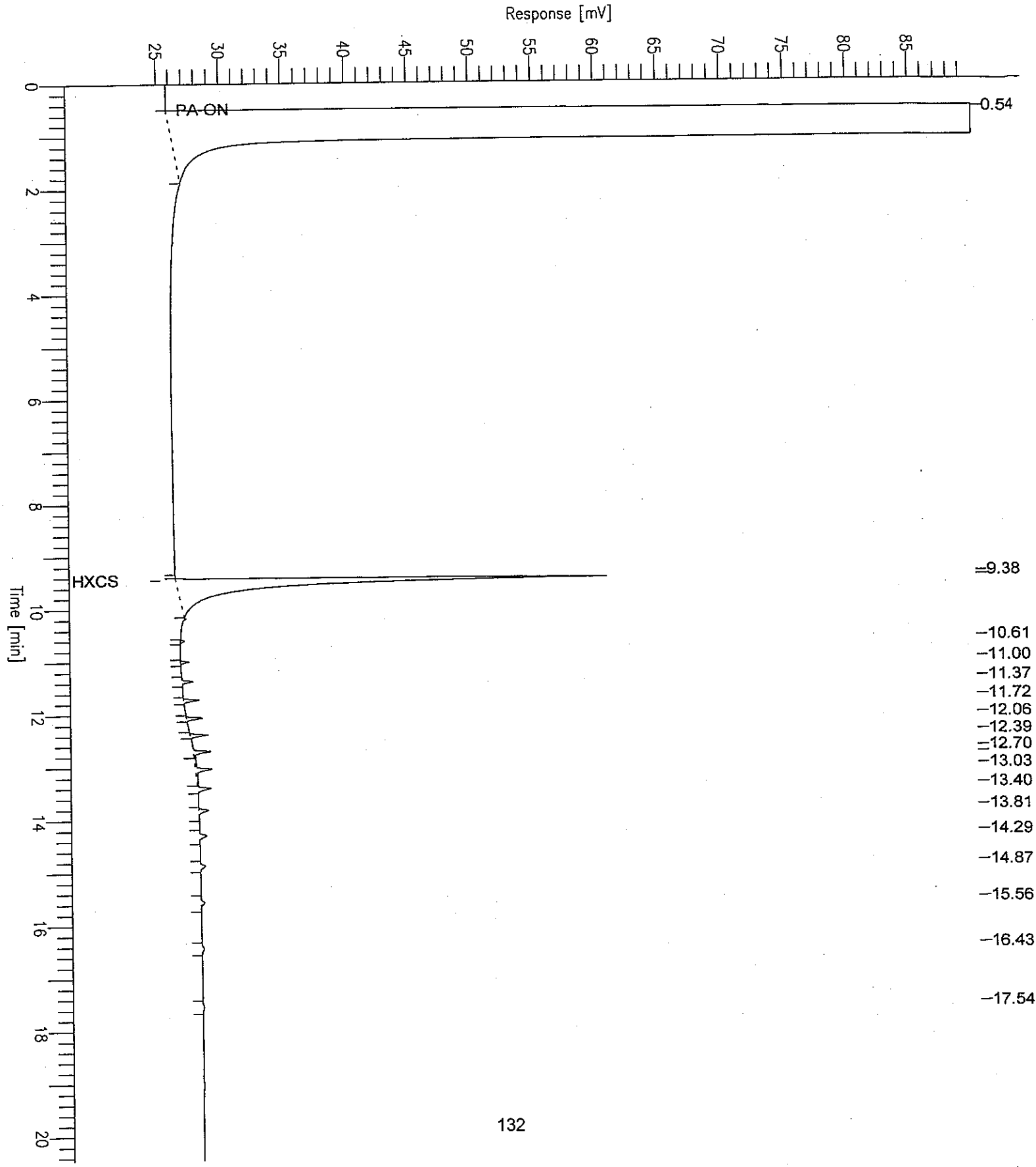
Analyzed By: mmm 12/01/04 Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\334A058.TX0

Chromatogram

Sample Name : ical,04ws2043,hex10
FileName : G:\GC11\CHA\334A058.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L
Date : 12/1/04 10:47 AM
Time of Injection: 11/30/04 07:50 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 10:47 AM
Sample Name : ical,04ws2044,hex25
Data File : G:\GC11\CHA\334A059.RAW Date: 11/30/04 08:20 PM
Sequence File: G:\GC11\334.SEQ Cycle: 59 Channel : A
Instrument : GC11 Rack/Vial: 0/59 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	664772	25.04	25.0436			9.402	50.0872

CURTIS & TOMPKINS,LTD. BERKELEY

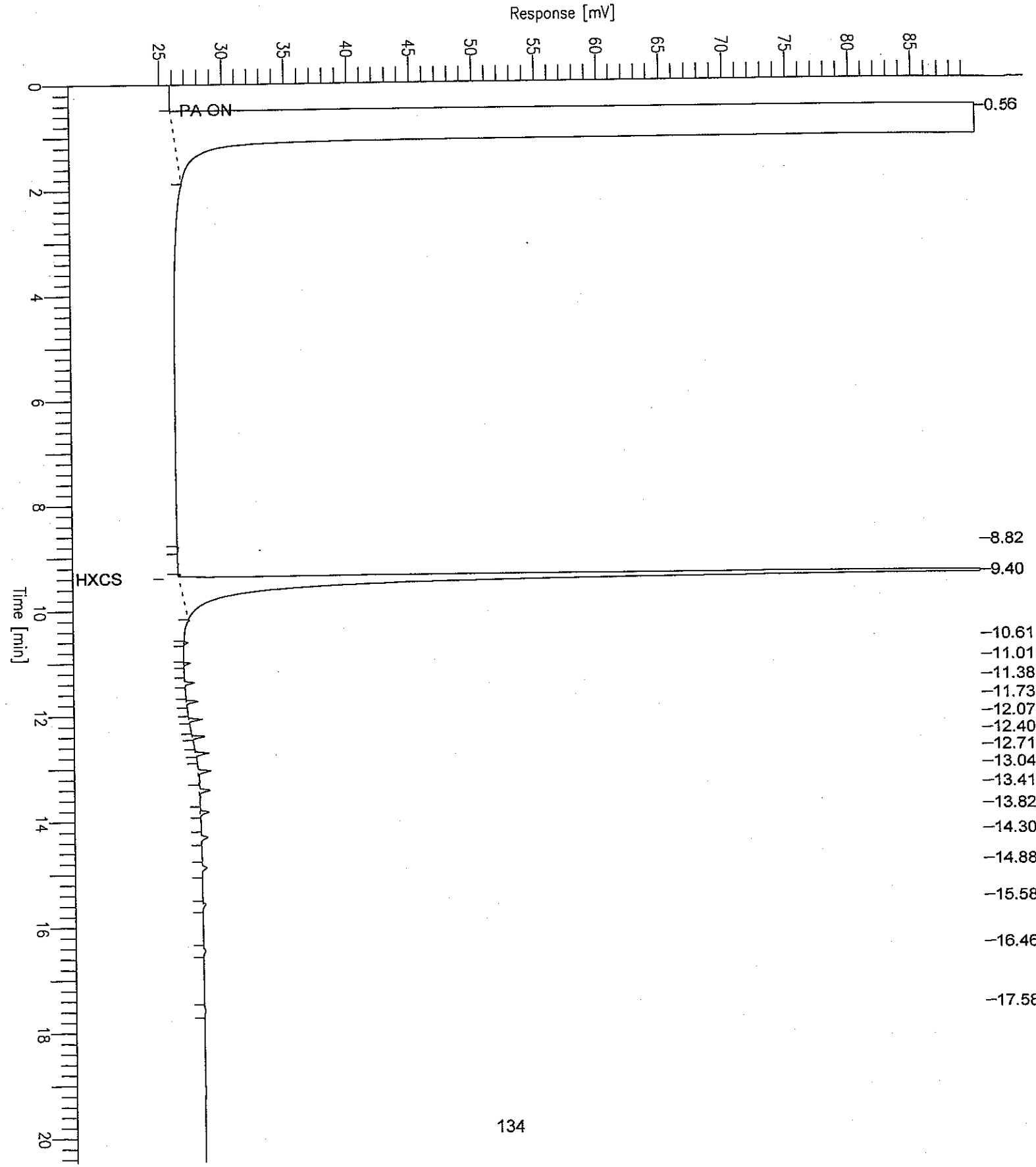
Analyzed By: mme 12/2/04 Reviewed By: mcs 12/1/04

Report stored in ASCII file: G:\GC11\CHA\334A059.TX0

Chromatogram

Sample Name : ical,04ws2044,hex25
FileName : G:\GC11\CHA\334A059.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 25mg/L
Date : 12/1/04 10:47 AM
Time of Injection: 11/30/04 08:20 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 10:47 AM
Sample Name : ical,04ws2045,hex50
Data File : G:\GC11\CHA\334A060.RAW Date: 11/30/04 08:49 PM
Sequence File: G:\GC11\334.SEQ Cycle: 60 Channel : A
Instrument : GC11 Rack/Vial: 0/60 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1374862	51.79	51.7944			9.398	103.5888

CURTIS & TOMPKINS,LTD. BERKELEY

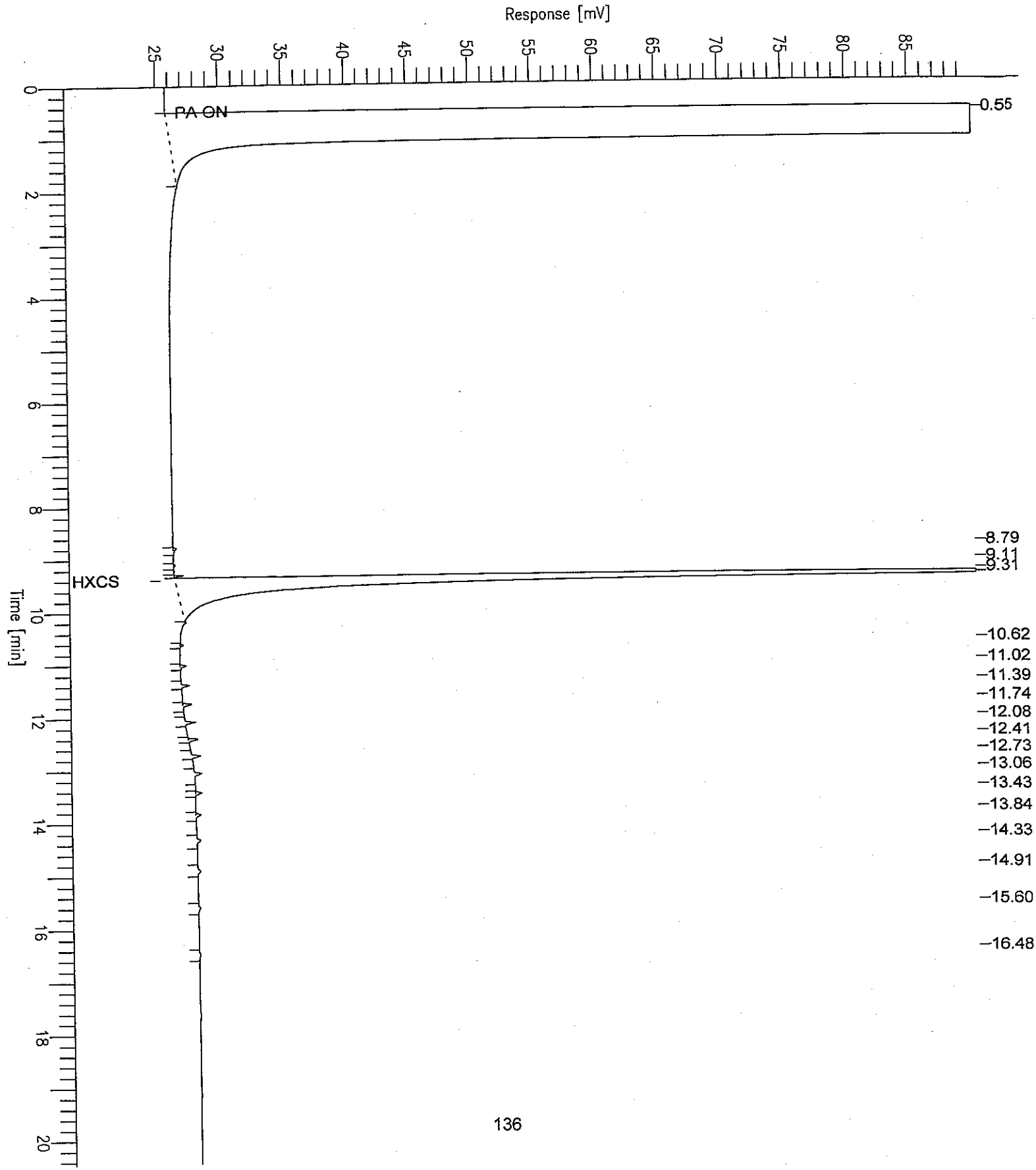
Analyzed By: mm 12/01/04 Reviewed By: mcu 12/1/04

Report stored in ASCII file: G:\GC11\CHA\334A060.TX0

Chromatogram

Sample Name : ical,04ws2045,hex50
FileName : G:\GC11\CHA\334A060.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L
Date : 12/1/04 10:47 AM
Time of Injection: 11/30/04 08:49 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 10:47 AM
Sample Name : ical,04ws2046,hex75
Data File : G:\GC11\CHA\334A061.RAW Date: 11/30/04 09:19 PM
Sequence File: G:\GC11\334.SEQ Cycle: 61 Channel : A
Instrument : GC11 Rack/Vial: 0/61 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	2159904	81.37	81.3689			9.411	162.7377

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: mme 12/01/04 Reviewed By: mcs 12/1/04

Report stored in ASCII file: G:\GC11\CHA\334A061.TX0

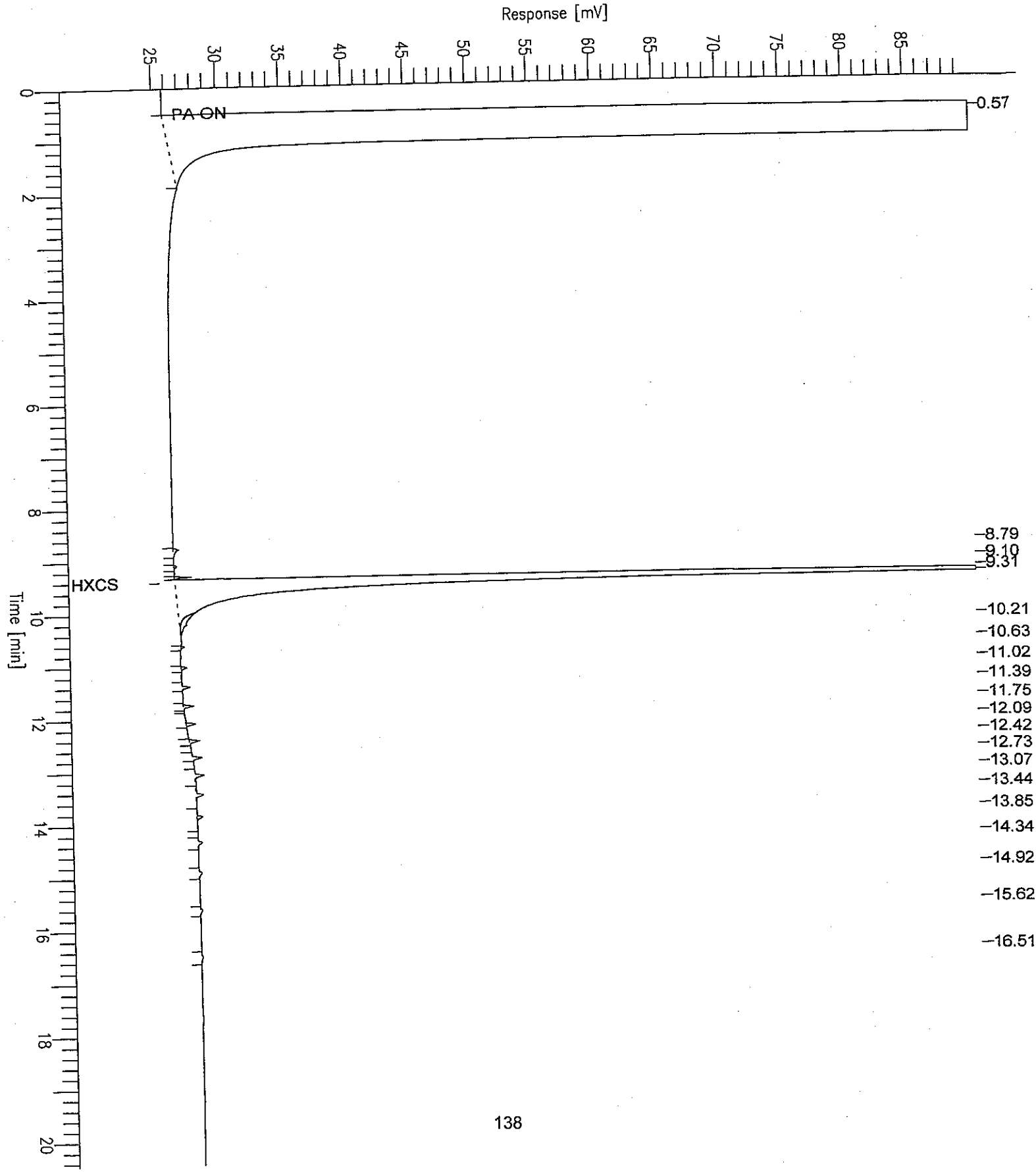
Chromatogram

Sample Name : ical,04ws2046,hex75
FileName : G:\GC11\CHA\334A061.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 75mg/L
Date : 12/1/04 10:47 AM
Time of Injection: 11/30/04 09:19 PM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



Software Version: 4.1<2F12>
Sample Name : C10-16
Sample Number:
Operator :

Time : 11/17/04 11:01 AM
Study : s

Instrument : GC13
AutoSampler : HP7673A
Rack/Vial : 0/3

Channel : B A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 11/17/04 10:39 AM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC13\CHB\322B003.RAW
Result File : C:\WINDOWS\TEMP\~RST1F1B.RST
Inst Method : G:\GC13\20MINB from C:\WINDOWS\TEMP\~RST1F1B.RST
Proc Method : G:\GC13\BTEH317S.MTH
Calib Method : G:\GC13\BTEH317S.MTH
Sequence File : G:\GC13\322.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
C10 1	2.284	404232.18	75851.11	10.33	10.33	BB	5.33
0	2.392	0.00	0.00	0.00	0.00		------
2	3.428	2600.75	1298.90	0.07	0.07	BV	2.00
3	3.485	879734.83	314519.01	22.49	22.49	VB	2.80
0	3.597	0.00	0.00	0.00	0.00		------
4	4.550	5201.65	2479.03	0.13	0.13	BV	2.10
5	4.630	1166890.36	676533.44	29.83	29.83	VB	1.72
6	5.412	85.38	56.69	0.00	0.00	BB	1.51
7	5.506	2353.30	1035.80	0.06	0.06	BV	2.27
8	5.563	6422.88	3672.21	0.16	0.16	VV	1.75
9	5.658	1444471.72	744733.20	36.92	36.92	VB	1.94
0	5.777	0.00	0.00	0.00	0.00		------
0	7.538	0.00	0.00	0.00	0.00		------
0	8.303	0.00	0.00	0.00	0.00		------
0	9.008	0.00	0.00	0.00	0.00		------
10	9.811	416.27	88.08	0.01	0.01	BB	4.73
0	10.262	0.00	0.00	0.00	0.00		------

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area BL [%]	Area/Height [s]
0	11.355	0.00	0.00	0.00	0.00	------
0	12.305	0.00	0.00	0.00	0.00	------
0	13.386	0.00	0.00	0.00	0.00	------
0	15.010	0.00	0.00	0.00	0.00	------
		3912409.32	1.82e+06	100.00	100.00	

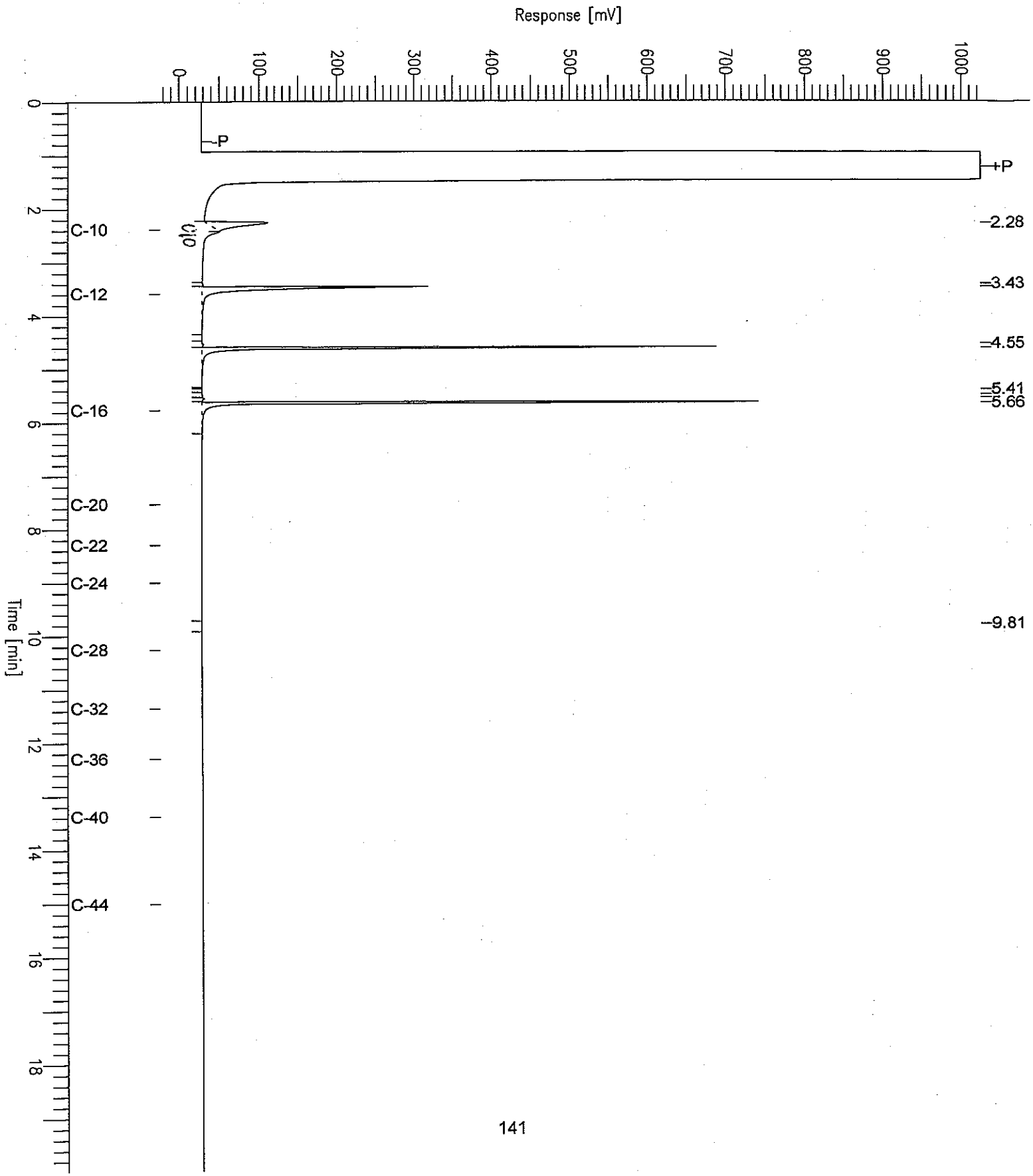
Missing Component Report

Component	Expected Retention (Calibration File)
C-10	2.392
C-12	3.597
C-16	5.777
C-20	7.538
C-22	8.303
C-24	9.008
C-28	10.262
C-32	11.355
C-36	12.305
C-40	13.386
C-44	15.010

Chromatogram

Sample Name : C10-16
FileName : G:\GC13\CHB\322B003.RAW
Method : BTEH317S.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -25 mV

Sample #:
Date : 11/17/04 11:01 AM
Time of Injection: 11/17/04 10:39 AM
Low Point : -24.57 mV High Point : 1024.00 mV
Plot Scale: 1048.6 mV



Software Version: 4.1<2F12>
Sample Name : C12-60
Sample Number:
Operator :

Time : 11/17/04 11:38 AM
Study : s

Instrument : GC13
AutoSampler : HP7673A
Rack/Vial : 0/4

Channel : B A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 11/17/04 11:07 AM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC13\CHB\322B004.RAW
Result File : C:\WINDOWS\TEMP\~RST1F1B.RST
Inst Method : G:\GC13\20MINB from C:\WINDOWS\TEMP\~RST1F1B.RST
Proc Method : G:\GC13\BTEH317S.MTH
Calib Method : G:\GC13\BTEH317S.MTH
Sequence File : G:\GC13\322.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

	Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
	0	2.392	0.00	0.00	0.00	0.00		------
	1	3.396	11040.73	3711.74	0.04	0.04	BV	2.97
C12	2	3.481	1903295.17	805831.30	7.59	7.59	VB	2.36
	0	3.597	0.00	0.00	0.00	0.00		------
	3	4.364	579.74	174.96	0.00	0.00	BV	3.31
	4	4.486	1947.27	870.36	0.01	0.01	VV	2.24
	5	4.535	9602.90	4660.21	0.04	0.04	VV	2.06
C14	6	4.635	1948247.99	1.03e+06	7.77	7.77	VB	1.90
	7	5.376	240.72	70.03	1e-03	9.60e-04	BB	3.44
	8	5.561	7138.42	3605.24	0.03	0.03	BV	1.98
C16	9	5.662	2096322.46	1.05e+06	8.36	8.36	VB	1.99
	0	5.777	0.00	0.00	0.00	0.00		------
	10	6.376	6875.28	1873.44	0.03	0.03	BV	3.67
	11	6.465	12398.20	5890.68	0.05	0.05	VV	2.10
C18	12	6.581	2217994.67	1.04e+06	8.85	8.85	VB	2.14
	13	6.985	1035.18	250.49	0.00	0.00	BB	4.13
	14	7.223	1153.53	416.21	0.00	0.00	BB	2.77

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
15	7.314	744.95	390.38	0.00	0.00	BV	1.91
2016	7.410	2313974.83	1.01e+06	9.23	9.23	VB	2.29
0	7.538	0.00	0.00	0.00	0.00		------
17	7.856	498.21	239.82	0.00	0.00	BB	2.08
18	7.975	548.77	291.21	0.00	0.00	BB	1.88
19	8.068	995.33	768.46	0.00	0.00	BV	1.30
2220	8.170	2401981.98	1.01e+06	9.58	9.58	VB	2.39
0	8.303	0.00	0.00	0.00	0.00		------
21	8.539	1583.57	701.88	0.01	0.01	BB	2.26
22	8.662	664.57	324.18	0.00	0.00	BB	2.05
23	8.760	3203.15	2212.15	0.01	0.01	BV	1.45
2424	8.868	2415987.51	874924.20	9.64	9.64	VB	2.76
0	9.008	0.00	0.00	0.00	0.00		------
25	9.190	2313.19	984.75	0.01	0.01	BB	2.35
26	9.409	2020.17	1171.75	0.01	0.01	BV	1.72
2627	9.517	2376835.12	961146.15	9.48	9.48	VB	2.47
28	9.797	5688.46	2965.03	0.02	0.02	BB	1.92
29	10.012	1858.19	1161.99	0.01	0.01	BV	1.60
2830	10.117	2217078.04	891223.13	8.84	8.84	VB	2.49
0	10.262	0.00	0.00	0.00	0.00		------
31	10.371	6224.04	3641.14	0.02	0.02	BB	1.71
32	10.573	4482.70	2948.21	0.02	0.02	BV	1.52
3033	10.677	2012577.52	804579.45	8.03	8.03	VB	2.50
34	10.907	7146.54	4928.49	0.03	0.03	BB	1.45
3235	11.197	1624276.90	697909.41	6.48	6.48	BE	2.33
36	11.291	570.20	262.70	0.00	0.00	EB	2.17
37	11.347	152.12	80.78	6e-04	6.07e-04	BV	1.88
0	11.355	0.00	0.00	0.00	0.00		------
38	11.416	5710.30	3801.68	0.02	0.02	VB	1.50
39	11.652	45768.89	34819.08	0.18	0.18	BV	1.31
40	11.759	442.96	203.55	0.00	0.00	VV	2.18
41	11.892	3269.36	2066.11	0.01	0.01	VV	1.58
42	12.056	3557.96	1599.36	0.01	0.01	VV	2.22
4343	12.138	670814.82	314741.42	2.68	2.68	VV	2.13
44	12.224	2531.99	1184.11	0.01	0.01	VV	2.14
0	12.305	0.00	0.00	0.00	0.00		------
45	12.372	318.46	182.66	0.00	0.00	VV	1.74
46	12.450	172.21	90.35	7e-04	6.87e-04	VB	1.91
47	12.603	4665.02	2374.69	0.02	0.02	BB	1.96
48	12.868	484.62	239.76	0.00	0.00	BB	2.02
49	13.067	484.62	169.47	0.00	0.00	BV	2.86
5050	13.167	348424.49	163436.92	1.39	1.39	VV	2.13
51	13.270	7064.92	3662.35	0.03	0.03	VB	1.93
0	13.386	0.00	0.00	0.00	0.00		------
52	13.469	826.89	383.04	0.00	0.00	BV	2.16
53	13.635	480.45	182.33	0.00	0.00	VB	2.64
54	13.808	2397.74	1075.82	0.01	0.01	BB	2.23
55	14.190	1844.76	627.60	0.01	0.01	BB	2.94
56	14.509	713.67	220.58	0.00	0.00	BV	3.24

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area BL [%]		Area/Height [s]
44 57	14.663	206623.47	76657.98	0.82	0.82	VV	2.70
58	14.751	558.47	254.62	0.00	0.00	VB	2.19
59	15.163	936.09	292.82	0.00	0.00	BB	3.20
60	15.438	546.86	204.77	0.00	0.00	BB	2.67
61	15.744	914.22	249.48	0.00	0.00	BB	3.66
62	16.274	507.47	151.99	0.00	0.00	BV	3.34
63	16.418	886.59	229.53	0.00	0.00	VB	3.86
64	17.205	4448.29	1087.34	0.02	0.02	BV	4.09
65	17.360	357.78	95.18	0.00	0.00	VB	3.76
66	18.124	2112.83	437.25	0.01	0.01	BB	4.83
67	19.262	130583.56	21568.24	0.52	0.52	BB	6.05
		25067728.09	1.08e+07	100.00	100.00		

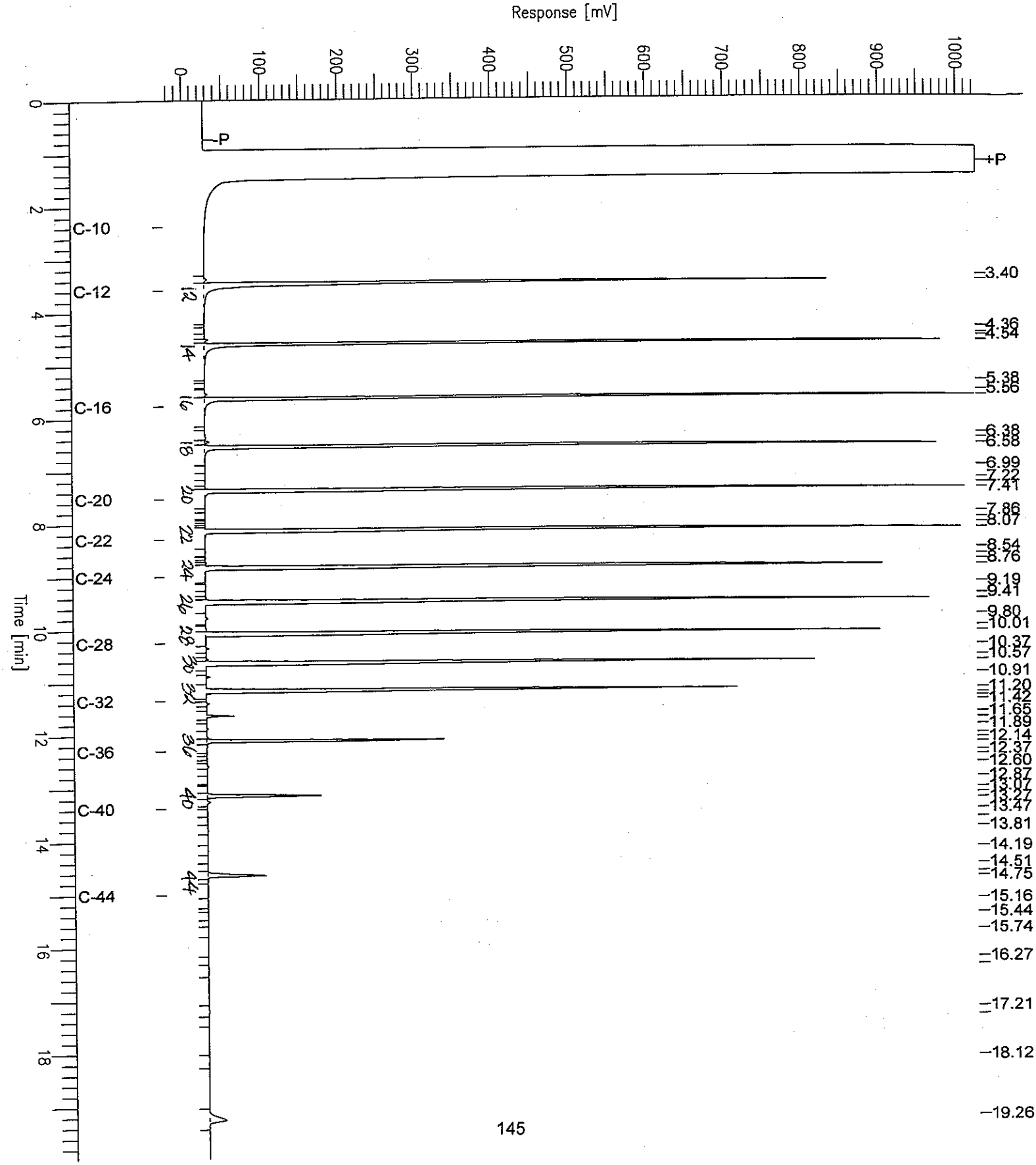
Missing Component Report

Component	Expected Retention (Calibration File)
C-10	2.392
C-12	3.597
C-16	5.777
C-20	7.538
C-22	8.303
C-24	9.008
C-28	10.262
C-32	11.355
C-36	12.305
C-40	13.386

Chromatogram

Sample Name : C12-60
FileName : G:\GC13\CHB\322B004.RAW
Method : BTEH317S.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -25 mV

Sample #:
Date : 11/17/04 11:45 AM
Time of Injection: 11/17/04 11:07 AM
Low Point : -24.74 mV High Point : 1024.00 mV
Plot Scale: 1048.7 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By:
Calnum: 144283164001 Name: Diesel Type: (normal) Date: 14-JUL-2004 15:24 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b002	144283164002	dsl	14-JUL-2004 15:24	04WS1223
2	196b003	144283164003	dsl	14-JUL-2004 15:52	04WS1222
3	196b004	144283164004	dsl	14-JUL-2004 16:19	04WS1221
4	196b005	144283164005	dsl	14-JUL-2004 16:47	04WS1220
5	196b006	144283164006	dsl	14-JUL-2004 17:15	04WS1219
6	196b007	144283164007	dsl	14-JUL-2004 17:43	04WS1218
7	196b008	144283164008	dsl	14-JUL-2004 18:11	04WS1217

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	18229	20894	21463	23037	23389	23428	23106	AVRG	R		4.559E-5		mg/L	21935	9	0.995	20	
Diesel C10-C24	18387	21049	21651	23174	23575	23613	23297	AVRG	R		4.524E-5		mg/L	22106	9	0.995	20	
Diesel C10-C28	18468	21062	21681	23227	23604	23657	23347	AVRG	R		4.515E-5		mg/L	22149	9	0.995	20	
Diesel C10-C20	18229	20171	20991	22394	22733	22787	22462	AVRG	R		4.674E-5		mg/L	21395	8	0.995	20	
Diesel C12-C22	14264	17510	18037	19369	19712	20569	20040	AVRG	R		5.405E-5		mg/L	18500	12	0.995	20	
Diesel C12-C24	14421	17664	18224	19506	19898	20754	20231	AVRG	R		5.356E-5		mg/L	18671	12	0.995	20	
Diesel C12-C28	14502	17677	18254	19559	19927	20798	20281	AVRG	R		5.344E-5		mg/L	18714	12	0.995	20	
Diesel C12-C36	16806	17830	18397	19616	19950	20808	20288	AVRG	R		5.236E-5		mg/L	19099	8	0.995	20	

CJV, 7/15/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/15/04 09:50 AM
Sample Name : ical,04ws1223,dsl
Data File : G:\GC13\CHB\196B002.RAW Date: 7/14/04 03:24 PM
Sequence File: G:\GC13\196.SEQ Cycle: 2 Channel : B
Instrument : GC13 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		123891	9.86	1.0000	1.00	9.8574
JP8:10-16	4.468		123891	8.74	1.0000	1.00	8.7375
JP5:10-16	4.468		123891	7.02	1.0000	1.00	7.0188
KER:10-16	4.468		123891	3.69	1.0000	1.00	3.6943
DSL:10-20	5.361		182294	12.70	1.0000	1.00	12.7007
DSL:10-22	5.748		182294	12.37	1.0000	1.00	12.3708
DSL:10-24	6.105		183868	12.39	1.0000	1.00	12.3945
GAIAFP:10-24	6.105		183868	1.84e-07	1.0000	1.00	1.8387e-07
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		142636	11.65	1.0000	1.00	11.6456
TROIL:12-22	6.403		142636	1.43e-07	1.0000	1.00	1.4264e-07
DSL:10-28	6.740		184676	12.43	1.0000	1.00	12.4263
DSL:12-24	6.760		144210	11.68	1.0000	1.00	11.6799
DSL:12-28	7.396		145018	11.72	1.0000	1.00	11.7196
DSL:10-36	7.820		207717	13.94	1.0000	1.00	13.9356
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		168059	1.68e-08	1.0000	1.00	1.6806e-08
CRUDE:10-40	8.500		249520	2.50e-07	1.0000	1.00	2.4952e-07
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		209862	31.21	1.0000	1.00	31.2112
HYFL:12-40	9.155		209862	11.70	1.0000	1.00	11.7018
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		4013	0.32	1.0000	1.00	0.3198
MO:20-36	10.482		25423	1.63	1.0000	1.00	1.6314
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		25423	1.80	1.0000	1.00	1.7983
HYFL:24-36	11.226		23849	1.78	1.0000	1.00	1.7846
TPHHF:24-36	11.226		23849	2.38e-08	1.0000	1.00	2.3849e-08
MO:24-36	11.226		23849	2.08	1.0000	1.00	2.0833
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.544		0	0.00	1.0000	1.00	0.0000
				178.71			

CURTIS & TOMPKINS,LTD. BERKELEY

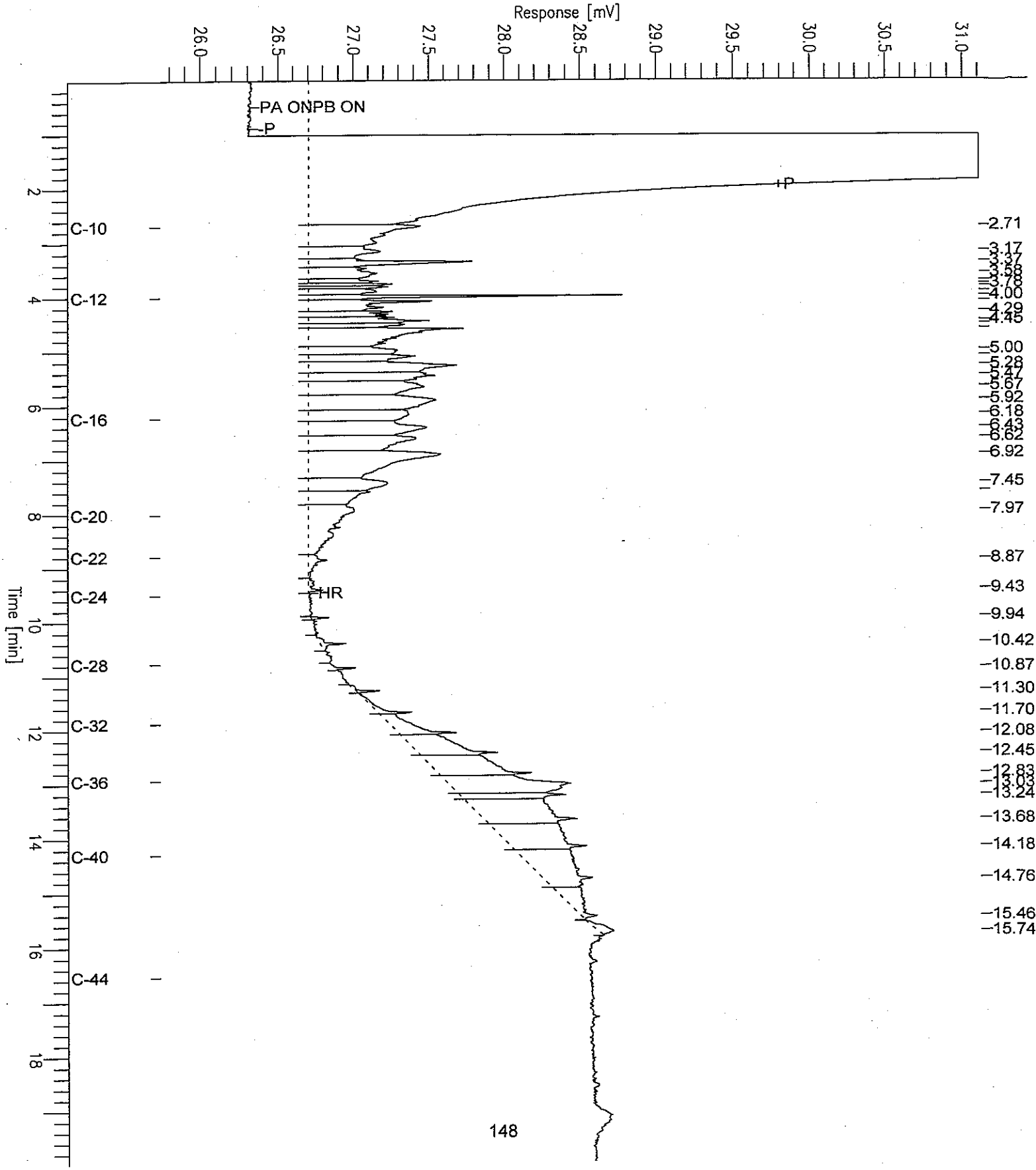
Analyzed By: LGV, 7/15/04 Reviewed By: mmp 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B002P.TX0

Chromatogram

Sample Name : ical,04ws1223,dsl
FileName : G:\GC13\CHB\196B002.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #: 10mg/L
Date : 7/15/04 09:50 AM
Time of Injection: 7/14/04 03:24 PM
Low Point : 25.74 mV High Point : 31.11 mV
Plot Scale: 5.4 mV



Software Version: 4.1<2F12>
Date: 7/15/04 09:50 AM
Sample Name : ical,04ws1222,dsl
Data File : G:\GC13\CHB\196B003.RAW Date: 7/14/04 03:52 PM
Sequence File: G:\GC13\196.SEQ Cycle: 3 Channel : B
Instrument : GC13 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		1462563	116.37	1.0000	1.00	116.3694
JP8:10-16	4.468		1462563	103.15	1.0000	1.00	103.1484
JP5:10-16	4.468		1462563	82.86	1.0000	1.00	82.8586
KER:10-16	4.468		1462563	43.61	1.0000	1.00	43.6126
DSL:10-20	5.361		2017109	140.53	1.0000	1.00	140.5342
DSL:10-22	5.748		2089424	141.79	1.0000	1.00	141.7912
DSL:10-24	6.105		2104867	141.89	1.0000	1.00	141.8885
GAIAFP:10-24	6.105		2104867	2.10e-06	1.0000	1.00	2.1049e-06
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		1750966	142.96	1.0000	1.00	142.9579
TROIL:12-22	6.403		1750966	1.75e-06	1.0000	1.00	1.7510e-06
DSL:10-28	6.740		2106168	141.72	1.0000	1.00	141.7171
DSL:12-24	6.760		1766409	143.07	1.0000	1.00	143.0654
DSL:12-28	7.396		1767710	142.86	1.0000	1.00	142.8570
DSL:10-36	7.820		2121491	142.33	1.0000	1.00	142.3291
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		1783034	1.78e-07	1.0000	1.00	1.7830e-07
CRUDE:10-40	8.500		2138228	2.14e-06	1.0000	1.00	2.1382e-06
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		1799770	267.67	1.0000	1.00	267.6672
HYFL:12-40	9.155		1799770	100.35	1.0000	1.00	100.3547
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		18277	1.46	1.0000	1.00	1.4563
MO:20-36	10.482		104383	6.70	1.0000	1.00	6.6982
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		32067	2.27	1.0000	1.00	2.2684
HYFL:24-36	11.226		16625	1.24	1.0000	1.00	1.2440
TPHHF:24-36	11.226		16625	1.66e-08	1.0000	1.00	1.6625e-08
MO:24-36	11.226		16625	1.45	1.0000	1.00	1.4522
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.544		0	0.00	1.0000	1.00	0.0000
				1864.27			

CURTIS & TOMPKINS,LTD. BERKELEY

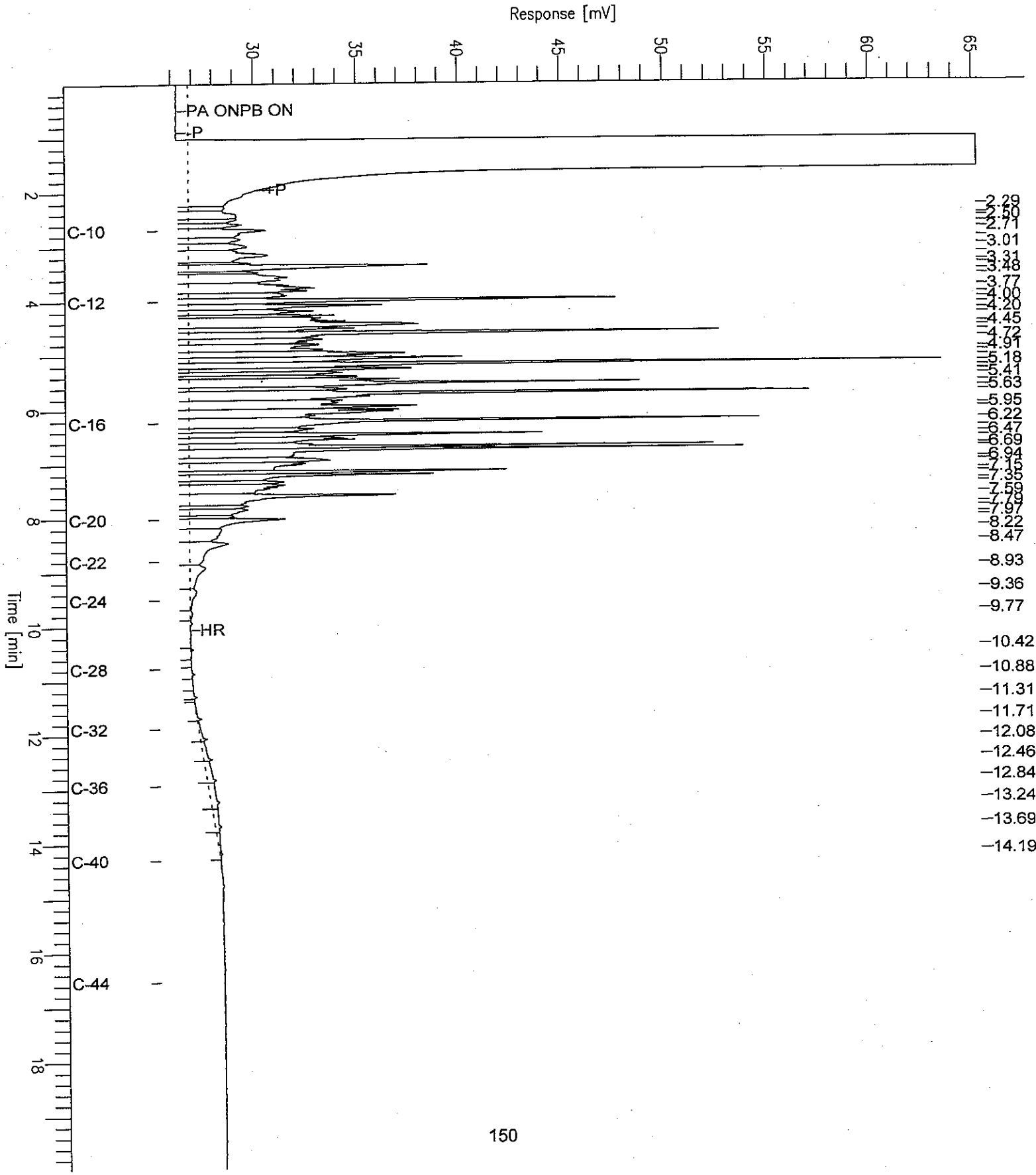
Analyzed By: 7/15/04 Reviewed By: mme 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B003P.TX0

Chromatogram

Sample Name : ical,04ws1222,dsl
FileName : G:\GC13\CHB\196B003.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 100mg/L
Date : 7/15/04 09:50 AM
Time of Injection: 7/14/04 03:52 PM
Low Point : 25.36 mV High Point : 65.23 mV
Plot Scale: 39.9 mV



Software Version: 4.1<2F12>
Date: 7/15/04 09:51 AM
Sample Name : ical,04ws1221,dsl
Data File ' : G:\GC13\CHB\196B004.RAW Date: 7/14/04 04:19 PM
Sequence File: G:\GC13\196.SEQ Cycle: 4 Channel : B
Instrument : GC13 Rack/Vial: 0/4 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		3832525	304.94	1.0000	1.00	304.9362
JP8:10-16	4.468		3832525	270.29	1.0000	1.00	270.2918
JP5:10-16	4.468		3832525	217.12	1.0000	1.00	217.1241
KER:10-16	4.468		3832525	114.28	1.0000	1.00	114.2832
DSL:10-20	5.361		5247684	365.61	1.0000	1.00	365.6119
DSL:10-22	5.748		5365756	364.13	1.0000	1.00	364.1277
DSL:10-24	6.105		5412637	364.86	1.0000	1.00	364.8644
GAIAFP:10-24	6.105		5412637	5.41e-06	1.0000	1.00	5.4126e-06
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		4509203	368.15	1.0000	1.00	368.1546
TROIL:12-22	6.403		4509203	4.51e-06	1.0000	1.00	4.5092e-06
DSL:10-28	6.740		5420129	364.70	1.0000	1.00	364.7027
DSL:12-24	6.760		4556084	369.01	1.0000	1.00	369.0075
DSL:12-28	7.396		4563576	368.80	1.0000	1.00	368.8042
DSL:10-36	7.820		5455882	366.03	1.0000	1.00	366.0305
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		4599329	4.60e-07	1.0000	1.00	4.5993e-07
CRUDE:10-40	8.500		5522658	5.52e-06	1.0000	1.00	5.5227e-06
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		4666105	693.96	1.0000	1.00	693.9570
HYFL:12-40	9.155		4666105	260.18	1.0000	1.00	260.1808
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		58194	4.64	1.0000	1.00	4.6368
MO:20-36	10.482		208198	13.36	1.0000	1.00	13.3600
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		90126	6.38	1.0000	1.00	6.3753
HYFL:24-36	11.226		43245	3.24	1.0000	1.00	3.2359
TPHHF:24-36	11.226		43245	4.32e-08	1.0000	1.00	4.3245e-08
MO:24-36	11.226		43245	3.78	1.0000	1.00	3.7776
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.252	*VV	28848	0.03	1.0000	1.00	0.0288
				4823.49			

CURTIS & TOMPKINS,LTD. BERKELEY

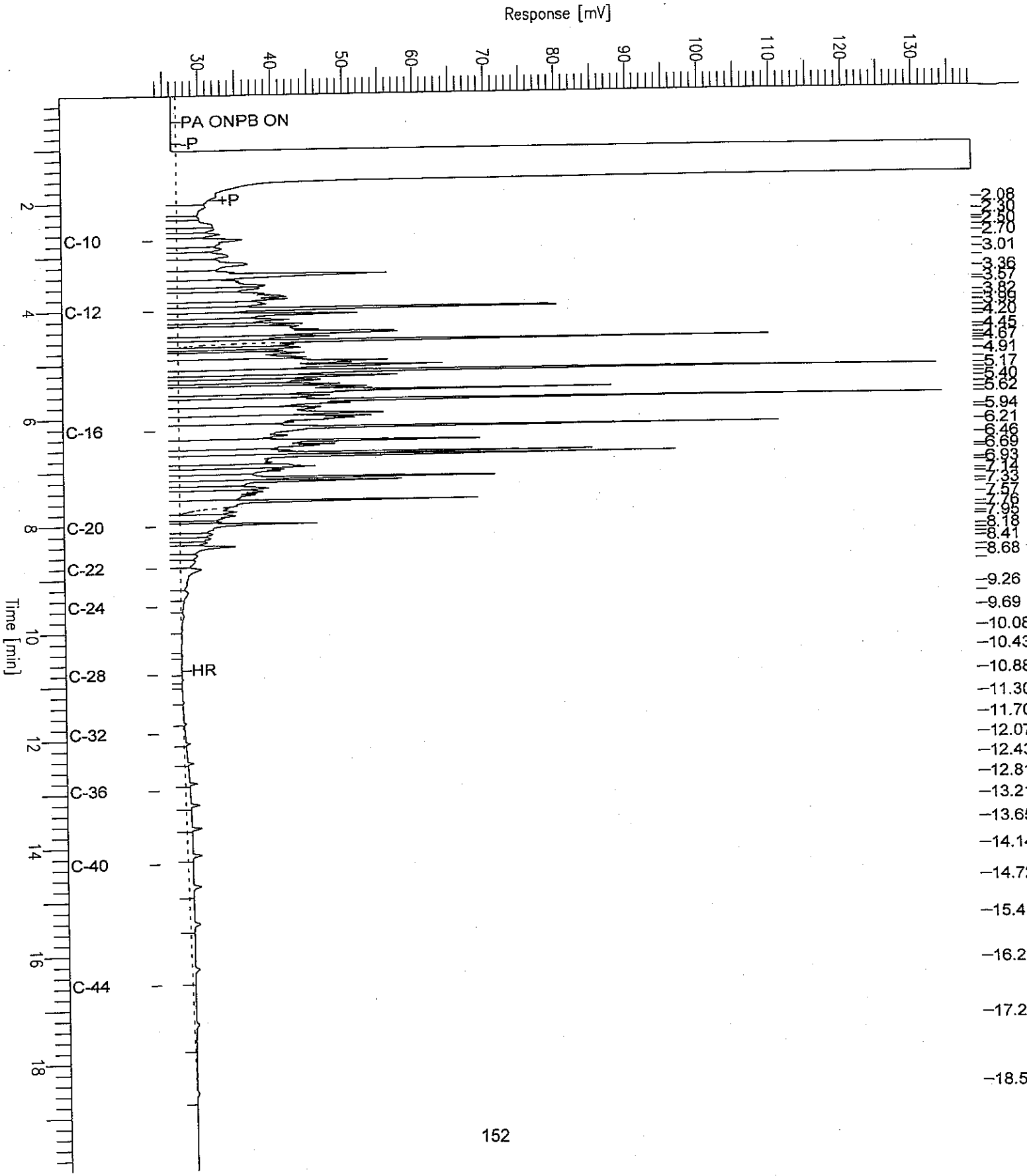
Analyzed By: 7/15/04 Reviewed By: mmp 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B004P.TXO

Chromatogram

Sample Name : ical,04ws1221,dsl
FileName : G:\GC13\CHB\196B004.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 250mg/L
Date : 7/15/04 09:51 AM
Time of Injection: 7/14/04 04:19 PM
Low Point : 23.53 mV High Point : 138.28 mV
Plot Scale: 114.8 mV



Software Version: 4.1<2F12>
Date: 7/15/04 09:52 AM
Sample Name : ical,04ws1220,dsl
Data File : G:\GC13\CHB\196B005.RAW Date: 7/14/04 04:47 PM
Sequence File: G:\GC13\196.SEQ Cycle: 5 Channel : B
Instrument : GC13 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		7994403	636.08	1.0000	1.00	636.0775
JP8:10-16	4.468		7994403	563.81	1.0000	1.00	563.8115
JP5:10-16	4.468		7994403	452.91	1.0000	1.00	452.9071
KER:10-16	4.468		7994403	238.39	1.0000	1.00	238.3874
DSL:10-20	5.361		11197023	780.11	1.0000	1.00	780.1088
DSL:10-22	5.748		11518482	781.66	1.0000	1.00	781.6604
DSL:10-24	6.105		11587116	781.08	1.0000	1.00	781.0844
GAIAFP:10-24	6.105		11587116	1.16e-05	1.0000	1.00	0.0000
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		9684283	790.67	1.0000	1.00	790.6747
TROIL:12-22	6.403		9684283	9.68e-06	1.0000	1.00	9.6843e-06
DSL:10-28	6.740		11613487	781.43	1.0000	1.00	781.4335
DSL:12-24	6.760		9752917	789.91	1.0000	1.00	789.9106
DSL:12-28	7.396		9779288	790.31	1.0000	1.00	790.3105
DSL:10-36	7.820		11642010	781.05	1.0000	1.00	781.0526
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		9807811	9.81e-07	1.0000	1.00	9.8078e-07
CRUDE:10-40	8.500		11695114	1.17e-05	1.0000	1.00	0.0000
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		9860915	1466.54	1.0000	1.00	1466.5445
HYFL:12-40	9.155		9860915	549.84	1.0000	1.00	549.8419
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		97772	7.79	1.0000	1.00	7.7903
MO:20-36	10.482		444988	28.55	1.0000	1.00	28.5547
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		123528	8.74	1.0000	1.00	8.7381
HYFL:24-36	11.226		54894	4.11	1.0000	1.00	4.1075
TPHHF:24-36	11.226		54894	5.49e-08	1.0000	1.00	5.4894e-08
MO:24-36	11.226		54894	4.80	1.0000	1.00	4.7952
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.279	*VV	24465	0.02	1.0000	1.00	0.0245
				10237.82			

CURTIS & TOMPKINS,LTD. BERKELEY

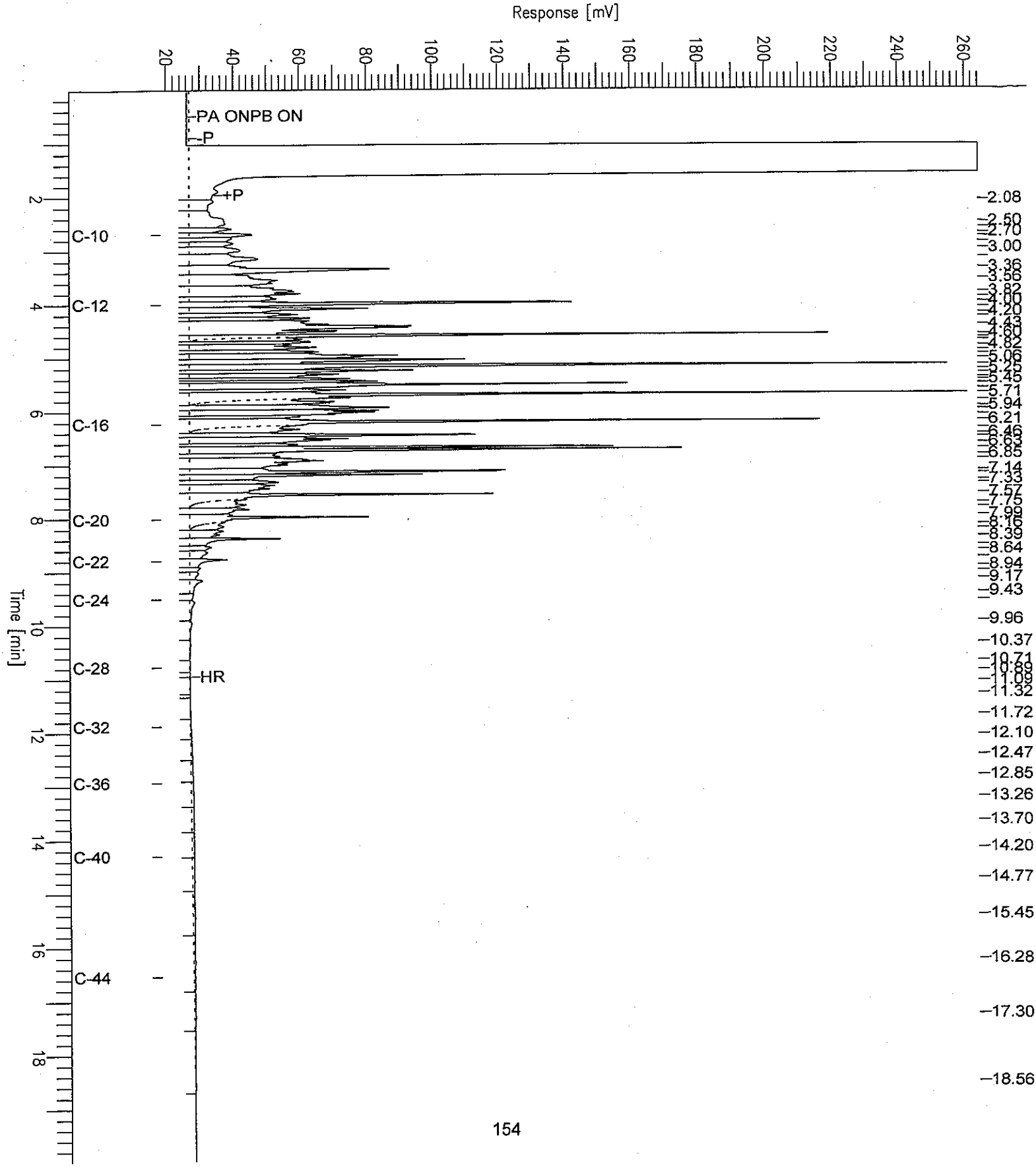
Analyzed By: GV, 7/15/04 Reviewed By: mmo 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B005P.TXO

Chromatogram

Sample Name : ical,04ws1220,dsl
FileName : G:\GC13\CHB\196B005.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 500mg/L
Date : 7/15/04 09:52 AM
Time of Injection: 7/14/04 04:47 PM
Low Point : 18.51 mV High Point : 264.11 mV
Plot Scale: 245.6 mV



Software Version: 4.1<2F12>
Date: 7/15/04 09:53 AM
Sample Name : ical,04ws1219,dsl
Data File : G:\GC13\CHB\196B006.RAW Date: 7/14/04 05:15 PM
Sequence File: G:\GC13\196.SEQ Cycle: 6 Channel : B
Instrument : GC13 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		16290442	1296.15	1.0000	1.00	1296.1548
JP8:10-16	4.468		16290442	1148.90	1.0000	1.00	1148.8961
JP5:10-16	4.468		16290442	922.90	1.0000	1.00	922.9028
KER:10-16	4.468		16290442	485.77	1.0000	1.00	485.7695
DSL:10-20	5.361		22733254	1583.85	1.0000	1.00	1583.8506
DSL:10-22	5.748		23389340	1587.23	1.0000	1.00	1587.2335
DSL:10-24	6.105		23575139	1589.19	1.0000	1.00	1589.1938
GAIAFP:10-24	6.105		23575139	2.36e-05	1.0000	1.00	0.0000
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		19712030	1609.39	1.0000	1.00	1609.3916
TROIL:12-22	6.403		19712030	1.97e-05	1.0000	1.00	0.0000
DSL:10-28	6.740		23604222	1588.25	1.0000	1.00	1588.2508
DSL:12-24	6.760		19897829	1611.57	1.0000	1.00	1611.5698
DSL:12-28	7.396		19926912	1610.39	1.0000	1.00	1610.3881
DSL:10-36	7.820		23627619	1585.16	1.0000	1.00	1585.1570
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		19950309	2.00e-06	1.0000	1.00	1.9950e-06
CRUDE:10-40	8.500		23658113	2.37e-05	1.0000	1.00	0.0000
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		19980803	2971.60	1.0000	1.00	2971.6043
HYFL:12-40	9.155		19980803	1114.12	1.0000	1.00	1114.1241
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		217408	17.32	1.0000	1.00	17.3227
MO:20-36	10.482		894365	57.39	1.0000	1.00	57.3912
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		238279	16.86	1.0000	1.00	16.8553
HYFL:24-36	11.226		52480	3.93	1.0000	1.00	3.9269
TPHHF:24-36	11.226		52480	5.25e-08	1.0000	1.00	5.2480e-08
MO:24-36	11.226		52480	4.58	1.0000	1.00	4.5843
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.319	*VV	18218	0.02	1.0000	1.00	0.0182
				20804.59			

CURTIS & TOMPKINS,LTD. BERKELEY

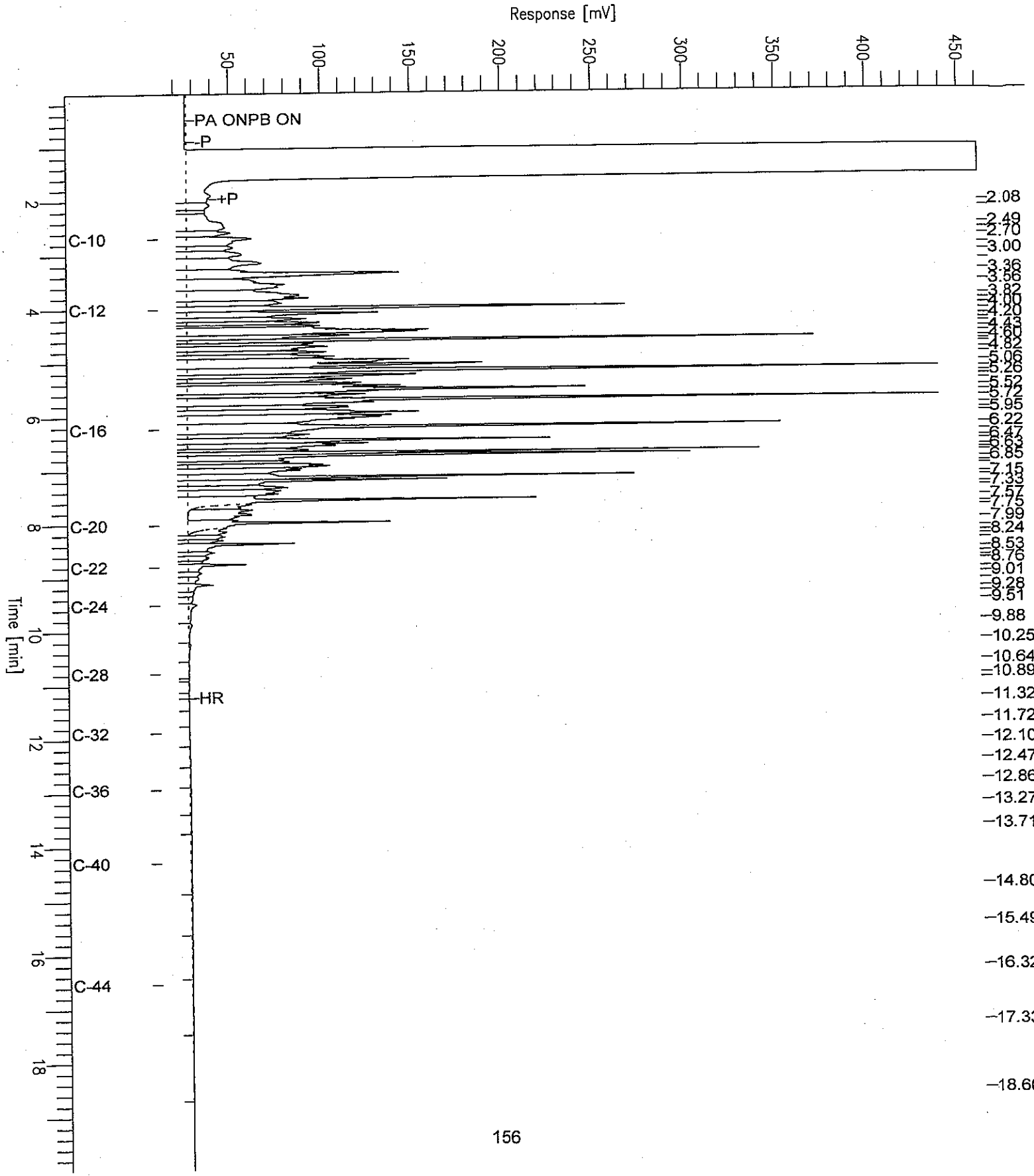
Analyzed By: GV. 7/15/04 Reviewed By: mme 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B006P.TXO

Chromatogram

Sample Name : ical,04ws1219,dsl
FileName : G:\GC13\CHB\196B006.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 1000mg/L
Date : 7/15/04 09:53 AM
Time of Injection: 7/14/04 05:15 PM
Low Point : 11.37 mV High Point : 461.12 mV
Plot Scale: 449.7 mV



Software Version: 4.1<2F12>
Date: 7/15/04 09:53 AM
Sample Name : ical,04ws1218,dsl
Data File : G:\GC13\CHB\196B007.RAW Date: 7/14/04 05:43 PM
Sequence File: G:\GC13\196.SEQ Cycle: 7 Channel : B
Instrument : GC13 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		38069227	3028.99	1.0000	1.00	3028.9916
JP8:10-16	4.468		38069227	2684.86	1.0000	1.00	2684.8619
JP5:10-16	4.468		38069227	2156.74	1.0000	1.00	2156.7369
KER:10-16	4.468		38069227	1135.20	1.0000	1.00	1135.1974
DSL:10-20	5.361		56968175	3969.04	1.0000	1.00	3969.0350
DSL:10-22	5.748		58569618	3974.62	1.0000	1.00	3974.6165
DSL:10-24	6.105		59031781	3979.32	1.0000	1.00	3979.3165
GAIAFP:10-24	6.105		59031781	5.90e-05	1.0000	1.00	0.0001
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		51422875	4198.43	1.0000	1.00	4198.4283
TROIL:12-22	6.403		51422875	5.14e-05	1.0000	1.00	0.0001
DSL:10-28	6.740		59142064	3979.48	1.0000	1.00	3979.4757
DSL:12-24	6.760		51885038	4202.29	1.0000	1.00	4202.2854
DSL:12-28	7.396		51995322	4201.99	1.0000	1.00	4201.9880
DSL:10-36	7.820		59166067	3969.40	1.0000	1.00	3969.4014
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		52019325	5.20e-06	1.0000	1.00	5.2019e-06
CRUDE:10-40	8.500		59200884	5.92e-05	1.0000	1.00	0.0001
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		52054142	7741.65	1.0000	1.00	7741.6462
HYFL:12-40	9.155		52054142	2902.52	1.0000	1.00	2902.5247
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		579725	46.19	1.0000	1.00	46.1915
MO:20-36	10.482		2197893	141.04	1.0000	1.00	141.0381
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		596449	42.19	1.0000	1.00	42.1915
HYFL:24-36	11.226		134287	10.05	1.0000	1.00	10.0482
TPHHF:24-36	11.226		134287	1.34e-07	1.0000	1.00	1.3429e-07
MO:24-36	11.226		134287	11.73	1.0000	1.00	11.7304
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.353	*VV	46563	0.05	1.0000	1.00	0.0466
				52375.75			

CURTIS & TOMPKINS,LTD. BERKELEY

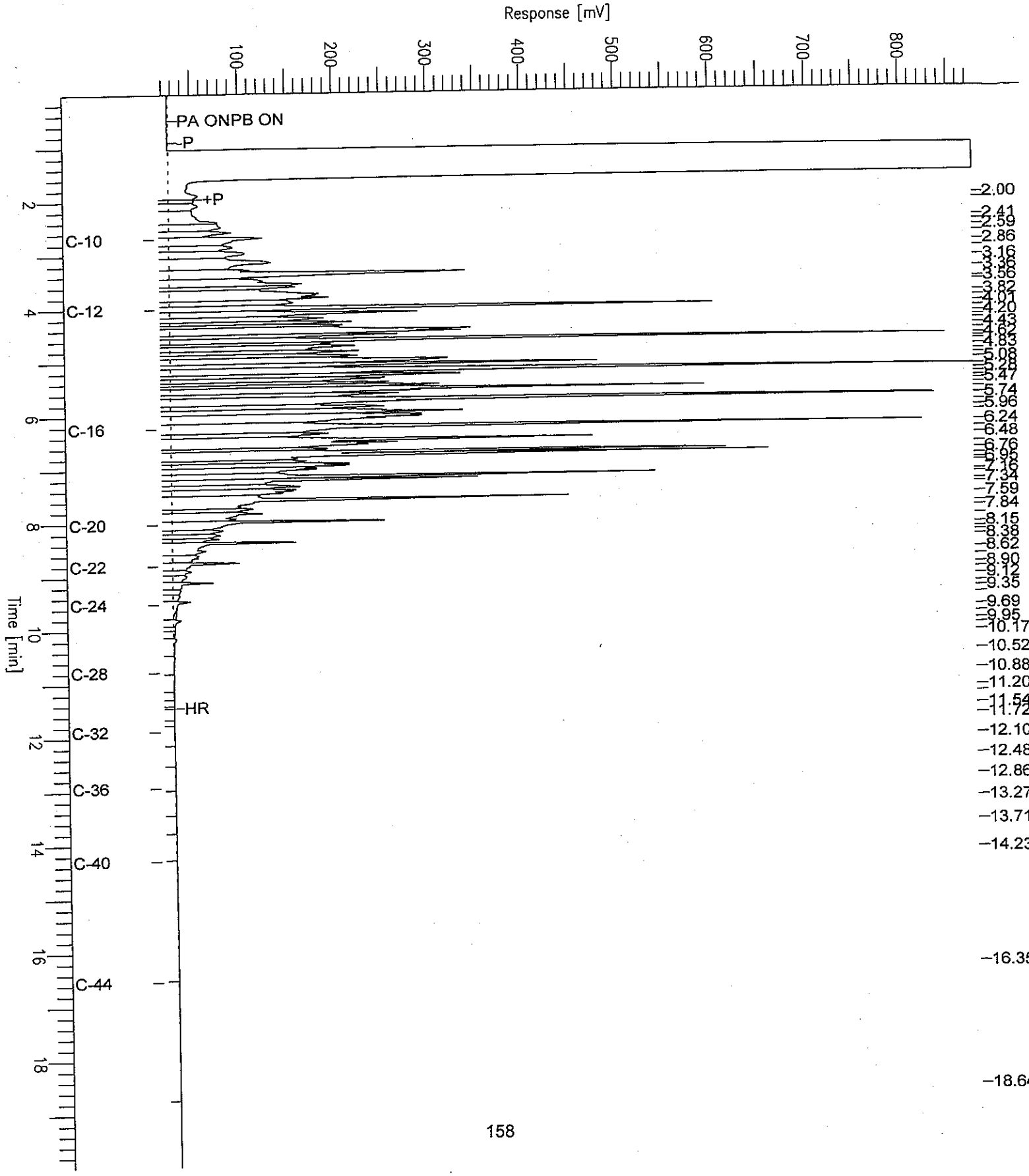
Analyzed By: SV. 9/15/04 Reviewed By: mmp 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B007P.TX0

Chromatogram

Sample Name : ical,04ws1218,dsl
FileName : G:\GC13\CHB\196B007.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 2500mg/L
Date : 7/15/04 09:53 AM
Time of Injection: 7/14/04 05:43 PM
Low Point : 11.37 mV High Point : 876.59 mV
Plot Scale: 865.2 mV



Software Version: 4.1<2F12>
Date: 7/15/04 09:54 AM
Sample Name : ical,04ws1217,dsl
Data File : G:\GC13\CHB\196B008.RAW Date: 7/14/04 06:11 PM
Sequence File: G:\GC13\196.SEQ Cycle: 8 Channel : B
Instrument : GC13 Rack/Vial: 0/8 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		75165409	5980.56	1.0000	1.00	5980.5626
JP8:10-16	4.468		75165409	5301.10	1.0000	1.00	5301.0992
JP5:10-16	4.468		75165409	4258.35	1.0000	1.00	4258.3478
KER:10-16	4.468		75165409	2241.38	1.0000	1.00	2241.3793
DSL:10-20	5.361		112310281	7824.78	1.0000	1.00	7824.7800
DSL:10-22	5.748		115530073	7840.03	1.0000	1.00	7840.0330
DSL:10-24	6.105		116482528	7852.06	1.0000	1.00	7852.0560
GAIAFP:10-24	6.105		116482528	1.16e-04	1.0000	1.00	0.0001
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		100201039	8180.93	1.0000	1.00	8180.9286
TROIL:12-22	6.403		100201039	1.00e-04	1.0000	1.00	0.0001
DSL:10-28	6.740		116734742	7854.70	1.0000	1.00	7854.6983
DSL:12-24	6.760		101153493	8192.65	1.0000	1.00	8192.6480
DSL:12-28	7.396		101405708	8195.08	1.0000	1.00	8195.0751
DSL:10-36	7.820		116767779	7833.85	1.0000	1.00	7833.8515
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		101438745	1.01e-05	1.0000	1.00	0.0000
CRUDE:10-40	8.500		116790512	1.17e-04	1.0000	1.00	0.0001
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		101461478	15089.65	1.0000	1.00	15089.6516
HYFL:12-40	9.155		101461478	5657.46	1.0000	1.00	5657.4642
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		1227956	97.84	1.0000	1.00	97.8414
MO:20-36	10.482		4457498	286.04	1.0000	1.00	286.0363
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		1237706	87.55	1.0000	1.00	87.5525
HYFL:24-36	11.226		285252	21.34	1.0000	1.00	21.3443
TPHHF:24-36	11.226		285252	2.85e-07	1.0000	1.00	2.8525e-07
MO:24-36	11.226		285252	24.92	1.0000	1.00	24.9176
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.335	*VV	12610	0.01	1.0000	1.00	0.0126
				102820.28			

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: GV. 7/15/04 Reviewed By: mmp 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B008P.TXO

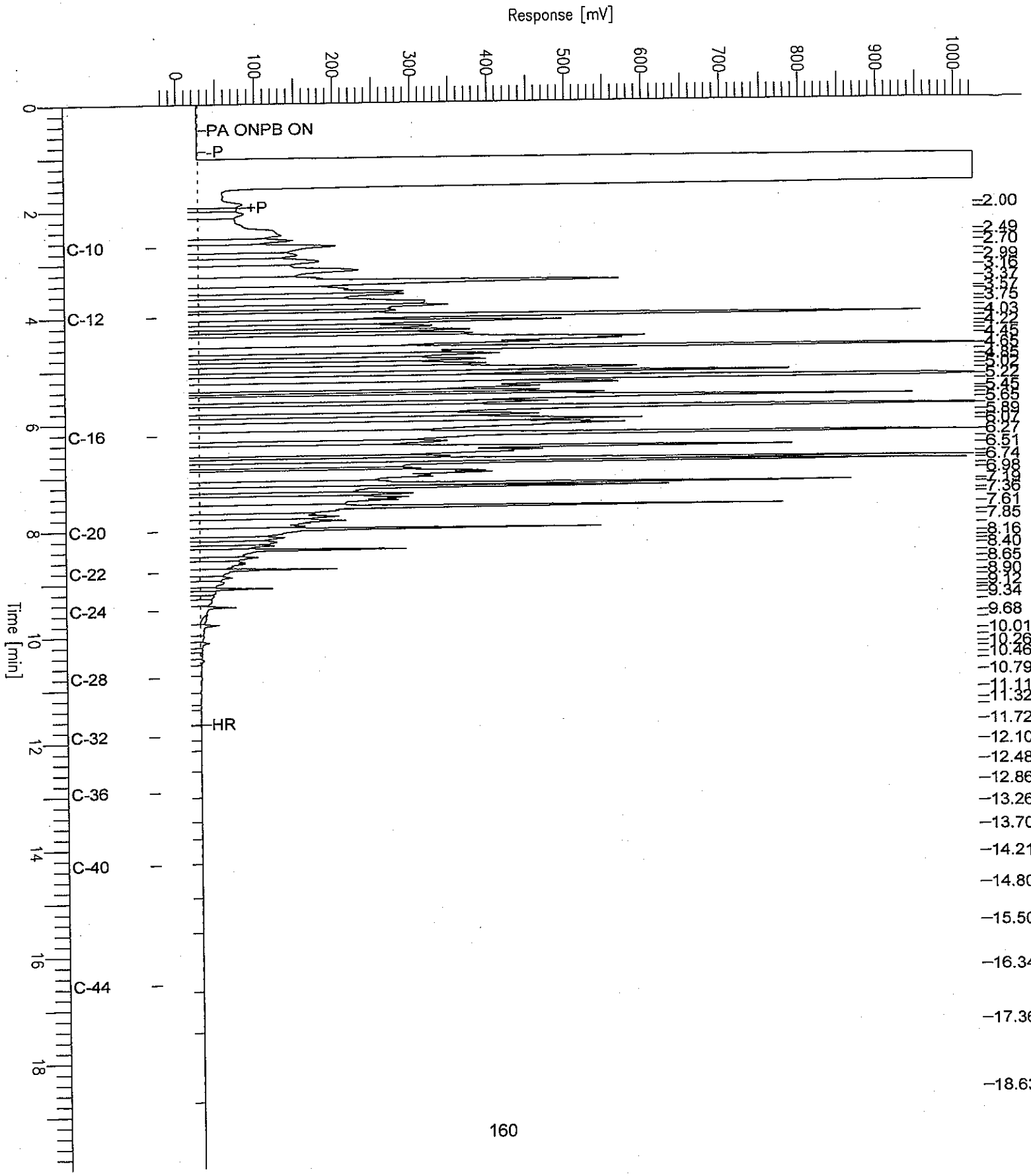
Chromatogram

Sample Name : ical,04ws1217,dsl
FileName : G:\GC13\CHB\196B008.RAW
Method : BTEH197S.MTH
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: -26 mV

Sample #: 5000mg/L
Date : 7/15/04 09:54 AM
Time of Injection: 7/14/04 06:11 PM
Low Point : -26.31 mV
Plot Scale: 1050.3 mV

High Point : 1024.00 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC13B
Seqnum : 144283164027
Run Name : dsl
Filename : 196b027
Injected : 15-JUL-2004 02:56
Caltype :

Standards: 04WS0983

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Flags
Diesel C10-C22	144283164001	14-JUL-2004	500.0000	497.4828	mg/L	-1	
Diesel C10-C24	144283164001	14-JUL-2004	500.0000	497.3567	mg/L	-1	
Diesel C10-C28	144283164001	14-JUL-2004	500.0000	496.8074	mg/L	-1	
Diesel C10-C20	144283164001	14-JUL-2004	500.0000	495.9431	mg/L	-1	
Diesel C12-C22	144283164001	14-JUL-2004	500.0000	495.2656	mg/L	-1	
Diesel C12-C24	144283164001	14-JUL-2004	500.0000	495.1365	mg/L	-1	
Diesel C12-C28	144283164001	14-JUL-2004	500.0000	494.4915	mg/L	-1	
Diesel C12-C36	144283164001	14-JUL-2004	500.0000	484.6309	mg/L	-3	
Hexacosane	144283164003	14-JUL-2004	50.00000	52.19515	mg/L	4	

10994752 / 22106 = 497.36506

BY. 7/15/04

/ MMP 7/15/04

Software Version: 4.1<2F12>
Date: 7/15/04 10:40 AM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC13\CHB\196B027.RAW Date: 7/15/04 02:56 AM
Sequence File: G:\GC13\196.SEQ Cycle: 27 Channel : B
Instrument : GC13 Rack/Vial: 0/27 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.698		0	0.00	1.0000	1.00	0.0000
C-12	4.009		0	0.00	1.0000	1.00	0.0000
JETA:10-16	4.468		7728734	614.94	1.0000	1.00	614.9395
JP8:10-16	4.468		7728734	545.08	1.0000	1.00	545.0750
JP5:10-16	4.468		7728734	437.86	1.0000	1.00	437.8562
KER:10-16	4.468		7728734	230.47	1.0000	1.00	230.4654
DSL:10-20	5.361		10610904	495.94	1.0000	1.00	495.9429
DSL:10-22	5.748		10912416	497.48	1.0000	1.00	497.4827
DSL:10-24	6.105		10994752	497.36	1.0000	1.00	497.3567
GAIAFP:10-24	6.105		10994752	1.10e-05	1.0000	1.00	0.0000
C-16	6.237		0	0.00	1.0000	1.00	0.0000
DSL:12-22	6.403		9162415	495.27	1.0000	1.00	495.2654
TROIL:12-22	6.403		9162415	9.16e-06	1.0000	1.00	9.1624e-06
DSL:10-28	6.740		12320193	556.24	1.0000	1.00	556.2351
DSL:12-24	6.760		9244751	495.14	1.0000	1.00	495.1366
DSL:12-28	7.396		10570192	564.83	1.0000	1.00	564.8281
DSL:10-36	7.820		12322383	546.82	1.0000	1.00	546.8221
C-20	8.023		0	0.00	1.0000	1.00	0.0000
TRIMSOL:12-36	8.475		10572382	1.06e-06	1.0000	1.00	1.0572e-06
CRUDE:10-40	8.500		12323276	1.23e-05	1.0000	1.00	0.0000
C-22	8.797		0	0.00	1.0000	1.00	0.0000
BUNKC:12-40	9.155		10573275	1572.49	1.0000	1.00	1572.4888
HYFL:12-40	9.155		10573275	589.56	1.0000	1.00	589.5629
C-24	9.512		0	0.00	1.0000	1.00	0.0000
MO:22-32	10.341		1409018	81.16	1.0000	1.00	81.1556
MO:20-36	10.482		1711480	79.37	1.0000	1.00	79.3729
C-28	10.782		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.869		1409967	73.69	1.0000	1.00	73.6888
HYFL:24-36	11.226		1327631	99.34	1.0000	1.00	99.3418
TPHHF:24-36	11.226		1327631	1.33e-06	1.0000	1.00	1.3276e-06
MO:24-36	11.226		1327631	88.41	1.0000	1.00	88.4090
C-32	11.886		0	0.00	1.0000	1.00	0.0000
C-36	12.941		0	0.00	1.0000	1.00	0.0000
C-40	14.302		0	0.00	1.0000	1.00	0.0000
C-44	16.287		0	0.00	1.0000	1.00	0.0000
				8561.43			

CURTIS & TOMPKINS,LTD. BERKELEY

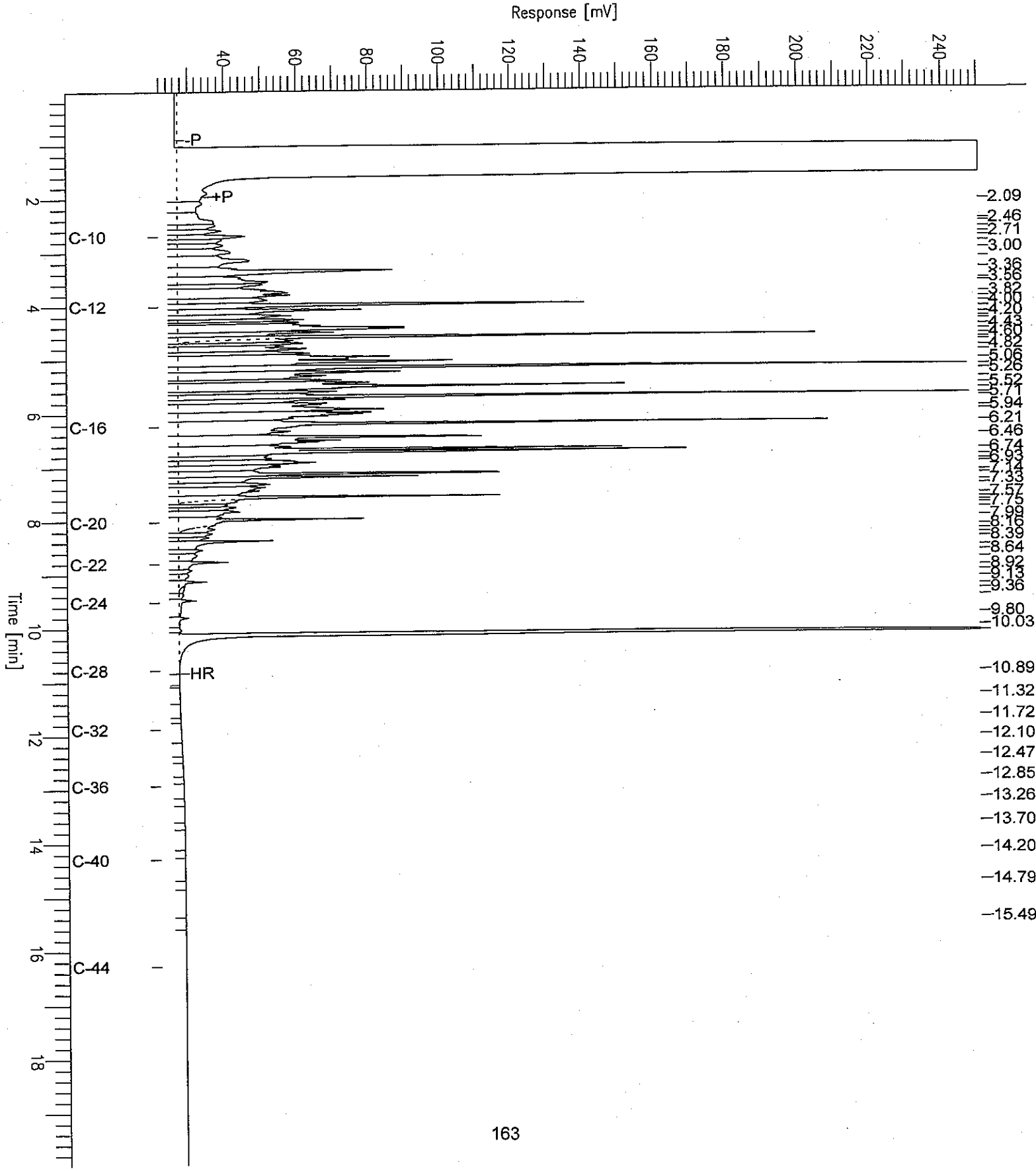
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\196B027P.TX0

Chromatogram

Sample Name : icv,04ws0983,dsl
FileName : G:\GC13\CHB\196B027.RAW
Method : BTEH197S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 7/15/04 10:40 AM
Time of Injection: 7/15/04 02:56 AM
Low Point : 21.79 mV High Point : 250.44 mV
Plot Scale: 228.7 mV



Software Version: 4.1<2F12>
Date: 7/15/04 10:36 AM
Sample Name : icv,04ws0983,dsl
Data File : G:\GC13\CHB\196B027.RAW Date: 7/15/04 02:56 AM
Sequence File: G:\GC13\196.SEQ Cycle: 27 Channel : B
Instrument : GC13 Rack/Vial: 0/27 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	1316280	52.20	52.1951			10.147	104.3903
		52.20					

CURTIS & TOMPKINS,LTD. BERKELEY

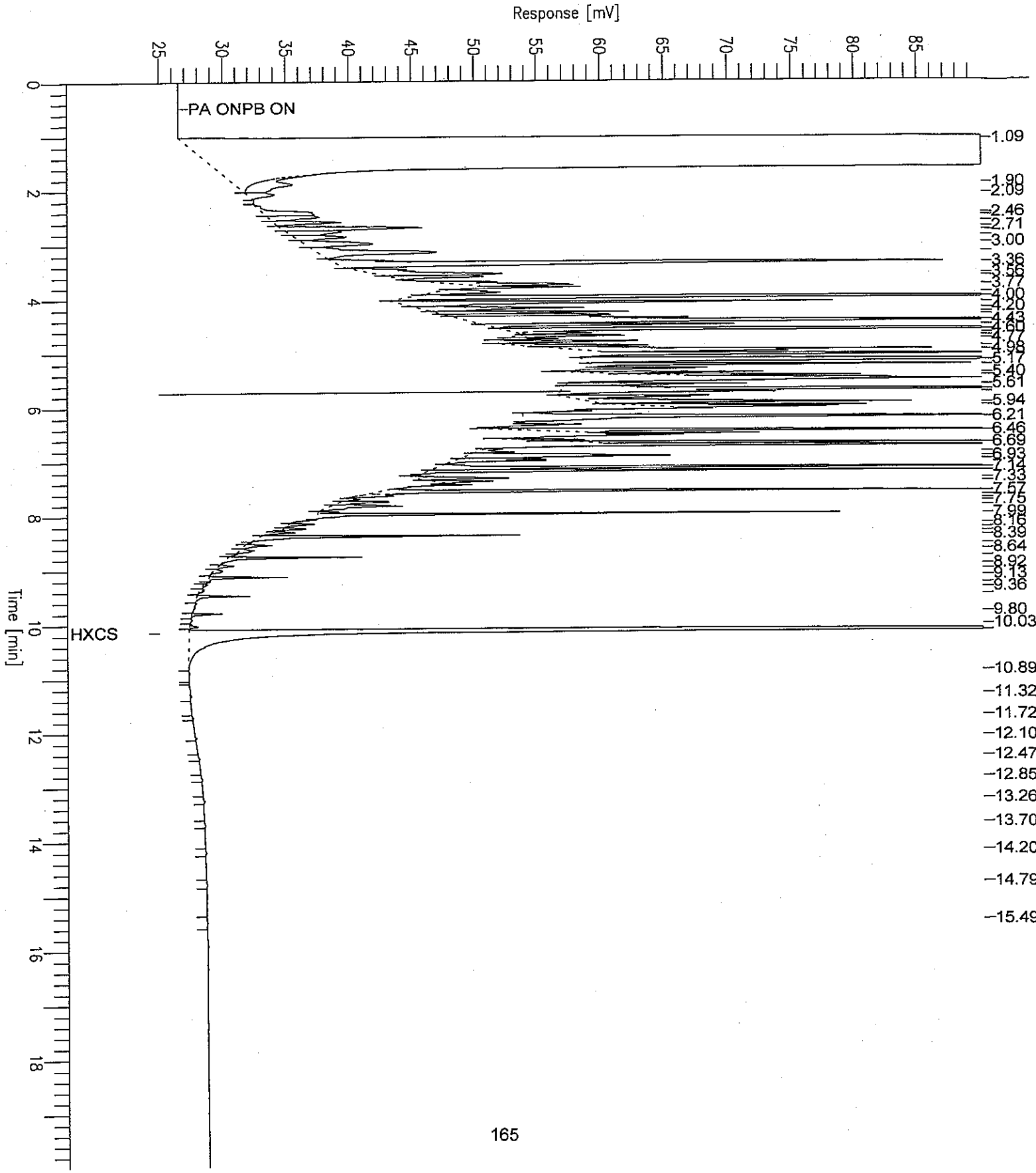
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\196B027.TX0

Chromatogram

Sample Name : icv,04ws0983,dsl
FileName : G:\GC13\CHB\196b027.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 7/15/04 10:36 AM
Time of Injection: 7/15/04 02:56 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By:
Calnum: 144283164003 Name: Hexacosane Type: (normal) Date: 14-JUL-2004 22:20 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	196b017	144283164017	hex	14-JUL-2004 22:20	04WS0533
2	196b018	144283164018	hex	14-JUL-2004 22:48	04WS0534
3	196b019	144283164019	hex	14-JUL-2004 23:15	04WS0535
4	196b020	144283164020	hex	14-JUL-2004 23:43	04WS0536
5	196b021	144283164021	hex	15-JUL-2004 00:11	04WS0537

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	23341	25682	25454	25462	26153	AVRG R		3.965E-5		mg/L	25218	4	0.995	20	

166

Gv. 7/15/04

/ mmp 7/15/04

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 7/15/04 08:43 AM
Sample Name : ical,04ws0533,hex
Data File : G:\GC13\CHB\196B017.RAW Date: 7/14/04 10:20 PM
Sequence File: G:\GC13\196.SEQ Cycle: 17 Channel : B
Instrument : GC13 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	116706	7.04	7.0410			10.137	14.0819
		7.04					

CURTIS & TOMPKINS,LTD. BERKELEY

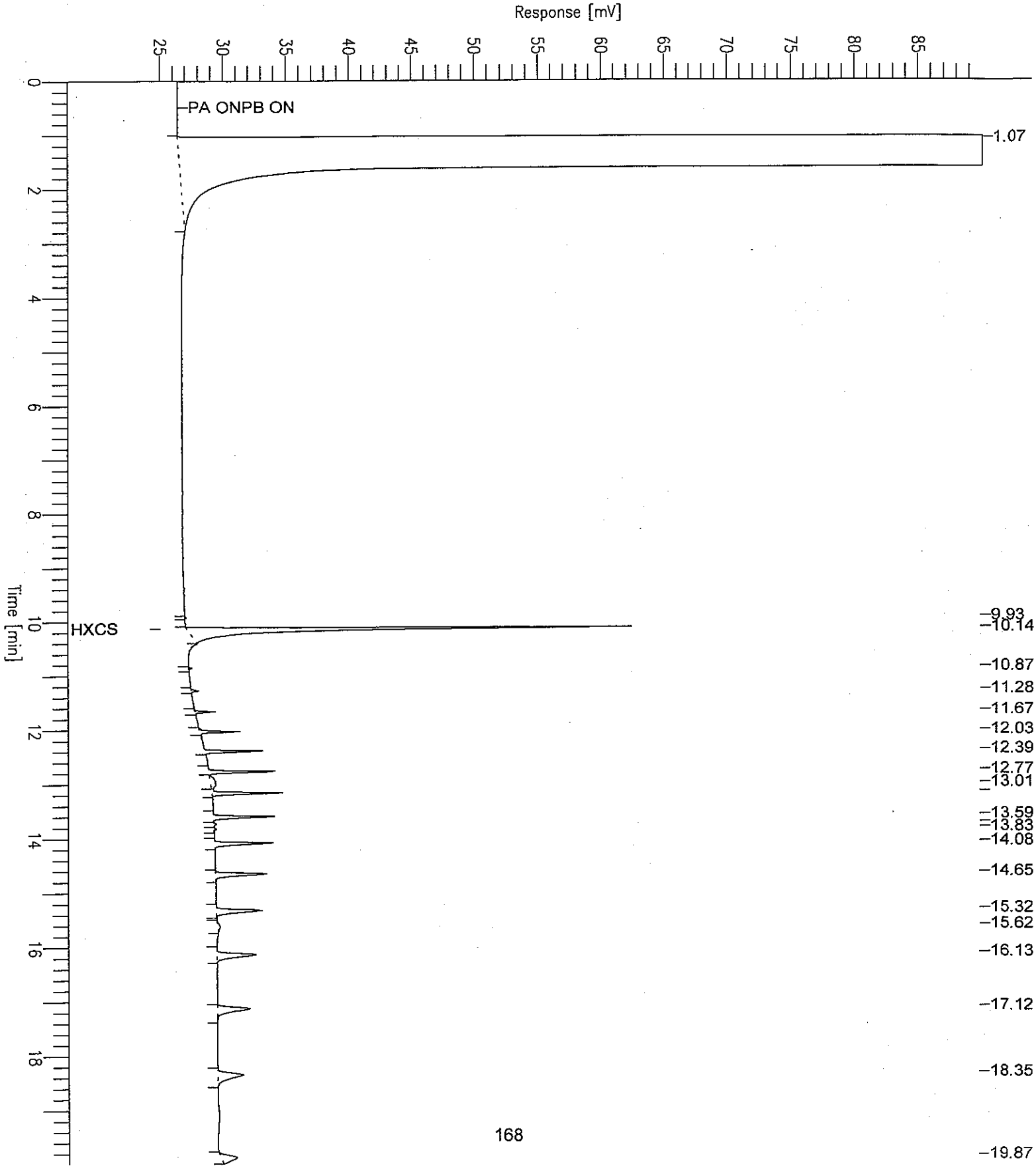
Analyzed By: LV. 7/15/04 Reviewed By: MMP 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B017.TX0

Chromatogram

Sample Name : ical,04ws0533,hex
FileName : G:\GC13\CHB\196b017.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 5mg/L
Date : 7/15/04 08:43 AM
Time of Injection: 7/14/04 10:20 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 7/15/04 08:43 AM
Sample Name : ical,04ws0534,hex
Data File : G:\GC13\CHB\196B018.RAW Date: 7/14/04 10:48 PM
Sequence File: G:\GC13\196.SEQ Cycle: 18 Channel : B
Instrument : GC13 Rack/Vial: 0/18 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	256820	15.49	15.4941			10.128	30.9882
		15.49					

CURTIS & TOMPKINS,LTD. BERKELEY

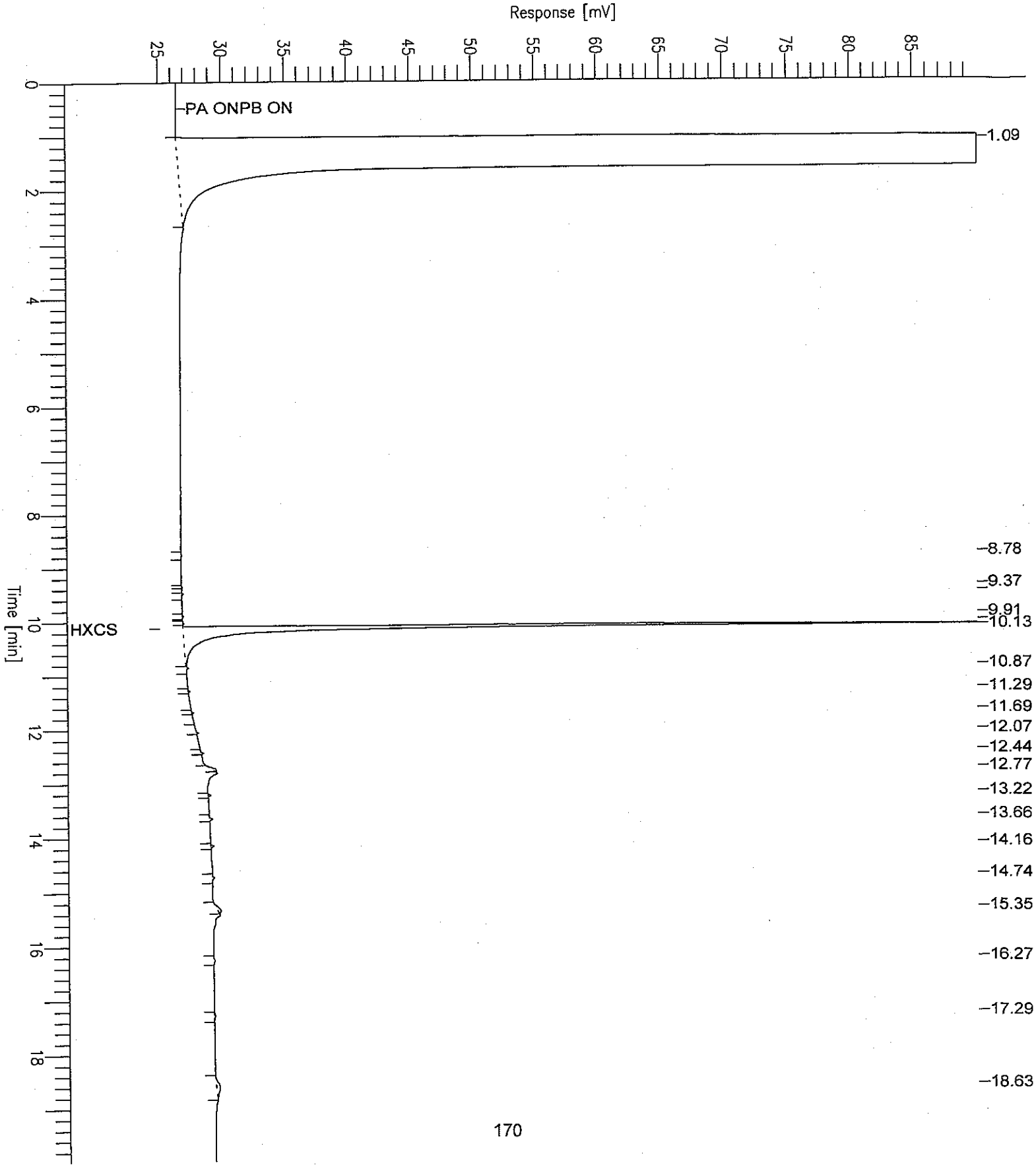
Analyzed By: SV. 7/15/04 Reviewed By: mmc 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B018.TXO

Chromatogram

Sample Name : ical,04ws0534,hex
FileName : G:\GC13\CHB\196b018.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L
Date : 7/15/04 08:43 AM
Time of Injection: 7/14/04 10:48 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 7/15/04 08:43 AM
Sample Name : ical,04ws0535,hex
Data File : G:\GC13\CHB\196B019.RAW Date: 7/14/04 11:15 PM
Sequence File: G:\GC13\196.SEQ Cycle: 19 Channel : B
Instrument : GC13 Rack/Vial: 0/19 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	636350	38.39	38.3914			10.133	76.7827
		38.39					

CURTIS & TOMPKINS,LTD. BERKELEY

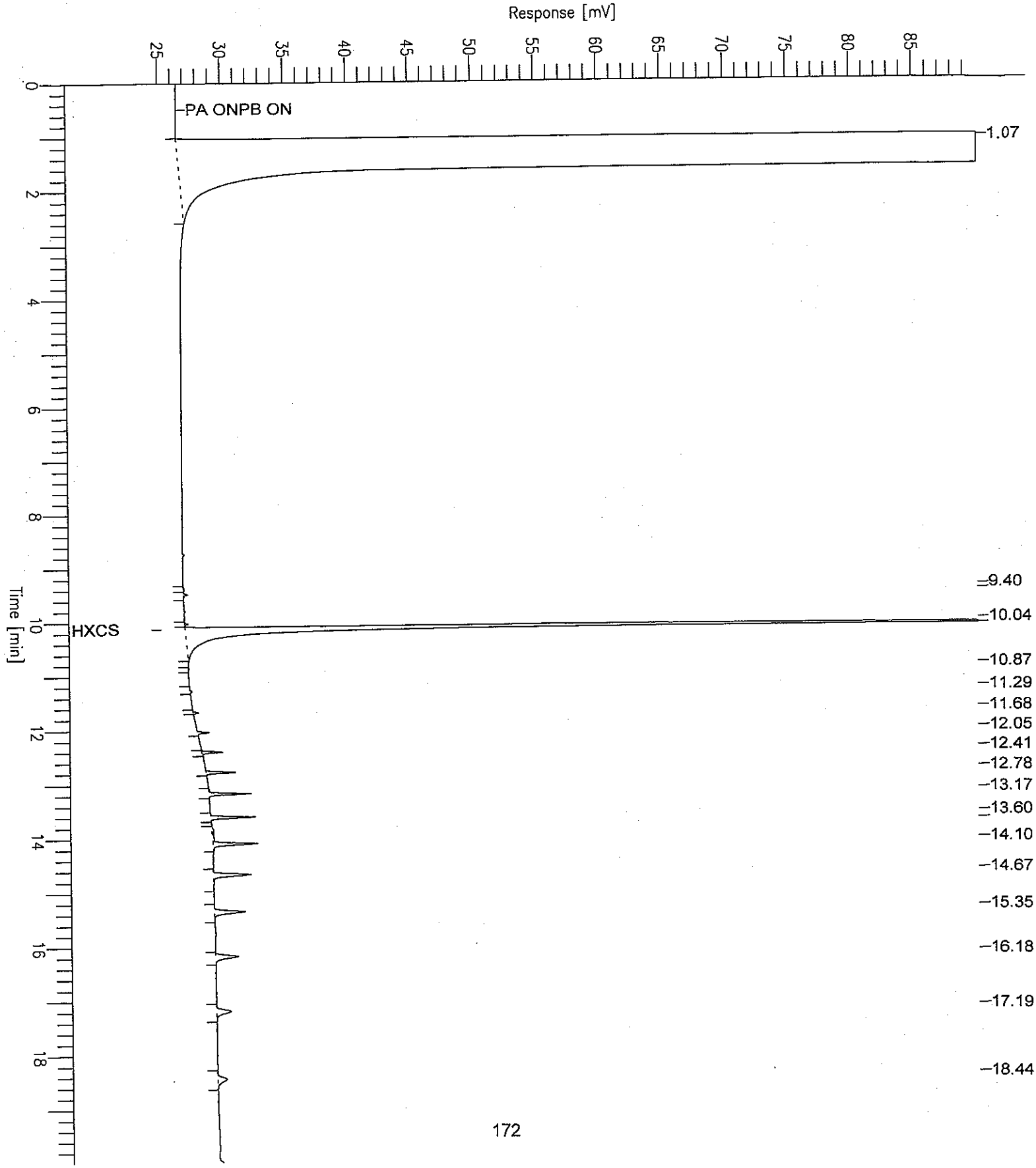
Analyzed By: CV. 7/15/04 Reviewed By: mmp 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B019.TX0

Chromatogram

Sample Name : ical,04ws0535,hex
FileName : G:\GC13\CHB\196b019.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 25mg/L
Date : 7/15/04 08:43 AM
Time of Injection: 7/14/04 11:15 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 7/15/04 08:43 AM
Sample Name : ical,04ws0536,hex
Data File : G:\GC13\CHB\196B020.RAW Date: 7/14/04 11:43 PM
Sequence File: G:\GC13\196.SEQ Cycle: 20 Channel : B
Instrument : GC13 Rack/Vial: 0/20 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	1273103	76.81	76.8071			10.147	153.6141
		76.81					

CURTIS & TOMPKINS,LTD. BERKELEY

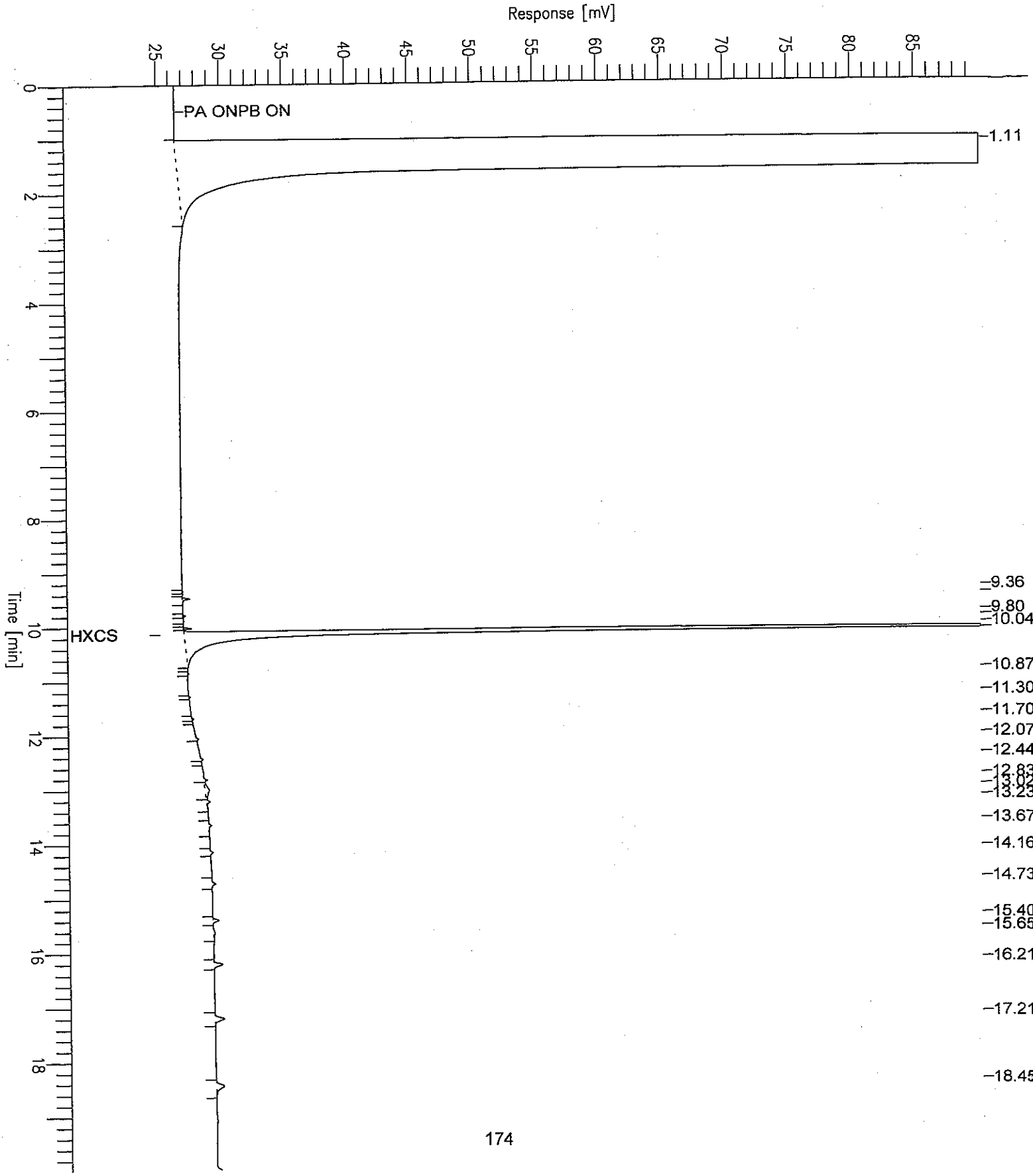
Analyzed By: SV, 7/15/04 Reviewed By: mmo 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B020.TX0

Chromatogram

Sample Name : ical,04ws0536,hex
FileName : G:\GC13\CHB\196b020.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L
Date : 7/15/04 08:43 AM
Time of Injection: 7/14/04 11:43 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 7/15/04 08:43 AM
Sample Name : ical,04ws0537,hex
Data File : G:\GC13\CHB\196B021.RAW Date: 7/15/04 12:11 AM
Sequence File: G:\GC13\196.SEQ Cycle: 21 Channel : B
Instrument : GC13 Rack/Vial: 0/21 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	1961468	118.34	118.3365		10.160	236.6730
		118.34				

CURTIS & TOMPKINS,LTD. BERKELEY

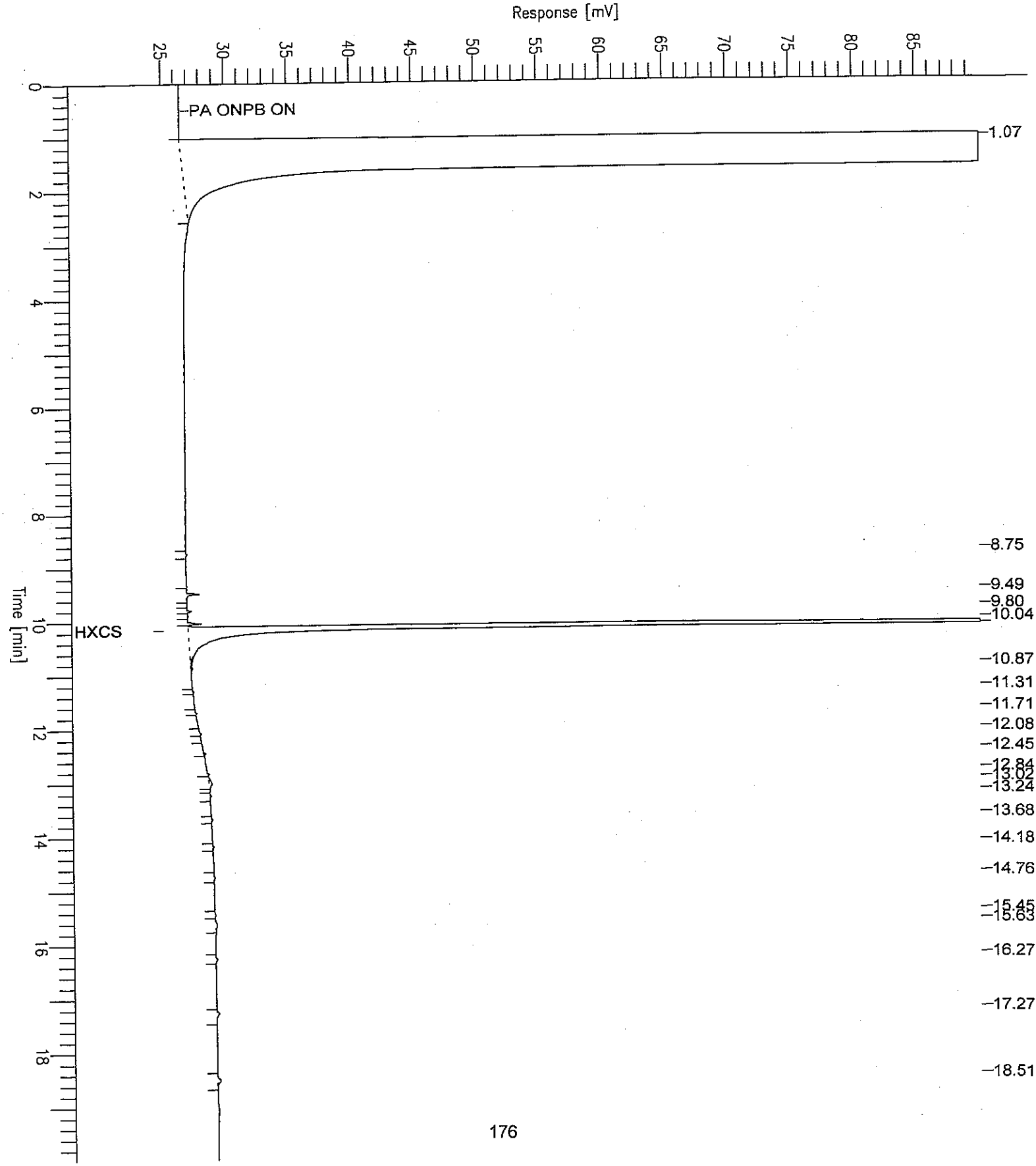
Analyzed By: GV 7/15/04 Reviewed By: MMP 7/15/04

Report stored in ASCII file: G:\GC13\CHB\196B021.TX0

Chromatogram

Sample Name : ical,04ws0537,hex
FileName : G:\GC13\CHB\196b021.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 75mg/L
Date : 7/15/04 08:43 AM
Time of Injection: 7/15/04 12:11 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Sample Name : c10-16 Time : 11/24/04 10:18 AM
Sample Number: Study :
Operator :

Instrument : GC17 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/33

Interface Serial # : NONE Data Acquisition Time: 11/24/04 05:00 AM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

/ mmo 11/24/04

Raw Data File : G:\GC17\CHA\328A033.RAW
Result File : C:\WINDOWS\TEMP\~RST3A2C.RST
Inst Method : G:\GC17\20mina from C:\WINDOWS\TEMP\~RST3A2C.RST
Proc Method : G:\GC17\ATEH316.MTH
Calib Method : G:\GC17\ATEH316.MTH
Sequence File : G:\GC17\328.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
10 1	1.828	549201.42	92596.87	12.03	12.03	BB	5.93
0	1.867	0.00	0.00	0.00	0.00		------
2	3.046	894735.06	208842.35	19.59	19.59	BB	4.28
0	3.087	0.00	0.00	0.00	0.00		------
3	4.175	1293950.05	644017.85	28.33	28.33	BB	2.01
4	5.187	1823062.09	893112.61	39.92	39.92	BB	2.04
0	5.259	0.00	0.00	0.00	0.00		------
0	7.783	0.00	0.00	0.00	0.00		------
0	8.489	0.00	0.00	0.00	0.00		------
5	9.357	202.90	85.19	0.00	0.00	BB	2.38
6	9.797	410.85	142.09	0.01	0.01	BB	2.89
7	10.212	500.57	227.59	0.01	0.01	BB	2.20
8	10.602	651.69	334.95	0.01	0.01	BB	1.95
9	10.975	708.95	380.80	0.02	0.02	BB	1.86
10	11.332	646.34	334.12	0.01	0.01	BB	1.93
11	11.671	565.61	309.24	0.01	0.01	BB	1.83
0	11.754	0.00	0.00	0.00	0.00		------
12	12.000	472.06	271.02	0.01	0.01	BB	1.74

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
13	12.321	382.22	219.50	0.01	0.01	BB	1.74
0	12.646	0.00	0.00	0.00	0.00		------
14	12.656	335.44	163.74	0.01	0.01	BV	2.05
15	12.733	277.29	202.08	0.01	0.01	VB	1.37
16	13.022	317.56	118.19	0.01	0.01	BB	2.69
17	13.428	231.34	93.32	0.01	0.01	BB	2.48
18	13.898	195.25	73.51	0.00	0.00	BB	2.66
0	17.537	0.00	0.00	0.00	0.00		------
		4566846.69	1.84e+06	100.00	100.00		

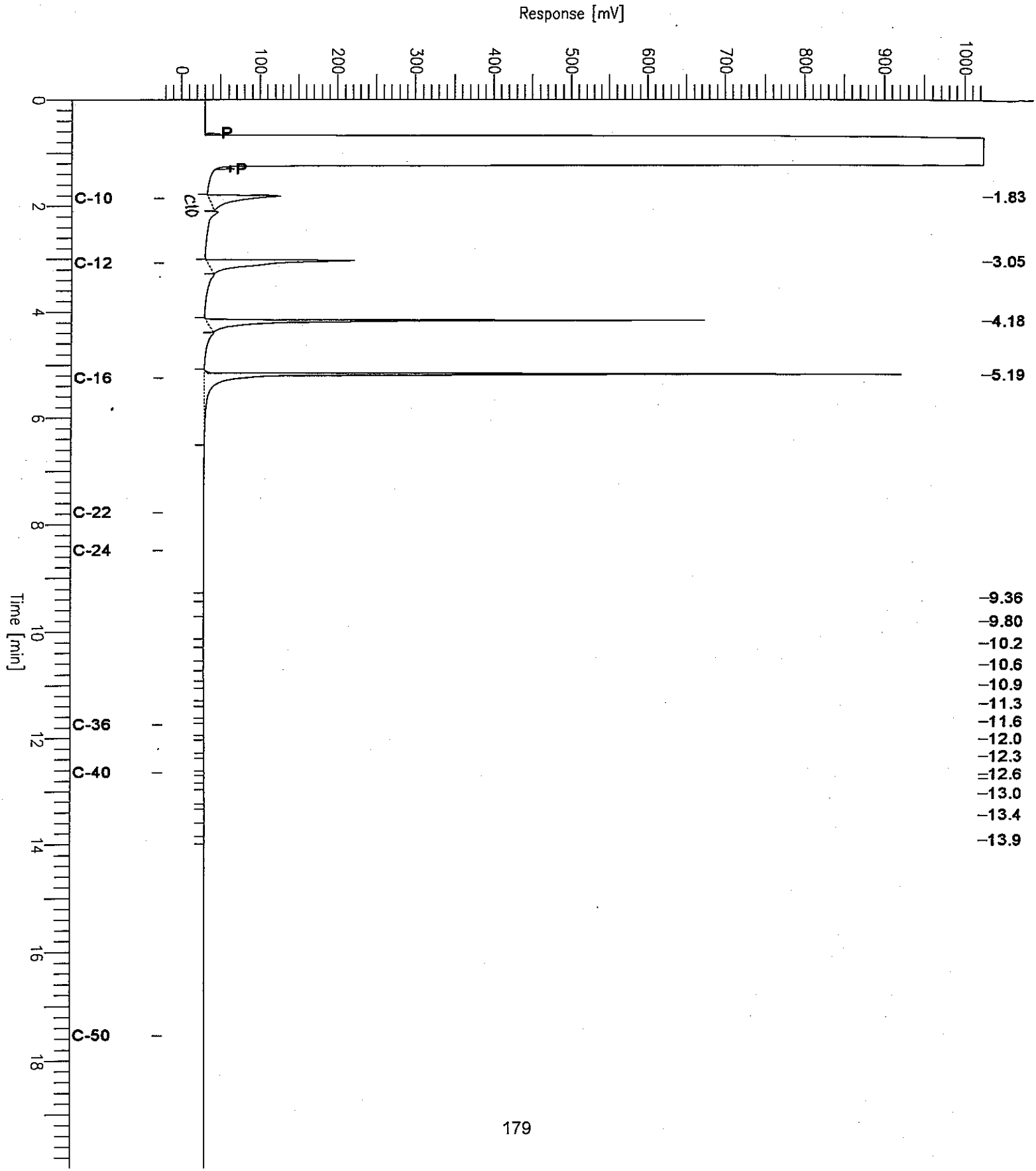
Missing Component Report

Component	Expected Retention (Calibration File)
C-10	1.867
C-12	3.087
C-16	5.259
C-22	7.783
C-24	8.489
C-36	11.754
C-40	12.646
C-50	17.537

Chromatogram

Sample Name : c10-16
FileName : G:\GC17\CHA\328A033.RAW
Method : ATEH316.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -22 mV

Sample #: Page 1 of 1
Date : 11/24/04 10:18 AM
Time of Injection: 11/24/04 05:00 AM
Low Point : -22.34 mV High Point : 1024.00 mV
Plot Scale: 1046.3 mV



Software Version: 4.1<2F12>
Sample Name : c12-60
Sample Number:
Operator :

Time : 11/24/04 10:18 AM
Study :

Instrument : GC17
AutoSampler : HP7673A
Rack/Vial : 0/34

Channel : A A/D mV Range : 1000

Interface Serial # : NONE Data Acquisition Time: 11/24/04 05:29 AM
Delay Time : 0.00 min.
End Time : 19.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : G:\GC17\CHA\328A034.RAW
Result File : C:\WINDOWS\TEMP\~RST3A2C.RST
Inst Method : G:\GC17\20mina from C:\WINDOWS\TEMP\~RST3A2C.RST
Proc Method : G:\GC17\ATEH316.MTH
Calib Method : G:\GC17\ATEH316.MTH
Sequence File : G:\GC17\328.SEQ

Sample Volume : 1.0000 uL
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00

DEFAULT REPORT

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
0	1.867	0.00	0.00	0.00	0.00		------
1	2.847	708.06	161.12	0.00	0.00	BB	4.39
C12 2	3.036	2079129.95	620603.34	5.69	5.69	BB	3.35
0	3.087	0.00	0.00	0.00	0.00		------
3	4.080	365.89	210.58	0.00	0.00	BB	1.74
C14 4	4.182	2055403.02	1.02e+06	5.62	5.62	BB	2.02
C16 5	5.196	2342935.60	1.03e+06	6.41	6.41	BB	2.27
0	5.259	0.00	0.00	0.00	0.00		------
6	6.042	23550.86	8891.22	0.06	0.06	BV	2.65
C18 7	6.104	2465402.54	1.00e+06	6.74	6.74	VE	2.46
8	6.685	4880.67	450.66	0.01	0.01	EV	10.83
C20 9	6.927	2562479.16	1.07e+06	7.01	7.01	VV	2.39
10	7.506	496.94	272.33	0.00	0.00	VB	1.82
11	7.575	1298.12	595.76	0.00	0.00	BV	2.18
C22 12	7.677	2674955.80	1.01e+06	7.32	7.32	VB	2.65
0	7.783	0.00	0.00	0.00	0.00		------
13	8.163	1649.73	929.17	0.00	0.00	BV	1.78
14	8.243	1912.67	878.34	0.01	0.01	VV	2.18

Peak #	Time [min]	Area [µV·s]	Height [µV]	Area [%]	Norm. Area [%]	BL	Area/Height [s]
C24 15	8.368	2741858.06	1.04e+06	7.50	7.50	VB	2.64
0	8.489	0.00	0.00	0.00	0.00		------
C26 16	9.008	2848277.13	1.04e+06	7.79	7.79	BV	2.74
17	9.365	6331.64	2744.22	0.02	0.02	VB	2.31
C28 18	9.608	2887878.81	1.07e+06	7.90	7.90	BV	2.71
19	9.919	7067.63	3024.28	0.02	0.02	VV	2.34
C30 20	10.160	2938626.36	945060.42	8.04	8.04	VB	3.11
21	10.437	8306.71	3658.54	0.02	0.02	BB	2.27
C32 22	10.687	2902913.72	1.02e+06	7.94	7.94	BE	2.85
23	10.879	2875.61	794.35	0.01	0.01	EV	3.62
24	10.932	10979.35	4777.56	0.03	0.03	VB	2.30
25	11.054	80.35	71.80	2e-04	2.20e-04	BB	1.12
26	11.124	117512.94	67485.05	0.32	0.32	BB	1.74
27	11.387	8578.10	4678.37	0.02	0.02	BB	1.83
C36 28	11.636	2921721.27	939169.50	7.99	7.99	BB	3.11
0	11.754	0.00	0.00	0.00	0.00		------
29	11.876	1364.22	479.86	0.00	0.00	BB	2.84
30	12.036	28033.21	12344.05	0.08	0.08	BE	2.27
31	12.156	1131.60	406.26	0.00	0.00	EV	2.79
32	12.269	2635.01	1452.68	0.01	0.01	VB	1.81
C40 33	12.527	2690319.75	697526.57	7.36	7.36	BV	3.86
34	12.588	53662.28	20867.24	0.15	0.15	VV	2.57
0	12.646	0.00	0.00	0.00	0.00		------
35	12.758	7634.43	2902.54	0.02	0.02	VV	2.63
36	12.872	955.85	433.98	0.00	0.00	VV	2.20
37	12.994	21379.81	9190.96	0.06	0.06	VB	2.33
38	13.275	11891.52	5257.28	0.03	0.03	BE	2.26
39	13.359	548.26	228.65	0.00	0.00	EB	2.40
40	13.502	4504.82	1551.13	0.01	0.01	BV	2.90
C44 41	13.675	1741637.88	377618.34	4.76	4.76	VE	4.61
42	13.759	5017.26	841.34	0.01	0.01	EV	5.96
43	14.005	7138.53	2309.80	0.02	0.02	VB	3.09
44	14.411	5816.25	1733.87	0.02	0.02	BB	3.35
45	14.878	4613.75	1323.86	0.01	0.01	BE	3.49
46	15.017	521.61	116.71	0.00	0.00	EV	4.47
47	15.402	17557.36	4616.49	0.05	0.05	VV	3.80
48	15.708	573.44	143.99	0.00	0.00	VB	3.98
49	16.054	6413.74	1498.47	0.02	0.02	BB	4.28
C50 50	16.847	317534.31	57481.15	0.87	0.87	BB	5.52
51	17.804	2428.48	261.06	0.01	0.01	BB	9.30
52	18.819	2568.38	371.69	0.01	0.01	BB	6.91
		36554058.41	1.31e+07	100.00	100.00		

Missing Component Report

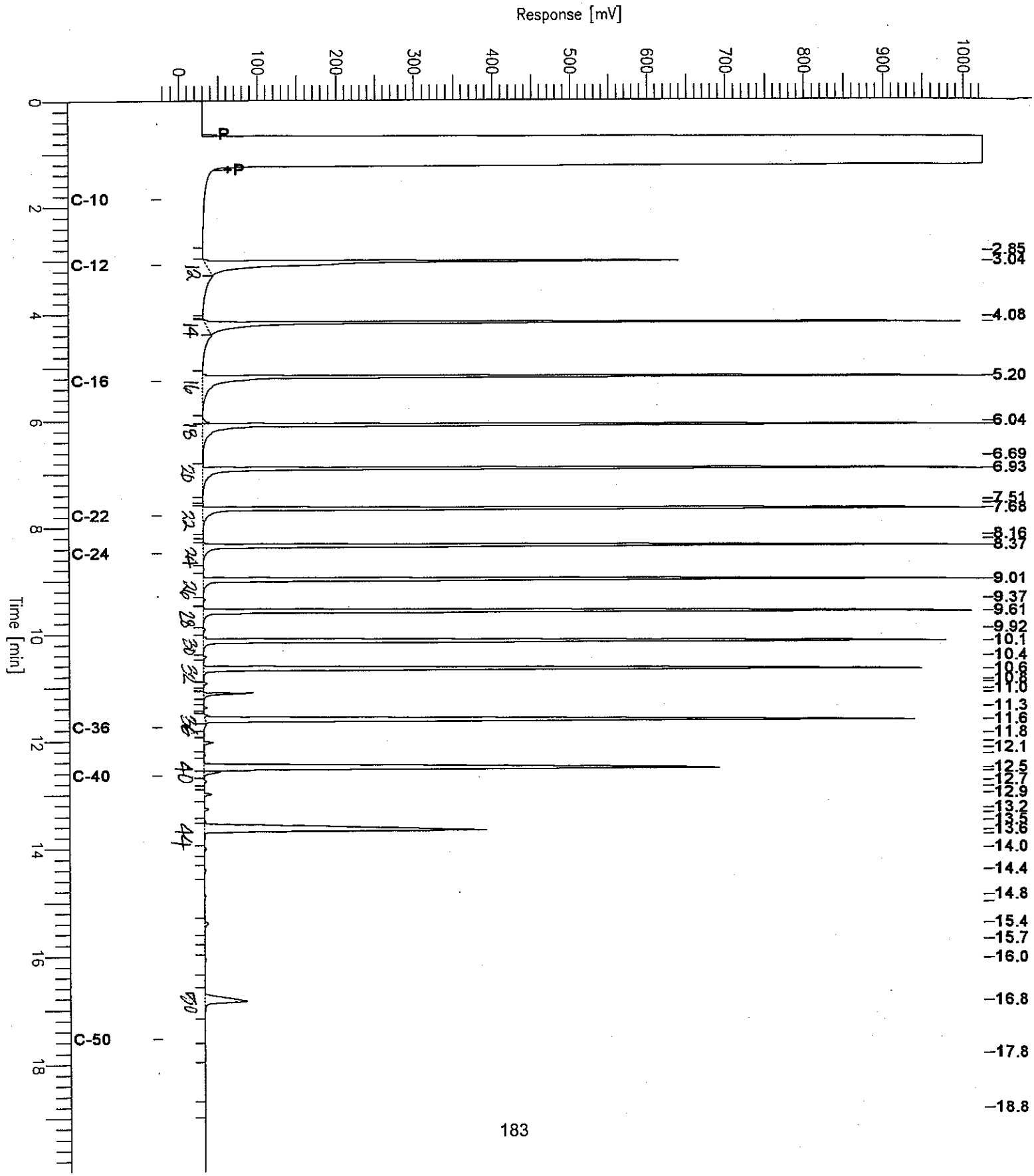
Component	Expected Retention (Calibration File)
C-10	1.867
C-12	3.087

C-16	5.259
C-22	7.783
C-24	8.489
C-36	11.754
C-40	12.646

Chromatogram

Sample Name : c12-60
FileName : G:\GC17\CHA\328A034.RAW
Method : ATEH316.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -22 mV

Sample #:
Date : 11/24/04 10:18 AM
Time of Injection: 11/24/04 05:29 AM
Low Point : -22.24 mV High Point : 1024.00 mV
Plot Scale: 1046.2 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By:
Calnum: 174472877001 Name: Diesel Type: (normal) Date: 23-NOV-2004 16:39 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328a007	174472877007	dsl10	23-NOV-2004 16:39	04WS1748
2	328a008	174472877008	dsl100	23-NOV-2004 17:08	04WS1747
3	328a009	174472877009	dsl250	23-NOV-2004 17:36	04WS1746
4	328a010	174472877010	dsl500	23-NOV-2004 18:05	04WS1745
5	328a011	174472877011	dsl1000	23-NOV-2004 18:34	04WS1744
6	328a012	174472877012	dsl2500	23-NOV-2004 19:02	04WS1743
7	328a013	174472877013	dsl5000	23-NOV-2004 19:30	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C10-C22	18360	24390	26399	25163	25879	26001	25575	AVRG R		4.075E-5		mg/L	24538	11	0.995	20	
Diesel C10-C24	18722	24757	26710	25455	26173	26214	25780	AVRG R		4.027E-5		mg/L	24830	11	0.995	20	
Diesel C10-C28	19674	24946	26837	25550	26280	26294	25856	AVRG R		3.990E-5		mg/L	25062	10	0.995	20	
Diesel C10-C20	17058	23471	25385	24213	25244	25290	24781	AVRG R		4.231E-5		mg/L	23635	13	0.995	20	
Diesel C12-C22	18360	21835	22682	21791	22182	22234	21721	AVRG R		4.642E-5		mg/L	21543	7	0.995	20	
Diesel C12-C24	18722	22202	22993	22083	22475	22448	21927	AVRG R		4.580E-5		mg/L	21836	6	0.995	20	
Diesel C12-C32	22196	22681	23191	22185	22594	22551	22014	AVRG R		4.447E-5		mg/L	22487	2	0.995	20	

CGV. 11/24/04
SMMP 11/24/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 11/24/04 11:08 AM
Sample Name : ical,04ws1748,dsl10
Data File : G:\GC17\CHA\328A007.RAW Date: 11/23/04 04:39 PM
Sequence File: G:\GC17\328.SEQ Cycle: 7 Channel : A
Instrument : GC17 Rack/Vial: 0/7 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	95697	3.67	3.6703	1.00	1.00	3.6703
KER:10-16	95697	9.57e-09	9.5697e-09	1.00	1.00	9.5697e-09
JP5:10-16	95697	4.31	4.3071	1.00	1.00	4.3071
JP8:10-16	95697	5.56	5.5625	1.00	1.00	5.5625
DSL:10-20	170584	6.01	6.0124	1.00	1.00	6.0124
DSL:10-22	183596	6.23	6.2312	1.00	1.00	6.2312
GAIAFP:10-24	187220	10.67	10.6666	1.00	1.00	10.6666
DSL:10-24	187220	6.28	6.2795	1.00	1.00	6.2795
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	183596	7.48	7.4789	1.00	1.00	7.4789
TROIL:12-22	183596	1.84e-08	1.8360e-08	1.00	1.00	1.8360e-08
DSL:12-24	187220	7.52	7.5192	1.00	1.00	7.5192
DSL:10-28	196743	6.58	6.5830	1.00	1.00	6.5830
DSL:12-32	221964	8.87	8.8651	1.00	1.00	8.8651
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	254472	10.14	10.1421	1.00	1.00	10.1421
TROIL:12-40	254472	7.84	7.8426	1.00	1.00	7.8426
BUNKC:12-40	254472	22.02	22.0220	1.00	1.00	22.0220
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	38368	1.98	1.9791	1.00	1.00	1.9791
MO:20-36	71573	3.00	2.9979	1.00	1.00	2.9979
MO:22-36	58561	2.77	2.7690	1.00	1.00	2.7690
BUNKC:12-50	289658	22.79	22.7890	1.00	1.00	22.7890
MO:24-36	54937	3.31	3.3103	1.00	1.00	3.3103
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

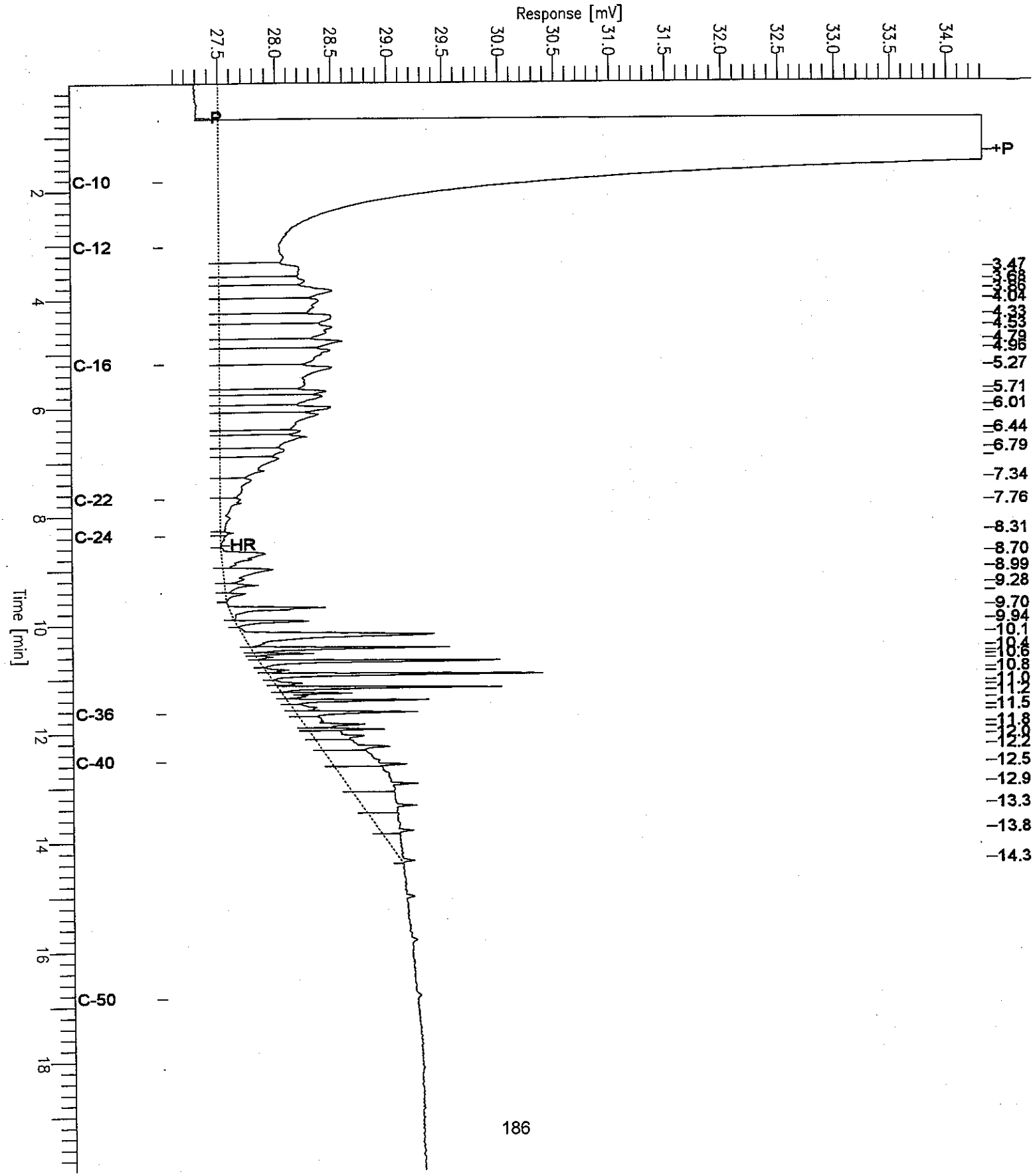
Analyzed By: 11/24/04 Reviewed By: 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A007P.TX0

Chromatogram

Sample Name : ical,04ws1748,dsl10
FileName : G:\GC17\CHA\328A007.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #: 10mg/L
Date : 11/24/04 11:08 AM
Time of Injection: 11/23/04 04:39 PM
Low Point : 27.00 mV High Point : 34.31 mV
Plot Scale: 7.3 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:10 AM
Sample Name : ical,04ws1747,dsl100
Data File : G:\GC17\CHA\328A008.RAW Date: 11/23/04 05:08 PM
Sequence File: G:\GC17\328.SEQ Cycle: 8 Channel : A
Instrument : GC17 Rack/Vial: 0/8 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	1582996	60.71	60.7127	1.00	1.00	60.7127
KER:10-16	1582996	1.58e-07	1.5830e-07	1.00	1.00	1.5830e-07
JP5:10-16	1582996	71.25	71.2467	1.00	1.00	71.2467
JP8:10-16	1582996	92.01	92.0133	1.00	1.00	92.0133
DSL:10-20	2347126	82.73	82.7266	1.00	1.00	82.7266
DSL:10-22	2438962	82.78	82.7777	1.00	1.00	82.7777
GAIAFP:10-24	2475715	141.05	141.0501	1.00	1.00	141.0501
DSL:10-24	2475715	83.04	83.0373	1.00	1.00	83.0373
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2183461	88.94	88.9448	1.00	1.00	88.9448
TROIL:12-22	2183461	2.18e-07	2.1835e-07	1.00	1.00	2.1835e-07
DSL:12-24	2220214	89.17	89.1688	1.00	1.00	89.1688
DSL:10-28	2494611	83.47	83.4689	1.00	1.00	83.4689
DSL:12-32	2268067	90.59	90.5852	1.00	1.00	90.5852
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	2301128	91.71	91.7122	1.00	1.00	91.7122
TROIL:12-40	2301128	70.92	70.9187	1.00	1.00	70.9187
BUNKC:12-40	2301128	199.14	199.1395	1.00	1.00	199.1395
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	84606	4.36	4.3641	1.00	1.00	4.3641
MO:20-36	199155	8.34	8.3417	1.00	1.00	8.3417
MO:22-36	107319	5.07	5.0745	1.00	1.00	5.0745
BUNKC:12-50	2323686	182.82	182.8170	1.00	1.00	182.8170
MO:24-36	70567	4.25	4.2521	1.00	1.00	4.2521
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

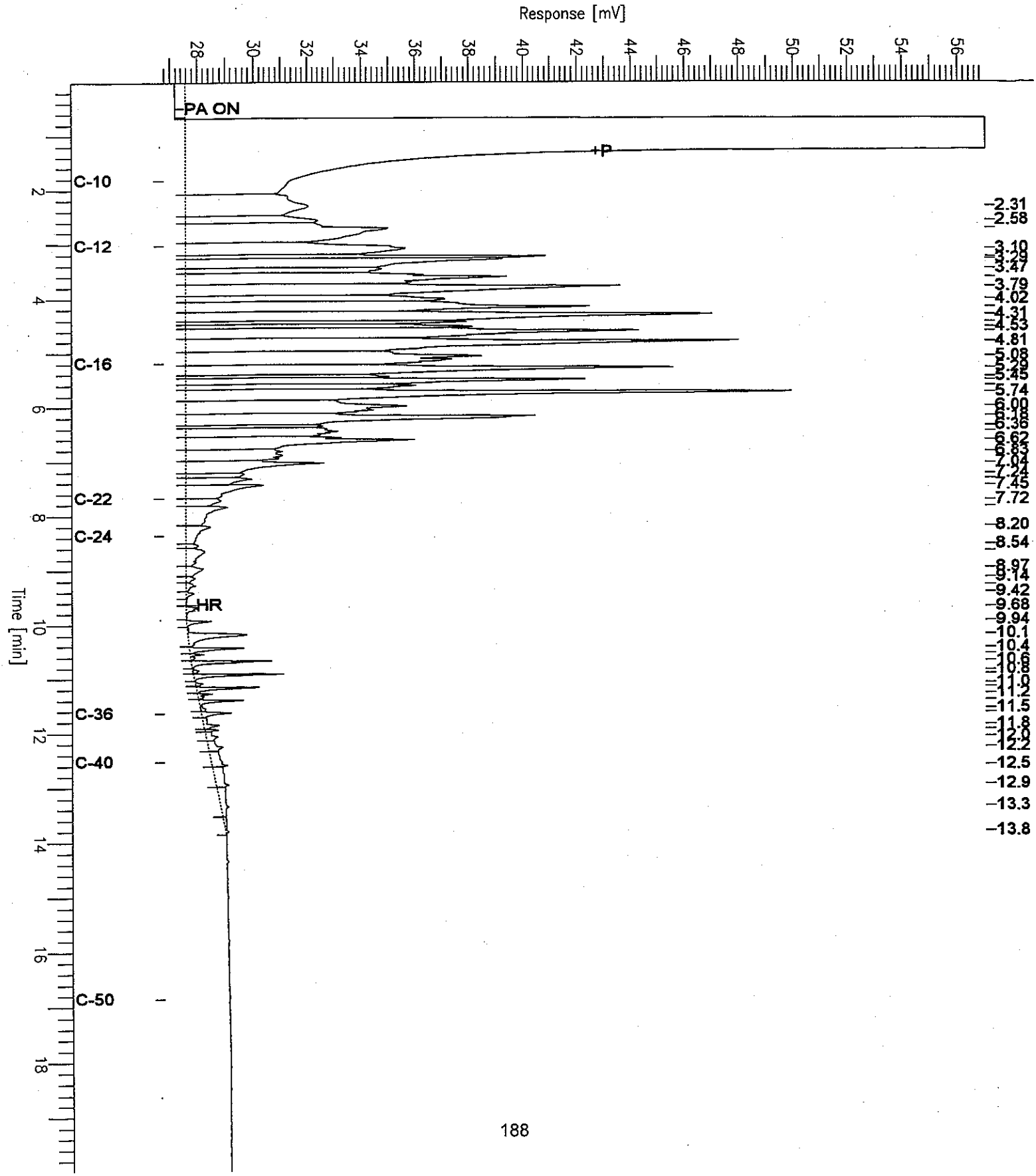
Analyzed By: GV, 11/24/04 Reviewed By: mmo 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A008P.TX0

Chromatogram

Sample Name : ical,04ws1747,ds1100
FileName : G:\GC17\CHA\328A008.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #: 100mg/L
Date : 11/24/04 11:10 AM
Time of Injection: 11/23/04 05:08 PM
Low Point : 26.76 mV High Point : 57.00 mV
Plot Scale: 30.2 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:10 AM
Sample Name : ical,04ws1746,dsl250
Data File : G:\GC17\CHA\328A009.RAW Date: 11/23/04 05:36 PM
Sequence File: G:\GC17\328.SEQ Cycle: 9 Channel : A
Instrument : GC17 Rack/Vial: 0/9 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	4312510	165.40	165.3977	1.00	1.00	165.3977
KER:10-16	4312510	4.31e-07	4.3125e-07	1.00	1.00	4.3125e-07
JP5:10-16	4312510	194.10	194.0952	1.00	1.00	194.0952
JP8:10-16	4312510	250.67	250.6693	1.00	1.00	250.6693
DSL:10-20	6346127	223.68	223.6751	1.00	1.00	223.6751
DSL:10-22	6599796	224.00	223.9953	1.00	1.00	223.9953
GAIAFP:10-24	6677530	380.44	380.4422	1.00	1.00	380.4422
DSL:10-24	6677530	223.97	223.9694	1.00	1.00	223.9694
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	5670482	230.99	230.9909	1.00	1.00	230.9909
TROIL:12-22	5670482	5.67e-07	5.6705e-07	1.00	1.00	5.6705e-07
DSL:12-24	5748215	230.86	230.8614	1.00	1.00	230.8614
DSL:10-28	6709215	224.49	224.4884	1.00	1.00	224.4884
DSL:12-32	5797637	231.55	231.5540	1.00	1.00	231.5540
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	5834006	232.52	232.5161	1.00	1.00	232.5161
TROIL:12-40	5834006	179.80	179.7987	1.00	1.00	179.7987
BUNKC:12-40	5834006	504.87	504.8745	1.00	1.00	504.8745
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	127155	6.56	6.5588	1.00	1.00	6.5588
MO:20-36	402963	16.88	16.8783	1.00	1.00	16.8783
MO:22-36	149293	7.06	7.0592	1.00	1.00	7.0592
BUNKC:12-50	5882740	462.83	462.8269	1.00	1.00	462.8269
MO:24-36	71560	4.31	4.3120	1.00	1.00	4.3120
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

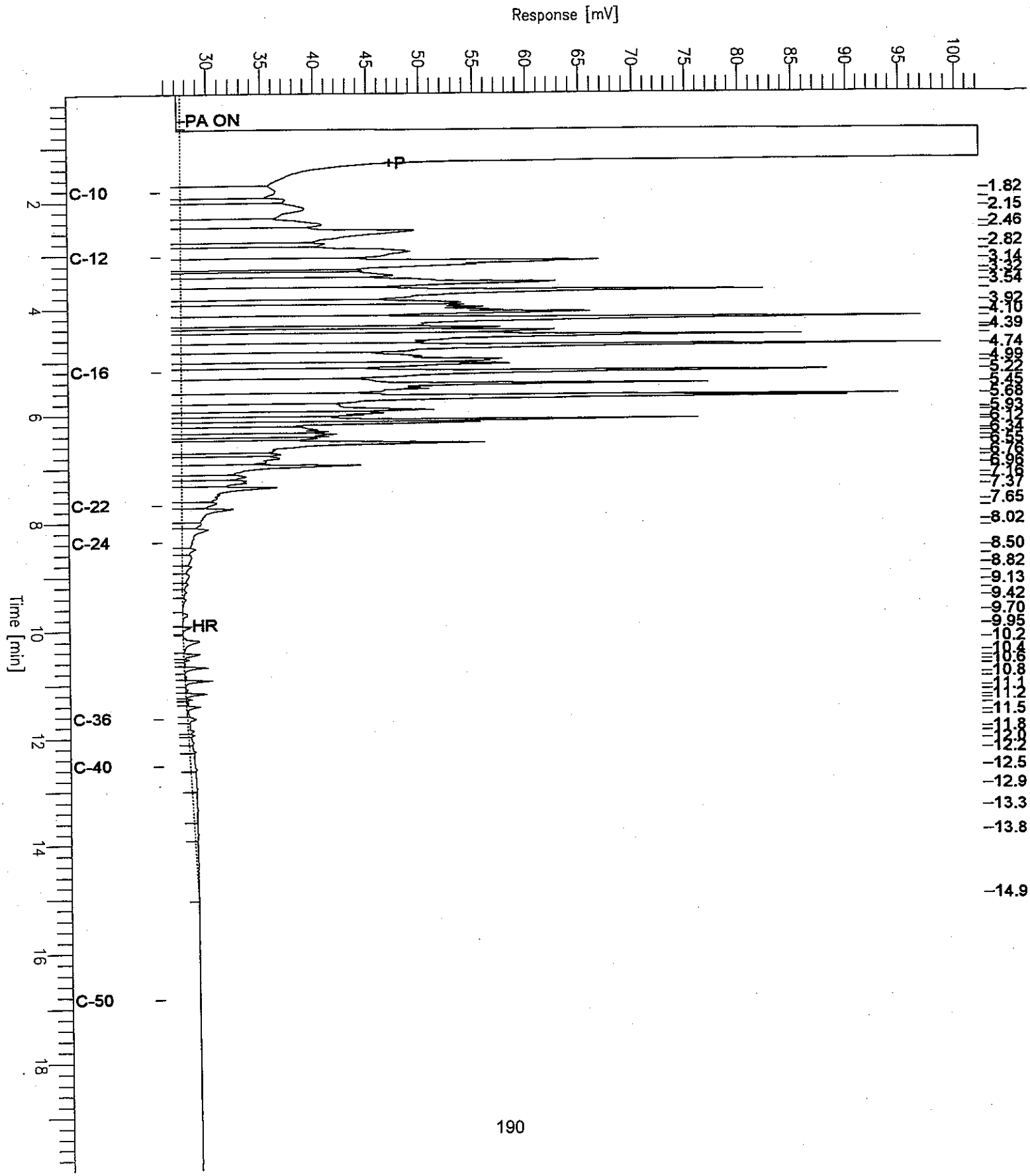
Analyzed By: GV. 11/24/04 Reviewed By: mmo 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A009P.TX0

Chromatogram

Sample Name : ical,04ws1746,ds1250
FileName : G:\GC17\CHA\328A009.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #: 250mg/L
Date : 11/24/04 11:10 AM
Time of Injection: 11/23/04 05:36 PM
Low Point : 25.63 mV High Point : 102.24 mV
Plot Scale: 76.6 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:11 AM
Sample Name : ical,04ws1745,dsl500
Data File : G:\GC17\CHA\328A010.RAW Date: 11/23/04 06:05 PM
Sequence File: G:\GC17\328.SEQ Cycle: 10 Channel : A
Instrument : GC17 Rack/Vial: 0/10 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	8764086	336.13	336.1291	1.00	1.00	336.1291
KER:10-16	8764086	8.76e-07	8.7641e-07	1.00	1.00	8.7641e-07
JP5:10-16	8764086	394.45	394.4494	1.00	1.00	394.4494
JP8:10-16	8764086	509.42	509.4219	1.00	1.00	509.4219
DSL:10-20	12106546	426.71	426.7065	1.00	1.00	426.7065
DSL:10-22	12581362	427.01	427.0080	1.00	1.00	427.0080
GAIAFP:10-24	12727345	725.12	725.1213	1.00	1.00	725.1213
DSL:10-24	12727345	426.88	426.8848	1.00	1.00	426.8848
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10895608	443.84	443.8399	1.00	1.00	443.8399
TROIL:12-22	10895608	1.09e-06	1.0896e-06	1.00	1.00	1.0896e-06
DSL:12-24	11041591	443.46	443.4555	1.00	1.00	443.4555
DSL:10-28	12775065	427.45	427.4499	1.00	1.00	427.4499
DSL:12-32	11092314	443.02	443.0201	1.00	1.00	443.0201
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	11101169	442.44	442.4406	1.00	1.00	442.4406
TROIL:12-40	11101169	342.13	342.1278	1.00	1.00	342.1278
BUNKC:12-40	11101169	960.69	960.6944	1.00	1.00	960.6944
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	196706	10.15	10.1463	1.00	1.00	10.1463
MO:20-36	673862	28.23	28.2251	1.00	1.00	28.2251
MO:22-36	199047	9.41	9.4117	1.00	1.00	9.4117
BUNKC:12-50	11131894	875.81	875.8062	1.00	1.00	875.8062
MO:24-36	53063	3.20	3.1974	1.00	1.00	3.1974
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

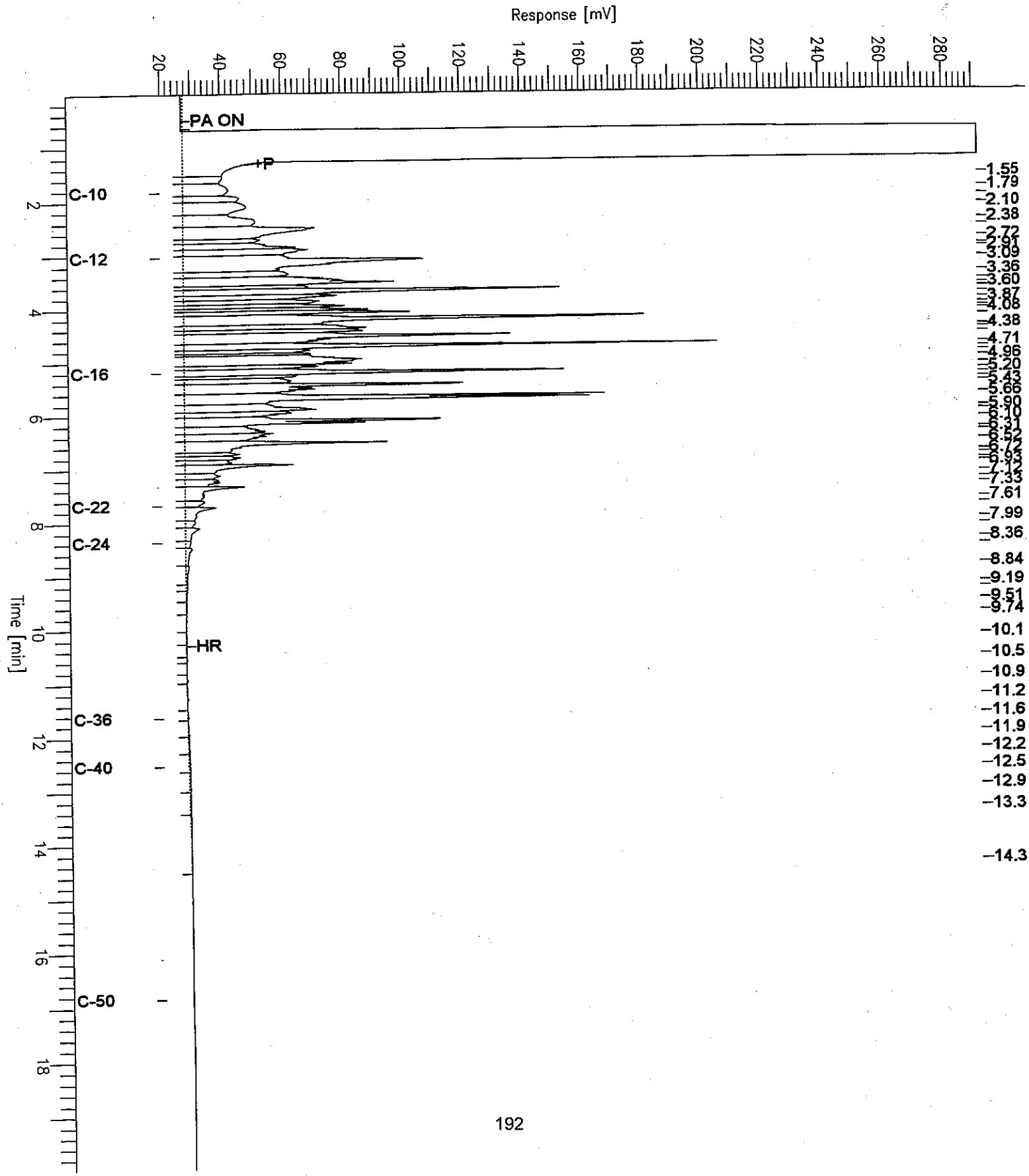
Analyzed By: SV. 11/24/04 Reviewed By: MMP 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A010P.TX0

Chromatogram

Sample Name : ical,04ws1745,ds1500
FileName : G:\GC17\CHA\328A010.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #: 500mg/L
Date : 11/24/04 11:11 AM
Time of Injection: 11/23/04 06:05 PM
Low Point : 19.82 mV High Point : 291.64 mV
Plot Scale: 271.8 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:12 AM
Sample Name : ical,04ws1744,dsl1000
Data File : G:\GC17\CHA\328A011.RAW Date: 11/23/04 06:34 PM
Sequence File: G:\GC17\328.SEQ Cycle: 11 Channel : A
Instrument : GC17 Rack/Vial: 0/11 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	18073557	693.18	693.1753	1.00	1.00	693.1753
KER:10-16	18073557	1.81e-06	1.8074e-06	1.00	1.00	1.8074e-06
JP5:10-16	18073557	813.45	813.4451	1.00	1.00	813.4451
JP8:10-16	18073557	1050.54	1050.5449	1.00	1.00	1050.5449
DSL:10-20	25244455	889.76	889.7642	1.00	1.00	889.7642
DSL:10-22	25878686	878.32	878.3155	1.00	1.00	878.3155
GAIAFP:10-24	26172547	1491.14	1491.1414	1.00	1.00	1491.1414
DSL:10-24	26172547	877.85	877.8470	1.00	1.00	877.8470
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	22181503	903.58	903.5784	1.00	1.00	903.5784
TROIL:12-22	22181503	2.22e-06	2.2182e-06	1.00	1.00	2.2182e-06
DSL:12-24	22475364	902.66	902.6619	1.00	1.00	902.6619
DSL:10-28	26279556	879.31	879.3063	1.00	1.00	879.3063
DSL:12-32	22593710	902.38	902.3788	1.00	1.00	902.3788
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	22607042	901.01	901.0108	1.00	1.00	901.0108
TROIL:12-40	22607042	696.73	696.7283	1.00	1.00	696.7283
BUNKC:12-40	22607042	1956.41	1956.4119	1.00	1.00	1956.4119
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	412207	21.26	21.2621	1.00	1.00	21.2621
MO:20-36	1054208	44.16	44.1560	1.00	1.00	44.1560
MO:22-36	419977	19.86	19.8581	1.00	1.00	19.8581
BUNKC:12-50	22625407	1780.06	1780.0631	1.00	1.00	1780.0631
MO:24-36	126116	7.60	7.5994	1.00	1.00	7.5994
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

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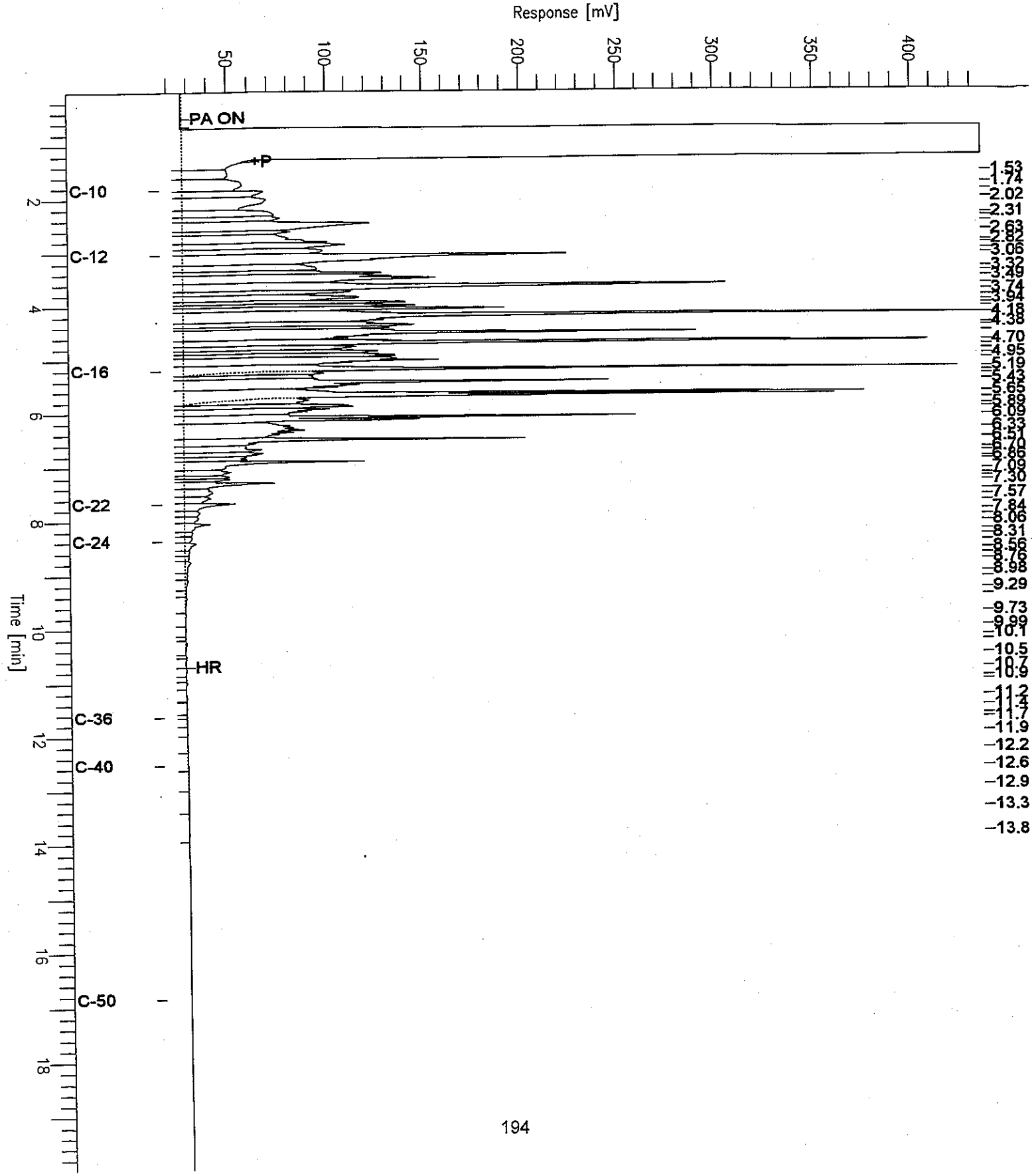
Analyzed By: L.V. 11/24/04 Reviewed By: MMD 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A011P.TXO

Chromatogram

Sample Name : ical,04ws1744,dsl1000
FileName : G:\GC17\CHA\328A011.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 16 mV

Sample #: 1000mg/L
Date : 11/24/04 11:12 AM
Time of Injection: 11/23/04 06:34 PM
Low Point : 16.14 mV High Point : 435.18 mV
Plot Scale: 419.0 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:12 AM
Sample Name : ical,04ws1743,dsl2500
Data File : G:\GC17\CHA\328A012.RAW Date: 11/23/04 07:02 PM
Sequence File: G:\GC17\328.SEQ Cycle: 12 Channel : A
Instrument : GC17 Rack/Vial: 0/12 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	42824418	1642.45	1642.4453	1.00	1.00	1642.4453
KER:10-16	42824418	4.28e-06	4.2824e-06	1.00	1.00	4.2824e-06
JP5:10-16	42824418	1927.42	1927.4189	1.00	1.00	1927.4189
JP8:10-16	42824418	2489.22	2489.2152	1.00	1.00	2489.2152
DSL:10-20	63226242	2228.47	2228.4676	1.00	1.00	2228.4676
DSL:10-22	65001635	2206.14	2206.1376	1.00	1.00	2206.1376
GAIAFP:10-24	65534888	3733.75	3733.7514	1.00	1.00	3733.7514
DSL:10-24	65534888	2198.09	2198.0898	1.00	1.00	2198.0898
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	55585501	2264.31	2264.3127	1.00	1.00	2264.3127
TROIL:12-22	55585501	5.56e-06	5.5586e-06	1.00	1.00	5.5586e-06
DSL:12-24	56118755	2253.86	2253.8573	1.00	1.00	2253.8573
DSL:10-28	65734212	2199.45	2199.4475	1.00	1.00	2199.4475
DSL:12-32	56378140	2251.71	2251.7080	1.00	1.00	2251.7080
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	56426499	2248.90	2248.8960	1.00	1.00	2248.8960
TROIL:12-40	56426499	1739.01	1739.0129	1.00	1.00	1739.0129
BUNKC:12-40	56426499	4883.15	4883.1457	1.00	1.00	4883.1457
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	792639	40.89	40.8853	1.00	1.00	40.8853
MO:20-36	2603245	109.04	109.0382	1.00	1.00	109.0382
MO:22-36	827852	39.14	39.1440	1.00	1.00	39.1440
BUNKC:12-50	56442770	4440.66	4440.6577	1.00	1.00	4440.6577
MO:24-36	294599	17.75	17.7516	1.00	1.00	17.7516
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

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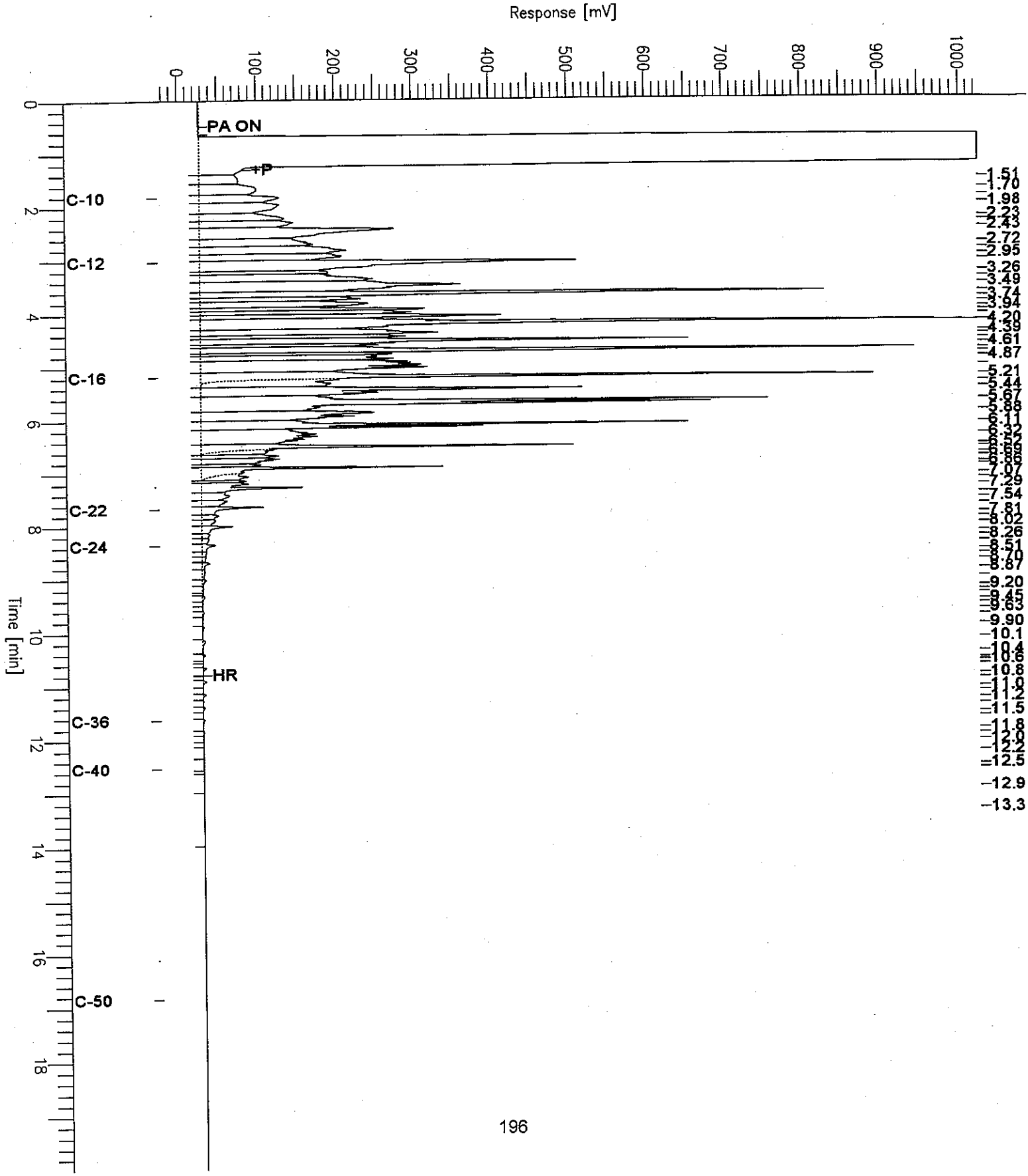
Analyzed By: SV. 11/24/04 Reviewed By: mme 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A012P.TX0

Chromatogram

Sample Name : ical,04ws1743,dsl2500
FileName : G:\GC17\CHA\328A012.RAW
Method : ATEH320.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -25 mV

Sample #: 2500mg/L Page 1 of 1
Date : 11/24/04 11:12 AM
Time of Injection: 11/23/04 07:02 PM
Low Point : -25.38 mV High Point : 1024.00 mV
Plot Scale: 1049.4 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:13 AM
Sample Name : ical,04ws1742,dsl5000
Data File : G:\GC17\CHA\328A013.RAW Date: 11/23/04 07:30 PM
Sequence File: G:\GC17\328.SEQ Cycle: 13 Channel : A
Instrument : GC17 Rack/Vial: 0/13 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	84022249	3222.51	3222.5061	1.00	1.00	3222.5061
KER:10-16	84022249	8.40e-06	8.4022e-06	1.00	1.00	8.4022e-06
JP5:10-16	84022249	3781.63	3781.6292	1.00	1.00	3781.6292
JP8:10-16	84022249	4883.88	4883.8833	1.00	1.00	4883.8833
DSL:10-20	123903878	4367.11	4367.1071	1.00	1.00	4367.1071
DSL:10-22	127874063	4340.01	4340.0105	1.00	1.00	4340.0105
GAIAFP:10-24	128901848	7343.99	7343.9883	1.00	1.00	7343.9883
DSL:10-24	128901848	4323.47	4323.4656	1.00	1.00	4323.4656
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	108606923	4424.18	4424.1759	1.00	1.00	4424.1759
TROIL:12-22	108606923	1.09e-05	0.0000	1.00	1.00	0.0000
DSL:12-24	109634707	4403.18	4403.1801	1.00	1.00	4403.1801
DSL:10-28	129279484	4325.65	4325.6538	1.00	1.00	4325.6538
DSL:12-32	110069084	4396.09	4396.0911	1.00	1.00	4396.0911
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	110075527	4387.10	4387.0951	1.00	1.00	4387.0951
TROIL:12-40	110075527	3392.43	3392.4267	1.00	1.00	3392.4267
BUNKC:12-40	110075527	9525.93	9525.9291	1.00	1.00	9525.9291
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1462162	75.42	75.4200	1.00	1.00	75.4200
MO:20-36	5436059	227.69	227.6921	1.00	1.00	227.6921
MO:22-36	1465874	69.31	69.3121	1.00	1.00	69.3121
BUNKC:12-50	110087031	8661.14	8661.1416	1.00	1.00	8661.1416
MO:24-36	438090	26.40	26.3980	1.00	1.00	26.3980
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

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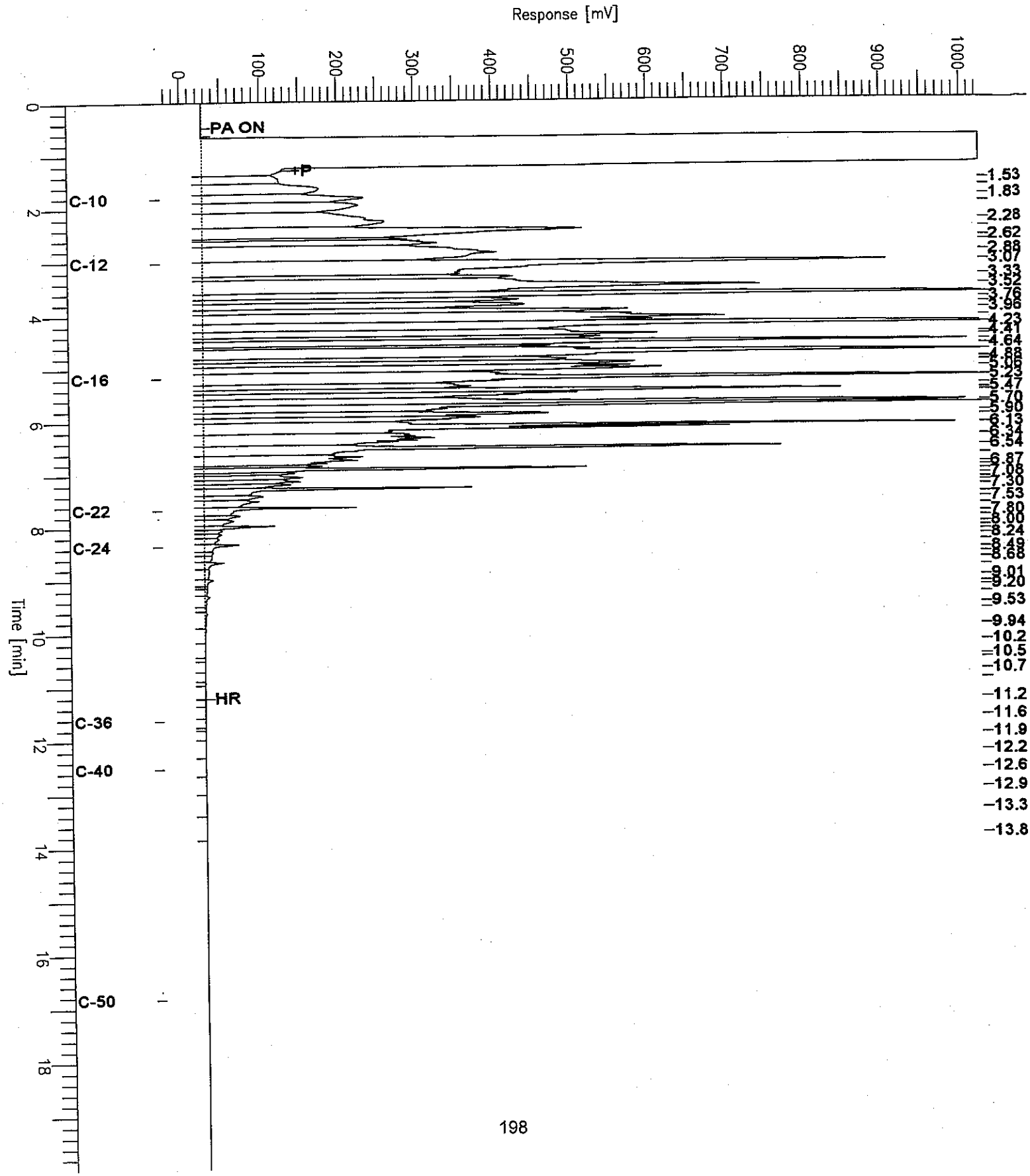
Analyzed By: CV. 11/24/04 Reviewed By: MMP 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A013P.TXO

Chromatogram

Sample Name : ical,04ws1742,dsl5000
FileName : G:\GC17\CHA\328A013.RAW
Method : ATEH329.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -25 mV

Sample #: 5000mg/L
Date : 11/24/04 11:13 AM
Time of Injection: 11/23/04 07:30 PM
Low Point : -25.29 mV High Point : 1024.00 mV
Plot Scale: 1049.3 mV



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : GC17A
Seqnum : 174472877015
Run Name : dsl500
Filename : 328a015
Injected : 23-NOV-2004 20:28
Caltype :

Standards: 04WS2006

Analyte	Calnum	Caldate	SpkAmt	QuantAmt	Units	%D	Flags
Diesel C10-C22	174472877001	23-NOV-2004	500.0000	488.3901	mg/L	-2	
Diesel C10-C24	174472877001	23-NOV-2004	500.0000	488.0924	mg/L	-2	
Diesel C10-C28	174472877001	23-NOV-2004	500.0000	485.5358	mg/L	-3	
Diesel C10-C20	174472877001	23-NOV-2004	500.0000	487.9096	mg/L	-2	
Diesel C12-C22	174472877001	23-NOV-2004	500.0000	480.9161	mg/L	-4	
Diesel C12-C24	174472877001	23-NOV-2004	500.0000	480.6776	mg/L	-4	
Diesel C12-C32	174472877001	23-NOV-2004	500.0000	469.0306	mg/L	-6	
Hexacosane	174333230001	19-AUG-2004	50.00000	41.00212	mg/L	-18	

12119392 / 24830.12413 = 488.0922840558

Sr. 11/24/04

* surrogate does not match raw data. Hexacosane is being taken from the old HEX ICAL.

mmp 11/24/04

Software Version: 4.1<2F12>
Date: 11/24/04 11:54 AM
Sample Name : icv,04ws2006,dsl500
Data File : G:\GC17\CHA\328A015.RAW Date: 11/23/04 08:28 PM
Sequence File: G:\GC17\328.SEQ Cycle: 15 Channel : A
Instrument : GC17 Rack/Vial: 0/15 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	8457527	324.37	324.3716	1.00	1.00	324.3716
KER:10-16	8457527	8.46e-07	8.4575e-07	1.00	1.00	8.4575e-07
JP5:10-16	8457527	380.65	380.6519	1.00	1.00	380.6519
JP8:10-16	8457527	491.60	491.6028	1.00	1.00	491.6028
DSL:10-20	11531604	406.44	406.4421	1.00	1.00	406.4421
DSL:10-22	11984065	406.74	406.7359	1.00	1.00	406.7359
GAIAFP:10-24	12119392	690.48	690.4841	1.00	1.00	690.4841
DSL:10-24	12119392	406.49	406.4936	1.00	1.00	406.4936
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	10360612	422.05	422.0465	1.00	1.00	422.0465
TROIL:12-22	10360612	1.04e-06	1.0361e-06	1.00	1.00	1.0361e-06
DSL:12-24	10495939	421.54	421.5409	1.00	1.00	421.5409
DSL:10-28	13509899	452.04	452.0373	1.00	1.00	452.0373
DSL:12-32	11888452	474.82	474.8174	1.00	1.00	474.8174
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	11891068	473.92	473.9223	1.00	1.00	473.9223
TROIL:12-40	11891068	366.47	366.4718	1.00	1.00	366.4718
BUNKC:12-40	11891068	1029.05	1029.0522	1.00	1.00	1029.0522
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1527840	78.81	78.8078	1.00	1.00	78.8078
MO:20-36	1981618	83.00	83.0011	1.00	1.00	83.0011
MO:22-36	1529157	72.30	72.3043	1.00	1.00	72.3043
BUNKC:12-50	11892170	935.62	935.6212	1.00	1.00	935.6212
MO:24-36	1393830	83.99	83.9879	1.00	1.00	83.9879
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

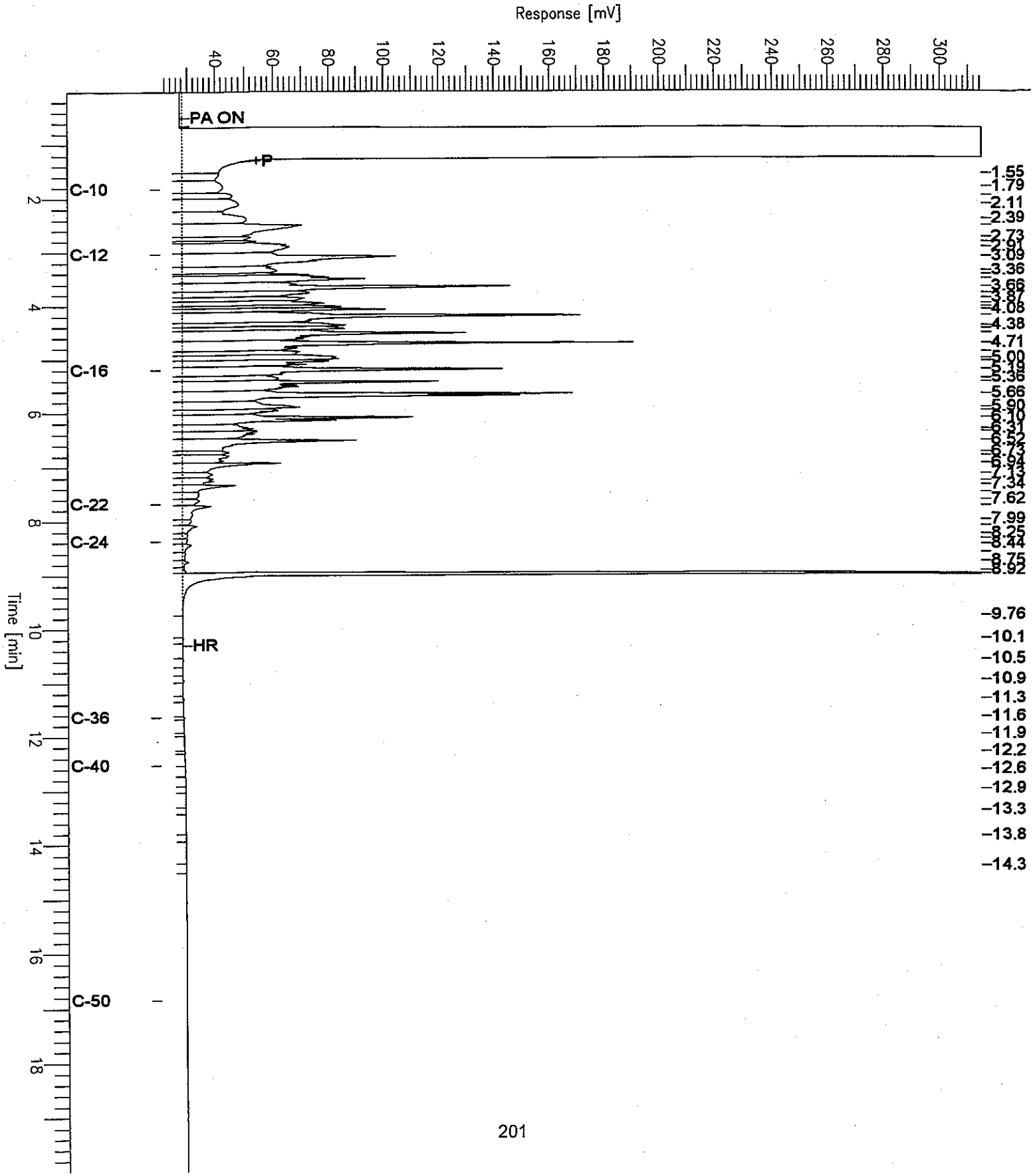
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\328A015P.TX0

Chromatogram

Sample Name : icv,04ws2006,dsl500
FileName : G:\GC17\CHA\328A015.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 20 mV

Sample #: 500mg/L
Date : 11/24/04 11:54 AM
Time of Injection: 11/23/04 08:28 PM
Low Point : 20.28 mV High Point : 314.64 mV
Plot Scale: 294.4 mV



Software Version: 4.1<2F12>
Date: 11/24/04 12:14 PM
Sample Name : icv,04ws2006,dsl500
Data File : G:\GC17\CHA\328A015.RAW Date: 11/23/04 08:28 PM
Sequence File: G:\GC17\328.SEQ Cycle: 15 Channel : A
Instrument : GC17 Rack/Vial: 0/15 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1341225	48.96	48.9597			8.987	97.9194

CURTIS & TOMPKINS,LTD. BERKELEY

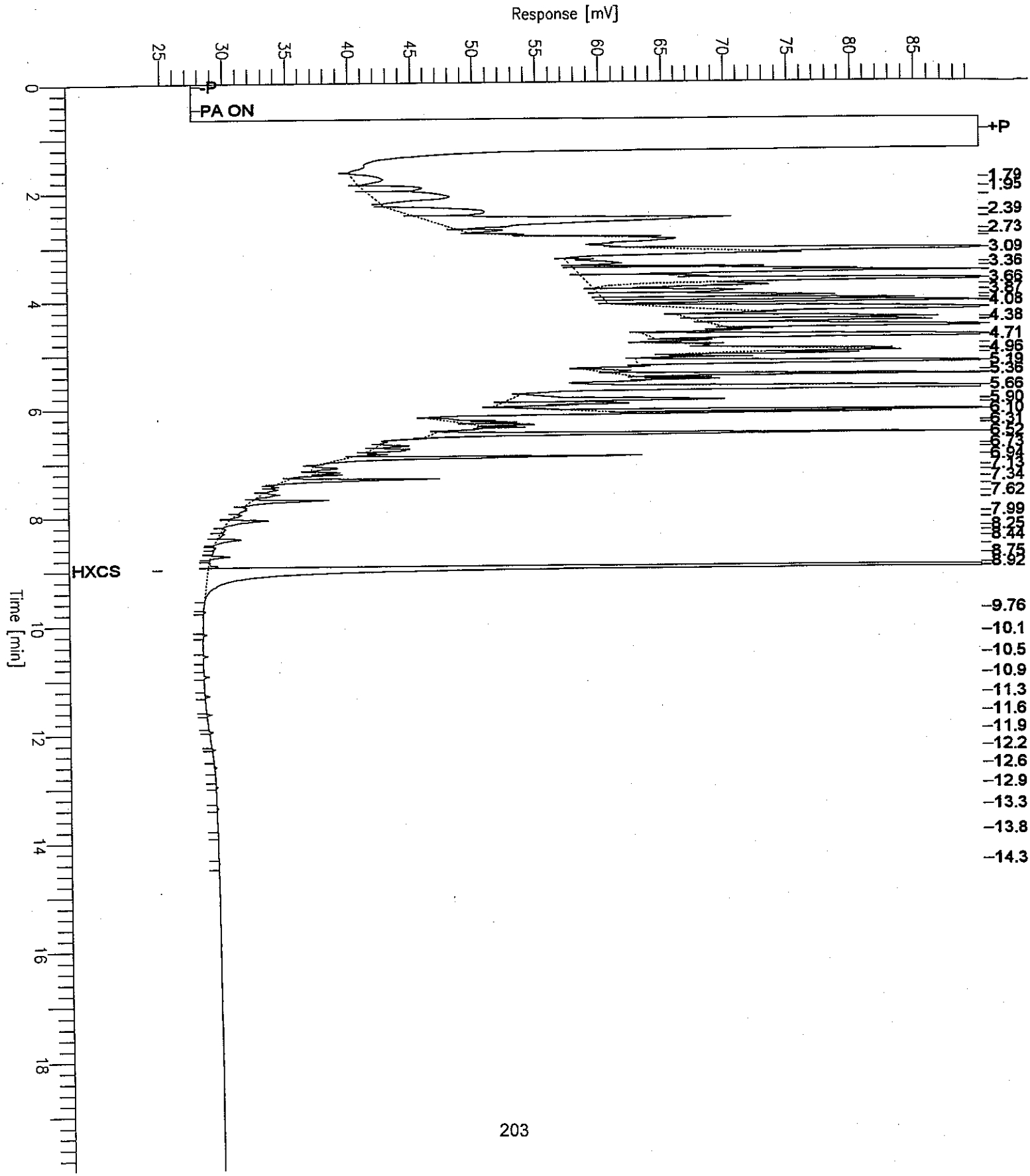
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\328A015.TX0

Chromatogram

Sample Name : icv,04ws2006,dsl500
FileName : G:\GC17\CHA\328A015.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 11/24/04 12:14 PM
Time of Injection: 11/23/04 08:28 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By:
Calnum: 174472877002 Name: Motor Oil Type: (normal) Date: 23-NOV-2004 21:25 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328a017	174472877017	mo50	23-NOV-2004 21:25	04WS2172
2	328a018	174472877018	mo250	23-NOV-2004 21:53	04WS2173
3	328a019	174472877019	mo500	23-NOV-2004 22:22	04WS2174
4	328a020	174472877020	mo1000	23-NOV-2004 22:50	04WS2175
5	328a021	174472877021	mo2500	23-NOV-2004 23:19	04WS2176
6	328a022	174472877022	mo5000	23-NOV-2004 23:47	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	Units	avg	XRSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C12-C50	24199	25236	26043	25489	24890	26193	AVRG	R		3.946E-5		mg/L	25342	3	0.995	20	
Motor Oil C20-C36	23062	24534	25193	25079	24096	25217	AVRG	R		4.077E-5		mg/L	24530	3	0.995	20	
Motor Oil C22-C32	18858	19401	19278	20735	19940	20765	AVRG	R		5.043E-5		mg/L	19830	4	0.995	20	
Motor Oil C22-C36	20692	21825	22164	22566	22003	23053	AVRG	R		4.535E-5		mg/L	22050	4	0.995	20	
Motor Oil C24-C36	16717	17917	18715	18507	17959	19057	AVRG	R		5.511E-5		mg/L	18145	5	0.995	20	

Cov. 11/24/09

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 11/24/04 11:17 AM
Sample Name : ical,04ws2172,mo50
Data File : G:\GC17\CHA\328A017.RAW Date: 11/23/04 09:25 PM
Sequence File: G:\GC17\328.SEQ Cycle: 17 Channel : A
Instrument : GC17 Rack/Vial: 0/17 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-20	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	118502	4.02	4.0219	1.00	1.00	4.0219
GAIAFP:10-24	317231	18.07	18.0738	1.00	1.00	18.0738
DSL:10-24	317231	10.64	10.6402	1.00	1.00	10.6402
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	118502	4.83	4.8273	1.00	1.00	4.8273
TROIL:12-22	118502	1.19e-08	1.1850e-08	1.00	1.00	1.1850e-08
DSL:12-24	317231	12.74	12.7407	1.00	1.00	12.7407
DSL:10-28	808251	27.04	27.0438	1.00	1.00	27.0438
DSL:12-32	1061417	42.39	42.3923	1.00	1.00	42.3923
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	1207112	48.11	48.1098	1.00	1.00	48.1098
TROIL:12-40	1207112	37.20	37.2021	1.00	1.00	37.2021
BUNKC:12-40	1207112	104.46	104.4634	1.00	1.00	104.4634
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	942914	48.64	48.6366	1.00	1.00	48.6366
MO:20-36	1153088	48.30	48.2977	1.00	1.00	48.2977
MO:22-36	1034586	48.92	48.9191	1.00	1.00	48.9191
BUNKC:12-50	1209972	95.20	95.1950	1.00	1.00	95.1950
MO:24-36	835857	50.37	50.3662	1.00	1.00	50.3662
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

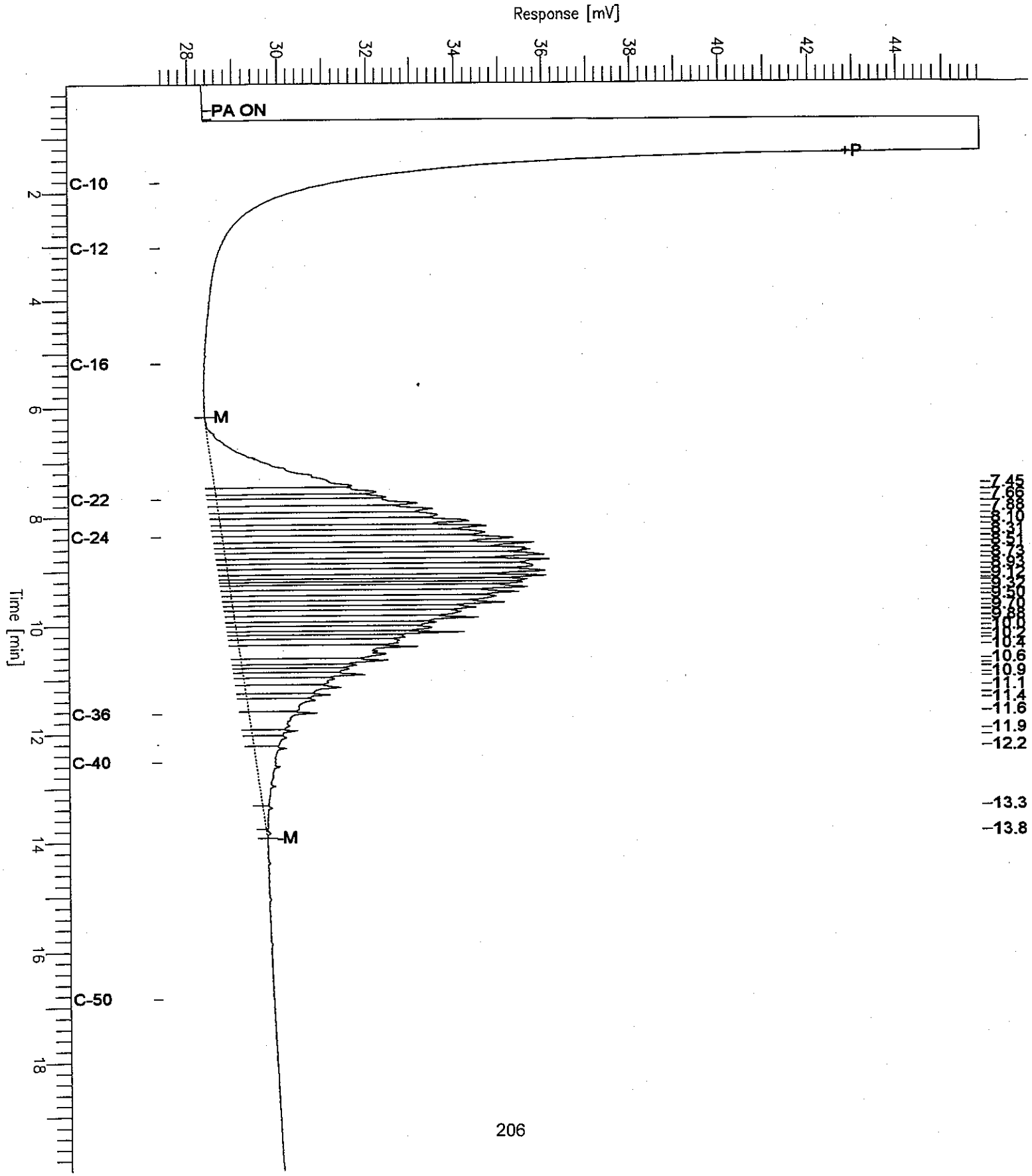
Analyzed By: 6V. 11/24/04 Reviewed By: MMP 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A017P.TX0

Chromatogram

Sample Name : ical,04ws2172,mo50
FileName : G:\GC17\CHA\328A017.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #: 50mg/L
Date : 11/24/04 11:17 AM
Time of Injection: 11/23/04 09:25 PM
Low Point : 27.37 mV High Point : 45.84 mV
Plot Scale: 18.5 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:18 AM
Sample Name : ical,04ws2173,mo250
Data File : G:\GC17\CHA\328A018.RAW Date: 11/23/04 09:53 PM
Sequence File: G:\GC17\328.SEQ Cycle: 18 Channel : A
Instrument : GC17 Rack/Vial: 0/18 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-20	260	0.01	0.0092	1.00	1.00	0.0092
DSL:10-22	677592	23.00	22.9973	1.00	1.00	22.9973
GAIAFP:10-24	1654438	94.26	94.2591	1.00	1.00	94.2591
DSL:10-24	1654438	55.49	55.4911	1.00	1.00	55.4911
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	677592	27.60	27.6022	1.00	1.00	27.6022
TROIL:12-22	677592	6.78e-08	6.7759e-08	1.00	1.00	6.7759e-08
DSL:12-24	1654438	66.45	66.4460	1.00	1.00	66.4460
DSL:10-28	4176144	139.73	139.7326	1.00	1.00	139.7326
DSL:12-32	5527865	220.78	220.7795	1.00	1.00	220.7795
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	6309111	251.45	251.4516	1.00	1.00	251.4516
TROIL:12-40	6309111	194.44	194.4410	1.00	1.00	194.4410
BUNKC:12-40	6309111	545.99	545.9900	1.00	1.00	545.9900
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	4850272	250.18	250.1828	1.00	1.00	250.1828
MO:20-36	6133461	256.90	256.9031	1.00	1.00	256.9031
MO:22-36	5456129	257.99	257.9863	1.00	1.00	257.9863
BUNKC:12-50	6309111	496.37	496.3718	1.00	1.00	496.3718
MO:24-36	4479283	269.91	269.9079	1.00	1.00	269.9079
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

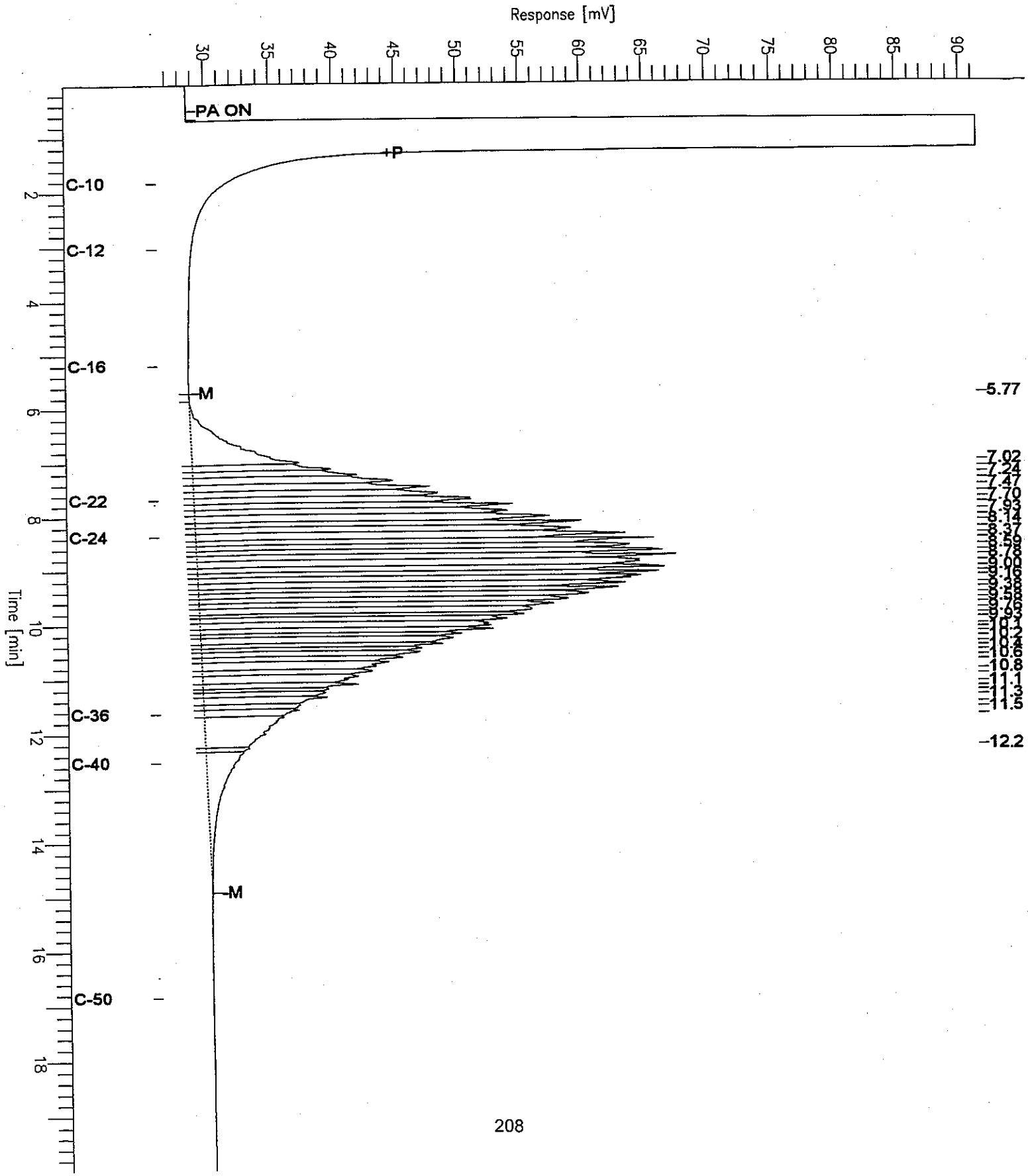
Analyzed By: SV. 11/24/04 Reviewed By: MMP 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A018P.TX0

Chromatogram

Sample Name : ical,04ws2173,mo250
FileName : G:\GC17\CHA\328A018.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 26 mV

Sample #: 250mg/L Page 1 of 1
Date : 11/24/04 11:18 AM
Time of Injection: 11/23/04 09:53 PM
Low Point : 26.29 mV High Point : 91.40 mV
Plot Scale: 65.1 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:20 AM
Sample Name : ical,04ws2174,mo500
Data File : G:\GC17\CHA\328A019.RAW Date: 11/23/04 10:22 PM
Sequence File: G:\GC17\328.SEQ Cycle: 19 Channel : A
Instrument : GC17 Rack/Vial: 0/19 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-20	195440	6.89	6.8885	1.00	1.00	6.8885
DSL:10-22	1709646	58.02	58.0249	1.00	1.00	58.0249
GAIAFP:10-24	3434333	195.67	195.6659	1.00	1.00	195.6659
DSL:10-24	3434333	115.19	115.1901	1.00	1.00	115.1901
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1709646	69.64	69.6436	1.00	1.00	69.6436
TROIL:12-22	1709646	1.71e-07	1.7096e-07	1.00	1.00	1.7096e-07
DSL:12-24	3434333	137.93	137.9306	1.00	1.00	137.9306
DSL:10-28	8571132	286.79	286.7876	1.00	1.00	286.7876
DSL:12-32	11348881	453.27	453.2673	1.00	1.00	453.2673
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	13021611	518.98	518.9804	1.00	1.00	518.9804
TROIL:12-40	13021611	401.31	401.3141	1.00	1.00	401.3141
BUNKC:12-40	13021611	1126.89	1126.8894	1.00	1.00	1126.8894
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	9639235	497.20	497.2031	1.00	1.00	497.2031
MO:20-36	12596380	527.61	527.6059	1.00	1.00	527.6059
MO:22-36	11082174	524.01	524.0069	1.00	1.00	524.0069
BUNKC:12-50	13021611	1024.48	1024.4805	1.00	1.00	1024.4805
MO:24-36	9357488	563.85	563.8535	1.00	1.00	563.8535
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

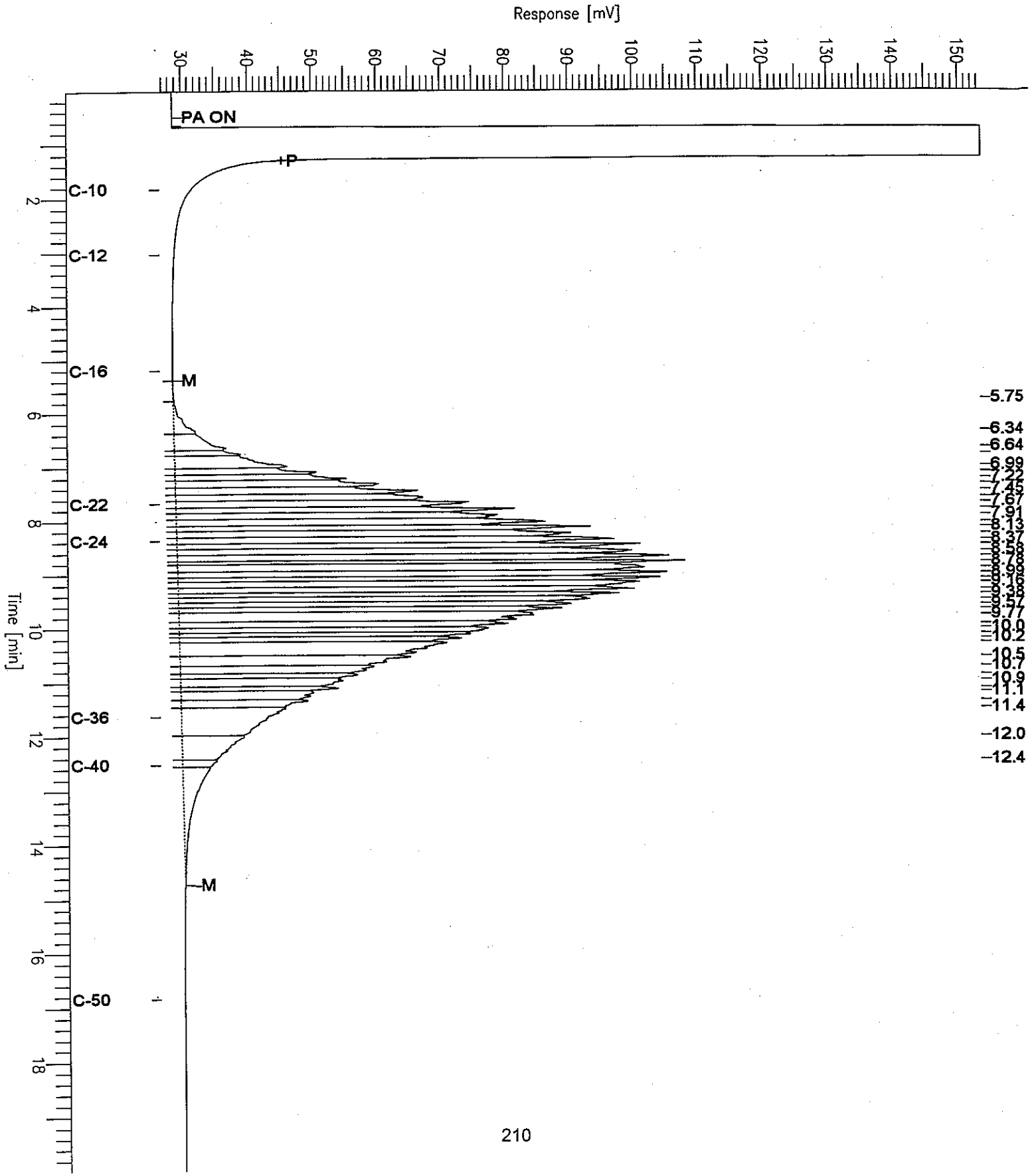
Analyzed By: CR 11/24/04 Reviewed By: mmo 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A019P.TX0

Chromatogram

Sample Name : ical,04ws2174,mo500
FileName : G:\GC17\CHA\328A019.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #: 500mg/L
Date : 11/24/04 11:20 AM
Time of Injection: 11/23/04 10:22 PM
Low Point : 26.73 mV High Point : 153.57 mV
Plot Scale: 126.8 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:21 AM
Sample Name . : ical,04ws2175,mo1000
Data File : G:\GC17\CHA\328A020.RAW Date: 11/23/04 10:50 PM
Sequence File: G:\GC17\328.SEQ Cycle: 20 Channel : A
Instrument : GC17 Rack/Vial: 0/20 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-20	409792	14.44	14.4435	1.00	1.00	14.4435
DSL:10-22	2923120	99.21	99.2099	1.00	1.00	99.2099
GAIAFP:10-24	6981416	397.76	397.7556	1.00	1.00	397.7556
DSL:10-24	6981416	234.16	234.1620	1.00	1.00	234.1620
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	2923120	119.08	119.0753	1.00	1.00	119.0753
TROIL:12-22	2923120	2.92e-07	2.9231e-07	1.00	1.00	2.9231e-07
DSL:12-24	6981416	280.39	280.3896	1.00	1.00	280.3896
DSL:10-28	17484160	585.01	585.0149	1.00	1.00	585.0149
DSL:12-32	23657988	944.89	944.8854	1.00	1.00	944.8854
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	25488789	1015.86	1015.8638	1.00	1.00	1015.8638
TROIL:12-40	25488789	785.54	785.5411	1.00	1.00	785.5411
BUNKC:12-40	25488789	2205.80	2205.7982	1.00	1.00	2205.7982
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	20734868	1069.53	1069.5289	1.00	1.00	1069.5289
MO:20-36	25078997	1050.45	1050.4467	1.00	1.00	1050.4467
MO:22-36	22565669	1066.99	1066.9897	1.00	1.00	1066.9897
BUNKC:12-50	25488789	2005.34	2005.3407	1.00	1.00	2005.3407
MO:24-36	18507373	1115.20	1115.1976	1.00	1.00	1115.1976
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

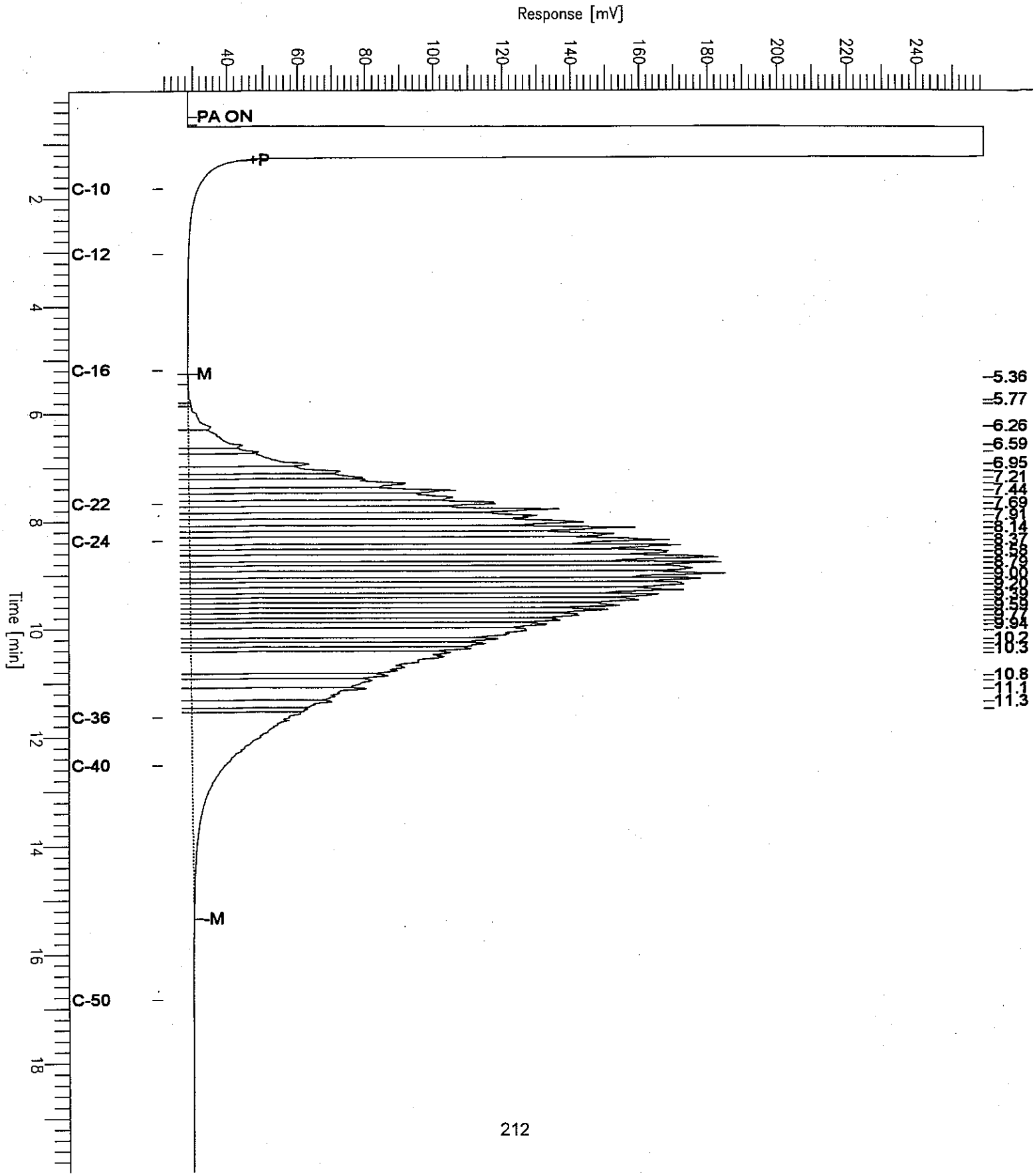
Analyzed By: GV. 11/24/04 Reviewed By: MMM 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A020P.TX0

Chromatogram

Sample Name : ical,04ws2175,mo1000
FileName : G:\GC17\CHA\328A020.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 21 mV

Sample #: 1000mg/L
Date : 11/24/04 11:21 AM
Time of Injection: 11/23/04 10:50 PM
Low Point : 21.49 mV High Point : 258.85 mV
Plot Scale: 237.4 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:22 AM
Sample Name : ical,04ws2176,mo2500
Data File : G:\GC17\CHA\328A021.RAW Date: 11/23/04 11:19 PM
Sequence File: G:\GC17\328.SEQ Cycle: 21 Channel : A
Instrument : GC17 Rack/Vial: 0/21 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	2231	0.09	0.0856	1.00	1.00	0.0856
KER:10-16	2231	2.23e-10	2.2314e-10	1.00	1.00	2.2314e-10
JP5:10-16	2231	0.10	0.1004	1.00	1.00	0.1004
JP8:10-16	2231	0.13	0.1297	1.00	1.00	0.1297
DSL:10-20	1983191	69.90	69.8994	1.00	1.00	69.8994
DSL:10-22	7216385	244.92	244.9221	1.00	1.00	244.9221
GAIAFP:10-24	17327048	987.18	987.1824	1.00	1.00	987.1824
DSL:10-24	17327048	581.16	581.1623	1.00	1.00	581.1623
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	7216385	293.96	293.9643	1.00	1.00	293.9643
TROIL:12-22	7216385	7.22e-07	7.2164e-07	1.00	1.00	7.2164e-07
DSL:12-24	17327048	695.89	695.8938	1.00	1.00	695.8938
DSL:10-28	43186373	1445.00	1445.0034	1.00	1.00	1445.0034
DSL:12-32	57067514	2279.24	2279.2412	1.00	1.00	2279.2412
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	62224067	2479.96	2479.9599	1.00	1.00	2479.9599
TROIL:12-40	62224067	1917.69	1917.6886	1.00	1.00	1917.6886
BUNKC:12-40	62224067	5384.87	5384.8668	1.00	1.00	5384.8668
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	49851128	2571.38	2571.3799	1.00	1.00	2571.3799
MO:20-36	60240877	2523.22	2523.2201	1.00	1.00	2523.2201
MO:22-36	55007682	2600.97	2600.9701	1.00	1.00	2600.9701
BUNKC:12-50	62224067	4895.50	4895.5036	1.00	1.00	4895.5036
MO:24-36	44897020	2705.36	2705.3568	1.00	1.00	2705.3568
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

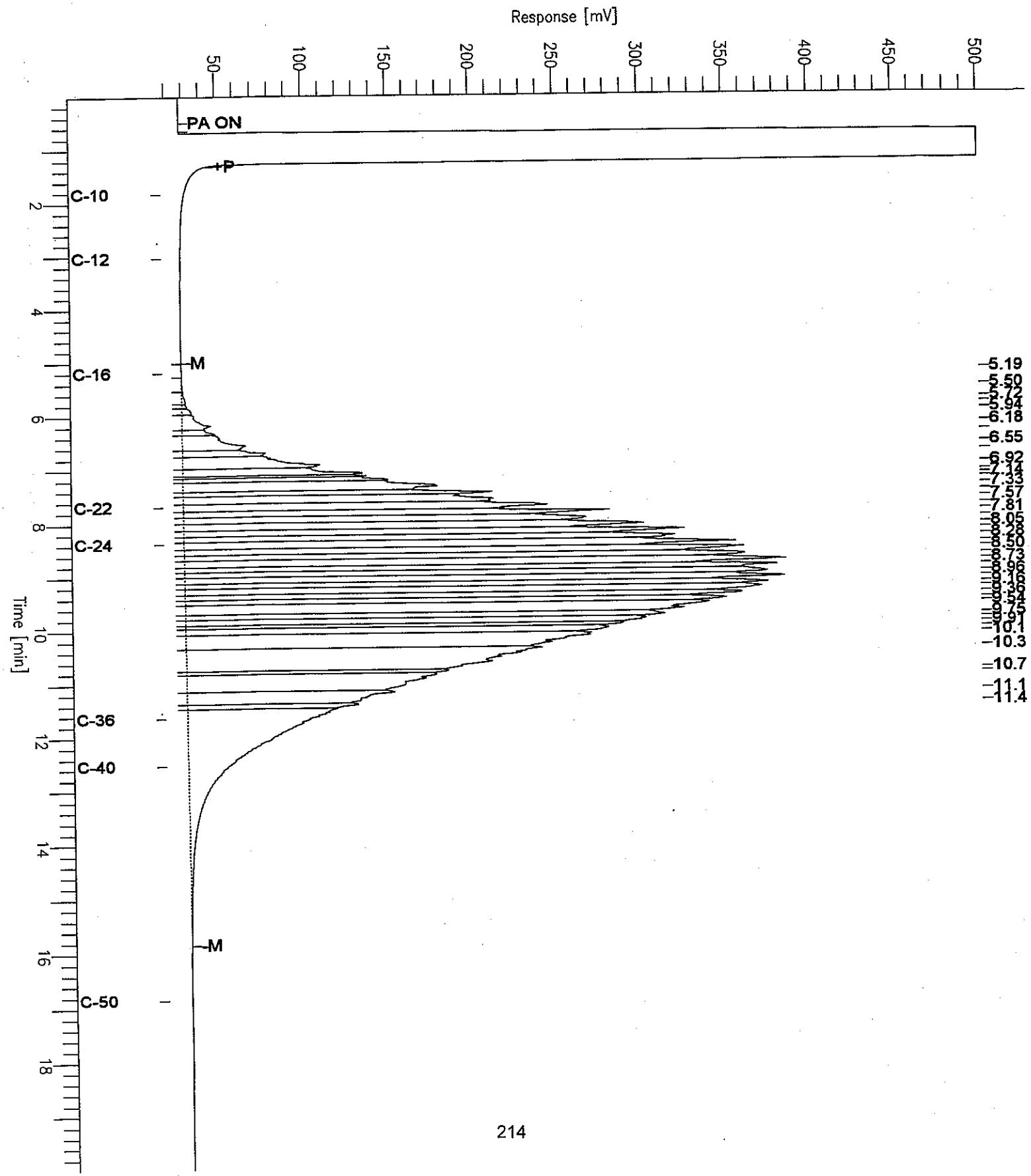
Analyzed By: 11/24/04 Reviewed By: mmp 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A021P.TXO

Chromatogram

Sample Name : ical,04ws2176,mo2500
FileName : G:\GG17\CHA\328A021.RAW
Method : ATEH329.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 2500mg/L
Date : 11/24/04 11:22 AM
Time of Injection: 11/23/04 11:19 PM
Low Point : 17.64 mV High Point : 500.09 mV
Plot Scale: 482.4 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:23 AM
Sample Name : ical,04ws2169,mo5000
Data File : G:\GC17\CHA\328A022.RAW Date: 11/23/04 11:47 PM
Sequence File: G:\GC17\328.SEQ Cycle: 22 Channel : A
Instrument : GC17 Rack/Vial: 0/22 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	18729	0.72	0.7183	1.00	1.00	0.7183
KER:10-16	18729	1.87e-09	1.8729e-09	1.00	1.00	1.8729e-09
JP5:10-16	18729	0.84	0.8429	1.00	1.00	0.8429
JP8:10-16	18729	1.09	1.0886	1.00	1.00	1.0886
DSL:10-20	4316600	152.14	152.1426	1.00	1.00	152.1426
DSL:10-22	15140218	513.85	513.8548	1.00	1.00	513.8548
GAIAFP:10-24	35120020	2000.91	2000.9102	1.00	1.00	2000.9102
DSL:10-24	35120020	1177.95	1177.9521	1.00	1.00	1177.9521
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	15140218	616.75	616.7469	1.00	1.00	616.7469
TROIL:12-22	15140218	1.51e-06	1.5140e-06	1.00	1.00	1.5140e-06
DSL:12-24	35120020	1410.50	1410.5002	1.00	1.00	1410.5002
DSL:10-28	94730971	3169.67	3169.6707	1.00	1.00	3169.6707
DSL:12-32	118965591	4751.41	4751.4120	1.00	1.00	4751.4120
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	130403644	5197.28	5197.2786	1.00	1.00	5197.2786
TROIL:12-40	130403644	4018.92	4018.9206	1.00	1.00	4018.9206
BUNKC:12-40	130403644	11285.12	11285.1230	1.00	1.00	11285.1230
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	103825373	5355.44	5355.4351	1.00	1.00	5355.4351
MO:20-36	126087043	5281.22	5281.2206	1.00	1.00	5281.2206
MO:22-36	115263426	5450.09	5450.0883	1.00	1.00	5450.0883
BUNKC:12-50	130962751	10303.55	10303.5473	1.00	1.00	10303.5473
MO:24-36	95283624	5741.50	5741.4991	1.00	1.00	5741.4991
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

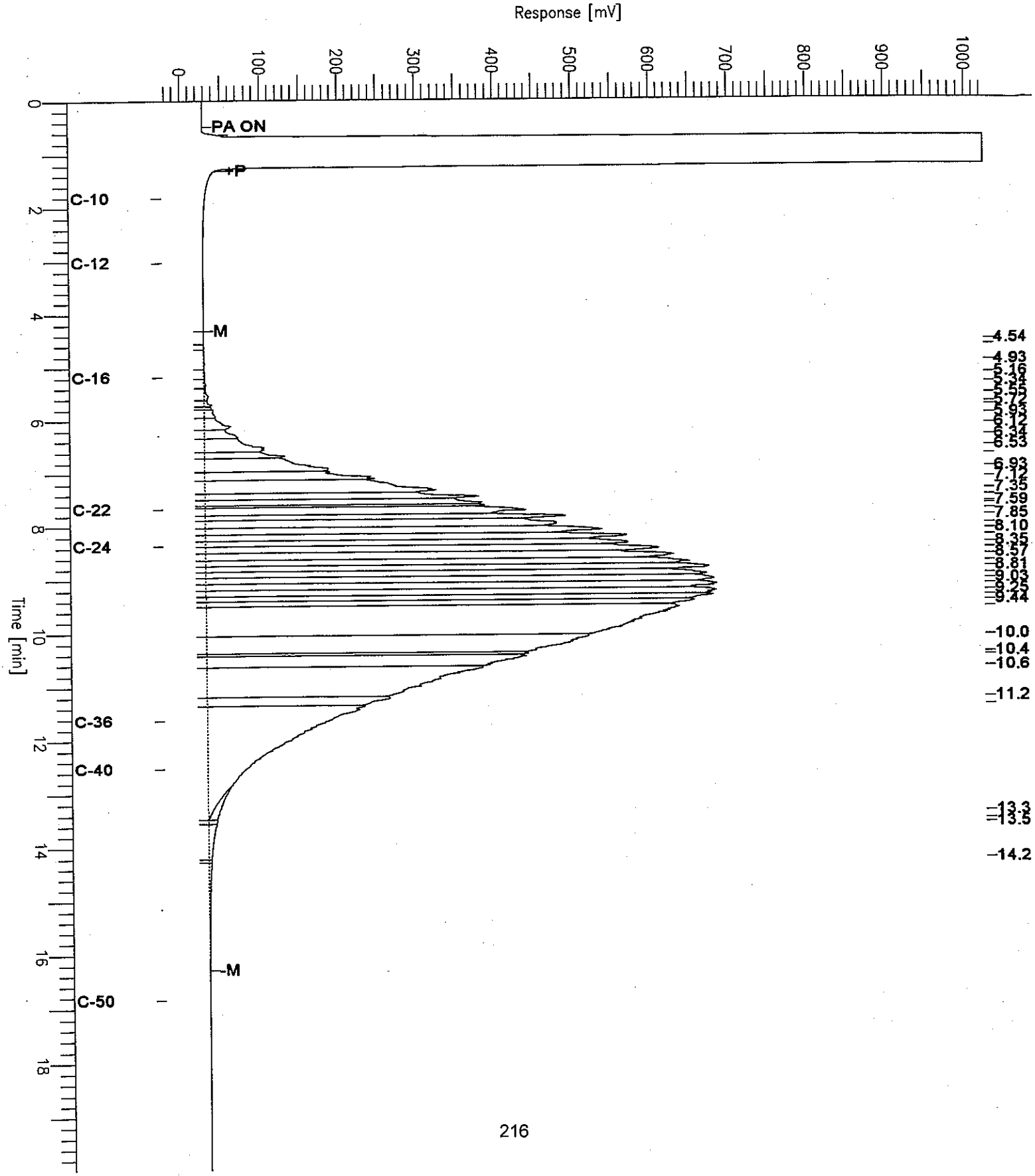
Analyzed By: CSV. 11/24/04 Reviewed By: MMM 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A022P.TX0

Chromatogram

Sample Name : ical,04ws2169,mo5000
FileName : G:\GC17\CHA\328A022.RAW
Method : ATEH329.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -24 mV

Sample #: 5000mg/L
Date : 11/24/04 11:23 AM
Time of Injection: 11/23/04 11:47 PM
Low Point : -23.64 mV High Point : 1024.00 mV
Plot Scale: 1047.6 mV



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By:
Calnum: 174472877003 Name: Hexacosane Type: (normal) Date: 24-NOV-2004 00:44 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	328a024	174472877024	hex5	24-NOV-2004 00:44	04WS2042
2	328a025	174472877025	hex10	24-NOV-2004 01:13	04WS2043
3	328a026	174472877026	hex25	24-NOV-2004 01:41	04WS2044
4	328a027	174472877027	hex50	24-NOV-2004 02:10	04WS2045
5	328a028	174472877028	hex75	24-NOV-2004 02:38	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	26996	26230	26764	26858	30125	AVRG R		3.650E-5		mg/L	27394	6	0.995	20	

217

SN. 11/24/04

MMP 11/24/04

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Software Version: 4.1<2F12>
Date: 11/24/04 11:35 AM
Sample Name. : ical,04ws2042,hex5
Data File : G:\GC17\CHA\328A024.RAW Date: 11/24/04 12:44 AM
Sequence File: G:\GC17\328.SEQ Cycle: 24 Channel : A
Instrument : GC17 Rack/Vial: 0/24 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	134980	4.13	4.1264			9.016	8.2528

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: CV. 11/24/04 Reviewed By: MMP 11/24/04

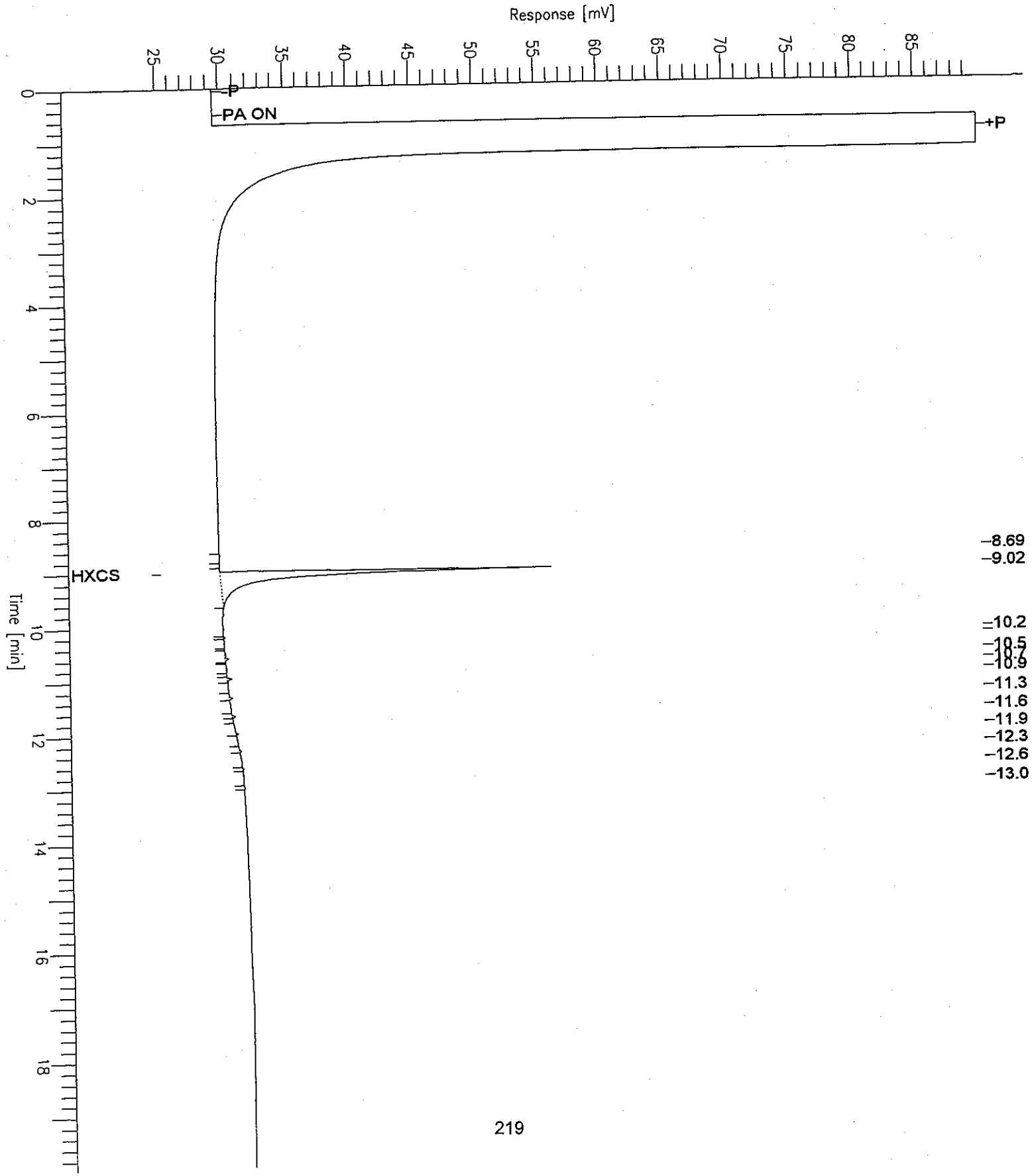
Report stored in ASCII file: G:\GC17\CHA\328A024.TXO

Chromatogram

Sample Name : ical,04ws2042,hex5
FileName : G:\GC17\CHA\328A024.raw
Method : 20mina
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 5mg/L
Date : 11/24/04 11:35 AM
Time of Injection: 11/24/04 12:44 AM
Low Point : 25.00 mV
High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:35 AM
Sample Name : ical,04ws2043,hex10
Data File : G:\GC17\CHA\328A025.RAW Date: 11/24/04 01:13 AM
Sequence File: G:\GC17\328.SEQ Cycle: 25 Channel : A
Instrument : GC17 Rack/Vial: 0/25 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	262295	8.02	8.0185			8.986	16.0370

CURTIS & TOMPKINS,LTD. BERKELEY

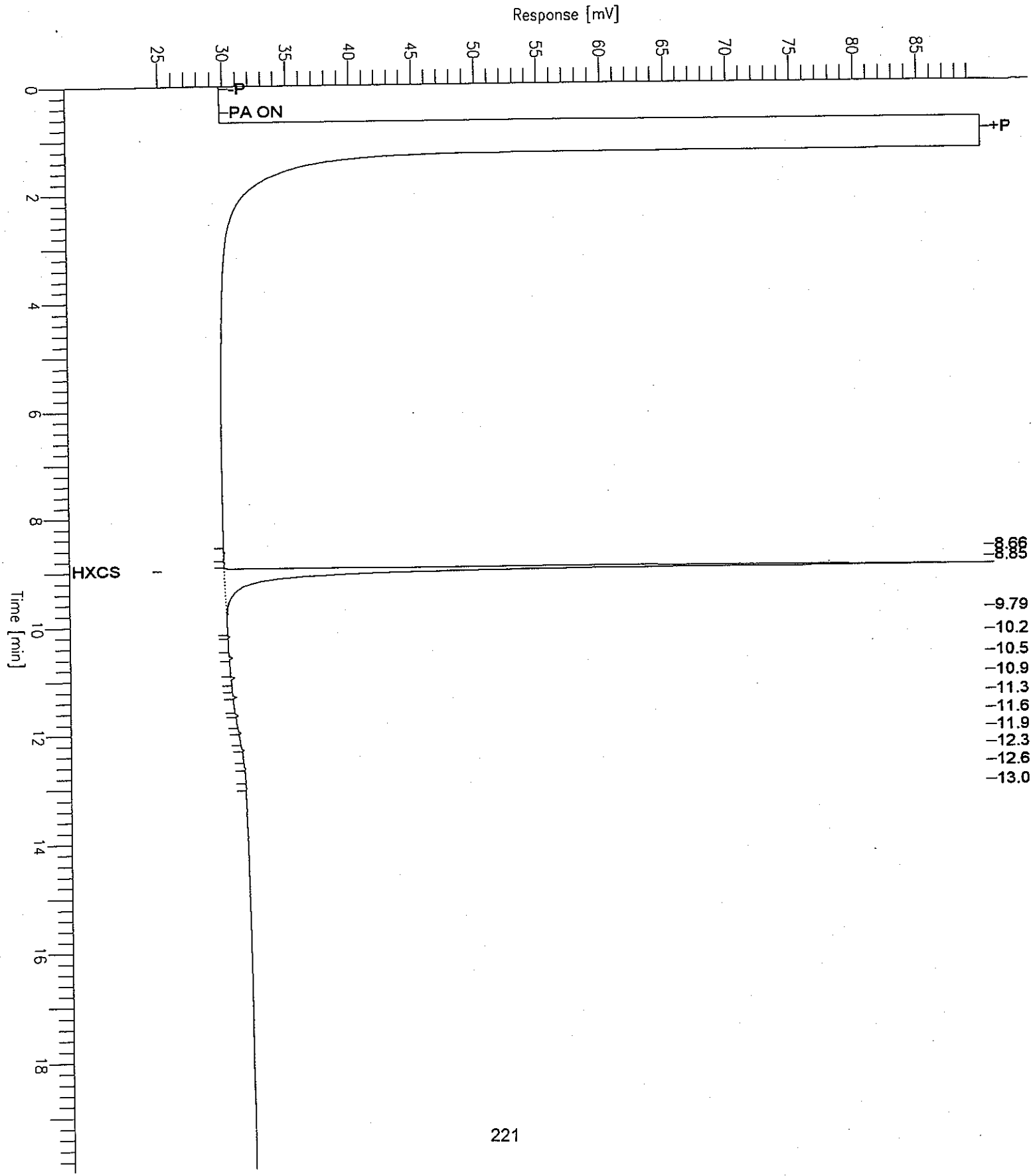
Analyzed By: SV, 11/24/04 Reviewed By: mme 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A025.TXO

Chromatogram

Sample Name : ical,04ws2043,hex10
FileName : G:\GC17\CHA\328A025.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 10mg/L
Date : 11/24/04 11:35 AM
Time of Injection: 11/24/04 01:13 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:35 AM
Sample Name : ical,04ws2044,hex25
Data File : G:\GC17\CHA\328A026.RAW Date: 11/24/04 01:41 AM
Sequence File: G:\GC17\328.SEQ Cycle: 26 Channel : A
Instrument : GC17 Rack/Vial: 0/26 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	669105	20.45	20.4550			8.977	40.9099

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By: G.V. 11/24/04 Reviewed By: mmr 11/24/04

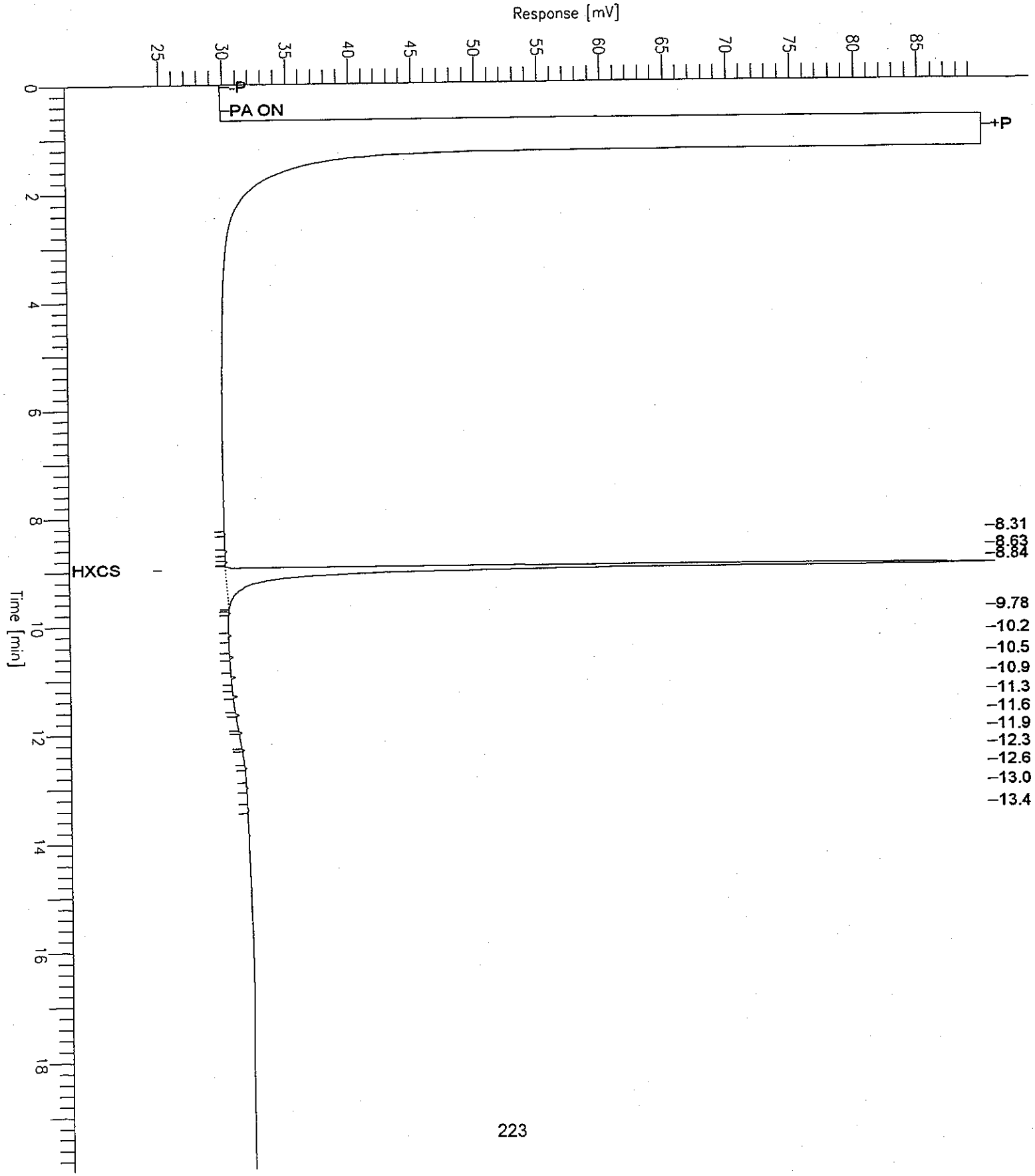
Report stored in ASCII file: G:\GC17\CHA\328A026.TX0

Chromatogram

Sample Name : ical,04ws2044,hex25
FileName : G:\GC17\CHA\328A026.raw
Method : 20mina
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 25mg/L
Date : 11/24/04 11:35 AM
Time of Injection: 11/24/04 01:41 AM
Low Point : 25.00 mV
High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:35 AM
Sample Name : ical,04ws2045,hex50
Data File : G:\GC17\CHA\328A027.RAW Date: 11/24/04 02:10 AM
Sequence File: G:\GC17\328.SEQ Cycle: 27 Channel : A
Instrument : GC17 Rack/Vial: 0/27 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1342896	41.05	41.0532			8.995	82.1064

CURTIS & TOMPKINS,LTD. BERKELEY

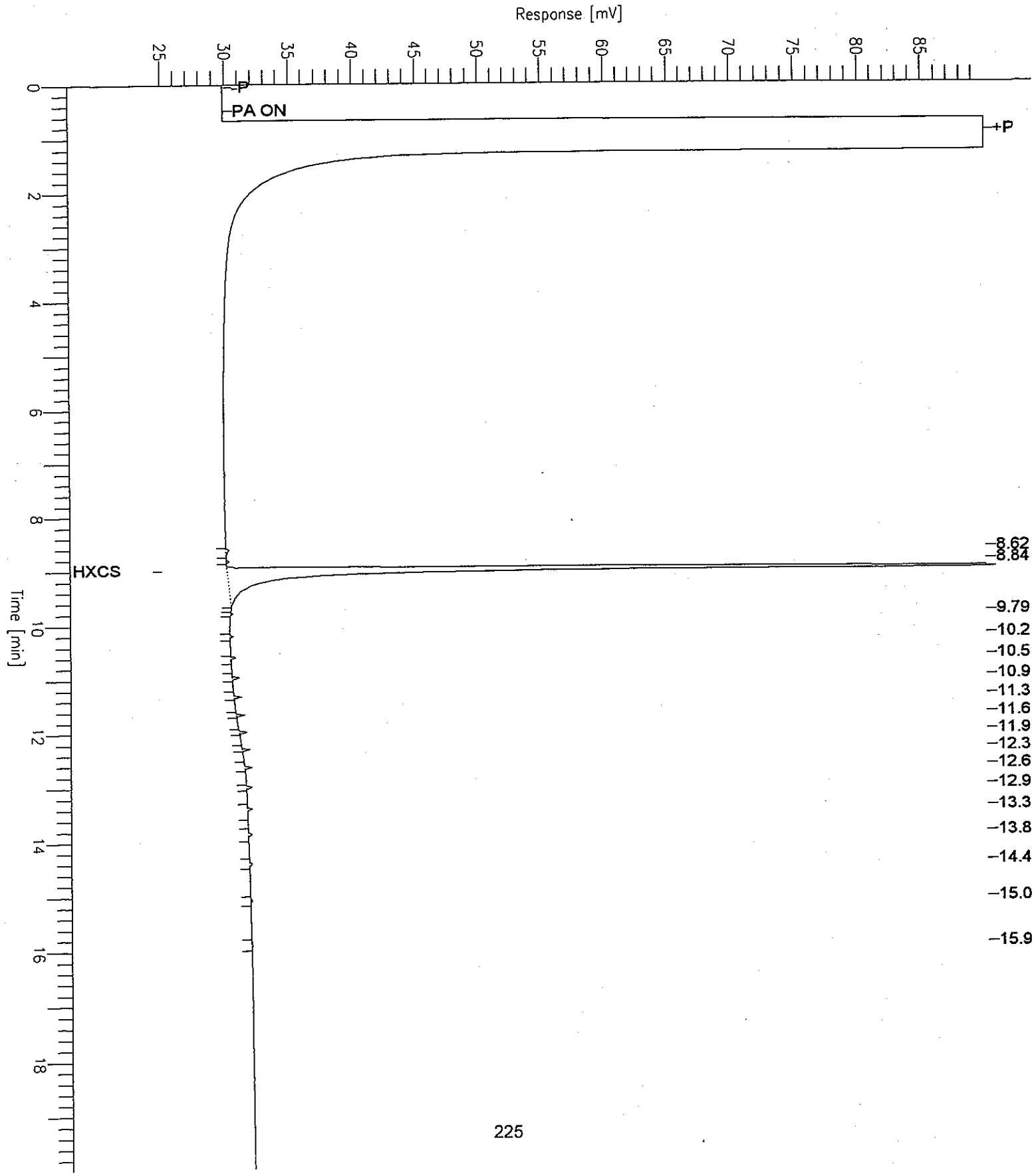
Analyzed By: C.V. 11/24/04 Reviewed By: mmp 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A027.TXO

Chromatogram

Sample Name : ical,04ws2045,hex50
FileName : G:\GC17\CHA\328A027.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 50mg/L
Date : 11/24/04 11:35 AM
Time of Injection: 11/24/04 02:10 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 11/24/04 11:35 AM
Sample Name : ical,04ws2046,hex75
Data File : G:\GC17\CHA\328A028.RAW Date: 11/24/04 02:38 AM
Sequence File: G:\GC17\328.SEQ Cycle: 28 Channel : A
Instrument : GC17 Rack/Vial: 0/28 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	2259357	69.07	69.0700			9.008	138.1400

CURTIS & TOMPKINS,LTD. BERKELEY

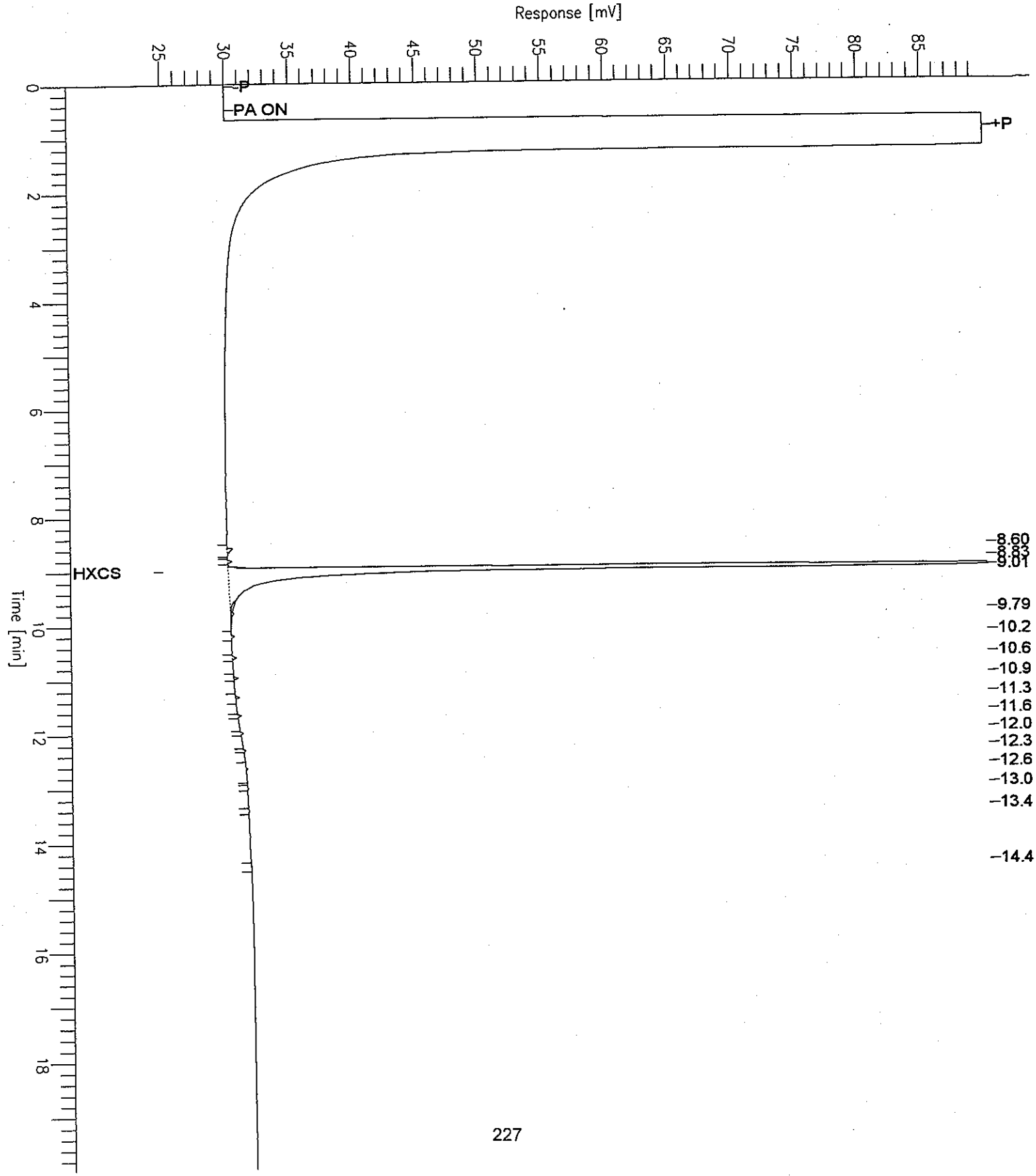
Analyzed By: S.V. 11/24/04 Reviewed By: mmm 11/24/04

Report stored in ASCII file: G:\GC17\CHA\328A028.TX0

Chromatogram

Sample Name : ical,04ws2046,hex75
FileName : G:\GC17\CHA\328A028.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 75mg/L
Date : 11/24/04 11:35 AM
Time of Injection: 11/24/04 02:38 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg Rf/CF	Rf/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114484417028	02-DEC-2004 00:03	114442646001	02-NOV-2004	21142	23975	250.00	283.50	mg/L	13	15	
GC11A	A	114484417044	02-DEC-2004 07:49	114442646001	02-NOV-2004	21142	24193	500.00	572.15	mg/L	14	15	
GC13B	B	144485974003	02-DEC-2004 12:31	144283164001	14-JUL-2004	18671	18887	500.00	505.79	mg/L	1	15	
GC13B	B	144485974016	02-DEC-2004 19:11	144283164001	14-JUL-2004	18671	21532	1000.0	1153.2	mg/L	15	15	
GC17A	A	174481498090	01-DEC-2004 11:47	174472877001	23-NOV-2004	21836	24383	500.00	558.34	mg/L	12	15	
GC17A	A	174481498105	01-DEC-2004 20:34	174472877001	23-NOV-2004	21836	23806	1000.0	1090.2	mg/L	9	15	

Software Version: 4.1<2F12>
Date: 12/2/04 08:48 AM
Sample Name : ccv,04ws2258,dsl
Data File : G:\GC11\CHA\336A028.RAW Date: 12/2/04 12:03 AM
Sequence File: G:\GC11\336.SEQ Cycle: 28 Channel : A
Instrument : GC11 Rack/Vial: 0/28 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	4107633	183.60	183.6039	1.00	1.00	183.6039
JETA:10-16	4107633	211.85	211.8538	1.00	1.00	211.8538
JP8:10-16	4107633	216.22	216.2198	1.00	1.00	216.2198
JP5:10-16	4107633	166.84	166.8424	1.00	1.00	166.8424
DSL:10-22	6651630	267.16	267.1644	1.00	1.00	267.1644
GAIAFP:10-24	6749440	159.44	159.4443	1.00	1.00	159.4443
DSL:10-24	6749440	268.26	268.2586	1.00	1.00	268.2586
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	5896062	282.39	282.3883	1.00	1.00	282.3883
DSL:10-28	8259619	325.02	325.0172	1.00	1.00	325.0172
DSL:12-24	5993872	283.50	283.5010	1.00	1.00	283.5010
RRFPLH:16-24	2641806	382.33	382.3342	1.00	1.00	382.3342
CRUDE:10-40	8281645	8.28	8.2816	1.00	1.00	8.2816
TRIMSOL:12-36	7517780	305.53	305.5328	1.00	1.00	305.5328
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	7526078	974.09	974.0862	1.00	1.00	974.0862
TRANSOIL:12-40	7526078	261.53	261.5329	1.00	1.00	261.5329
HYFL:12-40	7526078	322.22	322.2190	1.00	1.00	322.2190
MO:22-32	1615891	79.55	79.5460	1.00	1.00	79.5460
MO:20-36	2001265	79.27	79.2673	1.00	1.00	79.2673
MO:22-36	1621718	70.55	70.5481	1.00	1.00	70.5481
HYFL:24-36	1523908	106.63	106.6321	1.00	1.00	106.6321
TPHHF:24-36	1523908	1.52e-07	1.5239e-07	1.00	1.00	1.5239e-07
MO:24-36	1523908	83.85	83.8460	1.00	1.00	83.8460
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A028P.TXO

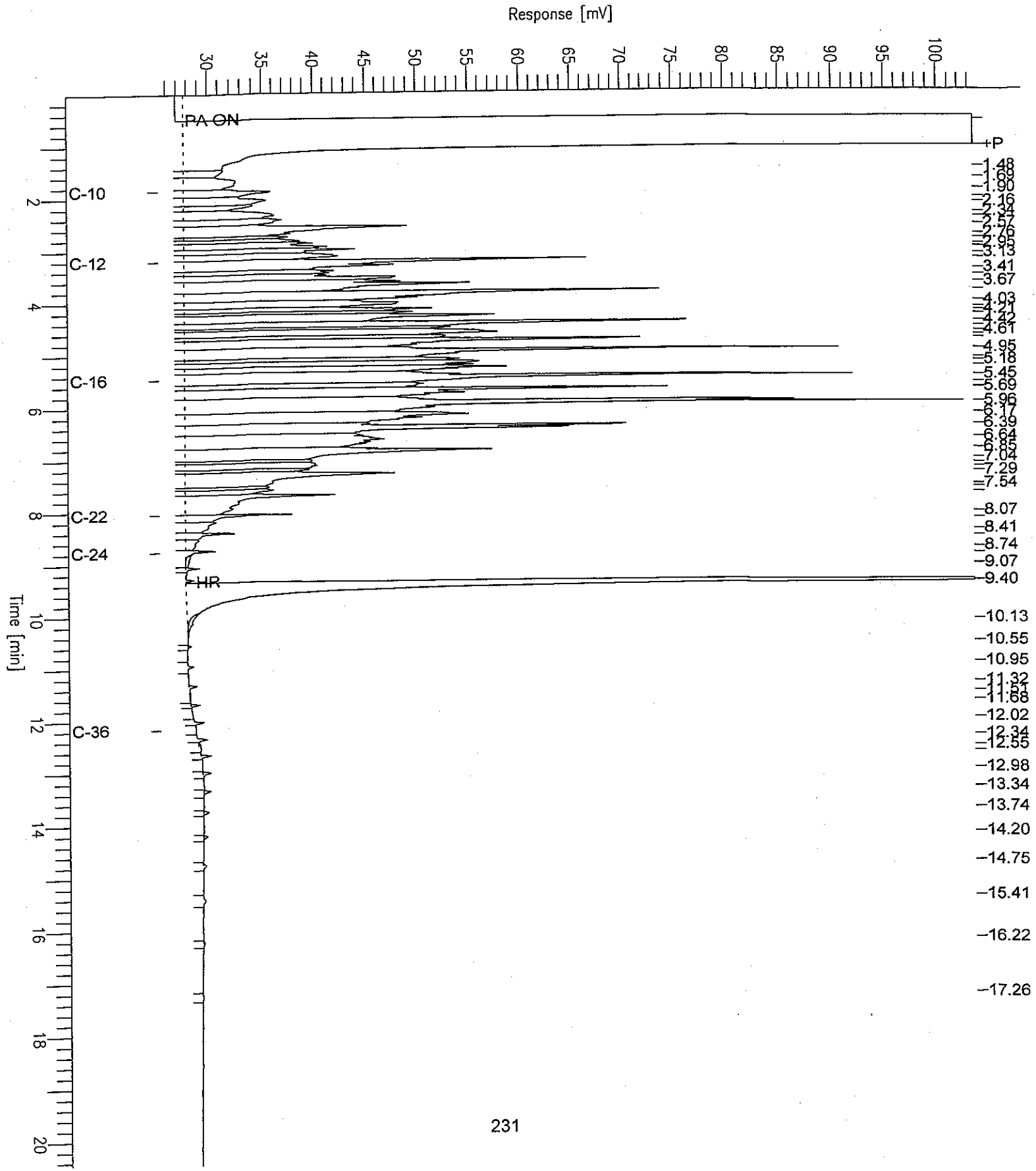
Chromatogram

Sample Name : ccv,04ws2258,dsl
FileName : G:\GC11\CHA\336A028.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 25 mV

Sample #: 250mg/L
Date : 12/2/04 08:48 AM
Time of Injection: 12/2/04 12:03 AM
Low Point : 25.23 mV
Plot Scale: 78.3 mV

High Point : 103.53 mV



Software Version: 4.1<2F12>
Date: 12/2/04 12:23 AM
Sample Name : ccv,04ws2258,dsl
Data File : G:\GC11\CHA\336A028.RAW Date: 12/2/04 12:03 AM
Sequence File: G:\GC11\336.SEQ Cycle: 28 Channel : A
Instrument : GC11 Rack/Vial: 0/28 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1503776	54.84	54.8384			9.398	109.6767

CURTIS & TOMPKINS,LTD. BERKELEY

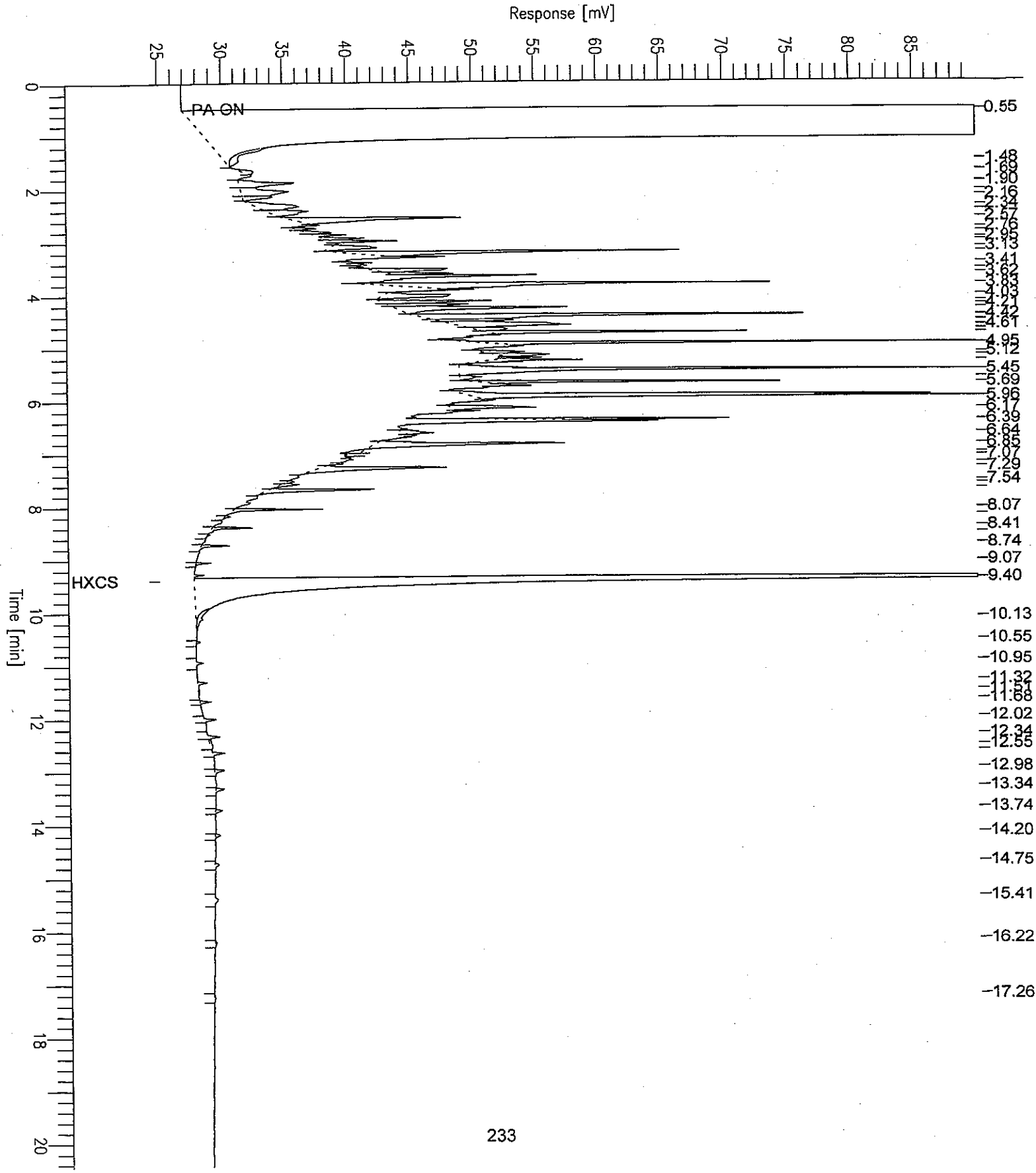
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A028.TX0

Chromatogram

Sample Name : ccv,04ws2258,dsl
FileName : G:\GC11\CHA\336A028.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 250mg/L
Date : 12/2/04 12:23 AM
Time of Injection: 12/2/04 12:03 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/2/04 09:15 AM
Sample Name : ccv,04ws2215,dsl
Data File : G:\GC11\CHA\336A044.RAW Date: 12/2/04 07:49 AM
Sequence File: G:\GC11\336.SEQ Cycle: 44 Channel : A
Instrument : GC11 Rack/Vial: 0/44 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	8559993	382.62	382.6164	1.00	1.00	382.6164
JETA:10-16	8559993	441.49	441.4871	1.00	1.00	441.4871
JP8:10-16	8559993	450.59	450.5854	1.00	1.00	450.5854
JP5:10-16	8559993	347.69	347.6868	1.00	1.00	347.6868
DSL:10-22	13716849	550.94	550.9407	1.00	1.00	550.9407
GAIAFP:10-24	13928413	329.04	329.0356	1.00	1.00	329.0356
DSL:10-24	13928413	553.59	553.5891	1.00	1.00	553.5891
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	11885088	569.23	569.2289	1.00	1.00	569.2289
DSL:10-28	15501535	609.99	609.9876	1.00	1.00	609.9876
DSL:12-24	12096651	572.15	572.1530	1.00	1.00	572.1530
RRFPLH:16-24	5368420	776.94	776.9419	1.00	1.00	776.9419
CRUDE:10-40	15527303	15.53	15.5273	1.00	1.00	15.5273
TRIMSOL:12-36	13687063	556.26	556.2607	1.00	1.00	556.2607
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	13695542	1772.59	1772.5883	1.00	1.00	1772.5883
TRANSOIL:12-40	13695542	475.92	475.9231	1.00	1.00	475.9231
HYFL:12-40	13695542	586.36	586.3564	1.00	1.00	586.3564
MO:22-32	1796768	88.45	88.4500	1.00	1.00	88.4500
MO:20-36	2296283	90.95	90.9526	1.00	1.00	90.9526
MO:22-36	1801975	78.39	78.3897	1.00	1.00	78.3897
HYFL:24-36	1590411	111.29	111.2855	1.00	1.00	111.2855
TPHHF:24-36	1590411	1.59e-07	1.5904e-07	1.00	1.00	1.5904e-07
MO:24-36	1590411	87.51	87.5051	1.00	1.00	87.5051
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A044P.TX0

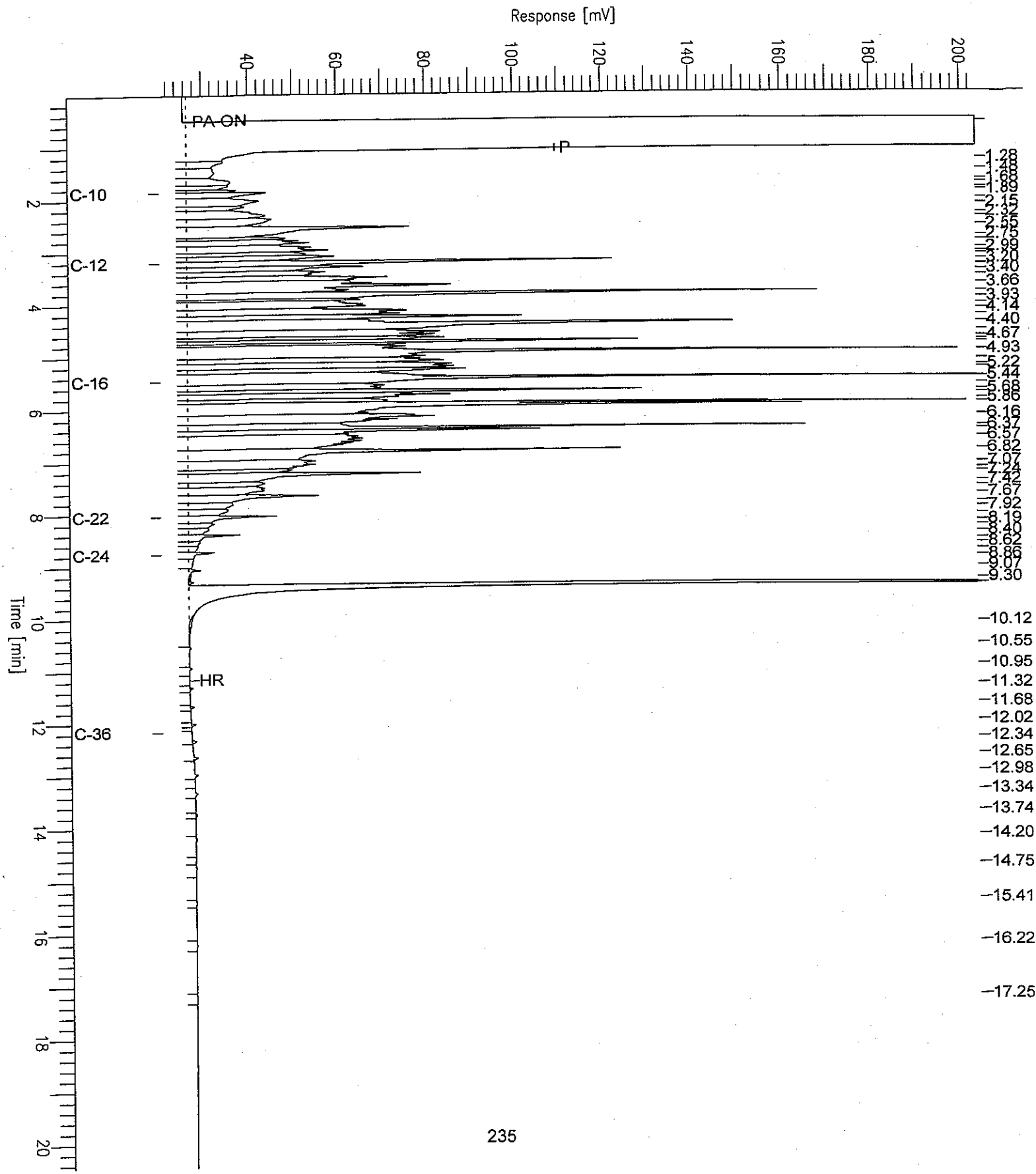
Chromatogram

C.N. 12/02/04

Sample Name : (X) ccv,04ws2215,dsl
FileName : G:\GC11\CHA\336A044.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 21 mV

Sample #: 500mg/L
Date : 12/2/04 09:15 AM
Time of Injection: 12/2/04 07:49 AM
Low Point : 20.59 mV
Plot Scale: 183.0 mV



Software Version: 4.1<2F12>
Date: 12/2/04 08:10 AM GV- 12/02/04
Sample Name : (X) ccv,04ws2215,dsl
Data File : G:\GC11\CHA\336A044.RAW Date: 12/2/04 07:49 AM
Sequence File: G:\GC11\336.SEQ Cycle: 44 Channel : A
Instrument : GC11 Rack/Vial: 0/44 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surr Recovery (%)
Hexacosane	1541935	56.23	56.2299		9.401	112.4598

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A044.TXO

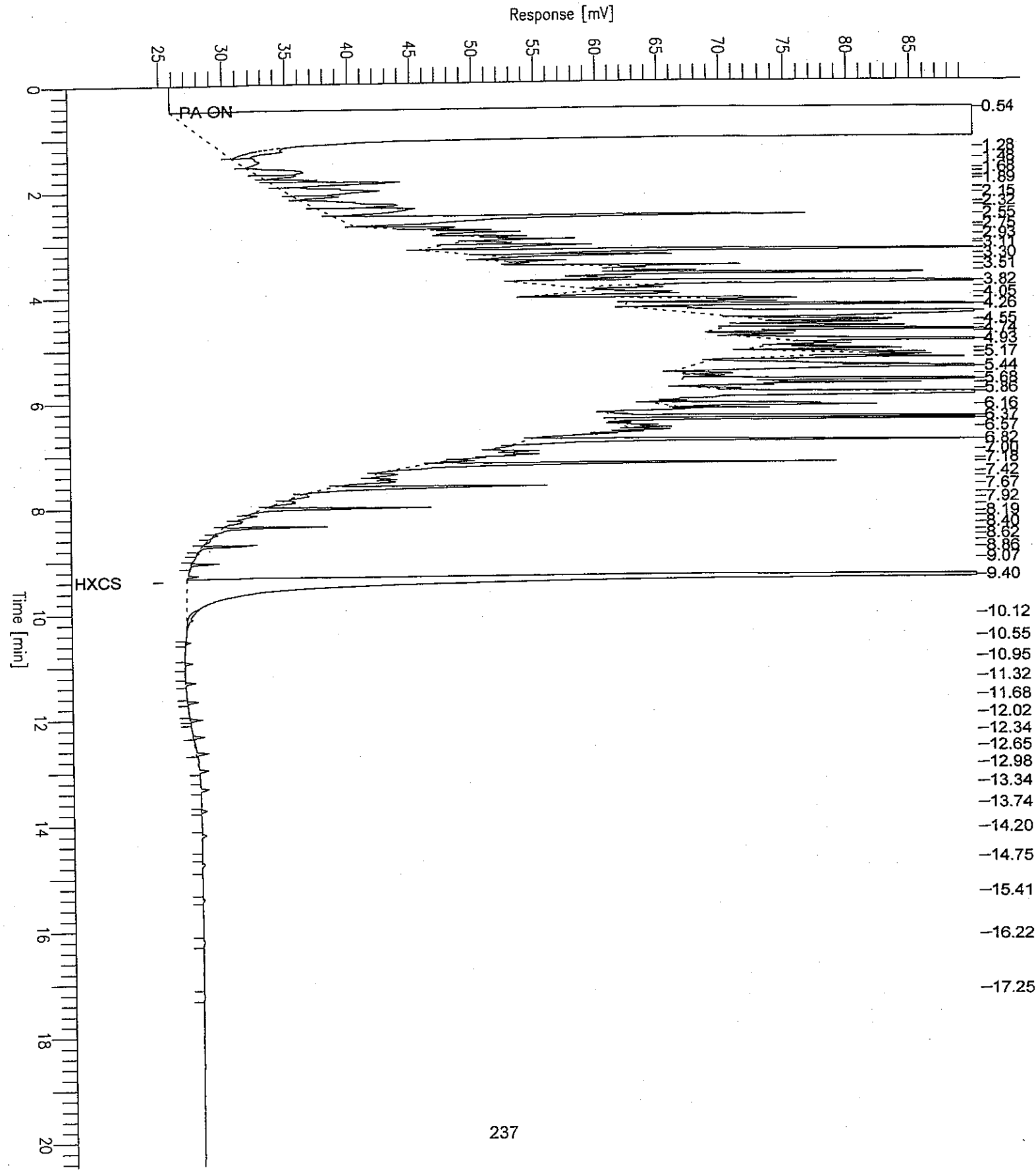
Chromatogram

Sample Name : ccv,04ws2215,dsl
FileName : G:\GC11\CHA\336A044.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 12/2/04 08:10 AM
Time of Injection: 12/2/04 07:49 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



Software Version: 4.1<2F12>
Date: 12/2/04 01:30 PM
Sample Name : ccv,04ws2215,dsl
Data File : G:\GC13\CHB\337B003.RAW Date: 12/2/04 12:31 PM
Sequence File: G:\GC13\337.SEQ Cycle: 3 Channel : B
Instrument : GC13 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.284		0	0.00	1.0000	1.00	0.0000
C-12	3.481		0	0.00	1.0000	1.00	0.0000
JETA:10-16	3.973		6581945	366.96	1.0000	1.00	366.9566
JP5:10-16	3.973		6581945	333.49	1.0000	1.00	333.4851
JP8:10-16	3.973		6581945	413.28	1.0000	1.00	413.2829
KER:10-16	3.973		6581945	359.57	1.0000	1.00	359.5680
DSL:10-20	4.847		10166955	475.19	1.0000	1.00	475.1932
DSL:10-22	5.227		10615520	483.95	1.0000	1.00	483.9476
DSL:10-24	5.576		10727637	485.27	1.0000	1.00	485.2736
GAIAFP:10-24	5.576		10727637	720.34	1.0000	1.00	720.3368
C-16	5.662		0	0.00	1.0000	1.00	0.0000
DSL:12-22	5.825		9331464	504.40	1.0000	1.00	504.4032
DSL:12-24	6.175		9443580	505.79	1.0000	1.00	505.7856
DSL:10-28	6.201		12029011	543.09	1.0000	1.00	543.0887
DSL:12-28	6.799		10744954	574.17	1.0000	1.00	574.1667
DSL:10-36	7.211		12033619	534.01	1.0000	1.00	534.0077
C-20	7.410		0	0.00	1.0000	1.00	0.0000
CRUDE:10-40	7.725		12037632	1.20e-05	1.0000	1.00	0.0000
TRIMSOL:12-36	7.809		10749562	1.07e-06	1.0000	1.00	1.0750e-06
C-22	8.170		0	0.00	1.0000	1.00	0.0000
HYFL:12-40	8.324		10753576	470.00	1.0000	1.00	469.9966
BUNKC:12-40	8.324		10753576	1195.97	1.0000	1.00	1195.9723
TROIL:12-40	8.324		10753576	392.54	1.0000	1.00	392.5416
C-24	8.868		0	0.00	1.0000	1.00	0.0000
MO:22-32	9.684		1415311	74.33	1.0000	1.00	74.3274
MO:20-36	9.774		1866663	78.24	1.0000	1.00	78.2416
C-28	10.117		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.154		1418099	67.19	1.0000	1.00	67.1865
HYFL:24-36	10.503		1305982	97.72	1.0000	1.00	97.7218
MO:24-36	10.503		1305982	77.12	1.0000	1.00	77.1236
TPHHF:24-36	10.503		1305982	1.31e-06	1.0000	1.00	1.3060e-06
C-32	11.197		0	0.00	1.0000	1.00	0.0000
BUNKC:12-50	11.371		10757707	10757706.85	1.0000	1.00	1.0758e+07
C-36	12.138		0	0.00	1.0000	1.00	0.0000
C-40	13.167		0	0.00	1.0000	1.00	0.0000
				10766459.46			

CURTIS & TOMPKINS,LTD. BERKELEY

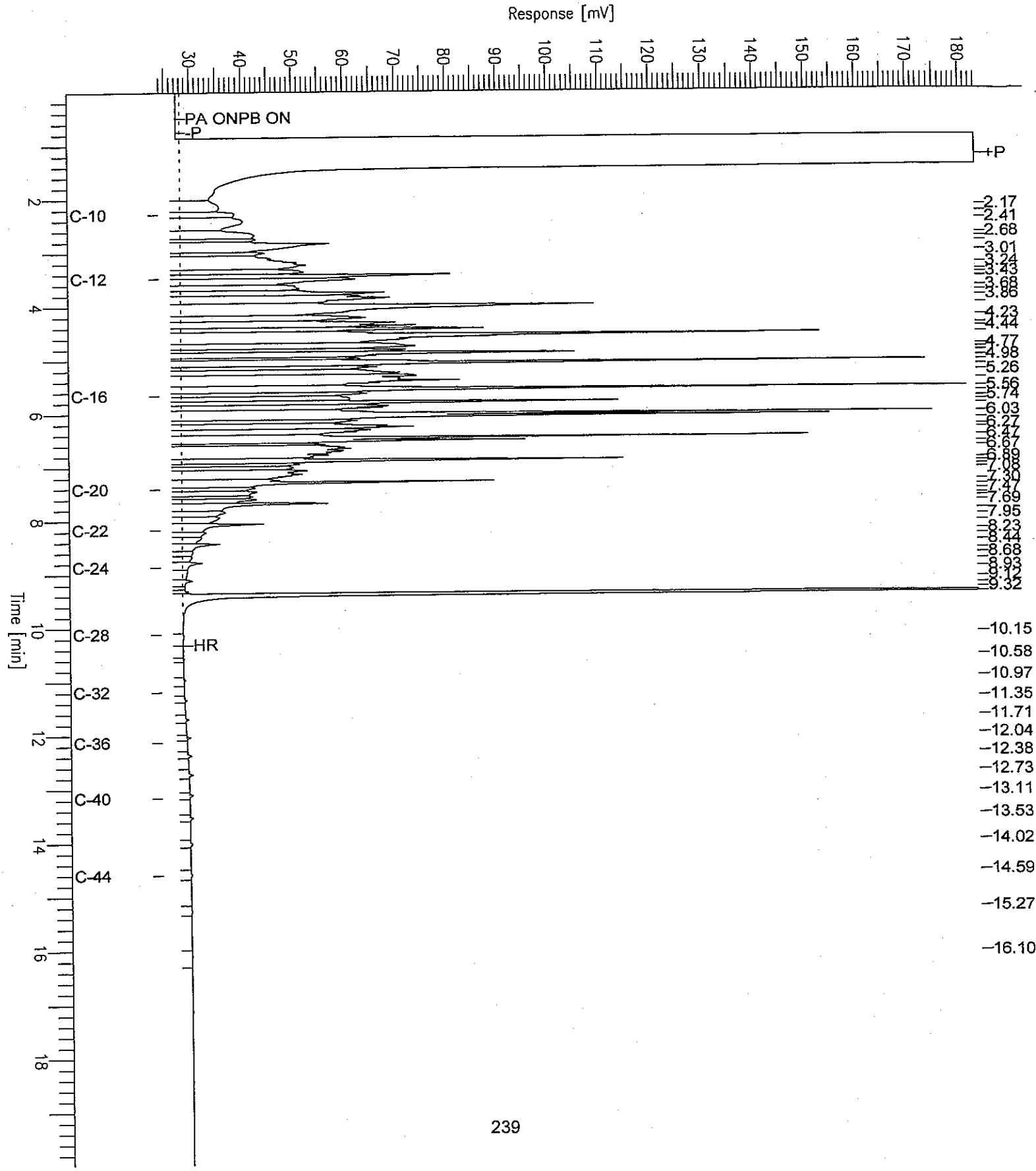
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B003P.TX0

Chromatogram

Sample Name : ccv,04ws2215,dsl
FileName : G:\GC13\CHB\337B003.RAW
Method : BTEH337S.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 500mg/L
Date : 12/2/04 01:30 PM
Time of Injection: 12/2/04 12:31 PM
Low Point : 23.80 mV High Point : 183.13 mV
Plot Scale: 159.3 mV



Software Version: 4.1<2F12>
Date: 12/2/04 12:51 PM
Sample Name : ccv,04ws2215,dsl
Data File ' : G:\GC13\CHB\337B003.RAW Date: 12/2/04 12:31 PM
Sequence File: G:\GC13\337.SEQ Cycle: 3 Channel : B
Instrument : GC13 Rack/Vial: 0/3 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading Final (mg/L)	Inst. Reading Flag (mg/L)	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	1269605	50.34	50.3443		9.408	100.6886
		50.34				

CURTIS & TOMPKINS,LTD. BERKELEY

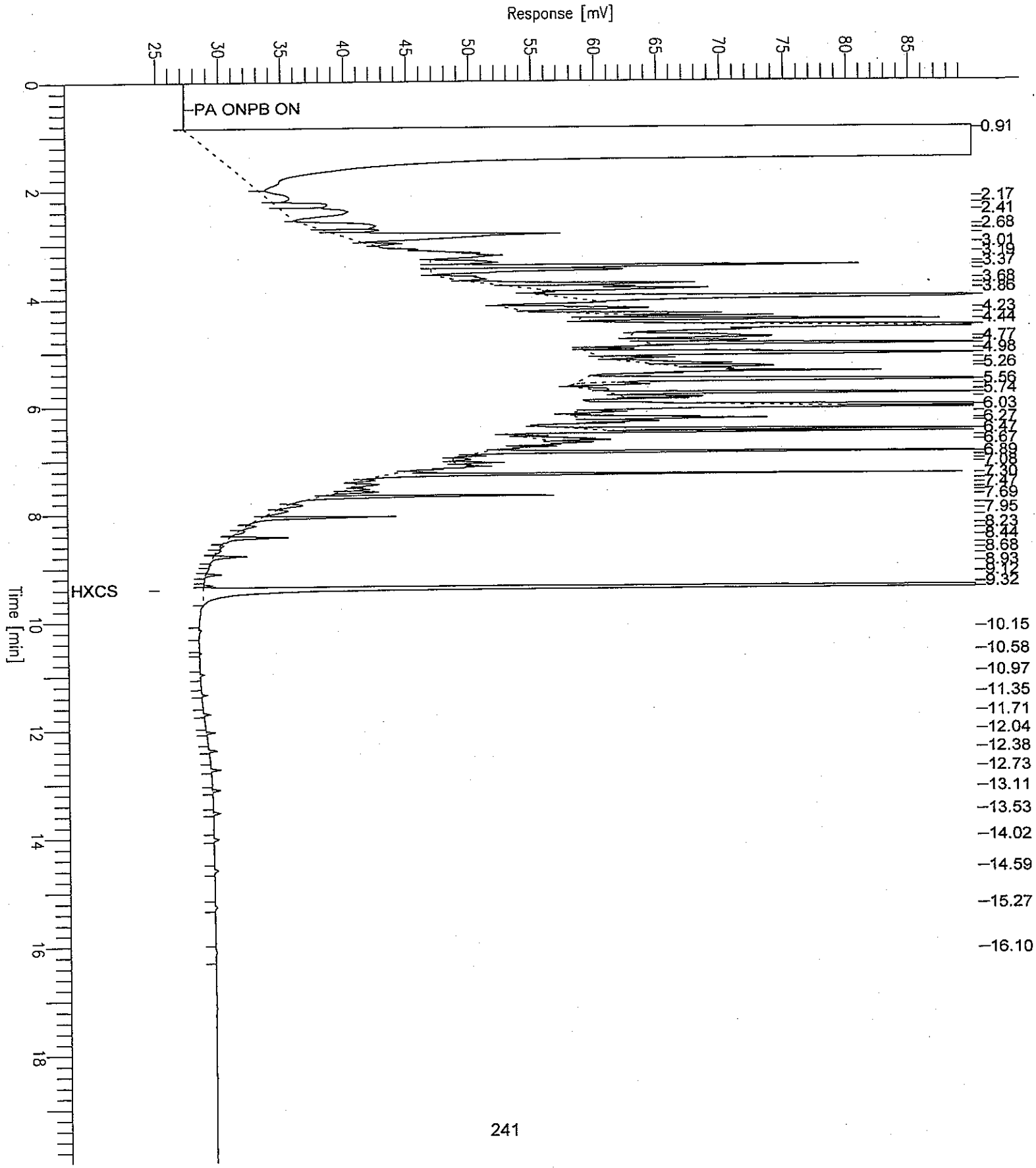
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B003.TX0

Chromatogram

Sample Name : ccv,04ws2215,dsl
FileName : G:\GC13\CHB\337B003.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 12/2/04 12:51 PM
Time of Injection: 12/2/04 12:31 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/3/04 08:49 AM
Sample Name : ccv,04ws2207,dsl
Data File : G:\GC13\CHB\337B016.RAW Date: 12/2/04 07:11 PM
Sequence File: G:\GC13\337.SEQ Cycle: 16 Channel : B
Instrument : GC13 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.284		0	0.00	1.0000	1.00	0.0000
C-12	3.481		0	0.00	1.0000	1.00	0.0000
JETA:10-16	3.973		15207995	847.88	1.0000	1.00	847.8762
JP5:10-16	3.973		15207995	770.54	1.0000	1.00	770.5382
JP8:10-16	3.973		15207995	954.92	1.0000	1.00	954.9159
KER:10-16	3.973		15207995	830.80	1.0000	1.00	830.8045
DSL:10-20	4.847		23570359	1101.65	1.0000	1.00	1101.6547
DSL:10-22	5.227		24545200	1118.98	1.0000	1.00	1118.9834
DSL:10-24	5.576		24762718	1120.16	1.0000	1.00	1120.1621
GAIAFP:10-24	5.576		24762718	1662.76	1.0000	1.00	1662.7612
C-16	5.662		0	0.00	1.0000	1.00	0.0000
DSL:12-22	5.825		21314042	1152.11	1.0000	1.00	1152.1098
DSL:12-24	6.175		21531561	1153.20	1.0000	1.00	1153.2019
DSL:10-28	6.201		26246038	1184.96	1.0000	1.00	1184.9625
DSL:12-28	6.799		23014880	1229.82	1.0000	1.00	1229.8217
DSL:10-36	7.211		26254630	1165.08	1.0000	1.00	1165.0839
C-20	7.410		0	0.00	1.0000	1.00	0.0000
CRUDE:10-40	7.725		26274309	2.63e-05	1.0000	1.00	0.0000
TRIMSOL:12-36	7.809		23023473	2.30e-06	1.0000	1.00	2.3023e-06
C-22	8.170		0	0.00	1.0000	1.00	0.0000
HYFL:12-40	8.324		23043151	1007.13	1.0000	1.00	1007.1257
BUNKC:12-40	8.324		23043151	2562.77	1.0000	1.00	2562.7726
TROIL:12-40	8.324		23043151	841.15	1.0000	1.00	841.1524
C-24	8.868		0	0.00	1.0000	1.00	0.0000
MO:22-32	9.684		1702306	89.40	1.0000	1.00	89.3994
MO:20-36	9.774		2684272	112.51	1.0000	1.00	112.5118
C-28	10.117		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.154		1709430	80.99	1.0000	1.00	80.9892
HYFL:24-36	10.503		1491912	111.63	1.0000	1.00	111.6343
MO:24-36	10.503		1491912	88.10	1.0000	1.00	88.1035
TPHHF:24-36	10.503		1491912	1.49e-06	1.0000	1.00	1.4919e-06
C-32	11.197		0	0.00	1.0000	1.00	0.0000
BUNKC:12-50	11.371		23046308	23046307.60	1.0000	1.00	2.3046e+07
C-36	12.138		0	0.00	1.0000	1.00	0.0000
C-40	13.167		0	0.00	1.0000	1.00	0.0000
				23065494.16			

CURTIS & TOMPKINS,LTD. BERKELEY

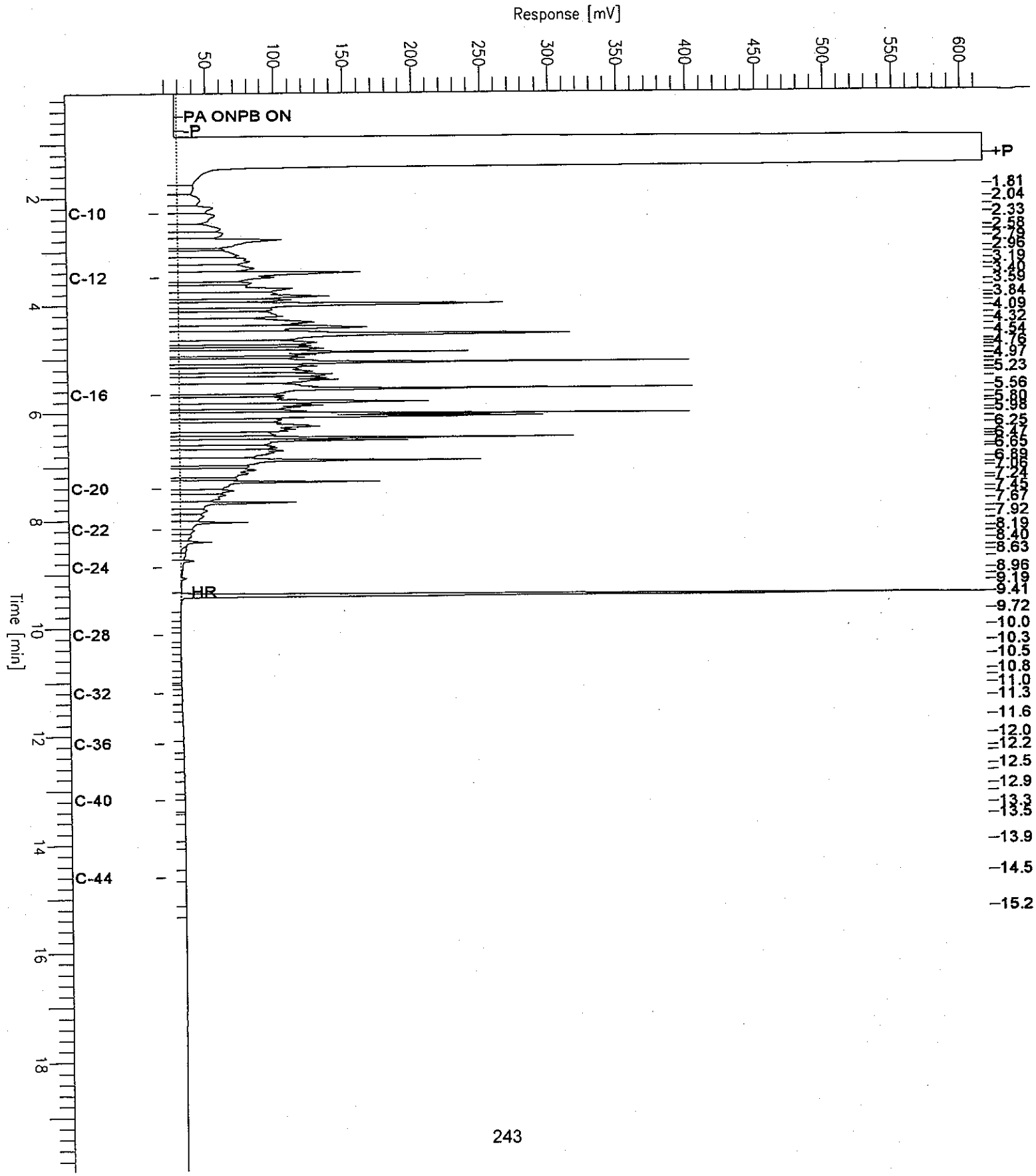
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B016P.TX0

Chromatogram

Sample Name : ccv,04ws2207,dsl
FileName : G:\GC13\CHB\337B016.RAW
Method : BTEH337S.MTH
Start Time : 0.07 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 15 mV

Sample #: 1000mg/L
Date : 12/3/04 08:49 AM
Time of Injection: 12/2/04 07:11 PM
Low Point : 15.18 mV High Point : 616.16 mV
Plot Scale: 601.0 mV



Software Version: 4.1<2F12>
Date: 12/3/04 08:44 AM
Sample Name. : ccv,04ws2207,dsl
Data File ' : G:\GC13\CHB\337B016.RAW Date: 12/2/04 07:11 PM
Sequence File: G:\GC13\337.SEQ Cycle: 16 Channel : B
Instrument : GC13 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	1454196	57.66	57.6640			9.409	115.3280
		57.66					

CURTIS & TOMPKINS,LTD. BERKELEY

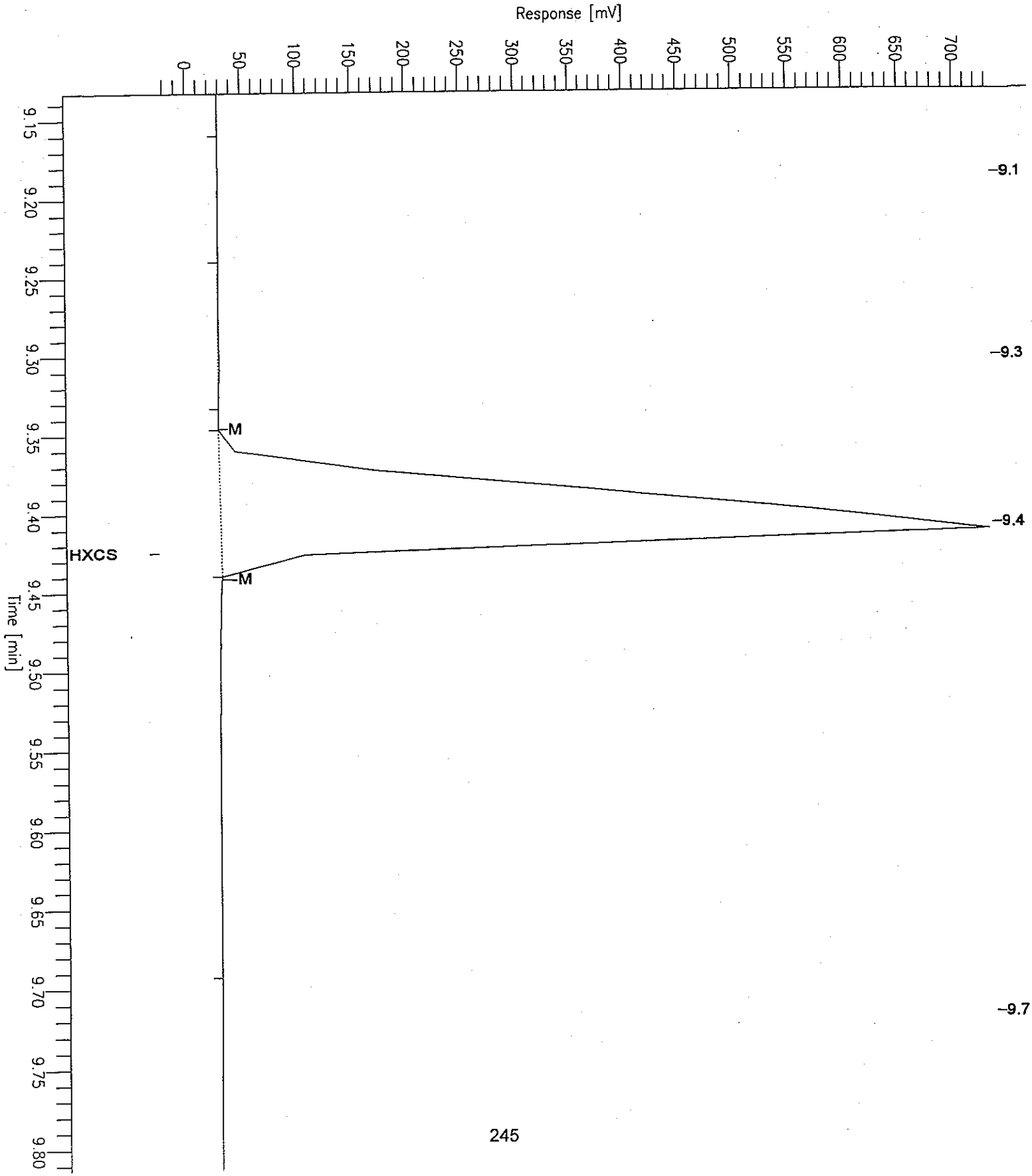
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B016Q.TXO

Chromatogram

Sample Name : ccv,04ws2207,dsl
FileName : G:\GC13\CHB\337B016.RAW
Method :
Start Time : 9.13 min End Time : 9.81 min
Scale Factor: 0.0 Plot Offset: -25 mV

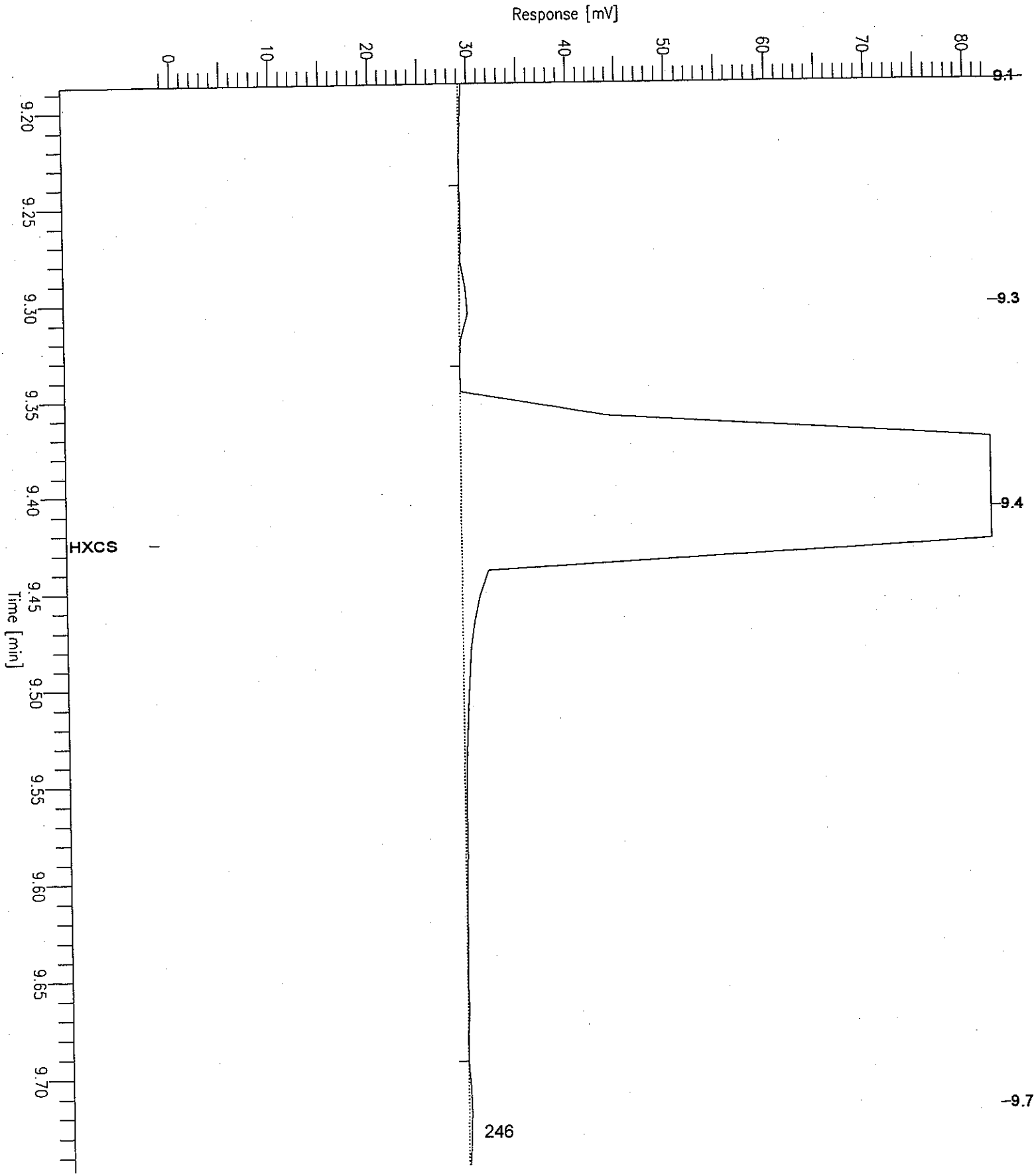
Sample #: 1000mg/L
Date : 12/3/04 08:44 AM
Time of Injection: 12/2/04 07:11 PM
Low Point : -25.31 mV High Point : 734.20 mV
Plot Scale: 759.5 mV



Chromatogram

Sample Name : ccv,04ws2207,dsl
FileName : G:\GC13\CHB\337B016.RAW
Method : '
Start Time : 9.19 min End Time : 9.75 min
Scale Factor: 0.0 Plot Offset: -2 mV

Sample #: 1000mg/L
Date : 12/3/04 08:44 AM
Time of Injection: 12/2/04 07:11 PM
Low Point : -1.64 mV High Point : 82.28 mV
Plot Scale: 83.9 mV



Software Version: 4.1<2F12>
Date: 12/2/04 07:31 PM
Sample Name : ccv,04ws2207,dsl
Data File : G:\GC13\CHB\337B016.RAW Date: 12/2/04 07:11 PM
Sequence File: G:\GC13\337.SEQ Cycle: 16 Channel : B
Instrument : GC13 Rack/Vial: 0/16 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B*

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surrogate Recovery (%)
Hexacosane	1467625	58.20	58.1965			9.409	116.3930
		58.20					

CURTIS & TOMPKINS,LTD. BERKELEY

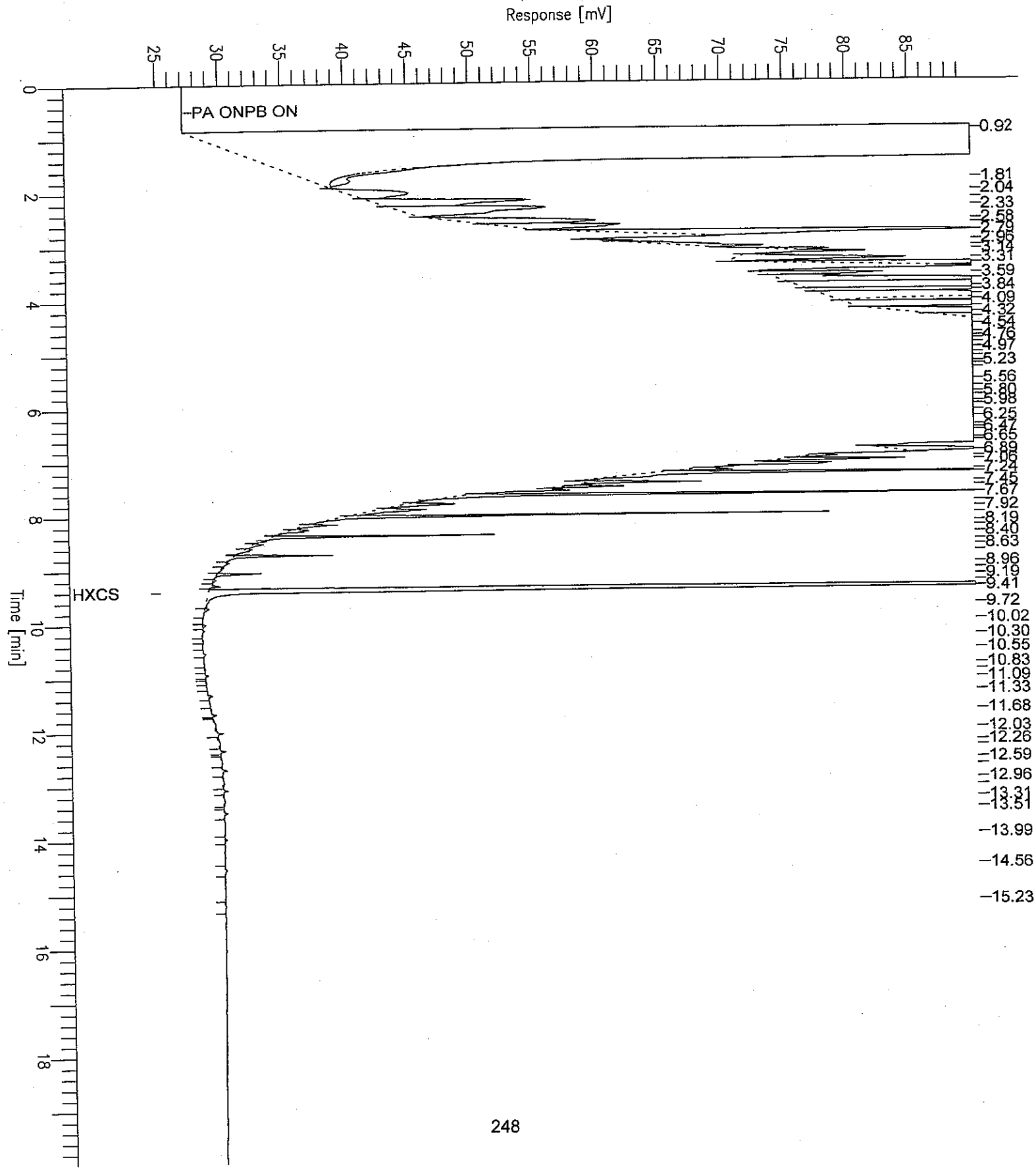
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B016.TX0

Chromatogram

Sample Name : ccv,04ws2207,dsl
FileName : G:\GC13\CHB\337B016.raw
Method : 20MINB
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 1000mg/L
Date : 12/2/04 07:31 PM
Time of Injection: 12/2/04 07:11 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 12:15 PM
Sample Name : ccv,04ws2215,dsl
Data File : G:\GC17\CHA\334A090.RAW Date: 12/1/04 11:47 AM
Sequence File: G:\GC17\334.SEQ Cycle: 90 Channel : A
Instrument : GC17 Rack/Vial: 0/90 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	8729789	392.91	392.9058	1.00	1.00	392.9058
JP8:10-16	8729789	507.43	507.4284	1.00	1.00	507.4284
KER:10-16	8729789	403.54	403.5388	1.00	1.00	403.5388
JETA:10-16	8729789	394.52	394.5230	1.00	1.00	394.5230
DSL:10-20	13051957	552.24	552.2366	1.00	1.00	552.2366
DSL:10-22	13603337	554.38	554.3807	1.00	1.00	554.3807
GAIAFP:10-24	13746261	783.17	783.1725	1.00	1.00	783.1725
DSL:10-24	13746261	553.61	553.6123	1.00	1.00	553.6123
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	12048786	559.28	559.2772	1.00	1.00	559.2772
TROIL:12-22	12048786	1.20e-06	1.2049e-06	1.00	1.00	1.2049e-06
DSL:12-24	12191709	558.34	558.3379	1.00	1.00	558.3379
DSL:10-28	15327836	611.59	611.5878	1.00	1.00	611.5878
DSL:12-32	13775326	612.58	612.5828	1.00	1.00	612.5828
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	13917269	554.68	554.6772	1.00	1.00	554.6772
TROIL:12-40	13917269	428.92	428.9175	1.00	1.00	428.9175
BUNKC:12-40	13917269	1204.40	1204.3996	1.00	1.00	1204.3996
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1726541	87.07	87.0684	1.00	1.00	87.0684
MO:20-36	2288631	93.30	93.2986	1.00	1.00	93.2986
MO:22-36	1737251	78.79	78.7857	1.00	1.00	78.7857
BUNKC:12-50	14245779	1120.79	1120.7924	1.00	1.00	1120.7924
MO:24-36	1594327	87.86	87.8642	1.00	1.00	87.8642
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

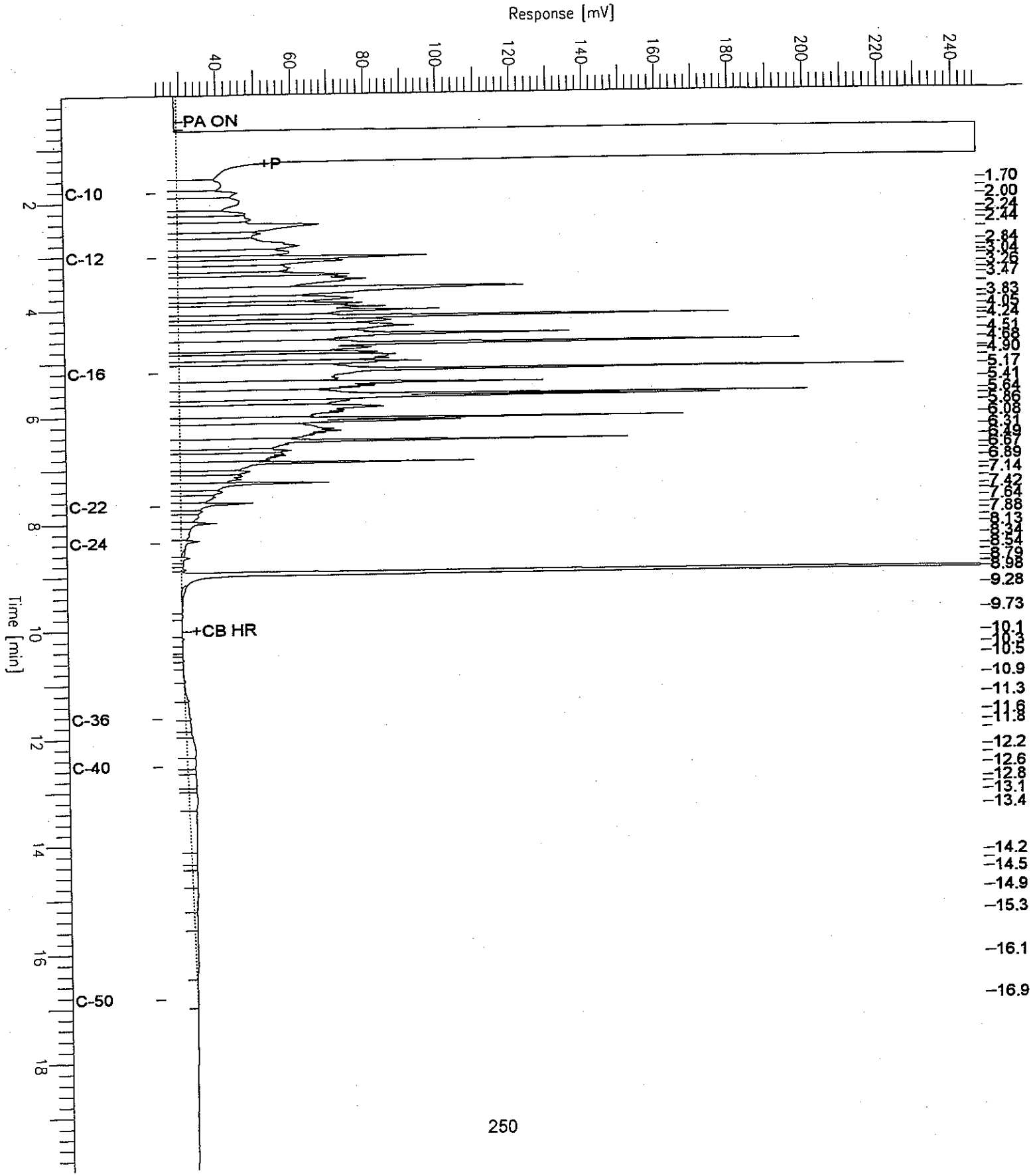
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\334A090P.TX0

Chromatogram

Sample Name : ccv,04ws2215,dsl
FileName : G:\GC17\CHA\334A090.RAW
Method : ATEH336.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 500mg/L
Date : 12/1/04 12:15 PM
Time of Injection: 12/1/04 11:47 AM
Low Point : 23.63 mV High Point : 246.62 mV
Plot Scale: 223.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 12:07 PM
Sample Name : ccv,04ws2215,dsl
Data File : G:\GC17\CHA\334A090.RAW Date: 12/1/04 11:47 AM
Sequence File: G:\GC17\334.SEQ Cycle: 90 Channel : A
Instrument : GC17 Rack/Vial: 0/90 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1547149	56.48	56.4767			8.984	112.9534

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

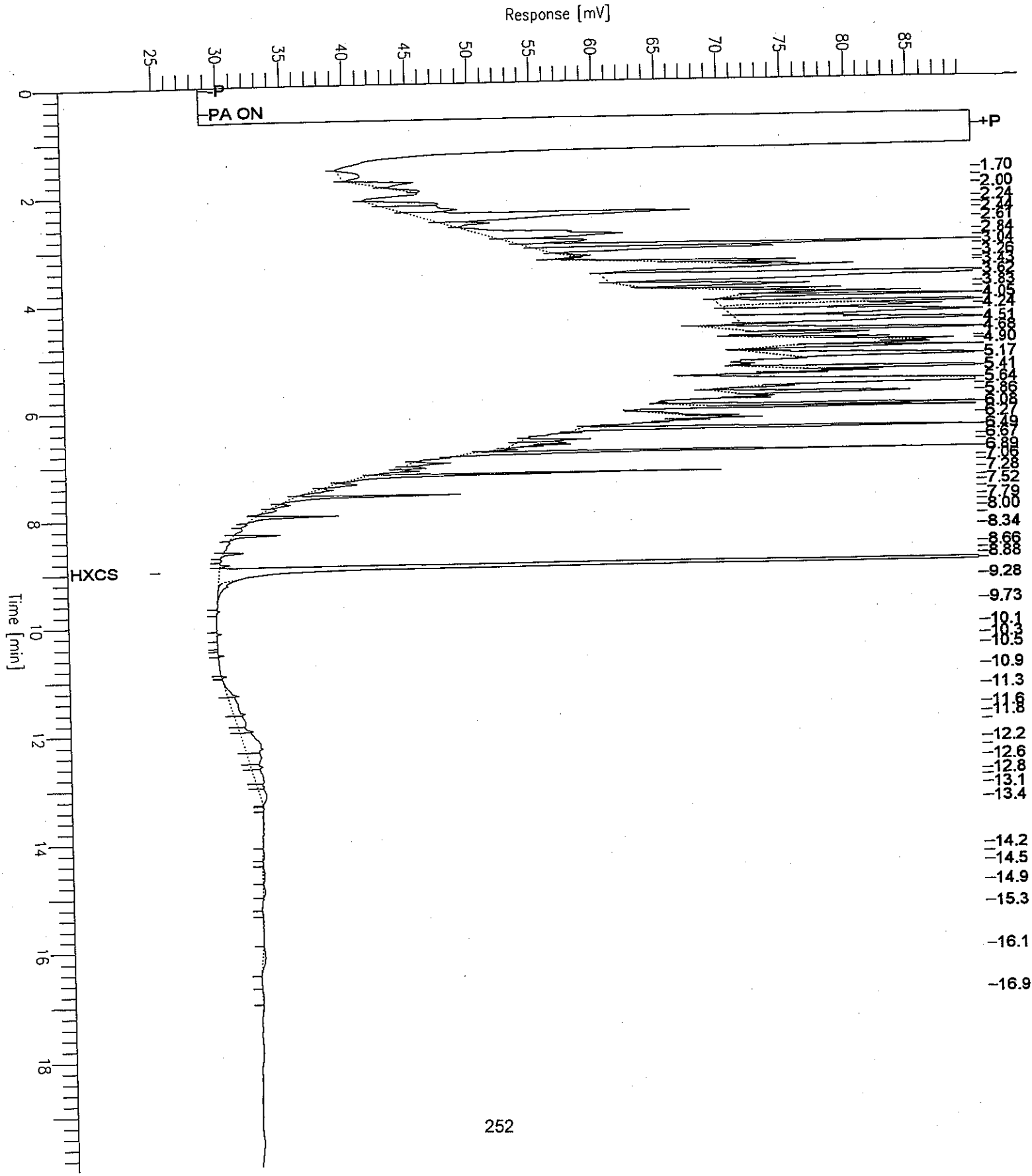
Report stored in ASCII file: G:\GC17\CHA\334A090.TX0

Chromatogram

Sample Name : ccv,04ws2215,dsl
FileName : G:\GC17\CHA\334A090.raw
Method : 20mina
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 12/1/04 12:07 PM
Time of Injection: 12/1/04 11:47 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/2/04 10:07 AM
Sample Name : ccv,04ws2207,dsl
Data File : G:\GC17\CHA\334A105.RAW Date: 12/1/04 08:34 PM
Sequence File: G:\GC17\334.SEQ Cycle: 105 Channel : A
Instrument : GC17 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	16817885	777.41	777.4149	1.00	1.00	777.4149
JETA:10-16	16817885	760.05	760.0462	1.00	1.00	760.0462
JP5:10-16	16817885	700.84	700.8368	1.00	1.00	700.8368
JP8:10-16	16817885	897.59	897.5919	1.00	1.00	897.5919
DSL:10-20	26282730	1112.04	1112.0391	1.00	1.00	1112.0391
DSL:10-22	27422313	1117.55	1117.5493	1.00	1.00	1117.5493
GAIAFP:10-24	27652233	1575.44	1575.4443	1.00	1.00	1575.4443
DSL:10-24	27652233	1113.66	1113.6567	1.00	1.00	1113.6567
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	23575916	1094.34	1094.3404	1.00	1.00	1094.3404
TROIL:12-22	23575916	2.36e-06	2.3576e-06	1.00	1.00	2.3576e-06
DSL:12-24	23805836	1090.22	1090.2246	1.00	1.00	1090.2246
DSL:10-28	29243214	1166.82	1166.8178	1.00	1.00	1166.8178
DSL:12-32	25398455	1129.46	1129.4583	1.00	1.00	1129.4583
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	25412274	1012.81	1012.8142	1.00	1.00	1012.8142
TROIL:12-40	25412274	783.18	783.1829	1.00	1.00	783.1829
BUNKC:12-40	25412274	2199.18	2199.1765	1.00	1.00	2199.1765
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	1822539	91.91	91.9095	1.00	1.00	91.9095
MO:20-36	2963421	120.81	120.8071	1.00	1.00	120.8071
MO:22-36	1823839	82.71	82.7125	1.00	1.00	82.7125
BUNKC:12-50	25424890	2000.31	2000.3135	1.00	1.00	2000.3135
MO:24-36	1593918	87.84	87.8416	1.00	1.00	87.8416
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

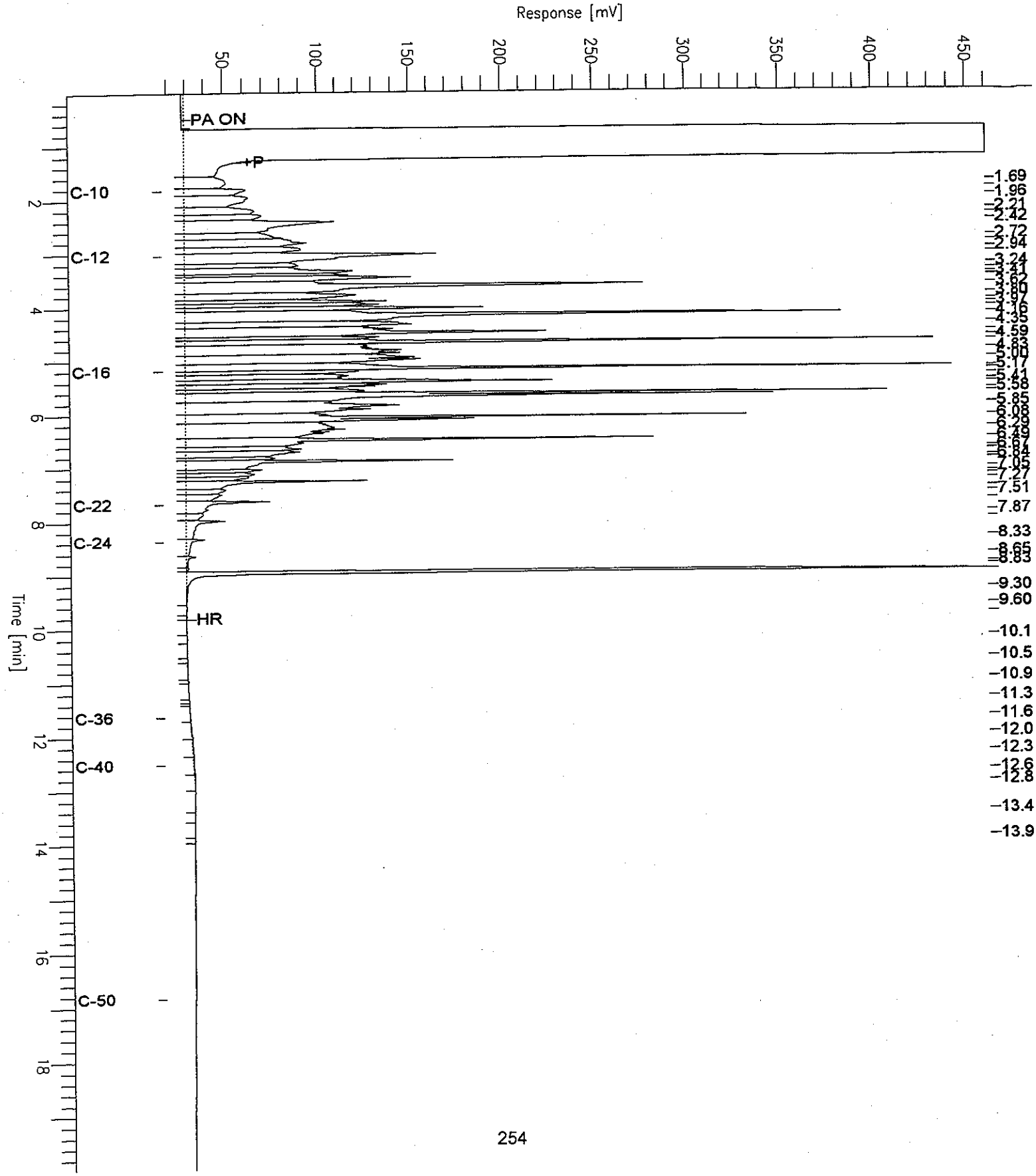
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\334A105P.TX0

Chromatogram

Sample Name : ccv,04ws2207,dsl
FileName : G:\GC17\CHA\334A105.RAW
Method : ATEH336.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #: 1000mg/L
Date : 12/2/04 10:07 AM
Time of Injection: 12/1/04 08:34 PM
Low Point : 17.47 mV High Point : 460.74 mV
Plot Scale: 443.3 mV



Software Version: 4.1<2F12>
Date: 12/1/04 08:54 PM
Sample Name : ccv,04ws2207,dsl
Data File : G:\GC17\CHA\334A105.RAW Date: 12/1/04 08:34 PM
Sequence File: G:\GC17\334.SEQ Cycle: 105 Channel : A
Instrument : GC17 Rack/Vial: 0/5 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1553152	56.70	56.6958			8.982	113.3917

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

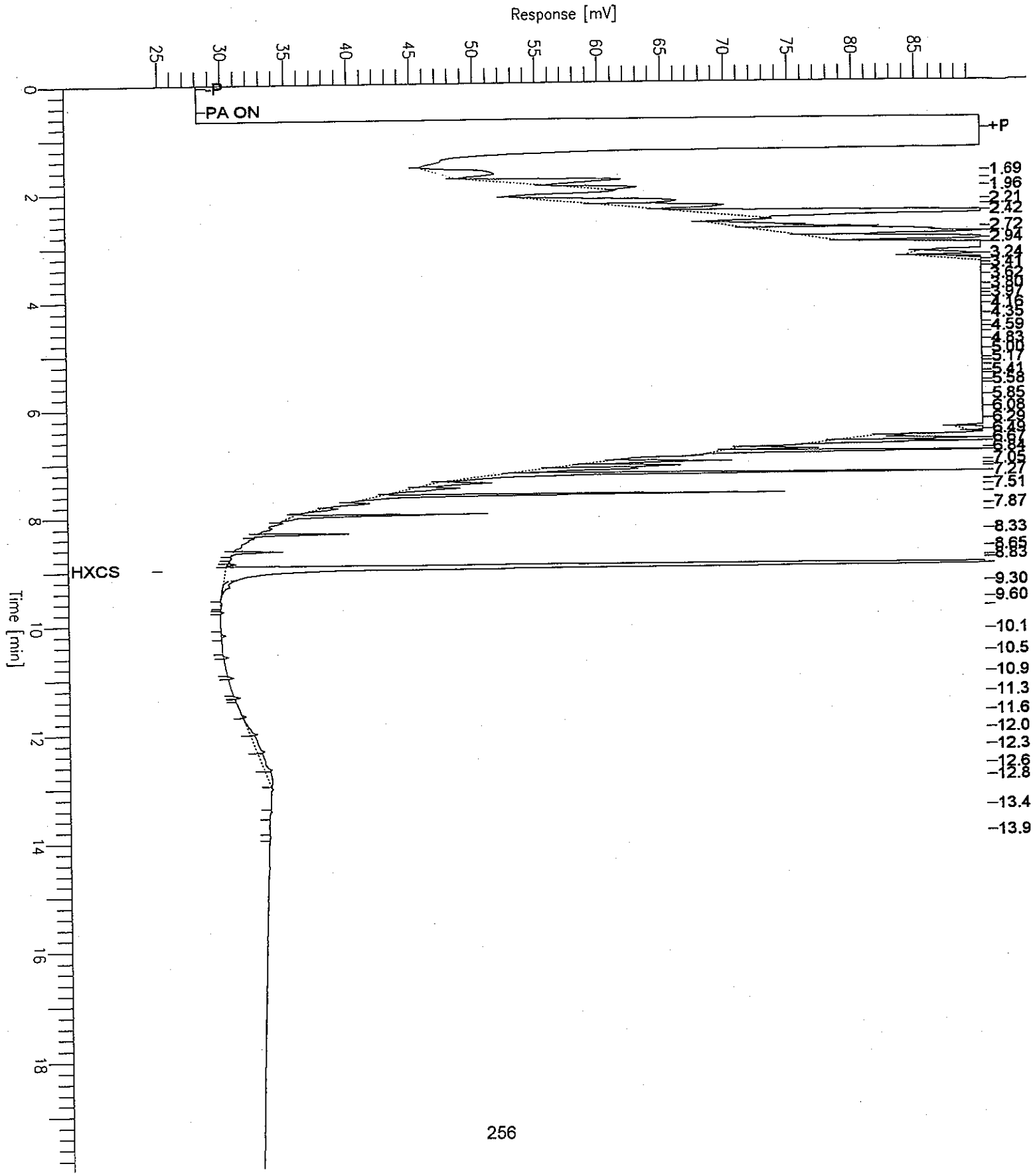
Report stored in ASCII file: G:\GC17\CHA\334A105.TXO

Chromatogram

Sample Name : ccv,04ws2207,dsl
FileName : G:\GC17\CHA\334A105.raw
Method : 20min.a
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 1000mg/L
Date : 12/1/04 08:54 PM
Time of Injection: 12/1/04 08:34 PM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



CONTINUING CALIBRATION SUMMARY FOR 176248 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114484417030	02-DEC-2004 01:01	114442646002	02-NOV-2004	18175	18991	500.00	522.45	mg/L	4	15	
GC11A	A	114484417045	02-DEC-2004 08:18	114442646002	02-NOV-2004	18175	18644	500.00	512.91	mg/L	3	15	
GC17A	A	174481498091	01-DEC-2004 13:55	174472877002	23-NOV-2004	18145	20114	500.00	554.26	mg/L	11	15	
GC17A	A	174481498106	01-DEC-2004 21:03	174472877002	23-NOV-2004	18145	19993	500.00	550.92	mg/L	10	15	

Software Version: 4.1<2F12>
Date: 12/2/04 08:49 AM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC11\CHA\336A030.RAW Date: 12/2/04 01:01 AM
Sequence File: G:\GC11\336.SEQ Cycle: 30 Channel : A
Instrument : GC11 Rack/Vial: 0/30 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	1942782	78.03	78.0323	1.00	1.00	78.0323
GAIAFP:10-24	4437944	104.84	104.8390	1.00	1.00	104.8390
DSL:10-24	4437944	176.39	176.3874	1.00	1.00	176.3874
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1942782	93.05	93.0483	1.00	1.00	93.0483
DSL:10-28	11651860	458.50	458.5024	1.00	1.00	458.5024
DSL:12-24	4437944	209.91	209.9079	1.00	1.00	209.9079
RRFPLH:16-24	4437944	642.28	642.2792	1.00	1.00	642.2792
CRUDE:10-40	15677951	15.68	15.6780	1.00	1.00	15.6780
TRIMSOL:12-36	15438987	627.46	627.4613	1.00	1.00	627.4613
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	15677951	2029.17	2029.1678	1.00	1.00	2029.1678
TRANSOIL:12-40	15677951	544.81	544.8123	1.00	1.00	544.8123
HYFL:12-40	15677951	671.23	671.2306	1.00	1.00	671.2306
MO:22-32	12309566	605.97	605.9669	1.00	1.00	605.9669
MO:20-36	15115614	598.71	598.7083	1.00	1.00	598.7083
MO:22-36	13496205	587.11	587.1134	1.00	1.00	587.1134
HYFL:24-36	11001043	769.77	769.7735	1.00	1.00	769.7735
TPHHF:24-36	11001043	1.10e-06	1.1001e-06	1.00	1.00	1.1001e-06
MO:24-36	11001043	605.28	605.2818	1.00	1.00	605.2818
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

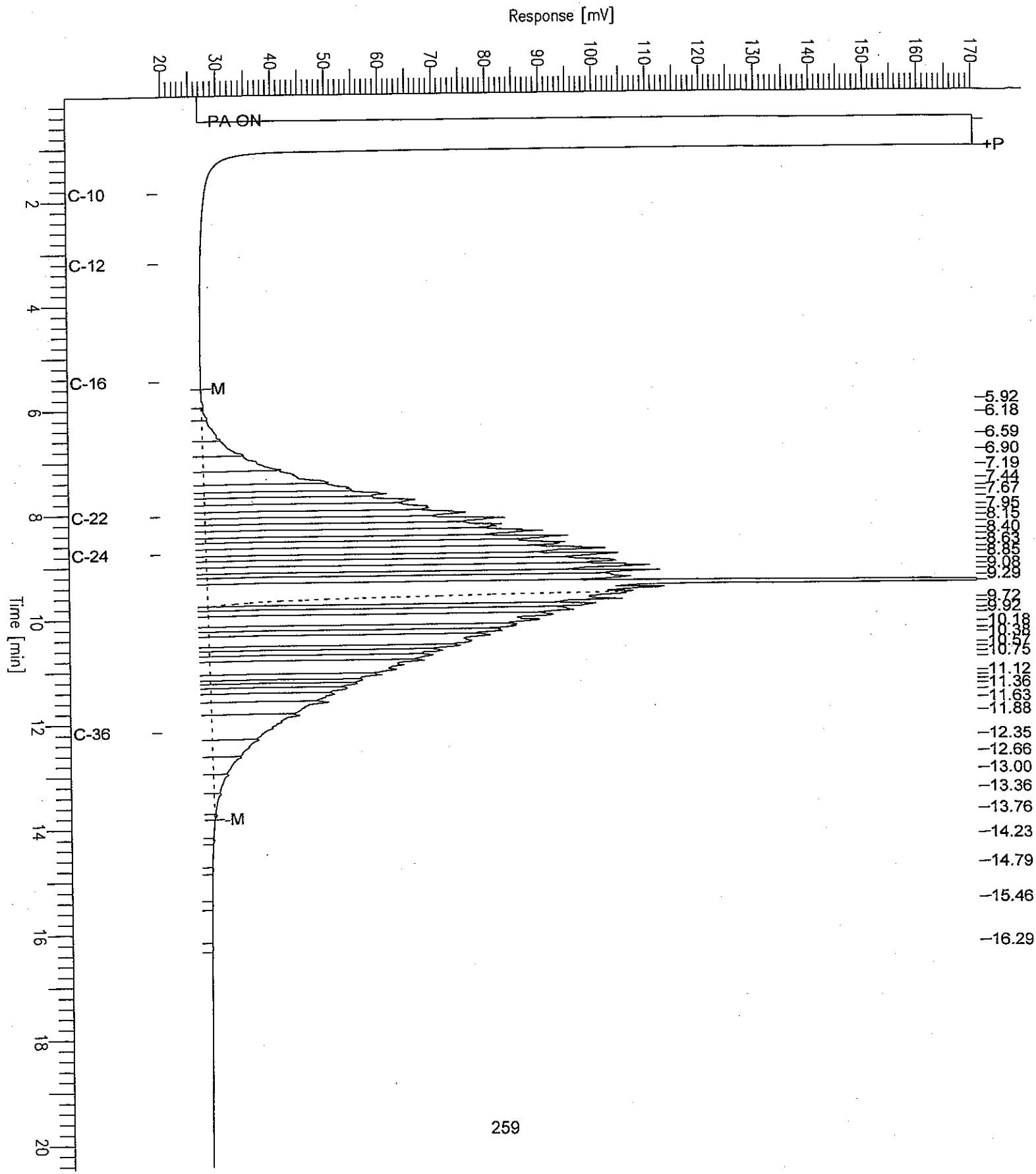
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A030P.TX0

Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC11\CHA\336A030.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 500mg/L
Date : 12/2/04 08:49 AM
Time of Injection: 12/2/04 01:01 AM
Low Point : 19.37 mV High Point : 170.26 mV
Plot Scale: 150.9 mV



Software Version: 4.1<2F12>
Date: 12/2/04 01:22 AM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC11\CHA\336A030.RAW Date: 12/2/04 01:01 AM
Sequence File: G:\GC11\336.SEQ Cycle: 30 Channel : A
Instrument : GC11 Rack/Vial: 0/30 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1505492	54.90	54.9010			9.411	109.8019

CURTIS & TOMPKINS,LTD. BERKELEY

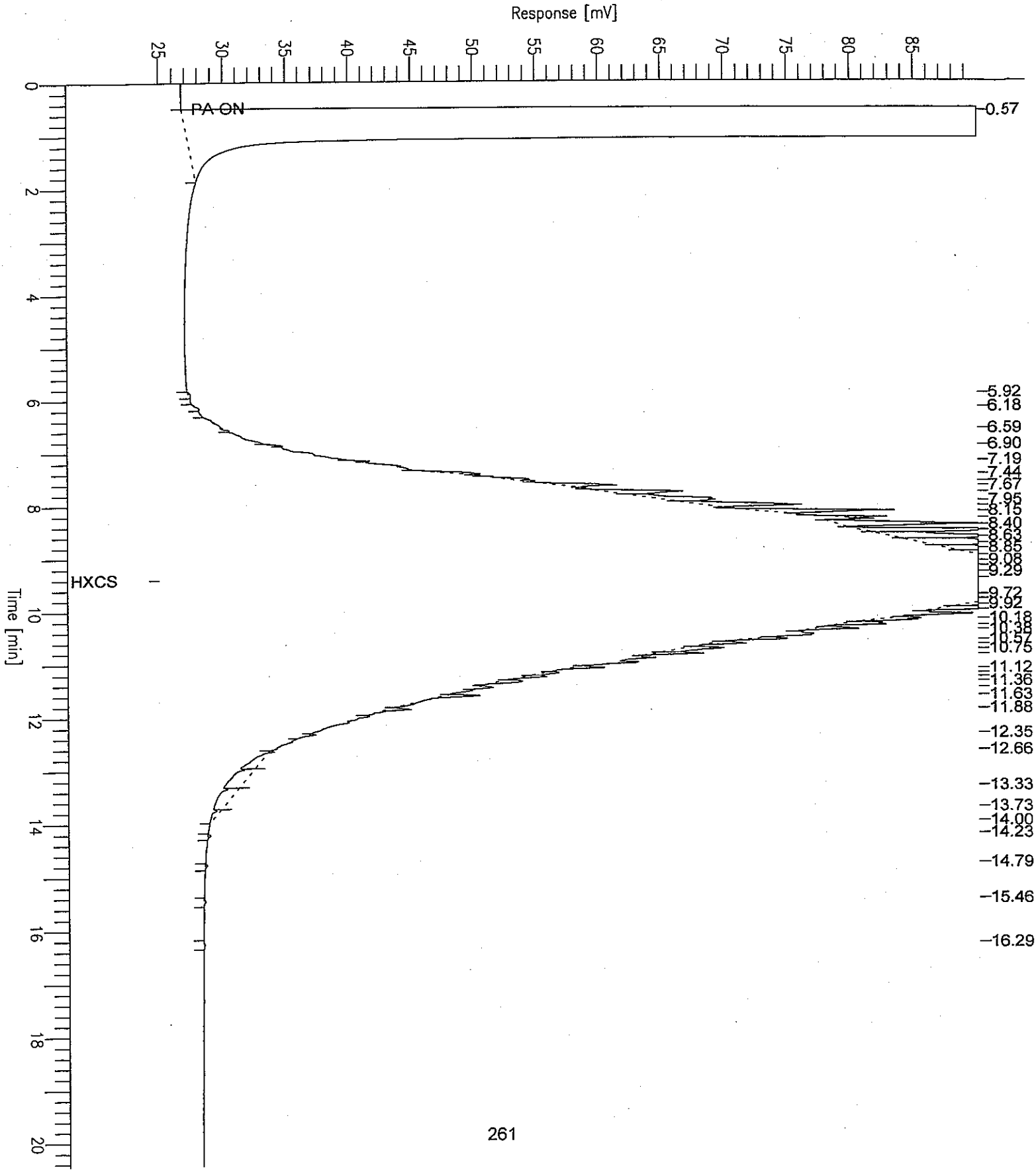
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A030.TX0

Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC11\CHA\336A030.raw
Method : CHASHORT
Start Time : 0.00 min End Time : 20.46 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 12/2/04 01:22 AM
Time of Injection: 12/2/04 01:01 AM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/2/04 08:57 AM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC11\CHA\336A045.RAW Date: 12/2/04 08:18 AM
Sequence File: G:\GC11\336.SEQ Cycle: 45 Channel : A
Instrument : GC11 Rack/Vial: 0/45 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-22	1942707	78.03	78.0293	1.00	1.00	78.0293
GAIAFP:10-24	4439074	104.87	104.8657	1.00	1.00	104.8657
DSL:10-24	4439074	176.43	176.4324	1.00	1.00	176.4324
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1942707	93.04	93.0448	1.00	1.00	93.0448
DSL:10-28	11337177	446.12	446.1196	1.00	1.00	446.1196
DSL:12-24	4439074	209.96	209.9614	1.00	1.00	209.9614
RRFPLH:16-24	4439074	642.44	642.4428	1.00	1.00	642.4428
CRUDE:10-40	15478002	15.48	15.4780	1.00	1.00	15.4780
TRIMSOL:12-36	15271824	620.67	620.6676	1.00	1.00	620.6676
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	15478002	2003.29	2003.2888	1.00	1.00	2003.2888
TRANSOIL:12-40	15478002	537.86	537.8640	1.00	1.00	537.8640
HYFL:12-40	15478002	662.67	662.6701	1.00	1.00	662.6701
MO:22-32	12215896	601.36	601.3558	1.00	1.00	601.3558
MO:20-36	15122232	598.97	598.9704	1.00	1.00	598.9704
MO:22-36	13329117	579.84	579.8447	1.00	1.00	579.8447
HYFL:24-36	10832750	758.00	757.9976	1.00	1.00	757.9976
TPHHF:24-36	10832750	1.08e-06	1.0833e-06	1.00	1.00	1.0833e-06
MO:24-36	10832750	596.02	596.0222	1.00	1.00	596.0222
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

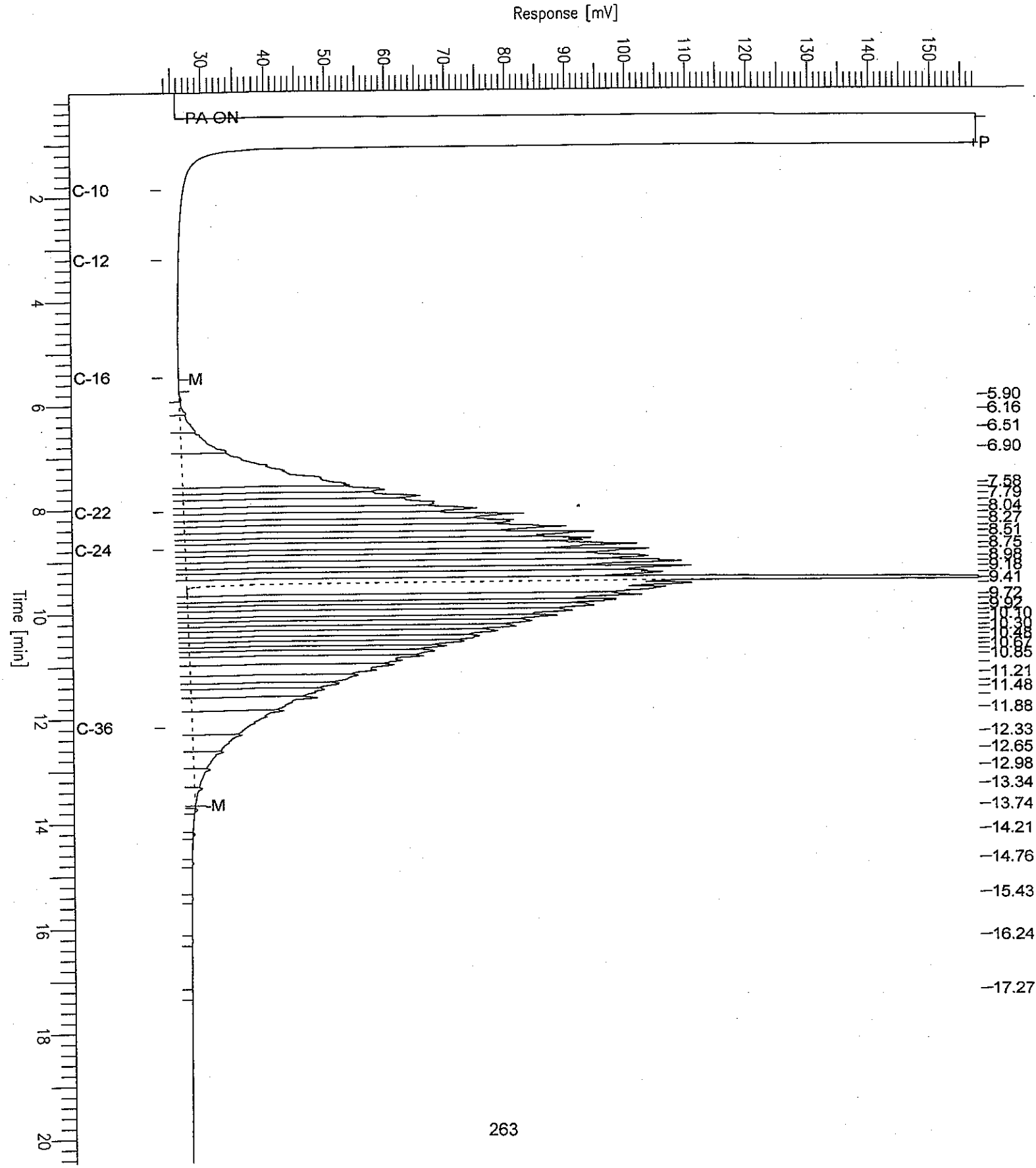
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A045P.TXO

Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC11\CHA\336A045.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 500mg/L
Date : 12/2/04 08:57 AM
Time of Injection: 12/2/04 08:18 AM
Low Point : 23.53 mV High Point : 157.53 mV
Plot Scale: 134.0 mV



Software Version: 4.1<2F12>
Date: 12/2/04 08:39 AM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC11\CHA\336A045.RAW Date: 12/2/04 08:18 AM
Sequence File: G:\GC11\336.SEQ Cycle: 45 Channel : A
Instrument : GC11 Rack/Vial: 0/45 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1510576	55.09	55.0864			9.412	110.1727

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

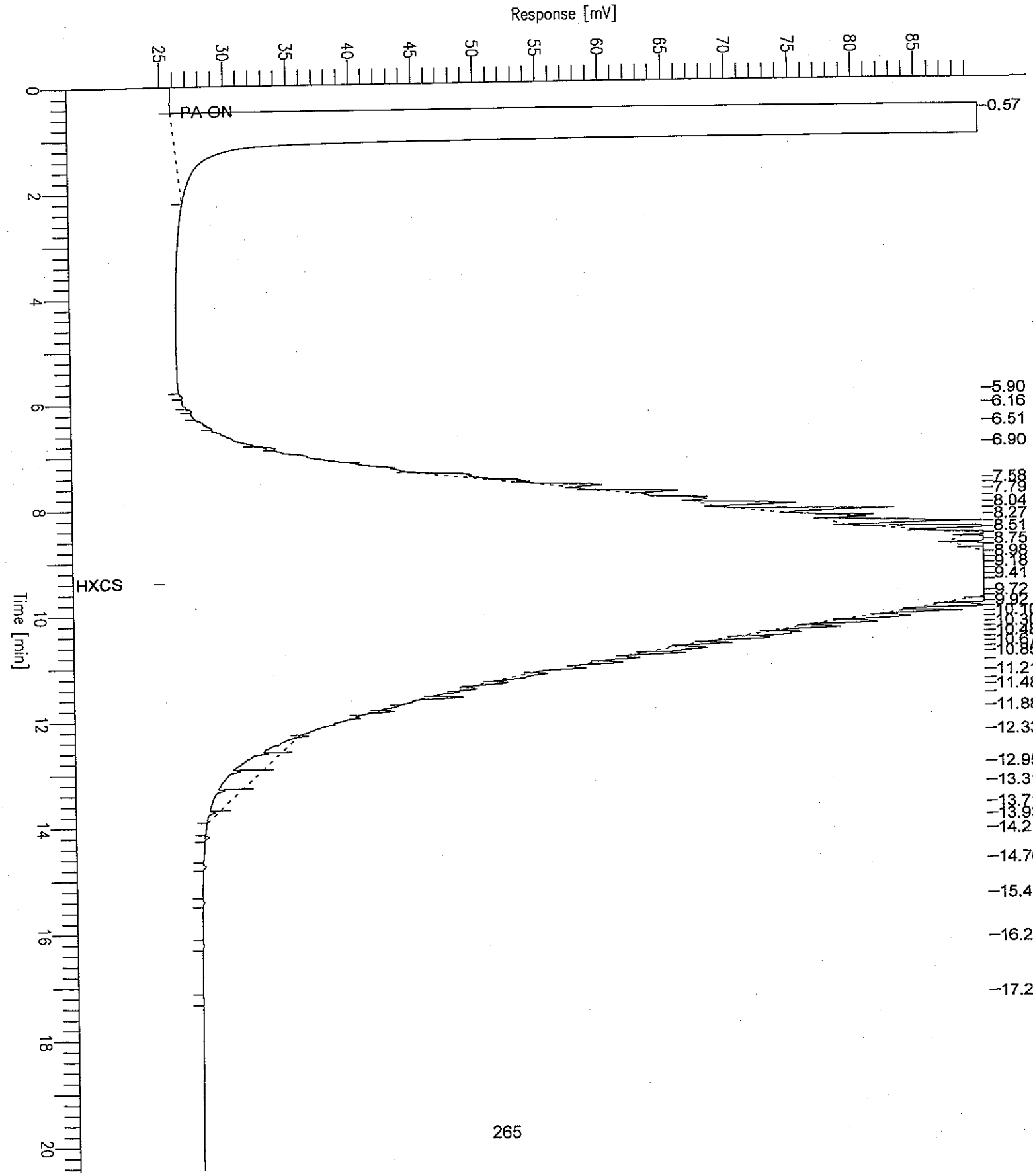
Report stored in ASCII file: G:\GC11\CHA\336A045.TX0

Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC11\CHA\336A045.raw
Method : CHASHORT
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 20.46 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 12/2/04 08:39 AM
Time of Injection: 12/2/04 08:18 AM
Low Point : 25.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/1/04 02:50 PM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC17\CHA\334A091.RAW Date: 12/1/04 01:55 PM
Sequence File: G:\GC17\334.SEQ Cycle: 91 Channel : A
Instrument : GC17 Rack/Vial: 0/91 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	10138	0.46	0.4563	1.00	1.00	0.4563
JP8:10-16	10138	0.59	0.5893	1.00	1.00	0.5893
KER:10-16	10138	0.47	0.4686	1.00	1.00	0.4686
JETA:10-16	10138	0.46	0.4582	1.00	1.00	0.4582
DSL:10-20	133165	5.63	5.6343	1.00	1.00	5.6343
DSL:10-22	1528947	62.31	62.3096	1.00	1.00	62.3096
GAIAFP:10-24	3807398	216.92	216.9207	1.00	1.00	216.9207
DSL:10-24	3807398	153.34	153.3378	1.00	1.00	153.3378
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1528947	70.97	70.9702	1.00	1.00	70.9702
TROIL:12-22	1528947	1.53e-07	1.5289e-07	1.00	1.00	1.5289e-07
DSL:12-24	3807398	174.37	174.3656	1.00	1.00	174.3656
DSL:10-28	11179539	446.07	446.0688	1.00	1.00	446.0688
DSL:12-32	14238573	633.18	633.1832	1.00	1.00	633.1832
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	15854501	631.89	631.8862	1.00	1.00	631.8862
TROIL:12-40	15854501	488.62	488.6212	1.00	1.00	488.6212
BUNKC:12-40	15854501	1372.05	1372.0475	1.00	1.00	1372.0475
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	12709626	640.94	640.9387	1.00	1.00	640.9387
MO:20-36	15291567	623.38	623.3775	1.00	1.00	623.3775
MO:22-36	13895785	630.18	630.1848	1.00	1.00	630.1848
BUNKC:12-50	15855334	1247.42	1247.4248	1.00	1.00	1247.4248
MO:24-36	11617334	640.24	640.2372	1.00	1.00	640.2372
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\334A091P.TXO

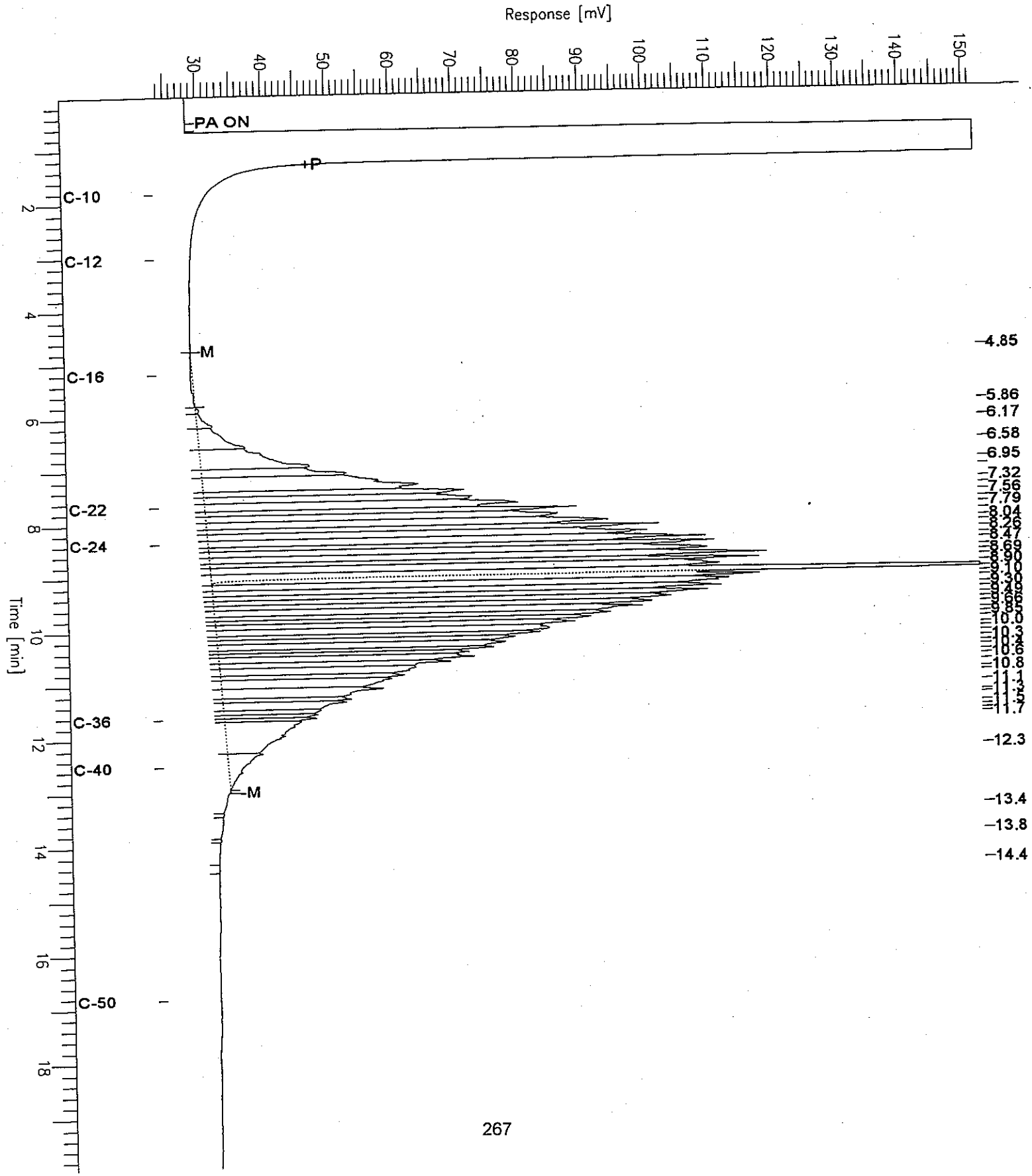
Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC17\CHA\334A091.RAW
Method : ATEH336.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.95 min
Plot Offset: 23 mV

Sample #: 500mg/L
Date : 12/1/04 02:50 PM
Time of Injection: 12/1/04 01:55 PM
Low Point : 23.38 mV
Plot Scale: 128.3 mV

High Point : 151.70 mV



Software Version: 4.1<2F12>
Date: 12/1/04 02:47 PM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC17\CHA\334A091.RAW Date: 12/1/04 01:55 PM
Sequence File: G:\GC17\334.SEQ Cycle: 91 Channel : A
Instrument : GC17 Rack/Vial: 0/91 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1560130	56.95	56.9506			9.010	113.9011

CURTIS & TOMPKINS,LTD. BERKELEY

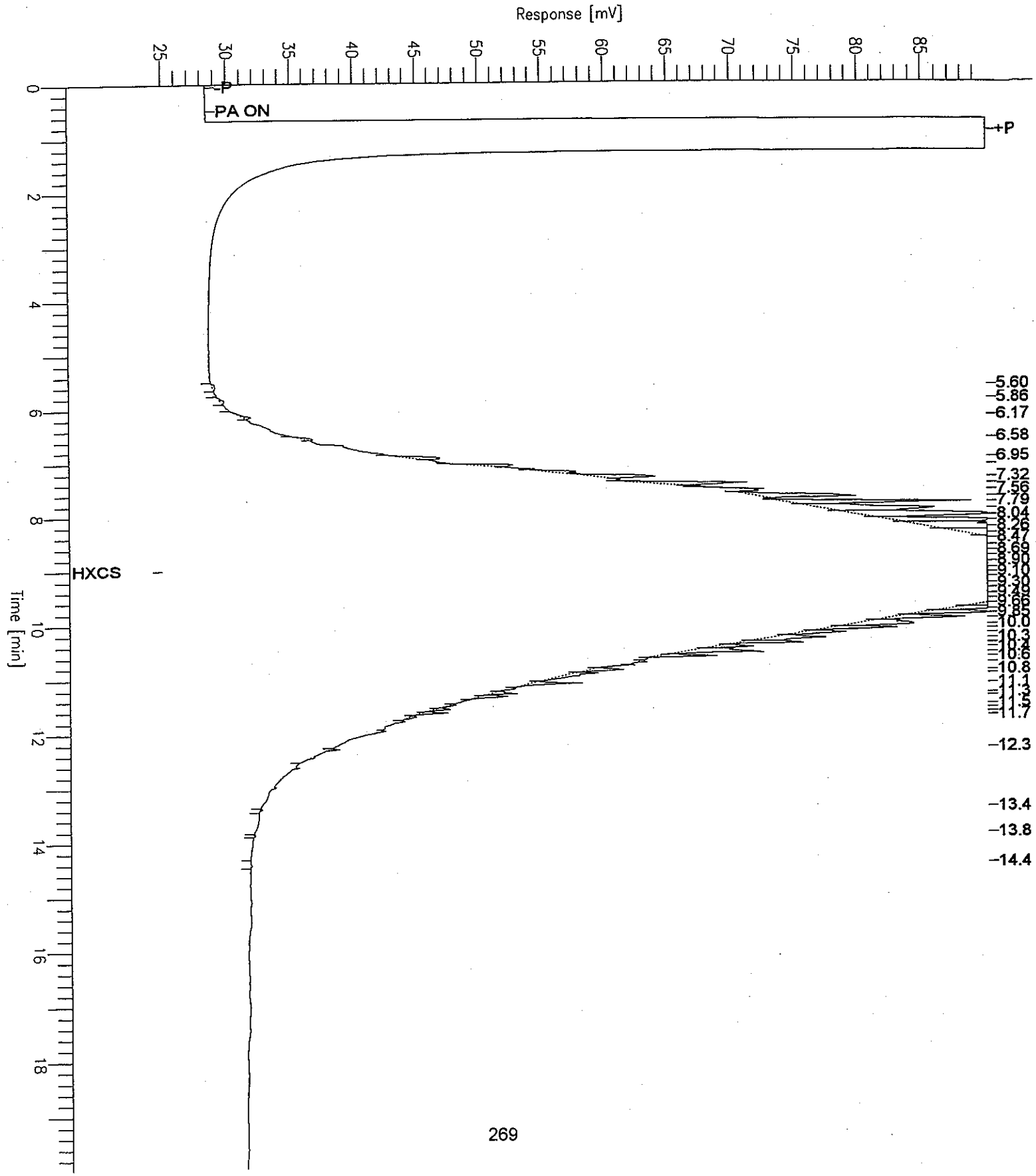
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\334A091.TXO

Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC17\CHA\334a091.raw
Method : 20mina
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 500mg/L
Date : 12/1/04 02:47 PM
Time of Injection: 12/1/04 01:55 PM
Low Point : 25.00 mV High Point : 90.00 mV
Plot Scale: 65.0 mV



Software Version: 4.1<2F12>
Date: 12/2/04 10:08 AM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC17\CHA\334A106.RAW Date: 12/1/04 09:03 PM
Sequence File: G:\GC17\334.SEQ Cycle: 106 Channel : A
Instrument : GC17 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JETA:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP5:10-16	0	0.00	0.0000	1.00	1.00	0.0000
JP8:10-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:10-20	162298	6.87	6.8669	1.00	1.00	6.8669
DSL:10-22	1930078	78.66	78.6570	1.00	1.00	78.6570
GAIAFP:10-24	4493385	256.00	256.0039	1.00	1.00	256.0039
DSL:10-24	4493385	180.97	180.9651	1.00	1.00	180.9651
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	1930078	89.59	89.5898	1.00	1.00	89.5898
TROIL:12-22	1930078	1.93e-07	1.9301e-07	1.00	1.00	1.9301e-07
DSL:12-24	4493385	205.78	205.7814	1.00	1.00	205.7814
DSL:10-28	11461415	457.32	457.3158	1.00	1.00	457.3158
DSL:12-32	14595067	649.04	649.0364	1.00	1.00	649.0364
C-22	0	0.00	0.0000	1.00	1.00	0.0000
HYFL:12-40	16171165	644.51	644.5069	1.00	1.00	644.5069
TROIL:12-40	16171165	498.38	498.3805	1.00	1.00	498.3805
BUNKC:12-40	16171165	1399.45	1399.4516	1.00	1.00	1399.4516
C-24	0	0.00	0.0000	1.00	1.00	0.0000
MO:22-32	12664989	638.69	638.6877	1.00	1.00	638.6877
MO:20-36	15959138	650.59	650.5918	1.00	1.00	650.5918
MO:22-36	14191358	643.59	643.5893	1.00	1.00	643.5893
BUNKC:12-50	16171165	1272.27	1272.2729	1.00	1.00	1272.2729
MO:24-36	11628051	640.83	640.8279	1.00	1.00	640.8279
C-36	0	0.00	0.0000	1.00	1.00	0.0000
C-40	0	0.00	0.0000	1.00	1.00	0.0000
C-50	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

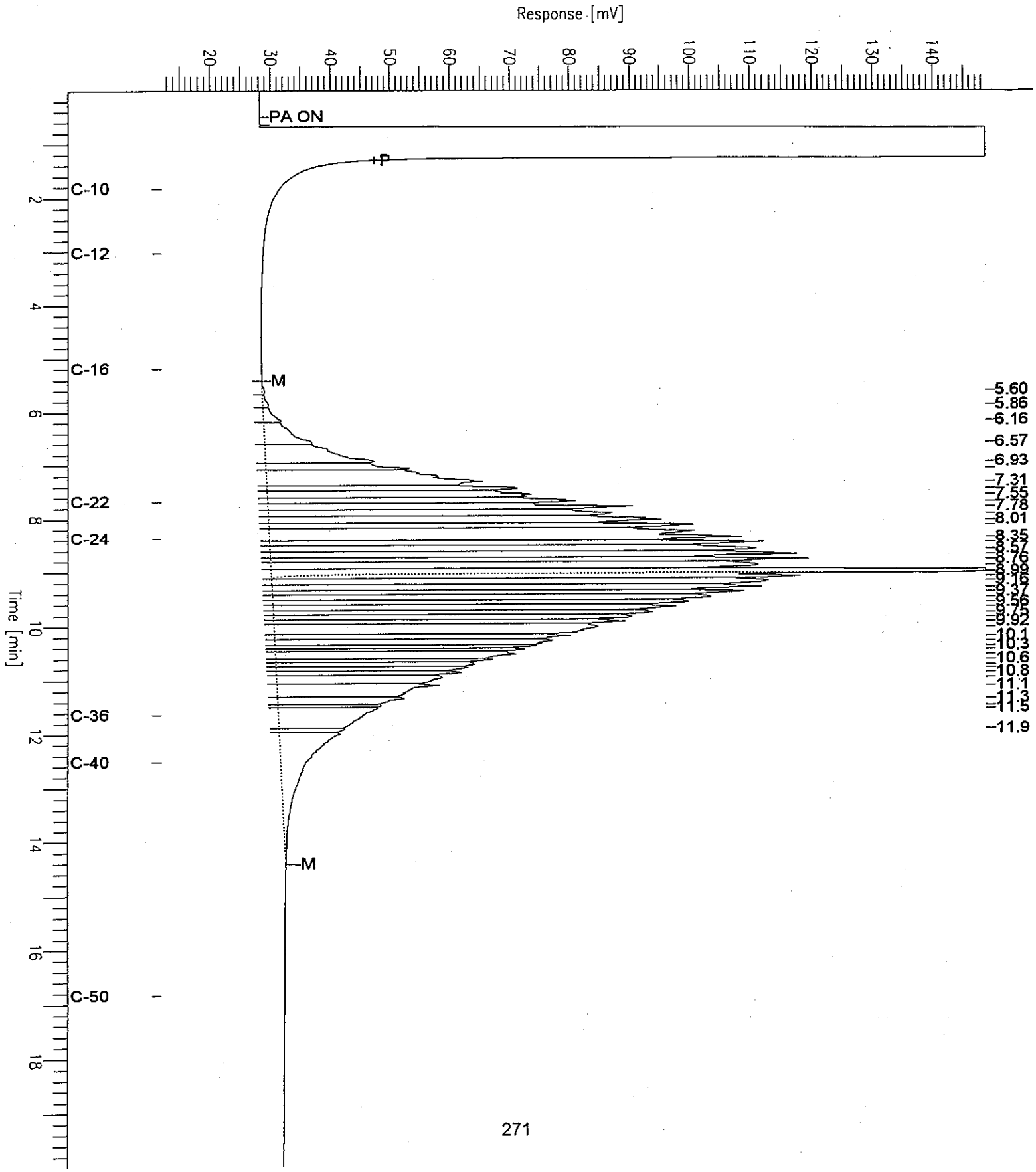
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\334A106P.TX0

Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC17\CHA\334A106.RAW
Method : ATEH336.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 12 mV

Sample #: 500mg/L Page 1 of 1
Date : 12/2/04 10:08 AM
Time of Injection: 12/1/04 09:03 PM
Low Point : 12.04 mV High Point : 148.68 mV
Plot Scale: 136.6 mV



Software Version: 4.1<2F12>
Date: 12/1/04 09:23 PM
Sample Name : ccv,04ws2195,mo
Data File : G:\GC17\CHA\334A106.RAW Date: 12/1/04 09:03 PM
Sequence File: G:\GC17\334.SEQ Cycle: 106 Channel : A
Instrument : GC17 Rack/Vial: 0/6 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC17 * Channel A *

TEH SURROGATE INSTRUMENT RESULTS

Component Name	Area [µV·s]	Inst. Reading (mg/L)	Final Inst. Reading (mg/L)	Flag	BL	Time [min]	Surr Recovery (%)
Hexacosane	1631476	59.55	59.5550			8.992	119.1099

CURTIS & TOMPKINS,LTD. BERKELEY

Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC17\CHA\334A106.TXO

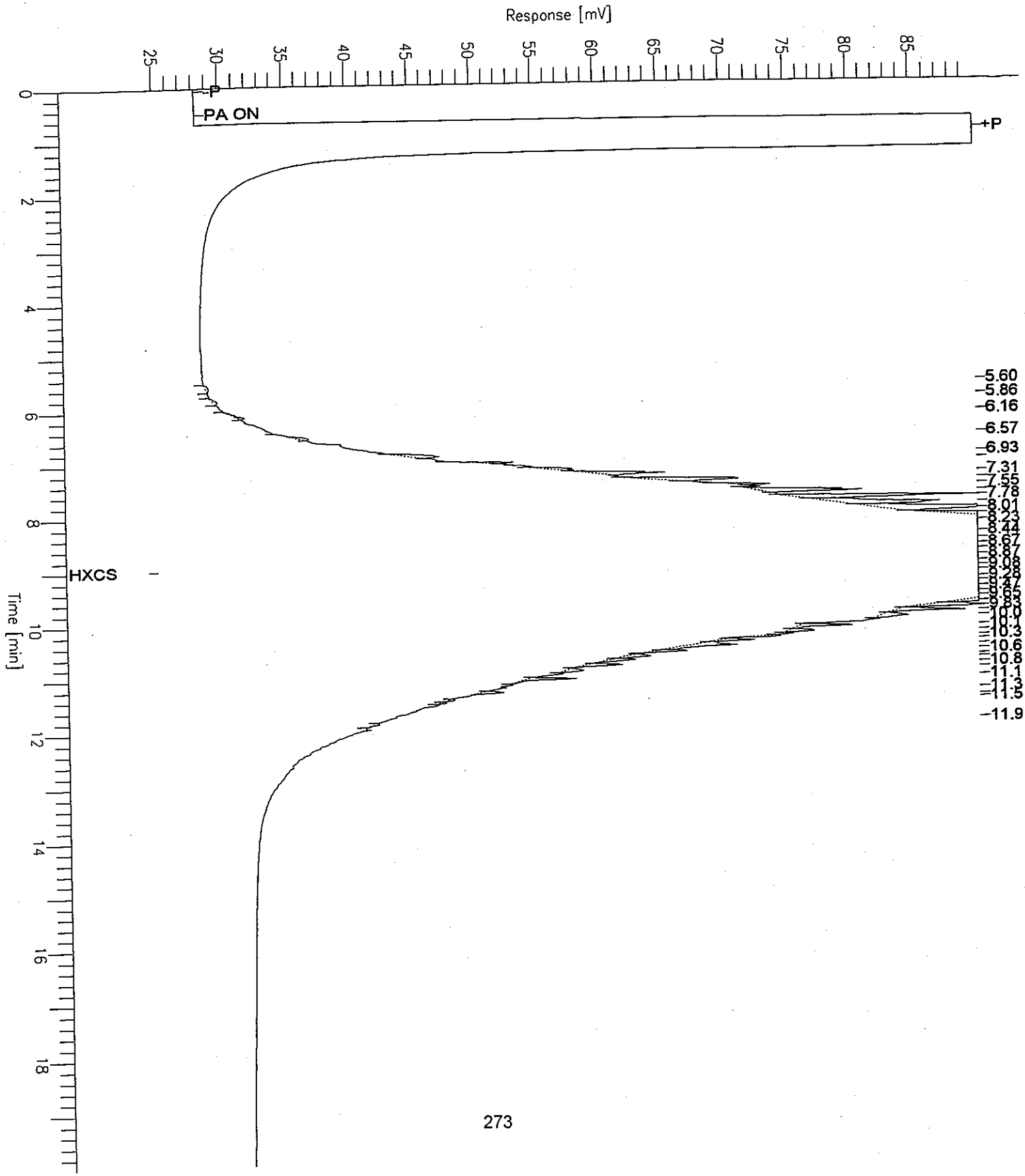
Chromatogram

Sample Name : ccv,04ws2195,mo
FileName : G:\GC17\CHA\334A106.raw
Method : 20mina
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 25 mV

Sample #: 500mg/L
Date : 12/1/04 09:23 PM
Time of Injection: 12/1/04 09:03 PM
Low Point : 25.00 mV
Plot Scale: 65.0 mV

High Point : 90.00 mV



Software Version: 4.1<2F12>
Date: 12/1/04 11:12 AM
Sample Name : ib
Data File : G:\GC11\CHA\336A001.RAW Date: 12/1/04 09:37 AM
Sequence File: G:\GC11\336.SEQ Cycle: 1 Channel : A
Instrument : GC11 Rack/Vial: 0/1 Operator: gc
Sample Amount : 1.0000 Dilution Factor : 1.00

GC11* Channel A * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Area [µV·s]	Raw Amount (mg/L)	Adjusted Amount (mg/L)	DIL. FACT	MULTIPLIER	Final Report Amount Soil(mg/L); Water(ug/L)
C-10	0	0.00	0.0000	1.00	1.00	0.0000
C-12	0	0.00	0.0000	1.00	1.00	0.0000
KER:10-16	32595	1.46	1.4569	1.00	1.00	1.4569
JETA:10-16	32595	1.68	1.6811	1.00	1.00	1.6811
JP8:10-16	32595	1.72	1.7157	1.00	1.00	1.7157
JP5:10-16	32595	1.32	1.3239	1.00	1.00	1.3239
DSL:10-22	145033	5.83	5.8253	1.00	1.00	5.8253
GAIAFP:10-24	180880	4.27	4.2730	1.00	1.00	4.2730
DSL:10-24	180880	7.19	7.1891	1.00	1.00	7.1891
C-16	0	0.00	0.0000	1.00	1.00	0.0000
DSL:12-22	145033	6.95	6.9463	1.00	1.00	6.9463
DSL:10-28	215772	8.49	8.4906	1.00	1.00	8.4906
DSL:12-24	180880	8.56	8.5553	1.00	1.00	8.5553
RRFPLH:16-24	148285	21.46	21.4605	1.00	1.00	21.4605
CRUDE:10-40	470177	0.47	0.4702	1.00	1.00	0.4702
TRIMSOL:12-36	389168	15.82	15.8163	1.00	1.00	15.8163
C-22	0	0.00	0.0000	1.00	1.00	0.0000
BUNKC:12-40	470177	60.85	60.8542	1.00	1.00	60.8542
TRANSOIL:12-40	470177	16.34	16.3388	1.00	1.00	16.3388
HYFL:12-40	470177	20.13	20.1300	1.00	1.00	20.1300
MO:22-32	141139	6.95	6.9479	1.00	1.00	6.9479
MO:20-36	290033	11.49	11.4878	1.00	1.00	11.4878
MO:22-36	244135	10.62	10.6204	1.00	1.00	10.6204
HYFL:24-36	208289	14.57	14.5745	1.00	1.00	14.5745
TPHHF:24-36	208289	2.08e-08	2.0829e-08	1.00	1.00	2.0829e-08
MO:24-36	208289	11.46	11.4601	1.00	1.00	11.4601
C-36	0	0.00	0.0000	1.00	1.00	0.0000

CURTIS & TOMPKINS,LTD. BERKELEY

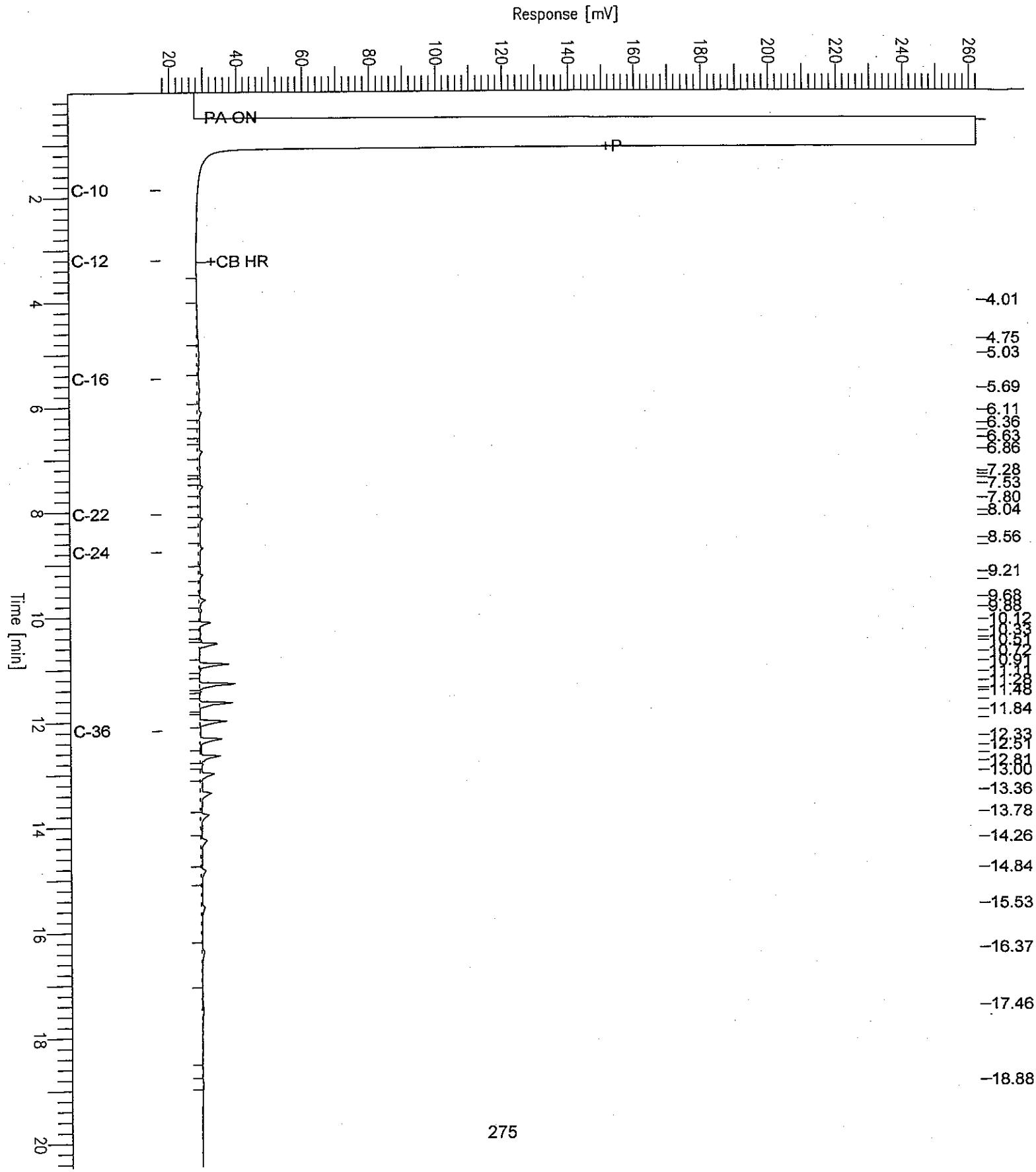
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC11\CHA\336A001P.TX0

Chromatogram

Sample Name : ib
FileName : G:\GC11\CHA\336A001.RAW
Method : ATEH335S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #:
Date : 12/1/04 11:12 AM
Time of Injection: 12/1/04 09:37 AM
Low Point : 17.35 mV High Point : 262.07 mV
Plot Scale: 244.7 mV



Software Version: 4.1<2F12>
Date: 12/2/04 01:29 PM
Sample Name : ib
Data File : G:\GC13\CHB\337B002.RAW Date: 12/2/04 12:02 PM
Sequence File: G:\GC13\337.SEQ Cycle: 2 Channel : B
Instrument : GC13 Rack/Vial: 0/2 Operator:
Sample Amount : 1.0000 Dilution Factor : 1.00

GC13* Channel B * I

TEH - Total Extractable Hydrocarbons Results

Component Name	Time [min]	BL	Area [µV·s]	Raw Amount (mg/L)	Dilution Factor	Extraction Factor (multiplier)	Concentration (ug/L - mg/kg)
C-10	2.284		0	0.00	1.0000	1.00	0.0000
C-12	3.481		0	0.00	1.0000	1.00	0.0000
JETA:10-16	3.973		0	0.00	1.0000	1.00	0.0000
JP5:10-16	3.973		0	0.00	1.0000	1.00	0.0000
JP8:10-16	3.973		0	0.00	1.0000	1.00	0.0000
KER:10-16	3.973		0	0.00	1.0000	1.00	0.0000
DSL:10-20	4.847		0	0.00	1.0000	1.00	0.0000
DSL:10-22	5.227		0	0.00	1.0000	1.00	0.0000
DSL:10-24	5.576		0	0.00	1.0000	1.00	0.0000
GAIAFP:10-24	5.576		0	0.00	1.0000	1.00	0.0000
C-16	5.662		0	0.00	1.0000	1.00	0.0000
DSL:12-22	5.825		0	0.00	1.0000	1.00	0.0000
DSL:12-24	6.175		0	0.00	1.0000	1.00	0.0000
DSL:10-28	6.201		3616	0.16	1.0000	1.00	0.1632
DSL:12-28	6.799		3616	0.19	1.0000	1.00	0.1932
DSL:10-36	7.211		36699	1.63	1.0000	1.00	1.6285
C-20	7.410		0	0.00	1.0000	1.00	0.0000
CRUDE:10-40	7.725		82294	8.23e-08	1.0000	1.00	8.2294e-08
TRIMSOL:12-36	7.809		36699	3.67e-09	1.0000	1.00	3.6699e-09
C-22	8.170		0	0.00	1.0000	1.00	0.0000
HYFL:12-40	8.324		82294	3.60	1.0000	1.00	3.5967
BUNKC:12-40	8.324		82294	9.15	1.0000	1.00	9.1524
TROIL:12-40	8.324		82294	3.00	1.0000	1.00	3.0040
C-24	8.868		0	0.00	1.0000	1.00	0.0000
MO:22-32	9.684		17385	0.91	1.0000	1.00	0.9130
MO:20-36	9.774		36699	1.54	1.0000	1.00	1.5382
C-28	10.117		0	0.00	1.0000	1.00	0.0000
MO:22-36	10.154		36699	1.74	1.0000	1.00	1.7387
HYFL:24-36	10.503		36699	2.75	1.0000	1.00	2.7460
MO:24-36	10.503		36699	2.17	1.0000	1.00	2.1672
TPHHF:24-36	10.503		36699	3.67e-08	1.0000	1.00	3.6699e-08
C-32	11.197		0	0.00	1.0000	1.00	0.0000
BUNKC:12-50	11.371		162508	162507.65	1.0000	1.00	1.6251e+05
C-36	12.138		0	0.00	1.0000	1.00	0.0000
C-40	13.167		0	0.00	1.0000	1.00	0.0000
				162534.49			

CURTIS & TOMPKINS,LTD. BERKELEY

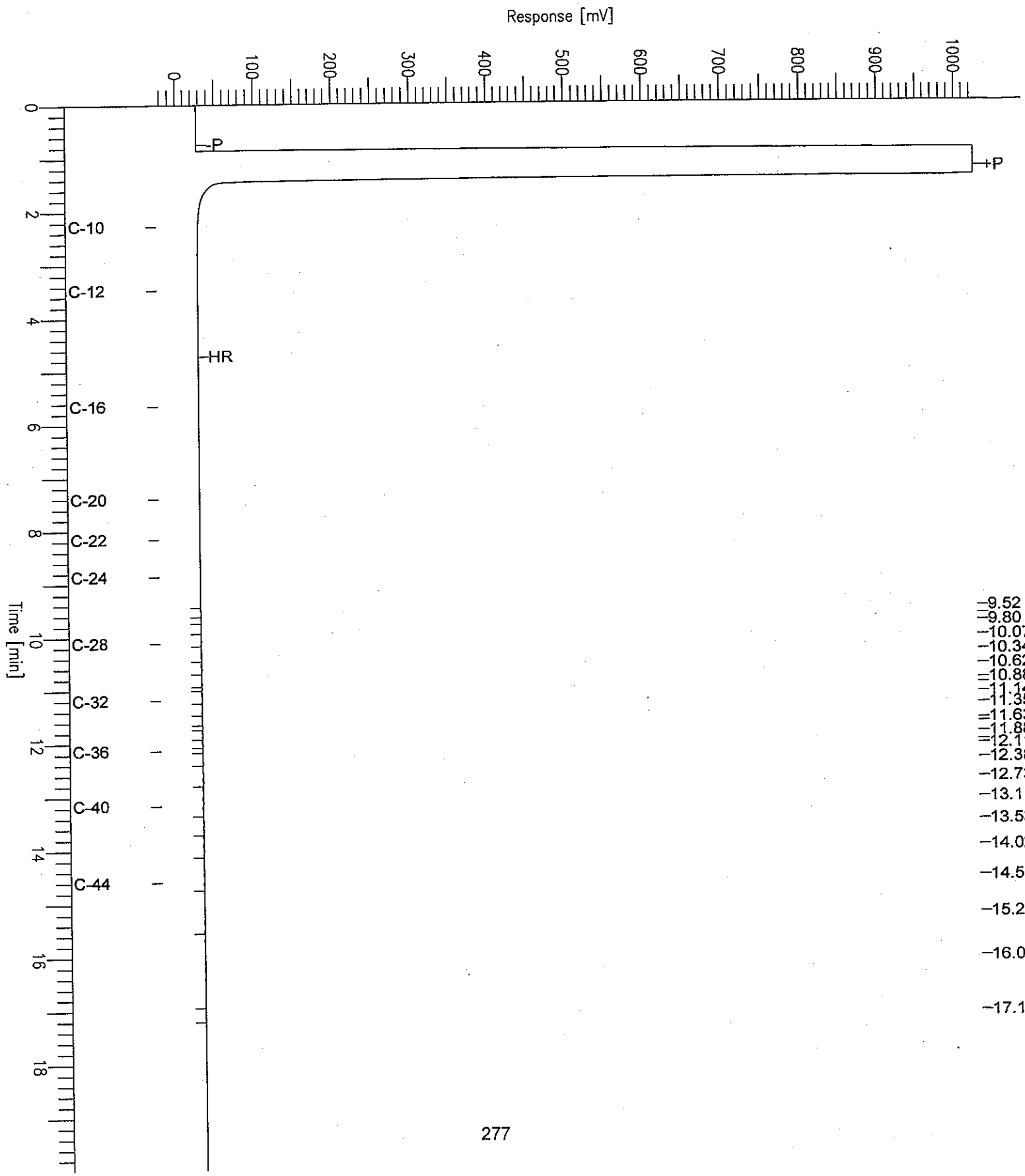
Analyzed By:_____ Reviewed By:_____

Report stored in ASCII file: G:\GC13\CHB\337B002P.TX0

Chromatogram

Sample Name : ib
FileName : G:\GC13\CHB\337B002.RAW
Method : BTEH337S.MTH
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: -25 mV

Sample #:
Date : 12/2/04 01:29 PM
Time of Injection: 12/2/04 12:02 PM
Low Point : -25.02 mV High Point : 1024.00 mV
Plot Scale: 1049.0 mV



MOISTURE DATA

Percent Moisture Summary Report

Batch: 96865
Date: 11/24/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176248-001	15.5434	23.9600	23.4925	94	6
176248-002	15.4465	23.5327	23.3143	97	3
176248-003	14.9821	22.6910	22.5478	98	2
176248-004	15.3700	22.9022	22.3052	92	8
176248-005	15.0683	22.2974	21.7303	92	8
176249-016	15.5595	22.1219	20.7060	78	22
176249-017	15.2583	22.1430	20.9833	83	17
176249-019	15.3766	22.4577	20.5212	73	27
176249-020	15.2447	22.4425	21.1445	82	18
176250-010	15.5308	23.1413	21.7977	82	18
176250-011	15.5331	23.8455	21.9568	77	23
176250-012	15.3151	23.8502	21.9372	78	22
QC273791	15.4170	22.1651	21.8127	95	5
of 176248-001			RPD:	0.4%	6.2%

Curtis & Tompkins Laboratories Sample Batch Report

Curtis & Tompkins, Ltd.

Batch Number: 96865
Date Started: 24-NOV-2004
Batched by : Kristen Ann Carlyon

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
176248-001			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-002			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-003			Treadwell & Rollo	Soil	MOISTURE	02-DEC-2004
176248-004			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-005			Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176249-016			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-017			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-019			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-020			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-010			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-011			Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-012			Innovative Technic	Soil	MOISTURE	30-NOV-2004
QC273791	SDUP	of 176248-001		Soil	MOISTURE	

WET CHEMISTRY DEPARTMENT

DATA PACKAGE REVIEW CHECKLIST

Lab No: 96865 **Analysis:** MOISTURE

Matrix: Water ___ Soil ✓ Misc. ___ Other

I. Contents & Documentation

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		1. Sample prep information present & complete	☐	
☑	☐		2. Run logs present & complete	☐	
☑	☐		3. Sample raw data present	☐	
☑	☐		4. Standards LIMS ID's documented	☐	☐
☐	☐	☑	5. CAR present & complete (if necessary)	☐	☐
☑	☐		6. Analyst entries complete, legible, initialed		

II. Sample Results

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		7. All requested samples analyzed	☐	☐
☑	☐		8. All samples analyzed within hold	☐	☐
☑	☐		9. Units correct for sample matrix	☐	
☑	☐		10. Data transcribed correctly from raw to forms	☐	
☑	☐		11. All results within calibration range	☐	
☐	☐	☑	12. All dilutions in upper half of curve	☐	
☐	☐	☑	13. All matrix interferences documented	☐	

III. Batch QC & Calibration Checks

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐	☐	14. Method blank clean	☐	☐
☐	☐	☑	15. LCS/BS/BSD recoveries & RPD within QC limits	☐	☐
☑	☐	☐	16. Matrix QC performed on a sample in this batch? If not, ☐ Insufficient sample volume available for matrix QC, or ☐ Other (describe) ___	☐	☐
☑	☐	☐	17. Matrix QC recoveries &/or RPD within QC limits	☐	
☐	☐	☑	18. ICV recovery within QC limits	☐	
☐	☐	☑	19. CCV recoveries within QC limits		

Comments:

☐ Additional Comments Attached

Analyst: By: D. Manuel Date: 11-24-04

Peer Review By: ___ Date: ___

Group Leader Approved: ___ Date: 11/24/04

PROJECT MOISTURE

Notebook No. 2033
Continued From Page Ø

11/23/04

96865

Sample	Dil.	Digit #	Time out	Init. int.	Fin. int.	Comments
Blank	/	3	15.4086	—	15.4087	
176248-001	A	4	15.5434	23.9600	23.4925	Taken from Bside
176248-001 DUP		46	15.4170	22.1651	21.8127	
-002		101	15.4465	23.5327	23.3143	
-003		16	14.9821	22.6910	22.5478	
-004		30	15.3700	22.9022	22.3052	
-005		134	15.0683	22.2974	21.7303	
176249-016	A	29	15.5595	22.1219	20.7060	COMP 1-3
-017		146	15.2583	22.1430	20.9833	COMP 4-6
~~-018~~		~~39~~	~~15.4996~~	~~23.0892~~	~~21.8672~~	~~Repeat COMP 8,9~~
-019		40	15.3766	22.4577	20.5272	COMP 10-12
-020		24	15.2447	22.4425	21.1245	COMP 13-15
176250-010	A	18	15.5308	23.1413	21.7977	COMP 1-3
011	A	177	15.5331	23.8455	21.9568	COMP 4-6
012	A	34	15.3151	23.8502	21.9372	COMP 7-9

Oven Temp: 104°C
Time In: 10:30 PM
Time Out: 10:30 A.M. On: 11-24-04

Continued on Page

Read and Understood By

Kristen Carlyon 11/23/04
Signed Date

Signed 11/24/04
Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 / -

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RSM				
103°C	11-2-04	RSM				
105°C	11-3-04	RSM				
104°C	11-4-04	RSM				
105°C	11-5-04	RSM				
103°C	11-8-04	RSM				
104	~~11-9-04~~	RSM				
105°C	11-10-04	RSM				
105°C	11-11-04	RSM				
105°C	11-12-04	RSM				
105°C	11-15-04	RSM				
105°C	11-16-04	RSM				
105°C	11-17-04	RSM				
104°C	11-18-04	RSM				
104°C	11-19-04	RSM				
103°C	11-22-04	RSM				
103°C	11-23-04	RSM				
103°C	11-24-04	RSM				

PROJECT METTLER A-E 200 BALANCE

Notebook No. [illegible]

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RGM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RGM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RGM	35298

Continued on Page

Read and Understood By

Signed	Date	Signed	Date
R. Manuel	11-22-04		

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Purgeable Organics by GC/MS
Matrix: Water

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
TB112304A	176248-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
VOLATILE ORGANICS BY GC/MS (EPA 8260B)
WATER

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 11/23/04. The sample was received cold and intact.

Volatile Organics by GC/MS (EPA 8260B) Water:
Low response was observed for Freon 12 in the ICV analyzed 11/21/04 21:19; this analyte was not detected at or above the RL in the associated samples.

No other analytical problems were encountered.

Chain of Custody

176248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sandy Reinis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Metals	PCB	Pesticides	VOCs	SVOCs	mercury	Chlor. Herb.	TPH-d	TPH-g				Silica gel clean-up	Hold	Remarks
-1 BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X												~~MS/MSD~~ DUP
-2 DUP112304A		1242		X						1		X	X	X												
-3 BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X				X		* 5 day TAT MS/MSD
-4 BB3EX151[0.5]		1254		X						1		X	X	X												
-5 BB3EX152[0.5]		1257		X						1		X	X	X												MS/MSD
-6 TB112304A		1315		X			2								X											

Sand
Sand
Soil
Chart
Chart

LEVEL IV data package
Sample all tubes, have cap labeled with a "B"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/23/04	1455	Tony Pope	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rolo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

_____

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB112304A	Batch#:	96868
Lab ID:	176248-006	Sampled:	11/23/04
Matrix:	Water	Received:	11/23/04
Units:	ug/L	Analyzed:	11/24/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	TB112304A	Batch#:	96868
Lab ID:	176248-006	Sampled:	11/23/04
Matrix:	Water	Received:	11/23/04
Units:	ug/L	Analyzed:	11/24/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-120
1,2-Dichloroethane-d4	116	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	110	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273798	Batch#:	96868
Matrix:	Water	Analyzed:	11/24/04
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC273798	Batch#:	96868
Matrix:	Water	Analyzed:	11/24/04
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	97	80-120
Toluene-d8	97	80-120
Bromofluorobenzene	108	80-122

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	96868
Units:	ug/L	Analyzed:	11/24/04
Diln Fac:	1.000		

Type: BS Lab ID: QC273796

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	42.67	85	75-120
Benzene	50.00	44.26	89	79-120
Trichloroethene	50.00	42.05	84	79-120
Toluene	50.00	41.98	84	80-120
Chlorobenzene	50.00	49.22	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	96	80-120
Toluene-d8	96	80-120
Bromofluorobenzene	103	80-122

Type: BSD Lab ID: QC273797

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	44.64	89	75-120	5	20
Benzene	50.00	46.21	92	79-120	4	20
Trichloroethene	50.00	45.26	91	79-120	7	20
Toluene	50.00	46.19	92	80-120	10	20
Chlorobenzene	50.00	49.29	99	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	102	80-120
Toluene-d8	99	80-120
Bromofluorobenzene	109	80-122

RPD= Relative Percent Difference

8260W ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

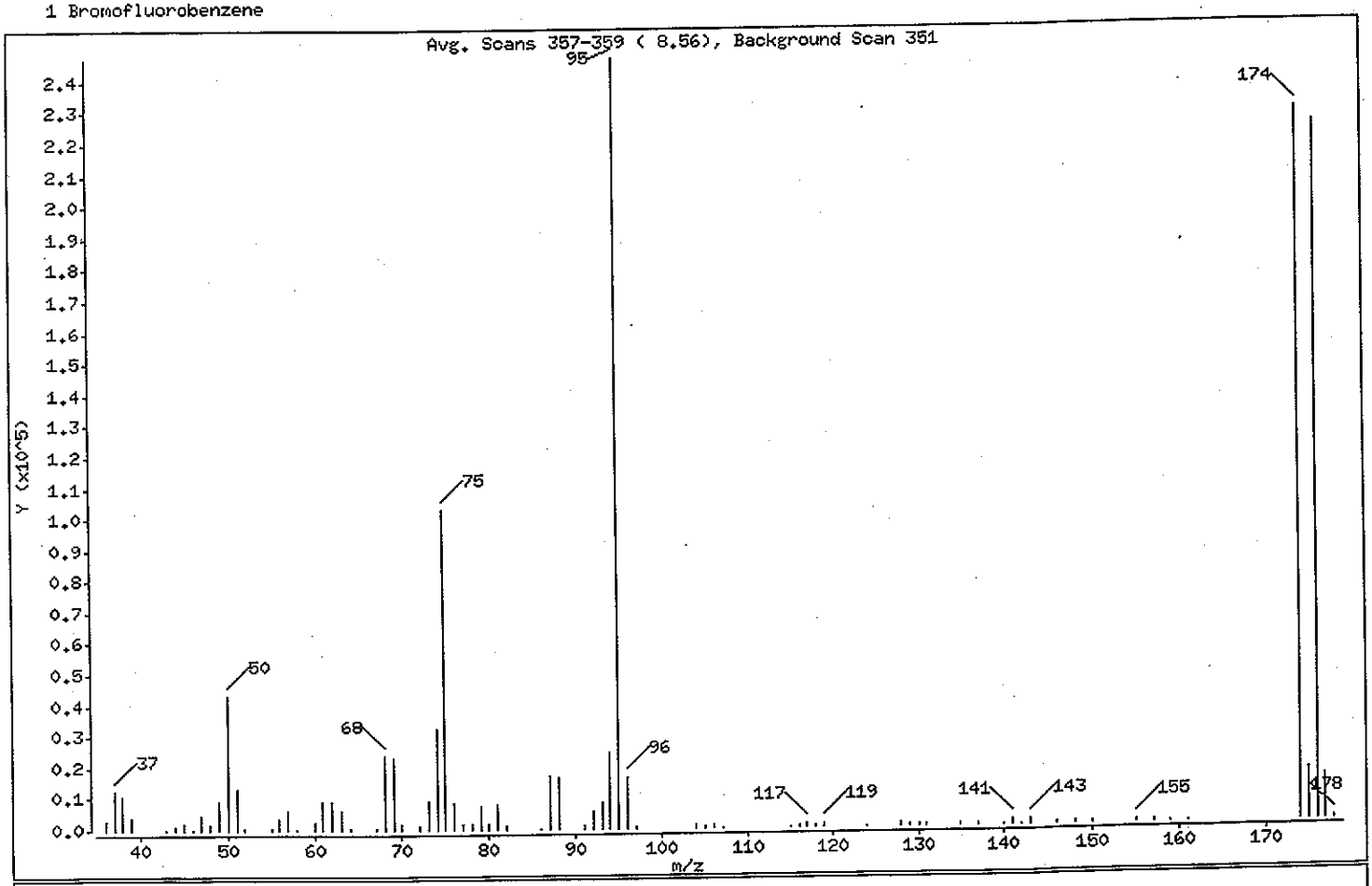
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	41.55
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	92.38
175	5.00 - 9.00% of mass 174	6.66 (7.21)
176	95.01 - 100.99% of mass 174	90.67 (98.15)
177	5.00 - 9.00% of mass 176	5.78 (6.38)

pr 11/22/04

11/22/04

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK005.D

Date : 24-NOV-2004 10:40

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

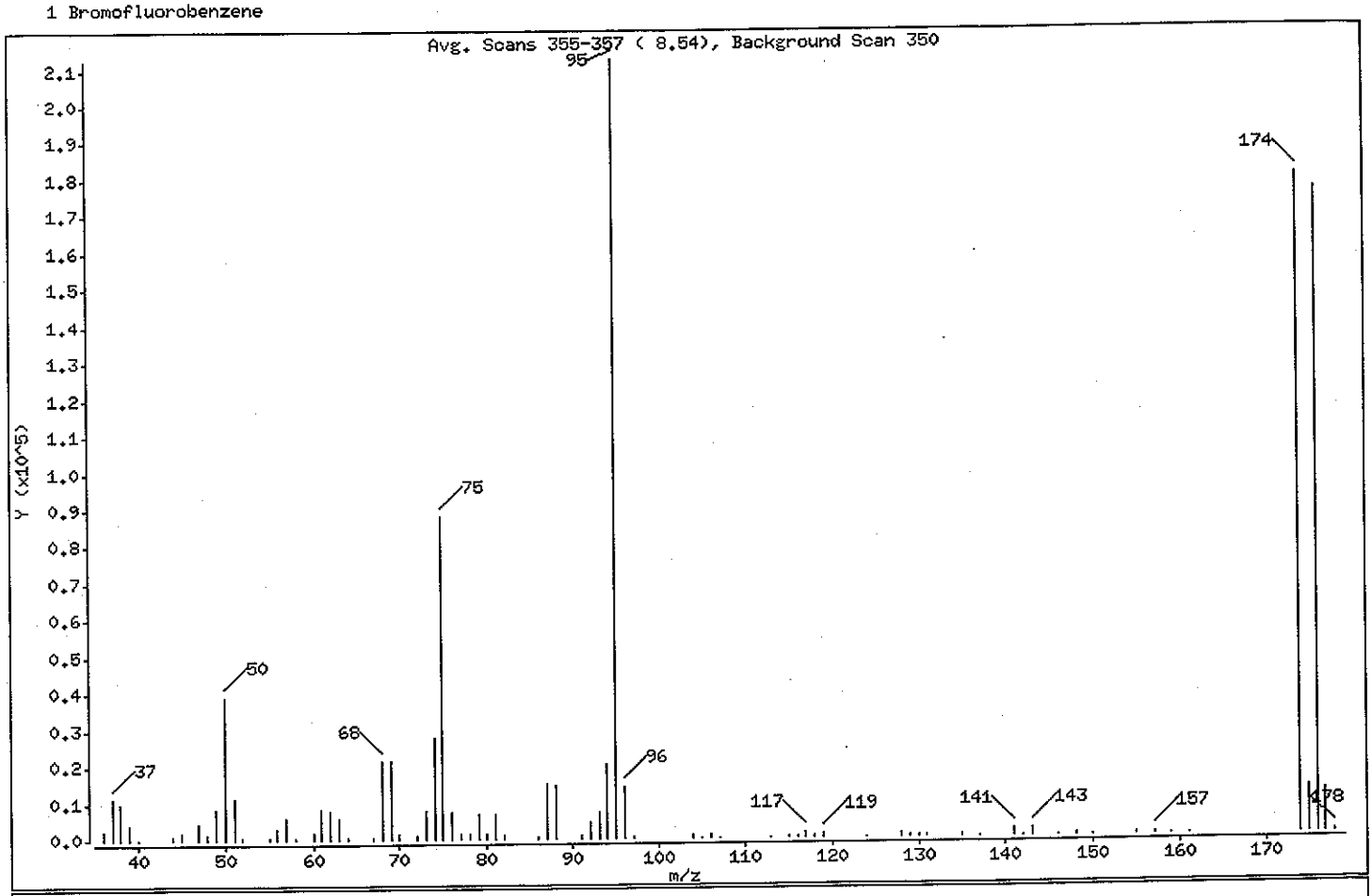
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.31
75	30.00 - 60.00% of mass 95	41.33
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	84.71
175	5.00 - 9.00% of mass 174	6.07 (7.17)
176	95.01 - 100.99% of mass 174	82.69 (97.62)
177	5.00 - 9.00% of mass 176	5.63 (6.80)

pm 11 29 04

11/29/04

8260W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	ik107	484470109007	0.5/1PPB	21-NOV-2004 17:13	04SS393 (500000X), 04WS2167A (500000X), 04WS2204A (1000000X), 04WS2096 (5000X)
2	ik108	484470109008	5PPB	21-NOV-2004 17:48	04SS393 (100000X), 04WS2167A (50000X), 04WS2204A (200000X), 04WS2096 (5000X)
3	ik109	484470109009	10PPB	21-NOV-2004 18:22	04SS393 (50000X), 04WS2167A (25000X), 04WS2204A (100000X), 04WS2096 (5000X)
4	ik110	484470109010	20PPB	21-NOV-2004 18:57	04SS393 (25000X), 04WS2167A (12500X), 04WS2204A (50000X), 04WS2096 (5000X)
5	ik111	484470109011	50PPB	21-NOV-2004 19:31	04SS393 (10000X), 04WS2167A (5000X), 04WS2204A (20000X), 04WS2096 (5000X)
6	ik112	484470109012	75PPB	21-NOV-2004 20:06	04SS393 (6667X), 04WS2167A (3333X), 04WS2204A (13333X), 04WS2096 (5000X)
7	ik113	484470109013	100PPB	21-NOV-2004 20:40	04SS393 (5000X), 04WS2167A (2500X), 04WS2204A (10000X), 04WS2096 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.3466	0.4055	0.3536	0.4576	0.4435	0.4307	0.4051	AVRG	R		2.462567		ug/L	0.4061	11	0.0500	0.99	15	
Chloromethane	0.5484m	0.5383	0.5128	0.5055	0.4534	0.4412	0.4005	AVRG	R		2.058765		ug/L	0.4857	11	0.1000	0.99	15	
Vinyl Chloride	0.3204	0.3416	0.3027	0.3113	0.2726	0.2460		AVRG	R		3.343299		ug/L	0.2991	12	0.0500	0.99	15	
Bromomethane	0.2248	0.1629m	0.1701	0.1829	0.1881	0.2265	0.2287	AVRG	R		5.057831		ug/L	0.1977	14	0.0500	0.99	15	
Chloroethane	0.2144	0.2338	0.2102m	0.2281	0.2004	0.2078	0.1738	AVRG	R		4.766932		ug/L	0.2098	9	0.0500	0.99	15	
Trichlorofluoromethane	0.5056	0.5896	0.5235	0.6032	0.6174	0.6042	0.5522	AVRG	R		1.751893		ug/L	0.5708	8	0.0500	0.99	15	
Acetone		0.1415	0.1519	0.1338	0.1205	0.1244	0.1199	AVRG	R		7.575668		ug/L	0.1320	10	0.0500	0.99	15	
Freon 113	0.2973	0.3511	0.3150	0.3626	0.3517	0.3895	0.3752	AVRG	R		2.865867		ug/L	0.3489	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3545	0.3681	0.3680	0.3601	0.3705	0.3995	0.3653	AVRG	R		2.706916		ug/L	0.3694	4	0.0500	0.99	15	
Methylene Chloride		0.5611	0.5690	0.5399	0.4949	0.4795	0.4396	AVRG	R		1.945558		ug/L	0.5140	10	0.0500	0.99	15	
Carbon Disulfide	1.7320	1.5661	1.5273	1.5514	1.4552	1.5154	1.4206	AVRG	R		0.650073		ug/L	1.5383	6	0.0500	0.99	15	
MTBE	0.9565	0.9604	1.0219	0.9856	0.9688	0.9433	0.9221	AVRG	R		1.035712		ug/L	0.9655	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4464	0.4668	0.4604	0.4343	0.4291	0.4312	0.4157	AVRG	R		2.269791		ug/L	0.4406	4	0.0500	0.99	15	
Vinyl Acetate		0.8660	0.9479	0.9904	0.9251	0.9341	0.8089	AVRG	R		1.096411		ug/L	0.9121	7	0.0500	0.99	15	
1,1-Dichloroethane	0.9195	0.8731	0.9210	0.8711	0.8264	0.8101	0.7369	AVRG	R		1.174847		ug/L	0.8512	8	0.1000	0.99	15	
2-Butanone		0.2068	0.2261	0.2153	0.2074	0.2185	0.1955	AVRG	R		4.726073		ug/L	0.2116	5	0.0500	0.99	15	
2,2-Dichloropropane	0.5245	0.5501	0.5178	0.5536	0.5089	0.5043	0.4834	AVRG	R		1.921712		ug/L	0.5204	5	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.5041	0.5181	0.5111	0.5314	0.4743	0.4600	0.4470	AVRG	R		2.031355		ug/L	0.4923	6	0.0500	0.99	15	

Flags used: m=manual integration for incomplete integration in Target
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

* ICAL - OK
- VC to 75 ppb
- 3rd ion missing for 1112PCE, BrFm @ 0.5 ppb

* ICV - Fr12↓, 2CLEVE↓, USMLG - CIMe↓, CS2↓

8260 W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Chloroform	0.9907	0.8460	0.8917	0.8643	0.8197	0.7833	0.7296	AVRG	R		1.181367		ug/L	0.8465	10	0.0500	0.99	15	
Bromochloromethane	0.3065	0.2985	0.3178	0.3067	0.3046	0.2945	0.2876	AVRG	R		3.308051		ug/L	0.3023	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.5242	0.5224	0.5238	0.5587	0.5323	0.5539	0.5280	AVRG	R		1.870007		ug/L	0.5348	3	0.0500	0.99	15	
1,1-Dichloropropene	0.3357	0.3581	0.3574	0.3372	0.3733	0.3941	0.3698	AVRG	R		2.771765		ug/L	0.3608	6	0.0500	0.99	15	
Carbon Tetrachloride	0.2723	0.3038	0.3023	0.3101	0.3213	0.3616	0.3459	AVRG	R		3.157021		ug/L	0.3168	9	0.0500	0.99	15	
1,2-Dichloroethane	0.3168	0.3641	0.3794	0.3621	0.3633	0.3601	0.3499	AVRG	R		2.804995		ug/L	0.3565	5	0.0500	0.99	15	
Benzene	1.0877	1.1446	1.1555	0.9874	1.0001	1.0415	1.0109	AVRG	R		0.942433		ug/L	1.0611	7	0.0500	0.99	15	
Trichloroethene	0.3072	0.3218	0.3143	0.3112	0.3000	0.3282	0.3042	AVRG	R		3.200784		ug/L	0.3124	3	0.0500	0.99	15	
1,2-Dichloropropane	0.3317	0.3300	0.3432	0.3162	0.3241	0.3281	0.3185	AVRG	R		3.054457		ug/L	0.3274	3	0.0500	0.99	15	
Bromodichloromethane	0.3630	0.4034	0.4243	0.4013	0.3967	0.4170	0.3897	AVRG	R		2.504170		ug/L	0.3993	5	0.0500	0.99	15	
Dibromomethane	0.2540	0.2610	0.2754	0.2596	0.2733	0.2791	0.2619	AVRG	R		3.754973		ug/L	0.2663	4	0.0500	0.99	15	
2-Chloroethylvinylether		0.1921	0.2233	0.2062	0.2079	0.2298	0.2211	AVRG	R		4.686068		ug/L	0.2134	7	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.2699	0.3085	0.2956	0.3043	0.2988	0.2836	AVRG	R		3.407925		ug/L	0.2934	5	0.0500	0.99	15	
Tetramethyl THF	0.5536	0.6152	0.6232	0.5813	0.6045	0.6330	0.5561	AVRG	R		1.679959		ug/L	0.5953	5	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4405	0.4796	0.5050	0.4627	0.4942	0.5076	0.4632	AVRG	R		2.087857		ug/L	0.4790	5	0.0500	0.99	15	
Toluene	0.5994	0.6456	0.6540	0.5870	0.5664	0.6386	0.5759	AVRG	R		1.640569		ug/L	0.6095	6	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.3536	0.3930	0.4180	0.4129	0.4241	0.4395	0.4140	AVRG	R		2.451788		ug/L	0.4079	7	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1502	0.1732	0.1785	0.1681	0.1691	0.1728	0.1670	AVRG	R		5.937881		ug/L	0.1684	5	0.0500	0.99	15	
2-Hexanone		0.2283	0.2414	0.2373	0.2437	0.2361	0.2492	AVRG	R		4.178095		ug/L	0.2393	3	0.0500	0.99	15	
1,3-Dichloropropane	0.5071	0.5642	0.5605	0.5175	0.5426	0.5067	0.5438	AVRG	R		1.870426		ug/L	0.5346	5	0.0500	0.99	15	
Tetrachloroethene	0.3265	0.3480	0.3166	0.3222	0.3559	0.3604	0.3508	AVRG	R		2.940669		ug/L	0.3401	5	0.0500	0.99	15	
Dibromochloromethane	0.3884	0.4493	0.4800	0.4390	0.4407	0.4657	0.4735	AVRG	R		2.231663		ug/L	0.4481	7	0.0500	0.99	15	
1,2-Dibromoethane	0.3035	0.3378	0.3545	0.3309	0.3492	0.3527	0.3398	AVRG	R		2.955571		ug/L	0.3383	5	0.0500	0.99	15	
Chlorobenzene	0.9385	0.9416	1.0128	0.8793	0.8825	0.8822	0.9181	AVRG	R		1.084424		ug/L	0.9221	5	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3190	0.3485	0.3530	0.3274	0.3480	0.3346	0.3514	AVRG	R		2.938637		ug/L	0.3403	4	0.0500	0.99	15	
Ethylbenzene	1.4301	1.5492	1.3938	1.3886	1.4299	1.4249	1.4994	AVRG	R		0.691979		ug/L	1.4451	4	0.0500	0.99	15	
m,p-Xylenes	0.5028	0.5501	0.5368	0.5435	0.5305	0.5225	0.4894	AVRG	R		1.904483		ug/L	0.5251	4	0.0500	0.99	15	
o-Xylene	0.4605	0.5379	0.5327	0.5150	0.5362	0.5203	0.5009	AVRG	R		1.942542		ug/L	0.5148	5	0.0500	0.99	15	
Styrene	0.7518	0.8984	0.9149	0.8701	0.9065	0.9272	0.8768	AVRG	R		1.139001		ug/L	0.8780	7	0.0500	0.99	15	
Bromoform	0.2995	0.2967	0.3256	0.2983	0.3318	0.3353	0.3490	AVRG	R		3.130149		ug/L	0.3195	7	0.1000	0.99	15	
Isopropylbenzene	2.2208	2.4894	2.6693	2.6839	2.8030	2.6082	2.5232	AVRG	R		0.388938		ug/L	2.5711	7	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

826OW ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.9305	0.9460	1.1377	1.0030	1.0039	0.9633	0.9524	AVRG	R		1.009114		ug/L	0.9910	7	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1389	0.1895	0.2166	0.1950	0.2119	0.1981	0.1924	AVRG	R		5.214289		ug/L	0.1918	13	0.0500	0.99	15	
Propylbenzene	3.4457	3.2925	3.7549	3.3437	3.5112	3.3981	3.1255	AVRG	R		0.293234		ug/L	3.4102	6	0.0500	0.99	15	
Bromobenzene	0.8299	0.8606	0.9918	0.8806	0.9081	0.8478	0.8328	AVRG	R		1.137910		ug/L	0.8788	6	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.9507	2.0972	2.2964	2.1085	2.1821	2.2156	1.8901	AVRG	R		0.474880		ug/L	2.1058	7	0.0500	0.99	15	
2-Chlorotoluene	2.2887	2.2410	2.4560	2.2156	2.2587	2.2358	1.9520	AVRG	R		0.447346		ug/L	2.2354	7	0.0500	0.99	15	
4-Chlorotoluene	2.2614	2.1124	2.2806	2.2075	2.1232	2.0043	1.9576	AVRG	R		0.468320		ug/L	2.1353	6	0.0500	0.99	15	
tert-Butylbenzene	1.5974	1.7573	2.0089	1.8438	1.9092	1.9928	1.6487	AVRG	R		0.548682		ug/L	1.8225	9	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.0771	2.0797	2.4881	2.2768	2.2595	2.2572	2.0753	AVRG	R		0.451213		ug/L	2.2162	7	0.0500	0.99	15	
sec-Butylbenzene	2.8263	2.7139	3.0628	2.8934	3.1218	3.1578	3.0173	AVRG	R		0.336647		ug/L	2.9705	6	0.0500	0.99	15	
para-Isopropyl Toluene	1.9391	2.2518	2.4399	2.2911	2.2697	2.3610	2.2380	AVRG	R		0.443302		ug/L	2.2558	7	0.0500	0.99	15	
1,3-Dichlorobenzene	1.2658	1.4347	1.7114	1.5203	1.4743	1.5399	1.4712	AVRG	R		0.671935		ug/L	1.4882	9	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5502	1.5115	1.6722	1.5494	1.5839	1.6216	1.4598	AVRG	R		0.639348		ug/L	1.5641	4	0.0500	0.99	15	
n-Butylbenzene	2.0251	2.1813	2.4483	2.4251	2.3584	2.3883	2.2775	AVRG	R		0.434674		ug/L	2.3006	7	0.0500	0.99	15	
1,2-Dichlorobenzene	1.4451	1.3633	1.6336	1.3762	1.5231	1.4940	1.4377	AVRG	R		0.681396		ug/L	1.4676	6	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.0953	0.1193	0.1428	0.1377	0.1488	0.1391	0.1323	AVRG	R		7.647665		ug/L	0.1308	14	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8462	0.8671	1.0344	0.9171	1.0210	1.0173	0.9572	AVRG	R		1.050993		ug/L	0.9515	8	0.0500	0.99	15	
Hexachlorobutadiene	0.3535	0.3841	0.4334	0.4041	0.4384	0.4517	0.4195	AVRG	R		2.426477		ug/L	0.4121	8	0.0500	0.99	15	
Naphthalene	1.8382	1.6841	2.1415	2.1680	2.2262	2.2561	2.0834	AVRG	R		0.486198		ug/L	2.0568	10	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8014	0.7936	0.9469	0.8960	0.9466	0.9027	0.8727	AVRG	R		1.136388		ug/L	0.8800	7	0.0500	0.99	15	
Dibromofluoromethane	0.6915	0.6771	0.6642	0.6832	0.6662	0.6947	0.6456	AVRG	R		1.482274		ug/L	0.6746	3	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.3456	0.3636	0.3813	0.3627	0.3774	0.3891	0.3655	AVRG	R		2.707833		ug/L	0.3693	4	0.0500	0.99	15	
Trifluorotoluene	0.3499	0.3520	0.3460	0.3534	0.3826	0.4201	0.3954	AVRG	R		2.693045		ug/L	0.3713	8	0.0500	0.99	15	
Toluene-d8	0.9290	0.9134	0.9522	0.9361	0.9328	0.9926	1.0014	AVRG	R		1.051440		ug/L	0.9511	4	0.0500	0.99	15	
Bromofluorobenzene	0.9657	0.8986	1.0247	0.9486	1.0281	0.9739	0.9378	AVRG	R		1.032868		ug/L	0.9682	5	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109014 Filename : ikl14 Injected : 21-NOV-2004 21:19
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS2093C (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	34.38790	ug/L	-31	30	v- ***
Chloromethane	50.00000	37.86670	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	43.13430	ug/L	-14	20	
Bromomethane	50.00000	56.91600	ug/L	14	30	
Chloroethane	50.00000	45.20230	ug/L	-10	30	
Trichlorofluoromethane	50.00000	46.64910	ug/L	-7	30	
Dibromofluoromethane	50.00000	44.08790	ug/L	-12	30	
1,2-Dichloroethane-d4	50.00000	48.18530	ug/L	-4	30	
Toluene-d8	50.00000	48.99340	ug/L	-2	30	
Bromofluorobenzene	50.00000	47.75320	ug/L	-4	30	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1014578	2.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1494029	0.39	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1206472	0.67	15.39	15.39	0.00
1,4-Dichlorobenzene-d4	568204	600946	5.76	19.69	19.69	0.00

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!=warning -=low bias v=ICV

8260 w LOQ

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	44.59970	ug/L	-11	40	
Freon 113	50.00000	52.27680	ug/L	5	30	
1,1-Dichloroethene	50.00000	44.05450	ug/L	-12	20	
Methylene Chloride	50.00000	41.68240	ug/L	-17	30	
Carbon Disulfide	50.00000	36.01470	ug/L	-28	30	!v-
MTBE	50.00000	49.11350	ug/L	-2	30	
trans-1,2-Dichloroethene	50.00000	44.12140	ug/L	-12	30	
Vinyl Acetate	50.00000	44.10440	ug/L	-12	40	
1,1-Dichloroethane	50.00000	42.86250	ug/L	-14	30	
2-Butanone	50.00000	46.86130	ug/L	-6	40	
2,2-Dichloropropane	50.00000	42.79560	ug/L	-14	30	
cis-1,2-Dichloroethene	50.00000	44.58400	ug/L	-11	30	
Chloroform	50.00000	40.71470	ug/L	-19	20	
Bromochloromethane	50.00000	44.24340	ug/L	-12	30	
1,1,1-Trichloroethane	50.00000	46.64680	ug/L	-7	30	
1,1-Dichloropropene	50.00000	48.28790	ug/L	-3	30	
Carbon Tetrachloride	50.00000	52.61100	ug/L	5	30	
1,2-Dichloroethane	50.00000	45.94130	ug/L	-8	30	
Benzene	50.00000	49.45180	ug/L	-1	30	
Trichloroethene	50.00000	49.55640	ug/L	-1	30	
1,2-Dichloropropane	50.00000	48.86640	ug/L	-2	20	
Bromodichloromethane	50.00000	48.91790	ug/L	-2	30	
Dibromomethane	50.00000	49.26520	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	15.98140	ug/L	-68	40	v- ***
4-Methyl-2-Pentanone	50.00000	50.90330	ug/L	2	40	
Tetramethyl THF	50.00000	49.03710	ug/L	-2	30	
cis-1,3-Dichloropropene	50.00000	48.98030	ug/L	-2	30	
Toluene	50.00000	50.66520	ug/L	1	20	
trans-1,3-Dichloropropene	50.00000	47.59550	ug/L	-5	30	
1,1,2-Trichloroethane	50.00000	53.18380	ug/L	6	30	
2-Hexanone	50.00000	51.15600	ug/L	2	40	
1,3-Dichloropropane	50.00000	43.85980	ug/L	-12	30	
Tetrachloroethene	50.00000	49.36900	ug/L	-1	30	
Dibromochloromethane	50.00000	47.64990	ug/L	-5	30	
1,2-Dibromoethane	50.00000	50.73340	ug/L	1	30	
Chlorobenzene	50.00000	45.07780	ug/L	-10	30	
1,1,1,2-Tetrachloroethane	50.00000	47.30650	ug/L	-5	30	
Ethylbenzene	50.00000	47.99840	ug/L	-4	20	
m,p-Xylenes	100.0000	92.15590	ug/L	-8	30	
o-Xylene	50.00000	44.78060	ug/L	-10	30	
Styrene	50.00000	47.16190	ug/L	-6	30	
Bromoform	50.00000	48.96620	ug/L	-2	30	
Isopropylbenzene	50.00000	43.46750	ug/L	-13	30	
1,1,2,2-Tetrachloroethane	50.00000	45.24820	ug/L	-10	30	
1,2,3-Trichloropropane	50.00000	45.77170	ug/L	-8	30	
Propylbenzene	50.00000	48.14630	ug/L	-4	30	
Bromobenzene	50.00000	49.60180	ug/L	-1	30	

!=warning -=low bias v=ICV

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8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	48.55720	ug/L	-3	30	
2-Chlorotoluene	50.00000	45.52670	ug/L	-9	30	
4-Chlorotoluene	50.00000	46.73920	ug/L	-7	30	
tert-Butylbenzene	50.00000	47.08890	ug/L	-6	30	
1,2,4-Trimethylbenzene	50.00000	47.63740	ug/L	-5	30	
sec-Butylbenzene	50.00000	46.39300	ug/L	-7	30	
para-Isopropyl Toluene	50.00000	45.37760	ug/L	-9	30	
1,3-Dichlorobenzene	50.00000	47.82840	ug/L	-4	30	
1,4-Dichlorobenzene	50.00000	45.70340	ug/L	-9	30	
n-Butylbenzene	50.00000	49.55680	ug/L	-1	30	
1,2-Dichlorobenzene	50.00000	47.21460	ug/L	-6	30	
1,2-Dibromo-3-Chloropropane	50.00000	48.61860	ug/L	-3	30	
1,2,4-Trichlorobenzene	50.00000	50.59590	ug/L	1	30	
Hexachlorobutadiene	50.00000	52.53790	ug/L	5	30	
Naphthalene	50.00000	46.10110	ug/L	-8	30	
1,2,3-Trichlorobenzene	50.00000	50.61160	ug/L	1	30	
Dibromofluoromethane	50.00000	45.18460	ug/L	-10	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	47.15140	ug/L	-6	30	(NOT USED)
Toluene-d8	50.00000	51.34820	ug/L	3	30	(NOT USED)
Bromofluorobenzene	50.00000	48.96160	ug/L	-2	30	(NOT USED)

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1034484	4.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1417615	-4.75	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1227374	2.41	15.39	15.38	-0.01
1,4-Dichlorobenzene-d4	568204	589573	3.76	19.69	19.68	-0.01

!=warning -=low bias v=ICV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB IDF : 1.0
Seqnum : 484474272006 Filename : iko06 Injected : 24-NOV-2004 10:58
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04SS408 (10000X), 04WS2167B (5000X), 04WS2204A (20000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4061	0.4754	50.00000	58.53460	ug/L	17	30	0.0500	
Chloromethane	0.4857	0.4278	50.00000	44.03460	ug/L	-12	30	0.1000	
Vinyl Chloride	0.2991	0.2481	50.00000	41.47150	ug/L	-17	20	0.0500	
Bromomethane	0.1977	0.2362	50.00000	59.72080	ug/L	19	30	0.0500	
Chloroethane	0.2098	0.1951	50.00000	46.50240	ug/L	-7	30	0.0500	
Trichlorofluoromethane	0.5708	0.5632	50.00000	49.32980	ug/L	-1	30	0.0500	
Acetone	0.1320	0.1438	50.00000	54.45850	ug/L	9	40	0.0500	
Freon 113	0.3489	0.3209	50.00000	45.98170	ug/L	-8	30	0.0500	
1,1-Dichloroethene	0.3694	0.3153	50.00000	42.67210	ug/L	-15	20	0.0500	
Methylene Chloride	0.5140	0.4577	50.00000	44.52610	ug/L	-11	30	0.0500	
Carbon Disulfide	1.5383	1.3100	50.00000	42.57950	ug/L	-15	30	0.0500	
MTBE	0.9655	0.7781	50.00000	40.29430	ug/L	-19	30	0.0500	
trans-1,2-Dichloroethene	0.4406	0.3845	50.00000	43.63320	ug/L	-13	30	0.0500	
Vinyl Acetate	0.9121	0.8411	50.00000	46.10730	ug/L	-8	40	0.0500	
1,1-Dichloroethane	0.8512	0.7114	50.00000	41.78660	ug/L	-16	30	0.1000	
2-Butanone	0.2116	0.2044	50.00000	48.30800	ug/L	-3	40	0.0500	
2,2-Dichloropropane	0.5204	0.4544	50.00000	43.66220	ug/L	-13	30	0.0500	
cis-1,2-Dichloroethene	0.4923	0.4205	50.00000	42.71120	ug/L	-15	30	0.0500	
Chloroform	0.8465	0.7058	50.00000	41.69130	ug/L	-17	20	0.0500	
Bromochloromethane	0.3023	0.2555	50.00000	42.25350	ug/L	-15	30	0.0500	
1,1,1-Trichloroethane	0.5348	0.4748	50.00000	44.39220	ug/L	-11	30	0.0500	
1,1-Dichloropropene	0.3608	0.3306	50.00000	45.82320	ug/L	-8	30	0.0500	
Carbon Tetrachloride	0.3168	0.2832	50.00000	44.70450	ug/L	-11	30	0.0500	
1,2-Dichloroethane	0.3565	0.3267	50.00000	45.81280	ug/L	-8	30	0.0500	
Benzene	1.0611	0.9392	50.00000	44.25650	ug/L	-11	30	0.0500	
Trichloroethene	0.3124	0.2627	50.00000	42.04650	ug/L	-16	30	0.0500	
1,2-Dichloropropane	0.3274	0.3103	50.00000	47.38880	ug/L	-5	20	0.0500	
Bromodichloromethane	0.3993	0.3341	50.00000	41.82930	ug/L	-16	30	0.0500	
Dibromomethane	0.2663	0.2428	50.00000	45.58240	ug/L	-9	30	0.0500	
2-Chloroethylvinylether	0.2134	0.1951	50.00000	45.70170	ug/L	-9	40	0.0500	
4-Methyl-2-Pentanone	0.2934	0.2472	50.00000	42.12760	ug/L	-16	40	0.0500	
Tetramethyl THF	0.5953	0.5547	50.00000	46.59290	ug/L	-7	30	0.0500	
cis-1,3-Dichloropropene	0.4790	0.4450	50.00000	46.45490	ug/L	-7	30	0.0500	
Toluene	0.6095	0.5118	50.00000	41.97810	ug/L	-16	20	0.0500	
trans-1,3-Dichloropropene	0.4079	0.3744	50.00000	45.90080	ug/L	-8	30	0.0500	
1,1,2-Trichloroethane	0.1684	0.1467	50.00000	43.56110	ug/L	-13	30	0.0500	
2-Hexanone	0.2393	0.2640	50.00000	55.14960	ug/L	10	40	0.0500	
1,3-Dichloropropane	0.5346	0.5522	50.00000	51.64420	ug/L	3	30	0.0500	
Tetrachloroethene	0.3401	0.3438	50.00000	50.54530	ug/L	1	30	0.0500	
Dibromochloromethane	0.4481	0.4242	50.00000	47.33770	ug/L	-5	30	0.0500	
1,2-Dibromoethane	0.3383	0.2805	50.00000	41.45840	ug/L	-17	30	0.0500	
Chlorobenzene	0.9221	0.9078	50.00000	49.22350	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3403	0.3330	50.00000	48.93010	ug/L	-2	30	0.0500	
Ethylbenzene	1.4451	1.3181	50.00000	45.60570	ug/L	-9	20	0.0500	
m,p-Xylenes	0.5251	0.4930	100.0000	93.88770	ug/L	-6	30	0.0500	
o-Xylene	0.5148	0.4819	50.00000	46.80880	ug/L	-6	30	0.0500	

11/24/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB IDF : 1.0
Seqnum : 484474272006 Filename : iko06 Injected : 24-NOV-2004 10:58
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04SS408 (10000X), 04WS2167B (5000X), 04WS2204A (20000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.8780	0.8494	50.00000	48.37480	ug/L	-3	30	0.0500	
Bromoform	0.3195	0.3161	50.00000	49.47640	ug/L	-1	30	0.1000	
Isopropylbenzene	2.5711	2.4542	50.00000	47.72690	ug/L	-5	30	0.0500	
1,1,2,2-Tetrachloroethane	0.9910	1.0088	50.00000	50.89970	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	0.1918	0.1949	50.00000	50.81270	ug/L	2	30	0.0500	
Propylbenzene	3.4102	3.6019	50.00000	52.81010	ug/L	6	30	0.0500	
Bromobenzene	0.8788	0.8470	50.00000	48.19110	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	2.1058	2.2670	50.00000	53.82690	ug/L	8	30	0.0500	
2-Chlorotoluene	2.2354	2.3330	50.00000	52.18240	ug/L	4	30	0.0500	
4-Chlorotoluene	2.1353	2.2810	50.00000	53.41120	ug/L	7	30	0.0500	
tert-Butylbenzene	1.8225	1.8054	50.00000	49.52970	ug/L	-1	30	0.0500	
1,2,4-Trimethylbenzene	2.2162	2.2921	50.00000	51.71100	ug/L	3	30	0.0500	
sec-Butylbenzene	2.9705	3.1741	50.00000	53.42820	ug/L	7	30	0.0500	
para-Isopropyl Toluene	2.2558	2.2812	50.00000	50.56260	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	1.4882	1.4761	50.00000	49.59260	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	1.5641	1.4918	50.00000	47.68800	ug/L	-5	30	0.0500	
n-Butylbenzene	2.3006	2.4721	50.00000	53.72840	ug/L	7	30	0.0500	
1,2-Dichlorobenzene	1.4676	1.4380	50.00000	48.99210	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1308	0.1302	50.00000	49.77510	ug/L	0	30	0.0500	
1,2,4-Trichlorobenzene	0.9515	0.9694	50.00000	50.94400	ug/L	2	30	0.0500	
Hexachlorobutadiene	0.4121	0.4201	50.00000	50.97060	ug/L	2	30	0.0500	
Naphthalene	2.0568	1.9762	50.00000	48.04190	ug/L	-4	30	0.0500	
1,2,3-Trichlorobenzene	0.8800	0.8978	50.00000	51.00990	ug/L	2	30	0.0500	
Dibromofluoromethane	0.6746	0.6705	50.00000	49.69550	ug/L	-1	30	0.0500	
1,2-Dichloroethane-d4	0.3693	0.3540	50.00000	47.92780	ug/L	-4	30	0.0500	
Trifluorotoluene	0.3713	0.3050	50.00000	41.07290	ug/L	-18	30	0.0500	
Toluene-d8	0.9511	0.9110	50.00000	47.89430	ug/L	-4	30	0.0500	
Bromofluorobenzene	0.9682	0.9976	50.00000	51.51890	ug/L	3	30	0.0500	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	960388	-3.26	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1462120	-1.76	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1044881	-12.81	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	487985	-14.12	19.69	19.66	-0.03

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 24-NOV-2004
Sequence: 484474272 (iko)
Instrument ID: MSVOA09

ICAL Filename: ikl11
Date Analyzed: 21-NOV-2004
Time Analyzed: 19:31

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	992759	9.03	1488261	10.46	1198447	15.39	568204	19.69
LOWER LIMIT	496380	8.53	744131	9.96	599224	14.89	284102	19.19
UPPER LIMIT	1985518	9.53	2976522	10.96	2396894	15.89	1136408	20.19

TYPE	SAMPLE	#								
CCV	50PPB	003	1353024	8.99	2032850	10.43	1451074	15.36	653904	19.65
CCV	50PPB	004	1361616	9.00	2031627	10.43	1407982	15.36	689149	19.66
CCV/BS	QC273796	006	960388	9.00	1462120	10.44	1044881	15.36	487985	19.66
BSD	QC273797	007	984205	9.00	1442187	10.44	1065734	15.36	472902	19.66
BLANK	QC273798	009	983794	9.00	1517129	10.43	1113447	15.36	479479	19.66
SAMPLE	176251-001	010	948366	9.00	1455956	10.44	1054203	15.36	465749	19.66
SAMPLE	176149-009	014	924839	9.00	1415887	10.44	1031140	15.36	456341	19.66
SAMPLE	176251-002	015	908617	9.00	1336853	10.44	1007332	15.37	425601	19.67
SAMPLE	176248-006	016	870284	9.00	1350422	10.43	1030388	15.36	438940	19.66
SAMPLE	176149-011	017	925852	9.01	1415393	10.44	995667	15.37	441714	19.66
SAMPLE	176149-010	018	894124	9.00	1430176	10.44	1011716	15.36	435116	19.66
SAMPLE	176149-012	019	893985	9.00	1411517	10.43	988991	15.37	416829	19.66
SAMPLE	176149-013	020	891050	9.00	1429638	10.43	1032249	15.36	426638	19.66
SAMPLE	176238-003	021	860844	9.00	1401824	10.44	983584	15.36	433652	19.66
SAMPLE	176238-004	022	896707	9.00	1444565	10.44	1017108	15.36	431616	19.66
SAMPLE	176238-005	023	878741	9.00	1425865	10.44	1009714	15.36	422047	19.66
SAMPLE	176238-008	024	881983	9.00	1452092	10.43	990520	15.36	398203	19.65
SAMPLE	176238-009	025	890534	9.00	1408041	10.44	972702	15.36	428609	19.66
SAMPLE	176201-001	026	874809	8.99	1401301	10.43	945721	15.37	426141	19.66

8260W ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 484470109 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 21-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	ik101	X	IB			21-NOV-2004 11:09	1.0					1	
002	ik102	X	LOW PT			21-NOV-2004 12:00	1.0					1	
003	ik103	X	IB			21-NOV-2004 12:35	1.0					1	
004	ik104	TUN	BFB			21-NOV-2004 15:29	1.0					2	
005	ik105	X	IB			21-NOV-2004 16:02	1.0					1	
006	ik106	X	CALIB IB			21-NOV-2004 16:36	1.0					1	
007	ik107	ICAL	0.5/1PPB			21-NOV-2004 17:13	1.0					3 4 5 1	
008	ik108	ICAL	5PPB			21-NOV-2004 17:48	1.0					3 4 5 1	
009	ik109	ICAL	10PPB			21-NOV-2004 18:22	1.0					3 4 5 1	
010	ik110	ICAL	20PPB			21-NOV-2004 18:57	1.0					3 4 5 1	
011	ik111	ICAL	50PPB			21-NOV-2004 19:31	1.0					3 4 5 1	
012	ik112	ICAL	75PPB			21-NOV-2004 20:06	1.0					3 4 5 1	
013	ik113	ICAL	100PPB			21-NOV-2004 20:40	1.0					3 4 5 1	
014	ik114	ICV	50PPB			21-NOV-2004 21:19	1.0	1	5000			6 1	
015	ik115	ICV	50PPB			21-NOV-2004 21:54	1.0	1	5000			7 8 1	
016	ik116	X	IB			21-NOV-2004 22:28	1.0					1	
017	ik117	X	IB			21-NOV-2004 23:02	1.0					1	
018	ik118	X	IB			21-NOV-2004 23:37	1.0					1	

* ICAL - OK
- VC to 75 ppb
- 3rd ion missing for 1112 PCE ; Perform @ 0.5 ppb

* ICV - Fr 12↓, 2CLEVE↓, USACG - ClMe↓, CS2↓

Stds used: 1=04WS2096 2=04WS1238 3=04SS393 4=04WS2167A 5=04WS2204A 6=04WS2093C 7=04WS1939B 8=04WS1940D

Analyst: [illegible] Date: 11/22/04

Page 1 of 1

11/22/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

6

Sequence: 484474272 Instrument: MSVOA09 HP GCMS VOA 09 Begun: 24-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	iko01	X	IB			24-NOV-2004 08:32	1.0						1	
002	iko02	X	BFB			24-NOV-2004 09:03	1.0						2	
003	iko03	CCV	50PPB not used			24-NOV-2004 09:20	1.0	74		5000			3 4 5 1 ?t cc-	
004	iko04	CCV	50PPB			24-NOV-2004 09:55	1.0	74		5000			3 4 5 1 ?t cc-	
005	iko05	TUN	BFB			24-NOV-2004 10:40	1.0						2	
006	iko06	CCV/BS	QC273796	96868	Water	24-NOV-2004 10:58	1.0	2		5000			3 4 5 1	
007	iko07	BSD	QC273797	96868	Water	24-NOV-2004 11:32	1.0	2		5000			1 3 4 5	
008	iko08	X	IB			24-NOV-2004 12:10	1.0						1	
009	iko09	BLANK	QC273798	96868	Water	24-NOV-2004 12:45	1.0		1	5000			1	
010	iko10	SAMPLE	176251-001	96868	Water	24-NOV-2004 13:20	1.0			5000	B	L2	1	
011	iko11	X	176174-003	96868	Water	24-NOV-2004 13:55	1.0			5000	6	7	1 not needed	
012	iko12	X	QC273547	96805	Water	24-NOV-2004 14:31	1.0			5000	HJ		6 7 8 1	
013	iko13	X	QC273547	96805	Water	24-NOV-2004 15:06	1.0			5000			6 7 8 1	
014	iko14	SAMPLE	176149-009	96868	Water	24-NOV-2004 15:40	1.0			5000	B	L2	1	
015	iko15	SAMPLE	176251-002	96868	Water	24-NOV-2004 16:15	1.0			5000	A		1	
016	iko16	SAMPLE	176248-006	96868	Water	24-NOV-2004 16:50	1.0			5000			1	
017	iko17	SAMPLE	176149-011	96868	Water	24-NOV-2004 17:24	1.0			5000			1	
018	iko18	SAMPLE	176149-010	96868	Water	24-NOV-2004 17:58	1.0			5000			1	
019	iko19	SAMPLE	176149-012	96868	Water	24-NOV-2004 18:36	1.0			5000	B		1	
020	iko20	SAMPLE	176149-013	96868	Water	24-NOV-2004 19:10	1.0			5000			1	
021	iko21	SAMPLE	176238-003	96868	Water	24-NOV-2004 19:49	1.0		1	5000	C	6	1 12DCA ↑ → NO OK	
022	iko22	SAMPLE	176238-004	96868	Water	24-NOV-2004 20:23	1.0		1	5000		7	1	
023	iko23	SAMPLE	176238-005	96868	Water	24-NOV-2004 20:58	1.0		1	5000		6	1	
024	iko24	SAMPLE	176238-008	96868	Water	24-NOV-2004 21:32	2.0		1	5000		7	1 RR 1x O.D.	
025	iko25	SAMPLE	176238-009	96868	Water	24-NOV-2004 22:06	2.0			5000		8	1	
026	iko26	SAMPLE	176201-001	96868	Water	24-NOV-2004 22:40	7.143			5000	B	L2	1	
027	iko27	X	IB			24-NOV-2004 23:15	1.0						1	
028	iko28	X	IB			24-NOV-2004 23:50	1.0						1	
029	iko29	X	IB			25-NOV-2004 00:24	1.0						1	

Stds used: 1=04WS2096 2=04WS1238 3=04SS408 4=04WS2167B 5=04WS2204A 6=04WS2093C 7=04WS1939B 8=04WS1940D
Flags used: -=low bias ?t=missing tune cc=CCV CCC failure

ICAL - OK
ICV - F12↓; 2 allowed↓ (USACE - Clme↓, CS_2↓)
CCV - good

Analyst: RB Date: 11/24/04
Page 1 of 1

11/29/04

REPORTING SUMMARY FOR 176248 8260 Water
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | F | C | V | B | C | F | A | F | D | M | C | M | D | V | D | M | D | D | T | B | T | D | C | D | B | T | D | B | D | M | D | B | D | T | H | D | P | D | E | C | T | E | X | X | S | T | I | P | T | P | B | T | C | C | B | T | B | C | D | D | B | D | D | T | H | N |
|---|---|---

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: ~~12/7~~ 11/24
PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	176174-3		GHIJ	7			9	RO 1x, MS/MSD/MSD Tol App out (Ran but not needed	
2	176251-2		A	L2				TB	
3	-1		B					1x	
4	176238-3		C	6				~~Bx~~ 1x	
5	-4			7				~~15x~~ 1x	
6	-5			6				~~14x~~ 1x	
7	-8			7				2x	
8	-9			8				2x	
9	176248-6		A	L2				TB	
10	176149-9		B					1x	
11	-10		A					EB	
12	-11							TB	
13	-12		B					1x	
14	-13							1x	
15	176201-1		B	L2				7.14x	
16									
17									
18									
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PREPFORM.XLS

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	09/11/04 0.20	10/26/04 0.13	10/12/04 0.083	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	09/11/04 0.031	10/26/04 0.043	10/12/04 0.040	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	09/11/04 0.069	10/26/04 0.098	10/12/04 0.089	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	09/11/04 0.087	10/26/04 0.079	10/12/04 0.074	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	09/11/04 0.031	10/26/04 0.057	10/12/04 0.070	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	09/11/04 0.046	10/26/04 0.15	10/12/04 0.14	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	09/11/04 0.15	10/26/04 0.069	10/12/04 0.22	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	09/11/04 0.12	10/26/04 0.12	10/12/04 0.14	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	09/11/04 0.18	10/26/04 0.49	10/12/04 0.34	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	09/11/04 0.27	10/26/04 0.40	10/12/04 0.36	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	09/11/04 0.090	10/26/04 0.13	10/12/04 0.098	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L	09/15/04 1.0	10/26/04 0.63	10/12/04 0.31	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	09/11/04 0.091	10/26/04 0.099	10/12/04 0.088	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	09/11/04 0.11	10/26/04 0.27	10/12/04 0.19	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	09/11/04 0.074	10/26/04 0.18	10/12/04 0.049	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	09/11/04 0.078	10/26/04 0.037	10/12/04 0.042	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	09/11/04 0.089	10/26/04 0.21	10/12/04 0.18	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	09/11/04 0.069	10/26/04 0.061	10/12/04 0.067	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	09/11/04 0.057	10/26/04 0.059	10/12/04 0.12	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	09/11/04 0.39	10/26/04 0.41	10/12/04 0.27	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	09/11/04 0.13	10/26/04 0.17	10/12/04 0.068	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	09/11/04 0.085	10/26/04 0.12	10/12/04 0.10	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	09/11/04 0.11	10/26/04 0.044	10/12/04 0.046	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	09/11/04 0.18	10/26/04 0.082	10/12/04 0.13	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	09/11/04 0.099	10/26/04 0.041	10/12/04 0.050	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	09/11/04 0.089	10/26/04 0.24	10/12/04 0.098	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	09/11/04 0.10	10/26/04 0.086	10/12/04 0.091	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	09/11/04 0.12	10/26/04 0.097	10/12/04 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.079	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	09/11/04 0.086	10/26/04 0.068	10/12/04 0.055	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	09/11/04 0.076	10/26/04 0.078	10/12/04 0.066	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	09/11/04 0.16	10/26/04 0.071	10/12/04 0.18	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	09/11/04 0.055	10/26/04 0.094	10/12/04 0.083	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	09/11/04 0.074	10/26/04 0.079	10/12/04 0.070	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	09/11/04 0.051	10/26/04 0.12	10/12/04 0.12	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	09/11/04 0.16	10/26/04 0.24	10/12/04 0.089	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	09/11/04 0.070	10/26/04 0.075	10/12/04 0.068	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	09/11/04 0.13	10/26/04 0.14	10/12/04 0.13	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	09/11/04 0.059	10/26/04 0.13	10/12/04 0.082	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	09/11/04 0.11	10/26/04 0.090	10/12/04 0.086	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	10/26/04 0.15	10/12/04 0.10	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	09/11/04 0.13	10/26/04 0.12	10/12/04 0.084	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	09/11/04 0.055	10/26/04 0.069	10/12/04 0.069	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	09/11/04 0.093	10/26/04 0.20	10/12/04 0.20	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	09/11/04 0.087	10/26/04 0.081	10/12/04 0.096	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	09/11/04 0.092	10/26/04 0.057	10/12/04 0.062	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	09/11/04 0.080	10/26/04 0.073	10/12/04 0.098	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	09/11/04 0.11	10/26/04 0.078	10/12/04 0.060	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	09/11/04 0.036	10/26/04 0.089	10/12/04 0.076	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	09/11/04 0.15	10/26/04 0.25	10/12/04 0.11	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	09/11/04 0.091	10/26/04 0.092	10/12/04 0.062	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	09/11/04 0.14	10/26/04 0.11	10/12/04 0.11	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	09/11/04 0.088	10/26/04 0.11	10/12/04 0.077	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.099	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	09/11/04 0.12	10/26/04 0.059	10/12/04 0.063	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	09/11/04 0.10	10/26/04 0.036	10/12/04 0.050	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	09/11/04 0.13	10/26/04 0.13	10/12/04 0.096	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	09/11/04 0.061	10/26/04 0.11	10/12/04 0.063	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	09/11/04 0.066	10/26/04 0.069	10/12/04 0.085	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	09/11/04 0.036	10/26/04 0.076	10/12/04 0.068	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	09/11/04 0.12	10/26/04 0.066	10/12/04 0.093	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	09/11/04 0.14	10/26/04 0.15	10/12/04 0.12	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	09/11/04 0.066	10/26/04 0.075	10/12/04 0.078	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	09/11/04 0.37	10/26/04 0.21	10/12/04 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	09/11/04 0.11	10/26/04 0.15	10/12/04 0.21	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	09/11/04 0.21	10/26/04 0.15	10/12/04 0.20	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	09/11/04 0.16	10/26/04 0.047	10/12/04 0.083	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	09/11/04 0.072	10/26/04 0.073	10/12/04 0.11	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	09/11/04 0.71	10/26/04 1.4	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	09/11/04 0.030	10/26/04 0.062	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	09/11/04 0.069	10/26/04 0.046	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	09/11/04 0.090	10/26/04 0.096	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	09/11/04 2.8	10/26/04 7.3	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0-
Ethanol	ug/L	09/11/04 33	10/26/04 78	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L	09/11/04 1.6	10/26/04 3.6	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	09/11/04 0.24	10/26/04 1.9	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	09/11/04 0.067	10/26/04 0.066	10/12/04 0.15	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L			10/12/04 1.1	06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

29

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Samplenum:	176248-006	Cident	: TB112304A
Seqnum	: 484474272016	Matrix	: Water	Acctnum	: TREADWELL (SES)
Filename	: iko16	Batchnum	: 96868	Injected	: 24-NOV-2004 16:50
IDF	: 1.0	PDF	: 1.0	Units	: ug/L
Calnum	: 484470109001	Caldate	: 21-NOV-2004	Caltype	: WATER

Analyte	Result	RTS	RL	B=iko09	Flags
Freon 12	ND		1.0		v-
Chloromethane	ND		1.0		
Vinyl Chloride	ND		0.5		
Bromomethane	ND		1.0	0.76	B
Chloroethane	ND		1.0		
Trichlorofluoromethane	ND		1.0		
Acetone	ND		10		
Freon 113	ND		5.0		
1,1-Dichloroethene	ND		0.5		
Methylene Chloride	ND		10		
Carbon Disulfide	ND		0.5		
MTBE	ND		0.5		
trans-1,2-Dichloroethene	ND		0.5		
Vinyl Acetate	ND		10		
1,1-Dichloroethane	ND		0.5		
2-Butanone	ND		10		
cis-1,2-Dichloroethene	ND		0.5		
2,2-Dichloropropane	ND		0.5		
Chloroform	ND		0.5		
Bromochloromethane	ND		0.5		
1,1,1-Trichloroethane	ND		0.5		
1,1-Dichloropropene	ND		0.5		
Carbon Tetrachloride	ND		0.5		
1,2-Dichloroethane	ND		0.5		
Benzene	ND		0.5		
Trichloroethene	ND		0.5		
1,2-Dichloropropane	ND		0.5		
Bromodichloromethane	ND		0.5		
Dibromomethane	ND		0.5		
4-Methyl-2-Pentanone	ND		10		
cis-1,3-Dichloropropene	ND		0.5		
Toluene	ND		0.5		
trans-1,3-Dichloropropene	ND		0.5		
1,1,2-Trichloroethane	ND		0.5		
2-Hexanone	ND		10		
1,3-Dichloropropane	ND		0.5		
Tetrachloroethene	ND		0.5		
Dibromochloromethane	ND		0.5		
1,2-Dibromoethane	ND		0.5		
Chlorobenzene	ND		0.5		
1,1,1,2-Tetrachloroethane	ND		0.5		
Ethylbenzene	ND		0.5		
m,p-Xylenes	ND		0.5		

-=low bias B=method blank contamination v=ICV

Analyst: PBR Date: 11/29/04 Reviewer: [illegible] Date: 11/29/04

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Samplenum:	176248-006	Cident	: TB112304A
Seqnum	: 484474272016	Matrix	: Water	Acctnum	: TREADWELL (SES)
Filename	: iko16	Batchnum	: 96868	Injected	: 24-NOV-2004 16:50
IDF	: 1.0	PDF	: 1.0	Units	: ug/L
Calnum	: 484470109001	Caldate	: 21-NOV-2004	Caltype	: WATER

Analyte	Result	RTS	RL	B=iko09	Flags
o-Xylene	ND		0.5		
Styrene	ND		0.5		
Bromoform	ND		1.0		
Isopropylbenzene	ND		0.5		
1,1,2,2-Tetrachloroethane	ND		0.5		
1,2,3-Trichloropropane	ND		0.5		
Propylbenzene	ND		0.5		
Bromobenzene	ND		0.5		
1,3,5-Trimethylbenzene	ND		0.5		
2-Chlorotoluene	ND		0.5		
4-Chlorotoluene	ND		0.5		
tert-Butylbenzene	ND		0.5		
1,2,4-Trimethylbenzene	ND		0.5		
sec-Butylbenzene	ND		0.5		
para-Isopropyl Toluene	ND		0.5		
1,3-Dichlorobenzene	ND		0.5		
1,4-Dichlorobenzene	ND		0.5		
n-Butylbenzene	ND		0.5		
1,2-Dichlorobenzene	ND		0.5		
1,2-Dibromo-3-Chloropropane	ND		0.5		
1,2,4-Trichlorobenzene	ND		0.5		
Hexachlorobutadiene	ND		0.5		
Naphthalene	ND		0.5		
1,2,3-Trichlorobenzene	ND		0.5		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	50.00	55.17	110	80-120	
1,2-Dichloroethane-d4	50.00	57.80	116	80-120	
Toluene-d8	50.00	50.68	101	80-120	
Bromofluorobenzene	50.00	54.97	110	80-122	

ISTD (ICAL=ik111)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	870284	-12.34	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1350422	-9.26	10.46	10.43	-0.03
Chlorobenzene-d5	1198447	1030388	-14.02	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	438940	-22.75	19.69	19.66	-0.03

-=low bias B=method blank contamination v=ICV

Analyst: RB Date: 11/24/04 Reviewer: [illegible] Date: 11/29/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO16.D
Report Date: 24-Nov-2004 17:53

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 16:50 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : S,176248-006
Misc Info : 96868,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\I9M826W.m
Meth Date : 24-Nov-2004 12:36 tapsvc Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	4.861	4.883	(0.540)	808	0.23486	0.2348(a)
7 Acetone	43	5.907	5.929	(0.656)	2813	1.22459	1.2245
10 Methylene Chloride	84	6.794	6.816	(0.755)	2249	0.25149	0.2514(a)
11 Carbon Disulfide	76	6.942	6.955	(0.771)	6472	0.24173	0.2417(a)
16 2-Butanone	43	8.293	8.316	(0.921)	451	0.12258	0.1225(a)
* 20 Pentafluorobenzene	168	9.004	9.026	(1.000)	870284	50.0000	
$ 22 Dibromofluoromethane	113	9.142	9.164	(1.015)	647809	55.1676	55.1676
$ 25 1,2-Dichloroethane-d4	65	9.832	9.854	(0.942)	576526	57.8018	57.8018
* 29 1,4-Difluorobenzene	114	10.433	10.465	(1.000)	1350422	50.0000	
$ 39 Toluene-d8	98	12.869	12.882	(1.233)	1301891	50.6827	50.6827
* 48 Chlorobenzene-d5	117	15.365	15.387	(1.000)	1030388	50.0000	
$ 58 Bromofluorobenzene	95	17.475	17.497	(0.889)	467222	54.9709	54.9709
* 70 1,4-Dichlorobenzene-d4	152	19.665	19.687	(1.000)	438940	50.0000	

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO16.D
Report Date: 24-Nov-2004 17:53

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO16.D
Report Date: 24-Nov-2004 17:53

Curtis & Tompkins, Ltd.

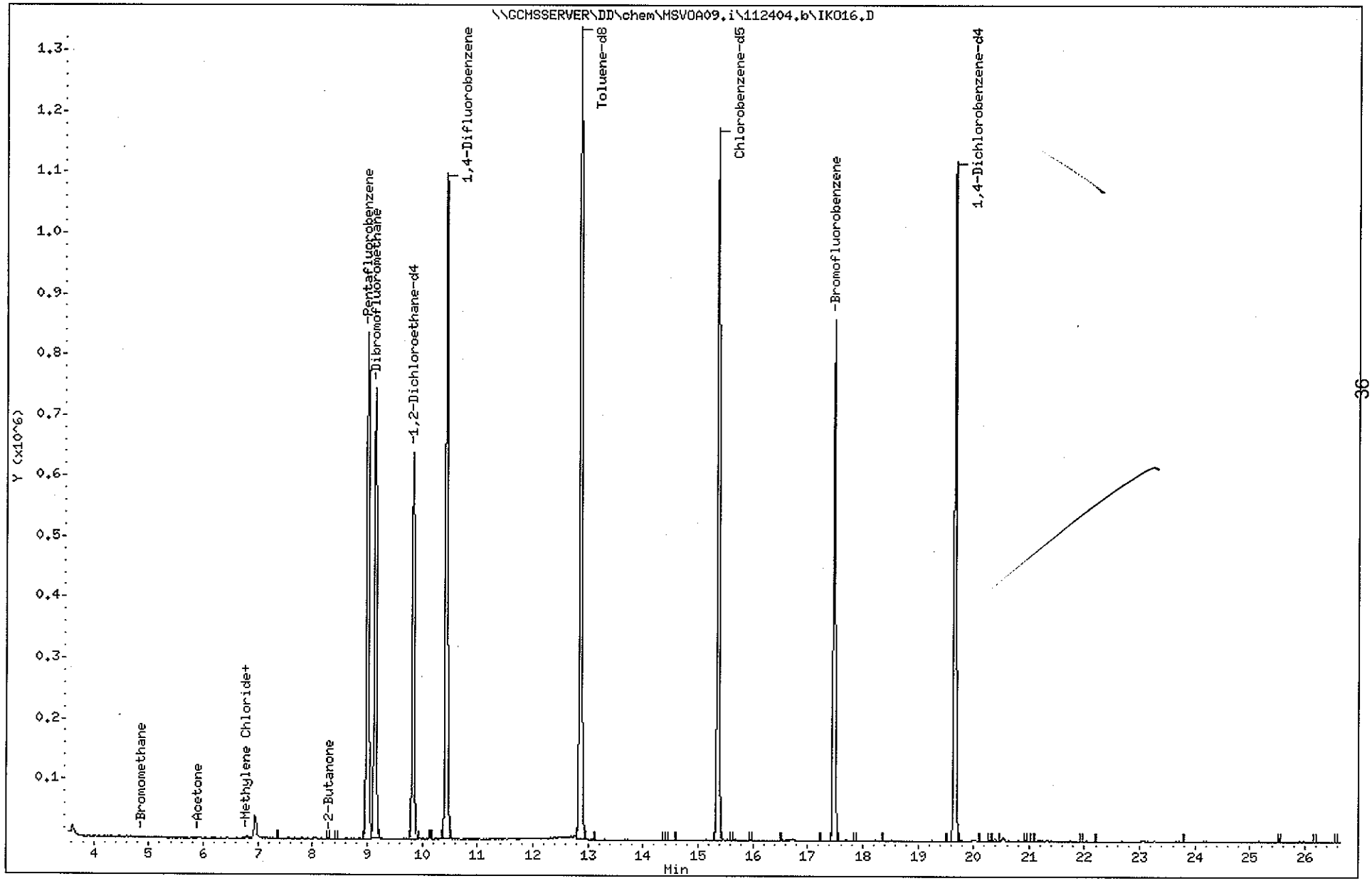
Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO16.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 16:50 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : S,176248-006
Misc Info : 96868,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\I9M826W.m
Meth Date : 24-Nov-2004 12:36 tapsvc Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK016.D
Date : 24-NOV-2004 16:50
Client ID: DYNA P&T
Sample Info: S,176248-006
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i

Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK016.D

Date : 24-NOV-2004 16:50

Client ID: DYNA P&T

Instrument: MSVOA09.i

Sample Info: S,176248-006

Purge Volume: 5.0

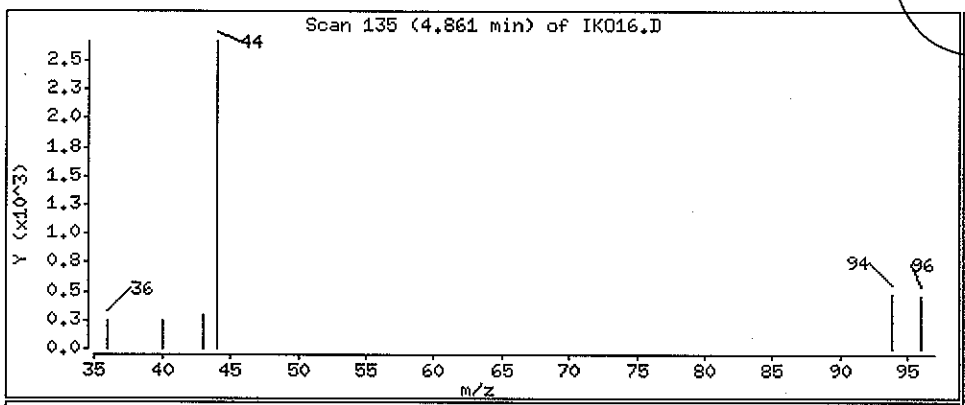
Operator: BO

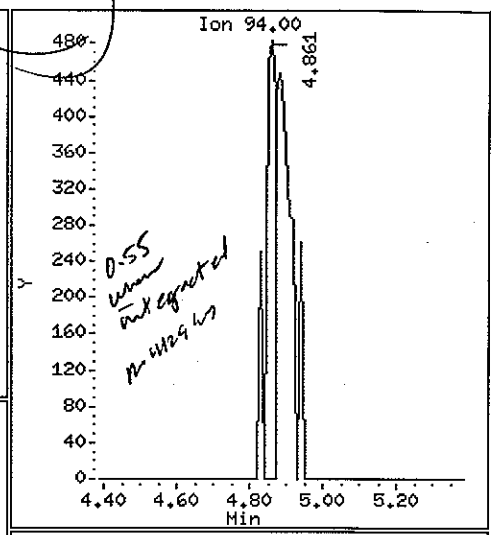
Column phase: RTx Volatiles

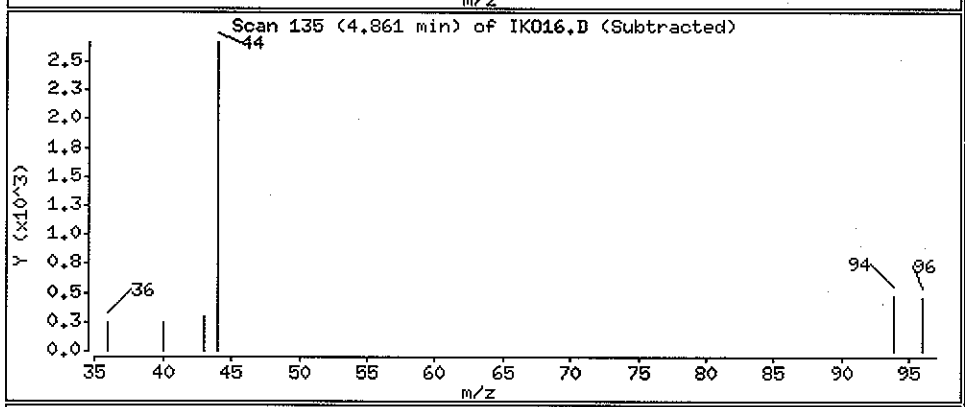
Column diameter: 0.32

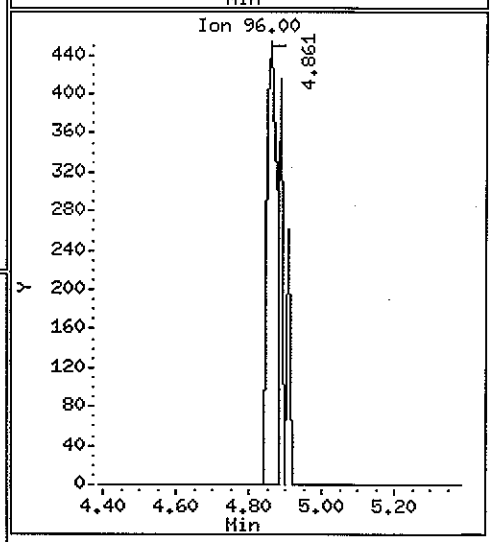
4 Bromomethane

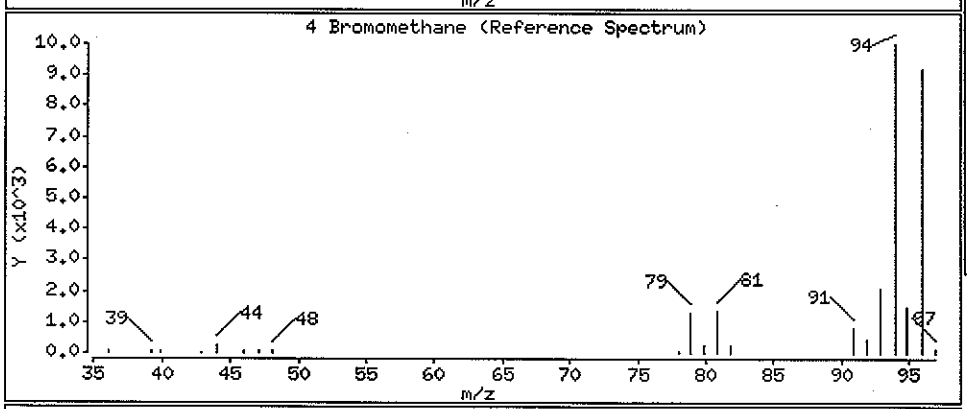
Concentration: 0.2348 UG/L

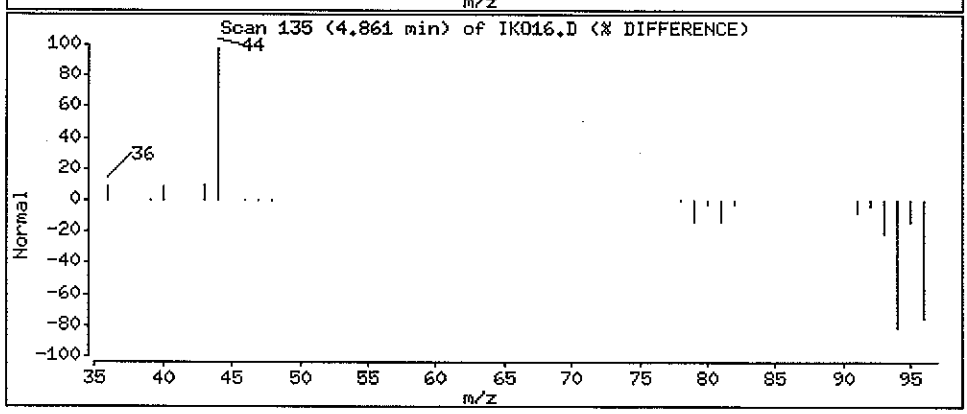












Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK016.D

Date : 24-NOV-2004 16:50

Client ID: DYNA P&T

Instrument: MSVOA09.i

Sample Info: S,176248-006

Purge Volume: 5.0

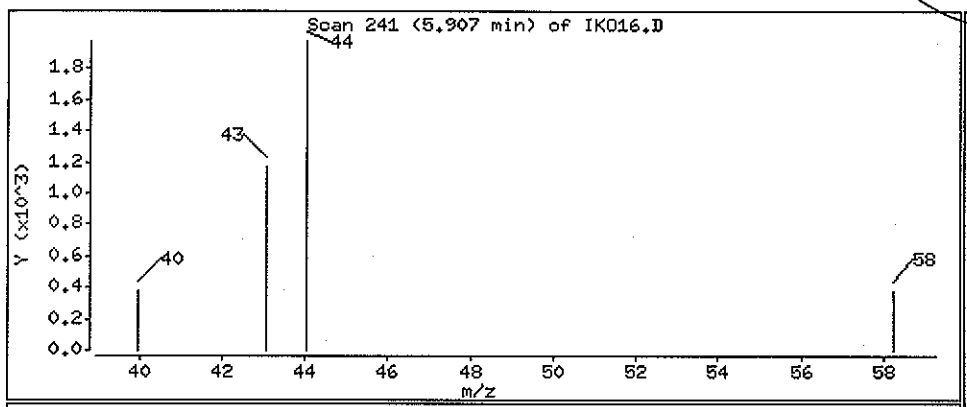
Operator: BO

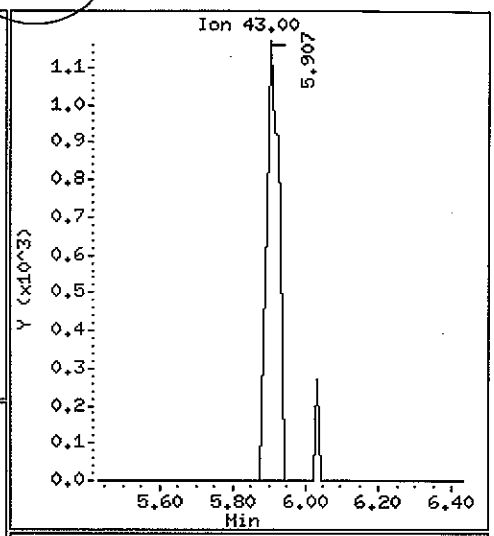
Column phase: RTx Volatiles

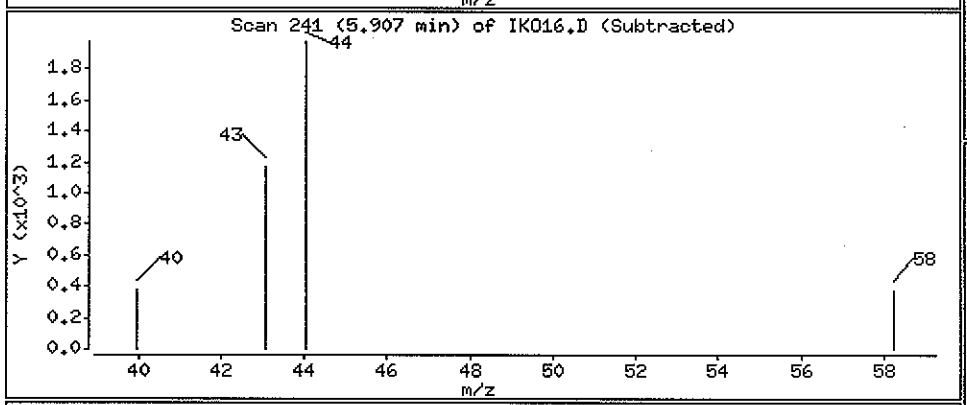
Column diameter: 0.32

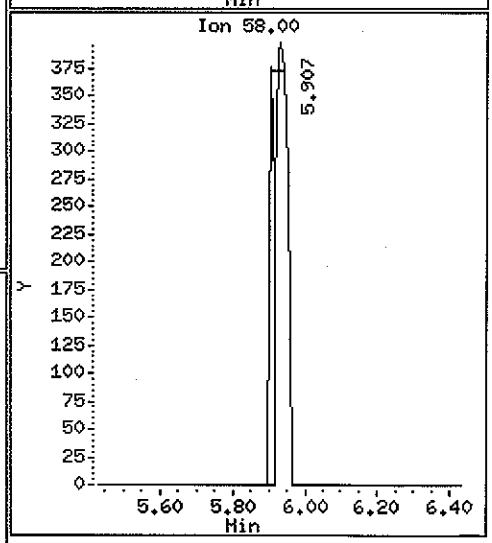
7 Acetone

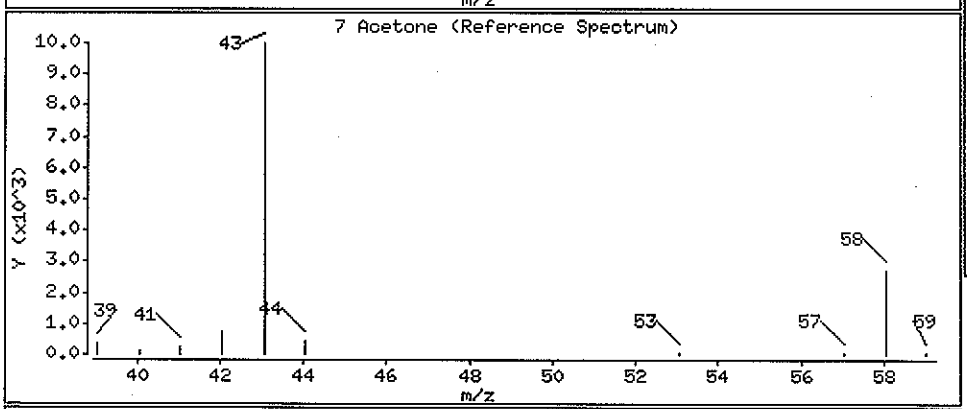
Concentration: 1.2245 UG/L

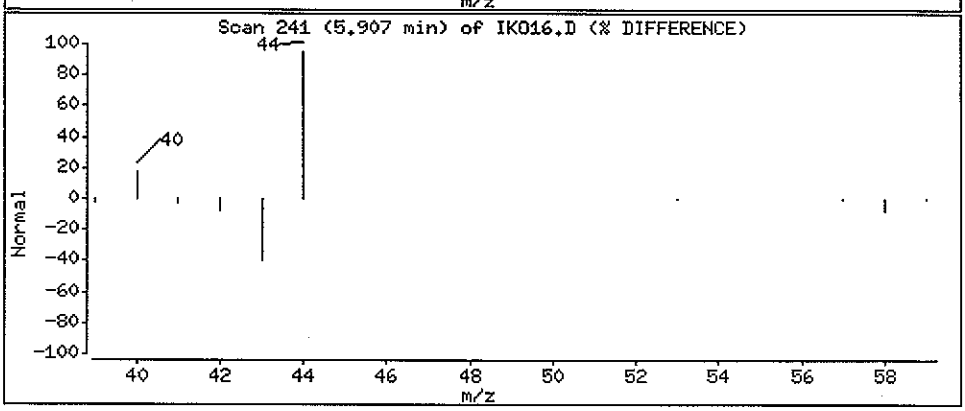












Data File: \\GCHSSERVER\DD\chem\MSVOA09.i\112404.b\IK016.D

Date : 24-NOV-2004 16:50

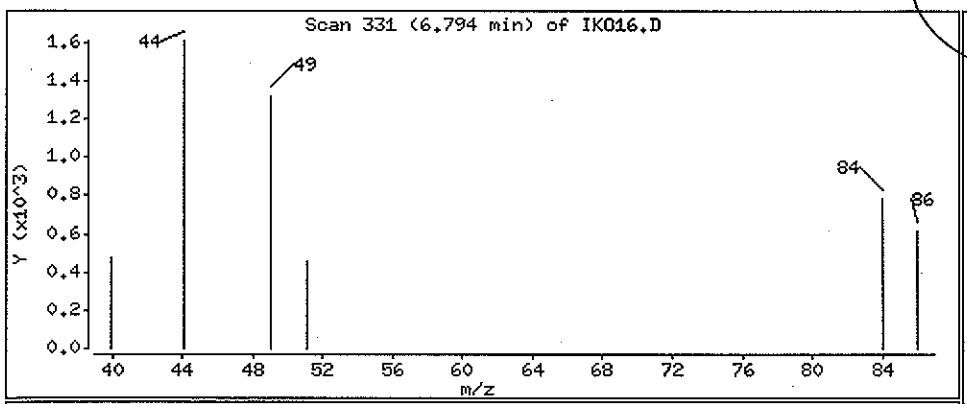
Client ID: DYNA P&T | Instrument: MSVOA09.i

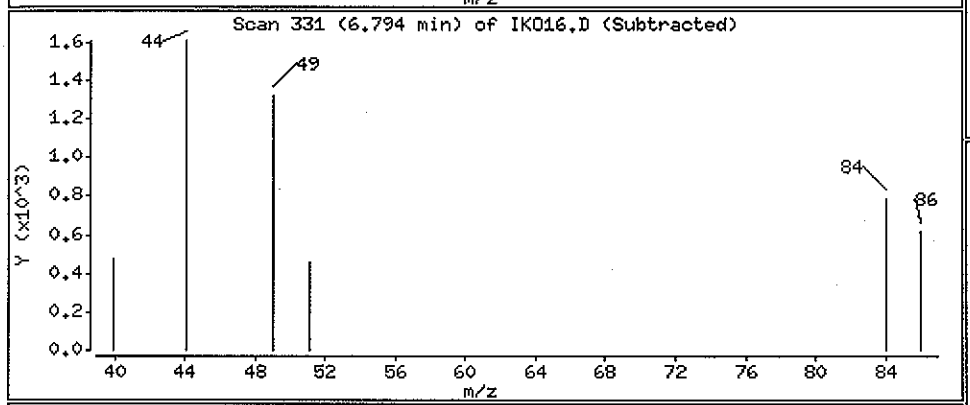
Sample Info: S,176248-006

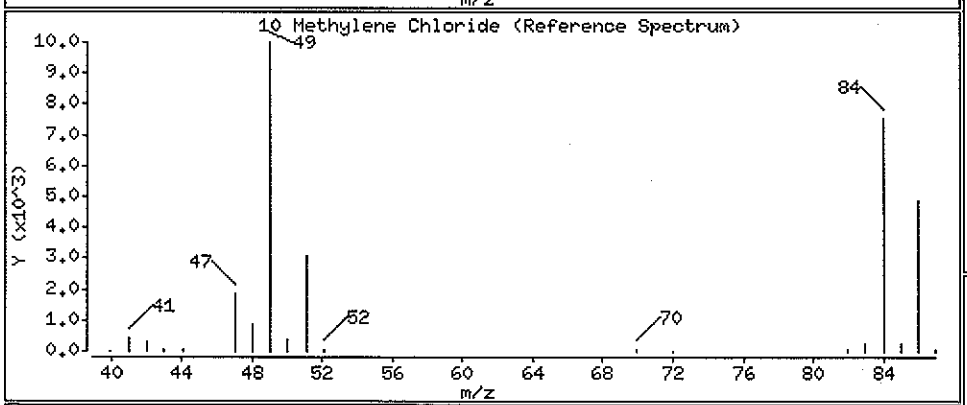
Purge Volume: 5.0 | Operator: BO

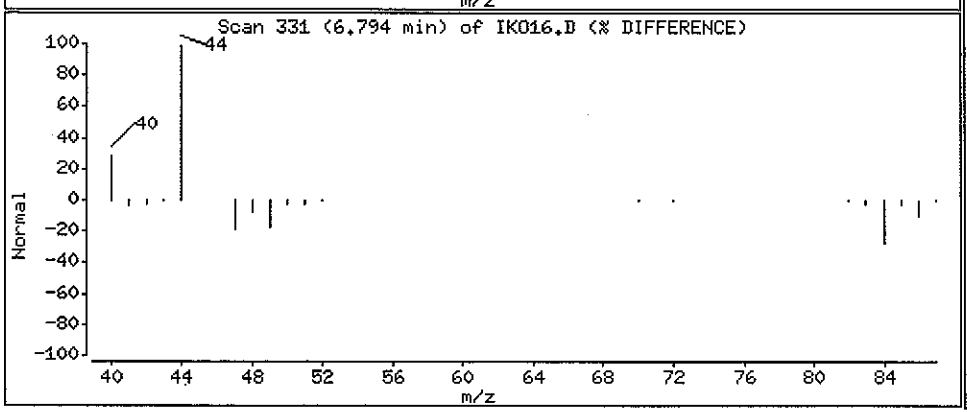
Column phase: RTx Volatiles | Column diameter: 0.32

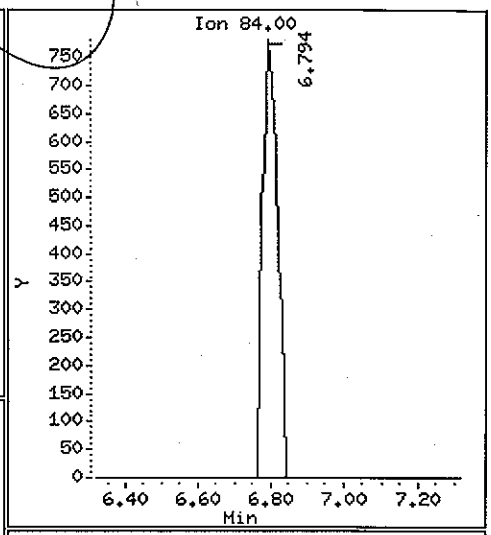
10 Methylene Chloride | Concentration: 0.2514 UG/L

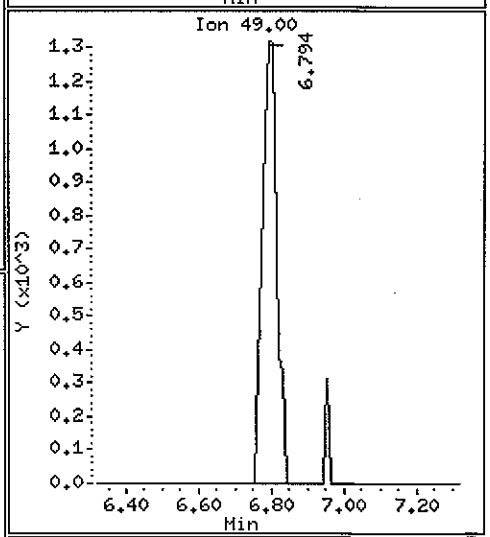


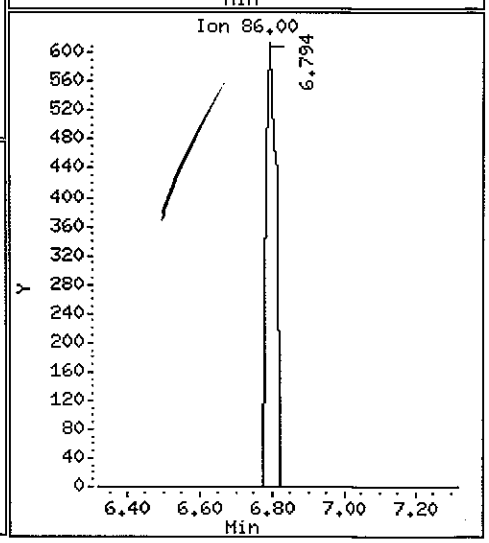












Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK016.D

Date : 24-NOV-2004 16:50

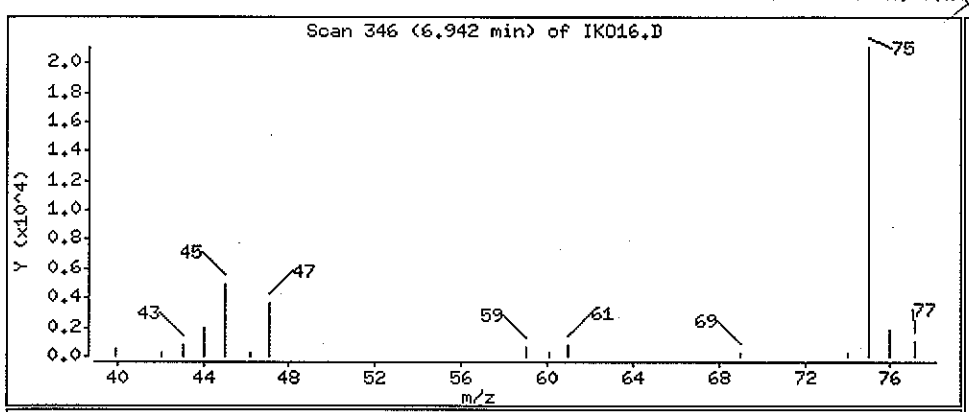
Client ID: DYNA P&T | Instrument: MSVOA09.i

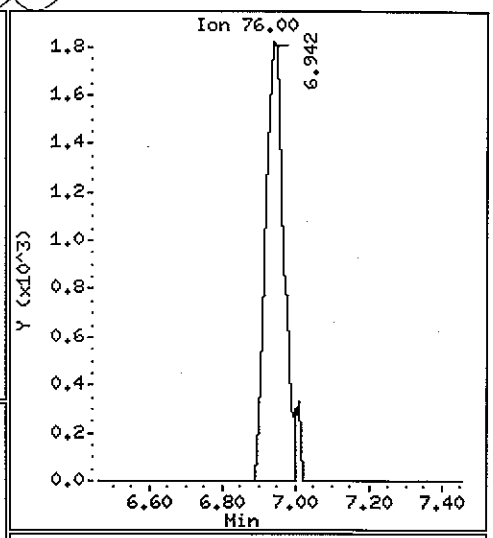
Sample Info: S,176248-006

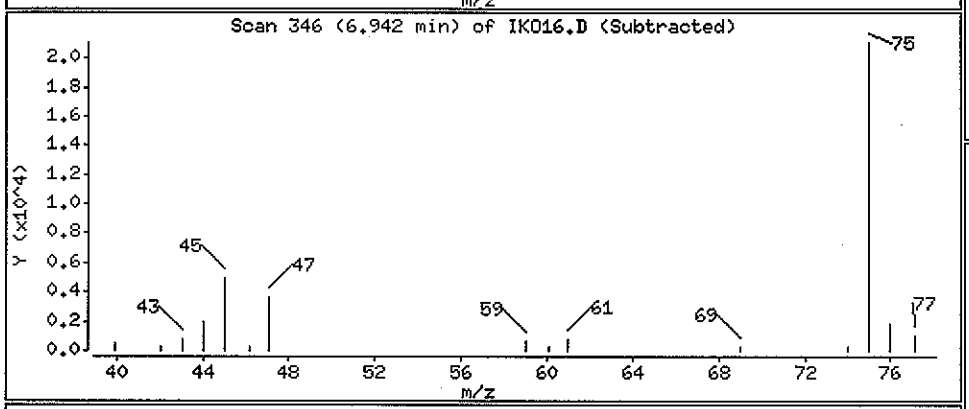
Purge Volume: 5.0 | Operator: BO

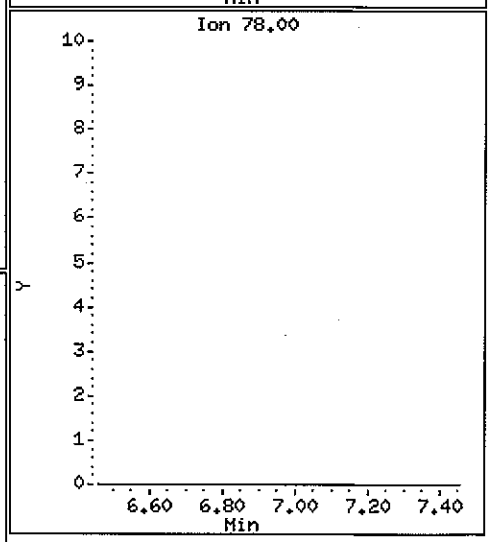
Column phase: RTx Volatiles | Column diameter: 0.32

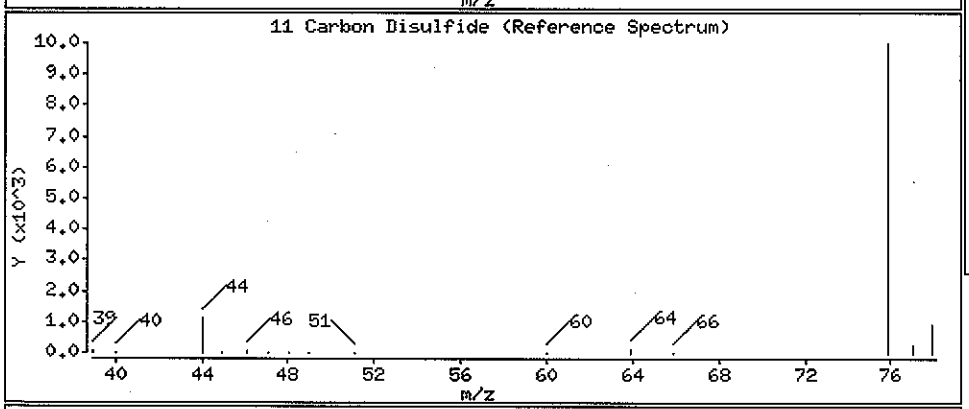
11 Carbon Disulfide | Concentration: 0.2417 UG/L

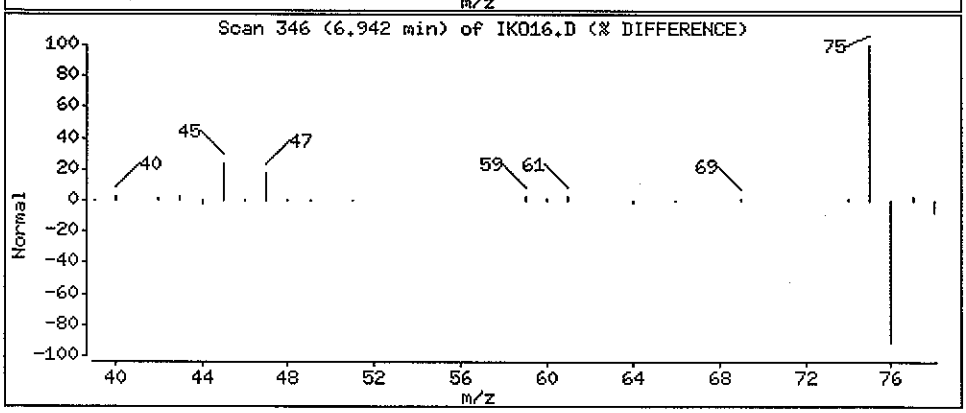












Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK016.D

Date : 24-NOV-2004 16:50

Client ID: DYNA P&T

Instrument: MSVOA09.i

Sample Info: S,176248-006

Purge Volume: 5.0

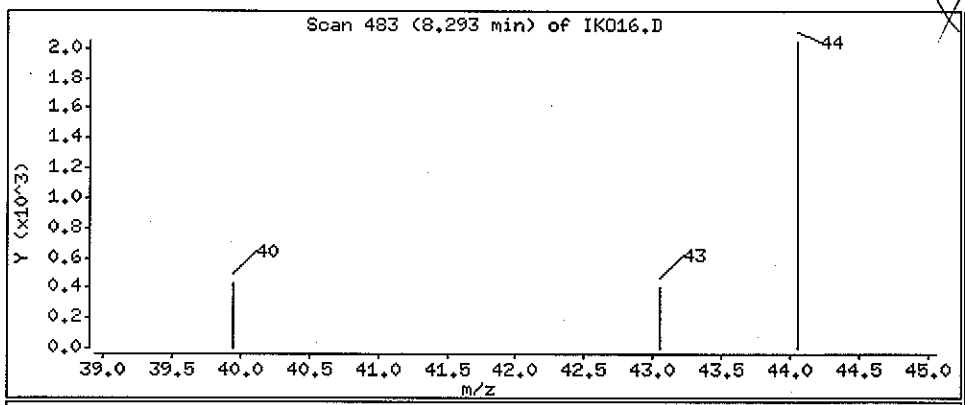
Operator: BO

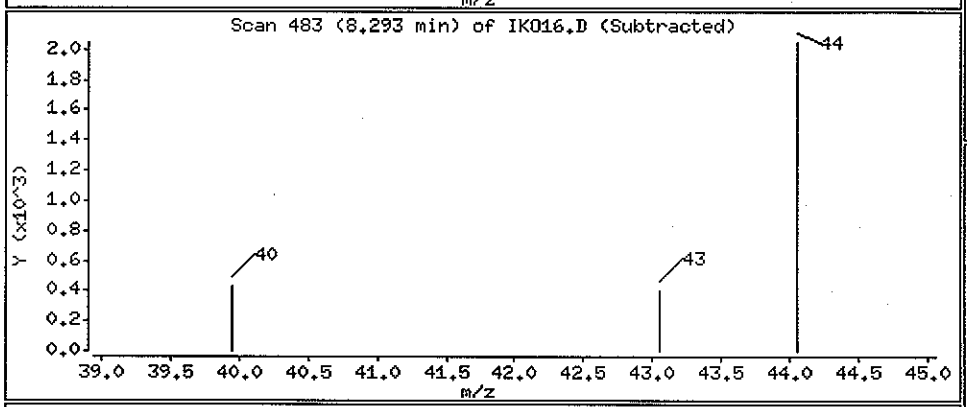
Column phase: RTx Volatiles

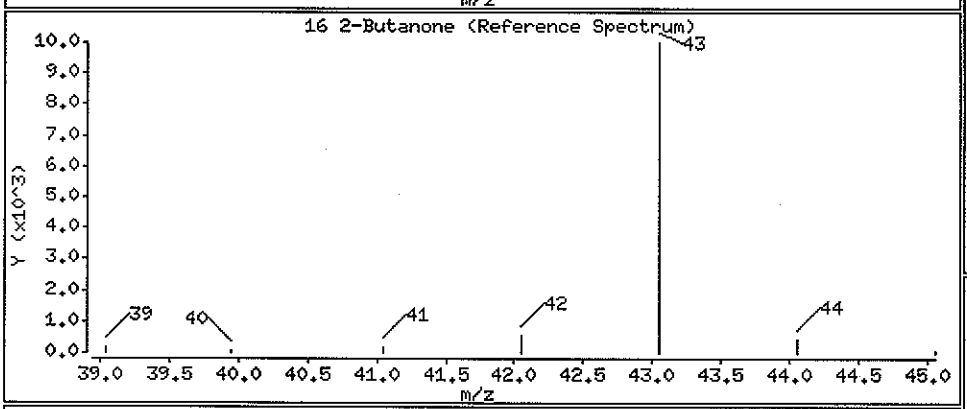
Column diameter: 0.32

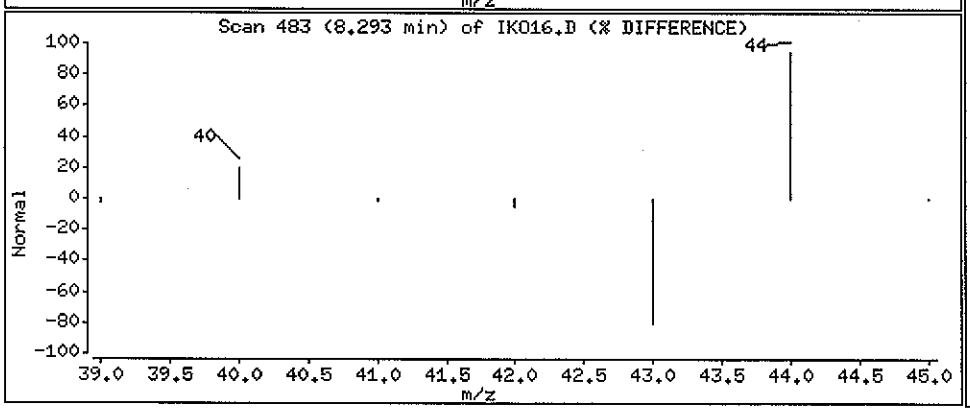
16 2-Butanone

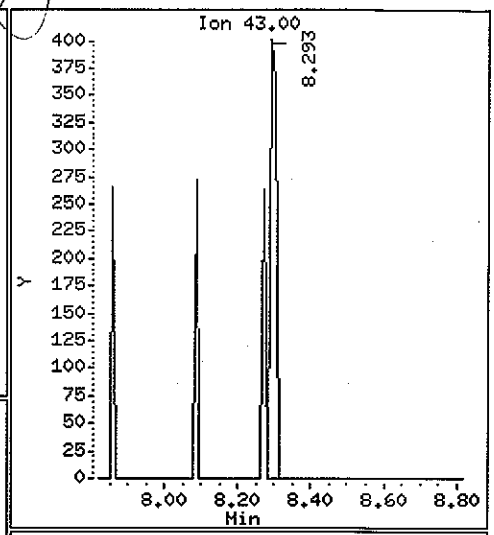
Concentration: 0.1225 UG/L

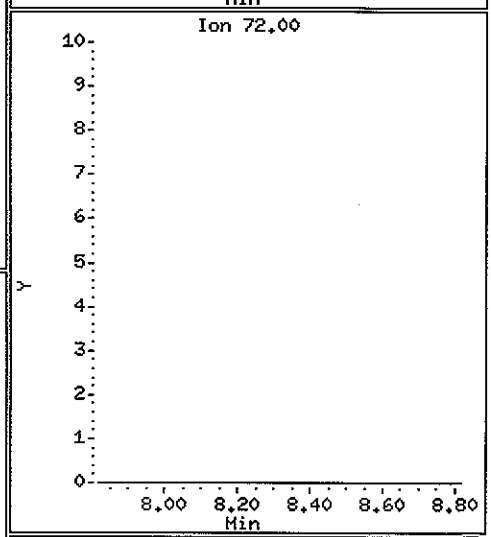


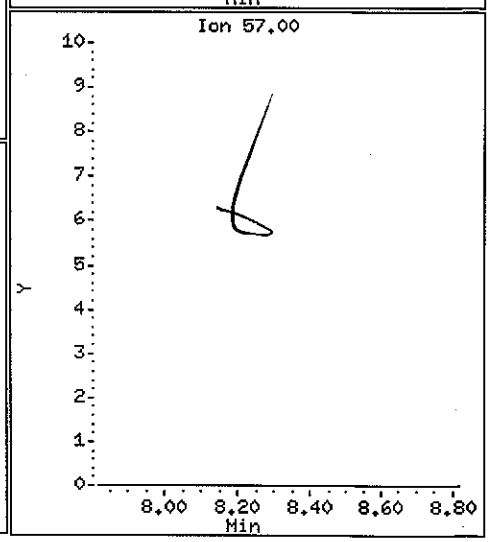












QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Samplenum:	QC273798	Cident	:
Seqnum	: 484474272009	Matrix	: Water	Acctnum	: QC
Filename	: iko09	Batchnum	: 96868	Injected	: 24-NOV-2004 12:45
IDF	: 1.0	PDF	: 1.0		
Calnum	: 484470109001	Caldate	: 21-NOV-2004	Caltype	: WATER

Analyte	Result	RTS	RL	Units	Flags
1,1-Dichloroethene	ND		0.50	ug/L	u
Benzene	ND		0.50	ug/L	u
Trichloroethene	ND		0.50	ug/L	u
Toluene	ND		0.50	ug/L	u
Chlorobenzene	ND		0.50	ug/L	u
Freon 12	ND		1.0	ug/L	u v-
Chloromethane	ND		1.0	ug/L	!v- u
Vinyl Chloride	ND		0.50	ug/L	u
Bromomethane	0.76 J		1.0	ug/L	B m u
Chloroethane	ND		1.0	ug/L	u
Trichlorofluoromethane	ND		1.0	ug/L	u
Acetone	~~0.37 J~~ No Bact m		5.0	ug/L	u
Freon 113	~~ND~~		0.50	ug/L	u
Methylene Chloride	ND		1.0	ug/L	u
MTBE	ND		0.50	ug/L	u
Carbon Disulfide	ND		0.50	ug/L	!v- u
trans-1,2-Dichloroethene	ND		0.50	ug/L	u
Vinyl Acetate	ND		10	ug/L	u
1,1-Dichloroethane	ND		0.50	ug/L	u
2-Butanone	ND		5.0	ug/L	u
cis-1,2-Dichloroethene	ND		0.50	ug/L	u
2,2-Dichloropropane	ND		0.50	ug/L	u
Chloroform	ND		0.50	ug/L	u
Bromochloromethane	ND		0.50	ug/L	u
1,1,1-Trichloroethane	ND		0.50	ug/L	u
1,1-Dichloropropene	ND		0.50	ug/L	u
Carbon Tetrachloride	ND		0.50	ug/L	u
1,2-Dichloroethane	ND		0.50	ug/L	u
1,2-Dichloropropane	ND		0.50	ug/L	u
Bromodichloromethane	ND		0.50	ug/L	u
Dibromomethane	ND		0.50	ug/L	u
4-Methyl-2-Pentanone	ND		5.0	ug/L	u
cis-1,3-Dichloropropene	ND		0.50	ug/L	u
trans-1,3-Dichloropropene	ND		0.50	ug/L	u
1,1,2-Trichloroethane	ND		0.50	ug/L	u
2-Hexanone	ND		5.0	ug/L	u
1,3-Dichloropropane	ND		0.50	ug/L	u
Tetrachloroethene	ND		0.50	ug/L	u
Dibromochloromethane	ND		0.50	ug/L	u
1,2-Dibromoethane	ND		0.50	ug/L	u
2-Chloroethylvinylether	ND		1.0	ug/L	u v-
1,1,1,2-Tetrachloroethane	ND		0.50	ug/L	u
Ethylbenzene	ND		0.50	ug/L	u
m,p-Xylenes	ND		0.50	ug/L	u
o-Xylene	ND		0.50	ug/L	u

!=warning -=low bias B=method blank contamination m=manual integration u=use v=ICV

11/29/04

11/24/04

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Samplenum:	QC273798	Cident	:
Seqnum	: 484474272009	Matrix	: Water	Acctnum	: QC
Filename	: iko09	Batchnum	: 96868	Injected	: 24-NOV-2004 12:45
IDF	: 1.0	PDF	: 1.0		
Calnum	: 484470109001	Caldate	: 21-NOV-2004	Caltype	: WATER

Analyte	Result	RTS	RL	Units	Flags
Styrene	ND		0.50	ug/L	u
Bromoform	ND		0.50	ug/L	u
Isopropylbenzene	ND		0.50	ug/L	u
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L	u
1,2,3-Trichloropropane	ND		0.50	ug/L	u
Propylbenzene	ND		0.50	ug/L	u
Bromobenzene	ND		0.50	ug/L	u
1,3,5-Trimethylbenzene	ND		0.50	ug/L	u
2-Chlorotoluene	ND		0.50	ug/L	u
4-Chlorotoluene	ND		0.50	ug/L	u
tert-Butylbenzene	ND		0.50	ug/L	u
1,2,4-Trimethylbenzene	ND		0.50	ug/L	u
sec-Butylbenzene	ND		0.50	ug/L	u
para-Isopropyl Toluene	ND		0.50	ug/L	u
1,3-Dichlorobenzene	ND		0.50	ug/L	u
1,4-Dichlorobenzene	ND		0.50	ug/L	u
n-Butylbenzene	ND		0.50	ug/L	u
1,2-Dichlorobenzene	ND		0.50	ug/L	u
1,2-Dibromo-3-Chloropropane	ND		0.50	ug/L	u
1,2,4-Trichlorobenzene	ND		0.50	ug/L	u
Hexachlorobutadiene	ND		0.50	ug/L	u
Naphthalene	ND		0.50	ug/L	u
1,2,3-Trichlorobenzene	ND		0.50	ug/L	u
Tetramethyl THF	ND		0.50	ug/L	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Units	Flags
Dibromofluoromethane	50.00	49.29	99	80-120	ug/L	u
1,2-Dichloroethane-d4	50.00	48.44	97	80-120	ug/L	u
Toluene-d8	50.00	48.49	97	80-120	ug/L	u
Bromofluorobenzene	50.00	53.87	108	80-122	ug/L	u
Trifluorotoluene	NS	ND	--		ug/ml	

ISTD (ICAL=ik111)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	983794	-0.90	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1517129	1.94	10.46	10.43	-0.03
Chlorobenzene-d5	1198447	1113447	-7.09	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	479479	-15.61	19.69	19.66	-0.03

!=warning -=low bias B=method blank contamination m=manual integration u=use v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\112404.b\IKO09.D
Report Date: 24-Nov-2004 14:03

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA09.i\112404.b\IKO09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 12:45 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : MB,QC273798
Misc Info : 96868,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\I9M826W.m
Meth Date : 24-Nov-2004 12:36 tapsvc Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	4.869	4.883	(0.541)	2955	0.75960	0.7596(M)
7 Acetone	43	5.905	5.928	(0.656)	968	0.37270	0.3727(a)
10 Methylene Chloride	84	6.793	6.816	(0.755)	1760	0.17403	0.1740(a)
* 20 Pentafluorobenzene	168	9.002	9.025	(1.000)	983794	50.0000	
$ 22 Dibromofluoromethane	113	9.140	9.163	(1.015)	654288	49.2905	49.2905
$ 25 1,2-Dichloroethane-d4	65	9.830	9.854	(0.942)	542739	48.4351	48.4351
* 29 1,4-Difluorobenzene	114	10.432	10.465	(1.000)	1517129	50.0000	
$ 39 Toluene-d8	98	12.858	12.881	(1.233)	1399301	48.4890	48.4889
* 48 Chlorobenzene-d5	117	15.363	15.386	(1.000)	1113447	50.0000	
$ 58 Bromofluorobenzene	95	17.473	17.497	(0.889)	500188	53.8739	53.8739
* 70 1,4-Dichlorobenzene-d4	152	19.663	19.686	(1.000)	479479	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO09.D
Report Date: 24-Nov-2004 13:49

Curtis & Tompkins, Ltd.

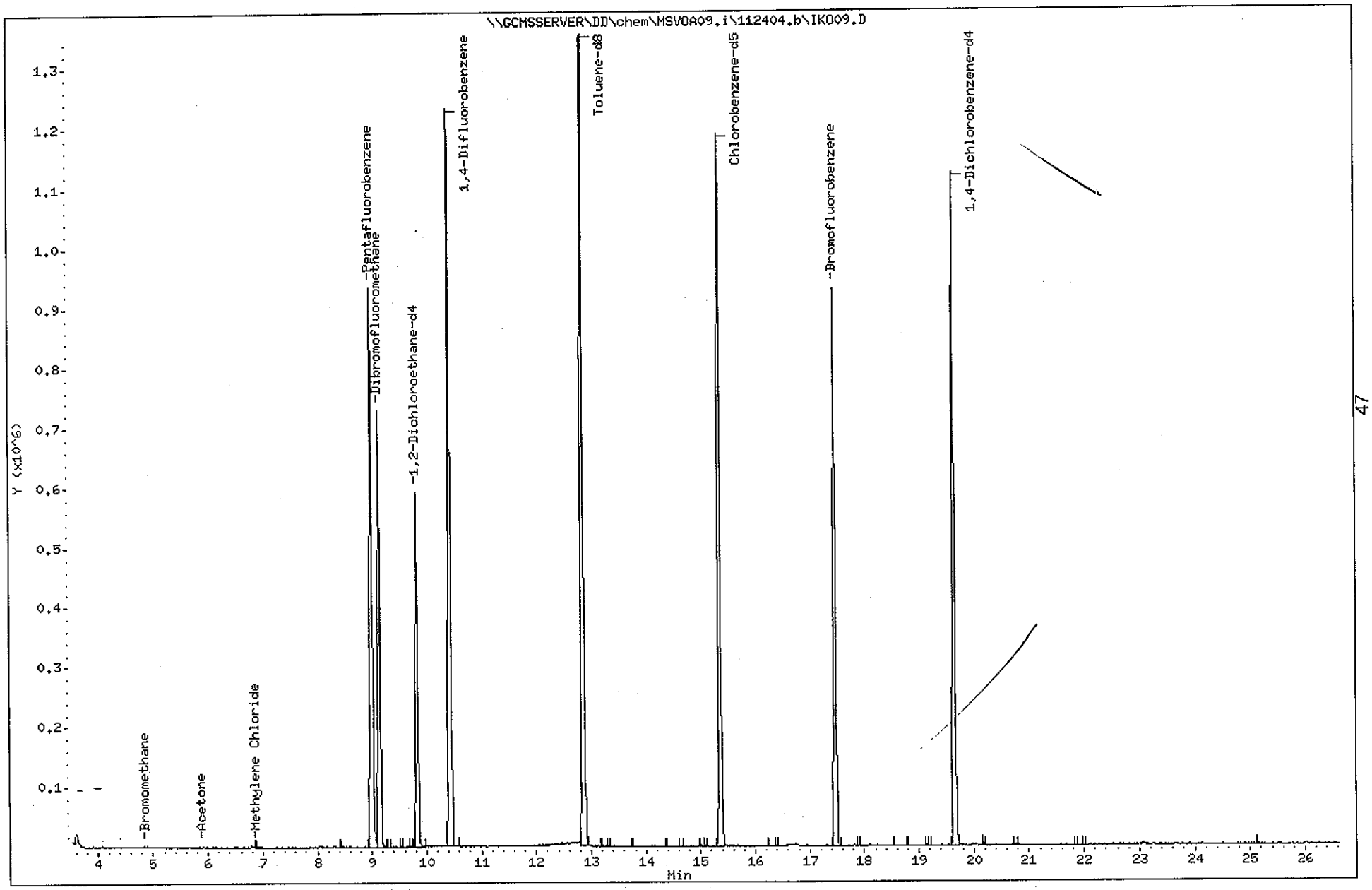
Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 12:45 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : MB,QC273798
Misc Info : 96868,1/1
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\I9M826W.m
Meth Date : 24-Nov-2004 12:36 tapsvc Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK009.D
Date : 24-NOV-2004 12:45
Client ID: DYNA P&T
Sample Info: MB,QC273798
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i

Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK009.D

Date : 24-NOV-2004 12:45

Client ID: DYNA P&T

Instrument: MSVOA09.i

Sample Info: MB,QC273798

Purge Volume: 5.0

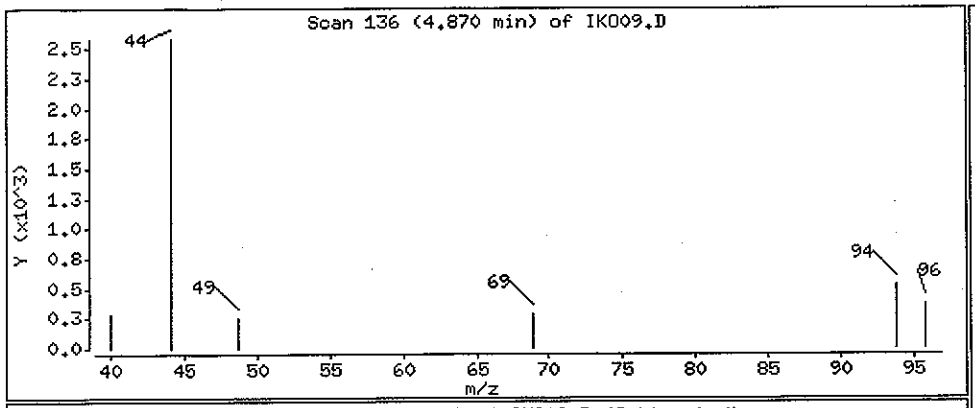
Operator: BO

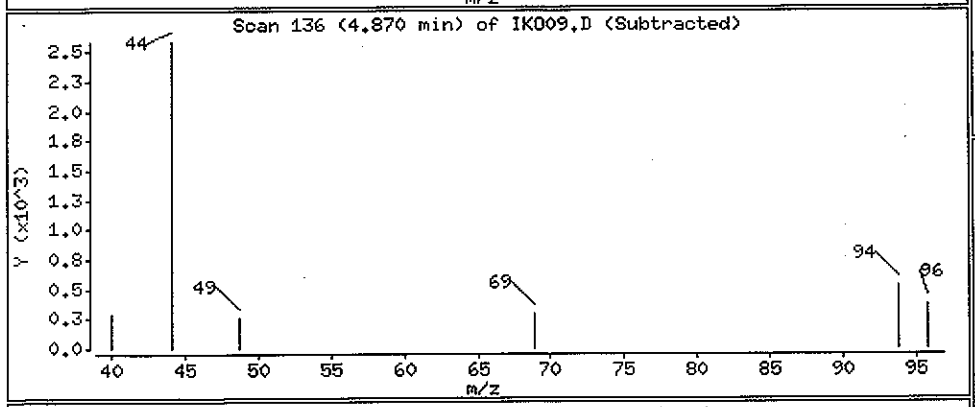
Column phase: RTx Volatiles

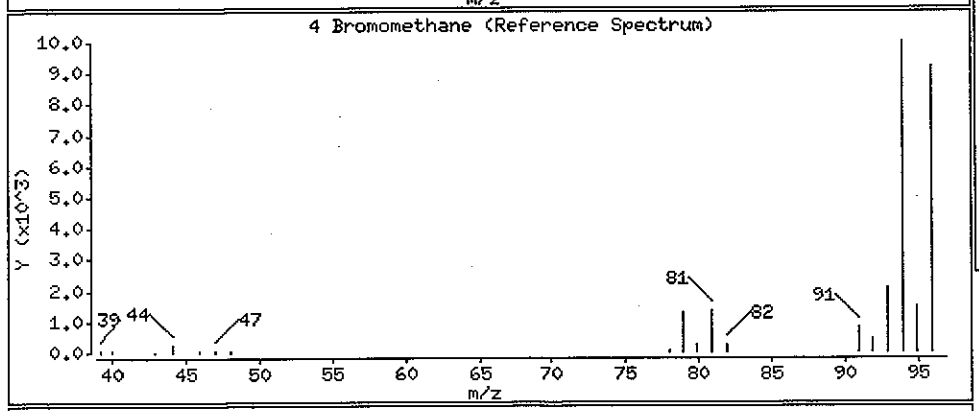
Column diameter: 0.32

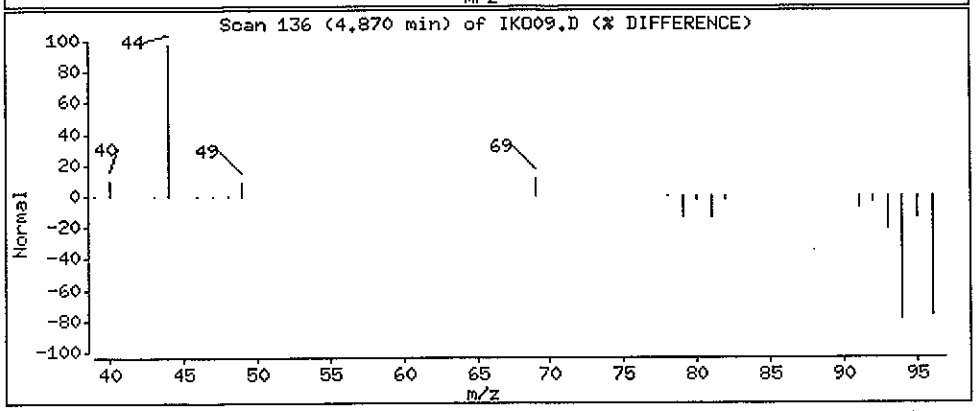
4 Bromomethane

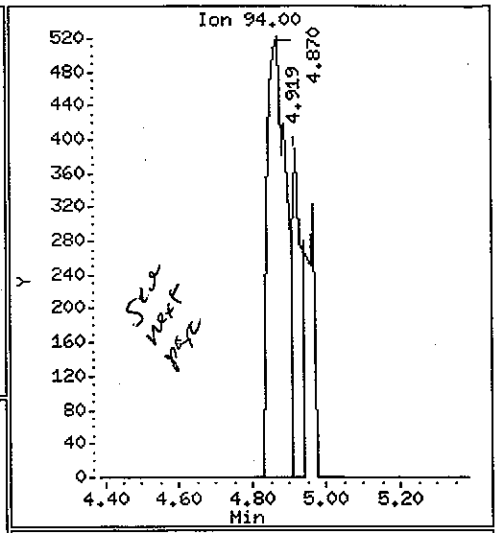
Concentration: 0.4910 UG/L

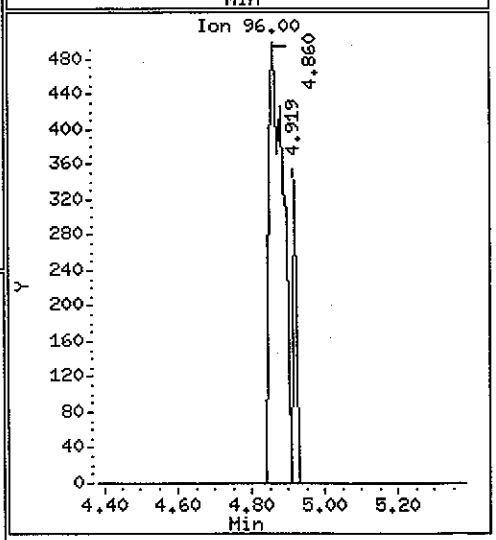












Data File: \\Gcmsserver\DD\chem\MSVOA09.i\112404.b\IK009.D

Date : 24-NOV-2004 12:45

Client ID: DYNA P&T

Instrument: MSVOA09.i

Sample Info: MB,QC273798

Purge Volume: 5.0

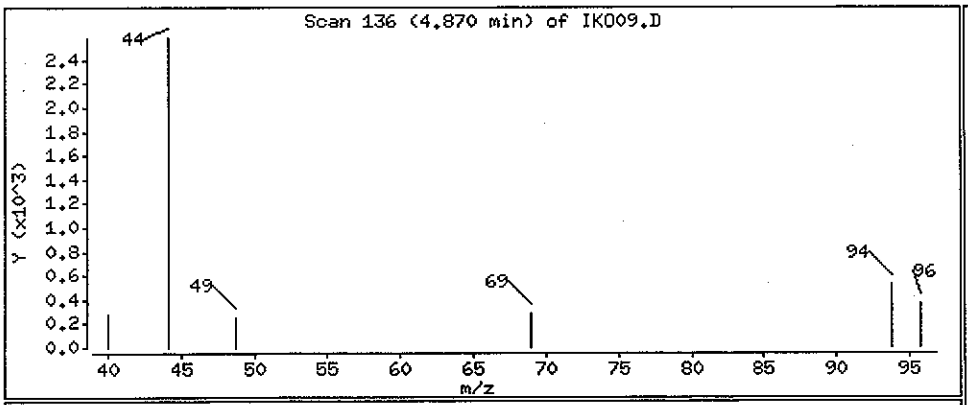
Operator: BO

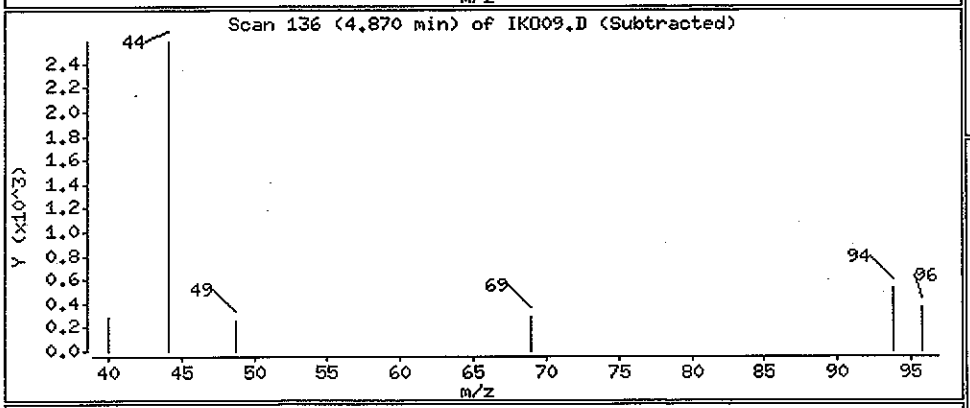
Column phase: RTx Volatiles

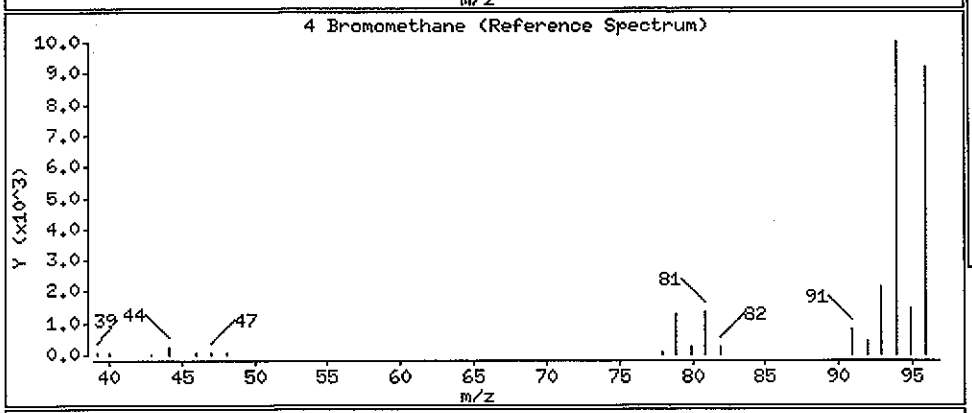
Column diameter: 0.32

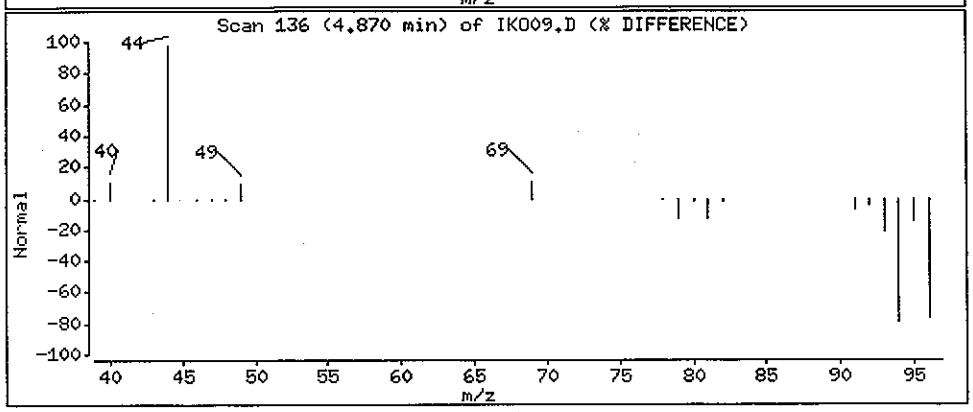
4 Bromomethane

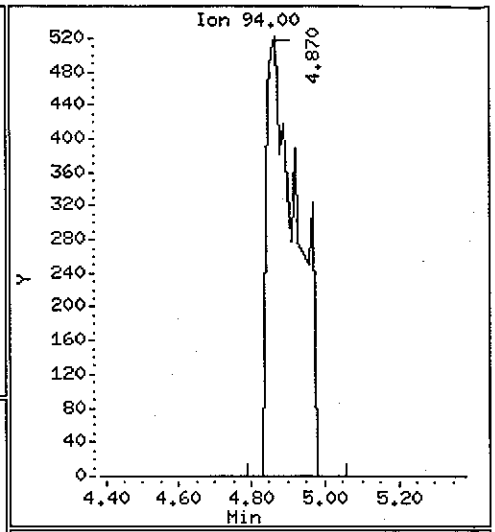
Concentration: 0.7596 UG/L

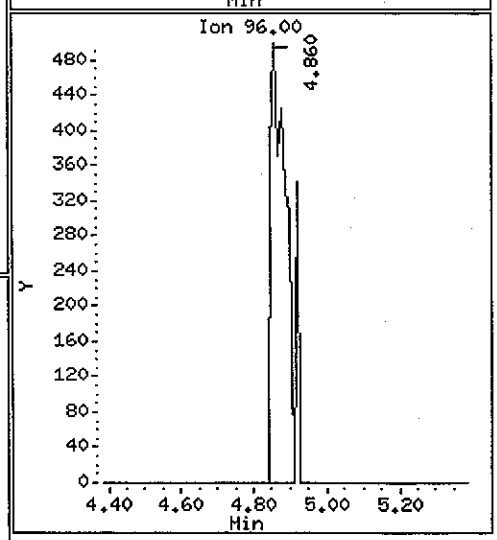












Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK009.D

Date : 24-NOV-2004 12:45

Client ID: DYNA P&T

Instrument: MSVOA09.i

Sample Info: MB,QC273798

Purge Volume: 5.0

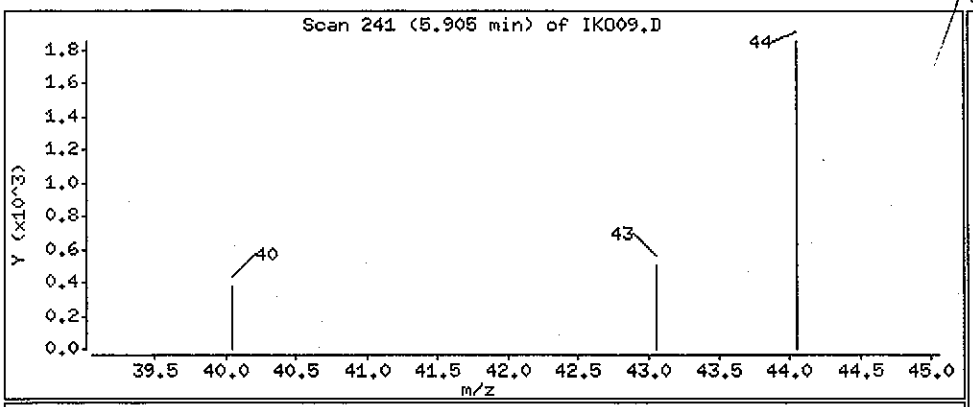
Operator: BO

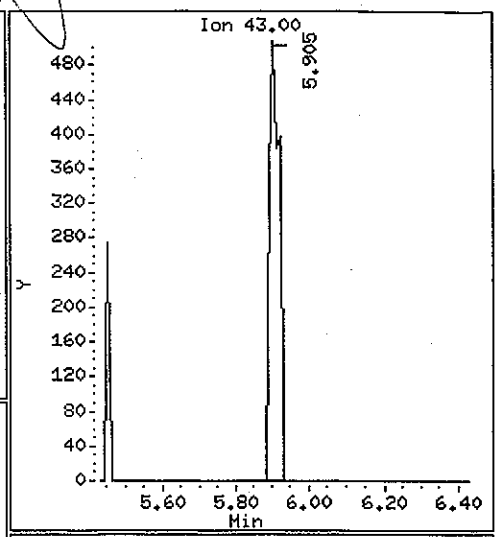
Column phase: RTx Volatiles

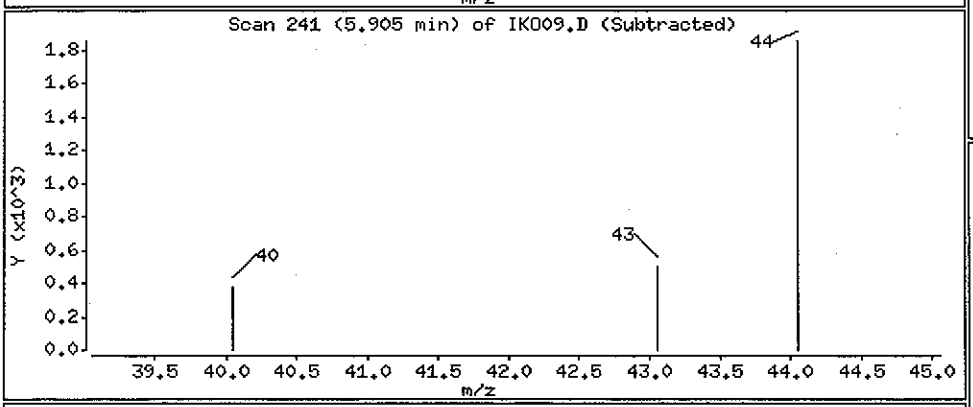
Column diameter: 0.32

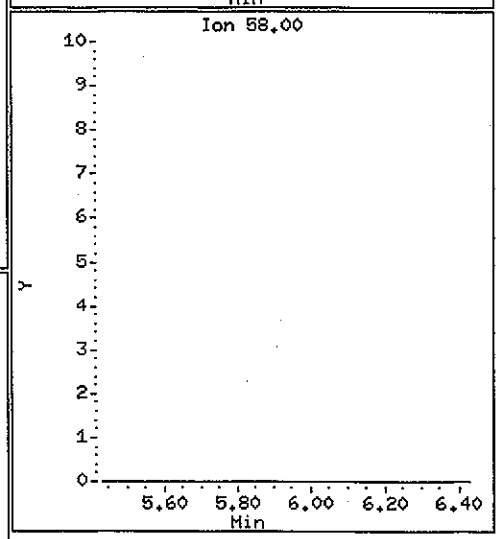
7 Acetone

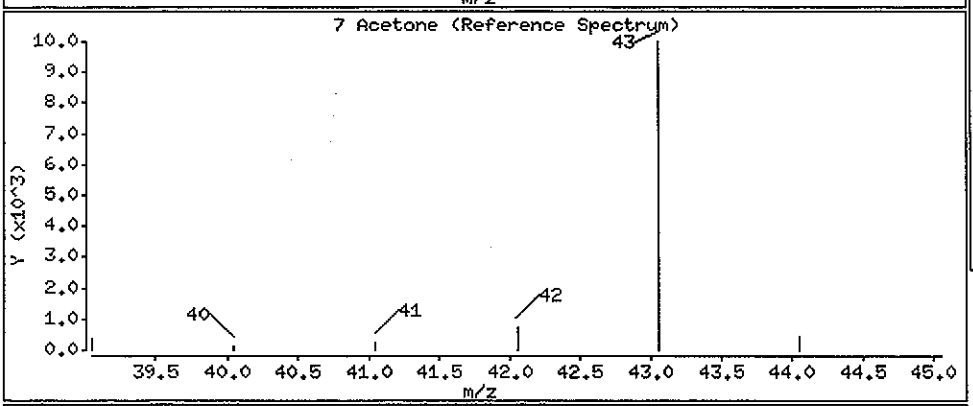
Concentration: 0.3727 UG/L

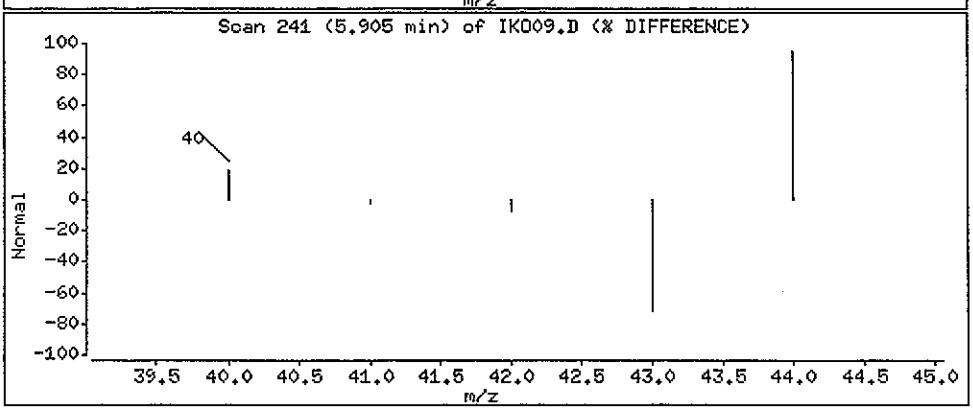












Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK009.D

Date : 24-NOV-2004 12:45

Client ID: DYNA P&T

Instrument: MSVOA09.i

Sample Info: MB,QC273798

Purge Volume: 5.0

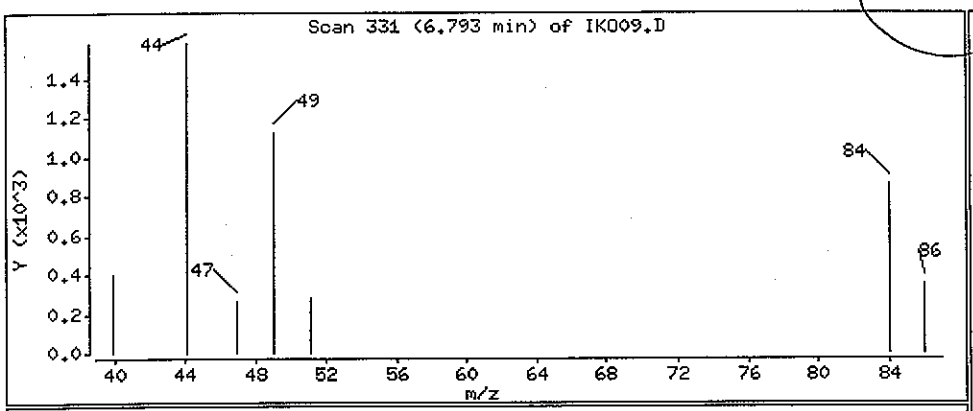
Operator: BO

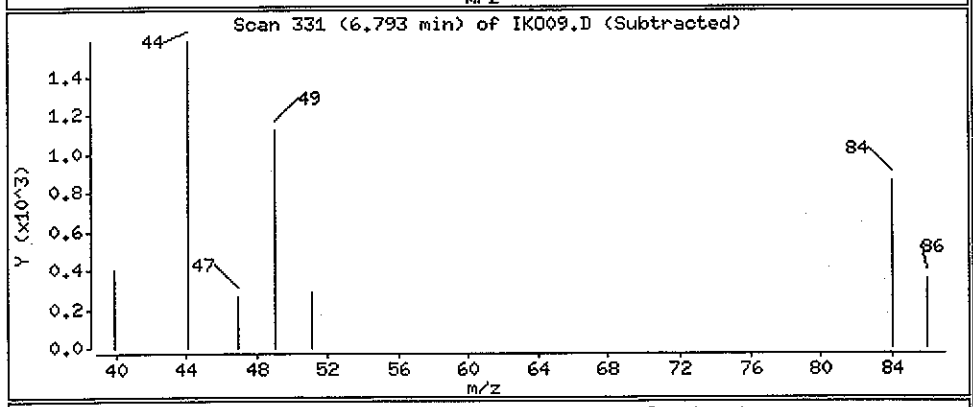
Column phase: RTx Volatiles

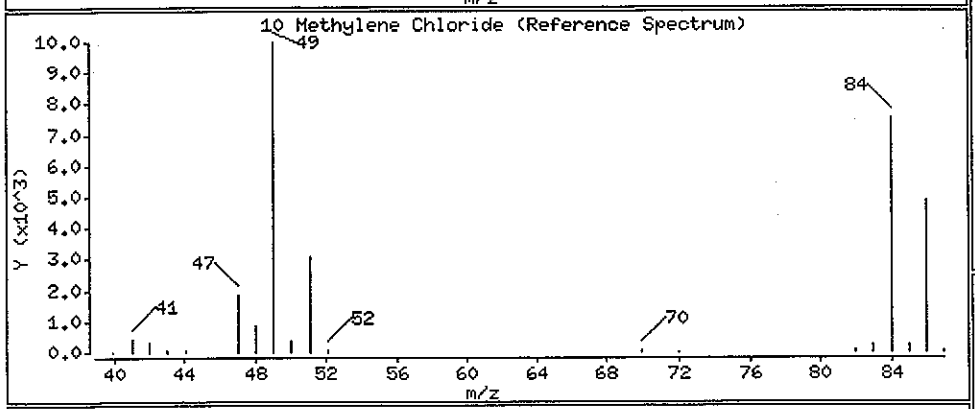
Column diameter: 0.32

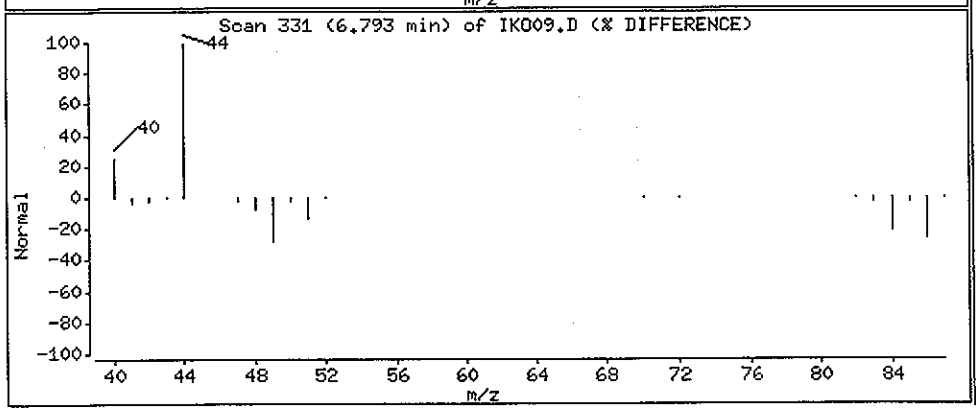
10 Methylene Chloride

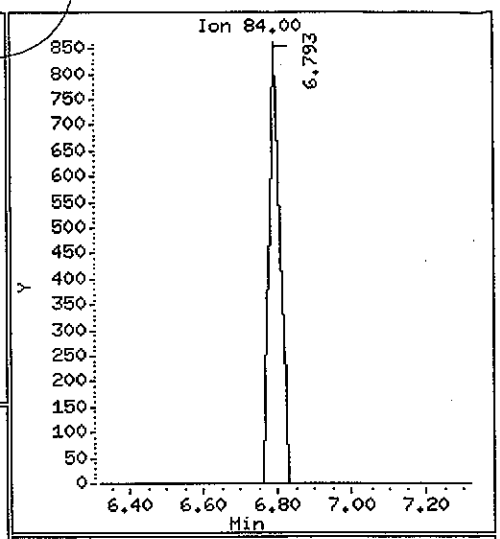
Concentration: 0.1741 UG/L

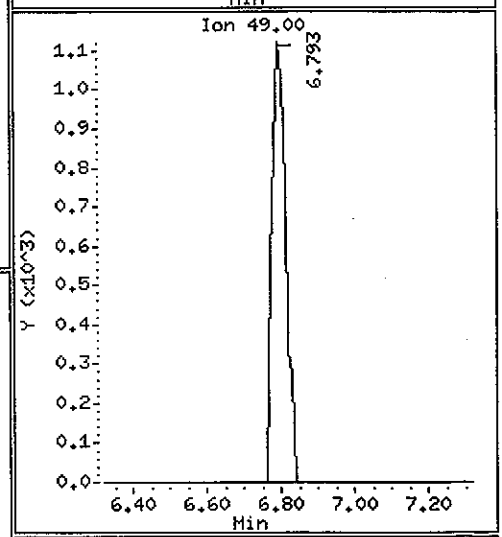


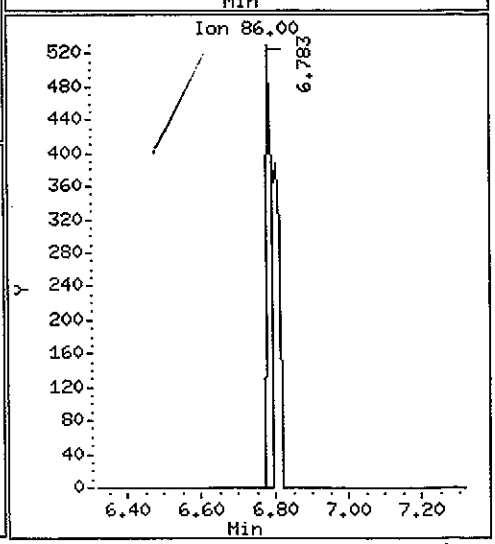












SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Instid	: MSVOA09
Seqnum	: 484474272006	Seqnum	: 484474272007
Filename	: iko06	Filename	: iko07
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: CCV/BS	Run type	: BSD
Samplenum	: QC273796	Samplenum	: QC273797
Matrix	: Water	Matrix	: Water
Batchnum	: 96868	Batchnum	: 96868
Inj	: 24-NOV-2004 10:58	Inj	: 24-NOV-2004 11:32
Caltype	: WATER	Caltype	: WATER

Analyte	Spike Conc	CCV/BS	%Rec	BSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,1-Dichloroethene	50.00	42.67	85	44.64	89	75-120	ug/L	5	20	
Benzene	50.00	44.26	89	46.21	92	79-120	ug/L	4	20	
Trichloroethene	50.00	42.05	84	45.26	91	79-120	ug/L	7	20	
Toluene	50.00	41.98	84	46.19	92	80-120	ug/L	10	20	
Chlorobenzene	50.00	49.22	98	49.29	99	80-120	ug/L	0	20	
Freon 12	50.00	58.53	117	54.26	109	43-120	ug/L	8	21	v- b*
Chloromethane	50.00	44.03	88	43.44	87	53-120	ug/L	1	21	!v-
Vinyl Chloride	50.00	41.47	83	44.94	90	58-120	ug/L	8	22	
Bromomethane	50.00	59.72	119	60.84	122	51-148	ug/L	2	27	
Chloroethane	50.00	46.50	93	45.41	91	65-120	ug/L	2	20	
Trichlorofluoromethane	50.00	49.33	99	44.52	89	73-126	ug/L	10	20	
Acetone	50.00	54.46	109	53.03	106	53-149	ug/L	3	29	
Freon 113	50.00	45.98	92	42.99	86	75-129	ug/L	7	20	
Methylene Chloride	50.00	44.53	89	42.29	85	75-120	ug/L	5	20	
MTBE	50.00	40.29	81	41.09	82	74-128	ug/L	2	20	
Carbon Disulfide	50.00	42.58	85	44.95	90	71-121	ug/L	5	20	!v-
trans-1,2-Dichloroethene	50.00	43.63	87	43.93	88	76-120	ug/L	1	20	
Vinyl Acetate	50.00	46.11	92	49.01	98	48-120	ug/L	6	20	
1,1-Dichloroethane	50.00	41.79	84	42.64	85	74-120	ug/L	2	20	
2-Butanone	50.00	48.31	97	47.69	95	66-133	ug/L	1	20	
cis-1,2-Dichloroethene	50.00	42.71	85	42.51	85	78-121	ug/L	0	20	
2,2-Dichloropropane	50.00	43.66	87	42.55	85	70-145	ug/L	3	20	
Chloroform	50.00	41.69	83	41.21	82	76-120	ug/L	1	20	
Bromochloromethane	50.00	42.25	85	44.22	88	77-120	ug/L	5	20	
1,1,1-Trichloroethane	50.00	44.39	89	42.27	85	77-124	ug/L	5	20	
1,1-Dichloropropene	50.00	45.82	92	45.91	92	79-120	ug/L	0	20	
Carbon Tetrachloride	50.00	44.70	89	43.89	88	78-128	ug/L	2	20	
1,2-Dichloroethane	50.00	45.81	92	45.62	91	76-120	ug/L	0	20	
1,2-Dichloropropane	50.00	47.39	95	50.10	100	75-120	ug/L	6	20	
Bromodichloromethane	50.00	41.83	84	44.31	89	80-130	ug/L	6	20	
Dibromomethane	50.00	45.58	91	46.03	92	80-120	ug/L	1	20	
4-Methyl-2-Pentanone	50.00	42.13	84	46.30	93	68-126	ug/L	9	20	
cis-1,3-Dichloropropene	50.00	46.45	93	46.88	94	80-125	ug/L	1	20	
trans-1,3-Dichloropropene	50.00	45.90	92	45.99	92	78-121	ug/L	0	20	
1,1,2-Trichloroethane	50.00	43.56	87	44.76	90	80-120	ug/L	3	20	
2-Hexanone	50.00	55.15	110	52.68	105	70-131	ug/L	5	21	
1,3-Dichloropropane	50.00	51.64	103	51.34	103	79-120	ug/L	1	20	
Tetrachloroethene	50.00	50.55	101	50.74	101	80-125	ug/L	0	20	
Dibromochloromethane	50.00	47.34	95	49.60	99	80-121	ug/L	5	20	

!=warning -=low bias b=noncompliant v=ICV

11/29/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Instid	: MSVOA09
Seqnum	: 484474272006	Seqnum	: 484474272007
Filename	: iko06	Filename	: iko07
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: CCV/BS	Run type	: BSD
Samplenum	: QC273796	Samplenum	: QC273797
Matrix	: Water	Matrix	: Water
Batchnum	: 96868	Batchnum	: 96868
Inj	: 24-NOV-2004 10:58	Inj	: 24-NOV-2004 11:32
Caltype	: WATER	Caltype	: WATER

Analyte	Spike Conc	CCV/BS	%Rec	BSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,2-Dibromoethane	50.00	41.46	83	45.41	91	77-120	ug/L	9	20	
1,1,1,2-Tetrachloroethane	50.00	48.93	98	47.31	95	80-120	ug/L	3	20	
Ethylbenzene	50.00	45.61	91	46.99	94	80-121	ug/L	3	20	
m,p-Xylenes	100.0	93.89	94	91.10	91	80-120	ug/L	3	20	
o-Xylene	50.00	46.81	94	50.76	102	80-120	ug/L	8	20	
Styrene	50.00	48.37	97	52.55	105	80-125	ug/L	8	20	
Bromoform	50.00	49.48	99	49.07	98	77-126	ug/L	1	20	
Isopropylbenzene	50.00	47.73	95	56.56	113	73-120	ug/L	17	20	
1,1,2,2-Tetrachloroethane	50.00	50.90	102	53.23	106	74-120	ug/L	4	20	
1,2,3-Trichloropropane	50.00	50.81	102	54.15	108	73-120	ug/L	6	20	
Propylbenzene	50.00	52.81	106	53.62	107	79-123	ug/L	2	20	
Bromobenzene	50.00	48.19	96	48.87	98	80-120	ug/L	1	20	
1,3,5-Trimethylbenzene	50.00	53.83	108	51.58	103	79-124	ug/L	4	20	
2-Chlorotoluene	50.00	52.18	104	51.17	102	79-120	ug/L	2	20	
4-Chlorotoluene	50.00	53.41	107	53.12	106	78-120	ug/L	1	20	
tert-Butylbenzene	50.00	49.53	99	55.17	110	80-124	ug/L	11	20	
1,2,4-Trimethylbenzene	50.00	51.71	103	55.29	111	80-128	ug/L	7	20	
sec-Butylbenzene	50.00	53.43	107	50.98	102	78-126	ug/L	5	20	
para-Isopropyl Toluene	50.00	50.56	101	51.35	103	75-124	ug/L	2	20	
1,3-Dichlorobenzene	50.00	49.59	99	52.77	106	80-120	ug/L	6	20	
1,4-Dichlorobenzene	50.00	47.69	95	50.36	101	80-120	ug/L	5	20	
n-Butylbenzene	50.00	53.73	107	52.07	104	70-137	ug/L	3	20	
1,2-Dichlorobenzene	50.00	48.99	98	53.42	107	80-120	ug/L	9	20	
1,2-Dibromo-3-Chloropropane	50.00	49.78	100	52.73	105	69-130	ug/L	6	20	
1,2,4-Trichlorobenzene	50.00	50.94	102	52.63	105	70-136	ug/L	3	20	
Hexachlorobutadiene	50.00	50.97	102	51.93	104	76-136	ug/L	2	20	
Naphthalene	50.00	48.04	96	50.76	102	59-153	ug/L	6	21	
1,2,3-Trichlorobenzene	50.00	51.01	102	53.28	107	70-139	ug/L	4	20	
Dibromofluoromethane	50.00	49.70	99	46.64	93	80-120	ug/L	--		
1,2-Dichloroethane-d4	50.00	47.93	96	50.94	102	80-120	ug/L	--		
Toluene-d8	50.00	47.89	96	49.63	99	80-120	ug/L	--		
Bromofluorobenzene	50.00	51.52	103	54.41	109	80-122	ug/L	--		
Trifluorotoluene	0.05000	0.04107	82	0.04291	86		ug/ml	--		

!=warning -=low bias b=noncompliant v=ICV

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Instid	: MSVOA09
Seqnum	: 484474272006	Seqnum	: 484474272007
Filename	: iko06	Filename	: iko07
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: CCV/BS	Run type	: BSD
Samplenum	: QC273796	Samplenum	: QC273797
Matrix	: Water	Matrix	: Water
Batchnum	: 96868	Batchnum	: 96868
Inj	: 24-NOV-2004 10:58	Inj	: 24-NOV-2004 11:32
Caltype	: WATER	Caltype	: WATER

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	960388	-3.26	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1462120	-1.76	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1044881	-12.81	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	487985	-14.12	19.69	19.66	-0.03

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	984205	-0.86	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1442187	-3.10	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1065734	-11.07	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	472902	-16.77	19.69	19.66	-0.03

!=warning -=low bias b=noncompliant v=ICV
Page 3 of 3

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO06.D
Report Date: 24-Nov-2004 12:01

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO06.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 10:58 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : CCV,04SS408,0.010/100,04WS2167B,0.020/100,
Misc Info : 04WS2204A,0.005/100,50PPB
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\I9M826W.m
Meth Date : 24-Nov-2004 12:01 tapsvc Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.660	3.680	(0.407)	456564	50.0000	58.5346
2 Chloromethane	50	4.025	4.065	(0.447)	410831	50.0000	44.0345
3 Vinyl Chloride	62	4.212	4.232	(0.468)	238260	50.0000	41.4715
4 Bromomethane	94	4.853	4.883	(0.540)	226797	50.0000	59.7207
5 Chloroethane	64	4.971	5.002	(0.553)	187375	50.0000	46.5024
6 Trichlorofluoromethane	101	5.396	5.416	(0.600)	540852	50.0000	49.3297
7 Acetone	43	5.899	5.929	(0.656)	138077	50.0000	54.4585
8 Freon 113	101	6.037	6.057	(0.671)	308181	50.0000	45.9817
9 1,1-Dichloroethene	96	6.224	6.244	(0.692)	302793	50.0000	42.6721
10 Methylene Chloride	84	6.786	6.816	(0.754)	439589	50.0000	44.5260
11 Carbon Disulfide	76	6.924	6.955	(0.770)	1258099	50.0000	42.5794
12 MTBE	73	7.092	7.122	(0.788)	747277	50.0000	40.2943
13 trans-1,2-Dichloroethene	96	7.269	7.300	(0.808)	369239	50.0000	43.6332
14 Vinyl Acetate	43	7.733	7.763	(0.860)	807743	50.0000	46.1073
15 1,1-Dichloroethane	63	7.792	7.822	(0.866)	683176	50.0000	41.7866
16 2-Butanone	43	8.285	8.316	(0.921)	196334	50.0000	48.3079

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO06.D
Report Date: 24-Nov-2004 12:01

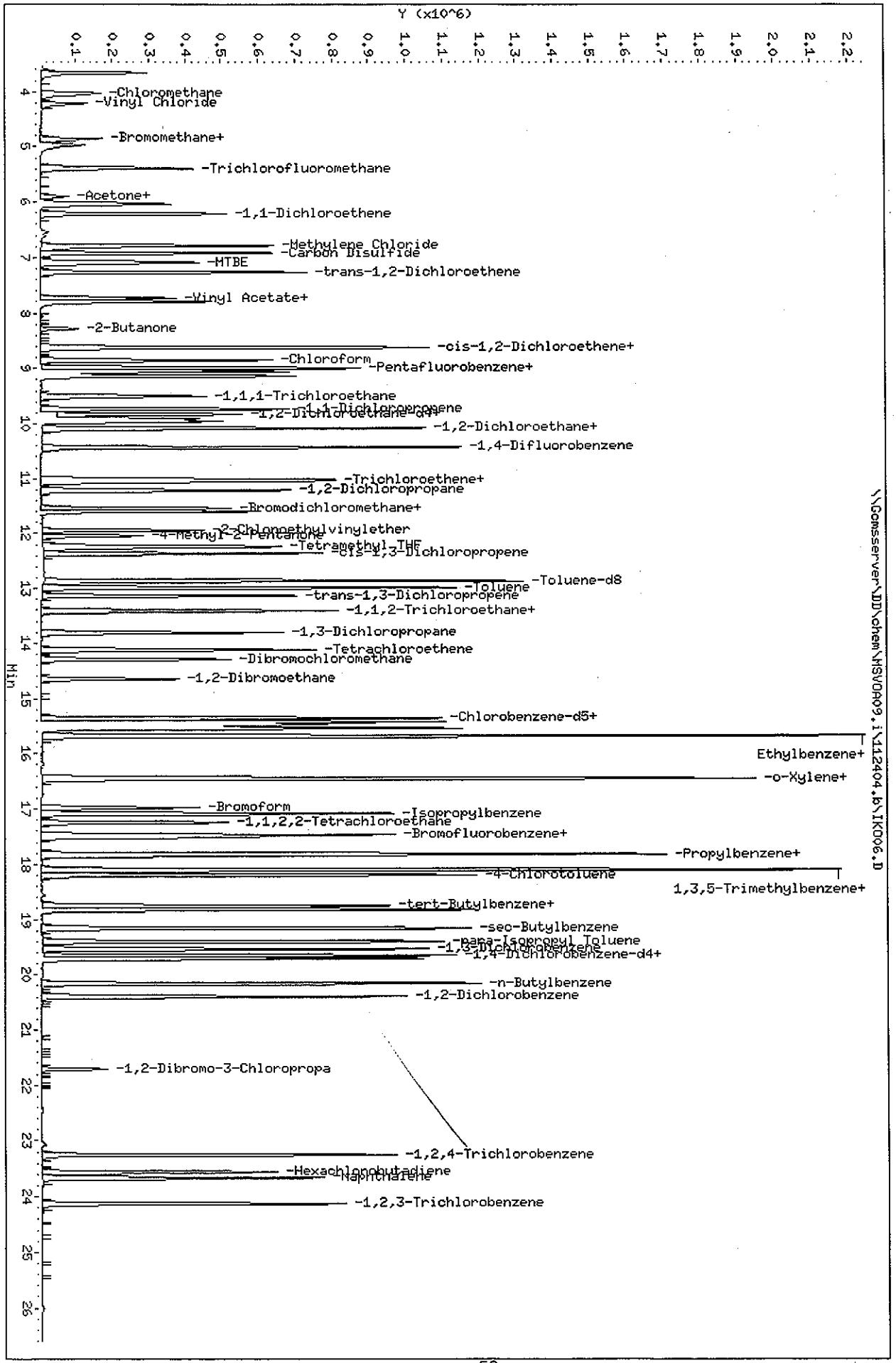
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.630	8.651	(0.959)	403862	50.0000	42.7112
	18 2,2-Dichloropropane	77	8.621	8.651	(0.958)	436409	50.0000	43.6621
	19 Chloroform	83	8.857	8.887	(0.985)	677857	50.0000	41.6913
*	20 Pentafluorobenzene	168	8.995	9.026	(1.000)	960388	50.0000	
	21 Bromochloromethane	128	9.055	9.085	(1.007)	245339	50.0000	42.2535
$	22 Dibromofluoromethane	113	9.133	9.164	(1.015)	643969	50.0000	49.6954
	23 1,1,1-Trichloroethane	97	9.498	9.529	(1.056)	455974	50.0000	44.3922
	24 1,1-Dichloropropene	75	9.735	9.765	(0.933)	483439	50.0000	45.8232
$	25 1,2-Dichloroethane-d4	65	9.834	9.854	(0.942)	517581	50.0000	47.9277
	26 Carbon Tetrachloride	117	9.912	9.943	(0.950)	414082	50.0000	44.7044
	27 1,2-Dichloroethane	62	9.962	9.992	(0.955)	477603	50.0000	45.8127
	28 Benzene	78	10.080	10.120	(0.966)	1373220	50.0000	44.2565
*	29 1,4-Difluorobenzene	114	10.435	10.465	(1.000)	1462120	50.0000	
	30 Trichloroethene	95	11.007	11.037	(1.055)	384137	50.0000	42.0464
$	31 Trifluorotoluene	146	11.057	11.077	(1.060)	445990	50.0000	41.0729
	32 1,2-Dichloropropane	63	11.214	11.235	(1.075)	453685	50.0000	47.3887
	33 Bromodichloromethane	83	11.540	11.570	(1.106)	488461	50.0000	41.8292
	34 Dibromomethane	93	11.599	11.629	(1.112)	354979	50.0000	45.5823
	35 2-Chloroethylvinylether	63	11.944	11.974	(1.145)	285191	50.0000	45.7016
	36 4-Methyl-2-Pentanone	43	12.043	12.063	(1.154)	361484	50.0000	42.1275
	37 Tetramethyl THF	43	12.240	12.270	(1.173)	811025	50.0000	46.5929
	38 cis-1,3-Dichloropropene	75	12.368	12.398	(1.185)	650644	50.0000	46.4548
$	39 Toluene-d8	98	12.861	12.882	(1.232)	1332025	50.0000	47.8942
	40 Toluene	92	12.990	13.010	(1.245)	748240	50.0000	41.9780
	41 trans-1,3-Dichloropropene	75	13.137	13.158	(1.259)	547458	50.0000	45.9008
	42 1,1,2-Trichloroethane	85	13.414	13.434	(1.285)	214526	50.0000	43.5611
	43 2-Hexanone	43	13.423	13.454	(0.874)	275842	50.0000	55.1495
	44 1,3-Dichloropropane	76	13.808	13.838	(0.899)	577003	50.0000	51.6442
	45 Tetrachloroethene	166	14.124	14.154	(0.920)	359196	50.0000	50.5453
	46 Dibromochloromethane	129	14.291	14.322	(0.931)	443277	50.0000	47.3377
	47 1,2-Dibromoethane	107	14.646	14.677	(1.404)	410189	50.0000	41.4584
*	48 Chlorobenzene-d5	117	15.356	15.387	(1.000)	1044881	50.0000	
	49 Chlorobenzene	112	15.426	15.456	(1.004)	948572	50.0000	49.2235
	50 1,1,1,2-Tetrachloroethane	131	15.475	15.505	(1.008)	347958	50.0000	48.9300
	51 Ethylbenzene	91	15.544	15.564	(1.012)	1377283	50.0000	45.6057
	52 m,p-Xylenes	106	15.682	15.712	(1.021)	1030216	100.000	93.8876
	53 o-Xylene	106	16.441	16.472	(1.071)	503563	50.0000	46.8088
	54 Styrene	104	16.461	16.481	(1.072)	887548	50.0000	48.3747
	55 Bromoform	173	16.974	17.004	(1.105)	330316	50.0000	49.4763
	56 Isopropylbenzene	105	17.092	17.113	(0.870)	1197621	50.0000	47.7268
	57 1,1,2,2-Tetrachloroethane	83	17.250	17.270	(0.878)	492279	50.0000	50.8997
$	58 Bromofluorobenzene	95	17.477	17.497	(0.889)	486809	50.0000	51.5189
	59 1,2,3-Trichloropropane	110	17.506	17.537	(0.891)	95107	50.0000	50.8127
	60 Propylbenzene	91	17.812	17.842	(0.906)	1757677	50.0000	52.8101
	61 Bromobenzene	156	17.842	17.872	(0.908)	413328	50.0000	48.1910
	62 1,3,5-Trimethylbenzene	105	18.108	18.128	(0.921)	1106245	50.0000	53.8268
	63 2-Chlorotoluene	91	18.118	18.138	(0.922)	1138458	50.0000	52.1824

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO06.D
Report Date: 24-Nov-2004 12:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.197	18.227	(0.926)	1113078	50.0000	53.4111
65 tert-Butylbenzene	119	18.759	18.779	(0.954)	881010	50.0000	49.5296
66 1,2,4-Trimethylbenzene	105	18.818	18.848	(0.957)	1118504	50.0000	51.7110
67 sec-Butylbenzene	105	19.163	19.184	(0.975)	1548932	50.0000	53.4282
68 para-Isopropyl Toluene	119	19.400	19.430	(0.987)	1113182	50.0000	50.5625
69 1,3-Dichlorobenzene	146	19.538	19.568	(0.994)	720321	50.0000	49.5925
* 70 1,4-Dichlorobenzene-d4	152	19.656	19.687	(1.000)	487985	50.0000	
71 1,4-Dichlorobenzene	146	19.716	19.746	(1.003)	727960	50.0000	47.6879
72 n-Butylbenzene	91	20.159	20.190	(1.026)	1206360	50.0000	53.7283
73 1,2-Dichlorobenzene	146	20.396	20.426	(1.038)	701718	50.0000	48.9920
74 1,2-Dibromo-3-Chloropropane	75	21.708	21.738	(1.104)	63521	50.0000	49.7751
75 1,2,4-Trichlorobenzene	180	23.256	23.286	(1.183)	473075	50.0000	50.9440
76 Hexachlorobutadiene	225	23.562	23.582	(1.199)	205012	50.0000	50.9705
77 Naphthalene	128	23.660	23.691	(1.204)	964371	50.0000	48.0419
78 1,2,3-Trichlorobenzene	180	24.124	24.154	(1.227)	438091	50.0000	51.0099

Data File: \\Comsserver\DD\chem\MSVOA09.i\112404.b\IK006.D
Date : 24-NOV-2004 10:58
Client ID: DYNA P&T
Sample Info: CCV,04SS408,0.010/100,04WS2167B,0.020/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO07.D
Report Date: 24-Nov-2004 12:36

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 11:32 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : BSD,QC273797,96868,1/1,=CCV,BS
Misc Info : 50PPB, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\I9M826W.m
Meth Date : 24-Nov-2004 12:36 tapsvc Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.660	3.680	(0.407)	433699	50.0000	54.2577
2 Chloromethane	50	4.035	4.065	(0.449)	415343	50.0000	43.4408
3 Vinyl Chloride	62	4.213	4.232	(0.468)	264577	50.0000	44.9379
4 Bromomethane	94	4.864	4.883	(0.541)	236759	50.0000	60.8352
5 Chloroethane	64	4.972	5.002	(0.553)	187499	50.0000	45.4069
6 Trichlorofluoromethane	101	5.396	5.416	(0.600)	500235	50.0000	44.5211
7 Acetone	43	5.909	5.929	(0.657)	137801	50.0000	53.0345
8 Freon 113	101	6.037	6.057	(0.671)	295257	50.0000	42.9873
9 1,1-Dichloroethene	96	6.225	6.244	(0.692)	324598	50.0000	44.6381
10 Methylene Chloride	84	6.797	6.816	(0.756)	427884	50.0000	42.2917
11 Carbon Disulfide	76	6.925	6.955	(0.770)	1361030	50.0000	44.9484
12 MTBE	73	7.093	7.122	(0.788)	780960	50.0000	41.0915
13 trans-1,2-Dichloroethene	96	7.270	7.300	(0.808)	380991	50.0000	43.9324
14 Vinyl Acetate	43	7.734	7.763	(0.860)	879817	50.0000	49.0061
15 1,1-Dichloroethane	63	7.793	7.822	(0.866)	714438	50.0000	42.6413
16 2-Butanone	43	8.286	8.316	(0.921)	198626	50.0000	47.6894

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO07.D
Report Date: 24-Nov-2004 12:36

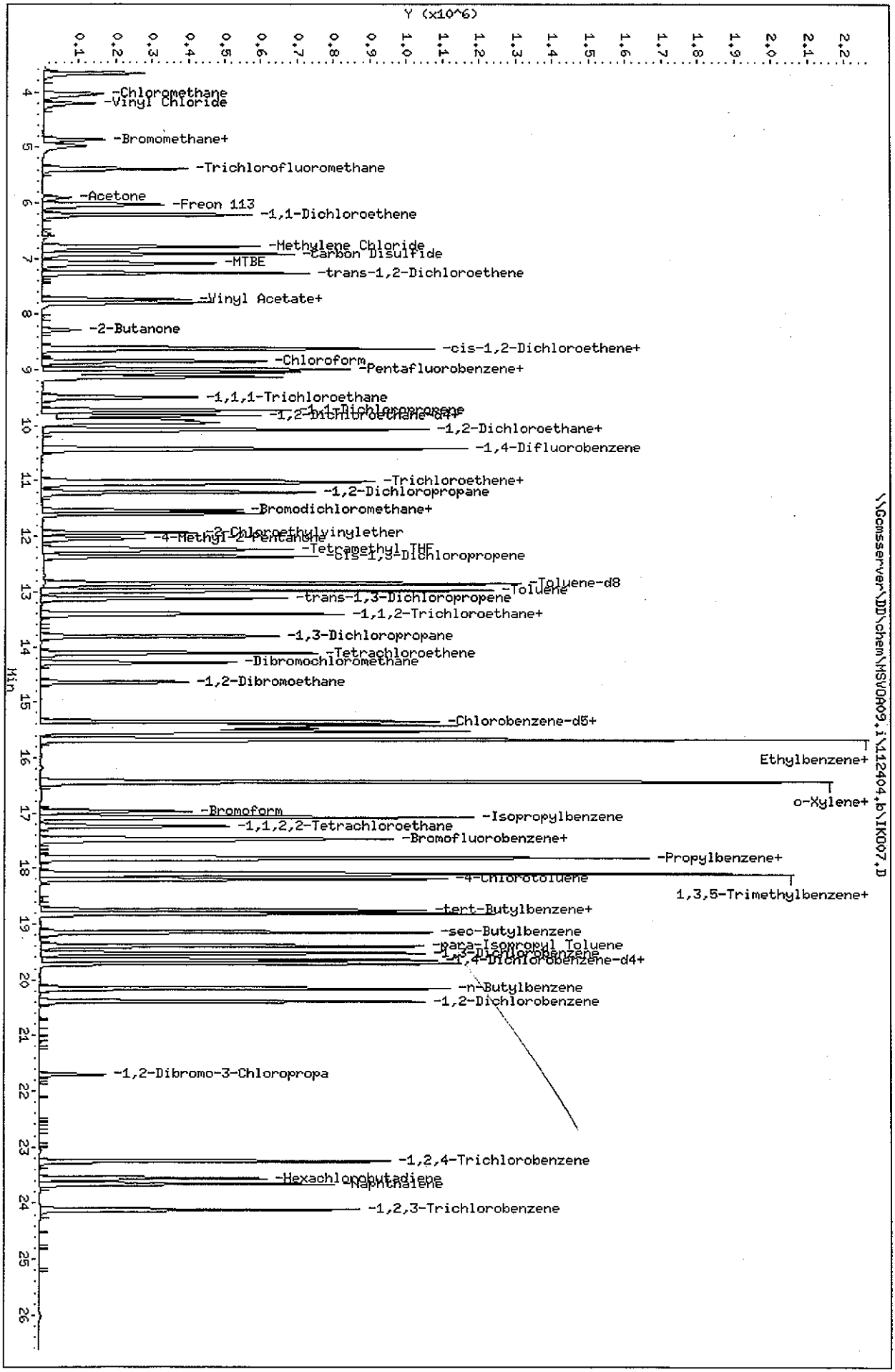
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.631	8.651	(0.959)	411897	50.0000	42.5069
	18 2,2-Dichloropropane	77	8.631	8.651	(0.959)	435834	50.0000	42.5494
	19 Chloroform	83	8.858	8.887	(0.985)	686622	50.0000	41.2085
*	20 Pentafluorobenzene	168	8.996	9.026	(1.000)	984205	50.0000	
	21 Bromochloromethane	128	9.055	9.085	(1.007)	263116	50.0000	44.2186
$	22 Dibromofluoromethane	113	9.134	9.164	(1.015)	619353	50.0000	46.6392
	23 1,1,1-Trichloroethane	97	9.509	9.529	(1.057)	444979	50.0000	42.2734
	24 1,1-Dichloropropene	75	9.736	9.765	(0.933)	477742	50.0000	45.9090
$	25 1,2-Dichloroethane-d4	65	9.834	9.854	(0.942)	542654	50.0000	50.9440
	26 Carbon Tetrachloride	117	9.913	9.943	(0.950)	401023	50.0000	43.8929
	27 1,2-Dichloroethane	62	9.962	9.992	(0.955)	469154	50.0000	45.6243
	28 Benzene	78	10.091	10.120	(0.967)	1414303	50.0000	46.2105
*	29 1,4-Difluorobenzene	114	10.436	10.465	(1.000)	1442187	50.0000	
	30 Trichloroethene	95	11.018	11.037	(1.056)	407876	50.0000	45.2619
$	31 Trifluorotoluene	146	11.057	11.077	(1.060)	459582	50.0000	42.9096
	32 1,2-Dichloropropane	63	11.215	11.235	(1.075)	473100	50.0000	50.0998
	33 Bromodichloromethane	83	11.540	11.570	(1.106)	510416	50.0000	44.3135
	34 Dibromomethane	93	11.600	11.629	(1.112)	353601	50.0000	46.0329
	35 2-Chloroethylvinylether	63	11.945	11.974	(1.145)	279736	50.0000	45.4470
	36 4-Methyl-2-Pentanone	43	12.043	12.063	(1.154)	391858	50.0000	46.2986
	37 Tetramethyl THF	43	12.241	12.270	(1.173)	827162	50.0000	48.1767
	38 cis-1,3-Dichloropropene	75	12.369	12.398	(1.185)	647698	50.0000	46.8836
$	39 Toluene-d8	98	12.862	12.882	(1.232)	1361540	50.0000	49.6321
	40 Toluene	92	12.990	13.010	(1.245)	812040	50.0000	46.1870
	41 trans-1,3-Dichloropropene	75	13.138	13.158	(1.259)	541038	50.0000	45.9895
	42 1,1,2-Trichloroethane	85	13.414	13.434	(1.285)	217444	50.0000	44.7638
	43 2-Hexanone	43	13.424	13.454	(0.874)	268771	50.0000	52.6844
	44 1,3-Dichloropropane	76	13.819	13.838	(0.900)	585069	50.0000	51.3415
	45 Tetrachloroethene	166	14.124	14.154	(0.920)	367753	50.0000	50.7369
	46 Dibromochloromethane	129	14.292	14.322	(0.931)	473732	50.0000	49.6001
	47 1,2-Dibromoethane	107	14.647	14.677	(1.404)	443178	50.0000	45.4117
*	48 Chlorobenzene-d5	117	15.357	15.387	(1.000)	1065734	50.0000	
	49 Chlorobenzene	112	15.426	15.456	(1.004)	968792	50.0000	49.2891
	50 1,1,1,2-Tetrachloroethane	131	15.475	15.505	(1.008)	343138	50.0000	47.3081
	51 Ethylbenzene	91	15.544	15.564	(1.012)	1447560	50.0000	46.9949
	52 m,p-Xylenes	106	15.683	15.712	(1.021)	1019522	100.000	91.0950
	53 o-Xylene	106	16.442	16.472	(1.071)	556978	50.0000	50.7609
	54 Styrene	104	16.462	16.481	(1.072)	983425	50.0000	52.5517
	55 Bromoform	173	16.984	17.004	(1.106)	334158	50.0000	49.0726
	56 Isopropylbenzene	105	17.083	17.113	(0.869)	1375364	50.0000	56.5583
	57 1,1,2,2-Tetrachloroethane	83	17.251	17.270	(0.878)	498883	50.0000	53.2277
$	58 Bromofluorobenzene	95	17.468	17.497	(0.889)	498217	50.0000	54.4079
	59 1,2,3-Trichloropropane	110	17.517	17.537	(0.891)	98228	50.0000	54.1543
	60 Propylbenzene	91	17.813	17.842	(0.906)	1729605	50.0000	53.6241
	61 Bromobenzene	156	17.842	17.872	(0.908)	406228	50.0000	48.8738
	62 1,3,5-Trimethylbenzene	105	18.109	18.128	(0.921)	1027210	50.0000	51.5753
	63 2-Chlorotoluene	91	18.118	18.138	(0.922)	1081845	50.0000	51.1691

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO07.D
Report Date: 24-Nov-2004 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.197	18.227	(0.926)	1072758	50.0000	53.1182
65 tert-Butylbenzene	119	18.760	18.779	(0.954)	950931	50.0000	55.1656
66 1,2,4-Trimethylbenzene	105	18.819	18.848	(0.957)	1158939	50.0000	55.2893
67 sec-Butylbenzene	105	19.154	19.184	(0.974)	1432404	50.0000	50.9846
68 para-Isopropyl Toluene	119	19.401	19.430	(0.987)	1095616	50.0000	51.3518
69 1,3-Dichlorobenzene	146	19.539	19.568	(0.994)	742816	50.0000	52.7725
* 70 1,4-Dichlorobenzene-d4	152	19.657	19.687	(1.000)	472902	50.0000	
71 1,4-Dichlorobenzene	146	19.716	19.746	(1.003)	745029	50.0000	50.3627
72 n-Butylbenzene	91	20.160	20.190	(1.026)	1132968	50.0000	52.0690
73 1,2-Dichlorobenzene	146	20.397	20.426	(1.038)	741422	50.0000	53.4151
74 1,2-Dibromo-3-Chloropropane	75	21.708	21.738	(1.104)	65214	50.0000	52.7314
75 1,2,4-Trichlorobenzene	180	23.257	23.286	(1.183)	473604	50.0000	52.6277
76 Hexachlorobutadiene	225	23.562	23.582	(1.199)	202412	50.0000	51.9291
77 Naphthalene	128	23.661	23.691	(1.204)	987521	50.0000	50.7642
78 1,2,3-Trichlorobenzene	180	24.125	24.154	(1.227)	443421	50.0000	53.2773

Data File: \\Gomsserver\DD\chem\MSVOA09.i\112404.b\IK007.D
Date : 24-NOV-2004 11:32
Client ID: DYNA P&T
Sample Info: BSD,QC273797,96868,1/1,=CCV,BS
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Initial Calibration Data

8260W ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

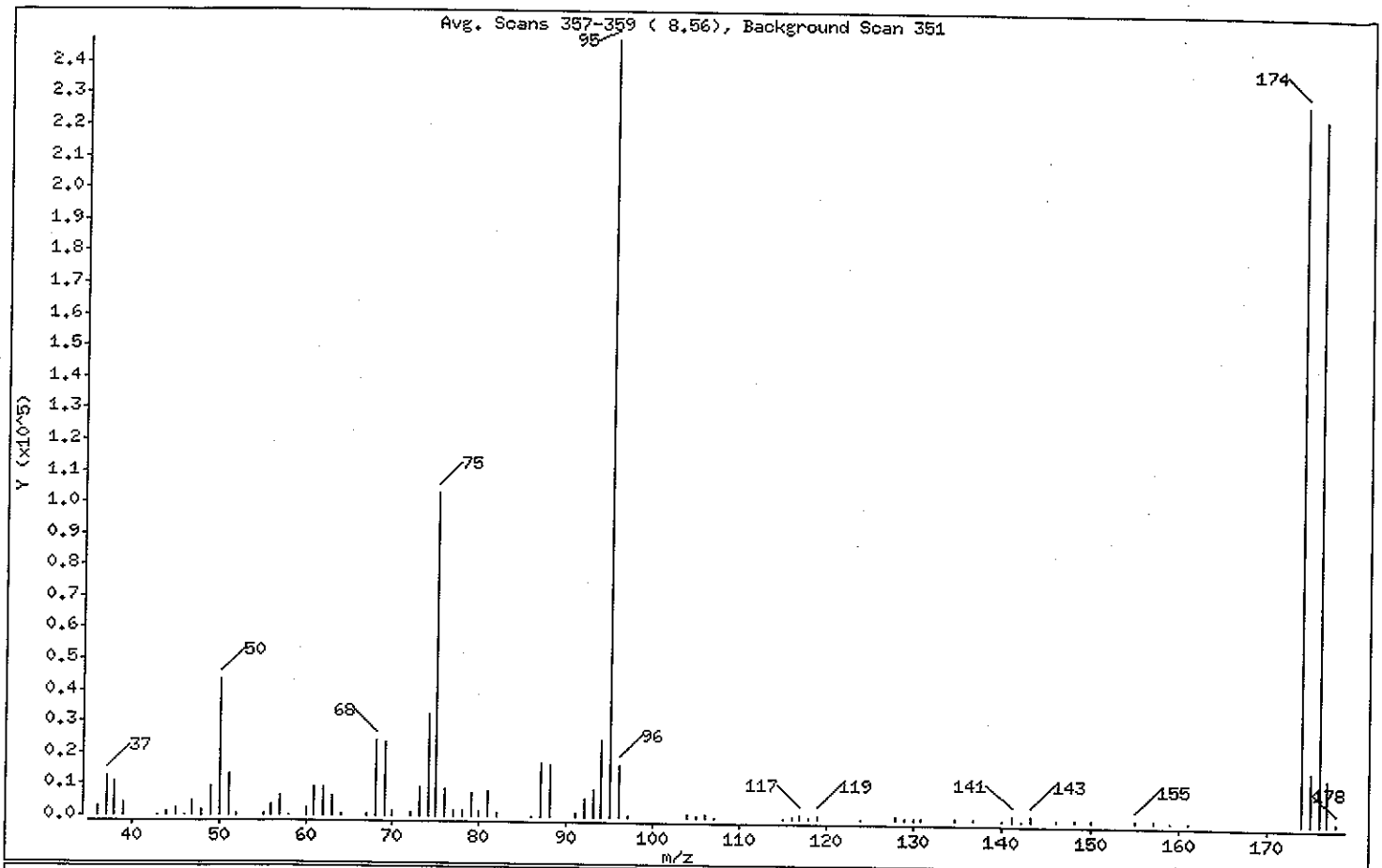
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	41.55
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	92.38
175	5.00 - 9.00% of mass 174	6.66 (7.21)
176	95.01 - 100.99% of mass 174	90.67 (98.15)
177	5.00 - 9.00% of mass 176	5.78 (6.38)

Rev 11/22/04

11/22/04

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

Data File: IKL04.D

Spectrum: Avg. Scans 357-359 (8.56), Background Scan 351

Location of Maximum: 95.00

Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2624	63.00	6528	92.00	5547	137.00	451
37.00	12742	64.00	549	93.00	8547	140.00	98
38.00	10925	67.00	687	94.00	24256	141.00	1897
39.00	4261	68.00	23840	95.00	247296	142.00	110
43.00	94	69.00	23560	96.00	16552	143.00	1982
44.00	1084	70.00	1582	97.00	588	146.00	415
45.00	2537	72.00	1131	104.00	985	148.00	669
46.00	101	73.00	8977	105.00	415	150.00	313
47.00	4417	74.00	32688	106.00	1009	155.00	514
48.00	1573	75.00	102744	107.00	173	157.00	418
49.00	9208	76.00	8557	115.00	192	159.00	111
50.00	43488	77.00	1731	116.00	802	161.00	88
51.00	13347	78.00	1591	117.00	1384	174.00	228416
52.00	701	79.00	7107	118.00	722	175.00	16456
55.00	601	80.00	1785	119.00	1138	176.00	224192
56.00	3212	81.00	7700	124.00	186	177.00	14299
57.00	6199	82.00	1364	128.00	886	178.00	433
58.00	238	86.00	166	129.00	413		
60.00	2031	87.00	17160	130.00	824		
61.00	9172	88.00	16488	131.00	376		
62.00	9088	91.00	923	135.00	423		

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL04.D

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Sample Info: BFB,04WS1238

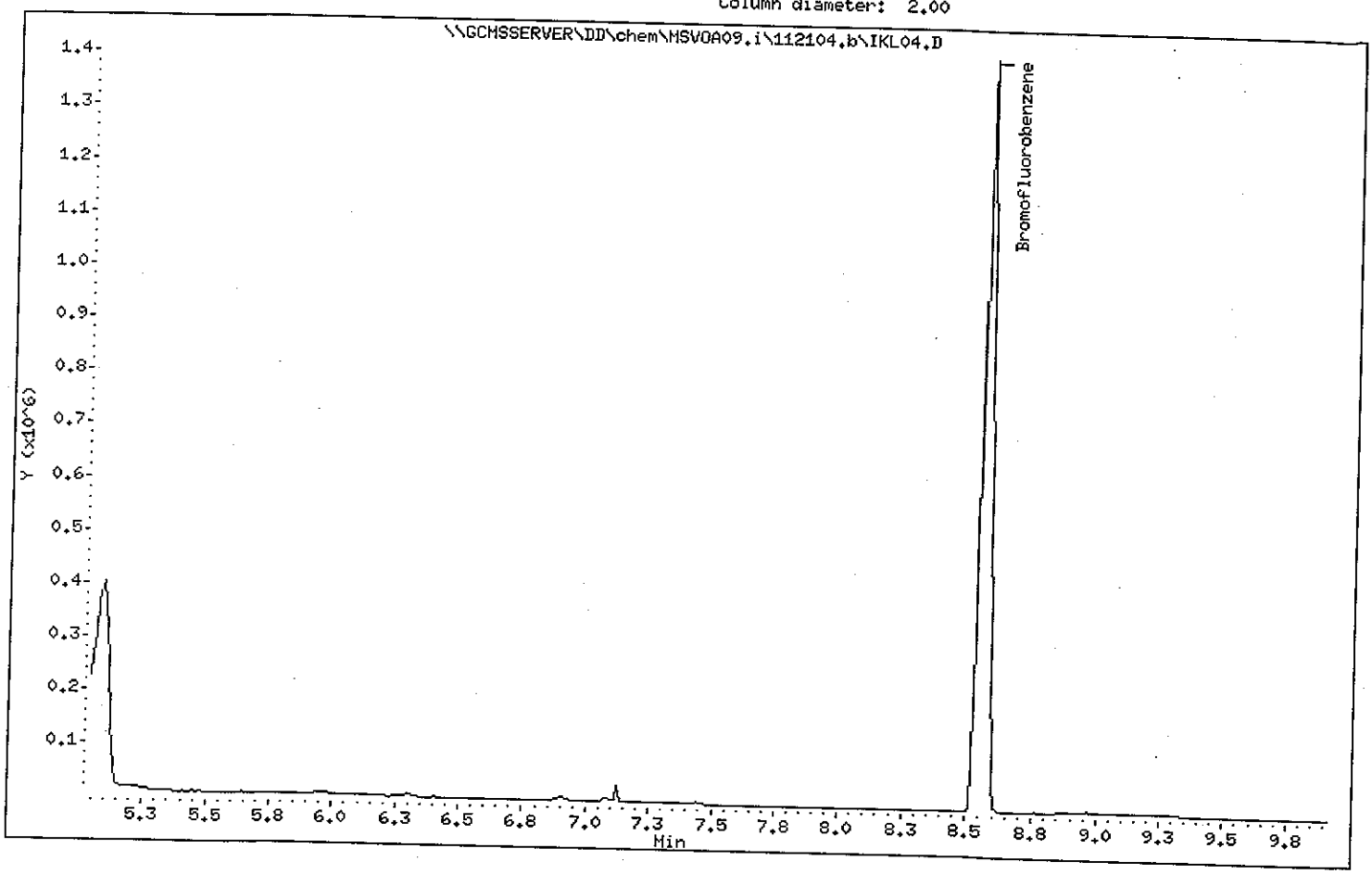
Volume Injected (uL): 1.0

Column phase:

Instrument: MSVOA09.i

Operator: BO

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK005.D

Date : 24-NOV-2004 10:40

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

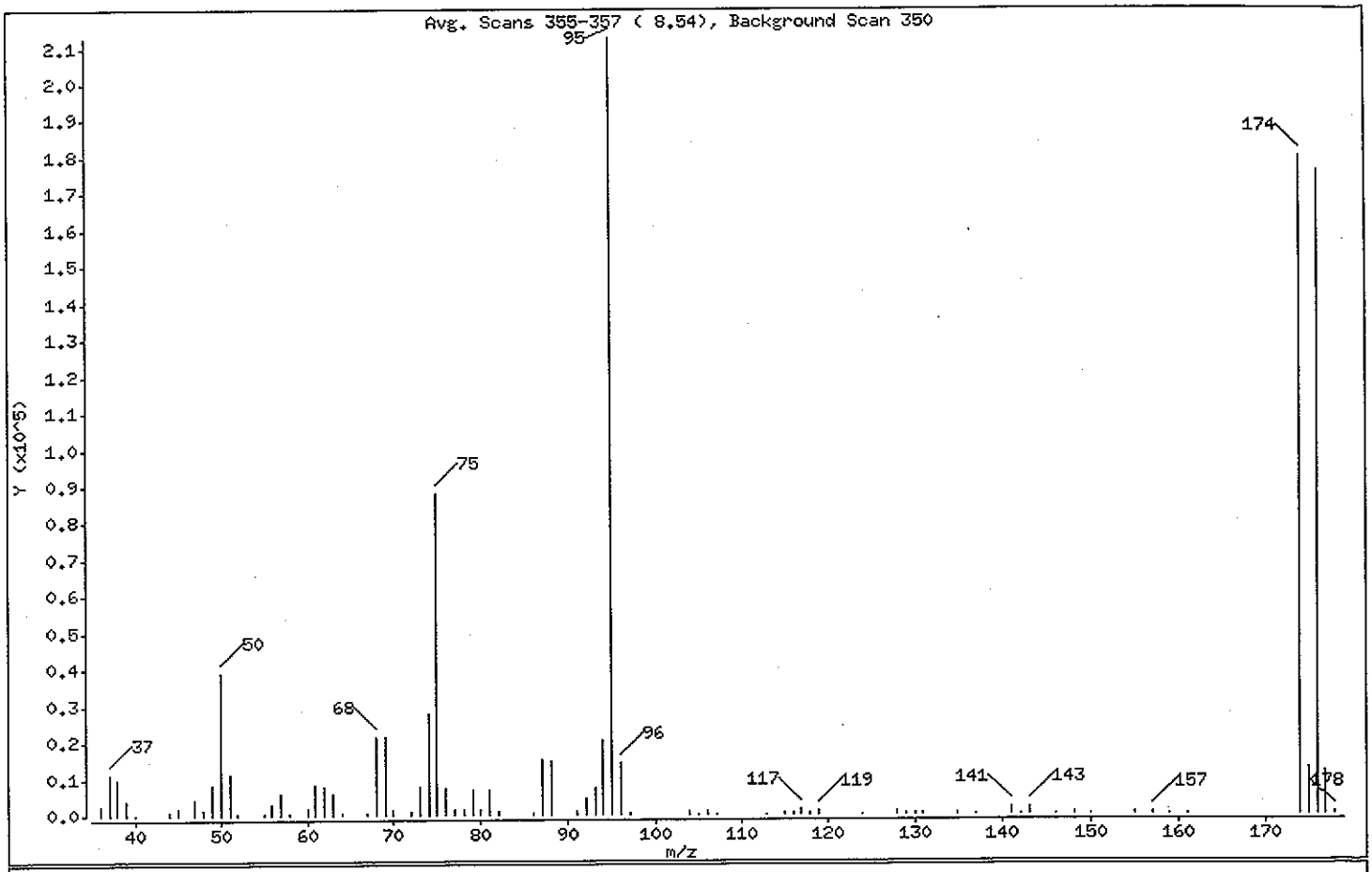
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.31
75	30.00 - 60.00% of mass 95	41.33
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	84.71
175	5.00 - 9.00% of mass 174	6.07 (7.17)
176	95.01 - 100.99% of mass 174	82.69 (97.62)
177	5.00 - 9.00% of mass 176	5.63 (6.80)

pw 11 2 2004

11/29/04

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK005.D

Date : 24-NOV-2004 10:40

Client ID: bfb tune std

Instrument: MSVOA09.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

Data File: IK005.D
Spectrum: Avg. Scans 355-357 (8.54), Background Scan 350
Location of Maximum: 95.00
Number of points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2355	63.00	5759	91.00	899	130.00	704
37.00	11352	64.00	616	92.00	4592	131.00	343
38.00	9605	67.00	693	93.00	7436	135.00	329
39.00	3782	68.00	21568	94.00	20528	137.00	244
40.00	100	69.00	21440	95.00	212736	141.00	1837
44.00	755	70.00	1609	96.00	14114	142.00	101
45.00	2125	72.00	902	97.00	369	143.00	1733
47.00	4192	73.00	7675	104.00	861	146.00	206
48.00	1250	74.00	27808	105.00	234	148.00	521
49.00	8522	75.00	87920	106.00	761	150.00	187
50.00	38944	76.00	7284	107.00	96	155.00	374
51.00	11409	77.00	1548	113.00	92	157.00	381
52.00	622	78.00	1500	115.00	299	159.00	195
55.00	537	79.00	6974	116.00	677	161.00	193
56.00	2809	80.00	1621	117.00	1229	174.00	180160
57.00	5653	81.00	6740	118.00	652	175.00	12920
58.00	292	82.00	1216	119.00	1002	176.00	175872
60.00	1716	86.00	284	124.00	88	177.00	11970
61.00	8426	87.00	14916	128.00	763	178.00	249
62.00	8048	88.00	14760	129.00	321		

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IK005.D

Date : 24-NOV-2004 10:40

Client ID: bfb tune std

Instrument: MSVOA09.i

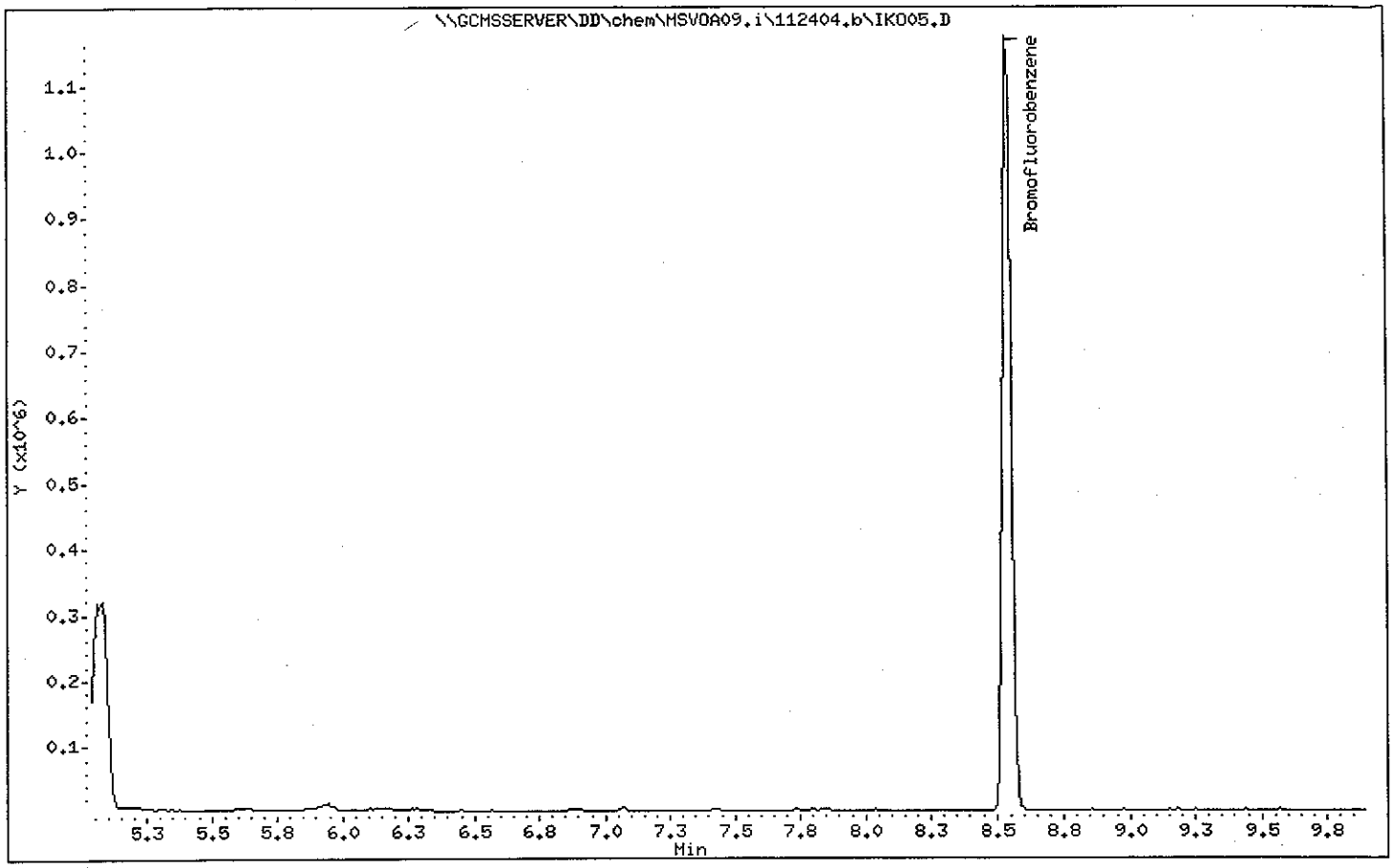
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00



8260W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	ikl07	484470109007	0.5/1PPB	21-NOV-2004 17:13	04SS393 (500000X), 04WS2167A (500000X), 04WS2204A (1000000X), 04WS2096 (5000X)
2	ikl08	484470109008	5PPB	21-NOV-2004 17:48	04SS393 (100000X), 04WS2167A (50000X), 04WS2204A (200000X), 04WS2096 (5000X)
3	ikl09	484470109009	10PPB	21-NOV-2004 18:22	04SS393 (50000X), 04WS2167A (25000X), 04WS2204A (100000X), 04WS2096 (5000X)
4	ikl10	484470109010	20PPB	21-NOV-2004 18:57	04SS393 (25000X), 04WS2167A (12500X), 04WS2204A (50000X), 04WS2096 (5000X)
5	ikl11	484470109011	50PPB	21-NOV-2004 19:31	04SS393 (10000X), 04WS2167A (5000X), 04WS2204A (20000X), 04WS2096 (5000X)
6	ikl12	484470109012	75PPB	21-NOV-2004 20:06	04SS393 (6667X), 04WS2167A (3333X), 04WS2204A (13333X), 04WS2096 (5000X)
7	ikl13	484470109013	100PPB	21-NOV-2004 20:40	04SS393 (5000X), 04WS2167A (2500X), 04WS2204A (10000X), 04WS2096 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.3466	0.4055	0.3536	0.4576	0.4435	0.4307	0.4051	AVRG	R		2.462567		ug/L	0.4061	11	0.0500	0.99	15	
Chloromethane	0.5484m	0.5383	0.5128	0.5055	0.4534	0.4412	0.4005	AVRG	R		2.058765		ug/L	0.4857	11	0.1000	0.99	15	
Vinyl Chloride	0.3204	0.3416	0.3027	0.3113	0.2726	0.2460		AVRG	R		3.343299		ug/L	0.2991	12	0.0500	0.99	15	
Bromomethane	0.2248	0.1629m	0.1701	0.1829	0.1881	0.2265	0.2287	AVRG	R		5.057831		ug/L	0.1977	14	0.0500	0.99	15	
Chloroethane	0.2144	0.2338	0.2102m	0.2281	0.2004	0.2078	0.1738	AVRG	R		4.766932		ug/L	0.2098	9	0.0500	0.99	15	
Trichlorofluoromethane	0.5056	0.5896	0.5235	0.6032	0.6174	0.6042	0.5522	AVRG	R		1.751893		ug/L	0.5708	8	0.0500	0.99	15	
Acetone		0.1415	0.1519	0.1338	0.1205	0.1244	0.1199	AVRG	R		7.575668		ug/L	0.1320	10	0.0500	0.99	15	
Freon 113	0.2973	0.3511	0.3150	0.3626	0.3517	0.3895	0.3752	AVRG	R		2.865867		ug/L	0.3489	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3545	0.3681	0.3680	0.3601	0.3705	0.3995	0.3653	AVRG	R		2.706916		ug/L	0.3694	4	0.0500	0.99	15	
Methylene Chloride		0.5611	0.5690	0.5399	0.4949	0.4795	0.4396	AVRG	R		1.945558		ug/L	0.5140	10	0.0500	0.99	15	
Carbon Disulfide	1.7320	1.5661	1.5273	1.5514	1.4552	1.5154	1.4206	AVRG	R		0.650073		ug/L	1.5383	6	0.0500	0.99	15	
MTBE	0.9565	0.9604	1.0219	0.9856	0.9688	0.9433	0.9221	AVRG	R		1.035712		ug/L	0.9655	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4464	0.4668	0.4604	0.4343	0.4291	0.4312	0.4157	AVRG	R		2.269791		ug/L	0.4406	4	0.0500	0.99	15	
Vinyl Acetate		0.8660	0.9479	0.9904	0.9251	0.9341	0.8089	AVRG	R		1.096411		ug/L	0.9121	7	0.0500	0.99	15	
1,1-Dichloroethane	0.9195	0.8731	0.9210	0.8711	0.8264	0.8101	0.7369	AVRG	R		1.174847		ug/L	0.8512	8	0.1000	0.99	15	
2-Butanone		0.2068	0.2261	0.2153	0.2074	0.2185	0.1955	AVRG	R		4.726073		ug/L	0.2116	5	0.0500	0.99	15	
2,2-Dichloropropane	0.5245	0.5501	0.5178	0.5536	0.5089	0.5043	0.4834	AVRG	R		1.921712		ug/L	0.5204	5	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.5041	0.5181	0.5111	0.5314	0.4743	0.4600	0.4470	AVRG	R		2.031355		ug/L	0.4923	6	0.0500	0.99	15	

Flags used: m=manual integration for incomplete integration in Target
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

* ICAL - OK
- VC to 75 ppb
- 3rd ion missing for 1112PCE, BrCfm @ 0.5 ppb
* ICV - Fr12b, 2CLEVEb, USALG-CIMeb, CS2b

8260 W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.9907	0.8460	0.8917	0.8643	0.8197	0.7833	0.7296	AVRG	R		1.181367		ug/L	0.8465	10	0.0500	0.99	15	
Bromochloromethane	0.3065	0.2985	0.3178	0.3067	0.3046	0.2945	0.2876	AVRG	R		3.308051		ug/L	0.3023	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.5242	0.5224	0.5238	0.5587	0.5323	0.5539	0.5280	AVRG	R		1.870007		ug/L	0.5348	3	0.0500	0.99	15	
1,1-Dichloropropene	0.3357	0.3581	0.3574	0.3372	0.3733	0.3941	0.3698	AVRG	R		2.771765		ug/L	0.3608	6	0.0500	0.99	15	
Carbon Tetrachloride	0.2723	0.3038	0.3023	0.3101	0.3213	0.3616	0.3459	AVRG	R		3.157021		ug/L	0.3168	9	0.0500	0.99	15	
1,2-Dichloroethane	0.3168	0.3641	0.3794	0.3621	0.3633	0.3601	0.3499	AVRG	R		2.804995		ug/L	0.3565	5	0.0500	0.99	15	
Benzene	1.0877	1.1446	1.1555	0.9874	1.0001	1.0415	1.0109	AVRG	R		0.942433		ug/L	1.0611	7	0.0500	0.99	15	
Trichloroethene	0.3072	0.3218	0.3143	0.3112	0.3000	0.3282	0.3042	AVRG	R		3.200784		ug/L	0.3124	3	0.0500	0.99	15	
1,2-Dichloropropane	0.3317	0.3300	0.3432	0.3162	0.3241	0.3281	0.3185	AVRG	R		3.054457		ug/L	0.3274	3	0.0500	0.99	15	
Bromodichloromethane	0.3630	0.4034	0.4243	0.4013	0.3967	0.4170	0.3897	AVRG	R		2.504170		ug/L	0.3993	5	0.0500	0.99	15	
Dibromomethane	0.2540	0.2610	0.2754	0.2596	0.2733	0.2791	0.2619	AVRG	R		3.754973		ug/L	0.2663	4	0.0500	0.99	15	
2-Chloroethylvinylether		0.1921	0.2233	0.2062	0.2079	0.2298	0.2211	AVRG	R		4.686068		ug/L	0.2134	7	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.2699	0.3085	0.2956	0.3043	0.2988	0.2836	AVRG	R		3.407925		ug/L	0.2934	5	0.0500	0.99	15	
Tetramethyl THF	0.5536	0.6152	0.6232	0.5813	0.6045	0.6330	0.5561	AVRG	R		1.679959		ug/L	0.5953	5	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4405	0.4796	0.5050	0.4627	0.4942	0.5076	0.4632	AVRG	R		2.087857		ug/L	0.4790	5	0.0500	0.99	15	
Toluene	0.5994	0.6456	0.6540	0.5870	0.5664	0.6386	0.5759	AVRG	R		1.640569		ug/L	0.6095	6	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.3536	0.3930	0.4180	0.4129	0.4241	0.4395	0.4140	AVRG	R		2.451788		ug/L	0.4079	7	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1502	0.1732	0.1785	0.1681	0.1691	0.1728	0.1670	AVRG	R		5.937881		ug/L	0.1684	5	0.0500	0.99	15	
2-Hexanone		0.2283	0.2414	0.2373	0.2437	0.2361	0.2492	AVRG	R		4.178095		ug/L	0.2393	3	0.0500	0.99	15	
1,3-Dichloropropane	0.5071	0.5642	0.5605	0.5175	0.5426	0.5067	0.5438	AVRG	R		1.870426		ug/L	0.5346	5	0.0500	0.99	15	
Tetrachloroethene	0.3265	0.3480	0.3166	0.3222	0.3559	0.3604	0.3508	AVRG	R		2.940669		ug/L	0.3401	5	0.0500	0.99	15	
Dibromochloromethane	0.3884	0.4493	0.4800	0.4390	0.4407	0.4657	0.4735	AVRG	R		2.231663		ug/L	0.4481	7	0.0500	0.99	15	
1,2-Dibromoethane	0.3035	0.3378	0.3545	0.3309	0.3492	0.3527	0.3398	AVRG	R		2.955571		ug/L	0.3383	5	0.0500	0.99	15	
Chlorobenzene	0.9385	0.9416	1.0128	0.8793	0.8825	0.8822	0.9181	AVRG	R		1.084424		ug/L	0.9221	5	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3190	0.3485	0.3530	0.3274	0.3480	0.3346	0.3514	AVRG	R		2.938637		ug/L	0.3403	4	0.0500	0.99	15	
Ethylbenzene	1.4301	1.5492	1.3938	1.3886	1.4299	1.4249	1.4994	AVRG	R		0.691979		ug/L	1.4451	4	0.0500	0.99	15	
m,p-Xylenes	0.5028	0.5501	0.5368	0.5435	0.5305	0.5225	0.4894	AVRG	R		1.904483		ug/L	0.5251	4	0.0500	0.99	15	
o-Xylene	0.4605	0.5379	0.5327	0.5150	0.5362	0.5203	0.5009	AVRG	R		1.942542		ug/L	0.5148	5	0.0500	0.99	15	
Styrene	0.7518	0.8984	0.9149	0.8701	0.9065	0.9272	0.8768	AVRG	R		1.139001		ug/L	0.8780	7	0.0500	0.99	15	
Bromoform	0.2995	0.2967	0.3256	0.2983	0.3318	0.3353	0.3490	AVRG	R		3.130149		ug/L	0.3195	7	0.1000	0.99	15	
Isopropylbenzene	2.2208	2.4894	2.6693	2.6839	2.8030	2.6082	2.5232	AVRG	R		0.388938		ug/L	2.5711	7	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

826OW ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09 HP GCMS VOA 09 Reviewed By:
Calnum: 484470109001 Name: I9M826W Type: WATER Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.9305	0.9460	1.1377	1.0030	1.0039	0.9633	0.9524	AVRG	R		1.009114		ug/L	0.9910	7	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1389	0.1895	0.2166	0.1950	0.2119	0.1981	0.1924	AVRG	R		5.214289		ug/L	0.1918	13	0.0500	0.99	15	
Propylbenzene	3.4457	3.2925	3.7549	3.3437	3.5112	3.3981	3.1255	AVRG	R		0.293234		ug/L	3.4102	6	0.0500	0.99	15	
Bromobenzene	0.8299	0.8606	0.9918	0.8806	0.9081	0.8478	0.8328	AVRG	R		1.137910		ug/L	0.8788	6	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.9507	2.0972	2.2964	2.1085	2.1821	2.2156	1.8901	AVRG	R		0.474880		ug/L	2.1058	7	0.0500	0.99	15	
2-Chlorotoluene	2.2887	2.2410	2.4560	2.2156	2.2587	2.2358	1.9520	AVRG	R		0.447346		ug/L	2.2354	7	0.0500	0.99	15	
4-Chlorotoluene	2.2614	2.1124	2.2806	2.2075	2.1232	2.0043	1.9576	AVRG	R		0.468320		ug/L	2.1353	6	0.0500	0.99	15	
tert-Butylbenzene	1.5974	1.7573	2.0089	1.8438	1.9092	1.9928	1.6487	AVRG	R		0.548682		ug/L	1.8225	9	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.0771	2.0797	2.4881	2.2768	2.2595	2.2572	2.0753	AVRG	R		0.451213		ug/L	2.2162	7	0.0500	0.99	15	
sec-Butylbenzene	2.8263	2.7139	3.0628	2.8934	3.1218	3.1578	3.0173	AVRG	R		0.336647		ug/L	2.9705	6	0.0500	0.99	15	
para-Isopropyl Toluene	1.9391	2.2518	2.4399	2.2911	2.2697	2.3610	2.2380	AVRG	R		0.443302		ug/L	2.2558	7	0.0500	0.99	15	
1,3-Dichlorobenzene	1.2658	1.4347	1.7114	1.5203	1.4743	1.5399	1.4712	AVRG	R		0.671935		ug/L	1.4882	9	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5502	1.5115	1.6722	1.5494	1.5839	1.6216	1.4598	AVRG	R		0.639348		ug/L	1.5641	4	0.0500	0.99	15	
n-Butylbenzene	2.0251	2.1813	2.4483	2.4251	2.3584	2.3883	2.2775	AVRG	R		0.434674		ug/L	2.3006	7	0.0500	0.99	15	
1,2-Dichlorobenzene	1.4451	1.3633	1.6336	1.3762	1.5231	1.4940	1.4377	AVRG	R		0.681396		ug/L	1.4676	6	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.0953	0.1193	0.1428	0.1377	0.1488	0.1391	0.1323	AVRG	R		7.647665		ug/L	0.1308	14	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8462	0.8671	1.0344	0.9171	1.0210	1.0173	0.9572	AVRG	R		1.050993		ug/L	0.9515	8	0.0500	0.99	15	
Hexachlorobutadiene	0.3535	0.3841	0.4334	0.4041	0.4384	0.4517	0.4195	AVRG	R		2.426477		ug/L	0.4121	8	0.0500	0.99	15	
Naphthalene	1.8382	1.6841	2.1415	2.1680	2.2262	2.2561	2.0834	AVRG	R		0.486198		ug/L	2.0568	10	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8014	0.7936	0.9469	0.8960	0.9466	0.9027	0.8727	AVRG	R		1.136388		ug/L	0.8800	7	0.0500	0.99	15	
Dibromofluoromethane	0.6915	0.6771	0.6642	0.6832	0.6662	0.6947	0.6456	AVRG	R		1.482274		ug/L	0.6746	3	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.3456	0.3636	0.3813	0.3627	0.3774	0.3891	0.3655	AVRG	R		2.707833		ug/L	0.3693	4	0.0500	0.99	15	
Trifluorotoluene	0.3499	0.3520	0.3460	0.3534	0.3826	0.4201	0.3954	AVRG	R		2.693045		ug/L	0.3713	8	0.0500	0.99	15	
Toluene-d8	0.9290	0.9134	0.9522	0.9361	0.9328	0.9926	1.0014	AVRG	R		1.051440		ug/L	0.9511	4	0.0500	0.99	15	
Bromofluorobenzene	0.9657	0.8986	1.0247	0.9486	1.0281	0.9739	0.9378	AVRG	R		1.032868		ug/L	0.9682	5	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Report Date: 22-Nov-2004 08:35

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 17:13 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICAL,04SS393,0.002/1000,04WS2167A,0.002/1000,
Misc Info : 04WS2204A,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:35 target Quant Type: ISTD
Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.685	3.685	(0.409)	6299	1.00000	0.8534
2 Chloromethane	50	4.049	4.049	(0.449)	9967	1.00000	1.1290(M) 2 11/22/04
3 Vinyl Chloride	62	4.237	4.237	(0.470)	5823	1.00000	1.0711
4 Bromomethane	94	4.878	4.878	(0.541)	4086	1.00000	1.1371
5 Chloroethane	64	4.996	4.996	(0.554)	3896	1.00000	1.0218
6 Trichlorofluoromethane	101	5.420	5.420	(0.601)	9189	1.00000	0.8857
7 Acetone	43	5.933	5.933	(0.658)	2401	0.50000	1.0008
8 Freon 113	101	6.071	6.071	(0.673)	2702	0.50000	0.4260(a)
9 1,1-Dichloroethene	96	6.249	6.249	(0.693)	3221	0.50000	0.4797(a)
10 Methylene Chloride	84	6.821	6.821	(0.756)	5860	0.50000	0.6273
11 Carbon Disulfide	76	6.949	6.949	(0.770)	15739	0.50000	0.5629
12 MTBE	73	7.126	7.126	(0.790)	8692	0.50000	0.4953(a)
13 trans-1,2-Dichloroethene	96	7.294	7.294	(0.809)	4057	0.50000	0.5066
14 Vinyl Acetate	43	7.758	7.758	(0.860)	8288	0.50000	0.4999(a)
15 1,1-Dichloroethane	63	7.817	7.817	(0.867)	8356	0.50000	0.5401
16 2-Butanone	43	8.310	8.310	(0.921)	2590	0.50000	0.6734

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Report Date: 22-Nov-2004 08:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.655	8.655	(0.960)	4581	0.50000	0.5120
	18 2,2-Dichloropropane	77	8.655	8.655	(0.960)	4766	0.50000	0.5039
	19 Chloroform	83	8.892	8.892	(0.986)	9003	0.50000	0.5852
*	20 Pentafluorobenzene	168	9.020	9.020	(1.000)	908727	50.0000	
	21 Bromochloromethane	128	9.079	9.079	(1.007)	2785	0.50000	0.5069
$	22 Dibromofluoromethane	113	9.168	9.168	(1.016)	628368	50.0000	51.2482
	23 1,1,1-Trichloroethane	97	9.533	9.533	(1.057)	4764	0.50000	0.4901(a)
	24 1,1-Dichloropropene	75	9.760	9.760	(0.933)	5181	0.50000	0.4652(a)
$	25 1,2-Dichloroethane-d4	65	9.858	9.858	(0.942)	533290	50.0000	46.7880
	26 Carbon Tetrachloride	117	9.947	9.947	(0.951)	4202	0.50000	0.4298(a)
	27 1,2-Dichloroethane	62	9.986	9.986	(0.955)	4889	0.50000	0.4443(a)
	28 Benzene	78	10.115	10.115	(0.967)	16785	0.50000	0.5125
*	29 1,4-Difluorobenzene	114	10.460	10.460	(1.000)	1543192	50.0000	
	30 Trichloroethene	95	11.042	11.042	(1.056)	4741	0.50000	0.4916(a)
$	31 Trifluorotoluene	146	11.071	11.071	(1.058)	5399	0.50000	0.4710(a)
	32 1,2-Dichloropropane	63	11.239	11.239	(1.074)	5119	0.50000	0.5066
	33 Bromodichloromethane	83	11.574	11.574	(1.107)	5602	0.50000	0.4545(a)
	34 Dibromomethane	93	11.633	11.633	(1.112)	3919	0.50000	0.4767(a)
	35 2-Chloroethylvinylether	63	11.969	11.969	(1.144)	5544	1.00000	0.8417
	36 4-Methyl-2-Pentanone	43	12.077	12.077	(1.155)	4180	0.50000	0.4615(a)
	37 Tetramethyl THF	43	12.275	12.275	(1.173)	8543	0.50000	0.4650(a)
	38 cis-1,3-Dichloropropene	75	12.393	12.393	(1.185)	6797	0.50000	0.4597(a)
$	39 Toluene-d8	98	12.886	12.886	(1.232)	1433625	50.0000	48.8393
	40 Toluene	92	13.014	13.014	(1.244)	9250	0.50000	0.4916(a)
	41 trans-1,3-Dichloropropene	75	13.162	13.162	(1.258)	5457	0.50000	0.4334(a)
	42 1,1,2-Trichloroethane	85	13.438	13.438	(1.285)	2318	0.50000	0.4459(a)
	43 2-Hexanone	43	13.468	13.468	(0.875)	3007	0.50000	0.5248
	44 1,3-Dichloropropane	76	13.843	13.843	(0.899)	6069	0.50000	0.4742(a)
	45 Tetrachloroethene	166	14.148	14.148	(0.919)	3907	0.50000	0.4800(a)
	46 Dibromochloromethane	129	14.326	14.326	(0.931)	4648	0.50000	0.4333(a)
	47 1,2-Dibromoethane	107	14.681	14.681	(1.404)	4683	0.50000	0.4484(a)
*	48 Chlorobenzene-d5	117	15.391	15.391	(1.000)	1196784	50.0000	
	49 Chlorobenzene	112	15.450	15.450	(1.004)	11232	0.50000	0.5088
	50 1,1,1,2-Tetrachloroethane	131	15.509	15.509	(1.008)	3818	0.50000	0.4687(a)
	51 Ethylbenzene	91	15.569	15.569	(1.012)	17115	0.50000	0.4947(a)
	52 m,p-Xylenes	106	15.707	15.707	(1.021)	12035	1.00000	0.9575
	53 o-Xylene	106	16.466	16.466	(1.070)	5511	0.50000	0.4472(a)
	54 Styrene	104	16.486	16.486	(1.071)	8997	0.50000	0.4281(a)
	55 Bromoform	173	16.999	16.999	(1.104)	3584	0.50000	0.4686(a)
	56 Isopropylbenzene	105	17.107	17.107	(0.869)	12678	0.50000	0.4318(a)
	57 1,1,2,2-Tetrachloroethane	83	17.265	17.265	(0.877)	5312	0.50000	0.4694(a)
$	58 Bromofluorobenzene	95	17.492	17.492	(0.889)	551272	50.0000	49.8695
	59 1,2,3-Trichloropropane	110	17.541	17.541	(0.891)	793	0.50000	0.3621(a)
	60 Propylbenzene	91	17.837	17.837	(0.906)	19671	0.50000	0.5052
	61 Bromobenzene	156	17.866	17.866	(0.908)	4738	0.50000	0.4722(a)
	62 1,3,5-Trimethylbenzene	105	18.133	18.133	(0.921)	11136	0.50000	0.4631(a)
	63 2-Chlorotoluene	91	18.143	18.143	(0.922)	13066	0.50000	0.5119

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL07.D
Report Date: 22-Nov-2004 08:35

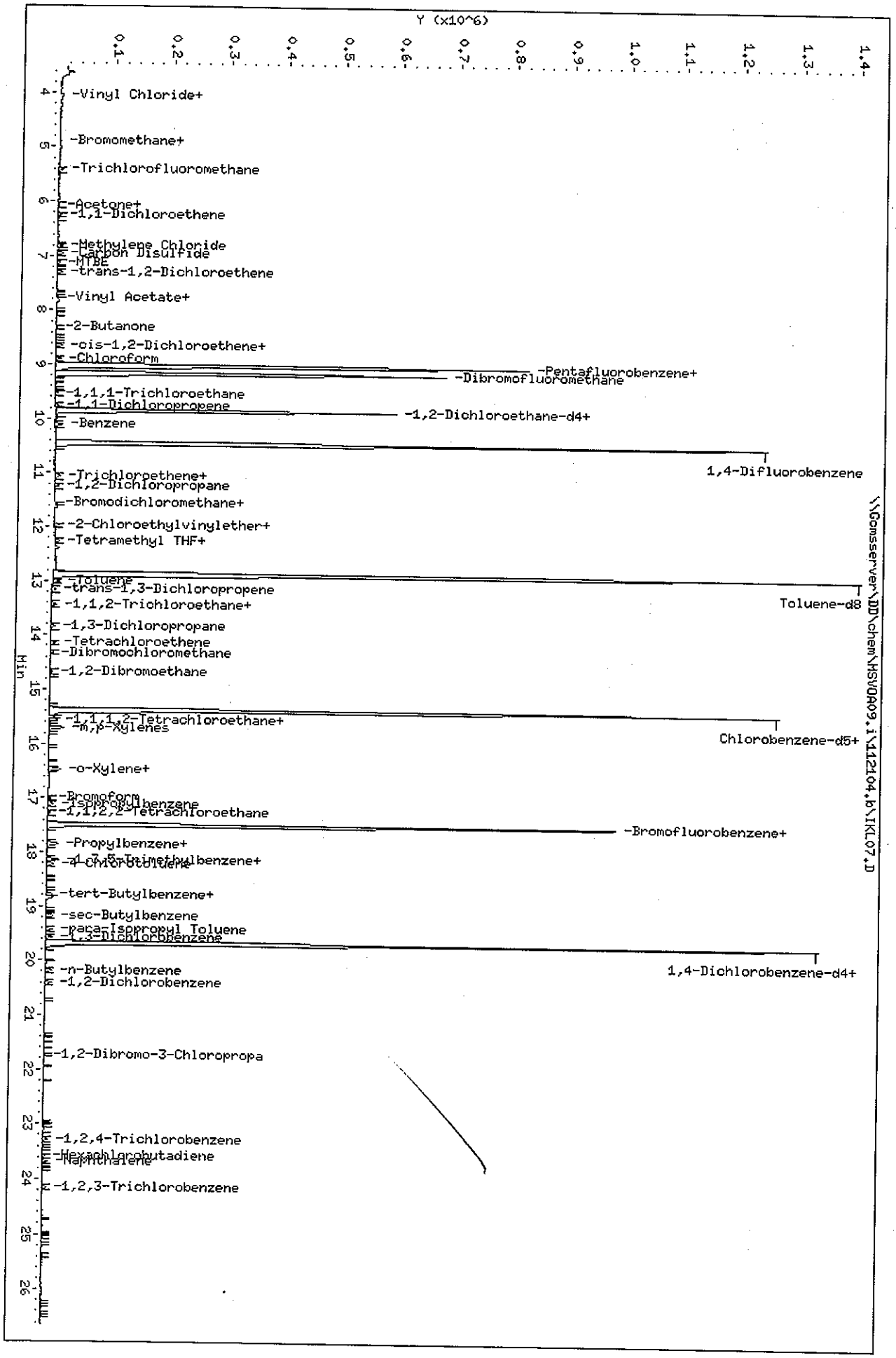
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.221	18.221	(0.926)	12910	0.50000	0.5295
65 tert-Butylbenzene	119	18.784	18.784	(0.954)	9119	0.50000	0.4382(a)
66 1,2,4-Trimethylbenzene	105	18.843	18.843	(0.957)	11858	0.50000	0.4686(a)
67 sec-Butylbenzene	105	19.188	19.188	(0.975)	16135	0.50000	0.4757(a)
68 para-Isopropyl Toluene	119	19.425	19.425	(0.987)	11070	0.50000	0.4298(a)
69 1,3-Dichlorobenzene	146	19.563	19.563	(0.994)	7226	0.50000	0.4252(a)
* 70 1,4-Dichlorobenzene-d4	152	19.681	19.681	(1.000)	570881	50.0000	
71 1,4-Dichlorobenzene	146	19.740	19.740	(1.003)	8850	0.50000	0.4955(a)
72 n-Butylbenzene	91	20.184	20.184	(1.026)	11561	0.50000	0.4401(a)
73 1,2-Dichlorobenzene	146	20.421	20.421	(1.038)	8250	0.50000	0.4923(a)
74 1,2-Dibromo-3-Chloropropane	75	21.732	21.732	(1.104)	544	0.50000	0.3643(a)
75 1,2,4-Trichlorobenzene	180	23.281	23.281	(1.183)	4831	0.50000	0.4446(a)
76 Hexachlorobutadiene	225	23.577	23.577	(1.198)	2018	0.50000	0.4288(a)
77 Naphthalene	128	23.685	23.685	(1.203)	10494	0.50000	0.4468(a)
78 1,2,3-Trichlorobenzene	180	24.149	24.149	(1.227)	4575	0.50000	0.4553(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSVOA09.i\112104.b\IKL07.D
Date : 21-NOV-2004 17:13
Client ID: BYNA P&T
Sample Info: ICAL,04SS393,0.002/1000,04NS2167A,0.002/1000,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA09.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Report Date: 22-Nov-2004 08:35

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Lab Smp Id:
Inj Date : 21-NOV-2004 17:48
Operator : BO
Smp Info : ICAL,04SS393,0.005/500,04WS2167A,0.010/500,
Misc Info : 04WS2204A,0.0025/500,5PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:35 target
Cal Date : 21-NOV-2004 17:13
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 19-OCT-2004 13:26
Inst ID: MSVOA09.i
Quant Type: ISTD
Cal File: IKL07.D
Calibration Sample, Level: 6
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.684	3.684	(0.408)	37645	5.00000	4.9930
2 Chloromethane	50	4.059	4.059	(0.450)	49973	5.00000	5.5412
3 Vinyl Chloride	62	4.236	4.236	(0.470)	31712	5.00000	5.7103
4 Bromomethane	94	4.877	4.877	(0.541)	15127	5.00000	4.1208(M) pc 11/22/04
5 Chloroethane	64	4.995	4.995	(0.554)	21706	5.00000	5.5729
6 Trichlorofluoromethane	101	5.420	5.420	(0.601)	54737	5.00000	5.1648
7 Acetone	43	5.932	5.932	(0.658)	13138	5.00000	5.3606
8 Freon 113	101	6.061	6.061	(0.672)	32598	5.00000	5.0316
9 1,1-Dichloroethene	96	6.238	6.238	(0.692)	34175	5.00000	4.9825
10 Methylene Chloride	84	6.820	6.820	(0.756)	52088	5.00000	5.4581
11 Carbon Disulfide	76	6.948	6.948	(0.770)	145385	5.00000	5.0903
12 MTBE	73	7.116	7.116	(0.789)	89160	5.00000	4.9736
13 trans-1,2-Dichloroethene	96	7.293	7.293	(0.809)	43338	5.00000	5.2981
14 Vinyl Acetate	43	7.757	7.757	(0.860)	80392	5.00000	4.7473
15 1,1-Dichloroethane	63	7.826	7.826	(0.868)	81054	5.00000	5.1288
16 2-Butanone	43	8.319	8.319	(0.922)	19196	5.00000	4.8862

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Report Date: 22-Nov-2004 08:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.654	8.654	(0.960)	48097	5.00000	5.2622
	18 2,2-Dichloropropane	77	8.654	8.654	(0.960)	51069	5.00000	5.2858
	19 Chloroform	83	8.881	8.881	(0.985)	78536	5.00000	4.9971
*	20 Pentafluorobenzene	168	9.019	9.019	(1.000)	928333	50.0000	
	21 Bromochloromethane	128	9.078	9.078	(1.007)	27708	5.00000	4.9367
$	22 Dibromofluoromethane	113	9.157	9.157	(1.015)	628560	50.0000	50.1812
	23 1,1,1-Trichloroethane	97	9.532	9.532	(1.057)	48493	5.00000	4.8841
	24 1,1-Dichloropropene	75	9.759	9.759	(0.933)	51789	5.00000	4.9624
$	25 1,2-Dichloroethane-d4	65	9.858	9.858	(0.942)	525858	50.0000	49.2260
	26 Carbon Tetrachloride	117	9.936	9.936	(0.950)	43944	5.00000	4.7960
	27 1,2-Dichloroethane	62	9.986	9.986	(0.955)	52656	5.00000	5.1060
	28 Benzene	78	10.114	10.114	(0.967)	165548	5.00000	5.3936
*	29 1,4-Difluorobenzene	114	10.459	10.459	(1.000)	1446322	50.0000	
	30 Trichloroethene	95	11.041	11.041	(1.056)	46539	5.00000	5.1496
$	31 Trifluorotoluene	146	11.080	11.080	(1.059)	50904	5.00000	4.7391
	32 1,2-Dichloropropane	63	11.238	11.238	(1.074)	47724	5.00000	5.0393
	33 Bromodichloromethane	83	11.564	11.564	(1.106)	58339	5.00000	5.0504
	34 Dibromomethane	93	11.623	11.623	(1.111)	37742	5.00000	4.8993
	35 2-Chloroethylvinylether	63	11.968	11.968	(1.144)	27782	5.00000	4.5006
	36 4-Methyl-2-Pentanone	43	12.067	12.067	(1.154)	39035	5.00000	4.5988
	37 Tetramethyl THF	43	12.264	12.264	(1.173)	88980	5.00000	5.1676
	38 cis-1,3-Dichloropropene	75	12.392	12.392	(1.185)	69364	5.00000	5.0065
$	39 Toluene-d8	98	12.885	12.885	(1.232)	1321068	50.0000	48.0191
	40 Toluene	92	13.013	13.013	(1.244)	93369	5.00000	5.2954
	41 trans-1,3-Dichloropropene	75	13.161	13.161	(1.258)	56839	5.00000	4.8176
	42 1,1,2-Trichloroethane	85	13.438	13.438	(1.285)	25054	5.00000	5.1429
	43 2-Hexanone	43	13.447	13.447	(0.874)	25787	5.00000	4.7692
	44 1,3-Dichloropropane	76	13.832	13.832	(0.899)	63725	5.00000	5.2761
	45 Tetrachloroethene	166	14.148	14.148	(0.920)	39311	5.00000	5.1171
	46 Dibromochloromethane	129	14.315	14.315	(0.931)	50751	5.00000	5.0135
	47 1,2-Dibromoethane	107	14.680	14.680	(1.404)	48850	5.00000	4.9912
*	48 Chlorobenzene-d5	117	15.380	15.380	(1.000)	1129536	50.0000	
	49 Chlorobenzene	112	15.449	15.449	(1.004)	106358	5.00000	5.1055
	50 1,1,1,2-Tetrachloroethane	131	15.499	15.499	(1.008)	39366	5.00000	5.1207
	51 Ethylbenzene	91	15.568	15.568	(1.012)	174990	5.00000	5.3601
	52 m,p-Xylenes	106	15.706	15.706	(1.021)	124267	10.0000	10.4761
	53 o-Xylene	106	16.465	16.465	(1.071)	60759	5.00000	5.2245
	54 Styrene	104	16.485	16.485	(1.072)	101476	5.00000	5.1163
	55 Bromoform	173	17.008	17.008	(1.106)	33517	5.00000	4.6440
	56 Isopropylbenzene	105	17.106	17.106	(0.869)	146129	5.00000	4.8411
	57 1,1,2,2-Tetrachloroethane	83	17.274	17.274	(0.878)	55530	5.00000	4.7730
$	58 Bromofluorobenzene	95	17.501	17.501	(0.889)	527487	50.0000	46.4074
	59 1,2,3-Trichloropropane	110	17.530	17.530	(0.891)	11122	5.00000	4.9397
	60 Propylbenzene	91	17.836	17.836	(0.906)	193273	5.00000	4.8274
	61 Bromobenzene	156	17.866	17.866	(0.908)	50520	5.00000	4.8966
	62 1,3,5-Trimethylbenzene	105	18.122	18.122	(0.921)	123108	5.00000	4.9796
	63 2-Chlorotoluene	91	18.142	18.142	(0.922)	131549	5.00000	5.0125

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL08.D
Report Date: 22-Nov-2004 08:35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 4-Chlorotoluene	91	18.221	18.221	(0.926)	123998	5.00000	4.9463
	65 tert-Butylbenzene	119	18.783	18.783	(0.954)	103151	5.00000	4.8208
	66 1,2,4-Trimethylbenzene	105	18.842	18.842	(0.957)	122081	5.00000	4.6920
	67 sec-Butylbenzene	105	19.187	19.187	(0.975)	159307	5.00000	4.5681
	68 para-Isopropyl Toluene	119	19.424	19.424	(0.987)	132179	5.00000	4.9910
	69 1,3-Dichlorobenzene	146	19.562	19.562	(0.994)	84215	5.00000	4.8200
*	70 1,4-Dichlorobenzene-d4	152	19.680	19.680	(1.000)	587001	50.0000	
	71 1,4-Dichlorobenzene	146	19.739	19.739	(1.003)	88728	5.00000	4.8320
	72 n-Butylbenzene	91	20.183	20.183	(1.026)	128045	5.00000	4.7408
	73 1,2-Dichlorobenzene	146	20.420	20.420	(1.038)	80026	5.00000	4.6447
	74 1,2-Dibromo-3-Chloropropane	75	21.732	21.732	(1.104)	7002	5.00000	4.5612
	75 1,2,4-Trichlorobenzene	180	23.280	23.280	(1.183)	50898	5.00000	4.5565
	76 Hexachlorobutadiene	225	23.586	23.586	(1.198)	22549	5.00000	4.6605
	77 Naphthalene	128	23.684	23.684	(1.203)	98857	5.00000	4.0940
	78 1,2,3-Trichlorobenzene	180	24.148	24.148	(1.227)	46584	5.00000	4.5091

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\112104.b\IKL08.D
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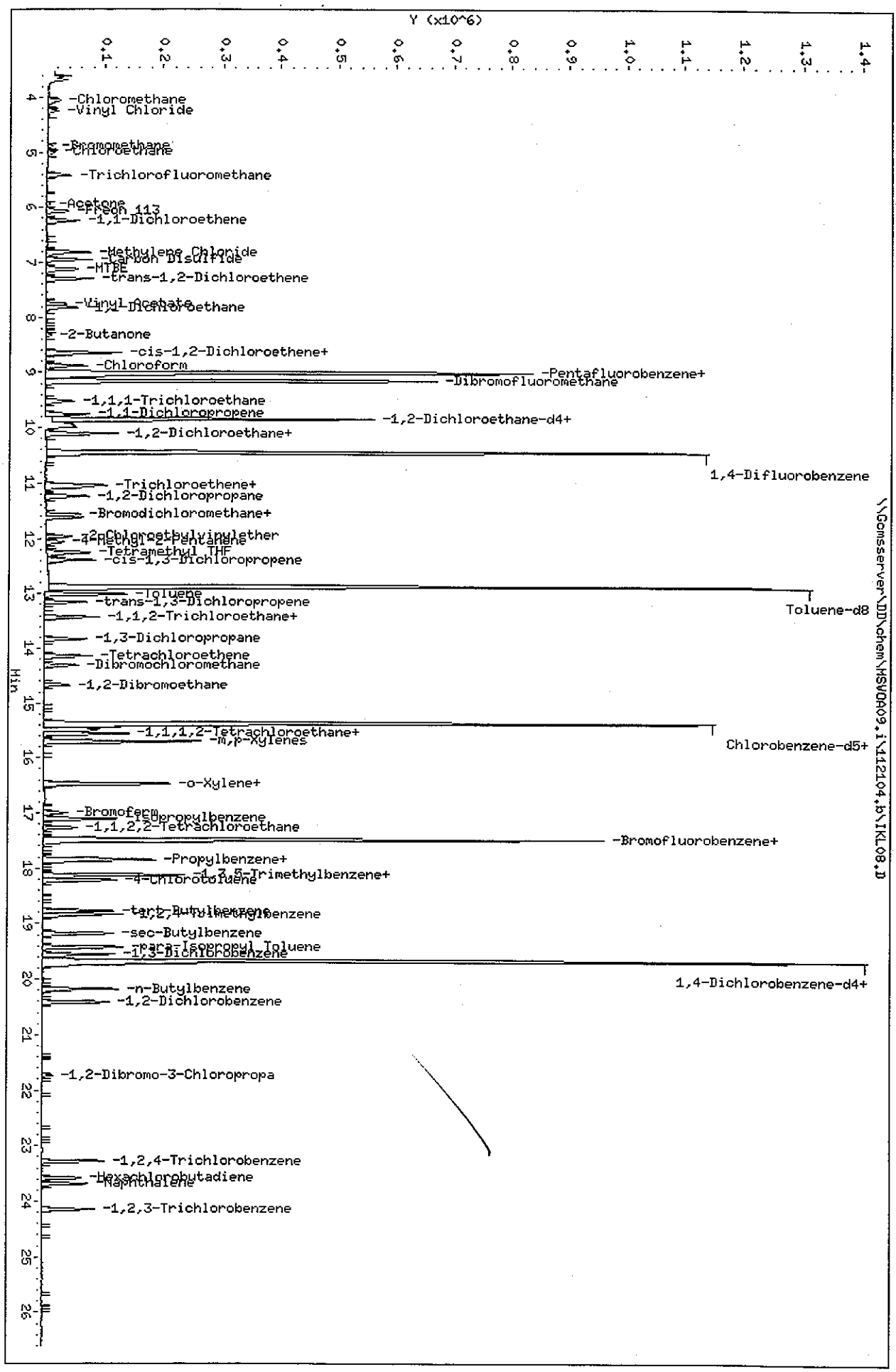
Sample Info: ICAL,04SS393,0.005/500,04WS2167A,0.010/500,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL09.D
Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 18:22 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICAL,04SS393,0.002/100,04WS2167A,0.004/100,
Misc Info : 04WS2204A,0.001/100,10PPB, NP NL
Comment :
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Meth Date : 22-Nov-2004 08:35 target Quant Type: ISTD
Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.689	3.689	(0.409)	67430	10.0000	8.7087
2 Chloromethane	50	4.054	4.054	(0.449)	97786	10.0000	10.5583
3 Vinyl Chloride	62	4.241	4.241	(0.470)	57713	10.0000	10.1195
4 Bromomethane	94	4.882	4.882	(0.541)	32433	10.0000	8.6032
5 Chloroethane	64	4.990	4.990	(0.553)	40078	10.0000	10.0197(M)
6 Trichlorofluoromethane	101	5.415	5.415	(0.600)	99822	10.0000	9.1716
7 Acetone	43	5.927	5.927	(0.657)	28956	10.0000	11.5046
8 Freon 113	101	6.065	6.065	(0.672)	60063	10.0000	9.0276
9 1,1-Dichloroethene	96	6.243	6.243	(0.692)	70175	10.0000	9.9625
10 Methylene Chloride	84	6.815	6.815	(0.755)	108501	10.0000	11.0710
11 Carbon Disulfide	76	6.953	6.953	(0.771)	291223	10.0000	9.9288
12 MTBE	73	7.121	7.121	(0.789)	194854	10.0000	10.5842
13 trans-1,2-Dichloroethene	96	7.298	7.298	(0.809)	87790	10.0000	10.4506
14 Vinyl Acetate	43	7.762	7.762	(0.860)	180738	10.0000	10.3928
15 1,1-Dichloroethane	63	7.821	7.821	(0.867)	175613	10.0000	10.8205
16 2-Butanone	43	8.314	8.314	(0.921)	43109	10.0000	10.6851

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL09.D
Report Date: 22-Nov-2004 08:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.659	8.659	(0.960)	97448	10.0000	10.3817
	18 2,2-Dichloropropane	77	8.649	8.649	(0.958)	98739	10.0000	9.9515
	19 Chloroform	83	8.886	8.886	(0.985)	170022	10.0000	10.5342
*	20 Pentafluorobenzene	168	9.024	9.024	(1.000)	953361	50.0000	
	21 Bromochloromethane	128	9.083	9.083	(1.007)	60600	10.0000	10.5137
$	22 Dibromofluoromethane	113	9.162	9.162	(1.015)	633234	50.0000	49.2272
	23 1,1,1-Trichloroethane	97	9.527	9.527	(1.056)	99879	10.0000	9.7955
	24 1,1-Dichloropropene	75	9.764	9.764	(0.934)	104201	10.0000	9.9053
$	25 1,2-Dichloroethane-d4	65	9.853	9.853	(0.942)	555856	50.0000	51.6209
	26 Carbon Tetrachloride	117	9.941	9.941	(0.951)	88142	10.0000	9.5433
	27 1,2-Dichloroethane	62	9.991	9.991	(0.956)	110623	10.0000	10.6418
	28 Benzene	78	10.109	10.109	(0.967)	336924	10.0000	10.8899
*	29 1,4-Difluorobenzene	114	10.454	10.454	(1.000)	1457902	50.0000	
	30 Trichloroethene	95	11.036	11.036	(1.056)	91641	10.0000	10.0597
$	31 Trifluorotoluene	146	11.075	11.075	(1.059)	100881	10.0000	9.3173
	32 1,2-Dichloropropane	63	11.243	11.243	(1.075)	100060	10.0000	10.4818
	33 Bromodichloromethane	83	11.569	11.569	(1.107)	123713	10.0000	10.6248
	34 Dibromomethane	93	11.628	11.628	(1.112)	80304	10.0000	10.3415
	35 2-Chloroethylvinylether	63	11.973	11.973	(1.145)	65097	10.0000	10.4619
	36 4-Methyl-2-Pentanone	43	12.072	12.072	(1.155)	89947	10.0000	10.5127
	37 Tetramethyl THF	43	12.269	12.269	(1.174)	181701	10.0000	10.4688
	38 cis-1,3-Dichloropropene	75	12.397	12.397	(1.186)	147242	10.0000	10.5432
$	39 Toluene-d8	98	12.880	12.880	(1.232)	1388236	50.0000	50.0598
	40 Toluene	92	13.008	13.008	(1.244)	190703	10.0000	10.7298
	41 trans-1,3-Dichloropropene	75	13.156	13.156	(1.258)	121875	10.0000	10.2480
	42 1,1,2-Trichloroethane	85	13.433	13.433	(1.285)	52042	10.0000	10.5980
	43 2-Hexanone	43	13.452	13.452	(0.874)	56761	10.0000	10.0864
	44 1,3-Dichloropropane	76	13.837	13.837	(0.899)	131776	10.0000	10.4830
	45 Tetrachloroethene	166	14.152	14.152	(0.920)	74451	10.0000	9.3116
	46 Dibromochloromethane	129	14.320	14.320	(0.931)	112865	10.0000	10.7126
	47 1,2-Dibromoethane	107	14.675	14.675	(1.404)	103366	10.0000	10.4775
*	48 Chlorobenzene-d5	117	15.385	15.385	(1.000)	1175604	50.0000	
	49 Chlorobenzene	112	15.454	15.454	(1.004)	238137	10.0000	10.9833
	50 1,1,1,2-Tetrachloroethane	131	15.504	15.504	(1.008)	83008	10.0000	10.3746
	51 Ethylbenzene	91	15.563	15.563	(1.012)	327709	10.0000	9.6447
	52 m,p-Xylenes	106	15.711	15.711	(1.021)	252421	20.0000	20.4461
	53 o-Xylene	106	16.470	16.470	(1.071)	125252	10.0000	10.3481
	54 Styrene	104	16.490	16.490	(1.072)	215111	10.0000	10.4206
	55 Bromoform	173	17.003	17.003	(1.105)	76564	10.0000	10.1929
	56 Isopropylbenzene	105	17.111	17.111	(0.869)	291579	10.0000	10.3819
	57 1,1,2,2-Tetrachloroethane	83	17.269	17.269	(0.877)	124281	10.0000	11.4811
$	58 Bromofluorobenzene	95	17.496	17.496	(0.889)	559640	50.0000	52.9169
	59 1,2,3-Trichloropropane	110	17.535	17.535	(0.891)	23658	10.0000	11.2931
	60 Propylbenzene	91	17.841	17.841	(0.906)	410164	10.0000	11.0106
	61 Bromobenzene	156	17.861	17.861	(0.907)	108334	10.0000	11.2853
	62 1,3,5-Trimethylbenzene	105	18.127	18.127	(0.921)	250840	10.0000	10.9049
	63 2-Chlorotoluene	91	18.137	18.137	(0.921)	268274	10.0000	10.9866

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL09.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.226	18.226	(0.926)	249121	10.0000	10.6805
65 tert-Butylbenzene	119	18.778	18.778	(0.954)	219437	10.0000	11.0222
66 1,2,4-Trimethylbenzene	105	18.847	18.847	(0.957)	271782	10.0000	11.2264
67 sec-Butylbenzene	105	19.182	19.182	(0.974)	334561	10.0000	10.3107
68 para-Isopropyl Toluene	119	19.429	19.429	(0.987)	266519	10.0000	10.8160
69 1,3-Dichlorobenzene	146	19.567	19.567	(0.994)	186947	10.0000	11.4997
* 70 1,4-Dichlorobenzene-d4	152	19.685	19.685	(1.000)	546171	50.0000	
71 1,4-Dichlorobenzene	146	19.744	19.744	(1.003)	182663	10.0000	10.6912
72 n-Butylbenzene	91	20.188	20.188	(1.026)	267433	10.0000	10.6419
73 1,2-Dichlorobenzene	146	20.415	20.415	(1.037)	178447	10.0000	11.1314
74 1,2-Dibromo-3-Chloropropane	75	21.737	21.737	(1.104)	15603	10.0000	10.9239
75 1,2,4-Trichlorobenzene	180	23.285	23.285	(1.183)	112997	10.0000	10.8719
76 Hexachlorobutadiene	225	23.581	23.581	(1.198)	47344	10.0000	10.5167
77 Naphthalene	128	23.689	23.689	(1.203)	233922	10.0000	10.4117
78 1,2,3-Trichlorobenzene	180	24.153	24.153	(1.227)	103434	10.0000	10.7604

QC Flag Legend

M - Compound response manually integrated.

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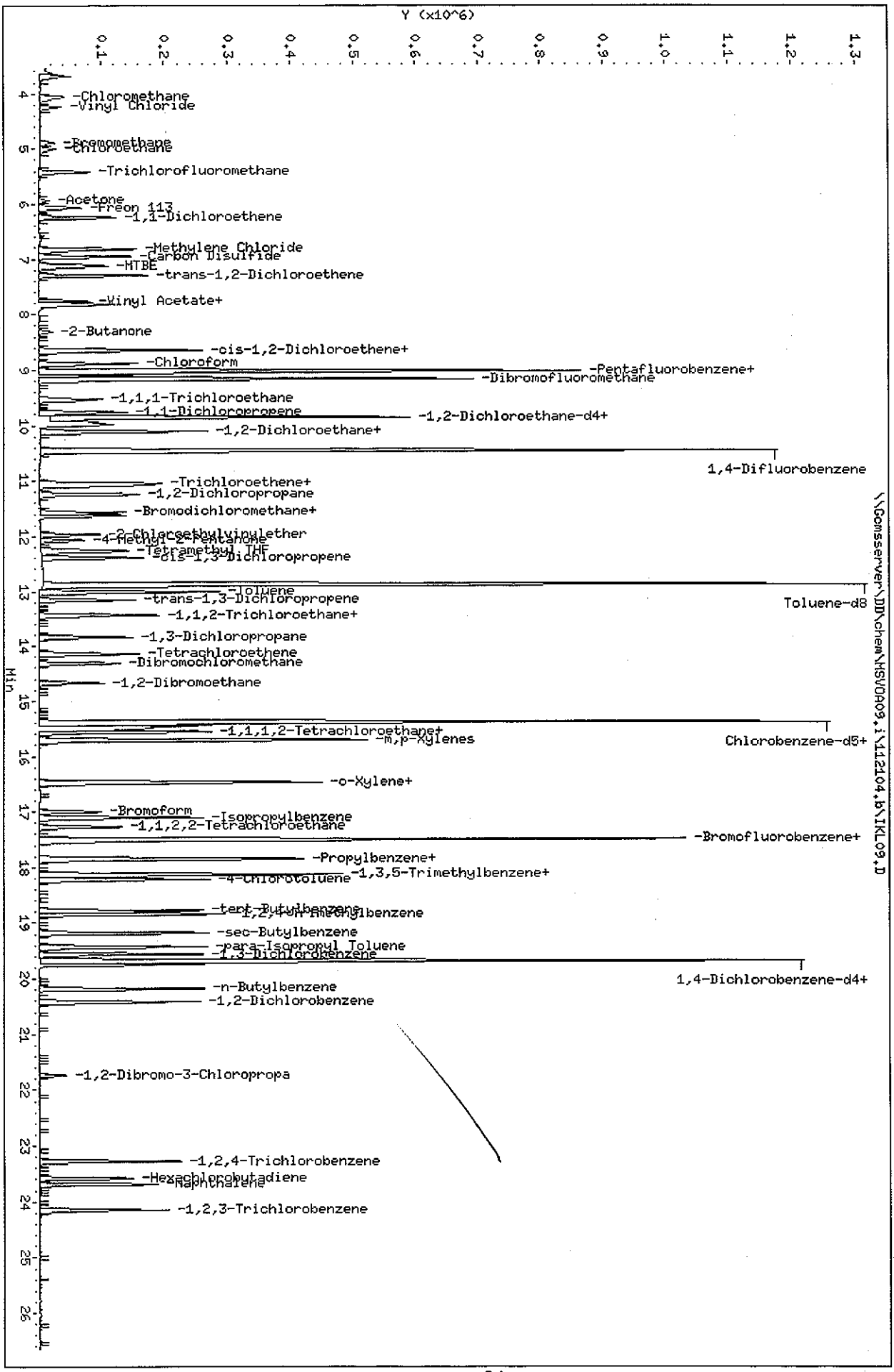
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



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Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL10.D
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Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.686	3.686	(0.409)	169929	20.0000	22.5359
2 Chloromethane	50	4.051	4.051	(0.449)	187734	20.0000	20.8147
3 Vinyl Chloride	62	4.238	4.238	(0.470)	115614	20.0000	20.8164
4 Bromomethane	94	4.879	4.879	(0.541)	67911	20.0000	18.4980
5 Chloroethane	64	4.997	4.997	(0.554)	84699	20.0000	21.7439
6 Trichlorofluoromethane	101	5.421	5.421	(0.601)	224023	20.0000	21.1359
7 Acetone	43	5.934	5.934	(0.658)	49686	20.0000	20.2710
8 Freon 113	101	6.063	6.063	(0.672)	134647	20.0000	20.7813
9 1,1-Dichloroethene	96	6.240	6.240	(0.692)	133722	20.0000	19.4938
10 Methylene Chloride	84	6.822	6.822	(0.756)	200491	20.0000	21.0067
11 Carbon Disulfide	76	6.950	6.950	(0.770)	576145	20.0000	20.1704
12 MTBE	73	7.118	7.118	(0.789)	366016	20.0000	20.4154
13 trans-1,2-Dichloroethene	96	7.295	7.295	(0.809)	161293	20.0000	19.7161
14 Vinyl Acetate	43	7.759	7.759	(0.860)	367813	20.0000	21.7180
15 1,1-Dichloroethane	63	7.818	7.818	(0.867)	323490	20.0000	20.4674
16 2-Butanone	43	8.311	8.311	(0.921)	79943	20.0000	20.3470

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL10.D
Report Date: 22-Nov-2004 08:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.656	8.656	(0.960)	197351	20.0000	21.5896
	18 2,2-Dichloropropane	77	8.656	8.656	(0.960)	205587	20.0000	21.2767
	19 Chloroform	83	8.883	8.883	(0.985)	320994	20.0000	20.4221
*	20 Pentafluorobenzene	168	9.021	9.021	(1.000)	928430	50.0000	
	21 Bromochloromethane	128	9.080	9.080	(1.007)	113894	20.0000	20.2905
$	22 Dibromofluoromethane	113	9.169	9.169	(1.016)	634281	50.0000	50.6326
	23 1,1,1-Trichloroethane	97	9.534	9.534	(1.057)	207484	20.0000	20.8953
	24 1,1-Dichloropropene	75	9.761	9.761	(0.933)	203269	20.0000	18.6928
$	25 1,2-Dichloroethane-d4	65	9.859	9.859	(0.942)	546619	50.0000	49.1081
	26 Carbon Tetrachloride	117	9.938	9.938	(0.950)	186937	20.0000	19.5803
	27 1,2-Dichloroethane	62	9.988	9.988	(0.955)	218254	20.0000	20.3114
	28 Benzene	78	10.116	10.116	(0.967)	595199	20.0000	18.6105
*	29 1,4-Difluorobenzene	114	10.461	10.461	(1.000)	1507034	50.0000	
	30 Trichloroethene	95	11.033	11.033	(1.055)	187604	20.0000	19.9225
$	31 Trifluorotoluene	146	11.082	11.082	(1.059)	213015	20.0000	19.0327
	32 1,2-Dichloropropane	63	11.240	11.240	(1.074)	190628	20.0000	19.3182
	33 Bromodichloromethane	83	11.566	11.566	(1.106)	241883	20.0000	20.0962
	34 Dibromomethane	93	11.625	11.625	(1.111)	156465	20.0000	19.4926
	35 2-Chloroethylvinylether	63	11.970	11.970	(1.144)	124290	20.0000	19.3237
	36 4-Methyl-2-Pentanone	43	12.069	12.069	(1.154)	178177	20.0000	20.1459
	37 Tetramethyl THF	43	12.266	12.266	(1.173)	350387	20.0000	19.5296
	38 cis-1,3-Dichloropropene	75	12.394	12.394	(1.185)	278914	20.0000	19.3204
$	39 Toluene-d8	98	12.887	12.887	(1.232)	1410714	50.0000	49.2119
	40 Toluene	92	13.015	13.015	(1.244)	353865	20.0000	19.2610
	41 trans-1,3-Dichloropropene	75	13.153	13.153	(1.257)	248913	20.0000	20.2477
	42 1,1,2-Trichloroethane	85	13.439	13.439	(1.285)	101333	20.0000	19.9631
	43 2-Hexanone	43	13.449	13.449	(0.874)	115687	20.0000	19.8314
	44 1,3-Dichloropropane	76	13.844	13.844	(0.900)	252283	20.0000	19.3606
	45 Tetrachloroethene	166	14.150	14.150	(0.920)	157072	20.0000	18.9511
	46 Dibromochloromethane	129	14.317	14.317	(0.931)	214017	20.0000	19.5960
	47 1,2-Dibromoethane	107	14.672	14.672	(1.403)	199497	20.0000	19.5625
*	48 Chlorobenzene-d5	117	15.382	15.382	(1.000)	1218651	50.0000	
	49 Chlorobenzene	112	15.451	15.451	(1.004)	428613	20.0000	19.0701
	50 1,1,1,2-Tetrachloroethane	131	15.501	15.501	(1.008)	159601	20.0000	19.2429
	51 Ethylbenzene	91	15.570	15.570	(1.012)	676889	20.0000	19.2176
	52 m,p-Xylenes	106	15.708	15.708	(1.021)	529869	40.0000	41.4034
	53 o-Xylene	106	16.467	16.467	(1.071)	251057	20.0000	20.0093
	54 Styrene	104	16.487	16.487	(1.072)	424140	20.0000	19.8209
	55 Bromoform	173	17.000	17.000	(1.105)	145411	20.0000	18.6746
	56 Isopropylbenzene	105	17.108	17.108	(0.869)	616052	20.0000	20.8772
	57 1,1,2,2-Tetrachloroethane	83	17.276	17.276	(0.878)	230226	20.0000	20.2428
$	58 Bromofluorobenzene	95	17.493	17.493	(0.889)	544347	50.0000	48.9887
	59 1,2,3-Trichloropropane	110	17.532	17.532	(0.891)	44763	20.0000	20.3371
	60 Propylbenzene	91	17.838	17.838	(0.906)	767504	20.0000	19.6097
	61 Bromobenzene	156	17.868	17.868	(0.908)	202129	20.0000	20.0406
	62 1,3,5-Trimethylbenzene	105	18.134	18.134	(0.921)	483983	20.0000	20.0258
	63 2-Chlorotoluene	91	18.144	18.144	(0.922)	508569	20.0000	19.8230

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL10.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.223	18.223	(0.926)	506701	20.0000	20.6762
65 tert-Butylbenzene	119	18.785	18.785	(0.954)	423213	20.0000	20.2328
66 1,2,4-Trimethylbenzene	105	18.844	18.844	(0.957)	522603	20.0000	20.5461
67 sec-Butylbenzene	105	19.189	19.189	(0.975)	664139	20.0000	19.4809
68 para-Isopropyl Toluene	119	19.426	19.426	(0.987)	525887	20.0000	20.3127
69 1,3-Dichlorobenzene	146	19.564	19.564	(0.994)	348976	20.0000	20.4314
* 70 1,4-Dichlorobenzene-d4	152	19.682	19.682	(1.000)	573844	50.0000	
71 1,4-Dichlorobenzene	146	19.741	19.741	(1.003)	355638	20.0000	19.8117
72 n-Butylbenzene	91	20.185	20.185	(1.026)	556657	20.0000	21.0827
73 1,2-Dichlorobenzene	146	20.422	20.422	(1.038)	315887	20.0000	18.7545
74 1,2-Dibromo-3-Chloropropane	75	21.734	21.734	(1.104)	31604	20.0000	21.0594
75 1,2,4-Trichlorobenzene	180	23.282	23.282	(1.183)	210518	20.0000	19.2781
76 Hexachlorobutadiene	225	23.588	23.588	(1.198)	92766	20.0000	19.6128
77 Naphthalene	128	23.686	23.686	(1.203)	497645	20.0000	21.0818
78 1,2,3-Trichlorobenzene	180	24.150	24.150	(1.227)	205657	20.0000	20.3632

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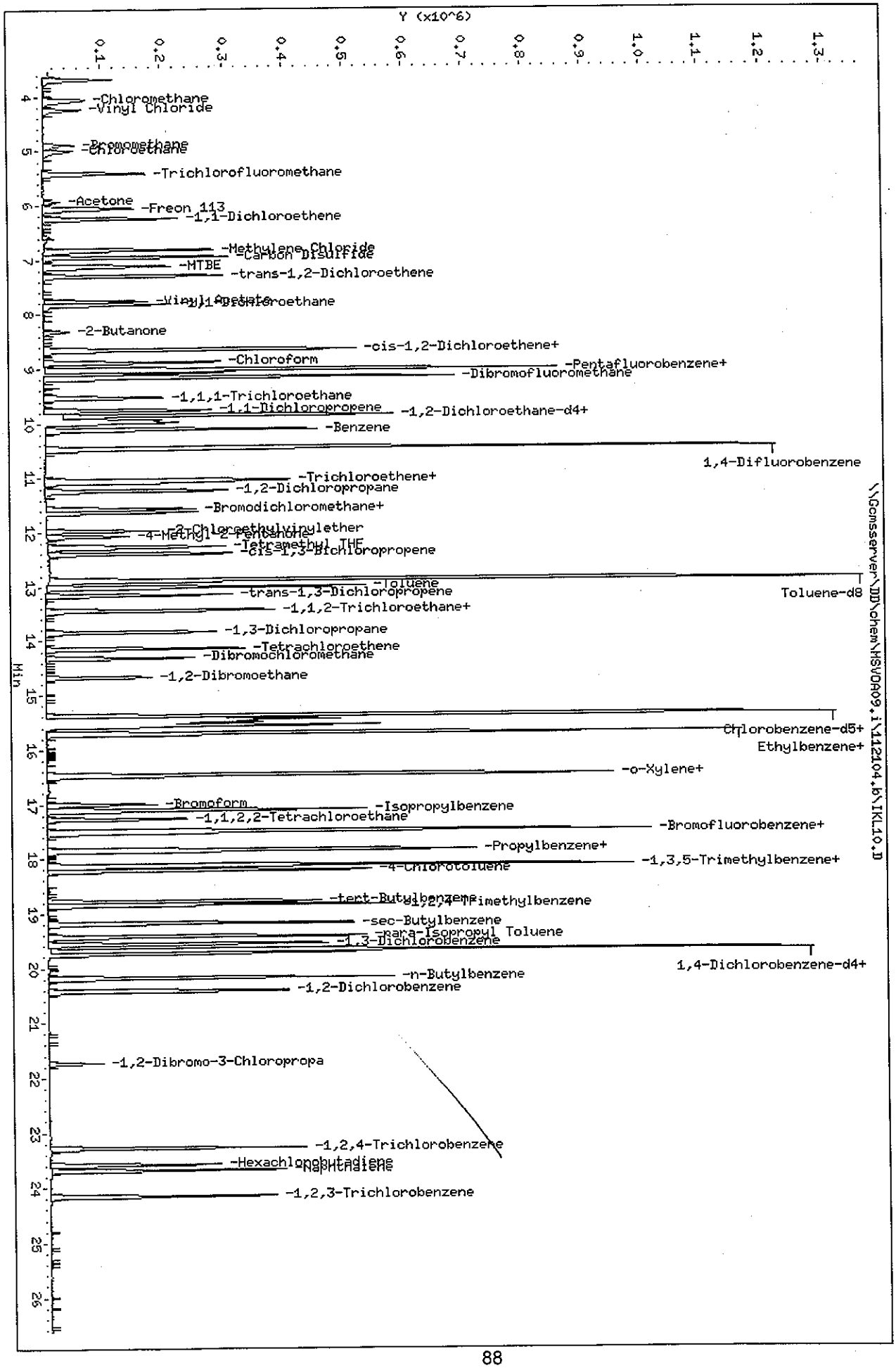
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



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Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL11.D
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Operator : BO Inst ID: MSVOA09.i
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Meth Date : 22-Nov-2004 08:36 target Quant Type: ISTD
Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.680	3.680	(0.408)	440292	50.0000	54.6078
2 Chloromethane	50	4.055	4.055	(0.449)	450080	50.0000	46.6683
3 Vinyl Chloride	62	4.242	4.242	(0.470)	270647	50.0000	45.5726
4 Bromomethane	94	4.873	4.873	(0.540)	186689	50.0000	47.5564
5 Chloroethane	64	4.992	4.992	(0.553)	198955	50.0000	47.7661
6 Trichlorofluoromethane	101	5.416	5.416	(0.600)	612902	50.0000	54.0785
7 Acetone	43	5.929	5.929	(0.657)	119630	50.0000	45.6443
8 Freon 113	101	6.057	6.057	(0.671)	349171	50.0000	50.3988
9 1,1-Dichloroethene	96	6.244	6.244	(0.692)	367774	50.0000	50.1397
10 Methylene Chloride	84	6.816	6.816	(0.755)	491324	50.0000	48.1435
11 Carbon Disulfide	76	6.954	6.954	(0.771)	1444711	50.0000	47.3008
12 MTBE	73	7.122	7.122	(0.789)	961813	50.0000	50.1713
13 trans-1,2-Dichloroethene	96	7.299	7.299	(0.809)	425989	50.0000	48.6979
14 Vinyl Acetate	43	7.763	7.763	(0.860)	918422	50.0000	50.7156
15 1,1-Dichloroethane	63	7.822	7.822	(0.867)	820449	50.0000	48.5466
16 2-Butanone	43	8.305	8.305	(0.920)	205940	50.0000	49.0193

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL11.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.651	8.651	(0.958)	470850	50.0000	48.1719
18 2,2-Dichloropropane	77	8.651	8.651	(0.958)	505211	50.0000	48.8975
19 Chloroform	83	8.887	8.887	(0.985)	813792	50.0000	48.4199
* 20 Pentafluorobenzene	168	9.025	9.025	(1.000)	992759	50.0000	
21 Bromochloromethane	128	9.084	9.084	(1.007)	302365	50.0000	50.3767
$ 22 Dibromofluoromethane	113	9.163	9.163	(1.015)	661395	50.0000	49.3759
23 1,1,1-Trichloroethane	97	9.528	9.528	(1.056)	528423	50.0000	49.7681
24 1,1-Dichloropropene	75	9.765	9.765	(0.934)	555509	50.0000	51.7295
$ 25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.942)	561695	50.0000	51.0991
26 Carbon Tetrachloride	117	9.933	9.933	(0.950)	478112	50.0000	50.7105
27 1,2-Dichloroethane	62	9.992	9.992	(0.956)	540620	50.0000	50.9465
28 Benzene	78	10.110	10.110	(0.967)	1488386	50.0000	47.1256
* 29 1,4-Difluorobenzene	114	10.455	10.455	(1.000)	1488261	50.0000	
30 Trichloroethene	95	11.037	11.037	(1.056)	446520	50.0000	48.0162
$ 31 Trifluorotoluene	146	11.077	11.077	(1.059)	569388	50.0000	51.5160
32 1,2-Dichloropropane	63	11.244	11.244	(1.075)	482359	50.0000	49.4988
33 Bromodichloromethane	83	11.570	11.570	(1.107)	590405	50.0000	49.6712
34 Dibromomethane	93	11.629	11.629	(1.112)	406719	50.0000	51.3088
35 2-Chloroethylvinylether	63	11.974	11.974	(1.145)	309415	50.0000	48.7125
36 4-Methyl-2-Pentanone	43	12.073	12.073	(1.155)	452912	50.0000	51.8554
37 Tetramethyl THF	43	12.270	12.270	(1.174)	899645	50.0000	50.7762
38 cis-1,3-Dichloropropene	75	12.398	12.398	(1.186)	735547	50.0000	51.5943
$ 39 Toluene-d8	98	12.891	12.891	(1.233)	1388269	50.0000	49.0398
40 Toluene	92	13.010	13.010	(1.244)	842903	50.0000	46.4582
41 trans-1,3-Dichloropropene	75	13.158	13.158	(1.258)	631161	50.0000	51.9893
42 1,1,2-Trichloroethane	85	13.434	13.434	(1.285)	251705	50.0000	50.2127
43 2-Hexanone	43	13.453	13.453	(0.874)	292015	50.0000	50.9019
44 1,3-Dichloropropane	76	13.838	13.838	(0.899)	650328	50.0000	50.7486
45 Tetrachloroethene	166	14.154	14.154	(0.920)	426547	50.0000	52.3316
46 Dibromochloromethane	129	14.321	14.321	(0.931)	528109	50.0000	49.1703
47 1,2-Dibromoethane	107	14.676	14.676	(1.404)	519722	50.0000	51.6063
* 48 Chlorobenzene-d5	117	15.386	15.386	(1.000)	1198447	50.0000	
49 Chlorobenzene	112	15.455	15.455	(1.004)	1057628	50.0000	47.8501
50 1,1,1,2-Tetrachloroethane	131	15.505	15.505	(1.008)	417068	50.0000	51.1333
51 Ethylbenzene	91	15.564	15.564	(1.012)	1713700	50.0000	49.4742
52 m,p-Xylenes	106	15.712	15.712	(1.021)	1271513	100.000	101.0296
53 o-Xylene	106	16.471	16.471	(1.071)	642596	50.0000	52.0786
54 Styrene	104	16.481	16.481	(1.071)	1086397	50.0000	51.6254
55 Bromoform	173	17.004	17.004	(1.105)	397682	50.0000	51.9340
56 Isopropylbenzene	105	17.112	17.112	(0.869)	1592658	50.0000	54.5090
57 1,1,2,2-Tetrachloroethane	83	17.270	17.270	(0.877)	570392	50.0000	50.6499
$ 58 Bromofluorobenzene	95	17.497	17.497	(0.889)	584157	50.0000	53.0933
59 1,2,3-Trichloropropane	110	17.536	17.536	(0.891)	120418	50.0000	55.2525
60 Propylbenzene	91	17.842	17.842	(0.906)	1995095	50.0000	51.4806
61 Bromobenzene	156	17.872	17.872	(0.908)	515990	50.0000	51.6672
62 1,3,5-Trimethylbenzene	105	18.128	18.128	(0.921)	1239850	50.0000	51.8106
63 2-Chlorotoluene	91	18.138	18.138	(0.921)	1283379	50.0000	50.5201

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL11.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.227	18.227	(0.926)	1206405	50.0000	49.7166
65 tert-Butylbenzene	119	18.789	18.789	(0.954)	1084795	50.0000	52.3762
66 1,2,4-Trimethylbenzene	105	18.848	18.848	(0.957)	1283866	50.0000	50.9761
67 sec-Butylbenzene	105	19.183	19.183	(0.974)	1773841	50.0000	52.5478
68 para-Isopropyl Toluene	119	19.430	19.430	(0.987)	1289651	50.0000	50.3080
69 1,3-Dichlorobenzene	146	19.568	19.568	(0.994)	837727	50.0000	49.5331
* 70 1,4-Dichlorobenzene-d4	152	19.686	19.686	(1.000)	568204	50.0000	
71 1,4-Dichlorobenzene	146	19.746	19.746	(1.003)	899997	50.0000	50.6342
72 n-Butylbenzene	91	20.189	20.189	(1.026)	1340059	50.0000	51.2570
73 1,2-Dichlorobenzene	146	20.416	20.416	(1.037)	865409	50.0000	51.8903
74 1,2-Dibromo-3-Chloropropane	75	21.738	21.738	(1.104)	84555	50.0000	56.9028
75 1,2,4-Trichlorobenzene	180	23.286	23.286	(1.183)	580158	50.0000	53.6552
76 Hexachlorobutadiene	225	23.592	23.592	(1.198)	249127	50.0000	53.1940
77 Naphthalene	128	23.690	23.690	(1.203)	1264926	50.0000	54.1182
78 1,2,3-Trichlorobenzene	180	24.154	24.154	(1.227)	537856	50.0000	53.7846

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Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSV0A09.i
Operator: BO
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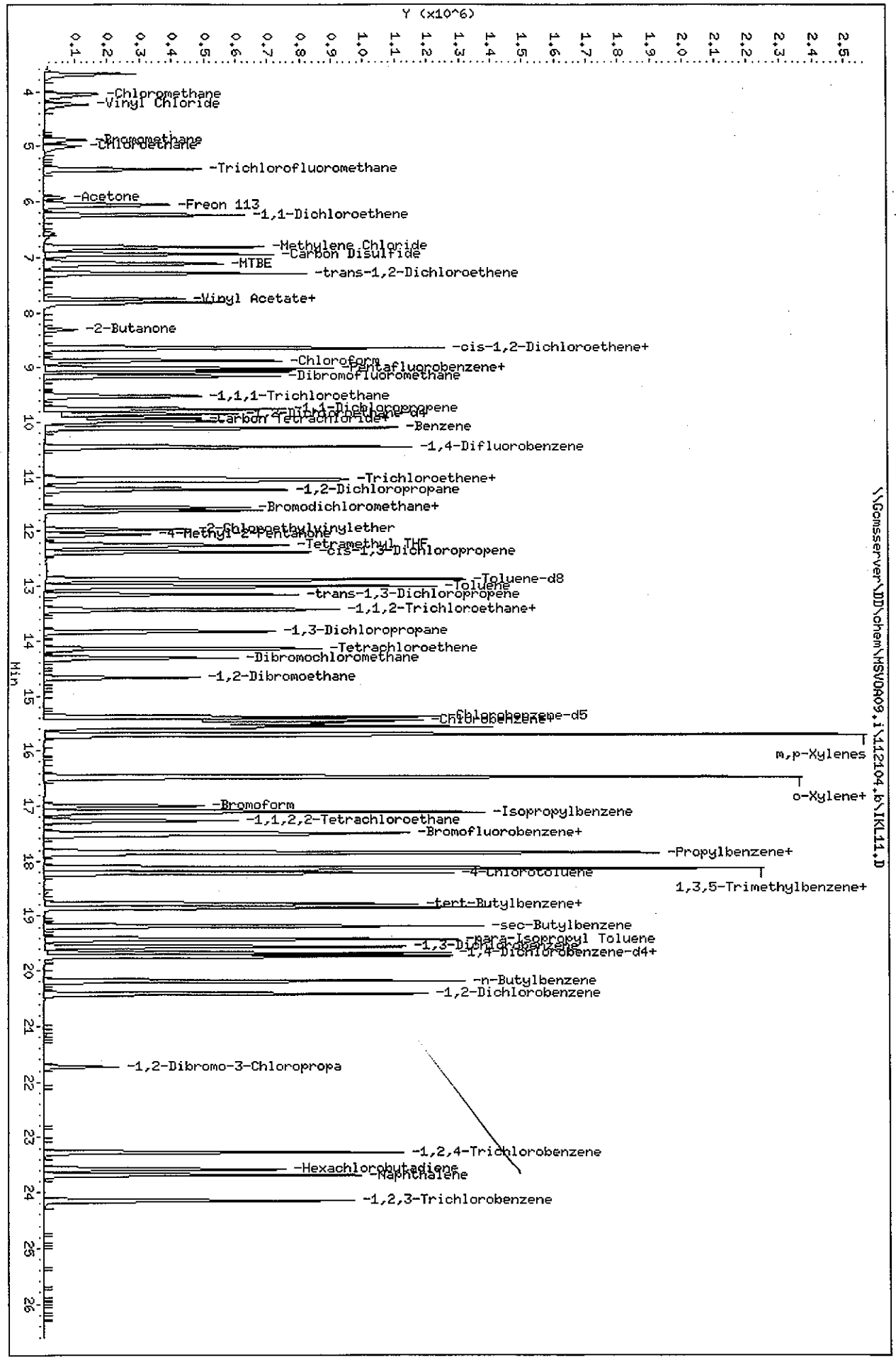

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Report Date: 22-Nov-2004 08:36

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Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL12.D
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Cal Date : 21-NOV-2004 17:13 Cal File: IKL07.D
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.690	3.690	(0.409)	609433	75.0000	79.5408
2 Chloromethane	50	4.055	4.055	(0.449)	624329	75.0000	68.1234
3 Vinyl Chloride	62	4.232	4.232	(0.469)	348143	75.0000	61.6891
4 Bromomethane	94	4.883	4.883	(0.541)	320588	75.0000	85.9384
5 Chloroethane	64	5.002	5.002	(0.554)	294034	75.0000	74.2869
6 Trichlorofluoromethane	101	5.416	5.416	(0.600)	854958	75.0000	79.3831
7 Acetone	43	5.929	5.929	(0.657)	176034	75.0000	70.6794
8 Freon 113	101	6.057	6.057	(0.671)	551212	75.0000	83.7241
9 1,1-Dichloroethene	96	6.244	6.244	(0.692)	565349	75.0000	81.1087
10 Methylene Chloride	84	6.816	6.816	(0.755)	678483	75.0000	69.9614
11 Carbon Disulfide	76	6.954	6.954	(0.771)	2144372	75.0000	73.8819
12 MTBE	73	7.122	7.122	(0.789)	1334872	75.0000	73.2747
13 trans-1,2-Dichloroethene	96	7.300	7.300	(0.809)	610191	75.0000	73.4053
14 Vinyl Acetate	43	7.763	7.763	(0.860)	1321840	75.0000	76.8118
15 1,1-Dichloroethane	63	7.822	7.822	(0.867)	1146397	75.0000	71.3826
16 2-Butanone	43	8.306	8.306	(0.920)	309198	75.0000	77.4485

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL12.D
Report Date: 22-Nov-2004 08:36

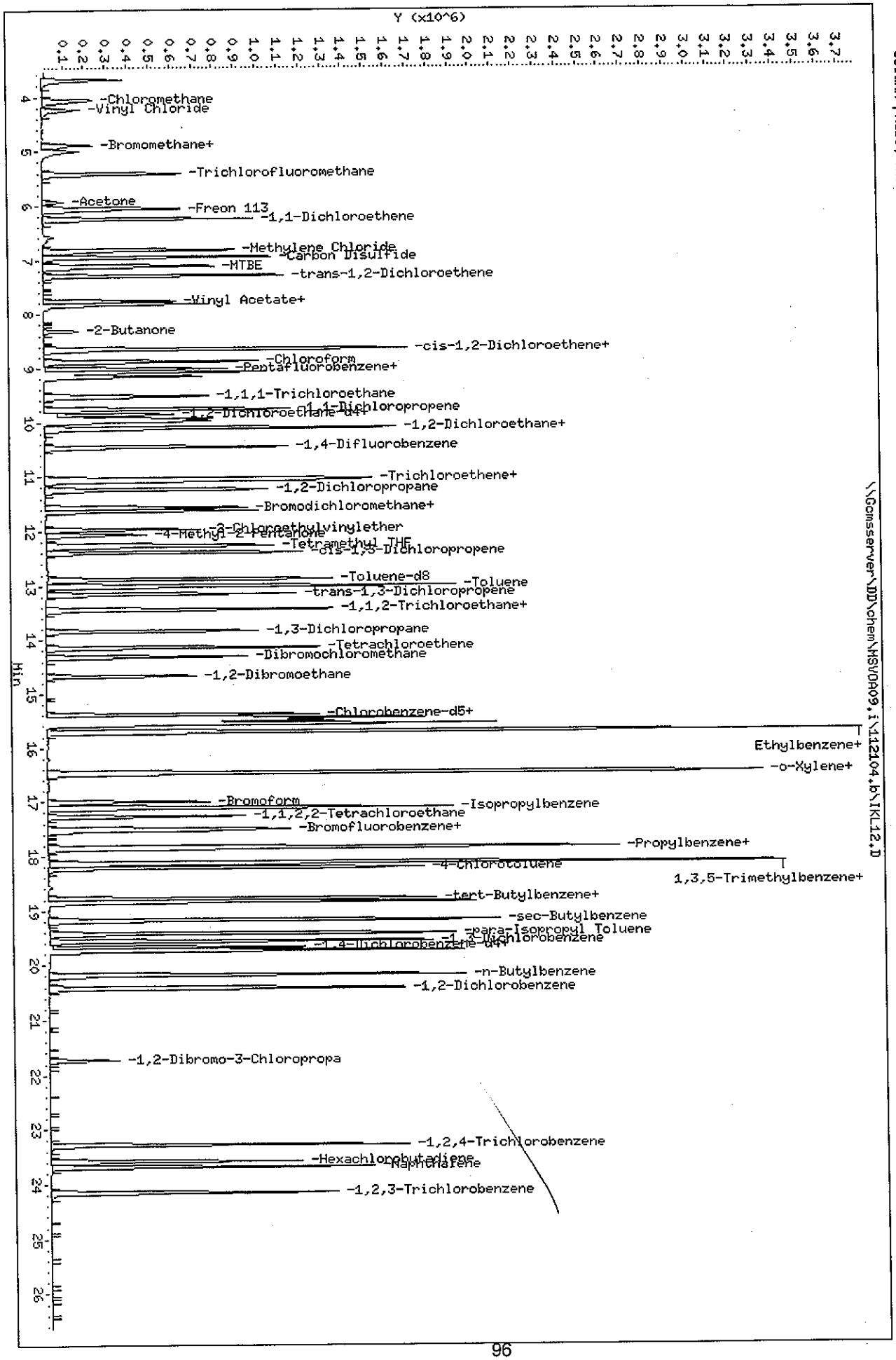
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.651	8.651	(0.958)	650889	75.0000	70.0759
18 2,2-Dichloropropane	77	8.651	8.651	(0.958)	713613	75.0000	72.6820
19 Chloroform	83	8.887	8.887	(0.985)	1108446	75.0000	69.4025
* 20 Pentafluorobenzene	168	9.025	9.025	(1.000)	943396	50.0000	
21 Bromochloromethane	128	9.085	9.085	(1.007)	416678	75.0000	73.0548
$ 22 Dibromofluoromethane	113	9.164	9.164	(1.015)	655402	50.0000	51.4887
23 1,1,1-Trichloroethane	97	9.528	9.528	(1.056)	783809	75.0000	77.6836
24 1,1-Dichloropropene	75	9.765	9.765	(0.934)	826763	75.0000	81.9191
$ 25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.942)	544167	50.0000	52.6746
26 Carbon Tetrachloride	117	9.943	9.943	(0.951)	758696	75.0000	85.6235
27 1,2-Dichloroethane	62	9.992	9.992	(0.956)	755403	75.0000	75.7458
28 Benzene	78	10.110	10.110	(0.967)	2185031	75.0000	73.6132
* 29 1,4-Difluorobenzene	114	10.456	10.456	(1.000)	1398692	50.0000	
30 Trichloroethene	95	11.037	11.037	(1.056)	688670	75.0000	78.7980
$ 31 Trifluorotoluene	146	11.077	11.077	(1.059)	881432	75.0000	84.8555
32 1,2-Dichloropropane	63	11.244	11.244	(1.075)	688331	75.0000	75.1586
33 Bromodichloromethane	83	11.570	11.570	(1.107)	874863	75.0000	78.3162
34 Dibromomethane	93	11.629	11.629	(1.112)	585667	75.0000	78.6150
35 2-Chloroethylvinylether	63	11.964	11.964	(1.144)	482162	75.0000	80.7698
36 4-Methyl-2-Pentanone	43	12.073	12.073	(1.155)	626810	75.0000	76.3613
37 Tetramethyl THF	43	12.260	12.260	(1.173)	1327974	75.0000	79.7509
38 cis-1,3-Dichloropropene	75	12.398	12.398	(1.186)	1064949	75.0000	79.4835
$ 39 Toluene-d8	98	12.882	12.882	(1.232)	1388385	50.0000	52.1846
40 Toluene	92	13.010	13.010	(1.244)	1339723	75.0000	78.5701
41 trans-1,3-Dichloropropene	75	13.158	13.158	(1.258)	922013	75.0000	80.8105
42 1,1,2-Trichloroethane	85	13.434	13.434	(1.285)	362477	75.0000	76.9413
43 2-Hexanone	43	13.454	13.454	(0.874)	413636	75.0000	73.9894
44 1,3-Dichloropropane	76	13.838	13.838	(0.899)	887681	75.0000	71.0838
45 Tetrachloroethene	166	14.154	14.154	(0.920)	631288	75.0000	79.4779
46 Dibromochloromethane	129	14.322	14.322	(0.931)	815863	75.0000	77.9505
47 1,2-Dibromoethane	107	14.677	14.677	(1.404)	740077	75.0000	78.1926
* 48 Chlorobenzene-d5	117	15.387	15.387	(1.000)	1167876	50.0000	
49 Chlorobenzene	112	15.456	15.456	(1.004)	1545432	75.0000	71.7500
50 1,1,1,2-Tetrachloroethane	131	15.505	15.505	(1.008)	586187	75.0000	73.7488
51 Ethylbenzene	91	15.564	15.564	(1.012)	2496129	75.0000	73.9491
52 m,p-Xylenes	106	15.712	15.712	(1.021)	1830633	150.000	149.2628
53 o-Xylene	106	16.471	16.471	(1.071)	911493	75.0000	75.8048
54 Styrene	104	16.491	16.491	(1.072)	1624366	75.0000	79.2102
55 Bromoform	173	17.004	17.004	(1.105)	587439	75.0000	78.7228
56 Isopropylbenzene	105	17.113	17.113	(0.870)	2218967	75.0000	76.0819
57 1,1,2,2-Tetrachloroethane	83	17.270	17.270	(0.878)	819523	75.0000	72.9041
$ 58 Bromofluorobenzene	95	17.497	17.497	(0.889)	552367	50.0000	50.2948
59 1,2,3-Trichloropropane	110	17.537	17.537	(0.891)	168554	75.0000	77.4791
60 Propylbenzene	91	17.842	17.842	(0.907)	2891002	75.0000	74.7332
61 Bromobenzene	156	17.862	17.862	(0.908)	721286	75.0000	72.3546
62 1,3,5-Trimethylbenzene	105	18.128	18.128	(0.921)	1884954	75.0000	78.9106
63 2-Chlorotoluene	91	18.138	18.138	(0.922)	1902160	75.0000	75.0138

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL12.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.227	18.227	(0.926)	1705190	75.0000	70.3990
65 tert-Butylbenzene	119	18.789	18.789	(0.955)	1695373	75.0000	82.0043
66 1,2,4-Trimethylbenzene	105	18.848	18.848	(0.958)	1920357	75.0000	76.3861
67 sec-Butylbenzene	105	19.184	19.184	(0.975)	2686536	75.0000	79.7293
68 para-Isopropyl Toluene	119	19.430	19.430	(0.987)	2008702	75.0000	78.4992
69 1,3-Dichlorobenzene	146	19.568	19.568	(0.994)	1310103	75.0000	77.6038
* 70 1,4-Dichlorobenzene-d4	152	19.677	19.677	(1.000)	567178	50.0000	
71 1,4-Dichlorobenzene	146	19.736	19.736	(1.003)	1379564	75.0000	77.7553
72 n-Butylbenzene	91	20.180	20.180	(1.026)	2031880	75.0000	77.8596
73 1,2-Dichlorobenzene	146	20.426	20.426	(1.038)	1271055	75.0000	76.3510
74 1,2-Dibromo-3-Chloropropane	75	21.728	21.728	(1.104)	118362	75.0000	79.7979
75 1,2,4-Trichlorobenzene	180	23.286	23.286	(1.183)	865447	75.0000	80.1846
76 Hexachlorobutadiene	225	23.582	23.582	(1.198)	384274	75.0000	82.1992
77 Naphthalene	128	23.691	23.691	(1.204)	1919394	75.0000	82.2673
78 1,2,3-Trichlorobenzene	180	24.154	24.154	(1.228)	767972	75.0000	76.9347

Data File: \\Comsserver\DD\chem\MSVOA09.i\112104.b\IKL12.D
Date : 21-NOV-2004 20:06
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0,015/100,04WS2167A,0,030/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Report Date: 22-Nov-2004 08:36

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 21-NOV-2004 20:40 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : ICAL,04SS393,0.020/100,04WS2167A,0.040/100,
Misc Info : 04WS2204A,0.010/100,100PPB, NP NL
Comment :
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Meth Date : 22-Nov-2004 08:36 target Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.680	3.680	(0.408)	825513	100.000	99.7542
2 Chloromethane	50	4.064	4.064	(0.450)	816101	100.000	82.4460
3 Vinyl Chloride	62	4.232	4.232	(0.469)	392026	100.000	64.3145
4 Bromomethane	94	4.883	4.883	(0.541)	465987	100.000	115.6531
5 Chloroethane	64	5.001	5.001	(0.554)	354212	100.000	82.8555
6 Trichlorofluoromethane	101	5.416	5.416	(0.600)	1125230	100.000	96.7315
7 Acetone	43	5.928	5.928	(0.657)	244412	100.000	90.8579
8 Freon 113	101	6.057	6.057	(0.671)	764704	100.000	107.5396
9 1,1-Dichloroethene	96	6.244	6.244	(0.692)	744437	100.000	98.8830
10 Methylene Chloride	84	6.816	6.816	(0.755)	895811	100.000	85.5223
11 Carbon Disulfide	76	6.954	6.954	(0.771)	2895028	100.000	92.3494
12 MTBE	73	7.122	7.122	(0.789)	1879047	100.000	95.4983
13 trans-1,2-Dichloroethene	96	7.299	7.299	(0.809)	847072	100.000	94.3464
14 Vinyl Acetate	43	7.763	7.763	(0.860)	1648415	100.000	88.6868
15 1,1-Dichloroethane	63	7.822	7.822	(0.867)	1501797	100.000	86.5788
16 2-Butanone	43	8.315	8.315	(0.921)	398363	100.000	92.3844

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.650	8.650	(0.958)	910998	100.000	90.8076
18 2,2-Dichloropropane	77	8.650	8.650	(0.958)	985082	100.000	92.8923
19 Chloroform	83	8.887	8.887	(0.985)	1486745	100.000	86.1867
* 20 Pentafluorobenzene	168	9.025	9.025	(1.000)	1018945	50.0000	
21 Bromochloromethane	128	9.084	9.084	(1.007)	586048	100.000	95.1315
$ 22 Dibromofluoromethane	113	9.163	9.163	(1.015)	657804	50.0000	47.8458
23 1,1,1-Trichloroethane	97	9.528	9.528	(1.056)	1075994	100.000	98.7352
24 1,1-Dichloropropene	75	9.765	9.765	(0.933)	1084512	100.000	102.4909
$ 25 1,2-Dichloroethane-d4	65	9.854	9.854	(0.942)	535968	50.0000	49.4829
26 Carbon Tetrachloride	117	9.942	9.942	(0.950)	1014449	100.000	109.1949
27 1,2-Dichloroethane	62	9.992	9.992	(0.955)	1026273	100.000	98.1498
28 Benzene	78	10.120	10.120	(0.967)	2964813	100.000	95.2670
* 29 1,4-Difluorobenzene	114	10.465	10.465	(1.000)	1466477	50.0000	
30 Trichloroethene	95	11.037	11.037	(1.055)	892180	100.000	97.3651
$ 31 Trifluorotoluene	146	11.076	11.076	(1.058)	1159744	100.000	106.4879
32 1,2-Dichloropropane	63	11.234	11.234	(1.074)	934037	100.000	97.2731
33 Bromodichloromethane	83	11.570	11.570	(1.106)	1143039	100.000	97.5931
34 Dibromomethane	93	11.629	11.629	(1.111)	768102	100.000	98.3377
35 2-Chloroethylvinylether	63	11.974	11.974	(1.144)	648610	100.000	103.6303
36 4-Methyl-2-Pentanone	43	12.063	12.063	(1.153)	831701	100.000	96.6389
37 Tetramethyl THF	43	12.270	12.270	(1.172)	1631001	100.000	93.4216
38 cis-1,3-Dichloropropene	75	12.398	12.398	(1.185)	1358514	100.000	96.7073
$ 39 Toluene-d8	98	12.881	12.881	(1.231)	1468519	50.0000	52.6452
40 Toluene	92	13.009	13.009	(1.243)	1688976	100.000	94.4740
41 trans-1,3-Dichloropropene	75	13.157	13.157	(1.257)	1214227	100.000	101.5026
42 1,1,2-Trichloroethane	85	13.434	13.434	(1.284)	489683	100.000	99.1382
43 2-Hexanone	43	13.453	13.453	(0.874)	566339	100.000	104.1373
44 1,3-Dichloropropane	76	13.838	13.838	(0.899)	1235659	100.000	101.7163
45 Tetrachloroethene	166	14.153	14.153	(0.920)	797025	100.000	103.1500
46 Dibromochloromethane	129	14.321	14.321	(0.931)	1075962	100.000	105.6761
47 1,2-Dibromoethane	107	14.676	14.676	(1.402)	996578	100.000	100.4262
* 48 Chlorobenzene-d5	117	15.386	15.386	(1.000)	1136105	50.0000	
49 Chlorobenzene	112	15.455	15.455	(1.004)	2086165	100.000	99.5633
50 1,1,1,2-Tetrachloroethane	131	15.505	15.505	(1.008)	798543	100.000	103.2751
51 Ethylbenzene	91	15.564	15.564	(1.012)	3406953	100.000	103.7553
52 m,p-Xylenes	106	15.712	15.712	(1.021)	2223964	200.000	186.4044
53 o-Xylene	106	16.471	16.471	(1.071)	1138108	100.000	97.2983
54 Styrene	104	16.481	16.481	(1.071)	1992351	100.000	99.8715
55 Bromoform	173	17.004	17.004	(1.105)	793026	100.000	109.2455
56 Isopropylbenzene	105	17.112	17.112	(0.869)	2981553	100.000	98.1367
57 1,1,2,2-Tetrachloroethane	83	17.270	17.270	(0.877)	1125431	100.000	96.1098
$ 58 Bromofluorobenzene	95	17.497	17.497	(0.889)	554055	50.0000	48.4291
59 1,2,3-Trichloropropane	110	17.536	17.536	(0.891)	227402	100.000	100.3455
60 Propylbenzene	91	17.842	17.842	(0.906)	3693235	100.000	91.6496
61 Bromobenzene	156	17.872	17.872	(0.908)	984049	100.000	94.7618
62 1,3,5-Trimethylbenzene	105	18.128	18.128	(0.921)	2233498	100.000	89.7591
63 2-Chlorotoluene	91	18.138	18.138	(0.921)	2306590	100.000	87.3219

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL13.D
Report Date: 22-Nov-2004 08:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.227	18.227	(0.926)	2313243	100.000	91.6797
65 tert-Butylbenzene	119	18.779	18.779	(0.954)	1948168	100.000	90.4599
66 1,2,4-Trimethylbenzene	105	18.848	18.848	(0.957)	2452279	100.000	93.6398
67 sec-Butylbenzene	105	19.183	19.183	(0.974)	3565363	100.000	101.5751
68 para-Isopropyl Toluene	119	19.430	19.430	(0.987)	2644575	100.000	99.2119
69 1,3-Dichlorobenzene	146	19.568	19.568	(0.994)	1738470	100.000	98.8561
* 70 1,4-Dichlorobenzene-d4	152	19.686	19.686	(1.000)	590828	50.0000	
71 1,4-Dichlorobenzene	146	19.745	19.745	(1.003)	1724976	100.000	93.3317
72 n-Butylbenzene	91	20.189	20.189	(1.026)	2691206	100.000	98.9964
73 1,2-Dichlorobenzene	146	20.426	20.426	(1.038)	1698874	100.000	97.9647
74 1,2-Dibromo-3-Chloropropane	75	21.738	21.738	(1.104)	156305	100.000	101.1604
75 1,2,4-Trichlorobenzene	180	23.286	23.286	(1.183)	1131041	100.000	100.5974
76 Hexachlorobutadiene	225	23.582	23.582	(1.198)	495736	100.000	101.7971
77 Naphthalene	128	23.690	23.690	(1.203)	2461811	100.000	101.2923
78 1,2,3-Trichlorobenzene	180	24.154	24.154	(1.227)	1031284	100.000	99.1776

Data File: \\Gcmsserver\DD\chem\MSVOA09.i\112104.b\IKL13.D
Date : 21-NOV-2004 20:40
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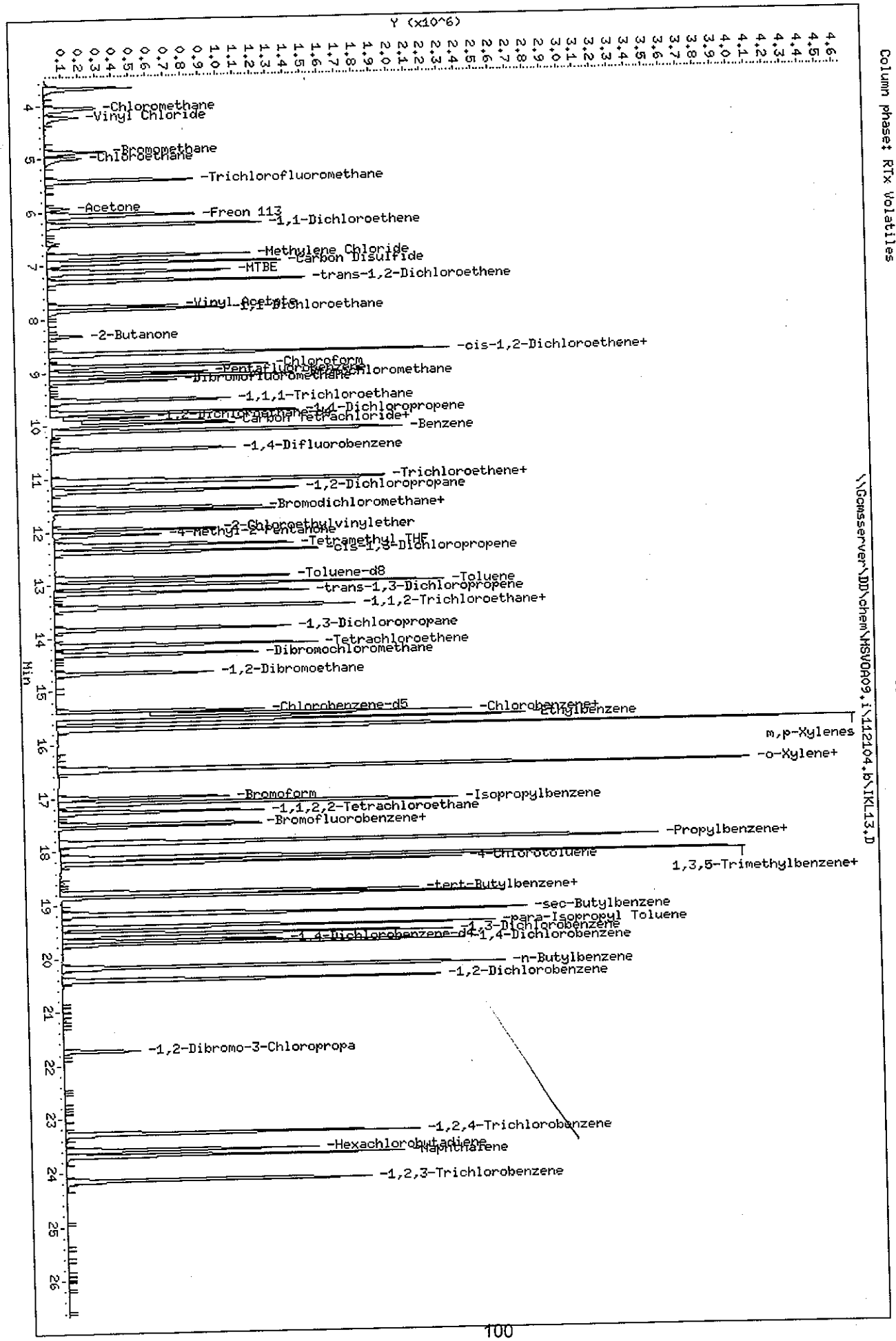
Sample Info: ICAL,04SS393,0.020/100,04WS2167A,0.040/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109014 Filename : ikl14 Injected : 21-NOV-2004 21:19
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS2093C (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	34.38790	ug/L	-31	30	v- ***
Chloromethane	50.00000	37.86670	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	43.13430	ug/L	-14	20	
Bromomethane	50.00000	56.91600	ug/L	14	30	
Chloroethane	50.00000	45.20230	ug/L	-10	30	
Trichlorofluoromethane	50.00000	46.64910	ug/L	-7	30	
Dibromofluoromethane	50.00000	44.08790	ug/L	-12	30	
1,2-Dichloroethane-d4	50.00000	48.18530	ug/L	-4	30	
Toluene-d8	50.00000	48.99340	ug/L	-2	30	
Bromofluorobenzene	50.00000	47.75320	ug/L	-4	30	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1014578	2.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1494029	0.39	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1206472	0.67	15.39	15.39	0.00
1,4-Dichlorobenzene-d4	568204	600946	5.76	19.69	19.69	0.00

11/22/04

11/22/04

!=warning -=low bias v=ICV
Page 1 of 1

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Report Date: 22-Nov-2004 08:41

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Lab Smp Id:
Inj Date : 21-NOV-2004 21:19
Operator : BO
Smp Info : ICV,04WS2093C,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:36 target
Cal Date : 21-NOV-2004 20:40
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 19-OCT-2004 13:26
Inst ID: MSVOA09.i

Quant Type: ISTD
Cal File: IKL13.D

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.689	3.680	(0.409)	283356	34.3879	34.3879
2 Chloromethane	50	4.063	4.064	(0.450)	373221	37.8667	37.8667
3 Vinyl Chloride	62	4.241	4.232	(0.470)	261796	43.1343	43.1342
4 Bromomethane	94	4.882	4.883	(0.541)	228342	56.9162	56.9162
5 Chloroethane	64	5.000	5.001	(0.554)	192414	45.2023	45.2023
6 Trichlorofluoromethane	101	5.414	5.416	(0.600)	540320	46.6491	46.6491
7 Acetone	43	5.927	5.928	(0.657)	806	0.30126	0.3012(a)
9 1,1-Dichloroethene	96	6.243	6.244	(0.692)	3702	0.49394	0.4939(a)
10 Methylene Chloride	84	6.815	6.816	(0.755)	5497	0.52712	0.5271
11 Carbon Disulfide	76	6.953	6.954	(0.771)	24553	0.78662	0.7866
13 trans-1,2-Dichloroethene	96	7.298	7.299	(0.809)	6354	0.71077	0.7107
14 Vinyl Acetate	43	7.752	7.763	(0.859)	5348	0.28902	0.2890(a)
15 1,1-Dichloroethane	63	7.821	7.822	(0.867)	10944	0.63367	0.6336
16 2-Butanone	43	8.314	8.315	(0.921)	1556	0.36256	0.3625(a)
17 cis-1,2-Dichloroethene	96	8.659	8.650	(0.960)	5735	0.57412	0.5741
18 2,2-Dichloropropane	77	8.659	8.650	(0.960)	5347	0.50645	0.5064

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Report Date: 22-Nov-2004 08:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	19 Chloroform	83	8.886	8.887	(0.985)	10160	0.59155	0.5915
*	20 Pentafluorobenzene	168	9.024	9.025	(1.000)	1014578	50.0000	
	21 Bromochloromethane	128	9.083	9.084	(1.007)	981	0.16004	0.1600(a)
$	22 Dibromofluoromethane	113	9.162	9.163	(1.015)	603541	44.0879	44.0879
	23 1,1,1-Trichloroethane	97	9.537	9.528	(1.057)	5689	0.52430	0.5242
	24 1,1-Dichloropropene	75	9.764	9.765	(0.934)	5500	0.51023	0.5102
$	25 1,2-Dichloroethane-d4	65	9.852	9.854	(0.942)	531718	48.1853	48.1853
	26 Carbon Tetrachloride	117	9.931	9.942	(0.950)	3555	0.37564	0.3756(a)
	27 1,2-Dichloroethane	62	9.990	9.992	(0.956)	1700	0.15963	0.1596(a)
	28 Benzene	78	10.109	10.120	(0.967)	21191	0.66839	0.6683
*	29 1,4-Difluorobenzene	114	10.454	10.465	(1.000)	1494029	50.0000	
	30 Trichloroethene	95	11.046	11.037	(1.057)	6174	0.66142	0.6614
$	31 Trifluorotoluene	146	11.085	11.076	(1.060)	6365	0.57367	0.5736
	32 1,2-Dichloropropane	63	11.233	11.234	(1.075)	4460	0.45595	0.4559(a)
	33 Bromodichloromethane	83	11.568	11.570	(1.107)	3769	0.31590	0.3159(a)
	34 Dibromomethane	93	11.628	11.629	(1.112)	929	0.11684	0.1168(a)
	38 cis-1,3-Dichloropropene	75	12.397	12.398	(1.186)	4283	0.29931	0.2993(a)
$	39 Toluene-d8	98	12.880	12.881	(1.232)	1392330	48.9934	48.9933
	40 Toluene	92	13.018	13.009	(1.245)	12676	0.69600	0.6959
	41 trans-1,3-Dichloropropene	75	13.156	13.157	(1.258)	2122	0.17416	0.1741(a)
	44 1,3-Dichloropropane	76	13.837	13.838	(0.899)	1454	0.11278	0.1127(a)
	45 Tetrachloroethene	166	14.143	14.153	(0.919)	5676	0.69174	0.6917
*	48 Chlorobenzene-d5	117	15.385	15.386	(1.000)	1206472	50.0000	
	49 Chlorobenzene	112	15.454	15.455	(1.004)	12962	0.58257	0.5825
	50 1,1,1,2-Tetrachloroethane	131	15.503	15.505	(1.008)	3106	0.37827	0.3782(a)
	51 Ethylbenzene	91	15.563	15.564	(1.012)	22027	0.63169	0.6316
	52 m,p-Xylenes	106	15.711	15.712	(1.021)	17610	1.38998	1.3899
	53 o-Xylene	106	16.470	16.471	(1.071)	7496	0.60352	0.6035
	54 Styrene	104	16.480	16.481	(1.071)	10554	0.49822	0.4982(a)
	55 Bromoform	173	17.003	17.004	(1.105)	1123	0.14579	0.1457(a)
	56 Isopropylbenzene	105	17.111	17.112	(0.869)	18243	0.59035	0.5903
$	58 Bromofluorobenzene	95	17.496	17.497	(0.889)	555678	47.7532	47.7531
	60 Propylbenzene	91	17.841	17.842	(0.906)	26336	0.64255	0.6425
	61 Bromobenzene	156	17.870	17.872	(0.908)	4331	0.41012	0.4101(a)
	62 1,3,5-Trimethylbenzene	105	18.127	18.128	(0.921)	16534	0.65329	0.6532
	63 2-Chlorotoluene	91	18.137	18.138	(0.921)	17229	0.64127	0.6412
	64 4-Chlorotoluene	91	18.225	18.227	(0.926)	16681	0.64998	0.6499
	65 tert-Butylbenzene	119	18.778	18.779	(0.954)	13680	0.62455	0.6245
	66 1,2,4-Trimethylbenzene	105	18.847	18.848	(0.957)	16924	0.63538	0.6353
	67 sec-Butylbenzene	105	19.182	19.183	(0.974)	18997	0.53211	0.5321
	68 para-Isopropyl Toluene	119	19.429	19.430	(0.987)	16533	0.60982	0.6098
	69 1,3-Dichlorobenzene	146	19.567	19.568	(0.994)	12029	0.67255	0.6725
*	70 1,4-Dichlorobenzene-d4	152	19.685	19.686	(1.000)	600946	50.0000	
	71 1,4-Dichlorobenzene	146	19.744	19.745	(1.003)	11133	0.59227	0.5922
	72 n-Butylbenzene	91	20.188	20.189	(1.026)	19023	0.68800	0.6879
	73 1,2-Dichlorobenzene	146	20.415	20.426	(1.037)	7864	0.44585	0.4458(a)
	75 1,2,4-Trichlorobenzene	180	23.285	23.286	(1.183)	9988	0.87344	0.8734

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL14.D
Report Date: 22-Nov-2004 08:41

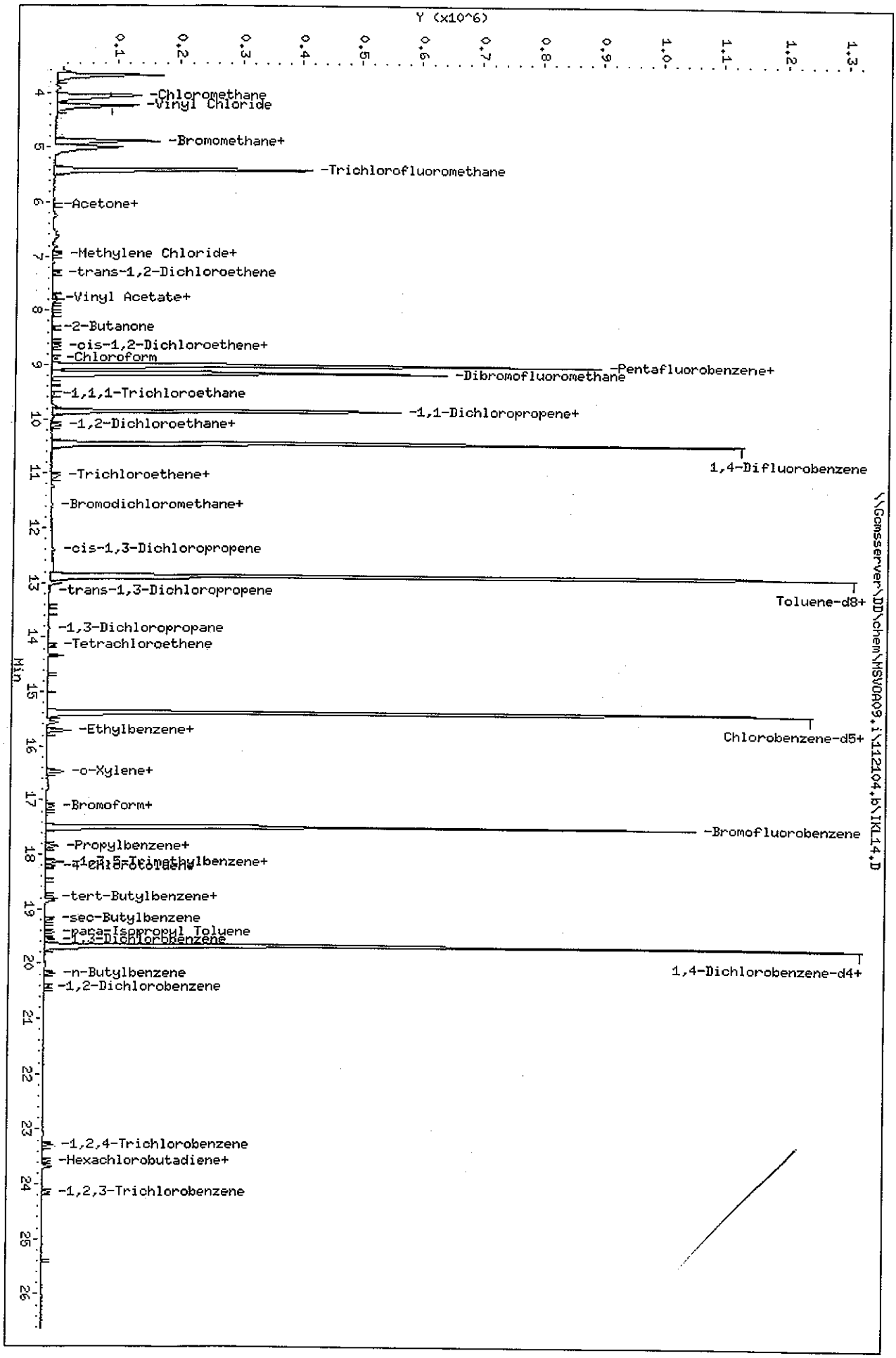
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
76 Hexachlorobutadiene	225	23.581	23.582	(1.198)	5018	1.01323	1.0132
77 Naphthalene	128	23.689	23.690	(1.203)	21629	0.87497	0.8749
78 1,2,3-Trichlorobenzene	180	24.153	24.154	(1.227)	8939	0.84528	0.8452

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\Comsserver\DD\chem\MSVOA09.i\112104.b\IKL14.D
Date : 21-NOV-2004 21:19
Client ID: DYNA P&T
Sample Info: ICV,04WS2093C,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



8260 w lcal

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	44.59970	ug/L	-11	40	
Freon 113	50.00000	52.27680	ug/L	5	30	
1,1-Dichloroethene	50.00000	44.05450	ug/L	-12	20	
Methylene Chloride	50.00000	41.68240	ug/L	-17	30	
Carbon Disulfide	50.00000	36.01470	ug/L	-28	30	!v-
MTBE	50.00000	49.11350	ug/L	-2	30	
trans-1,2-Dichloroethene	50.00000	44.12140	ug/L	-12	30	
Vinyl Acetate	50.00000	44.10440	ug/L	-12	40	
1,1-Dichloroethane	50.00000	42.86250	ug/L	-14	30	
2-Butanone	50.00000	46.86130	ug/L	-6	40	
2,2-Dichloropropane	50.00000	42.79560	ug/L	-14	30	
cis-1,2-Dichloroethene	50.00000	44.58400	ug/L	-11	30	
Chloroform	50.00000	40.71470	ug/L	-19	20	
Bromochloromethane	50.00000	44.24340	ug/L	-12	30	
1,1,1-Trichloroethane	50.00000	46.64680	ug/L	-7	30	
1,1-Dichloropropene	50.00000	48.28790	ug/L	-3	30	
Carbon Tetrachloride	50.00000	52.61100	ug/L	5	30	
1,2-Dichloroethane	50.00000	45.94130	ug/L	-8	30	
Benzene	50.00000	49.45180	ug/L	-1	30	
Trichloroethene	50.00000	49.55640	ug/L	-1	30	
1,2-Dichloropropane	50.00000	48.86640	ug/L	-2	20	
Bromodichloromethane	50.00000	48.91790	ug/L	-2	30	
Dibromomethane	50.00000	49.26520	ug/L	-1	30	
2-Chloroethylvinylether	50.00000	15.98140	ug/L	-68	40	v- ***
4-Methyl-2-Pentanone	50.00000	50.90330	ug/L	2	40	
Tetramethyl THF	50.00000	49.03710	ug/L	-2	30	
cis-1,3-Dichloropropene	50.00000	48.98030	ug/L	-2	30	
Toluene	50.00000	50.66520	ug/L	1	20	
trans-1,3-Dichloropropene	50.00000	47.59550	ug/L	-5	30	
1,1,2-Trichloroethane	50.00000	53.18380	ug/L	6	30	
2-Hexanone	50.00000	51.15600	ug/L	2	40	
1,3-Dichloropropane	50.00000	43.85980	ug/L	-12	30	
Tetrachloroethene	50.00000	49.36900	ug/L	-1	30	
Dibromochloromethane	50.00000	47.64990	ug/L	-5	30	
1,2-Dibromoethane	50.00000	50.73340	ug/L	1	30	
Chlorobenzene	50.00000	45.07780	ug/L	-10	30	
1,1,1,2-Tetrachloroethane	50.00000	47.30650	ug/L	-5	30	
Ethylbenzene	50.00000	47.99840	ug/L	-4	20	
m,p-Xylenes	100.0000	92.15590	ug/L	-8	30	
o-Xylene	50.00000	44.78060	ug/L	-10	30	
Styrene	50.00000	47.16190	ug/L	-6	30	
Bromoform	50.00000	48.96620	ug/L	-2	30	
Isopropylbenzene	50.00000	43.46750	ug/L	-13	30	
1,1,2,2-Tetrachloroethane	50.00000	45.24820	ug/L	-10	30	
1,2,3-Trichloropropane	50.00000	45.77170	ug/L	-8	30	
Propylbenzene	50.00000	48.14630	ug/L	-4	30	
Bromobenzene	50.00000	49.60180	ug/L	-1	30	

!=warning -=low bias v=ICV
Page 1 of 2

11/22/04

11/22/04

8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
Seqnum : 484470109015 Filename : ikl15 Injected : 21-NOV-2004 21:54
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags	
1,3,5-Trimethylbenzene	50.00000	48.55720	ug/L	-3	30		
2-Chlorotoluene	50.00000	45.52670	ug/L	-9	30		
4-Chlorotoluene	50.00000	46.73920	ug/L	-7	30		
tert-Butylbenzene	50.00000	47.08890	ug/L	-6	30		
1,2,4-Trimethylbenzene	50.00000	47.63740	ug/L	-5	30		
sec-Butylbenzene	50.00000	46.39300	ug/L	-7	30		
para-Isopropyl Toluene	50.00000	45.37760	ug/L	-9	30		
1,3-Dichlorobenzene	50.00000	47.82840	ug/L	-4	30		
1,4-Dichlorobenzene	50.00000	45.70340	ug/L	-9	30		
n-Butylbenzene	50.00000	49.55680	ug/L	-1	30		
1,2-Dichlorobenzene	50.00000	47.21460	ug/L	-6	30		
1,2-Dibromo-3-Chloropropane	50.00000	48.61860	ug/L	-3	30		
1,2,4-Trichlorobenzene	50.00000	50.59590	ug/L	1	30		
Hexachlorobutadiene	50.00000	52.53790	ug/L	5	30		
Naphthalene	50.00000	46.10110	ug/L	-8	30		
1,2,3-Trichlorobenzene	50.00000	50.61160	ug/L	1	30		
Dibromofluoromethane	50.00000	45.18460	ug/L	-10	30		(NOT USED)
1,2-Dichloroethane-d4	50.00000	47.15140	ug/L	-6	30		(NOT USED)
Toluene-d8	50.00000	51.34820	ug/L	3	30		(NOT USED)
Bromofluorobenzene	50.00000	48.96160	ug/L	-2	30		(NOT USED)

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1034484	4.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1417615	-4.75	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1227374	2.41	15.39	15.38	-0.01
1,4-Dichlorobenzene-d4	568204	589573	3.76	19.69	19.68	-0.01

!=warning -=low bias v=ICV
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Report Date: 22-Nov-2004 08:41

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Lab Smp Id:
Inj Date : 21-NOV-2004 21:54
Operator : BO
Smp Info : ICV,04WS1939B,5000X,04WS1940D,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\I9M826W.m
Meth Date : 22-Nov-2004 08:36 target
Cal Date : 21-NOV-2004 20:40
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 19-OCT-2004 13:26
Inst ID: MSVOA09.i

Quant Type: ISTD
Cal File: IKL13.D

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.675	3.680	(0.407)	4328	0.51514	0.5151
2 Chloromethane	50	4.030	4.064	(0.447)	39649	3.94535	3.9453
3 Vinyl Chloride	62	4.237	4.232	(0.470)	3397	0.54908	0.5490
4 Bromomethane	94	4.868	4.883	(0.540)	148015	36.1840	36.1840
5 Chloroethane	64	4.987	5.001	(0.553)	2902	0.66880	0.6688
6 Trichlorofluoromethane	101	5.420	5.416	(0.601)	4651	0.39390	0.3939(a)
7 Acetone	43	5.923	5.928	(0.657)	121805	44.6000	44.6000
8 Freon 113	101	6.062	6.057	(0.672)	377404	52.2768	52.2768
9 1,1-Dichloroethene	96	6.239	6.244	(0.692)	336720	44.0545	44.0544
10 Methylene Chloride	84	6.821	6.816	(0.756)	443264	41.6824	41.6824
11 Carbon Disulfide	76	6.949	6.954	(0.770)	1146229	36.0147	36.0146
12 MTBE	73	7.117	7.122	(0.789)	981106	49.1135	49.1134
13 trans-1,2-Dichloroethene	96	7.294	7.299	(0.809)	402177	44.1214	44.1214
14 Vinyl Acetate	43	7.758	7.763	(0.860)	832267	44.1044	44.1043
15 1,1-Dichloroethane	63	7.817	7.822	(0.867)	754831	42.8625	42.8624
16 2-Butanone	43	8.310	8.315	(0.921)	205148	46.8613	46.8612

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Report Date: 22-Nov-2004 08:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 cis-1,2-Dichloroethene	96	8.655	8.650	(0.960)	454095	44.5840	44.5840
	18 2,2-Dichloropropane	77	8.645	8.650	(0.958)	460749	42.7956	42.7956
	19 Chloroform	83	8.882	8.887	(0.985)	713051	40.7147	40.7146
*	20 Pentafluorobenzene	168	9.020	9.025	(1.000)	1034484	50.0000	
	21 Bromochloromethane	128	9.079	9.084	(1.007)	276713	44.2434	44.2433
$	22 Dibromofluoromethane	113	9.158	9.163	(1.015)	630689	45.1845	45.1845
	23 1,1,1-Trichloroethane	97	9.523	9.528	(1.056)	516098	46.6468	46.6467
	24 1,1-Dichloropropene	75	9.760	9.765	(0.933)	493935	48.2879	48.2878
$	25 1,2-Dichloroethane-d4	65	9.858	9.854	(0.942)	493698	47.1515	47.1515
	26 Carbon Tetrachloride	117	9.937	9.942	(0.950)	472484	52.6110	52.6109
	27 1,2-Dichloroethane	62	9.987	9.992	(0.955)	464365	45.9414	45.9413
	28 Benzene	78	10.105	10.120	(0.966)	1487716	49.4518	49.4518
*	29 1,4-Difluorobenzene	114	10.460	10.465	(1.000)	1417615	50.0000	
	30 Trichloroethene	95	11.042	11.037	(1.056)	438967	49.5565	49.5565
$	31 Trifluorotoluene	146	11.081	11.076	(1.059)	1766	0.16778	0.1677(a)
	32 1,2-Dichloropropane	63	11.239	11.234	(1.074)	453591	48.8664	48.8663
	33 Bromodichloromethane	83	11.565	11.570	(1.106)	553850	48.9179	48.9178
	34 Dibromomethane	93	11.624	11.629	(1.111)	371982	49.2653	49.2652
	35 2-Chloroethylvinylether	63	11.969	11.974	(1.144)	96693	15.9815	15.9815
	36 4-Methyl-2-Pentanone	43	12.068	12.063	(1.154)	423491	50.9033	50.9033
	37 Tetramethyl THF	43	12.265	12.270	(1.173)	827588	49.0371	49.0370
	38 cis-1,3-Dichloropropene	75	12.393	12.398	(1.185)	665134	48.9804	48.9803
$	39 Toluene-d8	98	12.886	12.881	(1.232)	1384616	51.3483	51.3482
	40 Toluene	92	13.014	13.009	(1.244)	875596	50.6653	50.6652
	41 trans-1,3-Dichloropropene	75	13.162	13.157	(1.258)	550391	47.5955	47.5955
	42 1,1,2-Trichloroethane	85	13.438	13.434	(1.285)	253943	53.1839	53.1839
	43 2-Hexanone	43	13.448	13.453	(0.874)	300556	51.1560	51.1560
	44 1,3-Dichloropropane	76	13.843	13.838	(0.900)	575616	43.8598	43.8597
	45 Tetrachloroethene	166	14.149	14.153	(0.920)	412112	49.3691	49.3691
	46 Dibromochloromethane	129	14.316	14.321	(0.931)	524132	47.6500	47.6499
	47 1,2-Dibromoethane	107	14.671	14.676	(1.403)	486677	50.7335	50.7334
*	48 Chlorobenzene-d5	117	15.381	15.386	(1.000)	1227374	50.0000	
	49 Chlorobenzene	112	15.450	15.455	(1.004)	1020401	45.0779	45.0778
	50 1,1,1,2-Tetrachloroethane	131	15.500	15.505	(1.008)	395168	47.3066	47.3066
	51 Ethylbenzene	91	15.569	15.564	(1.012)	1702709	47.9984	47.9983
	52 m,p-Xylenes	106	15.707	15.712	(1.021)	1187827	92.1560	92.1560
	53 o-Xylene	106	16.466	16.471	(1.071)	565883	44.7807	44.7807
	54 Styrene	104	16.486	16.481	(1.072)	1016421	47.1619	47.1618
	55 Bromoform	173	17.009	17.004	(1.106)	384006	48.9663	48.9662
	56 Isopropylbenzene	105	17.107	17.112	(0.869)	1317807	43.4674	43.4674
	57 1,1,2,2-Tetrachloroethane	83	17.275	17.270	(0.878)	528723	45.2481	45.2481
$	58 Bromofluorobenzene	95	17.492	17.497	(0.889)	558957	48.9616	48.9616
	59 1,2,3-Trichloropropane	110	17.531	17.536	(0.891)	103507	45.7717	45.7717
	60 Propylbenzene	91	17.837	17.842	(0.906)	1936047	48.1463	48.1463
	61 Bromobenzene	156	17.867	17.872	(0.908)	513993	49.6018	49.6018
	62 1,3,5-Trimethylbenzene	105	18.123	18.128	(0.921)	1205694	48.5572	48.5571
	63 2-Chlorotoluene	91	18.133	18.138	(0.921)	1200023	45.5266	45.5266

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112104.b\IKL15.D
Report Date: 22-Nov-2004 08:41

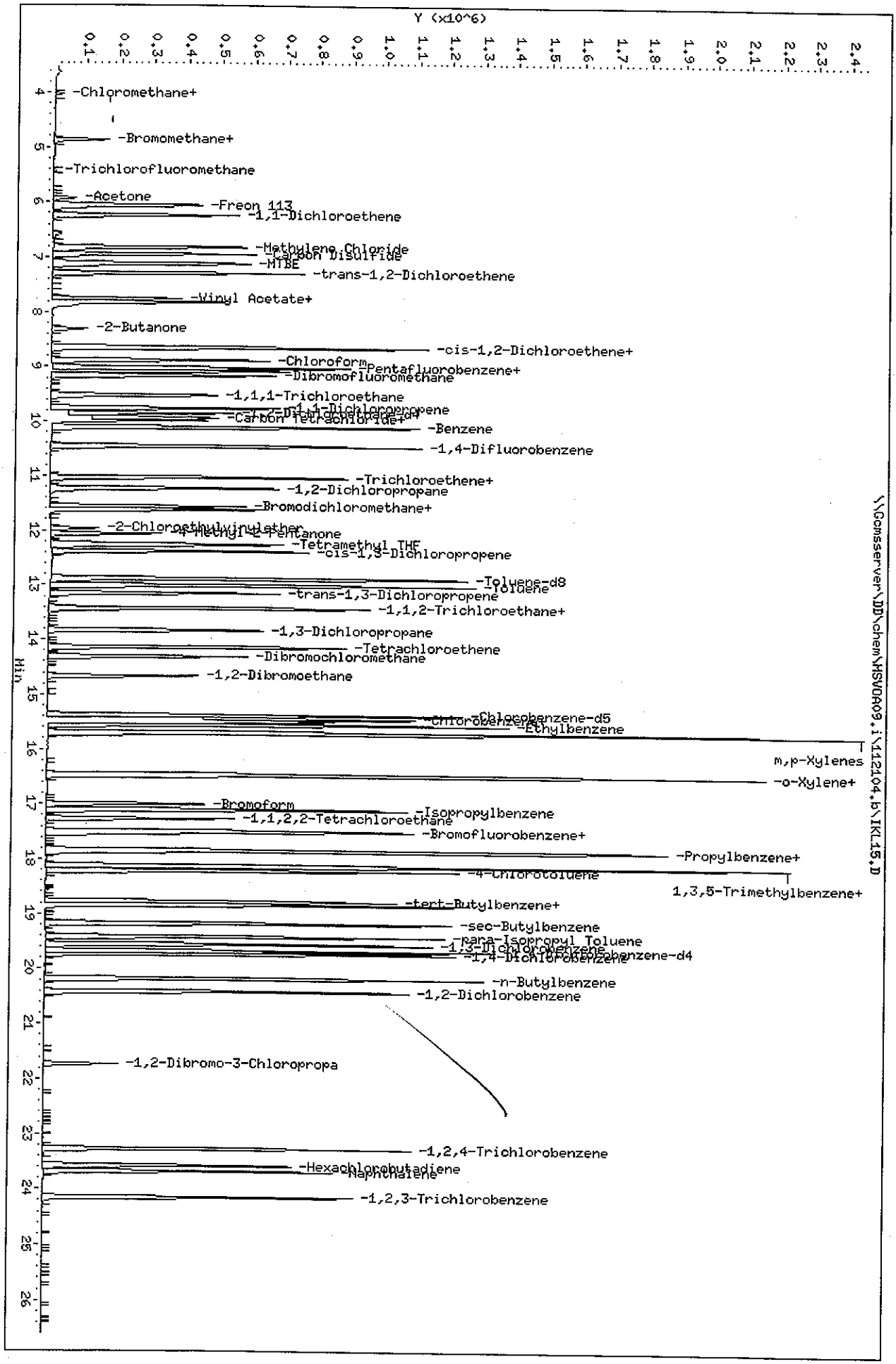
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 4-Chlorotoluene	91	18.222	18.227	(0.926)	1176809	46.7392	46.7392
65 tert-Butylbenzene	119	18.784	18.779	(0.954)	1011965	47.0889	47.0888
66 1,2,4-Trimethylbenzene	105	18.843	18.848	(0.957)	1244899	47.6374	47.6374
67 sec-Butylbenzene	105	19.188	19.183	(0.975)	1624968	46.3929	46.3929
68 para-Isopropyl Toluene	119	19.425	19.430	(0.987)	1207007	45.3776	45.3775
69 1,3-Dichlorobenzene	146	19.563	19.568	(0.994)	839317	47.8284	47.8283
* 70 1,4-Dichlorobenzene-d4	152	19.681	19.686	(1.000)	589573	50.0000	
71 1,4-Dichlorobenzene	146	19.740	19.745	(1.003)	842905	45.7034	45.7033
72 n-Butylbenzene	91	20.184	20.189	(1.026)	1344334	49.5568	49.5567
73 1,2-Dichlorobenzene	146	20.421	20.426	(1.038)	817042	47.2147	47.2146
74 1,2-Dibromo-3-Chloropropane	75	21.733	21.738	(1.104)	74962	48.6191	48.6191
75 1,2,4-Trichlorobenzene	180	23.281	23.286	(1.183)	567653	50.5959	50.5959
76 Hexachlorobutadiene	225	23.587	23.582	(1.198)	255308	52.5381	52.5380
77 Naphthalene	128	23.685	23.690	(1.203)	1118063	46.1011	46.1011
78 1,2,3-Trichlorobenzene	180	24.149	24.154	(1.227)	525159	50.6116	50.6115

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\Comsserver\DD\chem\MSVOA09.i\112104.b\IKL15.D
Date : 21-NOV-2004 21:54
Client ID: DYNA P&T
Sample Info: ICV,04WS1939B,5000X,04WS1940D,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB IDF : 1.0
Seqnum : 484474272006 Filename : iko06 Injected : 24-NOV-2004 10:58
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04SS408 (10000X), 04WS2167B (5000X), 04WS2204A (20000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.4061	0.4754	50.00000	58.53460	ug/L	17	30	0.0500	
Chloromethane	0.4857	0.4278	50.00000	44.03460	ug/L	-12	30	0.1000	
Vinyl Chloride	0.2991	0.2481	50.00000	41.47150	ug/L	-17	20	0.0500	
Bromomethane	0.1977	0.2362	50.00000	59.72080	ug/L	19	30	0.0500	
Chloroethane	0.2098	0.1951	50.00000	46.50240	ug/L	-7	30	0.0500	
Trichlorofluoromethane	0.5708	0.5632	50.00000	49.32980	ug/L	-1	30	0.0500	
Acetone	0.1320	0.1438	50.00000	54.45850	ug/L	9	40	0.0500	
Freon 113	0.3489	0.3209	50.00000	45.98170	ug/L	-8	30	0.0500	
1,1-Dichloroethene	0.3694	0.3153	50.00000	42.67210	ug/L	-15	20	0.0500	
Methylene Chloride	0.5140	0.4577	50.00000	44.52610	ug/L	-11	30	0.0500	
Carbon Disulfide	1.5383	1.3100	50.00000	42.57950	ug/L	-15	30	0.0500	
MTBE	0.9655	0.7781	50.00000	40.29430	ug/L	-19	30	0.0500	
trans-1,2-Dichloroethene	0.4406	0.3845	50.00000	43.63320	ug/L	-13	30	0.0500	
Vinyl Acetate	0.9121	0.8411	50.00000	46.10730	ug/L	-8	40	0.0500	
1,1-Dichloroethane	0.8512	0.7114	50.00000	41.78660	ug/L	-16	30	0.1000	
2-Butanone	0.2116	0.2044	50.00000	48.30800	ug/L	-3	40	0.0500	
2,2-Dichloropropane	0.5204	0.4544	50.00000	43.66220	ug/L	-13	30	0.0500	
cis-1,2-Dichloroethene	0.4923	0.4205	50.00000	42.71120	ug/L	-15	30	0.0500	
Chloroform	0.8465	0.7058	50.00000	41.69130	ug/L	-17	20	0.0500	
Bromochloromethane	0.3023	0.2555	50.00000	42.25350	ug/L	-15	30	0.0500	
1,1,1-Trichloroethane	0.5348	0.4748	50.00000	44.39220	ug/L	-11	30	0.0500	
1,1-Dichloropropene	0.3608	0.3306	50.00000	45.82320	ug/L	-8	30	0.0500	
Carbon Tetrachloride	0.3168	0.2832	50.00000	44.70450	ug/L	-11	30	0.0500	
1,2-Dichloroethane	0.3565	0.3267	50.00000	45.81280	ug/L	-8	30	0.0500	
Benzene	1.0611	0.9392	50.00000	44.25650	ug/L	-11	30	0.0500	
Trichloroethene	0.3124	0.2627	50.00000	42.04650	ug/L	-16	30	0.0500	
1,2-Dichloropropane	0.3274	0.3103	50.00000	47.38880	ug/L	-5	20	0.0500	
Bromodichloromethane	0.3993	0.3341	50.00000	41.82930	ug/L	-16	30	0.0500	
Dibromomethane	0.2663	0.2428	50.00000	45.58240	ug/L	-9	30	0.0500	
2-Chloroethylvinylether	0.2134	0.1951	50.00000	45.70170	ug/L	-9	40	0.0500	
4-Methyl-2-Pentanone	0.2934	0.2472	50.00000	42.12760	ug/L	-16	40	0.0500	
Tetramethyl THF	0.5953	0.5547	50.00000	46.59290	ug/L	-7	30	0.0500	
cis-1,3-Dichloropropene	0.4790	0.4450	50.00000	46.45490	ug/L	-7	30	0.0500	
Toluene	0.6095	0.5118	50.00000	41.97810	ug/L	-16	20	0.0500	
trans-1,3-Dichloropropene	0.4079	0.3744	50.00000	45.90080	ug/L	-8	30	0.0500	
1,1,2-Trichloroethane	0.1684	0.1467	50.00000	43.56110	ug/L	-13	30	0.0500	
2-Hexanone	0.2393	0.2640	50.00000	55.14960	ug/L	10	40	0.0500	
1,3-Dichloropropane	0.5346	0.5522	50.00000	51.64420	ug/L	3	30	0.0500	
Tetrachloroethene	0.3401	0.3438	50.00000	50.54530	ug/L	1	30	0.0500	
Dibromochloromethane	0.4481	0.4242	50.00000	47.33770	ug/L	-5	30	0.0500	
1,2-Dibromoethane	0.3383	0.2805	50.00000	41.45840	ug/L	-17	30	0.0500	
Chlorobenzene	0.9221	0.9078	50.00000	49.22350	ug/L	-2	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3403	0.3330	50.00000	48.93010	ug/L	-2	30	0.0500	
Ethylbenzene	1.4451	1.3181	50.00000	45.60570	ug/L	-9	20	0.0500	
m,p-Xylenes	0.5251	0.4930	100.0000	93.88770	ug/L	-6	30	0.0500	
o-Xylene	0.5148	0.4819	50.00000	46.80880	ug/L	-6	30	0.0500	

pro 11/24/04

11/29

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB IDF : 1.0
Seqnum : 484474272006 Filename : iko06 Injected : 24-NOV-2004 10:58
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04SS408 (10000X), 04WS2167B (5000X), 04WS2204A (20000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.8780	0.8494	50.00000	48.37480	ug/L	-3	30	0.0500	
Bromoform	0.3195	0.3161	50.00000	49.47640	ug/L	-1	30	0.1000	
Isopropylbenzene	2.5711	2.4542	50.00000	47.72690	ug/L	-5	30	0.0500	
1,1,2,2-Tetrachloroethane	0.9910	1.0088	50.00000	50.89970	ug/L	2	30	0.3000	
1,2,3-Trichloropropane	0.1918	0.1949	50.00000	50.81270	ug/L	2	30	0.0500	
Propylbenzene	3.4102	3.6019	50.00000	52.81010	ug/L	6	30	0.0500	
Bromobenzene	0.8788	0.8470	50.00000	48.19110	ug/L	-4	30	0.0500	
1,3,5-Trimethylbenzene	2.1058	2.2670	50.00000	53.82690	ug/L	8	30	0.0500	
2-Chlorotoluene	2.2354	2.3330	50.00000	52.18240	ug/L	4	30	0.0500	
4-Chlorotoluene	2.1353	2.2810	50.00000	53.41120	ug/L	7	30	0.0500	
tert-Butylbenzene	1.8225	1.8054	50.00000	49.52970	ug/L	-1	30	0.0500	
1,2,4-Trimethylbenzene	2.2162	2.2921	50.00000	51.71100	ug/L	3	30	0.0500	
sec-Butylbenzene	2.9705	3.1741	50.00000	53.42820	ug/L	7	30	0.0500	
para-Isopropyl Toluene	2.2558	2.2812	50.00000	50.56260	ug/L	1	30	0.0500	
1,3-Dichlorobenzene	1.4882	1.4761	50.00000	49.59260	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	1.5641	1.4918	50.00000	47.68800	ug/L	-5	30	0.0500	
n-Butylbenzene	2.3006	2.4721	50.00000	53.72840	ug/L	7	30	0.0500	
1,2-Dichlorobenzene	1.4676	1.4380	50.00000	48.99210	ug/L	-2	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1308	0.1302	50.00000	49.77510	ug/L	0	30	0.0500	
1,2,4-Trichlorobenzene	0.9515	0.9694	50.00000	50.94400	ug/L	2	30	0.0500	
Hexachlorobutadiene	0.4121	0.4201	50.00000	50.97060	ug/L	2	30	0.0500	
Naphthalene	2.0568	1.9762	50.00000	48.04190	ug/L	-4	30	0.0500	
1,2,3-Trichlorobenzene	0.8800	0.8978	50.00000	51.00990	ug/L	2	30	0.0500	
Dibromofluoromethane	0.6746	0.6705	50.00000	49.69550	ug/L	-1	30	0.0500	
1,2-Dichloroethane-d4	0.3693	0.3540	50.00000	47.92780	ug/L	-4	30	0.0500	
Trifluorotoluene	0.3713	0.3050	50.00000	41.07290	ug/L	-18	30	0.0500	
Toluene-d8	0.9511	0.9110	50.00000	47.89430	ug/L	-4	30	0.0500	
Bromofluorobenzene	0.9682	0.9976	50.00000	51.51890	ug/L	3	30	0.0500	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	960388	-3.26	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1462120	-1.76	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1044881	-12.81	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	487985	-14.12	19.69	19.66	-0.03

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO06.D
Report Date: 24-Nov-2004 12:01

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO06.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 10:58 MS Autotune Date: 19-OCT-2004 13:26
Operator : BO Inst ID: MSVOA09.i
Smp Info : CCV,04SS408,0.010/100,04WS2167B,0.020/100,
Misc Info : 04WS2204A,0.005/100,50PPB
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\I9M826W.m
Meth Date : 24-Nov-2004 12:01 tapsvc Quant Type: ISTD
Cal Date : 21-NOV-2004 20:40 Cal File: IKL13.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

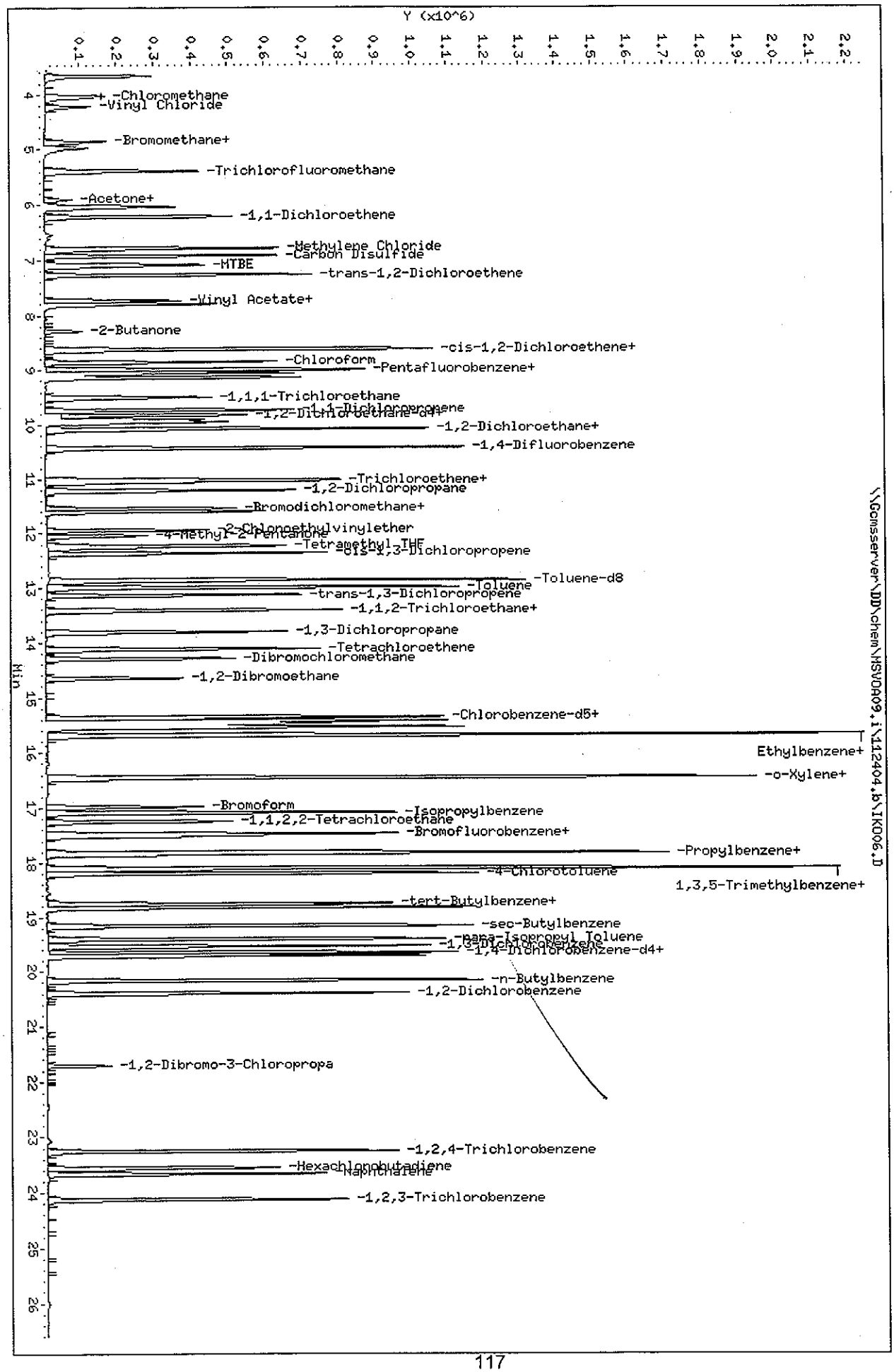
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.660	3.680	(0.407)	456564	50.0000	58.5346
2 Chloromethane	50	4.025	4.065	(0.447)	410831	50.0000	44.0345
3 Vinyl Chloride	62	4.212	4.232	(0.468)	238260	50.0000	41.4715
4 Bromomethane	94	4.853	4.883	(0.540)	226797	50.0000	59.7207
5 Chloroethane	64	4.971	5.002	(0.553)	187375	50.0000	46.5024
6 Trichlorofluoromethane	101	5.396	5.416	(0.600)	540852	50.0000	49.3297
7 Acetone	43	5.899	5.929	(0.656)	138077	50.0000	54.4585
8 Freon 113	101	6.037	6.057	(0.671)	308181	50.0000	45.9817
9 1,1-Dichloroethene	96	6.224	6.244	(0.692)	302793	50.0000	42.6721
10 Methylene Chloride	84	6.786	6.816	(0.754)	439589	50.0000	44.5260
11 Carbon Disulfide	76	6.924	6.955	(0.770)	1258099	50.0000	42.5794
12 MTBE	73	7.092	7.122	(0.788)	747277	50.0000	40.2943
13 trans-1,2-Dichloroethene	96	7.269	7.300	(0.808)	369239	50.0000	43.6332
14 Vinyl Acetate	43	7.733	7.763	(0.860)	807743	50.0000	46.1073
15 1,1-Dichloroethane	63	7.792	7.822	(0.866)	683176	50.0000	41.7866
16 2-Butanone	43	8.285	8.316	(0.921)	196334	50.0000	48.3079

Data File: \\GCMSSERVER\DD\chem\MSVOA09.i\112404.b\IKO06.D
Report Date: 24-Nov-2004 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.630	8.651	(0.959)	403862	50.0000	42.7112
	18 2,2-Dichloropropane	77	8.621	8.651	(0.958)	436409	50.0000	43.6621
	19 Chloroform	83	8.857	8.887	(0.985)	677857	50.0000	41.6913
*	20 Pentafluorobenzene	168	8.995	9.026	(1.000)	960388	50.0000	
	21 Bromochloromethane	128	9.055	9.085	(1.007)	245339	50.0000	42.2535
$	22 Dibromofluoromethane	113	9.133	9.164	(1.015)	643969	50.0000	49.6954
	23 1,1,1-Trichloroethane	97	9.498	9.529	(1.056)	455974	50.0000	44.3922
	24 1,1-Dichloropropene	75	9.735	9.765	(0.933)	483439	50.0000	45.8232
$	25 1,2-Dichloroethane-d4	65	9.834	9.854	(0.942)	517581	50.0000	47.9277
	26 Carbon Tetrachloride	117	9.912	9.943	(0.950)	414082	50.0000	44.7044
	27 1,2-Dichloroethane	62	9.962	9.992	(0.955)	477603	50.0000	45.8127
	28 Benzene	78	10.080	10.120	(0.966)	1373220	50.0000	44.2565
*	29 1,4-Difluorobenzene	114	10.435	10.465	(1.000)	1462120	50.0000	
	30 Trichloroethene	95	11.007	11.037	(1.055)	384137	50.0000	42.0464
$	31 Trifluorotoluene	146	11.057	11.077	(1.060)	445990	50.0000	41.0729
	32 1,2-Dichloropropane	63	11.214	11.235	(1.075)	453685	50.0000	47.3887
	33 Bromodichloromethane	83	11.540	11.570	(1.106)	488461	50.0000	41.8292
	34 Dibromomethane	93	11.599	11.629	(1.112)	354979	50.0000	45.5823
	35 2-Chloroethylvinylether	63	11.944	11.974	(1.145)	285191	50.0000	45.7016
	36 4-Methyl-2-Pentanone	43	12.043	12.063	(1.154)	361484	50.0000	42.1275
	37 Tetramethyl THF	43	12.240	12.270	(1.173)	811025	50.0000	46.5929
	38 cis-1,3-Dichloropropene	75	12.368	12.398	(1.185)	650644	50.0000	46.4548
$	39 Toluene-d8	98	12.861	12.882	(1.232)	1332025	50.0000	47.8942
	40 Toluene	92	12.990	13.010	(1.245)	748240	50.0000	41.9780
	41 trans-1,3-Dichloropropene	75	13.137	13.158	(1.259)	547458	50.0000	45.9008
	42 1,1,2-Trichloroethane	85	13.414	13.434	(1.285)	214526	50.0000	43.5611
	43 2-Hexanone	43	13.423	13.454	(0.874)	275842	50.0000	55.1495
	44 1,3-Dichloropropane	76	13.808	13.838	(0.899)	577003	50.0000	51.6442
	45 Tetrachloroethene	166	14.124	14.154	(0.920)	359196	50.0000	50.5453
	46 Dibromochloromethane	129	14.291	14.322	(0.931)	443277	50.0000	47.3377
	47 1,2-Dibromoethane	107	14.646	14.677	(1.404)	410189	50.0000	41.4584
*	48 Chlorobenzene-d5	117	15.356	15.387	(1.000)	1044881	50.0000	
	49 Chlorobenzene	112	15.426	15.456	(1.004)	948572	50.0000	49.2235
	50 1,1,1,2-Tetrachloroethane	131	15.475	15.505	(1.008)	347958	50.0000	48.9300
	51 Ethylbenzene	91	15.544	15.564	(1.012)	1377283	50.0000	45.6057
	52 m,p-Xylenes	106	15.682	15.712	(1.021)	1030216	100.000	93.8876
	53 o-Xylene	106	16.441	16.472	(1.071)	503563	50.0000	46.8088
	54 Styrene	104	16.461	16.481	(1.072)	887548	50.0000	48.3747
	55 Bromoform	173	16.974	17.004	(1.105)	330316	50.0000	49.4763
	56 Isopropylbenzene	105	17.092	17.113	(0.870)	1197621	50.0000	47.7268
	57 1,1,2,2-Tetrachloroethane	83	17.250	17.270	(0.878)	492279	50.0000	50.8997
$	58 Bromofluorobenzene	95	17.477	17.497	(0.889)	486809	50.0000	51.5189
	59 1,2,3-Trichloropropane	110	17.506	17.537	(0.891)	95107	50.0000	50.8127
	60 Propylbenzene	91	17.812	17.842	(0.906)	1757677	50.0000	52.8101
	61 Bromobenzene	156	17.842	17.872	(0.908)	413328	50.0000	48.1910
	62 1,3,5-Trimethylbenzene	105	18.108	18.128	(0.921)	1106245	50.0000	53.8268
	63 2-Chlorotoluene	91	18.118	18.138	(0.922)	1138458	50.0000	52.1824

Data File: \\Ccmsserver\DD\chem\MSVOA09.i\112404.b\IK006.D
Date : 24-NOV-2004 10:58
Client ID: DYNA P&T
Sample Info: CCV,04SS408,0.010/100,04WS2167B,0.020/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA09.i
Operator: BO
Column diameter: 0.32



SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Instid	: MSVOA09
Seqnum	: 484474272006	Seqnum	: 484474272007
Filename	: iko06	Filename	: iko07
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: CCV/BS	Run type	: BSD
Samplenum	: QC273796	Samplenum	: QC273797
Matrix	: Water	Matrix	: Water
Batchnum	: 96868	Batchnum	: 96868
Inj	: 24-NOV-2004 10:58	Inj	: 24-NOV-2004 11:32
Caltype	: WATER	Caltype	: WATER

Analyte	Spike Conc	CCV/BS	%Rec	BSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,1-Dichloroethene	50.00	42.67	85	44.64	89	75-120	ug/L	5	20	
Benzene	50.00	44.26	89	46.21	92	79-120	ug/L	4	20	
Trichloroethene	50.00	42.05	84	45.26	91	79-120	ug/L	7	20	
Toluene	50.00	41.98	84	46.19	92	80-120	ug/L	10	20	
Chlorobenzene	50.00	49.22	98	49.29	99	80-120	ug/L	0	20	
Freon 12	50.00	58.53	117	54.26	109	43-120	ug/L	8	21	v- b*
Chloromethane	50.00	44.03	88	43.44	87	53-120	ug/L	1	21	!v-
Vinyl Chloride	50.00	41.47	83	44.94	90	58-120	ug/L	8	22	
Bromomethane	50.00	59.72	119	60.84	122	51-148	ug/L	2	27	
Chloroethane	50.00	46.50	93	45.41	91	65-120	ug/L	2	20	
Trichlorofluoromethane	50.00	49.33	99	44.52	89	73-126	ug/L	10	20	
Acetone	50.00	54.46	109	53.03	106	53-149	ug/L	3	29	
Freon 113	50.00	45.98	92	42.99	86	75-129	ug/L	7	20	
Methylene Chloride	50.00	44.53	89	42.29	85	75-120	ug/L	5	20	
MTBE	50.00	40.29	81	41.09	82	74-128	ug/L	2	20	
Carbon Disulfide	50.00	42.58	85	44.95	90	71-121	ug/L	5	20	!v-
trans-1,2-Dichloroethene	50.00	43.63	87	43.93	88	76-120	ug/L	1	20	
Vinyl Acetate	50.00	46.11	92	49.01	98	48-120	ug/L	6	20	
1,1-Dichloroethane	50.00	41.79	84	42.64	85	74-120	ug/L	2	20	
2-Butanone	50.00	48.31	97	47.69	95	66-133	ug/L	1	20	
cis-1,2-Dichloroethene	50.00	42.71	85	42.51	85	78-121	ug/L	0	20	
2,2-Dichloropropane	50.00	43.66	87	42.55	85	70-145	ug/L	3	20	
Chloroform	50.00	41.69	83	41.21	82	76-120	ug/L	1	20	
Bromochloromethane	50.00	42.25	85	44.22	88	77-120	ug/L	5	20	
1,1,1-Trichloroethane	50.00	44.39	89	42.27	85	77-124	ug/L	5	20	
1,1-Dichloropropene	50.00	45.82	92	45.91	92	79-120	ug/L	0	20	
Carbon Tetrachloride	50.00	44.70	89	43.89	88	78-128	ug/L	2	20	
1,2-Dichloroethane	50.00	45.81	92	45.62	91	76-120	ug/L	0	20	
1,2-Dichloropropane	50.00	47.39	95	50.10	100	75-120	ug/L	6	20	
Bromodichloromethane	50.00	41.83	84	44.31	89	80-130	ug/L	6	20	
Dibromomethane	50.00	45.58	91	46.03	92	80-120	ug/L	1	20	
4-Methyl-2-Pentanone	50.00	42.13	84	46.30	93	68-126	ug/L	9	20	
cis-1,3-Dichloropropene	50.00	46.45	93	46.88	94	80-125	ug/L	1	20	
trans-1,3-Dichloropropene	50.00	45.90	92	45.99	92	78-121	ug/L	0	20	
1,1,2-Trichloroethane	50.00	43.56	87	44.76	90	80-120	ug/L	3	20	
2-Hexanone	50.00	55.15	110	52.68	105	70-131	ug/L	5	21	
1,3-Dichloropropane	50.00	51.64	103	51.34	103	79-120	ug/L	1	20	
Tetrachloroethene	50.00	50.55	101	50.74	101	80-125	ug/L	0	20	
Dibromochloromethane	50.00	47.34	95	49.60	99	80-121	ug/L	5	20	

!=warning -=low bias b=noncompliant v=ICV

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Instid	: MSVOA09
Seqnum	: 484474272006	Seqnum	: 484474272007
Filename	: iko06	Filename	: iko07
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: CCV/BS	Run type	: BSD
Samplenum	: QC273796	Samplenum	: QC273797
Matrix	: Water	Matrix	: Water
Batchnum	: 96868	Batchnum	: 96868
Inj	: 24-NOV-2004 10:58	Inj	: 24-NOV-2004 11:32
Caltype	: WATER	Caltype	: WATER

Analyte	Spike Conc	CCV/BS	%Rec	BSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,2-Dibromoethane	50.00	41.46	83	45.41	91	77-120	ug/L	9	20	
1,1,1,2-Tetrachloroethane	50.00	48.93	98	47.31	95	80-120	ug/L	3	20	
Ethylbenzene	50.00	45.61	91	46.99	94	80-121	ug/L	3	20	
m,p-Xylenes	100.0	93.89	94	91.10	91	80-120	ug/L	3	20	
o-Xylene	50.00	46.81	94	50.76	102	80-120	ug/L	8	20	
Styrene	50.00	48.37	97	52.55	105	80-125	ug/L	8	20	
Bromoform	50.00	49.48	99	49.07	98	77-126	ug/L	1	20	
Isopropylbenzene	50.00	47.73	95	56.56	113	73-120	ug/L	17	20	
1,1,2,2-Tetrachloroethane	50.00	50.90	102	53.23	106	74-120	ug/L	4	20	
1,2,3-Trichloropropane	50.00	50.81	102	54.15	108	73-120	ug/L	6	20	
Propylbenzene	50.00	52.81	106	53.62	107	79-123	ug/L	2	20	
Bromobenzene	50.00	48.19	96	48.87	98	80-120	ug/L	1	20	
1,3,5-Trimethylbenzene	50.00	53.83	108	51.58	103	79-124	ug/L	4	20	
2-Chlorotoluene	50.00	52.18	104	51.17	102	79-120	ug/L	2	20	
4-Chlorotoluene	50.00	53.41	107	53.12	106	78-120	ug/L	1	20	
tert-Butylbenzene	50.00	49.53	99	55.17	110	80-124	ug/L	11	20	
1,2,4-Trimethylbenzene	50.00	51.71	103	55.29	111	80-128	ug/L	7	20	
sec-Butylbenzene	50.00	53.43	107	50.98	102	78-126	ug/L	5	20	
para-Isopropyl Toluene	50.00	50.56	101	51.35	103	75-124	ug/L	2	20	
1,3-Dichlorobenzene	50.00	49.59	99	52.77	106	80-120	ug/L	6	20	
1,4-Dichlorobenzene	50.00	47.69	95	50.36	101	80-120	ug/L	5	20	
n-Butylbenzene	50.00	53.73	107	52.07	104	70-137	ug/L	3	20	
1,2-Dichlorobenzene	50.00	48.99	98	53.42	107	80-120	ug/L	9	20	
1,2-Dibromo-3-Chloropropane	50.00	49.78	100	52.73	105	69-130	ug/L	6	20	
1,2,4-Trichlorobenzene	50.00	50.94	102	52.63	105	70-136	ug/L	3	20	
Hexachlorobutadiene	50.00	50.97	102	51.93	104	76-136	ug/L	2	20	
Naphthalene	50.00	48.04	96	50.76	102	59-153	ug/L	6	21	
1,2,3-Trichlorobenzene	50.00	51.01	102	53.28	107	70-139	ug/L	4	20	
Dibromofluoromethane	50.00	49.70	99	46.64	93	80-120	ug/L	--		
1,2-Dichloroethane-d4	50.00	47.93	96	50.94	102	80-120	ug/L	--		
Toluene-d8	50.00	47.89	96	49.63	99	80-120	ug/L	--		
Bromofluorobenzene	50.00	51.52	103	54.41	109	80-122	ug/L	--		
Trifluorotoluene	0.05000	0.04107	82	0.04291	86		ug/ml	--		

!=warning -=low bias b=noncompliant v=ICV

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Instid	: MSVOA09
Seqnum	: 484474272006	Seqnum	: 484474272007
Filename	: iko06	Filename	: iko07
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: CCV/BS	Run type	: BSD
Samplenum	: QC273796	Samplenum	: QC273797
Matrix	: Water	Matrix	: Water
Batchnum	: 96868	Batchnum	: 96868
Inj	: 24-NOV-2004 10:58	Inj	: 24-NOV-2004 11:32
Caltype	: WATER	Caltype	: WATER

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	960388	-3.26	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1462120	-1.76	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1044881	-12.81	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	487985	-14.12	19.69	19.66	-0.03

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	984205	-0.86	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1442187	-3.10	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1065734	-11.07	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	472902	-16.77	19.69	19.66	-0.03

!=warning -=low bias b=noncompliant v=ICV

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Samplenum	: QC273798	Cident	:
Seqnum	: 484474272009	Matrix	: Water	Acctnum	: QC
Filename	: iko09	Batchnum	: 96868	Injected	: 24-NOV-2004 12:45
IDF	: 1.0	PDF	: 1.0		
Calnum	: 484470109001	Caldate	: 21-NOV-2004	Caltype	: WATER

Analyte	Result	RTS	RL	Units	Flags
1,1-Dichloroethene	ND		0.50	ug/L	u
Benzene	ND		0.50	ug/L	u
Trichloroethene	ND		0.50	ug/L	u
Toluene	ND		0.50	ug/L	u
Chlorobenzene	ND		0.50	ug/L	u
Freon 12	ND		1.0	ug/L	u v-
Chloromethane	ND		1.0	ug/L	!v- u
Vinyl Chloride	ND		0.50	ug/L	u
Bromomethane	0.76 J		1.0	ug/L	B m u
Chloroethane	ND		1.0	ug/L	u
Trichlorofluoromethane	ND		1.0	ug/L	u
Acetone	~~0.37 J~~ no Rult m		5.0	ug/L	u
Freon 113	~~ND~~		0.50	ug/L	u
Methylene Chloride	ND		1.0	ug/L	u
MTBE	ND		0.50	ug/L	u
Carbon Disulfide	ND		0.50	ug/L	!v- u
trans-1,2-Dichloroethene	ND		0.50	ug/L	u
Vinyl Acetate	ND		10	ug/L	u
1,1-Dichloroethane	ND		0.50	ug/L	u
2-Butanone	ND		5.0	ug/L	u
cis-1,2-Dichloroethene	ND		0.50	ug/L	u
2,2-Dichloropropane	ND		0.50	ug/L	u
Chloroform	ND		0.50	ug/L	u
Bromochloromethane	ND		0.50	ug/L	u
1,1,1-Trichloroethane	ND		0.50	ug/L	u
1,1-Dichloropropene	ND		0.50	ug/L	u
Carbon Tetrachloride	ND		0.50	ug/L	u
1,2-Dichloroethane	ND		0.50	ug/L	u
1,2-Dichloropropane	ND		0.50	ug/L	u
Bromodichloromethane	ND		0.50	ug/L	u
Dibromomethane	ND		0.50	ug/L	u
4-Methyl-2-Pentanone	ND		5.0	ug/L	u
cis-1,3-Dichloropropene	ND		0.50	ug/L	u
trans-1,3-Dichloropropene	ND		0.50	ug/L	u
1,1,2-Trichloroethane	ND		0.50	ug/L	u
2-Hexanone	ND		5.0	ug/L	u
1,3-Dichloropropane	ND		0.50	ug/L	u
Tetrachloroethene	ND		0.50	ug/L	u
Dibromochloromethane	ND		0.50	ug/L	u
1,2-Dibromoethane	ND		0.50	ug/L	u
2-Chloroethylvinylether	ND		1.0	ug/L	u v-
1,1,1,2-Tetrachloroethane	ND		0.50	ug/L	u
Ethylbenzene	ND		0.50	ug/L	u
m,p-Xylenes	ND		0.50	ug/L	u
o-Xylene	ND		0.50	ug/L	u

!=warning -=low bias B=method blank contamination m=manual integration u=use v=ICV

12 11/24/04

11/29/04

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA09	Samplenum	: QC273798	Cident	:
Seqnum	: 484474272009	Matrix	: Water	Acctnum	: QC
Filename	: iko09	Batchnum	: 96868	Injected	: 24-NOV-2004 12:45
IDF	: 1.0	PDF	: 1.0		
Calnum	: 484470109001	Caldate	: 21-NOV-2004	Caltype	: WATER

Analyte	Result	RTS	RL	Units	Flags
Styrene	ND		0.50	ug/L	u
Bromoform	ND		0.50	ug/L	u
Isopropylbenzene	ND		0.50	ug/L	u
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L	u
1,2,3-Trichloropropane	ND		0.50	ug/L	u
Propylbenzene	ND		0.50	ug/L	u
Bromobenzene	ND		0.50	ug/L	u
1,3,5-Trimethylbenzene	ND		0.50	ug/L	u
2-Chlorotoluene	ND		0.50	ug/L	u
4-Chlorotoluene	ND		0.50	ug/L	u
tert-Butylbenzene	ND		0.50	ug/L	u
1,2,4-Trimethylbenzene	ND		0.50	ug/L	u
sec-Butylbenzene	ND		0.50	ug/L	u
para-Isopropyl Toluene	ND		0.50	ug/L	u
1,3-Dichlorobenzene	ND		0.50	ug/L	u
1,4-Dichlorobenzene	ND		0.50	ug/L	u
n-Butylbenzene	ND		0.50	ug/L	u
1,2-Dichlorobenzene	ND		0.50	ug/L	u
1,2-Dibromo-3-Chloropropane	ND		0.50	ug/L	u
1,2,4-Trichlorobenzene	ND		0.50	ug/L	u
Hexachlorobutadiene	ND		0.50	ug/L	u
Naphthalene	ND		0.50	ug/L	u
1,2,3-Trichlorobenzene	ND		0.50	ug/L	u
Tetramethyl THF	ND		0.50	ug/L	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Units	Flags
Dibromofluoromethane	50.00	49.29	99	80-120	ug/L	u
1,2-Dichloroethane-d4	50.00	48.44	97	80-120	ug/L	u
Toluene-d8	50.00	48.49	97	80-120	ug/L	u
Bromofluorobenzene	50.00	53.87	108	80-122	ug/L	u
Trifluorotoluene	NS	ND	--		ug/ml	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	983794	-0.90	9.03	9.00	-0.03
1,4-Difluorobenzene	1488261	1517129	1.94	10.46	10.43	-0.03
Chlorobenzene-d5	1198447	1113447	-7.09	15.39	15.36	-0.03
1,4-Dichlorobenzene-d4	568204	479479	-15.61	19.69	19.66	-0.03

!=warning -=low bias B=method blank contamination m=manual integration u=use ,v=ICV

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176248
Purgeable Organics by GC/MS
Matrix: Soil

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio

Sample ID	Lab ID
BB3EX153[0.5]	176248-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/5/05
Operations Manager

Signature: _____ Date: 1/5/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE
VOLATILE ORGANICS BY GC/MS (EPA 8260B)
SOIL

Laboratory number:	176248
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio
Request Date:	11/23/04
Samples Received:	11/23/04

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 11/23/04. The sample was received cold and intact.

Volatile Organics by GC/MS (EPA 8260B) Soil:
No analytical problems were encountered.

Chain of Custody

176248

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 28973.12
Project Manager\Contact: Sirinda Rainis
Samplers: Mike Chambers (MC)
Recorder (Signature Required):

Turnaround Time: * 48 hr

Analysis Requested

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Metals	PCBs	Pesticides	VOCs	SVOCs	Mercury	Chlor. Herb.	TPH-d	TPH-g				Silica gel clean-up	Hold	Remarks
BB3EX154[0.5]	11/23/04	1241		X						1		X	X	X												~~MS/MSD~~
DUP112304A		1242		X						1		X	X	X												
BB3EX153[0.5]		1251		X						1		X	X	X	X	X	X	X	X	X				X		* 5 day TAT MS/MSD
BB3EX151[0.5]		1254		X						1		X	X	X												
BB3EX152[0.5]		1257		X						1		X	X	X												MS/MSD
TB112304A		1315		X			2								X											

Level IV data package
sample all fractions from one jar labeled with a "B"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/23/04	1455	Tony Fox	11/23/04	1455
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002247

4

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176248 Date Received: 11/23/04 Number of Coolers: 1
Client: Treadwell + Rolo Project: Presidio Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO N/A
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: on ice

B. Login Phase
Date Logged In: 11/23/04 By (print): [illegible] (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bag
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Curtis & Tompkins, Ltd.

SAMPLE DATA SUMMARY PACKAGE

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX153[0.5]	Diln Fac:	0.9259
Lab ID:	176248-003	Batch#:	96931
Matrix:	Soil	Sampled:	11/23/04
Units:	ug/Kg	Received:	11/23/04
Basis:	dry	Analyzed:	11/29/04

Moisture: 2%

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX153[0.5]	Diln Fac:	0.9259
Lab ID:	176248-003	Batch#:	96931
Matrix:	Soil	Sampled:	11/23/04
Units:	ug/Kg	Received:	11/23/04
Basis:	dry	Analyzed:	11/29/04

Analyte	Result	RL
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	97	59-113
1,2-Dichloroethane-d4	107	70-121
Toluene-d8	103	84-138
Bromofluorobenzene	98	59-113

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC274068	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96931
Units:	ug/Kg	Analyzed:	11/29/04

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC274068	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96931
Units:	ug/Kg	Analyzed:	11/29/04

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	59-113
1,2-Dichloroethane-d4	101	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	95	59-113

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC274067	Diln Fac:	1.000
Matrix:	Soil	Batch#:	96931
Units:	ug/Kg	Analyzed:	11/29/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	53.25	106	65-135
Benzene	50.00	48.61	97	65-135
Trichloroethene	50.00	52.68	105	65-135
Toluene	50.00	51.30	103	65-135
Chlorobenzene	50.00	50.47	101	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	97	59-113
1,2-Dichloroethane-d4	98	70-121
Toluene-d8	102	84-138
Bromofluorobenzene	96	59-113

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176248	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8260B
Field ID:	BB3EX153[0.5]	Diln Fac:	0.9259
MSS Lab ID:	176248-003	Batch#:	96931
Matrix:	Soil	Sampled:	11/23/04
Units:	ug/Kg	Received:	11/23/04
Basis:	dry	Analyzed:	11/29/04

Type: MS Moisture: 2%
Lab ID: QC274118

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6633	47.24	42.00	89	65-135
Benzene	<0.5408	47.24	42.09	89	65-135
Trichloroethene	<0.5102	47.24	44.41	94	65-135
Toluene	<0.4490	47.24	42.61	90	65-135
Chlorobenzene	<0.5510	47.24	39.91	84	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-113
1,2-Dichloroethane-d4	100	70-121
Toluene-d8	101	84-138
Bromofluorobenzene	100	59-113

Type: MSD Moisture: 2%
Lab ID: QC274119

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	47.24	45.04	95	65-135	7	35
Benzene	47.24	43.08	91	65-135	2	35
Trichloroethene	47.24	45.73	97	65-135	3	35
Toluene	47.24	42.77	91	65-135	0	35
Chlorobenzene	47.24	40.40	86	65-135	1	35

Surrogate	%REC	Limits
Dibromofluoromethane	101	59-113
1,2-Dichloroethane-d4	98	70-121
Toluene-d8	99	84-138
Bromofluorobenzene	99	59-113

RPD= Relative Percent Difference

Data File: \\GCHSSERVER\DD\chem\MSVOA02.i\102804.b\BJS11.D MS VOA 2 8260/60X S 1GAL TUNE

Date : 28-OCT-2004 17:12

Client ID: bfb tune std

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

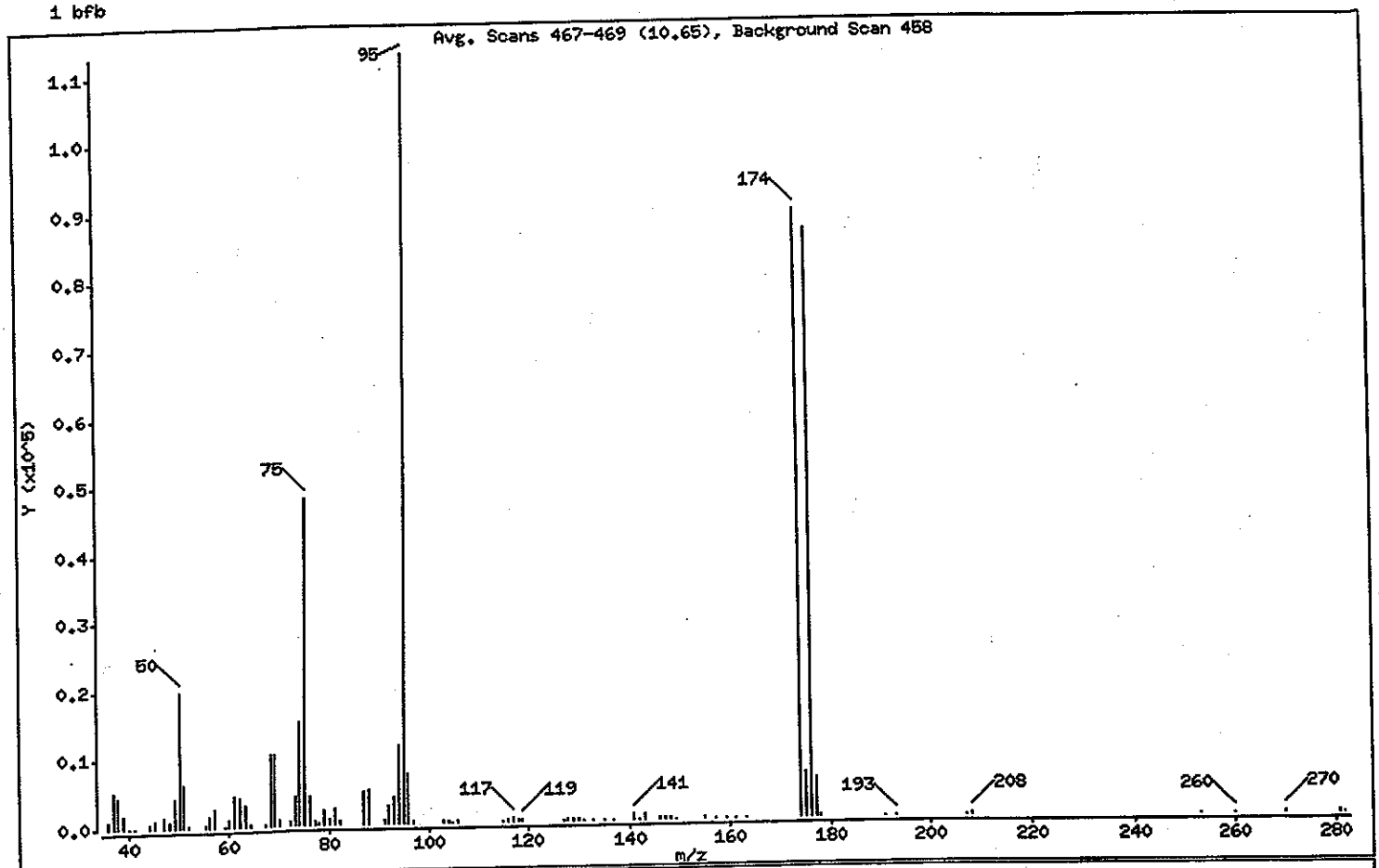
Column phase:

Instrument: MSVOA02.i

Operator: AJA

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.44
75	30.00 - 60.00% of mass 95	42.57
96	5.00 - 9.00% of mass 95	6.51
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	79.19
175	5.00 - 9.00% of mass 174	5.65 (7.14)
176	95.01 - 100.99% of mass 174	76.65 (96.79)
177	5.00 - 9.00% of mass 176	5.07 (6.61)

10/28/04

11/02/04

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT06.D

Date : 29-NOV-2004 12:07

Client ID: bfb tune std

Instrument: MSVOA02.i

Sample Info: BFB,04WS1238

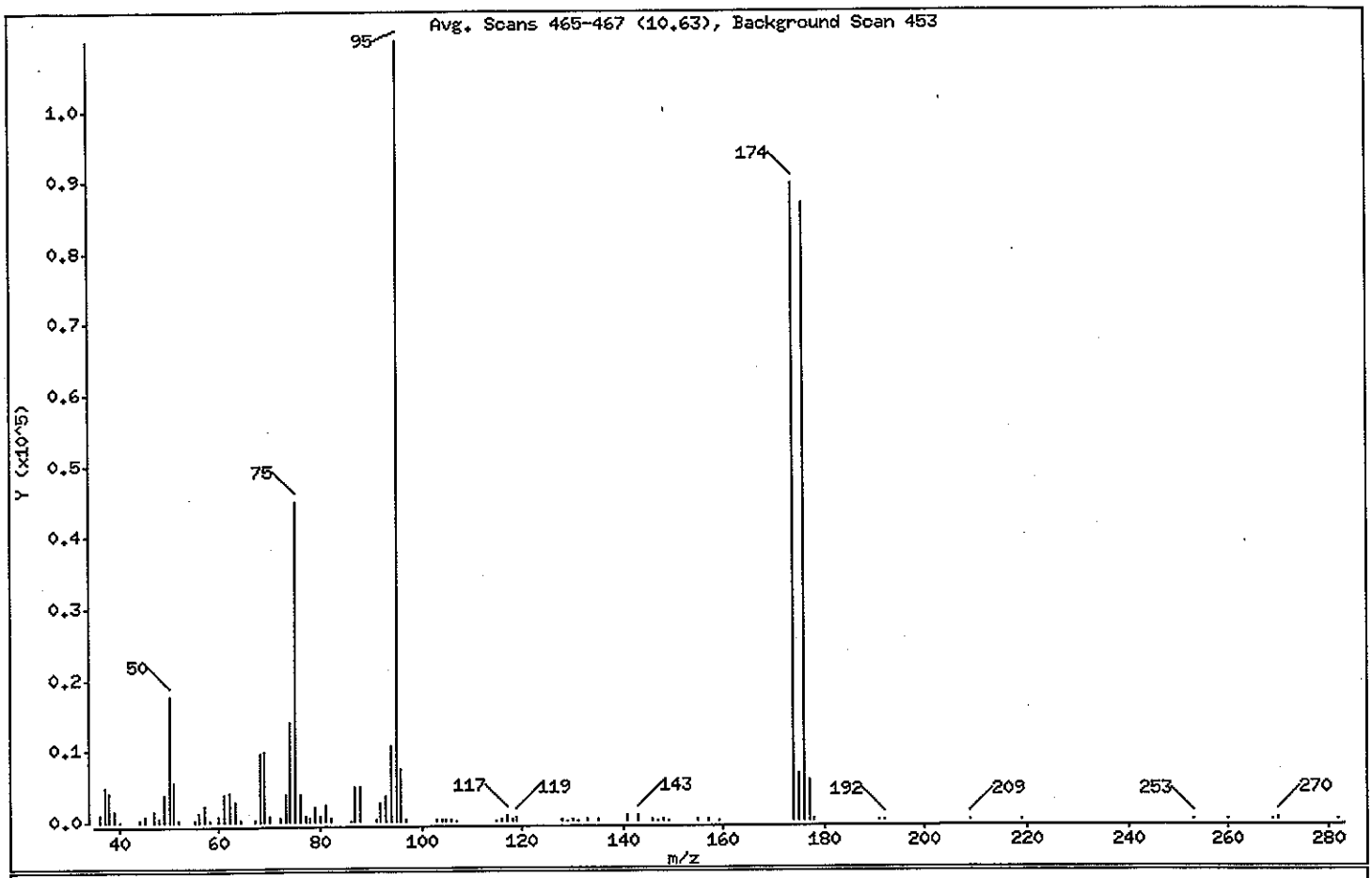
Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.02
75	30.00 - 60.00% of mass 95	40.86
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	81.56
175	5.00 - 9.00% of mass 174	5.95 (7.29)
176	95.01 - 100.99% of mass 174	79.10 (96.98)
177	5.00 - 9.00% of mass 176	5.10 (6.44)

11/29/04

4/30/05

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414435400002 Name: 826GOX02 Type: SOIL Date: 28-OCT-2004 19:43 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	bjs16	414435400016	5PPB	28-OCT-2004 19:43	04WS1783 (50000X), 04SS379 (100000X), 04WS1749 (5000X)
2	bjs17	414435400017	10PPB	28-OCT-2004 20:16	04WS1783 (25000X), 04SS379 (50000X), 04WS1749 (5000X)
3	bjs18	414435400018	20PPB	28-OCT-2004 20:50	04WS1783 (12500X), 04SS379 (25000X), 04WS1749 (5000X)
4	bjs19	414435400019	50PPB	28-OCT-2004 21:23	04WS1783 (5000X), 04SS379 (10000X), 04WS1749 (5000X)
5	bjs20	414435400020	60PPB	28-OCT-2004 21:57	04WS1783 (4167X), 04SS379 (8333X), 04WS1749 (5000X)
6	bjs21	414435400021	75PPB	28-OCT-2004 22:31	04WS1783 (3333X), 04SS379 (6667X), 04WS1749 (5000X)
7	bjs22	414435400022	100PPB	28-OCT-2004 23:04	04WS1783 (2500X), 04SS379 (5000X), 04WS1749 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.5493	0.4552	0.4600	0.7680	0.7980	0.8004	0.7653	LINR	R	4.276050	1.211985		ug/L	0.6566	0.994	0.0500	0.99	15	
Chloromethane	0.9989	0.8457	0.7874	0.8808	0.8696	0.8781	0.8667	AVRG	R		1.142421		ug/L	0.8753	7	0.1000	0.99	15	
Vinyl Chloride	0.6601	0.5087	0.4984	0.6668	0.6760	0.6734	0.6822	AVRG	R		1.603417		ug/L	0.6237	13	0.0500	0.99	15	
Bromomethane	0.4556	0.3475	0.3382	0.3829	0.3975	0.4032	0.4020	AVRG	R		2.566913		ug/L	0.3896	10	0.0500	0.99	15	
Chloroethane	0.3605	0.2969	0.2847	0.3350	0.3393	0.3456	0.3415	AVRG	R		3.038775		ug/L	0.3291	8	0.0500	0.99	15	
Trichlorofluoromethane	0.6112	0.4817	0.4726	0.7616	0.7696	0.7958	0.7815	LINR	R	4.334249	1.209855		ug/L	0.6677	0.996	0.0500	0.99	15	
Acetone		0.2119	0.1911	0.1562	0.1669	0.1624	0.1476	AVRG	R		5.791021		ug/L	0.1727	14	0.0500	0.99	15	
Freon 113	0.2044	0.3085	0.3014	0.4124	0.4324	0.4285	0.4256	LINR	R	3.760903	2.234960		ug/L	0.3590	0.998	0.0500	0.99	15	
1,1-Dichloroethene	0.3415	0.3537	0.3418	0.4154	0.4245	0.4316	0.4274	AVRG	R		2.558555		ug/L	0.3908	11	0.0500	0.99	15	
Methylene Chloride	0.6764	0.5998	0.5661	0.5250	0.5332	0.5358	0.5319	AVRG	R		1.764002		ug/L	0.5669	10	0.0500	0.99	15	
Carbon Disulfide	1.4016	1.3624	1.3093	1.5047	1.5664	1.5592	1.5432	AVRG	R		0.683140		ug/L	1.4638	7	0.0500	0.99	15	
MTBE	1.0718	1.1103	1.1375	1.1821	1.1816	1.2071	1.1790	AVRG	R		0.867480		ug/L	1.1528	4	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4818	0.4480	0.4314	0.4597	0.4664	0.4732	0.4714	AVRG	R		2.165893		ug/L	0.4617	4	0.0500	0.99	15	
Vinyl Acetate	0.9219	0.9300	0.9573	0.9624	1.0057	0.9762	0.9692	AVRG	R		1.041249		ug/L	0.9604	3	0.0500	0.99	15	
1,1-Dichloroethane	0.8337	0.7653	0.7538	0.7761	0.7892	0.7919	0.7879	AVRG	R		1.273208		ug/L	0.7854	3	0.1000	0.99	15	
2-Butanone		0.2584	0.2502	0.2516	0.2574	0.2576	0.2394	AVRG	R		3.961372		ug/L	0.2524	3	0.0500	0.99	15	
2,2-Dichloropropane	0.4969	0.4996	0.4727	0.5452	0.5561	0.5474	0.5573	AVRG	R		1.904664		ug/L	0.5250	7	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.5294	0.4932	0.4657	0.4821	0.4878	0.4988	0.4840	AVRG	R		2.034318		ug/L	0.4916	4	0.0500	0.99	15	
Chloroform	0.7620	0.7055	0.6964	0.7240	0.7187	0.7304	0.6977	AVRG	R		1.390325		ug/L	0.7193	3	0.0500	0.99	15	

ICA2-8000, ICV - Cyclohexane, + A.C.E. limit F12

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

 NO 2-Level

11/1/04

11/04/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414435400002 Name: 826GOX02 Type: SOIL Date: 28-OCT-2004 19:43 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Bromochloromethane	0.2789	0.2631	0.2541	0.2643	0.2640	0.2716	0.2719	AVRG	R		3.747760		ug/L	0.2668	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.4716	0.4927	0.4747	0.5474	0.5543	0.5593	0.5582	AVRG	R		1.913501		ug/L	0.5226	8	0.0500	0.99	15	
1,1-Dichloropropene	0.2969	0.3234	0.3137	0.3749	0.3800	0.3853	0.3825	AVRG	R		2.849500		ug/L	0.3509	11	0.0500	0.99	15	
Carbon Tetrachloride	0.2456	0.2833	0.2774	0.3503	0.3539	0.3502	0.3478	AVRG	R		3.169583		ug/L	0.3155	14	0.0500	0.99	15	
1,2-Dichloroethane	0.3436	0.3376	0.3383	0.3334	0.3312	0.3277	0.3297	AVRG	R		2.989553		ug/L	0.3345	2	0.0500	0.99	15	
Benzene	1.2764	1.1676	1.1342	1.1941	1.2040	1.1815	1.1820	AVRG	R		0.839351		ug/L	1.1914	4	0.0500	0.99	15	
Trichloroethene	0.2828	0.2833	0.2656	0.2933	0.2977	0.2945	0.2931	AVRG	R		3.481959		ug/L	0.2872	4	0.0500	0.99	15	
1,2-Dichloropropane	0.3189	0.3104	0.3039	0.3158	0.3178	0.3129	0.3172	AVRG	R		3.186266		ug/L	0.3138	2	0.0500	0.99	15	
Bromodichloromethane	0.3705	0.3550	0.3479	0.3590	0.3663	0.3597	0.3572	AVRG	R		2.782578		ug/L	0.3594	2	0.0500	0.99	15	
Dibromomethane	0.2077	0.1962	0.2019	0.2004	0.2074	0.2045	0.2009	AVRG	R		4.932982		ug/L	0.2027	2	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.3306	0.3281	0.3456	0.3517	0.3424	0.3375	AVRG	R		2.946942		ug/L	0.3393	3	0.0500	0.99	15	
Tetramethyl THF	0.5854	0.5929	0.6102	0.6124	0.6117	0.6069	0.6107	AVRG	R		1.654833		ug/L	0.6043	2	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4422	0.4406	0.4394	0.4507	0.4594	0.4544	0.4594	AVRG	R		2.224949		ug/L	0.4494	2	0.0500	0.99	15	
Toluene	0.8345	0.7723	0.7417	0.8159	0.8203	0.8062	0.8068	AVRG	R		1.250497		ug/L	0.7997	4	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.3819	0.3888	0.3786	0.3880	0.3981	0.3959	0.3961	AVRG	R		2.566475		ug/L	0.3896	2	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1429	0.1391	0.1370	0.1394	0.1424	0.1418	0.1394	AVRG	R		7.129135		ug/L	0.1403	2	0.0500	0.99	15	
2-Hexanone		0.2525	0.2580	0.2697	0.2777	0.2794	0.2669	AVRG	R		3.739737		ug/L	0.2674	4	0.0500	0.99	15	
1,3-Dichloropropane	0.4674	0.4612	0.4696	0.4603	0.4717	0.4627	0.4564	AVRG	R		2.154277		ug/L	0.4642	1	0.0500	0.99	15	
Tetrachloroethene	0.3083	0.3136	0.3162	0.3718	0.3788	0.3840	0.3866	AVRG	R		2.846390		ug/L	0.3513	10	0.0500	0.99	15	
Dibromochloromethane	0.3100	0.3214	0.3325	0.3344	0.3432	0.3489	0.3459	AVRG	R		2.996073		ug/L	0.3338	4	0.0500	0.99	15	
1,2-Dibromoethane	0.2915	0.2859	0.2928	0.2990	0.3059	0.3043	0.3012	AVRG	R		3.364514		ug/L	0.2972	2	0.0500	0.99	15	
Chlorobenzene	1.0835	1.0083	0.9971	1.0202	1.0428	1.0379	1.0287	AVRG	R		0.969745		ug/L	1.0312	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3235	0.3021	0.3000	0.3063	0.3062	0.3143	0.3100	AVRG	R		3.237214		ug/L	0.3089	3	0.0500	0.99	15	
Ethylbenzene	1.6287	1.5302	1.5159	1.6542	1.6804	1.6618	1.6469	AVRG	R		0.618478		ug/L	1.6169	4	0.0500	0.99	15	
m,p-Xylenes	0.6738	0.6483	0.6530	0.6885	0.6947	0.6943	0.6771	AVRG	R		1.479998		ug/L	0.6757	3	0.0500	0.99	15	
o-Xylene	0.6663	0.6278	0.6542	0.6615	0.6739	0.6717	0.6511	AVRG	R		1.519602		ug/L	0.6581	2	0.0500	0.99	15	
Styrene	1.0866	1.0824	1.1170	1.1316	1.1620	1.1620	1.1263	AVRG	R		0.889692		ug/L	1.1240	3	0.0500	0.99	15	
Bromoform	0.2402	0.2388	0.2457	0.2539	0.2575	0.2610	0.2558	AVRG	R		3.993028		ug/L	0.2504	4	0.1000	0.99	15	
Isopropylbenzene	2.6556	2.7021	2.6458	3.1273	3.1545	3.1336	3.1691	AVRG	R		0.340004		ug/L	2.9411	9	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	0.8018	0.7776	0.7650	0.7643	0.7782	0.7963	0.7672	AVRG	R		1.284316		ug/L	0.7786	2	0.3000	0.99	15	
1,2,3-Trichloropropane	0.2192	0.2168	0.2183	0.2153	0.2178	0.2270	0.2138	AVRG	R		4.580431		ug/L	0.2183	2	0.0500	0.99	15	
Propylbenzene	3.3164	3.2426	3.2200	3.6728	3.7362	3.7430	3.7089	AVRG	R		0.284092		ug/L	3.5200	7	0.0500	0.99	15	

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414435400002 Name: 826GOX02 Type: SOIL Date: 28-OCT-2004 19:43 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	Units	avg	%RSD	r^2 MinRf	MnR^2	MxRSD	Flags
Bromobenzene	0.8927	0.8563	0.8409	0.8615	0.8697	0.8750	0.8728	AVRG	R		1.153414		ug/L	0.8670	2	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.2529	2.1922	2.1729	2.4200	2.4568	2.4762	2.4248	AVRG	R		0.426939		ug/L	2.3423	6	0.0500	0.99	15	
2-Chlorotoluene	2.5155	2.3470	2.3121	2.4275	2.4399	2.4300	2.3999	AVRG	R		0.414891		ug/L	2.4103	3	0.0500	0.99	15	
4-Chlorotoluene	2.3973	2.2174	2.1314	2.2357	2.2849	2.2688	2.2538	AVRG	R		0.443335		ug/L	2.2556	4	0.0500	0.99	15	
tert-Butylbenzene	1.8129	1.8714	1.8518	2.1956	2.2130	2.2175	2.2435	AVRG	R		0.485915		ug/L	2.0580	10	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.1432	2.0501	2.0553	2.2604	2.2754	2.3255	2.3309	AVRG	R		0.453339		ug/L	2.2059	6	0.0500	0.99	15	
sec-Butylbenzene	2.5916	2.8414	2.7534	3.4197	3.4220	3.4613	3.4284	AVRG	R		0.319375		ug/L	3.1311	12	0.0500	0.99	15	
para-Isopropyl Toluene	2.0641	2.2210	2.1634	2.5838	2.6397	2.6782	2.7213	AVRG	R		0.410043		ug/L	2.4388	11	0.0500	0.99	15	
1,3-Dichlorobenzene	1.6568	1.6030	1.5480	1.5885	1.6071	1.5908	1.6065	AVRG	R		0.624954		ug/L	1.6001	2	0.0500	0.99	15	
1,4-Dichlorobenzene	1.7699	1.5918	1.5759	1.5899	1.6236	1.6324	1.6308	AVRG	R		0.613267		ug/L	1.6306	4	0.0500	0.99	15	
n-Butylbenzene	1.6124	1.7567	1.7348	2.0747	2.1730	2.2243	2.2320	AVRG	R		0.506953		ug/L	1.9726	13	0.0500	0.99	15	
1,2-Dichlorobenzene	1.5285	1.4839	1.4747	1.5064	1.5193	1.5250	1.5041	AVRG	R		0.664020		ug/L	1.5060	1	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1621	0.1392	0.1411	0.1470	0.1427	0.1488	0.1396	AVRG	R		6.859342		ug/L	0.1458	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8281	0.7967	0.7899	0.8228	0.8588	0.8640	0.8770	AVRG	R		1.199160		ug/L	0.8339	4	0.0500	0.99	15	
Hexachlorobutadiene	0.4216	0.4945	0.4195	0.5326	0.5374	0.5459	0.5439	AVRG	R		2.002629		ug/L	0.4993	11	0.0500	0.99	15	
Naphthalene	1.6714	1.7007	1.7514	1.8520	1.9051	1.8958	1.8811	AVRG	R		0.553036		ug/L	1.8082	5	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.7630	0.7679	0.7575	0.8054	0.8281	0.8272	0.8451	AVRG	R		1.251307		ug/L	0.7992	5	0.0500	0.99	15	
tert-Butyl Alcohol (TBA)	0.0596	0.0530	0.0551	0.0570	0.0605	0.0604	0.0540	AVRG	R		17.51653		ug/L	0.0571	6	0.0050	0.99	15	
Isopropyl Ether (DIPE)	1.4172	1.4719	1.4835	1.5244	1.5666	1.5600	1.5485	AVRG	R		0.662123		ug/L	1.5103	4	0.0500	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.2047	1.2100	1.2185	1.2715	1.3095	1.3063	1.3077	AVRG	R		0.792916		ug/L	1.2612	4	0.0500	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.7708	0.7942	0.7949	0.8330	0.8322	0.8281	0.8205	AVRG	R		1.233794		ug/L	0.8105	3	0.0500	0.99	15	
Cyclohexanone		0.0442	0.0462	0.0436	0.0348	0.0422	0.0324	AVRG	R		24.66305		ug/L	0.0405	14	0.0050	0.99	15	
Ethanol	0.0087	0.0084	0.0089	0.0085	0.0092	0.0091	0.0083	AVRG	R		114.5081		ug/L	0.0087	4	5.0E-4	0.99	15	
Isopropanol	0.0383	0.0390	0.0384	0.0403	0.0425	0.0418	0.0387	AVRG	R		25.08171		ug/L	0.0399	4	0.0050	0.99	15	
Tetrahydrofuran	0.1575	0.1436	0.1484	0.1473	0.1496	0.1490	0.1346	AVRG	R		6.796412		ug/L	0.1471	5	0.0050	0.99	15	
Dibromofluoromethane	0.4478	0.4498	0.4473	0.4459	0.4392	0.4442	0.4399	AVRG	R		2.247805		ug/L	0.4449	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.2593	0.2648	0.2602	0.2608	0.2565	0.2514	0.2452	AVRG	R		3.892792		ug/L	0.2569	3	0.0500	0.99	15	
Trifluorotoluene	0.3516	0.4595	0.4530	0.5598	0.5687	0.5732	0.5692	LINR	R	2.699689	1.696946		ug/L	0.5050	0.999	0.0500	0.99	15	
Toluene-d8	1.0378	1.0395	1.0437	1.0250	1.0497	1.0294	1.0363	AVRG	R		0.963999		ug/L	1.0373	1	0.0500	0.99	15	
Bromofluorobenzene	0.9682	0.9819	0.9765	0.9697	0.9684	0.9719	0.9609	AVRG	R		1.029800		ug/L	0.9711	1	0.0500	0.99	15	

Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02
Seqnum : 414435400023
Calnum : 414435400002
Standards: 04WS1969C (5000X), 04WS1749 (5000X)

Run Name : 50PPB
Filename : bjs23
Caldate : 28-OCT-2004

Injected : 28-OCT-2004 23:38
Caltype : SOIL

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	39.33670	ug/L	-21	30	!v-
Chloromethane	50.00000	41.57690	ug/L	-17	30	
Vinyl Chloride	50.00000	47.20300	ug/L	-6	20	
Bromomethane	50.00000	45.54420	ug/L	-9	30	
Chloroethane	50.00000	48.87090	ug/L	-2	30	
Trichlorofluoromethane	50.00000	47.81530	ug/L	-4	30	
Dibromofluoromethane	50.00000	49.37770	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	49.27980	ug/L	-1	30	
Toluene-d8	50.00000	49.41940	ug/L	-1	30	
Bromofluorobenzene	50.00000	50.37750	ug/L	1	30	

ISTD (ICAL-bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	395239	9.21	11.86	11.85	-0.01
1,4-Difluorobenzene	521847	573075	9.82	13.09	13.08	-0.01
Chlorobenzene-d5	489940	521830	6.51	17.64	17.64	0.00
1,4-Dichlorobenzene-d4	259088	265429	2.45	21.02	21.02	0.00

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11/1/04

!=warning -=low bias v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB
Seqnum : 414435400024 Filename : bjs24 Injected : 29-OCT-2004 00:11
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS1940 (5000X), 04WS1968 (5000X), 04WS1749 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	41.10720	ug/L	-18	40	
Freon 113	50.00000	52.00710	ug/L	4	30	
1,1-Dichloroethene	50.00000	47.43920	ug/L	-5	20	
Methylene Chloride	50.00000	44.33470	ug/L	-11	30	
Carbon Disulfide	50.00000	40.47320	ug/L	-19	30	
MTBE	50.00000	47.26570	ug/L	-5	30	
trans-1,2-Dichloroethene	50.00000	46.13830	ug/L	-8	30	
Vinyl Acetate	50.00000	43.35220	ug/L	-13	40	
1,1-Dichloroethane	50.00000	46.19910	ug/L	-8	30	
2-Butanone	50.00000	44.36260	ug/L	-11	40	
2,2-Dichloropropane	50.00000	47.27410	ug/L	-5	30	
cis-1,2-Dichloroethene	50.00000	46.62390	ug/L	-7	30	
Chloroform	50.00000	46.19570	ug/L	-8	20	
Bromochloromethane	50.00000	47.05470	ug/L	-6	30	
1,1,1-Trichloroethane	50.00000	49.92440	ug/L	0	30	
1,1-Dichloropropene	50.00000	48.95160	ug/L	-2	30	
Carbon Tetrachloride	50.00000	51.93090	ug/L	4	30	
1,2-Dichloroethane	50.00000	46.76800	ug/L	-6	30	
Benzene	50.00000	48.28770	ug/L	-3	30	
Trichloroethene	50.00000	49.23140	ug/L	-2	30	
1,2-Dichloropropane	50.00000	46.28490	ug/L	-7	20	
Bromodichloromethane	50.00000	50.09050	ug/L	0	30	
Dibromomethane	50.00000	46.87080	ug/L	-6	30	
4-Methyl-2-Pentanone	50.00000	46.89360	ug/L	-6	40	
Tetramethyl THF	50.00000	48.19920	ug/L	-4	30	
cis-1,3-Dichloropropene	50.00000	47.41750	ug/L	-5	30	
Toluene	50.00000	49.52080	ug/L	-1	20	
trans-1,3-Dichloropropene	50.00000	44.85960	ug/L	-10	30	
1,1,2-Trichloroethane	50.00000	48.17910	ug/L	-4	30	
2-Hexanone	50.00000	45.97940	ug/L	-8	40	
1,3-Dichloropropane	50.00000	46.30230	ug/L	-7	30	
Tetrachloroethene	50.00000	50.99490	ug/L	2	30	
Dibromochloromethane	50.00000	46.51120	ug/L	-7	30	
1,2-Dibromoethane	50.00000	48.20080	ug/L	-4	30	
Chlorobenzene	50.00000	47.63050	ug/L	-5	30	
1,1,1,2-Tetrachloroethane	50.00000	46.56670	ug/L	-7	30	
Ethylbenzene	50.00000	49.90100	ug/L	0	20	
m,p-Xylenes	100.0000	100.3543	ug/L	0	30	
o-Xylene	50.00000	49.34300	ug/L	-1	30	
Styrene	50.00000	49.55840	ug/L	-1	30	
Bromoform	50.00000	46.26170	ug/L	-7	30	
Isopropylbenzene	50.00000	46.11960	ug/L	-8	30	
1,1,2,2-Tetrachloroethane	50.00000	45.35340	ug/L	-9	30	
1,2,3-Trichloropropane	50.00000	44.78210	ug/L	-10	30	
Propylbenzene	50.00000	49.50140	ug/L	-1	30	
Bromobenzene	50.00000	47.88040	ug/L	-4	30	
1,3,5-Trimethylbenzene	50.00000	49.86090	ug/L	0	30	

-=low bias v=ICV
Page 1 of 2

11/01/04 11/1/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB
Seqnum : 414435400024 Filename : bjs24 Injected : 29-OCT-2004 00:11
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS1940 (5000X), 04WS1968 (5000X), 04WS1749 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags	
2-Chlorotoluene	50.00000	47.77470	ug/L	-4	30		
4-Chlorotoluene	50.00000	47.84060	ug/L	-4	30		
tert-Butylbenzene	50.00000	50.76850	ug/L	2	30		
1,2,4-Trimethylbenzene	50.00000	49.36140	ug/L	-1	30		
sec-Butylbenzene	50.00000	51.25850	ug/L	3	30		
para-Isopropyl Toluene	50.00000	49.38290	ug/L	-1	30		
1,3-Dichlorobenzene	50.00000	46.95740	ug/L	-6	30		
1,4-Dichlorobenzene	50.00000	47.07790	ug/L	-6	30		
n-Butylbenzene	50.00000	51.52840	ug/L	3	30		
1,2-Dichlorobenzene	50.00000	48.07310	ug/L	-4	30		
1,2-Dibromo-3-Chloropropane	50.00000	44.49660	ug/L	-11	30		
1,2,4-Trichlorobenzene	50.00000	48.00660	ug/L	-4	30		
Hexachlorobutadiene	50.00000	52.18240	ug/L	4	30		
Naphthalene	50.00000	47.91740	ug/L	-4	30		
1,2,3-Trichlorobenzene	50.00000	48.45320	ug/L	-3	30		
tert-Butyl Alcohol (TBA)	250.0000	230.5458	ug/L	-8	30		
Isopropyl Ether (DIPE)	50.00000	48.58340	ug/L	-3	30		
Ethyl tert-Butyl Ether (ETBE)	50.00000	49.81690	ug/L	0	30		
Methyl tert-Amyl Ether (TAME)	50.00000	48.99580	ug/L	-2	30		
Cyclohexanone	500.0000	331.5280	ug/L	-34	30	v-	***
Ethanol	5000.000	4574.342	ug/L	-9	30		
Isopropanol	500.0000	444.9121	ug/L	-11	30		
Tetrahydrofuran	500.0000	453.8997	ug/L	-9	30		
Dibromofluoromethane	50.00000	48.65750	ug/L	-3	30		(NOT USED)
1,2-Dichloroethane-d4	50.00000	48.65510	ug/L	-3	30		(NOT USED)
Toluene-d8	50.00000	50.34100	ug/L	1	30		(NOT USED)
Bromofluorobenzene	50.00000	50.14370	ug/L	0	30		(NOT USED)

ISTD (ICAL-bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	378259	4.52	11.86	11.85	-0.01
1,4-Difluorobenzene	521847	535109	2.54	13.09	13.08	-0.01
Chlorobenzene-d5	489940	510292	4.15	17.64	17.64	0.00
1,4-Dichlorobenzene-d4	259088	275790	6.45	21.02	21.02	0.00

-=low bias v=ICV

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11/1/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : QC273934 IDF : 1.0
Seqnum : 414481618007 Filename : bkt07 Injected : 29-NOV-2004 12:25
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS2168A (5000X), 04SS408 (10000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
1,1-Dichloroethene	0.3908	0.4162	50.00000	53.24920	ug/L	6	20	0.0500	
Benzene	1.1914	1.1582	50.00000	48.60800	ug/L	-3	30	0.0500	
Trichloroethene	0.2872	0.3026	50.00000	52.68430	ug/L	5	30	0.0500	
Toluene	0.7997	0.8205	50.00000	51.30170	ug/L	3	20	0.0500	
Chlorobenzene	1.0312	1.0410	50.00000	50.47460	ug/L	1	30	0.3000	
Freon 12	0.6566	0.8257	50.00000	54.30990	ug/L	9	30	0.0500	!v-
Chloromethane	0.8753	0.8052	50.00000	45.99480	ug/L	-8	30	0.1000	
Vinyl Chloride	0.6237	0.6318	50.00000	50.65390	ug/L	1	20	0.0500	
Bromomethane	0.3896	0.3654	50.00000	46.89450	ug/L	-6	30	0.0500	
Chloroethane	0.3291	0.3222	50.00000	48.95460	ug/L	-2	30	0.0500	
Trichlorofluoromethane	0.6677	0.7719	50.00000	51.02730	ug/L	2	30	0.0500	
Acetone	0.1727	0.1865	50.00000	54.00380	ug/L	8	40	0.0500	
Freon 113	0.3590	0.4101	50.00000	49.59090	ug/L	-1	30	0.0500	
Methylene Chloride	0.5669	0.5148	50.00000	45.40510	ug/L	-9	30	0.0500	
MTBE	1.1528	1.1363	50.00000	49.28470	ug/L	-1	30	0.0500	
Carbon Disulfide	1.4638	1.5590	50.00000	53.24950	ug/L	6	30	0.0500	
trans-1,2-Dichloroethene	0.4617	0.4563	50.00000	49.41860	ug/L	-1	30	0.0500	
Vinyl Acetate	0.9604	0.8641	50.00000	44.98820	ug/L	-10	40	0.0500	
1,1-Dichloroethane	0.7854	0.7265	50.00000	46.25030	ug/L	-7	30	0.1000	
2-Butanone	0.2524	0.2481	50.00000	49.13350	ug/L	-2	40	0.0500	
cis-1,2-Dichloroethene	0.4916	0.4759	50.00000	48.40660	ug/L	-3	30	0.0500	
2,2-Dichloropropane	0.5250	0.5366	50.00000	51.10570	ug/L	2	30	0.0500	
Chloroform	0.7193	0.6785	50.00000	47.16540	ug/L	-6	20	0.0500	
Bromochloromethane	0.2668	0.2713	50.00000	50.83150	ug/L	2	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5132	50.00000	49.10190	ug/L	-2	30	0.0500	
1,1-Dichloropropene	0.3509	0.3731	50.00000	53.15060	ug/L	6	30	0.0500	
Carbon Tetrachloride	0.3155	0.3506	50.00000	55.56800	ug/L	11	30	0.0500	
1,2-Dichloroethane	0.3345	0.3246	50.00000	48.52040	ug/L	-3	30	0.0500	
1,2-Dichloropropane	0.3138	0.3096	50.00000	49.31640	ug/L	-1	20	0.0500	
Bromodichloromethane	0.3594	0.3495	50.00000	48.62220	ug/L	-3	30	0.0500	
Dibromomethane	0.2027	0.2009	50.00000	49.55550	ug/L	-1	30	0.0500	
4-Methyl-2-Pentanone	0.3393	0.3195	50.00000	47.07970	ug/L	-6	40	0.0500	
Tetramethyl THF	0.6043	0.5622	50.00000	46.52000	ug/L	-7	30	0.0500	
cis-1,3-Dichloropropene	0.4494	0.4470	50.00000	49.72380	ug/L	-1	30	0.0500	
trans-1,3-Dichloropropene	0.3896	0.3952	50.00000	50.71350	ug/L	1	30	0.0500	
1,1,2-Trichloroethane	0.1403	0.1400	50.00000	49.91770	ug/L	0	30	0.0500	
2-Hexanone	0.2674	0.2535	50.00000	47.39790	ug/L	-5	40	0.0500	
1,3-Dichloropropane	0.4642	0.4411	50.00000	47.51500	ug/L	-5	30	0.0500	
Tetrachloroethene	0.3513	0.3850	50.00000	54.78660	ug/L	10	30	0.0500	
Dibromochloromethane	0.3338	0.3269	50.00000	48.97200	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.2972	0.2972	50.00000	50.00360	ug/L	0	30	0.0500	
1,1,1,2-Tetrachloroethane	0.3089	0.2998	50.00000	48.52140	ug/L	-3	30	0.0500	
Ethylbenzene	1.6169	1.6602	50.00000	51.33940	ug/L	3	20	0.0500	
m,p-Xylenes	0.6757	0.7010	100.0000	103.7521	ug/L	4	30	0.0500	
o-Xylene	0.6581	0.6802	50.00000	51.68220	ug/L	3	30	0.0500	
Styrene	1.1240	1.1626	50.00000	51.71880	ug/L	3	30	0.0500	

!=warning +=high bias -=low bias >LR=overrange c=CCV v=ICV
Page 1 of 2

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : QC273934 IDF : 1.0
Seqnum : 414481618007 Filename : bkt07 Injected : 29-NOV-2004 12:25
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS2168A (5000X), 04SS408 (10000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.2504	0.2530	50.00000	50.51370	ug/L	1	30	0.1000	
Isopropylbenzene	2.9411	2.9129	50.00000	49.52060	ug/L	-1	30	0.0500	
1,1,2,2-Tetrachloroethane	0.7786	0.6878	50.00000	44.16780	ug/L	-12	30	0.3000	
1,2,3-Trichloropropane	0.2183	0.1934	50.00000	44.28500	ug/L	-11	30	0.0500	
Propylbenzene	3.5200	3.5898	50.00000	50.99170	ug/L	2	30	0.0500	
Bromobenzene	0.8670	0.8206	50.00000	47.32180	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	2.3423	2.3134	50.00000	49.38320	ug/L	-1	30	0.0500	
2-Chlorotoluene	2.4103	2.2900	50.00000	47.50390	ug/L	-5	30	0.0500	
4-Chlorotoluene	2.2556	2.1803	50.00000	48.32990	ug/L	-3	30	0.0500	
tert-Butylbenzene	2.0580	2.1616	50.00000	52.51810	ug/L	5	30	0.0500	
1,2,4-Trimethylbenzene	2.2059	2.2266	50.00000	50.46990	ug/L	1	30	0.0500	
sec-Butylbenzene	3.1311	3.3522	50.00000	53.53020	ug/L	7	30	0.0500	
para-Isopropyl Toluene	2.4388	2.7432	50.00000	56.24120	ug/L	12	30	0.0500	
1,3-Dichlorobenzene	1.6001	1.5775	50.00000	49.29200	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	1.6306	1.6027	50.00000	49.14400	ug/L	-2	30	0.0500	
n-Butylbenzene	1.9726	2.3124	50.00000	58.61270	ug/L	17	30	0.0500	
1,2-Dichlorobenzene	1.5060	1.4872	50.00000	49.37740	ug/L	-1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1458	0.1277	50.00000	43.79340	ug/L	-12	30	0.0500	
1,2,4-Trichlorobenzene	0.8339	0.9651	50.00000	57.86400	ug/L	16	30	0.0500	
Hexachlorobutadiene	0.4993	0.5495	50.00000	55.02260	ug/L	10	30	0.0500	
Naphthalene	1.8082	1.9515	50.00000	53.96250	ug/L	8	30	0.0500	
1,2,3-Trichlorobenzene	0.7992	0.8854	50.00000	55.39750	ug/L	11	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0571	0.0513	500.0000	449.3995	ug/L	-10	30	0.0050	
Isopropyl Ether (DIPE)	1.5103	1.3971	50.00000	46.25350	ug/L	-7	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2612	1.1778	50.00000	46.69480	ug/L	-7	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.8105	0.8062	50.00000	49.73140	ug/L	-1	30	0.0500	
Isopropanol	0.0399	0.0356	500.0000	446.0032	ug/L	-11	30	0.0050	
Ethanol	0.0087	0.0077	5000.000	4402.547	ug/L	~~-12~~	30	5.0E-4	NT
Cyclohexanone	0.0405	0.0910	500.0000	1122.538	ug/L	125	30	0.0050	>LR c+
Tetrahydrofuran	0.1471	0.1338	500.0000	454.5247	ug/L	-9	30	0.0050	
Dibromofluoromethane	0.4449	0.4295	50.00000	48.26730	ug/L	-3	30	0.0500	
1,2-Dichloroethane-d4	0.2569	0.2508	50.00000	48.82160	ug/L	-2	30	0.0500	
Toluene-d8	1.0373	1.0566	50.00000	50.92720	ug/L	2	30	0.0500	
Bromofluorobenzene	0.9711	0.9295	50.00000	47.86070	ug/L	-4	30	0.0500	
Trifluorotoluene	0.5050	0.6097	50.00000	54.43120	ug/L	9	30	0.0500	

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	339272	-6.25	11.86	11.83	-0.03
1,4-Difluorobenzene	521847	477123	-8.57	13.09	13.06	-0.03
Chlorobenzene-d5	489940	459373	-6.24	17.64	17.62	-0.02
1,4-Dichlorobenzene-d4	259088	263429	1.68	21.02	21.00	-0.02

4/3 v7

11/29/04

!=warning +=high bias -=low bias >LR=overrange c=CCV v=ICV
Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 29-NOV-2004
Sequence: 414481618 (bkt)
Instrument ID: MSVOA02

ICAL Filename: bjs19
Date Analyzed: 28-OCT-2004
Time Analyzed: 21:23

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	361893	11.86	521847	13.09	489940	17.64	259088	21.02
LOWER LIMIT	180947	11.36	260924	12.59	244970	17.14	129544	20.52
UPPER LIMIT	723786	12.36	1043694	13.59	979880	18.14	518176	21.52

TYPE	SAMPLE	#								
CCV/LCS	QC273934	003	527173	11.82	707648	13.05	682506	17.62	385447	21.00
CCV/LCS	QC273934	007	339272	11.83	477123	13.06	459373	17.62	263429	21.00
PREPBLK	QC274111	008	330796	11.82	457812	13.05	542682	17.63	306258	21.00
BLANK	QC274068	009	347823	11.82	500970	13.06	470156	17.62	257705	21.00
MSS	176248-003	010	288150	11.83	393549	13.05	372741	17.62	206591	21.01
SAMPLE	176217-002	011	306451	11.83	446749	13.06	406625	17.62	218947	21.00
SAMPLE	176217-003	012	325930	11.83	467347	13.06	444057	17.62	242894	21.00
SAMPLE	176089-013	013	345847	11.83	484226	13.05	476195	17.62	265270	21.00
SAMPLE	176185-001	014	355653	11.83	507468	13.05	478722	17.62	259602	21.00
SAMPLE	176156-001	015	370864	11.83	535861	13.05	508329	17.62	275264	21.00
SAMPLE	176214-005	016	367514	11.82	535742	13.05	517048	17.62	275777	20.99
SAMPLE	176214-006	017	242860	11.83	390503	13.05	377639	17.62	174210	21.00
SAMPLE	176180-001	018	420068	11.81	621656	13.05	565792	17.63	322372	21.00
SAMPLE	176180-002	019	421795	11.82	635059	13.05	590558	17.63	335503	21.00
SAMPLE	176180-006	020	439588	11.82	636756	13.05	602337	17.63	346475	21.00
SAMPLE	176180-011	021	449664	11.83	657566	13.06	613358	17.62	333391	21.00
SAMPLE	176168-013	022	401680	11.83	583450	13.05	552889	17.62	300860	21.00
SAMPLE	176168-015	023	400995	11.83	579251	13.06	540501	17.62	294138	21.00
MS	QC274118	024	423381	11.83	593046	13.05	550124	17.62	287736	21.00
MSD	QC274119	025	412645	11.83	596919	13.05	544885	17.62	287827	21.00
SAMPLE	176180-011	026	389507	11.83	564074	13.06	530249	17.62	291677	21.00

MS VOA 2 8260 / GOX S ICAL

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begun: 28-OCT-2004

Sequence: 414435400 Instrument: MSVOA02 HP GCMS VOA 02

Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK uL	VL	pH	Stds Used	>LR
001	bjs01	X	IB			28-OCT-2004 08:40	1.0					1	
002	bjs02	TUN	BFB			28-OCT-2004 09:32	1.0					2	NOT USED
003	bjs03	CCV	50PPB			28-OCT-2004 10:04	1.0	3	5000			3 4 5 1	
004	bjs04	TUN	BFB			28-OCT-2004 12:14	1.0					2	
005	bjs05	CCV	50PPB			28-OCT-2004 12:32	1.0	4	5000			3 4 1 cc+	
006	bjs06	TUN	BFB → Adjust Tune			28-OCT-2004 13:21	1.0					2	
007	bjs07	CCV	50PPB			28-OCT-2004 13:39	1.0	3	5000			3 4 1 cc+	
008	bjs08	CCV	50PPB			28-OCT-2004 14:33	1.0	5	5000			3 4 1 cc-	
009	bjs09	TUN	BFB			28-OCT-2004 15:38	1.0	1				2 t	
010	bjs10	CCV	50PPB → Adjust Tune			28-OCT-2004 15:56	1.0	81	5000			3 4 1 t cc-	
011	bjs11	TUN	BFB			28-OCT-2004 17:12	1.0					2	
012	bjs12	X	IB			28-OCT-2004 17:30	1.0					1	
013	bjs13	X	IB			28-OCT-2004 18:04	1.0					1	
014	bjs14	X	IB			28-OCT-2004 18:37	1.0					1	
015	bjs15	X	CALIB IB			28-OCT-2004 19:10	1.0					1	
016	bjs16	ICAL	5PPB			28-OCT-2004 19:43	1.0					3 4 1	
017	bjs17	ICAL	10PPB			28-OCT-2004 20:16	1.0					3 4 1	
018	bjs18	ICAL	20PPB			28-OCT-2004 20:50	1.0					3 4 1	
019	bjs19	ICAL	50PPB			28-OCT-2004 21:23	1.0					3 4 1	
020	bjs20	ICAL	60PPB			28-OCT-2004 21:57	1.0					3 4 1	
021	bjs21	ICAL	75PPB			28-OCT-2004 22:31	1.0					3 4 1	
022	bjs22	ICAL	100PPB			28-OCT-2004 23:04	1.0					3 4 1	
023	bjs23	ICV	50PPB			28-OCT-2004 23:38	1.0		5000			6 1	
024	bjs24	ICV	50PPB			29-OCT-2004 00:11	1.0	1	5000			7 8 1	
025	bjs25	X	IB			29-OCT-2004 00:45	1.0					1	
026	bjs26	X	IB			29-OCT-2004 01:18	1.0					1	

ICAL - No 2-Clave (NS) ICV - Cyclohexanone ↓ (WL: F12↓)

Stds used: 1=04WS1749 2=04WS1238 3=04WS1783 4=04SS379 5=04WS1967 6=04WS1969C 7=04WS1940 8=04WS1968

Flags used: +=high bias -=low bias cc=CCV CCC failure t=tune failure

Analyst: [signature] Date: 10/29/04

Page 1 of 1

11/04/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

3

Sequence: 414481618 Instrument: MSVOA02 HP GCMS VOA 02 Begun: 29-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	bkt01	X	IB			29-NOV-2004 09:10	1.0						1	
002	bkt02	TUN	BFB			29-NOV-2004 09:42	1.0	1					2 t NOT USED	
003	bkt03	CCV/LCS	QC273934	96898	Soil	29-NOV-2004 10:01	1.0	81	1	5000			3 4 1 t	
004	bkt04	TUN	BFB			29-NOV-2004 10:39	1.0						2	
005	bkt05	CCV/LCS	QC273934	96898	Soil	29-NOV-2004 10:58	1.0	81	6	5000			3 4 1 spk ?t cc	
006	bkt06	TUN	BFB 4067	931		29-NOV-2004 12:07	1.0						2	
007	bkt07	CCV/LCS	QC273934 11/30/04	96898	Soil	29-NOV-2004 12:25	1.0	1		5000			3 4 1	1:CYHEKE=1122.54
008	bkt08	PREPBLK	QC274111 M	96931	Soil	29-NOV-2004 13:10	25.0		1	5000			1 MeOH P.B. 11/26	
009	bkt09	BLANK	QC274068	96931	Soil	29-NOV-2004 13:43	1.0	1	1	5000			1	
010	bkt10	MSS	176248-003	96931	Soil	29-NOV-2004 14:28	0.9259		1	5000	A	Soil	1	
011	bkt11	SAMPLE	176217-002	96931	Soil	29-NOV-2004 15:01	0.9259		1	5000			1	
012	bkt12	SAMPLE	176217-003	96931	Soil	29-NOV-2004 15:34	0.9091		1	5000			1	
013	bkt13	SAMPLE	176089-013	96931	Soil	29-NOV-2004 16:07	0.9615		1	5000			1	
014	bkt14	SAMPLE	176185-001	96931	Soil	29-NOV-2004 16:40	0.9434	1		5000			1 AR 4X	1:DCBZ12=124.050
015	bkt15	SAMPLE	176156-001	96931	Soil	29-NOV-2004 17:13	0.9091		1	5000			1	
016	bkt16	SAMPLE	176214-005	96931	Soil	29-NOV-2004 17:46	0.9434		1	5000			1	
017	bkt17	SAMPLE	176214-006	96931	Soil	29-NOV-2004 18:20	0.9434	1	1	5000			1 AR 5X	1:MTLNCL=159.420
018	bkt18	SAMPLE	176180-001 M	96931	Soil	29-NOV-2004 18:53	40.0		1	5000			1 AR 40X (did not sample 5mL)	
019	bkt19	SAMPLE	176180-002 M	96931	Soil	29-NOV-2004 19:27	25.0		1	5000			1	
020	bkt20	SAMPLE	176180-006 M	96931	Soil	29-NOV-2004 20:02	25.0		1	5000			1	
021	bkt21	SAMPLE	176180-011 M	96931	Soil	29-NOV-2004 20:36	25.0		1	5000			1	
022	bkt22	SAMPLE	176168-013	96931	Soil	29-NOV-2004 21:10	5.0		1	5000			1	
023	bkt23	SAMPLE	176168-015	96931	Soil	29-NOV-2004 21:45	4.545		1	5000			1	
024	bkt24	MS	QC274118	96931	Soil	29-NOV-2004 22:19	0.9259	1		5000			5 6 7 1	1:ACE=140.906
025	bkt25	MSD	QC274119	96931	Soil	29-NOV-2004 22:53	0.9259	1		5000			5 6 7 1	1:ACE=163.252
026	bkt26	SAMPLE	176180-011	96931	Soil	29-NOV-2004 23:27	5.0		1	5000			1	
027	bkt27	X	IB			30-NOV-2004 00:01	1.0						1	
028	bkt28	X	IB			30-NOV-2004 00:35	1.0						1	
029	bkt29	X	IB			30-NOV-2004 01:09	1.0						1	

16AL - No 2ccave ICV - Cyclohex ↓ (MC: PZ2↓) CCV - Cyclohex ↑

Stds used: 1=04WS2096 2=04WS1238 3=04WS2168A 4=04SS408 5=04WS1940 6=04WS2093 7=04WS1967
Flags used: -=low bias ?t=missing tune cc=CCV CCC failure spk=5% spike rule t=tune failure

Analyst: [signature] Date: 11/30/04

4/30/04

REPORTING SUMMARY FOR 176248 8260 Soil
Curtis & Tompkins Laboratories

| Lab ID | Inst ID | Analyzed | IDF | 1,2-Dichlorobenzene-d4 | 1,2-Dichloroethane-d4 | 1,4-Dichlorobenzene-d4 | Acetone | Acrylonitrile | Allyl chloride | Benzene | Bromobenzene | Bromochloromethane | Bromodichloromethane | Bromoform | Bromomethane | 2-Butanone (MEK) | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Carbon disulfide | Carbon tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | 2-Chlorotoluene | 4-Chlorotoluene | Dibromochloromethane | 1,2-Dibromo-3-chloropropane | 1,2-Dibromoethane (EDB) | Dibromomethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | Dichlorodifluoromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | 1,3-Dichloropropane | 2,2-Dichloropropane | 1,1-Dichloropropene | cis-1,3-Dichloropropene | trans-1,3-Dichloropropene | Ethylbenzene | Hexachlorobutadiene | Isopropylbenzene | 4-Isopropylbenzene | Methylene chloride | Naphthalene | n-Propylbenzene | Styrene | 1,1,1,2-Tetrachloroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Toluene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Trichlorofluoromethane | 1,2,3-Trichloropropane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Vinyl acetate | Vinyl chloride | Xylene (total) |
|---|---|---

MSVOA SOIL PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

Date: 11/29/06

Prepped by:

8260 5030

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1	176168 -13	1.0	A		2	RR 5X		
2	↓ -15	1.1				RR 5X		
3	176153-5	1.0/10.0		X		RR 5X/25X - Not Needed -		
4	176180-1	0.125ml				RR 40X		
5	-2	0.2				RR 25X		
6	-6	10.0		X		RR 25X		
7	↓ -11	0.2/1.0				RR 25X/5X		
8	176248-3	5.4				MSS/MS/MSD		
9	176217-2	5.4						
10	↓ -3	5.5						
11	176089-13	5.2						
12	176185-1	5.3						
13	176156-1	5.5						
14	176214-5	5.3						
15	↓ -6	5.3						
16								
17								
18								
19								
20								
21								
22								
23								
24	MOH P.E. 11/26				2	25X		
25								
26								

B 28
↓ 24
A
18
B 16
B 24

ENCORE 8260/5035

	Sample ID	grams/ mLs	core#	Meoh	inst.	COMMENTS	hold date	due date
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
14								
15								
16								
17								

F:/home/terri/templates/Soilprepsheet.xls

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
1,1-Dichloroethene	ug/Kg	08/25/04	0.70	01/07/04	0.71	02/13/04	0.45
Benzene	ug/Kg	08/25/04	0.58	01/07/04	0.43	02/16/04	0.055
Trichloroethene	ug/Kg	08/25/04	0.54	01/07/04	1.1	02/16/04	0.11
Toluene	ug/Kg	08/25/04	0.47	01/07/04	0.59	02/16/04	0.13
Chlorobenzene	ug/Kg	08/25/04	0.58	01/07/04	0.39	02/16/04	0.076
Freon 12	ug/Kg	08/25/04	0.49	01/07/04	1.4	02/16/04	0.084
Chloromethane	ug/Kg	08/25/04	0.82	01/07/04	0.90	02/16/04	0.12
Vinyl Chloride	ug/Kg	08/25/04	0.79	01/07/04	1.9	02/16/04	0.32
Bromomethane	ug/Kg	08/25/04	1.4	01/07/04	0.87	02/16/04	0.27
Chloroethane	ug/Kg	08/25/04	0.60	01/07/04	0.86	02/16/04	0.26
Trichlorofluoromethane	ug/Kg	08/25/04	0.80	01/07/04	0.73	02/16/04	0.15
Acetone	ug/Kg	08/25/04	1.7	01/07/04	2.9	02/13/04	1.0
Freon 113	ug/Kg	08/25/04	0.81	01/07/04	0.73	02/16/04	0.11
Methylene Chloride	ug/Kg	08/25/04	0.38	01/07/04	1.1	02/13/04	0.65
MTBE	ug/Kg	08/25/04	0.43	01/07/04	0.58	02/16/04	0.12
Carbon Disulfide	ug/Kg	08/31/04	4.0	01/07/04	0.92	02/16/04	0.10
trans-1,2-Dichloroethene	ug/Kg	08/25/04	0.47	01/07/04	0.54	02/16/04	0.20
Vinyl Acetate	ug/Kg	08/25/04	0.66	01/07/04	0.68	02/16/04	0.073
1,1-Dichloroethane	ug/Kg	08/25/04	0.48	01/07/04	0.45	02/16/04	0.085
2-Butanone	ug/Kg	08/25/04	2.0	01/07/04	1.6	02/16/04	0.12
cis-1,2-Dichloroethene	ug/Kg	08/25/04	0.79	01/07/04	0.31	02/16/04	0.095
2,2-Dichloropropane	ug/Kg	08/25/04	0.78	01/07/04	0.86	02/16/04	0.058
Chloroform	ug/Kg	08/25/04	0.72	01/07/04	0.44	02/16/04	0.12
Bromochloromethane	ug/Kg	08/25/04	0.56	01/07/04	0.74	02/16/04	0.13
1,1,1-Trichloroethane	ug/Kg	08/25/04	1.0	01/07/04	0.50	02/16/04	0.13
1,1-Dichloropropene	ug/Kg	08/25/04	0.65	01/07/04	0.90	02/16/04	0.081
Carbon Tetrachloride	ug/Kg	08/25/04	0.59	01/07/04	0.45	02/13/04	0.36
1,2-Dichloroethane	ug/Kg	08/25/04	0.51	01/07/04	0.66	02/16/04	0.091
1,2-Dichloropropane	ug/Kg	08/25/04	0.99	01/07/04	0.44	02/16/04	0.096
Bromodichloromethane	ug/Kg	08/25/04	0.71	01/07/04	0.41	02/16/04	0.13
Dibromomethane	ug/Kg	08/25/04	0.59	01/07/04	0.69	02/16/04	0.16
2-Chloroethylvinylether	ug/Kg	01/30/03	0.25	08/08/03	0.37	02/12/03	0.31
4-Methyl-2-Pentanone	ug/Kg	08/25/04	1.6	01/07/04	0.73	02/13/04	0.25
Tetramethyl THF	ug/Kg	08/25/04	0.88	01/07/04	0.43		
cis-1,3-Dichloropropene	ug/Kg	08/25/04	0.52	01/07/04	0.41	02/13/04	0.26
trans-1,3-Dichloropropene	ug/Kg	08/25/04	0.80	01/07/04	0.54	02/16/04	0.091
1,1,2-Trichloroethane	ug/Kg	08/25/04	0.78	01/07/04	0.55	02/16/04	0.25
2-Hexanone	ug/Kg	08/25/04	0.81	01/07/04	0.50	02/16/04	0.12
1,3-Dichloropropane	ug/Kg	08/25/04	0.51	01/07/04	0.41	02/16/04	0.048
Tetrachloroethene	ug/Kg	08/25/04	0.61	01/07/04	0.58	02/16/04	0.085
Dibromochloromethane	ug/Kg	08/25/04	0.50	01/07/04	0.40	02/16/04	0.073
1,2-Dibromoethane	ug/Kg	08/25/04	0.42	01/07/04	0.35	02/16/04	0.10
1,1,1,2-Tetrachloroethane	ug/Kg	08/25/04	0.58	01/07/04	0.67	02/16/04	0.11
Ethylbenzene	ug/Kg	08/25/04	0.42	01/07/04	0.49	02/16/04	0.065
m,p-Xylenes	ug/Kg	08/25/04	1.2	01/07/04	1.3	02/16/04	0.18
o-Xylene	ug/Kg	08/25/04	0.33	01/07/04	0.77	02/16/04	0.092
Styrene	ug/Kg	08/25/04	0.34	01/07/04	0.46	02/16/04	0.057
Bromoform	ug/Kg	08/25/04	0.82	01/07/04	0.38	02/16/04	0.18
Isopropylbenzene	ug/Kg	08/25/04	0.71	01/07/04	0.58	02/16/04	0.098
1,1,2,2-Tetrachloroethane	ug/Kg	08/25/04	0.95	01/07/04	0.48	02/16/04	0.082
1,2,3-Trichloropropane	ug/Kg	08/25/04	1.5	01/07/04	0.91	02/16/04	0.18

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Soil

Analyte	Units	MSVOA02		MSVOA03		MSVOA06	
Propylbenzene	ug/Kg	08/25/04	0.65	01/07/04	0.53	02/16/04	0.078
Bromobenzene	ug/Kg	08/25/04	0.85	01/07/04	0.37	02/16/04	0.18
1,3,5-Trimethylbenzene	ug/Kg	08/25/04	0.74	01/07/04	1.2	02/16/04	0.069
2-Chlorotoluene	ug/Kg	08/25/04	0.58	01/07/04	0.60	02/16/04	0.089
4-Chlorotoluene	ug/Kg	08/25/04	0.59	01/07/04	0.62	02/16/04	0.099
tert-Butylbenzene	ug/Kg	08/25/04	0.50	01/07/04	0.56	02/16/04	0.069
1,2,4-Trimethylbenzene	ug/Kg	08/25/04	0.79	01/07/04	1.8	02/16/04	0.069
sec-Butylbenzene	ug/Kg	08/25/04	0.70	01/07/04	0.83	02/16/04	0.073
para-Isopropyl Toluene	ug/Kg	08/25/04	0.68	01/07/04	1.2	02/16/04	0.12
1,3-Dichlorobenzene	ug/Kg	08/25/04	0.63	01/07/04	0.32	02/16/04	0.13
1,4-Dichlorobenzene	ug/Kg	08/25/04	0.56	01/07/04	0.57	02/16/04	0.12
n-Butylbenzene	ug/Kg	08/25/04	0.85	01/07/04	2.2	02/16/04	0.11
1,2-Dichlorobenzene	ug/Kg	08/25/04	0.40	01/07/04	0.49	02/16/04	0.11
1,2-Dibromo-3-Chloropropane	ug/Kg	08/31/04	1.5	01/07/04	0.57	02/13/04	0.56
1,2,4-Trichlorobenzene	ug/Kg	08/25/04	0.84	01/07/04	2.7	02/16/04	0.23
Hexachlorobutadiene	ug/Kg	08/25/04	1.1	01/07/04	0.89	02/16/04	0.081
Naphthalene	ug/Kg	08/25/04	0.76	01/07/04	2.5	02/16/04	0.15
1,2,3-Trichlorobenzene	ug/Kg	08/25/04	0.60	01/07/04	2.5	02/16/04	0.16
tert-Butyl Alcohol (TBA)	ug/Kg	08/25/04	13	12/22/03	10	09/22/04	8.8
Isopropyl Ether (DIPE)	ug/Kg	08/25/04	0.48	12/22/03	0.65	09/22/04	0.52
Ethyl tert-Butyl Ether (ETBE)	ug/Kg	08/25/04	0.20	12/22/03	0.79	09/22/04	0.42
Methyl tert-Amyl Ether (TAME)	ug/Kg	08/25/04	0.48	12/22/03	0.68	09/22/04	0.64
Isopropanol	ug/Kg	08/25/04	22	12/22/03	9.3	09/22/04	9.0
Ethanol	ug/Kg	08/25/04	84	12/22/03	72	09/22/04	150
Cyclohexanone	ug/Kg	08/25/04	2.0			09/22/04	14
Tetrahydrofuran	ug/Kg	08/25/04	1.2				
Gasoline C6-C10	mg/Kg					09/07/04	0.018
Gasoline C7-C12	mg/Kg					09/07/04	0.014
Dibromofluoromethane	ug/Kg	08/25/04	2.4	08/08/03	3.0		
1,2-Dichloroethane-d4	ug/Kg	08/25/04	2.7	08/08/03	2.9		
Toluene-d8	ug/Kg	08/25/04	2.4	08/08/03	2.2		
Bromofluorobenzene	ug/Kg	08/25/04	4.2	08/08/03	2.3		
Trifluorotoluene	ug/Kg	08/25/04	0.41				

Sample Raw Data

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA02	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 414481618010	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: bkt10	Batchnum	: 96931	Injected	: 29-NOV-2004 14:28
IDF	: 0.9259	PDF	: 1.0	Units	: ug/Kg
Calnum	: 414435400002	Caldate	: 28-OCT-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=bkt09	Flags
Freon 12	ND		9.3		
Chloromethane	ND		9.3		
Vinyl Chloride	ND		9.3		
Bromomethane	ND		9.3		
Chloroethane	ND		9.3		
Trichlorofluoromethane	ND		4.6		
Acetone	ND		19	2.5	
Freon 113	ND		4.6		
1,1-Dichloroethene	ND		4.6		
Methylene Chloride	ND		19	0.46	
Carbon Disulfide	ND		4.6		
MTBE	ND		4.6		
trans-1,2-Dichloroethene	ND		4.6		
Vinyl Acetate	ND		46		
1,1-Dichloroethane	ND		4.6		
2-Butanone	ND		9.3		
cis-1,2-Dichloroethene	ND		4.6		
2,2-Dichloropropane	ND		4.6		
Chloroform	ND		4.6		
Bromochloromethane	ND		4.6		
1,1,1-Trichloroethane	ND		4.6		
1,1-Dichloropropene.....	~~5.8~~ ND	-0.319	4.6		x
Carbon Tetrachloride.....	~~8.8~~	-0.280	4.6		x
1,2-Dichloroethane	ND		4.6		
Benzene	ND		4.6		
Trichloroethene	ND		4.6		
1,2-Dichloropropane	ND		4.6		
Bromodichloromethane	ND		4.6		
Dibromomethane	ND		4.6		
4-Methyl-2-Pentanone	ND		9.3		
cis-1,3-Dichloropropene	ND		4.6		
Toluene	ND		4.6		
trans-1,3-Dichloropropene	ND		4.6		
1,1,2-Trichloroethane	ND		4.6		
2-Hexanone	ND		9.3		
1,3-Dichloropropane	ND		4.6		
Tetrachloroethene	ND		4.6		
Dibromochloromethane	ND		4.6		
1,2-Dibromoethane	ND		4.6		
Chlorobenzene	ND		4.6		
1,1,1,2-Tetrachloroethane	ND		4.6		
Ethylbenzene	ND		4.6		
m,p-Xylenes	ND		4.6		

x=false positive

Analyst: _____ Date: 11/30/04 Reviewer: _____ Date: 12/16/4

Page 1 of 2

SAMPLE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA02	Samplenum:	176248-003	Cident	: BB3EX153[0.5]
Seqnum	: 414481618010	Matrix	: Soil	Acctnum	: TREADWELL (SES)
Filename	: bkt10	Batchnum	: 96931	Injected	: 29-NOV-2004 14:28
IDF	: 0.9259	PDF	: 1.0	Units	: ug/Kg
Calnum	: 414435400002	Caldate	: 28-OCT-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	B=bkt09	Flags
o-Xylene	ND		4.6		
Styrene	ND		4.6		
Bromoform	ND		4.6		
Isopropylbenzene	ND		4.6		
1,1,2,2-Tetrachloroethane	ND		4.6		
1,2,3-Trichloropropane	ND		4.6		
Propylbenzene	ND		4.6		
Bromobenzene	ND		4.6		
1,3,5-Trimethylbenzene	ND		4.6		
2-Chlorotoluene	ND		4.6		
4-Chlorotoluene	ND		4.6		
tert-Butylbenzene	ND		4.6		
1,2,4-Trimethylbenzene	ND		4.6		
sec-Butylbenzene	ND		4.6		
para-Isopropyl Toluene	ND		4.6		
1,3-Dichlorobenzene	ND		4.6		
1,4-Dichlorobenzene	ND		4.6		
n-Butylbenzene	ND		4.6		
1,2-Dichlorobenzene	ND		4.6		
1,2-Dibromo-3-Chloropropane	ND		4.6		
1,2,4-Trichlorobenzene	ND		4.6		
Hexachlorobutadiene	ND		4.6		
Naphthalene	ND		4.6		
1,2,3-Trichlorobenzene	ND		4.6		

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	46.30	45.06	97	59-113	
1,2-Dichloroethane-d4	46.30	49.76	107	70-121	
Toluene-d8	46.30	47.89	103	84-138	
Bromofluorobenzene	46.30	45.50	98	59-113	

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	288150	-20.38	11.86	11.83	-0.03
1,4-Difluorobenzene	521847	393549	-24.59	13.09	13.05	-0.04
Chlorobenzene-d5	489940	372741	-23.92	17.64	17.62	-0.02
1,4-Dichlorobenzene-d4	259088	206591	-20.26	21.02	21.01	-0.01

x=false positive

Analyst: _____ Date: 11/30/04 Reviewer: BAO Date: 12/1/04

Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D
Report Date: 29-Nov-2004 15:50

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 14:28 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : MSS,176248-003
Misc Info : 96931,5.4/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\826GOX02.m
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	6.487	6.481	(0.548)	516	0.22991	0.2299
10 Acetone	43	8.269	8.302	(0.699)	3113	3.12862	3.1286
11 Isopropanol	45	8.397	8.420	(0.710)	95	0.41376	0.4137
13 Methylene Chloride	84	9.037	9.060	(0.764)	23235	7.11219	7.1121
21 2-Butanone	43	11.113	11.137	(0.939)	1061	0.72989	0.7298
25 Tetrahydrofuran	42	11.546	11.560	(0.976)	4701	5.54486	5.5448
26 Chloroform	83	11.586	11.609	(0.979)	719	0.17354	0.1735
* 27 Pentafluorobenzene	168	11.832	11.855	(1.000)	288150	50.0000	
$ 28 Dibromofluoromethane	113	11.861	11.885	(1.002)	124761	48.6620	48.6620
30 Carbon Tetrachloride	117	11.832	12.140	(0.906)	23683	9.53722	9.5372
31 1,1-Dichloropropene	75	11.822	12.170	(0.906)	17206	6.22933	6.2293
$ 32 1,2-Dichloroethane-d4	65	12.472	12.495	(0.956)	108661	53.7410	53.7410
* 36 1,4-Difluorobenzene	114	13.052	13.085	(1.000)	393549	50.0000	
44 4-Methyl-2-Pentanone	43	15.365	15.172	(1.177)	2483	0.92986	0.9298
$ 45 Toluene-d8	98	15.365	15.388	(1.177)	422257	51.7160	51.7159
51 2-Hexanone	43	16.310	16.432	(0.926)	318	0.15967	0.1596

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D
Report Date: 29-Nov-2004 15:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
* 55 Chlorobenzene-d5	117	17.619	17.642	(1.000)	372741	50.0000	
64 Cyclohexanone	55	19.332	19.325	(0.920)	438	2.61579	2.6157
$ 65 Bromofluorobenzene	95	19.342	19.355	(0.921)	197177	49.1438	49.1438
* 78 1,4-Dichlorobenzene-d4	152	21.005	21.018	(1.000)	206591	50.0000	
85 Naphthalene	128	24.538	24.562	(1.168)	928	0.12425	0.1242

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D
Report Date: 29-Nov-2004 15:50

Curtis & Tompkins, Ltd.

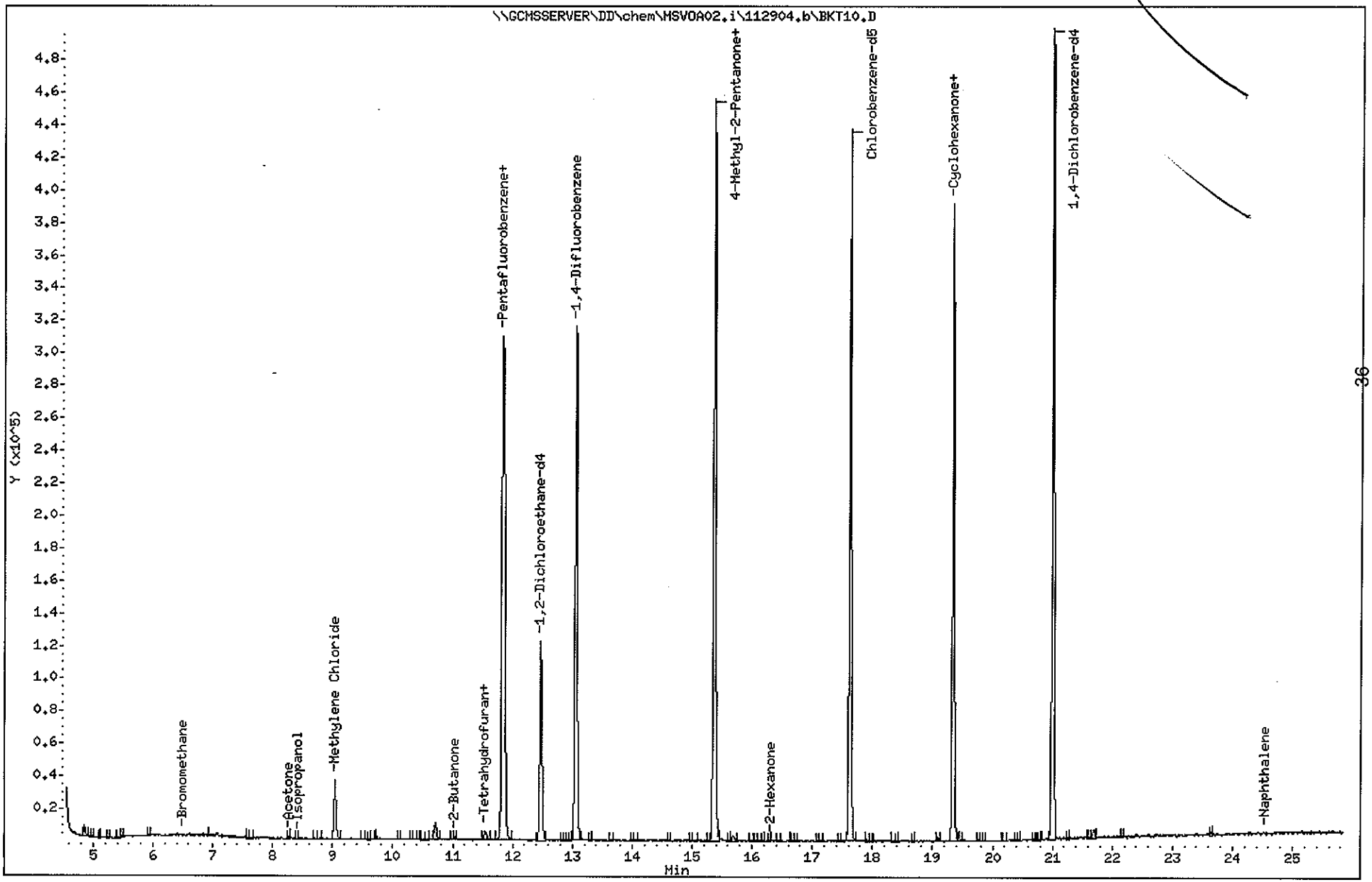
Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 14:28 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : MSS,176248-003
Misc Info : 96931,5.4/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\826GOX02.m
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D
Date : 29-NOV-2004 14:28
Client ID: DYNA P&T
Sample Info: MSS,176248-003
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA02.i

Operator: AJA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MSS,176248-003

Purge Volume: 5.0

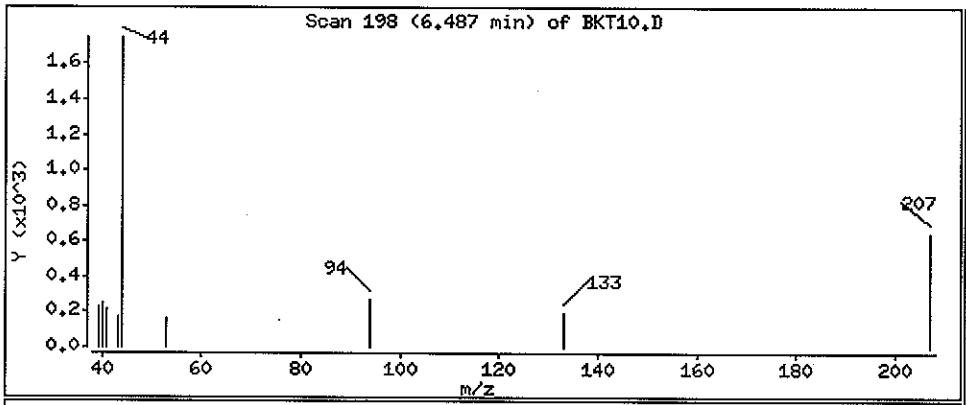
Operator: AJA

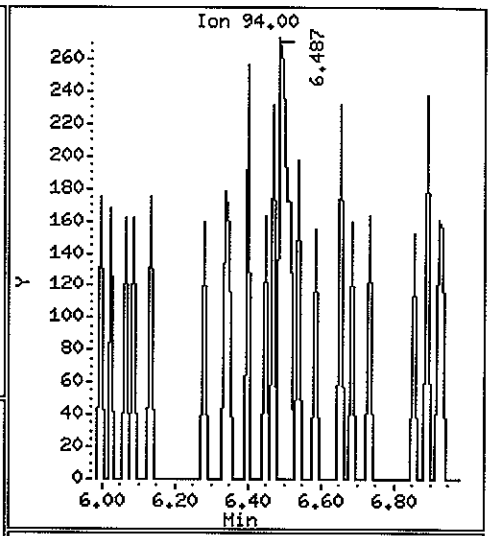
Column phase: RTx Volatiles

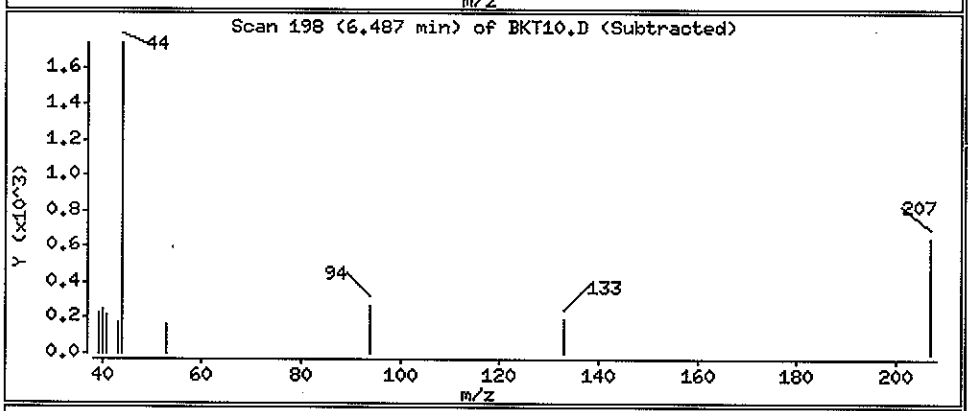
Column diameter: 0.32

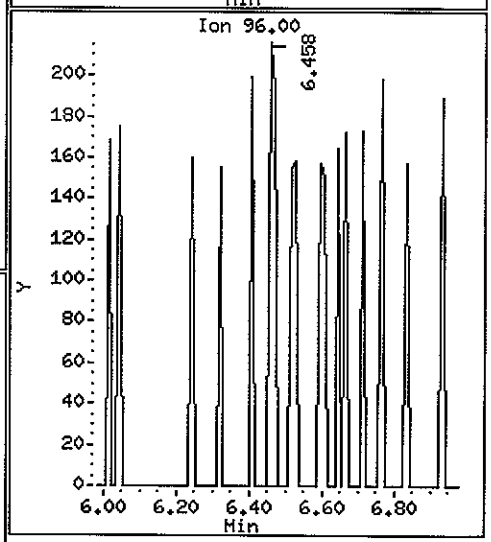
4 Bromomethane

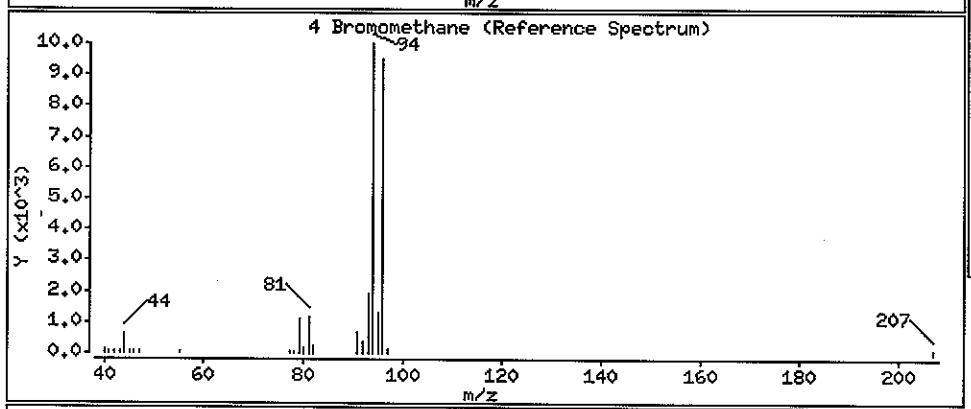
Concentration: 0.2299 UG/L

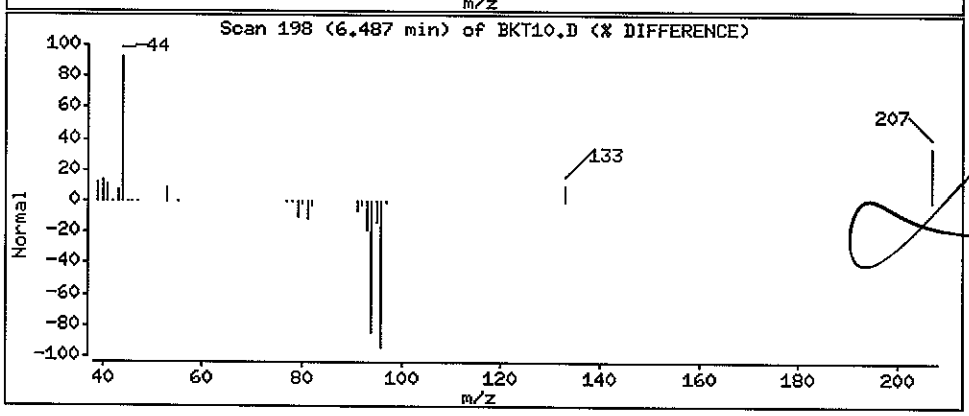












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MSS,176248-003

Purge Volume: 5.0

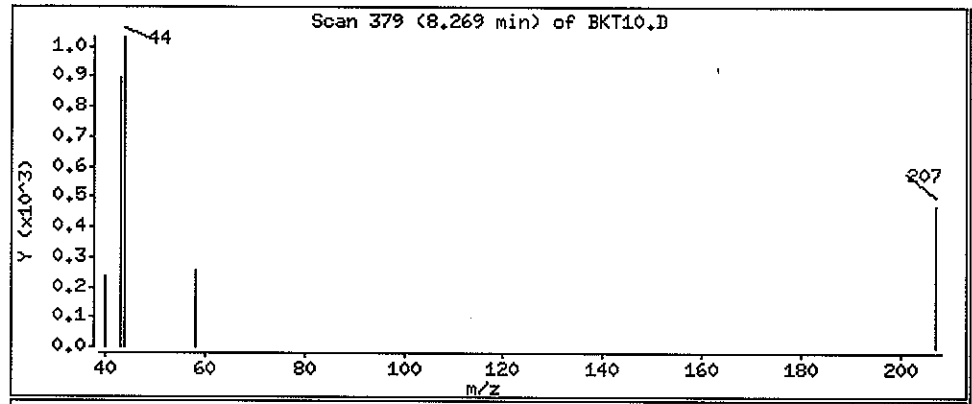
Operator: AJA

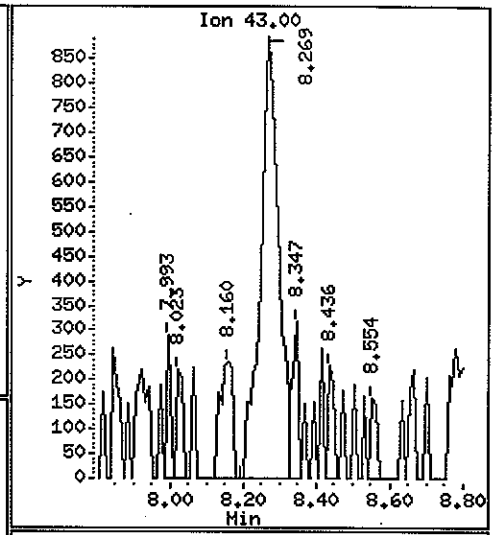
Column phase: RTx Volatiles

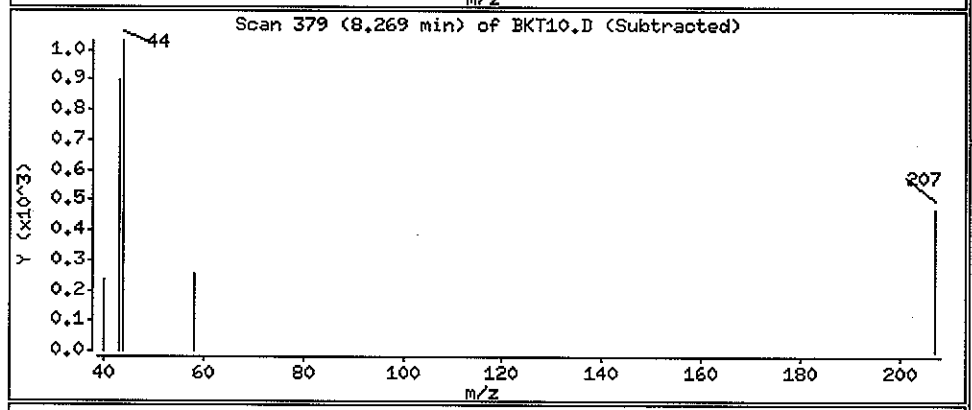
Column diameter: 0.32

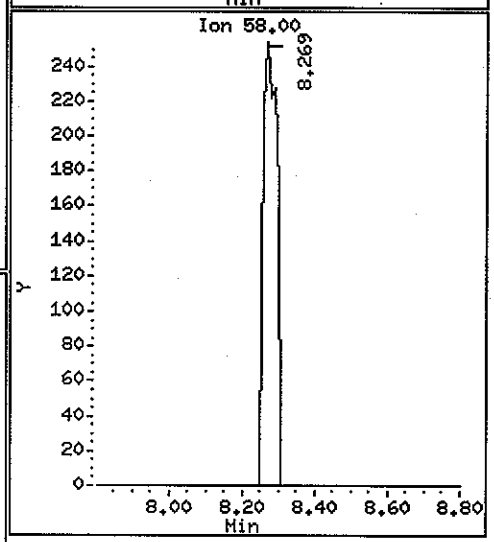
10 Acetone

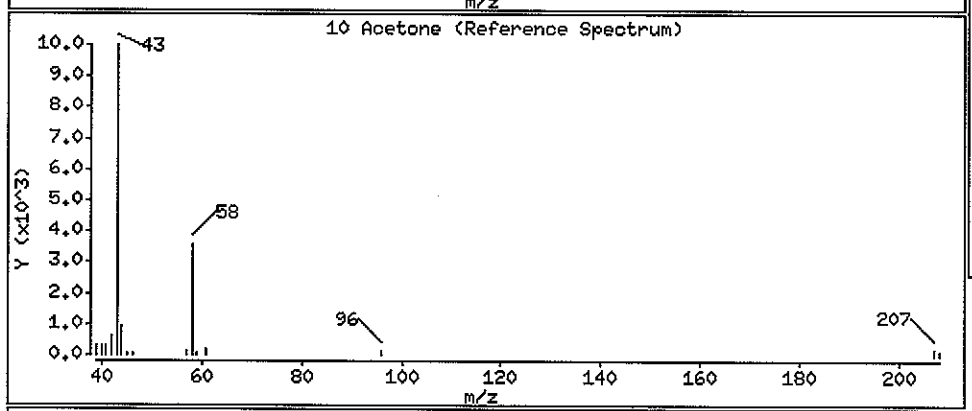
Concentration: 3.1286 UG/L

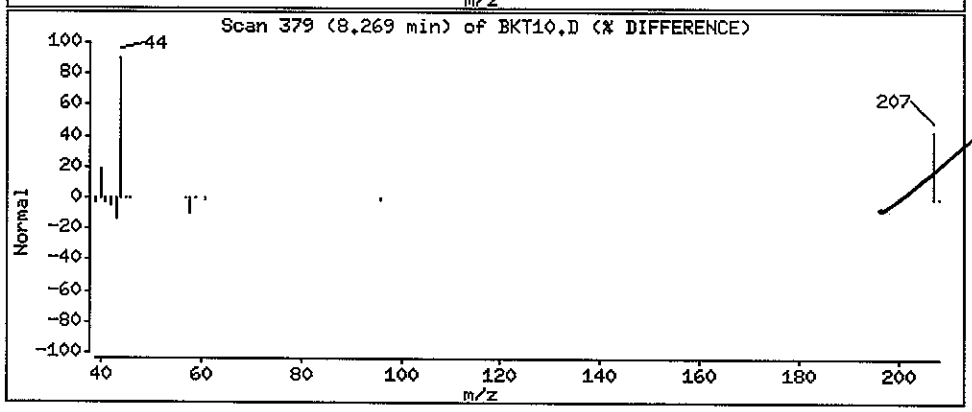












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

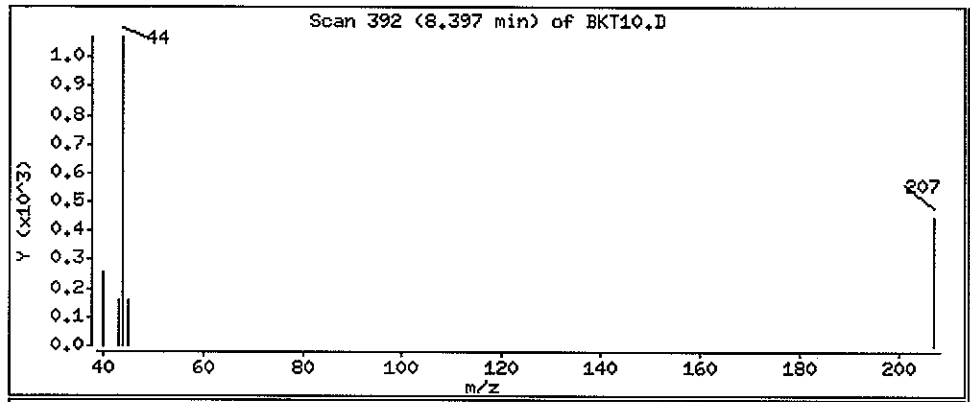
Client ID: DYNA P&T | Instrument: MSVOA02.i

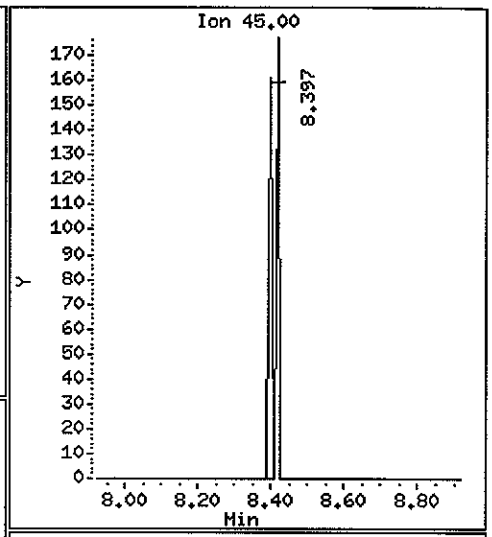
Sample Info: MSS,176248-003

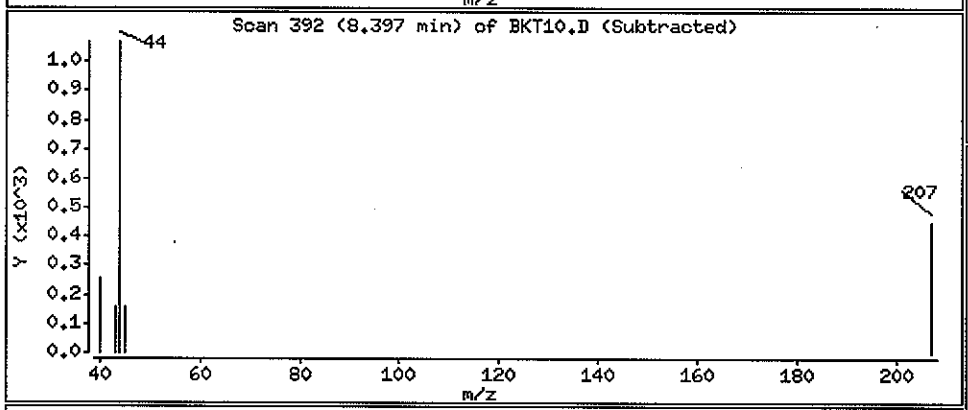
Purge Volume: 5.0 | Operator: AJA

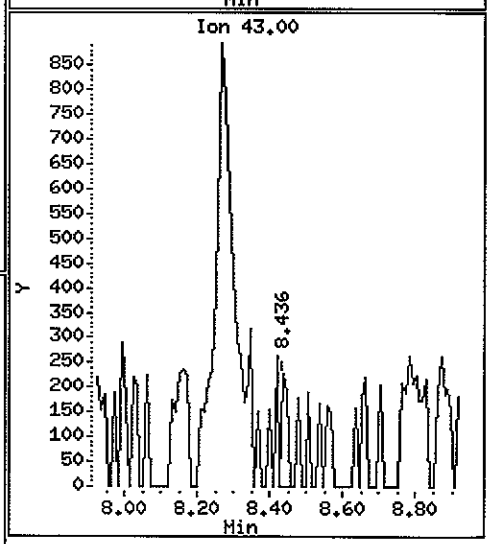
Column phase: RTx Volatiles | Column diameter: 0.32

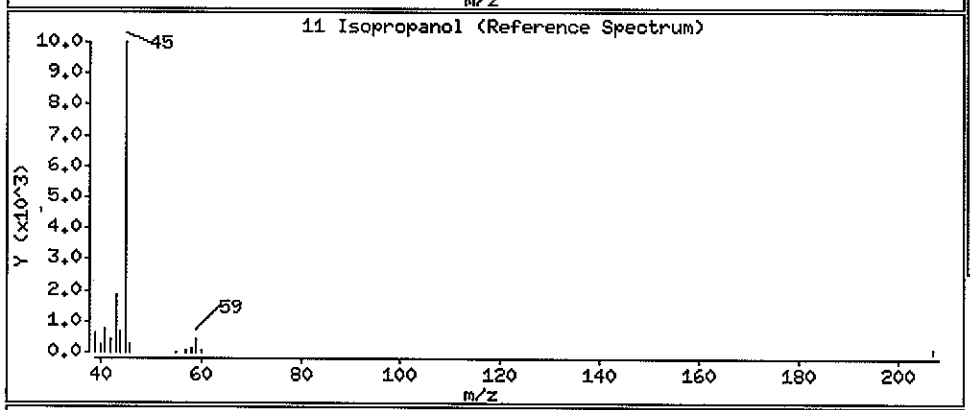
11 Isopropanol | Concentration: 0.4137 UG/L

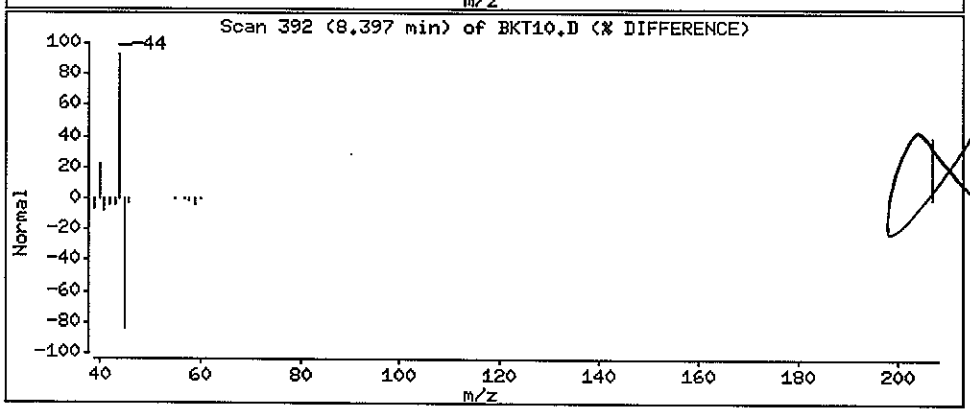












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MSS,176248-003

Purge Volume: 5.0

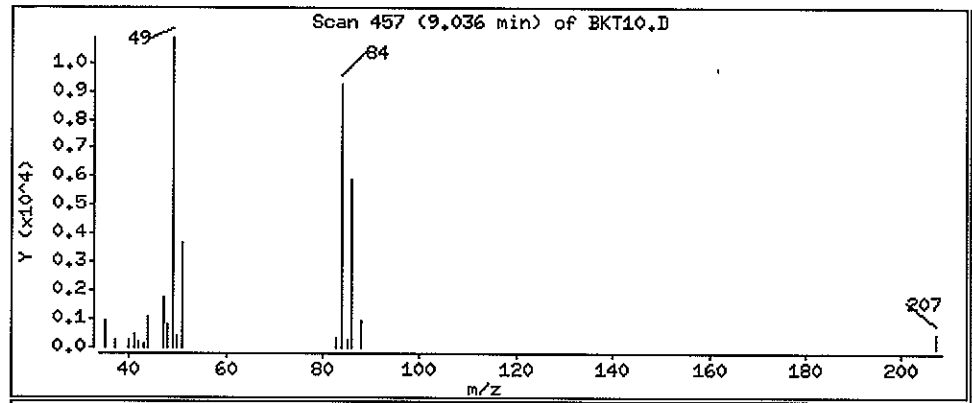
Operator: AJA

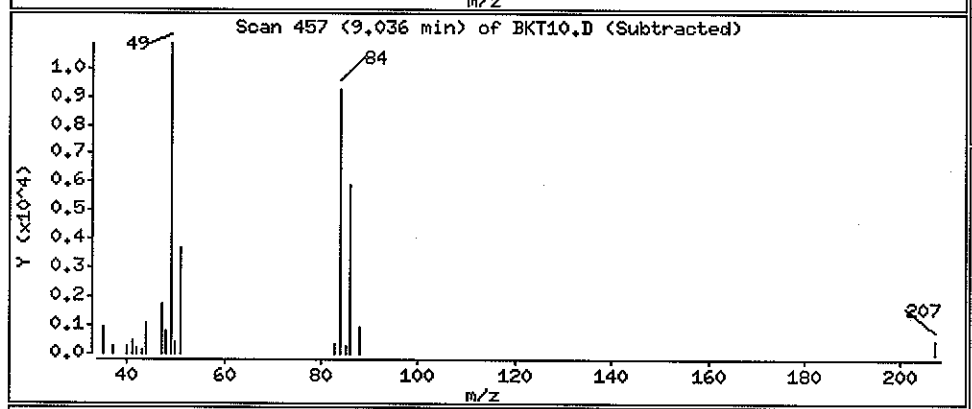
Column phase: RTx Volatiles

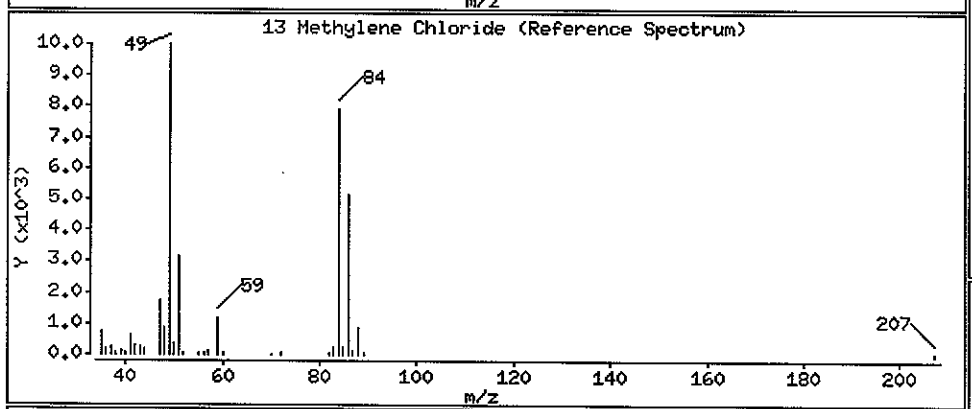
Column diameter: 0.32

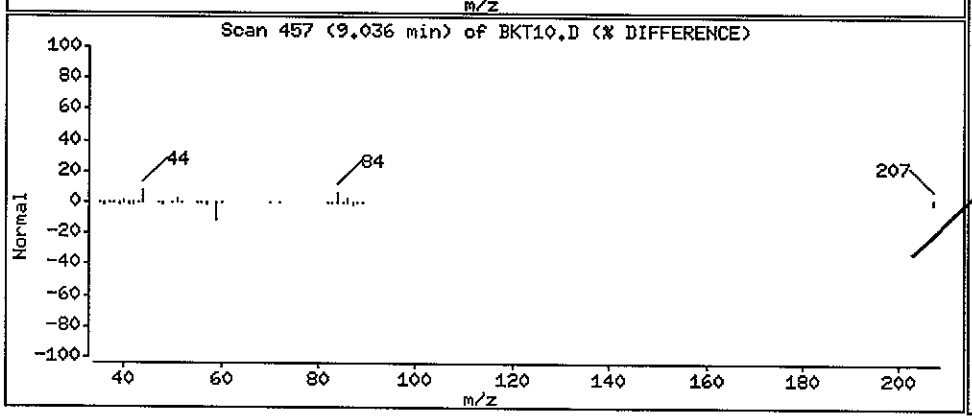
13 Methylene Chloride

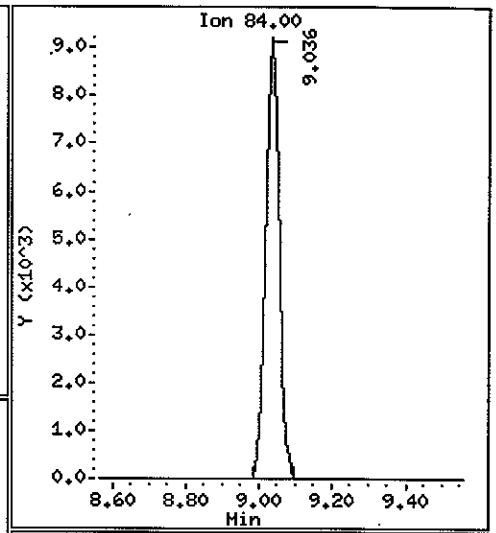
Concentration: 7.1121 UG/L

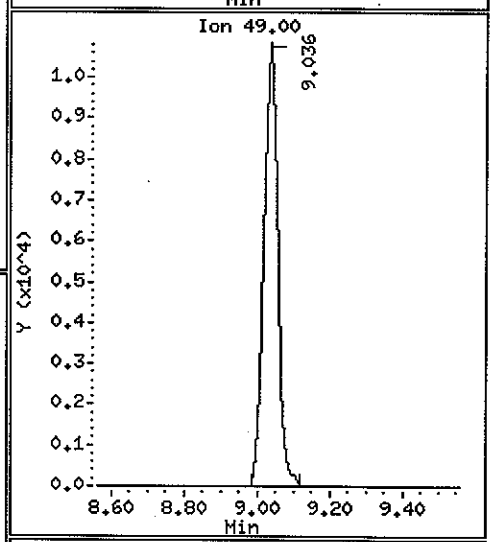


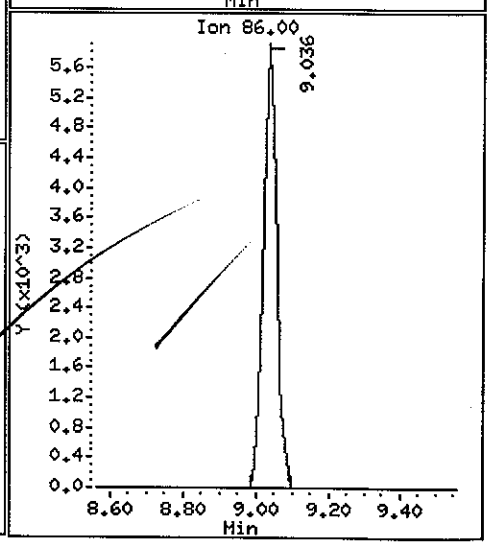












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Date : 29-NOV-2004 14:28

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MSS,176248-003

Purge Volume: 5.0

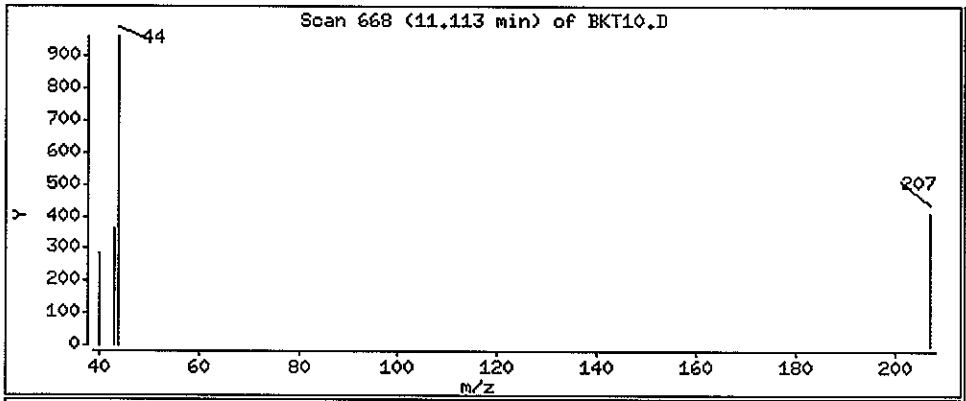
Operator: AJA

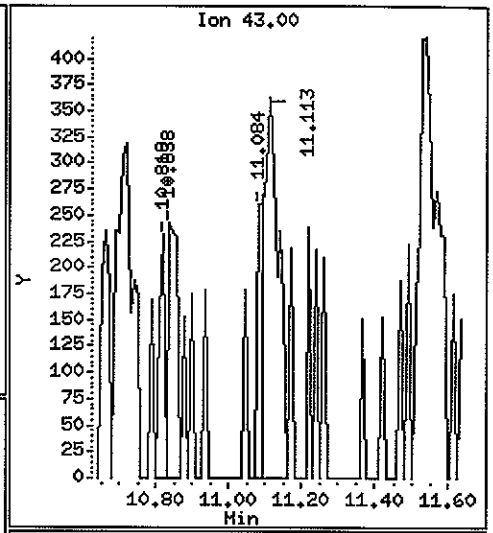
Column phase: RTx Volatiles

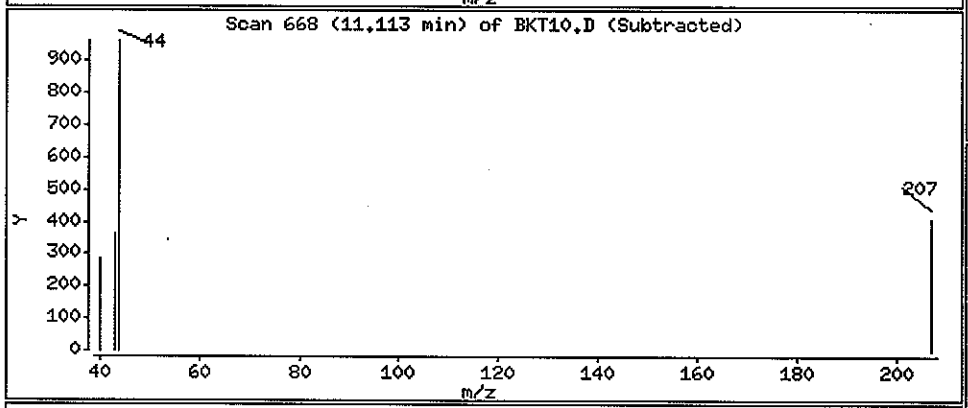
Column diameter: 0.32

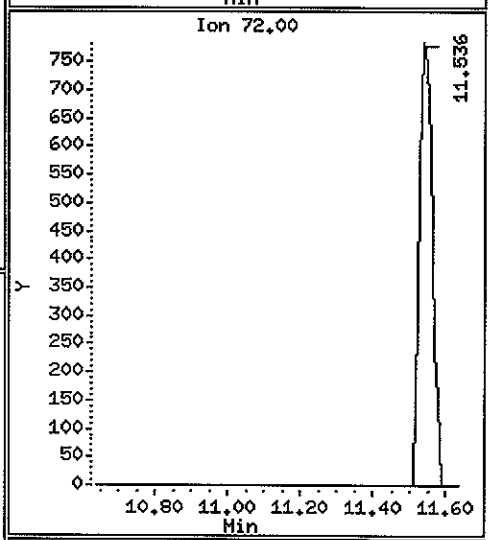
21 2-Butanone

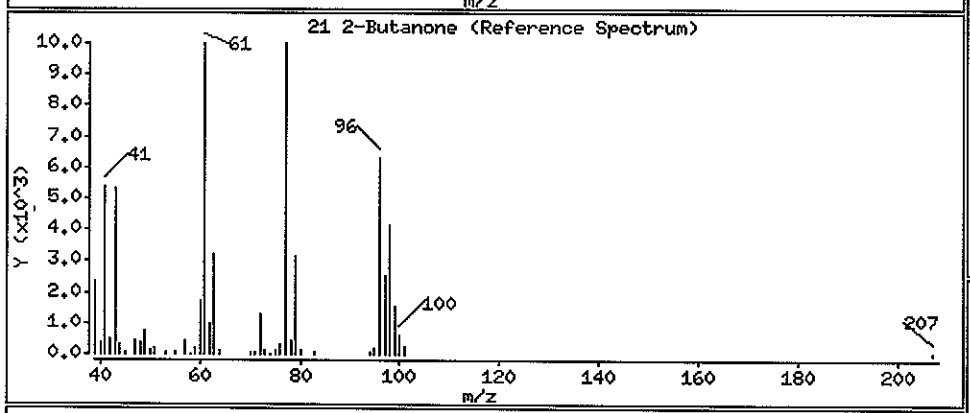
Concentration: 0.7298 UG/L

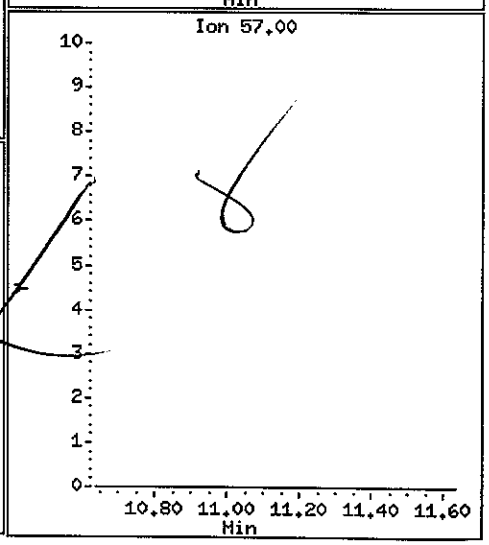


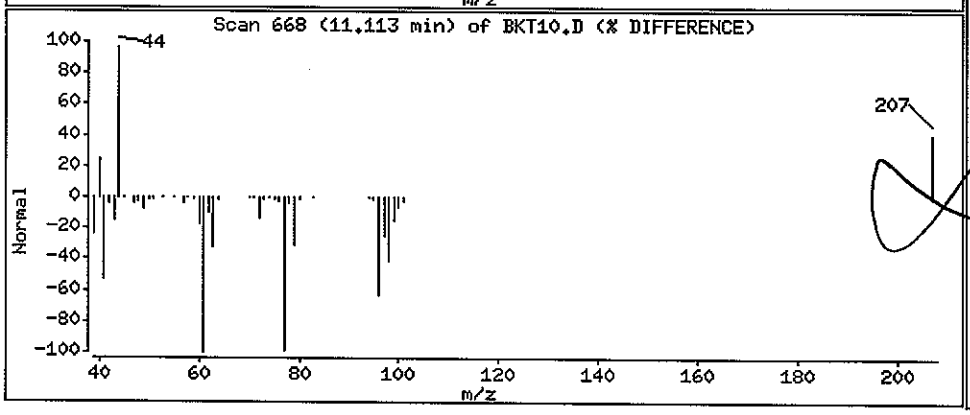












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

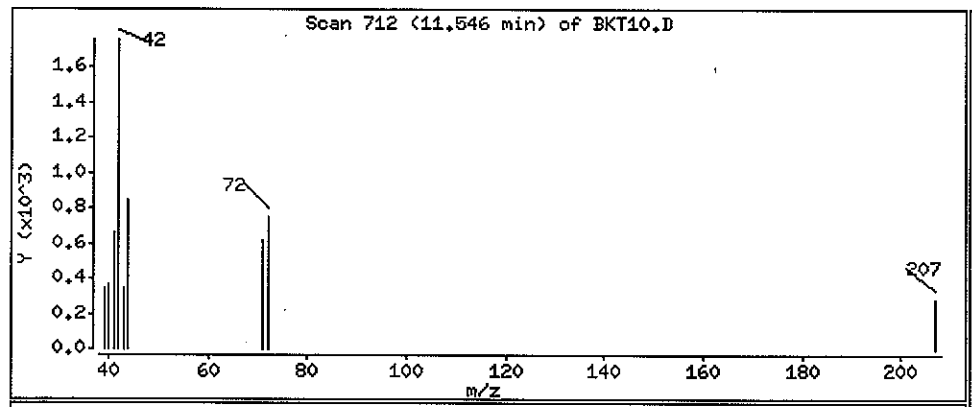
Client ID: DYNA P&T | Instrument: MSVOA02.i

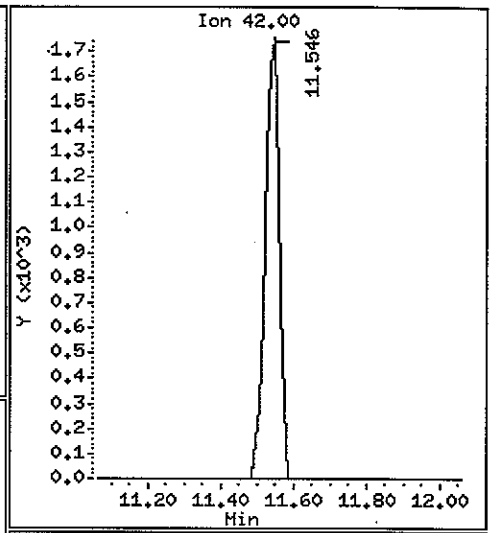
Sample Info: MSS,176248-003

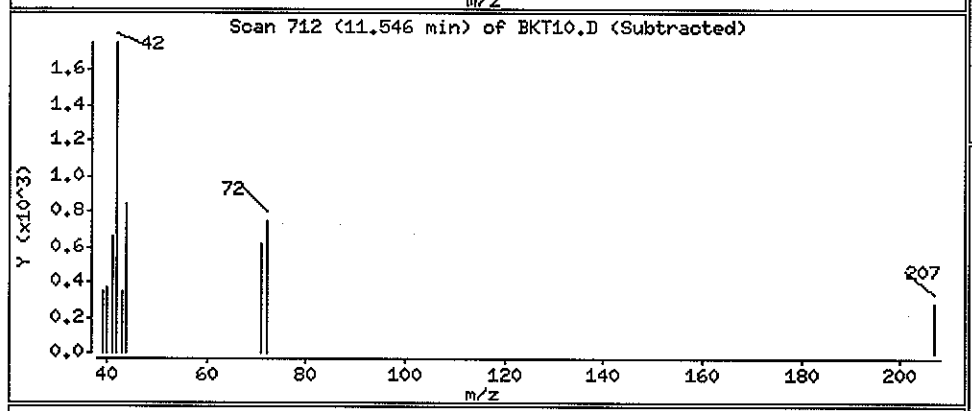
Purge Volume: 5.0 | Operator: AJA

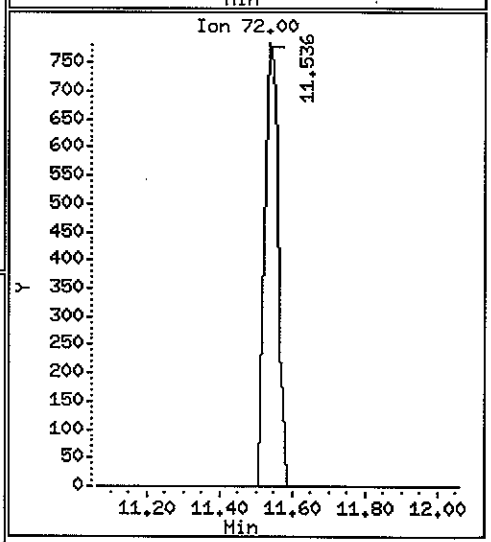
Column phase: RTx Volatiles | Column diameter: 0.32

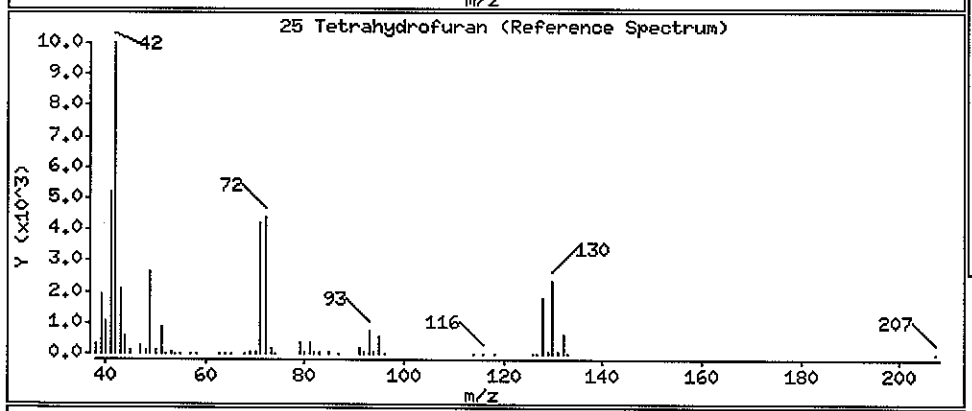
25 Tetrahydrofuran | Concentration: 5.5448 UG/L

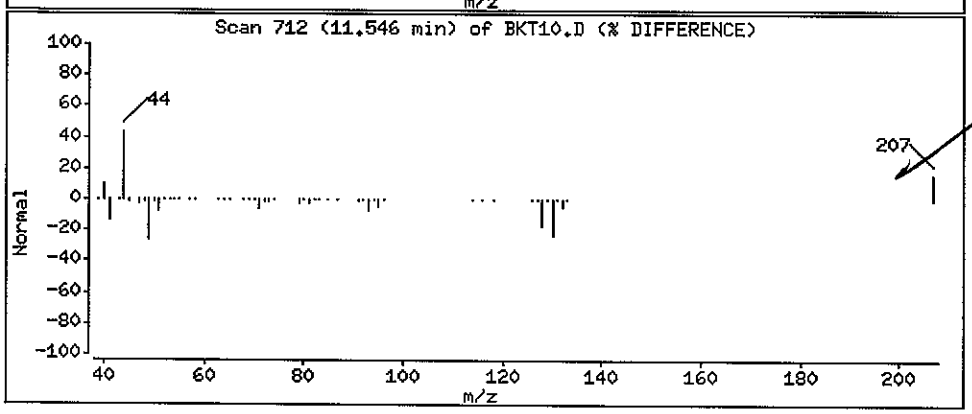












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

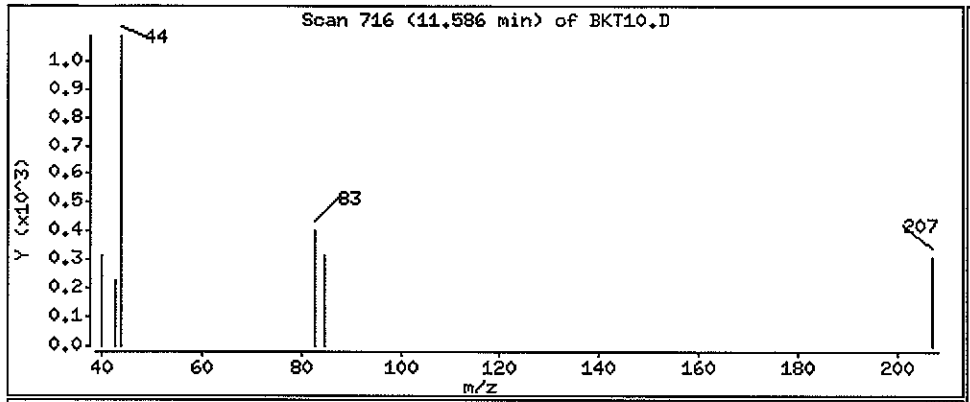
Client ID: DYNA P&T | Instrument: MSVOA02.i

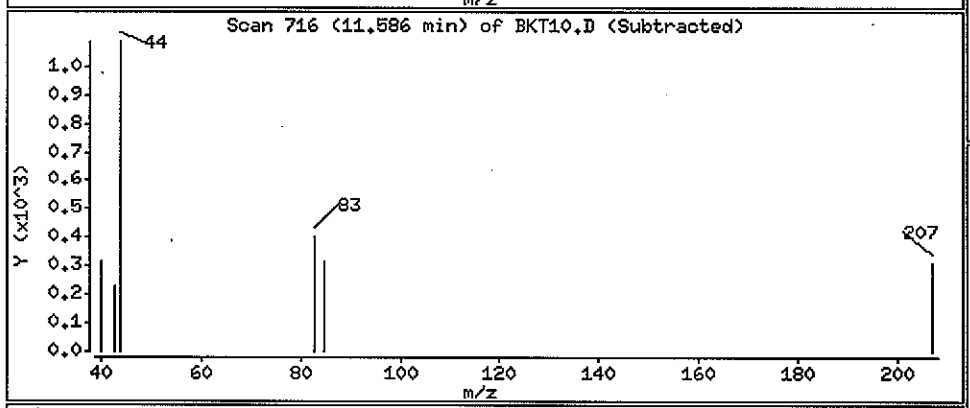
Sample Info: MSS,176248-003

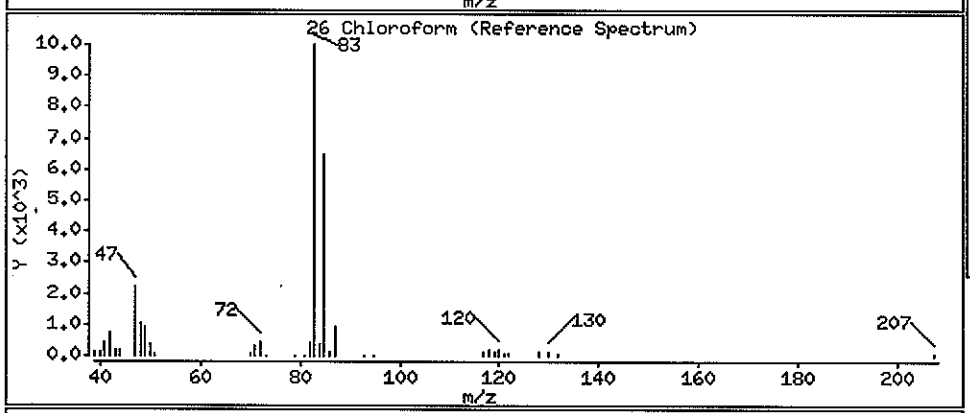
Purge Volume: 5.0 | Operator: AJA

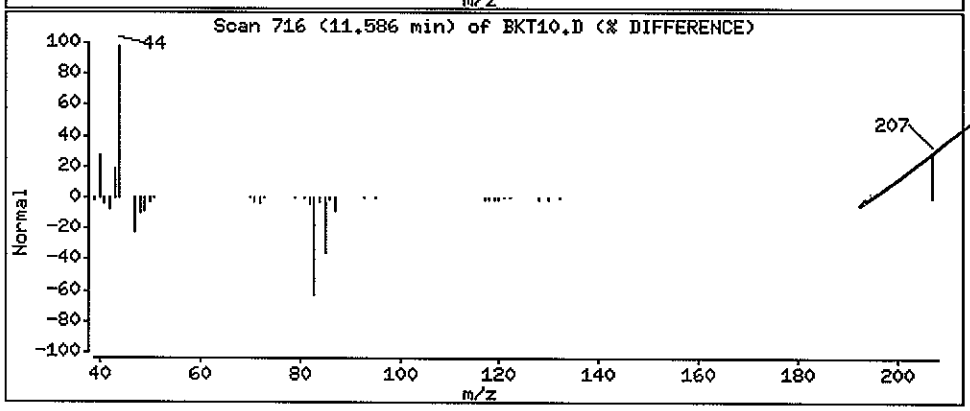
Column phase: RTx Volatiles | Column diameter: 0.32

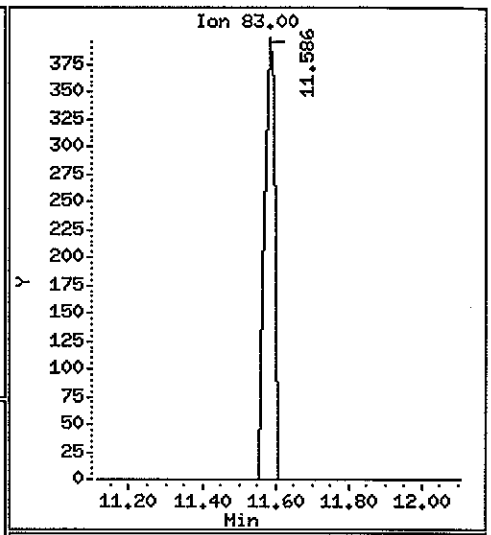
26 Chloroform | Concentration: 0.1735 UG/L

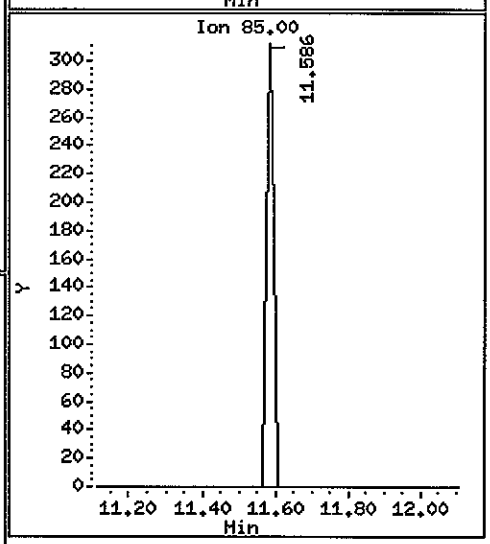












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MSS,176248-003

Purge Volume: 5.0

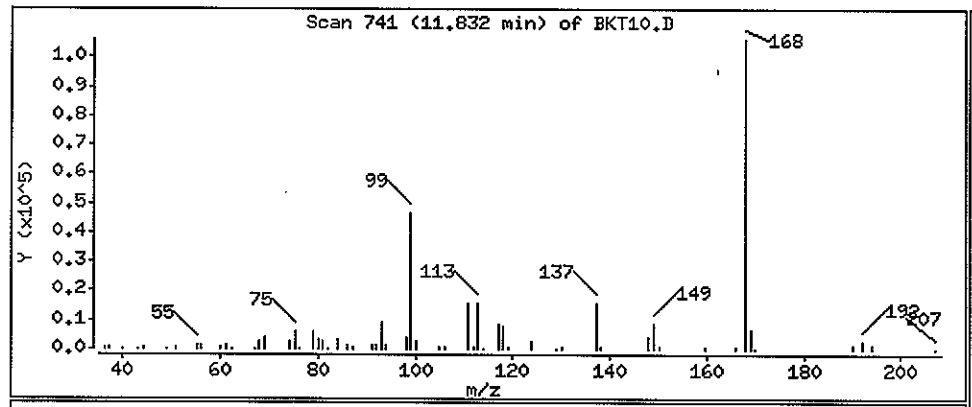
Operator: AJA

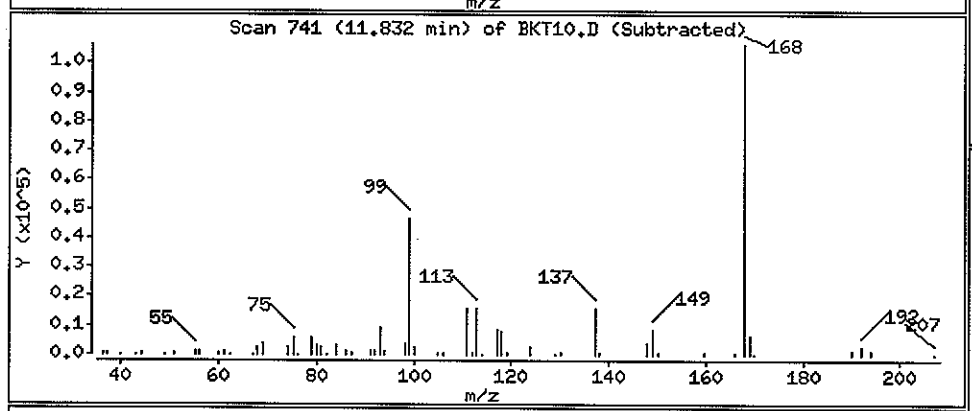
Column phase: RTx Volatiles

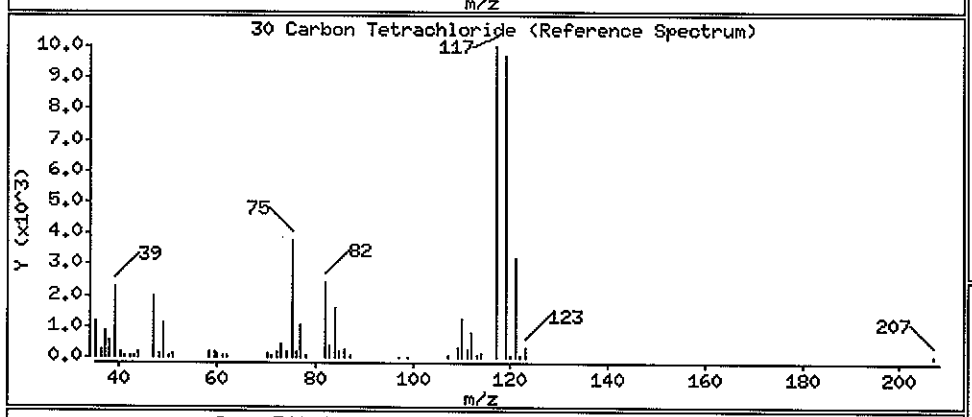
Column diameter: 0.32

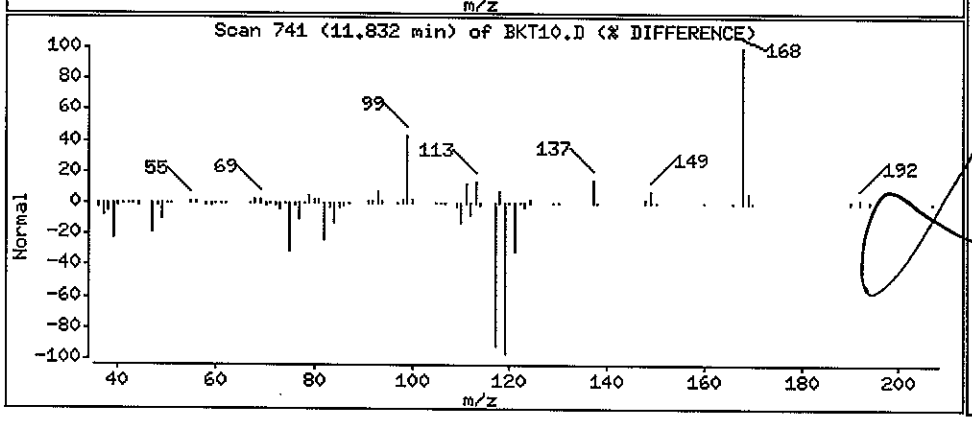
30 Carbon Tetrachloride

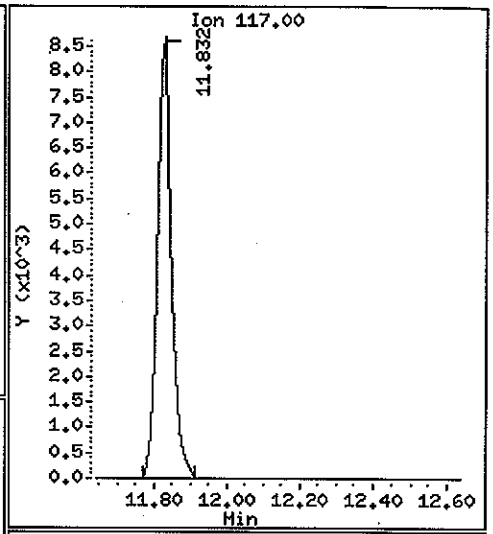
Concentration: 9.5372 UG/L

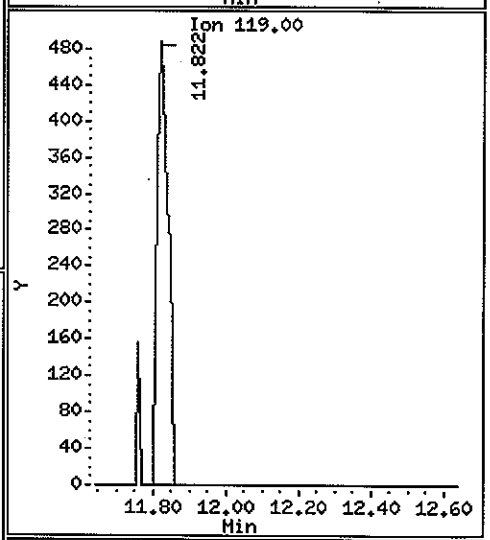


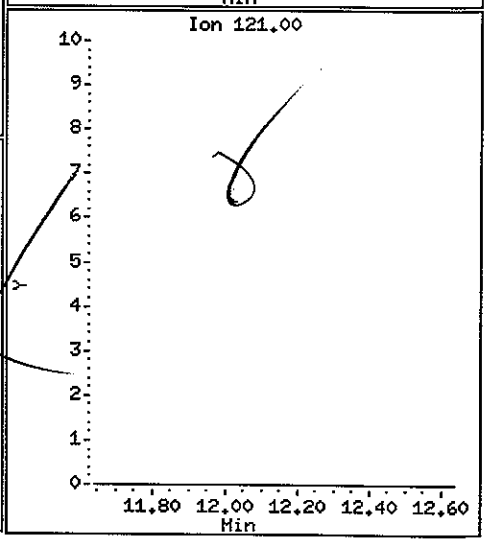












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

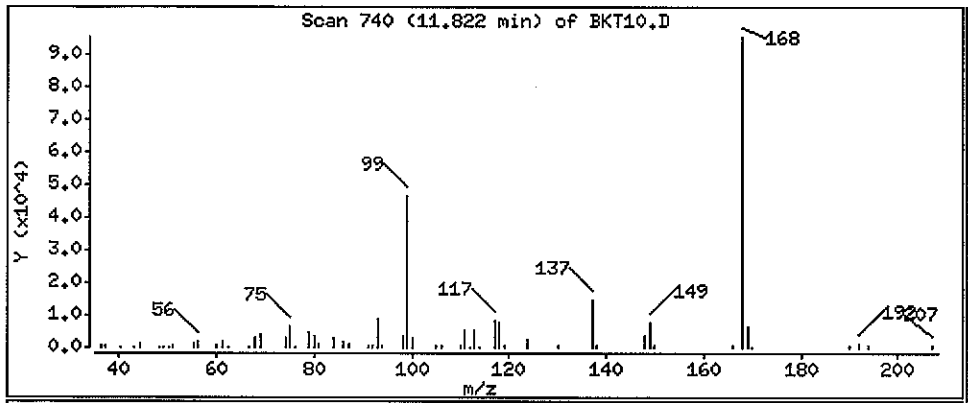
Client ID: DYNA P&T | Instrument: MSVOA02.i

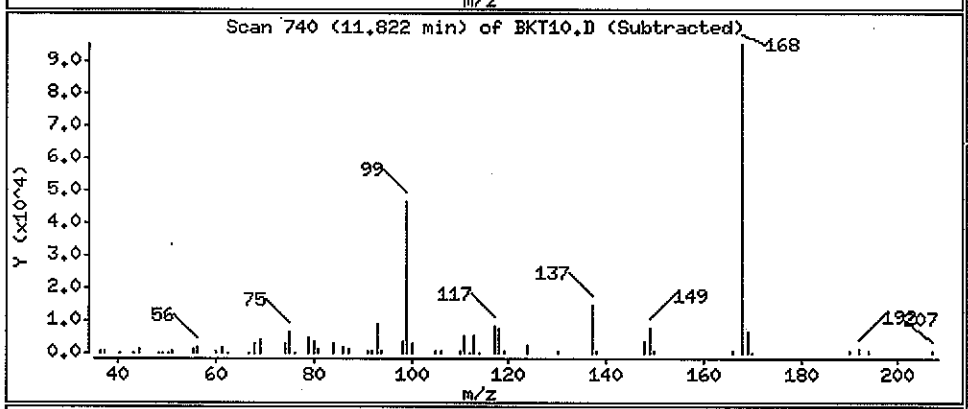
Sample Info: MSS,176248-003

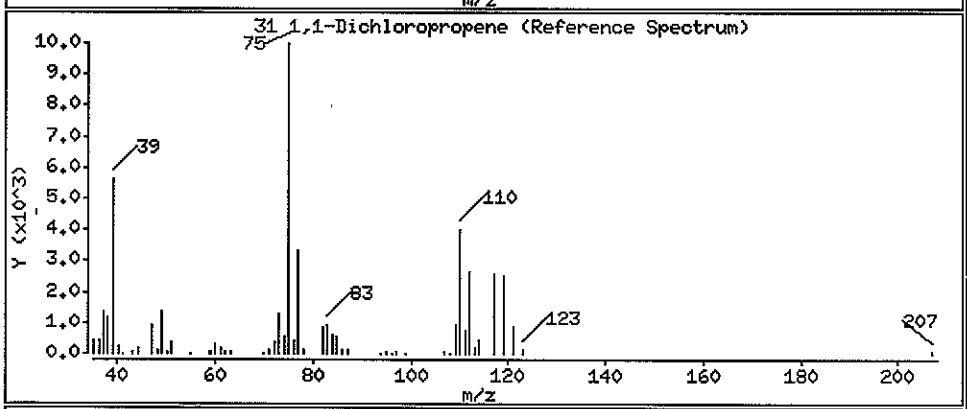
Purge Volume: 5.0 | Operator: AJA

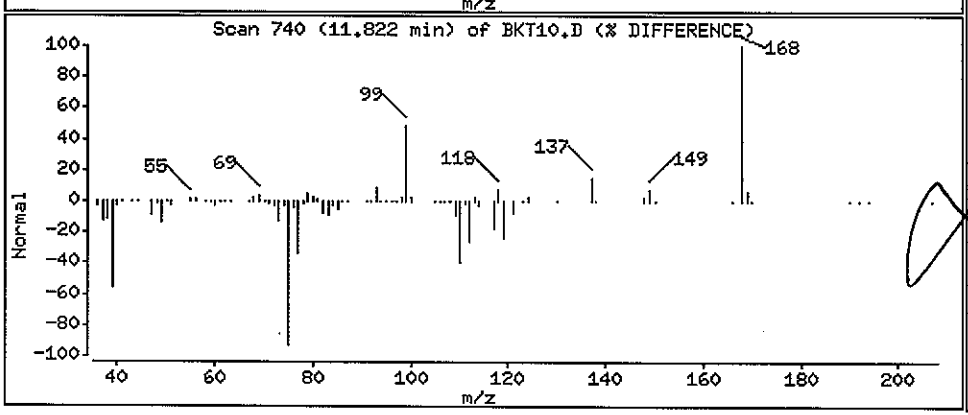
Column phase: RTx Volatiles | Column diameter: 0.32

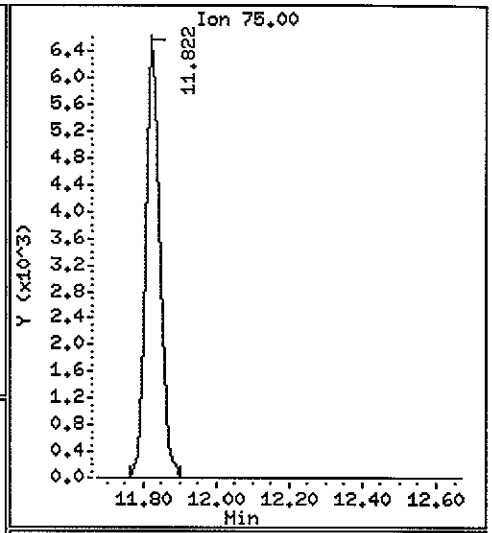
31 1,1-Dichloropropene | Concentration: 6.2293 UG/L

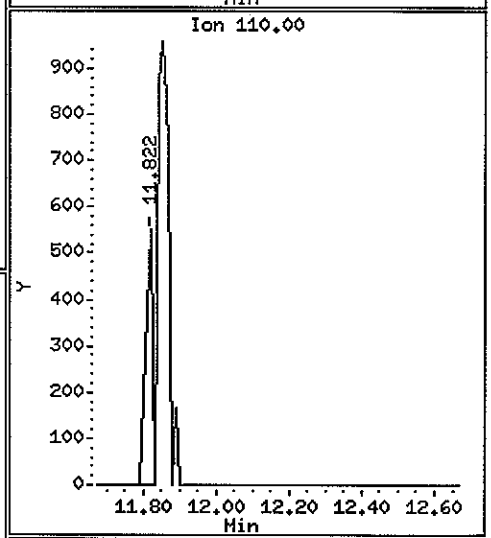


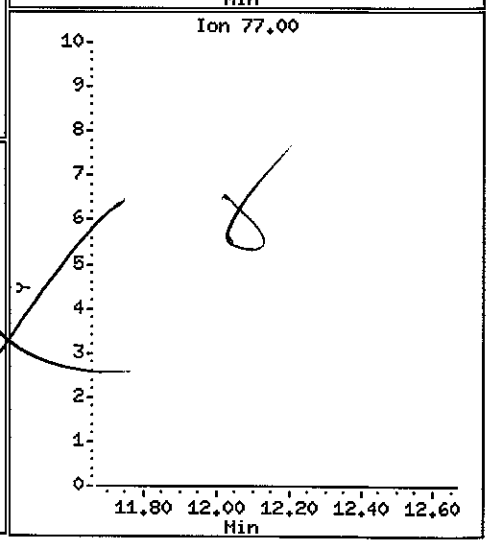












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

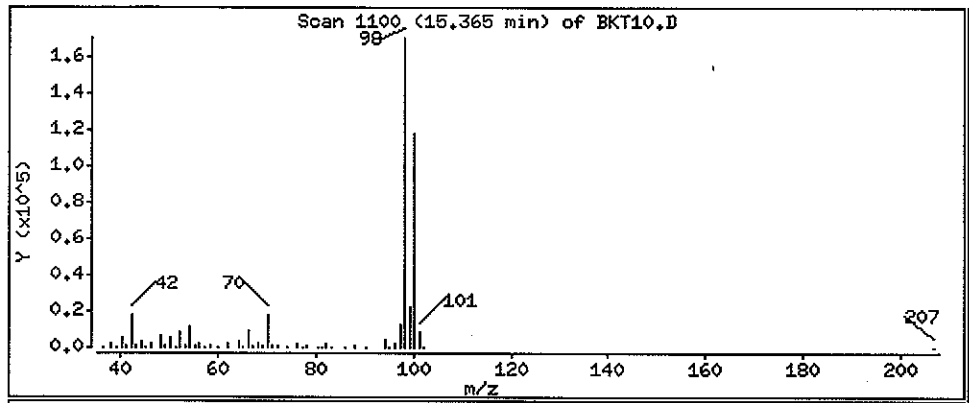
Client ID: DYNA P&T | Instrument: MSVOA02.i

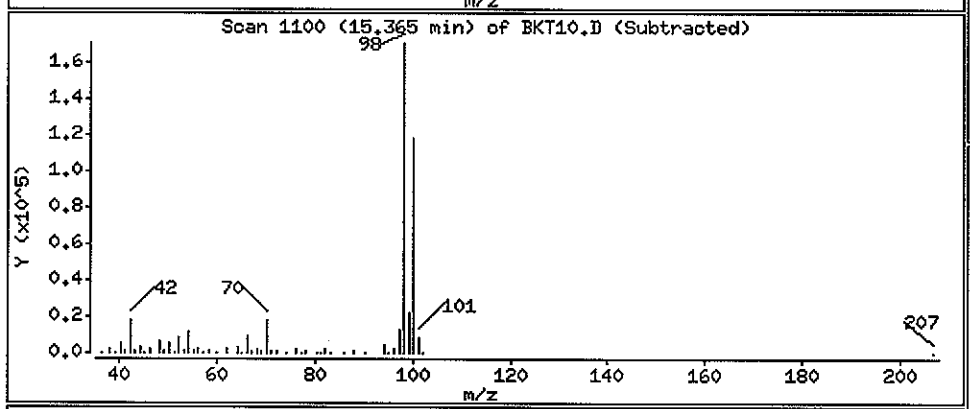
Sample Info: MSS,176248-003

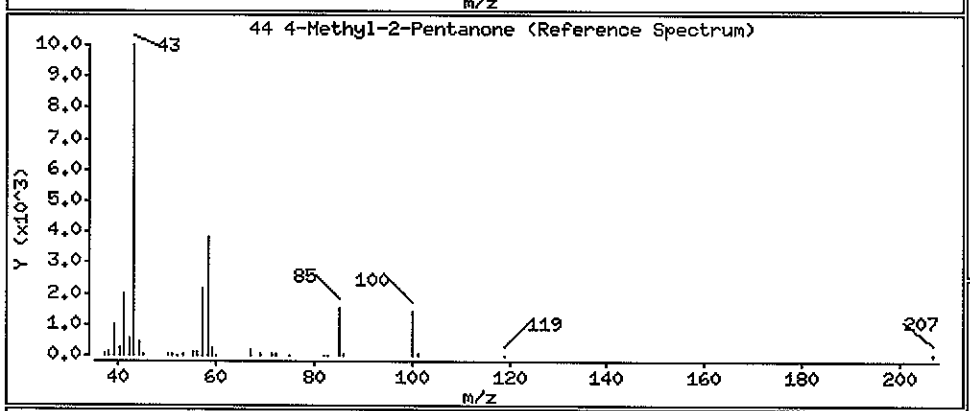
Purge Volume: 5.0 | Operator: AJA

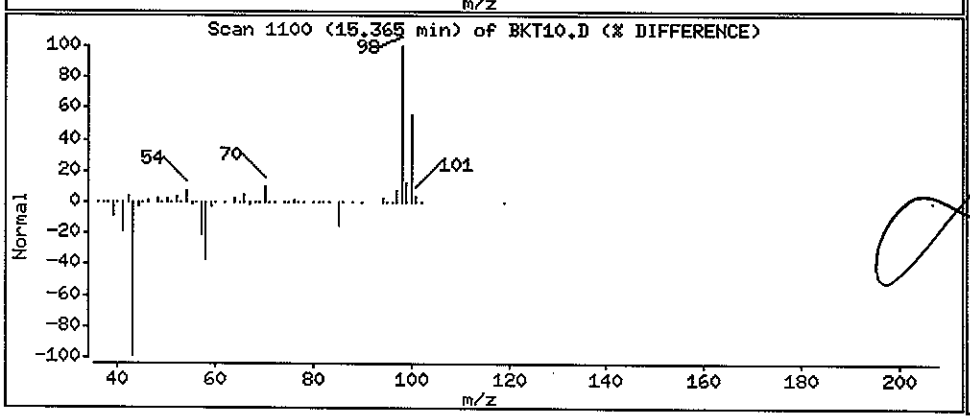
Column phase: RTx Volatiles | Column diameter: 0.32

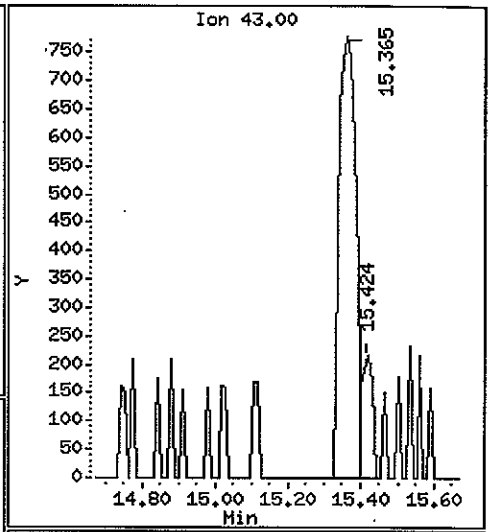
44 4-Methyl-2-Pentanone | Concentration: 0.9298 UG/L

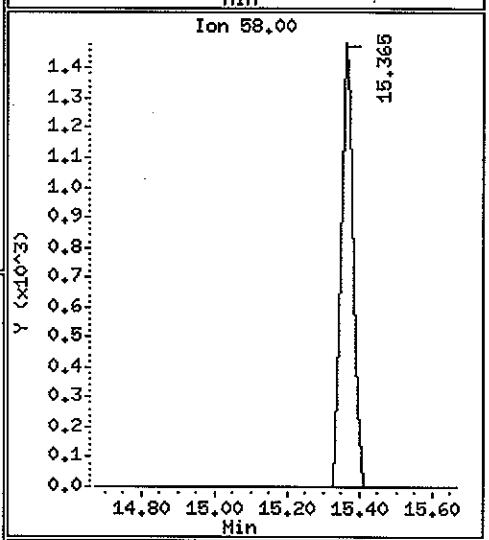


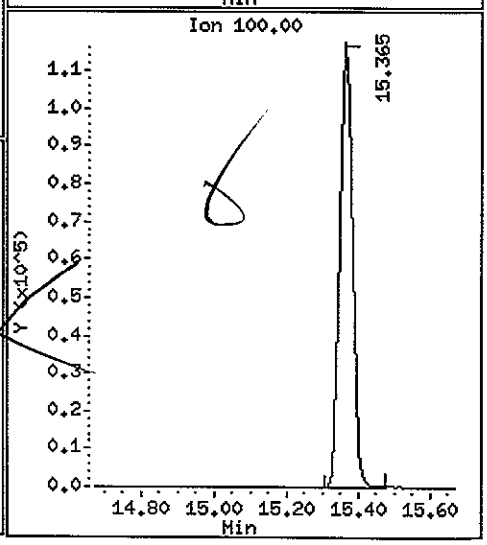












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Date : 29-NOV-2004 14:28

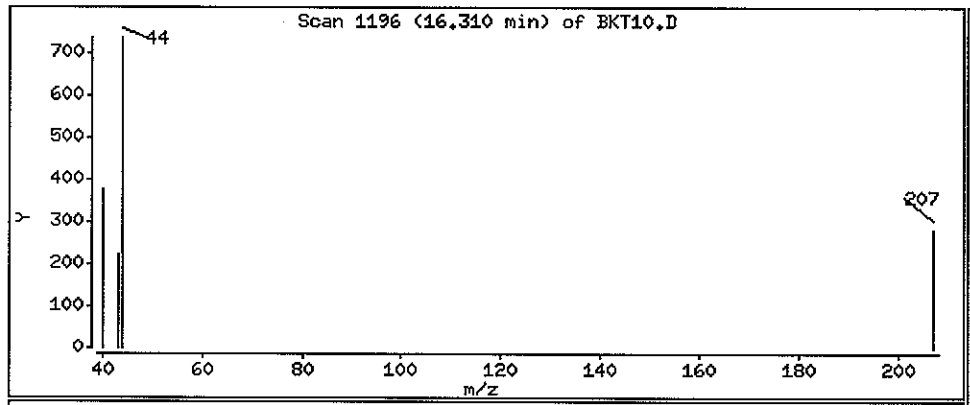
Client ID: DYNA P&T | Instrument: MSVOA02.i

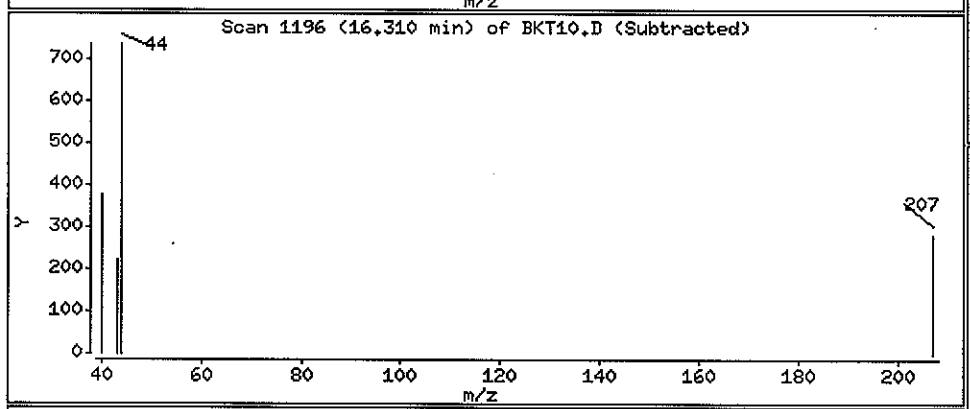
Sample Info: MSS,176248-003

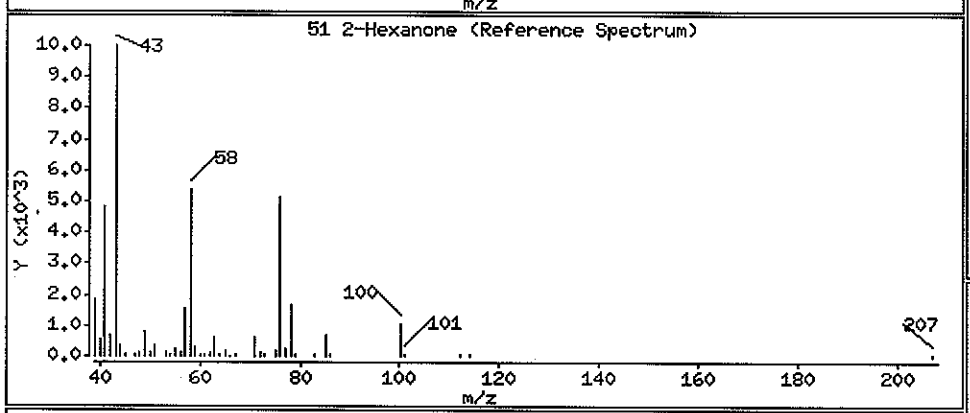
Purge Volume: 5.0 | Operator: AJA

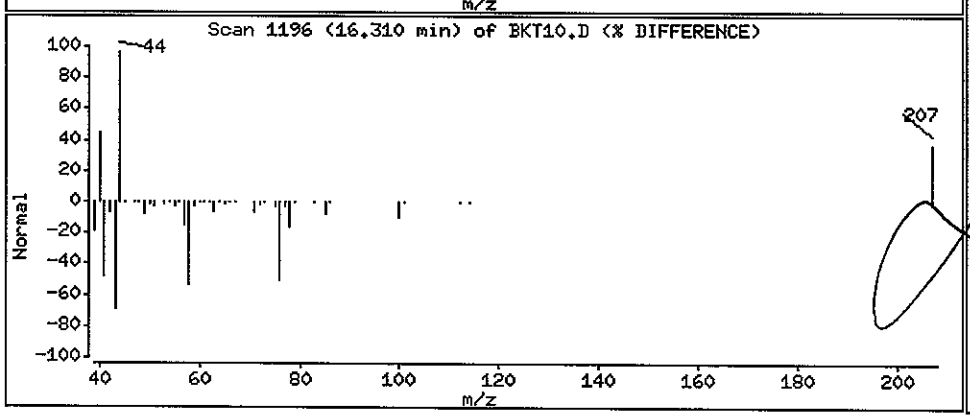
Column phase: RTx Volatiles | Column diameter: 0.32

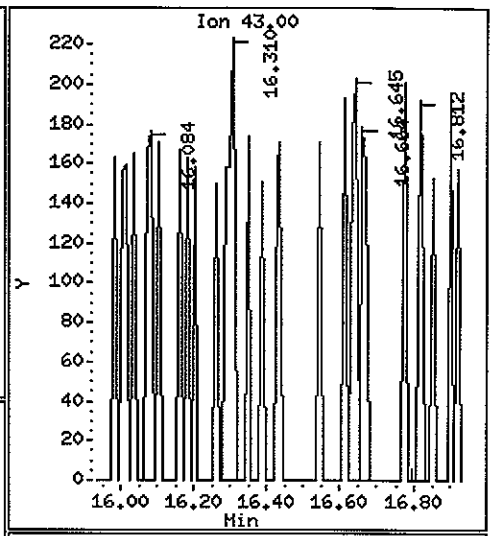
51 2-Hexanone | Concentration: 0.1596 UG/L

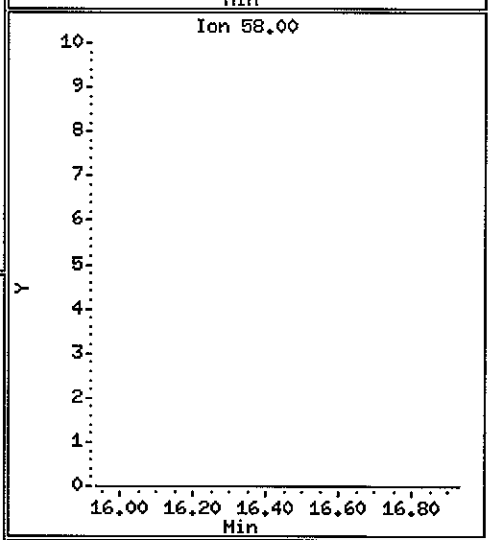


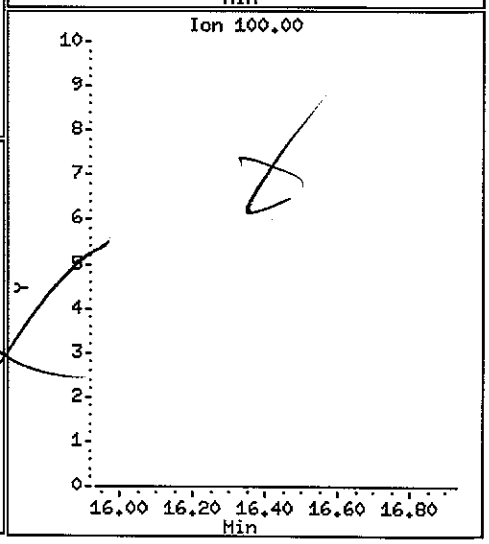












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Date : 29-NOV-2004 14:28

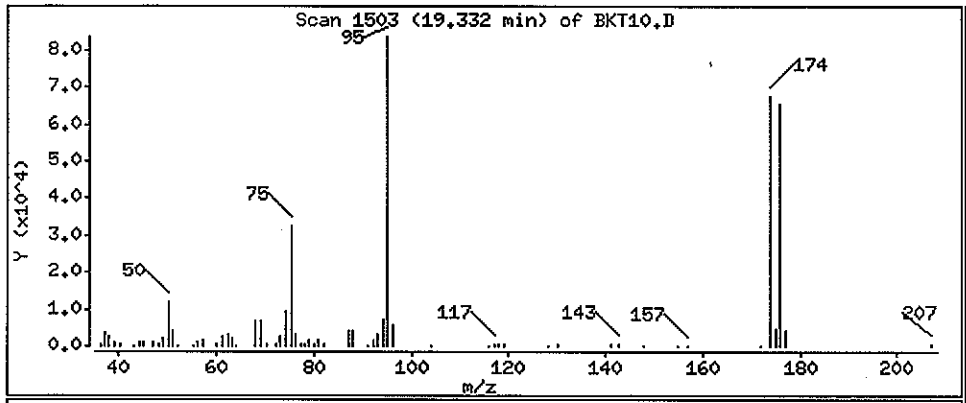
Client ID: DYNA P&T | Instrument: MSVOA02.i

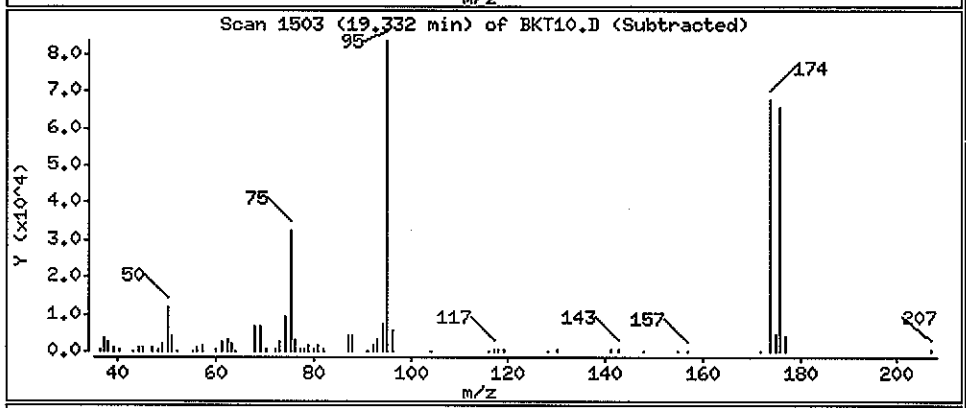
Sample Info: MSS,176248-003

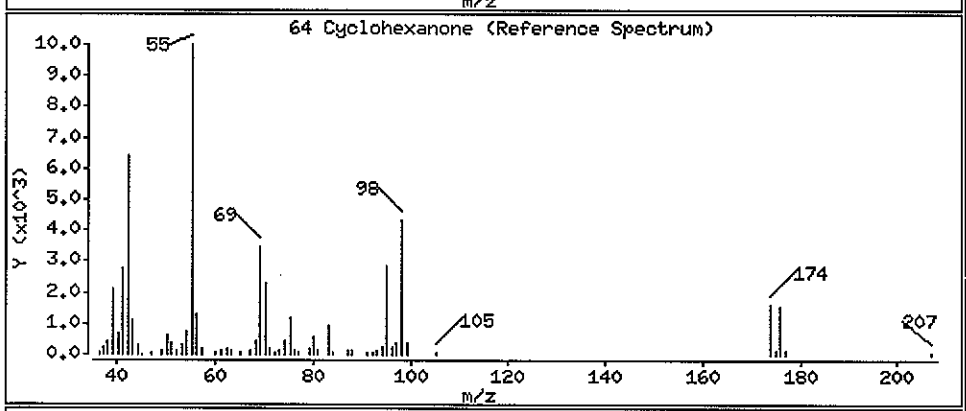
Purge Volume: 5.0 | Operator: AJA

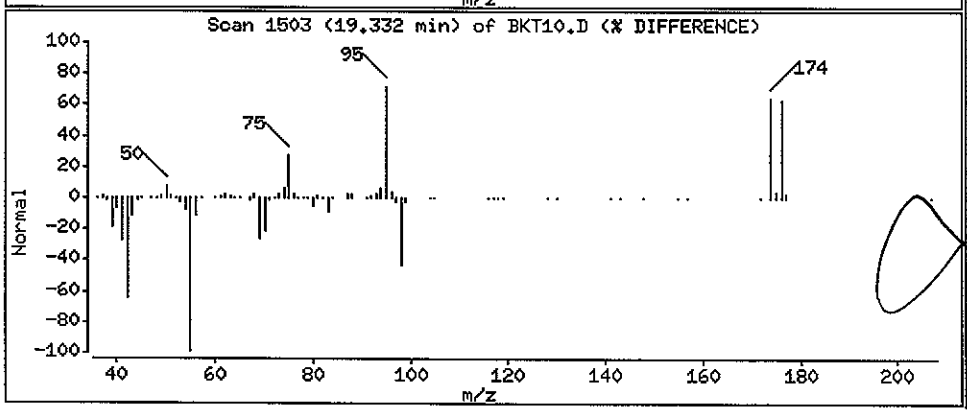
Column phase: RTx Volatiles | Column diameter: 0.32

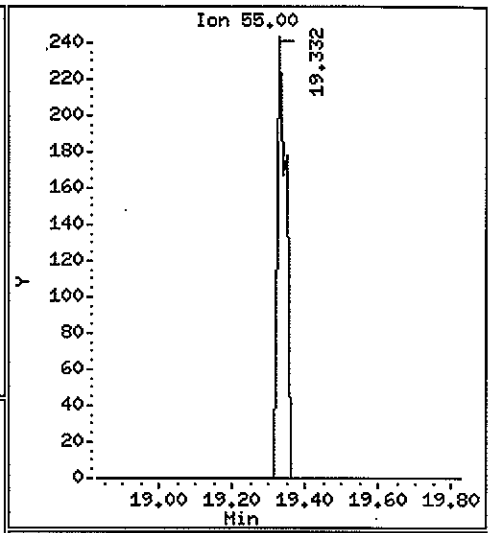
64 Cyclohexanone | Concentration: 2.6157 UG/L

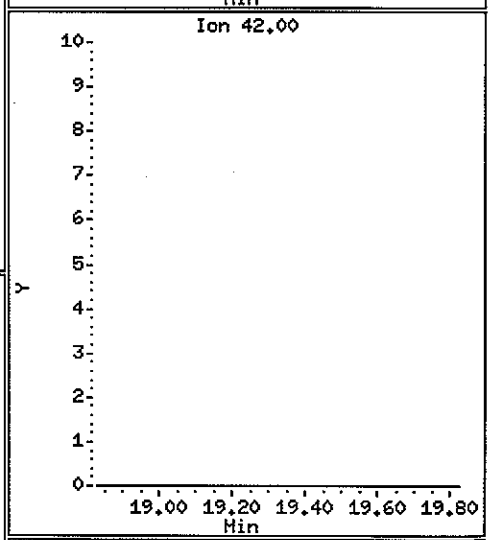


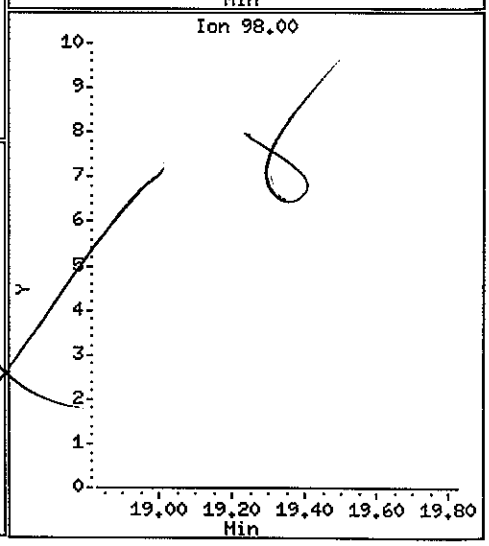












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT10.D

Date : 29-NOV-2004 14:28

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MSS,176248-003

Purge Volume: 5.0

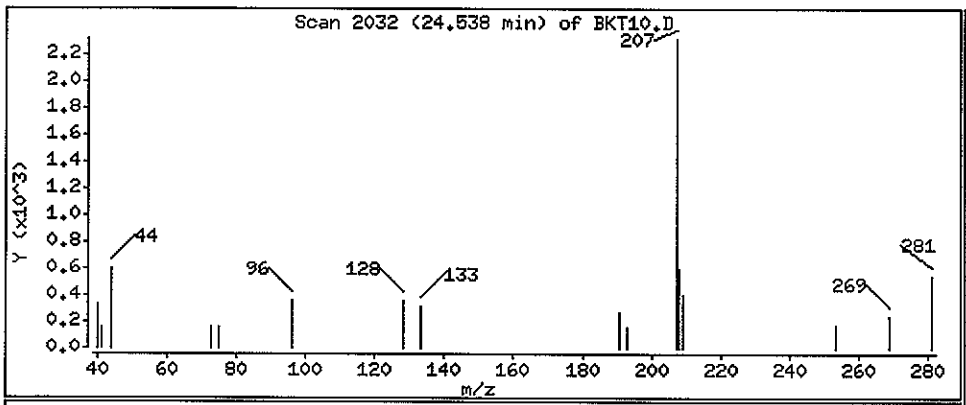
Operator: AJA

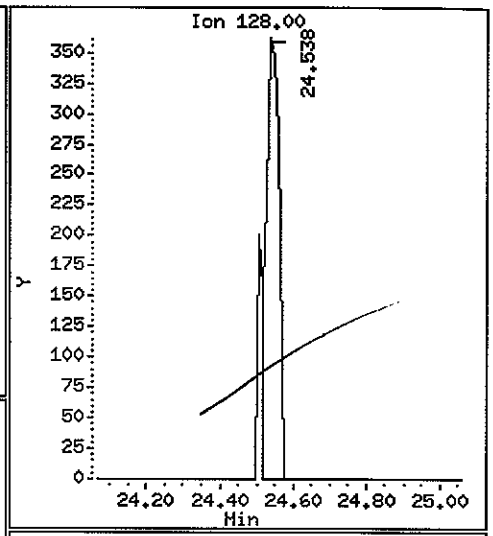
Column phase: RTx Volatiles

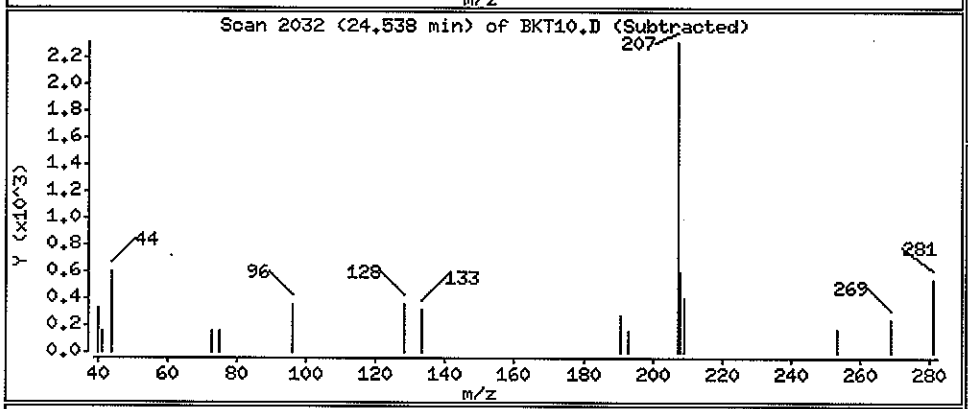
Column diameter: 0.32

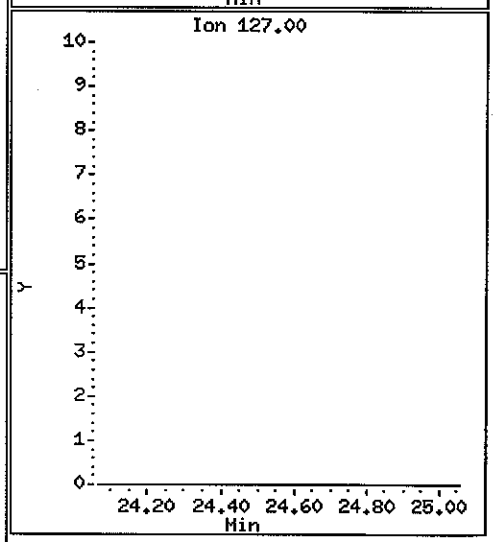
85 Naphthalene

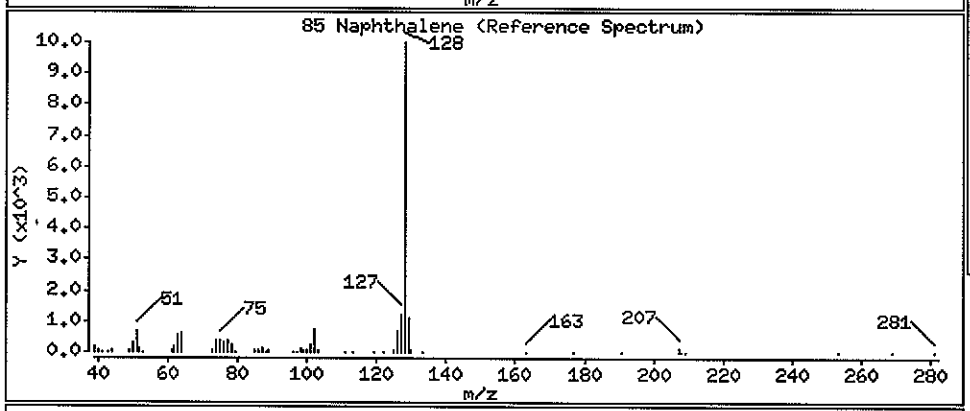
Concentration: 0.1242 UG/L

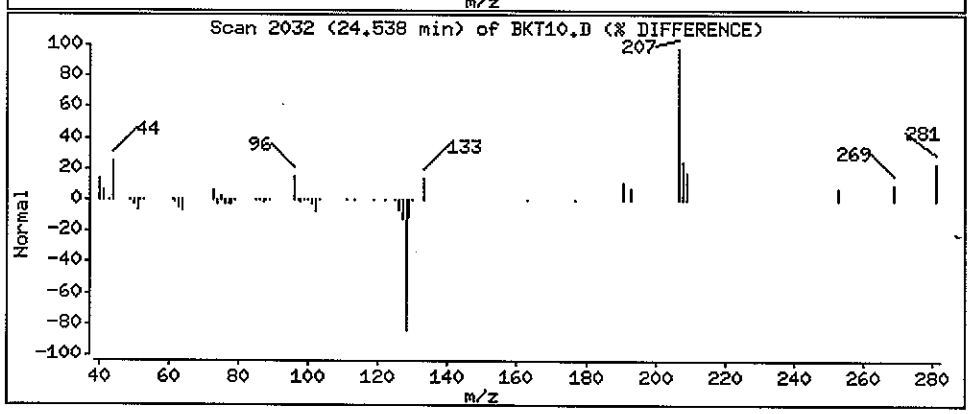












QC RAW DATA

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA02	Samplenum	: QC274068	Cident	:
Seqnum	: 414481618009	Matrix	: Soil	Acctnum	: QC
Filename	: bkt09	Batchnum	: 96931	Injected	: 29-NOV-2004 13:43
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
Calnum	: 414435400002	Caldate	: 28-OCT-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	Flags
1,1-Dichloroethene	ND		5.0	
Benzene	ND		5.0	
Trichloroethene	ND		5.0	
Toluene	ND		5.0	
Chlorobenzene	ND		5.0	
Freon 12	ND		5.0	!v-
Chloromethane	ND		5.0	
Vinyl Chloride	ND		5.0	
Bromomethane	ND		5.0	
Chloroethane	ND		5.0	
Trichlorofluoromethane	ND		5.0	
Acetone	2.7 J		10	
Freon 113	ND		5.0	
Methylene Chloride	0.50 J		10	
MTBE	ND		5.0	
Carbon Disulfide	ND		5.0	
trans-1,2-Dichloroethene	ND		5.0	
Vinyl Acetate	ND		10	
1,1-Dichloroethane	ND		5.0	
2-Butanone	ND		10	
cis-1,2-Dichloroethene	ND		5.0	
2,2-Dichloropropane	ND		5.0	
Chloroform	ND		5.0	
Bromochloromethane	ND		5.0	
1,1,1-Trichloroethane	ND		5.0	
1,1-Dichloropropene	~~6.1~~ ND	-0.316	5.0	x
Carbon Tetrachloride	~~8.9~~	-0.287	5.0	x
1,2-Dichloroethane	ND		5.0	
1,2-Dichloropropane	ND		5.0	
Bromodichloromethane	ND		5.0	
Dibromomethane	ND		5.0	
4-Methyl-2-Pentanone	ND		10	
Tetramethyl THF	ND		5.0	
cis-1,3-Dichloropropene	ND		5.0	
trans-1,3-Dichloropropene	ND		5.0	
1,1,2-Trichloroethane	ND		5.0	
2-Hexanone	ND		10	
1,3-Dichloropropane	ND		5.0	
Tetrachloroethene	ND		5.0	
Dibromochloromethane	ND		5.0	
1,2-Dibromoethane	ND		5.0	
1,1,1,2-Tetrachloroethane	ND		5.0	
Ethylbenzene	ND		5.0	
m,p-Xylenes	ND		5.0	
o-Xylene	ND		5.0	

!=calc err +=high bias -=low bias b=noncompliant c=CCV v=ICV x=false positive

BLANK USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid	: MSVOA02	Samplenum	: QC274068	Cident	:
Seqnum	: 414481618009	Matrix	: Soil	Acctnum	: QC
Filename	: bkt09	Batchnum	: 96931	Injected	: 29-NOV-2004 13:43
IDF	: 1.0	PDF	: 1.0	Units	: ug/Kg
Calnum	: 414435400002	Caldate	: 28-OCT-2004	Caltype	: SOIL

Analyte	Result	RTS	RL	Flags
Styrene	ND		5.0	
Bromoform	ND		5.0	
Isopropylbenzene	ND		5.0	
1,1,2,2-Tetrachloroethane	ND		5.0	
1,2,3-Trichloropropane	ND		5.0	
Propylbenzene	ND		5.0	
Bromobenzene	ND		5.0	
1,3,5-Trimethylbenzene	ND		5.0	
2-Chlorotoluene	ND		5.0	
4-Chlorotoluene	ND		5.0	
tert-Butylbenzene	ND		5.0	
1,2,4-Trimethylbenzene	ND		5.0	
sec-Butylbenzene	ND		5.0	
para-Isopropyl Toluene	ND		5.0	
1,3-Dichlorobenzene	ND		5.0	
1,4-Dichlorobenzene	ND		5.0	
n-Butylbenzene	ND		5.0	
1,2-Dichlorobenzene	ND		5.0	
1,2-Dibromo-3-Chloropropane	ND		5.0	
1,2,4-Trichlorobenzene	ND		5.0	
Hexachlorobutadiene	ND		5.0	
Naphthalene	ND		5.0	
1,2,3-Trichlorobenzene	ND		5.0	
tert-Butyl Alcohol (TBA)	ND		100	
Isopropyl Ether (DIPE)	ND		5.0	
Ethyl tert-Butyl Ether (ETBE	ND		5.0	
Methyl tert-Amyl Ether (TAME	ND		5.0	
Isopropanol	ND		100	
Ethanol	ND		1000	!
Cyclohexanone.....	~~2.2 J~~ ND		100	c+ v- b*
Tetrahydrofuran.....	~~2.0 J~~		100	

Analyte	Spike Conc	Result	%Rec	Lim%Rec	Flags
Dibromofluoromethane	50.00	49.86	100	79-120	
1,2-Dichloroethane-d4	50.00	50.72	101	80-120	
Toluene-d8	50.00	49.65	99	80-120	
Bromofluorobenzene	50.00	47.51	95	80-121	
Trifluorotoluene	NS	ND	--	60-140	

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	347823	-3.89	11.86	11.82	-0.04
1,4-Difluorobenzene	521847	500970	-4.00	13.09	13.06	-0.03
Chlorobenzene-d5	489940	470156	-4.04	17.64	17.62	-0.02
1,4-Dichlorobenzene-d4	259088	257705	-0.53	21.02	21.00	-0.02

11/29/04

!=calc err +=high bias -=low bias b=noncompliant c=CCV v=ICV x=false positive

4/30/05

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D
Report Date: 29-Nov-2004 15:05

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 13:43 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : MB,QC274068
Misc Info : 96931,5.0/5
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\826GOX02.m
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
4 Bromomethane	94	6.470	6.481	(0.547)	357	0.13188	0.1318
7 Ethanol	45	7.474	7.505	(0.632)	300	4.94749	4.9474
9 1,1-Dichloroethene	96	7.927	8.154	(0.670)	287	0.10581	0.1058
10 Acetone	43	8.272	8.302	(0.700)	3209	2.67184	2.6718
13 Methylene Chloride	84	9.039	9.060	(0.764)	1973	0.50033	0.5003
21 2-Butanone	43	11.106	11.137	(0.939)	1090	0.62115	0.6211
25 Tetrahydrofuran	42	11.539	11.560	(0.976)	2038	1.99150	1.9915
* 27 Pentafluorobenzene	168	11.825	11.855	(1.000)	347823	50.0000	
$ 28 Dibromofluoromethane	113	11.854	11.885	(1.002)	154320	49.8648	49.8647
30 Carbon Tetrachloride	117	11.825	12.140	(0.906)	28179	8.91430	8.9143
31 1,1-Dichloropropene	75	11.825	12.170	(0.906)	21416	6.09075	6.0907
$ 32 1,2-Dichloroethane-d4	65	12.474	12.495	(0.956)	130533	50.7154	50.7154
* 36 1,4-Difluorobenzene	114	13.055	13.085	(1.000)	500970	50.0000	
44 4-Methyl-2-Pentanone	43	15.151	15.172	(1.161)	372	0.10959	0.1095
$ 45 Toluene-d8	98	15.368	15.388	(1.177)	515995	49.6455	49.6455
51 2-Hexanone	43	16.421	16.432	(0.932)	401	0.15967	0.1596

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D
Report Date: 29-Nov-2004 15:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
* 55 Chlorobenzene-d5	117	17.622	17.642	(1.000)	470156	50.0000	
64 Cyclohexanone	55	19.315	19.325	(0.920)	454	2.17290	2.1728
$ 65 Bromofluorobenzene	95	19.335	19.355	(0.921)	237764	47.5058	47.5057
* 78 1,4-Dichlorobenzene-d4	152	20.998	21.018	(1.000)	257705	50.0000	
83 1,2,4-Trichlorobenzene	180	24.049	24.070	(1.145)	526	0.12239	0.1223
85 Naphthalene	128	24.531	24.562	(1.168)	1831	0.19651	0.1965

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D
Report Date: 29-Nov-2004 15:05

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 13:43 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : MB,QC274068
Misc Info : 96931,5.0/5
Comment :
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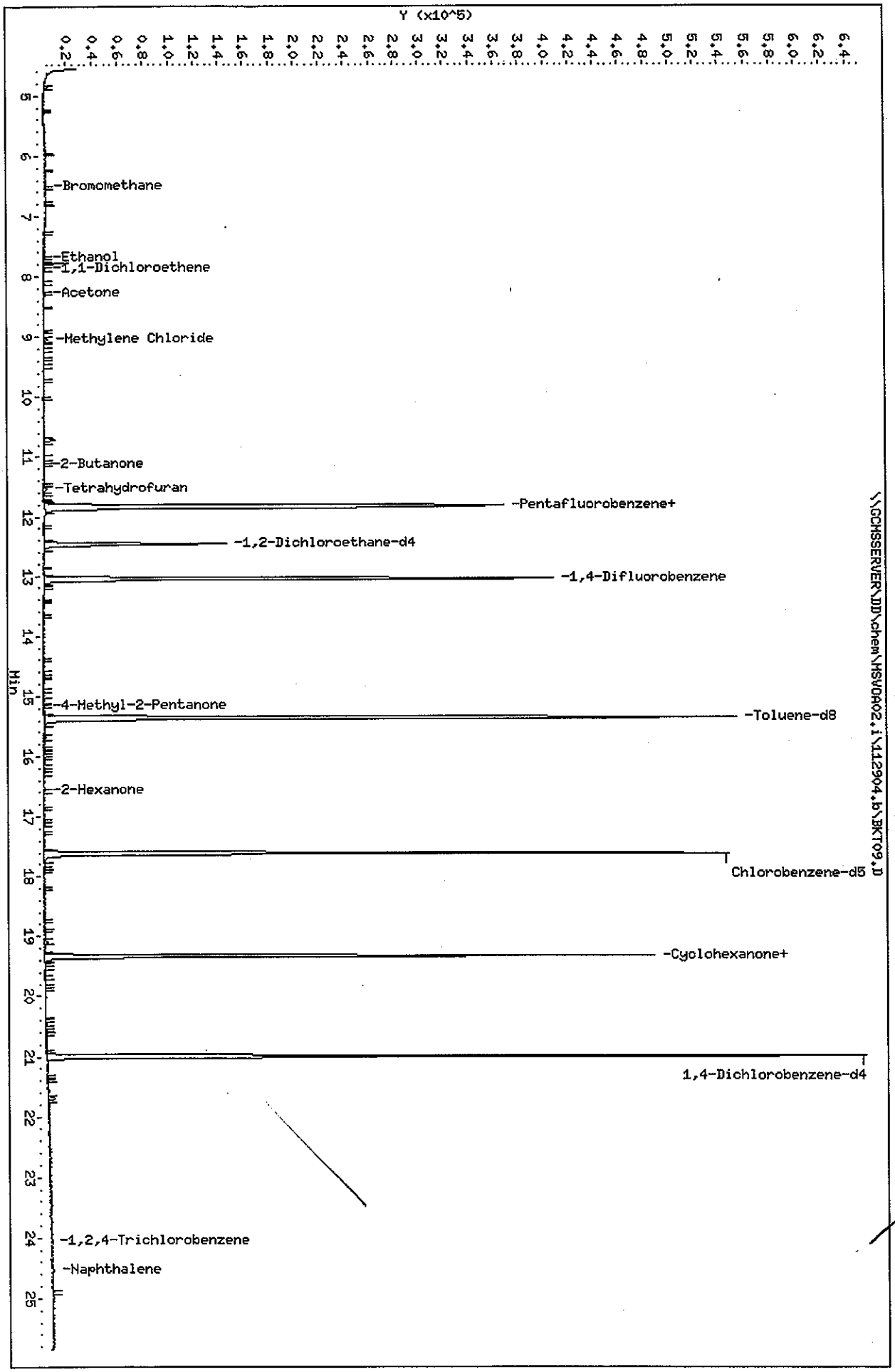
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D
Date : 29-NOV-2004 13:43
Client ID: DYNA P&T
Sample Info: MB,QC274068
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA02.i
Operator: AJA
Column diameter: 0.32



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Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

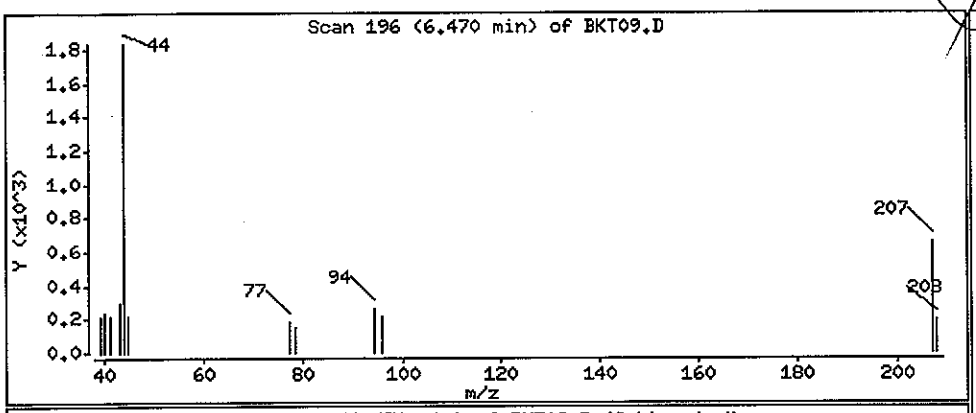
Operator: AJA

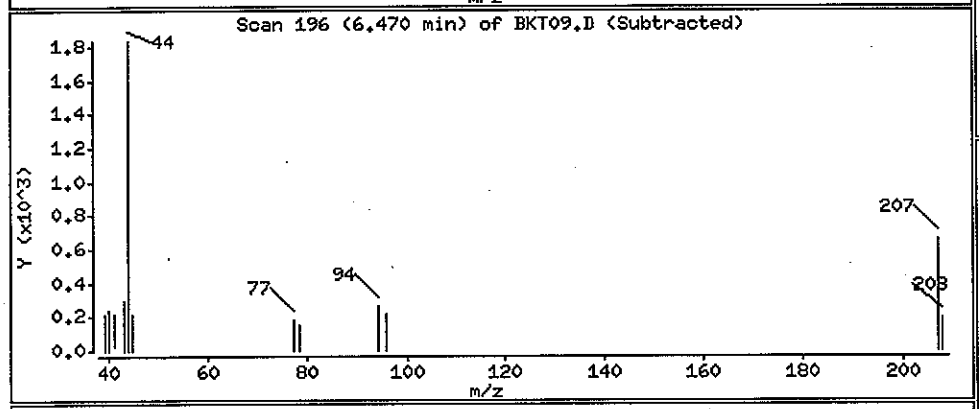
Column phase: RTx Volatiles

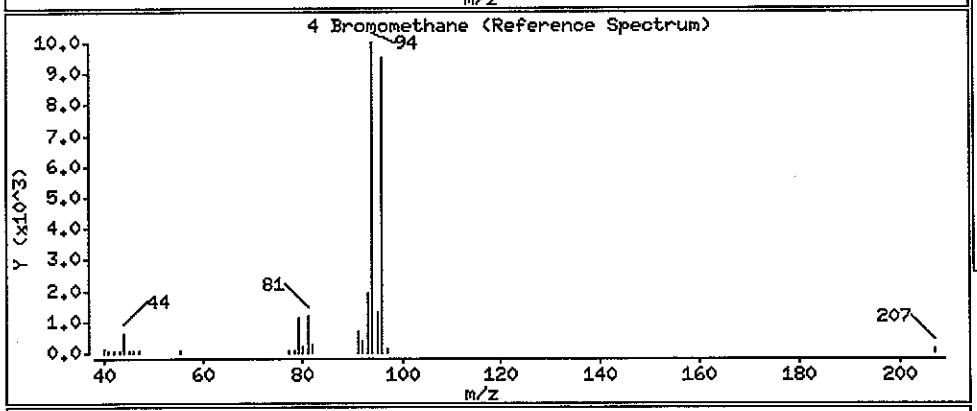
Column diameter: 0.32

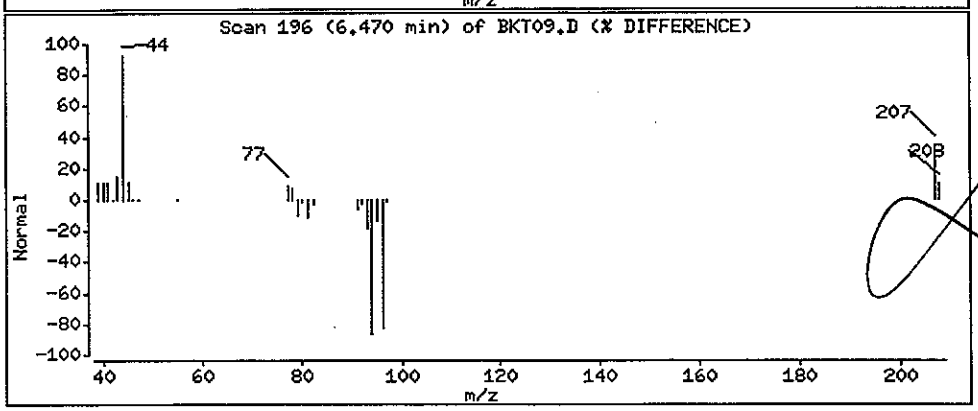
4 Bromomethane

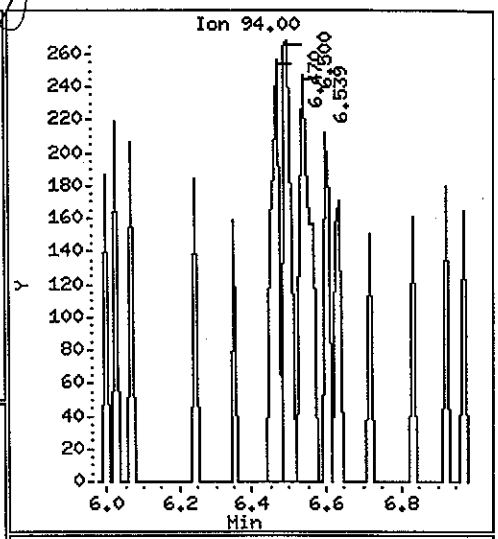
Concentration: 0.1318 UG/L

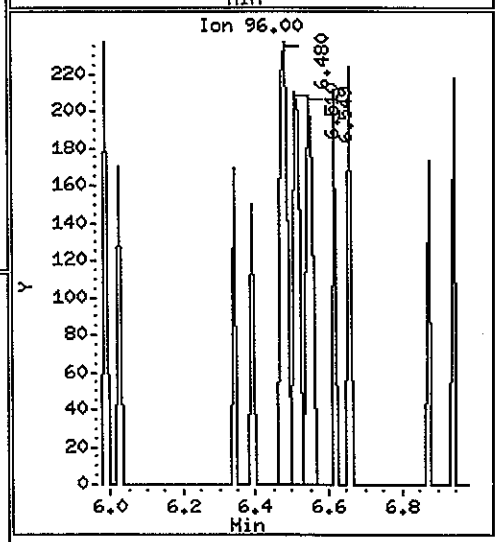












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Date : 29-NOV-2004 13:43

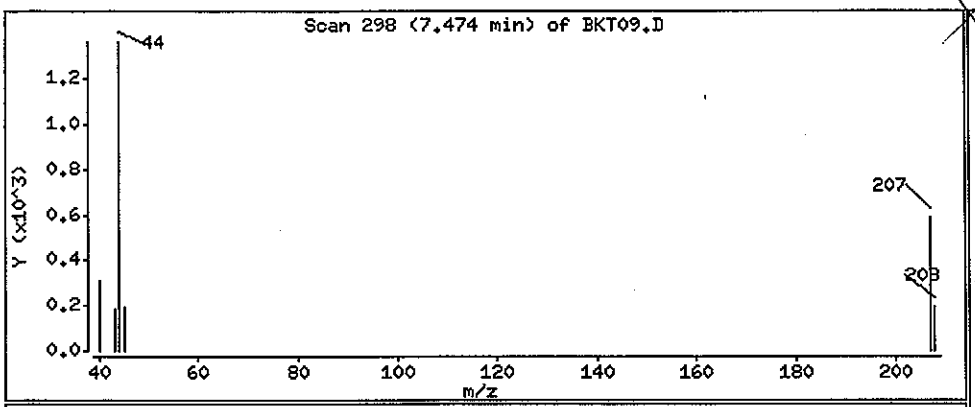
Client ID: DYNA P&T | Instrument: MSVOA02.i

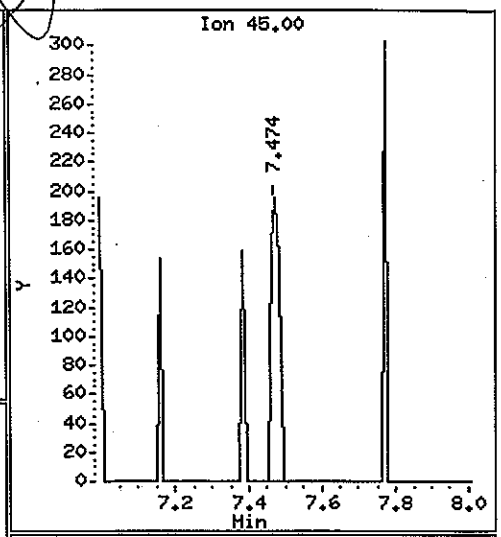
Sample Info: MB,QC274068

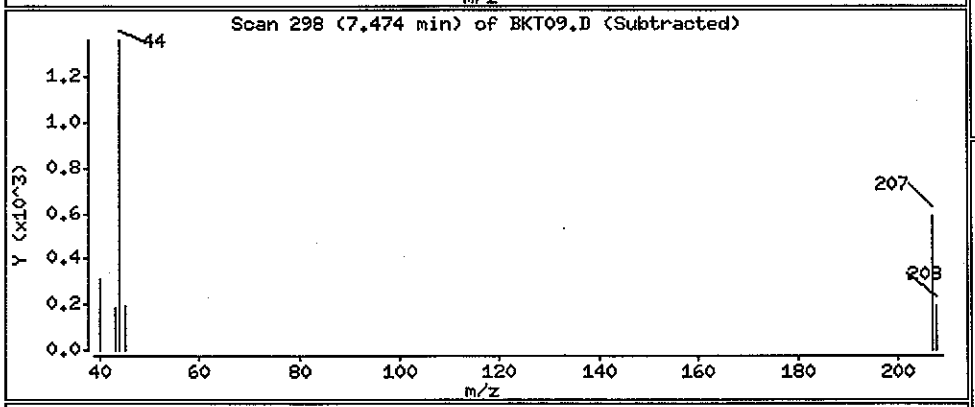
Purge Volume: 5.0 | Operator: AJA

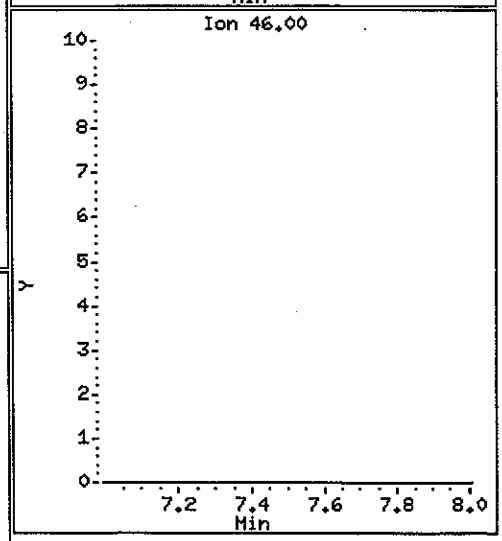
Column phase: RTx Volatiles | Column diameter: 0.32

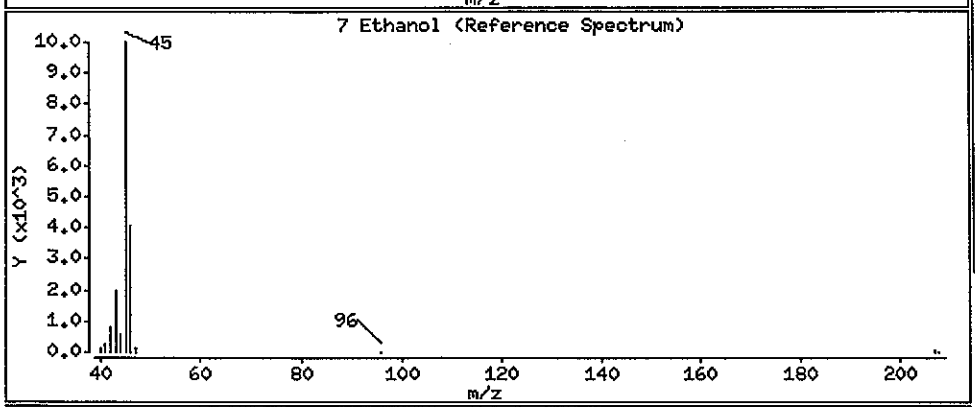
7 Ethanol | Concentration: 4.9474 UG/L

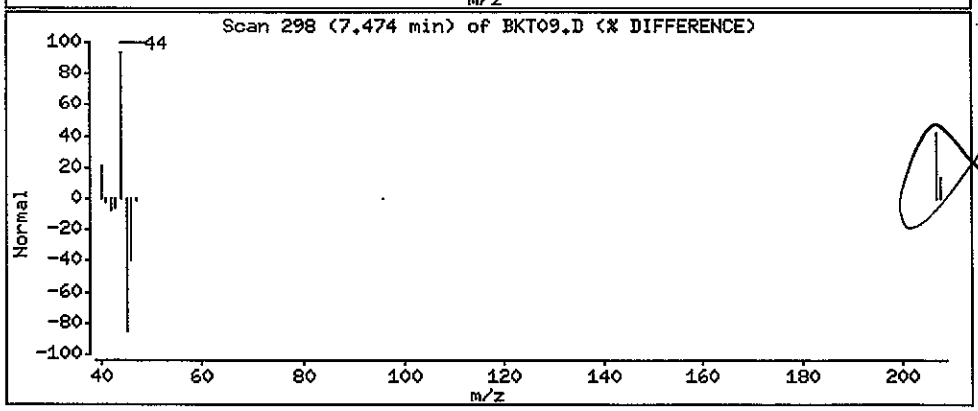












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Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

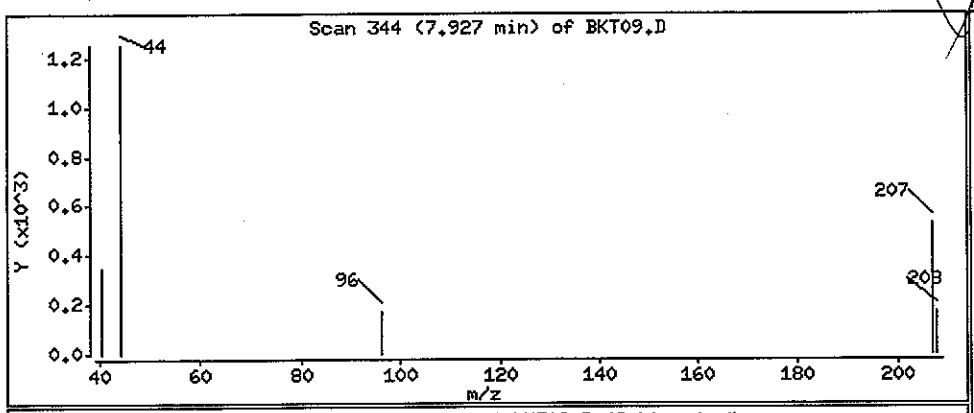
Operator: AJA

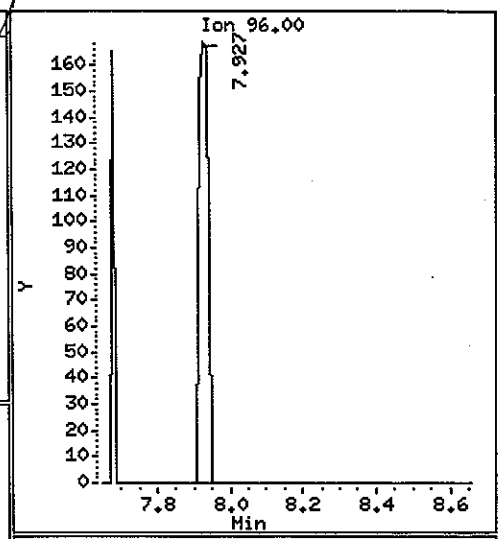
Column phase: RTx Volatiles

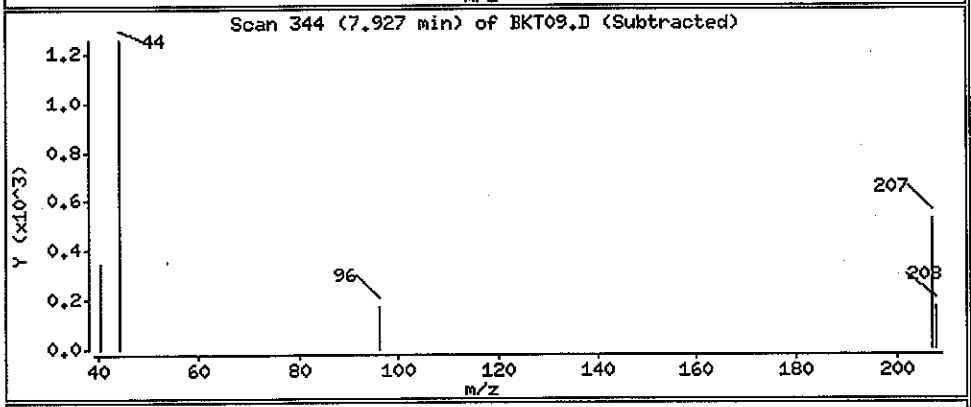
Column diameter: 0.32

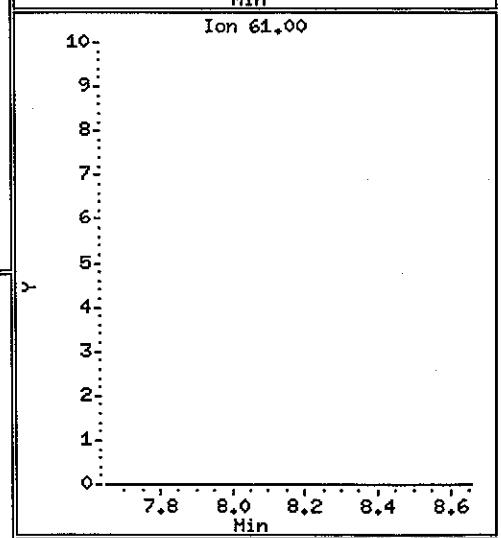
9 1,1-Dichloroethene

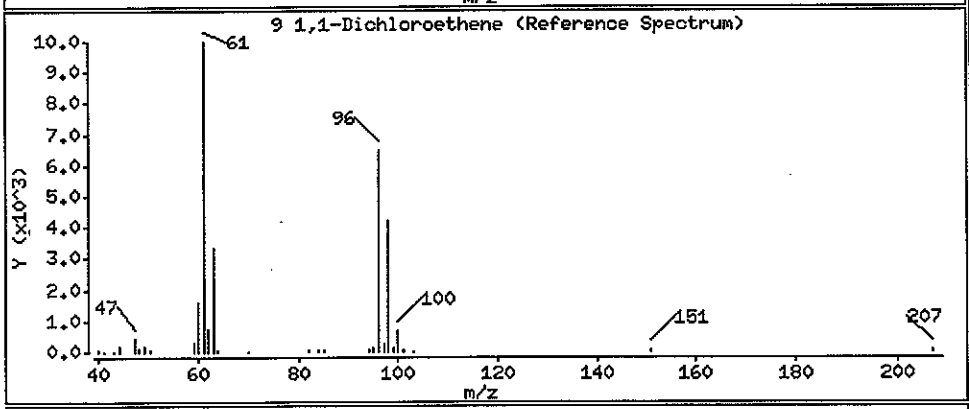
Concentration: 0.1058 UG/L

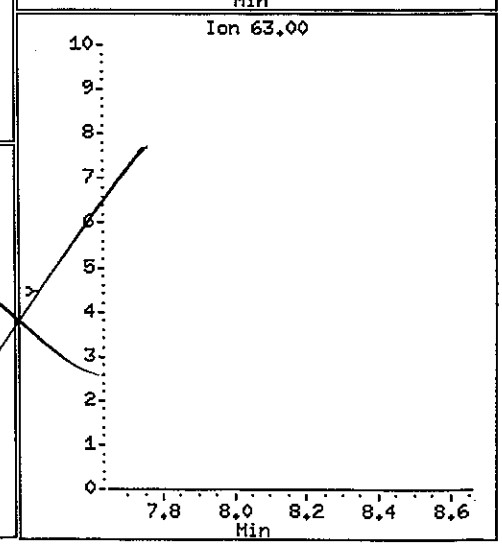


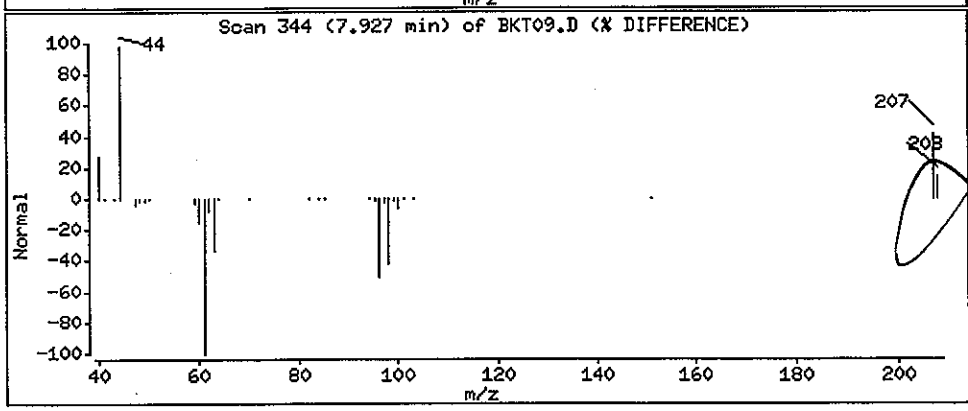












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Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

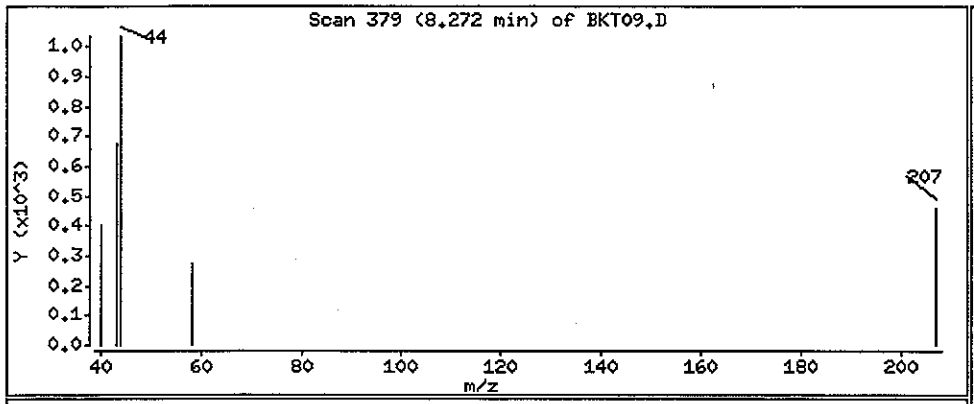
Operator: AJA

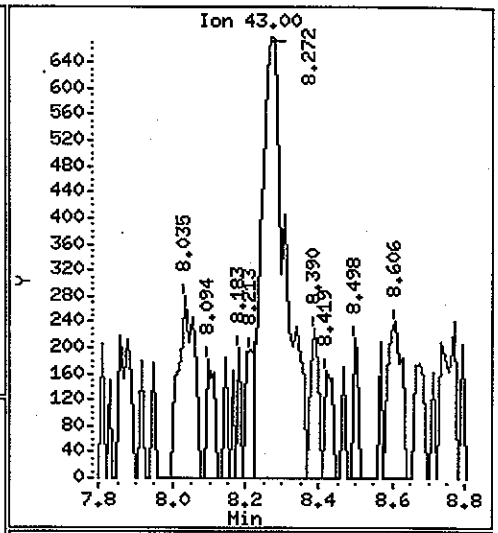
Column phase: RTx Volatiles

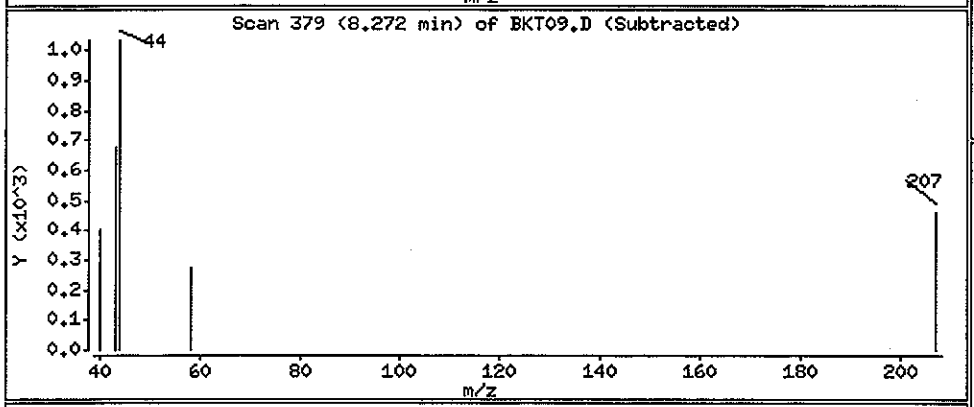
Column diameter: 0.32

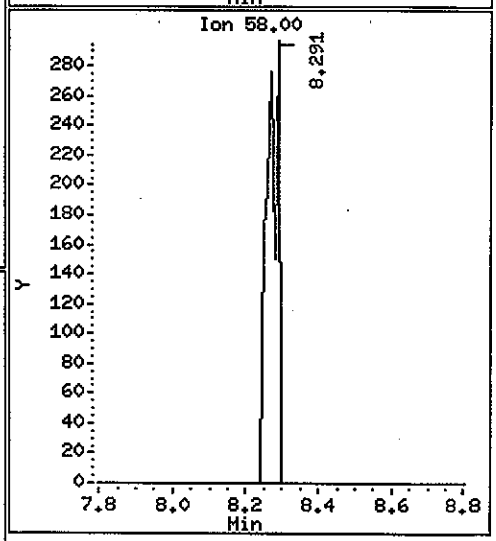
10 Acetone

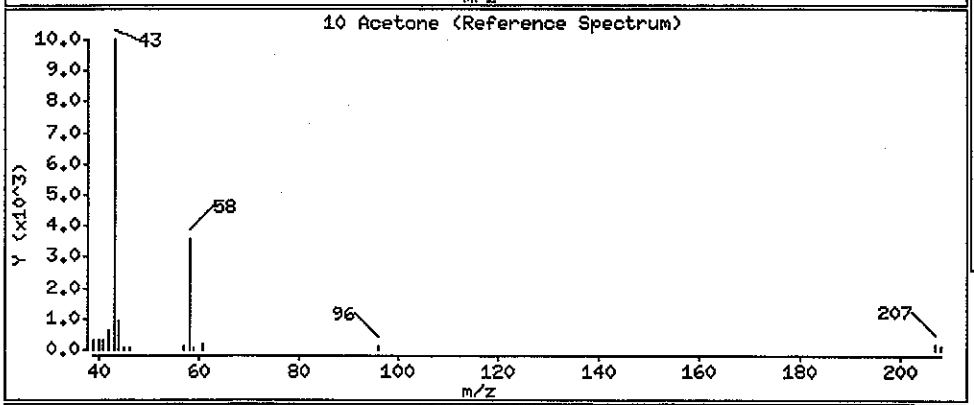
Concentration: 2.6718 UG/L

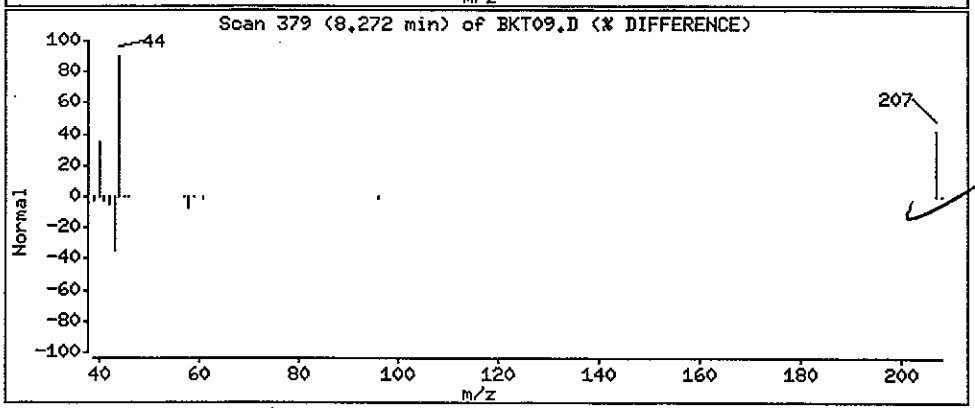












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Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

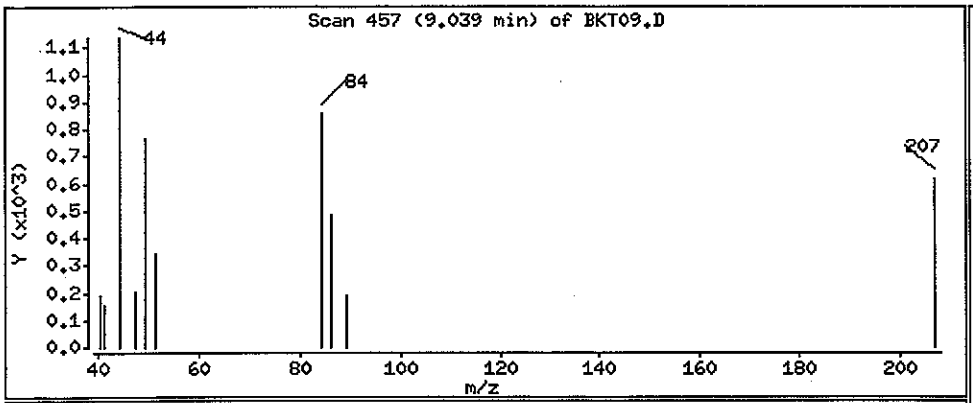
Operator: AJA

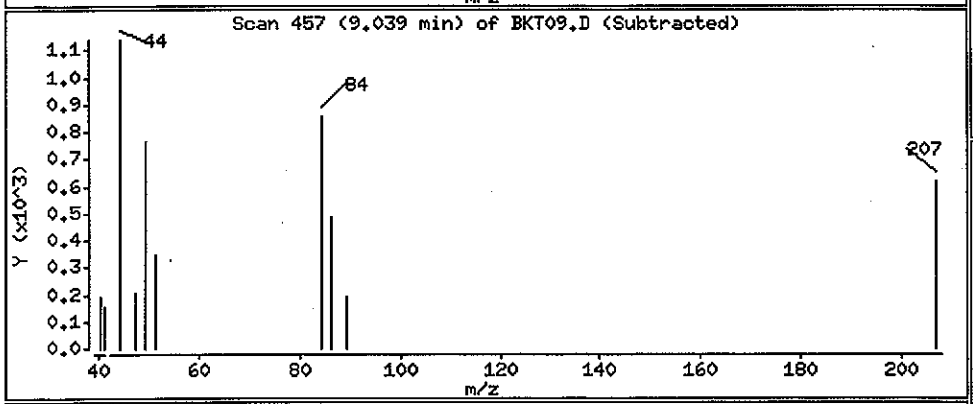
Column phase: RTx Volatiles

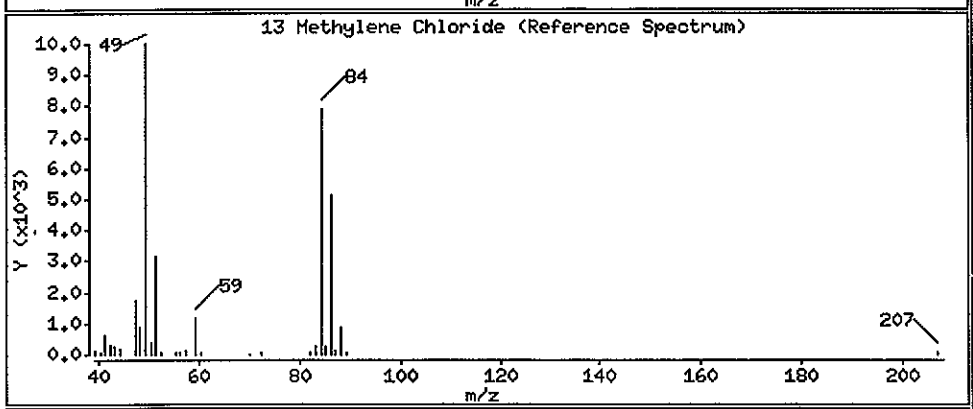
Column diameter: 0.32

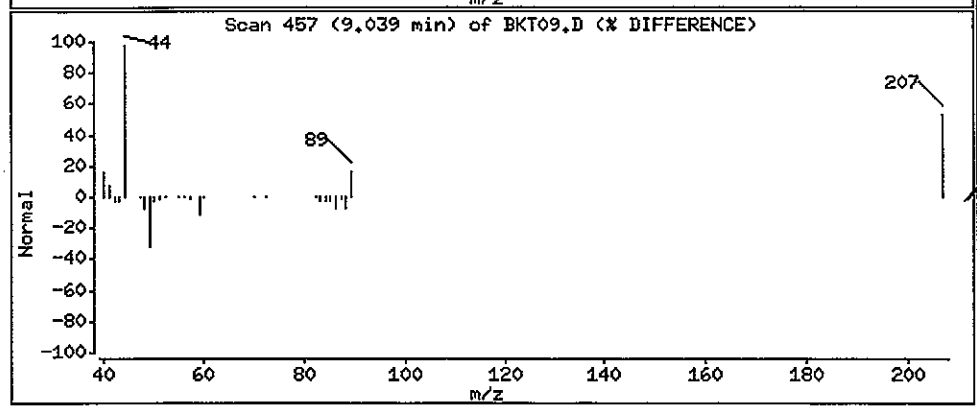
13 Methylene Chloride

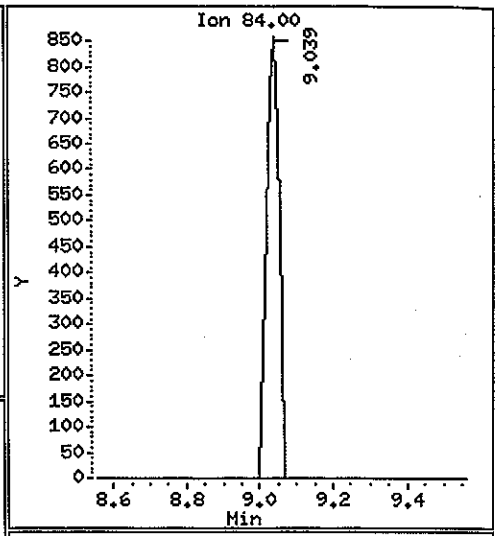
Concentration: 0.5003 UG/L

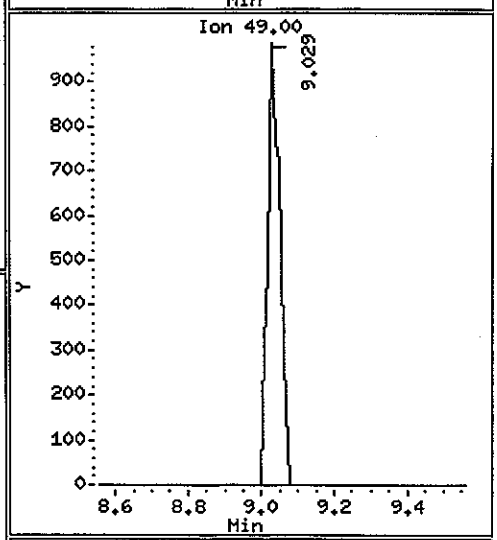


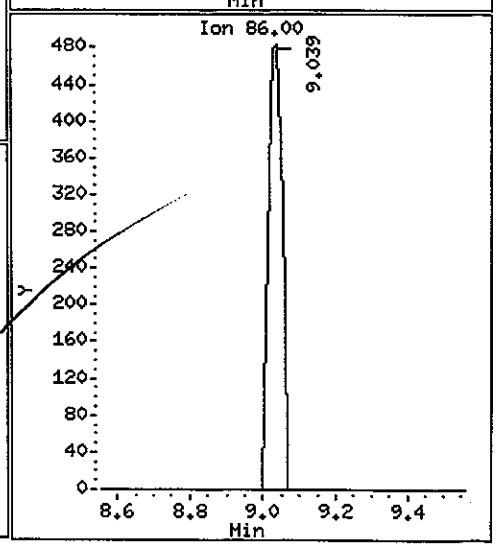












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Date : 29-NOV-2004 13:43

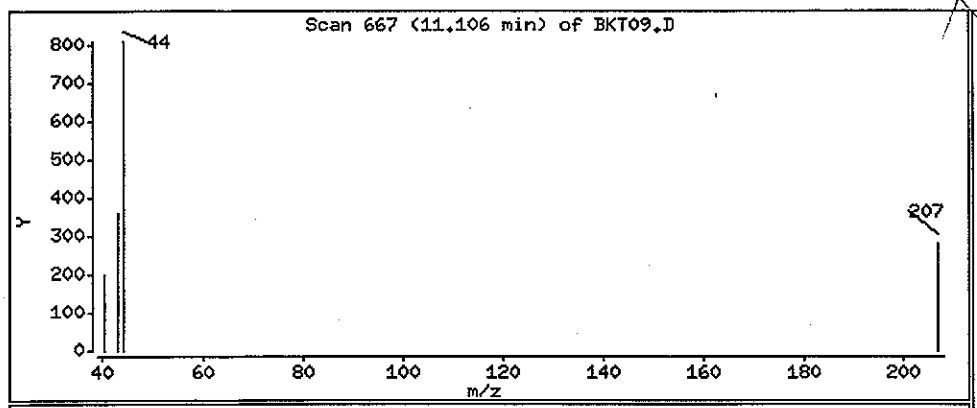
Client ID: DYNA P&T | Instrument: MSVOA02.i

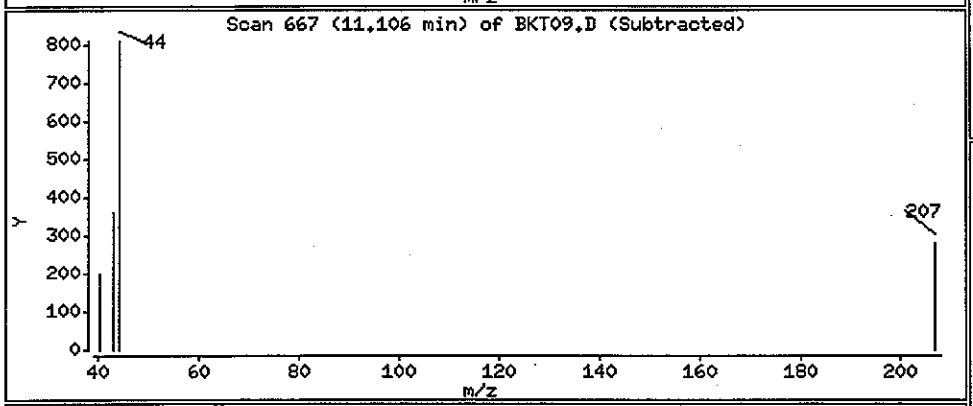
Sample Info: MB,QC274068

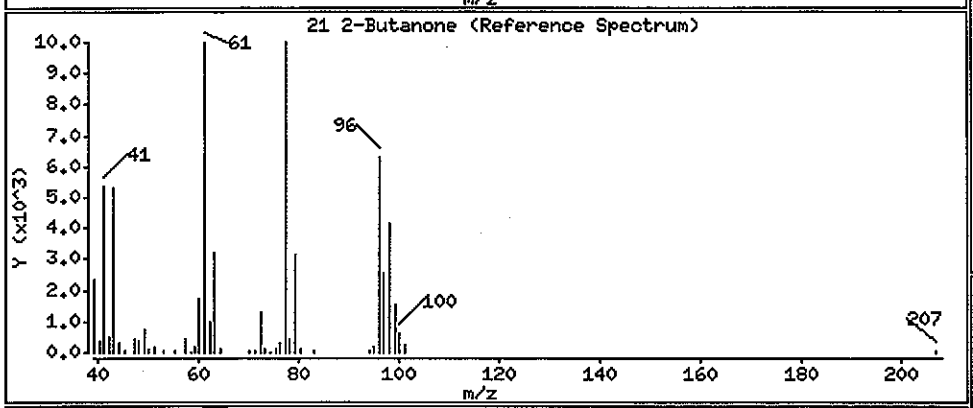
Purge Volume: 5.0 | Operator: AJA

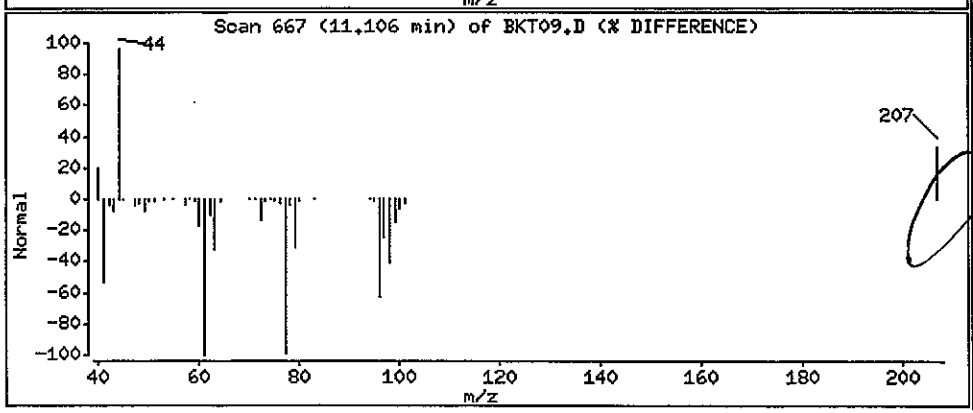
Column phase: RTx Volatiles | Column diameter: 0.32

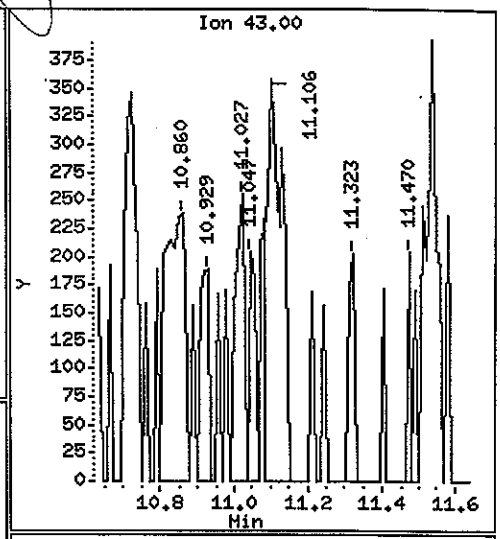
21 2-Butanone | Concentration: 0.6211 UG/L

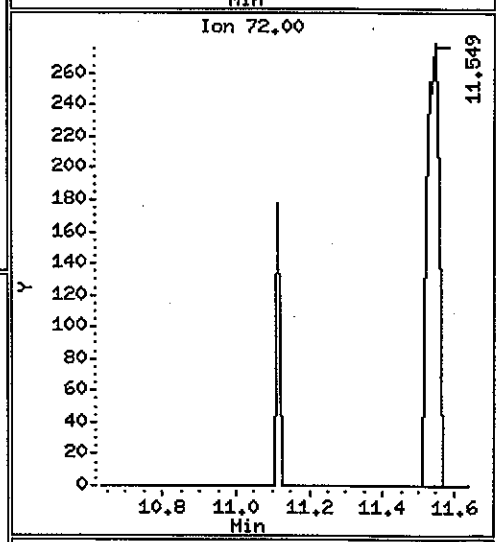


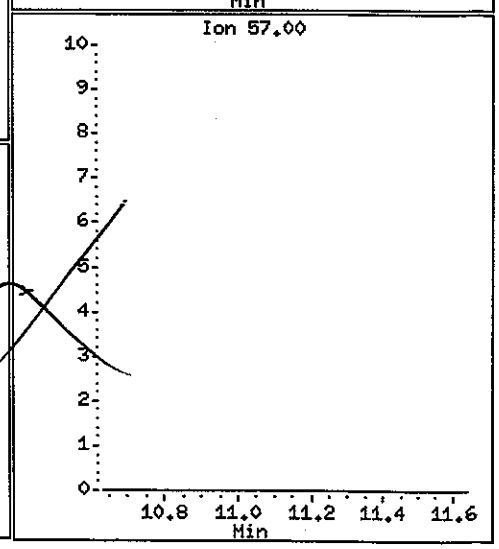












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Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

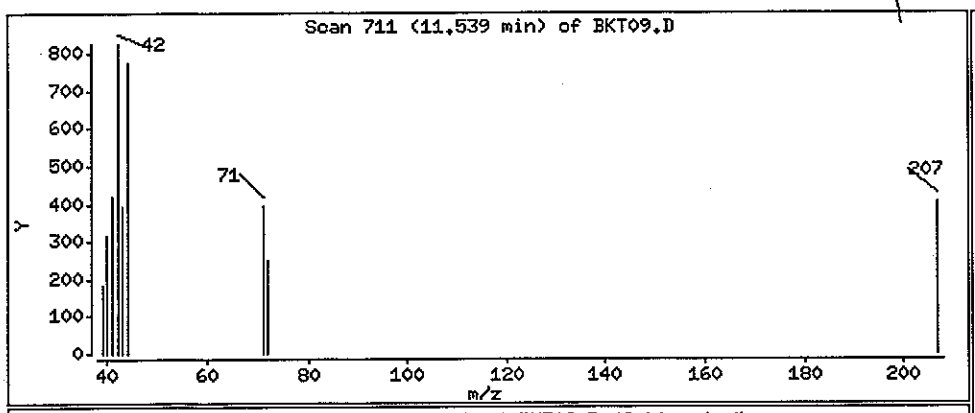
Operator: AJA

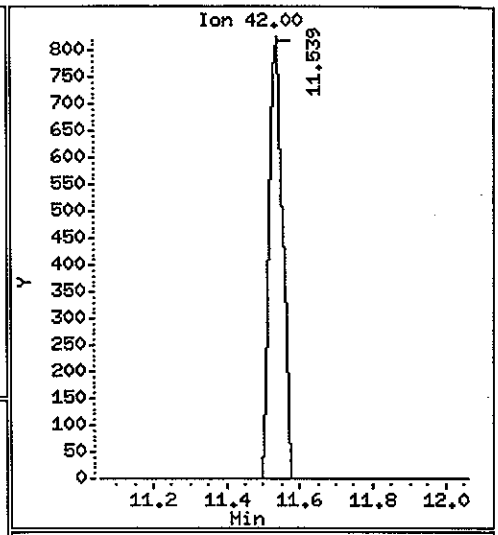
Column phase: RTx Volatiles

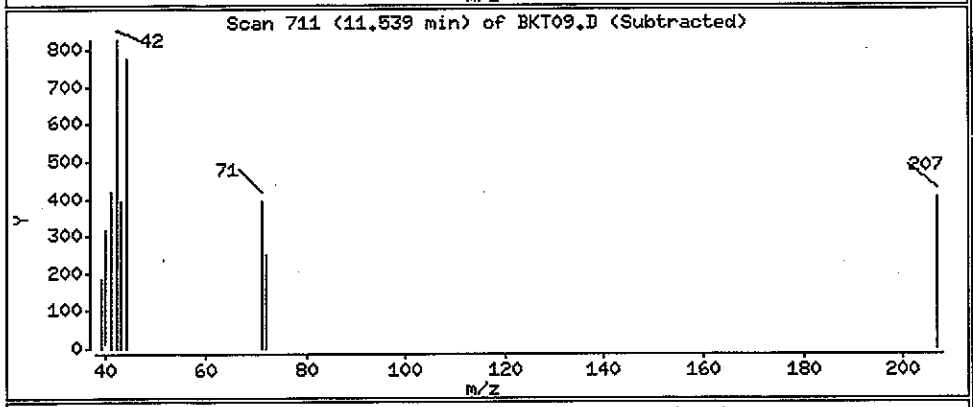
Column diameter: 0.32

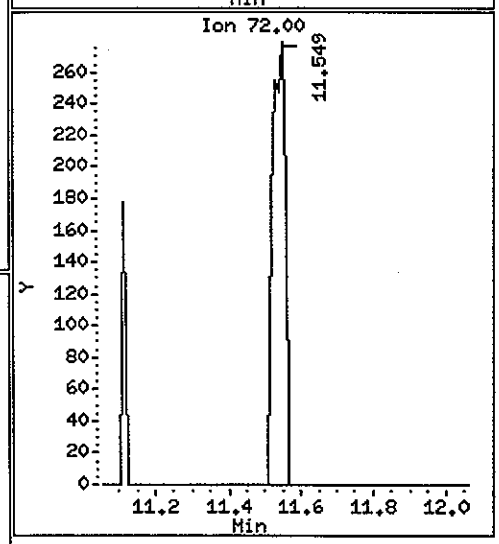
25 Tetrahydrofuran

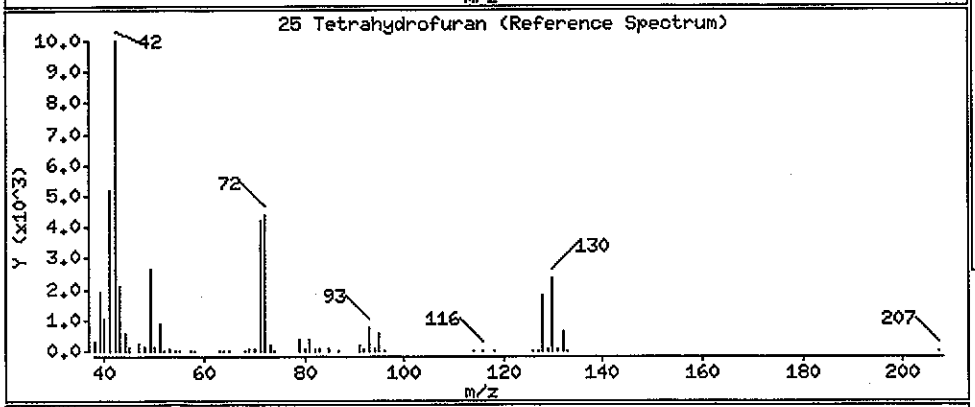
Concentration: 1.9915 UG/L

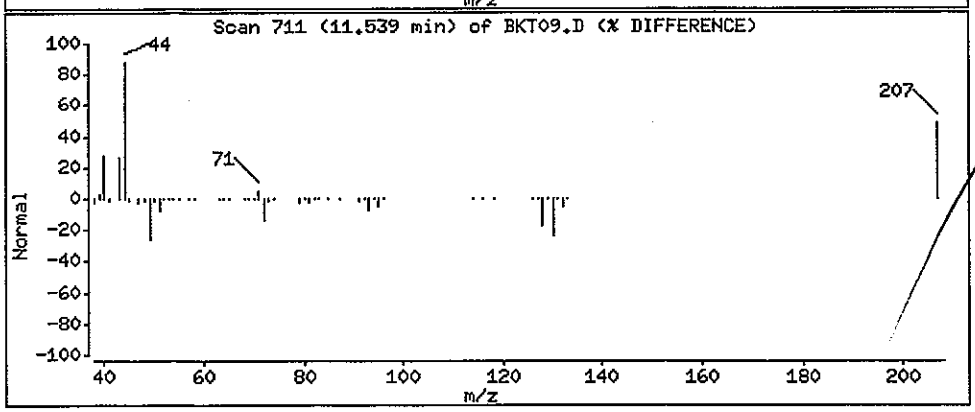












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Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

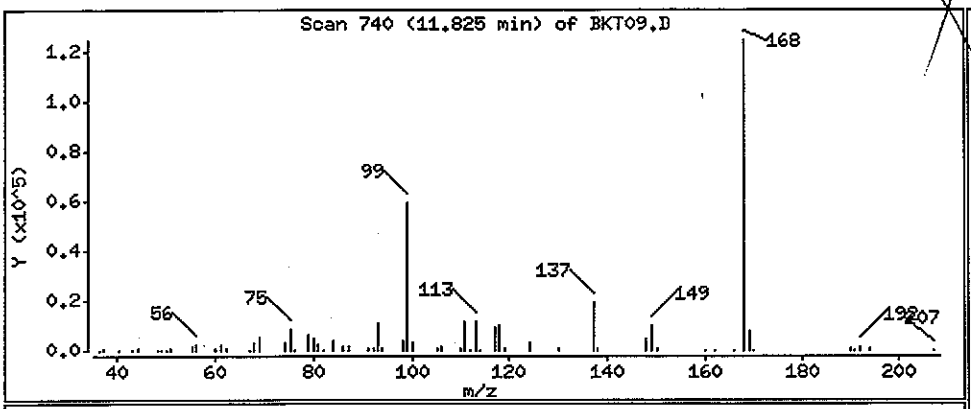
Operator: AJA

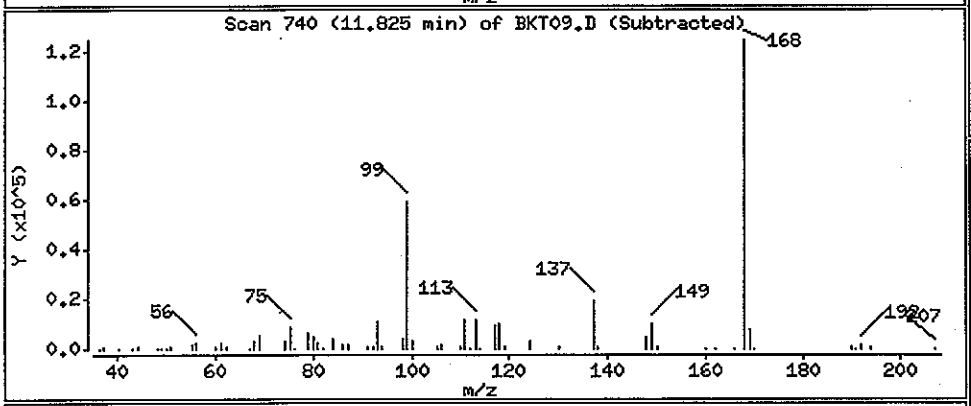
Column phase: RTx Volatiles

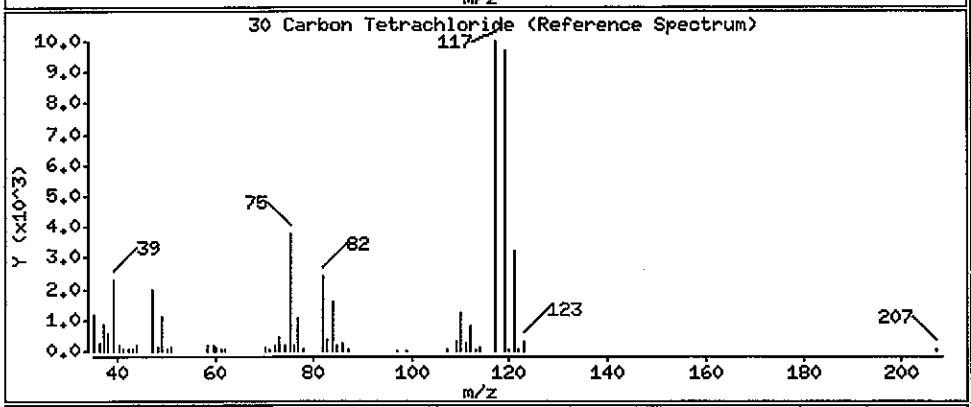
Column diameter: 0.32

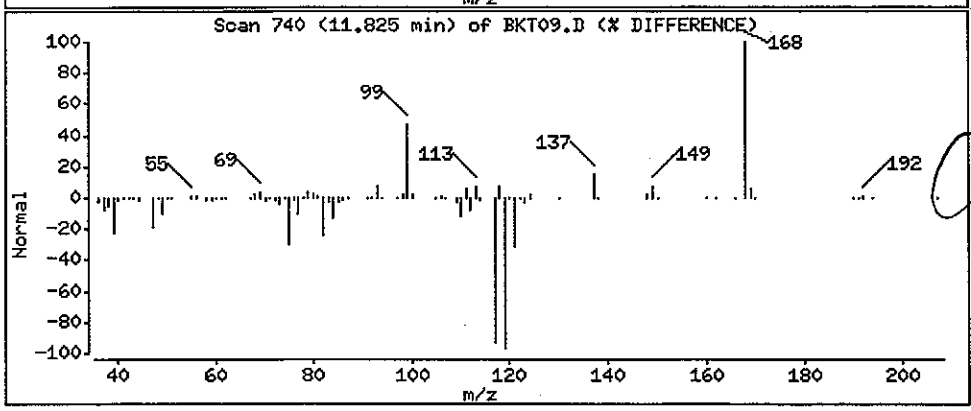
30 Carbon Tetrachloride

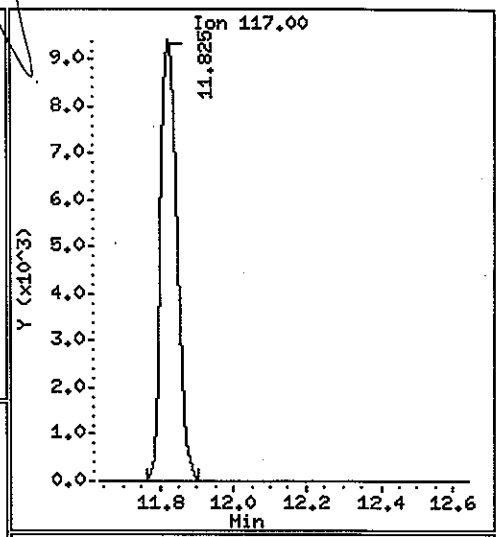
Concentration: 8.9143 UG/L

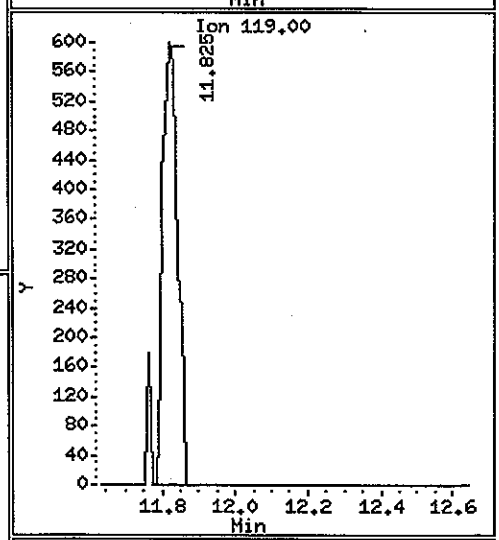


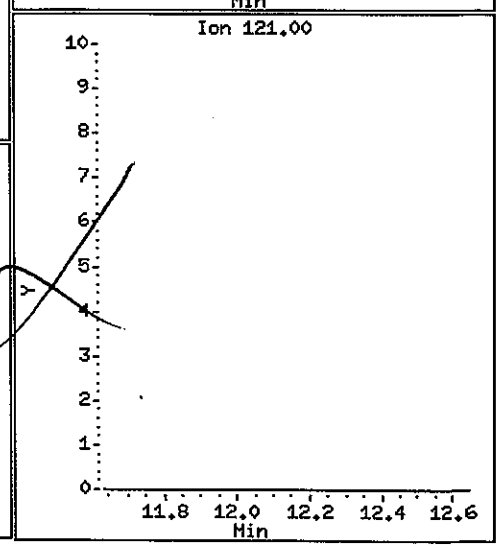












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D

Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

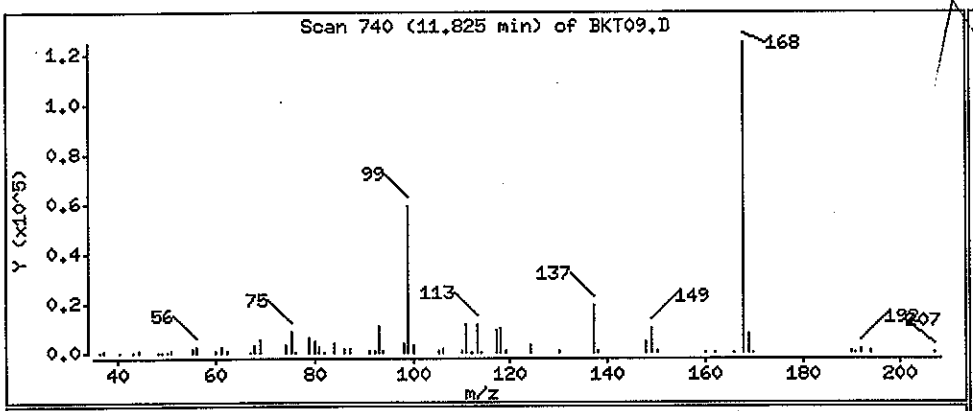
Operator: AJA

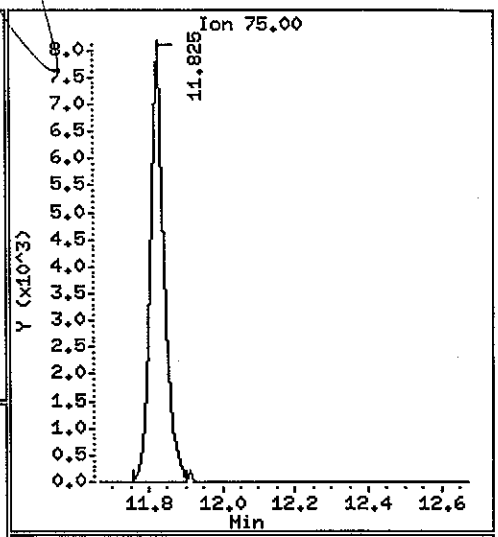
Column phase: RTx Volatiles

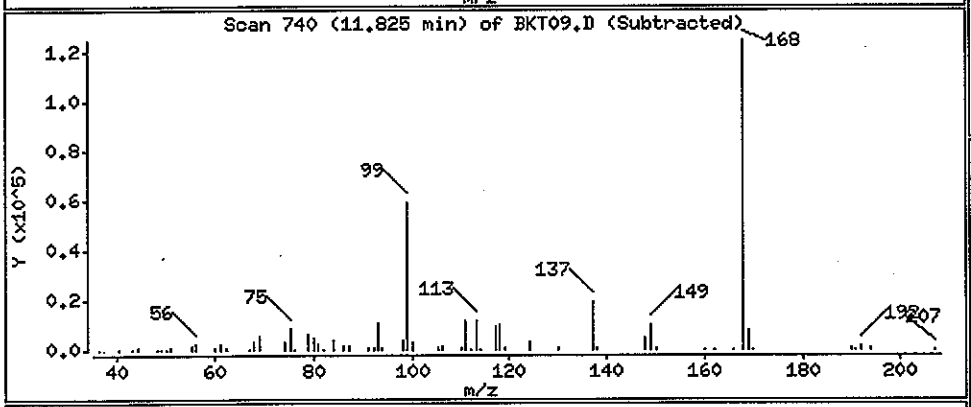
Column diameter: 0.32

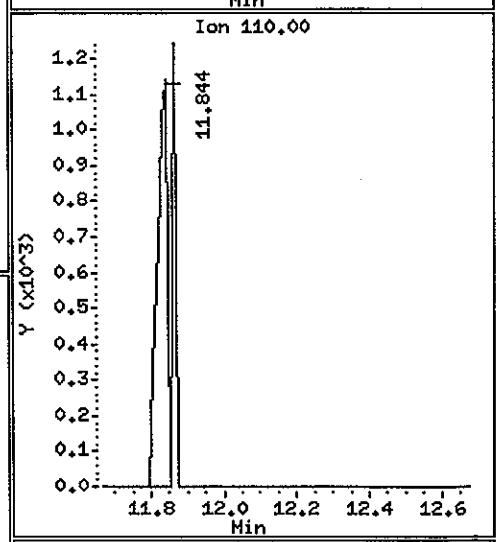
31 1,1-Dichloropropene

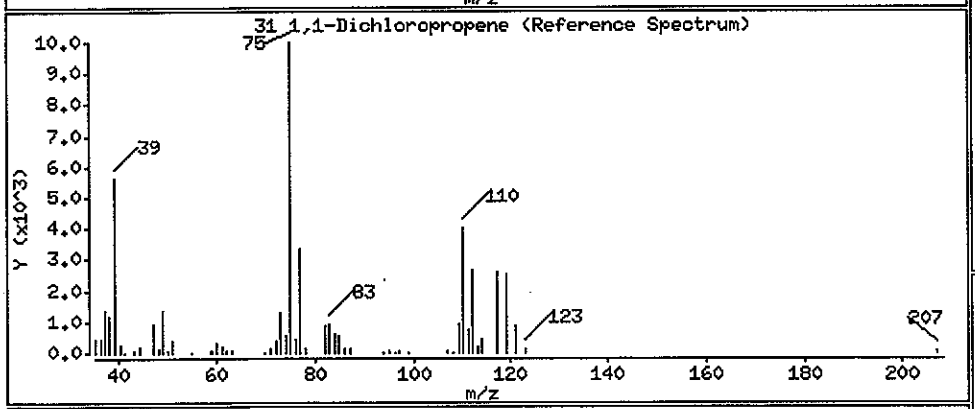
Concentration: 6.0907 UG/L

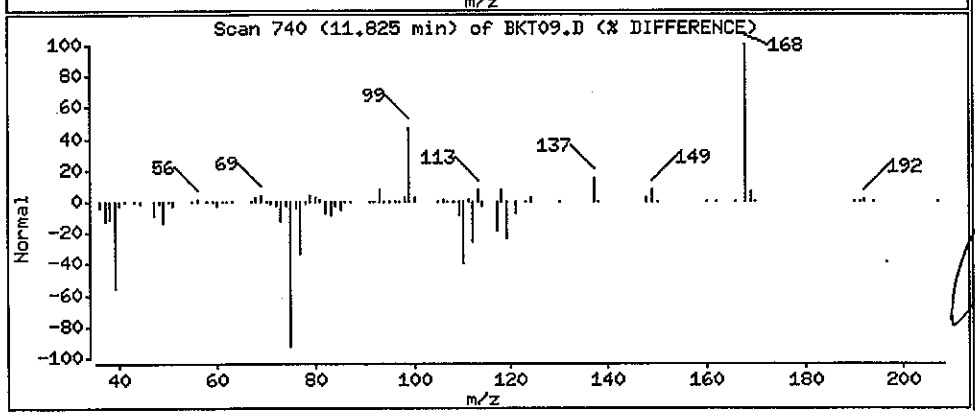


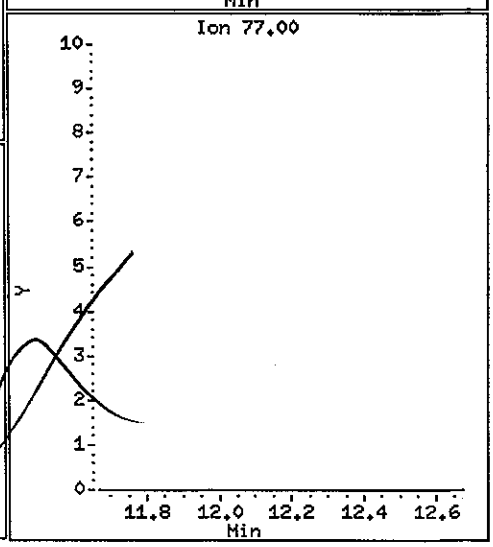












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D

Date : 29-NOV-2004 13:43

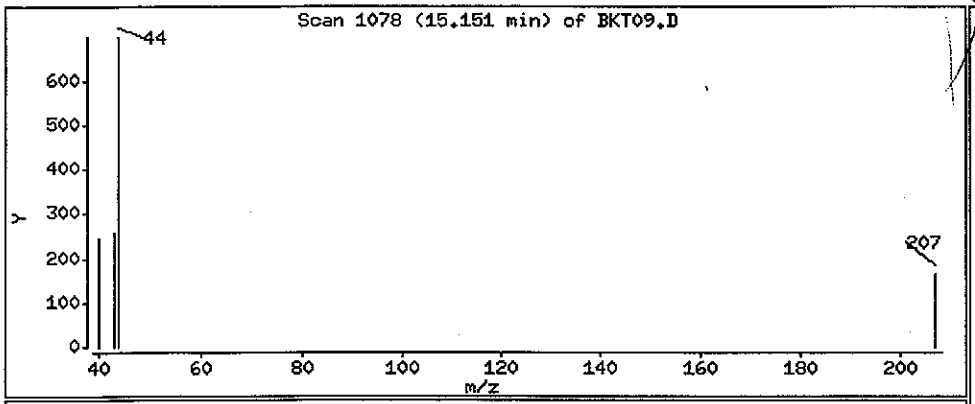
Client ID: DYNA P&T | Instrument: MSVOA02.i

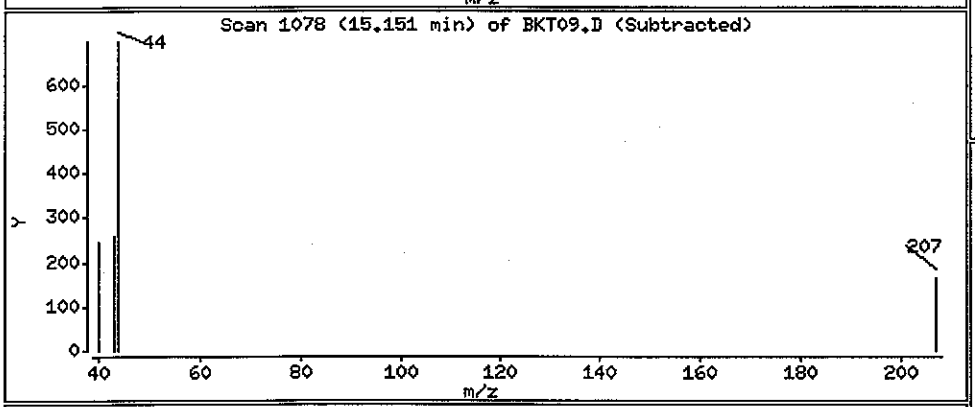
Sample Info: MB,QC274068

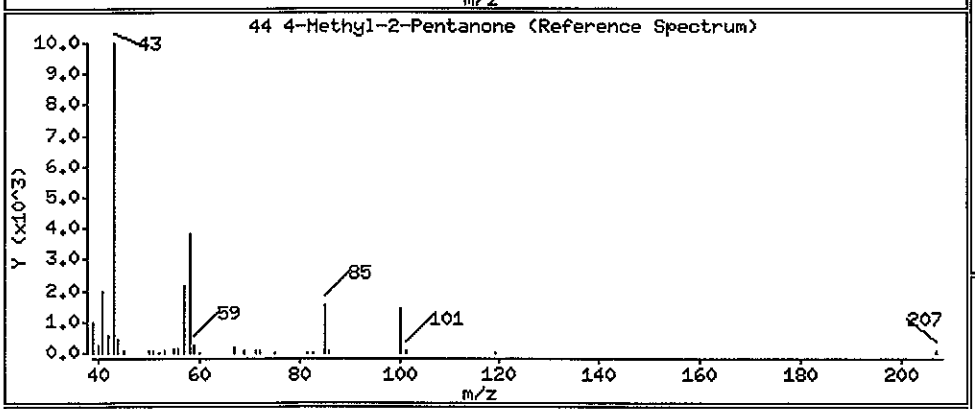
Purge Volume: 5.0 | Operator: AJA

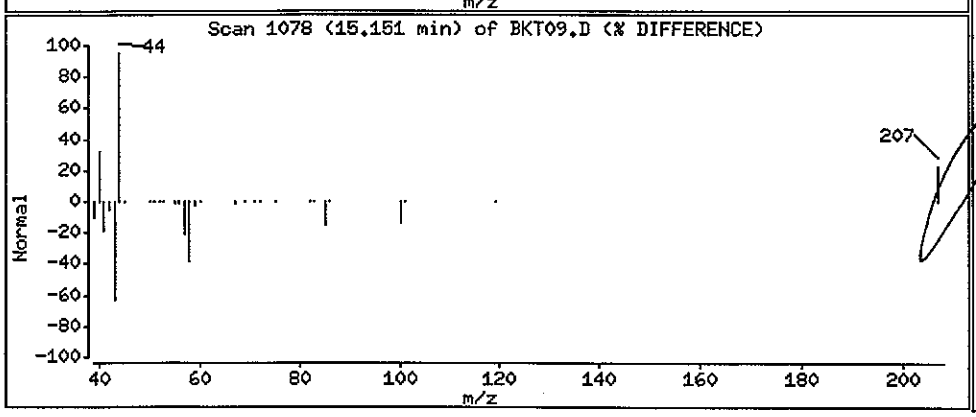
Column phase: RTx Volatiles | Column diameter: 0.32

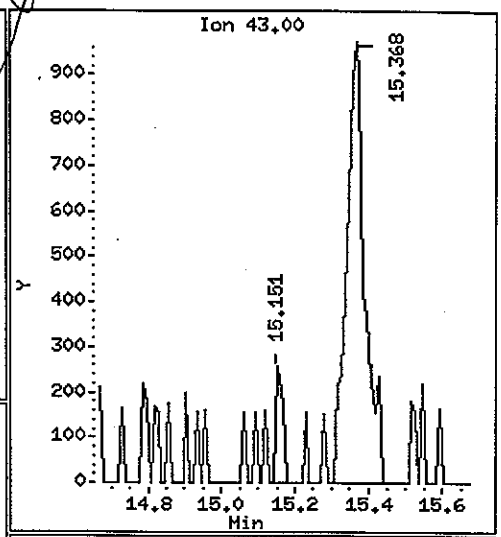
44 4-Methyl-2-Pentanone | Concentration: 0.1095 UG/L

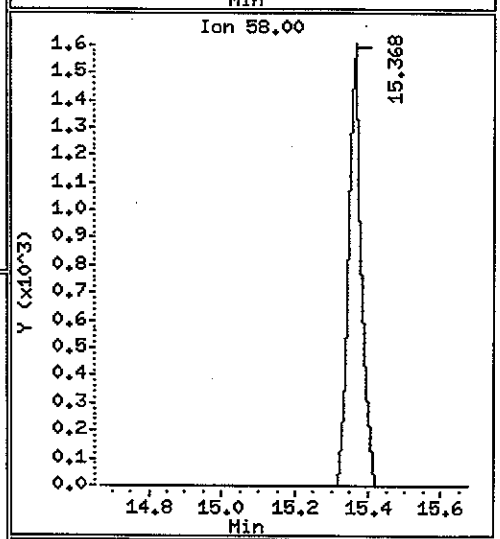


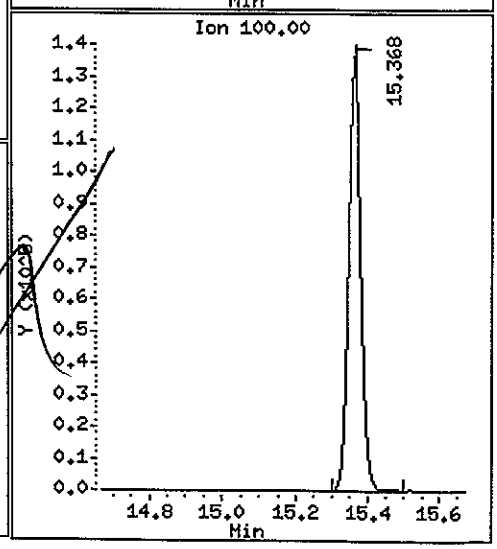












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D

Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

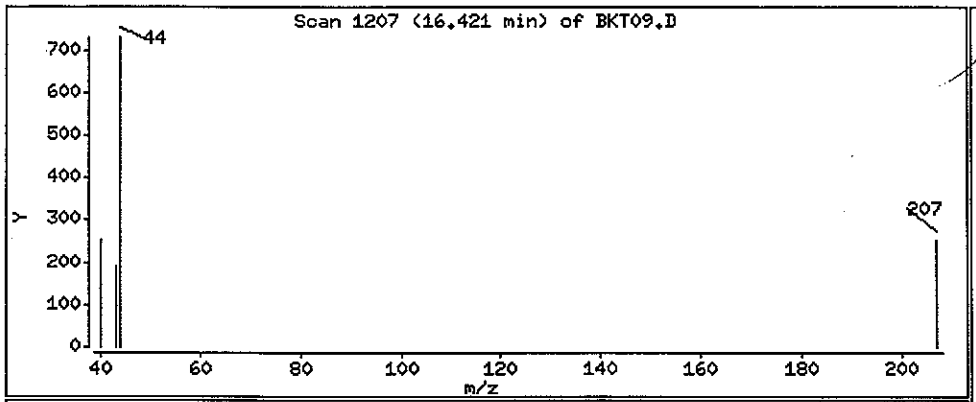
Operator: AJA

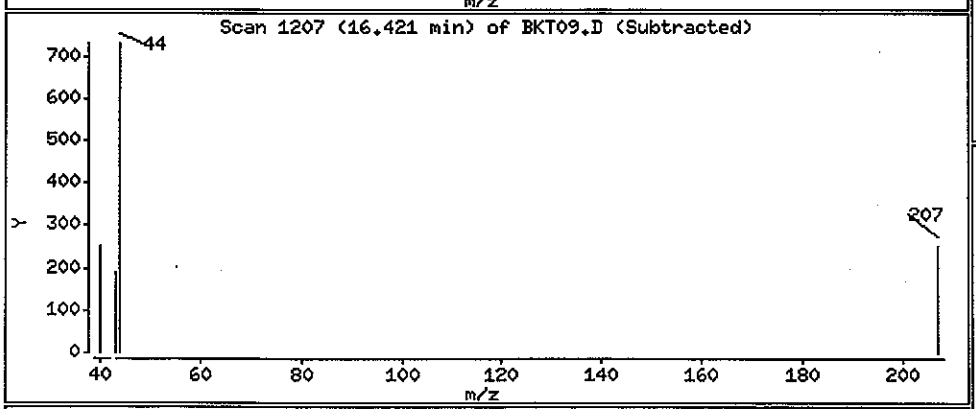
Column phase: RTx Volatiles

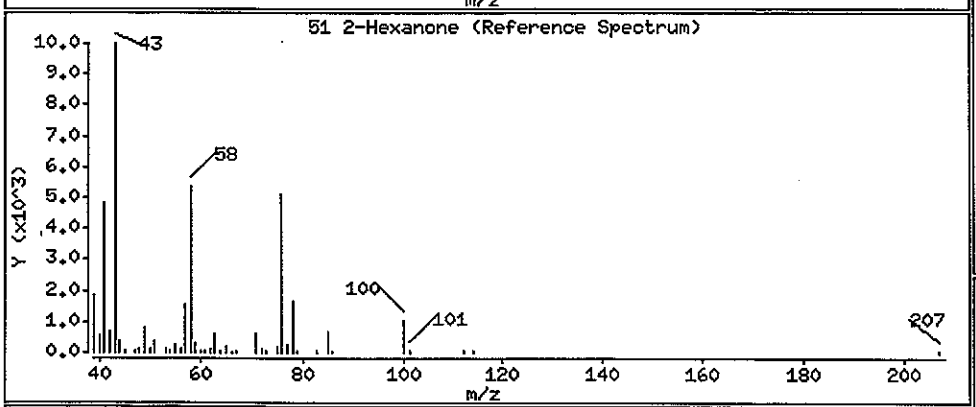
Column diameter: 0.32

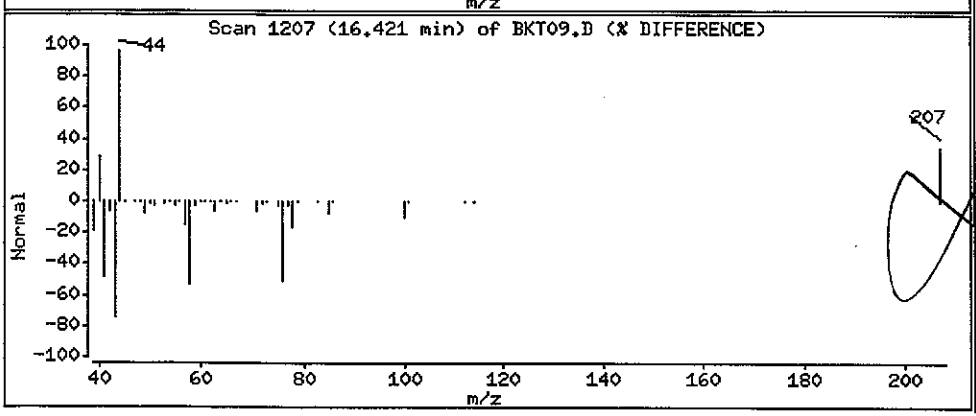
51 2-Hexanone

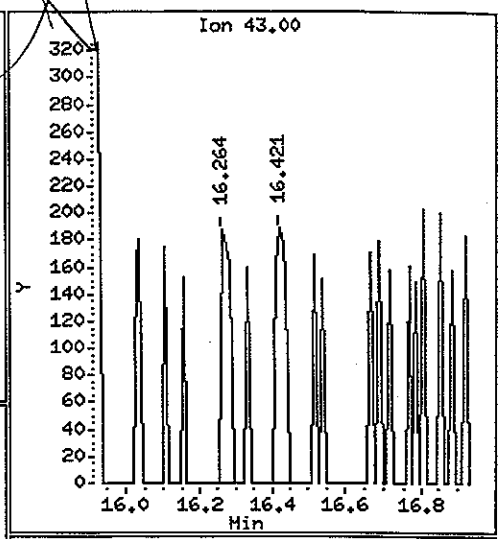
Concentration: 0.1596 UG/L

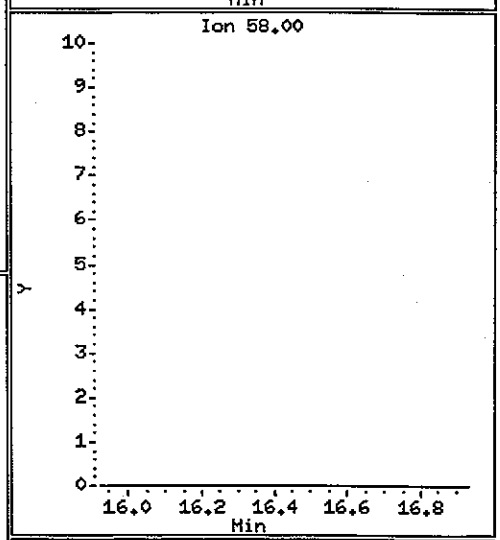


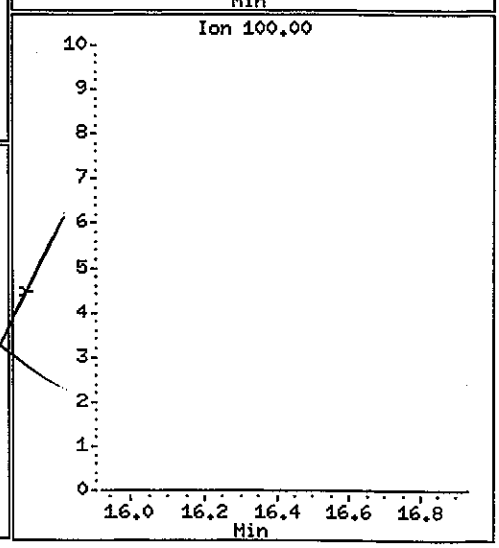












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Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

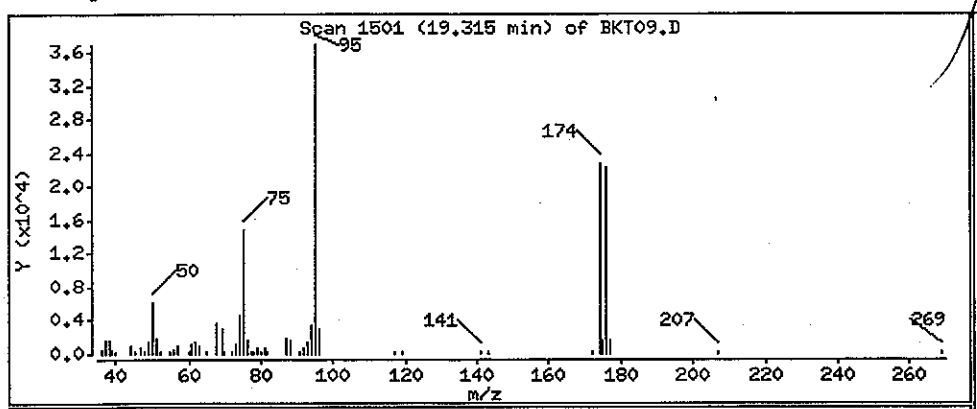
Operator: AJA

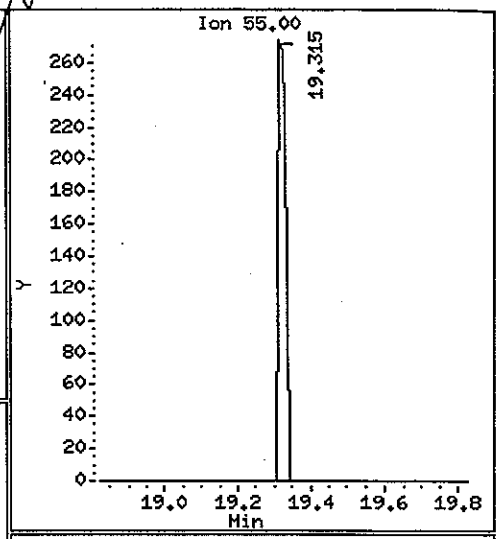
Column phase: RTx Volatiles

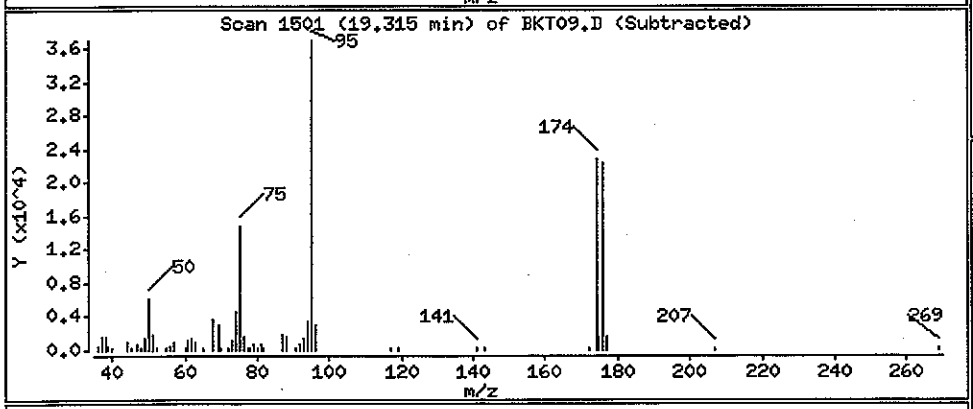
Column diameter: 0.32

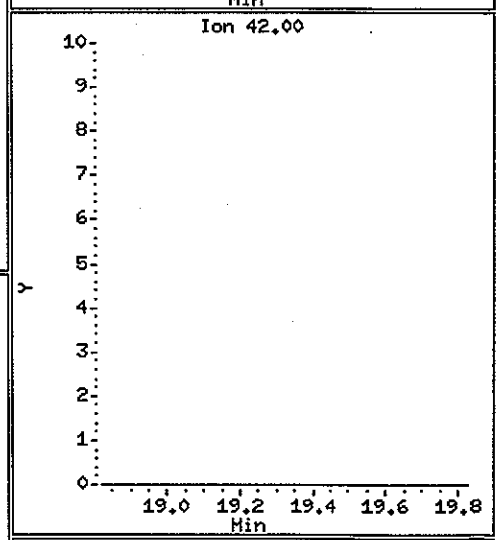
64 Cyclohexanone

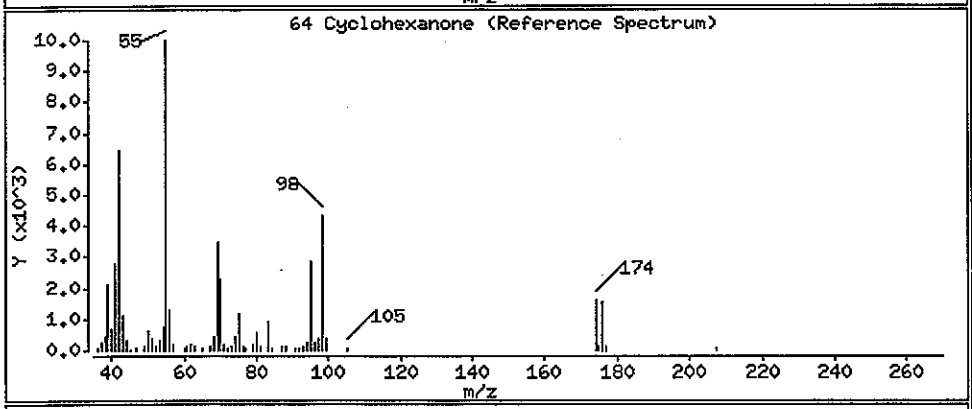
Concentration: 2.1728 UG/L

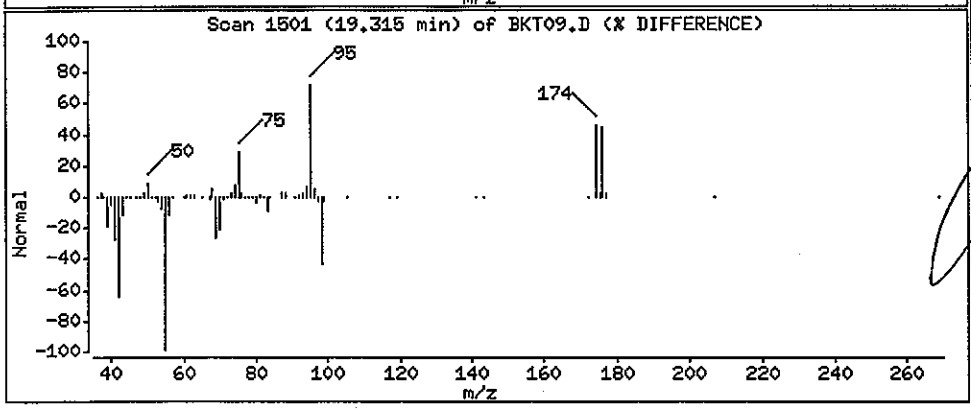


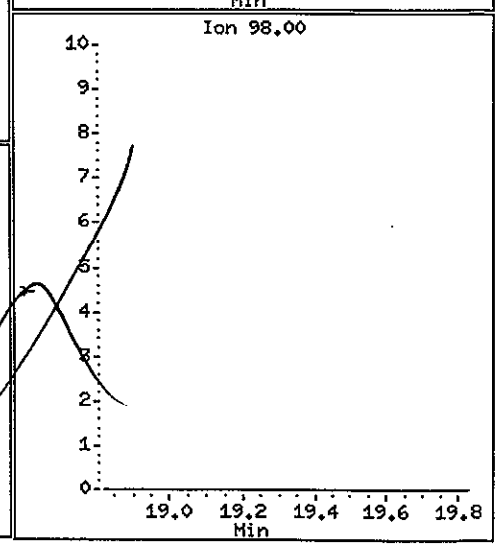












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D

Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

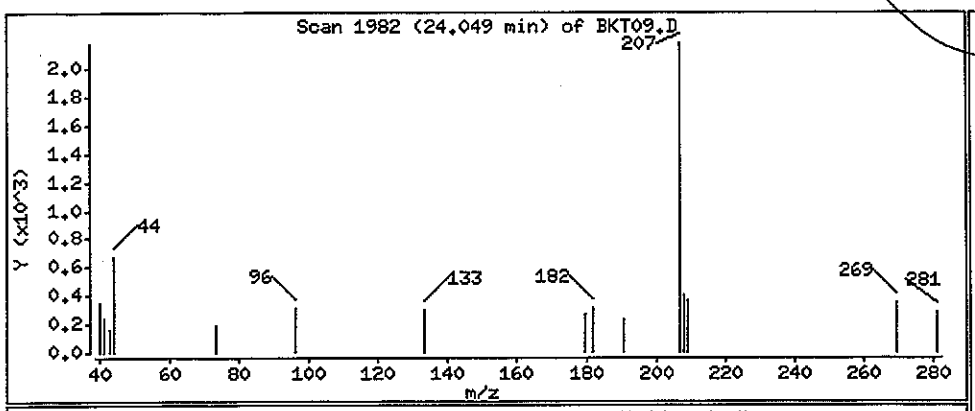
Operator: AJA

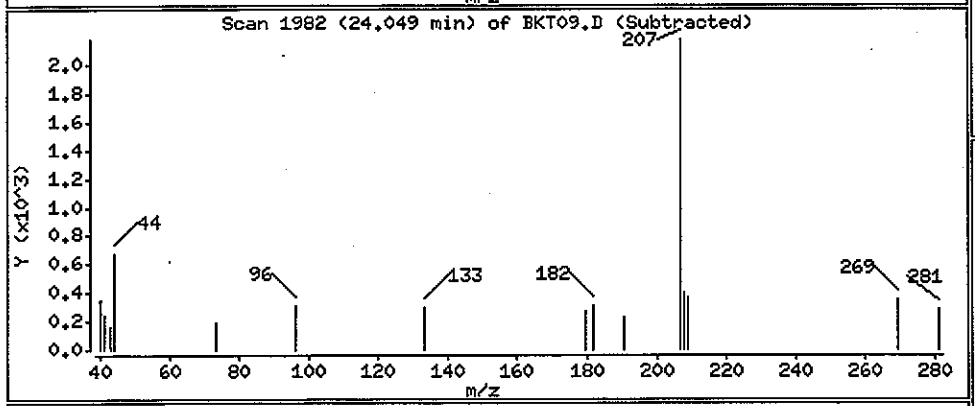
Column phase: RTx Volatiles

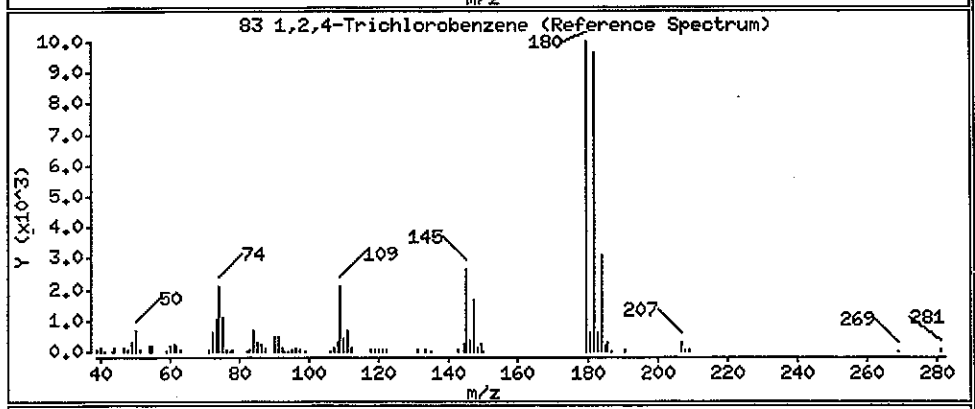
Column diameter: 0.32

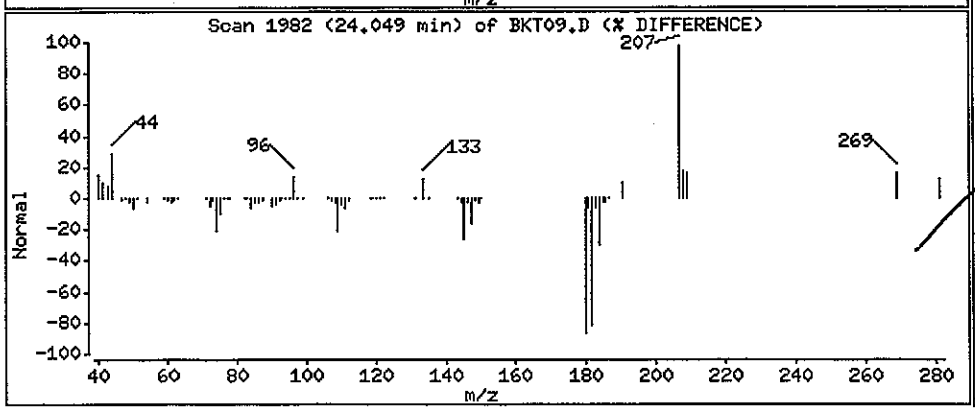
83 1,2,4-Trichlorobenzene

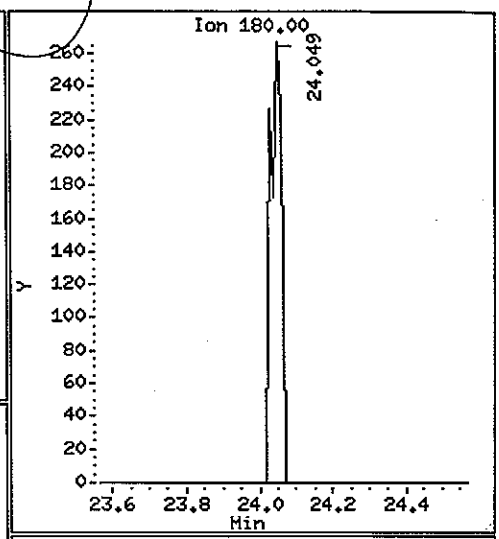
Concentration: 0.1223 UG/L

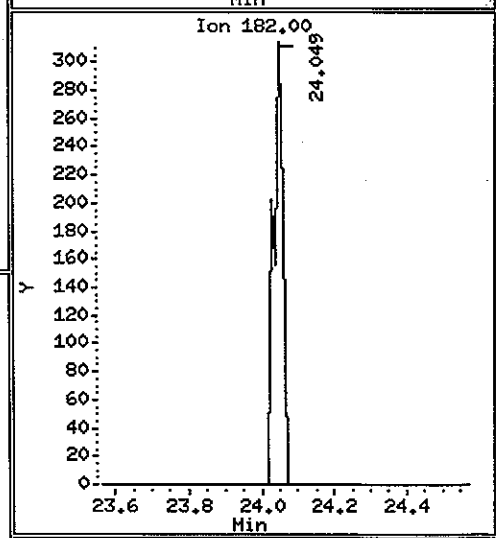


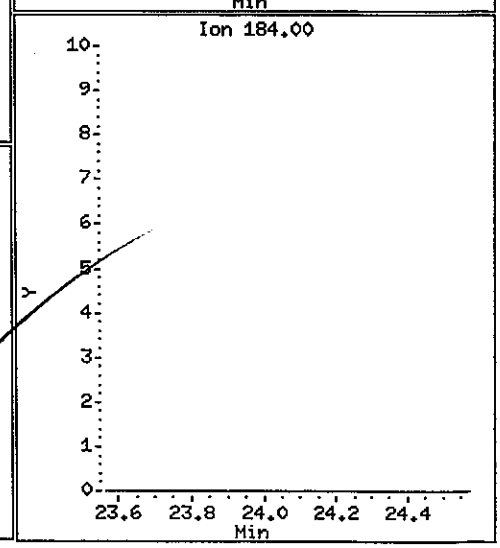












Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT09.D

Date : 29-NOV-2004 13:43

Client ID: DYNA P&T

Instrument: MSVOA02.i

Sample Info: MB,QC274068

Purge Volume: 5.0

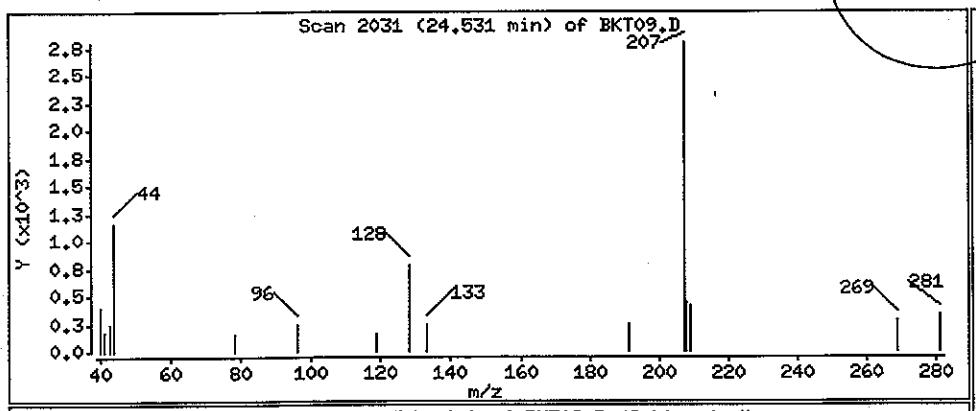
Operator: AJA

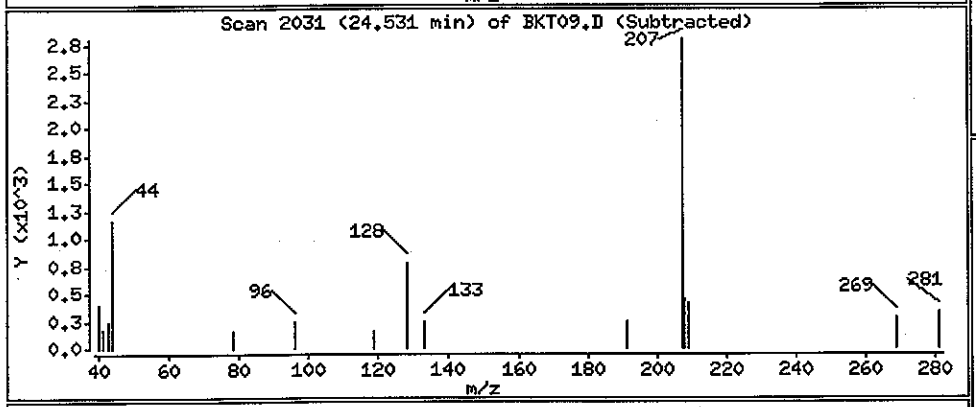
Column phase: RTx Volatiles

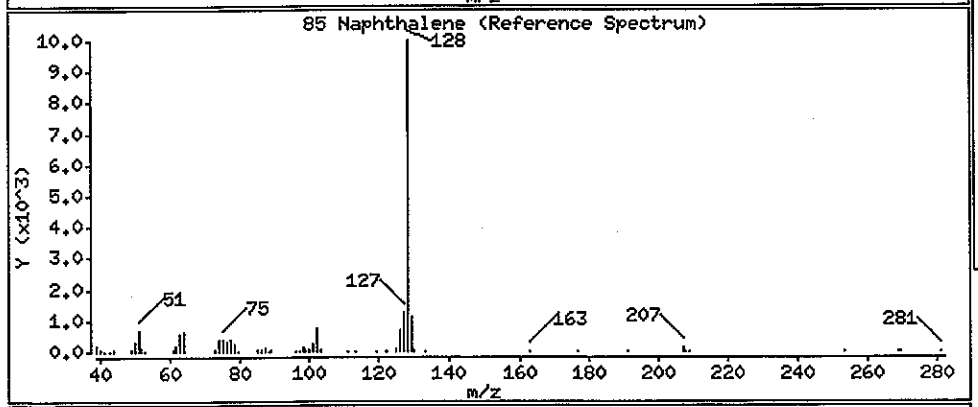
Column diameter: 0.32

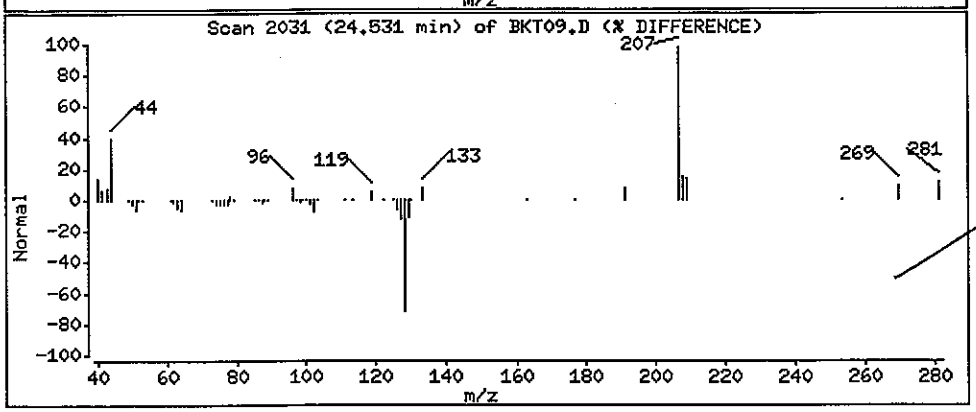
85 Naphthalene

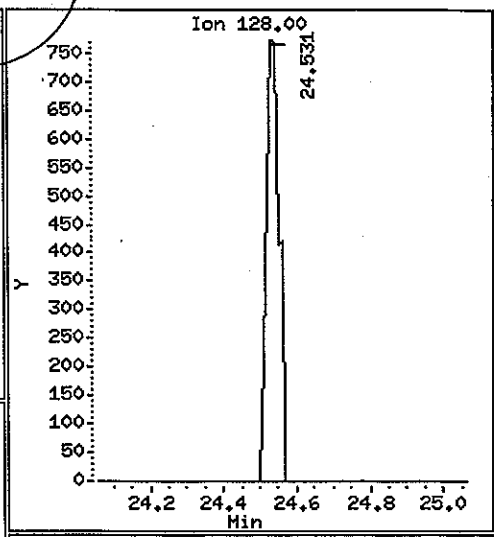
Concentration: 0.1965 UG/L

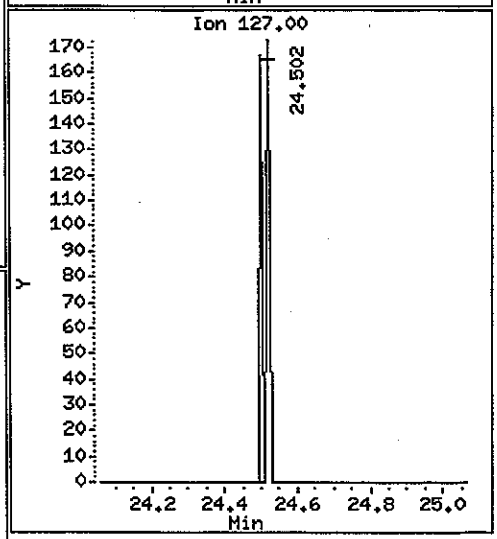












SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA02
Seqnum : 414481618007
Filename : bkt07
IDF : 1.0
PDF : 1.0
Run type : CCV/LCS
Samplenum: QC273~~934~~ 4067
Matrix : Soil
Batchnum : 96898
Inj : 29-NOV-2004 12:25
Caltype : SOIL

ac 12/10/04

Analyte	Spike Conc	CCV/LCS	%Rec	Lim%Rec	Units	Flags
1,1-Dichloroethene	50.00	53.25	106	76-121	ug/Kg	
Benzene	50.00	48.61	97	80-120	ug/Kg	
Trichloroethene	50.00	52.68	105	80-120	ug/Kg	
Toluene	50.00	51.30	103	80-120	ug/Kg	
Chlorobenzene	50.00	50.47	101	80-120	ug/Kg	
Freon 12	50.00	54.31	109	34-120	ug/Kg	!v-
Chloromethane	50.00	45.99	92	44-120	ug/Kg	
Vinyl Chloride	50.00	50.65	101	42-122	ug/Kg	
Bromomethane	50.00	46.89	94	53-141	ug/Kg	
Chloroethane	50.00	48.95	98	56-125	ug/Kg	
Trichlorofluoromethane	50.00	51.03	102	66-138	ug/Kg	
Acetone	50.00	54.00	108	56-173	ug/Kg	
Freon 113	50.00	49.59	99	80-129	ug/Kg	
Methylene Chloride	50.00	45.41	91	70-120	ug/Kg	
MTBE	50.00	49.28	99	76-127	ug/Kg	
Carbon Disulfide	50.00	53.25	106	70-127	ug/Kg	
trans-1,2-Dichloroethene	50.00	49.42	99	75-120	ug/Kg	
Vinyl Acetate	50.00	44.99	90	45-120	ug/Kg	
1,1-Dichloroethane	50.00	46.25	93	69-122	ug/Kg	
2-Butanone	50.00	49.13	98	60-145	ug/Kg	
cis-1,2-Dichloroethene	50.00	48.41	97	76-120	ug/Kg	
2,2-Dichloropropane	50.00	51.11	102	76-130	ug/Kg	
Chloroform	50.00	47.17	94	73-120	ug/Kg	
Bromochloromethane	50.00	50.83	102	76-120	ug/Kg	
1,1,1-Trichloroethane	50.00	49.10	98	76-127	ug/Kg	
1,1-Dichloropropene	50.00	53.15	106	80-122	ug/Kg	
Carbon Tetrachloride	50.00	55.57	111	80-127	ug/Kg	
1,2-Dichloroethane	50.00	48.52	97	76-120	ug/Kg	
1,2-Dichloropropane	50.00	49.32	99	74-120	ug/Kg	
Bromodichloromethane	50.00	48.62	97	80-127	ug/Kg	
Dibromomethane	50.00	49.56	99	80-120	ug/Kg	
4-Methyl-2-Pentanone	50.00	47.08	94	67-130	ug/Kg	
cis-1,3-Dichloropropene	50.00	49.72	99	80-121	ug/Kg	
trans-1,3-Dichloropropene	50.00	50.71	101	80-120	ug/Kg	
1,1,2-Trichloroethane	50.00	49.92	100	80-120	ug/Kg	
2-Hexanone	50.00	47.40	95	67-135	ug/Kg	
1,3-Dichloropropane	50.00	47.52	95	75-120	ug/Kg	
Tetrachloroethene	50.00	54.79	110	80-127	ug/Kg	
Dibromochloromethane	50.00	48.97	98	78-120	ug/Kg	

!=warning -=low bias v=ICV
Page 1 of 3

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA02
Seqnum : 414481618007
Filename : bkt07
IDF : 1.0
PDF : 1.0
Run type : CCV/LCS
Samplenum: QC273934
Matrix : Soil
Batchnum : 96898
Inj : 29-NOV-2004 12:25
Caltype : SOIL

Analyte	Spike Conc	CCV/LCS	%Rec	Lim%Rec	Units	Flags
1,2-Dibromoethane	50.00	50.00	100	80-120	ug/Kg	
1,1,1,2-Tetrachloroethane	50.00	48.52	97	80-120	ug/Kg	
Ethylbenzene	50.00	51.34	103	80-120	ug/Kg	
m,p-Xylenes	100.0	103.8	104	80-120	ug/Kg	
o-Xylene	50.00	51.68	103	80-120	ug/Kg	
Styrene	50.00	51.72	103	80-121	ug/Kg	
Bromoform	50.00	50.51	101	80-125	ug/Kg	
Isopropylbenzene	50.00	49.52	99	72-120	ug/Kg	
1,1,2,2-Tetrachloroethane	50.00	44.17	88	66-120	ug/Kg	
1,2,3-Trichloropropane	50.00	44.29	89	69-120	ug/Kg	
Propylbenzene	50.00	50.99	102	79-121	ug/Kg	
Bromobenzene	50.00	47.32	95	76-120	ug/Kg	
1,3,5-Trimethylbenzene	50.00	49.38	99	77-121	ug/Kg	
2-Chlorotoluene	50.00	47.50	95	77-120	ug/Kg	
4-Chlorotoluene	50.00	48.33	97	77-120	ug/Kg	
tert-Butylbenzene	50.00	52.52	105	79-123	ug/Kg	
1,2,4-Trimethylbenzene	50.00	50.47	101	76-124	ug/Kg	
sec-Butylbenzene	50.00	53.53	107	80-122	ug/Kg	
para-Isopropyl Toluene	50.00	56.24	112	78-120	ug/Kg	
1,3-Dichlorobenzene	50.00	49.29	99	80-120	ug/Kg	
1,4-Dichlorobenzene	50.00	49.14	98	80-120	ug/Kg	
n-Butylbenzene	50.00	58.61	117	74-130	ug/Kg	
1,2-Dichlorobenzene	50.00	49.38	99	80-120	ug/Kg	
1,2-Dibromo-3-Chloropropane	50.00	43.79	88	68-126	ug/Kg	
1,2,4-Trichlorobenzene	50.00	57.86	116	70-139	ug/Kg	
Hexachlorobutadiene	50.00	55.02	110	80-134	ug/Kg	
Naphthalene	50.00	53.96	108	59-140	ug/Kg	
1,2,3-Trichlorobenzene	50.00	55.40	111	69-136	ug/Kg	
tert-Butyl Alcohol (TBA)	500.0	449.4	90	78-135	ug/Kg	
Isopropyl Ether (DIPE)	50.00	46.25	93	80-124	ug/Kg	
Ethyl tert-Butyl Ether (ETBE	50.00	46.69	93	80-120	ug/Kg	
Methyl tert-Amyl Ether (TAME	50.00	49.73	99	80-120	ug/Kg	
Dibromofluoromethane	50.00	48.27	97	79-120	ug/Kg	
1,2-Dichloroethane-d4	50.00	48.82	98	80-120	ug/Kg	
Toluene-d8	50.00	50.93	102	80-120	ug/Kg	
Bromofluorobenzene	50.00	47.86	96	80-121	ug/Kg	
Trifluorotoluene	50.00	54.43	109	60-140	ug/Kg	

!=warning -=low bias v=ICV

11/30/04

11/29/04

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA02
Seqnum : 414481618007
Filename : bkt07
IDF : 1.0
PDF : 1.0
Run type : CCV/LCS
Samplenum: QC273934
Matrix : Soil
Batchnum : 96898
Inj : 29-NOV-2004 12:25
Caltype : SOIL

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	339272	-6.25	11.86	11.83	-0.03
1,4-Difluorobenzene	521847	477123	-8.57	13.09	13.06	-0.03
Chlorobenzene-d5	489940	459373	-6.24	17.64	17.62	-0.02
1,4-Dichlorobenzene-d4	259088	263429	1.68	21.02	21.00	-0.02

!=warning -=low bias v=ICV
Page 3 of 3

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Report Date: 29-Nov-2004 13:47

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 12:25 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : CCV/LCS,QC273934,96898,04WS2168A,0.001/5
Misc Info : 04SS408,0.0005/5,50PPB, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\826GOX02.m
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.936	4.955	(0.417)	280121	54.3099	54.3099
2 Chloromethane	50	5.428	5.448	(0.459)	273188	45.9948	45.9948
3 Vinyl Chloride	62	5.675	5.704	(0.480)	214360	50.6539	50.6539
4 Bromomethane	94	6.452	6.481	(0.546)	123962	46.8945	46.8945
5 Chloroethane	64	6.659	6.688	(0.563)	109313	48.9546	48.9545
6 Trichlorofluoromethane	101	7.112	7.141	(0.601)	261877	51.0273	51.0273
7 Ethanol	45	7.476	7.505	(0.632)	260883	4402.55	4402.5469
8 Freon 113	101	8.027	8.056	(0.679)	139142	49.5909	49.5909
9 1,1-Dichloroethene	96	8.125	8.154	(0.687)	141220	53.2492	53.2491(R)
10 Acetone	43	8.273	8.302	(0.700)	63277	54.0038	54.0038
11 Isopropanol	45	8.391	8.420	(0.710)	120658	446.003	446.0032
12 Carbon Disulfide	76	8.588	8.617	(0.726)	528913	53.2495	53.2494
13 Methylene Chloride	84	9.031	9.060	(0.764)	174656	45.4051	45.4050
14 tert-Butyl Alcohol (TBA)	59	9.060	9.099	(0.766)	174085	449.399	449.3994
15 MTBE	73	9.346	9.375	(0.790)	385506	49.2847	49.2847
16 trans-1,2-Dichloroethene	96	9.425	9.454	(0.797)	154821	49.4186	49.4185

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Report Date: 29-Nov-2004 13:47

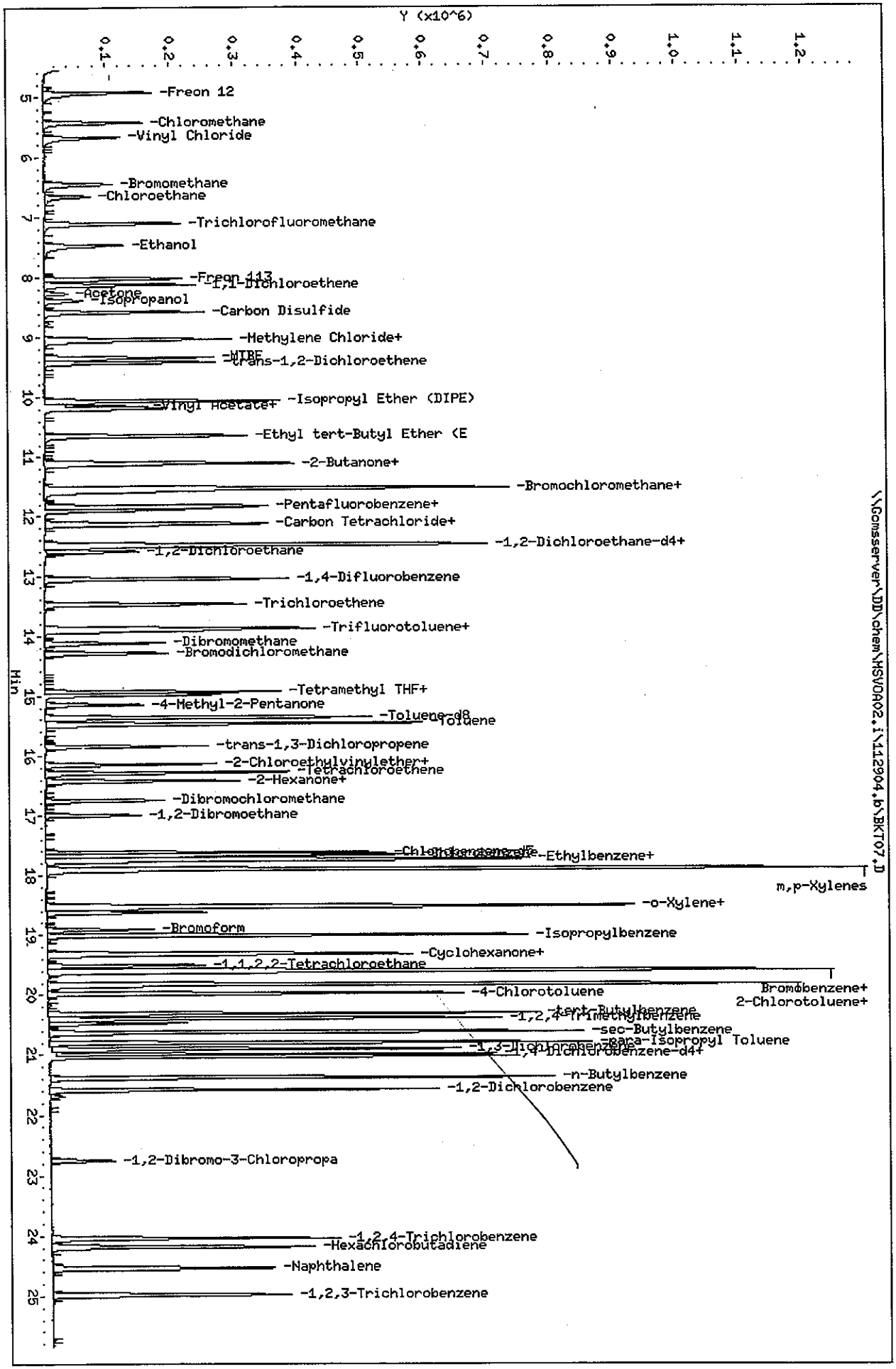
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 Isopropyl Ether (DIPE)	45	10.064	10.093	(0.851)	474007	46.2535	46.2535
	18 Vinyl Acetate	43	10.143	10.172	(0.858)	293172	44.9882	44.9881
	19 1,1-Dichloroethane	63	10.192	10.221	(0.862)	246487	46.2503	46.2503
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.645	10.674	(0.900)	399595	46.6948	46.6948
	21 2-Butanone	43	11.108	11.137	(0.939)	84161	49.1335	49.1335
	22 2,2-Dichloropropane	77	11.098	11.127	(0.938)	182066	51.1057	51.1056
	23 cis-1,2-Dichloroethene	96	11.127	11.156	(0.941)	161459	48.4066	48.4065
	24 Bromochloromethane	128	11.531	11.560	(0.975)	92032	50.8315	50.8315
	25 Tetrahydrofuran	42	11.531	11.560	(0.975)	453791	454.525	454.5246
	26 Chloroform	83	11.580	11.609	(0.979)	230189	47.1654	47.1654
*	27 Pentafluorobenzene	168	11.826	11.855	(1.000)	339272	50.0000	
$	28 Dibromofluoromethane	113	11.856	11.885	(1.002)	145704	48.2673	48.2673
	29 1,1,1-Trichloroethane	97	11.895	11.924	(1.006)	174119	49.1019	49.1019
	30 Carbon Tetrachloride	117	12.111	12.140	(0.928)	167295	55.5680	55.5680
	31 1,1-Dichloropropene	75	12.141	12.170	(0.930)	177992	53.1506	53.1506
$	32 1,2-Dichloroethane-d4	65	12.466	12.495	(0.955)	119677	48.8216	48.8215
	33 Benzene	78	12.486	12.514	(0.956)	552618	48.6080	48.6080(R)
	34 Methyl tert-Amyl Ether (TAME)	73	12.505	12.534	(0.958)	384635	49.7314	49.7313
	35 1,2-Dichloroethane	62	12.594	12.623	(0.965)	154874	48.5204	48.5203
*	36 1,4-Difluorobenzene	114	13.056	13.085	(1.000)	477123	50.0000	
	37 Trichloroethene	95	13.480	13.509	(1.032)	144383	52.6843	52.6843(R)
$	38 Trifluorotoluene	146	13.883	13.912	(1.063)	290902	54.4312	54.4311
	39 1,2-Dichloropropane	63	13.923	13.951	(1.066)	147696	49.3164	49.3164
	40 Dibromomethane	93	14.129	14.148	(1.082)	95861	49.5555	49.5554
	41 Bromodichloromethane	83	14.297	14.325	(1.095)	166743	48.6222	48.6221
	42 Tetramethyl THF	43	14.936	14.965	(1.144)	268253	46.5200	46.5199
	43 cis-1,3-Dichloropropene	75	14.985	15.014	(1.148)	213257	49.7238	49.7237
	44 4-Methyl-2-Pentanone	43	15.153	15.172	(1.161)	152448	47.0797	47.0797
$	45 Toluene-d8	98	15.369	15.388	(1.177)	504120	50.9272	50.9272
	46 Toluene	92	15.468	15.497	(1.185)	391480	51.3017	51.3017(R)
	47 trans-1,3-Dichloropropene	75	15.842	15.871	(1.213)	188558	50.7135	50.7134
	48 2-Chloroethylvinylether	63	16.147	16.166	(1.237)	20836	47.3928	47.3928
	49 1,1,2-Trichloroethane	85	16.147	16.166	(1.237)	66815	49.9177	49.9176
	50 Tetrachloroethene	166	16.295	16.314	(0.925)	176838	54.7866	54.7866
	51 2-Hexanone	43	16.413	16.432	(0.931)	116443	47.3979	47.3979
	52 1,3-Dichloropropane	76	16.432	16.451	(0.932)	202639	47.5150	47.5149
	53 Dibromochloromethane	129	16.757	16.776	(0.951)	150172	48.9720	48.9720
	54 1,2-Dibromoethane	107	16.993	17.013	(1.302)	141820	50.0036	50.0035
*	55 Chlorobenzene-d5	117	17.623	17.642	(1.000)	459373	50.0000	
	56 Chlorobenzene	112	17.663	17.692	(1.002)	478201	50.4746	50.4745(R)
	57 Ethylbenzene	91	17.732	17.761	(1.006)	762645	51.3394	51.3394
	58 1,1,1,2-Tetrachloroethane	131	17.761	17.780	(1.008)	137707	48.5214	48.5214
	59 m,p-Xylenes	106	17.899	17.928	(1.016)	644067	103.752	103.7521
	60 o-Xylene	106	18.519	18.538	(1.051)	312468	51.6822	51.6821
	61 Styrene	104	18.539	18.568	(1.052)	534077	51.7188	51.7188
	62 Bromoform	173	18.903	18.932	(1.073)	116225	50.5137	50.5136
	63 Isopropylbenzene	105	19.011	19.030	(0.905)	767354	49.5206	49.5205

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Report Date: 29-Nov-2004 13:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 Cyclohexanone	55	19.306	19.325	(0.919)	239799	1122.54	1122.5380
$ 65 Bromofluorobenzene	95	19.336	19.355	(0.921)	244861	47.8607	47.8606
66 1,1,2,2-Tetrachloroethane	83	19.513	19.532	(0.929)	181187	44.1678	44.1678
67 Bromobenzene	156	19.592	19.621	(0.933)	216157	47.3218	47.3218
68 Propylbenzene	91	19.602	19.631	(0.933)	945660	50.9917	50.9916
69 1,2,3-Trichloropropane	110	19.631	19.650	(0.935)	50938	44.2850	44.2849
70 2-Chlorotoluene	91	19.828	19.847	(0.944)	603240	47.5039	47.5038
71 1,3,5-Trimethylbenzene	105	19.838	19.867	(0.945)	609407	49.3832	49.3832
72 4-Chlorotoluene	91	19.985	20.005	(0.952)	574352	48.3299	48.3298
73 tert-Butylbenzene	119	20.320	20.339	(0.968)	569433	52.5181	52.5180
74 1,2,4-Trimethylbenzene	105	20.399	20.418	(0.971)	586548	50.4699	50.4698
75 sec-Butylbenzene	105	20.625	20.644	(0.982)	883065	53.5302	53.5302
76 para-Isopropyl Toluene	119	20.802	20.822	(0.991)	722635	56.2412	56.2411
77 1,3-Dichlorobenzene	146	20.901	20.930	(0.995)	415549	49.2920	49.2919
* 78 1,4-Dichlorobenzene-d4	152	20.999	21.018	(1.000)	263429	50.0000	
79 1,4-Dichlorobenzene	146	21.029	21.058	(1.001)	422197	49.1440	49.1440
80 n-Butylbenzene	91	21.383	21.402	(1.018)	609142	58.6127	58.6126
81 1,2-Dichlorobenzene	146	21.590	21.609	(1.028)	391779	49.3774	49.3774
82 1,2-Dibromo-3-Chloropropane	75	22.751	22.770	(1.083)	33637	43.7934	43.7933
83 1,2,4-Trichlorobenzene	180	24.041	24.070	(1.145)	254229	57.8640	57.8639
84 Hexachlorobutadiene	225	24.188	24.207	(1.152)	144755	55.0226	55.0226
85 Naphthalene	128	24.543	24.562	(1.169)	514082	53.9625	53.9624
86 1,2,3-Trichlorobenzene	180	24.985	25.005	(1.190)	233249	55.3975	55.3975

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\Comsserver\DD\chem\MSVOA02.i\112904.b\BKT07.D
Date : 29-NOV-2004 12:25
Client ID: DYNA P&T
Sample Info: CCV/LCS,QC273934,96898,04WS2168A,0.001/5
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA02.i
Operator: AJA
Column diameter: 0.32
Y (x10^6)
Min
-Freon 12
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Freon 113
-1,1-Dichloroethene
-Acetone
-Isopropanol
-Carbon Disulfide
-Methylene Chloride+
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-Isopropyl Ether (DIPE)
-Ethyl tert-Butyl Ether (E
-2-Butanone+
-Bromochloromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane
-Bromodichloromethane
-Tetramethyl THF+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-2-Chloroethylvinylether+
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Ethylbenzene+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone+
-1,1,2,2-Tetrachloroethane
-4-Chlorotoluene
Bromobenzene+
2-Chlorotoluene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-1,3-Dichlorobenzene
-para-Isopropyl Toluene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 8260B

Instid : MSVOA02	Instid : MSVOA02	Instid : MSVOA02
Seqnum : 414481618010	Seqnum : 414481618024	Seqnum : 414481618025
Filename : bkt10	Filename : bkt24	Filename : bkt25
IDF : 0.9259	IDF : 0.9259	IDF : 0.9259
PDF : 1.0	PDF : 1.0	PDF : 1.0
Run type : MSS	Run type : MS	Run type : MSD
Samplenum: 176248-003	Samplenum: QC274118	Samplenum: QC274119
Matrix : Soil	Matrix : Soil	Matrix : Soil
Batchnum : 96931	Batchnum : 96931	Batchnum : 96931
Inj : 29-NOV-2004 14:28	Inj : 29-NOV-2004 22:19	Inj : 29-NOV-2004 22:53
Caltype : SOIL	Caltype : SOIL	Caltype : SOIL

Analyte	MSS	Spike Conc	MS	%Rec	MSD	%Rec	Lim%Rec	Units	RPD	Lim	Flags
1,1-Dichloroethene	ND	46.30	41.16	89	44.14	95	66-120	ug/Kg	7	20	
Benzene	ND	46.30	41.25	89	42.22	91	67-120	ug/Kg	2	20	
Trichloroethene	ND	46.30	43.52	94	44.81	97	60-129	ug/Kg	3	20	
Toluene	ND	46.30	41.76	90	41.92	91	59-120	ug/Kg	0	20	
Chlorobenzene	ND	46.30	39.11	84	39.59	86	56-120	ug/Kg	1	20	
MTBE	ND	46.30	43.21	93	46.55	101	71-120	ug/Kg	7	20	
tert-Butyl Alcohol (TBA)	ND	231.5	229.3	99	249.4	108	65-120	ug/Kg	8	30	
Isopropyl Ether (DIPE)	ND	46.30	43.84	95	44.57	96	68-120	ug/Kg	2	30	
Ethyl tert-Butyl Ether (ETBE	ND	46.30	43.90	95	46.89	101	69-120	ug/Kg	7	30	
Methyl tert-Amyl Ether (TAME	ND	46.30	45.29	98	46.43	100	80-120	ug/Kg	2	30	
Dibromofluoromethane		46.30	45.61	99	46.85	101	79-120	ug/Kg	--		
1,2-Dichloroethane-d4		46.30	46.53	100	45.58	98	80-120	ug/Kg	--		
Toluene-d8		46.30	46.92	101	45.92	99	80-120	ug/Kg	--		
Bromofluorobenzene		46.30	46.24	100	45.95	99	80-121	ug/Kg	--		

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	423381	16.99	11.86	11.83	-0.03
1,4-Difluorobenzene	521847	593046	13.64	13.09	13.05	-0.04
Chlorobenzene-d5	489940	550124	12.28	17.64	17.62	-0.02
1,4-Dichlorobenzene-d4	259088	287736	11.06	21.02	21.00	-0.02

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	412645	14.02	11.86	11.83	-0.03
1,4-Difluorobenzene	521847	596919	14.39	13.09	13.05	-0.04
Chlorobenzene-d5	489940	544885	11.21	17.64	17.62	-0.02
1,4-Dichlorobenzene-d4	259088	287827	11.09	21.02	21.00	-0.02

11/30/04

11/30/04

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT24.D
Report Date: 29-Nov-2004 23:41

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT24.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 22:19 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : MS,QC274118,96931,5.4/5,04WS1940,0.001/5,
Misc Info : 04WS2093,0.001/5,04WS1967,0.001/5, NP
Comment : 8 AH 11/30/04
Method : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\826GOX02.m
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 24 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.934	4.955	(0.417)	198004	32.6166	32.6166
2 Chloromethane	50	5.426	5.448	(0.459)	222038	29.9566	29.9565
3 Vinyl Chloride	62	5.672	5.704	(0.479)	187449	35.4952	35.4952
4 Bromomethane	94	6.449	6.481	(0.545)	132361	40.1245	40.1245
5 Chloroethane	64	6.656	6.688	(0.562)	105310	37.7928	37.7928
6 Trichlorofluoromethane	101	7.109	7.141	(0.601)	278443	44.1182	44.1181
7 Ethanol	45	7.473	7.505	(0.632)	334984	4530.00	4529.9993
8 Freon 113	101	8.024	8.056	(0.678)	170355	48.7248	48.7247
9 1,1-Dichloroethene	96	8.132	8.154	(0.687)	147117	44.4527	44.4526(R)
10 Acetone	43	8.270	8.302	(0.699)	206032	140.906	140.9059
11 Isopropanol	45	8.398	8.420	(0.710)	117173	347.075	347.0745
12 Carbon Disulfide	76	8.585	8.617	(0.726)	428071	34.5354	34.5353
13 Methylene Chloride	84	9.038	9.060	(0.764)	246373	51.3253	51.3253
14 tert-Butyl Alcohol (TBA)	59	9.067	9.099	(0.766)	119687	247.592	247.5918
15 MTBE	73	9.343	9.375	(0.790)	455501	46.6645	46.6645
16 trans-1,2-Dichloroethene	96	9.431	9.454	(0.797)	169640	43.3915	43.3915

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT24.D
Report Date: 29-Nov-2004 23:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 Isopropyl Ether (DIPE)	45	10.071	10.093	(0.851)	605559	47.3514	47.3514
	18 Vinyl Acetate	43	10.071	10.172	(0.851)	244004	30.0047	30.0047
	19 1,1-Dichloroethane	63	10.189	10.221	(0.861)	288047	43.3113	43.3112
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.652	10.674	(0.900)	506270	47.4076	47.4075
	21 2-Butanone	43	11.105	11.137	(0.938)	81132	37.9558	37.9558
	22 2,2-Dichloropropane	77	11.105	11.127	(0.938)	202268	45.4971	45.4971
	23 cis-1,2-Dichloroethene	96	11.124	11.156	(0.940)	182488	43.8422	43.8421
	24 Bromochloromethane	128	11.538	11.560	(0.975)	104592	46.2923	46.2923
	25 Tetrahydrofuran	42	11.538	11.560	(0.975)	565341	453.762	453.7619
	26 Chloroform	83	11.587	11.609	(0.979)	268221	44.0401	44.0401
*	27 Pentafluorobenzene	168	11.833	11.855	(1.000)	423381	50.0000	
$	28 Dibromofluoromethane	113	11.853	11.885	(1.002)	185565	49.2600	49.2599
	29 1,1,1-Trichloroethane	97	11.892	11.924	(1.005)	207443	46.8776	46.8776
	30 Carbon Tetrachloride	117	12.119	12.140	(0.928)	187181	50.0203	50.0203
	31 1,1-Dichloropropene	75	12.138	12.170	(0.930)	193332	46.4467	46.4467
$	32 1,2-Dichloroethane-d4	65	12.473	12.495	(0.956)	153104	50.2492	50.2491
	33 Benzene	78	12.483	12.514	(0.956)	629508	44.5478	44.5478(R)
	34 Methyl tert-Amyl Ether (TAME)	73	12.512	12.534	(0.959)	470232	48.9143	48.9143
	35 1,2-Dichloroethane	62	12.591	12.623	(0.965)	176835	44.5715	44.5715
*	36 1,4-Difluorobenzene	114	13.054	13.085	(1.000)	593046	50.0000	
	37 Trichloroethene	95	13.477	13.509	(1.032)	160096	46.9988	46.9987(R)
$	38 Trifluorotoluene	146	13.890	13.912	(1.064)	1644	2.93500	2.9350
	39 1,2-Dichloropropane	63	13.920	13.951	(1.066)	162262	43.5894	43.5893
	40 Dibromomethane	93	14.126	14.148	(1.082)	111394	46.3294	46.3293
	41 Bromodichloromethane	83	14.294	14.325	(1.095)	200618	47.0653	47.0652
	42 Tetramethyl THF	43	14.943	14.965	(1.145)	329855	46.0214	46.0213
	43 cis-1,3-Dichloropropene	75	14.993	15.014	(1.149)	211053	39.5907	39.5907
	44 4-Methyl-2-Pentanone	43	15.150	15.172	(1.161)	146012	36.2778	36.2778
$	45 Toluene-d8	98	15.367	15.388	(1.177)	623503	50.6753	50.6753
	46 Toluene	92	15.475	15.497	(1.185)	427795	45.1025	45.1024(R)
	47 trans-1,3-Dichloropropene	75	15.849	15.871	(1.214)	170566	36.9072	36.9071
	48 2-Chloroethylvinylether	63	16.144	16.166	(1.237)	24340	44.5403	44.5403
	49 1,1,2-Trichloroethane	85	16.144	16.166	(1.237)	77237	46.4245	46.4244
	50 Tetrachloroethene	166	16.292	16.314	(0.925)	191409	49.5184	49.5184
	51 2-Hexanone	43	16.410	16.432	(0.931)	67918	23.0855	23.0855
	52 1,3-Dichloropropane	76	16.430	16.451	(0.932)	234547	45.9241	45.9241
	53 Dibromochloromethane	129	16.754	16.776	(0.951)	165897	45.1754	45.1753
	54 1,2-Dibromoethane	107	16.991	17.013	(1.302)	152772	43.3359	43.3359
*	55 Chlorobenzene-d5	117	17.620	17.642	(1.000)	550124	50.0000	
	56 Chlorobenzene	112	17.670	17.692	(1.003)	479228	42.2386	42.2385(R)
	57 Ethylbenzene	91	17.729	17.761	(1.006)	800435	44.9945	44.9944
	58 1,1,1,2-Tetrachloroethane	131	17.758	17.780	(1.008)	156134	45.9386	45.9386
	59 m,p-Xylenes	106	17.906	17.928	(1.016)	647766	87.1342	87.1341
	60 o-Xylene	106	18.516	18.538	(1.051)	318865	44.0398	44.0398
	61 Styrene	104	18.546	18.568	(1.053)	502517	40.6350	40.6349
	62 Bromoform	173	18.910	18.932	(1.073)	121164	43.9731	43.9731
	63 Isopropylbenzene	105	19.008	19.030	(0.905)	707976	41.8290	41.8290

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT24.D
Report Date: 29-Nov-2004 23:41

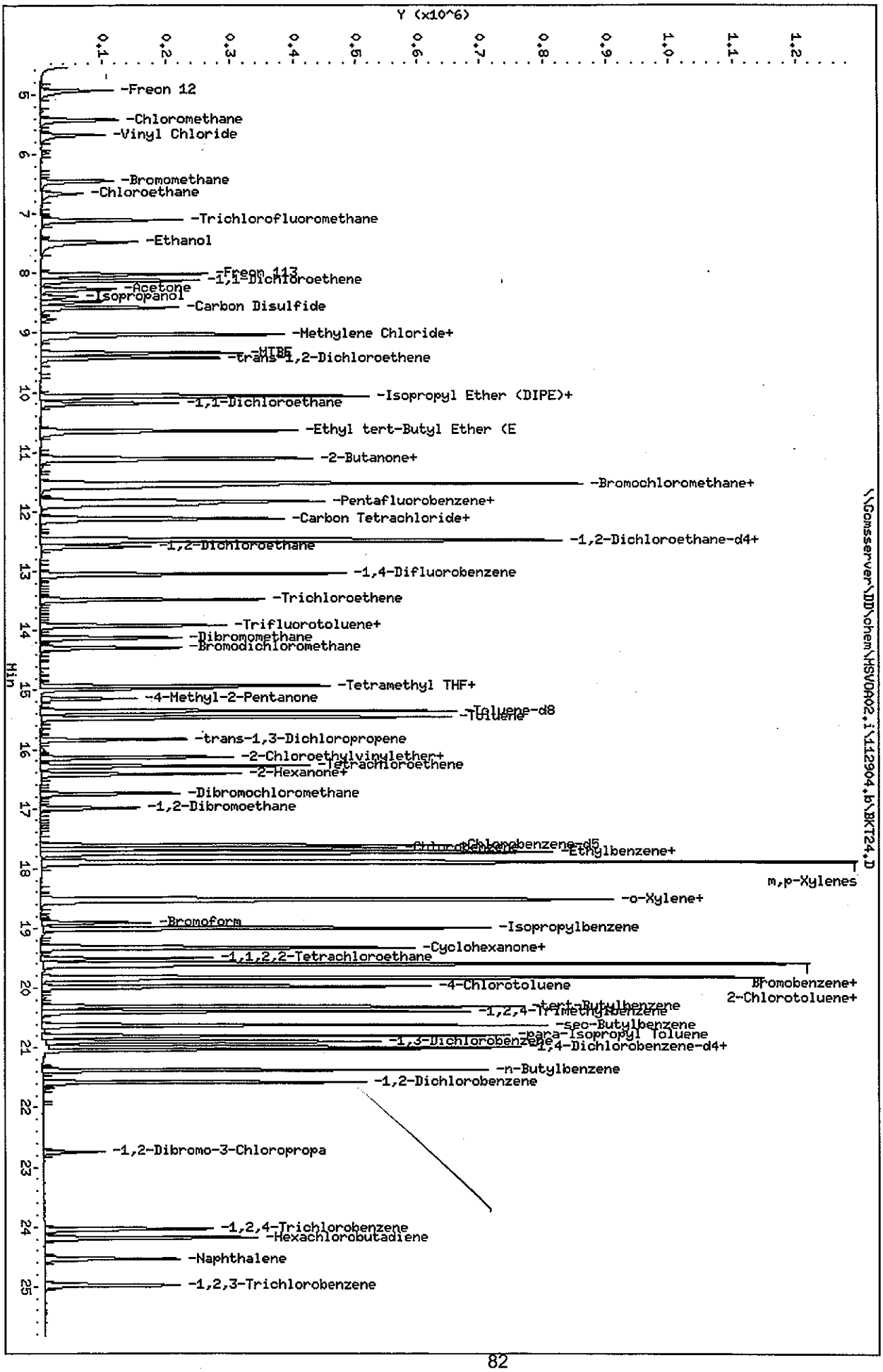
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 Cyclohexanone	55	19.304	19.325	(0.919)	67447	289.059	289.0591
$ 65 Bromofluorobenzene	95	19.333	19.355	(0.921)	279096	49.9439	49.9439
66 1,1,2,2-Tetrachloroethane	83	19.510	19.532	(0.929)	191460	42.7292	42.7292
67 Bromobenzene	156	19.599	19.621	(0.933)	210695	42.2295	42.2295
68 Propylbenzene	91	19.609	19.631	(0.934)	914235	45.1327	45.1326
69 1,2,3-Trichloropropane	110	19.628	19.650	(0.935)	55566	44.2279	44.2279
70 2-Chlorotoluene	91	19.825	19.847	(0.944)	566345	40.8309	40.8309
71 1,3,5-Trimethylbenzene	105	19.845	19.867	(0.945)	588560	43.6648	43.6648
72 4-Chlorotoluene	91	19.983	20.005	(0.952)	511558	39.4096	39.4095
73 tert-Butylbenzene	119	20.317	20.339	(0.968)	566832	47.8620	47.8619
74 1,2,4-Trimethylbenzene	105	20.396	20.418	(0.971)	566001	44.5877	44.5877
75 sec-Butylbenzene	105	20.622	20.644	(0.982)	838347	46.5264	46.5264
76 para-Isopropyl Toluene	119	20.800	20.822	(0.991)	650497	46.3500	46.3500
77 1,3-Dichlorobenzene	146	20.908	20.930	(0.996)	355194	38.5735	38.5734
* 78 1,4-Dichlorobenzene-d4	152	20.996	21.018	(1.000)	287736	50.0000	
79 1,4-Dichlorobenzene	146	21.036	21.058	(1.002)	354734	37.8031	37.8031
80 n-Butylbenzene	91	21.380	21.402	(1.018)	543691	47.8955	47.8955
81 1,2-Dichlorobenzene	146	21.587	21.609	(1.028)	327037	37.7358	37.7358
82 1,2-Dibromo-3-Chloropropane	75	22.748	22.770	(1.083)	31095	37.0638	37.0637
83 1,2,4-Trichlorobenzene	180	24.038	24.070	(1.145)	151280	31.5236	31.5236
84 Hexachlorobutadiene	225	24.185	24.207	(1.152)	116455	40.5262	40.5262
85 Naphthalene	128	24.540	24.562	(1.169)	311823	29.9666	29.9666
86 1,2,3-Trichlorobenzene	180	24.983	25.005	(1.190)	134337	29.2102	29.2102

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Comsserver\DD\chem\HSV0A02.i\112904.b\BKT24.D
Date : 29-NOV-2004 22:19
Client ID: DYNA P&T
Sample Info: MS,QC274118,96931,5,4/5,04WS1940,0.001/5,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSV0A02.i
Operator: AJA
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT25.D
Report Date: 30-Nov-2004 00:15

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT25.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 22:53 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : MSD,QC274119,96931,5.4/5,04WS1940,0.001/5,
Misc Info : 04WS2093,0.001/5,04WS1967,0.001/5, NP
Comment : 8 RA 11/30/04
Method : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\826GOX02.m
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 25 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.932	4.955	(0.417)	202047	33.9478	33.9478
2 Chloromethane	50	5.425	5.448	(0.458)	224407	31.0639	31.0638
3 Vinyl Chloride	62	5.671	5.704	(0.479)	192373	37.3752	37.3752
4 Bromomethane	94	6.458	6.481	(0.546)	123888	38.5331	38.5330
5 Chloroethane	64	6.665	6.688	(0.563)	107114	39.4402	39.4401
6 Trichlorofluoromethane	101	7.108	7.141	(0.601)	288483	46.6252	46.6251
7 Ethanol	45	7.472	7.505	(0.631)	347576	4822.58	4822.5844
8 Freon 113	101	8.023	8.056	(0.678)	174286	50.9592	50.9591
9 1,1-Dichloroethene	96	8.131	8.154	(0.687)	153781	47.6752	47.6752(R)
10 Acetone	43	8.269	8.302	(0.699)	232654	163.252	163.2524
11 Isopropanol	45	8.397	8.420	(0.710)	123105	374.135	374.1348
12 Carbon Disulfide	76	8.584	8.617	(0.725)	438231	36.2749	36.2749
13 Methylene Chloride	84	9.037	9.060	(0.764)	255305	54.5699	54.5698
14 tert-Butyl Alcohol (TBA)	59	9.066	9.099	(0.766)	126879	269.298	269.2983
15 MTBE	73	9.342	9.375	(0.790)	478272	50.2722	50.2722
16 trans-1,2-Dichloroethene	96	9.430	9.454	(0.797)	174385	45.7656	45.7656

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT25.D
Report Date: 30-Nov-2004 00:15

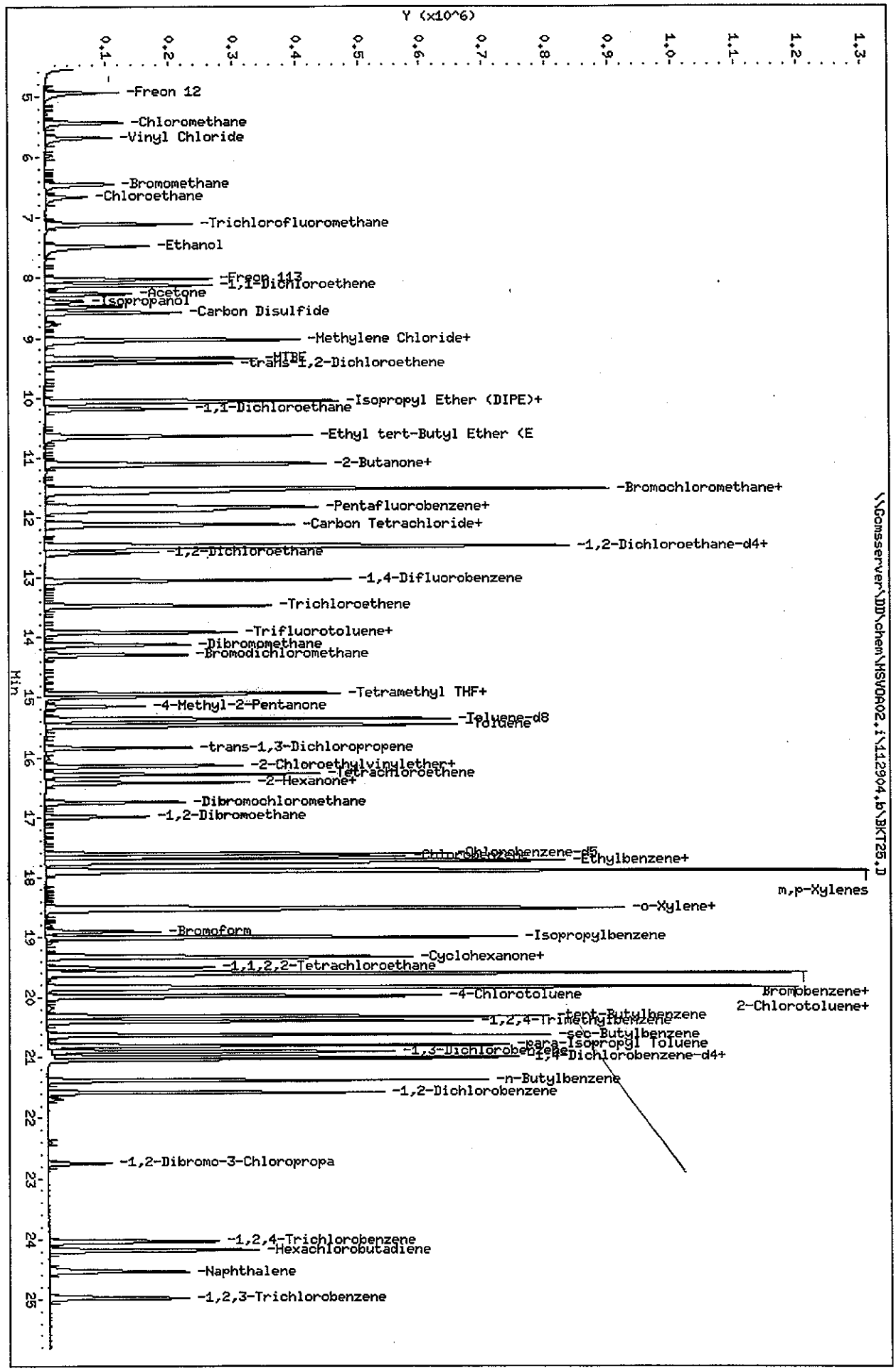
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 Isopropyl Ether (DIPE)	45	10.070	10.093	(0.851)	599936	48.1323	48.1323
	18 Vinyl Acetate	43	10.070	10.172	(0.851)	242511	30.5971	30.5970
	19 1,1-Dichloroethane	63	10.188	10.221	(0.861)	300056	46.2909	46.2908
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.651	10.674	(0.900)	527140	50.6461	50.6461
	21 2-Butanone	43	11.104	11.137	(0.938)	78569	37.7133	37.7133
	22 2,2-Dichloropropane	77	11.104	11.127	(0.938)	208032	48.0112	48.0111
	23 cis-1,2-Dichloroethene	96	11.123	11.156	(0.940)	190462	46.9485	46.9485
	24 Bromochloromethane	128	11.537	11.560	(0.975)	108478	49.2616	49.2615
	25 Tetrahydrofuran	42	11.537	11.560	(0.975)	595296	490.237	490.2369
	26 Chloroform	83	11.586	11.609	(0.979)	276280	46.5436	46.5435
*	27 Pentafluorobenzene	168	11.832	11.855	(1.000)	412645	50.0000	
$	28 Dibromofluoromethane	113	11.852	11.885	(1.002)	185759	50.5945	50.5945
	29 1,1,1-Trichloroethane	97	11.891	11.924	(1.005)	217047	50.3242	50.3241
	30 Carbon Tetrachloride	117	12.117	12.140	(0.928)	195745	51.9695	51.9695
	31 1,1-Dichloropropene	75	12.137	12.170	(0.930)	201682	48.1384	48.1384
$	32 1,2-Dichloroethane-d4	65	12.472	12.495	(0.956)	150964	49.2255	49.2254
	33 Benzene	78	12.482	12.514	(0.956)	648588	45.6003	45.6002(R)
	34 Methyl tert-Amyl Ether (TAME)	73	12.501	12.534	(0.958)	485177	50.1415	50.1415
	35 1,2-Dichloroethane	62	12.590	12.623	(0.965)	184772	46.2699	46.2699
*	36 1,4-Difluorobenzene	114	13.052	13.085	(1.000)	596919	50.0000	
	37 Trichloroethene	95	13.476	13.509	(1.032)	165934	48.3966	48.3966(R)
$	38 Trifluorotoluene	146	13.879	13.912	(1.063)	1257	2.87847	2.8784
	39 1,2-Dichloropropane	63	13.919	13.951	(1.066)	164088	43.7940	43.7939
	40 Dibromomethane	93	14.125	14.148	(1.082)	114803	47.4370	47.4370
	41 Bromodichloromethane	83	14.293	14.325	(1.095)	209816	48.9037	48.9037
	42 Tetramethyl THF	43	14.942	14.965	(1.145)	340513	47.2001	47.2001
	43 cis-1,3-Dichloropropene	75	14.991	15.014	(1.149)	215484	40.1597	40.1597
	44 4-Methyl-2-Pentanone	43	15.149	15.172	(1.161)	145159	35.8321	35.8320
$	45 Toluene-d8	98	15.365	15.388	(1.177)	614146	49.5910	49.5910
	46 Toluene	92	15.474	15.497	(1.186)	432197	45.2710	45.2709(R)
	47 trans-1,3-Dichloropropene	75	15.848	15.871	(1.214)	175599	37.7499	37.7498
	48 2-Chloroethylvinylether	63	16.143	16.166	(1.237)	25393	46.1652	46.1652
	49 1,1,2-Trichloroethane	85	16.143	16.166	(1.237)	78321	46.7704	46.7704
	50 Tetrachloroethene	166	16.291	16.314	(0.925)	197077	51.4750	51.4749
	51 2-Hexanone	43	16.409	16.432	(0.931)	65487	22.4732	22.4731
	52 1,3-Dichloropropane	76	16.428	16.451	(0.932)	238724	47.1913	47.1913
	53 Dibromochloromethane	129	16.753	16.776	(0.951)	172934	47.5444	47.5443
	54 1,2-Dibromoethane	107	16.989	17.013	(1.302)	158331	44.6215	44.6215
*	55 Chlorobenzene-d5	117	17.619	17.642	(1.000)	544885	50.0000	
	56 Chlorobenzene	112	17.669	17.692	(1.003)	480490	42.7570	42.7569(R)
	57 Ethylbenzene	91	17.728	17.761	(1.006)	816184	46.3209	46.3208
	58 1,1,1,2-Tetrachloroethane	131	17.767	17.780	(1.008)	160631	47.7163	47.7162
	59 m,p-Xylenes	106	17.905	17.928	(1.016)	674415	91.5911	91.5910
	60 o-Xylene	106	18.515	18.538	(1.051)	326945	45.5900	45.5900
	61 Styrene	104	18.545	18.568	(1.053)	510400	41.6692	41.6692
	62 Bromoform	173	18.909	18.932	(1.073)	124541	45.6333	45.6332
	63 Isopropylbenzene	105	19.007	19.030	(0.905)	735526	43.4430	43.4429

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT25.D
Report Date: 30-Nov-2004 00:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 Cyclohexanone	55	19.302	19.325	(0.919)	69833	299.191	299.1913
$ 65 Bromofluorobenzene	95	19.332	19.355	(0.921)	277385	49.6220	49.6219
66 1,1,2,2-Tetrachloroethane	83	19.509	19.532	(0.929)	195786	43.6808	43.6808
67 Bromobenzene	156	19.598	19.621	(0.933)	215351	43.1490	43.1489
68 Propylbenzene	91	19.608	19.631	(0.934)	927192	45.7578	45.7578
69 1,2,3-Trichloropropane	110	19.627	19.650	(0.935)	56160	44.6866	44.6865
70 2-Chlorotoluene	91	19.824	19.847	(0.944)	591145	42.6054	42.6054
71 1,3,5-Trimethylbenzene	105	19.844	19.867	(0.945)	609847	45.2298	45.2297
72 4-Chlorotoluene	91	19.982	20.005	(0.952)	530646	40.8672	40.8671
73 tert-Butylbenzene	119	20.316	20.339	(0.968)	574063	48.4571	48.4571
74 1,2,4-Trimethylbenzene	105	20.395	20.418	(0.971)	576373	45.3904	45.3903
75 sec-Butylbenzene	105	20.621	20.644	(0.982)	862356	47.8437	47.8437
76 para-Isopropyl Toluene	119	20.799	20.822	(0.991)	644836	45.9322	45.9321
77 1,3-Dichlorobenzene	146	20.907	20.930	(0.996)	361792	39.2776	39.2776
* 78 1,4-Dichlorobenzene-d4	152	20.995	21.018	(1.000)	287827	50.0000	
79 1,4-Dichlorobenzene	146	21.035	21.058	(1.002)	364368	38.8175	38.8174
80 n-Butylbenzene	91	21.379	21.402	(1.018)	538084	47.3865	47.3865
81 1,2-Dichlorobenzene	146	21.586	21.609	(1.028)	334023	38.5297	38.5296
82 1,2-Dibromo-3-Chloropropane	75	22.747	22.770	(1.083)	33901	40.3955	40.3954
83 1,2,4-Trichlorobenzene	180	24.047	24.070	(1.145)	154309	32.1446	32.1445
84 Hexachlorobutadiene	225	24.184	24.207	(1.152)	114484	39.8275	39.8274
85 Naphthalene	128	24.539	24.562	(1.169)	320168	30.7588	30.7588
86 1,2,3-Trichlorobenzene	180	24.982	25.005	(1.190)	138236	30.0485	30.0484

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\Comsserver\DD\chem\MSVOA02.i\112904.b\BKT25.D
Date : 29-NOV-2004 22:53
Client ID: DYNA P&T
Sample Info: MSD,QC274119,96931,5,4/5,04W31940,0,001/5,
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSVOA02.i
Operator: AJA
Column diameter: 0.32
\\Comsserver\DD\chem\MSVOA02.i\112904.b\BKT25.D
Y (x10^6)
Min
-Freon 12
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Freon 113
-1,1-Dichloroethene
-Acetone
-Isopropanol
-Carbon Disulfide
-Methylene Chloride+
-MTBE
-trans-1,2-Dichloroethene
-Isopropyl Ether (DIPE)+
-1,1-Dichloroethane
-Ethyl tert-Butyl Ether (E
-2-Butanone+
-Bromochloromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane
-Bromodichloromethane
-Tetramethyl THF+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-2-Chloroethylvinylether+
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Chlorobenzene
-Ethylbenzene+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone+
-1,1,2,2-Tetrachloroethane
-4-Chlorotoluene
Bromobenzene+
2-Chlorotoluene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Curtis & Tompkins, Ltd.

Initial Calibration Data

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\102804.b\BJS11.D MS VOA 2 8260/60X S 1GAL TUNE

Date : 28-OCT-2004 17:12

Client ID: bfb tune std

Instrument: MSVOA02.i

Sample Info: BFB,04WS1238

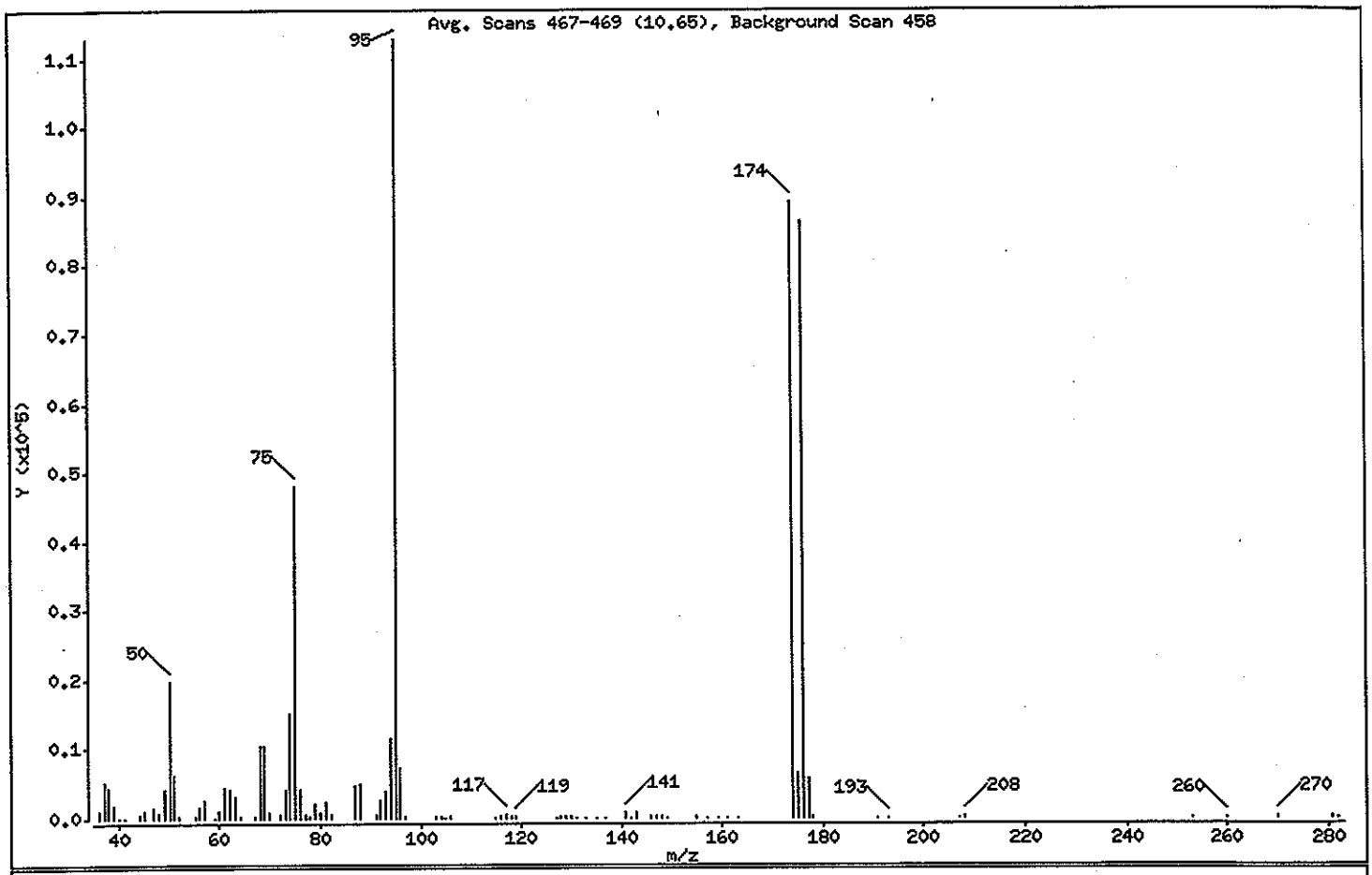
Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.44
75	30.00 - 60.00% of mass 95	42.57
96	5.00 - 9.00% of mass 95	6.51
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	79.19
175	5.00 - 9.00% of mass 174	5.65 (7.14)
176	95.01 - 100.99% of mass 174	76.65 (96.79)
177	5.00 - 9.00% of mass 176	5.07 (6.61)

10/28/04

11/01/04

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\102804.b\BJS11.D

Date : 28-OCT-2004 17:12

Client ID: bfb tune std

Instrument: MSVOA02.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00

Data File: BJS11.D

Spectrum: Avg. Scans 467-469 (10.65), Background Scan 458

Location of Maximum: 95.00

Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1086	67.00	294	97.00	314	148.00	275
37.00	5235	68.00	10378	103.00	133	149.00	50
38.00	4517	69.00	10442	104.00	333	155.00	203
39.00	1719	70.00	765	105.00	124	157.00	76
40.00	91	72.00	548	106.00	313	159.00	110
41.00	55	73.00	4154	115.00	59	161.00	57
44.00	405	74.00	15015	116.00	293	163.00	72
45.00	921	75.00	48008	117.00	541	174.00	89304
47.00	1521	76.00	4263	118.00	287	175.00	6376
48.00	736	77.00	630	119.00	370	176.00	86440
49.00	4130	78.00	374	127.00	50	177.00	5714
50.00	19664	79.00	2161	128.00	352	178.00	211
51.00	6137	80.00	688	129.00	183	191.00	15
52.00	287	81.00	2318	130.00	342	193.00	26
55.00	191	82.00	514	131.00	115	207.00	28
56.00	1432	87.00	4751	133.00	75	208.00	259
57.00	2667	88.00	4928	135.00	38	253.00	9
59.00	50	91.00	401	137.00	123	260.00	75
60.00	962	92.00	2526	141.00	807	270.00	176
61.00	4280	93.00	3884	142.00	51	281.00	141
62.00	4235	94.00	11336	143.00	753	282.00	128
63.00	3099	95.00	112768	146.00	207		
64.00	263	96.00	7337	147.00	190		

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\102804.b\BJS11.D

Date : 28-OCT-2004 17:12

Client ID: bfb tune std

Instrument: MSVOA02.i

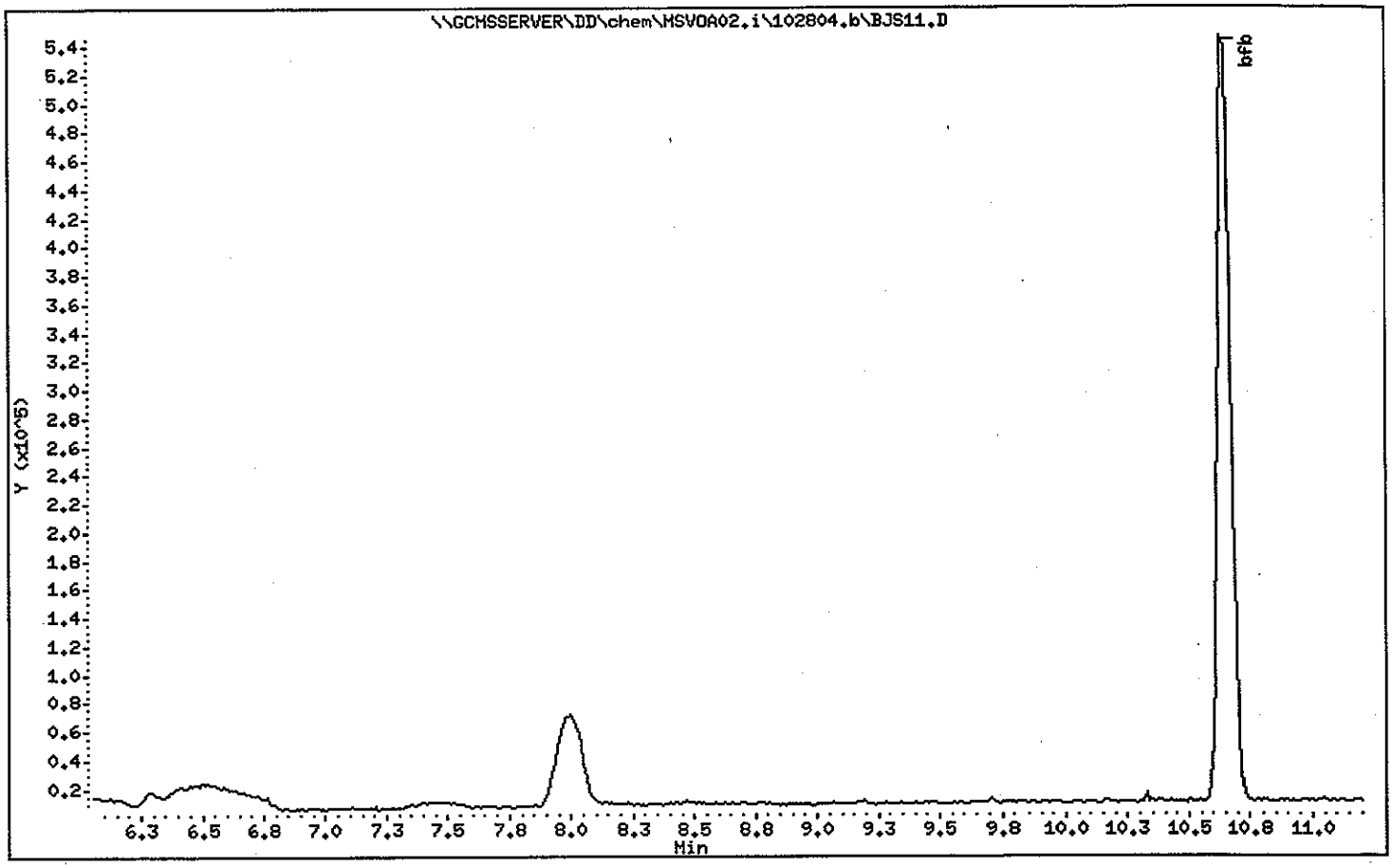
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00



Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT06.D

Date : 29-NOV-2004 12:07

Client ID: bfb tune std

Instrument: MSVOA02.i

Sample Info: BFB,04WS1238

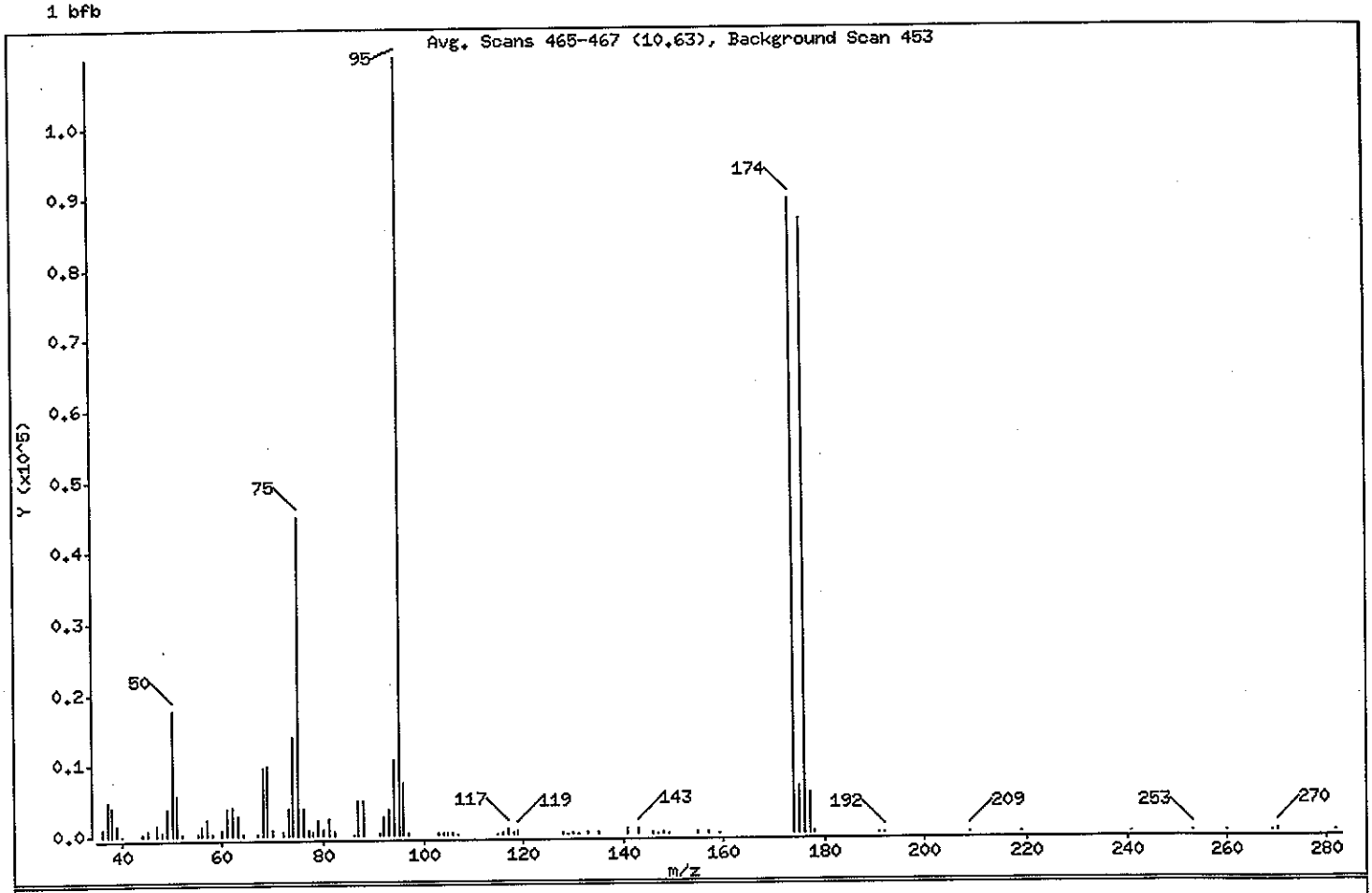
Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.02
75	30.00 - 60.00% of mass 95	40.86
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	81.56
175	5.00 - 9.00% of mass 174	5.95 (7.29)
176	95.01 - 100.99% of mass 174	79.10 (96.98)
177	5.00 - 9.00% of mass 176	5.10 (6.44)

11/29/04

4/30/05

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT06.D

Date : 29-NOV-2004 12:07

Client ID: bfb tune std

Instrument: MSVOA02.i

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00

Data File: BKT06.D
Spectrum: Avg. Scans 465-467 (10.63), Background Scan 453
Location of Maximum: 95.00
Number of points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	961	67.00	286	95.00	109728	147.00	8
37.00	4732	68.00	9642	96.00	7279	148.00	292
38.00	4005	69.00	9743	97.00	127	149.00	50
39.00	1537	70.00	722	103.00	208	155.00	225
40.00	121	72.00	525	104.00	373	157.00	162
44.00	322	73.00	3693	105.00	133	159.00	63
45.00	745	74.00	13979	106.00	364	174.00	89496
47.00	1569	75.00	44832	107.00	50	175.00	6526
48.00	606	76.00	3769	115.00	92	176.00	86800
49.00	3876	77.00	716	116.00	354	177.00	5594
50.00	17576	78.00	546	117.00	634	178.00	225
51.00	5631	79.00	1975	118.00	319	191.00	27
52.00	233	80.00	661	119.00	467	192.00	52
55.00	283	81.00	2319	128.00	331	209.00	75
56.00	1380	82.00	461	129.00	63	219.00	54
57.00	2298	86.00	50	130.00	302	253.00	109
58.00	129	87.00	4753	131.00	76	260.00	72
60.00	815	88.00	4696	133.00	148	269.00	86
61.00	3876	91.00	187	135.00	300	270.00	130
62.00	3919	92.00	2418	141.00	703	282.00	114
63.00	2735	93.00	3586	143.00	761		
64.00	260	94.00	10503	146.00	192		

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT06.D

Date : 29-NOV-2004 12:07

Client ID: bfb tune std

Instrument: MSVOA02.i

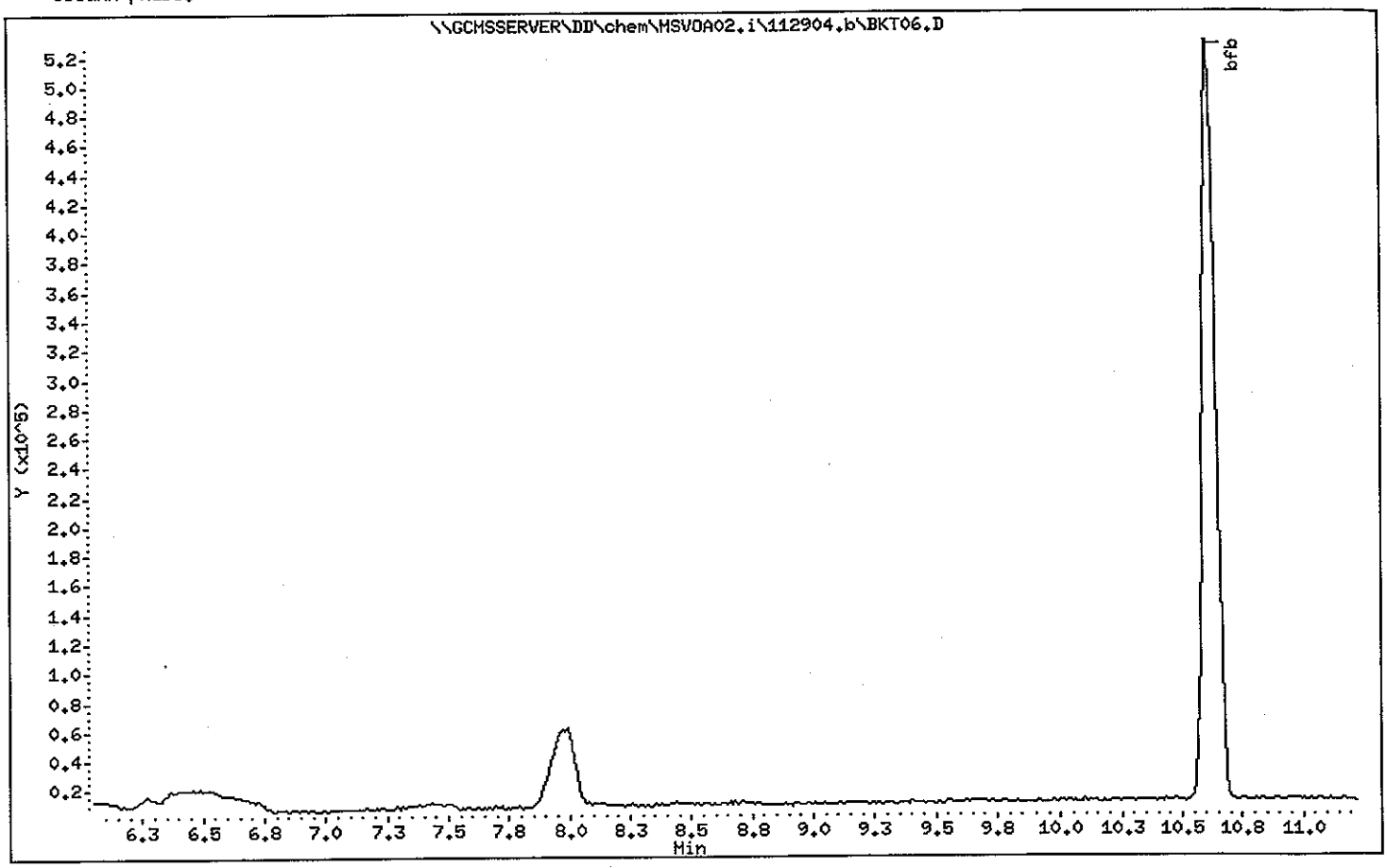
Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

Operator: AJA

Column phase:

Column diameter: 2.00



INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414435400002 Name: 826GOX02 Type: SOIL Date: 28-OCT-2004 19:43 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	bjs16	414435400016	5PPB	28-OCT-2004 19:43	04WS1783 (50000X), 04SS379 (100000X), 04WS1749 (5000X)
2	bjs17	414435400017	10PPB	28-OCT-2004 20:16	04WS1783 (25000X), 04SS379 (50000X), 04WS1749 (5000X)
3	bjs18	414435400018	20PPB	28-OCT-2004 20:50	04WS1783 (12500X), 04SS379 (25000X), 04WS1749 (5000X)
4	bjs19	414435400019	50PPB	28-OCT-2004 21:23	04WS1783 (5000X), 04SS379 (10000X), 04WS1749 (5000X)
5	bjs20	414435400020	60PPB	28-OCT-2004 21:57	04WS1783 (4167X), 04SS379 (8333X), 04WS1749 (5000X)
6	bjs21	414435400021	75PPB	28-OCT-2004 22:31	04WS1783 (3333X), 04SS379 (6667X), 04WS1749 (5000X)
7	bjs22	414435400022	100PPB	28-OCT-2004 23:04	04WS1783 (2500X), 04SS379 (5000X), 04WS1749 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.5493	0.4552	0.4600	0.7680	0.7980	0.8004	0.7653	LINR	R	4.276050	1.211985		ug/L	0.6566	0.994	0.0500	0.99	15	
Chloromethane	0.9989	0.8457	0.7874	0.8808	0.8696	0.8781	0.8667	AVRG	R		1.142421		ug/L	0.8753	7	0.1000	0.99	15	
Vinyl Chloride	0.6601	0.5087	0.4984	0.6668	0.6760	0.6734	0.6822	AVRG	R		1.603417		ug/L	0.6237	13	0.0500	0.99	15	
Bromomethane	0.4556	0.3475	0.3382	0.3829	0.3975	0.4032	0.4020	AVRG	R		2.566913		ug/L	0.3896	10	0.0500	0.99	15	
Chloroethane	0.3605	0.2969	0.2847	0.3350	0.3393	0.3456	0.3415	AVRG	R		3.038775		ug/L	0.3291	8	0.0500	0.99	15	
Trichlorofluoromethane	0.6112	0.4817	0.4726	0.7616	0.7696	0.7958	0.7815	LINR	R	4.334249	1.209855		ug/L	0.6677	0.996	0.0500	0.99	15	
Acetone		0.2119	0.1911	0.1562	0.1669	0.1624	0.1476	AVRG	R		5.791021		ug/L	0.1727	14	0.0500	0.99	15	
Freon 113	0.2044	0.3085	0.3014	0.4124	0.4324	0.4285	0.4256	LINR	R	3.760903	2.234960		ug/L	0.3590	0.998	0.0500	0.99	15	
1,1-Dichloroethene	0.3415	0.3537	0.3418	0.4154	0.4245	0.4316	0.4274	AVRG	R		2.558555		ug/L	0.3908	11	0.0500	0.99	15	
Methylene Chloride	0.6764	0.5998	0.5661	0.5250	0.5332	0.5358	0.5319	AVRG	R		1.764002		ug/L	0.5669	10	0.0500	0.99	15	
Carbon Disulfide	1.4016	1.3624	1.3093	1.5047	1.5664	1.5592	1.5432	AVRG	R		0.683140		ug/L	1.4638	7	0.0500	0.99	15	
MTBE	1.0718	1.1103	1.1375	1.1821	1.1816	1.2071	1.1790	AVRG	R		0.867480		ug/L	1.1528	4	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4818	0.4480	0.4314	0.4597	0.4664	0.4732	0.4714	AVRG	R		2.165893		ug/L	0.4617	4	0.0500	0.99	15	
Vinyl Acetate	0.9219	0.9300	0.9573	0.9624	1.0057	0.9762	0.9692	AVRG	R		1.041249		ug/L	0.9604	3	0.0500	0.99	15	
1,1-Dichloroethane	0.8337	0.7653	0.7538	0.7761	0.7892	0.7919	0.7879	AVRG	R		1.273208		ug/L	0.7854	3	0.1000	0.99	15	
2-Butanone		0.2584	0.2502	0.2516	0.2574	0.2576	0.2394	AVRG	R		3.961372		ug/L	0.2524	3	0.0500	0.99	15	
2,2-Dichloropropane	0.4969	0.4996	0.4727	0.5452	0.5561	0.5474	0.5573	AVRG	R		1.904664		ug/L	0.5250	7	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.5294	0.4932	0.4657	0.4821	0.4878	0.4988	0.4840	AVRG	R		2.034318		ug/L	0.4916	4	0.0500	0.99	15	
Chloroform	0.7620	0.7055	0.6964	0.7240	0.7187	0.7304	0.6977	AVRG	R		1.390325		ug/L	0.7193	3	0.0500	0.99	15	

ICA2 - GOOD, ICV - Cyclohexane, +A.C.E. limit - F12

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

 NO 2-Clave

11/1/04

11/04/04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414435400002 Name: 826GOX02 Type: SOIL Date: 28-OCT-2004 19:43 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MXRSD	Flags
Bromochloromethane	0.2789	0.2631	0.2541	0.2643	0.2640	0.2716	0.2719	AVRG	R		3.747760		ug/L	0.2668	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.4716	0.4927	0.4747	0.5474	0.5543	0.5593	0.5582	AVRG	R		1.913501		ug/L	0.5226	8	0.0500	0.99	15	
1,1-Dichloropropene	0.2969	0.3234	0.3137	0.3749	0.3800	0.3853	0.3825	AVRG	R		2.849500		ug/L	0.3509	11	0.0500	0.99	15	
Carbon Tetrachloride	0.2456	0.2833	0.2774	0.3503	0.3539	0.3502	0.3478	AVRG	R		3.169583		ug/L	0.3155	14	0.0500	0.99	15	
1,2-Dichloroethane	0.3436	0.3376	0.3383	0.3334	0.3312	0.3277	0.3297	AVRG	R		2.989553		ug/L	0.3345	2	0.0500	0.99	15	
Benzene	1.2764	1.1676	1.1342	1.1941	1.2040	1.1815	1.1820	AVRG	R		0.839351		ug/L	1.1914	4	0.0500	0.99	15	
Trichloroethene	0.2828	0.2833	0.2656	0.2933	0.2977	0.2945	0.2931	AVRG	R		3.481959		ug/L	0.2872	4	0.0500	0.99	15	
1,2-Dichloropropane	0.3189	0.3104	0.3039	0.3158	0.3178	0.3129	0.3172	AVRG	R		3.186266		ug/L	0.3138	2	0.0500	0.99	15	
Bromodichloromethane	0.3705	0.3550	0.3479	0.3590	0.3663	0.3597	0.3572	AVRG	R		2.782578		ug/L	0.3594	2	0.0500	0.99	15	
Dibromomethane	0.2077	0.1962	0.2019	0.2004	0.2074	0.2045	0.2009	AVRG	R		4.932982		ug/L	0.2027	2	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.3306	0.3281	0.3456	0.3517	0.3424	0.3375	AVRG	R		2.946942		ug/L	0.3393	3	0.0500	0.99	15	
Tetramethyl THF	0.5854	0.5929	0.6102	0.6124	0.6117	0.6069	0.6107	AVRG	R		1.654833		ug/L	0.6043	2	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4422	0.4406	0.4394	0.4507	0.4594	0.4544	0.4594	AVRG	R		2.224949		ug/L	0.4494	2	0.0500	0.99	15	
Toluene	0.8345	0.7723	0.7417	0.8159	0.8203	0.8062	0.8068	AVRG	R		1.250497		ug/L	0.7997	4	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.3819	0.3888	0.3786	0.3880	0.3981	0.3959	0.3961	AVRG	R		2.566475		ug/L	0.3896	2	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1429	0.1391	0.1370	0.1394	0.1424	0.1418	0.1394	AVRG	R		7.129135		ug/L	0.1403	2	0.0500	0.99	15	
2-Hexanone		0.2525	0.2580	0.2697	0.2777	0.2794	0.2669	AVRG	R		3.739737		ug/L	0.2674	4	0.0500	0.99	15	
1,3-Dichloropropane	0.4674	0.4612	0.4696	0.4603	0.4717	0.4627	0.4564	AVRG	R		2.154277		ug/L	0.4642	1	0.0500	0.99	15	
Tetrachloroethene	0.3083	0.3136	0.3162	0.3718	0.3788	0.3840	0.3866	AVRG	R		2.846390		ug/L	0.3513	10	0.0500	0.99	15	
Dibromochloromethane	0.3100	0.3214	0.3325	0.3344	0.3432	0.3489	0.3459	AVRG	R		2.996073		ug/L	0.3338	4	0.0500	0.99	15	
1,2-Dibromoethane	0.2915	0.2859	0.2928	0.2990	0.3059	0.3043	0.3012	AVRG	R		3.364514		ug/L	0.2972	2	0.0500	0.99	15	
Chlorobenzene	1.0835	1.0083	0.9971	1.0202	1.0428	1.0379	1.0287	AVRG	R		0.969745		ug/L	1.0312	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3235	0.3021	0.3000	0.3063	0.3062	0.3143	0.3100	AVRG	R		3.237214		ug/L	0.3089	3	0.0500	0.99	15	
Ethylbenzene	1.6287	1.5302	1.5159	1.6542	1.6804	1.6618	1.6469	AVRG	R		0.618478		ug/L	1.6169	4	0.0500	0.99	15	
m,p-Xylenes	0.6738	0.6483	0.6530	0.6885	0.6947	0.6943	0.6771	AVRG	R		1.479998		ug/L	0.6757	3	0.0500	0.99	15	
o-Xylene	0.6663	0.6278	0.6542	0.6615	0.6739	0.6717	0.6511	AVRG	R		1.519602		ug/L	0.6581	2	0.0500	0.99	15	
Styrene	1.0866	1.0824	1.1170	1.1316	1.1620	1.1620	1.1263	AVRG	R		0.889692		ug/L	1.1240	3	0.0500	0.99	15	
Bromoform	0.2402	0.2388	0.2457	0.2539	0.2575	0.2610	0.2558	AVRG	R		3.993028		ug/L	0.2504	4	0.1000	0.99	15	
Isopropylbenzene	2.6556	2.7021	2.6458	3.1273	3.1545	3.1336	3.1691	AVRG	R		0.340004		ug/L	2.9411	9	0.0500	0.99	15	
1,1,2,2-Tetrachloroethane	0.8018	0.7776	0.7650	0.7643	0.7782	0.7963	0.7672	AVRG	R		1.284316		ug/L	0.7786	2	0.3000	0.99	15	
1,2,3-Trichloropropane	0.2192	0.2168	0.2183	0.2153	0.2178	0.2270	0.2138	AVRG	R		4.580431		ug/L	0.2183	2	0.0500	0.99	15	
Propylbenzene	3.3164	3.2426	3.2200	3.6728	3.7362	3.7430	3.7089	AVRG	R		0.284092		ug/L	3.5200	7	0.0500	0.99	15	

Curves: AVRG: Average response factor LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA02 HP GCMS VOA 02 Reviewed By:
Calnum: 414435400002 Name: 826GOX02 Type: SOIL Date: 28-OCT-2004 19:43 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	Units	avg	%RSD	MinRF	r^2 MnR^2	MxRSD	Flags
Bromobenzene	0.8927	0.8563	0.8409	0.8615	0.8697	0.8750	0.8728	AVRG	R		1.153414		ug/L	0.8670	2	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.2529	2.1922	2.1729	2.4200	2.4568	2.4762	2.4248	AVRG	R		0.426939		ug/L	2.3423	6	0.0500	0.99	15	
2-Chlorotoluene	2.5155	2.3470	2.3121	2.4275	2.4399	2.4300	2.3999	AVRG	R		0.414891		ug/L	2.4103	3	0.0500	0.99	15	
4-Chlorotoluene	2.3973	2.2174	2.1314	2.2357	2.2849	2.2688	2.2538	AVRG	R		0.443335		ug/L	2.2556	4	0.0500	0.99	15	
tert-Butylbenzene	1.8129	1.8714	1.8518	2.1956	2.2130	2.2175	2.2435	AVRG	R		0.485915		ug/L	2.0580	10	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.1432	2.0501	2.0553	2.2604	2.2754	2.3255	2.3309	AVRG	R		0.453339		ug/L	2.2059	6	0.0500	0.99	15	
sec-Butylbenzene	2.5916	2.8414	2.7534	3.4197	3.4220	3.4613	3.4284	AVRG	R		0.319375		ug/L	3.1311	12	0.0500	0.99	15	
para-Isopropyl Toluene	2.0641	2.2210	2.1634	2.5838	2.6397	2.6782	2.7213	AVRG	R		0.410043		ug/L	2.4388	11	0.0500	0.99	15	
1,3-Dichlorobenzene	1.6568	1.6030	1.5480	1.5885	1.6071	1.5908	1.6065	AVRG	R		0.624954		ug/L	1.6001	2	0.0500	0.99	15	
1,4-Dichlorobenzene	1.7699	1.5918	1.5759	1.5899	1.6236	1.6324	1.6308	AVRG	R		0.613267		ug/L	1.6306	4	0.0500	0.99	15	
n-Butylbenzene	1.6124	1.7567	1.7348	2.0747	2.1730	2.2243	2.2320	AVRG	R		0.506953		ug/L	1.9726	13	0.0500	0.99	15	
1,2-Dichlorobenzene	1.5285	1.4839	1.4747	1.5064	1.5193	1.5250	1.5041	AVRG	R		0.664020		ug/L	1.5060	1	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1621	0.1392	0.1411	0.1470	0.1427	0.1488	0.1396	AVRG	R		6.859342		ug/L	0.1458	6	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8281	0.7967	0.7899	0.8228	0.8588	0.8640	0.8770	AVRG	R		1.199160		ug/L	0.8339	4	0.0500	0.99	15	
Hexachlorobutadiene	0.4216	0.4945	0.4195	0.5326	0.5374	0.5459	0.5439	AVRG	R		2.002629		ug/L	0.4993	11	0.0500	0.99	15	
Naphthalene	1.6714	1.7007	1.7514	1.8520	1.9051	1.8958	1.8811	AVRG	R		0.553036		ug/L	1.8082	5	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.7630	0.7679	0.7575	0.8054	0.8281	0.8272	0.8451	AVRG	R		1.251307		ug/L	0.7992	5	0.0500	0.99	15	
tert-Butyl Alcohol (TBA)	0.0596	0.0530	0.0551	0.0570	0.0605	0.0604	0.0540	AVRG	R		17.51653		ug/L	0.0571	6	0.0050	0.99	15	
Isopropyl Ether (DIPE)	1.4172	1.4719	1.4835	1.5244	1.5666	1.5600	1.5485	AVRG	R		0.662123		ug/L	1.5103	4	0.0500	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.2047	1.2100	1.2185	1.2715	1.3095	1.3063	1.3077	AVRG	R		0.792916		ug/L	1.2612	4	0.0500	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.7708	0.7942	0.7949	0.8330	0.8322	0.8281	0.8205	AVRG	R		1.233794		ug/L	0.8105	3	0.0500	0.99	15	
Cyclohexanone		0.0442	0.0462	0.0436	0.0348	0.0422	0.0324	AVRG	R		24.66305		ug/L	0.0405	14	0.0050	0.99	15	
Ethanol	0.0087	0.0084	0.0089	0.0085	0.0092	0.0091	0.0083	AVRG	R		114.5081		ug/L	0.0087	4	5.0E-4	0.99	15	
Isopropanol	0.0383	0.0390	0.0384	0.0403	0.0425	0.0418	0.0387	AVRG	R		25.08171		ug/L	0.0399	4	0.0050	0.99	15	
Tetrahydrofuran	0.1575	0.1436	0.1484	0.1473	0.1496	0.1490	0.1346	AVRG	R		6.796412		ug/L	0.1471	5	0.0050	0.99	15	
Dibromofluoromethane	0.4478	0.4498	0.4473	0.4459	0.4392	0.4442	0.4399	AVRG	R		2.247805		ug/L	0.4449	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.2593	0.2648	0.2602	0.2608	0.2565	0.2514	0.2452	AVRG	R		3.892792		ug/L	0.2569	3	0.0500	0.99	15	
Trifluorotoluene	0.3516	0.4595	0.4530	0.5598	0.5687	0.5732	0.5692	LINR	R	2.699689	1.696946		ug/L	0.5050	0.999	0.0500	0.99	15	
Toluene-d8	1.0378	1.0395	1.0437	1.0250	1.0497	1.0294	1.0363	AVRG	R		0.963999		ug/L	1.0373	1	0.0500	0.99	15	
Bromofluorobenzene	0.9682	0.9819	0.9765	0.9697	0.9684	0.9719	0.9609	AVRG	R		1.029800		ug/L	0.9711	1	0.0500	0.99	15	

Curves: AVRG: Average response factor LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS16.D
Report Date: 01-Nov-2004 14:24

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS16.D
Lab Smp Id:
Inj Date : 28-OCT-2004 19:43
Operator : AJA
Smp Info : ICAL,04WS1783,0.002/100,04SS379,0.001/100
Misc Info : 5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target
Cal Date : 28-OCT-2004 19:43
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 12-AUG-2004 08:21
Inst ID: MSVOA02.i
Quant Type: ISTD
Cal File: BJS16.D
Calibration Sample, Level: 1
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.954	4.955	(0.418)	17890	5.00000	7.6046
2 Chloromethane	50	5.447	5.447	(0.459)	32535	5.00000	5.7060
3 Vinyl Chloride	62	5.703	5.703	(0.481)	21499	5.00000	5.2919
4 Bromomethane	94	6.480	6.481	(0.547)	14840	5.00000	5.8479
5 Chloroethane	64	6.687	6.687	(0.564)	11740	5.00000	5.4767
6 Trichlorofluoromethane	101	7.140	7.140	(0.602)	19906	5.00000	8.0314
7 Ethanol	45	7.504	7.504	(0.633)	28279	500.000	497.1130
8 Freon 113	101	8.055	8.055	(0.679)	6656	5.00000	6.0445
9 1,1-Dichloroethene	96	8.153	8.154	(0.688)	11122	5.00000	4.3685
10 Acetone	43	8.301	8.301	(0.700)	9580	5.00000	8.5467
11 Isopropanol	45	8.419	8.419	(0.710)	12479	50.0000	48.0498
12 Carbon Disulfide	76	8.606	8.616	(0.726)	45651	5.00000	4.7875
13 Methylene Chloride	84	9.059	9.059	(0.764)	22031	5.00000	5.9660
14 tert-Butyl Alcohol (TBA)	59	9.088	9.099	(0.767)	19414	50.0000	52.2057
15 MTBE	73	9.374	9.374	(0.791)	34907	5.00000	4.6486
16 trans-1,2-Dichloroethene	96	9.453	9.453	(0.797)	15691	5.00000	5.2172
17 Isopropyl Ether (DIPE)	45	10.092	10.093	(0.851)	46158	5.00000	4.6918
18 Vinyl Acetate	43	10.181	10.171	(0.859)	30026	5.00000	4.7996
19 1,1-Dichloroethane	63	10.210	10.221	(0.861)	27153	5.00000	5.3022
20 Ethyl tert-Butyl Ether (ETBE)	59	10.683	10.673	(0.901)	39236	5.00000	4.7760
21 2-Butanone	43	11.136	11.136	(0.939)	10393	5.00000	6.3203
22 2,2-Dichloropropane	77	11.136	11.126	(0.939)	16183	5.00000	4.7318

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS16.D
Report Date: 01-Nov-2004 14:24

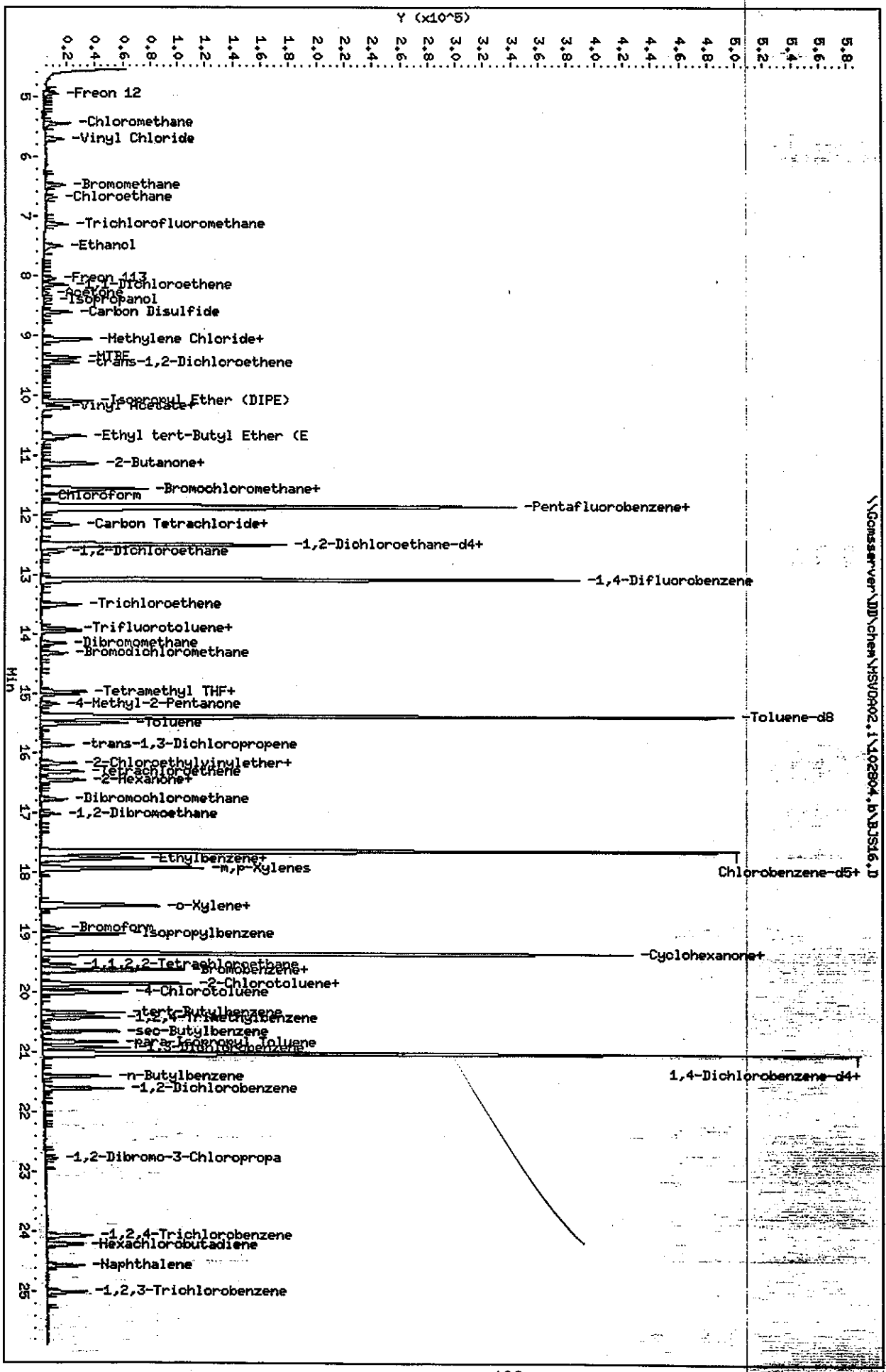
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.155	11.156	(0.941)	17242	5.00000	5.3846
	24 Bromochloromethane	128	11.559	11.559	(0.975)	9084	5.00000	5.2264
	25 Tetrahydrofuran	42	11.559	11.559	(0.975)	51287	50.0000	53.5108
	26 Chloroform	83	11.618	11.608	(0.980)	24819	5.00000	5.2973
*	27 Pentafluorobenzene	168	11.854	11.855	(1.000)	325698	50.0000	
$	28 Dibromofluoromethane	113	11.884	11.884	(1.002)	145851	50.0000	50.3295
	29 1,1,1-Trichloroethane	97	11.923	11.923	(1.006)	15360	5.00000	4.5120
	30 Carbon Tetrachloride	117	12.140	12.140	(0.928)	11501	5.00000	3.8922
	31 1,1-Dichloropropene	75	12.169	12.169	(0.930)	13903	5.00000	4.2299
$	32 1,2-Dichloroethane-d4	65	12.494	12.494	(0.955)	121435	50.0000	50.4736
	33 Benzene	78	12.514	12.514	(0.956)	59772	5.00000	5.3567
	34 Methyl tert-Amyl Ether (TAME)	73	12.533	12.534	(0.958)	36094	5.00000	4.7548
	35 1,2-Dichloroethane	62	12.622	12.622	(0.965)	16091	5.00000	5.1362
*	36 1,4-Difluorobenzene	114	13.084	13.085	(1.000)	468285	50.0000	
	37 Trichloroethene	95	13.508	13.508	(1.032)	13245	5.00000	4.9241
$	38 Trifluorotoluene	146	13.911	13.912	(1.063)	16467	5.00000	5.6833
	39 1,2-Dichloropropane	63	13.951	13.951	(1.066)	14933	5.00000	5.0802
	40 Dibromomethane	93	14.157	14.148	(1.082)	9728	5.00000	5.1238
	41 Bromodichloromethane	83	14.325	14.325	(1.095)	17351	5.00000	5.1550
	42 Tetramethyl THF	43	14.964	14.965	(1.144)	27413	5.00000	4.8436
	43 cis-1,3-Dichloropropene	75	15.014	15.014	(1.147)	20706	5.00000	4.9189
	44 4-Methyl-2-Pentanone	43	15.171	15.171	(1.159)	15655	5.00000	4.9258
$	45 Toluene-d8	98	15.388	15.388	(1.176)	485989	50.0000	50.0222
	46 Toluene	92	15.496	15.496	(1.184)	39077	5.00000	5.2175
	47 trans-1,3-Dichloropropene	75	15.870	15.870	(1.213)	17883	5.00000	4.9004
	48 2-Chloroethylvinylether	63	16.175	16.166	(1.236)	2087	5.00000	4.8363
	49 1,1,2-Trichloroethane	85	16.175	16.166	(1.236)	6692	5.00000	5.0939
	50 Tetrachloroethene	166	16.313	16.313	(0.925)	13568	5.00000	4.3874
	51 2-Hexanone	43	16.441	16.431	(0.932)	10818	5.00000	4.5960
	52 1,3-Dichloropropane	76	16.451	16.451	(0.932)	20570	5.00000	5.0342
	53 Dibromochloromethane	129	16.775	16.776	(0.951)	13645	5.00000	4.6443
	54 1,2-Dibromoethane	107	17.021	17.012	(1.301)	13650	5.00000	4.9035
*	55 Chlorobenzene-d5	117	17.641	17.642	(1.000)	440118	50.0000	
	56 Chlorobenzene	112	17.691	17.691	(1.003)	47687	5.00000	5.2536
	57 Ethylbenzene	91	17.760	17.760	(1.007)	71681	5.00000	5.0365
	58 1,1,1,2-Tetrachloroethane	131	17.789	17.780	(1.008)	14236	5.00000	5.2355
	59 m,p-Xylenes	106	17.927	17.927	(1.016)	59311	10.0000	9.9723
	60 o-Xylene	106	18.537	18.538	(1.051)	29326	5.00000	5.0627
	61 Styrene	104	18.567	18.567	(1.052)	47822	5.00000	4.8335
	62 Bromoform	173	18.931	18.931	(1.073)	10572	5.00000	4.7957
	63 Isopropylbenzene	105	19.029	19.030	(0.905)	61436	5.00000	4.5144
	64 Cyclohexanone	55	19.334	19.325	(0.920)	13115	50.0000	69.9064
$	65 Bromofluorobenzene	95	19.354	19.355	(0.921)	224000	50.0000	49.8543
	66 1,1,2,2-Tetrachloroethane	83	19.531	19.532	(0.929)	18549	5.00000	5.1486
	67 Bromobenzene	156	19.620	19.620	(0.934)	20653	5.00000	5.1483
	68 Propylbenzene	91	19.630	19.630	(0.934)	76725	5.00000	4.7108
	69 1,2,3-Trichloropropane	110	19.659	19.650	(0.935)	5072	5.00000	5.0209
	70 2-Chlorotoluene	91	19.846	19.847	(0.944)	58196	5.00000	5.2182
	71 1,3,5-Trimethylbenzene	105	19.866	19.866	(0.945)	52120	5.00000	4.8092
	72 4-Chlorotoluene	91	20.004	20.004	(0.952)	55461	5.00000	5.3140
	73 tert-Butylbenzene	119	20.338	20.339	(0.968)	41942	5.00000	4.4046
	74 1,2,4-Trimethylbenzene	105	20.427	20.418	(0.972)	49583	5.00000	4.8580
	75 sec-Butylbenzene	105	20.653	20.644	(0.983)	59957	5.00000	4.1385
	76 para-Isopropyl Toluene	119	20.830	20.821	(0.991)	47752	5.00000	4.2317

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS16.D
Report Date: 01-Nov-2004 14:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.929	20.929	(0.996)	38331	5.00000	5.1772
* 78 1,4-Dichlorobenzene-d4	152	21.017	21.018	(1.000)	231349	50.0000	
79 1,4-Dichlorobenzene	146	21.057	21.057	(1.002)	40946	5.00000	5.4270
80 n-Butylbenzene	91	21.401	21.402	(1.018)	37303	5.00000	4.0870
81 1,2-Dichlorobenzene	146	21.608	21.608	(1.028)	35361	5.00000	5.0746
82 1,2-Dibromo-3-Chloropropane	75	22.769	22.770	(1.083)	3750	5.00000	5.5592
83 1,2,4-Trichlorobenzene	180	24.069	24.069	(1.145)	19158	5.00000	4.9651
84 Hexachlorobutadiene	225	24.216	24.207	(1.152)	9753	5.00000	4.2212
85 Naphthalene	128	24.561	24.561	(1.169)	38668	5.00000	4.6217
86 1,2,3-Trichlorobenzene	180	25.004	25.004	(1.190)	17652	5.00000	4.7737

Data File: \\Gcmsserver\DD\chem\HSV0A02.i\102804.b\BJS16.D
Date : 28-OCT-2004 19:43
Client ID: DYNA P&T
Sample Info: ICAL,04WS1783,0.002/100,04SS379,0.001/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSV0A02.i
Operator: AJA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS17.D
Report Date: 01-Nov-2004 14:25

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS17.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 28-OCT-2004 20:16 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1783,0.004/100,04SS379,0.002/100
Misc Info : 10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 20:16 Cal File: BJS17.D
Als bottle: 17 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.959	4.955	(0.418)	30851	10.0000	9.7931
2 Chloromethane	50	5.452	5.447	(0.460)	57315	10.0000	9.6613
3 Vinyl Chloride	62	5.708	5.703	(0.481)	34479	10.0000	8.1572
4 Bromomethane	94	6.495	6.481	(0.548)	23551	10.0000	8.9199
5 Chloroethane	64	6.692	6.687	(0.564)	20120	10.0000	9.0213
6 Trichlorofluoromethane	101	7.145	7.140	(0.602)	32648	10.0000	10.1624
7 Ethanol	45	7.509	7.504	(0.633)	57132	1000.00	965.2924
8 Freon 113	101	8.060	8.055	(0.680)	20905	10.0000	10.6547
9 1,1-Dichloroethene	96	8.168	8.154	(0.689)	23973	10.0000	9.0502
10 Acetone	43	8.306	8.301	(0.700)	14360	10.0000	12.2702
11 Isopropanol	45	8.424	8.419	(0.710)	26440	100.000	97.8502
12 Carbon Disulfide	76	8.611	8.616	(0.726)	92331	10.0000	9.3068
13 Methylene Chloride	84	9.064	9.059	(0.764)	40649	10.0000	10.5801
14 tert-Butyl Alcohol (TBA)	59	9.093	9.099	(0.767)	35910	100.000	92.8125
15 MTBE	73	9.379	9.374	(0.791)	75248	10.0000	9.6315
16 trans-1,2-Dichloroethene	96	9.457	9.453	(0.797)	30364	10.0000	9.7037
17 Isopropyl Ether (DIPE)	45	10.097	10.093	(0.851)	99755	10.0000	9.7457
18 Vinyl Acetate	43	10.176	10.171	(0.858)	63032	10.0000	9.6840
19 1,1-Dichloroethane	63	10.215	10.221	(0.861)	51869	10.0000	9.7442
20 Ethyl tert-Butyl Ether (ETBE)	59	10.678	10.673	(0.900)	82006	10.0000	9.5943
21 2-Butanone	43	11.141	11.136	(0.939)	17514	10.0000	10.2370
22 2,2-Dichloropropane	77	11.131	11.126	(0.939)	33857	10.0000	9.5150

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS17.D
Report Date: 01-Nov-2004 14:25

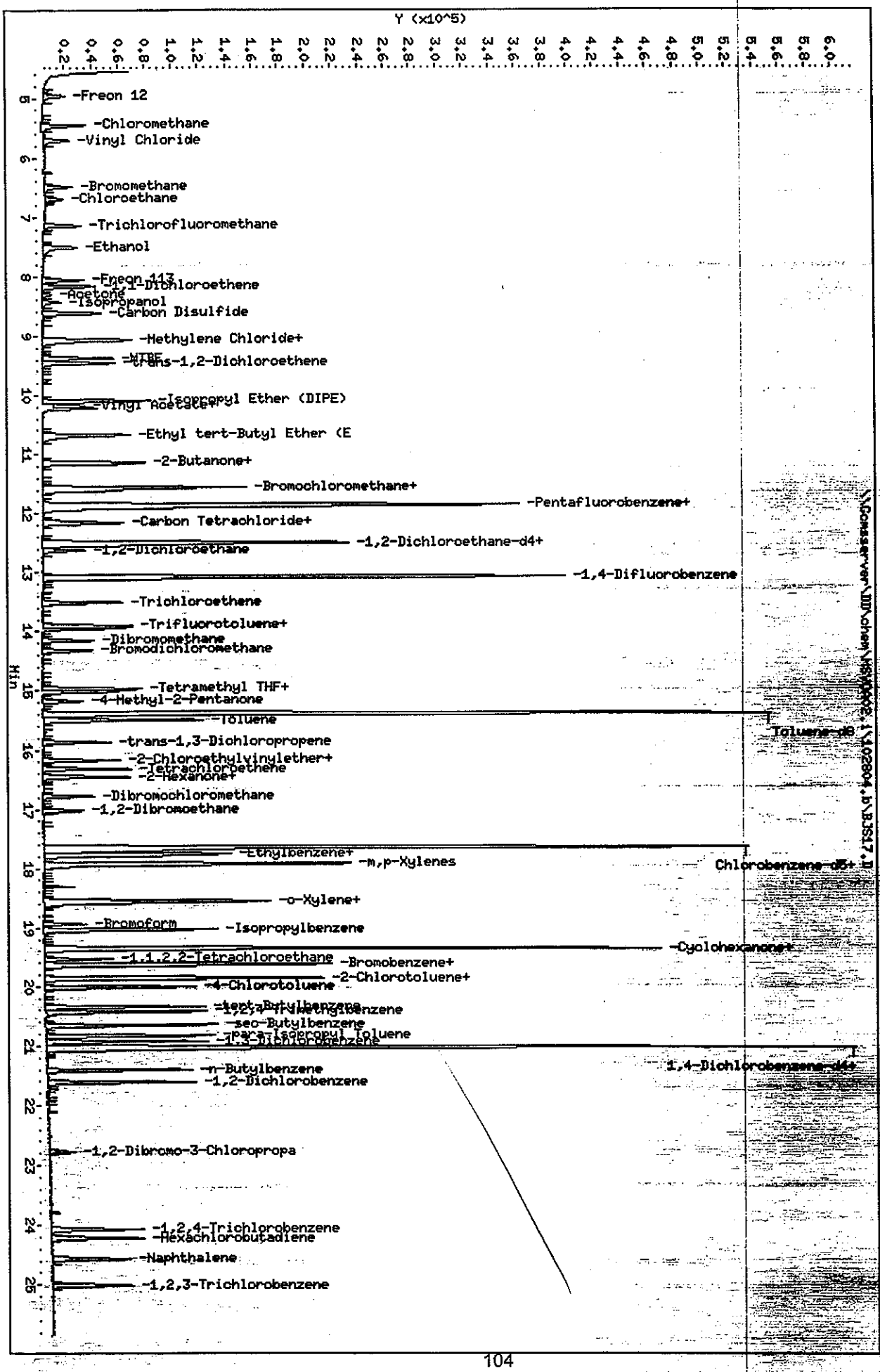
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	11.160	11.156	(0.941)	33423	10.0000	10.0324
24 Bromochloromethane	128	11.564	11.559	(0.975)	17830	10.0000	9.8597
25 Tetrahydrofuran	42	11.564	11.559	(0.975)	97313	100.000	97.5874
26 Chloroform	83	11.613	11.608	(0.979)	47811	10.0000	9.8081
* 27 Pentafluorobenzene	168	11.859	11.855	(1.000)	338865	50.0000	
$ 28 Dibromofluoromethane	113	11.889	11.884	(1.002)	152417	50.0000	50.5516
29 1,1,1-Trichloroethane	97	11.928	11.923	(1.006)	33392	10.0000	9.4278
30 Carbon Tetrachloride	117	12.144	12.140	(0.928)	28059	10.0000	8.9788
31 1,1-Dichloropropene	75	12.164	12.169	(0.929)	32028	10.0000	9.2139
$ 32 1,2-Dichloroethane-d4	65	12.499	12.494	(0.955)	131165	50.0000	51.5496
33 Benzene	78	12.519	12.514	(0.956)	115654	10.0000	9.8005
34 Methyl tert-Amyl Ether (TAME)	73	12.538	12.534	(0.958)	78663	10.0000	9.7984
35 1,2-Dichloroethane	62	12.627	12.622	(0.965)	33441	10.0000	10.0932
* 36 1,4-Difluorobenzene	114	13.089	13.085	(1.000)	495249	50.0000	
37 Trichloroethene	95	13.513	13.508	(1.032)	28061	10.0000	9.8644
$ 38 Trifluorotoluene	146	13.906	13.912	(1.062)	45516	10.0000	10.4976
39 1,2-Dichloropropane	63	13.946	13.951	(1.065)	30748	10.0000	9.8911
40 Dibromomethane	93	14.152	14.148	(1.081)	19438	10.0000	9.6807
41 Bromodichloromethane	83	14.320	14.325	(1.094)	35161	10.0000	9.8776
42 Tetramethyl THF	43	14.969	14.965	(1.144)	58725	10.0000	9.8112
43 cis-1,3-Dichloropropene	75	15.019	15.014	(1.147)	43642	10.0000	9.8032
44 4-Methyl-2-Pentanone	43	15.176	15.171	(1.159)	32748	10.0000	9.7432
$ 45 Toluene-d8	98	15.393	15.388	(1.176)	514832	50.0000	50.1058
46 Toluene	92	15.501	15.496	(1.184)	76496	10.0000	9.6575
47 trans-1,3-Dichloropropene	75	15.875	15.870	(1.213)	38514	10.0000	9.9793
48 2-Chloroethylvinylether	63	16.170	16.166	(1.235)	4977	10.0000	10.9056
49 1,1,2-Trichloroethane	85	16.170	16.166	(1.235)	13773	10.0000	9.9131
50 Tetrachloroethene	166	16.318	16.313	(0.925)	28811	10.0000	8.9274
51 2-Hexanone	43	16.446	16.431	(0.932)	23196	10.0000	9.4434
52 1,3-Dichloropropane	76	16.456	16.451	(0.933)	42368	10.0000	9.9360
53 Dibromochloromethane	129	16.780	16.776	(0.951)	29522	10.0000	9.6288
54 1,2-Dibromoethane	107	17.017	17.012	(1.300)	28318	10.0000	9.6190
* 55 Chlorobenzene-d5	117	17.646	17.642	(1.000)	459297	50.0000	
56 Chlorobenzene	112	17.686	17.691	(1.002)	92622	10.0000	9.7779
57 Ethylbenzene	91	17.755	17.760	(1.006)	140564	10.0000	9.4639
58 1,1,1,2-Tetrachloroethane	131	17.784	17.780	(1.008)	27754	10.0000	9.7807
59 m,p-Xylenes	106	17.922	17.927	(1.016)	119113	20.0000	19.1909
60 o-Xylene	106	18.542	18.538	(1.051)	57669	10.0000	9.5400
61 Styrene	104	18.562	18.567	(1.052)	99427	10.0000	9.6298
62 Bromoform	173	18.926	18.931	(1.073)	21938	10.0000	9.5362
63 Isopropylbenzene	105	19.034	19.030	(0.905)	130380	10.0000	9.1873
64 Cyclohexanone	55	19.330	19.325	(0.919)	21310	100.000	108.9245
$ 65 Bromofluorobenzene	95	19.359	19.355	(0.921)	236879	50.0000	50.5562
66 1,1,2,2-Tetrachloroethane	83	19.536	19.532	(0.929)	37519	10.0000	9.9866
67 Bromobenzene	156	19.615	19.620	(0.933)	41316	10.0000	9.8764
68 Propylbenzene	91	19.625	19.630	(0.934)	156460	10.0000	9.2120
69 1,2,3-Trichloropropane	110	19.654	19.650	(0.935)	10461	10.0000	9.9305
70 2-Chlorotoluene	91	19.851	19.847	(0.944)	113247	10.0000	9.7376
71 1,3,5-Trimethylbenzene	105	19.861	19.866	(0.945)	105776	10.0000	9.3594
72 4-Chlorotoluene	91	20.009	20.004	(0.952)	106992	10.0000	9.8305
73 tert-Butylbenzene	119	20.343	20.339	(0.968)	90297	10.0000	9.0934
74 1,2,4-Trimethylbenzene	105	20.422	20.418	(0.971)	98921	10.0000	9.2940
75 sec-Butylbenzene	105	20.648	20.644	(0.982)	137101	10.0000	9.0747
76 para-Isopropyl Toluene	119	20.826	20.821	(0.991)	107163	10.0000	9.1068

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS17.D
Report Date: 01-Nov-2004 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.924	20.929	(0.995)	77348	10.0000	10.0182
* 78 1,4-Dichlorobenzene-d4	152	21.022	21.018	(1.000)	241254	50.0000	
79 1,4-Dichlorobenzene	146	21.052	21.057	(1.001)	76806	10.0000	9.7620
80 n-Butylbenzene	91	21.406	21.402	(1.018)	84762	10.0000	8.9056
81 1,2-Dichlorobenzene	146	21.613	21.608	(1.028)	71599	10.0000	9.8533
82 1,2-Dibromo-3-Chloropropane	75	22.774	22.770	(1.083)	6716	10.0000	9.5474
83 1,2,4-Trichlorobenzene	180	24.064	24.069	(1.145)	38443	10.0000	9.5541
84 Hexachlorobutadiene	225	24.221	24.207	(1.152)	23862	10.0000	9.9038
85 Naphthalene	128	24.566	24.561	(1.169)	82058	10.0000	9.4052
86 1,2,3-Trichlorobenzene	180	25.009	25.004	(1.190)	37050	10.0000	9.6083

Data File: \\Comsserver\DD\chem\HSVOA02.i\102804.b\BJS17.D
Date : 28-OCT-2004 20:16
Client ID: DYNA P&T
Sample Info: ICAL,04WS1783,0.004/100,04SS379,0.002/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA02.i
Operator: AJA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS18.D
Report Date: 01-Nov-2004 14:25

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS18.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 28-OCT-2004 20:50 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1783,0.008/100,04SS379,0.004/100
Misc Info : 20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 20:50 Cal File: BJS18.D
Als bottle: 18 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

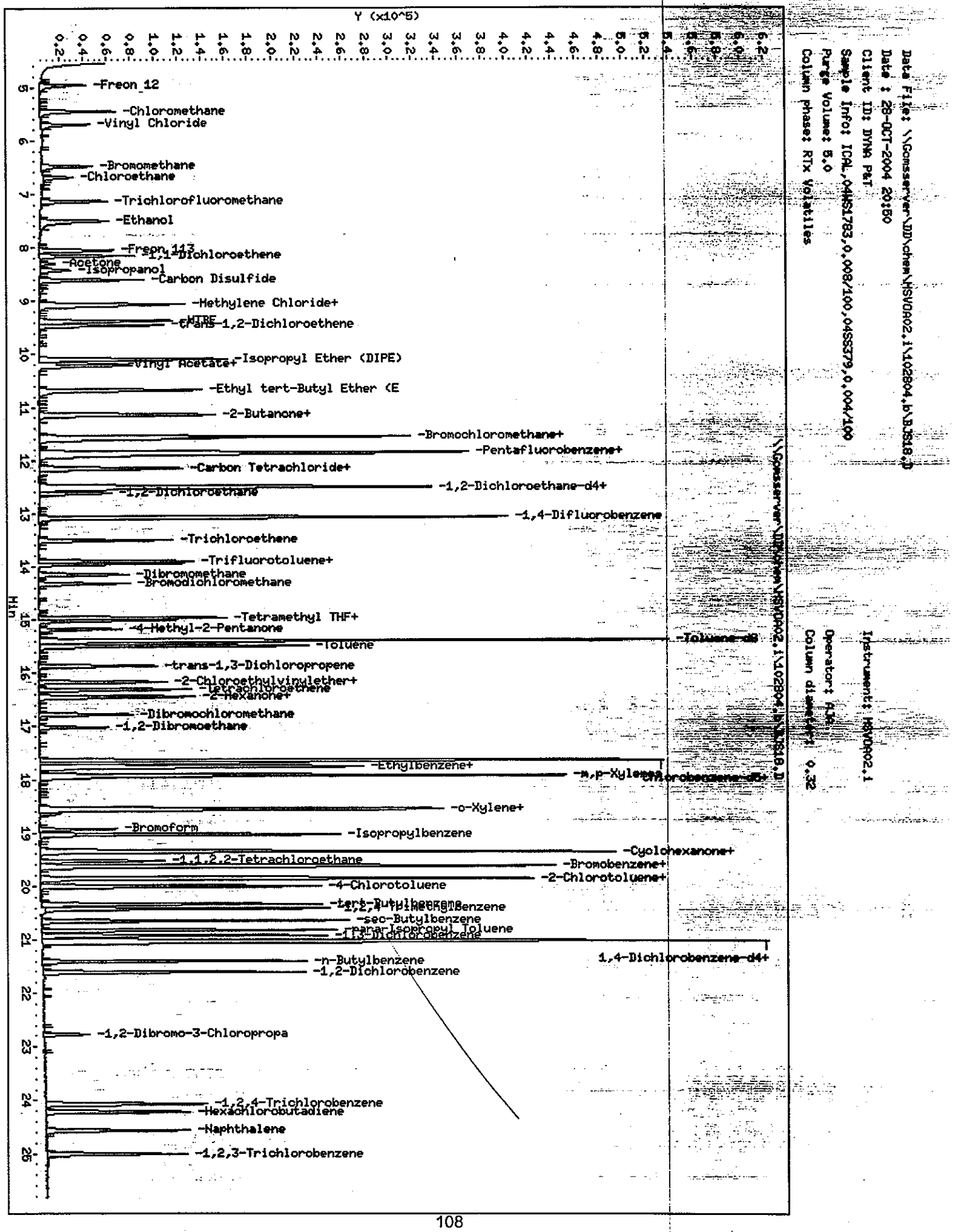
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.958	4.955	(0.418)	63014	20.0000	15.4273
2 Chloromethane	50	5.450	5.447	(0.460)	107858	20.0000	17.9916
3 Vinyl Chloride	62	5.696	5.703	(0.480)	68274	20.0000	15.9843
4 Bromomethane	94	6.484	6.481	(0.547)	46331	20.0000	17.3649
5 Chloroethane	64	6.691	6.687	(0.564)	39001	20.0000	17.3047
6 Trichlorofluoromethane	101	7.133	7.140	(0.602)	64731	20.0000	15.7692
7 Ethanol	45	7.507	7.504	(0.633)	121692	2000.00	2034.6518
8 Freon 113	101	8.049	8.055	(0.679)	41283	20.0000	17.2329
9 1,1-Dichloroethene	96	8.157	8.154	(0.688)	46822	20.0000	17.4918
10 Acetone	43	8.295	8.301	(0.700)	26180	20.0000	22.1368
11 Isopropanol	45	8.423	8.419	(0.710)	52654	200.000	192.8325
12 Carbon Disulfide	76	8.610	8.616	(0.726)	179334	20.0000	17.8880
13 Methylene Chloride	84	9.063	9.059	(0.764)	77544	20.0000	19.9728
14 tert-Butyl Alcohol (TBA)	59	9.092	9.099	(0.767)	75405	200.000	192.8590
15 MTBE	73	9.378	9.374	(0.791)	155810	20.0000	19.7354
16 trans-1,2-Dichloroethene	96	9.456	9.453	(0.797)	59093	20.0000	18.6880
17 Isopropyl Ether (DIPE)	45	10.096	10.093	(0.851)	203196	20.0000	19.6447
18 Vinyl Acetate	43	10.175	10.171	(0.858)	131124	20.0000	19.9355
19 1,1-Dichloroethane	63	10.214	10.221	(0.861)	103257	20.0000	19.1959
20 Ethyl tert-Butyl Ether (ETBE)	59	10.677	10.673	(0.900)	166904	20.0000	19.3234
21 2-Butanone	43	11.130	11.136	(0.939)	34266	20.0000	19.8198
22 2,2-Dichloropropane	77	11.130	11.126	(0.939)	64752	20.0000	18.0079

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS18.D
Report Date: 01-Nov-2004 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.159	11.156	(0.941)	63787	20.0000	18.9471
	24 Bromochloromethane	128	11.563	11.559	(0.975)	34808	20.0000	19.0477
	25 Tetrahydrofuran	42	11.563	11.559	(0.975)	203290	200.000	201.7379
	26 Chloroform	83	11.612	11.608	(0.979)	95394	20.0000	19.3655
*	27 Pentafluorobenzene	168	11.858	11.855	(1.000)	342435	50.0000	
$	28 Dibromofluoromethane	113	11.887	11.884	(1.002)	153155	50.0000	50.2668
	29 1,1,1-Trichloroethane	97	11.927	11.923	(1.006)	65021	20.0000	18.1666
	30 Carbon Tetrachloride	117	12.143	12.140	(0.928)	54969	20.0000	17.5833
	31 1,1-Dichloropropene	75	12.173	12.169	(0.931)	62164	20.0000	17.8767
$	32 1,2-Dichloroethane-d4	65	12.498	12.494	(0.956)	128905	50.0000	50.6420
	33 Benzene	78	12.517	12.514	(0.957)	224767	20.0000	19.0395
	34 Methyl tert-Amyl Ether (TAME)	73	12.537	12.534	(0.959)	157522	20.0000	19.6139
	35 1,2-Dichloroethane	62	12.616	12.622	(0.965)	67040	20.0000	20.2265
*	36 1,4-Difluorobenzene	114	13.078	13.085	(1.000)	495438	50.0000	
	37 Trichloroethene	95	13.502	13.508	(1.032)	52628	20.0000	18.4935
$	38 Trifluorotoluene	146	13.905	13.912	(1.063)	89775	20.0000	18.0742
	39 1,2-Dichloropropane	63	13.944	13.951	(1.066)	60230	20.0000	19.3675
	40 Dibromomethane	93	14.151	14.148	(1.082)	40013	20.0000	19.9200
	41 Bromodichloromethane	83	14.328	14.325	(1.096)	68939	20.0000	19.3594
	42 Tetramethyl THF	43	14.968	14.965	(1.144)	120920	20.0000	20.1944
	43 cis-1,3-Dichloropropene	75	15.017	15.014	(1.148)	87077	20.0000	19.5525
	44 4-Methyl-2-Pentanone	43	15.175	15.171	(1.160)	65029	20.0000	19.3401
$	45 Toluene-d8	98	15.391	15.388	(1.177)	517088	50.0000	50.3062
	46 Toluene	92	15.500	15.496	(1.185)	146993	20.0000	18.5506
	47 trans-1,3-Dichloropropene	75	15.874	15.870	(1.214)	75029	20.0000	19.4333
	48 2-Chloroethylvinylether	63	16.179	16.166	(1.237)	9040	20.0000	19.8010
	49 1,1,2-Trichloroethane	85	16.169	16.166	(1.236)	27144	20.0000	19.5295
	50 Tetrachloroethene	166	16.317	16.313	(0.925)	57405	20.0000	17.9984
	51 2-Hexanone	43	16.435	16.431	(0.931)	46849	20.0000	19.2989
	52 1,3-Dichloropropane	76	16.454	16.451	(0.933)	85266	20.0000	20.2334
	53 Dibromochloromethane	129	16.779	16.776	(0.951)	60377	20.0000	19.9257
	54 1,2-Dibromoethane	107	17.015	17.012	(1.301)	58025	20.0000	19.7023
*	55 Chlorobenzene-d5	117	17.645	17.642	(1.000)	453919	50.0000	
	56 Chlorobenzene	112	17.694	17.691	(1.003)	181036	20.0000	19.3381
	57 Ethylbenzene	91	17.754	17.760	(1.006)	275232	20.0000	18.7505
	58 1,1,1,2-Tetrachloroethane	131	17.783	17.780	(1.008)	54473	20.0000	19.4242
	59 m,p-Xylenes	106	17.931	17.927	(1.016)	237120	40.0000	38.6563
	60 o-Xylene	106	18.541	18.538	(1.051)	118786	20.0000	19.8832
	61 Styrene	104	18.561	18.567	(1.052)	202807	20.0000	19.8753
	62 Bromoform	173	18.925	18.931	(1.073)	44615	20.0000	19.6234
	63 Isopropylbenzene	105	19.033	19.030	(0.905)	260573	20.0000	17.9915
	64 Cyclohexanone	55	19.328	19.325	(0.919)	45537	200.000	228.0692
$	65 Bromofluorobenzene	95	19.358	19.355	(0.921)	240421	50.0000	50.2783
	66 1,1,2,2-Tetrachloroethane	83	19.535	19.532	(0.929)	75344	20.0000	19.6506
	67 Bromobenzene	156	19.614	19.620	(0.933)	82819	20.0000	19.3986
	68 Propylbenzene	91	19.624	19.630	(0.934)	317128	20.0000	18.2956
	69 1,2,3-Trichloropropane	110	19.653	19.650	(0.935)	21500	20.0000	19.9986
	70 2-Chlorotoluene	91	19.850	19.847	(0.944)	227710	20.0000	19.1854
	71 1,3,5-Trimethylbenzene	105	19.860	19.866	(0.945)	214001	20.0000	18.5539
	72 4-Chlorotoluene	91	20.007	20.004	(0.952)	209917	20.0000	18.8988
	73 tert-Butylbenzene	119	20.342	20.339	(0.968)	182381	20.0000	17.9968
	74 1,2,4-Trimethylbenzene	105	20.421	20.418	(0.971)	202423	20.0000	18.6353
	75 sec-Butylbenzene	105	20.647	20.644	(0.982)	271169	20.0000	17.5871
	76 para-Isopropyl Toluene	119	20.824	20.821	(0.991)	213061	20.0000	17.7414

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS18.D
Report Date: 01-Nov-2004 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.923	20.929	(0.995)	152453	20.0000	19.3481
* 78 1,4-Dichlorobenzene-d4	152	21.021	21.018	(1.000)	246215	50.0000	
79 1,4-Dichlorobenzene	146	21.051	21.057	(1.001)	155201	20.0000	19.3285
80 n-Butylbenzene	91	21.405	21.402	(1.018)	170857	20.0000	17.5895
81 1,2-Dichlorobenzene	146	21.612	21.608	(1.028)	145236	20.0000	19.5844
82 1,2-Dibromo-3-Chloropropane	75	22.763	22.770	(1.083)	13900	20.0000	19.3621
83 1,2,4-Trichlorobenzene	180	24.063	24.069	(1.145)	77798	20.0000	18.9452
84 Hexachlorobutadiene	225	24.210	24.207	(1.152)	41315	20.0000	16.8021
85 Naphthalene	128	24.565	24.561	(1.169)	172487	20.0000	19.3716
86 1,2,3-Trichlorobenzene	180	25.007	25.004	(1.190)	74604	20.0000	18.9575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Date : 28-OCT-2004 20:50
Client ID: DYNA P&T
Sample Info: ICAL,04HS1783,0.008/100,04SS379,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: HSV0A02.i
Operator: AJS
Column diameter: 0.32
Y (x10^5)
Min
-Freon 12
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Freon 113
-1,1-Dichloroethene
-Acetone
-Isopropanol
-Carbon Disulfide
-Methylene Chloride+
-MTBE
-trans-1,2-Dichloroethene
-Isopropyl Ether (DIPE)
-Vinyl Acetate+
-Ethyl tert-Butyl Ether (E
-2-Butanone+
-Bromochloromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane
-Bromodichloromethane
-Tetramethyl THF+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-2-Chloroethylvinylether+
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane
-1,2-Dibromoethane
-Ethylbenzene+
-m,p-Xylene+
-Chlorobenzene-d5+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone+
-1,1,2,2-Tetrachloroethane
-Bromobenzene+
-2-Chlorotoluene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyl Toluene
-1,3-Dichlorobenzene
-n-Butylbenzene
1,4-Dichlorobenzene-d4+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS19.D
Report Date: 01-Nov-2004 14:25

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 28-OCT-2004 21:23 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1783,0.001/5,04SS379,0.0005/5
Misc Info : 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 21:23 Cal File: BJS19.D
Als bottle: 19 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

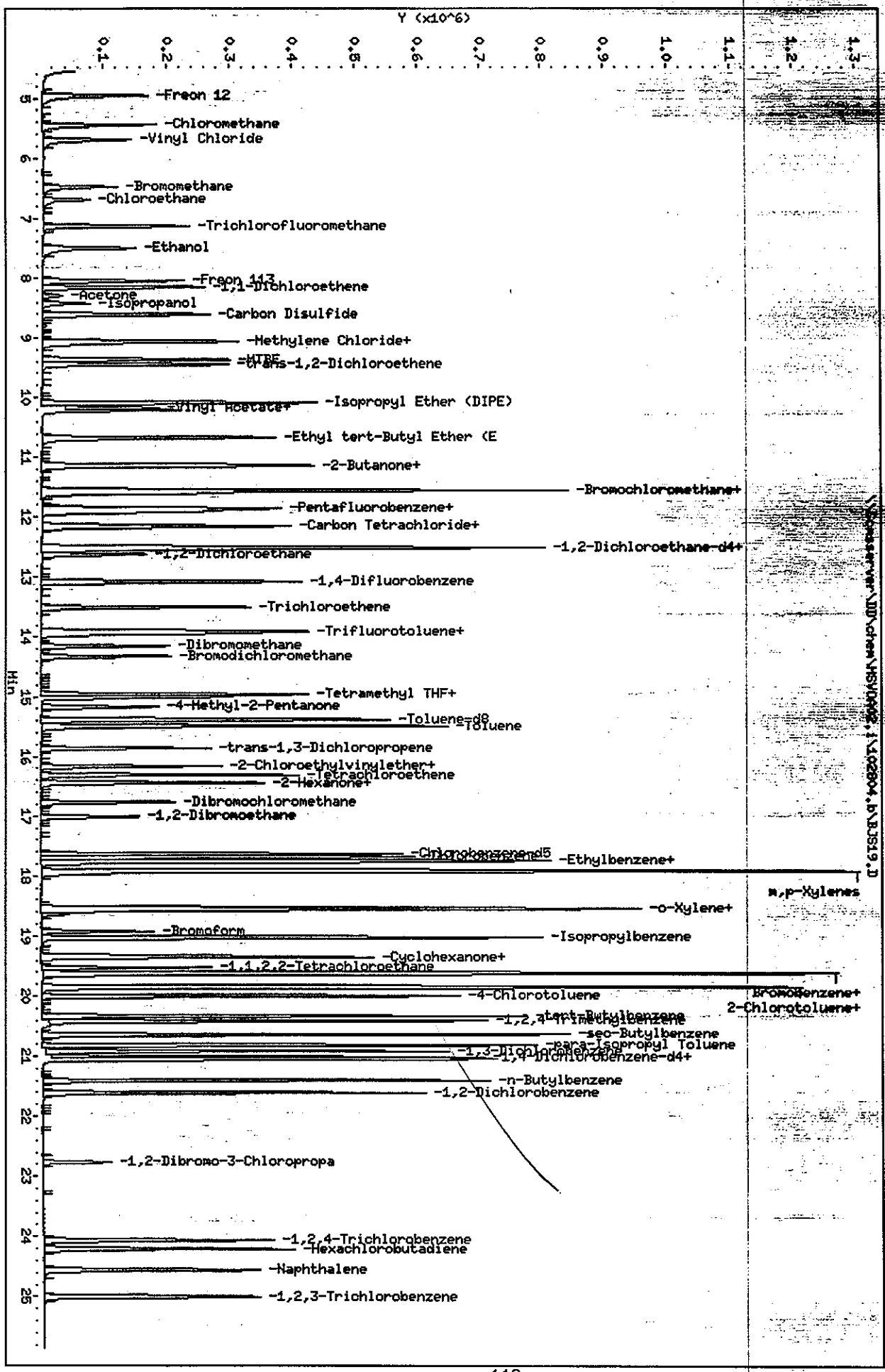
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.957	4.955	(0.418)	277919	50.0000	50.3337
2 Chloromethane	50	5.449	5.447	(0.460)	318768	50.0000	50.3142
3 Vinyl Chloride	62	5.695	5.703	(0.480)	241312	50.0000	53.4583
4 Bromomethane	94	6.473	6.481	(0.546)	138586	50.0000	49.1496
5 Chloroethane	64	6.689	6.687	(0.564)	121252	50.0000	50.9069
6 Trichlorofluoromethane	101	7.132	7.140	(0.602)	275619	50.0000	50.4057
7 Ethanol	45	7.506	7.504	(0.633)	307306	5000.00	4861.7998
8 Freon 113	101	8.057	8.055	(0.680)	149246	50.0000	49.8461
9 1,1-Dichloroethene	96	8.156	8.154	(0.688)	150348	50.0000	53.1474
10 Acetone	43	8.303	8.301	(0.700)	56518	50.0000	45.2201
11 Isopropanol	45	8.422	8.419	(0.710)	145786	500.000	500.9983
12 Carbon Disulfide	76	8.609	8.616	(0.726)	544553	50.0000	51.3972
13 Methylene Chloride	84	9.061	9.059	(0.764)	189995	50.0000	46.3053
14 tert-Butyl Alcohol (TBA)	59	9.101	9.099	(0.768)	206370	500.000	499.4412
15 MTBE	73	9.376	9.374	(0.791)	427800	50.0000	51.2731
16 trans-1,2-Dichloroethene	96	9.455	9.453	(0.797)	166375	50.0000	49.7868
17 Isopropyl Ether (DIPE)	45	10.095	10.093	(0.851)	551683	50.0000	50.4682
18 Vinyl Acetate	43	10.174	10.171	(0.858)	348280	50.0000	50.1040
19 1,1-Dichloroethane	63	10.213	10.221	(0.861)	280862	50.0000	49.4062
20 Ethyl tert-Butyl Ether (ETBE)	59	10.675	10.673	(0.900)	460138	50.0000	50.4086
21 2-Butanone	43	11.138	11.136	(0.939)	91053	50.0000	49.8344
22 2,2-Dichloropropane	77	11.128	11.126	(0.939)	197305	50.0000	51.9213

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS19.D
Report Date: 01-Nov-2004 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.158	11.156	(0.941)	174485	50.0000	49.0418
	24 Bromochloromethane	128	11.561	11.559	(0.975)	95636	50.0000	49.5202
	25 Tetrahydrofuran	42	11.561	11.559	(0.975)	532973	500.000	500.4661
	26 Chloroform	83	11.611	11.608	(0.979)	262024	50.0000	50.3323
*	27 Pentafluorobenzene	168	11.857	11.855	(1.000)	361893	50.0000	
$	28 Dibromofluoromethane	113	11.886	11.884	(1.002)	161377	50.0000	50.1175
	29 1,1,1-Trichloroethane	97	11.925	11.923	(1.006)	198114	50.0000	52.3761
	30 Carbon Tetrachloride	117	12.142	12.140	(0.928)	182788	50.0000	55.5106
	31 1,1-Dichloropropene	75	12.172	12.169	(0.930)	195628	50.0000	53.4104
$	32 1,2-Dichloroethane-d4	65	12.496	12.494	(0.955)	136113	50.0000	50.7677
	33 Benzene	78	12.516	12.514	(0.956)	623125	50.0000	50.1124
	34 Methyl tert-Amyl Ether (TAME)	73	12.536	12.534	(0.958)	434690	50.0000	51.3865
	35 1,2-Dichloroethane	62	12.624	12.622	(0.965)	173973	50.0000	49.8327
*	36 1,4-Difluorobenzene	114	13.087	13.085	(1.000)	521847	50.0000	
	37 Trichloroethene	95	13.500	13.508	(1.032)	153045	50.0000	51.0586
$	38 Trifluorotoluene	146	13.914	13.912	(1.063)	292112	50.0000	50.1942
	39 1,2-Dichloropropane	63	13.953	13.951	(1.066)	164802	50.0000	50.3119
	40 Dibromomethane	93	14.150	14.148	(1.081)	104597	50.0000	49.4373
	41 Bromodichloromethane	83	14.327	14.325	(1.095)	187345	50.0000	49.9477
	42 Tetramethyl THF	43	14.967	14.965	(1.144)	319564	50.0000	50.6685
	43 cis-1,3-Dichloropropene	75	15.016	15.014	(1.147)	235192	50.0000	50.1382
	44 4-Methyl-2-Pentanone	43	15.173	15.171	(1.159)	180368	50.0000	50.9281
$	45 Toluene-d8	98	15.390	15.388	(1.176)	534894	50.0000	49.4050
	46 Toluene	92	15.498	15.496	(1.184)	425749	50.0000	51.0109
	47 trans-1,3-Dichloropropene	75	15.872	15.870	(1.213)	202488	50.0000	49.7924
	48 2-Chloroethylvinylether	63	16.168	16.166	(1.235)	23881	50.0000	49.6613
	49 1,1,2-Trichloroethane	85	16.177	16.166	(1.236)	72729	50.0000	49.6788
	50 Tetrachloroethene	166	16.315	16.313	(0.925)	182159	50.0000	52.9141
	51 2-Hexanone	43	16.433	16.431	(0.931)	132158	50.0000	50.4384
	52 1,3-Dichloropropane	76	16.453	16.451	(0.933)	225530	50.0000	49.5830
	53 Dibromochloromethane	129	16.778	16.776	(0.951)	163842	50.0000	50.0961
	54 1,2-Dibromoethane	107	17.014	17.012	(1.300)	156041	50.0000	50.3023
*	55 Chlorobenzene-d5	117	17.644	17.642	(1.000)	489940	50.0000	
	56 Chlorobenzene	112	17.693	17.691	(1.003)	499821	50.0000	49.4651
	57 Ethylbenzene	91	17.752	17.760	(1.006)	810456	50.0000	51.1541
	58 1,1,1,2-Tetrachloroethane	131	17.782	17.780	(1.008)	150053	50.0000	49.5727
	59 m,p-Xylenes	106	17.929	17.927	(1.016)	674631	100.000	101.8953
	60 o-Xylene	106	18.540	18.538	(1.051)	324095	50.0000	50.2607
	61 Styrene	104	18.569	18.567	(1.052)	554423	50.0000	50.3393
	62 Bromoform	173	18.923	18.931	(1.073)	124414	50.0000	50.6989
	63 Isopropylbenzene	105	19.032	19.030	(0.905)	810245	50.0000	53.1646
	64 Cyclohexanone	55	19.327	19.325	(0.919)	112938	500.000	537.5385
$	65 Bromofluorobenzene	95	19.357	19.355	(0.921)	251225	50.0000	49.9273
	66 1,1,2,2-Tetrachloroethane	83	19.534	19.532	(0.929)	198017	50.0000	49.0791
	67 Bromobenzene	156	19.622	19.620	(0.934)	223202	50.0000	49.6828
	68 Propylbenzene	91	19.632	19.630	(0.934)	951569	50.0000	52.1700
	69 1,2,3-Trichloropropane	110	19.652	19.650	(0.935)	55783	50.0000	49.3095
	70 2-Chlorotoluene	91	19.849	19.847	(0.944)	628943	50.0000	50.3578
	71 1,3,5-Trimethylbenzene	105	19.859	19.866	(0.945)	626985	50.0000	51.6590
	72 4-Chlorotoluene	91	20.006	20.004	(0.952)	579244	50.0000	49.5582
	73 tert-Butylbenzene	119	20.341	20.339	(0.968)	568861	50.0000	53.3444
	74 1,2,4-Trimethylbenzene	105	20.420	20.418	(0.971)	585654	50.0000	51.2373
	75 sec-Butylbenzene	105	20.646	20.644	(0.982)	885993	50.0000	54.6077
	76 para-Isopropyl Toluene	119	20.823	20.821	(0.991)	669432	50.0000	52.9735

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS19.D
Report Date: 01-Nov-2004 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.922	20.929	(0.995)	411570	50.0000	49.6380
* 78 1,4-Dichlorobenzene-d4	152	21.020	21.018	(1.000)	259088	50.0000	
79 1,4-Dichlorobenzene	146	21.049	21.057	(1.001)	411921	50.0000	48.7512
80 n-Butylbenzene	91	21.404	21.402	(1.018)	537526	50.0000	52.5883
81 1,2-Dichlorobenzene	146	21.610	21.608	(1.028)	390290	50.0000	50.0139
82 1,2-Dibromo-3-Chloropropane	75	22.772	22.770	(1.083)	38092	50.0000	50.4241
83 1,2,4-Trichlorobenzene	180	24.071	24.069	(1.145)	213187	50.0000	49.3356
84 Hexachlorobutadiene	225	24.209	24.207	(1.152)	137989	50.0000	53.3295
85 Naphthalene	128	24.563	24.561	(1.169)	479835	50.0000	51.2115
86 1,2,3-Trichlorobenzene	180	25.006	25.004	(1.190)	208679	50.0000	50.3924


Data File: \\Gomsserver\DD\chem\HSVOA02.i\102804.b\BJ519.D
Date : 28-OCT-2004 21:23
Client ID: DYNA P&T
Sample Info: ICAL,04WS1783,0.001/5,04SS379,0.0005/5
Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: HSVOA02.i
Operator: AJA
Column diameter: 0.32
Y (x10^6)
Min
-Freon 12
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Freon 113
-1,1-Dichloroethene
-Acetone
-Isopropanol
-Carbon Disulfide
-Methylene Chloride+
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-Isopropyl Ether (DIPE)
-Ethyl tert-Butyl Ether (E
-2-Butanone+
-Bromochloromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane-d4+
-1,2-Dichloroethane
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane
-Bromodichloromethane
-Tetramethyl THF+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-2-Chloroethylvinylether+
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Ethylbenzene+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone+
-1,1,2,2-Tetrachloroethane
-4-Chlorotoluene
Bromobenzene+
2-Chlorotoluene+
-1,2,4-Trimethylbenzene
-tert-Butylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS20.D
Report Date: 01-Nov-2004 14:25

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS20.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 28-OCT-2004 21:57 MS Autotune Date: 12-AUG-2004 08:21
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Smp Info : ICAL,04WS1783,0.0012/5,04SS379,0.0006/5
Misc Info : 60PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 21:57 Cal File: BJS20.D
Als bottle: 20 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

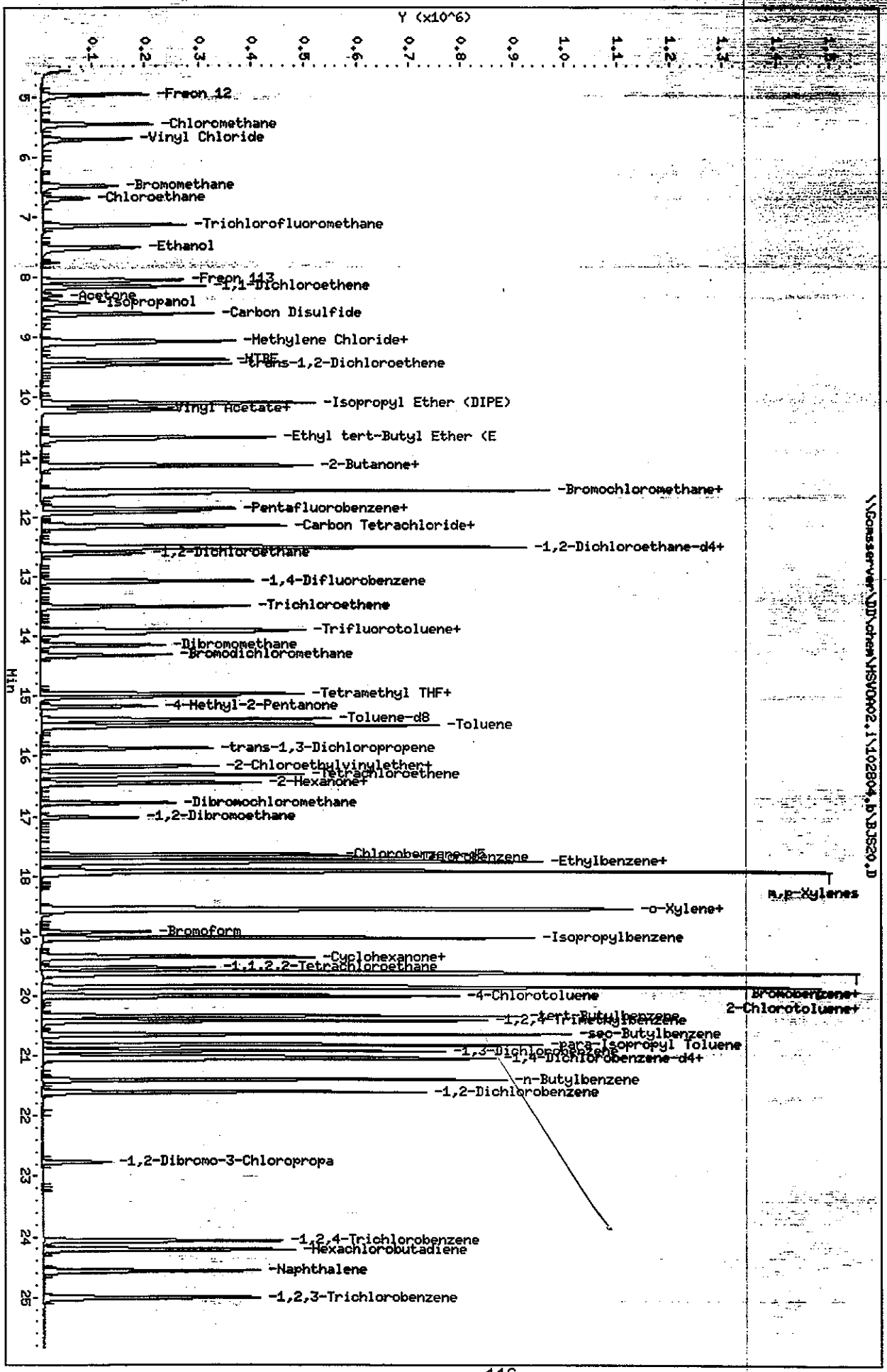
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ug/L)	AMOUNTS ON COL (ug/L)
1 Freon 12	85	4.956	4.955	(0.418)	338505	60.0000	62.3063
2 Chloromethane	50	5.448	5.447	(0.460)	368882	60.0000	59.6082
3 Vinyl Chloride	62	5.694	5.703	(0.480)	286760	60.0000	65.0366
4 Bromomethane	94	6.482	6.481	(0.547)	168601	60.0000	61.2158
5 Chloroethane	64	6.679	6.687	(0.563)	143938	60.0000	61.3681
6 Trichlorofluoromethane	101	7.131	7.140	(0.602)	326440	60.0000	60.1979
7 Ethanol	45	7.505	7.504	(0.633)	390454	6000.00	6326.1033
8 Freon 113	101	8.047	8.055	(0.679)	183440	60.0000	61.7513
9 1,1-Dichloroethene	96	8.155	8.154	(0.688)	180053	60.0000	65.1610
10 Acetone	43	8.303	8.301	(0.700)	70792	60.0000	57.9872
11 Isopropanol	45	8.421	8.419	(0.710)	180350	600.000	639.8322
12 Carbon Disulfide	76	8.608	8.616	(0.726)	664459	60.0000	64.2052
13 Methylene Chloride	84	9.060	9.059	(0.764)	226177	60.0000	56.4339
14 tert-Butyl Alcohol (TBA)	59	9.100	9.099	(0.768)	256620	600.000	635.8159
15 MTBE	73	9.375	9.374	(0.791)	501231	60.0000	61.5021
16 trans-1,2-Dichloroethene	96	9.454	9.453	(0.797)	197860	60.0000	60.6160
17 Isopropyl Ether (DIPE)	45	10.094	10.093	(0.851)	664535	60.0000	62.2371
18 Vinyl Acetate	43	10.173	10.171	(0.858)	426587	60.0000	62.8282
19 1,1-Dichloroethane	63	10.212	10.221	(0.861)	334776	60.0000	60.2901
20 Ethyl tert-Butyl Ether (ETBE)	59	10.675	10.673	(0.900)	555489	60.0000	62.3010
21 2-Butanone	43	11.137	11.136	(0.939)	109190	60.0000	61.1816
22 2,2-Dichloropropane	77	11.127	11.126	(0.939)	235888	60.0000	63.5502

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS20.D
Report Date: 01-Nov-2004 14:25

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.157	11.156	(0.941)	206915	60.0000	59.5393
	24 Bromochloromethane	128	11.560	11.559	(0.975)	111974	60.0000	59.3583
	25 Tetrahydrofuran	42	11.560	11.559	(0.975)	634743	600.000	610.1975
	26 Chloroform	83	11.610	11.608	(0.979)	304870	60.0000	59.9547
*	27 Pentafluorobenzene	168	11.856	11.855	(1.000)	353490	50.0000	
$	28 Dibromofluoromethane	113	11.885	11.884	(1.002)	155264	50.0000	49.3653
	29 1,1,1-Trichloroethane	97	11.925	11.923	(1.006)	235135	60.0000	63.6412
	30 Carbon Tetrachloride	117	12.141	12.140	(0.928)	216449	60.0000	67.3099
	31 1,1-Dichloropropene	75	12.171	12.169	(0.930)	232409	60.0000	64.9745
$	32 1,2-Dichloroethane-d4	65	12.495	12.494	(0.955)	130707	50.0000	49.9208
	33 Benzene	78	12.515	12.514	(0.956)	736304	60.0000	60.6348
	34 Methyl tert-Amyl Ether (TAME)	73	12.535	12.534	(0.958)	508922	60.0000	61.6049
	35 1,2-Dichloroethane	62	12.623	12.622	(0.965)	202522	60.0000	59.4019
*	36 1,4-Difluorobenzene	114	13.086	13.085	(1.000)	509622	50.0000	
	37 Trichloroethene	95	13.509	13.508	(1.032)	182086	60.0000	62.2045
$	38 Trifluorotoluene	146	13.913	13.912	(1.063)	347769	60.0000	60.5999
	39 1,2-Dichloropropane	63	13.952	13.951	(1.066)	194349	60.0000	60.7555
	40 Dibromomethane	93	14.149	14.148	(1.081)	126812	60.0000	61.3750
	41 Bromodichloromethane	83	14.326	14.325	(1.095)	224006	60.0000	61.1545
	42 Tetramethyl THF	43	14.966	14.965	(1.144)	374068	60.0000	60.7332
	43 cis-1,3-Dichloropropene	75	15.015	15.014	(1.147)	280949	60.0000	61.3294
	44 4-Methyl-2-Pentanone	43	15.173	15.171	(1.159)	215084	60.0000	62.1872
$	45 Toluene-d8	98	15.389	15.388	(1.176)	534939	50.0000	50.5944
	46 Toluene	92	15.497	15.496	(1.184)	501673	60.0000	61.5496
	47 trans-1,3-Dichloropropene	75	15.871	15.870	(1.213)	243437	60.0000	61.2978
	48 2-Chloroethylvinylether	63	16.167	16.166	(1.235)	27228	60.0000	57.9797
	49 1,1,2-Trichloroethane	85	16.167	16.166	(1.235)	87089	60.0000	60.9146
	50 Tetrachloroethene	166	16.314	16.313	(0.925)	216077	60.0000	64.6881
	51 2-Hexanone	43	16.432	16.431	(0.931)	158440	60.0000	62.3200
	52 1,3-Dichloropropane	76	16.452	16.451	(0.933)	269104	60.0000	60.9738
	53 Dibromochloromethane	129	16.777	16.776	(0.951)	195769	60.0000	61.6904
	54 1,2-Dibromoethane	107	17.013	17.012	(1.300)	187046	60.0000	61.7436
*	55 Chlorobenzene-d5	117	17.643	17.642	(1.000)	475388	50.0000	
	56 Chlorobenzene	112	17.692	17.691	(1.003)	594882	60.0000	60.6750
	57 Ethylbenzene	91	17.751	17.760	(1.006)	958613	60.0000	62.3575
	58 1,1,1,2-Tetrachloroethane	131	17.781	17.780	(1.008)	174701	60.0000	59.4824
	59 m,p-Xylenes	106	17.928	17.927	(1.016)	792587	120.000	123.3757
	60 o-Xylene	106	18.539	18.538	(1.051)	384418	60.0000	61.4405
	61 Styrene	104	18.568	18.567	(1.052)	662877	60.0000	62.0289
	62 Bromoform	173	18.932	18.931	(1.073)	146885	60.0000	61.6881
	63 Isopropylbenzene	105	19.031	19.030	(0.905)	969991	60.0000	64.3534
	64 Cyclohexanone	55	19.326	19.325	(0.919)	106854	600.000	514.2298
$	65 Bromofluorobenzene	95	19.356	19.355	(0.921)	248144	50.0000	49.8627
	66 1,1,2,2-Tetrachloroethane	83	19.533	19.532	(0.929)	239296	60.0000	59.9690
	67 Bromobenzene	156	19.621	19.620	(0.934)	267432	60.0000	60.1891
	68 Propylbenzene	91	19.621	19.630	(0.934)	1148833	60.0000	63.6846
	69 1,2,3-Trichloropropane	110	19.651	19.650	(0.935)	66970	60.0000	59.8558
	70 2-Chlorotoluene	91	19.848	19.847	(0.944)	750249	60.0000	60.7377
	71 1,3,5-Trimethylbenzene	105	19.858	19.866	(0.945)	755451	60.0000	62.9350
	72 4-Chlorotoluene	91	20.005	20.004	(0.952)	702594	60.0000	60.7793
	73 tert-Butylbenzene	119	20.340	20.339	(0.968)	680469	60.0000	64.5191
	74 1,2,4-Trimethylbenzene	105	20.419	20.418	(0.971)	699676	60.0000	61.8926
	75 sec-Butylbenzene	105	20.645	20.644	(0.982)	1052241	60.0000	65.5746
	76 para-Isopropyl Toluene	119	20.822	20.821	(0.991)	811673	60.0000	64.9427

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS20.D
Report Date: 01-Nov-2004 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.930	20.929	(0.996)	494179	60.0000	60.2631
* 78 1,4-Dichlorobenzene-d4	152	21.019	21.018	(1.000)	256242	50.0000	
79 1,4-Dichlorobenzene	146	21.049	21.057	(1.001)	499230	60.0000	59.7406
80 n-Butylbenzene	91	21.403	21.402	(1.018)	668192	60.0000	66.0980
81 1,2-Dichlorobenzene	146	21.610	21.608	(1.028)	467165	60.0000	60.5300
82 1,2-Dibromo-3-Chloropropane	75	22.771	22.770	(1.083)	43869	60.0000	58.7164
83 1,2,4-Trichlorobenzene	180	24.070	24.069	(1.145)	264079	60.0000	61.7917
84 Hexachlorobutadiene	225	24.208	24.207	(1.152)	165241	60.0000	64.5710
85 Naphthalene	128	24.562	24.561	(1.169)	585785	60.0000	63.2137
86 1,2,3-Trichlorobenzene	180	25.005	25.004	(1.190)	254632	60.0000	62.1722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Date: 28-OCT-2004 21:57
Client ID: DYNA P&T
Sample Info: ICAL 04MS1783,0.0012/5,04SS379,0.0006/5
Purge Volume: 5.0
Column phase: RTX Volatiles
\\Gomsserver\DD\chem\HSVOA02.i\102804.b\BJS20.D
Operator: AJA
Column diameter: 0.32
Instrument: HSVOA02.i
Y (x10^6)
Min
-Freon 12
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Ethanol
-Freon 113
-1,1-Dichloroethene
-Acetone
-Isopropanol
-Carbon Disulfide
-Methylene Chloride+
-MTBE
-trans-1,2-Dichloroethene
-Vinyl Acetate+
-Isopropyl Ether (DIPE)
-Ethyl tert-Butyl Ether (E
-2-Butanone+
-Bromochloromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane
-1,2-Dichloroethane-d4+
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane
-Bromodichloromethane
-Tetramethyl THF+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene
-2-Chloroethylvinylether+
-Tetrachloroethene
-2-Hexanone+
-Dibromochloromethane
-1,2-Dibromoethane
-Chlorobenzene-d5
-Chlorobenzene
-Ethylbenzene+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-Cyclohexanone+
-1,1,2,2-Tetrachloroethane
-4-Chlorotoluene
Bromobenzene+
2-Chlorotoluene+
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-para-Isopropyl Toluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS21.D
Report Date: 01-Nov-2004 14:25

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS21.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 28-OCT-2004 22:31 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1783,0.0015/5,04SS379,0.00075/5
Misc Info : 75PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 22:31 Cal File: BJS21.D
Als bottle: 21 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.950	4.955	(0.418)	443819	75.0000	77.0288
2 Chloromethane	50	5.442	5.447	(0.459)	486937	75.0000	75.2394
3 Vinyl Chloride	62	5.698	5.703	(0.481)	373406	75.0000	80.9793
4 Bromomethane	94	6.476	6.481	(0.546)	223587	75.0000	77.6254
5 Chloroethane	64	6.682	6.687	(0.564)	191660	75.0000	78.7728
6 Trichlorofluoromethane	101	7.135	7.140	(0.602)	441276	75.0000	76.5430
7 Ethanol	45	7.499	7.504	(0.633)	506739	7500.00	7848.1435
8 Freon 113	101	8.050	8.055	(0.679)	237614	75.0000	75.5879
9 1,1-Dichloroethene	96	8.159	8.154	(0.689)	239315	75.0000	82.8154
10 Acetone	43	8.296	8.301	(0.700)	90075	75.0000	70.5514
11 Isopropanol	45	8.424	8.419	(0.711)	232061	750.000	787.2373
12 Carbon Disulfide	76	8.611	8.616	(0.727)	864587	75.0000	79.8849
13 Methylene Chloride	84	9.064	9.059	(0.765)	297125	75.0000	70.8899
14 tert-Butyl Alcohol (TBA)	59	9.094	9.099	(0.767)	335089	750.000	793.8795
15 MTBE	73	9.369	9.374	(0.791)	669347	75.0000	78.5339
16 trans-1,2-Dichloroethene	96	9.458	9.453	(0.798)	262374	75.0000	76.8606
17 Isopropyl Ether (DIPE)	45	10.098	10.093	(0.852)	865039	75.0000	77.4677
18 Vinyl Acetate	43	10.176	10.171	(0.859)	541318	75.0000	76.2348
19 1,1-Dichloroethane	63	10.216	10.221	(0.862)	439115	75.0000	75.6177
20 Ethyl tert-Butyl Ether (ETBE)	59	10.678	10.673	(0.901)	724363	75.0000	77.6836
21 2-Butanone	43	11.131	11.136	(0.939)	142867	75.0000	76.5462
22 2,2-Dichloropropane	77	11.131	11.126	(0.939)	303533	75.0000	78.1935

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS21.D
Report Date: 01-Nov-2004 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	11.151	11.156	(0.941)	276605	75.0000	76.1071
24 Bromochloromethane	128	11.564	11.559	(0.976)	150589	75.0000	76.3328
25 Tetrahydrofuran	42	11.564	11.559	(0.976)	826061	750.000	759.3433
26 Chloroform	83	11.613	11.608	(0.980)	405028	75.0000	76.1636
* 27 Pentafluorobenzene	168	11.850	11.855	(1.000)	369678	50.0000	
$ 28 Dibromofluoromethane	113	11.879	11.884	(1.002)	164225	50.0000	49.9280
29 1,1,1-Trichloroethane	97	11.928	11.923	(1.007)	310136	75.0000	80.2651
30 Carbon Tetrachloride	117	12.145	12.140	(0.928)	285128	75.0000	83.2598
31 1,1-Dichloropropene	75	12.165	12.169	(0.930)	313643	75.0000	82.3374
$ 32 1,2-Dichloroethane-d4	65	12.499	12.494	(0.956)	136429	50.0000	48.9284
33 Benzene	78	12.509	12.514	(0.956)	961799	75.0000	74.3740
34 Methyl tert-Amyl Ether (TAME)	73	12.529	12.534	(0.958)	674116	75.0000	76.6250
35 1,2-Dichloroethane	62	12.617	12.622	(0.965)	266811	75.0000	73.4857
* 36 1,4-Difluorobenzene	114	13.080	13.085	(1.000)	542721	50.0000	
37 Trichloroethene	95	13.503	13.508	(1.032)	239744	75.0000	76.9067
$ 38 Trifluorotoluene	146	13.907	13.912	(1.063)	466659	75.0000	75.6556
39 1,2-Dichloropropane	63	13.946	13.951	(1.066)	254700	75.0000	74.7660
40 Dibromomethane	93	14.153	14.148	(1.082)	166446	75.0000	75.6443
41 Bromodichloromethane	83	14.320	14.325	(1.095)	292859	75.0000	75.0756
42 Tetramethyl THF	43	14.960	14.965	(1.144)	494056	75.0000	75.3223
43 cis-1,3-Dichloropropene	75	15.009	15.014	(1.147)	369959	75.0000	75.8345
44 4-Methyl-2-Pentanone	43	15.176	15.171	(1.160)	278710	75.0000	75.6689
$ 45 Toluene-d8	98	15.393	15.388	(1.177)	558694	50.0000	49.6185
46 Toluene	92	15.491	15.496	(1.184)	656352	75.0000	75.6158
47 trans-1,3-Dichloropropene	75	15.865	15.870	(1.213)	322317	75.0000	76.2102
48 2-Chloroethylvinylether	63	16.170	16.166	(1.236)	37150	75.0000	74.2832
49 1,1,2-Trichloroethane	85	16.170	16.166	(1.236)	115413	75.0000	75.8027
50 Tetrachloroethene	166	16.318	16.313	(0.925)	290758	75.0000	81.9791
51 2-Hexanone	43	16.436	16.431	(0.931)	211581	75.0000	78.3781
52 1,3-Dichloropropane	76	16.456	16.451	(0.933)	350303	75.0000	74.7519
53 Dibromochloromethane	129	16.771	16.776	(0.950)	264203	75.0000	78.4092
54 1,2-Dibromoethane	107	17.017	17.012	(1.301)	247733	75.0000	76.7890
* 55 Chlorobenzene-d5	117	17.647	17.642	(1.000)	504769	50.0000	
56 Chlorobenzene	112	17.686	17.691	(1.002)	785827	75.0000	75.4852
57 Ethylbenzene	91	17.755	17.760	(1.006)	1258261	75.0000	77.0854
58 1,1,1,2-Tetrachloroethane	131	17.785	17.780	(1.008)	237948	75.0000	76.3011
59 m,p-Xylenes	106	17.922	17.927	(1.016)	1051442	150.000	154.1429
60 o-Xylene	106	18.533	18.538	(1.050)	508544	75.0000	76.5483
61 Styrene	104	18.562	18.567	(1.052)	879844	75.0000	77.5394
62 Bromoform	173	18.926	18.931	(1.073)	197644	75.0000	78.1741
63 Isopropylbenzene	105	19.025	19.030	(0.905)	1252854	75.0000	79.9071
64 Cyclohexanone	55	19.330	19.325	(0.920)	168634	750.000	780.1768
$ 65 Bromofluorobenzene	95	19.359	19.355	(0.921)	259049	50.0000	50.0421
66 1,1,2,2-Tetrachloroethane	83	19.527	19.532	(0.929)	318359	75.0000	76.6990
67 Bromobenzene	156	19.615	19.620	(0.933)	349846	75.0000	75.6943
68 Propylbenzene	91	19.625	19.630	(0.934)	1496518	75.0000	79.7519
69 1,2,3-Trichloropropane	110	19.655	19.650	(0.935)	90742	75.0000	77.9678
70 2-Chlorotoluene	91	19.852	19.847	(0.945)	971538	75.0000	75.6126
71 1,3,5-Trimethylbenzene	105	19.861	19.866	(0.945)	990029	75.0000	79.2894
72 4-Chlorotoluene	91	19.999	20.004	(0.952)	907104	75.0000	75.4379
73 tert-Butylbenzene	119	20.334	20.339	(0.968)	886607	75.0000	80.8151
74 1,2,4-Trimethylbenzene	105	20.422	20.418	(0.972)	929777	75.0000	79.0683
75 sec-Butylbenzene	105	20.649	20.644	(0.983)	1383895	75.0000	82.9096
76 para-Isopropyl Toluene	119	20.826	20.821	(0.991)	1070802	75.0000	82.3645

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS21.D
Report Date: 01-Nov-2004 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.924	20.929	(0.996)	636027	75.0000	74.5632
* 78 1,4-Dichlorobenzene-d4	152	21.013	21.018	(1.000)	266544	50.0000	
79 1,4-Dichlorobenzene	146	21.052	21.057	(1.002)	652675	75.0000	75.0840
80 n-Butylbenzene	91	21.407	21.402	(1.019)	889304	75.0000	84.5704
81 1,2-Dichlorobenzene	146	21.604	21.608	(1.028)	609727	75.0000	75.9482
82 1,2-Dibromo-3-Chloropropane	75	22.765	22.770	(1.083)	59489	75.0000	76.5456
83 1,2,4-Trichlorobenzene	180	24.064	24.069	(1.145)	345424	75.0000	77.7017
84 Hexachlorobutadiene	225	24.212	24.207	(1.152)	218275	75.0000	81.9984
85 Naphthalene	128	24.566	24.561	(1.169)	757964	75.0000	78.6327
86 1,2,3-Trichlorobenzene	180	25.009	25.004	(1.190)	330709	75.0000	77.6266

Data File: \\Comsserver\DD\chem\HSV0A02.i\102804.b\BJS21.D
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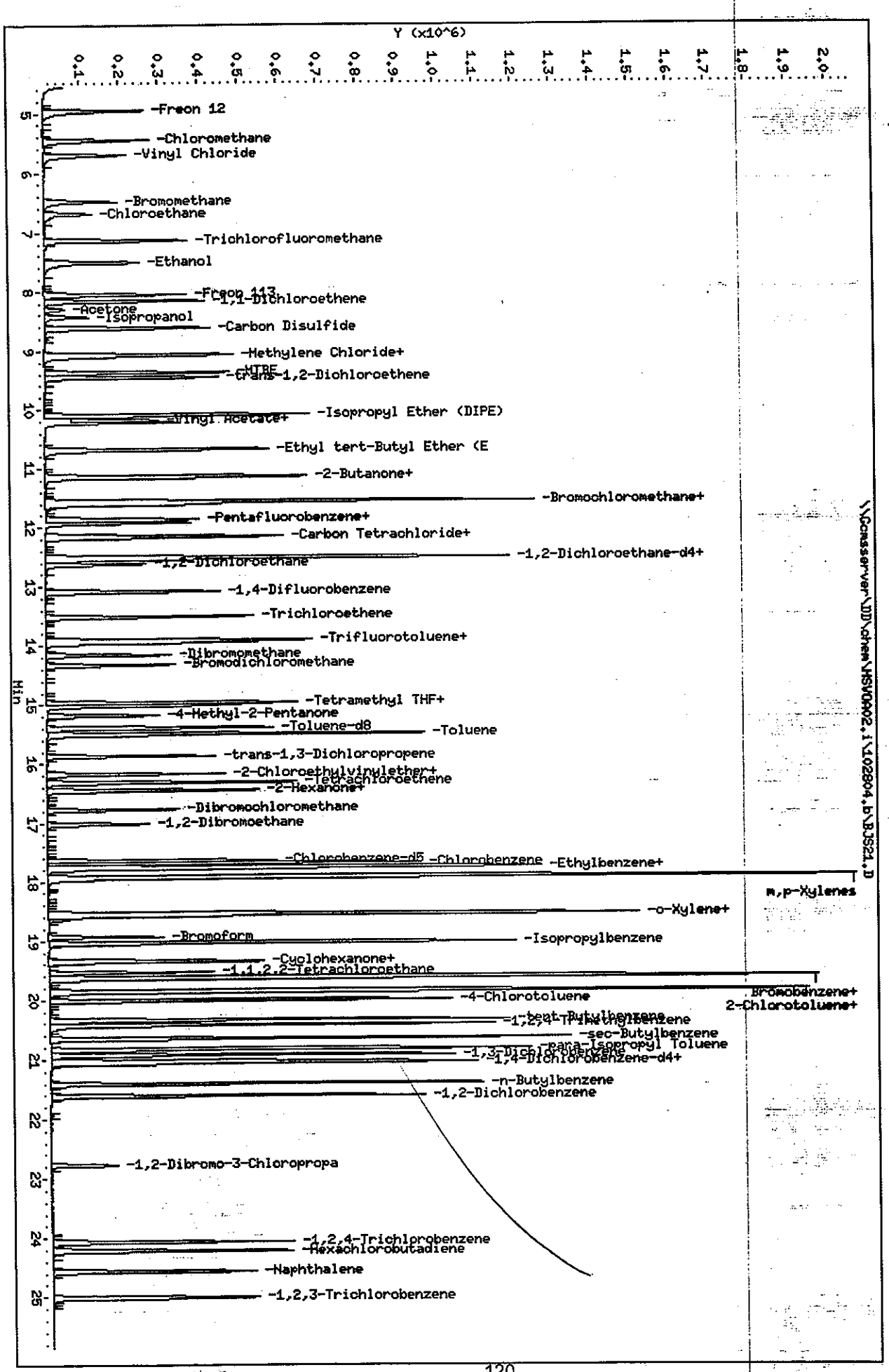
Sample Info: ICAL,04WS1783,0.0015/5,04SS379,0.00075/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSV0A02.i
Operator: AJA
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS22.D
Report Date: 01-Nov-2004 14:25

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS22.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 28-OCT-2004 23:04 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICAL,04WS1783,0.002/5,04SS379,0.001/5
Misc Info : 100PPB, NP NL
Comment :
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Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 22 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.955	4.955	(0.418)	605604	100.000	97.0258
2 Chloromethane	50	5.447	5.447	(0.460)	685870	100.000	99.0136
3 Vinyl Chloride	62	5.703	5.703	(0.481)	539851	100.000	109.3824
4 Bromomethane	94	6.481	6.481	(0.547)	318129	100.000	103.1908
5 Chloroethane	64	6.687	6.687	(0.564)	270239	100.000	103.7704
6 Trichlorofluoromethane	101	7.140	7.140	(0.602)	618483	100.000	98.8900
7 Ethanol	45	7.504	7.504	(0.633)	656787	10000.0	9503.5915
8 Freon 113	101	8.055	8.055	(0.680)	336807	100.000	98.8822
9 1,1-Dichloroethene	96	8.154	8.154	(0.688)	338221	100.000	109.3509
10 Acetone	43	8.301	8.301	(0.700)	116782	100.000	85.4590
11 Isopropanol	45	8.419	8.419	(0.710)	306016	1000.00	969.9028
12 Carbon Disulfide	76	8.616	8.616	(0.727)	1221242	100.000	105.4237
13 Methylene Chloride	84	9.059	9.059	(0.764)	420917	100.000	93.8258
14 tert-Butyl Alcohol (TBA)	59	9.099	9.099	(0.768)	427555	1000.00	946.3832
15 MTBE	73	9.374	9.374	(0.791)	932976	100.000	102.2720
16 trans-1,2-Dichloroethene	96	9.453	9.453	(0.797)	373029	100.000	102.0954
17 Isopropyl Ether (DIPE)	45	10.093	10.093	(0.851)	1225385	100.000	102.5270
18 Vinyl Acetate	43	10.171	10.171	(0.858)	767005	100.000	100.9205
19 1,1-Dichloroethane	63	10.221	10.221	(0.862)	623484	100.000	100.3116
20 Ethyl tert-Butyl Ether (ETBE)	59	10.673	10.673	(0.900)	1034842	100.000	103.6878
21 2-Butanone	43	11.136	11.136	(0.939)	189441	100.000	94.8301
22 2,2-Dichloropropane	77	11.126	11.126	(0.939)	441057	100.000	106.1549

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS22.D
Report Date: 01-Nov-2004 14:25

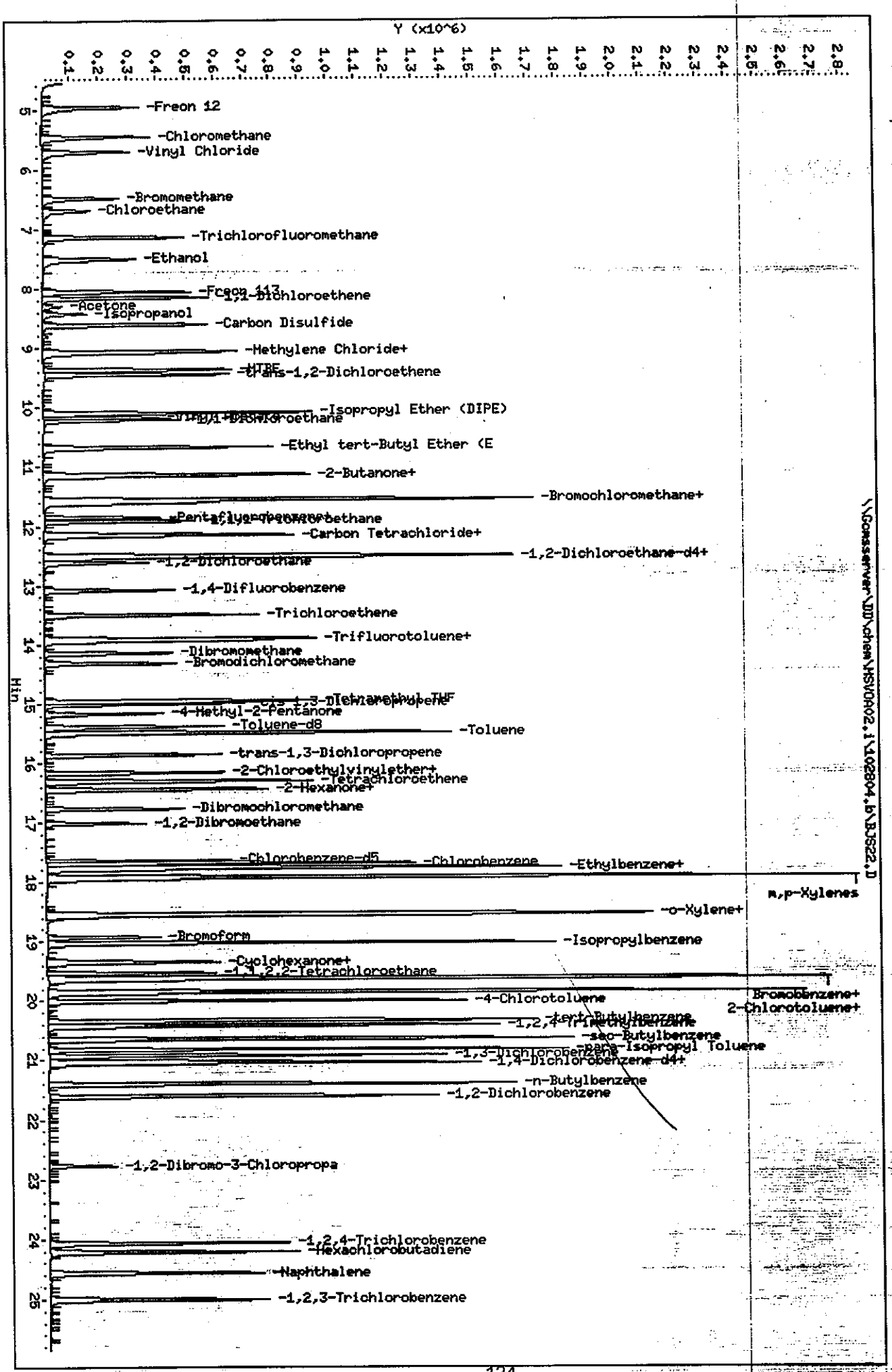
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	11.156	11.156	(0.941)	382989	100.000	98.4537
	24 Bromochloromethane	128	11.559	11.559	(0.975)	215140	100.000	101.8872
	25 Tetrahydrofuran	42	11.559	11.559	(0.975)	1065210	1000.00	914.8331
	26 Chloroform	83	11.608	11.608	(0.979)	552134	100.000	97.0036
*	27 Pentafluorobenzene	168	11.855	11.855	(1.000)	395679	50.0000	
$	28 Dibromofluoromethane	113	11.884	11.884	(1.002)	174061	50.0000	49.4409
	29 1,1,1-Trichloroethane	97	11.923	11.923	(1.006)	441711	100.000	106.8055
	30 Carbon Tetrachloride	117	12.140	12.140	(0.928)	405990	100.000	110.2327
	31 1,1-Dichloropropene	75	12.169	12.169	(0.930)	446473	100.000	108.9825
$	32 1,2-Dichloroethane-d4	65	12.494	12.494	(0.955)	143095	50.0000	47.7176
	33 Benzene	78	12.514	12.514	(0.956)	1379856	100.000	99.2133
	34 Methyl tert-Amyl Ether (TAME)	73	12.534	12.534	(0.958)	957832	100.000	101.2336
	35 1,2-Dichloroethane	62	12.622	12.622	(0.965)	384856	100.000	98.5592
*	36 1,4-Difluorobenzene	114	13.085	13.085	(1.000)	583683	50.0000	
	37 Trichloroethene	95	13.508	13.508	(1.032)	342200	100.000	102.0696
$	38 Trifluorotoluene	146	13.912	13.912	(1.063)	664499	100.000	99.2948
	39 1,2-Dichloropropane	63	13.951	13.951	(1.066)	370308	100.000	101.0736
	40 Dibromomethane	93	14.148	14.148	(1.081)	234493	100.000	99.0905
	41 Bromodichloromethane	83	14.325	14.325	(1.095)	417029	100.000	99.4046
	42 Tetramethyl THF	43	14.965	14.965	(1.144)	712861	100.000	101.0536
	43 cis-1,3-Dichloropropene	75	15.014	15.014	(1.147)	536316	100.000	102.2194
	44 4-Methyl-2-Pentanone	43	15.171	15.171	(1.159)	394042	100.000	99.4734
$	45 Toluene-d8	98	15.388	15.388	(1.176)	604847	50.0000	49.9476
	46 Toluene	92	15.496	15.496	(1.184)	941875	100.000	100.8948
	47 trans-1,3-Dichloropropene	75	15.870	15.870	(1.213)	462444	100.000	101.6691
	48 2-Chloroethylvinylether	63	16.166	16.166	(1.235)	52139	100.000	96.9380
	49 1,1,2-Trichloroethane	85	16.166	16.166	(1.235)	162747	100.000	99.3900
	50 Tetrachloroethene	166	16.313	16.313	(0.925)	420220	100.000	110.0365
	51 2-Hexanone	43	16.431	16.431	(0.931)	290151	100.000	99.8230
	52 1,3-Dichloropropane	76	16.451	16.451	(0.932)	496147	100.000	98.3280
	53 Dibromochloromethane	129	16.776	16.776	(0.951)	376017	100.000	103.6395
	54 1,2-Dibromoethane	107	17.012	17.012	(1.300)	351578	100.000	101.3297
*	55 Chlorobenzene-d5	117	17.642	17.642	(1.000)	543506	50.0000	
	56 Chlorobenzene	112	17.691	17.691	(1.003)	1118180	100.000	99.7550
	57 Ethylbenzene	91	17.760	17.760	(1.007)	1790232	100.000	101.8589
	58 1,1,1,2-Tetrachloroethane	131	17.780	17.780	(1.008)	336937	100.000	100.3427
	59 m,p-Xylenes	106	17.927	17.927	(1.016)	1472028	200.000	200.4208
	60 o-Xylene	106	18.538	18.538	(1.051)	707762	100.000	98.9424
	61 Styrene	104	18.567	18.567	(1.052)	1224313	100.000	100.2069
	62 Bromoform	173	18.931	18.931	(1.073)	278111	100.000	102.1612
	63 Isopropylbenzene	105	19.030	19.030	(0.905)	1790548	100.000	107.7507
	64 Cyclohexanone	55	19.325	19.325	(0.919)	182823	1000.00	798.0455
$	65 Bromofluorobenzene	95	19.355	19.355	(0.921)	271466	50.0000	49.4787
	66 1,1,2,2-Tetrachloroethane	83	19.532	19.532	(0.929)	433481	100.000	98.5353
	67 Bromobenzene	156	19.620	19.620	(0.934)	493126	100.000	100.6684
	68 Propylbenzene	91	19.630	19.630	(0.934)	2095539	100.000	105.3669
	69 1,2,3-Trichloropropane	110	19.650	19.650	(0.935)	120817	100.000	97.9454
	70 2-Chlorotoluene	91	19.847	19.847	(0.944)	1355926	100.000	99.5679
	71 1,3,5-Trimethylbenzene	105	19.866	19.866	(0.945)	1369998	100.000	105.5228
	72 4-Chlorotoluene	91	20.004	20.004	(0.952)	1273428	100.000	99.9208
	73 tert-Butylbenzene	119	20.339	20.339	(0.968)	1267563	100.000	109.0135
	74 1,2,4-Trimethylbenzene	105	20.418	20.418	(0.971)	1316962	100.000	105.6686
	75 sec-Butylbenzene	105	20.644	20.644	(0.982)	1937031	100.000	109.4932
	76 para-Isopropyl Toluene	119	20.821	20.821	(0.991)	1537521	100.000	111.5837

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS22.D
Report Date: 01-Nov-2004 14:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	20.929	20.929	(0.996)	907677	100.000	100.3989
* 78 1,4-Dichlorobenzene-d4	152	21.018	21.018	(1.000)	282501	50.0000	
79 1,4-Dichlorobenzene	146	21.057	21.057	(1.002)	921426	100.000	100.0137
80 n-Butylbenzene	91	21.402	21.402	(1.018)	1261102	100.000	113.1534
81 1,2-Dichlorobenzene	146	21.608	21.608	(1.028)	849821	100.000	99.8754
82 1,2-Dibromo-3-Chloropropane	75	22.770	22.770	(1.083)	78877	100.000	95.7597
83 1,2,4-Trichlorobenzene	180	24.069	24.069	(1.145)	495525	100.000	105.1702
84 Hexachlorobutadiene	225	24.207	24.207	(1.152)	307289	100.000	108.9174
85 Naphthalene	128	24.561	24.561	(1.169)	1062821	100.000	104.0312
86 1,2,3-Trichlorobenzene	180	25.004	25.004	(1.190)	477476	100.000	105.7463

Data File: \\Gcmsserver\DD\chem\HSV0A02.i\102804.b\BJS22.D
Date : 28-OCT-2004 23:04
Client ID: DYNA P&T
Sample Info: ICAL,04WS1783,0,002/5,04SS379,0,001/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSV0A02.i
Operator: AJA
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB
Seqnum : 414435400023 Filename : bjs23 Injected : 28-OCT-2004 23:38
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS1969C (5000X), 04WS1749 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	39.33670	ug/L	-21	30	!v-
Chloromethane	50.00000	41.57690	ug/L	-17	30	
Vinyl Chloride	50.00000	47.20300	ug/L	-6	20	
Bromomethane	50.00000	45.54420	ug/L	-9	30	
Chloroethane	50.00000	48.87090	ug/L	-2	30	
Trichlorofluoromethane	50.00000	47.81530	ug/L	-4	30	
Dibromofluoromethane	50.00000	49.37770	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	49.27980	ug/L	-1	30	
Toluene-d8	50.00000	49.41940	ug/L	-1	30	
Bromofluorobenzene	50.00000	50.37750	ug/L	1	30	

ISTD (ICAL-bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	395239	9.21	11.86	11.85	-0.01
1,4-Difluorobenzene	521847	573075	9.82	13.09	13.08	-0.01
Chlorobenzene-d5	489940	521830	6.51	17.64	17.64	0.00
1,4-Dichlorobenzene-d4	259088	265429	2.45	21.02	21.02	0.00

11/04/04

11/1/04

!=warning -=low bias v=ICV
Page 1 of 1

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS23.D
Report Date: 01-Nov-2004 14:14

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS23.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 28-OCT-2004 23:38 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICV,04WS1969C,0.001/5
Misc Info : 50PPB, NP NL GAS ONLY
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

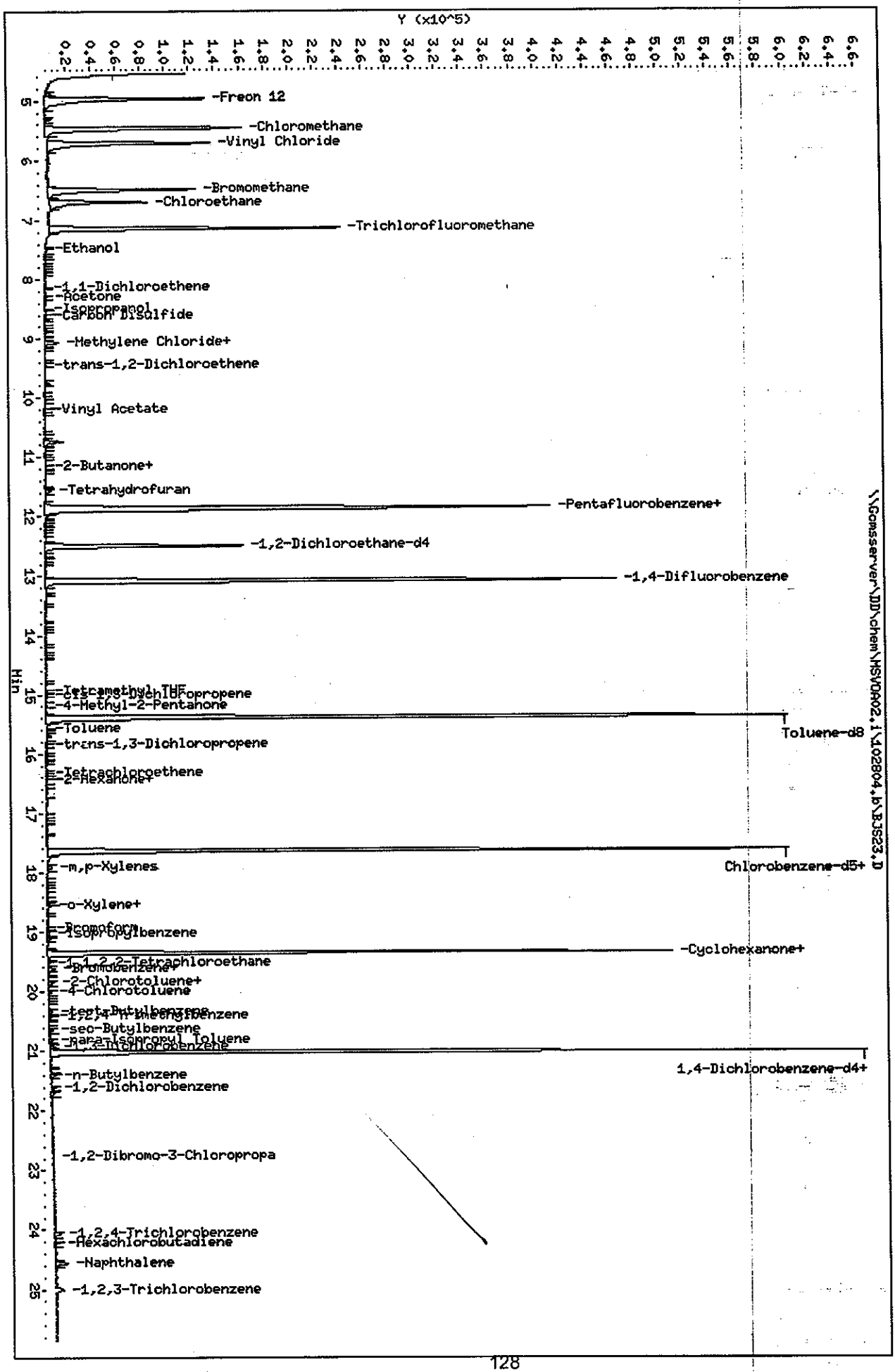
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.964	4.955	(0.419)	228672	39.3367	39.3367
2 Chloromethane	50	5.456	5.447	(0.460)	287684	41.5769	41.5768
3 Vinyl Chloride	62	5.712	5.703	(0.482)	232709	47.2030	47.2030
4 Bromomethane	94	6.489	6.481	(0.547)	140253	45.5442	45.5442
5 Chloroethane	64	6.696	6.687	(0.565)	127128	48.8709	48.8708
6 Trichlorofluoromethane	101	7.149	7.140	(0.603)	284090	47.8153	47.8152
7 Ethanol	45	7.503	7.504	(0.633)	1537	22.2649	22.2648
9 1,1-Dichloroethene	96	8.153	8.154	(0.688)	602	0.19485	0.1948
10 Acetone	43	8.310	8.301	(0.701)	3137	2.29816	2.2981
11 Isopropanol	45	8.448	8.419	(0.713)	423	1.34217	1.3421
12 Carbon Disulfide	76	8.625	8.616	(0.728)	1235	0.10673	0.1067
13 Methylene Chloride	84	9.068	9.059	(0.765)	6715	1.49849	1.4984
14 tert-Butyl Alcohol (TBA)	59	9.107	9.099	(0.768)	676	1.49798	1.4979
16 trans-1,2-Dichloroethene	96	9.472	9.453	(0.799)	412	0.11289	0.1128
18 Vinyl Acetate	43	10.180	10.171	(0.859)	1242	0.16360	0.1636
21 2-Butanone	43	11.145	11.136	(0.940)	2230	1.11753	1.1175
23 cis-1,2-Dichloroethene	96	11.155	11.156	(0.941)	722	0.18581	0.1858
25 Tetrahydrofuran	42	11.568	11.559	(0.976)	4929	4.23788	4.2378
* 27 Pentafluorobenzene	168	11.854	11.855	(1.000)	395239	50.0000	
$ 28 Dibromofluoromethane	113	11.883	11.884	(1.002)	173645	49.3777	49.3777
30 Carbon Tetrachloride	117	11.854	12.140	(0.906)	33111	9.15657	9.1565
31 1,1-Dichloropropene	75	11.854	12.169	(0.906)	25774	6.40780	6.4078

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS23.D
Report Date: 01-Nov-2004 14:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
$ 32 1,2-Dichloroethane-d4	65	12.493	12.494	(0.955)	145094	49.2798	49.2798
* 36 1,4-Difluorobenzene	114	13.084	13.085	(1.000)	573075	50.0000	
42 Tetramethyl THF	43	14.934	14.965	(1.141)	963	0.13904	0.1390
43 cis-1,3-Dichloropropene	75	15.003	15.014	(1.147)	628	0.12191	0.1219
44 4-Methyl-2-Pentanone	43	15.190	15.171	(1.161)	1211	0.31137	0.3113
$ 45 Toluene-d8	98	15.387	15.388	(1.176)	587573	49.4194	49.4193
46 Toluene	92	15.495	15.496	(1.184)	1743	0.19017	0.1901
47 trans-1,3-Dichloropropene	75	15.859	15.870	(1.212)	581	0.13010	0.1300
50 Tetrachloroethene	166	16.312	16.313	(0.925)	426	0.11618	0.1161
51 2-Hexanone	43	16.440	16.431	(0.932)	1563	0.56007	0.5600
52 1,3-Dichloropropane	76	16.430	16.451	(0.931)	602	0.12426	0.1242
* 55 Chlorobenzene-d5	117	17.641	17.642	(1.000)	521830	50.0000	
56 Chlorobenzene	112	17.680	17.691	(1.002)	1994	0.18528	0.1852
57 Ethylbenzene	91	17.749	17.760	(1.006)	4018	0.23811	0.2381
59 m,p-Xylenes	106	17.917	17.927	(1.016)	2855	0.40486	0.4048
60 o-Xylene	106	18.537	18.538	(1.051)	1060	0.15434	0.1543
61 Styrene	104	18.566	18.567	(1.052)	2120	0.18072	0.1807
62 Bromoform	173	18.920	18.931	(1.073)	544	0.20813	0.2081
63 Isopropylbenzene	105	19.019	19.030	(0.905)	3101	0.19861	0.1986
64 Cyclohexanone	55	19.324	19.325	(0.919)	356	1.65394	1.6539
$ 65 Bromofluorobenzene	95	19.354	19.355	(0.921)	259694	50.3775	50.3774
66 1,1,2,2-Tetrachloroethane	83	19.531	19.532	(0.929)	646	0.15629	0.1562
67 Bromobenzene	156	19.619	19.620	(0.934)	1222	0.26551	0.2655
68 Propylbenzene	91	19.619	19.630	(0.934)	5983	0.32018	0.3201
70 2-Chlorotoluene	91	19.846	19.847	(0.944)	4207	0.32880	0.3287
71 1,3,5-Trimethylbenzene	105	19.855	19.866	(0.945)	3130	0.25173	0.2517
72 4-Chlorotoluene	91	20.013	20.004	(0.952)	4089	0.34148	0.3414
73 tert-Butylbenzene	119	20.338	20.339	(0.968)	3522	0.32238	0.3223
74 1,2,4-Trimethylbenzene	105	20.417	20.418	(0.971)	3674	0.31375	0.3137
75 sec-Butylbenzene	105	20.643	20.644	(0.982)	4327	0.26032	0.2603
76 para-Isopropyl Toluene	119	20.820	20.821	(0.991)	3989	0.30812	0.3081
77 1,3-Dichlorobenzene	146	20.928	20.929	(0.996)	3791	0.44630	0.4462
* 78 1,4-Dichlorobenzene-d4	152	21.017	21.018	(1.000)	265429	50.0000	
79 1,4-Dichlorobenzene	146	21.056	21.057	(1.002)	3932	0.45424	0.4542
80 n-Butylbenzene	91	21.391	21.402	(1.018)	5532	0.52829	0.5282
81 1,2-Dichlorobenzene	146	21.607	21.608	(1.028)	3705	0.46344	0.4634
82 1,2-Dibromo-3-Chloropropane	75	22.759	22.770	(1.083)	428	0.55303	0.5530
83 1,2,4-Trichlorobenzene	180	24.068	24.069	(1.145)	3908	0.88278	0.8827
84 Hexachlorobutadiene	225	24.216	24.207	(1.152)	1577	0.59491	0.5949
85 Naphthalene	128	24.560	24.561	(1.169)	13618	1.41869	1.4186
86 1,2,3-Trichlorobenzene	180	25.003	25.004	(1.190)	4150	0.97821	0.9782

Data File: \\Gomsserver\DD\chem\HSVOA02.i\102804.b\BJS23.D
Date : 28-OCT-2004 23:38
Client ID: DYNA P&T
Sample Info: ICV,04WS1969C,0,001/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA02.i
Operator: AJA
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB
Seqnum : 414435400024 Filename : bjs24 Injected : 29-OCT-2004 00:11
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS1940 (5000X), 04WS1968 (5000X), 04WS1749 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Acetone	50.00000	41.10720	ug/L	-18	40
Freon 113	50.00000	52.00710	ug/L	4	30
1,1-Dichloroethene	50.00000	47.43920	ug/L	-5	20
Methylene Chloride	50.00000	44.33470	ug/L	-11	30
Carbon Disulfide	50.00000	40.47320	ug/L	-19	30
MTBE	50.00000	47.26570	ug/L	-5	30
trans-1,2-Dichloroethene	50.00000	46.13830	ug/L	-8	30
Vinyl Acetate	50.00000	43.35220	ug/L	-13	40
1,1-Dichloroethane	50.00000	46.19910	ug/L	-8	30
2-Butanone	50.00000	44.36260	ug/L	-11	40
2,2-Dichloropropane	50.00000	47.27410	ug/L	-5	30
cis-1,2-Dichloroethene	50.00000	46.62390	ug/L	-7	30
Chloroform	50.00000	46.19570	ug/L	-8	20
Bromochloromethane	50.00000	47.05470	ug/L	-6	30
1,1,1-Trichloroethane	50.00000	49.92440	ug/L	0	30
1,1-Dichloropropene	50.00000	48.95160	ug/L	-2	30
Carbon Tetrachloride	50.00000	51.93090	ug/L	4	30
1,2-Dichloroethane	50.00000	46.76800	ug/L	-6	30
Benzene	50.00000	48.28770	ug/L	-3	30
Trichloroethene	50.00000	49.23140	ug/L	-2	30
1,2-Dichloropropane	50.00000	46.28490	ug/L	-7	20
Bromodichloromethane	50.00000	50.09050	ug/L	0	30
Dibromomethane	50.00000	46.87080	ug/L	-6	30
4-Methyl-2-Pentanone	50.00000	46.89360	ug/L	-6	40
Tetramethyl THF	50.00000	48.19920	ug/L	-4	30
cis-1,3-Dichloropropene	50.00000	47.41750	ug/L	-5	30
Toluene	50.00000	49.52080	ug/L	-1	20
trans-1,3-Dichloropropene	50.00000	44.85960	ug/L	-10	30
1,1,2-Trichloroethane	50.00000	48.17910	ug/L	-4	30
2-Hexanone	50.00000	45.97940	ug/L	-8	40
1,3-Dichloropropane	50.00000	46.30230	ug/L	-7	30
Tetrachloroethene	50.00000	50.99490	ug/L	2	30
Dibromochloromethane	50.00000	46.51120	ug/L	-7	30
1,2-Dibromoethane	50.00000	48.20080	ug/L	-4	30
Chlorobenzene	50.00000	47.63050	ug/L	-5	30
1,1,1,2-Tetrachloroethane	50.00000	46.56670	ug/L	-7	30
Ethylbenzene	50.00000	49.90100	ug/L	0	20
m,p-Xylenes	100.0000	100.3543	ug/L	0	30
o-Xylene	50.00000	49.34300	ug/L	-1	30
Styrene	50.00000	49.55840	ug/L	-1	30
Bromoform	50.00000	46.26170	ug/L	-7	30
Isopropylbenzene	50.00000	46.11960	ug/L	-8	30
1,1,2,2-Tetrachloroethane	50.00000	45.35340	ug/L	-9	30
1,2,3-Trichloropropane	50.00000	44.78210	ug/L	-10	30
Propylbenzene	50.00000	49.50140	ug/L	-1	30
Bromobenzene	50.00000	47.88040	ug/L	-4	30
1,3,5-Trimethylbenzene	50.00000	49.86090	ug/L	0	30

-=low bias v=ICV
Page 1 of 2

11/01/04

11/1/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : 50PPB
Seqnum : 414435400024 Filename : bjs24 Injected : 29-OCT-2004 00:11
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS1940 (5000X), 04WS1968 (5000X), 04WS1749 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags	
2-Chlorotoluene	50.00000	47.77470	ug/L	-4	30		
4-Chlorotoluene	50.00000	47.84060	ug/L	-4	30		
tert-Butylbenzene	50.00000	50.76850	ug/L	2	30		
1,2,4-Trimethylbenzene	50.00000	49.36140	ug/L	-1	30		
sec-Butylbenzene	50.00000	51.25850	ug/L	3	30		
para-Isopropyl Toluene	50.00000	49.38290	ug/L	-1	30		
1,3-Dichlorobenzene	50.00000	46.95740	ug/L	-6	30		
1,4-Dichlorobenzene	50.00000	47.07790	ug/L	-6	30		
n-Butylbenzene	50.00000	51.52840	ug/L	3	30		
1,2-Dichlorobenzene	50.00000	48.07310	ug/L	-4	30		
1,2-Dibromo-3-Chloropropane	50.00000	44.49660	ug/L	-11	30		
1,2,4-Trichlorobenzene	50.00000	48.00660	ug/L	-4	30		
Hexachlorobutadiene	50.00000	52.18240	ug/L	4	30		
Naphthalene	50.00000	47.91740	ug/L	-4	30		
1,2,3-Trichlorobenzene	50.00000	48.45320	ug/L	-3	30		
tert-Butyl Alcohol (TBA)	250.0000	230.5458	ug/L	-8	30		
Isopropyl Ether (DIPE)	50.00000	48.58340	ug/L	-3	30		
Ethyl tert-Butyl Ether (ETBE)	50.00000	49.81690	ug/L	0	30		
Methyl tert-Amyl Ether (TAME)	50.00000	48.99580	ug/L	-2	30		
Cyclohexanone	500.0000	331.5280	ug/L	-34	30	v- ***	
Ethanol	5000.000	4574.342	ug/L	-9	30		
Isopropanol	500.0000	444.9121	ug/L	-11	30		
Tetrahydrofuran	500.0000	453.8997	ug/L	-9	30		
Dibromofluoromethane	50.00000	48.65750	ug/L	-3	30		(NOT USED)
1,2-Dichloroethane-d4	50.00000	48.65510	ug/L	-3	30		(NOT USED)
Toluene-d8	50.00000	50.34100	ug/L	1	30		(NOT USED)
Bromofluorobenzene	50.00000	50.14370	ug/L	0	30		(NOT USED)

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	378259	4.52	11.86	11.85	-0.01
1,4-Difluorobenzene	521847	535109	2.54	13.09	13.08	-0.01
Chlorobenzene-d5	489940	510292	4.15	17.64	17.64	0.00
1,4-Dichlorobenzene-d4	259088	275790	6.45	21.02	21.02	0.00

-=low bias v=ICV

11/01/04

11/1/04

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS24.D
Report Date: 01-Nov-2004 14:15

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS24.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-OCT-2004 00:11 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : ICV,04WS1940,0.001/5,04WS1968,0.001/5
Misc Info : 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\826GOX02.m
Meth Date : 01-Nov-2004 14:13 target Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.954	4.955	(0.418)	1306	4.48528	4.4852
2 Chloromethane	50	5.436	5.447	(0.459)	12816	1.93535	1.9353
4 Bromomethane	94	6.479	6.481	(0.547)	63579	21.5728	21.5727
6 Trichlorofluoromethane	101	7.129	7.140	(0.601)	658	4.43948	4.4394
7 Ethanol	45	7.493	7.504	(0.632)	302212	4574.34	4574.3422
8 Freon 113	101	8.044	8.055	(0.679)	163310	52.0071	52.0071
9 1,1-Dichloroethene	96	8.153	8.154	(0.688)	140269	47.4392	47.4391
10 Acetone	43	8.291	8.301	(0.699)	53701	41.1072	41.1072
11 Isopropanol	45	8.418	8.419	(0.710)	134195	444.912	444.9120
12 Carbon Disulfide	76	8.605	8.616	(0.726)	448206	40.4732	40.4732
13 Methylene Chloride	84	9.058	9.059	(0.764)	190136	44.3347	44.3347
14 tert-Butyl Alcohol (TBA)	59	9.088	9.099	(0.767)	99570	230.546	230.5458
15 MTBE	73	9.373	9.374	(0.791)	412198	47.2657	47.2657
16 trans-1,2-Dichloroethene	96	9.452	9.453	(0.797)	161155	46.1383	46.1382
17 Isopropyl Ether (DIPE)	45	10.092	10.093	(0.851)	555096	48.5834	48.5833
18 Vinyl Acetate	43	10.170	10.171	(0.858)	314975	43.3522	43.3522
19 1,1-Dichloroethane	63	10.210	10.221	(0.861)	274507	46.1991	46.1990
20 Ethyl tert-Butyl Ether (ETBE)	59	10.672	10.673	(0.900)	475301	49.8169	49.8168
21 2-Butanone	43	11.125	11.136	(0.939)	84721	44.3626	44.3626
22 2,2-Dichloropropane	77	11.125	11.126	(0.939)	187769	47.2741	47.2740
23 cis-1,2-Dichloroethene	96	11.155	11.156	(0.941)	173384	46.6239	46.6239
24 Bromochloromethane	128	11.558	11.559	(0.975)	94984	47.0547	47.0546

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS24.D
Report Date: 01-Nov-2004 14:15

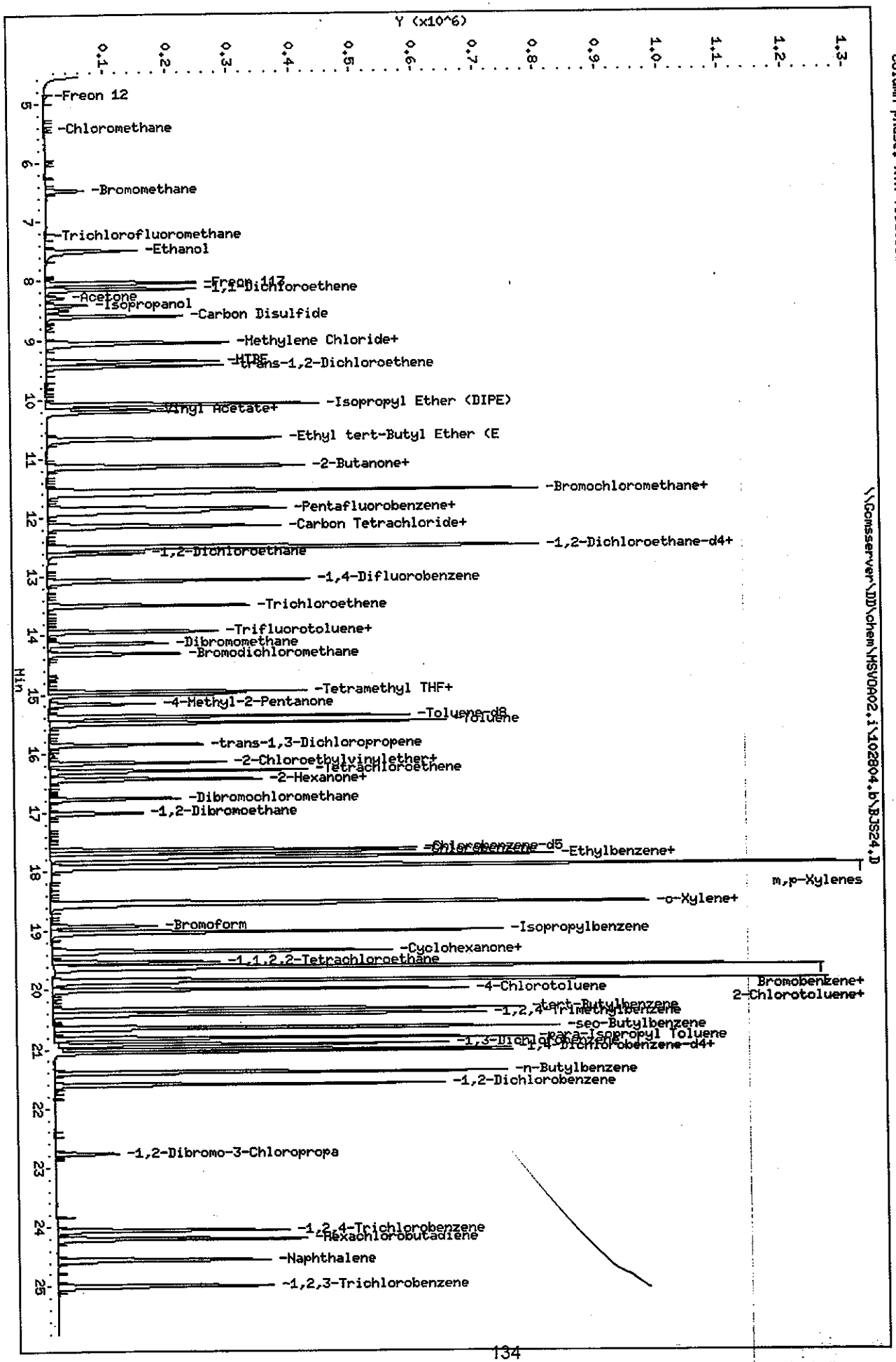
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
25 Tetrahydrofuran	42	11.558	11.559	(0.975)	505242	453.900	453.8996
26 Chloroform	83	11.607	11.608	(0.979)	251365	46.1957	46.1957
* 27 Pentafluorobenzene	168	11.854	11.855	(1.000)	378259	50.0000	
$ 28 Dibromofluoromethane	113	11.883	11.884	(1.002)	163761	48.6575	48.6575
29 1,1,1-Trichloroethane	97	11.922	11.923	(1.006)	197380	49.9244	49.9243
30 Carbon Tetrachloride	117	12.139	12.140	(0.928)	175346	51.9309	51.9308
31 1,1-Dichloropropene	75	12.159	12.169	(0.929)	183853	48.9516	48.9516
$ 32 1,2-Dichloroethane-d4	65	12.493	12.494	(0.955)	133764	48.6551	48.6550
33 Benzene	78	12.513	12.514	(0.956)	615694	48.2877	48.2876
34 Methyl tert-Amyl Ether (TAME)	73	12.533	12.534	(0.958)	425000	48.9958	48.9958
35 1,2-Dichloroethane	62	12.621	12.622	(0.965)	167423	46.7680	46.7680
* 36 1,4-Difluorobenzene	114	13.084	13.085	(1.000)	535109	50.0000	
37 Trichloroethene	95	13.507	13.508	(1.032)	151318	49.2314	49.2313
$ 38 Trifluorotoluene	146	13.901	13.912	(1.062)	1898	3.00064	3.0006
39 1,2-Dichloropropane	63	13.950	13.951	(1.066)	155464	46.2849	46.2849
40 Dibromomethane	93	14.147	14.148	(1.081)	101687	46.8708	46.8708
41 Bromodichloromethane	83	14.324	14.325	(1.095)	192655	50.0905	50.0904
42 Tetramethyl THF	43	14.964	14.965	(1.144)	311715	48.1992	48.1991
43 cis-1,3-Dichloropropene	75	15.013	15.014	(1.147)	228082	47.4175	47.4175
44 4-Methyl-2-Pentanone	43	15.170	15.171	(1.159)	170300	46.8936	46.8936
$ 45 Toluene-d8	98	15.387	15.388	(1.176)	558878	50.3410	50.3409
46 Toluene	92	15.495	15.496	(1.184)	423816	49.5208	49.5208
47 trans-1,3-Dichloropropene	75	15.869	15.870	(1.213)	187064	44.8596	44.8595
48 2-Chloroethylvinylether	63	16.165	16.166	(1.235)	23496	47.6497	47.6497
49 1,1,2-Trichloroethane	85	16.165	16.166	(1.235)	72326	48.1791	48.1791
50 Tetrachloroethene	166	16.312	16.313	(0.925)	182844	50.9949	50.9948
51 2-Hexanone	43	16.440	16.431	(0.932)	125479	45.9794	45.9794
52 1,3-Dichloropropane	76	16.450	16.451	(0.932)	219356	46.3023	46.3022
53 Dibromochloromethane	129	16.775	16.776	(0.951)	158436	46.5112	46.5111
54 1,2-Dibromoethane	107	17.011	17.012	(1.300)	153322	48.2008	48.2008
* 55 Chlorobenzene-d5	117	17.641	17.642	(1.000)	510292	50.0000	
56 Chlorobenzene	112	17.690	17.691	(1.003)	501275	47.6305	47.6304
57 Ethylbenzene	91	17.749	17.760	(1.006)	823443	49.9010	49.9009
58 1,1,1,2-Tetrachloroethane	131	17.789	17.780	(1.008)	146809	46.5667	46.5666
59 m,p-Xylenes	106	17.926	17.927	(1.016)	692028	100.354	100.3543
60 o-Xylene	106	18.537	18.538	(1.051)	331394	49.3430	49.3430
61 Styrene	104	18.566	18.567	(1.052)	568495	49.5584	49.5584
62 Bromoform	173	18.930	18.931	(1.073)	118241	46.2617	46.2617
63 Isopropylbenzene	105	19.029	19.030	(0.905)	748186	46.1196	46.1195
64 Cyclohexanone	55	19.324	19.325	(0.919)	74145	331.528	331.5279
$ 65 Bromofluorobenzene	95	19.354	19.355	(0.921)	268579	50.1437	50.1437
66 1,1,2,2-Tetrachloroethane	83	19.531	19.532	(0.929)	194781	45.3534	45.3534
67 Bromobenzene	156	19.619	19.620	(0.934)	228971	47.8804	47.8803
68 Propylbenzene	91	19.629	19.630	(0.934)	961097	49.5014	49.5013
69 1,2,3-Trichloropropane	110	19.649	19.650	(0.935)	53927	44.7821	44.7820
70 2-Chlorotoluene	91	19.846	19.847	(0.944)	635145	47.7747	47.7746
71 1,3,5-Trimethylbenzene	105	19.865	19.866	(0.945)	644173	49.8609	49.8609
72 4-Chlorotoluene	91	20.003	20.004	(0.952)	595214	47.8406	47.8405
73 tert-Butylbenzene	119	20.338	20.339	(0.968)	576291	50.7685	50.7684
74 1,2,4-Trimethylbenzene	105	20.416	20.418	(0.971)	600583	49.3614	49.3613
75 sec-Butylbenzene	105	20.643	20.644	(0.982)	885266	51.2585	51.2585
76 para-Isopropyl Toluene	119	20.820	20.821	(0.991)	664286	49.3829	49.3828
77 1,3-Dichlorobenzene	146	20.928	20.929	(0.996)	414443	46.9574	46.9574
* 78 1,4-Dichlorobenzene-d4	152	21.017	21.018	(1.000)	275790	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA02.i\102804.b\BJS24.D
Report Date: 01-Nov-2004 14:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
79 1,4-Dichlorobenzene	146	21.056	21.057	(1.002)	423425	47.0779	47.0779
80 n-Butylbenzene	91	21.401	21.402	(1.018)	560645	51.5284	51.5284
81 1,2-Dichlorobenzene	146	21.607	21.608	(1.028)	399328	48.0731	48.0731
82 1,2-Dibromo-3-Chloropropane	75	22.769	22.770	(1.083)	35781	44.4966	44.4965
83 1,2,4-Trichlorobenzene	180	24.068	24.069	(1.145)	220817	48.0066	48.0066
84 Hexachlorobutadiene	225	24.206	24.207	(1.152)	143725	52.1824	52.1824
85 Naphthalene	128	24.560	24.561	(1.169)	477912	47.9174	47.9173
86 1,2,3-Trichlorobenzene	180	25.003	25.004	(1.190)	213583	48.4532	48.4531

Data File: \\Comsserver\DD\chem\MSVOA02.i\102804.b\BJS24.D
Date : 29-OCT-2004 00:11
Client ID: DYNA P&T
Sample Info: ICV,04WS1940,0.001/5,04WS1968,0.001/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA02.i
Operator: AJA
Column diameter: 0.32



Curtis & Tompkins, Ltd.

Continuing Calibration Data

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : QC273934 IDF : 1.0
Seqnum : 414481618007 Filename : bkt07 Injected : 29-NOV-2004 12:25
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS2168A (5000X), 04SS408 (10000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
1,1-Dichloroethene	0.3908	0.4162	50.00000	53.24920	ug/L	6	20	0.0500	
Benzene	1.1914	1.1582	50.00000	48.60800	ug/L	-3	30	0.0500	
Trichloroethene	0.2872	0.3026	50.00000	52.68430	ug/L	5	30	0.0500	
Toluene	0.7997	0.8205	50.00000	51.30170	ug/L	3	20	0.0500	
Chlorobenzene	1.0312	1.0410	50.00000	50.47460	ug/L	1	30	0.3000	
Freon 12	0.6566	0.8257	50.00000	54.30990	ug/L	9	30	0.0500	!v-
Chloromethane	0.8753	0.8052	50.00000	45.99480	ug/L	-8	30	0.1000	
Vinyl Chloride	0.6237	0.6318	50.00000	50.65390	ug/L	1	20	0.0500	
Bromomethane	0.3896	0.3654	50.00000	46.89450	ug/L	-6	30	0.0500	
Chloroethane	0.3291	0.3222	50.00000	48.95460	ug/L	-2	30	0.0500	
Trichlorofluoromethane	0.6677	0.7719	50.00000	51.02730	ug/L	2	30	0.0500	
Acetone	0.1727	0.1865	50.00000	54.00380	ug/L	8	40	0.0500	
Freon 113	0.3590	0.4101	50.00000	49.59090	ug/L	-1	30	0.0500	
Methylene Chloride	0.5669	0.5148	50.00000	45.40510	ug/L	-9	30	0.0500	
MTBE	1.1528	1.1363	50.00000	49.28470	ug/L	-1	30	0.0500	
Carbon Disulfide	1.4638	1.5590	50.00000	53.24950	ug/L	6	30	0.0500	
trans-1,2-Dichloroethene	0.4617	0.4563	50.00000	49.41860	ug/L	-1	30	0.0500	
Vinyl Acetate	0.9604	0.8641	50.00000	44.98820	ug/L	-10	40	0.0500	
1,1-Dichloroethane	0.7854	0.7265	50.00000	46.25030	ug/L	-7	30	0.1000	
2-Butanone	0.2524	0.2481	50.00000	49.13350	ug/L	-2	40	0.0500	
cis-1,2-Dichloroethene	0.4916	0.4759	50.00000	48.40660	ug/L	-3	30	0.0500	
2,2-Dichloropropane	0.5250	0.5366	50.00000	51.10570	ug/L	2	30	0.0500	
Chloroform	0.7193	0.6785	50.00000	47.16540	ug/L	-6	20	0.0500	
Bromochloromethane	0.2668	0.2713	50.00000	50.83150	ug/L	2	30	0.0500	
1,1,1-Trichloroethane	0.5226	0.5132	50.00000	49.10190	ug/L	-2	30	0.0500	
1,1-Dichloropropene	0.3509	0.3731	50.00000	53.15060	ug/L	6	30	0.0500	
Carbon Tetrachloride	0.3155	0.3506	50.00000	55.56800	ug/L	11	30	0.0500	
1,2-Dichloroethane	0.3345	0.3246	50.00000	48.52040	ug/L	-3	30	0.0500	
1,2-Dichloropropane	0.3138	0.3096	50.00000	49.31640	ug/L	-1	20	0.0500	
Bromodichloromethane	0.3594	0.3495	50.00000	48.62220	ug/L	-3	30	0.0500	
Dibromomethane	0.2027	0.2009	50.00000	49.55550	ug/L	-1	30	0.0500	
4-Methyl-2-Pentanone	0.3393	0.3195	50.00000	47.07970	ug/L	-6	40	0.0500	
Tetramethyl THF	0.6043	0.5622	50.00000	46.52000	ug/L	-7	30	0.0500	
cis-1,3-Dichloropropene	0.4494	0.4470	50.00000	49.72380	ug/L	-1	30	0.0500	
trans-1,3-Dichloropropene	0.3896	0.3952	50.00000	50.71350	ug/L	1	30	0.0500	
1,1,2-Trichloroethane	0.1403	0.1400	50.00000	49.91770	ug/L	0	30	0.0500	
2-Hexanone	0.2674	0.2535	50.00000	47.39790	ug/L	-5	40	0.0500	
1,3-Dichloropropane	0.4642	0.4411	50.00000	47.51500	ug/L	-5	30	0.0500	
Tetrachloroethene	0.3513	0.3850	50.00000	54.78660	ug/L	10	30	0.0500	
Dibromochloromethane	0.3338	0.3269	50.00000	48.97200	ug/L	-2	30	0.0500	
1,2-Dibromoethane	0.2972	0.2972	50.00000	50.00360	ug/L	0	30	0.0500	
1,1,1,2-Tetrachloroethane	0.3089	0.2998	50.00000	48.52140	ug/L	-3	30	0.0500	
Ethylbenzene	1.6169	1.6602	50.00000	51.33940	ug/L	3	20	0.0500	
m,p-Xylenes	0.6757	0.7010	100.0000	103.7521	ug/L	4	30	0.0500	
o-Xylene	0.6581	0.6802	50.00000	51.68220	ug/L	3	30	0.0500	
Styrene	1.1240	1.1626	50.00000	51.71880	ug/L	3	30	0.0500	

!=warning +=high bias -=low bias >LR=overrange c=CCV v=ICV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA02 Run Name : QC273934 IDF : 1.0
Seqnum : 414481618007 Filename : bkt07 Injected : 29-NOV-2004 12:25
Calnum : 414435400002 Caldate : 28-OCT-2004 Caltype : SOIL
Standards: 04WS2168A (5000X), 04SS408 (10000X), 04WS2096 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.2504	0.2530	50.00000	50.51370	ug/L	1	30	0.1000	
Isopropylbenzene	2.9411	2.9129	50.00000	49.52060	ug/L	-1	30	0.0500	
1,1,2,2-Tetrachloroethane	0.7786	0.6878	50.00000	44.16780	ug/L	-12	30	0.3000	
1,2,3-Trichloropropane	0.2183	0.1934	50.00000	44.28500	ug/L	-11	30	0.0500	
Propylbenzene	3.5200	3.5898	50.00000	50.99170	ug/L	2	30	0.0500	
Bromobenzene	0.8670	0.8206	50.00000	47.32180	ug/L	-5	30	0.0500	
1,3,5-Trimethylbenzene	2.3423	2.3134	50.00000	49.38320	ug/L	-1	30	0.0500	
2-Chlorotoluene	2.4103	2.2900	50.00000	47.50390	ug/L	-5	30	0.0500	
4-Chlorotoluene	2.2556	2.1803	50.00000	48.32990	ug/L	-3	30	0.0500	
tert-Butylbenzene	2.0580	2.1616	50.00000	52.51810	ug/L	5	30	0.0500	
1,2,4-Trimethylbenzene	2.2059	2.2266	50.00000	50.46990	ug/L	1	30	0.0500	
sec-Butylbenzene	3.1311	3.3522	50.00000	53.53020	ug/L	7	30	0.0500	
para-Isopropyl Toluene	2.4388	2.7432	50.00000	56.24120	ug/L	12	30	0.0500	
1,3-Dichlorobenzene	1.6001	1.5775	50.00000	49.29200	ug/L	-1	30	0.0500	
1,4-Dichlorobenzene	1.6306	1.6027	50.00000	49.14400	ug/L	-2	30	0.0500	
n-Butylbenzene	1.9726	2.3124	50.00000	58.61270	ug/L	17	30	0.0500	
1,2-Dichlorobenzene	1.5060	1.4872	50.00000	49.37740	ug/L	-1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1458	0.1277	50.00000	43.79340	ug/L	-12	30	0.0500	
1,2,4-Trichlorobenzene	0.8339	0.9651	50.00000	57.86400	ug/L	16	30	0.0500	
Hexachlorobutadiene	0.4993	0.5495	50.00000	55.02260	ug/L	10	30	0.0500	
Naphthalene	1.8082	1.9515	50.00000	53.96250	ug/L	8	30	0.0500	
1,2,3-Trichlorobenzene	0.7992	0.8854	50.00000	55.39750	ug/L	11	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0571	0.0513	500.0000	449.3995	ug/L	-10	30	0.0050	
Isopropyl Ether (DIPE)	1.5103	1.3971	50.00000	46.25350	ug/L	-7	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	1.2612	1.1778	50.00000	46.69480	ug/L	-7	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.8105	0.8062	50.00000	49.73140	ug/L	-1	30	0.0500	
Isopropanol	0.0399	0.0356	500.0000	446.0032	ug/L	-11	30	0.0050	
Ethanol	0.0087	0.0077	5000.000	4402.547	ug/L	~~-13~~	30	5.0E-4	NT
Cyclohexanone	0.0405	0.0910	500.0000	1122.538	ug/L	**125**	30	0.0050	>LR c+
Tetrahydrofuran	0.1471	0.1338	500.0000	454.5247	ug/L	-9	30	0.0050	
Dibromofluoromethane	0.4449	0.4295	50.00000	48.26730	ug/L	-3	30	0.0500	
1,2-Dichloroethane-d4	0.2569	0.2508	50.00000	48.82160	ug/L	-2	30	0.0500	
Toluene-d8	1.0373	1.0566	50.00000	50.92720	ug/L	2	30	0.0500	
Bromofluorobenzene	0.9711	0.9295	50.00000	47.86070	ug/L	-4	30	0.0500	
Trifluorotoluene	0.5050	0.6097	50.00000	54.43120	ug/L	9	30	0.0500	

ISTD (ICAL=bjs19)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	361893	339272	-6.25	11.86	11.83	-0.03
1,4-Difluorobenzene	521847	477123	-8.57	13.09	13.06	-0.03
Chlorobenzene-d5	489940	459373	-6.24	17.64	17.62	-0.02
1,4-Dichlorobenzene-d4	259088	263429	1.68	21.02	21.00	-0.02

4/3/05 11/29/04

!=warning +=high bias -=low bias >LR=overrange c=CCV v=ICV
Page 2 of 2

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Report Date: 29-Nov-2004 13:47

Curtis & Tompkins, Ltd.

Data file : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 29-NOV-2004 12:25 MS Autotune Date: 12-AUG-2004 08:21
Operator : AJA Inst ID: MSVOA02.i
Smp Info : CCV/LCS,QC273934,96898,04WS2168A,0.001/5
Misc Info : 04SS408,0.0005/5,50PPB, NP
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\826GOX02.m
Meth Date : 02-Nov-2004 09:30 Quant Type: ISTD
Cal Date : 28-OCT-2004 23:04 Cal File: BJS22.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: GCMSSERVER

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	4.936	4.955	(0.417)	280121	54.3099	54.3099
2 Chloromethane	50	5.428	5.448	(0.459)	273188	45.9948	45.9948
3 Vinyl Chloride	62	5.675	5.704	(0.480)	214360	50.6539	50.6539
4 Bromomethane	94	6.452	6.481	(0.546)	123962	46.8945	46.8945
5 Chloroethane	64	6.659	6.688	(0.563)	109313	48.9546	48.9545
6 Trichlorofluoromethane	101	7.112	7.141	(0.601)	261877	51.0273	51.0273
7 Ethanol	45	7.476	7.505	(0.632)	260883	4402.55	4402.5469
8 Freon 113	101	8.027	8.056	(0.679)	139142	49.5909	49.5909
9 1,1-Dichloroethene	96	8.125	8.154	(0.687)	141220	53.2492	53.2491(R)
10 Acetone	43	8.273	8.302	(0.700)	63277	54.0038	54.0038
11 Isopropanol	45	8.391	8.420	(0.710)	120658	446.003	446.0032
12 Carbon Disulfide	76	8.588	8.617	(0.726)	528913	53.2495	53.2494
13 Methylene Chloride	84	9.031	9.060	(0.764)	174656	45.4051	45.4050
14 tert-Butyl Alcohol (TBA)	59	9.060	9.099	(0.766)	174085	449.399	449.3994
15 MTBE	73	9.346	9.375	(0.790)	385506	49.2847	49.2847
16 trans-1,2-Dichloroethene	96	9.425	9.454	(0.797)	154821	49.4186	49.4185

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Report Date: 29-Nov-2004 13:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	17 Isopropyl Ether (DIPE)	45	10.064	10.093	(0.851)	474007	46.2535	46.2535
	18 Vinyl Acetate	43	10.143	10.172	(0.858)	293172	44.9882	44.9881
	19 1,1-Dichloroethane	63	10.192	10.221	(0.862)	246487	46.2503	46.2503
	20 Ethyl tert-Butyl Ether (ETBE)	59	10.645	10.674	(0.900)	399595	46.6948	46.6948
	21 2-Butanone	43	11.108	11.137	(0.939)	84161	49.1335	49.1335
	22 2,2-Dichloropropane	77	11.098	11.127	(0.938)	182066	51.1057	51.1056
	23 cis-1,2-Dichloroethene	96	11.127	11.156	(0.941)	161459	48.4066	48.4065
	24 Bromochloromethane	128	11.531	11.560	(0.975)	92032	50.8315	50.8315
	25 Tetrahydrofuran	42	11.531	11.560	(0.975)	453791	454.525	454.5246
	26 Chloroform	83	11.580	11.609	(0.979)	230189	47.1654	47.1654
*	27 Pentafluorobenzene	168	11.826	11.855	(1.000)	339272	50.0000	
$	28 Dibromofluoromethane	113	11.856	11.885	(1.002)	145704	48.2673	48.2673
	29 1,1,1-Trichloroethane	97	11.895	11.924	(1.006)	174119	49.1019	49.1019
	30 Carbon Tetrachloride	117	12.111	12.140	(0.928)	167295	55.5680	55.5680
	31 1,1-Dichloropropene	75	12.141	12.170	(0.930)	177992	53.1506	53.1506
$	32 1,2-Dichloroethane-d4	65	12.466	12.495	(0.955)	119677	48.8216	48.8215
	33 Benzene	78	12.486	12.514	(0.956)	552618	48.6080	48.6080(R)
	34 Methyl tert-Amyl Ether (TAME)	73	12.505	12.534	(0.958)	384635	49.7314	49.7313
	35 1,2-Dichloroethane	62	12.594	12.623	(0.965)	154874	48.5204	48.5203
*	36 1,4-Difluorobenzene	114	13.056	13.085	(1.000)	477123	50.0000	
	37 Trichloroethene	95	13.480	13.509	(1.032)	144383	52.6843	52.6843(R)
$	38 Trifluorotoluene	146	13.883	13.912	(1.063)	290902	54.4312	54.4311
	39 1,2-Dichloropropane	63	13.923	13.951	(1.066)	147696	49.3164	49.3164
	40 Dibromomethane	93	14.129	14.148	(1.082)	95861	49.5555	49.5554
	41 Bromodichloromethane	83	14.297	14.325	(1.095)	166743	48.6222	48.6221
	42 Tetramethyl THF	43	14.936	14.965	(1.144)	268253	46.5200	46.5199
	43 cis-1,3-Dichloropropene	75	14.985	15.014	(1.148)	213257	49.7238	49.7237
	44 4-Methyl-2-Pentanone	43	15.153	15.172	(1.161)	152448	47.0797	47.0797
$	45 Toluene-d8	98	15.369	15.388	(1.177)	504120	50.9272	50.9272
	46 Toluene	92	15.468	15.497	(1.185)	391480	51.3017	51.3017(R)
	47 trans-1,3-Dichloropropene	75	15.842	15.871	(1.213)	188558	50.7135	50.7134
	48 2-Chloroethylvinylether	63	16.147	16.166	(1.237)	20836	47.3928	47.3928
	49 1,1,2-Trichloroethane	85	16.147	16.166	(1.237)	66815	49.9177	49.9176
	50 Tetrachloroethene	166	16.295	16.314	(0.925)	176838	54.7866	54.7866
	51 2-Hexanone	43	16.413	16.432	(0.931)	116443	47.3979	47.3979
	52 1,3-Dichloropropane	76	16.432	16.451	(0.932)	202639	47.5150	47.5149
	53 Dibromochloromethane	129	16.757	16.776	(0.951)	150172	48.9720	48.9720
	54 1,2-Dibromoethane	107	16.993	17.013	(1.302)	141820	50.0036	50.0035
*	55 Chlorobenzene-d5	117	17.623	17.642	(1.000)	459373	50.0000	
	56 Chlorobenzene	112	17.663	17.692	(1.002)	478201	50.4746	50.4745(R)
	57 Ethylbenzene	91	17.732	17.761	(1.006)	762645	51.3394	51.3394
	58 1,1,1,2-Tetrachloroethane	131	17.761	17.780	(1.008)	137707	48.5214	48.5214
	59 m,p-Xylenes	106	17.899	17.928	(1.016)	644067	103.752	103.7521
	60 o-Xylene	106	18.519	18.538	(1.051)	312468	51.6822	51.6821
	61 Styrene	104	18.539	18.568	(1.052)	534077	51.7188	51.7188
	62 Bromoform	173	18.903	18.932	(1.073)	116225	50.5137	50.5136
	63 Isopropylbenzene	105	19.011	19.030	(0.905)	767354	49.5206	49.5205

Data File: \\GCMSSERVER\DD\chem\MSVOA02.i\112904.b\BKT07.D
Report Date: 29-Nov-2004 13:47

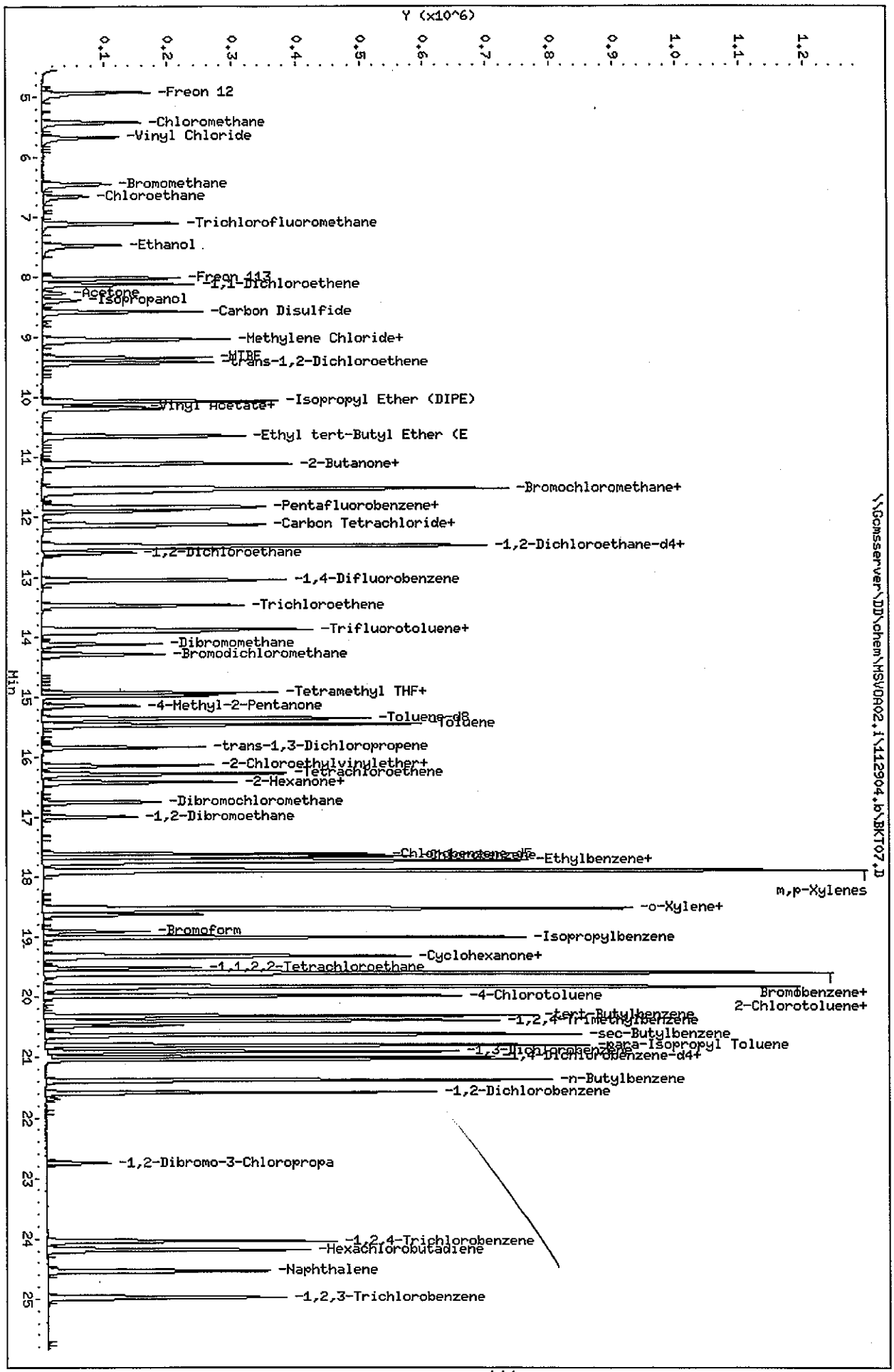
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
64 Cyclohexanone	55	19.306	19.325	(0.919)	239799	1122.54	1122.5380
$ 65 Bromofluorobenzene	95	19.336	19.355	(0.921)	244861	47.8607	47.8606
66 1,1,2,2-Tetrachloroethane	83	19.513	19.532	(0.929)	181187	44.1678	44.1678
67 Bromobenzene	156	19.592	19.621	(0.933)	216157	47.3218	47.3218
68 Propylbenzene	91	19.602	19.631	(0.933)	945660	50.9917	50.9916
69 1,2,3-Trichloropropane	110	19.631	19.650	(0.935)	50938	44.2850	44.2849
70 2-Chlorotoluene	91	19.828	19.847	(0.944)	603240	47.5039	47.5038
71 1,3,5-Trimethylbenzene	105	19.838	19.867	(0.945)	609407	49.3832	49.3832
72 4-Chlorotoluene	91	19.985	20.005	(0.952)	574352	48.3299	48.3298
73 tert-Butylbenzene	119	20.320	20.339	(0.968)	569433	52.5181	52.5180
74 1,2,4-Trimethylbenzene	105	20.399	20.418	(0.971)	586548	50.4699	50.4698
75 sec-Butylbenzene	105	20.625	20.644	(0.982)	883065	53.5302	53.5302
76 para-Isopropyl Toluene	119	20.802	20.822	(0.991)	722635	56.2412	56.2411
77 1,3-Dichlorobenzene	146	20.901	20.930	(0.995)	415549	49.2920	49.2919
* 78 1,4-Dichlorobenzene-d4	152	20.999	21.018	(1.000)	263429	50.0000	
79 1,4-Dichlorobenzene	146	21.029	21.058	(1.001)	422197	49.1440	49.1440
80 n-Butylbenzene	91	21.383	21.402	(1.018)	609142	58.6127	58.6126
81 1,2-Dichlorobenzene	146	21.590	21.609	(1.028)	391779	49.3774	49.3774
82 1,2-Dibromo-3-Chloropropane	75	22.751	22.770	(1.083)	33637	43.7934	43.7933
83 1,2,4-Trichlorobenzene	180	24.041	24.070	(1.145)	254229	57.8640	57.8639
84 Hexachlorobutadiene	225	24.188	24.207	(1.152)	144755	55.0226	55.0226
85 Naphthalene	128	24.543	24.562	(1.169)	514082	53.9625	53.9624
86 1,2,3-Trichlorobenzene	180	24.985	25.005	(1.190)	233249	55.3975	55.3975

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Comsserver\DD\chem\MSVOA02.i\112904.b\BKT07.D
Date : 29-NOV-2004 12:25
Client ID: DYNA P&T
Sample Info: CCV/LCS,QC273934,96898,04WS2168A,0.001/5
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA02.i
Operator: AJA
Column diameter: 0.32



MOISTURE DATA

Percent Moisture Summary Report

Batch: 96865
Date: 11/24/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176248-001	15.5434	23.9600	23.4925	94	6
176248-002	15.4465	23.5327	23.3143	97	3
176248-003	14.9821	22.6910	22.5478	98	2
176248-004	15.3700	22.9022	22.3052	92	8
176248-005	15.0683	22.2974	21.7303	92	8
176249-016	15.5595	22.1219	20.7060	78	22
176249-017	15.2583	22.1430	20.9833	83	17
176249-019	15.3766	22.4577	20.5212	73	27
176249-020	15.2447	22.4425	21.1445	82	18
176250-010	15.5308	23.1413	21.7977	82	18
176250-011	15.5331	23.8455	21.9568	77	23
176250-012	15.3151	23.8502	21.9372	78	22
QC273791	15.4170	22.1651	21.8127	95	5
of 176248-001			RPD:	0.4%	6.2%

Curtis & Tompkins Laboratories Sample Batch Report

Curtis & Tompkins, Ltd.

Batch Number: 96865
Date Started: 24-NOV-2004
Batched by : Kristen Ann Carlyon

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176248-001		Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-002		Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-003		Treadwell & Rollo	Soil	MOISTURE	02-DEC-2004
176248-004		Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176248-005		Treadwell & Rollo	Soil	MOISTURE	29-NOV-2004
176249-016		Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-017		Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-019		Innovative Technic	Soil	MOISTURE	30-NOV-2004
176249-020		Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-010		Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-011		Innovative Technic	Soil	MOISTURE	30-NOV-2004
176250-012		Innovative Technic	Soil	MOISTURE	30-NOV-2004
QC273791	SDUP of 176248-001		Soil	MOISTURE	

WET CHEMISTRY DEPARTMENT

DATA PACKAGE REVIEW CHECKLIST

Lab No: 96865 Analysis: MOISTURE

Matrix: Water ___ Soil ✓ Misc. ___ Other

I. Contents & Documentation

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		1. Sample prep information present & complete	☐	
☑	☐		2. Run logs present & complete	☐	
☑	☐		3. Sample raw data present	☐	
☑	☐		4. Standards LIMS ID's documented	☐	
☐	☐	☑	5. CAR present & complete (if necessary)	☐	☐
☑	☐		6. Analyst entries complete, legible, initialed	☐	☐

II. Sample Results

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐		7. All requested samples analyzed	☐	☐
☑	☐		8. All samples analyzed within hold	☐	☐
☑	☐		9. Units correct for sample matrix	☐	
☑	☐		10. Data transcribed correctly from raw to forms	☐	
☑	☐		11. All results within calibration range	☐	
☐	☐	☑	12. All dilutions in upper half of curve	☐	
☐	☐	☑	13. All matrix interferences documented	☐	

III. Batch QC & Calibration Checks

Yes	No	N/A		Peer Reviewed	GL Reviewed
☑	☐	☐	14. Method blank clean	☐	☐
☐	☐	☑	15. LCS/BS/BSD recoveries & RPD within QC limits	☐	☐
☑	☐	☐	16. Matrix QC performed on a sample in this batch? If not, ☐ Insufficient sample volume available for matrix QC, or ☐ Other (describe) ___	☐	☐
☑	☐	☐	17. Matrix QC recoveries &/or RPD within QC limits	☐	
☐	☐	☑	18. ICV recovery within QC limits	☐	
☐	☐	☑	19. CCV recoveries within QC limits	☐	

Comments:

☐ Additional Comments Attached

Analyst: By: D. Manuel Date: 11-24-04

Peer Review By: ___ Date: ___

Group Leader Approved: ___ Date: 11/24/04

PROJECT MOISTURE

Notebook No. 2033

Continued From Page Ø

11/23/04

96865

Sample	B.C.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	3	15.4086	—	15.4087	
176248-001	A	4	15.5434	23.9600	23.4925	Taken from B side
176248-001 DUP		46	15.4170	22.1651	21.8127	
-002		101	15.4465	23.5327	23.3143	
-003		16	14.9821	22.6910	22.5478	
-004		30	15.3700	22.9022	22.3052	
-005		134	15.0683	22.2974	21.7303	
176249-016	A	29	15.5595	22.1219	20.7060	COMP 1-3
-017		146	15.2583	22.1430	20.9833	COMP 4-6
~~-018~~		~~39~~	~~15.4996~~	~~23.0892~~	~~21.8672~~	~~Repeat COMP 8,9~~
-019		40	15.3766	22.4577	20.5272	COMP 10-12
-020		24	15.2447	22.4425	21.7245	COMP 13-15
176250-010	A	18	15.5308	23.1413	21.7477	COMP 1-3
011	A	177	15.5331	23.8455	21.9528	COMP 4-6
012	A	34	15.3151	23.8502	21.9372	COMP 7-9

Oven Temp: 104°C
Time In: 10:30 PM
Time Out: 10:30 A.M.

On: 11-24-04

Continued on Page

Read and Understood By

Kristen Carlyon 11/23/04 Signed Date

146

MM 11/24/04 Signed Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 / -

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RGM				
103°C	11-2-04	RGM				
105°C	11-3-04	RGM				
104°C	11-4-04	RGM				
105°C	11-5-04	RGM				
103°C	11-8-04	RGM				
104	~~11-9-04~~	RGM				
105°C	11-10-04	RGM				
105°C	11-11-04	RGM				
105°C	11-12-04	RGM				
105°C	11-15-04	RGM				
105°C	11-16-04	RGM				
105°C	11-17-04	RGM				
104°C	11-18-04	RGM				
104°C	11-19-04	RGM				
103°C	11-22-04	RGM				
103°C	11-23-04	RGM				
103°C	11-24-04	RGM				

000069

PROJECT METTLER A-E 200 BALANCE

Notebook No. [illegible]

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RSM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RSM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RSM	35298

Continued on Page

Read and Understood By

R. Manuel — Signed

11-22-04 — Date

Signed

Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176656

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio Baker Beach 3

Sample ID	Lab ID
BB3EX155[0.5]	176656-001
BB3-CLLAB	176656-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 12/28/04
Operations Manager

Signature: _____ Date: 12/27/04
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	176656
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio Baker Beach 3
Request Date:	12/15/04
Samples Received:	12/15/04

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 12/15/04. The samples were received intact at ambient temperature.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Low recoveries were observed for gasoline C7-C12 in the MS/MSD for batch 97478; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
High response was observed for 4,4'-DDD in the CCV analyzed 12/15/04 14:00; average CCV drift met method requirements, and this analyte was not detected at or above the RL in the associated sample. High response was observed for 4,4'-DDD in the CCV analyzed 12/15/04 22:22; average CCV drift met method requirements, and this analyte was not detected at or above the RL in the associated sample. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):
High response was observed for iron in the CCV analyzed 12/16/04 08:36; this analyte was not detected at or above the RL in the associated sample. Low recoveries were observed for antimony in the MS/MSD of BB3-CLLAB (lab # 176656-002); the BS/BSD were within limits, and the associated RPD was within limits. High % difference was observed for beryllium in the serial dilution of BB3-CLLAB (lab # 176656-002). No other analytical problems were encountered.

pH (EPA 9045C):
No analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

176656

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: Mike Chamberlain
Recorder (Signature Required):

Turnaround Time: ~~24hr~~ 48hr JGW 12-15-04

Per SES

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCB	Metals	TPH gas	TPH diesel	TPH fuel oil	pH	Silica gel clean-up	Hold	Remarks
-1 BB3-EX155[0.5]	12/15/04	1046		X						1		X									
-2 BB3-CLLAB	12/15/04	1135		X						1		X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/15/04	1155	Tom Ryan	12/15/04	1155
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: Intact/Ambient
No cooler JGW 12-15-04

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002248

4

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3-CLLAB	Diln Fac:	1.000
Matrix:	Soil	Batch#:	97478
Units:	mg/Kg	Sampled:	12/15/04
Basis:	as received	Received:	12/15/04

Type:	SAMPLE	Moisture:	** MISSING MOISTURE DATA **
Lab ID:	176656-002	Analyzed:	12/16/04

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	65-135
Bromofluorobenzene (FID)	100	65-135

Type:	BLANK	Analyzed:	12/15/04
Lab ID:	QC276275		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	65-135
Bromofluorobenzene (FID)	109	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC276277	Diln Fac:	1.000
Matrix:	Soil	Batch#:	97478
Units:	mg/Kg	Analyzed:	12/15/04

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	11.25	112	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	124	65-135
Bromofluorobenzene (FID)	113	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	176678-003	Batch#:	97478
Matrix:	Soil	Sampled:	12/15/04
Units:	mg/Kg	Received:	12/15/04
Basis:	as received	Analyzed:	12/16/04

Type: MS Lab ID: QC276426

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1274	2.123	1.169	49 *	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	65-135
Bromofluorobenzene (FID)	95	65-135

Type: MSD Lab ID: QC276427

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.088	1.209	52 *	65-135	5	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	65-135
Bromofluorobenzene (FID)	83	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176656 GCVOA Soil
Curtis & Tompkins Laboratories

Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Reviewed By: MCH
Calnum: 344466119001 Name: tvh Type: (normal) Date: 18-NOV-2004 19:46 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	323_005	344466119005	tvh1	18-NOV-2004 19:46	04WS1982 (1000X), 04WS1966 (5000X)
2	323_006	344466119006	tvh2	18-NOV-2004 20:20	04WS1983 (1000X), 04WS1966 (5000X)
3	323_007	344466119007	tvh3	18-NOV-2004 20:54	04WS1984 (1000X), 04WS1966 (5000X)
4	323_008	344466119008	tvh4	18-NOV-2004 21:27	04WS1985 (2000X), 04WS1966 (5000X)
5	323_009	344466119009	tvh5	18-NOV-2004 22:02	04WS1985 (1000X), 04WS1966 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Gasoline C7-C12	X	737.22	634.99	621.54	791.38	779.53	AVRG	R		0.001403		ng	712.93	11	0.995	20	

6

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176656 GCVOA Soil
Curtis & Tompkins Laboratories

Instid : GC19 Calname : tvh
Calnum : 344466119001 Caldate : 18-NOV-2004 Caltype :

ICV 344466119011 (323_011) standards: 04WS2154 (1000X), 04WS1966 (5000X)

Analyte	Ch	ICV Seqnum	Date	Spiked Quant	Units	%D
Gasoline C7-C12	X	344466119011	18-NOV-2004	10000.0 11032	ng	10

INITIAL CALIBRATION REPORT FOR 176656 GCVOA Soil
Curtis & Tompkins Laboratories

Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Reviewed By: MCH
Calnum: 344481535001 Name: tft/bfb Type: (normal) Date: 29-NOV-2004 14:45 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	334_005	344481535005	tft/bfb 1	29-NOV-2004 14:45	04WS1886 (5000X)
2	334_006	344481535006	tft/bfb 2	29-NOV-2004 15:19	04WS1887 (5000X)
3	334_007	344481535007	tft/bfb 3	29-NOV-2004 15:53	04WS1888 (5000X)
4	334_008	344481535008	tft/bfb 4	29-NOV-2004 16:27	04WS1889 (5000X)
5	334_009	344481535009	tft/bfb 5	29-NOV-2004 17:06	04WS1890 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Trifluorotoluene (FID)	X	753.34	734.07	708.17	614.43	654.75	AVRG	R		0.001443		ng	692.95	8	0.995	20	
Bromofluorobenzene (FID)	X	557.13	625.31	481.18	437.79	447.62	AVRG	R		0.001962		ng	509.81	16	0.995	20	

11

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 176656 GCVOA Soil
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC19	X	344504505003	15-DEC-2004 09:34	344466119001	18-NOV-2004	712.93	801.91	10000	11248	ng	12	15	u
GC19	X	344504505014	15-DEC-2004 16:18	344466119001	18-NOV-2004	712.93	695.98	15000	14643	ng	-2	15	
GC19	X	344504505029	16-DEC-2004 02:00	344466119001	18-NOV-2004	712.93	708.61	10000.0	9939.3	ng	-1	15	
GC19	X	344504505039	16-DEC-2004 07:43	344466119001	18-NOV-2004	712.93	708.71	5000.0	4970.4	ng	-1	15	

u=use

CONTINUING CALIBRATION SUMMARY FOR 176656 GCVOA Soil
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC19	X	344504505002	15-DEC-2004 08:59	344481535001	29-NOV-2004	692.95	752.30	450.00	488.54	ng	9	15	
GC19	X	344504505003	15-DEC-2004 09:34	344481535001	29-NOV-2004	692.95	857.42	450.00	556.81	ng	**24**	15	c+ u
GC19	X	344504505013	15-DEC-2004 15:44	344481535001	29-NOV-2004	692.95	650.68	450.00	422.55	ng	-6	15	
GC19	X	344504505026	16-DEC-2004 00:17	344481535001	29-NOV-2004	692.95	737.73	450.00	479.08	ng	6	15	
GC19	X	344504505038	16-DEC-2004 07:09	344481535001	29-NOV-2004	692.95	697.94	450.00	453.24	ng	1	15	

12/16/04

IN-House QC Limits:

TFT-FID-S

68-135 % Rec.

mcst 12/17/04

+=high bias c=CCV u=use

CONTINUING CALIBRATION SUMMARY FOR 176656 GCVOA Soil
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC19	X	344504505002	15-DEC-2004 08:59	344481535001	29-NOV-2004	509.81	634.02	450.00	559.64	ng	24	15	c+ PASS
GC19	X	344504505003	15-DEC-2004 09:34	344481535001	29-NOV-2004	509.81	578.37	450.00	510.52	ng	13	15	u
GC19	X	344504505013	15-DEC-2004 15:44	344481535001	29-NOV-2004	509.81	496.83	450.00	438.54	ng	-3	15	AP
GC19	X	344504505026	16-DEC-2004 00:17	344481535001	29-NOV-2004	509.81	509.48	450.00	449.72	ng	0	15	12/16/04
GC19	X	344504505038	16-DEC-2004 07:09	344481535001	29-NOV-2004	509.81	499.80	450.00	441.16	ng	-2	15	

IN-House
QC Limits

BFB-FID-5
75-148 % Rec.

[illegible] 12/17/04

+=high bias c=CCV u=use
Page 1 of 1

56
PROJECT GC19 Byrne

Notebook No. BK 1931
Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 344466119 Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Begun: 18-NOV-2004
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC SPK uL	VL	pH	Stds Used	>LR
001	323_001	CCV/LCS	QC272899	96649	Water	18-NOV-2004 16:39	1.0				1 2 No tvh	
002	323_002	CCV	minsp	96649		18-NOV-2004 17:13	1.0				3 2	
003	323_003	X	ib			18-NOV-2004 18:38	1.0				2	
004	323_004	X	ib			18-NOV-2004 19:12	1.0				2	
005	323_005	ICAL	tvh1			18-NOV-2004 19:46	1.0				4 2 PASS/USE	
006	323_006	ICAL	tvh2			18-NOV-2004 20:20	1.0				5 2	
007	323_007	ICAL	tvh3			18-NOV-2004 20:54	1.0				6 2	
008	323_008	ICAL	tvh4			18-NOV-2004 21:27	1.0				7 2	
009	323_009	ICAL	tvh5			18-NOV-2004 22:02	1.0				7 2	
010	323_010	X	ib			18-NOV-2004 22:36	1.0				2	
011	323_011	ICV	tvh			18-NOV-2004 23:10	1.0	5000			1 2 PASS	
012	323_012	X	crbmrk			18-NOV-2004 23:44	1.0				8 9 2	
013	323_013	X	ib			19-NOV-2004 00:18	1.0				2	
014	323_014	X				19-NOV-2004 06:53	1.0				2	
015	323_015	ICAL	tft/bfb 1			19-NOV-2004 07:27	1.0				10 PASS/USE	
016	323_016	ICAL	tft/bfb 2			19-NOV-2004 08:05	1.0				11	
017	323_017	ICAL	tft/bfb 3			19-NOV-2004 08:47	1.0				12	
018	323_018	ICAL	tft/bfb 4			19-NOV-2004 09:29	1.0				13	
019	323_019	ICAL	tft/bfb 5			19-NOV-2004 10:16	1.0				14	

Stds used: 1=04WS2154 2=04WS1966 3=04WS1162 4=04WS1982 5=04WS1983 6=04WS1984 7=04WS1985 8=02SS420 9=02SS421 10=04WS1886 11=04WS1887 12=04WS1888 13=04WS1889 14=04WS1890

Analyst: Date: 11.19.04
Page 1 of 1

11.19.04

Signed
Date 11/19/04
Read and Understood By
Signed
Date 11/19/04
Continued on Page

62 PROJECT GC19 Sequence by Rick

Notebook No. 8/1/04

Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 344481535 Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	334_001	X	ib			29-NOV-2004 09:35	1.0				1	
002	334_002	CCV/LCS	QC274038	96923	Soil	29-NOV-2004 10:08	1.0				2 1 Not used	
003	334_003	CCV/LCS	QC274039	96923	Soil	29-NOV-2004 10:42	1.0				3 1	
004	334_004	X	ib			29-NOV-2004 14:11	1.0				1	
005	334_005	ICAL	tft/bfb 1			29-NOV-2004 14:45	1.0				4 pass/use	
006	334_006	ICAL	tft/bfb 2			29-NOV-2004 15:19	1.0				5	
007	334_007	ICAL	tft/bfb 3			29-NOV-2004 15:53	1.0				6	
008	334_008	ICAL	tft/bfb 4			29-NOV-2004 16:27	1.0				7	
009	334_009	ICAL	tft/bfb 5			29-NOV-2004 17:06	1.0				8	

Stds used: 1=04WS1966 2=04WS2151 3=04WS2235 4=04WS1886 5=04WS1887 6=04WS1888 7=04WS1889 8=04WS1890

Analyst: _____ Date: 11/30/04
Page 1 of 1

11/30/04

Signed

11/30/04
Date

Read and Understood By

Signed

11/30/04
Date

Continued on Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 344504505 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 15-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	350_001	X	ib			15-DEC-2004 08:25	1.0						1	
002	350_002	CCV/LCS	QC276276	97478	Soil	15-DEC-2004 08:59	1.0			5000			2 1 pass	
003	350_003	CCV/LCS	QC276277	97478	Soil	15-DEC-2004 09:34	1.0		1	5000			3 1	
004	350_004	BLANK	QC276275	97478	Soil	15-DEC-2004 10:25	1.0	6		5000			1	
005	350_005	SAMPLE	176639-001	97478	Soil	15-DEC-2004 11:09	1.0			5000			1	
006	350_006	SAMPLE	176639-004	97478	Soil	15-DEC-2004 11:44	1.0	2		5000			1	3:GAS:7-*61454.0
007	350_007	SAMPLE	176639-005	97478	Soil	15-DEC-2004 12:18	20.0		1	5000			1	
008	350_008	X	meoh blk	97478		15-DEC-2004 12:52	5.0						1	
009	350_009	SAMPLE	176639-006	97478	Soil	15-DEC-2004 13:26	20.0		1	5000			1	
010	350_010	SAMPLE	176639-003	97478	Soil	15-DEC-2004 14:00	10.0	1		5000			1	1:GAS:7-*52022.3
011	350_011	SAMPLE	176639-002	97478	Soil	15-DEC-2004 14:35	5.0		1	5000			1	
012	350_012	SAMPLE	176639-003	97478	Soil	15-DEC-2004 15:09	20.0		1	5000			1	
013	350_013	CCV	mbtxe	97478		15-DEC-2004 15:44	1.0	2		5000			2 1 pass	
014	350_014	CCV	tvh	97478		15-DEC-2004 16:18	1.0			5000			3 1	
015	350_015	X	mbtxe	97478		15-DEC-2004 16:52	1.0						4 1	
016	350_016	SAMPLE	176639-001	97478	Soil	15-DEC-2004 17:40	5.0			5000			1	
017	350_017	SAMPLE	176639-004	97478	Soil	15-DEC-2004 18:14	5.0			5000			1	
018	350_018	SAMPLE	176678-005	97478	Soil	15-DEC-2004 19:43	1.0		3	5000			1	
019	350_019	SAMPLE	176678-007	97478	Soil	15-DEC-2004 20:17	1.0			5000			1	
020	350_020	SAMPLE	176678-009	97478	Soil	15-DEC-2004 20:51	1.0			5000			1	
021	350_021	SAMPLE	176678-011	97478	Soil	15-DEC-2004 21:25	1.0			5000			1	
022	350_022	MSS	176678-003	97478	Soil	15-DEC-2004 22:00	1.0	4		5000			1	
023	350_023	SAMPLE	176678-014	97478	Soil	15-DEC-2004 22:34	1.0		4	5000			1	
024	350_024	SAMPLE	176678-016	97478	Soil	15-DEC-2004 23:08	1.0		3	5000			1	
025	350_025	SAMPLE	176678-018	97478	Soil	15-DEC-2004 23:43	1.0			5000			1	
026	350_026	CCV	mbtxe	97478		16-DEC-2004 00:17	1.0			5000			2 1 pass	
027	350_027	CCV	mbtxe	97478		16-DEC-2004 00:51	1.0			5000			2 1	
028	350_028	CCV	tvh	97478		16-DEC-2004 01:26	1.0			5000			3 1	
029	350_029	CCV	tvh	97478		16-DEC-2004 02:00	1.0			5000			3 1	
030	350_030	SAMPLE	176678-021	97478	Soil	16-DEC-2004 02:34	1.0			5000			1	

Stds used: 1=04WS2266 2=04WS2369 3=04WS2235 4=04WS2151

Analyst: Date: 12/16/04
Page 1 of 2

12/16/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 344504505 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 15-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
031	350_031	SAMPLE	176678-023	97478	Soil	16-DEC-2004 03:08	1.0			5000			1	
032	350_032	SAMPLE	176678-024	97478	Soil	16-DEC-2004 03:43	1.0			5000			1	
033	350_033	SAMPLE	176678-025	97478	Soil	16-DEC-2004 04:17	1.0		4	5000			1	
034	350_034	SAMPLE	176656-002	97478	Soil	16-DEC-2004 04:51	1.0			5000			1	
035	350_035	SAMPLE	176678-013	97478	Soil	16-DEC-2004 05:26	1.0	1		5000			1	
036	350_036	MS	QC276426	97478	Soil	16-DEC-2004 06:00	1.0		1	5000			3 1 pass	
037	350_037	X	QC276427	97478	Soil	16-DEC-2004 06:34	1.0			5000			3 1 not used	
038	350_038	CCV	mbtxe	97478		16-DEC-2004 07:09	1.0	3		5000			2 1 pass	
039	350_039	CCV	tvh	97478		16-DEC-2004 07:43	1.0			5000			3.1	
040	350_040	SAMPLE	176678-016	97478	Soil	16-DEC-2004 09:25	1.0		5	5000			1	
041	350_041	SAMPLE	176678-018	97478	Soil	16-DEC-2004 09:59	1.0			5000			1	
042	350_042	SAMPLE	176678-014	97478	Soil	16-DEC-2004 10:34	1.0		3	5000			1	
043	350_043	SAMPLE	176678-025	97478	Soil	16-DEC-2004 11:08	1.0		3	5000			1	
044	350_044	X	QC276426	97478	Soil	16-DEC-2004 11:42	1.0			5000			3 1 not used	
045	350_045	MSD	QC276427	97478	Soil	16-DEC-2004 12:17	1.0	3		5000			3 1 pass	
046	350_046	CCV	mbtxe	97478		16-DEC-2004 12:51	1.0	1		5000			2 1	
047	350_047	CCV	tvh	97478		16-DEC-2004 13:25	1.0			5000			3 1	

Same user in QC = EM128974 - M10/01/04

12/16/04

Stds used: 1=04WS2266 2=04WS2369 3=04WS2235 4=04WS2151

Analyst: Date: 12/16/04
Page 2 of 2

Continued on Page

Read and Understood By

Signed 12/16/04 Date Signed 12/16/04 Date

REPORTING SUMMARY FOR 176656 TVH Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	F3BZ	BR4F	
176656-002	GC19	12/16/04 04:51	1.0	+	+	+	
QC276275	GC19	12/15/04 10:25	1.0	+	+	+	
QC276276	GC19	12/15/04 08:59	1.0				
QC276277	GC19	12/15/04 09:34	1.0	+	+	+	
QC276426	GC19	12/16/04 06:00	1.0	+	+	+	
QC276427	GC19	12/16/04 12:17	1.0	+	+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97478
Date Started: 15-DEC-2004
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
176639-001			Tan Phung Associat	Soil	EBTXE, ETVH	17-DEC-2004
176639-002			Tan Phung Associat	Soil	EBTXE, ETVH	17-DEC-2004
176639-003			Tan Phung Associat	Soil	EBTXE, ETVH	17-DEC-2004
176639-004			Tan Phung Associat	Soil	EBTXE, ETVH	17-DEC-2004
176639-005			Tan Phung Associat	Soil	EBTXE, ETVH	17-DEC-2004
176639-006			Tan Phung Associat	Soil	EBTXE, ETVH	17-DEC-2004
176656-002			Treadwell & Rollo	Soil	TVH	17-DEC-2004
176678-003			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-005			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-007			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-009			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-011			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-013			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-014			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-016			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-018			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-021			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-023			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-024			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
176678-025			Tan Phung Associat	Soil	EBTXE, ETVH	20-DEC-2004
QC276275	MB			Soil		
QC276276	LCS			Soil		
QC276277	LCS			Soil		
QC276426	MS	of 176678-003		Soil		
QC276427	MSD	of 176678-003		Soil		

20

PROJECT Wt/Bkx Soil Weight by Buck

Notebook No. BK-1963

Continued From Page

Sample ID/Core/Jar	Weight (g)	Comp(?)	Nitrate(?)	Initials & DATE
176639-001 B	4.83	NO	NO	Apr 12/15/04
001	4.69			
176656-002 A	8.92	No	No	DA 12/15/04
MS of 176656-002 A	8.94			
MSD of 176656-002 A	0.94			
176559-005 cap	1.00			
-010 cap	1.00			
-015 cap	0.97			
-020 cap	0.98			
MS of 176559-010 cap	0.93			
MSD of 176559-010 cap	0.92			
176678-001 B	4.43	No		
-005 B	5.58			
-007 B	4.18			
-009 B	3.76			
-011 B	4.54			
-013 B	3.22			
-014 B	4.95			
-016 B	4.76			
-019 B	3.97			
-021 B	4.44			
-023 B	5.10			
-024 B	3.73			
-025 B	5.01			
-003 B	5.31			
MS of 176678-003 C	4.71			
MSD of 176678-003 D	5.15			
176678-004 C	5.77	No	No	mmp 12/16/04
-016	5.60			
-028	5.81			
-025	5.17			
MS of 176678-003 E	5.39			
MSD F	4.79			

Continued on Page

Read and Understood By

Signed | Date | Signed | Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil

Analyte	Units	GC04 J		GC05 G		GC07 A		GC19 X	
Gasoline C7-C12	mg/Kg	02/03/04	0.057	07/12/04	0.022	11/10/04	0.12	12/19/03	0.067
Gasoline C6-C10	mg/Kg	02/03/04	0.044	07/12/04	0.057	11/10/04	0.10	12/19/03	0.051
Gasoline C6-C12	mg/Kg	02/03/04	0.049	07/12/04	0.042	11/10/04	0.10	12/19/03	0.063
JP-4 C7-C12	mg/Kg	02/04/04	0.024	12/04/03	0.095	02/10/04	0.025	02/09/04	0.048

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3-CLLAB	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04
Units:	mg/Kg	Prepared:	12/15/04
Diln Fac:	1.000	Analyzed:	12/16/04
Batch#:	97521		

Type:	SAMPLE	Moisture:	16%
Lab ID:	176656-002	Cleanup Method:	EPA 3630C
Basis:	dry		

Analyte	Result	RL
Diesel C12-C24	ND	1.2
Motor Oil C24-C36	ND	5.9

Surrogate	%REC	Limits
Hexacosane	84	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC276442	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	97	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276443	Batch#:	97521
Matrix:	Soil	Prepared:	12/15/04
Units:	mg/Kg	Analyzed:	12/16/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	50.09	50.03	100	65-135

Surrogate	%REC	Limits
Hexacosane	105	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	SHAKER TABLE
Project#:	2893.12	Analysis:	EPA 8015B
Field ID:	BB3-CLLAB	Batch#:	97521
MSS Lab ID:	176656-002	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04
Units:	mg/Kg	Prepared:	12/15/04
Basis:	dry	Analyzed:	12/16/04
Diln Fac:	1.000		

Type:	MS	Moisture:	16%
Lab ID:	QC276444	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	1.159	59.52	66.48	110	65-135

Surrogate	%REC	Limits
Hexacosane	105	65-135

Type:	MSD	Moisture:	16%
Lab ID:	QC276445	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	59.15	51.34	85	65-135	25	35

Surrogate	%REC	Limits
Hexacosane	83	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114491750001 Name: dsl Type: (normal) Date: 06-DEC-2004 12:48 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	341a003	114491750003	dsl10	06-DEC-2004 12:48	04WS1748
2	341a004	114491750004	dsl100	06-DEC-2004 13:18	04WS1747
3	341a005	114491750005	dsl250	06-DEC-2004 13:47	04WS1221
4	341a006	114491750006	dsl500	06-DEC-2004 14:16	04WS1745
5	341a007	114491750007	dsl1000	06-DEC-2004 14:46	04WS1744
6	341a008	114491750008	dsl2500	06-DEC-2004 15:15	04WS1743
7	341a009	114491750009	dsl5000	06-DEC-2004 15:44	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	18379	24186	27245	25337	24468	24098	23515	AVRG R		4.186E-5		mg/L	23890	11	0.995	20	

26

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC11A Calname : dsl
Calnum : 114491750001 Caldate : 06-DEC-2004 Caltype :

ICV 114491750011 (341a011) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	114491750011	06-DEC-2004	500.00	468.85	mg/L	-6

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114506134001 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 12:04 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	351a002	114506134002	hex5	16-DEC-2004 12:04	04WS2042
2	351a003	114506134003	hex10	16-DEC-2004 12:33	04WS2043
3	351a004	114506134004	hex25	16-DEC-2004 13:02	04WS2044
4	351a005	114506134005	hex50	16-DEC-2004 13:31	04WS2045
5	351a006	114506134006	hex75	16-DEC-2004 14:00	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	29511	28377	29932	29897	29504	AVRG R		3.396E-5		mg/L	29444	2	0.995	20	

28

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By:
Calnum: 144505030001 Name: Diesel Type: (normal) Date: 15-DEC-2004 18:05 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b003	144505030003	dsl10	15-DEC-2004 18:05	04WS2298
2	350b004	144505030004	dsl100	15-DEC-2004 18:33	04WS2299
3	350b005	144505030005	dsl250	15-DEC-2004 19:01	04WS2300
4	350b006	144505030006	dsl1000	15-DEC-2004 19:29	04WS2302
5	350b007	144505030007	dsl2500	15-DEC-2004 19:58	04WS2303
6	350b008	144505030008	dsl5000	15-DEC-2004 20:26	04WS2297
7	350b027	144505030027	dsl	16-DEC-2004 14:00	04WS2389

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	14347	19586	18288	18764	17524	18785	18705	AVRG R		5.556E-5		mg/L	18000	10	0.995	20	

29

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC13B Calname : Diesel
Calnum : 144505030001 Caldate : 15-DEC-2004 Caltype :

ICV 144505030029 (350b029) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	144505030029	16-DEC-2004	500.00	472.33	mg/L	-6

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By:
Calnum: 144505030002 Name: Motor Oil Type: (normal) Date: 15-DEC-2004 21:22 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b010	144505030010	mo50	15-DEC-2004 21:22	04WS2172
2	350b011	144505030011	mo250	15-DEC-2004 21:50	04WS2173
3	350b012	144505030012	mo500	15-DEC-2004 22:18	04WS2174
4	350b013	144505030013	mo1000	15-DEC-2004 22:46	04WS2175
5	350b014	144505030014	mo2500	15-DEC-2004 23:14	04WS2176
6	350b015	144505030015	mo5000	15-DEC-2004 23:43	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	12925	13361	13764	12705	11990	7534.8	AVRG R		8.301E-5		mg/L	12047	19	0.995	20	

31

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By:
Calnum: 144505030003 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 00:39 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b017	144505030017	hex5	16-DEC-2004 00:39	04WS2042
2	350b018	144505030018	hex10	16-DEC-2004 01:07	04WS2043
3	350b019	144505030019	hex25	16-DEC-2004 01:35	04WS2044
4	350b020	144505030020	hex50	16-DEC-2004 02:04	04WS2045
5	350b026	144505030026	hex75	16-DEC-2004 12:15	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	22429	20066	21474	22789	22529	AVRG R		4.575E-5		mg/L	21858	5	0.995	20	

32

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 164481758001 Name: dsl Type: (normal) Date: 29-NOV-2004 22:22 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	334b011	164481758011	dsl10	29-NOV-2004 22:22	04WS1748
2	334b012	164481758012	dsl100	29-NOV-2004 22:51	04WS1747
3	334b013	164481758013	dsl250	29-NOV-2004 23:20	04WS1746
4	334b014	164481758014	dsl500	29-NOV-2004 23:49	04WS1745
5	334b015	164481758015	dsl1000	30-NOV-2004 00:17	04WS1744
6	334b016	164481758016	dsl2500	30-NOV-2004 00:46	04WS1743
7	334b017	164481758017	dsl5000	30-NOV-2004 01:15	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	13473	19134	20624	19469	19728	20682	20027	AVRG	R		5.258E-5		mg/L	19020	13	0.995	20	

33

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC15B Calname : dsl
Calnum : 164481758001 Caldate : 29-NOV-2004 Caltype :

ICV 164481758019 (334b019) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	164481758019	30-NOV-2004	500.00	500.73	mg/L	0

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 164481758003 Name: mo Type: (normal) Date: 30-NOV-2004 09:12 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	334b021	164481758021	mo50	30-NOV-2004 09:12	04WS2172
2	334b022	164481758022	mo250	30-NOV-2004 09:40	04WS2173
3	334b023	164481758023	mo500mg/L	30-NOV-2004 10:24	04WS2174
4	334b024	164481758024	mo1000	30-NOV-2004 10:53	04WS2175
5	334b025	164481758025	mo2500	30-NOV-2004 11:22	04WS2176
6	334b026	164481758026	mo5000	30-NOV-2004 11:50	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	14493	16924	16224	16197	12571	9857.1	AVRG R		6.955E-5		mg/L	14378	19	0.995	20	

35

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 164481758004 Name: hexacosane Type: (normal) Date: 30-NOV-2004 12:48 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	334b028	164481758028	hex5	30-NOV-2004 12:48	04WS2042
2	334b029	164481758029	hex10	30-NOV-2004 13:17	04WS2043
3	334b030	164481758030	hex25	30-NOV-2004 13:45	04WS2044
4	334b031	164481758031	hex50	30-NOV-2004 14:14	04WS2045
5	334b032	164481758032	hex75	30-NOV-2004 14:43	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	27578	24798	24573	25301	28657	AVRG R		3.820E-5		mg/L	26181	7	0.995	20	

36

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114506134008	16-DEC-2004 15:41	114491750001	06-DEC-2004	23890	26296	500.00	550.36	mg/L	10	15	
GC11A	A	114506134020	16-DEC-2004 21:36	114491750001	06-DEC-2004	23890	25920	1000.0	1085.0	mg/L	9	15	
GC13B	B	144506485003	16-DEC-2004 18:21	144505030001	15-DEC-2004	18000	17393	500.00	483.13	mg/L	-3	15	
GC13B	B	144506485015	17-DEC-2004 00:28	144505030001	15-DEC-2004	18000	19681	1000.0	1093.4	mg/L	9	15	
GC15B	B	164506037015	16-DEC-2004 17:05	164481758001	29-NOV-2004	19020	21400	1000.0	1125.2	mg/L	13	15	
GC15B	B	164506037027	16-DEC-2004 23:56	164481758001	29-NOV-2004	19020	20416	250.00	268.35	mg/L	7	15	

CONTINUING CALIBRATION SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg Rf/CF	Rf/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC13B	B	144506485004	16-DEC-2004 18:49	144505030002	15-DEC-2004	12047	13393	500.00	555.89	mg/L	11	15	
GC13B	B	144506485016	17-DEC-2004 00:57	144505030002	15-DEC-2004	12047	13311	500.00	552.49	mg/L	10	15	
GC15B	B	164506037016	16-DEC-2004 17:34	164481758003	30-NOV-2004	14378	14430	500.00	501.82	mg/L	0	15	
GC15B	B	164506037028	17-DEC-2004 00:25	164481758003	30-NOV-2004	14378	13671	500.00	475.44	mg/L	-5	15	

CONTINUING CALIBRATION SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Catnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114506134008	16-DEC-2004 15:41	114506134001	16-DEC-2004	29444	30149	50.000	51.198	mg/L	2	15	
GC11A	A	114506134020	16-DEC-2004 21:36	114506134001	16-DEC-2004	29444	31179	50.000	52.945	mg/L	6	15	
GC13B	B	144506485003	16-DEC-2004 18:21	144505030003	16-DEC-2004	21858	21952	50.000	50.216	mg/L	0	15	
GC13B	B	144506485015	17-DEC-2004 00:28	144505030003	16-DEC-2004	21858	24497	50.000	56.038	mg/L	12	15	
GC15B	B	164506037015	16-DEC-2004 17:05	164481758004	30-NOV-2004	26181	25867	50.000	49.400	mg/L	-1	15	
GC15B	B	164506037027	16-DEC-2004 23:56	164481758004	30-NOV-2004	26181	24785	50.000	47.333	mg/L	-5	15	

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164481758 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	334b001	X	primer			29-NOV-2004 13:18	1.0							
002	334b002	X	ib			29-NOV-2004 13:47	1.0							
003	334b003	X	c10-16			29-NOV-2004 14:52	1.0							
004	334b004	X	c12-60			29-NOV-2004 15:21	1.0							
005	334b005	X	c50			29-NOV-2004 15:50	1.0							
006	334b006	X	ib			29-NOV-2004 16:19	1.0							
007	334b007	CCV	dsl			29-NOV-2004 16:48	1.0	7		3			1	
008	334b008	CCV	mo			29-NOV-2004 17:16	1.0	4		3			2	
009	334b009	CCV	dsl			29-NOV-2004 17:45	1.0						3	
010	334b010	X	ib			29-NOV-2004 21:54	1.0							
011	334b011	ICAL	dsl10			29-NOV-2004 22:22	1.0						4	
012	334b012	ICAL	dsl100			29-NOV-2004 22:51	1.0						5	
013	334b013	ICAL	dsl250			29-NOV-2004 23:20	1.0						6	
014	334b014	ICAL	dsl500			29-NOV-2004 23:49	1.0						7	
015	334b015	ICAL	dsl1000			30-NOV-2004 00:17	1.0						8	
016	334b016	ICAL	dsl2500			30-NOV-2004 00:46	1.0						9	
017	334b017	ICAL	dsl5000			30-NOV-2004 01:15	1.0						10	
018	334b018	X	ib			30-NOV-2004 01:43	1.0							
019	334b019	ICV	dsl			30-NOV-2004 08:15	1.0			3			11	
020	334b020	X	ib			30-NOV-2004 08:43	1.0							
021	334b021	ICAL	mo50			30-NOV-2004 09:12	1.0						12	
022	334b022	ICAL	mo250			30-NOV-2004 09:40	1.0						13	
023	334b023	ICAL	mo500mg/L			30-NOV-2004 10:24	1.0						14	
024	334b024	ICAL	mo1000			30-NOV-2004 10:53	1.0						15	
025	334b025	ICAL	mo2500			30-NOV-2004 11:22	1.0						16	
026	334b026	ICAL	mo5000			30-NOV-2004 11:50	1.0						17	
027	334b027	X	ib			30-NOV-2004 12:19	1.0							
028	334b028	ICAL	hex5			30-NOV-2004 12:48	1.0						18	
029	334b029	ICAL	hex10			30-NOV-2004 13:17	1.0						19	

Stds used: 1=04WS1975 2=04WS1972 3=04WS2215 4=04WS1748 5=04WS1747 6=04WS1746 7=04WS1745 8=04WS1744 9=04WS1743 10=04WS1742 11=04WS2006 12=04WS2172 13=04WS2173 14=04WS2174 15=04WS2175 16=04WS2176 17=04WS2169 18=04WS2042 19=04WS2043 20=04WS2044 21=04WS2045 22=04WS2046 23=04WS2251 24=04WS2252 25=04WS2253 26=04WS2254 27=04WS2255 28=04WS2256 29=04WS2250 30=04WS2195 31=04WS1817

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164481758 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 29-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
030	334b030	ICAL	hex25			30-NOV-2004 13:45	1.0					20	
031	334b031	ICAL	hex50			30-NOV-2004 14:14	1.0					21	
032	334b032	ICAL	hex75			30-NOV-2004 14:43	1.0					22	
033	334b033	X	ib			30-NOV-2004 15:12	1.0						
034	334b034	ICAL	jet10			30-NOV-2004 15:41	1.0					23	
035	334b035	ICAL	jet100			30-NOV-2004 16:10	1.0					24	
036	334b036	ICAL	jet500			30-NOV-2004 16:39	1.0					25	
037	334b037	ICAL	jet1000			30-NOV-2004 17:08	1.0					26	
038	334b038	ICAL	jet2000			30-NOV-2004 17:37	1.0					27	
039	334b039	ICAL	jet3000			30-NOV-2004 18:06	1.0					28	
040	334b040	ICAL	jet5000			30-NOV-2004 18:35	1.0					29	
041	334b041	X	ib			30-NOV-2004 19:04	1.0						
042	334b042	CCV	dsl			30-NOV-2004 19:34	1.0					3	
043	334b043	CCV	mo			30-NOV-2004 20:03	1.0	3	3			30	
044	334b044	CCV	dsl			30-NOV-2004 20:32	1.0	2	3			3	
045	334b045	CCV	jet			30-NOV-2004 21:01	1.0		3			31	

Stds used: 1=04WS1975 2=04WS1972 3=04WS2215 4=04WS1748 5=04WS1747 6=04WS1746 7=04WS1745 8=04WS1744 9=04WS1743 10=04WS1742 11=04WS2006 12=04WS2172 13=04WS2173 14=04WS2174 15=04WS2175 16=04WS2176 17=04WS2169 18=04WS2042 19=04WS2043 20=04WS2044 21=04WS2045 22=04WS2046 23=04WS2251 24=04WS2252 25=04WS2253 26=04WS2254 27=04WS2255 28=04WS2256 29=04WS2250 30=04WS2195 31=04WS1817

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	341a001	X	primer			06-DEC-2004 11:50	1.0				
002	341a002	X	ib			06-DEC-2004 12:19	1.0				
003	341a003	ICAL	dsl10			06-DEC-2004 12:48	1.0	1.0		1	
004	341a004	ICAL	dsl100			06-DEC-2004 13:18	1.0	1.0		2	
005	341a005	ICAL	dsl250			06-DEC-2004 13:47	1.0	1.0		3	
006	341a006	ICAL	dsl500			06-DEC-2004 14:16	1.0	1.0		4	
007	341a007	ICAL	dsl1000			06-DEC-2004 14:46	1.0	1.0		5	
008	341a008	ICAL	dsl2500			06-DEC-2004 15:15	1.0	1.0		6	
009	341a009	ICAL	dsl5000			06-DEC-2004 15:44	1.0	1.0		7	
010	341a010	X	ib			06-DEC-2004 16:14	1.0				
011	341a011	ICV	dsl			06-DEC-2004 16:43	1.0	1.0	3	8	
012	341a012	CCV	dsl			06-DEC-2004 17:13	1.0	1.0	3	9	
013	341a013	CCV	mo			06-DEC-2004 17:42	1.0	1.0	3	10	
014	341a014	SAMPLE	176268-029	97153	Water	06-DEC-2004 18:45	1.0	0.005	3		
015	341a015	SAMPLE	176363-015 S	97153	Water	06-DEC-2004 19:14	1.0	0.005	3		
016	341a016	SAMPLE	176363-012 S	97153	Water	06-DEC-2004 19:43	1.0	0.005	3		
017	341a017	SAMPLE	176363-009 S	97153	Water	06-DEC-2004 20:13	1.0	0.005	3		
018	341a018	SAMPLE	176363-006 S	97153	Water	06-DEC-2004 20:42	1.0	0.005	3		
019	341a019	SAMPLE	176363-003 S	97153	Water	06-DEC-2004 21:11	1.0	0.005	3		
020	341a020	SAMPLE	176268-012	97155	Soil	06-DEC-2004 21:41	1.0	0.1001	3		
021	341a021	SAMPLE	176268-009	97155	Soil	06-DEC-2004 22:10	1.0	0.09915	3		
022	341a022	SAMPLE	176268-015	97155	Soil	06-DEC-2004 22:40	1.0	0.0995	3		
023	341a023	SAMPLE	176341-001	97146	Soil	06-DEC-2004 23:09	50.0	0.1000	3		1:BUNKC:=5196.67
024	341a024	CCV	dsl			06-DEC-2004 23:38	1.0	1.0	3	11	
025	341a025	CCV	mo			07-DEC-2004 00:07	1.0	1.0	3	12	
026	341a026	X	ccv			07-DEC-2004 00:37	1.0			11	
027	341a027	SAMPLE	176268-010	97155	Soil	07-DEC-2004 01:06	2.0	0.09992	3		
028	341a028	SAMPLE	176268-013	97155	Soil	07-DEC-2004 01:36	1.0	0.09917	3		
029	341a029	SAMPLE	176268-017	97155	Soil	07-DEC-2004 02:06	5.0	0.09976	3		
030	341a030	SAMPLE	176268-002	97146	Soil	07-DEC-2004 02:35	1.0	0.09911	3		
031	341a031	SAMPLE	176268-014	97155	Soil	07-DEC-2004 03:05	3.0	0.0994	3		

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	341a032	SAMPLE	176402-001	97155	Soil	07-DEC-2004 03:35	5.0	0.1007	2	1	3	10:BUNKC:=37347.2	
033	341a033	SAMPLE	176268-001	97146	Soil	07-DEC-2004 04:04	2.0	0.1001			3		
034	341a034	SAMPLE	176402-002	97155	Soil	07-DEC-2004 04:34	10.0	0.1008			3	1:BUNKC:=15515.6	
035	341a035	SAMPLE	176268-011	97155	Soil	07-DEC-2004 05:03	20.0	0.1981			3		
036	341a036	SAMPLE	176268-016	97155	Soil	07-DEC-2004 05:33	1.0	0.09968			3		
037	341a037	CCV	dsl			07-DEC-2004 06:02	1.0	1.0			3	13	
038	341a038	CCV	mo			07-DEC-2004 06:32	1.0	1.0			3	12	
039	341a039	X	ccv			07-DEC-2004 07:01	1.0					13	

43

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144505030 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 15-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	350b001	X	primer			15-DEC-2004 17:10	1.0						
002	350b002	X	ib			15-DEC-2004 17:37	1.0						
003	350b003	ICAL	dsl10			15-DEC-2004 18:05	1.0					1	
004	350b004	ICAL	dsl100			15-DEC-2004 18:33	1.0					2	
005	350b005	ICAL	dsl250			15-DEC-2004 19:01	1.0					3	
006	350b006	ICAL	dsl1000			15-DEC-2004 19:29	1.0					4	
007	350b007	ICAL	dsl2500			15-DEC-2004 19:58	1.0					5	
008	350b008	ICAL	dsl5000			15-DEC-2004 20:26	1.0					6	
009	350b009	X	ib			15-DEC-2004 20:54	1.0						
010	350b010	ICAL	mo50			15-DEC-2004 21:22	1.0					7	
011	350b011	ICAL	mo250			15-DEC-2004 21:50	1.0					8	
012	350b012	ICAL	mo500			15-DEC-2004 22:18	1.0					9	
013	350b013	ICAL	mo1000			15-DEC-2004 22:46	1.0					10	
014	350b014	ICAL	mo2500			15-DEC-2004 23:14	1.0					11	
015	350b015	ICAL	mo5000			15-DEC-2004 23:43	1.0					12	
016	350b016	X	ib			16-DEC-2004 00:11	1.0						
017	350b017	ICAL	hex5			16-DEC-2004 00:39	1.0					13	
018	350b018	ICAL	hex10			16-DEC-2004 01:07	1.0					14	
019	350b019	ICAL	hex25			16-DEC-2004 01:35	1.0					15	
020	350b020	ICAL	hex50			16-DEC-2004 02:04	1.0					16	
021	350b021	X	ib			16-DEC-2004 02:32	1.0						
022	350b022	ICV	dsl			16-DEC-2004 03:00	1.0					17	
023	350b023	CCV	dsl			16-DEC-2004 03:28	1.0					18	
024	350b024	CCV	mo			16-DEC-2004 03:56	1.0					19	
025	350b025	X	ib			16-DEC-2004 11:47	1.0						
026	350b026	ICAL	hex75			16-DEC-2004 12:15	1.0					20	
027	350b027	ICAL	dsl			16-DEC-2004 14:00	1.0					21	
028	350b028	X	ib			16-DEC-2004 14:27	1.0						
029	350b029	ICV	dsl			16-DEC-2004 14:55	1.0		3			17	

Stds used: 1=04WS2298 2=04WS2299 3=04WS2300 4=04WS2302 5=04WS2303 6=04WS2297 7=04WS2172 8=04WS2173 9=04WS2174 10=04WS2175 11=04WS2176 12=04WS2169 13=04WS2042 14=04WS2043 15=04WS2044 16=04WS2045 17=04WS2006 18=04WS2215 19=04WS2365 20=04WS2046 21=04WS2389

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114506134 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC SPK uL	Stds Used	>LR
001	351a001	X	ib			16-DEC-2004 11:34	1.0				
002	351a002	ICAL	hex5			16-DEC-2004 12:04	1.0	1.0		1	
003	351a003	ICAL	hex10			16-DEC-2004 12:33	1.0	1.0		2	
004	351a004	ICAL	hex25			16-DEC-2004 13:02	1.0	1.0		3	
005	351a005	ICAL	hex50			16-DEC-2004 13:31	1.0	1.0		4	
006	351a006	ICAL	hex75			16-DEC-2004 14:00	1.0	1.0		5	
007	351a007	X	ib			16-DEC-2004 15:12	1.0				
008	351a008	CCV	dsl			16-DEC-2004 15:41	1.0	1.0	3	6	
009	351a009	CCV	mo			16-DEC-2004 16:10	1.0	1.0	3	7	
010	351a010	SAMPLE	176613-016	97463	Soil	16-DEC-2004 16:44	1.0	0.0994	3		
011	351a011	SAMPLE	176613-014	97463	Soil	16-DEC-2004 17:13	1.0	0.1000	3		
012	351a012	SAMPLE	176613-011	97463	Soil	16-DEC-2004 17:42	1.0	0.09901	3		
013	351a013	SAMPLE	176613-010	97463	Soil	16-DEC-2004 18:12	1.0	0.09994	3		
014	351a014	SAMPLE	176613-008	97463	Soil	16-DEC-2004 18:41	1.0	0.09917	3		
015	351a015	SAMPLE	176613-006	97463	Soil	16-DEC-2004 19:10	1.0	0.09992	3		
016	351a016	SAMPLE	176613-004	97463	Soil	16-DEC-2004 19:39	1.0	0.09944	3		
017	351a017	SAMPLE	176613-003	97463	Soil	16-DEC-2004 20:08	1.0	0.09932	3		
018	351a018	SAMPLE	176613-001	97463	Soil	16-DEC-2004 20:38	1.0	0.09998	3		
019	351a019	LCS	QC276443 S	97521	Soil	16-DEC-2004 21:07	1.0	0.1002	3		
020	351a020	CCV	dsl			16-DEC-2004 21:36	1.0	1.0	3	8	
021	351a021	CCV	mo			16-DEC-2004 22:06	1.0	1.0	3	7	
022	351a022	X	ccv			16-DEC-2004 22:35	1.0			8	

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2215 7=04WS2365 8=04WS2207

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144506485 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	351b001	X	primer			16-DEC-2004 17:25	1.0						
002	351b002	X	ib			16-DEC-2004 17:53	1.0						
003	351b003	CCV	dsl			16-DEC-2004 18:21	1.0	1.0			3	1	
004	351b004	CCV	mo			16-DEC-2004 18:49	1.0	1.0	1		3	2	
005	351b005	BLANK	QC276394	97507	Soil	16-DEC-2004 19:49	1.0	0.1005	10		3		
006	351b006	BLANK	QC276442 S	97521	Soil	16-DEC-2004 20:16	1.0	0.09927	10		3		
007	351b007	LCS	QC276395	97507	Soil	16-DEC-2004 20:44	1.0	0.1006			3		
008	351b008	SAMPLE	176581-003	97507	Soil	16-DEC-2004 21:12	1.0	0.1003			3		
009	351b009	SAMPLE	176581-004	97507	Soil	16-DEC-2004 21:40	1.0	0.1003			3		
010	351b010	SAMPLE	176497-007	97507	Soil	16-DEC-2004 22:08	1.0	0.0997			3		
011	351b011	SAMPLE	176497-009	97507	Soil	16-DEC-2004 22:36	1.0	0.09942			3		
012	351b012	SAMPLE	176497-006	97507	Soil	16-DEC-2004 23:05	1.0	0.09923			3		
013	351b013	SAMPLE	176497-013	97507	Soil	16-DEC-2004 23:32	1.0	0.0998			3		
014	351b014	SAMPLE	176497-014	97507	Soil	17-DEC-2004 00:00	1.0	0.1003	2	1	3		8:DSL:12=8680.34
015	351b015	CCV	dsl			17-DEC-2004 00:28	1.0	1.0			3	3	
016	351b016	CCV	mo			17-DEC-2004 00:57	1.0	1.0	1		3	2	
017	351b017	X	ccv			17-DEC-2004 01:24	1.0					3	
018	351b018	SAMPLE	176497-015	97507	Soil	17-DEC-2004 01:53	1.0	0.0998		1	3		
019	351b019	SAMPLE	176497-003	97507	Soil	17-DEC-2004 02:20	1.0	0.0999			3		
020	351b020	SAMPLE	176576-002 S	97419	Water	17-DEC-2004 02:48	2.0	0.005		1	3		
021	351b021	MSS	176639-003	97507	Soil	17-DEC-2004 03:16	10.0	0.09964	10		3		
022	351b022	SAMPLE	176497-012	97507	Soil	17-DEC-2004 03:44	10.0	0.09964			3		
023	351b023	SAMPLE	176497-001	97507	Soil	17-DEC-2004 04:12	1.0	0.09994			3		
024	351b024	SAMPLE	176497-008	97507	Soil	17-DEC-2004 04:40	20.0	0.1002			3		
025	351b025	SAMPLE	176497-010	97507	Soil	17-DEC-2004 05:08	2.0	0.09954			3		
026	351b026	SAMPLE	176497-011	97507	Soil	17-DEC-2004 05:36	20.0	0.09925			3		
027	351b027	SAMPLE	176639-001	97507	Soil	17-DEC-2004 06:03	1.0	0.09984	2	1	3		12:DSL:12=12609.8
028	351b028	CCV	dsl			17-DEC-2004 06:31	1.0	1.0			3	4	
029	351b029	CCV	mo			17-DEC-2004 06:59	1.0	1.0	1		3	2	
030	351b030	X	ccv			17-DEC-2004 07:27	1.0					4	
031	351b031	X	ib			17-DEC-2004 07:54	1.0						

Stds used: 1=04WS2215 2=04WS2365 3=04WS2207 4=04WS2258

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 144506485 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used >LR
032	351b032	SAMPLE	176639-002	97507	Soil	17-DEC-2004 08:27	20.0	0.0995	1		3	6:DSL:12=8541.10
033	351b033	SAMPLE	176639-004	97507	Soil	17-DEC-2004 08:55	1.0	0.1008	2	1	3	12:DSL:12=15886.7
034	351b034	SAMPLE	176639-006	97507	Soil	17-DEC-2004 09:23	50.0	0.1994			3	
035	351b035	SAMPLE	176639-005	97507	Soil	17-DEC-2004 09:50	50.0	0.1997			3	
036	351b036	X	ib			17-DEC-2004 10:18	1.0					
037	351b037	SAMPLE	176639-001	97507	Soil	17-DEC-2004 10:55	3.0	0.09984		1	3	
038	351b038	SAMPLE	176639-002	97507	Soil	17-DEC-2004 11:23	50.0	0.0995			3	

47

Stds used: 1=04WS2215 2=04WS2365 3=04WS2207 4=04WS2258

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164506037 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	351b001	X	primer			16-DEC-2004 09:57	1.0						
002	351b002	X	ib			16-DEC-2004 10:25	1.0						
003	351b003	CCV	dsl			16-DEC-2004 10:54	1.0	1.0			3	1	
004	351b004	CCV	mo			16-DEC-2004 11:23	1.0	1.0			3	2	
005	351b005	SAMPLE	176653-026	97521	Soil	16-DEC-2004 12:16	1.0	0.0993			3		
006	351b006	SAMPLE	176653-024	97521	Soil	16-DEC-2004 12:45	1.0	0.09972			3		
007	351b007	SAMPLE	176653-001	97521	Soil	16-DEC-2004 13:14	1.0	0.0999			3		
008	351b008	SAMPLE	176653-010	97521	Soil	16-DEC-2004 13:43	1.0	0.09964			3		
009	351b009	SAMPLE	176653-012	97521	Soil	16-DEC-2004 14:12	1.0	0.1005			3		
010	351b010	SAMPLE	176653-015	97521	Soil	16-DEC-2004 14:41	1.0	0.1000			3		
011	351b011	SAMPLE	176653-019	97521	Soil	16-DEC-2004 15:10	1.0	0.09974			3		
012	351b012	SAMPLE	176653-004	97521	Soil	16-DEC-2004 15:39	1.0	0.09964			3		
013	351b013	SAMPLE	176653-016	97521	Soil	16-DEC-2004 16:07	1.0	0.1002			3		
014	351b014	SAMPLE	176653-007	97521	Soil	16-DEC-2004 16:36	1.0	0.09992			3		
015	351b015	CCV	dsl			16-DEC-2004 17:05	1.0	1.0			3	3	
016	351b016	CCV	mo			16-DEC-2004 17:34	1.0	1.0			3	4	
017	351b017	MSS	176656-002 S	97521	Soil	16-DEC-2004 19:09	1.0	0.09919	8		3		
018	351b018	MS	QC276444 S	97521	Soil	16-DEC-2004 19:37	1.0	0.1000			3		
019	351b019	MSD	QC276445 S	97521	Soil	16-DEC-2004 20:06	1.0	0.09936			3		
020	351b020	SAMPLE	176463-011	97396	Soil	16-DEC-2004 20:35	1.0	0.1002		1	3		
021	351b021	SAMPLE	176463-013	97396	Soil	16-DEC-2004 21:04	1.0	0.1003			3		
022	351b022	SAMPLE	176463-003	97396	Soil	16-DEC-2004 21:32	1.0	0.09938			3		
023	351b023	SAMPLE	176463-002	97396	Soil	16-DEC-2004 22:01	1.0	0.0998			3		
024	351b024	SAMPLE	176463-001	97396	Soil	16-DEC-2004 22:30	1.0	0.1001			3		
025	351b025	SAMPLE	176463-007	97396	Soil	16-DEC-2004 22:59	1.0	0.1003			3		
026	351b026	SAMPLE	176463-009	97396	Soil	16-DEC-2004 23:28	1.0	0.0996			3		
027	351b027	CCV	dsl			16-DEC-2004 23:56	1.0	1.0			3	5	
028	351b028	CCV	mo			17-DEC-2004 00:25	1.0	1.0			3	4	
029	351b029	X	ccv			17-DEC-2004 00:54	1.0					5	
030	351b030	SAMPLE	176463-008	97396	Soil	17-DEC-2004 01:22	1.0	0.09992			3		
031	351b031	SAMPLE	176463-004	97396	Soil	17-DEC-2004 01:51	1.0	0.09936			3		

Stds used: 1=04WS2215 2=04WS1972 3=04WS2207 4=04WS2365 5=04WS2258

SEQUENCE SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 164506037 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	351b032	SAMPLE	176463-005	97396	Soil	17-DEC-2004 02:20	1.0	0.09976			3		
033	351b033	SAMPLE	176588-007 S	97477	Soil	17-DEC-2004 02:49	1.0	0.1006			3		
034	351b034	SAMPLE	176588-009 S	97477	Soil	17-DEC-2004 03:17	1.0	0.09942			3		
035	351b035	MSS	176588-008 S	97477	Soil	17-DEC-2004 03:46	1.0	0.1005	8		3		
036	351b036	SAMPLE	176463-012	97396	Soil	17-DEC-2004 04:14	1.0	0.1000			3		
037	351b037	SAMPLE	176588-005 S	97477	Soil	17-DEC-2004 04:43	1.0	0.0997			3		
038	351b038	SAMPLE	176588-004 S	97477	Soil	17-DEC-2004 05:11	1.0	0.09998			3		
039	351b039	SAMPLE	176588-006 S	97477	Soil	17-DEC-2004 05:40	1.0	0.1002			3		
040	351b040	CCV	dsl			17-DEC-2004 06:08	1.0	1.0			3	1	
041	351b041	CCV	mo			17-DEC-2004 06:37	1.0	1.0			3	4	
042	351b042	X	ccv			17-DEC-2004 07:05	1.0					1	
043	351b043	SAMPLE	176463-010	97396	Soil	17-DEC-2004 07:34	1.0	0.09978			3		
044	351b044	SAMPLE	176463-014	97396	Soil	17-DEC-2004 08:02	1.0	0.09996			3		
045	351b045	SAMPLE	176463-006	97396	Soil	17-DEC-2004 08:31	1.0	0.09942			3		
046	351b046	SAMPLE	176588-001 S	97477	Soil	17-DEC-2004 08:59	1.0	0.0998			3		
047	351b047	SAMPLE	176588-003 S	97477	Soil	17-DEC-2004 09:28	1.0	0.09974			3		
048	351b048	SAMPLE	176588-002 S	97477	Soil	17-DEC-2004 09:57	1.0	0.09952			3		
049	351b049	CCV	dsl			17-DEC-2004 10:25	1.0	1.0			3	3	
050	351b050	CCV	mo			17-DEC-2004 10:54	1.0	1.0			3	4	

Stds used: 1=04WS2215 2=04WS1972 3=04WS2207 4=04WS2365 5=04WS2258

REPORTING SUMMARY FOR 176656 TEHM Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
176656-002	GC15B	12/16/04 19:09	1.0	+	+	+	
QC276442	GC13B	12/16/04 20:16	1.0	+	+	+	
QC276443	GC11A	12/16/04 21:07	1.0	+		+	
QC276444	GC15B	12/16/04 19:37	1.0	+		+	
QC276445	GC15B	12/16/04 20:06	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **16-DEC-2004 08:54**

Batch Number : 97521
Date Extracted: 15-DEC-2004
Extracted by : Sharon L. Karagozlu
Prep Method : SHAKER TABLE

Analysis : TEHM
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2345A
Spike #2 ID : 04WS2342F
Spike #3 ID :
SOP Version :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176653-001			Clayton Group Services	Soil	50.05	g	5	0.099900	1		1	0		TEHM		
176653-002			Clayton Group Services	Soil	49.88	g	5	0.100241	1		1	0		TEHM		
176653-004			Clayton Group Services	Soil	50.18	g	5	0.099641	1		1	0		TEHM		
176653-005			Clayton Group Services	Soil	50.25	g	5	0.099502	1		1	0		TEHM		
176653-007			Clayton Group Services	Soil	50.04	g	5	0.099920	1		1	0		TEHM		
176653-009			Clayton Group Services	Soil	49.9	g	5	0.100200	1		1	0		TEHM		
176653-010			Clayton Group Services	Soil	50.18	g	5	0.099641	1		1	0		TEHM		
176653-012			Clayton Group Services	Soil	49.76	g	5	0.100482	1		1	0		TEHM		
176653-013			Clayton Group Services	Soil	50.29	g	5	0.099423	1		1	0		TEHM		
176653-015			Clayton Group Services	Soil	49.98	g	5	0.100040	1		1	0		TEHM		
176653-016			Clayton Group Services	Soil	49.89	g	5	0.100220	1		1	0		TEHM		
176653-018			Clayton Group Services	Soil	49.82	g	5	0.100361	1		1	0		TEHM		
176653-019			Clayton Group Services	Soil	50.13	g	5	0.099741	1		1	0		TEHM		
176653-021			Clayton Group Services	Soil	50.11	g	5	0.099780	1		1	0		TEHM		
176653-022			Clayton Group Services	Soil	50.46	g	5	0.099088	1		1	0		TEHM		
176653-024			Clayton Group Services	Soil	50.14	g	5	0.099721	1		1	0		TEHM		
176653-025			Clayton Group Services	Soil	50.06	g	5	0.099880	1		1	0		TEHM		
176653-026			Clayton Group Services	Soil	50.35	g	5	0.099305	1		1	0		TEHM		
176653-029			Clayton Group Services	Soil	49.98	g	5	0.100040	1		1	0		TEHM		
176656-002			Treadwell & Rollo	Soil	50.41	g	5	0.099187	1		1	0		TEHM	3630C	mss,sg
QC276442	MB			Soil	50.37	g	5	0.099265	1		1	0		TEHM	3630C	sg
QC276443	LCS			Soil	49.91	g	5	0.100180	1		1	1		TEHM	3630C	sg
QC276444	MS	of 176656-002		Soil	50	g	5	0.100000	1		1	1		TEHM	3630C	sg
QC276445	MSD	of 176656-002		Soil	50.32	g	5	0.099364	1		1	1		TEHM	3630C	sg

Prep Chemist: JRD for SLK 12/16/04 Reviewed By: [signature] Date: 12/16/04

Relinquished By: [signature] Received By: [signature] Date: 12-16-04.

Curtis & Tompkins, Ltd. **TEH SOIL PREP LOG** BK 2046

LIMS Batch No: 97521
LIMS Analysis TEHM
Extracted by: SLK
Date Extracted: 12/15/04

Extraction Method:
☑ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other _____

Cleanup Method (if necessary):
☑ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB QC271042	50.37	5.0	X	
LCS 3	49.91			
MS 4	50.00			176656-002
MSD 5	50.32			
176653-001	50.05			
-002	49.88			
-004	50.18			
-005	50.25			
-007	50.04			
-009	49.90			
-010	50.18			
-012	49.76			
-013	50.29			
-015	49.98			
-016	49.89			
-018	49.82			
-019	50.13			
-021	50.11			
-022	50.46			
-024	50.14			
-025	50.06			
-026	50.35			
-029	49.98			
176656-002	50.41		X	MSS
	12/16/04			

	Mfg & Lot # / LIMS # / Time	Date/Initials
Sand weighed out for QC samples	EM44028421	SLK 12/15/04
Samples were dried with CH2Cl2-rinsed granular Na2SO4	EM44135439	
1.0 mL of TEH_SURR surrogate solution was added to all samples	OWS2345A	
1.0 mL of TEH_SP matrix spiking solution was added to all spikes	OWS2342F	
≥ 75 mL of 1+1 (CH_2Cl_2+Acetone) was added to all — CH_2Cl_2	EM44259	
Acetone	EM44179	
Samples were: ☒ sonicated 3 times SLK 12/15/04 ☑ placed on shaker table at:	1800	
taken off shaker table at:	2000	
Extracts filtered through baked, rinsed powdered Na_2SO_4	EM44135433	3b 12/16/04
Concentrated to volumes as noted above		

12/15/04
Extraction Chemist / Date

Continued from page 52
Continued on page ___

12/16/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: SB
Cleanup Date: 12/16/04

Benchbook # **BK 2028**
Page 54

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC276442	97521	1.0	1.0	
LCS 43				
MS 44				
MSD 45				
176650-002				MSS

SB 12/16/04

	Mfg & Lot # / Time / Program	Initials / Date
☑ Extracts were cleaned up using C&T assembled 1.0 g columns	✓	MS 12/16/04
☐ Extracts were cleaned up using ____ g cartridges	N/A	
Extracts were eluted with 4.0 mL CH_2Cl_2	EM44259	
Concentrated to volumes as noted above	✓	

12/16/04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

12/16/04
Reviewed by / Date

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
1766SB-001 A	50.05	TEHM	NOT ENOUGH SAMPLE FOR MS/MSD
-002	MC 12/15 ~~49.96~~ 49.88		
-004	50.18		
-005	50.25		
-007	50.04		
-009	49.90		
-010	50.18		
-012	49.76		
-013	MC 12/15 ~~49.90~~ 50.29		
-015	49.98		
-016	49.89		
-018	49.82		
-019	50.13		
-021	50.11		
-022	50.46		
-024	50.14		
-025	50.06		
-026	50.35		
-029	49.98		
~~MS~~ MC 12/15			
~~MSD~~			
~~LCS~~	49.91		EM402842
~~MB~~	50.37		
1766556-002		TEHM 8081	SILICAGEL
1766556-001			
MS			
MSD			EM402842
LCS			
MB			

Continued on Page

Michelle Curtis
Signed

12/15/04
Date

Read and Understood By

Signed

Date

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
1766653-001A	50.05	TEHM	NOT ENOUGH
-002	MC 12/15 ~~49.96~~ 49.88		SAMPLE FOR
-004	50.18		MS/MSD
-005	50.25		
-007	50.04		
-009	49.90		
-010	50.18		
-012	49.76		
-013	MC 12/15 ~~49.90~~ 50.29		
-015	49.98		
-016	49.89		
-018	49.82		
-019	50.13		
-021	50.11		
-022	50.46		
-024	50.14		
-025	50.06		
-026	50.35		
-029	49.98		
~~MS~~ MC 12/15			
~~MSD~~			
~~LCS~~	49.91		EM440 28421
~~MB~~	50.37		
1766656-002	50.41	TEHM 8081	MSS, SILICAGEL
1766656-001	15.08		MSS
MS	15.10		1766656-001A
MSD	14.94		
~~LCS~~ MC 12/15			MC 12/15 ~~EM440 28421~~
~~MB~~			
MS	50.00	TEHM	1766656-002A
MSD	50.32		
~~LCS~~ MC 12/15			
~~MB~~			

MC 12/15/04

Continued on Page

Read and Understood By

Michelle Curtis 12/15/04 55

Signed Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Soil SHAKER TABLE

Analyte	Units	GC11A	GC13B	GC15B	GC17A
Diesel C10-C20	mg/Kg		10/20/04 0.30	10/20/04 0.29	10/20/04 0.20
Diesel C10-C22	mg/Kg	10/26/04 0.57	10/20/04 0.30	10/20/04 0.30	10/20/04 0.19
Diesel C10-C24	mg/Kg	10/26/04 0.55	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C10-C28	mg/Kg	10/26/04 0.68	10/20/04 0.32	10/20/04 0.30	10/20/04 0.40
Diesel C12-C28	mg/Kg		10/20/04 0.32		
Diesel C12-C36	mg/Kg	10/26/04 0.60	10/20/04 0.32		
Diesel C12-C32	mg/Kg			10/20/04 0.31	10/20/04 0.50
Diesel C12-C24	mg/Kg	10/26/04 0.42	10/20/04 0.31	10/20/04 0.29	10/20/04 0.21
Diesel C12-C22	mg/Kg	10/26/04 0.44	10/20/04 0.31	10/20/04 0.30	10/20/04 0.20
Motor Oil C20-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.68	03/30/04 0.32
Motor Oil C22-C36	mg/Kg	04/06/04 2.4	04/10/04 0.54	04/10/04 0.71	03/30/04 0.32
Motor Oil C24-C36	mg/Kg	04/06/04 2.4	04/10/04 0.65	04/10/04 0.80	03/30/04 0.30
Motor Oil C22-C32	mg/Kg	04/06/04 2.6	04/10/04 0.64	04/10/04 0.54	03/30/04 0.31
Hexacosane	mg/Kg	09/20/03 0.17	08/15/03 0.11	08/16/03 0.069	09/05/03 0.17

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX155[0.5]	Batch#:	97520
Lab ID:	176656-001	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04
Units:	ug/Kg	Prepared:	12/15/04
Basis:	dry	Analyzed:	12/16/04
Diln Fac:	1.000		

Moisture: 4% Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.57
gamma-Chlordane	ND	1.8	0.66
Methoxychlor	ND	18	
Toxaphene	ND	62	

Surrogate	%REC	Limits
TCMX	70	65-135
Decachlorobiphenyl	95	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276438	Batch#:	97520
Matrix:	Soil	Prepared:	12/15/04
Units:	ug/Kg	Analyzed:	12/15/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	ND	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	ND	1.7	0.63
gamma-Chlordane	ND	1.7	0.56
Methoxychlor	ND	17	
Toxaphene	ND	59	

Surrogate	%REC	Limits
TCMX	78	65-135
Decachlorobiphenyl	88	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276439	Batch#:	97520
Matrix:	Soil	Prepared:	12/15/04
Units:	ug/Kg	Analyzed:	12/15/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.19	11.22	85	65-135
Heptachlor	13.19	11.04	84	65-135
Aldrin	13.19	10.76	82	65-135
Dieldrin	26.39	21.45	81	65-135
Endrin	26.39	20.10	76	65-135
4,4'-DDT	26.39	17.63	67	65-135

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	83	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX155[0.5]	Batch#:	97520
MSS Lab ID:	176656-001	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04
Units:	ug/Kg	Prepared:	12/15/04
Basis:	dry	Analyzed:	12/16/04
Diln Fac:	1.000		

Type: MS Moisture: 4%
Lab ID: QC276440 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.6771	13.80	11.79	85	65-135
Heptachlor	<0.6563	13.80	12.33	89	65-135
Aldrin	<0.7604	13.80	12.14	88	65-135
Dieldrin	<0.7813	27.59	23.31	84	65-135
Endrin	<0.7083	27.59	23.73	86	65-135
4,4'-DDT	<0.5938	27.59	22.65	82	65-135

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	105	65-135

Type: MSD Moisture: 4%
Lab ID: QC276441 Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.94	10.10	72	65-135	16	35
Heptachlor	13.94	10.12	73	65-135	21	35
Aldrin	13.94	10.26	74	65-135	18	35
Dieldrin	27.89	19.50	70	65-135	19	35
Endrin	27.89	19.53	70	65-135	20	35
4,4'-DDT	27.89	18.07	65	65-135	24	35

Surrogate	%REC	Limits
TCMX	80	65-135
Decachlorobiphenyl	92	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: MCH
Calnum: 244505299001 Name: Type: (normal) Date: 15-DEC-2004 21:39 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350_007	244505299007	pest_1	15-DEC-2004 21:39	04WS1628
2	350_008	244505299008	pest_2	15-DEC-2004 22:08	04WS1629
3	350_009	244505299009	pest_3	15-DEC-2004 22:37	04WS2051
4	350_010	244505299010	pest_4	15-DEC-2004 23:06	04WS2344
5	350_011	244505299011	pest_5	15-DEC-2004 23:35	04WS2053
6	350_012	244505299012	pest_6	16-DEC-2004 00:04	04WS1634
7	350_018	244505299018	pest_7	16-DEC-2004 12:25	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	12665	12649	11555	12210	11891	12359	12857	AVRG	R		8.122E-5		pg	12312	4	0.995	20	
gamma-BHC	A	11485	11612	10441	11058	10774	10930	11520	AVRG	R		8.995E-5		pg	11117	4	0.995	20	
beta-BHC	A	5222.8	5120.5	4518.9	4703.3	4533.9	4300.4	4307.0	AVRG	R		2.140E-4		pg	4672.4	8	0.995	20	
delta-BHC	A	11807	11650	10333	11123	10904	10941	11269	AVRG	R		8.971E-5		pg	11147	4	0.995	20	
Heptachlor	A	11310	11161	9868.1	10689	10431	10177	11574	AVRG	R		9.307E-5		pg	10744	6	0.995	20	
Aldrin	A	11253	11040	9642.7	10402	10152	9910.6	11943	AVRG	R		9.416E-5		pg	10620	8	0.995	20	
Heptachlor epoxide	A	10573	10335	8879.9	9582.7	9381.3	8848.9	10440	AVRG	R		1.029E-4		pg	9720.1	8	0.995	20	
gamma-Chlordane	A	10506	10246	8763.5	9573.9	9388.2	8867.7	11056	AVRG	R		1.023E-4		pg	9771.6	9	0.995	20	
alpha-Chlordane	A	9616.8	9740.5	8258.3	9060.3	8918.9	8313.1	10202	AVRG	R		1.092E-4		pg	9158.6	8	0.995	20	
4,4'-DDE	A	10097	9637.4	8135.4	9186.2	9261.7	8886.7	11991	AVRG	R		1.042E-4		pg	9599.3	13	0.995	20	
Endosulfan I	A	9653.2	9338.1	7936.9	8601.7	8452.5	7763.6	8711.9	AVRG	R		1.158E-4		pg	8636.8	8	0.995	20	
Dieldrin	A	10415	10106	8589.2	9633.2	9664.2	9265.4	12134	AVRG	R		1.003E-4		pg	9972.5	11	0.995	20	
Endrin	A	8740.1	8450.5	7031.1	7938.3	7895.7	7274.1	9653.9	AVRG	R		1.228E-4		pg	8140.5	11	0.995	20	
4,4'-DDD	A	7920.8	7629.2	6352.2	7095.4	7173.7	6653.9	8632.1	AVRG	R		1.360E-4		pg	7351.1	11	0.995	20	
Endosulfan II	A	8659.4	8268.1	6898.9	7530.2	7555.8	6965.8	8271.3	AVRG	R		1.293E-4		pg	7735.6	9	0.995	20	
4,4'-DDT	A	7455.4	7166.7	6284.2	7083.0	7235.9	6564.1	9691.8	AVRG	R		1.360E-4		pg	7354.5	15	0.995	20	
Methoxychlor	A	3518.9	3163.8	2772.5	3224.6	3306.0	2928.7	3010.3	AVRG	R		3.193E-4		pg	3132.1	8	0.995	20	
Endosulfan sulfate	A	7413.5	7006.4	5846.7	6360.8	6363.6	5700.7	7967.3	AVRG	R		1.500E-4		pg	6665.6	12	0.995	20	
Endrin ketone	A	8514.0	7860.8	6649.6	7221.3	7296.4	6547.7	7228.1	AVRG	R		1.364E-4		pg	7331.1	9	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: MCH
Calnum: 244505299001 Name: Type: (normal) Date: 15-DEC-2004 21:39 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
TCMX	A	8434.9	7894.7	7086.4	7245.0	6987.2	7234.1	8353.3	AVRG	R		1.315E-4		pg	7605.1	8	0.995	20	
Decachlorobiphenyl	A	5689.1	4817.5	4391.5	4856.7	4975.6	4146.2		AVRG	R		2.078E-4		pg	4812.8	11	0.995	20	
alpha-BHC	B	12899	11517	10078	9450.9	10187	10942	13298	AVRG	R		8.932E-5		pg	11196	13	0.995	20	
gamma-BHC	B	11705	10123	8869.8	8236.6	8943.8	9576.8	11631	AVRG	R		1.013E-4		pg	9869.5	14	0.995	20	
beta-BHC	B	5000.4	4260.8	3775.2	3465.3	3708.1	3766.5	4379.3	AVRG	R		2.469E-4		pg	4050.8	13	0.995	20	
delta-BHC	B	11234	9814.6	8699.5	8001.5	8658.3	9316.5	11549	AVRG	R		1.041E-4		pg	9610.4	14	0.995	20	
Heptachlor	B	9838.0	8570.2	7442.6	6778.8	7678.1	8091.5	9333.1	AVRG	R		1.212E-4		pg	8247.4	13	0.995	20	
Aldrin	B	10593	9075.8	8009.7	7358.3	7936.5	8357.8	10276	AVRG	R		1.136E-4		pg	8800.9	14	0.995	20	
Heptachlor epoxide	B	9513.5	8157.0	7251.3	6607.6	7164.8	7400.6	8967.1	AVRG	R		1.271E-4		pg	7866.0	13	0.995	20	
gamma-Chlordane	B	9512.9	7987.1	7205.7	6601.7	7100.2	7415.2	9326.7	AVRG	R		1.269E-4		pg	7878.5	14	0.995	20	
alpha-Chlordane	B	9147.7	7680.6	6912.0	6328.8	6764.2	7029.4	8819.6	AVRG	R		1.329E-4		pg	7526.0	14	0.995	20	
4,4'-DDE	B	8750.1	7449.6	6794.3	6325.5	6856.5	7476.6	10039	AVRG	R		1.304E-4		pg	7670.2	17	0.995	20	
Endosulfan I	B	8688.3	7299.7	6561.5	5990.6	6398.0	6564.5	7871.2	AVRG	R		1.418E-4		pg	7053.4	14	0.995	20	
Dieldrin	B	9021.1	7586.2	6862.6	6357.5	6929.3	7464.4	9109.1	AVRG	R		1.313E-4		pg	7618.6	14	0.995	20	
Endrin	B	6682.8	5786.3	4962.0	4403.7	4979.7	5332.5	6412.2	AVRG	R		1.815E-4		pg	5508.4	15	0.995	20	
4,4'-DDD	B	6807.0	5866.5	5368.5	4931.2	5143.6	5585.5	6805.8	AVRG	R		1.728E-4		pg	5786.9	13	0.995	20	
Endosulfan II	B	7633.4	6482.2	5805.8	5321.0	5654.6	6085.1	7720.9	AVRG	R		1.566E-4		pg	6386.1	15	0.995	20	
4,4'-DDT	B	5554.5	5057.8	4649.5	4246.7	4700.9	5178.7	7249.8	AVRG	R		1.911E-4		pg	5234.0	19	0.995	20	
Methoxychlor	B	2265.1	2107.5	1936.3	1773.2	1945.4	2113.6	2460.4	AVRG	R		4.794E-4		pg	2085.9	11	0.995	20	
Endosulfan sulfate	B	6336.2	5496.9	4976.2	4529.2	4716.9	5026.5	6862.5	AVRG	R		1.845E-4		pg	5420.6	16	0.995	20	
Endrin ketone	B	8621.6	6960.6	6374.7	5734.2	5930.4	6306.0	7666.5	AVRG	R		1.471E-4		pg	6799.2	15	0.995	20	
TCMX	B	8019.4	7292.5	6034.3	5660.3	6461.3	6829.8	8288.0	AVRG	R		1.441E-4		pg	6940.8	14	0.995	20	
Decachlorobiphenyl	B	4644.5	4066.3	3952.8	3638.9	3713.7	3824.9		AVRG	R		2.517E-4		pg	3973.5	9	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	9		20	
EPA 8081A	B	22	14		20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804491963001 Name: Type: (normal) Date: 06-DEC-2004 22:13 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	341_016	804491963016	pest_1	06-DEC-2004 22:13	04WS1628
2	341_017	804491963017	pest_2	06-DEC-2004 22:42	04WS1629
3	341_018	804491963018	pest_3	06-DEC-2004 23:10	04WS2051
4	341_019	804491963019	pest_4	06-DEC-2004 23:38	04WS2052
5	341_020	804491963020	pest_5	07-DEC-2004 00:07	04WS2053
6	341_021	804491963021	pest_6	07-DEC-2004 00:35	04WS1634
7	341_022	804491963022	pest_7	07-DEC-2004 01:03	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	18764	16703	16481	17330	16539	19544	20152	AVRG	R		5.577E-5		pg	17930	9	0.995	20	
gamma-BHC	A	16937	15559	14956	15472	14759	17135	17924	AVRG	R		6.209E-5		pg	16106	8	0.995	20	
beta-BHC	A	7332.5	6596.2	6259.6	6390.6	5961.6	6217.2	6248.7	AVRG	R		1.555E-4		pg	6429.5	7	0.995	20	
delta-BHC	A	16763	14837	14405	15237	14428	17156	17612	AVRG	R		6.338E-5		pg	15777	9	0.995	20	
Heptachlor	A	15681	14002	13623	14109	13500	15560	16343	AVRG	R		6.808E-5		pg	14688	8	0.995	20	
Aldrin	A	16943	13967	13461	13835	13200	15195	15906	AVRG	R		6.829E-5		pg	14644	10	0.995	20	
Heptachlor epoxide	A	14496	12675	12368	12761	12076	13693	14245	AVRG	R		7.583E-5		pg	13188	7	0.995	20	
gamma-Chlordane	A	14481	12636	12226	12760	12065	14071	14637	AVRG	R		7.537E-5		pg	13268	8	0.995	20	
alpha-Chlordane	A	13995	12364	11766	12294	11651	13276	13893	AVRG	R		7.844E-5		pg	12748	8	0.995	20	
4,4'-DDE	A	13765	12244	11681	12870	12764	15274	13199	AVRG	R		7.626E-5		pg	13114	9	0.995	20	
Endosulfan I	A	12349	11015	10728	11272	10322	11432	13103	AVRG	R		8.726E-5		pg	11460	8	0.995	20	
Dieldrin	A	13963	12416	11937	13111	12712	15066	13474	AVRG	R		7.553E-5		pg	13240	8	0.995	20	
Endrin	A	12303	10704	10327	11346	10937	13016	11913	AVRG	R		8.691E-5		pg	11507	8	0.995	20	
4,4'-DDD	A	10897	9517.7	9141.6	10004	9625.6	11904	10910	AVRG	R		9.722E-5		pg	10286	10	0.995	20	
Endosulfan II	A	11843	10585	10089	10929	10451	12652	11483	AVRG	R		8.971E-5		pg	11148	8	0.995	20	
4,4'-DDT	A	10647	9480.4	9250.2	10224	9918.3	12349	11340	AVRG	R		9.562E-5		pg	10458	10	0.995	20	
Methoxychlor	A	4893.7	4293.2	4237.3	5222.5	4949.0	4909.2		AVRG	R		2.105E-4		pg	4750.8	8	0.995	20	
Endosulfan sulfate	A	10461	9316.7	8731.0	9348.1	8909.7	10653	10343	AVRG	R		1.033E-4		pg	9680.4	8	0.995	20	
Endrin ketone	A	12975	11557	10732	11718	11282	13530	11996	AVRG	R		8.354E-5		pg	11970	8	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD Reviewed By: MCH
Calnum: 804491963001 Name: Type: (normal) Date: 06-DEC-2004 22:13 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
TCMX	A	11870	10814	10326	10683	10155	11788	11658	AVRG	R		9.056E-5		pg	11042	7	0.995	20	
Decachlorobiphenyl	A	8874.7	7626.0	7280.1	7815.0	7676.3	8931.7	8905.9	AVRG	R		1.226E-4		pg	8158.5	9	0.995	20	
alpha-BHC	B	23091	22016	21383	22791	22342	25338	25122	AVRG	R		4.319E-5		pg	23155	7	0.995	20	
gamma-BHC	B	21556	20536	19714	20929	20155	22732	22925	AVRG	R		4.712E-5		pg	21221	6	0.995	20	
beta-BHC	B	9965.0	9254.0	8548.4	8662.7	8092.9	8273.8	9146.8	AVRG	R		1.130E-4		pg	8849.1	7	0.995	20	
delta-BHC	B	21940	20548	19536	21215	20251	22691	22892	AVRG	R		4.696E-5		pg	21296	6	0.995	20	
Heptachlor	B	16850	16107	15511	16634	15762	17782	18358	AVRG	R		5.983E-5		pg	16715	6	0.995	20	
Aldrin	B	20866	19360	18456	19543	18667	21031	21012	AVRG	R		5.038E-5		pg	19848	6	0.995	20	
Heptachlor epoxide	B	19671	18190	17260	18114	17199	19332	18872	AVRG	R		5.442E-5		pg	18377	5	0.995	20	
gamma-Chlordane	B	19564	18232	17266	18373	17458	19916	20057	AVRG	R		5.349E-5		pg	18695	6	0.995	20	
alpha-Chlordane	B	19015	17838	16686	17834	16809	19199	19110	AVRG	R		5.534E-5		pg	18070	6	0.995	20	
4,4'-DDE	B	18856	17597	17107	20391	19256	19774	14959	AVRG	R		5.471E-5		pg	18277	10	0.995	20	
Endosulfan I	B	18069	16716	15875	16538	15673	17580	17424	AVRG	R		5.939E-5		pg	16839	5	0.995	20	
Dieldrin	B	19080	17617	17096	20099	18980	19183		AVRG	R		5.354E-5		pg	18676	6	0.995	20	
Endrin	B	15669	14409	13483	15869	14693	15538	13714	AVRG	R		6.771E-5		pg	14768	6	0.995	20	
4,4'-DDD	B	15751	14402	13453	15775	14537	15884	13607	AVRG	R		6.769E-5		pg	14773	7	0.995	20	
Endosulfan II	B	17025	15533	14731	16952	16167	16582	14236	AVRG	R		6.293E-5		pg	15889	7	0.995	20	
4,4'-DDT	B	13284	12414	12096	14557	13926	15294	13538	AVRG	R		7.360E-5		pg	13587	8	0.995	20	
Methoxychlor	B	6437.8	5748.6	5735.1	6594.8	6002.4	5355.0		AVRG	R		1.673E-4		pg	5979.0	8	0.995	20	
Endosulfan sulfate	B	15048	13681	12807	14258	13717	14876	13800	AVRG	R		7.129E-5		pg	14027	6	0.995	20	
Endrin ketone	B	19122	16595	15573	18091	17150	17321	14739	AVRG	R		5.903E-5		pg	16941	9	0.995	20	
TCMX	B	15374	14043	13525	13869	14018	14977	14063	AVRG	R		7.009E-5		pg	14267	5	0.995	20	
Decachlorobiphenyl	B	12460	10923	10668	12578	11770	12820	10288	AVRG	R		8.588E-5		pg	11644	9	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	8		20	
EPA 8081A	B	22	7		20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC21 Calname :
Calnum : 244505299001 Caldate : 15-DEC-2004 Caltype :

ICV 244505299020 (350_020) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	244505299020	16-DEC-2004	25.000	23.796	pg	-5	15
gamma-BHC	A	244505299020	16-DEC-2004	25.000	23.847	pg	-5	15
beta-BHC	A	244505299020	16-DEC-2004	25.000	23.918	pg	-4	15
delta-BHC	A	244505299020	16-DEC-2004	25.000	23.974	pg	-4	15
Heptachlor	A	244505299020	16-DEC-2004	25.000	23.601	pg	-6	15
Aldrin	A	244505299020	16-DEC-2004	25.000	23.713	pg	-5	15
Heptachlor epoxide	A	244505299020	16-DEC-2004	25.000	22.709	pg	-9	15
gamma-Chlordane	A	244505299020	16-DEC-2004	25.000	22.193	pg	-11	15
alpha-Chlordane	A	244505299020	16-DEC-2004	25.000	22.682	pg	-9	15
4,4'-DDE	A	244505299020	16-DEC-2004	25.000	21.580	pg	-14	15
Endosulfan I	A	244505299020	16-DEC-2004	25.000	23.046	pg	-8	15
Dieldrin	A	244505299020	16-DEC-2004	25.000	21.952	pg	-12	15
Endrin	A	244505299020	16-DEC-2004	25.000	21.714	pg	-13	15
4,4'-DDD	A	244505299020	16-DEC-2004	25.000	21.776	pg	-13	15
Endosulfan II	A	244505299020	16-DEC-2004	25.000	22.370	pg	-11	15
4,4'-DDT	A	244505299020	16-DEC-2004	25.000	21.431	pg	-14	15
Methoxychlor	A	244505299020	16-DEC-2004	25.000	23.315	pg	-7	15
Endosulfan sulfate	A	244505299020	16-DEC-2004	25.000	22.333	pg	-11	15
Endrin ketone	A	244505299020	16-DEC-2004	25.000	21.821	pg	-13	15
alpha-BHC	B	244505299020	16-DEC-2004	25.000	23.964	pg	-4	15
gamma-BHC	B	244505299020	16-DEC-2004	25.000	24.016	pg	-4	15
beta-BHC	B	244505299020	16-DEC-2004	25.000	24.253	pg	-3	15
delta-BHC	B	244505299020	16-DEC-2004	25.000	24.490	pg	-2	15
Heptachlor	B	244505299020	16-DEC-2004	25.000	23.392	pg	-6	15
Aldrin	B	244505299020	16-DEC-2004	25.000	24.103	pg	-4	15
Heptachlor epoxide	B	244505299020	16-DEC-2004	25.000	23.218	pg	-7	15
gamma-Chlordane	B	244505299020	16-DEC-2004	25.000	22.932	pg	-8	15
alpha-Chlordane	B	244505299020	16-DEC-2004	25.000	23.079	pg	-8	15
4,4'-DDE	B	244505299020	16-DEC-2004	25.000	22.823	pg	-9	15
Endosulfan I	B	244505299020	16-DEC-2004	25.000	23.434	pg	-6	15
Dieldrin	B	244505299020	16-DEC-2004	25.000	22.968	pg	-8	15
Endrin	B	244505299020	16-DEC-2004	25.000	22.404	pg	-10	15
4,4'-DDD	B	244505299020	16-DEC-2004	25.000	23.575	pg	-6	15
Endosulfan II	B	244505299020	16-DEC-2004	25.000	23.608	pg	-6	15
4,4'-DDT	B	244505299020	16-DEC-2004	25.000	21.893	pg	-12	15
Methoxychlor	B	244505299020	16-DEC-2004	25.000	23.670	pg	-5	15
Endosulfan sulfate	B	244505299020	16-DEC-2004	25.000	23.766	pg	-5	15
Endrin ketone	B	244505299020	16-DEC-2004	25.000	23.687	pg	-5	15

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	9	15	
EPA 8081A	B	22	7	15	

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Calname :
Calnum : 804491963001 Caldate : 06-DEC-2004 Caltype :

ICV 804491963024 (341_024) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	804491963024	07-DEC-2004	25.000	24.506	pg	-2	15
gamma-BHC	A	804491963024	07-DEC-2004	25.000	24.565	pg	-2	15
beta-BHC	A	804491963024	07-DEC-2004	25.000	24.875	pg	0	15
delta-BHC	A	804491963024	07-DEC-2004	25.000	25.366	pg	1	15
Heptachlor	A	804491963024	07-DEC-2004	25.000	24.795	pg	-1	15
Aldrin	A	804491963024	07-DEC-2004	25.000	24.622	pg	-2	15
Heptachlor epoxide	A	804491963024	07-DEC-2004	25.000	24.172	pg	-3	15
gamma-Chlordane	A	804491963024	07-DEC-2004	25.000	23.887	pg	-4	15
alpha-Chlordane	A	804491963024	07-DEC-2004	25.000	24.441	pg	-2	15
4,4'-DDE	A	804491963024	07-DEC-2004	25.000	23.858	pg	-5	15
Endosulfan I	A	804491963024	07-DEC-2004	25.000	25.648	pg	3	15
Dieldrin	A	804491963024	07-DEC-2004	25.000	24.148	pg	-3	15
Endrin	A	804491963024	07-DEC-2004	25.000	24.087	pg	-4	15
4,4'-DDD	A	804491963024	07-DEC-2004	25.000	24.044	pg	-4	15
Endosulfan II	A	804491963024	07-DEC-2004	25.000	24.565	pg	-2	15
4,4'-DDT	A	804491963024	07-DEC-2004	25.000	24.167	pg	-3	15
Methoxychlor	A	804491963024	07-DEC-2004	25.000	25.757	pg	3	15
Endosulfan sulfate	A	804491963024	07-DEC-2004	25.000	24.645	pg	-1	15
Endrin ketone	A	804491963024	07-DEC-2004	25.000	24.170	pg	-3	15
alpha-BHC	B	804491963024	07-DEC-2004	25.000	25.573	pg	2	15
gamma-BHC	B	804491963024	07-DEC-2004	25.000	24.953	pg	0	15
beta-BHC	B	804491963024	07-DEC-2004	25.000	23.821	pg	-5	15
delta-BHC	B	804491963024	07-DEC-2004	25.000	25.726	pg	3	15
Heptachlor	B	804491963024	07-DEC-2004	25.000	24.482	pg	-2	15
Aldrin	B	804491963024	07-DEC-2004	25.000	25.166	pg	1	15
Heptachlor epoxide	B	804491963024	07-DEC-2004	25.000	24.095	pg	-4	15
gamma-Chlordane	B	804491963024	07-DEC-2004	25.000	23.903	pg	-4	15
alpha-Chlordane	B	804491963024	07-DEC-2004	25.000	24.377	pg	-2	15
4,4'-DDE	B	804491963024	07-DEC-2004	25.000	24.658	pg	-1	15
Endosulfan I	B	804491963024	07-DEC-2004	25.000	24.619	pg	-2	15
Dieldrin	B	804491963024	07-DEC-2004	25.000	23.913	pg	-4	15
Endrin	B	804491963024	07-DEC-2004	25.000	23.875	pg	-4	15
4,4'-DDD	B	804491963024	07-DEC-2004	25.000	24.358	pg	-3	15
Endosulfan II	B	804491963024	07-DEC-2004	25.000	24.339	pg	-3	15
4,4'-DDT	B	804491963024	07-DEC-2004	25.000	23.827	pg	-5	15
Methoxychlor	B	804491963024	07-DEC-2004	25.000	25.648	pg	3	15
Endosulfan sulfate	B	804491963024	07-DEC-2004	25.000	24.155	pg	-3	15
Endrin ketone	B	804491963024	07-DEC-2004	25.000	24.027	pg	-4	15

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	22	4	15	
EPA 8081A	B	22	4	15	

PERFORMANCE EVALUATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804504588009 Run Name: Injected: 15-DEC-2004 13:31
Filename: 350_009 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	529059.77
Endrin aldehyde	A	11242.25
Endrin ketone	A	56906.97

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	918398.81
4,4'-DDE	A	4461.74
4,4'-DDD	A	147173.39

4,4'-DDT Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	825780.58
Endrin aldehyde	B	9401.65
Endrin ketone	B	33581.56

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1517754.35
4,4'-DDE	B	4554.49
4,4'-DDD	B	73731.25

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC23 Gas Chromatograph #23 ECD
Seqnum: 804504588021 Run Name: Injected: 15-DEC-2004 21:53
Filename: 350_021 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	558343.44
Endrin aldehyde	A	0
Endrin ketone	A	50322.7

Endrin Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	989671.21
4,4'-DDE	A	4909.89
4,4'-DDD	A	130522.78

4,4'-DDT Breakdown %: 12
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	924638.89
Endrin aldehyde	B	13231.19
Endrin ketone	B	34482.68

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	1718898.8
4,4'-DDE	B	5086.69
4,4'-DDD	B	71451.74

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244506511002 Run Name: Injected: 16-DEC-2004 17:51
Filename: 351_002 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	354518.5
Endrin aldehyde	A	4484.89
Endrin ketone	A	14352.59

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	671130.52
4,4'-DDE	A	2209.11
4,4'-DDD	A	18407.14

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	252158.03
Endrin aldehyde	B	10492.49
Endrin ketone	B	28095.39

Endrin Breakdown %: 13
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	505293.18
4,4'-DDE	B	2260.37
4,4'-DDD	B	28735.28

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244506511013 Run Name: Injected: 16-DEC-2004 23:10
Filename: 351_013 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	379558.8
Endrin aldehyde	A	3602.46
Endrin ketone	A	18187.14

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	705401.33
4,4'-DDE	A	2426
4,4'-DDD	A	23963.09

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	250298.01
Endrin aldehyde	B	7021.27
Endrin ketone	B	24266.42

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	472262.33
4,4'-DDE	B	1975.21
4,4'-DDD	B	25507.82

4,4'-DDT Breakdown %: 5
Breakdown Limit %: 15

CONTINUING CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_3 IDF : 1.0
Seqnum : 804504588010 Filename : 350_010 Injected : 15-DEC-2004 14:00
Calnum : 804491963001 Caldate : 06-DEC-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17930	18469	10.00000	10.30039	pg	3	15	
gamma-BHC	A	16106	17002	10.00000	10.55605	pg	6	15	
beta-BHC	A	6429.5	7300.7	10.00000	11.35507	pg	14	15	
delta-BHC	A	15777	16592	10.00000	10.51686	pg	5	15	
Heptachlor	A	14688	14142	10.00000	9.627748	pg	-4	15	
Aldrin	A	14644	15315	10.00000	10.45828	pg	5	15	
Heptachlor epoxide	A	13188	14369	10.00000	10.89561	pg	9	15	
gamma-Chlordane	A	13268	14282	10.00000	10.76445	pg	8	15	
alpha-Chlordane	A	12748	14071	10.00000	11.03730	pg	10	15	
4,4'-DDE	A	13114	14182	20.00000	21.62930	pg	8	15	
Endosulfan I	A	11460	13226	10.00000	11.54055	pg	15	15	
Dieldrin	A	13240	14600	20.00000	22.05417	pg	10	15	
Endrin	A	11507	11867	20.00000	20.62564	pg	3	15	
4,4'-DDD	A	10286	12573	20.00000	24.44747	pg	**22**	15	c+ ***
Endosulfan II	A	11148	12397	20.00000	22.24089	pg	11	15	
4,4'-DDT	A	10458	9642.4	20.00000	18.43931	pg	-8	15	
Methoxychlor	A	4750.8	4645.2	100.0000	97.77580	pg	-2	15	
Endosulfan sulfate	A	9680.4	10957	20.00000	22.63723	pg	13	15	
Endrin ketone	A	11970	13734	20.00000	22.94797	pg	15	15	
TCMX	A	11042	11872	20.00000	21.50364	pg	8	15	
Decachlorobiphenyl	A	8158.5	8593.0	20.00000	21.06507	pg	5	15	
alpha-BHC	B	23155	22135	10.00000	9.559692	pg	-4	15	
gamma-BHC	B	21221	20204	10.00000	9.520741	pg	-5	15	
beta-BHC	B	8849.1	8781.5	10.00000	9.923569	pg	-1	15	
delta-BHC	B	21296	20100	10.00000	9.438502	pg	-6	15	
Heptachlor	B	16715	16917	10.00000	10.12081	pg	1	15	
Aldrin	B	19848	19040	10.00000	9.593121	pg	-4	15	
Heptachlor epoxide	B	18377	17903	10.00000	9.742100	pg	-3	15	
gamma-Chlordane	B	18695	18042	10.00000	9.650443	pg	-3	15	
alpha-Chlordane	B	18070	17516	10.00000	9.693143	pg	-3	15	
4,4'-DDE	B	18277	17871	20.00000	19.55506	pg	-2	15	
Endosulfan I	B	16839	16590	10.00000	9.852005	pg	-1	15	
Dieldrin	B	18676	18173	20.00000	19.46167	pg	-3	15	
Endrin	B	14768	15296	20.00000	20.71425	pg	4	15	
4,4'-DDD	B	14773	14406	20.00000	19.50337	pg	-2	15	
Endosulfan II	B	15889	15487	20.00000	19.49294	pg	-3	15	
4,4'-DDT	B	13587	13617	20.00000	20.04419	pg	0	15	
Methoxychlor	B	5979.0	6978.6	100.0000	116.7196	pg	**17**	15	c+ ***
Endosulfan sulfate	B	14027	13701	20.00000	19.53632	pg	-2	15	
Endrin ketone	B	16941	16847	20.00000	19.88863	pg	-1	15	
TCMX	B	14267	14366	20.00000	20.13869	pg	1	15	
Decachlorobiphenyl	B	11644	12238	20.00000	21.02102	pg	5	15	
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				3	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC23 Run Name : pest_4 IDF : 1.0
Seqnum : 804504588022 Filename : 350_022 Injected : 15-DEC-2004 22:22
Calnum : 804491963001 Caldate : 06-DEC-2004 Caltype :
Standards: 04WS2344

Analyte	Ch	RF/CF	Avg RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	17930	17770	20.00000	19.82170	pg	-1	15	
gamma-BHC	A	16106	16480	20.00000	20.46444	pg	2	15	
beta-BHC	A	6429.5	7011.2	20.00000	21.80962	pg	9	15	
delta-BHC	A	15777	16193	20.00000	20.52709	pg	3	15	
Heptachlor	A	14688	13740	20.00000	18.70872	pg	-6	15	
Aldrin	A	14644	14828	20.00000	20.25182	pg	1	15	
Heptachlor epoxide	A	13188	13617	20.00000	20.65087	pg	3	15	
gamma-Chlordane	A	13268	13748	20.00000	20.72392	pg	4	15	
alpha-Chlordane	A	12748	13284	20.00000	20.84095	pg	4	15	
4,4'-DDE	A	13114	14255	40.00000	43.48060	pg	9	15	
Endosulfan I	A	11460	12308	20.00000	21.47982	pg	7	15	
Dieldrin	A	13240	14334	40.00000	43.30433	pg	8	15	
Endrin	A	11507	11583	40.00000	40.26502	pg	1	15	
4,4'-DDD	A	10286	12348	40.00000	48.01893	pg	**20**	15	c+ ***
Endosulfan II	A	11148	12097	40.00000	43.40777	pg	9	15	
4,4'-DDT	A	10458	9624.3	40.00000	36.80953	pg	-8	15	
Methoxychlor	A	4750.8	5049.1	200.0000	212.5568	pg	6	15	
Endosulfan sulfate	A	9680.4	10669	40.00000	44.08492	pg	10	15	
Endrin ketone	A	11970	13434	40.00000	44.89400	pg	12	15	
TCMX	A	11042	11317	40.00000	40.99648	pg	2	15	
Decachlorobiphenyl	A	8158.5	8598.6	40.00000	42.15768	pg	5	15	
alpha-BHC	B	23155	23592	20.00000	20.37791	pg	2	15	
gamma-BHC	B	21221	21269	20.00000	20.04563	pg	0	15	
beta-BHC	B	8849.1	8782.9	20.00000	19.85032	pg	-1	15	
delta-BHC	B	21296	21358	20.00000	20.05781	pg	0	15	
Heptachlor	B	16715	17357	20.00000	20.76886	pg	4	15	
Aldrin	B	19848	19949	20.00000	20.10206	pg	1	15	
Heptachlor epoxide	B	18377	18545	20.00000	20.18288	pg	1	15	
gamma-Chlordane	B	18695	18904	20.00000	20.22319	pg	1	15	
alpha-Chlordane	B	18070	18176	20.00000	20.11679	pg	1	15	
4,4'-DDE	B	18277	20792	40.00000	45.50482	pg	14	15	
Endosulfan I	B	16839	17150	20.00000	20.36972	pg	2	15	
Dieldrin	B	18676	20744	40.00000	44.42873	pg	11	15	
Endrin	B	14768	16585	40.00000	44.92097	pg	12	15	
4,4'-DDD	B	14773	16231	40.00000	43.94779	pg	10	15	
Endosulfan II	B	15889	17306	40.00000	43.56589	pg	9	15	
4,4'-DDT	B	13587	15123	40.00000	44.52145	pg	11	15	
Methoxychlor	B	5979.0	7012.9	200.0000	234.5859	pg	**17**	15	c+ ***
Endosulfan sulfate	B	14027	14869	40.00000	42.40234	pg	6	15	
Endrin ketone	B	16941	19208	40.00000	45.35145	pg	13	15	
TCMX	B	14267	14951	40.00000	41.91849	pg	5	15	
Decachlorobiphenyl	B	11644	13753	40.00000	47.24585	pg	**18**	15	c+
Average EPA 8081A	A		(count=22)				6	15	
Average EPA 8081A	B		(count=22)				6	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : ccv IDF : 1.0
Seqnum : 244506511004 Filename : 351_004 Injected : 16-DEC-2004 18:49
Calnum : 244505299001 Caldate : 15-DEC-2004 Caltype :
Standards: 04WS2344

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12312	10556	20.00000	17.14788	pg	-14	15	
gamma-BHC	A	11117	9469.0	20.00000	17.03490	pg	-15	15	
beta-BHC	A	4672.4	4079.3	20.00000	17.46135	pg	-13	15	
delta-BHC	A	11147	9421.2	20.00000	16.90366	pg	-15	15	
Heptachlor	A	10744	8976.9	20.00000	16.71005	pg	-16	15	c- ***
Aldrin	A	10620	8845.1	20.00000	16.65668	pg	-17	15	c- ***
Heptachlor epoxide	A	9720.1	8105.4	20.00000	16.67745	pg	-17	15	c- ***
gamma-Chlordane	A	9771.6	8033.1	20.00000	16.44176	pg	-18	15	c- ***
alpha-Chlordane	A	9158.6	7660.4	20.00000	16.72833	pg	-16	15	c- ***
4,4'-DDE	A	9599.3	7492.3	40.00000	31.22007	pg	-22	15	c- ***
Endosulfan I	A	8636.8	7193.0	20.00000	16.65655	pg	-17	15	c- ***
Dieldrin	A	9972.5	7978.3	40.00000	32.00121	pg	-20	15	c- ***
Endrin	A	8140.5	6271.2	40.00000	30.81463	pg	-23	15	c- ***
4,4'-DDD	A	7351.1	5795.1	40.00000	31.53332	pg	-21	15	c- ***
Endosulfan II	A	7735.6	6192.3	40.00000	32.01937	pg	-20	15	c- ***
4,4'-DDT	A	7354.5	5572.1	40.00000	30.30611	pg	-24	15	c- ***
Methoxychlor	A	3132.1	2428.0	200.0000	155.0359	pg	-22	15	c- ***
Endosulfan sulfate	A	6665.6	5251.0	40.00000	31.51150	pg	-21	15	c- ***
Endrin ketone	A	7331.1	5836.7	40.00000	31.84625	pg	-20	15	c- ***
TCMX	A	7605.1	6481.7	40.00000	34.09148	pg	-15	15	
Decachlorobiphenyl	A	4812.8	3739.1	40.00000	31.07614	pg	-22	15	c-
alpha-BHC	B	11196	10870	20.00000	19.41702	pg	-3	15	
gamma-BHC	B	9869.5	9656.2	20.00000	19.56775	pg	-2	15	
beta-BHC	B	4050.8	4086.4	20.00000	20.17592	pg	1	15	
delta-BHC	B	9610.4	9569.8	20.00000	19.91551	pg	0	15	
Heptachlor	B	8247.4	8255.8	20.00000	20.02029	pg	0	15	
Aldrin	B	8800.9	8695.0	20.00000	19.75925	pg	-1	15	
Heptachlor epoxide	B	7866.0	7870.5	20.00000	20.01136	pg	0	15	
gamma-Chlordane	B	7878.5	7901.2	20.00000	20.05750	pg	0	15	
alpha-Chlordane	B	7526.0	7575.2	20.00000	20.13060	pg	1	15	
4,4'-DDE	B	7670.2	7727.4	40.00000	40.29847	pg	1	15	
Endosulfan I	B	7053.4	7141.9	20.00000	20.25082	pg	1	15	
Dieldrin	B	7618.6	7713.6	40.00000	40.49875	pg	1	15	
Endrin	B	5508.4	5477.3	40.00000	39.77429	pg	-1	15	
4,4'-DDD	B	5786.9	6007.2	40.00000	41.52313	pg	4	15	
Endosulfan II	B	6386.1	6533.1	40.00000	40.92048	pg	2	15	
4,4'-DDT	B	5234.0	5562.2	40.00000	42.50823	pg	6	15	
Methoxychlor	B	2085.9	2385.4	200.0000	228.7145	pg	14	15	
Endosulfan sulfate	B	5420.6	5652.5	40.00000	41.71113	pg	4	15	
Endrin ketone	B	6799.2	7186.5	40.00000	42.27885	pg	6	15	
TCMX	B	6940.8	7192.1	40.00000	41.44828	pg	4	15	
Decachlorobiphenyl	B	3973.5	4840.2	40.00000	48.72509	pg	22	15	c+
Average EPA 8081A	A		(count=22)				19	15	ac
Average EPA 8081A	B		(count=22)				4	15	

+=high bias -=low bias ac=average CCV drift out c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC21
Seqnum : 244506511016
Calnum : 244505299001
Standards: 04WS2053

Run Name : ccv
Filename : 351_016
Caldate : 15-DEC-2004

IDF : 1.0
Injected : 17-DEC-2004 00:38
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12312	10751	25.00000	21.83005	pg	-13	15	
gamma-BHC	A	11117	9714.8	25.00000	21.84646	pg	-13	15	
beta-BHC	A	4672.4	4107.5	25.00000	21.97732	pg	-12	15	
delta-BHC	A	11147	9756.3	25.00000	21.88108	pg	-12	15	
Heptachlor	A	10744	9276.9	25.00000	21.58566	pg	-14	15	
Aldrin	A	10620	9025.8	25.00000	21.24624	pg	-15	15	
Heptachlor epoxide	A	9720.1	8304.8	25.00000	21.35969	pg	-15	15	
gamma-Chlordane	A	9771.6	8280.3	25.00000	21.18458	pg	-15	15	
alpha-Chlordane	A	9158.6	7930.7	25.00000	21.64822	pg	-13	15	
4,4'-DDE	A	9599.3	7963.3	50.00000	41.47855	pg	**-17**	15	c- ***
Endosulfan I	A	8636.8	7527.3	25.00000	21.78829	pg	-13	15	
Dieldrin	A	9972.5	8381.9	50.00000	42.02535	pg	**-16**	15	c- ***
Endrin	A	8140.5	6760.3	50.00000	41.52250	pg	**-17**	15	c- ***
4,4'-DDD	A	7351.1	6216.0	50.00000	42.27970	pg	-15	15	
Endosulfan II	A	7735.6	6548.4	50.00000	42.32630	pg	-15	15	
4,4'-DDT	A	7354.5	6066.8	50.00000	41.24534	pg	**-18**	15	c- ***
Methoxychlor	A	3132.1	2718.4	250.0000	216.9767	pg	-13	15	
Endosulfan sulfate	A	6665.6	5479.7	50.00000	41.10444	pg	**-18**	15	c- ***
Endrin ketone	A	7331.1	6383.9	50.00000	43.53987	pg	-13	15	
TCMX	A	7605.1	6517.9	50.00000	42.85234	pg	-14	15	
Decachlorobiphenyl	A	4812.8	4062.0	50.00000	42.20059	pg	**-16**	15	c-
alpha-BHC	B	11196	10672	25.00000	23.83100	pg	-5	15	
gamma-BHC	B	9869.5	9492.5	25.00000	24.04493	pg	-4	15	
beta-BHC	B	4050.8	3964.0	25.00000	24.46436	pg	-2	15	
delta-BHC	B	9610.4	9411.8	25.00000	24.48338	pg	-2	15	
Heptachlor	B	8247.4	8256.5	25.00000	25.02759	pg	0	15	
Aldrin	B	8800.9	8625.3	25.00000	24.50112	pg	-2	15	
Heptachlor epoxide	B	7866.0	7827.4	25.00000	24.87727	pg	0	15	
gamma-Chlordane	B	7878.5	7876.5	25.00000	24.99372	pg	0	15	
alpha-Chlordane	B	7526.0	7550.4	25.00000	25.08075	pg	0	15	
4,4'-DDE	B	7670.2	7838.8	50.00000	51.09914	pg	2	15	
Endosulfan I	B	7053.4	7126.6	25.00000	25.25959	pg	1	15	
Dieldrin	B	7618.6	7906.3	50.00000	51.88801	pg	4	15	
Endrin	B	5508.4	5590.3	50.00000	50.74361	pg	1	15	
4,4'-DDD	B	5786.9	6206.5	50.00000	53.62606	pg	7	15	
Endosulfan II	B	6386.1	6629.9	50.00000	51.90821	pg	4	15	
4,4'-DDT	B	5234.0	5510.8	50.00000	52.64402	pg	5	15	
Methoxychlor	B	2085.9	2385.1	250.0000	285.8535	pg	14	15	
Endosulfan sulfate	B	5420.6	5629.6	50.00000	51.92766	pg	4	15	
Endrin ketone	B	6799.2	7206.5	50.00000	52.99571	pg	6	15	
TCMX	B	6940.8	7023.0	50.00000	50.59244	pg	1	15	
Decachlorobiphenyl	B	3973.5	4818.0	50.00000	60.62595	pg	**21**	15	c+
Average EPA 8081A	A		(count=22)				15	15	
Average EPA 8081A	B		(count=22)				4	15	

+=high bias -=low bias c=CCV
Page 1 of 1

SEQUENCE SUMMARY FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804491963 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 06-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
005	341_005	PEM				06-DEC-2004 15:23	1.0					1	
006	341_006	CCV	pest_4			06-DEC-2004 15:51	1.0					2	
007	341_007	X	ccv			06-DEC-2004 16:20	1.0					2	
013	341_013	X	hex			06-DEC-2004 20:48	1.0						
014	341_014	PEM				06-DEC-2004 21:16	1.0		1			1	
016	341_016	ICAL	pest_1			06-DEC-2004 22:13	1.0					3	
017	341_017	ICAL	pest_2			06-DEC-2004 22:42	1.0					4	
018	341_018	ICAL	pest_3			06-DEC-2004 23:10	1.0					5	
019	341_019	ICAL	pest_4			06-DEC-2004 23:38	1.0					2	
020	341_020	ICAL	pest_5			07-DEC-2004 00:07	1.0					6	
021	341_021	ICAL	pest_6			07-DEC-2004 00:35	1.0					7	
022	341_022	ICAL	pest_7			07-DEC-2004 01:03	1.0					8	
024	341_024	ICV				07-DEC-2004 02:00	1.0		1			9	
025	341_025	X	icv			07-DEC-2004 02:28	1.0					9	

76

Stds used: 1=04WS2193 2=04WS2052 3=04WS1628 4=04WS1629 5=04WS2051 6=04WS2053 7=04WS1634 8=04WS1635 9=04WS2099

SEQUENCE SUMMARY FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 244505299 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 15-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
004	350_004	X	hex			15-DEC-2004 20:12	1.0						
005	350_005	PEM				15-DEC-2004 20:41	1.0		1			1	
007	350_007	ICAL	pest_1			15-DEC-2004 21:39	1.0					2	
008	350_008	ICAL	pest_2			15-DEC-2004 22:08	1.0					3	
009	350_009	ICAL	pest_3			15-DEC-2004 22:37	1.0					4	
010	350_010	ICAL	pest_4			15-DEC-2004 23:06	1.0					5	
011	350_011	ICAL	pest_5			15-DEC-2004 23:35	1.0					6	
012	350_012	ICAL	pest_6			16-DEC-2004 00:04	1.0					7	
013	350_013	X	pest_7			16-DEC-2004 00:33	1.0					8	
014	350_014	X	hex			16-DEC-2004 01:02	1.0						
015	350_015	ICV				16-DEC-2004 01:31	1.0					9	
016	350_016	X	icv			16-DEC-2004 02:00	1.0					9	
018	350_018	ICAL	pest_7			16-DEC-2004 12:25	1.0					8	
020	350_020	ICV				16-DEC-2004 13:23	1.0		1			9	

77

Stds used: 1=04WS2193 2=04WS1628 3=04WS1629 4=04WS2051 5=04WS2344 6=04WS2053 7=04WS1634 8=04WS1635 9=04WS2099

SEQUENCE SUMMARY FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804504588 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 15-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
002	350_002	PEM				15-DEC-2004 09:48	1.0	1.0		1	1	
003	350_003	CCV	pest_4			15-DEC-2004 10:17	1.0	1.0	2	1	2	
004	350_004	X	pest_4			15-DEC-2004 10:46	1.0	1.0		1	2	
006	350_006	SAMPLE	176476-002	97356	Soil	15-DEC-2004 12:03	5.0	0.6682		1		
007	350_007	SAMPLE	176476-001	97356	Soil	15-DEC-2004 12:33	50.0	0.67	1	1		
008	350_008	X	hex			15-DEC-2004 13:02	1.0					
009	350_009	PEM				15-DEC-2004 13:31	1.0	1.0		1	1	
010	350_010	CCV	pest_3			15-DEC-2004 14:00	1.0	1.0	2	1	3	
015	350_015	BLANK	QC276052	97421	Soil	15-DEC-2004 18:58	1.0	0.6835		1		
016	350_016	BLANK	QC276438	97520	Soil	15-DEC-2004 19:27	1.0	0.6601		1		
017	350_017	LCS	QC276439	97520	Soil	15-DEC-2004 19:56	1.0	0.6596	2	1		
018	350_018	LCS	QC276053	97421	Soil	15-DEC-2004 20:25	1.0	0.6798	2	1		
019	350_019	SAMPLE	176644-001	97520	Soil	15-DEC-2004 20:54	1.0					
021	350_021	PEM				15-DEC-2004 21:53	1.0	1.0		1	1	
022	350_022	CCV	pest_4			15-DEC-2004 22:22	1.0	1.0	2	1	2	
023	350_023	X	ccv			15-DEC-2004 22:51	1.0				2	
024	350_024	PEM				15-DEC-2004 23:20	1.0	1.0		1	1	
026	350_026	SAMPLE	176550-004	97421	Soil	16-DEC-2004 00:18	1.0	0.6592	1	1		3:HEPT-E=184.373
027	350_027	SAMPLE	176550-007	97421	Soil	16-DEC-2004 00:48	1.0	0.6588	1	1		
028	350_028	SAMPLE	176550-009	97421	Soil	16-DEC-2004 01:17	1.0	0.6689	1	1		
029	350_029	MSS	176550-010	97421	Soil	16-DEC-2004 01:46	1.0	0.6698		1		
030	350_030	MS	QC276054	97421	Soil	16-DEC-2004 02:15	1.0	0.678	4	1		
031	350_031	MSD	QC276055	97421	Soil	16-DEC-2004 02:44	1.0	0.6583	4	1		
033	350_033	PEM				16-DEC-2004 03:43	1.0	1.0		1	1	
034	350_034	X	pest_3			16-DEC-2004 04:12	1.0	1.0		1	3	
035	350_035	X	pest_3			16-DEC-2004 04:41	1.0	1.0		1	3	
036	350_036	CCV	pest_5			16-DEC-2004 05:10	1.0	1.0	3	1	4	
037	350_037	PEM				16-DEC-2004 05:40	1.0				1	
039	350_039	SAMPLE	176550-001	97421	Soil	16-DEC-2004 06:38	10.0	0.6553		1		
040	350_040	SAMPLE	176550-002	97421	Soil	16-DEC-2004 07:07	10.0	0.6863		1		1:HEPT-E=144.584
041	350_041	SAMPLE	176550-003	97421	Soil	16-DEC-2004 07:36	10.0	0.651	1	1		

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053

SEQUENCE SUMMARY FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 804504588 Instrument: GC23 Gas Chromatograph #23 ECD Begun: 15-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
042	350_042	SAMPLE	176550-005	97421	Soil	16-DEC-2004 08:06	5.0	0.6523		4	1		
043	350_043	SAMPLE	176550-008	97421	Soil	16-DEC-2004 08:35	10.0	0.668			1		
044	350_044	SAMPLE	176550-011	97421	Soil	16-DEC-2004 09:04	10.0	0.668			1		
045	350_045	SAMPLE	176550-012	97421	Soil	16-DEC-2004 09:33	5.0				1		
046	350_046	SAMPLE	176550-006	97421	Soil	16-DEC-2004 10:02	100.0	0.6725			1		
048	350_048	SAMPLE	176644-001	97520	Soil	16-DEC-2004 11:17	1.0	0.6707			1		
050	350_050	PEM				16-DEC-2004 12:16	1.0	1.0			1	1	
051	350_051	CCV	pest_4			16-DEC-2004 12:45	1.0	1.0	1		1	2	
052	350_052	X	ccv			16-DEC-2004 13:14	1.0					2	
053	350_053	X	PEM			16-DEC-2004 13:43	1.0					1	
055	350_055	BLANK	QC276384	97504	Water	16-DEC-2004 19:37	1.0	0.01	2		1		
056	350_056	BS	QC276385	97504	Water	16-DEC-2004 20:06	1.0	0.01	3		1		
057	350_057	BSD	QC276386	97504	Water	16-DEC-2004 20:35	1.0	0.01	3		1		
058	350_058	SAMPLE	176550-004	97421	Soil	16-DEC-2004 21:05	4.0	0.6592	2		1		
059	350_059	SAMPLE	176550-005	97421	Soil	16-DEC-2004 21:34	5.0	0.6523	2		1		
060	350_060	SAMPLE	176550-012	97421	Soil	16-DEC-2004 22:03	5.0	0.684	3		1		
061	350_061	SAMPLE	176620-001	97504	Water	16-DEC-2004 22:32	1.0	0.009804	2		1		
063	350_063	X				16-DEC-2004 23:30	1.0	1.0			1	1	
064	350_064	X	pest_5			17-DEC-2004 00:00	1.0					4	
065	350_065	X	ccv			17-DEC-2004 00:29	1.0					4	
066	350_066	CCV	ccv			17-DEC-2004 00:58	1.0	1.0	2		1	3	
067	350_067	PEM	pem			17-DEC-2004 01:27	1.0	1.0			1	1	

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053

SEQUENCE SUMMARY FOR 176656 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 244506511 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 16-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	351_002	PEM				16-DEC-2004 17:51	1.0	1.0			1	1	
003	351_003	X	pest_4			16-DEC-2004 18:20	1.0					2	
004	351_004	CCV	ccv			16-DEC-2004 18:49	1.0	1.0	16		1	2 ac	
007	351_007	SAMPLE	176634-001	97520	Soil	16-DEC-2004 20:16	10.0	0.6707	15		1	<ac	
008	351_008	SAMPLE	176634-004	97520	Soil	16-DEC-2004 20:45	10.0	0.6684	15		1	<ac	
009	351_009	MSS	176656-001	97520	Soil	16-DEC-2004 21:14	1.0	0.6631	16		1	<ac	
010	351_010	MS	QC276440	97520	Soil	16-DEC-2004 21:43	1.0	0.6623	16		1	<ac	
011	351_011	MSD	QC276441	97520	Soil	16-DEC-2004 22:12	1.0	0.6693	16		1	<ac	
013	351_013	PEM				16-DEC-2004 23:10	1.0	1.0			1	1	
014	351_014	X	pest_3			16-DEC-2004 23:40	1.0					3	
015	351_015	X	ccv			17-DEC-2004 00:09	1.0					3	
016	351_016	CCV	ccv			17-DEC-2004 00:38	1.0	1.0	6		1	4	
017	351_017	X	pem			17-DEC-2004 01:07	1.0					1	

80

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053
Flags used: <=opening ac=average CCV drift out

Reporting Summary for 176656 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176656-001	alpha-BHC	GC21	B	12/16/04 21:14
176656-001	beta-BHC	GC21	B	12/16/04 21:14
176656-001	gamma-BHC	GC21	B	12/16/04 21:14
176656-001	delta-BHC	GC21	B	12/16/04 21:14
176656-001	Heptachlor	GC21	B	12/16/04 21:14
176656-001	Aldrin	GC21	B	12/16/04 21:14
176656-001	Heptachlor epoxide	GC21	B	12/16/04 21:14
176656-001	Endosulfan I	GC21	B	12/16/04 21:14
176656-001	Dieldrin	GC21	B	12/16/04 21:14
176656-001	4,4'-DDE	GC21	B	12/16/04 21:14
176656-001	Endrin	GC21	B	12/16/04 21:14
176656-001	Endosulfan II	GC21	B	12/16/04 21:14
176656-001	Endosulfan sulfate	GC21	B	12/16/04 21:14
176656-001	4,4'-DDD	GC21	B	12/16/04 21:14
176656-001	Endrin ketone	GC21	B	12/16/04 21:14
176656-001	4,4'-DDT	GC21	B	12/16/04 21:14
176656-001	Chlordane (Technical)	GC21	A	12/16/04 21:14
176656-001	alpha-Chlordane	GC21	B	12/16/04 21:14
176656-001	gamma-Chlordane	GC21	B	12/16/04 21:14
176656-001	Methoxychlor	GC21	B	12/16/04 21:14
176656-001	Toxaphene	GC21	A	12/16/04 21:14
176656-001	TCMX	GC21	B	12/16/04 21:14
176656-001	Decachlorobiphenyl	GC21	B	12/16/04 21:14
QC276438	alpha-BHC	GC23	A	12/15/04 19:27
QC276438	beta-BHC	GC23	A	12/15/04 19:27
QC276438	gamma-BHC	GC23	A	12/15/04 19:27
QC276438	delta-BHC	GC23	A	12/15/04 19:27
QC276438	Heptachlor	GC23	A	12/15/04 19:27
QC276438	Aldrin	GC23	A	12/15/04 19:27
QC276438	Heptachlor epoxide	GC23	A	12/15/04 19:27
QC276438	Endosulfan I	GC23	A	12/15/04 19:27
QC276438	Dieldrin	GC23	A	12/15/04 19:27
QC276438	4,4'-DDE	GC23	A	12/15/04 19:27
QC276438	Endrin	GC23	A	12/15/04 19:27
QC276438	Endosulfan II	GC23	A	12/15/04 19:27
QC276438	Endosulfan sulfate	GC23	A	12/15/04 19:27
QC276438	4,4'-DDD	GC23	A	12/15/04 19:27
QC276438	Endrin ketone	GC23	A	12/15/04 19:27
QC276438	4,4'-DDT	GC23	A	12/15/04 19:27
QC276438	Chlordane (Technical)	GC23	A	12/15/04 19:27
QC276438	alpha-Chlordane	GC23	A	12/15/04 19:27
QC276438	gamma-Chlordane	GC23	A	12/15/04 19:27
QC276438	Methoxychlor	GC23	A	12/15/04 19:27
QC276438	Toxaphene	GC23	A	12/15/04 19:27
QC276438	TCMX	GC23	A	12/15/04 19:27
QC276438	Decachlorobiphenyl	GC23	A	12/15/04 19:27
QC276439	gamma-BHC	GC23	A	12/15/04 19:56
QC276439	Heptachlor	GC23	A	12/15/04 19:56
QC276439	Aldrin	GC23	A	12/15/04 19:56
QC276439	Dieldrin	GC23	A	12/15/04 19:56
QC276439	Endrin	GC23	A	12/15/04 19:56
QC276439	4,4'-DDT	GC23	A	12/15/04 19:56

Reporting Summary for 176656 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC276439	TCMX	GC23	A	12/15/04 19:56
QC276439	Decachlorobiphenyl	GC23	A	12/15/04 19:56
QC276440	gamma-BHC	GC21	B	12/16/04 21:43
QC276440	Heptachlor	GC21	B	12/16/04 21:43
QC276440	Aldrin	GC21	B	12/16/04 21:43
QC276440	Dieldrin	GC21	B	12/16/04 21:43
QC276440	Endrin	GC21	B	12/16/04 21:43
QC276440	4,4'-DDT	GC21	B	12/16/04 21:43
QC276440	TCMX	GC21	B	12/16/04 21:43
QC276440	Decachlorobiphenyl	GC21	B	12/16/04 21:43
QC276441	gamma-BHC	GC21	B	12/16/04 22:12
QC276441	Heptachlor	GC21	B	12/16/04 22:12
QC276441	Aldrin	GC21	B	12/16/04 22:12
QC276441	Dieldrin	GC21	B	12/16/04 22:12
QC276441	Endrin	GC21	B	12/16/04 22:12
QC276441	4,4'-DDT	GC21	B	12/16/04 22:12
QC276441	TCMX	GC21	B	12/16/04 22:12
QC276441	Decachlorobiphenyl	GC21	B	12/16/04 22:12

Curtis & Tompkins Laboratories Sample Preparation Summary 16-DEC-2004 08:33

Batch Number : 97520
Date Extracted: 15-DEC-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225C
Spike #2 ID : 04SS445I
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176634-001			Iris Environmental	Soil	14.91	g	10	0.670691	1		.02	0		8081	3620B	
176634-004			Iris Environmental	Soil	14.96	g	10	0.668449	1		.02	0		8081	3620B	
176644-001			Montezuma Wetlands LLC	Soil	14.91	g	10	0.670691	1		.02	0		8081	3620B	
176656-001			Treadwell & Rollo	Soil	15.08	g	10	0.663130	1		.02	0		8081	3620B	mss
QC276438	MB			Soil	15.15	g	10	0.660066	1		.02	0		8081	3620B	
QC276439	LCS			Soil	15.16	g	10	0.659631	1		.02	.025		8081	3620B	
QC276440	MS	of 176656-001		Soil	15.1	g	10	0.662252	1		.02	.025		8081	3620B	
QC276441	MSD	of 176656-001		Soil	14.94	g	10	0.669344	1		.02	.025		8081	3620B	

Prep Chemist: Jessie Mee Reviewed By: [illegible] Date: 12/16/04

Relinquished By: Jessie Mee Received By: [illegible] Date: 12/16/04

Curtis & Tompkins, Ltd.

8081 SOIL PREP LOG

BK 1965

Page 90

LIMS Batch No: 97520

LIMS Analysis: 8081

Extracted by: JM

Date Extracted: 15Dec04

Extraction Method:

- ☐ EPA 3550b Sonication
- ☒ EPA 3545 PFE (Mth# 10)
- ☐ EPA 3540c Soxhlet
- ☐ _____

Cleanup Method:

- ☐ EPA 3640a GPC
- ☒ EPA 3620b Florisil
- ☐ _____

	Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
JM 15Dec04	GHH 176644-001	14.91	10.0	X	very wet sample
	MB QC276438	15.16	↓	↓	
	LCS 39	15.16			
	MS 40	15.10			
5	MSD 41	14.91			
	176631-001A JM 15Dec04	14.91			
	42	14.90			
	176650-001A	15.08			MSS
10					
15					
20					

JM 15Dec04

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM440204 21	JM 15Dec04
dried with CH_2Cl_2 rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex 040603	
0.02 mL of surrogate solution was added to all samples	CHUS 2225C	
0.025 mL of spike solution was added to all spikes	CHSS 445C	
1:1 CH_2Cl_2 (lot# EM4444) / acetone (lot# EM4444) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used	Whatman D28	
Soxhlets on at:	N/A	
Soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2 rinsed powdered Na_2SO_4	N/A	JM 16Dec04
Exchanged 2x with Hexane	CM603	
Concentrated: ☒ to volumes as noted above ☒ to clean-up volume	✓	
Clean-up (if necessary): ☐ GPC (see GPC run log) ☒ Florisil	✓	

JM 15Dec04 — Analyst / Date

Continued from page ____

Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: JDM

Cleanup Date: 16 Dec 04

Benchbook # **BK 1991**

Page 80

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
176634-001	97520	1.0	1.0	
↓ -004	↓	↓	↓	
176656-001				MSS
MS QC276440				
MSD ↓ 41				

16 Dec 04

JDM

Mfg & Lot # / Time / Program — Initials / Date

☒ Extracts were cleaned up using Florisil cartridges	Restek 20321 A2	JDM 16 Dec 04
Florisil cartridges/ columns rinsed 3x with Hexane	CM1013	
Extracts were eluted with 1.0 mL 9:1 Hexane/Acetone — Hexane	CL1005	
Acetone	EM4474	
Concentrated to volumes as noted above	✓	✓

16 Dec 04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

Reviewed by / Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
1766639-001A	50.08	TEHM	
-002	50.25		
-003	50.18		MSS
-004	49.62		
-005	50.07		
-006	50.15		
MS	49.88		1766639-003A
MSD	50.25		
LCS	49.69		EMCA(0)P(5)1
MB	49.76		
1766642-001A	30.34	8270-SIM	aka. 176199-001A
MS	30.41		extracted past
MSD	30.08		hold
LCS	29.93		
MB	30.36		
1766615-001A	15.12	PCB	
MS	15.06		
MSD	15.17		
LCS	14.91		
MB	15.16		
1766565-001A	15.07	PCB	aka 1763[illegible]-001A
1766557-005A	50.09	TEHM	4, COMP 1A-4A
1766637-001A	50.13	TEHM	SILICAGEL
-002	50.05		
-003	50.05		
1766637-001A	14.91	PCB	MC 12/15 ~~2, COMP 2A-3A~~
-004	15.04		2, COMP 2A-3A
1766637-001A	14.91	8081	MC 12/15
-004	14.96		2, COMP 2A-3A
1766644-001	15.09	PCB	4, COMP 1A-D
1766644-001	14.91	8081	
MB	15.15		
LCS	15.16		

Continued on Page

Michelle Cintas
Signed

12/15/04
Date

Read and Understood By

Signed

Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
1766538-001A	50.05	TEHM	NOT ENOUGH SAMPLE FOR MS/MSD
-002	Me 12/15 ~~49.96~~ 49.88		
-004	50.18		
-005	50.25		
-007	50.04		
-009	49.90		
-010	50.18		
-012	49.76		
-013	Me 12/15 ~~49.90~~ 50.29		
-015	49.98		
-016	49.89		
-018	49.82		
-019	50.13		
-021	50.11		
-022	50.46		
-024	50.14		
-025	50.06		
-026	50.35		
-029	49.98		
~~MS~~ Me 12/15			
~~MSD~~			
~~LCS~~	49.91		EM440 28421
~~MB~~	50.37		
1766556-002	50.41	TEHM 8081	MSS, SILICAGEL MSS
1766556-001	15.08		
MS	15.10		1766556-001A
MSD	14.94		
~~LCS~~ Me 12/15			Me 12/15 ~~EM440 28421~~
~~MB~~			
MS	50.00	TEHM	1766556-002A
MSD	50.32		
~~LCS~~ Me 12/15			
~~I~~			

Me 12/15/04

Continued on Page

Read and Understood By

Michelle Curtis 12/15/04 87

Signed Date Signed Date

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176639-001A	50.08	TEHM	
-002	50.25		
-003	50.18		MSS
-004	49.62		
-005	50.07		
-006	50.15		
MS	49.88		176639-003A
MSD	50.25		
LCS	49.69		EM4402842
MB	49.76		
176642-001A	30.34	8270-SIM	aka. 176199-001A,M
MS	30.41		extracted past
MSD	30.08		hold
LCS	29.93		EM4402842
MB	30.36		
176615-001A	15.12	PCB	
MS	15.06		
MSD	15.17		
LCS	14.91		EM4402842
MB	15.16		
176565-001A	15.07	PCB	aka 176345-001A
176557-005A	50.09	TEHM	4, COMP 1A-4A
176634-001A	50.13	TEHM	SILICA GEL
-002	50.05		
-003	50.05		
176634-001A	14.91	PCB	MC 12/15 ~~2, COMP 2A-3A~~
-004	15.04		2, COMP 2A-3A
176637-001A	14.91	8081	MC 12/15
-004	14.96		2, COMP 2A-3A
176644-001	15.09	PCB	4, COMP 1A-D
176644-001	14.91	8081	
MB	15.15		EM4402842
LCS	15.16		

12/15/04

Continued on Page

Michelle Cintas
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12/15/04
Date

Read and Understood By

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Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: DM
Cleanup Date: 15 Dec 04

Benchbook # **BK 1991**
Page 79

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
1761644-001	97520	1.0	1.0	
MB QC276438	↓	↓	↓	
LCS ↓ 39	↓	↓	↓	

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14B A	GC14B B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

METALS

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3-CLLAB	Batch#:	97523
Lab ID:	176656-002	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04
Units:	mg/Kg	Prepared:	12/16/04
Basis:	dry		

Moisture: 16%

Analyte	Result	RL	Diln Fac	Analyzed
Antimony	3.9	3.8	1.000	12/16/04
Arsenic	1.1	0.32	1.000	12/16/04
Barium	130	0.64	1.000	12/16/04
Beryllium	0.62	0.13	1.000	12/16/04
Cadmium	ND	0.32	1.000	12/16/04
Chromium	35	0.64	1.000	12/16/04
Cobalt	12	1.3	1.000	12/16/04
Copper	13	0.64	1.000	12/16/04
Iron	25,000	32	5.000	12/17/04
Lead	4.7	0.19	1.000	12/16/04
Manganese	420	0.64	1.000	12/16/04
Molybdenum	ND	1.3	1.000	12/16/04
Nickel	14	1.3	1.000	12/16/04
Selenium	0.61	0.32	1.000	12/16/04
Silver	ND	0.32	1.000	12/16/04
Thallium	ND	0.32	1.000	12/16/04
Vanadium	39	0.64	1.000	12/16/04
Zinc	25	1.3	1.000	12/16/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276450	Batch#:	97523
Matrix:	Soil	Prepared:	12/16/04
Units:	mg/Kg	Analyzed:	12/16/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Iron	ND	5.0
Lead	ND	0.15
Manganese	ND	0.50
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	97523
Basis:	as received	Prepared:	12/16/04

Type: BS Lab ID: QC276451

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	100.0	95.50	96	75-125	12/16/04
Arsenic	50.00	49.65	99	75-125	12/16/04
Barium	100.0	94.00	94	75-125	12/16/04
Beryllium	2.500	2.630	105	75-125	12/16/04
Cadmium	10.00	9.800	98	75-125	12/16/04
Chromium	100.0	101.5	102	75-125	12/16/04
Cobalt	25.00	25.30	101	75-125	12/16/04
Copper	12.50	13.05	104	75-125	12/16/04
Iron	1,000	1,023	102	75-125	12/17/04
Lead	100.0	102.5	103	75-125	12/16/04
Manganese	25.00	25.35	101	75-125	12/16/04
Molybdenum	20.00	20.70	104	75-125	12/16/04
Nickel	25.00	24.65	99	75-125	12/16/04
Selenium	50.00	48.75	98	75-125	12/16/04
Silver	10.00	10.00	100	75-125	12/16/04
Thallium	50.00	49.25	99	75-125	12/16/04
Vanadium	25.00	25.70	103	75-125	12/16/04
Zinc	25.00	24.40	98	75-125	12/16/04

Type: BSD Lab ID: QC276452

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.0	98.00	98	75-125	3	30	12/16/04
Arsenic	50.00	50.50	101	75-125	2	30	12/16/04
Barium	100.0	95.00	95	75-125	1	30	12/16/04
Beryllium	2.500	2.685	107	75-125	2	30	12/16/04
Cadmium	10.00	9.950	100	75-125	2	30	12/16/04
Chromium	100.0	103.0	103	75-125	1	30	12/16/04
Cobalt	25.00	25.80	103	75-125	2	30	12/16/04
Copper	12.50	13.25	106	75-125	2	30	12/16/04
Iron	1,000	1,046	105	75-125	2	30	12/17/04
Lead	100.0	105.0	105	75-125	2	30	12/16/04
Manganese	25.00	25.85	103	75-125	2	30	12/16/04
Molybdenum	20.00	21.05	105	75-125	2	30	12/16/04
Nickel	25.00	25.05	100	75-125	2	30	12/16/04
Selenium	50.00	49.95	100	75-125	2	30	12/16/04
Silver	10.00	10.15	102	75-125	1	30	12/16/04
Thallium	50.00	50.00	100	75-125	2	30	12/16/04
Vanadium	25.00	26.20	105	75-125	2	30	12/16/04
Zinc	25.00	24.85	99	75-125	2	30	12/16/04

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3-CLLAB	Batch#:	97523
MSS Lab ID:	176656-002	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04
Units:	mg/Kg	Prepared:	12/16/04
Basis:	dry		

Type: MS Moisture: 16%
Lab ID: QC276453

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed
Antimony	3.936	98.39	49.14	46 *	75-125	1.000	12/16/04
Arsenic	1.107	49.19	43.19	86	75-125	1.000	12/16/04
Barium	126.7	98.39	210.5	85	75-125	1.000	12/16/04
Beryllium	0.6215	2.460	3.104	101	75-125	1.000	12/16/04
Cadmium	0.2119	9.839	8.953	89	75-125	1.000	12/16/04
Chromium	35.46	98.39	126.9	93	75-125	1.000	12/16/04
Cobalt	12.35	24.60	34.98	92	75-125	1.000	12/16/04
Copper	12.80	12.30	25.09	100	75-125	1.000	12/16/04
Iron	25,120	983.9	24,350	-78 NM	75-125	5.000	12/17/04
Lead	4.672	98.39	97.89	95	75-125	1.000	12/16/04
Manganese	416.0	24.60	431.4	63 NM	75-125	1.000	12/16/04
Molybdenum	0.1651	19.68	17.66	89	75-125	1.000	12/16/04
Nickel	14.21	24.60	34.48	82	75-125	1.000	12/16/04
Selenium	0.6100	49.19	41.37	83	75-125	1.000	12/16/04
Silver	<0.1310	9.839	9.396	96	75-125	1.000	12/16/04
Thallium	<0.2738	49.19	43.93	89	75-125	1.000	12/16/04
Vanadium	39.23	24.60	61.49	90	75-125	1.000	12/16/04
Zinc	24.64	24.60	47.08	91	75-125	1.000	12/16/04

Type: MSD Moisture: 16%
Lab ID: QC276454

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
Antimony	124.0	68.20	52 *	75-125	10	30	1.000	12/16/04
Arsenic	62.00	54.87	87	75-125	1	30	1.000	12/16/04
Barium	124.0	237.5	89	75-125	1	30	1.000	12/16/04
Beryllium	3.100	3.782	102	75-125	1	30	1.000	12/16/04
Cadmium	12.40	11.16	88	75-125	1	30	1.000	12/16/04
Chromium	124.0	151.9	94	75-125	0	30	1.000	12/16/04
Cobalt	31.00	42.47	97	75-125	3	30	1.000	12/16/04
Copper	15.50	28.71	103	75-125	1	30	1.000	12/16/04
Iron	1,240	26,040	74 NM	75-125	6	30	5.000	12/17/04
Lead	124.0	123.4	96	75-125	1	30	1.000	12/16/04
Manganese	31.00	486.7	228 NM	75-125	11	30	1.000	12/16/04
Molybdenum	24.80	22.69	91	75-125	2	30	1.000	12/16/04
Nickel	31.00	40.80	86	75-125	2	30	1.000	12/16/04
Selenium	62.00	53.08	85	75-125	2	30	1.000	12/16/04
Silver	12.40	11.90	96	75-125	1	30	1.000	12/16/04
Thallium	62.00	55.12	89	75-125	0	30	1.000	12/16/04
Vanadium	31.00	70.68	101	75-125	4	30	1.000	12/16/04
Zinc	31.00	53.76	94	75-125	1	30	1.000	12/16/04

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 26 Metals

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050B
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3-CLLAB	Units:	mg/Kg
Type:	Serial Dilution	Basis:	dry
MSS Lab ID:	176656-002	Batch#:	97523
Lab ID:	QC276455	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04

Moisture: 16%

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed
Antimony	3.936	3.840	2.8 J	19		10	5.000	12/16/04
Arsenic	1.107	0.3200	1.2 J	1.6		10	5.000	12/16/04
Barium	126.7	0.6400	120	3.2	2	10	5.000	12/16/04
Beryllium	0.6215	0.1280	0.46 J	0.64	26 *	10	5.000	12/16/04
Cadmium	ND	0.3200	0.18 J	1.6		10	5.000	12/16/04
Chromium	35.46	0.6400	36	3.2	3	10	5.000	12/16/04
Cobalt	12.35	1.280	13	6.4	8	10	5.000	12/16/04
Copper	12.80	0.6400	13	3.2	2	10	5.000	12/16/04
Iron	25,120	32.00	26,000	160	2	10	25.00	12/17/04
Lead	4.672	0.1920	4.3	0.96	8	10	5.000	12/16/04
Manganese	416.0	0.6400	420	3.2	1	10	5.000	12/16/04
Molybdenum	ND	1.280	ND	6.4		10	5.000	12/16/04
Nickel	14.21	1.280	15	6.4	3	10	5.000	12/16/04
Selenium	0.6100	0.3200	ND	1.6		10	5.000	12/16/04
Silver	ND	0.3200	ND	1.6		10	5.000	12/16/04
Thallium	ND	0.3200	ND	1.6		10	5.000	12/16/04
Vanadium	39.23	0.6400	40	3.2	2	10	5.000	12/16/04
Zinc	24.64	1.280	25	6.4	0	10	5.000	12/16/04

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid	: MET07	Instid	: MET07
Seqnum	: 74505851010	Seqnum	: 74505851017
Filename	: tr258051	Filename	: tr258058
IDF	: 1.0	IDF	: 1.0
PDF	: 53.76	PDF	: 53.76
Run type	: MSS	Run type	: PDS
Samplenum	: 176656-002	Samplenum	: QC276456
Matrix	: Soil	Matrix	: Soil
Batchnum	: 97523	Batchnum	: 97523
Inj	: 16-DEC-2004 08:00	Inj	: 16-DEC-2004 08:55
Units	: ug/L		

Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	*** usable MSS data not found ***					
Antimony	61.50	2000	1870	90	75-125	u
Arsenic	17.30	1000	942.0	92	75-125	u
Barium	1980	2000	3850	94	75-125	u
Beryllium	9.710	50	55.60	92	75-125	u
Cadmium	3.310	200	184.0	90	75-125	u
Calcium	*** usable MSS data not found ***					
Chromium	554.0	2000	2310	88	75-125	u
Cobalt	193.0	500	624.0	86	75-125	u
Copper	200.0	250	430.0	92	75-125	u
Iron	*** usable MSS data not found ***					
Lead	73.00	2000	1860	89	75-125	u
Magnesium	*** usable MSS data not found ***					
Manganese	6500	500	6550	10	75-125	: u
Molybdenum	2.580	400	366.0	91	75-125	u
Nickel	222.0	500	645.0	85	75-125	u
Selenium	9.530	1000	909.0	90	75-125	u
Silver	ND	200	182.0	91	75-125	u
Thallium	ND	1000	913.0	91	75-125	u
Vanadium	613.0	500	1040	85	75-125	u
Zinc	385.0	500	810.0	85	75-125	u
Titanium	*** usable MSS data not found ***					

:=recovery not meaningful u=use

Method: 6010B Standard: blank
Run Time: 12/16/04 06:44:34

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.004	.003	-.001	.001	-.302	.005	.000
SDev	.001	.000	.001	.001	.003	.001	.000
%RSD	32.0	8.83	118.	124.	1.03	11.3	32.1
#1	-.005	.003	-.002	.000	-.300	.005	.001
#2	-.003	.003	-.000	.001	-.305	.005	.000

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.008	.007	-.002	.001	.002	-.002
SDev	.000	.000	.004	.003	.001	.000	.002
%RSD	73.3	1.95	57.5	138.	120.	17.2	72.4
#1	-.001	.008	.004	-.005	.002	.002	-.001
#2	-.000	.008	.010	-.000	.000	.002	-.004

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.000	-.002	.001	.035	.0586	-.0027
SDev	.001	.002	.000	.000	.000	.0005	.0001
%RSD	36.4	382.	7.04	54.7	.985	.8712	3.722
#1	.002	.001	-.003	.000	.035	.0582	-.0027
#2	.004	-.002	-.002	.001	.035	.0590	-.0028

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0021	-.0003	.001	.263
SDev	.0003	.0000	.000	.002
%RSD	12.72	8.460	28.4	.583
#1	-.0020	-.0003	.001	.262
#2	-.0023	-.0002	.001	.264

Method: 6010B Standard: cst hi
Run Time: 12/16/04 06:48:06

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.827	.464	.168	15.0	2.58	.852	.208
SDev	.025	.009	.008	.6	.11	.035	.009
%RSD	3.05	1.93	4.53	3.90	4.34	4.05	4.27
#1	.809	.457	.162	14.6	2.50	.827	.202
#2	.845	.470	.173	15.4	2.65	.876	.214

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.590	.467	.673	.644	1.33	1.49	.186
SDev	.024	.018	.014	.021	.08	.06	.004
%RSD	4.04	3.83	2.09	3.24	6.06	4.21	2.29
#1	.573	.455	.663	.629	1.28	1.44	.183
#2	.607	.480	.683	.659	1.39	1.53	.189

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.207	.274	.110	.785	.152	.1589	.2906
SDev	.003	.011	.007	.032	.006	.0062	.0118
%RSD	1.26	3.99	6.07	4.06	3.67	3.885	4.061
#1	.205	.266	.105	.763	.148	.1546	.2823
#2	.209	.281	.115	.808	.156	.1633	.2990

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1034	.1559	.968	6.57
SDev	.0037	.0066	.039	.26
%RSD	3.611	4.206	4.02	4.03
#1	.1008	.1513	.940	6.38
#2	.1060	.1605	.995	6.75

Standardization Report 12/16/04 06:51:38 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	1196.56	4.54030	12/16/04 06:48:06
Sb206A	206.832	Multiple	Standards	2126.03	-5.70668	12/16/04 06:48:06
As1890	189.042	Multiple	Standards	2968.39	3.16282	12/16/04 06:48:06
Ba4934	493.409	Multiple	Standards	66.7932	-.049032	12/16/04 06:48:06
Be3130	313.042	Multiple	Standards	33.5536	10.1484	12/16/04 06:48:06
Cd2265	226.502	Multiple	Standards	118.035	-.584107	12/16/04 06:48:06
Cr2677	267.716	Multiple	Standards	964.372	-.448371	12/16/04 06:48:06
Co2286	228.616	Multiple	Standards	848.699	.369241	12/16/04 06:48:06
Cu3247	324.754	Multiple	Standards	435.285	-3.45549	12/16/04 06:48:06
Pb2203	220.351	Multiple	Standards	751.263	-5.39365	12/16/04 06:48:06
Pb220A	220.352	Multiple	Standards	767.083	1.83062	12/16/04 06:48:06
Mo2020	202.030	Multiple	Standards	750.238	-.754359	12/16/04 06:48:06
Ni2316	231.604	Multiple	Standards	336.398	-.711308	12/16/04 06:48:06
Se1960	196.021	Multiple	Standards	2650.01	6.19557	12/16/04 06:48:06
Se196A	196.022	Multiple	Standards	2448.70	-7.81871	12/16/04 06:48:06
Ag3280	328.068	Multiple	Standards	365.069	.180154	12/16/04 06:48:06
Tl1908	190.864	Multiple	Standards	4485.12	11.0299	12/16/04 06:48:06
V_2924	292.402	Multiple	Standards	637.336	-.468089	12/16/04 06:48:06
Zn2138	213.856	Multiple	Standards	886.298	-31.2308	12/16/04 06:48:06
Al3082	308.215	Multiple	Standards	10153.6	-594.985	12/16/04 06:48:06
Ca3179	317.933	Multiple	Standards	6816.75	18.7047	12/16/04 06:48:06
Fe2714	271.441	Multiple	Standards	9916.95	21.2622	12/16/04 06:48:06
Mg2790	279.079	Multiple	Standards	12801.4	3.26337	12/16/04 06:48:06
Mn2576	257.610	Multiple	Standards	103.443	-.085327	12/16/04 06:48:06
Pb sum	220.353	NONE	NONE	1.00000	.000000	*12/16/04 06:48:06
Sb sum	206.838	NONE	NONE	1.00000	.000000	*12/16/04 06:48:06
Se sum	196.026	NONE	NONE	1.00000	.000000	*12/16/04 06:48:06
Ti3349	334.941	Multiple	Standards	158.688	-41.7974	12/16/04 06:48:06

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74505851001 Filename : tr258042 Injected : 16-DEC-2004 06:51
Caltype :
Standards: 04WS2257

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	1015.000	ug/L	2	5	
Antimony	1000.000	1010.000	ug/L	1	5	
Arsenic	500.0000	494.0000	ug/L	-1	5	
Barium	1000.000	1010.000	ug/L	1	5	
Beryllium	100.0000	99.50000	ug/L	-1	5	
Cadmium	100.0000	99.00000	ug/L	-1	5	
Calcium	2000.000	1992.000	ug/L	0	5	
Chromium	200.0000	200.0000	ug/L	0	5	
Cobalt	500.0000	501.0000	ug/L	0	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1001.000	ug/L	0	5	
Lead	500.0000	506.0000	ug/L	1	5	
Magnesium	2000.000	1992.000	ug/L	0	5	
Manganese	100.0000	100.0000	ug/L	0	5	
Molybdenum	1000.000	1010.000	ug/L	1	5	
Nickel	500.0000	499.0000	ug/L	0	5	
Selenium	500.0000	508.0000	ug/L	2	5	
Silver	100.0000	101.0000	ug/L	1	5	
Thallium	500.0000	518.0000	ug/L	4	5	
Titanium	1000.000	1000.000	ug/L	0	5	
Vanadium	500.0000	501.0000	ug/L	0	5	
Zinc	100.0000	99.90000	ug/L	0	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74505851002 Filename : tr258043 Injected : 16-DEC-2004 06:59
Caltype :

Standards: 04WS2356

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	500.0000	503.5000	ug/L	1	10
Antimony	500.0000	511.0000	ug/L	2	10
Arsenic	250.0000	255.0000	ug/L	2	10
Barium	500.0000	499.0000	ug/L	0	10
Beryllium	50.00000	50.90000	ug/L	2	10
Cadmium	50.00000	51.40000	ug/L	3	10
Calcium	1000.000	1041.000	ug/L	4	10
Chromium	100.0000	103.0000	ug/L	3	10
Cobalt	250.0000	252.0000	ug/L	1	10
Copper	100.0000	104.0000	ug/L	4	10
Iron	500.0000	525.4000	ug/L	5	10
Lead	250.0000	259.0000	ug/L	4	10
Magnesium	1000.000	1034.000	ug/L	3	10
Manganese	50.00000	50.10000	ug/L	0	10
Molybdenum	500.0000	514.0000	ug/L	3	10
Nickel	250.0000	255.0000	ug/L	2	10
Selenium	250.0000	254.0000	ug/L	2	10
Silver	50.00000	51.20000	ug/L	2	10
Thallium	250.0000	253.0000	ug/L	1	10
Titanium	500.0000	500.0000	ug/L	0	10
Vanadium	250.0000	253.0000	ug/L	1	10
Zinc	50.00000	50.50000	ug/L	1	10

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74505851004 Filename : tr258045 Injected : 16-DEC-2004 07:07
Caltype :

Standards: 04WS2346

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	112.6000	ug/L	13	50	
Antimony	60.00000	61.40000	ug/L	2	50	
Arsenic	5.000000	5.790000	ug/L	16	50	
Barium	10.00000	9.980000	ug/L	0	50	
Beryllium	2.000000	1.890000	ug/L	-6	50	
Cadmium	5.000000	5.130000	ug/L	3	50	
Calcium	200.0000	245.8000	ug/L	23	50	
Chromium	10.00000	9.750000	ug/L	-3	50	
Cobalt	20.00000	19.60000	ug/L	-2	50	
Copper	10.00000	10.30000	ug/L	3	50	
Iron	100.0000	118.6000	ug/L	19	50	
Lead	3.000000	3.080000	ug/L	3	50	
Magnesium	200.0000	218.1000	ug/L	9	50	
Manganese	10.00000	10.00000	ug/L	0	50	
Molybdenum	20.00000	21.80000	ug/L	9	50	
Nickel	20.00000	19.70000	ug/L	-2	50	
Selenium	5.000000	4.190000	ug/L	-16	50	
Silver	5.000000	5.070000	ug/L	1	50	
Thallium	5.000000	4.250000	ug/L	-15	50	
Vanadium	10.00000	10.10000	ug/L	1	50	
Zinc	20.00000	19.60000	ug/L	-2	50	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74505851015
Run Name :
Filename : tr258056
IDF : 1.0
Injected : 16-DEC-2004 08:36
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	501.7000	ug/L	0	10	
Antimony		500.0000	522.0000	ug/L	4	10	
Arsenic		250.0000	253.0000	ug/L	1	10	
Barium		500.0000	470.0000	ug/L	-6	10	
Beryllium		50.00000	54.60000	ug/L	9	10	
Cadmium		50.00000	50.30000	ug/L	1	10	
Calcium		1000.000	1182.000	ug/L	**18**	10	c+ **
Chromium		100.0000	108.0000	ug/L	8	10	
Cobalt		250.0000	265.0000	ug/L	6	10	
Copper		100.0000	109.0000	ug/L	9	10	
Iron		500.0000	570.1000	ug/L	**14**	10	c+ **
Lead		250.0000	272.0000	ug/L	9	10	
Magnesium		1000.000	1116.000	ug/L	**12**	10	c+ **
Manganese		50.00000	53.70000	ug/L	7	10	
Molybdenum		500.0000	542.0000	ug/L	8	10	
Nickel		250.0000	258.0000	ug/L	3	10	
Selenium		250.0000	261.0000	ug/L	4	10	
Silver		50.00000	52.90000	ug/L	6	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	519.0000	ug/L	4	10	
Vanadium		250.0000	264.0000	ug/L	6	10	
Zinc		50.00000	51.80000	ug/L	4	10	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74505851027
Run Name :
Filename : tr258068
IDF : 1.0
Injected : 16-DEC-2004 09:43
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	741.5000	ug/L	-1	10	
Antimony		750.0000	758.0000	ug/L	1	10	
Arsenic		375.0000	366.0000	ug/L	-2	10	
Barium		750.0000	711.0000	ug/L	-5	10	
Beryllium		75.00000	76.50000	ug/L	2	10	
Cadmium		75.00000	71.90000	ug/L	-4	10	
Calcium		1500.000	1579.000	ug/L	5	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	158.0000	ug/L	5	10	
Iron		750.0000	821.4000	ug/L	10	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1569.000	ug/L	5	10	
Manganese		75.00000	74.80000	ug/L	0	10	
Molybdenum		750.0000	765.0000	ug/L	2	10	
Nickel		375.0000	367.0000	ug/L	-2	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	76.70000	ug/L	2	10	
Thallium		375.0000	368.0000	ug/L	-2	10	
Titanium		750.0000	764.0000	ug/L	2	10	
Vanadium		375.0000	376.0000	ug/L	0	10	
Zinc		75.00000	78.40000	ug/L	5	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74505851039
Run Name :
Filename : tr258081
IDF : 1.0
Injected : 16-DEC-2004 10:53
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	756.9000	ug/L	1	10	
Antimony		750.0000	752.0000	ug/L	0	10	
Arsenic		375.0000	370.0000	ug/L	-1	10	
Barium		750.0000	716.0000	ug/L	-5	10	
Beryllium		75.00000	76.90000	ug/L	3	10	
Cadmium		75.00000	72.90000	ug/L	-3	10	
Calcium		1500.000	1538.000	ug/L	3	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	373.0000	ug/L	-1	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	825.9000	ug/L	10	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1562.000	ug/L	4	10	
Manganese		75.00000	74.90000	ug/L	0	10	
Molybdenum		750.0000	757.0000	ug/L	1	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	369.0000	ug/L	-2	10	
Silver		75.00000	76.30000	ug/L	2	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	767.0000	ug/L	2	10	
Vanadium		375.0000	375.0000	ug/L	0	10	
Zinc		75.00000	76.20000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74505851051
Run Name :
Filename : tr258094
IDF : 1.0
Injected : 16-DEC-2004 11:50
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		500.0000	486.4000	ug/L	-3	10	
Antimony		500.0000	507.0000	ug/L	1	10	
Arsenic		250.0000	247.0000	ug/L	-1	10	
Barium		500.0000	479.0000	ug/L	-4	10	
Beryllium		50.00000	50.30000	ug/L	1	10	
Cadmium		50.00000	48.60000	ug/L	-3	10	
Calcium		1000.000	1010.000	ug/L	1	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	246.0000	ug/L	-2	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	503.1000	ug/L	1	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1022.000	ug/L	2	10	
Manganese		50.00000	48.30000	ug/L	-3	10	
Molybdenum		500.0000	501.0000	ug/L	0	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	258.0000	ug/L	3	10	
Silver		50.00000	50.20000	ug/L	0	10	
Thallium		250.0000	245.0000	ug/L	-2	10	
Titanium		500.0000	494.0000	ug/L	-1	10	
Vanadium		250.0000	246.0000	ug/L	-2	10	
Zinc		50.00000	50.80000	ug/L	2	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74505851063
Run Name :
Filename : tr258107
IDF : 1.0
Injected : 16-DEC-2004 12:46
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	755.0000	ug/L	1	10	
Antimony		750.0000	762.0000	ug/L	2	10	
Arsenic		375.0000	373.0000	ug/L	-1	10	
Barium		750.0000	742.0000	ug/L	-1	10	
Beryllium		75.00000	74.30000	ug/L	-1	10	
Cadmium		75.00000	74.30000	ug/L	-1	10	
Calcium		1500.000	1459.000	ug/L	-3	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	365.0000	ug/L	-3	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	751.1000	ug/L	0	10	
Lead		375.0000	374.0000	ug/L	0	10	
Magnesium		1500.000	1543.000	ug/L	3	10	
Manganese		75.00000	71.60000	ug/L	-5	10	
Molybdenum		750.0000	738.0000	ug/L	-2	10	
Nickel		375.0000	374.0000	ug/L	0	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	75.10000	ug/L	0	10	
Thallium		375.0000	373.0000	ug/L	-1	10	
Titanium		750.0000	756.0000	ug/L	1	10	
Vanadium		375.0000	367.0000	ug/L	-2	10	
Zinc		75.00000	75.30000	ug/L	0	10	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 74505851075
Run Name :
Filename : tr258119
IDF : 1.0
Injected : 16-DEC-2004 13:41
Caltype :

Standards: 04WS2007

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		750.0000	786.8000	ug/L	5	10	
Antimony		750.0000	765.0000	ug/L	2	10	
Arsenic		375.0000	382.0000	ug/L	2	10	
Barium		750.0000	757.0000	ug/L	1	10	
Beryllium		75.00000	74.70000	ug/L	0	10	
Cadmium		75.00000	76.60000	ug/L	2	10	
Calcium		1500.000	1443.000	ug/L	-4	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	368.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	767.3000	ug/L	2	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1557.000	ug/L	4	10	
Manganese		75.00000	70.70000	ug/L	-6	10	
Molybdenum		750.0000	745.0000	ug/L	-1	10	
Nickel		375.0000	382.0000	ug/L	2	10	
Selenium		375.0000	386.0000	ug/L	3	10	
Silver		75.00000	74.50000	ug/L	-1	10	
Thallium		375.0000	378.0000	ug/L	1	10	
Titanium		750.0000	764.0000	ug/L	2	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	76.50000	ug/L	2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74505851003 Run Name: Injected: 16-DEC-2004 07:03
Filename: tr258044 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[12.820]	100.0000	ug/L	<RL
Lead	[1.8400]	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[4.9100]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[3.5400]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: 'MET07 TJA Trace ICP
Seqnum: 74505851016 Run Name: Injected: 16-DEC-2004 08:44
Filename: tr258057 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[29.020]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[27.100]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[10.600]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[10.400]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[8.0300]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74505851028 Run Name: Injected: 16-DEC-2004 09:54
Filename: tr258069 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[2.9100]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[32.480]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	[3.8600]	10.00000	ug/L	<RL
Iron	[23.290]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[7.2900]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74505851040 Run Name: Injected: 16-DEC-2004 10:57
Filename: tr258082 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.2660]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[35.660]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[49.970]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[17.040]	500.0000	ug/L	<RL
Manganese	[0.5360]	10.00000	ug/L	<RL
Molybdenum	[3.5300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[9.1800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74505851052 Run Name: Injected: 16-DEC-2004 11:55
Filename: tr258095 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[4.1300]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.7370]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[24.540]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[21.120]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[10.850]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.1700]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[6.7800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74505851064 Run Name: Injected: 16-DEC-2004 12:51
Filename: tr258108 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[0.6350]	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[26.470]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[15.450]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[21.710]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[7.5500]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[9.5800]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74505851076 Run Name: Injected: 16-DEC-2004 13:45
Filename: tr258120 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	[31.270]	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[20.000]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[36.710]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[2.6300]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	[3.7700]	5.000000	ug/L	<RL
Titanium	[8.0200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07 TJA Trace ICP
Seqnum: 74505851005 Run Name: Injected: 16-DEC-2004 07:26
Filename: tr258046 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[3.9500]	60.00000	ug/L	<RL	
Arsenic	[-2.400]	5.000000	ug/L	<RL	
Barium	[0.0100]	10.00000	ug/L	<RL	
Beryllium	[-0.668]	2.000000	ug/L	<RL	
Cadmium	[1.8600]	5.000000	ug/L	<RL	
Chromium	[2.7000]	10.00000	ug/L	<RL	
Cobalt	[0.3850]	10.00000	ug/L	<RL	
Copper	[-2.600]	10.00000	ug/L	<RL	
Lead	[-0.889]	3.000000	ug/L	<RL	
Manganese	[2.0000]	10.00000	ug/L	<RL	
Molybdenum	[-2.680]	20.00000	ug/L	<RL	
Nickel	[1.9100]	20.00000	ug/L	<RL	
Selenium	[-4.520]	5.000000	ug/L	<RL	
Silver	[-0.040]	5.000000	ug/L	<RL	
Thallium	-8.55000	5.000000	ug/L	<RL	
Titanium	25.00000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-3.230]	10.00000	ug/L	<RL	
Zinc	[1.3800]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	511700	ug/L	102
Calcium	500000	473500	ug/L	95
Iron	200000	183800	ug/L	92
Magnesium	500000	530300	ug/L	106

+=high bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74505851006 Filename : tr258047 Injected : 16-DEC-2004 07:31
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	511100.0	ug/L	2		
Antimony	500.0000	538.0000	ug/L	8	20	
Arsenic	500.0000	523.0000	ug/L	5	20	
Barium	500.0000	483.0000	ug/L	-3	20	
Beryllium	500.0000	515.0000	ug/L	3	20	
Cadmium	1000.000	938.0000	ug/L	-6	20	
Calcium	500000.0	482100.0	ug/L	-4		
Chromium	500.0000	491.0000	ug/L	-2	20	
Cobalt	500.0000	496.0000	ug/L	-1	20	
Copper	500.0000	527.0000	ug/L	5	20	
Iron	200000.0	185900.0	ug/L	-7		
Lead	1000.000	1020.000	ug/L	2	20	
Magnesium	500000.0	532100.0	ug/L	6		
Manganese	500.0000	491.0000	ug/L	-2	20	
Molybdenum	500.0000	513.0000	ug/L	3	20	
Nickel	1000.000	927.0000	ug/L	-7	20	
Selenium	500.0000	535.0000	ug/L	7	20	
Silver	1000.000	962.0000	ug/L	-4	20	
Thallium	500.0000	506.0000	ug/L	1	20	
Titanium	20000.00	21200.00	ug/L	6		
Vanadium	500.0000	498.0000	ug/L	0	20	
Zinc	1000.000	1030.000	ug/L	3	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07 Run Name :
Seqnum : 74505851074 Filename : tr258118 Injected : 16-DEC-2004 13:37
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	485700.0	ug/L	-3		
Antimony	500.0000	537.0000	ug/L	7	20	
Arsenic	500.0000	522.0000	ug/L	4	20	
Barium	500.0000	509.0000	ug/L	2	20	
Beryllium	500.0000	480.0000	ug/L	-4	20	
Cadmium	1000.000	945.0000	ug/L	-6	20	
Calcium	500000.0	428600.0	ug/L	-14		
Chromium	500.0000	482.0000	ug/L	-4	20	
Cobalt	500.0000	474.0000	ug/L	-5	20	
Copper	500.0000	504.0000	ug/L	1	20	
Iron	200000.0	176900.0	ug/L	-12		
Lead	1000.000	971.0000	ug/L	-3	20	
Magnesium	500000.0	511200.0	ug/L	2		
Manganese	500.0000	456.0000	ug/L	-9	20	
Molybdenum	500.0000	495.0000	ug/L	-1	20	
Nickel	1000.000	923.0000	ug/L	-8	20	
Selenium	500.0000	530.0000	ug/L	6	20	
Silver	1000.000	936.0000	ug/L	-6	20	
Thallium	500.0000	511.0000	ug/L	2	20	
Titanium	20000.00	21000.00	ug/L	5		
Vanadium	500.0000	479.0000	ug/L	-4	20	
Zinc	1000.000	1030.000	ug/L	3	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74505851 Instrument: MET07 TJA Trace ICP Begun: 16-DEC-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	tr258042	CS				16-DEC-2004 06:51	1.0	1.0			1	
002	tr258043	ICV				16-DEC-2004 06:59	1.0	1.0			2	
003	tr258044	ICB				16-DEC-2004 07:03	1.0	1.0				
004	tr258045	CRI				16-DEC-2004 07:07	1.0	1.0			3	
005	tr258046	ICSA				16-DEC-2004 07:26	1.0	1.0	1		4	4:MG=530300
006	tr258047	ICSAB				16-DEC-2004 07:31	1.0	1.0			5	5:MG=532100
007	tr258048	BLANK	QC276450	97523	Soil	16-DEC-2004 07:45	1.0	50.0	1			
008	tr258049	BS	QC276451	97523	Soil	16-DEC-2004 07:50	1.0	50.0	4			
009	tr258050	BSD	QC276452	97523	Soil	16-DEC-2004 07:54	1.0	50.0	4			
010	tr258051	MSS	176656-002	97523	Soil	16-DEC-2004 08:00	1.0	53.76	5			3:AL=401200
011	tr258052	SER	QC276455	97523	Soil	16-DEC-2004 08:09	5.0	53.76	2	1		
012	tr258053	MSS	176656-002	97523	Soil	16-DEC-2004 08:16	1.0	53.76	6			3:AL=404400
013	tr258054	MS	QC276453	97523	Soil	16-DEC-2004 08:20	1.0	41.32	2			5:AL=583700
014	tr258055	MSD	QC276454	97523	Soil	16-DEC-2004 08:25	1.0	52.08	2			3:AL=482500
015	tr258056	CCV				16-DEC-2004 08:36	1.0	1.0	3		6	
016	tr258057	CCB				16-DEC-2004 08:44	1.0	1.0				
017	tr258058	PDS	QC276456	97523	Soil	16-DEC-2004 08:55	1.0	53.76			7 8	3:AL=403200
018	tr258059	SAMPLE	176550-001	97523	Soil	16-DEC-2004 08:59	1.0	40.65	1			4:FE=322200
019	tr258060	SAMPLE	176550-002	97523	Soil	16-DEC-2004 09:04	1.0	48.08	1			3:FE=321400
020	tr258061	SAMPLE	176550-003	97523	Soil	16-DEC-2004 09:08	1.0	32.68	2			4:FE=412000
021	tr258062	SAMPLE	176550-001	97523	Soil	16-DEC-2004 09:12	1.0	40.65	1			4:FE=324600
022	tr258063	SAMPLE	176550-002	97523	Soil	16-DEC-2004 09:16	1.0	48.08	1			3:FE=324300
023	tr258064	SAMPLE	176550-003	97523	Soil	16-DEC-2004 09:20	1.0	32.68	1			4:FE=408000
024	tr258065	SAMPLE	176550-004	97523	Soil	16-DEC-2004 09:24	1.0	38.46	2			5:FE=1118000
025	tr258066	SAMPLE	176550-005	97523	Soil	16-DEC-2004 09:28	1.0	48.08	1			3:FE=597700
026	tr258067	SAMPLE	176550-006	97523	Soil	16-DEC-2004 09:32	1.0	50.0	1			3:FE=430100
027	tr258068	CCV				16-DEC-2004 09:43	1.0	1.0			9	
028	tr258069	CCB				16-DEC-2004 09:54	1.0	1.0				
029	tr258070	SAMPLE	176550-007	97523	Soil	16-DEC-2004 10:01	1.0	41.32				3:FE=377300
030	tr258071	SAMPLE	176550-008	97523	Soil	16-DEC-2004 10:05	1.0	43.48				3:FE=326600
031	tr258072	SAMPLE	176550-009	97523	Soil	16-DEC-2004 10:09	1.0	43.86	1			4:FE=488200

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04SS171 8=04SS172 9=04WS2007 10=04SS226 11=04SS365 12=04SS366

Analyst: [illegible] Date: 12/16/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74505851 Instrument: MET07 TJA Trace ICP Begun: 16-DEC-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	tr258073	SAMPLE	176550-010	97523	Soil	16-DEC-2004 10:13	1.0	39.06	1			4:FE=656300
033	tr258074	SAMPLE	176550-008	97523	Soil	16-DEC-2004 10:18	1.0	43.48				3:FE=327200
034	tr258075	SAMPLE	176550-011	97523	Soil	16-DEC-2004 10:23	1.0	40.65	2			4:FE=429500
035	tr258076	SAMPLE	176550-011	97523	Soil	16-DEC-2004 10:28	1.0	40.65	1			4:FE=427800
036	tr258077	SAMPLE	176550-012	97523	Soil	16-DEC-2004 10:33	1.0	47.17	1			4:FE=369200
037	tr258078	SAMPLE	176657-001	97523	Soil	16-DEC-2004 10:37	1.0	38.17				3:FE=343000
038	tr258079	SAMPLE	176657-002	97523	Soil	16-DEC-2004 10:41	1.0	36.23				3:FE=372100
039	tr258081	CCV				16-DEC-2004 10:53	1.0	1.0			9	
040	tr258082	CCB				16-DEC-2004 10:57	1.0	1.0				
041	tr258083	SAMPLE	176673-001	97523	Soil	16-DEC-2004 11:01	1.0	43.86				4:FE=278400
042	tr258084	SAMPLE	176673-002	97523	Soil	16-DEC-2004 11:05	1.0	44.25				4:FE=396500
043	tr258085	SAMPLE	176673-003	97523	Soil	16-DEC-2004 11:09	1.0	41.67				5:FE=328100
044	tr258086	BLANK	QC275111	97191	Filtra	16-DEC-2004 11:17	1.0	1.0	1			
045	tr258087	BS	QC275112	97191	Filtra	16-DEC-2004 11:20	1.0	1.0	1			
046	tr258088	BSD	QC275113	97191	Filtra	16-DEC-2004 11:24	1.0	1.0	1			
047	tr258089	MSS	176407-013	97191	Filtra	16-DEC-2004 11:28	1.0	1.0	1			
048	tr258090	MS	QC275114	97191	Filtra	16-DEC-2004 11:31	1.0	1.0				
049	tr258091	MSD	QC275115	97191	Filtra	16-DEC-2004 11:35	1.0	1.0		1		
050	tr258093	SER	QC275116	97191	Filtra	16-DEC-2004 11:46	5.0	1.0				
051	tr258094	CCV				16-DEC-2004 11:50	1.0	1.0			6	
052	tr258095	CCB				16-DEC-2004 11:55	1.0	1.0				
053	tr258096	PDS	QC276179	97191	Filtra	16-DEC-2004 12:05	1.0	1.0		1	10	
054	tr258098	SAMPLE	176407-001	97191	Filtra	16-DEC-2004 12:10	1.0	1.0	2			2:MG=380600
055	tr258099	SAMPLE	176407-002	97191	Filtra	16-DEC-2004 12:14	1.0	1.0				
056	tr258100	SAMPLE	176407-003	97191	Filtra	16-DEC-2004 12:18	1.0	1.0				
057	tr258101	SAMPLE	176407-004	97191	Filtra	16-DEC-2004 12:21	1.0	1.0				
058	tr258102	SAMPLE	176407-005	97191	Filtra	16-DEC-2004 12:25	1.0	1.0	3			3:MG=2332000
059	tr258103	SAMPLE	176407-006	97191	Filtra	16-DEC-2004 12:29	1.0	1.0				
060	tr258104	SAMPLE	176407-007	97191	Filtra	16-DEC-2004 12:32	1.0	1.0				
061	tr258105	SAMPLE	176407-008	97191	Filtra	16-DEC-2004 12:36	1.0	1.0				
062	tr258106	SAMPLE	176407-009	97191	Filtra	16-DEC-2004 12:39	1.0	1.0	3			3:MG=2034000

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04SS171 8=04SS172 9=04WS2007 10=04SS226 11=04SS365 12=04SS366

Analyst: MeiWu Date: 12/16/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 74505851 Instrument: MET07 TJA Trace ICP Begun: 16-DEC-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
063	tr258107	CCV				16-DEC-2004 12:46	1.0	1.0			9	
064	tr258108	CCB				16-DEC-2004 12:51	1.0	1.0				
065	tr258109	BLANK	QC276501	97534	Filtra	16-DEC-2004 12:58	1.0	1.0	1			
066	tr258110	BS	QC276502	97534	Filtra	16-DEC-2004 13:01	1.0	1.0	1			
067	tr258111	BSD	QC276503	97534	Filtra	16-DEC-2004 13:05	1.0	1.0	1			
068	tr258112	MSS	176668-001	97534	Filtra	16-DEC-2004 13:09	1.0	1.0	3			2:MG=1985000
069	tr258113	MSS	176668-001	97534	Filtra	16-DEC-2004 13:13	1.0	1.0	3			2:MG=1977000
070	tr258114	MS	QC276504	97534	Filtra	16-DEC-2004 13:16	1.0	1.0				2:MG=2039000
071	tr258115	MSD	QC276505	97534	Filtra	16-DEC-2004 13:20	1.0	1.0				2:MG=2037000
072	tr258116	SER	QC276506	97534	Filtra	16-DEC-2004 13:26	5.0	1.0		2		2:MG=342100
073	tr258117	PDS	QC276584	97534	Filtra	16-DEC-2004 13:32	1.0	1.0			11 12	2:MG=2025000
074	tr258118	ICSAB				16-DEC-2004 13:37	1.0	1.0			5	5:MG=511200
075	tr258119	CCV				16-DEC-2004 13:41	1.0	1.0			9	
076	tr258120	CCB				16-DEC-2004 13:45	1.0	1.0				

122

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04SS171 8=04SS172 9=04WS2007 10=04SS226 11=04SS365 12=04SS366

Analyst: Mei Wu Date: 12/16/04

Method: 6010B Standard: blank
Run Time: 12/17/04 11:45:52

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.0003	.0027	.0000	.0004	.0002	.0005	-.0001
SDev	.0006	.0012	.0000	.0000	.0000	.0017	.0009
%RSD	238.2	45.11	.0000	1.359	1.359	360.1	1060.
#1	.0007	.0018	.0000	.0004	.0002	-.0007	-.0007
#2	-.0002	.0035	.0000	.0004	.0002	.0017	.0006

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.0009	.0006	.0007	.0009	.0005	-.0002	.0011
SDev	.0003	.0008	.0005	.0003	.0017	.0003	.0000
%RSD	29.59	141.4	71.72	26.98	360.1	141.4	1.359
#1	.0007	.0000	.0004	.0011	-.0007	-.0004	.0011
#2	.0011	.0011	.0011	.0007	.0017	.0000	.0011

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	-.0004	.0009	.0004	.1784	.0010	-.0007	.0000
SDev	.0005	.0000	.0010	.0066	.0009	.0010	.0000
%RSD	141.4	1.359	278.8	3.703	89.18	141.4	.0000
#1	-.0007	.0009	-.0004	.1737	.0016	-.0015	.0000
#2	.0000	.0009	.0011	.1830	.0004	.0000	.0000

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782
Avge	.0102	.0078	-.0023	.0013	.0000	.0002
SDev	.0082	.0032	.0040	.0003	.0005	.0003
%RSD	80.63	41.65	176.1	21.53	14720.	141.4
#1	.0044	.0055	-.0051	.0011	-.0004	.0000
#2	.0160	.0101	.0006	.0015	.0004	.0004

Method: 6010B Standard: cs hi
Run Time: 12/17/04 11:50:52

Elem	Sb2068	As1890	Ba4934	Be3130	Cd2288	Cr2677	Co2286
Avge	.3565	.7087	7.104	.2175	2.420	.7834	.5698
SDev	.0026	.0176	.081	.0022	.024	.0087	.0056
%RSD	.7223	2.479	1.138	.9899	1.008	1.105	.9749
#1	.3547	.6963	7.046	.2160	2.403	.7773	.5659
#2	.3583	.7211	7.161	.2190	2.438	.7896	.5738

Elem	Cu3247	Pb2203	Mo2020	Ni2316	Se1960	Ag3280	Tl1908
Avge	.7393	.2179	1.559	1.363	.3505	.1164	.3692
SDev	.0116	.0002	.032	.019	.0048	.0009	.0051
%RSD	1.573	.1080	2.083	1.397	1.379	.7687	1.369
#1	.7311	.2178	1.536	1.349	.3471	.1158	.3656
#2	.7475	.2181	1.582	1.376	.3539	.1171	.3728

Elem	V_2924	Zn2138	Al3961	Ca3179	Fe2599	Mg2790	Mn2576
Avge	.5371	1.297	1.986	33.54	2.792	5.088	1.046
SDev	.0061	.008	.012	.26	.026	.025	.010
%RSD	1.128	.6118	.6262	.7642	.9353	.4993	.9307
#1	.5328	1.292	1.977	33.36	2.773	5.070	1.039
#2	.5413	1.303	1.995	33.72	2.810	5.106	1.053

Elem	K_7664	Na5889	Sn1899	B_2496	Ti3349	P_1782
Avge	.4538	4.217	1.673	1.162	6.342	.0023
SDev	.0044	.000	.007	.008	.069	.0008
%RSD	.9697	.0060	.4278	.6964	1.082	34.08
#1	.4507	4.217	1.668	1.156	6.294	.0029
#2	.4569	4.217	1.678	1.168	6.391	.0018

Standardization Report 12/17/04 11:53:16 AM page 1

Method: 6010B Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.838	Multiple	Standards	28208.6	-7.69385	12/17/04 11:50:52
As1890	189.042	Multiple	Standards	14163.9	-38.0649	12/17/04 11:50:52
Ba4934	493.409	Multiple	Standards	2815.49	-.000000	12/17/04 11:50:52
Be3130	313.042	Multiple	Standards	2383.66	-.880960	12/17/04 11:50:52
Cd2288	228.802	Multiple	Standards	4133.54	-.763844	12/17/04 11:50:52
Cr2677	267.716	Multiple	Standards	2550.94	-1.20792	12/17/04 11:50:52
Co2286	228.616	Multiple	Standards	8854.73	.763113	12/17/04 11:50:52
Cu3247	324.754	Multiple	Standards	3386.98	-3.13544	12/17/04 11:50:52
Pb2203	220.353	Multiple	Standards	46107.8	-25.8066	12/17/04 11:50:52
Mo2020	202.030	Multiple	Standards	6417.96	-4.76673	12/17/04 11:50:52
Ni2316	231.604	Multiple	Standards	3670.67	-3.38503	12/17/04 11:50:52
Se1960	196.026	Multiple	Standards	28538.4	-13.5135	12/17/04 11:50:52
Ag3280	328.068	Multiple	Standards	8389.09	1.53534	12/17/04 11:50:52
Tl1908	190.864	Multiple	Standards	27178.2	-30.1338	12/17/04 11:50:52
V_2924	292.402	Multiple	Standards	9139.64	3.34540	12/17/04 11:50:52
Zn2138	213.856	Multiple	Standards	3843.27	-3.55102	12/17/04 11:50:52
Al3961	396.153	Multiple	Standards	10131.7	-3.81647	12/17/04 11:50:52
Ca3179	317.933	Multiple	Standards	1498.58	-267.275	12/17/04 11:50:52
Fe2599	259.940	Multiple	Standards	3579.50	-3.61579	12/17/04 11:50:52
Mg2790	279.079	Multiple	Standards	9774.08	7.15525	12/17/04 11:50:52
Mn2576	257.610	Multiple	Standards	4779.33	.000000	12/17/04 11:50:52
K_7664	766.491	Multiple	Standards	112727.	-1151.91	12/17/04 11:50:52
Na5889	588.995	Multiple	Standards	11879.6	-92.4536	12/17/04 11:50:52
Sn1899	189.989	cs hi	blank	5987.36	13.6654	12/17/04 11:50:52
B_2496	249.678	cs hi	blank	8614.48	-11.1585	12/17/04 11:50:52
Ti3349	334.941	cs hi	blank	1576.83	-.005599	12/17/04 11:50:52
P_1782	178.287	cs hi	blank	4627390.	-863.319	12/17/04 11:50:52
S_1820	182.040	STD4	STD1-Blank	118.671	-8.71043	12/17/04 11:50:52
Si2881	288.158	STD4	STD1-Blank	1489820.	-417002.	12/17/04 11:50:52

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14507594001
Run Name :
Filename : icp181431
Injected : 17-DEC-2004 11:54
Caltype :

Standards: 04WS2322

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	20000.00	20280.00	ug/L	1	5	
Antimony	10000.00	10250.00	ug/L	3	5	
Arsenic	10000.00	10250.00	ug/L	3	5	
Barium	20000.00	20550.00	ug/L	3	5	
Beryllium	500.0000	516.8000	ug/L	3	5	
Boron	10000.00	10250.00	ug/L	3	5	
Cadmium	10000.00	10170.00	ug/L	2	5	
Calcium	50000.00	51340.00	ug/L	3	5	
Chromium	2000.000	2049.000	ug/L	2	5	
Cobalt	5000.000	5158.000	ug/L	3	5	
Copper	2500.000	2575.000	ug/L	3	5	
Iron	10000.00	10500.00	ug/L	5	5	
Lead	10000.00	10150.00	ug/L	2	5	
Magnesium	50000.00	50730.00	ug/L	1	5	
Manganese	5000.000	5137.000	ug/L	3	5	
Molybdenum	10000.00	10370.00	ug/L	4	5	
Nickel	5000.000	5175.000	ug/L	4	5	
Potassium	50000.00	51370.00	ug/L	3	5	
Selenium	10000.00	10290.00	ug/L	3	5	
Silver	1000.000	1022.000	ug/L	2	5	
Sodium	50000.00	50490.00	ug/L	1	5	
Thallium	10000.00	10310.00	ug/L	3	5	
Tin	10000.00	10230.00	ug/L	2	5	
Titanium	10000.00	10280.00	ug/L	3	5	
Vanadium	5000.000	5142.000	ug/L	3	5	
Zinc	5000.000	5109.000	ug/L	2	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET01
Seqnum : 14507594002

Run Name :
Filename : icp181432

Injected : 17-DEC-2004 12:01
Caltype :

Standards: 04WS2306

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	1000.000	1023.000	ug/L	2	10	
Antimony	2000.000	1998.000	ug/L	0	10	
Arsenic	2000.000	2002.000	ug/L	0	10	
Barium	1000.000	1004.000	ug/L	0	10	
Beryllium	2000.000	1971.000	ug/L	-1	10	
Boron	1000.000	993.6000	ug/L	-1	10	
Cadmium	2000.000	2061.000	ug/L	3	10	
Calcium	2000.000	2055.000	ug/L	3	10	
Chromium	2000.000	2050.000	ug/L	3	10	
Cobalt	2000.000	2065.000	ug/L	3	10	
Copper	2000.000	2051.000	ug/L	3	10	
Iron	2000.000	2090.000	ug/L	5	10	
Lead	2000.000	2087.000	ug/L	4	10	
Magnesium	2000.000	2044.000	ug/L	2	10	
Manganese	2000.000	2061.000	ug/L	3	10	
Molybdenum	2000.000	2056.000	ug/L	3	10	
Nickel	2000.000	2049.000	ug/L	2	10	
Potassium	10000.00	10510.00	ug/L	5	10	
Selenium	2000.000	1975.000	ug/L	-1	10	
Silver	1000.000	1022.000	ug/L	2	10	
Sodium	10000.00	10120.00	ug/L	1	10	
Thallium	2000.000	2076.000	ug/L	4	10	
Tin	2000.000	2027.000	ug/L	1	10	
Titanium	2000.000	2008.000	ug/L	0	10	
Vanadium	2000.000	2003.000	ug/L	0	10	
Zinc	2000.000	2029.000	ug/L	1	10	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14507594004 Filename : icp181434 Injected : 17-DEC-2004 12:12
Caltype :

Standards: 04WS2390

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100.0000	103.0000	ug/L	3	50	
Antimony	60.00000	40.76000	ug/L	-32	50	
Arsenic	500.0000	501.8000	ug/L	0	50	
Barium	10.00000	11.24000	ug/L	12	50	
Beryllium	2.000000	1.502000	ug/L	-25	50	
Boron	100.0000	116.6000	ug/L	17	50	
Cadmium	5.000000	5.767000	ug/L	15	50	
Calcium	500.0000	519.6000	ug/L	4	50	
Chromium	10.00000	7.425000	ug/L	-26	50	
Cobalt	20.00000	21.63000	ug/L	8	50	
Copper	10.00000	8.991000	ug/L	-10	50	
Iron	100.0000	109.1000	ug/L	9	50	
Lead	300.0000	260.6000	ug/L	-13	50	
Magnesium	500.0000	503.8000	ug/L	1	50	
Manganese	10.00000	9.765000	ug/L	-2	50	
Molybdenum	20.00000	22.84000	ug/L	14	50	
Nickel	20.00000	20.71000	ug/L	4	50	
Phosphorus	100.0000	2821.000	ug/L	**2721**	50	cri+ ***
Potassium	500.0000	712.4000	ug/L	42	50	
Selenium	500.0000	484.0000	ug/L	-3	50	
Silver	5.000000	2.943000	ug/L	-41	50	
Sodium	500.0000	524.6000	ug/L	5	50	
Thallium	500.0000	473.1000	ug/L	-5	50	
Tin	40.00000	46.34000	ug/L	16	50	
Titanium	10.00000	10.31000	ug/L	3	50	
Vanadium	10.00000	12.68000	ug/L	27	50	
Zinc	20.00000	20.80000	ug/L	4	50	

+=high bias
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET01 Run Name : IDF : 1.0
Seqnum : 14507594015 Filename : icp181445 Injected : 17-DEC-2004 13:09
Caltype :

Standards: 04WS2307

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum		1000.000	1028.000	ug/L	3	10	
Antimony		2000.000	1946.000	ug/L	-3	10	
Arsenic		2000.000	2051.000	ug/L	3	10	
Barium		1000.000	1002.000	ug/L	0	10	
Beryllium		2000.000	2025.000	ug/L	1	10	
Boron		1000.000	1000.000	ug/L	0	10	
Cadmium		2000.000	2106.000	ug/L	5	10	
Calcium		2000.000	2127.000	ug/L	6	10	
Chromium		2000.000	2049.000	ug/L	2	10	
Cobalt		2000.000	2075.000	ug/L	4	10	
Copper		2000.000	2060.000	ug/L	3	10	
Iron		2000.000	2042.000	ug/L	2	10	
Lead		2000.000	2087.000	ug/L	4	10	
Magnesium		2000.000	2049.000	ug/L	2	10	
Manganese		2000.000	2082.000	ug/L	4	10	
Molybdenum		2000.000	2057.000	ug/L	3	10	
Nickel		2000.000	2116.000	ug/L	6	10	
Potassium		10000.00	9820.000	ug/L	-2	10	
Selenium		2000.000	1956.000	ug/L	-2	10	
Silver		1000.000	1022.000	ug/L	2	10	
Sodium		10000.00	10210.00	ug/L	2	10	
Thallium		2000.000	2092.000	ug/L	5	10	
Tin		2000.000	2077.000	ug/L	4	10	
Titanium		2000.000	2004.000	ug/L	0	10	
Vanadium		2000.000	2029.000	ug/L	1	10	
Zinc		2000.000	2090.000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14507594003 Run Name: Injected: 17-DEC-2004 12:09
Filename: icp181433 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	500.0000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Boron	ND	100.0000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	20.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	300.0000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Phosphorus	ND	100.0000	ug/L	<RL
Potassium	ND	500.0000	ug/L	<RL
Selenium	ND	500.0000	ug/L	<RL
Silicon	ND	200.0000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Sodium	ND	500.0000	ug/L	<RL
Sulfide	ND	1.000000	mg/L	<RL
Thallium	ND	500.0000	ug/L	<RL
Tin	ND	40.00000	ug/L	<RL
Titanium	[2.1320]	10.00000	ug/L	<RL
Vanadium	[2.4580]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: 'MET01 TJA ICP
Seqnum: 14507594016 Run Name: Injected: 17-DEC-2004 13:12
Filename: icp181446 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	500.0000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	[1.4220]	2.000000	ug/L	<RL
Boron	ND	100.0000	ug/L	<RL
Cadmium	[2.3720]	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	20.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	300.0000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Phosphorus	ND	100.0000	ug/L	<RL
Potassium	ND	500.0000	ug/L	<RL
Selenium	ND	500.0000	ug/L	<RL
Silicon	ND	200.0000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Sodium	ND	500.0000	ug/L	<RL
Sulfide	ND	1.000000	mg/L	<RL
Thallium	ND	500.0000	ug/L	<RL
Tin	[22.220]	40.00000	ug/L	<RL
Titanium	[2.1970]	10.00000	ug/L	<RL
Vanadium	[4.6420]	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET01 TJA ICP
Seqnum: 14507594005 Run Name: Injected: 17-DEC-2004 12:18
Filename: icp181435 Run Type: ICSA

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[29.690]	60.00000	ug/L	<RL	
Arsenic	[106.80]	500.0000	ug/L	<RL	
Barium	[0.4667]	10.00000	ug/L	<RL	
Beryllium	[-0.400]	2.000000	ug/L	<RL	
Boron	[-10.56]	100.0000	ug/L	<RL	
Cadmium	[-4.081]	5.000000	ug/L	<RL	
Chromium	[-4.663]	10.00000	ug/L	<RL	
Cobalt	[-6.553]	20.00000	ug/L	<RL	
Copper	[-1.021]	10.00000	ug/L	<RL	
Lead	[122.60]	300.0000	ug/L	<RL	
Manganese	[2.5000]	10.00000	ug/L	<RL	
Molybdenum	[13.040]	20.00000	ug/L	<RL	
Nickel	[-13.89]	20.00000	ug/L	<RL	
Phosphorus	9901.000	100.0000	ug/L	<RL	a+ ***
Potassium	-702.700	500.0000	ug/L	<RL	
Selenium	[133.60]	500.0000	ug/L	<RL	
Silicon	-31750.0	200.0000	ug/L	<RL	a- ***
Silver	[-4.935]	5.000000	ug/L	<RL	
Sodium	[-194.7]	500.0000	ug/L	<RL	
Sulfide	11.87000	1.000000	mg/L	<RL	a+ ***
Thallium	[78.770]	500.0000	ug/L	<RL	
Tin	[1.6010]	40.00000	ug/L	<RL	
Titanium	[2.6030]	10.00000	ug/L	<RL	
Vanadium	[-5.495]	10.00000	ug/L	<RL	
Zinc	[-5.737]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	559900	ug/L	112
Calcium	500000	1930000	ug/L	386
Iron	200000	187900	ug/L	94
Magnesium	500000	512600	ug/L	103

+=high bias -=low bias a=ICSA
Page 1 of 1

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14507594006 Filename : icp181436 Injected : 17-DEC-2004 12:20
Caltype :

Standards: 04WS2265

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	553800.0	ug/L	11		
Antimony	2000.000	1926.000	ug/L	-4	20	
Arsenic	2000.000	1995.000	ug/L	0	20	
Barium	500.0000	478.6000	ug/L	-4	20	
Beryllium	500.0000	472.5000	ug/L	-6	20	
Cadmium	1000.000	958.7000	ug/L	-4	20	
Calcium	500000.0	1957000	ug/L	291		
Chromium	500.0000	457.1000	ug/L	-9	20	
Cobalt	500.0000	456.0000	ug/L	-9	20	
Copper	500.0000	490.2000	ug/L	-2	20	
Iron	200000.0	189200.0	ug/L	-5		
Lead	1000.000	1150.000	ug/L	15	20	
Magnesium	500000.0	510000.0	ug/L	2		
Manganese	500.0000	467.5000	ug/L	-7	20	
Molybdenum	500.0000	469.9000	ug/L	-6	20	
Nickel	1000.000	921.9000	ug/L	-8	20	
Selenium	2000.000	2100.000	ug/L	5	20	
Silver	1000.000	966.5000	ug/L	-3	20	
Thallium	2000.000	1964.000	ug/L	-2	20	
Titanium	2000.000	1936.000	ug/L	-3	20	
Vanadium	500.0000	457.1000	ug/L	-9	20	
Zinc	1000.000	963.8000	ug/L	-4	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET01 Run Name :
Seqnum : 14507594014 Filename : icp181444 Injected : 17-DEC-2004 13:03
Caltype :

Standards: 04WS2265

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	556800.0	ug/L	11		
Antimony	2000.000	2002.000	ug/L	0	20	
Arsenic	2000.000	2091.000	ug/L	5	20	
Barium	500.0000	482.4000	ug/L	-4	20	
Beryllium	500.0000	483.3000	ug/L	-3	20	
Cadmium	1000.000	1018.000	ug/L	2	20	
Calcium	500000.0	2004000	ug/L	301		
Chromium	500.0000	468.8000	ug/L	-6	20	
Cobalt	500.0000	471.1000	ug/L	-6	20	
Copper	500.0000	491.0000	ug/L	-2	20	
Iron	200000.0	190800.0	ug/L	-5		
Lead	1000.000	1186.000	ug/L	19	20	
Magnesium	500000.0	518500.0	ug/L	4		
Manganese	500.0000	480.6000	ug/L	-4	20	
Molybdenum	500.0000	470.5000	ug/L	-6	20	
Nickel	1000.000	948.6000	ug/L	-5	20	
Selenium	2000.000	2079.000	ug/L	4	20	
Silver	1000.000	997.8000	ug/L	0	20	
Thallium	2000.000	2073.000	ug/L	4	20	
Titanium	2000.000	1954.000	ug/L	-2	20	
Vanadium	500.0000	476.4000	ug/L	-5	20	
Zinc	1000.000	1010.000	ug/L	1	20	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 14507594 Instrument: MET01 TJA ICP Begun: 17-DEC-2004
Analytical Method: EPA 6010B SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	icp18143	CS				17-DEC-2004 11:54	1.0	1.0			1	1:SI=544600
002	icp18143	ICV				17-DEC-2004 12:01	1.0	1.0			2	
003	icp18143	ICB				17-DEC-2004 12:09	1.0	1.0				
004	icp18143	CRI				17-DEC-2004 12:12	1.0	1.0	1		3	
005	icp18143	ICSA				17-DEC-2004 12:18	1.0	1.0	3		4	5:CA=1930000
006	icp18143	ICSAB				17-DEC-2004 12:20	1.0	1.0			5	5:CA=1957000
007	icp18143	BLANK	QC276450	97523	Soil	17-DEC-2004 12:32	1.0	50.0	3			
008	icp18143	BS	QC276451	97523	Soil	17-DEC-2004 12:35	1.0	50.0				
009	icp18143	BSD	QC276452	97523	Soil	17-DEC-2004 12:40	1.0	50.0				
010	icp18144	MSS	176656-002	97523	Soil	17-DEC-2004 12:45	5.0	53.76	3			
011	icp18144	SER	QC276455	97523	Soil	17-DEC-2004 12:47	25.0	53.76	1			
012	icp18144	MS	QC276453	97523	Soil	17-DEC-2004 12:53	5.0	41.32	2	1		
013	icp18144	MSD	QC276454	97523	Soil	17-DEC-2004 12:55	5.0	52.08	1	2		
014	icp18144	ICSAB				17-DEC-2004 13:03	1.0	1.0			5	5:CA=2004000
015	icp18144	CCV				17-DEC-2004 13:09	1.0	1.0			6	
016	icp18144	CCB				17-DEC-2004 13:12	1.0	1.0				

Stds used: 1=04WS2322 2=04WS2306 3=04WS2390 4=04WS2355 5=04WS2265 6=04WS2307

Analyst: _____ Date: 12/17/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176656 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	HG	PB	MN	MO	NI	SE	AG	TL	VI	ZN
176656-002	MET07	12/16/04 08:00	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
176656-002	MET07	12/16/04 08:16	1.0																			
176656-002	MET04	12/16/04 15:16	1.0										+									
176656-002	MET01	12/17/04 12:45	5.0									+										
QC276450	MET07	12/16/04 07:45	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC276450	MET01	12/16/04 14:47	1.0																			
QC276450	MET01	12/17/04 12:32	1.0																			
QC276451	MET07	12/16/04 07:50	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276451	MET01	12/17/04 12:35	1.0									+										
QC276452	MET07	12/16/04 07:54	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276452	MET01	12/17/04 12:40	1.0									+										
QC276453	MET07	12/16/04 08:20	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276453	MET01	12/17/04 12:53	5.0									+										
QC276454	MET07	12/16/04 08:25	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276454	MET01	12/17/04 12:55	5.0									+										
QC276455	MET07	12/16/04 08:09	5.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276455	MET01	12/17/04 12:47	25.0									+										
QC276456	MET07	12/16/04 08:55	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276490	MET04	12/16/04 15:10	1.0										+									
QC276491	MET04	12/16/04 15:12	1.0										+									
QC276492	MET04	12/16/04 15:14	1.0										+									
QC276493	MET04	12/16/04 15:21	1.0										+									
QC276494	MET04	12/16/04 15:28	1.0										+									
QC276577	MET04	12/16/04 15:18	5.0										+									

Curtis & Tompkins Laboratories **Sample Preparation Summary** **16-DEC-2004 06:30**

Batch Number : 97523
Date Extracted: 16-DEC-2004
Extracted by : Victor Vergara
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176550-001			Blasland, Bouck & Lee	Soil	1.23	g	50	40.650407	1					PP13/ICAP		
176550-002			Blasland, Bouck & Lee	Soil	1.04	g	50	48.076923	1					PP13/ICAP		
176550-003			Blasland, Bouck & Lee	Soil	1.53	g	50	32.679739	1					PP13/ICAP		
176550-004			Blasland, Bouck & Lee	Soil	1.3	g	50	38.461538	1					PP13/ICAP		
176550-005			Blasland, Bouck & Lee	Soil	1.04	g	50	48.076923	1					PP13/ICAP		
176550-006			Blasland, Bouck & Lee	Soil	1	g	50	50.000000	1					PP13/ICAP		
176550-007			Blasland, Bouck & Lee	Soil	1.21	g	50	41.322314	1					PP13/ICAP		
176550-008			Blasland, Bouck & Lee	Soil	1.15	g	50	43.478261	1					PP13/ICAP		
176550-009			Blasland, Bouck & Lee	Soil	1.14	g	50	43.859649	1					PP13/ICAP		
176550-010			Blasland, Bouck & Lee	Soil	1.28	g	50	39.062500	1					PP13/ICAP		
176550-011			Blasland, Bouck & Lee	Soil	1.23	g	50	40.650407	1					PP13/ICAP		
176550-012			Blasland, Bouck & Lee	Soil	1.06	g	50	47.169811	1					PP13/ICAP		
176650-001			ConocoPhillips Company	Miscell.	1.07	g	50	46.728972	1					V		
176650-002			ConocoPhillips Company	Miscell.	1.39	g	50	35.971223	1					V		
176656-002			Treadwell & Rollo	Soil	.93	g	50	53.763441	1					TAL/ICP		mss
176657-001			Twining Laboratories, Inc.	Soil	1.31	g	50	38.167939	1					T26/ICP		
176657-002			Twining Laboratories, Inc.	Soil	1.38	g	50	36.231884	1					T26/ICP		
176673-001			Weiss Associates	Soil	1.14	g	50	43.859649	1					AS, CR, MN		
176673-002			Weiss Associates	Soil	1.13	g	50	44.247788	1					AS, CR, MN		
176673-003			Weiss Associates	Soil	1.2	g	50	41.666667	1					AS, CR, MN		
QC276450	BLANK			Soil	1	g	50	50.000000	1					ICAP		
QC276451	BS			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC276452	BSD			Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC276453	MS	of 176656-002		Soil	1.21	g	50	41.322314	1		.5	.5		ICAP		
QC276454	MSD	of 176656-002		Soil	.96	g	50	52.083333	1		.5	.5		ICAP		
QC276455	SER	of 176656-002		Soil	.93	g	50	53.763441	1					ICAP		
QC276456	PDS	of 176656-002		Soil	.93	g	50	53.763441	1					ICAP		

Prep Chemist: _____ Reviewed By: _____ Date: 12/16/04

Relinquished By: _____ Received By: _____ Date: 12/16/04

Soil Digestion for ICP & ICP-MS Curtis & Tompkins, Ltd.

LIMS Batch #: 97523
Date Digested: 12/15/04
Digested by: VV

Digestion Method
☒ EPA 3050b
☐ _____

BK 2025
Page 76

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BKQC 276450	Ø	500	y	
* BS 276451				
* BSD 276452				
* 176656-002 MS A	1.21			
* 002MSD	0.96			
176550-001 A	1.23			
- 002	1.04			
- 003	1.53			
- 004	1.30			
- 005	1.04			
- 006	1.00			
- 007	1.21			
- 008	1.15			
- 009	1.14			
- 010	1.28			
- 011	1.23			
- 012	1.06			
176650-001	1.07			comp 3 jars
- 002	1.39			
176656-002 A	0.93			MSS
176657-001 A	1.31			
- 002	1.38			
176673-001 B	1.14			
- 002 A	1.13			
- 003	1.20			

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90 - 95 degrees C)	95°C	VV 12/16/04
0.5 mL of spike solution was added to all spikes	045517 1*	
	045517 2*	
1:1 HNO3	A40031-120604	
concentrated HNO3	A40031- JTBaker	
3mL 30% hydrogen peroxide	441384129-VWR	
concentrated HCl	A33046- JTBaker	
☒ filtered thru' Whatman # 541	E1566057	

12/16/04
Extraction Chemist / Date

Continued from page Ø
Continued on page Ø

12/16/04
Reviewed by / Date

REPORTING SUMMARY FOR 176656 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	SB	AS	BA	BE	CD	CR	CO	CU	FE	HG	PB	MN	MO	NI	SE	AG	TL	V	ZN
176656-002	MET07	12/16/04 08:00	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
176656-002	MET07	12/16/04 08:16	1.0																			
176656-002	MET04	12/16/04 15:16	1.0										+									
176656-002	MET01	12/17/04 12:45	5.0									+										
QC276450	MET07	12/16/04 07:45	1.0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+
QC276450	MET01	12/16/04 14:47	1.0																			
QC276450	MET01	12/17/04 12:32	1.0																			
QC276451	MET07	12/16/04 07:50	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276451	MET01	12/17/04 12:35	1.0									+										
QC276452	MET07	12/16/04 07:54	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276452	MET01	12/17/04 12:40	1.0									+										
QC276453	MET07	12/16/04 08:20	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276453	MET01	12/17/04 12:53	5.0									+										
QC276454	MET07	12/16/04 08:25	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276454	MET01	12/17/04 12:55	5.0									+										
QC276455	MET07	12/16/04 08:09	5.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276455	MET01	12/17/04 12:47	25.0									+										
QC276456	MET07	12/16/04 08:55	1.0	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+
QC276490	MET04	12/16/04 15:10	1.0										+									
QC276491	MET04	12/16/04 15:12	1.0										+									
QC276492	MET04	12/16/04 15:14	1.0										+									
QC276493	MET04	12/16/04 15:21	1.0										+									
QC276494	MET04	12/16/04 15:28	1.0										+									
QC276577	MET04	12/16/04 15:18	5.0										+									

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

pH

Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 9045C
Analyte:	pH	Diln Fac:	1.000
Field ID:	BB3-CLLAB	Batch#:	97570
Lab ID:	176656-002	Sampled:	12/15/04
Matrix:	Soil	Received:	12/15/04
Units:	SU	Analyzed:	12/16/04

Result	RL
7.6	1.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

pH			
Lab #:	176656	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.12	Analysis:	EPA 9045C
Analyte:	pH	Units:	SU
Field ID:	BB3-CLLAB	Diln Fac:	1.000
Type:	SDUP	Batch#:	97570
MSS Lab ID:	176656-002	Sampled:	12/15/04
Lab ID:	QC276633	Received:	12/15/04
Matrix:	Soil	Analyzed:	12/16/04

MSS Result	Result	RL	RPD	Lim
7.640	7.670	1.0	0	20

RL= Reporting Limit
RPD= Relative Percent Difference

LIMS Batch #: 97570 Date: 12-16-04 Benchbook#: BK2001
Matrix: Soil Time: 14:00 Page: 97

Method (check one): ☐ Water (EPA 9040b/150.1) ☑ Soil (EPA 9045c)

Cal Std-1 ph: 4 SS#: 045598 Slope: 99.0
Cal Std-2 ph: 7 SS#: 0455344 (slope limits: 92 - 102)
Cal Std-3 ph: 10 SS#: 0455382

Run	Sample # / Letter	pH (S.U.)	2nd Reading* (water only)	*Comments
1	ICV	7.06		ICV / CCV = 0455148
	176497-015A	8.46		
	176656-002	7.64		
	Solup -002	7.67		RPD = 0.39%
5	CCV	7.06		
10				
15				
20				
25				

* 2nd aliquot must be within 0.1 SU

RSwitta 12-16-04
Analyst / Date

Dm 12-19-04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97570
Date Started: 16-DEC-2004
Batched by : Radia Shiffa

Analysis : PH
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
176497-015			Espana Geotechnica	Soil	PH	17-DEC-2004
176656-002			Treadwell & Rollo	Soil	PH	17-DEC-2004
QC276633	SDUP	of 176656-002		Soil	PH	

MOISTURE DATA

Percent Moisture Summary Report

Batch: 97561
Date: 12/17/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176614-001	15.2534	22.5803	21.2015	81	19
176656-001	15.1907	22.4506	22.1253	96	4
176656-002	15.4257	22.7079	21.5718	84	16
176670-001	15.3079	22.0765	20.9038	83	17
176670-002	15.4465	22.1672	21.1888	85	15
176670-003	15.3198	22.4333	21.5361	87	13
176670-004	15.4191	22.4882	21.4347	85	15
176670-005	14.8944	22.3583	21.6425	90	10
176670-006	15.4656	22.1637	21.2310	86	14
176678-021	15.0578	22.3312	21.1336	84	16
176678-022	15.2755	22.4453	21.2982	84	16
176678-023	15.2730	22.9150	21.4945	81	19
176678-024	15.4408	22.2237	20.8708	80	20
176678-025	15.5295	22.3640	21.3818	86	14
176678-027	15.3781	22.5522	21.7718	89	11
176678-028	15.4966	22.4053	21.1672	82	18
176678-029	15.0621	22.5006	20.9701	79	21
176678-030	15.1100	22.2714	20.9967	82	18
176679-001	15.0721	22.6574	17.9479	38	62
176680-002	15.4331	22.1370	19.3128	58	42
QC276610	15.5160	22.4080	22.1219	96	4
of 176656-001			RPD:	0.3%	7.6%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97561
Date Started: 16-DEC-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type		Client	Matrix	Analyses	Due Date
176614-001			URS Corporation	Soil	MOISTURE	27-DEC-2004
176656-001			Treadwell & Rollo	Soil	MOISTURE	17-DEC-2004
176656-002			Treadwell & Rollo	Soil	MOISTURE	17-DEC-2004
176670-001			URS Corporation	Soil	MOISTURE	21-DEC-2004
176670-002			URS Corporation	Soil	MOISTURE	21-DEC-2004
176670-003			URS Corporation	Soil	MOISTURE	21-DEC-2004
176670-004			URS Corporation	Soil	MOISTURE	21-DEC-2004
176670-005			URS Corporation	Soil	MOISTURE	21-DEC-2004
176670-006			URS Corporation	Soil	MOISTURE	21-DEC-2004
176678-021			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-022			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-023			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-024			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-025			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-027			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-028			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-029			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176678-030			Tan Phung Associat	Soil	MOISTURE	20-DEC-2004
176679-001			Montezuma Wetlands	Soil	MOISTURE	17-DEC-2004
176680-002			Montezuma Wetlands	Soil	MOISTURE	17-DEC-2004
QC276610	SDUP	of 176656-001		Soil	MOISTURE	

12/16/04

975611

Sample	B.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	31	15.2567	—	15.2567	
176678- 21	A	9E1	15.0578	22.3312	21.1336	
22		DD	15.2755	22.4453	21.2982	
23		A	15.2738	22.9150	21.4945	
24		106	15.4408	22.2237	20.8708	
25		18	15.5295	22.3640	21.3818	
27		3B1	15.3781	22.5522	21.7718	
28		HDD2	15.4966	22.4053	21.1472	
29		104	15.0621	22.5806	20.9701	
30		71	15.1100	22.2714	20.9967	
176656- 1		35A	15.1907	22.4506	22.1253	
DUP 1		21	15.5160	22.4080	22.1219	
2		32	15.4257	22.7079	21.5718	
176679- 1	A-D	F	15.0721	22.6574	17.9479	COMP. A-D
176680 2	A-D	3	15.4331	22.1370	19.3128	COMP. A-D
176670 1	5A	T	14.8944	22.3583	21.6425	
2		101	15.4465	22.1672	21.1886	
3		000	15.3198	22.4333	21.5361	
4		46	15.4191	22.4882	21.4347	
5		20	15.3079	22.0765	20.9038	
6		8	15.4656	22.1637	21.2310	
176614- 1	B	26	15.2534	22.5803	21.2015	

OVEN TEMP: 103°C
TIME IN: 4:20 P.M.
TIME OUT: 8:35 A.M. ON: 12-17-04

Continued on Page 1

Read and Understood By

Signed: D. Mc[illegible] Date: 12-16-04 Signed: [illegible] Date: [illegible]

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 /

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RSM		103°C	12-2-04	RSM
103°C	11-2-04	RSM		104°C	12-3-04	RSM
105°C	11-3-04	RSM		104°C	12-6-04	RSM
104°C	11-4-04	RSM		104°C	12-7-04	RSM
105°C	11-5-04	RSM		103°C	12-8-04	RSM
103°C	11-8-04	RSM		104°C	12-9-04	RSM
104	~~11-9-04~~	RSM		105°C	12-10-04	RSM
105°C	11-10-04	RSM		103°C	12-13-04	RSM
105°C	11-11-04	RSM		105°C	12-14-04	RSM
105°C	11-12-04	RSM		104°C	12-15-04	RSM
105°C	11-15-04	RSM		103°C	12-16-04	RSM
105°C	11-16-04	RSM		104°C	12-17-04	RSM
105°C	11-17-04	RSM				
104°C	11-18-04	RSM				
104°C	11-19-04	RSM				
103°C	11-22-04	RSM				
103°C	11-23-04	RSM				
103°C	11-24-04	RSM				
104°C	11-29-04	RSS				
103°C	11-30-04	RSM				
103°C	12-1-04	RSM				

000063

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RSM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RSM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RSM	35298
11-29-04	0.2000	0.9999	10.0000	50.0003	PPS	35298
11-30-04	0.2001	1.0000	10.0000	50.0002	RSM	35298
12-1-04	0.1999	1.0001	10.0000	50.0004	RSM	35298
12-2-04	0.2000	1.0000	10.0001	50.0003	RSM	35298
12-3-04	0.2000	1.0001	10.0000	50.0003	RSM	35298
12-6-04	0.2001	1.0000	10.0001	50.0002	RSM	35298
12-7-04	0.2000	1.0001	10.0000	50.0004	RSM	35298
12-8-04	0.2000	1.0000	10.0001	50.0003	RSM	35298
12-9-04	0.2001	1.0000	10.0000	50.0003	RSM	35298
12-10-04	0.2000	1.0001	10.0001	50.0004	RSM	35298
12-13-04	0.2000	1.0000	10.0001	50.0002	RSM	35298
12-14-04	0.2001	1.0001	10.0000	50.0003	RSM	35298
12-15-04	0.2000	1.0000	10.0000	50.0004	RSM	35298
12-16-04	0.2000	1.0001	10.0000	50.0002	RSM	35298
12-17-04	0.1999	1.0000	10.0001	50.0003	RSM	35298

Continued on Page

Read and Understood By

R. Mann — Signed
11-22-04 — Date
Signed
Date

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176702

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.12
Location: Presidio BB 3

Sample ID	Lab ID
BB3EX156[0.5]	176702-001
DUP121604A	176702-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/6/05
Operations Manager

Signature: _____ Date: 1/6/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	176702
Client:	Treadwell & Rollo
Project:	2893.12
Location:	Presidio BB 3
Request Date:	12/16/04
Samples Received:	12/16/04

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 12/16/04. The samples were received cold and intact.

Pesticides (EPA 8081A):
High responses were observed for aldrin, delta-BHC, and methoxychlor in the ICV analyzed 12/17/04 03:38; average ICV drift met method requirements. Low response was observed for 4,4'-DDT in the CCV analyzed 12/23/04 08:35; average CCV drift met method requirements. No other analytical problems were encountered.

PCBs (EPA 8082):
No analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

176702

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrida Reinis
Samplers: mike Chamberlain
Recorder (Signature Required):

Turnaround Time: 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: PCBs	Pesticides	Silica gel clean-up	Hold	Remarks
-1 BBSEX156[0.5]	12/16/04	1359		X						1		X	X			
-2 DUP121604A	12/16/04	1340		X						1		X	X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/16/04	1405	[signature]	12/16/04	1405
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002249

Rec'd cold & intact 12/17/04 SBS

4

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX156[0.5]	Batch#:	97582
Lab ID:	176702-001	Sampled:	12/16/04
Matrix:	Soil	Received:	12/16/04
Units:	ug/Kg	Prepared:	12/17/04
Basis:	dry	Analyzed:	12/17/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	
beta-BHC	ND	1.8	
gamma-BHC	ND	1.8	
delta-BHC	ND	1.8	
Heptachlor	ND	1.8	
Aldrin	ND	1.8	
Heptachlor epoxide	ND	1.8	
Endosulfan I	ND	1.8	
Dieldrin	ND	3.5	
4,4'-DDE	ND	3.5	
Endrin	ND	3.5	
Endosulfan II	ND	3.5	
Endosulfan sulfate	ND	3.5	
4,4'-DDD	ND	3.5	
Endrin ketone	ND	3.5	
4,4'-DDT	ND	3.5	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.8	0.52
gamma-Chlordane	ND	1.8	0.49
Methoxychlor	ND	18	
Toxaphene	ND	63	

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	100	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP121604A	Batch#:	97582
Lab ID:	176702-002	Sampled:	12/16/04
Matrix:	Soil	Received:	12/16/04
Units:	ug/Kg	Prepared:	12/17/04
Basis:	dry	Analyzed:	12/17/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.4	
4,4'-DDE	ND	3.4	
Endrin	ND	3.4	
Endosulfan II	ND	3.4	
Endosulfan sulfate	ND	3.4	
4,4'-DDD	ND	3.4	
Endrin ketone	ND	3.4	
4,4'-DDT	ND	3.4	
Chlordane (Technical)	ND	31	
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.49
Methoxychlor	ND	17	
Toxaphene	ND	62	

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276676	Batch#:	97582
Matrix:	Soil	Prepared:	12/17/04
Units:	ug/Kg	Analyzed:	12/17/04
Basis:	as received		

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin ketone	ND	3.3	
4,4'-DDT	ND	3.3	
Chlordane (Technical)	ND	30	
alpha-Chlordane	ND	1.7	0.49
gamma-Chlordane	ND	1.7	0.55
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	93	65-135
Decachlorobiphenyl	90	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276677	Batch#:	97582
Matrix:	Soil	Prepared:	12/17/04
Units:	ug/Kg	Analyzed:	12/17/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.32	11.69	88	65-135
Heptachlor	13.32	12.90	97	65-135
Aldrin	13.32	12.82	96	65-135
Dieldrin	26.63	24.46	92	65-135
Endrin	26.63	25.48	96	65-135
4,4'-DDT	26.63	26.20	98	65-135

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	95	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	97582
MSS Lab ID:	176665-045	Sampled:	12/14/04
Matrix:	Soil	Received:	12/15/04
Units:	ug/Kg	Prepared:	12/17/04
Basis:	as received	Analyzed:	12/23/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3620B
Lab ID: QC276716

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.3700	13.42	11.51	86	65-135
Heptachlor	<0.4900	13.42	14.32	107	65-135
Aldrin	<0.4100	13.42	12.09	90	65-135
Dieldrin	1.485	26.85	26.47	93	65-135
Endrin	<0.6800	26.85	27.39	102	65-135
4,4'-DDT	4.758	26.85	29.09 #	91	65-135

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	75	65-135

Type: MSD Cleanup Method: EPA 3620B
Lab ID: QC276717

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.24	11.04	83	65-135	3	35
Heptachlor	13.24	13.52	102	65-135	4	35
Aldrin	13.24	11.32	86	65-135	5	35
Dieldrin	26.47	25.87	92	65-135	1	35
Endrin	26.47	28.00	106	65-135	4	35
4,4'-DDT	26.47	31.37 #	101	65-135	9	35

Surrogate	%REC	Limits
TCMX	76	65-135
Decachlorobiphenyl	74	65-135

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234506701001 Name: Type: (normal) Date: 16-DEC-2004 22:33 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	351_007	234506701007	pest_1	16-DEC-2004 22:33	04WS1628
2	351_008	234506701008	pest_2	16-DEC-2004 23:03	04WS1629
3	351_009	234506701009	pest_3	16-DEC-2004 23:34	04WS2051
4	351_010	234506701010	pest_4	17-DEC-2004 00:04	04WS2344
5	351_011	234506701011	pest_5	17-DEC-2004 00:35	04WS2053
6	351_012	234506701012	pest_6	17-DEC-2004 01:05	04WS1634
7	351_013	234506701013	pest_7	17-DEC-2004 01:36	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	5997.6	6764.1	8007.5	9427.0	9814.2	10954	11360	AVRG	R		1.123E-4		pg	8903.4	23	0.995	20	rsd ***
gamma-BHC	A	5335.6	7124.3	8197.7	9239.6	9486.6	10178	10377	AVRG	R		1.168E-4		pg	8562.7	21	0.995	20	rsd ***
beta-BHC	A	4534.8	5167.0	5144.2	5125.4	5127.1	5171.1	5125.6	AVRG	R		1.978E-4		pg	5056.5	5	0.995	20	
delta-BHC	A	5956.8	7292.9	8105.6	9171.6	9457.4	10157	10365	AVRG	R		1.157E-4		pg	8643.7	19	0.995	20	
Heptachlor	A	7588.3	8276.3	8675.9	8766.4	8838.1	8774.5	8496.1	AVRG	R		1.178E-4		pg	8487.9	5	0.995	20	
Aldrin	A	6708.8	7149.9	7797.2	8358.8	8581.8	8947.7	8900.6	AVRG	R		1.240E-4		pg	8063.5	11	0.995	20	
Heptachlor epoxide	A	8585.6	8499.3	8799.3	8722.3	8800.6	8592.6	8102.6	AVRG	R		1.165E-4		pg	8586.0	3	0.995	20	
gamma-Chlordane	A	8611.2	8552.6	8984.4	9047.2	9228.9	9232.5	8940.8	AVRG	R		1.118E-4		pg	8942.5	3	0.995	20	
alpha-Chlordane	A	8397.0	8339.3	8469.6	8923.8	9014.7	8847.9	8559.2	AVRG	R		1.156E-4		pg	8650.2	3	0.995	20	
4,4'-DDE	A	6786.1	7564.3	8527.4	8624.3	8846.5	8634.6	8031.4	AVRG	R		1.228E-4		pg	8144.9	9	0.995	20	
Endosulfan I	A	7673.4	7816.1	8237.9	8306.8	8455.6	8397.5	7978.0	AVRG	R		1.231E-4		pg	8123.6	4	0.995	20	
Dieldrin	A	7435.4	7827.0	8446.4	8370.6	8480.4	8149.5	7483.6	AVRG	R		1.246E-4		pg	8027.6	6	0.995	20	
Endrin	A	7036.6	7211.6	7646.4	7393.9	7478.7	7049.4	6412.8	AVRG	R		1.394E-4		pg	7175.6	6	0.995	20	
4,4'-DDD	A	5066.0	5412.8	6016.2	6121.6	6331.0	6272.0	5765.3	AVRG	R		1.708E-4		pg	5855.0	8	0.995	20	
Endosulfan II	A	8209.3	8181.3	8385.2	7929.2	8013.6	7564.0	6840.7	AVRG	R		1.270E-4		pg	7874.8	7	0.995	20	
4,4'-DDT	A	4921.9	5592.4	6549.4	6409.4	6694.9	6539.9	6114.4	AVRG	R		1.635E-4		pg	6117.5	11	0.995	20	
Methoxychlor	A	3685.8	3372.4	3170.0	2680.4	2670.1	2408.1	2115.8	AVRG	R		3.482E-4		pg	2871.8	19	0.995	20	
Endosulfan sulfate	A	8185.8	7713.6	7707.2	7154.1	7218.1	6788.2	6068.3	AVRG	R		1.377E-4		pg	7262.2	10	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD Reviewed By: MCH
Calnum: 234506701001 Name: Type: (normal) Date: 16-DEC-2004 22:33 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	8574.4	8650.1	8920.2	8262.3	8336.6	7828.8	6904.0	AVRG	R		1.218E-4		pg	8210.9	8	0.995	20	
TCMX	A	7907.6	8023.6	8159.2	7943.4	7938.8	7926.2	7620.6	AVRG	R		1.261E-4		pg	7931.3	2	0.995	20	
Decachlorobiphenyl	A	12292	10630	10225	8644.6	8635.2	7597.5		AVRG	R		1.034E-4		pg	9670.8	18	0.995	20	
alpha-BHC	B	16846	17434	18213	18571	18450	18925	19021	AVRG	R		5.492E-5		pg	18208	4	0.995	20	
gamma-BHC	B	16720	16668	16993	16851	16770	16857	16878	AVRG	R		5.945E-5		pg	16820	1	0.995	20	
beta-BHC	B	12079	10110	9224.9	8450.2	8215.2	7840.5	7591.9	AVRG	R		1.102E-4		pg	9073.0	17	0.995	20	
delta-BHC	B	19887	17707	17201	16849	16649	16574	16540	AVRG	R		5.766E-5		pg	17344	7	0.995	20	
Heptachlor	B	14288	13576	13640	13072	13025	12477	11978	AVRG	R		7.604E-5		pg	13151	6	0.995	20	
Aldrin	B	17027	16565	16800	16318	16242	15734	15054	AVRG	R		6.154E-5		pg	16249	4	0.995	20	
Heptachlor epoxide	B	13827	15876	15024	14520	14308	13382	12505	AVRG	R		7.039E-5		pg	14206	8	0.995	20	
gamma-Chlordane	B	17942	17821	17576	16657	16693	16130	15484	AVRG	R		5.917E-5		pg	16900	5	0.995	20	
alpha-Chlordane	B	18499	17781	17424	16330	16345	15648	14923	AVRG	R		5.985E-5		pg	16707	8	0.995	20	
4,4'-DDE	B	15005	15202	15314	14363	14449	13712	12991	AVRG	R		6.928E-5		pg	14434	6	0.995	20	
Endosulfan I	B	16786	15845	15410	14221	14127	13118	12027	AVRG	R		6.894E-5		pg	14505	11	0.995	20	
Dieldrin	B	15443	15015	14887	13807	13781	12896	12044	AVRG	R		7.152E-5		pg	13982	9	0.995	20	
Endrin	B	11947	13344	12806	11822	11805	10891	10078	AVRG	R		8.465E-5		pg	11813	9	0.995	20	
4,4'-DDD	B	10565	9754.4	9495.0	8916.3	8984.2	8669.6	8032.8	AVRG	R		1.087E-4		pg	9202.5	9	0.995	20	
Endosulfan II	B	16405	14710	13868	12418	12342	11375	10429	AVRG	R		7.646E-5		pg	13078	16	0.995	20	
4,4'-DDT	B	7993.1	7922.5	8848.3	8529.3	8874.0	8730.4	8425.9	AVRG	R		1.180E-4		pg	8474.8	5	0.995	20	
Methoxychlor	B	4325.9	3921.7	3789.7	3352.9	3403.9	3284.9	2951.3	AVRG	R		2.797E-4		pg	3575.8	13	0.995	20	
Endosulfan sulfate	B	15385	13539	12674	11263	11252	10410	9498.0	AVRG	R		8.331E-5		pg	12003	17	0.995	20	
Endrin ketone	B	16026	14448	13716	12199	12267	11464	10503	AVRG	R		7.724E-5		pg	12946	15	0.995	20	
TCMX	B	15415	14306	13661	12746	12539	12246	11782	AVRG	R		7.552E-5		pg	13242	10	0.995	20	
Decachlorobiphenyl	B	18723	15872	14906	12690	12808	11607		AVRG	R		6.928E-5		pg	14434	18	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22	9		20	
EPA 8081A	B	22	10		20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Calname :
Calnum : 234506701001 Caldate : 16-DEC-2004 Caltype :

ICV 234506701017 (351_017) standards: 04WS2392

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max	
alpha-BHC	A	234506701017	17-DEC-2004	25.000	29.823	pg	**19**	15	v+ ***
gamma-BHC	A	234506701017	17-DEC-2004	25.000	29.963	pg	**20**	15	v+ ***
beta-BHC	A	234506701017	17-DEC-2004	25.000	26.978	pg	8	15	
delta-BHC	A	234506701017	17-DEC-2004	25.000	29.869	pg	**19**	15	v+ ***
Heptachlor	A	234506701017	17-DEC-2004	25.000	27.788	pg	11	15	
Aldrin	A	234506701017	17-DEC-2004	25.000	29.001	pg	**16**	15	v+ ***
Heptachlor epoxide	A	234506701017	17-DEC-2004	25.000	26.500	pg	6	15	
gamma-Chlordane	A	234506701017	17-DEC-2004	25.000	26.311	pg	5	15	
alpha-Chlordane	A	234506701017	17-DEC-2004	25.000	26.316	pg	5	15	
4,4'-DDE	A	234506701017	17-DEC-2004	25.000	26.821	pg	7	15	
Endosulfan I	A	234506701017	17-DEC-2004	25.000	27.273	pg	9	15	
Dieldrin	A	234506701017	17-DEC-2004	25.000	26.767	pg	7	15	
Endrin	A	234506701017	17-DEC-2004	25.000	26.762	pg	7	15	
4,4'-DDD	A	234506701017	17-DEC-2004	25.000	26.479	pg	6	15	
Endosulfan II	A	234506701017	17-DEC-2004	25.000	26.587	pg	6	15	
4,4'-DDT	A	234506701017	17-DEC-2004	25.000	27.138	pg	9	15	
Methoxychlor	A	234506701017	17-DEC-2004	25.000	31.452	pg	**26**	15	v+ ***
Endosulfan sulfate	A	234506701017	17-DEC-2004	25.000	26.658	pg	7	15	
Endrin ketone	A	234506701017	17-DEC-2004	25.000	26.947	pg	8	15	
alpha-BHC	B	234506701017	17-DEC-2004	25.000	27.359	pg	9	15	
gamma-BHC	B	234506701017	17-DEC-2004	25.000	27.070	pg	8	15	
beta-BHC	B	234506701017	17-DEC-2004	25.000	24.316	pg	-3	15	
delta-BHC	B	234506701017	17-DEC-2004	25.000	26.447	pg	6	15	
Heptachlor	B	234506701017	17-DEC-2004	25.000	26.898	pg	8	15	
Aldrin	B	234506701017	17-DEC-2004	25.000	27.243	pg	9	15	
Heptachlor epoxide	B	234506701017	17-DEC-2004	25.000	25.792	pg	3	15	
gamma-Chlordane	B	234506701017	17-DEC-2004	25.000	25.301	pg	1	15	
alpha-Chlordane	B	234506701017	17-DEC-2004	25.000	25.492	pg	2	15	
4,4'-DDE	B	234506701017	17-DEC-2004	25.000	26.404	pg	6	15	
Endosulfan I	B	234506701017	17-DEC-2004	25.000	25.690	pg	3	15	
Dieldrin	B	234506701017	17-DEC-2004	25.000	26.873	pg	7	15	
Endrin	B	234506701017	17-DEC-2004	25.000	27.120	pg	8	15	
4,4'-DDD	B	234506701017	17-DEC-2004	25.000	26.242	pg	5	15	
Endosulfan II	B	234506701017	17-DEC-2004	25.000	26.389	pg	6	15	
4,4'-DDT	B	234506701017	17-DEC-2004	25.000	27.153	pg	9	15	
Methoxychlor	B	234506701017	17-DEC-2004	25.000	30.690	pg	**23**	15	v+ ***
Endosulfan sulfate	B	234506701017	17-DEC-2004	25.000	26.206	pg	5	15	
Endrin ketone	B	234506701017	17-DEC-2004	25.000	26.213	pg	5	15	

Method	Ch	Count	Avg %D	Limit	Flags
EPA 8081A	A	20	10	15	
EPA 8081A	B	20	6	15	

+=high bias v=ICV
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234507628001 Run Name: Injected: 17-DEC-2004 12:28
Filename: 352_001 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	383909.24
Endrin aldehyde	A	0
Endrin ketone	A	4242.96

Endrin Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	652163.63
4,4'-DDE	A	1465.03
4,4'-DDD	A	13655.61

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	522054.78
Endrin aldehyde	B	17887.47
Endrin ketone	B	7693.72

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	718722.55
4,4'-DDE	B	8763.66
4,4'-DDD	B	38024.68

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234507628010 Run Name: Injected: 17-DEC-2004 19:16
Filename: 352_010 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	424448.62
Endrin aldehyde	A	0
Endrin ketone	A	8419.46

Endrin Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	682380.63
4,4'-DDE	A	1518.53
4,4'-DDD	A	11617.6

4,4'-DDT Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	636833.99
Endrin aldehyde	B	10730.08
Endrin ketone	B	14070.71

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	890301.38
4,4'-DDE	B	15705.32
4,4'-DDD	B	24684.4

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234507628019 Run Name: Injected: 17-DEC-2004 23:50
Filename: 352_019 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	412354.5
Endrin aldehyde	A	0
Endrin ketone	A	5196.32

Endrin Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	696826.74
4,4'-DDE	A	1433.34
4,4'-DDD	A	7465.06

4,4'-DDT Breakdown %: 1
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	613632.83
Endrin aldehyde	B	14640.87
Endrin ketone	B	13027.23

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	946242.98
4,4'-DDE	B	8274.19
4,4'-DDD	B	26919.85

4,4'-DDT Breakdown %: 4
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234513616060 Run Name: Injected: 22-DEC-2004 22:25
Filename: 356_060 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	369630.03
Endrin aldehyde	A	1086.66
Endrin ketone	A	8384.38

Endrin Breakdown %: 2
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	575030.01
4,4'-DDE	A	1528.86
4,4'-DDD	A	46254.36

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	574323.87
Endrin aldehyde	B	1714.38
Endrin ketone	B	23985.03

Endrin Breakdown %: 4
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	826552.68
4,4'-DDE	B	4423.74
4,4'-DDD	B	67421.06

4,4'-DDT Breakdown %: 8
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instrument: GC16 Gas Chromatograph #16 ECD
Seqnum: 234513616079 Run Name: Injected: 23-DEC-2004 08:04
Filename: 356_079 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	339339.15
Endrin aldehyde	A	398.99
Endrin ketone	A	10995.22

Endrin Breakdown %: 3
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	445697.8
4,4'-DDE	A	1922.46
4,4'-DDD	A	72741.33

4,4'-DDT Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	532427.48
Endrin aldehyde	B	1213.98
Endrin ketone	B	29407.59

Endrin Breakdown %: 5
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	658768.52
4,4'-DDE	B	4370.83
4,4'-DDD	B	155977.87

4,4'-DDT Breakdown %: **20 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16
Seqnum : 234507628003
Calnum : 234506701001
Standards: 04WS2344

Run Name : ccv
Filename : 352_003
Caldate : 16-DEC-2004

IDF : 1.0
Injected : 17-DEC-2004 13:29
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8903.4	10254	20.00000	23.03321	pg	15	15	rsd ***
gamma-BHC	A	8562.7	9786.1	20.00000	22.85756	pg	14	15	rsd ***
beta-BHC	A	5056.5	5269.6	20.00000	20.84285	pg	4	15	
delta-BHC	A	8643.7	9388.1	20.00000	21.72249	pg	9	15	
Heptachlor	A	8487.9	8976.0	20.00000	21.15012	pg	6	15	
Aldrin	A	8063.5	8563.6	20.00000	21.24033	pg	6	15	
Heptachlor epoxide	A	8586.0	8710.0	20.00000	20.28885	pg	1	15	
gamma-Chlordane	A	8942.5	8943.7	20.00000	20.00262	pg	0	15	
alpha-Chlordane	A	8650.2	8911.0	20.00000	20.60287	pg	3	15	
4,4'-DDE	A	8144.9	8345.4	40.00000	40.98441	pg	2	15	
Endosulfan I	A	8123.6	8189.7	20.00000	20.16269	pg	1	15	
Dieldrin	A	8027.6	8141.2	40.00000	40.56606	pg	1	15	
Endrin	A	7175.6	7104.2	40.00000	39.60160	pg	-1	15	
4,4'-DDD	A	5855.0	5803.5	40.00000	39.64847	pg	-1	15	
Endosulfan II	A	7874.8	7714.2	40.00000	39.18428	pg	-2	15	
4,4'-DDT	A	6117.5	6061.1	40.00000	39.63179	pg	-1	15	
Methoxychlor	A	2871.8	2555.9	200.0000	177.9999	pg	-11	15	
Endosulfan sulfate	A	7262.2	6905.3	40.00000	38.03419	pg	-5	15	
Endrin ketone	A	8210.9	8035.1	40.00000	39.14330	pg	-2	15	
TCMX	A	7931.3	8646.8	40.00000	43.60831	pg	9	15	
Decachlorobiphenyl	A	9670.8	8814.1	40.00000	36.45652	pg	-9	15	
alpha-BHC	B	18208	17312	20.00000	19.01515	pg	-5	15	
gamma-BHC	B	16820	15291	20.00000	18.18277	pg	-9	15	
beta-BHC	B	9073.0	7069.7	20.00000	15.58407	pg	**-22**	15	c- ***
delta-BHC	B	17344	13978	20.00000	16.11877	pg	**-19**	15	c- ***
Heptachlor	B	13151	12016	20.00000	18.27425	pg	-9	15	
Aldrin	B	16249	16286	20.00000	20.04573	pg	0	15	
Heptachlor epoxide	B	14206	13626	20.00000	19.18356	pg	-4	15	
gamma-Chlordane	B	16900	16031	20.00000	18.97069	pg	-5	15	
alpha-Chlordane	B	16707	15709	20.00000	18.80523	pg	-6	15	
4,4'-DDE	B	14434	11336	40.00000	31.41503	pg	**-21**	15	c- ***
Endosulfan I	B	14505	13406	20.00000	18.48444	pg	-8	15	
Dieldrin	B	13982	12367	40.00000	35.37826	pg	-12	15	
Endrin	B	11813	10360	40.00000	35.07702	pg	-12	15	
4,4'-DDD	B	9202.5	6964.1	40.00000	30.27043	pg	**-24**	15	c- ***
Endosulfan II	B	13078	11522	40.00000	35.23986	pg	-12	15	
4,4'-DDT	B	8474.8	6937.8	40.00000	32.74581	pg	**-18**	15	c- ***
Methoxychlor	B	3575.8	2800.3	200.0000	156.6254	pg	**-22**	15	c- ***
Endosulfan sulfate	B	12003	10336	40.00000	34.44329	pg	-14	15	
Endrin ketone	B	12946	10974	40.00000	33.90808	pg	-15	15	
TCMX	B	13242	13472	40.00000	40.69461	pg	2	15	
Decachlorobiphenyl	B	14434	12629	40.00000	34.99808	pg	-13	15	
Average EPA 8081A	A		(count=22)				5	15	
Average EPA 8081A	B		(count=22)				12	15	

-=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_3 IDF : 1.0
Seqnum : 234507628011 Filename : 352_011 Injected : 17-DEC-2004 19:46
Calnum : 234506701001 Caldate : 16-DEC-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8903.4	8359.6	10.00000	9.389170	pg	-6	15	rsd ***
gamma-BHC	A	8562.7	8365.2	10.00000	9.769423	pg	-2	15	rsd ***
beta-BHC	A	5056.5	5064.9	10.00000	10.01659	pg	0	15	
delta-BHC	A	8643.7	7865.2	10.00000	9.099338	pg	-9	15	
Heptachlor	A	8487.9	7969.1	10.00000	9.388755	pg	-6	15	
Aldrin	A	8063.5	7702.4	10.00000	9.552193	pg	-4	15	
Heptachlor epoxide	A	8586.0	8609.4	10.00000	10.02722	pg	0	15	
gamma-Chlordane	A	8942.5	8693.5	10.00000	9.721531	pg	-3	15	
alpha-Chlordane	A	8650.2	8837.0	10.00000	10.21595	pg	2	15	
4,4'-DDE	A	8144.9	8116.6	20.00000	19.93056	pg	0	15	
Endosulfan I	A	8123.6	8011.2	10.00000	9.861677	pg	-1	15	
Dieldrin	A	8027.6	8194.3	20.00000	20.41543	pg	2	15	
Endrin	A	7175.6	7372.1	20.00000	20.54759	pg	3	15	
4,4'-DDD	A	5855.0	5855.5	20.00000	20.00162	pg	0	15	
Endosulfan II	A	7874.8	8115.8	20.00000	20.61233	pg	3	15	
4,4'-DDT	A	6117.5	5916.6	20.00000	19.34328	pg	-3	15	
Methoxychlor	A	2871.8	2958.0	100.0000	103.0009	pg	3	15	
Endosulfan sulfate	A	7262.2	7426.7	20.00000	20.45318	pg	2	15	
Endrin ketone	A	8210.9	8639.9	20.00000	21.04488	pg	5	15	
TCMX	A	7931.3	8426.7	20.00000	21.24924	pg	6	15	
Decachlorobiphenyl	A	9670.8	9739.3	20.00000	20.14177	pg	1	15	
alpha-BHC	B	18208	17785	10.00000	9.767182	pg	-2	15	
gamma-BHC	B	16820	16390	10.00000	9.744650	pg	-3	15	
beta-BHC	B	9073.0	8589.1	10.00000	9.466721	pg	-5	15	
delta-BHC	B	17344	15610	10.00000	9.000041	pg	-10	15	
Heptachlor	B	13151	12055	10.00000	9.166667	pg	-8	15	
Aldrin	B	16249	15990	10.00000	9.840972	pg	-2	15	
Heptachlor epoxide	B	14206	14980	10.00000	10.54464	pg	5	15	
gamma-Chlordane	B	16900	16474	10.00000	9.747567	pg	-3	15	
alpha-Chlordane	B	16707	16360	10.00000	9.792441	pg	-2	15	
4,4'-DDE	B	14434	13986	20.00000	19.37983	pg	-3	15	
Endosulfan I	B	14505	14637	10.00000	10.09136	pg	1	15	
Dieldrin	B	13982	13871	20.00000	19.84107	pg	-1	15	
Endrin	B	11813	12016	20.00000	20.34313	pg	2	15	
4,4'-DDD	B	9202.5	8598.4	20.00000	18.68727	pg	-7	15	
Endosulfan II	B	13078	13194	20.00000	20.17759	pg	1	15	
4,4'-DDT	B	8474.8	8017.9	20.00000	18.92181	pg	-5	15	
Methoxychlor	B	3575.8	3484.0	100.0000	97.43426	pg	-3	15	
Endosulfan sulfate	B	12003	11834	20.00000	19.71909	pg	-1	15	
Endrin ketone	B	12946	12740	20.00000	19.68205	pg	-2	15	
TCMX	B	13242	13482	20.00000	20.36233	pg	2	15	
Decachlorobiphenyl	B	14434	14190	20.00000	19.66141	pg	-2	15	
Average EPA 8081A	A		(count=22)				3	15	
Average EPA 8081A	B		(count=22)				4	15	

rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234507628021 Filename : 352_021 Injected : 18-DEC-2004 00:51
Calnum : 234506701001 Caldate : 16-DEC-2004 Caltype :
Standards: 04WS2344

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8903.4	10441	20.00000	23.45352	pg	17	15	c+ rsd ***
gamma-BHC	A	8562.7	9901.5	20.00000	23.12713	pg	16	15	c+ rsd ***
beta-BHC	A	5056.5	5239.5	20.00000	20.72391	pg	4	15	
delta-BHC	A	8643.7	9309.6	20.00000	21.54071	pg	8	15	
Heptachlor	A	8487.9	8610.2	20.00000	20.28811	pg	1	15	
Aldrin	A	8063.5	8434.6	20.00000	20.92037	pg	5	15	
Heptachlor epoxide	A	8586.0	8584.0	20.00000	19.99516	pg	0	15	
gamma-Chlordane	A	8942.5	8715.4	20.00000	19.49215	pg	-3	15	
alpha-Chlordane	A	8650.2	8616.5	20.00000	19.92210	pg	0	15	
4,4'-DDE	A	8144.9	8116.1	40.00000	39.85840	pg	0	15	
Endosulfan I	A	8123.6	8025.3	20.00000	19.75807	pg	-1	15	
Dieldrin	A	8027.6	8094.5	40.00000	40.33341	pg	1	15	
Endrin	A	7175.6	7091.9	40.00000	39.53336	pg	-1	15	
4,4'-DDD	A	5855.0	5998.9	40.00000	40.98320	pg	2	15	
Endosulfan II	A	7874.8	7668.4	40.00000	38.95173	pg	-3	15	
4,4'-DDT	A	6117.5	6082.7	40.00000	39.77285	pg	-1	15	
Methoxychlor	A	2871.8	2624.0	200.0000	182.7396	pg	-9	15	
Endosulfan sulfate	A	7262.2	6956.4	40.00000	38.31567	pg	-4	15	
Endrin ketone	A	8210.9	8257.4	40.00000	40.22631	pg	1	15	
TCMX	A	7931.3	8626.9	40.00000	43.50805	pg	9	15	
Decachlorobiphenyl	A	9670.8	8686.1	40.00000	35.92711	pg	-10	15	
alpha-BHC	B	18208	19463	20.00000	21.37825	pg	7	15	
gamma-BHC	B	16820	17395	20.00000	20.68440	pg	3	15	
beta-BHC	B	9073.0	8282.7	20.00000	18.25795	pg	-9	15	
delta-BHC	B	17344	16399	20.00000	18.91018	pg	-5	15	
Heptachlor	B	13151	12343	20.00000	18.77156	pg	-6	15	
Aldrin	B	16249	16108	20.00000	19.82660	pg	-1	15	
Heptachlor epoxide	B	14206	14029	20.00000	19.75040	pg	-1	15	
gamma-Chlordane	B	16900	15910	20.00000	18.82745	pg	-6	15	
alpha-Chlordane	B	16707	15548	20.00000	18.61284	pg	-7	15	
4,4'-DDE	B	14434	13376	40.00000	37.06961	pg	-7	15	
Endosulfan I	B	14505	13621	20.00000	18.78179	pg	-6	15	
Dieldrin	B	13982	13096	40.00000	37.46638	pg	-6	15	
Endrin	B	11813	11155	40.00000	37.77103	pg	-6	15	
4,4'-DDD	B	9202.5	8427.4	40.00000	36.63124	pg	-8	15	
Endosulfan II	B	13078	11970	40.00000	36.61238	pg	-8	15	
4,4'-DDT	B	8474.8	7966.1	40.00000	37.59922	pg	-6	15	
Methoxychlor	B	3575.8	3145.9	200.0000	175.9586	pg	-12	15	
Endosulfan sulfate	B	12003	10820	40.00000	36.05637	pg	-10	15	
Endrin ketone	B	12946	11918	40.00000	36.82373	pg	-8	15	
TCMX	B	13242	13646	40.00000	41.22032	pg	3	15	
Decachlorobiphenyl	B	14434	12915	40.00000	35.79080	pg	-11	15	
Average EPA 8081A	A		(count=22)				5	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : ccv IDF : 1.0
Seqnum : 234513616063 Filename : 356_063 Injected : 22-DEC-2004 23:56
Calnum : 234506701001 Caldate : 16-DEC-2004 Caltype :
Standards: 04WS2053

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8903.4	10512	25.00000	29.51745	pg	**18**	15	c+ rsd ***
gamma-BHC	A	8562.7	9660.4	25.00000	28.20495	pg	13	15	rsd ***
beta-BHC	A	5056.5	5149.4	25.00000	25.45957	pg	2	15	
delta-BHC	A	8643.7	9475.7	25.00000	27.40630	pg	10	15	
Heptachlor	A	8487.9	8861.9	25.00000	26.10151	pg	4	15	
Aldrin	A	8063.5	8766.0	25.00000	27.17803	pg	9	15	
Heptachlor epoxide	A	8586.0	8825.0	25.00000	25.69573	pg	3	15	
gamma-Chlordane	A	8942.5	9058.8	25.00000	25.32511	pg	1	15	
alpha-Chlordane	A	8650.2	8883.4	25.00000	25.67386	pg	3	15	
4,4'-DDE	A	8144.9	8359.1	50.00000	51.31466	pg	3	15	
Endosulfan I	A	8123.6	8314.5	25.00000	25.58759	pg	2	15	
Dieldrin	A	8027.6	8290.4	50.00000	51.63683	pg	3	15	
Endrin	A	7175.6	7110.6	50.00000	49.54725	pg	-1	15	
4,4'-DDD	A	5855.0	6531.6	50.00000	55.77780	pg	12	15	
Endosulfan II	A	7874.8	7653.5	50.00000	48.59518	pg	-3	15	
4,4'-DDT	A	6117.5	5690.9	50.00000	46.51380	pg	-7	15	
Methoxychlor	A	2871.8	2451.3	250.0000	213.3920	pg	-15	15	
Endosulfan sulfate	A	7262.2	6842.5	50.00000	47.11018	pg	-6	15	
Endrin ketone	A	8210.9	7803.1	50.00000	47.51688	pg	-5	15	
TCMX	A	7931.3	8435.2	50.00000	53.17614	pg	6	15	
Decachlorobiphenyl	A	9670.8	7624.1	50.00000	39.41848	pg	**-21**	15	c-
alpha-BHC	B	18208	20102	25.00000	27.59960	pg	10	15	
gamma-BHC	B	16820	17779	25.00000	26.42588	pg	6	15	
beta-BHC	B	9073.0	8753.1	25.00000	24.11860	pg	-4	15	
delta-BHC	B	17344	17784	25.00000	25.63503	pg	3	15	
Heptachlor	B	13151	13966	25.00000	26.54903	pg	6	15	
Aldrin	B	16249	16347	25.00000	25.15138	pg	1	15	
Heptachlor epoxide	B	14206	14478	25.00000	25.47957	pg	2	15	
gamma-Chlordane	B	16900	16267	25.00000	24.06385	pg	-4	15	
alpha-Chlordane	B	16707	15775	25.00000	23.60527	pg	-6	15	
4,4'-DDE	B	14434	14304	50.00000	49.55032	pg	-1	15	
Endosulfan I	B	14505	13941	25.00000	24.02777	pg	-4	15	
Dieldrin	B	13982	13632	50.00000	48.74903	pg	-3	15	
Endrin	B	11813	11524	50.00000	48.77393	pg	-2	15	
4,4'-DDD	B	9202.5	10872	50.00000	59.06933	pg	**18**	15	c+ ***
Endosulfan II	B	13078	12044	50.00000	46.04633	pg	-8	15	
4,4'-DDT	B	8474.8	8231.2	50.00000	48.56295	pg	-3	15	
Methoxychlor	B	3575.8	3462.0	250.0000	242.0440	pg	-3	15	
Endosulfan sulfate	B	12003	10572	50.00000	44.03956	pg	-12	15	
Endrin ketone	B	12946	11364	50.00000	43.89021	pg	-12	15	
TCMX	B	13242	13146	50.00000	49.63844	pg	-1	15	
Decachlorobiphenyl	B	14434	10903	50.00000	37.76616	pg	**-24**	15	c-
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				7	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Instid : GC16 Run Name : pest_4 IDF : 1.0
Seqnum : 234513616080 Filename : 356_080 Injected : 23-DEC-2004 08:35
Calnum : 234506701001 Caldate : 16-DEC-2004 Caltype :
Standards: 04WS2344

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	8903.4	10716	20.00000	24.07090	pg	**20**	15	c+ rsd ***
gamma-BHC	A	8562.7	9802.3	20.00000	22.89538	pg	14	15	rsd ***
beta-BHC	A	5056.5	5249.2	20.00000	20.76219	pg	4	15	
delta-BHC	A	8643.7	9525.2	20.00000	22.03974	pg	10	15	
Heptachlor	A	8487.9	8920.9	20.00000	21.02015	pg	5	15	
Aldrin	A	8063.5	8823.4	20.00000	21.88469	pg	9	15	
Heptachlor epoxide	A	8586.0	8908.0	20.00000	20.75000	pg	4	15	
gamma-Chlordane	A	8942.5	9020.6	20.00000	20.17469	pg	1	15	
alpha-Chlordane	A	8650.2	8945.6	20.00000	20.68299	pg	3	15	
4,4'-DDE	A	8144.9	8316.1	40.00000	40.84053	pg	2	15	
Endosulfan I	A	8123.6	8303.9	20.00000	20.44384	pg	2	15	
Dieldrin	A	8027.6	8391.2	40.00000	41.81179	pg	5	15	
Endrin	A	7175.6	7026.9	40.00000	39.17120	pg	-2	15	
4,4'-DDD	A	5855.0	7165.4	40.00000	48.95268	pg	**22**	15	c+ ***
Endosulfan II	A	7874.8	7739.6	40.00000	39.31375	pg	-2	15	
4,4'-DDT	A	6117.5	4392.1	40.00000	28.71872	pg	**-28**	15	c- ***
Methoxychlor	A	2871.8	2361.6	200.0000	164.4674	pg	**-18**	15	c- ***
Endosulfan sulfate	A	7262.2	6973.3	40.00000	38.40896	pg	-4	15	
Endrin ketone	A	8210.9	7886.8	40.00000	38.42126	pg	-4	15	
TCMX	A	7931.3	8748.2	40.00000	44.11983	pg	10	15	
Decachlorobiphenyl	A	9670.8	7932.5	40.00000	32.81017	pg	**-18**	15	c-
alpha-BHC	B	18208	21224	20.00000	23.31196	pg	**17**	15	c+ ***
gamma-BHC	B	16820	18640	20.00000	22.16456	pg	11	15	
beta-BHC	B	9073.0	9167.2	20.00000	20.20773	pg	1	15	
delta-BHC	B	17344	18628	20.00000	21.48043	pg	7	15	
Heptachlor	B	13151	14640	20.00000	22.26509	pg	11	15	
Aldrin	B	16249	17128	20.00000	21.08255	pg	5	15	
Heptachlor epoxide	B	14206	15224	20.00000	21.43279	pg	7	15	
gamma-Chlordane	B	16900	16736	20.00000	19.80557	pg	-1	15	
alpha-Chlordane	B	16707	16204	20.00000	19.39752	pg	-3	15	
4,4'-DDE	B	14434	14736	40.00000	40.83846	pg	2	15	
Endosulfan I	B	14505	14450	20.00000	19.92421	pg	0	15	
Dieldrin	B	13982	14229	40.00000	40.70671	pg	2	15	
Endrin	B	11813	11792	40.00000	39.92666	pg	0	15	
4,4'-DDD	B	9202.5	12478	40.00000	54.23699	pg	**36**	15	c+ ***
Endosulfan II	B	13078	12737	40.00000	38.95755	pg	-3	15	
4,4'-DDT	B	8474.8	6511.6	40.00000	30.73406	pg	**-23**	15	c- ***
Methoxychlor	B	3575.8	3370.7	200.0000	188.5291	pg	-6	15	
Endosulfan sulfate	B	12003	11062	40.00000	36.86308	pg	-8	15	
Endrin ketone	B	12946	11628	40.00000	35.92705	pg	-10	15	
TCMX	B	13242	13770	40.00000	41.59419	pg	4	15	
Decachlorobiphenyl	B	14434	11438	40.00000	31.69750	pg	**-21**	15	c-
Average EPA 8081A	A		(count=22)				9	15	
Average EPA 8081A	B		(count=22)				8	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234506701 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 16-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
004	351_004	X	hex			16-DEC-2004 21:01	1.0						
005	351_005	PEM				16-DEC-2004 21:32	1.0		1			1	
007	351_007	ICAL	pest_1			16-DEC-2004 22:33	1.0					2	
008	351_008	ICAL	pest_2			16-DEC-2004 23:03	1.0					3	
009	351_009	ICAL	pest_3			16-DEC-2004 23:34	1.0					4	
010	351_010	ICAL	pest_4			17-DEC-2004 00:04	1.0					5	
011	351_011	ICAL	pest_5			17-DEC-2004 00:35	1.0					6	
012	351_012	ICAL	pest_6			17-DEC-2004 01:05	1.0					7	
013	351_013	ICAL	pest_7			17-DEC-2004 01:36	1.0					8	
015	351_015	X	icv			17-DEC-2004 02:37	1.0					9	
016	351_016	X	icv			17-DEC-2004 03:07	1.0					9	
017	351_017	ICV				17-DEC-2004 03:38	1.0	6	1			10	

24

Stds used: 1=04WS2193 2=04WS1628 3=04WS1629 4=04WS2051 5=04WS2344 6=04WS2053 7=04WS1634 8=04WS1635 9=04WS2099 10=04WS2392

SEQUENCE SUMMARY FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234507628 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 17-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	352_001	PEM				17-DEC-2004 12:28	1.0	1.0			1	1	
002	352_002	X	pest_4			17-DEC-2004 12:59	1.0					2	
003	352_003	CCV	ccv			17-DEC-2004 13:29	1.0	1.0	9		1	2	
005	352_005	BLANK	QC276676	97582	Soil	17-DEC-2004 14:32	1.0	0.664	7		1		
006	352_006	LCS	QC276677	97582	Soil	17-DEC-2004 15:03	1.0	0.6658	9		1		
008	352_008	SAMPLE	176680-002	97582	Soil	17-DEC-2004 18:15	1.0	0.6614	3		1		
010	352_010	PEM				17-DEC-2004 19:16	1.0	1.0			1	1	
011	352_011	CCV	pest_3			17-DEC-2004 19:46	1.0	1.0	2		1	3	
012	352_012	X	ccv			17-DEC-2004 20:16	1.0					3	
013	352_013	X	ccv			17-DEC-2004 20:47	1.0					4	
014	352_014	X	pem			17-DEC-2004 21:17	1.0					1	
016	352_016	SAMPLE	176702-001	97582	Soil	17-DEC-2004 22:18	1.0	0.6707			1		
017	352_017	SAMPLE	176702-002	97582	Soil	17-DEC-2004 22:49	1.0	0.6583			1		
018	352_018	X	hex			17-DEC-2004 23:19	1.0						
019	352_019	PEM				17-DEC-2004 23:50	1.0	1.0			1	1	
020	352_020	X	pest_4			18-DEC-2004 00:20	1.0	1.0			1	2	
021	352_021	CCV	ccv			18-DEC-2004 00:51	1.0	1.0	2		1	2	
022	352_022	X	pem			18-DEC-2004 01:21	1.0					1	

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053

SEQUENCE SUMMARY FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234513616 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 21-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
008	356_008	PEM				21-DEC-2004 16:16	1.0	1.0			1	1	
009	356_009	X	ccv			21-DEC-2004 16:47	1.0					2	
010	356_010	X	ccv			21-DEC-2004 17:17	1.0					2	
011	356_011	CCV	pest_4			21-DEC-2004 17:49	1.0	1.0	3		1	2	
012	356_012	X	ccv			21-DEC-2004 19:14	1.0					2	
013	356_013	X	ccv			21-DEC-2004 19:44	1.0					2	
015	356_015	SAMPLE	176665-009	97582	Soil	21-DEC-2004 20:45	1.0						
016	356_016	SAMPLE	176665-012	97582	Soil	21-DEC-2004 21:16	1.0						
017	356_017	SAMPLE	176665-015	97582	Soil	21-DEC-2004 21:46	1.0						
018	356_018	SAMPLE	176665-018	97582	Soil	21-DEC-2004 22:17	1.0						
019	356_019	SAMPLE	176665-021	97582	Soil	21-DEC-2004 22:47	1.0						
020	356_020	SAMPLE	176665-024	97582	Soil	21-DEC-2004 23:18	1.0						
021	356_021	SAMPLE	176665-027	97582	Soil	21-DEC-2004 23:48	1.0						
022	356_022	SAMPLE	176665-030	97582	Soil	22-DEC-2004 00:19	1.0						
023	356_023	SAMPLE	176665-033	97582	Soil	22-DEC-2004 00:49	1.0						
024	356_024	SAMPLE	176665-036	97582	Soil	22-DEC-2004 01:19	1.0						
026	356_026	PEM				22-DEC-2004 02:20	1.0	1.0			1	1	
027	356_027	X	ccv			22-DEC-2004 02:51	1.0					3	
028	356_028	X	ccv			22-DEC-2004 03:21	1.0					3	
029	356_029	CCV	pest_5			22-DEC-2004 03:52	1.0	1.0	5		1	4	
043	356_043	X	activated co			22-DEC-2004 11:12	1.0						
044	356_044	X	hex test			22-DEC-2004 11:42	1.0						
045	356_045	PEM				22-DEC-2004 12:13	1.0	1.0			1	1	
046	356_046	CCV	pest_4			22-DEC-2004 12:43	1.0	1.0	6		1	2	
047	356_047	X	ccv			22-DEC-2004 13:14	1.0					2	
049	356_049	SAMPLE	176665-009	97582	Soil	22-DEC-2004 15:32	1.0	0.6676	1		1		
050	356_050	SAMPLE	176665-012	97582	Soil	22-DEC-2004 16:02	1.0	0.6618	2		1		
051	356_051	SAMPLE	176665-015	97582	Soil	22-DEC-2004 16:33	1.0	0.6605	1		1		
052	356_052	SAMPLE	176665-018	97582	Soil	22-DEC-2004 17:03	1.0	0.6693	1		1		
053	356_053	SAMPLE	176665-021	97582	Soil	22-DEC-2004 17:33	1.0	0.6707	1		1		
054	356_054	SAMPLE	176665-024	97582	Soil	22-DEC-2004 19:22	1.0	0.668	1		1		

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053 5=04WS2422 6=04WS1461

SEQUENCE SUMMARY FOR 176702 8081 Soil
Curtis & Tompkins Laboratories

Sequence: 234513616 Instrument: GC16 Gas Chromatograph #16 ECD Begun: 21-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
055	356_055	SAMPLE	176665-027	97582	Soil	22-DEC-2004 19:53	1.0	0.6711	1		1		
056	356_056	SAMPLE	176665-030	97582	Soil	22-DEC-2004 20:23	1.0	0.6605	1		1		
057	356_057	SAMPLE	176665-033	97582	Soil	22-DEC-2004 20:54	1.0	0.6649	1		1		
058	356_058	SAMPLE	176665-036	97582	Soil	22-DEC-2004 21:24	1.0	0.672	1		1		
060	356_060	PEM				22-DEC-2004 22:25	1.0	1.0			1	1	
061	356_061	X	pest_3			22-DEC-2004 22:56	1.0	1.0			1	3	
062	356_062	X	ccv			22-DEC-2004 23:26	1.0					3	
063	356_063	CCV	ccv			22-DEC-2004 23:56	1.0	1.0	4		1	4	
064	356_064	X	pem			23-DEC-2004 00:27	1.0					1	
065	356_065	ICAL	toxaphene			23-DEC-2004 00:57	1.0	1.0				5	
066	356_066	X	ccv			23-DEC-2004 01:28	1.0					6	
068	356_068	SAMPLE	176665-039	97582	Soil	23-DEC-2004 02:28	1.0	0.6618	4		1		
069	356_069	SAMPLE	176665-042	97582	Soil	23-DEC-2004 02:59	1.0	0.672	4		1		
070	356_070	MSS	176665-045	97582	Soil	23-DEC-2004 03:29	1.0	0.6748	4		1		
071	356_071	SAMPLE	176665-049	97582	Soil	23-DEC-2004 04:00	1.0	0.6631	4		1		
072	356_072	MSS	176665-003	97720	Soil	23-DEC-2004 04:30	1.0	0.6647	4		1		
073	356_073	SAMPLE	176665-006	97720	Soil	23-DEC-2004 05:01	1.0	0.6691	4		1		
074	356_074	MS	QC276716	97582	Soil	23-DEC-2004 05:31	1.0	0.6711	9		1		
075	356_075	MSD	QC276717	97582	Soil	23-DEC-2004 06:02	1.0	0.6618	9		1		
076	356_076	MS	QC277210	97720	Soil	23-DEC-2004 06:33	1.0	0.6693	9		1		
077	356_077	MSD	QC277211	97720	Soil	23-DEC-2004 07:03	1.0	0.6618	9		1		
079	356_079	PEM				23-DEC-2004 08:04	1.0	1.0			1	1	
080	356_080	CCV	pest_4			23-DEC-2004 08:35	1.0	1.0	8		1	2	
081	356_081	X	ccv			23-DEC-2004 09:05	1.0					2	
082	356_082	CCV	toxaphene			23-DEC-2004 09:36	1.0	1.0			1	5	
083	356_083	X	ccv			23-DEC-2004 10:06	1.0					6	
084	356_084	X	pem			23-DEC-2004 10:37	1.0				1	1	

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053 5=04WS2422 6=04WS1461

Curtis & Tompkins, Ltd.

Reporting Summary for 176702 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176702-001	alpha-BHC	GC16	B	12/17/04 22:18
176702-001	beta-BHC	GC16	B	12/17/04 22:18
176702-001	gamma-BHC	GC16	B	12/17/04 22:18
176702-001	delta-BHC	GC16	B	12/17/04 22:18
176702-001	Heptachlor	GC16	B	12/17/04 22:18
176702-001	Aldrin	GC16	B	12/17/04 22:18
176702-001	Heptachlor epoxide	GC16	B	12/17/04 22:18
176702-001	Endosulfan I	GC16	B	12/17/04 22:18
176702-001	Dieldrin	GC16	B	12/17/04 22:18
176702-001	4,4'-DDE	GC16	B	12/17/04 22:18
176702-001	Endrin	GC16	B	12/17/04 22:18
176702-001	Endosulfan II	GC16	B	12/17/04 22:18
176702-001	Endosulfan sulfate	GC16	B	12/17/04 22:18
176702-001	4,4'-DDD	GC16	B	12/17/04 22:18
176702-001	Endrin ketone	GC16	B	12/17/04 22:18
176702-001	4,4'-DDT	GC16	B	12/17/04 22:18
176702-001	Chlordane (Technical)	GC16	B	12/17/04 22:18
176702-001	alpha-Chlordane	GC16	B	12/17/04 22:18
176702-001	gamma-Chlordane	GC16	B	12/17/04 22:18
176702-001	Methoxychlor	GC16	B	12/17/04 22:18
176702-001	Toxaphene	GC16	B	12/17/04 22:18
176702-001	TCMX	GC16	B	12/17/04 22:18
176702-001	Decachlorobiphenyl	GC16	B	12/17/04 22:18
176702-002	alpha-BHC	GC16	B	12/17/04 22:49
176702-002	beta-BHC	GC16	B	12/17/04 22:49
176702-002	gamma-BHC	GC16	B	12/17/04 22:49
176702-002	delta-BHC	GC16	B	12/17/04 22:49
176702-002	Heptachlor	GC16	B	12/17/04 22:49
176702-002	Aldrin	GC16	B	12/17/04 22:49
176702-002	Heptachlor epoxide	GC16	B	12/17/04 22:49
176702-002	Endosulfan I	GC16	B	12/17/04 22:49
176702-002	Dieldrin	GC16	B	12/17/04 22:49
176702-002	4,4'-DDE	GC16	B	12/17/04 22:49
176702-002	Endrin	GC16	B	12/17/04 22:49
176702-002	Endosulfan II	GC16	B	12/17/04 22:49
176702-002	Endosulfan sulfate	GC16	B	12/17/04 22:49
176702-002	4,4'-DDD	GC16	B	12/17/04 22:49
176702-002	Endrin ketone	GC16	B	12/17/04 22:49
176702-002	4,4'-DDT	GC16	B	12/17/04 22:49
176702-002	Chlordane (Technical)	GC16	B	12/17/04 22:49
176702-002	alpha-Chlordane	GC16	B	12/17/04 22:49
176702-002	gamma-Chlordane	GC16	B	12/17/04 22:49
176702-002	Methoxychlor	GC16	B	12/17/04 22:49
176702-002	Toxaphene	GC16	B	12/17/04 22:49
176702-002	TCMX	GC16	B	12/17/04 22:49
176702-002	Decachlorobiphenyl	GC16	B	12/17/04 22:49
QC276676	alpha-BHC	GC16	B	12/17/04 14:32

Curtis & Tompkins, Ltd.

Reporting Summary for 176702 8081 Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC276676	beta-BHC	GC16	A	12/17/04 14:32
QC276676	gamma-BHC	GC16	B	12/17/04 14:32
QC276676	delta-BHC	GC16	A	12/17/04 14:32
QC276676	Heptachlor	GC16	A	12/17/04 14:32
QC276676	Aldrin	GC16	A	12/17/04 14:32
QC276676	Heptachlor epoxide	GC16	A	12/17/04 14:32
QC276676	Endosulfan I	GC16	A	12/17/04 14:32
QC276676	Dieldrin	GC16	A	12/17/04 14:32
QC276676	4,4'-DDE	GC16	A	12/17/04 14:32
QC276676	Endrin	GC16	A	12/17/04 14:32
QC276676	Endosulfan II	GC16	A	12/17/04 14:32
QC276676	Endosulfan sulfate	GC16	A	12/17/04 14:32
QC276676	4,4'-DDD	GC16	A	12/17/04 14:32
QC276676	Endrin ketone	GC16	A	12/17/04 14:32
QC276676	4,4'-DDT	GC16	A	12/17/04 14:32
QC276676	Chlordane (Technical)	GC16	B	12/17/04 14:32
QC276676	alpha-Chlordane	GC16	A	12/17/04 14:32
QC276676	gamma-Chlordane	GC16	A	12/17/04 14:32
QC276676	Methoxychlor	GC16	A	12/17/04 14:32
QC276676	Toxaphene	GC16	B	12/17/04 14:32
QC276676	TCMX	GC16	A	12/17/04 14:32
QC276676	Decachlorobiphenyl	GC16	A	12/17/04 14:32
QC276677	gamma-BHC	GC16	B	12/17/04 15:03
QC276677	Heptachlor	GC16	A	12/17/04 15:03
QC276677	Aldrin	GC16	A	12/17/04 15:03
QC276677	Dieldrin	GC16	A	12/17/04 15:03
QC276677	Endrin	GC16	A	12/17/04 15:03
QC276677	4,4'-DDT	GC16	A	12/17/04 15:03
QC276677	TCMX	GC16	A	12/17/04 15:03
QC276677	Decachlorobiphenyl	GC16	A	12/17/04 15:03
QC276716	gamma-BHC	GC16	B	12/23/04 05:31
QC276716	Heptachlor	GC16	B	12/23/04 05:31
QC276716	Aldrin	GC16	B	12/23/04 05:31
QC276716	Dieldrin	GC16	B	12/23/04 05:31
QC276716	Endrin	GC16	B	12/23/04 05:31
QC276716	4,4'-DDT	GC16	A	12/23/04 05:31
QC276716	TCMX	GC16	B	12/23/04 05:31
QC276716	Decachlorobiphenyl	GC16	B	12/23/04 05:31
QC276717	gamma-BHC	GC16	B	12/23/04 06:02
QC276717	Heptachlor	GC16	B	12/23/04 06:02
QC276717	Aldrin	GC16	B	12/23/04 06:02
QC276717	Dieldrin	GC16	B	12/23/04 06:02
QC276717	Endrin	GC16	B	12/23/04 06:02
QC276717	4,4'-DDT	GC16	A	12/23/04 06:02
QC276717	TCMX	GC16	B	12/23/04 06:02
QC276717	Decachlorobiphenyl	GC16	B	12/23/04 06:02

Curtis & Tompkins Laboratories Sample Preparation Summary 29-DEC-2004 16:03

Batch Number : 97582
Date Extracted: 17-DEC-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3545

Analysis : 8081
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225C
Spike #2 ID : 04SS439
Spike #3 ID :
SOP Version : 8081ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176665-009			Treadwell & Rollo	Soil	14.98	g	10	0.667557	1		.02	0		8081	3620B	
176665-012			Treadwell & Rollo	Soil	15.11	g	10	0.661813	1		.02	0		8081	3620B	
176665-015			Treadwell & Rollo	Soil	15.14	g	10	0.660502	1		.02	0		8081	3620B	
176665-018			Treadwell & Rollo	Soil	14.94	g	10	0.669344	1		.02	0		8081	3620B	
176665-021			Treadwell & Rollo	Soil	14.91	g	10	0.670691	1		.02	0		8081	3620B	
176665-024			Treadwell & Rollo	Soil	14.97	g	10	0.668003	1		.02	0		8081	3620B	
176665-027			Treadwell & Rollo	Soil	14.9	g	10	0.671141	1		.02	0		8081	3620B	
176665-030			Treadwell & Rollo	Soil	15.14	g	10	0.660502	1		.02	0		8081	3620B	
176665-033			Treadwell & Rollo	Soil	15.04	g	10	0.664894	1		.02	0		8081	3620B	
176665-036			Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.02	0		8081	3620B	
176665-039			Treadwell & Rollo	Soil	15.11	g	10	0.661813	1		.02	0		8081	3620B	
176665-042			Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.02	0		8081	3620B	
176665-045			Treadwell & Rollo	Soil	14.82	g	10	0.674764	1		.02	0		8081	3620B	MSS
176665-049			Treadwell & Rollo	Soil	15.08	g	10	0.663130	1		.02	0		8081	3620B	
176680-002			Montezuma Wetlands LLC	Soil	15.12	g	10	0.661376	1		.02	0		8081	3620B	
176702-001			Treadwell & Rollo	Soil	14.91	g	10	0.670691	1		.02	0		8081		
176702-002			Treadwell & Rollo	Soil	15.19	g	10	0.658328	1		.02	0		8081		
QC276676	MB			Soil	15.06	g	10	0.664011	1		.02	0		8081		
QC276677	LCS			Soil	15.02	g	10	0.665779	1		.02	.025		8081		
QC276716	MS	of 176665-045		Soil	14.9	g	10	0.671141	1		.02	.025		8081	3620B	
QC276717	MSD	of 176665-045		Soil	15.11	g	10	0.661813	1		.02	.025		8081	3620B	

Prep Chemist: SFK for Jom 12/29/04 Reviewed By: SFK for JO Date: 12/29/04

Relinquished By: SFK for AMS 12/29/04 Received By: JA Date: 12/29/04

Curtis & Tompkins, Ltd. **8081 SOIL PREP LOG** BK 1965

LIMS Batch No: 97582 **Extraction Method:** **Cleanup Method:** Page 91

LIMS Analysis: 8081 ☐ EPA 3550b Sonication ☐ EPA 3640a GPC

Extracted by: JDM ☒ EPA 3545 PFE (Mth# 10) ☒ EPA 3620b Florisil

Date Extracted: 17 Dec 04 ☐ EPA 3540c Soxhlet ☐ _____

☐ _____

	Sample # and letter	Sample Wt (g)	Final Vol (mL)	Cleanup (x if needed)	Comments
	176680-002	15.12	10.0	X	
	MB QC276676	15.06	↓	X	
	LCS ↓ 7	15.02	↓	X	
	MS QC276716	14.90	↓	↓	
5	MSD ↓ 17	15.11	↓	↓	
	176665-009	14.98	↓	↓	
	-012	15.11	↓	↓	
	-015	15.14	↓	↓	
	-018	14.94	↓	↓	
10	-021	14.91	↓	↓	
	-024	14.97	↓	↓	
	-027	14.90	↓	↓	
	-030	15.14	↓	↓	
	-033	15.04	↓	↓	
15	-036	14.88	↓	↓	
	-039	15.11	↓	↓	
	-042	14.88	↓	↓	
	-045	14.82	↓	↓	MSS
	↓ -049	15.08	↓	↓	
20	176702-001A	14.91	↓	↓	
	↓ -002 ↓	15.99	↓	↓	

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM44258	JDM 17 Dec 04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex CH0603	↓
0.02 mL of surrogate solution was added to all samples	04WS2225C	↓
0.025 mL of spike solution was added to all spikes	04SS439	↓
1:1 CH_2Cl_2 (lot# EM44259):Acetone(lot# EM44179) was added to all	✓	↓
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	↓
ASE Cellulose Filters used:	Whatman D28	↓
Soxhlets on at:	N/A	↓
Soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed powdered Na_2SO_4	N/A	MS 12/17/04
Exchanged 2x with Hexane	CM623	↓
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume	✓	↓
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	N/A	↓

Jessie Mee 17 Dec 04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jennifer Dell 12/17/04
Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: AMS

Cleanup Date: 12/17/04

Benchbook # **BK 1991**

Page 81

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB QC276676	97582	1.0	1.0	Lost 1-2 mL while microsnyding
LCS ↓ 77	↓	↓	↓	
176680-002	↓	↓	↓	

	Mfg & Lot # / Time / Program	Initials / Date
☑ Extracts were cleaned up using Florisil cartridges	Resprep 303221-A7	AMS 12/17/04
Florisil cartridges/ columns rinsed 3x with Hexane	CM623	↓
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	↓	↓
Acetone	44179	↓
Concentrated to volumes as noted above	✓	↓

12/17/04

Extraction Chemist / Date

Continued from page —

Continued on page —

12/17/04

Reviewed by / Date

Curtis & Tompkins, Ltd. **Florisil Cleanup** **EPA 3620B**

Prep Chemist: KR

Cleanup Date: 21-DEC-04

Benchbook # **BK 1991**

Page 83

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MS QC276716	97582	1.0	1.0	
MSD ↓ 17				
176665-009				
12				
15				
18				
21				
24				
27				
30				possible contam. from manifold particles
33				
36				
39				
42				
45				MSS
49				

JRD 12/21/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using Florisil cartridges	Respreo 303221-A7	KR 21-DEC-04
Florisil cartridges/ columns rinsed 3x with Hexane	B&J CM623	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	B&J CL905	
Acetone	EM44179	
Concentrated to volumes as noted above		

KR 21-DEC-04

Extraction Chemist / Date

Continued from page —

Continued on page —

Jennifer Dell 12/21/04

Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Benchbook # **BK 1991**

Page 85

Prep Chemist: 97582

Cleanup Date: 12/22/04

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MS 07276716	97582	1.0	1.0	
MSD 7				
176665-009				
-012				
-015				
-018				
-021				
-024				
-027				
-030				
-033				
-036				
-039				
-042				
-049				
MB 2C277208	97780			
LCS 9				
MS 10				
MSD 11				
176665-003				MSS
-006				
176676-003				
-006				
-010				
-014				
-018				
-021				
-025				
-028				
CONTINUED				

NEXT PAGE

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using Florisil cartridges	402290-BE KESPKER	3 Symbols
Florisil cartridges/ columns rinsed 3x with Hexane	5ml 1M623	
Extracts were eluted with 9.0 mL 9:1 Hexane/Acetone — Hexane	✓	
Acetone	Fu49174	
Concentrated to volumes as noted above	✓	

12/22/04

Extraction Chemist / Date

Continued from page \

Continued on page 86

2/23/04

Reviewed by / Date

Curtis & Tompkins, Ltd.

Florisil Cleanup

EPA 3620B

Prep Chemist: ZB

Cleanup Date: 12/22/09

Benchbook # BK-1991

Page 86

Sample #	Extraction Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
176712-003	97720	1.0	1.0	
1 -006				
176716-006				
1 -007				
176746-001	97682	1.0	1.0	
-003				
-004				
1 -005				MS25
MB 0C27 7653				
LCS 1 4				
MS 1 5				
MSD 1 6				

Project SOIL ALIQUOT

Continued from Page

BK2632

Sample ID	Weight (g)	Analysis	Comments
176680-002	4.90	PCB	1. COMP A-D
176680-002	15.12	8081	↓
MB	15.00		
LCS	15.02		

Continued on Page

Read and Understood By

Michelle Curtis 12/10/04

Sample Id	Weight (g)	Analysis	Comments
176682-001A	30.45	8100	gpc, aka 176573-001A
-002A	30.13		100A
176665-003	14.88	8081	2, comp 1A-2A
-006	14.80		4A-5A
-009	14.98		7A-8A
-012	15.11		MS 10A-11A
~~-015~~ MC 12/16			~~13A-14A~~
-015	15.14		13A-14A ~~16A-17A~~
-018	14.94		16A-17A ~~19A-20A~~
-021	14.91		19A-20A ~~22A-23~~
-024	14.97		22A-23A ~~25A-26~~
-027	14.90		25A-26A ~~28A-29~~
-030	15.14		28A-29A 31A-32
-033	15.04		31A-32A ~~34A-35~~
-036	14.88		34A-35A 37A-38A
-039	15.11		37A-38A ~~40A-41A~~
-042	14.88		~~40A-41A~~
-045	14.82		MSS, 43A-44A
-049	15.08		44A-47A
MS	14.90		
MSD	15.11		
CCS	15.02		
MB	15.06		

Dec 12/16/04

Continued on Page

Read and Understood by:

Michelle Curtis — Signed — 12/16/04 — Date

Signed — Date

Project: Soil Aliquot BK2032

Continued from Page

Sample ID	Weight (g)	Analysis	Comments
176702-001 A	8081	14.91	
↓ -002	↓	15.19	
176702-001	PCB	14.88	
↓ -002 ↓	↓	15.00	

JMS 12/17/04

Continued on Page

Read and Understood By:

Mulvenberg 12/17/04

Signed Date Signed Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Soil 3545

Analyte	Units	GC14B A	GC14B B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/Kg	05/08/03 0.64	05/08/03 0.48	04/08/04 0.33	04/08/04 0.36	04/28/04 0.30	04/28/04 0.65	06/22/04 0.53	06/22/04 0.59
Heptachlor	ug/Kg	05/08/03 0.76	05/08/03 0.67	04/08/04 0.49	04/08/04 0.49	04/28/04 0.30	04/28/04 0.64	06/22/04 0.68	06/22/04 0.53
Aldrin	ug/Kg	05/08/03 0.56	05/08/03 0.60	04/08/04 0.94	04/08/04 0.41	04/28/04 0.70	04/28/04 0.74	06/22/04 0.56	06/22/04 0.58
Dieldrin	ug/Kg	05/08/03 0.57	05/08/03 0.51	04/08/04 0.51	04/08/04 0.64	04/28/04 0.67	04/28/04 0.75	06/22/04 1.3	06/22/04 1.5
Endrin	ug/Kg	05/08/03 0.65	05/08/03 0.54	04/08/04 0.65	04/08/04 0.67	04/28/04 0.74	04/28/04 0.68	06/22/04 1.7	06/22/04 1.6
4,4'-DDT	ug/Kg	05/08/03 1.2	05/08/03 0.74	04/08/04 1.8	04/08/04 1.2	04/28/04 1.8	04/28/04 0.58	06/22/04 1.6	06/22/04 1.7
alpha-BHC	ug/Kg	05/08/03 0.55	05/08/03 0.56	04/08/04 0.43	04/08/04 0.33	04/28/04 0.37	04/28/04 0.65	06/22/04 0.52	06/22/04 0.59
beta-BHC	ug/Kg	05/08/03 0.74	05/08/03 0.60	04/08/04 0.43	04/08/04 0.41	04/28/04 0.42	04/28/04 0.65	06/22/04 0.71	06/22/04 0.53
delta-BHC	ug/Kg	05/08/03 0.59	05/08/03 0.61	04/08/04 0.54	04/08/04 0.34	04/28/04 0.53	04/28/04 1.2	06/22/04 0.61	06/22/04 0.62
Heptachlor epoxide	ug/Kg	05/08/03 0.60	05/08/03 0.62	04/08/04 0.38	04/08/04 0.50	04/28/04 0.73	04/28/04 0.80	06/22/04 0.55	06/22/04 0.65
gamma-Chlordane	ug/Kg	05/08/03 0.57	05/08/03 0.55	04/08/04 0.55	04/08/04 0.47	04/28/04 0.78	04/28/04 0.63	06/22/04 0.57	06/22/04 0.72
alpha-Chlordane	ug/Kg	05/08/03 0.61	05/08/03 0.57	04/08/04 0.50	04/08/04 0.50	04/28/04 0.71	04/28/04 0.55	06/22/04 0.64	06/22/04 0.72
Endosulfan I	ug/Kg	05/08/03 0.50	05/08/03 0.55	04/08/04 0.86	04/08/04 0.89	04/28/04 1.4	04/28/04 1.2	06/22/04 0.78	06/22/04 0.76
4,4'-DDE	ug/Kg	05/08/03 0.54	05/08/03 0.50	04/08/04 0.53	04/08/04 0.53	04/28/04 0.86	04/28/04 0.72	06/22/04 1.2	06/22/04 1.6
Endosulfan II	ug/Kg	05/08/03 0.67	05/08/03 0.62	04/08/04 0.96	04/08/04 0.96	04/28/04 1.5	04/28/04 1.4	06/22/04 1.3	06/22/04 1.6
Endosulfan sulfate	ug/Kg	05/08/03 0.68	05/08/03 0.66	04/08/04 1.3	04/08/04 0.78	04/28/04 1.2	04/28/04 0.69	06/22/04 1.3	06/22/04 1.7
4,4'-DDD	ug/Kg	05/08/03 0.66	05/08/03 0.63	04/08/04 0.62	04/08/04 0.68	04/28/04 0.72	04/28/04 0.71	06/22/04 1.4	06/22/04 1.5
Endrin aldehyde	ug/Kg	05/08/03 0.50	05/08/03 0.56	04/08/04 0.63	04/08/04 0.73	04/28/04 0.87	04/28/04 0.79	06/22/04 1.6	06/22/04 1.8
Endrin ketone	ug/Kg	05/08/03 0.83	05/08/03 0.65	04/08/04 1.6	04/08/04 0.82	04/28/04 1.2	04/28/04 0.79	06/22/04 1.3	06/22/04 1.6
Chlordane (Technical)	ug/Kg	04/17/04 15	04/17/04 13	04/09/04 4.8	04/09/04 3.8	04/30/04 6.1	04/30/04 6.2	06/23/04 3.1	06/23/04 5.0
Methoxychlor	ug/Kg	05/08/03 1.1	05/08/03 3.1	04/08/04 1.2	04/08/04 2.7	04/28/04 4.2	04/28/04 1.6	06/22/04 7.9	06/22/04 9.8
Toxaphene	ug/Kg	04/17/04 25	04/17/04 18	04/10/04 29	04/10/04 12	04/30/04 36	04/30/04 15	06/30/04 11	06/30/04 12

PCBs

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	12/16/04
Units:	ug/Kg	Received:	12/16/04
Diln Fac:	1.000	Prepared:	12/17/04
Batch#:	97597		

Field ID:	BB3EX156[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	12/19/04
Lab ID:	176702-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	82	65-135

Field ID:	DUP121604A	Moisture:	4%
Type:	SAMPLE	Analyzed:	12/19/04
Lab ID:	176702-002	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	20
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	ND	10

Surrogate	%REC	Limits
TCMX	84	65-135
Decachlorobiphenyl	75	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	12/16/04
Units:	ug/Kg	Received:	12/16/04
Diln Fac:	1.000	Prepared:	12/17/04
Batch#:	97597		

Type:	BLANK	Analyzed:	12/29/04
Lab ID:	QC276746	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	98	65-135
Decachlorobiphenyl	114	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276747	Batch#:	97597
Matrix:	Soil	Prepared:	12/17/04
Units:	ug/Kg	Analyzed:	12/29/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	167.4	168.1	100	65-135

Surrogate	%REC	Limits
TCMX	98	65-135
Decachlorobiphenyl	110	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	176702	Location:	Presidio BB 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	97597
MSS Lab ID:	176554-001	Sampled:	12/09/04
Matrix:	Soil	Received:	12/10/04
Units:	ug/Kg	Prepared:	12/17/04
Basis:	dry	Analyzed:	12/30/04
Diln Fac:	1.000		

Type:	MS	Moisture:	11%
Lab ID:	QC276748	Cleanup Method:	EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	ND	184.3	153.0	83	65-135

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	98	65-135

Type:	MSD	Moisture:	11%
Lab ID:	QC276749	Cleanup Method:	EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	188.6	157.0	83	65-135	0	35

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	87	65-135

ND= Not Detected
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204501936001 Name: Type: (normal) Date: 13-DEC-2004 13:36 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	348_003	204501936003	pcb10_2	13-DEC-2004 13:36	04WS2273
2	348_004	204501936004	pcb25_5	13-DEC-2004 14:09	04WS2274
3	348_005	204501936005	pcb100_20	13-DEC-2004 14:42	04WS2275
4	348_006	204501936006	pcb250_50	13-DEC-2004 15:16	04WS1789
5	348_007	204501936007	pcb500_100	13-DEC-2004 15:49	04WS1790
6	348_008	204501936008	pcb750_150	13-DEC-2004 16:22	04WS2276
7	348_009	204501936009	pcb1k_200	13-DEC-2004 16:55	04WS2277

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	486.84	476.17	432.41	415.00	366.96	341.82	325.67	AVRG	R		0.002461		pg	406.41	16	.99	20	
Aroclor-1016 Peak # 2	A	861.16	910.47	808.54	713.56	630.15	567.26	535.23	AVRG	R		0.001393		pg	718.05	20	.99	20	
Aroclor-1016 Peak # 3	A	1051.6	1108.9	981.38	856.67	762.57	721.10	692.59	AVRG	R		0.001134		pg	882.12	19	.99	20	
Aroclor-1016 Peak # 4	A	447.01	561.59	411.74	421.79	389.74	364.43	350.95	AVRG	R		0.002375		pg	421.04	17	.99	20	
Aroclor-1016 Peak # 5	A	256.57	327.15	289.23	302.45	278.60	256.78	246.60	AVRG	R		0.003576		pg	279.62	10	.99	20	
Aroclor-1260 Peak # 1	A	490.15	555.70	468.53	413.19	366.32	340.79	325.56	AVRG	R		0.002365		pg	422.89	20	.99	20	
Aroclor-1260 Peak # 2	A	704.87	688.92	633.49	569.73	510.38	481.43	473.11	AVRG	R		0.001723		pg	580.27	17	.99	20	
Aroclor-1260 Peak # 3	A	2160.2	1968.6	1853.5	1589.1	1398.5	1294.1		AVRG	R		5.846E-4		pg	1710.7	20	.99	20	
Aroclor-1260 Peak # 4	A	621.57	642.36	601.78	655.66	569.36	528.44	507.10	AVRG	R		0.001696		pg	589.47	10	.99	20	
Aroclor-1260 Peak # 5	A	1205.2	1134.7	1063.9	929.31	820.78	776.38	746.52	AVRG	R		0.001048		pg	953.83	19	.99	20	
TCMX	A	21280	20859	17997	16244	14521	13736	13308	AVRG	R		5.935E-5		pg	16849	20	.99	20	
Decachlorobiphenyl	A			12997	11267	9308.7	9004.2	8275.0	AVRG	R		9.832E-5		pg	10170	19	.99	20	
Aroclor-1016 Peak # 1	B	654.20	615.91	603.59	615.18	558.65	519.00	502.42	AVRG	R		0.001720		pg	581.28	10	.99	20	
Aroclor-1016 Peak # 2	B	1052.1	989.77	897.60	798.67	695.51	663.89	631.11	AVRG	R		0.001222		pg	818.38	20	.99	20	
Aroclor-1016 Peak # 3	B	2799.3	2782.7	2525.8	2243.7	1974.1	1920.2	1827.9	AVRG	R		4.355E-4		pg	2296.2	18	.99	20	
Aroclor-1016 Peak # 4	B	660.59	729.14	706.36	672.24	615.78	621.72	601.99	AVRG	R		0.001519		pg	658.26	7	.99	20	
Aroclor-1016 Peak # 5	B	904.34	879.96	800.82	714.84	634.35	617.99	591.51	AVRG	R		0.001361		pg	734.83	17	.99	20	
Aroclor-1260 Peak # 1	B	2429.5	2338.1	2037.9	1745.3	1497.3			AVRG	R		4.976E-4		pg	2009.6	20	.99	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204501936001 Name: Type: (normal) Date: 13-DEC-2004 13:36 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 2	B	1063.3	1061.6	981.04	1163.6	1014.7	925.45	875.69	AVRG	R		9.880E-4		pg	1012.2	9	.99	20	
Aroclor-1260 Peak # 3	B	1531.9	1544.8	1447.5	1249.9	1114.1	1002.4	954.26	AVRG	R		7.914E-4		pg	1263.6	20	.99	20	
Aroclor-1260 Peak # 4	B	3643.7	3523.9	3045.4	2790.4	2407.5	2217.0		AVRG	R		3.404E-4		pg	2938.0	20	.99	20	
Aroclor-1260 Peak # 5	B	2017.1	1944.6	1803.6	1618.5	1403.9	1306.3	1258.0	AVRG	R		6.166E-4		pg	1621.7	19	.99	20	
TCMX	B		33093	28484	26510	23149	21396	19767	AVRG	R		3.937E-5		pg	25400	20	.99	20	
Decachlorobiphenyl	B			22849	19078	15911	15108	13888	AVRG	R		5.758E-5		pg	17367	21	.99	20	rsd ***

Flags used: rsd=ICAL %RSD failure
Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 204501936002 Name: Type: (normal) Date: 13-DEC-2004 19:47 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	348_014	204501936014	ar1254	13-DEC-2004 19:47	04WS2184

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	588.22	AVRG	R		0.001700		pg	588.22	0	.99	20	
Aroclor-1254 Peak # 2	A	1115.4	AVRG	R		8.965E-4		pg	1115.4	0	.99	20	
Aroclor-1254 Peak # 3	A	684.54	AVRG	R		0.001461		pg	684.54	0	.99	20	
Aroclor-1254 Peak # 4	A	831.23	AVRG	R		0.001203		pg	831.23	0	.99	20	
Aroclor-1254 Peak # 5	A	814.90	AVRG	R		0.001227		pg	814.90	0	.99	20	
Aroclor-1254 Peak # 1	B	1245.2	AVRG	R		8.031E-4		pg	1245.2	0	.99	20	
Aroclor-1254 Peak # 2	B	1709.0	AVRG	R		5.851E-4		pg	1709.0	0	.99	20	
Aroclor-1254 Peak # 3	B	1095.9	AVRG	R		9.125E-4		pg	1095.9	0	.99	20	
Aroclor-1254 Peak # 4	B	2000.1	AVRG	R		5.000E-4		pg	2000.1	0	.99	20	
Aroclor-1254 Peak # 5	B	432.35	AVRG	R		0.002313		pg	432.35	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: RH
Calnum: 824513362001 Name: Type: (normal) Date: 21-DEC-2004 18:39 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	356_008	824513362008	pcb10_2	21-DEC-2004 18:39	04WS2273
2	356_009	824513362009	pcb25_5	21-DEC-2004 19:07	04WS2274
3	356_010	824513362010	pcb100_20	21-DEC-2004 19:36	04WS2275
4	356_011	824513362011	pcb250_50	21-DEC-2004 20:04	04WS1789
5	356_012	824513362012	pcb500_100	21-DEC-2004 20:33	04WS1790
6	356_013	824513362013	pcb750_150	21-DEC-2004 21:01	04WS2276
7	356_014	824513362014	pcb1K_200	21-DEC-2004 21:30	04WS2277

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1016 Peak # 1	A	131.50	190.64	254.30	206.08	207.45	195.19	193.04	AVRG	R		0.005079		pg	196.89	18	.99	20	
Aroclor-1016 Peak # 2	A	528.27	463.48	418.88	385.42	367.15	326.34	342.84	AVRG	R		0.002471		pg	404.62	18	.99	20	
Aroclor-1016 Peak # 3	A	435.73	377.30	367.92	347.32	332.49	315.43	318.23	AVRG	R		0.002806		pg	356.35	12	.99	20	
Aroclor-1016 Peak # 4	A	225.30	196.77	196.81	181.71	145.38	139.08	143.53	AVRG	R		0.005698		pg	175.51	19	.99	20	
Aroclor-1016 Peak # 5	A	299.13	277.63	274.89	253.44	242.96	231.88	230.73	AVRG	R		0.003866		pg	258.66	10	.99	20	
Aroclor-1260 Peak # 1	A	941.21	888.63	785.96	718.87	712.37	700.30	724.18	AVRG	R		0.001279		pg	781.65	12	.99	20	
Aroclor-1260 Peak # 2	A	446.85	445.03	394.02	363.20	350.65	336.53	341.38	AVRG	R		0.002614		pg	382.52	12	.99	20	
Aroclor-1260 Peak # 3	A	504.00	509.34	455.92	412.18	406.09	390.45	399.79	AVRG	R		0.002274		pg	439.68	11	.99	20	
Aroclor-1260 Peak # 4	A	1098.8	1080.3	956.78	891.79	911.30	902.91	938.62	AVRG	R		0.001032		pg	968.64	9	.99	20	
Aroclor-1260 Peak # 5	A	797.61	668.13	573.34	522.90	518.12	507.44	519.11	AVRG	R		0.001705		pg	586.66	19	.99	20	
TCMX	A	11487	10679	10315	10206	10568	10561	10892	AVRG	R		9.370E-5		pg	10673	4	.99	20	
Decachlorobiphenyl	A	9926.4	9189.5	7939.2	7443.1	7898.2	8078.4	8722.6	AVRG	R		1.182E-4		pg	8456.8	10	.99	20	
Aroclor-1016 Peak # 1	B	295.83	265.76	281.32	254.98	261.16	237.91	236.77	AVRG	R		0.003817		pg	261.96	8	.99	20	
Aroclor-1016 Peak # 2	B	382.11	393.03	405.91	341.61	344.57	316.48	317.32	AVRG	R		0.002799		pg	357.29	10	.99	20	
Aroclor-1016 Peak # 3	B	1317.3	1306.0	1277.6	1110.9	1110.6	1037.2	1039.9	AVRG	R		8.537E-4		pg	1171.4	11	.99	20	
Aroclor-1016 Peak # 4	B	481.74	516.93	495.98	438.69	434.70	404.59	407.49	AVRG	R		0.002201		pg	454.30	10	.99	20	
Aroclor-1016 Peak # 5	B	227.56	250.49	259.46	228.55	230.30	214.34	214.64	AVRG	R		0.004307		pg	232.19	7	.99	20	
Aroclor-1260 Peak # 1	B	830.80	799.26	744.54	646.22	635.59	604.21	610.14	AVRG	R		0.001437		pg	695.82	14	.99	20	
Aroclor-1260 Peak # 2	B	905.01	923.97	826.78	723.16	714.05	665.95	671.99	AVRG	R		0.001289		pg	775.84	14	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: RH
Calnum: 824513362001 Name: Type: (normal) Date: 21-DEC-2004 18:39 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1260 Peak # 3	B	513.27	538.79	540.13	473.33	449.85	415.88	424.95	AVRG	R		0.002086		pg	479.46	11	.99	20	
Aroclor-1260 Peak # 4	B	643.05	686.82	585.45	503.74	502.81	455.18	460.15	AVRG	R		0.001824		pg	548.17	17	.99	20	
Aroclor-1260 Peak # 5	B	799.63	839.69	771.70	657.86	650.43	605.72	608.75	AVRG	R		0.001419		pg	704.83	14	.99	20	
TCMX	B	16875	16164	15279	13606	13850	13061	13336	AVRG	R		6.851E-5		pg	14596	10	.99	20	
Decachlorobiphenyl	B	11437	12128	10400	8809.5	8944.2	8503.9	9089.1	AVRG	R		1.010E-4		pg	9901.6	14	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: RH
Calnum: 824513362002 Name: Type: (normal) Date: 21-DEC-2004 23:24 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	356_018	824513362018	ar1254	21-DEC-2004 23:24	04WS2184

Analyte	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Aroclor-1254 Peak # 1	A	362.36	AVRG	R		0.002760		pg	362.36	0	.99	20	
Aroclor-1254 Peak # 2	A	496.24	AVRG	R		0.002015		pg	496.24	0	.99	20	
Aroclor-1254 Peak # 3	A	406.03	AVRG	R		0.002463		pg	406.03	0	.99	20	
Aroclor-1254 Peak # 4	A	686.73	AVRG	R		0.001456		pg	686.73	0	.99	20	
Aroclor-1254 Peak # 5	A	529.41	AVRG	R		0.001889		pg	529.41	0	.99	20	
Aroclor-1254 Peak # 1	B	508.34	AVRG	R		0.001967		pg	508.34	0	.99	20	
Aroclor-1254 Peak # 2	B	762.31	AVRG	R		0.001312		pg	762.31	0	.99	20	
Aroclor-1254 Peak # 3	B	499.42	AVRG	R		0.002002		pg	499.42	0	.99	20	
Aroclor-1254 Peak # 4	B	863.37	AVRG	R		0.001158		pg	863.37	0	.99	20	
Aroclor-1254 Peak # 5	B	187.49	AVRG	R		0.005334		pg	187.49	0	.99	20	

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Calname :
Calnum : 204501936001 Caldate : 13-DEC-2004 Caltype :

ICV 204501936012 (348_012) standards: 04WS1609

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	204501936012	13-DEC-2004	250.00	272.21	pg	9	15
Aroclor-1260	A	204501936012	13-DEC-2004	250.00	260.07	pg	4	15
Aroclor-1016	B	204501936012	13-DEC-2004	250.00	271.14	pg	8	15
Aroclor-1260	B	204501936012	13-DEC-2004	250.00	249.41	pg	0	15

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC25 Calname :
Calnum : 824513362001 Caldate : 21-DEC-2004 Caltype :

ICV 824513362017 (356_017) standards: 04WS1609

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	824513362017	21-DEC-2004	250.00	284.67	pg	14	15
Aroclor-1260	A	824513362017	21-DEC-2004	250.00	272.93	pg	9	15
Aroclor-1016	B	824513362017	21-DEC-2004	250.00	277.44	pg	11	15
Aroclor-1260	B	824513362017	21-DEC-2004	250.00	271.65	pg	9	15

CONTINUING CALIBRATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004			500.00	511.97	pg	2	15	
GC06	B	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004			500.00	496.83	pg	-1	15	
GC06	A	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004			250.00	259.77	pg	4	15	
GC06	B	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004			250.00	274.45	pg	10	15	
GC25	A	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004			500.00	572.93	pg	15	15	
GC25	B	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004			500.00	525.48	pg	5	15	
GC25	A	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004			250.00	282.17	pg	13	15	
GC25	B	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004			250.00	251.78	pg	1	15	

CONTINUING CALIBRATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1248

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204509147053	19-DEC-2004 18:40	204501936003	15-DEC-2004			250.00	254.34	pg	2	15	
GC06	B	204509147053	19-DEC-2004 18:40	204501936003	15-DEC-2004			250.00	273.09	pg	9	15	
GC06	A	204509147071	20-DEC-2004 04:40	204501936003	15-DEC-2004			250.00	263.77	pg	6	15	
GC06	B	204509147071	20-DEC-2004 04:40	204501936003	15-DEC-2004			250.00	274.71	pg	10	15	
GC25	A	824524871039	30-DEC-2004 10:04	824524871001	29-DEC-2004			250.00	228.79	pg	-8	15	
GC25	B	824524871039	30-DEC-2004 10:04	824524871001	29-DEC-2004			250.00	213.60	pg	-15	15	

CONTINUING CALIBRATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204509147050	19-DEC-2004 17:01	204501936002	13-DEC-2004			250.00	229.00	pg	-8	15	
GC06	B	204509147050	19-DEC-2004 17:01	204501936002	13-DEC-2004			250.00	251.79	pg	1	15	
GC06	A	204509147068	20-DEC-2004 03:00	204501936002	13-DEC-2004			250.00	240.64	pg	-4	15	
GC06	B	204509147068	20-DEC-2004 03:00	204501936002	13-DEC-2004			250.00	263.46	pg	5	15	
GC25	A	824524871019	29-DEC-2004 20:17	824513362002	21-DEC-2004			250.00	283.95	pg	14	15	
GC25	B	824524871019	29-DEC-2004 20:17	824513362002	21-DEC-2004			250.00	283.28	pg	13	15	
GC25	A	824524871036	30-DEC-2004 04:22	824513362002	21-DEC-2004			250.00	285.06	pg	14	15	
GC25	B	824524871036	30-DEC-2004 04:22	824513362002	21-DEC-2004			250.00	281.68	pg	13	15	
GC25	A	824524871054	30-DEC-2004 19:52	824513362002	21-DEC-2004			250.00	269.36	pg	8	15	
GC25	B	824524871054	30-DEC-2004 19:52	824513362002	21-DEC-2004			250.00	268.25	pg	7	15	

CONTINUING CALIBRATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004			500.00	447.87	pg	-10	15	
GC06	B	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004			500.00	431.74	pg	-14	15	
GC06	A	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004			250.00	224.02	pg	-10	15	
GC06	B	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004			250.00	225.20	pg	-10	15	
GC25	A	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004			500.00	533.66	pg	7	15	
GC25	B	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004			500.00	574.83	pg	15	15	
GC25	A	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004			250.00	261.38	pg	5	15	
GC25	B	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004			250.00	279.38	pg	12	15	

CONTINUING CALIBRATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004	16849	15582	100.00	92.480	pg	-8	15	
GC06	B	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004	25400	25514	100.00	100.45	pg	0	15	
GC06	A	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004	16849	16174	50.000	47.996	pg	-4	15	
GC06	B	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004	25400	27225	50.000	53.593	pg	7	15	
GC25	A	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004	10673	14064	100.00	131.78	pg	**32**	15	c+
GC25	B	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004	14596	14970	100.00	102.56	pg	3	15	
GC25	A	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004	10673	12091	50.000	56.644	pg	13	15	
GC25	B	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004	14596	13920	50.000	47.685	pg	-5	15	
GC25	A	824524871052	30-DEC-2004 18:55	824513362001	21-DEC-2004	10673	12547	100.00	117.56	pg	**18**	15	c+
GC25	B	824524871052	30-DEC-2004 18:55	824513362001	21-DEC-2004	14596	14343	100.00	98.269	pg	-2	15	

+=high bias c=CCV

CONTINUING CALIBRATION SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC06	A	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004	10170	6504.7	100.00	63.957	pg	-36	15	c-
GC06	B	204509147048	19-DEC-2004 15:54	204501936001	13-DEC-2004	17367	12145	100.00	69.935	pg	-30	15	c- rsd ***
GC06	A	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004	10170	7642.8	50.000	37.574	pg	-25	15	c-
GC06	B	204509147067	20-DEC-2004 02:27	204501936001	13-DEC-2004	17367	13549	50.000	39.007	pg	-22	15	c- rsd ***
GC25	A	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004	8456.8	6695.6	100.00	79.175	pg	-21	15	c-
GC25	B	824524871016	29-DEC-2004 18:52	824513362001	21-DEC-2004	9901.6	11545	100.00	116.60	pg	17	15	c+
GC25	A	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004	8456.8	6531.6	50.000	38.617	pg	-23	15	c-
GC25	B	824524871034	30-DEC-2004 03:25	824513362001	21-DEC-2004	9901.6	10489	50.000	52.967	pg	6	15	
GC25	A	824524871052	30-DEC-2004 18:55	824513362001	21-DEC-2004	8456.8	6356.2	100.00	75.161	pg	-25	15	c-
GC25	B	824524871052	30-DEC-2004 18:55	824513362001	21-DEC-2004	9901.6	10212	100.00	103.14	pg	3	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204501936 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
003	348_003	ICAL	pcb10_2			13-DEC-2004 13:36	1.0	1.0				1	
004	348_004	ICAL	pcb25_5			13-DEC-2004 14:09	1.0	1.0				2	
005	348_005	ICAL	pcb100_20			13-DEC-2004 14:42	1.0	1.0				3	
006	348_006	ICAL	pcb250_50			13-DEC-2004 15:16	1.0	1.0				4	
007	348_007	ICAL	pcb500_100			13-DEC-2004 15:49	1.0	1.0				5	
008	348_008	ICAL	pcb750_150			13-DEC-2004 16:22	1.0	1.0				6	
009	348_009	ICAL	pcb1k_200			13-DEC-2004 16:55	1.0	1.0				7	
011	348_011	X	hex			13-DEC-2004 18:02	1.0						
012	348_012	ICV	accu_1660			13-DEC-2004 18:35	1.0	1.0			1	8	
013	348_013	X	icv			13-DEC-2004 19:13	1.0					8	
014	348_014	CCV	ar1254			13-DEC-2004 19:47	1.0	1.0			1	9	
015	348_015	X	ccv			13-DEC-2004 20:20	1.0					9	
017	348_017	BLANK	QC275862	97370	Water	13-DEC-2004 21:26	1.0	0.025	1		1		
018	348_018	BS	QC275863	97370	Water	13-DEC-2004 22:00	1.0	0.025	1		1		
019	348_019	BSD	QC275864	97370	Water	13-DEC-2004 22:33	1.0	0.025	1		1		
020	348_020	SAMPLE	176441-001	97370	Water	13-DEC-2004 23:06	1.0	0.02475	1		1		
021	348_021	SAMPLE	176441-002	97370	Water	13-DEC-2004 23:40	1.0	0.02404	1		1		
022	348_022	SAMPLE	176441-003	97370	Water	14-DEC-2004 00:13	1.0	0.02451	1		1		
023	348_023	SAMPLE	176441-004	97370	Water	14-DEC-2004 00:46	1.0	0.02427	1		1		
024	348_024	SAMPLE	176441-005	97370	Water	14-DEC-2004 01:20	1.0	0.025	1		1		
026	348_026	X	ccv			14-DEC-2004 02:26	1.0					10	
027	348_027	CCV	pcb500_100			14-DEC-2004 02:59	1.0	1.0	1		1	10	
028	348_028	CCV	ar1254			14-DEC-2004 03:33	1.0	1.0			1	9	
029	348_029	X	ccv			14-DEC-2004 04:06	1.0					9	
031	348_031	SAMPLE	176336-004	97182	Water	14-DEC-2004 05:12	1.0	0.02778	1		1		
032	348_032	SAMPLE	176305-003	97182	Water	14-DEC-2004 05:46	1.0	0.025	1		1		
033	348_033	SAMPLE	176305-004	97182	Water	14-DEC-2004 06:19	1.0	0.025	1		1		
034	348_034	SAMPLE	176305-005	97182	Water	14-DEC-2004 06:52	1.0	0.025	2		1		2:PCB101=2233.75
035	348_035	SAMPLE	176332-001	97182	Water	14-DEC-2004 07:25	1.0	0.02358	1		1		
037	348_037	CCV	pcb250_50			14-DEC-2004 08:32	1.0	1.0	1		1	11	
038	348_038	X	ccv			14-DEC-2004 09:05	1.0					11	

Stds used: 1=04WS2273 2=04WS2274 3=04WS2275 4=04WS1789 5=04WS1790 6=04WS2276 7=04WS2277 8=04WS1609 9=04WS2184 10=04WS2064 11=04WS2130 12=04WS2370 13=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204501936 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
039	348_039	CCV	ar1254			14-DEC-2004 09:38	1.0	1.0			1	9	
040	348_040	X	ccv			14-DEC-2004 10:12	1.0					9	
042	348_042	SAMPLE	176331-001	97177	Water	14-DEC-2004 11:18	1.0	0.001572	1		1		
043	348_043	SAMPLE	176331-003	97177	Water	14-DEC-2004 11:52	1.0	0.001572	1		1		
044	348_044	SAMPLE	176331-004	97177	Water	14-DEC-2004 12:25	1.0	0.001572	1		1		
045	348_045	SAMPLE	176331-005	97177	Water	14-DEC-2004 12:58	1.0	0.001582	1		1		
046	348_046	SAMPLE	176331-006	97177	Water	14-DEC-2004 13:31	1.0	0.001587	1		1		
047	348_047	SAMPLE	176331-007	97177	Water	14-DEC-2004 14:05	1.0	0.001587	1	2	1		
048	348_048	SAMPLE	176331-008	97177	Water	14-DEC-2004 14:38	1.0	0.001577	1		1		
049	348_049	SAMPLE	176331-009	97177	Water	14-DEC-2004 15:11	1.0	0.001572	1		1		
050	348_050	SAMPLE	176331-010	97177	Water	14-DEC-2004 15:44	1.0	0.001572	1		1		
052	348_052	CCV	pcb500_100			14-DEC-2004 16:51	1.0	1.0	1		1	10	
054	348_054	CCV	ar1254			14-DEC-2004 17:58	1.0	1.0			1	9	
055	348_055	X	ccv			14-DEC-2004 18:31	1.0					9	
057	348_057	BLANK	QC275528	97288	Soil	14-DEC-2004 19:40	1.0	0.8319	1		1		
058	348_058	LCS	QC275529	97288	Soil	14-DEC-2004 20:13	1.0	0.8292	1		1		
059	348_059	SAMPLE	176469-001	97370	Water	14-DEC-2004 20:47	1.0	0.02427	1		1		
060	348_060	SAMPLE	176469-002	97370	Water	14-DEC-2004 21:20	1.0	0.02427	1		1		
061	348_061	SAMPLE	176358-003	97182	Water	14-DEC-2004 21:53	1.0	0.02451	1		1		
062	348_062	SAMPLE	176476-001	97288	Soil	14-DEC-2004 22:27	1.0	0.8245	1		1		
063	348_063	SAMPLE	176476-002	97288	Soil	14-DEC-2004 23:00	1.0	0.8331	1		1		
064	348_064	MSS	176463-017	97288	Soil	14-DEC-2004 23:33	1.0	0.8251	1		1		
065	348_065	MS	QC275530	97288	Soil	15-DEC-2004 00:06	1.0	0.8308	1		1		
066	348_066	MSD	QC275531	97288	Soil	15-DEC-2004 00:40	1.0	0.8333	1		1		
068	348_068	CCV	pcb250_50			15-DEC-2004 01:47	1.0	1.0	1		1	11	
069	348_069	X	ccv			15-DEC-2004 02:20	1.0					11	
070	348_070	CCV	ar1254			15-DEC-2004 02:53	1.0	1.0			1	12	
071	348_071	X	ccv			15-DEC-2004 03:26	1.0					12	
072	348_072	X	ccv			15-DEC-2004 04:00	1.0					13	
073	348_073	CCV	ar1248			15-DEC-2004 04:33	1.0	1.0			1	13	
075	348_075	SAMPLE	176358-004	97182	Water	15-DEC-2004 05:40	1.0	0.02941	1		1		

Stds used: 1=04WS2273 2=04WS2274 3=04WS2275 4=04WS1789 5=04WS1790 6=04WS2276 7=04WS2277 8=04WS1609 9=04WS2184 10=04WS2064 11=04WS2130 12=04WS2370 13=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204501936 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 13-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
076	348_076	SAMPLE	176397-003	97182	Water	15-DEC-2004 06:13	1.0	0.02404	1	2	1		
077	348_077	SAMPLE	176397-004	97182	Water	15-DEC-2004 06:47	1.0						
078	348_078	SAMPLE	176508-001	97288	Soil	15-DEC-2004 07:20	1.0	0.8284	1		1		
079	348_079	SAMPLE	176508-002	97288	Soil	15-DEC-2004 07:53	1.0	0.8395	1		1		
080	348_080	SAMPLE	176508-003	97288	Soil	15-DEC-2004 08:27	1.0	0.8235	1		1		
081	348_081	SAMPLE	176508-004	97288	Soil	15-DEC-2004 09:00	1.0	0.8469	1		1		
082	348_082	SAMPLE	176508-005	97288	Soil	15-DEC-2004 09:34	1.0	0.8275	1		1		
083	348_083	SAMPLE	176508-006	97288	Soil	15-DEC-2004 10:07	1.0	0.8273	1		1		
084	348_084	SAMPLE	176508-007	97288	Soil	15-DEC-2004 10:41	1.0	0.8457	1		1		
086	348_086	CCV	pcb500_100			15-DEC-2004 11:49	1.0	1.0	1		1	10	
087	348_087	X	ccv			15-DEC-2004 12:29	1.0					12	
088	348_088	CCV	ar1254			15-DEC-2004 13:08	1.0	1.0			1	12	
089	348_089	CCV	ar1248			15-DEC-2004 13:45	1.0	1.0			1	13	
091	348_091	SAMPLE	176397-004	97182	Water	15-DEC-2004 15:00	1.0	0.025	2		1		2:PCB101=7075.88
092	348_092	MS	QC275048	97177	Water	15-DEC-2004 15:34	1.0	0.001572	1		1		
093	348_093	MSD	QC275049	97177	Water	15-DEC-2004 16:07	1.0	0.001577	1	1	1		
095	348_095	CCV	pcb250_50			15-DEC-2004 17:14	1.0	1.0	1		1	11	
096	348_096	CCV	ar1254			15-DEC-2004 17:53	1.0	1.0			1	12	

Stds used: 1=04WS2273 2=04WS2274 3=04WS2275 4=04WS1789 5=04WS1790 6=04WS2276 7=04WS2277 8=04WS1609 9=04WS2184 10=04WS2064 11=04WS2130 12=04WS2370 13=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204509147 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 18-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	352_002	CCV	pcb250_50			18-DEC-2004 13:47	1.0	1.0	1		1	1	
003	352_003	CCV	ar1254			18-DEC-2004 14:58	1.0	1.0			1	2	
004	352_004	X	ccv			18-DEC-2004 15:32	1.0					2	
006	352_006	BLANK	QC276052	97421	Soil	18-DEC-2004 16:38	1.0	0.6835	1		1		
007	352_007	LCS	QC276056	97421	Soil	18-DEC-2004 17:11	1.0	0.6821	1		1		
008	352_008	SAMPLE	176497-005	97502	Water	18-DEC-2004 17:44	1.0	0.02381	1	2	1		
009	352_009	SAMPLE	176497-001	97485	Soil	18-DEC-2004 18:18	1.0	0.6676	1		1		
010	352_010	MSS	176550-010	97421	Soil	18-DEC-2004 18:51	1.0	0.6698	1		1		
011	352_011	MSS	176554-001	97597	Soil	18-DEC-2004 19:24	1.0	0.6734	1		1		
012	352_012	MS	QC276057	97421	Soil	18-DEC-2004 19:57	1.0	0.654	1		1		
013	352_013	MSD	QC276058	97421	Soil	18-DEC-2004 20:31	1.0	0.6711	1		1		
014	352_014	MS	QC276748	97597	Soil	18-DEC-2004 21:04	1.0	0.6562	1		1		
015	352_015	MSD	QC276749	97597	Soil	18-DEC-2004 21:37	1.0	0.6716	1		1		
017	352_017	CCV	pcb500_100			18-DEC-2004 22:44	1.0	1.0	1		1	3	
018	352_018	X	ccv			18-DEC-2004 23:17	1.0					3	
019	352_019	CCV	ar1254			18-DEC-2004 23:50	1.0	1.0			1	2	
020	352_020	X	ccv			19-DEC-2004 00:23	1.0					2	
021	352_021	X	hex			19-DEC-2004 00:57	1.0						
022	352_022	SAMPLE	176497-002	97485	Soil	19-DEC-2004 01:30	1.0	0.6631	2		1		
023	352_023	SAMPLE	176497-003	97485	Soil	19-DEC-2004 02:03	1.0	0.6605	2		1		
024	352_024	SAMPLE	176497-008	97485	Soil	19-DEC-2004 02:36	1.0	0.657	8	3	1		8:PCB126=3289.61
025	352_025	SAMPLE	176497-009	97485	Soil	19-DEC-2004 03:09	1.0	0.664	2		1		
026	352_026	SAMPLE	176497-010	97485	Soil	19-DEC-2004 03:43	1.0	0.6609	2		1		
027	352_027	SAMPLE	176497-011	97485	Soil	19-DEC-2004 04:16	1.0	0.6667	2	2	1		
028	352_028	MSS	176497-015	97485	Soil	19-DEC-2004 04:49	1.0	0.6645	2	2	1		
029	352_029	MS	QC276303	97485	Soil	19-DEC-2004 05:22	1.0	0.6579	1	4	1		
030	352_030	MSD	QC276304	97485	Soil	19-DEC-2004 05:55	1.0	0.6676	1	4	1		
032	352_032	CCV	pcb250_50			19-DEC-2004 07:02	1.0	1.0	2		1	1	
033	352_033	X	ccv			19-DEC-2004 07:35	1.0					1	
034	352_034	CCV	ar1254			19-DEC-2004 08:08	1.0	1.0			1	2	
035	352_035	X	ccv			19-DEC-2004 08:42	1.0					2	

Stds used: 1=04WS2130 2=04WS2370 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204509147 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 18-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
037	352_037	SAMPLE	176478-003	97370	Water	19-DEC-2004 09:48	1.0	0.02941	2		1		
038	352_038	SAMPLE	176478-004	97370	Water	19-DEC-2004 10:21	1.0	0.02941	2		1		
039	352_039	SAMPLE	176483-004	97384	Water	19-DEC-2004 10:55	1.0	0.025	2		1		
040	352_040	SAMPLE	176521-003	97502	Water	19-DEC-2004 11:28	1.0	0.025	8	1	1		8:PCB101=5866.54
041	352_041	SAMPLE	176521-008	97502	Water	19-DEC-2004 12:01	1.0	0.02381	2	2	1		
042	352_042	SAMPLE	176575-003	97502	Water	19-DEC-2004 12:34	1.0	0.02778	2		1		
043	352_043	SAMPLE	176565-001	97485	Soil	19-DEC-2004 13:08	1.0	0.6636	2	2	1		
044	352_044	SAMPLE	176497-012	97485	Soil	19-DEC-2004 13:41	1.0	0.6702	5		1		3:PCB126=1438.40
045	352_045	SAMPLE	176497-013	97485	Soil	19-DEC-2004 14:14	1.0	0.6618	10		1		10:PCB101=2046.34
046	352_046	SAMPLE	176497-014	97485	Soil	19-DEC-2004 14:47	1.0	0.6734	2	1	1		
048	352_048	CCV	pcb500_100			19-DEC-2004 15:54	1.0	1.0	1		1	3	
049	352_049	X	ccv			19-DEC-2004 16:27	1.0					3	
050	352_050	CCV	ar1254			19-DEC-2004 17:01	1.0	1.0			1	2	
051	352_051	X	ccv			19-DEC-2004 17:34	1.0					2	
052	352_052	X	ccv			19-DEC-2004 18:07	1.0					4	
053	352_053	CCV	ar1248			19-DEC-2004 18:40	1.0	1.0			1	4	
055	352_055	SAMPLE	176702-001	97597	Soil	19-DEC-2004 19:47	1.0	0.672	1		1		
056	352_056	SAMPLE	176702-002	97597	Soil	19-DEC-2004 20:20	1.0	0.6667	1		1		
057	352_057	SAMPLE	176634-001	97597	Soil	19-DEC-2004 20:54	1.0	0.6707	1		1		
058	352_058	SAMPLE	176634-004	97597	Soil	19-DEC-2004 21:27	1.0	0.6649	1	1	1		
059	352_059	SAMPLE	176521-001	97485	Soil	19-DEC-2004 22:00	1.0	0.6752	1		1		
060	352_060	SAMPLE	176521-002	97485	Soil	19-DEC-2004 22:33	1.0	0.6757	1	2	1		
061	352_061	SAMPLE	176521-004	97485	Soil	19-DEC-2004 23:07	1.0	0.6649	1		1		
062	352_062	SAMPLE	176521-005	97485	Soil	19-DEC-2004 23:40	1.0	0.6623	1		1		
063	352_063	SAMPLE	176521-006	97485	Soil	20-DEC-2004 00:13	1.0	0.6645	1		1		
064	352_064	SAMPLE	176550-001	97421	Soil	20-DEC-2004 00:47	10.0	0.6553	7		1		9:PCB101=4086.12
066	352_066	X	ccv			20-DEC-2004 01:53	1.0					1	
067	352_067	CCV	pcb250_50			20-DEC-2004 02:27	1.0	1.0	1		1	1	
068	352_068	CCV	ar1254			20-DEC-2004 03:00	1.0	1.0			1	2	
069	352_069	X	ccv			20-DEC-2004 03:33	1.0					2	
070	352_070	X	ccv			20-DEC-2004 04:07	1.0					4	

Stds used: 1=04WS2130 2=04WS2370 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204509147 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 18-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
071	352_071	CCV	ar1248			20-DEC-2004 04:40	1.0	1.0			1	4	
073	352_073	SAMPLE	176550-002	97421	Soil	20-DEC-2004 05:47	20.0						
074	352_074	SAMPLE	176550-003	97421	Soil	20-DEC-2004 06:20	10.0	0.651			1		
075	352_075	SAMPLE	176550-004	97421	Soil	20-DEC-2004 06:53	20.0	0.6592			1		
076	352_076	SAMPLE	176550-005	97421	Soil	20-DEC-2004 07:26	1.0	0.6523	1		1		
077	352_077	SAMPLE	176550-006	97421	Soil	20-DEC-2004 08:00	100.0						
078	352_078	SAMPLE	176550-007	97421	Soil	20-DEC-2004 08:33	1.0	0.6588	1		1		
079	352_079	SAMPLE	176550-008	97421	Soil	20-DEC-2004 09:06	1.0	0.668	1		1		
080	352_080	SAMPLE	176550-009	97421	Soil	20-DEC-2004 09:40	1.0	0.6689	1	1	1		
081	352_081	SAMPLE	176550-011	97421	Soil	20-DEC-2004 10:13	10.0	0.668			1		
082	352_082	SAMPLE	176550-012	97421	Soil	20-DEC-2004 10:47	10.0	0.684			1		
084	352_084	CCV	pcb500_100			20-DEC-2004 12:14	1.0	1.0	1		1	3	
085	352_085	CCV	ar1254			20-DEC-2004 13:13	1.0	1.0			1	2	
086	352_086	CCV	ar1248			20-DEC-2004 13:47	1.0	1.0			1	4	
088	352_088	BLANK	QC276835	97616	Water	20-DEC-2004 14:56	1.0	0.025	1		1		
089	352_089	BS	QC276836	97616	Water	20-DEC-2004 15:29	1.0	0.025	1		1		
090	352_090	BSD	QC276837	97616	Water	20-DEC-2004 16:03	1.0	0.025	1		1		
091	352_091	SAMPLE	176721-001	97616	Water	20-DEC-2004 16:36	1.0	0.02778	1		1		
092	352_092	SAMPLE	176680-002	97597	Soil	20-DEC-2004 17:15	1.0	0.6711	1		1		
094	352_094	SAMPLE	176497-008	97485	Soil	20-DEC-2004 20:50	5.0						
095	352_095	SAMPLE	176497-013	97485	Soil	20-DEC-2004 21:23	10.0						
096	352_096	SAMPLE	176550-001	97421	Soil	20-DEC-2004 21:56	10.0						
097	352_097	SAMPLE	176550-006	97421	Soil	20-DEC-2004 22:30	100.0						
099	352_099	CCV	pcb250_50			20-DEC-2004 23:36	1.0					1	
100	352_100	X	ccv			21-DEC-2004 00:09	1.0					1	
101	352_101	CCV	ar1254			21-DEC-2004 00:43	1.0					2	
102	352_102	X	ccv			21-DEC-2004 01:16	1.0					2	
103	352_103	CCV	ar1248			21-DEC-2004 01:49	1.0					4	
104	352_104	X	ccv			21-DEC-2004 02:23	1.0					4	
106	352_106	SAMPLE	176695-001	97616	Water	21-DEC-2004 03:29	1.0	0.025	1		1		
117	352_117	CCV	pcb500_100			21-DEC-2004 09:35	1.0					3	

Stds used: 1=04WS2130 2=04WS2370 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 204509147 Instrument: GC06 Gas Chromatograph #6 ECD Begun: 18-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
118	352_118	X	ccv			21-DEC-2004 10:09	1.0				3	

65

Stds used: 1=04WS2130 2=04WS2370 3=04WS2064 4=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 824513362 Instrument: GC25 Gas Chromatograph #25 ECD Begun: 21-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	356_001	X	primer			21-DEC-2004 12:02	1.0						
002	356_002	X	primer			21-DEC-2004 12:31	1.0						
003	356_003	X	primer			21-DEC-2004 12:59	1.0						
004	356_004	X	primer			21-DEC-2004 13:37	1.0						
005	356_005	X	primer			21-DEC-2004 14:05	1.0						
006	356_006	X	hex			21-DEC-2004 14:34	1.0						
007	356_007	X	hex			21-DEC-2004 15:02	1.0						
008	356_008	ICAL	pcb10_2			21-DEC-2004 18:39	1.0	1.0				1	
009	356_009	ICAL	pcb25_5			21-DEC-2004 19:07	1.0	1.0				2	
010	356_010	ICAL	pcb100_20			21-DEC-2004 19:36	1.0	1.0				3	
011	356_011	ICAL	pcb250_50			21-DEC-2004 20:04	1.0	1.0				4	
012	356_012	ICAL	pcb500_100			21-DEC-2004 20:33	1.0	1.0				5	
013	356_013	ICAL	pcb750_150			21-DEC-2004 21:01	1.0	1.0				6	
014	356_014	ICAL	pcb1K_200			21-DEC-2004 21:30	1.0	1.0				7	
016	356_016	X	icv			21-DEC-2004 22:27	1.0					8	
017	356_017	ICV	accu_1660			21-DEC-2004 22:55	1.0	1.0			1	8	
018	356_018	CCV	ar1254			21-DEC-2004 23:24	1.0	1.0			1	9	
019	356_019	X	ccv			21-DEC-2004 23:52	1.0					9	
021	356_021	SAMPLE	176695-001	97616	Water	22-DEC-2004 13:19	1.0	0.025	1		1		
023	356_023	X	ccv			22-DEC-2004 15:07	1.0					10	
024	356_024	CCV	pcb500_100			22-DEC-2004 15:39	1.0	1.0	1		1	10	
025	356_025	CCV	ar1254			22-DEC-2004 16:09	1.0	1.0			1	11	

Stds used: 1=04WS2273 2=04WS2274 3=04WS2275 4=04WS1789 5=04WS1790 6=04WS2276 7=04WS2277 8=04WS1609 9=04WS2184 10=04WS2064 11=04W

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 824524871 Instrument: GC25 Gas Chromatograph #25 ECD Begun: 29-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	364_002	CCV	pcb250_50			29-DEC-2004 11:51	1.0	1.0			1	1	
003	364_003	CCV	ar1254			29-DEC-2004 12:35	1.0	1.0			1	2	
005	364_005	BLANK	QC277631	97823	Water	29-DEC-2004 13:38	1.0	0.025			1		
006	364_006	BLANK	QC277673	97834	Soil	29-DEC-2004 14:07	1.0	0.6662			1		
007	364_007	BS	QC277632	97823	Water	29-DEC-2004 14:35	1.0	0.025			1		
008	364_008	BSD	QC277633	97823	Water	29-DEC-2004 15:04	1.0	0.025			1		
009	364_009	LCS	QC277674	97834	Soil	29-DEC-2004 15:32	1.0	0.684			1		
010	364_010	SAMPLE	176829-001	97823	Water	29-DEC-2004 16:01	1.0	0.025			1		
011	364_011	SAMPLE	176847-001	97834	Soil	29-DEC-2004 16:29	1.0	0.6545			1		
012	364_012	MSS	176850-001	97834	Soil	29-DEC-2004 16:58	1.0	0.6821		1	1		
013	364_013	SAMPLE	176774-001	97834	Soil	29-DEC-2004 17:26	1.0	0.6689			1		
014	364_014	SAMPLE	176773-001	97834	Soil	29-DEC-2004 17:55	1.0	0.668			1		
016	364_016	CCV	pcb500_100			29-DEC-2004 18:52	1.0	1.0			1	3	
017	364_017	X	ccv			29-DEC-2004 19:20	1.0					3	
018	364_018	X	ar1254			29-DEC-2004 19:49	1.0					2	
019	364_019	CCV	ccv			29-DEC-2004 20:17	1.0	1.0			1	2	
020	364_020	ICAL	ar1248			29-DEC-2004 20:46	1.0	1.0				4	
021	364_021	X	ccv			29-DEC-2004 21:14	1.0					4	
023	364_023	BLANK	QC276746	97597	Soil	29-DEC-2004 22:11	1.0	0.6605			1		
024	364_024	LCS	QC276747	97597	Soil	29-DEC-2004 22:40	1.0	0.6698			1		
025	364_025	MSS	176554-001	97597	Soil	29-DEC-2004 23:08	1.0	0.6734			1		
026	364_026	SAMPLE	176554-002	97597	Soil	29-DEC-2004 23:37	1.0	0.6623			1		
027	364_027	SAMPLE	176695-001	97616	Water	30-DEC-2004 00:05	1.0	0.025			1		
028	364_028	SAMPLE	176497-008	97485	Soil	30-DEC-2004 00:34	5.0	0.657	5	1	1		7:PCB126=2758.63
029	364_029	SAMPLE	176497-013	97485	Soil	30-DEC-2004 01:02	10.0	0.6618			1		
030	364_030	SAMPLE	176550-001	97421	Soil	30-DEC-2004 01:31	10.0	0.6553	2		1		4:PCB101=1254.93
031	364_031	SAMPLE	176550-002	97421	Soil	30-DEC-2004 01:59	50.0	0.6863	2		1		4:PCB101=1599.46
032	364_032	SAMPLE	176550-006	97421	Soil	30-DEC-2004 02:28	10.0	0.6725			1		
034	364_034	CCV	pcb250_50			30-DEC-2004 03:25	1.0	1.0			1	1	
035	364_035	X	ccv			30-DEC-2004 03:53	1.0					1	
036	364_036	CCV	ar1254			30-DEC-2004 04:22	1.0	1.0			1	2	

Stds used: 1=04WS2130 2=04WS2370 3=04WS1790 4=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 824524871 Instrument: GC25 Gas Chromatograph #25 ECD Begun: 29-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
037	364_037	X	ccv			30-DEC-2004 04:50	1.0					2	
038	364_038	X	ar1248			30-DEC-2004 09:36	1.0					4	
039	364_039	CCV	ccv			30-DEC-2004 10:04	1.0	1.0			1	4	
040	364_040	X	hex			30-DEC-2004 11:30	1.0						
041	364_041	SAMPLE	176670-001	97597	Soil	30-DEC-2004 12:42	1.0	0.6707			1		
042	364_042	SAMPLE	176670-002	97597	Soil	30-DEC-2004 13:10	1.0	0.6579			1		
043	364_043	SAMPLE	176670-003	97597	Soil	30-DEC-2004 13:39	1.0	0.6579			1		
044	364_044	SAMPLE	176670-004	97597	Soil	30-DEC-2004 14:07	1.0	0.6757			1		
045	364_045	SAMPLE	176670-005	97597	Soil	30-DEC-2004 14:36	1.0	0.668			1		
046	364_046	SAMPLE	176670-006	97597	Soil	30-DEC-2004 15:04	1.0	0.6649			1		
047	364_047	MS	QC277675	97834	Soil	30-DEC-2004 15:33	1.0	0.6684			1		
048	364_048	MSD	QC277676	97834	Soil	30-DEC-2004 16:01	1.0	0.6596			1		2:PCB101=4997.30
049	364_049	MS	QC276748	97597	Soil	30-DEC-2004 16:30	1.0	0.6562			1		
050	364_050	MSD	QC276749	97597	Soil	30-DEC-2004 17:58	1.0	0.6716			1		
052	364_052	CCV	pcb500_100			30-DEC-2004 18:55	1.0	1.0			1	3	
053	364_053	X	ccv			30-DEC-2004 19:23	1.0					3	
054	364_054	CCV	ar1254			30-DEC-2004 19:52	1.0	1.0			1	2	
055	364_055	X	ccv			30-DEC-2004 20:20	1.0					2	
056	364_056	CCV	ar1248			30-DEC-2004 20:49	1.0	1.0			1	4	
057	364_057	X	ccv			30-DEC-2004 21:17	1.0					4	
058	364_058	X	hex			30-DEC-2004 21:46	1.0						
059	364_059	BLANK	QC277941	97903	Water	30-DEC-2004 22:14	1.0	0.025			1		
060	364_060	BLANK	QC277933	97901	Soil	30-DEC-2004 22:43	1.0	0.6658		1	1		
061	364_061	BS	QC277942	97903	Water	30-DEC-2004 23:11	1.0	0.025			1		
062	364_062	BSD	QC277943	97903	Water	30-DEC-2004 23:40	1.0	0.025		1	1		
063	364_063	LCS	QC277934	97901	Soil	31-DEC-2004 00:08	1.0	0.664		1	1		
064	364_064	SAMPLE	176896-001	97901	Soil	31-DEC-2004 00:37	10.0	0.6609			1		
065	364_065	SAMPLE	176794-001	97901	Soil	31-DEC-2004 01:05	1.0	0.6636	2		1		3:PCB101=18119.5
066	364_066	MSS	176772-013	97901	Soil	31-DEC-2004 01:34	1.0	0.6583			1		
067	364_067	MS	QC277935	97901	Soil	31-DEC-2004 02:02	1.0	0.6645			1		
068	364_068	MSD	QC277936	97901	Soil	31-DEC-2004 02:31	1.0	0.6658		2	1		2:PCB101=3079.42

Stds used: 1=04WS2130 2=04WS2370 3=04WS1790 4=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 824524871 Instrument: GC25 Gas Chromatograph #25 ECD Begun: 29-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
070	364_070	X	pcb250_50			31-DEC-2004 03:28	1.0					1	
071	364_071	CCV	ccv			31-DEC-2004 03:56	1.0	1.0			1	1	
072	364_072	CCV	ar1254			31-DEC-2004 04:25	1.0	1.0			1	2	
073	364_073	X	ccv			31-DEC-2004 04:53	1.0					2	
074	364_074	CCV	ar1248			31-DEC-2004 05:22	1.0	1.0			1	4	
075	364_075	X	ccv			31-DEC-2004 05:50	1.0					4	
077	364_077	SAMPLE	176497-008	97485	Soil	31-DEC-2004 06:47	20.0	0.657			1		
078	364_078	SAMPLE	176705-001	97695	Water	31-DEC-2004 07:16	1.0	0.02358		2	1		
079	364_079	SAMPLE	176705-002	97695	Water	31-DEC-2004 07:44	1.0	0.02358			1		
080	364_080	SAMPLE	176705-003	97695	Water	31-DEC-2004 08:13	1.0	0.02358		2	1		
081	364_081	SAMPLE	176705-004	97695	Water	31-DEC-2004 08:41	1.0	0.025		2	1		
082	364_082	SAMPLE	176856-001	97903	Water	31-DEC-2004 09:10	1.0	0.02358		1	1		
083	364_083	SAMPLE	176856-002	97903	Water	31-DEC-2004 09:38	1.0	0.02358		1	1		
084	364_084	SAMPLE	176856-003	97903	Water	31-DEC-2004 10:07	1.0	0.02358		1	1		
085	364_085	SAMPLE	176856-004	97903	Water	31-DEC-2004 10:35	1.0	0.02358			1		
086	364_086	SAMPLE	176856-005	97903	Water	31-DEC-2004 11:04	1.0	0.02358		1	1		
088	364_088	CCV	pcb500_100			31-DEC-2004 12:01	1.0	1.0			1	3	
089	364_089	X	ccv			31-DEC-2004 12:29	1.0					3	
090	364_090	CCV	ar1254			31-DEC-2004 12:58	1.0	1.0			1	2	
091	364_091	X	ccv			31-DEC-2004 13:26	1.0					2	
095	364_095	?SAMPLE	175502-005	97917		31-DEC-2004 15:20	1.0						
096	364_096	?SAMPLE	175502-006	97917		31-DEC-2004 15:49	1.0						
097	364_097	?SAMPLE	175502-007	97917		31-DEC-2004 16:17	1.0						
098	364_098	?SAMPLE	175502-008	97917		31-DEC-2004 16:46	1.0						
099	364_099	SAMPLE	176615-001	97597	Soil	31-DEC-2004 17:14	1.0						
100	364_100	SAMPLE	176726-001	97695	Water	31-DEC-2004 17:43	1.0						
101	364_101	SAMPLE	176726-002	97695	Water	31-DEC-2004 18:11	1.0						
102	364_102	SAMPLE	176734-003	97695	Water	31-DEC-2004 18:40	1.0						
103	364_103	SAMPLE	176796-001	97823	Water	31-DEC-2004 19:08	1.0						
105	364_105	X	pcb250_50			31-DEC-2004 20:05	1.0					1	
106	364_106	CCV	ccv			31-DEC-2004 20:34	1.0	1.0	3		1	1	

Stds used: 1=04WS2130 2=04WS2370 3=04WS1790 4=04WS1542

SEQUENCE SUMMARY FOR 176702 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 824524871 Instrument: GC25 Gas Chromatograph #25 ECD Begun: 29-DEC-2004
Analytical Method: EPA 8082 SOP Version: PCB_rv3

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
107	364_107	CCV	ar1254			31-DEC-2004 21:02	1.0	1.0	1		1	2	
108	364_108	X	ccv			31-DEC-2004 21:31	1.0					2	
116	364_116	SAMPLE	176772-005	97901	Soil	01-JAN-2005 18:04	1.0						
123	364_123	CCV	pcb500_100			01-JAN-2005 21:24	1.0	1.0			1	3	
124	364_124	X	ccv			01-JAN-2005 21:52	1.0					3	
125	364_125	CCV	ar1254			01-JAN-2005 22:21	1.0	1.0			1	2	
126	364_126	X	ccv			01-JAN-2005 22:49	1.0					2	
127	364_127	CCV	ar1248			01-JAN-2005 23:18	1.0	1.0			1	4	
128	364_128	X	ccv			01-JAN-2005 23:46	1.0					4	
130	364_130	SAMPLE	176772-011	97901	Soil	02-JAN-2005 00:43	1.0	0.6579	1		1		2:PCB101=2120.31
131	364_131	SAMPLE	176772-012	97901	Soil	02-JAN-2005 01:12	1.0						
132	364_132	SAMPLE	176772-014	97901	Soil	02-JAN-2005 01:40	1.0						
133	364_133	SAMPLE	176772-015	97901	Soil	02-JAN-2005 02:09	1.0						
134	364_134	SAMPLE	176772-016	97901	Soil	02-JAN-2005 02:37	1.0						
136	364_136	CCV	pcb250_50			02-JAN-2005 03:34	1.0	1.0			1	1	
137	364_137	X	ccv			02-JAN-2005 04:03	1.0					1	
138	364_138	CCV	ar1254			02-JAN-2005 04:31	1.0	1.0			1	2	
139	364_139	X	ccv			02-JAN-2005 05:00	1.0					2	
140	364_140	CCV	ar1248			02-JAN-2005 05:28	1.0	1.0			1	4	
141	364_141	X	ccv			02-JAN-2005 05:57	1.0					4	

Stds used: 1=04WS2130 2=04WS2370 3=04WS1790 4=04WS1542

Curtis & Tompkins, Ltd.

Reporting Summary for 176702 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176702-001	Aroclor-1016	GC06	A	12/19/04 19:47
176702-001	Aroclor-1221	GC06	A	12/19/04 19:47
176702-001	Aroclor-1232	GC06	A	12/19/04 19:47
176702-001	Aroclor-1242	GC06	A	12/19/04 19:47
176702-001	Aroclor-1248	GC06	A	12/19/04 19:47
176702-001	Aroclor-1254	GC06	A	12/19/04 19:47
176702-001	Aroclor-1260	GC06	A	12/19/04 19:47
176702-001	TCMX	GC06	A	12/19/04 19:47
176702-001	Decachlorobiphenyl	GC06	A	12/19/04 19:47
176702-002	Aroclor-1016	GC06	A	12/19/04 20:20
176702-002	Aroclor-1221	GC06	A	12/19/04 20:20
176702-002	Aroclor-1232	GC06	A	12/19/04 20:20
176702-002	Aroclor-1242	GC06	A	12/19/04 20:20
176702-002	Aroclor-1248	GC06	A	12/19/04 20:20
176702-002	Aroclor-1254	GC06	A	12/19/04 20:20
176702-002	Aroclor-1260	GC06	A	12/19/04 20:20
176702-002	TCMX	GC06	A	12/19/04 20:20
176702-002	Decachlorobiphenyl	GC06	A	12/19/04 20:20
QC276746	Aroclor-1016	GC25	B	12/29/04 22:11
QC276746	Aroclor-1221	GC25	A	12/29/04 22:11
QC276746	Aroclor-1232	GC25	A	12/29/04 22:11
QC276746	Aroclor-1242	GC25	A	12/29/04 22:11
QC276746	Aroclor-1248	GC25	A	12/29/04 22:11
QC276746	Aroclor-1254	GC25	B	12/29/04 22:11
QC276746	Aroclor-1260	GC25	B	12/29/04 22:11
QC276746	TCMX	GC25	B	12/29/04 22:11
QC276746	Decachlorobiphenyl	GC25	B	12/29/04 22:11
QC276747	Aroclor-1254	GC25	B	12/29/04 22:40
QC276747	TCMX	GC25	B	12/29/04 22:40
QC276747	Decachlorobiphenyl	GC25	B	12/29/04 22:40
QC276748	Aroclor-1254	GC25	B	12/30/04 16:30
QC276748	TCMX	GC25	B	12/30/04 16:30
QC276748	Decachlorobiphenyl	GC25	B	12/30/04 16:30
QC276749	Aroclor-1254	GC25	B	12/30/04 17:58
QC276749	TCMX	GC25	B	12/30/04 17:58
QC276749	Decachlorobiphenyl	GC25	B	12/30/04 17:58

Curtis & Tompkins Laboratories Sample Preparation Summary 17-DEC-2004 16:13

Batch Number : 97597
Date Extracted: 17-DEC-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2225C
Spike #2 ID : 04WS2341A
Spike #3 ID :
SOP Version : PCB-ASE_rv0

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176554-001			CH2M Hill Constructors Inc.	Soil	14.85	g	10	0.673401	1		.025	0		PCB	3665A	MSS
176554-002			CH2M Hill Constructors Inc.	Soil	15.1	g	10	0.662252	1		.025	0		PCB	3665A	
176615-001			URS Corporation	Soil	15.12	g	10	0.661376	1		.025	0		PCB	3665A	
176634-001			Iris Environmental	Soil	14.91	g	10	0.670691	1		.025	0		PCB	3665A	
176634-004			Iris Environmental	Soil	15.04	g	10	0.664894	1		.025	0		PCB	3665A	
176670-001			URS Corporation	Soil	14.91	g	10	0.670691	1		.025	0		PCB	3665A	
176670-002			URS Corporation	Soil	15.2	g	10	0.657895	1		.025	0		PCB	3665A	
176670-003			URS Corporation	Soil	15.2	g	10	0.657895	1		.025	0		PCB	3665A	
176670-004			URS Corporation	Soil	14.8	g	10	0.675676	1		.025	0		PCB	3665A	
176670-005			URS Corporation	Soil	14.97	g	10	0.668003	1		.025	0		PCB	3665A	
176670-006			URS Corporation	Soil	15.04	g	10	0.664894	1		.025	0		PCB	3665A	
176680-002			Montezuma Wetlands LLC	Soil	14.9	g	10	0.671141	1		.025	0		PCB	3665A	
176702-001			Treadwell & Rollo	Soil	14.88	g	10	0.672043	1		.025	0		PCB	3665A	
176702-002			Treadwell & Rollo	Soil	15	g	10	0.666667	1		.025	0		PCB	3665A	
QC276746	MB			Soil	15.14	g	10	0.660502	1		.025	0		PCB	3665A	
QC276747	LCS			Soil	14.93	g	10	0.669792	1		.025	.025		PCB	3665A	
QC276748	MS	of 176554-001		Soil	15.24	g	10	0.656168	1		.025	.025		PCB	3665A	
QC276749	MSD	of 176554-001		Soil	14.89	g	10	0.671592	1		.025	.025		PCB	3665A	

Prep Chemist: JRD for JOM 12/17/04 Reviewed By: Jennifer [illegible] Date: 12/17/04

Relinquished By: JRD for AMS 12/17/04 Received By: [illegible] Date: 12/20/04

Curtis & Tompkins, Ltd.

PCB 8082 SOIL PREP LOG

LIMS Batch No: 97597
LIMS Analysis PCB
Extracted by: JDM
Date Extracted: 17 Dec 04

☒ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☒ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
1760554-001C	14.85	10.0	MSS
↓ -002B	15.10	↓	
1760615-001A	15.12		
1760634-001 ↓	14.91		
↓ -004	15.04		
1760680-002	14.90		
1760702-001	14.88		
↓ -002	15.00		
MB QC276746	15.14		
LCS 47	14.93		
MS 48	15.24		
MSD ↓ 49	14.89		
1760670-001A	14.91		
-002	15.20		
-003	15.20		
-004	14.80		
-005	14.97		
↓ -006 ↓	15.04	↓	

	Mfg & Lot # / LIMS # / Time	Initials / Date
Sand weighed out for QC samples	EM44258	JDM 17Dec04
dried with CH_2Cl_2-rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth	Dionex 040603	↓
0.025 mL of surrogate solution was added to all samples	04WS2225C	
0.025 mL of spike solution 1254 was added to all spikes	04WS2341A	
1:1 CH_2Cl_2 (lot# EM44259):Acetone(lot# EM44479) was added to all	✓	
☐ sonicated 3 times w/ ≥100mL ☒ PFE extracted ☐ soxhlet extracted	✓	
ASE Cellulose Filters used:	Whatman D28	
PFE (ASE) / soxhlets on at:	N/A	
PFE (ASE) / soxhlets off at:	↓	↓
Extracts filtered through baked, CH_2Cl_2-rinsed granular Na_2SO_4	N/A	AMS 12/17/04
Concentrated to volumes noted above after exchange to Hexane Lot#	CM623	
EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot#	JTB430036	
Centrifuged for 1 min; 10mL transferred to labelled vial	✓	↓

Jessie Mee 17 Dec 04
Extraction Chemist / Date

Continued from page ____
Continued on page ____

Jennifer L Dell 12/17/04
Reviewed by / Date

Project SOUTHAMPTON BA2032

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176615-001A	30.28	8270-SIM	MSS
MS	30.09		
MSD	29.80		
LCS	29.85		EM4402842J
MB	30.24		
176614-001A	50.10	TEH	MSS
MS	49.84		
MSD	50.05		
LCS	50.09		EM4402842J
MB	49.95		
176559-001A	5.23	TEH	
-002	49.98		
176554-001C	14.85	PCB	MSS
-002B	15.10		
MS	15.24		176554-001C
MSD	14.89		
LCS	14.93		EM4402842J
MB	15.14		
176559-005	50.06	TEHM	4, COMP 1A-4A
-010	50.06		6A-9A
-020	49.91		16A-19A
176554-001A	30.49	8100	MSS also 176536-001A
-002	30.00		-002
-003	29.92		-003
MS	30.00		176536-001A
MSD	30.00		
LCS	30.27		EM4402842
MB	30.09		
176653-013	29.85	8270	NOT ENOUGH SAMPLE
-015	29.82		FOR MS/MSD
-016	30.22		
-018	30.28		
-019	29.79		
BS	30.40		EM4402842J
BSD	30.16		
MB	29.84		

Continued on Page

Read and Understood By

Michelle Curtis — Signed

12/15/04 — Date

Signed

Date

Project SOIL ALIQUOT BK2032 85

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176639-001A	50.08	TEHM	
-002	50.25		
-003	50.18		MSS
-004	49.62		
-005	50.07		
-006	50.15		
MS	49.88		176639-003A
MSD	50.25		↓
LCS	49.69		CMC4(0)P421
MB	49.76		↓
176642-001A	30.34	8270-SIM	aka. 176199-001A
MS	30.41		extracted past
MSD	30.08		hold
LCS	29.93		
MB	30.36		
176615-001A	15.12	PCB	
MS	15.06		
MSD	15.17		
LCS	14.91		
MB	15.16		

Continued on Page

Read and Understood By

Michelle Cintron 12/15/04 75

Signed Date Signed Date

Project SOIL ALIQUOT BK2032 85

Continued from Page

SAMPLE ID	WEIGHT (g)	ANALYSIS	COMMENTS
176639-001A	50.08	TEHM	
-002	50.25		
-003	50.18		MSS
-004	49.62		
-005	50.07		
-006	50.15		
MS	49.88		176639-003A
MSD	50.25		
LCS	49.69		EM44028421
MB	49.76		
176642-001A	30.34	8270-SIM	aka. 176199-001A,M extracted past hold
MS	30.41		
MSD	30.08		EM44028421
LCS	29.93		
MB	30.36		
176615-001A	15.12	PCB	
MS	15.06		
MSD	15.17		
LCS	14.91		EM44028421
MB	15.16		
176505-001A	15.07	PCB	aka 176345-001A
176557-005A	50.09	TEHM	4, COMP 1A-4A
176634-001A	50.13	TEHM	SILICA GEL
-002	50.05		
-003	50.05		
176634-001A	14.91	PCB	MC 12/15 ~~2, COMP 2A-3A~~
-004	15.04		2, COMP 2A-3A
176634-001A	14.91	8081	MC 12/15
-004	14.96		2, COMP 2A-3A
176644-001	15.09	PCB	4, COMP 1A-D
176644-001	14.91	8081	
MB	15.15		EM44028421
LCS	15.16		

12/15/04

Continued on Page

Read and Understood By

Michelle Curtis 12/15/04 76

Signed Date Signed Date

Project: Soil Aliquot

Continued from Page:

BK2032

Sample ID	Weight (g)	Analysis	Comments
176670-001A	14.91	PCB	
-002	15.20		
-003	15.20		
-004	14.80		
-005	14.97		
-006	15.04		

Continued on Page

Read and Understood By

Signed: Jessie Mae

Date: 17 Dec 04

Signed

Date

Project: Soil Aeration

Continued from Page

BK632

Sample ID	Weight (g)	Analysis	Comments
1706680-002	1490	PCB	4 Comp A-D
1706680-002	1512	8081	✓
MB	15.14		
LCS	14.93		
702-1	14.88		
702-2	15.00		

Continued on Page

Michelle Carter 12/16/04

Signed

Read and Understood By

Project Soil Aliquot BK2032

Continued from Page

Sample ID	Weight (g)	Analysis	Comments
176702-001 A	8081	14.91	
↓ -002	↓	15.19	
176702-001	PCB	14.88	
↓ -002	↓	15.00	

JMS 12/17/04

Continued on Page

Read and Understood By

M Silverberg 12/17/04

Curtis & Tompkins Laboratories
MDL Summary for EPA 8082 Soil 3545

Analyte	Units	GC06 A	GC06 B	GC14B A	GC14B B	GC21 A	GC21 B	GC22 A	GC22 B
Aroclor-1016	ug/Kg	12/19/03 3.9	12/19/03 9.0					04/07/04 2.1	04/07/04 2.7
Aroclor-1221	ug/Kg	04/10/04 18	04/10/04 15			05/13/03 17	05/13/03 21	04/19/04 12	04/19/04 12
Aroclor-1232	ug/Kg	02/18/04 4.0	02/18/04 4.8			04/07/03 4.9	04/07/03 1.7	02/17/04 8.5	02/17/04 8.8
Aroclor-1242	ug/Kg	02/18/04 5.5	02/18/04 5.1	05/04/04 4.1	05/04/04 3.5	07/30/03 5.6	07/30/03 5.1	01/15/04 3.2	01/15/04 1.9
Aroclor-1248	ug/Kg	12/11/03 3.1	12/11/03 3.4			04/08/03 2.0	04/08/03 1.9	01/23/04 3.2	01/23/04 7.8
Aroclor-1254	ug/Kg	11/02/04 4.4	11/02/04 3.7			08/02/03 2.3	08/02/03 2.0	10/30/04 4.0	10/30/04 2.9
Aroclor-1260	ug/Kg	12/19/03 3.9	12/19/03 3.9					04/07/04 2.2	04/07/04 2.5

MOISTURE DATA

Percent Moisture Summary Report

Batch: 97562
Date: 12/17/04
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176615-001	10.9810	19.0651	16.9042	73	27
176687-001	11.0921	18.3858	17.5369	88	12
176687-002	10.9717	18.5006	17.4637	86	14
176687-003	11.0942	17.9865	17.1449	88	12
176701-002	15.5680	22.5076	21.5365	86	14
176701-003	15.3104	22.7605	21.3263	81	19
176701-004	15.2349	22.4677	21.3018	84	16
176701-005	11.1695	19.2092	17.8622	83	17
176702-001	11.1964	18.2151	17.9283	96	4
176702-002	11.3566	18.9109	18.5902	96	4
QC276611	11.0290	18.0934	17.1317	86	14
of 176701-002			RPD:	0.4%	2.8%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97562
Date Started: 16-DEC-2004
Batched by : Rodellio S. Manuel

Analysis : MOISTURE
Bgroup : N/A
Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176615-001		URS Corporation	Soil	MOISTURE	27-DEC-2004
176687-001		MWH	Soil	MOISTURE	22-DEC-2004
176687-002		MWH	Soil	MOISTURE	22-DEC-2004
176687-003		MWH	Soil	MOISTURE	22-DEC-2004
176701-002		Presidio Trust	Soil	MOISTURE	17-DEC-2004
176701-003		Presidio Trust	Soil	MOISTURE	17-DEC-2004
176701-004		Presidio Trust	Soil	MOISTURE	17-DEC-2004
176701-005		Presidio Trust	Soil	MOISTURE	17-DEC-2004
176702-001		Treadwell & Rollo	Soil	MOISTURE	20-DEC-2004
176702-002		Treadwell & Rollo	Soil	MOISTURE	20-DEC-2004
QC276611	SDUP of 176701-002		Soil	MOISTURE	

PROJECT MOISTURE

Notebook No. 2133

Continued From Page φ

12/16/04

97562

~~Sample~~	B.L.	Digit #	Tare wt.	Int. wt.	Fin. wt.	Comments
Blank		B107	11.1363	—	11.1367	
176615-	1	B120	10.9810	19.0651	16.9042	
176687-	1	B123	11.0921	18.3858	17.5369	
	2	B122	10.9717	18.5006	17.4637	
	3	B110	11.0942	17.9865	17.1449	
176701-	2	32	15.5680	22.5076	21.5365	
DUP	2	12A	11.0290	18.0934	17.1317	
	3	1172	15.3104	22.7605	21.3263	
	4	7X	15.2349	22.4677	21.3018	
	5	1V	11.1695	19.2092	17.8622	
176702-	1	X11	11.1964	18.2151	17.9283	end w/ "B"
	2	10	11.3566	18.9109	18.5902	"

OVEN TEMP: 105°C
TIME IN: 5:30 P.M.
TIME OUT: 9:15 A.M.

DIV: 12-17-04

Continued on Page

Read and Understood By

Signed — Date 12-16-04 — Signed — Date 12/17/04

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR 11-1-04 /

°C	DATE	INITIAL		°C	DATE	INITIAL
104°C	11-1-04	RSM		103°C	12-2-04	RSM
103°C	11-2-04	RSM		104°C	12-3-04	RSM
105°C	11-3-04	RSM		104°C	12-6-04	RSM
104°C	11-4-04	RSM		104°C	12-7-04	RSM
105°C	11-5-04	RSM		103°C	12-8-04	RSM
103°C	11-8-04	RSM		104°C	12-9-04	RSM
104	~~11-9-04~~	RSM		105°C	12-10-04	RSM
105°C	11-10-04	RSM		103°C	12-13-04	RSM
105°C	11-11-04	RSM		105°C	12-14-04	RSM
105°C	11-12-04	RSM		104°C	12-15-04	RSM
105°C	11-15-04	RSM		103°C	12-16-04	RSM
105°C	11-16-04	RSM		104°C	12-17-04	RSM
105°C	11-17-04	RSM				
104°C	11-18-04	RSM				
104°C	11-19-04	RSM				
103°C	11-22-04	RSM				
103°C	11-23-04	RSM				
103°C	11-24-04	RSM				
104°C	11-29-04	RSS				
103°C	11-30-04	RSM				
103°C	12-1-04	RSM				

000069

PROJECT METTLER A-E 200 BALANCE Notebook No. 0752

Continued From Page Ø

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	RGM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	RGM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	RGM	35298
11-29-04	0.2000	0.9999	10.0000	50.0003	PPS	35298
11-30-04	0.2001	1.0000	10.0000	50.0002	RGM	35298
12-1-04	0.1999	1.0001	10.0000	50.0004	RGM	35298
12-2-04	0.2000	1.0000	10.0001	50.0003	RGM	35298
12-3-04	0.2000	1.0001	10.0000	50.0003	RGM	35298
12-6-04	0.2001	1.0000	10.0001	50.0002	RGM	35298
12-7-04	0.2000	1.0001	10.0000	50.0004	RGM	35298
12-8-04	0.2000	1.0000	10.0001	50.0003	RGM	35298
12-9-04	0.2001	1.0000	10.0000	50.0003	RGM	35298
12-10-04	0.2000	1.0001	10.0001	50.0004	RGM	35298
12-13-04	0.2000	1.0000	10.0001	50.0002	RGM	35298
12-14-04	0.2001	1.0001	10.0000	50.0003	RGM	35298
12-15-04	0.2000	1.0000	10.0000	50.0004	RGM	35298
12-16-04	0.2000	1.0001	10.0000	50.0002	RGM	35298
12-17-04	0.1999	1.0000	10.0001	50.0003	RGM	35298

Continued on Page

Read and Understood By

R. Mann 11-22-04

Signed Date Signed Date

Table A-2
Sample Delivery Group Index
Surface Water and Groundwater Data
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Location ID	Sample Date	SDG Number
Baker Beach Disturbed Area 3		
BB3GW100	12/14/2004	176662
BB3PZ101	12/16/2004	176728
BB3SW101	12/17/2004	176728
BB3SW102	12/17/2004	176728
Trip Blanks		
TB0412173A	12/17/2004	176728

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

SDG # 176662A

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
LF4GW103	176662-001
LF4GW104	176662-002
LF4GW105	176662-003
LF4GW106	176662-004
LF5GW102	176662-005
LF5GW103	176662-006
LF5GW104	176662-007
LF10GW100	176662-008
LF10SP01	176662-009
TB1214041A	176662-011
LF10GW100RBSP01	176662-012

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/7/05
Operations Manager

Signature: _____ Date: 1/6/05
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**176662**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**12/15/04**
Samples Received:	**12/15/04**

This hardcopy data package contains sample and QC results for eleven water samples, requested for the above referenced project on 12/15/04. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
High surrogate recovery was observed for trifluorotoluene (FID) in the LCS for batch 97486. High surrogate recovery was observed for trifluorotoluene (FID) in the MS for batch 97486; the parent sample was not a project sample. High surrogate recovery was observed for bromofluorobenzene (FID) in the MS for batch 97486; the parent sample was not a project sample. High surrogate recovery was observed for bromofluorobenzene (FID) in the MSD for batch 97486; the corresponding trifluorotoluene (FID) surrogate recovery was within limits, and the parent sample was not a project sample. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High surrogate recoveries were observed for bromofluorobenzene in a number of samples; no target analytes were detected in these samples. No other analytical problems were encountered.

Pesticides (EPA 8081A):
High ICAL percent RSD (relative standard deviation) was observed for decachlorobiphenyl in the calibration analyzed 12/21/04 22:15; average ICAL %RSD met method requirements, and affected data was qualified with "b". No other analytical problems were encountered.

Polynuclear Aromatics by HPLC (EPA 8310):
No analytical problems were encountered.

Metals (EPA 6020 and EPA 7470A) Water:
No analytical problems were encountered.

Metals (EPA 6020 and EPA 7470A) Filtrate:
High % difference was observed for calcium in the serial dilution of LF4GW103 (lab # 176662-001). No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**176662**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**12/15/04**
Samples Received:	**12/15/04**

Alkalinity (EPA 310.1):

No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):

No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

176662

Treadwell&Rollo

Environmental and Geotechnical Consultant

555 Montgomery Street, Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040/Fax: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

Page ___ of ___

Site Name: Presidio
Job Number: 2893
Project Manager\Cont..ct: David Dixon
Frim & Samplers: BTS | Mike Toll & Morgan Gillion
Recorder (Signature Required): [signature]

Presidio Trust Project or Work Order Number:

Turnaround Time Standard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. of Containers/ Presevation: HCL	H_2SO_4	HNO_3	Other	TPHg (8015m)[1]	TPHd (8015m)[1]	TPHfuel oil (8015m)[1]	VOCs(8260B)	BTEX (8021B)	PAHs(8310)	SVOCs(8270C)	OCPs(8081/8082)	Chlor Herbs (8151A)	Dis. Metals[2] (6010)	Dis. Metals[2] except Hg	TDS (160.1)	Hex Cr (7196A)	Dissolv Pb (7470)	Cyanide (335.2)	Sulfide (376.2)	General Chemistry[3]	Hold	Remarks
-1 LF4GW103	12/14/04	1125			X		3		1	3				X		X				X		X					X		
-2 LF4GW104		1210			X		3		1	3				X		X				X		X					X		
-3 LF4GW105		1255			X		3		1	3				X		X				X		X					X		
-4 LF4GW106		1050			X		3		1	3				X		X				X		X					X		
-5 LF5GW102		1505			X		3		1	4	X	X	X					X		X		X					X		
-6 LF5GW103		1543			X		3		1	4	X	X	X					X		X		X					X		
-7 LF5GW104		1610			X		3		1	4	X	X	X					X		X		X					X		

Notes: [1] Use EPA 3630A Silica Gel Cleanup Step. [2] Dissolved metals: Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Th, Vn, and An. [3] Alkalinity, Bicarbonate, Carbonate, Chloride, Flouride, Nitrate/Nitrite, and Sulfate

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/15/04		[signature]	12/15/04	1045
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Note.:

Method of Shipment ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 1388

174662

Treadwell&Rollo

Environmental and Geotechnical Consultant

555 Montgomery Street, Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040/Fax: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

Page ___ of ___

Site Name: PRESIDIO

Job Number: 2893

Project Manager\Contact: David Dixon

Frim & Samplers: BTS SUCHEUN SUNG

Recorder (Signature Required):

Presidio Trust Project or Work Order Number:

Turnaround Time Standard

Analysis Requested

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. of Containers/ Presevation: HCL	H_2SO_4	HNO_3	Other	TPHg (8015m)[1]	TPHd (8015m)[1]	TPHfuel oil (8015m)[1]	VOCs(8260B)	BTEX (8021B)/MTBE	PAHs(8310)	SVOCs(8270C)	OCP/PCBs(8081/8082)	Chlor Herbs (8151A)	Dis. Metals[2] (6010) (23)	Dis. Metals[2] ~~(6020)~~ (22)	TDS (160.1)	Hex Cr (7196A)	Dissolv Pb (7470)	Cyanide (335.2)	Sulfide (376.2)	General Chemistry[3]	TOTAL METALS (UNFILTERED) (23)	Remarks
-8 LF10GW100	12/14/04	1405			X		3		1	2	X	X	X		X					X		X					X		
~~-8 LF10GW100RB01~~		~~1420~~			~~X~~		~~3~~		~~1~~	~~2~~	~~X~~	~~X~~	~~X~~		~~X~~					~~X~~		~~X~~					~~X~~		
-9 LF10SP01		1245			X		3		2	2	X	X	X		X					X		X					X	X	
-10 BB3GW100		1515			X		3		1	2	X	X	X								X	X					X		
~~-10 BB3GW100RB02~~		~~1535~~			~~X~~		~~3~~		~~1~~	~~2~~	~~X~~	~~X~~	~~X~~								~~X~~	~~X~~					~~X~~		
-11 TB1214041A	↓	—			X		2							X															
-12 LF10GW100RBSP01	12/14/04	14:20			X		3																						Logged in on "HOLD"
Jam 12-15-04																													
-13 BB3GW100RB100	12/14/04	15:35																											Logged in on "HOLD"

Notes: [1] Use EPA 3630A Silica Gel Cleanup Step. [2] Dissolved metals: Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Th, Vn, and An. [3] Alkalinity, Bicarbonate, Carbonate, Chloride, Flouride, Nitrate/Nitrite, and Sulfate

Relinquished by: (Signature)	Date 12/15/04	Time	Received by: (Signature)	Date 12/15/04	Time 1045
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins

Laboratory Comments/Note.:

Method of Shipment ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 1433

Subject: RE: C&T Login Summary for 176662
From: "Joshua Graber" <jdgraber@treadwellrollo.com>
Date: Thu, 16 Dec 2004 12:54:33 -0800
To: "Steve Stanley" <steve@ctberk.com>

Thanks Steve!

I have another request and I hope it is easy for you to do. Could you separate the BB3GW100 and the BB3GW100RB100 samples into their own SDGs? The Trust is looking at this data apart from the GWM Project and would like this data to be validated separately.

Also, Blaine Tech is sampling 4 seep locations today and we would like to have these locations (BB3SW100 through BB3SW103) reported separately as well, for the same reasons as above.

I'm sorry for the inconvenience.

Please let me know if there is any problem.

Thanks!
Josh

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Thursday, December 16, 2004 12:34 PM
To: Joshua Graber
Cc: Colleen Haraden; Carole Nuttall
Subject: C&T Login Summary for 176662

C&T Login Summary for 176662

Project:

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

176662

Login#: ~~176656~~ ZAW 12-15-04 Date Received: 12-15-04 Number of Coolers: 3
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 12-15-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... YES NO
   How many and where? 1 over cooler lip Seal date: 12-15-04 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES NO
4. Were custody papers dry and intact when received? ..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO *
6. Did you sign the custody papers in the appropriate place? ..... YES NO
7. Was project identifiable from custody papers? ..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: Wet Temperature: 3.2 3.6 3.7

B. Login Phase
Date Logged In: 12-15-04 By (print): Tray Windsor (sign) Tray E Windsor

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken? ..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... YES NO
4. Did bottle labels agree with custody papers? ..... YES NO
5. Were appropriate containers used for the tests indicated? ..... YES NO
6. Were correct preservatives added to samples? ..... YES NO
7. Was sufficient amount of sample sent for tests indicated? ..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... YES NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
* A5 - ~~One~~ Two samples ~~was~~ were not listed.
ZAW 12-15-04

TOTAL VOLATILE HYDROCARBONS/

BTXE

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW102	Batch#:	97486
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/15/04
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	65-135
Bromofluorobenzene (FID)	123	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW103	Batch#:	97486
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/15/04
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	65-135
Bromofluorobenzene (FID)	127	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW104	Batch#:	97486
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/15/04
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	65-135
Bromofluorobenzene (FID)	130	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	LF10GW100	Batch#:	97486
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/15/04
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	102	65-135	EPA 8015B
Bromofluorobenzene (FID)	124	65-135	EPA 8015B
Trifluorotoluene (PID)	88	65-135	EPA 8021B
Bromofluorobenzene (PID)	110	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Field ID:	LF10SP01	Batch#:	97486
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/15/04
Diln Fac:	1.000		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	104	65-135	EPA 8015B
Bromofluorobenzene (FID)	127	65-135	EPA 8015B
Trifluorotoluene (PID)	87	65-135	EPA 8021B
Bromofluorobenzene (PID)	110	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276305	Batch#:	97486
Matrix:	Water	Analyzed:	12/15/04
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	108	65-135	EPA 8015B
Bromofluorobenzene (FID)	126	65-135	EPA 8015B
Trifluorotoluene (PID)	92	65-135	EPA 8021B
Bromofluorobenzene (PID)	111	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8021B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276306	Batch#:	97486
Matrix:	Water	Analyzed:	12/15/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
MTBE	20.00	18.87	94	65-135
Benzene	20.00	18.73	94	65-135
Toluene	20.00	19.30	97	65-135
Ethylbenzene	20.00	18.75	94	65-135

Surrogate	%REC	Limits
Trifluorotoluene (PID)	89	65-135
Bromofluorobenzene (PID)	108	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276307	Batch#:	97486
Matrix:	Water	Analyzed:	12/15/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,128	106	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	142 *	65-135
Bromofluorobenzene (FID)	135	65-135

*= Value outside of QC limits; see narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	97486
MSS Lab ID:	176648-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/16/04
Diln Fac:	1.000		

Type: MS Lab ID: QC276365

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	43.19	2,000	2,097	103	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137 *	65-135
Bromofluorobenzene (FID)	143 *	65-135

Type: MSD Lab ID: QC276366

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,108	103	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	138 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH
Calnum: 304466014001 Name: tvh Type: (normal) Date: 18-NOV-2004 20:30 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	323_007	304466014007	tvh1	18-NOV-2004 20:30	04WS1982 (1000X), 04WS1966 (5000X)
2	323_008	304466014008	tvh2	18-NOV-2004 21:05	04WS1983 (1000X), 04WS1966 (5000X)
3	323_009	304466014009	tvh3	18-NOV-2004 21:41	04WS1984 (1000X), 04WS1966 (5000X)
4	323_010	304466014010	tvh4	18-NOV-2004 22:17	04WS1985 (2000X), 04WS1966 (5000X)
5	323_011	304466014011	tvh5	18-NOV-2004 22:52	04WS1985 (1000X), 04WS1966 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Gasoline C7-C12	J	2584.4	1778.6	1670.9	2095.6	1820.2	AVRG	R		5.025E-4		ng	1989.9	18	0.995	20	

19

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Calname : tvh
Calnum : 304466014001 Caldate : 18-NOV-2004 Caltype :

ICV 304466014013 (323_013) standards: 04WS2154 (1000X), 04WS1966 (5000X)

Analyte	Ch	ICV Seqnum	Date	Spiked Quant	Units	%D
Gasoline C7-C12	J	304466014013	19-NOV-2004	10000.0 10789	ng	8

INITIAL CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH
Calnum: 304485919001 Name: tft/bfb Type: (normal) Date: 02-DEC-2004 11:15 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	337_002	304485919002	tft/bfb 1	02-DEC-2004 11:15	04WS2267 (5000X)
2	337_003	304485919003	tft/bfb 2	02-DEC-2004 11:50	04WS2268 (5000X)
3	337_004	304485919004	tft/bfb 3	02-DEC-2004 12:40	04WS2269 (5000X)
4	337_005	304485919005	tft/bfb 4	02-DEC-2004 13:33	04WS2270 (5000X)
5	337_006	304485919006	tft/bfb 5	02-DEC-2004 14:09	04WS2271 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Trifluorotoluene (FID)	J	1535.1	1610.6	1524.7	1570.3	1744.3	AVRG	R		6.262E-4		ng	1597.0	6	0.995	20	
Bromofluorobenzene (FID)	J	892.38	918.87	886.49	1000.2	1059.7	AVRG	R		0.001051		ng	951.53	8	0.995	20	
Trifluorotoluene (PID)	K	945.66	968.79	952.01	978.49	977.20	AVRG	R		0.001037		ng	964.43	2	0.995	20	
Bromofluorobenzene (PID)	K	1825.7	1904.5	1852.2	1942.8	1968.3	AVRG	R		5.267E-4		ng	1898.7	3	0.995	20	
Trifluorotoluene (PID)	L	367.74	403.17	406.42	427.25	439.61	AVRG	R		0.002446		ng	408.84	7	0.995	20	
Bromofluorobenzene (PID)	L	730.89	792.62	785.69	835.20	849.12	AVRG	R		0.001252		ng	798.71	6	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH
Calnum: 304485919002 Name: MBTXE Type: (normal) Date: 02-DEC-2004 17:16 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	337_008	304485919008	btxe 1	02-DEC-2004 17:16	04WS2141 (1000X), 04WS2266 (5000X)
2	337_009	304485919009	mtbe 1	02-DEC-2004 17:51	04WS2142 (1250X), 04WS2266 (5000X)
3	337_010	304485919010	mbtxe 2	02-DEC-2004 18:27	04WS2142 (500X), 04WS2266 (5000X)
4	337_011	304485919011	mbtxe 3	02-DEC-2004 19:03	04WS2142 (125X), 04WS2266 (5000X)
5	337_012	304485919012	mbtxe 4	02-DEC-2004 19:38	04WS2143 (1000X), 04WS2266 (5000X)
6	337_013	304485919013	mbtxe 5	02-DEC-2004 20:14	04WS2143 (500X), 04WS2266 (5000X)
7	337_014	304485919014	mbtxe 6	02-DEC-2004 20:49	04WS2143 (250X), 04WS2266 (5000X)
8	337_015	304485919015	mtbe 7	02-DEC-2004 21:25	04WS2144 (500X), 04WS2266 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	L8	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
MTBE	K		1244.4	1349.1	1170.5	1095.0	1110.2	1096.8	1082.4	AVRG	R		8.591E-4		ng	1164.0	9	0.995	20	
Benzene	K	3917.1		3419.3	3603.2	3830.1	3930.0	3946.3		AVRG	R		2.649E-4		ng	3774.3	6	0.995	20	
Toluene	K	3859.0		3269.4	3486.0	3581.0	3642.2	3633.9		AVRG	R		2.794E-4		ng	3578.6	5	0.995	20	
Ethylbenzene	K	3316.3		2818.1	2953.6	3084.9	3086.3	3085.0		AVRG	R		3.271E-4		ng	3057.4	5	0.995	20	
m,p-Xylenes	K	4249.1		3520.7	3708.2	3862.4	3863.6	3851.4		AVRG	R		2.602E-4		ng	3842.6	6	0.995	20	
o-Xylene	K	2947.2		2739.0	2976.8	3053.3	3061.7	3057.1		AVRG	R		3.364E-4		ng	2972.5	4	0.995	20	
MTBE	L		266.92	428.55	448.93	496.34	529.56	529.32	511.15	AVRG	R		0.002180		ng	458.68	20	0.995	20	
Benzene	L	1130.0		1367.3	1595.5	1773.3	1812.9	1771.4		AVRG	R		6.349E-4		ng	1575.1	17	0.995	20	
Toluene	L	1228.8		1321.8	1532.0	1664.0	1718.5	1696.2		AVRG	R		6.549E-4		ng	1526.9	14	0.995	20	
Ethylbenzene	L	1106.6		1151.4	1351.5	1488.3	1518.2	1506.3		AVRG	R		7.387E-4		ng	1353.7	14	0.995	20	
m,p-Xylenes	L	1513.3		1424.0	1627.9	1808.3	1840.0	1837.5		AVRG	R		5.970E-4		ng	1675.2	11	0.995	20	
o-Xylene	L	1164.1		1136.3	1355.3	1469.9	1512.9	1509.9		AVRG	R		7.363E-4		ng	1358.1	13	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Calname : MBTXE
Calnum : 304485919002 Caldate : 02-DEC-2004 Caltype :

ICV 304485919018 (337_018) standards: 04WS1964 (1000X), 04WS2266 (5000X)

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
MTBE	K	304485919018	02-DEC-2004	100.00	89.749	ng	-10	15
Benzene	K	304485919018	02-DEC-2004	100.00	102.26	ng	2	15
Toluene	K	304485919018	02-DEC-2004	100.00	102.81	ng	3	15
Ethylbenzene	K	304485919018	02-DEC-2004	100.00	99.099	ng	-1	15
m,p-Xylenes	K	304485919018	02-DEC-2004	200.00	197.42	ng	-1	15
o-Xylene	K	304485919018	02-DEC-2004	100.00	101.09	ng	1	15
MTBE	L	304485919018	02-DEC-2004	100.00	85.264	ng	-15	15
Benzene	L	304485919018	02-DEC-2004	100.00	109.67	ng	10	15
Toluene	L	304485919018	02-DEC-2004	100.00	105.73	ng	6	15
Ethylbenzene	L	304485919018	02-DEC-2004	100.00	104.08	ng	4	15
m,p-Xylenes	L	304485919018	02-DEC-2004	200.00	211.04	ng	6	15
o-Xylene	L	304485919018	02-DEC-2004	100.00	100.99	ng	1	15

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : QC276306 IDF : 1.0
Seqnum : 304504506002 Filename : 350_002 Injected : 15-DEC-2004 09:01
Caltype :

Standards: 04WS2369 (1000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
MTBE	K	304485919002	02-DEC-2004	1164.0	1098.2	100.0000	94.34353	ng	-6	15	u
MTBE	L	304485919002	02-DEC-2004	458.68	366.32	100.0000	79.86367	ng	**-20**	15	c- ***
Benzene	K	304485919002	02-DEC-2004	3774.3	3533.7	100.0000	93.62545	ng	-6	15	u
Benzene	L	304485919002	02-DEC-2004	1575.1	1438.0	100.0000	91.29918	ng	-9	15	
Toluene	K	304485919002	02-DEC-2004	3578.6	3453.4	100.0000	96.50171	ng	-3	15	u
Toluene	L	304485919002	02-DEC-2004	1526.9	1376.9	100.0000	90.18009	ng	-10	15	
Ethylbenzene	K	304485919002	02-DEC-2004	3057.4	2866.2	100.0000	93.74667	ng	-6	15	u
Ethylbenzene	L	304485919002	02-DEC-2004	1353.7	1222.3	100.0000	90.29215	ng	-10	15	
m,p-Xylenes	K	304485919002	02-DEC-2004	3842.6	3609.9	100.0000	93.94429	ng	-6	15	u
m,p-Xylenes	L	304485919002	02-DEC-2004	1675.2	1499.8	100.0000	89.53279	ng	-10	15	
o-Xylene	K	304485919002	02-DEC-2004	2972.5	2905.5	100.0000	97.74504	ng	-2	15	u
o-Xylene	L	304485919002	02-DEC-2004	1358.1	1219.3	100.0000	89.78070	ng	-10	15	
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	1768.5	450.0000	498.3083	ng	11	15	
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1233.9	450.0000	583.5416	ng	**30**	15	c+
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	854.56	450.0000	398.7329	ng	-11	15	u
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	355.54	450.0000	391.3285	ng	-13	15	
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2047.7	450.0000	485.3259	ng	8	15	u
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	866.99	450.0000	488.4735	ng	9	15	

+=high bias -=low bias c=CCV u=use
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : QC276307 IDF : 1.0
Seqnum : 304504506003 Filename : 350_003 Injected : 15-DEC-2004 09:37
Caltype :

Standards: 04WS2235 (1000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2117.2	10000.00	10639.30	ng	6	15	u
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2270.6	450.0000	639.8027	ng	42	15	c+ u
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1287.2	450.0000	608.7387	ng	35	15	c+ u
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	945.44	450.0000	441.1407	ng	-2	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	717.25	450.0000	789.4545	ng	75	15	c+
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2237.7	450.0000	530.3424	ng	18	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	1012.9	450.0000	570.6897	ng	27	15	c+

Final Pay

NA

BDL 2.6

IN-House QC Limits

TFT-FID-W
70-141 % Rec.

BFB-FID-W
80-143 % Rec.

+=high bias c=CCV u=use
Page 1 of 1

[illegible]

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : mbtxe IDF : 1.0
Seqnum : 304504506012 Filename : 350_012 Injected : 15-DEC-2004 16:17
Caltype :

Standards: 04WS2151 (666.7X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	1626.9	450.0000	458.4159	ng	2	15	
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1133.6	450.0000	536.0834	ng	**19**	15	c+ NA
MTBE	K	304485919002	02-DEC-2004	1164.0	1084.6	150.0000	139.7683	ng	-7	15	
Benzene	K	304485919002	02-DEC-2004	3774.3	3335.3	150.0000	132.5518	ng	-12	15	
Toluene	K	304485919002	02-DEC-2004	3578.6	3231.6	150.0000	135.4567	ng	-10	15	
Ethylbenzene	K	304485919002	02-DEC-2004	3057.4	2774.9	150.0000	136.1422	ng	-9	15	
m,p-Xylenes	K	304485919002	02-DEC-2004	3842.6	3612.2	150.0000	141.0074	ng	-6	15	
o-Xylene	K	304485919002	02-DEC-2004	2972.5	2830.5	150.0000	142.8332	ng	-5	15	
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	800.84	450.0000	373.6697	ng	**-17**	15	c- Poll
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	1973.6	450.0000	467.7507	ng	4	15	
MTBE	L	304485919002	02-DEC-2004	458.68	362.23	150.0000	118.4587	ng	**-21**	15	c- *** flush pur w/2
Benzene	L	304485919002	02-DEC-2004	1575.1	1425.3	150.0000	135.7421	ng	-10	15	
Toluene	L	304485919002	02-DEC-2004	1526.9	1371.0	150.0000	134.6847	ng	-10	15	
Ethylbenzene	L	304485919002	02-DEC-2004	1353.7	1234.1	150.0000	136.7513	ng	-9	15	
m,p-Xylenes	L	304485919002	02-DEC-2004	1675.2	1520.1	150.0000	136.1181	ng	-9	15	
o-Xylene	L	304485919002	02-DEC-2004	1358.1	1246.0	150.0000	137.6227	ng	-8	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	337.43	450.0000	371.3983	ng	**-17**	15	c- Poll
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	834.09	450.0000	469.9338	ng	4	15	

+=high bias -=low bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : tvh IDF : 1.0
Seqnum : 304504506013 Filename : 350_013 Injected : 15-DEC-2004 16:53
Caltype :

Standards: 04WS2235 (666.7X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2039.6	15000.00	15374.36	ng	2	15	
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2162.9	450.0000	609.4554	ng	**35**	15	c+
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1156.5	450.0000	546.9414	ng	**22**	15	c+
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	1077.9	450.0000	502.9345	ng	12	15	
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	1886.6	450.0000	447.1354	ng	-1	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	666.60	450.0000	733.7147	ng	**63**	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	897.54	450.0000	505.6861	ng	12	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : mbtxe IDF : 1.0
Seqnum : 304504506025 Filename : 350_025 Injected : 16-DEC-2004 00:01
Caltype :

Standards: 04WS2151 (2000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	1677.7	450.0000	472.7275	ng	5	15	
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1187.9	450.0000	561.7790	ng	**25**	15	c+
MTBE	K	304485919002	02-DEC-2004	1164.0	1339.1	50.00000	57.52088	ng	15	15	
Benzene	K	304485919002	02-DEC-2004	3774.3	3677.5	50.00000	48.71761	ng	-3	15	
Toluene	K	304485919002	02-DEC-2004	3578.6	3512.3	50.00000	49.07461	ng	-2	15	
Ethylbenzene	K	304485919002	02-DEC-2004	3057.4	3008.6	50.00000	49.20301	ng	-2	15	
m,p-Xylenes	K	304485919002	02-DEC-2004	3842.6	3845.2	50.00000	50.03491	ng	0	15	
o-Xylene	K	304485919002	02-DEC-2004	2972.5	3031.9	50.00000	50.99982	ng	2	15	
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	831.27	450.0000	387.8662	ng	-14	15	
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2057.5	450.0000	487.6500	ng	8	15	
MTBE	L	304485919002	02-DEC-2004	458.68	419.16	50.00000	45.69199	ng	-9	15	
Benzene	L	304485919002	02-DEC-2004	1575.1	1486.4	50.00000	47.18551	ng	-6	15	
Toluene	L	304485919002	02-DEC-2004	1526.9	1424.0	50.00000	46.63247	ng	-7	15	
Ethylbenzene	L	304485919002	02-DEC-2004	1353.7	1275.9	50.00000	47.12717	ng	-6	15	
m,p-Xylenes	L	304485919002	02-DEC-2004	1675.2	1557.6	50.00000	46.49169	ng	-7	15	
o-Xylene	L	304485919002	02-DEC-2004	1358.1	1258.2	50.00000	46.32350	ng	-7	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	365.64	450.0000	402.4539	ng	-11	15	
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	878.73	450.0000	495.0851	ng	10	15	

No

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : tvh IDF : 1.0
Seqnum : 304504506026 Filename : 350_026 Injected : 16-DEC-2004 00:36
Caltype :

Standards: 04WS2235 (2000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2123.0	5000.000	5334.274	ng	7	15	
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2035.0	450.0000	573.4297	ng	**27**	15	c+
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1168.4	450.0000	552.5818	ng	**23**	15	c+
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	894.17	450.0000	417.2153	ng	-7	15	
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2034.0	450.0000	482.0676	ng	7	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	514.88	450.0000	566.7123	ng	**26**	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	899.97	450.0000	507.0519	ng	13	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : tvh IDF : 1.0
Seqnum : 304504506034 Filename : 350_034 Injected : 16-DEC-2004 05:22
Caltype :

Standards: 04WS2235 (1000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2048.7	10000.00	10295.25	ng	3	15	
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2155.9	450.0000	607.4816	ng	**35**	15	c+
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1249.6	450.0000	590.9691	ng	**31**	15	c+
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	1129.5	450.0000	527.0398	ng	**17**	15	c+
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2184.5	450.0000	517.7423	ng	15	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	694.10	450.0000	763.9817	ng	**70**	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	979.28	450.0000	551.7356	ng	**23**	15	c+

+=high bias c=CCV
Page 1 of 1

PROJECT GC04 Byline Cy Bell

Notebook No. BL 1949

Continued From Page

89

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 18-NOV-2004

Sequence: 304466014 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	323_001	CCV/LCS	QC272860	96636	Soil	18-NOV-2004 14:54	1.0					1 2	Pass
002	323_002	CCV	minsp	96636		18-NOV-2004 15:37	1.0					3 2	
003	323_003	CCV	minsp	96636		18-NOV-2004 16:12	1.0					3 2	
004	323_004	BLANK	QC272859	96636	Soil	18-NOV-2004 16:48	1.0					2	
005	323_005	X	ib			18-NOV-2004 19:19	1.0					2	
006	323_006	X	ib			18-NOV-2004 19:54	1.0					2	
007	323_007	ICAL	tvh1			18-NOV-2004 20:30	1.0					4 2	Pass/use
008	323_008	ICAL	tvh2			18-NOV-2004 21:05	1.0					5 2	
009	323_009	ICAL	tvh3			18-NOV-2004 21:41	1.0					6 2	
010	323_010	ICAL	tvh4			18-NOV-2004 22:17	1.0					7 2	
011	323_011	ICAL	tvh5			18-NOV-2004 22:52	1.0					7 2	
012	323_012	X	ib			18-NOV-2004 23:28	1.0					2	
013	323_013	ICV	tvh			19-NOV-2004 00:04	1.0	1	5000			1 2	Pass/use 1:F3BZME=953.541
014	323_014	X	crbmkr			19-NOV-2004 00:39	1.0					8 9 2	
015	323_015	X	ib			19-NOV-2004 01:15	1.0					2	
016	323_016	X	ib			19-NOV-2004 06:53	1.0					2	
017	323_017	ICAL	tft/bfb 1			19-NOV-2004 07:29	1.0					10	Pass/use
018	323_018	ICAL	tft/bfb 2			19-NOV-2004 08:05	1.0					11	
019	323_019	ICAL	tft/bfb 3			19-NOV-2004 08:47	1.0					12	
020	323_020	ICAL	tft/bfb 4			19-NOV-2004 09:29	1.0					13	
021	323_021	ICAL	tft/bfb 5			19-NOV-2004 10:16	1.0					14	

Stds used: 1=04WS2154 2=04WS1986 3=04WS1162 4=04WS1982 5=04WS1983 6=04WS1984 7=04WS1985 8=02SS420 9=02SS421 10=04WS1886 11=04WS1887 12=04WS1888 13=04WS1889 14=04WS1890

Analyst: Date: 11.19.04

Page 1 of 1

11.19.04

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Date 11.19.04

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Date

Continued on Page

PROJECT

Notebook No.

Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 304485919 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 02-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	337_001	X	ib			02-DEC-2004 10:39	1.0				1	
002	337_002	ICAL	tft/bfb 1			02-DEC-2004 11:15	1.0				2 pass/use	
003	337_003	ICAL	tft/bfb 2			02-DEC-2004 11:50	1.0				3	
004	337_004	ICAL	tft/bfb 3			02-DEC-2004 12:40	1.0				4	
005	337_005	ICAL	tft/bfb 4			02-DEC-2004 13:33	1.0				5	
006	337_006	ICAL	tft/bfb 5			02-DEC-2004 14:09	1.0				6	
007	337_007	X	ib			02-DEC-2004 16:40	1.0				1	
008	337_008	ICAL	btxe 1			02-DEC-2004 17:16	1.0				7 1 pass/use	
009	337_009	ICAL	mtbe 1			02-DEC-2004 17:51	1.0				8 1	
010	337_010	ICAL	mbtxe 2			02-DEC-2004 18:27	1.0				8 1	
011	337_011	ICAL	mbtxe 3			02-DEC-2004 19:03	1.0				8 1	
012	337_012	ICAL	mbtxe 4			02-DEC-2004 19:38	1.0				9 1	
013	337_013	ICAL	mbtxe 5			02-DEC-2004 20:14	1.0				9 1	
014	337_014	ICAL	mbtxe 6			02-DEC-2004 20:49	1.0				9 1	
015	337_015	ICAL	mtbe 7			02-DEC-2004 21:25	1.0				10 1	
016	337_016	X	ib			02-DEC-2004 22:00	1.0				1	
017	337_017	X	mbtxe			02-DEC-2004 22:35	1.0				11 1 out of spec	
018	337_018	ICV	mbtxe			02-DEC-2004 23:10	1.0	5000			11 1 pass/use	

Stds used: 1=04WS2266 2=04WS2267 3=04WS2268 4=04WS2269 5=04WS2270 6=04WS2271 7=04WS2141 8=04WS2142 9=04WS2143 10=04WS2144 ~~11=04~~
11 = 04WS1964

Analyst: _____ Date: 12/03/04
Page 1 of 1

12/8/04

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Date

Continued on Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 304504506 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 15-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	350_001	X	ib			15-DEC-2004 08:26	1.0						1	
002	350_002	CCV/LCS	QC276306	97486	Water	15-DEC-2004 09:01	1.0	1		5000			2 1 Pass	
003	350_003	CCV/LCS	QC276307	97486	Water	15-DEC-2004 09:37	1.0		2	5000			3 1	
004	350_004	BLANK	QC276305	97486	Water	15-DEC-2004 10:25	1.0	6		5000			1 LR	
005	350_005	X	176639-007	97486	Water	15-DEC-2004 11:07	1.0			5000	A	10	1 Not used	
006	350_006	SAMPLE	176639-007	97486	Water	15-DEC-2004 11:54	1.0			5000			1	
007	350_007	SAMPLE	176648-002	97486	Water	15-DEC-2004 12:30	1.0			5000			1	
008	350_008	X	176632-009	97486	Water	15-DEC-2004 13:06	1.0			5000	B	10	1 Not used 6:EBZ=3526.39	
009	350_009	SAMPLE	176632-009	97486	Water	15-DEC-2004 14:18	5.0	1		5000			1	
010	350_010	SAMPLE	176632-008	97486	Water	15-DEC-2004 14:53	1.0	1		5000			1	
011	350_011	SAMPLE	176648-003	97486	Water	15-DEC-2004 15:42	1.0			5000	A	10	1	
012	350_012	CCV	mbtxe	97486		15-DEC-2004 16:17	1.0	1		5000			4 1 Pass	
013	350_013	CCV	tvh	97486		15-DEC-2004 16:53	1.0			5000			3 1	
014	350_014	SAMPLE	176662-008	97486	Water	15-DEC-2004 17:29	1.0	2		5000	A	10	1	
015	350_015	SAMPLE	176662-009	97486	Water	15-DEC-2004 18:04	1.0	2		5000			1	
016	350_016	SAMPLE	176664-004	97486	Water	15-DEC-2004 18:40	1.0			5000			1	
017	350_017	SAMPLE	176664-002	97486	Water	15-DEC-2004 19:16	1.0			5000			1	
018	350_018	SAMPLE	176664-003	97486	Water	15-DEC-2004 19:51	1.0			5000			1	
019	350_019	SAMPLE	176662-005	97486	Water	15-DEC-2004 20:27	1.0	1		5000			1	
020	350_020	SAMPLE	176662-006	97486	Water	15-DEC-2004 21:03	1.0	1		5000			1	
021	350_021	SAMPLE	176662-007	97486	Water	15-DEC-2004 21:38	1.0	1		5000			1	
022	350_022	SAMPLE	176662-010	97486	Water	15-DEC-2004 22:14	1.0	1		5000			1	
023	350_023	SAMPLE	176664-001	97486	Water	15-DEC-2004 22:49	1.0			5000			1	
024	350_024	X	mbtxe	97486		15-DEC-2004 23:25	1.0			5000			4 1 Not used	
025	350_025	CCV	mbtxe	97486		16-DEC-2004 00:01	1.0			5000			4 1 Pass	
026	350_026	CCV	tvh	97486		16-DEC-2004 00:36	1.0			5000			3 1	
027	350_027	X	tvh	97486		16-DEC-2004 01:12	1.0			5000			3 1 Not used	
028	350_028	SAMPLE	176666-001	97486	Water	16-DEC-2004 01:48	1.0			5000	A	10	1	
029	350_029	SAMPLE	176648-004	97486	Water	16-DEC-2004 02:23	1.0			5000			1	
030	350_030	SAMPLE	176648-005	97486	Water	16-DEC-2004 02:59	1.0			5000			1	

Stds used: 1=04WS2266 2=04WS2369 3=04WS2235 4=04WS2151

Analyst: Date: 12.16.04
Page 1 of 2

12.16.04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 304504506 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 15-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	350_031	MSS	176648-006	97486	Water	16-DEC-2004 03:35	1.0	2		5000	A	10	1	
032	350_032	MS	QC276365	97486	Water	16-DEC-2004 04:10	1.0		2	5000			3 1 Pass	
033	350_033	MSD	QC276366	97486	Water	16-DEC-2004 04:46	1.0		2	5000			3 1	
034	350_034	CCV	tvh	97486		16-DEC-2004 05:22	1.0			5000			3 1	
035	350_035	X	tvh	97486		16-DEC-2004 05:57	1.0			5000			3 1 Not used	

Stds used: 1=04WS2266 2=04WS2369 3=04WS2235 4=04WS2151

Analyst: Date: 12.16.04
Page 2 of 2

Continued on Page

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Signed 12/16/04 Date

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 TVH Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	STOD	F3BZ	BR4F	
176662-005	GC04	12/15/04 20:27	1.0	+		+	+	
176662-006	GC04	12/15/04 21:03	1.0	+		+	+	
176662-007	GC04	12/15/04 21:38	1.0	+		+	+	
176662-008	GC04	12/15/04 17:29	1.0	+		+	+	
176662-009	GC04	12/15/04 18:04	1.0	+		+	+	
176662-010	GC04	12/15/04 22:14	1.0	+		+	+	
QC276305	GC04	12/15/04 10:25	1.0	+		+	+	
QC276306	GC04	12/15/04 09:01	1.0					
QC276307	GC04	12/15/04 09:37	1.0	+		+	+	
QC276365	GC04	12/16/04 04:10	1.0	+		+	+	
QC276366	GC04	12/16/04 04:46	1.0	+		+	+	

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 MBTXE Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
176662-005	Gasoline C7-C12	GC04	J	12/15/04 20:27
176662-005	Trifluorotoluene (FID)	GC04	J	12/15/04 20:27
176662-005	Bromofluorobenzene (FID)	GC04	J	12/15/04 20:27
176662-006	Gasoline C7-C12	GC04	J	12/15/04 21:03
176662-006	Trifluorotoluene (FID)	GC04	J	12/15/04 21:03
176662-006	Bromofluorobenzene (FID)	GC04	J	12/15/04 21:03
176662-007	Gasoline C7-C12	GC04	J	12/15/04 21:38
176662-007	Trifluorotoluene (FID)	GC04	J	12/15/04 21:38
176662-007	Bromofluorobenzene (FID)	GC04	J	12/15/04 21:38
176662-008	Gasoline C7-C12	GC04	J	12/15/04 17:29
176662-008	MTBE	GC04	K	12/15/04 17:29
176662-008	Benzene	GC04	K	12/15/04 17:29
176662-008	Toluene	GC04	K	12/15/04 17:29
176662-008	Ethylbenzene	GC04	K	12/15/04 17:29
176662-008	Trifluorotoluene (FID)	GC04	J	12/15/04 17:29
176662-008	Bromofluorobenzene (FID)	GC04	J	12/15/04 17:29
176662-008	Trifluorotoluene (PID)	GC04	K	12/15/04 17:29
176662-008	Bromofluorobenzene (PID)	GC04	K	12/15/04 17:29
176662-008	Xylene (total)	GC04	K	12/15/04 17:29
176662-009	Gasoline C7-C12	GC04	J	12/15/04 18:04
176662-009	MTBE	GC04	K	12/15/04 18:04
176662-009	Benzene	GC04	K	12/15/04 18:04
176662-009	Toluene	GC04	K	12/15/04 18:04
176662-009	Ethylbenzene	GC04	K	12/15/04 18:04
176662-009	Trifluorotoluene (FID)	GC04	J	12/15/04 18:04
176662-009	Bromofluorobenzene (FID)	GC04	J	12/15/04 18:04
176662-009	Trifluorotoluene (PID)	GC04	K	12/15/04 18:04
176662-009	Bromofluorobenzene (PID)	GC04	K	12/15/04 18:04
176662-009	Xylene (total)	GC04	K	12/15/04 18:04
176662-010	Gasoline C7-C12	GC04	J	12/15/04 22:14
176662-010	Trifluorotoluene (FID)	GC04	J	12/15/04 22:14
176662-010	Bromofluorobenzene (FID)	GC04	J	12/15/04 22:14
QC276305	Gasoline C7-C12	GC04	J	12/15/04 10:25
QC276305	MTBE	GC04	K	12/15/04 10:25
QC276305	Benzene	GC04	K	12/15/04 10:25
QC276305	Toluene	GC04	K	12/15/04 10:25
QC276305	Ethylbenzene	GC04	K	12/15/04 10:25
QC276305	Trifluorotoluene (FID)	GC04	J	12/15/04 10:25
QC276305	Bromofluorobenzene (FID)	GC04	J	12/15/04 10:25
QC276305	Trifluorotoluene (PID)	GC04	K	12/15/04 10:25
QC276305	Bromofluorobenzene (PID)	GC04	K	12/15/04 10:25
QC276305	Xylene (total)	GC04	K	12/15/04 10:25

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 MBTXE Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC276306	MTBE	GC04	K	12/15/04 09:01
QC276306	Benzene	GC04	K	12/15/04 09:01
QC276306	Toluene	GC04	K	12/15/04 09:01
QC276306	Ethylbenzene	GC04	K	12/15/04 09:01
QC276306	Trifluorotoluene (PID)	GC04	K	12/15/04 09:01
QC276306	Bromofluorobenzene (PID)	GC04	K	12/15/04 09:01
QC276307	Gasoline C7-C12	GC04	J	12/15/04 09:37
QC276307	Trifluorotoluene (FID)	GC04	J	12/15/04 09:37
QC276307	Bromofluorobenzene (FID)	GC04	J	12/15/04 09:37
QC276365	Gasoline C7-C12	GC04	J	12/16/04 04:10
QC276365	Trifluorotoluene (FID)	GC04	J	12/16/04 04:10
QC276365	Bromofluorobenzene (FID)	GC04	J	12/16/04 04:10
QC276366	Gasoline C7-C12	GC04	J	12/16/04 04:46
QC276366	Trifluorotoluene (FID)	GC04	J	12/16/04 04:46
QC276366	Bromofluorobenzene (FID)	GC04	J	12/16/04 04:46

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97486
Date Started: 15-DEC-2004
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
176632-008			Stellar Environmen	Water	MBTXE, TVH	20-DEC-2004
176632-009			Stellar Environmen	Water	MBTXE, TVH	20-DEC-2004
176639-007			Tan Phung Associat	Water	BTXE, TVH	17-DEC-2004
176648-002			URS Corporation	Water	TVH	28-DEC-2004
176648-003			URS Corporation	Water	TVH	28-DEC-2004
176648-004			URS Corporation	Water	TVH	28-DEC-2004
176648-005			URS Corporation	Water	TVH	28-DEC-2004
176648-006			URS Corporation	Water	TVH	28-DEC-2004
176662-005			Treadwell & Rollo	Water	TVH	28-DEC-2004
176662-006			Treadwell & Rollo	Water	TVH	28-DEC-2004
176662-007			Treadwell & Rollo	Water	TVH	28-DEC-2004
176662-008			Treadwell & Rollo	Water	MBTXE, TVH	28-DEC-2004
176662-009			Treadwell & Rollo	Water	MBTXE, TVH	28-DEC-2004
176662-010			Treadwell & Rollo	Water	TVH	28-DEC-2004
176664-001			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176664-002			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176664-003			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176664-004			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176666-001			SOMA Environmental	Water	TVH	21-DEC-2004
QC276305	MB			Water		
QC276306	LCS			Water		
QC276307	LCS			Water		
QC276365	MS	of 176648-006		Water		
QC276366	MSD	of 176648-006		Water		

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water

Analyte	Units	GC04 J	GC05 G	GC07 A	GC19 X
Gasoline C6-C10	ug/L	02/03/04 8.8	07/12/04 11	11/10/04 20	12/19/03 10
Gasoline C6-C12	ug/L	02/03/04 9.7	07/12/04 8.5	11/10/04 20	12/19/03 13
Gasoline C7-C12	ug/L	02/03/04 11	07/12/04 4.3	11/10/04 24	12/19/03 13
JP-4 C7-C12	ug/L	02/04/04 4.7	12/04/03 19	02/10/04 5.1	02/09/04 9.7

Curtis & Tompkins Laboratories
MDL Summary for EPA 8021B Water

Analyte	Units	GC04 K	GC04 L	GC05 H	GC05 I	GC07 B	GC07 C	GC19 Y	GC19 Z
MTBE	ug/L	02/02/04 0.37	02/02/04 0.40	07/13/04 0.61	07/13/04 0.29	11/09/04 0.15	11/09/04 0.87	02/10/04 0.41	02/10/04 0.47
Benzene	ug/L	02/02/04 0.13	02/02/04 0.031	07/13/04 0.057	07/13/04 0.076	11/09/04 0.042	11/09/04 0.038	02/10/04 0.074	02/10/04 0.053
Toluene	ug/L	02/02/04 0.079	02/02/04 0.082	07/13/04 0.040	07/13/04 0.20	11/09/04 0.030	11/09/04 0.040	02/10/04 0.11	02/10/04 0.10
Ethylbenzene	ug/L	02/02/04 0.059	02/02/04 0.046	07/13/04 0.042	07/13/04 0.090	11/09/04 0.045	11/09/04 0.040	02/10/04 0.051	02/10/04 0.087
m,p-Xylenes	ug/L	02/02/04 0.10	02/02/04 0.049	07/13/04 0.045	07/13/04 0.23	11/09/04 0.071	11/09/04 0.060	02/10/04 0.055	02/10/04 0.061
o-Xylene	ug/L	02/02/04 0.052	02/02/04 0.074	07/13/04 0.046	07/13/04 0.058	11/09/04 0.088	11/09/04 0.038	02/10/04 0.10	02/10/04 0.10

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW102	Batch#:	97722
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	81	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW103	Batch#:	97722
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	73	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF5GW104	Batch#:	97722
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	77	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF10GW100	Batch#:	97722
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	104	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	LF10SP01	Batch#:	97722
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	72	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277217	Batch#:	97722
Matrix:	Water	Prepared:	12/21/04
Units:	ug/L	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC277218	Batch#:	97722
Matrix:	Water	Prepared:	12/21/04
Units:	ug/L	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,005	80	65-135

Surrogate	%REC	Limits
Hexacosane	92	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	97722
MSS Lab ID:	176683-005	Sampled:	12/15/04
Matrix:	Water	Received:	12/16/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Type: MS Lab ID: QC277219

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<28.00	2,500	2,158	86	65-135

Surrogate	%REC	Limits
Hexacosane	95	65-135

Type: MSD Lab ID: QC277220

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,618	105	65-135	19	35

Surrogate	%REC	Limits
Hexacosane	111	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114491750001 Name: dsl Type: (normal) Date: 06-DEC-2004 12:48 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	341a003	114491750003	dsl10	06-DEC-2004 12:48	04WS1748
2	341a004	114491750004	dsl100	06-DEC-2004 13:18	04WS1747
3	341a005	114491750005	dsl250	06-DEC-2004 13:47	04WS1221
4	341a006	114491750006	dsl500	06-DEC-2004 14:16	04WS1745
5	341a007	114491750007	dsl1000	06-DEC-2004 14:46	04WS1744
6	341a008	114491750008	dsl2500	06-DEC-2004 15:15	04WS1743
7	341a009	114491750009	dsl5000	06-DEC-2004 15:44	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Diesel C12-C24	18379	24186	27245	25337	24468	24098	23515	AVRG R		4.186E-5		mg/L	23890	11	0.995	20	

49

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG R		5.502E-5		mg/L	18175	7	0.995	20	

50

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114506134001 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 12:04 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	351a002	114506134002	hex5	16-DEC-2004 12:04	04WS2042
2	351a003	114506134003	hex10	16-DEC-2004 12:33	04WS2043
3	351a004	114506134004	hex25	16-DEC-2004 13:02	04WS2044
4	351a005	114506134005	hex50	16-DEC-2004 13:31	04WS2045
5	351a006	114506134006	hex75	16-DEC-2004 14:00	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	29511	28377	29932	29897	29504	AVRG R		3.396E-5		mg/L	29444	2	0.995	20	

51

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030001 Name: Diesel Type: (normal) Date: 15-DEC-2004 18:05 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b003	144505030003	dsl10	15-DEC-2004 18:05	04WS2298
2	350b004	144505030004	dsl100	15-DEC-2004 18:33	04WS2299
3	350b005	144505030005	dsl250	15-DEC-2004 19:01	04WS2300
4	350b006	144505030006	dsl1000	15-DEC-2004 19:29	04WS2302
5	350b007	144505030007	dsl2500	15-DEC-2004 19:58	04WS2303
6	350b008	144505030008	dsl5000	15-DEC-2004 20:26	04WS2297
7	350b027	144505030027	dsl	16-DEC-2004 14:00	04WS2389

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Diesel C12-C24	14347	19586	18288	18764	17524	18785	18705	AVRG R		5.556E-5		mg/L	18000	10	0.995	20	

52

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030002 Name: Motor Oil Type: (normal) Date: 15-DEC-2004 21:22 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b010	144505030010	mo50	15-DEC-2004 21:22	04WS2172
2	350b011	144505030011	mo250	15-DEC-2004 21:50	04WS2173
3	350b012	144505030012	mo500	15-DEC-2004 22:18	04WS2174
4	350b013	144505030013	mo1000	15-DEC-2004 22:46	04WS2175
5	350b014	144505030014	mo2500	15-DEC-2004 23:14	04WS2176
6	350b015	144505030015	mo5000	15-DEC-2004 23:43	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	12925	13361	13764	12705	11990	7534.8	AVRG R		8.301E-5		mg/L	12047	19	0.995	20	

53

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030003 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 00:39 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b017	144505030017	hex5	16-DEC-2004 00:39	04WS2042
2	350b018	144505030018	hex10	16-DEC-2004 01:07	04WS2043
3	350b019	144505030019	hex25	16-DEC-2004 01:35	04WS2044
4	350b020	144505030020	hex50	16-DEC-2004 02:04	04WS2045
5	350b026	144505030026	hex75	16-DEC-2004 12:15	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	22429	20066	21474	22789	22529	AVRG R		4.575E-5		mg/L	21858	5	0.995	20	

54

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC11A Calname : dsl
Calnum : 114491750001 Caldate : 06-DEC-2004 Caltype :

ICV 114491750011 (341a011) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	114491750011	06-DEC-2004	500.00	468.85	mg/L	-6

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC13B Calname : Diesel
Calnum : 144505030001 Caldate : 15-DEC-2004 Caltype :

ICV 144505030029 (350b029) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	144505030029	16-DEC-2004	500.00	472.33	mg/L	-6

CONTINUING CALIBRATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114516080007	23-DEC-2004 12:23	114491750001	06-DEC-2004	23890	24154	1000.0	1011.1	mg/L	1	15	
GC11A	A	114516080021	23-DEC-2004 19:14	114491750001	06-DEC-2004	23890	23816	250.00	249.23	mg/L	0	15	
GC13B	B	144516104003	23-DEC-2004 11:38	144505030001	15-DEC-2004	18000	18673	500.00	518.70	mg/L	4	15	
GC13B	B	144516104015	23-DEC-2004 17:19	144505030001	15-DEC-2004	18000	18652	1000.0	1036.3	mg/L	4	15	
GC13B	B	144516104028	23-DEC-2004 23:21	144505030001	15-DEC-2004	18000	16757	250.00	232.74	mg/L	-7	15	

CONTINUING CALIBRATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114516080008	23-DEC-2004 12:53	114442646002	02-NOV-2004	18175	19517	500.00	536.90	mg/L	7	15	
GC11A	A	114516080022	23-DEC-2004 19:43	114442646002	02-NOV-2004	18175	19580	500.00	538.64	mg/L	8	15	
GC13B	B	144516104004	23-DEC-2004 12:06	144505030002	15-DEC-2004	12047	13444	500.00	558.00	mg/L	12	15	
GC13B	B	144516104016	23-DEC-2004 17:47	144505030002	15-DEC-2004	12047	12961	500.00	537.95	mg/L	8	15	
GC13B	B	144516104029	23-DEC-2004 23:49	144505030002	15-DEC-2004	12047	13436	500.00	557.66	mg/L	12	15	

CONTINUING CALIBRATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114516080007	23-DEC-2004 12:23	114506134001	16-DEC-2004	29444	29615	50.000	50.290	mg/L	1	15	
GC11A	A	114516080021	23-DEC-2004 19:14	114506134001	16-DEC-2004	29444	31464	50.000	53.431	mg/L	7	15	
GC13B	B	144516104003	23-DEC-2004 11:38	144505030003	16-DEC-2004	21858	23454	50.000	53.651	mg/L	7	15	
GC13B	B	144516104015	23-DEC-2004 17:19	144505030003	16-DEC-2004	21858	23162	50.000	52.984	mg/L	6	15	
GC13B	B	144516104028	23-DEC-2004 23:21	144505030003	16-DEC-2004	21858	22089	50.000	50.530	mg/L	1	15	

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114442646 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 02-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	307a001	X	primer			02-NOV-2004 09:26	1.0							
002	307a002	X	ib			02-NOV-2004 09:55	1.0							
003	307a003	CCV	dsl			02-NOV-2004 10:24	1.0	6		3			1	
004	307a004	CCV	mo			02-NOV-2004 10:54	1.0	4		3			2	
005	307a005	ICAL	dsl10			02-NOV-2004 13:24	1.0						3	
006	307a006	ICAL	dsl100			02-NOV-2004 13:53	1.0						4	
007	307a007	ICAL	dsl250			02-NOV-2004 14:22	1.0						5	
008	307a008	ICAL	dsl500			02-NOV-2004 14:52	1.0						6	
009	307a009	ICAL	dsl1000			02-NOV-2004 15:21	1.0						7	
010	307a010	ICAL	dsl2500			02-NOV-2004 15:50	1.0						8	
011	307a011	ICAL	dsl5000			02-NOV-2004 16:20	1.0						9	
012	307a012	X	ib			02-NOV-2004 16:49	1.0							
013	307a013	ICAL	mo50			02-NOV-2004 17:19	1.0						10	
014	307a014	ICAL	mo250			02-NOV-2004 17:48	1.0						11	
015	307a015	ICAL	mo500			02-NOV-2004 18:17	1.0						12	
016	307a016	ICAL	mo1000			02-NOV-2004 18:46	1.0						13	
017	307a017	ICAL	mo2500			02-NOV-2004 19:16	1.0						14	
018	307a018	ICAL	mo5000			02-NOV-2004 19:45	1.0						15	
019	307a019	X	ib			02-NOV-2004 20:14	1.0							
020	307a020	ICAL	hex5			02-NOV-2004 20:43	1.0						16	
021	307a021	ICAL	hex10			02-NOV-2004 21:13	1.0						17	
022	307a022	ICAL	hex25			02-NOV-2004 21:42	1.0						18	
023	307a023	ICAL	hex50			02-NOV-2004 22:11	1.0						19	
024	307a024	ICAL	hex75			02-NOV-2004 22:40	1.0						20	
025	307a025	X	ib			02-NOV-2004 23:09	1.0							
026	307a026	CCV	dsl			02-NOV-2004 23:39	1.0			3			1	
027	307a027	CCV	mo			03-NOV-2004 00:08	1.0			3			2	
028	307a028	ICV	dsl500			03-NOV-2004 00:38	1.0			3			21	

Stds used: 1=04WS1975 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS1208 11=04WS1209 12=04WS1210 13=04WS1211 14=04WS1212 15=04WS1012 16=04WS2042 17=04WS2043 18=04WS2044 19=04WS2045 20=04WS2046 21=04WS2006

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	341a001	X	primer			06-DEC-2004 11:50	1.0				
002	341a002	X	ib			06-DEC-2004 12:19	1.0				
003	341a003	ICAL	dsl10			06-DEC-2004 12:48	1.0	1.0		1	
004	341a004	ICAL	dsl100			06-DEC-2004 13:18	1.0	1.0		2	
005	341a005	ICAL	dsl250			06-DEC-2004 13:47	1.0	1.0		3	
006	341a006	ICAL	dsl500			06-DEC-2004 14:16	1.0	1.0		4	
007	341a007	ICAL	dsl1000			06-DEC-2004 14:46	1.0	1.0		5	
008	341a008	ICAL	dsl2500			06-DEC-2004 15:15	1.0	1.0		6	
009	341a009	ICAL	dsl5000			06-DEC-2004 15:44	1.0	1.0		7	
010	341a010	X	ib			06-DEC-2004 16:14	1.0				
011	341a011	ICV	dsl			06-DEC-2004 16:43	1.0	1.0	3	8	
012	341a012	CCV	dsl			06-DEC-2004 17:13	1.0	1.0	3	9	
013	341a013	CCV	mo			06-DEC-2004 17:42	1.0	1.0	3	10	
014	341a014	SAMPLE	176268-029	97153	Water	06-DEC-2004 18:45	1.0	0.005	3		
015	341a015	SAMPLE	176363-015 S	97153	Water	06-DEC-2004 19:14	1.0	0.005	3		
016	341a016	SAMPLE	176363-012 S	97153	Water	06-DEC-2004 19:43	1.0	0.005	3		
017	341a017	SAMPLE	176363-009 S	97153	Water	06-DEC-2004 20:13	1.0	0.005	3		
018	341a018	SAMPLE	176363-006 S	97153	Water	06-DEC-2004 20:42	1.0	0.005	3		
019	341a019	SAMPLE	176363-003 S	97153	Water	06-DEC-2004 21:11	1.0	0.005	3		
020	341a020	SAMPLE	176268-012	97155	Soil	06-DEC-2004 21:41	1.0	0.1001	3		
021	341a021	SAMPLE	176268-009	97155	Soil	06-DEC-2004 22:10	1.0	0.09915	3		
022	341a022	SAMPLE	176268-015	97155	Soil	06-DEC-2004 22:40	1.0	0.0995	3		
023	341a023	SAMPLE	176341-001	97146	Soil	06-DEC-2004 23:09	50.0	0.1000	3		1:BUNKC:=5196.67
024	341a024	CCV	dsl			06-DEC-2004 23:38	1.0	1.0	3	11	
025	341a025	CCV	mo			07-DEC-2004 00:07	1.0	1.0	3	12	
026	341a026	X	ccv			07-DEC-2004 00:37	1.0			11	
027	341a027	SAMPLE	176268-010	97155	Soil	07-DEC-2004 01:06	2.0	0.09992	3		
028	341a028	SAMPLE	176268-013	97155	Soil	07-DEC-2004 01:36	1.0	0.09917	3		
029	341a029	SAMPLE	176268-017	97155	Soil	07-DEC-2004 02:06	5.0	0.09976	3		
030	341a030	SAMPLE	176268-002	97146	Soil	07-DEC-2004 02:35	1.0	0.09911	3		
031	341a031	SAMPLE	176268-014	97155	Soil	07-DEC-2004 03:05	3.0	0.0994	3		

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	341a032	SAMPLE	176402-001	97155	Soil	07-DEC-2004 03:35	5.0	0.1007	2	1	3	10:BUNKC:=37347.2	
033	341a033	SAMPLE	176268-001	97146	Soil	07-DEC-2004 04:04	2.0	0.1001			3		
034	341a034	SAMPLE	176402-002	97155	Soil	07-DEC-2004 04:34	10.0	0.1008			3	1:BUNKC:=15515.6	
035	341a035	SAMPLE	176268-011	97155	Soil	07-DEC-2004 05:03	20.0	0.1981			3		
036	341a036	SAMPLE	176268-016	97155	Soil	07-DEC-2004 05:33	1.0	0.09968			3		
037	341a037	CCV	dsl			07-DEC-2004 06:02	1.0	1.0			3	13	
038	341a038	CCV	mo			07-DEC-2004 06:32	1.0	1.0			3	12	
039	341a039	X	ccv			07-DEC-2004 07:01	1.0					13	

62

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 144505030 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 15-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	350b001	X	primer			15-DEC-2004 17:10	1.0						
002	350b002	X	ib			15-DEC-2004 17:37	1.0						
003	350b003	ICAL	dsl10			15-DEC-2004 18:05	1.0					1	
004	350b004	ICAL	dsl100			15-DEC-2004 18:33	1.0					2	
005	350b005	ICAL	dsl250			15-DEC-2004 19:01	1.0					3	
006	350b006	ICAL	dsl1000			15-DEC-2004 19:29	1.0					4	
007	350b007	ICAL	dsl2500			15-DEC-2004 19:58	1.0					5	
008	350b008	ICAL	dsl5000			15-DEC-2004 20:26	1.0					6	
009	350b009	X	ib			15-DEC-2004 20:54	1.0						
010	350b010	ICAL	mo50			15-DEC-2004 21:22	1.0					7	
011	350b011	ICAL	mo250			15-DEC-2004 21:50	1.0					8	
012	350b012	ICAL	mo500			15-DEC-2004 22:18	1.0					9	
013	350b013	ICAL	mo1000			15-DEC-2004 22:46	1.0					10	
014	350b014	ICAL	mo2500			15-DEC-2004 23:14	1.0					11	
015	350b015	ICAL	mo5000			15-DEC-2004 23:43	1.0					12	
016	350b016	X	ib			16-DEC-2004 00:11	1.0						
017	350b017	ICAL	hex5			16-DEC-2004 00:39	1.0					13	
018	350b018	ICAL	hex10			16-DEC-2004 01:07	1.0					14	
019	350b019	ICAL	hex25			16-DEC-2004 01:35	1.0					15	
020	350b020	ICAL	hex50			16-DEC-2004 02:04	1.0					16	
021	350b021	X	ib			16-DEC-2004 02:32	1.0						
022	350b022	ICV	dsl			16-DEC-2004 03:00	1.0					17	
023	350b023	CCV	dsl			16-DEC-2004 03:28	1.0					18	
024	350b024	CCV	mo			16-DEC-2004 03:56	1.0					19	
025	350b025	X	ib			16-DEC-2004 11:47	1.0						
026	350b026	ICAL	hex75			16-DEC-2004 12:15	1.0					20	
027	350b027	ICAL	dsl			16-DEC-2004 14:00	1.0					21	
028	350b028	X	ib			16-DEC-2004 14:27	1.0						
029	350b029	ICV	dsl			16-DEC-2004 14:55	1.0		3			17	

Stds used: 1=04WS2298 2=04WS2299 3=04WS2300 4=04WS2302 5=04WS2303 6=04WS2297 7=04WS2172 8=04WS2173 9=04WS2174 10=04WS2175 11=04WS2176 12=04WS2169 13=04WS2042 14=04WS2043 15=04WS2044 16=04WS2045 17=04WS2006 18=04WS2215 19=04WS2365 20=04WS2046 21=04WS2389

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114506134 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	351a001	X	ib			16-DEC-2004 11:34	1.0				
002	351a002	ICAL	hex5			16-DEC-2004 12:04	1.0	1.0		1	
003	351a003	ICAL	hex10			16-DEC-2004 12:33	1.0	1.0		2	
004	351a004	ICAL	hex25			16-DEC-2004 13:02	1.0	1.0		3	
005	351a005	ICAL	hex50			16-DEC-2004 13:31	1.0	1.0		4	
006	351a006	ICAL	hex75			16-DEC-2004 14:00	1.0	1.0		5	
007	351a007	X	ib			16-DEC-2004 15:12	1.0				
008	351a008	CCV	dsl			16-DEC-2004 15:41	1.0	1.0	3	6	
009	351a009	CCV	mo			16-DEC-2004 16:10	1.0	1.0	3	7	
010	351a010	SAMPLE	176613-016	97463	Soil	16-DEC-2004 16:44	1.0	0.0994	3		
011	351a011	SAMPLE	176613-014	97463	Soil	16-DEC-2004 17:13	1.0	0.1000	3		
012	351a012	SAMPLE	176613-011	97463	Soil	16-DEC-2004 17:42	1.0	0.09901	3		
013	351a013	SAMPLE	176613-010	97463	Soil	16-DEC-2004 18:12	1.0	0.09994	3		
014	351a014	SAMPLE	176613-008	97463	Soil	16-DEC-2004 18:41	1.0	0.09917	3		
015	351a015	SAMPLE	176613-006	97463	Soil	16-DEC-2004 19:10	1.0	0.09992	3		
016	351a016	SAMPLE	176613-004	97463	Soil	16-DEC-2004 19:39	1.0	0.09944	3		
017	351a017	SAMPLE	176613-003	97463	Soil	16-DEC-2004 20:08	1.0	0.09932	3		
018	351a018	SAMPLE	176613-001	97463	Soil	16-DEC-2004 20:38	1.0	0.09998	3		
019	351a019	LCS	QC276443 S	97521	Soil	16-DEC-2004 21:07	1.0	0.1002	3		
020	351a020	CCV	dsl			16-DEC-2004 21:36	1.0	1.0	3	8	
021	351a021	CCV	mo			16-DEC-2004 22:06	1.0	1.0	3	7	
022	351a022	X	ccv			16-DEC-2004 22:35	1.0			8	

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2215 7=04WS2365 8=04WS2207

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114516080 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	358a001	X	primer			23-DEC-2004 09:20	1.0						
002	358a002	X	ib			23-DEC-2004 09:49	1.0						
003	358a003	CCV	dsl			23-DEC-2004 10:18	1.0	1.0			3	1	
004	358a004	CCV	mo			23-DEC-2004 10:48	1.0	1.0			3	2	
005	358a005	SAMPLE	176741-004 S	97677	Water	23-DEC-2004 11:25	1.0	0.005			3		
006	358a006	SAMPLE	176741-003 S	97677	Water	23-DEC-2004 11:54	1.0	0.005			3		
007	358a007	CCV	dsl			23-DEC-2004 12:23	1.0	1.0			3	3	
008	358a008	CCV	mo			23-DEC-2004 12:53	1.0	1.0			3	2	
009	358a009	BLANK	QC277372	97762	Soil	23-DEC-2004 13:22	1.0	0.1007	7		3		
010	358a010	LCS	QC277373	97762	Soil	23-DEC-2004 13:52	1.0	0.1005			3		
011	358a011	SAMPLE	176662-010 S	97722	Water	23-DEC-2004 14:21	1.0	0.005			3		
012	358a012	SAMPLE	176758-016	97762	Soil	23-DEC-2004 14:51	10.0	0.1001			3		
013	358a013	SAMPLE	176756-002	97722	Water	23-DEC-2004 15:20	1.0	0.005			3		
014	358a014	SAMPLE	176723-001 S	97758	Water	23-DEC-2004 15:49	1.0	0.005			3		
015	358a015	SAMPLE	176760-001	97762	Soil	23-DEC-2004 16:19	5.0	0.1003			3		1:BUNKC:=8661.71
016	358a016	SAMPLE	176756-001	97722	Water	23-DEC-2004 16:48	1.0	0.005			3		1:BUNKC:=15387.4
017	358a017	X	ib			23-DEC-2004 17:17	1.0						
018	358a018	SAMPLE	176758-014	97762	Soil	23-DEC-2004 17:46	5.0	0.1003			3		
019	358a019	SAMPLE	176758-012	97762	Soil	23-DEC-2004 18:16	5.0	0.1007		1	3		1:BUNKC:=5901.88
020	358a020	X	ib			23-DEC-2004 18:45	1.0						
021	358a021	CCV	dsl			23-DEC-2004 19:14	1.0	1.0			3	4	
022	358a022	CCV	mo			23-DEC-2004 19:43	1.0	1.0			3	2	
023	358a023	X	ccv			23-DEC-2004 20:12	1.0					4	
024	358a024	BLANK	QC277361 S	97758	Water	23-DEC-2004 20:41	1.0	0.005	7		3		
025	358a025	BS	QC277362 S	97758	Water	23-DEC-2004 21:10	1.0	0.005			3		
026	358a026	BSD	QC277363 S	97758	Water	23-DEC-2004 21:39	1.0	0.005			3		
027	358a027	SAMPLE	176723-002 S	97758	Water	23-DEC-2004 22:08	1.0	0.005			3		
028	358a028	SAMPLE	176723-003 S	97758	Water	23-DEC-2004 22:37	1.0	0.005			3		
029	358a029	SAMPLE	176723-004 S	97758	Water	23-DEC-2004 23:07	1.0	0.005			3		
030	358a030	SAMPLE	176723-005 S	97758	Water	23-DEC-2004 23:36	1.0	0.005			3		
031	358a031	SAMPLE	176723-006 S	97758	Water	24-DEC-2004 00:05	1.0	0.005			3		

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114516080 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	358a032	SAMPLE	176723-008 S	97758	Water	24-DEC-2004 00:34	1.0	0.005	3		
033	358a033	SAMPLE	176723-009 S	97758	Water	24-DEC-2004 01:03	1.0	0.005	3		
034	358a034	CCV	dsl			24-DEC-2004 01:33	1.0	1.0	3	1	
035	358a035	CCV	mo			24-DEC-2004 02:02	1.0	1.0	3	2	
036	358a036	X	ccv04ws2358			24-DEC-2004 02:31	1.0				
037	358a037	SAMPLE	176726-002 S	97758	Water	24-DEC-2004 03:00	1.0	0.005	3		
038	358a038	SAMPLE	176726-001 S	97758	Water	24-DEC-2004 03:29	1.0	0.005	3		
039	358a039	SAMPLE	176705-016 S	97758	Water	24-DEC-2004 03:58	1.0	0.005	3		
040	358a040	SAMPLE	176705-015 S	97758	Water	24-DEC-2004 04:28	1.0	0.005	3		
041	358a041	SAMPLE	176705-014 S	97758	Water	24-DEC-2004 04:57	1.0	0.005	3		
042	358a042	SAMPLE	176705-013 S	97758	Water	24-DEC-2004 05:26	1.0	0.005	3		
043	358a043	SAMPLE	176705-012 S	97758	Water	24-DEC-2004 05:55	1.0	0.005	3		
044	358a044	SAMPLE	176705-008 S	97758	Water	24-DEC-2004 06:24	1.0	0.005	3		
045	358a045	SAMPLE	176705-004 S	97758	Water	24-DEC-2004 06:54	1.0	0.005	3		
046	358a046	SAMPLE	176705-003 S	97758	Water	24-DEC-2004 07:23	1.0	0.005	3		
047	358a047	CCV	dsl			24-DEC-2004 07:52	1.0	1.0	3	3	
048	358a048	CCV	mo			24-DEC-2004 08:21	1.0	1.0	3	2	
049	358a049	X	ccv			24-DEC-2004 08:51	1.0			3	
050	358a050	SAMPLE	176705-002 S	97758	Water	24-DEC-2004 09:20	1.0	0.005	3		
051	358a051	SAMPLE	176705-001 S	97758	Water	24-DEC-2004 09:49	1.0	0.005	3		
052	358a052	CCV	dsl			24-DEC-2004 10:19	1.0	1.0	3	4	
053	358a053	CCV	mo			24-DEC-2004 10:48	1.0	1.0	3	2	
054	358a054	X	ccv			24-DEC-2004 11:17	1.0			4	

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 144516104 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	358b001	X	primer			23-DEC-2004 09:44	1.0					
002	358b002	X	ib			23-DEC-2004 10:12	1.0					
003	358b003	CCV	dsl			23-DEC-2004 11:38	1.0	1.0		3	1	
004	358b004	CCV	mo			23-DEC-2004 12:06	1.0	1.0	1	3	2	
005	358b005	LCS	QC277218 S	97722	Water	23-DEC-2004 12:39	1.0	0.005		3		
006	358b006	BLANK	QC277217 S	97722	Water	23-DEC-2004 13:07	1.0	0.005	10	3		
007	358b007	MS	QC277219	97722	Water	23-DEC-2004 13:35	1.0	0.005		3		
008	358b008	MSD	QC277220	97722	Water	23-DEC-2004 14:03	1.0	0.005		3		
009	358b009	SAMPLE	176683-002	97722	Water	23-DEC-2004 14:31	1.0	0.005		3		
010	358b010	SAMPLE	176683-003	97722	Water	23-DEC-2004 14:59	1.0	0.005		3		
011	358b011	SAMPLE	176683-004	97722	Water	23-DEC-2004 15:27	1.0	0.005		3		
012	358b012	MSS	176683-005	97722	Water	23-DEC-2004 15:55	1.0	0.005	10	3		
013	358b013	SAMPLE	176652-001	97722	Water	23-DEC-2004 16:23	1.0	0.005		3		
014	358b014	SAMPLE	176652-007	97722	Water	23-DEC-2004 16:51	1.0	0.005		3		
015	358b015	CCV	dsl			23-DEC-2004 17:19	1.0	1.0		3	3	
016	358b016	CCV	mo			23-DEC-2004 17:47	1.0	1.0	1	3	2	
017	358b017	X	ccv			23-DEC-2004 18:15	1.0				3	
018	358b018	SAMPLE	176652-008	97722	Water	23-DEC-2004 18:42	1.0	0.005		3		
019	358b019	SAMPLE	176652-009	97722	Water	23-DEC-2004 19:11	1.0	0.005		3		
020	358b020	SAMPLE	176652-010	97722	Water	23-DEC-2004 19:38	1.0	0.005		3		
021	358b021	SAMPLE	176623-003 S	97722	Water	23-DEC-2004 20:06	1.0	0.005		3		
022	358b022	SAMPLE	176623-004 S	97722	Water	23-DEC-2004 20:34	1.0	0.005		3		
023	358b023	SAMPLE	176662-005 S	97722	Water	23-DEC-2004 21:02	1.0	0.005		3		
024	358b024	SAMPLE	176662-006 S	97722	Water	23-DEC-2004 21:30	1.0	0.005		3		
025	358b025	SAMPLE	176662-007 S	97722	Water	23-DEC-2004 21:58	1.0	0.005		3		
026	358b026	SAMPLE	176662-008 S	97722	Water	23-DEC-2004 22:26	1.0	0.005		3		
027	358b027	SAMPLE	176662-009 S	97722	Water	23-DEC-2004 22:54	1.0	0.005		3		
028	358b028	CCV	dsl			23-DEC-2004 23:21	1.0	1.0		3	4	
029	358b029	CCV	mo			23-DEC-2004 23:49	1.0	1.0	1	3	2	
030	358b030	X	ccv			24-DEC-2004 00:17	1.0				4	
031	358b031	BLANK	QC277407 S	97768	Water	24-DEC-2004 00:45	1.0	0.005	10	3		

Stds used: 1=04WS2215 2=04WS2365 3=04WS2406 4=04WS2258 5=04WS2358

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 144516104 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	358b032	X	QC277408 S	97768	Water	24-DEC-2004 01:13	1.0	0.005			3		
033	358b033	BSD	QC277409 S	97768	Water	24-DEC-2004 01:41	1.0	0.005			3		
034	358b034	SAMPLE	176776-001 S	97768	Water	24-DEC-2004 02:08	1.0	0.005			3		
035	358b035	SAMPLE	176776-002 S	97768	Water	24-DEC-2004 02:36	1.0	0.005			3		
036	358b036	SAMPLE	176776-003 S	97768	Water	24-DEC-2004 03:04	1.0	0.005			3		
037	358b037	SAMPLE	176776-004 S	97768	Water	24-DEC-2004 03:32	1.0	0.005			3		
038	358b038	SAMPLE	176776-005 S	97768	Water	24-DEC-2004 04:00	1.0	0.005			3		
039	358b039	SAMPLE	176776-006 S	97768	Water	24-DEC-2004 04:28	1.0	0.005		1	3		
040	358b040	SAMPLE	176776-007 S	97768	Water	24-DEC-2004 04:56	1.0	0.005			3		
041	358b041	CCV	dsl			24-DEC-2004 05:24	1.0	1.0			3	5	
042	358b042	CCV	mo			24-DEC-2004 05:52	1.0	1.0	1		3	2	
043	358b043	X	ccv			24-DEC-2004 06:20	1.0					5	
044	358b044	SAMPLE	176791-003 S	97768	Water	24-DEC-2004 06:48	1.0	0.005			3		
045	358b045	SAMPLE	176791-001 S	97768	Water	24-DEC-2004 07:16	1.0	0.005			3		
046	358b046	SAMPLE	176791-002 S	97768	Water	24-DEC-2004 07:44	1.0	0.005		1	3		
047	358b047	SAMPLE	176791-004 S	97768	Water	24-DEC-2004 08:12	1.0	0.005			3		
048	358b048	SAMPLE	176791-005 S	97768	Water	24-DEC-2004 08:40	1.0	0.005			3		
049	358b049	SAMPLE	176791-006 S	97768	Water	24-DEC-2004 09:08	1.0	0.005			3		
050	358b050	SAMPLE	176791-007 S	97768	Water	24-DEC-2004 09:36	1.0	0.005			3		
051	358b051	SAMPLE	176791-008 S	97768	Water	24-DEC-2004 10:04	1.0	0.005			3		
052	358b052	SAMPLE	176791-009 S	97768	Water	24-DEC-2004 10:31	1.0	0.005			3		
053	358b053	SAMPLE	176791-010 S	97768	Water	24-DEC-2004 10:59	1.0	0.005			3		
054	358b054	CCV	dsl			24-DEC-2004 11:27	1.0	1.0			3	3	
055	358b055	CCV	mo			24-DEC-2004 11:55	1.0	1.0	1		3	2	
056	358b056	X	ccv			24-DEC-2004 12:23	1.0					3	
057	358b057	SAMPLE	176791-011 S	97768	Water	24-DEC-2004 12:51	1.0	0.005			3		
058	358b058	SAMPLE	176791-012 S	97768	Water	24-DEC-2004 13:18	1.0	0.005			3		
059	358b059	SAMPLE	176791-013 S	97768	Water	24-DEC-2004 13:46	1.0	0.005			3		
060	358b060	CCV	dsl			24-DEC-2004 14:14	1.0	1.0			3	4	
061	358b061	CCV	mo			24-DEC-2004 14:43	1.0	1.0	1		3	2	
062	358b062	X	ccv			24-DEC-2004 15:11	1.0					4	

Stds used: 1=04WS2215 2=04WS2365 3=04WS2406 4=04WS2258 5=04WS2358

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
176662-005	GC15B	12/22/04 20:21	1.0				
176662-005	GC13B	12/23/04 21:02	1.0	+	+	+	
176662-006	GC15B	12/22/04 20:50	1.0				
176662-006	GC13B	12/23/04 21:30	1.0	+	+	+	
176662-007	GC15B	12/22/04 21:19	1.0				
176662-007	GC13B	12/23/04 21:58	1.0	+	+	+	
176662-008	GC15B	12/22/04 21:48	1.0				
176662-008	GC13B	12/23/04 22:26	1.0	+	+	+	
176662-009	GC15B	12/22/04 22:18	1.0				
176662-009	GC13B	12/23/04 22:54	1.0	+	+	+	
176662-010	GC15B	12/22/04 22:47	1.0				
176662-010	GC11A	12/23/04 14:21	1.0	+	+	+	
QC277217	GC15B	12/22/04 18:54	1.0				
QC277217	GC13B	12/23/04 13:07	1.0	+	+	+	
QC277218	GC15B	12/22/04 18:25	1.0				
QC277218	GC13B	12/23/04 12:39	1.0	+		+	
QC277219	GC13B	12/23/04 13:35	1.0	+		+	
QC277220	GC13B	12/23/04 14:03	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 22-DEC-2004 17:21

Batch Number : 97722
Date Extracted: 21-DEC-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : ml
Clean-up :

Spike #1 ID : 04WS2345C
Spike #2 ID : 04WS2342E
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176623-003			Weston Solutions	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176623-004			Weston Solutions	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176652-001			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-007			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-008			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-009			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-010			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176662-005			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	8	.5			TEHM	3630C	sg
176662-006			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-007			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-008			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-009			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-010			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176683-002			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176683-003			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176683-004			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176683-005			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		MSS
176756-001			SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176758-002			SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
QC277217	MB			Water	500	ml	2.5	0.005000	1		.5			TEH	3630C	sg
QC277218	LCS			Water	500	ml	2.5	0.005000	1		.5	.5		TEH	3630C	sg
QC277219	MS	of 176683-005		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH		
QC277220	MSD	of 176683-005		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH		

Prep Chemist: JCK FJK JDM Reviewed By: [illegible] Date: 22-DEC-04

Relinquished By: [illegible] Received By: [illegible] Date: 12/22/04

Curtis & Tompkins, Ltd.

TEH WATER PREP LOG

BK2010

LIMS Batch No: 97722
LIMS Analysis: TEH
Extracted by: JDM
Date Extracted: 21Dec04

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐

Page: 66

Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
176623-003H	500	6	2.5	X	
-004E					
176652-006D					
-007D					
-008					
-009					
-010V					
176602-005F		8		X	
-006G		6			
-007F					
-008					
-009G					
-010					
176683-002E					
-003					
-004					
-005					MSS
176756-001H					
-002					
MB BC271217		N/A			
LCS 18					
MS 19					176683-005J
MSD 20					J/E

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH SURR was added to all samples	CHUS2345C	JDM 21Dec04
0.5 mL of TEH SP was added to all samples	~~CHUS2225C~~ CHUS2342E	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	JTB A20036	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM44302	
Extraction Start Time:	1515	
Extraction End Time:	0915	JKD 12/22/04
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	N/A	12/22/04 KB
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM44135439	
Concentrated to volumes as noted above	✓	

Jessica Mee 21Dec04
Extraction Chemist

Continued from page ____
Continued on page ____

KB 22 DEC 04

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KR

Cleanup Date: 22-DEC-04

Benchbook # **BK 2028**

Page 62

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
17674-003	97677	0.5	0.5	
↓	↓	0.5	↓	
MB 8C27227	97683	1.0	1.0	
1B	↓			
17663-003				
↓ 4				
17667-003				
6				
7				
8				
9				
↓ 10	↓	↓	↓	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled 1.0 g columns	JTBV33332	KR 22 DEC 04
☐ Extracts were cleaned up using ____ g cartridges	N/A	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	BM44362	
Concentrated to volumes as noted above	↓	

K fg 22 DEC 04

Continued from page ____

Continued on page ____

6/21/04

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water 3520

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	07/15/03 19	07/10/03 17	07/09/03 33	07/10/03 34
Diesel C10-C20	ug/L		12/23/03 25	12/30/03 37	12/23/03 22
Diesel C10-C22	ug/L	12/23/03 22	12/23/03 26	12/30/03 36	12/23/03 22
Diesel C10-C24	ug/L	12/23/03 24	12/23/03 28	12/30/03 33	12/23/03 35
Diesel C10-C28	ug/L	12/23/03 29	12/23/03 30	12/30/03 30	12/23/03 45
Diesel C12-C28	ug/L		12/23/03 31		
Diesel C12-C36	ug/L	12/23/03 29	12/23/03 36		
Diesel C12-C32	ug/L			12/30/03 29	12/23/03 47
Diesel C12-C24	ug/L	12/23/03 22	12/23/03 28	12/30/03 32	12/23/03 38
Diesel C12-C22	ug/L	12/23/03 21	12/23/03 27	12/30/03 35	12/23/03 24
Diesel C10-C40	ug/L	03/09/03 37		03/15/03 46	
Motor Oil C20-C36	ug/L	04/03/04 220	04/02/04 120	04/09/04 120	04/02/04 86
Motor Oil C22-C36	ug/L	04/03/04 210	04/02/04 120	04/09/04 120	04/02/04 84
Motor Oil C24-C36	ug/L	04/03/04 170	04/02/04 120	04/09/04 110	04/02/04 78
Motor Oil C22-C32	ug/L	04/03/04 200	04/02/04 140	04/09/04 120	04/02/04 95
Hexacosane	ug/L	08/15/03 11	08/15/03 21	08/14/03 5.4	08/22/03 3.8

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF4GW103	Batch#:	97705
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/21/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	105	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	122 *	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF4GW104	Batch#:	97705
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/21/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	122 *	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF4GW105	Batch#:	97705
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/21/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	102	88-110
Bromofluorobenzene	123 *	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	LF4GW106	Batch#:	97705
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/21/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	106	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	123 *	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB1214041A	Batch#:	97760
Lab ID:	176662-011	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/22/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.05
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	94	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	99	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277137	Batch#:	97705
Matrix:	Water	Analyzed:	12/21/04
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-120
1,2-Dichloroethane-d4	104	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	119 *	86-115

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277369	Batch#:	97760
Matrix:	Water	Analyzed:	12/22/04
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.05
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	96	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC277368	Batch#:	97760
Matrix:	Water	Analyzed:	12/22/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.72	115	65-135
Benzene	25.00	26.11	104	65-135
Trichloroethene	25.00	26.64	107	65-135
Toluene	25.00	26.24	105	65-135
Chlorobenzene	25.00	25.70	103	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	96	86-115

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	97705
Units:	ug/L	Analyzed:	12/21/04
Diln Fac:	1.000		

Type: BS Lab ID: QC277135

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	28.94	116	65-135
Benzene	25.00	26.41	106	65-135
Trichloroethene	25.00	26.41	106	65-135
Toluene	25.00	25.90	104	65-135
Chlorobenzene	25.00	26.84	107	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	96	86-115

Type: BSD Lab ID: QC277136

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.45	110	65-135	5	35
Benzene	25.00	25.66	103	65-135	3	35
Trichloroethene	25.00	25.04	100	65-135	5	35
Toluene	25.00	25.65	103	65-135	1	35
Chlorobenzene	25.00	26.22	105	65-135	2	35

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	100	86-115

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	97760
MSS Lab ID:	176683-005	Sampled:	12/15/04
Matrix:	Water	Received:	12/16/04
Units:	ug/L	Analyzed:	12/23/04
Diln Fac:	1.000		

Type: MS Lab ID: QC277424

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.09700	25.00	30.70	123	65-135
Benzene	<0.04900	25.00	26.86	107	65-135
Trichloroethene	1.105	25.00	28.51	110	65-135
Toluene	<0.06300	25.00	26.01	104	65-135
Chlorobenzene	<0.03000	25.00	25.19	101	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	102	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	98	86-115

Type: MSD Lab ID: QC277425

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	32.94	132	65-135	7	35
Benzene	25.00	27.88	112	65-135	4	35
Trichloroethene	25.00	29.67	114	65-135	4	35
Toluene	25.00	27.18	109	65-135	4	35
Chlorobenzene	25.00	26.70	107	65-135	6	35

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	100	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

8260W ICAL

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM02.D

Date : 22-NOV-2004 09:29

Client ID: bfb tune std

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

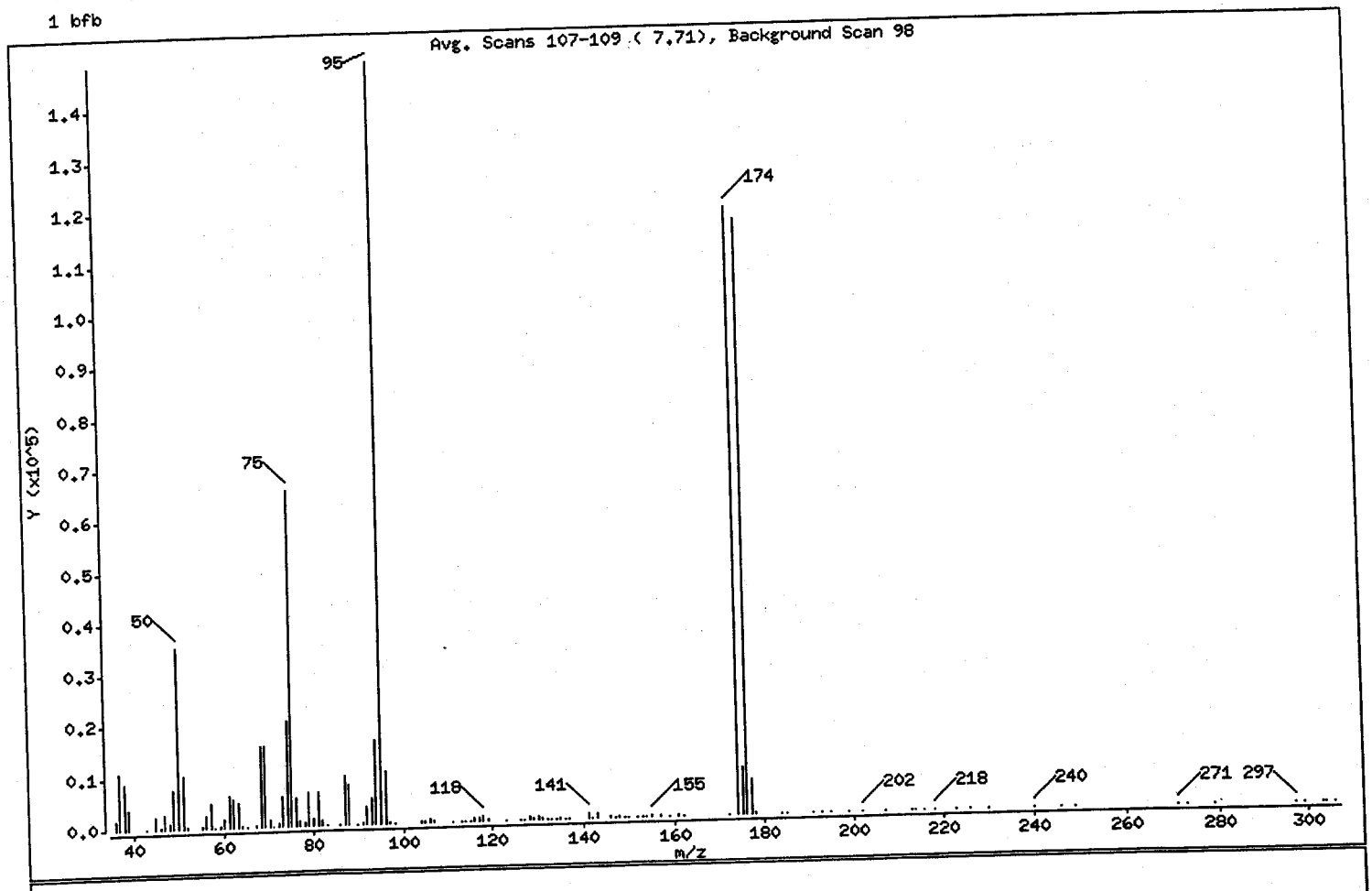
Column phase:

Instrument: MSVOA06.i

Operator: BO

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.70
75	30.00 - 60.00% of mass 95	44.10
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	79.92
175	5.00 - 9.00% of mass 174	6.19 (7.74)
176	95.01 - 100.99% of mass 174	78.31 (97.98)
177	5.00 - 9.00% of mass 176	4.67 (5.96)

pr 112304

11/23/04

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\122104.b\FLL02.D

Date : 21-DEC-2004 09:02

Client ID: bfb tune std

Instrument: MSVOA06.i

Sample Info: BFB,04WS1238

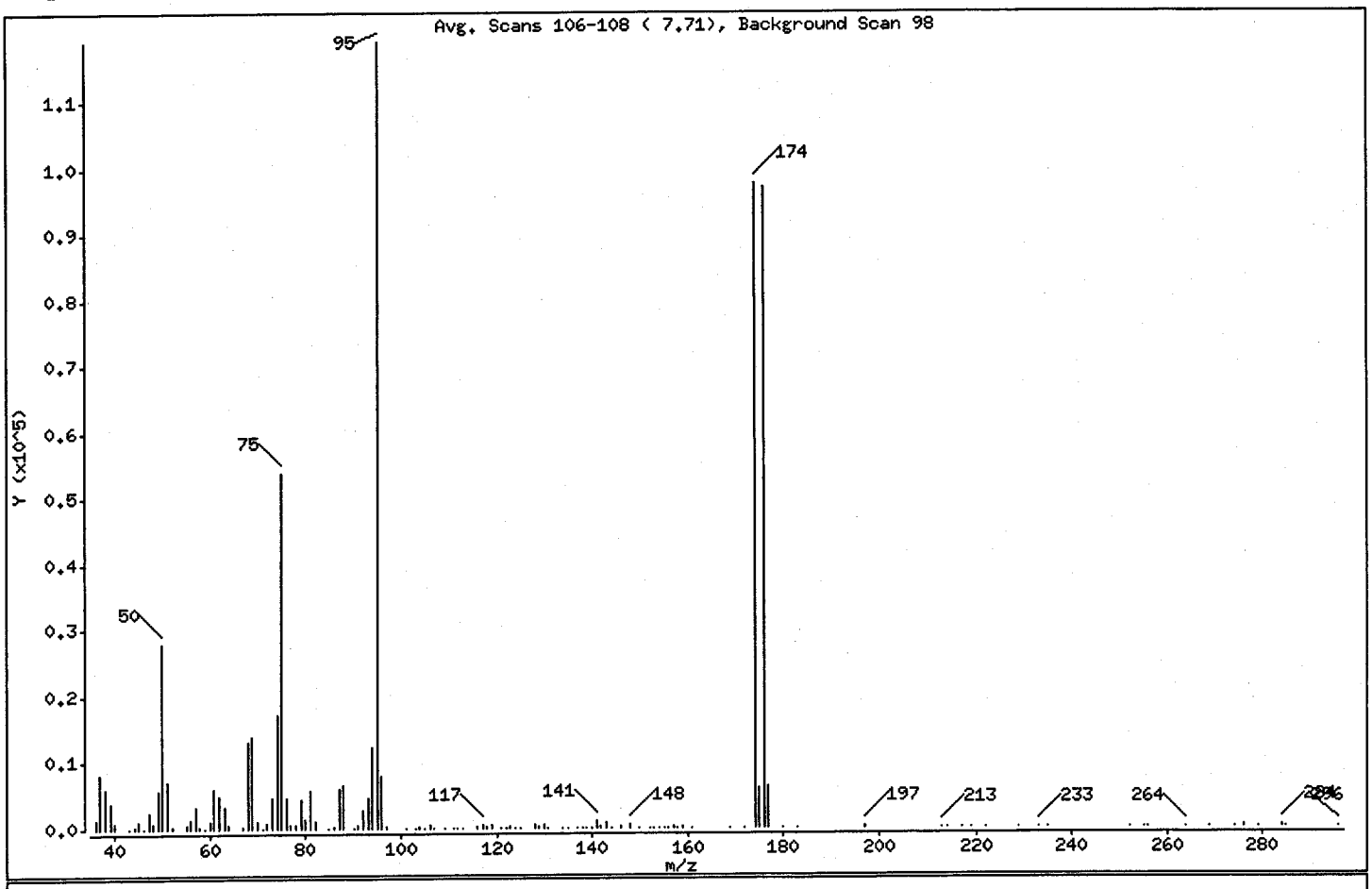
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.46
75	30.00 - 60.00% of mass 95	45.30
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	82.01
175	5.00 - 9.00% of mass 174	5.13 (6.26)
176	95.01 - 100.99% of mass 174	81.57 (99.47)
177	5.00 - 9.00% of mass 176	5.25 (6.44)

moldzlkw

a
12/22/04

MSVOA10 8260/GASOX W. ICAL TUNE

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\112304.b\JKN06.D

Date : 23-NOV-2004 17:44

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,04WS1238

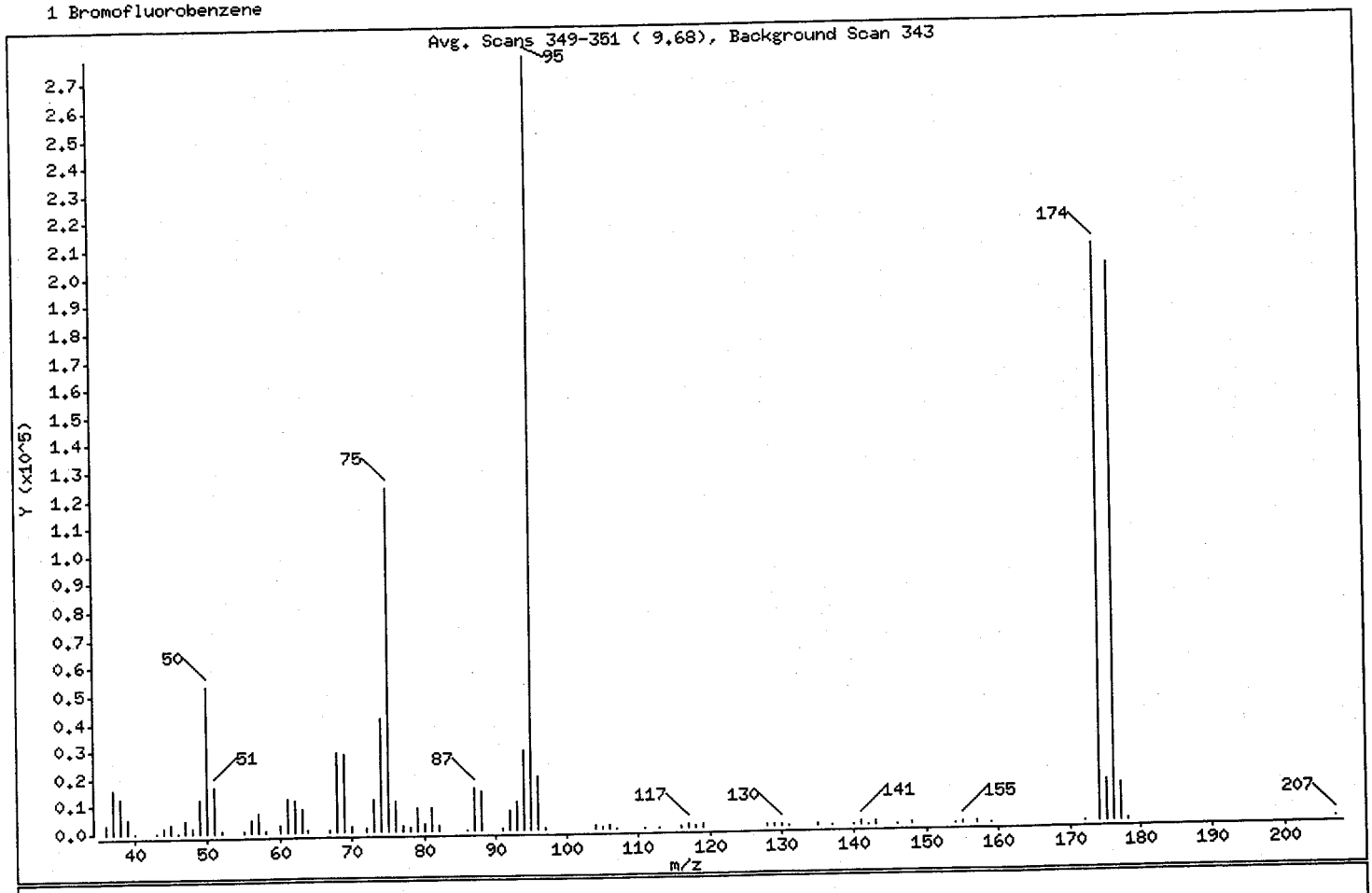
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.18
75	30.00 - 60.00% of mass 95	44.40
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	74.56
175	5.00 - 9.00% of mass 174	5.35 (7.17)
176	95.01 - 100.99% of mass 174	71.97 (96.53)
177	5.00 - 9.00% of mass 176	4.78 (6.64)

11/24/04 87

11/24/04

Data File: \\GCMSSERVER\DD\chem\MSVOA10.i\122204.b\JLM09.D

Date : 22-DEC-2004 16:44

Client ID: bfb tune std

Instrument: MSVOA10.i

Sample Info: BFB,04WS1238

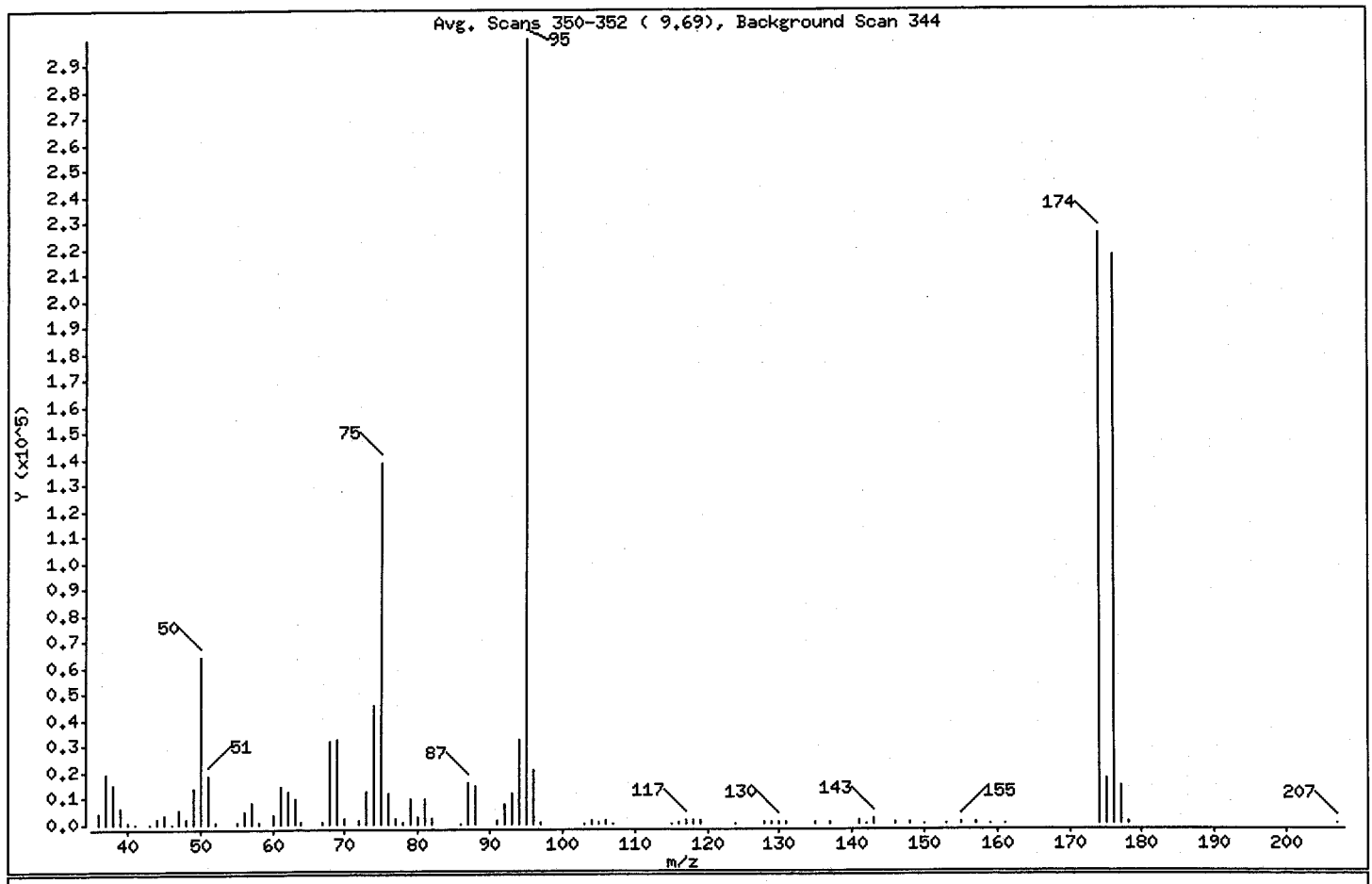
Volume Injected (uL): 1.0

Operator: VOC

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.47
75	30.00 - 60.00% of mass 95	46.18
96	5.00 - 9.00% of mass 95	6.89
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	75.11
175	5.00 - 9.00% of mass 174	5.74 (7.64)
176	95.01 - 100.99% of mass 174	72.30 (96.27)
177	5.00 - 9.00% of mass 176	4.89 (6.76)

B 01/23/04

8260W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06 Reviewed By:
Calnum: 454471408001 Name: I6M826W Type: WATER Date: 22-NOV-2004 10:36 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	fkm04	454471408004	0.5/1PPB	22-NOV-2004 10:36	04SS393 (500000X), 04WS2167A (500000X), 04WS2204A (1000000X), 04WS2097 (1000X)
2	fkm05	454471408005	5PPB	22-NOV-2004 11:11	04SS393 (100000X), 04WS2167A (50000X), 04WS2204A (200000X), 04WS2097 (1000X)
3	fkm06	454471408006	10PPB	22-NOV-2004 11:45	04SS393 (50000X), 04WS2167A (25000X), 04WS2204A (100000X), 04WS2097 (1000X)
4	fkm07	454471408007	20PPB	22-NOV-2004 12:20	04SS393 (25000X), 04WS2167A (12500X), 04WS2204A (50000X), 04WS2097 (1000X)
5	fkm08	454471408008	50PPB	22-NOV-2004 12:54	04SS393 (10000X), 04WS2167A (5000X), 04WS2204A (20000X), 04WS2097 (1000X)
6	fkm10	454471408010	100PPB	22-NOV-2004 14:07	04SS393 (5000X), 04WS2167A (2500X), 04WS2204A (10000X), 04WS2097 (1000X)
7	fkm13	454471408013	75PPB	22-NOV-2004 15:53	04SS393 (6667X), 04WS2167A (3333X), 04WS2204A (13333X), 04WS2097 (1000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.6314	0.7476	0.6095	0.8427	0.8732	0.7628	0.7543	AVRG	R		1.340632		ug/L	0.7459	13	0.0500	0.99	15	
Chloromethane	0.8832	0.7716	0.7662	0.8252	0.7169	0.6383	0.7130	AVRG	R		1.317162		ug/L	0.7592	11	0.1000	0.99	15	
Vinyl Chloride	0.3693m	0.4245	0.3537	0.4210	0.3805	0.2963m	0.3110m	AVRG	R		2.738319		ug/L	0.3652	14	0.0500	0.99	15	
Bromomethane	0.4933m	0.3735	0.3561	0.4004	0.3996	0.3867	0.3436	AVRG	R		2.542470		ug/L	0.3933	12	0.0500	0.99	15	
Chloroethane	0.3136	0.2826	0.3032m	0.3373	0.3084	0.2808	0.2818	AVRG	R		3.321135		ug/L	0.3011	7	0.0500	0.99	15	
Trichlorofluoromethane	0.7136	0.7376	0.6281	0.8598	0.8216	0.6939	0.7234	AVRG	R		1.351864		ug/L	0.7397	11	0.0500	0.99	15	
Acetone		0.3106m	0.3398	0.3172	0.3250	0.2976	0.3841	AVRG	R		3.038781		ug/L	0.3291	9	0.0500	0.99	15	
Freon 113	0.4331m	0.4788	0.4236	0.4901	0.4959	0.5468	0.5599	AVRG	R		2.041951		ug/L	0.4897	11	0.0500	0.99	15	
1,1-Dichloroethene	0.5931	0.5674	0.5060	0.5562	0.5658	0.5692	0.5908	AVRG	R		1.772823		ug/L	0.5641	5	0.0500	0.99	15	
Methylene Chloride		0.8383	0.7871	0.8232	0.7843	0.7532	0.7610	AVRG	R		1.263914		ug/L	0.7912	4	0.0500	0.99	15	
Carbon Disulfide	2.3045	2.1623	1.8948	2.0873	2.0038	1.8378	1.9466	AVRG	R		0.491674		ug/L	2.0339	8	0.0500	0.99	15	
MTBE	1.6608m	1.6640	1.6931	1.7441	1.6765	1.6093	1.6282	AVRG	R		0.599516		ug/L	1.6680	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.6391	0.6767	0.6098	0.6928	0.6735	0.6520	0.6680	AVRG	R		1.517829		ug/L	0.6588	4	0.0500	0.99	15	
Vinyl Acetate		1.9124	1.9495	2.0186	1.9014	1.7267	1.7779	AVRG	R		0.531613		ug/L	1.8811	6	0.0500	0.99	15	
1,1-Dichloroethane	1.3089m	1.4654	1.3644	1.4363	1.3246	1.2645	1.2796	AVRG	R		0.741231		ug/L	1.3491	6	0.1000	0.99	15	
2-Butanone		0.5066	0.5403	0.5457	0.5081	0.4891	0.5450	AVRG	R		1.913973		ug/L	0.5225	5	0.0500	0.99	15	
2,2-Dichloropropane	0.7651	0.8019	0.7527	0.8052	0.8048	0.7624	0.8722	AVRG	R		1.258016		ug/L	0.7949	5	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.7017	0.7502	0.7425	0.7917	0.7543	0.7214	0.7379	AVRG	R		1.346227		ug/L	0.7428	4	0.0500	0.99	15	

Flags used: m=manual integration for incomplete integration in Target
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

* ICAL - OK
- 124TCB, HxClbdn, 123TCB to 75ppb
- 3rd con missing for 1112 PCE @ 0.5ppb

* ICV - 2CLEVE ↓, USACC - Fr113 ↑

pz 11/23/04

11/23/04

8260 W LCAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06 Reviewed By:
Calnum: 454471408001 Name: I6M826W Type: WATER Date: 22-NOV-2004 10:36 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	1.9189	1.3502	1.2466	1.2949	1.2438	1.1538	1.1696	QUAD	R	-0.10873	0.758603	9.733E-4	ug/L	1.3397	1.000	0.0500	0.99	15	
Bromochloromethane	0.3971	0.3738	0.3719	0.3852	0.3773	0.3746	0.3783	AVRG	R		2.633471		ug/L	0.3797	2	0.0500	0.99	15	
1,1,1-Trichloroethane	0.8031	0.8439	0.8013	0.8840	0.8872	0.8671	0.8758	AVRG	R		1.174017		ug/L	0.8518	4	0.0500	0.99	15	
1,1-Dichloropropene	0.4254	0.4451	0.4021	0.4631	0.4599	0.4625	0.4818	AVRG	R		2.229360		ug/L	0.4486	6	0.0500	0.99	15	
Carbon Tetrachloride	0.3896	0.3638	0.3228	0.3735	0.3939	0.4116	0.4260	AVRG	R		2.610662		ug/L	0.3830	9	0.0500	0.99	15	
1,2-Dichloroethane	0.5392	0.5734	0.5623	0.5753	0.5561	0.5408	0.5406	AVRG	R		1.800554		ug/L	0.5554	3	0.0500	0.99	15	
Benzene	1.4615	1.4545	1.4050	1.4391	1.3769	1.2586	1.3076	AVRG	R		0.721421		ug/L	1.3862	6	0.0500	0.99	15	
Trichloroethene	0.4313	0.3753	0.3532	0.3772	0.3763	0.3726	0.3835	AVRG	R		2.622290		ug/L	0.3813	6	0.0500	0.99	15	
1,2-Dichloropropane	0.4413	0.4670	0.4419	0.4692	0.4590	0.4489	0.4494	AVRG	R		2.203574		ug/L	0.4538	3	0.0500	0.99	15	
Bromodichloromethane	0.4916m	0.5570	0.5319	0.5421	0.5364	0.5246	0.5264	AVRG	R		1.886819		ug/L	0.5300	4	0.0500	0.99	15	
Dibromomethane	0.3423	0.3638	0.3609	0.3775	0.3773	0.3666	0.3702	AVRG	R		2.735808		ug/L	0.3655	3	0.0500	0.99	15	
2-Chloroethylvinylether		0.2240	0.2571	0.2577	0.2739	0.2720	0.2741	AVRG	R		3.849068		ug/L	0.2598	7	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.5505	0.5879	0.5794	0.5845	0.5655	0.5789	AVRG	R		1.740790		ug/L	0.5745	2	0.0500	0.99	15	
Tetramethyl THF	0.9683	1.1140	1.1693	1.1598	1.1445	1.0779	1.1021	AVRG	R		0.904878		ug/L	1.1051	6	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.5681	0.6319	0.6138	0.6444	0.6254	0.6081	0.6223	AVRG	R		1.622621		ug/L	0.6163	4	0.0500	0.99	15	
Toluene	0.7983m	0.8618	0.7989	0.8556	0.8301	0.7942	0.8125	AVRG	R		1.217084		ug/L	0.8216	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.4359	0.5545	0.5479	0.5643	0.5700	0.5501	0.5592	AVRG	R		1.850874		ug/L	0.5403	9	0.0500	0.99	15	
1,1,2-Trichloroethane	0.2240	0.2346m	0.2321m	0.2385	0.2406	0.2436	0.2378	AVRG	R		4.239455		ug/L	0.2359	3	0.0500	0.99	15	
2-Hexanone		0.4287	0.4988	0.4861	0.5009	0.4853	0.5150	AVRG	R		2.058450		ug/L	0.4858	6	0.0500	0.99	15	
1,3-Dichloropropane	0.7217	0.6886	0.7253	0.7265	0.7117	0.6788	0.6889	AVRG	R		1.416568		ug/L	0.7059	3	0.0500	0.99	15	
Tetrachloroethene	0.3340	0.3333	0.3080	0.3433	0.3601	0.3721	0.3858	AVRG	R		2.872803		ug/L	0.3481	8	0.0500	0.99	15	
Dibromochloromethane	0.4553	0.4733	0.4474	0.4786	0.4965	0.4988	0.5093	AVRG	R		2.083876		ug/L	0.4799	5	0.0500	0.99	15	
1,2-Dibromoethane	0.4015	0.4036	0.4287	0.4360	0.4414	0.4431	0.4444	AVRG	R		2.334394		ug/L	0.4284	4	0.0500	0.99	15	
Chlorobenzene	1.1169	1.0776	1.0411	1.0746	1.0594	1.0007	1.0288	AVRG	R		0.946064		ug/L	1.0570	4	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3679	0.3405	0.3303	0.3472	0.3682	0.3752	0.3727	AVRG	R		2.797862		ug/L	0.3574	5	0.0500	0.99	15	
Ethylbenzene	1.9294	1.8702	1.6767	1.7888	1.7623	1.6058	1.6631	AVRG	R		0.569286		ug/L	1.7566	7	0.0500	0.99	15	
m,p-Xylenes	0.6504	0.6763	0.5981	0.6436	0.6496	0.6110	0.6273	AVRG	R		1.570808		ug/L	0.6366	4	0.0500	0.99	15	
o-Xylene	0.5674	0.6617	0.6194	0.6540	0.6838	0.6500	0.6584	AVRG	R		1.557350		ug/L	0.6421	6	0.0500	0.99	15	
Styrene	0.9028m	1.1305	1.0906	1.1407	1.1944	1.0944	1.1149	AVRG	R		0.912838		ug/L	1.0955	8	0.0500	0.99	15	
Bromoform	0.3295	0.3036	0.3269	0.3585	0.3800	0.3937	0.3912	AVRG	R		2.818809		ug/L	0.3548	10	0.1000	0.99	15	
Isopropylbenzene	3.2012	3.3297	3.0940	3.2715	3.1867	2.9009	3.0843	AVRG	R		0.317195		ug/L	3.1526	4	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

8260 W ICAL

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA06 HP GCMS VOA 06
Calnum: 454471408001 Name: I6M826W Type: WATER Reviewed By:
Date: 22-NOV-2004 10:36 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	1.3849	1.4075	1.4902	1.4308	1.4357	1.3091	1.3846	AVRG	R		0.711182		ug/L	1.4061	4	0.3000	0.99	15	
1,2,3-Trichloropropane	0.3719m	0.3025	0.3209	0.3018	0.3081	0.2957	0.3075	AVRG	R		3.169602		ug/L	0.3155	8	0.0500	0.99	15	
Propylbenzene	3.9745	4.4327	3.9060	4.1443	4.0003	3.4859	3.7658	AVRG	R		0.252620		ug/L	3.9585	7	0.0500	0.99	15	
Bromobenzene	0.9032	1.0072	0.9663	0.9748	1.0078	0.9812	1.0036	AVRG	R		1.022778		ug/L	0.9777	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	2.3025	2.5990	2.3352	2.5424	2.5326	2.3600	2.5177	AVRG	R		0.407229		ug/L	2.4556	5	0.0500	0.99	15	
2-Chlorotoluene	2.8812	3.0211	2.8601	2.8731	2.7959	2.5079	2.6488	AVRG	R		0.357359		ug/L	2.7983	6	0.0500	0.99	15	
4-Chlorotoluene	2.6623	2.8607	2.6528	2.8062	2.6951	2.3873	2.5489	AVRG	R		0.376073		ug/L	2.6591	6	0.0500	0.99	15	
tert-Butylbenzene	1.7905	1.9639m	1.8018m	2.0182m	1.9692m	1.9186m	1.9847m	AVRG	R		0.520570		ug/L	1.9210	5	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.2053	2.2627	2.1570	2.4453	2.4083	2.3090	2.4008	AVRG	R		0.432409		ug/L	2.3126	5	0.0500	0.99	15	
sec-Butylbenzene	2.8302	3.0825	2.8311	3.0624	3.0801	2.8963	3.0668	AVRG	R		0.335740		ug/L	2.9785	4	0.0500	0.99	15	
para-Isopropyl Toluene	1.6525	1.9342	1.8295	2.1037	2.1307	2.0831	2.2041	AVRG	R		0.502232		ug/L	1.9911	10	0.0500	0.99	15	
1,3-Dichlorobenzene	1.3580	1.5610	1.4583	1.5486	1.5416	1.4741	1.5202	AVRG	R		0.669095		ug/L	1.4946	5	0.0500	0.99	15	
1,4-Dichlorobenzene	1.6000	1.7201	1.5252	1.5662	1.5746	1.5020	1.5791	AVRG	R		0.632500		ug/L	1.5810	4	0.0500	0.99	15	
n-Butylbenzene	1.4177	1.7383	1.6343	1.8533	1.9556	1.9827	2.0815	AVRG	R		0.552774		ug/L	1.8091	13	0.0500	0.99	15	
1,2-Dichlorobenzene	1.4635	1.5142	1.4701	1.5002	1.5566	1.4682	1.5104	AVRG	R		0.667735		ug/L	1.4976	2	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.2017m	0.2090	0.2071	0.2105	0.2102	0.2055	0.2105	AVRG	R		4.812219		ug/L	0.2078	2	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.4265	0.4986m	0.4772	0.5759	0.6459		0.7179	QUAD	R	0.754327	1.763081	-0.00716	ug/L	0.5570	1.000	0.0500	0.99	15	
Hexachlorobutadiene	0.1615	0.2428	0.2275	0.2564	0.2633		0.3042	QUAD	R	-0.15279	4.387769	-0.04761	ug/L	0.2426	1.000	0.0500	0.99	15	
Naphthalene	1.0272	1.2222	1.2272	1.3564	1.5561	1.5777	1.5494	QUAD	R	1.210829	0.654318	-0.00018	ug/L	1.3595	1.000	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.3122m	0.4546	0.4729	0.5517	0.6551		0.7021	QUAD	R	1.216906	1.704046	-0.00584	ug/L	0.5248	0.999	0.0500	0.99	15	
Dibromofluoromethane	0.7602	0.7841	0.8052	0.8107	0.7700	0.7589	0.7576	AVRG	R		1.285176		ug/L	0.7781	3	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.4335	0.4500	0.4562	0.4440	0.4372	0.4407	0.4317	AVRG	R		2.262958		ug/L	0.4419	2	0.0500	0.99	15	
Trifluorotoluene	0.3616	0.3459	0.3288	0.3748	0.3867	0.4254	0.4468	AVRG	R		2.621581		ug/L	0.3814	11	0.0500	0.99	15	
Toluene-d8	1.0392	1.0609	1.0787	1.0627	1.0612	1.0575	1.0628	AVRG	R		0.943003		ug/L	1.0604	1	0.0500	0.99	15	
Bromofluorobenzene	1.2822	1.2967	1.2616	1.2267	1.2269	1.1760	1.1809	AVRG	R		0.809159		ug/L	1.2359	4	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM04.D
Report Date: 22-Nov-2004 16:26

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM04.D
Lab Smp Id:
Inj Date : 22-NOV-2004 10:36
Operator : BO
Smp Info : ICAL,04SS393,0.002/1000,04WS2167A,0.002/1000,
Misc Info : 04WS2204A,0.001/1000,0.5/1PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\I6M826W.m
Meth Date : 22-Nov-2004 16:26 target
Cal Date : 22-NOV-2004 10:36
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 26-OCT-2004 07:37
Inst ID: MSVOA06.i

Quant Type: ISTD
Cal File: FKM04.D
Calibration Sample, Level: 7

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.226	3.226	(0.365)	14486	1.00000	0.8464
2 Chloromethane	50	3.590	3.590	(0.406)	20264	1.00000	1.1633
3 Vinyl Chloride	62	3.728	3.728	(0.422)	8473	1.00000	1.0112(M)
4 Bromomethane	94	4.378	4.378	(0.495)	11318	1.00000	1.2542(M)
5 Chloroethane	64	4.506	4.506	(0.510)	7195	1.00000	1.0415
6 Trichlorofluoromethane	101	4.930	4.930	(0.558)	16372	1.00000	0.9646
7 Acetone	43	5.501	5.501	(0.622)	6419	0.50000	0.8501
8 Freon 113	101	5.620	5.620	(0.636)	4968	0.50000	0.4421(aM)
9 1,1-Dichloroethene	96	5.797	5.797	(0.656)	6804	0.50000	0.5257
10 Methylene Chloride	84	6.427	6.427	(0.727)	12636	0.50000	0.6961
11 Carbon Disulfide	76	6.516	6.516	(0.737)	26436	0.50000	0.5665
12 MTBE	73	6.772	6.772	(0.766)	19052	0.50000	0.4978(aM)
13 trans-1,2-Dichloroethene	96	6.930	6.930	(0.784)	7332	0.50000	0.4850(a)
14 Vinyl Acetate	43	7.482	7.482	(0.846)	21394	0.50000	0.4957(a)
15 1,1-Dichloroethane	63	7.501	7.501	(0.848)	15015	0.50000	0.4850(aM)
16 2-Butanone	43	8.063	8.063	(0.912)	9162	0.50000	0.7643

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM04.D
Report Date: 22-Nov-2004 16:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.398	8.398	(0.950)	8050	0.50000	0.4723(a)
	18 2,2-Dichloropropane	77	8.388	8.388	(0.949)	8777	0.50000	0.4812(a)
	19 Chloroform	83	8.634	8.634	(0.977)	22013	0.50000	0.6200
	20 Bromochloromethane	128	8.841	8.841	(1.000)	4555	0.50000	0.5228
*	21 Pentafluorobenzene	168	8.841	8.841	(1.000)	1147162	50.0000	
$	22 Dibromofluoromethane	113	8.930	8.930	(1.010)	872127	50.0000	48.8525
	23 1,1,1-Trichloroethane	97	9.304	9.304	(1.052)	9213	0.50000	0.4714(a)
	24 1,1-Dichloropropene	75	9.550	9.550	(0.926)	8647	0.50000	0.4741(a)
$	25 1,2-Dichloroethane-d4	65	9.659	9.659	(0.936)	881230	50.0000	49.0522
	26 Carbon Tetrachloride	117	9.718	9.718	(0.942)	7920	0.50000	0.5085
	27 1,2-Dichloroethane	62	9.806	9.806	(0.950)	10961	0.50000	0.4854(a)
	28 Benzene	78	9.915	9.915	(0.961)	29708	0.50000	0.5271
*	29 1,4-Difluorobenzene	114	10.319	10.319	(1.000)	2032717	50.0000	
	30 Trichloroethene	95	10.900	10.900	(1.056)	8767	0.50000	0.5654
$	31 Trifluorotoluene	146	10.979	10.979	(1.064)	7351	0.50000	0.4740(a)
	32 1,2-Dichloropropane	63	11.107	11.107	(1.076)	8971	0.50000	0.4862(a)
	33 Bromodichloromethane	83	11.442	11.442	(1.109)	9993	0.50000	0.4637(aM)
	34 Dibromomethane	93	11.481	11.481	(1.113)	6959	0.50000	0.4683(a)
	35 2-Chloroethylvinylether	63	11.905	11.905	(1.154)	6307	1.00000	0.5971
	36 4-Methyl-2-Pentanone	43	12.023	12.023	(1.165)	10999	0.50000	0.4709(a)
	37 Tetramethyl THF	43	12.210	12.210	(1.183)	19682	0.50000	0.4380(a)
	38 cis-1,3-Dichloropropene	75	12.319	12.319	(1.194)	11547	0.50000	0.4608(a)
$	39 Toluene-d8	98	12.801	12.801	(1.241)	2112474	50.0000	49.0001
	40 Toluene	92	12.929	12.929	(1.253)	16227	0.50000	0.4857(aM)
	41 trans-1,3-Dichloropropene	75	13.107	13.107	(1.270)	8861	0.50000	0.4034(a)
	42 1,1,2-Trichloroethane	85	13.373	13.373	(1.296)	4553	0.50000	0.4747(a)
	43 2-Hexanone	43	13.442	13.442	(0.877)	6633	0.50000	0.4268(a)
	44 1,3-Dichloropropane	76	13.787	13.787	(0.900)	11542	0.50000	0.5111
	45 Tetrachloroethene	166	14.072	14.072	(0.918)	5342	0.50000	0.4798(a)
	46 Dibromochloromethane	129	14.250	14.250	(0.930)	7281	0.50000	0.4743(a)
	47 1,2-Dibromoethane	107	14.594	14.594	(1.414)	8162	0.50000	0.4686(a)
*	48 Chlorobenzene-d5	117	15.323	15.323	(1.000)	1599189	50.0000	
	49 Chlorobenzene	112	15.383	15.383	(1.004)	17861	0.50000	0.5283
	50 1,1,1,2-Tetrachloroethane	131	15.451	15.451	(1.008)	5883	0.50000	0.5146
	51 Ethylbenzene	91	15.520	15.520	(1.013)	30854	0.50000	0.5491
	52 m,p-Xylenes	106	15.678	15.678	(1.023)	20802	1.00000	1.0216
	53 o-Xylene	106	16.417	16.417	(1.071)	9074	0.50000	0.4418(a)
	54 Styrene	104	16.447	16.447	(1.073)	14438	0.50000	0.4120(aM)
	55 Bromoform	173	16.929	16.929	(1.105)	5269	0.50000	0.4643(a)
	56 Isopropylbenzene	105	17.077	17.077	(0.870)	22156	0.50000	0.5077
	57 1,1,2,2-Tetrachloroethane	83	17.235	17.235	(0.878)	9585	0.50000	0.4924(a)
$	58 Bromofluorobenzene	95	17.451	17.451	(0.890)	887430	50.0000	51.8757
	59 1,2,3-Trichloropropane	110	17.510	17.510	(0.893)	2574	0.50000	0.5893(M)
	60 Propylbenzene	91	17.806	17.806	(0.908)	27508	0.50000	0.5020
	61 Bromobenzene	156	17.796	17.796	(0.907)	6251	0.50000	0.4618(a)
	62 2-Chlorotoluene	91	18.092	18.092	(0.922)	19941	0.50000	0.5148
	63 1,3,5-Trimethylbenzene	105	18.111	18.111	(0.923)	15936	0.50000	0.4688(a)

no 11/23/04

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM04.D
Report Date: 22-Nov-2004 16:26

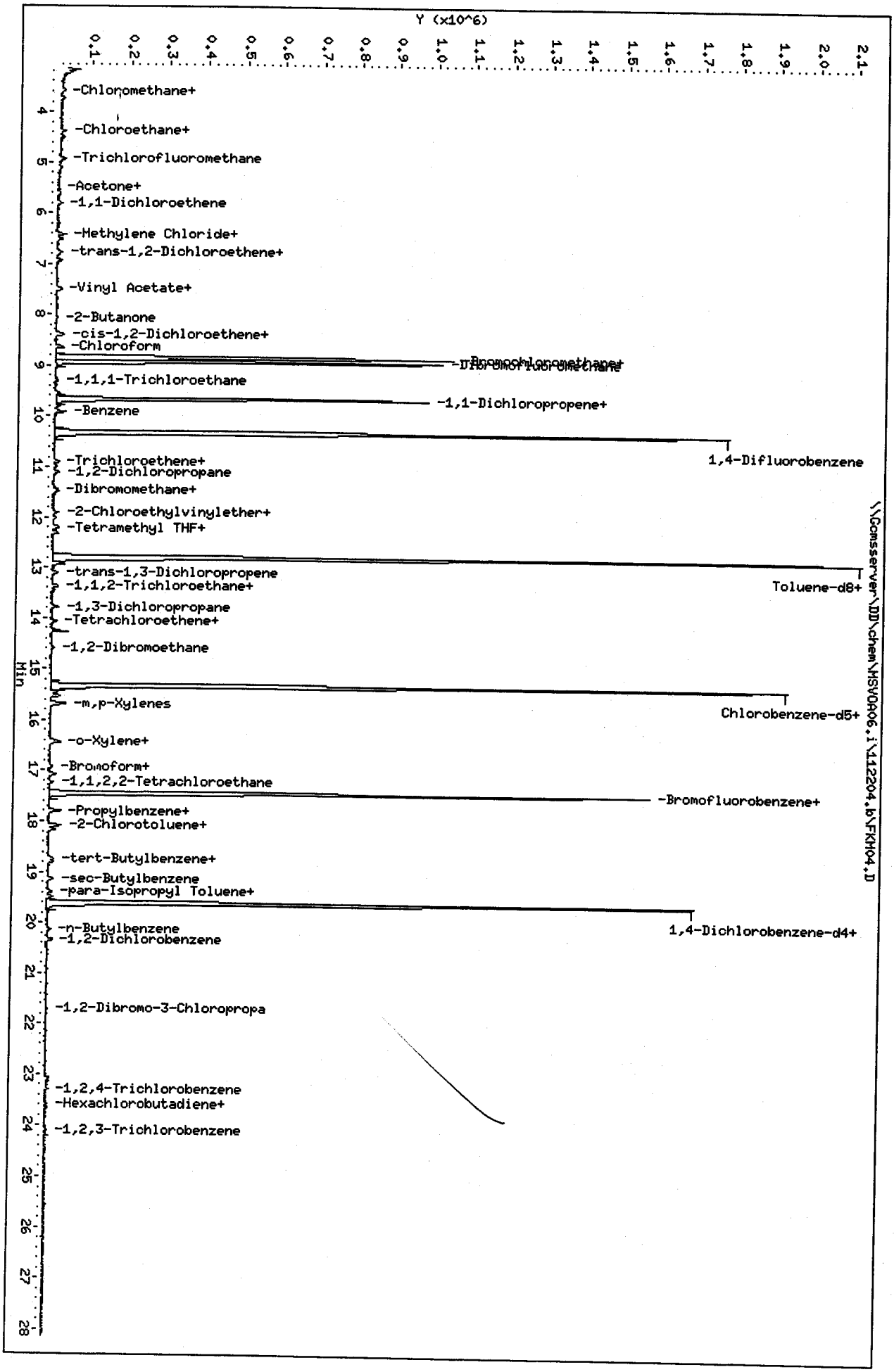
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	64 4-Chlorotoluene	91	18.180	18.180	(0.927)	18426	0.50000	0.5006
	65 tert-Butylbenzene	119	18.752	18.752	(0.956)	12392	0.50000	0.4660(a)
	66 1,2,4-Trimethylbenzene	105	18.811	18.811	(0.959)	15263	0.50000	0.4767(a)
	67 sec-Butylbenzene	105	19.136	19.136	(0.975)	19588	0.50000	0.4751(a)
	68 para-Isopropyl Toluene	119	19.392	19.392	(0.988)	11437	0.50000	0.4149(a)
	69 1,3-Dichlorobenzene	146	19.491	19.491	(0.993)	9399	0.50000	0.4543(a)
*	70 1,4-Dichlorobenzene-d4	152	19.619	19.619	(1.000)	692108	50.0000	
	71 1,4-Dichlorobenzene	146	19.668	19.668	(1.002)	11074	0.50000	0.5060
	72 n-Butylbenzene	91	20.141	20.141	(1.027)	9812	0.50000	0.3918(a)
	73 1,2-Dichlorobenzene	146	20.348	20.348	(1.037)	10129	0.50000	0.4886(a)
	74 1,2-Dibromo-3-Chloropropane	75	21.688	21.688	(1.105)	1396	0.50000	0.4853(aM)
	75 1,2,4-Trichlorobenzene	180	23.303	23.303	(1.188)	2952	0.50000	1.1299
	76 Hexachlorobutadiene	225	23.599	23.599	(1.203)	1118	0.50000	0.2012(a)
	77 Naphthalene	128	23.658	23.658	(1.206)	7109	0.50000	1.5468
	78 1,2,3-Trichlorobenzene	180	24.082	24.082	(1.227)	2161	0.50000	1.4827(M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Gmsserver\DD\chem\MSVOA06.i\112204.b\FKH04.D
Date : 22-NOV-2004 10:36
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.002/1000,04HS2167A,0.002/1000,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM05.D
Report Date: 22-Nov-2004 16:27

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM05.D
Lab Smp Id:
Inj Date : 22-NOV-2004 11:11
Operator : BO
Smp Info : ICAL,04SS393,0.005/500,04WS2167A,0.010/500,
Misc Info : 04WS2204A,0.0025/500,5PPB, NP NL
Comment :
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Meth Date : 22-Nov-2004 16:27 target
Cal Date : 22-NOV-2004 10:36
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 26-OCT-2004 07:37
Inst ID: MSVOA06.i
Quant Type: ISTD
Cal File: FKM04.D
Calibration Sample, Level: 6
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.230	3.230	(0.365)	79938	5.00000	5.0109
2 Chloromethane	50	3.575	3.575	(0.404)	82507	5.00000	5.0814
3 Vinyl Chloride	62	3.742	3.742	(0.423)	45390	5.00000	5.8116
4 Bromomethane	94	4.373	4.373	(0.494)	39936	5.00000	4.7476
5 Chloroethane	64	4.501	4.501	(0.509)	30219	5.00000	4.6927
6 Trichlorofluoromethane	101	4.934	4.934	(0.558)	78872	5.00000	4.9855
7 Acetone	43	5.496	5.496	(0.621)	33215	5.00000	4.7194(M) no uncertainty
8 Freon 113	101	5.634	5.634	(0.637)	51196	5.00000	4.8880
9 1,1-Dichloroethene	96	5.811	5.811	(0.657)	60677	5.00000	5.0297
10 Methylene Chloride	84	6.422	6.422	(0.726)	89645	5.00000	5.2978
11 Carbon Disulfide	76	6.510	6.510	(0.736)	231226	5.00000	5.3158
12 MTBE	73	6.776	6.776	(0.766)	177938	5.00000	4.9880
13 trans-1,2-Dichloroethene	96	6.934	6.934	(0.784)	72359	5.00000	5.1353
14 Vinyl Acetate	43	7.476	7.476	(0.845)	204494	5.00000	5.0831
15 1,1-Dichloroethane	63	7.505	7.505	(0.849)	156698	5.00000	5.4309
16 2-Butanone	43	8.067	8.067	(0.912)	54170	5.00000	4.8478

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM05.D
Report Date: 22-Nov-2004 16:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.392	8.392	(0.949)	80217	5.00000	5.0494
18 2,2-Dichloropropane	77	8.382	8.382	(0.948)	85745	5.00000	5.0437
19 Chloroform	83	8.638	8.638	(0.977)	144383	5.00000	5.0570
20 Bromochloromethane	128	8.835	8.835	(0.999)	39969	5.00000	4.9216
* 21 Pentafluorobenzene	168	8.845	8.845	(1.000)	1069332	50.0000	
$ 22 Dibromofluoromethane	113	8.934	8.934	(1.010)	838448	50.0000	50.3844
23 1,1,1-Trichloroethane	97	9.308	9.308	(1.052)	90240	5.00000	4.9537
24 1,1-Dichloropropene	75	9.564	9.564	(0.927)	84361	5.00000	4.9617
$ 25 1,2-Dichloroethane-d4	65	9.663	9.663	(0.936)	852842	50.0000	50.9168
26 Carbon Tetrachloride	117	9.722	9.722	(0.942)	68955	5.00000	4.7493
27 1,2-Dichloroethane	62	9.801	9.801	(0.949)	108664	5.00000	5.1618
28 Benzene	78	9.909	9.909	(0.960)	275647	5.00000	5.2463
* 29 1,4-Difluorobenzene	114	10.323	10.323	(1.000)	1895193	50.0000	
30 Trichloroethene	95	10.894	10.894	(1.055)	71126	5.00000	4.9206
$ 31 Trifluorotoluene	146	10.983	10.983	(1.064)	65562	5.00000	4.5345
32 1,2-Dichloropropane	63	11.111	11.111	(1.076)	88503	5.00000	5.1451
33 Bromodichloromethane	83	11.446	11.446	(1.109)	105557	5.00000	5.2545
34 Dibromomethane	93	11.495	11.495	(1.114)	68947	5.00000	4.9764
35 2-Chloroethylvinylether	63	11.909	11.909	(1.154)	42458	5.00000	4.3115
36 4-Methyl-2-Pentanone	43	12.018	12.018	(1.164)	104326	5.00000	4.7913
37 Tetramethyl THF	43	12.195	12.195	(1.181)	211129	5.00000	5.0402
38 cis-1,3-Dichloropropene	75	12.323	12.323	(1.194)	119757	5.00000	5.1266
$ 39 Toluene-d8	98	12.806	12.806	(1.240)	2010702	50.0000	50.0238
40 Toluene	92	12.934	12.934	(1.253)	163336	5.00000	5.2446
41 trans-1,3-Dichloropropene	75	13.111	13.111	(1.270)	105095	5.00000	5.1318
42 1,1,2-Trichloroethane	85	13.377	13.377	(1.296)	44460	5.00000	4.9727(M)
43 2-Hexanone	43	13.436	13.436	(0.877)	64921	5.00000	4.4125
44 1,3-Dichloropropane	76	13.791	13.791	(0.900)	104280	5.00000	4.8775
45 Tetrachloroethene	166	14.077	14.077	(0.918)	50469	5.00000	4.7873
46 Dibromochloromethane	129	14.244	14.244	(0.929)	71665	5.00000	4.9311
47 1,2-Dibromoethane	107	14.599	14.599	(1.414)	76483	5.00000	4.7103
* 48 Chlorobenzene-d5	117	15.328	15.328	(1.000)	1514272	50.0000	
49 Chlorobenzene	112	15.397	15.397	(1.004)	163183	5.00000	5.0975
50 1,1,1,2-Tetrachloroethane	131	15.446	15.446	(1.008)	51556	5.00000	4.7629
51 Ethylbenzene	91	15.525	15.525	(1.013)	283201	5.00000	5.3234
52 m,p-Xylenes	106	15.682	15.682	(1.023)	204816	10.0000	10.6231
53 o-Xylene	106	16.431	16.431	(1.072)	100201	5.00000	5.1525
54 Styrene	104	16.451	16.451	(1.073)	171196	5.00000	5.1600
55 Bromoform	173	16.933	16.933	(1.105)	45971	5.00000	4.2787
56 Isopropylbenzene	105	17.081	17.081	(0.871)	227281	5.00000	5.2807
57 1,1,2,2-Tetrachloroethane	83	17.239	17.239	(0.879)	96072	5.00000	5.0047
$ 58 Bromofluorobenzene	95	17.456	17.456	(0.890)	885084	50.0000	52.4598
59 1,2,3-Trichloropropane	110	17.505	17.505	(0.893)	20646	5.00000	4.7934
60 Propylbenzene	91	17.810	17.810	(0.908)	302571	5.00000	5.5989
61 Bromobenzene	156	17.800	17.800	(0.908)	68751	5.00000	5.1507
62 2-Chlorotoluene	91	18.086	18.086	(0.922)	206219	5.00000	5.3981
63 1,3,5-Trimethylbenzene	105	18.096	18.096	(0.923)	177403	5.00000	5.2918

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM05.D
Report Date: 22-Nov-2004 16:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64	4-Chlorotoluene	91	18.175	18.175	(0.927)	195272	5.00000	5.3792
65	tert-Butylbenzene	119	18.746	18.746	(0.956)	134057	5.00000	5.1118(M)
66	1,2,4-Trimethylbenzene	105	18.805	18.805	(0.959)	154453	5.00000	4.8921
67	sec-Butylbenzene	105	19.140	19.140	(0.976)	210412	5.00000	5.1746
68	para-Isopropyl Toluene	119	19.396	19.396	(0.989)	132029	5.00000	4.8571
69	1,3-Dichlorobenzene	146	19.495	19.495	(0.994)	106554	5.00000	5.2223
* 70	1,4-Dichlorobenzene-d4	152	19.613	19.613	(1.000)	682592	50.0000	
71	1,4-Dichlorobenzene	146	19.672	19.672	(1.003)	117412	5.00000	5.4397
72	n-Butylbenzene	91	20.145	20.145	(1.027)	118654	5.00000	4.8043
73	1,2-Dichlorobenzene	146	20.342	20.342	(1.037)	103359	5.00000	5.0554
74	1,2-Dibromo-3-Chloropropane	75	21.692	21.692	(1.106)	14266	5.00000	5.0287
75	1,2,4-Trichlorobenzene	180	23.298	23.298	(1.188)	34036	5.00000	5.1054(M)
76	Hexachlorobutadiene	225	23.593	23.593	(1.203)	16575	5.00000	5.1043
77	Naphthalene	128	23.662	23.662	(1.206)	83427	5.00000	5.2025
78	1,2,3-Trichlorobenzene	180	24.076	24.076	(1.228)	31029	5.00000	5.0598

pr
m23in

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\112204.b\FKH05.D
Date : 22-NOV-2004 11:11
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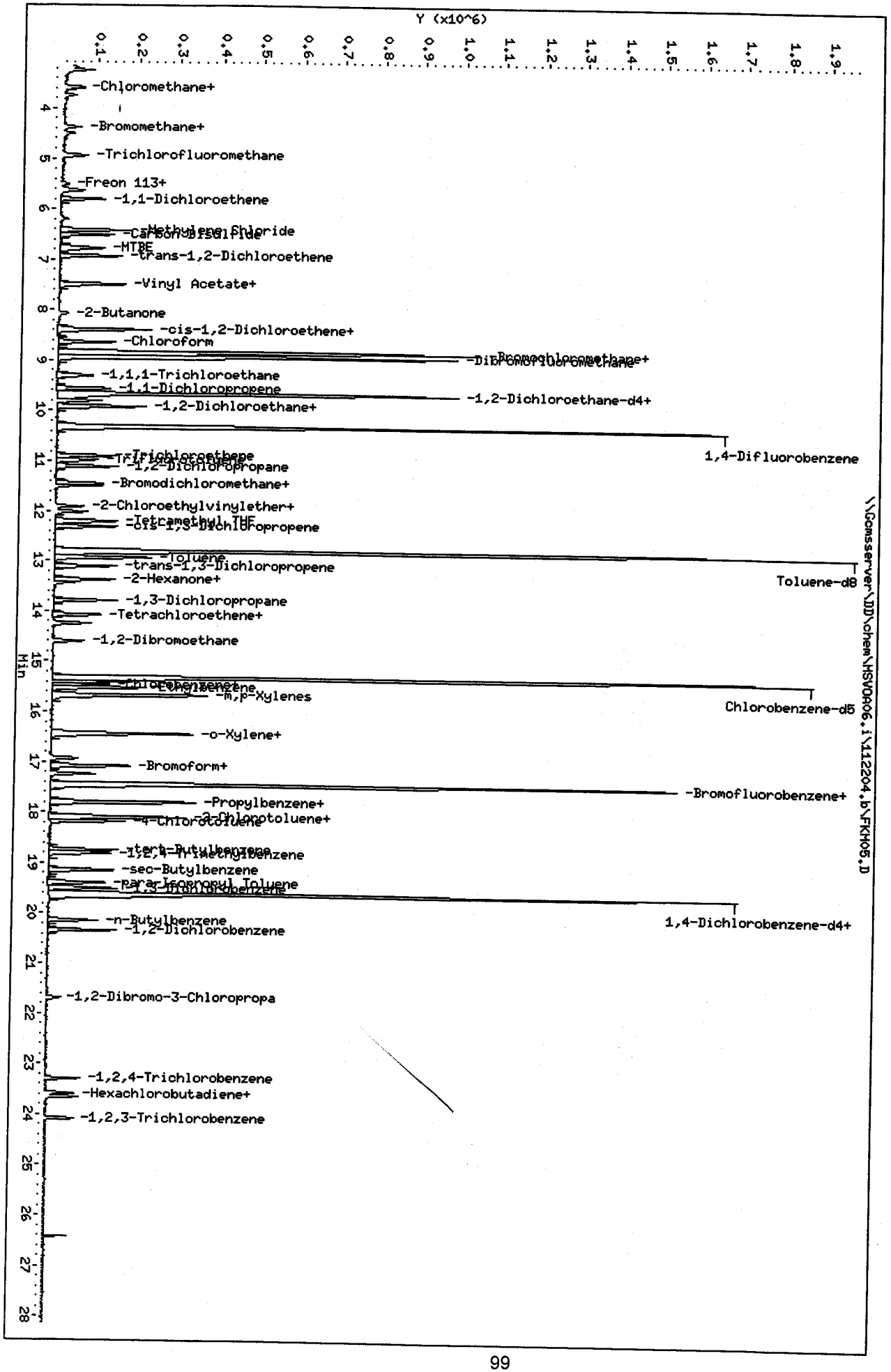
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.32



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Report Date: 22-Nov-2004 16:27

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM06.D
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Inj Date : 22-NOV-2004 11:45
Operator : BO
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Misc Info : 04WS2204A,0.001/100,10PPB, NP NL
Comment :
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Meth Date : 22-Nov-2004 16:27 target
Cal Date : 22-NOV-2004 10:36
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PC_MSVOA07

Client Smp ID: DYNA P&T
MS Autotune Date: 26-OCT-2004 07:37
Inst ID: MSVOA06.i
Quant Type: ISTD
Cal File: FKM04.D
Calibration Sample, Level: 1
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	3.228	3.228	(0.365)	132254	10.0000	8.1710
2 Chloromethane	50	3.573	3.573	(0.404)	166267	10.0000	10.0926
3 Vinyl Chloride	62	3.740	3.740	(0.423)	76747	10.0000	9.6851
4 Bromomethane	94	4.381	4.381	(0.495)	77270	10.0000	9.0537
5 Chloroethane	64	4.509	4.509	(0.510)	65781	10.0000	10.0681(M)
6 Trichlorofluoromethane	101	4.942	4.942	(0.559)	136283	10.0000	8.4905
7 Acetone	43	5.504	5.504	(0.622)	73742	10.0000	10.3270
8 Freon 113	101	5.632	5.632	(0.637)	91912	10.0000	8.6492
9 1,1-Dichloroethene	96	5.809	5.809	(0.657)	109786	10.0000	8.9696
10 Methylene Chloride	84	6.420	6.420	(0.726)	170793	10.0000	9.9482
11 Carbon Disulfide	76	6.519	6.519	(0.737)	411156	10.0000	9.3163
12 MTBE	73	6.775	6.775	(0.766)	367389	10.0000	10.1505
13 trans-1,2-Dichloroethene	96	6.932	6.932	(0.784)	132313	10.0000	9.2552
14 Vinyl Acetate	43	7.484	7.484	(0.846)	423020	10.0000	10.3637
15 1,1-Dichloroethane	63	7.504	7.504	(0.849)	296071	10.0000	10.1137
16 2-Butanone	43	8.065	8.065	(0.912)	117247	10.0000	10.3418

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM06.D
Report Date: 22-Nov-2004 16:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.390	8.390	(0.949)	161123	10.0000	9.9962
18 2,2-Dichloropropane	77	8.381	8.381	(0.948)	163331	10.0000	9.4692
19 Chloroform	83	8.637	8.637	(0.977)	270496	10.0000	9.4991
20 Bromochloromethane	128	8.844	8.844	(1.000)	80705	10.0000	9.7946
* 21 Pentafluorobenzene	168	8.844	8.844	(1.000)	1084948	50.0000	
$ 22 Dibromofluoromethane	113	8.932	8.932	(1.010)	873584	50.0000	51.7402
23 1,1,1-Trichloroethane	97	9.307	9.307	(1.052)	173884	10.0000	9.4079
24 1,1-Dichloropropene	75	9.563	9.563	(0.926)	154609	10.0000	8.9643
$ 25 1,2-Dichloroethane-d4	65	9.661	9.661	(0.936)	876948	50.0000	51.6126
26 Carbon Tetrachloride	117	9.730	9.730	(0.943)	124111	10.0000	8.4268
27 1,2-Dichloroethane	62	9.809	9.809	(0.950)	216199	10.0000	10.1243
28 Benzene	78	9.917	9.917	(0.961)	540221	10.0000	10.1359
* 29 1,4-Difluorobenzene	114	10.321	10.321	(1.000)	1922491	50.0000	
30 Trichloroethene	95	10.893	10.893	(1.055)	135815	10.0000	9.2626
$ 31 Trifluorotoluene	146	10.981	10.981	(1.064)	126434	10.0000	8.6205
32 1,2-Dichloropropane	63	11.109	11.109	(1.076)	169895	10.0000	9.7367
33 Bromodichloromethane	83	11.444	11.444	(1.109)	204507	10.0000	10.0356
34 Dibromomethane	93	11.494	11.494	(1.114)	138764	10.0000	9.8734
35 2-Chloroethylvinylether	63	11.907	11.907	(1.154)	98865	10.0000	9.8970
36 4-Methyl-2-Pentanone	43	12.016	12.016	(1.164)	226056	10.0000	10.2345
37 Tetramethyl THF	43	12.203	12.203	(1.182)	449589	10.0000	10.5806
38 cis-1,3-Dichloropropene	75	12.311	12.311	(1.193)	236016	10.0000	9.9601
$ 39 Toluene-d8	98	12.804	12.804	(1.241)	2073843	50.0000	50.8621
40 Toluene	92	12.932	12.932	(1.253)	307175	10.0000	9.7232
41 trans-1,3-Dichloropropene	75	13.109	13.109	(1.270)	210653	10.0000	10.1402
42 1,1,2-Trichloroethane	85	13.375	13.375	(1.296)	89248	10.0000	9.8404(M)
43 2-Hexanone	43	13.434	13.434	(0.877)	157450	10.0000	10.2680
44 1,3-Dichloropropane	76	13.789	13.789	(0.900)	228931	10.0000	10.2741
45 Tetrachloroethene	166	14.085	14.085	(0.919)	97217	10.0000	8.8481
46 Dibromochloromethane	129	14.242	14.242	(0.929)	141209	10.0000	9.3226
47 1,2-Dibromoethane	107	14.607	14.607	(1.415)	164843	10.0000	10.0080
* 48 Chlorobenzene-d5	117	15.326	15.326	(1.000)	1578216	50.0000	
49 Chlorobenzene	112	15.395	15.395	(1.004)	328609	10.0000	9.8492
50 1,1,1,2-Tetrachloroethane	131	15.454	15.454	(1.008)	104245	10.0000	9.2402
51 Ethylbenzene	91	15.523	15.523	(1.013)	529234	10.0000	9.5451
52 m,p-Xylenes	106	15.671	15.671	(1.022)	377557	20.0000	18.7892
53 o-Xylene	106	16.429	16.429	(1.072)	195524	10.0000	9.6469
54 Styrene	104	16.449	16.449	(1.073)	344242	10.0000	9.9554
55 Bromoform	173	16.932	16.932	(1.105)	103177	10.0000	9.2140
56 Isopropylbenzene	105	17.080	17.080	(0.870)	439608	10.0000	9.8140
57 1,1,2,2-Tetrachloroethane	83	17.237	17.237	(0.878)	211730	10.0000	10.5979
$ 58 Bromofluorobenzene	95	17.454	17.454	(0.890)	896262	50.0000	51.0418
59 1,2,3-Trichloropropane	110	17.503	17.503	(0.892)	45597	10.0000	10.1718
60 Propylbenzene	91	17.809	17.809	(0.908)	554975	10.0000	9.8673
61 Bromobenzene	156	17.799	17.799	(0.907)	137297	10.0000	9.8832
62 2-Chlorotoluene	91	18.084	18.084	(0.922)	406379	10.0000	10.2210
63 1,3,5-Trimethylbenzene	105	18.104	18.104	(0.923)	331792	10.0000	9.5095

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM0 6.D
Report Date: 22-Nov-2004 16:27

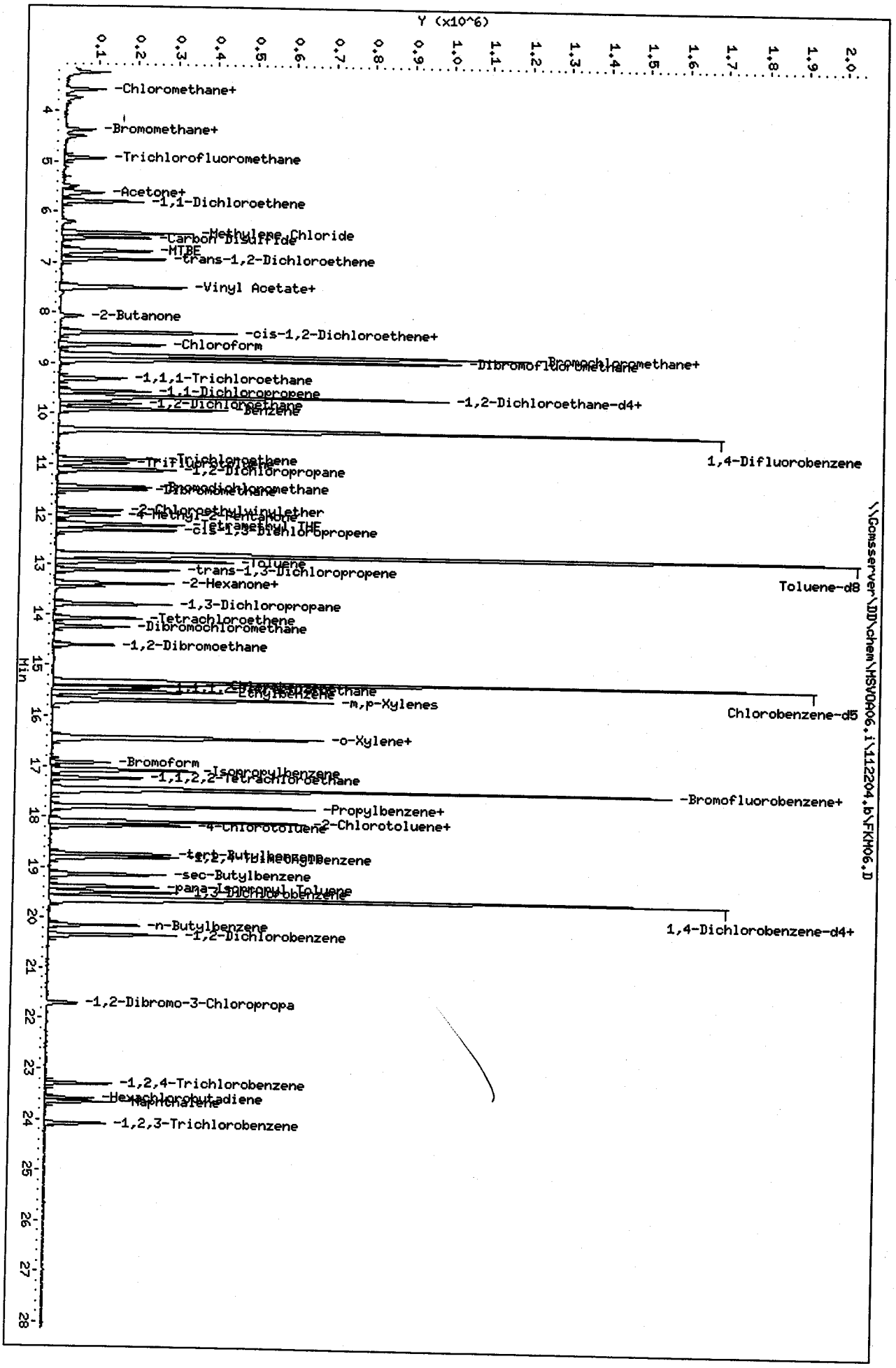
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.173	18.173	(0.926)	376919	10.0000	9.9764
65 tert-Butylbenzene	119	18.745	18.745	(0.955)	256003	10.0000	9.3795(M)
66 1,2,4-Trimethylbenzene	105	18.804	18.804	(0.958)	306473	10.0000	9.3270
67 sec-Butylbenzene	105	19.139	19.139	(0.975)	402245	10.0000	9.5049
68 para-Isopropyl Toluene	119	19.395	19.395	(0.988)	259935	10.0000	9.1881
69 1,3-Dichlorobenzene	146	19.493	19.493	(0.993)	207199	10.0000	9.7573
* 70 1,4-Dichlorobenzene-d4	152	19.621	19.621	(1.000)	710416	50.0000	
71 1,4-Dichlorobenzene	146	19.671	19.671	(1.002)	216701	10.0000	9.6467
72 n-Butylbenzene	91	20.143	20.143	(1.027)	232211	10.0000	9.0341
73 1,2-Dichlorobenzene	146	20.340	20.340	(1.037)	208881	10.0000	9.8165
74 1,2-Dibromo-3-Chloropropane	75	21.700	21.700	(1.106)	29428	10.0000	9.9669
75 1,2,4-Trichlorobenzene	180	23.296	23.296	(1.187)	67806	10.0000	9.0051
76 Hexachlorobutadiene	225	23.592	23.592	(1.202)	32322	10.0000	9.5823
77 Naphthalene	128	23.660	23.660	(1.206)	174371	10.0000	9.2134
78 1,2,3-Trichlorobenzene	180	24.084	24.084	(1.227)	67193	10.0000	9.1448

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKH06.D
Date : 22-NOV-2004 11:45
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.002/100,04WS2167A,0.004/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM07.D
Report Date: 22-Nov-2004 16:27

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM07.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 22-NOV-2004 12:20 MS Autotune Date: 26-OCT-2004 07:37
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,04SS393,0.004/100,04WS2167A,0.008/100,
Misc Info : 04WS2204A,0.002/100,20PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\I6M826W.m
Meth Date : 22-Nov-2004 16:27 target Quant Type: ISTD
Cal Date : 22-NOV-2004 10:36 Cal File: FKM04.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.234	3.234	(0.365)	367533	20.0000	22.5951
2 Chloromethane	50	3.579	3.579	(0.404)	359887	20.0000	21.7377
3 Vinyl Chloride	62	3.736	3.736	(0.422)	183625	20.0000	23.0582
4 Bromomethane	94	4.387	4.387	(0.496)	174623	20.0000	20.3595
5 Chloroethane	64	4.505	4.505	(0.509)	147092	20.0000	22.4019
6 Trichlorofluoromethane	101	4.948	4.948	(0.559)	375003	20.0000	23.2475
7 Acetone	43	5.510	5.510	(0.623)	138357	20.0000	19.2801
8 Freon 113	101	5.638	5.638	(0.637)	213742	20.0000	20.0145
9 1,1-Dichloroethene	96	5.815	5.815	(0.657)	242599	20.0000	19.7226
10 Methylene Chloride	84	6.426	6.426	(0.726)	359026	20.0000	20.8091
11 Carbon Disulfide	76	6.515	6.515	(0.736)	910333	20.0000	20.5252
12 MTBE	73	6.781	6.781	(0.766)	760681	20.0000	20.9128
13 trans-1,2-Dichloroethene	96	6.938	6.938	(0.784)	302141	20.0000	21.0301
14 Vinyl Acetate	43	7.480	7.480	(0.845)	880367	20.0000	21.4619
15 1,1-Dichloroethane	63	7.510	7.510	(0.849)	626432	20.0000	21.2930
16 2-Butanone	43	8.061	8.061	(0.911)	238012	20.0000	20.8902

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM07.D
Report Date: 22-Nov-2004 16:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.396	8.396	(0.949)	345287	20.0000	21.3161
	18 2,2-Dichloropropane	77	8.386	8.386	(0.948)	351179	20.0000	20.2593
	19 Chloroform	83	8.643	8.643	(0.977)	564757	20.0000	20.1906
	20 Bromochloromethane	128	8.840	8.840	(0.999)	167979	20.0000	20.2858
*	21 Pentafluorobenzene	168	8.849	8.849	(1.000)	1090335	50.0000	
$	22 Dibromofluoromethane	113	8.928	8.928	(1.009)	883980	50.0000	52.0972
	23 1,1,1-Trichloroethane	97	9.313	9.313	(1.052)	385551	20.0000	20.7570
	24 1,1-Dichloropropene	75	9.559	9.559	(0.926)	369138	20.0000	20.6465
$	25 1,2-Dichloroethane-d4	65	9.667	9.667	(0.936)	884917	50.0000	50.2408
	26 Carbon Tetrachloride	117	9.726	9.726	(0.942)	297778	20.0000	19.5038
	27 1,2-Dichloroethane	62	9.805	9.805	(0.949)	458620	20.0000	20.7174
	28 Benzene	78	9.913	9.913	(0.960)	1147195	20.0000	20.7636
*	29 1,4-Difluorobenzene	114	10.327	10.327	(1.000)	1992932	50.0000	
	30 Trichloroethene	95	10.899	10.899	(1.055)	300658	20.0000	19.7802
$	31 Trifluorotoluene	146	10.987	10.987	(1.064)	298807	20.0000	19.6531
	32 1,2-Dichloropropane	63	11.106	11.106	(1.075)	374044	20.0000	20.6789
	33 Bromodichloromethane	83	11.440	11.440	(1.108)	432118	20.0000	20.4555
	34 Dibromomethane	93	11.490	11.490	(1.113)	300947	20.0000	20.6563
	35 2-Chloroethylvinylether	63	11.913	11.913	(1.154)	205425	20.0000	19.8374
	36 4-Methyl-2-Pentanone	43	12.012	12.012	(1.163)	461888	20.0000	20.1725
	37 Tetramethyl THF	43	12.199	12.199	(1.181)	924592	20.0000	20.9902
	38 cis-1,3-Dichloropropene	75	12.317	12.317	(1.193)	513715	20.0000	20.9130
$	39 Toluene-d8	98	12.800	12.800	(1.239)	2117798	50.0000	50.1043
	40 Toluene	92	12.928	12.928	(1.252)	682078	20.0000	20.8272
	41 trans-1,3-Dichloropropene	75	13.105	13.105	(1.269)	449867	20.0000	20.8900
	42 1,1,2-Trichloroethane	85	13.371	13.371	(1.295)	190107	20.0000	20.2202
	43 2-Hexanone	43	13.430	13.430	(0.876)	320811	20.0000	20.0118
	44 1,3-Dichloropropane	76	13.795	13.795	(0.900)	479447	20.0000	20.5814
	45 Tetrachloroethene	166	14.081	14.081	(0.918)	226605	20.0000	19.7275
	46 Dibromochloromethane	129	14.248	14.248	(0.929)	315845	20.0000	19.9454
	47 1,2-Dibromoethane	107	14.603	14.603	(1.414)	347544	20.0000	20.3545
*	48 Chlorobenzene-d5	117	15.332	15.332	(1.000)	1649958	50.0000	
	49 Chlorobenzene	112	15.391	15.391	(1.004)	709209	20.0000	20.3325
	50 1,1,1,2-Tetrachloroethane	131	15.450	15.450	(1.008)	229165	20.0000	19.4299
	51 Ethylbenzene	91	15.529	15.529	(1.013)	1180555	20.0000	20.3663
	52 m,p-Xylenes	106	15.677	15.677	(1.022)	849534	40.0000	40.4390
	53 o-Xylene	106	16.425	16.425	(1.071)	431646	20.0000	20.3709
	54 Styrene	104	16.445	16.445	(1.073)	752841	20.0000	20.8254
	55 Bromoform	173	16.928	16.928	(1.104)	236606	20.0000	20.2110
	56 Isopropylbenzene	105	17.076	17.076	(0.870)	997486	20.0000	20.7541
	57 1,1,2,2-Tetrachloroethane	83	17.243	17.243	(0.879)	436247	20.0000	20.3509
$	58 Bromofluorobenzene	95	17.450	17.450	(0.890)	935018	50.0000	49.6278
	59 1,2,3-Trichloropropane	110	17.499	17.499	(0.892)	92031	20.0000	19.1342
	60 Propylbenzene	91	17.805	17.805	(0.908)	1263598	20.0000	20.9386
	61 Bromobenzene	156	17.795	17.795	(0.907)	297228	20.0000	19.9408
	62 2-Chlorotoluene	91	18.090	18.090	(0.922)	876002	20.0000	20.5344
	63 1,3,5-Trimethylbenzene	105	18.100	18.100	(0.923)	775175	20.0000	20.7066

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM07.D
Report Date: 22-Nov-2004 16:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.179	18.179	(0.927)	855609	20.0000	21.1066
65 tert-Butylbenzene	119	18.741	18.741	(0.955)	615344	20.0000	21.0120(M)
66 1,2,4-Trimethylbenzene	105	18.809	18.809	(0.959)	745566	20.0000	21.1472
67 sec-Butylbenzene	105	19.144	19.144	(0.976)	933719	20.0000	20.5632
68 para-Isopropyl Toluene	119	19.391	19.391	(0.988)	641411	20.0000	21.1306
69 1,3-Dichlorobenzene	146	19.499	19.499	(0.994)	472172	20.0000	20.7233
* 70 1,4-Dichlorobenzene-d4	152	19.617	19.617	(1.000)	762251	50.0000	
71 1,4-Dichlorobenzene	146	19.676	19.676	(1.003)	477532	20.0000	19.8123
72 n-Butylbenzene	91	20.139	20.139	(1.027)	565077	20.0000	20.4893
73 1,2-Dichlorobenzene	146	20.336	20.336	(1.037)	457421	20.0000	20.0351
74 1,2-Dibromo-3-Chloropropane	75	21.706	21.706	(1.106)	64193	20.0000	20.2630
75 1,2,4-Trichlorobenzene	180	23.302	23.302	(1.188)	175597	20.0000	20.1118
76 Hexachlorobutadiene	225	23.588	23.588	(1.202)	78165	20.0000	21.0927
77 Naphthalene	128	23.656	23.656	(1.206)	413560	20.0000	18.8267
78 1,2,3-Trichlorobenzene	180	24.080	24.080	(1.227)	168220	20.0000	19.3084

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\112204.b\FKM07.D
Date : 22-NOV-2004 12:20
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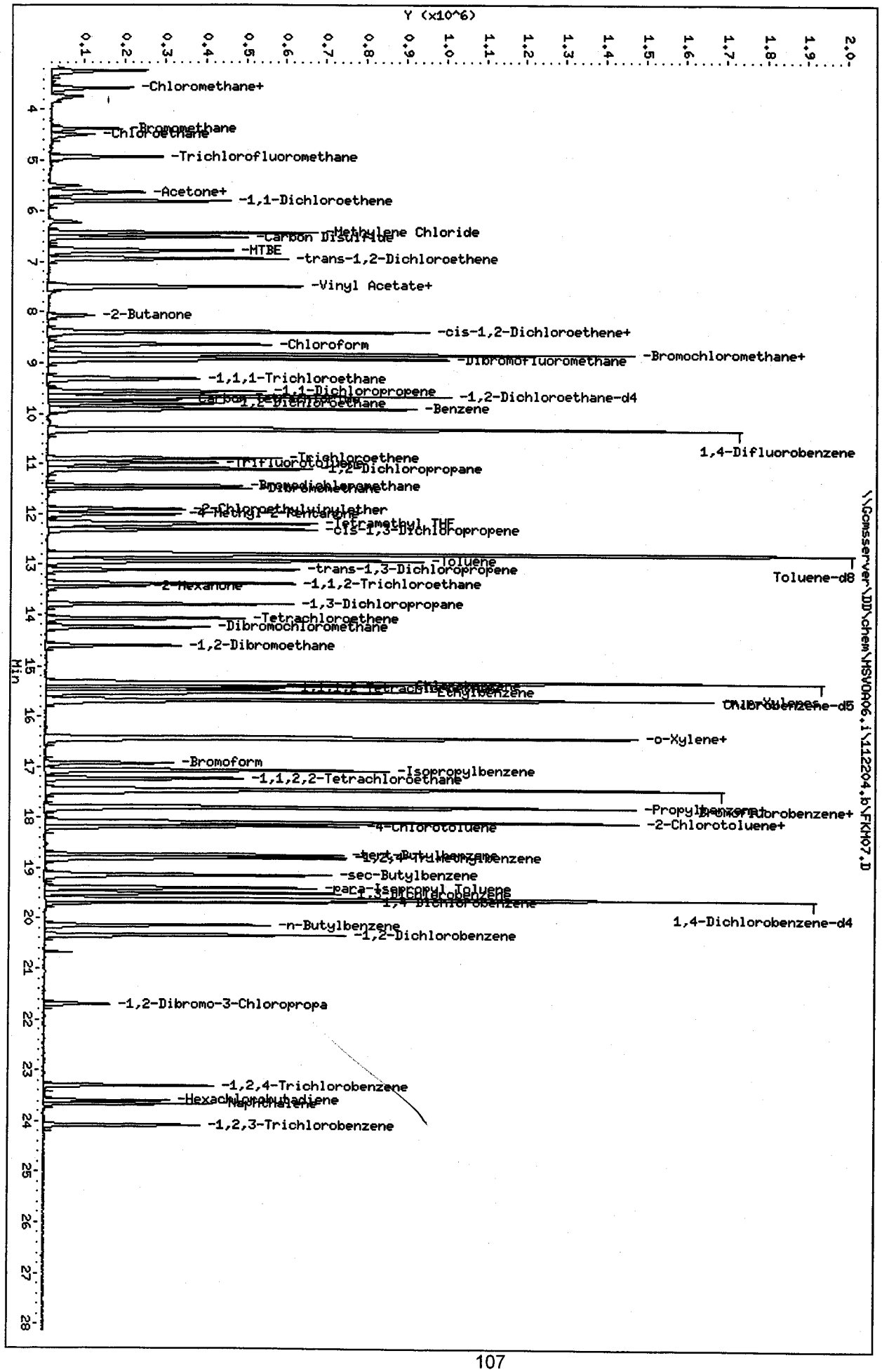
Sample Info: ICAL,04SS393,0.004/100,04WS2167A,0.008/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM08.D
Report Date: 22-Nov-2004 16:27

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM08.D
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Client Smp ID: DYNA P&T
Inj Date : 22-NOV-2004 12:54
MS Autotune Date: 26-OCT-2004 07:37
Operator : BO
Inst ID: MSVOA06.i
Smp Info : ICAL,04SS393,0.010/100,04WS2167A,0.020/100,
Misc Info : 04WS2204A,0.005/100,50PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\I6M826W.m
Meth Date : 22-Nov-2004 16:27 target
Quant Type: ISTD
Cal Date : 22-NOV-2004 10:36
Cal File: FKM04.D
Als bottle: 8
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.234	3.234	(0.365)	986546	50.0000	58.5323
2 Chloromethane	50	3.569	3.569	(0.403)	809962	50.0000	47.2141
3 Vinyl Chloride	62	3.737	3.737	(0.422)	429859	50.0000	52.0929
4 Bromomethane	94	4.377	4.377	(0.495)	451512	50.0000	50.8035
5 Chloroethane	64	4.505	4.505	(0.509)	348484	50.0000	51.2198
6 Trichlorofluoromethane	101	4.939	4.939	(0.558)	928245	50.0000	55.5347
7 Acetone	43	5.500	5.500	(0.622)	367199	50.0000	49.3821
8 Freon 113	101	5.628	5.628	(0.636)	560280	50.0000	50.6313
9 1,1-Dichloroethene	96	5.806	5.806	(0.656)	639215	50.0000	50.1511
10 Methylene Chloride	84	6.426	6.426	(0.726)	886127	50.0000	49.5658
11 Carbon Disulfide	76	6.515	6.515	(0.736)	2263870	50.0000	49.2603
12 MTBE	73	6.771	6.771	(0.765)	1894077	50.0000	50.2536
13 trans-1,2-Dichloroethene	96	6.939	6.939	(0.784)	760971	50.0000	51.1163
14 Vinyl Acetate	43	7.480	7.480	(0.845)	2148184	50.0000	50.5400
15 1,1-Dichloroethane	63	7.510	7.510	(0.849)	1496565	50.0000	49.0928
16 2-Butanone	43	8.062	8.062	(0.911)	574020	50.0000	48.6218

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM08.D
Report Date: 22-Nov-2004 16:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 cis-1,2-Dichloroethene	96	8.397	8.397	(0.949)	852201	50.0000	50.7725
	18 2,2-Dichloropropane	77	8.387	8.387	(0.948)	909223	50.0000	50.6203
	19 Chloroform	83	8.643	8.643	(0.977)	1405238	50.0000	50.8329
	20 Bromochloromethane	128	8.840	8.840	(0.999)	426322	50.0000	49.6861
*	21 Pentafluorobenzene	168	8.850	8.850	(1.000)	1129799	50.0000	
$	22 Dibromofluoromethane	113	8.939	8.939	(1.010)	869966	50.0000	49.4804
	23 1,1,1-Trichloroethane	97	9.313	9.313	(1.052)	1002341	50.0000	52.0785
	24 1,1-Dichloropropene	75	9.559	9.559	(0.926)	912415	50.0000	51.2696
$	25 1,2-Dichloroethane-d4	65	9.668	9.668	(0.937)	867243	50.0000	49.4657
	26 Carbon Tetrachloride	117	9.727	9.727	(0.943)	781400	50.0000	51.4175
	27 1,2-Dichloroethane	62	9.805	9.805	(0.950)	1103210	50.0000	50.0670
	28 Benzene	78	9.914	9.914	(0.961)	2731340	50.0000	49.6651
*	29 1,4-Difluorobenzene	114	10.318	10.318	(1.000)	1983729	50.0000	
	30 Trichloroethene	95	10.899	10.899	(1.056)	746486	50.0000	49.3389
$	31 Trifluorotoluene	146	10.988	10.988	(1.065)	767097	50.0000	50.6875
	32 1,2-Dichloropropane	63	11.106	11.106	(1.076)	910587	50.0000	50.5750
	33 Bromodichloromethane	83	11.441	11.441	(1.109)	1064106	50.0000	50.6060
	34 Dibromomethane	93	11.490	11.490	(1.114)	748516	50.0000	51.6148
	35 2-Chloroethylvinylether	63	11.914	11.914	(1.155)	543427	50.0000	52.7210
	36 4-Methyl-2-Pentanone	43	12.012	12.012	(1.164)	1159583	50.0000	50.8786
	37 Tetramethyl THF	43	12.199	12.199	(1.182)	2270290	50.0000	51.7796
	38 cis-1,3-Dichloropropene	75	12.318	12.318	(1.194)	1240576	50.0000	50.7374
$	39 Toluene-d8	98	12.810	12.810	(1.242)	2105137	50.0000	50.0358
	40 Toluene	92	12.938	12.938	(1.254)	1646776	50.0000	50.5176
	41 trans-1,3-Dichloropropene	75	13.116	13.116	(1.271)	1130717	50.0000	52.7495
	42 1,1,2-Trichloroethane	85	13.382	13.382	(1.297)	477330	50.0000	51.0054
	43 2-Hexanone	43	13.431	13.431	(0.876)	813136	50.0000	51.5561
	44 1,3-Dichloropropane	76	13.795	13.795	(0.900)	1155293	50.0000	50.4088
	45 Tetrachloroethene	166	14.081	14.081	(0.918)	584513	50.0000	51.7222
	46 Dibromochloromethane	129	14.249	14.249	(0.929)	805984	50.0000	51.7339
	47 1,2-Dibromoethane	107	14.603	14.603	(1.415)	875592	50.0000	51.5185
*	48 Chlorobenzene-d5	117	15.332	15.332	(1.000)	1623278	50.0000	
	49 Chlorobenzene	112	15.391	15.391	(1.004)	1719642	50.0000	50.1113
	50 1,1,1,2-Tetrachloroethane	131	15.450	15.450	(1.008)	597626	50.0000	51.5030
	51 Ethylbenzene	91	15.529	15.529	(1.013)	2860634	50.0000	50.1614
	52 m,p-Xylenes	106	15.677	15.677	(1.022)	2108987	100.000	102.0408
	53 o-Xylene	106	16.426	16.426	(1.071)	1109973	50.0000	53.2446
	54 Styrene	104	16.445	16.445	(1.073)	1938866	50.0000	54.5153
	55 Bromoform	173	16.938	16.938	(1.105)	616852	50.0000	53.5579
	56 Isopropylbenzene	105	17.086	17.086	(0.871)	2447070	50.0000	50.5405
	57 1,1,2,2-Tetrachloroethane	83	17.243	17.243	(0.879)	1102493	50.0000	51.0532
$	58 Bromofluorobenzene	95	17.450	17.450	(0.890)	942155	50.0000	49.6390
	59 1,2,3-Trichloropropane	110	17.500	17.500	(0.892)	236578	50.0000	48.8254
	60 Propylbenzene	91	17.805	17.805	(0.908)	3071832	50.0000	50.5280
	61 Bromobenzene	156	17.795	17.795	(0.907)	773862	50.0000	51.5361
	62 2-Chlorotoluene	91	18.091	18.091	(0.922)	2146936	50.0000	49.9564
	63 1,3,5-Trimethylbenzene	105	18.101	18.101	(0.923)	1944801	50.0000	51.5680

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM08.D
Report Date: 22-Nov-2004 16:27

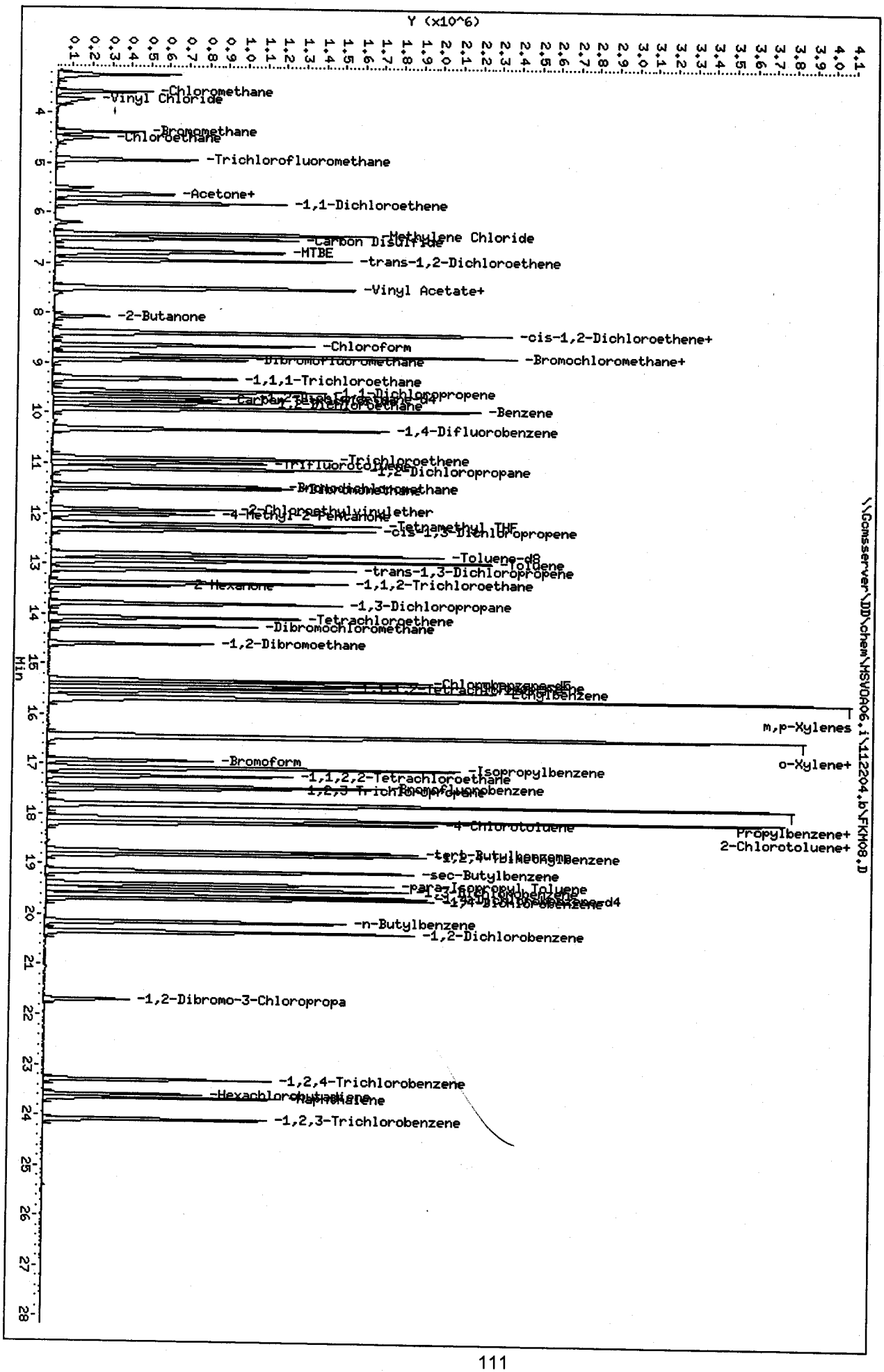
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.170	18.170	(0.926)	2069546	50.0000	50.6773
65 tert-Butylbenzene	119	18.741	18.741	(0.955)	1512106	50.0000	51.2541(M)
66 1,2,4-Trimethylbenzene	105	18.810	18.810	(0.959)	1849346	50.0000	52.0690
67 sec-Butylbenzene	105	19.145	19.145	(0.976)	2365211	50.0000	51.7059
68 para-Isopropyl Toluene	119	19.391	19.391	(0.988)	1636187	50.0000	53.5062
69 1,3-Dichlorobenzene	146	19.499	19.499	(0.994)	1183826	50.0000	51.5754
* 70 1,4-Dichlorobenzene-d4	152	19.618	19.618	(1.000)	767897	50.0000	
71 1,4-Dichlorobenzene	146	19.677	19.677	(1.003)	1209134	50.0000	49.7968
72 n-Butylbenzene	91	20.140	20.140	(1.027)	1501673	50.0000	54.0492
73 1,2-Dichlorobenzene	146	20.337	20.337	(1.037)	1195282	50.0000	51.9686
74 1,2-Dibromo-3-Chloropropane	75	21.706	21.706	(1.106)	161447	50.0000	50.5874
75 1,2,4-Trichlorobenzene	180	23.302	23.302	(1.188)	496023	50.0000	50.2266
76 Hexachlorobutadiene	225	23.588	23.588	(1.202)	202169	50.0000	49.3562
77 Naphthalene	128	23.657	23.657	(1.206)	1194913	50.0000	51.0160
78 1,2,3-Trichlorobenzene	180	24.090	24.090	(1.228)	503042	50.0000	50.7616

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\112204.b\FKH08.D
Date : 22-NOV-2004 12:54
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.010/100,04WS2167A,0.020/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM13.D
Report Date: 22-Nov-2004 16:27

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM13.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 22-NOV-2004 15:53 MS Autotune Date: 26-OCT-2004 07:37
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,04SS393,0.015/100,04WS2167A,0.030/100,
Misc Info : 04WS2204A,0.0075/100,75PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\I6M826W.m
Meth Date : 22-Nov-2004 16:27 target Quant Type: ISTD
Cal Date : 22-NOV-2004 15:53 Cal File: FKM13.D
Als bottle: 13 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.234	3.234	(0.365)	1454040	75.0000	75.8431
2 Chloromethane	50	3.579	3.579	(0.404)	1374487	75.0000	70.4384
3 Vinyl Chloride	62	3.737	3.737	(0.422)	599521	75.0000	63.8731(M)
4 Bromomethane	94	4.387	4.387	(0.496)	662432	75.0000	65.5280
5 Chloroethane	64	4.505	4.505	(0.509)	543273	75.0000	70.1996
6 Trichlorofluoromethane	101	4.948	4.948	(0.559)	1394512	75.0000	73.3475
7 Acetone	43	5.500	5.500	(0.622)	740500	75.0000	87.5496
8 Freon 113	101	5.638	5.638	(0.637)	1079352	75.0000	85.7508
9 1,1-Dichloroethene	96	5.815	5.815	(0.657)	1138855	75.0000	78.5532
10 Methylene Chloride	84	6.426	6.426	(0.726)	1466893	75.0000	72.1349
11 Carbon Disulfide	76	6.525	6.525	(0.737)	3752376	75.0000	71.7816
12 MTBE	73	6.781	6.781	(0.766)	3138718	75.0000	73.2121
13 trans-1,2-Dichloroethene	96	6.938	6.938	(0.784)	1287639	75.0000	76.0408
14 Vinyl Acetate	43	7.480	7.480	(0.845)	3427171	75.0000	70.8860
15 1,1-Dichloroethane	63	7.510	7.510	(0.849)	2466588	75.0000	71.1344
16 2-Butanone	43	8.061	8.061	(0.911)	1050579	75.0000	78.2338

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM13.D
Report Date: 22-Nov-2004 16:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.396	8.396	(0.949)	1422498	75.0000	74.5074
18 2,2-Dichloropropane	77	8.396	8.396	(0.949)	1681385	75.0000	82.2968
19 Chloroform	83	8.643	8.643	(0.977)	2254567	75.0000	73.9244
20 Bromochloromethane	128	8.840	8.840	(0.999)	729166	75.0000	74.7110
* 21 Pentafluorobenzene	168	8.850	8.850	(1.000)	1285109	50.0000	
$ 22 Dibromofluoromethane	113	8.938	8.938	(1.010)	973535	50.0000	48.6792
23 1,1,1-Trichloroethane	97	9.313	9.313	(1.052)	1688259	75.0000	77.1158
24 1,1-Dichloropropene	75	9.559	9.559	(0.926)	1603488	75.0000	80.5497
$ 25 1,2-Dichloroethane-d4	65	9.667	9.667	(0.936)	957897	50.0000	48.8442
26 Carbon Tetrachloride	117	9.736	9.736	(0.943)	1418029	75.0000	83.4169
27 1,2-Dichloroethane	62	9.805	9.805	(0.949)	1799334	75.0000	73.0022
28 Benzene	78	9.923	9.923	(0.961)	4352245	75.0000	70.7489
* 29 1,4-Difluorobenzene	114	10.327	10.327	(1.000)	2218971	50.0000	
30 Trichloroethene	95	10.899	10.899	(1.055)	1276534	75.0000	75.4278
$ 31 Trifluorotoluene	146	10.987	10.987	(1.064)	1487104	75.0000	87.8461
32 1,2-Dichloropropane	63	11.106	11.106	(1.075)	1495679	75.0000	74.2650
33 Bromodichloromethane	83	11.450	11.450	(1.109)	1752134	75.0000	74.4930
34 Dibromomethane	93	11.490	11.490	(1.113)	1232134	75.0000	75.9559
35 2-Chloroethylvinylether	63	11.913	11.913	(1.154)	912242	75.0000	79.1195
36 4-Methyl-2-Pentanone	43	12.012	12.012	(1.163)	1926733	75.0000	75.5764
37 Tetramethyl THF	43	12.199	12.199	(1.181)	3668254	75.0000	74.7942
38 cis-1,3-Dichloropropene	75	12.317	12.317	(1.193)	2071407	75.0000	75.7357
$ 39 Toluene-d8	98	12.800	12.800	(1.239)	2358326	50.0000	50.1112
40 Toluene	92	12.938	12.938	(1.253)	2704360	75.0000	74.1657
41 trans-1,3-Dichloropropene	75	13.115	13.115	(1.270)	1861423	75.0000	77.6319
42 1,1,2-Trichloroethane	85	13.381	13.381	(1.296)	791500	75.0000	75.6100
43 2-Hexanone	43	13.431	13.431	(0.876)	1414965	75.0000	79.5068
44 1,3-Dichloropropane	76	13.795	13.795	(0.900)	1892781	75.0000	73.1908
45 Tetrachloroethene	166	14.081	14.081	(0.918)	1059956	75.0000	83.1213
46 Dibromochloromethane	129	14.248	14.248	(0.929)	1399360	75.0000	79.6012
47 1,2-Dibromoethane	107	14.603	14.603	(1.414)	1479169	75.0000	77.8054
* 48 Chlorobenzene-d5	117	15.332	15.332	(1.000)	1831687	50.0000	
49 Chlorobenzene	112	15.391	15.391	(1.004)	2826796	75.0000	73.0018
50 1,1,1,2-Tetrachloroethane	131	15.460	15.460	(1.008)	1023952	75.0000	78.2032
51 Ethylbenzene	91	15.529	15.529	(1.013)	4569366	75.0000	71.0076
52 m,p-Xylenes	106	15.677	15.677	(1.022)	3447285	150.000	147.8151
53 o-Xylene	106	16.425	16.425	(1.071)	1809078	75.0000	76.9063
54 Styrene	104	16.445	16.445	(1.073)	3063176	75.0000	76.3280
55 Bromoform	173	16.938	16.938	(1.105)	1074740	75.0000	82.6966
56 Isopropylbenzene	105	17.076	17.076	(0.870)	4032458	75.0000	73.3751
57 1,1,2,2-Tetrachloroethane	83	17.243	17.243	(0.879)	1810188	75.0000	73.8510
$ 58 Bromofluorobenzene	95	17.450	17.450	(0.890)	1029240	50.0000	47.7752
59 1,2,3-Trichloropropane	110	17.499	17.499	(0.892)	402052	75.0000	73.1036
60 Propylbenzene	91	17.805	17.805	(0.908)	4923459	75.0000	71.3495
61 Bromobenzene	156	17.805	17.805	(0.908)	1312104	75.0000	76.9842
62 2-Chlorotoluene	91	18.090	18.090	(0.922)	3463069	75.0000	70.9935
63 1,3,5-Trimethylbenzene	105	18.100	18.100	(0.923)	3291612	75.0000	76.8952

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM13.D
Report Date: 22-Nov-2004 16:27

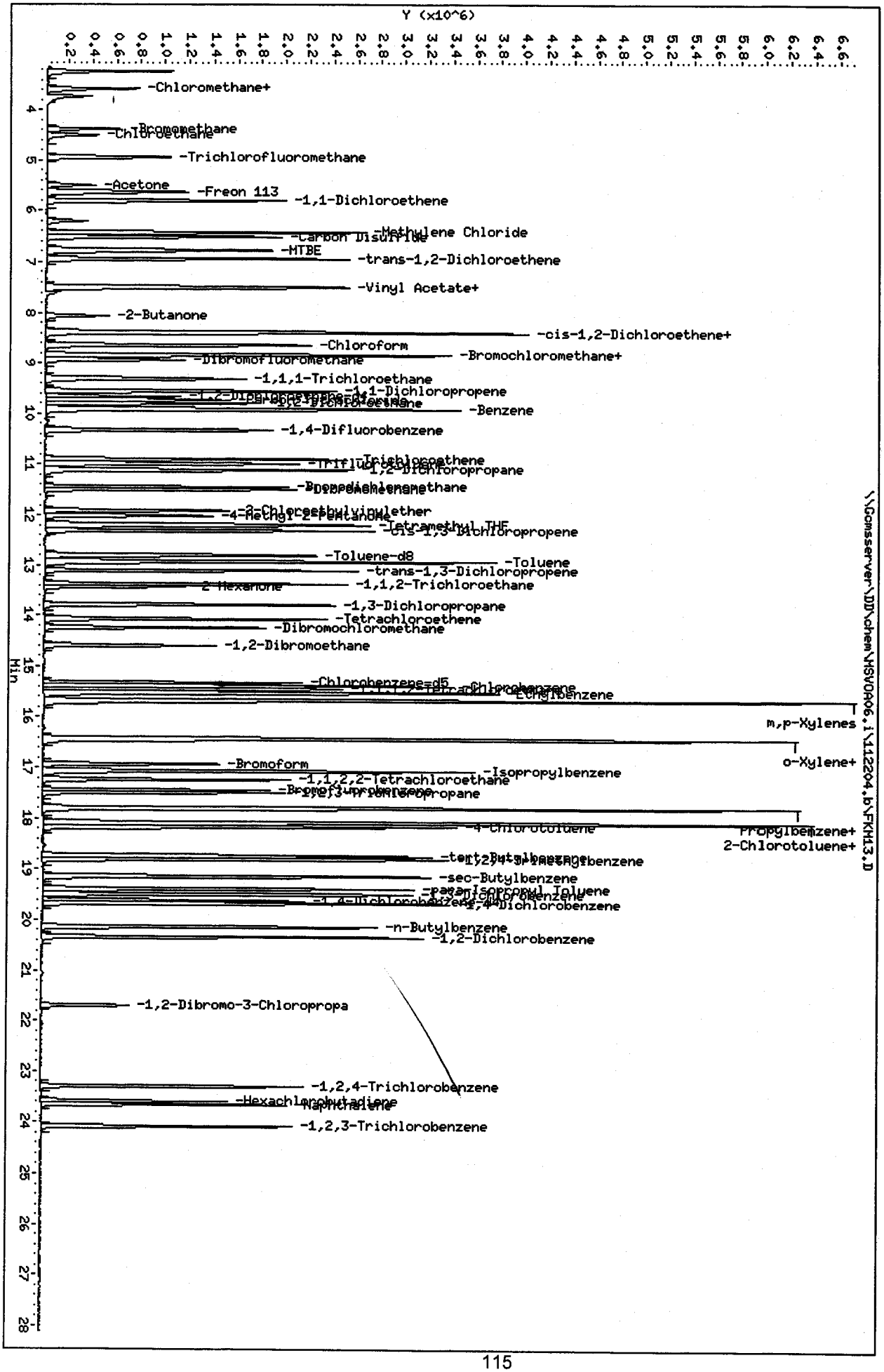
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.169	18.169	(0.926)	3332485	75.0000	71.8939
65 tert-Butylbenzene	119	18.741	18.741	(0.955)	2594777	75.0000	77.4875(M)
66 1,2,4-Trimethylbenzene	105	18.810	18.810	(0.959)	3138793	75.0000	77.8591
67 sec-Butylbenzene	105	19.145	19.145	(0.976)	4009578	75.0000	77.2243
68 para-Isopropyl Toluene	119	19.391	19.391	(0.988)	2881648	75.0000	83.0228
69 1,3-Dichlorobenzene	146	19.499	19.499	(0.994)	1987514	75.0000	76.2869
* 70 1,4-Dichlorobenzene-d4	152	19.617	19.617	(1.000)	871601	50.0000	
71 1,4-Dichlorobenzene	146	19.677	19.677	(1.003)	2064561	75.0000	74.9101
72 n-Butylbenzene	91	20.140	20.140	(1.027)	2721362	75.0000	86.2951
73 1,2-Dichlorobenzene	146	20.337	20.337	(1.037)	1974638	75.0000	75.6387
74 1,2-Dibromo-3-Chloropropane	75	21.696	21.696	(1.106)	275269	75.0000	75.9897
75 1,2,4-Trichlorobenzene	180	23.302	23.302	(1.188)	938588	75.0000	74.9208
76 Hexachlorobutadiene	225	23.588	23.588	(1.202)	397654	75.0000	75.1630
77 Naphthalene	128	23.657	23.657	(1.206)	2025746	75.0000	74.7864
78 1,2,3-Trichlorobenzene	180	24.080	24.080	(1.227)	917939	75.0000	74.7424

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\112204.b\FKM13.D
Date : 22-NOV-2004 15:53
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.015/100,04WS2167A,0.030/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.32



Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM10.D
Report Date: 22-Nov-2004 16:27

Curtis & Tompkins

Data file : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM10.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 22-NOV-2004 14:07 MS Autotune Date: 26-OCT-2004 07:37
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICAL,04SS393,0.020/100,04WS2167A,0.040/100,
Misc Info : 04WS2204A,0.010/100,100PPB, NP NL
Comment :
Method : \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\I6M826W.m
Meth Date : 22-Nov-2004 16:27 target Quant Type: ISTD
Cal Date : 22-NOV-2004 10:36 Cal File: FKM04.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PC_MSVOA07

Concentration Formula: Amt * DF * Uf/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	3.238	3.238	(0.366)	1903822	100.000	102.2599
2 Chloromethane	50	3.573	3.573	(0.404)	1593145	100.000	84.0743
3 Vinyl Chloride	62	3.731	3.731	(0.422)	739636	100.000	81.1468(M) N 4/23/05
4 Bromomethane	94	4.381	4.381	(0.495)	965133	100.000	98.3133
5 Chloroethane	64	4.499	4.499	(0.509)	700910	100.000	93.2648
6 Trichlorofluoromethane	101	4.942	4.942	(0.559)	1732034	100.000	93.8120
7 Acetone	43	5.504	5.504	(0.622)	742857	100.000	90.4428
8 Freon 113	101	5.632	5.632	(0.637)	1364667	100.000	111.6455
9 1,1-Dichloroethene	96	5.809	5.809	(0.657)	1420645	100.000	100.9067
10 Methylene Chloride	84	6.420	6.420	(0.726)	1880021	100.000	95.2027
11 Carbon Disulfide	76	6.519	6.519	(0.737)	4586998	100.000	90.3597
12 MTBE	73	6.775	6.775	(0.766)	4016661	100.000	96.4795
13 trans-1,2-Dichloroethene	96	6.942	6.942	(0.785)	1627268	100.000	98.9580
14 Vinyl Acetate	43	7.484	7.484	(0.846)	4309764	100.000	91.7947
15 1,1-Dichloroethane	63	7.504	7.504	(0.849)	3156108	100.000	93.7291
16 2-Butanone	43	8.065	8.065	(0.912)	1220812	100.000	93.6168

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM10.D
Report Date: 22-Nov-2004 16:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 cis-1,2-Dichloroethene	96	8.390	8.390	(0.949)	1800447	100.000	97.1108
18 2,2-Dichloropropane	77	8.390	8.390	(0.949)	1902961	100.000	95.9147
19 Chloroform	83	8.637	8.637	(0.977)	2879778	100.000	100.3757
20 Bromochloromethane	128	8.844	8.844	(1.000)	934858	100.000	98.6378
* 21 Pentafluorobenzene	168	8.844	8.844	(1.000)	1247960	50.0000	
$ 22 Dibromofluoromethane	113	8.932	8.932	(1.010)	947071	50.0000	48.7657
23 1,1,1-Trichloroethane	97	9.307	9.307	(1.052)	2164144	100.000	101.7958
24 1,1-Dichloropropene	75	9.563	9.563	(0.926)	1990397	100.000	103.1137
$ 25 1,2-Dichloroethane-d4	65	9.661	9.661	(0.936)	948295	50.0000	49.8673
26 Carbon Tetrachloride	117	9.730	9.730	(0.943)	1771152	100.000	107.4492
27 1,2-Dichloroethane	62	9.809	9.809	(0.950)	2327144	100.000	97.3702
28 Benzene	78	9.917	9.917	(0.961)	5416121	100.000	90.7974
* 29 1,4-Difluorobenzene	114	10.321	10.321	(1.000)	2151658	50.0000	
30 Trichloroethene	95	10.893	10.893	(1.055)	1603515	100.000	97.7125
$ 31 Trifluorotoluene	146	10.991	10.991	(1.065)	1830763	100.000	111.5301
32 1,2-Dichloropropane	63	11.109	11.109	(1.076)	1931659	100.000	98.9133
33 Bromodichloromethane	83	11.444	11.444	(1.109)	2257505	100.000	98.9818
34 Dibromomethane	93	11.494	11.494	(1.114)	1577537	100.000	100.2909
35 2-Chloroethylvinylether	63	11.907	11.907	(1.154)	1170304	100.000	104.6769
36 4-Methyl-2-Pentanone	43	12.006	12.006	(1.163)	2433469	100.000	98.4394
37 Tetramethyl THF	43	12.203	12.203	(1.182)	4638506	100.000	97.5360
38 cis-1,3-Dichloropropene	75	12.311	12.311	(1.193)	2616816	100.000	98.6704
$ 39 Toluene-d8	98	12.804	12.804	(1.241)	2275432	50.0000	49.8624
40 Toluene	92	12.932	12.932	(1.253)	3417511	100.000	96.6556
41 trans-1,3-Dichloropropene	75	13.109	13.109	(1.270)	2367298	100.000	101.8184
42 1,1,2-Trichloroethane	85	13.375	13.375	(1.296)	1048131	100.000	103.2576
43 2-Hexanone	43	13.434	13.434	(0.876)	1736897	100.000	99.8878
44 1,3-Dichloropropane	76	13.789	13.789	(0.899)	2429606	100.000	96.1549
45 Tetrachloroethene	166	14.085	14.085	(0.918)	1331863	100.000	106.8965
46 Dibromochloromethane	129	14.242	14.242	(0.929)	1785376	100.000	103.9441
47 1,2-Dibromoethane	107	14.607	14.607	(1.415)	1906634	100.000	103.4280
* 48 Chlorobenzene-d5	117	15.336	15.336	(1.000)	1789665	50.0000	
49 Chlorobenzene	112	15.395	15.395	(1.004)	3581782	100.000	94.6712
50 1,1,1,2-Tetrachloroethane	131	15.454	15.454	(1.008)	1343100	100.000	104.9863
51 Ethylbenzene	91	15.523	15.523	(1.012)	5747519	100.000	91.4132
52 m,p-Xylenes	106	15.681	15.681	(1.022)	4373947	200.000	191.9529
53 o-Xylene	106	16.429	16.429	(1.071)	2326556	100.000	101.2273
54 Styrene	104	16.449	16.449	(1.073)	3917262	100.000	99.9020
55 Bromoform	173	16.932	16.932	(1.104)	1409191	100.000	110.9772
56 Isopropylbenzene	105	17.080	17.080	(0.870)	5081374	100.000	92.0161
57 1,1,2,2-Tetrachloroethane	83	17.247	17.247	(0.879)	2293149	100.000	93.1041
$ 58 Bromofluorobenzene	95	17.454	17.454	(0.890)	1030005	50.0000	47.5805
59 1,2,3-Trichloropropane	110	17.503	17.503	(0.892)	518037	100.000	93.7392
60 Propylbenzene	91	17.809	17.809	(0.908)	6106075	100.000	88.0616
61 Bromobenzene	156	17.799	17.799	(0.907)	1718714	100.000	100.3554
62 2-Chlorotoluene	91	18.084	18.084	(0.922)	4392934	100.000	89.6222
63 1,3,5-Trimethylbenzene	105	18.104	18.104	(0.923)	4133819	100.000	96.1049

Data File: \\GCMSSERVER\DD\chem\MSVOA06.i\112204.b\FKM10.D
Report Date: 22-Nov-2004 16:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 4-Chlorotoluene	91	18.173	18.173	(0.926)	4181763	100.000	89.7816
65 tert-Butylbenzene	119	18.744	18.744	(0.955)	3360653	100.000	99.8755(M)
66 1,2,4-Trimethylbenzene	105	18.804	18.804	(0.958)	4044446	100.000	99.8412
67 sec-Butylbenzene	105	19.139	19.139	(0.975)	5073335	100.000	97.2418
68 para-Isopropyl Toluene	119	19.395	19.395	(0.988)	3648825	100.000	104.6197
69 1,3-Dichlorobenzene	146	19.503	19.503	(0.994)	2582079	100.000	98.6309
* 70 1,4-Dichlorobenzene-d4	152	19.621	19.621	(1.000)	875818	50.0000	
71 1,4-Dichlorobenzene	146	19.680	19.680	(1.003)	2630889	100.000	94.9990
72 n-Butylbenzene	91	20.143	20.143	(1.027)	3472969	100.000	109.5985
73 1,2-Dichlorobenzene	146	20.340	20.340	(1.037)	2571753	100.000	98.0369
74 1,2-Dibromo-3-Chloropropane	75	21.700	21.700	(1.106)	359930	100.000	98.8825
75 1,2,4-Trichlorobenzene	180	23.306	23.306	(1.188)	1238456	100.000	89.6077
76 Hexachlorobutadiene	225	23.591	23.591	(1.202)	501265	100.000	86.4199
77 Naphthalene	128	23.660	23.660	(1.206)	2763632	100.000	99.9079
78 1,2,3-Trichlorobenzene	180	24.084	24.084	(1.227)	1233590	100.000	92.2369

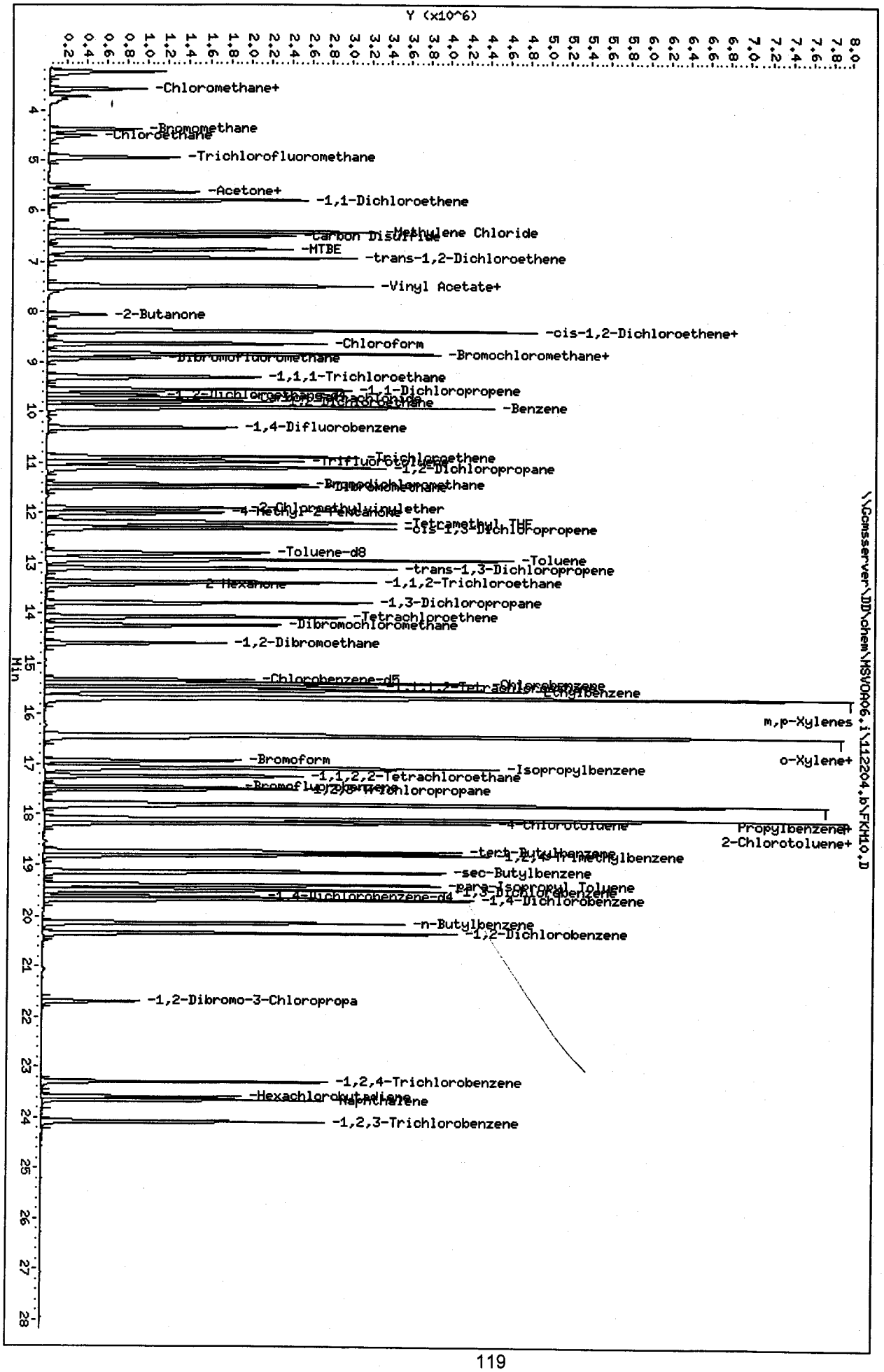
Re 11/23/04

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA06.i\112204.b\FKH10.D
Date : 22-NOV-2004 14:07
Client ID: DYNA P&T
Sample Info: ICAL,04SS393,0.020/100,04WS2167A,0.040/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA06.i
Operator: BO
Column diameter: 0.32



8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB
Seqnum : 454471408014 Filename : fkm14 Injected : 22-NOV-2004 16:27
Calnum : 454471408001 Caldate : 22-NOV-2004 Caltype : WATER
Standards: 04WS2093C (5000X), 04WS2097 (1000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	42.79250	ug/L	-14	30	
Chloromethane	50.00000	42.30010	ug/L	-15	30	
Vinyl Chloride	50.00000	50.53980	ug/L	1	20	
Bromomethane	50.00000	48.92310	ug/L	-2	30	
Chloroethane	50.00000	49.11360	ug/L	-2	30	
Trichlorofluoromethane	50.00000	51.34310	ug/L	3	30	
Dibromofluoromethane	50.00000	49.40510	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	49.58360	ug/L	-1	30	
Toluene-d8	50.00000	49.68270	ug/L	-1	30	
Bromofluorobenzene	50.00000	51.25810	ug/L	3	30	

ISTD (ICAL=fkm08)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1129799	1188188	5.17	8.85	8.85	0.00
1,4-Difluorobenzene	1983729	2128724	7.31	10.32	10.32	0.00
Chlorobenzene-d5	1623278	1762665	8.59	15.33	15.33	0.00
1,4-Dichlorobenzene-d4	767897	764957	-0.38	19.62	19.62	0.00

pw 11/23/04

11/23/04

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKM14.D
Report Date: 23-Nov-2004 08:45

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKM14.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 22-NOV-2004 16:27
MS Autotune Date: 26-OCT-2004 07:37
Operator : BO
Inst ID: MSVOA06.i
Smp Info : ICV,04WS2093C,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\I6M826W.m
Meth Date : 22-Nov-2004 16:28 target
Quant Type: ISTD
Cal Date : 22-NOV-2004 15:53
Cal File: FKM13.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.235	3.234	(0.366)	758530	42.7925	42.7924
2 Chloromethane	50	3.580	3.579	(0.405)	763163	42.3001	42.3000
3 Vinyl Chloride	62	3.747	3.737	(0.423)	438596	50.5398	50.5398
4 Bromomethane	94	4.378	4.387	(0.495)	457271	48.9231	48.9231
5 Chloroethane	64	4.506	4.505	(0.509)	351423	49.1136	49.1135
6 Trichlorofluoromethane	101	4.939	4.948	(0.558)	902536	51.3431	51.3431
7 Acetone	43	5.501	5.500	(0.622)	5131	0.65612	0.6561
9 1,1-Dichloroethene	96	5.816	5.815	(0.657)	2375	0.17718	0.1771(a)
10 Methylene Chloride	84	6.417	6.426	(0.725)	3952	0.21019	0.2101(a)
11 Carbon Disulfide	76	6.516	6.525	(0.736)	15706	0.32496	0.3249(a)
13 trans-1,2-Dichloroethene	96	6.949	6.938	(0.785)	3843	0.24546	0.2454(a)
15 1,1-Dichloroethane	63	7.521	7.510	(0.850)	4380	0.13662	0.1366(a)
16 2-Butanone	43	8.082	8.061	(0.913)	6480	0.52191	0.5219
18 2,2-Dichloropropane	77	8.387	8.396	(0.948)	2369	0.12541	0.1254(a)
19 Chloroform	83	8.644	8.643	(0.977)	10600	0.22985	0.2298(a)
* 21 Pentafluorobenzene	168	8.851	8.850	(1.000)	1188188	50.0000	
$ 22 Dibromofluoromethane	113	8.939	8.938	(1.010)	913533	49.4051	49.4050
23 1,1,1-Trichloroethane	97	9.323	9.313	(1.053)	2392	0.11817	0.1181(a)
24 1,1-Dichloropropene	75	9.550	9.559	(0.926)	4390	0.22988	0.2298(a)
$ 25 1,2-Dichloroethane-d4	65	9.668	9.667	(0.937)	932848	49.5836	49.5835
28 Benzene	78	9.914	9.923	(0.961)	9140	0.15488	0.1548(a)
* 29 1,4-Difluorobenzene	114	10.318	10.327	(1.000)	2128724	50.0000	

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKM14.D
Report Date: 23-Nov-2004 08:45

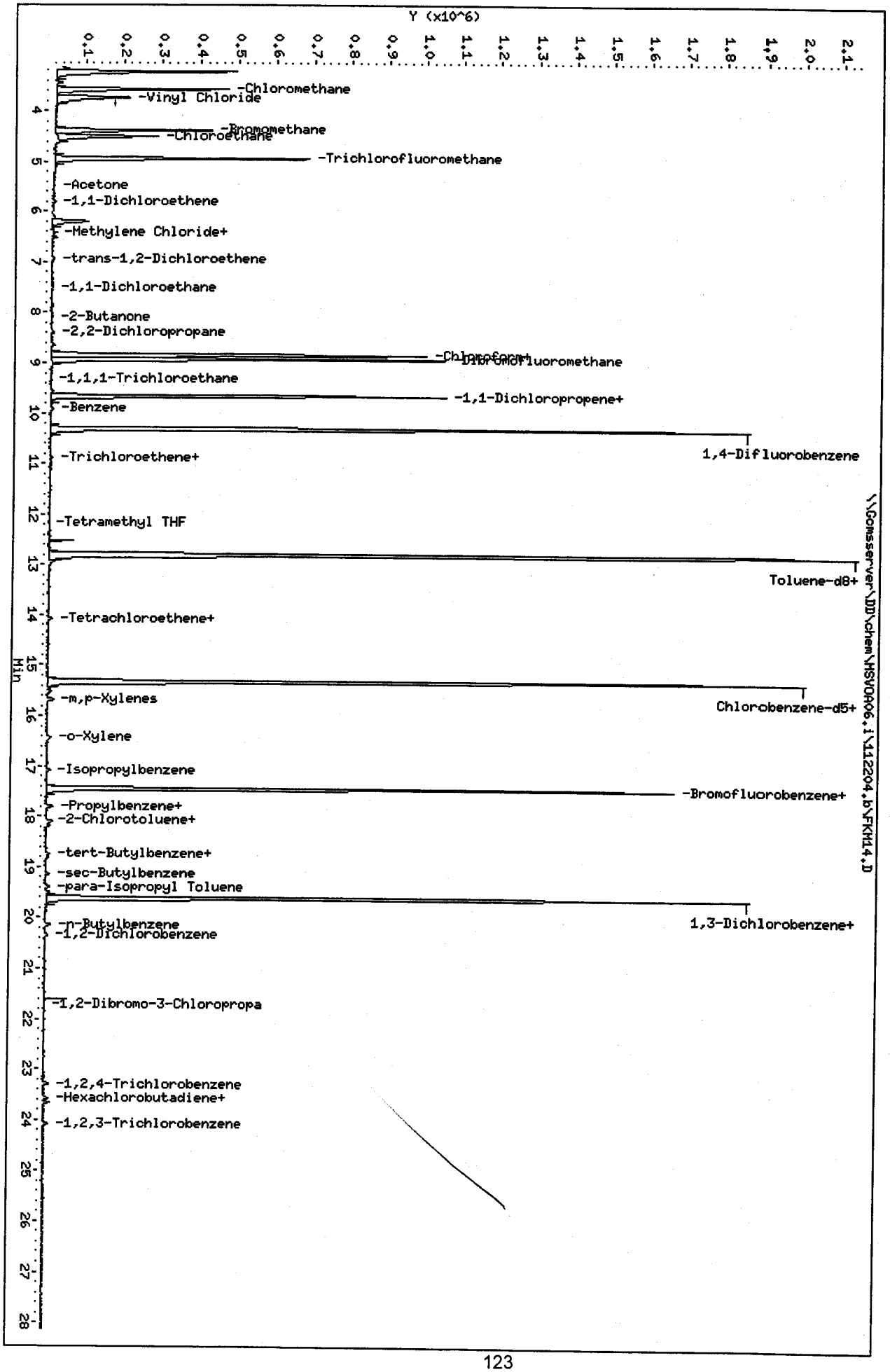
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
30 Trichloroethene	95	10.900	10.899	(1.056)	2884	0.17763	0.1776(a)
$ 31 Trifluorotoluene	146	10.969	10.987	(1.063)	1619	0.09969	0.0996(aA)
37 Tetramethyl THF	43	12.171	12.199	(1.179)	117	0.00249	0.0024(aA)
$ 39 Toluene-d8	98	12.801	12.800	(1.241)	2243061	49.6827	49.6826
40 Toluene	92	12.929	12.938	(1.253)	3660	0.10463	0.1046(a)
45 Tetrachloroethene	166	14.072	14.081	(0.918)	4898	0.39914	0.3991(a)
46 Dibromochloromethane	129	14.072	14.248	(0.918)	3535	0.20896	0.2089(a)
* 48 Chlorobenzene-d5	117	15.333	15.332	(1.000)	1762665	50.0000	
49 Chlorobenzene	112	15.392	15.391	(1.004)	6036	0.16198	0.1619(a)
51 Ethylbenzene	91	15.520	15.529	(1.012)	12914	0.20854	0.2085(a)
52 m,p-Xylenes	106	15.678	15.677	(1.022)	9780	0.43577	0.4357(a)
53 o-Xylene	106	16.436	16.425	(1.072)	2721	0.12020	0.1202(a)
56 Isopropylbenzene	105	17.077	17.076	(0.870)	10216	0.21181	0.2118(a)
$ 58 Bromofluorobenzene	95	17.451	17.450	(0.890)	969161	51.2581	51.2581
59 1,2,3-Trichloropropane	110	17.451	17.499	(0.890)	701	0.14523	0.1452(a)
60 Propylbenzene	91	17.806	17.805	(0.908)	19443	0.32104	0.3210(a)
61 Bromobenzene	156	17.796	17.805	(0.907)	1878	0.12555	0.1255(a)
62 2-Chlorotoluene	91	18.081	18.090	(0.922)	12553	0.29321	0.2932(a)
63 1,3,5-Trimethylbenzene	105	18.101	18.100	(0.923)	10640	0.28321	0.2832(a)
64 4-Chlorotoluene	91	18.170	18.169	(0.926)	12770	0.31390	0.3139(a)
65 tert-Butylbenzene	119	18.742	18.741	(0.955)	4298	0.14624	0.1462(a)
66 1,2,4-Trimethylbenzene	105	18.811	18.810	(0.959)	8885	0.25112	0.2511(a)
67 sec-Butylbenzene	105	19.145	19.145	(0.976)	13775	0.30229	0.3022(a)
68 para-Isopropyl Toluene	119	19.402	19.391	(0.989)	9931	0.32601	0.3260(a)
69 1,3-Dichlorobenzene	146	19.510	19.499	(0.994)	9506	0.41574	0.4157(a)
* 70 1,4-Dichlorobenzene-d4	152	19.618	19.617	(1.000)	764957	50.0000	
71 1,4-Dichlorobenzene	146	19.677	19.677	(1.003)	10269	0.42454	0.4245(a)
72 n-Butylbenzene	91	20.140	20.140	(1.027)	15968	0.57694	0.5769
73 1,2-Dichlorobenzene	146	20.347	20.337	(1.037)	5276	0.23027	0.2302(a)
74 1,2-Dibromo-3-Chloropropane	75	21.707	21.696	(1.106)	538	0.16922	0.1692(a)
75 1,2,4-Trichlorobenzene	180	23.303	23.302	(1.188)	7137	1.57524	1.5752
76 Hexachlorobutadiene	225	23.589	23.588	(1.202)	2833	0.65808	0.6580
77 Naphthalene	128	23.658	23.657	(1.206)	17274	1.94938	1.9493
78 1,2,3-Trichlorobenzene	180	24.081	24.080	(1.227)	5561	1.83553	1.8355

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Comsserver\DD\chem\HSVOA06.i\112204.b\FKH14.D
Date : 22-NOV-2004 16:27
Client ID: DYNA P&T
Sample Info: ICV,04WS2093C,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: BO
Column diameter: 0.32



8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB
Seqnum : 454471408015 Filename : fkm15 Injected : 22-NOV-2004 17:02
Calnum : 454471408001 Caldate : 22-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2097 (1000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	59.58470	ug/L	19	40	
Freon 113	50.00000	60.50660	ug/L	21	30	!v+
1,1-Dichloroethene	50.00000	48.68590	ug/L	-3	20	
Methylene Chloride	50.00000	49.21660	ug/L	-2	30	
Carbon Disulfide	50.00000	41.46200	ug/L	-17	30	
MTBE	50.00000	56.61470	ug/L	13	30	
trans-1,2-Dichloroethene	50.00000	51.03600	ug/L	2	30	
Vinyl Acetate	50.00000	53.16900	ug/L	6	40	
1,1-Dichloroethane	50.00000	51.50010	ug/L	3	30	
2-Butanone	50.00000	53.96630	ug/L	8	40	
2,2-Dichloropropane	50.00000	56.08720	ug/L	12	30	
cis-1,2-Dichloroethene	50.00000	52.68010	ug/L	5	30	
Chloroform	50.00000	50.52530	ug/L	1	20	
Bromochloromethane	50.00000	50.01350	ug/L	0	30	
1,1,1-Trichloroethane	50.00000	53.94880	ug/L	8	30	
1,1-Dichloropropene	50.00000	52.74110	ug/L	5	30	
Carbon Tetrachloride	50.00000	55.18100	ug/L	10	30	
1,2-Dichloroethane	50.00000	50.75720	ug/L	2	30	
Benzene	50.00000	51.51820	ug/L	3	30	
Trichloroethene	50.00000	51.27050	ug/L	3	30	
1,2-Dichloropropane	50.00000	51.55150	ug/L	3	20	
Bromodichloromethane	50.00000	53.56330	ug/L	7	30	
Dibromomethane	50.00000	51.67530	ug/L	3	30	
2-Chloroethylvinylether	50.00000	13.43200	ug/L	-73	40	v- ***
4-Methyl-2-Pentanone	50.00000	51.72540	ug/L	3	40	
Tetramethyl THF	50.00000	51.17820	ug/L	2	30	
cis-1,3-Dichloropropene	50.00000	52.73440	ug/L	5	30	
Toluene	50.00000	52.28960	ug/L	5	20	
trans-1,3-Dichloropropene	50.00000	50.53310	ug/L	1	30	
1,1,2-Trichloroethane	50.00000	52.50260	ug/L	5	30	
2-Hexanone	50.00000	54.03020	ug/L	8	40	
1,3-Dichloropropane	50.00000	49.10700	ug/L	-2	30	
Tetrachloroethene	50.00000	53.98600	ug/L	8	30	
Dibromochloromethane	50.00000	51.43420	ug/L	3	30	
1,2-Dibromoethane	50.00000	51.92900	ug/L	4	30	
Chlorobenzene	50.00000	50.35760	ug/L	1	30	
1,1,1,2-Tetrachloroethane	50.00000	51.81150	ug/L	4	30	
Ethylbenzene	50.00000	50.71850	ug/L	1	20	
m,p-Xylenes	100.0000	104.1283	ug/L	4	30	
o-Xylene	50.00000	52.70900	ug/L	5	30	
Styrene	50.00000	54.23970	ug/L	8	30	
Bromoform	50.00000	53.22470	ug/L	6	30	
Isopropylbenzene	50.00000	46.36450	ug/L	-7	30	
1,1,2,2-Tetrachloroethane	50.00000	47.39430	ug/L	-5	30	
1,2,3-Trichloropropane	50.00000	46.10110	ug/L	-8	30	
Propylbenzene	50.00000	49.64010	ug/L	-1	30	
Bromobenzene	50.00000	51.94770	ug/L	4	30	

!=warning +=high bias -=low bias m=manual integration v=ICV

11/23/04

pw 11/23/04

8260W ICAL

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 50PPB
Seqnum : 454471408015 Filename : fkm15 Injected : 22-NOV-2004 17:02
Calnum : 454471408001 Caldate : 22-NOV-2004 Caltype : WATER
Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2097 (1000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags	
1,3,5-Trimethylbenzene	50.00000	50.92430	ug/L	2	30		
2-Chlorotoluene	50.00000	49.94700	ug/L	0	30		
4-Chlorotoluene	50.00000	48.53630	ug/L	-3	30		
tert-Butylbenzene	50.00000	50.15240	ug/L	0	30	m	
1,2,4-Trimethylbenzene	50.00000	52.82860	ug/L	6	30		
sec-Butylbenzene	50.00000	51.81640	ug/L	4	30		
para-Isopropyl Toluene	50.00000	51.22980	ug/L	2	30		
1,3-Dichlorobenzene	50.00000	49.97200	ug/L	0	30		
1,4-Dichlorobenzene	50.00000	48.98070	ug/L	-2	30		
n-Butylbenzene	50.00000	56.04370	ug/L	12	30		
1,2-Dichlorobenzene	50.00000	50.15570	ug/L	0	30		
1,2-Dibromo-3-Chloropropane	50.00000	47.42970	ug/L	-5	30		
1,2,4-Trichlorobenzene	50.00000	50.66840	ug/L	1	30		
Hexachlorobutadiene	50.00000	54.34160	ug/L	9	30		
Naphthalene	50.00000	47.25720	ug/L	-5	30		
1,2,3-Trichlorobenzene	50.00000	48.67670	ug/L	-3	30		
Dibromofluoromethane	50.00000	49.34820	ug/L	-1	30		(NOT USED)
1,2-Dichloroethane-d4	50.00000	51.10670	ug/L	2	30		(NOT USED)
Toluene-d8	50.00000	51.06060	ug/L	2	30		(NOT USED)
Bromofluorobenzene	50.00000	47.81380	ug/L	-4	30		(NOT USED)

ISTD (ICAL=fkm08)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1129799	1203284	6.50	8.85	8.85	0.00
1,4-Difluorobenzene	1983729	2091239	5.42	10.32	10.32	0.00
Chlorobenzene-d5	1623278	1761480	8.51	15.33	15.33	0.00
1,4-Dichlorobenzene-d4	767897	848779	10.53	19.62	19.61	-0.01

!=warning +=high bias -=low bias m=manual integration v=ICV

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKM15.D
Report Date: 23-Nov-2004 08:57

Curtis & Tompkins, Ltd.

Data file : \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKM15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 22-NOV-2004 17:02 MS Autotune Date: 26-OCT-2004 07:37
Operator : BO Inst ID: MSVOA06.i
Smp Info : ICV,04WS1939B,5000X,04WS1940D,5000X
Misc Info : 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\I6M826W.m
Meth Date : 22-Nov-2004 16:28 target Quant Type: ISTD
Cal Date : 22-NOV-2004 15:53 Cal File: FKM13.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA06

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
1 Freon 12	85	3.240	3.234	(0.366)	12457	0.69394	0.6939
2 Chloromethane	50	3.565	3.579	(0.403)	46713	2.55669	2.5566
3 Vinyl Chloride	62	3.752	3.737	(0.424)	7438	0.84633	0.8463
4 Bromomethane	94	4.373	4.387	(0.494)	328165	34.6697	34.6696
5 Chloroethane	64	4.511	4.505	(0.510)	7337	1.01253	1.0125
6 Trichlorofluoromethane	101	4.954	4.948	(0.560)	9438	0.53017	0.5301
7 Acetone	43	5.506	5.500	(0.622)	471882	59.5847	59.5846
8 Freon 113	101	5.634	5.638	(0.637)	713108	60.5066	60.5065
9 1,1-Dichloroethene	96	5.811	5.815	(0.657)	660900	48.6859	48.6858
10 Methylene Chloride	84	6.422	6.426	(0.726)	937113	49.2166	49.2165
11 Carbon Disulfide	76	6.521	6.525	(0.737)	2029416	41.4620	41.4619
12 MTBE	73	6.777	6.781	(0.766)	2272618	56.6147	56.6147
13 trans-1,2-Dichloroethene	96	6.944	6.938	(0.785)	809192	51.0360	51.0359
14 Vinyl Acetate	43	7.486	7.480	(0.846)	2406917	53.1690	53.1689
15 1,1-Dichloroethane	63	7.506	7.510	(0.849)	1672062	51.5001	51.5000
16 2-Butanone	43	8.057	8.061	(0.911)	678555	53.9663	53.9663
17 cis-1,2-Dichloroethene	96	8.392	8.396	(0.949)	941731	52.6801	52.6801
18 2,2-Dichloropropane	77	8.392	8.396	(0.949)	1072940	56.0872	56.0871
19 Chloroform	83	8.639	8.643	(0.977)	1488216	50.5253	50.5252
20 Bromochloromethane	128	8.836	8.840	(0.999)	457043	50.0135	50.0135
* 21 Pentafluorobenzene	168	8.846	8.850	(1.000)	1203284	50.0000	
$ 22 Dibromofluoromethane	113	8.934	8.938	(1.010)	924074	49.3482	49.3481

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKM15.D
Report Date: 23-Nov-2004 08:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	23 1,1,1-Trichloroethane	97	9.309	9.313	(1.052)	1105874	53.9488	53.9488
	24 1,1-Dichloropropene	75	9.565	9.559	(0.927)	989470	52.7411	52.7410
$	25 1,2-Dichloroethane-d4	65	9.663	9.667	(0.936)	944572	51.1067	51.1067
	26 Carbon Tetrachloride	117	9.732	9.736	(0.943)	884042	55.1810	55.1810
	27 1,2-Dichloroethane	62	9.801	9.805	(0.949)	1179030	50.7572	50.7571
	28 Benzene	78	9.919	9.923	(0.961)	2986799	51.5182	51.5182
*	29 1,4-Difluorobenzene	114	10.323	10.327	(1.000)	2091239	50.0000	
	30 Trichloroethene	95	10.895	10.899	(1.055)	817750	51.2705	51.2705
$	31 Trifluorotoluene	146	10.983	10.987	(1.064)	9135	0.57258	0.5725(A)
	32 1,2-Dichloropropane	63	11.111	11.106	(1.076)	978469	51.5515	51.5514
	33 Bromodichloromethane	83	11.446	11.450	(1.109)	1187327	53.5633	53.5632
	34 Dibromomethane	93	11.496	11.490	(1.114)	790007	51.6753	51.6752
	35 2-Chloroethylvinylether	63	11.909	11.913	(1.154)	145955	13.4320	13.4320
	36 4-Methyl-2-Pentanone	43	12.008	12.012	(1.163)	1242770	51.7254	51.7253
	37 Tetramethyl THF	43	12.195	12.199	(1.181)	2365531	51.1782	51.1782(A)
	38 cis-1,3-Dichloropropene	75	12.313	12.317	(1.193)	1359284	52.7344	52.7343
$	39 Toluene-d8	98	12.806	12.800	(1.240)	2264679	51.0606	51.0606
	40 Toluene	92	12.934	12.938	(1.253)	1796919	52.2896	52.2896
	41 trans-1,3-Dichloropropene	75	13.111	13.115	(1.270)	1141912	50.5331	50.5330
	42 1,1,2-Trichloroethane	85	13.377	13.381	(1.296)	517970	52.5026	52.5026
	43 2-Hexanone	43	13.436	13.431	(0.877)	924707	54.0302	54.0302
	44 1,3-Dichloropropane	76	13.791	13.795	(0.900)	1221275	49.1070	49.1069
	45 Tetrachloroethene	166	14.077	14.081	(0.918)	662038	53.9860	53.9859
	46 Dibromochloromethane	129	14.244	14.248	(0.929)	869536	51.4342	51.4341
	47 1,2-Dibromoethane	107	14.599	14.603	(1.414)	930400	51.9290	51.9290
*	48 Chlorobenzene-d5	117	15.328	15.332	(1.000)	1761480	50.0000	
	49 Chlorobenzene	112	15.397	15.391	(1.004)	1875221	50.3576	50.3576
	50 1,1,1,2-Tetrachloroethane	131	15.456	15.460	(1.008)	652391	51.8115	51.8115
	51 Ethylbenzene	91	15.525	15.529	(1.013)	3138655	50.7185	50.7184
	52 m,p-Xylenes	106	15.673	15.677	(1.022)	2335359	104.128	104.1283
	53 o-Xylene	106	16.431	16.425	(1.072)	1192356	52.7090	52.7089
	54 Styrene	104	16.451	16.445	(1.073)	2093299	54.2397	54.2396
	55 Bromoform	173	16.934	16.938	(1.105)	665205	53.2247	53.2247
	56 Isopropylbenzene	105	17.082	17.076	(0.871)	2481325	46.3645	46.3645
	57 1,1,2,2-Tetrachloroethane	83	17.239	17.243	(0.879)	1131281	47.3943	47.3943
$	58 Bromofluorobenzene	95	17.446	17.450	(0.889)	1003100	47.8138	47.8138
	59 1,2,3-Trichloropropane	110	17.505	17.499	(0.893)	246906	46.1011	46.1011
	60 Propylbenzene	91	17.801	17.805	(0.908)	3335713	49.6401	49.6400
	61 Bromobenzene	156	17.801	17.805	(0.908)	862204	51.9477	51.9477
	62 2-Chlorotoluene	91	18.086	18.090	(0.922)	2372625	49.9470	49.9470
	63 1,3,5-Trimethylbenzene	105	18.096	18.100	(0.923)	2122809	50.9243	50.9242
	64 4-Chlorotoluene	91	18.175	18.169	(0.927)	2190884	48.5363	48.5363
	65 tert-Butylbenzene	119	18.746	18.741	(0.956)	1635450	50.1524	50.1524(M)
	66 1,2,4-Trimethylbenzene	105	18.806	18.810	(0.959)	2073955	52.8286	52.8286
	67 sec-Butylbenzene	105	19.141	19.145	(0.976)	2619923	51.8164	51.8164
	68 para-Isopropyl Toluene	119	19.387	19.391	(0.988)	1731581	51.2298	51.2297
	69 1,3-Dichlorobenzene	146	19.495	19.499	(0.994)	1267838	49.9720	49.9720
*	70 1,4-Dichlorobenzene-d4	152	19.613	19.617	(1.000)	848779	50.0000	
	71 1,4-Dichlorobenzene	146	19.673	19.677	(1.003)	1314585	48.9807	48.9806
	72 n-Butylbenzene	91	20.136	20.140	(1.027)	1721091	56.0437	56.0437
	73 1,2-Dichlorobenzene	146	20.342	20.337	(1.037)	1275088	50.1557	50.1556
	74 1,2-Dibromo-3-Chloropropane	75	21.702	21.696	(1.106)	167313	47.4297	47.4297
	75 1,2,4-Trichlorobenzene	180	23.298	23.302	(1.188)	554045	50.6684	50.6683
	76 Hexachlorobutadiene	225	23.593	23.588	(1.203)	251151	54.3416	54.3416

Data File: \\Gcmsserver\DD\chem\MSVOA06.i\112204.b\FKM15.D
Report Date: 23-Nov-2004 08:57

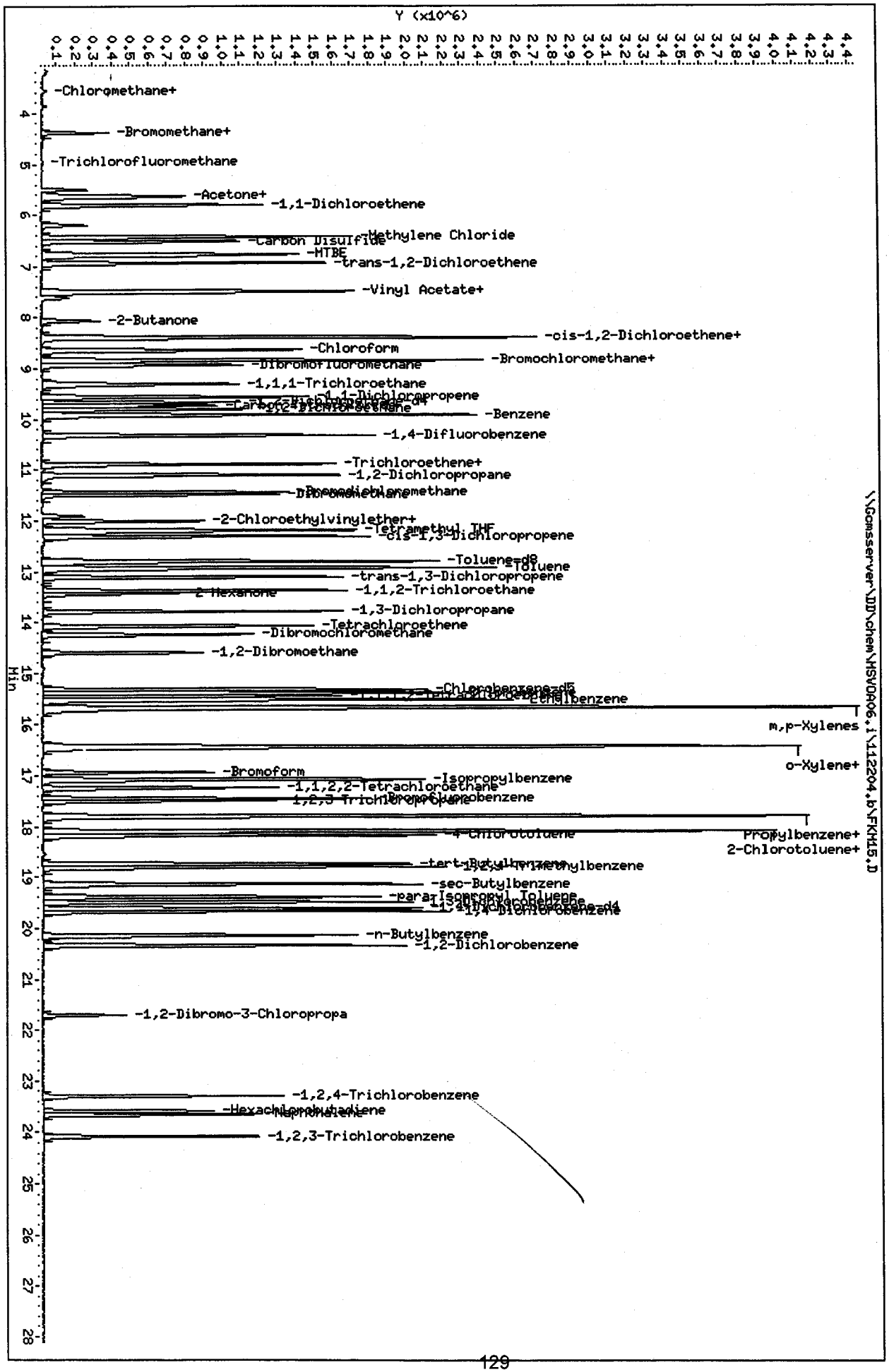
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
77 Naphthalene	128	23.662	23.657	(1.206)	1219010	47.2572	47.2571
78 1,2,3-Trichlorobenzene	180	24.086	24.080	(1.228)	529422	48.6767	48.6767

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA06.i\112204.b\FKH15.D
Date : 22-NOV-2004 17:02
Client ID: DYNA P&T
Sample Info: ICV,04WS1939B,5000X,04WS1940D,5000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA06.i
Operator: BO
Column diameter: 0.32



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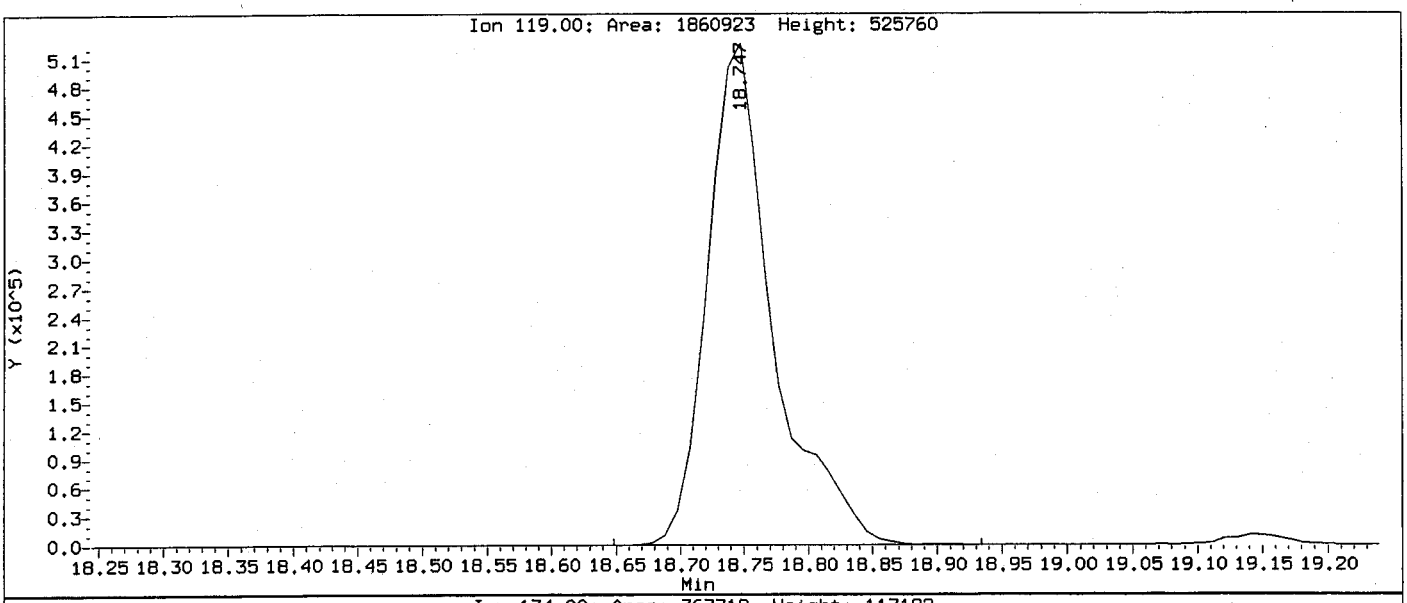
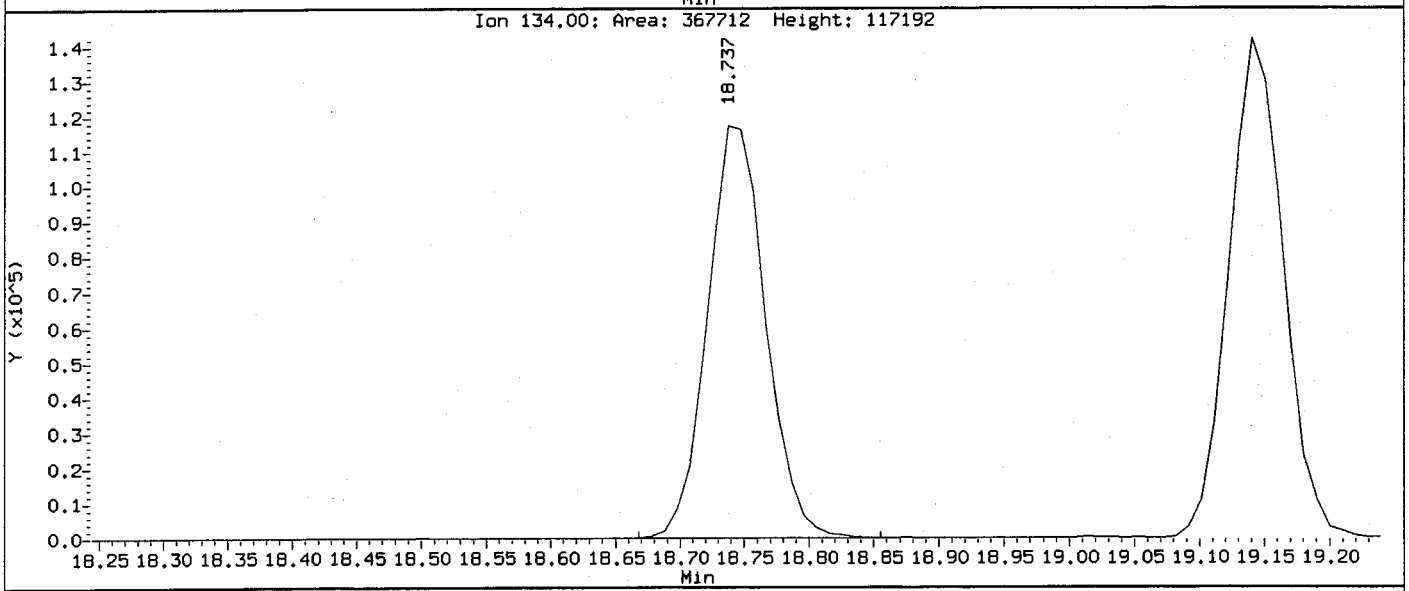
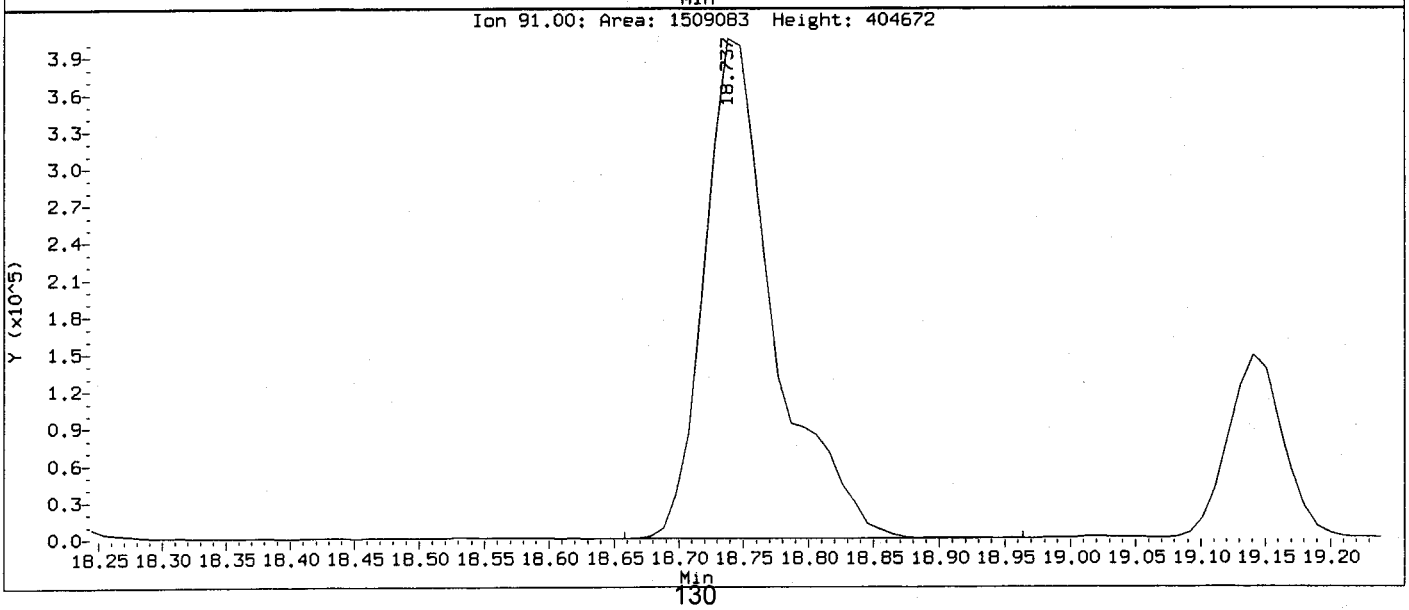
Injection Date: 22-NOV-2004 17:02
Instrument: MSVOA06.i
Client Sample ID: DYNA P&T

Compound: tert-Butylbenzene
CAS Number:







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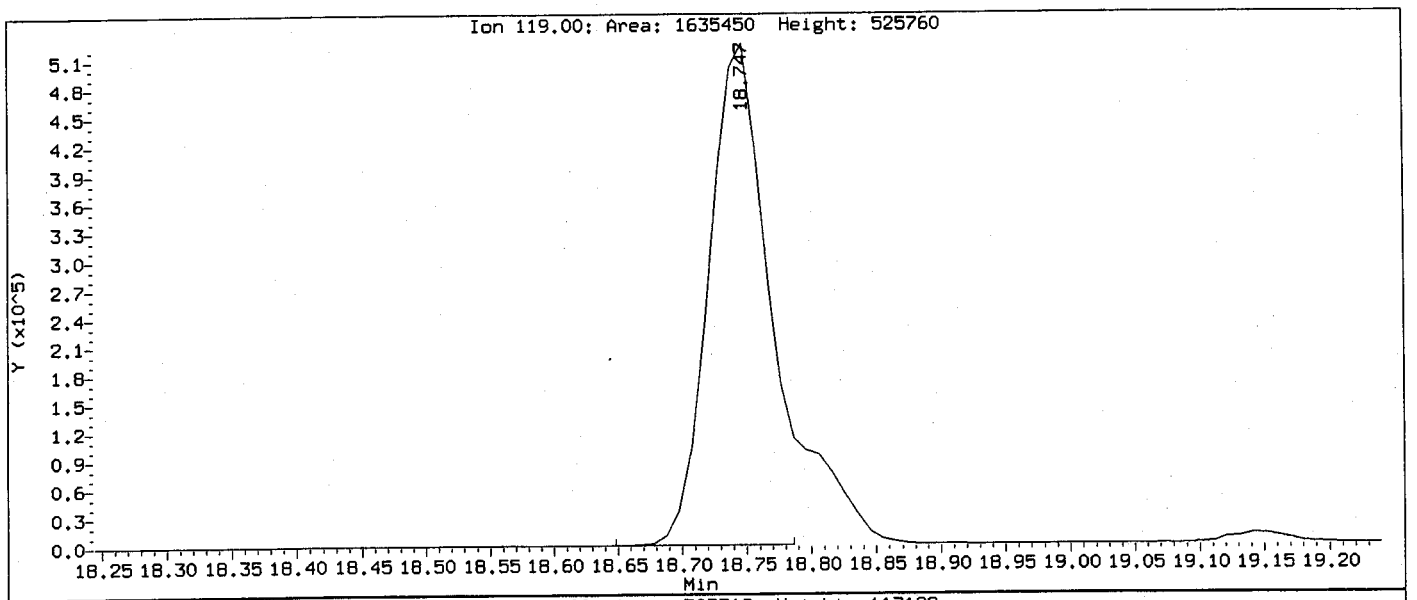
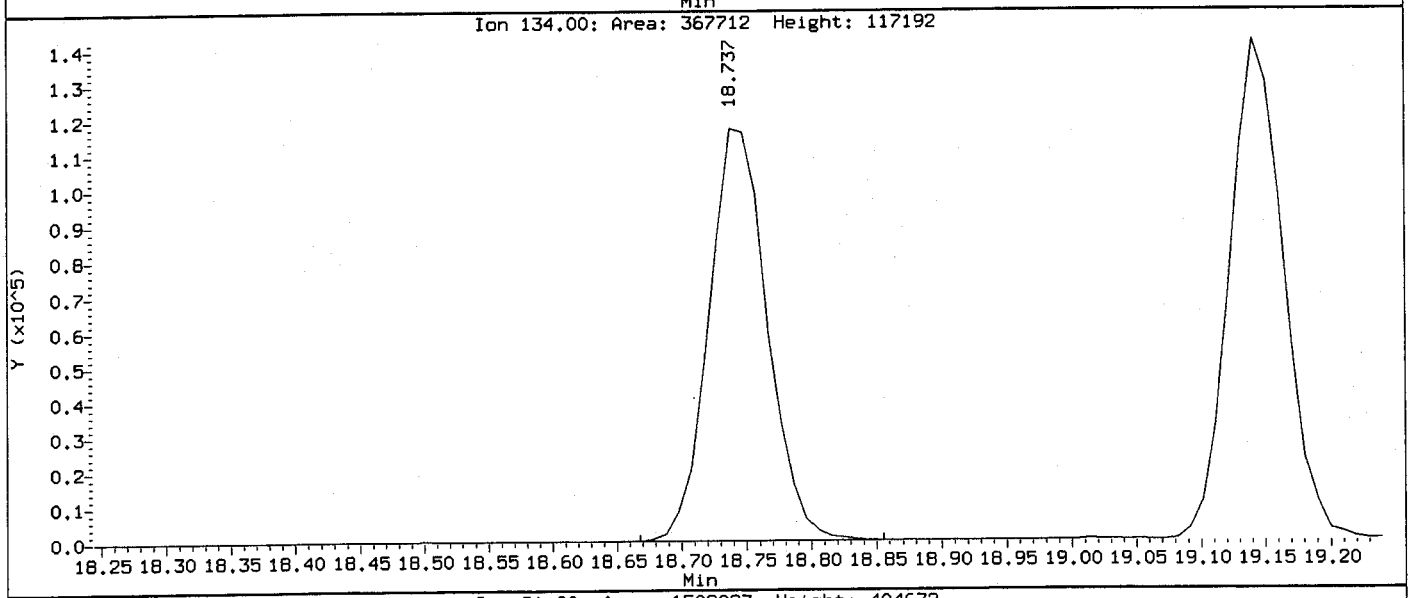
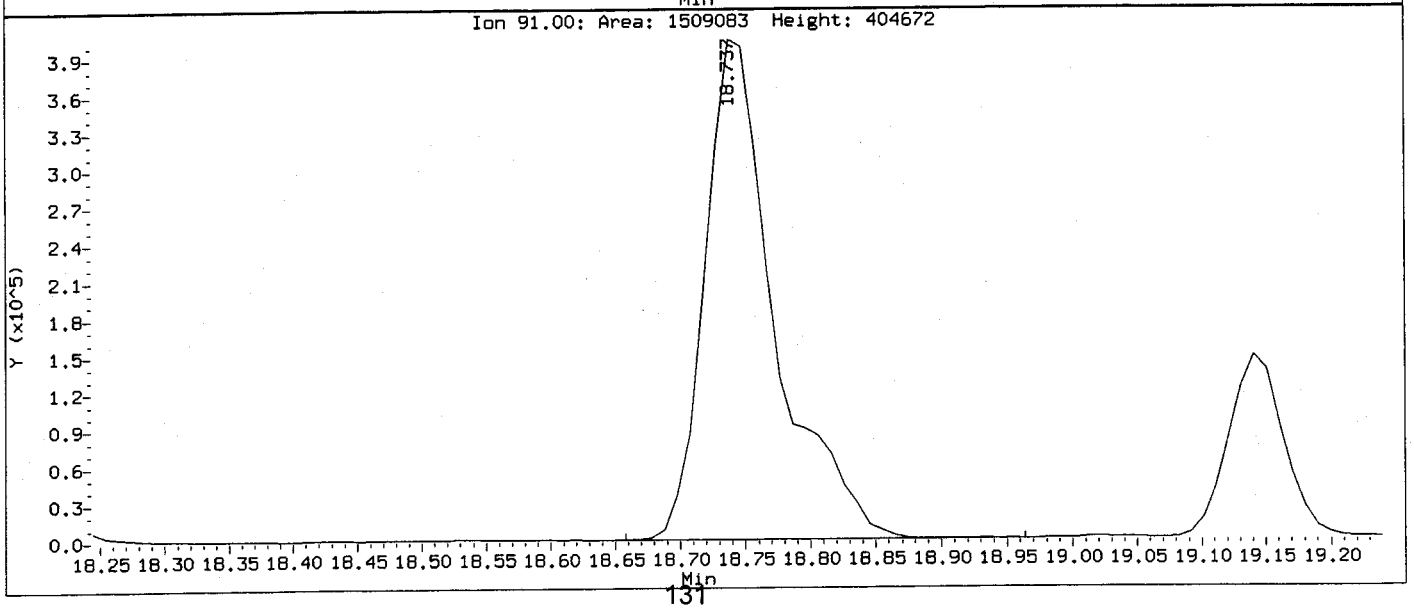
Injection Date: 22-NOV-2004 17:02
Instrument: MSVOA06.i
Client Sample ID: DYNA P&T

Compound: tert-Butylbenzene
CAS Number:







Signal Manual Integrations Report

Report Date: 11/23/2004 08:57

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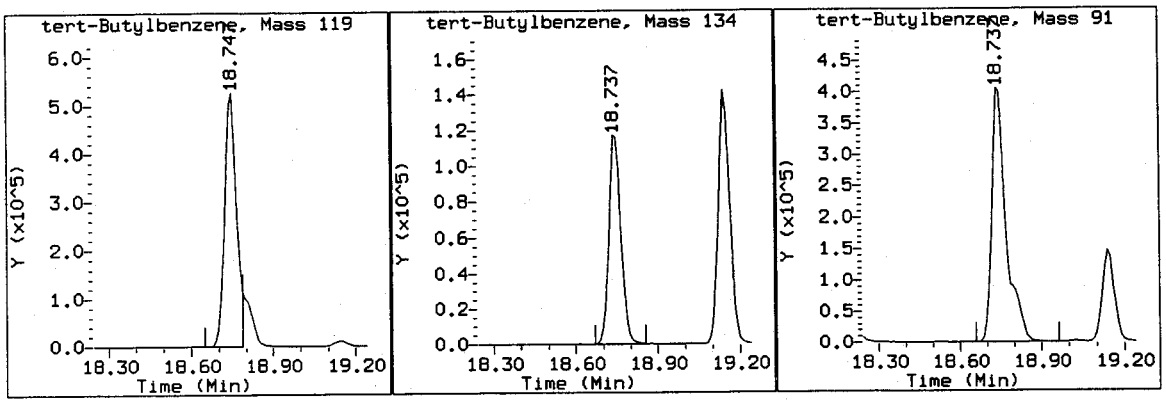
Injection Date: 22-NOV-2004 17:02
Lab ID: Client ID:DYNA P&T



pw 11 23 04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 454513150003 Filename : fl103 Injected : 21-DEC-2004 09:21
Calnum : 454471408001 Caldate : 22-NOV-2004 Caltype : WATER
Standards: 04SS440 (20000X), 04WS2167B (10000X), 04WS2204A (40000X), 04WS2405 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.7459	1.0216	25.00000	34.23960	ug/L	37	30	0.0500	c+ ***
Chloromethane	0.7592	0.6810	25.00000	22.42600	ug/L	-10	30	0.1000	
Vinyl Chloride	0.3652	0.3671	25.00000	25.13340	ug/L	1	20	0.0500	
Bromomethane	0.3933	0.3469	25.00000	22.05170	ug/L	-12	30	0.0500	
Chloroethane	0.3011	0.3074	25.00000	25.52380	ug/L	2	30	0.0500	
Trichlorofluoromethane	0.7397	0.9060	25.00000	30.62010	ug/L	**22**	30	0.0500	!c+
Acetone	0.3291	0.4365	25.00000	33.16200	ug/L	**33**	40	0.0500	!c+
Freon 113	0.4897	0.6328	25.00000	32.30240	ug/L	**29**	30	0.0500	!c+
1,1-Dichloroethene	0.5641	0.6530	25.00000	28.94040	ug/L	16	20	0.0500	
Methylene Chloride	0.7912	0.8358	25.00000	26.41070	ug/L	6	30	0.0500	
Carbon Disulfide	2.0339	2.2543	25.00000	27.70960	ug/L	11	30	0.0500	
MTBE	1.6680	1.6418	25.00000	24.60680	ug/L	-2	30	0.0500	
trans-1,2-Dichloroethene	0.6588	0.7417	25.00000	28.14430	ug/L	13	30	0.0500	
Vinyl Acetate	1.8811	1.8124	25.00000	24.08740	ug/L	-4	40	0.0500	
1,1-Dichloroethane	1.3491	1.4037	25.00000	26.01140	ug/L	4	30	0.1000	
2-Butanone	0.5225	0.5470	25.00000	26.17540	ug/L	5	40	0.0500	
2,2-Dichloropropane	0.7949	0.9085	25.00000	28.57280	ug/L	14	30	0.0500	
cis-1,2-Dichloroethene	0.7428	0.7801	25.00000	26.25520	ug/L	5	30	0.0500	
Chloroform	1.3397	1.3004	25.00000	25.58270	ug/L	2	20	0.0500	
Bromochloromethane	0.3797	0.3983	25.00000	26.22250	ug/L	5	30	0.0500	
1,1,1-Trichloroethane	0.8518	0.9564	25.00000	28.07120	ug/L	12	30	0.0500	
1,1-Dichloropropene	0.4486	0.4977	25.00000	27.73730	ug/L	11	30	0.0500	
Carbon Tetrachloride	0.3830	0.4601	25.00000	30.03070	ug/L	20	30	0.0500	
1,2-Dichloroethane	0.5554	0.5857	25.00000	26.36680	ug/L	5	30	0.0500	
Benzene	1.3862	1.4645	25.00000	26.41290	ug/L	6	30	0.0500	
Trichloroethene	0.3813	0.4029	25.00000	26.41460	ug/L	6	30	0.0500	
1,2-Dichloropropane	0.4538	0.4554	25.00000	25.08620	ug/L	0	20	0.0500	
Bromodichloromethane	0.5300	0.5657	25.00000	26.68580	ug/L	7	30	0.0500	
Dibromomethane	0.3655	0.3837	25.00000	26.24620	ug/L	5	30	0.0500	
2-Chloroethylvinylether	0.2598	**0.0269**	25.00000	2.587600	ug/L	-90	40	0.0500	c- crf
4-Methyl-2-Pentanone	0.5745	0.5321	25.00000	23.15800	ug/L	-7	40	0.0500	
Tetramethyl THF	1.1051	1.0364	25.00000	23.44550	ug/L	-6	30	0.0500	
cis-1,3-Dichloropropene	0.6163	0.6185	25.00000	25.09070	ug/L	0	30	0.0500	
Toluene	0.8216	0.8511	25.00000	25.89550	ug/L	4	20	0.0500	
trans-1,3-Dichloropropene	0.5403	0.5659	25.00000	26.18660	ug/L	5	30	0.0500	
1,1,2-Trichloroethane	0.2359	0.2399	25.00000	25.42700	ug/L	2	30	0.0500	
2-Hexanone	0.4858	0.4851	25.00000	24.96490	ug/L	0	40	0.0500	
1,3-Dichloropropane	0.7059	0.7197	25.00000	25.48660	ug/L	2	30	0.0500	
Tetrachloroethene	0.3481	0.3918	25.00000	28.13690	ug/L	13	30	0.0500	
Dibromochloromethane	0.4799	0.5071	25.00000	26.41670	ug/L	6	30	0.0500	
1,2-Dibromoethane	0.4284	0.4489	25.00000	26.20060	ug/L	5	30	0.0500	
Chlorobenzene	1.0570	1.1348	25.00000	26.84050	ug/L	7	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3574	0.3738	25.00000	26.14530	ug/L	5	30	0.0500	
Ethylbenzene	1.7566	1.8362	25.00000	26.13330	ug/L	5	20	0.0500	
m,p-Xylenes	0.6366	0.6806	50.00000	53.45610	ug/L	7	30	0.0500	
o-Xylene	0.6421	0.6802	25.00000	26.48380	ug/L	6	30	0.0500	

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration

po 12/21/04

a 12/22/04

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA06 Run Name : 25PPB IDF : 1.0
Seqnum : 454513150003 Filename : fl103 Injected : 21-DEC-2004 09:21
Calnum : 454471408001 Caldate : 22-NOV-2004 Caltype : WATER
Standards: 04SS440 (20000X), 04WS2167B (10000X), 04WS2204A (40000X), 04WS2405 (1000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	1.0955	1.1400	25.00000	26.01530	ug/L	4	30	0.0500	
Bromoform	0.3548	0.3886	25.00000	27.38200	ug/L	10	30	0.1000	
Isopropylbenzene	3.1526	3.4122	25.00000	27.05850	ug/L	8	30	0.0500	
1,1,2,2-Tetrachloroethane	1.4061	1.4801	25.00000	26.31590	ug/L	5	30	0.3000	
1,2,3-Trichloropropane	0.3155	0.3070	25.00000	24.32850	ug/L	-3	30	0.0500	
Propylbenzene	3.9585	4.1510	25.00000	26.21570	ug/L	5	30	0.0500	
Bromobenzene	0.9777	1.0746	25.00000	27.47600	ug/L	10	30	0.0500	
1,3,5-Trimethylbenzene	2.4556	2.5170	25.00000	25.62530	ug/L	3	30	0.0500	
2-Chlorotoluene	2.7983	2.9115	25.00000	26.01090	ug/L	4	30	0.0500	
4-Chlorotoluene	2.6591	2.8089	25.00000	26.40860	ug/L	6	30	0.0500	
tert-Butylbenzene	1.9210	1.8201	25.00000	23.68780	ug/L	-5	30	0.0500	m
1,2,4-Trimethylbenzene	2.3126	2.3346	25.00000	25.23710	ug/L	1	30	0.0500	
sec-Butylbenzene	2.9785	2.7771	25.00000	23.31000	ug/L	-7	30	0.0500	
para-Isopropyl Toluene	1.9911	1.8662	25.00000	23.43160	ug/L	-6	30	0.0500	
1,3-Dichlorobenzene	1.4946	1.6067	25.00000	26.87560	ug/L	8	30	0.0500	
1,4-Dichlorobenzene	1.5810	1.6389	25.00000	25.91450	ug/L	4	30	0.0500	
n-Butylbenzene	1.8091	1.5437	25.00000	21.33330	ug/L	-15	30	0.0500	
1,2-Dichlorobenzene	1.4976	1.5465	25.00000	25.81610	ug/L	3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2078	0.2069	25.00000	24.88770	ug/L	0	30	0.0500	
1,2,4-Trichlorobenzene	0.5570	0.5675	25.00000	24.32550	ug/L	-3	30	0.0500	
Hexachlorobutadiene	0.2426	0.2242	25.00000	22.94800	ug/L	-8	30	0.0500	
Naphthalene	1.3595	1.5080	25.00000	25.61880	ug/L	2	30	0.0500	
1,2,3-Trichlorobenzene	0.5248	0.5590	25.00000	23.89020	ug/L	-4	30	0.0500	
Dibromofluoromethane	0.7781	0.8048	50.00000	51.71460	ug/L	3	30	0.0500	
1,2-Dichloroethane-d4	0.4419	0.4523	50.00000	51.18110	ug/L	2	30	0.0500	
Trifluorotoluene	0.3814	0.4471	25.00000	29.30510	ug/L	17	30	0.0500	
Toluene-d8	1.0604	1.0634	50.00000	50.13890	ug/L	0	30	0.0500	
Bromofluorobenzene	1.2359	1.1804	50.00000	47.75710	ug/L	-4	30	0.0500	

ISTD (ICAL=fkm08)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1129799	1191656	5.48	8.85	8.85	0.00
1,4-Difluorobenzene	1983729	2100323	5.88	10.32	10.32	0.00
Chlorobenzene-d5	1623278	1732220	6.71	15.33	15.33	0.00
1,4-Dichlorobenzene-d4	767897	798429	3.98	19.62	19.62	0.00

!=warning +=high bias -=low bias c=CCV crf=CCV min RF failure m=manual integration

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name : 25PPB IDF : 1.0
Seqnum : 494514715010 Filename : jlm10 Injected : 22-DEC-2004 17:01
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04SS440 (20000X), 04WS2168 (10000X), 04WS2343D (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.2915	0.3203	25.00000	27.47440	ug/L	10	30	0.0500	
Chloromethane	0.4520	0.4566	25.00000	25.25370	ug/L	1	30	0.1000	
Vinyl Chloride	0.3910	0.4190	25.00000	26.78730	ug/L	7	20	0.0500	
Bromomethane	0.2260	0.2074	25.00000	22.29740	ug/L	-11	30	0.0500	
Chloroethane	0.2292	0.2327	25.00000	25.38190	ug/L	2	30	0.0500	
Trichlorofluoromethane	0.3310	0.3636	25.00000	27.46080	ug/L	10	30	0.0500	
Acetone	0.0969	0.1063	25.00000	27.40940	ug/L	10	40	0.0500	
Freon 113	0.1995	0.2292	25.00000	28.72040	ug/L	15	30	0.0500	
1,1-Dichloroethene	0.2055	0.2206	25.00000	26.83830	ug/L	7	20	0.0500	
Methylene Chloride	0.2838	0.2911	25.00000	25.65000	ug/L	3	30	0.0500	
Carbon Disulfide	0.8318	0.8814	25.00000	26.49200	ug/L	6	30	0.0500	
MTBE	0.7082	0.7046	25.00000	24.87240	ug/L	-1	30	0.0500	
trans-1,2-Dichloroethene	0.2541	0.2637	25.00000	25.94460	ug/L	4	30	0.0500	
Vinyl Acetate	0.7556	0.7659	25.00000	25.34100	ug/L	1	40	0.0500	
1,1-Dichloroethane	0.4694	0.4763	25.00000	25.36300	ug/L	1	30	0.1000	
2-Butanone	0.1561	0.1601	25.00000	25.65390	ug/L	3	40	0.0500	
2,2-Dichloropropane	0.2891	0.3261	25.00000	28.19770	ug/L	13	30	0.0500	
cis-1,2-Dichloroethene	0.2800	0.2784	25.00000	24.85910	ug/L	-1	30	0.0500	
Chloroform	0.4334	0.4283	25.00000	24.70110	ug/L	-1	20	0.0500	
Bromochloromethane	0.1413	0.1478	25.00000	26.15160	ug/L	5	30	0.0500	
1,1,1-Trichloroethane	0.3020	0.3176	25.00000	26.29220	ug/L	5	30	0.0500	
1,1-Dichloropropene	0.2146	0.2277	25.00000	26.53060	ug/L	6	30	0.0500	
Carbon Tetrachloride	0.1564	0.1731	25.00000	27.65890	ug/L	11	30	0.0500	
1,2-Dichloroethane	0.2142	0.2194	25.00000	25.60100	ug/L	2	30	0.0500	
Benzene	0.6534	0.6735	25.00000	25.76770	ug/L	3	30	0.0500	
Trichloroethene	0.1637	0.1689	25.00000	25.80580	ug/L	3	30	0.0500	
1,2-Dichloropropane	0.2005	0.2059	25.00000	25.67950	ug/L	3	20	0.0500	
Bromodichloromethane	0.2087	0.2163	25.00000	25.91240	ug/L	4	30	0.0500	
Dibromomethane	0.1336	0.1348	25.00000	25.22130	ug/L	1	30	0.0500	
4-Methyl-2-Pentanone	0.2491	0.2385	25.00000	23.93720	ug/L	-4	40	0.0500	
Tetramethyl THF	0.3897	0.3901	25.00000	25.02530	ug/L	0	30	0.0500	
cis-1,3-Dichloropropene	0.2793	0.2906	25.00000	26.01400	ug/L	4	30	0.0500	
Toluene	0.3704	0.3731	25.00000	25.18060	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.2500	0.2576	25.00000	25.75900	ug/L	3	30	0.0500	
1,1,2-Trichloroethane	0.0900	0.0930	25.00000	25.83650	ug/L	3	30	0.0500	
2-Hexanone	0.1775	0.1846	25.00000	25.99120	ug/L	4	40	0.0500	
1,3-Dichloropropane	0.3284	0.3408	25.00000	25.93900	ug/L	4	30	0.0500	
Tetrachloroethene	0.1815	0.1931	25.00000	26.59170	ug/L	6	30	0.0500	
Dibromochloromethane	0.2049	0.2135	25.00000	26.05040	ug/L	4	30	0.0500	
1,2-Dibromoethane	0.1787	0.1812	25.00000	25.33940	ug/L	1	30	0.0500	
Chlorobenzene	0.5082	0.5144	25.00000	25.30440	ug/L	1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.1703	0.1762	25.00000	25.86260	ug/L	3	30	0.0500	
Ethylbenzene	0.8374	0.8695	25.00000	25.95670	ug/L	4	20	0.0500	
m,p-Xylenes	0.2942	0.3179	50.00000	54.02900	ug/L	8	30	0.0500	
o-Xylene	0.2835	0.3020	25.00000	26.63200	ug/L	7	30	0.0500	
Styrene	0.4748	0.5236	25.00000	27.57020	ug/L	10	30	0.0500	

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CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name : 25PPB IDF : 1.0
Seqnum : 494514715010 Filename : jlm10 Injected : 22-DEC-2004 17:01
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04SS440 (20000X), 04WS2168 (10000X), 04WS2343D (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.1506	0.1483	25.00000	24.61840	ug/L	-2	30	0.1000	
Isopropylbenzene	1.5746	1.6709	25.00000	26.52940	ug/L	6	30	0.0500	
1,1,2,2-Tetrachloroethane	0.6338	0.6011	25.00000	23.70770	ug/L	-5	30	0.3000	
1,2,3-Trichloropropane	0.1479	0.1419	25.00000	23.97290	ug/L	-4	30	0.0500	
Propylbenzene	1.8785	2.0109	25.00000	26.76200	ug/L	7	30	0.0500	
Bromobenzene	0.4608	0.4482	25.00000	24.31680	ug/L	-3	30	0.0500	
1,3,5-Trimethylbenzene	1.0696	1.1309	25.00000	26.43250	ug/L	6	30	0.0500	
2-Chlorotoluene	1.2862	1.3156	25.00000	25.57260	ug/L	2	30	0.0500	
4-Chlorotoluene	1.1641	1.2010	25.00000	25.79180	ug/L	3	30	0.0500	
tert-Butylbenzene	0.9576	1.0374	25.00000	27.08270	ug/L	8	30	0.0500	
1,2,4-Trimethylbenzene	1.0000	1.0473	25.00000	26.18380	ug/L	5	30	0.0500	
sec-Butylbenzene	1.4431	1.6253	25.00000	28.15690	ug/L	13	30	0.0500	
para-Isopropyl Toluene	1.0182	1.1355	25.00000	27.88110	ug/L	12	30	0.0500	
1,3-Dichlorobenzene	0.7235	0.7367	25.00000	25.45520	ug/L	2	30	0.0500	
1,4-Dichlorobenzene	0.7569	0.7722	25.00000	25.50750	ug/L	2	30	0.0500	
n-Butylbenzene	0.9640	1.0885	25.00000	28.22790	ug/L	13	30	0.0500	
1,2-Dichlorobenzene	0.7056	0.7092	25.00000	25.12860	ug/L	1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.0955	0.0908	25.00000	23.75200	ug/L	-5	30	0.0500	
1,2,4-Trichlorobenzene	0.2668	0.2721	25.00000	25.49630	ug/L	2	30	0.0500	
Hexachlorobutadiene	0.1571	0.1727	25.00000	27.48980	ug/L	10	30	0.0500	
Naphthalene	0.5933	0.5834	25.00000	24.58490	ug/L	-2	30	0.0500	
1,2,3-Trichlorobenzene	0.2368	0.2384	25.00000	25.17050	ug/L	1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0220	0.0233	250.0000	265.6149	ug/L	6	30	0.0050	
Isopropyl Ether (DIPE)	1.0228	1.0446	25.00000	25.53470	ug/L	2	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	0.8247	0.8405	25.00000	25.47960	ug/L	2	30	0.0500	
Methyl tert-Amyl Ether (TAME)	0.4884	0.4989	25.00000	25.53490	ug/L	2	30	0.0500	
Ethanol	0.0037	0.0040	2500.000	2698.388	ug/L	8	30	5.0E-4	
Isopropanol	0.0173	0.0171	250.0000	246.3280	ug/L	-1	30	0.0050	
Tetrahydrofuran	0.0900	0.0883	250.0000	245.2955	ug/L	-2	30	0.0050	
Dibromofluoromethane	0.5825	0.5779	50.00000	49.60440	ug/L	-1	30	0.0500	
1,2-Dichloroethane-d4	0.3668	0.3660	50.00000	49.88770	ug/L	0	30	0.0500	
Trifluorotoluene	0.2178	0.2398	25.00000	27.52350	ug/L	10	30	0.0500	
Toluene-d8	0.9990	0.9959	50.00000	49.84440	ug/L	0	30	0.0500	
Bromofluorobenzene	1.1816	1.1547	50.00000	48.86290	ug/L	-2	30	0.0500	

ISTD (ICAL=jkn16)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1560741	1766202	13.16	10.91	10.92	0.01
1,4-Difluorobenzene	2406782	2692679	11.88	12.09	12.10	0.01
Chlorobenzene-d5	1964862	2183422	11.12	16.05	16.05	0.00
1,4-Dichlorobenzene-d4	876337	990658	13.05	18.75	18.75	0.00

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-DEC-2004
Sequence: 454513150 (f11)
Instrument ID: MSVOA06

ICAL Filename: fkm08
Date Analyzed: 22-NOV-2004
Time Analyzed: 12:54

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1129799	8.85	1983729	10.32	1623278	15.33	767897	19.62
LOWER LIMIT	564900	8.35	991865	9.82	811639	14.83	383949	19.12
UPPER LIMIT	2259598	9.35	3967458	10.82	3246556	15.83	1535794	20.12

TYPE	SAMPLE	#								
CCV/BS	QC277135	003	1191656	8.85	2100323	10.32	1732220	15.33	798429	19.62
BSD	QC277136	004	1187542	8.84	2099887	10.32	1712950	15.32	756927	19.61
BLANK	QC277137	006	1089104	8.83	1981955	10.31	1567587	15.32	570517	19.61
SAMPLE	176543-015	007	1119597	8.83	2003079	10.31	1630184	15.31	570945	19.61
SAMPLE	176662-011	008	1134565	8.84	1988426	10.31	1558102	15.32	422279	19.61
SAMPLE	176662-001	009	1060740	8.84	1915690	10.31	1602729	15.32	547894	19.61
SAMPLE	176662-002	010	1084615	8.84	1963749	10.31	1597422	15.32	553315	19.61
SAMPLE	176662-003	011	1044643	8.84	1929933	10.32	1616643	15.32	543093	19.61
SAMPLE	176662-004	012	1048161	8.84	1972566	10.32	1608452	15.32	539869	19.61
SAMPLE	176740-008	013	1039886	8.84	1960859	10.31	1624471	15.33	712021	19.61
SAMPLE	176740-009	014	1189161	8.84	2111412	10.31	1695945	15.32	618257	19.61
SAMPLE	176740-011	015	1107607	8.84	2056000	10.32	1688571	15.32	660275	19.61
SAMPLE	176740-014	016	1168706	8.84	2105636	10.32	1704164	15.32	627692	19.62
SAMPLE	176740-015	017	1103071	8.84	1986072	10.31	1578883	15.32	586009	19.61
SAMPLE	176740-016	018	1103677	8.84	2029708	10.31	1713382	15.32	630105	19.61
SAMPLE	176740-003	019	1141217	8.84	2109954	10.31	1701037	15.33	751289	19.61
SAMPLE	176740-012	020	1222138	8.84	2219575	10.31	1833434	15.32	758706	19.60
SAMPLE	176740-013	021	1257200	8.83	2191341	10.31	1766514	15.31	718087	19.61
SAMPLE	176740-010	022	1259533	8.84	2234845	10.32	1819157	15.32	754049	19.61
SAMPLE	176740-005	023	1312119	8.84	2287601	10.31	1842693	15.31	804386	19.61

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-DEC-2004
Sequence: 494514715 (jlm)
Instrument ID: MSVOA10

ICAL Filename: jkn16
Date Analyzed: 23-NOV-2004
Time Analyzed: 23:04

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	1560741	10.91	2406782	12.09	1964862	16.05	876337	18.75
LOWER LIMIT	780371	10.41	1203391	11.59	982431	15.55	438169	18.25
UPPER LIMIT	3121482	11.41	4813564	12.59	3929724	16.55	1752674	19.25

TYPE	SAMPLE	#								
CCV	30PPB	003	1572109	10.91	2447779	12.08	1975154	16.05	790424	18.75
LCS	QC277368	004	1638052	10.92	2536729	12.09	2031102	16.05	828600	18.75
LCS	QC277368	006	1581108	10.92	2446270	12.09	1981104	16.06	853118	18.76
CCV	25PPB	010	1766202	10.92	2692679	12.10	2183422	16.05	990658	18.75
LCS	QC277368	011	1760386	10.92	2662284	12.10	2174672	16.06	1000891	18.76
BLANK	QC277369	013	1706889	10.91	2637639	12.09	2135751	16.05	988061	18.75
SAMPLE	176662-011	014	1711198	10.91	2637969	12.09	2160397	16.05	976023	18.76
SAMPLE	176705-017	015	1673496	10.91	2584866	12.09	2110705	16.05	933977	18.75
SAMPLE	176705-011	016	1656204	10.91	2556611	12.10	2106420	16.05	945919	18.75
SAMPLE	176705-013	017	1620027	10.92	2487103	12.09	2040320	16.05	923483	18.75
SAMPLE	176683-002	018	1586930	10.92	2458438	12.09	1997405	16.05	875088	18.75
SAMPLE	176683-003	019	1573615	10.92	2424384	12.09	1968159	16.05	876061	18.75
SAMPLE	176683-004	020	1612362	10.92	2462295	12.09	2039365	16.05	864863	18.75
MSS	176683-005	021	1544272	10.91	2396693	12.09	1950458	16.05	849582	18.75
SAMPLE	176707-024	022	1565191	10.92	2409845	12.09	1976578	16.05	865249	18.75
SAMPLE	176737-031	023	1504776	10.91	2334505	12.09	1929411	16.05	844181	18.75
SAMPLE	176681-008	024	1582851	10.91	2425900	12.10	1989565	16.05	873992	18.75
SAMPLE	176681-009	025	1564527	10.91	2391158	12.10	1973187	16.05	852874	18.75
SAMPLE	176681-015	026	1554161	10.93	2372523	12.10	1970512	16.07	856306	18.77
SAMPLE	176681-033	027	1560104	10.91	2419335	12.09	1991503	16.05	869816	18.75
MS	QC277424	028	1532428	10.92	2348470	12.09	1937253	16.05	866337	18.76
MSD	QC277425	029	1562240	10.92	2376001	12.09	1953501	16.05	873938	18.76

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SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 454513150 Instrument: MSVOA06 HP GCMS VOA 06 Begun: 21-DEC-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	fl101	X	IB			21-DEC-2004 08:30	1.0						1	
002	fl102	TUN	BFB			21-DEC-2004 09:02	1.0						2	
003	fl103	CCV/BS	QC277135	97705	Water	21-DEC-2004 09:21	1.0	2	1	5000			3 4 5 1	
004	fl104	BSD	QC277136	97705	Water	21-DEC-2004 09:56	1.0	2	1	5000			1 3 4 5	
005	fl105	X	IB			21-DEC-2004 10:30	1.0						1	
006	fl106	BLANK	QC277137	97705	Water	21-DEC-2004 11:05	1.0	1	1	5000			1	
007	fl107	SAMPLE	176543-015	97705	Water	21-DEC-2004 11:39	2.0			5000	C	L2	1 TCE only	
008	fl108	SAMPLE	176662-011	97705	Water	21-DEC-2004 12:14	1.0		1	5000	A	↓	1 RR 1x, didn't sample 5mL	
009	fl109	SAMPLE	176662-001	97705	Water	21-DEC-2004 12:48	1.0		1	5000	B	L2	1	
010	fl110	SAMPLE	176662-002	97705	Water	21-DEC-2004 13:23	1.0		1	5000			1	
011	fl111	SAMPLE	176662-003	97705	Water	21-DEC-2004 13:58	1.0		1	5000			1	
012	fl112	SAMPLE	176662-004	97705	Water	21-DEC-2004 14:32	1.0		1	5000		7	1 RR 12/22/04	
013	fl113	SAMPLE	176740-008	97705	Water	21-DEC-2004 15:06	1.0			5000		8	1	
014	fl114	SAMPLE	176740-009	97705	Water	21-DEC-2004 15:41	1.0			5000			1	
015	fl115	SAMPLE	176740-011	97705	Water	21-DEC-2004 16:15	1.0			5000			1	
016	fl116	SAMPLE	176740-014	97705	Water	21-DEC-2004 16:49	1.0			5000			1	
017	fl117	SAMPLE	176740-015	97705	Water	21-DEC-2004 17:24	1.0			5000		↓	1	
018	fl118	SAMPLE	176740-016	97705	Water	21-DEC-2004 17:58	1.0			5000		7	1	
019	fl119	SAMPLE	176740-003	97705	Water	21-DEC-2004 18:33	1.429			5000		8	1 RR 1x, o.d.	
020	fl120	SAMPLE	176740-012	97705	Water	21-DEC-2004 19:07	1.429			5000			1	
021	fl121	SAMPLE	176740-013	97705	Water	21-DEC-2004 19:42	1.429			5000			1	
022	fl122	SAMPLE	176740-010	97705	Water	21-DEC-2004 20:16	6.25			5000			1 RR 1x, o.d.	
023	fl123	SAMPLE	176740-005	97705	Water	21-DEC-2004 20:51	14.29			5000		↓	1	
024	fl124	X	IB			21-DEC-2004 21:25	1.0						1	
025	fl125	X	IB			21-DEC-2004 22:00	1.0						1	
026	fl126	X	IB			21-DEC-2004 22:35	1.0						1	
027	fl127	X	50PPB			21-DEC-2004 23:09	1.0						1	
028	fl128	X	50PPB			21-DEC-2004 23:43	1.0						1	
029	fl129	X	IB			22-DEC-2004 00:18	1.0						1	
030	fl130	X	IB			22-DEC-2004 00:53	1.0						1	
031	fl131	X	IB			22-DEC-2004 01:28	1.0						1	

Stds used: 1=04WS2405 2=04WS1238 3=04SS440 4=04WS2167B 5=04WS2204A

Analyst: RLD Date: 12/22/04

* ICAL - OK
* ICV - 2CLEVE ↓, USACE - Fr113↑
* CCV - Fr12↑, 2CLEVE↓, Fails min RF, USACE - Cl3FMe↑, Ace↑, Fr113↑.

Page 1 of 1

12/22/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 494514715 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 22-DEC-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
002	jlm02	TUN	BFB			22-DEC-2004 10:35	1.0						1	
003	jlm03	CCV	30PPB			22-DEC-2004 10:52	1.0	2		5000			2 3 4 5	
004	jlm04	~~LCS~~	QC277368	97760	Water	22-DEC-2004 11:40	1.0	3	2	5000			6 7 8 5	not used
005	jlm05	X	IB			22-DEC-2004 12:14	1.0						5	
006	jlm06	~~LCS~~	QC277368	97760	Water	22-DEC-2004 12:48	1.0	3	4	5000			6 7 8 5 spk	
007	jlm07	X	IB			22-DEC-2004 13:22	1.0						5	changed trap
008	jlm08	X	IB			22-DEC-2004 16:11	1.0						5	
009	jlm09	TUN	BFB			22-DEC-2004 16:44	1.0						1	
010	jlm10	CCV	25PPB			22-DEC-2004 17:01	1.0			5000			2 9 5	
011	jlm11	LCS	QC277368	97760	Water	22-DEC-2004 17:35	1.0	1		5000			6 7 8 5	
012	jlm12	X	IB			22-DEC-2004 18:08	1.0						5	
013	jlm13	BLANK	QC277369	97760	Water	22-DEC-2004 18:42	1.0		1	5000			5	
014	jlm14	SAMPLE	176662-011	97760	Water	22-DEC-2004 19:16	1.0			5000	B	4	5	
015	jlm15	SAMPLE	176705-017	97760	Water	22-DEC-2004 19:50	1.0			5000	A		5	
016	jlm16	SAMPLE	176705-011	97760	Water	22-DEC-2004 20:23	1.0			5000	D		5	
017	jlm17	SAMPLE	176705-013	97760	Water	22-DEC-2004 20:57	1.0			5000	C		5	
018	jlm18	SAMPLE	176683-002	97760	Water	22-DEC-2004 21:31	1.0			5000	B		5	
019	jlm19	SAMPLE	176683-003	97760	Water	22-DEC-2004 22:05	1.0			5000			5	
020	jlm20	SAMPLE	176683-004	97760	Water	22-DEC-2004 22:38	1.0			5000			5	
021	jlm21	MSS	176683-005	97760	Water	22-DEC-2004 23:12	1.0		1	5000			5	
022	jlm22	SAMPLE	176707-024	97760	Water	22-DEC-2004 23:46	1.0			5000	AB	4	5	
023	jlm23	SAMPLE	176737-031	97760	Water	23-DEC-2004 00:19	5.0			5000	C	<2	5	
024	jlm24	SAMPLE	176681-008	97760	Water	23-DEC-2004 00:53	2.500			5000			5	
025	jlm25	SAMPLE	176681-009	97760	Water	23-DEC-2004 01:27	200.0	2		5000			5 PR 333X	2:BZME=126.378
026	jlm26	SAMPLE	176681-015	97760	Water	23-DEC-2004 02:00	83.33	3		5000			5 PR 333X	3:ACE=260.358
027	jlm27	SAMPLE	176681-033	97760	Water	23-DEC-2004 02:34	2.500			5000			5 PR 2.5X	
028	jlm28	MS	QC277424	97760	Water	23-DEC-2004 03:08	1.0	1	2	5000	COC		6 7 8 5	PPO good/cont/MC.
029	jlm29	MSD	QC277425	97760	Water	23-DEC-2004 03:42	1.0	1	2	5000			6 7 8 5	
030	jlm30	X	IB			23-DEC-2004 04:15	1.0						5	
031	jlm31	X	IB			23-DEC-2004 04:49	1.0						5	

ICAL-GOOD, ICV-Velcrt + A.C.C. low - FIX, CCMet CCV- GOOD

Stds used: 1=04WS1238 2=04SS440 3=04WS2168C 4=04WS2204B 5=04WS2343D 6=04WS2304 7=04WS2305 8=04WS2367 9=04WS2168

Flags used: spk=5% spike rule

Analyst: [signature] Date: 12/23/04

Page 1 of 2

[signature] 12/23/04

140

8260W ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 22-NOV-2004

Sequence: 454471408 Instrument: MSVOA06 HP GCMS VOA 06
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	fkm01	X	IB			22-NOV-2004 08:48	1.0					1	
002	fkm02	TUN	BFB			22-NOV-2004 09:29	1.0					2	
003	fkm03	X	CALIB IB			22-NOV-2004 09:48	1.0					1	
004	fkm04	ICAL	0.5/1PPB			22-NOV-2004 10:36	1.0					3 4 5 1	
005	fkm05	ICAL	5PPB			22-NOV-2004 11:11	1.0					3 4 5 1	
006	fkm06	ICAL	10PPB			22-NOV-2004 11:45	1.0					3 4 5 1	
007	fkm07	ICAL	20PPB			22-NOV-2004 12:20	1.0					3 4 5 1	
008	fkm08	ICAL	50PPB			22-NOV-2004 12:54	1.0					3 4 5 1	
010	fkm10	ICAL	100PPB			22-NOV-2004 14:07	1.0					3 4 5 1	
013	fkm13	ICAL	75PPB			22-NOV-2004 15:53	1.0					3 4 5 1	
014	fkm14	ICV	50PPB			22-NOV-2004 16:27	1.0		5000			6 1	
015	fkm15	ICV	50PPB			22-NOV-2004 17:02	1.0	1	5000			7 8 1	
016	fkm16	X	IB			22-NOV-2004 17:36	1.0					1	
017	fkm17	X	IB			22-NOV-2004 18:10	1.0					1	
018	fkm18	X	IB			22-NOV-2004 18:45	1.0					1	

(*) FKM09 is a 75ppb ICAL point that is not used
FKM11,12 are ICV runs that are not used

* ICAL - OK
- 124TCB, HxClbdn, 123TCB to 75ppb
- 3rd ion missing for 1112PCE @ 0.5ppb
* ICV - 2CCEVE1, 1,1,2PCE - Fr 113 †

Stds used: 1=04WS2097 2=04WS1238 3=04SS393 4=04WS2167A 5=04WS2204A 6=04WS2093C 7=04WS1939B 8=04WS1940D

Analyst: [illegible] Date: 11/23/04

11/23/04

MSVOA 10 8260/GASOT W ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 494472916 Instrument: MSVOA10 HP GCMS VOA 10 Begun: 23-NOV-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	jkn01	X	IB			23-NOV-2004 09:56	1.0					1	
002	jkn02	TUN	BFB			23-NOV-2004 10:31	1.0					2	
003	jkn03	CCV	37.5/35PPB			23-NOV-2004 10:49	1.0		5000			3 4 5 1	
004	jkn04	X	IB			23-NOV-2004 16:37	1.0					1	
005	jkn05	X	IB			23-NOV-2004 17:11	1.0					1	
006	jkn06	TUN	BFB			23-NOV-2004 17:44	1.0					2	
007	jkn07	X	IB			23-NOV-2004 18:01	1.0					1	
008	jkn08	X	IB			23-NOV-2004 18:35	1.0					1	
009	jkn09	X	IB			23-NOV-2004 19:08	1.0					1	
010	jkn10	X	IB			23-NOV-2004 19:42	1.0					1	
011	jkn11	X	CALIB IB			23-NOV-2004 20:15	1.0					1	
012	jkn12	ICAL	0.5/1PPB			23-NOV-2004 20:50	1.0					3 4 5 1	
013	jkn13	ICAL	5PPB			23-NOV-2004 21:23	1.0					3 4 5 1	
014	jkn14	ICAL	10PPB			23-NOV-2004 21:57	1.0					3 4 5 1	
015	jkn15	ICAL	20PPB			23-NOV-2004 22:30	1.0					3 4 5 1	
016	jkn16	ICAL	50PPB			23-NOV-2004 23:04	1.0					3 4 5 1	
017	jkn17	ICAL	75PPB			23-NOV-2004 23:38	1.0					3 4 5 1	
018	jkn18	ICAL	100PPB			24-NOV-2004 00:11	1.0					3 4 5 1	
019	jkn19	ICV				24-NOV-2004 00:45	1.0		5000			6 1	
020	jkn20	ICV				24-NOV-2004 01:18	1.0	1	5000			7 8 1	
021	jkn21	X	IB			24-NOV-2004 01:52	1.0					1	
022	jkn22	X	IB			24-NOV-2004 02:26	1.0					1	
023	jkn23	X	IB			24-NOV-2004 02:59	1.0					1	

ICAL - Good, ICV - xclevel + A.C.E. limit - F12, CLMet

Stds used: 1=04WS2096C 2=04WS1238 3=04SS408 4=04WS2168A 5=04WS2204A 6=04WS2093 7=04WS1940 8=04WS1968

Analyst: [signature] Date: 11/24/04

Page 1 of 1

11/24/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	1,2-DCB	1,3-DCB	1,4-DCB	2-Butanone	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Ethylbenzene	Methylene chloride	Styrene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl acetate	Vinyl chloride	Xylene (total)
176662-001	MSVOA06	12/21/04 12:48	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
176662-002	MSVOA06	12/21/04 13:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
176662-003	MSVOA06	12/21/04 13:58	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
176662-004	MSVOA06	12/21/04 14:32	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
176662-011	MSVOA06	12/21/04 12:14	1.0																											
176662-011	MSVOA10	12/22/04 19:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277135	MSVOA06	12/21/04 09:21	1.0	+	+	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+
QC277136	MSVOA06	12/21/04 09:56	1.0	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+
QC277137	MSVOA06	12/21/04 11:05	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277368	MSVOA10	12/22/04 17:35	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277369	MSVOA10	12/22/04 18:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277424	MSVOA10	12/23/04 03:08	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277425	MSVOA10	12/23/04 03:42	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 12/21/01

PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	176740-3		B	8			6	1.43x	
2	-5			8				14.3x	
3	-8			8				1x	
4	-9			8				1x	
5	-10			8				6.25x	
6	-11			8				1x	
7	-12			8				1.43x	
8	-13			8				1.43x	
9	-14			8				1x	
10	-15		C	<2				1x	
11	176543-15*		B	7				AR 2x	
12	176740-16			<2				1x	
13	176662-1							1x	
14	-2								
15	-3			7					
16	-4		A	<2				TB Didn't sample	
17	-11								
18									
19									
20									
21									
22									
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42									

PREPFORM.XLS

7/21/96

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 12/22/98
PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	176707-24		AB	4	20ml/1ml		10	1x reverse silica	
2	176737-31		C	<2				5x reverse +CDS	
3	176662-11		B	↓				1:1 1x TB	
4	176681-8		C	<2				1:2.5x OD	
5	9		↓	↓				300x OD	
6	15							83.3x OD	
7	23		↓	↓				1:2.5x OD	
8	176705-11		D	<2				1x	
9	13		C					↓	
10	17		A					TB 1x	
11	176683-2		B					1x	
12	3		↓					↓	
13	4							+MSS/MSD/MSD	Put off
14	5		↓CDE	↓				1x	
15	176741-1		C					2x	
16	-2		↓					1x	
17	-3							1x	
18	-4		↓					1x	
19	176745-1		B	/				1x	Put off
20	2		↓	/			↓	1x	
21									
22									
23									
24									
25									
26									
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PREPFORM.XLS

7/21/98

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	09/11/04 0.20	10/26/04 0.13	10/12/04 0.083	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	09/11/04 0.031	10/26/04 0.043	10/12/04 0.040	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	09/11/04 0.069	10/26/04 0.098	10/12/04 0.089	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	09/11/04 0.087	10/26/04 0.079	10/12/04 0.074	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	09/11/04 0.031	10/26/04 0.057	10/12/04 0.070	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	09/11/04 0.046	10/26/04 0.15	10/12/04 0.14	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	09/11/04 0.15	10/26/04 0.069	10/12/04 0.22	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	09/11/04 0.12	10/26/04 0.12	10/12/04 0.14	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	09/11/04 0.18	10/26/04 0.49	10/12/04 0.34	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	09/11/04 0.27	10/26/04 0.40	10/12/04 0.36	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	09/11/04 0.090	10/26/04 0.13	10/12/04 0.098	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L	09/15/04 1.0	10/26/04 0.63	10/12/04 0.31	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	09/11/04 0.091	10/26/04 0.099	10/12/04 0.088	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	09/11/04 0.11	10/26/04 0.27	10/12/04 0.19	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	09/11/04 0.074	10/26/04 0.18	10/12/04 0.049	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	09/11/04 0.078	10/26/04 0.037	10/12/04 0.042	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	09/11/04 0.089	10/26/04 0.21	10/12/04 0.18	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	09/11/04 0.069	10/26/04 0.061	10/12/04 0.067	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	09/11/04 0.057	10/26/04 0.059	10/12/04 0.12	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	09/11/04 0.39	10/26/04 0.41	10/12/04 0.27	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	09/11/04 0.13	10/26/04 0.17	10/12/04 0.068	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	09/11/04 0.085	10/26/04 0.12	10/12/04 0.10	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	09/11/04 0.11	10/26/04 0.044	10/12/04 0.046	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	09/11/04 0.18	10/26/04 0.082	10/12/04 0.13	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	09/11/04 0.099	10/26/04 0.041	10/12/04 0.050	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	09/11/04 0.089	10/26/04 0.24	10/12/04 0.098	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	09/11/04 0.10	10/26/04 0.086	10/12/04 0.091	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	09/11/04 0.12	10/26/04 0.097	10/12/04 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.079	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	09/11/04 0.086	10/26/04 0.068	10/12/04 0.055	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	09/11/04 0.076	10/26/04 0.078	10/12/04 0.066	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	09/11/04 0.16	10/26/04 0.071	10/12/04 0.18	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	09/11/04 0.055	10/26/04 0.094	10/12/04 0.083	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	09/11/04 0.074	10/26/04 0.079	10/12/04 0.070	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	09/11/04 0.051	10/26/04 0.12	10/12/04 0.12	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	09/11/04 0.16	10/26/04 0.24	10/12/04 0.089	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	09/11/04 0.070	10/26/04 0.075	10/12/04 0.068	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	09/11/04 0.13	10/26/04 0.14	10/12/04 0.13	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	09/11/04 0.059	10/26/04 0.13	10/12/04 0.082	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	09/11/04 0.11	10/26/04 0.090	10/12/04 0.086	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	10/26/04 0.15	10/12/04 0.10	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	09/11/04 0.13	10/26/04 0.12	10/12/04 0.084	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	09/11/04 0.055	10/26/04 0.069	10/12/04 0.069	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	09/11/04 0.093	10/26/04 0.20	10/12/04 0.20	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	09/11/04 0.087	10/26/04 0.081	10/12/04 0.096	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	09/11/04 0.092	10/26/04 0.057	10/12/04 0.062	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	09/11/04 0.080	10/26/04 0.073	10/12/04 0.098	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	09/11/04 0.11	10/26/04 0.078	10/12/04 0.060	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	09/11/04 0.036	10/26/04 0.089	10/12/04 0.076	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	09/11/04 0.15	10/26/04 0.25	10/12/04 0.11	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	09/11/04 0.091	10/26/04 0.092	10/12/04 0.062	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	09/11/04 0.14	10/26/04 0.11	10/12/04 0.11	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	09/11/04 0.088	10/26/04 0.11	10/12/04 0.077	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.099	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	09/11/04 0.12	10/26/04 0.059	10/12/04 0.063	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	09/11/04 0.10	10/26/04 0.036	10/12/04 0.050	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	09/11/04 0.13	10/26/04 0.13	10/12/04 0.096	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	09/11/04 0.061	10/26/04 0.11	10/12/04 0.063	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	09/11/04 0.066	10/26/04 0.069	10/12/04 0.085	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	09/11/04 0.036	10/26/04 0.076	10/12/04 0.068	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	09/11/04 0.12	10/26/04 0.066	10/12/04 0.093	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	09/11/04 0.14	10/26/04 0.15	10/12/04 0.12	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	09/11/04 0.066	10/26/04 0.075	10/12/04 0.078	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	09/11/04 0.37	10/26/04 0.21	10/12/04 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	09/11/04 0.11	10/26/04 0.15	10/12/04 0.21	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	09/11/04 0.21	10/26/04 0.15	10/12/04 0.20	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	09/11/04 0.16	10/26/04 0.047	10/12/04 0.083	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	09/11/04 0.072	10/26/04 0.073	10/12/04 0.11	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	09/11/04 0.71	10/26/04 1.4	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	09/11/04 0.030	10/26/04 0.062	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	09/11/04 0.069	10/26/04 0.046	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	09/11/04 0.090	10/26/04 0.096	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	09/11/04 2.8	10/26/04 7.3	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0
Ethanol	ug/L	09/11/04 33	10/26/04 78	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L	09/11/04 1.6	10/26/04 3.6	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	09/11/04 0.24	10/26/04 1.9	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	09/11/04 0.067	10/26/04 0.066	10/12/04 0.15	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L			10/12/04 1.1	06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

PESTICIDES

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW102	Batch#:	97633
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/19/04
Diln Fac:	1.000	Analyzed:	12/24/04

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	103	65-135
Decachlorobiphenyl	84 b	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW103	Batch#:	97633
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/19/04
Diln Fac:	1.000	Analyzed:	12/24/04

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	94	65-135
Decachlorobiphenyl	83 b	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	LF5GW104	Batch#:	97633
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/19/04
Diln Fac:	1.000	Analyzed:	12/24/04

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	78 b	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276883	Batch#:	97633
Matrix:	Water	Prepared:	12/19/04
Units:	ug/L	Analyzed:	12/24/04

Analyte	Result	RL
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC	ND	0.05
delta-BHC	ND	0.05
Heptachlor	ND	0.05
Aldrin	ND	0.05
Heptachlor epoxide	ND	0.05
Endosulfan I	ND	0.05
Dieldrin	ND	0.1
4,4'-DDE	ND	0.1
Endrin	ND	0.1
Endosulfan II	ND	0.1
Endosulfan sulfate	ND	0.1
4,4'-DDD	ND	0.1
4,4'-DDT	ND	0.1
alpha-Chlordane	ND	0.05
gamma-Chlordane	ND	0.05
Methoxychlor	ND	0.5
Endrin ketone	ND	0.1
Toxaphene	ND	1.0

Surrogate	%REC	Limits
TCMX	99	65-135
Decachlorobiphenyl	125	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276884	Batch#:	97633
Matrix:	Water	Prepared:	12/19/04
Units:	ug/L	Analyzed:	12/24/04

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	0.2000	0.1850	93	65-135
Heptachlor	0.2000	0.1848	92	65-135
Aldrin	0.2000	0.1772	89	65-135
Dieldrin	0.4000	0.3782	95	65-135
Endrin	0.4000	0.3636	91	65-135
4,4'-DDT	0.4000	0.3794	95	65-135

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	110	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8081A
Field ID:	1349MW102	Batch#:	97633
MSS Lab ID:	176726-004	Sampled:	12/16/04
Matrix:	Water	Received:	12/17/04
Units:	ug/L	Prepared:	12/19/04
Diln Fac:	1.000	Analyzed:	12/24/04

Type: MS Lab ID: QC276885

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.007400	0.1961	0.2224	113	65-135
Heptachlor	<0.01400	0.1961	0.2048	104	65-135
Aldrin	<0.008200	0.1961	0.1881	96	65-135
Dieldrin	<0.006700	0.3922	0.3689	94	65-135
Endrin	<0.01500	0.3922	0.3932	100	65-135
4,4'-DDT	<0.04700	0.3922	0.3616	92	65-135

Surrogate	%REC	Limits
TCMX	97	65-135
Decachlorobiphenyl	84 b	65-135

Type: MSD Lab ID: QC276886

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	0.1961	0.2091	107	65-135	6	35
Heptachlor	0.1961	0.1816	93	65-135	12	35
Aldrin	0.1961	0.1680	86	65-135	11	35
Dieldrin	0.3922	0.3316	85	65-135	11	35
Endrin	0.3922	0.3399	87	65-135	15	35
4,4'-DDT	0.3922	0.3224	82	65-135	11	35

Surrogate	%REC	Limits
TCMX	96	65-135
Decachlorobiphenyl	81 b	65-135

b= See narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: RH
Calnum: 244513975001 Name: Type: (normal) Date: 21-DEC-2004 22:15 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	356_007	244513975007	pest_1	21-DEC-2004 22:15	04WS1628
2	356_008	244513975008	pest_2	21-DEC-2004 22:44	04WS1629
3	356_009	244513975009	pest_3	21-DEC-2004 23:13	04WS2051
4	356_010	244513975010	pest_4	21-DEC-2004 23:42	04WS2344
5	356_011	244513975011	pest_5	22-DEC-2004 00:12	04WS2053
6	356_012	244513975012	pest_6	22-DEC-2004 00:41	04WS1634
7	356_013	244513975013	pest_7	22-DEC-2004 01:10	04WS1635

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
alpha-BHC	A	12582	12577	11671	11166	11614	12346	15111	AVRG	R		8.040E-5		pg	12438	10	0.995	20	
gamma-BHC	A	11435	11530	10440	9919.0	10365	10829	13203	AVRG	R		9.007E-5		pg	11103	10	0.995	20	
beta-BHC	A	5306.5	5153.4	4568.0	4213.5	4374.1	4282.6	4620.2	AVRG	R		2.153E-4		pg	4645.5	9	0.995	20	
delta-BHC	A	11744	11536	10150	9551.1	10186	10678	13337	AVRG	R		9.070E-5		pg	11026	12	0.995	20	
Heptachlor	A	10996	11016	9375.1	8924.7	9610.4	9910.3	12242	AVRG	R		9.712E-5		pg	10296	11	0.995	20	
Aldrin	A	11103	11065	9333.5	8802.0	9436.8	9734.4	12022	AVRG	R		9.791E-5		pg	10214	12	0.995	20	
Heptachlor epoxide	A	10360	10289	8385.3	7823.5	8510.7	8610.0	10450	AVRG	R		1.086E-4		pg	9204.1	12	0.995	20	
gamma-Chlordane	A	10393	10321	8177.4	7644.5	8419.7	8612.5	10901	AVRG	R		1.086E-4		pg	9209.9	14	0.995	20	
alpha-Chlordane	A	9958.3	9875.4	7755.8	7252.7	7968.9	8106.6	10181	AVRG	R		1.146E-4		pg	8728.3	14	0.995	20	
4,4'-DDE	A	9974.9	9736.9	7325.9	6873.3	7884.2	8619.2	11628	AVRG	R		1.128E-4		pg	8863.2	19	0.995	20	
Endosulfan I	A	9616.4	9462.6	7442.1	6791.3	7464.0	7467.3	9051.0	AVRG	R		1.222E-4		pg	8185.0	14	0.995	20	
Dieldrin	A	10296	10161	7871.4	7437.5	8424.3	9095.7	11885	AVRG	R		1.074E-4		pg	9310.1	17	0.995	20	
Endrin	A	8319.8	8168.9	5945.0	5548.0	6381.4	6770.6	8944.9	AVRG	R		1.398E-4		pg	7154.1	18	0.995	20	
4,4'-DDD	A	7840.4	7689.8	5610.1	5186.9	5939.8	6357.0	8595.0	AVRG	R		1.482E-4		pg	6745.5	19	0.995	20	
Endosulfan II	A	8419.5	8145.6	6059.8	5582.4	6320.5	6627.9	8662.5	AVRG	R		1.405E-4		pg	7116.9	18	0.995	20	
4,4'-DDT	A	7550.8	7258.3	5094.8	4748.4	5681.9	6029.7		AVRG	R		1.650E-4		pg	6060.7	19	0.995	20	
Methoxychlor	A	3360.5	3162.3	2131.9	2007.7	2496.6	2672.1	2876.6	AVRG	R		3.742E-4		pg	2672.5	19	0.995	20	
Endosulfan sulfate	A	7452.5	7150.6	5126.3	4672.0	5326.1	5480.1	7371.8	AVRG	R		1.644E-4		pg	6082.8	20	0.995	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD Reviewed By: RH
Calnum: 244513975001 Name: Type: (normal) Date: 21-DEC-2004 22:15 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Endrin ketone	A	8338.7	7954.4	5712.0	5166.5	5893.8	6090.3	7745.8	AVRG	R		1.492E-4		pg	6700.2	19	0.995	20	
TCMX	A	8035.9	8022.7	7196.3	6966.0	7131.3	7489.8	8722.9	AVRG	R		1.307E-4		pg	7652.1	8	0.995	20	
Decachlorobiphenyl	A	5386.6	4966.3	3297.3	2905.5	3567.3	3389.7	5394.6	AVRG	R		2.422E-4		pg	4129.6	**26**	0.995	20	rsd ***
alpha-BHC	B	13905	12124	12851	12382	12221	13190	14484	AVRG	R		7.679E-5		pg	13022	7	0.995	20	
gamma-BHC	B	12606	10830	11562	10979	10922	11714	12733	AVRG	R		8.605E-5		pg	11621	7	0.995	20	
beta-BHC	B	5532.0	4602.0	4917.6	4543.3	4554.8	4559.6	4586.1	AVRG	R		2.102E-4		pg	4756.5	8	0.995	20	
delta-BHC	B	12912	10829	11544	10777	10948	11874	12703	AVRG	R		8.580E-5		pg	11655	8	0.995	20	
Heptachlor	B	10923	9407.6	10266	9669.9	9736.7	10348	10973	AVRG	R		9.814E-5		pg	10189	6	0.995	20	
Aldrin	B	11309	9778.4	10513	9695.8	9858.3	10485	10931	AVRG	R		9.646E-5		pg	10367	6	0.995	20	
Heptachlor epoxide	B	10398	9002.9	9723.3	8751.3	9089.7	9532.3	9546.7	AVRG	R		1.060E-4		pg	9434.8	6	0.995	20	
gamma-Chlordane	B	10252	8818.1	9707.3	8700.7	9143.1	9722.7	9867.9	AVRG	R		1.057E-4		pg	9458.8	6	0.995	20	
alpha-Chlordane	B	9975.9	8473.1	9373.7	8301.9	8779.4	9148.5	9126.4	AVRG	R		1.108E-4		pg	9025.5	6	0.995	20	
4,4'-DDE	B	9769.4	8282.9	9407.2	8462.7	9424.7	10418	10336	AVRG	R		1.059E-4		pg	9443.1	9	0.995	20	
Endosulfan I	B	9435.9	8053.8	8900.6	7834.3	8254.0	8419.8	8244.2	AVRG	R		1.184E-4		pg	8448.9	6	0.995	20	
Dieldrin	B	9862.3	8397.0	9397.7	8458.9	9277.4	10085	10120	AVRG	R		1.067E-4		pg	9371.2	8	0.995	20	
Endrin	B	8077.5	6727.3	7740.9	6747.2	7438.3	7979.4	7721.8	AVRG	R		1.335E-4		pg	7490.4	7	0.995	20	
4,4'-DDD	B	7619.8	6357.4	7188.3	6185.0	7060.2	7718.5	7257.3	AVRG	R		1.417E-4		pg	7055.2	8	0.995	20	
Endosulfan II	B	8471.3	7122.7	8041.5	6974.4	7788.6	8408.5	8016.7	AVRG	R		1.277E-4		pg	7832.0	7	0.995	20	
4,4'-DDT	B	7479.0	6225.6	7436.1	6369.0	7529.1	8230.1	7597.7	AVRG	R		1.376E-4		pg	7266.6	10	0.995	20	
Methoxychlor	B	3173.2	2562.5	3135.7	2684.2	3275.1	3446.9	2534.9	AVRG	R		3.363E-4		pg	2973.2	12	0.995	20	
Endosulfan sulfate	B	7535.7	6203.6	6973.8	5878.1	6717.2	7225.1	6853.8	AVRG	R		1.477E-4		pg	6769.6	8	0.995	20	
Endrin ketone	B	9070.1	7401.5	8371.4	7076.8	8263.8	8835.7	7690.1	AVRG	R		1.234E-4		pg	8101.3	9	0.995	20	
TCMX	B	8647.0	7374.7	7857.7	7794.2	7228.5	7762.4	8866.7	AVRG	R		1.261E-4		pg	7933.0	8	0.995	20	
Decachlorobiphenyl	B	5914.1	4699.0	5664.4	4680.3	5874.2	6399.0	5554.0	AVRG	R		1.805E-4		pg	5540.7	12	0.995	20	

Method	Ch	Count	Avg	%RSD	Limit	Flags
EPA 8081A	A	22		15	20	
EPA 8081A	B	22		8	20	

Flags used: rsd=ICAL %RSD failure

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instid : GC21 Calname :
Calnum : 244513975001 Caldate : 21-DEC-2004 Caltype :

ICV 244513975016 (356_016) standards: 04WS2099

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
alpha-BHC	A	244513975016	22-DEC-2004	25.000	24.833	pg	-1	15
gamma-BHC	A	244513975016	22-DEC-2004	25.000	25.030	pg	0	15
beta-BHC	A	244513975016	22-DEC-2004	25.000	25.212	pg	1	15
delta-BHC	A	244513975016	22-DEC-2004	25.000	25.585	pg	2	15
Heptachlor	A	244513975016	22-DEC-2004	25.000	24.820	pg	-1	15
Aldrin	A	244513975016	22-DEC-2004	25.000	25.072	pg	0	15
Heptachlor epoxide	A	244513975016	22-DEC-2004	25.000	24.262	pg	-3	15
gamma-Chlordane	A	244513975016	22-DEC-2004	25.000	23.801	pg	-5	15
alpha-Chlordane	A	244513975016	22-DEC-2004	25.000	24.343	pg	-3	15
4,4'-DDE	A	244513975016	22-DEC-2004	25.000	23.236	pg	-7	15
Endosulfan I	A	244513975016	22-DEC-2004	25.000	24.645	pg	-1	15
Dieldrin	A	244513975016	22-DEC-2004	25.000	23.478	pg	-6	15
Endrin	A	244513975016	22-DEC-2004	25.000	24.378	pg	-2	15
4,4'-DDD	A	244513975016	22-DEC-2004	25.000	23.829	pg	-5	15
Endosulfan II	A	244513975016	22-DEC-2004	25.000	24.385	pg	-2	15
4,4'-DDT	A	244513975016	22-DEC-2004	25.000	24.161	pg	-3	15
Methoxychlor	A	244513975016	22-DEC-2004	25.000	25.281	pg	1	15
Endosulfan sulfate	A	244513975016	22-DEC-2004	25.000	24.383	pg	-2	15
Endrin ketone	A	244513975016	22-DEC-2004	25.000	24.487	pg	-2	15
alpha-BHC	B	244513975016	22-DEC-2004	25.000	24.638	pg	-1	15
gamma-BHC	B	244513975016	22-DEC-2004	25.000	24.880	pg	0	15
beta-BHC	B	244513975016	22-DEC-2004	25.000	24.992	pg	0	15
delta-BHC	B	244513975016	22-DEC-2004	25.000	25.570	pg	2	15
Heptachlor	B	244513975016	22-DEC-2004	25.000	25.473	pg	2	15
Aldrin	B	244513975016	22-DEC-2004	25.000	25.461	pg	2	15
Heptachlor epoxide	B	244513975016	22-DEC-2004	25.000	24.773	pg	-1	15
gamma-Chlordane	B	244513975016	22-DEC-2004	25.000	24.636	pg	-1	15
alpha-Chlordane	B	244513975016	22-DEC-2004	25.000	24.997	pg	0	15
4,4'-DDE	B	244513975016	22-DEC-2004	25.000	24.369	pg	-3	15
Endosulfan I	B	244513975016	22-DEC-2004	25.000	25.335	pg	1	15
Dieldrin	B	244513975016	22-DEC-2004	25.000	24.654	pg	-1	15
Endrin	B	244513975016	22-DEC-2004	25.000	25.538	pg	2	15
4,4'-DDD	B	244513975016	22-DEC-2004	25.000	25.007	pg	0	15
Endosulfan II	B	244513975016	22-DEC-2004	25.000	25.254	pg	1	15
4,4'-DDT	B	244513975016	22-DEC-2004	25.000	25.375	pg	2	15
Methoxychlor	B	244513975016	22-DEC-2004	25.000	28.542	pg	14	15
Endosulfan sulfate	B	244513975016	22-DEC-2004	25.000	25.377	pg	2	15
Endrin ketone	B	244513975016	22-DEC-2004	25.000	25.372	pg	1	15

Method	Ch	Count	Avg	%D Limit	Flags
EPA 8081A	A	22	4	15	
EPA 8081A	B	22	3	15	

PERFORMANCE EVALUATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244515047049 Run Name: Injected: 23-DEC-2004 22:55
Filename: 357_049 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	380660.65
Endrin aldehyde	A	12717.5
Endrin ketone	A	32655.16

Endrin Breakdown %: 11
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	724521
4,4'-DDE	A	4094
4,4'-DDD	A	41940.85

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	374451
Endrin aldehyde	B	3423.39
Endrin ketone	B	24215.12

Endrin Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	752080.83
4,4'-DDE	B	2264
4,4'-DDD	B	23733.67

4,4'-DDT Breakdown %: 3
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244515047064 Run Name: Injected: 24-DEC-2004 06:11
Filename: 357_064 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	408536.93
Endrin aldehyde	A	7729
Endrin ketone	A	30715.43

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	706445.77
4,4'-DDE	A	4400.61
4,4'-DDD	A	50928.7

4,4'-DDT Breakdown %: 7
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	382444.53
Endrin aldehyde	B	3588.61
Endrin ketone	B	32419.01

Endrin Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	734169.37
4,4'-DDE	B	2283
4,4'-DDD	B	42642.49

4,4'-DDT Breakdown %: 6
Breakdown Limit %: 15

PERFORMANCE EVALUATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244515047080 Run Name: Injected: 24-DEC-2004 13:56
Filename: 357_080 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	305645.32
Endrin aldehyde	A	13872.99
Endrin ketone	A	35439.68

Endrin Breakdown %: 14
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	513062.12
4,4'-DDE	A	4037
4,4'-DDD	A	55530.61

4,4'-DDT Breakdown %: 10
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	268696.59
Endrin aldehyde	B	36338.54
Endrin ketone	B	81867.45

Endrin Breakdown %: **31 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	514451.5
4,4'-DDE	B	3093.5
4,4'-DDD	B	112705.51

4,4'-DDT Breakdown %: **18 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

PERFORMANCE EVALUATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instrument: GC21 Gas Chromatograph #21 ECD
Seqnum: 244515047097 Run Name: Injected: 24-DEC-2004 22:11
Filename: 357_097 Standard(s): 04WS2193

Analyte	Ch	Area
Endrin	A	351122.5
Endrin aldehyde	A	13835.94
Endrin ketone	A	38560.36

Endrin Breakdown %: 13
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	A	608847.5
4,4'-DDE	A	5691.08
4,4'-DDD	A	57333

4,4'-DDT Breakdown %: 9
Breakdown Limit %: 15

Analyte	Ch	Area
Endrin	B	279256.88
Endrin aldehyde	B	39427.38
Endrin ketone	B	94058.64

Endrin Breakdown %: **32 P *****
Breakdown Limit %: 15

Analyte	Ch	Area
4,4'-DDT	B	545978
4,4'-DDE	B	3161
4,4'-DDD	B	125842.71

4,4'-DDT Breakdown %: **19 P *****
Breakdown Limit %: 15

P=PEM failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : pest_3 IDF : 1.0
Seqnum : 244515047050 Filename : 357_050 Injected : 23-DEC-2004 23:24
Calnum : 244513975001 Caldate : 21-DEC-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12438	13728	10.00000	11.03737	pg	10	15	
gamma-BHC	A	11103	12402	10.00000	11.17031	pg	12	15	
beta-BHC	A	4645.5	5399.8	10.00000	11.62379	pg	**16**	15	c+ ***
delta-BHC	A	11026	12101	10.00000	10.97498	pg	10	15	
Heptachlor	A	10296	11261	10.00000	10.93691	pg	9	15	
Aldrin	A	10214	11397	10.00000	11.15808	pg	12	15	
Heptachlor epoxide	A	9204.1	10464	10.00000	11.36859	pg	14	15	
gamma-Chlordane	A	9209.9	10331	10.00000	11.21685	pg	12	15	
alpha-Chlordane	A	8728.3	9817.9	10.00000	11.24831	pg	12	15	
4,4'-DDE	A	8863.2	9543.8	20.00000	21.53577	pg	8	15	
Endosulfan I	A	8185.0	9262.2	10.00000	11.31611	pg	13	15	
Dieldrin	A	9310.1	10073	20.00000	21.63817	pg	8	15	
Endrin	A	7154.1	8041.1	20.00000	22.47976	pg	12	15	
4,4'-DDD	A	6745.5	7533.0	20.00000	22.33474	pg	12	15	
Endosulfan II	A	7116.9	7871.9	20.00000	22.12181	pg	11	15	
4,4'-DDT	A	6060.7	6625.8	20.00000	21.86487	pg	9	15	
Methoxychlor	A	2672.5	2938.2	100.0000	109.9412	pg	10	15	
Endosulfan sulfate	A	6082.8	6735.8	20.00000	22.14717	pg	11	15	
Endrin ketone	A	6700.2	7652.2	20.00000	22.84160	pg	14	15	
TCMX	A	7652.1	8573.6	20.00000	22.40845	pg	12	15	
Decachlorobiphenyl	A	4129.6	4842.7	20.00000	23.45371	pg	**17**	15	c+ rsd ***
alpha-BHC	B	13022	13154	10.00000	10.10135	pg	1	15	
gamma-BHC	B	11621	11749	10.00000	10.11041	pg	1	15	
beta-BHC	B	4756.5	4945.8	10.00000	10.39800	pg	4	15	
delta-BHC	B	11655	11528	10.00000	9.890499	pg	-1	15	
Heptachlor	B	10189	10250	10.00000	10.06000	pg	1	15	
Aldrin	B	10367	10470	10.00000	10.09920	pg	1	15	
Heptachlor epoxide	B	9434.8	9636.2	10.00000	10.21347	pg	2	15	
gamma-Chlordane	B	9458.8	9567.4	10.00000	10.11477	pg	1	15	
alpha-Chlordane	B	9025.5	9211.7	10.00000	10.20625	pg	2	15	
4,4'-DDE	B	9443.1	9260.4	20.00000	19.61313	pg	-2	15	
Endosulfan I	B	8448.9	8757.2	10.00000	10.36486	pg	4	15	
Dieldrin	B	9371.2	9330.2	20.00000	19.91249	pg	0	15	
Endrin	B	7490.4	7745.6	20.00000	20.68146	pg	3	15	
4,4'-DDD	B	7055.2	7356.9	20.00000	20.85533	pg	4	15	
Endosulfan II	B	7832.0	7966.9	20.00000	20.34461	pg	2	15	
4,4'-DDT	B	7266.6	7039.3	20.00000	19.37413	pg	-3	15	
Methoxychlor	B	2973.2	3129.2	100.0000	105.2468	pg	5	15	
Endosulfan sulfate	B	6769.6	7017.4	20.00000	20.73196	pg	4	15	
Endrin ketone	B	8101.3	8529.6	20.00000	21.05736	pg	5	15	
TCMX	B	7933.0	8295.9	20.00000	20.91488	pg	5	15	
Decachlorobiphenyl	B	5540.7	6061.4	20.00000	21.87962	pg	9	15	
Average EPA 8081A	A		(count=22)				11	15	
Average EPA 8081A	B		(count=22)				3	15	

+=high bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : pest_4 IDF : 1.0
Seqnum : 244515047066 Filename : 357_066 Injected : 24-DEC-2004 07:09
Calnum : 244513975001 Caldate : 21-DEC-2004 Caltype :
Standards: 04WS2344

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12438	13297	20.00000	21.38198	pg	7	15	
gamma-BHC	A	11103	11760	20.00000	21.18424	pg	6	15	
beta-BHC	A	4645.5	4829.1	20.00000	20.79076	pg	4	15	
delta-BHC	A	11026	11281	20.00000	20.46264	pg	2	15	
Heptachlor	A	10296	10438	20.00000	20.27534	pg	1	15	
Aldrin	A	10214	10459	20.00000	20.48091	pg	2	15	
Heptachlor epoxide	A	9204.1	9381.9	20.00000	20.38632	pg	2	15	
gamma-Chlordane	A	9209.9	9162.2	20.00000	19.89630	pg	-1	15	
alpha-Chlordane	A	8728.3	8754.5	20.00000	20.05993	pg	0	15	
4,4'-DDE	A	8863.2	8516.9	40.00000	38.43708	pg	-4	15	
Endosulfan I	A	8185.0	8225.5	20.00000	20.09891	pg	0	15	
Dieldrin	A	9310.1	9159.0	40.00000	39.35051	pg	-2	15	
Endrin	A	7154.1	6900.3	40.00000	38.58093	pg	-4	15	
4,4'-DDD	A	6745.5	6774.3	40.00000	40.17070	pg	0	15	
Endosulfan II	A	7116.9	7002.0	40.00000	39.35456	pg	-2	15	
4,4'-DDT	A	6060.7	5523.4	40.00000	36.45415	pg	-9	15	
Methoxychlor	A	2672.5	2558.8	200.0000	191.4881	pg	-4	15	
Endosulfan sulfate	A	6082.8	5871.1	40.00000	38.60836	pg	-3	15	
Endrin ketone	A	6700.2	6981.8	40.00000	41.68130	pg	4	15	
TCMX	A	7652.1	8134.3	40.00000	42.52078	pg	6	15	
Decachlorobiphenyl	A	4129.6	4065.9	40.00000	39.38316	pg	-2	15	rsd ***
alpha-BHC	B	13022	12293	20.00000	18.87920	pg	-6	15	
gamma-BHC	B	11621	10929	20.00000	18.80965	pg	-6	15	
beta-BHC	B	4756.5	4531.0	20.00000	19.05167	pg	-5	15	
delta-BHC	B	11655	10902	20.00000	18.70682	pg	-6	15	
Heptachlor	B	10189	9618.9	20.00000	18.88087	pg	-6	15	
Aldrin	B	10367	9760.7	20.00000	18.82999	pg	-6	15	
Heptachlor epoxide	B	9434.8	8996.8	20.00000	19.07157	pg	-5	15	
gamma-Chlordane	B	9458.8	9010.4	20.00000	19.05191	pg	-5	15	
alpha-Chlordane	B	9025.5	8690.5	20.00000	19.25750	pg	-4	15	
4,4'-DDE	B	9443.1	9113.0	40.00000	38.60190	pg	-3	15	
Endosulfan I	B	8448.9	8184.4	20.00000	19.37374	pg	-3	15	
Dieldrin	B	9371.2	9163.2	40.00000	39.11216	pg	-2	15	
Endrin	B	7490.4	7325.4	40.00000	39.11917	pg	-2	15	
4,4'-DDD	B	7055.2	7523.3	40.00000	42.65360	pg	7	15	
Endosulfan II	B	7832.0	7767.8	40.00000	39.67224	pg	-1	15	
4,4'-DDT	B	7266.6	6604.2	40.00000	36.35325	pg	-9	15	
Methoxychlor	B	2973.2	3127.8	200.0000	210.3999	pg	5	15	
Endosulfan sulfate	B	6769.6	6775.1	40.00000	40.03272	pg	0	15	
Endrin ketone	B	8101.3	8586.9	40.00000	42.39723	pg	6	15	
TCMX	B	7933.0	7693.9	40.00000	38.79422	pg	-3	15	
Decachlorobiphenyl	B	5540.7	6124.1	40.00000	44.21143	pg	11	15	
Average EPA 8081A	A		(count=22)				3	15	
Average EPA 8081A	B		(count=22)				5	15	

rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : pest_4 IDF : 1.0
Seqnum : 244515047098 Filename : 357_098 Injected : 24-DEC-2004 22:40
Calnum : 244513975001 Caldate : 21-DEC-2004 Caltype :
Standards: 04WS2344

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12438	13257	20.00000	21.31621	pg	7	15	
gamma-BHC	A	11103	11722	20.00000	21.11557	pg	6	15	
beta-BHC	A	4645.5	4857.2	20.00000	20.91134	pg	5	15	
delta-BHC	A	11026	11427	20.00000	20.72756	pg	4	15	
Heptachlor	A	10296	10122	20.00000	19.66163	pg	-2	15	
Aldrin	A	10214	10471	20.00000	20.50340	pg	3	15	
Heptachlor epoxide	A	9204.1	9439.8	20.00000	20.51228	pg	3	15	
gamma-Chlordane	A	9209.9	9300.9	20.00000	20.19758	pg	1	15	
alpha-Chlordane	A	8728.3	8841.7	20.00000	20.25983	pg	1	15	
4,4'-DDE	A	8863.2	8597.6	40.00000	38.80162	pg	-3	15	
Endosulfan I	A	8185.0	8344.5	20.00000	20.38969	pg	2	15	
Dieldrin	A	9310.1	9267.9	40.00000	39.81848	pg	0	15	
Endrin	A	7154.1	6724.5	40.00000	37.59813	pg	-6	15	
4,4'-DDD	A	6745.5	7040.5	40.00000	41.74914	pg	4	15	
Endosulfan II	A	7116.9	7205.7	40.00000	40.49919	pg	1	15	
4,4'-DDT	A	6060.7	5526.3	40.00000	36.47310	pg	-9	15	
Methoxychlor	A	2672.5	2502.3	200.0000	187.2601	pg	-6	15	
Endosulfan sulfate	A	6082.8	6030.1	40.00000	39.65382	pg	-1	15	
Endrin ketone	A	6700.2	7346.5	40.00000	43.85854	pg	10	15	
TCMX	A	7652.1	7951.6	40.00000	41.56568	pg	4	15	
Decachlorobiphenyl	A	4129.6	4118.7	40.00000	39.89410	pg	0	15	rsd ***
alpha-BHC	B	13022	12537	20.00000	19.25491	pg	-4	15	
gamma-BHC	B	11621	11121	20.00000	19.13936	pg	-4	15	
beta-BHC	B	4756.5	4700.5	20.00000	19.76460	pg	-1	15	
delta-BHC	B	11655	11247	20.00000	19.29976	pg	-4	15	
Heptachlor	B	10189	8139.4	20.00000	15.97686	pg	**-20**	15	c- ***
Aldrin	B	10367	10084	20.00000	19.45396	pg	-3	15	
Heptachlor epoxide	B	9434.8	9231.0	20.00000	19.56792	pg	-2	15	
gamma-Chlordane	B	9458.8	9365.5	20.00000	19.80269	pg	-1	15	
alpha-Chlordane	B	9025.5	9023.7	20.00000	19.99603	pg	0	15	
4,4'-DDE	B	9443.1	9475.8	40.00000	40.13870	pg	0	15	
Endosulfan I	B	8448.9	8534.6	20.00000	20.20278	pg	1	15	
Dieldrin	B	9371.2	9527.2	40.00000	40.66559	pg	2	15	
Endrin	B	7490.4	5375.8	40.00000	28.70775	pg	**-28**	15	c- ***
4,4'-DDD	B	7055.2	8668.9	40.00000	49.14866	pg	**23**	15	c+ ***
Endosulfan II	B	7832.0	8214.3	40.00000	41.95251	pg	5	15	
4,4'-DDT	B	7266.6	4967.4	40.00000	27.34369	pg	**-32**	15	c- ***
Methoxychlor	B	2973.2	2254.6	200.0000	151.6604	pg	**-24**	15	c- ***
Endosulfan sulfate	B	6769.6	7014.5	40.00000	41.44704	pg	4	15	
Endrin ketone	B	8101.3	9660.8	40.00000	47.69961	pg	**19**	15	c+ ***
TCMX	B	7933.0	8237.6	40.00000	41.53560	pg	4	15	
Decachlorobiphenyl	B	5540.7	5580.8	40.00000	40.28905	pg	1	15	
Average EPA 8081A	A		(count=22)				3	15	
Average EPA 8081A	B		(count=22)				9	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Instid : GC21 Run Name : pest_3 IDF : 1.0
Seqnum : 244515047081 Filename : 357_081 Injected : 24-DEC-2004 14:25
Calnum : 244513975001 Caldate : 21-DEC-2004 Caltype :
Standards: 04WS2051

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
alpha-BHC	A	12438	13419	10.00000	10.78897	pg	8	15	
gamma-BHC	A	11103	11997	10.00000	10.80508	pg	8	15	
beta-BHC	A	4645.5	5117.5	10.00000	11.01612	pg	10	15	
delta-BHC	A	11026	11612	10.00000	10.53110	pg	5	15	
Heptachlor	A	10296	10802	10.00000	10.49130	pg	5	15	
Aldrin	A	10214	10827	10.00000	10.60030	pg	6	15	
Heptachlor epoxide	A	9204.1	9883.8	10.00000	10.73852	pg	7	15	
gamma-Chlordane	A	9209.9	9747.0	10.00000	10.58313	pg	6	15	
alpha-Chlordane	A	8728.3	9304.4	10.00000	10.66000	pg	7	15	
4,4'-DDE	A	8863.2	8944.1	20.00000	20.18258	pg	1	15	
Endosulfan I	A	8185.0	8822.3	10.00000	10.77866	pg	8	15	
Dieldrin	A	9310.1	9532.5	20.00000	20.47771	pg	2	15	
Endrin	A	7154.1	7715.7	20.00000	21.57007	pg	8	15	
4,4'-DDD	A	6745.5	7238.5	20.00000	21.46148	pg	7	15	
Endosulfan II	A	7116.9	7644.6	20.00000	21.48295	pg	7	15	
4,4'-DDT	A	6060.7	6245.3	20.00000	20.60923	pg	3	15	
Methoxychlor	A	2672.5	2862.6	100.0000	107.1111	pg	7	15	
Endosulfan sulfate	A	6082.8	6489.8	20.00000	21.33827	pg	7	15	
Endrin ketone	A	6700.2	7690.4	20.00000	22.95564	pg	15	15	
TCMX	A	7652.1	8365.3	20.00000	21.86388	pg	9	15	
Decachlorobiphenyl	A	4129.6	4596.6	20.00000	22.26178	pg	11	15	rsd ***
alpha-BHC	B	13022	12860	10.00000	9.875241	pg	-1	15	
gamma-BHC	B	11621	11360	10.00000	9.775250	pg	-2	15	
beta-BHC	B	4756.5	4897.9	10.00000	10.29731	pg	3	15	
delta-BHC	B	11655	11463	10.00000	9.834859	pg	-2	15	
Heptachlor	B	10189	8058.9	10.00000	7.909366	pg	**-21**	15	c- ***
Aldrin	B	10367	10361	10.00000	9.993750	pg	0	15	
Heptachlor epoxide	B	9434.8	9392.7	10.00000	9.955409	pg	0	15	
gamma-Chlordane	B	9458.8	9525.4	10.00000	10.07039	pg	1	15	
alpha-Chlordane	B	9025.5	9152.9	10.00000	10.14116	pg	1	15	
4,4'-DDE	B	9443.1	9189.0	20.00000	19.46189	pg	-3	15	
Endosulfan I	B	8448.9	8684.8	10.00000	10.27911	pg	3	15	
Dieldrin	B	9371.2	9309.0	20.00000	19.86716	pg	-1	15	
Endrin	B	7490.4	5455.6	20.00000	14.56706	pg	**-27**	15	c- ***
4,4'-DDD	B	7055.2	8494.1	20.00000	24.07895	pg	**20**	15	c+ ***
Endosulfan II	B	7832.0	8260.9	20.00000	21.09526	pg	5	15	
4,4'-DDT	B	7266.6	4499.4	20.00000	12.38378	pg	**-38**	15	c- ***
Methoxychlor	B	2973.2	1969.0	100.0000	66.22596	pg	**-34**	15	c- ***
Endosulfan sulfate	B	6769.6	6934.3	20.00000	20.48658	pg	2	15	
Endrin ketone	B	8101.3	9076.8	20.00000	22.40824	pg	12	15	
TCMX	B	7933.0	8193.0	20.00000	20.65539	pg	3	15	
Decachlorobiphenyl	B	5540.7	5507.5	20.00000	19.88016	pg	-1	15	
Average EPA 8081A	A		(count=22)				7	15	
Average EPA 8081A	B		(count=22)				8	15	

+=high bias -=low bias c=CCV rsd=ICAL %RSD failure
Page 1 of 1

SEQUENCE SUMMARY FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Sequence: 244513975 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 21-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
003	356_003	X	hex			21-DEC-2004 20:19	1.0						
004	356_004	X	hex			21-DEC-2004 20:48	1.0						
005	356_005	PEM				21-DEC-2004 21:17	1.0		1			1	
006	356_006	X	hex			21-DEC-2004 21:46	1.0						
007	356_007	ICAL	pest_1			21-DEC-2004 22:15	1.0					2	
008	356_008	ICAL	pest_2			21-DEC-2004 22:44	1.0					3	
009	356_009	ICAL	pest_3			21-DEC-2004 23:13	1.0					4	
010	356_010	ICAL	pest_4			21-DEC-2004 23:42	1.0					5	
011	356_011	ICAL	pest_5			22-DEC-2004 00:12	1.0					6	
012	356_012	ICAL	pest_6			22-DEC-2004 00:41	1.0					7	
013	356_013	ICAL	pest_7			22-DEC-2004 01:10	1.0					8	
015	356_015	X	icv			22-DEC-2004 02:08	1.0					9	
016	356_016	ICV				22-DEC-2004 02:37	1.0		1			9	
017	356_017	X	icv			22-DEC-2004 03:06	1.0					10	
019	356_019	ICAL	pest_7			22-DEC-2004 12:54	1.0					8	

Stds used: 1=04WS2193 2=04WS1628 3=04WS1629 4=04WS2051 5=04WS2344 6=04WS2053 7=04WS1634 8=04WS1635 9=04WS2099 10=04WS2392

SEQUENCE SUMMARY FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Sequence: 244515047 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 22-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	357_001	PEM				22-DEC-2004 16:07	1.0	1.0			1	1	1:DDT44=134.665
002	357_002	X	ccv			22-DEC-2004 16:36	1.0					2	
003	357_003	X	ccv			22-DEC-2004 17:05	1.0					2	
004	357_004	CCV	pest_4			22-DEC-2004 17:46	1.0	1.0	1		1	2	
006	357_006	BLANK	QC277208	97720	Soil	22-DEC-2004 19:52	1.0	0.6754	3		1		
007	357_007	BLANK	QC277053	97682	Soil	22-DEC-2004 20:21	1.0	0.6716	3		1		
008	357_008	LCS	QC277054	97682	Soil	22-DEC-2004 20:51	1.0	0.668	3		1		
009	357_009	LCS	QC277209	97720	Soil	22-DEC-2004 21:20	1.0	0.6662	3		1		
010	357_010	SAMPLE	176716-006	97720	Soil	22-DEC-2004 21:49	1.0	0.6678	3		1		
011	357_011	SAMPLE	176716-007	97720	Soil	22-DEC-2004 22:18	1.0	0.6698	3		1		
012	357_012	SAMPLE	176744-001	97682	Soil	22-DEC-2004 22:47	2.0						
013	357_013	SAMPLE	176744-003	97682	Soil	22-DEC-2004 23:16	2.0						
014	357_014	SAMPLE	176744-004	97682	Soil	22-DEC-2004 23:45	2.0						
015	357_015	MSS	176744-005	97682	Soil	23-DEC-2004 00:14	1.0						
017	357_017	PEM				23-DEC-2004 01:12	1.0	1.0			1	1	1:DDT44=105.212
018	357_018	CCV	pest_3			23-DEC-2004 01:41	1.0	1.0	3		1	3	
019	357_019	X	ccv			23-DEC-2004 02:11	1.0					3	
020	357_020	X	ccv			23-DEC-2004 02:40	1.0					4	
021	357_021	X	pem			23-DEC-2004 03:09	1.0					1	
023	357_023	SAMPLE	176696-003	97720	Soil	23-DEC-2004 04:07	1.0	0.6682	3		1		
024	357_024	SAMPLE	176696-006	97720	Soil	23-DEC-2004 04:36	5.0	0.6631	3	1	1		
025	357_025	SAMPLE	176696-010	97720	Soil	23-DEC-2004 05:05	1.0	0.6676	3		1		
026	357_026	SAMPLE	176696-014	97720	Soil	23-DEC-2004 05:34	1.0	0.6662	4		1		1:DDE44=205.055
027	357_027	SAMPLE	176696-018	97720	Soil	23-DEC-2004 06:03	2.0	0.6757	5		1		2:DDE44=221.619
028	357_028	SAMPLE	176696-021	97720	Soil	23-DEC-2004 06:32	1.0	0.6667	3		1		
029	357_029	SAMPLE	176696-025	97720	Soil	23-DEC-2004 07:02	2.0	0.6689	3		1		
030	357_030	SAMPLE	176696-028	97720	Soil	23-DEC-2004 07:31	2.0	0.6698	3		1		
031	357_031	SAMPLE	176712-003	97720	Soil	23-DEC-2004 08:00	5.0	0.6718	3		1		
032	357_032	SAMPLE	176712-006	97720	Soil	23-DEC-2004 08:29	1.0	0.6623	3		1		
034	357_034	PEM				23-DEC-2004 09:27	1.0	1.0			1	1	
035	357_035	X	ccv			23-DEC-2004 09:56	1.0					2	

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053

SEQUENCE SUMMARY FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Sequence: 244515047 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 22-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
036	357_036	CCV	pest_4			23-DEC-2004 10:25	1.0	1.0	1		1	2	
039	357_039	SAMPLE	176744-001	97682	Soil	23-DEC-2004 12:12	2.0	0.664	1		1		
040	357_040	SAMPLE	176744-003	97682	Soil	23-DEC-2004 12:41	2.0	0.6684	1		1		
041	357_041	SAMPLE	176744-004	97682	Soil	23-DEC-2004 13:10	2.0	0.6689	1		1		
042	357_042	MSS	176744-005	97682	Soil	23-DEC-2004 13:39	1.0	0.6671	1		1		
043	357_043	MS	QC277055	97682	Soil	23-DEC-2004 14:27	1.0	0.6623	2		1		
044	357_044	MSD	QC277056	97682	Soil	23-DEC-2004 14:56	1.0	0.672	2		1		
046	357_046	SAMPLE	176696-014	97720	Soil	23-DEC-2004 16:45	2.0	0.6662	1		1		
047	357_047	SAMPLE	176696-018	97720	Soil	23-DEC-2004 17:14	5.0	0.6757	1		1		
049	357_049	PEM				23-DEC-2004 22:55	1.0	1.0			1	1	1:DDT44=119.545
050	357_050	CCV	pest_3			23-DEC-2004 23:24	1.0	1.0	2		1	3	
051	357_051	X	ccv			23-DEC-2004 23:53	1.0					3	
052	357_052	X	ccv			24-DEC-2004 00:22	1.0					4	
055	357_055	BLANK	QC276883	97633	Water	24-DEC-2004 01:50	1.0	0.01	1		1		
056	357_056	LCS	QC276884	97633	Water	24-DEC-2004 02:19	1.0	0.01	2		1		
057	357_057	SAMPLE	176758-001	97720	Soil	24-DEC-2004 02:48	5.0	0.672	1	1	1		
058	357_058	SAMPLE	176758-003	97720	Soil	24-DEC-2004 03:17	1.0	0.6653	1		1		
059	357_059	SAMPLE	176758-005	97720	Soil	24-DEC-2004 03:46	10.0	0.666			1		
060	357_060	SAMPLE	176758-008	97720	Soil	24-DEC-2004 04:15	2.0	0.6687	1		1		
061	357_061	SAMPLE	176758-010	97720	Soil	24-DEC-2004 04:44	1.0	0.6623	1		1		
062	357_062	SAMPLE	176758-012	97720	Soil	24-DEC-2004 05:13	10.0	0.6718			1		
064	357_064	PEM				24-DEC-2004 06:11	1.0	1.0			1	1	1:DDT44=116.563
065	357_065	X	ccv			24-DEC-2004 06:40	1.0					2	
066	357_066	CCV	pest_4			24-DEC-2004 07:09	1.0	1.0	1		1	2	
069	357_069	SAMPLE	176662-005	97633	Water	24-DEC-2004 08:37	1.0	0.009524	5		1		
070	357_070	SAMPLE	176662-006	97633	Water	24-DEC-2004 09:06	1.0	0.009524	5	1	1		
071	357_071	SAMPLE	176662-007	97633	Water	24-DEC-2004 09:35	1.0	0.009901	5	1	1		
072	357_072	SAMPLE	176705-001	97633	Water	24-DEC-2004 10:04	1.0	0.009434	5		1		
073	357_073	SAMPLE	176705-002	97633	Water	24-DEC-2004 10:33	1.0	0.009434	5		1		
074	357_074	SAMPLE	176705-003	97633	Water	24-DEC-2004 11:02	1.0	0.009434	5	1	1		
075	357_075	SAMPLE	176705-004	97633	Water	24-DEC-2004 11:31	1.0	0.009709	5		1		

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053

SEQUENCE SUMMARY FOR 176662 8081 Water
Curtis & Tompkins Laboratories

Sequence: 244515047 Instrument: GC21 Gas Chromatograph #21 ECD Begun: 22-DEC-2004
Analytical Method: EPA 8081A SOP Version: 8081_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
076	357_076	SAMPLE	176705-008	97633	Water	24-DEC-2004 12:00	1.0	0.009901	5		1		
077	357_077	SAMPLE	176723-001	97633	Water	24-DEC-2004 12:29	1.0	0.009804	5		1		
078	357_078	SAMPLE	176723-002	97633	Water	24-DEC-2004 12:58	1.0	0.009524	5	1	1		
080	357_080	PEM				24-DEC-2004 13:56	1.0	1.0			1	1	
081	357_081	CCV	pest_3			24-DEC-2004 14:25	1.0	1.0	6		1	3	
082	357_082	X	ccv			24-DEC-2004 14:54	1.0					3	
083	357_083	X	ccv			24-DEC-2004 15:23	1.0					4	
084	357_084	X	pem			24-DEC-2004 15:52	1.0	1.0			1	1	
086	357_086	SAMPLE	176723-003	97633	Water	24-DEC-2004 16:51	1.0	0.009709	5		1		
087	357_087	SAMPLE	176726-001	97633	Water	24-DEC-2004 17:20	1.0	0.009524	5		1		
088	357_088	SAMPLE	176726-002	97633	Water	24-DEC-2004 17:49	1.0	0.009524	5	1	1		
089	357_089	SAMPLE	176726-003	97633	Water	24-DEC-2004 18:18	1.0	0.009804	5		1		
090	357_090	MSS	176726-004	97633	Water	24-DEC-2004 18:47	1.0	0.009804	5		1		
091	357_091	SAMPLE	176726-005	97633	Water	24-DEC-2004 19:16	1.0	0.009524	11	4	1		5:BHCBET=534.468
092	357_092	SAMPLE	176726-006	97633	Water	24-DEC-2004 19:45	1.0	0.009524	5		1		
093	357_093	SAMPLE	176734-003	97633	Water	24-DEC-2004 20:14	1.0	0.009524	5		1		
094	357_094	MS	QC276885	97633	Water	24-DEC-2004 20:43	1.0	0.009804	7		1		
095	357_095	MSD	QC276886	97633	Water	24-DEC-2004 21:12	1.0	0.009804	7		1		
097	357_097	PEM				24-DEC-2004 22:11	1.0	1.0			1	1	1:DDT44=100.459
098	357_098	CCV	pest_4			24-DEC-2004 22:40	1.0	1.0	7		1	2	
099	357_099	X	ccv			24-DEC-2004 23:09	1.0					2	

Stds used: 1=04WS2193 2=04WS2344 3=04WS2051 4=04WS2053

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 8081 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
176662-005	alpha-BHC	GC21	A	12/24/04 08:37
176662-005	beta-BHC	GC21	A	12/24/04 08:37
176662-005	gamma-BHC	GC21	A	12/24/04 08:37
176662-005	delta-BHC	GC21	A	12/24/04 08:37
176662-005	Heptachlor	GC21	A	12/24/04 08:37
176662-005	Aldrin	GC21	A	12/24/04 08:37
176662-005	Heptachlor epoxide	GC21	A	12/24/04 08:37
176662-005	Endosulfan I	GC21	A	12/24/04 08:37
176662-005	Dieldrin	GC21	A	12/24/04 08:37
176662-005	4,4'-DDE	GC21	A	12/24/04 08:37
176662-005	Endrin	GC21	A	12/24/04 08:37
176662-005	Endosulfan II	GC21	A	12/24/04 08:37
176662-005	Endosulfan sulfate	GC21	A	12/24/04 08:37
176662-005	4,4'-DDD	GC21	A	12/24/04 08:37
176662-005	4,4'-DDT	GC21	A	12/24/04 08:37
176662-005	alpha-Chlordane	GC21	A	12/24/04 08:37
176662-005	gamma-Chlordane	GC21	A	12/24/04 08:37
176662-005	Methoxychlor	GC21	A	12/24/04 08:37
176662-005	Endrin ketone	GC21	A	12/24/04 08:37
176662-005	Toxaphene	GC21	A	12/24/04 08:37
176662-005	TCMX	GC21	A	12/24/04 08:37
176662-005	Decachlorobiphenyl	GC21	A	12/24/04 08:37
176662-006	alpha-BHC	GC21	A	12/24/04 09:06
176662-006	beta-BHC	GC21	A	12/24/04 09:06
176662-006	gamma-BHC	GC21	A	12/24/04 09:06
176662-006	delta-BHC	GC21	A	12/24/04 09:06
176662-006	Heptachlor	GC21	A	12/24/04 09:06
176662-006	Aldrin	GC21	A	12/24/04 09:06
176662-006	Heptachlor epoxide	GC21	A	12/24/04 09:06
176662-006	Endosulfan I	GC21	A	12/24/04 09:06
176662-006	Dieldrin	GC21	A	12/24/04 09:06
176662-006	4,4'-DDE	GC21	A	12/24/04 09:06
176662-006	Endrin	GC21	A	12/24/04 09:06
176662-006	Endosulfan II	GC21	A	12/24/04 09:06
176662-006	Endosulfan sulfate	GC21	A	12/24/04 09:06
176662-006	4,4'-DDD	GC21	A	12/24/04 09:06
176662-006	4,4'-DDT	GC21	A	12/24/04 09:06
176662-006	alpha-Chlordane	GC21	A	12/24/04 09:06
176662-006	gamma-Chlordane	GC21	A	12/24/04 09:06
176662-006	Methoxychlor	GC21	A	12/24/04 09:06
176662-006	Endrin ketone	GC21	A	12/24/04 09:06
176662-006	Toxaphene	GC21	A	12/24/04 09:06
176662-006	TCMX	GC21	A	12/24/04 09:06
176662-006	Decachlorobiphenyl	GC21	A	12/24/04 09:06
176662-007	alpha-BHC	GC21	A	12/24/04 09:35
176662-007	beta-BHC	GC21	A	12/24/04 09:35
176662-007	gamma-BHC	GC21	A	12/24/04 09:35

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 8081 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
176662-007	delta-BHC	GC21	A	12/24/04 09:35
176662-007	Heptachlor	GC21	A	12/24/04 09:35
176662-007	Aldrin	GC21	A	12/24/04 09:35
176662-007	Heptachlor epoxide	GC21	A	12/24/04 09:35
176662-007	Endosulfan I	GC21	A	12/24/04 09:35
176662-007	Dieldrin	GC21	A	12/24/04 09:35
176662-007	4,4'-DDE	GC21	A	12/24/04 09:35
176662-007	Endrin	GC21	A	12/24/04 09:35
176662-007	Endosulfan II	GC21	A	12/24/04 09:35
176662-007	Endosulfan sulfate	GC21	A	12/24/04 09:35
176662-007	4,4'-DDD	GC21	A	12/24/04 09:35
176662-007	4,4'-DDT	GC21	A	12/24/04 09:35
176662-007	alpha-Chlordane	GC21	A	12/24/04 09:35
176662-007	gamma-Chlordane	GC21	A	12/24/04 09:35
176662-007	Methoxychlor	GC21	A	12/24/04 09:35
176662-007	Endrin ketone	GC21	A	12/24/04 09:35
176662-007	Toxaphene	GC21	A	12/24/04 09:35
176662-007	TCMX	GC21	A	12/24/04 09:35
176662-007	Decachlorobiphenyl	GC21	A	12/24/04 09:35
QC276883	alpha-BHC	GC21	B	12/24/04 01:50
QC276883	beta-BHC	GC21	B	12/24/04 01:50
QC276883	gamma-BHC	GC21	B	12/24/04 01:50
QC276883	delta-BHC	GC21	B	12/24/04 01:50
QC276883	Heptachlor	GC21	B	12/24/04 01:50
QC276883	Aldrin	GC21	B	12/24/04 01:50
QC276883	Heptachlor epoxide	GC21	B	12/24/04 01:50
QC276883	Endosulfan I	GC21	B	12/24/04 01:50
QC276883	Dieldrin	GC21	B	12/24/04 01:50
QC276883	4,4'-DDE	GC21	B	12/24/04 01:50
QC276883	Endrin	GC21	B	12/24/04 01:50
QC276883	Endosulfan II	GC21	B	12/24/04 01:50
QC276883	Endosulfan sulfate	GC21	B	12/24/04 01:50
QC276883	4,4'-DDD	GC21	B	12/24/04 01:50
QC276883	4,4'-DDT	GC21	B	12/24/04 01:50
QC276883	alpha-Chlordane	GC21	B	12/24/04 01:50
QC276883	gamma-Chlordane	GC21	B	12/24/04 01:50
QC276883	Methoxychlor	GC21	B	12/24/04 01:50
QC276883	Endrin ketone	GC21	B	12/24/04 01:50
QC276883	Toxaphene	GC21	B	12/24/04 01:50
QC276883	TCMX	GC21	B	12/24/04 01:50
QC276883	Decachlorobiphenyl	GC21	B	12/24/04 01:50
QC276884	gamma-BHC	GC21	B	12/24/04 02:19
QC276884	Heptachlor	GC21	B	12/24/04 02:19
QC276884	Aldrin	GC21	B	12/24/04 02:19
QC276884	Dieldrin	GC21	B	12/24/04 02:19
QC276884	Endrin	GC21	B	12/24/04 02:19
QC276884	4,4'-DDT	GC21	B	12/24/04 02:19

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 8081 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC276884	TCMX	GC21	B	12/24/04 02:19
QC276884	Decachlorobiphenyl	GC21	B	12/24/04 02:19
QC276885	gamma-BHC	GC21	A	12/24/04 20:43
QC276885	Heptachlor	GC21	A	12/24/04 20:43
QC276885	Aldrin	GC21	A	12/24/04 20:43
QC276885	Dieldrin	GC21	A	12/24/04 20:43
QC276885	Endrin	GC21	A	12/24/04 20:43
QC276885	4,4'-DDT	GC21	A	12/24/04 20:43
QC276885	TCMX	GC21	A	12/24/04 20:43
QC276885	Decachlorobiphenyl	GC21	A	12/24/04 20:43
QC276886	gamma-BHC	GC21	A	12/24/04 21:12
QC276886	Heptachlor	GC21	A	12/24/04 21:12
QC276886	Aldrin	GC21	A	12/24/04 21:12
QC276886	Dieldrin	GC21	A	12/24/04 21:12
QC276886	Endrin	GC21	A	12/24/04 21:12
QC276886	4,4'-DDT	GC21	A	12/24/04 21:12
QC276886	TCMX	GC21	A	12/24/04 21:12
QC276886	Decachlorobiphenyl	GC21	A	12/24/04 21:12

Curtis & Tompkins Laboratories Sample Preparation Summary 20-DEC-2004 15:32

Batch Number : 97633
Date Extracted: 19-DEC-2004
Extracted by : Jennifer R Dell
Prep Method : 3520C

Analysis : 8081
Bgroup : N/A
Units : ml
Clean-up :

Spike #1 ID : 04WS2225B
Spike #2 ID : 04SS445H
Spike #3 ID :
SOP Version : 8081w_rv14

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176662-005		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
176662-006		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
176662-007		Treadwell & Rollo	Water	1010	ml	10	0.009901	1	7	.02	0		8081		
176705-001		Treadwell & Rollo	Water	1060	ml	10	0.009434	1	7	.02	0		8081		
176705-002		Treadwell & Rollo	Water	1060	ml	10	0.009434	1	7	.02	0		8081		
176705-003		Treadwell & Rollo	Water	1060	ml	10	0.009434	1	7	.02	0		8081		
176705-004		Treadwell & Rollo	Water	1030	ml	10	0.009709	1	7	.02	0		8081		
176705-008		Treadwell & Rollo	Water	1010	ml	10	0.009901	1	7	.02	0		8081		
176723-001		Treadwell & Rollo	Water	1020	ml	10	0.009804	1	7	.02	0		8081		
176723-002		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
176723-003		Treadwell & Rollo	Water	1030	ml	10	0.009709	1	7	.02	0		8081		
176726-001		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
176726-002		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
176726-003		Treadwell & Rollo	Water	1020	ml	10	0.009804	1	7	.02	0		8081		
176726-004		Treadwell & Rollo	Water	1020	ml	10	0.009804	1	7	.02	0		8081		mss
176726-005		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
176726-006		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
176734-003		Treadwell & Rollo	Water	1050	ml	10	0.009524	1	7	.02	0		8081		
QC276883	MB		Water	1000	ml	10	0.010000	1		.02	0		8081		
QC276884	LCS		Water	1000	ml	10	0.010000	1		.02	.025		8081		
QC276885	MS	of 176726-004	Water	1020	ml	10	0.009804	1	7	.02	.025		8081		
QC276886	MSD	of 176726-004	Water	1020	ml	10	0.009804	1	7	.02	.025		8081		

Prep Chemist: Jennifer Dell Reviewed By: [illegible] Date: 12/20/04

Relinquished By: [illegible] Received By: _____ Date: _____

Curtis & Tompkins, Ltd

8081 WATER PREP LOG

BK1996

Page 29

LIMS Batch No: 97633
LIMS Analysis: 8081
Extracted by: JRD
Date Extracted: 12/19/04

Extraction Method:
☐ EPA 3510c sep. funnel
☒ EPA 3520c cont. L/L
☐

Cleanup Method (if needed):
☐ EPA 3640a GPC
☐ EPA 3620b Florisil
☐

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
1706062-005 H	1050	7	10.0		
-006 F	1050				
-007 H	1010				
1706705-001 J	1000				
-002 K	1060				
-003 K	1000				
-004 K	1030				
-008 H	1010				
1706723-001 F	1020				
-002 G	1050				
-003 F	1030				
1706726-001 G	1050				
-002 G	1050				
-003 J	1030				
-004 Z	1020				MSS
-005 H	1030				
-006 J	1050				
1706734-003 X	1050				
MB BC3706883	1000				
LCS 84	1000				
MS 85	1020	7		1706726-004 X	
MSD 86	1020	7		-004 Y	

CW 12/20/04

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.02 mL of surrogate solution was added to all samples	OW522025B	JRD 12/19/04
0.025 mL of matrix spiking solution was added to all spikes	045445H	
☒ Samples continuously extracted with about 450 mL of CH_2Cl_2	EM4302	
Extraction Start Time:	1430	
Extraction End Time:	1030	12/20/04
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2	NA	
Extracts filtered through baked, CH_2Cl_2 rinsed ~~powdered~~ Na_2SO_4	0000135489	
Exchanged 2x with Hexane	BTCM623	
Concentrated: ☒ to volumes as noted above ☐ to clean-up volume		
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Florisil	NA	

Jennifer Dell 12/19/04
Extraction Chemist Date

Contined from Page —

Cindy Dee 12/20/04

Curtis & Tompkins Laboratories
MDL Summary for EPA 8081A Water 3520

Analyte	Units	GC14B A	GC14B B	GC16 A	GC16 B	GC21 A	GC21 B	GC23 A	GC23 B
gamma-BHC	ug/L	03/22/04 0.0041	03/22/04 0.0039	03/17/04 0.0088	03/17/04 0.0097	04/27/04 0.0075	04/27/04 0.0097	07/01/04 0.0024	07/01/04 0.0043
Heptachlor	ug/L	03/22/04 0.0084	03/22/04 0.0075	03/17/04 0.0036	03/17/04 0.0029	04/27/04 0.014	04/27/04 0.0080	07/01/04 0.0037	07/01/04 0.0046
Aldrin	ug/L	03/22/04 0.0079	03/22/04 0.0076	03/17/04 0.0030	03/17/04 0.0028	04/27/04 0.0083	04/27/04 0.0064	07/01/04 0.0046	07/01/04 0.0064
Dieldrin	ug/L	03/22/04 0.0080	03/22/04 0.0082	03/17/04 0.017	03/17/04 0.017	04/27/04 0.0069	04/27/04 0.017	07/01/04 0.0059	07/01/04 0.0098
Endrin	ug/L	03/22/04 0.017	03/22/04 0.018	03/17/04 0.019	03/17/04 0.019	04/27/04 0.016	04/27/04 0.019	07/01/04 0.0077	07/01/04 0.014
4,4'-DDT	ug/L	03/22/04 0.014	03/22/04 0.012	03/17/04 0.0082	03/17/04 0.0091	04/27/04 0.048	04/27/04 0.011	07/01/04 0.0036	07/01/04 0.0090
alpha-BHC	ug/L	03/22/04 0.0041	03/22/04 0.0045	03/17/04 0.0086	03/17/04 0.0095	04/27/04 0.0028	04/27/04 0.0079	07/01/04 0.0023	07/01/04 0.0037
beta-BHC	ug/L	03/22/04 0.0045	03/22/04 0.030	03/17/04 0.010	03/17/04 0.024	04/27/04 0.0052	04/27/04 0.045	07/01/04 0.0023	07/01/04 0.043
delta-BHC	ug/L	03/22/04 0.0038	03/22/04 0.0040	03/17/04 0.0084	03/17/04 0.0095	04/27/04 0.0032	04/27/04 0.0090	07/01/04 0.0019	07/01/04 0.0044
Heptachlor epoxide	ug/L	03/22/04 0.0043	03/22/04 0.0049	03/17/04 0.0098	03/17/04 0.0094	04/27/04 0.0035	04/27/04 0.0085	07/01/04 0.0027	07/01/04 0.0052
Heptachlor epoxide B	ug/L			04/01/03 0.0087	04/01/03 0.011				
Heptachlor epoxide A	ug/L			04/01/03 0.0087	04/01/03 0.011				
gamma-Chlordane	ug/L	03/22/04 0.0053	03/22/04 0.0045	03/17/04 0.0076	03/17/04 0.0073	04/27/04 0.0097	04/27/04 0.0070	07/01/04 0.0022	07/01/04 0.0038
alpha-Chlordane	ug/L	03/22/04 0.0048	03/22/04 0.0043	03/17/04 0.0084	03/17/04 0.0079	04/27/04 0.0039	04/27/04 0.0069	07/01/04 0.0023	07/01/04 0.0038
Endosulfan I	ug/L	03/22/04 0.0055	03/22/04 0.0041	03/17/04 0.0085	03/17/04 0.0093	04/27/04 0.0031	04/27/04 0.0078	07/01/04 0.0025	07/01/04 0.0050
4,4'-DDE	ug/L	03/22/04 0.0099	03/22/04 0.0091	03/17/04 0.014	03/17/04 0.013	04/27/04 0.0063	04/27/04 0.014	07/01/04 0.0045	07/01/04 0.0080
Endosulfan II	ug/L	03/22/04 0.0087	03/22/04 0.0089	03/17/04 0.017	03/17/04 0.015	04/27/04 0.0068	04/27/04 0.015	07/01/04 0.0060	07/01/04 0.011
Endosulfan sulfate	ug/L	03/22/04 0.010	03/22/04 0.011	03/17/04 0.014	03/17/04 0.012	04/27/04 0.0095	04/27/04 0.018	07/01/04 0.0052	07/01/04 0.011
4,4'-DDD	ug/L	03/22/04 0.0090	03/22/04 0.0083	03/17/04 0.016	03/17/04 0.015	04/27/04 0.0096	04/27/04 0.012	07/01/04 0.0061	07/01/04 0.012
Endrin aldehyde	ug/L	03/22/04 0.0092	03/22/04 0.0094	03/17/04 0.015	03/17/04 0.013	04/27/04 0.0073	04/27/04 0.023	07/01/04 0.0055	07/01/04 0.016
Chlordane (Technical)	ug/L	03/11/04 0.27	03/11/04 0.24	02/19/04 0.45	02/19/04 0.40	02/07/04 0.14	02/07/04 0.26	09/07/04 0.15	09/07/04 0.17
Methoxychlor	ug/L	03/22/04 0.080	03/22/04 0.085	03/17/04 0.059	03/17/04 0.072	04/27/04 0.061	04/27/04 0.12	07/01/04 0.023	07/01/04 0.058
Endrin ketone	ug/L	03/22/04 0.0076	03/22/04 0.0072	03/17/04 0.015	03/17/04 0.012	04/27/04 0.0086	04/27/04 0.018	07/01/04 0.0068	07/01/04 0.013
Toxaphene	ug/L	01/31/04 0.63	01/31/04 0.37	01/23/04 0.44	01/23/04 0.31	01/31/04 0.76	01/31/04 0.19	06/23/04 0.58	06/23/04 0.50
TCMX	ug/L					09/20/03 0.015	09/20/03 0.018		
Decachlorobiphenyl	ug/L					09/20/03 0.016	09/20/03 0.026		

POLYAROMATIC HYDROCARBONS

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF4GW103	Batch#:	97619
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/17/04
Diln Fac:	1.000	Analyzed:	12/20/04

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.01
Fluoranthene	ND	0.39	0.03
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	95	65-135
1-Methylnaphthalene (F)	98	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF4GW104	Batch#:	97619
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/17/04
Diln Fac:	1.000	Analyzed:	12/20/04

Analyte	Result	RL	MDL
Naphthalene	ND	0.97	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.97	
Fluorene	ND	0.97	
Phenanthrene	ND	0.49	
Anthracene	ND	0.49	0.01
Fluoranthene	ND	0.39	0.03
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	65-135
1-Methylnaphthalene (F)	91	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF4GW105	Batch#:	97619
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/17/04
Diln Fac:	1.000	Analyzed:	12/20/04

Analyte	Result	RL	MDL
Naphthalene	ND	0.94	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.94	
Fluorene	ND	0.94	
Phenanthrene	ND	0.47	
Anthracene	ND	0.47	0.01
Fluoranthene	ND	0.38	0.03
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.09	
Chrysene	ND	0.09	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.09	
Benzo(a)pyrene	ND	0.09	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	96	65-135
1-Methylnaphthalene (F)	99	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Field ID:	LF4GW106	Batch#:	97619
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/17/04
Diln Fac:	1.000	Analyzed:	12/22/04

Analyte	Result	RL	MDL
Naphthalene	ND	0.96	
Acenaphthylene	ND	1.9	
Acenaphthene	ND	0.96	
Fluorene	ND	0.96	
Phenanthrene	ND	0.48	
Anthracene	ND	0.48	0.01
Fluoranthene	ND	0.38	0.03
Pyrene	ND	0.19	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.19	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.19	
Benzo(g,h,i)perylene	ND	0.19	
Indeno(1,2,3-cd)pyrene	ND	0.13	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	108	65-135
1-Methylnaphthalene (F)	111	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276846	Batch#:	97619
Matrix:	Water	Prepared:	12/17/04
Units:	ug/L	Analyzed:	12/20/04

Analyte	Result	RL	MDL
Naphthalene	ND	1.0	
Acenaphthylene	ND	2.0	
Acenaphthene	ND	1.0	
Fluorene	ND	1.0	
Phenanthrene	ND	0.50	
Anthracene	ND	0.50	0.01
Fluoranthene	ND	0.40	0.03
Pyrene	ND	0.20	
Benzo(a)anthracene	ND	0.10	
Chrysene	ND	0.10	
Benzo(b)fluoranthene	ND	0.20	
Benzo(k)fluoranthene	ND	0.10	
Benzo(a)pyrene	ND	0.10	
Dibenz(a,h)anthracene	ND	0.20	
Benzo(g,h,i)perylene	ND	0.20	
Indeno(1,2,3-cd)pyrene	ND	0.14	

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	107	65-135
1-Methylnaphthalene (F)	104	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polynuclear Aromatics by HPLC

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8310
Matrix:	Water	Batch#:	97619
Units:	ug/L	Prepared:	12/17/04
Diln Fac:	1.000	Analyzed:	12/20/04

Type: BS Lab ID: QC276847

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	10.85	108	50-135
Fluorene	2.000	2.190	110	65-135
Pyrene	1.000	1.058	106	65-135
Benzo(a)pyrene	1.000	1.145	115	65-135

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	108	65-135
1-Methylnaphthalene (F)	106	65-135

Type: BSD Lab ID: QC276848

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	8.470	85	50-135	25	35
Fluorene	2.000	1.752	88	65-135	22	35
Pyrene	1.000	0.8741	87	65-135	19	35
Benzo(a)pyrene	1.000	0.9253	93	65-135	21	35

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	82	65-135
1-Methylnaphthalene (F)	84	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: HPLC02 High Pressure Liquid Chromatograph #2 Reviewed By: MCH
Calnum: 274483056001 Name: Type: (normal) Date: 30-NOV-2004 13:29 Inj Vol (uL): 10

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	33500006	274483056006		30-NOV-2004 13:29	04WS1765
2	33500007	274483056007		30-NOV-2004 14:00	04WS1766
3	33500008	274483056008		30-NOV-2004 14:30	04WS1767
4	33500009	274483056009		30-NOV-2004 15:01	04WS1768
5	33500010	274483056010		30-NOV-2004 15:32	04WS1769
6	33500011	274483056011		30-NOV-2004 16:02	04WS1770
7	33500012	274483056012		30-NOV-2004 16:33	04WS1771

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Naphthalene	1	0.0086	0.0086	0.0087	0.0085	0.0083	0.0087	0.0081	LINR	R	-244.650	121.9675		ug/L	0.0085	0.999	0.99	20	
Acenaphthylene	1	0.0063	0.0062	0.0061	0.0060	0.0059	0.0063	0.0058	LINR	R	-445.169	170.1992		ug/L	0.0061	0.998	0.99	20	
Acenaphthene	1	0.0034	0.0036	0.0035	0.0033	0.0032	0.0035	0.0032	LINR	R	-280.387	311.3187		ug/L	0.0034	0.998	0.99	20	
Fluorene	1	0.0333	0.0396	0.0401	0.0396	0.0395	0.0419	0.0393	LINR	R	-23.6077	25.22063		ug/L	0.0390	0.999	0.99	20	
Phenanthrene	1	0.1184	0.1169	0.1175	0.1177	0.1172	0.1262	0.1167	LINR	R	-15.0695	8.471391		ug/L	0.1187	0.998	0.99	20	
Anthracene	1	0.2995	0.3059	0.3050	0.3015	0.2954	0.3127		LINR	R	13.19169	3.201388		ug/L	0.3033	0.999	0.99	20	
Fluoranthene	1	0.0306	0.0282	0.0278	0.0266	0.0267	0.0288	0.0267	LINR	R	-35.1697	37.07628		ug/L	0.0279	0.999	0.99	20	
Pyrene	1	0.0246	0.0276	0.0221	0.0194	0.0203	0.0222	0.0205	LINR	R	-20.8808	48.32619		ug/L	0.0224	0.998	0.99	20	
Benzo(a)anthracene	1	0.0659	0.0673	0.0602	0.0625	0.0611	0.0665	0.0611	LINR	R	-18.6877	16.17888		ug/L	0.0635	0.998	0.99	20	
Chrysene	1	0.0817	0.0894	0.0840	0.0844	0.0815	0.0884	0.0817	LINR	R	-20.0655	12.12193		ug/L	0.0844	0.998	0.99	20	
Benzo(b)fluoranthene	1	0.0663	0.0712	0.0694	0.0697	0.0670	0.0718	0.0668	LINR	R	-41.1604	14.84194		ug/L	0.0689	0.999	0.99	20	
Benzo(k)fluoranthene	1	0.0556	0.0599	0.0563	0.0584	0.0560	0.0594	0.0555	LINR	R	-20.9630	17.88385		ug/L	0.0573	0.999	0.99	20	
Benzo(a)pyrene	1	0.0716	0.0604	0.0598	0.0619	0.0568	0.0612	0.0571	LINR	R	-25.7784	17.38546		ug/L	0.0613	0.999	0.99	20	
Dibenz(a,h)anthracene	1	0.0160	0.0161	0.0148	0.0146	0.0140	0.0152	0.0141	LINR	R	-44.2202	70.41035		ug/L	0.0150	0.999	0.99	20	
Benzo(g,h,i)perylene	1	0.0189	0.0275	0.0250	0.0256	0.0244	0.0255	0.0241	LINR	R	-40.5493	41.26225		ug/L	0.0244	0.999	0.99	20	
Indeno(1,2,3-cd)pyrene	1	0.0628	0.0775	0.0757	0.0745	0.0721	0.0759	0.0713	LINR	R	-20.8676	13.92692		ug/L	0.0728	0.999	0.99	20	
1-Methylnaphthalene (UV)	1	0.0054	0.0055	0.0056	0.0054	0.0053	0.0056	0.0052	LINR	R	-926.027	188.8741		ug/L	0.0055	0.999	0.99	20	
Acenaphthylene	2	0.0181	0.0188	0.0183	0.0180	0.0177	0.0189	0.0177	LINR	R	-360.910	56.16012		ug/L	0.0182	0.999	0.99	20	
1-Methylnaphthalene (UV)	2	0.0020	0.0021	0.0021	0.0020	0.0019	0.0021	0.0019	LINR	R	-918.718	517.4134		ug/L	0.0020	0.999	0.99	20	

Curves: LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: HPLC02 High Pressure Liquid Chromatograph #2 Reviewed By: MCH
Calnum: 274483056001 Name: Type: (normal) Date: 30-NOV-2004 13:29 Inj Vol (uL): 10

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Naphthalene	3	0.0031	0.0036	0.0043	0.0044	0.0043	0.0041		LINR	R	-69.4282	241.5556		ug/L	0.0040	0.999	0.99	20	
Acenaphthene	3	0.0024	0.0023	0.0030	0.0033	0.0035	0.0039	0.0036	LINR	R	264.8084	270.7299		ug/L	0.0031	0.999	0.99	20	
Fluorene	3	0.0025	0.0026	0.0030	0.0031	0.0037	0.0047	0.0046	LINR	R	184.7635	212.8916		ug/L	0.0034	0.998	0.99	20	
Phenanthrene	3	0.0127	0.0118	0.0125	0.0151	0.0167	0.0196	0.0186	LINR	R	54.79741	52.70754		ug/L	0.0153	0.999	0.99	20	
Anthracene	3	0.0200	0.0211	0.0255	0.0289	0.0305	0.0339	0.0322	LINR	R	32.65664	30.56200		ug/L	0.0275	0.999	0.99	20	
Fluoranthene	3	0.0297	0.0367	0.0422	0.0435	0.0441	0.0473	0.0443	LINR	R	3.642157	22.27054		ug/L	0.0411	0.999	0.99	20	
Pyrene	3	0.0365	0.0438	0.0539	0.0569	0.0584	0.0636	0.0596	LINR	R	12.53667	16.52790		ug/L	0.0532	0.999	0.99	20	
Benzo(a)anthracene	3	0.0464	0.0547	0.0628	0.0657	0.0665	0.0719	0.0675	LINR	R	6.092683	14.61646		ug/L	0.0622	0.999	0.99	20	
Chrysene	3	0.0195	0.0192	0.0240	0.0262	0.0273	0.0303	0.0284	LINR	R	22.53893	34.61287		ug/L	0.0250	0.999	0.99	20	
Benzo(b)fluoranthene	3	0.0251	0.0294	0.0334	0.0344	0.0348	0.0376	0.0352	LINR	R	5.623700	28.04787		ug/L	0.0328	0.999	0.99	20	
Benzo(k)fluoranthene	3	0.0598	0.0718	0.0800	0.0821	0.0827	0.0892	0.0837	LINR	R	1.966166	11.80444		ug/L	0.0785	0.999	0.99	20	
Benzo(a)pyrene	3	0.0675	0.0807	0.0883	0.0893	0.0894	0.0967	0.0910	LINR	R	1.932707	10.85597		ug/L	0.0861	0.999	0.99	20	
Dibenz(a,h)anthracene	3	0.0021	0.0025	0.0026	0.0030	0.0034	0.0040	0.0038	LINR	R	129.6825	254.6575		ug/L	0.0031	0.999	0.99	20	
Benzo(g,h,i)perylene	3	0.0161	0.0182	0.0211	0.0221	0.0223	0.0241	0.0227	LINR	R	12.59304	43.51610		ug/L	0.0210	0.999	0.99	20	
Indeno(1,2,3-cd)pyrene	3	0.0211	0.0234	0.0278	0.0298	0.0306	0.0330	0.0311	LINR	R	12.31330	31.69613		ug/L	0.0281	0.999	0.99	20	
1-Methylnaphthalene (F)	3	0.0023	0.0027	0.0030	0.0030	0.0031	0.0032	0.0029	LINR	R	-798.052	334.7784		ug/L	0.0029	0.998	0.99	20	

Curves: LINR: Linear regression
Instrument amount = a0 + response * a1 + response^2 * a2

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Calibration Table

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UPDATED RETENTION TIMES FROM CCU FILE 34200015. Gm 08DEC2004

HPLC02 METHOD 8310

Calib. Data Modified : 12/8/04 6:11:01 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 0.650 %
Abs. Reference Window : 0.250 min
Rel. Non-ref. Window : 0.650 %
Abs. Non-ref. Window : 0.250 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=254,4 Ref=550,100
Signal 2: DAD1 B, Sig=305,4 Ref=480,80
Signal 3: FLD1 A, Ex=zero, Em=zero, TT

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
3.392	1	1	500.00000	4.31186	115.95913			Naphthalene
		2	1000.00000	8.63450	115.81452			
		3	2500.00000	21.86520	114.33695			
		4	5000.00000	42.29752	118.21024			
		5	1.00000e4	82.55939	121.12492			
		6	2.50000e4	218.38152	114.47855			
		7	5.00000e4	406.68845	122.94424			
3.486	3	1	500.00000	1.55434	321.67972			Naphthalene
		2	1000.00000	3.56455	280.54031			
		3	2500.00000	10.64355	234.88402			
		4	5000.00000	21.95644	227.72364			
		5	1.00000e4	43.07471	232.15476			
		6	2.50000e4	103.08364	242.52151			
4.194	1	1	1000.00000	6.28940	158.99780			Acenaphthylene
		2	2000.00000	12.38465	161.49025			
		3	5000.00000	30.54239	163.70688			
		4	1.00000e4	59.58089	167.83904			
		5	2.00000e4	117.59630	170.07338			

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	5.00000e4	314.65527	158.90406			
		7	1.00000e5	581.84796	171.86620			
4.195	2	1	1000.00000	18.08153	55.30506			Acenaphthylene
		2	2000.00000	37.60623	53.18268			
		3	5000.00000	91.50748	54.64034			
		4	1.00000e4	180.31442	55.45868			
		5	2.00000e4	354.74982	56.37776			
		6	5.00000e4	945.10614	52.90411			
		7	1.00000e5	1765.19067	56.65110			
4.890	1	1	2000.00000	10.84500	184.41679			1-Methylnaphthalene (U
		2	4000.00000	22.19871	180.19067			
		3	1.00000e4	56.01902	178.51081			
		4	2.00000e4	108.27608	184.71300			
		5	4.00000e4	213.14566	187.66509			
		6	1.00000e5	564.83459	177.04298			
		7	2.00000e5	1049.74487	190.52248			
4.891	2	1	2000.00000	3.94664	506.76006			1-Methylnaphthalene (U
		2	4000.00000	8.27194	483.56254			
		3	1.00000e4	21.22219	471.20501			
		4	2.00000e4	39.82648	502.17839			
		5	4.00000e4	76.80556	520.79565			
		6	1.00000e5	205.32108	487.04206			
		7	2.00000e5	383.72702	521.20385			
4.985	3	1	2000.00000	4.58224	436.46783			1-Methylnaphthalene (F
		2	4000.00000	10.78237	370.97584			
		3	1.00000e4	29.96865	333.68200			
		4	2.00000e4	60.93731	328.20616			
		5	4.00000e4	122.11047	327.57223			
		6	1.00000e5	321.61096	310.93468			
		7	2.00000e5	589.82574	339.08320			
5.748	1	1	500.00000	1.70188	293.79333			Acenaphthene
		2	1000.00000	3.57801	279.48526			
		3	2500.00000	8.80233	284.01583			
		4	5000.00000	16.59438	301.30677			
		5	1.00000e4	31.91953	313.28787			
		6	2.50000e4	86.51506	288.96703			
		7	5.00000e4	159.13475	314.19913			
5.841	3	1	500.00000	1.18144	423.21184			Acenaphthene
		2	1000.00000	2.34698	426.07911			
		3	2500.00000	7.46315	334.97939			
		4	5000.00000	16.43540	304.22134			
		5	1.00000e4	34.97375	285.92869			
		6	2.50000e4	96.45049	259.20033			
		7	5.00000e4	181.51143	275.46475			
6.202	1	1	100.00000	3.32625	30.06391			Fluorene
		2	200.00000	7.91799	25.25894			
		3	500.00000	20.06527	24.91868			
		4	1000.00000	39.55935	25.27848			
		5	2000.00000	78.94252	25.33489			
		6	5000.00000	209.40292	23.87741			
		7	1.00000e4	392.75949	25.46087			
6.299	3	1	100.00000	2.46874e-1	405.06524			Fluorene
		2	200.00000	5.14503e-1	388.72434			
		3	500.00000	1.48946	335.69229			
		4	1000.00000	3.07796	324.89013			
		5	2000.00000	7.48551	267.18283			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		6	5000.00000	23.47458	212.99635			
		7	1.00000e4	45.94382	217.65711			
7.659	1	1	50.00000	5.91992	8.44605			Phenanthrene
		2	100.00000	11.69300	8.55213			
		3	250.00000	29.37184	8.51155			
		4	500.00000	58.85413	8.49558			
		5	1000.00000	117.19361	8.53289			
		6	2500.00000	315.43826	7.92548			
		7	5000.00000	583.59845	8.56753			
7.760	3	1	50.00000	6.33163e-1	78.96862			Phenanthrene
		2	100.00000	1.18450	84.42386			
		3	250.00000	3.13136	79.83743			
		4	500.00000	7.52628	66.43392			
		5	1000.00000	16.73864	59.74202			
		6	2500.00000	48.97199	51.04959			
		7	5000.00000	92.87912	53.83341			
8.986	1	1	50.00000	14.97344	3.33925			Anthracene
		2	100.00000	30.59108	3.26893			
		3	250.00000	76.24738	3.27880			
		4	500.00000	150.73016	3.31719			
		5	1000.00000	295.36633	3.38563			
		6	2500.00000	781.77179	3.19786			
9.081	3	1	50.00000	1.00221	49.88972			Anthracene
		2	100.00000	2.11401	47.30352			
		3	250.00000	6.37644	39.20682			
		4	500.00000	14.44166	34.62205			
		5	1000.00000	30.47367	32.81521			
		6	2500.00000	84.85879	29.46071			
		7	5000.00000	160.82495	31.08970			
10.438	1	1	100.00000	3.05667	32.71530			Fluoranthene
		2	200.00000	5.63348	35.50204			
		3	500.00000	13.90507	35.95810			
		4	1000.00000	26.64416	37.53168			
		5	2000.00000	53.44261	37.42332			
		6	5000.00000	143.98251	34.72644			
		7	1.00000e4	267.03827	37.44782			
10.528	3	1	100.00000	2.96923	33.67881			Fluoranthene
		2	200.00000	7.33047	27.28337			
		3	500.00000	21.09318	23.70434			
		4	1000.00000	43.52878	22.97331			
		5	2000.00000	88.23465	22.66683			
		6	5000.00000	236.64755	21.12847			
		7	1.00000e4	443.21582	22.56237			
11.249	1	1	50.00000	1.23133	40.60649			Pyrene
		2	100.00000	2.76261	36.19769			
		3	250.00000	5.52181	45.27501			
		4	500.00000	9.71275	51.47873			
		5	1000.00000	20.30045	49.25999			
		6	2500.00000	55.51360	45.03401			
		7	5000.00000	102.49352	48.78357			
11.350	3	1	50.00000	1.82549	27.38983			Pyrene
		2	100.00000	4.38136	22.82397			
		3	250.00000	13.47940	18.54682			
		4	500.00000	28.47038	17.56211			
		5	1000.00000	58.37191	17.13153			
		6	2500.00000	158.88483	15.73467			

RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		7	5000.00000	298.01215	16.77784			
14.098	1	1	50.00000	3.29384	15.17987			Benzo(a)anthracene
		2	100.00000	6.72696	14.86555			
		3	250.00000	15.03881	16.62366			
		4	500.00000	31.23007	16.01021			
		5	1000.00000	61.10058	16.36646			
		6	2500.00000	166.21030	15.04119			
		7	5000.00000	305.48935	16.36718			
14.188	3	1	50.00000	2.32203	21.53292			Benzo(a)anthracene
		2	100.00000	5.47334	18.27038			
		3	250.00000	15.69915	15.92443			
		4	500.00000	32.86811	15.21231			
		5	1000.00000	66.53838	15.02892			
		6	2500.00000	179.71417	13.91098			
		7	5000.00000	337.57739	14.81142			
14.475	1	1	50.00000	4.08725	12.23316			Chrysene
		2	100.00000	8.93741	11.18892			
		3	250.00000	20.99216	11.90921			
		4	500.00000	42.22425	11.84154			
		5	1000.00000	81.50778	12.26877			
		6	2500.00000	221.03595	11.31038			
		7	5000.00000	408.25659	12.24720			
14.571	3	1	50.00000	9.74682e-1	51.29877			Chrysene
		2	100.00000	1.91558	52.20363			
		3	250.00000	5.98964	41.73872			
		4	500.00000	13.11566	38.12237			
		5	1000.00000	27.31899	36.60457			
		6	2500.00000	75.64968	33.04707			
		7	5000.00000	142.05281	35.19818			
16.534	1	1	100.00000	6.63490	15.07181			Benzo(b)fluoranthene
		2	200.00000	14.24467	14.04034			
		3	500.00000	34.71607	14.40255			
		4	1000.00000	69.68497	14.35030			
		5	2000.00000	133.91260	14.93511			
		6	5000.00000	359.21405	13.91928			
		7	1.00000e4	667.68604	14.97710			
16.629	3	1	100.00000	2.51490	39.76301			Benzo(b)fluoranthene
		2	200.00000	5.87458	34.04502			
		3	500.00000	16.67978	29.97641			
		4	1000.00000	34.44059	29.03551			
		5	2000.00000	69.55247	28.75527			
		6	5000.00000	187.92404	26.60649			
		7	1.00000e4	351.89279	28.41775			
17.329	1	1	50.00000	2.77974	17.98730			Benzo(k)fluoranthene
		2	100.00000	5.98705	16.70272			
		3	250.00000	14.06313	17.77698			
		4	500.00000	29.18873	17.12990			
		5	1000.00000	55.99605	17.85840			
		6	2500.00000	148.54869	16.82950			
		7	5000.00000	277.25571	18.03389			
17.418	3	1	50.00000	2.99102	16.71670			Benzo(k)fluoranthene
		2	100.00000	7.17654	13.93428			
		3	250.00000	20.00485	12.49697			
		4	500.00000	41.03683	12.18418			
		5	1000.00000	82.67494	12.09556			
		6	2500.00000	222.94995	11.21328			

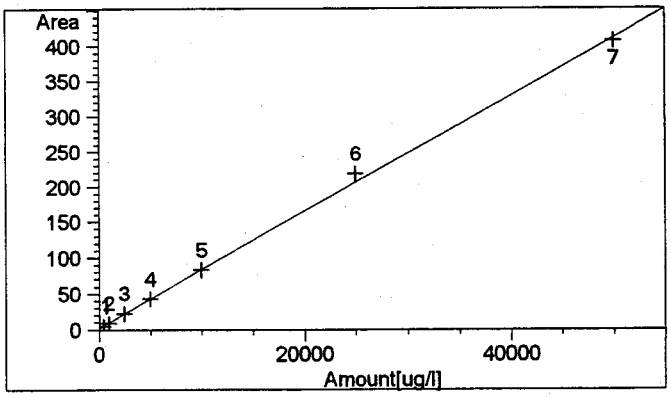
RetTime [min]	Sig	Lvl	Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		7	5000.00000	418.31058	11.95284			
18.119	1	1	50.00000	3.57961	13.96801			Benzo(a)pyrene
		2	100.00000	6.04327	16.54733			
		3	250.00000	14.95904	16.71230			
		4	500.00000	30.96250	16.14857			
		5	1000.00000	56.78754	17.60950			
		6	2500.00000	153.12283	16.32676			
		7	5000.00000	285.60629	17.50662			
18.214	3	1	50.00000	3.37266	14.82509			Benzo(a)pyrene
		2	100.00000	8.06723	12.39584			
		3	250.00000	22.08598	11.31940			
		4	500.00000	44.63253	11.20259			
		5	1000.00000	89.38769	11.18722			
		6	2500.00000	241.86984	10.33614			
		7	5000.00000	455.22079	10.98368			
19.500	1	1	100.00000	1.59768	62.59080			Dibenz(a,h)anthracene
		2	200.00000	3.21429	62.22215			
		3	500.00000	7.41241	67.45449			
		4	1000.00000	14.60319	68.47821			
		5	2000.00000	27.95065	71.55470			
		6	5000.00000	75.77367	65.98598			
		7	1.00000e4	140.85057	70.99723			
19.600	3	1	100.00000	2.14910e-1	465.31183			Dibenz(a,h)anthracene
		2	200.00000	4.94025e-1	404.83794			
		3	500.00000	1.32187	378.25206			
		4	1000.00000	2.96133	337.68576			
		5	2000.00000	6.78312	294.84944			
		6	5000.00000	20.01237	249.84553			
		7	1.00000e4	38.47232	259.92711			
20.148	1	1	100.00000	1.89297	52.82693			Benzo(g,h,i)perylene
		2	200.00000	5.49638	36.38760			
		3	500.00000	12.49473	40.01686			
		4	1000.00000	25.55903	39.12511			
		5	2000.00000	48.76375	41.01407			
		6	5000.00000	127.44832	39.23159			
		7	1.00000e4	240.84608	41.52029			
20.239	3	1	100.00000	1.61210	62.03074			Benzo(g,h,i)perylene
		2	200.00000	3.64393	54.88573			
		3	500.00000	10.54936	47.39626			
		4	1000.00000	22.06674	45.31708			
		5	2000.00000	44.67788	44.76489			
		6	5000.00000	120.64331	41.44449			
		7	1.00000e4	226.80501	44.09074			
20.540	1	1	50.00000	3.14247	15.91105			Indeno(1,2,3-cd)pyrene
		2	100.00000	7.75422	12.89621			
		3	250.00000	18.91677	13.21578			
		4	500.00000	37.24843	13.42338			
		5	1000.00000	72.13155	13.86356			
		6	2500.00000	189.82874	13.16977			
		7	5000.00000	356.41794	14.02847			
20.634	3	1	50.00000	1.05348	47.46185			Indeno(1,2,3-cd)pyrene
		2	100.00000	2.34306	42.67928			
		3	250.00000	6.93888	36.02885			
		4	500.00000	14.90517	33.54541			
		5	1000.00000	30.56615	32.71593			
		6	2500.00000	82.46581	30.31560			

RetTime [min]	Lvl Sig		Amount [ug/l]	Area	Amt/Area	Ref	Grp	Name
		7	5000.00000	155.57426	32.13899			

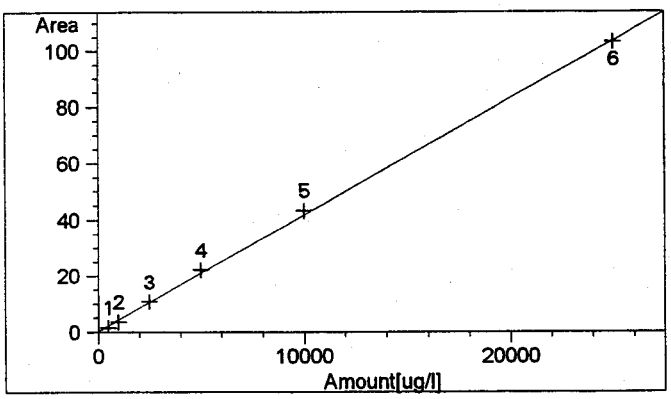
Peak Sum Table

No Entries in table

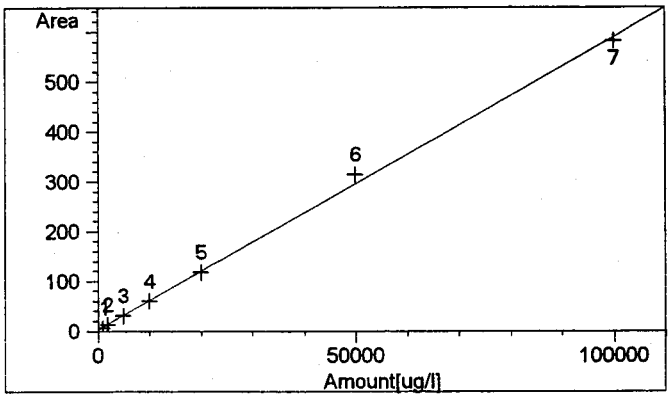
Calibration Curves



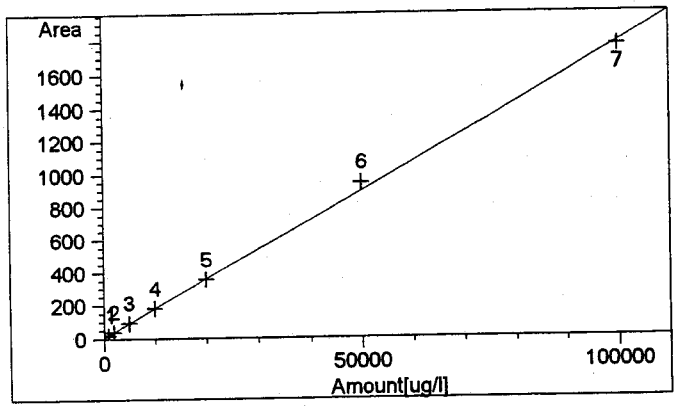
Naphthalene at exp. RT: 3.392
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99938
Residual Std. Dev.: 5.76834
Formula: y = mx + b
m: 8.19891e-3
b: 2.00586
x: Amount[ug/l]
y: Area



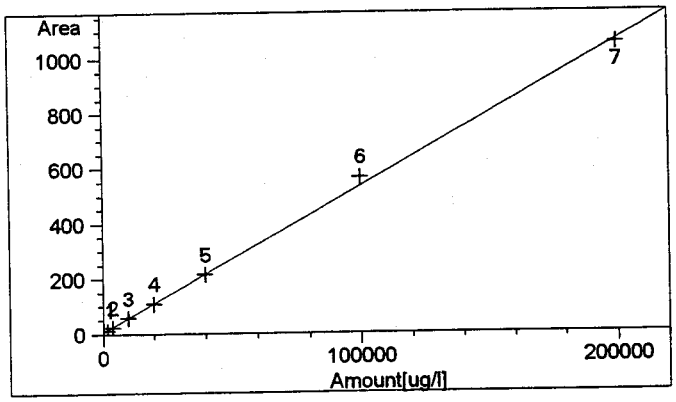
Naphthalene at exp. RT: 3.486
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99968
Residual Std. Dev.: 1.08954
Formula: y = mx + b
m: 4.13983e-3
b: 2.87422e-1
x: Amount[ug/l]
y: Area



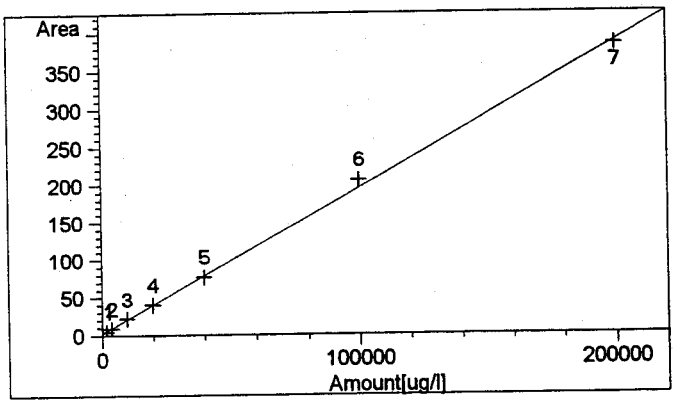
Acenaphthylene at exp. RT: 4.194
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99923
Residual Std. Dev.: 9.20067
Formula: y = mx + b
m: 5.87547e-3
b: 2.61558
x: Amount[ug/l]
y: Area



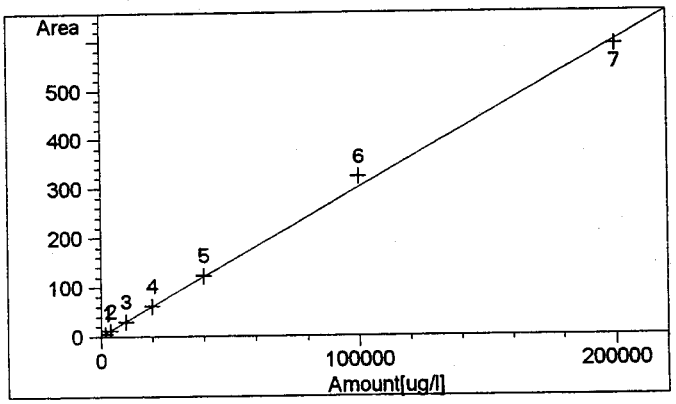
Acenaphthylene at exp. RT: 4.195
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99941
Residual Std. Dev.: 24.36662
Formula: y = mx + b
m: 1.78062e-2
b: 6.42644
x: Amount[ug/l]
y: Area



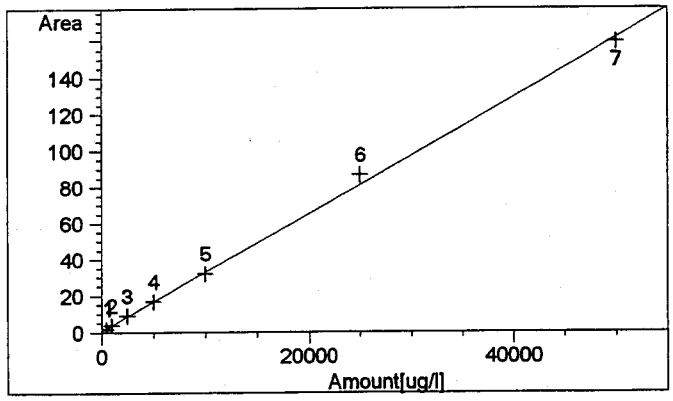
1-Methylnaphthalene (UV) at exp. RT: 4.89
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99934
Residual Std. Dev.: 15.39882
Formula: y = mx + b
m: 5.29453e-3
b: 4.90288
x: Amount[ug/l]
y: Area



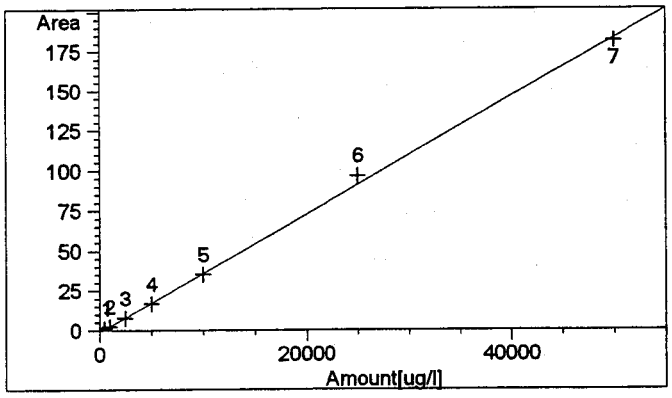
1-Methylnaphthalene (UV) at exp. RT: 4.89
DAD1 B, Sig=305,4 Ref=480,80
Correlation: 0.99943
Residual Std. Dev.: 5.22691
Formula: y = mx + b
m: 1.93269e-3
b: 1.77560
x: Amount[ug/l]
y: Area



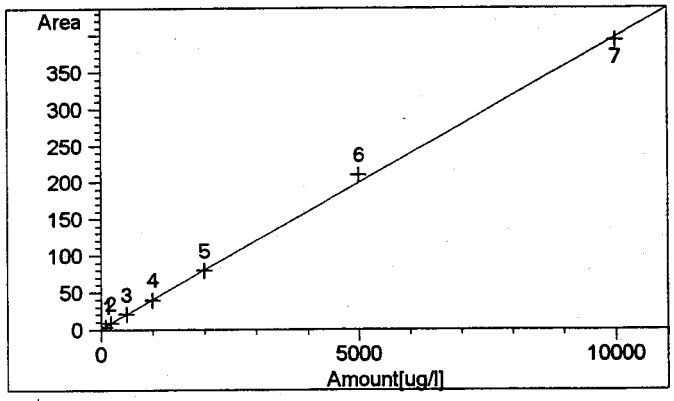
1-Methylnaphthalene (F) at exp. RT: 4.985
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99903
Residual Std. Dev.: 10.52683
Formula: y = mx + b
m: 2.98705e-3
b: 2.38382
x: Amount[ug/l]
y: Area



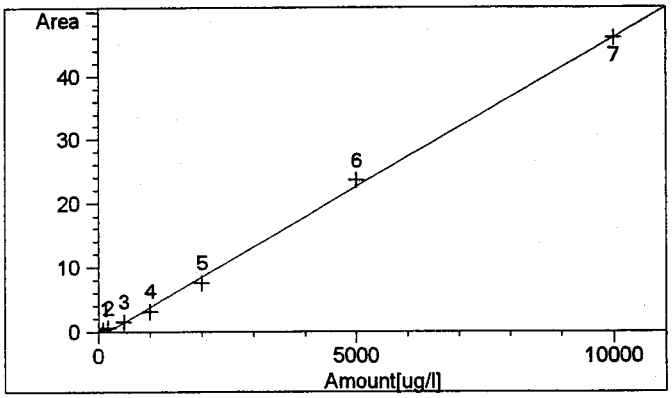
Acenaphthene at exp. RT: 5.748
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99912
Residual Std. Dev.: 2.68838
Formula: y = mx + b
m: 3.21214e-3
b: 9.00642e-1
x: Amount[ug/l]
y: Area



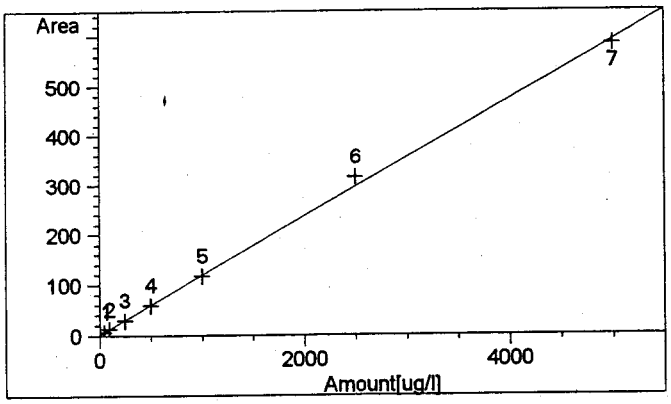
Acenaphthene at exp. RT: 5.841
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99938
Residual Std. Dev.: 2.59363
Formula: y = mx + b
m: 3.69372e-3
b: -9.78126e-1
x: Amount[ug/l]
y: Area



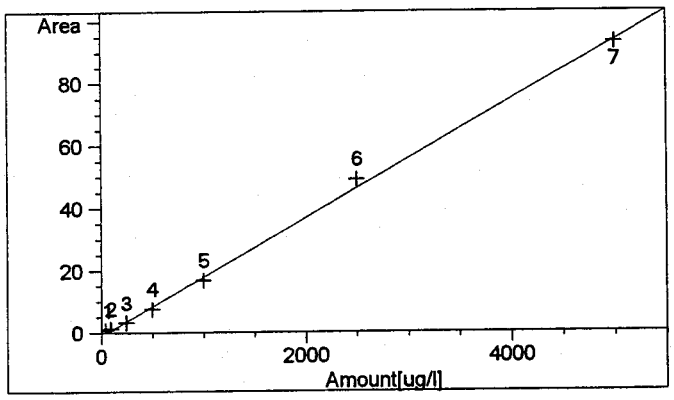
Fluorene at exp. RT: 6.202
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99947
Residual Std. Dev.: 5.15451
Formula: y = mx + b
m: 3.96501e-2
b: 9.36047e-1
x: Amount[ug/l]
y: Area



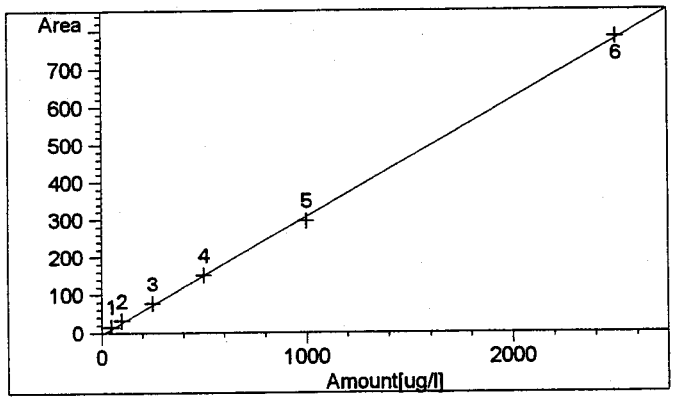
Fluorene at exp. RT: 6.299
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99914
Residual Std. Dev.: 0.77715
Formula: y = mx + b
m: 4.69723e-3
b: -8.67875e-1
x: Amount[ug/l]
y: Area



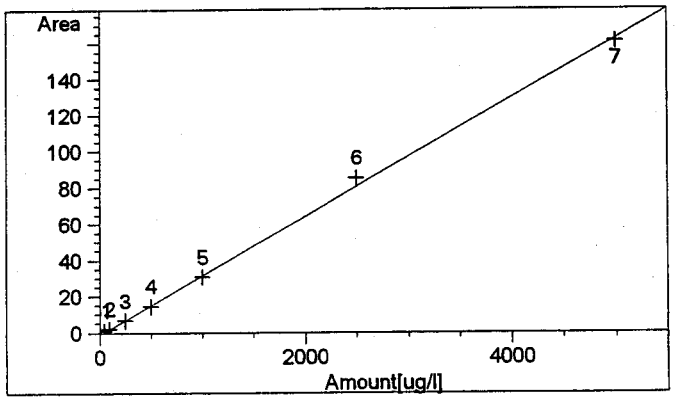
Phenanthrene at exp. RT: 7.659
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99922
Residual Std. Dev.: 9.33492
Formula: y = mx + b
m: 1.18044e-1
b: 1.77887
x: Amount[ug/l]
y: Area



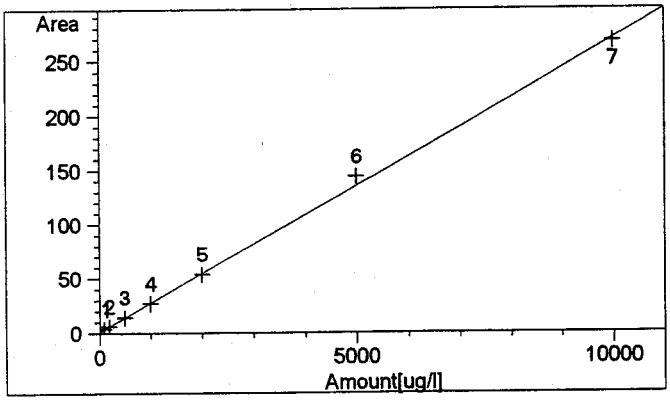
Phenanthrene at exp. RT: 7.760
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99925
Residual Std. Dev.: 1.46839
Formula: y = mx + b
m: 1.89726e-2
b: -1.03965
x: Amount[ug/l]
y: Area



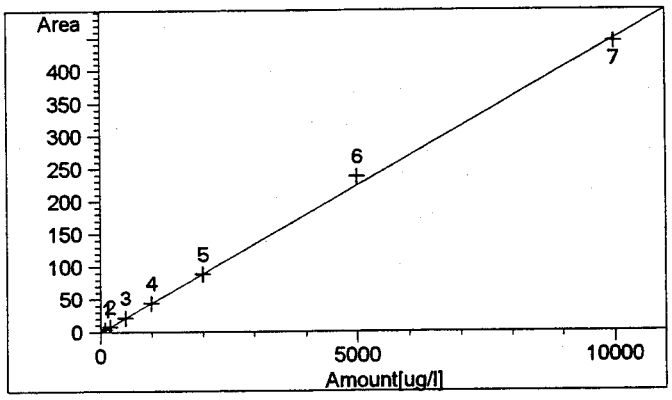
Anthracene at exp. RT: 8.986
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99974
Residual Std. Dev.: 7.44579
Formula: y = mx + b
m: 3.12365e-1
b: -4.12062
x: Amount[ug/l]
y: Area



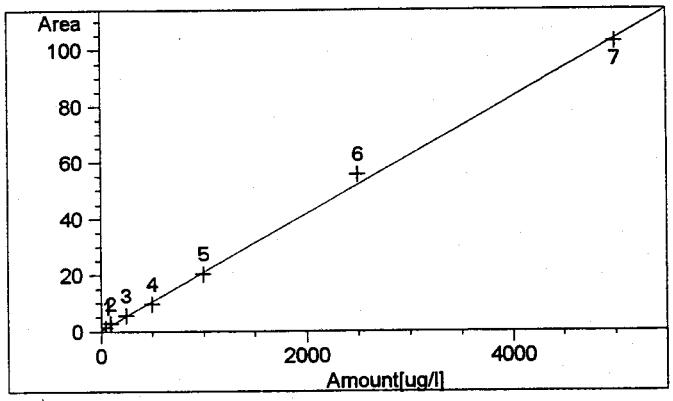
Anthracene at exp. RT: 9.081
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99947
Residual Std. Dev.: 2.13512
Formula: y = mx + b
m: 3.27204e-2
b: -1.06854
x: Amount[ug/l]
y: Area



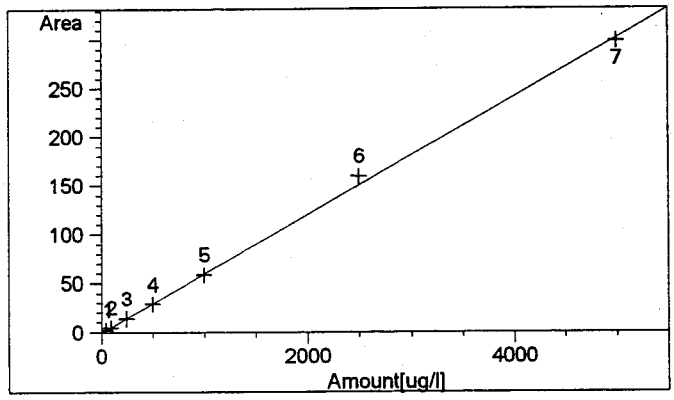
Fluoranthene at exp. RT: 10.438
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99927
Residual Std. Dev.: 4.11958
Formula: y = mx + b
m: 2.69714e-2
b: 9.48578e-1
x: Amount[ug/l]
y: Area



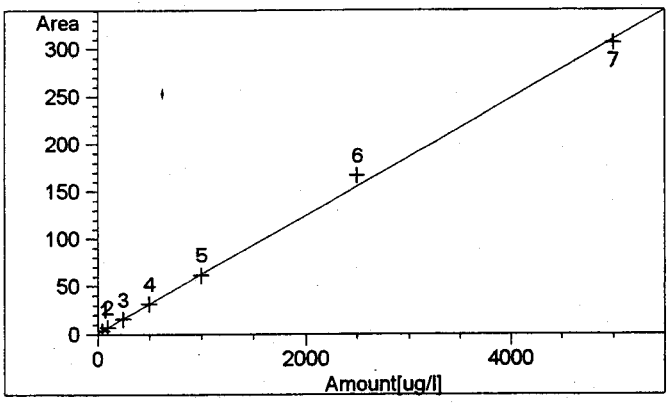
Fluoranthene at exp. RT: 10.528
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99940
Residual Std. Dev.: 6.19761
Formula: y = mx + b
m: 4.49024e-2
b: -1.63542e-1
x: Amount[ug/l]
y: Area



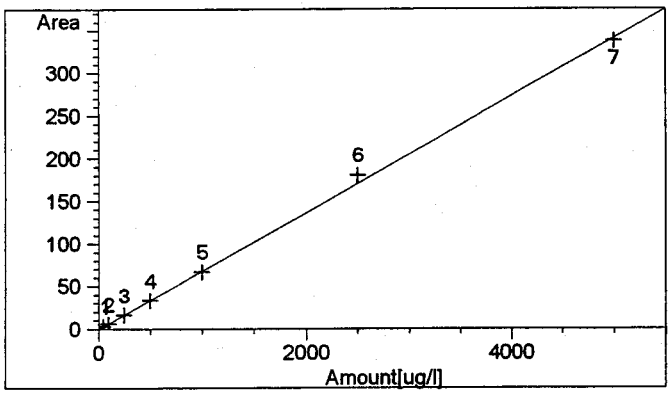
Pyrene at exp. RT: 11.249
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99912
Residual Std. Dev.: 1.73968
Formula: y = mx + b
m: 2.06927e-2
b: 4.32079e-1
x: Amount[ug/l]
y: Area



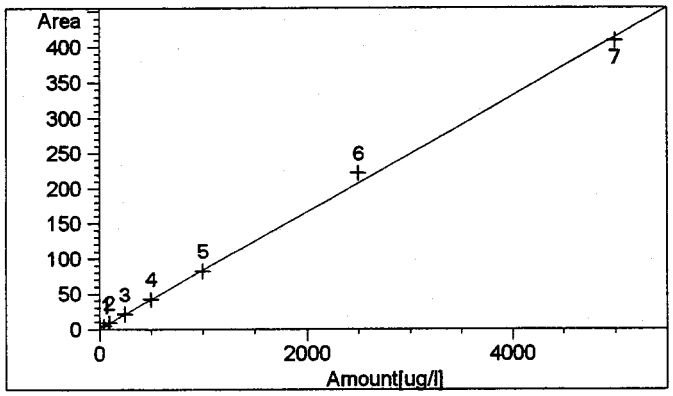
Pyrene at exp. RT: 11.350
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99939
Residual Std. Dev.: 4.22099
Formula: y = mx + b
m: 6.05037e-2
b: -7.58515e-1
x: Amount[ug/l]
y: Area



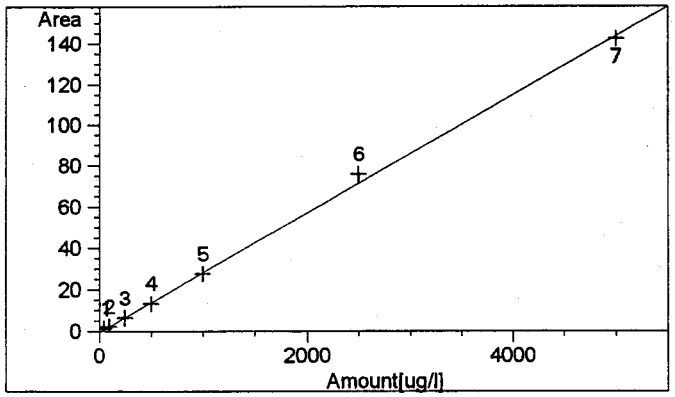
Benzo(a)anthracene at exp. RT: 14.098
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99908
Residual Std. Dev.: 5.31087
Formula: y = mx + b
m: 6.18090e-2
b: 1.15507
x: Amount[ug/l]
y: Area



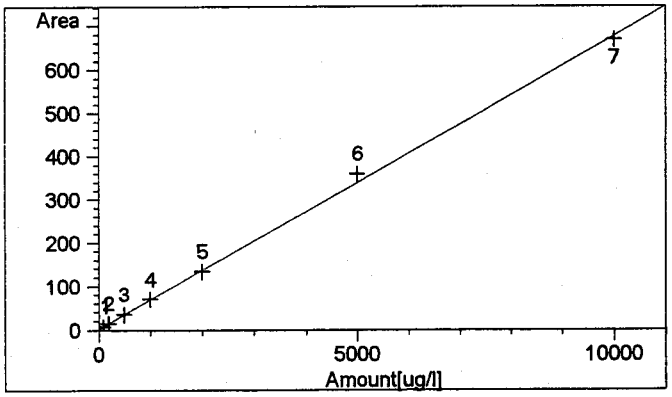
Benzo(a)anthracene at exp. RT: 14.188
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99944
Residual Std. Dev.: 4.57542
Formula: y = mx + b
m: 6.84160e-2
b: -4.16839e-1
x: Amount[ug/l]
y: Area



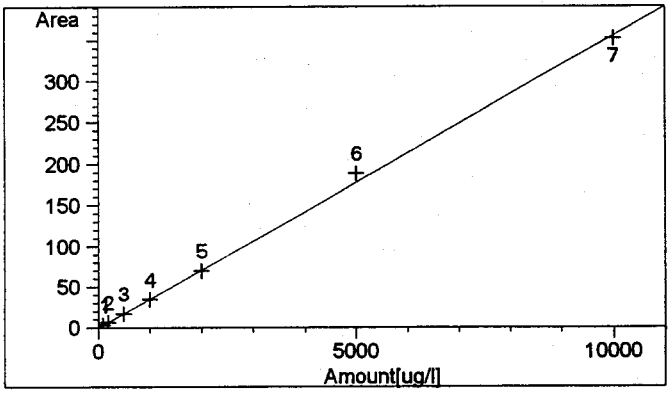
Chrysene at exp. RT: 14.475
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99919
Residual Std. Dev.: 6.63541
Formula: y = mx + b
m: 8.24951e-2
b: 1.65531
x: Amount[ug/l]
y: Area



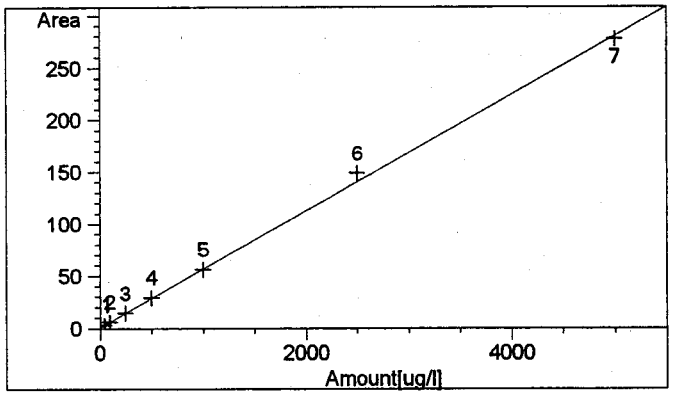
Chrysene at exp. RT: 14.571
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99936
Residual Std. Dev.: 2.07086
Formula: y = mx + b
m: 2.88910e-2
b: -6.51172e-1
x: Amount[ug/l]
y: Area



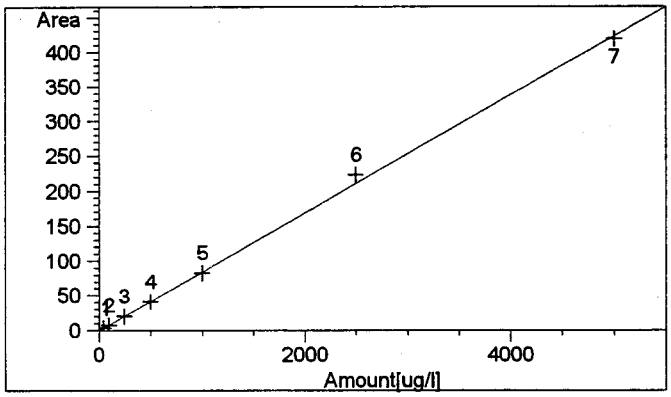
Benzo(b)fluoranthene at exp. RT: 16.534
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99933
Residual Std. Dev.: 9.89441
Formula: y = mx + b
m: 6.73766e-2
b: 2.77325
x: Amount[ug/l]
y: Area



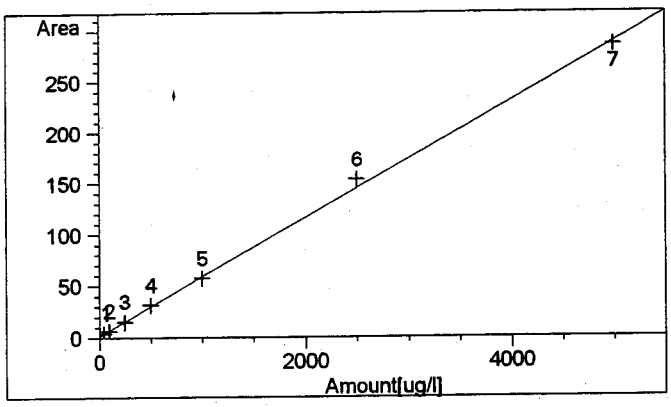
Benzo(b)fluoranthene at exp. RT: 16.629
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99939
Residual Std. Dev.: 4.96110
Formula: y = mx + b
m: 3.56533e-2
b: -2.00503e-1
x: Amount[ug/l]
y: Area



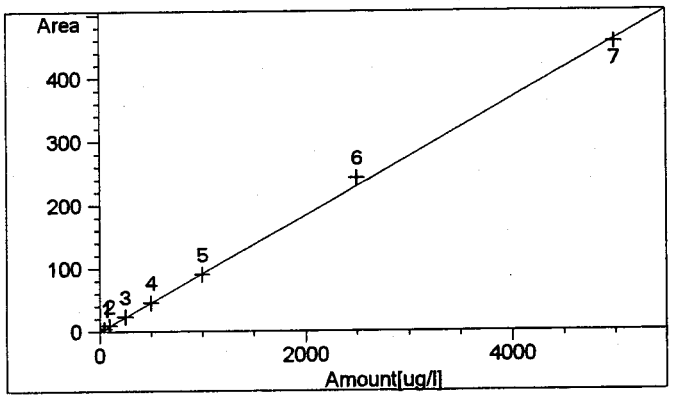
Benzo(k)fluoranthene at exp. RT: 17.329
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99941
Residual Std. Dev.: 3.85164
Formula: y = mx + b
m: 5.59164e-2
b: 1.17217
x: Amount[ug/l]
y: Area



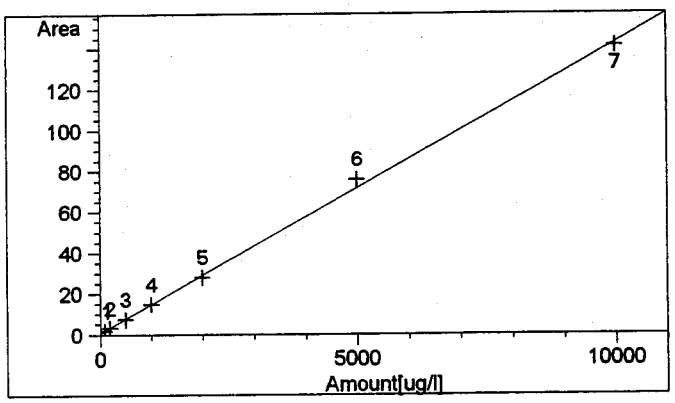
Benzo(k)fluoranthene at exp. RT: 17.418
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99943
Residual Std. Dev.: 5.70311
Formula: y = mx + b
m: 8.47139e-2
b: -1.66560e-1
x: Amount[ug/l]
y: Area



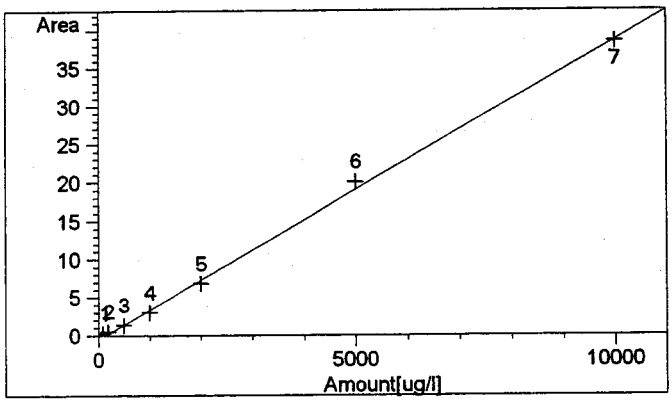
Benzo(a)pyrene at exp. RT: 18.119
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99938
Residual Std. Dev.: 4.04527
Formula: y = mx + b
m: 5.75193e-2
b: 1.48276
x: Amount[ug/l]
y: Area



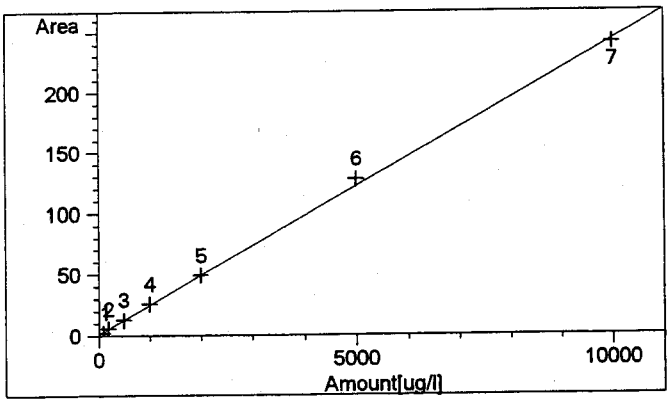
Benzo(a)pyrene at exp. RT: 18.214
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99948
Residual Std. Dev.: 5.92932
Formula: y = mx + b
m: 9.21152e-2
b: -1.78033e-1
x: Amount[ug/l]
y: Area



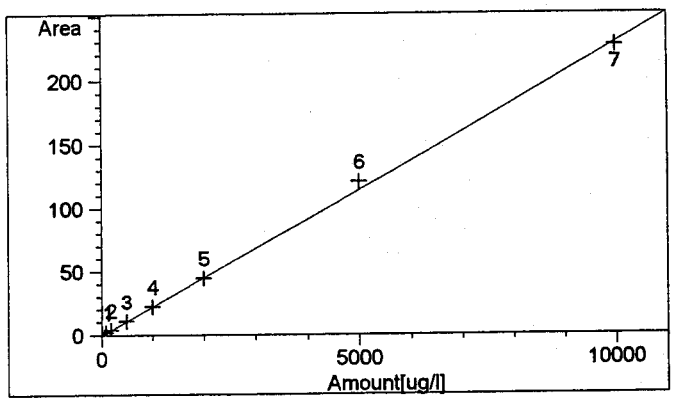
Dibenz(a,h)anthracene at exp. RT: 19.500
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99932
Residual Std. Dev.: 2.09394
Formula: y = mx + b
m: 1.42025e-2
b: 6.28032e-1
x: Amount[ug/l]
y: Area



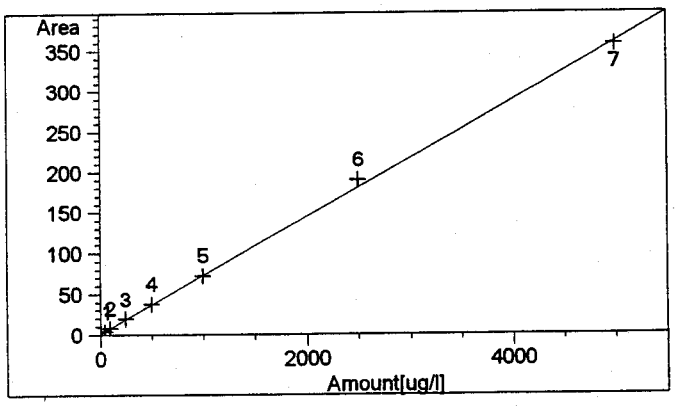
Dibenz(a,h)anthracene at exp. RT: 19.600
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99936
Residual Std. Dev.: 0.55998
Formula: y = mx + b
m: 3.92684e-3
b: -5.09243e-1
x: Amount[ug/l]
y: Area



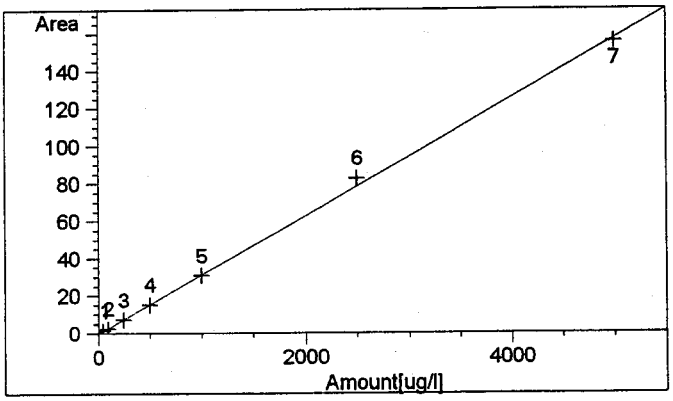
Benzo(g,h,i)perylene at exp. RT: 20.148
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99960
Residual Std. Dev.: 2.73980
Formula: y = mx + b
m: 2.42352e-2
b: 9.82722e-1
x: Amount[ug/l]
y: Area



Benzo(g,h,i)perylene at exp. RT: 20.239
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99945
Residual Std. Dev.: 3.03674
Formula: y = mx + b
m: 2.29800e-2
b: -2.89388e-1
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 20.540
DAD1 A, Sig=254,4 Ref=550,100
Correlation: 0.99951
Residual Std. Dev.: 4.49293
Formula: y = mx + b
m: 7.18034e-2
b: 1.49836
x: Amount[ug/l]
y: Area



Indeno(1,2,3-cd)pyrene at exp. RT: 20.634
FLD1 A, Ex=zero, Em=zero, TT
Correlation: 0.99949
Residual Std. Dev.: 2.00632
Formula: y = mx + b
m: 3.15496e-2
b: -3.88481e-1
x: Amount[ug/l]
y: Area

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CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : HPLC02
Seqnum : 274511840003
Calnum : 274483056001
Standards: 04WS2232

Run Name : L
Filename : 35500003
Caldate : 30-NOV-2004

IDF : 1.0
Injected : 20-DEC-2004 11:41
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Naphthalene	1	0.0085	0.0089	2500.000	2483.106	ug/L	-1	15	
Acenaphthylene	1	0.0061	0.0060	5000.000	4670.487	ug/L	-7	15	
Acenaphthene	1	0.0034	0.0034	2500.000	2377.275	ug/L	-5	15	
Fluorene	1	0.0390	0.0429	500.0000	516.8490	ug/L	3	15	
Phenanthrene	1	0.1187	0.1179	250.0000	234.6491	ug/L	-6	15	
Anthracene	1	0.3033	0.3028	250.0000	255.5426	ug/L	2	15	
Fluoranthene	1	0.0279	0.0269	500.0000	464.1533	ug/L	-7	15	
Pyrene	1	0.0224	0.0216	250.0000	239.9859	ug/L	-4	15	
Benzo(a)anthracene	1	0.0635	0.0623	250.0000	233.3494	ug/L	-7	15	
Chrysene	1	0.0844	0.0844	250.0000	235.6296	ug/L	-6	15	
Benzo(b)fluoranthene	1	0.0689	0.0692	500.0000	472.4439	ug/L	-6	15	
Benzo(k)fluoranthene	1	0.0573	0.0590	250.0000	242.7808	ug/L	-3	15	
Benzo(a)pyrene	1	0.0613	0.0669	250.0000	264.8479	ug/L	6	15	
Dibenz(a,h)anthracene	1	0.0150	0.0145	500.0000	467.4321	ug/L	-7	15	
Benzo(g,h,i)perylene	1	0.0244	0.0251	500.0000	476.8736	ug/L	-5	15	
Indeno(1,2,3-cd)pyrene	1	0.0728	0.0693	250.0000	220.5621	ug/L	-12	15	
1-Methylnaphthalene (UV)	1	0.0055	0.0049	50000.00	45708.65	ug/L	-9	15	
Acenaphthylene	2	0.0182	0.0186	5000.000	4854.971	ug/L	-3	15	
1-Methylnaphthalene (UV)	2	0.0020	0.0018	50000.00	46126.37	ug/L	-8	15	
Naphthalene	3	0.0040	0.0045	2500.000	2631.721	ug/L	5	15	
Acenaphthene	3	0.0031	0.0031	2500.000	2334.395	ug/L	-7	15	
Fluorene	3	0.0034	0.0029	500.0000	495.7726	ug/L	-1	15	
Phenanthrene	3	0.0153	0.0128	250.0000	224.0909	ug/L	-10	15	
Anthracene	3	0.0275	0.0262	250.0000	233.0660	ug/L	-7	15	
Fluoranthene	3	0.0411	0.0431	500.0000	484.1280	ug/L	-3	15	
Pyrene	3	0.0532	0.0534	250.0000	233.1639	ug/L	-7	15	
Benzo(a)anthracene	3	0.0622	0.0623	250.0000	233.6745	ug/L	-7	15	
Chrysene	3	0.0250	0.0243	250.0000	232.4172	ug/L	-7	15	
Benzo(b)fluoranthene	3	0.0328	0.0329	500.0000	466.4395	ug/L	-7	15	
Benzo(k)fluoranthene	3	0.0785	0.0793	250.0000	235.8565	ug/L	-6	15	
Benzo(a)pyrene	3	0.0861	0.0962	250.0000	263.0934	ug/L	5	15	
Dibenz(a,h)anthracene	3	0.0031	0.0025	500.0000	451.7606	ug/L	-10	15	
Benzo(g,h,i)perylene	3	0.0210	0.0202	500.0000	451.3158	ug/L	-10	15	
Indeno(1,2,3-cd)pyrene	3	0.0281	0.0255	250.0000	214.0452	ug/L	-14	15	
1-Methylnaphthalene (F)	3	0.0029	0.0029	50000.00	47145.52	ug/L	-6	15	

Jm 21 DEC 2004

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : HPLC02
Seqnum : 274511840013
Calnum : 274483056001
Standards: 04WS1764

Run Name : M
Filename : 35500013
Caldate : 30-NOV-2004

IDF : 1.0
Injected : 20-DEC-2004 16:56
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Naphthalene	1	0.0085	0.0092	5000.000	5375.922	ug/L	8	15	
Acenaphthylene	1	0.0061	0.0065	10000.00	10606.78	ug/L	6	15	
Acenaphthene	1	0.0034	0.0037	5000.000	5426.971	ug/L	9	15	
Fluorene	1	0.0390	0.0436	1000.000	1076.282	ug/L	8	15	
Phenanthrene	1	0.1187	0.1227	500.0000	504.6958	ug/L	1	15	
Anthracene	1	0.3033	0.3228	500.0000	529.8761	ug/L	6	15	
Fluoranthene	1	0.0279	0.0300	1000.000	1075.788	ug/L	8	15	
Pyrene	1	0.0224	0.0223	500.0000	518.1317	ug/L	4	15	
Benzo(a)anthracene	1	0.0635	0.0651	500.0000	508.0328	ug/L	2	15	
Chrysene	1	0.0844	0.0893	500.0000	520.9529	ug/L	4	15	
Benzo(b)fluoranthene	1	0.0689	0.0735	1000.000	1049.293	ug/L	5	15	
Benzo(k)fluoranthene	1	0.0573	0.0594	500.0000	510.4454	ug/L	2	15	
Benzo(a)pyrene	1	0.0613	0.0673	500.0000	559.5703	ug/L	12	15	
Dibenz(a,h)anthracene	1	0.0150	0.0155	1000.000	1044.385	ug/L	4	15	
Benzo(g,h,i)perylene	1	0.0244	0.0267	1000.000	1061.351	ug/L	6	15	
Indeno(1,2,3-cd)pyrene	1	0.0728	0.0780	500.0000	521.9615	ug/L	4	15	
1-Methylnaphthalene (UV)	1	0.0055	0.0053	50000.00	48863.66	ug/L	-2	15	
Acenaphthylene	2	0.0182	0.0194	10000.00	10535.20	ug/L	5	15	
1-Methylnaphthalene (UV)	2	0.0020	0.0019	50000.00	48588.05	ug/L	-3	15	
Naphthalene	3	0.0040	0.0048	5000.000	5749.010	ug/L	15	15	
Acenaphthene	3	0.0031	0.0037	5000.000	5217.506	ug/L	4	15	
Fluorene	3	0.0034	0.0035	1000.000	923.7039	ug/L	-8	15	
Phenanthrene	3	0.0153	0.0159	500.0000	472.6433	ug/L	-5	15	
Anthracene	3	0.0275	0.0310	500.0000	507.1210	ug/L	1	15	
Fluoranthene	3	0.0411	0.0468	1000.000	1045.398	ug/L	5	15	
Pyrene	3	0.0532	0.0590	500.0000	499.9231	ug/L	0	15	
Benzo(a)anthracene	3	0.0622	0.0694	500.0000	513.0093	ug/L	3	15	
Chrysene	3	0.0250	0.0282	500.0000	511.3454	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0328	0.0364	1000.000	1026.866	ug/L	3	15	
Benzo(k)fluoranthene	3	0.0785	0.0877	500.0000	519.7653	ug/L	4	15	
Benzo(a)pyrene	3	0.0861	0.1051	500.0000	572.4358	ug/L	14	15	
Dibenz(a,h)anthracene	3	0.0031	0.0029	1000.000	878.0140	ug/L	-12	15	
Benzo(g,h,i)perylene	3	0.0210	0.0230	1000.000	1013.756	ug/L	1	15	
Indeno(1,2,3-cd)pyrene	3	0.0281	0.0294	500.0000	477.8829	ug/L	-4	15	
1-Methylnaphthalene (F)	3	0.0029	0.0030	50000.00	50066.37	ug/L	0	15	

JM 21DEC2004

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : HPLC02
Seqnum : 274514642003
Calnum : 274483056001
Standards: 04WS2232

Run Name : L
Filename : 35700003
Caldate : 30-NOV-2004

IDF : 1.0
Injected : 22-DEC-2004 10:23
Caltype :

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Naphthalene	1	0.0085	0.0088	2500.000	2437.678	ug/L	-2	15	
Acenaphthylene	1	0.0061	0.0063	5000.000	4892.098	ug/L	-2	15	
Acenaphthene	1	0.0034	0.0036	2500.000	2487.061	ug/L	-1	15	
Fluorene	1	0.0390	0.0422	500.0000	509.1120	ug/L	2	15	
Phenanthrene	1	0.1187	0.1185	250.0000	235.9575	ug/L	-6	15	
Anthracene	1	0.3033	0.3152	250.0000	265.5006	ug/L	6	15	
Fluoranthene	1	0.0279	0.0297	500.0000	516.1716	ug/L	3	15	
Pyrene	1	0.0224	0.0206	250.0000	228.0730	ug/L	-9	15	
Benzo(a)anthracene	1	0.0635	0.0642	250.0000	240.8731	ug/L	-4	15	
Chrysene	1	0.0844	0.0865	250.0000	242.1073	ug/L	-3	15	
Benzo(b)fluoranthene	1	0.0689	0.0720	500.0000	493.3402	ug/L	-1	15	
Benzo(k)fluoranthene	1	0.0573	0.0600	250.0000	247.1499	ug/L	-1	15	
Benzo(a)pyrene	1	0.0613	0.0670	250.0000	265.3670	ug/L	6	15	
Dibenz(a,h)anthracene	1	0.0150	0.0144	500.0000	463.5166	ug/L	-7	15	
Benzo(g,h,i)perylene	1	0.0244	0.0247	500.0000	468.9022	ug/L	-6	15	
Indeno(1,2,3-cd)pyrene	1	0.0728	0.0691	250.0000	219.6682	ug/L	-12	15	
1-Methylnaphthalene (UV)	1	0.0055	0.0049	50000.00	45676.26	ug/L	-9	15	
Acenaphthylene	2	0.0182	0.0186	5000.000	4869.530	ug/L	-3	15	
1-Methylnaphthalene (UV)	2	0.0020	0.0018	50000.00	46130.24	ug/L	-8	15	
Naphthalene	3	0.0040	0.0044	2500.000	2614.177	ug/L	5	15	
Acenaphthene	3	0.0031	0.0031	2500.000	2334.414	ug/L	-7	15	
Fluorene	3	0.0034	0.0029	500.0000	493.2434	ug/L	-1	15	
Phenanthrene	3	0.0153	0.0129	250.0000	225.0949	ug/L	-10	15	
Anthracene	3	0.0275	0.0265	250.0000	234.8502	ug/L	-6	15	
Fluoranthene	3	0.0411	0.0435	500.0000	488.4743	ug/L	-2	15	
Pyrene	3	0.0532	0.0535	250.0000	233.4566	ug/L	-7	15	
Benzo(a)anthracene	3	0.0622	0.0626	250.0000	234.7770	ug/L	-6	15	
Chrysene	3	0.0250	0.0243	250.0000	232.4141	ug/L	-7	15	
Benzo(b)fluoranthene	3	0.0328	0.0329	500.0000	466.8754	ug/L	-7	15	
Benzo(k)fluoranthene	3	0.0785	0.0796	250.0000	236.7343	ug/L	-5	15	
Benzo(a)pyrene	3	0.0861	0.0973	250.0000	265.9070	ug/L	6	15	
Dibenz(a,h)anthracene	3	0.0031	0.0025	500.0000	448.4220	ug/L	-10	15	
Benzo(g,h,i)perylene	3	0.0210	0.0199	500.0000	445.9842	ug/L	-11	15	
Indeno(1,2,3-cd)pyrene	3	0.0281	0.0255	250.0000	214.3841	ug/L	-14	15	
1-Methylnaphthalene (F)	3	0.0029	0.0029	50000.00	47212.56	ug/L	-6	15	

JM 23 DEC 2004

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : HPLC02 Run Name : M IDF : 1.0
Seqnum : 274514642012 Filename : 35700012 Injected : 22-DEC-2004 14:59
Calnum : 274483056001 Caldate : 30-NOV-2004 Caltype :
Standards: 04WS1764

Analyte	Ch	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Naphthalene	1	0.0085	0.0092	5000.000	5364.027	ug/L	7	15	
Acenaphthylene	1	0.0061	0.0066	10000.00	10721.56	ug/L	7	15	
Acenaphthene	1	0.0034	0.0037	5000.000	5460.220	ug/L	9	15	
Fluorene	1	0.0390	0.0441	1000.000	1088.825	ug/L	9	15	
Phenanthrene	1	0.1187	0.1251	500.0000	514.7166	ug/L	3	15	
Anthracene	1	0.3033	0.3293	500.0000	540.2968	ug/L	8	15	
Fluoranthene	1	0.0279	0.0289	1000.000	1036.239	ug/L	4	15	
Pyrene	1	0.0224	0.0226	500.0000	525.5082	ug/L	5	15	
Benzo(a)anthracene	1	0.0635	0.0675	500.0000	527.0716	ug/L	5	15	
Chrysene	1	0.0844	0.0929	500.0000	543.1063	ug/L	9	15	
Benzo(b)fluoranthene	1	0.0689	0.0747	1000.000	1066.821	ug/L	7	15	
Benzo(k)fluoranthene	1	0.0573	0.0619	500.0000	532.7507	ug/L	7	15	
Benzo(a)pyrene	1	0.0613	0.0675	500.0000	561.1567	ug/L	12	15	
Dibenz(a,h)anthracene	1	0.0150	0.0160	1000.000	1083.683	ug/L	8	15	
Benzo(g,h,i)perylene	1	0.0244	0.0275	1000.000	1095.462	ug/L	10	15	
Indeno(1,2,3-cd)pyrene	1	0.0728	0.0782	500.0000	523.8288	ug/L	5	15	
1-Methylnaphthalene (UV)	1	0.0055	0.0053	50000.00	49241.44	ug/L	-2	15	
Acenaphthylene	2	0.0182	0.0195	10000.00	10589.79	ug/L	6	15	
1-Methylnaphthalene (UV)	2	0.0020	0.0020	50000.00	49590.48	ug/L	-1	15	
Naphthalene	3	0.0040	0.0048	5000.000	5760.658	ug/L	15	15	
Acenaphthene	3	0.0031	0.0037	5000.000	5244.741	ug/L	5	15	
Fluorene	3	0.0034	0.0035	1000.000	929.1178	ug/L	-7	15	
Phenanthrene	3	0.0153	0.0160	500.0000	475.5675	ug/L	-5	15	
Anthracene	3	0.0275	0.0311	500.0000	507.2081	ug/L	1	15	
Fluoranthene	3	0.0411	0.0467	1000.000	1042.971	ug/L	4	15	
Pyrene	3	0.0532	0.0593	500.0000	502.1876	ug/L	0	15	
Benzo(a)anthracene	3	0.0622	0.0695	500.0000	514.1892	ug/L	3	15	
Chrysene	3	0.0250	0.0281	500.0000	508.0641	ug/L	2	15	
Benzo(b)fluoranthene	3	0.0328	0.0366	1000.000	1032.100	ug/L	3	15	
Benzo(k)fluoranthene	3	0.0785	0.0880	500.0000	521.5619	ug/L	4	15	
Benzo(a)pyrene	3	0.0861	0.1058	500.0000	576.2169	ug/L	15	15	
Dibenz(a,h)anthracene	3	0.0031	0.0031	1000.000	913.9385	ug/L	-9	15	
Benzo(g,h,i)perylene	3	0.0210	0.0232	1000.000	1020.344	ug/L	2	15	
Indeno(1,2,3-cd)pyrene	3	0.0281	0.0299	500.0000	486.2890	ug/L	-3	15	
1-Methylnaphthalene (F)	3	0.0029	0.0031	50000.00	50401.74	ug/L	1	15	

Cfm 23DEC2004

Sequence Parameters:

Operator:	HPL
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	355
Counter:	00001
Data Directory:	G:\HPLC2\DATA\
Data Subdirectory:	
Part of Methods to run:	According to Runtime Checklist
Wait Time after loading Method:	0 min
Barcode Reader:	not used
Sequence Timeout:	0 min
Shutdown Cmd/Macro:	macro "SHUTDOWN.MAC",go
Sequence Comment:	

Sequence Table:

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	20	IB - 355				
2	21	X,CCV,L,04WS2232				
3	22	CCV,L,04WS2232				
4	23	IB				
5	24	QC276847,97619			.002000	
6	25	QC276848,97619			.002000	
7	26	QC276846,97619			.002000	
8	30	176662-001,97619			.001942	
9	31	176662-002,97619			.001942	
10	32	176662-003,97619			.001887	
11	33	176662-004,97619			.001923	
12	34	IB				
13	35	X,CCV,M,04WS1764				
14	36	CCV,M,04WS1764 ← HPLC STOPPED. HIGH PRESSURE STATUS. Gm				
15	40	IB				
16	41	176705-001,97619			.001905	
17	42	176705-002,97619			.001887	
18	43	176705-003,97619			.001887	
19	44	176705-004,97619			.001887	
20	45	176705-006,97619			.002000	
21	46	176705-007,97619			.001980	
22	50	176723-009,97619			.001942	
23	51	176726-001,97619			.001887	
24	52	176726-002,97619			.001887	
25	53	176734-003,97619			.001887	
26	54	IB				

Sequence: G:\HPLC2\SEQUENCE\122004.S

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
27	55	X,CCVH1,04WS1383				
28	56	CCV,H1,04WS1383				
29	60	IB				
30	61	176662-004,97619			.001923	
31	62	IB				
32	63	X,CCV,L,04WS2232				
33	64	CCV,L,04WS2232				
34	65	IB				

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 274511840 Instrument: HPLC02 High Pressure Liquid Chromatograph #2 Begun: 20-DEC-2004
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	35500001	X	IB - 355			20-DEC-2004 10:40	1.0						
002	35500002	X	CCV			20-DEC-2004 11:10	1.0					1	
003	35500003	CCV	L			20-DEC-2004 11:41	1.0	1.0			10	1	
004	35500004	X	IB			20-DEC-2004 12:12	1.0						
005	35500005	BS	QC276847	97619	Water	20-DEC-2004 12:42	1.0	0.002			10		
006	35500006	BSD	QC276848	97619	Water	20-DEC-2004 13:13	1.0	0.002		1	10		
007	35500007	BLANK	QC276846	97619	Water	20-DEC-2004 13:44	1.0	0.002			10		
008	35500008	SAMPLE	176662-001	97619	Water	20-DEC-2004 14:14	1.0	0.001942			10		
009	35500009	SAMPLE	176662-002	97619	Water	20-DEC-2004 14:45	1.0	0.001942			10		
010	35500010	SAMPLE	176662-003	97619	Water	20-DEC-2004 15:15	1.0	0.001887			10		
012	35500012	X	IB			20-DEC-2004 16:25	1.0						
013	35500013	CCV	M			20-DEC-2004 16:56	1.0	1.0			10	2	

206

Stds used: 1=04WS2232 2=04WS1764

Analyst: Cfm Date: 21 DEC 2004

Sequence Parameters:

Operator:	HPL
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	357
Counter:	00001
Data Directory:	G:\HPLC2\DATA\
Data Subdirectory:	
Part of Methods to run:	According to Runtime Checklist
Wait Time after loading Method:	0 min
Barcode Reader:	not used
Sequence Timeout:	0 min
Shutdown Cmd/Macro:	macro "SHUTDOWN.MAC",go
Sequence Comment:	

Sequence Table:

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	50	IB - 357				
2	51	X,CCV,L,04WS2232				
3	52	CCV,L,04WS2232				
4	53	IB				
5	54	176723-009,97619			.001942	
6	55	176726-001,97619			.001887	
7	56	176726-002,97619			.001887	
8	60	176734-003,97619			.001887	
9	61	176662-004,97619			.001923	
10	62	IB				
11	63	X,CCVM,04WS1764				
12	64	CCV,M,04WS1764				
13	65	IB				

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 274514642 Instrument: HPLC02 High Pressure Liquid Chromatograph #2 Begun: 22-DEC-2004
Analytical Method: EPA 8310 SOP Version: 8310_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	35700001	X	IB - 357			22-DEC-2004 09:22	1.0				
002	35700002	X	CCV			22-DEC-2004 09:53	1.0			1	
003	35700003	CCV	L			22-DEC-2004 10:23	1.0	1.0	10	1	
004	35700004	X	IB			22-DEC-2004 10:54	1.0				
005	35700005	SAMPLE	176723-009	97619	Water	22-DEC-2004 11:25	1.0	0.001942	10		
006	35700006	SAMPLE	176726-001	97619	Water	22-DEC-2004 11:55	1.0	0.001887	10		
007	35700007	SAMPLE	176726-002	97619	Water	22-DEC-2004 12:26	1.0	0.001887	10		
008	35700008	SAMPLE	176734-003	97619	Water	22-DEC-2004 12:56	1.0	0.001887	10		
009	35700009	SAMPLE	176662-004	97619	Water	22-DEC-2004 13:27	1.0	0.001923	10		
010	35700010	X	IB			22-DEC-2004 13:58	1.0				
011	35700011	X	CCVM			22-DEC-2004 14:28	1.0			2	
012	35700012	CCV	M			22-DEC-2004 14:59	1.0	1.0	10	2	
013	35700013	X	IB			22-DEC-2004 15:30	1.0				

208

Stds used: 1=04WS2232 2=04WS1764

Analyst: Jm Date: 23 DEC 2004

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 8310 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
176662-001	Naphthalene	HPLC02	1	12/20/04 14:14
176662-001	Acenaphthylene	HPLC02	1	12/20/04 14:14
176662-001	Acenaphthene	HPLC02	1	12/20/04 14:14
176662-001	Fluorene	HPLC02	1	12/20/04 14:14
176662-001	Phenanthrene	HPLC02	3	12/20/04 14:14
176662-001	Anthracene	HPLC02	3	12/20/04 14:14
176662-001	Fluoranthene	HPLC02	3	12/20/04 14:14
176662-001	Pyrene	HPLC02	3	12/20/04 14:14
176662-001	Benzo(a)anthracene	HPLC02	3	12/20/04 14:14
176662-001	Chrysene	HPLC02	3	12/20/04 14:14
176662-001	Benzo(b)fluoranthene	HPLC02	3	12/20/04 14:14
176662-001	Benzo(k)fluoranthene	HPLC02	3	12/20/04 14:14
176662-001	Benzo(a)pyrene	HPLC02	3	12/20/04 14:14
176662-001	Dibenz(a,h)anthracene	HPLC02	3	12/20/04 14:14
176662-001	Benzo(g,h,i)perylene	HPLC02	3	12/20/04 14:14
176662-001	Indeno(1,2,3-cd)pyrene	HPLC02	3	12/20/04 14:14
176662-001	1-Methylnaphthalene (UV)	HPLC02	1	12/20/04 14:14
176662-001	1-Methylnaphthalene (F)	HPLC02	3	12/20/04 14:14
176662-002	Naphthalene	HPLC02	1	12/20/04 14:45
176662-002	Acenaphthylene	HPLC02	1	12/20/04 14:45
176662-002	Acenaphthene	HPLC02	1	12/20/04 14:45
176662-002	Fluorene	HPLC02	1	12/20/04 14:45
176662-002	Phenanthrene	HPLC02	3	12/20/04 14:45
176662-002	Anthracene	HPLC02	3	12/20/04 14:45
176662-002	Fluoranthene	HPLC02	3	12/20/04 14:45
176662-002	Pyrene	HPLC02	3	12/20/04 14:45
176662-002	Benzo(a)anthracene	HPLC02	3	12/20/04 14:45
176662-002	Chrysene	HPLC02	3	12/20/04 14:45
176662-002	Benzo(b)fluoranthene	HPLC02	3	12/20/04 14:45
176662-002	Benzo(k)fluoranthene	HPLC02	3	12/20/04 14:45
176662-002	Benzo(a)pyrene	HPLC02	3	12/20/04 14:45
176662-002	Dibenz(a,h)anthracene	HPLC02	3	12/20/04 14:45
176662-002	Benzo(g,h,i)perylene	HPLC02	3	12/20/04 14:45
176662-002	Indeno(1,2,3-cd)pyrene	HPLC02	3	12/20/04 14:45
176662-002	1-Methylnaphthalene (UV)	HPLC02	1	12/20/04 14:45
176662-002	1-Methylnaphthalene (F)	HPLC02	3	12/20/04 14:45
176662-003	Naphthalene	HPLC02	1	12/20/04 15:15
176662-003	Acenaphthylene	HPLC02	1	12/20/04 15:15
176662-003	Acenaphthene	HPLC02	1	12/20/04 15:15
176662-003	Fluorene	HPLC02	1	12/20/04 15:15
176662-003	Phenanthrene	HPLC02	3	12/20/04 15:15
176662-003	Anthracene	HPLC02	3	12/20/04 15:15
176662-003	Fluoranthene	HPLC02	3	12/20/04 15:15
176662-003	Pyrene	HPLC02	3	12/20/04 15:15
176662-003	Benzo(a)anthracene	HPLC02	3	12/20/04 15:15
176662-003	Chrysene	HPLC02	3	12/20/04 15:15
176662-003	Benzo(b)fluoranthene	HPLC02	3	12/20/04 15:15

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 8310 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
176662-003	Benzo(k)fluoranthene	HPLC02	3	12/20/04 15:15
176662-003	Benzo(a)pyrene	HPLC02	3	12/20/04 15:15
176662-003	Dibenz(a,h)anthracene	HPLC02	3	12/20/04 15:15
176662-003	Benzo(g,h,i)perylene	HPLC02	3	12/20/04 15:15
176662-003	Indeno(1,2,3-cd)pyrene	HPLC02	3	12/20/04 15:15
176662-003	1-Methylnaphthalene (UV)	HPLC02	1	12/20/04 15:15
176662-003	1-Methylnaphthalene (F)	HPLC02	3	12/20/04 15:15
176662-004	Naphthalene	HPLC02	1	12/22/04 13:27
176662-004	Acenaphthylene	HPLC02	1	12/22/04 13:27
176662-004	Acenaphthene	HPLC02	1	12/22/04 13:27
176662-004	Fluorene	HPLC02	1	12/22/04 13:27
176662-004	Phenanthrene	HPLC02	3	12/22/04 13:27
176662-004	Anthracene	HPLC02	3	12/22/04 13:27
176662-004	Fluoranthene	HPLC02	3	12/22/04 13:27
176662-004	Pyrene	HPLC02	3	12/22/04 13:27
176662-004	Benzo(a)anthracene	HPLC02	3	12/22/04 13:27
176662-004	Chrysene	HPLC02	3	12/22/04 13:27
176662-004	Benzo(b)fluoranthene	HPLC02	3	12/22/04 13:27
176662-004	Benzo(k)fluoranthene	HPLC02	3	12/22/04 13:27
176662-004	Benzo(a)pyrene	HPLC02	3	12/22/04 13:27
176662-004	Dibenz(a,h)anthracene	HPLC02	3	12/22/04 13:27
176662-004	Benzo(g,h,i)perylene	HPLC02	3	12/22/04 13:27
176662-004	Indeno(1,2,3-cd)pyrene	HPLC02	3	12/22/04 13:27
176662-004	1-Methylnaphthalene (UV)	HPLC02	1	12/22/04 13:27
176662-004	1-Methylnaphthalene (F)	HPLC02	3	12/22/04 13:27
QC276846	Naphthalene	HPLC02	1	12/20/04 13:44
QC276846	Acenaphthylene	HPLC02	1	12/20/04 13:44
QC276846	Acenaphthene	HPLC02	1	12/20/04 13:44
QC276846	Fluorene	HPLC02	1	12/20/04 13:44
QC276846	Phenanthrene	HPLC02	3	12/20/04 13:44
QC276846	Anthracene	HPLC02	3	12/20/04 13:44
QC276846	Fluoranthene	HPLC02	3	12/20/04 13:44
QC276846	Pyrene	HPLC02	3	12/20/04 13:44
QC276846	Benzo(a)anthracene	HPLC02	3	12/20/04 13:44
QC276846	Chrysene	HPLC02	3	12/20/04 13:44
QC276846	Benzo(b)fluoranthene	HPLC02	3	12/20/04 13:44
QC276846	Benzo(k)fluoranthene	HPLC02	3	12/20/04 13:44
QC276846	Benzo(a)pyrene	HPLC02	3	12/20/04 13:44
QC276846	Dibenz(a,h)anthracene	HPLC02	3	12/20/04 13:44
QC276846	Benzo(g,h,i)perylene	HPLC02	3	12/20/04 13:44
QC276846	Indeno(1,2,3-cd)pyrene	HPLC02	3	12/20/04 13:44
QC276846	1-Methylnaphthalene (UV)	HPLC02	1	12/20/04 13:44
QC276846	1-Methylnaphthalene (F)	HPLC02	3	12/20/04 13:44
QC276847	Naphthalene	HPLC02	1	12/20/04 12:42
QC276847	Fluorene	HPLC02	1	12/20/04 12:42
QC276847	Pyrene	HPLC02	3	12/20/04 12:42

Curtis & Tompkins, Ltd.

Reporting Summary for 176662 8310 Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC276847	Benzo(a)pyrene	HPLC02	3	12/20/04 12:42
QC276847	1-Methylnaphthalene (UV)	HPLC02	1	12/20/04 12:42
QC276847	1-Methylnaphthalene (F)	HPLC02	3	12/20/04 12:42
QC276848	Naphthalene	HPLC02	1	12/20/04 13:13
QC276848	Fluorene	HPLC02	1	12/20/04 13:13
QC276848	Pyrene	HPLC02	3	12/20/04 13:13
QC276848	Benzo(a)pyrene	HPLC02	3	12/20/04 13:13
QC276848	1-Methylnaphthalene (UV)	HPLC02	1	12/20/04 13:13
QC276848	1-Methylnaphthalene (F)	HPLC02	3	12/20/04 13:13

Curtis & Tompkins Laboratories Sample Preparation Summary 19-DEC-2004 12:04

Batch Number : 97619
Date Extracted: 17-DEC-2004
Extracted by : Sharon L. Karagozlu
Prep Method : 3520C

Analysis : 8310
Bgroup : N/A
Units : ml
Clean-up :

Spike #1 ID : 04SS443B
Spike #2 ID : 04WS2140B
Spike #3 ID :
SOP Version : 8310w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176662-001		Treadwell & Rollo	Water	1030	ml	2	0.001942	1	7	.1	0		8310		
176662-002		Treadwell & Rollo	Water	1030	ml	2	0.001942	1	7	.1	0		8310		
176662-003		Treadwell & Rollo	Water	1060	ml	2	0.001887	1	7	.1	0		8310		
176662-004		Treadwell & Rollo	Water	1040	ml	2	0.001923	1	7	.1	0		8310		
176705-001		Treadwell & Rollo	Water	1050	ml	2	0.001905	1	7	.1	0		8310		
176705-002		Treadwell & Rollo	Water	1060	ml	2	0.001887	1	7	.1	0		8310		
176705-003		Treadwell & Rollo	Water	1060	ml	2	0.001887	1	7	.1	0		8310		
176705-004		Treadwell & Rollo	Water	1060	ml	2	0.001887	1	7	.1	0		8310		
176705-006		Treadwell & Rollo	Water	1000	ml	2	0.002000	1	7	.1	0		8310		
176705-007		Treadwell & Rollo	Water	1010	ml	2	0.001980	1	7	.1	0		8310		
176723-009		Treadwell & Rollo	Water	1030	ml	2	0.001942	1	7	.1	0		8310		
176726-001		Treadwell & Rollo	Water	1060	ml	2	0.001887	1	7	.1	0		8310		
176726-002		Treadwell & Rollo	Water	1060	ml	2	0.001887	1	7	.1	0		8310		
176734-003		Treadwell & Rollo	Water	1060	ml	2	0.001887	1	5	.1	0		8310		
QC276846	MB		Water	1000	ml	2	0.002000	1		.1	0		8310		
QC276847	BS		Water	1000	ml	2	0.002000	1		.1	1		8310		
QC276848	BSD		Water	1000	ml	2	0.002000	1		.1	1		8310		

Prep Chemist: _____ Reviewed By: _____ Date: 12/19/04

Relinquished By: _____ Received By: _____ Date: 20DEC2004

Curtis & Tompkins, Ltd

8310 WATER PREP LOG

BK1895

LIMS Batch No: 97619
LIMS Analysis: 8310
Extracted by: SLK
Date Extracted: 12/17/04

Extraction Method:
- ☐ EPA 3510c sep. funnel
- ☑ EPA 3520c cont. L/L
- ☐ _____

Page 52

Cleanup Method (if needed):
- ☐ EPA 3640a GPC
- ☐ EPA 3630c Silica Gel

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
MB QC 276846	1000	N/A	2.0		
BS 7	↓	↓	↓		
BSD 8	↓	↓	↓		
1766662-001G	1030	7			
-002G	1030	↓			
-003G	1060				
-004G	1040				
176705-001I	1050				
-002J	1060				
-003J	1060				
-004J	1060				
-006F	1000				
-007F	1010				
176723-009M	1030			*	
176726-001F	1060				
-002F	↓				
176724-003V	1060	5			

12/19/04

0.1 mL of surrogate solution was added to all samples
1.0 mL of matrix spiking solution was added to all spikes
☑ Samples continuously extracted with about 450 mL of CH_2Cl_2
Extraction Start Time: 1730
Extraction End Time: 1130
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed ~~powdered~~ granular Na2SO4
Exchanged 2x with Acetonitrile
Concentrated: ☑ to volumes as noted above ☐ to clean-up volume
Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel
Extracts filtered with 0.45 um PTFE syringe filter

Mfg & Lot# / LIMS # / Time	Date/ Initials
~~OWS~~ 04554438, N*	44412/17/04
OWS2140B	
EM 44302	
	12/18/04 1430
MA	12/19/04
044135439	
044174	
✓	
MA	
Whatman D900	

12/17/04
Extraction Chemist Date

Contined from Page ____

12/19/04

Curtis & Tompkins Laboratories
MDL Summary for EPA 8310 Water 3520

Analyte	Units	HPLC01 1	HPLC01 2	HPLC01 3	HPLC02 1	HPLC02 2	HPLC02 3
Naphthalene	ug/L	02/06/04 0.17		02/06/04 0.082	02/23/04 0.29		02/23/04 0.12
Acenaphthylene	ug/L	02/06/04 0.42	02/06/04 0.72		02/23/04 0.27	02/23/04 0.31	
Acenaphthene	ug/L	02/06/04 0.37		02/06/04 0.10	02/23/04 0.97		02/23/04 0.13
Fluorene	ug/L	02/06/04 0.039		02/06/04 0.023	02/23/04 0.12		02/23/04 0.081
Phenanthrene	ug/L	02/06/04 0.029		02/06/04 0.013	02/23/04 0.071		02/23/04 0.020
Anthracene	ug/L	02/06/04 0.014		02/06/04 0.0098	02/23/04 0.022		02/23/04 0.013
Fluoranthene	ug/L	02/06/04 0.077		02/06/04 0.023	02/23/04 0.078		02/23/04 0.028
Pyrene	ug/L	02/06/04 0.054		02/06/04 0.013	02/23/04 0.086		02/23/04 0.011
Benzo(a)anthracene	ug/L	02/06/04 0.016		02/06/04 0.0079	02/23/04 0.059		02/23/04 0.010
Chrysene	ug/L	02/06/04 0.016		02/06/04 0.013	02/23/04 0.047		02/23/04 0.014
Benzo(b)fluoranthene	ug/L	02/06/04 0.035		02/06/04 0.019	02/23/04 0.061		02/23/04 0.022
Benzo(k)fluoranthene	ug/L	02/06/04 0.037		02/06/04 0.013	02/23/04 0.053		02/23/04 0.011
Benzo(a)pyrene	ug/L	02/06/04 0.028		02/06/04 0.0098	02/23/04 0.079		02/23/04 0.012
Dibenz(a,h)anthracene	ug/L	02/06/04 0.13		02/06/04 0.022	02/23/04 0.18		02/23/04 0.051
Benzo(g,h,i)perylene	ug/L	02/06/04 0.028		02/06/04 0.024	02/23/04 0.15		02/23/04 0.016
Indeno(1,2,3-cd)pyrene	ug/L	02/06/04 0.034		02/06/04 0.013	02/23/04 0.089		02/23/04 0.0098
1-Methylnaphthalene (UV)	ug/L	10/07/03 7.1	10/07/03 6.6		11/19/03 6.0	11/19/03 4.6	
1-Methylnaphthalene (F)	ug/L			10/07/03 8.9			11/19/03 5.3

METALS

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW103	Sampled:	12/14/04
Lab ID:	176662-001	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/21/04
Batch#:	97537		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	5.3	5.0	1.000
Barium	62	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	61,000	5,000	10.00
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	160	100	1.000
Lead	ND	3.0	1.000
Magnesium	160,000	5,000	10.00
Manganese	140	10	1.000
Nickel	120	20	1.000
Potassium	3,000	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	97,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW104	Batch#:	97537
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Filtrate	Received:	12/15/04
Units:	ug/L	Prepared:	12/16/04

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	12/21/04
Antimony	ND	1.0	1.000	12/21/04
Arsenic	ND	5.0	1.000	12/21/04
Barium	210	50	5.000	12/22/04
Beryllium	ND	2.0	1.000	12/21/04
Cadmium	ND	1.0	1.000	12/21/04
Calcium	80,000	2,500	5.000	12/22/04
Chromium	ND	10	1.000	12/21/04
Cobalt	ND	10	1.000	12/21/04
Copper	ND	1.0	1.000	12/21/04
Iron	190	100	1.000	12/21/04
Lead	ND	3.0	1.000	12/21/04
Magnesium	200,000	5,000	10.00	12/22/04
Manganese	63	10	1.000	12/21/04
Nickel	ND	20	1.000	12/21/04
Potassium	1,800	500	1.000	12/21/04
Selenium	ND	5.0	1.000	12/21/04
Silver	ND	1.0	1.000	12/21/04
Sodium	88,000	2,500	5.000	12/22/04
Thallium	ND	1.0	1.000	12/21/04
Vanadium	ND	10	1.000	12/21/04
Zinc	ND	20	1.000	12/21/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW105	Batch#:	97537
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Filtrate	Received:	12/15/04
Units:	ug/L	Prepared:	12/16/04

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	12/21/04
Antimony	ND	1.0	1.000	12/21/04
Arsenic	ND	5.0	1.000	12/21/04
Barium	280	50	5.000	12/22/04
Beryllium	ND	2.0	1.000	12/21/04
Cadmium	ND	1.0	1.000	12/21/04
Calcium	44,000	2,500	5.000	12/22/04
Chromium	13	10	1.000	12/21/04
Cobalt	ND	10	1.000	12/21/04
Copper	ND	1.0	1.000	12/21/04
Iron	ND	100	1.000	12/21/04
Lead	ND	3.0	1.000	12/21/04
Magnesium	100,000	5,000	10.00	12/22/04
Manganese	ND	10	1.000	12/21/04
Nickel	ND	20	1.000	12/21/04
Potassium	670	500	1.000	12/21/04
Selenium	ND	5.0	1.000	12/21/04
Silver	ND	1.0	1.000	12/21/04
Sodium	66,000	2,500	5.000	12/22/04
Thallium	ND	1.0	1.000	12/21/04
Vanadium	ND	10	1.000	12/21/04
Zinc	ND	20	1.000	12/21/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW106	Batch#:	97537
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Filtrate	Received:	12/15/04
Units:	ug/L	Prepared:	12/16/04

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	12/21/04
Antimony	ND	1.0	1.000	12/21/04
Arsenic	ND	5.0	1.000	12/21/04
Barium	98	10	1.000	12/21/04
Beryllium	ND	2.0	1.000	12/21/04
Cadmium	ND	1.0	1.000	12/21/04
Calcium	52,000	2,500	5.000	12/22/04
Chromium	ND	10	1.000	12/21/04
Cobalt	ND	10	1.000	12/21/04
Copper	ND	1.0	1.000	12/21/04
Iron	110	100	1.000	12/21/04
Lead	ND	3.0	1.000	12/21/04
Magnesium	140,000	5,000	10.00	12/22/04
Manganese	65	10	1.000	12/21/04
Nickel	ND	20	1.000	12/21/04
Potassium	1,500	500	1.000	12/21/04
Selenium	ND	5.0	1.000	12/21/04
Silver	ND	1.0	1.000	12/21/04
Sodium	65,000	2,500	5.000	12/22/04
Thallium	ND	1.0	1.000	12/21/04
Vanadium	ND	10	1.000	12/21/04
Zinc	ND	20	1.000	12/21/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW102	Batch#:	97537
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Filtrate	Received:	12/15/04
Units:	ug/L	Prepared:	12/16/04

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	12/21/04
Antimony	ND	1.0	1.000	12/21/04
Arsenic	5.8	5.0	1.000	12/21/04
Barium	ND	10	1.000	12/21/04
Beryllium	ND	2.0	1.000	12/21/04
Cadmium	ND	1.0	1.000	12/21/04
Calcium	2,500	500	1.000	12/21/04
Chromium	ND	10	1.000	12/21/04
Cobalt	ND	10	1.000	12/21/04
Copper	ND	1.0	1.000	12/21/04
Iron	ND	100	1.000	12/21/04
Lead	ND	3.0	1.000	12/21/04
Magnesium	93,000	2,500	5.000	12/22/04
Manganese	ND	10	1.000	12/21/04
Nickel	ND	20	1.000	12/21/04
Potassium	6,000	500	1.000	12/21/04
Selenium	ND	5.0	1.000	12/21/04
Silver	ND	1.0	1.000	12/21/04
Sodium	110,000	5,000	10.00	12/22/04
Thallium	ND	1.0	1.000	12/21/04
Vanadium	ND	10	1.000	12/21/04
Zinc	ND	20	1.000	12/21/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW103	Batch#:	97537
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Filtrate	Received:	12/15/04
Units:	ug/L	Prepared:	12/16/04

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	ND	100	1.000	12/21/04
Antimony	ND	1.0	1.000	12/21/04
Arsenic	ND	5.0	1.000	12/21/04
Barium	58	10	1.000	12/21/04
Beryllium	ND	2.0	1.000	12/21/04
Cadmium	ND	1.0	1.000	12/21/04
Calcium	24,000	2,500	5.000	12/22/04
Chromium	46	10	1.000	12/21/04
Cobalt	ND	10	1.000	12/21/04
Copper	ND	1.0	1.000	12/21/04
Iron	ND	100	1.000	12/21/04
Lead	ND	3.0	1.000	12/21/04
Magnesium	99,000	2,500	5.000	12/22/04
Manganese	ND	10	1.000	12/21/04
Nickel	ND	20	1.000	12/21/04
Potassium	1,200	500	1.000	12/21/04
Selenium	ND	5.0	1.000	12/21/04
Silver	ND	1.0	1.000	12/21/04
Sodium	100,000	5,000	10.00	12/22/04
Thallium	ND	1.0	1.000	12/21/04
Vanadium	ND	10	1.000	12/21/04
Zinc	ND	20	1.000	12/21/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF5GW104	Sampled:	12/14/04
Lab ID:	176662-007	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/22/04
Batch#:	97537		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	72	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	28,000	2,500	5.000
Chromium	33	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	93,000	2,500	5.000
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	950	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	120,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF10GW100	Sampled:	12/14/04
Lab ID:	176662-008	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/22/04
Batch#:	97537		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	140	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	60,000	2,500	5.000
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	1.1	1.0	1.000
Iron	130	100	1.000
Lead	ND	3.0	1.000
Magnesium	100,000	5,000	10.00
Manganese	ND	10	1.000
Nickel	ND	20	1.000
Potassium	760	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	190,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	11	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF10SP01	Sampled:	12/14/04
Lab ID:	176662-009	Received:	12/15/04
Matrix:	Water	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/22/04
Batch#:	97537		

Analyte	Result	RL	Diln Fac
Aluminum	100	100	1.000
Antimony	ND	1.0	1.000
Arsenic	6.0	5.0	1.000
Barium	23	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	39,000	2,500	5.000
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	1.3	1.0	1.000
Iron	3,400	100	1.000
Lead	6.8	3.0	1.000
Magnesium	44,000	2,500	5.000
Manganese	260	50	5.000
Nickel	ND	20	1.000
Potassium	3,400	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	59,000	2,500	5.000
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF10SP01	Sampled:	12/14/04
Lab ID:	176662-009	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/22/04
Batch#:	97537		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	14	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	37,000	2,500	5.000
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	290	100	1.000
Lead	ND	3.0	1.000
Magnesium	41,000	2,500	5.000
Manganese	170	10	1.000
Nickel	ND	20	1.000
Potassium	3,400	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	57,000	2,500	5.000
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276516	Batch#:	97537
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/21/04

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	12/14/04
Matrix:	Filtrate	Received:	12/15/04
Units:	ug/L	Prepared:	12/22/04
Diln Fac:	1.000	Analyzed:	12/22/04
Batch#:	97737		

Field ID	Type	Lab ID	Result	RL
LF4GW103	SAMPLE	176662-001	ND	0.20
LF4GW104	SAMPLE	176662-002	ND	0.20
LF4GW105	SAMPLE	176662-003	ND	0.20
LF4GW106	SAMPLE	176662-004	ND	0.20
LF5GW102	SAMPLE	176662-005	ND	0.20
LF5GW103	SAMPLE	176662-006	ND	0.20
LF5GW104	SAMPLE	176662-007	ND	0.20
LF10GW100	SAMPLE	176662-008	ND	0.20
LF10SP01	SAMPLE	176662-009	ND	0.20
	BLANK	QC277279	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Sampled:	12/14/04
Field ID:	LF10SP01	Received:	12/15/04
Units:	ug/L	Prepared:	12/22/04
Diln Fac:	1.000	Analyzed:	12/22/04
Batch#:	97737		

Type	Lab ID	Matrix	Result	RL
SAMPLE	176662-009	Water	ND	0.20
BLANK	QC277279	Filtrate	ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	97537
Units:	ug/L	Prepared:	12/16/04
Diln Fac:	1.000	Analyzed:	12/21/04

Type: BS Lab ID: QC276517

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	93.74	94	80-120
Antimony	100.0	94.45	94	80-120
Arsenic	100.0	101.9	102	80-120
Barium	100.0	99.92	100	80-120
Beryllium	100.0	101.4	101	80-120
Cadmium	100.0	100.3	100	80-120
Calcium	10,000	10,150	102	80-120
Chromium	100.0	93.95	94	80-120
Cobalt	100.0	94.70	95	80-120
Copper	100.0	103.5	104	80-120
Iron	10,000	10,400	104	80-120
Lead	100.0	96.35	96	80-120
Magnesium	10,000	10,230	102	80-120
Manganese	100.0	93.13	93	80-120
Nickel	100.0	102.9	103	80-120
Potassium	10,000	10,140	101	80-120
Selenium	100.0	102.8	103	80-120
Silver	100.0	93.47	93	80-120
Sodium	10,000	10,070	101	80-120
Thallium	100.0	90.81	91	80-120
Vanadium	100.0	91.38	91	80-120
Zinc	100.0	100.7	101	80-120

Type: BSD Lab ID: QC276518

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	94.01	94	80-120	0	20
Antimony	100.0	95.89	96	80-120	2	20
Arsenic	100.0	101.1	101	80-120	1	20
Barium	100.0	100.5	101	80-120	1	20
Beryllium	100.0	102.0	102	80-120	1	20
Cadmium	100.0	101.3	101	80-120	1	20
Calcium	10,000	10,310	103	80-120	2	20
Chromium	100.0	94.69	95	80-120	1	20
Cobalt	100.0	95.20	95	80-120	1	20
Copper	100.0	103.7	104	80-120	0	20
Iron	10,000	10,450	105	80-120	0	20
Lead	100.0	97.00	97	80-120	1	20
Magnesium	10,000	10,260	103	80-120	0	20
Manganese	100.0	93.83	94	80-120	1	20
Nickel	100.0	103.6	104	80-120	1	20
Potassium	10,000	10,230	102	80-120	1	20
Selenium	100.0	95.33	95	80-120	8	20
Silver	100.0	93.50	94	80-120	0	20
Sodium	10,000	10,100	101	80-120	0	20
Thallium	100.0	92.79	93	80-120	2	20
Vanadium	100.0	91.31	91	80-120	0	20
Zinc	100.0	102.0	102	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	97737
Field ID:	LF4GW103	Sampled:	12/14/04
MSS Lab ID:	176662-001	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/22/04
Units:	ug/L	Analyzed:	12/22/04
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC277280		5.000	4.460	89	80-120		
BSD	QC277281		5.000	4.560	91	80-120	2	20
MS	QC277282	<0.04600	5.000	4.460	89	75-125		
MSD	QC277283		5.000	4.550	91	75-125	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW103	Sampled:	12/14/04
MSS Lab ID:	176662-001	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/21/04
Batch#:	97537		

Type: MS Lab ID: QC276519

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	1.105	100.0	96.59	95	75-125	1.000
Antimony	0.3742	100.0	101.4	101	75-125	1.000
Arsenic	5.291	100.0	107.2	102	75-125	1.000
Barium	61.90	100.0	170.7	109	75-125	1.000
Beryllium	<0.1400	100.0	102.6	103	75-125	1.000
Cadmium	<0.2000	100.0	96.02	96	75-125	1.000
Calcium	60,580	10,000	64,370	38 NM	75-125	20.00
Chromium	0.9446	100.0	94.97	94	75-125	1.000
Cobalt	0.7210	100.0	92.88	92	75-125	1.000
Copper	0.5296	100.0	97.80	97	75-125	1.000
Iron	162.6	10,000	10,340	102	75-125	1.000
Lead	<0.04800	100.0	100.6	101	75-125	1.000
Magnesium	162,000	10,000	185,000	230 NM	75-125	20.00
Manganese	135.9	100.0	226.8	91	75-125	20.00
Nickel	119.9	100.0	241.9	122	75-125	20.00
Potassium	3,034	10,000	13,160	101	75-125	1.000
Selenium	2.974	100.0	100.8	98	75-125	1.000
Silver	<0.1600	100.0	88.68	89	75-125	1.000
Sodium	97,430	10,000	114,900	175 NM	75-125	20.00
Thallium	0.9664	100.0	80.38	79	75-125	1.000
Vanadium	4.068	100.0	110.0	106	75-125	1.000
Zinc	3.060	100.0	101.6	99	75-125	1.000

Type: MSD Lab ID: QC276520

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	94.61	94	75-125	2	20	1.000
Antimony	100.0	100.8	100	75-125	1	20	1.000
Arsenic	100.0	106.5	101	75-125	1	20	1.000
Barium	100.0	168.5	107	75-125	1	20	1.000
Beryllium	100.0	101.7	102	75-125	1	20	1.000
Cadmium	100.0	96.17	96	75-125	0	20	1.000
Calcium	10,000	63,650	31 NM	75-125	1	20	20.00
Chromium	100.0	94.32	93	75-125	1	20	1.000
Cobalt	100.0	92.57	92	75-125	0	20	1.000
Copper	100.0	99.09	99	75-125	1	20	1.000
Iron	10,000	10,290	101	75-125	0	20	1.000
Lead	100.0	100.9	101	75-125	0	20	1.000
Magnesium	10,000	181,000	190 NM	75-125	2	20	20.00
Manganese	100.0	225.0	89	75-125	1	20	20.00
Nickel	100.0	238.8	119	75-125	1	20	20.00
Potassium	10,000	13,030	100	75-125	1	20	1.000
Selenium	100.0	97.97	95	75-125	3	20	1.000
Silver	100.0	88.45	88	75-125	0	20	1.000
Sodium	10,000	111,900	145 NM	75-125	3	20	20.00
Thallium	100.0	87.84	87	75-125	9	20	1.000
Vanadium	100.0	107.0	103	75-125	3	20	1.000
Zinc	100.0	99.27	96	75-125	2	20	1.000

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW103	Units:	ug/L
Type:	Serial Dilution	Batch#:	97537
MSS Lab ID:	176662-001	Sampled:	12/14/04
Lab ID:	QC276521	Received:	12/15/04
Matrix:	Filtrate		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed
Aluminum	ND	100.0	ND	250		10	5.000	12/21/04
Antimony	ND	1.000	0.39 J	5.0		10	5.000	12/21/04
Arsenic	5.291	5.000	5.2	5.0		10	5.000	12/21/04
Barium	61.90	10.00	59	5.0	5	10	5.000	12/21/04
Beryllium	ND	2.000	ND	5.0		10	5.000	12/21/04
Cadmium	ND	1.000	ND	5.0		10	5.000	12/21/04
Calcium	60,580	5,000	52,000	2,500	14 *	10	50.00	12/21/04
Chromium	ND	10.00	2.1 J	5.0		10	5.000	12/21/04
Cobalt	ND	10.00	0.67 J	5.0		10	5.000	12/21/04
Copper	ND	1.000	ND	5.0		10	5.000	12/21/04
Iron	162.6	100.0	160 J	250		10	5.000	12/21/04
Lead	ND	3.000	ND	5.0		10	5.000	12/21/04
Magnesium	162,000	5,000	170,000	2,500	4	10	50.00	12/21/04
Manganese	135.9	10.00	120	5.0	10	10	5.000	12/22/04
Nickel	119.9	20.00	120	5.0	1	10	5.000	12/21/04
Potassium	3,034	500.0	3,000	250	2	10	5.000	12/21/04
Selenium	ND	5.000	ND	5.0		10	5.000	12/21/04
Silver	ND	1.000	ND	5.0		10	5.000	12/21/04
Sodium	97,430	5,000	98,000	2,500	0	10	50.00	12/21/04
Thallium	ND	1.000	ND	5.0		10	5.000	12/21/04
Vanadium	ND	10.00	7.5	5.0		10	5.000	12/21/04
Zinc	ND	20.00	3.5 J	5.0		10	5.000	12/21/04

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6020

Instid : MET05
Seqnum : 54514758067
Filename : l2211067
IDF : 1.0
PDF : 1.0
Run type : PDS
Samplenum: QC277377
Matrix : Filtrate
Batchnum : 97537
Inj : 22-DEC-2004 17:40
Units : ug/L

MSS : 176662-001

Analyte	MSS Seqnum	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	54513829023	1.105	100	105.1	104	75-125	u
Antimony	54513829023	0.3742	100	107.7	107	75-125	u
Arsenic	54513829023	5.291	100	107.0	102	75-125	u
Barium	54513829023	61.90	100	170.1	108	75-125	u
Beryllium	54513829023	ND	100	100.6	101	75-125	u
Cadmium	54513829023	ND	100	97.16	97	75-125	u
Calcium	*** usable MSS data not found ***						
Chromium	54513829023	0.9446	100	91.95	91	75-125	u
Cobalt	54513829023	0.7210	100	89.54	89	75-125	u
Copper	54513829023	0.5296	100	97.70	97	75-125	u
Iron	54513829023	162.6	10000	10260	101	75-125	u
Lead	54513829023	ND	100	101.6	102	75-125	u
Magnesium	*** usable MSS data not found ***						
Manganese	54513829023	135.9	100	229.2	>LR	93	75-125	>LR **b***
Molybdenum	54513829023	4.536	100	106.5	102	75-125	
Nickel	54513829023	119.9	100	211.1	>LR	91	75-125	>LR **b***
Potassium	54513829023	3034	10000	13770	107	75-125	u
Selenium	54513829032	2.974	100	102.3	99	75-125	<ib **b***
Silver	54513829023	ND	100	94.01	94	75-125	u
Sodium	*** usable MSS data not found ***						
Thallium	54513829023	0.9664	100	73.40	**72***	75-125	u
Vanadium	54513829023	4.068	100	93.98	90	75-125	<c- >c- **b***
Zinc	54513829023	3.060	100	98.13	95	75-125	u

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	492304	-7.80
Scandium	549173	522731	-4.81
Germanium	107898	103789	-3.81
Indium	920762	771334	-16.23
Bismuth	812644	711784	-12.41
Terbium	1271294	1152815	-9.32

-=low bias <=opening >=closing >LR=overrange b=noncompliant c=CCV ib=instrument blank u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6020

Instid : MET05
Seqnum : 54514758094
Filename : l2211094
IDF : 10.0
PDF : 1.0
Run type : PDS
Samplenum: QC277377
Matrix : Filtrate
Batchnum : 97537
Inj : 22-DEC-2004 20:24
Units : ug/L

MSS : 176662-001

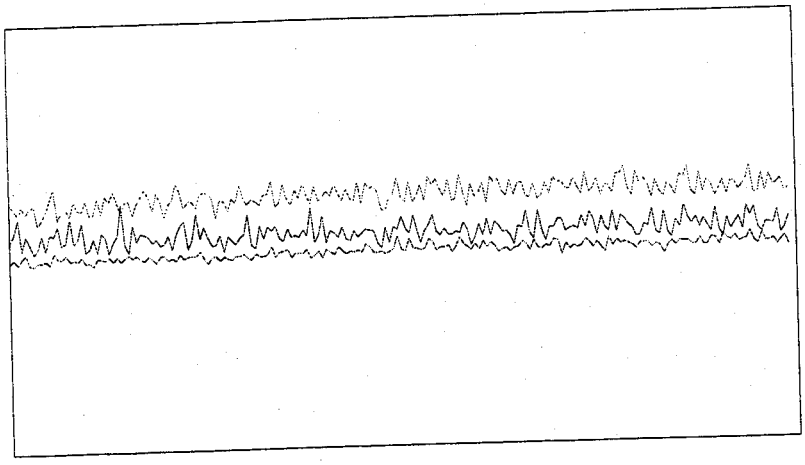
Analyte	MSS Seqnum	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	54513829023	1.105	100	100.1	100	75-125	
Antimony	54513829023	0.3742	100	96.83	97	75-125	
Arsenic	54513829023	5.291	100	98.41	98	75-125	
Barium	54513829023	61.90	100	103.2	97	75-125	
Beryllium	54513829023	ND	100	95.70	96	75-125	
Cadmium	54513829023	ND	100	97.45	97	75-125	
Calcium	54513829034	6058	10000	16660	106	75-125	u
Chromium	54513829023	0.9446	100	88.05	88	75-125	
Cobalt	54513829023	0.7210	100	86.76	87	75-125	
Copper	54513829023	0.5296	100	95.39	95	75-125	
Iron	54513829023	162.6	10000	9895	99	75-125	
Lead	54513829023	ND	100	93.53	94	75-125	
Magnesium	54513829034	16200	10000	27650 >LR	115	75-125	>LR **b***
Manganese	54513829023	135.9	100	104.9	91	75-125	u
Molybdenum	54513829023	4.536	100	96.56	96	75-125	
Nickel	54513829023	119.9	100	106.7	95	75-125	u
Potassium	54513829023	3034	10000	10920	106	75-125	
Selenium	54513829032	2.974	100	95.96	96	75-125	<ib **b***
Silver	54513829023	ND	100	91.40	91	75-125	
Sodium	54513829034	9743	10000	21110 >LR	114	75-125	>LR **b***
Thallium	54513829023	0.9664	100	99.54	99	75-125	
Vanadium	54513829023	4.068	100	86.19	86	75-125	<c- **b***
Zinc	54513829023	3.060	100	95.44	95	75-125	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	502411	-5.91
Scandium	549173	537846	-2.06
Germanium	107898	108078	0.17
Indium	920762	836828	-9.12
Bismuth	812644	771964	-5.01
Terbium	1271294	1192684	-6.18

-=low bias <=opening >LR=overrange b=noncompliant c=CCV ib=instrument blank u=use

Tune Report

Tune File : ATUNE.U



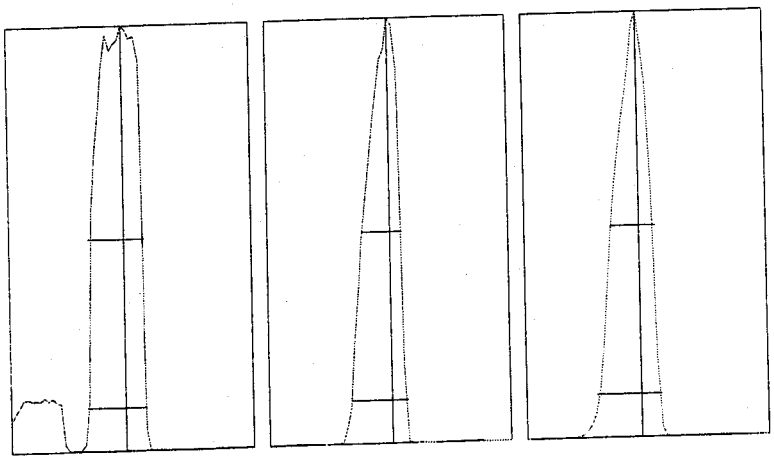
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	10,287	22,305	28,970
Mean:	9991.7	22765.9	29340.3
RSD%:	4.30	2.08	3.68
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.40%
Doubly Charged:	70/140	1.07%

Background:

m/z:	7	89	205
Cps:	101.5	51.5	43.9



m/z:	7	89	205
Height:	9,908	23,807	31,515
Axis:	6.95	89.05	204.95
W-50%:	0.70	0.50	0.55
W-10%:	0.7500	0.700	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===	
RF Power:	1260 W
RF Matching:	1.68 V
Smpl Depth:	8.4 mm
Torch-H:	1.1 mm
Torch-V:	0.1 mm
Carrier Gas:	1.03 L/min
Makeup Gas:	0 L/min
Optional Gas:	--- %
PeriPump1:	0.1 rps
PeriPump2:	--- rps
S/C Temp:	2 degC

===Ion Lenses===	
Extract 1:	-130 V
Extract 2:	-49 V
Einzel 1,3:	-125 V
Einzel 2:	14 V
Omega Bias:	-68 V
Omega (+):	3 V
Omega (-):	2 V
QP Focus:	2 V
Plate Bias:	0 V

===Q-Pole Parameters===	
AMU Gain:	128
AMU Offset:	127
Axis Gain:	1.0002
Axis Offset:	-0.02
QP Bias:	0 V

===Detector Parameters===	
Discriminator:	9.2 mV
Analog HV:	1840 V
Pulse HV:	1400 V

Generated : Dec 21, 2004 09:44:24
Printed : Dec 21, 2004 09:44:30

P/A Factor Tuning Report

Acquired:Dec 21 2004 09:59 am

Mass[amu]	Element	P/A Factor
6	Li	0.067360
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.078788
26	Mg	0.078683
27	Al	0.076854
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.079098
45	Sc	0.079419
51	V	Sensitivity too low
52	Cr	Sensitivity too low
53	Cr	Sensitivity too low
54	Fe	0.077475
55	Mn	Sensitivity too low
57	Fe	0.076218
59	Co	Sensitivity too low
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.074991
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.071345
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.071030
166	Er	Sensitivity too low

Temp.p$$

205	Tl	Sensitivity too low
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	Sensitivity too low
209	Bi	0.066712
232	Th	Sensitivity too low
238	U	Sensitivity too low

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 21 2004 10:07 am

Mass[amu]	Element	P/A Factor
6	Li	0.067520
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.078788
26	Mg	0.078683
27	Al	0.079490
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.082104
45	Sc	0.081401
51	V	0.080624
52	Cr	0.079551
53	Cr	Sensitivity too low
54	Fe	0.077475
55	Mn	0.079609
57	Fe	0.079455
59	Co	0.077778
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.076329
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.071400
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.072913
118	(In)	0.073538
121	Sb	0.072819
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.072812
166	Er	Sensitivity too low

205	Tl	0.068894
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.068222
209	Bi	0.068933
232	Th	0.069547
238	U	0.069786

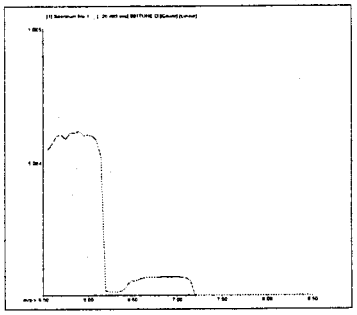
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

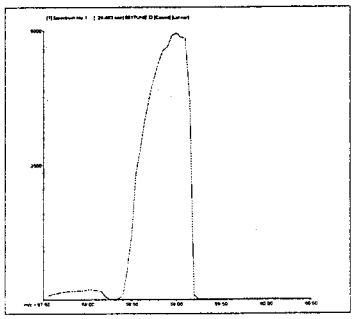
Data File: C:\ICPCHEM\1\DATA\04L2119c.B\001TUNE.D
Date Acquired: Dec 21 2004 07:49 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,04ws2314
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

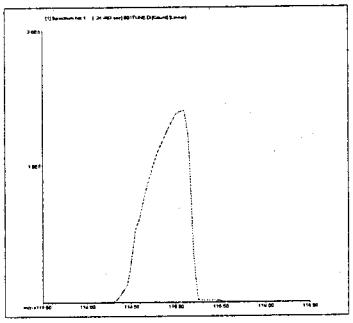
Element	Actual	Required	Flag
7 Li	0.34	5.00	
59 Co	0.95	5.00	
115 In	1.26	5.00	
205 Tl	1.58	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



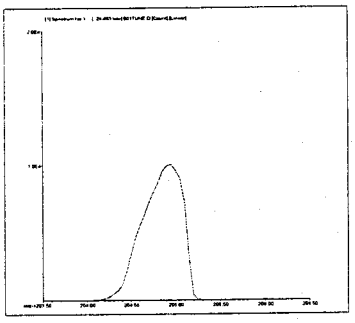
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	204.95	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2119c.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 21 2004 07:54 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 21 2004 00:47 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.01479	ppb	182.29	0.01479	1.00	
23 Na	-7.81	ppb	7.47	-7.81	1.00	
26 Mg	-2.132	ppb	1.88	-2.132	1.00	
27 Al	-2.05	ppb	2.31	-2.05	1.00	
39 K	19.27	ppb	25.52	19.27	1.00	
44 Ca	1.841	ppb	20.16	1.841	1.00	
51 V	-0.1661	ppb	55.95	-0.1661	1.00	
52 Cr	-0.1564	ppb	10.95	-0.1564	1.00	
55 Mn	0.01451	ppb	87.39	0.01451	1.00	
57 Fe	-5.168	ppb	50.23	-5.168	1.00	
59 Co	-0.01628	ppb	26.50	-0.01628	1.00	
60 Ni	0.02344	ppb	58.45	0.02344	1.00	
65 Cu	-0.06119	ppb	16.83	-0.06119	1.00	
66 Zn	0.06297	ppb	92.39	0.06297	1.00	
75 As	-1.481	ppb	13.98	-1.481	1.00	
82 Se	-10.82	ppb	8.76	-10.82	1.00	
95 Mo	-0.04721	ppb	21.46	-0.04721	1.00	
109 Ag	-0.01045	ppb	37.63	-0.01045	1.00	
111 Cd	-0.02112	ppb	285.94	-0.02112	1.00	
121 Sb	-0.01113	ppb	61.77	-0.01113	1.00	
137 Ba	-0.008325	ppb	282.88	-0.008325	1.00	
205 Tl	1.307	ppb	7.42	1.307	1.00	
208 Pb	0.02582	ppb	27.50	0.02582	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	618603.06	2.80	---	#VALUE!	30 - 200	
45 Sc	841196.81	1.75	---	#VALUE!	30 - 200	
72 Ge	145472.45	2.31	---	#VALUE!	30 - 200	

115 In	1318834.50	2.12	---	#VALUE!	30 - 200
209 Bi	1169575.00	1.23	---	#VALUE!	30 - 200

ISTD Ref File : ---

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\003CAL
Date Acquired: Dec 21 2004 08:00 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 00:47 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	634616.38	A	19730.00	3.11
9	Be	92.22	P	15.40	16.70
23	Na	234875.50	P	4028.00	1.72
26	Mg	1127.78	P	91.43	8.11
27	Al	6891.11	P	553.30	8.03
39	K	825445.19	A	8153.00	0.99
44	Ca	3171.71	P	178.30	5.62
45	Sc	843570.00	A	7390.00	0.88
51	V	1452.80	P	575.20	39.59
52	Cr	3013.33	P	68.39	2.27
55	Mn	808.89	P	49.93	6.17
57	Fe	7132.22	P	277.20	3.89
59	Co	284.44	P	18.36	6.45
60	Ni	120.00	P	21.86	18.22
65	Cu	412.22	P	78.62	19.07
66	Zn	651.12	P	43.50	6.68
72	Ge	145277.59	P	2663.00	1.83
75	As	-383.77	P	908.20	236.65
82	Se	1880.51	P	403.80	21.47
95	Mo	113.33	P	30.55	26.96
109	Ag	151.11	P	30.06	19.89
111	Cd	291.73	P	26.13	8.96
115	In	1318660.00	A	18790.00	1.42
121	Sb	147.78	P	17.11	11.58
137	Ba	174.44	P	12.62	7.23
205	Tl	8177.78	P	815.70	9.97
208	Pb	722.22	P	73.81	10.22
209	Bi	1180918.00	A	23500.00	1.99
232	Th	401.11	P	37.17	9.27
238	U	102.22	P	1.93	1.88

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\004CALI.D\004CALI.D#
Date Acquired: Dec 21 2004 08:05 pm
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:02 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	639169.63	A	4688.00	0.73
9 Be	103.33	P	8.82	8.53
23 Na	213962.20	P	3834.00	1.79
26 Mg	365.56	P	28.35	7.76
27 Al	3844.44	P	113.40	2.95
39 K	809719.81	A	16230.00	2.00
44 Ca	3008.22	P	35.13	1.17
45 Sc	835455.50	A	5240.00	0.63
51 V	1432.47	P	513.50	35.85
52 Cr	3013.33	P	115.30	3.83
55 Mn	751.11	P	13.47	1.79
57 Fe	6880.00	P	286.60	4.17
59 Co	306.67	P	5.77	1.88
60 Ni	155.56	P	6.94	4.46
65 Cu	427.78	P	22.19	5.19
66 Zn	748.89	P	99.01	13.22
72 Ge	144632.41	P	2821.00	1.95
75 As	-235.36	P	287.30	122.07
82 Se	1954.31	P	137.60	7.04
95 Mo	65.56	P	5.09	7.77
109 Ag	71.11	P	18.95	26.65
111 Cd	272.22	P	19.85	7.29
115 In	1319980.00	A	24780.00	1.88
121 Sb	104.44	P	18.36	17.58
137 Ba	165.56	P	18.95	11.45
205 Tl	6390.00	P	646.00	10.11
208 Pb	754.44	P	35.01	4.64
209 Bi	1196948.00	A	9596.00	0.80
232 Th	365.56	P	43.50	11.90
238 U	45.56	P	13.47	29.57

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	639169.63	0.73	634616.44	100.7	30 - 200	
45 Sc	835455.56	0.63	843569.94	99.0	30 - 200	
72 Ge	144632.45	1.95	145277.55	99.6	30 - 200	
115 In	1319980.30	1.88	1318660.10	100.1	30 - 200	
209 Bi	1196948.50	0.80	1180918.00	101.4	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\005CALI.D\005CALI.D#
Date Acquired: Dec 21 2004 08:10 pm
Operator:
Sample Name: cs2,04ws2311
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:07 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	641576.13	A	8593.00	1.34
9	Be	827.78	P	33.39	4.03
23	Na	605447.69	P	7574.00	1.25
26	Mg	37647.78	P	554.00	1.47
27	Al	6443.33	P	145.30	2.26
39	K	1160769.00	A	1059.00	0.09
44	Ca	12646.07	P	189.00	1.49
45	Sc	825055.81	A	13340.00	1.62
51	V	5443.81	P	761.90	14.00
52	Cr	6462.22	P	121.20	1.88
55	Mn	5236.67	P	106.90	2.04
57	Fe	15695.55	P	272.70	1.74
59	Co	4015.55	P	58.72	1.46
60	Ni	856.67	P	35.12	4.10
65	Cu	1279.84	P	51.96	4.06
66	Zn	1081.30	P	36.57	3.38
72	Ge	144040.41	P	2963.00	2.06
75	As	328.88	P	235.80	71.70
82	Se	1949.65	P	67.12	3.44
95	Mo	1146.67	P	50.44	4.40
109	Ag	2617.78	P	201.20	7.69
111	Cd	818.14	P	45.39	5.55
115	In	1315938.00	A	6623.00	0.50
121	Sb	2378.89	P	56.70	2.38
137	Ba	1055.56	P	40.32	3.82
205	Tl	10388.89	P	623.90	6.01
208	Pb	8148.89	P	168.30	2.07
209	Bi	1191458.00	A	7952.00	0.67
232	Th	2108.89	P	51.03	2.42
238	U	7294.44	P	125.10	1.72

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	641576.13	1.34	634616.44	101.1	30 - 200	
45 Sc	825055.81	1.62	843569.94	97.8	30 - 200	
72 Ge	144040.45	2.06	145277.55	99.1	30 - 200	
115 In	1315937.60	0.50	1318660.10	99.8	30 - 200	
209 Bi	1191458.10	0.67	1180918.00	100.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\006CALI.D\006CALI.D#
Date Acquired: Dec 21 2004 08:15 pm
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:12 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	625353.19	A	4282.00	0.68
9	Be	1087.78	P	17.11	1.57
23	Na	792005.31	A	5237.00	0.66
26	Mg	47836.66	P	523.20	1.09
27	Al	7164.44	P	160.20	2.24
39	K	1286322.00	A	13630.00	1.06
44	Ca	15405.89	P	400.80	2.60
45	Sc	825472.13	A	2776.00	0.34
51	V	6687.24	P	429.30	6.42
52	Cr	7465.56	P	228.00	3.05
55	Mn	6513.33	P	65.57	1.01
57	Fe	18008.89	P	480.00	2.67
59	Co	5128.89	P	213.00	4.15
60	Ni	1133.33	P	26.46	2.33
65	Cu	1502.01	P	28.35	1.89
66	Zn	1269.13	P	33.39	2.63
72	Ge	142092.91	P	1746.00	1.23
75	As	407.63	P	268.00	65.75
82	Se	1950.25	P	133.30	6.84
95	Mo	1424.44	P	78.20	5.49
109	Ag	3412.22	P	149.20	4.37
111	Cd	953.87	P	68.81	7.21
115	In	1299759.00	A	4059.00	0.31
121	Sb	3158.89	P	95.76	3.03
137	Ba	1298.89	P	44.76	3.45
205	Tl	10753.33	P	645.80	6.01
208	Pb	10052.22	P	127.90	1.27
209	Bi	1172861.00	A	9720.00	0.83
232	Th	3436.67	P	251.30	7.31
238	U	9428.89	P	60.77	0.64

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	625353.13	0.68	634616.44	98.5	30 - 200	
45 Sc	825472.13	0.34	843569.94	97.9	30 - 200	
72 Ge	142092.89	1.23	145277.55	97.8	30 - 200	
115 In	1299759.00	0.31	1318660.10	98.6	30 - 200	
209 Bi	1172861.00	0.83	1180918.00	99.3	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\007CALI.D\007CALI.D#
Date Acquired: Dec 21 2004 08:21 pm
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:17 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	623835.63	A	2820.00	0.45
9 Be	7873.33	P	160.10	2.03
23 Na	4599521.00	A	67220.00	1.46
26 Mg	391520.00	P	3914.00	1.00
27 Al	33544.44	P	776.10	2.31
39 K	4489974.00	A	22220.00	0.49
44 Ca	104373.30	P	1398.00	1.34
45 Sc	827338.00	A	10950.00	1.32
51 V	45021.19	P	562.90	1.25
52 Cr	39982.22	P	699.50	1.75
55 Mn	48272.22	P	1117.00	2.31
57 Fe	102412.20	P	2063.00	2.01
59 Co	39347.78	P	567.40	1.44
60 Ni	8572.22	P	123.00	1.43
65 Cu	9626.07	P	497.50	5.17
66 Zn	5638.62	P	123.50	2.19
72 Ge	144159.80	P	3204.00	2.22
75 As	5171.12	P	152.70	2.95
82 Se	2353.08	P	91.89	3.91
95 Mo	11706.67	P	265.20	2.27
109 Ag	26834.44	P	579.20	2.16
111 Cd	5821.22	P	212.40	3.65
115 In	1303789.00	A	9231.00	0.71
121 Sb	24812.22	P	755.80	3.05
137 Ba	9268.89	P	407.80	4.40
205 Tl	58253.33	P	1665.00	2.86
208 Pb	77177.78	P	1778.00	2.30
209 Bi	1168353.00	A	10450.00	0.89
232 Th	30256.67	P	633.60	2.09
238 U	75324.44	P	2545.00	3.38

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	623835.63	0.45	634616.44	98.3	30 - 200	
45 Sc	827338.00	1.32	843569.94	98.1	30 - 200	
72 Ge	144159.78	2.22	145277.55	99.2	30 - 200	
115 In	1303789.40	0.71	1318660.10	98.9	30 - 200	
209 Bi	1168353.50	0.89	1180918.00	98.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\008CALI.D\008CALI.D#
Date Acquired: Dec 21 2004 08:26 pm
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:23 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	618187.13	A	7730.00	1.25
9 Be	95267.78	P	1485.00	1.56
23 Na	52257380.00	A	350900.00	0.67
26 Mg	5015455.00	A	102200.00	2.04
27 Al	380163.31	P	7864.00	2.07
39 K	45008632.00	A	260200.00	0.58
44 Ca	1414829.00	A	17430.00	1.23
45 Sc	816195.19	A	10310.00	1.26
51 V	542346.00	P	12400.00	2.29
52 Cr	461771.09	P	11720.00	2.54
55 Mn	589891.13	P	14370.00	2.44
57 Fe	1323696.00	A	10220.00	0.77
59 Co	479061.09	P	14280.00	2.98
60 Ni	101701.10	P	3526.00	3.47
65 Cu	111215.70	P	2929.00	2.63
66 Zn	62577.30	P	1689.00	2.70
72 Ge	146403.59	P	5341.00	3.65
75 As	66488.38	P	2072.00	3.12
82 Se	6133.33	P	367.70	6.00
95 Mo	145547.80	P	3538.00	2.43
109 Ag	329813.31	P	8924.00	2.71
111 Cd	70803.99	P	1873.00	2.65
115 In	1257001.00	A	12500.00	0.99
121 Sb	312685.50	P	9233.00	2.95
137 Ba	112682.20	P	3501.00	3.11
205 Tl	795375.38	A	6153.00	0.77
208 Pb	967805.31	M	57040.00	5.89
209 Bi	1134715.00	A	5402.00	0.48
232 Th	956973.38	A	43290.00	4.52
238 U	1121611.00	A	18000.00	1.60

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	618187.06	1.25	634616.44	97.4	30 - 200	
45 Sc	816195.25	1.26	843569.94	96.8	30 - 200	
72 Ge	146403.55	3.65	145277.55	100.8	30 - 200	
115 In	1257000.80	0.99	1318660.10	95.3	30 - 200	
209 Bi	1134715.30	0.48	1180918.00	96.1	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\009CALI.D\009CALI.D#
Date Acquired: Dec 21 2004 08:31 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:28 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	619317.13	A	6777.00	1.09
9 Be	191665.59	P	3202.00	1.67
23 Na	102623200.00	A	443100.00	0.43
26 Mg	9875007.00	A	92470.00	0.94
27 Al	825775.81	A	9052.00	1.10
39 K	88063056.00	A	1145000.00	1.30
44 Ca	2772377.00	A	31300.00	1.13
45 Sc	816774.00	A	9017.00	1.10
51 V	1241264.00	A	18810.00	1.52
52 Cr	1008405.00	A	16360.00	1.62
55 Mn	1305603.00	A	9815.00	0.75
57 Fe	2569018.00	A	25810.00	1.00
59 Co	1048715.00	A	10740.00	1.02
60 Ni	202656.70	P	5462.00	2.70
65 Cu	221565.91	P	6003.00	2.71
66 Zn	122746.00	P	3349.00	2.73
72 Ge	148922.00	P	4014.00	2.70
75 As	134928.70	P	3996.00	2.96
82 Se	10473.34	P	346.50	3.31
95 Mo	294483.31	P	6668.00	2.26
109 Ag	734777.69	A	67490.00	9.19
111 Cd	141474.09	P	3828.00	2.71
115 In	1262255.00	A	17700.00	1.40
121 Sb	685715.69	A	5937.00	0.87
137 Ba	225771.09	P	5920.00	2.62
205 Tl	1586256.00	A	19340.00	1.22
208 Pb	2010509.00	A	44710.00	2.22
209 Bi	1130154.00	A	5420.00	0.48
232 Th	2208394.00	A	44390.00	2.01
238 U	2209062.00	A	10770.00	0.49

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	619317.06	1.09	634616.44	97.6	30 - 200	
45 Sc	816774.00	1.10	843569.94	96.8	30 - 200	
72 Ge	148922.00	2.70	145277.55	102.5	30 - 200	
115 In	1262254.60	1.40	1318660.10	95.7	30 - 200	
209 Bi	1130154.10	0.48	1180918.00	95.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 21, 2004 20:53
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412119c.b\003calb.d\	003calb.d#	Dec 21 2004 08:00 pm
2	...hem\1\data\0412119c.b\004cali.d\	004cali.d#	Dec 21 2004 08:05 pm
3	...hem\1\data\0412119c.b\005cali.d\	005cali.d#	Dec 21 2004 08:10 pm
4	...hem\1\data\0412119c.b\006cali.d\	006cali.d#	Dec 21 2004 08:15 pm
5	...hem\1\data\0412119c.b\007cali.d\	007cali.d#	Dec 21 2004 08:21 pm
6	...hem\1\data\0412119c.b\008cali.d\	008cali.d#	Dec 21 2004 08:26 pm
7	...hem\1\data\0412119c.b\009cali.d\	009cali.d#	Dec 21 2004 08:31 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 7.742E-2*X -2.266E-2	1.0000	ppb
Na	23	45	Y = 3.146E-1*X +9.890E+0	0.9999	ppb
Mg	25	45	Y = 2.650E-2*X -5.490E-1	0.9999	ppb
Mg	26	45	Y = 3.037E-2*X -8.761E-1	0.9999	ppb
Al	27	45	Y = 2.493E-1*X -9.096E-2	0.9991	ppb
K	39	45	Y = 2.680E-1*X +4.466E+1	0.9999	ppb
Ca	43	45	Y = 4.770E-4*X -1.618E-2	0.9999	ppb
Ca	44	45	Y = 8.529E-3*X -1.833E-1	0.9998	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.055E+0*X -2.962E+0	0.9986	ppb
Cr	52	72	Y = 1.675E+0*X -9.574E-1	0.9994	ppb
Cr	53	72	Y = 1.757E-1*X +1.500E+0	0.9999	ppb
Fe	54	72	Y = 1.046E-1*X +2.084E+0	0.9998	ppb
Mn	55	72	Y = 2.169E+0*X -2.124E+0	0.9993	ppb
Fe	57	72	Y = 4.342E-2*X +2.100E+0	0.9997	ppb
Co	59	72	Y = 1.745E+0*X -1.602E+0	0.9994	ppb
Ni	60	72	Y = 3.415E-1*X +1.272E-2	0.9999	ppb
Cu	63	72	Y = 7.895E-1*X +6.890E-1	0.9999	ppb
Cu	65	72	Y = 3.727E-1*X +1.225E-1	0.9999	ppb
Zn	66	72	Y = 2.062E-1*X +2.286E-1	0.9998	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.275E-1*X -1.559E-1	1.0000	ppb
(As)	77	72	Y = 1.041E-2*X +2.772E-1	0.9998	ppb
Se	82	72	Y = 1.426E-2*X +6.657E-1	1.0000	ppb
(As)	83	72	Y = 4.302E-4*X +7.207E+0	0.3530	ppb
(Ca)	88	72	Y = 7.921E-3*X +6.132E-2	0.9999	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 4.956E-1*X -1.293E-1	1.0000	ppb
Mo	98	72	Y = 8.011E-1*X -2.457E-1	1.0000	ppb
(Mo)	99	72	Y = 1.318E-5*X +1.879E-2	0.5009	ppb
(Cd)	106	72	Y = 2.158E-2*X +1.196E-1	0.9999	ppb
(Cd)	108	72	Y = 1.602E-2*X +1.836E-2	0.9999	ppb
Ag	109	72	Y = 1.219E+0*X -1.339E+0	0.9992	ppb
Cd	111	72	Y = 2.380E-1*X +4.564E-2	0.9999	ppb
Cd	114	72	Y = 5.649E-1*X -3.282E-2	0.9999	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.345E-1*X -1.640E-1	0.9992	ppb
Ba	135	115	Y = 2.585E-2*X -6.725E-3	0.9999	ppb
Ba	137	115	Y = 4.479E-2*X -1.134E-2	0.9999	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.510E-1*X -6.305E-2	0.9999	ppb
(Pb)	206	209	Y = 1.051E-1*X -3.564E-2	0.9999	ppb
(Pb)	207	209	Y = 9.189E-2*X -3.604E-2	0.9999	ppb
Pb	208	209	Y = 4.429E-1*X -3.381E-1	0.9998	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 4.842E-1*X -1.569E+0	0.9976	ppb
U	238	209	Y = 4.913E-1*X -2.945E-1	0.9998	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829012
Run Name :
Filename : 12119012
Injected : 21-DEC-2004 20:48
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	100.0000	92.36000	ug/L	-8	10
Antimony	100.0000	92.04000	ug/L	-8	10
Arsenic	100.0000	100.5000	ug/L	1	10
Barium	100.0000	98.63000	ug/L	-1	10
Beryllium	100.0000	100.1000	ug/L	0	10
Cadmium	100.0000	100.6000	ug/L	1	10
Calcium	10000.00	10160.00	ug/L	2	10
Chromium	100.0000	93.12000	ug/L	-7	10
Cobalt	100.0000	92.99000	ug/L	-7	10
Copper	100.0000	100.8000	ug/L	1	10
Iron	10000.00	10320.00	ug/L	3	10
Lead	100.0000	95.08000	ug/L	-5	10
Magnesium	10000.00	10030.00	ug/L	0	10
Manganese	100.0000	95.54000	ug/L	-4	10
Molybdenum	100.0000	99.63000	ug/L	0	10
Nickel	100.0000	100.9000	ug/L	1	10
Potassium	10000.00	10030.00	ug/L	0	10
Selenium	100.0000	101.8000	ug/L	2	10
Silver	100.0000	92.49000	ug/L	-8	10
Sodium	10000.00	10060.00	ug/L	1	10
Thallium	100.0000	99.03000	ug/L	-1	10
Vanadium	100.0000	89.83000	ug/L	-10	10
Zinc	100.0000	101.6000	ug/L	2	10

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	619330	-2.41
Scandium	843570	830140	-1.59
Germanium	145278	149066	2.61
Indium	1318660	1285820	-2.49
Bismuth	1180918	1146701	-2.90
Terbium	1823764	1790577	-1.82

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829028

Run Name :
Filename : 12119028

IDF : 1.0
Injected : 21-DEC-2004 22:21
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2418	150.0000	145.7000	ug/L	-3	10	
Antimony	0.1210	150.0000	136.0000	ug/L	-9	10	
Arsenic	0.2217	150.0000	146.9000	ug/L	-2	10	
Barium	0.0437	150.0000	146.4000	ug/L	-2	10	
Beryllium	0.0760	150.0000	147.5000	ug/L	-2	10	
Cadmium	0.2338	150.0000	147.1000	ug/L	-2	10	
Calcium	0.0084	15000.00	14850.00	ug/L	-1	10	
Chromium	1.7341	150.0000	155.8000	ug/L	4	10	
Cobalt	1.8143	150.0000	156.8000	ug/L	5	10	
Copper	0.3783	150.0000	151.9000	ug/L	1	10	
Iron	0.0443	15000.00	15250.00	ug/L	2	10	
Lead	0.4360	150.0000	148.4000	ug/L	-1	10	
Magnesium	0.0302	15000.00	14920.00	ug/L	-1	10	
Manganese	2.2209	150.0000	154.5000	ug/L	3	10	
Molybdenum	0.4857	150.0000	147.2000	ug/L	-2	10	
Nickel	0.3459	150.0000	151.9000	ug/L	1	10	
Potassium	0.2666	15000.00	14750.00	ug/L	-2	10	
Selenium	0.0190	150.0000	152.8000	ug/L	2	10	
Silver	1.0977	150.0000	136.0000	ug/L	-9	10	
Sodium	0.3113	15000.00	14810.00	ug/L	-1	10	
Thallium	0.3532	150.0000	151.1000	ug/L	1	10	
Vanadium	2.1260	150.0000	156.5000	ug/L	4	10	
Zinc	0.2070	150.0000	149.5000	ug/L	0	10	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	608898	-4.05
Scandium	843570	821314	-2.64
Germanium	145278	147236	1.35
Indium	1318660	1262114	-4.29
Bismuth	1180918	1130000	-4.31
Terbium	1823764	1756501	-3.69

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829045

Run Name :
Filename : 12119045

IDF : 1.0
Injected : 22-DEC-2004 00:01
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2437	150.0000	146.9000	ug/L	-2	10	
Antimony	0.1214	150.0000	136.4000	ug/L	-9	10	
Arsenic	0.2219	150.0000	147.0000	ug/L	-2	10	
Barium	0.0443	150.0000	148.5000	ug/L	-1	10	
Beryllium	0.0762	150.0000	147.9000	ug/L	-1	10	
Cadmium	0.2337	150.0000	147.1000	ug/L	-2	10	
Calcium	0.0085	15000.00	15000.00	ug/L	0	10	
Chromium	1.7504	150.0000	157.3000	ug/L	5	10	
Cobalt	1.8503	150.0000	159.9000	ug/L	7	10	
Copper	0.3784	150.0000	152.0000	ug/L	1	10	
Iron	0.0449	15000.00	15480.00	ug/L	3	10	
Lead	0.4388	150.0000	149.3000	ug/L	0	10	
Magnesium	0.0303	15000.00	15000.00	ug/L	0	10	
Manganese	2.2475	150.0000	156.4000	ug/L	4	10	
Molybdenum	0.4814	150.0000	145.9000	ug/L	-3	10	
Nickel	0.3501	150.0000	153.8000	ug/L	3	10	
Potassium	0.2702	15000.00	14950.00	ug/L	0	10	
Selenium	0.0183	150.0000	146.3000	ug/L	-2	10	
Silver	1.0926	150.0000	135.4000	ug/L	-10	10	
Sodium	0.3166	15000.00	15060.00	ug/L	0	10	
Thallium	0.3492	150.0000	149.3000	ug/L	0	10	
Vanadium	2.1534	150.0000	158.6000	ug/L	6	10	
Zinc	0.2088	150.0000	150.8000	ug/L	1	10	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	594124	-6.38
Scandium	843570	790462	-6.30
Germanium	145278	141120	-2.86
Indium	1318660	1211300	-8.14
Bismuth	1180918	1111184	-5.91
Terbium	1823764	1706558	-6.43

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829060

Run Name :
Filename : 12119060

IDF : 1.0
Injected : 22-DEC-2004 01:28
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2412	100.0000	96.31000	ug/L	-4	10	
Antimony	0.1235	100.0000	92.55000	ug/L	-7	10	
Arsenic	0.2242	100.0000	99.20000	ug/L	-1	10	
Barium	0.0451	100.0000	100.8000	ug/L	1	10	
Beryllium	0.0759	100.0000	98.12000	ug/L	-2	10	
Cadmium	0.2379	100.0000	99.66000	ug/L	0	10	
Calcium	0.0087	10000.00	10150.00	ug/L	2	10	
Chromium	1.5908	100.0000	95.03000	ug/L	-5	10	
Cobalt	1.6661	100.0000	95.98000	ug/L	-4	10	
Copper	0.3874	100.0000	103.6000	ug/L	4	10	
Iron	0.0461	10000.00	10560.00	ug/L	6	10	
Lead	0.4168	100.0000	94.53000	ug/L	-5	10	
Magnesium	0.0313	10000.00	10320.00	ug/L	3	10	
Manganese	2.0544	100.0000	95.23000	ug/L	-5	10	
Molybdenum	0.4856	100.0000	98.11000	ug/L	-2	10	
Nickel	0.3575	100.0000	104.6000	ug/L	5	10	
Potassium	0.2767	10000.00	10150.00	ug/L	2	10	
Selenium	0.0199	100.0000	93.32000	ug/L	-7	10	
Silver	1.1215	100.0000	92.64000	ug/L	-7	10	
Sodium	0.3195	10000.00	10120.00	ug/L	1	10	
Thallium	0.3428	100.0000	97.38000	ug/L	-3	10	
Vanadium	1.8730	100.0000	91.84000	ug/L	-8	10	
Zinc	0.2147	100.0000	103.1000	ug/L	3	10	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	580495	-8.53
Scandium	843570	769347	-8.80
Germanium	145278	137505	-5.35
Indium	1318660	1183209	-10.27
Bismuth	1180918	1098346	-6.99
Terbium	1823764	1656554	-9.17

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829003 Run Name: std-blk Injected: 21-DEC-2004 20:00
Filename: l2119003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829013 Run Name:
Filename: l2119013 Run Type: ICB

Injected: 21-DEC-2004 20:54

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.2289]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	[0.4158]	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	[0.1848]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829031 Run Name:
Filename: l2119031 Run Type: CCB

Injected: 21-DEC-2004 22:38

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829047 Run Name:
Filename: 12119047 Run Type: CCB

Injected: 22-DEC-2004 00:12

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.0856]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	[0.0473]	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.1744]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829062 Run Name:
Filename: l2119062 Run Type: CCB

Injected: 22-DEC-2004 01:40

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829015 Run Name:
Filename: 12119015 Run Type: ICSA

Injected: 21-DEC-2004 21:05

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.452000	0.250000	ug/L	<RL
Arsenic	0.746600	0.500000	ug/L	<RL
Barium	0.901100	0.250000	ug/L	<RL
Beryllium	[0.1353]	0.250000	ug/L	<RL
Cadmium	[0.0782]	0.250000	ug/L	<RL
Chromium	1.706000	0.500000	ug/L	<RL
Cobalt	2.533000	0.250000	ug/L	<RL
Copper	2.050000	0.500000	ug/L	<RL
Lead	1.410000	0.250000	ug/L	<RL
Manganese	1.754000	0.250000	ug/L	<RL
Nickel	2.790000	0.250000	ug/L	<RL
Selenium	5.897000	0.500000	ug/L	<RL
Silver	[0.1782]	0.250000	ug/L	<RL
Thallium	[0.0000]	0.500000	ug/L	<RL
Vanadium	[0.1716]	1.000000	ug/L	<RL
Zinc	4.850000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	95810	ug/L	96
Calcium	300000	305000	ug/L	102
Iron	250000	245600	ug/L	98
Magnesium	100000	99220	ug/L	99
Molybdenum	2000	2167	ug/L	108
Potassium	100000	102000	ug/L	102
Sodium	250000	243300	ug/L	97

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829016

Run Name :
Filename : 12119016

Injected : 21-DEC-2004 21:11
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	89430.00	ug/L	-11		
Arsenic	100.0000	102.3000	ug/L	2	20	
Cadmium	100.0000	92.04000	ug/L	-8	20	
Calcium	300000.0	284300.0	ug/L	-5		
Chromium	200.0000	194.1000	ug/L	-3	20	
Cobalt	200.0000	191.0000	ug/L	-5	20	
Copper	200.0000	184.3000	ug/L	-8	20	
Iron	250000.0	226900.0	ug/L	-9		
Magnesium	100000.0	92040.00	ug/L	-8		
Manganese	200.0000	193.1000	ug/L	-3	20	
Molybdenum	2000.000	1990.000	ug/L	-1		
Nickel	200.0000	188.9000	ug/L	-6	20	
Potassium	100000.0	94700.00	ug/L	-5		
Selenium	100.0000	102.1000	ug/L	2	20	
Silver	50.00000	42.57000	ug/L	-15	20	
Sodium	250000.0	225100.0	ug/L	-10		
Vanadium	200.0000	198.6000	ug/L	-1	20	
Zinc	100.0000	92.11000	ug/L	-8	20	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	538130	-15.20
Scandium	843570	810607	-3.91
Germanium	145278	150233	3.41
Indium	1318660	1179774	-10.53
Bismuth	1180918	974944	-17.44
Terbium	1823764	1689112	-7.38

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829058
Run Name :
Filename : l2119058
Injected : 22-DEC-2004 01:17
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	93450.00	ug/L	-7		
Arsenic	100.0000	101.0000	ug/L	1	20	
Cadmium	100.0000	91.80000	ug/L	-8	20	
Calcium	300000.0	285100.0	ug/L	-5		
Chromium	200.0000	198.3000	ug/L	-1	20	
Cobalt	200.0000	196.5000	ug/L	-2	20	
Copper	200.0000	184.9000	ug/L	-8	20	
Iron	250000.0	232200.0	ug/L	-7		
Magnesium	100000.0	95770.00	ug/L	-4		
Manganese	200.0000	199.2000	ug/L	0	20	
Molybdenum	2000.000	1993.000	ug/L	0		
Nickel	200.0000	190.4000	ug/L	-5	20	
Potassium	100000.0	96370.00	ug/L	-4		
Selenium	100.0000	89.89000	ug/L	-10	20	
Silver	50.00000	42.66000	ug/L	-15	20	
Sodium	250000.0	235600.0	ug/L	-6		
Vanadium	200.0000	204.3000	ug/L	2	20	
Zinc	100.0000	92.83000	ug/L	-7	20	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	523774	-17.47
Scandium	843570	737817	-12.54
Germanium	145278	136000	-6.39
Indium	1318660	1083330	-17.85
Bismuth	1180918	967106	-18.11
Terbium	1823764	1584831	-13.10

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 54513829 Instrument: MET05 Agilent ICP-MS Begun: 21-DEC-2004
nalytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
01	12119001	TUN				21-DEC-2004 19:49	1.0	1.0			1	
03	12119003	IB	std-blk			21-DEC-2004 20:00	1.0	1.0			2	
04	12119004	ICAL	ca1			21-DEC-2004 20:05	1.0				3 2	
05	12119005	ICAL	cs2			21-DEC-2004 20:10	1.0				4 2	
06	12119006	ICAL	cs3			21-DEC-2004 20:15	1.0				5 2	
07	12119007	ICAL	cs4			21-DEC-2004 20:21	1.0				6 2	
08	12119008	ICAL	cs5			21-DEC-2004 20:26	1.0				7 2	
09	12119009	ICAL	cs6			21-DEC-2004 20:31	1.0				8 2	
12	12119012	ICV				21-DEC-2004 20:48	1.0	1.0			9 2	
13	12119013	ICB				21-DEC-2004 20:54	1.0	1.0			2	
15	12119015	ICSA				21-DEC-2004 21:05	1.0	1.0			10 2	7:CA=305000
16	12119016	ICSAB				21-DEC-2004 21:11	1.0	1.0			11 2	7:CA=284300
18	12119018	BLANK	QC276516	97537	Filtra	21-DEC-2004 21:23	1.0	1.0			2	
20	12119020	BS	QC276517	97537	Filtra	21-DEC-2004 21:34	1.0	1.0			2	
21	12119021	BSD	QC276518	97537	Filtra	21-DEC-2004 21:40	1.0	1.0			2	
23	12119023	MSS	176662-001	97537	Filtra	21-DEC-2004 21:52	1.0	1.0	4		2	3:MG=156700
24	12119024	SER	QC276521	97537	Filtra	21-DEC-2004 21:58	5.0	1.0	2	1	2	1:MG=31640.0
25	12119025	MS	QC276519	97537	Filtra	21-DEC-2004 22:04	1.0	1.0	2		2	5:MG=168800
26	12119026	MSD	QC276520	97537	Filtra	21-DEC-2004 22:09	1.0	1.0	2		2	5:MG=161600
28	12119028	CCV				21-DEC-2004 22:21	1.0	1.0			12 2	
31	12119031	CCB				21-DEC-2004 22:38	1.0	1.0			2	
32	12119032	MSS	176662-001	97537	Filtra	21-DEC-2004 22:44	1.0	1.0	3		2	3:MG=158000
33	12119033	X	rinse	97537		21-DEC-2004 22:50	1.0				2	
34	12119034	MSS	176662-001	97537	Filtra	21-DEC-2004 22:56	10.0	1.0			2	
35	12119035	SER	QC276521	97537	Filtra	21-DEC-2004 23:02	50.0	1.0		1	2	
36	12119036	MS	QC276519	97537	Filtra	21-DEC-2004 23:08	20.0	1.0		2	2	
37	12119037	MSD	QC276520	97537	Filtra	21-DEC-2004 23:14	20.0	1.0	1	1	2	
39	12119039	SAMPLE	176662-002	97537	Filtra	21-DEC-2004 23:25	1.0	1.0	4		2	4:MG=189300
40	12119040	SAMPLE	176662-003	97537	Filtra	21-DEC-2004 23:31	1.0	1.0	4		2	4:MG=95560.0
41	12119041	SAMPLE	176662-004	97537	Filtra	21-DEC-2004 23:37	1.0	1.0	3		2	3:MG=135700
42	12119042	SAMPLE	176662-005	97537	Filtra	21-DEC-2004 23:43	1.0	1.0	2		2	2:NA=109000

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2319 13=04WS2318

Analyst: [illegible] Date: 12/21/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54513829 Instrument: MET05 Agilent ICP-MS Begun: 21-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1 -

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
043	12119043	SAMPLE	176662-006	97537	Filtra	21-DEC-2004 23:49	1.0	1.0	3	2	3:NA=95200.0
045	12119045	CCV				22-DEC-2004 00:01	1.0	1.0		12 2	
047	12119047	CCB				22-DEC-2004 00:12	1.0	1.0		2	
049	12119049	MSS	176662-001	97537	Filtra	22-DEC-2004 00:24	1.0	1.0	3	2	3:MG=155300
050	12119050	SAMPLE	176662-007	97537	Filtra	22-DEC-2004 00:30	1.0	1.0	3	2	3:NA=109800
051	12119051	SAMPLE	176662-008	97537	Filtra	22-DEC-2004 00:36	1.0	1.0	3	2	3:NA=179200
052	12119052	SAMPLE	176662-009	97537	Water	22-DEC-2004 00:42	1.0	1.0	4	2	4:NA=54650.0
053	12119053	SAMPLE	176662-009	97537	Filtra	22-DEC-2004 00:47	1.0	1.0	3	2	3:NA=54270.0
054	12119054	SAMPLE	176662-010	97537	Filtra	22-DEC-2004 00:53	1.0	1.0	3	2	3:NA=122300
058	12119058	ICSAB				22-DEC-2004 01:17	1.0	1.0		11 2	8:CA=285100
060	12119060	CCV				22-DEC-2004 01:28	1.0	1.0		13 2	
062	12119062	CCB				22-DEC-2004 01:40	1.0	1.0		2	

272

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2319 13=04WS2318

Analyst: [illegible] Date: 12/21/04

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\083ICSB.D\083ICSB.D#
Date Acquired: Dec 22 2004 07:16 pm
Acq. Method: 60200111.M
Operator:
Sample Name: icsab,04ws2316
Misc Info:
Vial Number: 1205
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Dec 22 2004 00:02 pm
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Elements

Element		Conc.		RSD(%)	Expected	QC Range(%)		Flag
9	Be	0.10	ppb	36.81	---	80 -	120	
23	Na	238100.00	ppb	1.25	---	80 -	120	
26	Mg	96750.00	ppb	0.85	---	80 -	120	
27	Al	92900.00	ppb	1.11	---	80 -	120	
39	K	97660.00	ppb	1.18	---	80 -	120	
44	Ca	290200.00	ppb	0.62	---	80 -	120	
51	V	189.40	ppb	2.24	---	80 -	120	
52	Cr	186.50	ppb	2.07	200.00	80 -	120	
55	Mn	187.20	ppb	2.08	200.00	80 -	120	
57	Fe	216200.00	ppb	2.08	---	80 -	120	
59	Co	179.30	ppb	2.15	200.00	80 -	120	
60	Ni	178.00	ppb	0.60	200.00	80 -	120	
65	Cu	175.50	ppb	0.51	200.00	80 -	120	
66	Zn	88.31	ppb	1.54	100.00	80 -	120	
75	As	97.61	ppb	0.48	100.00	80 -	120	
82	Se	91.90	ppb	4.27	100.00	80 -	120	
95	Mo	1948.00	ppb	2.61	2000.00	80 -	120	
109	Ag	43.61	ppb	1.48	50.00	80 -	120	
111	Cd	90.74	ppb	1.29	100.00	80 -	120	
121	Sb	2.38	ppb	4.39	---	80 -	120	
137	Ba	0.69	ppb	10.17	---	80 -	120	
205	Tl	0.10	ppb	36.87	---	80 -	120	
208	Pb	1.28	ppb	0.69	---	80 -	120	
232	Th	--------	ppb	--------	---	80 -	120	
238	U	--------	ppb	--------	---	80 -	120	

ISTD Elements

Element		CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6	Li	471056.06	1.79	533977.81	88.2	30 -	120	
45	Sc	543310.00	1.43	549173.31	98.9	30 -	120	
72	Ge	110672.45	2.95	107898.45	102.6	30 -	120	

115 In	800142.13	1.25	920762.25	86.9	30 -	120
209 Bi	709884.06	0.82	812644.44	87.4	30 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

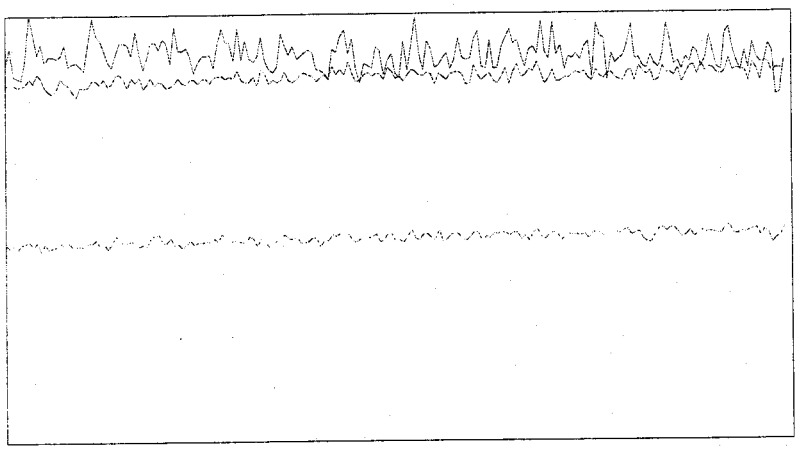
0 :Element Failures 20 :Max. Number of Failures Allowed
0 :ISTD Failures 6 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Pass

Tune Report

Tune File : ATUNE.U



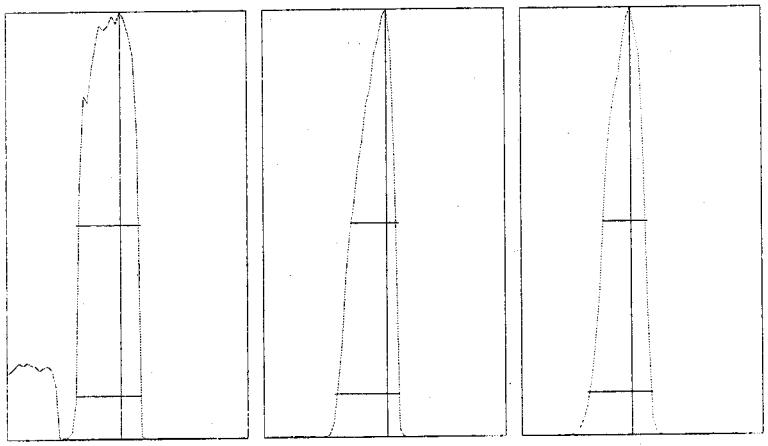
m/z:	7	89	205
Range:	10,000	20,000	50,000
Count:	8,882	17,314	24,876
Mean:	9057.4	17051.5	23847.4
RSD%:	3.78	1.67	2.26
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.84%

Background:

m/z:	7	89	205
Cps:	77.5	38.6	34.8



m/z:	7	89	205
Height:	9,272	17,697	26,916
Axis:	6.95	89.05	204.90
W-50%:	0.80	0.60	0.55
W-10%:	0.800	0.800	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-130 V	AMU Gain:	128
RF Matching:	1.68 V	Extract 2:	-46 V	AMU Offset:	125
Smpl Depth:	8.4 mm	Einzel 1,3:	-126 V	Axis Gain:	1.0002
Torch-H:	1.1 mm	Einzel 2:	16 V	Axis Offset:	-0.06
Torch-V:	0.1 mm	Omega Bias:	-68 V	QP Bias:	0 V
Carrier Gas:	1.03 L/min	Omega (+):	3 V		
Makeup Gas:	0 L/min	Omega (-):	2 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	2 V	Discriminator:	9.2 mV
PeriPump1:	0.1 rps	Plate Bias:	0 V	Analog HV:	1840 V
PeriPump2:	--- rps			Pulse HV:	1400 V
S/C Temp:	2 degC				

Generated : Dec 22, 2004 10:44:13
Printed : Dec 22, 2004 10:44:23

P/A Factor Tuning Report

Acquired:Dec 22 2004 10:53 am

Mass[amu]	Element	P/A Factor
6	Li	0.066342
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.076352
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.078567
45	Sc	0.077623
51	V	0.076851
52	Cr	0.075658
53	Cr	Sensitivity too low
54	Fe	0.075637
55	Mn	0.075676
57	Fe	0.075711
59	Co	0.073989
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.072838
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.068654
118	(In)	0.068834
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.068167
166	Er	Sensitivity too low

205	Tl	0.063693
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.063287
209	Bi	0.063746
232	Th	0.064393
238	U	0.064683

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 22 2004 11:00 am

Mass[amu]	Element	P/A Factor
6	Li	0.066514
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076747
26	Mg	0.076732
27	Al	0.074943
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.076465
45	Sc	0.076700
51	V	0.076851
52	Cr	0.075658
53	Cr	Sensitivity too low
54	Fe	0.074459
55	Mn	0.075676
57	Fe	0.073481
59	Co	0.073989
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.071896
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.067534
118	(In)	0.068834
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.066995
166	Er	Sensitivity too low

205	Tl	0.063693
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.063287
209	Bi	0.062598
232	Th	0.064393
238	U	0.064683

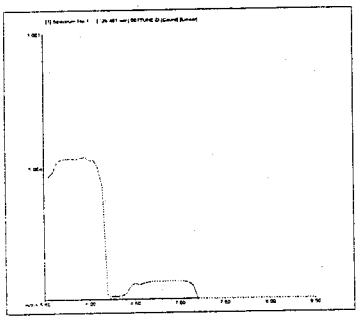
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\04L2211a.B\001TUNE.D
Date Acquired:	Dec 22 2004 11:18 am
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,04ws2314
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	2.52	5.00	
59 Co	1.28	5.00	
115 In	1.70	5.00	
205 Tl	1.87	5.00	



7 Li

Mass Calib.

Actual: 6.90

Required: 6.90 - 7.10

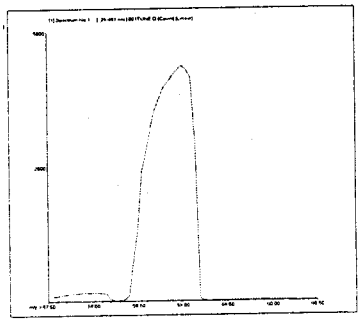
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.00

Required: 58.90 - 59.10

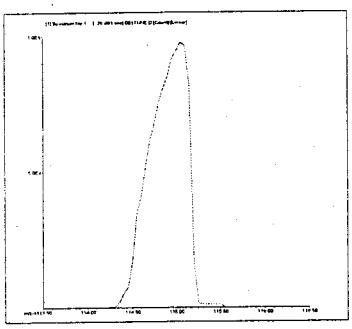
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

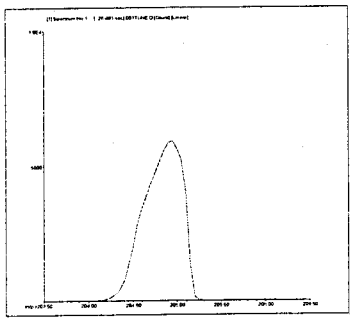
Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 204.95

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2211a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 22 2004 11:23 am
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 21 2004 08:33 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.0003736	ppb	3241.40	-0.000374	1.00	
23 Na	5.843	ppb	18.62	5.843	1.00	
26 Mg	-0.7392	ppb	28.41	-0.7392	1.00	
27 Al	-0.2803	ppb	22.11	-0.2803	1.00	
39 K	29.56	ppb	4.28	29.56	1.00	
44 Ca	10.64	ppb	10.46	10.64	1.00	
51 V	-0.03232	ppb	205.66	-0.03232	1.00	
52 Cr	0.02832	ppb	49.97	0.02832	1.00	
55 Mn	-0.0161	ppb	74.66	-0.0161	1.00	
57 Fe	21.26	ppb	23.90	21.26	1.00	
59 Co	0.01429	ppb	42.66	0.01429	1.00	
60 Ni	0.08209	ppb	7.71	0.08209	1.00	
65 Cu	0.008889	ppb	411.63	0.008889	1.00	
66 Zn	0.302	ppb	46.85	0.302	1.00	
75 As	0.6919	ppb	77.34	0.6919	1.00	
82 Se	-0.2848	ppb	1497.90	-0.2848	1.00	
95 Mo	-0.01449	ppb	67.47	-0.01449	1.00	
109 Ag	-0.01881	ppb	37.70	-0.01881	1.00	
111 Cd	-0.06094	ppb	78.65	-0.06094	1.00	
121 Sb	0.01026	ppb	23.91	0.01026	1.00	
137 Ba	0.02235	ppb	145.86	0.02235	1.00	
205 Tl	-0.5197	ppb	2.51	-0.5197	1.00	
208 Pb	0.02554	ppb	3.82	0.02554	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	536380.13	1.44	---	#VALUE!	30 - 200	
45 Sc	619120.44	0.37	---	#VALUE!	30 - 200	
72 Ge	108096.66	1.15	---	#VALUE!	30 - 200	

115 In	924754.94	1.79	---	#VALUE!	30 - 200
209 Bi	807835.94	1.03	---	#VALUE!	30 - 200

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\003CAL
Date Acquired: Dec 22 2004 11:29 am
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:33 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	533977.81	A	10910.00	2.04
9	Be	80.00	P	32.83	41.04
23	Na	192377.80	P	3739.00	1.94
26	Mg	493.33	P	53.64	10.87
27	Al	4234.44	P	259.00	6.12
39	K	695050.69	A	1073.00	0.15
44	Ca	3127.01	P	105.30	3.37
45	Sc	549173.31	P	8003.00	1.46
51	V	782.75	P	165.70	21.17
52	Cr	2373.33	P	62.45	2.63
55	Mn	542.22	P	50.59	9.33
57	Fe	7562.22	P	403.80	5.34
59	Co	260.00	P	20.28	7.80
60	Ni	188.89	P	22.69	12.01
65	Cu	303.33	P	30.55	10.07
66	Zn	633.34	P	31.80	5.02
72	Ge	107898.40	P	1679.00	1.56
75	As	-175.95	P	67.11	38.14
82	Se	1312.42	P	25.34	1.93
95	Mo	60.00	P	8.82	14.70
109	Ag	87.78	P	1.93	2.19
111	Cd	200.11	P	29.09	14.54
115	In	920762.19	A	9496.00	1.03
121	Sb	137.78	P	26.94	19.55
137	Ba	137.78	P	13.88	10.07
205	Tl	2160.00	P	204.30	9.46
208	Pb	656.67	P	25.17	3.83
209	Bi	812644.38	A	12840.00	1.58
232	Th	731.11	P	44.01	6.02
238	U	40.00	P	14.53	36.33

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\004CALI.D\004CALI.D#
Date Acquired: Dec 22 2004 11:34 am
Operator:
Sample Name: ca1,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:31 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	544793.88	A	9537.00	1.75
9 Be	65.56	P	10.18	15.53
23 Na	190701.09	P	2899.00	1.52
26 Mg	511.11	P	45.99	9.00
27 Al	4250.00	P	135.40	3.19
39 K	694125.88	A	6300.00	0.91
44 Ca	3288.60	P	43.97	1.34
45 Sc	619606.00	A	7455.00	1.20
51 V	846.85	P	111.10	13.12
52 Cr	2521.11	P	77.20	3.06
55 Mn	593.33	P	30.00	5.06
57 Fe	7362.22	P	52.10	0.71
59 Co	230.00	P	16.67	7.25
60 Ni	161.11	P	9.62	5.97
65 Cu	296.66	P	49.33	16.63
66 Zn	758.89	P	76.47	10.08
72 Ge	108194.00	P	2051.00	1.90
75 As	23.85	P	126.50	530.34
82 Se	1381.95	P	57.98	4.20
95 Mo	57.78	P	5.09	8.81
109 Ag	70.00	P	18.56	26.51
111 Cd	208.70	P	9.49	4.55
115 In	916673.50	A	14190.00	1.55
121 Sb	96.67	P	15.28	15.81
137 Ba	128.89	P	22.69	17.60
205 Tl	2286.67	P	233.80	10.22
208 Pb	784.44	P	20.09	2.56
209 Bi	826066.63	A	4944.00	0.60
232 Th	1234.44	P	62.92	5.10
238 U	38.89	P	10.18	26.18

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	544793.94	1.75	533977.81	102.0	30 - 200	
45 Sc	619605.94	1.20	549173.31	112.8	30 - 200	
72 Ge	108194.00	1.90	107898.45	100.3	30 - 200	
115 In	916673.50	1.55	920762.25	99.6	30 - 200	
209 Bi	826066.56	0.60	812644.44	101.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\005CALI.D\005CALI.D#
Date Acquired: Dec 22 2004 11:39 am
Operator:
Sample Name: cs2,04ws2311
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:36 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	532660.00	A	11160.00	2.10
9	Be	767.78	P	58.25	7.59
23	Na	604222.19	A	3307.00	0.55
26	Mg	34528.89	P	74.11	0.21
27	Al	6811.11	P	94.30	1.38
39	K	1013496.00	A	6490.00	0.64
44	Ca	11303.14	P	227.00	2.01
45	Sc	545786.63	P	7144.00	1.31
51	V	4894.21	P	315.10	6.44
52	Cr	5423.33	P	35.28	0.65
55	Mn	4562.22	P	246.40	5.40
57	Fe	15381.11	P	460.90	3.00
59	Co	3574.44	P	85.92	2.40
60	Ni	846.67	P	15.28	1.80
65	Cu	1140.96	P	10.72	0.94
66	Zn	1057.95	P	103.60	9.79
72	Ge	107565.30	P	1037.00	0.96
75	As	588.15	P	355.50	60.44
82	Se	1453.34	P	131.40	9.04
95	Mo	882.22	P	23.41	2.65
109	Ag	2068.89	P	56.40	2.73
111	Cd	612.37	P	30.07	4.91
115	In	914402.31	A	19950.00	2.18
121	Sb	2000.00	P	29.63	1.48
137	Ba	814.44	P	46.71	5.74
205	Tl	6026.67	P	237.60	3.94
208	Pb	6348.89	P	48.23	0.76
209	Bi	814607.69	A	4398.00	0.54
232	Th	3410.00	P	133.80	3.92
238	U	5926.67	P	58.12	0.98

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	532660.00	2.10	533977.81	99.8	30 - 200	
45 Sc	545786.63	1.31	549173.31	99.4	30 - 200	
72 Ge	107565.34	0.96	107898.45	99.7	30 - 200	
115 In	914402.38	2.18	920762.25	99.3	30 - 200	
209 Bi	814607.75	0.54	812644.44	100.2	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\006CALI.D\006CALI.D#
Date Acquired: Dec 22 2004 11:45 am
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:41 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	533056.38	A	5177.00	0.97
9 Be	902.22	P	20.09	2.23
23 Na	716589.31	A	6156.00	0.86
26 Mg	44665.55	P	604.30	1.35
27 Al	7432.22	P	202.20	2.72
39 K	1110964.00	A	3103.00	0.28
44 Ca	13779.83	P	446.20	3.24
45 Sc	567654.81	M	38070.00	6.71
51 V	5602.45	P	238.00	4.25
52 Cr	6432.22	P	51.68	0.80
55 Mn	5740.00	P	329.10	5.73
57 Fe	17955.55	P	260.40	1.45
59 Co	4535.56	P	66.78	1.47
60 Ni	1101.11	P	34.69	3.15
65 Cu	1294.25	P	115.30	8.91
66 Zn	1142.45	P	60.77	5.32
72 Ge	107612.00	P	1053.00	0.98
75 As	331.45	P	158.70	47.88
82 Se	1326.91	P	120.30	9.07
95 Mo	1164.44	P	22.19	1.91
109 Ag	2742.22	P	99.80	3.64
111 Cd	719.26	P	32.88	4.57
115 In	905170.38	A	12800.00	1.41
121 Sb	2588.89	P	75.01	2.90
137 Ba	1088.89	P	106.30	9.76
205 Tl	7205.56	P	294.30	4.08
208 Pb	8106.67	P	52.39	0.65
209 Bi	825525.19	A	7971.00	0.97
232 Th	4332.22	P	211.80	4.89
238 U	7815.56	P	166.90	2.14

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	533056.44	0.97	533977.81	99.8	30 - 200	
45 Sc	567654.81	6.71	549173.31	103.4	30 - 200	
72 Ge	107612.00	0.98	107898.45	99.7	30 - 200	
115 In	905170.38	1.41	920762.25	98.3	30 - 200	
209 Bi	825525.19	0.97	812644.44	101.6	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\007CALI.D\007CALI.D#
Date Acquired: Dec 22 2004 11:50 am
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:47 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	539303.63	A	6340.00	1.18
9	Be	7405.56	P	247.40	3.34
23	Na	4144117.00	A	46820.00	1.13
26	Mg	357268.91	P	3978.00	1.11
27	Al	32118.89	P	397.60	1.24
39	K	3832634.00	A	13500.00	0.35
44	Ca	89036.35	P	636.50	0.71
45	Sc	599768.88	M	39270.00	6.55
51	V	38924.36	P	387.30	1.00
52	Cr	34626.67	P	446.60	1.29
55	Mn	42125.55	P	820.10	1.95
57	Fe	91390.00	P	1639.00	1.79
59	Co	35118.89	P	584.60	1.66
60	Ni	7782.22	P	167.10	2.15
65	Cu	8524.00	P	100.80	1.18
66	Zn	5169.56	P	240.10	4.64
72	Ge	109457.30	P	1907.00	1.74
75	As	4343.75	P	128.20	2.95
82	Se	1687.53	P	118.40	7.02
95	Mo	8585.55	P	15.03	0.18
109	Ag	20801.11	P	405.20	1.95
111	Cd	4710.20	P	276.10	5.86
115	In	905055.31	A	17030.00	1.88
121	Sb	19998.89	P	478.10	2.39
137	Ba	7611.11	P	458.60	6.03
205	Tl	44164.44	P	1334.00	3.02
208	Pb	61130.00	P	793.30	1.30
209	Bi	829315.31	A	8285.00	1.00
232	Th	30757.78	P	1579.00	5.13
238	U	62614.44	P	1043.00	1.67

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	539303.63	1.18	533977.81	101.0	30 - 200	
45 Sc	599768.94	6.55	549173.31	109.2	30 - 200	
72 Ge	109457.34	1.74	107898.45	101.4	30 - 200	
115 In	905055.25	1.88	920762.25	98.3	30 - 200	
209 Bi	829315.25	1.00	812644.44	102.1	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\008CALI.D\008CALI.D#
Date Acquired: Dec 22 2004 11:55 am
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:52 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	533706.63	A	2772.00	0.52
9 Be	89142.22	P	2633.00	2.95
23 Na	46688152.00	A	36810.00	0.08
26 Mg	4482548.00	A	20270.00	0.45
27 Al	343190.00	P	2148.00	0.63
39 K	38089472.00	A	219800.00	0.58
44 Ca	1164097.00	A	9855.00	0.85
45 Sc	600632.63	M	32730.00	5.45
51 V	462720.50	P	7121.00	1.54
52 Cr	393265.50	P	6016.00	1.53
55 Mn	500756.59	P	10960.00	2.19
57 Fe	1115697.00	A	8079.00	0.72
59 Co	423865.50	P	5684.00	1.34
60 Ni	90433.33	P	2418.00	2.67
65 Cu	97159.22	P	887.00	0.91
66 Zn	53530.19	P	817.90	1.53
72 Ge	112241.30	P	1761.00	1.57
75 As	54651.49	P	1521.00	2.78
82 Se	4743.87	P	241.20	5.08
95 Mo	106604.40	P	2967.00	2.78
109 Ag	251012.20	P	8722.00	3.47
111 Cd	53460.32	P	1809.00	3.38
115 In	887967.69	A	7470.00	0.84
121 Sb	245862.20	P	7289.00	2.96
137 Ba	91881.11	P	3475.00	3.78
205 Tl	642299.50	A	5624.00	0.88
208 Pb	746192.19	P	20200.00	2.71
209 Bi	816005.69	A	5160.00	0.63
232 Th	738984.13	A	27320.00	3.70
238 U	921318.00	A	7781.00	0.84

ISTD Elements

C:\ICPCHEM\1\DATA\04L2211a.B\008CALI.D\008CALI.D#

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	533706.63	0.52	533977.81	99.9	30 - 200	
45 Sc	600632.56	5.45	549173.31	109.4	30 - 200	
72 Ge	112241.34	1.57	107898.45	104.0	30 - 200	
115 In	887967.69	0.84	920762.25	96.4	30 - 200	
209 Bi	816005.75	0.63	812644.44	100.4	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\009CALI.D\009CALI.D#
Date Acquired: Dec 22 2004 12:00 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:58 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	528238.63	A	8368.00	1.58
9	Be	180595.59	P	1589.00	0.88
23	Na	93568256.00	A	717700.00	0.77
26	Mg	8950549.00	A	24890.00	0.28
27	Al	732658.69	A	7964.00	1.09
39	K	75102120.00	A	1058000.00	1.41
44	Ca	2290388.00	A	24270.00	1.06
45	Sc	597087.81	M	38200.00	6.40
51	V	1073661.00	A	11910.00	1.11
52	Cr	875184.13	A	11510.00	1.32
55	Mn	1115126.00	A	8250.00	0.74
57	Fe	2186299.00	A	19970.00	0.91
59	Co	945615.38	A	6655.00	0.70
60	Ni	179486.70	P	3474.00	1.94
65	Cu	193017.50	P	3600.00	1.87
66	Zn	106281.40	P	2894.00	2.72
72	Ge	112349.60	P	2389.00	2.13
75	As	109973.30	P	2717.00	2.47
82	Se	8045.04	P	222.00	2.76
95	Mo	215505.59	P	4718.00	2.19
109	Ag	518687.91	A	79620.00	15.35
111	Cd	106853.00	P	3468.00	3.25
115	In	873546.81	A	13500.00	1.55
121	Sb	496941.09	P	12640.00	2.54
137	Ba	183836.70	P	5203.00	2.83
205	Tl	1220020.00	A	14770.00	1.21
208	Pb	1585820.00	A	19540.00	1.23
209	Bi	795678.81	A	4890.00	0.61
232	Th	1826706.00	A	28640.00	1.57
238	U	1824055.00	A	26450.00	1.45

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	528238.63	1.58	533977.81	98.9	30 - 200	
45 Sc	597087.81	6.40	549173.31	108.7	30 - 200	
72 Ge	112349.55	2.13	107898.45	104.1	30 - 200	
115 In	873546.81	1.55	920762.25	94.9	30 - 200	
209 Bi	795678.75	0.61	812644.44	97.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 22, 2004 12:04
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412211a.b\003calb.d\	003calb.d#	Dec 22 2004 11:29 am
2	...hem\1\data\0412211a.b\004cali.d\	004cali.d#	Dec 22 2004 11:34 am
3	...hem\1\data\0412211a.b\005cali.d\	005cali.d#	Dec 22 2004 11:39 am
4	...hem\1\data\0412211a.b\006cali.d\	006cali.d#	Dec 22 2004 11:45 am
5	...hem\1\data\0412211a.b\007cali.d\	007cali.d#	Dec 22 2004 11:50 am
6	...hem\1\data\0412211a.b\008cali.d\	008cali.d#	Dec 22 2004 11:55 am
7	...hem\1\data\0412211a.b\009cali.d\	009cali.d#	Dec 22 2004 12:00 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 8.531E-2*X -4.182E-2	0.9999	ppb
Na	23	45	Y = 3.918E-1*X +5.055E+0	1.0000	ppb
Mg	25	45	Y = 3.292E-2*X -1.345E+0	0.9999	ppb
Mg	26	45	Y = 3.763E-2*X -1.579E+0	0.9999	ppb
Al	27	45	Y = 3.031E-1*X +7.296E-3	0.9993	ppb
K	39	45	Y = 3.123E-1*X +5.431E+1	1.0000	ppb
Ca	43	45	Y = 5.551E-4*X -1.515E-2	0.9999	ppb
Ca	44	45	Y = 9.637E-3*X -1.412E-1	0.9999	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.348E+0*X -4.059E+0	0.9978	ppb
Cr	52	72	Y = 1.919E+0*X -1.762E+0	0.9988	ppb
Cr	53	72	Y = 2.044E-1*X +1.364E+0	1.0000	ppb
Fe	54	72	Y = 1.196E-1*X +9.347E-1	0.9999	ppb
Mn	55	72	Y = 2.448E+0*X -2.719E+0	0.9989	ppb
Fe	57	72	Y = 4.872E-2*X +2.245E+0	0.9999	ppb
Co	59	72	Y = 2.076E+0*X -2.481E+0	0.9988	ppb
Ni	60	72	Y = 3.999E-1*X +1.650E-2	1.0000	ppb
Cu	63	72	Y = 9.247E-1*X +3.118E-1	1.0000	ppb
Cu	65	72	Y = 4.295E-1*X +9.231E-2	1.0000	ppb
Zn	66	72	Y = 2.353E-1*X +2.534E-1	1.0000	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.451E-1*X -1.236E-1	1.0000	ppb
(As)	77	72	Y = 1.156E-2*X +2.357E-1	0.9999	ppb
Se	82	72	Y = 1.479E-2*X +6.262E-1	0.9998	ppb
(As)	83	72	Y = -1.287E-4*X +6.537E+0	-0.0838	ppb
(Ca)	88	72	Y = 7.635E-3*X +7.235E-2	0.9993	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 4.796E-1*X -1.816E-1	0.9999	ppb
Mo	98	72	Y = 7.742E-1*X -2.897E-1	1.0000	ppb
(Mo)	99	72	Y = 2.706E-5*X +1.639E-2	0.6144	ppb
(Cd)	106	72	Y = 2.100E-2*X +1.273E-1	0.9999	ppb
(Cd)	108	72	Y = 1.585E-2*X +2.183E-2	0.9997	ppb
Ag	109	72	Y = 1.153E+0*X -6.190E-1	0.9998	ppb
Cd	111	72	Y = 2.375E-1*X +3.793E-2	1.0000	ppb
Cd	114	72	Y = 5.760E-1*X -3.157E-2	0.9999	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.419E-1*X -8.380E-2	0.9999	ppb
Ba	135	115	Y = 3.040E-2*X -1.145E-2	0.9999	ppb
Ba	137	115	Y = 5.254E-2*X -2.080E-2	0.9999	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.857E-1*X -8.547E-2	0.9998	ppb
(Pb)	206	209	Y = 1.164E-1*X -5.494E-2	0.9999	ppb
(Pb)	207	209	Y = 1.026E-1*X -6.084E-2	0.9999	ppb
Pb	208	209	Y = 4.931E-1*X -5.279E-1	0.9992	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 5.621E-1*X -2.109E+0	0.9948	ppb
U	238	209	Excluded	---	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758012
Run Name :
Filename : 12211012
Injected : 22-DEC-2004 12:17
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	100.0000	101.6000	ug/L	2	10
Antimony	100.0000	100.8000	ug/L	1	10
Arsenic	100.0000	102.0000	ug/L	2	10
Barium	100.0000	100.3000	ug/L	0	10
Beryllium	100.0000	102.4000	ug/L	2	10
Cadmium	100.0000	103.2000	ug/L	3	10
Calcium	10000.00	10570.00	ug/L	6	10
Chromium	100.0000	93.40000	ug/L	-7	10
Cobalt	100.0000	92.18000	ug/L	-8	10
Copper	100.0000	102.7000	ug/L	3	10
Iron	10000.00	10390.00	ug/L	4	10
Lead	100.0000	96.03000	ug/L	-4	10
Magnesium	10000.00	10750.00	ug/L	8	10
Manganese	100.0000	93.76000	ug/L	-6	10
Molybdenum	100.0000	99.39000	ug/L	-1	10
Nickel	100.0000	102.2000	ug/L	2	10
Potassium	10000.00	10600.00	ug/L	6	10
Selenium	100.0000	98.36000	ug/L	-2	10
Silver	100.0000	98.81000	ug/L	-1	10
Sodium	10000.00	10630.00	ug/L	6	10
Thallium	100.0000	99.37000	ug/L	-1	10
Vanadium	100.0000	91.82000	ug/L	-8	10
Zinc	100.0000	104.4000	ug/L	4	10

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	525092	-1.66
Scandium	549173	575189	4.74
Germanium	107898	111778	3.60
Indium	920762	877997	-4.64
Bismuth	812644	811268	-0.17
Terbium	1271294	1255603	-1.23

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758027

Run Name :
Filename : 12211027

IDF : 1.0
Injected : 22-DEC-2004 13:45
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3200	100.0000	105.1000	ug/L	5	10	
Antimony	0.1426	100.0000	100.8000	ug/L	1	10	
Arsenic	0.2480	100.0000	101.6000	ug/L	2	10	
Barium	0.0529	100.0000	101.0000	ug/L	1	10	
Beryllium	0.0839	100.0000	98.58000	ug/L	-1	10	
Cadmium	0.2394	100.0000	100.5000	ug/L	1	10	
Calcium	0.0105	10000.00	10890.00	ug/L	9	10	
Chromium	1.7520	100.0000	91.58000	ug/L	-8	10	
Cobalt	1.8938	100.0000	91.88000	ug/L	-8	10	
Copper	0.4401	100.0000	102.2000	ug/L	2	10	
Iron	0.0502	10000.00	10250.00	ug/L	3	10	
Lead	0.4680	100.0000	95.52000	ug/L	-4	10	
Magnesium	0.0413	10000.00	11010.00	ug/L	10	10	
Manganese	2.2420	100.0000	92.20000	ug/L	-8	10	
Molybdenum	0.4714	100.0000	98.51000	ug/L	-1	10	
Nickel	0.4023	100.0000	100.5000	ug/L	1	10	
Potassium	0.3474	10000.00	10940.00	ug/L	9	10	
Selenium	0.0205	100.0000	96.67000	ug/L	-3	10	
Silver	1.1149	100.0000	97.03000	ug/L	-3	10	
Sodium	0.4283	10000.00	10910.00	ug/L	9	10	
Thallium	0.3771	100.0000	97.78000	ug/L	-2	10	
Vanadium	2.1733	100.0000	93.50000	ug/L	-7	10	
Zinc	0.2460	100.0000	103.4000	ug/L	3	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	521370	-2.36
Scandium	549173	531574	-3.20
Germanium	107898	107172	-0.67
Indium	920762	836222	-9.18
Bismuth	812644	791095	-2.65
Terbium	1271294	1202156	-5.44

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758043

Run Name :
Filename : 12211043

IDF : 1.0
Injected : 22-DEC-2004 15:19
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3202	100.0000	105.2000	ug/L	5	10	
Antimony	0.1443	100.0000	102.0000	ug/L	2	10	
Arsenic	0.2473	100.0000	101.3000	ug/L	1	10	
Barium	0.0535	100.0000	102.0000	ug/L	2	10	
Beryllium	0.0830	100.0000	97.53000	ug/L	-2	10	
Cadmium	0.2483	100.0000	104.3000	ug/L	4	10	
Calcium	0.0104	10000.00	10780.00	ug/L	8	10	
Chromium	1.7650	100.0000	92.27000	ug/L	-8	10	
Cobalt	1.8800	100.0000	91.22000	ug/L	-9	10	
Copper	0.4355	100.0000	101.1000	ug/L	1	10	
Iron	0.0499	10000.00	10190.00	ug/L	2	10	
Lead	0.4818	100.0000	98.34000	ug/L	-2	10	
Magnesium	0.0411	10000.00	10950.00	ug/L	10	10	
Manganese	2.2497	100.0000	92.51000	ug/L	-7	10	
Molybdenum	0.4806	100.0000	100.4000	ug/L	0	10	
Nickel	0.4020	100.0000	100.4000	ug/L	0	10	
Potassium	0.3413	10000.00	10750.00	ug/L	8	10	
Selenium	0.0209	100.0000	99.21000	ug/L	-1	10	
Silver	1.1443	100.0000	99.59000	ug/L	0	10	
Sodium	0.4256	10000.00	10840.00	ug/L	8	10	
Thallium	0.3793	100.0000	98.36000	ug/L	-2	10	
Vanadium	2.2042	100.0000	94.83000	ug/L	-5	10	
Zinc	0.2427	100.0000	102.0000	ug/L	2	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	543775	1.83
Scandium	549173	560058	1.98
Germanium	107898	112287	4.07
Indium	920762	885689	-3.81
Bismuth	812644	840663	3.45
Terbium	1271294	1291287	1.57

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758049

Run Name :
Filename : l2211049

IDF : 1.0
Injected : 22-DEC-2004 15:54
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3249	100.0000	106.7000	ug/L	7	10	
Antimony	0.1458	100.0000	103.1000	ug/L	3	10	
Arsenic	0.2482	100.0000	101.7000	ug/L	2	10	
Barium	0.0540	100.0000	103.0000	ug/L	3	10	
Beryllium	0.0837	100.0000	98.33000	ug/L	-2	10	
Cadmium	0.2446	100.0000	102.7000	ug/L	3	10	
Calcium	0.0105	10000.00	10890.00	ug/L	9	10	
Chromium	1.7533	100.0000	91.65000	ug/L	-8	10	
Cobalt	1.8710	100.0000	90.78000	ug/L	-9	10	
Copper	0.4426	100.0000	102.8000	ug/L	3	10	
Iron	0.0496	10000.00	10120.00	ug/L	1	10	
Lead	0.4770	100.0000	97.36000	ug/L	-3	10	
Magnesium	0.0414	10000.00	11040.00	ug/L	10	10	
Manganese	2.2417	100.0000	92.18000	ug/L	-8	10	
Molybdenum	0.4870	100.0000	101.8000	ug/L	2	10	
Nickel	0.3988	100.0000	99.62000	ug/L	0	10	
Potassium	0.3453	10000.00	10870.00	ug/L	9	10	
Selenium	0.0209	100.0000	99.57000	ug/L	0	10	
Silver	1.1431	100.0000	99.49000	ug/L	-1	10	
Sodium	0.4257	10000.00	10840.00	ug/L	8	10	
Thallium	0.3717	100.0000	96.37000	ug/L	-4	10	
Vanadium	2.1816	100.0000	93.86000	ug/L	-6	10	
Zinc	0.2465	100.0000	103.6000	ug/L	4	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	516312	-3.31
Scandium	549173	536937	-2.23
Germanium	107898	109896	1.85
Indium	920762	850738	-7.61
Bismuth	812644	812231	-0.05
Terbium	1271294	1225138	-3.63

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758063

Run Name :
Filename : 12211063

IDF : 1.0
Injected : 22-DEC-2004 17:16
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3036	100.0000	99.65000	ug/L	0	10	
Antimony	0.1397	100.0000	98.81000	ug/L	-1	10	
Arsenic	0.2440	100.0000	99.98000	ug/L	0	10	
Barium	0.0519	100.0000	99.01000	ug/L	-1	10	
Beryllium	0.0832	100.0000	97.75000	ug/L	-2	10	
Cadmium	0.2431	100.0000	102.1000	ug/L	2	10	
Calcium	0.0103	10000.00	10650.00	ug/L	7	10	
Chromium	1.7432	100.0000	91.12000	ug/L	-9	10	
Cobalt	1.8558	100.0000	90.04000	ug/L	-10	10	
Copper	0.4302	100.0000	99.89000	ug/L	0	10	
Iron	0.0495	10000.00	10100.00	ug/L	1	10	
Lead	0.4610	100.0000	94.08000	ug/L	-6	10	
Magnesium	0.0400	10000.00	10660.00	ug/L	7	10	
Manganese	2.2208	100.0000	91.32000	ug/L	-9	10	
Molybdenum	0.4806	100.0000	100.4000	ug/L	0	10	
Nickel	0.3988	100.0000	99.63000	ug/L	0	10	
Potassium	0.3347	10000.00	10530.00	ug/L	5	10	
Selenium	0.0214	100.0000	102.7000	ug/L	3	10	
Silver	1.1371	100.0000	98.97000	ug/L	-1	10	
Sodium	0.4206	10000.00	10710.00	ug/L	7	10	
Thallium	0.3821	100.0000	99.08000	ug/L	-1	10	
Vanadium	2.0600	100.0000	88.61000	ug/L	**-11**	10	c- **
Zinc	0.2365	100.0000	99.35000	ug/L	-1	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	515187	-3.52
Scandium	549173	546539	-0.48
Germanium	107898	108464	0.52
Indium	920762	869833	-5.53
Bismuth	812644	820358	0.95
Terbium	1271294	1242135	-2.29

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758077
Run Name :
Filename : 12211077
IDF : 1.0
Injected : 22-DEC-2004 18:39
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2804	100.0000	91.94000	ug/L	-8	10	
Antimony	0.1393	100.0000	98.53000	ug/L	-1	10	
Arsenic	0.2439	100.0000	99.93000	ug/L	0	10	
Barium	0.0521	100.0000	99.32000	ug/L	-1	10	
Beryllium	0.0849	100.0000	99.81000	ug/L	0	10	
Cadmium	0.2398	100.0000	100.7000	ug/L	1	10	
Calcium	0.0095	10000.00	9848.000	ug/L	-2	10	
Chromium	1.7397	100.0000	90.93000	ug/L	-9	10	
Cobalt	1.8562	100.0000	90.06000	ug/L	-10	10	
Copper	0.4308	100.0000	100.0000	ug/L	0	10	
Iron	0.0492	10000.00	10030.00	ug/L	0	10	
Lead	0.4607	100.0000	94.02000	ug/L	-6	10	
Magnesium	0.0369	10000.00	9823.000	ug/L	-2	10	
Manganese	2.2179	100.0000	91.20000	ug/L	-9	10	
Molybdenum	0.4772	100.0000	99.72000	ug/L	0	10	
Nickel	0.3962	100.0000	98.96000	ug/L	-1	10	
Potassium	0.3132	10000.00	9841.000	ug/L	-2	10	
Selenium	0.0208	100.0000	98.87000	ug/L	-1	10	
Silver	1.1103	100.0000	96.63000	ug/L	-3	10	
Sodium	0.3933	10000.00	10010.00	ug/L	0	10	
Thallium	0.3838	100.0000	99.53000	ug/L	0	10	
Vanadium	2.0566	100.0000	88.47000	ug/L	**-12**	10	c- **
Zinc	0.2388	100.0000	100.4000	ug/L	0	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	515741	-3.42
Scandium	549173	598397	8.96
Germanium	107898	110314	2.24
Indium	920762	868641	-5.66
Bismuth	812644	815493	0.35
Terbium	1271294	1235379	-2.83

-=low bias c=CCV

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758003 Run Name: std-blk Injected: 22-DEC-2004 11:29
Filename: l2211003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758014 Run Name:
Filename: 12211014 Run Type: ICB

Injected: 22-DEC-2004 12:29

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	1.387000	0.500000	ug/L	<RL ib ***
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

ib=instrument blank

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758029 Run Name:
Filename: 12211029 Run Type: CCB

Injected: 22-DEC-2004 13:57

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	[0.1761]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758045 Run Name:
Filename: l2211045 Run Type: CCB

Injected: 22-DEC-2004 15:30

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	ND	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	ND	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	ND	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	ND	50.00000	ug/L	<RL	
Manganese	ND	0.250000	ug/L	<RL	
Molybdenum	ND	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	2.013000	0.500000	ug/L	<RL	ib ***
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	[0.2107]	0.500000	ug/L	<RL	
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

ib=instrument blank

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758051 Run Name: Injected: 22-DEC-2004 16:05
Filename: l2211051 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	ND	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	ND	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	ND	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	ND	50.00000	ug/L	<RL	
Manganese	ND	0.250000	ug/L	<RL	
Molybdenum	ND	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	2.769000	0.500000	ug/L	<RL	ib ***
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	ND	0.500000	ug/L	<RL	
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

ib=instrument blank

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758065 Run Name:
Filename: l2211065 Run Type: CCB

Injected: 22-DEC-2004 17:28

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758078 Run Name:
Filename: l2211078 Run Type: CCB

Injected: 22-DEC-2004 18:45

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	0.312100	0.250000	ug/L	<RL	ib ***
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	[0.0468]	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	[7.5340]	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	[7.6390]	50.00000	ug/L	<RL	
Manganese	[0.0672]	0.250000	ug/L	<RL	
Molybdenum	0.672700	0.500000	ug/L	<RL	ib ***
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	ND	0.500000	ug/L	<RL	
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	0.785600	0.500000	ug/L	<RL	ib ***
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

ib=instrument blank

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758085

Run Name :
Filename : l2211085

IDF : 1.0
Injected : 22-DEC-2004 19:28
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3067	100.0000	100.7000	ug/L	1	10	
Antimony	0.1385	100.0000	97.94000	ug/L	-2	10	
Arsenic	0.2422	100.0000	99.26000	ug/L	-1	10	
Barium	0.0520	100.0000	99.26000	ug/L	-1	10	
Beryllium	0.0808	100.0000	95.00000	ug/L	-5	10	
Cadmium	0.2425	100.0000	101.8000	ug/L	2	10	
Calcium	0.0102	10000.00	10620.00	ug/L	6	10	
Chromium	1.7428	100.0000	91.10000	ug/L	-9	10	
Cobalt	1.8558	100.0000	90.04000	ug/L	-10	10	
Copper	0.4337	100.0000	100.7000	ug/L	1	10	
Iron	0.0493	10000.00	10070.00	ug/L	1	10	
Lead	0.4601	100.0000	93.89000	ug/L	-6	10	
Magnesium	0.0403	10000.00	10730.00	ug/L	7	10	
Manganese	2.2247	100.0000	91.48000	ug/L	-9	10	
Molybdenum	0.4802	100.0000	100.4000	ug/L	0	10	
Nickel	0.3966	100.0000	99.07000	ug/L	-1	10	
Potassium	0.3394	10000.00	10680.00	ug/L	7	10	
Selenium	0.0210	100.0000	100.1000	ug/L	0	10	
Silver	1.1178	100.0000	97.28000	ug/L	-3	10	
Sodium	0.4195	10000.00	10680.00	ug/L	7	10	
Thallium	0.3770	100.0000	97.76000	ug/L	-2	10	
Vanadium	2.0510	100.0000	88.23000	ug/L	**-12**	10	c- **
Zinc	0.2382	100.0000	100.1000	ug/L	0	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	517183	-3.15
Scandium	549173	539092	-1.84
Germanium	107898	107713	-0.17
Indium	920762	855539	-7.08
Bismuth	812644	797306	-1.89
Terbium	1271294	1201522	-5.49

-=low bias c=CCV

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758088 Run Name:
Filename: l2211088 Run Type: CCB

Injected: 22-DEC-2004 19:46

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758015 Run Name:
Filename: l2211015 Run Type: ICSA

Injected: 22-DEC-2004 12:34

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.263000	0.250000	ug/L	<RL
Arsenic	0.910700	0.500000	ug/L	<RL
Barium	0.682100	0.250000	ug/L	<RL
Beryllium	[0.0805]	0.250000	ug/L	<RL
Cadmium	[0.1726]	0.250000	ug/L	<RL
Chromium	1.534000	0.500000	ug/L	<RL
Cobalt	2.267000	0.250000	ug/L	<RL
Copper	1.777000	0.500000	ug/L	<RL
Lead	1.279000	0.250000	ug/L	<RL
Manganese	1.691000	0.250000	ug/L	<RL
Nickel	2.536000	0.250000	ug/L	<RL
Selenium	[0.2895]	0.500000	ug/L	<RL
Silver	[0.1822]	0.250000	ug/L	<RL
Thallium	[0.3474]	0.500000	ug/L	<RL
Vanadium	[0.1852]	1.000000	ug/L	<RL
Zinc	3.291000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	89960	ug/L	90
Calcium	300000	283900	ug/L	95
Iron	250000	218500	ug/L	87
Magnesium	100000	93860	ug/L	94
Molybdenum	2000	1980	ug/L	99
Potassium	100000	94600	ug/L	95
Sodium	250000	227900	ug/L	91

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758016
Run Name :
Filename : 12211016
Injected : 22-DEC-2004 12:40
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	92500.00	ug/L	-8		
Arsenic	100.0000	101.8000	ug/L	2	20	
Cadmium	100.0000	92.13000	ug/L	-8	20	
Calcium	300000.0	290400.0	ug/L	-3		
Chromium	200.0000	188.3000	ug/L	-6	20	
Cobalt	200.0000	184.8000	ug/L	-8	20	
Copper	200.0000	182.1000	ug/L	-9	20	
Iron	250000.0	221700.0	ug/L	-11		
Magnesium	100000.0	95480.00	ug/L	-5		
Manganese	200.0000	191.4000	ug/L	-4	20	
Molybdenum	2000.000	1971.000	ug/L	-1		
Nickel	200.0000	184.6000	ug/L	-8	20	
Potassium	100000.0	97710.00	ug/L	-2		
Selenium	100.0000	97.75000	ug/L	-2	20	
Silver	50.00000	44.97000	ug/L	-10	20	
Sodium	250000.0	234800.0	ug/L	-6		
Vanadium	200.0000	192.1000	ug/L	-4	20	
Zinc	100.0000	92.34000	ug/L	-8	20	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	470800	-11.83
Scandium	549173	564142	2.73
Germanium	107898	113900	5.56
Indium	920762	800099	-13.10
Bismuth	812644	705046	-13.24
Terbium	1271294	1185121	-6.78

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758047

Run Name :
Filename : 12211047

Injected : 22-DEC-2004 15:42
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	94900.00	ug/L	-5		
Arsenic	100.0000	102.0000	ug/L	2	20	
Cadmium	100.0000	95.51000	ug/L	-4	20	
Calcium	300000.0	296800.0	ug/L	-1		
Chromium	200.0000	188.9000	ug/L	-6	20	
Cobalt	200.0000	182.0000	ug/L	-9	20	
Copper	200.0000	180.3000	ug/L	-10	20	
Iron	250000.0	219900.0	ug/L	-12		
Magnesium	100000.0	98520.00	ug/L	-1		
Manganese	200.0000	190.3000	ug/L	-5	20	
Molybdenum	2000.000	2021.000	ug/L	1		
Nickel	200.0000	183.9000	ug/L	-8	20	
Potassium	100000.0	99020.00	ug/L	-1		
Selenium	100.0000	93.00000	ug/L	-7	20	
Silver	50.00000	46.40000	ug/L	-7	20	
Sodium	250000.0	240200.0	ug/L	-4		
Vanadium	200.0000	191.3000	ug/L	-4	20	
Zinc	100.0000	90.09000	ug/L	-10	20	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	476920	-10.69
Scandium	549173	552676	0.64
Germanium	107898	113617	5.30
Indium	920762	823900	-10.52
Bismuth	812644	734551	-9.61
Terbium	1271294	1203386	-5.34

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758083

Run Name :
Filename : 12211083

Injected : 22-DEC-2004 19:16
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	92900.00	ug/L	-7		
Arsenic	100.0000	97.61000	ug/L	-2	20	
Cadmium	100.0000	90.74000	ug/L	-9	20	
Calcium	300000.0	290200.0	ug/L	-3		
Chromium	200.0000	186.5000	ug/L	-7	20	
Cobalt	200.0000	179.3000	ug/L	-10	20	
Copper	200.0000	175.5000	ug/L	-12	20	
Iron	250000.0	216200.0	ug/L	-14		
Magnesium	100000.0	96750.00	ug/L	-3		
Manganese	200.0000	187.2000	ug/L	-6	20	
Molybdenum	2000.000	1948.000	ug/L	-3		
Nickel	200.0000	178.0000	ug/L	-11	20	
Potassium	100000.0	97660.00	ug/L	-2		
Selenium	100.0000	91.90000	ug/L	-8	20	
Silver	50.00000	43.61000	ug/L	-13	20	
Sodium	250000.0	238100.0	ug/L	-5		
Vanadium	200.0000	189.4000	ug/L	-5	20	
Zinc	100.0000	88.31000	ug/L	-12	20	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	471056	-11.78
Scandium	549173	543310	-1.07
Germanium	107898	110672	2.57
Indium	920762	800142	-13.10
Bismuth	812644	709884	-12.65
Terbium	1271294	1160748	-8.70

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54514758 Instrument: MET05 Agilent ICP-MS Begun: 22-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	l2211001	TUN				22-DEC-2004 11:18	1.0	1.0			1	
003	l2211003	IB	std-blk			22-DEC-2004 11:29	1.0	1.0			2	
004	l2211004	ICAL	ca1			22-DEC-2004 11:34	1.0				3 2	
005	l2211005	ICAL	cs2			22-DEC-2004 11:39	1.0				4 2	
006	l2211006	ICAL	cs3			22-DEC-2004 11:45	1.0				5 2	
007	l2211007	ICAL	cs4			22-DEC-2004 11:50	1.0				6 2	
008	l2211008	ICAL	cs5			22-DEC-2004 11:55	1.0				7 2	
009	l2211009	ICAL	cs6			22-DEC-2004 12:00	1.0				8 2	
012	l2211012	ICV				22-DEC-2004 12:17	1.0	1.0			9 2	
014	l2211014	ICB				22-DEC-2004 12:29	1.0	1.0	1		2	
015	l2211015	ICSA				22-DEC-2004 12:34	1.0	1.0			10 2	7:CA=283900
016	l2211016	ICSAB				22-DEC-2004 12:40	1.0	1.0			11 2	7:CA=290400
018	l2211018	SAMPLE	176554-001	97577	Soil	22-DEC-2004 12:52	10.0	34.25	2		2	4:FE=62370.0
019	l2211019	SAMPLE	176554-002	97577	Soil	22-DEC-2004 12:58	10.0	44.25	2		2	5:CA=232900
020	l2211020	SAMPLE	176554-001	97577	Soil	22-DEC-2004 13:04	100.0	34.25	2		2	1:AL=3636.00
021	l2211021	SAMPLE	176554-002	97577	Soil	22-DEC-2004 13:10	100.0	44.25	1		2	2:CA=28060.0
022	l2211022	BLANK	QC275956	97398	Water	22-DEC-2004 13:16	1.0	1.0	1		2	
023	l2211023	BS	QC275957	97398	Water	22-DEC-2004 13:21	5.0	1.0	3	1	2	2:AL=483.400
024	l2211024	BSD	QC275958	97398	Water	22-DEC-2004 13:27	5.0	1.0	3	2	2 spk	2:AL=473.200
027	l2211027	CCV				22-DEC-2004 13:45	1.0	1.0			12 2	
029	l2211029	CCB				22-DEC-2004 13:57	1.0	1.0			2	
030	l2211030	MSS	176567-004	97398	Water	22-DEC-2004 14:03	5.0	1.0	4		2	2:NA=68760.0
031	l2211031	SER	QC275961	97398	Water	22-DEC-2004 14:08	25.0	1.0			2	
033	l2211033	MS	QC275959	97398	Water	22-DEC-2004 14:20	5.0	1.0	2		2	4:NA=64620.0
034	l2211034	MSD	QC275960	97398	Water	22-DEC-2004 14:26	5.0	1.0	2		2	4:NA=68080.0
035	l2211035	BS	QC275957	97398	Water	22-DEC-2004 14:32	2.0	1.0	9		2	8:AL=1204.50
036	l2211036	BSD	QC275958	97398	Water	22-DEC-2004 14:38	2.0	1.0	9		2	8:AL=1175.00
038	l2211038	MSS	176567-004	97398	Filtra	22-DEC-2004 14:49	1.0	1.0	4		2	4:NA=321100
039	l2211039	SAMPLE	176567-005	97398	Filtra	22-DEC-2004 14:55	1.0	1.0	1		2	5:NA=177000
040	l2211040	SAMPLE	176567-006	97398	Filtra	22-DEC-2004 15:01	1.0	1.0			2	3:NA=231900

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226

Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 12/22/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54514758 Instrument: MET05 Agilent ICP-MS Begun: 22-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
041	l2211041	SAMPLE	176567-014	97398	Filtra	22-DEC-2004 15:07	1.0	1.0	2		2	4:NA=313900
043	l2211043	CCV				22-DEC-2004 15:19	1.0	1.0			12 2	
045	l2211045	CCB				22-DEC-2004 15:30	1.0	1.0	1		2	
046	l2211046	PDS	QC277415	97398	Filtra	22-DEC-2004 15:36	1.0	1.0	1		13 2	4:NA=322700
047	l2211047	ICSAB				22-DEC-2004 15:42	1.0	1.0			11 2	7:CA=296800
049	l2211049	CCV				22-DEC-2004 15:54	1.0	1.0			12 2	
051	l2211051	CCB				22-DEC-2004 16:05	1.0	1.0	1		2	
052	l2211052	SAMPLE	176662-002	97537	Filtra	22-DEC-2004 16:11	5.0	1.0	2		2	1:MG=40560.0
053	l2211053	SAMPLE	176662-003	97537	Filtra	22-DEC-2004 16:17	5.0	1.0	2		2	1:MG=21640.0
054	l2211054	SAMPLE	176662-004	97537	Filtra	22-DEC-2004 16:23	5.0	1.0	2		2	1:MG=30700.0
055	l2211055	SAMPLE	176662-005	97537	Filtra	22-DEC-2004 16:29	5.0	1.0	2		2	1:NA=21960.0
056	l2211056	SAMPLE	176662-006	97537	Filtra	22-DEC-2004 16:35	5.0	1.0	2		2	1:NA=20240.0
057	l2211057	SAMPLE	176662-007	97537	Filtra	22-DEC-2004 16:41	5.0	1.0	2		2	1:NA=22680.0
058	l2211058	SAMPLE	176662-008	97537	Filtra	22-DEC-2004 16:47	5.0	1.0	3		2	2:NA=40440.0
059	l2211059	SAMPLE	176662-009	97537	Water	22-DEC-2004 16:53	5.0	1.0	1		2	
060	l2211060	SAMPLE	176662-009	97537	Filtra	22-DEC-2004 16:58	5.0	1.0	1		2	
061	l2211061	SAMPLE	176662-010	97537	Filtra	22-DEC-2004 17:04	5.0	1.0	3		2	2:NA=26320.0
063	l2211063	CCV				22-DEC-2004 17:16	1.0	1.0	1		12 2	
065	l2211065	CCB				22-DEC-2004 17:28	1.0	1.0			2	
066	l2211066	SER	QC276521	97537	Filtra	22-DEC-2004 17:34	5.0	1.0	2		2	2:MG=34300.0
067	l2211067	PDS	QC277377	97537	Filtra	22-DEC-2004 17:40	1.0	1.0	4	1	13 2	5:MG=175900
068	l2211068	SAMPLE	176662-002	97537	Filtra	22-DEC-2004 17:45	10.0	1.0	1		2	
069	l2211069	SAMPLE	176662-003	97537	Filtra	22-DEC-2004 17:51	10.0	1.0	1		2	
070	l2211070	SAMPLE	176662-004	97537	Filtra	22-DEC-2004 17:57	10.0	1.0	1		2	
071	l2211071	SAMPLE	176662-005	97537	Filtra	22-DEC-2004 18:03	10.0	1.0	1		2	
072	l2211072	SAMPLE	176662-006	97537	Filtra	22-DEC-2004 18:10	10.0	1.0	1		2	
073	l2211073	SAMPLE	176662-007	97537	Filtra	22-DEC-2004 18:16	10.0	1.0	1		2	
074	l2211074	SAMPLE	176662-008	97537	Filtra	22-DEC-2004 18:22	10.0	1.0	1		2	
075	l2211075	SAMPLE	176662-010	97537	Filtra	22-DEC-2004 18:28	10.0	1.0	1		2	
077	l2211077	CCV				22-DEC-2004 18:39	1.0	1.0	1		12 2	

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226

Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 12/22/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54514758 Instrument: MET05 Agilent ICP-MS Begun: 22-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
078	l2211078	CCB				22-DEC-2004 18:45	1.0	1.0	3	2	
083	l2211083	ICSAB				22-DEC-2004 19:16	1.0	1.0		11 2	7:CA=290200
085	l2211085	CCV				22-DEC-2004 19:28	1.0	1.0	1	12 2	
088	l2211088	CCB				22-DEC-2004 19:46	1.0	1.0		2	

320

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226

Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 12/22/04

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-DEC-2004
Sequence: 54513829 (l2119)
Instrument ID: MET05

IB Filename: l2119003
Date Analyzed: 21-DEC-2004
Time Analyzed: 20:00

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
IB STD	634616	843570	145278	1318660	1180918	1823764
LOWER LIMIT	190385	253071	43583	395598	354275	547129
UPPER LIMIT	761540	1012284	174333	1582392	1417102	2188517

TYPE	SAMPLE	#						
IB	std-blk	003	634616	843570	145278	1318660	1180918	1823764
ICB		013	631128	820782	144259	1297842	1161079	1787639
ICSA		015	551886	806173	146946	1186014	996101	1709565
BLANK	QC276516	018	596842	808442	140968	1284004	1147808	1748049
BS	QC276517	020	572625	771083	137954	1187623	1074287	1664429
BSD	QC276518	021	569447	767630	138503	1184688	1066797	1662875
MSS	176662-001	023	576710	784030	138340	1142562	1020297	1645998
SER	QC276521	024	626628	846429	148756	1279084	1118795	1772446
MS	QC276519	025	570594	780317	141585	1129065	991072	1631388
MSD	QC276520	026	579104	793517	143815	1148156	1005607	1660957
CCV		028	608898	821314	147236	1262114	1130000	1756501
CCB		031	631145	825335	142197	1305611	1173554	1790663
MSS	176662-001	032	581614	782847	137926	1146505	1013939	1640403
MSS	176662-001	034	625922	840327	146122	1277206	1132373	1773501
SER	QC276521	035	647528	835923	146041	1299805	1166664	1780252
MS	QC276519	036	642112	822215	143809	1265903	1146604	1767753
MSD	QC276520	037	624380	815585	143301	1257490	1133831	1732156
SAMPLE	176662-002	039	568971	770055	135220	1116544	995518	1606342
SAMPLE	176662-003	040	576714	798143	139385	1176487	1056694	1691497
SAMPLE	176662-004	041	574428	791535	139302	1171464	1048716	1686913
SAMPLE	176662-005	042	615783	838242	146317	1221627	1019451	1703377
SAMPLE	176662-006	043	584079	804304	141023	1182817	1046036	1691489
CCV		045	594124	790462	141120	1211300	1111184	1706558
CCB		047	613540	789695	136505	1250741	1143561	1722846
MSS	176662-001	049	580370	783214	136874	1140679	1019782	1648197
SAMPLE	176662-007	050	589054	798037	138889	1170913	1042070	1688510
SAMPLE	176662-008	051	570394	803818	140247	1183350	1058924	1690426
SAMPLE	176662-009	052	563308	756912	134836	1136145	1048693	1613242

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-DEC-2004
Sequence: 54513829 (l2119)
Instrument ID: MET05

IB Filename: l2119003
Date Analyzed: 21-DEC-2004
Time Analyzed: 20:00

TYPE	SAMPLE	#						
SAMPLE	176662-009	053	577948	766923	135286	1152609	1061231	1643068
SAMPLE	176662-010	054	570339	766586	136189	1138063	1024438	1632222
CCV		060	580495	769347	137505	1183209	1098346	1656554
CCB		062	587056	753217	130842	1196724	1120373	1650004

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-DEC-2004
Sequence: 54514758 (l2211)
Instrument ID: MET05

IB Filename: l2211003
Date Analyzed: 22-DEC-2004
Time Analyzed: 11:29

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
IB STD	533978	549173	107898	920762	812644	1271294
LOWER LIMIT	160193	164752	32370	276229	243793	381388
UPPER LIMIT	640773	659008	129478	1104915	975173	1525553

TYPE	SAMPLE	#						
IB	std-blk	003	533978	549173	107898	920762	812644	1271294
ICB		014	540778	578997	107172	904541	835422	1256672
ICSA		015	471879	574253	113770	835442	721148	1206147
SAMPLE	176554-001	018	551107	662296*	110464	831997	786727	1212056
SAMPLE	176554-002	019	529727	616807	107484	834196	765913	1204420
SAMPLE	176554-001	020	537237	595214	110572	881671	830025	1250773
SAMPLE	176554-002	021	530613	547558	109332	887762	836521	1253399
BLANK	QC275956	022	528313	548323	107273	881235	815243	1232076
BS	QC275957	023	527906	508668	101955	821794	776457	1176206
BSD	QC275958	024	525580	532316	102840	822035	781193	1186931
CCV		027	521370	531574	107172	836222	791095	1202156
CCB		029	544205	561607	104886	870748	821721	1238767
MSS	176567-004	030	517505	509453	102363	812283	763056	1182720
SER	QC275961	031	535938	543704	105896	870155	814170	1229379
MS	QC275959	033	514886	567216	105840	842060	784696	1221761
MSD	QC275960	034	513760	548630	106431	851075	801687	1233851
BS	QC275957	035	533236	515307	102409	817727	776372	1197220
BSD	QC275958	036	526959	525781	101731	813606	765909	1171887
MSS	176567-004	038	491225	486247	106946	750851	689195	1110267
SAMPLE	176567-005	039	504166	495157	107015	749922	700456	1124861
SAMPLE	176567-006	040	499933	502183	108082	757643	694972	1127011
SAMPLE	176567-014	041	484942	500863	107777	758853	693746	1131422
CCV		043	543775	560058	112287	885689	840663	1291287
CCB		045	551253	609307	108891	924108	865151	1290404
PDS	QC277415	046	475770	490662	103438	725098	673484	1093611
CCV		049	516312	536937	109896	850738	812231	1225138

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-DEC-2004
Sequence: 54514758 (l2211)
Instrument ID: MET05

IB Filename: l2211003
Date Analyzed: 22-DEC-2004
Time Analyzed: 11:29

TYPE	SAMPLE	#						
CCB		051	531506	590745	105546	893155	844486	1263391
SAMPLE	176662-002	052	526239	543915	104859	837031	801461	1233601
SAMPLE	176662-003	053	519882	545381	106177	847619	815536	1242117
SAMPLE	176662-004	054	517927	521817	105529	842956	801508	1227695
SAMPLE	176662-005	055	531618	601720	107422	870957	814060	1255235
SAMPLE	176662-006	056	522857	572456	106800	854769	812695	1244528
SAMPLE	176662-007	057	522908	596959	107295	865488	814941	1247294
SAMPLE	176662-008	058	518512	553768	107565	856605	790219	1227889
SAMPLE	176662-009	059	517958	569552	106280	858735	807994	1221981
SAMPLE	176662-009	060	523309	579369	107362	867730	820243	1237570
SAMPLE	176662-010	061	518767	558962	106999	863189	810936	1247492
CCV		063	515187	546539	108464	869833	820358	1242135
CCB		065	532334	601142	107037	903930	845801	1270630
SER	QC276521	066	526144	551962	105371	841509	798996	1235013
PDS	QC277377	067	492304	522731	103789	771334	711784	1152815
SAMPLE	176662-002	068	533293	572867	111531	897727	834068	1279984
SAMPLE	176662-003	069	541725	593318	110137	889999	837988	1279027
SAMPLE	176662-004	070	534868	587203	108565	881812	837128	1270811
SAMPLE	176662-005	071	542147	592914	108810	895173	830042	1272374
SAMPLE	176662-006	072	531404	559854	107736	890477	825274	1252865
SAMPLE	176662-007	073	539706	594172	108908	892996	828931	1264136
SAMPLE	176662-008	074	530731	586716	109245	896251	835985	1262830
SAMPLE	176662-010	075	538382	587534	108151	887336	826733	1263107
CCV		077	515741	598397	110314	868641	815493	1235379
CCB		078	545890	562703	108285	906681	843584	1274882
CCV		085	517183	539092	107713	855539	797306	1201522
CCB		088	536435	570058	104245	879595	828351	1231942

* = Outside QC Limits

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
176662-009	MET05	12/22/04 00:42	1.0	+	+	+	+	+	+		+	+	+	+	+				+	+	+	+		+	+	+
176662-009	MET04	12/22/04 16:03	1.0															+								
176662-009	MET05	12/22/04 16:53	5.0							+						+	+						+			
QC276516	MET05	12/21/04 21:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC276517	MET05	12/21/04 21:34	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC276518	MET05	12/21/04 21:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC276519	MET05	12/21/04 22:04	1.0	+	+	+	+	+	+		+	+	+	+	+					+	+	+		+	+	+
QC276519	MET05	12/21/04 23:08	20.0							+						+	+		+				+			
QC276520	MET05	12/21/04 22:09	1.0	+	+	+	+	+	+		+	+	+	+	+					+	+	+		+	+	+
QC276520	MET05	12/21/04 23:14	20.0							+						+	+		+				+			
QC276521	MET05	12/21/04 21:58	5.0	+	+	+	+	+	+		+	+	+	+	+				+	+	+	+		+	+	+
QC276521	MET05	12/21/04 23:02	50.0							+						+							+			
QC276521	MET05	12/22/04 17:34	5.0														+									
QC277377	MET05	12/22/04 17:40	1.0	+	+	+	+	+	+		+	+	+	+	+					+		+		+		+
QC277377	MET05	12/22/04 20:24	10.0							+							+		+							
QC277279	MET04	12/22/04 15:27	1.0															+								
QC277280	MET04	12/22/04 15:29	1.0															+								
QC277281	MET04	12/22/04 15:31	1.0															+								
QC277282	MET04	12/22/04 15:36	1.0															+								
QC277283	MET04	12/22/04 15:39	1.0															+								

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
176662-001	MET05	12/21/04 21:52	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+		+		+	+	+
176662-001	MET05	12/21/04 22:44	1.0																		+					
176662-001	MET05	12/21/04 22:56	10.0							+						+							+			
176662-001	MET05	12/22/04 00:24	1.0																							
176662-001	MET04	12/22/04 15:34	1.0															+								
176662-002	MET05	12/21/04 23:25	1.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-002	MET04	12/22/04 15:41	1.0															+								
176662-002	MET05	12/22/04 16:11	5.0				+			+													+			
176662-002	MET05	12/22/04 17:45	10.0													+										
176662-003	MET05	12/21/04 23:31	1.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-003	MET04	12/22/04 15:43	1.0															+								
176662-003	MET05	12/22/04 16:17	5.0				+			+													+			
176662-003	MET05	12/22/04 17:51	10.0													+										
176662-004	MET05	12/21/04 23:37	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-004	MET04	12/22/04 15:45	1.0															+								
176662-004	MET05	12/22/04 16:23	5.0							+													+			
176662-004	MET05	12/22/04 17:57	10.0													+										
176662-005	MET05	12/21/04 23:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
176662-005	MET04	12/22/04 15:47	1.0															+								
176662-005	MET05	12/22/04 16:29	5.0													+										
176662-005	MET05	12/22/04 18:03	10.0																				+			
176662-006	MET05	12/21/04 23:49	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-006	MET04	12/22/04 15:54	1.0															+								
176662-006	MET05	12/22/04 16:35	5.0							+						+										
176662-006	MET05	12/22/04 18:10	10.0																				+			
176662-007	MET05	12/22/04 00:30	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-007	MET04	12/22/04 15:56	1.0															+								
176662-007	MET05	12/22/04 16:41	5.0							+						+										
176662-007	MET05	12/22/04 18:16	10.0																				+			
176662-008	MET05	12/22/04 00:36	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-008	MET04	12/22/04 15:58	1.0															+								
176662-008	MET05	12/22/04 16:47	5.0							+																
176662-008	MET05	12/22/04 18:22	10.0													+							+			
176662-009	MET05	12/22/04 00:47	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-009	MET04	12/22/04 16:00	1.0															+								
176662-009	MET05	12/22/04 16:58	5.0							+						+							+			
176662-010	MET05	12/22/04 00:53	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-010	MET05	12/22/04 17:04	5.0							+																
176662-010	MET05	12/22/04 18:28	10.0													+							+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN
QC276516	MET05	12/21/04 21:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC276517	MET05	12/21/04 21:34	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC276518	MET05	12/21/04 21:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+
QC276519	MET05	12/21/04 22:04	1.0	+	+	+	+	+	+		+	+	+	+	+					+	+	+		+	+	+
QC276519	MET05	12/21/04 23:08	20.0							+						+	+		+				+			
QC276520	MET05	12/21/04 22:09	1.0	+	+	+	+	+	+		+	+	+	+	+					+	+	+		+	+	+
QC276520	MET05	12/21/04 23:14	20.0							+						+	+		+				+			
QC276521	MET05	12/21/04 21:58	5.0	+	+	+	+	+	+		+	+	+	+	+				+	+	+	+		+	+	+
QC276521	MET05	12/21/04 23:02	50.0							+						+							+			
QC276521	MET05	12/22/04 17:34	5.0														+									
QC277377	MET05	12/22/04 17:40	1.0	+	+	+	+	+	+		+	+	+	+	+					+		+		+		+
QC277377	MET05	12/22/04 20:24	10.0							+							+		+							
QC277279	MET04	12/22/04 15:27	1.0															+								
QC277280	MET04	12/22/04 15:29	1.0															+								
QC277281	MET04	12/22/04 15:31	1.0															+								
QC277282	MET04	12/22/04 15:36	1.0															+								
QC277283	MET04	12/22/04 15:39	1.0															+								

Curtis & Tompkins Laboratories Sample Preparation Summary 22-DEC-2004 12:01

Batch Number : 97537
Date Extracted: 16-DEC-2004
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 04SS226
Spike #2 ID :
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176662-001		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-002		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-003		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-004		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-005		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-006		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-007		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-008		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-009		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-009		Treadwell & Rollo	Water	50	ml	50	1.000000	1					TAL/ICP		
176662-010		Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176664-001		LFR Levine Fricke	Water	50	ml	50	1.000000	1					ICAP		
QC276516	BLANK		Filtrate	50	ml	50	1.000000	1					ICAP		
QC276517	BS		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276518	BSD		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276519	MS	of 176662-001	Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276520	MSD	of 176662-001	Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276521	SER	of 176662-001	Filtrate	50	ml	50	1.000000	1					ICAP		
QC276577	PDS	of 176662-001	Filtrate	50	ml	50	1.000000	1					ICAP		

Prep Chemist: KC for K Gaines Reviewed By: K Carlyn Date: 12/22/04

Relinquished By: KC for K Gaines Received By: K Carlyn Date: 12/22/04

td.

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 97537
Date Digested: 12/15/04
Digested by: KLA

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2036
Page 27

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS-01 D				FIELD FILTERED
MSD-01				
176662-01				
-02				
-03				
-04				
-05				
-06				
-07				
-08				
-09				
-10				
1662-09 E				TOTAL
1664-01 D				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95°C	KLA 12/16
.5 mL of spike solution was added to all spikes	0455224	
concentrated HCl	A27045 BAKER	
concentrated HNO3	A33046 BAKER	
☐ filtered thru' Whatman # 541	N/A	

Extraction Chemist / Date: 12/16/04

Continued from page ___
Continued on page 1

Reviewed by / Date: 12/16/04

Folder: 122204b
Protocol: hgppb
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 15:09:26 22 Dec 04 HG

Hg .000 ppb 2409

*** Standard: 2 Rep: 1 Seq: 2 15:11:23 22 Dec 04 HG

Hg .200 ppb 10120

*** Standard: 3 Rep: 1 Seq: 3 15:13:46 22 Dec 04 HG

Hg .500 ppb 27916

*** Standard: 4 Rep: 1 Seq: 4 15:15:46 22 Dec 04 HG

Hg 2.00 ppb 82065

*** Standard: 5 Rep: 1 Seq: 5 15:18:11 22 Dec 04 HG

Hg 5.00 ppb 215401

*** Standard: 6 Rep: 1 Seq: 6 15:20:28 22 Dec 04 HG

Hg 10.0 ppb 417230

*** Check Standard: 2 Ck2WS2411 Seq: 7 15:23:23 22 Dec 04 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	5.13	5.00	ppb	.000 %

*** Check Standard: 1 Ck1ICB Seq: 8 15:25:22 22 Dec 04 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.000	ppb	.000 %

*** Sample ID: QC277279 Seq: 9 15:27:32 22 Dec 04 HG

97737,1

Hg -.199 ppb .000 % -.199

*** Sample ID: QC277280 Seq: 10 15:29:43 22 Dec 04 HG

97737,1

Hg 4.46 ppb .000 % 4.46

*** Sample ID: QC277281 Seq: 11 15:31:45 22 Dec 04 HG

97737,1

Hg 4.56 ppb .000 % 4.56

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MET04 HydraAA HG Analyzer Reviewed By: ---
Calnum: 44514989001 Name: Type: WATER Date: 22-DEC-2004 15:09 Inj Vol (uL): 2000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	97737	44514989001	Std01Rep1	22-DEC-2004 15:09	
2	97737	44514989002	Std02Rep1	22-DEC-2004 15:11	04WS2409 (500X)
3	97737	44514989003	Std03Rep1	22-DEC-2004 15:13	04WS2409 (200X)
4	97737	44514989004	Std04Rep1	22-DEC-2004 15:15	04WS2409 (50X)
5	97737	44514989005	Std05Rep1	22-DEC-2004 15:18	04WS2409 (20X)
6	97737	44514989006	Std06Rep1	22-DEC-2004 15:20	04WS2409 (10X)

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	Flags
Mercury		50600	55832	41033	43080	41723	LINR	R	-0.07840	2.406E-5		ug/L	46454	1.000	.99	

331

Curves: LINR: Linear regression

Instrument amount = a0 + response * a1 + response^2 * a2

WinHg Database 1.3

File Utility Help

RN RN

Protocol hgppb

Dataset/Proto 122204b /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.40623e-5

C -7.84025e-2

Rho .999782

Type Linear

☑ Calibrated

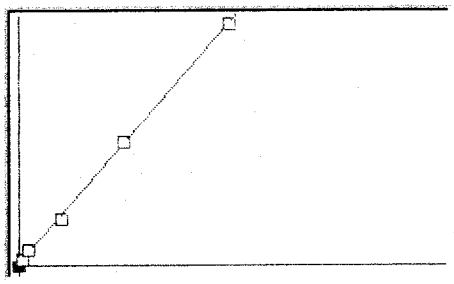
☑ Accepted

Accept

Rel. Abs.
417230

Accepted

New



Conc. 20.0

Include S1 Rep 1 ☑

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.020	-.020	2410	0	2409		
02	.20000	.165	-.035	10120	0%	10120		
03	.50000	.593	.093	27916	0%	27916		
04	2.0000	1.90	-.104	82066	0%	82065		
05	5.0000	5.10	.105	215402	0%	215401		
06	10.000	9.96	-.039	417231	0%	417230		

Ready

CAP NUM

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 22-DEC-2004

equence: 44514989 Instrument: MET04 HydraAA HG Analyzer
nalytical Method: EPA 7470A SOP Version: HG_water_rv7
nalyte: Mercury

!	Filename	Type	Samplenum	Subj Samp	Batch	Matrix	Analyzed	IDF	PDF	Stds	Spiked	Calnum	Result	RL	Units	%Rec	RPD	Flags
)1	97737	ICALBLK	Std01Rep1				22-DEC-2004 15:09	1.0	1.0									
)2	97737	ICAL	Std02Rep1				22-DEC-2004 15:11	1.0	1.0									
)3	97737	ICAL	Std03Rep1				22-DEC-2004 15:13	1.0	1.0									
)4	97737	ICAL	Std04Rep1				22-DEC-2004 15:15	1.0	1.0									
)5	97737	ICAL	Std05Rep1				22-DEC-2004 15:18	1.0	1.0									
)6	97737	ICAL	Std06Rep1				22-DEC-2004 15:20	1.0	1.0									
)7	97737	ICV					22-DEC-2004 15:23	1.0	1.0	2	5.000	44514989001	5.130		ug/L	103		
)8	97737	ICB					22-DEC-2004 15:25	1.0	1.0			44514989001	ND	0.20	ug/L			u
)9	97737	BLANK	QC277279		97737	Filtra	22-DEC-2004 15:27	1.0	1.0			44514989001	ND	0.20	ug/L			u
10	97737	BS	QC277280		97737	Filtra	22-DEC-2004 15:29	1.0	1.0		5.000	44514989001	4.460	0.20	ug/L	89		u
11	97737	BSD	QC277281		97737	Filtra	22-DEC-2004 15:31	1.0	1.0		5.000	44514989001	4.560	0.20	ug/L	91	2	u
12	97737	MSS	176662-001		97737	Filtra	22-DEC-2004 15:34	1.0	1.0			44514989001	ND	0.20	ug/L			u
)13	97737	MS	QC277282	176662-001	97737	Filtra	22-DEC-2004 15:36	1.0	1.0		5.000	44514989001	4.460	0.20	ug/L	89		u
)14	97737	MSD	QC277283	176662-001	97737	Filtra	22-DEC-2004 15:39	1.0	1.0		5.000	44514989001	4.550	0.20	ug/L	91	2	u
)15	97737	SAMPLE	176662-002		97737	Filtra	22-DEC-2004 15:41	1.0	1.0			44514989001	ND	0.20	ug/L			u
)16	97737	SAMPLE	176662-003		97737	Filtra	22-DEC-2004 15:43	1.0	1.0			44514989001	ND	0.20	ug/L			u
)17	97737	SAMPLE	176662-004		97737	Filtra	22-DEC-2004 15:45	1.0	1.0			44514989001	ND	0.20	ug/L			u
)18	97737	SAMPLE	176662-005		97737	Filtra	22-DEC-2004 15:47	1.0	1.0			44514989001	ND	0.20	ug/L			u
)19	97737	CCV					22-DEC-2004 15:50	1.0	1.0	3	2.500	44514989001	2.600		ug/L	104		
)20	97737	CCB					22-DEC-2004 15:52	1.0	1.0			44514989001	ND	0.20	ug/L			u
021	97737	SAMPLE	176662-006		97737	Filtra	22-DEC-2004 15:54	1.0	1.0			44514989001	ND	0.20	ug/L			u
022	97737	SAMPLE	176662-007		97737	Filtra	22-DEC-2004 15:56	1.0	1.0			44514989001	ND	0.20	ug/L			u
023	97737	SAMPLE	176662-008		97737	Filtra	22-DEC-2004 15:58	1.0	1.0			44514989001	ND	0.20	ug/L			u
024	97737	SAMPLE	176662-009		97737	Filtra	22-DEC-2004 16:00	1.0	1.0			44514989001	ND	0.20	ug/L			u
025	97737	SAMPLE	176662-009		97737	Water	22-DEC-2004 16:03	1.0	1.0			44514989001	ND	0.20	ug/L			u
026	97737	SAMPLE	176623-003		97737	Filtra	22-DEC-2004 16:05	1.0	1.0			44514989001	ND	0.20	ug/L			u
027	97737	SAMPLE	176705-001		97737	Filtra	22-DEC-2004 16:07	1.0	1.0			44514989001	ND	0.20	ug/L			u
028	97737	SAMPLE	176705-002		97737	Filtra	22-DEC-2004 16:09	1.0	1.0			44514989001	ND	0.20	ug/L			u
029	97737	SAMPLE	176705-003		97737	Filtra	22-DEC-2004 16:12	1.0	1.0			44514989001	ND	0.20	ug/L			u
030	97737	SAMPLE	176705-004		97737	Filtra	22-DEC-2004 16:14	1.0	1.0			44514989001	ND	0.20	ug/L			u
031	97737	CCV					22-DEC-2004 16:17	1.0	1.0	4	5.000	44514989001	4.770		ug/L	95		
032	97737	CCB					22-DEC-2004 16:19	1.0	1.0			44514989001	[0.01400]	0.20	ug/L			
033	97737	SAMPLE	176705-006		97737	Filtra	22-DEC-2004 16:21	1.0	1.0			44514989001	ND	0.20	ug/L			u
034	97737	SAMPLE	176705-007		97737	Filtra	22-DEC-2004 16:23	1.0	1.0			44514989001	ND	0.20	ug/L			u
035	97737	SAMPLE	176705-008		97737	Filtra	22-DEC-2004 16:25	1.0	1.0			44514989001	ND	0.20	ug/L			u
036	97737	CCV					22-DEC-2004 16:27	1.0	1.0	5	7.500	44514989001	7.150		ug/L	95		
037	97737	CCB					22-DEC-2004 16:29	1.0	1.0			44514989001	ND	0.20	ug/L			

Stds used: 1=04WS2409 2=04WS2411 3=04WS2412 4=04WS2413 5=04WS2414
Flags used: u=use

Analyst: [signature] Date: 12/22/04

Curtis & Tompkins Laboratories Sample Preparation Summary 22-DEC-2004 09:38

Batch Number : 97737
Date Extracted: 22-DEC-2004
Extracted by : Morris Luong Tran
Prep Method : METHOD

Analysis : N/A
Bgroup : HG
Units : ml
Clean-up :

Spike #1 ID : 04WS2409
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176623-003			Weston Solutions	Filtrate	50	ml	50	1.000000	1				TAL/HG		
176662-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-003			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-004			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-005			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-006			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-007			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-008			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-009			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176662-009			Treadwell & Rollo	Water	50	ml	50	1.000000	1				HG		
176705-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176705-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176705-003			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176705-004			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176705-006			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176705-007			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
176705-008			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HG		
QC277279	MB			Filtrate	50	ml	50	1.000000	1				HG		
QC277280	BS			Filtrate	50	ml	50	1.000000	1	2.5			HG		
QC277281	BSD	of QC277280		Filtrate	50	ml	50	1.000000	1	2.5			HG		
QC277282	MS	of 176662-001		Filtrate	50	ml	50	1.000000	1	2.5			HG		
QC277283	MSD	of 176662-001		Filtrate	50	ml	50	1.000000	1	2.5			HG		

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Water Digestion for Mercury

Curtis & Tompkins, Ltd.

LIMS Batch #: 97737

Date Digested: 12/22/04

Digested by: MW

Digestion Method

☑ EPA 7470A/ EPA 245.1

☐ _____

BK 2002

Page 68

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
176623 - 3 G	50.0	50.0		
176662 - 1 D				
2				
3				
4				
5				
6				
7				
8				
9				
176705 - 1 F				
2 G				
3 G				
4 G				
5 V				
6 D				
7 D				
8 D				
MB				
BS				
BSD				
176662 - 1 MS				
1 MSD				
176662 - 9 E				

	Reagent ID/ LIMS# / Time	Initials / Date
8 = 2.5 mL of spike solution was added to all spikes	04WS 24104	MW 12/22/04
ICAL Source WS#	04WS 24104	
ICV / CCV WS#	04WS 24 11/12/13/14	
Digestion of Samples & Standards: Time ON / Temperature ON	8:10 AM / 95°C	
Time OFF/ Temperature OFF	10:10 AM / 95°C	
concentrated H_2SO_4	M 29037	
concentrated HNO_3	B 4003	
5% $KMnO_4$	K 12304	
5% $K_2S_2O_8$	K2 12304	
NaCl.hydroxylamine hydrochloride	Hy 12 09 04	
Stannous Chloride	Sn Cl2 12 21 04	
☐ filtered thru' 0.45 um syringe filter	MW	

12/22/04

Prep Chemist / Date

Continued from page 335

Continued on page _____

Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8

Analyte	Units	MET05	
Aluminum	ug/L	03/29/04	0.57
Antimony	ug/L	03/29/04	0.066
Arsenic	ug/L	03/29/04	0.79
Barium	ug/L	03/29/04	0.17
Beryllium	ug/L	03/29/04	0.14
Cadmium	ug/L	03/29/04	0.20
Calcium	ug/L	03/29/04	17
Chromium	ug/L	03/29/04	0.044
Cobalt	ug/L	03/29/04	0.069
Copper	ug/L	06/21/04	0.28
Iron	ug/L	03/29/04	7.0
Lead	ug/L	03/29/04	0.048
Magnesium	ug/L	03/29/04	6.6
Manganese	ug/L	03/29/04	0.060
Molybdenum	ug/L	03/29/04	0.19
Nickel	ug/L	03/29/04	0.13
Potassium	ug/L	03/29/04	9.9
Selenium	ug/L	03/29/04	0.58
Silver	ug/L	03/29/04	0.16
Sodium	ug/L	03/29/04	18
Thallium	ug/L	03/29/04	0.17
Thorium	ug/L	04/14/03	0.15
Uranium	ug/L	04/14/03	0.041
Vanadium	ug/L	03/29/04	0.42
Zinc	ug/L	03/31/04	0.16

Curtis & Tompkins Laboratories
MDL Summary for EPA 7470A Water

Analyte	Units	MET03		MET04	
Mercury	ug/L	04/23/03	0.086	03/25/04	0.046

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF4GW103	Batch#:	97684
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	630	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	630	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF4GW104	Batch#:	97684
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	720	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	720	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF4GW105	Batch#:	97684
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	370	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	370	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF4GW106	Batch#:	97684
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	540	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	540	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF5GW102	Batch#:	97684
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	230	1.0
Alkalinity, Carbonate	92	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	320	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF5GW103	Batch#:	97684
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	360	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	360	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF5GW104	Batch#:	97684
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	360	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	360	1.0

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

135.0

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF10GW100	Batch#:	97684
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	510	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	510	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	LF10SP01	Batch#:	97684
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	220	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	220	1.0

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

137.0

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277163	Batch#:	97684
Matrix:	Water	Analyzed:	12/20/04
Units:	mg/L		

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC277164	Batch#:	97684
Matrix:	Water	Analyzed:	12/20/04

Spiked	Result	%REC	Limits
200.0	216.2	108	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	DAEGW104	Batch#:	97684
MSS Lab ID:	176705-001	Sampled:	12/15/04
Matrix:	Water	Received:	12/16/04
Units:	mg/L	Analyzed:	12/20/04

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC277165	289.8	200.0	489.9	100	69-112		
MSD	QC277166		200.0	510.6	110	69-112	4	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **12/20/04** H_2SO_4 Normality = **0.023**

Method: **EPA 310.1 /** SMWW 2320B Batch No: **97684** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
176662-001	6.90	25	0.00	13.80	634.80		n/a	1.0
176662-002	7.45	25	0.00	15.70	722.20		n/a	1.0
176662-003	7.10	25	0.00	8.00	368.00		n/a	1.0
176662-004	7.53	25	0.00	11.80	542.80		n/a	1.0
176662-005	9.28	25	1.00	7.00	322.00		n/a	1.0
176662-006	7.85	25	0.00	7.80	358.80		n/a	1.0
176662-007	7.68	25	0.00	7.90	363.40		n/a	1.0
176662-008	6.90	25	0.00	11.00	506.00		n/a	1.0
176662-009	7.29	25	0.00	4.80	220.80		n/a	1.0
176662-010	6.79	25	0.00	7.10	326.60		n/a	1.0
176705-001	7.25	25	0.00	6.30	289.80		n/a	1.0
176705-002	7.23	25	0.00	17.90	823.40		n/a	1.0
176705-003	6.89	25	0.00	5.50	253.00		n/a	1.0
176705-004	7.06	25	0.00	5.30	243.80		n/a	1.0
176705-006	6.83	25	0.00	7.40	340.40		n/a	1.0
176705-007	6.85	25	0.00	7.40	340.40		n/a	1.0
176705-008	7.97	25	0.00	5.60	257.60		n/a	1.0
176705-014	7.38	25	0.00	8.50	391.00		n/a	1.0
176705-015	7.38	25	0.00	8.40	386.40		n/a	1.0
176705-016	7.24	25	0.00	9.70	446.20		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.1	25	0.00	0.00	ND			1.0		
LCS	10.21	25	2.40	4.70	216.20			1.0	108	
176705-001	7.25	25	0.00	6.30	289.80			1.0		
MS	9.16	25	1.30	10.65	489.90			1.0	100	
MSD	9.17	25	1.30	11.10	510.60			1.0	110	4

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: _____

Analysis: **Alkalinity** Analysis Date: 12/20/04 H_2SO_4 Normality = 0.023

Method: **EPA 310.1** Batch No: 97684 Analyst: RS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
176662-001	0.0	634.8	634.8	634.800	0.000	0.000
176662-002	0.0	722.2	722.2	722.200	0.000	0.000
176662-003	0.0	368.0	368	368.000	0.000	0.000
176662-004	0.0	542.8	542.8	542.800	0.000	0.000
176662-005	46.0	276.0	322	230.000	92.000	0.000
176662-006	0.0	358.8	358.8	358.800	0.000	0.000
176662-007	0.0	363.4	363.4	363.400	0.000	0.000
176662-008	0.0	506.0	506	506.000	0.000	0.000
176662-009	0.0	220.8	220.8	220.800	0.000	0.000
176662-010	0.0	326.6	326.6	326.600	0.000	0.000
176705-001	0.0	289.8	289.8	289.800	0.000	0.000
176705-002	0.0	823.4	823.4	823.400	0.000	0.000
176705-003	0.0	253.0	253	253.000	0.000	0.000
176705-004	0.0	243.8	243.8	243.800	0.000	0.000
176705-006	0.0	340.4	340.4	340.400	0.000	0.000
176705-007	0.0	340.4	340.4	340.400	0.000	0.000
176705-008	0.0	257.6	257.6	257.600	0.000	0.000
176705-014	0.0	391.0	391	391.000	0.000	0.000
176705-015	0.0	386.4	386.4	386.400	0.000	0.000
176705-016	0.0	446.2	446.2	446.200	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 12/20/04 H_2SO_4 Normality = 0.023

Method: **EPA 310.1** Batch No: 97684 Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
176662-001	634.8	773.98	0.000	0.00
176662-002	722.2	880.54	0.000	0.00
176662-003	368	448.68	0.000	0.00
176662-004	542.8	661.81	0.000	0.00
176662-005	322	280.43	55.170	0.00
176662-006	358.8	437.47	0.000	0.00
176662-007	363.4	443.07	0.000	0.00
176662-008	506	616.94	0.000	0.00
176662-009	220.8	269.21	0.000	0.00
176662-010	326.6	398.21	0.000	0.00
176705-001	289.8	353.34	0.000	0.00
176705-002	823.4	1003.93	0.000	0.00
176705-003	253	308.47	0.000	0.00
176705-004	243.8	297.25	0.000	0.00
176705-006	340.4	415.03	0.000	0.00
176705-007	340.4	415.03	0.000	0.00
176705-008	257.6	314.08	0.000	0.00
176705-014	391	476.73	0.000	0.00
176705-015	386.4	471.12	0.000	0.00
176705-016	446.2	544.03	0.000	0.00

LIMS Batch #: 97684 Date: 12-20-04 Benchbook#: BK 1927
Matrix: H2O Time: 13:35 Page: 79

CAL-ph 4.0: SS#: 045598
CAL-ph 7.0: SS#: 045S344
CAL-ph 10.0: SS#: 045S382
Slope: 97.2
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1,000
$CaCO_3$ WS#: 04W308872
H_2SO_4 Normality: R312-20-04 ~~0.025~~ 0.023
H_2SO_4 Reagent ID: 6-17-05

Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk Total Vol (mL)	Comments
MB	25	5.10	—	40.05		
LCS	25	10.21	2.40	4.70		
176662-001G	25	6.90	—	13.80		
-002	25	7.45	—	15.70		
-003	25	7.10	—	8.00		
-004	25	7.53	—	11.80		
-005	25	9.28	1.00	7.00		
-006	25	7.85	—	7.80		
-007	25	7.68	—	7.90		
-008	25	6.90	—	11.00		
-009	25	7.29	—	4.80		
-010	25	6.79	—	7.10		
176705-001G	25	7.25	—	6.30		
MS -001	25	9.16	1.30	10.65		
MSD -001	25	9.17	1.30	10.10		
-002	25	7.23	—	17.90		
-003	25	6.89	—	5.50		
-004	25	7.06	—	5.30		
-006E	25	6.83	—	7.40		
-007	25	6.85	—	7.40		
-008	25	7.97	—	5.60		
-014	25	7.38	—	8.50		
-015	25	7.38	—	8.40		
-016	25	7.24	—	9.70		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

RShiffa 12-20-04
Analyst / Date

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97684
Date Started: 20-DEC-2004
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
176662-001			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-002			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-003			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-004			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-005			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-006			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-007			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-008			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-009			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-010			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176705-001			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-002			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-003			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-004			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-006			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-007			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-008			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-014			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-015			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-016			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
QC277163	MB			Water	ALKALINITY	
QC277164	LCS			Water	ALKALINITY	
QC277165	MS	of 176705-001		Water	ALKALINITY	
QC277166	MSD	of 176705-001		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF4GW103	Batch#:	97518
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
170	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF4GW104	Batch#:	97518
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
290	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF4GW105	Batch#:	97518
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
170	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF4GW106	Batch#:	97518
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
150	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF5GW102	Batch#:	97518
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
240	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF5GW103	Batch#:	97518
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
200	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF5GW104	Batch#:	97518
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
230	5.0

RL= Reporting Limit

85.0

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	LF10GW100	Batch#:	97518
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
64	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	10.00
Field ID:	LF10SP01	Batch#:	97518
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
95	2.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC		Limits	RPD	Lim	Diln Fac
BS	QC276429		4.000	4.350	109		80-120			1.000
BSD	QC276430		4.000	3.955	99		80-120	10	20	1.000
MS	QC276431	202.9	50.00	253.9	102	NM	80-120			25.00
MSD	QC276432		50.00	253.1	100	NM	80-120	0	25	25.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF4GW103	Batch#:	97518
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
0.11	0.10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF4GW104	Batch#:	97518
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF4GW105	Batch#:	97518
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF4GW106	Batch#:	97518
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF5GW102	Batch#:	97518
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF5GW103	Batch#:	97518
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF5GW104	Batch#:	97518
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF10GW100	Batch#:	97518
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

96.0

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	LF10SP01	Batch#:	97518
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		2.000	2.116	106	80-120			1.000
BSD	QC276430		2.000	1.916	96	80-120	10	20	1.000
MS	QC276431	0.06891	25.00	23.30	93	80-120			25.00
MSD	QC276432		25.00	21.68	86	80-120	7	20	25.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	1.000
Field ID:	LF4GW103	Batch#:	97518
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	1.000
Field ID:	LF4GW104	Batch#:	97518
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
0.41	0.05

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	1.000
Field ID:	LF4GW105	Batch#:	97518
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
2.1	0.05

RL= Reporting Limit

101.0

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	1.000
Field ID:	LF4GW106	Batch#:	97518
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
0.85	0.05

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	1.000
Field ID:	LF5GW102	Batch#:	97518
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
0.23	0.05

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	25.00
Field ID:	LF5GW103	Batch#:	97518
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
5.1	1.3

RL= Reporting Limit

104.0

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	25.00
Field ID:	LF5GW104	Batch#:	97518
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
5.4	1.3

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	25.00
Field ID:	LF10GW100	Batch#:	97518
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
41	1.3

RL= Reporting Limit

106.0

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	1.000
Field ID:	LF10SP01	Batch#:	97518
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
0.20	0.05

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		1.000	1.088	109	80-120			1.000
BSD	QC276430		1.000	1.016	102	80-120	7	20	1.000
MS	QC276431	5.105	12.50	17.82	102	80-120			25.00
MSD	QC276432		12.50	17.33	98	80-120	3	25	25.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF4GW103	Batch#:	97518
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF4GW104	Batch#:	97518
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF4GW105	Batch#:	97518
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF4GW106	Batch#:	97518
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF5GW102	Batch#:	97518
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
0.15	0.05

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF5GW103	Batch#:	97518
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF5GW104	Batch#:	97518
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF10GW100	Batch#:	97518
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	LF10SP01	Batch#:	97518
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		1.000	1.074	107	80-120			1.000
BSD	QC276430		1.000	1.006	101	80-120	7	20	1.000
MS	QC276431	<0.01100	12.50	12.85	103	80-120			25.00
MSD	QC276432		12.50	12.48	100	80-120	3	25	25.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	25.00
Field ID:	LF4GW103	Batch#:	97518
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
200	13

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	25.00
Field ID:	LF4GW104	Batch#:	97518
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
140	13

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	25.00
Field ID:	LF4GW105	Batch#:	97518
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
73	13

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	25.00
Field ID:	LF4GW106	Batch#:	97518
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
96	13

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	1.000
Field ID:	LF5GW102	Batch#:	97518
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
22	0.50

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	1.000
Field ID:	LF5GW103	Batch#:	97518
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
28	0.50

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	1.000
Field ID:	LF5GW104	Batch#:	97518
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
46	0.50

RL= Reporting Limit

125.0

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	25.00
Field ID:	LF10GW100	Batch#:	97518
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
290	13

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	1.000
Field ID:	LF10SP01	Batch#:	97518
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
28	0.50

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate			
Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		10.00	10.48	105	80-120			1.000
BSD	QC276430		10.00	9.642	96	80-120	8	20	1.000
MS	QC276431	27.54	125.0	152.5	100	80-120			25.00
MSD	QC276432		125.0	149.0	97	80-120	2	25	25.00

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph Reviewed By: CW
Calnum: 624241562001 Name: Type: (normal) Date: 15-JUN-2004 18:20 Inj Vol (uL): 25

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	167_2	624241562002	L1	15-JUN-2004 18:20	04SS201 (500X)
2	167_3	624241562003	L2	15-JUN-2004 18:38	04SS201 (100X)
3	167_4	624241562004	L3	15-JUN-2004 18:57	04SS201 (25X)
4	167_5	624241562005	L4	15-JUN-2004 19:15	04SS201 (10X)
5	167_6	624241562006	L5	15-JUN-2004 19:34	04SS201 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2178	0.2529	0.2568	0.2521	0.2625	QORG	A		0.245946	0.001632	mg/L	0.2484	1.000	0.990	
Chloride	0.1952	0.1581	0.1690	0.1664	0.1809	QORG	A		0.156183	0.001226	mg/L	0.1739	1.000	0.990	
Nitrogen, Nitrite	0.3100	0.3284	0.3455	0.3324	0.3524	QORG	A		0.322015	0.005996	mg/L	0.3338	1.000	0.990	
Nitrogen, Nitrate	0.3491	0.3779	0.4021	0.3882	0.4079	QORG	A		0.378144	0.005859	mg/L	0.3850	1.000	0.990	
Sulfate	0.1187	0.1197	0.1258	0.1233	0.1326	QORG	A		0.117099	3.063E-4	mg/L	0.1240	1.000	0.990	

Curves: QORG: Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Calname :
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :

ICV 624241562008 (167_8) standards: 03WS1209 (5X)

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Fluoride	P	624241562008	15-JUN-2004	1.0000	0.9258	mg/L	-7	10
Chloride	P	624241562008	15-JUN-2004	2.0000	1.9766	mg/L	-1	10
Nitrogen, Nitrite	P	624241562008	15-JUN-2004	0.5000	0.4870	mg/L	-3	10
Nitrogen, Nitrate	P	624241562008	15-JUN-2004	0.5000	0.4905	mg/L	-2	10
Sulfate	P	624241562008	15-JUN-2004	5.0000	4.8891	mg/L	-2	10

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph Reviewed By:
Calnum: 624241562001 Name: Type: (normal) Date: 15-JUN-2004 18:20 Inj Vol (uL): 25

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	167_2	624241562002	L1	15-JUN-2004 18:20	04SS201 (500X)
2	167_3	624241562003	L2	15-JUN-2004 18:38	04SS201 (100X)
3	167_4	624241562004	L3	15-JUN-2004 18:57	04SS201 (25X)
4	167_5	624241562005	L4	15-JUN-2004 19:15	04SS201 (10X)
5	167_6	624241562006	L5	15-JUN-2004 19:34	04SS201 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2178	0.2529	0.2568	0.2521	0.2625	QORG	A		0.245946	0.001632	mg/L	0.2484	1.000	0.990	
Chloride	0.1952	0.1581	0.1690	0.1664	0.1809	QORG	A		0.156183	0.001226	mg/L	0.1739	1.000	0.990	
Nitrogen, Nitrite	0.3100	0.3284	0.3455	0.3324	0.3524	QORG	A		0.322015	0.005996	mg/L	0.3338	1.000	0.990	
Bromide	0.0628	0.0674	0.0721	0.0687	0.0712	QORG	A		0.068074	1.526E-4	mg/L	0.0685	1.000	0.990	
Nitrogen, Nitrate	0.3491	0.3779	0.4021	0.3882	0.4079	QORG	A		0.378144	0.005859	mg/L	0.3850	1.000	0.990	
Orthophosphate (as P)	0.3551	0.2137	0.1697	0.1543	0.1582	QUAD	A	0.061800	0.145034	4.969E-4	mg/L	0.2102	1.000	0.990	
Sulfate	0.1187	0.1197	0.1258	0.1233	0.1326	QORG	A		0.117099	3.063E-4	mg/L	0.1240	1.000	0.990	

443

MRS 6/16/04

No Valid Second source verification for PO4P.

CWC 6/16/04

Curves: QORG: Quadratic regression forced through origin QUAD: Quadratic regression
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

Sequence: 167
Operator: ic_analyst
Printed: 6/16/2004 4:10:28 PM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004
Timebase: IC3_DX120
#Samples: 9
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 6/16/2004 10:57:25 AM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-167	IB		1.0000	IC03-7AN	Finished	6/15/2004 6:02:06 PM
2	CAL-167	ICAL, L1,04SS201,500		1.0000	IC03-7AN	Finished	6/15/2004 6:20:31 PM
3	CAL-167	ICAL, L2,04SS201,100		1.0000	IC03-7AN	Finished	6/15/2004 6:38:55 PM
4	CAL-167	ICAL, L3,04SS201,25		1.0000	IC03-7AN	Finished	6/15/2004 6:57:19 PM
5	CAL-167	ICAL, L4,04SS201,10		1.0000	IC03-7AN	Finished	6/15/2004 7:15:44 PM
6	CAL-167	ICAL, L5,04SS201,5		1.0000	IC03-7AN	Finished	6/15/2004 7:34:08 PM
7	CAL-167	ICB		1.0000	IC03-7AN	Finished	6/15/2004 7:52:33 PM
8	CAL-167	ICV,03WS1209,5		1.0000	IC03-7AN	Finished	6/15/2004 8:10:58 PM
9	CAL-167	SHUTDOWN		1.0000	IC03-7AN_OFF	Finished	6/15/2004 8:29:22 PM

Sequence: 167
Operator: ic_analyst
Printed: 6/16/2004 4:10:28 PM

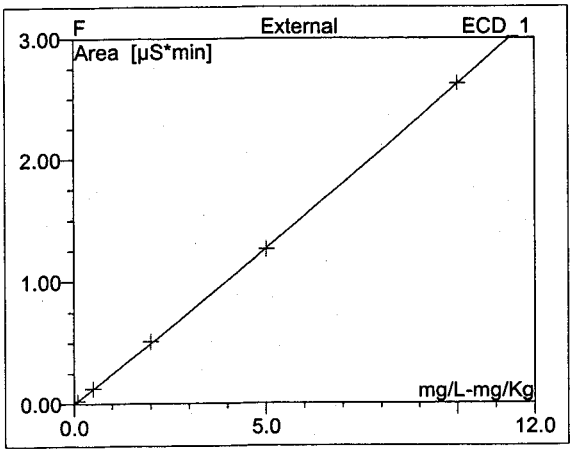
Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004
Timebase: IC3_DX120
#Samples: 9

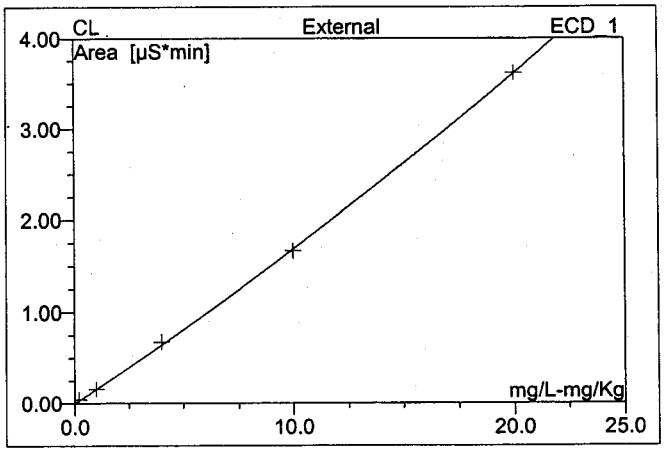
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 6/16/2004 10:57:25 AM by ic_analyst

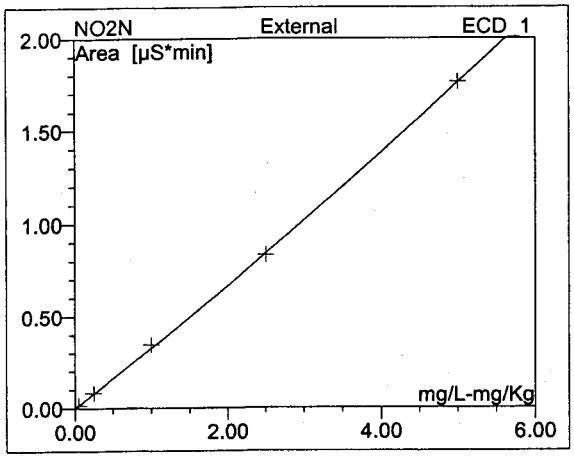
No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-167	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-167	ICAL, L1,04SS201,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-167	ICAL, L2,04SS201,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-167	ICAL, L3,04SS201,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-167	ICAL, L4,04SS201,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-167	ICAL, L5,04SS201,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-167	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-167	ICV,03WS1209,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
9	CAL-167	SHUTDOWN		IC03-7AN_CAL	Unknown	25.0	MRS	1

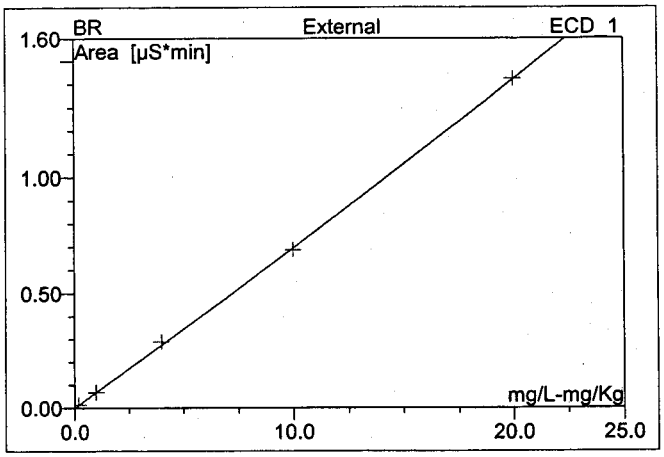
IC03 Calibration Batch Report

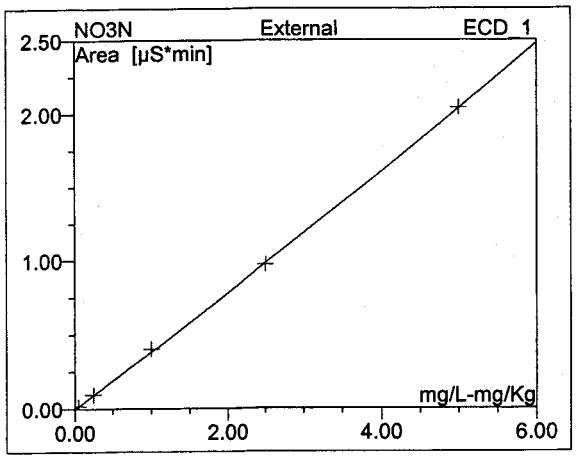
Sequence:	167	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	06/15/04 19:34	Run Time:	16.00

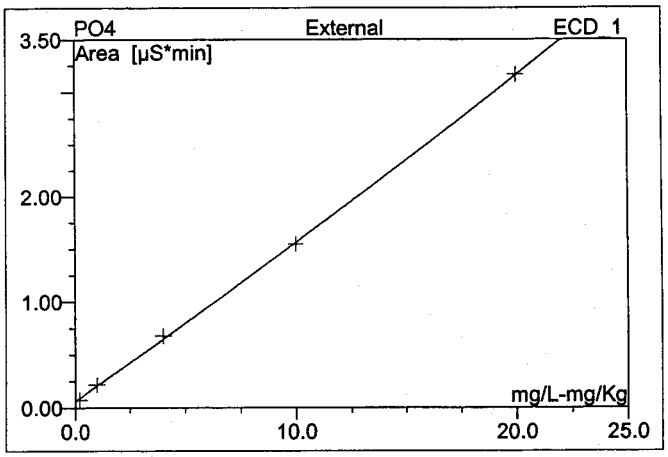




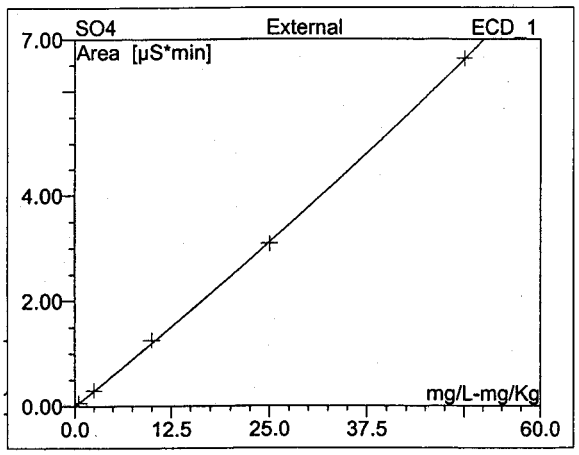








Sequence:	**167**	*Inj. Vol.:*	**25.0**
Program:	**IC03-7AN**	*Operator:*	**n.a.**
Inj. Date/Time:	**06/15/04 19:34**	*Run Time:*	**16.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.203	F	Quad	5	0.000000	0.245946	0.001632	99.980437
2	4.647	CL	Quad	5	0.000000	0.156183	0.001226	99.915771
3	5.480	NO2N	Quad	5	0.000000	0.322015	0.005996	99.958636
4	6.863	BR	Quad	5	0.000000	0.068074	0.000153	99.982005
5	7.680	NO3N	Quad	5	0.000000	0.378145	0.005859	99.970552
6	10.160	PO4	QOff	5	0.061801	0.145034	0.000497	99.973194
7	12.020	SO4	Quad	5	0.000000	0.117099	0.000306	99.938442
AVERAGE:					0.008829	0.204642	0.002238	99.959862

CW 6/16/04

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,04S	0.021782	0.039043	0.015501	0.012561	0.017454	0.071017	0.059341
3	ICAL, L2,04S	0.126458	0.158130	0.082093	0.067440	0.094469	0.213676	0.299229
4	ICAL, L3,04S	0.513649	0.676143	0.345537	0.288464	0.402072	0.678628	1.257777
5	ICAL, L4,04S	1.260321	1.663692	0.831086	0.687400	0.970557	1.543020	3.082077
6	ICAL, L5,04S	2.624636	3.618171	1.762116	1.424107	2.039335	3.164794	6.627644

CW 6/16/04

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,04S	0.187332	0.277080	0.093562	0.069046	0.078558	0.175438	0.181882
3	ICAL, L2,04S	0.991074	1.150408	0.468482	0.317884	0.379332	0.589224	0.916406
4	ICAL, L3,04S	4.231662	4.967876	1.971580	1.371522	1.643090	2.034386	3.867970
5	ICAL, L4,04S	10.603688	12.593416	4.782438	3.304684	3.999650	4.809042	9.615142
6	ICAL, L5,04S	22.464870	27.607642	9.942792	6.897288	8.457848	10.178594	20.875042

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,04S	0.088511	0.249491	0.048095	0.184442	0.046125	0.063534	0.506089
3	ICAL, L2,04S	0.512429	1.004539	0.253737	0.988497	0.248864	1.043439	2.538491
4	ICAL, L3,04S	2.060289	4.191218	1.052425	4.198025	1.046314	4.192752	10.455201
5	ICAL, L4,04S	4.961030	9.884881	2.467528	9.879133	2.471952	9.878546	24.721636
6	ICAL, L5,04S	10.006956	20.019111	5.005633	20.021590	5.004887	20.021466	50.047049

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.200	Minimum Area	0.001 "[Signal]*min"	ECD_1
3	2.250	Peak Slice	0.05 s	ECD_1
4	2.900	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,04SS201,500
1	F	3.200 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.613 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.433 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.823 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.643 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	PO4	9.953 min	10.000 RG	External	Area	QOff	Auto		0.200000
7	SO4	11.693 min	10.000 RG	External	Area	Quad	Auto		0.500000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,04SS201,100	Amount ICAL, L3,04SS201,25	Amount ICAL, L4,04SS201,10	Amount ICAL, L5,04SS201,5
1	F	3.200 min	0.500000	2.000000	5.000000	10.000000
2	CL	4.613 min	1.000000	4.000000	10.000000	20.000000
3	NO2N	5.433 min	0.250000	1.000000	2.500000	5.000000
4	BR	6.823 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.643 min	0.250000	1.000000	2.500000	5.000000
6	PO4	9.953 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.693 min	2.500000	10.000000	25.000000	50.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Comment
1	F	3.200 min	
2	CL	4.613 min	
3	NO2N	5.433 min	
4	BR	6.823 min	
5	NO3N	7.643 min	
6	PO4	9.953 min	
7	SO4	11.693 min	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,04SS201,500	Amount ICAL, L2,04SS201,100	Amount ICAL, L3,04SS201,25
1	F	3.200 min	1.000000	0.100000	0.500000	2.000000
2	CL	4.613 min	1.000000	0.200000	1.000000	4.000000
3	NO2N	5.433 min	1.000000	0.050000	0.250000	1.000000
4	BR	6.823 min	1.000000	0.200000	1.000000	4.000000
5	NO3N	7.643 min	1.000000	0.050000	0.250000	1.000000
6	PO4	9.953 min	1.000000	0.200000	1.000000	4.000000
7	SO4	11.693 min	1.000000	0.500000	2.500000	10.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L4,04SS201,10	Amount ICAL, L5,04SS201,5	Comment
1	F	3.200 min	5.000000	10.000000	
2	CL	4.613 min	10.000000	20.000000	
3	NO2N	5.433 min	2.500000	5.000000	
4	BR	6.823 min	10.000000	20.000000	
5	NO3N	7.643 min	2.500000	5.000000	
6	PO4	9.953 min	10.000000	20.000000	
7	SO4	11.693 min	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,04SS201,500	2	179	25.0	1.0000	1.0000	1.0000	6/15/2004 6:20:31 PM
2	☒	ICAL, L2,04SS201,100	3	179	25.0	1.0000	1.0000	1.0000	6/15/2004 6:38:55 PM
3	☒	ICAL, L3,04SS201,25	4	180	25.0	1.0000	1.0000	1.0000	6/15/2004 6:57:19 PM
4	☒	ICAL, L4,04SS201,10	5	181	25.0	1.0000	1.0000	1.0000	6/15/2004 7:15:44 PM
5	☒	ICAL, L5,04SS201,5	6	182	25.0	1.0000	1.0000	1.0000	6/15/2004 7:34:08 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Calibration:

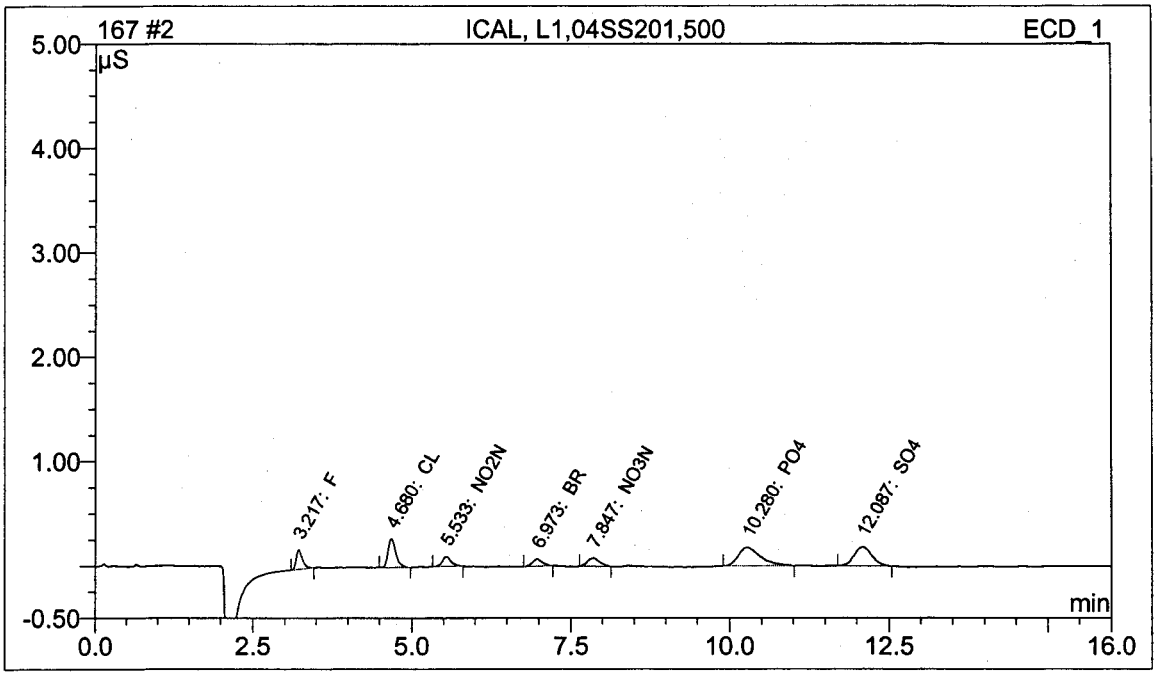
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,04SS201,500	Ok
2	☒	ICAL, L2,04SS201,100	Ok
3	☒	ICAL, L3,04SS201,25	Ok
4	☒	ICAL, L4,04SS201,10	Ok
5	☒	ICAL, L5,04SS201,5	Ok

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,04SS201,500	**Sample No.:**	2
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.217	0.021782	0.0885	0.0885	
2	CL	4.680	0.039043	0.2495	0.2495	
3	NO2N	5.533	0.015501	0.0481	0.0481	
4	BR	6.973	0.012561	0.1844	0.1844	
5	NO3N	7.847	0.017454	0.0461	0.0461	
6	PO4	10.280	0.071017	0.0635	0.0635	
7	SO4	12.087	0.059341	0.5061	0.5061	



ANALYZED BY:

MRS 6/16/04

REVIEWED BY:

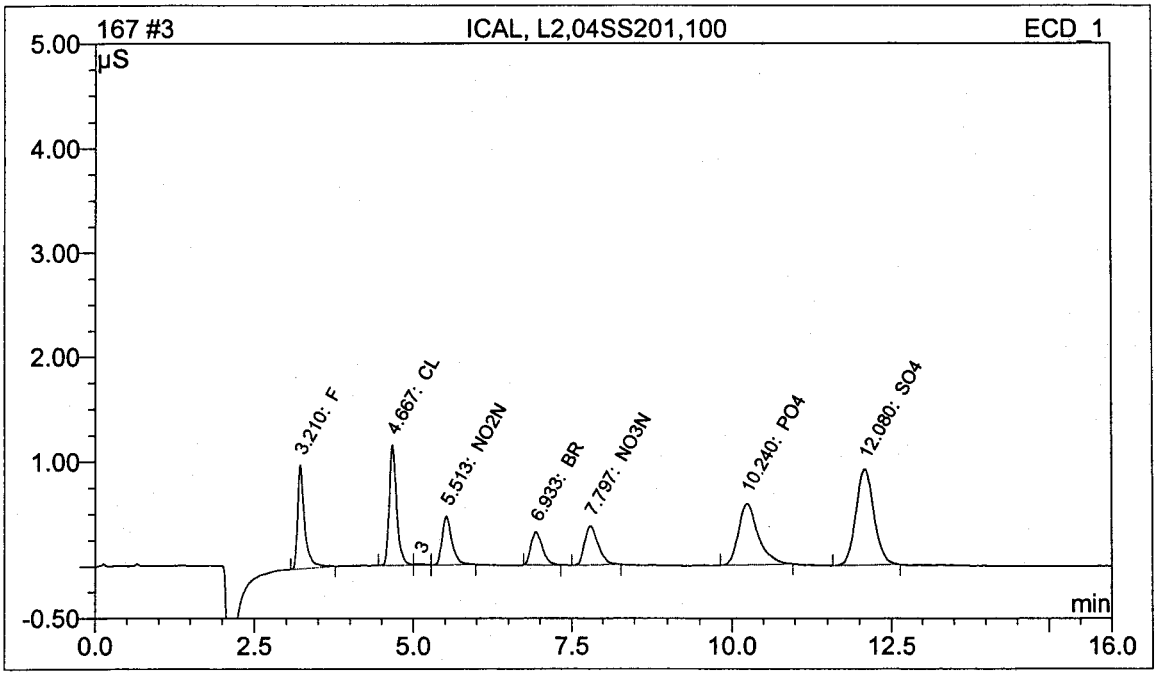
aw 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,04SS201,100	**Sample No.:**	3
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.210	0.126458	0.5124	0.5124	
2	CL	4.667	0.158130	1.0045	1.0045	
4	NO2N	5.513	0.082093	0.2537	0.2537	
5	BR	6.933	0.067440	0.9885	0.9885	
6	NO3N	7.797	0.094469	0.2489	0.2489	
7	PO4	10.240	0.213676	1.0434	1.0434	
8	SO4	12.080	0.299229	2.5385	2.5385	



ANALYZED BY: MRS 6/16/04

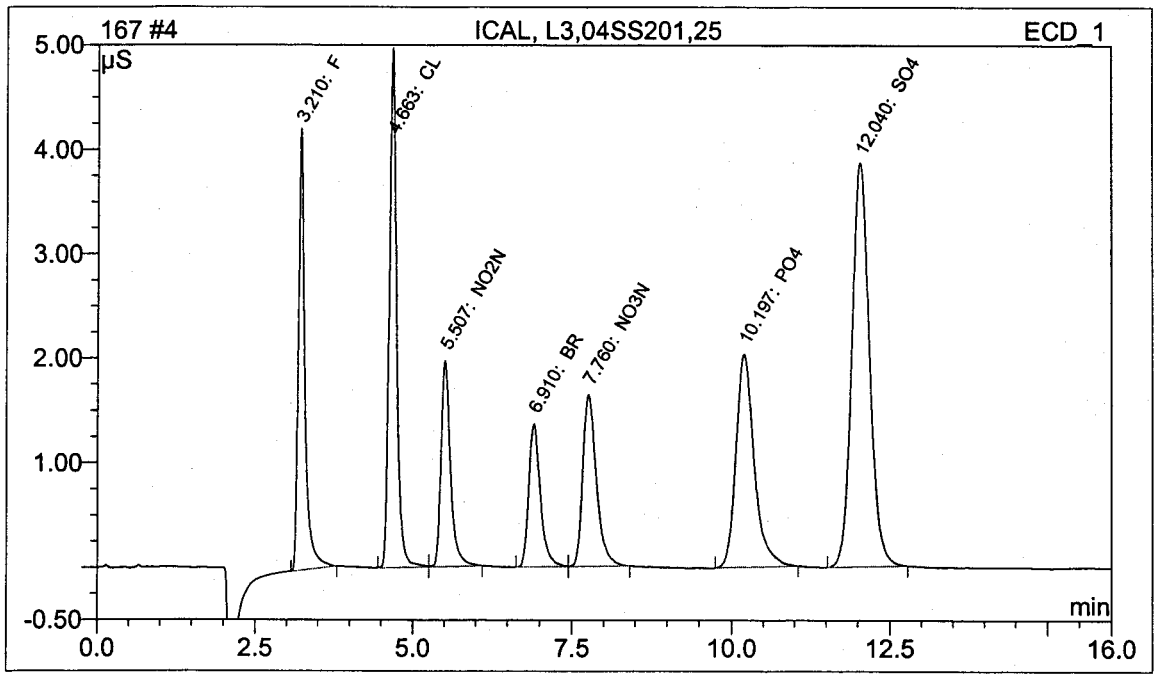
REVIEWED BY: [illegible] 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,04SS201,25	**Sample No.:**	4
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.210	0.513649	2.0603	2.0603	
2	CL	4.663	0.676143	4.1912	4.1912	
3	NO2N	5.507	0.345537	1.0524	1.0524	
4	BR	6.910	0.288464	4.1980	4.1980	
5	NO3N	7.760	0.402072	1.0463	1.0463	
6	PO4	10.197	0.678628	4.1928	4.1928	
7	SO4	12.040	1.257777	10.4552	10.4552	



ANALYZED BY: MRS 6/16/04

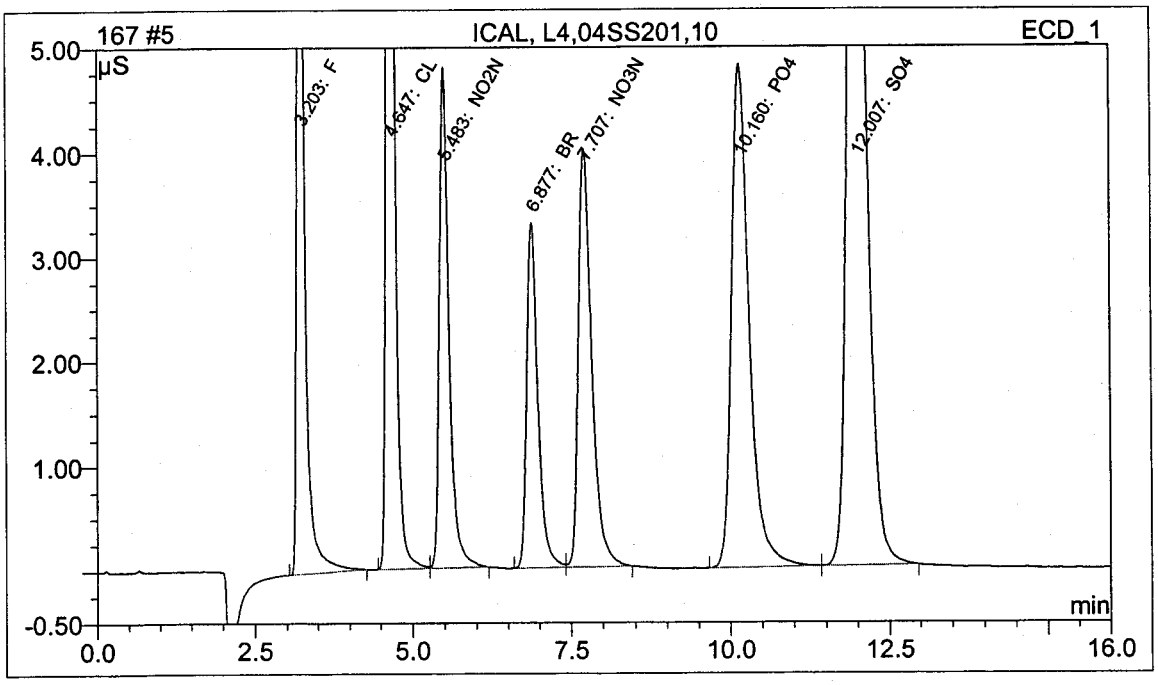
REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,04SS201,10	**Sample No.:**	5
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.203	1.260321	4.9610	4.9610	
2	CL	4.647	1.663692	9.8849	9.8849	
3	NO2N	5.483	0.831086	2.4675	2.4675	
4	BR	6.877	0.687400	9.8791	9.8791	
5	NO3N	7.707	0.970557	2.4720	2.4720	
6	PO4	10.160	1.543020	9.8785	9.8785	
7	SO4	12.007	3.082077	24.7216	24.7216	



ANALYZED BY: MRS 6/16/04

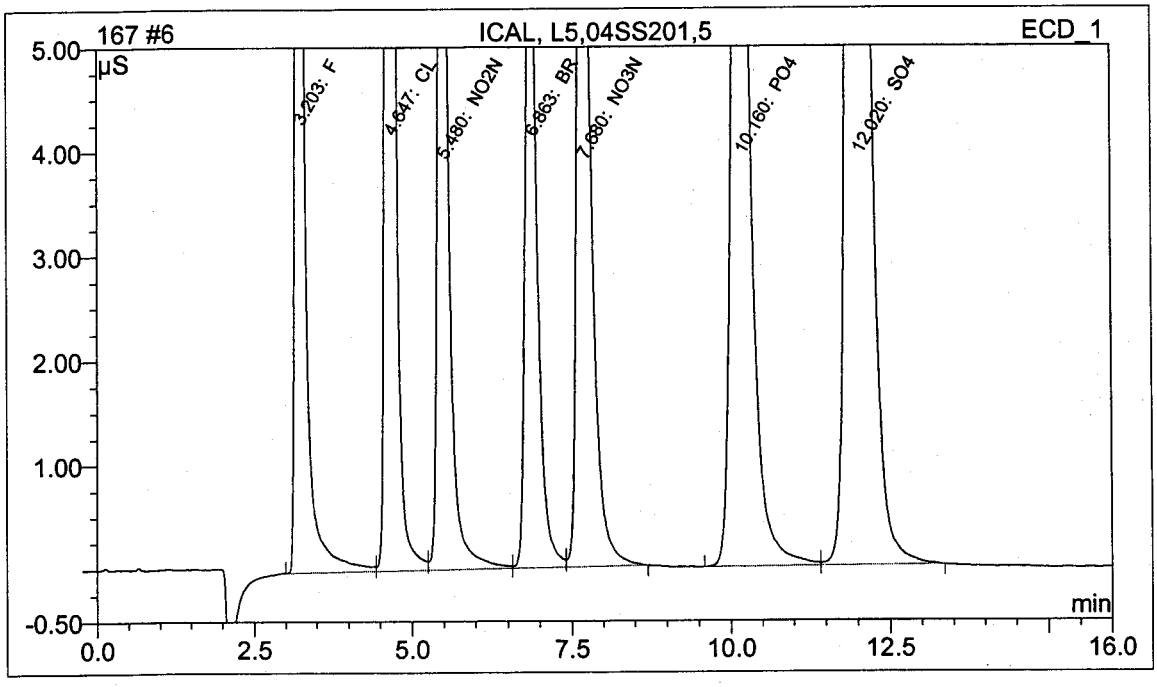
REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,04SS201,5	**Sample No.:**	6
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.203	2.624636	10.0070	10.0070	
2	CL	4.647	3.618171	20.0191	20.0191	
3	NO2N	5.480	1.762116	5.0056	5.0056	
4	BR	6.863	1.424107	20.0216	20.0216	
5	NO3N	7.680	2.039335	5.0049	5.0049	
6	PO4	10.160	3.164794	20.0215	20.0215	
7	SO4	12.020	6.627644	50.0470	50.0470	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : IC03 Run Name :
Seqnum : 624241562008 Filename : 167_8 Injected : 15-JUN-2004 20:10
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 03WS1209 (5X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Fluoride	1.000000	0.925849	mg/L	-7	10	
Chloride	2.000000	1.976638	mg/L	-1	10	
Nitrogen, Nitrite	0.500000	0.487045	mg/L	-3	10	
Bromide	2.000000	2.012730	mg/L	1	10	
Nitrogen, Nitrate	0.500000	0.490528	mg/L	-2	10	
Orthophosphate (as P)	2.000000	1.775567	mg/L	**-11**	10	v- ***
Sulfate	5.000000	4.889075	mg/L	-2	10	

MLS 6/16/04

ICV not good for PO4P

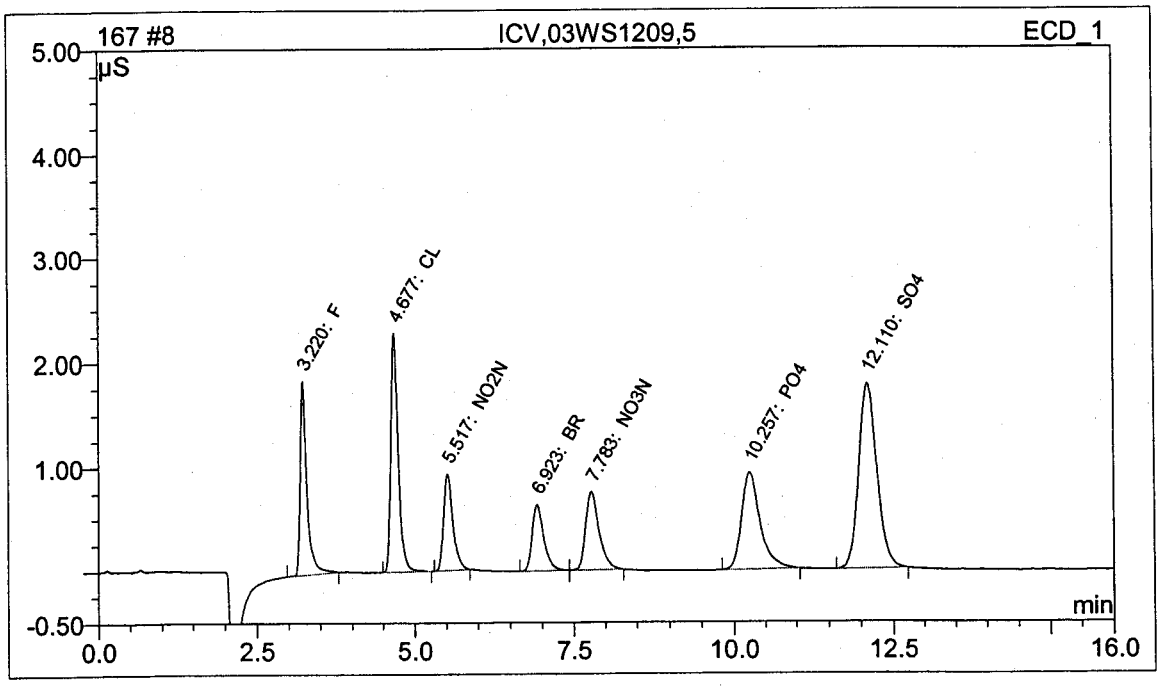
CW 6/16/04

-=low bias v=ICV
Page 1 of 1

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,03WS1209,5	**Sample No.:**	8
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 8:10 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.220	0.229108	0.9258	0.9258	
2	CL	4.677	0.313510	1.9766	1.9766	
3	NO2N	5.517	0.158258	0.4870	0.4870	
4	BR	6.923	0.137632	2.0127	2.0127	
5	NO3N	7.783	0.186900	0.4905	0.4905	
6	PO4	10.257	0.320885	1.7756	1.7756	
7	SO4	12.110	0.579828	4.8891	4.8891	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624241562007 Run Name: Injected: 15-JUN-2004 19:52
Filename: 167_7 Run Type: ICB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	[0.0217]	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	[0.0523]	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

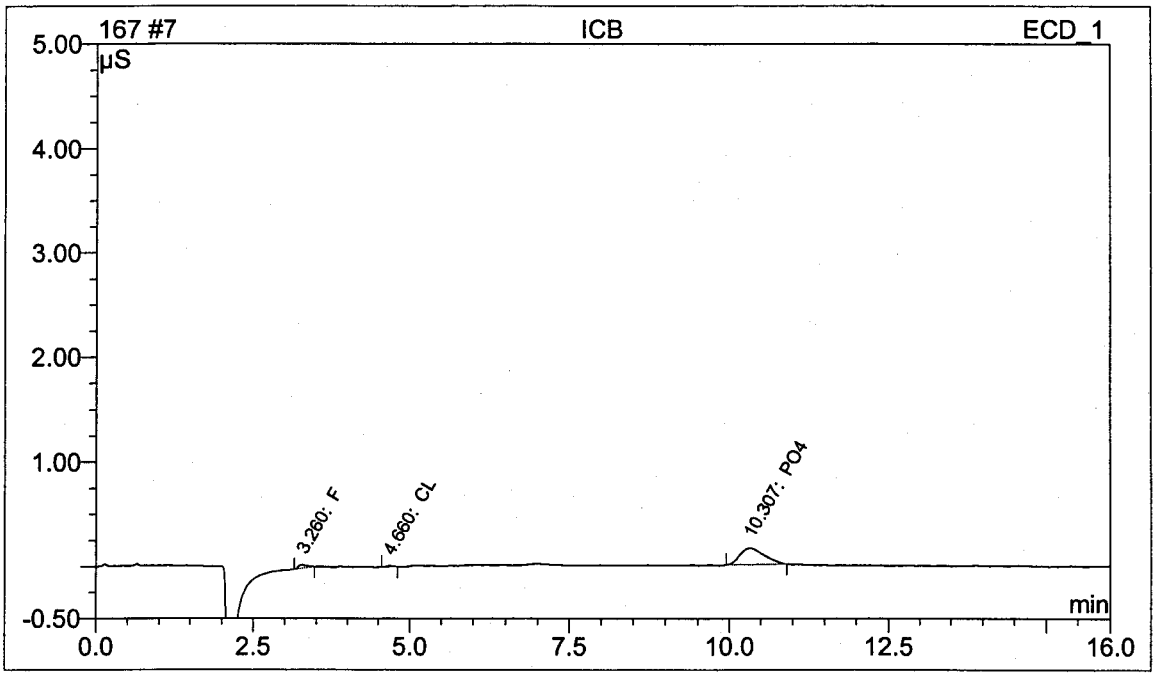
MRS 6/16/04

CW 6/16/04

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICB	**Sample No.:**	7
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:52 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.260	0.005338	0.0217	0.0217	
2	CL	4.660	0.001352	0.0087	0.0087	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
3	PO4	10.307	0.069393	0.0523	0.0523	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624241562001 Run Name: Injected: 15-JUN-2004 18:02
Filename: 167_1 Run Type: IB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624200842001	18-MAY-2004	ND	0.100000	mg/L	<RL
Chloride	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624200842001	18-MAY-2004	ND	0.050000	mg/L	<RL
Bromide	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624200842001	18-MAY-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Sulfate	624200842001	18-MAY-2004	ND	0.500000	mg/L	<RL

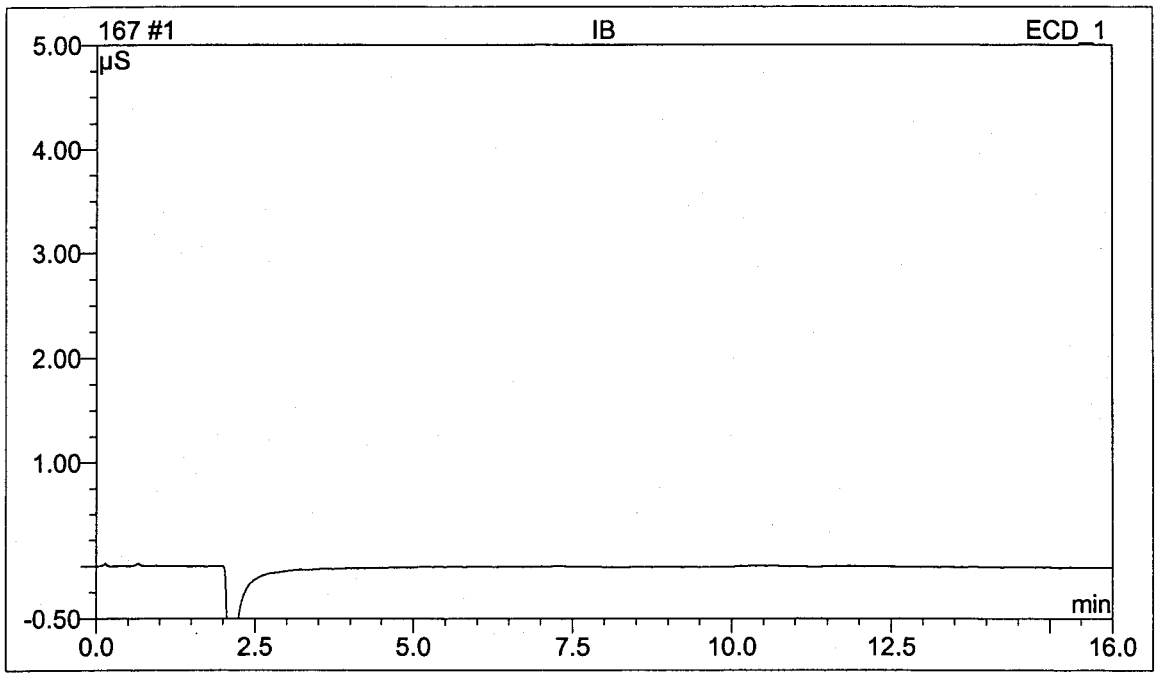
MLS 6/16/04

CW 6/16/04

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	IB	**Sample No.:**	1
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
n.a.	CL	n.a.	n.a.	n.a.	n.a.	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
n.a.	PO4	n.a.	n.a.	n.a.	n.a.	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Run Name : L IDF : 1.0
Seqnum : 624505045007 Filename : 350_7 Injected : 15-DEC-2004 16:30
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 04SS442 (100X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2440	0.500000	0.494490	mg/L	-1	10	
Chloride	0.1739	0.1605	1.000000	1.019401	mg/L	2	10	
Nitrogen, Nitrite	0.3338	0.3172	0.250000	0.245109	mg/L	-2	10	
Nitrogen, Nitrate	0.3850	0.3818	0.250000	0.251448	mg/L	1	10	
Sulfate	0.1240	0.1170	2.500000	2.482143	mg/L	-1	10	

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid	: IC03	Run Name	: M	IDF	: 1.0
Seqnum	: 624505045018	Filename	: 350_18	Injected	: 15-DEC-2004 19:53
Calnum	: 624241562001	Caldate	: 15-JUN-2004	Caltype	:
Standards:	04SS442 (25X)				

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2663	2.000000	2.135244	mg/L	7	10	
Chloride	0.1739	0.1721	4.000000	4.263688	mg/L	7	10	
Nitrogen, Nitrite	0.3338	0.3547	1.000000	1.079710	mg/L	8	10	
Nitrogen, Nitrate	0.3850	0.4199	1.000000	1.091828	mg/L	9	10	
Sulfate	0.1240	0.1262	10.00000	10.49243	mg/L	5	10	

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Run Name : H IDF : 1.0
Seqnum : 624505045032 Filename : 350_32 Injected : 16-DEC-2004 00:10
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 04SS442 (10X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2750	5.000000	5.397699	mg/L	8	10	
Chloride	0.1739	0.1742	10.00000	10.31974	mg/L	3	10	
Nitrogen, Nitrite	0.3338	0.3439	2.500000	2.549172	mg/L	2	10	
Nitrogen, Nitrate	0.3850	0.4138	2.500000	2.628705	mg/L	5	10	
Sulfate	0.1240	0.1278	25.00000	25.57568	mg/L	2	10	

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Run Name : L IDF : 1.0
Seqnum : 624505045045 Filename : 350_45 Injected : 16-DEC-2004 04:10
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 04SS442 (100X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2527	0.500000	0.512064	mg/L	2	10	
Chloride	0.1739	0.1668	1.000000	1.059267	mg/L	6	10	
Nitrogen, Nitrite	0.3338	0.3311	0.250000	0.255826	mg/L	2	10	
Nitrogen, Nitrate	0.3850	0.4069	0.250000	0.267912	mg/L	7	10	
Sulfate	0.1240	0.1240	2.500000	2.629744	mg/L	5	10	

BLANK USER REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories
EPA 300.0

Instid	: IC03	Samplenum	: QC276428	Cident	:
Seqnum	: 624505045008	Matrix	: Water	Acctnum	: TREADWELL
Filename	: 350_8	Batchnum	: 97518	Injected	: 15-DEC-2004 16:48
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Calnum	: 624241562001	Caldate	: 15-JUN-2004	Caltype	:

Analyte	Result	RL	Flags
Fluoride	ND	0.10	u
Chloride	ND	0.20	u
Nitrogen, Nitrite	ND	0.05	u
Nitrogen, Nitrate	ND	0.05	u
Sulfate	ND	0.50	u

u=use

INSTRUMENT BLANK REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624505045019 Run Name: Injected: 15-DEC-2004 20:11
Filename: 350_19 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

INSTRUMENT BLANK REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624505045033 Run Name: Injected: 16-DEC-2004 00:29
Filename: 350_33 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	[0.0141]	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

INSTRUMENT BLANK REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624505045046 Run Name: Injected: 16-DEC-2004 04:28
Filename: 350_46 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

SEQUENCE SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Sequence: 624241562 Instrument: IC03 Ion Chromatograph Begun: 15-JUN-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	167_1	IB				15-JUN-2004 18:02	1.0		25				
002	167_2	ICAL	L1			15-JUN-2004 18:20	1.0					1	
003	167_3	ICAL	L2			15-JUN-2004 18:38	1.0					1	
004	167_4	ICAL	L3			15-JUN-2004 18:57	1.0					1	
005	167_5	ICAL	L4			15-JUN-2004 19:15	1.0					1	
006	167_6	ICAL	L5			15-JUN-2004 19:34	1.0					1	
007	167_7	ICB				15-JUN-2004 19:52	1.0		25				
008	167_8	ICV				15-JUN-2004 20:10	1.0	1	25			2	
009	167_9	X	SHUTDOWN			15-JUN-2004 20:29	1.0						

446

Stds used: 1=04SS201 2=03WS1209

SEQUENCE SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Sequence: 624505045 Instrument: IC03 Ion Chromatograph Begun: 15-DEC-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
007	350_7	CCV	L	97518		15-DEC-2004 16:30	1.0	1		25			1	
008	350_8	CCB/MB	QC276428	97518	Water	15-DEC-2004 16:48	1.0	1		25				
009	350_9	BS	QC276429	97518	Water	15-DEC-2004 17:07	1.0	1		25			1	
010	350_10	BSD	QC276430	97518	Water	15-DEC-2004 17:25	1.0	1		25			1	
011	350_11	SAMPLE	176662-001	97518	Water	15-DEC-2004 17:44	1.0	2		25				2:SO4=186.273
012	350_12	SAMPLE	176662-002	97518	Water	15-DEC-2004 18:02	1.0	2		25				2:CL=178.276
013	350_13	SAMPLE	176662-003	97518	Water	15-DEC-2004 18:20	1.0	2		25				2:CL=104.948
014	350_14	SAMPLE	176662-004	97518	Water	15-DEC-2004 18:39	1.0	2		25				2:CL=112.712
015	350_15	SAMPLE	176662-005	97518	Water	15-DEC-2004 18:57	1.0	1		25				1:CL=116.113
016	350_16	MSS	176662-006	97518	Water	15-DEC-2004 19:16	1.0	3		25				2:CL=106.841
017	350_17	SAMPLE	176662-007	97518	Water	15-DEC-2004 19:34	1.0	2		25				2:CL=115.178
018	350_18	CCV	M	97518		15-DEC-2004 19:53	1.0			25			1	
019	350_19	CCB		97518		15-DEC-2004 20:11	1.0			25				
020	350_20	X	CCV	97518		15-DEC-2004 20:29	1.0						1	
021	350_21	X	CCB	97518		15-DEC-2004 20:48	1.0							
022	350_22	SAMPLE	176662-008	97518	Water	15-DEC-2004 21:06	1.0	3		25				3:SO4=253.320
023	350_23	SAMPLE	176662-009	97518	Water	15-DEC-2004 21:25	1.0	1		25				1:CL=78.6527
024	350_24	SAMPLE	176662-010	97518	Water	15-DEC-2004 21:43	1.0	3		25				3:CL=92.8816
025	350_25	MSS	176662-006	97518	Water	15-DEC-2004 22:01	25.0			25				
026	350_26	MS	QC276431	97518	Water	15-DEC-2004 22:20	25.0	1		25			1	
027	350_27	MSD	QC276432	97518	Water	15-DEC-2004 22:38	25.0	1		25			1	
028	350_28	SAMPLE	176662-001	97518	Water	15-DEC-2004 22:57	25.0			25				
029	350_29	SAMPLE	176662-002	97518	Water	15-DEC-2004 23:15	25.0			25				
030	350_30	SAMPLE	176662-003	97518	Water	15-DEC-2004 23:33	25.0			25				
031	350_31	SAMPLE	176662-004	97518	Water	15-DEC-2004 23:52	25.0			25				
032	350_32	CCV	H	97518		16-DEC-2004 00:10	1.0			25			1	
033	350_33	CCB		97518		16-DEC-2004 00:29	1.0			25				
034	350_34	X	CCV	97518		16-DEC-2004 00:47	1.0						1	
035	350_35	X	CCB	97518		16-DEC-2004 01:05	1.0							
036	350_36	SAMPLE	176662-005	97518	Water	16-DEC-2004 01:24	25.0			25				
037	350_37	SAMPLE	176662-007	97518	Water	16-DEC-2004 01:42	25.0			25				

Stds used: 1=04SS442

SEQUENCE SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Sequence: 624505045 Instrument: IC03 Ion Chromatograph Begun: 15-DEC-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
038	350_38	SAMPLE	176662-008	97518	Water	16-DEC-2004 02:01	25.0			25				
039	350_39	SAMPLE	176662-009	97518	Water	16-DEC-2004 02:19	10.0			25				
040	350_40	SAMPLE	176662-010	97518	Water	16-DEC-2004 02:38	25.0			25				
041	350_41	X	BLK	97518		16-DEC-2004 02:56	1.0							
042	350_42	SAMPLE	176649-002	97518	Water	16-DEC-2004 03:14	100.0			25				
043	350_43	SAMPLE	176649-002	97518	Water	16-DEC-2004 03:33	10.0	1		25				1:NO3N=30.0634
044	350_44	X	BLK	97518		16-DEC-2004 03:51	1.0							
045	350_45	CCV	L	97518		16-DEC-2004 04:10	1.0	2		25			1	
046	350_46	CCB		97518		16-DEC-2004 04:28	1.0			25				
047	350_47	X	CCV	97518		16-DEC-2004 04:46	1.0						1	
048	350_48	X	CCB	97518		16-DEC-2004 05:05	1.0							
049	350_49	X	SHUTDOWN	97518		16-DEC-2004 05:23	1.0							

448

Stds used: 1=04SS442

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
176662-001	IC03	12/15/04 17:44	1.0	+		+	+		
176662-001	IC03	12/15/04 22:57	25.0		+			+	
176662-002	IC03	12/15/04 18:02	1.0	+		+	+		
176662-002	IC03	12/15/04 23:15	25.0		+			+	
176662-003	IC03	12/15/04 18:20	1.0	+		+	+		
176662-003	IC03	12/15/04 23:33	25.0		+			+	
176662-004	IC03	12/15/04 18:39	1.0	+		+	+		
176662-004	IC03	12/15/04 23:52	25.0		+			+	
176662-005	IC03	12/15/04 18:57	1.0	+		+	+	+	
176662-005	IC03	12/16/04 01:24	25.0		+				
176662-006	IC03	12/15/04 19:16	1.0	+		+		+	
176662-006	IC03	12/15/04 22:01	25.0		+		+		
176662-007	IC03	12/15/04 19:34	1.0	+		+		+	
176662-007	IC03	12/16/04 01:42	25.0		+		+		
176662-008	IC03	12/15/04 21:06	1.0	+		+			
176662-008	IC03	12/16/04 02:01	25.0		+		+	+	
176662-009	IC03	12/15/04 21:25	1.0	+		+	+	+	
176662-009	IC03	12/16/04 02:19	10.0		+				
176662-010	IC03	12/15/04 21:43	1.0	+		+			
176662-010	IC03	12/16/04 02:38	25.0		+		+	+	
QC276428	IC03	12/15/04 16:48	1.0	+	+	+	+	+	
QC276429	IC03	12/15/04 17:07	1.0	+	+	+	+	+	
QC276430	IC03	12/15/04 17:25	1.0	+	+	+	+	+	
QC276431	IC03	12/15/04 22:20	25.0	+	+	+	+	+	
QC276432	IC03	12/15/04 22:38	25.0	+	+	+	+	+	

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☒ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 97518
Date Started: 12/15/04
Prep Chemist: MRS

BK 2052
Page 2

	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	176649-002 A-D	N/A	100x / 10x	P, Ag, Na, S	Comp. bottles A-D
2	176662-001 E	1.46	1x / 25x	S	
3	-002	1.62			
4	-003	0.99			
5	-004	1.10			
6	-005	0.95			
7	-006	1.03			MSS
8	-007	1.08			
9	-008	1.31			
10	-009 F	0.55	10x		
11	-010 E	1.05	25x		
12	MB QC276428	N/A	1x	N/A	
13	BS QC276429				
14	BSD QC276430				
15	MS QC276431 E		25x	S	
16	MSD QC276432 E		25x	S	
17					
18					
19					
20					

		Mfg & Lot # / Time / Program	Initials / Date
	Eluent Reagent ID	100X MRS 11/22/04	MRS 12/15/04
BS/BSD Spiked with	0.2 mL of :	0455442	
MS/MSD Spiked with	0.1 mL of :	0455442	
Filters Used:	Ag: OnGuard II Ag	~~N/A~~ MRS 11/15/04 040721-1-Ag	
	Na: OnGuard II Na	MRS 12/15/04 040325-1-Na	
	P: OnGuard II P	MRS 12/15/04 ~~N/A~~ 031202-1-P	
	RP: OnGuard II RP	MRS 12/15/04 N/A	
	S: 0.20um/0.45um	Accodisc lot # A104208 09	

MRS 12/15/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

SJD 12/16/04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97518
Date Started: 15-DEC-2004
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
176649-002			Acme Fill Corp.	Water	NITRATE, NITRITE	28-DEC-2004
176662-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
QC276428	MB			Water		
QC276429	BS			Water		
QC276430	BSD			Water		
QC276431	MS	of 176662-006		Water		
QC276432	MSD	of 176662-006		Water		

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water

Analyte	Units	IC01		IC02		IC03	
Fluoride	mg/L	05/11/04	0.0046			05/26/04	0.0095
Chloride	mg/L	05/11/04	0.024			05/26/04	0.056
Nitrogen, Nitrite	mg/L	05/11/04	0.0083			05/26/04	0.011
Bromide	mg/L	05/11/04	0.038	01/06/03	0.090	05/26/04	0.031
Nitrogen, Nitrate	mg/L	05/11/04	0.0073			05/26/04	0.011
Orthophosphate (as P)	mg/L	05/11/04	0.028			05/26/04	0.045
Sulfate	mg/L	05/11/04	0.054			05/26/04	0.059

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF4GW103	Batch#:	97620
Lab ID:	176662-001	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
370	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF4GW104	Batch#:	97620
Lab ID:	176662-002	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
1,210	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF4GW105	Batch#:	97620
Lab ID:	176662-003	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
760	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF4GW106	Batch#:	97620
Lab ID:	176662-004	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
900	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF5GW102	Batch#:	97620
Lab ID:	176662-005	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
640	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF5GW103	Batch#:	97620
Lab ID:	176662-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
730	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF5GW104	Batch#:	97620
Lab ID:	176662-007	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
790	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF10GW100	Batch#:	97620
Lab ID:	176662-008	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
1,220	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	LF10SP01	Batch#:	97620
Lab ID:	176662-009	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
430	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276849	Batch#:	97620
Matrix:	Water	Analyzed:	12/17/04

Result	RL
ND	10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	97620
Field ID:	ZZZZZZZZZZ	Sampled:	12/16/04
MSS Lab ID:	176721-001	Received:	12/17/04
Matrix:	Water	Analyzed:	12/17/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276850		100.0	108.0		108	79-120			1.000
BSD	QC276851		100.0	112.0		112	79-120	4	20	1.000
SDUP	QC276852	18,560		18,760	100			1	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis:	**Total Dissolved Solids**	Analysis Date:	**17-Dec-04**
Method:	**EPA160.1** / SMWW 2540c	Batch #:	**97620**
Matrix:	Water	Analyst:	RS
SOP#:	tds_rv 7.doc		

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	45.3177	45.3177	0.0000	ND	10					
BS	50	1	50.5453	50.5507	0.0054	108.0	10	1,000	5	100	**108**	
BSD	50	1	45.8207	45.8263	0.0056	112.0	10	1,000	5	100	**112**	**3.64**
176721-001	5	10	49.4598	49.5526	0.0928	18,560.0	100					
SDUP	5	10	50.6351	50.7289	0.0938	18,760.0	100					**1.07**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 120
MS/ MSD	20	20 - 195

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
176662-001	50	1	49.1820	49.2006	0.0186	372.0	10
176662-002	50	1	50.5946	50.6552	0.0606	1,212.0	10
176662-003	50	1	52.1539	52.1917	0.0378	756.0	10
176662-004	50	1	51.2224	51.2674	0.0450	900.0	10
176662-005	50	1	49.3505	49.3826	0.0321	642.0	10
176662-006	50	1	47.1497	47.1864	0.0367	734.0	10
176662-007	50	1	49.7680	49.8074	0.0394	788.0	10
176662-008	50	1	47.0151	47.0761	0.0610	1,220.0	10
176662-009	50	1	44.1827	44.2041	0.0214	428.0	10
176662-010	50	1	49.0250	49.1392	0.1142	2,284.0	10
176704-001	40	1.25	52.6758	52.7687	0.0929	2,322.5	13
176704-002	40	1.25	49.5948	49.6822	0.0874	2,185.0	13
176704-003	40	1.25	51.4119	51.4839	0.0720	1,800.0	13
176704-004	40	1.25	49.3327	49.4207	0.0880	2,200.0	13
176704-005	40	1.25	49.9013	49.9779	0.0766	1,915.0	13
176704-006	40	1.25	49.0822	49.1748	0.0926	2,315.0	13
176719-001	15	3.333	47.8145	47.9483	0.1338	8,920.0	33
176719-002	26	1.923	47.3937	47.4437	0.0500	1,923.1	19
176719-003	5	10	49.6836	49.7568	0.0732	14,640.0	100

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: _____

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 97620

Prep Date: 12-17-04
Prep Time: 15:30

Benchbook#: **BK2018**
Page: **28**

Filter Mfg/ Lot#: D1377555
Spike WS#: 0440S2055

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	12-17-04	12-19-04	12-19-04	12-19-04		
Time:	17:50	13:10	16:50	17:50		
Temp (C):	90°C	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	8	45.3177	45.3177	45.3174	
	BS		50	2	50.5453	50.5507	50.5509	
	BSD	26,400 RS12-17-04	50	7	45.8207	45.8263	45.8262	
	176721-001 E							
	~~176649-001 B~~	~~25,000~~	5	CT	49.4598	49.5526	49.5524	
	RS12-17-04	RS12-17-04						
5	~~SDUP -001 E~~	~~32,000~~	5	L	50.6351	50.7289	50.7290	
	176662-001 E	1380	50	LK	49.1820	49.2006	49.2008	
	-002	1060	50	SM	50.5946	50.6552	50.6550	
	-003	1159	50	E	52.1539	52.1917	52.1915	
	-004	1304	50	b	51.2224	51.2674	51.2670	
10	-005	1158	50	MM	49.3505	49.3826	49.3824	
	-006	1194	50	K	47.1497	47.1864	47.1860	
	-007	1307	50	n	49.7680	49.8074	49.8070	
	-008	1614	50	6	47.0151	47.0761	47.0763	
	-009 E	695	50	⊙	44.1827	44.2041	44.2040	
15	-010 E	1350	50	RO	49.0250	49.1392	49.1390	
	176704-001 E	3,650	40	XX	52.6758	52.7687	52.7690	
	-002	3,300	40	A	49.5948	49.6822	49.6824	
	-003	2,950	40	K	51.4119	51.4839	51.4840	
	-004	2,870	40	R	49.3327	49.4207	49.4206	
20	-005	2,890	40	1	49.9013	49.9779	49.9779	
	-006	3,610	40	AY	49.0822	49.1748	49.1749	
	176719-001	12,160	15 RS12-17-04	HI	47.8145	47.9483	47.9480	
	-002	3,090	~~40~~ 26	0	47.3937	47.4437	47.4436	
	-003	20,000	5	4	49.6836	49.7568	47.7564	
							RS12-19-04	

* Constant weight must be within 0.0005 from previous reading.

RShiffa 12-17-04
Analyst / Date

DLW 12-20-04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97620
Date Started: 17-DEC-2004
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
176662-001			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-002			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-003			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-004			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-005			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-006			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-007			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-008			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-009			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-010			Treadwell & Rollo	Water	TDS	28-DEC-2004
176704-001			URS Corporation	Water	TDS	29-DEC-2004
176704-002			URS Corporation	Water	TDS	29-DEC-2004
176704-003			URS Corporation	Water	TDS	29-DEC-2004
176704-004			URS Corporation	Water	TDS	29-DEC-2004
176704-005			URS Corporation	Water	TDS	29-DEC-2004
176704-006			URS Corporation	Water	TDS	29-DEC-2004
176719-001			Questa Engineering	Water	TDS	21-DEC-2004
176719-002			Questa Engineering	Water	TDS	21-DEC-2004
176719-003			Questa Engineering	Water	TDS	21-DEC-2004
176721-001			Engineering/Remedi	Water	TDS	20-DEC-2004
QC276849	MB			Water	TDS	
QC276850	BS			Water	TDS	
QC276851	BSD			Water	TDS	
QC276852	SDUP	of 176721-001		Water	TDS	

Volatile Organic Compounds

AMENDED

INITIAL CALIBRATION REPORT
- Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	jkn12	494472916012	0.5/1PPB	23-NOV-2004 20:50	04SS408 (500000X), 04WS2168A (500000X), 04WS2204A (1000000X), 04WS2096C (5000X)
2	jkn13	494472916013	5PPB	23-NOV-2004 21:23	04SS408 (100000X), 04WS2168A (50000X), 04WS2204A (200000X), 04WS2096C (5000X)
3	jkn14	494472916014	10PPB	23-NOV-2004 21:57	04SS408 (50000X), 04WS2168A (25000X), 04WS2204A (100000X), 04WS2096C (5000X)
4	jkn15	494472916015	20PPB	23-NOV-2004 22:30	04SS408 (25000X), 04WS2168A (12500X), 04WS2204A (50000X), 04WS2096C (5000X)
5	jkn16	494472916016	50PPB	23-NOV-2004 23:04	04SS408 (10000X), 04WS2168A (5000X), 04WS2204A (20000X), 04WS2096C (5000X)
6	jkn17	494472916017	75PPB	23-NOV-2004 23:38	04SS408 (6667X), 04WS2168A (3333X), 04WS2204A (13333X), 04WS2096C (5000X)
7	jkn18	494472916018	100PPB	24-NOV-2004 00:11	04SS408 (5000X), 04WS2168A (2500X), 04WS2204A (10000X), 04WS2096C (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.2546m	0.2616	0.2885	0.2906	0.3328	0.3024	0.3100	AVRG	R		3.430746		ug/L	0.2915	9	0.0500	0.99	15	
Chloromethane	0.4805m	0.4619	0.4573	0.4466	0.4639	0.4307	0.4230	AVRG	R		2.212463		ug/L	0.4520	4	0.1000	0.99	15	
Vinyl Chloride	0.3805m	0.3833	0.3975	0.3862	0.4166	0.3859	0.3871	AVRG	R		2.557536		ug/L	0.3910	3	0.0500	0.99	15	
Bromomethane	0.1611m	0.2005	0.2251	0.2310	0.2518	0.2462	0.2659	QUAD	R	0.338885	4.347281	-0.02182	ug/L	0.2260	0.999	0.0500	0.99	15	
Chloroethane	0.2290m	0.2325m	0.2325	0.2233	0.2358	0.2250	0.2267	AVRG	R		4.362159		ug/L	0.2292	2	0.0500	0.99	15	
Trichlorofluoromethane	0.3104	0.3143	0.3338	0.3136	0.3631	0.3374	0.3446	AVRG	R		3.020849		ug/L	0.3310	6	0.0500	0.99	15	
Acetone		0.1020	0.1026	0.1003	0.0976	0.0878	0.0914	AVRG	R		10.31533		ug/L	0.0969	6	0.0500	0.99	15	
Freon 113	0.1840	0.1584	0.1904	0.2140	0.2188	0.2154	0.2154	AVRG	R		5.012672		ug/L	0.1995	11	0.0500	0.99	15	
1,1-Dichloroethene	0.1870	0.1885	0.1942	0.2181	0.2158	0.2165	0.2180	AVRG	R		4.867294		ug/L	0.2055	7	0.0500	0.99	15	
Methylene Chloride		0.2947	0.2840	0.2864	0.2819	0.2729	0.2825	AVRG	R		3.524087		ug/L	0.2838	2	0.0500	0.99	15	
Carbon Disulfide	0.9196	0.7675	0.8000	0.8450	0.8464	0.8232	0.8207	AVRG	R		1.202253		ug/L	0.8318	6	0.0500	0.99	15	
MTBE	0.7204	0.6792	0.7086	0.7227	0.7270	0.6902	0.7094	AVRG	R		1.412019		ug/L	0.7082	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.2794	0.2483	0.2456	0.2487	0.2525	0.2503	0.2539	AVRG	R		3.935293		ug/L	0.2541	5	0.0500	0.99	15	
Vinyl Acetate	0.8622	0.7309	0.7201m	0.7677	0.7801m	0.7122m	0.7158	AVRG	R		1.323535		ug/L	0.7556	7	0.0500	0.99	15	
1,1-Dichloroethane	0.4901	0.4813	0.4741	0.4654	0.4647	0.4530	0.4576	AVRG	R		2.130167		ug/L	0.4694	3	0.1000	0.99	15	
2-Butanone		0.1404	0.1601	0.1605	0.1612	0.1531	0.1610	AVRG	R		6.408064		ug/L	0.1561	5	0.0500	0.99	15	
2,2-Dichloropropane	0.2837	0.2796	0.2794	0.2985	0.2978	0.2918	0.2929	AVRG	R		3.459219		ug/L	0.2891	3	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.2915	0.2853	0.2720	0.2787	0.2794	0.2751	0.2778	AVRG	R		3.571966		ug/L	0.2800	2	0.0500	0.99	15	

Flags used: m=manual integration for ~~inc~~ int. by Target
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL - good
ICV - 2Clve ↓ + ACE limit (FIZ↓, ClMet↓)

11/29/04

11/29/04

INITIAL CALIBRATION REPORT
- Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.4786	0.4345	0.4282	0.4273	0.4271	0.4207	0.4178	AVRG	R		2.307155		ug/L	0.4334	5	0.0500	0.99	15	
Bromochloromethane	0.1136	0.1425	0.1422	0.1445	0.1502	0.1461	0.1498	AVRG	R		7.078632		ug/L	0.1413	9	0.0500	0.99	15	
1,1,1-Trichloroethane	0.2762	0.2834	0.2988	0.3147	0.3147	0.3123	0.3143	AVRG	R		3.310835		ug/L	0.3020	5	0.0500	0.99	15	
1,1-Dichloropropene	0.2095m	0.1949	0.2069	0.2237	0.2231	0.2221	0.2217	AVRG	R		4.660902		ug/L	0.2146	5	0.0500	0.99	15	
Carbon Tetrachloride	0.1393m	0.1369	0.1483	0.1653	0.1693	0.1680	0.1680	AVRG	R		6.392457		ug/L	0.1564	9	0.0500	0.99	15	
1,2-Dichloroethane	0.2216	0.2171	0.2131	0.2109	0.2155	0.2095	0.2118	AVRG	R		4.667915		ug/L	0.2142	2	0.0500	0.99	15	
Benzene	0.7017	0.6507	0.6410	0.6590	0.6490	0.6380	0.6346	AVRG	R		1.530380		ug/L	0.6534	4	0.0500	0.99	15	
Trichloroethene	0.1611	0.1604	0.1610	0.1645	0.1674	0.1641	0.1671	AVRG	R		6.110462		ug/L	0.1637	2	0.0500	0.99	15	
1,2-Dichloropropane	0.2060	0.2037	0.1954	0.2002	0.2021	0.1951	0.2007	AVRG	R		4.988366		ug/L	0.2005	2	0.0500	0.99	15	
Bromodichloromethane	0.1965	0.2067	0.2041	0.2087	0.2173	0.2115	0.2160	AVRG	R		4.791772		ug/L	0.2087	3	0.0500	0.99	15	
Dibromomethane	0.1317	0.1270	0.1320	0.1339	0.1374	0.1363	0.1369	AVRG	R		7.486169		ug/L	0.1336	3	0.0500	0.99	15	
2-Chloroethylvinylether	0.1092	0.1215	0.1352	0.1365	0.1449	0.1338	0.1397	AVRG	R		7.602036		ug/L	0.1315	9	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.2157	0.2453	0.2594	0.2755	0.2414	0.2572	AVRG	R		4.014663		ug/L	0.2491	8	0.0500	0.99	15	
Tetramethyl THF	0.4347	0.3669	0.3926	0.3880	0.3900	0.3735	0.3826	AVRG	R		2.565774		ug/L	0.3897	6	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.2865	0.2785	0.2745	0.2789	0.2813	0.2759	0.2792	AVRG	R		3.580987		ug/L	0.2793	1	0.0500	0.99	15	
Toluene	0.3918	0.3677	0.3619	0.3676	0.3711	0.3649	0.3678	AVRG	R		2.699882		ug/L	0.3704	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.2683	0.2426	0.2427	0.2470	0.2537	0.2456	0.2504	AVRG	R		3.999387		ug/L	0.2500	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.0748	0.0958	0.0899	0.0914	0.0933	0.0905	0.0941	AVRG	R		11.11477		ug/L	0.0900	8	0.0500	0.99	15	
2-Hexanone	0.1893	0.1586	0.1755	0.1825	0.1877	0.1695	0.1796	AVRG	R		5.632904		ug/L	0.1775	6	0.0500	0.99	15	
1,3-Dichloropropane	0.3168	0.3283	0.3370	0.3321	0.3338	0.3239	0.3272	AVRG	R		3.044671		ug/L	0.3284	2	0.0500	0.99	15	
Tetrachloroethene	0.1960	0.1648	0.1705	0.1804	0.1837	0.1873	0.1879	AVRG	R		5.509715		ug/L	0.1815	6	0.0500	0.99	15	
Dibromochloromethane	0.1763	0.2008	0.2056	0.2055	0.2148	0.2126	0.2186	AVRG	R		4.880596		ug/L	0.2049	7	0.0500	0.99	15	
1,2-Dibromoethane	0.1596	0.1733	0.1806	0.1829	0.1873	0.1808	0.1866	AVRG	R		5.595170		ug/L	0.1787	5	0.0500	0.99	15	
Chlorobenzene	0.5426	0.5092	0.5109	0.5029	0.5068	0.4935	0.4917	AVRG	R		1.967616		ug/L	0.5082	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.1673	0.1645	0.1629	0.1688	0.1762	0.1742	0.1784	AVRG	R		5.870434		ug/L	0.1703	4	0.0500	0.99	15	
Ethylbenzene	0.8862	0.8186	0.8451	0.8488	0.8430	0.8153	0.8051	AVRG	R		1.194135		ug/L	0.8374	3	0.0500	0.99	15	
m,p-Xylenes	0.2953	0.2841	0.2911	0.2964	0.2998	0.2963	0.2965	AVRG	R		3.399005		ug/L	0.2942	2	0.0500	0.99	15	
o-Xylene	0.2687	0.2745	0.2849	0.2849	0.2915	0.2894	0.2909	AVRG	R		3.527078		ug/L	0.2835	3	0.0500	0.99	15	
Styrene	0.3918	0.4744	0.4753	0.4914	0.5020	0.4940	0.4947	AVRG	R		2.106144		ug/L	0.4748	8	0.0500	0.99	15	
Bromoform	0.1592	0.1323	0.1430	0.1503	0.1566	0.1532	0.1595	AVRG	R		6.641220		ug/L	0.1506	7	0.1000	0.99	15	
Isopropylbenzene	1.5856	1.5487	1.5910	1.6567	1.6017	1.5289	1.5095	AVRG	R		0.635089		ug/L	1.5746	3	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.6504	0.6029	0.6492	0.6451	0.6555	0.6127	0.6210	AVRG	R		1.577664		ug/L	0.6338	3	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1660	0.1289	0.1525	0.1483	0.1505	0.1423	0.1470	AVRG	R		6.759519		ug/L	0.1479	8	0.0500	0.99	15	
Propylbenzene	1.8517	1.8598	1.9175	1.9734	1.9262	1.8369	1.7842	AVRG	R		0.532334		ug/L	1.8785	3	0.0500	0.99	15	
Bromobenzene	0.4239	0.4481	0.4679	0.4700	0.4749	0.4676	0.4734	AVRG	R		2.170001		ug/L	0.4608	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	0.9821	1.0261	1.1088	1.0958	1.1209	1.0721	1.0812	AVRG	R		0.934961		ug/L	1.0696	5	0.0500	0.99	15	
2-Chlorotoluene	1.2481	1.3178	1.3055	1.3163	1.3121	1.2665	1.2368	AVRG	R		0.777498		ug/L	1.2862	3	0.0500	0.99	15	
4-Chlorotoluene	1.1250	1.1895	1.1929	1.1707	1.1905	1.1444	1.1356	AVRG	R		0.859043		ug/L	1.1641	2	0.0500	0.99	15	
tert-Butylbenzene	0.9378	0.9287	0.9414	0.9820	1.0105	0.9453	0.9579	AVRG	R		1.044226		ug/L	0.9576	3	0.0500	0.99	15	
1,2,4-Trimethylbenzene	0.8834	1.0108	1.0210	1.0401	1.0275	0.9969	1.0200	AVRG	R		1.000049		ug/L	1.0000	5	0.0500	0.99	15	
sec-Butylbenzene	1.3186	1.3284	1.4775	1.5585	1.5158	1.4636	1.4389	AVRG	R		0.692968		ug/L	1.4431	6	0.0500	0.99	15	
para-Isopropyl Toluene	0.9686	0.9476	1.0178	1.0559	1.0606	1.0335	1.0434	AVRG	R		0.982124		ug/L	1.0182	4	0.0500	0.99	15	
1,3-Dichlorobenzene	0.6691	0.7410	0.7291	0.7346	0.7400	0.7281	0.7226	AVRG	R		1.382156		ug/L	0.7235	3	0.0500	0.99	15	
1,4-Dichlorobenzene	0.7893	0.7557	0.7556	0.7611	0.7502	0.7464	0.7398	AVRG	R		1.321227		ug/L	0.7569	2	0.0500	0.99	15	
n-Butylbenzene	0.9455	0.8885	0.9722	1.0121	0.9935	0.9618	0.9746	AVRG	R		1.037328		ug/L	0.9640	4	0.0500	0.99	15	
1,2-Dichlorobenzene	0.7242	0.6982	0.7061	0.7116	0.7082	0.6938	0.6970	AVRG	R		1.417304		ug/L	0.7056	1	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1140	0.0790	0.0917	0.0969	0.0983	0.0919	0.0969	AVRG	R		10.46819		ug/L	0.0955	11	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.3021	0.2427	0.2596	0.2668	0.2632	0.2574	0.2762	AVRG	R		3.747484		ug/L	0.2668	7	0.0500	0.99	15	
Hexachlorobutadiene	0.1381	0.1415	0.1562	0.1700	0.1648	0.1638	0.1651	AVRG	R		6.366377		ug/L	0.1571	8	0.0500	0.99	15	
Naphthalene	0.5754	0.5009	0.5892	0.6103	0.6260	0.5850	0.6662	AVRG	R		1.685522		ug/L	0.5933	9	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.2299	0.2159	0.2336	0.2399	0.2473	0.2340	0.2571	AVRG	R		4.222816		ug/L	0.2368	6	0.0500	0.99	15	
tert-Butyl Alcohol (TBA)	0.0178m	0.0188	0.0224	0.0233	0.0239	0.0226	0.0249	AVRG	R		45.54697		ug/L	0.0220	12	0.0050	0.99	15	
Isopropyl Ether (DIPE)	1.0578	1.0338	1.0400	1.0355	1.0163	0.9871	0.9888	AVRG	R		0.977752		ug/L	1.0228	3	0.0500	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	0.8128	0.8142	0.8268	0.8363	0.8390	0.8188	0.8248	AVRG	R		1.212616		ug/L	0.8247	1	0.0500	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.4530	0.4708	0.4958	0.5000	0.5085	0.4903	0.5006	AVRG	R		2.047469		ug/L	0.4884	4	0.0500	0.99	15	
Ethanol	0.0027	0.0033m	0.0039	0.0039	0.0038	0.0039	0.0042	AVRG	R		272.8818		ug/L	0.0037	14	5.0E-4	0.99	15	
Isopropanol		0.0145	0.0174	0.0194	0.0177	0.0167	0.0183	AVRG	R		57.68296		ug/L	0.0173	10	0.0050	0.99	15	
Tetrahydrofuran	0.1070	0.0813	0.0911	0.0912	0.0917	0.0826	0.0849	AVRG	R		11.11701		ug/L	0.0900	10	0.0050	0.99	15	
Dibromofluoromethane	0.5824	0.5865	0.5855	0.5774	0.5835	0.5807	0.5817	AVRG	R		1.716681		ug/L	0.5825	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.3675	0.3644	0.3644	0.3656	0.3725	0.3648	0.3682	AVRG	R		2.726473		ug/L	0.3668	1	0.0500	0.99	15	
Trifluorotoluene	0.1972	0.1890	0.2056	0.2265	0.2355	0.2344	0.2366	AVRG	R		4.591005		ug/L	0.2178	9	0.0500	0.99	15	
Toluene-d8	0.9988	0.9981	0.9864	0.9997	1.0018	0.9944	1.0143	AVRG	R		1.000954		ug/L	0.9990	1	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Bromofluorobenzene	1.1976	1.2115	1.1741	1.1826	1.1706	1.1702	1.1646	AVRG	R		0.846323		ug/L	1.1816	1	0.0500	0.99	15	

471

Flags used: m=manual integration
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Lab Smp Id:
Inj Date : 23-NOV-2004 20:50
Operator : VOC
Smp Info : ICAL,04SS408,0.002/1000,04WS2168A,0.002/1000
Misc Info : 04WS2204A,0.001/1000, 0.5/1PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Cal Date : 23-NOV-2004 20:50
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 22-SEP-2004 10:51
Inst ID: MSVOA10.i

Quant Type: ISTD
Cal File: JKN12.D
Calibration Sample, Level: 7

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.812	4.808	(0.441)	7552	1.00000	0.8734(M)
2 Chloromethane	50	5.305	5.292	(0.486)	14253	1.00000	1.0631(M)
3 Vinyl Chloride	62	5.453	5.459	(0.500)	11286	1.00000	0.9731(M)
4 Bromomethane	94	6.144	6.150	(0.563)	4778	1.00000	1.0386(M)
5 Chloroethane	64	6.321	6.327	(0.579)	6791	1.00000	0.9987(M)
6 Trichlorofluoromethane	101	6.775	6.771	(0.621)	9208	1.00000	0.9377
7 Ethanol	45	6.943	6.929	(0.636)	3982	50.0000	36.6341
8 Freon 113	101	7.613	7.609	(0.697)	2729	0.50000	0.4611
9 Acetone	43	7.643	7.629	(0.700)	4907	0.50000	1.7065
10 1,1-Dichloroethene	96	7.633	7.639	(0.699)	2774	0.50000	0.4552
11 Isopropanol	45	7.751	7.737	(0.710)	3031	5.00000	5.8944
12 Carbon Disulfide	76	8.086	8.102	(0.741)	13639	0.50000	0.5528
13 Methylene Chloride	84	8.363	8.359	(0.766)	5981	0.50000	0.7106
14 tert-Butyl Alcohol (TBA)	59	8.372	8.359	(0.767)	2645	5.00000	4.0615(M)
15 MTBE	73	8.747	8.753	(0.801)	10684	0.50000	0.5086
16 trans-1,2-Dichloroethene	96	8.787	8.793	(0.805)	4144	0.50000	0.5498
17 Vinyl Acetate	43	9.369	9.374	(0.858)	12787	0.50000	0.5705
18 1,1-Dichloroethane	63	9.408	9.414	(0.862)	7268	0.50000	0.5219
19 Isopropyl Ether (DIPE)	45	9.418	9.434	(0.863)	15688	0.50000	0.5171
20 Ethyl tert-Butyl Ether (ETBE)	59	9.960	9.966	(0.912)	12055	0.50000	0.4928
21 2-Butanone	43	10.207	10.193	(0.935)	2845	0.50000	0.6146
22 cis-1,2-Dichloroethene	96	10.256	10.262	(0.939)	4323	0.50000	0.5205

11/24/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.286	10.301	(0.942)	4207	0.50000	0.4906
24 Bromochloromethane	128	10.621	10.627	(0.973)	1685	0.50000	0.4021
25 Chloroform	83	10.690	10.696	(0.979)	7098	0.50000	0.5521
26 Tetrahydrofuran	42	10.710	10.706	(0.981)	15868	5.00000	5.9473
* 27 Pentafluorobenzene	168	10.917	10.923	(1.000)	1483065	50.0000	
$ 28 Dibromofluoromethane	113	10.937	10.933	(1.002)	863740	50.0000	49.9899
29 1,1,1-Trichloroethane	97	11.065	11.071	(1.014)	4096	0.50000	0.4572
30 1,1-Dichloropropene	75	11.292	11.307	(0.934)	4861	0.50000	0.4881(M)
31 Carbon Tetrachloride	117	11.351	11.347	(0.939)	3233	0.50000	0.4453(M)
$ 32 1,2-Dichloroethane-d4	65	11.479	11.475	(0.949)	852833	50.0000	50.1033
33 1,2-Dichloroethane	62	11.597	11.593	(0.959)	5142	0.50000	0.5171
34 Benzene	78	11.637	11.643	(0.962)	16283	0.50000	0.5369
35 Methyl tert-Amyl Ether (TAME)	73	11.686	11.692	(0.967)	10511	0.50000	0.4637
* 36 1,4-Difluorobenzene	114	12.090	12.096	(1.000)	2320428	50.0000	
37 Trichloroethene	95	12.544	12.540	(1.038)	3738	0.50000	0.4921
38 1,2-Dichloropropane	63	12.860	12.856	(1.064)	4779	0.50000	0.5136
$ 39 Trifluorotoluene	146	12.840	12.846	(1.062)	4576	0.50000	0.4526
40 Dibromomethane	93	13.027	13.033	(1.077)	3055	0.50000	0.4928
41 Bromodichloromethane	83	13.195	13.191	(1.091)	4560	0.50000	0.4708
42 2-Chloroethylvinylether	63	13.510	13.516	(1.117)	5070	1.00000	0.8305
43 cis-1,3-Dichloropropene	75	13.796	13.793	(1.141)	6647	0.50000	0.5128
44 Tetramethyl THF	43	13.875	13.871	(1.148)	10086	0.50000	0.5576
45 4-Methyl-2-Pentanone	43	13.925	13.921	(1.152)	5294	0.50000	0.4579
$ 46 Toluene-d8	98	14.201	14.207	(1.175)	2317558	50.0000	49.9857
47 Toluene	92	14.290	14.295	(1.182)	9091	0.50000	0.5288
48 trans-1,3-Dichloropropene	75	14.497	14.493	(1.199)	6226	0.50000	0.5365
49 1,1,2-Trichloroethane	85	14.753	14.759	(1.220)	1735	0.50000	0.4155
50 1,3-Dichloropropane	76	14.990	14.986	(0.934)	6076	0.50000	0.4822
51 2-Hexanone	43	14.990	14.996	(0.934)	3631	0.50000	0.5332
52 Tetrachloroethene	166	15.039	15.035	(0.937)	3759	0.50000	0.5399
53 Dibromochloromethane	129	15.305	15.311	(0.954)	3382	0.50000	0.4303
54 1,2-Dibromoethane	107	15.493	15.499	(1.281)	3703	0.50000	0.4464
* 55 Chlorobenzene-d5	117	16.045	16.051	(1.000)	1917952	50.0000	
56 Chlorobenzene	112	16.084	16.080	(1.002)	10407	0.50000	0.5338
57 1,1,1,2-Tetrachloroethane	131	16.144	16.149	(1.006)	3209	0.50000	0.4911
58 Ethylbenzene	91	16.173	16.169	(1.008)	16996	0.50000	0.5290
59 m,p-Xylenes	106	16.301	16.297	(1.016)	11328	1.00000	1.0037
60 o-Xylene	106	16.785	16.781	(1.046)	5153	0.50000	0.4738
61 Styrene	104	16.785	16.791	(1.046)	7515	0.50000	0.4126
62 Bromoform	173	17.061	17.057	(1.063)	3053	0.50000	0.5285
63 Isopropylbenzene	105	17.189	17.185	(0.917)	13227	0.50000	0.5034
64 Cyclohexanone_	55	17.327	17.323	(0.924)	3158	5.00000	5.1408
$ 65 Bromofluorobenzene	95	17.386	17.382	(0.927)	999037	50.0000	50.6776
66 1,1,2,2-Tetrachloroethane	83	17.485	17.481	(0.933)	5426	0.50000	0.5130
67 1,2,3-Trichloropropane	110	17.564	17.560	(0.937)	1385	0.50000	0.5611
68 Bromobenzene	156	17.613	17.609	(0.940)	3536	0.50000	0.4599
69 Propylbenzene	91	17.643	17.648	(0.941)	15447	0.50000	0.4928
70 2-Chlorotoluene	91	17.800	17.796	(0.950)	10412	0.50000	0.4852
71 1,3,5-Trimethylbenzene	105	17.820	17.816	(0.951)	8193	0.50000	0.4591
72 4-Chlorotoluene	91	17.919	17.915	(0.956)	9385	0.50000	0.4832
73 tert-Butylbenzene	119	18.234	18.230	(0.973)	7823	0.50000	0.4896
74 1,2,4-Trimethylbenzene	105	18.274	18.270	(0.975)	7369	0.50000	0.4417
75 sec-Butylbenzene	105	18.481	18.477	(0.986)	11000	0.50000	0.4568
76 para-Isopropyl Toluene	119	18.619	18.615	(0.993)	8080	0.50000	0.4756

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Report Date: 24-Nov-2004 16:00

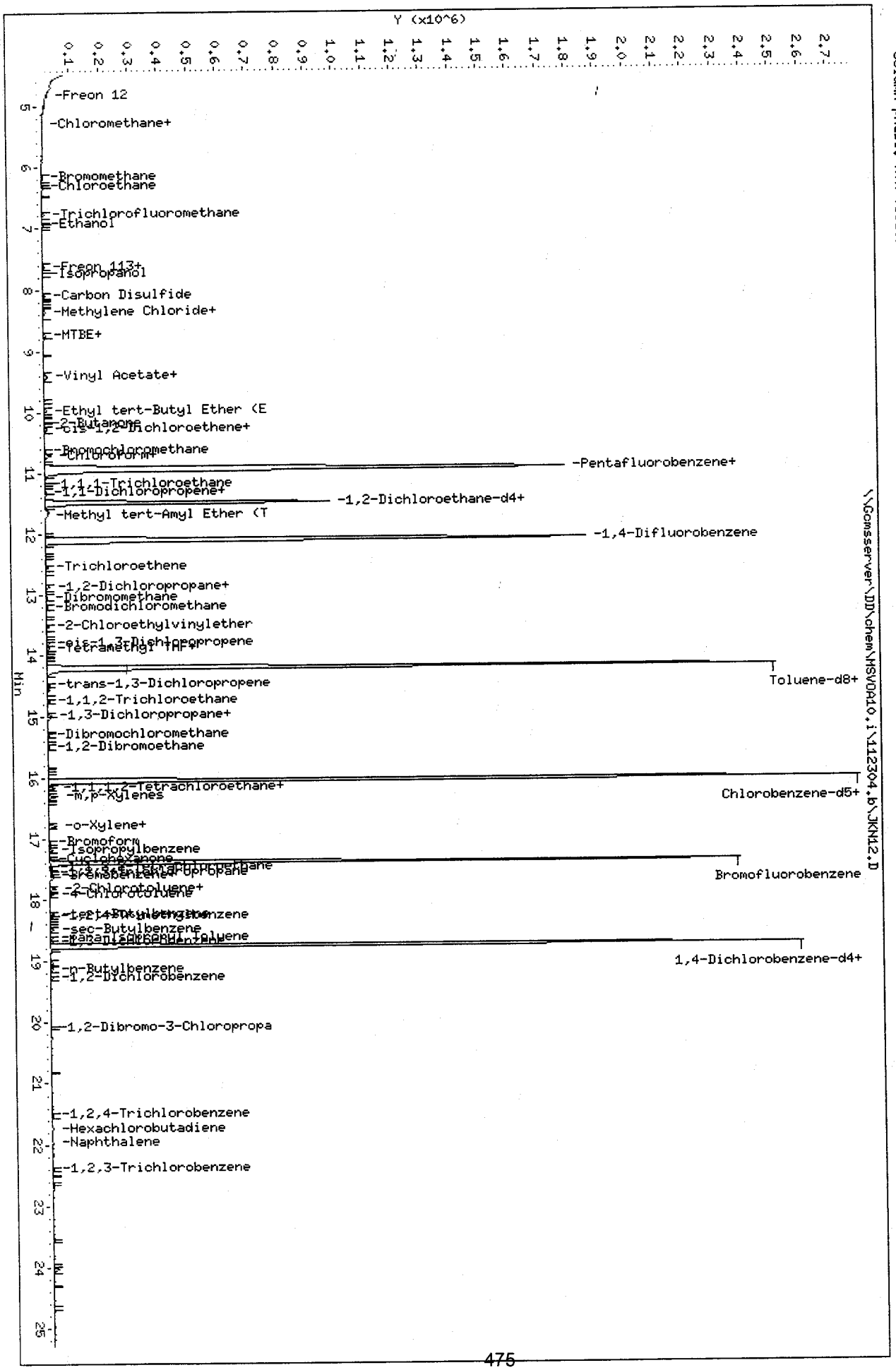
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.688	18.684	(0.997)	5582	0.50000	0.4624
* 78 1,4-Dichlorobenzene-d4	152	18.747	18.753	(1.000)	834202	50.0000	
79 1,4-Dichlorobenzene	146	18.777	18.783	(1.002)	6584	0.50000	0.5213
80 n-Butylbenzene	91	19.122	19.118	(1.020)	7887	0.50000	0.4903
81 1,2-Dichlorobenzene	146	19.260	19.266	(1.027)	6041	0.50000	0.5131
82 1,2-Dibromo-3-Chloropropane	75	20.246	20.252	(1.080)	951	0.50000	0.5966
83 1,2,4-Trichlorobenzene	180	21.518	21.514	(1.148)	2520	0.50000	0.5660
84 Hexachlorobutadiene	225	21.735	21.731	(1.159)	1152	0.50000	0.4395
85 Naphthalene	128	21.972	21.968	(1.172)	4800	0.50000	0.4849
86 1,2,3-Trichlorobenzene	180	22.386	22.382	(1.194)	1918	0.50000	0.4854

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Date : 23-NOV-2004 20:50
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.002/1000,04WS2168A,0.002/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 23-NOV-2004 21:23
MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC
Inst ID: MSVOA10.i
Smp Info : ICAL,04SS408,0.005/500,04WS2168A,0.01/500
Misc Info : 04WS2204A,0.0025/500, 5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Quant Type: ISTD
Cal Date : 23-NOV-2004 21:23
Cal File: JKN13.D
Als bottle: 13
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.808	(0.442)	39518	5.00000	4.4868
2 Chloromethane	50	5.296	5.292	(0.485)	69780	5.00000	5.1093
3 Vinyl Chloride	62	5.464	5.459	(0.500)	57902	5.00000	4.9009
4 Bromomethane	94	6.164	6.150	(0.565)	30296	5.00000	4.6757
5 Chloroethane	64	6.322	6.327	(0.579)	35123	5.00000	5.0705(M)
6 Trichlorofluoromethane	101	6.785	6.771	(0.622)	47484	5.00000	4.7472
7 Ethanol	45	6.933	6.929	(0.635)	49637	500.000	448.2732(M)
8 Freon 113	101	7.613	7.609	(0.697)	23936	5.00000	3.9708
9 Acetone	43	7.633	7.629	(0.699)	15405	5.00000	5.2590
10 1,1-Dichloroethene	96	7.643	7.639	(0.700)	28473	5.00000	4.5865
11 Isopropanol	45	7.752	7.737	(0.710)	21981	50.0000	41.9621
12 Carbon Disulfide	76	8.097	8.102	(0.742)	115959	5.00000	4.6138
13 Methylene Chloride	84	8.363	8.359	(0.766)	44529	5.00000	5.1934
14 tert-Butyl Alcohol (TBA)	59	8.373	8.359	(0.767)	28396	50.0000	42.8035
15 MTBE	73	8.748	8.753	(0.801)	102609	5.00000	4.7950
16 trans-1,2-Dichloroethene	96	8.797	8.793	(0.806)	37512	5.00000	4.8855
17 Vinyl Acetate	43	9.379	9.374	(0.859)	110421	5.00000	4.8367
18 1,1-Dichloroethane	63	9.418	9.414	(0.863)	72713	5.00000	5.1261
19 Isopropyl Ether (DIPE)	45	9.428	9.434	(0.864)	156194	5.00000	5.0542
20 Ethyl tert-Butyl Ether (ETBE)	59	9.961	9.966	(0.912)	123008	5.00000	4.9365
21 2-Butanone	43	10.197	10.193	(0.934)	21218	5.00000	4.4998
22 cis-1,2-Dichloroethene	96	10.266	10.262	(0.940)	43101	5.00000	5.0951

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.296	10.301	(0.943)	42236	5.00000	4.8353
24 Bromochloromethane	128	10.631	10.627	(0.974)	21527	5.00000	5.0430
25 Chloroform	83	10.700	10.696	(0.980)	65640	5.00000	5.0119
26 Tetrahydrofuran	42	10.710	10.706	(0.981)	122789	50.0000	45.1762
* 27 Pentafluorobenzene	168	10.917	10.923	(1.000)	1510801	50.0000	
$ 28 Dibromofluoromethane	113	10.937	10.933	(1.002)	886049	50.0000	50.3396
29 1,1,1-Trichloroethane	97	11.075	11.071	(1.014)	42813	5.00000	4.6911
30 1,1-Dichloropropene	75	11.302	11.307	(0.935)	46010	5.00000	4.5419
31 Carbon Tetrachloride	117	11.351	11.347	(0.939)	32308	5.00000	4.3741
$ 32 1,2-Dichloroethane-d4	65	11.479	11.475	(0.949)	860196	50.0000	49.6726
33 1,2-Dichloroethane	62	11.598	11.593	(0.959)	51261	5.00000	5.0679
34 Benzene	78	11.637	11.643	(0.962)	153626	5.00000	4.9794
35 Methyl tert-Amyl Ether (TAME)	73	11.696	11.692	(0.967)	111140	5.00000	4.8195
* 36 1,4-Difluorobenzene	114	12.091	12.096	(1.000)	2360759	50.0000	
37 Trichloroethene	95	12.535	12.540	(1.037)	37864	5.00000	4.9002
38 1,2-Dichloropropane	63	12.860	12.856	(1.064)	48090	5.00000	5.0807
$ 39 Trifluorotoluene	146	12.850	12.846	(1.063)	44614	5.00000	4.3380
40 Dibromomethane	93	13.028	13.033	(1.077)	29974	5.00000	4.7525
41 Bromodichloromethane	83	13.195	13.191	(1.091)	48793	5.00000	4.9519
42 2-Chloroethylvinylether	63	13.511	13.516	(1.117)	28688	5.00000	4.6190
43 cis-1,3-Dichloropropene	75	13.797	13.793	(1.141)	65754	5.00000	4.9870
44 Tetramethyl THF	43	13.876	13.871	(1.148)	86609	5.00000	4.7065
45 4-Methyl-2-Pentanone	43	13.925	13.921	(1.152)	50928	5.00000	4.3303
$ 46 Toluene-d8	98	14.201	14.207	(1.175)	2356178	50.0000	49.9505
47 Toluene	92	14.300	14.295	(1.183)	86799	5.00000	4.9633
48 trans-1,3-Dichloropropene	75	14.487	14.493	(1.198)	57261	5.00000	4.8503
49 1,1,2-Trichloroethane	85	14.753	14.759	(1.220)	22618	5.00000	5.3244
50 1,3-Dichloropropane	76	14.990	14.986	(0.934)	62801	5.00000	4.9979
51 2-Hexanone	43	15.000	14.996	(0.935)	30340	5.00000	4.4671
52 Tetrachloroethene	166	15.039	15.035	(0.937)	31520	5.00000	4.5393
53 Dibromochloromethane	129	15.306	15.311	(0.954)	38404	5.00000	4.8992
54 1,2-Dibromoethane	107	15.503	15.499	(1.282)	40903	5.00000	4.8471
* 55 Chlorobenzene-d5	117	16.045	16.051	(1.000)	1912877	50.0000	
56 Chlorobenzene	112	16.085	16.080	(1.002)	97400	5.00000	5.0093
57 1,1,1,2-Tetrachloroethane	131	16.154	16.149	(1.007)	31476	5.00000	4.8298
58 Ethylbenzene	91	16.174	16.169	(1.008)	156580	5.00000	4.8873
59 m,p-Xylenes	106	16.302	16.297	(1.016)	108679	10.0000	9.6556
60 o-Xylene	106	16.785	16.781	(1.046)	52503	5.00000	4.8404
61 Styrene	104	16.785	16.791	(1.046)	90755	5.00000	4.9962
62 Bromoform	173	17.051	17.057	(1.063)	25310	5.00000	4.3936
63 Isopropylbenzene	105	17.189	17.185	(0.917)	126913	5.00000	4.9179
64 Cyclohexanone_	55	17.327	17.323	(0.924)	31346	50.0000	51.9456
$ 65 Bromofluorobenzene	95	17.387	17.382	(0.927)	992756	50.0000	51.2646
66 1,1,2,2-Tetrachloroethane	83	17.475	17.481	(0.932)	49409	5.00000	4.7562
67 1,2,3-Trichloropropane	110	17.564	17.560	(0.937)	10562	5.00000	4.3561
68 Bromobenzene	156	17.613	17.609	(0.940)	36722	5.00000	4.8621
69 Propylbenzene	91	17.653	17.648	(0.942)	152403	5.00000	4.9501
70 2-Chlorotoluene	91	17.801	17.796	(0.950)	107992	5.00000	5.1230
71 1,3,5-Trimethylbenzene	105	17.820	17.816	(0.951)	84083	5.00000	4.7966
72 4-Chlorotoluene	91	17.919	17.915	(0.956)	97473	5.00000	5.1090
73 tert-Butylbenzene	119	18.225	18.230	(0.972)	76100	5.00000	4.8486
74 1,2,4-Trimethylbenzene	105	18.274	18.270	(0.975)	82829	5.00000	5.0540
75 sec-Butylbenzene	105	18.481	18.477	(0.986)	108860	5.00000	4.6027
76 para-Isopropyl Toluene	119	18.619	18.615	(0.993)	77654	5.00000	4.6533

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.688	18.684	(0.997)	60723	5.00000	5.1209
* 78 1,4-Dichlorobenzene-d4	152	18.747	18.753	(1.000)	819465	50.0000	
79 1,4-Dichlorobenzene	146	18.777	18.783	(1.002)	61931	5.00000	4.9925
80 n-Butylbenzene	91	19.122	19.118	(1.020)	72812	5.00000	4.6084
81 1,2-Dichlorobenzene	146	19.260	19.266	(1.027)	57211	5.00000	4.9474
82 1,2-Dibromo-3-Chloropropane	75	20.256	20.252	(1.080)	6474	5.00000	4.1350
83 1,2,4-Trichlorobenzene	180	21.519	21.514	(1.148)	19888	5.00000	4.5474
84 Hexachlorobutadiene	225	21.736	21.731	(1.159)	11593	5.00000	4.5032
85 Naphthalene	128	21.962	21.968	(1.171)	41047	5.00000	4.2213
86 1,2,3-Trichlorobenzene	180	22.386	22.382	(1.194)	17691	5.00000	4.5582

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSV0A10.i\112304.b\JKN13.D
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Client ID: DYNA P&T
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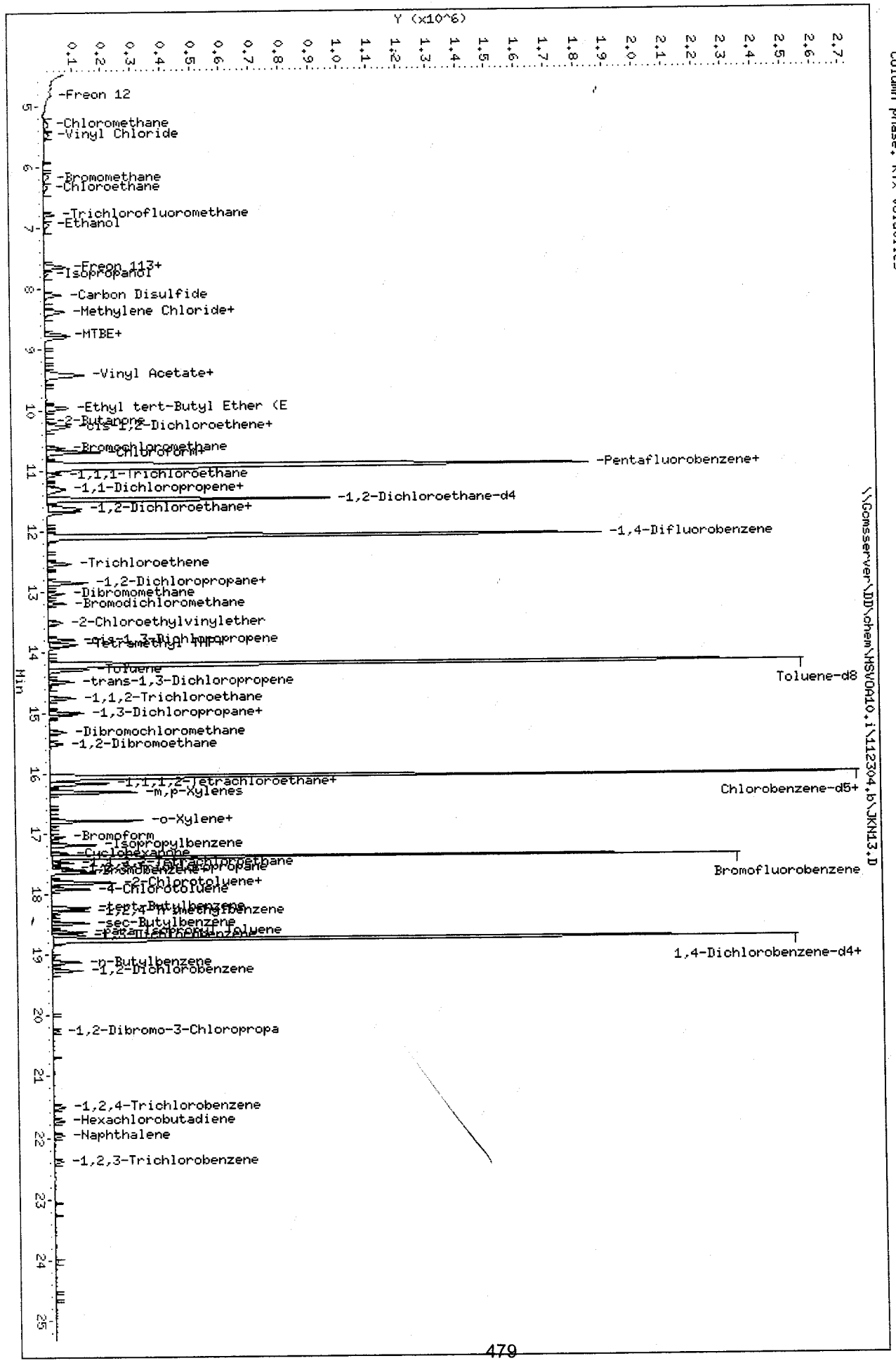
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSV0A10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 23-NOV-2004 21:57
MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC
Inst ID: MSVOA10.i
Smp Info : ICAL,04SS408,0.002/100,04WS2168A,0.004/100
Misc Info : 04WS2204A,0.001/100, 10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Quant Type: ISTD
Cal Date : 23-NOV-2004 21:57
Cal File: JKN14.D
Als bottle: 14
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.828	4.808	(0.442)	87227	10.0000	9.8974
2 Chloromethane	50	5.302	5.292	(0.486)	138266	10.0000	10.1174
3 Vinyl Chloride	62	5.450	5.459	(0.499)	120194	10.0000	10.1668
4 Bromomethane	94	6.140	6.150	(0.563)	68073	10.0000	10.0158
5 Chloroethane	64	6.317	6.327	(0.579)	70305	10.0000	10.1430
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	100926	10.0000	10.0835
7 Ethanol	45	6.929	6.929	(0.635)	116831	1000.00	1054.4216
8 Freon 113	101	7.609	7.609	(0.697)	57562	10.0000	9.5430
9 Acetone	43	7.629	7.629	(0.699)	31015	10.0000	10.5812
10 1,1-Dichloroethene	96	7.639	7.639	(0.700)	58730	10.0000	9.4542
11 Isopropanol	45	7.747	7.737	(0.710)	52665	100.000	100.4734
12 Carbon Disulfide	76	8.093	8.102	(0.742)	241881	10.0000	9.6178
13 Methylene Chloride	84	8.359	8.359	(0.766)	85884	10.0000	10.0101
14 tert-Butyl Alcohol (TBA)	59	8.359	8.359	(0.766)	67850	100.000	102.2094
15 MTBE	73	8.743	8.753	(0.801)	214254	10.0000	10.0057
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.806)	74260	10.0000	9.6652
17 Vinyl Acetate	43	9.375	9.374	(0.859)	217726	10.0000	9.5307(M)
18 1,1-Dichloroethane	63	9.414	9.414	(0.863)	143333	10.0000	10.0981
19 Isopropyl Ether (DIPE)	45	9.424	9.434	(0.864)	314442	10.0000	10.1683
20 Ethyl tert-Butyl Ether (ETBE)	59	9.956	9.966	(0.912)	249976	10.0000	10.0254
21 2-Butanone	43	10.193	10.193	(0.934)	48399	10.0000	10.2575
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	82244	10.0000	9.7161

b 6/24/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.292	10.301	(0.943)	84474	10.0000	9.6645
24 Bromochloromethane	128	10.627	10.627	(0.974)	43004	10.0000	10.0679
25 Chloroform	83	10.696	10.696	(0.980)	129460	10.0000	9.8785
26 Tetrahydrofuran	42	10.706	10.706	(0.981)	275573	100.000	101.3226
* 27 Pentafluorobenzene	168	10.913	10.923	(1.000)	1511779	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.002)	885114	50.0000	50.2539
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	90353	10.0000	9.8937
30 1,1-Dichloropropene	75	11.298	11.307	(0.935)	97634	10.0000	9.6447
31 Carbon Tetrachloride	117	11.347	11.347	(0.939)	69957	10.0000	9.4780
$ 32 1,2-Dichloroethane-d4	65	11.485	11.475	(0.950)	859570	50.0000	49.6709
33 1,2-Dichloroethane	62	11.593	11.593	(0.959)	100533	10.0000	9.9460
34 Benzene	78	11.633	11.643	(0.962)	302426	10.0000	9.8093
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	233927	10.0000	10.1512
* 36 1,4-Difluorobenzene	114	12.087	12.096	(1.000)	2359121	50.0000	
37 Trichloroethene	95	12.540	12.540	(1.038)	75945	10.0000	9.8354
38 1,2-Dichloropropane	63	12.856	12.856	(1.064)	92203	10.0000	9.7481
$ 39 Trifluorotoluene	146	12.846	12.846	(1.063)	97028	10.0000	9.4411
40 Dibromomethane	93	13.033	13.033	(1.078)	62267	10.0000	9.8795
41 Bromodichloromethane	83	13.191	13.191	(1.091)	96307	10.0000	9.7807
42 2-Chloroethylvinylether	63	13.517	13.516	(1.118)	63790	10.0000	10.2778
43 cis-1,3-Dichloropropene	75	13.793	13.793	(1.141)	129517	10.0000	9.8299
44 Tetramethyl THF	43	13.872	13.871	(1.148)	185225	10.0000	10.0725
45 4-Methyl-2-Pentanone	43	13.921	13.921	(1.152)	115721	10.0000	9.8464
$ 46 Toluene-d8	98	14.197	14.207	(1.175)	2326954	50.0000	49.3652
47 Toluene	92	14.296	14.295	(1.183)	170766	10.0000	9.7716
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.199)	114499	10.0000	9.7054
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.221)	42408	10.0000	9.9900
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	128408	10.0000	10.2605
51 2-Hexanone	43	14.996	14.996	(0.934)	66877	10.0000	9.8866
52 Tetrachloroethene	166	15.035	15.035	(0.937)	64971	10.0000	9.3947
53 Dibromochloromethane	129	15.311	15.311	(0.954)	78346	10.0000	10.0352
54 1,2-Dibromoethane	107	15.499	15.499	(1.282)	85219	10.0000	10.1057
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1905163	50.0000	
56 Chlorobenzene	112	16.081	16.080	(1.002)	194686	10.0000	10.0533
57 1,1,1,2-Tetrachloroethane	131	16.150	16.149	(1.006)	62084	10.0000	9.5650
58 Ethylbenzene	91	16.169	16.169	(1.007)	322024	10.0000	10.0920
59 m,p-Xylenes	106	16.298	16.297	(1.015)	221856	20.0000	19.7906
60 o-Xylene	106	16.781	16.781	(1.045)	108547	10.0000	10.0477
61 Styrene	104	16.791	16.791	(1.046)	181099	10.0000	10.0101
62 Bromoform	173	17.057	17.057	(1.063)	54487	10.0000	9.4968
63 Isopropylbenzene	105	17.185	17.185	(0.916)	265150	10.0000	10.1040
64 Cyclohexanone_	55	17.323	17.323	(0.924)	43519	100.000	70.9212
$ 65 Bromofluorobenzene	95	17.392	17.382	(0.927)	978354	50.0000	49.6823
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	108203	10.0000	10.2429
67 1,2,3-Trichloropropane	110	17.560	17.560	(0.936)	25418	10.0000	10.3092
68 Bromobenzene	156	17.609	17.609	(0.939)	77984	10.0000	10.1539
69 Propylbenzene	91	17.649	17.648	(0.941)	319572	10.0000	10.2075
70 2-Chlorotoluene	91	17.797	17.796	(0.949)	217576	10.0000	10.1503
71 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.950)	184786	10.0000	10.3665
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	198810	10.0000	10.2476
73 tert-Butylbenzene	119	18.230	18.230	(0.972)	156897	10.0000	9.8305
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	170154	10.0000	10.2101
75 sec-Butylbenzene	105	18.477	18.477	(0.985)	246240	10.0000	10.2386
76 para-Isopropyl Toluene	119	18.625	18.615	(0.993)	169631	10.0000	9.9963

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	121507	10.0000	10.0769
* 78 1,4-Dichlorobenzene-d4	152	18.753	18.753	(1.000)	833297	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	125930	10.0000	9.9833
80 n-Butylbenzene	91	19.118	19.118	(1.019)	162030	10.0000	10.0851
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	117672	10.0000	10.0070
82 1,2-Dibromo-3-Chloropropane	75	20.252	20.252	(1.080)	15282	10.0000	9.5989
83 1,2,4-Trichlorobenzene	180	21.514	21.514	(1.147)	43262	10.0000	9.7278
84 Hexachlorobutadiene	225	21.731	21.731	(1.159)	26029	10.0000	9.9430
85 Naphthalene	128	21.968	21.968	(1.171)	98189	10.0000	9.9304
86 1,2,3-Trichlorobenzene	180	22.382	22.382	(1.194)	38928	10.0000	9.8635

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
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Client ID: DYNA P&T
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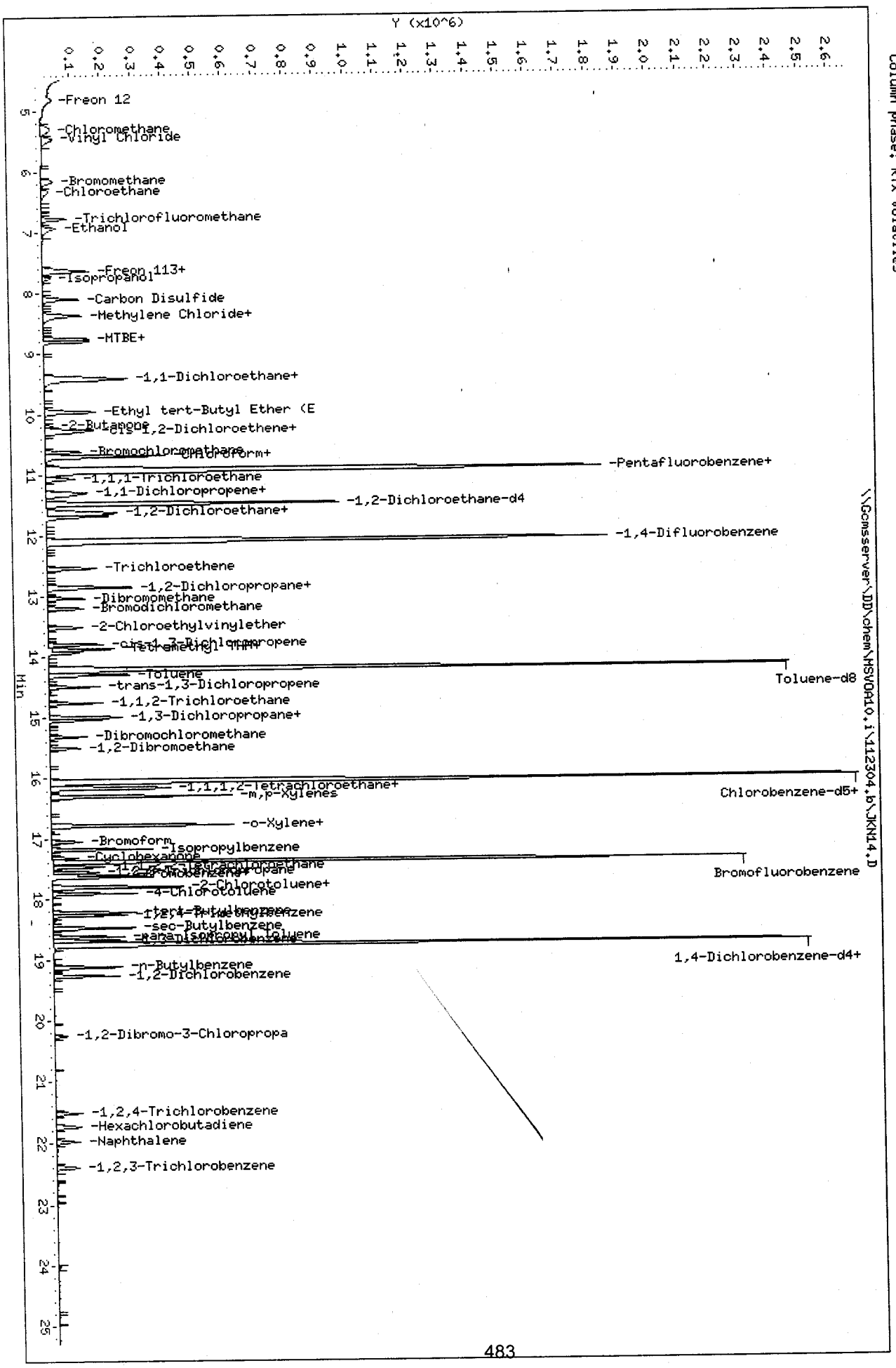
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-NOV-2004 22:30 MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,04SS408,0.004/100,04WS2168A,0.008/100
Misc Info : 04WS2204A,0.002/100, 20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target Quant Type: ISTD
Cal Date : 23-NOV-2004 22:30 Cal File: JKN15.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.808	4.808	(0.440)	172794	20.0000	19.9363
2 Chloromethane	50	5.311	5.292	(0.486)	265621	20.0000	19.7636
3 Vinyl Chloride	62	5.459	5.459	(0.500)	229656	20.0000	19.7528
4 Bromomethane	94	6.150	6.150	(0.563)	137382	20.0000	19.9583
5 Chloroethane	64	6.317	6.327	(0.578)	132792	20.0000	19.4806
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	186487	20.0000	18.9455
7 Ethanol	45	6.929	6.929	(0.634)	232077	2000.00	2129.7849
8 Freon 113	101	7.619	7.609	(0.698)	127255	20.0000	21.4522
9 Acetone	43	7.629	7.629	(0.698)	59676	20.0000	20.7019
10 1,1-Dichloroethene	96	7.639	7.639	(0.699)	129718	20.0000	21.2332
11 Isopropanol	45	7.747	7.737	(0.709)	115572	200.000	224.1967
12 Carbon Disulfide	76	8.092	8.102	(0.741)	502499	20.0000	20.3170
13 Methylene Chloride	84	8.359	8.359	(0.765)	170342	20.0000	20.1881
14 tert-Butyl Alcohol (TBA)	59	8.368	8.359	(0.766)	138447	200.000	212.0665
15 MTBE	73	8.743	8.753	(0.800)	429802	20.0000	20.4097
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.805)	147902	20.0000	19.5740
17 Vinyl Acetate	43	9.374	9.374	(0.858)	456539	20.0000	20.3208
18 1,1-Dichloroethane	63	9.414	9.414	(0.862)	276788	20.0000	19.8285
19 Isopropyl Ether (DIPE)	45	9.434	9.434	(0.864)	615813	20.0000	20.2491
20 Ethyl tert-Butyl Ether (ETBE)	59	9.966	9.966	(0.912)	497360	20.0000	20.2825
21 2-Butanone	43	10.193	10.193	(0.933)	95451	20.0000	20.5701
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	165726	20.0000	19.9079

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.301	10.301	(0.943)	177525	20.0000	20.6522
24 Bromochloromethane	128	10.627	10.627	(0.973)	85916	20.0000	20.4527
25 Chloroform	83	10.696	10.696	(0.979)	254101	20.0000	19.7157
26 Tetrahydrofuran	42	10.706	10.706	(0.980)	542104	200.000	202.6748
* 27 Pentafluorobenzene	168	10.923	10.923	(1.000)	1486760	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.001)	858449	50.0000	49.5602
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	187127	20.0000	20.8354
30 1,1-Dichloropropene	75	11.297	11.307	(0.934)	205562	20.0000	20.8485
31 Carbon Tetrachloride	117	11.347	11.347	(0.938)	151896	20.0000	21.1289
$ 32 1,2-Dichloroethane-d4	65	11.485	11.475	(0.949)	840083	50.0000	49.8409
33 1,2-Dichloroethane	62	11.593	11.593	(0.958)	193847	20.0000	19.6899
34 Benzene	78	11.643	11.643	(0.962)	605690	20.0000	20.1703
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	459569	20.0000	20.4753
* 36 1,4-Difluorobenzene	114	12.096	12.096	(1.000)	2297773	50.0000	
37 Trichloroethene	95	12.540	12.540	(1.037)	151228	20.0000	20.1080
38 1,2-Dichloropropane	63	12.856	12.856	(1.063)	184018	20.0000	19.9747
$ 39 Trifluorotoluene	146	12.846	12.846	(1.062)	208142	20.0000	20.7936
40 Dibromomethane	93	13.033	13.033	(1.077)	123034	20.0000	20.0423
41 Bromodichloromethane	83	13.201	13.191	(1.091)	191786	20.0000	19.9975
42 2-Chloroethylvinylether	63	13.516	13.516	(1.117)	125437	20.0000	20.7500
43 cis-1,3-Dichloropropene	75	13.792	13.793	(1.140)	256328	20.0000	19.9738
44 Tetramethyl THF	43	13.871	13.871	(1.147)	356634	20.0000	19.9115
45 4-Methyl-2-Pentanone	43	13.931	13.921	(1.152)	238421	20.0000	20.8284
$ 46 Toluene-d8	98	14.207	14.207	(1.174)	2297073	50.0000	50.0324
47 Toluene	92	14.295	14.295	(1.182)	337863	20.0000	19.8494
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.198)	227046	20.0000	19.7592
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.220)	84027	20.0000	20.3227
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	247679	20.0000	20.2251
51 2-Hexanone	43	14.996	14.996	(0.934)	136066	20.0000	20.5562
52 Tetrachloroethene	166	15.035	15.035	(0.937)	134491	20.0000	19.8739
53 Dibromochloromethane	129	15.311	15.311	(0.954)	153255	20.0000	20.0608
54 1,2-Dibromoethane	107	15.499	15.499	(1.281)	168080	20.0000	20.4640
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1864269	50.0000	
56 Chlorobenzene	112	16.090	16.080	(1.002)	374993	20.0000	19.7890
57 1,1,1,2-Tetrachloroethane	131	16.149	16.149	(1.006)	125887	20.0000	19.8204
58 Ethylbenzene	91	16.169	16.169	(1.007)	632923	20.0000	20.2705
59 m,p-Xylenes	106	16.297	16.297	(1.015)	442003	40.0000	40.2938
60 o-Xylene	106	16.781	16.781	(1.045)	212428	20.0000	20.0950
61 Styrene	104	16.790	16.791	(1.046)	366427	20.0000	20.6984
62 Bromoform	173	17.057	17.057	(1.063)	112085	20.0000	19.9644
63 Isopropylbenzene	105	17.185	17.185	(0.916)	542147	20.0000	21.0430
64 Cyclohexanone_	55	17.323	17.323	(0.924)	143805	200.000	238.7039
$ 65 Bromofluorobenzene	95	17.392	17.382	(0.927)	967463	50.0000	50.0413
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	211114	20.0000	20.3558
67 1,2,3-Trichloropropane	110	17.560	17.560	(0.936)	48531	20.0000	20.0490
68 Bromobenzene	156	17.609	17.609	(0.939)	153806	20.0000	20.3981
69 Propylbenzene	91	17.648	17.648	(0.941)	645795	20.0000	21.0105
70 2-Chlorotoluene	91	17.806	17.796	(0.950)	430764	20.0000	20.4690
71 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.950)	358596	20.0000	20.4907
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	383108	20.0000	20.1138
73 tert-Butylbenzene	119	18.230	18.230	(0.972)	321352	20.0000	20.5084
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	340362	20.0000	20.8027
75 sec-Butylbenzene	105	18.487	18.477	(0.986)	510024	20.0000	21.6004
76 para-Isopropyl Toluene	119	18.625	18.615	(0.993)	345539	20.0000	20.7406

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	240401	20.0000	20.3072
* 78 1,4-Dichlorobenzene-d4	152	18.753	18.753	(1.000)	818110	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	249056	20.0000	20.1109
80 n-Butylbenzene	91	19.118	19.118	(1.019)	331192	20.0000	20.9968
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	232858	20.0000	20.1703
82 1,2-Dibromo-3-Chloropropane	75	20.252	20.252	(1.080)	31705	20.0000	20.2841
83 1,2,4-Trichlorobenzene	180	21.514	21.514	(1.147)	87296	20.0000	19.9936
84 Hexachlorobutadiene	225	21.731	21.731	(1.159)	55628	20.0000	21.6443
85 Naphthalene	128	21.968	21.968	(1.171)	199712	20.0000	20.5729
86 1,2,3-Trichlorobenzene	180	22.392	22.382	(1.194)	78491	20.0000	20.2572

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Instrument: MSVOA10.i
Operator: VOC
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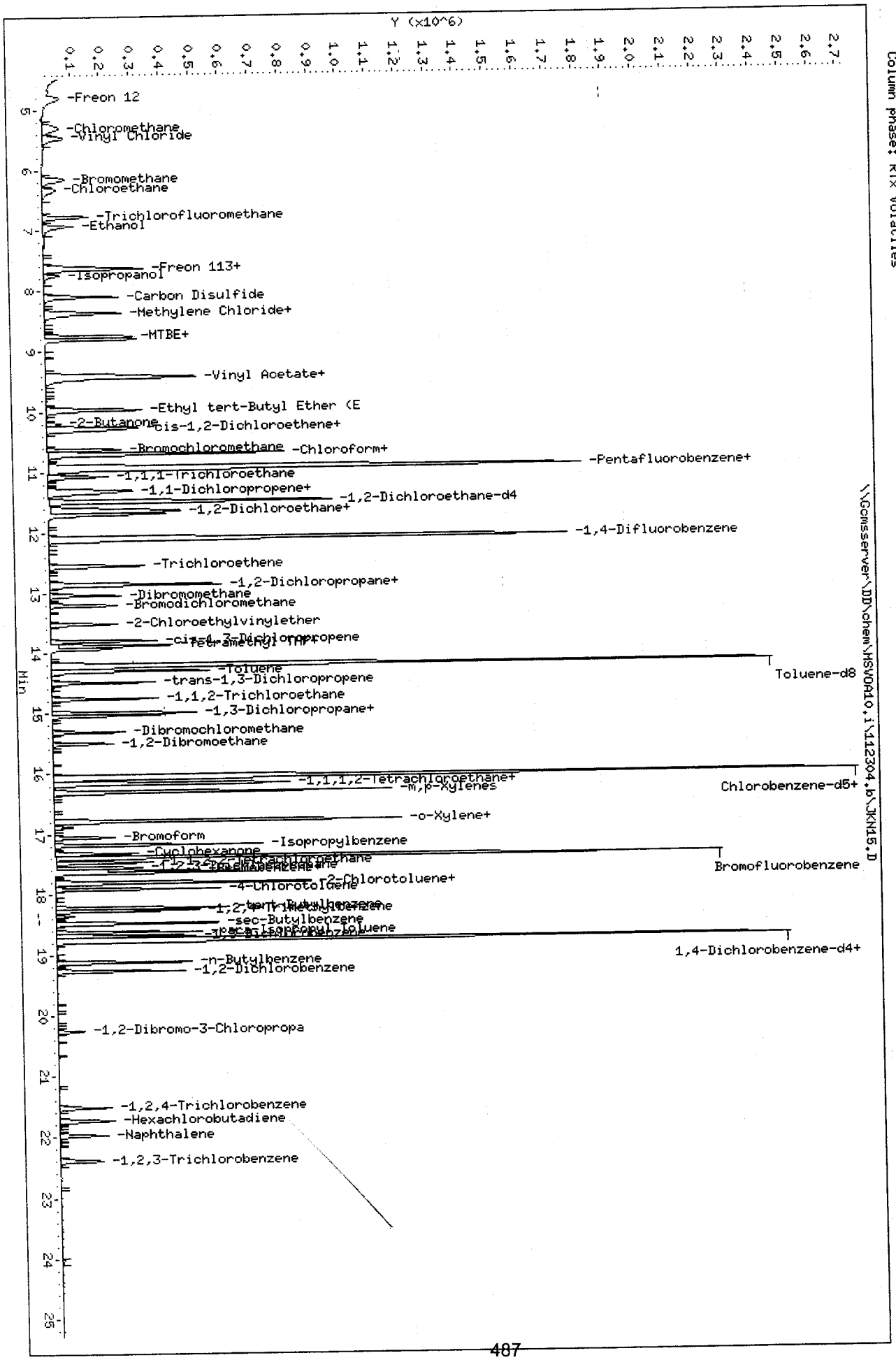

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Report Date: 24-Nov-2004 16:01

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
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Inst ID: MSVOA10.i
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Quant Type: ISTD
Cal Date : 23-NOV-2004 23:04
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Als bottle: 16
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.824	4.808	(0.442)	519408	50.0000	57.0868
2 Chloromethane	50	5.298	5.292	(0.486)	724067	50.0000	51.3208
3 Vinyl Chloride	62	5.475	5.459	(0.502)	650134	50.0000	53.2676
4 Bromomethane	94	6.156	6.150	(0.564)	392983	50.0000	51.6114
5 Chloroethane	64	6.314	6.327	(0.579)	368075	50.0000	51.4371
6 Trichlorofluoromethane	101	6.767	6.771	(0.620)	566727	50.0000	54.8456
7 Ethanol	45	6.925	6.929	(0.635)	595799	5000.00	5208.5094
8 Freon 113	101	7.605	7.609	(0.697)	341565	50.0000	54.8506
9 Acetone	43	7.625	7.629	(0.699)	152287	50.0000	50.3251
10 1,1-Dichloroethene	96	7.645	7.639	(0.701)	336880	50.0000	52.5293
11 Isopropanol	45	7.743	7.737	(0.710)	276218	500.000	510.4328
12 Carbon Disulfide	76	8.089	8.102	(0.741)	1321071	50.0000	50.8816
13 Methylene Chloride	84	8.355	8.359	(0.766)	439979	50.0000	49.6726
14 tert-Butyl Alcohol (TBA)	59	8.365	8.359	(0.767)	373134	500.000	544.4568
15 MTBE	73	8.740	8.753	(0.801)	1134665	50.0000	51.3271
16 trans-1,2-Dichloroethene	96	8.789	8.793	(0.806)	394082	50.0000	49.6824
17 Vinyl Acetate	43	9.371	9.374	(0.859)	1217523	50.0000	51.6240(M)
18 1,1-Dichloroethane	63	9.410	9.414	(0.863)	725249	50.0000	49.4925
19 Isopropyl Ether (DIPE)	45	9.420	9.434	(0.864)	1586150	50.0000	49.6834
20 Ethyl tert-Butyl Ether (ETBE)	59	9.962	9.966	(0.913)	1309399	50.0000	50.8668
21 2-Butanone	43	10.189	10.193	(0.934)	251668	50.0000	51.6647
22 cis-1,2-Dichloroethene	96	10.258	10.262	(0.940)	436031	50.0000	49.8957

b 11/24/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
Report Date: 24-Nov-2004 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.298	10.301	(0.944)	464791	50.0000	51.5080
24 Bromochloromethane	128	10.633	10.627	(0.975)	234370	50.0000	53.1484
25 Chloroform	83	10.692	10.696	(0.980)	666575	50.0000	49.2680
26 Tetrahydrofuran	42	10.702	10.706	(0.981)	1430518	500.000	509.4723
* 27 Pentafluorobenzene	168	10.909	10.923	(1.000)	1560741	50.0000	
$ 28 Dibromofluoromethane	113	10.929	10.933	(1.002)	910724	50.0000	50.0859
29 1,1,1-Trichloroethane	97	11.067	11.071	(1.014)	491150	50.0000	52.0943
30 1,1-Dichloropropene	75	11.304	11.307	(0.935)	536848	50.0000	51.9821
31 Carbon Tetrachloride	117	11.343	11.347	(0.938)	407393	50.0000	54.1021
$ 32 1,2-Dichloroethane-d4	65	11.481	11.475	(0.949)	896477	50.0000	50.7777
33 1,2-Dichloroethane	62	11.599	11.593	(0.959)	518641	50.0000	50.2947
34 Benzene	78	11.639	11.643	(0.962)	1562034	50.0000	49.6618
35 Methyl tert-Amyl Ether (TAME)	73	11.688	11.692	(0.967)	1223755	50.0000	52.0529
* 36 1,4-Difluorobenzene	114	12.093	12.096	(1.000)	2406782	50.0000	
37 Trichloroethene	95	12.536	12.540	(1.037)	402829	50.0000	51.1361
38 1,2-Dichloropropane	63	12.862	12.856	(1.064)	486419	50.0000	50.4083
$ 39 Trifluorotoluene	146	12.842	12.846	(1.062)	566749	50.0000	54.0544
40 Dibromomethane	93	13.029	13.033	(1.077)	330629	50.0000	51.4202
41 Bromodichloromethane	83	13.197	13.191	(1.091)	523033	50.0000	52.0665
42 2-Chloroethylvinylether	63	13.513	13.516	(1.117)	348723	50.0000	55.0736
43 cis-1,3-Dichloropropene	75	13.789	13.793	(1.140)	677027	50.0000	50.3665
44 Tetramethyl THF	43	13.868	13.871	(1.147)	938686	50.0000	50.0347
45 4-Methyl-2-Pentanone	43	13.927	13.921	(1.152)	662976	50.0000	55.2942
$ 46 Toluene-d8	98	14.203	14.207	(1.175)	2411075	50.0000	50.1369
47 Toluene	92	14.292	14.295	(1.182)	893053	50.0000	50.0904
48 trans-1,3-Dichloropropene	75	14.489	14.493	(1.198)	610596	50.0000	50.7318
49 1,1,2-Trichloroethane	85	14.755	14.759	(1.220)	224632	50.0000	51.8686
50 1,3-Dichloropropane	76	14.992	14.986	(0.934)	655788	50.0000	50.8091
51 2-Hexanone	43	14.992	14.996	(0.934)	368862	50.0000	52.8730
52 Tetrachloroethene	166	15.031	15.035	(0.937)	360875	50.0000	50.5969
53 Dibromochloromethane	129	15.308	15.311	(0.954)	422090	50.0000	52.4222
54 1,2-Dibromoethane	107	15.495	15.499	(1.281)	450803	50.0000	52.4002
* 55 Chlorobenzene-d5	117	16.047	16.051	(1.000)	1964862	50.0000	
56 Chlorobenzene	112	16.087	16.080	(1.002)	995841	50.0000	49.8618
57 1,1,1,2-Tetrachloroethane	131	16.146	16.149	(1.006)	346153	50.0000	51.7102
58 Ethylbenzene	91	16.165	16.169	(1.007)	1656387	50.0000	50.3330
59 m,p-Xylenes	106	16.304	16.297	(1.016)	1178036	100.000	101.8939
60 o-Xylene	106	16.787	16.781	(1.046)	572660	50.0000	51.3984
61 Styrene	104	16.787	16.791	(1.046)	986358	50.0000	52.8640
62 Bromoform	173	17.053	17.057	(1.063)	307662	50.0000	51.9947
63 Isopropylbenzene	105	17.181	17.185	(0.916)	1403607	50.0000	50.8602
64 Cyclohexanone_	55	17.319	17.323	(0.924)	358660	500.000	555.7878
$ 65 Bromofluorobenzene	95	17.388	17.382	(0.927)	1025841	50.0000	49.5353
66 1,1,2,2-Tetrachloroethane	83	17.477	17.481	(0.932)	574472	50.0000	51.7109
67 1,2,3-Trichloropropane	110	17.566	17.560	(0.937)	131909	50.0000	50.8731
68 Bromobenzene	156	17.615	17.609	(0.940)	416181	50.0000	51.5277
69 Propylbenzene	91	17.645	17.648	(0.941)	1687989	50.0000	51.2687
70 2-Chlorotoluene	91	17.803	17.796	(0.950)	1149801	50.0000	51.0059
71 1,3,5-Trimethylbenzene	105	17.822	17.816	(0.951)	982269	50.0000	52.3989
72 4-Chlorotoluene	91	17.911	17.915	(0.955)	1043261	50.0000	51.1336
73 tert-Butylbenzene	119	18.227	18.230	(0.972)	885542	50.0000	52.7597
74 1,2,4-Trimethylbenzene	105	18.276	18.270	(0.975)	900467	50.0000	51.3792
75 sec-Butylbenzene	105	18.483	18.477	(0.986)	1328383	50.0000	52.5213
76 para-Isopropyl Toluene	119	18.621	18.615	(0.993)	929418	50.0000	52.0806

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
Report Date: 24-Nov-2004 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.680	18.684	(0.996)	648485	50.0000	51.1394
* 78 1,4-Dichlorobenzene-d4	152	18.749	18.753	(1.000)	876337	50.0000	
79 1,4-Dichlorobenzene	146	18.779	18.783	(1.002)	657413	50.0000	49.5580
80 n-Butylbenzene	91	19.114	19.118	(1.019)	870614	50.0000	51.5276
81 1,2-Dichlorobenzene	146	19.262	19.266	(1.027)	620638	50.0000	50.1880
82 1,2-Dibromo-3-Chloropropane	75	20.258	20.252	(1.080)	86154	50.0000	51.4571
83 1,2,4-Trichlorobenzene	180	21.511	21.514	(1.147)	230636	50.0000	49.3134
84 Hexachlorobutadiene	225	21.728	21.731	(1.159)	144462	50.0000	52.4740
85 Naphthalene	128	21.964	21.968	(1.171)	548619	50.0000	52.7599
86 1,2,3-Trichlorobenzene	180	22.388	22.382	(1.194)	216739	50.0000	52.2201

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
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Instrument: MSVOA10.i
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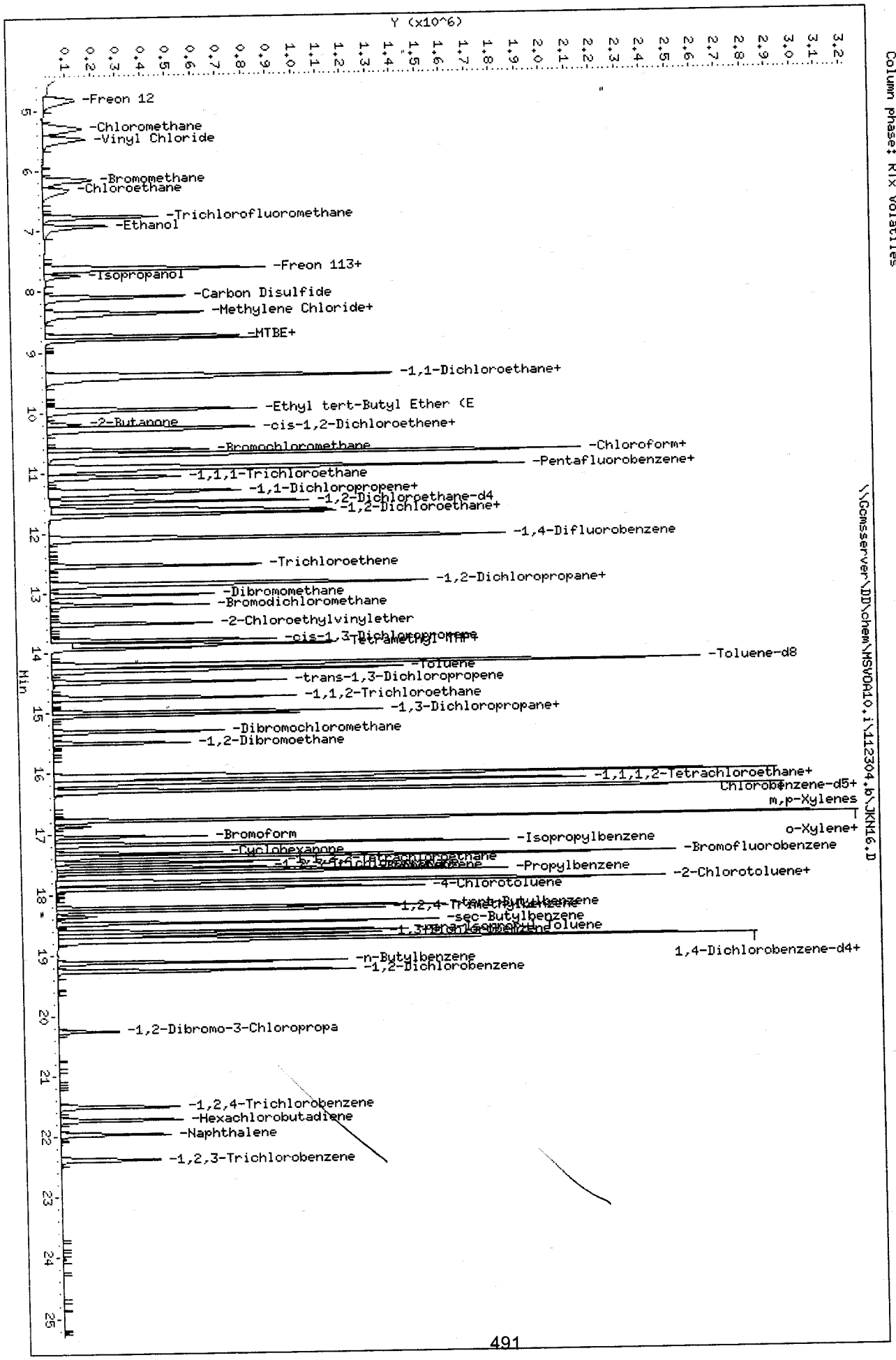

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Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Lab Smp Id:
Inj Date : 23-NOV-2004 23:38
Operator : VOC
Smp Info : ICAL,04SS408,0.015/100,04WS2168A,0.03/100
Misc Info : 04WS2204A,0.0075/100, 75PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Cal Date : 23-NOV-2004 23:38
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 22-SEP-2004 10:51
Inst ID: MSVOA10.i

Quant Type: ISTD
Cal File: JKN17.D
Calibration Sample, Level: 4

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.809	4.808	(0.441)	722103	75.0000	77.7993
2 Chloromethane	50	5.272	5.292	(0.483)	1028528	75.0000	71.4628
3 Vinyl Chloride	62	5.460	5.459	(0.500)	921569	75.0000	74.0180
4 Bromomethane	94	6.140	6.150	(0.563)	588075	75.0000	73.1833
5 Chloroethane	64	6.318	6.327	(0.579)	537259	75.0000	73.5992
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	805765	75.0000	76.4408
7 Ethanol	45	6.929	6.929	(0.635)	937393	7500.00	8033.1232
8 Freon 113	101	7.610	7.609	(0.697)	514454	75.0000	80.9849
9 Acetone	43	7.629	7.629	(0.699)	209708	75.0000	67.9338
10 1,1-Dichloroethene	96	7.639	7.639	(0.700)	517046	75.0000	79.0323
11 Isopropanol	45	7.748	7.737	(0.710)	397812	750.000	720.6320
12 Carbon Disulfide	76	8.103	8.102	(0.742)	1965918	75.0000	74.2248
13 Methylene Chloride	84	8.359	8.359	(0.766)	651799	75.0000	72.1354
14 tert-Butyl Alcohol (TBA)	59	8.359	8.359	(0.766)	539063	750.000	771.0583
15 MTBE	73	8.744	8.753	(0.801)	1648233	75.0000	73.0882
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.806)	597835	75.0000	73.8833
17 Vinyl Acetate	43	9.375	9.374	(0.859)	1700810	75.0000	70.6934(M)
18 1,1-Dichloroethane	63	9.414	9.414	(0.863)	1081821	75.0000	72.3697
19 Isopropyl Ether (DIPE)	45	9.424	9.434	(0.864)	2357448	75.0000	72.3867
20 Ethyl tert-Butyl Ether (ETBE)	59	9.967	9.966	(0.913)	1955524	75.0000	74.4688
21 2-Butanone	43	10.193	10.193	(0.934)	365570	75.0000	73.5674
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	656996	75.0000	73.6984

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Report Date: 24-Nov-2004 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.302	10.301	(0.944)	696883	75.0000	75.7052
24 Bromochloromethane	128	10.627	10.627	(0.974)	348940	75.0000	77.5690
25 Chloroform	83	10.696	10.696	(0.980)	1004664	75.0000	72.7923
26 Tetrahydrofuran	42	10.706	10.706	(0.981)	1971723	750.000	688.3704
* 27 Pentafluorobenzene	168	10.913	10.923	(1.000)	1592142	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.002)	924538	50.0000	49.8428
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	745760	75.0000	77.5398
30 1,1-Dichloropropene	75	11.308	11.307	(0.936)	813850	75.0000	77.6541
31 Carbon Tetrachloride	117	11.347	11.347	(0.939)	615583	75.0000	80.5572
$ 32 1,2-Dichloroethane-d4	65	11.485	11.475	(0.950)	891097	50.0000	49.7366
33 1,2-Dichloroethane	62	11.594	11.593	(0.959)	767689	75.0000	73.3598
34 Benzene	78	11.633	11.643	(0.962)	2337285	75.0000	73.2253
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	1796190	75.0000	75.2869
* 36 1,4-Difluorobenzene	114	12.087	12.096	(1.000)	2442417	50.0000	
37 Trichloroethene	95	12.541	12.540	(1.038)	601168	75.0000	75.2003
38 1,2-Dichloropropane	63	12.856	12.856	(1.064)	714902	75.0000	73.0054
$ 39 Trifluorotoluene	146	12.846	12.846	(1.063)	858667	75.0000	80.7016
40 Dibromomethane	93	13.034	13.033	(1.078)	499464	75.0000	76.5445
41 Bromodichloromethane	83	13.191	13.191	(1.091)	775021	75.0000	76.0255
42 2-Chloroethylvinylether	63	13.517	13.516	(1.118)	490149	75.0000	76.2795
43 cis-1,3-Dichloropropene	75	13.793	13.793	(1.141)	1010671	75.0000	74.0905
44 Tetramethyl THF	43	13.872	13.871	(1.148)	1368291	75.0000	71.8699
45 4-Methyl-2-Pentanone	43	13.921	13.921	(1.152)	884486	75.0000	72.6926
$ 46 Toluene-d8	98	14.197	14.207	(1.175)	2428754	50.0000	49.7677
47 Toluene	92	14.296	14.295	(1.183)	1336769	75.0000	73.8841
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.199)	899713	75.0000	73.6626
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.221)	331501	75.0000	75.4284
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	965924	75.0000	73.9547
51 2-Hexanone	43	14.996	14.996	(0.934)	505421	75.0000	71.5926
52 Tetrachloroethene	166	15.036	15.035	(0.937)	558556	75.0000	77.3888
53 Dibromochloromethane	129	15.312	15.311	(0.954)	634126	75.0000	77.8271
54 1,2-Dibromoethane	107	15.499	15.499	(1.282)	662390	75.0000	75.8712
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1988325	50.0000	
56 Chlorobenzene	112	16.081	16.080	(1.002)	1471928	75.0000	72.8298
57 1,1,1,2-Tetrachloroethane	131	16.150	16.149	(1.006)	519526	75.0000	76.6937
58 Ethylbenzene	91	16.170	16.169	(1.007)	2431621	75.0000	73.0183
59 m,p-Xylenes	106	16.298	16.297	(1.015)	1767402	150.000	151.0670
60 o-Xylene	106	16.781	16.781	(1.045)	863095	75.0000	76.5519
61 Styrene	104	16.791	16.791	(1.046)	1473273	75.0000	78.0286
62 Bromoform	173	17.057	17.057	(1.063)	456869	75.0000	76.2995
63 Isopropylbenzene	105	17.185	17.185	(0.916)	2043917	75.0000	72.8238
64 Cyclohexanone_	55	17.324	17.323	(0.924)	513675	750.000	782.6939
$ 65 Bromofluorobenzene	95	17.383	17.382	(0.927)	1042904	50.0000	49.5172
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	819085	75.0000	72.4969
67 1,2,3-Trichloropropane	110	17.570	17.560	(0.937)	190256	75.0000	72.1490
68 Bromobenzene	156	17.610	17.609	(0.939)	625101	75.0000	76.1003
69 Propylbenzene	91	17.649	17.648	(0.941)	2455612	75.0000	73.3364
70 2-Chlorotoluene	91	17.797	17.796	(0.949)	1693144	75.0000	73.8532
71 1,3,5-Trimethylbenzene	105	17.817	17.816	(0.950)	1433181	75.0000	75.1745
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	1529883	75.0000	73.7308
73 tert-Butylbenzene	119	18.231	18.230	(0.972)	1263729	75.0000	74.0328
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	1332710	75.0000	74.7710
75 sec-Butylbenzene	105	18.477	18.477	(0.985)	1956606	75.0000	76.0664
76 para-Isopropyl Toluene	119	18.625	18.615	(0.993)	1381679	75.0000	76.1289

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Report Date: 24-Nov-2004 16:01

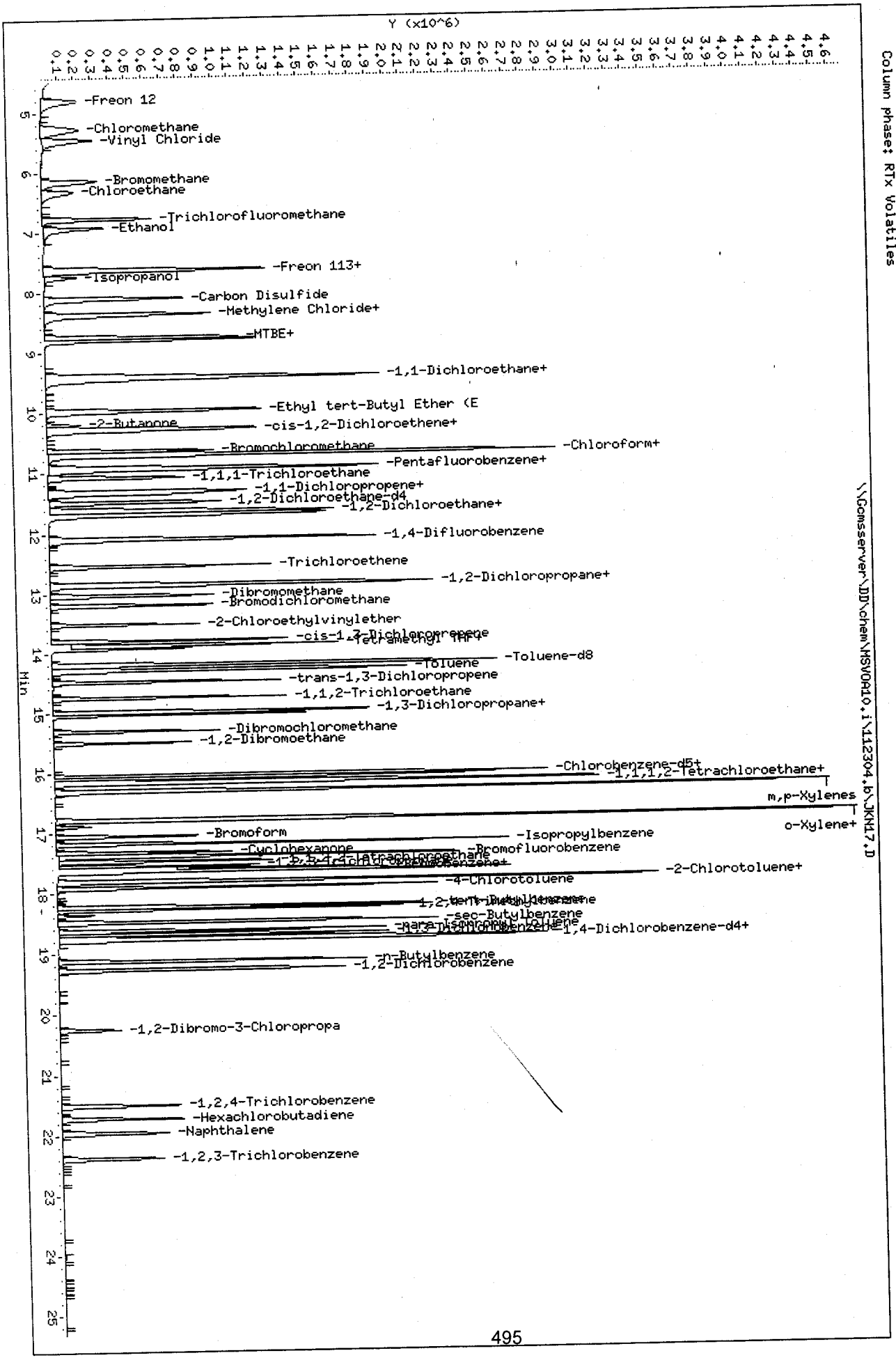
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	973386	75.0000	75.4776
* 78 1,4-Dichlorobenzene-d4	152	18.754	18.753	(1.000)	891238	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	997826	75.0000	73.9619
80 n-Butylbenzene	91	19.118	19.118	(1.019)	1285805	75.0000	74.8286
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	927518	75.0000	73.7499
82 1,2-Dibromo-3-Chloropropane	75	20.253	20.252	(1.080)	122801	75.0000	72.1189
83 1,2,4-Trichlorobenzene	180	21.515	21.514	(1.147)	344105	75.0000	72.3447
84 Hexachlorobutadiene	225	21.732	21.731	(1.159)	218975	75.0000	78.2101
85 Naphthalene	128	21.968	21.968	(1.171)	782059	75.0000	73.9520
86 1,2,3-Trichlorobenzene	180	22.383	22.382	(1.194)	312801	75.0000	74.1048

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Date : 23-NOV-2004 23:38
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.015/100,04WS2168A,0.03/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Report Date: 24-Nov-2004 16:01

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Lab Smp Id:
Inj Date : 24-NOV-2004 00:11
Operator : VOC
Smp Info : ICAL,04SS408,0.02/100,04WS2168A,0.04/100
Misc Info : 04WS2204A,0.01/100, 100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Cal Date : 24-NOV-2004 00:11
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 22-SEP-2004 10:51
Inst ID: MSVOA10.i
Quant Type: ISTD
Cal File: JKN18.D
Calibration Sample, Level: 5
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.808	4.808	(0.440)	977149	100.000	106.3503
2 Chloromethane	50	5.292	5.292	(0.484)	1333251	100.000	93.5787
3 Vinyl Chloride	62	5.459	5.459	(0.500)	1220299	100.000	99.0096
4 Bromomethane	94	6.150	6.150	(0.563)	838254	100.000	100.5165
5 Chloroethane	64	6.327	6.327	(0.579)	714497	100.000	98.8761
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	1086271	100.000	104.1014
7 Ethanol	45	6.929	6.929	(0.634)	1315330	10000.0	11386.7237
8 Freon 113	101	7.609	7.609	(0.697)	678969	100.000	107.9714
9 Acetone	43	7.629	7.629	(0.698)	288065	100.000	94.2677
10 1,1-Dichloroethene	96	7.639	7.639	(0.699)	687030	100.000	106.0847
11 Isopropanol	45	7.737	7.737	(0.708)	575609	1000.00	1053.3304
12 Carbon Disulfide	76	8.102	8.102	(0.742)	2586868	100.000	98.6642
13 Methylene Chloride	84	8.359	8.359	(0.765)	890562	100.000	99.5635
14 tert-Butyl Alcohol (TBA)	59	8.359	8.359	(0.765)	783560	1000.00	1132.1951
15 MTBE	73	8.753	8.753	(0.801)	2236100	100.000	100.1662
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.805)	800445	100.000	99.9305
17 Vinyl Acetate	43	9.374	9.374	(0.858)	2256187	100.000	94.7327
18 1,1-Dichloroethane	63	9.414	9.414	(0.862)	1442535	100.000	97.4831
19 Isopropyl Ether (DIPE)	45	9.434	9.434	(0.864)	3116732	100.000	96.6757
20 Ethyl tert-Butyl Ether (ETBE)	59	9.966	9.966	(0.912)	2599759	100.000	100.0105
21 2-Butanone	43	10.193	10.193	(0.933)	507443	100.000	103.1581
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	875594	100.000	99.2200

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Report Date: 24-Nov-2004 16:01

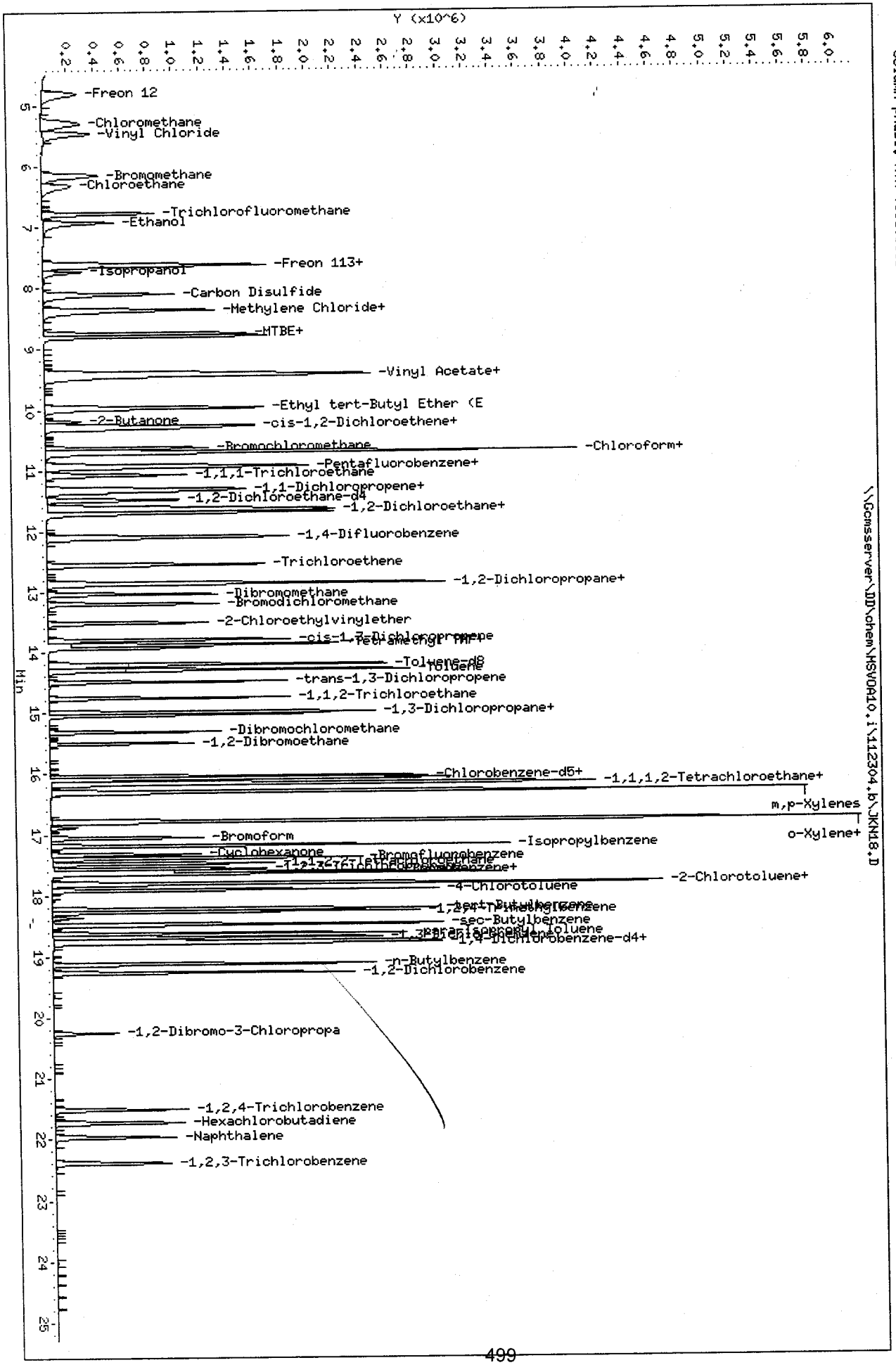
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.301	10.301	(0.943)	923116	100.000	101.3033
24 Bromochloromethane	128	10.627	10.627	(0.973)	472243	100.000	106.0484
25 Chloroform	83	10.696	10.696	(0.979)	1316840	100.000	96.3827
26 Tetrahydrofuran	42	10.706	10.706	(0.980)	2675650	1000.00	943.6413
* 27 Pentafluorobenzene	168	10.923	10.923	(1.000)	1576088	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.001)	916771	50.0000	49.9275
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	990613	100.000	104.0473
30 1,1-Dichloropropene	75	11.307	11.307	(0.935)	1068939	100.000	103.3280
31 Carbon Tetrachloride	117	11.347	11.347	(0.938)	810202	100.000	107.4128
$ 32 1,2-Dichloroethane-d4	65	11.475	11.475	(0.949)	887744	50.0000	50.1977
33 1,2-Dichloroethane	62	11.593	11.593	(0.958)	1021481	100.000	98.8890
34 Benzene	78	11.643	11.643	(0.962)	3059890	100.000	97.1181
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	2413532	100.000	102.4862
* 36 1,4-Difluorobenzene	114	12.096	12.096	(1.000)	2410876	50.0000	
37 Trichloroethene	95	12.540	12.540	(1.037)	805882	100.000	102.1270
38 1,2-Dichloropropane	63	12.856	12.856	(1.063)	967899	100.000	100.1344
$ 39 Trifluorotoluene	146	12.846	12.846	(1.062)	1140696	100.000	108.6107
40 Dibromomethane	93	13.033	13.033	(1.077)	660078	100.000	102.4825
41 Bromodichloromethane	83	13.191	13.191	(1.090)	1041479	100.000	103.5003
42 2-Chloroethylvinylether	63	13.516	13.516	(1.117)	673519	100.000	106.1878
43 cis-1,3-Dichloropropene	75	13.793	13.793	(1.140)	1346364	100.000	99.9908
44 Tetramethyl THF	43	13.871	13.871	(1.147)	1844803	100.000	98.1665
45 4-Methyl-2-Pentanone	43	13.921	13.921	(1.151)	1240355	100.000	103.2738
$ 46 Toluene-d8	98	14.207	14.207	(1.174)	2445252	50.0000	50.7612
47 Toluene	92	14.295	14.295	(1.182)	1773401	100.000	99.2994
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.198)	1207478	100.000	100.1538
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.220)	453695	100.000	104.5826
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	1281433	100.000	99.6318
51 2-Hexanone	43	14.996	14.996	(0.934)	703305	100.000	101.1667
52 Tetrachloroethene	166	15.035	15.035	(0.937)	735830	100.000	103.5305
53 Dibromochloromethane	129	15.311	15.311	(0.954)	855969	100.000	106.6823
54 1,2-Dibromoethane	107	15.499	15.499	(1.281)	899925	100.000	104.4274
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1957980	50.0000	
56 Chlorobenzene	112	16.080	16.080	(1.002)	1925299	100.000	96.7386
57 1,1,1,2-Tetrachloroethane	131	16.149	16.149	(1.006)	698759	100.000	104.7512
58 Ethylbenzene	91	16.169	16.169	(1.007)	3152647	100.000	96.1370
59 m,p-Xylenes	106	16.297	16.297	(1.015)	2321985	200.000	201.5454
60 o-Xylene	106	16.781	16.781	(1.045)	1139233	100.000	102.6099
61 Styrene	104	16.791	16.791	(1.046)	1937237	100.000	104.1915
62 Bromoform	173	17.057	17.057	(1.063)	624432	100.000	105.8997
63 Isopropylbenzene	105	17.185	17.185	(0.916)	2698727	100.000	95.8679
64 Cyclohexanone_	55	17.323	17.323	(0.924)	575978	1000.00	875.0104
$ 65 Bromofluorobenzene	95	17.382	17.382	(0.927)	1041035	50.0000	49.2812
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	1110137	100.000	97.9650
67 1,2,3-Trichloropropane	110	17.560	17.560	(0.936)	262816	100.000	99.3682
68 Bromobenzene	156	17.609	17.609	(0.939)	846304	100.000	102.7227
69 Propylbenzene	91	17.648	17.648	(0.941)	3189720	100.000	94.9766
70 2-Chlorotoluene	91	17.796	17.796	(0.949)	2211233	100.000	96.1643
71 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.950)	1933025	100.000	101.0907
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	2030255	100.000	97.5541
73 tert-Butylbenzene	119	18.230	18.230	(0.972)	1712488	100.000	100.0235
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	1823629	100.000	102.0088
75 sec-Butylbenzene	105	18.477	18.477	(0.985)	2572557	100.000	99.7145
76 para-Isopropyl Toluene	119	18.615	18.615	(0.993)	1865338	100.000	102.4716

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Report Date: 24-Nov-2004 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	1291858	100.000	99.8738
* 78 1,4-Dichlorobenzene-d4	152	18.753	18.753	(1.000)	893902	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	1322680	100.000	97.7489
80 n-Butylbenzene	91	19.118	19.118	(1.019)	1742307	100.000	101.0929
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	1246065	100.000	98.7833
82 1,2-Dibromo-3-Chloropropane	75	20.252	20.252	(1.080)	173307	100.000	101.4769
83 1,2,4-Trichlorobenzene	180	21.514	21.514	(1.147)	493818	100.000	103.5110
84 Hexachlorobutadiene	225	21.731	21.731	(1.159)	295245	100.000	105.1368
85 Naphthalene	128	21.968	21.968	(1.171)	1191099	100.000	112.2955
86 1,2,3-Trichlorobenzene	180	22.382	22.382	(1.194)	459676	100.000	108.5760

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Date : 24-NOV-2004 00:11
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.02/100,04WS21680,0.04/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494472916020 Filename : jkn20 Injected : 24-NOV-2004 01:18
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04WS1940 (10000X), 04WS1968 (10000X), 04WS2096C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	25.00000	25.92150	ug/L	4	40	
Freon 113	25.00000	26.98880	ug/L	8	30	
1,1-Dichloroethene	25.00000	25.34860	ug/L	1	20	
Methylene Chloride	25.00000	25.25840	ug/L	1	30	
Carbon Disulfide	25.00000	20.30100	ug/L	-19	30	
MTBE	25.00000	25.44820	ug/L	2	30	
trans-1,2-Dichloroethene	25.00000	24.53130	ug/L	-2	30	
Vinyl Acetate	25.00000	27.29590	ug/L	9	40	
1,1-Dichloroethane	25.00000	24.97890	ug/L	0	30	
2-Butanone	25.00000	27.99340	ug/L	12	40	
2,2-Dichloropropane	25.00000	24.42300	ug/L	-2	30	
cis-1,2-Dichloroethene	25.00000	25.06320	ug/L	0	30	
Chloroform	25.00000	24.67830	ug/L	-1	20	
Bromochloromethane	25.00000	26.49760	ug/L	6	30	
1,1,1-Trichloroethane	25.00000	25.93410	ug/L	4	30	
1,1-Dichloropropene	25.00000	24.64450	ug/L	-1	30	
Carbon Tetrachloride	25.00000	26.03370	ug/L	4	30	
1,2-Dichloroethane	25.00000	25.34450	ug/L	1	30	
Benzene	25.00000	25.74620	ug/L	3	30	
Trichloroethene	25.00000	25.67690	ug/L	3	30	
1,2-Dichloropropane	25.00000	24.67840	ug/L	-1	20	
Bromodichloromethane	25.00000	26.82790	ug/L	7	30	
Dibromomethane	25.00000	25.66460	ug/L	3	30	
2-Chloroethylvinylether	25.00000	6.063200	ug/L	-76	40	v- ***
4-Methyl-2-Pentanone	25.00000	24.35550	ug/L	-3	40	
Tetramethyl THF	25.00000	28.99020	ug/L	16	30	
cis-1,3-Dichloropropene	25.00000	25.34270	ug/L	1	30	
Toluene	25.00000	25.41750	ug/L	2	20	
trans-1,3-Dichloropropene	25.00000	24.39370	ug/L	-2	30	
1,1,2-Trichloroethane	25.00000	26.93650	ug/L	8	30	
2-Hexanone	25.00000	27.45230	ug/L	10	40	
1,3-Dichloropropane	25.00000	25.80700	ug/L	3	30	
Tetrachloroethene	25.00000	25.45030	ug/L	2	30	
Dibromochloromethane	25.00000	26.47560	ug/L	6	30	
1,2-Dibromoethane	25.00000	25.91390	ug/L	4	30	
Chlorobenzene	25.00000	25.35200	ug/L	1	30	
1,1,1,2-Tetrachloroethane	25.00000	25.79620	ug/L	3	30	
Ethylbenzene	25.00000	25.77040	ug/L	3	20	
m,p-Xylenes	50.00000	51.10020	ug/L	2	30	
o-Xylene	25.00000	25.57370	ug/L	2	30	
Styrene	25.00000	27.41400	ug/L	10	30	
Bromoform	25.00000	25.21390	ug/L	1	30	
Isopropylbenzene	25.00000	23.78850	ug/L	-5	30	
1,1,2,2-Tetrachloroethane	25.00000	25.66130	ug/L	3	30	
1,2,3-Trichloropropane	25.00000	26.26980	ug/L	5	30	
Propylbenzene	25.00000	25.65340	ug/L	3	30	
Bromobenzene	25.00000	26.93930	ug/L	8	30	

-=low bias v=ICV

500

11/29/04

11/24/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494472916020 Filename : jkn20 Injected : 24-NOV-2004 01:18
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04WS1940 (10000X), 04WS1968 (10000X), 04WS2096C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	25.00000	26.39720	ug/L	6	30	
2-Chlorotoluene	25.00000	26.21110	ug/L	5	30	
4-Chlorotoluene	25.00000	25.85890	ug/L	3	30	
tert-Butylbenzene	25.00000	26.23410	ug/L	5	30	
1,2,4-Trimethylbenzene	25.00000	26.90350	ug/L	8	30	
sec-Butylbenzene	25.00000	26.24360	ug/L	5	30	
para-Isopropyl Toluene	25.00000	25.13890	ug/L	1	30	
1,3-Dichlorobenzene	25.00000	25.90400	ug/L	4	30	
1,4-Dichlorobenzene	25.00000	25.77480	ug/L	3	30	
n-Butylbenzene	25.00000	26.29170	ug/L	5	30	
1,2-Dichlorobenzene	25.00000	26.13720	ug/L	5	30	
1,2-Dibromo-3-Chloropropane	25.00000	25.90720	ug/L	4	30	
1,2,4-Trichlorobenzene	25.00000	27.06720	ug/L	8	30	
Hexachlorobutadiene	25.00000	27.27440	ug/L	9	30	
Naphthalene	25.00000	27.19800	ug/L	9	30	
1,2,3-Trichlorobenzene	25.00000	27.58100	ug/L	10	30	
tert-Butyl Alcohol (TBA)	125.0000	148.1810	ug/L	19	30	
Isopropyl Ether (DIPE)	25.00000	26.17740	ug/L	5	30	
Ethyl tert-Butyl Ether (ETBE)	25.00000	26.83580	ug/L	7	30	
Methyl tert-Amyl Ether (TAME)	25.00000	26.43370	ug/L	6	30	
Ethanol	2500.000	2768.396	ug/L	11	30	
Isopropanol	250.0000	285.2847	ug/L	14	30	
Tetrahydrofuran	250.0000	259.4585	ug/L	4	30	
Dibromofluoromethane	50.00000	49.55190	ug/L	-1	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	48.71940	ug/L	-3	30	(NOT USED)
Toluene-d8	50.00000	49.85650	ug/L	0	30	(NOT USED)
Bromofluorobenzene	50.00000	50.24380	ug/L	0	30	(NOT USED)

ISTD (ICAL=jkn16)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1560741	1568836	0.52	10.91	10.92	0.01
1,4-Difluorobenzene	2406782	2389488	-0.72	12.09	12.09	0.00
Chlorobenzene-d5	1964862	1942213	-1.15	16.05	16.05	0.00
1,4-Dichlorobenzene-d4	876337	846193	-3.44	18.75	18.75	0.00

-=low bias v=ICV

 11/29/04

11/29/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Report Date: 24-Nov-2004 11:15

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 01:18 MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICV,04WS1940,10000X,04WS1968,10000X
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target Quant Type: ISTD
Cal Date : 24-NOV-2004 00:11 Cal File: JKN18.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
2 Chloromethane	50	5.179	5.292	(0.474)	5752	0.40559	0.4055
4 Bromomethane	94	6.116	6.150	(0.560)	39069	5.71811	5.7181
7 Ethanol	45	6.924	6.929	(0.634)	318318	2768.40	2768.3957
8 Freon 113	101	7.615	7.609	(0.697)	168936	26.9888	26.9888
9 Acetone	43	7.624	7.629	(0.698)	78847	25.9215	25.9215
10 1,1-Dichloroethene	96	7.634	7.639	(0.699)	163408	25.3486	25.3485
11 Isopropanol	45	7.743	7.737	(0.709)	155181	285.285	285.2847
12 Carbon Disulfide	76	8.088	8.102	(0.741)	529822	20.3010	20.3010
13 Methylene Chloride	84	8.354	8.359	(0.765)	224888	25.2584	25.2583
14 tert-Butyl Alcohol (TBA)	59	8.364	8.359	(0.766)	102080	148.181	148.1810
15 MTBE	73	8.749	8.753	(0.801)	565490	25.4482	25.4482
16 trans-1,2-Dichloroethene	96	8.788	8.793	(0.805)	195592	24.5313	24.5313
17 Vinyl Acetate	43	9.370	9.374	(0.858)	647098	27.2959	27.2959
18 1,1-Dichloroethane	63	9.409	9.414	(0.862)	367931	24.9789	24.9788
19 Isopropyl Ether (DIPE)	45	9.429	9.434	(0.864)	840052	26.1774	26.1774
20 Ethyl tert-Butyl Ether (ETBE)	59	9.962	9.966	(0.912)	694383	26.8358	26.8358
21 2-Butanone	43	10.198	10.193	(0.934)	137068	27.9934	27.9933
22 cis-1,2-Dichloroethene	96	10.257	10.262	(0.939)	220159	25.0632	25.0631
23 2,2-Dichloropropane	77	10.297	10.301	(0.943)	221528	24.4230	24.4230
24 Bromochloromethane	128	10.622	10.627	(0.973)	117453	26.4976	26.4975
25 Chloroform	83	10.691	10.696	(0.979)	335619	24.6783	24.6783
26 Tetrahydrofuran	42	10.701	10.706	(0.980)	732297	259.458	259.4584

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Report Date: 24-Nov-2004 11:15

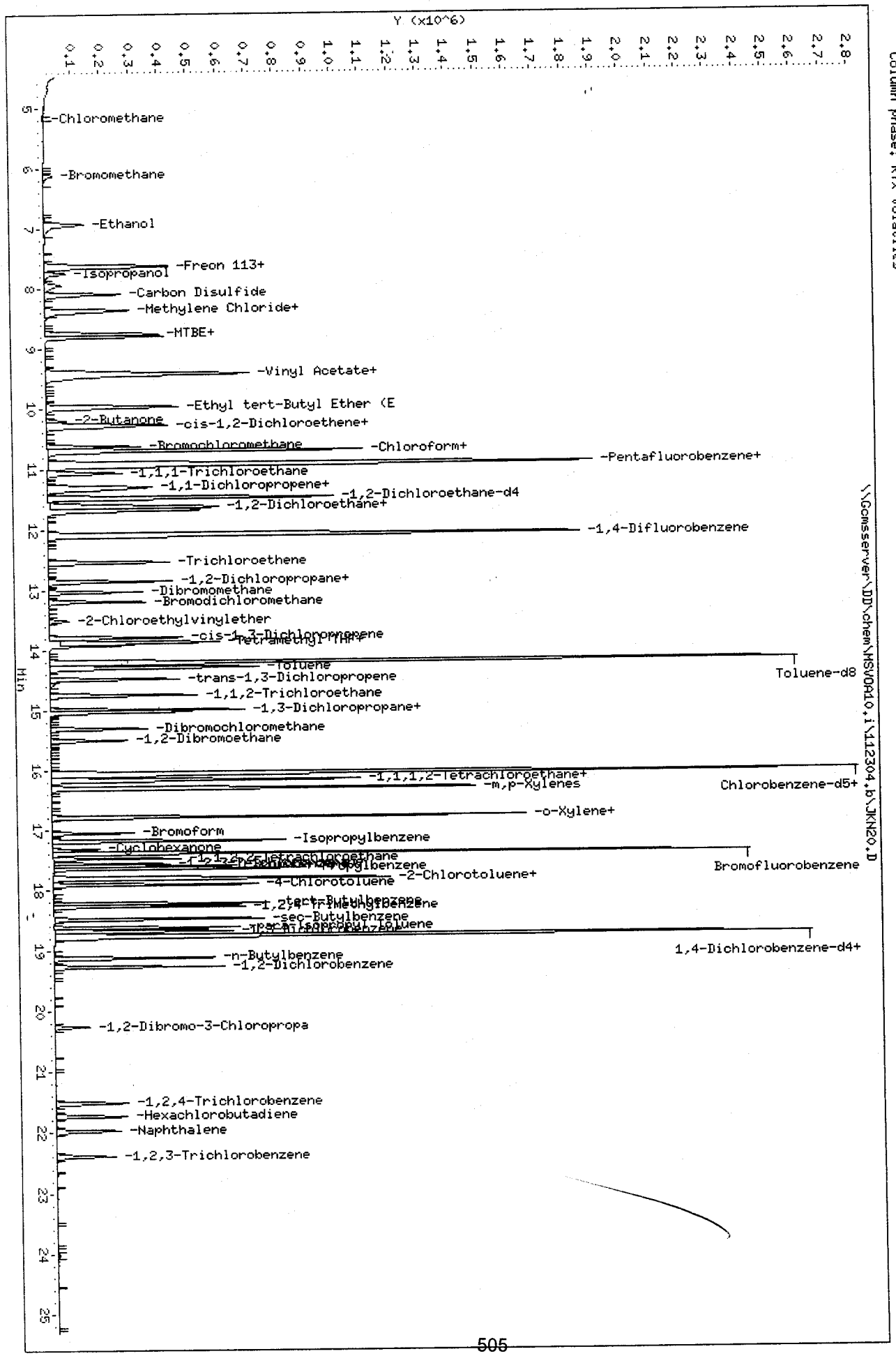
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
*	27 Pentafluorobenzene	168	10.918	10.923	(1.000)	1568836	50.0000	
$	28 Dibromofluoromethane	113	10.938	10.933	(1.002)	905688	49.5519	49.5519
	29 1,1,1-Trichloroethane	97	11.066	11.071	(1.014)	245777	25.9341	25.9341
	30 1,1-Dichloropropene	75	11.303	11.307	(0.935)	252688	24.6445	24.6444
	31 Carbon Tetrachloride	117	11.342	11.347	(0.938)	194627	26.0337	26.0337
$	32 1,2-Dichloroethane-d4	65	11.480	11.475	(0.949)	853957	48.7194	48.7194
	33 1,2-Dichloroethane	62	11.599	11.593	(0.959)	259475	25.3445	25.3444
	34 Benzene	78	11.638	11.643	(0.962)	803987	25.7462	25.7462
	35 Methyl tert-Amyl Ether (TAME)	73	11.687	11.692	(0.967)	616985	26.4337	26.4336
*	36 1,4-Difluorobenzene	114	12.092	12.096	(1.000)	2389488	50.0000	
	37 Trichloroethene	95	12.536	12.540	(1.037)	200818	25.6769	25.6768
	38 1,2-Dichloropropane	63	12.861	12.856	(1.064)	236425	24.6784	24.6783
$	39 Trifluorotoluene	146	12.851	12.846	(1.063)	3898	0.37447	0.3744
	40 Dibromomethane	93	13.029	13.033	(1.077)	163836	25.6646	25.6645
	41 Bromodichloromethane	83	13.196	13.191	(1.091)	267563	26.8279	26.8279
	42 2-Chloroethylvinylether	63	13.512	13.516	(1.117)	38116	6.06321	6.0632
	43 cis-1,3-Dichloropropene	75	13.788	13.793	(1.140)	338209	25.3427	25.3427
	44 Tetramethyl THF	43	13.877	13.871	(1.148)	539967	28.9902	28.9901
	45 4-Methyl-2-Pentanone	43	13.926	13.921	(1.152)	289923	24.3555	24.3554
$	46 Toluene-d8	98	14.202	14.207	(1.175)	2380358	49.8565	49.8564
	47 Toluene	92	14.291	14.295	(1.182)	449907	25.4175	25.4174
	48 trans-1,3-Dichloropropene	75	14.488	14.493	(1.198)	291487	24.3937	24.3937
	49 1,1,2-Trichloroethane	85	14.754	14.759	(1.220)	115818	26.9365	26.9365
	50 1,3-Dichloropropane	76	14.991	14.986	(0.934)	329248	25.8070	25.8069
	51 2-Hexanone	43	14.991	14.996	(0.934)	189310	27.4523	27.4523
	52 Tetrachloroethene	166	15.031	15.035	(0.937)	179428	25.4503	25.4502
	53 Dibromochloromethane	129	15.307	15.311	(0.954)	210717	26.4756	26.4755
	54 1,2-Dibromoethane	107	15.494	15.499	(1.281)	221337	25.9139	25.9138
*	55 Chlorobenzene-d5	117	16.046	16.051	(1.000)	1942213	50.0000	
	56 Chlorobenzene	112	16.086	16.080	(1.002)	500493	25.3520	25.3519
	57 1,1,1,2-Tetrachloroethane	131	16.145	16.149	(1.006)	170692	25.7962	25.7962
	58 Ethylbenzene	91	16.165	16.169	(1.007)	838290	25.7704	25.7703
	59 m,p-Xylenes	106	16.303	16.297	(1.016)	583980	51.1002	51.1002
	60 o-Xylene	106	16.786	16.781	(1.046)	281647	25.5737	25.5736
	61 Styrene	104	16.786	16.791	(1.046)	505604	27.4140	27.4139
	62 Bromoform	173	17.052	17.057	(1.063)	147475	25.2139	25.2138
	63 Isopropylbenzene	105	17.180	17.185	(0.916)	633916	23.7885	23.7884
	64 Cyclohexanone_	55	17.319	17.323	(0.924)	83508	134.016	134.0157
$	65 Bromofluorobenzene	95	17.388	17.382	(0.927)	1004722	50.2438	50.2438
	66 1,1,2,2-Tetrachloroethane	83	17.476	17.481	(0.932)	275273	25.6613	25.6613
	67 1,2,3-Trichloropropane	110	17.565	17.560	(0.937)	65772	26.2698	26.2698
	68 Bromobenzene	156	17.614	17.609	(0.940)	210100	26.9393	26.9393
	69 Propylbenzene	91	17.644	17.648	(0.941)	815568	25.6534	25.6533
	70 2-Chlorotoluene	91	17.802	17.796	(0.950)	570539	26.2111	26.2111
	71 1,3,5-Trimethylbenzene	105	17.822	17.816	(0.951)	477819	26.3972	26.3971
	72 4-Chlorotoluene	91	17.910	17.915	(0.955)	509442	25.8589	25.8589
	73 tert-Butylbenzene	119	18.226	18.230	(0.972)	425178	26.2341	26.2340
	74 1,2,4-Trimethylbenzene	105	18.275	18.270	(0.975)	455289	26.9035	26.9035
	75 sec-Butylbenzene	105	18.482	18.477	(0.986)	640928	26.2436	26.2435
	76 para-Isopropyl Toluene	119	18.620	18.615	(0.993)	433192	25.1389	25.1389
	77 1,3-Dichlorobenzene	146	18.679	18.684	(0.996)	317182	25.9040	25.9039
*	78 1,4-Dichlorobenzene-d4	152	18.749	18.753	(1.000)	846193	50.0000	
	79 1,4-Dichlorobenzene	146	18.778	18.783	(1.002)	330154	25.7748	25.7747
	80 n-Butylbenzene	91	19.113	19.118	(1.019)	428945	26.2917	26.2916

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Report Date: 24-Nov-2004 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
81 1,2-Dichlorobenzene	146	19.261	19.266	(1.027)	312101	26.1372	26.1371
82 1,2-Dibromo-3-Chloropropane	75	20.257	20.252	(1.080)	41884	25.9072	25.9071
83 1,2,4-Trichlorobenzene	180	21.510	21.514	(1.147)	122237	27.0672	27.0671
84 Hexachlorobutadiene	225	21.727	21.731	(1.159)	72504	27.2744	27.2743
85 Naphthalene	128	21.963	21.968	(1.171)	273088	27.1980	27.1980
86 1,2,3-Trichlorobenzene	180	22.388	22.382	(1.194)	110537	27.5810	27.5810

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Date : 24-NOV-2004 01:18
Client ID: DYNA F&T
Sample Info: ICV,04WS1940,10000X,04WS1968,10000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494472916019 Filename : jkn19 Injected : 24-NOV-2004 00:45
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04WS2093 (10000X), 04WS2096C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	25.00000	19.18040	ug/L	-23	30	!v-
Chloromethane	25.00000	19.56640	ug/L	-22	30	!v-
Vinyl Chloride	25.00000	22.26520	ug/L	-11	20	
Bromomethane	25.00000	27.43160	ug/L	10	30	
Chloroethane	25.00000	23.60940	ug/L	-6	30	
Trichlorofluoromethane	25.00000	26.72630	ug/L	7	30	
Dibromofluoromethane	50.00000	49.67960	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	48.89310	ug/L	-2	30	
Toluene-d8	50.00000	49.98970	ug/L	0	30	
Bromofluorobenzene	50.00000	51.98220	ug/L	4	30	

ISTD (ICAL=jkn16)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1560741	1588164	1.76	10.91	10.92	0.01
1,4-Difluorobenzene	2406782	2450382	1.81	12.09	12.09	0.00
Chlorobenzene-d5	1964862	2005877	2.09	16.05	16.05	0.00
1,4-Dichlorobenzene-d4	876337	858235	-2.07	18.75	18.75	0.00

!=warning -=low bias v=ICV
Page 1 of 1

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Report Date: 24-Nov-2004 11:14

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 00:45 MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICV,04WS2093,10000X
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target Quant Type: ISTD
Cal Date : 24-NOV-2004 00:11 Cal File: JKN18.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

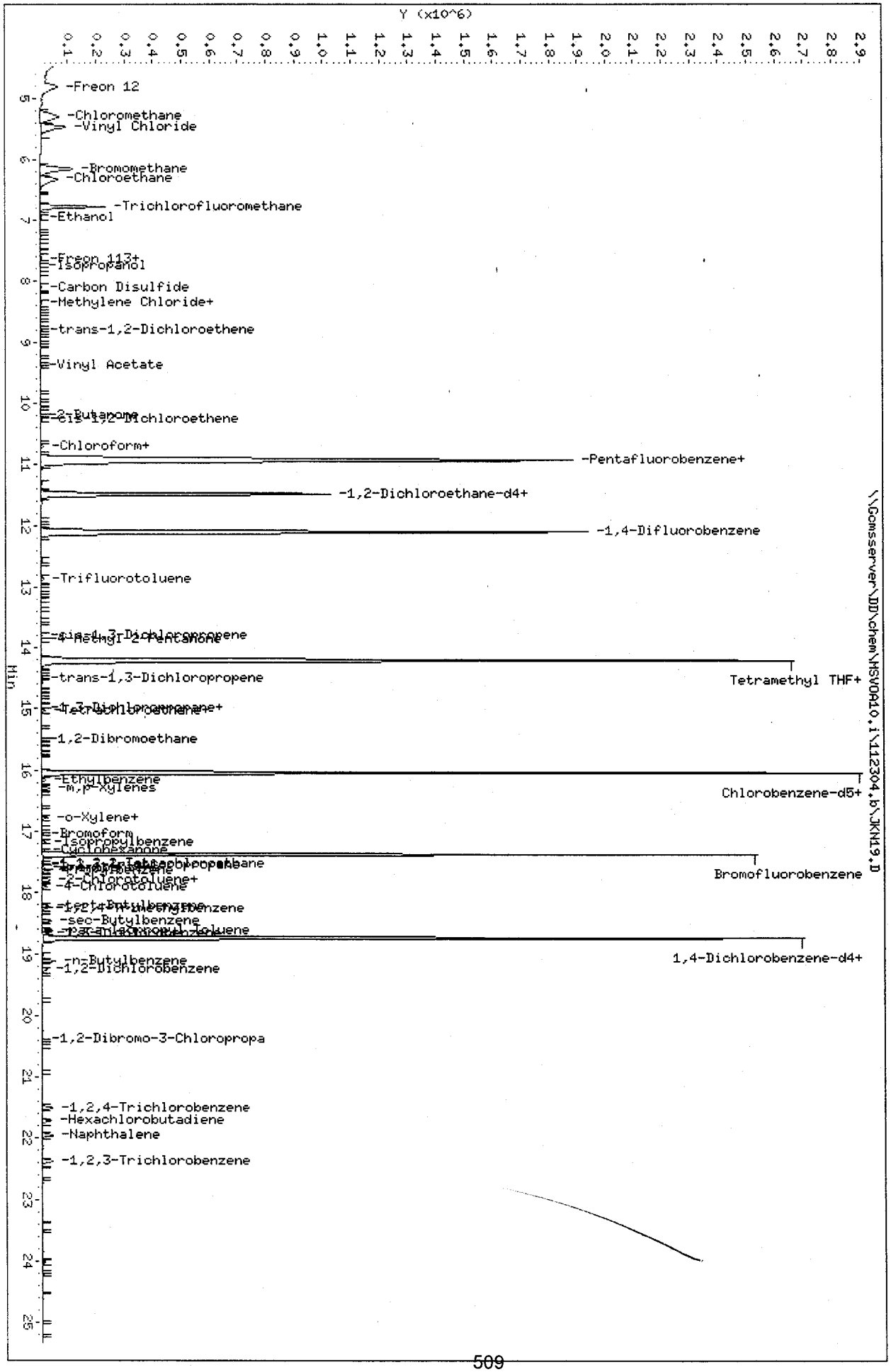
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	1 Freon 12	85	4.813	4.808	(0.441)	177580	19.1804	19.1803
	2 Chloromethane	50	5.296	5.292	(0.485)	280905	19.5664	19.5663
	3 Vinyl Chloride	62	5.464	5.459	(0.500)	276522	22.2652	22.2651
	4 Bromomethane	94	6.154	6.150	(0.564)	204564	27.4316	27.4316
	5 Chloroethane	64	6.312	6.327	(0.578)	171913	23.6094	23.6093
	6 Trichlorofluoromethane	101	6.775	6.771	(0.621)	281019	26.7263	26.7263
	7 Ethanol	45	6.933	6.929	(0.635)	7056	60.6189	60.6188
	8 Freon 113	101	7.623	7.609	(0.698)	890	0.14045	0.1404
	9 Acetone	43	7.653	7.629	(0.701)	3440	1.11716	1.1171
	10 1,1-Dichloroethene	96	7.633	7.639	(0.699)	1321	0.20243	0.2024
	11 Isopropanol	45	7.742	7.737	(0.709)	3598	6.53406	6.5340
	12 Carbon Disulfide	76	8.097	8.102	(0.742)	9500	0.35958	0.3595
	13 Methylene Chloride	84	8.373	8.359	(0.767)	3219	0.35714	0.3571
	14 tert-Butyl Alcohol (TBA)	59	8.353	8.359	(0.765)	1945	2.78903	2.7890
	16 trans-1,2-Dichloroethene	96	8.787	8.793	(0.805)	2154	0.26687	0.2668
	17 Vinyl Acetate	43	9.369	9.374	(0.858)	3564	0.14851	0.1485
	21 2-Butanone	43	10.207	10.193	(0.935)	1340	0.27034	0.2703
	22 cis-1,2-Dichloroethene	96	10.257	10.262	(0.939)	1457	0.16385	0.1638
	25 Chloroform	83	10.700	10.696	(0.980)	1426	0.10358	0.1035
	26 Tetrahydrofuran	42	10.720	10.706	(0.982)	6929	2.42512	2.4251
*	27 Pentafluorobenzene	168	10.917	10.923	(1.000)	1588164	50.0000	
$	28 Dibromofluoromethane	113	10.937	10.933	(1.002)	919208	49.6796	49.6795

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Report Date: 24-Nov-2004 11:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
29 1,1,1-Trichloroethane	97	11.065	11.071	(1.014)	1590	0.16573	0.1657
$ 32 1,2-Dichloroethane-d4	65	11.479	11.475	(0.949)	878841	48.8931	48.8931
34 Benzene	78	11.637	11.643	(0.962)	5868	0.18324	0.1832
* 36 1,4-Difluorobenzene	114	12.091	12.096	(1.000)	2450382	50.0000	
$ 39 Trifluorotoluene	146	12.840	12.846	(1.062)	6491	0.60807	0.6080
43 cis-1,3-Dichloropropene	75	13.797	13.793	(1.141)	2189	0.15995	0.1599
44 Tetramethyl THF	43	14.201	13.871	(1.175)	14507	0.75951	0.7595
45 4-Methyl-2-Pentanone	43	13.876	13.921	(1.148)	1301	0.10658	0.1065
$ 46 Toluene-d8	98	14.201	14.207	(1.175)	2447543	49.9897	49.9896
47 Toluene	92	14.290	14.295	(1.182)	4763	0.26240	0.2623
48 trans-1,3-Dichloropropene	75	14.497	14.493	(1.199)	2060	0.16811	0.1681
50 1,3-Dichloropropane	76	14.980	14.986	(0.934)	1449	0.10997	0.1099
51 2-Hexanone	43	14.980	14.996	(0.934)	2116	0.29711	0.2971
52 Tetrachloroethene	166	15.040	15.035	(0.937)	4789	0.65772	0.6577
53 Dibromochloromethane	129	15.030	15.311	(0.937)	3961	0.48188	0.4818
54 1,2-Dibromoethane	107	15.503	15.499	(1.282)	1101	0.12570	0.1257
* 55 Chlorobenzene-d5	117	16.045	16.051	(1.000)	2005877	50.0000	
56 Chlorobenzene	112	16.085	16.080	(1.002)	7436	0.36471	0.3647
58 Ethylbenzene	91	16.164	16.169	(1.007)	12848	0.38243	0.3824
59 m,p-Xylenes	106	16.302	16.297	(1.016)	9946	0.84269	0.8426
60 o-Xylene	106	16.785	16.781	(1.046)	3464	0.30455	0.3045
61 Styrene	104	16.785	16.791	(1.046)	6563	0.34455	0.3445
62 Bromoform	173	17.051	17.057	(1.063)	1364	0.22580	0.2258
63 Isopropylbenzene	105	17.180	17.185	(0.916)	14020	0.51874	0.5187
64 Cyclohexanone_	55	17.318	17.323	(0.924)	3681	5.82448	5.8244
$ 65 Bromofluorobenzene	95	17.387	17.382	(0.927)	1054276	51.9822	51.9821
66 1,1,2,2-Tetrachloroethane	83	17.475	17.481	(0.932)	2364	0.21728	0.2172
67 1,2,3-Trichloropropane	110	17.554	17.560	(0.936)	346	0.13626	0.1362
68 Bromobenzene	156	17.613	17.609	(0.940)	3140	0.39697	0.3969
69 Propylbenzene	91	17.643	17.648	(0.941)	28414	0.88121	0.8812
70 2-Chlorotoluene	91	17.801	17.796	(0.950)	13984	0.63342	0.6334
71 1,3,5-Trimethylbenzene	105	17.821	17.816	(0.951)	15505	0.84456	0.8445
72 4-Chlorotoluene	91	17.909	17.915	(0.955)	15349	0.76817	0.7681
73 tert-Butylbenzene	119	18.225	18.230	(0.972)	13470	0.81946	0.8194
74 1,2,4-Trimethylbenzene	105	18.274	18.270	(0.975)	15033	0.87585	0.8758
75 sec-Butylbenzene	105	18.481	18.477	(0.986)	30549	1.23332	1.2333
76 para-Isopropyl Toluene	119	18.619	18.615	(0.993)	23667	1.35417	1.3541
77 1,3-Dichlorobenzene	146	18.688	18.684	(0.997)	12354	0.99478	0.9947
* 78 1,4-Dichlorobenzene-d4	152	18.748	18.753	(1.000)	858235	50.0000	
79 1,4-Dichlorobenzene	146	18.777	18.783	(1.002)	14307	1.10126	1.1012
80 n-Butylbenzene	91	19.122	19.118	(1.020)	34983	2.11416	2.1141
81 1,2-Dichlorobenzene	146	19.260	19.266	(1.027)	10433	0.86146	0.8614
82 1,2-Dibromo-3-Chloropropane	75	20.256	20.252	(1.080)	655	0.39946	0.3994
83 1,2,4-Trichlorobenzene	180	21.509	21.514	(1.147)	19176	4.18660	4.1866
84 Hexachlorobutadiene	225	21.726	21.731	(1.159)	10181	3.77613	3.7761
85 Naphthalene	128	21.972	21.968	(1.172)	48009	4.71434	4.7143
86 1,2,3-Trichlorobenzene	180	22.387	22.382	(1.194)	20800	5.11716	5.1171

Data File: \\Comsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Date : 24-NOV-2004 00:45
Client ID: DYNA P&T
Sample Info: ICV,04WS2093,10000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

SDG # 176662B

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
BB3GW100	176662-010
BB3GW100RB100	176662-013

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/7/05
Operations Manager

Signature: _____ Date: 1/6/05
Project Manager

NELAP # 01107CA

Page 1 of ___

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**176662B**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**12/15/04**
Samples Received:	**12/15/04**

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 12/15/04. The sample was received cold and intact.

TPH-Purgeables by GC (EPA 8015B):
High surrogate recovery was observed for trifluorotoluene (FID) in the LCS the MS for batch 97486. High surrogate recovery was observed for bromofluorobenzene (FID) in the MS/MSD for batch 97486. The parent sample was not a project sample. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Metals (EPA 6020)
High % difference was observed for calcium in the serial dilution of LF4GW103 (lab # 176662-001). No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

176662

Treadwell&Rollo

Environmental and Geotechnical Consultant

555 Montgomery Street, Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040/Fax: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

Page ___ of ___

Site Name: Presidio
Job Number: 2893
Project Manager\Cont_ct: David Dixon
Frim & Samplers: BTS | Mike Toll & Morgan Gillies
Recorder (Signature Required): [signature]

Presidio Trust Project or Work Order Number:

Turnaround Time Standard

Analysis Requested

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. of Containers/ Preservation: HCL	H_2SO_4	HNO_3	Other	TPHg (8015m)[1]	TPHd (8015m)[1]	TPHfuel oil (8015m)[1]	VOCs(8260B)	BTEX (8021B)	PAHs(8310)	SVOCs(8270C)	OCPs(8081/8082)	Chlor Herbs (8151A)	Dis. Metals[2] (6010)	Dis. Metals[2] except Hg	TDS (160.1)	Hex Cr (7196A)	Dissolv Pb (7470)	Cyanide (335.2)	Sulfide (376.2)	General Chemistry[3]	Hold	Remarks
-1 LF4GW103	12/14/04	1125			X		3		1	3				X		X				X		X					X		
-2 LF4GW104		1210			X		3		1	3				X		X				X		X					X		
-3 LF4GW105		1255			X		3		1	3				X		X				X		X					X		
-4 LF4GW106		1050			X		3		1	3				X		X				X		X					X		
-5 LF5GW102		1505			X		3		1	4	X	X	X					X		X		X					X		
-6 LF5GW103		1543			X		3		1	4	X	X	X					X		X		X					X		
-7 LF5GW104		1610			X		3		1	4	X	X	X					X		X		X					X		

Notes: [1] Use EPA 3630A Silica Gel Cleanup Step. [2] Dissolved metals: Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Th, Vn, and An. [3] Alkalinity, Bicarbonate, Carbonate, Chloride, Flouride, Nitrate/Nitrite, and Sulfate

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/15/04		[signature]	12/15/04	1045
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Note.:

Method of Shipment ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name) ___

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 1388

174662

Treadwell&Rollo

Environmental and Geotechnical Consultant

555 Montgomery Street, Suite 1300, San Francisco, CA 94111
Ph: 415.955.9040/Fax: 415.955.9041

CHAIN OF CUSTODY RECORD

PRESIDIO OF SAN FRANCISCO

Page ___ of ___

Site Name: PRESIDIO
Job Number: 2893
Project Manager\Contact: David Dixon
Frim & Samplers: BIS SUCHEON SUNG
Recorder (Signature Required):

Presidio Trust Project or Work Order Number:

Turnaround Time Standard

Analysis Requested

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. of Containers/ Presevation: HCL	H_2SO_4	HNO_3	Other	TPHg (8015m)[1]	TPHd (8015m)[1]	TPHfuel oil (8015m)[1]	VOCs(8260B)	BTEX (8021B) MTBE	PAHs(8310)	SVOCs(8270C)	OCP/PCBs(8081/8082)	Chlor Herbs (8151A)	Dis. Metals[2] (6010) (23)	Dis. Metals[2] ~~except Hg~~ (22)	TDS (160.1)	Hex Cr (7196A)	Dissolv Pb (7470)	Cyanide (335.2)	Sulfide (376.2)	General Chemistry[3]	TOTAL METALS (LNOT FILTERED) (23)	Remarks
-8 LF10GW100	12/14/04	1405			X		3		1	2	X	X	X		X					X		X					X		
~~LF10GW100RB~~		1420			X		3		1	2	X	X	X		X					X		X					X		
-9 LF10SD01		1245			X		3		2	2	X	X	X		X					X		X					X	X	
-10 BB3GW100		1515			X		3		1	2	X	X	X								X	X					X		
~~BB3GW100RB~~		1535			X		3		1	2	X	X	X								X	X					X		
-11 TB12141A	↓	—			X		2							X															
-12 LF10GW100RBSD01	12/14/04	14:20			X		3																						Logged in on "HOLD"
Jam 12-15-04																													
-13 BB3GW100RB100	12/14/04	15:35																											Logged in on "HOLD"

Notes: [1] Use EPA 3630A Silica Gel Cleanup Step. [2] Dissolved metals: Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Ag, Na, Se, Th, Vn, and An. [3] Alkalinity, Bicarbonate, Carbonate, Chloride, Flouride, Nitrate/Nitrite, and Sulfate

Relinquished by: (Signature)	Date 12/15/04	Time	Received by: (Signature)	Date 12/15/04	Time 1045
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Note.:

Method of Shipment ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: **1433**

Subject: RE: C&T Login Summary for 176662
From: "Joshua Graber" <jdgraber@treadwellrollo.com>
Date: Thu, 16 Dec 2004 12:54:33 -0800
To: "Steve Stanley" <steve@ctberk.com>

Thanks Steve!

I have another request and I hope it is easy for you to do. Could you separate the BB3GW100 and the BB3GW100RB100 samples into their own SDGs? The Trust is looking at this data apart from the GWM Project and would like this data to be validated separately.

Also, Blaine Tech is sampling 4 seep locations today and we would like to have these locations (BB3SW100 through BB3SW103) reported separately as well, for the same reasons as above.

I'm sorry for the inconvenience.

Please let me know if there is any problem.

Thanks!
Josh

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Thursday, December 16, 2004 12:34 PM
To: Joshua Graber
Cc: Colleen Haraden; Carole Nuttall
Subject: C&T Login Summary for 176662

C&T Login Summary for 176662

Project:

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

176662 ZAW 12-15-04

Login#: ~~176656~~ Date Received: 12-15-04 Number of Coolers: 3
Client: Treadwell & Rollo Project: 2893.12

A. Preliminary Examination Phase
Date Opened: 12-15-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES (NO)
   If YES, enter carrier name and airbill number: _____
2. Were custody seals on outside of cooler? ..... (YES) NO
   How many and where? 1 over cooler lip Seal date: 12-15-04 Seal name: Illegible
3. Were custody seals unbroken and intact at the date and time of arrival? ..... (YES) NO
4. Were custody papers dry and intact when received? ..... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO *
6. Did you sign the custody papers in the appropriate place? ..... (YES) NO
7. Was project identifiable from custody papers? ..... (YES) NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... (YES) NO
   Type of ice: Wet Temperature: 3.2 3.6 3.7

B. Login Phase
Date Logged In: 12-15-04 By (print): Troy Windsor (sign) Troy E Windsor

1. Describe type of packing in cooler: In ziploc type bags
2. Did all bottles arrive unbroken? ..... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? ..... (YES) NO
4. Did bottle labels agree with custody papers? ..... (YES) NO
5. Were appropriate containers used for the tests indicated? ..... (YES) NO
6. Were correct preservatives added to samples? ..... (YES) NO
7. Was sufficient amount of sample sent for tests indicated? ..... (YES) NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below ..... (YES) NO
9. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, give details below.
   Who was called? _____ By whom? _____ Date: _____

Additional Comments:
* A5 - ~~One~~ Two samples ~~was~~ were not listed.
ZAW 12-15-04

Filename: F:\qc\forms\qc\cooler.doc Rev. 1, 4/95

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3GW100	Batch#:	97486
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/15/04
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	65-135
Bromofluorobenzene (FID)	125	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276305	Batch#:	97486
Matrix:	Water	Analyzed:	12/15/04
Units:	ug/L		

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
MTBE	ND	2.0	EPA 8021B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
Xylene (total)	ND	1.0	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	108	65-135	EPA 8015B
Bromofluorobenzene (FID)	126	65-135	EPA 8015B
Trifluorotoluene (PID)	92	65-135	EPA 8021B
Bromofluorobenzene (PID)	111	65-135	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276307	Batch#:	97486
Matrix:	Water	Analyzed:	12/15/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,128	106	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	142 *	65-135
Bromofluorobenzene (FID)	135	65-135

*= Value outside of QC limits; see narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	97486
MSS Lab ID:	176648-006	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Analyzed:	12/16/04
Diln Fac:	1.000		

Type: MS Lab ID: QC276365

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	43.19	2,000	2,097	103	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137 *	65-135
Bromofluorobenzene (FID)	143 *	65-135

Type: MSD Lab ID: QC276366

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,108	103	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	130	65-135
Bromofluorobenzene (FID)	138 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH
Calnum: 304466014001 Name: tvh Type: (normal) Date: 18-NOV-2004 20:30 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	323_007	304466014007	tvh1	18-NOV-2004 20:30	04WS1982 (1000X), 04WS1966 (5000X)
2	323_008	304466014008	tvh2	18-NOV-2004 21:05	04WS1983 (1000X), 04WS1966 (5000X)
3	323_009	304466014009	tvh3	18-NOV-2004 21:41	04WS1984 (1000X), 04WS1966 (5000X)
4	323_010	304466014010	tvh4	18-NOV-2004 22:17	04WS1985 (2000X), 04WS1966 (5000X)
5	323_011	304466014011	tvh5	18-NOV-2004 22:52	04WS1985 (1000X), 04WS1966 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Gasoline C7-C12	J	2584.4	1778.6	1670.9	2095.6	1820.2	AVRG	R		5.025E-4		ng	1989.9	18	0.995	20	

13

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Calname : tvh
Calnum : 304466014001 Caldate : 18-NOV-2004 Caltype :

ICV 304466014013 (323_013) standards: 04WS2154 (1000X), 04WS1966 (5000X)

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Gasoline C7-C12	J	304466014013	19-NOV-2004	10000.0	10789	ng	8

INITIAL CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH
Calnum: 304485919001 Name: tft/bfb Type: (normal) Date: 02-DEC-2004 11:15 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	337_002	304485919002	tft/bfb 1	02-DEC-2004 11:15	04WS2267 (5000X)
2	337_003	304485919003	tft/bfb 2	02-DEC-2004 11:50	04WS2268 (5000X)
3	337_004	304485919004	tft/bfb 3	02-DEC-2004 12:40	04WS2269 (5000X)
4	337_005	304485919005	tft/bfb 4	02-DEC-2004 13:33	04WS2270 (5000X)
5	337_006	304485919006	tft/bfb 5	02-DEC-2004 14:09	04WS2271 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Trifluorotoluene (FID)	J	1535.1	1610.6	1524.7	1570.3	1744.3	AVRG	R		6.262E-4		ng	1597.0	6	0.995	20	
Bromofluorobenzene (FID)	J	892.38	918.87	886.49	1000.2	1059.7	AVRG	R		0.001051		ng	951.53	8	0.995	20	
Trifluorotoluene (PID)	K	945.66	968.79	952.01	978.49	977.20	AVRG	R		0.001037		ng	964.43	2	0.995	20	
Bromofluorobenzene (PID)	K	1825.7	1904.5	1852.2	1942.8	1968.3	AVRG	R		5.267E-4		ng	1898.7	3	0.995	20	
Trifluorotoluene (PID)	L	367.74	403.17	406.42	427.25	439.61	AVRG	R		0.002446		ng	408.84	7	0.995	20	
Bromofluorobenzene (PID)	L	730.89	792.62	785.69	835.20	849.12	AVRG	R		0.001252		ng	798.71	6	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : QC276307 IDF : 1.0
Seqnum : 304504506003 Filename : 350_003 Injected : 15-DEC-2004 09:37
Caltype :

Standards: 04WS2235 (1000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2117.2	10000.00	10639.30	ng	6	15	u
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2270.6	450.0000	639.8027	ng	42	15	c+ u
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1287.2	450.0000	608.7387	ng	35	15	c+ u
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	945.44	450.0000	441.1407	ng	-2	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	717.25	450.0000	789.4545	ng	75	15	c+
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2237.7	450.0000	530.3424	ng	18	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	1012.9	450.0000	570.6897	ng	27	15	c+

Final Pay

Np

BD 12/6

IN-House QC Limits

TFT-FID-W
70-141 % Rec.

BFB-FID-W
80-143 % Rec.

+=high bias c=CCV u=use
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Run Name : tvh IDF : 1.0
Seqnum : 304504506013 Filename : 350_013 Injected : 15-DEC-2004 16:53
Caltype :

Standards: 04WS2235 (666.7X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2039.6	15000.00	15374.36	ng	2	15	
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2162.9	450.0000	609.4554	ng	**35**	15	c+
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1156.5	450.0000	546.9414	ng	**22**	15	c+
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	1077.9	450.0000	502.9345	ng	12	15	
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	1886.6	450.0000	447.1354	ng	-1	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	666.60	450.0000	733.7147	ng	**63**	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	897.54	450.0000	505.6861	ng	12	15	

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04
Seqnum : 304504506026

Run Name : tvh
Filename : 350_026

IDF : 1.0
Injected : 16-DEC-2004 00:36
Caltype :

Standards: 04WS2235 (2000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2123.0	5000.000	5334.274	ng	7	15	
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2035.0	450.0000	573.4297	ng	**27**	15	c+
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1168.4	450.0000	552.5818	ng	**23**	15	c+
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	894.17	450.0000	417.2153	ng	-7	15	
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2034.0	450.0000	482.0676	ng	7	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	514.88	450.0000	566.7123	ng	**26**	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	899.97	450.0000	507.0519	ng	13	15	

Poly

MP

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT FOR 176662 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04
Seqnum : 304504506034

Run Name : tvh
Filename : 350_034

IDF : 1.0
Injected : 16-DEC-2004 05:22
Caltype :

Standards: 04WS2235 (1000X), 04WS2266 (5000X)

Analyte	Ch	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Gasoline C7-C12	J	304466014001	18-NOV-2004	1989.9	2048.7	10000.00	10295.25	ng	3	15	
Trifluorotoluene (FID)	J	304485919001	02-DEC-2004	1597.0	2155.9	450.0000	607.4816	ng	**35**	15	c+
Bromofluorobenzene (FID)	J	304485919001	02-DEC-2004	951.53	1249.6	450.0000	590.9691	ng	**31**	15	c+
Trifluorotoluene (PID)	K	304485919001	02-DEC-2004	964.43	1129.5	450.0000	527.0398	ng	**17**	15	c+
Bromofluorobenzene (PID)	K	304485919001	02-DEC-2004	1898.7	2184.5	450.0000	517.7423	ng	15	15	
Trifluorotoluene (PID)	L	304485919001	02-DEC-2004	408.84	694.10	450.0000	763.9817	ng	**70**	15	c+
Bromofluorobenzene (PID)	L	304485919001	02-DEC-2004	798.71	979.28	450.0000	551.7356	ng	**23**	15	c+

+=high bias c=CCV
Page 1 of 1

PROJECT GC04 Byland Cy Bel

Notebook No. Bc 1944

Continued From Page

89

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 18-NOV-2004

Sequence: 304466014 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	323_001	CCV/LCS	QC272860	96636	Soil	18-NOV-2004 14:54	1.0					1 2 PASS	
002	323_002	CCV	minsp	96636		18-NOV-2004 15:37	1.0					3 2	
003	323_003	CCV	minsp	96636		18-NOV-2004 16:12	1.0					3 2	
004	323_004	BLANK	QC272859	96636	Soil	18-NOV-2004 16:48	1.0					2	
005	323_005	X	ib			18-NOV-2004 19:19	1.0					2	
006	323_006	X	ib			18-NOV-2004 19:54	1.0					2	
007	323_007	ICAL	tvh1			18-NOV-2004 20:30	1.0					4 2 PASS/USE	
008	323_008	ICAL	tvh2			18-NOV-2004 21:05	1.0					5 2	
009	323_009	ICAL	tvh3			18-NOV-2004 21:41	1.0					6 2	
010	323_010	ICAL	tvh4			18-NOV-2004 22:17	1.0					7 2	
011	323_011	ICAL	tvh5			18-NOV-2004 22:52	1.0					7 2	
012	323_012	X	ib			18-NOV-2004 23:28	1.0					2	
013	323_013	ICV	tvh			19-NOV-2004 00:04	1.0	1	5000			1 2 PASS/USE 1:F3BZME=953.541	
014	323_014	X	crbmkr			19-NOV-2004 00:39	1.0					8 9 2	
015	323_015	X	ib			19-NOV-2004 01:15	1.0					2	
016	323_016	X	ib			19-NOV-2004 06:53	1.0					2	
017	323_017	ICAL	tft/bfb 1			19-NOV-2004 07:29	1.0					10 PASS/USE	
018	323_018	ICAL	tft/bfb 2			19-NOV-2004 08:05	1.0					11	
019	323_019	ICAL	tft/bfb 3			19-NOV-2004 08:47	1.0					12	
020	323_020	ICAL	tft/bfb 4			19-NOV-2004 09:29	1.0					13	
021	323_021	ICAL	tft/bfb 5			19-NOV-2004 10:16	1.0					14	

Stds used: 1=04WS2154 2=04WS1986 3=04WS1162 4=04WS1982 5=04WS1983 6=04WS1984 7=04WS1985 8=02SS420 9=02SS421 10=04WS1886 11=04WS1887 12=04WS1888 13=04WS1889 14=04WS1890

Analyst: Date: 11.19.04

Page 1 of 1

11/19/04

Signed Date 11.19.04

Read and Understood By

Signed Date 11/19/04

Continued on Page

Seq - 3272 on Notbg.

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 304504506 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 15-DEC-2004
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	350_001	X	ib			15-DEC-2004 08:26	1.0						1	
002	350_002	CCV/LCS	QC276306	97486	Water	15-DEC-2004 09:01	1.0	1		5000			2 1 Pass	
003	350_003	CCV/LCS	QC276307	97486	Water	15-DEC-2004 09:37	1.0		2	5000			3 1	
004	350_004	BLANK	QC276305	97486	Water	15-DEC-2004 10:25	1.0	6		5000			1 LY	
005	350_005	X	176639-007	97486	Water	15-DEC-2004 11:07	1.0			5000	A	10	1 Not used	
006	350_006	SAMPLE	176639-007	97486	Water	15-DEC-2004 11:54	1.0			5000			1	
007	350_007	SAMPLE	176648-002	97486	Water	15-DEC-2004 12:30	1.0			5000			1	
008	350_008	X	176632-009	97486	Water	15-DEC-2004 13:06	1.0			5000	B	10	1 Not used	6:EB2=3526.39
009	350_009	SAMPLE	176632-009	97486	Water	15-DEC-2004 14:18	5.0	1		5000			1	
010	350_010	SAMPLE	176632-008	97486	Water	15-DEC-2004 14:53	1.0	1		5000			1	
011	350_011	SAMPLE	176648-003	97486	Water	15-DEC-2004 15:42	1.0			5000	A	10	1	
012	350_012	CCV	mbtxe	97486		15-DEC-2004 16:17	1.0	1		5000			4 1 Pass	
013	350_013	CCV	tvh	97486		15-DEC-2004 16:53	1.0			5000			3 1	
014	350_014	SAMPLE	176662-008	97486	Water	15-DEC-2004 17:29	1.0	2		5000	A	10	1	
015	350_015	SAMPLE	176662-009	97486	Water	15-DEC-2004 18:04	1.0	2		5000			1	
016	350_016	SAMPLE	176664-004	97486	Water	15-DEC-2004 18:40	1.0			5000			1	
017	350_017	SAMPLE	176664-002	97486	Water	15-DEC-2004 19:16	1.0			5000			1	
018	350_018	SAMPLE	176664-003	97486	Water	15-DEC-2004 19:51	1.0			5000			1	
019	350_019	SAMPLE	176662-005	97486	Water	15-DEC-2004 20:27	1.0	1		5000			1	
020	350_020	SAMPLE	176662-006	97486	Water	15-DEC-2004 21:03	1.0	1		5000			1	
021	350_021	SAMPLE	176662-007	97486	Water	15-DEC-2004 21:38	1.0	1		5000			1	
022	350_022	SAMPLE	176662-010	97486	Water	15-DEC-2004 22:14	1.0	1		5000			1	
023	350_023	SAMPLE	176664-001	97486	Water	15-DEC-2004 22:49	1.0			5000			1	
024	350_024	X	mbtxe	97486		15-DEC-2004 23:25	1.0			5000			4 1 Not used	
025	350_025	CCV	mbtxe	97486		16-DEC-2004 00:01	1.0			5000			4 1 Pass	
026	350_026	CCV	tvh	97486		16-DEC-2004 00:36	1.0			5000			3 1	
027	350_027	X	tvh	97486		16-DEC-2004 01:12	1.0			5000			3 1 Not used	
028	350_028	SAMPLE	176666-001	97486	Water	16-DEC-2004 01:48	1.0			5000	A	10	1	
029	350_029	SAMPLE	176648-004	97486	Water	16-DEC-2004 02:23	1.0			5000			1	
030	350_030	SAMPLE	176648-005	97486	Water	16-DEC-2004 02:59	1.0			5000			1	

Stds used: 1=04WS2266 2=04WS2369 3=04WS2235 4=04WS2151

Analyst: Date: 12.16.4
Page 1 of 2

12/12.16.04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 304504506 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 15-DEC-2004
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	350_031	MSS	176648-006	97486	Water	16-DEC-2004 03:35	1.0	2		5000	A	10	1	
032	350_032	MS	QC276365	97486	Water	16-DEC-2004 04:10	1.0		2	5000			3 1 Pass	
033	350_033	MSD	QC276366	97486	Water	16-DEC-2004 04:46	1.0		2	5000			3 1	
034	350_034	CCV	tvh	97486		16-DEC-2004 05:22	1.0			5000			3 1	
035	350_035	X	tvh	97486		16-DEC-2004 05:57	1.0			5000			3 1 Not used	

Stds used: 1=04WS2266 2=04WS2369 3=04WS2235 4=04WS2151

Analyst: 12/16
Page 2 of 2 Date: 12/16

Continued on Page

Read and Understood By

Signed 12.16.04 Date 21 Signed 12/16/04 Date

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 TVH Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	STOD	F3BZ	BR4F	
176662-005	GC04	12/15/04 20:27	1.0	+		+	+	
176662-006	GC04	12/15/04 21:03	1.0	+		+	+	
176662-007	GC04	12/15/04 21:38	1.0	+		+	+	
176662-008	GC04	12/15/04 17:29	1.0	+		+	+	
176662-009	GC04	12/15/04 18:04	1.0	+		+	+	
176662-010	GC04	12/15/04 22:14	1.0	+		+	+	
QC276305	GC04	12/15/04 10:25	1.0	+		+	+	
QC276306	GC04	12/15/04 09:01	1.0					
QC276307	GC04	12/15/04 09:37	1.0	+		+	+	
QC276365	GC04	12/16/04 04:10	1.0	+		+	+	
QC276366	GC04	12/16/04 04:46	1.0	+		+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97486
Date Started: 15-DEC-2004
Batched by : Micaela M. Perpetuo

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
176632-008			Stellar Environmen	Water	MBTXE, TVH	20-DEC-2004
176632-009			Stellar Environmen	Water	MBTXE, TVH	20-DEC-2004
176639-007			Tan Phung Associat	Water	BTXE, TVH	17-DEC-2004
176648-002			URS Corporation	Water	TVH	28-DEC-2004
176648-003			URS Corporation	Water	TVH	28-DEC-2004
176648-004			URS Corporation	Water	TVH	28-DEC-2004
176648-005			URS Corporation	Water	TVH	28-DEC-2004
176648-006			URS Corporation	Water	TVH	28-DEC-2004
176662-005			Treadwell & Rollo	Water	TVH	28-DEC-2004
176662-006			Treadwell & Rollo	Water	TVH	28-DEC-2004
176662-007			Treadwell & Rollo	Water	TVH	28-DEC-2004
176662-008			Treadwell & Rollo	Water	MBTXE, TVH	28-DEC-2004
176662-009			Treadwell & Rollo	Water	MBTXE, TVH	28-DEC-2004
176662-010			Treadwell & Rollo	Water	TVH	28-DEC-2004
176664-001			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176664-002			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176664-003			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176664-004			LFR Levine Fricke	Water	BTXE, TVH	21-DEC-2004
176666-001			SOMA Environmental	Water	TVH	21-DEC-2004
QC276305	MB			Water		
QC276306	LCS			Water		
QC276307	LCS			Water		
QC276365	MS	of 176648-006		Water		
QC276366	MSD	of 176648-006		Water		

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water

Analyte	Units	GC04 J	GC05 G	GC07 A	GC19 X
Gasoline C6-C10	ug/L	02/03/04 8.8	07/12/04 11	11/10/04 20	12/19/03 10
Gasoline C6-C12	ug/L	02/03/04 9.7	07/12/04 8.5	11/10/04 20	12/19/03 13
Gasoline C7-C12	ug/L	02/03/04 11	07/12/04 4.3	11/10/04 24	12/19/03 13
JP-4 C7-C12	ug/L	02/04/04 4.7	12/04/03 19	02/10/04 5.1	02/09/04 9.7

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	BB3GW100	Batch#:	97722
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	85	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277217	Batch#:	97722
Matrix:	Water	Prepared:	12/21/04
Units:	ug/L	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C12-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	100	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC277218	Batch#:	97722
Matrix:	Water	Prepared:	12/21/04
Units:	ug/L	Analyzed:	12/23/04

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24	2,500	2,005	80	65-135

Surrogate	%REC	Limits
Hexacosane	92	65-135

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	97722
MSS Lab ID:	176683-005	Sampled:	12/15/04
Matrix:	Water	Received:	12/16/04
Units:	ug/L	Prepared:	12/21/04
Diln Fac:	1.000	Analyzed:	12/23/04

Type: MS Lab ID: QC277219

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24	<28.00	2,500	2,158	86	65-135

Surrogate	%REC	Limits
Hexacosane	95	65-135

Type: MSD Lab ID: QC277220

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24	2,500	2,618	105	65-135	19	35

Surrogate	%REC	Limits
Hexacosane	111	65-135

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114491750001 Name: dsl Type: (normal) Date: 06-DEC-2004 12:48 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	341a003	114491750003	dsl10	06-DEC-2004 12:48	04WS1748
2	341a004	114491750004	dsl100	06-DEC-2004 13:18	04WS1747
3	341a005	114491750005	dsl250	06-DEC-2004 13:47	04WS1221
4	341a006	114491750006	dsl500	06-DEC-2004 14:16	04WS1745
5	341a007	114491750007	dsl1000	06-DEC-2004 14:46	04WS1744
6	341a008	114491750008	dsl2500	06-DEC-2004 15:15	04WS1743
7	341a009	114491750009	dsl5000	06-DEC-2004 15:44	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Diesel C12-C24	18379	24186	27245	25337	24468	24098	23515	AVRG R		4.186E-5		mg/L	23890	11	0.995	20	

30

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG R		5.502E-5		mg/L	18175	7	0.995	20	

31

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114506134001 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 12:04 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	351a002	114506134002	hex5	16-DEC-2004 12:04	04WS2042
2	351a003	114506134003	hex10	16-DEC-2004 12:33	04WS2043
3	351a004	114506134004	hex25	16-DEC-2004 13:02	04WS2044
4	351a005	114506134005	hex50	16-DEC-2004 13:31	04WS2045
5	351a006	114506134006	hex75	16-DEC-2004 14:00	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	29511	28377	29932	29897	29504	AVRG R		3.396E-5		mg/L	29444	2	0.995	20	

32

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030001 Name: Diesel Type: (normal) Date: 15-DEC-2004 18:05 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b003	144505030003	ds110	15-DEC-2004 18:05	04WS2298
2	350b004	144505030004	ds1100	15-DEC-2004 18:33	04WS2299
3	350b005	144505030005	ds1250	15-DEC-2004 19:01	04WS2300
4	350b006	144505030006	ds11000	15-DEC-2004 19:29	04WS2302
5	350b007	144505030007	ds12500	15-DEC-2004 19:58	04WS2303
6	350b008	144505030008	ds15000	15-DEC-2004 20:26	04WS2297
7	350b027	144505030027	ds1	16-DEC-2004 14:00	04WS2389

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Diesel C12-C24	14347	19586	18288	18764	17524	18785	18705	AVRG R		5.556E-5		mg/L	18000	10	0.995	20	

33

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030002 Name: Motor Oil Type: (normal) Date: 15-DEC-2004 21:22 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b010	144505030010	mo50	15-DEC-2004 21:22	04WS2172
2	350b011	144505030011	mo250	15-DEC-2004 21:50	04WS2173
3	350b012	144505030012	mo500	15-DEC-2004 22:18	04WS2174
4	350b013	144505030013	mo1000	15-DEC-2004 22:46	04WS2175
5	350b014	144505030014	mo2500	15-DEC-2004 23:14	04WS2176
6	350b015	144505030015	mo5000	15-DEC-2004 23:43	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	12925	13361	13764	12705	11990	7534.8	AVRG R		8.301E-5		mg/L	12047	19	0.995	20	

34

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030003 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 00:39 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b017	144505030017	hex5	16-DEC-2004 00:39	04WS2042
2	350b018	144505030018	hex10	16-DEC-2004 01:07	04WS2043
3	350b019	144505030019	hex25	16-DEC-2004 01:35	04WS2044
4	350b020	144505030020	hex50	16-DEC-2004 02:04	04WS2045
5	350b026	144505030026	hex75	16-DEC-2004 12:15	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	22429	20066	21474	22789	22529	AVRG R		4.575E-5		mg/L	21858	5	0.995	20	

35

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC11A Calname : dsl
Calnum : 114491750001 Caldate : 06-DEC-2004 Caltype :

ICV 114491750011 (341a011) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	114491750011	06-DEC-2004	500.00	468.85	mg/L	-6

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC13B Calname : Diesel
Calnum : 144505030001 Caldate : 15-DEC-2004 Caltype :

ICV 144505030029 (350b029) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	144505030029	16-DEC-2004	500.00	472.33	mg/L	-6

CONTINUING CALIBRATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114516080007	23-DEC-2004 12:23	114491750001	06-DEC-2004	23890	24154	1000.0	1011.1	mg/L	1	15	
GC11A	A	114516080021	23-DEC-2004 19:14	114491750001	06-DEC-2004	23890	23816	250.00	249.23	mg/L	0	15	
GC13B	B	144516104003	23-DEC-2004 11:38	144505030001	15-DEC-2004	18000	18673	500.00	518.70	mg/L	4	15	
GC13B	B	144516104015	23-DEC-2004 17:19	144505030001	15-DEC-2004	18000	18652	1000.0	1036.3	mg/L	4	15	
GC13B	B	144516104028	23-DEC-2004 23:21	144505030001	15-DEC-2004	18000	16757	250.00	232.74	mg/L	-7	15	

CONTINUING CALIBRATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114516080008	23-DEC-2004 12:53	114442646002	02-NOV-2004	18175	19517	500.00	536.90	mg/L	7	15	
GC11A	A	114516080022	23-DEC-2004 19:43	114442646002	02-NOV-2004	18175	19580	500.00	538.64	mg/L	8	15	
GC13B	B	144516104004	23-DEC-2004 12:06	144505030002	15-DEC-2004	12047	13444	500.00	558.00	mg/L	12	15	
GC13B	B	144516104016	23-DEC-2004 17:47	144505030002	15-DEC-2004	12047	12961	500.00	537.95	mg/L	8	15	
GC13B	B	144516104029	23-DEC-2004 23:49	144505030002	15-DEC-2004	12047	13436	500.00	557.66	mg/L	12	15	

CONTINUING CALIBRATION SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114516080007	23-DEC-2004 12:23	114506134001	16-DEC-2004	29444	29615	50.000	50.290	mg/L	1	15	
GC11A	A	114516080021	23-DEC-2004 19:14	114506134001	16-DEC-2004	29444	31464	50.000	53.431	mg/L	7	15	
GC13B	B	144516104003	23-DEC-2004 11:38	144505030003	16-DEC-2004	21858	23454	50.000	53.651	mg/L	7	15	
GC13B	B	144516104015	23-DEC-2004 17:19	144505030003	16-DEC-2004	21858	23162	50.000	52.984	mg/L	6	15	
GC13B	B	144516104028	23-DEC-2004 23:21	144505030003	16-DEC-2004	21858	22089	50.000	50.530	mg/L	1	15	

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114442646 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 02-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	307a001	X	primer			02-NOV-2004 09:26	1.0							
002	307a002	X	ib			02-NOV-2004 09:55	1.0							
003	307a003	CCV	dsl			02-NOV-2004 10:24	1.0	6		3			1	
004	307a004	CCV	mo			02-NOV-2004 10:54	1.0	4		3			2	
005	307a005	ICAL	dsl10			02-NOV-2004 13:24	1.0						3	
006	307a006	ICAL	dsl100			02-NOV-2004 13:53	1.0						4	
007	307a007	ICAL	dsl250			02-NOV-2004 14:22	1.0						5	
008	307a008	ICAL	dsl500			02-NOV-2004 14:52	1.0						6	
009	307a009	ICAL	dsl1000			02-NOV-2004 15:21	1.0						7	
010	307a010	ICAL	dsl2500			02-NOV-2004 15:50	1.0						8	
011	307a011	ICAL	dsl5000			02-NOV-2004 16:20	1.0						9	
012	307a012	X	ib			02-NOV-2004 16:49	1.0							
013	307a013	ICAL	mo50			02-NOV-2004 17:19	1.0						10	
014	307a014	ICAL	mo250			02-NOV-2004 17:48	1.0						11	
015	307a015	ICAL	mo500			02-NOV-2004 18:17	1.0						12	
016	307a016	ICAL	mo1000			02-NOV-2004 18:46	1.0						13	
017	307a017	ICAL	mo2500			02-NOV-2004 19:16	1.0						14	
018	307a018	ICAL	mo5000			02-NOV-2004 19:45	1.0						15	
019	307a019	X	ib			02-NOV-2004 20:14	1.0							
020	307a020	ICAL	hex5			02-NOV-2004 20:43	1.0						16	
021	307a021	ICAL	hex10			02-NOV-2004 21:13	1.0						17	
022	307a022	ICAL	hex25			02-NOV-2004 21:42	1.0						18	
023	307a023	ICAL	hex50			02-NOV-2004 22:11	1.0						19	
024	307a024	ICAL	hex75			02-NOV-2004 22:40	1.0						20	
025	307a025	X	ib			02-NOV-2004 23:09	1.0							
026	307a026	CCV	dsl			02-NOV-2004 23:39	1.0			3			1	
027	307a027	CCV	mo			03-NOV-2004 00:08	1.0			3			2	
028	307a028	ICV	dsl500			03-NOV-2004 00:38	1.0			3			21	

Stds used: 1=04WS1975 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS1208 11=04WS1209 12=04WS1210 13=04WS1211 14=04WS1212 15=04WS1012 16=04WS2042 17=04WS2043 18=04WS2044 19=04WS2045 20=04WS2046 21=04WS2006

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	341a001	X	primer			06-DEC-2004 11:50	1.0				
002	341a002	X	ib			06-DEC-2004 12:19	1.0				
003	341a003	ICAL	dsl10			06-DEC-2004 12:48	1.0	1.0		1	
004	341a004	ICAL	dsl100			06-DEC-2004 13:18	1.0	1.0		2	
005	341a005	ICAL	dsl250			06-DEC-2004 13:47	1.0	1.0		3	
006	341a006	ICAL	dsl500			06-DEC-2004 14:16	1.0	1.0		4	
007	341a007	ICAL	dsl1000			06-DEC-2004 14:46	1.0	1.0		5	
008	341a008	ICAL	dsl2500			06-DEC-2004 15:15	1.0	1.0		6	
009	341a009	ICAL	dsl5000			06-DEC-2004 15:44	1.0	1.0		7	
010	341a010	X	ib			06-DEC-2004 16:14	1.0				
011	341a011	ICV	dsl			06-DEC-2004 16:43	1.0	1.0	3	8	
012	341a012	CCV	dsl			06-DEC-2004 17:13	1.0	1.0	3	9	
013	341a013	CCV	mo			06-DEC-2004 17:42	1.0	1.0	3	10	
014	341a014	SAMPLE	176268-029	97153	Water	06-DEC-2004 18:45	1.0	0.005	3		
015	341a015	SAMPLE	176363-015 S	97153	Water	06-DEC-2004 19:14	1.0	0.005	3		
016	341a016	SAMPLE	176363-012 S	97153	Water	06-DEC-2004 19:43	1.0	0.005	3		
017	341a017	SAMPLE	176363-009 S	97153	Water	06-DEC-2004 20:13	1.0	0.005	3		
018	341a018	SAMPLE	176363-006 S	97153	Water	06-DEC-2004 20:42	1.0	0.005	3		
019	341a019	SAMPLE	176363-003 S	97153	Water	06-DEC-2004 21:11	1.0	0.005	3		
020	341a020	SAMPLE	176268-012	97155	Soil	06-DEC-2004 21:41	1.0	0.1001	3		
021	341a021	SAMPLE	176268-009	97155	Soil	06-DEC-2004 22:10	1.0	0.09915	3		
022	341a022	SAMPLE	176268-015	97155	Soil	06-DEC-2004 22:40	1.0	0.0995	3		
023	341a023	SAMPLE	176341-001	97146	Soil	06-DEC-2004 23:09	50.0	0.1000	3		1:BUNKC:=5196.67
024	341a024	CCV	dsl			06-DEC-2004 23:38	1.0	1.0	3	11	
025	341a025	CCV	mo			07-DEC-2004 00:07	1.0	1.0	3	12	
026	341a026	X	ccv			07-DEC-2004 00:37	1.0			11	
027	341a027	SAMPLE	176268-010	97155	Soil	07-DEC-2004 01:06	2.0	0.09992	3		
028	341a028	SAMPLE	176268-013	97155	Soil	07-DEC-2004 01:36	1.0	0.09917	3		
029	341a029	SAMPLE	176268-017	97155	Soil	07-DEC-2004 02:06	5.0	0.09976	3		
030	341a030	SAMPLE	176268-002	97146	Soil	07-DEC-2004 02:35	1.0	0.09911	3		
031	341a031	SAMPLE	176268-014	97155	Soil	07-DEC-2004 03:05	3.0	0.0994	3		

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	341a032	SAMPLE	176402-001	97155	Soil	07-DEC-2004 03:35	5.0	0.1007	2	1	3	10:BUNKC:=37347.2	
033	341a033	SAMPLE	176268-001	97146	Soil	07-DEC-2004 04:04	2.0	0.1001			3		
034	341a034	SAMPLE	176402-002	97155	Soil	07-DEC-2004 04:34	10.0	0.1008			3	1:BUNKC:=15515.6	
035	341a035	SAMPLE	176268-011	97155	Soil	07-DEC-2004 05:03	20.0	0.1981			3		
036	341a036	SAMPLE	176268-016	97155	Soil	07-DEC-2004 05:33	1.0	0.09968			3		
037	341a037	CCV	dsl			07-DEC-2004 06:02	1.0	1.0			3	13	
038	341a038	CCV	mo			07-DEC-2004 06:32	1.0	1.0			3	12	
039	341a039	X	ccv			07-DEC-2004 07:01	1.0					13	

43

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 144505030 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 15-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	350b001	X	primer			15-DEC-2004 17:10	1.0					
002	350b002	X	ib			15-DEC-2004 17:37	1.0					
003	350b003	ICAL	dsl10			15-DEC-2004 18:05	1.0				1	
004	350b004	ICAL	dsl100			15-DEC-2004 18:33	1.0				2	
005	350b005	ICAL	dsl250			15-DEC-2004 19:01	1.0				3	
006	350b006	ICAL	dsl1000			15-DEC-2004 19:29	1.0				4	
007	350b007	ICAL	dsl2500			15-DEC-2004 19:58	1.0				5	
008	350b008	ICAL	dsl5000			15-DEC-2004 20:26	1.0				6	
009	350b009	X	ib			15-DEC-2004 20:54	1.0					
010	350b010	ICAL	mo50			15-DEC-2004 21:22	1.0				7	
011	350b011	ICAL	mo250			15-DEC-2004 21:50	1.0				8	
012	350b012	ICAL	mo500			15-DEC-2004 22:18	1.0				9	
013	350b013	ICAL	mo1000			15-DEC-2004 22:46	1.0				10	
014	350b014	ICAL	mo2500			15-DEC-2004 23:14	1.0				11	
015	350b015	ICAL	mo5000			15-DEC-2004 23:43	1.0				12	
016	350b016	X	ib			16-DEC-2004 00:11	1.0					
017	350b017	ICAL	hex5			16-DEC-2004 00:39	1.0				13	
018	350b018	ICAL	hex10			16-DEC-2004 01:07	1.0				14	
019	350b019	ICAL	hex25			16-DEC-2004 01:35	1.0				15	
020	350b020	ICAL	hex50			16-DEC-2004 02:04	1.0				16	
021	350b021	X	ib			16-DEC-2004 02:32	1.0					
022	350b022	ICV	dsl			16-DEC-2004 03:00	1.0				17	
023	350b023	CCV	dsl			16-DEC-2004 03:28	1.0				18	
024	350b024	CCV	mo			16-DEC-2004 03:56	1.0				19	
025	350b025	X	ib			16-DEC-2004 11:47	1.0					
026	350b026	ICAL	hex75			16-DEC-2004 12:15	1.0				20	
027	350b027	ICAL	dsl			16-DEC-2004 14:00	1.0				21	
028	350b028	X	ib			16-DEC-2004 14:27	1.0					
029	350b029	ICV	dsl			16-DEC-2004 14:55	1.0	3			17	

Stds used: 1=04WS2298 2=04WS2299 3=04WS2300 4=04WS2302 5=04WS2303 6=04WS2297 7=04WS2172 8=04WS2173 9=04WS2174 10=04WS2175 11=04WS2176 12=04WS2169 13=04WS2042 14=04WS2043 15=04WS2044 16=04WS2045 17=04WS2006 18=04WS2215 19=04WS2365 20=04WS2046 21=04WS2389

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114506134 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	351a001	X	ib			16-DEC-2004 11:34	1.0				
002	351a002	ICAL	hex5			16-DEC-2004 12:04	1.0	1.0		1	
003	351a003	ICAL	hex10			16-DEC-2004 12:33	1.0	1.0		2	
004	351a004	ICAL	hex25			16-DEC-2004 13:02	1.0	1.0		3	
005	351a005	ICAL	hex50			16-DEC-2004 13:31	1.0	1.0		4	
006	351a006	ICAL	hex75			16-DEC-2004 14:00	1.0	1.0		5	
007	351a007	X	ib			16-DEC-2004 15:12	1.0				
008	351a008	CCV	dsl			16-DEC-2004 15:41	1.0	1.0	3	6	
009	351a009	CCV	mo			16-DEC-2004 16:10	1.0	1.0	3	7	
010	351a010	SAMPLE	176613-016	97463	Soil	16-DEC-2004 16:44	1.0	0.0994	3		
011	351a011	SAMPLE	176613-014	97463	Soil	16-DEC-2004 17:13	1.0	0.1000	3		
012	351a012	SAMPLE	176613-011	97463	Soil	16-DEC-2004 17:42	1.0	0.09901	3		
013	351a013	SAMPLE	176613-010	97463	Soil	16-DEC-2004 18:12	1.0	0.09994	3		
014	351a014	SAMPLE	176613-008	97463	Soil	16-DEC-2004 18:41	1.0	0.09917	3		
015	351a015	SAMPLE	176613-006	97463	Soil	16-DEC-2004 19:10	1.0	0.09992	3		
016	351a016	SAMPLE	176613-004	97463	Soil	16-DEC-2004 19:39	1.0	0.09944	3		
017	351a017	SAMPLE	176613-003	97463	Soil	16-DEC-2004 20:08	1.0	0.09932	3		
018	351a018	SAMPLE	176613-001	97463	Soil	16-DEC-2004 20:38	1.0	0.09998	3		
019	351a019	LCS	QC276443 S	97521	Soil	16-DEC-2004 21:07	1.0	0.1002	3		
020	351a020	CCV	dsl			16-DEC-2004 21:36	1.0	1.0	3	8	
021	351a021	CCV	mo			16-DEC-2004 22:06	1.0	1.0	3	7	
022	351a022	X	ccv			16-DEC-2004 22:35	1.0			8	

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2215 7=04WS2365 8=04WS2207

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114516080 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	358a001	X	primer			23-DEC-2004 09:20	1.0						
002	358a002	X	ib			23-DEC-2004 09:49	1.0						
003	358a003	CCV	dsl			23-DEC-2004 10:18	1.0	1.0			3	1	
004	358a004	CCV	mo			23-DEC-2004 10:48	1.0	1.0			3	2	
005	358a005	SAMPLE	176741-004 S	97677	Water	23-DEC-2004 11:25	1.0	0.005			3		
006	358a006	SAMPLE	176741-003 S	97677	Water	23-DEC-2004 11:54	1.0	0.005			3		
007	358a007	CCV	dsl			23-DEC-2004 12:23	1.0	1.0			3	3	
008	358a008	CCV	mo			23-DEC-2004 12:53	1.0	1.0			3	2	
009	358a009	BLANK	QC277372	97762	Soil	23-DEC-2004 13:22	1.0	0.1007	7		3		
010	358a010	LCS	QC277373	97762	Soil	23-DEC-2004 13:52	1.0	0.1005			3		
011	358a011	SAMPLE	176662-010 S	97722	Water	23-DEC-2004 14:21	1.0	0.005			3		
012	358a012	SAMPLE	176758-016	97762	Soil	23-DEC-2004 14:51	10.0	0.1001			3		
013	358a013	SAMPLE	176756-002	97722	Water	23-DEC-2004 15:20	1.0	0.005			3		
014	358a014	SAMPLE	176723-001 S	97758	Water	23-DEC-2004 15:49	1.0	0.005			3		
015	358a015	SAMPLE	176760-001	97762	Soil	23-DEC-2004 16:19	5.0	0.1003			3		1:BUNKC:=8661.71
016	358a016	SAMPLE	176756-001	97722	Water	23-DEC-2004 16:48	1.0	0.005			3		1:BUNKC:=15387.4
017	358a017	X	ib			23-DEC-2004 17:17	1.0						
018	358a018	SAMPLE	176758-014	97762	Soil	23-DEC-2004 17:46	5.0	0.1003			3		
019	358a019	SAMPLE	176758-012	97762	Soil	23-DEC-2004 18:16	5.0	0.1007		1	3		1:BUNKC:=5901.88
020	358a020	X	ib			23-DEC-2004 18:45	1.0						
021	358a021	CCV	dsl			23-DEC-2004 19:14	1.0	1.0			3	4	
022	358a022	CCV	mo			23-DEC-2004 19:43	1.0	1.0			3	2	
023	358a023	X	ccv			23-DEC-2004 20:12	1.0					4	
024	358a024	BLANK	QC277361 S	97758	Water	23-DEC-2004 20:41	1.0	0.005	7		3		
025	358a025	BS	QC277362 S	97758	Water	23-DEC-2004 21:10	1.0	0.005			3		
026	358a026	BSD	QC277363 S	97758	Water	23-DEC-2004 21:39	1.0	0.005			3		
027	358a027	SAMPLE	176723-002 S	97758	Water	23-DEC-2004 22:08	1.0	0.005			3		
028	358a028	SAMPLE	176723-003 S	97758	Water	23-DEC-2004 22:37	1.0	0.005			3		
029	358a029	SAMPLE	176723-004 S	97758	Water	23-DEC-2004 23:07	1.0	0.005			3		
030	358a030	SAMPLE	176723-005 S	97758	Water	23-DEC-2004 23:36	1.0	0.005			3		
031	358a031	SAMPLE	176723-006 S	97758	Water	24-DEC-2004 00:05	1.0	0.005			3		

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114516080 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
032	358a032	SAMPLE	176723-008 S	97758	Water	24-DEC-2004 00:34	1.0	0.005	3		
033	358a033	SAMPLE	176723-009 S	97758	Water	24-DEC-2004 01:03	1.0	0.005	3		
034	358a034	CCV	dsl			24-DEC-2004 01:33	1.0	1.0	3	1	
035	358a035	CCV	mo			24-DEC-2004 02:02	1.0	1.0	3	2	
036	358a036	X	ccv04ws2358			24-DEC-2004 02:31	1.0				
037	358a037	SAMPLE	176726-002 S	97758	Water	24-DEC-2004 03:00	1.0	0.005	3		
038	358a038	SAMPLE	176726-001 S	97758	Water	24-DEC-2004 03:29	1.0	0.005	3		
039	358a039	SAMPLE	176705-016 S	97758	Water	24-DEC-2004 03:58	1.0	0.005	3		
040	358a040	SAMPLE	176705-015 S	97758	Water	24-DEC-2004 04:28	1.0	0.005	3		
041	358a041	SAMPLE	176705-014 S	97758	Water	24-DEC-2004 04:57	1.0	0.005	3		
042	358a042	SAMPLE	176705-013 S	97758	Water	24-DEC-2004 05:26	1.0	0.005	3		
043	358a043	SAMPLE	176705-012 S	97758	Water	24-DEC-2004 05:55	1.0	0.005	3		
044	358a044	SAMPLE	176705-008 S	97758	Water	24-DEC-2004 06:24	1.0	0.005	3		
045	358a045	SAMPLE	176705-004 S	97758	Water	24-DEC-2004 06:54	1.0	0.005	3		
046	358a046	SAMPLE	176705-003 S	97758	Water	24-DEC-2004 07:23	1.0	0.005	3		
047	358a047	CCV	dsl			24-DEC-2004 07:52	1.0	1.0	3	3	
048	358a048	CCV	mo			24-DEC-2004 08:21	1.0	1.0	3	2	
049	358a049	X	ccv			24-DEC-2004 08:51	1.0			3	
050	358a050	SAMPLE	176705-002 S	97758	Water	24-DEC-2004 09:20	1.0	0.005	3		
051	358a051	SAMPLE	176705-001 S	97758	Water	24-DEC-2004 09:49	1.0	0.005	3		
052	358a052	CCV	dsl			24-DEC-2004 10:19	1.0	1.0	3	4	
053	358a053	CCV	mo			24-DEC-2004 10:48	1.0	1.0	3	2	
054	358a054	X	ccv			24-DEC-2004 11:17	1.0			4	

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2258

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 144516104 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	358b001	X	primer			23-DEC-2004 09:44	1.0					
002	358b002	X	ib			23-DEC-2004 10:12	1.0					
003	358b003	CCV	dsl			23-DEC-2004 11:38	1.0	1.0		3	1	
004	358b004	CCV	mo			23-DEC-2004 12:06	1.0	1.0	1	3	2	
005	358b005	LCS	QC277218 S	97722	Water	23-DEC-2004 12:39	1.0	0.005		3		
006	358b006	BLANK	QC277217 S	97722	Water	23-DEC-2004 13:07	1.0	0.005	10	3		
007	358b007	MS	QC277219	97722	Water	23-DEC-2004 13:35	1.0	0.005		3		
008	358b008	MSD	QC277220	97722	Water	23-DEC-2004 14:03	1.0	0.005		3		
009	358b009	SAMPLE	176683-002	97722	Water	23-DEC-2004 14:31	1.0	0.005		3		
010	358b010	SAMPLE	176683-003	97722	Water	23-DEC-2004 14:59	1.0	0.005		3		
011	358b011	SAMPLE	176683-004	97722	Water	23-DEC-2004 15:27	1.0	0.005		3		
012	358b012	MSS	176683-005	97722	Water	23-DEC-2004 15:55	1.0	0.005	10	3		
013	358b013	SAMPLE	176652-001	97722	Water	23-DEC-2004 16:23	1.0	0.005		3		
014	358b014	SAMPLE	176652-007	97722	Water	23-DEC-2004 16:51	1.0	0.005		3		
015	358b015	CCV	dsl			23-DEC-2004 17:19	1.0	1.0		3	3	
016	358b016	CCV	mo			23-DEC-2004 17:47	1.0	1.0	1	3	2	
017	358b017	X	ccv			23-DEC-2004 18:15	1.0				3	
018	358b018	SAMPLE	176652-008	97722	Water	23-DEC-2004 18:42	1.0	0.005		3		
019	358b019	SAMPLE	176652-009	97722	Water	23-DEC-2004 19:11	1.0	0.005		3		
020	358b020	SAMPLE	176652-010	97722	Water	23-DEC-2004 19:38	1.0	0.005		3		
021	358b021	SAMPLE	176623-003 S	97722	Water	23-DEC-2004 20:06	1.0	0.005		3		
022	358b022	SAMPLE	176623-004 S	97722	Water	23-DEC-2004 20:34	1.0	0.005		3		
023	358b023	SAMPLE	176662-005 S	97722	Water	23-DEC-2004 21:02	1.0	0.005		3		
024	358b024	SAMPLE	176662-006 S	97722	Water	23-DEC-2004 21:30	1.0	0.005		3		
025	358b025	SAMPLE	176662-007 S	97722	Water	23-DEC-2004 21:58	1.0	0.005		3		
026	358b026	SAMPLE	176662-008 S	97722	Water	23-DEC-2004 22:26	1.0	0.005		3		
027	358b027	SAMPLE	176662-009 S	97722	Water	23-DEC-2004 22:54	1.0	0.005		3		
028	358b028	CCV	dsl			23-DEC-2004 23:21	1.0	1.0		3	4	
029	358b029	CCV	mo			23-DEC-2004 23:49	1.0	1.0	1	3	2	
030	358b030	X	ccv			24-DEC-2004 00:17	1.0				4	
031	358b031	BLANK	QC277407 S	97768	Water	24-DEC-2004 00:45	1.0	0.005	10	3		

Stds used: 1=04WS2215 2=04WS2365 3=04WS2406 4=04WS2258 5=04WS2358

SEQUENCE SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 144516104 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 23-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	358b032	X	QC277408 S	97768	Water	24-DEC-2004 01:13	1.0	0.005			3		
033	358b033	BSD	QC277409 S	97768	Water	24-DEC-2004 01:41	1.0	0.005			3		
034	358b034	SAMPLE	176776-001 S	97768	Water	24-DEC-2004 02:08	1.0	0.005			3		
035	358b035	SAMPLE	176776-002 S	97768	Water	24-DEC-2004 02:36	1.0	0.005			3		
036	358b036	SAMPLE	176776-003 S	97768	Water	24-DEC-2004 03:04	1.0	0.005			3		
037	358b037	SAMPLE	176776-004 S	97768	Water	24-DEC-2004 03:32	1.0	0.005			3		
038	358b038	SAMPLE	176776-005 S	97768	Water	24-DEC-2004 04:00	1.0	0.005			3		
039	358b039	SAMPLE	176776-006 S	97768	Water	24-DEC-2004 04:28	1.0	0.005		1	3		
040	358b040	SAMPLE	176776-007 S	97768	Water	24-DEC-2004 04:56	1.0	0.005			3		
041	358b041	CCV	dsl			24-DEC-2004 05:24	1.0	1.0			3	5	
042	358b042	CCV	mo			24-DEC-2004 05:52	1.0	1.0	1		3	2	
043	358b043	X	ccv			24-DEC-2004 06:20	1.0					5	
044	358b044	SAMPLE	176791-003 S	97768	Water	24-DEC-2004 06:48	1.0	0.005			3		
045	358b045	SAMPLE	176791-001 S	97768	Water	24-DEC-2004 07:16	1.0	0.005			3		
046	358b046	SAMPLE	176791-002 S	97768	Water	24-DEC-2004 07:44	1.0	0.005		1	3		
047	358b047	SAMPLE	176791-004 S	97768	Water	24-DEC-2004 08:12	1.0	0.005			3		
048	358b048	SAMPLE	176791-005 S	97768	Water	24-DEC-2004 08:40	1.0	0.005			3		
049	358b049	SAMPLE	176791-006 S	97768	Water	24-DEC-2004 09:08	1.0	0.005			3		
050	358b050	SAMPLE	176791-007 S	97768	Water	24-DEC-2004 09:36	1.0	0.005			3		
051	358b051	SAMPLE	176791-008 S	97768	Water	24-DEC-2004 10:04	1.0	0.005			3		
052	358b052	SAMPLE	176791-009 S	97768	Water	24-DEC-2004 10:31	1.0	0.005			3		
053	358b053	SAMPLE	176791-010 S	97768	Water	24-DEC-2004 10:59	1.0	0.005			3		
054	358b054	CCV	dsl			24-DEC-2004 11:27	1.0	1.0			3	3	
055	358b055	CCV	mo			24-DEC-2004 11:55	1.0	1.0	1		3	2	
056	358b056	X	ccv			24-DEC-2004 12:23	1.0					3	
057	358b057	SAMPLE	176791-011 S	97768	Water	24-DEC-2004 12:51	1.0	0.005			3		
058	358b058	SAMPLE	176791-012 S	97768	Water	24-DEC-2004 13:18	1.0	0.005			3		
059	358b059	SAMPLE	176791-013 S	97768	Water	24-DEC-2004 13:46	1.0	0.005			3		
060	358b060	CCV	dsl			24-DEC-2004 14:14	1.0	1.0			3	4	
061	358b061	CCV	mo			24-DEC-2004 14:43	1.0	1.0	1		3	2	
062	358b062	X	ccv			24-DEC-2004 15:11	1.0					4	

Stds used: 1=04WS2215 2=04WS2365 3=04WS2406 4=04WS2258 5=04WS2358

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	DSL:	MO:2	HXCS	
176662-005	GC15B	12/22/04 20:21	1.0				
176662-005	GC13B	12/23/04 21:02	1.0	+	+	+	
176662-006	GC15B	12/22/04 20:50	1.0				
176662-006	GC13B	12/23/04 21:30	1.0	+	+	+	
176662-007	GC15B	12/22/04 21:19	1.0				
176662-007	GC13B	12/23/04 21:58	1.0	+	+	+	
176662-008	GC15B	12/22/04 21:48	1.0				
176662-008	GC13B	12/23/04 22:26	1.0	+	+	+	
176662-009	GC15B	12/22/04 22:18	1.0				
176662-009	GC13B	12/23/04 22:54	1.0	+	+	+	
176662-010	GC15B	12/22/04 22:47	1.0				
176662-010	GC11A	12/23/04 14:21	1.0	+	+	+	
QC277217	GC15B	12/22/04 18:54	1.0				
QC277217	GC13B	12/23/04 13:07	1.0	+	+	+	
QC277218	GC15B	12/22/04 18:25	1.0				
QC277218	GC13B	12/23/04 12:39	1.0	+		+	
QC277219	GC13B	12/23/04 13:35	1.0	+		+	
QC277220	GC13B	12/23/04 14:03	1.0	+		+	

Curtis & Tompkins Laboratories Sample Preparation Summary 22-DEC-2004 17:21

Batch Number : 97722
Date Extracted: 21-DEC-2004
Extracted by : Jessie O'Brien Mee
Prep Method : 3520C

Analysis : N/A
Bgroup : TEH
Units : ml
Clean-up :

Spike #1 ID : 04WS2345C
Spike #2 ID : 04WS2342E
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176623-003			Weston Solutions	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176623-004			Weston Solutions	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176652-001			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-007			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-008			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-009			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176652-010			Dawson Group	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176662-005			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	8	.5			TEHM	3630C	sg
176662-006			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-007			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-008			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-009			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176662-010			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5			TEHM	3630C	sg
176683-002			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176683-003			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176683-004			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176683-005			URS Corporation	Water	500	ml	2.5	0.005000	1	6	.5			TEH		MSS
176756-001			SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
176756-002			SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	6	.5			TEH		
QC277217	MB			Water	500	ml	2.5	0.005000	1		.5			TEH	3630C	sg
QC277218	LCS			Water	500	ml	2.5	0.005000	1		.5	.5		TEH	3630C	sg
QC277219	MS	of 176683-005		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH		
QC277220	MSD	of 176683-005		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH		

Prep Chemist: JPK FJR JDM Reviewed By: [illegible] Date: 22-DEC-04

Relinquished By: [illegible] Received By: [illegible] Date: 12/22/04

Curtis & Tompkins, Ltd.

TEH WATER PREP LOG

BK2010

LIMS Batch No: 47722
LIMS Analysis: TEH
Extracted by: DM
Date Extracted: 21 Dec 04

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☒ mod. EPA 3520 cont. L/L
☐ _____

Page: 66

Cleanup Method (if needed):
☒ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
176623-003H	500	6	2.5	X	
004E					
176652-001K					
002D					
003					
004					
005					
176662-006F		8		X	
007G		6			
008E					
009G					
010					
176683-002E					
003					
004					
005					MSS
176756-001K					
002					
MB QC2-7217		NA			
LCS	10				
MSS	10				176683-005T
MSD	20				JH

	Mfg & Lot# / LIMS # / Time	Date/ Initials
0.5 mL of TEH SURR was added to all samples	CHUS2345C	DM 21Dec04
0.5 mL of TEH SP was added to all samples	CHUS2325C CHUS2342E	
pH of all samples adjusted to pH ≤ 2 with H_2SO_4	STB A2036	
☒ Samples were continually extracted about 450 mL of CH_2Cl_2	EM44202	
Extraction Start Time:	1515	
Extraction End Time:	0915	12/21/2004
☐ ~~Samples were extracted 3 times with 60 mL of CH_2Cl_2~~	NA	12/22/04 KR
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4	EM44126439	
Concentrated to volumes as noted above	✓	

Jessie Lee 21 Dec 04
Extraction Chemist Date

Contined from Page ____
Contined to ____

22-DEC-04
Reviewed

Curtis & Tompkins, Ltd. **Silica Gel Cleanup** **EPA 3630c**

Prep Chemist: KR

Cleanup Date: 22 DEC 04

Benchbook # **BK 2028**

Page 62

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
17679-003	97672	0.5	0.5	
↓ 4		0.5	↓	
143 8627767	97672	1.0	1.0	
105				
17663-003				
↓ 4				
17667-003				
6				
7				
8				
9				
↓ 10		↓	↓	

	Mfg & Lot # / Time / Program	Initials / Date
☐ Extracts were cleaned up using C&T assembled 1.0 g columns	JTB V8332	KR 22 DEC 04
☐ Extracts were cleaned up using ____ g cartridges	NA	↓
Extracts were eluted with 4.0 mL CH_2Cl_2	BM49362	↓
Concentrated to volumes as noted above	↓	↓

K. Rg 22 DEC 04

Continued from page ____

Continued on page ____

12/21/04

Extraction Chemist / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water 3520

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	07/15/03 19	07/10/03 17	07/09/03 33	07/10/03 34
Diesel C10-C20	ug/L		12/23/03 25	12/30/03 37	12/23/03 22
Diesel C10-C22	ug/L	12/23/03 22	12/23/03 26	12/30/03 36	12/23/03 22
Diesel C10-C24	ug/L	12/23/03 24	12/23/03 28	12/30/03 33	12/23/03 35
Diesel C10-C28	ug/L	12/23/03 29	12/23/03 30	12/30/03 30	12/23/03 45
Diesel C12-C28	ug/L		12/23/03 31		
Diesel C12-C36	ug/L	12/23/03 29	12/23/03 36		
Diesel C12-C32	ug/L			12/30/03 29	12/23/03 47
Diesel C12-C24	ug/L	12/23/03 22	12/23/03 28	12/30/03 32	12/23/03 38
Diesel C12-C22	ug/L	12/23/03 21	12/23/03 27	12/30/03 35	12/23/03 24
Diesel C10-C40	ug/L	03/09/03 37		03/15/03 46	
Motor Oil C20-C36	ug/L	04/03/04 220	04/02/04 120	04/09/04 120	04/02/04 86
Motor Oil C22-C36	ug/L	04/03/04 210	04/02/04 120	04/09/04 120	04/02/04 84
Motor Oil C24-C36	ug/L	04/03/04 170	04/02/04 120	04/09/04 110	04/02/04 78
Motor Oil C22-C32	ug/L	04/03/04 200	04/02/04 140	04/09/04 120	04/02/04 95
Hexacosane	ug/L	08/15/03 11	08/15/03 21	08/14/03 5.4	08/22/03 3.8

METALS

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3GW100	Sampled:	12/14/04
Lab ID:	176662-010	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/22/04
Batch#:	97537		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	68	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	32,000	2,500	5.000
Chromium	14	10	1.000
Cobalt	ND	10	1.000
Copper	ND	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	98,000	5,000	10.00
Manganese	ND	10	1.000
Nickel	22	20	1.000
Potassium	1,400	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	130,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

51.0

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276516	Batch#:	97537
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/21/04

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	97537
Units:	ug/L	Prepared:	12/16/04
Diln Fac:	1.000	Analyzed:	12/21/04

Type: BS Lab ID: QC276517

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	93.74	94	80-120
Antimony	100.0	94.45	94	80-120
Arsenic	100.0	101.9	102	80-120
Barium	100.0	99.92	100	80-120
Beryllium	100.0	101.4	101	80-120
Cadmium	100.0	100.3	100	80-120
Calcium	10,000	10,150	102	80-120
Chromium	100.0	93.95	94	80-120
Cobalt	100.0	94.70	95	80-120
Copper	100.0	103.5	104	80-120
Iron	10,000	10,400	104	80-120
Lead	100.0	96.35	96	80-120
Magnesium	10,000	10,230	102	80-120
Manganese	100.0	93.13	93	80-120
Nickel	100.0	102.9	103	80-120
Potassium	10,000	10,140	101	80-120
Selenium	100.0	102.8	103	80-120
Silver	100.0	93.47	93	80-120
Sodium	10,000	10,070	101	80-120
Thallium	100.0	90.81	91	80-120
Vanadium	100.0	91.38	91	80-120
Zinc	100.0	100.7	101	80-120

Type: BSD Lab ID: QC276518

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	94.01	94	80-120	0	20
Antimony	100.0	95.89	96	80-120	2	20
Arsenic	100.0	101.1	101	80-120	1	20
Barium	100.0	100.5	101	80-120	1	20
Beryllium	100.0	102.0	102	80-120	1	20
Cadmium	100.0	101.3	101	80-120	1	20
Calcium	10,000	10,310	103	80-120	2	20
Chromium	100.0	94.69	95	80-120	1	20
Cobalt	100.0	95.20	95	80-120	1	20
Copper	100.0	103.7	104	80-120	0	20
Iron	10,000	10,450	105	80-120	0	20
Lead	100.0	97.00	97	80-120	1	20
Magnesium	10,000	10,260	103	80-120	0	20
Manganese	100.0	93.83	94	80-120	1	20
Nickel	100.0	103.6	104	80-120	1	20
Potassium	10,000	10,230	102	80-120	1	20
Selenium	100.0	95.33	95	80-120	8	20
Silver	100.0	93.50	94	80-120	0	20
Sodium	10,000	10,100	101	80-120	0	20
Thallium	100.0	92.79	93	80-120	2	20
Vanadium	100.0	91.31	91	80-120	0	20
Zinc	100.0	102.0	102	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW103	Sampled:	12/14/04
MSS Lab ID:	176662-001	Received:	12/15/04
Matrix:	Filtrate	Prepared:	12/16/04
Units:	ug/L	Analyzed:	12/21/04
Batch#:	97537		

Type: MS Lab ID: QC276519

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	1.105	100.0	96.59	95	75-125	1.000
Antimony	0.3742	100.0	101.4	101	75-125	1.000
Arsenic	5.291	100.0	107.2	102	75-125	1.000
Barium	61.90	100.0	170.7	109	75-125	1.000
Beryllium	<0.1400	100.0	102.6	103	75-125	1.000
Cadmium	<0.2000	100.0	96.02	96	75-125	1.000
Calcium	60,580	10,000	64,370	38 NM	75-125	20.00
Chromium	0.9446	100.0	94.97	94	75-125	1.000
Cobalt	0.7210	100.0	92.88	92	75-125	1.000
Copper	0.5296	100.0	97.80	97	75-125	1.000
Iron	162.6	10,000	10,340	102	75-125	1.000
Lead	<0.04800	100.0	100.6	101	75-125	1.000
Magnesium	162,000	10,000	185,000	230 NM	75-125	20.00
Manganese	135.9	100.0	226.8	91	75-125	20.00
Nickel	119.9	100.0	241.9	122	75-125	20.00
Potassium	3,034	10,000	13,160	101	75-125	1.000
Selenium	2.974	100.0	100.8	98	75-125	1.000
Silver	<0.1600	100.0	88.68	89	75-125	1.000
Sodium	97,430	10,000	114,900	175 NM	75-125	20.00
Thallium	0.9664	100.0	80.38	79	75-125	1.000
Vanadium	4.068	100.0	110.0	106	75-125	1.000
Zinc	3.060	100.0	101.6	99	75-125	1.000

Type: MSD Lab ID: QC276520

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	94.61	94	75-125	2	20	1.000
Antimony	100.0	100.8	100	75-125	1	20	1.000
Arsenic	100.0	106.5	101	75-125	1	20	1.000
Barium	100.0	168.5	107	75-125	1	20	1.000
Beryllium	100.0	101.7	102	75-125	1	20	1.000
Cadmium	100.0	96.17	96	75-125	0	20	1.000
Calcium	10,000	63,650	31 NM	75-125	1	20	20.00
Chromium	100.0	94.32	93	75-125	1	20	1.000
Cobalt	100.0	92.57	92	75-125	0	20	1.000
Copper	100.0	99.09	99	75-125	1	20	1.000
Iron	10,000	10,290	101	75-125	0	20	1.000
Lead	100.0	100.9	101	75-125	0	20	1.000
Magnesium	10,000	181,000	190 NM	75-125	2	20	20.00
Manganese	100.0	225.0	89	75-125	1	20	20.00
Nickel	100.0	238.8	119	75-125	1	20	20.00
Potassium	10,000	13,030	100	75-125	1	20	1.000
Selenium	100.0	97.97	95	75-125	3	20	1.000
Silver	100.0	88.45	88	75-125	0	20	1.000
Sodium	10,000	111,900	145 NM	75-125	3	20	20.00
Thallium	100.0	87.84	87	75-125	9	20	1.000
Vanadium	100.0	107.0	103	75-125	3	20	1.000
Zinc	100.0	99.27	96	75-125	2	20	1.000

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	LF4GW103	Units:	ug/L
Type:	Serial Dilution	Batch#:	97537
MSS Lab ID:	176662-001	Sampled:	12/14/04
Lab ID:	QC276521	Received:	12/15/04
Matrix:	Filtrate		

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac	Analyzed
Aluminum	ND	100.0	ND	250		10	5.000	12/21/04
Antimony	ND	1.000	0.39 J	5.0		10	5.000	12/21/04
Arsenic	5.291	5.000	5.2	5.0		10	5.000	12/21/04
Barium	61.90	10.00	59	5.0	5	10	5.000	12/21/04
Beryllium	ND	2.000	ND	5.0		10	5.000	12/21/04
Cadmium	ND	1.000	ND	5.0		10	5.000	12/21/04
Calcium	60,580	5,000	52,000	2,500	14 *	10	50.00	12/21/04
Chromium	ND	10.00	2.1 J	5.0		10	5.000	12/21/04
Cobalt	ND	10.00	0.67 J	5.0		10	5.000	12/21/04
Copper	ND	1.000	ND	5.0		10	5.000	12/21/04
Iron	162.6	100.0	160 J	250		10	5.000	12/21/04
Lead	ND	3.000	ND	5.0		10	5.000	12/21/04
Magnesium	162,000	5,000	170,000	2,500	4	10	50.00	12/21/04
Manganese	135.9	10.00	120	5.0	10	10	5.000	12/22/04
Nickel	119.9	20.00	120	5.0	1	10	5.000	12/21/04
Potassium	3,034	500.0	3,000	250	2	10	5.000	12/21/04
Selenium	ND	5.000	ND	13		10	5.000	12/21/04
Silver	ND	1.000	ND	5.0		10	5.000	12/21/04
Sodium	97,430	5,000	98,000	4,000	0	10	50.00	12/21/04
Thallium	ND	1.000	ND	5.0		10	5.000	12/21/04
Vanadium	ND	10.00	7.5	5.0		10	5.000	12/21/04
Zinc	ND	20.00	3.5 J	5.0		10	5.000	12/21/04

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6020

Instid : MET05
Seqnum : 54514758067
Filename : l2211067
IDF : 1.0
PDF : 1.0
Run type : PDS
Samplenum: QC277377
Matrix : Filtrate
Batchnum : 97537
Inj : 22-DEC-2004 17:40
Units : ug/L

MSS : 176662-001

Analyte	MSS Seqnum	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	54513829023	1.105	100	105.1	104	75-125	u
Antimony	54513829023	0.3742	100	107.7	107	75-125	u
Arsenic	54513829023	5.291	100	107.0	102	75-125	u
Barium	54513829023	61.90	100	170.1	108	75-125	u
Beryllium	54513829023	ND	100	100.6	101	75-125	u
Cadmium	54513829023	ND	100	97.16	97	75-125	u
Calcium	*** usable MSS data not found ***						
Chromium	54513829023	0.9446	100	91.95	91	75-125	u
Cobalt	54513829023	0.7210	100	89.54	89	75-125	u
Copper	54513829023	0.5296	100	97.70	97	75-125	u
Iron	54513829023	162.6	10000	10260	101	75-125	u
Lead	54513829023	ND	100	101.6	102	75-125	u
Magnesium	*** usable MSS data not found ***						
Manganese	54513829023	135.9	100	229.2	>LR	93	75-125	>LR **b***
Molybdenum	54513829023	4.536	100	106.5	102	75-125	
Nickel	54513829023	119.9	100	211.1	>LR	91	75-125	>LR **b***
Potassium	54513829023	3034	10000	13770	107	75-125	u
Selenium	54513829032	2.974	100	102.3	99	75-125	<ib **b***
Silver	54513829023	ND	100	94.01	94	75-125	u
Sodium	*** usable MSS data not found ***						
Thallium	54513829023	0.9664	100	73.40	**72***	75-125	u
Vanadium	54513829023	4.068	100	93.98	90	75-125	<c- >c- **b***
Zinc	54513829023	3.060	100	98.13	95	75-125	u

ISTD (IB=l2211003)	IB Abund	Abund	%Diff
Lithium	533978	492304	-7.80
Scandium	549173	522731	-4.81
Germanium	107898	103789	-3.81
Indium	920762	771334	-16.23
Bismuth	812644	711784	-12.41
Terbium	1271294	1152815	-9.32

-=low bias <=opening >=closing >LR=overrange b=noncompliant c=CCV ib=instrument blank u=use

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6020

Instid : MET05
Seqnum : 54514758094
Filename : l2211094
IDF : 10.0
PDF : 1.0
Run type : PDS
Samplenum: QC277377
Matrix : Filtrate
Batchnum : 97537
Inj : 22-DEC-2004 20:24
Units : ug/L

MSS : 176662-001

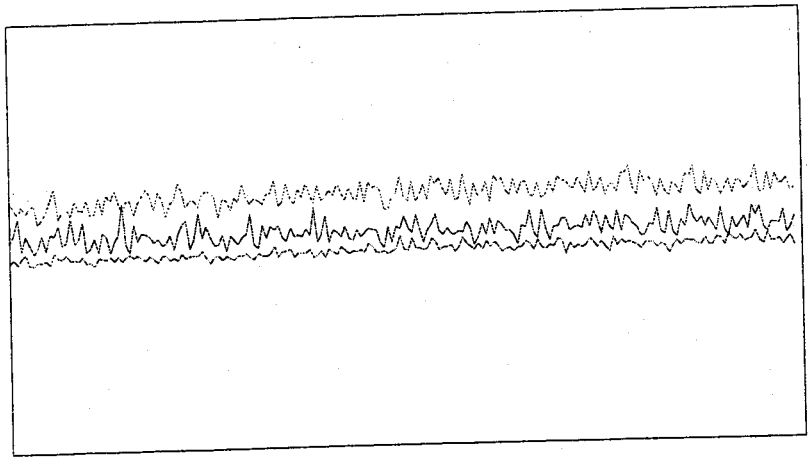
Analyte	MSS Seqnum	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	54513829023	1.105	100	100.1	100	75-125	
Antimony	54513829023	0.3742	100	96.83	97	75-125	
Arsenic	54513829023	5.291	100	98.41	98	75-125	
Barium	54513829023	61.90	100	103.2	97	75-125	
Beryllium	54513829023	ND	100	95.70	96	75-125	
Cadmium	54513829023	ND	100	97.45	97	75-125	
Calcium	54513829034	6058	10000	16660	106	75-125	u
Chromium	54513829023	0.9446	100	88.05	88	75-125	
Cobalt	54513829023	0.7210	100	86.76	87	75-125	
Copper	54513829023	0.5296	100	95.39	95	75-125	
Iron	54513829023	162.6	10000	9895	99	75-125	
Lead	54513829023	ND	100	93.53	94	75-125	
Magnesium	54513829034	16200	10000	27650	>LR 115	75-125	>LR **b***
Manganese	54513829023	135.9	100	104.9	91	75-125	u
Molybdenum	54513829023	4.536	100	96.56	96	75-125	
Nickel	54513829023	119.9	100	106.7	95	75-125	u
Potassium	54513829023	3034	10000	10920	106	75-125	
Selenium	54513829032	2.974	100	95.96	96	75-125	<ib **b***
Silver	54513829023	ND	100	91.40	91	75-125	
Sodium	54513829034	9743	10000	21110	>LR 114	75-125	>LR **b***
Thallium	54513829023	0.9664	100	99.54	99	75-125	
Vanadium	54513829023	4.068	100	86.19	86	75-125	<c- **b***
Zinc	54513829023	3.060	100	95.44	95	75-125	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	502411	-5.91
Scandium	549173	537846	-2.06
Germanium	107898	108078	0.17
Indium	920762	836828	-9.12
Bismuth	812644	771964	-5.01
Terbium	1271294	1192684	-6.18

-=low bias <=opening >LR=overrange b=noncompliant c=CCV ib=instrument blank u=use

Tune Report

Tune File : ATUNE.U



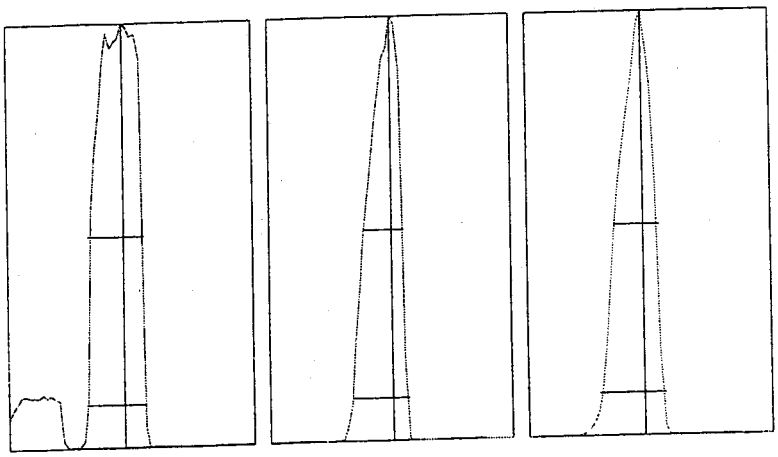
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	10,287	22,305	28,970
Mean:	9991.7	22765.9	29340.3
RSD%:	4.30	2.08	3.68
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.40%
Doubly Charged:	70/140	1.07%

Background:

m/z:	7	89	205
Cps:	101.5	51.5	43.9



m/z:	7	89	205
Height:	9,908	23,807	31,515
Axis:	6.95	89.05	204.95
W-50%:	0.70	0.50	0.55
W-10%:	0.7500	0.700	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===	
RF Power:	1260 W
RF Matching:	1.68 V
Smpl Depth:	8.4 mm
Torch-H:	1.1 mm
Torch-V:	0.1 mm
Carrier Gas:	1.03 L/min
Makeup Gas:	0 L/min
Optional Gas:	--- %
PeriPump1:	0.1 rps
PeriPump2:	--- rps
S/C Temp:	2 degC

===Ion Lenses===	
Extract 1:	-130 V
Extract 2:	-49 V
Einzel 1,3:	-125 V
Einzel 2:	14 V
Omega Bias:	-68 V
Omega (+):	3 V
Omega (-):	2 V
QP Focus:	2 V
Plate Bias:	0 V

===Q-Pole Parameters===	
AMU Gain:	128
AMU Offset:	127
Axis Gain:	1.0002
Axis Offset:	-0.02
QP Bias:	0 V

===Detector Parameters===	
Discriminator:	9.2 mV
Analog HV:	1840 V
Pulse HV:	1400 V

Generated : Dec 21, 2004 09:44:24
Printed : Dec 21, 2004 09:44:30

P/A Factor Tuning Report

Acquired:Dec 21 2004 09:59 am

Mass[amu]	Element	P/A Factor
6	Li	0.067360
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.078788
26	Mg	0.078683
27	Al	0.076854
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.079098
45	Sc	0.079419
51	V	Sensitivity too low
52	Cr	Sensitivity too low
53	Cr	Sensitivity too low
54	Fe	0.077475
55	Mn	Sensitivity too low
57	Fe	0.076218
59	Co	Sensitivity too low
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.074991
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.071345
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.071030
166	Er	Sensitivity too low

```
                                    Temp.p$$
  205        Tl  Sensitivity too low
  206      (Pb)  Sensitivity too low
  207      (Pb)  Sensitivity too low
  208        Pb  Sensitivity too low
  209        Bi    0.066712
  232        Th  Sensitivity too low
  238         U  Sensitivity too low

===Detector Parameters===
  Discriminator: 9.2 mV
      Analog HV: 1840 V
       Pulse HV: 1400 V
```

P/A Factor Tuning Report

Acquired:Dec 21 2004 10:07 am

Mass[amu]	Element	P/A Factor
6	Li	0.067520
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.078788
26	Mg	0.078683
27	Al	0.079490
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.082104
45	Sc	0.081401
51	V	0.080624
52	Cr	0.079551
53	Cr	Sensitivity too low
54	Fe	0.077475
55	Mn	0.079609
57	Fe	0.079455
59	Co	0.077778
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.076329
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.071400
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.072913
118	(In)	0.073538
121	Sb	0.072819
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.072812
166	Er	Sensitivity too low

205	Tl	0.068894
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.068222
209	Bi	0.068933
232	Th	0.069547
238	U	0.069786

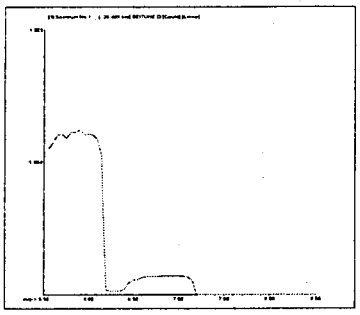
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

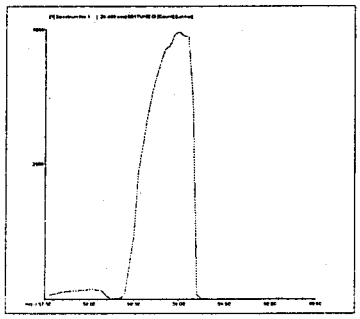
Data File: C:\ICPCHEM\1\DATA\04L2119c.B\001TUNE.D
Date Acquired: Dec 21 2004 07:49 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tun,04ws2314
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

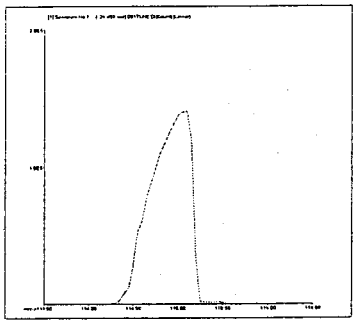
Element	Actual	Required	Flag
7 Li	0.34	5.00	
59 Co	0.95	5.00	
115 In	1.26	5.00	
205 Tl	1.58	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



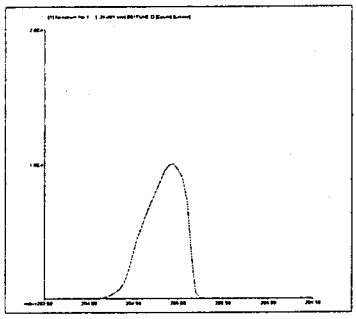
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	204.95	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2119c.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 21 2004 07:54 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 21 2004 00:47 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.01479	ppb	182.29	0.01479	1.00	
23 Na	-7.81	ppb	7.47	-7.81	1.00	
26 Mg	-2.132	ppb	1.88	-2.132	1.00	
27 Al	-2.05	ppb	2.31	-2.05	1.00	
39 K	19.27	ppb	25.52	19.27	1.00	
44 Ca	1.841	ppb	20.16	1.841	1.00	
51 V	-0.1661	ppb	55.95	-0.1661	1.00	
52 Cr	-0.1564	ppb	10.95	-0.1564	1.00	
55 Mn	0.01451	ppb	87.39	0.01451	1.00	
57 Fe	-5.168	ppb	50.23	-5.168	1.00	
59 Co	-0.01628	ppb	26.50	-0.01628	1.00	
60 Ni	0.02344	ppb	58.45	0.02344	1.00	
65 Cu	-0.06119	ppb	16.83	-0.06119	1.00	
66 Zn	0.06297	ppb	92.39	0.06297	1.00	
75 As	-1.481	ppb	13.98	-1.481	1.00	
82 Se	-10.82	ppb	8.76	-10.82	1.00	
95 Mo	-0.04721	ppb	21.46	-0.04721	1.00	
109 Ag	-0.01045	ppb	37.63	-0.01045	1.00	
111 Cd	-0.02112	ppb	285.94	-0.02112	1.00	
121 Sb	-0.01113	ppb	61.77	-0.01113	1.00	
137 Ba	-0.008325	ppb	282.88	-0.008325	1.00	
205 Tl	1.307	ppb	7.42	1.307	1.00	
208 Pb	0.02582	ppb	27.50	0.02582	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	618603.06	2.80	---	#VALUE!	30 - 200	
45 Sc	841196.81	1.75	---	#VALUE!	30 - 200	
72 Ge	145472.45	2.31	---	#VALUE!	30 - 200	

115 In	1318834.50	2.12	---	#VALUE!	30 - 200
209 Bi	1169575.00	1.23	---	#VALUE!	30 - 200

ISTD Ref File : ---

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\003CAL
Date Acquired: Dec 21 2004 08:00 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 00:47 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	634616.38	A	19730.00	3.11
9	Be	92.22	P	15.40	16.70
23	Na	234875.50	P	4028.00	1.72
26	Mg	1127.78	P	91.43	8.11
27	Al	6891.11	P	553.30	8.03
39	K	825445.19	A	8153.00	0.99
44	Ca	3171.71	P	178.30	5.62
45	Sc	843570.00	A	7390.00	0.88
51	V	1452.80	P	575.20	39.59
52	Cr	3013.33	P	68.39	2.27
55	Mn	808.89	P	49.93	6.17
57	Fe	7132.22	P	277.20	3.89
59	Co	284.44	P	18.36	6.45
60	Ni	120.00	P	21.86	18.22
65	Cu	412.22	P	78.62	19.07
66	Zn	651.12	P	43.50	6.68
72	Ge	145277.59	P	2663.00	1.83
75	As	-383.77	P	908.20	236.65
82	Se	1880.51	P	403.80	21.47
95	Mo	113.33	P	30.55	26.96
109	Ag	151.11	P	30.06	19.89
111	Cd	291.73	P	26.13	8.96
115	In	1318660.00	A	18790.00	1.42
121	Sb	147.78	P	17.11	11.58
137	Ba	174.44	P	12.62	7.23
205	Tl	8177.78	P	815.70	9.97
208	Pb	722.22	P	73.81	10.22
209	Bi	1180918.00	A	23500.00	1.99
232	Th	401.11	P	37.17	9.27
238	U	102.22	P	1.93	1.88

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\004CALI.D\004CALI.D#
Date Acquired: Dec 21 2004 08:05 pm
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:02 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	639169.63	A	4688.00	0.73
9	Be	103.33	P	8.82	8.53
23	Na	213962.20	P	3834.00	1.79
26	Mg	365.56	P	28.35	7.76
27	Al	3844.44	P	113.40	2.95
39	K	809719.81	A	16230.00	2.00
44	Ca	3008.22	P	35.13	1.17
45	Sc	835455.50	A	5240.00	0.63
51	V	1432.47	P	513.50	35.85
52	Cr	3013.33	P	115.30	3.83
55	Mn	751.11	P	13.47	1.79
57	Fe	6880.00	P	286.60	4.17
59	Co	306.67	P	5.77	1.88
60	Ni	155.56	P	6.94	4.46
65	Cu	427.78	P	22.19	5.19
66	Zn	748.89	P	99.01	13.22
72	Ge	144632.41	P	2821.00	1.95
75	As	-235.36	P	287.30	122.07
82	Se	1954.31	P	137.60	7.04
95	Mo	65.56	P	5.09	7.77
109	Ag	71.11	P	18.95	26.65
111	Cd	272.22	P	19.85	7.29
115	In	1319980.00	A	24780.00	1.88
121	Sb	104.44	P	18.36	17.58
137	Ba	165.56	P	18.95	11.45
205	Tl	6390.00	P	646.00	10.11
208	Pb	754.44	P	35.01	4.64
209	Bi	1196948.00	A	9596.00	0.80
232	Th	365.56	P	43.50	11.90
238	U	45.56	P	13.47	29.57

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	639169.63	0.73	634616.44	100.7	30 - 200	
45 Sc	835455.56	0.63	843569.94	99.0	30 - 200	
72 Ge	144632.45	1.95	145277.55	99.6	30 - 200	
115 In	1319980.30	1.88	1318660.10	100.1	30 - 200	
209 Bi	1196948.50	0.80	1180918.00	101.4	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\005CALI.D\005CALI.D#
Date Acquired: Dec 21 2004 08:10 pm
Operator:
Sample Name: cs2,04ws2311
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:07 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	641576.13	A	8593.00	1.34
9	Be	827.78	P	33.39	4.03
23	Na	605447.69	P	7574.00	1.25
26	Mg	37647.78	P	554.00	1.47
27	Al	6443.33	P	145.30	2.26
39	K	1160769.00	A	1059.00	0.09
44	Ca	12646.07	P	189.00	1.49
45	Sc	825055.81	A	13340.00	1.62
51	V	5443.81	P	761.90	14.00
52	Cr	6462.22	P	121.20	1.88
55	Mn	5236.67	P	106.90	2.04
57	Fe	15695.55	P	272.70	1.74
59	Co	4015.55	P	58.72	1.46
60	Ni	856.67	P	35.12	4.10
65	Cu	1279.84	P	51.96	4.06
66	Zn	1081.30	P	36.57	3.38
72	Ge	144040.41	P	2963.00	2.06
75	As	328.88	P	235.80	71.70
82	Se	1949.65	P	67.12	3.44
95	Mo	1146.67	P	50.44	4.40
109	Ag	2617.78	P	201.20	7.69
111	Cd	818.14	P	45.39	5.55
115	In	1315938.00	A	6623.00	0.50
121	Sb	2378.89	P	56.70	2.38
137	Ba	1055.56	P	40.32	3.82
205	Tl	10388.89	P	623.90	6.01
208	Pb	8148.89	P	168.30	2.07
209	Bi	1191458.00	A	7952.00	0.67
232	Th	2108.89	P	51.03	2.42
238	U	7294.44	P	125.10	1.72

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	641576.13	1.34	634616.44	101.1	30 - 200	
45 Sc	825055.81	1.62	843569.94	97.8	30 - 200	
72 Ge	144040.45	2.06	145277.55	99.1	30 - 200	
115 In	1315937.60	0.50	1318660.10	99.8	30 - 200	
209 Bi	1191458.10	0.67	1180918.00	100.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\006CALI.D\006CALI.D#
Date Acquired: Dec 21 2004 08:15 pm
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:12 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	625353.19	A	4282.00	0.68
9	Be	1087.78	P	17.11	1.57
23	Na	792005.31	A	5237.00	0.66
26	Mg	47836.66	P	523.20	1.09
27	Al	7164.44	P	160.20	2.24
39	K	1286322.00	A	13630.00	1.06
44	Ca	15405.89	P	400.80	2.60
45	Sc	825472.13	A	2776.00	0.34
51	V	6687.24	P	429.30	6.42
52	Cr	7465.56	P	228.00	3.05
55	Mn	6513.33	P	65.57	1.01
57	Fe	18008.89	P	480.00	2.67
59	Co	5128.89	P	213.00	4.15
60	Ni	1133.33	P	26.46	2.33
65	Cu	1502.01	P	28.35	1.89
66	Zn	1269.13	P	33.39	2.63
72	Ge	142092.91	P	1746.00	1.23
75	As	407.63	P	268.00	65.75
82	Se	1950.25	P	133.30	6.84
95	Mo	1424.44	P	78.20	5.49
109	Ag	3412.22	P	149.20	4.37
111	Cd	953.87	P	68.81	7.21
115	In	1299759.00	A	4059.00	0.31
121	Sb	3158.89	P	95.76	3.03
137	Ba	1298.89	P	44.76	3.45
205	Tl	10753.33	P	645.80	6.01
208	Pb	10052.22	P	127.90	1.27
209	Bi	1172861.00	A	9720.00	0.83
232	Th	3436.67	P	251.30	7.31
238	U	9428.89	P	60.77	0.64

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	625353.13	0.68	634616.44	98.5	30 - 200	
45 Sc	825472.13	0.34	843569.94	97.9	30 - 200	
72 Ge	142092.89	1.23	145277.55	97.8	30 - 200	
115 In	1299759.00	0.31	1318660.10	98.6	30 - 200	
209 Bi	1172861.00	0.83	1180918.00	99.3	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\007CALI.D\007CALI.D#
Date Acquired: Dec 21 2004 08:21 pm
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:17 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	623835.63	A	2820.00	0.45
9	Be	7873.33	P	160.10	2.03
23	Na	4599521.00	A	67220.00	1.46
26	Mg	391520.00	P	3914.00	1.00
27	Al	33544.44	P	776.10	2.31
39	K	4489974.00	A	22220.00	0.49
44	Ca	104373.30	P	1398.00	1.34
45	Sc	827338.00	A	10950.00	1.32
51	V	45021.19	P	562.90	1.25
52	Cr	39982.22	P	699.50	1.75
55	Mn	48272.22	P	1117.00	2.31
57	Fe	102412.20	P	2063.00	2.01
59	Co	39347.78	P	567.40	1.44
60	Ni	8572.22	P	123.00	1.43
65	Cu	9626.07	P	497.50	5.17
66	Zn	5638.62	P	123.50	2.19
72	Ge	144159.80	P	3204.00	2.22
75	As	5171.12	P	152.70	2.95
82	Se	2353.08	P	91.89	3.91
95	Mo	11706.67	P	265.20	2.27
109	Ag	26834.44	P	579.20	2.16
111	Cd	5821.22	P	212.40	3.65
115	In	1303789.00	A	9231.00	0.71
121	Sb	24812.22	P	755.80	3.05
137	Ba	9268.89	P	407.80	4.40
205	Tl	58253.33	P	1665.00	2.86
208	Pb	77177.78	P	1778.00	2.30
209	Bi	1168353.00	A	10450.00	0.89
232	Th	30256.67	P	633.60	2.09
238	U	75324.44	P	2545.00	3.38

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	623835.63	0.45	634616.44	98.3	30 - 200	
45 Sc	827338.00	1.32	843569.94	98.1	30 - 200	
72 Ge	144159.78	2.22	145277.55	99.2	30 - 200	
115 In	1303789.40	0.71	1318660.10	98.9	30 - 200	
209 Bi	1168353.50	0.89	1180918.00	98.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\008CALI.D\008CALI.D#
Date Acquired: Dec 21 2004 08:26 pm
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:23 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	618187.13	A	7730.00	1.25
9	Be	95267.78	P	1485.00	1.56
23	Na	52257380.00	A	350900.00	0.67
26	Mg	5015455.00	A	102200.00	2.04
27	Al	380163.31	P	7864.00	2.07
39	K	45008632.00	A	260200.00	0.58
44	Ca	1414829.00	A	17430.00	1.23
45	Sc	816195.19	A	10310.00	1.26
51	V	542346.00	P	12400.00	2.29
52	Cr	461771.09	P	11720.00	2.54
55	Mn	589891.13	P	14370.00	2.44
57	Fe	1323696.00	A	10220.00	0.77
59	Co	479061.09	P	14280.00	2.98
60	Ni	101701.10	P	3526.00	3.47
65	Cu	111215.70	P	2929.00	2.63
66	Zn	62577.30	P	1689.00	2.70
72	Ge	146403.59	P	5341.00	3.65
75	As	66488.38	P	2072.00	3.12
82	Se	6133.33	P	367.70	6.00
95	Mo	145547.80	P	3538.00	2.43
109	Ag	329813.31	P	8924.00	2.71
111	Cd	70803.99	P	1873.00	2.65
115	In	1257001.00	A	12500.00	0.99
121	Sb	312685.50	P	9233.00	2.95
137	Ba	112682.20	P	3501.00	3.11
205	Tl	795375.38	A	6153.00	0.77
208	Pb	967805.31	M	57040.00	5.89
209	Bi	1134715.00	A	5402.00	0.48
232	Th	956973.38	A	43290.00	4.52
238	U	1121611.00	A	18000.00	1.60

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	618187.06	1.25	634616.44	97.4	30 - 200	
45 Sc	816195.25	1.26	843569.94	96.8	30 - 200	
72 Ge	146403.55	3.65	145277.55	100.8	30 - 200	
115 In	1257000.80	0.99	1318660.10	95.3	30 - 200	
209 Bi	1134715.30	0.48	1180918.00	96.1	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2119c.B\009CALI.D\009CALI.D#
Date Acquired: Dec 21 2004 08:31 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 21 2004 08:28 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	619317.13	A	6777.00	1.09
9	Be	191665.59	P	3202.00	1.67
23	Na	102623200.00	A	443100.00	0.43
26	Mg	9875007.00	A	92470.00	0.94
27	Al	825775.81	A	9052.00	1.10
39	K	88063056.00	A	1145000.00	1.30
44	Ca	2772377.00	A	31300.00	1.13
45	Sc	816774.00	A	9017.00	1.10
51	V	1241264.00	A	18810.00	1.52
52	Cr	1008405.00	A	16360.00	1.62
55	Mn	1305603.00	A	9815.00	0.75
57	Fe	2569018.00	A	25810.00	1.00
59	Co	1048715.00	A	10740.00	1.02
60	Ni	202656.70	P	5462.00	2.70
65	Cu	221565.91	P	6003.00	2.71
66	Zn	122746.00	P	3349.00	2.73
72	Ge	148922.00	P	4014.00	2.70
75	As	134928.70	P	3996.00	2.96
82	Se	10473.34	P	346.50	3.31
95	Mo	294483.31	P	6668.00	2.26
109	Ag	734777.69	A	67490.00	9.19
111	Cd	141474.09	P	3828.00	2.71
115	In	1262255.00	A	17700.00	1.40
121	Sb	685715.69	A	5937.00	0.87
137	Ba	225771.09	P	5920.00	2.62
205	Tl	1586256.00	A	19340.00	1.22
208	Pb	2010509.00	A	44710.00	2.22
209	Bi	1130154.00	A	5420.00	0.48
232	Th	2208394.00	A	44390.00	2.01
238	U	2209062.00	A	10770.00	0.49

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	619317.06	1.09	634616.44	97.6	30 - 200	
45 Sc	816774.00	1.10	843569.94	96.8	30 - 200	
72 Ge	148922.00	2.70	145277.55	102.5	30 - 200	
115 In	1262254.60	1.40	1318660.10	95.7	30 - 200	
209 Bi	1130154.10	0.48	1180918.00	95.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2119c.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 21, 2004 20:53
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412119c.b\003calb.d\	003calb.d#	Dec 21 2004 08:00 pm
2	...hem\1\data\0412119c.b\004cali.d\	004cali.d#	Dec 21 2004 08:05 pm
3	...hem\1\data\0412119c.b\005cali.d\	005cali.d#	Dec 21 2004 08:10 pm
4	...hem\1\data\0412119c.b\006cali.d\	006cali.d#	Dec 21 2004 08:15 pm
5	...hem\1\data\0412119c.b\007cali.d\	007cali.d#	Dec 21 2004 08:21 pm
6	...hem\1\data\0412119c.b\008cali.d\	008cali.d#	Dec 21 2004 08:26 pm
7	...hem\1\data\0412119c.b\009cali.d\	009cali.d#	Dec 21 2004 08:31 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 7.742E-2*X -2.266E-2	1.0000	ppb
Na	23	45	Y = 3.146E-1*X +9.890E+0	0.9999	ppb
Mg	25	45	Y = 2.650E-2*X -5.490E-1	0.9999	ppb
Mg	26	45	Y = 3.037E-2*X -8.761E-1	0.9999	ppb
Al	27	45	Y = 2.493E-1*X -9.096E-2	0.9991	ppb
K	39	45	Y = 2.680E-1*X +4.466E+1	0.9999	ppb
Ca	43	45	Y = 4.770E-4*X -1.618E-2	0.9999	ppb
Ca	44	45	Y = 8.529E-3*X -1.833E-1	0.9998	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.055E+0*X -2.962E+0	0.9986	ppb
Cr	52	72	Y = 1.675E+0*X -9.574E-1	0.9994	ppb
Cr	53	72	Y = 1.757E-1*X +1.500E+0	0.9999	ppb
Fe	54	72	Y = 1.046E-1*X +2.084E+0	0.9998	ppb
Mn	55	72	Y = 2.169E+0*X -2.124E+0	0.9993	ppb
Fe	57	72	Y = 4.342E-2*X +2.100E+0	0.9997	ppb
Co	59	72	Y = 1.745E+0*X -1.602E+0	0.9994	ppb
Ni	60	72	Y = 3.415E-1*X +1.272E-2	0.9999	ppb
Cu	63	72	Y = 7.895E-1*X +6.890E-1	0.9999	ppb
Cu	65	72	Y = 3.727E-1*X +1.225E-1	0.9999	ppb
Zn	66	72	Y = 2.062E-1*X +2.286E-1	0.9998	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.275E-1*X -1.559E-1	1.0000	ppb
(As)	77	72	Y = 1.041E-2*X +2.772E-1	0.9998	ppb
Se	82	72	Y = 1.426E-2*X +6.657E-1	1.0000	ppb
(As)	83	72	Y = 4.302E-4*X +7.207E+0	0.3530	ppb
(Ca)	88	72	Y = 7.921E-3*X +6.132E-2	0.9999	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 4.956E-1*X -1.293E-1	1.0000	ppb
Mo	98	72	Y = 8.011E-1*X -2.457E-1	1.0000	ppb
(Mo)	99	72	Y = 1.318E-5*X +1.879E-2	0.5009	ppb
(Cd)	106	72	Y = 2.158E-2*X +1.196E-1	0.9999	ppb
(Cd)	108	72	Y = 1.602E-2*X +1.836E-2	0.9999	ppb
Ag	109	72	Y = 1.219E+0*X -1.339E+0	0.9992	ppb
Cd	111	72	Y = 2.380E-1*X +4.564E-2	0.9999	ppb
Cd	114	72	Y = 5.649E-1*X -3.282E-2	0.9999	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.345E-1*X -1.640E-1	0.9992	ppb
Ba	135	115	Y = 2.585E-2*X -6.725E-3	0.9999	ppb
Ba	137	115	Y = 4.479E-2*X -1.134E-2	0.9999	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.510E-1*X -6.305E-2	0.9999	ppb
(Pb)	206	209	Y = 1.051E-1*X -3.564E-2	0.9999	ppb
(Pb)	207	209	Y = 9.189E-2*X -3.604E-2	0.9999	ppb
Pb	208	209	Y = 4.429E-1*X -3.381E-1	0.9998	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 4.842E-1*X -1.569E+0	0.9976	ppb
U	238	209	Y = 4.913E-1*X -2.945E-1	0.9998	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 54513829012 Filename : l2119012 Injected : 21-DEC-2004 20:48
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	100.0000	92.36000	ug/L	-8	10	
Antimony	100.0000	92.04000	ug/L	-8	10	
Arsenic	100.0000	100.5000	ug/L	1	10	
Barium	100.0000	98.63000	ug/L	-1	10	
Beryllium	100.0000	100.1000	ug/L	0	10	
Cadmium	100.0000	100.6000	ug/L	1	10	
Calcium	10000.00	10160.00	ug/L	2	10	
Chromium	100.0000	93.12000	ug/L	-7	10	
Cobalt	100.0000	92.99000	ug/L	-7	10	
Copper	100.0000	100.8000	ug/L	1	10	
Iron	10000.00	10320.00	ug/L	3	10	
Lead	100.0000	95.08000	ug/L	-5	10	
Magnesium	10000.00	10030.00	ug/L	0	10	
Manganese	100.0000	95.54000	ug/L	-4	10	
Molybdenum	100.0000	99.63000	ug/L	0	10	
Nickel	100.0000	100.9000	ug/L	1	10	
Potassium	10000.00	10030.00	ug/L	0	10	
Selenium	100.0000	101.8000	ug/L	2	10	
Silver	100.0000	92.49000	ug/L	-8	10	
Sodium	10000.00	10060.00	ug/L	1	10	
Thallium	100.0000	99.03000	ug/L	-1	10	
Vanadium	100.0000	89.83000	ug/L	-10	10	
Zinc	100.0000	101.6000	ug/L	2	10	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	619330	-2.41
Scandium	843570	830140	-1.59
Germanium	145278	149066	2.61
Indium	1318660	1285820	-2.49
Bismuth	1180918	1146701	-2.90
Terbium	1823764	1790577	-1.82

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829028
Run Name :
Filename : l2119028
IDF : 1.0
Injected : 21-DEC-2004 22:21
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2418	150.0000	145.7000	ug/L	-3	10	
Antimony	0.1210	150.0000	136.0000	ug/L	-9	10	
Arsenic	0.2217	150.0000	146.9000	ug/L	-2	10	
Barium	0.0437	150.0000	146.4000	ug/L	-2	10	
Beryllium	0.0760	150.0000	147.5000	ug/L	-2	10	
Cadmium	0.2338	150.0000	147.1000	ug/L	-2	10	
Calcium	0.0084	15000.00	14850.00	ug/L	-1	10	
Chromium	1.7341	150.0000	155.8000	ug/L	4	10	
Cobalt	1.8143	150.0000	156.8000	ug/L	5	10	
Copper	0.3783	150.0000	151.9000	ug/L	1	10	
Iron	0.0443	15000.00	15250.00	ug/L	2	10	
Lead	0.4360	150.0000	148.4000	ug/L	-1	10	
Magnesium	0.0302	15000.00	14920.00	ug/L	-1	10	
Manganese	2.2209	150.0000	154.5000	ug/L	3	10	
Molybdenum	0.4857	150.0000	147.2000	ug/L	-2	10	
Nickel	0.3459	150.0000	151.9000	ug/L	1	10	
Potassium	0.2666	15000.00	14750.00	ug/L	-2	10	
Selenium	0.0190	150.0000	152.8000	ug/L	2	10	
Silver	1.0977	150.0000	136.0000	ug/L	-9	10	
Sodium	0.3113	15000.00	14810.00	ug/L	-1	10	
Thallium	0.3532	150.0000	151.1000	ug/L	1	10	
Vanadium	2.1260	150.0000	156.5000	ug/L	4	10	
Zinc	0.2070	150.0000	149.5000	ug/L	0	10	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	608898	-4.05
Scandium	843570	821314	-2.64
Germanium	145278	147236	1.35
Indium	1318660	1262114	-4.29
Bismuth	1180918	1130000	-4.31
Terbium	1823764	1756501	-3.69

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829045
Run Name :
Filename : 12119045
IDF : 1.0
Injected : 22-DEC-2004 00:01
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2437	150.0000	146.9000	ug/L	-2	10	
Antimony	0.1214	150.0000	136.4000	ug/L	-9	10	
Arsenic	0.2219	150.0000	147.0000	ug/L	-2	10	
Barium	0.0443	150.0000	148.5000	ug/L	-1	10	
Beryllium	0.0762	150.0000	147.9000	ug/L	-1	10	
Cadmium	0.2337	150.0000	147.1000	ug/L	-2	10	
Calcium	0.0085	15000.00	15000.00	ug/L	0	10	
Chromium	1.7504	150.0000	157.3000	ug/L	5	10	
Cobalt	1.8503	150.0000	159.9000	ug/L	7	10	
Copper	0.3784	150.0000	152.0000	ug/L	1	10	
Iron	0.0449	15000.00	15480.00	ug/L	3	10	
Lead	0.4388	150.0000	149.3000	ug/L	0	10	
Magnesium	0.0303	15000.00	15000.00	ug/L	0	10	
Manganese	2.2475	150.0000	156.4000	ug/L	4	10	
Molybdenum	0.4814	150.0000	145.9000	ug/L	-3	10	
Nickel	0.3501	150.0000	153.8000	ug/L	3	10	
Potassium	0.2702	15000.00	14950.00	ug/L	0	10	
Selenium	0.0183	150.0000	146.3000	ug/L	-2	10	
Silver	1.0926	150.0000	135.4000	ug/L	-10	10	
Sodium	0.3166	15000.00	15060.00	ug/L	0	10	
Thallium	0.3492	150.0000	149.3000	ug/L	0	10	
Vanadium	2.1534	150.0000	158.6000	ug/L	6	10	
Zinc	0.2088	150.0000	150.8000	ug/L	1	10	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	594124	-6.38
Scandium	843570	790462	-6.30
Germanium	145278	141120	-2.86
Indium	1318660	1211300	-8.14
Bismuth	1180918	1111184	-5.91
Terbium	1823764	1706558	-6.43

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829060
Run Name :
Filename : 12119060
IDF : 1.0
Injected : 22-DEC-2004 01:28
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2412	100.0000	96.31000	ug/L	-4	10	
Antimony	0.1235	100.0000	92.55000	ug/L	-7	10	
Arsenic	0.2242	100.0000	99.20000	ug/L	-1	10	
Barium	0.0451	100.0000	100.8000	ug/L	1	10	
Beryllium	0.0759	100.0000	98.12000	ug/L	-2	10	
Cadmium	0.2379	100.0000	99.66000	ug/L	0	10	
Calcium	0.0087	10000.00	10150.00	ug/L	2	10	
Chromium	1.5908	100.0000	95.03000	ug/L	-5	10	
Cobalt	1.6661	100.0000	95.98000	ug/L	-4	10	
Copper	0.3874	100.0000	103.6000	ug/L	4	10	
Iron	0.0461	10000.00	10560.00	ug/L	6	10	
Lead	0.4168	100.0000	94.53000	ug/L	-5	10	
Magnesium	0.0313	10000.00	10320.00	ug/L	3	10	
Manganese	2.0544	100.0000	95.23000	ug/L	-5	10	
Molybdenum	0.4856	100.0000	98.11000	ug/L	-2	10	
Nickel	0.3575	100.0000	104.6000	ug/L	5	10	
Potassium	0.2767	10000.00	10150.00	ug/L	2	10	
Selenium	0.0199	100.0000	93.32000	ug/L	-7	10	
Silver	1.1215	100.0000	92.64000	ug/L	-7	10	
Sodium	0.3195	10000.00	10120.00	ug/L	1	10	
Thallium	0.3428	100.0000	97.38000	ug/L	-3	10	
Vanadium	1.8730	100.0000	91.84000	ug/L	-8	10	
Zinc	0.2147	100.0000	103.1000	ug/L	3	10	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	580495	-8.53
Scandium	843570	769347	-8.80
Germanium	145278	137505	-5.35
Indium	1318660	1183209	-10.27
Bismuth	1180918	1098346	-6.99
Terbium	1823764	1656554	-9.17

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829003 Run Name: std-blk Injected: 21-DEC-2004 20:00
Filename: 12119003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829013 Run Name: Injected: 21-DEC-2004 20:54
Filename: 12119013 Run Type: ICB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.2289]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	[0.4158]	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	[0.1848]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829031 Run Name:
Filename: 12119031 Run Type: CCB

Injected: 21-DEC-2004 22:38

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829047 Run Name:
Filename: l2119047 Run Type: CCB

Injected: 22-DEC-2004 00:12

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.0856]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	[0.0473]	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.1744]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829062 Run Name: Injected: 22-DEC-2004 01:40
Filename: l2119062 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54513829015 Run Name:
Filename: l2119015 Run Type: ICSA

Injected: 21-DEC-2004 21:05

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.452000	0.250000	ug/L	<RL
Arsenic	0.746600	0.500000	ug/L	<RL
Barium	0.901100	0.250000	ug/L	<RL
Beryllium	[0.1353]	0.250000	ug/L	<RL
Cadmium	[0.0782]	0.250000	ug/L	<RL
Chromium	1.706000	0.500000	ug/L	<RL
Cobalt	2.533000	0.250000	ug/L	<RL
Copper	2.050000	0.500000	ug/L	<RL
Lead	1.410000	0.250000	ug/L	<RL
Manganese	1.754000	0.250000	ug/L	<RL
Nickel	2.790000	0.250000	ug/L	<RL
Selenium	5.897000	0.500000	ug/L	<RL
Silver	[0.1782]	0.250000	ug/L	<RL
Thallium	[0.0000]	0.500000	ug/L	<RL
Vanadium	[0.1716]	1.000000	ug/L	<RL
Zinc	4.850000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	95810	ug/L	96
Calcium	300000	305000	ug/L	102
Iron	250000	245600	ug/L	98
Magnesium	100000	99220	ug/L	99
Molybdenum	2000	2167	ug/L	108
Potassium	100000	102000	ug/L	102
Sodium	250000	243300	ug/L	97

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54513829016
Run Name :
Filename : 12119016
Injected : 21-DEC-2004 21:11
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	89430.00	ug/L	-11		
Arsenic	100.0000	102.3000	ug/L	2	20	
Cadmium	100.0000	92.04000	ug/L	-8	20	
Calcium	300000.0	284300.0	ug/L	-5		
Chromium	200.0000	194.1000	ug/L	-3	20	
Cobalt	200.0000	191.0000	ug/L	-5	20	
Copper	200.0000	184.3000	ug/L	-8	20	
Iron	250000.0	226900.0	ug/L	-9		
Magnesium	100000.0	92040.00	ug/L	-8		
Manganese	200.0000	193.1000	ug/L	-3	20	
Molybdenum	2000.000	1990.000	ug/L	-1		
Nickel	200.0000	188.9000	ug/L	-6	20	
Potassium	100000.0	94700.00	ug/L	-5		
Selenium	100.0000	102.1000	ug/L	2	20	
Silver	50.00000	42.57000	ug/L	-15	20	
Sodium	250000.0	225100.0	ug/L	-10		
Vanadium	200.0000	198.6000	ug/L	-1	20	
Zinc	100.0000	92.11000	ug/L	-8	20	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	538130	-15.20
Scandium	843570	810607	-3.91
Germanium	145278	150233	3.41
Indium	1318660	1179774	-10.53
Bismuth	1180918	974944	-17.44
Terbium	1823764	1689112	-7.38

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 54513829058 Filename : 12119058 Injected : 22-DEC-2004 01:17
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	93450.00	ug/L	-7		
Arsenic	100.0000	101.0000	ug/L	1	20	
Cadmium	100.0000	91.80000	ug/L	-8	20	
Calcium	300000.0	285100.0	ug/L	-5		
Chromium	200.0000	198.3000	ug/L	-1	20	
Cobalt	200.0000	196.5000	ug/L	-2	20	
Copper	200.0000	184.9000	ug/L	-8	20	
Iron	250000.0	232200.0	ug/L	-7		
Magnesium	100000.0	95770.00	ug/L	-4		
Manganese	200.0000	199.2000	ug/L	0	20	
Molybdenum	2000.000	1993.000	ug/L	0		
Nickel	200.0000	190.4000	ug/L	-5	20	
Potassium	100000.0	96370.00	ug/L	-4		
Selenium	100.0000	89.89000	ug/L	-10	20	
Silver	50.00000	42.66000	ug/L	-15	20	
Sodium	250000.0	235600.0	ug/L	-6		
Vanadium	200.0000	204.3000	ug/L	2	20	
Zinc	100.0000	92.83000	ug/L	-7	20	

ISTD (IB=12119003)	IB Abund	Abund	%Diff
Lithium	634616	523774	-17.47
Scandium	843570	737817	-12.54
Germanium	145278	136000	-6.39
Indium	1318660	1083330	-17.85
Bismuth	1180918	967106	-18.11
Terbium	1823764	1584831	-13.10

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

equence: 54513829 Instrument: MET05 Agilent ICP-MS Begun: 21-DEC-2004
nalytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
01	l2119001	TUN				21-DEC-2004 19:49	1.0	1.0			1	
03	l2119003	IB	std-blk			21-DEC-2004 20:00	1.0	1.0			2	
04	l2119004	ICAL	ca1			21-DEC-2004 20:05	1.0				3 2	
05	l2119005	ICAL	cs2			21-DEC-2004 20:10	1.0				4 2	
06	l2119006	ICAL	cs3			21-DEC-2004 20:15	1.0				5 2	
07	l2119007	ICAL	cs4			21-DEC-2004 20:21	1.0				6 2	
08	l2119008	ICAL	cs5			21-DEC-2004 20:26	1.0				7 2	
09	l2119009	ICAL	cs6			21-DEC-2004 20:31	1.0				8 2	
12	l2119012	ICV				21-DEC-2004 20:48	1.0	1.0			9 2	
13	l2119013	ICB				21-DEC-2004 20:54	1.0	1.0			2	
15	l2119015	ICSA				21-DEC-2004 21:05	1.0	1.0			10 2	7:CA=305000
16	l2119016	ICSAB				21-DEC-2004 21:11	1.0	1.0			11 2	7:CA=284300
18	l2119018	BLANK	QC276516	97537	Filtra	21-DEC-2004 21:23	1.0	1.0			2	
20	l2119020	BS	QC276517	97537	Filtra	21-DEC-2004 21:34	1.0	1.0			2	
21	l2119021	BSD	QC276518	97537	Filtra	21-DEC-2004 21:40	1.0	1.0			2	
23	l2119023	MSS	176662-001	97537	Filtra	21-DEC-2004 21:52	1.0	1.0	4		2	3:MG=156700
24	l2119024	SER	QC276521	97537	Filtra	21-DEC-2004 21:58	5.0	1.0	2	1	2	1:MG=31640.0
25	l2119025	MS	QC276519	97537	Filtra	21-DEC-2004 22:04	1.0	1.0	2		2	5:MG=168800
26	l2119026	MSD	QC276520	97537	Filtra	21-DEC-2004 22:09	1.0	1.0	2		2	5:MG=161600
28	l2119028	CCV				21-DEC-2004 22:21	1.0	1.0			12 2	
31	l2119031	CCB				21-DEC-2004 22:38	1.0	1.0			2	
32	l2119032	MSS	176662-001	97537	Filtra	21-DEC-2004 22:44	1.0	1.0	3		2	3:MG=158000
33	l2119033	X	rinse	97537		21-DEC-2004 22:50	1.0				2	
34	l2119034	MSS	176662-001	97537	Filtra	21-DEC-2004 22:56	10.0	1.0			2	
35	l2119035	SER	QC276521	97537	Filtra	21-DEC-2004 23:02	50.0	1.0		1	2	
36	l2119036	MS	QC276519	97537	Filtra	21-DEC-2004 23:08	20.0	1.0		2	2	
37	l2119037	MSD	QC276520	97537	Filtra	21-DEC-2004 23:14	20.0	1.0	1	1	2	
39	l2119039	SAMPLE	176662-002	97537	Filtra	21-DEC-2004 23:25	1.0	1.0	4		2	4:MG=189300
40	l2119040	SAMPLE	176662-003	97537	Filtra	21-DEC-2004 23:31	1.0	1.0	4		2	4:MG=95560.0
41	l2119041	SAMPLE	176662-004	97537	Filtra	21-DEC-2004 23:37	1.0	1.0	3		2	3:MG=135700
42	l2119042	SAMPLE	176662-005	97537	Filtra	21-DEC-2004 23:43	1.0	1.0	2		2	2:NA=109000

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2319 13=04WS2318

Analyst: [illegible] Date: 12/21/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54513829 Instrument: MET05 Agilent ICP-MS Begun: 21-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
043	l2119043	SAMPLE	176662-006	97537	Filtra	21-DEC-2004 23:49	1.0	1.0	3	2	3:NA=95200.0
045	l2119045	CCV				22-DEC-2004 00:01	1.0	1.0		12 2	
047	l2119047	CCB				22-DEC-2004 00:12	1.0	1.0		2	
049	l2119049	MSS	176662-001	97537	Filtra	22-DEC-2004 00:24	1.0	1.0	3	2	3:MG=155300
050	l2119050	SAMPLE	176662-007	97537	Filtra	22-DEC-2004 00:30	1.0	1.0	3	2	3:NA=109800
051	l2119051	SAMPLE	176662-008	97537	Filtra	22-DEC-2004 00:36	1.0	1.0	3	2	3:NA=179200
052	l2119052	SAMPLE	176662-009	97537	Water	22-DEC-2004 00:42	1.0	1.0	4	2	4:NA=54650.0
053	l2119053	SAMPLE	176662-009	97537	Filtra	22-DEC-2004 00:47	1.0	1.0	3	2	3:NA=54270.0
054	l2119054	SAMPLE	176662-010	97537	Filtra	22-DEC-2004 00:53	1.0	1.0	3	2	3:NA=122300
058	l2119058	ICSAB				22-DEC-2004 01:17	1.0	1.0		11 2	8:CA=285100
060	l2119060	CCV				22-DEC-2004 01:28	1.0	1.0		13 2	
062	l2119062	CCB				22-DEC-2004 01:40	1.0	1.0		2	

100

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2319 13=04WS2318

Analyst: [illegible] Date: 12/21/04

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\083ICSB.D\083ICSB.D#
Date Acquired: Dec 22 2004 07:16 pm
Acq. Method: 60200111.M
Operator:
Sample Name: icsab,04ws2316
Misc Info:
Vial Number: 1205
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Dec 22 2004 00:02 pm
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)	Flag
9 Be	0.10	ppb	36.81	---	80 - 120	
23 Na	238100.00	ppb	1.25	---	80 - 120	
26 Mg	96750.00	ppb	0.85	---	80 - 120	
27 Al	92900.00	ppb	1.11	---	80 - 120	
39 K	97660.00	ppb	1.18	---	80 - 120	
44 Ca	290200.00	ppb	0.62	---	80 - 120	
51 V	189.40	ppb	2.24	---	80 - 120	
52 Cr	186.50	ppb	2.07	200.00	80 - 120	
55 Mn	187.20	ppb	2.08	200.00	80 - 120	
57 Fe	216200.00	ppb	2.08	---	80 - 120	
59 Co	179.30	ppb	2.15	200.00	80 - 120	
60 Ni	178.00	ppb	0.60	200.00	80 - 120	
65 Cu	175.50	ppb	0.51	200.00	80 - 120	
66 Zn	88.31	ppb	1.54	100.00	80 - 120	
75 As	97.61	ppb	0.48	100.00	80 - 120	
82 Se	91.90	ppb	4.27	100.00	80 - 120	
95 Mo	1948.00	ppb	2.61	2000.00	80 - 120	
109 Ag	43.61	ppb	1.48	50.00	80 - 120	
111 Cd	90.74	ppb	1.29	100.00	80 - 120	
121 Sb	2.38	ppb	4.39	---	80 - 120	
137 Ba	0.69	ppb	10.17	---	80 - 120	
205 Tl	0.10	ppb	36.87	---	80 - 120	
208 Pb	1.28	ppb	0.69	---	80 - 120	
232 Th	--------	ppb	--------	---	80 - 120	
238 U	--------	ppb	--------	---	80 - 120	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	471056.06	1.79	533977.81	88.2	30 - 120	
45 Sc	543310.00	1.43	549173.31	98.9	30 - 120	
72 Ge	110672.45	2.95	107898.45	102.6	30 - 120	

115 In	800142.13	1.25	920762.25	86.9	30 -	120
209 Bi	709884.06	0.82	812644.44	87.4	30 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

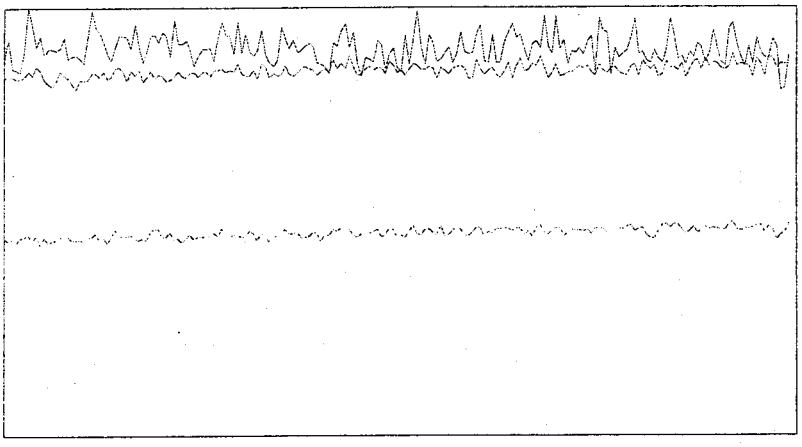
0 :Element Failures 20 :Max. Number of Failures Allowed
0 :ISTD Failures 6 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
ISTD: Pass

Tune Report

Tune File : ATUNE.U



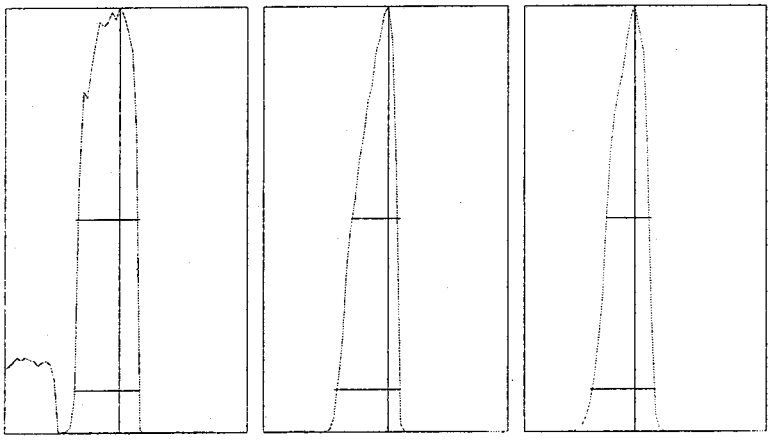
m/z:	7	89	205
Range:	10,000	20,000	50,000
Count:	8,882	17,314	24,876
Mean:	9057.4	17051.5	23847.4
RSD%:	3.78	1.67	2.26
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.45%
Doubly Charged:	70/140	0.84%

Background:

m/z:	7	89	205
Cps:	77.5	38.6	34.8



m/z:	7	89	205
Height:	9,272	17,697	26,916
Axis:	6.95	89.05	204.90
W-50%:	0.80	0.60	0.55
W-10%:	0.800	0.800	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-130 V	AMU Gain:	128
RF Matching:	1.68 V	Extract 2:	-46 V	AMU Offset:	125
Smpl Depth:	8.4 mm	Einzel 1,3:	-126 V	Axis Gain:	1.0002
Torch-H:	1.1 mm	Einzel 2:	16 V	Axis Offset:	-0.06
Torch-V:	0.1 mm	Omega Bias:	-68 V	QP Bias:	0 V
Carrier Gas:	1.03 L/min	Omega (+):	3 V		
Makeup Gas:	0 L/min	Omega (-):	2 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	2 V	Discriminator:	9.2 mV
PeriPump1:	0.1 rps	Plate Bias:	0 V	Analog HV:	1840 V
PeriPump2:	--- rps			Pulse HV:	1400 V
S/C Temp:	2 degC				

Generated : Dec 22, 2004 10:44:13
Printed : Dec 22, 2004 10:44:23

P/A Factor Tuning Report

Acquired:Dec 22 2004 10:53 am

Mass[amu]	Element	P/A Factor
6	Li	0.066342
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.076352
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.078567
45	Sc	0.077623
51	V	0.076851
52	Cr	0.075658
53	Cr	Sensitivity too low
54	Fe	0.075637
55	Mn	0.075676
57	Fe	0.075711
59	Co	0.073989
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.072838
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.068654
118	(In)	0.068834
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.068167
166	Er	Sensitivity too low

205	Tl	0.063693
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.063287
209	Bi	0.063746
232	Th	0.064393
238	U	0.064683

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 22 2004 11:00 am

Mass[amu]	Element	P/A Factor
6	Li	0.066514
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076747
26	Mg	0.076732
27	Al	0.074943
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.076465
45	Sc	0.076700
51	V	0.076851
52	Cr	0.075658
53	Cr	Sensitivity too low
54	Fe	0.074459
55	Mn	0.075676
57	Fe	0.073481
59	Co	0.073989
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.071896
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.067534
118	(In)	0.068834
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.066995
166	Er	Sensitivity too low

205	Tl	0.063693
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.063287
209	Bi	0.062598
232	Th	0.064393
238	U	0.064683

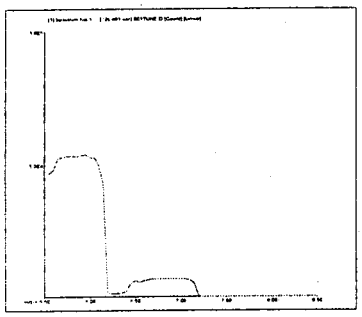
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

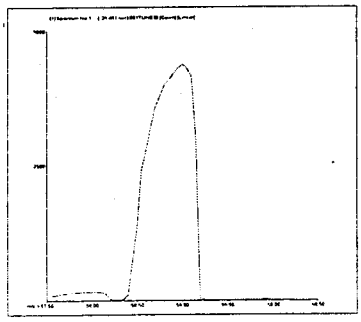
Data File: C:\ICPCHEM\1\DATA\04L2211a.B\001TUNE.D
Date Acquired: Dec 22 2004 11:18 am
Acq. Method: TN6020.M
Operator:
Sample Name: tun,04ws2314
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

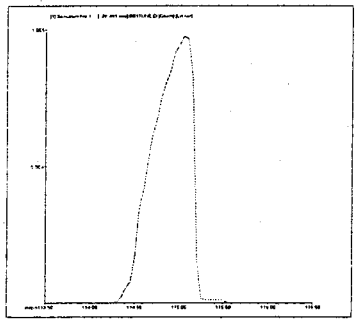
Element	Actual	Required	Flag
7 Li	2.52	5.00	
59 Co	1.28	5.00	
115 In	1.70	5.00	
205 Tl	1.87	5.00	



7 Li
Mass Calib.
Actual: 6.90
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



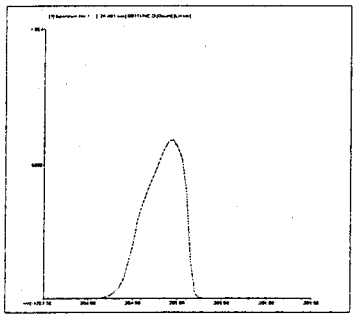
115 In

Mass Calib.

Actual:	115.05	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	204.95	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.55
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2211a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 22 2004 11:23 am
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 21 2004 08:33 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.0003736	ppb	3241.40	-0.000374	1.00	
23 Na	5.843	ppb	18.62	5.843	1.00	
26 Mg	-0.7392	ppb	28.41	-0.7392	1.00	
27 Al	-0.2803	ppb	22.11	-0.2803	1.00	
39 K	29.56	ppb	4.28	29.56	1.00	
44 Ca	10.64	ppb	10.46	10.64	1.00	
51 V	-0.03232	ppb	205.66	-0.03232	1.00	
52 Cr	0.02832	ppb	49.97	0.02832	1.00	
55 Mn	-0.0161	ppb	74.66	-0.0161	1.00	
57 Fe	21.26	ppb	23.90	21.26	1.00	
59 Co	0.01429	ppb	42.66	0.01429	1.00	
60 Ni	0.08209	ppb	7.71	0.08209	1.00	
65 Cu	0.008889	ppb	411.63	0.008889	1.00	
66 Zn	0.302	ppb	46.85	0.302	1.00	
75 As	0.6919	ppb	77.34	0.6919	1.00	
82 Se	-0.2848	ppb	1497.90	-0.2848	1.00	
95 Mo	-0.01449	ppb	67.47	-0.01449	1.00	
109 Ag	-0.01881	ppb	37.70	-0.01881	1.00	
111 Cd	-0.06094	ppb	78.65	-0.06094	1.00	
121 Sb	0.01026	ppb	23.91	0.01026	1.00	
137 Ba	0.02235	ppb	145.86	0.02235	1.00	
205 Tl	-0.5197	ppb	2.51	-0.5197	1.00	
208 Pb	0.02554	ppb	3.82	0.02554	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	536380.13	1.44	---	#VALUE!	30 - 200	
45 Sc	619120.44	0.37	---	#VALUE!	30 - 200	
72 Ge	108096.66	1.15	---	#VALUE!	30 - 200	

115 In	924754.94	1.79	---	#VALUE!	30 - 200
209 Bi	807835.94	1.03	---	#VALUE!	30 - 200

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2211a.B\003CAL
Date Acquired:	Dec 22 2004 11:29 am
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 21 2004 08:33 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	533977.81	A	10910.00	2.04
9	Be	80.00	P	32.83	41.04
23	Na	192377.80	P	3739.00	1.94
26	Mg	493.33	P	53.64	10.87
27	Al	4234.44	P	259.00	6.12
39	K	695050.69	A	1073.00	0.15
44	Ca	3127.01	P	105.30	3.37
45	Sc	549173.31	P	8003.00	1.46
51	V	782.75	P	165.70	21.17
52	Cr	2373.33	P	62.45	2.63
55	Mn	542.22	P	50.59	9.33
57	Fe	7562.22	P	403.80	5.34
59	Co	260.00	P	20.28	7.80
60	Ni	188.89	P	22.69	12.01
65	Cu	303.33	P	30.55	10.07
66	Zn	633.34	P	31.80	5.02
72	Ge	107898.40	P	1679.00	1.56
75	As	-175.95	P	67.11	38.14
82	Se	1312.42	P	25.34	1.93
95	Mo	60.00	P	8.82	14.70
109	Ag	87.78	P	1.93	2.19
111	Cd	200.11	P	29.09	14.54
115	In	920762.19	A	9496.00	1.03
121	Sb	137.78	P	26.94	19.55
137	Ba	137.78	P	13.88	10.07
205	Tl	2160.00	P	204.30	9.46
208	Pb	656.67	P	25.17	3.83
209	Bi	812644.38	A	12840.00	1.58
232	Th	731.11	P	44.01	6.02
238	U	40.00	P	14.53	36.33

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\004CALI.D\004CALI.D#
Date Acquired: Dec 22 2004 11:34 am
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:31 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	544793.88	A	9537.00	1.75
9 Be	65.56	P	10.18	15.53
23 Na	190701.09	P	2899.00	1.52
26 Mg	511.11	P	45.99	9.00
27 Al	4250.00	P	135.40	3.19
39 K	694125.88	A	6300.00	0.91
44 Ca	3288.60	P	43.97	1.34
45 Sc	619606.00	A	7455.00	1.20
51 V	846.85	P	111.10	13.12
52 Cr	2521.11	P	77.20	3.06
55 Mn	593.33	P	30.00	5.06
57 Fe	7362.22	P	52.10	0.71
59 Co	230.00	P	16.67	7.25
60 Ni	161.11	P	9.62	5.97
65 Cu	296.66	P	49.33	16.63
66 Zn	758.89	P	76.47	10.08
72 Ge	108194.00	P	2051.00	1.90
75 As	23.85	P	126.50	530.34
82 Se	1381.95	P	57.98	4.20
95 Mo	57.78	P	5.09	8.81
109 Ag	70.00	P	18.56	26.51
111 Cd	208.70	P	9.49	4.55
115 In	916673.50	A	14190.00	1.55
121 Sb	96.67	P	15.28	15.81
137 Ba	128.89	P	22.69	17.60
205 Tl	2286.67	P	233.80	10.22
208 Pb	784.44	P	20.09	2.56
209 Bi	826066.63	A	4944.00	0.60
232 Th	1234.44	P	62.92	5.10
238 U	38.89	P	10.18	26.18

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	544793.94	1.75	533977.81	102.0	30 - 200	
45 Sc	619605.94	1.20	549173.31	112.8	30 - 200	
72 Ge	108194.00	1.90	107898.45	100.3	30 - 200	
115 In	916673.50	1.55	920762.25	99.6	30 - 200	
209 Bi	826066.56	0.60	812644.44	101.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\005CALI.D\005CALI.D#
Date Acquired: Dec 22 2004 11:39 am
Operator:
Sample Name: cs2,04ws2311
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:36 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	532660.00	A	11160.00	2.10
9	Be	767.78	P	58.25	7.59
23	Na	604222.19	A	3307.00	0.55
26	Mg	34528.89	P	74.11	0.21
27	Al	6811.11	P	94.30	1.38
39	K	1013496.00	A	6490.00	0.64
44	Ca	11303.14	P	227.00	2.01
45	Sc	545786.63	P	7144.00	1.31
51	V	4894.21	P	315.10	6.44
52	Cr	5423.33	P	35.28	0.65
55	Mn	4562.22	P	246.40	5.40
57	Fe	15381.11	P	460.90	3.00
59	Co	3574.44	P	85.92	2.40
60	Ni	846.67	P	15.28	1.80
65	Cu	1140.96	P	10.72	0.94
66	Zn	1057.95	P	103.60	9.79
72	Ge	107565.30	P	1037.00	0.96
75	As	588.15	P	355.50	60.44
82	Se	1453.34	P	131.40	9.04
95	Mo	882.22	P	23.41	2.65
109	Ag	2068.89	P	56.40	2.73
111	Cd	612.37	P	30.07	4.91
115	In	914402.31	A	19950.00	2.18
121	Sb	2000.00	P	29.63	1.48
137	Ba	814.44	P	46.71	5.74
205	Tl	6026.67	P	237.60	3.94
208	Pb	6348.89	P	48.23	0.76
209	Bi	814607.69	A	4398.00	0.54
232	Th	3410.00	P	133.80	3.92
238	U	5926.67	P	58.12	0.98

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	532660.00	2.10	533977.81	99.8	30 - 200	
45 Sc	545786.63	1.31	549173.31	99.4	30 - 200	
72 Ge	107565.34	0.96	107898.45	99.7	30 - 200	
115 In	914402.38	2.18	920762.25	99.3	30 - 200	
209 Bi	814607.75	0.54	812644.44	100.2	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\006CALI.D\006CALI.D#
Date Acquired: Dec 22 2004 11:45 am
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:41 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	533056.38	A	5177.00	0.97
9 Be	902.22	P	20.09	2.23
23 Na	716589.31	A	6156.00	0.86
26 Mg	44665.55	P	604.30	1.35
27 Al	7432.22	P	202.20	2.72
39 K	1110964.00	A	3103.00	0.28
44 Ca	13779.83	P	446.20	3.24
45 Sc	567654.81	M	38070.00	6.71
51 V	5602.45	P	238.00	4.25
52 Cr	6432.22	P	51.68	0.80
55 Mn	5740.00	P	329.10	5.73
57 Fe	17955.55	P	260.40	1.45
59 Co	4535.56	P	66.78	1.47
60 Ni	1101.11	P	34.69	3.15
65 Cu	1294.25	P	115.30	8.91
66 Zn	1142.45	P	60.77	5.32
72 Ge	107612.00	P	1053.00	0.98
75 As	331.45	P	158.70	47.88
82 Se	1326.91	P	120.30	9.07
95 Mo	1164.44	P	22.19	1.91
109 Ag	2742.22	P	99.80	3.64
111 Cd	719.26	P	32.88	4.57
115 In	905170.38	A	12800.00	1.41
121 Sb	2588.89	P	75.01	2.90
137 Ba	1088.89	P	106.30	9.76
205 Tl	7205.56	P	294.30	4.08
208 Pb	8106.67	P	52.39	0.65
209 Bi	825525.19	A	7971.00	0.97
232 Th	4332.22	P	211.80	4.89
238 U	7815.56	P	166.90	2.14

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	533056.44	0.97	533977.81	99.8	30 - 200	
45 Sc	567654.81	6.71	549173.31	103.4	30 - 200	
72 Ge	107612.00	0.98	107898.45	99.7	30 - 200	
115 In	905170.38	1.41	920762.25	98.3	30 - 200	
209 Bi	825525.19	0.97	812644.44	101.6	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2211a.B\007CALI.D\007CALI.D#
Date Acquired:	Dec 22 2004 11:50 am
Operator:	
Sample Name:	cs4,04ws2313
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 22 2004 11:47 am
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	539303.63	A	6340.00	1.18
9	Be	7405.56	P	247.40	3.34
23	Na	4144117.00	A	46820.00	1.13
26	Mg	357268.91	P	3978.00	1.11
27	Al	32118.89	P	397.60	1.24
39	K	3832634.00	A	13500.00	0.35
44	Ca	89036.35	P	636.50	0.71
45	Sc	599768.88	M	39270.00	6.55
51	V	38924.36	P	387.30	1.00
52	Cr	34626.67	P	446.60	1.29
55	Mn	42125.55	P	820.10	1.95
57	Fe	91390.00	P	1639.00	1.79
59	Co	35118.89	P	584.60	1.66
60	Ni	7782.22	P	167.10	2.15
65	Cu	8524.00	P	100.80	1.18
66	Zn	5169.56	P	240.10	4.64
72	Ge	109457.30	P	1907.00	1.74
75	As	4343.75	P	128.20	2.95
82	Se	1687.53	P	118.40	7.02
95	Mo	8585.55	P	15.03	0.18
109	Ag	20801.11	P	405.20	1.95
111	Cd	4710.20	P	276.10	5.86
115	In	905055.31	A	17030.00	1.88
121	Sb	19998.89	P	478.10	2.39
137	Ba	7611.11	P	458.60	6.03
205	Tl	44164.44	P	1334.00	3.02
208	Pb	61130.00	P	793.30	1.30
209	Bi	829315.31	A	8285.00	1.00
232	Th	30757.78	P	1579.00	5.13
238	U	62614.44	P	1043.00	1.67

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	539303.63	1.18	533977.81	101.0	30 - 200	
45 Sc	599768.94	6.55	549173.31	109.2	30 - 200	
72 Ge	109457.34	1.74	107898.45	101.4	30 - 200	
115 In	905055.25	1.88	920762.25	98.3	30 - 200	
209 Bi	829315.25	1.00	812644.44	102.1	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\008CALI.D\008CALI.D#
Date Acquired: Dec 22 2004 11:55 am
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:52 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	533706.63	A	2772.00	0.52
9	Be	89142.22	P	2633.00	2.95
23	Na	46688152.00	A	36810.00	0.08
26	Mg	4482548.00	A	20270.00	0.45
27	Al	343190.00	P	2148.00	0.63
39	K	38089472.00	A	219800.00	0.58
44	Ca	1164097.00	A	9855.00	0.85
45	Sc	600632.63	M	32730.00	5.45
51	V	462720.50	P	7121.00	1.54
52	Cr	393265.50	P	6016.00	1.53
55	Mn	500756.59	P	10960.00	2.19
57	Fe	1115697.00	A	8079.00	0.72
59	Co	423865.50	P	5684.00	1.34
60	Ni	90433.33	P	2418.00	2.67
65	Cu	97159.22	P	887.00	0.91
66	Zn	53530.19	P	817.90	1.53
72	Ge	112241.30	P	1761.00	1.57
75	As	54651.49	P	1521.00	2.78
82	Se	4743.87	P	241.20	5.08
95	Mo	106604.40	P	2967.00	2.78
109	Ag	251012.20	P	8722.00	3.47
111	Cd	53460.32	P	1809.00	3.38
115	In	887967.69	A	7470.00	0.84
121	Sb	245862.20	P	7289.00	2.96
137	Ba	91881.11	P	3475.00	3.78
205	Tl	642299.50	A	5624.00	0.88
208	Pb	746192.19	P	20200.00	2.71
209	Bi	816005.69	A	5160.00	0.63
232	Th	738984.13	A	27320.00	3.70
238	U	921318.00	A	7781.00	0.84

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	533706.63	0.52	533977.81	99.9	30 - 200	
45 Sc	600632.56	5.45	549173.31	109.4	30 - 200	
72 Ge	112241.34	1.57	107898.45	104.0	30 - 200	
115 In	887967.69	0.84	920762.25	96.4	30 - 200	
209 Bi	816005.75	0.63	812644.44	100.4	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2211a.B\009CALI.D\009CALI.D#
Date Acquired: Dec 22 2004 12:00 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 22 2004 11:58 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	528238.63	A	8368.00	1.58
9	Be	180595.59	P	1589.00	0.88
23	Na	93568256.00	A	717700.00	0.77
26	Mg	8950549.00	A	24890.00	0.28
27	Al	732658.69	A	7964.00	1.09
39	K	75102120.00	A	1058000.00	1.41
44	Ca	2290388.00	A	24270.00	1.06
45	Sc	597087.81	M	38200.00	6.40
51	V	1073661.00	A	11910.00	1.11
52	Cr	875184.13	A	11510.00	1.32
55	Mn	1115126.00	A	8250.00	0.74
57	Fe	2186299.00	A	19970.00	0.91
59	Co	945615.38	A	6655.00	0.70
60	Ni	179486.70	P	3474.00	1.94
65	Cu	193017.50	P	3600.00	1.87
66	Zn	106281.40	P	2894.00	2.72
72	Ge	112349.60	P	2389.00	2.13
75	As	109973.30	P	2717.00	2.47
82	Se	8045.04	P	222.00	2.76
95	Mo	215505.59	P	4718.00	2.19
109	Ag	518687.91	A	79620.00	15.35
111	Cd	106853.00	P	3468.00	3.25
115	In	873546.81	A	13500.00	1.55
121	Sb	496941.09	P	12640.00	2.54
137	Ba	183836.70	P	5203.00	2.83
205	Tl	1220020.00	A	14770.00	1.21
208	Pb	1585820.00	A	19540.00	1.23
209	Bi	795678.81	A	4890.00	0.61
232	Th	1826706.00	A	28640.00	1.57
238	U	1824055.00	A	26450.00	1.45

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	528238.63	1.58	533977.81	98.9	30 - 200	
45 Sc	597087.81	6.40	549173.31	108.7	30 - 200	
72 Ge	112349.55	2.13	107898.45	104.1	30 - 200	
115 In	873546.81	1.55	920762.25	94.9	30 - 200	
209 Bi	795678.75	0.61	812644.44	97.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2211a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 22, 2004 12:04
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412211a.b\003calb.d\	003calb.d#	Dec 22 2004 11:29 am
2	...hem\1\data\0412211a.b\004cali.d\	004cali.d#	Dec 22 2004 11:34 am
3	...hem\1\data\0412211a.b\005cali.d\	005cali.d#	Dec 22 2004 11:39 am
4	...hem\1\data\0412211a.b\006cali.d\	006cali.d#	Dec 22 2004 11:45 am
5	...hem\1\data\0412211a.b\007cali.d\	007cali.d#	Dec 22 2004 11:50 am
6	...hem\1\data\0412211a.b\008cali.d\	008cali.d#	Dec 22 2004 11:55 am
7	...hem\1\data\0412211a.b\009cali.d\	009cali.d#	Dec 22 2004 12:00 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 8.531E-2*X -4.182E-2	0.9999	ppb
Na	23	45	Y = 3.918E-1*X +5.055E+0	1.0000	ppb
Mg	25	45	Y = 3.292E-2*X -1.345E+0	0.9999	ppb
Mg	26	45	Y = 3.763E-2*X -1.579E+0	0.9999	ppb
Al	27	45	Y = 3.031E-1*X +7.296E-3	0.9993	ppb
K	39	45	Y = 3.123E-1*X +5.431E+1	1.0000	ppb
Ca	43	45	Y = 5.551E-4*X -1.515E-2	0.9999	ppb
Ca	44	45	Y = 9.637E-3*X -1.412E-1	0.9999	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.348E+0*X -4.059E+0	0.9978	ppb
Cr	52	72	Y = 1.919E+0*X -1.762E+0	0.9988	ppb
Cr	53	72	Y = 2.044E-1*X +1.364E+0	1.0000	ppb
Fe	54	72	Y = 1.196E-1*X +9.347E-1	0.9999	ppb
Mn	55	72	Y = 2.448E+0*X -2.719E+0	0.9989	ppb
Fe	57	72	Y = 4.872E-2*X +2.245E+0	0.9999	ppb
Co	59	72	Y = 2.076E+0*X -2.481E+0	0.9988	ppb
Ni	60	72	Y = 3.999E-1*X +1.650E-2	1.0000	ppb
Cu	63	72	Y = 9.247E-1*X +3.118E-1	1.0000	ppb
Cu	65	72	Y = 4.295E-1*X +9.231E-2	1.0000	ppb
Zn	66	72	Y = 2.353E-1*X +2.534E-1	1.0000	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.451E-1*X -1.236E-1	1.0000	ppb
(As)	77	72	Y = 1.156E-2*X +2.357E-1	0.9999	ppb
Se	82	72	Y = 1.479E-2*X +6.262E-1	0.9998	ppb
(As)	83	72	Y = -1.287E-4*X +6.537E+0	-0.0838	ppb
(Ca)	88	72	Y = 7.635E-3*X +7.235E-2	0.9993	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 4.796E-1*X -1.816E-1	0.9999	ppb
Mo	98	72	Y = 7.742E-1*X -2.897E-1	1.0000	ppb
(Mo)	99	72	Y = 2.706E-5*X +1.639E-2	0.6144	ppb
(Cd)	106	72	Y = 2.100E-2*X +1.273E-1	0.9999	ppb
(Cd)	108	72	Y = 1.585E-2*X +2.183E-2	0.9997	ppb
Ag	109	72	Y = 1.153E+0*X -6.190E-1	0.9998	ppb
Cd	111	72	Y = 2.375E-1*X +3.793E-2	1.0000	ppb
Cd	114	72	Y = 5.760E-1*X -3.157E-2	0.9999	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.419E-1*X -8.380E-2	0.9999	ppb
Ba	135	115	Y = 3.040E-2*X -1.145E-2	0.9999	ppb
Ba	137	115	Y = 5.254E-2*X -2.080E-2	0.9999	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.857E-1*X -8.547E-2	0.9998	ppb
(Pb)	206	209	Y = 1.164E-1*X -5.494E-2	0.9999	ppb
(Pb)	207	209	Y = 1.026E-1*X -6.084E-2	0.9999	ppb
Pb	208	209	Y = 4.931E-1*X -5.279E-1	0.9992	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 5.621E-1*X -2.109E+0	0.9948	ppb
U	238	209	Excluded	---	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 54514758012 Filename : 12211012 Injected : 22-DEC-2004 12:17
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	100.0000	101.6000	ug/L	2	10	
Antimony	100.0000	100.8000	ug/L	1	10	
Arsenic	100.0000	102.0000	ug/L	2	10	
Barium	100.0000	100.3000	ug/L	0	10	
Beryllium	100.0000	102.4000	ug/L	2	10	
Cadmium	100.0000	103.2000	ug/L	3	10	
Calcium	10000.00	10570.00	ug/L	6	10	
Chromium	100.0000	93.40000	ug/L	-7	10	
Cobalt	100.0000	92.18000	ug/L	-8	10	
Copper	100.0000	102.7000	ug/L	3	10	
Iron	10000.00	10390.00	ug/L	4	10	
Lead	100.0000	96.03000	ug/L	-4	10	
Magnesium	10000.00	10750.00	ug/L	8	10	
Manganese	100.0000	93.76000	ug/L	-6	10	
Molybdenum	100.0000	99.39000	ug/L	-1	10	
Nickel	100.0000	102.2000	ug/L	2	10	
Potassium	10000.00	10600.00	ug/L	6	10	
Selenium	100.0000	98.36000	ug/L	-2	10	
Silver	100.0000	98.81000	ug/L	-1	10	
Sodium	10000.00	10630.00	ug/L	6	10	
Thallium	100.0000	99.37000	ug/L	-1	10	
Vanadium	100.0000	91.82000	ug/L	-8	10	
Zinc	100.0000	104.4000	ug/L	4	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	525092	-1.66
Scandium	549173	575189	4.74
Germanium	107898	111778	3.60
Indium	920762	877997	-4.64
Bismuth	812644	811268	-0.17
Terbium	1271294	1255603	-1.23

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758027

Run Name :
Filename : 12211027

IDF : 1.0
Injected : 22-DEC-2004 13:45
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3200	100.0000	105.1000	ug/L	5	10	
Antimony	0.1426	100.0000	100.8000	ug/L	1	10	
Arsenic	0.2480	100.0000	101.6000	ug/L	2	10	
Barium	0.0529	100.0000	101.0000	ug/L	1	10	
Beryllium	0.0839	100.0000	98.58000	ug/L	-1	10	
Cadmium	0.2394	100.0000	100.5000	ug/L	1	10	
Calcium	0.0105	10000.00	10890.00	ug/L	9	10	
Chromium	1.7520	100.0000	91.58000	ug/L	-8	10	
Cobalt	1.8938	100.0000	91.88000	ug/L	-8	10	
Copper	0.4401	100.0000	102.2000	ug/L	2	10	
Iron	0.0502	10000.00	10250.00	ug/L	3	10	
Lead	0.4680	100.0000	95.52000	ug/L	-4	10	
Magnesium	0.0413	10000.00	11010.00	ug/L	10	10	
Manganese	2.2420	100.0000	92.20000	ug/L	-8	10	
Molybdenum	0.4714	100.0000	98.51000	ug/L	-1	10	
Nickel	0.4023	100.0000	100.5000	ug/L	1	10	
Potassium	0.3474	10000.00	10940.00	ug/L	9	10	
Selenium	0.0205	100.0000	96.67000	ug/L	-3	10	
Silver	1.1149	100.0000	97.03000	ug/L	-3	10	
Sodium	0.4283	10000.00	10910.00	ug/L	9	10	
Thallium	0.3771	100.0000	97.78000	ug/L	-2	10	
Vanadium	2.1733	100.0000	93.50000	ug/L	-7	10	
Zinc	0.2460	100.0000	103.4000	ug/L	3	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	521370	-2.36
Scandium	549173	531574	-3.20
Germanium	107898	107172	-0.67
Indium	920762	836222	-9.18
Bismuth	812644	791095	-2.65
Terbium	1271294	1202156	-5.44

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758043

Run Name :
Filename : l2211043

IDF : 1.0
Injected : 22-DEC-2004 15:19
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3202	100.0000	105.2000	ug/L	5	10	
Antimony	0.1443	100.0000	102.0000	ug/L	2	10	
Arsenic	0.2473	100.0000	101.3000	ug/L	1	10	
Barium	0.0535	100.0000	102.0000	ug/L	2	10	
Beryllium	0.0830	100.0000	97.53000	ug/L	-2	10	
Cadmium	0.2483	100.0000	104.3000	ug/L	4	10	
Calcium	0.0104	10000.00	10780.00	ug/L	8	10	
Chromium	1.7650	100.0000	92.27000	ug/L	-8	10	
Cobalt	1.8800	100.0000	91.22000	ug/L	-9	10	
Copper	0.4355	100.0000	101.1000	ug/L	1	10	
Iron	0.0499	10000.00	10190.00	ug/L	2	10	
Lead	0.4818	100.0000	98.34000	ug/L	-2	10	
Magnesium	0.0411	10000.00	10950.00	ug/L	10	10	
Manganese	2.2497	100.0000	92.51000	ug/L	-7	10	
Molybdenum	0.4806	100.0000	100.4000	ug/L	0	10	
Nickel	0.4020	100.0000	100.4000	ug/L	0	10	
Potassium	0.3413	10000.00	10750.00	ug/L	8	10	
Selenium	0.0209	100.0000	99.21000	ug/L	-1	10	
Silver	1.1443	100.0000	99.59000	ug/L	0	10	
Sodium	0.4256	10000.00	10840.00	ug/L	8	10	
Thallium	0.3793	100.0000	98.36000	ug/L	-2	10	
Vanadium	2.2042	100.0000	94.83000	ug/L	-5	10	
Zinc	0.2427	100.0000	102.0000	ug/L	2	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	543775	1.83
Scandium	549173	560058	1.98
Germanium	107898	112287	4.07
Indium	920762	885689	-3.81
Bismuth	812644	840663	3.45
Terbium	1271294	1291287	1.57

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758049
Run Name :
Filename : 12211049
IDF : 1.0
Injected : 22-DEC-2004 15:54
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3249	100.0000	106.7000	ug/L	7	10	
Antimony	0.1458	100.0000	103.1000	ug/L	3	10	
Arsenic	0.2482	100.0000	101.7000	ug/L	2	10	
Barium	0.0540	100.0000	103.0000	ug/L	3	10	
Beryllium	0.0837	100.0000	98.33000	ug/L	-2	10	
Cadmium	0.2446	100.0000	102.7000	ug/L	3	10	
Calcium	0.0105	10000.00	10890.00	ug/L	9	10	
Chromium	1.7533	100.0000	91.65000	ug/L	-8	10	
Cobalt	1.8710	100.0000	90.78000	ug/L	-9	10	
Copper	0.4426	100.0000	102.8000	ug/L	3	10	
Iron	0.0496	10000.00	10120.00	ug/L	1	10	
Lead	0.4770	100.0000	97.36000	ug/L	-3	10	
Magnesium	0.0414	10000.00	11040.00	ug/L	10	10	
Manganese	2.2417	100.0000	92.18000	ug/L	-8	10	
Molybdenum	0.4870	100.0000	101.8000	ug/L	2	10	
Nickel	0.3988	100.0000	99.62000	ug/L	0	10	
Potassium	0.3453	10000.00	10870.00	ug/L	9	10	
Selenium	0.0209	100.0000	99.57000	ug/L	0	10	
Silver	1.1431	100.0000	99.49000	ug/L	-1	10	
Sodium	0.4257	10000.00	10840.00	ug/L	8	10	
Thallium	0.3717	100.0000	96.37000	ug/L	-4	10	
Vanadium	2.1816	100.0000	93.86000	ug/L	-6	10	
Zinc	0.2465	100.0000	103.6000	ug/L	4	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	516312	-3.31
Scandium	549173	536937	-2.23
Germanium	107898	109896	1.85
Indium	920762	850738	-7.61
Bismuth	812644	812231	-0.05
Terbium	1271294	1225138	-3.63

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758063
Run Name :
Filename : 12211063
IDF : 1.0
Injected : 22-DEC-2004 17:16
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3036	100.0000	99.65000	ug/L	0	10	
Antimony	0.1397	100.0000	98.81000	ug/L	-1	10	
Arsenic	0.2440	100.0000	99.98000	ug/L	0	10	
Barium	0.0519	100.0000	99.01000	ug/L	-1	10	
Beryllium	0.0832	100.0000	97.75000	ug/L	-2	10	
Cadmium	0.2431	100.0000	102.1000	ug/L	2	10	
Calcium	0.0103	10000.00	10650.00	ug/L	7	10	
Chromium	1.7432	100.0000	91.12000	ug/L	-9	10	
Cobalt	1.8558	100.0000	90.04000	ug/L	-10	10	
Copper	0.4302	100.0000	99.89000	ug/L	0	10	
Iron	0.0495	10000.00	10100.00	ug/L	1	10	
Lead	0.4610	100.0000	94.08000	ug/L	-6	10	
Magnesium	0.0400	10000.00	10660.00	ug/L	7	10	
Manganese	2.2208	100.0000	91.32000	ug/L	-9	10	
Molybdenum	0.4806	100.0000	100.4000	ug/L	0	10	
Nickel	0.3988	100.0000	99.63000	ug/L	0	10	
Potassium	0.3347	10000.00	10530.00	ug/L	5	10	
Selenium	0.0214	100.0000	102.7000	ug/L	3	10	
Silver	1.1371	100.0000	98.97000	ug/L	-1	10	
Sodium	0.4206	10000.00	10710.00	ug/L	7	10	
Thallium	0.3821	100.0000	99.08000	ug/L	-1	10	
Vanadium	2.0600	100.0000	88.61000	ug/L	**-11**	10	c- **
Zinc	0.2365	100.0000	99.35000	ug/L	-1	10	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	515187	-3.52
Scandium	549173	546539	-0.48
Germanium	107898	108464	0.52
Indium	920762	869833	-5.53
Bismuth	812644	820358	0.95
Terbium	1271294	1242135	-2.29

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05 Run Name : IDF : 1.0
Seqnum : 54514758077 Filename : l2211077 Injected : 22-DEC-2004 18:39
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2804	100.0000	91.94000	ug/L	-8	10	
Antimony	0.1393	100.0000	98.53000	ug/L	-1	10	
Arsenic	0.2439	100.0000	99.93000	ug/L	0	10	
Barium	0.0521	100.0000	99.32000	ug/L	-1	10	
Beryllium	0.0849	100.0000	99.81000	ug/L	0	10	
Cadmium	0.2398	100.0000	100.7000	ug/L	1	10	
Calcium	0.0095	10000.00	9848.000	ug/L	-2	10	
Chromium	1.7397	100.0000	90.93000	ug/L	-9	10	
Cobalt	1.8562	100.0000	90.06000	ug/L	-10	10	
Copper	0.4308	100.0000	100.0000	ug/L	0	10	
Iron	0.0492	10000.00	10030.00	ug/L	0	10	
Lead	0.4607	100.0000	94.02000	ug/L	-6	10	
Magnesium	0.0369	10000.00	9823.000	ug/L	-2	10	
Manganese	2.2179	100.0000	91.20000	ug/L	-9	10	
Molybdenum	0.4772	100.0000	99.72000	ug/L	0	10	
Nickel	0.3962	100.0000	98.96000	ug/L	-1	10	
Potassium	0.3132	10000.00	9841.000	ug/L	-2	10	
Selenium	0.0208	100.0000	98.87000	ug/L	-1	10	
Silver	1.1103	100.0000	96.63000	ug/L	-3	10	
Sodium	0.3933	10000.00	10010.00	ug/L	0	10	
Thallium	0.3838	100.0000	99.53000	ug/L	0	10	
Vanadium	2.0566	100.0000	88.47000	ug/L	**-12**	10	c- **
Zinc	0.2388	100.0000	100.4000	ug/L	0	10	

ISTD (IB=l2211003)	IB Abund	Abund	%Diff
Lithium	533978	515741	-3.42
Scandium	549173	598397	8.96
Germanium	107898	110314	2.24
Indium	920762	868641	-5.66
Bismuth	812644	815493	0.35
Terbium	1271294	1235379	-2.83

-=low bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
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Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758003 Run Name: std-blk Injected: 22-DEC-2004 11:29
Filename: 12211003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758014 Run Name:
Filename: l2211014 Run Type: ICB

Injected: 22-DEC-2004 12:29

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	ND	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	ND	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	ND	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	ND	50.00000	ug/L	<RL	
Manganese	ND	0.250000	ug/L	<RL	
Molybdenum	ND	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	1.387000	0.500000	ug/L	<RL	ib ***
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	ND	0.500000	ug/L	<RL	
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

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INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: 'MET05 Agilent ICP-MS
Seqnum: 54514758029 Run Name:
Filename: 12211029 Run Type: CCB

Injected: 22-DEC-2004 13:57

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	[0.1761]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758045 Run Name: Injected: 22-DEC-2004 15:30
Filename: l2211045 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	ND	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	ND	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	ND	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	ND	50.00000	ug/L	<RL	
Manganese	ND	0.250000	ug/L	<RL	
Molybdenum	ND	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	2.013000	0.500000	ug/L	<RL	ib ***
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	[0.2107]	0.500000	ug/L	<RL	
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument:'MET05 Agilent ICP-MS
Seqnum: 54514758051 Run Name: Injected: 22-DEC-2004 16:05
Filename: l2211051 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	ND	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	ND	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	ND	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	ND	50.00000	ug/L	<RL	
Manganese	ND	0.250000	ug/L	<RL	
Molybdenum	ND	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	2.769000	0.500000	ug/L	<RL	ib ***
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	ND	0.500000	ug/L	<RL	
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

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Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758065 Run Name: Injected: 22-DEC-2004 17:28
Filename: l2211065 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758078 Run Name: Injected: 22-DEC-2004 18:45
Filename: l2211078 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	0.312100	0.250000	ug/L	<RL	ib ***
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	[0.0468]	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	[7.5340]	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	[7.6390]	50.00000	ug/L	<RL	
Manganese	[0.0672]	0.250000	ug/L	<RL	
Molybdenum	0.672700	0.500000	ug/L	<RL	ib ***
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	ND	0.500000	ug/L	<RL	
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	0.785600	0.500000	ug/L	<RL	ib ***
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

ib=instrument blank

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid_ : MET05 Run Name : IDF : 1.0
Seqnum : 54514758085 Filename : l2211085 Injected : 22-DEC-2004 19:28
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.3067	100.0000	100.7000	ug/L	1	10	
Antimony	0.1385	100.0000	97.94000	ug/L	-2	10	
Arsenic	0.2422	100.0000	99.26000	ug/L	-1	10	
Barium	0.0520	100.0000	99.26000	ug/L	-1	10	
Beryllium	0.0808	100.0000	95.00000	ug/L	-5	10	
Cadmium	0.2425	100.0000	101.8000	ug/L	2	10	
Calcium	0.0102	10000.00	10620.00	ug/L	6	10	
Chromium	1.7428	100.0000	91.10000	ug/L	-9	10	
Cobalt	1.8558	100.0000	90.04000	ug/L	-10	10	
Copper	0.4337	100.0000	100.7000	ug/L	1	10	
Iron	0.0493	10000.00	10070.00	ug/L	1	10	
Lead	0.4601	100.0000	93.89000	ug/L	-6	10	
Magnesium	0.0403	10000.00	10730.00	ug/L	7	10	
Manganese	2.2247	100.0000	91.48000	ug/L	-9	10	
Molybdenum	0.4802	100.0000	100.4000	ug/L	0	10	
Nickel	0.3966	100.0000	99.07000	ug/L	-1	10	
Potassium	0.3394	10000.00	10680.00	ug/L	7	10	
Selenium	0.0210	100.0000	100.1000	ug/L	0	10	
Silver	1.1178	100.0000	97.28000	ug/L	-3	10	
Sodium	0.4195	10000.00	10680.00	ug/L	7	10	
Thallium	0.3770	100.0000	97.76000	ug/L	-2	10	
Vanadium	2.0510	100.0000	88.23000	ug/L	**-12**	10	c- **
Zinc	0.2382	100.0000	100.1000	ug/L	0	10	

ISTD (IB=l2211003)	IB Abund	Abund	%Diff
Lithium	533978	517183	-3.15
Scandium	549173	539092	-1.84
Germanium	107898	107713	-0.17
Indium	920762	855539	-7.08
Bismuth	812644	797306	-1.89
Terbium	1271294	1201522	-5.49

-=low bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758088 Run Name: Injected: 22-DEC-2004 19:46
Filename: l2211088 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54514758015 Run Name:
Filename: l2211015 Run Type: ICSA

Injected: 22-DEC-2004 12:34

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.263000	0.250000	ug/L	<RL
Arsenic	0.910700	0.500000	ug/L	<RL
Barium	0.682100	0.250000	ug/L	<RL
Beryllium	[0.0805]	0.250000	ug/L	<RL
Cadmium	[0.1726]	0.250000	ug/L	<RL
Chromium	1.534000	0.500000	ug/L	<RL
Cobalt	2.267000	0.250000	ug/L	<RL
Copper	1.777000	0.500000	ug/L	<RL
Lead	1.279000	0.250000	ug/L	<RL
Manganese	1.691000	0.250000	ug/L	<RL
Nickel	2.536000	0.250000	ug/L	<RL
Selenium	[0.2895]	0.500000	ug/L	<RL
Silver	[0.1822]	0.250000	ug/L	<RL
Thallium	[0.3474]	0.500000	ug/L	<RL
Vanadium	[0.1852]	1.000000	ug/L	<RL
Zinc	3.291000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	89960	ug/L	90
Calcium	300000	283900	ug/L	95
Iron	250000	218500	ug/L	87
Magnesium	100000	93860	ug/L	94
Molybdenum	2000	1980	ug/L	99
Potassium	100000	94600	ug/L	95
Sodium	250000	227900	ug/L	91

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 54514758016 Filename : l2211016 Injected : 22-DEC-2004 12:40
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	92500.00	ug/L	-8		
Arsenic	100.0000	101.8000	ug/L	2	20	
Cadmium	100.0000	92.13000	ug/L	-8	20	
Calcium	300000.0	290400.0	ug/L	-3		
Chromium	200.0000	188.3000	ug/L	-6	20	
Cobalt	200.0000	184.8000	ug/L	-8	20	
Copper	200.0000	182.1000	ug/L	-9	20	
Iron	250000.0	221700.0	ug/L	-11		
Magnesium	100000.0	95480.00	ug/L	-5		
Manganese	200.0000	191.4000	ug/L	-4	20	
Molybdenum	2000.000	1971.000	ug/L	-1		
Nickel	200.0000	184.6000	ug/L	-8	20	
Potassium	100000.0	97710.00	ug/L	-2		
Selenium	100.0000	97.75000	ug/L	-2	20	
Silver	50.00000	44.97000	ug/L	-10	20	
Sodium	250000.0	234800.0	ug/L	-6		
Vanadium	200.0000	192.1000	ug/L	-4	20	
Zinc	100.0000	92.34000	ug/L	-8	20	

ISTD (IB=l2211003)	IB Abund	Abund	%Diff
Lithium	533978	470800	-11.83
Scandium	549173	564142	2.73
Germanium	107898	113900	5.56
Indium	920762	800099	-13.10
Bismuth	812644	705046	-13.24
Terbium	1271294	1185121	-6.78

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758047

Run Name :
Filename : l2211047

Injected : 22-DEC-2004 15:42
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	94900.00	ug/L	-5		
Arsenic	100.0000	102.0000	ug/L	2	20	
Cadmium	100.0000	95.51000	ug/L	-4	20	
Calcium	300000.0	296800.0	ug/L	-1		
Chromium	200.0000	188.9000	ug/L	-6	20	
Cobalt	200.0000	182.0000	ug/L	-9	20	
Copper	200.0000	180.3000	ug/L	-10	20	
Iron	250000.0	219900.0	ug/L	-12		
Magnesium	100000.0	98520.00	ug/L	-1		
Manganese	200.0000	190.3000	ug/L	-5	20	
Molybdenum	2000.000	2021.000	ug/L	1		
Nickel	200.0000	183.9000	ug/L	-8	20	
Potassium	100000.0	99020.00	ug/L	-1		
Selenium	100.0000	93.00000	ug/L	-7	20	
Silver	50.00000	46.40000	ug/L	-7	20	
Sodium	250000.0	240200.0	ug/L	-4		
Vanadium	200.0000	191.3000	ug/L	-4	20	
Zinc	100.0000	90.09000	ug/L	-10	20	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	476920	-10.69
Scandium	549173	552676	0.64
Germanium	107898	113617	5.30
Indium	920762	823900	-10.52
Bismuth	812644	734551	-9.61
Terbium	1271294	1203386	-5.34

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54514758083
Run Name :
Filename : 12211083
Injected : 22-DEC-2004 19:16
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	92900.00	ug/L	-7		
Arsenic	100.0000	97.61000	ug/L	-2	20	
Cadmium	100.0000	90.74000	ug/L	-9	20	
Calcium	300000.0	290200.0	ug/L	-3		
Chromium	200.0000	186.5000	ug/L	-7	20	
Cobalt	200.0000	179.3000	ug/L	-10	20	
Copper	200.0000	175.5000	ug/L	-12	20	
Iron	250000.0	216200.0	ug/L	-14		
Magnesium	100000.0	96750.00	ug/L	-3		
Manganese	200.0000	187.2000	ug/L	-6	20	
Molybdenum	2000.000	1948.000	ug/L	-3		
Nickel	200.0000	178.0000	ug/L	-11	20	
Potassium	100000.0	97660.00	ug/L	-2		
Selenium	100.0000	91.90000	ug/L	-8	20	
Silver	50.00000	43.61000	ug/L	-13	20	
Sodium	250000.0	238100.0	ug/L	-5		
Vanadium	200.0000	189.4000	ug/L	-5	20	
Zinc	100.0000	88.31000	ug/L	-12	20	

ISTD (IB=12211003)	IB Abund	Abund	%Diff
Lithium	533978	471056	-11.78
Scandium	549173	543310	-1.07
Germanium	107898	110672	2.57
Indium	920762	800142	-13.10
Bismuth	812644	709884	-12.65
Terbium	1271294	1160748	-8.70

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54514758 Instrument: MET05 Agilent ICP-MS Begun: 22-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	l2211001	TUN				22-DEC-2004 11:18	1.0	1.0			1	
003	l2211003	IB	std-blk			22-DEC-2004 11:29	1.0	1.0			2	
004	l2211004	ICAL	cal			22-DEC-2004 11:34	1.0				3 2	
005	l2211005	ICAL	cs2			22-DEC-2004 11:39	1.0				4 2	
006	l2211006	ICAL	cs3			22-DEC-2004 11:45	1.0				5 2	
007	l2211007	ICAL	cs4			22-DEC-2004 11:50	1.0				6 2	
008	l2211008	ICAL	cs5			22-DEC-2004 11:55	1.0				7 2	
009	l2211009	ICAL	cs6			22-DEC-2004 12:00	1.0				8 2	
012	l2211012	ICV				22-DEC-2004 12:17	1.0	1.0			9 2	
014	l2211014	ICB				22-DEC-2004 12:29	1.0	1.0	1		2	
015	l2211015	ICSA				22-DEC-2004 12:34	1.0	1.0			10 2	7:CA=283900
016	l2211016	ICSAB				22-DEC-2004 12:40	1.0	1.0			11 2	7:CA=290400
018	l2211018	SAMPLE	176554-001	97577	Soil	22-DEC-2004 12:52	10.0	34.25	2		2	4:FE=62370.0
019	l2211019	SAMPLE	176554-002	97577	Soil	22-DEC-2004 12:58	10.0	44.25	2		2	5:CA=232900
020	l2211020	SAMPLE	176554-001	97577	Soil	22-DEC-2004 13:04	100.0	34.25	2		2	1:AL=3636.00
021	l2211021	SAMPLE	176554-002	97577	Soil	22-DEC-2004 13:10	100.0	44.25	1		2	2:CA=28060.0
022	l2211022	BLANK	QC275956	97398	Water	22-DEC-2004 13:16	1.0	1.0	1		2	
023	l2211023	BS	QC275957	97398	Water	22-DEC-2004 13:21	5.0	1.0	3	1	2	2:AL=483.400
024	l2211024	BSD	QC275958	97398	Water	22-DEC-2004 13:27	5.0	1.0	3	2	2 spk	2:AL=473.200
027	l2211027	CCV				22-DEC-2004 13:45	1.0	1.0			12 2	
029	l2211029	CCB				22-DEC-2004 13:57	1.0	1.0			2	
030	l2211030	MSS	176567-004	97398	Water	22-DEC-2004 14:03	5.0	1.0	4		2	2:NA=68760.0
031	l2211031	SER	QC275961	97398	Water	22-DEC-2004 14:08	25.0	1.0			2	
033	l2211033	MS	QC275959	97398	Water	22-DEC-2004 14:20	5.0	1.0	2		2	4:NA=64620.0
034	l2211034	MSD	QC275960	97398	Water	22-DEC-2004 14:26	5.0	1.0	2		2	4:NA=68080.0
035	l2211035	BS	QC275957	97398	Water	22-DEC-2004 14:32	2.0	1.0	9		2	8:AL=1204.50
036	l2211036	BSD	QC275958	97398	Water	22-DEC-2004 14:38	2.0	1.0	9		2	8:AL=1175.00
038	l2211038	MSS	176567-004	97398	Filtra	22-DEC-2004 14:49	1.0	1.0	4		2	4:NA=321100
039	l2211039	SAMPLE	176567-005	97398	Filtra	22-DEC-2004 14:55	1.0	1.0	1		2	5:NA=177000
040	l2211040	SAMPLE	176567-006	97398	Filtra	22-DEC-2004 15:01	1.0	1.0			2	3:NA=231900

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226

Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 12/22/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54514758 Instrument: MET05 Agilent ICP-MS Begun: 22-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
041	l2211041	SAMPLE	176567-014	97398	Filtra	22-DEC-2004 15:07	1.0	1.0	2		2	4:NA=313900
043	l2211043	CCV				22-DEC-2004 15:19	1.0	1.0			12 2	
045	l2211045	CCB				22-DEC-2004 15:30	1.0	1.0	1		2	
046	l2211046	PDS	QC277415	97398	Filtra	22-DEC-2004 15:36	1.0	1.0	1		13 2	4:NA=322700
047	l2211047	ICSAB				22-DEC-2004 15:42	1.0	1.0			11 2	7:CA=296800
049	l2211049	CCV				22-DEC-2004 15:54	1.0	1.0			12 2	
051	l2211051	CCB				22-DEC-2004 16:05	1.0	1.0	1		2	
052	l2211052	SAMPLE	176662-002	97537	Filtra	22-DEC-2004 16:11	5.0	1.0	2		2	1:MG=40560.0
053	l2211053	SAMPLE	176662-003	97537	Filtra	22-DEC-2004 16:17	5.0	1.0	2		2	1:MG=21640.0
054	l2211054	SAMPLE	176662-004	97537	Filtra	22-DEC-2004 16:23	5.0	1.0	2		2	1:MG=30700.0
055	l2211055	SAMPLE	176662-005	97537	Filtra	22-DEC-2004 16:29	5.0	1.0	2		2	1:NA=21960.0
056	l2211056	SAMPLE	176662-006	97537	Filtra	22-DEC-2004 16:35	5.0	1.0	2		2	1:NA=20240.0
057	l2211057	SAMPLE	176662-007	97537	Filtra	22-DEC-2004 16:41	5.0	1.0	2		2	1:NA=22680.0
058	l2211058	SAMPLE	176662-008	97537	Filtra	22-DEC-2004 16:47	5.0	1.0	3		2	2:NA=40440.0
059	l2211059	SAMPLE	176662-009	97537	Water	22-DEC-2004 16:53	5.0	1.0	1		2	
060	l2211060	SAMPLE	176662-009	97537	Filtra	22-DEC-2004 16:58	5.0	1.0	1		2	
061	l2211061	SAMPLE	176662-010	97537	Filtra	22-DEC-2004 17:04	5.0	1.0	3		2	2:NA=26320.0
063	l2211063	CCV				22-DEC-2004 17:16	1.0	1.0	1		12 2	
065	l2211065	CCB				22-DEC-2004 17:28	1.0	1.0			2	
066	l2211066	SER	QC276521	97537	Filtra	22-DEC-2004 17:34	5.0	1.0	2		2	2:MG=34300.0
067	l2211067	PDS	QC277377	97537	Filtra	22-DEC-2004 17:40	1.0	1.0	4	1	13 2	5:MG=175900
068	l2211068	SAMPLE	176662-002	97537	Filtra	22-DEC-2004 17:45	10.0	1.0	1		2	
069	l2211069	SAMPLE	176662-003	97537	Filtra	22-DEC-2004 17:51	10.0	1.0	1		2	
070	l2211070	SAMPLE	176662-004	97537	Filtra	22-DEC-2004 17:57	10.0	1.0	1		2	
071	l2211071	SAMPLE	176662-005	97537	Filtra	22-DEC-2004 18:03	10.0	1.0	1		2	
072	l2211072	SAMPLE	176662-006	97537	Filtra	22-DEC-2004 18:10	10.0	1.0	1		2	
073	l2211073	SAMPLE	176662-007	97537	Filtra	22-DEC-2004 18:16	10.0	1.0	1		2	
074	l2211074	SAMPLE	176662-008	97537	Filtra	22-DEC-2004 18:22	10.0	1.0	1		2	
075	l2211075	SAMPLE	176662-010	97537	Filtra	22-DEC-2004 18:28	10.0	1.0	1		2	
077	l2211077	CCV				22-DEC-2004 18:39	1.0	1.0	1		12 2	

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226

Flags used: spk=5% spike rule

Analyst: K Carly Date: 12/22/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54514758 Instrument: MET05 Agilent ICP-MS Begun: 22-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
078	l2211078	CCB				22-DEC-2004 18:45	1.0	1.0	3	2	
083	l2211083	ICSAB				22-DEC-2004 19:16	1.0	1.0		11 2	7:CA=290200
085	l2211085	CCV				22-DEC-2004 19:28	1.0	1.0	1	12 2	
088	l2211088	CCB				22-DEC-2004 19:46	1.0	1.0		2	

148

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226
Flags used: spk=5% spike rule

Analyst: K Carlyn Date: 12/22/04

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-DEC-2004
Sequence: 54513829 (12119)
Instrument ID: MET05

IB Filename: 12119003
Date Analyzed: 21-DEC-2004
Time Analyzed: 20:00

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
IB STD	634616	843570	145278	1318660	1180918	1823764
LOWER LIMIT	190385	253071	43583	395598	354275	547129
UPPER LIMIT	761540	1012284	174333	1582392	1417102	2188517

TYPE	SAMPLE	#						
IB	std-blk	003	634616	843570	145278	1318660	1180918	1823764
ICB		013	631128	820782	144259	1297842	1161079	1787639
ICSA		015	551886	806173	146946	1186014	996101	1709565
BLANK	QC276516	018	596842	808442	140968	1284004	1147808	1748049
BS	QC276517	020	572625	771083	137954	1187623	1074287	1664429
BSD	QC276518	021	569447	767630	138503	1184688	1066797	1662875
MSS	176662-001	023	576710	784030	138340	1142562	1020297	1645998
SER	QC276521	024	626628	846429	148756	1279084	1118795	1772446
MS	QC276519	025	570594	780317	141585	1129065	991072	1631388
MSD	QC276520	026	579104	793517	143815	1148156	1005607	1660957
CCV		028	608898	821314	147236	1262114	1130000	1756501
CCB		031	631145	825335	142197	1305611	1173554	1790663
MSS	176662-001	032	581614	782847	137926	1146505	1013939	1640403
MSS	176662-001	034	625922	840327	146122	1277206	1132373	1773501
SER	QC276521	035	647528	835923	146041	1299805	1166664	1780252
MS	QC276519	036	642112	822215	143809	1265903	1146604	1767753
MSD	QC276520	037	624380	815585	143301	1257490	1133831	1732156
SAMPLE	176662-002	039	568971	770055	135220	1116544	995518	1606342
SAMPLE	176662-003	040	576714	798143	139385	1176487	1056694	1691497
SAMPLE	176662-004	041	574428	791535	139302	1171464	1048716	1686913
SAMPLE	176662-005	042	615783	838242	146317	1221627	1019451	1703377
SAMPLE	176662-006	043	584079	804304	141023	1182817	1046036	1691489
CCV		045	594124	790462	141120	1211300	1111184	1706558
CCB		047	613540	789695	136505	1250741	1143561	1722846
MSS	176662-001	049	580370	783214	136874	1140679	1019782	1648197
SAMPLE	176662-007	050	589054	798037	138889	1170913	1042070	1688510
SAMPLE	176662-008	051	570394	803818	140247	1183350	1058924	1690426
SAMPLE	176662-009	052	563308	756912	134836	1136145	1048693	1613242

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 21-DEC-2004
Sequence: 54513829 (l2119)
Instrument ID: MET05

IB Filename: l2119003
Date Analyzed: 21-DEC-2004
Time Analyzed: 20:00

TYPE	SAMPLE	#						
SAMPLE	176662-009	053	577948	766923	135286	1152609	1061231	1643068
SAMPLE	176662-010	054	570339	766586	136189	1138063	1024438	1632222
CCV		060	580495	769347	137505	1183209	1098346	1656554
CCB		062	587056	753217	130842	1196724	1120373	1650004

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-DEC-2004
Sequence: 54514758 (12211)
Instrument ID: MET05

IB Filename: 12211003
Date Analyzed: 22-DEC-2004
Time Analyzed: 11:29

	IS1 (LI) READING	IS2 (SC) READING	IS3 (GE) READING	IS4 (IN) READING	IS5 (BI) READING	IS6 (TB) READING
IB STD	533978	549173	107898	920762	812644	1271294
LOWER LIMIT	160193	164752	32370	276229	243793	381388
UPPER LIMIT	640773	659008	129478	1104915	975173	1525553

TYPE	SAMPLE	#						
IB	std-blk	003	533978	549173	107898	920762	812644	1271294
ICB		014	540778	578997	107172	904541	835422	1256672
ICSA		015	471879	574253	113770	835442	721148	1206147
SAMPLE	176554-001	018	551107	662296*	110464	831997	786727	1212056
SAMPLE	176554-002	019	529727	616807	107484	834196	765913	1204420
SAMPLE	176554-001	020	537237	595214	110572	881671	830025	1250773
SAMPLE	176554-002	021	530613	547558	109332	887762	836521	1253399
BLANK	QC275956	022	528313	548323	107273	881235	815243	1232076
BS	QC275957	023	527906	508668	101955	821794	776457	1176206
BSD	QC275958	024	525580	532316	102840	822035	781193	1186931
CCV		027	521370	531574	107172	836222	791095	1202156
CCB		029	544205	561607	104886	870748	821721	1238767
MSS	176567-004	030	517505	509453	102363	812283	763056	1182720
SER	QC275961	031	535938	543704	105896	870155	814170	1229379
MS	QC275959	033	514886	567216	105840	842060	784696	1221761
MSD	QC275960	034	513760	548630	106431	851075	801687	1233851
BS	QC275957	035	533236	515307	102409	817727	776372	1197220
BSD	QC275958	036	526959	525781	101731	813606	765909	1171887
MSS	176567-004	038	491225	486247	106946	750851	689195	1110267
SAMPLE	176567-005	039	504166	495157	107015	749922	700456	1124861
SAMPLE	176567-006	040	499933	502183	108082	757643	694972	1127011
SAMPLE	176567-014	041	484942	500863	107777	758853	693746	1131422
CCV		043	543775	560058	112287	885689	840663	1291287
CCB		045	551253	609307	108891	924108	865151	1290404
PDS	QC277415	046	475770	490662	103438	725098	673484	1093611
CCV		049	516312	536937	109896	850738	812231	1225138

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 22-DEC-2004
Sequence: 54514758 (l2211)
Instrument ID: MET05

IB Filename: l2211003
Date Analyzed: 22-DEC-2004
Time Analyzed: 11:29

TYPE	SAMPLE	#						
CCB		051	531506	590745	105546	893155	844486	1263391
SAMPLE	176662-002	052	526239	543915	104859	837031	801461	1233601
SAMPLE	176662-003	053	519882	545381	106177	847619	815536	1242117
SAMPLE	176662-004	054	517927	521817	105529	842956	801508	1227695
SAMPLE	176662-005	055	531618	601720	107422	870957	814060	1255235
SAMPLE	176662-006	056	522857	572456	106800	854769	812695	1244528
SAMPLE	176662-007	057	522908	596959	107295	865488	814941	1247294
SAMPLE	176662-008	058	518512	553768	107565	856605	790219	1227889
SAMPLE	176662-009	059	517958	569552	106280	858735	807994	1221981
SAMPLE	176662-009	060	523309	579369	107362	867730	820243	1237570
SAMPLE	176662-010	061	518767	558962	106999	863189	810936	1247492
CCV		063	515187	546539	108464	869833	820358	1242135
CCB		065	532334	601142	107037	903930	845801	1270630
SER	QC276521	066	526144	551962	105371	841509	798996	1235013
PDS	QC277377	067	492304	522731	103789	771334	711784	1152815
SAMPLE	176662-002	068	533293	572867	111531	897727	834068	1279984
SAMPLE	176662-003	069	541725	593318	110137	889999	837988	1279027
SAMPLE	176662-004	070	534868	587203	108565	881812	837128	1270811
SAMPLE	176662-005	071	542147	592914	108810	895173	830042	1272374
SAMPLE	176662-006	072	531404	559854	107736	890477	825274	1252865
SAMPLE	176662-007	073	539706	594172	108908	892996	828931	1264136
SAMPLE	176662-008	074	530731	586716	109245	896251	835985	1262830
SAMPLE	176662-010	075	538382	587534	108151	887336	826733	1263107
CCV		077	515741	598397	110314	868641	815493	1235379
CCB		078	545890	562703	108285	906681	843584	1274882
CCV		085	517183	539092	107713	855539	797306	1201522
CCB		088	536435	570058	104245	879595	828351	1231942

* = Outside QC Limits

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	KK	SE	AG	NA	TL	VV	ZN
176662-001	MET05	12/21/04 21:52	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+		+		+	+	+
176662-001	MET05	12/21/04 22:44	1.0																		+					
176662-001	MET05	12/21/04 22:56	10.0							+						+							+			
176662-001	MET05	12/22/04 00:24	1.0																							
176662-001	MET04	12/22/04 15:34	1.0															+								
176662-002	MET05	12/21/04 23:25	1.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-002	MET04	12/22/04 15:41	1.0															+								
176662-002	MET05	12/22/04 16:11	5.0				+			+													+			
176662-002	MET05	12/22/04 17:45	10.0													+										
176662-003	MET05	12/21/04 23:31	1.0	+	+	+		+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-003	MET04	12/22/04 15:43	1.0															+								
176662-003	MET05	12/22/04 16:17	5.0				+			+													+			
176662-003	MET05	12/22/04 17:51	10.0													+										
176662-004	MET05	12/21/04 23:37	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-004	MET04	12/22/04 15:45	1.0															+								
176662-004	MET05	12/22/04 16:23	5.0							+													+			
176662-004	MET05	12/22/04 17:57	10.0													+										
176662-005	MET05	12/21/04 23:43	1.0	+	+	+	+	+	+	+	+	+	+	+	+		+		+	+	+	+		+	+	+
176662-005	MET04	12/22/04 15:47	1.0															+								
176662-005	MET05	12/22/04 16:29	5.0													+										
176662-005	MET05	12/22/04 18:03	10.0																				+			
176662-006	MET05	12/21/04 23:49	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-006	MET04	12/22/04 15:54	1.0															+								
176662-006	MET05	12/22/04 16:35	5.0							+						+										
176662-006	MET05	12/22/04 18:10	10.0																				+			
176662-007	MET05	12/22/04 00:30	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-007	MET04	12/22/04 15:56	1.0															+								
176662-007	MET05	12/22/04 16:41	5.0							+						+										
176662-007	MET05	12/22/04 18:16	10.0																				+			
176662-008	MET05	12/22/04 00:36	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-008	MET04	12/22/04 15:58	1.0															+								
176662-008	MET05	12/22/04 16:47	5.0							+																
176662-008	MET05	12/22/04 18:22	10.0													+							+			
176662-009	MET05	12/22/04 00:47	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-009	MET04	12/22/04 16:00	1.0															+								
176662-009	MET05	12/22/04 16:58	5.0							+						+							+			
176662-010	MET05	12/22/04 00:53	1.0	+	+	+	+	+	+		+	+	+	+	+		+		+	+	+	+		+	+	+
176662-010	MET05	12/22/04 17:04	5.0							+																
176662-010	MET05	12/22/04 18:28	10.0													+							+			

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALS	BAS	BAE	CDA	CAR	COU	CUE	FEB	PBG	MGN	HGI	NIK	SEG	AGA	NAL	TL	VN	ZN
QC276516	MET05	12/21/04 21:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC276517	MET05	12/21/04 21:34	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC276518	MET05	12/21/04 21:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC276519	MET05	12/21/04 22:04	1.0	+	+	+	+	+	+		+	+	+	+	+			+	+	+	+	+
QC276519	MET05	12/21/04 23:08	20.0							+						+	+				+				
QC276520	MET05	12/21/04 22:09	1.0	+	+	+	+	+	+		+	+	+	+	+			+	+	+	+	+	+	+
QC276520	MET05	12/21/04 23:14	20.0							+						+	+		+				+			
QC276521	MET05	12/21/04 21:58	5.0	+	+	+	+	+	+		+	+	+	+	+			+	+	+	+	+	+	+
QC276521	MET05	12/21/04 23:02	50.0							+						+							+			
QC276521	MET05	12/22/04 17:34	5.0														+									
QC277377	MET05	12/22/04 17:40	1.0	+	+	+	+	+	+		+	+	+	+	+				+		+		+		+
QC277377	MET05	12/22/04 20:24	10.0							+							+		+							
QC277279	MET04	12/22/04 15:27	1.0															+								
QC277280	MET04	12/22/04 15:29	1.0															+								
QC277281	MET04	12/22/04 15:31	1.0															+								
QC277282	MET04	12/22/04 15:36	1.0															+								
QC277283	MET04	12/22/04 15:39	1.0															+								

Curtis & Tompkins Laboratories **Sample Preparation Summary** **22-DEC-2004 12:01**

Batch Number : 97537
Date Extracted: 16-DEC-2004
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 04SS226
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176662-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-003			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-004			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-005			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-006			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-007			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-008			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-009			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176662-009			Treadwell & Rollo	Water	50	ml	50	1.000000	1					TAL/ICP		
176662-010			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176664-001			LFR Levine Fricke	Water	50	ml	50	1.000000	1					ICAP		
QC276516	BLANK			Filtrate	50	ml	50	1.000000	1					ICAP		
QC276517	BS			Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276518	BSD			Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276519	MS	of 176662-001		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276520	MSD	of 176662-001		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276521	SER	of 176662-001		Filtrate	50	ml	50	1.000000	1					ICAP		
QC277077	PDS	of 176662-001		Filtrate	50	ml	50	1.000000	1					ICAP		

Prep Chemist: KC for K Gaines Reviewed By: K Carlyn Date: 12/22/04

Relinquished By: KC for K Gaines Received By: K Carlyn Date: 12/22/04

td.

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 97537
Date Digested: 12/15/04
Digested by: KLA

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2036
Page 27

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS-01D				FIELD FILTERED
MSD-01				
1766062-01				
-02				
-03				
-04				
-05				
-06				
-07				
-08				
-09				
-10				
1662-09 E				TOTAL
1664-01 D				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95°C	KLA 12/16
.5 mL of spike solution was added to all spikes	0455224	
concentrated HCl	A270445 BAKER	
concentrated HNO3	A330446 BAKER	
☐ filtered thru' Whatman # 541	N/A	

Kenneth [illegible] 12/16/04
Extraction Chemist / Date

Continued from page _____
Continued on page 1

12/16/04
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8

Analyte	Units	MET05	
Aluminum	ug/L	03/29/04	0.57
Antimony	ug/L	03/29/04	0.066
Arsenic	ug/L	03/29/04	0.79
Barium	ug/L	03/29/04	0.17
Beryllium	ug/L	03/29/04	0.14
Cadmium	ug/L	03/29/04	0.20
Calcium	ug/L	03/29/04	17
Chromium	ug/L	03/29/04	0.044
Cobalt	ug/L	03/29/04	0.069
Copper	ug/L	06/21/04	0.28
Iron	ug/L	03/29/04	7.0
Lead	ug/L	03/29/04	0.048
Magnesium	ug/L	03/29/04	6.6
Manganese	ug/L	03/29/04	0.060
Molybdenum	ug/L	03/29/04	0.19
Nickel	ug/L	03/29/04	0.13
Potassium	ug/L	03/29/04	9.9
Selenium	ug/L	03/29/04	0.58
Silver	ug/L	03/29/04	0.16
Sodium	ug/L	03/29/04	18
Thallium	ug/L	03/29/04	0.17
Thorium	ug/L	04/14/03	0.15
Uranium	ug/L	04/14/03	0.041
Vanadium	ug/L	03/29/04	0.42
Zinc	ug/L	03/31/04	0.16

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Field ID:	BB3GW100	Batch#:	97684
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL
Alkalinity, Bicarbonate	330	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	330	1.0

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

138.0

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277163	Batch#:	97684
Matrix:	Water	Analyzed:	12/20/04
Units:	mg/L		

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC277164	Batch#:	97684
Matrix:	Water	Analyzed:	12/20/04

Spiked	Result	%REC	Limits
200.0	216.2	108	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	DAEGW104	Batch#:	97684
MSS Lab ID:	176705-001	Sampled:	12/15/04
Matrix:	Water	Received:	12/16/04
Units:	mg/L	Analyzed:	12/20/04

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC277165	289.8	200.0	489.9	100	69-112		
MSD	QC277166		200.0	510.6	110	69-112	4	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **12/20/04**

Method: **EPA 310.1 /** SMWW 2320B Batch No: **97684**

SOP#: Alkalinity_rv 6.doc

H_2SO_4 Normality = **0.023**

conc.(mg/L) Na_2CO_3 for QC = **200**

Analyst: RS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
176662-001	6.90	25	0.00	13.80	634.80		n/a	1.0
176662-002	7.45	25	0.00	15.70	722.20		n/a	1.0
176662-003	7.10	25	0.00	8.00	368.00		n/a	1.0
176662-004	7.53	25	0.00	11.80	542.80		n/a	1.0
176662-005	9.28	25	1.00	7.00	322.00		n/a	1.0
176662-006	7.85	25	0.00	7.80	358.80		n/a	1.0
176662-007	7.68	25	0.00	7.90	363.40		n/a	1.0
176662-008	6.90	25	0.00	11.00	506.00		n/a	1.0
176662-009	7.29	25	0.00	4.80	220.80		n/a	1.0
176662-010	6.79	25	0.00	7.10	326.60		n/a	1.0
176705-001	7.25	25	0.00	6.30	289.80		n/a	1.0
176705-002	7.23	25	0.00	17.90	823.40		n/a	1.0
176705-003	6.89	25	0.00	5.50	253.00		n/a	1.0
176705-004	7.06	25	0.00	5.30	243.80		n/a	1.0
176705-006	6.83	25	0.00	7.40	340.40		n/a	1.0
176705-007	6.85	25	0.00	7.40	340.40		n/a	1.0
176705-008	7.97	25	0.00	5.60	257.60		n/a	1.0
176705-014	7.38	25	0.00	8.50	391.00		n/a	1.0
176705-015	7.38	25	0.00	8.40	386.40		n/a	1.0
176705-016	7.24	25	0.00	9.70	446.20		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.1	25	0.00	0.00	ND			1.0		
LCS	10.21	25	2.40	4.70	216.20			1.0	108	
176705-001	7.25	25	0.00	6.30	289.80			1.0		
MS	9.16	25	1.30	10.65	489.90			1.0	100	
MSD	9.17	25	1.30	11.10	510.60			1.0	110	4

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: _____

Curtis Tompkins, Ltd.

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Analysis: **Alkalinity**
Method: **EPA 310.1**

Analysis Date: 12/20/04
Batch No: 97684

H_2SO_4 Normality = 0.023
Analyst: RS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity as $CaCO_3$ (mg/L)	Hydroxide Alkalinity
176662-001	0.0	634.8	634.8	634.800	0.000	0.000
176662-002	0.0	722.2	722.2	722.200	0.000	0.000
176662-003	0.0	368.0	368	368.000	0.000	0.000
176662-004	0.0	542.8	542.8	542.800	0.000	0.000
176662-005	46.0	276.0	322	230.000	92.000	0.000
176662-006	0.0	358.8	358.8	358.800	0.000	0.000
176662-007	0.0	363.4	363.4	363.400	0.000	0.000
176662-008	0.0	506.0	506	506.000	0.000	0.000
176662-009	0.0	220.8	220.8	220.800	0.000	0.000
176662-010	0.0	326.6	326.6	326.600	0.000	0.000
176705-001	0.0	289.8	289.8	289.800	0.000	0.000
176705-002	0.0	823.4	823.4	823.400	0.000	0.000
176705-003	0.0	253.0	253	253.000	0.000	0.000
176705-004	0.0	243.8	243.8	243.800	0.000	0.000
176705-006	0.0	340.4	340.4	340.400	0.000	0.000
176705-007	0.0	340.4	340.4	340.400	0.000	0.000
176705-008	0.0	257.6	257.6	257.600	0.000	0.000
176705-014	0.0	391.0	391	391.000	0.000	0.000
176705-015	0.0	386.4	386.4	386.400	0.000	0.000
176705-016	0.0	446.2	446.2	446.200	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity**
Method: **EPA 310.1**

Analysis Date: 12/20/04
Batch No: 97684

H_2SO_4 Normality = 0.023
Analyst: RS

SAMPLE	**Total Alkalinty** as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity **as HCO_3^- (mg/L)**	Carbonate Alkalinity **as CO_3^{2-} (mg/L)**	Hydroxide Alkalinity **as OH^- (mg/L)**
176662-001	634.8	773.98	0.000	0.00
176662-002	722.2	880.54	0.000	0.00
176662-003	368	448.68	0.000	0.00
176662-004	542.8	661.81	0.000	0.00
176662-005	322	280.43	55.170	0.00
176662-006	358.8	437.47	0.000	0.00
176662-007	363.4	443.07	0.000	0.00
176662-008	506	616.94	0.000	0.00
176662-009	220.8	269.21	0.000	0.00
176662-010	326.6	398.21	0.000	0.00
176705-001	289.8	353.34	0.000	0.00
176705-002	823.4	1003.93	0.000	0.00
176705-003	253	308.47	0.000	0.00
176705-004	243.8	297.25	0.000	0.00
176705-006	340.4	415.03	0.000	0.00
176705-007	340.4	415.03	0.000	0.00
176705-008	257.6	314.08	0.000	0.00
176705-014	391	476.73	0.000	0.00
176705-015	386.4	471.12	0.000	0.00
176705-016	446.2	544.03	0.000	0.00

LIMS Batch #: 97684 Date: 12-20-04 Benchbook#: BK 1927
Matrix: H2O Time: 13:35 Page: 79

CAL-ph 4.0: SS#: 045598
CAL-ph 7.0: SS#: 045S344
CAL-ph 10.0: SS#: 045S382
Slope: 97.2
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: 04W30872
H_2SO_4 Normality: RS 12-20-04 ~~0.025~~ 0.023
H_2SO_4 Reagent ID: 6-17-05

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.10	—	20.05		
	LCS	25	10.21	2.40	~~4~~ 4.70		
	176662-001C	25	6.90	—	13.80		
	-002	25	7.45	—	15.70		
5	-003	25	7.10	—	8.00		
	-004	25	7.53	—	11.80		
	-005	25	9.28	RS 12-20-04 1.00	7.00		
	-006	25	7.85	—	7.80		
	-007	25	7.68	—	7.90		
10	-008	25	6.90	—	11.00		
	-009	25	7.29	—	4.80		
	-010	25	6.79	—	7.10		
	176705-001G	25	7.25	—	6.30		
	MS -001	25	9.16	1.30	10.65		
15	MSD -001	25	9.17	1.30	11.10		
	-002I	25	7.23	—	17.90		
	-003	25	6.89	—	5.50		
	-004	25	7.06	—	5.30		
	-006E	25	6.83	—	7.40		
20	-007	25	6.85	—	7.40		
	-008	25	7.97	—	5.60		
	-014M	25	7.38	—	8.50		
	-015L	25	7.38	—	8.40		
	-016	25	7.24	—	9.70		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

RShiffa 12-20-04
Analyst / Date

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97684
Date Started: 20-DEC-2004
Batched by : Radia Shiffa

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
176662-001			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-002			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-003			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-004			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-005			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-006			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-007			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-008			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-009			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176662-010			Treadwell & Rollo	Water	ALKALINITY	28-DEC-2004
176705-001			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-002			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-003			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-004			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-006			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-007			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-008			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-014			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-015			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
176705-016			Treadwell & Rollo	Water	ALKALINITY	29-DEC-2004
QC277163	MB			Water	ALKALINITY	
QC277164	LCS			Water	ALKALINITY	
QC277165	MS	of 176705-001		Water	ALKALINITY	
QC277166	MSD	of 176705-001		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Diln Fac:	25.00
Field ID:	BB3GW100	Batch#:	97518
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
260	5.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chloride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC		Limits	RPD	Lim	Diln Fac
BS	QC276429		4.000	4.350	109		80-120			1.000
BSD	QC276430		4.000	3.955	99		80-120	10	20	1.000
MS	QC276431	202.9	50.00	253.9	102	NM	80-120			25.00
MSD	QC276432		50.00	253.1	100	NM	80-120	0	25	25.00

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Diln Fac:	1.000
Field ID:	BB3GW100	Batch#:	97518
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Fluoride

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Fluoride	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		2.000	2.116	106	80-120			1.000
BSD	QC276430		2.000	1.916	96	80-120	10	20	1.000
MS	QC276431	0.06891	25.00	23.30	93	80-120			25.00
MSD	QC276432		25.00	21.68	86	80-120	7	20	25.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Diln Fac:	25.00
Field ID:	BB3GW100	Batch#:	97518
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
7.3	1.3

RL= Reporting Limit

108.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrate Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrate	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		1.000	1.088	109	80-120			1.000
BSD	QC276430		1.000	1.016	102	80-120	7	20	1.000
MS	QC276431	5.105	12.50	17.82	102	80-120			25.00
MSD	QC276432		12.50	17.33	98	80-120	3	25	25.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Diln Fac:	1.000
Field ID:	BB3GW100	Batch#:	97518
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.05

ND= Not Detected
RL= Reporting Limit

119.0

Curtis & Tompkins, Ltd.

Batch QC Report

Nitrite Nitrogen

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Nitrogen, Nitrite	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		1.000	1.074	107	80-120			1.000
BSD	QC276430		1.000	1.006	101	80-120	7	20	1.000
MS	QC276431	<0.01100	12.50	12.85	103	80-120			25.00
MSD	QC276432		12.50	12.48	100	80-120	3	25	25.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Diln Fac:	25.00
Field ID:	BB3GW100	Batch#:	97518
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/16/04

Result	RL
56	13

RL= Reporting Limit

128.0

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276428	Batch#:	97518
Matrix:	Water	Analyzed:	12/15/04

Result	RL
ND	0.50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Sulfate

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	97518
Field ID:	LF5GW103	Sampled:	12/14/04
MSS Lab ID:	176662-006	Received:	12/15/04
Matrix:	Water	Analyzed:	12/15/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276429		10.00	10.48	105	80-120			1.000
BSD	QC276430		10.00	9.642	96	80-120	8	20	1.000
MS	QC276431	27.54	125.0	152.5	100	80-120			25.00
MSD	QC276432		125.0	149.0	97	80-120	2	25	25.00

RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph Reviewed By: CW
Calnum: 624241562001 Name: Type: (normal) Date: 15-JUN-2004 18:20 Inj Vol (uL): 25

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	167_2	624241562002	L1	15-JUN-2004 18:20	04SS201 (500X)
2	167_3	624241562003	L2	15-JUN-2004 18:38	04SS201 (100X)
3	167_4	624241562004	L3	15-JUN-2004 18:57	04SS201 (25X)
4	167_5	624241562005	L4	15-JUN-2004 19:15	04SS201 (10X)
5	167_6	624241562006	L5	15-JUN-2004 19:34	04SS201 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	Flags
Fluoride	0.2178	0.2529	0.2568	0.2521	0.2625	QORG	A		0.245946	0.001632	mg/L	0.2484	1.000	0.990	
Chloride	0.1952	0.1581	0.1690	0.1664	0.1809	QORG	A		0.156183	0.001226	mg/L	0.1739	1.000	0.990	
Nitrogen, Nitrite	0.3100	0.3284	0.3455	0.3324	0.3524	QORG	A		0.322015	0.005996	mg/L	0.3338	1.000	0.990	
Nitrogen, Nitrate	0.3491	0.3779	0.4021	0.3882	0.4079	QORG	A		0.378144	0.005859	mg/L	0.3850	1.000	0.990	
Sulfate	0.1187	0.1197	0.1258	0.1233	0.1326	QORG	A		0.117099	3.063E-4	mg/L	0.1240	1.000	0.990	

Curves: QORG: Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Calname :
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :

ICV 624241562008 (167_8) standards: 03WS1209 (5X)

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Fluoride	P	624241562008	15-JUN-2004	1.0000	0.9258	mg/L	-7	10
Chloride	P	624241562008	15-JUN-2004	2.0000	1.9766	mg/L	-1	10
Nitrogen, Nitrite	P	624241562008	15-JUN-2004	0.5000	0.4870	mg/L	-3	10
Nitrogen, Nitrate	P	624241562008	15-JUN-2004	0.5000	0.4905	mg/L	-2	10
Sulfate	P	624241562008	15-JUN-2004	5.0000	4.8891	mg/L	-2	10

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph Reviewed By:
Calnum: 624241562001 Name: Type: (normal) Date: 15-JUN-2004 18:20 Inj Vol (uL): 25

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	167_2	624241562002	L1	15-JUN-2004 18:20	04SS201 (500X)
2	167_3	624241562003	L2	15-JUN-2004 18:38	04SS201 (100X)
3	167_4	624241562004	L3	15-JUN-2004 18:57	04SS201 (25X)
4	167_5	624241562005	L4	15-JUN-2004 19:15	04SS201 (10X)
5	167_6	624241562006	L5	15-JUN-2004 19:34	04SS201 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2178	0.2529	0.2568	0.2521	0.2625	QORG	A		0.245946	0.001632	mg/L	0.2484	1.000	0.990	
Chloride	0.1952	0.1581	0.1690	0.1664	0.1809	QORG	A		0.156183	0.001226	mg/L	0.1739	1.000	0.990	
Nitrogen, Nitrite	0.3100	0.3284	0.3455	0.3324	0.3524	QORG	A		0.322015	0.005996	mg/L	0.3338	1.000	0.990	
Bromide	0.0628	0.0674	0.0721	0.0687	0.0712	QORG	A		0.068074	1.526E-4	mg/L	0.0685	1.000	0.990	
Nitrogen, Nitrate	0.3491	0.3779	0.4021	0.3882	0.4079	QORG	A		0.378144	0.005859	mg/L	0.3850	1.000	0.990	
Orthophosphate (as P)	0.3551	0.2137	0.1697	0.1543	0.1582	QUAD	A	0.061800	0.145034	4.969E-4	mg/L	0.2102	1.000	0.990	
Sulfate	0.1187	0.1197	0.1258	0.1233	0.1326	QORG	A		0.117099	3.063E-4	mg/L	0.1240	1.000	0.990	

185

MRS 6/16/04

No Valid Second source verification for PO4P.

CW 6/16/04

Curves: QORG: Quadratic regression forced through origin QUAD: Quadratic regression
Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

Sequence: 167
Operator: ic_analyst
Printed: 6/16/2004 4:10:28 PM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004
Timebase: IC3_DX120
#Samples: 9
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 6/16/2004 10:57:25 AM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-167	IB		1.0000	IC03-7AN	Finished	6/15/2004 6:02:06 PM
2	CAL-167	ICAL, L1,04SS201,500		1.0000	IC03-7AN	Finished	6/15/2004 6:20:31 PM
3	CAL-167	ICAL, L2,04SS201,100		1.0000	IC03-7AN	Finished	6/15/2004 6:38:55 PM
4	CAL-167	ICAL, L3,04SS201,25		1.0000	IC03-7AN	Finished	6/15/2004 6:57:19 PM
5	CAL-167	ICAL, L4,04SS201,10		1.0000	IC03-7AN	Finished	6/15/2004 7:15:44 PM
6	CAL-167	ICAL, L5,04SS201,5		1.0000	IC03-7AN	Finished	6/15/2004 7:34:08 PM
7	CAL-167	ICB		1.0000	IC03-7AN	Finished	6/15/2004 7:52:33 PM
8	CAL-167	ICV,03WS1209,5		1.0000	IC03-7AN	Finished	6/15/2004 8:10:58 PM
9	CAL-167	SHUTDOWN		1.0000	IC03-7AN_OFF	Finished	6/15/2004 8:29:22 PM

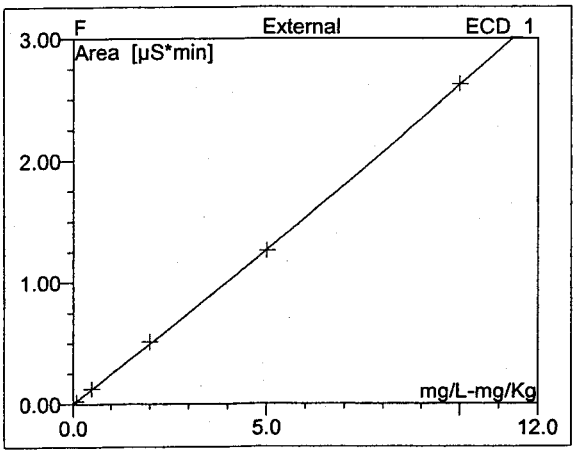
Sequence: 167
Operator: ic_analyst
Printed: 6/16/2004 4:10:28 PM

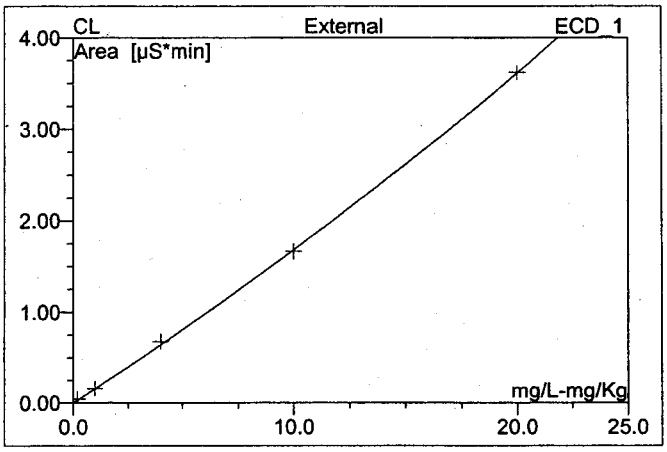
Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004
Timebase: IC3_DX120
#Samples: 9
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 6/16/2004 10:57:25 AM by ic_analyst

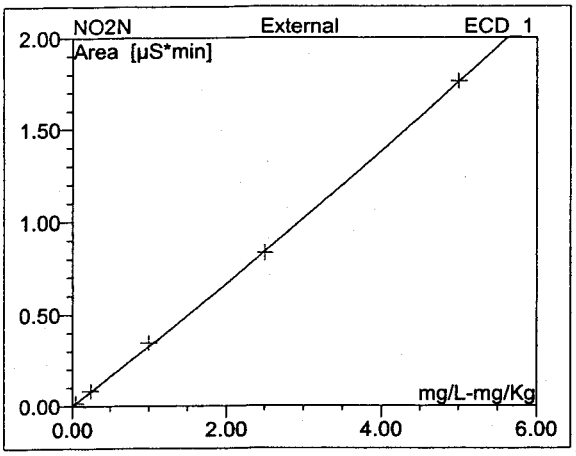
No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-167	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-167	ICAL, L1,04SS201,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-167	ICAL, L2,04SS201,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-167	ICAL, L3,04SS201,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-167	ICAL, L4,04SS201,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-167	ICAL, L5,04SS201,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-167	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-167	ICV,03WS1209,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
9	CAL-167	SHUTDOWN		IC03-7AN_CAL	Unknown	25.0	MRS	1

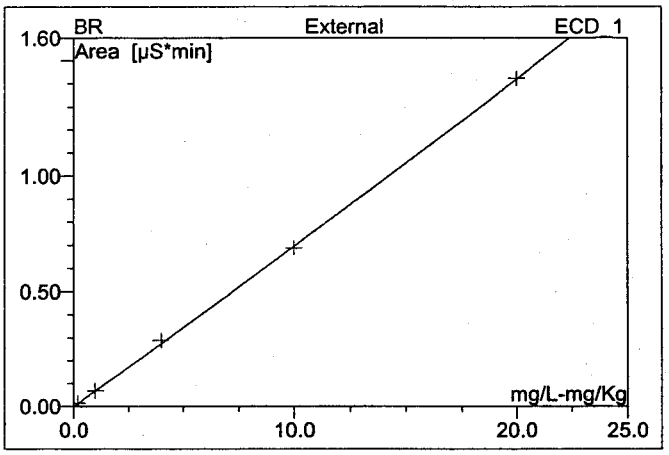
IC03 Calibration Batch Report

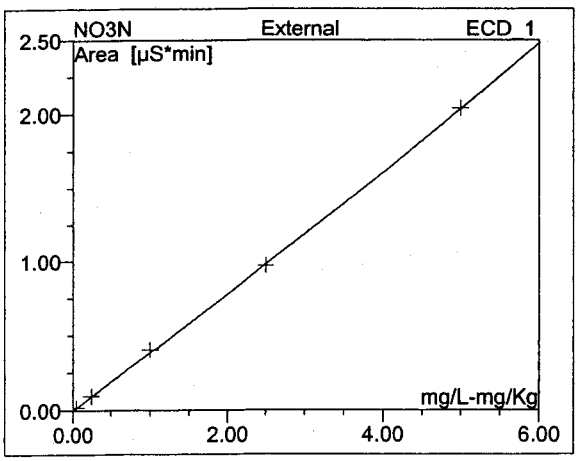
Sequence:	167	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	06/15/04 19:34	Run Time:	16.00

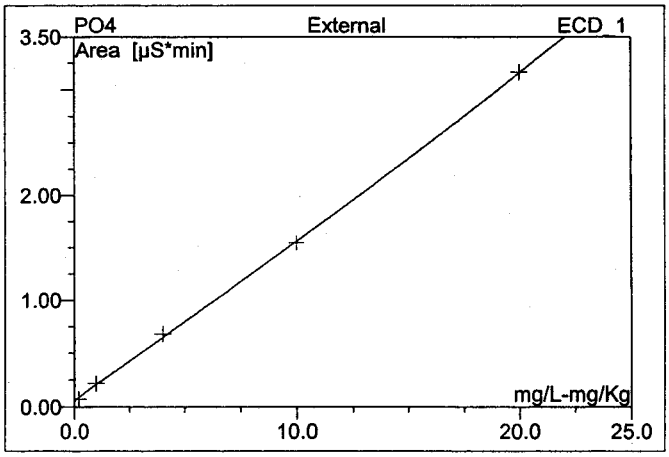




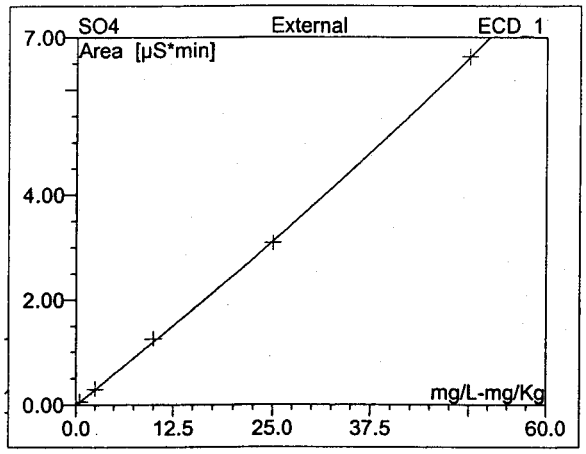








Sequence:	**167**	*Inj. Vol.:*	**25.0**
Program:	**IC03-7AN**	*Operator:*	**n.a.**
Inj. Date/Time:	**06/15/04 19:34**	*Run Time:*	**16.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.203	F	Quad	5	0.000000	0.245946	0.001632	99.980437
2	4.647	CL	Quad	5	0.000000	0.156183	0.001226	99.915771
3	5.480	NO2N	Quad	5	0.000000	0.322015	0.005996	99.958636
4	6.863	BR	Quad	5	0.000000	0.068074	0.000153	99.982005
5	7.680	NO3N	Quad	5	0.000000	0.378145	0.005859	99.970552
6	10.160	PO4	QOff	5	0.061801	0.145034	0.000497	99.973194
7	12.020	SO4	Quad	5	0.000000	0.117099	0.000306	99.938442
AVERAGE:					0.008829	0.204642	0.002238	99.959862

CW 6/16/04

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,04S	0.021782	0.039043	0.015501	0.012561	0.017454	0.071017	0.059341
3	ICAL, L2,04S	0.126458	0.158130	0.082093	0.067440	0.094469	0.213676	0.299229
4	ICAL, L3,04S	0.513649	0.676143	0.345537	0.288464	0.402072	0.678628	1.257777
5	ICAL, L4,04S	1.260321	1.663692	0.831086	0.687400	0.970557	1.543020	3.082077
6	ICAL, L5,04S	2.624636	3.618171	1.762116	1.424107	2.039335	3.164794	6.627644

CW 6/16/04

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,04S	0.187332	0.277080	0.093562	0.069046	0.078558	0.175438	0.181882
3	ICAL, L2,04S	0.991074	1.150408	0.468482	0.317884	0.379332	0.589224	0.916406
4	ICAL, L3,04S	4.231662	4.967876	1.971580	1.371522	1.643090	2.034386	3.867970
5	ICAL, L4,04S	10.603688	12.593416	4.782438	3.304684	3.999650	4.809042	9.615142
6	ICAL, L5,04S	22.464870	27.607642	9.942792	6.897288	8.457848	10.178594	20.875042

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,04S	0.088511	0.249491	0.048095	0.184442	0.046125	0.063534	0.506089
3	ICAL, L2,04S	0.512429	1.004539	0.253737	0.988497	0.248864	1.043439	2.538491
4	ICAL, L3,04S	2.060289	4.191218	1.052425	4.198025	1.046314	4.192752	10.455201
5	ICAL, L4,04S	4.961030	9.884881	2.467528	9.879133	2.471952	9.878546	24.721636
6	ICAL, L5,04S	10.006956	20.019111	5.005633	20.021590	5.004887	20.021466	50.047049

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.200	Minimum Area	0.001 "[Signal]*min"	ECD_1
3	2.250	Peak Slice	0.05 s	ECD_1
4	2.900	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,04SS201,500
1	F	3.200 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.613 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.433 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.823 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.643 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	PO4	9.953 min	10.000 RG	External	Area	QOff	Auto		0.200000
7	SO4	11.693 min	10.000 RG	External	Area	Quad	Auto		0.500000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,04SS201,100	Amount ICAL, L3,04SS201,25	Amount ICAL, L4,04SS201,10	Amount ICAL, L5,04SS201,5
1	F	3.200 min	0.500000	2.000000	5.000000	10.000000
2	CL	4.613 min	1.000000	4.000000	10.000000	20.000000
3	NO2N	5.433 min	0.250000	1.000000	2.500000	5.000000
4	BR	6.823 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.643 min	0.250000	1.000000	2.500000	5.000000
6	PO4	9.953 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.693 min	2.500000	10.000000	25.000000	50.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Comment
1	F	3.200 min	
2	CL	4.613 min	
3	NO2N	5.433 min	
4	BR	6.823 min	
5	NO3N	7.643 min	
6	PO4	9.953 min	
7	SO4	11.693 min	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,04SS201,500	Amount ICAL, L2,04SS201,100	Amount ICAL, L3,04SS201,25
1	F	3.200 min	1.000000	0.100000	0.500000	2.000000
2	CL	4.613 min	1.000000	0.200000	1.000000	4.000000
3	NO2N	5.433 min	1.000000	0.050000	0.250000	1.000000
4	BR	6.823 min	1.000000	0.200000	1.000000	4.000000
5	NO3N	7.643 min	1.000000	0.050000	0.250000	1.000000
6	PO4	9.953 min	1.000000	0.200000	1.000000	4.000000
7	SO4	11.693 min	1.000000	0.500000	2.500000	10.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L4,04SS201,10	Amount ICAL, L5,04SS201,5	Comment
1	F	3.200 min	5.000000	10.000000	
2	CL	4.613 min	10.000000	20.000000	
3	NO2N	5.433 min	2.500000	5.000000	
4	BR	6.823 min	10.000000	20.000000	
5	NO3N	7.643 min	2.500000	5.000000	
6	PO4	9.953 min	10.000000	20.000000	
7	SO4	11.693 min	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,04SS201,500	2	179	25.0	1.0000	1.0000	1.0000	6/15/2004 6:20:31 PM
2	☒	ICAL, L2,04SS201,100	3	179	25.0	1.0000	1.0000	1.0000	6/15/2004 6:38:55 PM
3	☒	ICAL, L3,04SS201,25	4	180	25.0	1.0000	1.0000	1.0000	6/15/2004 6:57:19 PM
4	☒	ICAL, L4,04SS201,10	5	181	25.0	1.0000	1.0000	1.0000	6/15/2004 7:15:44 PM
5	☒	ICAL, L5,04SS201,5	6	182	25.0	1.0000	1.0000	1.0000	6/15/2004 7:34:08 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\342.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/8/2004 10:40:11 AM by ic_analyst

Calibration:

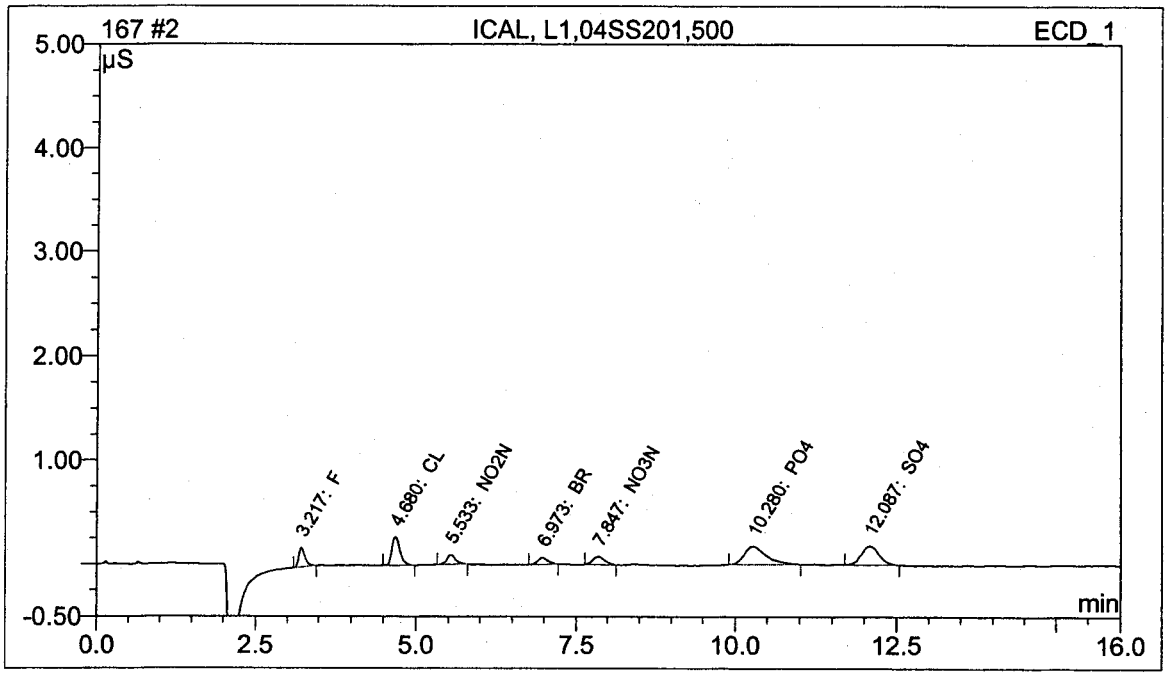
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,04SS201,500	Ok
2	☒	ICAL, L2,04SS201,100	Ok
3	☒	ICAL, L3,04SS201,25	Ok
4	☒	ICAL, L4,04SS201,10	Ok
5	☒	ICAL, L5,04SS201,5	Ok

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,04SS201,500	**Sample No.:**	2
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.217	0.021782	0.0885	0.0885	
2	CL	4.680	0.039043	0.2495	0.2495	
3	NO2N	5.533	0.015501	0.0481	0.0481	
4	BR	6.973	0.012561	0.1844	0.1844	
5	NO3N	7.847	0.017454	0.0461	0.0461	
6	PO4	10.280	0.071017	0.0635	0.0635	
7	SO4	12.087	0.059341	0.5061	0.5061	



ANALYZED BY: MRS 6/16/04

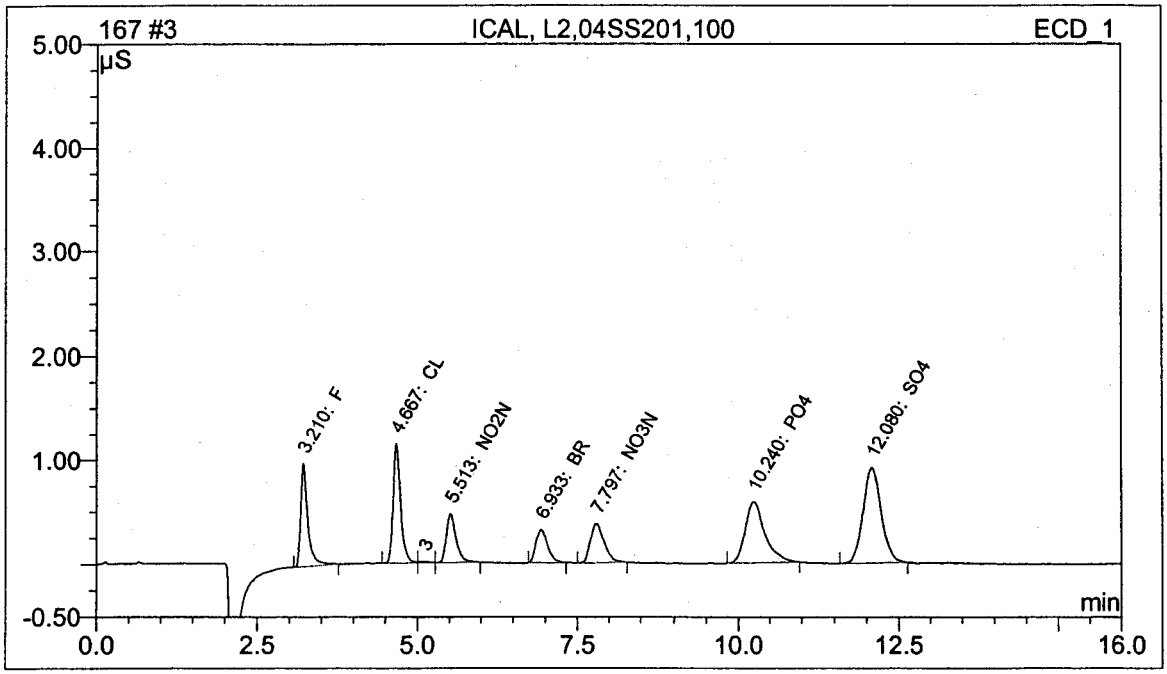
REVIEWED BY: aw 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,04SS201,100	**Sample No.:**	3
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.210	0.126458	0.5124	0.5124	
2	CL	4.667	0.158130	1.0045	1.0045	
4	NO2N	5.513	0.082093	0.2537	0.2537	
5	BR	6.933	0.067440	0.9885	0.9885	
6	NO3N	7.797	0.094469	0.2489	0.2489	
7	PO4	10.240	0.213676	1.0434	1.0434	
8	SO4	12.080	0.299229	2.5385	2.5385	



ANALYZED BY: MRS 6/16/04

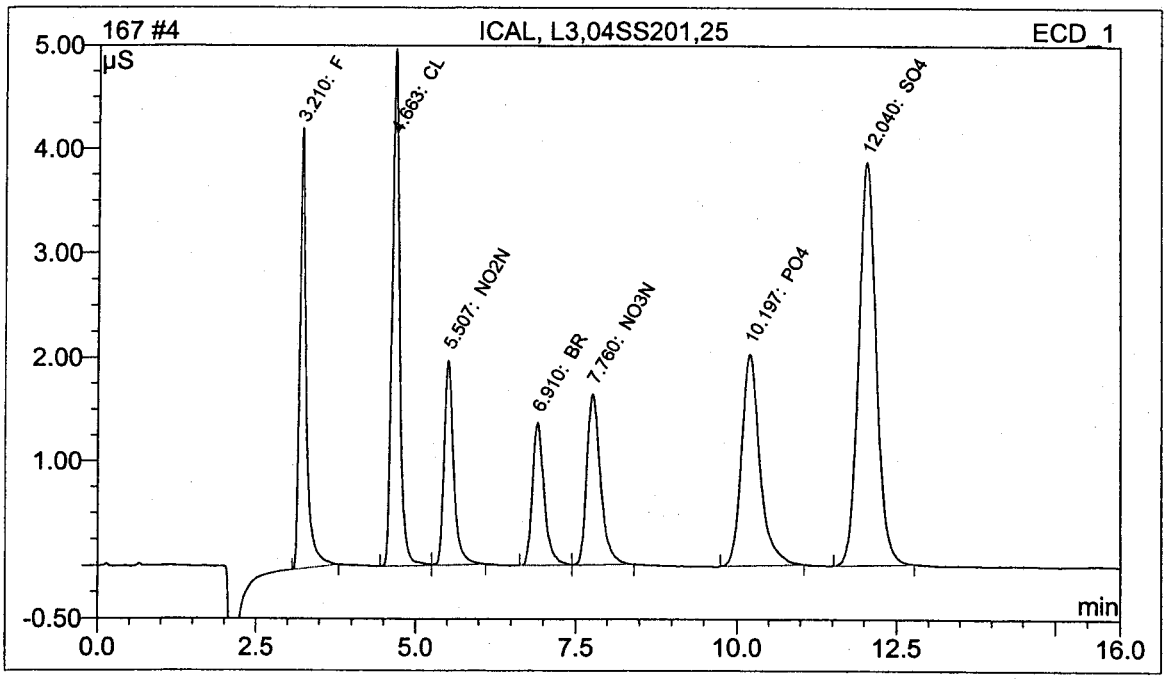
REVIEWED BY: [illegible]

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,04SS201,25	**Sample No.:**	4
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.210	0.513649	2.0603	2.0603	
2	CL	4.663	0.676143	4.1912	4.1912	
3	NO2N	5.507	0.345537	1.0524	1.0524	
4	BR	6.910	0.288464	4.1980	4.1980	
5	NO3N	7.760	0.402072	1.0463	1.0463	
6	PO4	10.197	0.678628	4.1928	4.1928	
7	SO4	12.040	1.257777	10.4552	10.4552	



ANALYZED BY:

MRS 6/16/04

REVIEWED BY:

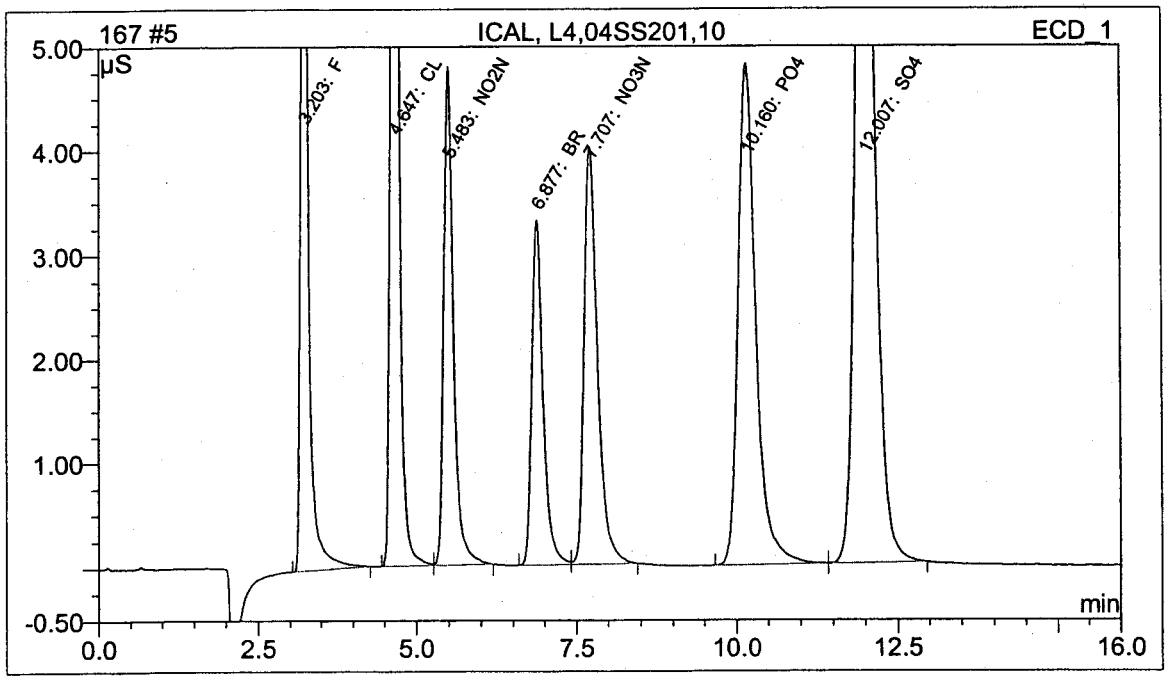
CW 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,04SS201,10	**Sample No.:**	5
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.203	1.260321	4.9610	4.9610	
2	CL	4.647	1.663692	9.8849	9.8849	
3	NO2N	5.483	0.831086	2.4675	2.4675	
4	BR	6.877	0.687400	9.8791	9.8791	
5	NO3N	7.707	0.970557	2.4720	2.4720	
6	PO4	10.160	1.543020	9.8785	9.8785	
7	SO4	12.007	3.082077	24.7216	24.7216	



ANALYZED BY: MRS 6/16/04

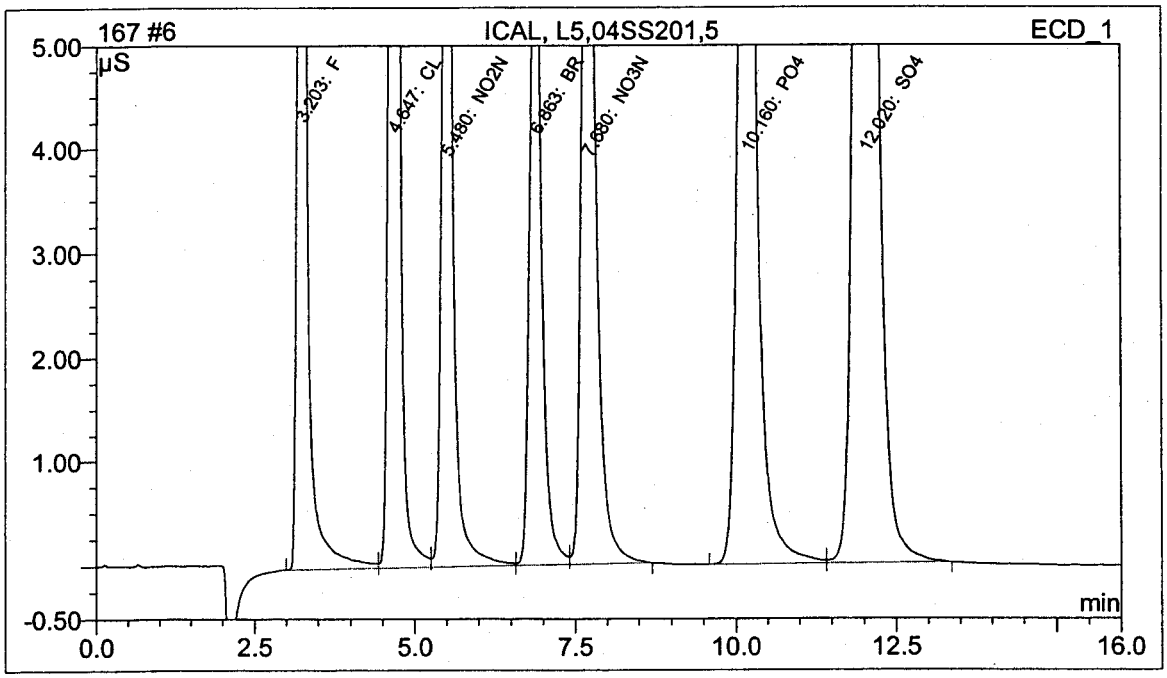
REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,04SS201,5	**Sample No.:**	6
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.203	2.624636	10.0070	10.0070	
2	CL	4.647	3.618171	20.0191	20.0191	
3	NO2N	5.480	1.762116	5.0056	5.0056	
4	BR	6.863	1.424107	20.0216	20.0216	
5	NO3N	7.680	2.039335	5.0049	5.0049	
6	PO4	10.160	3.164794	20.0215	20.0215	
7	SO4	12.020	6.627644	50.0470	50.0470	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : IC03 Run Name :
Seqnum : 624241562008 Filename : 167_8 Injected : 15-JUN-2004 20:10
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 03WS1209 (5X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Fluoride	1.000000	0.925849	mg/L	-7	10	
Chloride	2.000000	1.976638	mg/L	-1	10	
Nitrogen, Nitrite	0.500000	0.487045	mg/L	-3	10	
Bromide	2.000000	2.012730	mg/L	1	10	
Nitrogen, Nitrate	0.500000	0.490528	mg/L	-2	10	
Orthophosphate (as P)	2.000000	1.775567	mg/L	**-11**	10	v- ***
Sulfate	5.000000	4.889075	mg/L	-2	10	

MLS 6/16/04

ICV not good for PO4P

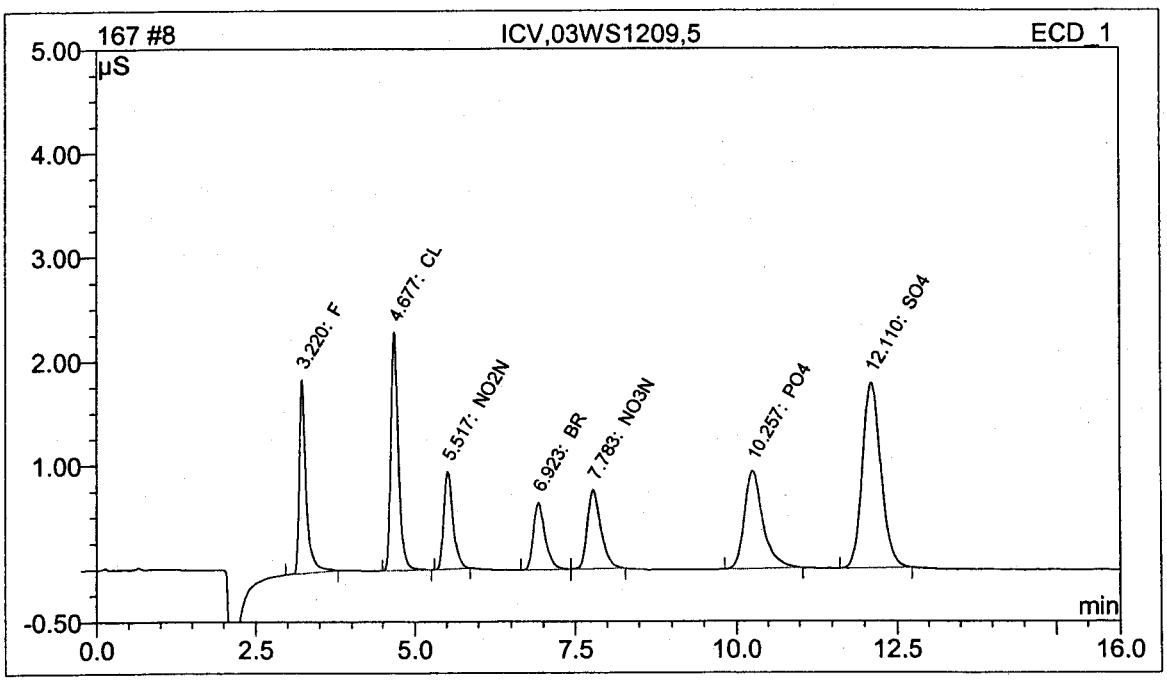
CW 6/16/04

-=low bias v=ICV
Page 1 of 1

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,03WS1209,5	**Sample No.:**	8
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 8:10 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.220	0.229108	0.9258	0.9258	
2	CL	4.677	0.313510	1.9766	1.9766	
3	NO2N	5.517	0.158258	0.4870	0.4870	
4	BR	6.923	0.137632	2.0127	2.0127	
5	NO3N	7.783	0.186900	0.4905	0.4905	
6	PO4	10.257	0.320885	1.7756	1.7756	
7	SO4	12.110	0.579828	4.8891	4.8891	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624241562007 Run Name: Injected: 15-JUN-2004 19:52
Filename: 167_7 Run Type: ICB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	[0.0217]	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	[0.0523]	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

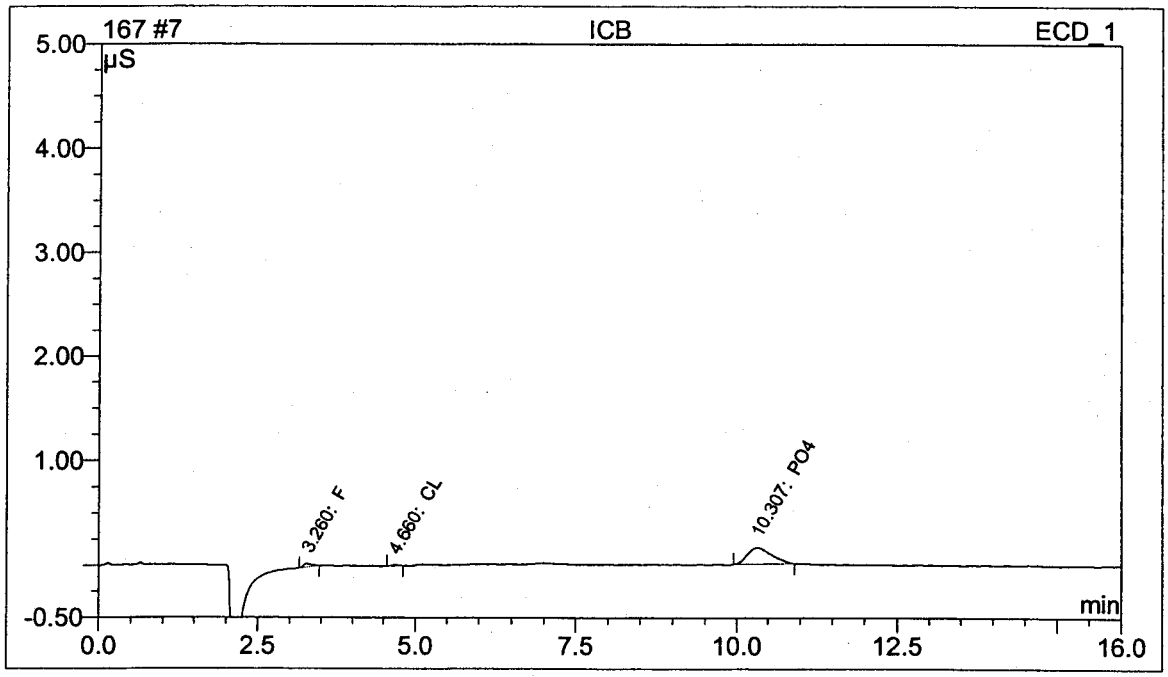
MKS 6/16/04

CW 6/16/04

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICB	**Sample No.:**	7
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:52 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.260	0.005338	0.0217	0.0217	
2	CL	4.660	0.001352	0.0087	0.0087	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
3	PO4	10.307	0.069393	0.0523	0.0523	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624241562001 Run Name: Injected: 15-JUN-2004 18:02
Filename: 167_1 Run Type: IB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624200842001	18-MAY-2004	ND	0.100000	mg/L	<RL
Chloride	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624200842001	18-MAY-2004	ND	0.050000	mg/L	<RL
Bromide	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624200842001	18-MAY-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Sulfate	624200842001	18-MAY-2004	ND	0.500000	mg/L	<RL

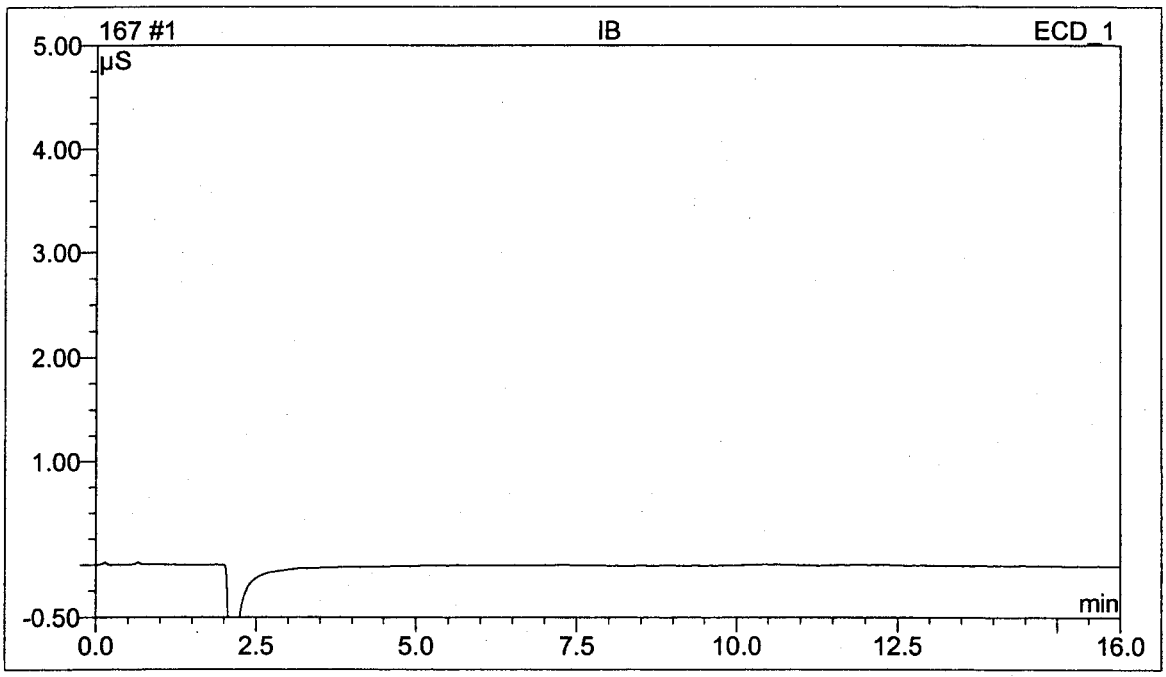
MLS 6/16/04

CW 6/16/04

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	IB	**Sample No.:**	1
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
n.a.	CL	n.a.	n.a.	n.a.	n.a.	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
n.a.	PO4	n.a.	n.a.	n.a.	n.a.	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CWatkins

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Run Name : L IDF : 1.0
Seqnum : 624505045007 Filename : 350_7 Injected : 15-DEC-2004 16:30
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 04SS442 (100X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2440	0.500000	0.494490	mg/L	-1	10	
Chloride	0.1739	0.1605	1.000000	1.019401	mg/L	2	10	
Nitrogen, Nitrite	0.3338	0.3172	0.250000	0.245109	mg/L	-2	10	
Nitrogen, Nitrate	0.3850	0.3818	0.250000	0.251448	mg/L	1	10	
Sulfate	0.1240	0.1170	2.500000	2.482143	mg/L	-1	10	

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03
Seqnum : 624505045018
Calnum : 624241562001
Standards: 04SS442 (25X)

Run Name : M
Filename : 350_18
Caldate : 15-JUN-2004

IDF : 1.0
Injected : 15-DEC-2004 19:53
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2663	2.000000	2.135244	mg/L	7	10	
Chloride	0.1739	0.1721	4.000000	4.263688	mg/L	7	10	
Nitrogen, Nitrite	0.3338	0.3547	1.000000	1.079710	mg/L	8	10	
Nitrogen, Nitrate	0.3850	0.4199	1.000000	1.091828	mg/L	9	10	
Sulfate	0.1240	0.1262	10.00000	10.49243	mg/L	5	10	

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03
Seqnum : 624505045032
Calnum : 624241562001
Standards: 04SS442 (10X)

Run Name : H
Filename : 350_32
Caldate : 15-JUN-2004

IDF : 1.0
Injected : 16-DEC-2004 00:10
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2750	5.000000	5.397699	mg/L	8	10	
Chloride	0.1739	0.1742	10.00000	10.31974	mg/L	3	10	
Nitrogen, Nitrite	0.3338	0.3439	2.500000	2.549172	mg/L	2	10	
Nitrogen, Nitrate	0.3850	0.4138	2.500000	2.628705	mg/L	5	10	
Sulfate	0.1240	0.1278	25.00000	25.57568	mg/L	2	10	

CONTINUING CALIBRATION REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Run Name : L IDF : 1.0
Seqnum : 624505045045 Filename : 350_45 Injected : 16-DEC-2004 04:10
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 04SS442 (100X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Fluoride	0.2484	0.2527	0.500000	0.512064	mg/L	2	10	
Chloride	0.1739	0.1668	1.000000	1.059267	mg/L	6	10	
Nitrogen, Nitrite	0.3338	0.3311	0.250000	0.255826	mg/L	2	10	
Nitrogen, Nitrate	0.3850	0.4069	0.250000	0.267912	mg/L	7	10	
Sulfate	0.1240	0.1240	2.500000	2.629744	mg/L	5	10	

BLANK USER REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories
EPA 300.0

Instid	: IC03	Samplenum	: QC276428	Cident	:
Seqnum	: 624505045008	Matrix	: Water	Acctnum	: TREADWELL
Filename	: 350_8	Batchnum	: 97518	Injected	: 15-DEC-2004 16:48
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Calnum	: 624241562001	Caldate	: 15-JUN-2004	Caltype	:

Analyte	Result	RL	Flags
Fluoride	ND	0.10	u
Chloride	ND	0.20	u
Nitrogen, Nitrite	ND	0.05	u
Nitrogen, Nitrate	ND	0.05	u
Sulfate	ND	0.50	u

u=use

INSTRUMENT BLANK REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624505045019 Run Name: Injected: 15-DEC-2004 20:11
Filename: 350_19 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

INSTRUMENT BLANK REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624505045033 Run Name: Injected: 16-DEC-2004 00:29
Filename: 350_33 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	[0.0141]	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

INSTRUMENT BLANK REPORT FOR 176662 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624505045046 Run Name: Injected: 16-DEC-2004 04:28
Filename: 350_46 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

SEQUENCE SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Sequence: 624241562 Instrument: IC03 Ion Chromatograph Begun: 15-JUN-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	167_1	IB				15-JUN-2004 18:02	1.0		25				
002	167_2	ICAL	L1			15-JUN-2004 18:20	1.0					1	
003	167_3	ICAL	L2			15-JUN-2004 18:38	1.0					1	
004	167_4	ICAL	L3			15-JUN-2004 18:57	1.0					1	
005	167_5	ICAL	L4			15-JUN-2004 19:15	1.0					1	
006	167_6	ICAL	L5			15-JUN-2004 19:34	1.0					1	
007	167_7	ICB				15-JUN-2004 19:52	1.0		25				
008	167_8	ICV				15-JUN-2004 20:10	1.0	1	25			2	
009	167_9	X	SHUTDOWN			15-JUN-2004 20:29	1.0						

218

Stds used: 1=04SS201 2=03WS1209

SEQUENCE SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Sequence: 624505045 Instrument: IC03 Ion Chromatograph Begun: 15-DEC-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	350_7	CCV	L	97518		15-DEC-2004 16:30	1.0	1	25			1	
008	350_8	CCB/MB	QC276428	97518	Water	15-DEC-2004 16:48	1.0	1	25				
009	350_9	BS	QC276429	97518	Water	15-DEC-2004 17:07	1.0	1	25			1	
010	350_10	BSD	QC276430	97518	Water	15-DEC-2004 17:25	1.0	1	25			1	
011	350_11	SAMPLE	176662-001	97518	Water	15-DEC-2004 17:44	1.0	2	25				2:SO4=186.273
012	350_12	SAMPLE	176662-002	97518	Water	15-DEC-2004 18:02	1.0	2	25				2:CL=178.276
013	350_13	SAMPLE	176662-003	97518	Water	15-DEC-2004 18:20	1.0	2	25				2:CL=104.948
014	350_14	SAMPLE	176662-004	97518	Water	15-DEC-2004 18:39	1.0	2	25				2:CL=112.712
015	350_15	SAMPLE	176662-005	97518	Water	15-DEC-2004 18:57	1.0	1	25				1:CL=116.113
016	350_16	MSS	176662-006	97518	Water	15-DEC-2004 19:16	1.0	3	25				2:CL=106.841
017	350_17	SAMPLE	176662-007	97518	Water	15-DEC-2004 19:34	1.0	2	25				2:CL=115.178
018	350_18	CCV	M	97518		15-DEC-2004 19:53	1.0		25			1	
019	350_19	CCB		97518		15-DEC-2004 20:11	1.0		25				
020	350_20	X	CCV	97518		15-DEC-2004 20:29	1.0					1	
021	350_21	X	CCB	97518		15-DEC-2004 20:48	1.0						
022	350_22	SAMPLE	176662-008	97518	Water	15-DEC-2004 21:06	1.0	3	25				3:SO4=253.320
023	350_23	SAMPLE	176662-009	97518	Water	15-DEC-2004 21:25	1.0	1	25				1:CL=78.6527
024	350_24	SAMPLE	176662-010	97518	Water	15-DEC-2004 21:43	1.0	3	25				3:CL=92.8816
025	350_25	MSS	176662-006	97518	Water	15-DEC-2004 22:01	25.0		25				
026	350_26	MS	QC276431	97518	Water	15-DEC-2004 22:20	25.0	1	25			1	
027	350_27	MSD	QC276432	97518	Water	15-DEC-2004 22:38	25.0	1	25			1	
028	350_28	SAMPLE	176662-001	97518	Water	15-DEC-2004 22:57	25.0		25				
029	350_29	SAMPLE	176662-002	97518	Water	15-DEC-2004 23:15	25.0		25				
030	350_30	SAMPLE	176662-003	97518	Water	15-DEC-2004 23:33	25.0		25				
031	350_31	SAMPLE	176662-004	97518	Water	15-DEC-2004 23:52	25.0		25				
032	350_32	CCV	H	97518		16-DEC-2004 00:10	1.0		25			1	
033	350_33	CCB		97518		16-DEC-2004 00:29	1.0		25				
034	350_34	X	CCV	97518		16-DEC-2004 00:47	1.0					1	
035	350_35	X	CCB	97518		16-DEC-2004 01:05	1.0						
036	350_36	SAMPLE	176662-005	97518	Water	16-DEC-2004 01:24	25.0		25				
037	350_37	SAMPLE	176662-007	97518	Water	16-DEC-2004 01:42	25.0		25				

Stds used: 1=04SS442

SEQUENCE SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Sequence: 624505045 Instrument: IC03 Ion Chromatograph Begun: 15-DEC-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	350_38	SAMPLE	176662-008	97518	Water	16-DEC-2004 02:01	25.0		25				
039	350_39	SAMPLE	176662-009	97518	Water	16-DEC-2004 02:19	10.0		25				
040	350_40	SAMPLE	176662-010	97518	Water	16-DEC-2004 02:38	25.0		25				
041	350_41	X	BLK	97518		16-DEC-2004 02:56	1.0						
042	350_42	SAMPLE	176649-002	97518	Water	16-DEC-2004 03:14	100.0		25				
043	350_43	SAMPLE	176649-002	97518	Water	16-DEC-2004 03:33	10.0	1	25				1:NO3N=30.0634
044	350_44	X	BLK	97518		16-DEC-2004 03:51	1.0						
045	350_45	CCV	L	97518		16-DEC-2004 04:10	1.0	2	25			1	
046	350_46	CCB		97518		16-DEC-2004 04:28	1.0		25				
047	350_47	X	CCV	97518		16-DEC-2004 04:46	1.0					1	
048	350_48	X	CCB	97518		16-DEC-2004 05:05	1.0						
049	350_49	X	SHUTDOWN	97518		16-DEC-2004 05:23	1.0						

220

Stds used: 1=04SS442

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176662 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4
176662-001	IC03	12/15/04 17:44	1.0	+		+	+	
176662-001	IC03	12/15/04 22:57	25.0		+			+
176662-002	IC03	12/15/04 18:02	1.0	+		+	+	
176662-002	IC03	12/15/04 23:15	25.0		+			+
176662-003	IC03	12/15/04 18:20	1.0	+		+	+	
176662-003	IC03	12/15/04 23:33	25.0		+			+
176662-004	IC03	12/15/04 18:39	1.0	+		+	+	
176662-004	IC03	12/15/04 23:52	25.0		+			+
176662-005	IC03	12/15/04 18:57	1.0	+		+	+	+
176662-005	IC03	12/16/04 01:24	25.0		+			
176662-006	IC03	12/15/04 19:16	1.0	+		+		+
176662-006	IC03	12/15/04 22:01	25.0		+		+	
176662-007	IC03	12/15/04 19:34	1.0	+		+		+
176662-007	IC03	12/16/04 01:42	25.0		+		+	
176662-008	IC03	12/15/04 21:06	1.0	+		+		
176662-008	IC03	12/16/04 02:01	25.0		+		+	+
176662-009	IC03	12/15/04 21:25	1.0	+		+	+	+
176662-009	IC03	12/16/04 02:19	10.0		+			
176662-010	IC03	12/15/04 21:43	1.0	+		+		
176662-010	IC03	12/16/04 02:38	25.0		+		+	+
QC276428	IC03	12/15/04 16:48	1.0	+	+	+	+	+
QC276429	IC03	12/15/04 17:07	1.0	+	+	+	+	+
QC276430	IC03	12/15/04 17:25	1.0	+	+	+	+	+
QC276431	IC03	12/15/04 22:20	25.0	+	+	+	+	+
QC276432	IC03	12/15/04 22:38	25.0	+	+	+	+	+

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 97518
Date Started: 12/15/04
Prep Chemist: MRS

BK 2052
Page 2

	Sample #	Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	176649-002 A-D	N/A	100x / 10x	P, Ag, Na, S	Comp. bottles A-D
2	176662-001 E	1.46	1x / 25x	S	
3	-002	1.62	/		
4	-003	0.99	/		
5	-004	1.10	/		
6	-005	0.95	/		
7	-006	1.03	/		MSS
8	-007	1.08	/		
9	-008	1.31	/		
10	-009 F	0.55	/ 10x		
11	-010 E	1.05	/ 25x		
12	MB QC276428	N/A	1x	N/A	
13	BS QC276429				
14	BSD QC276430				
15	MS QC276431 E		25x	S	
16	MSD QC276432 E		25x	S	
17					
18					
19					
20					

		Mfg & Lot # / Time / Program	Initials / Date
	Eluent Reagent ID	100X MRS 11/22/04	MRS 12/15/04
BS/BSD Spiked with	0.2 mL of :	0455442	
MS/MSD Spiked with	0.1 mL of :	0455442	
Filters Used:	Ag: OnGuard II Ag	~~N/A~~ MRS 12/15/04 040721-1-Ag	
	Na: OnGuard II Na	MRS 12/15/04 040325-1-Na	
	P: OnGuard II P	MRS 12/15/04 ~~N/A~~ 031202-1-P	
	RP: OnGuard II RP	MRS 12/15/04 N/A	
	S: 0.20um/0.45um	Acrodisc lot # A104208 04	

MRJ 12/15/04
Extraction Chemist / Date

Continued from page 222
Continued on page

SJD 12/15/04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97518
Date Started: 15-DEC-2004
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
176649-002			Acme Fill Corp.	Water	NITRATE, NITRITE	28-DEC-2004
176662-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
176662-010			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	28-DEC-2004
QC276428	MB			Water		
QC276429	BS			Water		
QC276430	BSD			Water		
QC276431	MS	of 176662-006		Water		
QC276432	MSD	of 176662-006		Water		

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water

Analyte	Units	IC01	IC02	IC03
Fluoride	mg/L	05/11/04 0.0046		05/26/04 0.0095
Chloride	mg/L	05/11/04 0.024		05/26/04 0.056
Nitrogen, Nitrite	mg/L	05/11/04 0.0083		05/26/04 0.011
Bromide	mg/L	05/11/04 0.038	01/06/03 0.090	05/26/04 0.031
Nitrogen, Nitrate	mg/L	05/11/04 0.0073		05/26/04 0.011
Orthophosphate (as P)	mg/L	05/11/04 0.028		05/26/04 0.045
Sulfate	mg/L	05/11/04 0.054		05/26/04 0.059

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Diln Fac:	1.000
Field ID:	BB3GW100	Batch#:	97620
Lab ID:	176662-010	Sampled:	12/14/04
Matrix:	Water	Received:	12/15/04
Units:	mg/L	Analyzed:	12/17/04

Result	RL
2,280	10

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Units:	mg/L
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276849	Batch#:	97620
Matrix:	Water	Analyzed:	12/17/04

Result	RL
ND	10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	176662	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	97620
Field ID:	ZZZZZZZZZZ	Sampled:	12/16/04
MSS Lab ID:	176721-001	Received:	12/17/04
Matrix:	Water	Analyzed:	12/17/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC276850		100.0	108.0		108	79-120			1.000
BSD	QC276851		100.0	112.0		112	79-120	4	20	1.000
SDUP	QC276852	18,560		18,760	100			1	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis: **Total Dissolved Solids**
Method: **EPA160.1** / SMWW 2540c
Matrix: Water
SOP#: tds_rv 7.doc

Analysis Date: **17-Dec-04**
Batch #: **97620**
Analyst: RS

BATCH QC DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	Recovery,%	RPD,%
MB	50	1	45.3177	45.3177	0.0000	ND	10					
BS	50	1	50.5453	50.5507	0.0054	108.0	10	1,000	5	100	**108**	
BSD	50	1	45.8207	45.8263	0.0056	112.0	10	1,000	5	100	**112**	**3.64**
176721-001	5	10	49.4598	49.5526	0.0928	18,560.0	100					
SDUP	5	10	50.6351	50.7289	0.0938	18,760.0	100					**1.07**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 120
MS/ MSD	20	20 - 195

SAMPLE DATA

Sample	Sample Vol (mL)	DF (50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)
176662-001	50	1	49.1820	49.2006	0.0186	372.0	10
176662-002	50	1	50.5946	50.6552	0.0606	1,212.0	10
176662-003	50	1	52.1539	52.1917	0.0378	756.0	10
176662-004	50	1	51.2224	51.2674	0.0450	900.0	10
176662-005	50	1	49.3505	49.3826	0.0321	642.0	10
176662-006	50	1	47.1497	47.1864	0.0367	734.0	10
176662-007	50	1	49.7680	49.8074	0.0394	788.0	10
176662-008	50	1	47.0151	47.0761	0.0610	1,220.0	10
176662-009	50	1	44.1827	44.2041	0.0214	428.0	10
176662-010	50	1	49.0250	49.1392	0.1142	2,284.0	10
176704-001	40	1.25	52.6758	52.7687	0.0929	2,322.5	13
176704-002	40	1.25	49.5948	49.6822	0.0874	2,185.0	13
176704-003	40	1.25	51.4119	51.4839	0.0720	1,800.0	13
176704-004	40	1.25	49.3327	49.4207	0.0880	2,200.0	13
176704-005	40	1.25	49.9013	49.9779	0.0766	1,915.0	13
176704-006	40	1.25	49.0822	49.1748	0.0926	2,315.0	13
176719-001	15	3.333	47.8145	47.9483	0.1338	8,920.0	33
176719-002	26	1.923	47.3937	47.4437	0.0500	1,923.1	19
176719-003	5	10	49.6836	49.7568	0.0732	14,640.0	100

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: _____

TDS (Total Dissolved Solids)
EPA 160.1 / SMWW 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 97620

Prep Date: 12-17-04
Prep Time: 15:30

Benchbook#: **BK2018**
Page: **28**

Filter Mfg/ Lot#: D1377555
Spike WS#: 0442520055

Spike WS Conc (mg/L): 1,000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	12-17-04	12-19-04	12-19-04	12-19-04		
Time:	17:50	13:10	16:50	17:50		
Temp (C):	90°C	180°C	180°C	180°C		

	Sample # / Letter	EC Value (µS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt.(g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
1	MB		50	8	45.3177	45.3177	45.3174	
	BS		50	2	50.5453	50.5507	50.5509	
	BSD	26,400 RS12-17-04	50	7	45.8207	45.8263	45.8262	
	~~176721-001 E~~ ~~176649-001 B~~ RS12-17-04	~~25,000~~	5	CT	49.4598	49.5526	49.5524	
5	SdUP -001 b	RS12-17-04 ~~22,000~~ 38,400	5	L	50.6351	50.7289	50.7290	
	176662-001 E	1380	50	LK	49.1820	49.2006	49.2008	
	-002	1660	50	SM	50.5946	50.6552	50.6550	
	-003	1159	50	E	52.1539	52.1917	52.1915	
	-004	1304	50	b	51.2224	51.2674	51.2670	
10	-005	1158	50	MM	49.3505	49.3826	49.3824	
	-006	1194	50	K	47.1497	47.1864	47.1860	
	-007	1307	50	n	49.7680	49.8074	49.8070	
	-008	1614	50	6	47.0151	47.0761	47.0763	
	-009 E	695	50	0	44.1827	44.2041	44.2040	
15	-010 E	1350	50	RO	49.0250	49.1392	49.1390	
	176704-001 E	13,650	40	XX	52.6758	52.7687	52.7690	
	-002	3,300	40	A	49.5948	49.6822	49.6824	
	-003	2,950	40	K	51.4119	51.4839	51.4840	
	-004	2,870	40	R	49.3327	49.4207	49.4206	
20	-005	2,890	40	1	49.9013	49.9779	49.9779	
	-006	3,610	40	AY	49.0822	49.1748	49.1749	
	176719-001	12,160	15	HI	47.8145	47.9483	47.9480	
	-002	3,090	RS12-17-04 ~~40~~ 26	0	47.3937	47.4437	47.4436	
	-003	20,000	5	4	49.6836	49.7568	47.7564 RS12-19-04	

* Constant weight must be within 0.0005 from previous reading.

RShiffra 12-17-04
Analyst / Date

DLW 12-20-04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97620
Date Started: 17-DEC-2004
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
176662-001			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-002			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-003			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-004			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-005			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-006			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-007			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-008			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-009			Treadwell & Rollo	Water	TDS	28-DEC-2004
176662-010			Treadwell & Rollo	Water	TDS	28-DEC-2004
176704-001			URS Corporation	Water	TDS	29-DEC-2004
176704-002			URS Corporation	Water	TDS	29-DEC-2004
176704-003			URS Corporation	Water	TDS	29-DEC-2004
176704-004			URS Corporation	Water	TDS	29-DEC-2004
176704-005			URS Corporation	Water	TDS	29-DEC-2004
176704-006			URS Corporation	Water	TDS	29-DEC-2004
176719-001			Questa Engineering	Water	TDS	21-DEC-2004
176719-002			Questa Engineering	Water	TDS	21-DEC-2004
176719-003			Questa Engineering	Water	TDS	21-DEC-2004
176721-001			Engineering/Remedi	Water	TDS	20-DEC-2004
QC276849	MB			Water	TDS	
QC276850	BS			Water	TDS	
QC276851	BSD			Water	TDS	
QC276852	SDUP	of 176721-001		Water	TDS	

Volatile Organic Compounds

AMENDED

INITIAL CALIBRATION REPORT
- Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	jkn12	494472916012	0.5/1PPB	23-NOV-2004 20:50	04SS408 (500000X), 04WS2168A (500000X), 04WS2204A (1000000X), 04WS2096C (5000X)
2	jkn13	494472916013	5PPB	23-NOV-2004 21:23	04SS408 (100000X), 04WS2168A (50000X), 04WS2204A (200000X), 04WS2096C (5000X)
3	jkn14	494472916014	10PPB	23-NOV-2004 21:57	04SS408 (50000X), 04WS2168A (25000X), 04WS2204A (100000X), 04WS2096C (5000X)
4	jkn15	494472916015	20PPB	23-NOV-2004 22:30	04SS408 (25000X), 04WS2168A (12500X), 04WS2204A (50000X), 04WS2096C (5000X)
5	jkn16	494472916016	50PPB	23-NOV-2004 23:04	04SS408 (10000X), 04WS2168A (5000X), 04WS2204A (20000X), 04WS2096C (5000X)
6	jkn17	494472916017	75PPB	23-NOV-2004 23:38	04SS408 (6667X), 04WS2168A (3333X), 04WS2204A (13333X), 04WS2096C (5000X)
7	jkn18	494472916018	100PPB	24-NOV-2004 00:11	04SS408 (5000X), 04WS2168A (2500X), 04WS2204A (10000X), 04WS2096C (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Freon 12	0.2546m	0.2616	0.2885	0.2906	0.3328	0.3024	0.3100	AVRG	R		3.430746		ug/L	0.2915	9	0.0500	0.99	15	
Chloromethane	0.4805m	0.4619	0.4573	0.4466	0.4639	0.4307	0.4230	AVRG	R		2.212463		ug/L	0.4520	4	0.1000	0.99	15	
Vinyl Chloride	0.3805m	0.3833	0.3975	0.3862	0.4166	0.3859	0.3871	AVRG	R		2.557536		ug/L	0.3910	3	0.0500	0.99	15	
Bromomethane	0.1611m	0.2005	0.2251	0.2310	0.2518	0.2462	0.2659	QUAD	R	0.338885	4.347281	-0.02182	ug/L	0.2260	0.999	0.0500	0.99	15	
Chloroethane	0.2290m	0.2325m	0.2325	0.2233	0.2358	0.2250	0.2267	AVRG	R		4.362159		ug/L	0.2292	2	0.0500	0.99	15	
Trichlorofluoromethane	0.3104	0.3143	0.3338	0.3136	0.3631	0.3374	0.3446	AVRG	R		3.020849		ug/L	0.3310	6	0.0500	0.99	15	
Acetone		0.1020	0.1026	0.1003	0.0976	0.0878	0.0914	AVRG	R		10.31533		ug/L	0.0969	6	0.0500	0.99	15	
Freon 113	0.1840	0.1584	0.1904	0.2140	0.2188	0.2154	0.2154	AVRG	R		5.012672		ug/L	0.1995	11	0.0500	0.99	15	
1,1-Dichloroethene	0.1870	0.1885	0.1942	0.2181	0.2158	0.2165	0.2180	AVRG	R		4.867294		ug/L	0.2055	7	0.0500	0.99	15	
Methylene Chloride		0.2947	0.2840	0.2864	0.2819	0.2729	0.2825	AVRG	R		3.524087		ug/L	0.2838	2	0.0500	0.99	15	
Carbon Disulfide	0.9196	0.7675	0.8000	0.8450	0.8464	0.8232	0.8207	AVRG	R		1.202253		ug/L	0.8318	6	0.0500	0.99	15	
MTBE	0.7204	0.6792	0.7086	0.7227	0.7270	0.6902	0.7094	AVRG	R		1.412019		ug/L	0.7082	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.2794	0.2483	0.2456	0.2487	0.2525	0.2503	0.2539	AVRG	R		3.935293		ug/L	0.2541	5	0.0500	0.99	15	
Vinyl Acetate	0.8622	0.7309	0.7201m	0.7677	0.7801m	0.7122m	0.7158	AVRG	R		1.323535		ug/L	0.7556	7	0.0500	0.99	15	
1,1-Dichloroethane	0.4901	0.4813	0.4741	0.4654	0.4647	0.4530	0.4576	AVRG	R		2.130167		ug/L	0.4694	3	0.1000	0.99	15	
2-Butanone		0.1404	0.1601	0.1605	0.1612	0.1531	0.1610	AVRG	R		6.408064		ug/L	0.1561	5	0.0500	0.99	15	
2,2-Dichloropropane	0.2837	0.2796	0.2794	0.2985	0.2978	0.2918	0.2929	AVRG	R		3.459219		ug/L	0.2891	3	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.2915	0.2853	0.2720	0.2787	0.2794	0.2751	0.2778	AVRG	R		3.571966		ug/L	0.2800	2	0.0500	0.99	15	

Flags used: m=manual integration for ~~inc~~ int. by Target
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

ICAL - good
ICV - 2Clve ↓ + ACE limit (FIZ↓, ClMet↓)

11/29/04

11/29/04

INITIAL CALIBRATION REPORT
- Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.4786	0.4345	0.4282	0.4273	0.4271	0.4207	0.4178	AVRG	R		2.307155		ug/L	0.4334	5	0.0500	0.99	15	
Bromochloromethane	0.1136	0.1425	0.1422	0.1445	0.1502	0.1461	0.1498	AVRG	R		7.078632		ug/L	0.1413	9	0.0500	0.99	15	
1,1,1-Trichloroethane	0.2762	0.2834	0.2988	0.3147	0.3147	0.3123	0.3143	AVRG	R		3.310835		ug/L	0.3020	5	0.0500	0.99	15	
1,1-Dichloropropene	0.2095m	0.1949	0.2069	0.2237	0.2231	0.2221	0.2217	AVRG	R		4.660902		ug/L	0.2146	5	0.0500	0.99	15	
Carbon Tetrachloride	0.1393m	0.1369	0.1483	0.1653	0.1693	0.1680	0.1680	AVRG	R		6.392457		ug/L	0.1564	9	0.0500	0.99	15	
1,2-Dichloroethane	0.2216	0.2171	0.2131	0.2109	0.2155	0.2095	0.2118	AVRG	R		4.667915		ug/L	0.2142	2	0.0500	0.99	15	
Benzene	0.7017	0.6507	0.6410	0.6590	0.6490	0.6380	0.6346	AVRG	R		1.530380		ug/L	0.6534	4	0.0500	0.99	15	
Trichloroethene	0.1611	0.1604	0.1610	0.1645	0.1674	0.1641	0.1671	AVRG	R		6.110462		ug/L	0.1637	2	0.0500	0.99	15	
1,2-Dichloropropane	0.2060	0.2037	0.1954	0.2002	0.2021	0.1951	0.2007	AVRG	R		4.988366		ug/L	0.2005	2	0.0500	0.99	15	
Bromodichloromethane	0.1965	0.2067	0.2041	0.2087	0.2173	0.2115	0.2160	AVRG	R		4.791772		ug/L	0.2087	3	0.0500	0.99	15	
Dibromomethane	0.1317	0.1270	0.1320	0.1339	0.1374	0.1363	0.1369	AVRG	R		7.486169		ug/L	0.1336	3	0.0500	0.99	15	
2-Chloroethylvinylether	0.1092	0.1215	0.1352	0.1365	0.1449	0.1338	0.1397	AVRG	R		7.602036		ug/L	0.1315	9	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.2157	0.2453	0.2594	0.2755	0.2414	0.2572	AVRG	R		4.014663		ug/L	0.2491	8	0.0500	0.99	15	
Tetramethyl THF	0.4347	0.3669	0.3926	0.3880	0.3900	0.3735	0.3826	AVRG	R		2.565774		ug/L	0.3897	6	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.2865	0.2785	0.2745	0.2789	0.2813	0.2759	0.2792	AVRG	R		3.580987		ug/L	0.2793	1	0.0500	0.99	15	
Toluene	0.3918	0.3677	0.3619	0.3676	0.3711	0.3649	0.3678	AVRG	R		2.699882		ug/L	0.3704	3	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.2683	0.2426	0.2427	0.2470	0.2537	0.2456	0.2504	AVRG	R		3.999387		ug/L	0.2500	4	0.0500	0.99	15	
1,1,2-Trichloroethane	0.0748	0.0958	0.0899	0.0914	0.0933	0.0905	0.0941	AVRG	R		11.11477		ug/L	0.0900	8	0.0500	0.99	15	
2-Hexanone	0.1893	0.1586	0.1755	0.1825	0.1877	0.1695	0.1796	AVRG	R		5.632904		ug/L	0.1775	6	0.0500	0.99	15	
1,3-Dichloropropane	0.3168	0.3283	0.3370	0.3321	0.3338	0.3239	0.3272	AVRG	R		3.044671		ug/L	0.3284	2	0.0500	0.99	15	
Tetrachloroethene	0.1960	0.1648	0.1705	0.1804	0.1837	0.1873	0.1879	AVRG	R		5.509715		ug/L	0.1815	6	0.0500	0.99	15	
Dibromochloromethane	0.1763	0.2008	0.2056	0.2055	0.2148	0.2126	0.2186	AVRG	R		4.880596		ug/L	0.2049	7	0.0500	0.99	15	
1,2-Dibromoethane	0.1596	0.1733	0.1806	0.1829	0.1873	0.1808	0.1866	AVRG	R		5.595170		ug/L	0.1787	5	0.0500	0.99	15	
Chlorobenzene	0.5426	0.5092	0.5109	0.5029	0.5068	0.4935	0.4917	AVRG	R		1.967616		ug/L	0.5082	3	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.1673	0.1645	0.1629	0.1688	0.1762	0.1742	0.1784	AVRG	R		5.870434		ug/L	0.1703	4	0.0500	0.99	15	
Ethylbenzene	0.8862	0.8186	0.8451	0.8488	0.8430	0.8153	0.8051	AVRG	R		1.194135		ug/L	0.8374	3	0.0500	0.99	15	
m,p-Xylenes	0.2953	0.2841	0.2911	0.2964	0.2998	0.2963	0.2965	AVRG	R		3.399005		ug/L	0.2942	2	0.0500	0.99	15	
o-Xylene	0.2687	0.2745	0.2849	0.2849	0.2915	0.2894	0.2909	AVRG	R		3.527078		ug/L	0.2835	3	0.0500	0.99	15	
Styrene	0.3918	0.4744	0.4753	0.4914	0.5020	0.4940	0.4947	AVRG	R		2.106144		ug/L	0.4748	8	0.0500	0.99	15	
Bromoform	0.1592	0.1323	0.1430	0.1503	0.1566	0.1532	0.1595	AVRG	R		6.641220		ug/L	0.1506	7	0.1000	0.99	15	
Isopropylbenzene	1.5856	1.5487	1.5910	1.6567	1.6017	1.5289	1.5095	AVRG	R		0.635089		ug/L	1.5746	3	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	0.6504	0.6029	0.6492	0.6451	0.6555	0.6127	0.6210	AVRG	R		1.577664		ug/L	0.6338	3	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1660	0.1289	0.1525	0.1483	0.1505	0.1423	0.1470	AVRG	R		6.759519		ug/L	0.1479	8	0.0500	0.99	15	
Propylbenzene	1.8517	1.8598	1.9175	1.9734	1.9262	1.8369	1.7842	AVRG	R		0.532334		ug/L	1.8785	3	0.0500	0.99	15	
Bromobenzene	0.4239	0.4481	0.4679	0.4700	0.4749	0.4676	0.4734	AVRG	R		2.170001		ug/L	0.4608	4	0.0500	0.99	15	
1,3,5-Trimethylbenzene	0.9821	1.0261	1.1088	1.0958	1.1209	1.0721	1.0812	AVRG	R		0.934961		ug/L	1.0696	5	0.0500	0.99	15	
2-Chlorotoluene	1.2481	1.3178	1.3055	1.3163	1.3121	1.2665	1.2368	AVRG	R		0.777498		ug/L	1.2862	3	0.0500	0.99	15	
4-Chlorotoluene	1.1250	1.1895	1.1929	1.1707	1.1905	1.1444	1.1356	AVRG	R		0.859043		ug/L	1.1641	2	0.0500	0.99	15	
tert-Butylbenzene	0.9378	0.9287	0.9414	0.9820	1.0105	0.9453	0.9579	AVRG	R		1.044226		ug/L	0.9576	3	0.0500	0.99	15	
1,2,4-Trimethylbenzene	0.8834	1.0108	1.0210	1.0401	1.0275	0.9969	1.0200	AVRG	R		1.000049		ug/L	1.0000	5	0.0500	0.99	15	
sec-Butylbenzene	1.3186	1.3284	1.4775	1.5585	1.5158	1.4636	1.4389	AVRG	R		0.692968		ug/L	1.4431	6	0.0500	0.99	15	
para-Isopropyl Toluene	0.9686	0.9476	1.0178	1.0559	1.0606	1.0335	1.0434	AVRG	R		0.982124		ug/L	1.0182	4	0.0500	0.99	15	
1,3-Dichlorobenzene	0.6691	0.7410	0.7291	0.7346	0.7400	0.7281	0.7226	AVRG	R		1.382156		ug/L	0.7235	3	0.0500	0.99	15	
1,4-Dichlorobenzene	0.7893	0.7557	0.7556	0.7611	0.7502	0.7464	0.7398	AVRG	R		1.321227		ug/L	0.7569	2	0.0500	0.99	15	
n-Butylbenzene	0.9455	0.8885	0.9722	1.0121	0.9935	0.9618	0.9746	AVRG	R		1.037328		ug/L	0.9640	4	0.0500	0.99	15	
1,2-Dichlorobenzene	0.7242	0.6982	0.7061	0.7116	0.7082	0.6938	0.6970	AVRG	R		1.417304		ug/L	0.7056	1	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.1140	0.0790	0.0917	0.0969	0.0983	0.0919	0.0969	AVRG	R		10.46819		ug/L	0.0955	11	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.3021	0.2427	0.2596	0.2668	0.2632	0.2574	0.2762	AVRG	R		3.747484		ug/L	0.2668	7	0.0500	0.99	15	
Hexachlorobutadiene	0.1381	0.1415	0.1562	0.1700	0.1648	0.1638	0.1651	AVRG	R		6.366377		ug/L	0.1571	8	0.0500	0.99	15	
Naphthalene	0.5754	0.5009	0.5892	0.6103	0.6260	0.5850	0.6662	AVRG	R		1.685522		ug/L	0.5933	9	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.2299	0.2159	0.2336	0.2399	0.2473	0.2340	0.2571	AVRG	R		4.222816		ug/L	0.2368	6	0.0500	0.99	15	
tert-Butyl Alcohol (TBA)	0.0178m	0.0188	0.0224	0.0233	0.0239	0.0226	0.0249	AVRG	R		45.54697		ug/L	0.0220	12	0.0050	0.99	15	
Isopropyl Ether (DIPE)	1.0578	1.0338	1.0400	1.0355	1.0163	0.9871	0.9888	AVRG	R		0.977752		ug/L	1.0228	3	0.0500	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	0.8128	0.8142	0.8268	0.8363	0.8390	0.8188	0.8248	AVRG	R		1.212616		ug/L	0.8247	1	0.0500	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.4530	0.4708	0.4958	0.5000	0.5085	0.4903	0.5006	AVRG	R		2.047469		ug/L	0.4884	4	0.0500	0.99	15	
Ethanol	0.0027	0.0033m	0.0039	0.0039	0.0038	0.0039	0.0042	AVRG	R		272.8818		ug/L	0.0037	14	5.0E-4	0.99	15	
Isopropanol		0.0145	0.0174	0.0194	0.0177	0.0167	0.0183	AVRG	R		57.68296		ug/L	0.0173	10	0.0050	0.99	15	
Tetrahydrofuran	0.1070	0.0813	0.0911	0.0912	0.0917	0.0826	0.0849	AVRG	R		11.11701		ug/L	0.0900	10	0.0050	0.99	15	
Dibromofluoromethane	0.5824	0.5865	0.5855	0.5774	0.5835	0.5807	0.5817	AVRG	R		1.716681		ug/L	0.5825	1	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.3675	0.3644	0.3644	0.3656	0.3725	0.3648	0.3682	AVRG	R		2.726473		ug/L	0.3668	1	0.0500	0.99	15	
Trifluorotoluene	0.1972	0.1890	0.2056	0.2265	0.2355	0.2344	0.2366	AVRG	R		4.591005		ug/L	0.2178	9	0.0500	0.99	15	
Toluene-d8	0.9988	0.9981	0.9864	0.9997	1.0018	0.9944	1.0143	AVRG	R		1.000954		ug/L	0.9990	1	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA10 HP GCMS VOA 10 Reviewed By:
Calnum: 494472916001 Name: 826GOX10 Type: WATER Date: 23-NOV-2004 20:50 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
Bromofluorobenzene	1.1976	1.2115	1.1741	1.1826	1.1706	1.1702	1.1646	AVRG	R		0.846323		ug/L	1.1816	1	0.0500	0.99	15	

471

Flags used: m=manual integration
Curves: AVRG: Average response factor QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Lab Smp Id:
Inj Date : 23-NOV-2004 20:50
Operator : VOC
Smp Info : ICAL,04SS408,0.002/1000,04WS2168A,0.002/1000
Misc Info : 04WS2204A,0.001/1000, 0.5/1PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Cal Date : 23-NOV-2004 20:50
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 22-SEP-2004 10:51
Inst ID: MSVOA10.i

Quant Type: ISTD
Cal File: JKN12.D
Calibration Sample, Level: 7

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.812	4.808	(0.441)	7552	1.00000	0.8734(M)
2 Chloromethane	50	5.305	5.292	(0.486)	14253	1.00000	1.0631(M)
3 Vinyl Chloride	62	5.453	5.459	(0.500)	11286	1.00000	0.9731(M)
4 Bromomethane	94	6.144	6.150	(0.563)	4778	1.00000	1.0386(M)
5 Chloroethane	64	6.321	6.327	(0.579)	6791	1.00000	0.9987(M)
6 Trichlorofluoromethane	101	6.775	6.771	(0.621)	9208	1.00000	0.9377
7 Ethanol	45	6.943	6.929	(0.636)	3982	50.0000	36.6341
8 Freon 113	101	7.613	7.609	(0.697)	2729	0.50000	0.4611
9 Acetone	43	7.643	7.629	(0.700)	4907	0.50000	1.7065
10 1,1-Dichloroethene	96	7.633	7.639	(0.699)	2774	0.50000	0.4552
11 Isopropanol	45	7.751	7.737	(0.710)	3031	5.00000	5.8944
12 Carbon Disulfide	76	8.086	8.102	(0.741)	13639	0.50000	0.5528
13 Methylene Chloride	84	8.363	8.359	(0.766)	5981	0.50000	0.7106
14 tert-Butyl Alcohol (TBA)	59	8.372	8.359	(0.767)	2645	5.00000	4.0615(M)
15 MTBE	73	8.747	8.753	(0.801)	10684	0.50000	0.5086
16 trans-1,2-Dichloroethene	96	8.787	8.793	(0.805)	4144	0.50000	0.5498
17 Vinyl Acetate	43	9.369	9.374	(0.858)	12787	0.50000	0.5705
18 1,1-Dichloroethane	63	9.408	9.414	(0.862)	7268	0.50000	0.5219
19 Isopropyl Ether (DIPE)	45	9.418	9.434	(0.863)	15688	0.50000	0.5171
20 Ethyl tert-Butyl Ether (ETBE)	59	9.960	9.966	(0.912)	12055	0.50000	0.4928
21 2-Butanone	43	10.207	10.193	(0.935)	2845	0.50000	0.6146
22 cis-1,2-Dichloroethene	96	10.256	10.262	(0.939)	4323	0.50000	0.5205

11/24/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.286	10.301	(0.942)	4207	0.50000	0.4906
24 Bromochloromethane	128	10.621	10.627	(0.973)	1685	0.50000	0.4021
25 Chloroform	83	10.690	10.696	(0.979)	7098	0.50000	0.5521
26 Tetrahydrofuran	42	10.710	10.706	(0.981)	15868	5.00000	5.9473
* 27 Pentafluorobenzene	168	10.917	10.923	(1.000)	1483065	50.0000	
$ 28 Dibromofluoromethane	113	10.937	10.933	(1.002)	863740	50.0000	49.9899
29 1,1,1-Trichloroethane	97	11.065	11.071	(1.014)	4096	0.50000	0.4572
30 1,1-Dichloropropene	75	11.292	11.307	(0.934)	4861	0.50000	0.4881(M)
31 Carbon Tetrachloride	117	11.351	11.347	(0.939)	3233	0.50000	0.4453(M)
$ 32 1,2-Dichloroethane-d4	65	11.479	11.475	(0.949)	852833	50.0000	50.1033
33 1,2-Dichloroethane	62	11.597	11.593	(0.959)	5142	0.50000	0.5171
34 Benzene	78	11.637	11.643	(0.962)	16283	0.50000	0.5369
35 Methyl tert-Amyl Ether (TAME)	73	11.686	11.692	(0.967)	10511	0.50000	0.4637
* 36 1,4-Difluorobenzene	114	12.090	12.096	(1.000)	2320428	50.0000	
37 Trichloroethene	95	12.544	12.540	(1.038)	3738	0.50000	0.4921
38 1,2-Dichloropropane	63	12.860	12.856	(1.064)	4779	0.50000	0.5136
$ 39 Trifluorotoluene	146	12.840	12.846	(1.062)	4576	0.50000	0.4526
40 Dibromomethane	93	13.027	13.033	(1.077)	3055	0.50000	0.4928
41 Bromodichloromethane	83	13.195	13.191	(1.091)	4560	0.50000	0.4708
42 2-Chloroethylvinylether	63	13.510	13.516	(1.117)	5070	1.00000	0.8305
43 cis-1,3-Dichloropropene	75	13.796	13.793	(1.141)	6647	0.50000	0.5128
44 Tetramethyl THF	43	13.875	13.871	(1.148)	10086	0.50000	0.5576
45 4-Methyl-2-Pentanone	43	13.925	13.921	(1.152)	5294	0.50000	0.4579
$ 46 Toluene-d8	98	14.201	14.207	(1.175)	2317558	50.0000	49.9857
47 Toluene	92	14.290	14.295	(1.182)	9091	0.50000	0.5288
48 trans-1,3-Dichloropropene	75	14.497	14.493	(1.199)	6226	0.50000	0.5365
49 1,1,2-Trichloroethane	85	14.753	14.759	(1.220)	1735	0.50000	0.4155
50 1,3-Dichloropropane	76	14.990	14.986	(0.934)	6076	0.50000	0.4822
51 2-Hexanone	43	14.990	14.996	(0.934)	3631	0.50000	0.5332
52 Tetrachloroethene	166	15.039	15.035	(0.937)	3759	0.50000	0.5399
53 Dibromochloromethane	129	15.305	15.311	(0.954)	3382	0.50000	0.4303
54 1,2-Dibromoethane	107	15.493	15.499	(1.281)	3703	0.50000	0.4464
* 55 Chlorobenzene-d5	117	16.045	16.051	(1.000)	1917952	50.0000	
56 Chlorobenzene	112	16.084	16.080	(1.002)	10407	0.50000	0.5338
57 1,1,1,2-Tetrachloroethane	131	16.144	16.149	(1.006)	3209	0.50000	0.4911
58 Ethylbenzene	91	16.173	16.169	(1.008)	16996	0.50000	0.5290
59 m,p-Xylenes	106	16.301	16.297	(1.016)	11328	1.00000	1.0037
60 o-Xylene	106	16.785	16.781	(1.046)	5153	0.50000	0.4738
61 Styrene	104	16.785	16.791	(1.046)	7515	0.50000	0.4126
62 Bromoform	173	17.061	17.057	(1.063)	3053	0.50000	0.5285
63 Isopropylbenzene	105	17.189	17.185	(0.917)	13227	0.50000	0.5034
64 Cyclohexanone_	55	17.327	17.323	(0.924)	3158	5.00000	5.1408
$ 65 Bromofluorobenzene	95	17.386	17.382	(0.927)	999037	50.0000	50.6776
66 1,1,2,2-Tetrachloroethane	83	17.485	17.481	(0.933)	5426	0.50000	0.5130
67 1,2,3-Trichloropropane	110	17.564	17.560	(0.937)	1385	0.50000	0.5611
68 Bromobenzene	156	17.613	17.609	(0.940)	3536	0.50000	0.4599
69 Propylbenzene	91	17.643	17.648	(0.941)	15447	0.50000	0.4928
70 2-Chlorotoluene	91	17.800	17.796	(0.950)	10412	0.50000	0.4852
71 1,3,5-Trimethylbenzene	105	17.820	17.816	(0.951)	8193	0.50000	0.4591
72 4-Chlorotoluene	91	17.919	17.915	(0.956)	9385	0.50000	0.4832
73 tert-Butylbenzene	119	18.234	18.230	(0.973)	7823	0.50000	0.4896
74 1,2,4-Trimethylbenzene	105	18.274	18.270	(0.975)	7369	0.50000	0.4417
75 sec-Butylbenzene	105	18.481	18.477	(0.986)	11000	0.50000	0.4568
76 para-Isopropyl Toluene	119	18.619	18.615	(0.993)	8080	0.50000	0.4756

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Report Date: 24-Nov-2004 16:00

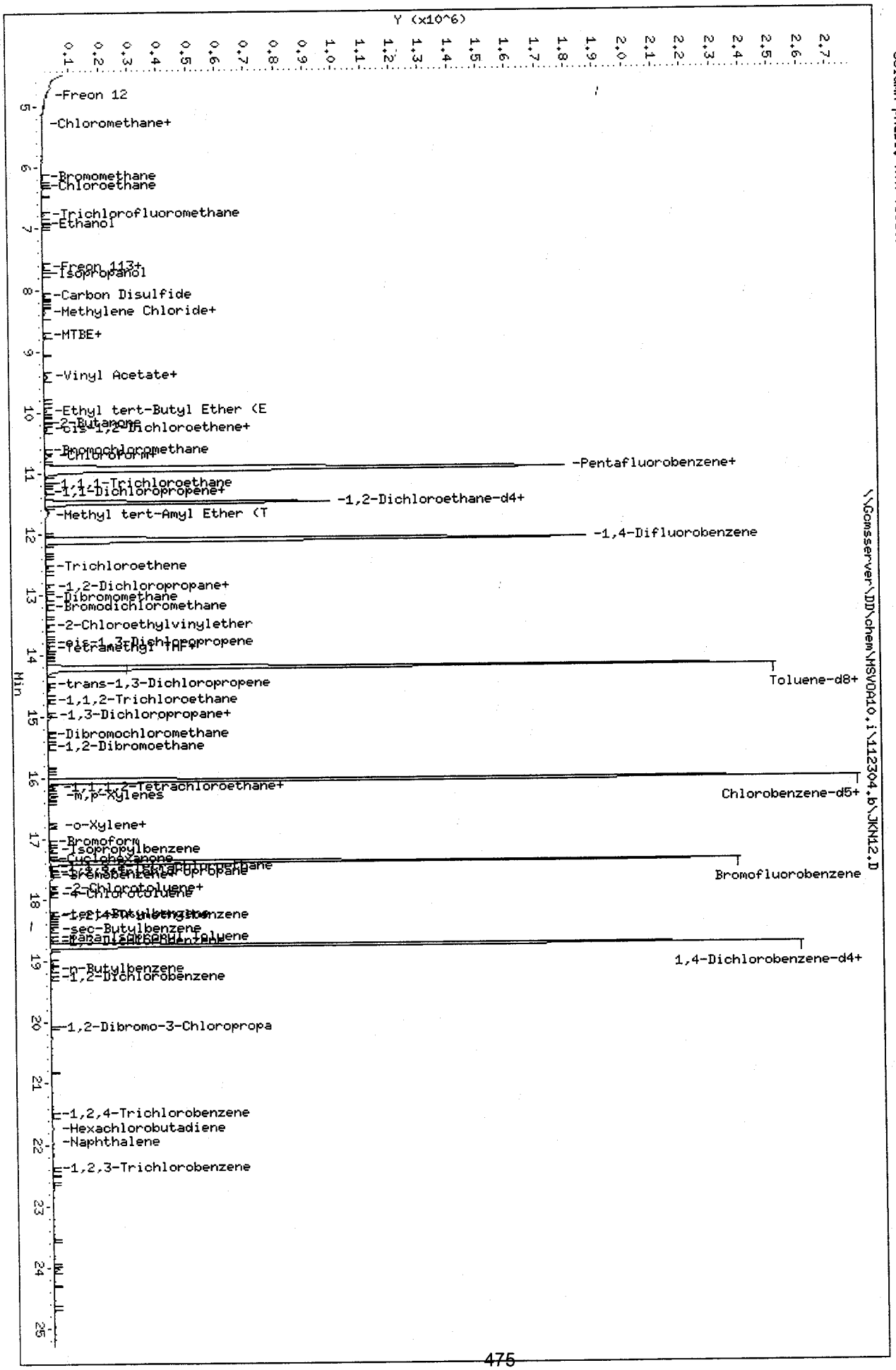
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.688	18.684	(0.997)	5582	0.50000	0.4624
* 78 1,4-Dichlorobenzene-d4	152	18.747	18.753	(1.000)	834202	50.0000	
79 1,4-Dichlorobenzene	146	18.777	18.783	(1.002)	6584	0.50000	0.5213
80 n-Butylbenzene	91	19.122	19.118	(1.020)	7887	0.50000	0.4903
81 1,2-Dichlorobenzene	146	19.260	19.266	(1.027)	6041	0.50000	0.5131
82 1,2-Dibromo-3-Chloropropane	75	20.246	20.252	(1.080)	951	0.50000	0.5966
83 1,2,4-Trichlorobenzene	180	21.518	21.514	(1.148)	2520	0.50000	0.5660
84 Hexachlorobutadiene	225	21.735	21.731	(1.159)	1152	0.50000	0.4395
85 Naphthalene	128	21.972	21.968	(1.172)	4800	0.50000	0.4849
86 1,2,3-Trichlorobenzene	180	22.386	22.382	(1.194)	1918	0.50000	0.4854

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA10.i\112304.b\JKN12.D
Date : 23-NOV-2004 20:50
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.002/1000,04WS2168A,0.002/1000
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 23-NOV-2004 21:23
MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC
Inst ID: MSVOA10.i
Smp Info : ICAL,04SS408,0.005/500,04WS2168A,0.01/500
Misc Info : 04WS2204A,0.0025/500, 5PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Quant Type: ISTD
Cal Date : 23-NOV-2004 21:23
Cal File: JKN13.D
Als bottle: 13
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.823	4.808	(0.442)	39518	5.00000	4.4868
2 Chloromethane	50	5.296	5.292	(0.485)	69780	5.00000	5.1093
3 Vinyl Chloride	62	5.464	5.459	(0.500)	57902	5.00000	4.9009
4 Bromomethane	94	6.164	6.150	(0.565)	30296	5.00000	4.6757
5 Chloroethane	64	6.322	6.327	(0.579)	35123	5.00000	5.0705(M)
6 Trichlorofluoromethane	101	6.785	6.771	(0.622)	47484	5.00000	4.7472
7 Ethanol	45	6.933	6.929	(0.635)	49637	500.000	448.2732(M)
8 Freon 113	101	7.613	7.609	(0.697)	23936	5.00000	3.9708
9 Acetone	43	7.633	7.629	(0.699)	15405	5.00000	5.2590
10 1,1-Dichloroethene	96	7.643	7.639	(0.700)	28473	5.00000	4.5865
11 Isopropanol	45	7.752	7.737	(0.710)	21981	50.0000	41.9621
12 Carbon Disulfide	76	8.097	8.102	(0.742)	115959	5.00000	4.6138
13 Methylene Chloride	84	8.363	8.359	(0.766)	44529	5.00000	5.1934
14 tert-Butyl Alcohol (TBA)	59	8.373	8.359	(0.767)	28396	50.0000	42.8035
15 MTBE	73	8.748	8.753	(0.801)	102609	5.00000	4.7950
16 trans-1,2-Dichloroethene	96	8.797	8.793	(0.806)	37512	5.00000	4.8855
17 Vinyl Acetate	43	9.379	9.374	(0.859)	110421	5.00000	4.8367
18 1,1-Dichloroethane	63	9.418	9.414	(0.863)	72713	5.00000	5.1261
19 Isopropyl Ether (DIPE)	45	9.428	9.434	(0.864)	156194	5.00000	5.0542
20 Ethyl tert-Butyl Ether (ETBE)	59	9.961	9.966	(0.912)	123008	5.00000	4.9365
21 2-Butanone	43	10.197	10.193	(0.934)	21218	5.00000	4.4998
22 cis-1,2-Dichloroethene	96	10.266	10.262	(0.940)	43101	5.00000	5.0951

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.296	10.301	(0.943)	42236	5.00000	4.8353
24 Bromochloromethane	128	10.631	10.627	(0.974)	21527	5.00000	5.0430
25 Chloroform	83	10.700	10.696	(0.980)	65640	5.00000	5.0119
26 Tetrahydrofuran	42	10.710	10.706	(0.981)	122789	50.0000	45.1762
* 27 Pentafluorobenzene	168	10.917	10.923	(1.000)	1510801	50.0000	
$ 28 Dibromofluoromethane	113	10.937	10.933	(1.002)	886049	50.0000	50.3396
29 1,1,1-Trichloroethane	97	11.075	11.071	(1.014)	42813	5.00000	4.6911
30 1,1-Dichloropropene	75	11.302	11.307	(0.935)	46010	5.00000	4.5419
31 Carbon Tetrachloride	117	11.351	11.347	(0.939)	32308	5.00000	4.3741
$ 32 1,2-Dichloroethane-d4	65	11.479	11.475	(0.949)	860196	50.0000	49.6726
33 1,2-Dichloroethane	62	11.598	11.593	(0.959)	51261	5.00000	5.0679
34 Benzene	78	11.637	11.643	(0.962)	153626	5.00000	4.9794
35 Methyl tert-Amyl Ether (TAME)	73	11.696	11.692	(0.967)	111140	5.00000	4.8195
* 36 1,4-Difluorobenzene	114	12.091	12.096	(1.000)	2360759	50.0000	
37 Trichloroethene	95	12.535	12.540	(1.037)	37864	5.00000	4.9002
38 1,2-Dichloropropane	63	12.860	12.856	(1.064)	48090	5.00000	5.0807
$ 39 Trifluorotoluene	146	12.850	12.846	(1.063)	44614	5.00000	4.3380
40 Dibromomethane	93	13.028	13.033	(1.077)	29974	5.00000	4.7525
41 Bromodichloromethane	83	13.195	13.191	(1.091)	48793	5.00000	4.9519
42 2-Chloroethylvinylether	63	13.511	13.516	(1.117)	28688	5.00000	4.6190
43 cis-1,3-Dichloropropene	75	13.797	13.793	(1.141)	65754	5.00000	4.9870
44 Tetramethyl THF	43	13.876	13.871	(1.148)	86609	5.00000	4.7065
45 4-Methyl-2-Pentanone	43	13.925	13.921	(1.152)	50928	5.00000	4.3303
$ 46 Toluene-d8	98	14.201	14.207	(1.175)	2356178	50.0000	49.9505
47 Toluene	92	14.300	14.295	(1.183)	86799	5.00000	4.9633
48 trans-1,3-Dichloropropene	75	14.487	14.493	(1.198)	57261	5.00000	4.8503
49 1,1,2-Trichloroethane	85	14.753	14.759	(1.220)	22618	5.00000	5.3244
50 1,3-Dichloropropane	76	14.990	14.986	(0.934)	62801	5.00000	4.9979
51 2-Hexanone	43	15.000	14.996	(0.935)	30340	5.00000	4.4671
52 Tetrachloroethene	166	15.039	15.035	(0.937)	31520	5.00000	4.5393
53 Dibromochloromethane	129	15.306	15.311	(0.954)	38404	5.00000	4.8992
54 1,2-Dibromoethane	107	15.503	15.499	(1.282)	40903	5.00000	4.8471
* 55 Chlorobenzene-d5	117	16.045	16.051	(1.000)	1912877	50.0000	
56 Chlorobenzene	112	16.085	16.080	(1.002)	97400	5.00000	5.0093
57 1,1,1,2-Tetrachloroethane	131	16.154	16.149	(1.007)	31476	5.00000	4.8298
58 Ethylbenzene	91	16.174	16.169	(1.008)	156580	5.00000	4.8873
59 m,p-Xylenes	106	16.302	16.297	(1.016)	108679	10.0000	9.6556
60 o-Xylene	106	16.785	16.781	(1.046)	52503	5.00000	4.8404
61 Styrene	104	16.785	16.791	(1.046)	90755	5.00000	4.9962
62 Bromoform	173	17.051	17.057	(1.063)	25310	5.00000	4.3936
63 Isopropylbenzene	105	17.189	17.185	(0.917)	126913	5.00000	4.9179
64 Cyclohexanone_	55	17.327	17.323	(0.924)	31346	50.0000	51.9456
$ 65 Bromofluorobenzene	95	17.387	17.382	(0.927)	992756	50.0000	51.2646
66 1,1,2,2-Tetrachloroethane	83	17.475	17.481	(0.932)	49409	5.00000	4.7562
67 1,2,3-Trichloropropane	110	17.564	17.560	(0.937)	10562	5.00000	4.3561
68 Bromobenzene	156	17.613	17.609	(0.940)	36722	5.00000	4.8621
69 Propylbenzene	91	17.653	17.648	(0.942)	152403	5.00000	4.9501
70 2-Chlorotoluene	91	17.801	17.796	(0.950)	107992	5.00000	5.1230
71 1,3,5-Trimethylbenzene	105	17.820	17.816	(0.951)	84083	5.00000	4.7966
72 4-Chlorotoluene	91	17.919	17.915	(0.956)	97473	5.00000	5.1090
73 tert-Butylbenzene	119	18.225	18.230	(0.972)	76100	5.00000	4.8486
74 1,2,4-Trimethylbenzene	105	18.274	18.270	(0.975)	82829	5.00000	5.0540
75 sec-Butylbenzene	105	18.481	18.477	(0.986)	108860	5.00000	4.6027
76 para-Isopropyl Toluene	119	18.619	18.615	(0.993)	77654	5.00000	4.6533

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN13.D
Report Date: 24-Nov-2004 16:00

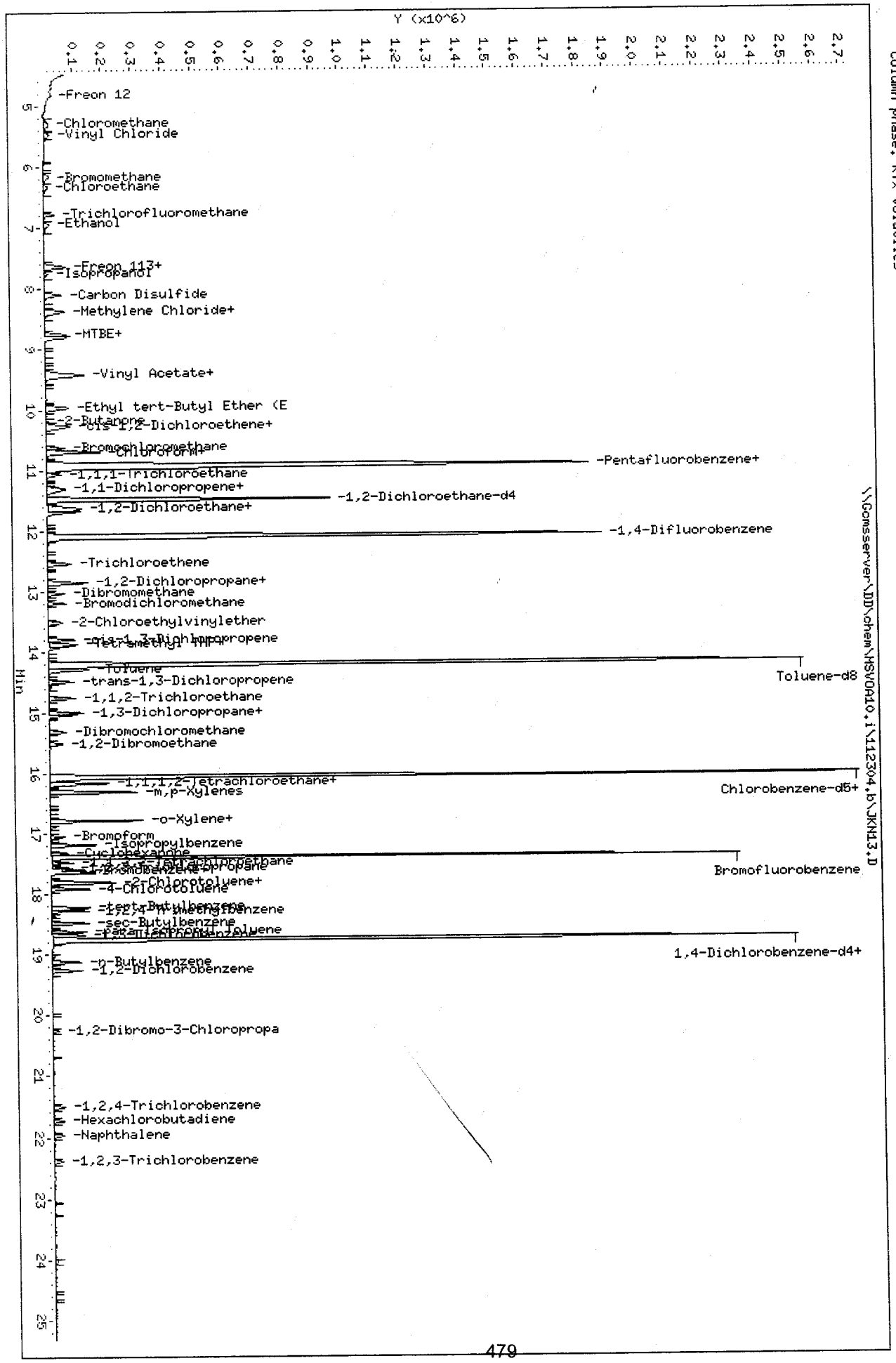
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.688	18.684	(0.997)	60723	5.00000	5.1209
* 78 1,4-Dichlorobenzene-d4	152	18.747	18.753	(1.000)	819465	50.0000	
79 1,4-Dichlorobenzene	146	18.777	18.783	(1.002)	61931	5.00000	4.9925
80 n-Butylbenzene	91	19.122	19.118	(1.020)	72812	5.00000	4.6084
81 1,2-Dichlorobenzene	146	19.260	19.266	(1.027)	57211	5.00000	4.9474
82 1,2-Dibromo-3-Chloropropane	75	20.256	20.252	(1.080)	6474	5.00000	4.1350
83 1,2,4-Trichlorobenzene	180	21.519	21.514	(1.148)	19888	5.00000	4.5474
84 Hexachlorobutadiene	225	21.736	21.731	(1.159)	11593	5.00000	4.5032
85 Naphthalene	128	21.962	21.968	(1.171)	41047	5.00000	4.2213
86 1,2,3-Trichlorobenzene	180	22.386	22.382	(1.194)	17691	5.00000	4.5582

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSV0A10.i\112304.b\JKN13.D
Date : 23-NOV-2004 21:23
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.005/500,04WS2168A,0.01/500
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSV0A10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 23-NOV-2004 21:57
MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC
Inst ID: MSVOA10.i
Smp Info : ICAL,04SS408,0.002/100,04WS2168A,0.004/100
Misc Info : 04WS2204A,0.001/100, 10PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Quant Type: ISTD
Cal Date : 23-NOV-2004 21:57
Cal File: JKN14.D
Als bottle: 14
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.828	4.808	(0.442)	87227	10.0000	9.8974
2 Chloromethane	50	5.302	5.292	(0.486)	138266	10.0000	10.1174
3 Vinyl Chloride	62	5.450	5.459	(0.499)	120194	10.0000	10.1668
4 Bromomethane	94	6.140	6.150	(0.563)	68073	10.0000	10.0158
5 Chloroethane	64	6.317	6.327	(0.579)	70305	10.0000	10.1430
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	100926	10.0000	10.0835
7 Ethanol	45	6.929	6.929	(0.635)	116831	1000.00	1054.4216
8 Freon 113	101	7.609	7.609	(0.697)	57562	10.0000	9.5430
9 Acetone	43	7.629	7.629	(0.699)	31015	10.0000	10.5812
10 1,1-Dichloroethene	96	7.639	7.639	(0.700)	58730	10.0000	9.4542
11 Isopropanol	45	7.747	7.737	(0.710)	52665	100.000	100.4734
12 Carbon Disulfide	76	8.093	8.102	(0.742)	241881	10.0000	9.6178
13 Methylene Chloride	84	8.359	8.359	(0.766)	85884	10.0000	10.0101
14 tert-Butyl Alcohol (TBA)	59	8.359	8.359	(0.766)	67850	100.000	102.2094
15 MTBE	73	8.743	8.753	(0.801)	214254	10.0000	10.0057
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.806)	74260	10.0000	9.6652
17 Vinyl Acetate	43	9.375	9.374	(0.859)	217726	10.0000	9.5307(M)
18 1,1-Dichloroethane	63	9.414	9.414	(0.863)	143333	10.0000	10.0981
19 Isopropyl Ether (DIPE)	45	9.424	9.434	(0.864)	314442	10.0000	10.1683
20 Ethyl tert-Butyl Ether (ETBE)	59	9.956	9.966	(0.912)	249976	10.0000	10.0254
21 2-Butanone	43	10.193	10.193	(0.934)	48399	10.0000	10.2575
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	82244	10.0000	9.7161

b 6/24/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.292	10.301	(0.943)	84474	10.0000	9.6645
24 Bromochloromethane	128	10.627	10.627	(0.974)	43004	10.0000	10.0679
25 Chloroform	83	10.696	10.696	(0.980)	129460	10.0000	9.8785
26 Tetrahydrofuran	42	10.706	10.706	(0.981)	275573	100.000	101.3226
* 27 Pentafluorobenzene	168	10.913	10.923	(1.000)	1511779	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.002)	885114	50.0000	50.2539
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	90353	10.0000	9.8937
30 1,1-Dichloropropene	75	11.298	11.307	(0.935)	97634	10.0000	9.6447
31 Carbon Tetrachloride	117	11.347	11.347	(0.939)	69957	10.0000	9.4780
$ 32 1,2-Dichloroethane-d4	65	11.485	11.475	(0.950)	859570	50.0000	49.6709
33 1,2-Dichloroethane	62	11.593	11.593	(0.959)	100533	10.0000	9.9460
34 Benzene	78	11.633	11.643	(0.962)	302426	10.0000	9.8093
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	233927	10.0000	10.1512
* 36 1,4-Difluorobenzene	114	12.087	12.096	(1.000)	2359121	50.0000	
37 Trichloroethene	95	12.540	12.540	(1.038)	75945	10.0000	9.8354
38 1,2-Dichloropropane	63	12.856	12.856	(1.064)	92203	10.0000	9.7481
$ 39 Trifluorotoluene	146	12.846	12.846	(1.063)	97028	10.0000	9.4411
40 Dibromomethane	93	13.033	13.033	(1.078)	62267	10.0000	9.8795
41 Bromodichloromethane	83	13.191	13.191	(1.091)	96307	10.0000	9.7807
42 2-Chloroethylvinylether	63	13.517	13.516	(1.118)	63790	10.0000	10.2778
43 cis-1,3-Dichloropropene	75	13.793	13.793	(1.141)	129517	10.0000	9.8299
44 Tetramethyl THF	43	13.872	13.871	(1.148)	185225	10.0000	10.0725
45 4-Methyl-2-Pentanone	43	13.921	13.921	(1.152)	115721	10.0000	9.8464
$ 46 Toluene-d8	98	14.197	14.207	(1.175)	2326954	50.0000	49.3652
47 Toluene	92	14.296	14.295	(1.183)	170766	10.0000	9.7716
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.199)	114499	10.0000	9.7054
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.221)	42408	10.0000	9.9900
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	128408	10.0000	10.2605
51 2-Hexanone	43	14.996	14.996	(0.934)	66877	10.0000	9.8866
52 Tetrachloroethene	166	15.035	15.035	(0.937)	64971	10.0000	9.3947
53 Dibromochloromethane	129	15.311	15.311	(0.954)	78346	10.0000	10.0352
54 1,2-Dibromoethane	107	15.499	15.499	(1.282)	85219	10.0000	10.1057
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1905163	50.0000	
56 Chlorobenzene	112	16.081	16.080	(1.002)	194686	10.0000	10.0533
57 1,1,1,2-Tetrachloroethane	131	16.150	16.149	(1.006)	62084	10.0000	9.5650
58 Ethylbenzene	91	16.169	16.169	(1.007)	322024	10.0000	10.0920
59 m,p-Xylenes	106	16.298	16.297	(1.015)	221856	20.0000	19.7906
60 o-Xylene	106	16.781	16.781	(1.045)	108547	10.0000	10.0477
61 Styrene	104	16.791	16.791	(1.046)	181099	10.0000	10.0101
62 Bromoform	173	17.057	17.057	(1.063)	54487	10.0000	9.4968
63 Isopropylbenzene	105	17.185	17.185	(0.916)	265150	10.0000	10.1040
64 Cyclohexanone_	55	17.323	17.323	(0.924)	43519	100.000	70.9212
$ 65 Bromofluorobenzene	95	17.392	17.382	(0.927)	978354	50.0000	49.6823
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	108203	10.0000	10.2429
67 1,2,3-Trichloropropane	110	17.560	17.560	(0.936)	25418	10.0000	10.3092
68 Bromobenzene	156	17.609	17.609	(0.939)	77984	10.0000	10.1539
69 Propylbenzene	91	17.649	17.648	(0.941)	319572	10.0000	10.2075
70 2-Chlorotoluene	91	17.797	17.796	(0.949)	217576	10.0000	10.1503
71 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.950)	184786	10.0000	10.3665
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	198810	10.0000	10.2476
73 tert-Butylbenzene	119	18.230	18.230	(0.972)	156897	10.0000	9.8305
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	170154	10.0000	10.2101
75 sec-Butylbenzene	105	18.477	18.477	(0.985)	246240	10.0000	10.2386
76 para-Isopropyl Toluene	119	18.625	18.615	(0.993)	169631	10.0000	9.9963

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Report Date: 24-Nov-2004 16:00

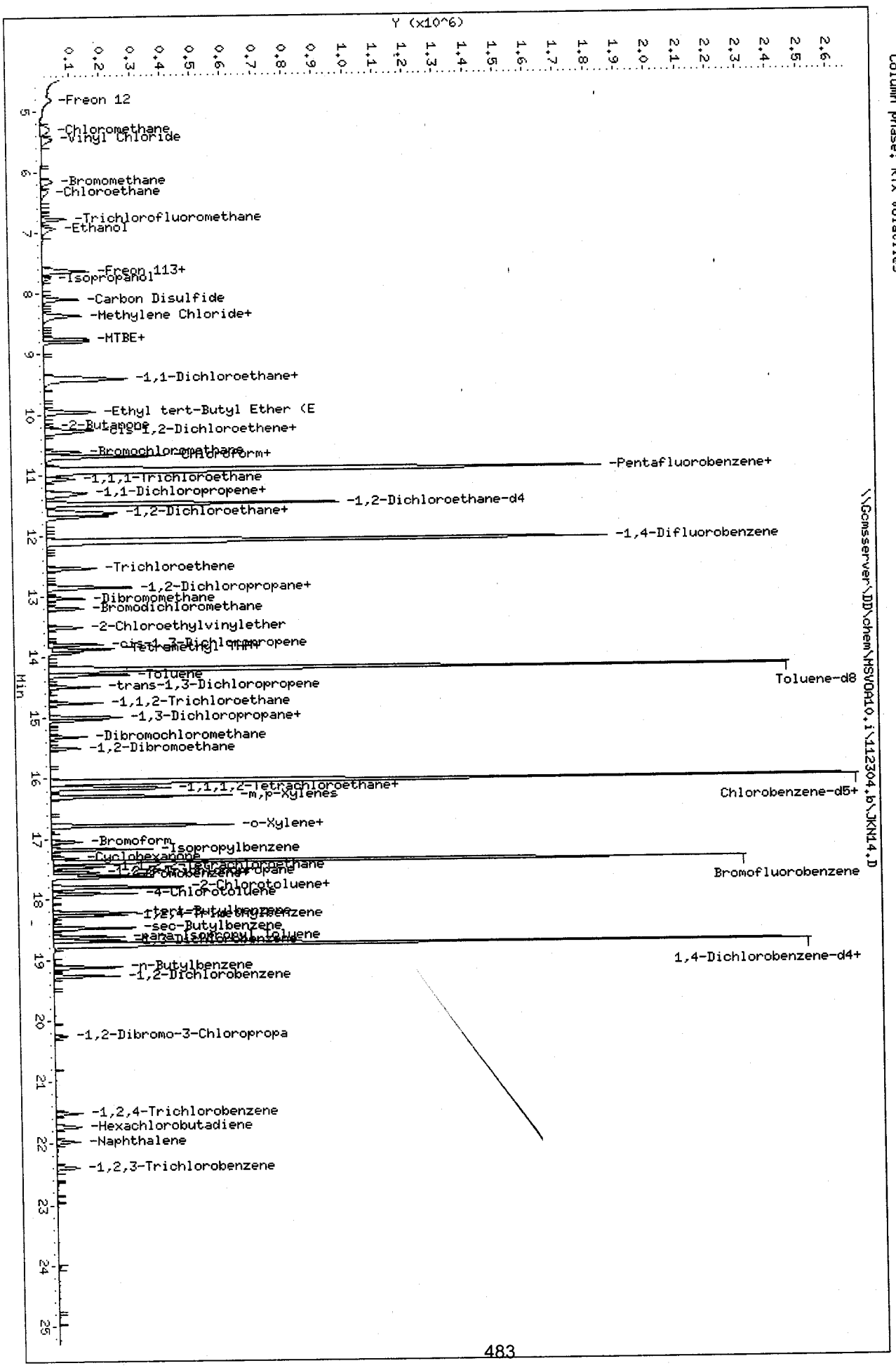
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	121507	10.0000	10.0769
* 78 1,4-Dichlorobenzene-d4	152	18.753	18.753	(1.000)	833297	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	125930	10.0000	9.9833
80 n-Butylbenzene	91	19.118	19.118	(1.019)	162030	10.0000	10.0851
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	117672	10.0000	10.0070
82 1,2-Dibromo-3-Chloropropane	75	20.252	20.252	(1.080)	15282	10.0000	9.5989
83 1,2,4-Trichlorobenzene	180	21.514	21.514	(1.147)	43262	10.0000	9.7278
84 Hexachlorobutadiene	225	21.731	21.731	(1.159)	26029	10.0000	9.9430
85 Naphthalene	128	21.968	21.968	(1.171)	98189	10.0000	9.9304
86 1,2,3-Trichlorobenzene	180	22.382	22.382	(1.194)	38928	10.0000	9.8635

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN14.D
Date : 23-NOV-2004 21:57
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.002/100,04WS2168A,0.004/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Report Date: 24-Nov-2004 16:00

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 23-NOV-2004 22:30 MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICAL,04SS408,0.004/100,04WS2168A,0.008/100
Misc Info : 04WS2204A,0.002/100, 20PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target Quant Type: ISTD
Cal Date : 23-NOV-2004 22:30 Cal File: JKN15.D
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.808	4.808	(0.440)	172794	20.0000	19.9363
2 Chloromethane	50	5.311	5.292	(0.486)	265621	20.0000	19.7636
3 Vinyl Chloride	62	5.459	5.459	(0.500)	229656	20.0000	19.7528
4 Bromomethane	94	6.150	6.150	(0.563)	137382	20.0000	19.9583
5 Chloroethane	64	6.317	6.327	(0.578)	132792	20.0000	19.4806
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	186487	20.0000	18.9455
7 Ethanol	45	6.929	6.929	(0.634)	232077	2000.00	2129.7849
8 Freon 113	101	7.619	7.609	(0.698)	127255	20.0000	21.4522
9 Acetone	43	7.629	7.629	(0.698)	59676	20.0000	20.7019
10 1,1-Dichloroethene	96	7.639	7.639	(0.699)	129718	20.0000	21.2332
11 Isopropanol	45	7.747	7.737	(0.709)	115572	200.000	224.1967
12 Carbon Disulfide	76	8.092	8.102	(0.741)	502499	20.0000	20.3170
13 Methylene Chloride	84	8.359	8.359	(0.765)	170342	20.0000	20.1881
14 tert-Butyl Alcohol (TBA)	59	8.368	8.359	(0.766)	138447	200.000	212.0665
15 MTBE	73	8.743	8.753	(0.800)	429802	20.0000	20.4097
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.805)	147902	20.0000	19.5740
17 Vinyl Acetate	43	9.374	9.374	(0.858)	456539	20.0000	20.3208
18 1,1-Dichloroethane	63	9.414	9.414	(0.862)	276788	20.0000	19.8285
19 Isopropyl Ether (DIPE)	45	9.434	9.434	(0.864)	615813	20.0000	20.2491
20 Ethyl tert-Butyl Ether (ETBE)	59	9.966	9.966	(0.912)	497360	20.0000	20.2825
21 2-Butanone	43	10.193	10.193	(0.933)	95451	20.0000	20.5701
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	165726	20.0000	19.9079

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Report Date: 24-Nov-2004 16:00

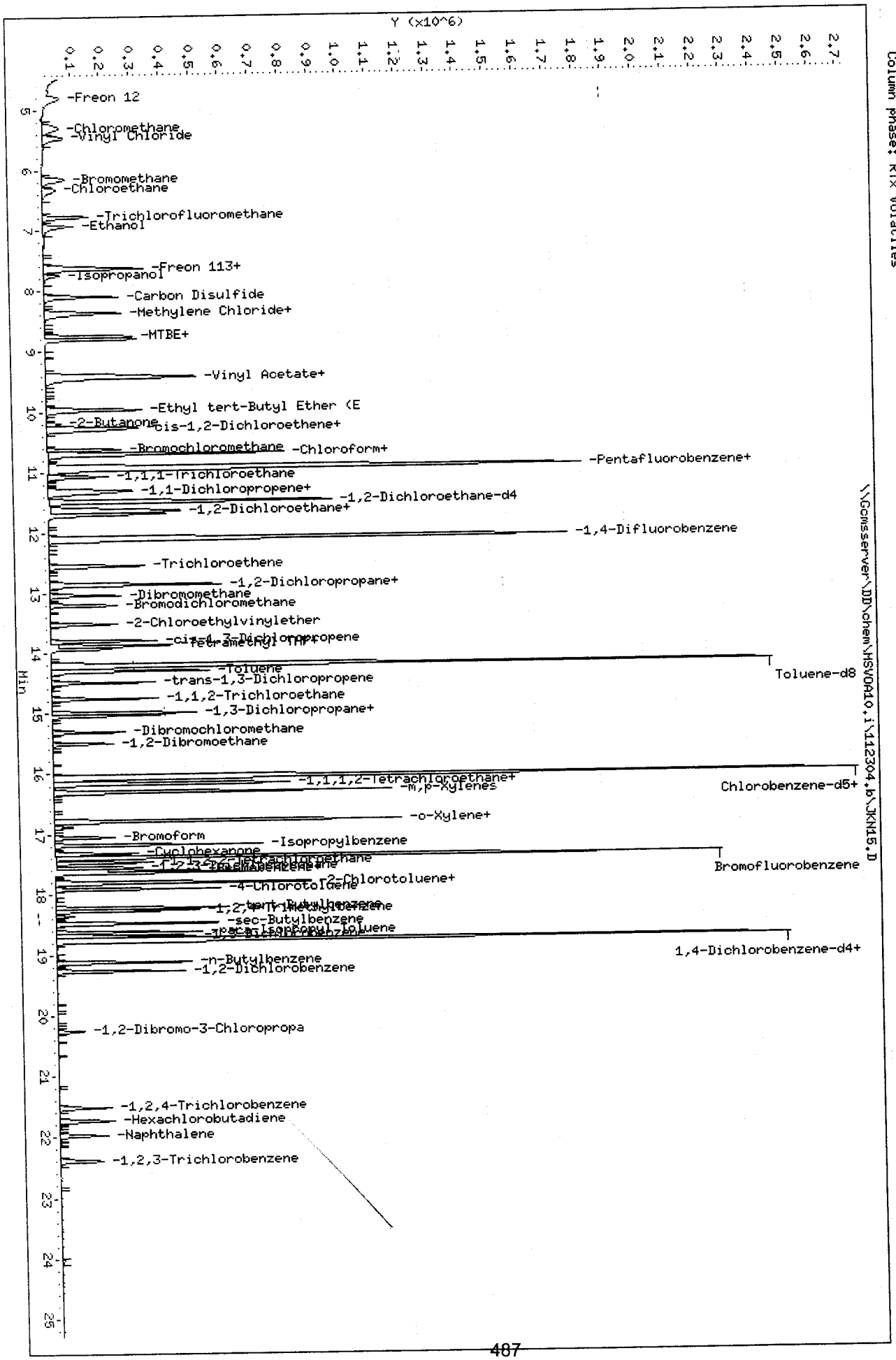
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.301	10.301	(0.943)	177525	20.0000	20.6522
24 Bromochloromethane	128	10.627	10.627	(0.973)	85916	20.0000	20.4527
25 Chloroform	83	10.696	10.696	(0.979)	254101	20.0000	19.7157
26 Tetrahydrofuran	42	10.706	10.706	(0.980)	542104	200.000	202.6748
* 27 Pentafluorobenzene	168	10.923	10.923	(1.000)	1486760	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.001)	858449	50.0000	49.5602
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	187127	20.0000	20.8354
30 1,1-Dichloropropene	75	11.297	11.307	(0.934)	205562	20.0000	20.8485
31 Carbon Tetrachloride	117	11.347	11.347	(0.938)	151896	20.0000	21.1289
$ 32 1,2-Dichloroethane-d4	65	11.485	11.475	(0.949)	840083	50.0000	49.8409
33 1,2-Dichloroethane	62	11.593	11.593	(0.958)	193847	20.0000	19.6899
34 Benzene	78	11.643	11.643	(0.962)	605690	20.0000	20.1703
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	459569	20.0000	20.4753
* 36 1,4-Difluorobenzene	114	12.096	12.096	(1.000)	2297773	50.0000	
37 Trichloroethene	95	12.540	12.540	(1.037)	151228	20.0000	20.1080
38 1,2-Dichloropropane	63	12.856	12.856	(1.063)	184018	20.0000	19.9747
$ 39 Trifluorotoluene	146	12.846	12.846	(1.062)	208142	20.0000	20.7936
40 Dibromomethane	93	13.033	13.033	(1.077)	123034	20.0000	20.0423
41 Bromodichloromethane	83	13.201	13.191	(1.091)	191786	20.0000	19.9975
42 2-Chloroethylvinylether	63	13.516	13.516	(1.117)	125437	20.0000	20.7500
43 cis-1,3-Dichloropropene	75	13.792	13.793	(1.140)	256328	20.0000	19.9738
44 Tetramethyl THF	43	13.871	13.871	(1.147)	356634	20.0000	19.9115
45 4-Methyl-2-Pentanone	43	13.931	13.921	(1.152)	238421	20.0000	20.8284
$ 46 Toluene-d8	98	14.207	14.207	(1.174)	2297073	50.0000	50.0324
47 Toluene	92	14.295	14.295	(1.182)	337863	20.0000	19.8494
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.198)	227046	20.0000	19.7592
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.220)	84027	20.0000	20.3227
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	247679	20.0000	20.2251
51 2-Hexanone	43	14.996	14.996	(0.934)	136066	20.0000	20.5562
52 Tetrachloroethene	166	15.035	15.035	(0.937)	134491	20.0000	19.8739
53 Dibromochloromethane	129	15.311	15.311	(0.954)	153255	20.0000	20.0608
54 1,2-Dibromoethane	107	15.499	15.499	(1.281)	168080	20.0000	20.4640
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1864269	50.0000	
56 Chlorobenzene	112	16.090	16.080	(1.002)	374993	20.0000	19.7890
57 1,1,1,2-Tetrachloroethane	131	16.149	16.149	(1.006)	125887	20.0000	19.8204
58 Ethylbenzene	91	16.169	16.169	(1.007)	632923	20.0000	20.2705
59 m,p-Xylenes	106	16.297	16.297	(1.015)	442003	40.0000	40.2938
60 o-Xylene	106	16.781	16.781	(1.045)	212428	20.0000	20.0950
61 Styrene	104	16.790	16.791	(1.046)	366427	20.0000	20.6984
62 Bromoform	173	17.057	17.057	(1.063)	112085	20.0000	19.9644
63 Isopropylbenzene	105	17.185	17.185	(0.916)	542147	20.0000	21.0430
64 Cyclohexanone_	55	17.323	17.323	(0.924)	143805	200.000	238.7039
$ 65 Bromofluorobenzene	95	17.392	17.382	(0.927)	967463	50.0000	50.0413
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	211114	20.0000	20.3558
67 1,2,3-Trichloropropane	110	17.560	17.560	(0.936)	48531	20.0000	20.0490
68 Bromobenzene	156	17.609	17.609	(0.939)	153806	20.0000	20.3981
69 Propylbenzene	91	17.648	17.648	(0.941)	645795	20.0000	21.0105
70 2-Chlorotoluene	91	17.806	17.796	(0.950)	430764	20.0000	20.4690
71 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.950)	358596	20.0000	20.4907
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	383108	20.0000	20.1138
73 tert-Butylbenzene	119	18.230	18.230	(0.972)	321352	20.0000	20.5084
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	340362	20.0000	20.8027
75 sec-Butylbenzene	105	18.487	18.477	(0.986)	510024	20.0000	21.6004
76 para-Isopropyl Toluene	119	18.625	18.615	(0.993)	345539	20.0000	20.7406

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Report Date: 24-Nov-2004 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	240401	20.0000	20.3072
* 78 1,4-Dichlorobenzene-d4	152	18.753	18.753	(1.000)	818110	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	249056	20.0000	20.1109
80 n-Butylbenzene	91	19.118	19.118	(1.019)	331192	20.0000	20.9968
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	232858	20.0000	20.1703
82 1,2-Dibromo-3-Chloropropane	75	20.252	20.252	(1.080)	31705	20.0000	20.2841
83 1,2,4-Trichlorobenzene	180	21.514	21.514	(1.147)	87296	20.0000	19.9936
84 Hexachlorobutadiene	225	21.731	21.731	(1.159)	55628	20.0000	21.6443
85 Naphthalene	128	21.968	21.968	(1.171)	199712	20.0000	20.5729
86 1,2,3-Trichlorobenzene	180	22.392	22.382	(1.194)	78491	20.0000	20.2572

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN15.D
Date : 23-NOV-2004 22:30
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.004/100,04WS21688,0.008/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
Report Date: 24-Nov-2004 16:01

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
Lab Smp Id:
Client Smp ID: DYNA P&T
Inj Date : 23-NOV-2004 23:04
MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC
Inst ID: MSVOA10.i
Smp Info : ICAL,04SS408,0.01/100,04WS2168A,0.02/100
Misc Info : 04WS2204A,0.005/100, 50PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Quant Type: ISTD
Cal Date : 23-NOV-2004 23:04
Cal File: JKN16.D
Als bottle: 16
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.824	4.808	(0.442)	519408	50.0000	57.0868
2 Chloromethane	50	5.298	5.292	(0.486)	724067	50.0000	51.3208
3 Vinyl Chloride	62	5.475	5.459	(0.502)	650134	50.0000	53.2676
4 Bromomethane	94	6.156	6.150	(0.564)	392983	50.0000	51.6114
5 Chloroethane	64	6.314	6.327	(0.579)	368075	50.0000	51.4371
6 Trichlorofluoromethane	101	6.767	6.771	(0.620)	566727	50.0000	54.8456
7 Ethanol	45	6.925	6.929	(0.635)	595799	5000.00	5208.5094
8 Freon 113	101	7.605	7.609	(0.697)	341565	50.0000	54.8506
9 Acetone	43	7.625	7.629	(0.699)	152287	50.0000	50.3251
10 1,1-Dichloroethene	96	7.645	7.639	(0.701)	336880	50.0000	52.5293
11 Isopropanol	45	7.743	7.737	(0.710)	276218	500.000	510.4328
12 Carbon Disulfide	76	8.089	8.102	(0.741)	1321071	50.0000	50.8816
13 Methylene Chloride	84	8.355	8.359	(0.766)	439979	50.0000	49.6726
14 tert-Butyl Alcohol (TBA)	59	8.365	8.359	(0.767)	373134	500.000	544.4568
15 MTBE	73	8.740	8.753	(0.801)	1134665	50.0000	51.3271
16 trans-1,2-Dichloroethene	96	8.789	8.793	(0.806)	394082	50.0000	49.6824
17 Vinyl Acetate	43	9.371	9.374	(0.859)	1217523	50.0000	51.6240(M)
18 1,1-Dichloroethane	63	9.410	9.414	(0.863)	725249	50.0000	49.4925
19 Isopropyl Ether (DIPE)	45	9.420	9.434	(0.864)	1586150	50.0000	49.6834
20 Ethyl tert-Butyl Ether (ETBE)	59	9.962	9.966	(0.913)	1309399	50.0000	50.8668
21 2-Butanone	43	10.189	10.193	(0.934)	251668	50.0000	51.6647
22 cis-1,2-Dichloroethene	96	10.258	10.262	(0.940)	436031	50.0000	49.8957

b 11/24/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
Report Date: 24-Nov-2004 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.298	10.301	(0.944)	464791	50.0000	51.5080
24 Bromochloromethane	128	10.633	10.627	(0.975)	234370	50.0000	53.1484
25 Chloroform	83	10.692	10.696	(0.980)	666575	50.0000	49.2680
26 Tetrahydrofuran	42	10.702	10.706	(0.981)	1430518	500.000	509.4723
* 27 Pentafluorobenzene	168	10.909	10.923	(1.000)	1560741	50.0000	
$ 28 Dibromofluoromethane	113	10.929	10.933	(1.002)	910724	50.0000	50.0859
29 1,1,1-Trichloroethane	97	11.067	11.071	(1.014)	491150	50.0000	52.0943
30 1,1-Dichloropropene	75	11.304	11.307	(0.935)	536848	50.0000	51.9821
31 Carbon Tetrachloride	117	11.343	11.347	(0.938)	407393	50.0000	54.1021
$ 32 1,2-Dichloroethane-d4	65	11.481	11.475	(0.949)	896477	50.0000	50.7777
33 1,2-Dichloroethane	62	11.599	11.593	(0.959)	518641	50.0000	50.2947
34 Benzene	78	11.639	11.643	(0.962)	1562034	50.0000	49.6618
35 Methyl tert-Amyl Ether (TAME)	73	11.688	11.692	(0.967)	1223755	50.0000	52.0529
* 36 1,4-Difluorobenzene	114	12.093	12.096	(1.000)	2406782	50.0000	
37 Trichloroethene	95	12.536	12.540	(1.037)	402829	50.0000	51.1361
38 1,2-Dichloropropane	63	12.862	12.856	(1.064)	486419	50.0000	50.4083
$ 39 Trifluorotoluene	146	12.842	12.846	(1.062)	566749	50.0000	54.0544
40 Dibromomethane	93	13.029	13.033	(1.077)	330629	50.0000	51.4202
41 Bromodichloromethane	83	13.197	13.191	(1.091)	523033	50.0000	52.0665
42 2-Chloroethylvinylether	63	13.513	13.516	(1.117)	348723	50.0000	55.0736
43 cis-1,3-Dichloropropene	75	13.789	13.793	(1.140)	677027	50.0000	50.3665
44 Tetramethyl THF	43	13.868	13.871	(1.147)	938686	50.0000	50.0347
45 4-Methyl-2-Pentanone	43	13.927	13.921	(1.152)	662976	50.0000	55.2942
$ 46 Toluene-d8	98	14.203	14.207	(1.175)	2411075	50.0000	50.1369
47 Toluene	92	14.292	14.295	(1.182)	893053	50.0000	50.0904
48 trans-1,3-Dichloropropene	75	14.489	14.493	(1.198)	610596	50.0000	50.7318
49 1,1,2-Trichloroethane	85	14.755	14.759	(1.220)	224632	50.0000	51.8686
50 1,3-Dichloropropane	76	14.992	14.986	(0.934)	655788	50.0000	50.8091
51 2-Hexanone	43	14.992	14.996	(0.934)	368862	50.0000	52.8730
52 Tetrachloroethene	166	15.031	15.035	(0.937)	360875	50.0000	50.5969
53 Dibromochloromethane	129	15.308	15.311	(0.954)	422090	50.0000	52.4222
54 1,2-Dibromoethane	107	15.495	15.499	(1.281)	450803	50.0000	52.4002
* 55 Chlorobenzene-d5	117	16.047	16.051	(1.000)	1964862	50.0000	
56 Chlorobenzene	112	16.087	16.080	(1.002)	995841	50.0000	49.8618
57 1,1,1,2-Tetrachloroethane	131	16.146	16.149	(1.006)	346153	50.0000	51.7102
58 Ethylbenzene	91	16.165	16.169	(1.007)	1656387	50.0000	50.3330
59 m,p-Xylenes	106	16.304	16.297	(1.016)	1178036	100.000	101.8939
60 o-Xylene	106	16.787	16.781	(1.046)	572660	50.0000	51.3984
61 Styrene	104	16.787	16.791	(1.046)	986358	50.0000	52.8640
62 Bromoform	173	17.053	17.057	(1.063)	307662	50.0000	51.9947
63 Isopropylbenzene	105	17.181	17.185	(0.916)	1403607	50.0000	50.8602
64 Cyclohexanone_	55	17.319	17.323	(0.924)	358660	500.000	555.7878
$ 65 Bromofluorobenzene	95	17.388	17.382	(0.927)	1025841	50.0000	49.5353
66 1,1,2,2-Tetrachloroethane	83	17.477	17.481	(0.932)	574472	50.0000	51.7109
67 1,2,3-Trichloropropane	110	17.566	17.560	(0.937)	131909	50.0000	50.8731
68 Bromobenzene	156	17.615	17.609	(0.940)	416181	50.0000	51.5277
69 Propylbenzene	91	17.645	17.648	(0.941)	1687989	50.0000	51.2687
70 2-Chlorotoluene	91	17.803	17.796	(0.950)	1149801	50.0000	51.0059
71 1,3,5-Trimethylbenzene	105	17.822	17.816	(0.951)	982269	50.0000	52.3989
72 4-Chlorotoluene	91	17.911	17.915	(0.955)	1043261	50.0000	51.1336
73 tert-Butylbenzene	119	18.227	18.230	(0.972)	885542	50.0000	52.7597
74 1,2,4-Trimethylbenzene	105	18.276	18.270	(0.975)	900467	50.0000	51.3792
75 sec-Butylbenzene	105	18.483	18.477	(0.986)	1328383	50.0000	52.5213
76 para-Isopropyl Toluene	119	18.621	18.615	(0.993)	929418	50.0000	52.0806

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
Report Date: 24-Nov-2004 16:01

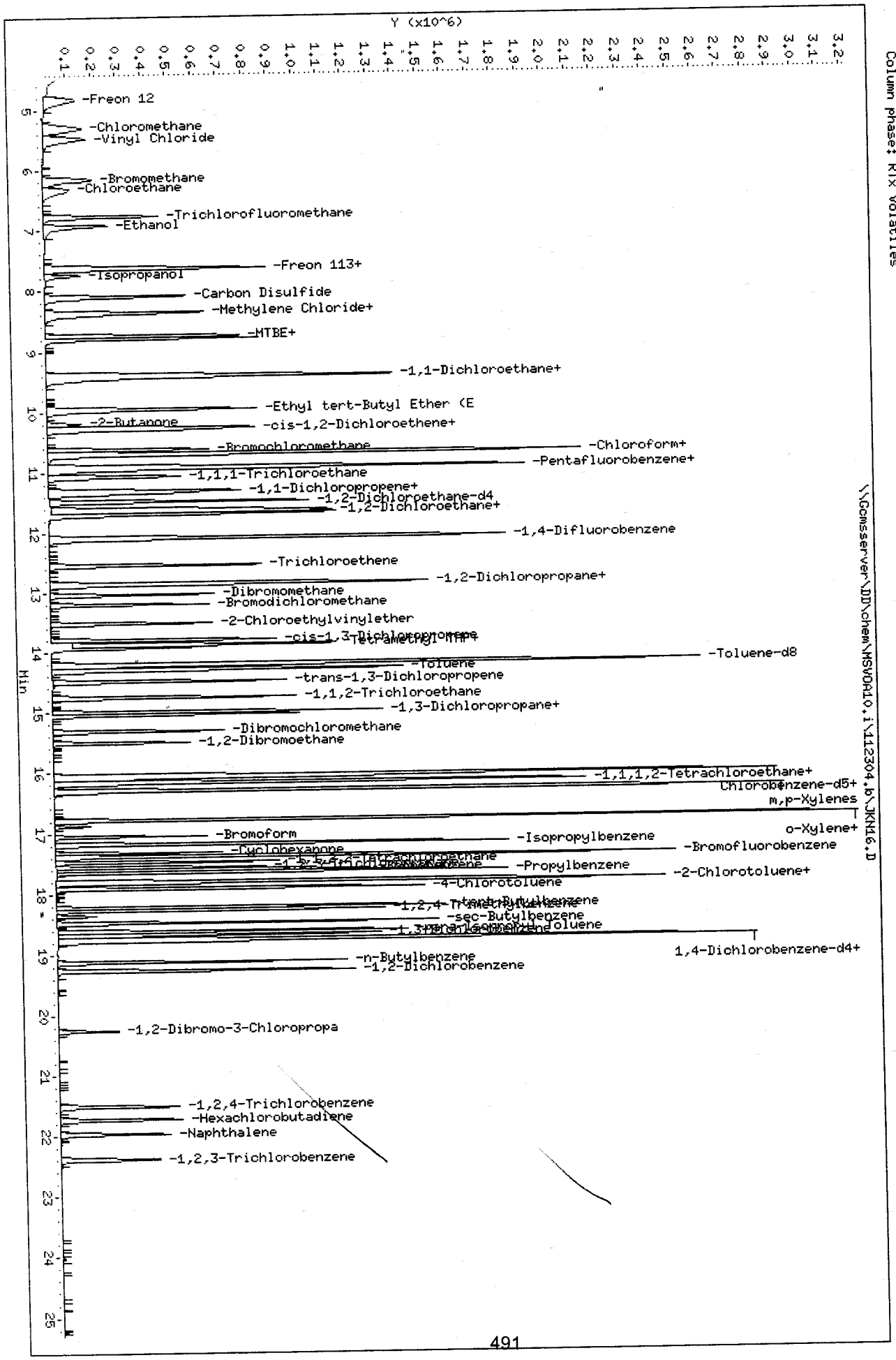
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.680	18.684	(0.996)	648485	50.0000	51.1394
* 78 1,4-Dichlorobenzene-d4	152	18.749	18.753	(1.000)	876337	50.0000	
79 1,4-Dichlorobenzene	146	18.779	18.783	(1.002)	657413	50.0000	49.5580
80 n-Butylbenzene	91	19.114	19.118	(1.019)	870614	50.0000	51.5276
81 1,2-Dichlorobenzene	146	19.262	19.266	(1.027)	620638	50.0000	50.1880
82 1,2-Dibromo-3-Chloropropane	75	20.258	20.252	(1.080)	86154	50.0000	51.4571
83 1,2,4-Trichlorobenzene	180	21.511	21.514	(1.147)	230636	50.0000	49.3134
84 Hexachlorobutadiene	225	21.728	21.731	(1.159)	144462	50.0000	52.4740
85 Naphthalene	128	21.964	21.968	(1.171)	548619	50.0000	52.7599
86 1,2,3-Trichlorobenzene	180	22.388	22.382	(1.194)	216739	50.0000	52.2201

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN16.D
Date : 23-NOV-2004 23:04
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.01/100,04WS2168A,0.02/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Report Date: 24-Nov-2004 16:01

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Lab Smp Id:
Inj Date : 23-NOV-2004 23:38
Operator : VOC
Smp Info : ICAL,04SS408,0.015/100,04WS2168A,0.03/100
Misc Info : 04WS2204A,0.0075/100, 75PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Cal Date : 23-NOV-2004 23:38
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 22-SEP-2004 10:51
Inst ID: MSVOA10.i

Quant Type: ISTD
Cal File: JKN17.D
Calibration Sample, Level: 4

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.809	4.808	(0.441)	722103	75.0000	77.7993
2 Chloromethane	50	5.272	5.292	(0.483)	1028528	75.0000	71.4628
3 Vinyl Chloride	62	5.460	5.459	(0.500)	921569	75.0000	74.0180
4 Bromomethane	94	6.140	6.150	(0.563)	588075	75.0000	73.1833
5 Chloroethane	64	6.318	6.327	(0.579)	537259	75.0000	73.5992
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	805765	75.0000	76.4408
7 Ethanol	45	6.929	6.929	(0.635)	937393	7500.00	8033.1232
8 Freon 113	101	7.610	7.609	(0.697)	514454	75.0000	80.9849
9 Acetone	43	7.629	7.629	(0.699)	209708	75.0000	67.9338
10 1,1-Dichloroethene	96	7.639	7.639	(0.700)	517046	75.0000	79.0323
11 Isopropanol	45	7.748	7.737	(0.710)	397812	750.000	720.6320
12 Carbon Disulfide	76	8.103	8.102	(0.742)	1965918	75.0000	74.2248
13 Methylene Chloride	84	8.359	8.359	(0.766)	651799	75.0000	72.1354
14 tert-Butyl Alcohol (TBA)	59	8.359	8.359	(0.766)	539063	750.000	771.0583
15 MTBE	73	8.744	8.753	(0.801)	1648233	75.0000	73.0882
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.806)	597835	75.0000	73.8833
17 Vinyl Acetate	43	9.375	9.374	(0.859)	1700810	75.0000	70.6934(M)
18 1,1-Dichloroethane	63	9.414	9.414	(0.863)	1081821	75.0000	72.3697
19 Isopropyl Ether (DIPE)	45	9.424	9.434	(0.864)	2357448	75.0000	72.3867
20 Ethyl tert-Butyl Ether (ETBE)	59	9.967	9.966	(0.913)	1955524	75.0000	74.4688
21 2-Butanone	43	10.193	10.193	(0.934)	365570	75.0000	73.5674
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	656996	75.0000	73.6984

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Report Date: 24-Nov-2004 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.302	10.301	(0.944)	696883	75.0000	75.7052
24 Bromochloromethane	128	10.627	10.627	(0.974)	348940	75.0000	77.5690
25 Chloroform	83	10.696	10.696	(0.980)	1004664	75.0000	72.7923
26 Tetrahydrofuran	42	10.706	10.706	(0.981)	1971723	750.000	688.3704
* 27 Pentafluorobenzene	168	10.913	10.923	(1.000)	1592142	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.002)	924538	50.0000	49.8428
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	745760	75.0000	77.5398
30 1,1-Dichloropropene	75	11.308	11.307	(0.936)	813850	75.0000	77.6541
31 Carbon Tetrachloride	117	11.347	11.347	(0.939)	615583	75.0000	80.5572
$ 32 1,2-Dichloroethane-d4	65	11.485	11.475	(0.950)	891097	50.0000	49.7366
33 1,2-Dichloroethane	62	11.594	11.593	(0.959)	767689	75.0000	73.3598
34 Benzene	78	11.633	11.643	(0.962)	2337285	75.0000	73.2253
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	1796190	75.0000	75.2869
* 36 1,4-Difluorobenzene	114	12.087	12.096	(1.000)	2442417	50.0000	
37 Trichloroethene	95	12.541	12.540	(1.038)	601168	75.0000	75.2003
38 1,2-Dichloropropane	63	12.856	12.856	(1.064)	714902	75.0000	73.0054
$ 39 Trifluorotoluene	146	12.846	12.846	(1.063)	858667	75.0000	80.7016
40 Dibromomethane	93	13.034	13.033	(1.078)	499464	75.0000	76.5445
41 Bromodichloromethane	83	13.191	13.191	(1.091)	775021	75.0000	76.0255
42 2-Chloroethylvinylether	63	13.517	13.516	(1.118)	490149	75.0000	76.2795
43 cis-1,3-Dichloropropene	75	13.793	13.793	(1.141)	1010671	75.0000	74.0905
44 Tetramethyl THF	43	13.872	13.871	(1.148)	1368291	75.0000	71.8699
45 4-Methyl-2-Pentanone	43	13.921	13.921	(1.152)	884486	75.0000	72.6926
$ 46 Toluene-d8	98	14.197	14.207	(1.175)	2428754	50.0000	49.7677
47 Toluene	92	14.296	14.295	(1.183)	1336769	75.0000	73.8841
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.199)	899713	75.0000	73.6626
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.221)	331501	75.0000	75.4284
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	965924	75.0000	73.9547
51 2-Hexanone	43	14.996	14.996	(0.934)	505421	75.0000	71.5926
52 Tetrachloroethene	166	15.036	15.035	(0.937)	558556	75.0000	77.3888
53 Dibromochloromethane	129	15.312	15.311	(0.954)	634126	75.0000	77.8271
54 1,2-Dibromoethane	107	15.499	15.499	(1.282)	662390	75.0000	75.8712
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1988325	50.0000	
56 Chlorobenzene	112	16.081	16.080	(1.002)	1471928	75.0000	72.8298
57 1,1,1,2-Tetrachloroethane	131	16.150	16.149	(1.006)	519526	75.0000	76.6937
58 Ethylbenzene	91	16.170	16.169	(1.007)	2431621	75.0000	73.0183
59 m,p-Xylenes	106	16.298	16.297	(1.015)	1767402	150.000	151.0670
60 o-Xylene	106	16.781	16.781	(1.045)	863095	75.0000	76.5519
61 Styrene	104	16.791	16.791	(1.046)	1473273	75.0000	78.0286
62 Bromoform	173	17.057	17.057	(1.063)	456869	75.0000	76.2995
63 Isopropylbenzene	105	17.185	17.185	(0.916)	2043917	75.0000	72.8238
64 Cyclohexanone_	55	17.324	17.323	(0.924)	513675	750.000	782.6939
$ 65 Bromofluorobenzene	95	17.383	17.382	(0.927)	1042904	50.0000	49.5172
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	819085	75.0000	72.4969
67 1,2,3-Trichloropropane	110	17.570	17.560	(0.937)	190256	75.0000	72.1490
68 Bromobenzene	156	17.610	17.609	(0.939)	625101	75.0000	76.1003
69 Propylbenzene	91	17.649	17.648	(0.941)	2455612	75.0000	73.3364
70 2-Chlorotoluene	91	17.797	17.796	(0.949)	1693144	75.0000	73.8532
71 1,3,5-Trimethylbenzene	105	17.817	17.816	(0.950)	1433181	75.0000	75.1745
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	1529883	75.0000	73.7308
73 tert-Butylbenzene	119	18.231	18.230	(0.972)	1263729	75.0000	74.0328
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	1332710	75.0000	74.7710
75 sec-Butylbenzene	105	18.477	18.477	(0.985)	1956606	75.0000	76.0664
76 para-Isopropyl Toluene	119	18.625	18.615	(0.993)	1381679	75.0000	76.1289

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Report Date: 24-Nov-2004 16:01

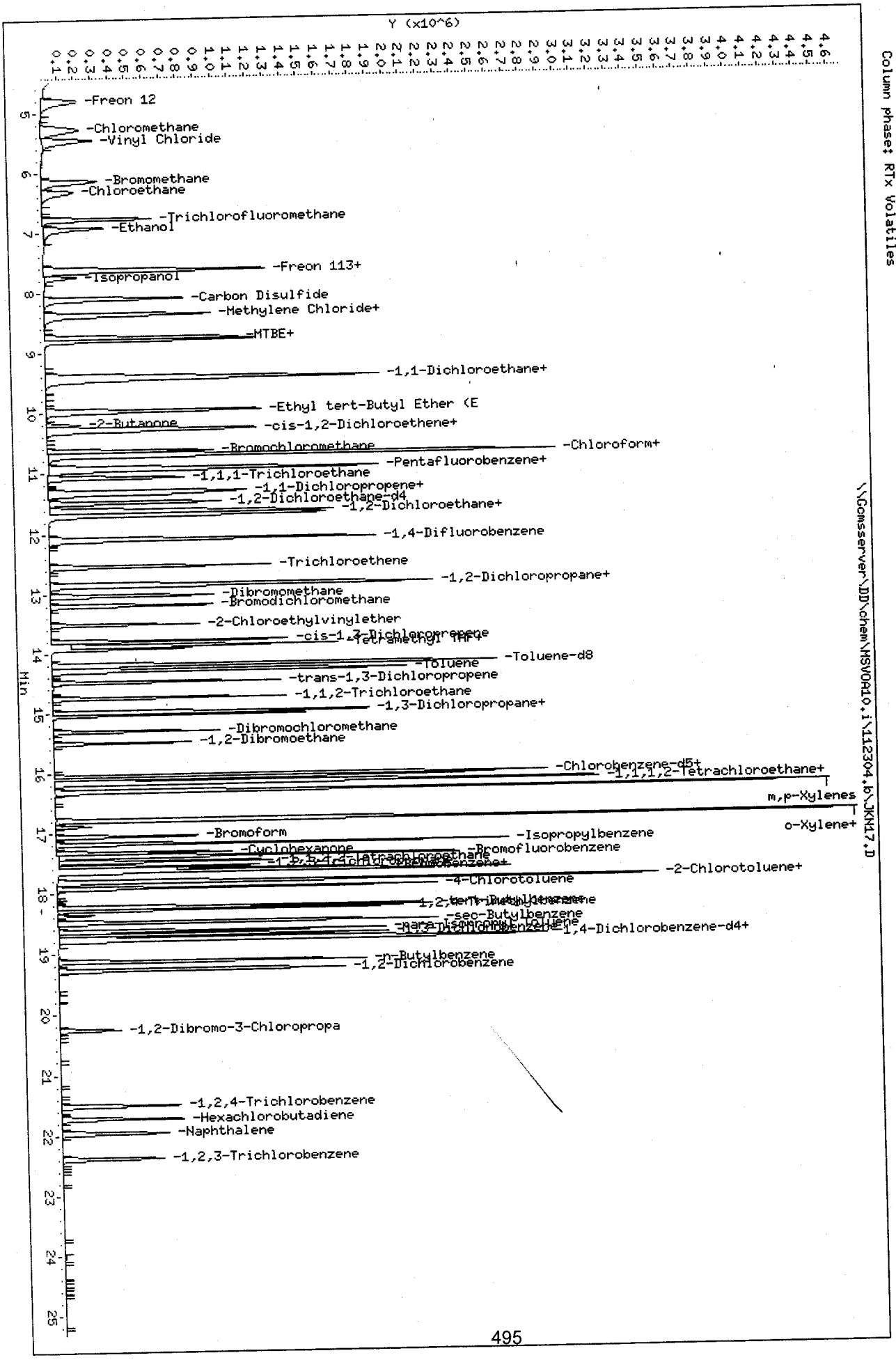
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	973386	75.0000	75.4776
* 78 1,4-Dichlorobenzene-d4	152	18.754	18.753	(1.000)	891238	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	997826	75.0000	73.9619
80 n-Butylbenzene	91	19.118	19.118	(1.019)	1285805	75.0000	74.8286
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	927518	75.0000	73.7499
82 1,2-Dibromo-3-Chloropropane	75	20.253	20.252	(1.080)	122801	75.0000	72.1189
83 1,2,4-Trichlorobenzene	180	21.515	21.514	(1.147)	344105	75.0000	72.3447
84 Hexachlorobutadiene	225	21.732	21.731	(1.159)	218975	75.0000	78.2101
85 Naphthalene	128	21.968	21.968	(1.171)	782059	75.0000	73.9520
86 1,2,3-Trichlorobenzene	180	22.383	22.382	(1.194)	312801	75.0000	74.1048

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN17.D
Date : 23-NOV-2004 23:38
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.015/100,04WS2168A,0.03/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Report Date: 24-Nov-2004 16:01

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Lab Smp Id:
Inj Date : 24-NOV-2004 00:11
Operator : VOC
Smp Info : ICAL,04SS408,0.02/100,04WS2168A,0.04/100
Misc Info : 04WS2204A,0.01/100, 100PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target
Cal Date : 24-NOV-2004 00:11
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Client Smp ID: DYNA P&T
MS Autotune Date: 22-SEP-2004 10:51
Inst ID: MSVOA10.i
Quant Type: ISTD
Cal File: JKN18.D
Calibration Sample, Level: 5
Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.808	4.808	(0.440)	977149	100.000	106.3503
2 Chloromethane	50	5.292	5.292	(0.484)	1333251	100.000	93.5787
3 Vinyl Chloride	62	5.459	5.459	(0.500)	1220299	100.000	99.0096
4 Bromomethane	94	6.150	6.150	(0.563)	838254	100.000	100.5165
5 Chloroethane	64	6.327	6.327	(0.579)	714497	100.000	98.8761
6 Trichlorofluoromethane	101	6.771	6.771	(0.620)	1086271	100.000	104.1014
7 Ethanol	45	6.929	6.929	(0.634)	1315330	10000.0	11386.7237
8 Freon 113	101	7.609	7.609	(0.697)	678969	100.000	107.9714
9 Acetone	43	7.629	7.629	(0.698)	288065	100.000	94.2677
10 1,1-Dichloroethene	96	7.639	7.639	(0.699)	687030	100.000	106.0847
11 Isopropanol	45	7.737	7.737	(0.708)	575609	1000.00	1053.3304
12 Carbon Disulfide	76	8.102	8.102	(0.742)	2586868	100.000	98.6642
13 Methylene Chloride	84	8.359	8.359	(0.765)	890562	100.000	99.5635
14 tert-Butyl Alcohol (TBA)	59	8.359	8.359	(0.765)	783560	1000.00	1132.1951
15 MTBE	73	8.753	8.753	(0.801)	2236100	100.000	100.1662
16 trans-1,2-Dichloroethene	96	8.793	8.793	(0.805)	800445	100.000	99.9305
17 Vinyl Acetate	43	9.374	9.374	(0.858)	2256187	100.000	94.7327
18 1,1-Dichloroethane	63	9.414	9.414	(0.862)	1442535	100.000	97.4831
19 Isopropyl Ether (DIPE)	45	9.434	9.434	(0.864)	3116732	100.000	96.6757
20 Ethyl tert-Butyl Ether (ETBE)	59	9.966	9.966	(0.912)	2599759	100.000	100.0105
21 2-Butanone	43	10.193	10.193	(0.933)	507443	100.000	103.1581
22 cis-1,2-Dichloroethene	96	10.262	10.262	(0.940)	875594	100.000	99.2200

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Report Date: 24-Nov-2004 16:01

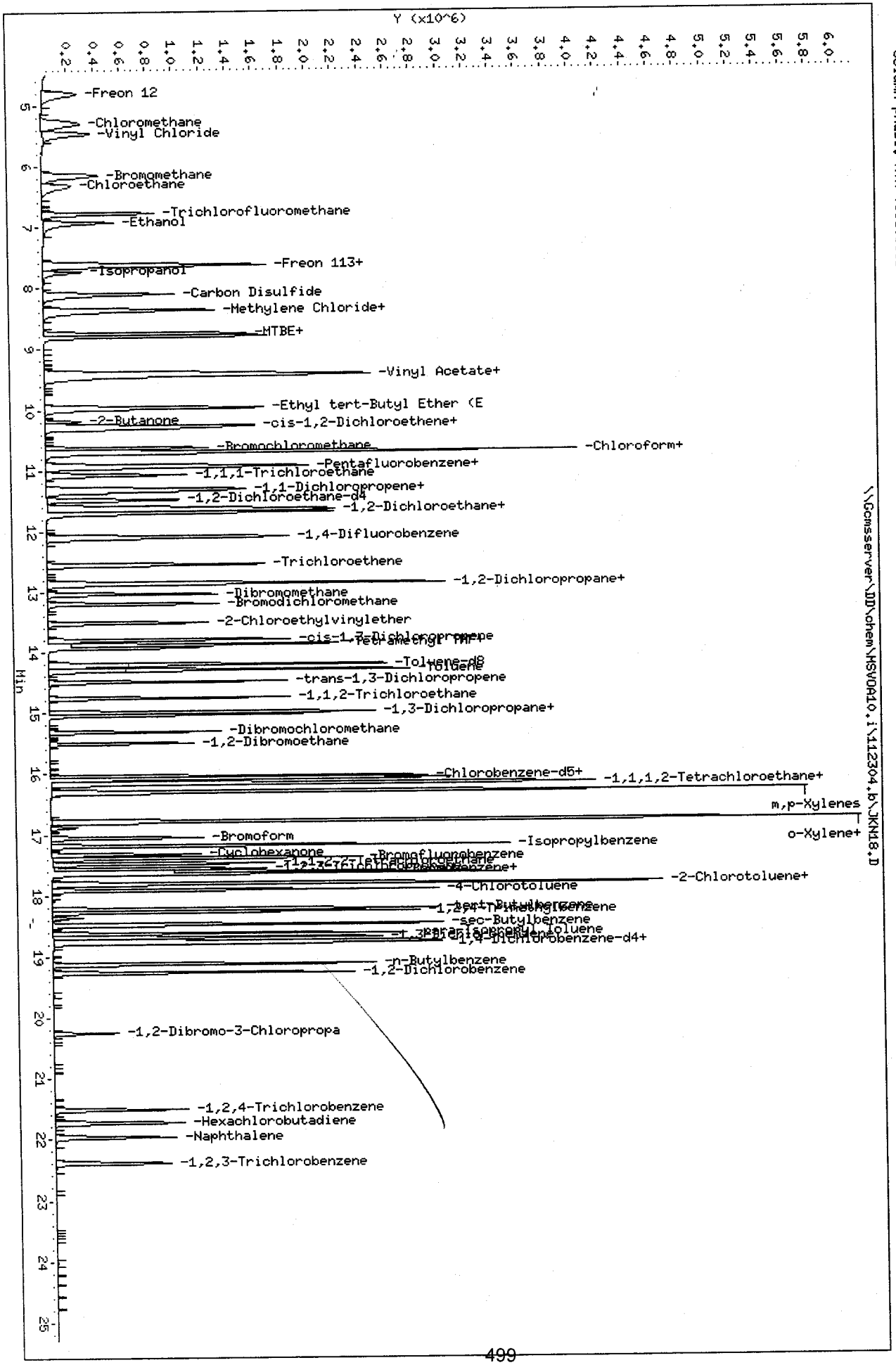
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 2,2-Dichloropropane	77	10.301	10.301	(0.943)	923116	100.000	101.3033
24 Bromochloromethane	128	10.627	10.627	(0.973)	472243	100.000	106.0484
25 Chloroform	83	10.696	10.696	(0.979)	1316840	100.000	96.3827
26 Tetrahydrofuran	42	10.706	10.706	(0.980)	2675650	1000.00	943.6413
* 27 Pentafluorobenzene	168	10.923	10.923	(1.000)	1576088	50.0000	
$ 28 Dibromofluoromethane	113	10.933	10.933	(1.001)	916771	50.0000	49.9275
29 1,1,1-Trichloroethane	97	11.071	11.071	(1.014)	990613	100.000	104.0473
30 1,1-Dichloropropene	75	11.307	11.307	(0.935)	1068939	100.000	103.3280
31 Carbon Tetrachloride	117	11.347	11.347	(0.938)	810202	100.000	107.4128
$ 32 1,2-Dichloroethane-d4	65	11.475	11.475	(0.949)	887744	50.0000	50.1977
33 1,2-Dichloroethane	62	11.593	11.593	(0.958)	1021481	100.000	98.8890
34 Benzene	78	11.643	11.643	(0.962)	3059890	100.000	97.1181
35 Methyl tert-Amyl Ether (TAME)	73	11.692	11.692	(0.967)	2413532	100.000	102.4862
* 36 1,4-Difluorobenzene	114	12.096	12.096	(1.000)	2410876	50.0000	
37 Trichloroethene	95	12.540	12.540	(1.037)	805882	100.000	102.1270
38 1,2-Dichloropropane	63	12.856	12.856	(1.063)	967899	100.000	100.1344
$ 39 Trifluorotoluene	146	12.846	12.846	(1.062)	1140696	100.000	108.6107
40 Dibromomethane	93	13.033	13.033	(1.077)	660078	100.000	102.4825
41 Bromodichloromethane	83	13.191	13.191	(1.090)	1041479	100.000	103.5003
42 2-Chloroethylvinylether	63	13.516	13.516	(1.117)	673519	100.000	106.1878
43 cis-1,3-Dichloropropene	75	13.793	13.793	(1.140)	1346364	100.000	99.9908
44 Tetramethyl THF	43	13.871	13.871	(1.147)	1844803	100.000	98.1665
45 4-Methyl-2-Pentanone	43	13.921	13.921	(1.151)	1240355	100.000	103.2738
$ 46 Toluene-d8	98	14.207	14.207	(1.174)	2445252	50.0000	50.7612
47 Toluene	92	14.295	14.295	(1.182)	1773401	100.000	99.2994
48 trans-1,3-Dichloropropene	75	14.493	14.493	(1.198)	1207478	100.000	100.1538
49 1,1,2-Trichloroethane	85	14.759	14.759	(1.220)	453695	100.000	104.5826
50 1,3-Dichloropropane	76	14.986	14.986	(0.934)	1281433	100.000	99.6318
51 2-Hexanone	43	14.996	14.996	(0.934)	703305	100.000	101.1667
52 Tetrachloroethene	166	15.035	15.035	(0.937)	735830	100.000	103.5305
53 Dibromochloromethane	129	15.311	15.311	(0.954)	855969	100.000	106.6823
54 1,2-Dibromoethane	107	15.499	15.499	(1.281)	899925	100.000	104.4274
* 55 Chlorobenzene-d5	117	16.051	16.051	(1.000)	1957980	50.0000	
56 Chlorobenzene	112	16.080	16.080	(1.002)	1925299	100.000	96.7386
57 1,1,1,2-Tetrachloroethane	131	16.149	16.149	(1.006)	698759	100.000	104.7512
58 Ethylbenzene	91	16.169	16.169	(1.007)	3152647	100.000	96.1370
59 m,p-Xylenes	106	16.297	16.297	(1.015)	2321985	200.000	201.5454
60 o-Xylene	106	16.781	16.781	(1.045)	1139233	100.000	102.6099
61 Styrene	104	16.791	16.791	(1.046)	1937237	100.000	104.1915
62 Bromoform	173	17.057	17.057	(1.063)	624432	100.000	105.8997
63 Isopropylbenzene	105	17.185	17.185	(0.916)	2698727	100.000	95.8679
64 Cyclohexanone_	55	17.323	17.323	(0.924)	575978	1000.00	875.0104
$ 65 Bromofluorobenzene	95	17.382	17.382	(0.927)	1041035	50.0000	49.2812
66 1,1,2,2-Tetrachloroethane	83	17.481	17.481	(0.932)	1110137	100.000	97.9650
67 1,2,3-Trichloropropane	110	17.560	17.560	(0.936)	262816	100.000	99.3682
68 Bromobenzene	156	17.609	17.609	(0.939)	846304	100.000	102.7227
69 Propylbenzene	91	17.648	17.648	(0.941)	3189720	100.000	94.9766
70 2-Chlorotoluene	91	17.796	17.796	(0.949)	2211233	100.000	96.1643
71 1,3,5-Trimethylbenzene	105	17.816	17.816	(0.950)	1933025	100.000	101.0907
72 4-Chlorotoluene	91	17.915	17.915	(0.955)	2030255	100.000	97.5541
73 tert-Butylbenzene	119	18.230	18.230	(0.972)	1712488	100.000	100.0235
74 1,2,4-Trimethylbenzene	105	18.270	18.270	(0.974)	1823629	100.000	102.0088
75 sec-Butylbenzene	105	18.477	18.477	(0.985)	2572557	100.000	99.7145
76 para-Isopropyl Toluene	119	18.615	18.615	(0.993)	1865338	100.000	102.4716

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Report Date: 24-Nov-2004 16:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.684	18.684	(0.996)	1291858	100.000	99.8738
* 78 1,4-Dichlorobenzene-d4	152	18.753	18.753	(1.000)	893902	50.0000	
79 1,4-Dichlorobenzene	146	18.783	18.783	(1.002)	1322680	100.000	97.7489
80 n-Butylbenzene	91	19.118	19.118	(1.019)	1742307	100.000	101.0929
81 1,2-Dichlorobenzene	146	19.266	19.266	(1.027)	1246065	100.000	98.7833
82 1,2-Dibromo-3-Chloropropane	75	20.252	20.252	(1.080)	173307	100.000	101.4769
83 1,2,4-Trichlorobenzene	180	21.514	21.514	(1.147)	493818	100.000	103.5110
84 Hexachlorobutadiene	225	21.731	21.731	(1.159)	295245	100.000	105.1368
85 Naphthalene	128	21.968	21.968	(1.171)	1191099	100.000	112.2955
86 1,2,3-Trichlorobenzene	180	22.382	22.382	(1.194)	459676	100.000	108.5760

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN18.D
Date : 24-NOV-2004 00:11
Client ID: DYNA P&T
Sample Info: ICAL,04SS408,0.02/100,04WS21680,0.04/100
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494472916020 Filename : jkn20 Injected : 24-NOV-2004 01:18
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04WS1940 (10000X), 04WS1968 (10000X), 04WS2096C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	25.00000	25.92150	ug/L	4	40	
Freon 113	25.00000	26.98880	ug/L	8	30	
1,1-Dichloroethene	25.00000	25.34860	ug/L	1	20	
Methylene Chloride	25.00000	25.25840	ug/L	1	30	
Carbon Disulfide	25.00000	20.30100	ug/L	-19	30	
MTBE	25.00000	25.44820	ug/L	2	30	
trans-1,2-Dichloroethene	25.00000	24.53130	ug/L	-2	30	
Vinyl Acetate	25.00000	27.29590	ug/L	9	40	
1,1-Dichloroethane	25.00000	24.97890	ug/L	0	30	
2-Butanone	25.00000	27.99340	ug/L	12	40	
2,2-Dichloropropane	25.00000	24.42300	ug/L	-2	30	
cis-1,2-Dichloroethene	25.00000	25.06320	ug/L	0	30	
Chloroform	25.00000	24.67830	ug/L	-1	20	
Bromochloromethane	25.00000	26.49760	ug/L	6	30	
1,1,1-Trichloroethane	25.00000	25.93410	ug/L	4	30	
1,1-Dichloropropene	25.00000	24.64450	ug/L	-1	30	
Carbon Tetrachloride	25.00000	26.03370	ug/L	4	30	
1,2-Dichloroethane	25.00000	25.34450	ug/L	1	30	
Benzene	25.00000	25.74620	ug/L	3	30	
Trichloroethene	25.00000	25.67690	ug/L	3	30	
1,2-Dichloropropane	25.00000	24.67840	ug/L	-1	20	
Bromodichloromethane	25.00000	26.82790	ug/L	7	30	
Dibromomethane	25.00000	25.66460	ug/L	3	30	
2-Chloroethylvinylether	25.00000	6.063200	ug/L	-76	40	v- ***
4-Methyl-2-Pentanone	25.00000	24.35550	ug/L	-3	40	
Tetramethyl THF	25.00000	28.99020	ug/L	16	30	
cis-1,3-Dichloropropene	25.00000	25.34270	ug/L	1	30	
Toluene	25.00000	25.41750	ug/L	2	20	
trans-1,3-Dichloropropene	25.00000	24.39370	ug/L	-2	30	
1,1,2-Trichloroethane	25.00000	26.93650	ug/L	8	30	
2-Hexanone	25.00000	27.45230	ug/L	10	40	
1,3-Dichloropropane	25.00000	25.80700	ug/L	3	30	
Tetrachloroethene	25.00000	25.45030	ug/L	2	30	
Dibromochloromethane	25.00000	26.47560	ug/L	6	30	
1,2-Dibromoethane	25.00000	25.91390	ug/L	4	30	
Chlorobenzene	25.00000	25.35200	ug/L	1	30	
1,1,1,2-Tetrachloroethane	25.00000	25.79620	ug/L	3	30	
Ethylbenzene	25.00000	25.77040	ug/L	3	20	
m,p-Xylenes	50.00000	51.10020	ug/L	2	30	
o-Xylene	25.00000	25.57370	ug/L	2	30	
Styrene	25.00000	27.41400	ug/L	10	30	
Bromoform	25.00000	25.21390	ug/L	1	30	
Isopropylbenzene	25.00000	23.78850	ug/L	-5	30	
1,1,2,2-Tetrachloroethane	25.00000	25.66130	ug/L	3	30	
1,2,3-Trichloropropane	25.00000	26.26980	ug/L	5	30	
Propylbenzene	25.00000	25.65340	ug/L	3	30	
Bromobenzene	25.00000	26.93930	ug/L	8	30	

-=low bias v=ICV

500

11/29/04

11/24/04

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494472916020 Filename : jkn20 Injected : 24-NOV-2004 01:18
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04WS1940 (10000X), 04WS1968 (10000X), 04WS2096C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	25.00000	26.39720	ug/L	6	30	
2-Chlorotoluene	25.00000	26.21110	ug/L	5	30	
4-Chlorotoluene	25.00000	25.85890	ug/L	3	30	
tert-Butylbenzene	25.00000	26.23410	ug/L	5	30	
1,2,4-Trimethylbenzene	25.00000	26.90350	ug/L	8	30	
sec-Butylbenzene	25.00000	26.24360	ug/L	5	30	
para-Isopropyl Toluene	25.00000	25.13890	ug/L	1	30	
1,3-Dichlorobenzene	25.00000	25.90400	ug/L	4	30	
1,4-Dichlorobenzene	25.00000	25.77480	ug/L	3	30	
n-Butylbenzene	25.00000	26.29170	ug/L	5	30	
1,2-Dichlorobenzene	25.00000	26.13720	ug/L	5	30	
1,2-Dibromo-3-Chloropropane	25.00000	25.90720	ug/L	4	30	
1,2,4-Trichlorobenzene	25.00000	27.06720	ug/L	8	30	
Hexachlorobutadiene	25.00000	27.27440	ug/L	9	30	
Naphthalene	25.00000	27.19800	ug/L	9	30	
1,2,3-Trichlorobenzene	25.00000	27.58100	ug/L	10	30	
tert-Butyl Alcohol (TBA)	125.0000	148.1810	ug/L	19	30	
Isopropyl Ether (DIPE)	25.00000	26.17740	ug/L	5	30	
Ethyl tert-Butyl Ether (ETBE)	25.00000	26.83580	ug/L	7	30	
Methyl tert-Amyl Ether (TAME)	25.00000	26.43370	ug/L	6	30	
Ethanol	2500.000	2768.396	ug/L	11	30	
Isopropanol	250.0000	285.2847	ug/L	14	30	
Tetrahydrofuran	250.0000	259.4585	ug/L	4	30	
Dibromofluoromethane	50.00000	49.55190	ug/L	-1	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	48.71940	ug/L	-3	30	(NOT USED)
Toluene-d8	50.00000	49.85650	ug/L	0	30	(NOT USED)
Bromofluorobenzene	50.00000	50.24380	ug/L	0	30	(NOT USED)

ISTD (ICAL=jkn16)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1560741	1568836	0.52	10.91	10.92	0.01
1,4-Difluorobenzene	2406782	2389488	-0.72	12.09	12.09	0.00
Chlorobenzene-d5	1964862	1942213	-1.15	16.05	16.05	0.00
1,4-Dichlorobenzene-d4	876337	846193	-3.44	18.75	18.75	0.00

-=low bias v=ICV

 11/29/04

11/29/04

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Report Date: 24-Nov-2004 11:15

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 01:18 MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICV,04WS1940,10000X,04WS1968,10000X
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target Quant Type: ISTD
Cal Date : 24-NOV-2004 00:11 Cal File: JKN18.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
2 Chloromethane	50	5.179	5.292	(0.474)	5752	0.40559	0.4055
4 Bromomethane	94	6.116	6.150	(0.560)	39069	5.71811	5.7181
7 Ethanol	45	6.924	6.929	(0.634)	318318	2768.40	2768.3957
8 Freon 113	101	7.615	7.609	(0.697)	168936	26.9888	26.9888
9 Acetone	43	7.624	7.629	(0.698)	78847	25.9215	25.9215
10 1,1-Dichloroethene	96	7.634	7.639	(0.699)	163408	25.3486	25.3485
11 Isopropanol	45	7.743	7.737	(0.709)	155181	285.285	285.2847
12 Carbon Disulfide	76	8.088	8.102	(0.741)	529822	20.3010	20.3010
13 Methylene Chloride	84	8.354	8.359	(0.765)	224888	25.2584	25.2583
14 tert-Butyl Alcohol (TBA)	59	8.364	8.359	(0.766)	102080	148.181	148.1810
15 MTBE	73	8.749	8.753	(0.801)	565490	25.4482	25.4482
16 trans-1,2-Dichloroethene	96	8.788	8.793	(0.805)	195592	24.5313	24.5313
17 Vinyl Acetate	43	9.370	9.374	(0.858)	647098	27.2959	27.2959
18 1,1-Dichloroethane	63	9.409	9.414	(0.862)	367931	24.9789	24.9788
19 Isopropyl Ether (DIPE)	45	9.429	9.434	(0.864)	840052	26.1774	26.1774
20 Ethyl tert-Butyl Ether (ETBE)	59	9.962	9.966	(0.912)	694383	26.8358	26.8358
21 2-Butanone	43	10.198	10.193	(0.934)	137068	27.9934	27.9933
22 cis-1,2-Dichloroethene	96	10.257	10.262	(0.939)	220159	25.0632	25.0631
23 2,2-Dichloropropane	77	10.297	10.301	(0.943)	221528	24.4230	24.4230
24 Bromochloromethane	128	10.622	10.627	(0.973)	117453	26.4976	26.4975
25 Chloroform	83	10.691	10.696	(0.979)	335619	24.6783	24.6783
26 Tetrahydrofuran	42	10.701	10.706	(0.980)	732297	259.458	259.4584

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Report Date: 24-Nov-2004 11:15

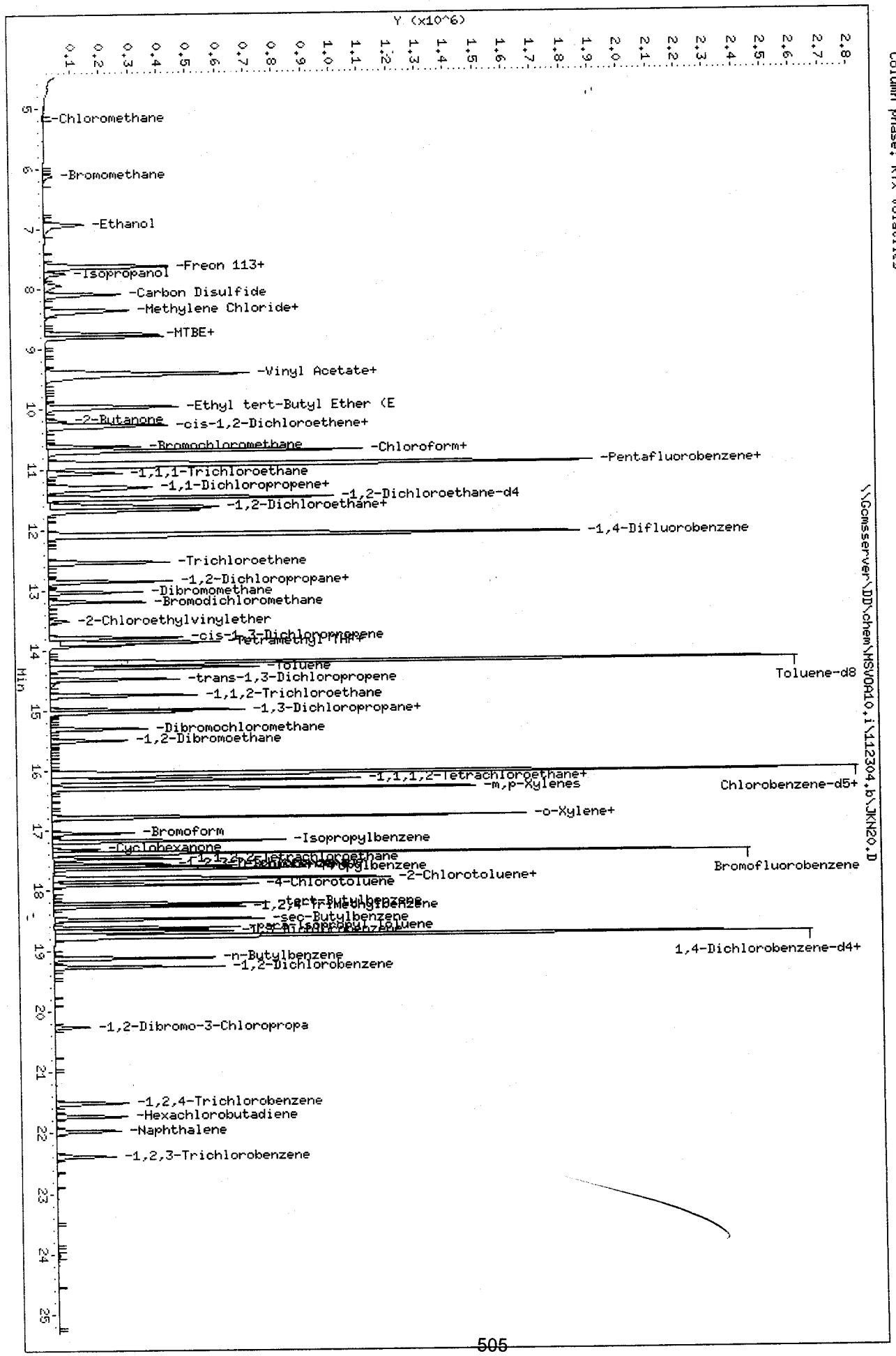
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
*	27 Pentafluorobenzene	168	10.918	10.923	(1.000)	1568836	50.0000	
$	28 Dibromofluoromethane	113	10.938	10.933	(1.002)	905688	49.5519	49.5519
	29 1,1,1-Trichloroethane	97	11.066	11.071	(1.014)	245777	25.9341	25.9341
	30 1,1-Dichloropropene	75	11.303	11.307	(0.935)	252688	24.6445	24.6444
	31 Carbon Tetrachloride	117	11.342	11.347	(0.938)	194627	26.0337	26.0337
$	32 1,2-Dichloroethane-d4	65	11.480	11.475	(0.949)	853957	48.7194	48.7194
	33 1,2-Dichloroethane	62	11.599	11.593	(0.959)	259475	25.3445	25.3444
	34 Benzene	78	11.638	11.643	(0.962)	803987	25.7462	25.7462
	35 Methyl tert-Amyl Ether (TAME)	73	11.687	11.692	(0.967)	616985	26.4337	26.4336
*	36 1,4-Difluorobenzene	114	12.092	12.096	(1.000)	2389488	50.0000	
	37 Trichloroethene	95	12.536	12.540	(1.037)	200818	25.6769	25.6768
	38 1,2-Dichloropropane	63	12.861	12.856	(1.064)	236425	24.6784	24.6783
$	39 Trifluorotoluene	146	12.851	12.846	(1.063)	3898	0.37447	0.3744
	40 Dibromomethane	93	13.029	13.033	(1.077)	163836	25.6646	25.6645
	41 Bromodichloromethane	83	13.196	13.191	(1.091)	267563	26.8279	26.8279
	42 2-Chloroethylvinylether	63	13.512	13.516	(1.117)	38116	6.06321	6.0632
	43 cis-1,3-Dichloropropene	75	13.788	13.793	(1.140)	338209	25.3427	25.3427
	44 Tetramethyl THF	43	13.877	13.871	(1.148)	539967	28.9902	28.9901
	45 4-Methyl-2-Pentanone	43	13.926	13.921	(1.152)	289923	24.3555	24.3554
$	46 Toluene-d8	98	14.202	14.207	(1.175)	2380358	49.8565	49.8564
	47 Toluene	92	14.291	14.295	(1.182)	449907	25.4175	25.4174
	48 trans-1,3-Dichloropropene	75	14.488	14.493	(1.198)	291487	24.3937	24.3937
	49 1,1,2-Trichloroethane	85	14.754	14.759	(1.220)	115818	26.9365	26.9365
	50 1,3-Dichloropropane	76	14.991	14.986	(0.934)	329248	25.8070	25.8069
	51 2-Hexanone	43	14.991	14.996	(0.934)	189310	27.4523	27.4523
	52 Tetrachloroethene	166	15.031	15.035	(0.937)	179428	25.4503	25.4502
	53 Dibromochloromethane	129	15.307	15.311	(0.954)	210717	26.4756	26.4755
	54 1,2-Dibromoethane	107	15.494	15.499	(1.281)	221337	25.9139	25.9138
*	55 Chlorobenzene-d5	117	16.046	16.051	(1.000)	1942213	50.0000	
	56 Chlorobenzene	112	16.086	16.080	(1.002)	500493	25.3520	25.3519
	57 1,1,1,2-Tetrachloroethane	131	16.145	16.149	(1.006)	170692	25.7962	25.7962
	58 Ethylbenzene	91	16.165	16.169	(1.007)	838290	25.7704	25.7703
	59 m,p-Xylenes	106	16.303	16.297	(1.016)	583980	51.1002	51.1002
	60 o-Xylene	106	16.786	16.781	(1.046)	281647	25.5737	25.5736
	61 Styrene	104	16.786	16.791	(1.046)	505604	27.4140	27.4139
	62 Bromoform	173	17.052	17.057	(1.063)	147475	25.2139	25.2138
	63 Isopropylbenzene	105	17.180	17.185	(0.916)	633916	23.7885	23.7884
	64 Cyclohexanone_	55	17.319	17.323	(0.924)	83508	134.016	134.0157
$	65 Bromofluorobenzene	95	17.388	17.382	(0.927)	1004722	50.2438	50.2438
	66 1,1,2,2-Tetrachloroethane	83	17.476	17.481	(0.932)	275273	25.6613	25.6613
	67 1,2,3-Trichloropropane	110	17.565	17.560	(0.937)	65772	26.2698	26.2698
	68 Bromobenzene	156	17.614	17.609	(0.940)	210100	26.9393	26.9393
	69 Propylbenzene	91	17.644	17.648	(0.941)	815568	25.6534	25.6533
	70 2-Chlorotoluene	91	17.802	17.796	(0.950)	570539	26.2111	26.2111
	71 1,3,5-Trimethylbenzene	105	17.822	17.816	(0.951)	477819	26.3972	26.3971
	72 4-Chlorotoluene	91	17.910	17.915	(0.955)	509442	25.8589	25.8589
	73 tert-Butylbenzene	119	18.226	18.230	(0.972)	425178	26.2341	26.2340
	74 1,2,4-Trimethylbenzene	105	18.275	18.270	(0.975)	455289	26.9035	26.9035
	75 sec-Butylbenzene	105	18.482	18.477	(0.986)	640928	26.2436	26.2435
	76 para-Isopropyl Toluene	119	18.620	18.615	(0.993)	433192	25.1389	25.1389
	77 1,3-Dichlorobenzene	146	18.679	18.684	(0.996)	317182	25.9040	25.9039
*	78 1,4-Dichlorobenzene-d4	152	18.749	18.753	(1.000)	846193	50.0000	
	79 1,4-Dichlorobenzene	146	18.778	18.783	(1.002)	330154	25.7748	25.7747
	80 n-Butylbenzene	91	19.113	19.118	(1.019)	428945	26.2917	26.2916

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Report Date: 24-Nov-2004 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
81 1,2-Dichlorobenzene	146	19.261	19.266	(1.027)	312101	26.1372	26.1371
82 1,2-Dibromo-3-Chloropropane	75	20.257	20.252	(1.080)	41884	25.9072	25.9071
83 1,2,4-Trichlorobenzene	180	21.510	21.514	(1.147)	122237	27.0672	27.0671
84 Hexachlorobutadiene	225	21.727	21.731	(1.159)	72504	27.2744	27.2743
85 Naphthalene	128	21.963	21.968	(1.171)	273088	27.1980	27.1980
86 1,2,3-Trichlorobenzene	180	22.388	22.382	(1.194)	110537	27.5810	27.5810

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN20.D
Date : 24-NOV-2004 01:18
Client ID: DYNA F&T
Sample Info: ICV,04WS1940,10000X,04WS1968,10000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA10 Run Name :
Seqnum : 494472916019 Filename : jkn19 Injected : 24-NOV-2004 00:45
Calnum : 494472916001 Caldate : 23-NOV-2004 Caltype : WATER
Standards: 04WS2093 (10000X), 04WS2096C (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	25.00000	19.18040	ug/L	-23	30	!v-
Chloromethane	25.00000	19.56640	ug/L	-22	30	!v-
Vinyl Chloride	25.00000	22.26520	ug/L	-11	20	
Bromomethane	25.00000	27.43160	ug/L	10	30	
Chloroethane	25.00000	23.60940	ug/L	-6	30	
Trichlorofluoromethane	25.00000	26.72630	ug/L	7	30	
Dibromofluoromethane	50.00000	49.67960	ug/L	-1	30	
1,2-Dichloroethane-d4	50.00000	48.89310	ug/L	-2	30	
Toluene-d8	50.00000	49.98970	ug/L	0	30	
Bromofluorobenzene	50.00000	51.98220	ug/L	4	30	

ISTD (ICAL=jkn16)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	1560741	1588164	1.76	10.91	10.92	0.01
1,4-Difluorobenzene	2406782	2450382	1.81	12.09	12.09	0.00
Chlorobenzene-d5	1964862	2005877	2.09	16.05	16.05	0.00
1,4-Dichlorobenzene-d4	876337	858235	-2.07	18.75	18.75	0.00

!=warning -=low bias v=ICV
Page 1 of 1

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Report Date: 24-Nov-2004 11:14

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 24-NOV-2004 00:45 MS Autotune Date: 22-SEP-2004 10:51
Operator : VOC Inst ID: MSVOA10.i
Smp Info : ICV,04WS2093,10000X
Misc Info : NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\826GOX10.m
Meth Date : 24-Nov-2004 11:14 target Quant Type: ISTD
Cal Date : 24-NOV-2004 00:11 Cal File: JKN18.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK01

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

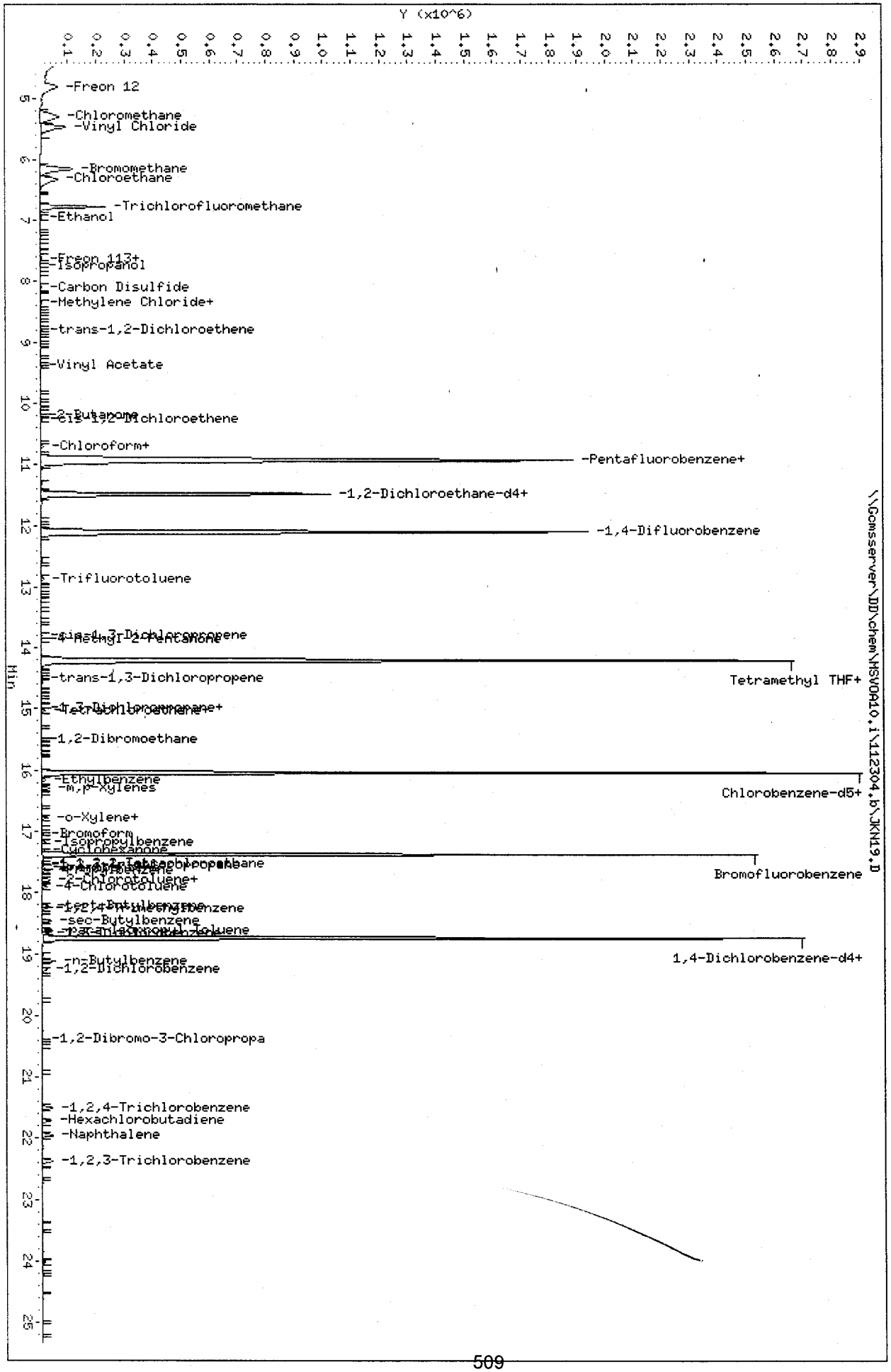
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (UG/L)
	1 Freon 12	85	4.813	4.808	(0.441)	177580	19.1804	19.1803
	2 Chloromethane	50	5.296	5.292	(0.485)	280905	19.5664	19.5663
	3 Vinyl Chloride	62	5.464	5.459	(0.500)	276522	22.2652	22.2651
	4 Bromomethane	94	6.154	6.150	(0.564)	204564	27.4316	27.4316
	5 Chloroethane	64	6.312	6.327	(0.578)	171913	23.6094	23.6093
	6 Trichlorofluoromethane	101	6.775	6.771	(0.621)	281019	26.7263	26.7263
	7 Ethanol	45	6.933	6.929	(0.635)	7056	60.6189	60.6188
	8 Freon 113	101	7.623	7.609	(0.698)	890	0.14045	0.1404
	9 Acetone	43	7.653	7.629	(0.701)	3440	1.11716	1.1171
	10 1,1-Dichloroethene	96	7.633	7.639	(0.699)	1321	0.20243	0.2024
	11 Isopropanol	45	7.742	7.737	(0.709)	3598	6.53406	6.5340
	12 Carbon Disulfide	76	8.097	8.102	(0.742)	9500	0.35958	0.3595
	13 Methylene Chloride	84	8.373	8.359	(0.767)	3219	0.35714	0.3571
	14 tert-Butyl Alcohol (TBA)	59	8.353	8.359	(0.765)	1945	2.78903	2.7890
	16 trans-1,2-Dichloroethene	96	8.787	8.793	(0.805)	2154	0.26687	0.2668
	17 Vinyl Acetate	43	9.369	9.374	(0.858)	3564	0.14851	0.1485
	21 2-Butanone	43	10.207	10.193	(0.935)	1340	0.27034	0.2703
	22 cis-1,2-Dichloroethene	96	10.257	10.262	(0.939)	1457	0.16385	0.1638
	25 Chloroform	83	10.700	10.696	(0.980)	1426	0.10358	0.1035
	26 Tetrahydrofuran	42	10.720	10.706	(0.982)	6929	2.42512	2.4251
*	27 Pentafluorobenzene	168	10.917	10.923	(1.000)	1588164	50.0000	
$	28 Dibromofluoromethane	113	10.937	10.933	(1.002)	919208	49.6796	49.6795

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Report Date: 24-Nov-2004 11:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (UG/L)
29 1,1,1-Trichloroethane	97	11.065	11.071	(1.014)	1590	0.16573	0.1657
$ 32 1,2-Dichloroethane-d4	65	11.479	11.475	(0.949)	878841	48.8931	48.8931
34 Benzene	78	11.637	11.643	(0.962)	5868	0.18324	0.1832
* 36 1,4-Difluorobenzene	114	12.091	12.096	(1.000)	2450382	50.0000	
$ 39 Trifluorotoluene	146	12.840	12.846	(1.062)	6491	0.60807	0.6080
43 cis-1,3-Dichloropropene	75	13.797	13.793	(1.141)	2189	0.15995	0.1599
44 Tetramethyl THF	43	14.201	13.871	(1.175)	14507	0.75951	0.7595
45 4-Methyl-2-Pentanone	43	13.876	13.921	(1.148)	1301	0.10658	0.1065
$ 46 Toluene-d8	98	14.201	14.207	(1.175)	2447543	49.9897	49.9896
47 Toluene	92	14.290	14.295	(1.182)	4763	0.26240	0.2623
48 trans-1,3-Dichloropropene	75	14.497	14.493	(1.199)	2060	0.16811	0.1681
50 1,3-Dichloropropane	76	14.980	14.986	(0.934)	1449	0.10997	0.1099
51 2-Hexanone	43	14.980	14.996	(0.934)	2116	0.29711	0.2971
52 Tetrachloroethene	166	15.040	15.035	(0.937)	4789	0.65772	0.6577
53 Dibromochloromethane	129	15.030	15.311	(0.937)	3961	0.48188	0.4818
54 1,2-Dibromoethane	107	15.503	15.499	(1.282)	1101	0.12570	0.1257
* 55 Chlorobenzene-d5	117	16.045	16.051	(1.000)	2005877	50.0000	
56 Chlorobenzene	112	16.085	16.080	(1.002)	7436	0.36471	0.3647
58 Ethylbenzene	91	16.164	16.169	(1.007)	12848	0.38243	0.3824
59 m,p-Xylenes	106	16.302	16.297	(1.016)	9946	0.84269	0.8426
60 o-Xylene	106	16.785	16.781	(1.046)	3464	0.30455	0.3045
61 Styrene	104	16.785	16.791	(1.046)	6563	0.34455	0.3445
62 Bromoform	173	17.051	17.057	(1.063)	1364	0.22580	0.2258
63 Isopropylbenzene	105	17.180	17.185	(0.916)	14020	0.51874	0.5187
64 Cyclohexanone_	55	17.318	17.323	(0.924)	3681	5.82448	5.8244
$ 65 Bromofluorobenzene	95	17.387	17.382	(0.927)	1054276	51.9822	51.9821
66 1,1,2,2-Tetrachloroethane	83	17.475	17.481	(0.932)	2364	0.21728	0.2172
67 1,2,3-Trichloropropane	110	17.554	17.560	(0.936)	346	0.13626	0.1362
68 Bromobenzene	156	17.613	17.609	(0.940)	3140	0.39697	0.3969
69 Propylbenzene	91	17.643	17.648	(0.941)	28414	0.88121	0.8812
70 2-Chlorotoluene	91	17.801	17.796	(0.950)	13984	0.63342	0.6334
71 1,3,5-Trimethylbenzene	105	17.821	17.816	(0.951)	15505	0.84456	0.8445
72 4-Chlorotoluene	91	17.909	17.915	(0.955)	15349	0.76817	0.7681
73 tert-Butylbenzene	119	18.225	18.230	(0.972)	13470	0.81946	0.8194
74 1,2,4-Trimethylbenzene	105	18.274	18.270	(0.975)	15033	0.87585	0.8758
75 sec-Butylbenzene	105	18.481	18.477	(0.986)	30549	1.23332	1.2333
76 para-Isopropyl Toluene	119	18.619	18.615	(0.993)	23667	1.35417	1.3541
77 1,3-Dichlorobenzene	146	18.688	18.684	(0.997)	12354	0.99478	0.9947
* 78 1,4-Dichlorobenzene-d4	152	18.748	18.753	(1.000)	858235	50.0000	
79 1,4-Dichlorobenzene	146	18.777	18.783	(1.002)	14307	1.10126	1.1012
80 n-Butylbenzene	91	19.122	19.118	(1.020)	34983	2.11416	2.1141
81 1,2-Dichlorobenzene	146	19.260	19.266	(1.027)	10433	0.86146	0.8614
82 1,2-Dibromo-3-Chloropropane	75	20.256	20.252	(1.080)	655	0.39946	0.3994
83 1,2,4-Trichlorobenzene	180	21.509	21.514	(1.147)	19176	4.18660	4.1866
84 Hexachlorobutadiene	225	21.726	21.731	(1.159)	10181	3.77613	3.7761
85 Naphthalene	128	21.972	21.968	(1.172)	48009	4.71434	4.7143
86 1,2,3-Trichlorobenzene	180	22.387	22.382	(1.194)	20800	5.11716	5.1171

Data File: \\Comsserver\DD\chem\MSVOA10.i\112304.b\JKN19.D
Date : 24-NOV-2004 00:45
Client ID: DYNA P&T
Sample Info: ICV,04WS2093,10000X
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA10.i
Operator: VOC
Column diameter: 0.32



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176728

Treadwell & Rollo
555 Montgomery Street
San Francisco, CA 94111

Project#: 2893.04.51
Location: Presidio

Sample ID	Lab ID
BB3PZ101	176728-001
BB3SW102	176728-002
BB3SW101	176728-003
TB0412173A	176728-004

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: _____ Date: 1/13/05
Operations Manager

Signature: _____ Date: 1/11/05
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**176728**
Client:	**Treadwell & Rollo**
Project:	**2893.04.51**
Location:	**Presidio**
Request Date:	**12/17/04**
Samples Received:	**12/17/04**

This hardcopy data package contains sample and QC results for four water samples, requested for the above referenced project on 12/17/04. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recoveries were observed for bromofluorobenzene (FID) in a number of samples. High surrogate recovery was observed for trifluorotoluene (FID) in the LCS for batch 97615. High surrogate recovery was observed for trifluorotoluene (FID) in the MS of 1349MW102 (lab # 176726-004). High surrogate recovery was observed for trifluorotoluene (FID) in the MSD of 1349MW102 (lab # 176726-004). No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Low response was observed for carbon disulfide in the ICV analyzed 12/07/04 19:49; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Metals (EPA 6020) Water:
Responses exceeding the instrument's linear range were observed for magnesium and sodium in the MS/MSD of 1065PZ9B (lab # 176731-004). No other analytical problems were encountered.

Metals (EPA 6020) Filtrate:
Responses exceeding the instrument's linear range were observed for a number of analytes in the MS/MSD of 1349MW102 (lab # 176726-004) and the MS/MSD of BB3SW102 (lab # 176728-002). An amended package has been provided for the filtrate analysis. The incorrect sample containers were used for preparation to obtain the original reported results. No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Alkalinity (EPA 310.1):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (EPA 160.1):
No analytical problems were encountered.

Curtis & Tompkins, Ltd

Chain of Custody

176728

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio
Job Number: 2893
Project Manager\Contact: Josh Graeber
Samplers: Morgan Gillies
Recorder (Signature Required):

Turnaround Time: Standard

	Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	TPH-G (8015)	TPH-D	TPH-Fo	Gen. Chem Parameters	Diss. Metals (Field Filtered)	Total Metals	TDS	VOCs (8260)					Silica gel clean-up	Hold	Remarks
-1	BB35W103	12/16/04	1630			X		3		2		2	X	X	X	X	X	X	X						X		22 Metals include
-2	BB35W102	12/17/04	835			X		3		2		2	X	X	X	X	X	X	X								Al, Sb, As, Ba, Be, Cr
-3	BB35W101	12/17/04	900			X		3					X														Cd, Ca, Co, Cu, Fe, Pb,
-4	TB0412173A	12/17/04																		X							Mg, Mn, Ni, K, Ag, Na
N/A	Temp.																										Se, Th, V, Zn.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/17/04		[signature]	12/17/04	1042
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis + Tompkins
Laboratory Comments/Notes:

Method of Shipment: ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002317

4

Subject: RE: C&T Login Summary for 176662
From: "Joshua Graber" <jdgraber@treadwellrollo.com>
Date: Thu, 16 Dec 2004 12:54:33 -0800
To: "Steve Stanley" <steve@ctberk.com>

Thanks Steve!

I have another request and I hope it is easy for you to do. Could you separate the BB3GW100 and the BB3GW100RB100 samples into their own SDGs? The Trust is looking at this data apart from the GWM Project and would like this data to be validated separately.

Also, Blaine Tech is sampling 4 seep locations today and we would like to have these locations (BB3SW100 through BB3SW103) reported separately as well, for the same reasons as above.

I'm sorry for the inconvenience.

Please let me know if there is any problem.

Thanks!
Josh

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Thursday, December 16, 2004 12:34 PM
To: Joshua Graber
Cc: Colleen Haraden; Carole Nuttall
Subject: C&T Login Summary for 176662

C&T Login Summary for 176662

Project:

Subject: RE: Baker Beach Questions
From: "Colleen Haraden" <ccharaden@treadwellrollo.com>
Date: Fri, 7 Jan 2005 12:05:04 -0800
To: "Steve Stanley" <steve@ctberk.com>
CC: "Sigrida Reinis" <sreinis@treadwellrollo.com>, "Michael Chamberlain" <mchamberlain@treadwellrollo.com>, "Donna Breaux" <dataval@msn.com>

Hi Steve,

Please change sample ID from BB3SW103 TO BB3PZ101.

Thanks,

Colleen

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 176728 Date Received: 12/17/04 Number of Coolers: 7
Client: Treadwell + Rollo Project: Presidio

A. Preliminary Examination Phase
Date Opened: 12/17/04 By (print): [illegible] (sign) [illegible]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... YES NO
   How many and where? lon Lid Seal date: 12/17 Seal name: [illegible]
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO
4. Were custody papers dry and intact when received?..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO
7. Was project identifiable from custody papers?..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: 3.6°, 2°, 2°, 2.1°, 2.2°, 3.6°, 2.4

B. Login Phase
Date Logged In: ~~12/17/0~~ 12-17-04 By (print): Tray Windsor (sign) [illegible]

1. Describe type of packing in cooler: Zip Loc bags
2. Did all bottles arrive unbroken?..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?.. YES NO
4. Did bottle labels agree with custody papers?..... YES NO
5. Were appropriate containers used for the tests indicated?..... YES NO
6. Were correct preservatives added to samples?..... YES NO
7. Was sufficient amount of sample sent for tests indicated?..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:
B3 - Sample - 002 1L amber label w/no time on it

Filename: F:\qc\forms\qc\cooler.doc Rev. 1, 4/95

TOTAL VOLATILE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	97615
Units:	ug/L	Received:	12/17/04
Diln Fac:	1.000	Analyzed:	12/17/04

Field ID: BB3PZ101 Lab ID: 176728-001
Type: SAMPLE Sampled: 12/16/04

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	136 *	65-135

Field ID: BB3SW102 Lab ID: 176728-002
Type: SAMPLE Sampled: 12/17/04

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	65-135
Bromofluorobenzene (FID)	138 *	65-135

Field ID: BB3SW101 Lab ID: 176728-003
Type: SAMPLE Sampled: 12/17/04

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	65-135
Bromofluorobenzene (FID)	134	65-135

Type: BLANK Lab ID: QC276832

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	65-135
Bromofluorobenzene (FID)	125	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC276834	Batch#:	97615
Matrix:	Water	Analyzed:	12/17/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,029	101	75-125

Surrogate	%REC	Limits
Trifluorotoluene (FID)	152 *	65-135
Bromofluorobenzene (FID)	143 *	65-135

*= Value outside of QC limits; see narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW102	Batch#:	97615
MSS Lab ID:	176726-004	Sampled:	12/16/04
Matrix:	Water	Received:	12/17/04
Units:	ug/L	Analyzed:	12/18/04
Diln Fac:	1.000		

Type: MS Lab ID: QC276844

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	22.36	2,000	1,994	99	65-135

Surrogate	%REC	Limits
Trifluorotoluene (FID)	143 *	65-135
Bromofluorobenzene (FID)	140 *	65-135

Type: MSD Lab ID: QC276845

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,007	99	65-135	1	35

Surrogate	%REC	Limits
Trifluorotoluene (FID)	146 *	65-135
Bromofluorobenzene (FID)	143 *	65-135

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176728 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH
Calnum: 304466014001 Name: tvh Type: (normal) Date: 18-NOV-2004 20:30 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	323_007	304466014007	tvh1	18-NOV-2004 20:30	04WS1982 (1000X), 04WS1966 (5000X)
2	323_008	304466014008	tvh2	18-NOV-2004 21:05	04WS1983 (1000X), 04WS1966 (5000X)
3	323_009	304466014009	tvh3	18-NOV-2004 21:41	04WS1984 (1000X), 04WS1966 (5000X)
4	323_010	304466014010	tvh4	18-NOV-2004 22:17	04WS1985 (2000X), 04WS1966 (5000X)
5	323_011	304466014011	tvh5	18-NOV-2004 22:52	04WS1985 (1000X), 04WS1966 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Gasoline C7-C12	J	2584.4	1778.6	1670.9	2095.6	1820.2	AVRG	R		5.025E-4		ng	1989.9	18	0.995	20	

12

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176728 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Reviewed By: MCH
Calnum: 304485919001 Name: tft/bfb Type: (normal) Date: 02-DEC-2004 11:15 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	337_002	304485919002	tft/bfb 1	02-DEC-2004 11:15	04WS2267 (5000X)
2	337_003	304485919003	tft/bfb 2	02-DEC-2004 11:50	04WS2268 (5000X)
3	337_004	304485919004	tft/bfb 3	02-DEC-2004 12:40	04WS2269 (5000X)
4	337_005	304485919005	tft/bfb 4	02-DEC-2004 13:33	04WS2270 (5000X)
5	337_006	304485919006	tft/bfb 5	02-DEC-2004 14:09	04WS2271 (5000X)

Analyte	Ch	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Trifluorotoluene (FID)	J	1535.1	1610.6	1524.7	1570.3	1744.3	AVRG	R		6.262E-4		ng	1597.0	6	0.995	20	
Bromofluorobenzene (FID)	J	892.38	918.87	886.49	1000.2	1059.7	AVRG	R		0.001051		ng	951.53	8	0.995	20	

13

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176728 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC04 Calname : tvh
Calnum : 304466014001 Caldate : 18-NOV-2004 Caltype :

ICV 304466014013 (323_013) standards: 04WS2154 (1000X), 04WS1966 (5000X)

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Gasoline C7-C12	J	304466014013	19-NOV-2004	10000.0	10789	ng	8

CONTINUING CALIBRATION SUMMARY FOR 176728 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	J	304507388003	17-DEC-2004 09:40	304466014001	18-NOV-2004	1989.9	2018.7	10000	10145	ng	1	15	u
GC04	J	304507388012	17-DEC-2004 20:45	304466014001	18-NOV-2004	1989.9	2018.9	15000	15218	ng	1	15	
GC04	J	304507388013	17-DEC-2004 21:20	304466014001	18-NOV-2004	1989.9	2025.5	15000	15268	ng	2	15	
GC04	J	304507388022	18-DEC-2004 02:41	304466014001	18-NOV-2004	1989.9	2019.8	5000.0	5074.9	ng	1	15	

u=use
Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 176728 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	J	304507388003	17-DEC-2004 09:40	304485919001	02-DEC-2004	1597.0	2420.4	450.00	682.00	ng	52	15	c+
GC04	J	304507388012	17-DEC-2004 20:45	304485919001	02-DEC-2004	1597.0	2724.0	450.00	767.56	ng	71	15	c+
GC04	J	304507388022	18-DEC-2004 02:41	304485919001	02-DEC-2004	1597.0	1909.3	450.00	537.99	ng	20	15	c+

PT qualifier
pass
12/20/04

In-House QC Limits

TFT-FID-W
70-141 % Rec.

+=high bias c=CCV u=use
Page 1 of 1

mcw 12/20/04

CONTINUING CALIBRATION SUMMARY FOR 176728 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC04	J	304507388003	17-DEC-2004 09:40	304485919001	02-DEC-2004	951.53	1360.8	450.00	643.57	ng	**43**	15	c+ u
GC04	J	304507388012	17-DEC-2004 20:45	304485919001	02-DEC-2004	951.53	1376.3	450.00	650.88	ng	**45**	15	c+
GC04	J	304507388022	18-DEC-2004 02:41	304485919001	02-DEC-2004	951.53	1318.2	450.00	623.40	ng	**39**	15	c+

Recalc
pass
12/20/04

In-House QC Limits
BFB-FID-W

80-143% Rec.

mm 12/20/04

+=high bias c=CCV u=use
Page 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 304507388 Instrument: GC04 Gas Chromatograph #4 TVH/BTXE Begun: 17-DEC-2004
Analytical Method: EPA 8015B SOP Version: TVH_BTXE_rv11
Analytical Method: EPA 8021B SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	352_001	X	ib			17-DEC-2004 08:28	1.0						1	
002	352_002	X	QC276833	97615	Water	17-DEC-2004 09:04	1.0			5000			2 1 Not Usap	
003	352_003	CCV/LCS	QC276834	97615	Water	17-DEC-2004 09:40	1.0		3	5000			3 1 pass	
004	352_004	BLANK	QC276832	97615	Water	17-DEC-2004 10:15	1.0	9		5000			1	
005	352_005	SAMPLE	176726-005	97615	Water	17-DEC-2004 16:34	5.0	1		5000	A	1.0	1	
006	352_006	SAMPLE	176726-001	97615	Water	17-DEC-2004 17:10	1.0	1		5000			1	
007	352_007	SAMPLE	176726-002	97615	Water	17-DEC-2004 17:46	1.0	1		5000			1	
008	352_008	SAMPLE	176726-003	97615	Water	17-DEC-2004 18:22	1.0	1		5000			1	
009	352_009	MSS	176726-004	97615	Water	17-DEC-2004 18:57	1.0	3		5000			1	
010	352_010	SAMPLE	176726-006	97615	Water	17-DEC-2004 19:33	1.0	1		5000			1	
011	352_011	SAMPLE	176726-007	97615	Water	17-DEC-2004 20:09	1.0	1		5000			1	
012	352_012	CCV	tvh	97615		17-DEC-2004 20:45	1.0			5000			3 1 pass	
013	352_013	CCV	tvh	97615		17-DEC-2004 21:20	1.0			5000			3 1	
014	352_014	SAMPLE	176726-008	97615	Water	17-DEC-2004 21:56	1.0	1		5000	A	1.0	1	
015	352_015	SAMPLE	176728-001	97615	Water	17-DEC-2004 22:31	1.0	1	1	5000			1	
016	352_016	SAMPLE	176728-002	97615	Water	17-DEC-2004 23:07	1.0	1	1	5000			1	
017	352_017	SAMPLE	176728-003	97615	Water	17-DEC-2004 23:43	1.0	1		5000			1	
018	352_018	MS	QC276844	97615	Water	18-DEC-2004 00:18	1.0		1	5000			3 1 pass	
019	352_019	MSD	QC276845	97615	Water	18-DEC-2004 00:54	1.0		1	5000			3 1	
020	352_020	SAMPLE	176726-005	97615	Water	18-DEC-2004 01:30	1.0	1	1	5000			1	
021	352_021	X	ib			18-DEC-2004 02:05	1.0						1	
022	352_022	CCV	tvh	97615		18-DEC-2004 02:41	1.0			5000		1	3 1 pass	
023	352_023	CCV	tvh	97615		18-DEC-2004 03:17	1.0			5000			3 1	

Stds used: 1=04WS2266 2=04WS2369 3=04WS2235

Analyst: _____ Date: 12/20/04

Page 1 of 1

12/20/04

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12/20/04
Date

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Signed

12/20/04
Date

ROJECT GC04 Sequence by RW

Notebook No. RKM 18

Continued From Page

PROJECT

Notebook No.

Continued From Page

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 304485919 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 02-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC SPK uL	VL	pH	Stds Used	>LR
001	337_001	X	ib			02-DEC-2004 10:39	1.0				1	
002	337_002	ICAL	tft/bfb 1			02-DEC-2004 11:15	1.0				2 pass/use	
003	337_003	ICAL	tft/bfb 2			02-DEC-2004 11:50	1.0				3	
004	337_004	ICAL	tft/bfb 3			02-DEC-2004 12:40	1.0				4	
005	337_005	ICAL	tft/bfb 4			02-DEC-2004 13:33	1.0				5	
006	337_006	ICAL	tft/bfb 5			02-DEC-2004 14:09	1.0				6	
007	337_007	X	ib			02-DEC-2004 16:40	1.0				1	
008	337_008	ICAL	btxe 1			02-DEC-2004 17:16	1.0				7 1 pass/use	
009	337_009	ICAL	mtbe 1			02-DEC-2004 17:51	1.0				8 1	
010	337_010	ICAL	mbtxe 2			02-DEC-2004 18:27	1.0				8 1	
011	337_011	ICAL	mbtxe 3			02-DEC-2004 19:03	1.0				8 1	
012	337_012	ICAL	mbtxe 4			02-DEC-2004 19:38	1.0				9 1	
013	337_013	ICAL	mbtxe 5			02-DEC-2004 20:14	1.0				9 1	
014	337_014	ICAL	mbtxe 6			02-DEC-2004 20:49	1.0				9 1	
015	337_015	ICAL	mtbe 7			02-DEC-2004 21:25	1.0				10 1	
016	337_016	X	ib			02-DEC-2004 22:00	1.0				1	
017	337_017	X	mbtxe			02-DEC-2004 22:35	1.0				11 1 outyser	
018	337_018	ICV	mbtxe			02-DEC-2004 23:10	1.0	5000			11 1 pass/use	

Stds used: 1=04WS2266 2=04WS2267 3=04WS2268 4=04WS2269 5=04WS2270 6=04WS2271 7=04WS2141 8=04WS2142 9=04WS2143 10=04WS2144 ~~11=04W~~
11 = 04WS1964

Analyst: Date: 12/03/04
Page 1 of 1

12/13/04

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Date

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Date

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PROJECT GC04 Benzene Cy Bal

Notebook No. BL 1944

Continued From Page

89

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 18-NOV-2004

Sequence: 304466014 Instrument: GC04
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #4 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	323_001	CCV/LCS	QC272860	96636	Soil	18-NOV-2004 14:54	1.0					1 2 PASS	
002	323_002	CCV	minsp	96636		18-NOV-2004 15:37	1.0					3 2	
003	323_003	CCV	minsp	96636		18-NOV-2004 16:12	1.0					3 2	
004	323_004	BLANK	QC272859	96636	Soil	18-NOV-2004 16:48	1.0					2	
005	323_005	X	ib			18-NOV-2004 19:19	1.0					2	
006	323_006	X	ib			18-NOV-2004 19:54	1.0					2	
007	323_007	ICAL	tvh1			18-NOV-2004 20:30	1.0					4 2 PASS/USE	
008	323_008	ICAL	tvh2			18-NOV-2004 21:05	1.0					5 2	
009	323_009	ICAL	tvh3			18-NOV-2004 21:41	1.0					6 2	
010	323_010	ICAL	tvh4			18-NOV-2004 22:17	1.0					7 2	
011	323_011	ICAL	tvh5			18-NOV-2004 22:52	1.0					7 2	
012	323_012	X	ib			18-NOV-2004 23:28	1.0					2	
013	323_013	ICV	tvh			19-NOV-2004 00:04	1.0	1	5000			1 2 PASS/USE 1:F3BZME=953.541	
014	323_014	X	crbmkr			19-NOV-2004 00:39	1.0					8 9 2	
015	323_015	X	ib			19-NOV-2004 01:15	1.0					2	
016	323_016	X	ib			19-NOV-2004 06:53	1.0					2	
017	323_017	ICAL	tft/bfb 1			19-NOV-2004 07:29	1.0					10 PASS/USE	
018	323_018	ICAL	tft/bfb 2			19-NOV-2004 08:05	1.0					11	
019	323_019	ICAL	tft/bfb 3			19-NOV-2004 08:47	1.0					12	
020	323_020	ICAL	tft/bfb 4			19-NOV-2004 09:29	1.0					13	
021	323_021	ICAL	tft/bfb 5			19-NOV-2004 10:16	1.0					14	

Stds used: 1=04WS2154 2=04WS1986 3=04WS1162 4=04WS1982 5=04WS1983 6=04WS1984 7=04WS1985 8=02SS420 9=02SS421 10=04WS1886 11=04WS1887 12=04WS1888 13=04WS1889 14=04WS1890

Analyst: Date: 11.19.04

Page 1 of 1

11.19.04

Signed Date 11.19.04

Signed Date

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Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 TVH Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	GAS:	STOD	F3BZ	BR4F	
176728-001	GC04	12/17/04 22:31	1.0	+		+	+	
176728-002	GC04	12/17/04 23:07	1.0	+		+	+	
176728-003	GC04	12/17/04 23:43	1.0	+		+	+	
QC276832	GC04	12/17/04 10:15	1.0	+		+	+	
QC276834	GC04	12/17/04 09:40	1.0	+		+	+	
QC276844	GC04	12/18/04 00:18	1.0	+		+	+	
QC276845	GC04	12/18/04 00:54	1.0	+		+	+	

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97615
Date Started: 17-DEC-2004
Batched by : Adam Pereira

Analysis : N/A
Bgroup : TVH
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
176726-001			Treadwell & Rollo	Water	TVH	30-DEC-2004
176726-002			Treadwell & Rollo	Water	TVH	30-DEC-2004
176726-003			Treadwell & Rollo	Water	TVH	30-DEC-2004
176726-004			Treadwell & Rollo	Water	TVH	30-DEC-2004
176726-005			Treadwell & Rollo	Water	TVH	30-DEC-2004
176726-006			Treadwell & Rollo	Water	TVH	30-DEC-2004
176726-007			Treadwell & Rollo	Water	TVH	30-DEC-2004
176726-008			Treadwell & Rollo	Water	TVH	30-DEC-2004
176728-001			Treadwell & Rollo	Water	TVH	30-DEC-2004
176728-002			Treadwell & Rollo	Water	TVH	30-DEC-2004
176728-003			Treadwell & Rollo	Water	TVH	30-DEC-2004
QC276832	MB			Water		
QC276833	LCS			Water		
QC276834	LCS			Water		
QC276844	MS	of 176726-004		Water		
QC276845	MSD	of 176726-004		Water		

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water

Analyte	Units	GC04 J	GC05 G	GC07 A	GC19 X
Gasoline C6-C10	ug/L	02/03/04 8.8	07/12/04 11	11/10/04 20	12/28/04 21
Gasoline C6-C12	ug/L	02/03/04 9.7	07/12/04 8.5	11/10/04 20	12/28/04 21
Gasoline C7-C12	ug/L	02/03/04 11	07/12/04 4.3	11/10/04 24	12/28/04 22
JP-4 C7-C12	ug/L	02/04/04 4.7	12/30/04 9.9	02/10/04 5.1	02/09/04 9.7

TOTAL EXTRACTABLE HYDROCARBONS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520
Project#:	2893.04.51	Analysis:	EPA 8015B
Matrix:	Water	Received:	12/17/04
Units:	ug/L	Prepared:	12/28/04
Diln Fac:	1.000	Analyzed:	12/30/04
Batch#:	97868		

Field ID:	BB3PZ101	Sampled:	12/16/04
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	176728-001		

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
Hexacosane (SGCU)	87	65-135

Field ID:	BB3SW102	Sampled:	12/17/04
Type:	SAMPLE	Cleanup Method:	EPA 3630C
Lab ID:	176728-002		

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
Hexacosane (SGCU)	86	65-135

Type:	BLANK	Cleanup Method:	EPA 3630C
Lab ID:	QC277815		

Analyte	Result	RL
Diesel C12-C24 (SGCU)	ND	50
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
Hexacosane (SGCU)	78	65-135

ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520
Project#:	2893.04.51	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC277816	Batch#:	97868
Matrix:	Water	Prepared:	12/28/04
Units:	ug/L	Analyzed:	01/03/05

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C12-C24 (SGCU)	2,500	1,997	80	65-135

Surrogate	%REC	Limits
Hexacosane (SGCU)	74	65-135

SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1349MW102	Batch#:	97868
MSS Lab ID:	176726-004	Sampled:	12/16/04
Matrix:	Water	Received:	12/17/04
Units:	ug/L	Prepared:	12/28/04
Diln Fac:	1.000	Analyzed:	12/30/04

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC277817

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24 (SGCU)	<21.94	2,500	1,615	65	65-135

Surrogate	%REC	Limits
Hexacosane (SGCU)	72	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC277818

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24 (SGCU)	2,500	1,719	69	65-135	6	35

Surrogate	%REC	Limits
Hexacosane (SGCU)	80	65-135

RPD= Relative Percent Difference
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3520
Project#:	2893.04.51	Analysis:	EPA 8015B
Field ID:	1065PZ9B	Batch#:	97868
MSS Lab ID:	176731-004	Sampled:	12/17/04
Matrix:	Water	Received:	12/17/04
Units:	ug/L	Prepared:	12/28/04
Diln Fac:	1.000	Analyzed:	12/30/04

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC277819

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C12-C24 (SGCU)	<21.94	2,500	2,055	82	65-135

Surrogate	%REC	Limits
Hexacosane (SGCU)	95	65-135

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC277820

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C12-C24 (SGCU)	2,500	2,218	89	65-135	8	35

Surrogate	%REC	Limits
Hexacosane (SGCU)	102	65-135

RPD= Relative Percent Difference
SGCU= Silica gel cleanup

INITIAL CALIBRATION REPORT FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114491750001 Name: dsl Type: (normal) Date: 06-DEC-2004 12:48 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	341a003	114491750003	dsl10	06-DEC-2004 12:48	04WS1748
2	341a004	114491750004	dsl100	06-DEC-2004 13:18	04WS1747
3	341a005	114491750005	dsl250	06-DEC-2004 13:47	04WS1221
4	341a006	114491750006	dsl500	06-DEC-2004 14:16	04WS1745
5	341a007	114491750007	dsl1000	06-DEC-2004 14:46	04WS1744
6	341a008	114491750008	dsl2500	06-DEC-2004 15:15	04WS1743
7	341a009	114491750009	dsl5000	06-DEC-2004 15:44	04WS1742

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Diesel C12-C24	18379	24186	27245	25337	24468	24098	23515	AVRG R		4.186E-5		mg/L	23890	11	0.995	20	

29

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG R		5.502E-5		mg/L	18175	7	0.995	20	

30

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114506134001 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 12:04 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	351a002	114506134002	hex5	16-DEC-2004 12:04	04WS2042
2	351a003	114506134003	hex10	16-DEC-2004 12:33	04WS2043
3	351a004	114506134004	hex25	16-DEC-2004 13:02	04WS2044
4	351a005	114506134005	hex50	16-DEC-2004 13:31	04WS2045
5	351a006	114506134006	hex75	16-DEC-2004 14:00	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	MxRSD	Flags
Hexacosane	29511	28377	29932	29897	29504	AVRG R		3.396E-5		mg/L	29444	2	0.995	20	

31

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030001 Name: Diesel Type: (normal) Date: 15-DEC-2004 18:05 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b003	144505030003	dsl10	15-DEC-2004 18:05	04WS2298
2	350b004	144505030004	dsl100	15-DEC-2004 18:33	04WS2299
3	350b005	144505030005	dsl250	15-DEC-2004 19:01	04WS2300
4	350b006	144505030006	dsl1000	15-DEC-2004 19:29	04WS2302
5	350b007	144505030007	dsl2500	15-DEC-2004 19:58	04WS2303
6	350b008	144505030008	dsl5000	15-DEC-2004 20:26	04WS2297
7	350b027	144505030027	dsl	16-DEC-2004 14:00	04WS2389

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Diesel C12-C24	14347	19586	18288	18764	17524	18785	18705	AVRG R		5.556E-5		mg/L	18000	10	0.995	20	

32

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Reviewed By: MCH
Calnum: 144505030003 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 00:39 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	350b017	144505030017	hex5	16-DEC-2004 00:39	04WS2042
2	350b018	144505030018	hex10	16-DEC-2004 01:07	04WS2043
3	350b019	144505030019	hex25	16-DEC-2004 01:35	04WS2044
4	350b020	144505030020	hex50	16-DEC-2004 02:04	04WS2045
5	350b026	144505030026	hex75	16-DEC-2004 12:15	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	MxRSD	Flags
Hexacosane	22429	20066	21474	22789	22529	AVRG R		4.575E-5		mg/L	21858	5	0.995	20	

33

Curves: AVRG: Average response factor
Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC11A Calname : dsl
Calnum : 114491750001 Caldate : 06-DEC-2004 Caltype :

ICV 114491750011 (341a011) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	A	114491750011	06-DEC-2004	500.00	468.85	mg/L	-6

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC13B Calname : Diesel
Calnum : 144505030001 Caldate : 15-DEC-2004 Caltype :

ICV 144505030029 (350b029) standards: 04WS2006

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D
Diesel C12-C24	B	144505030029	16-DEC-2004	500.00	472.33	mg/L	-6

CONTINUING CALIBRATION SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Diesel C12-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114524681022	29-DEC-2004 20:38	114491750001	06-DEC-2004	23890	24437	250.00	255.73	mg/L	2	15	
GC11A	A	114524681036	30-DEC-2004 03:29	114491750001	06-DEC-2004	23890	25782	500.00	539.61	mg/L	8	15	
GC11A	A	114524681049	30-DEC-2004 09:49	114491750001	06-DEC-2004	23890	26399	1000.0	1105.0	mg/L	11	15	
GC11A	A	114524681061	30-DEC-2004 15:42	114491750001	06-DEC-2004	23890	25156	250.00	263.25	mg/L	5	15	
GC13B	B	145004858003	03-JAN-2005 09:54	144505030001	15-DEC-2004	18000	19223	500.00	533.98	mg/L	7	15	
GC13B	B	145004858008	03-JAN-2005 12:21	144505030001	15-DEC-2004	18000	18385	1000.0	1021.4	mg/L	2	15	

CONTINUING CALIBRATION SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114524681023	29-DEC-2004 21:08	114442646002	02-NOV-2004	18175	18613	500.00	512.06	mg/L	2	15	
GC11A	A	114524681037	30-DEC-2004 03:59	114442646002	02-NOV-2004	18175	20203	500.00	555.79	mg/L	11	15	
GC11A	A	114524681050	30-DEC-2004 10:19	114442646002	02-NOV-2004	18175	19290	500.00	530.67	mg/L	6	15	

CONTINUING CALIBRATION SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
GC11A	A	114524681022	29-DEC-2004 20:38	114506134001	16-DEC-2004	29444	31327	50.000	53.197	mg/L	6	15	
GC11A	A	114524681036	30-DEC-2004 03:29	114506134001	16-DEC-2004	29444	31778	50.000	53.964	mg/L	8	15	
GC11A	A	114524681049	30-DEC-2004 09:49	114506134001	16-DEC-2004	29444	31718	50.000	53.861	mg/L	8	15	
GC11A	A	114524681061	30-DEC-2004 15:42	114506134001	16-DEC-2004	29444	29776	50.000	50.563	mg/L	1	15	
GC13B	B	145004858003	03-JAN-2005 09:54	144505030003	16-DEC-2004	21858	19897	50.000	45.515	mg/L	-9	15	
GC13B	B	145004858008	03-JAN-2005 12:21	144505030003	16-DEC-2004	21858	20946	50.000	47.914	mg/L	-4	15	

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114442646 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 02-NOV-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	307a001	X	primer			02-NOV-2004 09:26	1.0							
002	307a002	X	ib			02-NOV-2004 09:55	1.0							
003	307a003	CCV	dsl			02-NOV-2004 10:24	1.0	6		3			1	
004	307a004	CCV	mo			02-NOV-2004 10:54	1.0	4		3			2	
005	307a005	ICAL	dsl10			02-NOV-2004 13:24	1.0						3	
006	307a006	ICAL	dsl100			02-NOV-2004 13:53	1.0						4	
007	307a007	ICAL	dsl250			02-NOV-2004 14:22	1.0						5	
008	307a008	ICAL	dsl500			02-NOV-2004 14:52	1.0						6	
009	307a009	ICAL	dsl1000			02-NOV-2004 15:21	1.0						7	
010	307a010	ICAL	dsl2500			02-NOV-2004 15:50	1.0						8	
011	307a011	ICAL	dsl5000			02-NOV-2004 16:20	1.0						9	
012	307a012	X	ib			02-NOV-2004 16:49	1.0							
013	307a013	ICAL	mo50			02-NOV-2004 17:19	1.0						10	
014	307a014	ICAL	mo250			02-NOV-2004 17:48	1.0						11	
015	307a015	ICAL	mo500			02-NOV-2004 18:17	1.0						12	
016	307a016	ICAL	mo1000			02-NOV-2004 18:46	1.0						13	
017	307a017	ICAL	mo2500			02-NOV-2004 19:16	1.0						14	
018	307a018	ICAL	mo5000			02-NOV-2004 19:45	1.0						15	
019	307a019	X	ib			02-NOV-2004 20:14	1.0							
020	307a020	ICAL	hex5			02-NOV-2004 20:43	1.0						16	
021	307a021	ICAL	hex10			02-NOV-2004 21:13	1.0						17	
022	307a022	ICAL	hex25			02-NOV-2004 21:42	1.0						18	
023	307a023	ICAL	hex50			02-NOV-2004 22:11	1.0						19	
024	307a024	ICAL	hex75			02-NOV-2004 22:40	1.0						20	
025	307a025	X	ib			02-NOV-2004 23:09	1.0							
026	307a026	CCV	dsl			02-NOV-2004 23:39	1.0			3			1	
027	307a027	CCV	mo			03-NOV-2004 00:08	1.0			3			2	
028	307a028	ICV	dsl500			03-NOV-2004 00:38	1.0			3			21	

Stds used: 1=04WS1975 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS1208 11=04WS1209 12=04WS1210 13=04WS1211 14=04WS1212 15=04WS1012 16=04WS2042 17=04WS2043 18=04WS2044 19=04WS2045 20=04WS2046 21=04WS2006

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum		Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	341a001	X	primer				06-DEC-2004 11:50	1.0				
002	341a002	X	ib				06-DEC-2004 12:19	1.0				
003	341a003	ICAL	dsl10				06-DEC-2004 12:48	1.0	1.0		1	
004	341a004	ICAL	dsl100				06-DEC-2004 13:18	1.0	1.0		2	
005	341a005	ICAL	dsl250				06-DEC-2004 13:47	1.0	1.0		3	
006	341a006	ICAL	dsl500				06-DEC-2004 14:16	1.0	1.0		4	
007	341a007	ICAL	dsl1000				06-DEC-2004 14:46	1.0	1.0		5	
008	341a008	ICAL	dsl2500				06-DEC-2004 15:15	1.0	1.0		6	
009	341a009	ICAL	dsl5000				06-DEC-2004 15:44	1.0	1.0		7	
010	341a010	X	ib				06-DEC-2004 16:14	1.0				
011	341a011	ICV	dsl				06-DEC-2004 16:43	1.0	1.0	3	8	
012	341a012	CCV	dsl				06-DEC-2004 17:13	1.0	1.0	3	9	
013	341a013	CCV	mo				06-DEC-2004 17:42	1.0	1.0	3	10	
014	341a014	SAMPLE	176268-029		97153	Water	06-DEC-2004 18:45	1.0	0.005	3		
015	341a015	SAMPLE	176363-015	S	97153	Water	06-DEC-2004 19:14	1.0	0.005	3		
016	341a016	SAMPLE	176363-012	S	97153	Water	06-DEC-2004 19:43	1.0	0.005	3		
017	341a017	SAMPLE	176363-009	S	97153	Water	06-DEC-2004 20:13	1.0	0.005	3		
018	341a018	SAMPLE	176363-006	S	97153	Water	06-DEC-2004 20:42	1.0	0.005	3		
019	341a019	SAMPLE	176363-003	S	97153	Water	06-DEC-2004 21:11	1.0	0.005	3		
020	341a020	SAMPLE	176268-012		97155	Soil	06-DEC-2004 21:41	1.0	0.1001	3		
021	341a021	SAMPLE	176268-009		97155	Soil	06-DEC-2004 22:10	1.0	0.09915	3		
022	341a022	SAMPLE	176268-015		97155	Soil	06-DEC-2004 22:40	1.0	0.0995	3		
023	341a023	SAMPLE	176341-001		97146	Soil	06-DEC-2004 23:09	50.0	0.1000	3		1:BUNKC:=5196.67
024	341a024	CCV	dsl				06-DEC-2004 23:38	1.0	1.0	3	11	
025	341a025	CCV	mo				07-DEC-2004 00:07	1.0	1.0	3	12	
026	341a026	X	ccv				07-DEC-2004 00:37	1.0			11	
027	341a027	SAMPLE	176268-010		97155	Soil	07-DEC-2004 01:06	2.0	0.09992	3		
028	341a028	SAMPLE	176268-013		97155	Soil	07-DEC-2004 01:36	1.0	0.09917	3		
029	341a029	SAMPLE	176268-017		97155	Soil	07-DEC-2004 02:06	5.0	0.09976	3		
030	341a030	SAMPLE	176268-002		97146	Soil	07-DEC-2004 02:35	1.0	0.09911	3		
031	341a031	SAMPLE	176268-014		97155	Soil	07-DEC-2004 03:05	3.0	0.0994	3		

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	341a032	SAMPLE	176402-001	97155	Soil	07-DEC-2004 03:35	5.0	0.1007	2	1	3	10:BUNKC:=37347.2	
033	341a033	SAMPLE	176268-001	97146	Soil	07-DEC-2004 04:04	2.0	0.1001			3		
034	341a034	SAMPLE	176402-002	97155	Soil	07-DEC-2004 04:34	10.0	0.1008			3	1:BUNKC:=15515.6	
035	341a035	SAMPLE	176268-011	97155	Soil	07-DEC-2004 05:03	20.0	0.1981			3		
036	341a036	SAMPLE	176268-016	97155	Soil	07-DEC-2004 05:33	1.0	0.09968			3		
037	341a037	CCV	dsl			07-DEC-2004 06:02	1.0	1.0			3	13	
038	341a038	CCV	mo			07-DEC-2004 06:32	1.0	1.0			3	12	
039	341a039	X	ccv			07-DEC-2004 07:01	1.0					13	

41

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 144505030 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 15-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	350b001	X	primer			15-DEC-2004 17:10	1.0						
002	350b002	X	ib			15-DEC-2004 17:37	1.0						
003	350b003	ICAL	dsl10			15-DEC-2004 18:05	1.0					1	
004	350b004	ICAL	dsl100			15-DEC-2004 18:33	1.0					2	
005	350b005	ICAL	dsl250			15-DEC-2004 19:01	1.0					3	
006	350b006	ICAL	dsl1000			15-DEC-2004 19:29	1.0					4	
007	350b007	ICAL	dsl2500			15-DEC-2004 19:58	1.0					5	
008	350b008	ICAL	dsl5000			15-DEC-2004 20:26	1.0					6	
009	350b009	X	ib			15-DEC-2004 20:54	1.0						
010	350b010	ICAL	mo50			15-DEC-2004 21:22	1.0					7	
011	350b011	ICAL	mo250			15-DEC-2004 21:50	1.0					8	
012	350b012	ICAL	mo500			15-DEC-2004 22:18	1.0					9	
013	350b013	ICAL	mo1000			15-DEC-2004 22:46	1.0					10	
014	350b014	ICAL	mo2500			15-DEC-2004 23:14	1.0					11	
015	350b015	ICAL	mo5000			15-DEC-2004 23:43	1.0					12	
016	350b016	X	ib			16-DEC-2004 00:11	1.0						
017	350b017	ICAL	hex5			16-DEC-2004 00:39	1.0					13	
018	350b018	ICAL	hex10			16-DEC-2004 01:07	1.0					14	
019	350b019	ICAL	hex25			16-DEC-2004 01:35	1.0					15	
020	350b020	ICAL	hex50			16-DEC-2004 02:04	1.0					16	
021	350b021	X	ib			16-DEC-2004 02:32	1.0						
022	350b022	ICV	dsl			16-DEC-2004 03:00	1.0					17	
023	350b023	CCV	dsl			16-DEC-2004 03:28	1.0					18	
024	350b024	CCV	mo			16-DEC-2004 03:56	1.0					19	
025	350b025	X	ib			16-DEC-2004 11:47	1.0						
026	350b026	ICAL	hex75			16-DEC-2004 12:15	1.0					20	
027	350b027	ICAL	dsl			16-DEC-2004 14:00	1.0					21	
028	350b028	X	ib			16-DEC-2004 14:27	1.0						
029	350b029	ICV	dsl			16-DEC-2004 14:55	1.0		3			17	

Stds used: 1=04WS2298 2=04WS2299 3=04WS2300 4=04WS2302 5=04WS2303 6=04WS2297 7=04WS2172 8=04WS2173 9=04WS2174 10=04WS2175 11=04WS2176 12=04WS2169 13=04WS2042 14=04WS2043 15=04WS2044 16=04WS2045 17=04WS2006 18=04WS2215 19=04WS2365 20=04WS2046 21=04WS2389

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114506134 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	351a001	X	ib			16-DEC-2004 11:34	1.0				
002	351a002	ICAL	hex5			16-DEC-2004 12:04	1.0	1.0		1	
003	351a003	ICAL	hex10			16-DEC-2004 12:33	1.0	1.0		2	
004	351a004	ICAL	hex25			16-DEC-2004 13:02	1.0	1.0		3	
005	351a005	ICAL	hex50			16-DEC-2004 13:31	1.0	1.0		4	
006	351a006	ICAL	hex75			16-DEC-2004 14:00	1.0	1.0		5	
007	351a007	X	ib			16-DEC-2004 15:12	1.0				
008	351a008	CCV	dsl			16-DEC-2004 15:41	1.0	1.0	3	6	
009	351a009	CCV	mo			16-DEC-2004 16:10	1.0	1.0	3	7	
010	351a010	SAMPLE	176613-016	97463	Soil	16-DEC-2004 16:44	1.0	0.0994	3		
011	351a011	SAMPLE	176613-014	97463	Soil	16-DEC-2004 17:13	1.0	0.1000	3		
012	351a012	SAMPLE	176613-011	97463	Soil	16-DEC-2004 17:42	1.0	0.09901	3		
013	351a013	SAMPLE	176613-010	97463	Soil	16-DEC-2004 18:12	1.0	0.09994	3		
014	351a014	SAMPLE	176613-008	97463	Soil	16-DEC-2004 18:41	1.0	0.09917	3		
015	351a015	SAMPLE	176613-006	97463	Soil	16-DEC-2004 19:10	1.0	0.09992	3		
016	351a016	SAMPLE	176613-004	97463	Soil	16-DEC-2004 19:39	1.0	0.09944	3		
017	351a017	SAMPLE	176613-003	97463	Soil	16-DEC-2004 20:08	1.0	0.09932	3		
018	351a018	SAMPLE	176613-001	97463	Soil	16-DEC-2004 20:38	1.0	0.09998	3		
019	351a019	LCS	QC276443 S	97521	Soil	16-DEC-2004 21:07	1.0	0.1002	3		
020	351a020	CCV	dsl			16-DEC-2004 21:36	1.0	1.0	3	8	
021	351a021	CCV	mo			16-DEC-2004 22:06	1.0	1.0	3	7	
022	351a022	X	ccv			16-DEC-2004 22:35	1.0			8	

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2215 7=04WS2365 8=04WS2207

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114524681 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 29-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	364a001	X	primer			29-DEC-2004 08:41	1.0						
002	364a002	X	ib			29-DEC-2004 09:10	1.0						
003	364a003	CCV	dsl			29-DEC-2004 09:39	1.0	1.0			3	1	
004	364a004	CCV	mo			29-DEC-2004 11:14	1.0	1.0			3	2	
005	364a005	MSS	176795-001	97831	Soil	29-DEC-2004 12:02	5.0	0.09927	7		3		1:BUNKC:=16797.1
006	364a006	SAMPLE	176795-002	97831	Soil	29-DEC-2004 12:31	3.0	0.1003			3		1:BUNKC:=13971.5
007	364a007	SAMPLE	176776-011 S	97829	Water	29-DEC-2004 13:20	5.0	0.005			3		1:BUNKC:=8162.13
008	364a008	CCV	dsl			29-DEC-2004 13:49	1.0	1.0			3	3	
009	364a009	CCV	mo			29-DEC-2004 14:18	1.0	1.0			3	2	
010	364a010	CCV	ker			29-DEC-2004 14:47	1.0	1.0			3	4	
011	364a011	BLANK	QC277872	97884	Soil	29-DEC-2004 15:17	1.0	0.09996	6		3		
012	364a012	SAMPLE	176737-029	97884	Soil	29-DEC-2004 15:46	1.0	0.0994			3		
013	364a013	SAMPLE	176737-020	97884	Soil	29-DEC-2004 16:15	1.0	0.09994			3		
014	364a014	SAMPLE	176737-024	97884	Soil	29-DEC-2004 16:44	100.0	0.09998			3		
015	364a015	SAMPLE	176737-021	97884	Soil	29-DEC-2004 17:14	2.0	0.0999			3		1:BUNKC:=7221.95
016	364a016	SAMPLE	176737-026	97884	Soil	29-DEC-2004 17:43	50.0	0.09982			3		1:BUNKC:=9182.27
017	364a017	SAMPLE	176737-028	97884	Soil	29-DEC-2004 18:12	2.0	0.09966	2	1	3		10:BUNKC:=41370.0
018	364a018	SAMPLE	176841-005	97884	Soil	29-DEC-2004 18:41	1.0	0.09948			3		
019	364a019	SAMPLE	176841-006	97884	Soil	29-DEC-2004 19:11	1.0	0.09986			3		
020	364a020	SAMPLE	176833-001	97884	Soil	29-DEC-2004 19:40	1.0	0.1002			3		
021	364a021	X	ib			29-DEC-2004 20:09	1.0						
022	364a022	CCV	dsl			29-DEC-2004 20:38	1.0	1.0			3	5	
023	364a023	CCV	mo			29-DEC-2004 21:08	1.0	1.0			3	2	
024	364a024	X	ccv			29-DEC-2004 21:37	1.0					5	
025	364a025	CCV	ker			29-DEC-2004 22:06	1.0	1.0			3	4	
026	364a026	BLANK	QC277664	97831	Soil	29-DEC-2004 22:36	1.0	0.1007	6		3		
027	364a027	LCS	QC277665	97831	Soil	29-DEC-2004 23:05	1.0	0.1002			3		
028	364a028	MS	QC277874	97884	Soil	29-DEC-2004 23:34	1.0	0.09962			3		
029	364a029	MSD	QC277875	97884	Soil	30-DEC-2004 00:04	1.0	0.09954			3		
030	364a030	BLANK	QC277815 S	97868	Water	30-DEC-2004 00:33	1.0	0.005	6		3		
031	364a031	LCS	QC277816 S	97868	Water	30-DEC-2004 01:03	1.0	0.005		2	3		

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2027 5=04WS2258 6=04WS2251 7=04WS2252 8=04WS2253 9=04WS2254 10=04WS2255 11=04WS2256 12=04WS2272

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114524681 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 29-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
032	364a032	MS	QC277817 S	97868	Water	30-DEC-2004 01:32	1.0	0.005		3		
033	364a033	MSD	QC277818 S	97868	Water	30-DEC-2004 02:01	1.0	0.005		3		
034	364a034	MS	QC277819 S	97868	Water	30-DEC-2004 02:31	1.0	0.005		3		
035	364a035	MSD	QC277820 S	97868	Water	30-DEC-2004 03:00	1.0	0.005		3		
036	364a036	CCV	dsl			30-DEC-2004 03:29	1.0	1.0		3	1	
037	364a037	CCV	mo			30-DEC-2004 03:59	1.0	1.0		3	2	
038	364a038	X	ccv			30-DEC-2004 04:28	1.0				1	
039	364a039	SAMPLE	176726-003 S	97868	Water	30-DEC-2004 04:57	1.0	0.005		3		
040	364a040	MSS	176726-004 S	97868	Water	30-DEC-2004 05:26	1.0	0.005	6	3		
041	364a041	SAMPLE	176726-005 S	97868	Water	30-DEC-2004 05:56	1.0	0.005		3		
042	364a042	SAMPLE	176726-006 S	97868	Water	30-DEC-2004 06:25	1.0	0.005		3		
043	364a043	SAMPLE	176726-007 S	97868	Water	30-DEC-2004 06:54	1.0	0.005		3		
044	364a044	SAMPLE	176726-008 S	97868	Water	30-DEC-2004 07:24	1.0	0.005		3		
045	364a045	SAMPLE	176728-001 S	97868	Water	30-DEC-2004 07:53	1.0	0.005		3		
046	364a046	SAMPLE	176728-002 S	97868	Water	30-DEC-2004 08:22	1.0	0.005		3		
047	364a047	SAMPLE	176731-001 S	97868	Water	30-DEC-2004 08:51	1.0	0.005		3		
048	364a048	SAMPLE	176731-002 S	97868	Water	30-DEC-2004 09:20	1.0	0.005		3		
049	364a049	CCV	dsl			30-DEC-2004 09:49	1.0	1.0		3	3	
050	364a050	CCV	mo			30-DEC-2004 10:19	1.0	1.0		3	2	
051	364a051	X	ccv			30-DEC-2004 10:48	1.0				3	
052	364a052	SAMPLE	176731-003 S	97868	Water	30-DEC-2004 11:17	1.0	0.005		3		
053	364a053	MSS	176731-004 S	97868	Water	30-DEC-2004 11:47	1.0	0.005	7	3		
054	364a054	SAMPLE	176731-005 S	97868	Water	30-DEC-2004 12:16	1.0	0.005		3		
055	364a055	SAMPLE	176734-001 S	97868	Water	30-DEC-2004 12:45	1.0	0.005		3		
056	364a056	SAMPLE	176734-002 S	97868	Water	30-DEC-2004 13:15	1.0	0.005	1	3		1:HXCS=83.3836
057	364a057	SAMPLE	176734-003 S	97868	Water	30-DEC-2004 13:44	1.0	0.005		3		
058	364a058	SAMPLE	176841-007	97868	Water	30-DEC-2004 14:13	1.0	0.005		3		
059	364a059	SAMPLE	176841-009	97868	Water	30-DEC-2004 14:43	1.0	0.005		3		
060	364a060	SAMPLE	176841-011	97868	Water	30-DEC-2004 15:12	1.0	0.005		3		
061	364a061	CCV	dsl			30-DEC-2004 15:42	1.0	1.0		3	5	
062	364a062	CCV	mo			30-DEC-2004 16:11	1.0	1.0		3	2	

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2027 5=04WS2258 6=04WS2251 7=04WS2252 8=04WS2253 9=04WS2254 10=04WS2255 11=04WS2256 12=04WS2272

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114524681 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 29-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
063	364a063	X	ib			30-DEC-2004 16:45	1.0				
064	364a064	ICAL	jet10			30-DEC-2004 17:14	1.0	1.0		6	
065	364a065	ICAL	jet100			30-DEC-2004 17:43	1.0	1.0		7	
066	364a066	ICAL	jet500			30-DEC-2004 18:13	1.0	1.0		8	
067	364a067	ICAL	jet1000			30-DEC-2004 18:43	1.0	1.0		9	
068	364a068	ICAL	jet2000			30-DEC-2004 19:12	1.0	1.0		10	
069	364a069	ICAL	jet3000			30-DEC-2004 19:41	1.0	1.0		11	
070	364a070	X	ib			30-DEC-2004 20:10	1.0				
071	364a071	CCV	jet			30-DEC-2004 20:40	1.0	1.0	3	12	

46

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2027 5=04WS2258 6=04WS2251 7=04WS2252 8=04WS2253 9=04WS2254 10=04WS2255 11=04WS2256 12=04WS2272

SEQUENCE SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 145004858 Instrument: GC13B Gas Chromatograph #13 (Channel B) TEH Begun: 03-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	003b001	X	primer			03-JAN-2005 08:58	1.0					
002	003b002	X	ib			03-JAN-2005 09:26	1.0					
003	003b003	CCV	dsl			03-JAN-2005 09:54	1.0	1.0		3	1	
004	003b004	CCV	mo			03-JAN-2005 10:22	1.0	1.0	1	3	2	
005	003b005	CCV	ker			03-JAN-2005 10:50	1.0	1.0		3	3	
006	003b006	LCS	QC277816 S	97868	Water	03-JAN-2005 11:25	1.0	0.005		3		
007	003b007	SAMPLE	176737-028	97884	Soil	03-JAN-2005 11:53	10.0	0.09966		3		
008	003b008	CCV	dsl			03-JAN-2005 12:21	1.0	1.0		3	4	
009	003b009	CCV	mo			03-JAN-2005 13:12	1.0	1.0	1	3	2	

Stds used: 1=04WS2215 2=04WS2365 3=04WS2027 4=04WS2406

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 TEHM Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	P	Analyzed	IDF	DSL:	MO:2	HXCS	
176728-001	GC11A	S	12/30/04 07:53	1.0	+	+	+	
176728-002	GC11A	S	12/30/04 08:22	1.0	+	+	+	
QC277815	GC11A	S	12/30/04 00:33	1.0	+	+	+	
QC277816	GC11A	S	12/30/04 01:03	1.0				
QC277816	GC15B	S	12/30/04 13:01	1.0				
QC277816	GC13B	S	12/30/04 20:53	1.0				
QC277816	GC13B	S	01/03/05 11:25	1.0	+		+	
QC277817	GC11A	S	12/30/04 01:32	1.0	+		+	
QC277818	GC11A	S	12/30/04 02:01	1.0	+		+	
QC277819	GC11A	S	12/30/04 02:31	1.0	+		+	
QC277820	GC11A	S	12/30/04 03:00	1.0	+		+	

Curtis & Tompkins Laboratories **Sample Preparation Summary** **30-DEC-2004 09:24**

Batch Number : 97868
Date Extracted: 28-DEC-2004
Extracted by : Amy Silverberg
Prep Method : 3520

Analysis : N/A
Bgroup : TEH
Units : ml
Clean-up :

Spike #1 ID : 04WS2345B
Spike #2 ID : 04WS2342B
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176726-003			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176726-004			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	mss
176726-005			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176726-006			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176726-007			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5	0		TEHM	3630C	
176726-008			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5	0		TEHM	3630C	
176728-001			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176728-002			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176731-001			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176731-002			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	5	.5	0		TEHM	3630C	
176731-003			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176731-004			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	mss
176731-005			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176734-001			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176734-002			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176734-003			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	5	.5	0		TEHM	3630C	
176841-007			4LEAF, Inc.	Water	500	ml	2.5	0.005000	1	7	.5	0		TEH		
176841-009			4LEAF, Inc.	Water	500	ml	2.5	0.005000	1	7	.5	0		TEH		
176841-011			4LEAF, Inc.	Water	500	ml	2.5	0.005000	1	7	.5	0		TEH		
QC277815	MB			Water	500	ml	2.5	0.005000	1		.5	0		TEH	3630C	
QC277816	LCS			Water	500	ml	2.5	0.005000	1		.5	.5		TEH	3630C	
QC277817	MS	of 176726-004		Water	500	ml	2.5	0.005000	1	8	.5	.5		TEH	3630C	
QC277818	MSD	of 176726-004		Water	500	ml	2.5	0.005000	1	8	.5	.5		TEH	3630C	
QC277819	MS	of 176731-004		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH	3630C	
QC277820	MSD	of 176731-004		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH	3630C	

FIXED IN LIMS

LV. 12/30/04

Prep Chemist: _____ Reviewed By: _____ Date: _____

Relinquished By: _____ Received By: _____ Date: _____

Curtis & Tompkins Laboratories Sample Preparation Summary 29-DEC-2004 17:52

Batch Number : 97868
Date Extracted: 28-DEC-2004
Extracted by : Amy Silverberg
Prep Method : 3520

Analysis : N/A
Bgroup : TEH
Units : ml
Clean-up :

Spike #1 ID : 04WS2345B
Spike #2 ID : 04WS2342B
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176726-003			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176726-004			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	mss
176726-005			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176726-006			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176726-007			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5	0		TEHM	3630C	
176726-008			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	6	.5	0		TEHM	3630C	
176728-001			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176728-002			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176731-001			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176731-002			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	5	.5	0		TEHM	3630C	
176731-003			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176731-004			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	mss
176731-005			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176734-001			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176734-002			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	7	.5	0		TEHM	3630C	
176734-003			Treadwell & Rollo	Water	500	ml	2.5	0.005000	1	5	.5	0		TEHM	3630C	
176841-007			4LEAF, Inc.	Water	500	ml	2.5	0.005000	1	7	.5	0		TEH		
176841-009			4LEAF, Inc.	Water	500	ml	2.5	0.005000	1	7	.5	0		TEH		
176841-011			4LEAF, Inc.	Water	500	ml	2.5	0.005000	1	7	.5	0		TEH		
QC277815	MB			Water	500	ml	2.5	0.005000	1		.5	0		TEH	3630C	
QC277816	LCS			Water	500	ml	2.5	0.005000	1		.5	0		TEH	3630C	
QC277817	MS	of 176726-004		Water	500	ml	2.5	0.005000	1	8	.5	.5		TEH	3630C	
QC277818	MSD	of 176726-004		Water	500	ml	2.5	0.005000	1	8	.5	.5		TEH	3630C	
QC277819	MS	of 176731-004		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH	3630C	
QC277820	MSD	of 176731-004		Water	500	ml	2.5	0.005000	1	6	.5	.5		TEH	3630C	

Prep Chemist: [signature] Reviewed By: [signature] Date: 12/29/04

Relinquished By: [signature] Received By: [signature] Date: 12-30-04

Curtis & Tompkins, Ltd

TEH WATER PREP LOG

BK2010

Page 70

LIMS Batch No: 97868
LIMS Analysis: TEH/M
Extracted by: AMS
Date Extracted: 12/28/04

Extraction Method:
☐ mod. EPA 3510 sep. funnel
☑ mod. EPA 3520 cont. L/L
☐ _____

Cleanup Method (if needed):
☑ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Volume of Sample (mL)	Sample pH	Final Volume (mL)	Cleanup (x if needed)	Comments
176726-003 H	500	7	5.0	X	
-004 T					MSS
-005 I					
-006 H					
-007 I		6			
-008 I					
176728-001 G		7			
-002 G					
176731-001 I					
-002 F		5			
-003 I		7			
-004 Y					MSS
-005 I					
176734-001 I					
-002 H					
-003 Y		5			
176841-007 A		7			
-009 A					
-011 D					
MB QC277815				X	
LCS 16					
MS 17		8			176726-004 U,T
MSD 18					
MS 19		6			176731-004 Z
MSD 20					

Mfg & Lot# / LIMS # / Time	Date/ Initials
04WS2345B	AMS 12/28/04
04WS2342B	
A30036	
EM44302	
1500	
0900	AMS 12/29/04
N/A	
EM44135439	
✓	

0.5 mL of TEH_SURR was added to all samples
0.5 mL of TEH_SP was added to all spikes
pH of all samples adjusted to pH ≤ 2 with H_2SO_4
☐ Samples were continually extracted about 450 mL of CH_2Cl_2
Extraction Start Time:
Extraction End Time:
☐ Samples were extracted 3 times with 60 mL of CH_2Cl_2
Extracts filtered through baked, CH2Cl2-rinsed granular Na2SO4
Concentrated to volumes as noted above

Contined from Page
Continued on Page

Extraction Chemist Date

Reviewed by Date

Curtis & Tompkins, Ltd.

Silica Gel Cleanup

EPA 3630c

Prep Chemist: AMS

Cleanup Date: 12/29/04

Benchbook # **BK 2028**

Page 67

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
176726-003	97868	1.0	1.0	
-004				MSS
-005				
-006				
-007				
-008		0.5	0.5	
176728-001		1.0	1.0	
-002				
176731-001				
-002				
-003				
-004				
-005				MSS
176734-001				
-002				
-003				
MB QC277815				
LCS 16				
MS 17				
MSD 18				176726-004
MS 19				
MSD 20				176731-004
176814-007	97831			
-008				
176786-035				
				AMS 12/29/04

☑ Extracts were cleaned up using C&T assembled 1.0 g columns

☐ Extracts were cleaned up using ____ g cartridges

Extracts were eluted with 4.0 mL CH_2Cl_2

Concentrated to volumes as noted above

Mfg & Lot # / Time / Program	Initials / Date
JTBV33332	AMS 12/29/04
N/A	
EM44302	
✓	

Afilvenberg 12/29/04

Extraction Chemist / Date

Continued from page ____

Continued on page ____

Cindy Weex 12/29/04

Reviewed by / Date

Prep Chemist: AMS
Cleanup Date: 12/30/04

Benchbook # BK 2028
Page 69

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
LCS QC277816	97868	0.5	0.5	
				AMS 12/30/04

	Mfg & Lot # / Time / Program	Initials / Date
☒ Extracts were cleaned up using C&T assembled 1.0 g columns	JTB V33332	AMS 12/30/04
☐ Extracts were cleaned up using ____ g cartridges	N/A	
Extracts were eluted with 4.5 mL CH_2Cl_2	EM44302	
Concentrated to volumes as noted above	✓	✓

Extraction Chemist / Date: 12/30/04

Continued from page ____
Continued on page 53

Reviewed by / Date: 12/30/04

Curtis & Tompkins Laboratories
MDL Summary for EPA 8015B Water 3520

Analyte	Units	GC11A	GC13B	GC15B	GC17A
JP-5 C10-C16	ug/L	07/15/03 19	07/10/03 17	07/09/03 33	07/10/03 34
Diesel C10-C20	ug/L		01/05/05 16	01/08/05 13	01/05/05 19
Diesel C10-C22	ug/L	01/05/05 20	01/05/05 16	01/08/05 13	01/05/05 19
Diesel C10-C24	ug/L	01/05/05 21	01/05/05 16	01/08/05 13	01/05/05 19
Diesel C10-C28	ug/L	01/05/05 18	01/05/05 16	01/08/05 12	01/05/05 17
Diesel C12-C28	ug/L		01/05/05 17		
Diesel C12-C36	ug/L	01/05/05 13	01/05/05 17		
Diesel C12-C32	ug/L			01/08/05 11	01/05/05 15
Diesel C12-C24	ug/L	01/05/05 16	01/05/05 17	01/08/05 12	01/05/05 19
Diesel C12-C22	ug/L	01/05/05 16	01/05/05 17	01/08/05 12	01/05/05 18
Diesel C10-C40	ug/L	03/09/03 37		03/15/03 46	
Motor Oil C20-C36	ug/L	04/03/04 220	04/02/04 120	04/09/04 120	04/02/04 86
Motor Oil C22-C36	ug/L	04/03/04 210	04/02/04 120	04/09/04 120	04/02/04 84
Motor Oil C24-C36	ug/L	04/03/04 170	04/02/04 120	04/09/04 110	04/02/04 78
Motor Oil C22-C32	ug/L	04/03/04 200	04/02/04 140	04/09/04 120	04/02/04 95
Hexacosane	ug/L	08/15/03 11	08/15/03 21	08/14/03 5.4	08/22/03 3.8

VOLATILE ORGANIC COMPOUNDS

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Field ID:	TB0412173A	Batch#:	97642
Lab ID:	176728-004	Sampled:	12/17/04
Matrix:	Water	Received:	12/17/04
Units:	ug/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	118	80-120
1,2-Dichloroethane-d4	111	76-114
Toluene-d8	98	88-110
Bromofluorobenzene	97	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276923	Batch#:	97642
Matrix:	Water	Analyzed:	12/20/04
Units:	ug/L		

Analyte	Result	RL	MDL
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Acetone	ND	10	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	4.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
Chloroform	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	0.04
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
Chlorobenzene	ND	0.5	
Ethylbenzene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
1,1,2,2-Tetrachloroethane	ND	0.5	
Xylene (total)	ND	1.0	

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	112	76-114
Toluene-d8	99	88-110
Bromofluorobenzene	101	86-115

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2893.04.51	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	97642
Units:	ug/L	Analyzed:	12/20/04
Diln Fac:	1.000		

Type: BS Lab ID: QC276920

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	25.97	104	65-135
Benzene	25.00	26.55	106	65-135
Trichloroethene	25.00	25.64	103	65-135
Toluene	25.00	26.16	105	65-135
Chlorobenzene	25.00	26.22	105	65-135

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	101	88-110
Bromofluorobenzene	97	86-115

Type: BSD Lab ID: QC276921

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	27.28	109	65-135	5	35
Benzene	25.00	26.23	105	65-135	1	35
Trichloroethene	25.00	26.12	104	65-135	2	35
Toluene	25.00	26.38	106	65-135	1	35
Chlorobenzene	25.00	26.15	105	65-135	0	35

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	114	76-114
Toluene-d8	103	88-110
Bromofluorobenzene	98	86-115

RPD= Relative Percent Difference

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\120704.b\EL708.D

Date : 07-DEC-2004 14:14

Client ID: bfb tune std

Sample Info: BFB,04W81238

Volume Injected (uL): 1.0

Column phase:

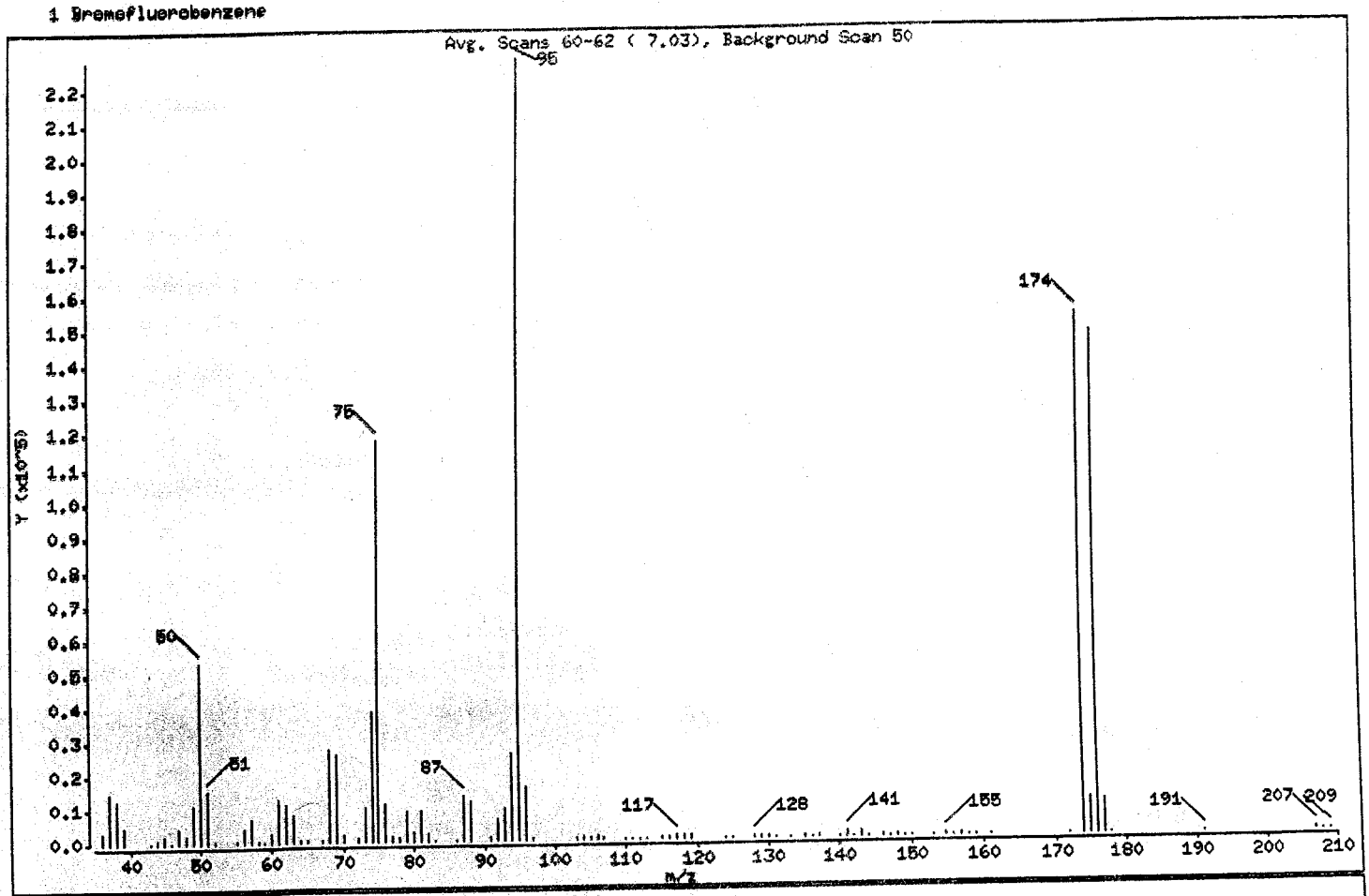
1 Bromofluorobenzene

Instrument: MSVOA05.i

Operator: LW

Column diameter: 2.00

ICAL



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.11
75	30.00 - 60.00% of mass 95	51.58
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	66.89
175	5.00 - 9.00% of mass 174	4.66 (6.97)
176	95.01 - 100.99% of mass 174	64.50 (96.43)
177	5.00 - 9.00% of mass 176	4.30 (6.67)

12/08/04

LW 12-7-04

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\122004.b\ELK02.D

Date : 20-DEC-2004 09:04

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,04WS1238

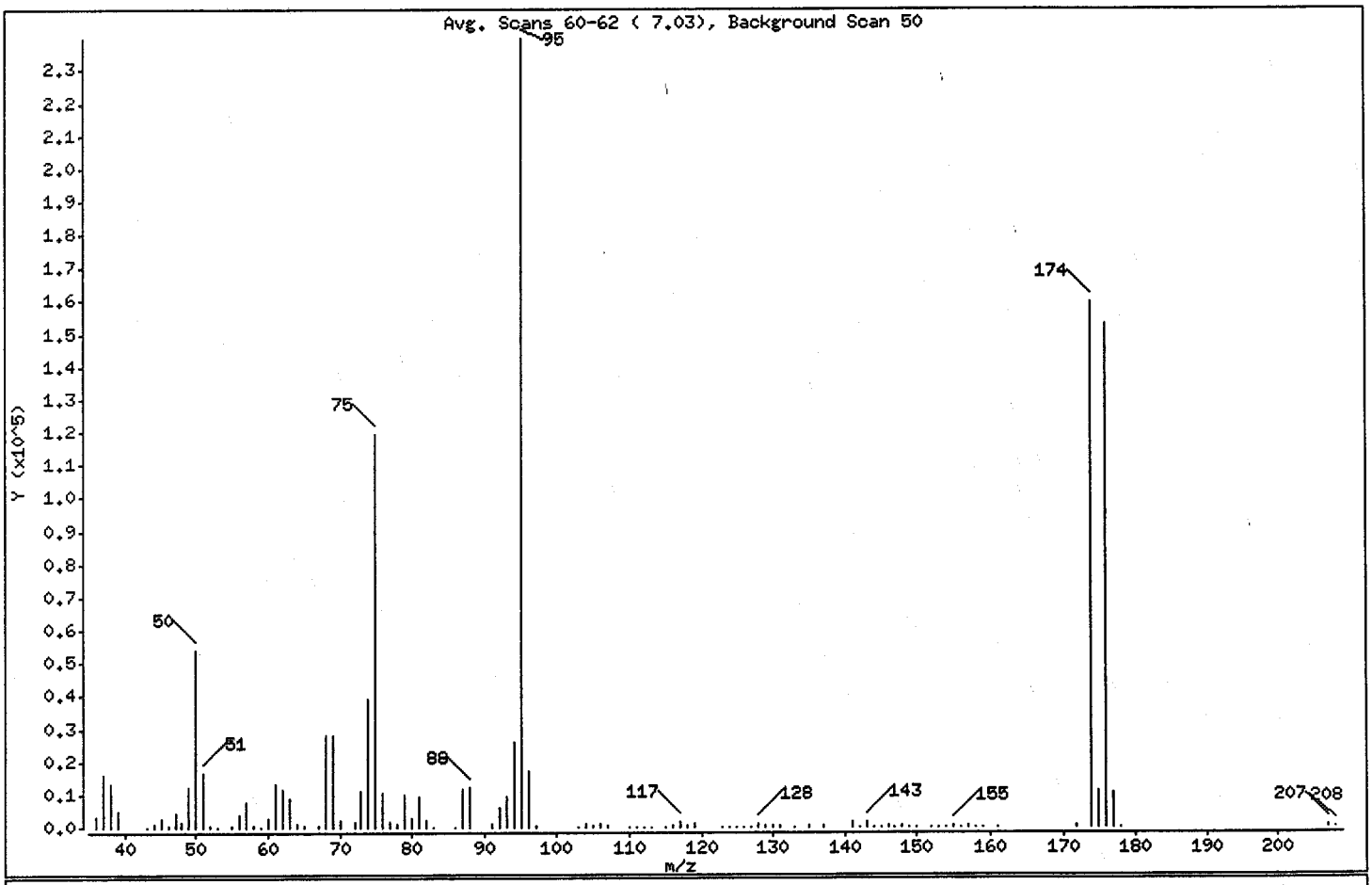
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.46
75	30.00 - 60.00% of mass 95	49.89
96	5.00 - 9.00% of mass 95	7.02
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	66.63
175	5.00 - 9.00% of mass 174	4.69 (7.04)
176	95.01 - 100.99% of mass 174	63.99 (96.03)
177	5.00 - 9.00% of mass 176	4.38 (6.84)

a
12/21

LW 12-21-04

Data File: \\GCMSSERVER\DD\chem\MSVOA05.i\122004.b\ELK11.D

Date : 20-DEC-2004 14:23

Client ID: bfb tune std

Instrument: MSVOA05.i

Sample Info: BFB,04WS1238

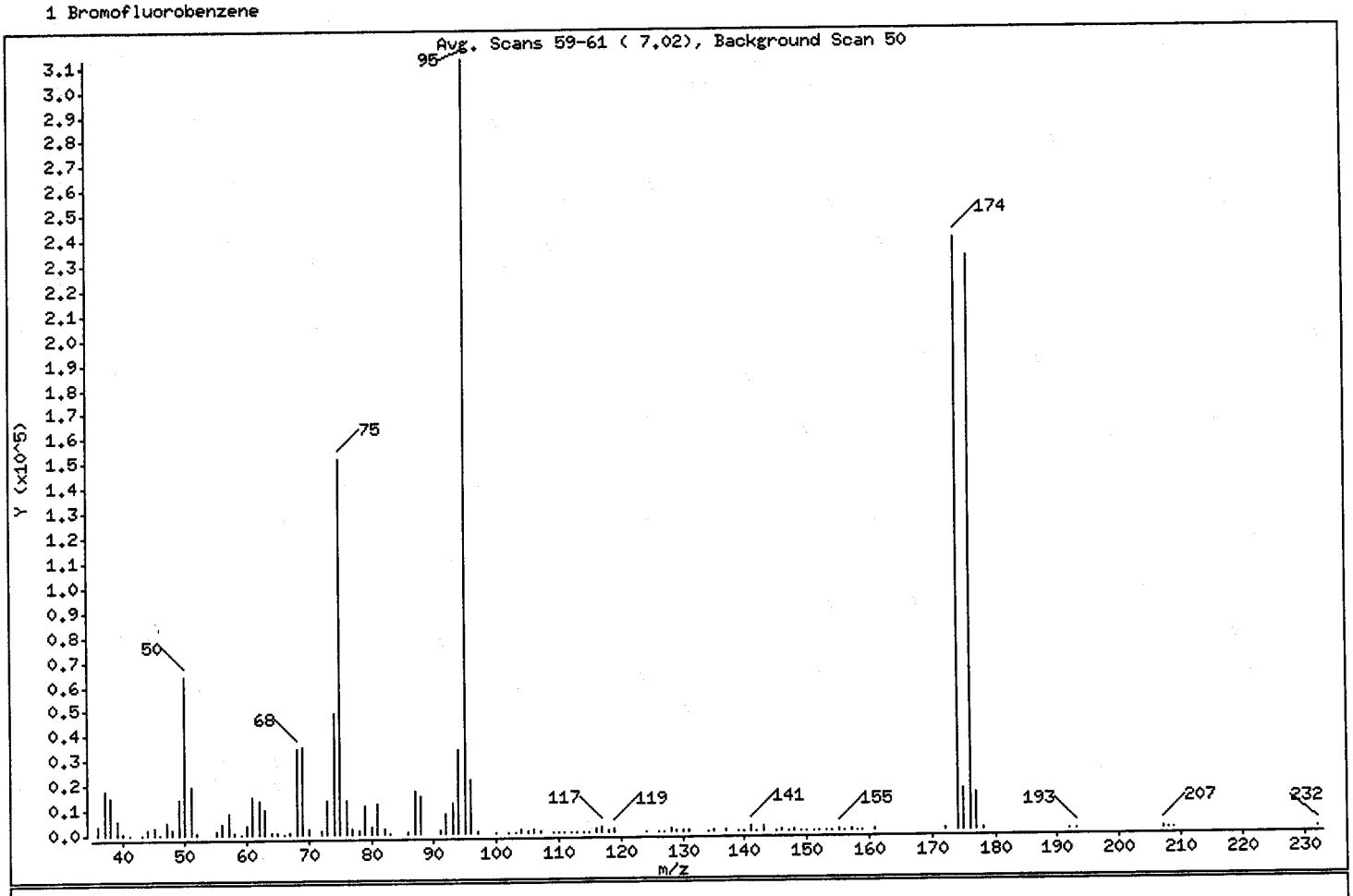
Volume Injected (uL): 1.0

Operator: LW

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.46
75	30.00 - 60.00% of mass 95	48.60
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	76.45
175	5.00 - 9.00% of mass 174	5.23 (6.84)
176	95.01 - 100.99% of mass 174	74.23 (97.09)
177	5.00 - 9.00% of mass 176	4.78 (6.44)

LW 12-21-04

12/24

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA05 HP GCMS VOA 05 Reviewed By:
Calnum: 444493014001 Name: 826GOX5 Type: WATER Date: 07-DEC-2004 15:35 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	el711	444493014011	1.0/0.5 PPB	07-DEC-2004 15:35	04WS2168 (500000X), 04SS408 (500000X), 04WS2204 (1000000X), 04WS2096 (5000X)
2	el712	444493014012	5 PPB	07-DEC-2004 16:06	04WS2168 (50000X), 04SS408 (100000X), 04WS2204 (200000X), 04WS2096 (5000X)
3	el713	444493014013	10 PPB	07-DEC-2004 16:38	04WS2168 (25000X), 04SS408 (50000X), 04WS2204 (100000X), 04WS2096 (5000X)
4	el714	444493014014	20 PPB	07-DEC-2004 17:10	04WS2168 (12500X), 04SS408 (25000X), 04WS2204 (50000X), 04WS2096 (5000X)
5	el715	444493014015	50 PPB	07-DEC-2004 17:42	04WS2168 (5000X), 04SS408 (10000X), 04WS2204 (20000X), 04WS2096 (5000X)
6	el716	444493014016	75 PPB	07-DEC-2004 18:14	04WS2168 (3333X), 04SS408 (6667X), 04WS2204 (13333X), 04WS2096 (5000X)
7	el717	444493014017	100 PPB	07-DEC-2004 18:45	04WS2168 (2500X), 04SS408 (5000X), 04WS2204 (10000X), 04WS2096 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Freon 12	0.7788m	1.0150m	1.0545m	1.0481m	1.0895m	1.0232m	0.9151m	AVRG	R		1.010933		ug/L	0.9892	11	0.0500	0.99	15	
Chloromethane	1.4751m	1.5604	1.3986	1.4139	1.4216	1.3322	1.1928	AVRG	R		0.714680		ug/L	1.3992	8	0.1000	0.99	15	
Vinyl Chloride	1.1652m	1.1787m	1.1646	1.1410	1.1879	1.1391	1.0304	AVRG	R		0.874246		ug/L	1.1438	5	0.0500	0.99	15	
Bromomethane	0.9443m	0.7796	0.7204	0.7123	0.7363	0.6940	0.6393	AVRG	R		1.339394		ug/L	0.7466	13	0.0500	0.99	15	
Chloroethane	0.6151	0.6265	0.6086	0.5563	0.5945	0.5492	0.5003	AVRG	R		1.728131		ug/L	0.5787	8	0.0500	0.99	15	
Trichlorofluoromethane	1.2345	1.2466	1.2396	1.2126	1.2613	1.1713	1.0796	AVRG	R		0.828840		ug/L	1.2065	5	0.0500	0.99	15	
Acetone		0.4308	0.4071	0.4060	0.3613	0.2965		AVRG	R		2.629121		ug/L	0.3804	14	0.0500	0.99	15	
Freon 113	0.5820	0.5805	0.7098	0.6718	0.6050	0.6097	0.6181	AVRG	R		1.599256		ug/L	0.6253	8	0.0500	0.99	15	
1,1-Dichloroethene	0.9461m	0.5674	0.6376	0.6008	0.5850	0.5718	0.5657	QUAD	R	-0.22903	1.663256	0.001959	ug/L	0.6392	1.000	0.0500	0.99	15	
Methylene Chloride		0.9333	0.8906	0.8461	0.8289	0.7399	0.7067	AVRG	R		1.213238		ug/L	0.8242	11	0.0500	0.99	15	
Carbon Disulfide	2.8377	2.5838	2.8262	2.6981	2.5361	2.4004	2.2787	AVRG	R		0.385443		ug/L	2.5944	8	0.0500	0.99	15	
MTBE	2.5173m	2.2078	2.3434	2.3024	2.2487	2.1231	2.0215	AVRG	R		0.444046		ug/L	2.2520	7	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.9641	0.6497	0.7664	0.6826	0.6330	0.6406	0.6177	QUAD	R	-0.43746	1.486004	0.002184	ug/L	0.7077	1.000	0.0500	0.99	15	
Vinyl Acetate		1.7858	1.9384	1.9182	1.8731	1.7028	1.6498	AVRG	R		0.552073		ug/L	1.8114	7	0.0500	0.99	15	
1,1-Dichloroethane	1.2468	1.4388	1.5007	1.3597	1.3502	1.2533	1.2272	AVRG	R		0.746529		ug/L	1.3395	8	0.1000	0.99	15	
2-Butanone		0.5868	0.5527	0.5544	0.5494	0.4793	0.4500	AVRG	R		1.891165		ug/L	0.5288	10	0.0500	0.99	15	
2,2-Dichloropropane	0.8265	0.9601	1.0165	0.9398	0.9369	0.8965	0.8607	AVRG	R		1.087447		ug/L	0.9196	7	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.8823	0.6522	0.6884	0.6657	0.6969	0.6595	0.6518	AVRG	R		1.429504		ug/L	0.6995	12	0.0500	0.99	15	

1 CAL-OK 1 CV-Carbon Disulfide ↓, 2-clere ↓, Cyclohexanone ↓ (USACE chloromethane ↓)

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

LW 12-8-04

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA05 HP GCMS VOA 05 Reviewed By:
Calnum: 444493014001 Name: 826GOX5 Type: WATER Date: 07-DEC-2004 15:35 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	1.3257	1.4122	1.3782	1.3423	1.2969	1.2465	1.1582	AVRG	R		0.764195		ug/L	1.3086	7	0.0500	0.99	15	
Bromochloromethane	0.2973	0.3505	0.3619	0.3627	0.3635	0.3563	0.3476	AVRG	R		2.869040		ug/L	0.3485	7	0.0500	0.99	15	
1,1,1-Trichloroethane	1.0500	0.9117	1.0289	0.9378	0.9251	0.8950	0.8826	AVRG	R		1.055639		ug/L	0.9473	7	0.0500	0.99	15	
1,1-Dichloropropene	0.3751	0.4244	0.4695	0.4753	0.4812	0.5171	0.5038	AVRG	R		2.156314		ug/L	0.4638	11	0.0500	0.99	15	
Carbon Tetrachloride	0.3944	0.3858	0.4484	0.4223	0.4143	0.4392	0.4350	AVRG	R		2.381404		ug/L	0.4199	6	0.0500	0.99	15	
1,2-Dichloroethane	0.4575	0.6176	0.6384	0.5970	0.5820	0.5794	0.5551	AVRG	R		1.738266		ug/L	0.5753	10	0.0500	0.99	15	
Benzene	1.3751	1.4033	1.4479	1.4117	1.3980	1.3995	1.3851	AVRG	R		0.712785		ug/L	1.4029	2	0.0500	0.99	15	
Trichloroethene	0.2309	0.3199	0.3403	0.3481	0.3420	0.3547	0.3515	AVRG	R		3.060386		ug/L	0.3268	13	0.0500	0.99	15	
1,2-Dichloropropane	0.3888	0.3750	0.4256	0.4311	0.4130	0.4219	0.4208	AVRG	R		2.433784		ug/L	0.4109	5	0.0500	0.99	15	
Bromodichloromethane	0.4347	0.5285	0.5303	0.5245	0.5357	0.5265	0.5239	AVRG	R		1.942266		ug/L	0.5149	7	0.0500	0.99	15	
Dibromomethane	0.2070	0.3126	0.3309	0.3037	0.2985	0.2987	0.2984	AVRG	R		3.414950		ug/L	0.2928	14	0.0500	0.99	15	
2-Chloroethylvinylether	0.1736m	0.2122	0.2144	0.2505	0.2787	0.2909	0.2800	LINR	R	1.566173	3.466085		ug/L	0.2429	0.999	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.4614	0.5247	0.5603	0.5296	0.5475	0.5183	AVRG	R		1.909782		ug/L	0.5236	7	0.0500	0.99	15	
Tetramethyl THF	0.7000	0.7938	0.8870	0.9086	0.9525	0.8832	0.8448	AVRG	R		1.172539		ug/L	0.8529	10	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4638	0.5888	0.6158	0.6133	0.6409	0.6492	0.6355	AVRG	R		1.663798		ug/L	0.6010	11	0.0500	0.99	15	
Toluene	0.6337	0.7234	0.7873	0.7448	0.7834	0.7946	0.8054	AVRG	R		1.327587		ug/L	0.7532	8	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.4909	0.5116	0.5652	0.5930	0.6291	0.6136	0.6139	AVRG	R		1.742411		ug/L	0.5739	9	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1914	0.1912	0.2132	0.2097	0.2143	0.2121	0.2085	AVRG	R		4.859464		ug/L	0.2058	5	0.0500	0.99	15	
2-Hexanone		0.3607	0.4054	0.4267	0.4254	0.4051	0.3996	AVRG	R		2.476297		ug/L	0.4038	6	0.0500	0.99	15	
1,3-Dichloropropane	0.5834	0.7082	0.7527	0.7426	0.7189	0.6834	0.6935	AVRG	R		1.433636		ug/L	0.6975	8	0.0500	0.99	15	
Tetrachloroethene	0.2011	0.2697	0.3141	0.3125	0.3071	0.3285	0.3458	QUAD	R	-0.17073	3.467898	-0.01651	ug/L	0.2970	1.000	0.0500	0.99	15	
Dibromochloromethane	0.3749	0.3880	0.4009	0.4310	0.4390	0.4346	0.4588	AVRG	R		2.391471		ug/L	0.4182	7	0.0500	0.99	15	
1,2-Dibromoethane	0.2937	0.3834	0.3769	0.3839	0.3938	0.3999	0.4309	AVRG	R		2.629054		ug/L	0.3804	11	0.0500	0.99	15	
Chlorobenzene	0.7922	0.8919	0.9061	0.9187	0.9257	0.9106	0.9137	AVRG	R		1.118440		ug/L	0.8941	5	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3186	0.3329	0.3422	0.3518	0.3490	0.3597	0.3742	AVRG	R		2.882584		ug/L	0.3469	5	0.0500	0.99	15	
Ethylbenzene	1.3272	1.5308	1.5983	1.6820	1.6585	1.7090	1.7451	AVRG	R		0.622171		ug/L	1.6073	9	0.0500	0.99	15	
m,p-Xylenes	0.3736	0.5020	0.5493	0.5660	0.6076	0.6091	0.6256	QUAD	R	1.158984	1.700389	-0.00088	ug/L	0.5476	1.000	0.0500	0.99	15	
o-Xylene	0.3071	0.4381	0.5206	0.5543	0.6104	0.6025	0.6455	QUAD	R	0.672906	1.769406	-0.00348	ug/L	0.5255	0.999	0.0500	0.99	15	
Styrene	0.5516	0.7899	0.9216	1.0150	1.1008	1.0737	1.1628	QUAD	R	0.586308	0.990708	-0.00113	ug/L	0.9451	0.999	0.0500	0.99	15	
Bromoform	0.1920m	0.2702	0.2753	0.3001	0.3169	0.3256	0.3488	QUAD	R	0.307041	3.423247	-0.01603	ug/L	0.2898	1.000	0.1000	0.99	15	
Isopropylbenzene	1.6406	2.0041	2.3686	2.4022	2.4207	2.5454	2.5678	AVRG	R		0.438890		ug/L	2.2785	15	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA05 HP GCMS VOA 05 Reviewed By:
Calnum: 444493014001 Name: 826GOX5 Type: WATER Date: 07-DEC-2004 15:35 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MinRF	MnR^2	MxRSD	Flags
1,1,2,2-Tetrachloroethane	1.2374	1.2504	1.1941	1.1784	1.0983	1.1240	1.0968	AVRG	R		0.855810		ug/L	1.1685	5	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1752	0.2809	0.2972	0.2721	0.2691	0.2689	0.2720	AVRG	R		3.813915		ug/L	0.2622	15	0.0500	0.99	15	
Propylbenzene	2.7012	3.2919	3.6183	3.5549	3.5510	3.6354	3.5450	AVRG	R		0.292915		ug/L	3.4140	10	0.0500	0.99	15	
Bromobenzene	0.4892	0.7089	0.6847	0.6729	0.7086	0.7398	0.7526	AVRG	R		1.471656		ug/L	0.6795	13	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.3373	1.9767	2.1163	2.1548	2.2334	2.1991	2.2195	LINR	R	0.417828	0.449237		ug/L	2.0339	1.000	0.0500	0.99	15	
2-Chlorotoluene	1.7485	2.2950	2.4620	2.3913	2.4388	2.3839	2.3591	AVRG	R		0.435363		ug/L	2.2969	11	0.0500	0.99	15	
4-Chlorotoluene	1.8387	2.0716	2.1630	2.2553	2.2081	2.1515	2.1621	AVRG	R		0.471370		ug/L	2.1215	6	0.0500	0.99	15	
tert-Butylbenzene	0.7941	1.3949	1.6620	1.7051	1.7176	1.7777	1.8447	QUAD	R	0.252671	0.607388	-0.00036	ug/L	1.5566	1.000	0.0500	0.99	15	
1,2,4-Trimethylbenzene	1.3672	2.0056	2.2478	2.2481	2.2151	2.2802	2.3077	QUAD	R	0.070750	0.458341	-0.00011	ug/L	2.0959	1.000	0.0500	0.99	15	
sec-Butylbenzene	1.7122	2.5308	2.9857	3.0601	2.9339	3.0475	2.9987	LINR	R	0.327217	0.331166		ug/L	2.7527	1.000	0.0500	0.99	15	
para-Isopropyl Toluene	1.2406	1.9044	2.1966	2.1956	2.2691	2.3439	2.3372	QUAD	R	0.564710	0.439270	-6.51E-5	ug/L	2.0696	1.000	0.0500	0.99	15	
1,3-Dichlorobenzene	1.2353	1.2653	1.3132	1.3526	1.3816	1.3733	1.3777	AVRG	R		0.752770		ug/L	1.3284	4	0.0500	0.99	15	
1,4-Dichlorobenzene	1.4350	1.4326	1.4357	1.4695	1.4560	1.4671	1.4538	AVRG	R		0.689679		ug/L	1.4499	1	0.0500	0.99	15	
n-Butylbenzene	1.6812	2.1861	2.6235	2.6770	2.6867	2.7171	2.6051	LINR	R	0.075067	0.376682		ug/L	2.4538	0.999	0.0500	0.99	15	
1,2-Dichlorobenzene	1.0136	1.2590	1.3248	1.3740	1.3313	1.3861	1.3754	AVRG	R		0.772263		ug/L	1.2949	10	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.2115m	0.2237	0.2342	0.2185	0.2187	0.2116	0.2015	AVRG	R		4.606122		ug/L	0.2171	5	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.4139	0.7412	0.7751	0.8586	0.8853	0.9084	0.9146	QUAD	R	0.744974	1.132881	-0.00054	ug/L	0.7853	1.000	0.0500	0.99	15	
Hexachlorobutadiene	0.0652m	0.2888	0.3244	0.3273	0.3337	0.3512	0.3566	QUAD	R	0.414352	3.060501	-0.00769	ug/L	0.2924	1.000	0.0500	0.99	15	
Naphthalene	1.3132	1.9926	2.3189	2.5050	2.5332	2.6410	2.7286	QUAD	R	0.479847	0.408896	-0.00016	ug/L	2.2904	1.000	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.5207m	0.6861	0.7879	0.8204	0.8599	0.8965	0.9279	QUAD	R	0.513819	1.214476	-0.00154	ug/L	0.7856	1.000	0.0500	0.99	15	
tert-Butyl Alcohol (TBA)	0.1109m	0.1012	0.1050	0.1026	0.0969	0.0877	0.0844	AVRG	R		10.16183		ug/L	0.0984	10	0.0050	0.99	15	
Isopropyl Ether (DIPE)	2.7237	2.6616	2.8748	3.0000	2.8679	2.7013	2.4458	AVRG	R		0.363164		ug/L	2.7536	7	0.0500	0.99	15	
Ethyl tert-Butyl Ether (ETBE)	1.7907	2.0418	2.1266	2.1633	2.2907	2.0918	2.0741	AVRG	R		0.480144		ug/L	2.0827	7	0.0500	0.99	15	
Methyl tert-Amyl Ether (TAME)	0.8010	1.0195	1.0664	1.0957	1.1134	1.1237	1.1307	AVRG	R		0.952328		ug/L	1.0501	11	0.0500	0.99	15	
Cyclohexanone		0.1250	0.1074	0.1186	0.1224	0.1054		AVRG	R		8.638403		ug/L	0.1158	8	0.0050	0.99	15	
Ethanol		0.0154m	0.0159m	0.0156	0.0136	0.0135	0.0121	AVRG	R		69.63360		ug/L	0.0144	11	5.0E-4	0.99	15	
Isopropanol		0.0828	0.0755	0.0765	0.0630	0.0632	0.0589	AVRG	R		14.29302		ug/L	0.0700	14	0.0050	0.99	15	
Tetrahydrofuran		0.3147	0.3200	0.3226	0.2951	0.2693	0.2473	AVRG	R		3.391842		ug/L	0.2948	10	0.0050	0.99	15	
Dibromofluoromethane	0.8238	0.8107	0.7826	0.7755	0.7628	0.7235	0.6841	AVRG	R		1.305239		ug/L	0.7661	6	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.5363	0.5468	0.5318	0.5215	0.5154	0.4998	0.4625	AVRG	R		1.936805		ug/L	0.5163	5	0.0500	0.99	15	
Trifluorotoluene	0.2749	0.3675	0.4157	0.4267	0.4193	0.4666	0.4800	QUAD	R	0.152749	2.477974	-0.00850	ug/L	0.4072	0.999	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA05 HP GCMS VOA 05 Reviewed By:
Calnum: 444493014001 Name: 826GOX5 Type: WATER Date: 07-DEC-2004 15:35 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MinRF	MnR^2	MxRSD	Flags
Toluene-d8	1.0755	1.0687	1.0633	1.0515	1.0877	1.1068	1.1025	AVRG	R		0.926402		ug/L	1.0794	2	0.0500	0.99	15	
Bromofluorobenzene	1.0676	1.0907	1.0309	1.0329	1.0280	1.0334	0.9909	AVRG	R		0.962285		ug/L	1.0392	3	0.0500	0.99	15	

Flags used: m=manual integration
Curves: AVRG: Average response factor LINR: Linear regression QUAD: Quadratic regression
Instrument amount = a0 + response * a1 + response^2 * a2

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL711.D
Report Date: 08-Dec-2004 11:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL711.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 07-DEC-2004 15:35 MS Autotune Date: 03-DEC-2004 09:18
Operator : LW Inst ID: MSVOA05.i
Smp Info : ICAL,04WS2168,0.002/1000,04SS408,0.002/1000,
Misc Info : 04WS2204,0.001/1000,1.0/0.5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\826GOX5.m
Meth Date : 08-Dec-2004 10:48 target Quant Type: ISTD
Cal Date : 07-DEC-2004 15:35 Cal File: EL711.D
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.555	4.553	(0.441)	3102	1.00000	0.7873(M)
2 Chloromethane	50	4.959	4.957	(0.480)	5875	1.00000	1.0542(M)
3 Vinyl Chloride	62	5.166	5.154	(0.500)	4641	1.00000	1.0187(M)
4 Bromomethane	94	5.806	5.795	(0.562)	3761	1.00000	1.2647(M)
5 Chloroethane	64	5.964	5.952	(0.577)	2450	1.00000	1.0630
6 Trichlorofluoromethane	101	6.309	6.307	(0.610)	4917	1.00000	1.0232
7 Ethanol	45	6.585	6.583	(0.637)	2265	50.0000	39.5997(A)
8 Freon 113	101	7.058	7.046	(0.683)	1159	0.50000	0.4653(a)
9 1,1-Dichloroethene	96	7.156	7.145	(0.692)	1884	0.50000	0.5581(M)
10 Acetone	43	7.265	7.253	(0.703)	1385	0.50000	0.9142
11 Isopropanol	45	7.344	7.342	(0.710)	1355	5.00000	4.8625(A)
12 Carbon Disulfide	76	7.551	7.549	(0.730)	5651	0.50000	0.5468
13 Methylene Chloride	84	7.905	7.904	(0.765)	3074	0.50000	0.9363
14 tert-Butyl Alcohol (TBA)	59	7.915	7.913	(0.766)	2209	5.00000	5.6360(AM)
15 MTBE	73	8.162	8.160	(0.789)	5013	0.50000	0.5588(M)
16 trans-1,2-Dichloroethene	96	8.240	8.239	(0.797)	1920	0.50000	0.2794(a)
17 Isopropyl Ether (DIPE)	45	8.773	8.771	(0.848)	5424	0.50000	0.4945(aA)
19 1,1-Dichloroethane	63	8.901	8.899	(0.861)	2483	0.50000	0.4654(a)
20 Ethyl tert-Butyl Ether (ETBE)	59	9.295	9.283	(0.899)	3566	0.50000	0.4298(aA)
21 2,2-Dichloropropane	77	9.719	9.707	(0.940)	1646	0.50000	0.4494(a)
22 2-Butanone	43	9.699	9.707	(0.938)	1571	0.50000	0.7459(M)
23 cis-1,2-Dichloroethene	96	9.729	9.727	(0.941)	1757	0.50000	0.6306

LW 12-8-04

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL711.D
Report Date: 08-Dec-2004 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	24 Bromochloromethane	128	10.103	10.101	(0.977)	592	0.50000	0.4264(a)
	25 Tetrahydrofuran	42	10.103	10.101	(0.977)	6279	5.00000	5.3472(A)
	26 Chloroform	83	10.133	10.131	(0.980)	2640	0.50000	0.5065
*	27 Pentafluorobenzene	168	10.340	10.338	(1.000)	199143	50.0000	
$	28 Dibromofluoromethane	113	10.389	10.387	(1.009)	164049	50.0000	53.7611
	29 1,1,1-Trichloroethane	97	10.418	10.426	(1.008)	2091	0.50000	0.5542
	30 Carbon Tetrachloride	117	10.635	10.624	(0.926)	1488	0.50000	0.4696(a)
	31 1,1-Dichloropropene	75	10.645	10.643	(0.927)	1415	0.50000	0.4043(a)
$	32 1,2-Dichloroethane-d4	65	10.951	10.949	(0.954)	202321	50.0000	51.9316
	33 Benzene	78	10.960	10.969	(0.955)	5188	0.50000	0.4900(a)
	34 Methyl tert-Amyl Ether (TAME)	73	10.980	10.978	(0.956)	3022	0.50000	0.3814(aA)
	35 1,2-Dichloroethane	62	11.069	11.067	(0.964)	1726	0.50000	0.3976(a)
*	36 1,4-Difluorobenzene	114	11.483	11.481	(1.000)	377281	50.0000	
	37 Trichloroethene	95	11.887	11.885	(1.035)	871	0.50000	0.3532(a)
$	38 Trifluorotoluene	146	12.261	12.250	(1.068)	1037	0.50000	0.4931(aA)
	39 1,2-Dichloropropane	63	12.291	12.299	(1.070)	1467	0.50000	0.4731(a)
	40 Dibromomethane	93	12.478	12.486	(1.087)	781	0.50000	0.3534(a)
	41 Bromodichloromethane	83	12.646	12.634	(1.101)	1640	0.50000	0.4221(a)
	42 2-Chloroethylvinylether	63	12.981	12.989	(1.130)	1310	1.00000	2.1679(M)
	43 Tetramethyl THF	43	13.207	13.215	(1.150)	2641	0.50000	0.4103(aA)
	44 cis-1,3-Dichloropropene	75	13.257	13.255	(1.154)	1750	0.50000	0.3858(a)
	45 4-Methyl-2-Pentanone	43	13.395	13.403	(1.166)	1416	0.50000	0.3583(a)
$	46 Toluene-d8	98	13.592	13.590	(1.184)	405778	50.0000	49.8187
	47 Toluene	92	13.680	13.679	(1.191)	2391	0.50000	0.4206(a)
	48 trans-1,3-Dichloropropene	75	14.006	14.014	(1.220)	1852	0.50000	0.4276(a)
	49 1,1,2-Trichloroethane	85	14.272	14.280	(1.243)	722	0.50000	0.4649(a)
	50 Tetrachloroethene	166	14.400	14.398	(0.928)	683	0.50000	0.1778(a)
	51 2-Hexanone	43	14.498	14.507	(0.934)	1196	0.50000	0.4360(aM)
	52 1,3-Dichloropropane	76	14.528	14.526	(0.936)	1981	0.50000	0.4181(a)
	53 Dibromochloromethane	129	14.804	14.802	(0.954)	1273	0.50000	0.4482(a)
	54 1,2-Dibromoethane	107	15.001	15.009	(1.306)	1108	0.50000	0.3860(a)
*	55 Chlorobenzene-d5	117	15.523	15.522	(1.000)	339579	50.0000	
	56 Chlorobenzene	112	15.563	15.561	(1.003)	2690	0.50000	0.4429(a)
	57 Ethylbenzene	91	15.612	15.610	(1.006)	4507	0.50000	0.4128(a)
	58 1,1,1,2-Tetrachloroethane	131	15.642	15.650	(1.008)	1082	0.50000	0.4592(a)
	59 m,p-Xylenes	106	15.750	15.758	(1.015)	2537	1.00000	1.7940
	60 o-Xylene	106	16.253	16.261	(1.047)	1043	0.50000	0.9445
	61 Styrene	104	16.272	16.280	(1.048)	1873	0.50000	0.8594
	62 Bromoform	173	16.578	16.586	(1.068)	652	0.50000	0.6355(M)
	63 Isopropylbenzene	105	16.657	16.655	(0.913)	3072	0.50000	0.3600(a)
	64 Cyclohexanone	55	16.903	16.901	(0.926)	2915	5.00000	6.7239(A)
$	65 Bromofluorobenzene	95	16.913	16.911	(0.927)	199909	50.0000	51.3673
	66 1,1,2,2-Tetrachloroethane	83	17.061	17.059	(0.935)	2317	0.50000	0.5294
	67 Propylbenzene	91	17.120	17.128	(0.938)	5058	0.50000	0.3956(a)
	68 Bromobenzene	156	17.120	17.128	(0.938)	916	0.50000	0.3599(a)
	69 1,2,3-Trichloropropane	110	17.159	17.158	(0.940)	328	0.50000	0.3340(a)
	70 2-Chlorotoluene	91	17.297	17.296	(0.948)	3274	0.50000	0.3806(a)
	71 1,3,5-Trimethylbenzene	105	17.297	17.305	(0.948)	2504	0.50000	0.7182
	72 4-Chlorotoluene	91	17.425	17.424	(0.955)	3443	0.50000	0.4333(a)
	73 tert-Butylbenzene	119	17.692	17.690	(0.969)	1487	0.50000	0.4937(a)
	74 1,2,4-Trimethylbenzene	105	17.751	17.759	(0.972)	2560	0.50000	0.3840(a)
	75 sec-Butylbenzene	105	17.938	17.936	(0.983)	3206	0.50000	0.6107
	76 para-Isopropyl Toluene	119	18.086	18.084	(0.991)	2323	0.50000	0.8371
	77 1,3-Dichlorobenzene	146	18.174	18.173	(0.996)	2313	0.50000	0.4649(a)

LW 12-8-04

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL711.D
Report Date: 08-Dec-2004 11:37

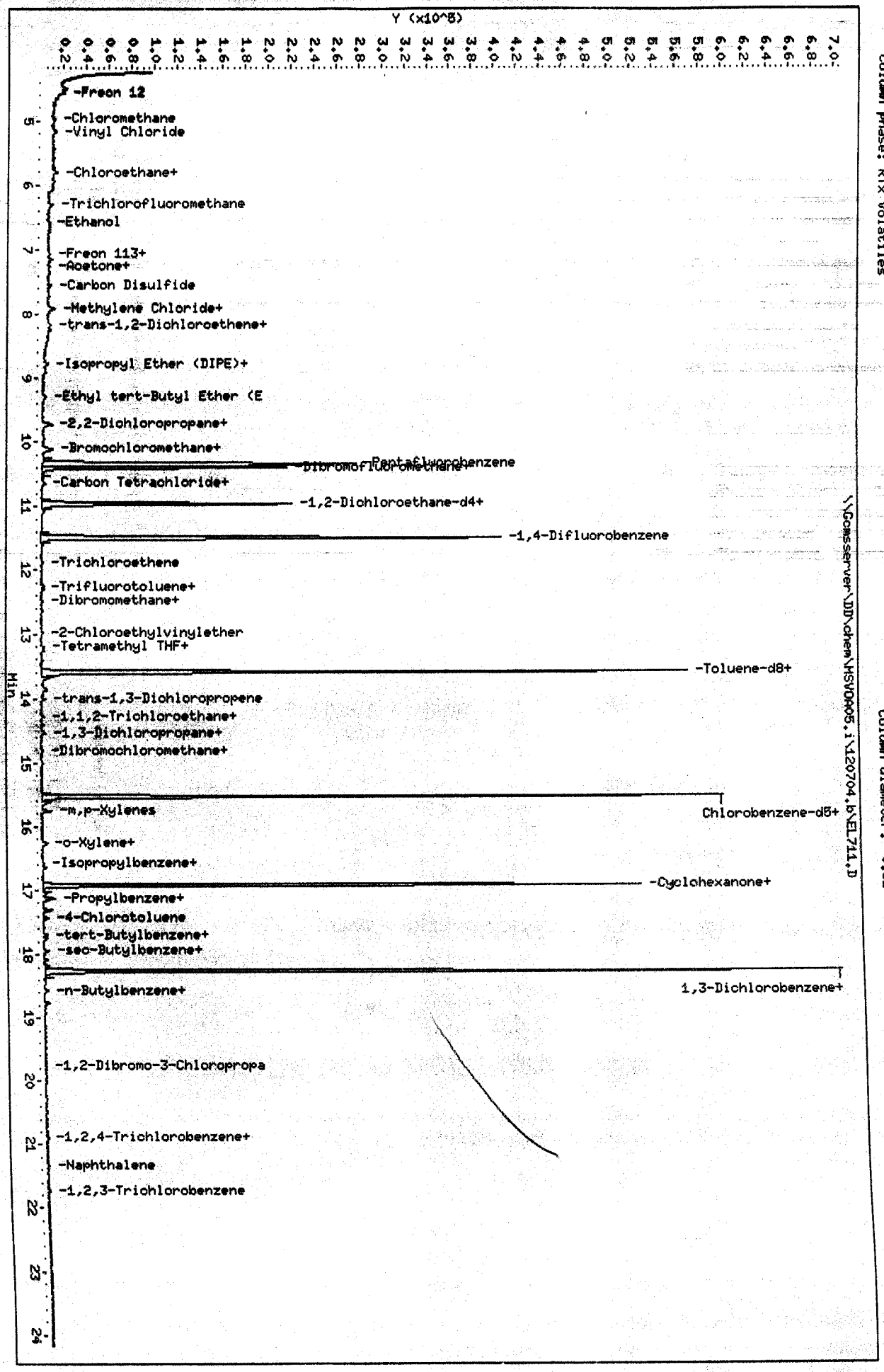
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 78 1,4-Dichlorobenzene-d4	152	18.253	18.251	(1.000)	187249	50.0000	
79 1,4-Dichlorobenzene	146	18.283	18.281	(1.002)	2687	0.50000	0.4948(a)
80 n-Butylbenzene	91	18.569	18.567	(1.017)	3148	0.50000	0.3917(a)
81 1,2-Dichlorobenzene	146	18.756	18.764	(1.028)	1898	0.50000	0.3913(a)
82 1,2-Dibromo-3-Chloropropane	75	19.761	19.759	(1.083)	396	0.50000	0.4870(aM)
83 1,2,4-Trichlorobenzene	180	20.885	20.893	(1.144)	775	0.50000	0.9793
84 Hexachlorobutadiene	225	21.013	21.011	(1.151)	122	0.50000	0.5140(M)
85 Naphthalene	128	21.338	21.346	(1.169)	2459	0.50000	0.7482
86 1,2,3-Trichlorobenzene	180	21.732	21.730	(1.191)	975	0.50000	0.8299(M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSVOA05.i\120704.b\EL711.D
Date : 07-DEC-2004 15:35
Client ID: DYNA P&T
Sample Info: ICAL,04WS2168,0.002/1000,04SS408,0.002/1000,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA05.i
Operator: LM
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL712.D
Report Date: 08-Dec-2004 11:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL712.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 07-DEC-2004 16:06 MS Autotune Date: 03-DEC-2004 09:18
Operator : LW Inst ID: MSVOA05.i
Smp Info : ICAL,04WS2168,0.01/500,04SS408,0.005/500,
Misc Info : 04WS2204,0.0025/500,5 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\826GOX5.m
Meth Date : 08-Dec-2004 10:48 target Quant Type: ISTD
Cal Date : 07-DEC-2004 16:06 Cal File: EL712.D
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.558	4.553	(0.441)	20322	5.00000	5.1306(M)
2 Chloromethane	50	4.962	4.957	(0.480)	31240	5.00000	5.5758
3 Vinyl Chloride	62	5.159	5.154	(0.499)	23598	5.00000	5.1522(M)
4 Bromomethane	94	5.800	5.795	(0.561)	15608	5.00000	5.2208
5 Chloroethane	64	5.957	5.952	(0.576)	12544	5.00000	5.4137
6 Trichlorofluoromethane	101	6.312	6.307	(0.610)	24956	5.00000	5.1661
7 Ethanol	45	6.588	6.583	(0.637)	30882	500.000	537.0449(AM)
8 Freon 113	101	7.041	7.046	(0.681)	11623	5.00000	4.6421
9 1,1-Dichloroethene	96	7.150	7.145	(0.691)	11360	5.00000	4.5054
10 Acetone	43	7.258	7.253	(0.702)	8625	5.00000	5.6631
11 Isopropanol	45	7.337	7.342	(0.709)	16568	50.0000	59.1398(A)
12 Carbon Disulfide	76	7.554	7.549	(0.730)	51730	5.00000	4.9795
13 Methylene Chloride	84	7.899	7.904	(0.764)	18685	5.00000	5.6614
14 tert-Butyl Alcohol (TBA)	59	7.918	7.913	(0.766)	20271	50.0000	51.4438(A)
15 MTBE	73	8.165	8.160	(0.789)	44202	5.00000	4.9018
16 trans-1,2-Dichloroethene	96	8.234	8.239	(0.796)	13008	5.00000	4.4130
17 Isopropyl Ether (DIPE)	45	8.776	8.771	(0.849)	53288	5.00000	4.8330(A)
18 Vinyl Acetate	43	8.845	8.850	(0.855)	35754	5.00000	4.9295
19 1,1-Dichloroethane	63	8.904	8.899	(0.861)	28806	5.00000	5.3705
20 Ethyl tert-Butyl Ether (ETBE)	59	9.288	9.283	(0.898)	40878	5.00000	4.9017(A)
21 2,2-Dichloropropane	77	9.712	9.707	(0.939)	19223	5.00000	5.2205
22 2-Butanone	43	9.712	9.707	(0.939)	11749	5.00000	5.5490

LW 12-8-04

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL712.D
Report Date: 08-Dec-2004 11:37

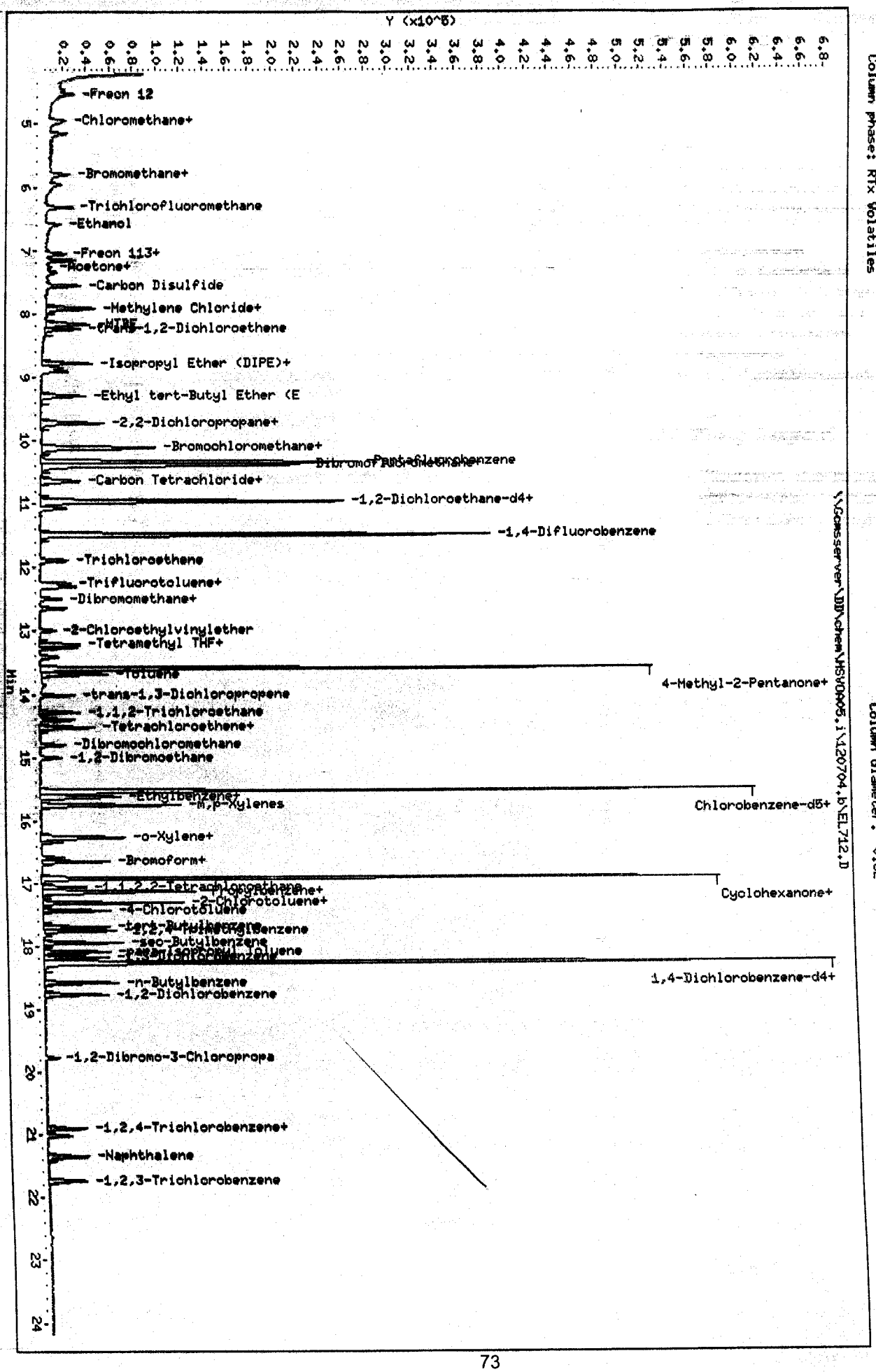
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.732	9.727	(0.941)	13057	5.00000	4.6613
	24 Bromochloromethane	128	10.096	10.101	(0.976)	7018	5.00000	5.0284
	25 Tetrahydrofuran	42	10.116	10.101	(0.978)	63012	50.0000	53.3759(A)
	26 Chloroform	83	10.136	10.131	(0.980)	28273	5.00000	5.3958
*	27 Pentafluorobenzene	168	10.343	10.338	(1.000)	200209	50.0000	
$	28 Dibromofluoromethane	113	10.382	10.387	(1.004)	162302	50.0000	52.9054
	29 1,1,1-Trichloroethane	97	10.431	10.426	(1.009)	18254	5.00000	4.8123
	30 Carbon Tetrachloride	117	10.629	10.624	(0.925)	14248	5.00000	4.5940
	31 1,1-Dichloropropene	75	10.648	10.643	(0.927)	15671	5.00000	4.5753
$	32 1,2-Dichloroethane-d4	65	10.954	10.949	(0.954)	201935	50.0000	52.9552
	33 Benzene	78	10.974	10.969	(0.955)	51821	5.00000	5.0012
	34 Methyl tert-Amyl Ether (TAME)	73	10.974	10.978	(0.955)	37648	5.00000	4.8544(A)
	35 1,2-Dichloroethane	62	11.072	11.067	(0.964)	22808	5.00000	5.3680
*	36 1,4-Difluorobenzene	114	11.486	11.481	(1.000)	369282	50.0000	
	37 Trichloroethene	95	11.890	11.885	(1.035)	11813	5.00000	4.8949
$	38 Trifluorotoluene	146	12.255	12.250	(1.067)	13571	5.00000	4.6772(A)
	39 1,2-Dichloropropane	63	12.304	12.299	(1.071)	13847	5.00000	4.5629
	40 Dibromomethane	93	12.491	12.486	(1.088)	11545	5.00000	5.3381
	41 Bromodichloromethane	83	12.639	12.634	(1.100)	19515	5.00000	5.1320
	42 2-Chloroethylvinylether	63	12.984	12.989	(1.130)	7836	5.00000	5.2436
	43 Tetramethyl THF	43	13.211	13.215	(1.150)	29314	5.00000	4.6538(A)
	44 cis-1,3-Dichloropropene	75	13.260	13.255	(1.154)	21743	5.00000	4.8981
	45 4-Methyl-2-Pentanone	43	13.408	13.403	(1.167)	17038	5.00000	4.4056
$	46 Toluene-d8	98	13.585	13.590	(1.183)	394640	50.0000	49.5008
	47 Toluene	92	13.684	13.679	(1.191)	26715	5.00000	4.8020
	48 trans-1,3-Dichloropropene	75	14.019	14.014	(1.221)	18894	5.00000	4.4574
	49 1,1,2-Trichloroethane	85	14.275	14.280	(1.243)	7061	5.00000	4.6458
	50 Tetrachloroethene	166	14.403	14.398	(0.928)	9197	5.00000	4.4764
	51 2-Hexanone	43	14.512	14.507	(0.935)	12297	5.00000	4.4655
	52 1,3-Dichloropropane	76	14.521	14.526	(0.935)	24145	5.00000	5.0762
	53 Dibromochloromethane	129	14.797	14.802	(0.953)	13228	5.00000	4.6391
	54 1,2-Dibromoethane	107	15.004	15.009	(1.306)	14158	5.00000	5.0397
*	55 Chlorobenzene-d5	117	15.527	15.522	(1.000)	340953	50.0000	
	56 Chlorobenzene	112	15.566	15.561	(1.003)	30408	5.00000	4.9874
	57 Ethylbenzene	91	15.615	15.610	(1.006)	52194	5.00000	4.7621
	58 1,1,1,2-Tetrachloroethane	131	15.645	15.650	(1.008)	11349	5.00000	4.7975
	59 m,p-Xylenes	106	15.753	15.758	(1.015)	34232	10.0000	9.6728
	60 o-Xylene	106	16.256	16.261	(1.047)	14937	5.00000	4.5320
	61 Styrene	104	16.276	16.280	(1.048)	26933	5.00000	4.4816
	62 Bromoform	173	16.581	16.586	(1.068)	9212	5.00000	4.9023
	63 Isopropylbenzene	105	16.650	16.655	(0.912)	38566	5.00000	4.3979
	64 Cyclohexanone	55	16.906	16.901	(0.926)	24053	50.0000	53.9872(A)
$	65 Bromofluorobenzene	95	16.916	16.911	(0.927)	209889	50.0000	52.4785
	66 1,1,2,2-Tetrachloroethane	83	17.064	17.059	(0.935)	24061	5.00000	5.3503
	67 Propylbenzene	91	17.123	17.128	(0.938)	63348	5.00000	4.8212
	68 Bromobenzene	156	17.123	17.128	(0.938)	13641	5.00000	5.2160
	69 1,2,3-Trichloropropane	110	17.153	17.158	(0.940)	5406	5.00000	5.3571
	70 2-Chlorotoluene	91	17.301	17.296	(0.948)	44163	5.00000	4.9957
	71 1,3,5-Trimethylbenzene	105	17.310	17.305	(0.948)	38039	5.00000	4.8579
	72 4-Chlorotoluene	91	17.429	17.424	(0.955)	39864	5.00000	4.8823
	73 tert-Butylbenzene	119	17.695	17.690	(0.969)	26843	5.00000	4.4715
	74 1,2,4-Trimethylbenzene	105	17.754	17.759	(0.972)	38594	5.00000	4.6558
	75 sec-Butylbenzene	105	17.941	17.936	(0.983)	48702	5.00000	4.5178
	76 para-Isopropyl Toluene	119	18.079	18.084	(0.990)	36648	5.00000	4.7416

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL712.D
Report Date: 08-Dec-2004 11:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.178	18.173	(0.996)	24349	5.00000	4.7624
* 78 1,4-Dichlorobenzene-d4	152	18.256	18.251	(1.000)	192434	50.0000	
79 1,4-Dichlorobenzene	146	18.286	18.281	(1.002)	27568	5.00000	4.9401
80 n-Butylbenzene	91	18.572	18.567	(1.017)	42068	5.00000	4.1923
81 1,2-Dichlorobenzene	146	18.759	18.764	(1.028)	24228	5.00000	4.8615
82 1,2-Dibromo-3-Chloropropane	75	19.754	19.759	(1.082)	4305	5.00000	5.1522
83 1,2,4-Trichlorobenzene	180	20.898	20.893	(1.145)	14264	5.00000	4.9361
84 Hexachlorobutadiene	225	21.016	21.011	(1.151)	5558	5.00000	4.8180
85 Naphthalene	128	21.341	21.346	(1.169)	38344	5.00000	4.5375
86 1,2,3-Trichlorobenzene	180	21.735	21.730	(1.191)	13203	5.00000	4.6619

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.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Purge Volume: 5.0
Column phase: RTx Volatiles
Instrument: MSV0A05.i
Operator: LW
Column diameter: 0.32
\\Gcmsserver\DD\chem\MSV0A05.i\120704.b\EL712.D
Y (x10^5)
Min
-Freon 12
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane
-Ethanol
-Freon 113+
-Acetone+
-Carbon Disulfide
-Methylene Chloride+
-trans-1,2-Dichloroethene
-Isopropyl Ether (DIPE)+
-Ethyl tert-Butyl Ether (E
-2,2-Dichloropropane+
-Bromochloromethane+
-Carbon Tetrachloride+
-1,2-Dichloroethane-d4+
-1,4-Difluorobenzene
-Trichloroethene
-Trifluorotoluene+
-Dibromomethane+
-2-Chloroethylvinylether
-Tetramethyl THF+
-Toluene
4-Methyl-2-Pentanone+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane
-Tetrachloroethene+
-Dibromochloromethane
-1,2-Dibromoethane
-Ethylbenzene+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform+
-1,1,2,2-Tetrachloroethane
-Styrene+
-2-Chlorotoluene+
-4-Chlorotoluene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
Cyclohexanone+
-n-Butylbenzene
-1,2-Dichlorobenzene
1,4-Dichlorobenzene-d4+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Naphthalene
-1,2,3-Trichlorobenzene

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL713.D
Report Date: 08-Dec-2004 11:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL713.D
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Inj Date : 07-DEC-2004 16:38 MS Autotune Date: 03-DEC-2004 09:18
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Misc Info : 04WS2204,0.001/100,10 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\826GOX5.m
Meth Date : 08-Dec-2004 10:48 target Quant Type: ISTD
Cal Date : 07-DEC-2004 16:38 Cal File: EL713.D
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.553	4.553	(0.440)	43412	10.0000	10.6600(M)
2 Chloromethane	50	4.967	4.957	(0.480)	57579	10.0000	9.9954
3 Vinyl Chloride	62	5.164	5.154	(0.500)	47944	10.0000	10.1810
4 Bromomethane	94	5.805	5.795	(0.562)	29559	10.0000	9.6491
5 Chloroethane	64	5.953	5.952	(0.576)	25057	10.0000	10.5179
6 Trichlorofluoromethane	101	6.317	6.307	(0.611)	51034	10.0000	10.2743
7 Ethanol	45	6.583	6.583	(0.637)	65435	1000.00	1106.7624(AM)
8 Freon 113	101	7.046	7.046	(0.682)	29223	10.0000	11.3518
9 1,1-Dichloroethene	96	7.155	7.145	(0.692)	28249	10.0000	10.4552
10 Acetone	43	7.263	7.253	(0.703)	16761	10.0000	10.7037
11 Isopropanol	45	7.332	7.342	(0.709)	31086	100.000	107.8536(A)
12 Carbon Disulfide	76	7.549	7.549	(0.730)	114351	10.0000	10.8932
13 Methylene Chloride	84	7.914	7.904	(0.766)	36666	10.0000	10.8052
14 tert-Butyl Alcohol (TBA)	59	7.914	7.913	(0.766)	43247	100.000	106.7464(A)
15 MTBE	73	8.160	8.160	(0.789)	96475	10.0000	10.4056
16 trans-1,2-Dichloroethene	96	8.239	8.239	(0.797)	31553	10.0000	11.0798
17 Isopropyl Ether (DIPE)	45	8.771	8.771	(0.848)	118353	10.0000	10.4401(A)
18 Vinyl Acetate	43	8.850	8.850	(0.856)	79804	10.0000	10.7015
19 1,1-Dichloroethane	63	8.899	8.899	(0.861)	61781	10.0000	11.2028
20 Ethyl tert-Butyl Ether (ETBE)	59	9.293	9.283	(0.899)	87549	10.0000	10.2105(A)
21 2,2-Dichloropropane	77	9.717	9.707	(0.940)	41848	10.0000	11.0537
22 2-Butanone	43	9.717	9.707	(0.940)	22755	10.0000	10.4527

LW 12-8-04

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL713.D
Report Date: 08-Dec-2004 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.727	9.727	(0.941)	28343	10.0000	9.8413
	24 Bromochloromethane	128	10.102	10.101	(0.977)	14901	10.0000	10.3843
	25 Tetrahydrofuran	42	10.111	10.101	(0.978)	131730	100.000	108.5289(A)
	26 Chloroform	83	10.141	10.131	(0.981)	56740	10.0000	10.5321
*	27 Pentafluorobenzene	168	10.338	10.338	(1.000)	205847	50.0000	
$	28 Dibromofluoromethane	113	10.387	10.387	(1.005)	161100	50.0000	51.0753
	29 1,1,1-Trichloroethane	97	10.427	10.426	(1.009)	42358	10.0000	10.8611
	30 Carbon Tetrachloride	117	10.624	10.624	(0.925)	34223	10.0000	10.6780
	31 1,1-Dichloropropene	75	10.644	10.643	(0.927)	35833	10.0000	10.1236
$	32 1,2-Dichloroethane-d4	65	10.949	10.949	(0.954)	202958	50.0000	51.5029
	33 Benzene	78	10.969	10.969	(0.955)	110512	10.0000	10.3206
	34 Methyl tert-Amyl Ether (TAME)	73	10.979	10.978	(0.956)	81393	10.0000	10.1557(A)
	35 1,2-Dichloroethane	62	11.067	11.067	(0.964)	48725	10.0000	11.0970
*	36 1,4-Difluorobenzene	114	11.481	11.481	(1.000)	381619	50.0000	
	37 Trichloroethene	95	11.885	11.885	(1.035)	25974	10.0000	10.4148
$	38 Trifluorotoluene	146	12.250	12.250	(1.067)	31724	10.0000	10.3055(A)
	39 1,2-Dichloropropane	63	12.299	12.299	(1.071)	32482	10.0000	10.3577
	40 Dibromomethane	93	12.486	12.486	(1.088)	25252	10.0000	11.2984
	41 Bromodichloromethane	83	12.634	12.634	(1.100)	40477	10.0000	10.3004
	42 2-Chloroethylvinylether	63	12.989	12.989	(1.131)	16362	10.0000	8.9966
	43 Tetramethyl THF	43	13.216	13.215	(1.151)	67698	10.0000	10.4002(A)
	44 cis-1,3-Dichloropropene	75	13.255	13.255	(1.155)	47001	10.0000	10.2458
	45 4-Methyl-2-Pentanone	43	13.403	13.403	(1.167)	40047	10.0000	10.0206
$	46 Toluene-d8	98	13.590	13.590	(1.184)	405787	50.0000	49.2535
	47 Toluene	92	13.679	13.679	(1.191)	60087	10.0000	10.4516
	48 trans-1,3-Dichloropropene	75	14.014	14.014	(1.221)	43141	10.0000	9.8487
	49 1,1,2-Trichloroethane	85	14.280	14.280	(1.244)	16273	10.0000	10.3608
	50 Tetrachloroethene	166	14.398	14.398	(0.928)	21988	10.0000	10.5579
	51 2-Hexanone	43	14.507	14.507	(0.935)	28385	10.0000	10.0399
	52 1,3-Dichloropropane	76	14.527	14.526	(0.936)	52700	10.0000	10.7916
	53 Dibromochloromethane	129	14.793	14.802	(0.953)	28069	10.0000	9.5873
	54 1,2-Dibromoethane	107	15.009	15.009	(1.307)	28767	10.0000	9.9090
*	55 Chlorobenzene-d5	117	15.522	15.522	(1.000)	350051	50.0000	
	56 Chlorobenzene	112	15.561	15.561	(1.003)	63435	10.0000	10.1339
	57 Ethylbenzene	91	15.620	15.610	(1.006)	111896	10.0000	9.9440
	58 1,1,1,2-Tetrachloroethane	131	15.640	15.650	(1.008)	23960	10.0000	9.8652
	59 m,p-Xylenes	106	15.749	15.758	(1.015)	76913	20.0000	19.7334
	60 o-Xylene	106	16.261	16.261	(1.048)	36444	10.0000	9.7893
	61 Styrene	104	16.281	16.280	(1.049)	64523	10.0000	9.6211
	62 Bromoform	173	16.586	16.586	(1.069)	19275	10.0000	9.6103
	63 Isopropylbenzene	105	16.655	16.655	(0.913)	100469	10.0000	10.3953
	64 Cyclohexanone	55	16.911	16.901	(0.927)	45848	100.000	92.7586(A)
$	65 Bromofluorobenzene	95	16.911	16.911	(0.927)	218639	50.0000	49.6001
	66 1,1,2,2-Tetrachloroethane	83	17.059	17.059	(0.935)	50650	10.0000	10.2190
	67 Propylbenzene	91	17.128	17.128	(0.938)	153481	10.0000	10.5985
	68 Bromobenzene	156	17.128	17.128	(0.938)	29042	10.0000	10.0759
	69 1,2,3-Trichloropropane	110	17.148	17.158	(0.940)	12606	10.0000	11.3344
	70 2-Chlorotoluene	91	17.296	17.296	(0.948)	104433	10.0000	10.7186
	71 1,3,5-Trimethylbenzene	105	17.306	17.305	(0.948)	89769	10.0000	9.9250
	72 4-Chlorotoluene	91	17.424	17.424	(0.955)	91750	10.0000	10.1957
	73 tert-Butylbenzene	119	17.690	17.690	(0.969)	70500	10.0000	10.2486
	74 1,2,4-Trimethylbenzene	105	17.749	17.759	(0.972)	95348	10.0000	10.3178
	75 sec-Butylbenzene	105	17.936	17.936	(0.983)	126647	10.0000	10.2148
	76 para-Isopropyl Toluene	119	18.084	18.084	(0.991)	93174	10.0000	10.1821

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL713.D
Report Date: 08-Dec-2004 11:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.173	18.173	(0.996)	55704	10.0000	9.8855
* 78 1,4-Dichlorobenzene-d4	152	18.252	18.251	(1.000)	212089	50.0000	
79 1,4-Dichlorobenzene	146	18.281	18.281	(1.002)	60900	10.0000	9.9018
80 n-Butylbenzene	91	18.567	18.567	(1.017)	111281	10.0000	9 9571
81 1,2-Dichlorobenzene	146	18.754	18.764	(1.028)	56197	10.0000	10.2312
82 1,2-Dibromo-3-Chloropropane	75	19.760	19.759	(1.083)	9936	10.0000	10.7894
83 1,2,4-Trichlorobenzene	180	20.893	20.893	(1.145)	32878	10.0000	9.4932
84 Hexachlorobutadiene	225	21.011	21.011	(1.151)	13759	10.0000	10.2606
85 Naphthalene	128	21.336	21.346	(1.169)	98364	10.0000	9.8747
86 1,2,3-Trichlorobenzene	180	21.731	21.730	(1.191)	33422	10.0000	9.9872

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comserver\DD\chem\HSVOA05.i\120704.b\EL713.D
Date : 07-DEC-2004 16:38
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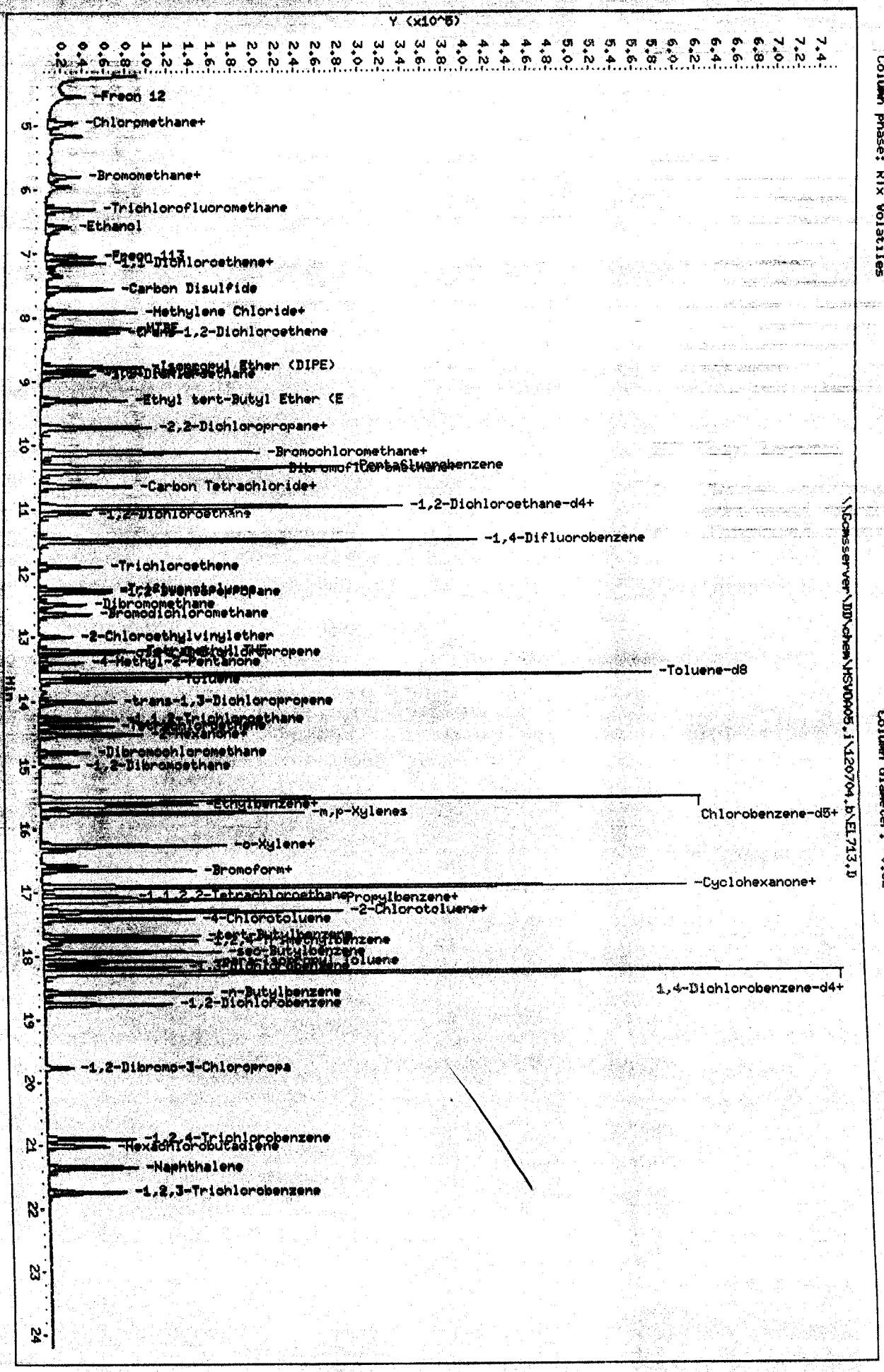
Sample Info: ICAL,04HS2168,0.004/100,04SS408,0.002/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA05.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL714.D
Report Date: 08-Dec-2004 11:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL714.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 07-DEC-2004 17:10 MS Autotune Date: 03-DEC-2004 09:18
Operator : LW Inst ID: MSVOA05.i
Smp Info : ICAL,04WS2168,0.008/100,04SS408,0.004/100,
Misc Info : 04WS2204,0.002/100,20 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\826GOX5.m
Meth Date : 08-Dec-2004 10:48 target Quant Type: ISTD
Cal Date : 07-DEC-2004 17:10 Cal File: EL714.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.553	4.553	(0.440)	89735	20.0000	21.1919(M) LN 12-8-04
2 Chloromethane	50	4.957	4.957	(0.480)	121053	20.0000	20.2103
3 Vinyl Chloride	62	5.154	5.154	(0.499)	97689	20.0000	19.9510
4 Bromomethane	94	5.795	5.795	(0.561)	60984	20.0000	19.0814
5 Chloroethane	64	5.953	5.952	(0.576)	47631	20.0000	19.2288
6 Trichlorofluoromethane	101	6.307	6.307	(0.610)	103813	20.0000	20.1006
7 Ethanol	45	6.574	6.583	(0.636)	133936	2000.00	2178.7299(A)
8 Freon 113	101	7.047	7.046	(0.682)	57516	20.0000	21.4878
9 1,1-Dichloroethene	96	7.155	7.145	(0.692)	51437	20.0000	20.0396
10 Acetone	43	7.254	7.253	(0.702)	34762	20.0000	21.3502
11 Isopropanol	45	7.342	7.342	(0.710)	65494	200.000	218.6817(A)
12 Carbon Disulfide	76	7.549	7.549	(0.730)	230995	20.0000	20.7993
13 Methylene Chloride	84	7.904	7.904	(0.765)	72435	20.0000	20.5296
14 tert-Butyl Alcohol (TBA)	59	7.914	7.913	(0.766)	87847	200.000	208.5384(A)
15 MTBE	73	8.160	8.160	(0.789)	197121	20.0000	20.4478
16 trans-1,2-Dichloroethene	96	8.239	8.239	(0.797)	58437	20.0000	20.2554
17 Isopropyl Ether (DIPE)	45	8.771	8.771	(0.848)	256839	20.0000	21.7896(A)
18 Vinyl Acetate	43	8.850	8.850	(0.856)	164221	20.0000	21.1793
19 1,1-Dichloroethane	63	8.899	8.899	(0.861)	116412	20.0000	20.3016
20 Ethyl tert-Butyl Ether (ETBE)	59	9.284	9.283	(0.898)	185211	20.0000	20.7742(A)
21 2,2-Dichloropropane	77	9.708	9.707	(0.939)	80461	20.0000	20.4399
22 2-Butanone	43	9.717	9.707	(0.940)	47466	20.0000	20.9700

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL714.D
Report Date: 08-Dec-2004 11:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	9.727	9.727	(0.941)	56991	20.0000	19.0317
24 Bromochloromethane	128	10.102	10.101	(0.977)	31056	20.0000	20.8146
25 Tetrahydrofuran	42	10.102	10.101	(0.977)	276154	200.000	218.8135(A)
26 Chloroform	83	10.131	10.131	(0.980)	114920	20.0000	20.5157
* 27 Pentafluorobenzene	168	10.338	10.338	(1.000)	214034	50.0000	
$ 28 Dibromofluoromethane	113	10.388	10.387	(1.005)	165981	50.0000	50.6099
29 1,1,1-Trichloroethane	97	10.427	10.426	(1.009)	80285	20.0000	19.7987
30 Carbon Tetrachloride	117	10.624	10.624	(0.925)	65818	20.0000	20.1130
31 1,1-Dichloropropene	75	10.644	10.643	(0.927)	74072	20.0000	20.4959
$ 32 1,2-Dichloroethane-d4	65	10.949	10.949	(0.954)	203193	50.0000	50.5004
33 Benzene	78	10.969	10.969	(0.955)	220021	20.0000	20.1244
34 Methyl tert-Amyl Ether (TAME)	73	10.979	10.978	(0.956)	170780	20.0000	20.8701(A)
35 1,2-Dichloroethane	62	11.068	11.067	(0.964)	93046	20.0000	20.7546
* 36 1,4-Difluorobenzene	114	11.481	11.481	(1.000)	389645	50.0000	
37 Trichloroethene	95	11.886	11.885	(1.035)	54257	20.0000	21.3075
$ 38 Trifluorotoluene	146	12.250	12.250	(1.067)	66501	20.0000	20.6796(A)
39 1,2-Dichloropropane	63	12.299	12.299	(1.071)	67192	20.0000	20.9845
40 Dibromomethane	93	12.487	12.486	(1.088)	47338	20.0000	20.7441
41 Bromodichloromethane	83	12.635	12.634	(1.100)	81750	20.0000	20.3749
42 2-Chloroethylvinylether	63	12.989	12.989	(1.131)	39035	20.0000	18.9279
43 Tetramethyl THF	43	13.206	13.215	(1.150)	141617	20.0000	21.3080(A)
44 cis-1,3-Dichloropropene	75	13.255	13.255	(1.154)	95585	20.0000	20.4075
45 4-Methyl-2-Pentanone	43	13.403	13.403	(1.167)	87320	20.0000	21.3992
$ 46 Toluene-d8	98	13.590	13.590	(1.184)	409723	50.0000	48.7069
47 Toluene	92	13.679	13.679	(1.191)	116076	20.0000	19.7745
48 trans-1,3-Dichloropropene	75	14.014	14.014	(1.221)	92424	20.0000	20.6650
49 1,1,2-Trichloroethane	85	14.280	14.280	(1.244)	32684	20.0000	20.3809
50 Tetrachloroethene	166	14.399	14.398	(0.928)	44003	20.0000	20.8556
51 2-Hexanone	43	14.507	14.507	(0.935)	60092	20.0000	21.1326
52 1,3-Dichloropropane	76	14.527	14.526	(0.936)	104577	20.0000	21.2916
53 Dibromochloromethane	129	14.793	14.802	(0.953)	60692	20.0000	20.6125
54 1,2-Dibromoethane	107	15.000	15.009	(1.306)	59839	20.0000	20.1876
* 55 Chlorobenzene-d5	117	15.522	15.522	(1.000)	352075	50.0000	
56 Chlorobenzene	112	15.562	15.561	(1.003)	129378	20.0000	20.5498
57 Ethylbenzene	91	15.611	15.610	(1.006)	236876	20.0000	20.9298
58 1,1,1,2-Tetrachloroethane	131	15.640	15.650	(1.008)	49539	20.0000	20.2798
59 m,p-Xylenes	106	15.749	15.758	(1.015)	159497	40.0000	39.2026
60 o-Xylene	106	16.251	16.261	(1.047)	78065	20.0000	19.8618
61 Styrene	104	16.281	16.280	(1.049)	142946	20.0000	20.2337
62 Bromoform	173	16.586	16.586	(1.069)	42263	20.0000	20.2759
63 Isopropylbenzene	105	16.655	16.655	(0.913)	217636	20.0000	21.0863
64 Cyclohexanone	55	16.902	16.901	(0.926)	107480	200.000	204.9634(A)
$ 65 Bromofluorobenzene	95	16.912	16.911	(0.927)	233940	50.0000	49.6962
66 1,1,2,2-Tetrachloroethane	83	17.059	17.059	(0.935)	106764	20.0000	20.1705
67 Propylbenzene	91	17.119	17.128	(0.938)	322063	20.0000	20.8255
68 Bromobenzene	156	17.128	17.128	(0.938)	60962	20.0000	19.8052
69 1,2,3-Trichloropropane	110	17.148	17.158	(0.940)	24651	20.0000	20.7549
70 2-Chlorotoluene	91	17.296	17.296	(0.948)	216648	20.0000	20.8219
71 1,3,5-Trimethylbenzene	105	17.306	17.305	(0.948)	195219	20.0000	19.7781
72 4-Chlorotoluene	91	17.424	17.424	(0.955)	204327	20.0000	21.2619
73 tert-Butylbenzene	119	17.690	17.690	(0.969)	154480	20.0000	20.5494
74 1,2,4-Trimethylbenzene	105	17.749	17.759	(0.972)	203673	20.0000	20.4560
75 sec-Butylbenzene	105	17.937	17.936	(0.983)	277233	20.0000	20.5950
76 para-Isopropyl Toluene	119	18.084	18.084	(0.991)	198918	20.0000	19.7286

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL714.D
Report Date: 08-Dec-2004 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77	1,3-Dichlorobenzene	146	18.173	18.173	(0.996)	122540	20.0000	20.3636
* 78	1,4-Dichlorobenzene-d4	152	18.252	18.251	(1.000)	226493	50.0000	
79	1,4-Dichlorobenzene	146	18.282	18.281	(1.002)	133129	20.0000	20.2691
80	n-Butylbenzene	91	18.567	18.567	(1.017)	242527	20.0000	20.2424
81	1,2-Dichlorobenzene	146	18.755	18.764	(1.028)	124482	20.0000	21.2220
82	1,2-Dibromo-3-Chloropropane	75	19.760	19.759	(1.083)	19797	20.0000	20.1302
83	1,2,4-Trichlorobenzene	180	20.893	20.893	(1.145)	77783	20.0000	20.0376
84	Hexachlorobutadiene	225	21.011	21.011	(1.151)	29650	20.0000	20.1170
85	Naphthalene	128	21.346	21.346	(1.170)	226944	20.0000	20.5588
86	1,2,3-Trichlorobenzene	180	21.731	21.730	(1.191)	74322	20.0000	20.0246

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\HSV0A05.i\120704.b\EL714.D
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Instrument: HSV0A05.i
Operator: LW
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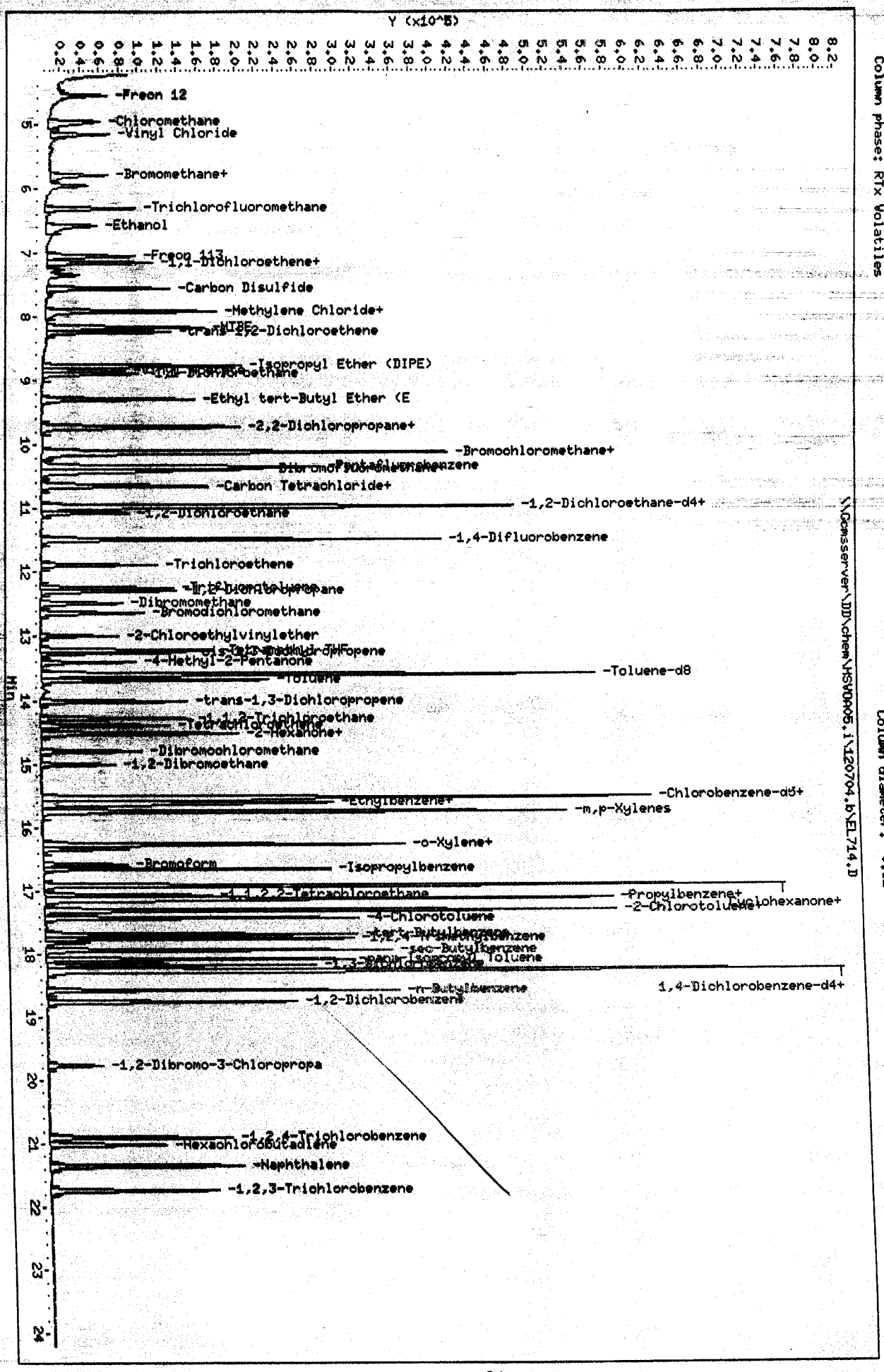

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL715.D
Report Date: 08-Dec-2004 11:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL715.D
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Operator : LW Inst ID: MSVOA05.i
Smp Info : ICAL,04WS2168,0.02/100,04SS408,0.01/100
Misc Info : 04WS2204,0.005/100,50 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\826GOX5.m
Meth Date : 08-Dec-2004 10:48 target Quant Type: ISTD
Cal Date : 07-DEC-2004 17:42 Cal File: EL715.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Freon 12	85	4.552	4.553	(0.440)	242642	50.0000	55.0716(M)
2 Chloromethane	50	4.956	4.957	(0.479)	316603	50.0000	50.8003
3 Vinyl Chloride	62	5.153	5.154	(0.499)	264552	50.0000	51.9271
4 Bromomethane	94	5.794	5.795	(0.561)	163982	50.0000	49.3110
5 Chloroethane	64	5.951	5.952	(0.576)	132390	50.0000	51.3655
6 Trichlorofluoromethane	101	6.306	6.307	(0.610)	280350	50.0000	52.2712
7 Ethanol	45	6.582	6.581	(0.637)	303710	5000.00	4748.0792(A)
8 Freon 113	101	7.045	7.046	(0.682)	134741	50.0000	48.3791
9 1,1-Dichloroethene	96	7.144	7.145	(0.691)	130287	50.0000	50.0991
10 Acetone	43	7.262	7.253	(0.703)	80463	50.0000	47.4948
11 Isopropanol	45	7.341	7.342	(0.710)	140381	500.000	450.4765(A)
12 Carbon Disulfide	76	7.548	7.549	(0.730)	564810	50.0000	48.8767
13 Methylene Chloride	84	7.903	7.904	(0.765)	184595	50.0000	50.2812
14 tert-Butyl Alcohol (TBA)	59	7.912	7.913	(0.765)	215811	500.000	492.3632(A)
15 MTBE	73	8.159	8.160	(0.789)	500788	50.0000	49.9254
16 trans-1,2-Dichloroethene	96	8.238	8.239	(0.797)	140979	50.0000	48.7845
17 Isopropyl Ether (DIPE)	45	8.770	8.771	(0.848)	638691	50.0000	52.0754(A)
18 Vinyl Acetate	43	8.849	8.850	(0.856)	417151	50.0000	51.7046
19 1,1-Dichloroethane	63	8.898	8.899	(0.861)	300694	50.0000	50.3977
20 Ethyl tert-Butyl Ether (ETBE)	59	9.292	9.283	(0.899)	510151	50.0000	54.9933(A)
21 2,2-Dichloropropane	77	9.706	9.707	(0.939)	208659	50.0000	50.9430
22 2-Butanone	43	9.706	9.707	(0.939)	122359	50.0000	51.9523

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL715.D
Report Date: 08-Dec-2004 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.726	9.727	(0.941)	155193	50.0000	49.8078
	24 Bromochloromethane	128	10.100	10.101	(0.977)	80951	50.0000	52.1433
	25 Tetrahydrofuran	42	10.100	10.101	(0.977)	657284	500.000	500.5283(A)
	26 Chloroform	83	10.130	10.131	(0.980)	288825	50.0000	49.5540
*	27 Pentafluorobenzene	168	10.337	10.338	(1.000)	222705	50.0000	
$	28 Dibromofluoromethane	113	10.386	10.387	(1.005)	169885	50.0000	49.7814
	29 1,1,1-Trichloroethane	97	10.426	10.426	(1.009)	206015	50.0000	48.8263
	30 Carbon Tetrachloride	117	10.623	10.624	(0.925)	171287	50.0000	49.3323
	31 1,1-Dichloropropene	75	10.642	10.643	(0.927)	198956	50.0000	51.8851
$	32 1,2-Dichloroethane-d4	65	10.948	10.949	(0.954)	213089	50.0000	49.9138
	33 Benzene	78	10.968	10.969	(0.955)	577967	50.0000	49.8236
	34 Methyl tert-Amyl Ether (TAME)	73	10.977	10.978	(0.956)	460300	50.0000	53.0153(A)
	35 1,2-Dichloroethane	62	11.066	11.067	(0.964)	240598	50.0000	50.5804
*	36 1,4-Difluorobenzene	114	11.480	11.481	(1.000)	413424	50.0000	
	37 Trichloroethene	95	11.884	11.885	(1.035)	141384	50.0000	52.3300
$	38 Trifluorotoluene	146	12.249	12.250	(1.067)	173366	50.0000	48.3716(A)
	39 1,2-Dichloropropane	63	12.298	12.299	(1.071)	170724	50.0000	50.2517
	40 Dibromomethane	93	12.485	12.486	(1.088)	123423	50.0000	50.9747
	41 Bromodichloromethane	83	12.633	12.634	(1.100)	221456	50.0000	52.0200
	42 2-Chloroethylvinylether	63	12.988	12.989	(1.131)	115201	50.0000	49.8575
	43 Tetramethyl THF	43	13.215	13.215	(1.151)	393800	50.0000	55.8441(A)
	44 cis-1,3-Dichloropropene	75	13.254	13.255	(1.155)	264957	50.0000	53.3151
	45 4-Methyl-2-Pentanone	43	13.402	13.403	(1.167)	218968	50.0000	50.5753
$	46 Toluene-d8	98	13.589	13.590	(1.184)	449693	50.0000	50.3837
	47 Toluene	92	13.678	13.679	(1.191)	323896	50.0000	52.0047
	48 trans-1,3-Dichloropropene	75	14.013	14.014	(1.221)	260084	50.0000	54.8073
	49 1,1,2-Trichloroethane	85	14.279	14.280	(1.244)	88606	50.0000	52.0745
	50 Tetrachloroethene	166	14.397	14.398	(0.928)	118712	50.0000	49.1867
	51 2-Hexanone	43	14.506	14.507	(0.935)	164449	50.0000	52.6747
	52 1,3-Dichloropropane	76	14.525	14.526	(0.936)	277906	50.0000	51.5354
	53 Dibromochloromethane	129	14.801	14.802	(0.954)	169690	50.0000	52.4916
	54 1,2-Dibromoethane	107	15.008	15.009	(1.307)	162801	50.0000	51.7643
*	55 Chlorobenzene-d5	117	15.521	15.532	(1.000)	386546	50.0000	
	56 Chlorobenzene	112	15.560	15.561	(1.003)	357810	50.0000	51.7647
	57 Ethylbenzene	91	15.609	15.610	(1.006)	641094	50.0000	51.5940
	58 1,1,1,2-Tetrachloroethane	131	15.649	15.650	(1.008)	134916	50.0000	50.3053
	59 m,p-Xylenes	106	15.757	15.758	(1.015)	469764	100.000	101.2392
	60 o-Xylene	106	16.260	16.261	(1.048)	235350	50.0000	51.4364
	61 Styrene	104	16.280	16.280	(1.049)	425497	50.0000	51.6997
	62 Bromoform	173	16.585	16.586	(1.069)	122493	50.0000	50.5229
	63 Isopropylbenzene	105	16.654	16.655	(0.913)	626212	50.0000	53.1209
	64 Cyclohexanone	55	16.900	16.901	(0.926)	316687	500.000	528.7524(A)
$	65 Bromofluorobenzene	95	16.920	16.911	(0.927)	265922	50.0000	49.4591
	66 1,1,2,2-Tetrachloroethane	83	17.058	17.059	(0.935)	284122	50.0000	46.9970
	67 Propylbenzene	91	17.127	17.128	(0.938)	918611	50.0000	52.0069
	68 Bromobenzene	156	17.127	17.128	(0.938)	183301	50.0000	52.1386
	69 1,2,3-Trichloropropane	110	17.157	17.158	(0.940)	69603	50.0000	51.3083
	70 2-Chlorotoluene	91	17.295	17.296	(0.948)	630895	50.0000	53.0880
	71 1,3,5-Trimethylbenzene	105	17.304	17.305	(0.948)	577769	50.0000	50.5848
	72 4-Chlorotoluene	91	17.423	17.424	(0.955)	571223	50.0000	52.0422
	73 tert-Butylbenzene	119	17.689	17.690	(0.969)	444330	50.0000	49.7723
	74 1,2,4-Trimethylbenzene	105	17.758	17.759	(0.973)	573030	50.0000	49.4830
	75 sec-Butylbenzene	105	17.935	17.936	(0.983)	758977	50.0000	48.9078
	76 para-Isopropyl Toluene	119	18.083	18.084	(0.991)	586986	50.0000	49.5629

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL715.D
Report Date: 08-Dec-2004 11:37

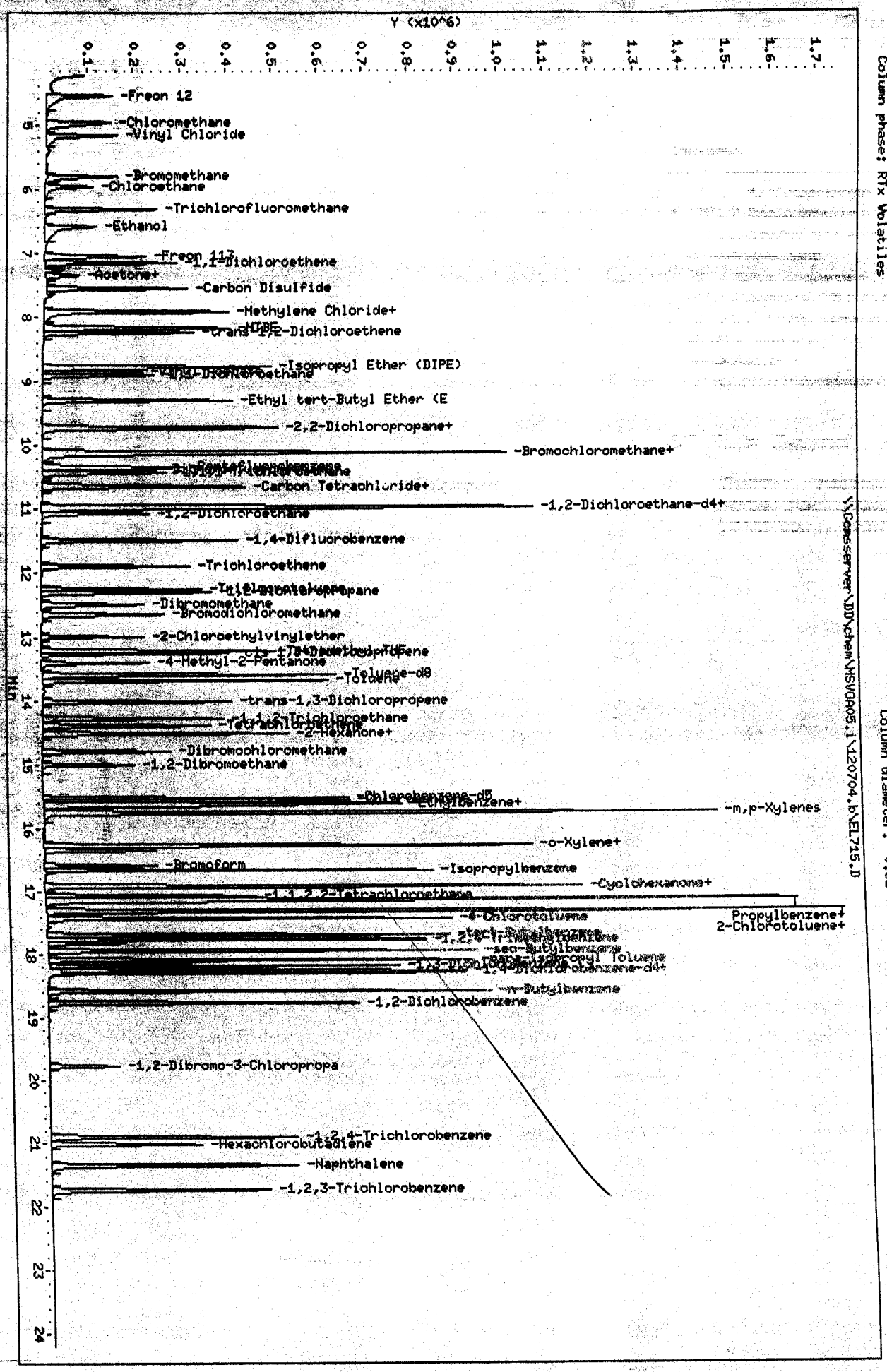
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.172	18.173	(0.996)	357420	50.0000	52.0031
* 78 1,4-Dichlorobenzene-d4	152	18.251	18.251	(1.000)	258691	50.0000	
79 1,4-Dichlorobenzene	146	18.280	18.281	(1.002)	376647	50.0000	50.2076
80 n-Butylbenzene	91	18.566	18.567	(1.017)	695033	50.0000	50 6771
81 1,2-Dichlorobenzene	146	18.763	18.764	(1.028)	344392	50.0000	51.4051
82 1,2-Dibromo-3-Chloropropane	75	19.758	19.759	(1.083)	56565	50.0000	50.3584
83 1,2,4-Trichlorobenzene	180	20.892	20.893	(1.145)	229031	50.0000	49.8295
84 Hexachlorobutadiene	225	21.010	21.011	(1.151)	86332	50.0000	49.3402
85 Naphthalene	128	21.345	21.346	(1.170)	655317	50.0000	49.6721
86 1,2,3-Trichlorobenzene	180	21.729	21.730	(1.191)	222440	50.0000	49.8770

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Comsserver\DD\chem\MSV0A05.i\120704.b\EL715.D
Date : 07-DEC-2004 17:42
Client ID: DYNA P&T
Sample Info: ICAL,04WS2168,0.02/100,04SS408,0.01/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSV0A05.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL716.D
Report Date: 08-Dec-2004 11:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL716.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 07-DEC-2004 18:14 MS Autotune Date: 03-DEC-2004 09:18
Operator : LW Inst ID: MSVOA05.i
Smp Info : ICAL,04WS2168,0.03/100,04SS408,0.015/100,
Misc Info : 04WS2204,0.0075/100,75 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\826GOX5.m
Meth Date : 08-Dec-2004 10:48 target Quant Type: ISTD
Cal Date : 07-DEC-2004 18:14 Cal File: EL716.D
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.553	4.553	(0.440)	382363	75.0000	77.5753(M) LW 12-8-04
2 Chloromethane	50	4.957	4.957	(0.480)	497866	75.0000	71.4085
3 Vinyl Chloride	62	5.154	5.154	(0.499)	425682	75.0000	74.6870
4 Bromomethane	94	5.795	5.795	(0.561)	289357	75.0000	69.7160
5 Chloroethane	64	5.952	5.952	(0.576)	205256	75.0000	71.1867
6 Trichlorofluoromethane	101	6.307	6.307	(0.610)	437734	75.0000	72.8127
7 Ethanol	45	6.573	6.583	(0.636)	504461	7500.00	7049.7379(A)
8 Freon 113	101	7.046	7.046	(0.682)	227859	75.0000	73.1325
9 1,1-Dichloroethene	96	7.145	7.145	(0.691)	213697	75.0000	74.7063
10 Acetone	43	7.253	7.253	(0.702)	110813	75.0000	58.4692
11 Isopropanol	45	7.342	7.342	(0.710)	236000	750.000	676.9590(A)
12 Carbon Disulfide	76	7.549	7.549	(0.730)	897040	75.0000	69.3902
13 Methylene Chloride	84	7.904	7.904	(0.765)	276514	75.0000	67.3270
14 tert-Butyl Alcohol (TBA)	59	7.913	7.913	(0.765)	327834	750.000	668.5787(A)
15 MTBE	73	8.160	8.160	(0.789)	793419	75.0000	70.7061
16 trans-1,2-Dichloroethene	96	8.239	8.239	(0.797)	239412	75.0000	76.0029
17 Isopropyl Ether (DIPE)	45	8.771	8.771	(0.848)	1009503	75.0000	73.5760(A)
18 Vinyl Acetate	43	8.850	8.850	(0.856)	636238	75.0000	70.5035
19 1,1-Dichloroethane	63	8.899	8.899	(0.861)	468365	75.0000	70.1710
20 Ethyl tert-Butyl Ether (ETBE)	59	9.283	9.283	(0.898)	781730	75.0000	75.3277(A)
21 2,2-Dichloropropane	77	9.707	9.707	(0.939)	335022	75.0000	73.1152
22 2-Butanone	43	9.707	9.707	(0.939)	179102	75.0000	67.9761

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL716.D
Report Date: 08-Dec-2004 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.727	9.727	(0.941)	246480	75.0000	70.7120
	24 Bromochloromethane	128	10.101	10.101	(0.977)	133148	75.0000	76.6651
	25 Tetrahydrofuran	42	10.101	10.101	(0.977)	1006285	750.000	684.9883(A)
	26 Chloroform	83	10.131	10.131	(0.980)	465835	75.0000	71.4434
*	27 Pentafluorobenzene	168	10.338	10.338	(1.000)	249140	50.0000	
$	28 Dibromofluoromethane	113	10.387	10.387	(1.005)	180263	50.0000	47.2196
	29 1,1,1-Trichloroethane	97	10.426	10.426	(1.009)	334463	75.0000	70.8581
	30 Carbon Tetrachloride	117	10.624	10.624	(0.925)	288233	75.0000	78.4492
	31 1,1-Dichloropropene	75	10.643	10.643	(0.927)	339321	75.0000	83.6247
$	32 1,2-Dichloroethane-d4	65	10.949	10.949	(0.954)	218665	50.0000	48.4035
	33 Benzene	78	10.969	10.969	(0.955)	918387	75.0000	74.8162
	34 Methyl tert-Amyl Ether (TAME)	73	10.978	10.978	(0.956)	737392	75.0000	80.2595(A)
	35 1,2-Dichloroethane	62	11.067	11.067	(0.964)	380224	75.0000	75.5383
*	36 1,4-Difluorobenzene	114	11.481	11.481	(1.000)	437480	50.0000	
	37 Trichloroethene	95	11.885	11.885	(1.035)	232732	75.0000	81.4036
$	38 Trifluorotoluene	146	12.250	12.250	(1.067)	306210	75.0000	76.4630(A)
	39 1,2-Dichloropropane	63	12.299	12.299	(1.071)	276877	75.0000	77.0159
	40 Dibromomethane	93	12.486	12.486	(1.088)	196010	75.0000	76.5022
	41 Bromodichloromethane	83	12.634	12.634	(1.100)	345488	75.0000	76.6925
	42 2-Chloroethylvinylether	63	12.989	12.989	(1.131)	190898	75.0000	77.1889
	43 Tetramethyl THF	43	13.206	13.215	(1.150)	579574	75.0000	77.6690(A)
	44 cis-1,3-Dichloropropene	75	13.255	13.255	(1.155)	425995	75.0000	81.0059
	45 4-Methyl-2-Pentanone	43	13.403	13.403	(1.167)	359261	75.0000	78.4161
$	46 Toluene-d8	98	13.590	13.590	(1.184)	484219	50.0000	51.2688
	47 Toluene	92	13.679	13.679	(1.191)	521456	75.0000	79.1211
	48 trans-1,3-Dichloropropene	75	14.014	14.014	(1.221)	402670	75.0000	80.1884
	49 1,1,2-Trichloroethane	85	14.280	14.280	(1.244)	139209	75.0000	77.3156
	50 Tetrachloroethene	166	14.398	14.398	(0.928)	205479	75.0000	75.2370
	51 2-Hexanone	43	14.507	14.507	(0.935)	253443	75.0000	75.2409
	52 1,3-Dichloropropane	76	14.526	14.526	(0.936)	427532	75.0000	73.4816
	53 Dibromochloromethane	129	14.792	14.802	(0.953)	271868	75.0000	77.9461
	54 1,2-Dibromoethane	107	14.999	15.009	(1.306)	262426	75.0000	78.8529
*	55 Chlorobenzene-d5	117	15.522	15.522	(1.000)	417060	50.0000	
	56 Chlorobenzene	112	15.561	15.561	(1.003)	569646	75.0000	76.3816
	57 Ethylbenzene	91	15.610	15.610	(1.006)	1069114	75.0000	79.7452
	58 1,1,1,2-Tetrachloroethane	131	15.640	15.650	(1.008)	205026	75.0000	77.7653
	59 m,p-Xylenes	106	15.748	15.758	(1.015)	782120	150.000	149.1887
	60 o-Xylene	106	16.251	16.261	(1.047)	376939	75.0000	73.5308
	61 Styrene	104	16.280	16.280	(1.049)	671639	75.0000	73.0575
	62 Bromoform	173	16.576	16.586	(1.068)	203696	75.0000	74.3457
	63 Isopropylbenzene	105	16.655	16.655	(0.913)	1049192	75.0000	83.7849
	64 Cyclohexanone	55	16.901	16.901	(0.926)	434390	750.000	682.7601(A)
$	65 Bromofluorobenzene	95	16.911	16.911	(0.927)	283990	50.0000	49.7235
	66 1,1,2,2-Tetrachloroethane	83	17.059	17.059	(0.935)	463303	75.0000	72.1435
	67 Propylbenzene	91	17.118	17.128	(0.938)	1498509	75.0000	79.8647
	68 Bromobenzene	156	17.128	17.128	(0.938)	304928	75.0000	81.6504
	69 1,2,3-Trichloropropane	110	17.148	17.158	(0.940)	110849	75.0000	76.9232
	70 2-Chlorotoluene	91	17.296	17.296	(0.948)	982628	75.0000	77.8386
	71 1,3,5-Trimethylbenzene	105	17.305	17.305	(0.948)	906451	75.0000	74.5103
	72 4-Chlorotoluene	91	17.424	17.424	(0.955)	886831	75.0000	76.0602
	73 tert-Butylbenzene	119	17.690	17.690	(0.969)	732764	75.0000	74.8637
	74 1,2,4-Trimethylbenzene	105	17.759	17.759	(0.973)	939879	75.0000	75.2303
	75 sec-Butylbenzene	105	17.936	17.936	(0.983)	1256160	75.0000	76.0185
	76 para-Isopropyl Toluene	119	18.084	18.084	(0.991)	966172	75.0000	75.7739

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL716.D
Report Date: 08-Dec-2004 11:37

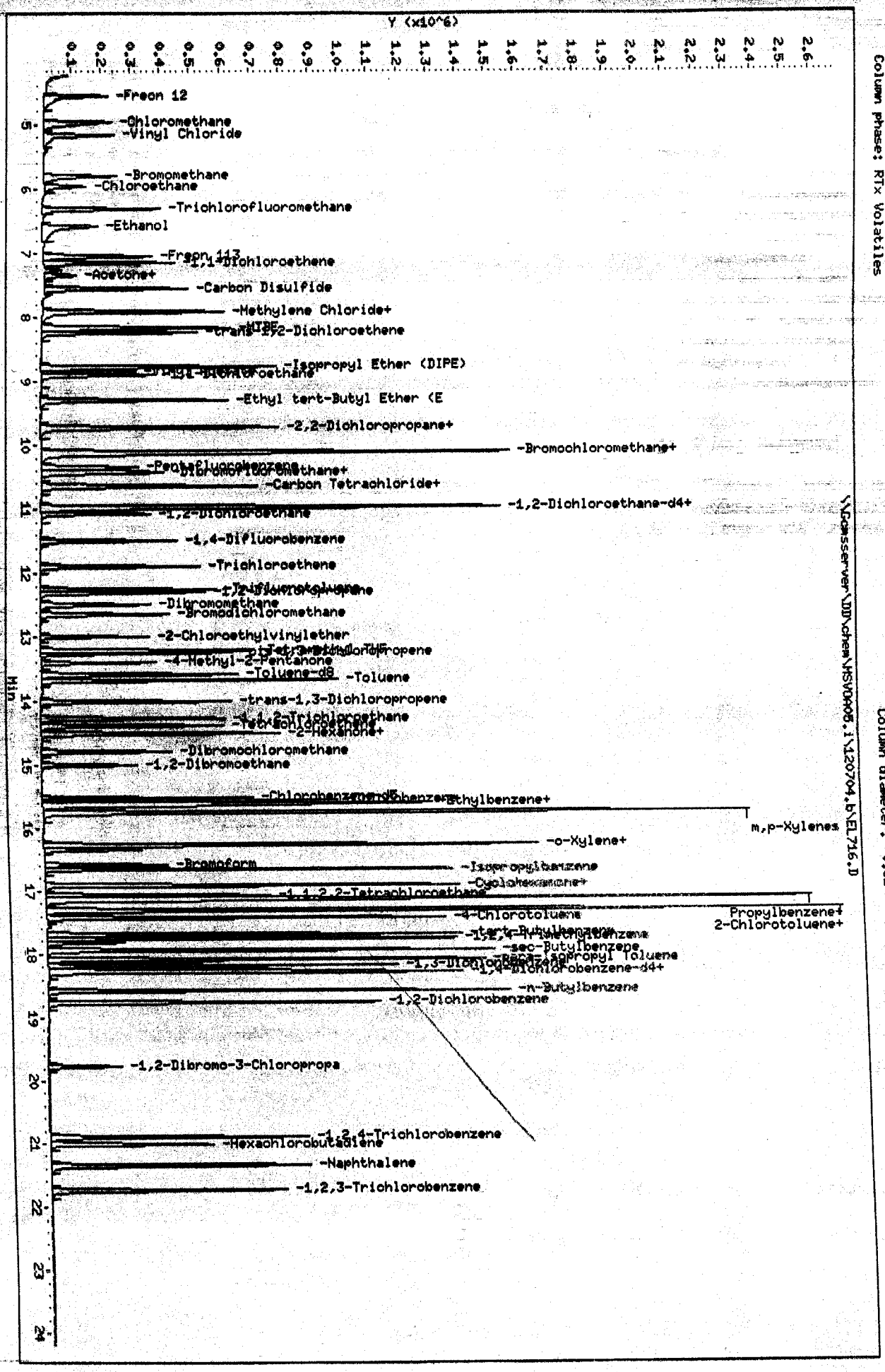
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.173	18.173	(0.996)	566075	75.0000	77.5338
* 78 1,4-Dichlorobenzene-d4	152	18.251	18.251	(1.000)	274799	50.0000	
79 1,4-Dichlorobenzene	146	18.281	18.281	(1.002)	604751	75.0000	75.8889
80 n-Butylbenzene	91	18.567	18.567	(1.017)	1119969	75.0000	76.8351
81 1,2-Dichlorobenzene	146	18.764	18.764	(1.028)	571351	75.0000	80.2829
82 1,2-Dibromo-3-Chloropropane	75	19.759	19.759	(1.083)	87229	75.0000	73.1056
83 1,2,4-Trichlorobenzene	180	20.893	20.893	(1.145)	374454	75.0000	75.4080
84 Hexachlorobutadiene	225	21.011	21.011	(1.151)	144755	75.0000	75.6847
85 Naphthalene	128	21.346	21.346	(1.170)	1088607	75.0000	75.1165
86 1,2,3-Trichlorobenzene	180	21.730	21.730	(1.191)	369520	75.0000	75.1958

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\HSVOA05.i\120704.b\EL716.D
Date : 07-DEC-2004 18:14
Client ID: DYNA P&T
Sample Info: ICAL,04WS2168,0.03/100,04SS408,0.015/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: HSVOA05.i
Operator: LW
Column diameter: 0.32



Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL717.D
Report Date: 08-Dec-2004 11:37

Laboratory Name

Data file : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL717.D
Lab Smp Id: Client Smp ID: DYNA P&T
Inj Date : 07-DEC-2004 18:45 MS Autotune Date: 03-DEC-2004 09:18
Operator : LW Inst ID: MSVOA05.i
Smp Info : ICAL,04WS2168,0.04/100,04SS408,0.02/100,
Misc Info : 04WS2204,0.01/100,100 PPB, NP NL
Comment :
Method : \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\826GOX5.m
Meth Date : 08-Dec-2004 10:48 target Quant Type: ISTD
Cal Date : 07-DEC-2004 18:45 Cal File: EL717.D
Als bottle: 17 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.10
Processing Host: PC_MSVOA_WK02

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume purged (mL)
Uf	5.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Freon 12	85	4.553	4.553	(0.440)	505322	100.000	92.5141(M) LW 12-8-04
2 Chloromethane	50	4.957	4.957	(0.480)	658629	100.000	85.2452
3 Vinyl Chloride	62	5.154	5.154	(0.499)	568962	100.000	90.0813
4 Bromomethane	94	5.795	5.795	(0.561)	353013	100.000	85.6282
5 Chloroethane	64	5.952	5.952	(0.576)	276232	100.000	86.4506
6 Trichlorofluoromethane	101	6.307	6.307	(0.610)	596126	100.000	89.4801
7 Ethanol	45	6.583	6.583	(0.637)	666265	10000.0	8402.0176(A)
8 Freon 113	101	7.046	7.046	(0.682)	341317	100.000	98.8538
9 1,1-Dichloroethene	96	7.145	7.145	(0.691)	312384	100.000	100.1359
10 Acetone	43	7.253	7.253	(0.702)	143956	100.000	68.5422
11 Isopropanol	45	7.342	7.342	(0.710)	325171	1000.00	841.6924(A)
12 Carbon Disulfide	76	7.549	7.549	(0.730)	1258255	100.000	87.8307
13 Methylene Chloride	84	7.904	7.904	(0.765)	390224	100.000	85.7388
14 tert-Butyl Alcohol (TBA)	59	7.913	7.913	(0.765)	466008	1000.00	857.5967(A)
15 MTBE	73	8.160	8.160	(0.789)	1116228	100.000	89.7632
16 trans-1,2-Dichloroethene	96	8.239	8.239	(0.797)	341082	100.000	99.6848
17 Isopropyl Ether (DIPE)	45	8.771	8.771	(0.848)	1350542	100.000	88.8235(A)
18 Vinyl Acetate	43	8.850	8.850	(0.856)	911006	100.000	91.0826
19 1,1-Dichloroethane	63	8.899	8.899	(0.861)	677651	100.000	91.6158
20 Ethyl tert-Butyl Ether (ETBE)	59	9.283	9.283	(0.898)	1145287	100.000	99.5872(A)
21 2,2-Dichloropropane	77	9.707	9.707	(0.939)	475264	100.000	93.5967
22 2-Butanone	43	9.707	9.707	(0.939)	248480	100.000	85.1017

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL717.D
Report Date: 08-Dec-2004 11:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	23 cis-1,2-Dichloroethene	96	9.727	9.727	(0.941)	359927	100.000	93.1788
	24 Bromochloromethane	128	10.101	10.101	(0.977)	191920	100.000	99.7182
	25 Tetrahydrofuran	42	10.101	10.101	(0.977)	1365460	1000.00	838.7496(A)
	26 Chloroform	83	10.131	10.131	(0.980)	639530	100.000	88.5080
*	27 Pentafluorobenzene	168	10.338	10.338	(1.000)	276091	50.0000	
$	28 Dibromofluoromethane	113	10.387	10.387	(1.005)	188871	50.0000	44.6450
	29 1,1,1-Trichloroethane	97	10.426	10.426	(1.009)	487378	100.000	93.1749
	30 Carbon Tetrachloride	117	10.624	10.624	(0.925)	418678	100.000	103.5861
	31 1,1-Dichloropropene	75	10.643	10.643	(0.927)	484920	100.000	108.6352
$	32 1,2-Dichloroethane-d4	65	10.949	10.949	(0.954)	222602	50.0000	44.7922
	33 Benzene	78	10.969	10.969	(0.955)	1333207	100.000	98.7289
	34 Methyl tert-Amyl Ether (TAME)	73	10.978	10.978	(0.956)	1088308	100.000	107.6779(A)
	35 1,2-Dichloroethane	62	11.067	11.067	(0.964)	534312	100.000	96.4938
*	36 1,4-Difluorobenzene	114	11.481	11.481	(1.000)	481262	50.0000	
	37 Trichloroethene	95	11.885	11.885	(1.035)	338298	100.000	107.5632
$	38 Trifluorotoluene	146	12.250	12.250	(1.067)	462008	100.000	99.5096(A)
	39 1,2-Dichloropropane	63	12.299	12.299	(1.071)	405033	100.000	102.4143
	40 Dibromomethane	93	12.486	12.486	(1.088)	287175	100.000	101.8871
	41 Bromodichloromethane	83	12.634	12.634	(1.100)	504264	100.000	101.7548
	42 2-Chloroethylvinylether	63	12.989	12.989	(1.131)	269509	100.000	98.6173
	43 Tetramethyl THF	43	13.215	13.215	(1.151)	813126	100.000	99.0543(A)
	44 cis-1,3-Dichloropropene	75	13.255	13.255	(1.155)	611647	100.000	105.7279
	45 4-Methyl-2-Pentanone	43	13.403	13.403	(1.167)	498848	100.000	98.9783
$	46 Toluene-d8	98	13.590	13.590	(1.184)	530585	50.0000	51.0673
	47 Toluene	92	13.679	13.679	(1.191)	775260	100.000	106.9298
	48 trans-1,3-Dichloropropene	75	14.014	14.014	(1.221)	590936	100.000	106.9742
	49 1,1,2-Trichloroethane	85	14.280	14.280	(1.244)	200721	100.000	101.3373
	50 Tetrachloroethene	166	14.398	14.398	(0.928)	314203	100.000	100.0083
	51 2-Hexanone	43	14.507	14.507	(0.935)	363070	100.000	98.9551
	52 1,3-Dichloropropane	76	14.526	14.526	(0.936)	630071	100.000	99.4200
	53 Dibromochloromethane	129	14.802	14.802	(0.954)	416843	100.000	109.7193
	54 1,2-Dibromoethane	107	15.009	15.009	(1.307)	414799	100.000	113.2988
*	55 Chlorobenzene-d5	117	15.522	15.522	(1.000)	454281	50.0000	
	56 Chlorobenzene	112	15.561	15.561	(1.003)	830163	100.000	102.1930
	57 Ethylbenzene	91	15.610	15.610	(1.006)	1585537	100.000	108.5753
	58 1,1,1,2-Tetrachloroethane	131	15.650	15.650	(1.008)	339942	100.000	107.8529
	59 m,p-Xylenes	106	15.758	15.758	(1.015)	1136830	200.000	200.1689(A)
	60 o-Xylene	106	16.261	16.261	(1.048)	586521	100.000	100.4048
	61 Styrene	104	16.280	16.280	(1.049)	1056441	100.000	100.5466
	62 Bromoform	173	16.586	16.586	(1.069)	316897	100.000	100.2072
	63 Isopropylbenzene	105	16.655	16.655	(0.913)	1545280	100.000	112.6962
	64 Cyclohexanone	55	16.901	16.901	(0.926)	448630	1000.00	643.9737(A)
$	65 Bromofluorobenzene	95	16.911	16.911	(0.927)	298154	50.0000	47.6750
	66 1,1,2,2-Tetrachloroethane	83	17.059	17.059	(0.935)	660078	100.000	93.8683
	67 Propylbenzene	91	17.128	17.128	(0.938)	2133382	100.000	103.8379
	68 Bromobenzene	156	17.128	17.128	(0.938)	452919	100.000	110.7575
	69 1,2,3-Trichloropropane	110	17.158	17.158	(0.940)	163707	100.000	103.7491
	70 2-Chlorotoluene	91	17.296	17.296	(0.948)	1419710	100.000	102.7063
	71 1,3,5-Trimethylbenzene	105	17.305	17.305	(0.948)	1335694	100.000	100.1254
	72 4-Chlorotoluene	91	17.424	17.424	(0.955)	1301154	100.000	101.9147
	73 tert-Butylbenzene	119	17.690	17.690	(0.969)	1110115	100.000	100.1004
	74 1,2,4-Trimethylbenzene	105	17.759	17.759	(0.973)	1388757	100.000	99.9729
	75 sec-Butylbenzene	105	17.936	17.936	(0.983)	1804644	100.000	99.6351
	76 para-Isopropyl Toluene	119	18.084	18.084	(0.991)	1406535	100.000	99.6735

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL717.D
Report Date: 08-Dec-2004 11:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
77 1,3-Dichlorobenzene	146	18.173	18.173	(0.996)	829076	100.000	103.7058
* 78 1,4-Dichlorobenzene-d4	152	18.251	18.251	(1.000)	300901	50.0000	
79 1,4-Dichlorobenzene	146	18.281	18.281	(1.002)	874887	100.000	100.2640
80 n-Butylbenzene	91	18.567	18.567	(1.017)	1567748	100.000	98.2040
81 1,2-Dichlorobenzene	146	18.764	18.764	(1.028)	827696	100.000	106.2141
82 1,2-Dibromo-3-Chloropropane	75	19.759	19.759	(1.083)	121254	100.000	92.8063
83 1,2,4-Trichlorobenzene	180	20.893	20.893	(1.145)	550430	100.000	99.8159
84 Hexachlorobutadiene	225	21.011	21.011	(1.151)	214599	100.000	99.7650
85 Naphthalene	128	21.346	21.346	(1.170)	1642077	100.000	99.9919
86 1,2,3-Trichlorobenzene	180	21.730	21.730	(1.191)	558406	100.000	99.9233

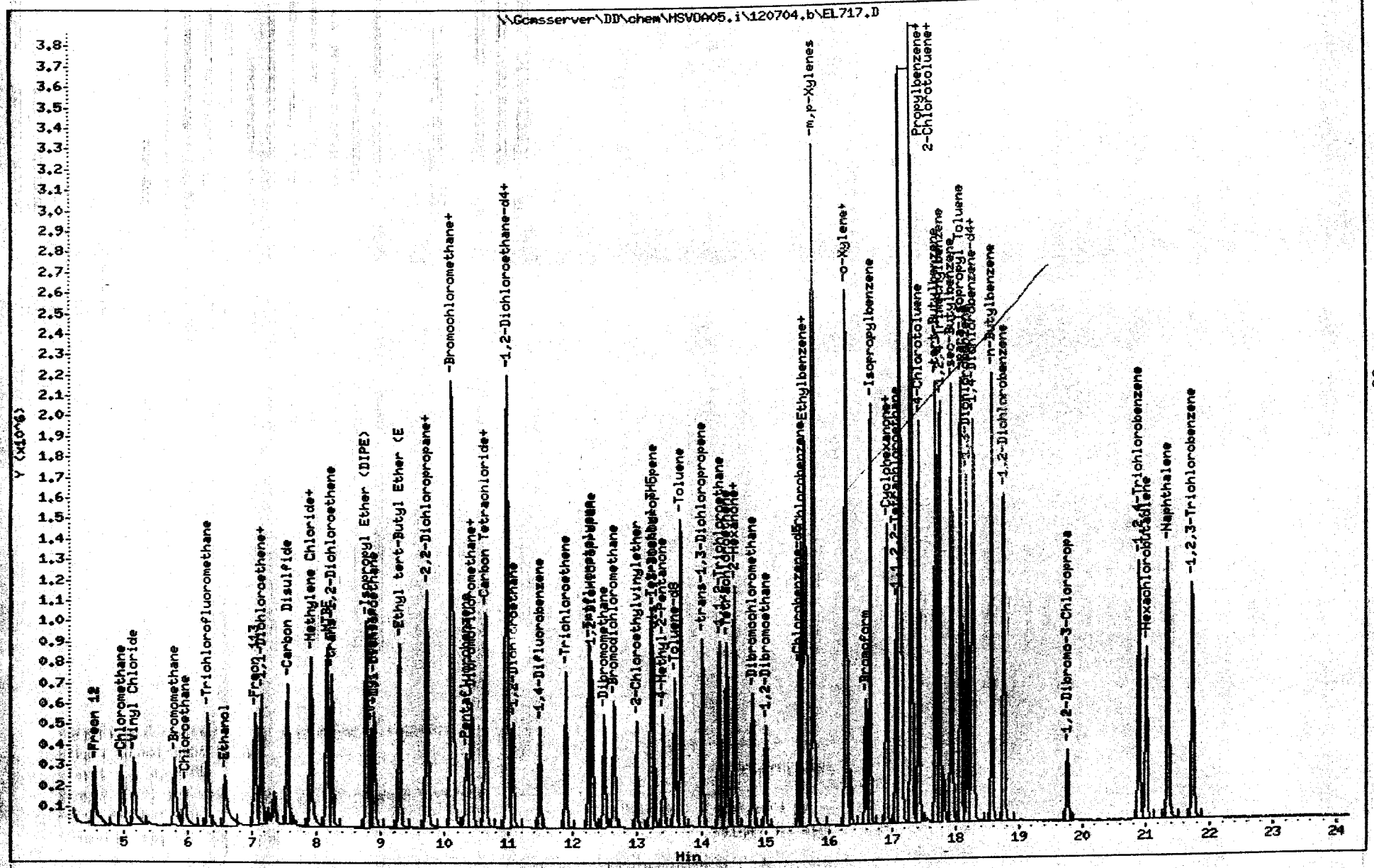
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Gcmsserver\DD\chem\MSVOA05.i\120704.b\EL717.D
Date : 07-DEC-2004 18:45
Client ID: DYNA P&T
Sample Info: ICAL,04WS2168,0.04/100,04SS408,0.02/100,
Purge Volume: 5.0
Column phase: RTx Volatiles

Instrument: MSVOA05.i

Operator: LW
Column diameter: 0.32



SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA05 Run Name : 50 PPB Injected : 07-DEC-2004 19:17
Seqnum : 444493014018 Filename : el718 Caltype : WATER
Calnum : 444493014001 Caldate : 07-DEC-2004
Standards: 04WS2304 (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	45.36620	ug/L	-9	30	m
Chloromethane	50.00000	37.57840	ug/L	-25	30	!v-
Vinyl Chloride	50.00000	40.88190	ug/L	-18	20	
Bromomethane	50.00000	42.24240	ug/L	-16	30	
Chloroethane	50.00000	41.75390	ug/L	-16	30	
Trichlorofluoromethane	50.00000	44.77060	ug/L	-10	30	

ISTD (ICAL=el715)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	222705	274950	23.46	10.34	10.34	0.00
1,4-Difluorobenzene	413424	473482	14.53	11.48	11.48	0.00
Chlorobenzene-d5	386546	437564	13.20	15.52	15.52	0.00
1,4-Dichlorobenzene-d4	258691	245692	-5.02	18.25	18.25	0.00

LW 12-8-04

12/08/04

!=warning -=low bias m=manual integration v=ICV
Page 1 of 1

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA05 Run Name : 50 PPB Injected : 07-DEC-2004 19:49
Seqnum : 444493014019 Filename : el719 Caltype : WATER
Calnum : 444493014001 Caldate : 07-DEC-2004
Standards: 04WS1940 (5000X), 04WS1968 (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Acetone	50.00000	48.21090	ug/L	-4	40	
Freon 113	50.00000	47.17500	ug/L	-6	30	
1,1-Dichloroethene	50.00000	42.46790	ug/L	-15	20	
Methylene Chloride	50.00000	43.63670	ug/L	-13	30	
Carbon Disulfide	50.00000	32.91710	ug/L	-34	30	v- ***
MTBE	50.00000	43.79030	ug/L	-12	30	
trans-1,2-Dichloroethene	50.00000	45.39820	ug/L	-9	30	
Vinyl Acetate	50.00000	41.02100	ug/L	-18	40	
1,1-Dichloroethane	50.00000	46.12290	ug/L	-8	30	
2-Butanone	50.00000	50.64060	ug/L	1	40	
2,2-Dichloropropane	50.00000	42.28310	ug/L	-15	30	
cis-1,2-Dichloroethene	50.00000	45.51170	ug/L	-9	30	
Chloroform	50.00000	45.54870	ug/L	-9	20	
Bromochloromethane	50.00000	48.55090	ug/L	-3	30	
1,1,1-Trichloroethane	50.00000	46.72930	ug/L	-7	30	
1,1-Dichloropropene	50.00000	48.61190	ug/L	-3	30	
Carbon Tetrachloride	50.00000	48.52670	ug/L	-3	30	
1,2-Dichloroethane	50.00000	48.91490	ug/L	-2	30	
Benzene	50.00000	48.56580	ug/L	-3	30	
Trichloroethene	50.00000	52.37390	ug/L	5	30	
1,2-Dichloropropane	50.00000	47.12130	ug/L	-6	20	
Bromodichloromethane	50.00000	52.26170	ug/L	5	30	
Dibromomethane	50.00000	50.91810	ug/L	2	30	
2-Chloroethylvinylether	50.00000	14.97960	ug/L	-70	40	v- ***
4-Methyl-2-Pentanone	50.00000	55.24500	ug/L	10	40	
Tetramethyl THF	50.00000	54.13730	ug/L	8	30	
cis-1,3-Dichloropropene	50.00000	51.17360	ug/L	2	30	
Toluene	50.00000	51.47270	ug/L	3	20	
trans-1,3-Dichloropropene	50.00000	46.82400	ug/L	-6	30	
1,1,2-Trichloroethane	50.00000	50.18580	ug/L	0	30	
2-Hexanone	50.00000	56.11860	ug/L	12	40	
1,3-Dichloropropane	50.00000	49.43010	ug/L	-1	30	
Tetrachloroethene	50.00000	52.10240	ug/L	4	30	
Dibromochloromethane	50.00000	51.67460	ug/L	3	30	
1,2-Dibromoethane	50.00000	53.95480	ug/L	8	30	
Chlorobenzene	50.00000	49.63840	ug/L	-1	30	
1,1,1,2-Tetrachloroethane	50.00000	51.89790	ug/L	4	30	
Ethylbenzene	50.00000	52.72850	ug/L	5	20	
m,p-Xylenes	100.0000	98.71270	ug/L	-1	30	
o-Xylene	50.00000	51.18260	ug/L	2	30	
Styrene	50.00000	52.67500	ug/L	5	30	
Bromoform	50.00000	52.62650	ug/L	5	30	
Isopropylbenzene	50.00000	49.41210	ug/L	-1	30	
1,1,2,2-Tetrachloroethane	50.00000	47.15890	ug/L	-6	30	
1,2,3-Trichloropropane	50.00000	51.16510	ug/L	2	30	
Propylbenzene	50.00000	49.60240	ug/L	-1	30	
Bromobenzene	50.00000	52.31430	ug/L	5	30	

-=low bias m=manual integration v=ICV
Page 1 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA05 Run Name : 50 PPB
Seqnum : 444493014019 Filename : el719 Injected : 07-DEC-2004 19:49
Calnum : 444493014001 Caldate : 07-DEC-2004 Caltype : WATER
Standards: 04WS1940 (5000X), 04WS1968 (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	49.97690	ug/L	0	30	
2-Chlorotoluene	50.00000	51.03710	ug/L	2	30	
4-Chlorotoluene	50.00000	51.64530	ug/L	3	30	
tert-Butylbenzene	50.00000	49.24300	ug/L	-2	30	
1,2,4-Trimethylbenzene	50.00000	51.12300	ug/L	2	30	
sec-Butylbenzene	50.00000	48.63500	ug/L	-3	30	
para-Isopropyl Toluene	50.00000	48.47050	ug/L	-3	30	
1,3-Dichlorobenzene	50.00000	49.60090	ug/L	-1	30	
1,4-Dichlorobenzene	50.00000	48.94540	ug/L	-2	30	
n-Butylbenzene	50.00000	48.65300	ug/L	-3	30	
1,2-Dichlorobenzene	50.00000	51.10630	ug/L	2	30	
1,2-Dibromo-3-Chloropropane	50.00000	52.49300	ug/L	5	30	
1,2,4-Trichlorobenzene	50.00000	48.31400	ug/L	-3	30	
Hexachlorobutadiene	50.00000	50.59130	ug/L	1	30	
Naphthalene	50.00000	51.75450	ug/L	4	30	
1,2,3-Trichlorobenzene	50.00000	50.89150	ug/L	2	30	
tert-Butyl Alcohol (TBA)	250.0000	261.7472	ug/L	5	30	
Isopropyl Ether (DIPE)	50.00000	47.07950	ug/L	-6	30	
Ethyl tert-Butyl Ether (ETBE)	50.00000	52.63590	ug/L	5	30	
Methyl tert-Amyl Ether (TAME)	50.00000	52.73190	ug/L	5	30	
Cyclohexanone	500.0000	172.1676	ug/L	-66	30	v- ***
Ethanol	5000.000	4511.107	ug/L	-10	30	m
Isopropanol	500.0000	495.8794	ug/L	-1	30	
Tetrahydrofuran	500.0000	496.5638	ug/L	-1	30	

ISTD (ICAL=el715)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	222705	259905	16.70	10.34	10.34	0.00
1,4-Difluorobenzene	413424	456730	10.47	11.48	11.48	0.00
Chlorobenzene-d5	386546	422316	9.25	15.52	15.52	0.00
1,4-Dichlorobenzene-d4	258691	277808	7.39	18.25	18.25	0.00

LW 12-8-04

12/8/04

-=low bias m=manual integration v=ICV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA05 Run Name : QC276920 IDF : 1.0
Seqnum : 444511710003 Filename : elk03 Injected : 20-DEC-2004 09:34
Calnum : 444493014001 Caldate : 07-DEC-2004 Caltype : WATER
Standards: 04WS2168 (10000X), 04WS2204 (40000X), 04SS440 (20000X), 04WS2343 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
1,1-Dichloroethene	0.6392	0.6187	25.00000	25.96570	ug/L	4	20	0.0500	
Benzene	1.4029	1.4902	25.00000	26.55450	ug/L	6	30	0.0500	
Trichloroethene	0.3268	0.3351	25.00000	25.63540	ug/L	3	30	0.0500	
Toluene	0.7532	0.7882	25.00000	26.15870	ug/L	5	20	0.0500	
Chlorobenzene	0.8941	0.9378	25.00000	26.22190	ug/L	5	30	0.3000	
Freon 12	0.9892	1.2554	25.00000	31.72720	ug/L	**27**	30	0.0500	!c+
Chloromethane	1.3992	1.7030	25.00000	30.42810	ug/L	**22**	30	0.1000	!c+ !v-
Vinyl Chloride	1.1438	1.3648	25.00000	29.82920	ug/L	19	20	0.0500	
Bromomethane	0.7466	0.7891	25.00000	26.42270	ug/L	6	30	0.0500	
Chloroethane	0.5787	0.6800	25.00000	29.37920	ug/L	18	30	0.0500	
Trichlorofluoromethane	1.2065	1.4424	25.00000	29.88800	ug/L	20	30	0.0500	
Acetone	0.3804	0.5367	25.00000	35.27590	ug/L	**41**	40	0.0500	c+ ***
Freon 113	0.6253	0.7034	25.00000	28.12400	ug/L	12	30	0.0500	
Methylene Chloride	0.8242	0.9345	25.00000	28.34350	ug/L	13	30	0.0500	
MTBE	2.2520	2.2301	25.00000	24.75630	ug/L	-1	30	0.0500	
Carbon Disulfide	2.5944	2.7575	25.00000	26.57120	ug/L	6	30	0.0500	v- ***
trans-1,2-Dichloroethene	0.7077	0.7190	25.00000	26.97780	ug/L	8	30	0.0500	
Vinyl Acetate	1.8114	2.0096	25.00000	27.73600	ug/L	11	40	0.0500	
1,1-Dichloroethane	1.3395	1.4964	25.00000	27.92760	ug/L	12	30	0.1000	
2-Butanone	0.5288	0.5994	25.00000	28.33900	ug/L	13	40	0.0500	
cis-1,2-Dichloroethene	0.6995	0.6764	25.00000	24.17390	ug/L	-3	30	0.0500	
2,2-Dichloropropane	0.9196	1.0421	25.00000	28.33130	ug/L	13	30	0.0500	
Chloroform	1.3086	1.4182	25.00000	27.09370	ug/L	8	20	0.0500	
Bromochloromethane	0.3485	0.3690	25.00000	26.47030	ug/L	6	30	0.0500	
1,1,1-Trichloroethane	0.9473	1.0031	25.00000	26.47290	ug/L	6	30	0.0500	
1,1-Dichloropropene	0.4638	0.4539	25.00000	24.46720	ug/L	-2	30	0.0500	
Carbon Tetrachloride	0.4199	0.4526	25.00000	26.94320	ug/L	8	30	0.0500	
1,2-Dichloroethane	0.5753	0.6667	25.00000	28.97160	ug/L	16	30	0.0500	
1,2-Dichloropropane	0.4109	0.4221	25.00000	25.68400	ug/L	3	20	0.0500	
Bromodichloromethane	0.5149	0.5630	25.00000	27.33730	ug/L	9	30	0.0500	
Dibromomethane	0.2928	0.3081	25.00000	26.30530	ug/L	5	30	0.0500	
4-Methyl-2-Pentanone	0.5236	0.4999	25.00000	23.86800	ug/L	-5	40	0.0500	
cis-1,3-Dichloropropene	0.6010	0.6465	25.00000	26.88930	ug/L	8	30	0.0500	
trans-1,3-Dichloropropene	0.5739	0.5864	25.00000	25.54250	ug/L	2	30	0.0500	
1,1,2-Trichloroethane	0.2058	0.2152	25.00000	26.14370	ug/L	5	30	0.0500	
2-Hexanone	0.4038	0.3741	25.00000	23.16190	ug/L	-7	40	0.0500	
1,3-Dichloropropane	0.6975	0.7019	25.00000	25.15660	ug/L	1	30	0.0500	
Tetrachloroethene	0.2970	0.3118	25.00000	25.85920	ug/L	3	30	0.0500	
Dibromochloromethane	0.4182	0.4220	25.00000	25.23090	ug/L	1	30	0.0500	
1,2-Dibromoethane	0.3804	0.3892	25.00000	25.57850	ug/L	2	30	0.0500	
2-Chloroethylvinylether	0.2429	0.1423	25.00000	13.89870	ug/L	**-44**	40	0.0500	c- v- *
1,1,1,2-Tetrachloroethane	0.3469	0.3725	25.00000	26.84180	ug/L	7	30	0.0500	
Ethylbenzene	1.6073	1.6980	25.00000	26.41050	ug/L	6	20	0.0500	
m,p-Xylenes	0.5476	0.6009	50.00000	51.45840	ug/L	3	30	0.0500	
o-Xylene	0.5255	0.5638	25.00000	24.92310	ug/L	0	30	0.0500	
Styrene	0.9451	1.0344	25.00000	25.45360	ug/L	2	30	0.0500	

!=warning +=high bias -=low bias c=CCV m=manual integration v=ICV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA05 Run Name : QC276920 IDF : 1.0
Seqnum : 444511710003 Filename : elk03 Injected : 20-DEC-2004 09:34
Calnum : 444493014001 Caldate : 07-DEC-2004 Caltype : WATER
Standards: 04WS2168 (10000X), 04WS2204 (40000X), 04SS440 (20000X), 04WS2343 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Bromoform	0.2898	0.3098	25.00000	25.85760	ug/L	3	30	0.1000	
Isopropylbenzene	2.2785	2.2202	25.00000	24.36070	ug/L	-3	30	0.0500	
1,1,2,2-Tetrachloroethane	1.1685	1.0962	25.00000	23.45450	ug/L	-6	30	0.3000	
1,2,3-Trichloropropane	0.2622	0.2759	25.00000	26.30320	ug/L	5	30	0.0500	
Propylbenzene	3.4140	3.4991	25.00000	25.62320	ug/L	2	30	0.0500	
Bromobenzene	0.6795	0.6932	25.00000	25.50490	ug/L	2	30	0.0500	
1,3,5-Trimethylbenzene	2.0339	2.1449	25.00000	24.50700	ug/L	-2	30	0.0500	
2-Chlorotoluene	2.2969	2.3376	25.00000	25.44270	ug/L	2	30	0.0500	
4-Chlorotoluene	2.1215	2.1385	25.00000	25.20030	ug/L	1	30	0.0500	
tert-Butylbenzene	1.5566	1.6373	25.00000	24.51480	ug/L	-2	30	0.0500	
1,2,4-Trimethylbenzene	2.0959	2.2094	25.00000	25.05100	ug/L	0	30	0.0500	
sec-Butylbenzene	2.7527	2.8653	25.00000	24.04980	ug/L	-4	30	0.0500	
para-Isopropyl Toluene	2.0696	2.1411	25.00000	23.89120	ug/L	-4	30	0.0500	
1,3-Dichlorobenzene	1.3284	1.3677	25.00000	25.73870	ug/L	3	30	0.0500	
1,4-Dichlorobenzene	1.4499	1.4762	25.00000	25.45200	ug/L	2	30	0.0500	
n-Butylbenzene	2.4538	2.5132	25.00000	23.74180	ug/L	-5	30	0.0500	
1,2-Dichlorobenzene	1.2949	1.3099	25.00000	25.28970	ug/L	1	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2171	0.2102	25.00000	24.20670	ug/L	-3	30	0.0500	
1,2,4-Trichlorobenzene	0.7853	0.8161	25.00000	23.63370	ug/L	-5	30	0.0500	
Hexachlorobutadiene	0.2924	0.3593	25.00000	27.28350	ug/L	9	30	0.0500	
Naphthalene	2.2904	2.3208	25.00000	23.65920	ug/L	-5	30	0.0500	
1,2,3-Trichlorobenzene	0.7856	0.8029	25.00000	24.27070	ug/L	-3	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0984	0.1052	250.0000	267.2452	ug/L	7	30	0.0050	
Isopropyl Ether (DIPE)	2.7536	2.8120	25.00000	25.53000	ug/L	2	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.0827	2.0088	25.00000	24.11280	ug/L	-4	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.0501	1.0270	25.00000	24.45010	ug/L	-2	30	0.0500	
Isopropanol	0.0700	0.0755	250.0000	269.8343	ug/L	8	30	0.0050	
Ethanol	0.0144	0.0174	2500.000	3033.032	ug/L	21	30	5.0E-4	!c+ m
Cyclohexanone	0.1158	0.1545	250.0000	333.6545	ug/L	33	30	0.0050	c+ v- *
Tetrahydrofuran	0.2948	0.3164	250.0000	268.3110	ug/L	7	30	0.0050	
Tetramethyl THF	0.8529	0.8764	25.00000	25.69150	ug/L	3	30	0.0500	
Dibromofluoromethane	0.7661	0.8359	50.00000	54.55480	ug/L	9	30	0.0500	
1,2-Dichloroethane-d4	0.5163	0.5862	50.00000	56.76630	ug/L	14	30	0.0500	
Toluene-d8	1.0794	1.0891	50.00000	50.44700	ug/L	1	30	0.0500	
Bromofluorobenzene	1.0392	1.0100	50.00000	48.59450	ug/L	-3	30	0.0500	
Trifluorotoluene	0.4072	0.4281	25.00000	25.70240	ug/L	3	30	0.0500	

ISTD (ICAL=el715)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	222705	227131	1.99	10.34	10.33	-0.01
1,4-Difluorobenzene	413424	418247	1.17	11.48	11.48	0.00
Chlorobenzene-d5	386546	396924	2.68	15.52	15.53	0.01
1,4-Dichlorobenzene-d4	258691	272495	5.34	18.25	18.26	0.01

LW 12-21-04

R 12/21

!=warning +=high bias -=low bias c=CCV m=manual integration v=ICV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA05 Run Name : 25 PPB IDF : 1.0
Seqnum : 444511710012 Filename : elk12 Injected : 20-DEC-2004 14:44
Calnum : 444493014001 Caldate : 07-DEC-2004 Caltype : WATER
Standards: 04WS2168 (10000X), 04WS2204 (40000X), 04SS440 (20000X), 04WS2343 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Freon 12	0.9892	1.1061	25.00000	27.95410	ug/L	12	30	0.0500	m
Chloromethane	1.3992	1.4663	25.00000	26.19860	ug/L	5	30	0.1000	
Vinyl Chloride	1.1438	1.2361	25.00000	27.01610	ug/L	8	20	0.0500	
Bromomethane	0.7466	0.7842	25.00000	26.25890	ug/L	5	30	0.0500	
Chloroethane	0.5787	0.6002	25.00000	25.93240	ug/L	4	30	0.0500	
Trichlorofluoromethane	1.2065	1.3504	25.00000	27.98110	ug/L	12	30	0.0500	
Acetone	0.3804	0.3388	25.00000	22.26570	ug/L	-11	40	0.0500	
Freon 113	0.6253	0.6588	25.00000	26.34040	ug/L	5	30	0.0500	
1,1-Dichloroethene	0.6392	0.5793	25.00000	24.27050	ug/L	-3	20	0.0500	
Methylene Chloride	0.8242	0.8540	25.00000	25.90240	ug/L	4	30	0.0500	
Carbon Disulfide	2.5944	2.3921	25.00000	23.05030	ug/L	-8	30	0.0500	
MTBE	2.2520	2.0721	25.00000	23.00240	ug/L	-8	30	0.0500	
trans-1,2-Dichloroethene	0.7077	0.6754	25.00000	25.27820	ug/L	1	30	0.0500	
Vinyl Acetate	1.8114	1.5385	25.00000	21.23470	ug/L	-15	40	0.0500	
1,1-Dichloroethane	1.3395	1.2968	25.00000	24.20310	ug/L	-3	30	0.1000	
2-Butanone	0.5288	0.4245	25.00000	20.07200	ug/L	-20	40	0.0500	
2,2-Dichloropropane	0.9196	0.8855	25.00000	24.07260	ug/L	-4	30	0.0500	
cis-1,2-Dichloroethene	0.6995	0.5998	25.00000	21.43440	ug/L	-14	30	0.0500	
Chloroform	1.3086	1.2606	25.00000	24.08320	ug/L	-4	20	0.0500	
Bromochloromethane	0.3485	0.3660	25.00000	26.25500	ug/L	5	30	0.0500	
1,1,1-Trichloroethane	0.9473	0.9243	25.00000	24.39230	ug/L	-2	30	0.0500	
1,1-Dichloropropene	0.4638	0.4505	25.00000	24.28650	ug/L	-3	30	0.0500	
Carbon Tetrachloride	0.4199	0.4543	25.00000	27.04950	ug/L	8	30	0.0500	
1,2-Dichloroethane	0.5753	0.6155	25.00000	26.74860	ug/L	7	30	0.0500	
Benzene	1.4029	1.3668	25.00000	24.35530	ug/L	-3	30	0.0500	
Trichloroethene	0.3268	0.3307	25.00000	25.30120	ug/L	1	30	0.0500	
1,2-Dichloropropane	0.4109	0.4116	25.00000	25.04190	ug/L	0	20	0.0500	
Bromodichloromethane	0.5149	0.5500	25.00000	26.70620	ug/L	7	30	0.0500	
Dibromomethane	0.2928	0.3115	25.00000	26.58980	ug/L	6	30	0.0500	
2-Chloroethylvinylether	0.2429	0.1311	25.00000	12.92760	ug/L	-48	40	0.0500	c- ***
4-Methyl-2-Pentanone	0.5236	0.4623	25.00000	22.07210	ug/L	-12	40	0.0500	
Tetramethyl THF	0.8529	0.8285	25.00000	24.28740	ug/L	-3	30	0.0500	
cis-1,3-Dichloropropene	0.6010	0.6303	25.00000	26.21840	ug/L	5	30	0.0500	
Toluene	0.7532	0.7623	25.00000	25.30180	ug/L	1	20	0.0500	
trans-1,3-Dichloropropene	0.5739	0.5820	25.00000	25.35230	ug/L	1	30	0.0500	
1,1,2-Trichloroethane	0.2058	0.2104	25.00000	25.56300	ug/L	2	30	0.0500	
2-Hexanone	0.4038	0.3331	25.00000	20.61900	ug/L	-18	40	0.0500	
1,3-Dichloropropane	0.6975	0.6879	25.00000	24.65460	ug/L	-1	30	0.0500	
Tetrachloroethene	0.2970	0.3323	25.00000	27.49890	ug/L	10	30	0.0500	
Dibromochloromethane	0.4182	0.4416	25.00000	26.40220	ug/L	6	30	0.0500	
1,2-Dibromoethane	0.3804	0.4009	25.00000	26.34740	ug/L	5	30	0.0500	
Chlorobenzene	0.8941	0.9338	25.00000	26.11020	ug/L	4	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3469	0.3715	25.00000	26.76930	ug/L	7	30	0.0500	
Ethylbenzene	1.6073	1.6367	25.00000	25.45730	ug/L	2	20	0.0500	
m,p-Xylenes	0.5476	0.5868	50.00000	50.29240	ug/L	1	30	0.0500	
o-Xylene	0.5255	0.5378	25.00000	23.83260	ug/L	-5	30	0.0500	

-=low bias c=CCV m=manual integration

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA05 Run Name : 25 PPB IDF : 1.0
Seqnum : 444511710012 Filename : elk12 Injected : 20-DEC-2004 14:44
Calnum : 444493014001 Caldate : 07-DEC-2004 Caltype : WATER
Standards: 04WS2168 (10000X), 04WS2204 (40000X), 04SS440 (20000X), 04WS2343 (5000X)

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Min RF	Flags
Styrene	0.9451	1.0168	25.00000	25.04140	ug/L	0	30	0.0500	
Bromoform	0.2898	0.3140	25.00000	26.19190	ug/L	5	30	0.1000	
Isopropylbenzene	2.2785	2.2505	25.00000	24.69320	ug/L	-1	30	0.0500	
1,1,2,2-Tetrachloroethane	1.1685	1.0929	25.00000	23.38240	ug/L	-6	30	0.3000	
1,2,3-Trichloropropane	0.2622	0.2649	25.00000	25.26130	ug/L	1	30	0.0500	
Propylbenzene	3.4140	3.4366	25.00000	25.16610	ug/L	1	30	0.0500	
Bromobenzene	0.6795	0.7007	25.00000	25.78150	ug/L	3	30	0.0500	
1,3,5-Trimethylbenzene	2.0339	2.1692	25.00000	24.78000	ug/L	-1	30	0.0500	
2-Chlorotoluene	2.2969	2.3213	25.00000	25.26470	ug/L	1	30	0.0500	
4-Chlorotoluene	2.1215	2.1253	25.00000	25.04460	ug/L	0	30	0.0500	
tert-Butylbenzene	1.5566	1.6611	25.00000	24.85860	ug/L	-1	30	0.0500	
1,2,4-Trimethylbenzene	2.0959	2.1862	25.00000	24.79240	ug/L	-1	30	0.0500	
sec-Butylbenzene	2.7527	2.8394	25.00000	23.83530	ug/L	-5	30	0.0500	
para-Isopropyl Toluene	2.0696	2.2225	25.00000	24.77030	ug/L	-1	30	0.0500	
1,3-Dichlorobenzene	1.3284	1.3381	25.00000	25.18270	ug/L	1	30	0.0500	
1,4-Dichlorobenzene	1.4499	1.4641	25.00000	25.24430	ug/L	1	30	0.0500	
n-Butylbenzene	2.4538	2.4954	25.00000	23.57450	ug/L	-6	30	0.0500	
1,2-Dichlorobenzene	1.2949	1.3376	25.00000	25.82420	ug/L	3	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.2171	0.1963	25.00000	22.60960	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	0.7853	0.8483	25.00000	24.52630	ug/L	-2	30	0.0500	
Hexachlorobutadiene	0.2924	0.3449	25.00000	26.23360	ug/L	5	30	0.0500	
Naphthalene	2.2904	2.2148	25.00000	22.62370	ug/L	-10	30	0.0500	
1,2,3-Trichlorobenzene	0.7856	0.8330	25.00000	25.13580	ug/L	1	30	0.0500	
tert-Butyl Alcohol (TBA)	0.0984	0.0849	250.0000	215.6066	ug/L	-14	30	0.0050	
Isopropyl Ether (DIPE)	2.7536	2.4572	25.00000	22.30940	ug/L	-11	30	0.0500	
Ethyl tert-Butyl Ether (ETBE)	2.0827	1.7996	25.00000	21.60130	ug/L	-14	30	0.0500	
Methyl tert-Amyl Ether (TAME)	1.0501	0.9977	25.00000	23.75380	ug/L	-5	30	0.0500	
Cyclohexanone	0.1158	0.0423	250.0000	91.27440	ug/L	-63	30	0.0050	c- ***
Ethanol	0.0144	0.0132	2500.000	2289.315	ug/L	-8	30	5.0E-4	m
Isopropanol	0.0700	0.0666	250.0000	237.9621	ug/L	-5	30	0.0050	
Tetrahydrofuran	0.2948	0.2571	250.0000	217.9898	ug/L	-13	30	0.0050	
Dibromofluoromethane	0.7661	0.7724	50.00000	50.40680	ug/L	1	30	0.0500	
1,2-Dichloroethane-d4	0.5163	0.5426	50.00000	52.54950	ug/L	5	30	0.0500	
Trifluorotoluene	0.4072	0.4639	25.00000	27.74820	ug/L	11	30	0.0500	
Toluene-d8	1.0794	1.0774	50.00000	49.90510	ug/L	0	30	0.0500	
Bromofluorobenzene	1.0392	0.9999	50.00000	48.10720	ug/L	-4	30	0.0500	

ISTD (ICAL=el715)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	222705	309415	38.93	10.34	10.34	0.00
1,4-Difluorobenzene	413424	537283	29.96	11.48	11.48	0.00
Chlorobenzene-d5	386546	514426	33.08	15.52	15.52	0.00
1,4-Dichlorobenzene-d4	258691	345160	33.43	18.25	18.25	0.00

LW 12-21-04

-=low bias c=CCV m=manual integration
Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 20-DEC-2004
Sequence: 444511710 (elk)
Instrument ID: MSVOA05

ICAL Filename: el715
Date Analyzed: 07-DEC-2004
Time Analyzed: 17:42

	IS1 (PFLBZ)		IS2 (14DFB)		IS3 (CLBZD5)		IS4 (DCBZ14D4)	
	READING	RT	READING	RT	READING	RT	READING	RT
ICAL STD	222705	10.34	413424	11.48	386546	15.52	258691	18.25
LOWER LIMIT	111353	9.84	206712	10.98	193273	15.02	129346	17.75
UPPER LIMIT	445410	10.84	826848	11.98	773092	16.02	517382	18.75

TYPE	SAMPLE	#								
CCV/BS	QC276920	003	227131	10.33	418247	11.47	396924	15.53	272495	18.25
BSD	QC276921	004	237176	10.34	414861	11.48	396147	15.52	275418	18.25
BLANK	QC276922	006	218084	10.33	401541	11.48	346951	15.53	190853	18.25
SAMPLE	176449-010	007	209244	10.34	406364	11.49	358029	15.53	192007	18.26
SAMPLE	176697-001	008	197981	10.33	386756	11.48	336873	15.53	184632	18.25
SAMPLE	176697-002	009	191789	10.33	378110	11.48	341419	15.53	180133	18.25
SAMPLE	176664-001	010	191980	10.34	366579	11.48	335028	15.52	179811	18.25
CCV	25 PPB	012	309415	10.34	537283	11.48	514426	15.52	345160	18.25
BLANK	QC276923	014	277061	10.33	504785	11.48	460081	15.52	247460	18.25
MS	QC276741	015	289472	10.34	521847	11.48	495932	15.52	343410	18.25
MSD	QC276742	016	313456	10.33	544165	11.49	507977	15.53	351230	18.25
SAMPLE	176739-001	018	278698	10.34	528572	11.48	452984	15.52	247909	18.25
SAMPLE	176739-002	019	268672	10.34	498083	11.48	455871	15.53	241789	18.25
SAMPLE	176739-003	020	267608	10.34	496036	11.49	435376	15.53	238724	18.26
SAMPLE	176739-004	021	251711	10.34	474687	11.48	434522	15.53	235389	18.25
SAMPLE	176715-001	022	254803	10.34	492381	11.48	434485	15.52	233689	18.25
SAMPLE	176707-001	023	249317	10.34	482679	11.48	427543	15.52	241981	18.25
SAMPLE	176707-002	024	247592	10.34	477357	11.48	435798	15.52	234137	18.25
SAMPLE	176707-037	025	247569	10.34	468736	11.48	423202	15.52	237492	18.25
SAMPLE	176754-001	026	237738	10.34	470082	11.48	410654	15.53	231358	18.25
SAMPLE	176754-002	027	248072	10.34	465504	11.49	420926	15.53	231851	18.26
SAMPLE	176728-004	028	247652	10.34	473702	11.49	422118	15.53	232563	18.26
SAMPLE	176736-003	029	243601	10.34	473915	11.49	421105	15.53	229813	18.26

ICAL

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 444493014 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 07-DEC-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
001	el701	X	IB			07-DEC-2004 08:54	1.0					1	
002	el702	TUN	BFB			07-DEC-2004 09:21	1.0					2	
003	el703	X	CCV			07-DEC-2004 09:43	1.0					3 4 5 1	
004	el704	X	IB			07-DEC-2004 10:40	1.0					1	
005	el705	X	IB			07-DEC-2004 11:17	1.0					1	
006	el706	X	IB			07-DEC-2004 12:50	1.0					1	
007	el707	X	IB			07-DEC-2004 13:22	1.0					1	
008	el708	TUN	BFB			07-DEC-2004 14:14	1.0					2	
009	el709	X	IB			07-DEC-2004 14:31	1.0					1	
010	el710	X	CALIB IB			07-DEC-2004 15:03	1.0					1	
011	el711	ICAL	1.0/0.5 PPB			07-DEC-2004 15:35	1.0					6 5 4 1	
012	el712	ICAL	5 PPB			07-DEC-2004 16:06	1.0					6 5 4 1	
013	el713	ICAL	10 PPB			07-DEC-2004 16:38	1.0					6 5 4 1	
014	el714	ICAL	20 PPB			07-DEC-2004 17:10	1.0					6 5 4 1	
015	el715	ICAL	50 PPB			07-DEC-2004 17:42	1.0					6 5 4 1	
016	el716	ICAL	75 PPB			07-DEC-2004 18:14	1.0					6 5 4 1	
017	el717	ICAL	100 PPB			07-DEC-2004 18:45	1.0					6 5 4 1	
018	el718	ICV	50 PPB			07-DEC-2004 19:17	1.0		5000			7 1	
019	el719	ICV	50 PPB			07-DEC-2004 19:49	1.0	3	5000			8 9 1	
020	el720	X	IB			07-DEC-2004 20:21	1.0					1	
021	el721	X	IB			07-DEC-2004 20:53	1.0					1	
022	el722	X	IB			07-DEC-2004 21:24	1.0					1	

ICAL-OK ICV-Carbon Disulfide ↓, 2-Clare ↓, Cyclohexanone ↓ (USACE Chloromethane ↓)

Stds used: 1=04WS2096 2=04WS1238 3=04WS2168A 4=04WS2204 5=04SS408 6=04WS2168 7=04WS2304 8=04WS1940 9=04WS1968

Analyst: LW Date: 12-8-04

12/08/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

4

Sequence: 444511710 Instrument: MSVOA05 HP GCMS VOA 05 Begun: 20-DEC-2004
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	elk01	X	IB			20-DEC-2004 08:30	1.0						1	
002	elk02	TUN	BFB			20-DEC-2004 09:04	1.0						2	
003	elk03	CCV/BS	QC276920	97642	Water	20-DEC-2004 09:34	1.0	4	2	5000			3 4 5 1	
004	elk04	BSD	QC276921	97642	Water	20-DEC-2004 10:06	1.0	4	2	5000			3 4 5 1	
005	elk05	X	IB			20-DEC-2004 10:50	1.0						1	
006	elk06	BLANK	QC276922	97642	Water	20-DEC-2004 11:22	1.0		1	5000			1	
007	elk07	SAMPLE	176449-010	97642	Water	20-DEC-2004 12:04	1.0			5000	A	L2	1 ~1 ml headspace	
008	elk08	SAMPLE	176697-001	97642	Water	20-DEC-2004 12:35	1.0			5000	C		1	
009	elk09	SAMPLE	176697-002	97642	Water	20-DEC-2004 13:07	2.500			5000	C		1	
010	elk10	SAMPLE	176664-001	97642	Water	20-DEC-2004 13:39	10.0			5000	B		1 ~1 ml headspace	
011	elk11	TUN	BFB → adj. tune			20-DEC-2004 14:23	1.0						2	
012	elk12	CCV	25 PPB			20-DEC-2004 14:44	1.0	2		5000			3 4 5 1	
013	elk13	X	IB			20-DEC-2004 15:27	1.0						1	
014	elk14	BLANK	QC276923	97642	Water	20-DEC-2004 15:59	1.0		1	5000			1	
015	elk15	MS	QC276741	97580	Water	20-DEC-2004 16:31	1.0	3		5000	FGH	L2	6 7 8 1	
016	elk16	MSD	QC276742	97580	Water	20-DEC-2004 17:03	1.0	3		5000	FGH	L2	6 7 8 1	
017	elk17	X	IB			20-DEC-2004 17:35	1.0						1	
018	elk18	SAMPLE	176739-001	97642	Water	20-DEC-2004 18:07	1.0			5000	A	L2	1	
019	elk19	SAMPLE	176739-002	97642	Water	20-DEC-2004 18:38	1.0			5000			1	
020	elk20	SAMPLE	176739-003	97642	Water	20-DEC-2004 19:10	12.50	1		5000			1 RR022SX 1:MTBE=117.657	
021	elk21	SAMPLE	176739-004	97642	Water	20-DEC-2004 19:42	1.0			5000			1	
022	elk22	SAMPLE	176715-001	97642	Water	20-DEC-2004 20:14	1.0			5000	B	G	1	
023	elk23	SAMPLE	176707-001	97642	Water	20-DEC-2004 20:46	1.0			5000	B	L2	1	
024	elk24	SAMPLE	176707-002	97642	Water	20-DEC-2004 21:18	1.0			5000	A		1	
025	elk25	SAMPLE	176707-037	97642	Water	20-DEC-2004 21:50	1.0			5000	B		1	
026	elk26	SAMPLE	176754-001	97642	Water	20-DEC-2004 22:22	1.0		1	5000	A		1 surr ↑ - ND	
027	elk27	SAMPLE	176754-002	97642	Water	20-DEC-2004 22:54	1.0			5000	A		1	
028	elk28	SAMPLE	176728-004	97642	Water	20-DEC-2004 23:26	1.0			5000	A		1	
029	elk29	SAMPLE	176736-003	97642	Water	20-DEC-2004 23:58	1.0			5000	A		1	
030	elk30	X	IB			21-DEC-2004 00:30	1.0						1	
031	elk31 -32	X	IB			21-DEC-2004 01:02	1.0						1	

ICAL-OK ICV-CDS↓, 2-Clere↓, Cyclohexanone↓ (VSACE Chloromethane↓)

Stds used: 1=04WS2343 2=04WS1238 3=04WS2168 4=04WS2204 5=04SS440 6=04WS2304 7=04WS2305 8=04WS2367

CCV ELK03: Acetone↑, 2-Clere↓, Cyclohexanone↑ (VSACE Freon 12↑, Chloromethane↑, Ethanol↑)
CCV ELK12: 2-Clere↓, Cyclohexanone↓

Analyst: LW Date: 12-21-04

Page 1 of 21

12/21/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 8260 Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	CVBCADMCMDVDMDTTCDBTDBMDBDTHPDCEXXTSTPDDBB	LCRLCCTDTCAEKCCCTCZCCDICZCCXCBLBYYOTBCBCZR	M MEEELSBE AKELACA EPCBPMPAOECBZLLTYMAFAM4	E EA 1N E1 1 1MLL1 AMK1E11 2 MZ MOX E M1E F	2 3 2 3 2 2
176728-004	MSVOA05	12/20/04 23:26	1.0	+	+	+	+	+
QC276920	MSVOA05	12/20/04 09:34	1.0	+	+	+	+	+
QC276921	MSVOA05	12/20/04 10:06	1.0	+	+	+	+	+
QC276922	MSVOA05	12/20/04 11:22	1.0	+	+	+	+	+
QC276923	MSVOA05	12/20/04 15:59	1.0	+	+	+	+	+

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 12-20

PREPPED BY.

97642
97643

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	176697-1		C	<2			5	1x 100ml	
2	-2			<2				200x 50ml	
3	176669-2		C				7	4X	
4	-3							50X	
5	-4		B		1ml			50X	
6	176664-1		A	<2	1ml			10X	
7	176449-10		FGff	<2				1X	
8	176669-1		B					MS/MSD BR	
9	176707-1		A		LV			1x EB	
10	-2		B					TB	
11	-37			6				EB	
12	176715-1		A	<2				1x	
13	176754-1							1x	
14	-2		A					1x	
15	176728-4							TB	
16	176736-3			<2				TB	
17	176739-1							1x	
18	-2							1x	
19	-3			<2	LV			12.5x	
20	-4		C	<2			7	TB	
21	176637-23							6.7-5x	
22	-24		BACD	4				166.7x	2 left
23	176637-18		-B	<2				1x MS/MSD	
24	176711-2							1x	
25	-3								
26	-4								
27	-5								
28	-6		C	<2				5x	
29	176713-1							1x	
30	-2							1x Didn't sample	
31	-3							16.6x	
32	-4			<2				40x	
33	-5							1x	
34	-6			<2				1x	
35	-7							4x	
36	-8			<2				4x	
37	-9								
38									
39									
40									
41									
42									

PREPFORM.XLS

7/21/98

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,1-Dichloroethene	ug/L	09/11/04 0.20	10/26/04 0.13	10/12/04 0.083	05/27/04 0.097	02/10/04 0.096	08/12/04 0.15	01/15/04 0.097
Benzene	ug/L	09/11/04 0.031	10/26/04 0.043	10/12/04 0.040	05/27/04 0.066	02/10/04 0.084	08/12/04 0.056	01/15/04 0.049
Trichloroethene	ug/L	09/11/04 0.069	10/26/04 0.098	10/12/04 0.089	05/27/04 0.14	02/10/04 0.17	08/12/04 0.079	01/15/04 0.11
Toluene	ug/L	09/11/04 0.087	10/26/04 0.079	10/12/04 0.074	05/27/04 0.096	02/10/04 0.093	08/12/04 0.11	01/15/04 0.063
Chlorobenzene	ug/L	09/11/04 0.031	10/26/04 0.057	10/12/04 0.070	06/09/04 0.040	02/10/04 0.18	08/12/04 0.053	01/15/04 0.030
Freon 12	ug/L	09/11/04 0.046	10/26/04 0.15	10/12/04 0.14	06/09/04 0.084	02/10/04 0.20	08/12/04 0.15	01/15/04 0.12
Chloromethane	ug/L	09/11/04 0.15	10/26/04 0.069	10/12/04 0.22	06/09/04 0.17	02/10/04 0.30	08/12/04 0.10	01/15/04 0.18
Vinyl Chloride	ug/L	09/11/04 0.12	10/26/04 0.12	10/12/04 0.14	06/09/04 0.082	02/10/04 0.19	08/12/04 0.21	01/15/04 0.11
Bromomethane	ug/L	09/11/04 0.18	10/26/04 0.49	10/12/04 0.34	05/27/04 0.39	02/10/04 0.23	08/12/04 0.42	01/16/04 0.70
Chloroethane	ug/L	09/11/04 0.27	10/26/04 0.40	10/12/04 0.36	05/27/04 0.081	02/10/04 0.37	08/12/04 0.27	01/15/04 0.13
Trichlorofluoromethane	ug/L	09/11/04 0.090	10/26/04 0.13	10/12/04 0.098	06/09/04 0.062	02/10/04 0.19	08/12/04 0.076	01/15/04 0.12
Acetone	ug/L	09/15/04 1.0	10/26/04 0.63	10/12/04 0.31	06/09/04 1.1	02/10/04 0.39	08/12/04 0.26	01/15/04 0.39
Freon 113	ug/L	09/11/04 0.091	10/26/04 0.099	10/12/04 0.088	05/27/04 0.068	02/10/04 0.11	08/12/04 0.20	01/15/04 0.12
Methylene Chloride	ug/L	09/11/04 0.11	10/26/04 0.27	10/12/04 0.19	05/27/04 0.11	02/10/04 0.19	08/12/04 0.21	01/15/04 0.099
MTBE	ug/L	09/11/04 0.074	10/26/04 0.18	10/12/04 0.049	06/09/04 0.059	02/10/04 0.060	08/12/04 0.074	01/15/04 0.068
Carbon Disulfide	ug/L	09/11/04 0.078	10/26/04 0.037	10/12/04 0.042	05/27/04 0.044	02/10/04 0.063	08/12/04 0.070	01/16/04 0.30
trans-1,2-Dichloroethene	ug/L	09/11/04 0.089	10/26/04 0.21	10/12/04 0.18	05/27/04 0.082	02/10/04 0.11	08/12/04 0.11	01/15/04 0.061
Vinyl Acetate	ug/L	09/11/04 0.069	10/26/04 0.061	10/12/04 0.067	06/09/04 1.4	02/10/04 0.086	08/12/04 0.063	01/15/04 0.32
1,1-Dichloroethane	ug/L	09/11/04 0.057	10/26/04 0.059	10/12/04 0.12	05/27/04 0.087	02/10/04 0.13	08/12/04 0.067	01/15/04 0.059
2-Butanone	ug/L	09/11/04 0.39	10/26/04 0.41	10/12/04 0.27	05/27/04 0.63	02/10/04 0.45	08/12/04 0.24	01/15/04 0.14
cis-1,2-Dichloroethene	ug/L	09/11/04 0.13	10/26/04 0.17	10/12/04 0.068	05/27/04 0.075	02/10/04 0.12	08/12/04 0.12	01/15/04 0.070
2,2-Dichloropropane	ug/L	09/11/04 0.085	10/26/04 0.12	10/12/04 0.10	05/27/04 0.13	02/10/04 0.079	08/12/04 0.050	01/15/04 0.12
Chloroform	ug/L	09/11/04 0.11	10/26/04 0.044	10/12/04 0.046	05/27/04 0.073	02/10/04 0.079	08/12/04 0.044	01/15/04 0.062
Bromochloromethane	ug/L	09/11/04 0.18	10/26/04 0.082	10/12/04 0.13	05/27/04 0.076	02/10/04 0.10	08/12/04 0.15	01/15/04 0.078
1,1,1-Trichloroethane	ug/L	09/11/04 0.099	10/26/04 0.041	10/12/04 0.050	05/27/04 0.045	02/10/04 0.089	08/12/04 0.073	01/15/04 0.042
1,1-Dichloropropene	ug/L	09/11/04 0.089	10/26/04 0.24	10/12/04 0.098	05/27/04 0.12	02/10/04 0.13	08/12/04 0.058	01/15/04 0.12
Carbon Tetrachloride	ug/L	09/11/04 0.10	10/26/04 0.086	10/12/04 0.091	05/27/04 0.12	02/10/04 0.091	08/12/04 0.15	01/15/04 0.11
1,2-Dichloroethane	ug/L	09/11/04 0.12	10/26/04 0.097	10/12/04 0.11	05/27/04 0.15	02/10/04 0.11	08/12/04 0.16	01/15/04 0.12
1,2-Dichloropropane	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.079	05/27/04 0.094	02/10/04 0.073	08/12/04 0.094	01/15/04 0.054
Bromodichloromethane	ug/L	09/11/04 0.086	10/26/04 0.068	10/12/04 0.055	05/27/04 0.14	02/10/04 0.10	08/12/04 0.036	01/15/04 0.059
Dibromomethane	ug/L	09/11/04 0.076	10/26/04 0.078	10/12/04 0.066	05/27/04 0.084	02/10/04 0.16	08/12/04 0.056	01/15/04 0.15
4-Methyl-2-Pentanone	ug/L	09/11/04 0.16	10/26/04 0.071	10/12/04 0.18	05/27/04 0.081	02/10/04 0.12	08/12/04 0.15	01/15/04 0.24
cis-1,3-Dichloropropene	ug/L	09/11/04 0.055	10/26/04 0.094	10/12/04 0.083	05/27/04 0.098	02/10/04 0.086	08/12/04 0.092	01/15/04 0.092
trans-1,3-Dichloropropene	ug/L	09/11/04 0.074	10/26/04 0.079	10/12/04 0.070	05/27/04 0.096	02/10/04 0.099	08/12/04 0.073	01/15/04 0.092
1,1,2-Trichloroethane	ug/L	09/11/04 0.051	10/26/04 0.12	10/12/04 0.12	05/27/04 0.12	02/10/04 0.21	08/12/04 0.16	01/15/04 0.11
2-Hexanone	ug/L	09/11/04 0.16	10/26/04 0.24	10/12/04 0.089	05/27/04 0.092	02/10/04 0.17	08/12/04 0.21	01/15/04 0.12

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
1,3-Dichloropropane	ug/L	09/11/04 0.070	10/26/04 0.075	10/12/04 0.068	05/27/04 0.036	02/10/04 0.098	08/12/04 0.059	01/15/04 0.038
Tetrachloroethene	ug/L	09/11/04 0.13	10/26/04 0.14	10/12/04 0.13	05/27/04 0.063	02/10/04 0.12	08/12/04 0.089	01/15/04 0.12
Dibromochloromethane	ug/L	09/11/04 0.059	10/26/04 0.13	10/12/04 0.082	06/09/04 0.053	02/10/04 0.14	08/12/04 0.074	01/15/04 0.087
1,2-Dibromoethane	ug/L	09/11/04 0.11	10/26/04 0.090	10/12/04 0.086	05/27/04 0.099	02/10/04 0.16	08/12/04 0.060	01/15/04 0.11
2-Chloroethylvinylether	ug/L	11/12/03 0.28	10/26/04 0.15	10/12/04 0.10	06/09/04 0.18	02/10/04 0.23	08/12/04 0.16	01/15/04 0.071
1,1,1,2-Tetrachloroethane	ug/L	09/11/04 0.13	10/26/04 0.12	10/12/04 0.084	06/09/04 0.077	02/10/04 0.19	08/12/04 0.17	01/15/04 0.068
Ethylbenzene	ug/L	09/11/04 0.055	10/26/04 0.069	10/12/04 0.069	05/27/04 0.036	02/10/04 0.13	08/12/04 0.10	01/15/04 0.046
m,p-Xylenes	ug/L	09/11/04 0.093	10/26/04 0.20	10/12/04 0.20	05/27/04 0.097	02/10/04 0.25	08/12/04 0.13	01/15/04 0.16
o-Xylene	ug/L	09/11/04 0.087	10/26/04 0.081	10/12/04 0.096	05/27/04 0.056	02/10/04 0.17	08/12/04 0.087	01/15/04 0.062
Styrene	ug/L	09/11/04 0.092	10/26/04 0.057	10/12/04 0.062	06/09/04 0.041	02/10/04 0.12	08/12/04 0.028	01/15/04 0.071
Bromoform	ug/L	09/11/04 0.080	10/26/04 0.073	10/12/04 0.098	06/09/04 0.050	02/10/04 0.061	08/12/04 0.084	01/15/04 0.12
Isopropylbenzene	ug/L	09/11/04 0.11	10/26/04 0.078	10/12/04 0.060	05/27/04 0.025	02/10/04 0.17	08/12/04 0.071	01/15/04 0.058
1,1,2,2-Tetrachloroethane	ug/L	09/11/04 0.036	10/26/04 0.089	10/12/04 0.076	05/27/04 0.044	02/10/04 0.16	08/12/04 0.14	01/15/04 0.079
1,2,3-Trichloropropane	ug/L	09/11/04 0.15	10/26/04 0.25	10/12/04 0.11	06/09/04 0.095	02/10/04 0.25	08/12/04 0.27	01/15/04 0.22
Propylbenzene	ug/L	09/11/04 0.091	10/26/04 0.092	10/12/04 0.062	05/27/04 0.029	02/10/04 0.15	08/12/04 0.14	01/15/04 0.043
Bromobenzene	ug/L	09/11/04 0.14	10/26/04 0.11	10/12/04 0.11	05/27/04 0.048	02/10/04 0.21	08/12/04 0.14	01/15/04 0.13
1,3,5-Trimethylbenzene	ug/L	09/11/04 0.088	10/26/04 0.11	10/12/04 0.077	05/27/04 0.044	02/10/04 0.17	08/12/04 0.090	01/15/04 0.086
2-Chlorotoluene	ug/L	09/11/04 0.093	10/26/04 0.10	10/12/04 0.099	05/27/04 0.024	02/10/04 0.16	08/12/04 0.076	01/15/04 0.056
4-Chlorotoluene	ug/L	09/11/04 0.12	10/26/04 0.059	10/12/04 0.063	05/27/04 0.059	02/10/04 0.18	08/12/04 0.094	01/15/04 0.034
tert-Butylbenzene	ug/L	09/11/04 0.10	10/26/04 0.036	10/12/04 0.050	05/27/04 0.072	02/10/04 0.20	08/12/04 0.14	01/15/04 0.064
1,2,4-Trimethylbenzene	ug/L	09/11/04 0.13	10/26/04 0.13	10/12/04 0.096	05/27/04 0.063	02/10/04 0.13	08/12/04 0.082	01/15/04 0.062
sec-Butylbenzene	ug/L	09/11/04 0.061	10/26/04 0.11	10/12/04 0.063	05/27/04 0.045	02/10/04 0.15	08/12/04 0.12	01/15/04 0.058
para-Isopropyl Toluene	ug/L	09/11/04 0.066	10/26/04 0.069	10/12/04 0.085	05/27/04 0.056	02/10/04 0.15	08/12/04 0.14	01/15/04 0.052
1,3-Dichlorobenzene	ug/L	09/11/04 0.036	10/26/04 0.076	10/12/04 0.068	06/09/04 0.057	02/10/04 0.16	08/12/04 0.12	01/15/04 0.092
1,4-Dichlorobenzene	ug/L	09/11/04 0.12	10/26/04 0.066	10/12/04 0.093	06/09/04 0.045	02/10/04 0.21	08/12/04 0.10	01/15/04 0.083
n-Butylbenzene	ug/L	09/11/04 0.14	10/26/04 0.15	10/12/04 0.12	05/27/04 0.11	02/10/04 0.16	08/12/04 0.11	01/15/04 0.081
1,2-Dichlorobenzene	ug/L	09/11/04 0.066	10/26/04 0.075	10/12/04 0.078	06/09/04 0.063	02/10/04 0.18	08/12/04 0.11	01/15/04 0.049
1,2-Dibromo-3-Chloropropane	ug/L	09/11/04 0.37	10/26/04 0.21	10/12/04 0.20	06/09/04 0.23	02/10/04 0.28	08/12/04 0.22	01/16/04 0.35
1,2,4-Trichlorobenzene	ug/L	09/11/04 0.11	10/26/04 0.15	10/12/04 0.21	05/27/04 0.13	02/10/04 0.28	08/12/04 0.16	01/15/04 0.10
Hexachlorobutadiene	ug/L	09/11/04 0.21	10/26/04 0.15	10/12/04 0.20	06/09/04 0.074	02/10/04 0.21	08/12/04 0.15	01/15/04 0.15
Naphthalene	ug/L	09/11/04 0.16	10/26/04 0.047	10/12/04 0.083	06/09/04 0.10	02/10/04 0.27	08/12/04 0.12	01/15/04 0.10
1,2,3-Trichlorobenzene	ug/L	09/11/04 0.072	10/26/04 0.073	10/12/04 0.11	06/09/04 0.097	02/10/04 0.27	08/12/04 0.12	01/15/04 0.12
tert-Butyl Alcohol (TBA)	ug/L	09/11/04 0.71	10/26/04 1.4	03/30/04 1.2	06/09/04 1.6	09/23/03 1.9	04/15/03 3.2	01/19/04 8.6
Isopropyl Ether (DIPE)	ug/L	09/11/04 0.030	10/26/04 0.062	03/30/04 0.097	05/27/04 0.15	09/23/03 0.082	04/15/03 0.19	01/15/04 0.045
Ethyl tert-Butyl Ether (ETBE)	ug/L	09/11/04 0.069	10/26/04 0.046	03/30/04 0.071	06/09/04 0.059	09/23/03 0.13	04/15/03 0.21	01/15/04 0.061
Methyl tert-Amyl Ether (TAME)	ug/L	09/11/04 0.090	10/26/04 0.096	03/30/04 0.12	05/27/04 0.11	09/23/03 0.099	04/15/03 0.23	01/15/04 0.065

Curtis & Tompkins Laboratories
MDL Summary for EPA 8260B Water

Analyte	Units	MSVOA04	MSVOA05	MSVOA06	MSVOA07	MSVOA08	MSVOA09	MSVOA10
Isopropanol	ug/L	09/11/04 2.8	10/26/04 7.3	03/30/04 2.2	06/09/04 28	09/23/03 3.3	04/15/03 3.5	01/15/04 3.0
Ethanol	ug/L	09/11/04 33	10/26/04 78	03/30/04 27	06/09/04 310	09/23/03 24	04/15/03 36	01/19/04 64
Cyclohexanone	ug/L	09/11/04 1.6	10/26/04 3.6	03/30/04 4.0	06/09/04 10	09/23/03 2.4	04/15/03 4.0	01/19/04 4.3
Tetrahydrofuran	ug/L	09/11/04 0.24	10/26/04 1.9	03/30/04 0.51	05/27/04 4.9		04/15/03 3.0	01/15/04 2.1
Tetramethyl THF	ug/L	09/11/04 0.067	10/26/04 0.066	10/12/04 0.15	05/27/04 0.15	02/10/04 0.061	08/12/04 0.059	01/15/04 0.055
Gasoline C6-C10	ug/L							01/20/04 8.3
Gasoline C7-C12	ug/L							01/20/04 9.2
Dibromofluoromethane	ug/L			10/12/04 1.1	06/09/04 2.5			01/15/04 0.78
1,2-Dichloroethane-d4	ug/L				06/09/04 4.1			01/15/04 2.5
Toluene-d8	ug/L				06/09/04 0.98			01/15/04 1.0
Bromofluorobenzene	ug/L				06/09/04 1.6			01/15/04 3.1

METALS

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3PZ101	Sampled:	12/16/04
Lab ID:	176728-001	Received:	12/17/04
Matrix:	Water	Prepared:	12/27/04
Units:	ug/L	Analyzed:	12/29/04
Batch#:	97810		

Analyte	Result	RL	Diln Fac
Aluminum	8,400	5,000	50.00
Antimony	ND	1.0	1.000
Arsenic	7.5	5.0	1.000
Barium	190	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	32,000	5,000	10.00
Chromium	ND	100	10.00
Cobalt	10	10	1.000
Copper	17	1.0	1.000
Iron	17,000	100	1.000
Lead	11	3.0	1.000
Magnesium	98,000	5,000	10.00
Manganese	440	100	10.00
Nickel	59	20	1.000
Potassium	2,400	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	100,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	38	10	1.000
Zinc	41	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Sampled:	12/17/04
Lab ID:	176728-002	Received:	12/17/04
Matrix:	Water	Prepared:	12/27/04
Units:	ug/L	Analyzed:	12/29/04
Batch#:	97810		

Analyte	Result	RL	Diln Fac
Aluminum	9,600	5,000	50.00
Antimony	ND	1.0	1.000
Arsenic	6.3	5.0	1.000
Barium	140	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	23,000	5,000	10.00
Chromium	100	100	10.00
Cobalt	24	10	1.000
Copper	30	1.0	1.000
Iron	16,000	100	1.000
Lead	23	3.0	1.000
Magnesium	95,000	5,000	10.00
Manganese	780	100	10.00
Nickel	150	20	1.000
Potassium	1,700	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	61,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	49	10	1.000
Zinc	63	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277585	Batch#:	97810
Matrix:	Filtrate	Prepared:	12/27/04
Units:	ug/L	Analyzed:	12/28/04

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	97810
Units:	ug/L	Prepared:	12/27/04
Diln Fac:	1.000	Analyzed:	12/28/04

Type: BS Lab ID: QC277586

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	97.17	97	80-120
Antimony	100.0	97.88	98	80-120
Arsenic	100.0	102.6	103	80-120
Barium	100.0	98.82	99	80-120
Beryllium	100.0	98.81	99	80-120
Cadmium	100.0	103.2	103	80-120
Calcium	10,000	10,390	104	80-120
Chromium	100.0	97.98	98	80-120
Cobalt	100.0	97.97	98	80-120
Copper	100.0	104.6	105	80-120
Iron	10,000	10,680	107	80-120
Lead	100.0	100.2	100	80-120
Magnesium	10,000	10,400	104	80-120
Manganese	100.0	105.6	106	80-120
Nickel	100.0	104.6	105	80-120
Potassium	10,000	10,310	103	80-120
Selenium	100.0	98.18	98	80-120
Silver	100.0	97.85	98	80-120
Sodium	10,000	10,250	103	80-120
Thallium	100.0	90.01	90	80-120
Vanadium	100.0	104.7	105	80-120
Zinc	100.0	99.50	100	80-120

Type: BSD Lab ID: QC277587

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	96.05	96	80-120	1	20
Antimony	100.0	95.82	96	80-120	2	20
Arsenic	100.0	100.4	100	80-120	2	20
Barium	100.0	97.22	97	80-120	2	20
Beryllium	100.0	97.49	97	80-120	1	20
Cadmium	100.0	102.7	103	80-120	0	20
Calcium	10,000	10,180	102	80-120	2	20
Chromium	100.0	97.04	97	80-120	1	20
Cobalt	100.0	94.19	94	80-120	4	20
Copper	100.0	103.1	103	80-120	1	20
Iron	10,000	10,540	105	80-120	1	20
Lead	100.0	98.55	99	80-120	2	20
Magnesium	10,000	10,260	103	80-120	1	20
Manganese	100.0	104.7	105	80-120	1	20
Nickel	100.0	103.7	104	80-120	1	20
Potassium	10,000	10,200	102	80-120	1	20
Selenium	100.0	97.28	97	80-120	1	20
Silver	100.0	96.83	97	80-120	1	20
Sodium	10,000	10,120	101	80-120	1	20
Thallium	100.0	92.80	93	80-120	3	20
Vanadium	100.0	103.4	103	80-120	1	20
Zinc	100.0	99.31	99	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ9B	Batch#:	97810
MSS Lab ID:	176731-004	Sampled:	12/17/04
Matrix:	Filtrate	Received:	12/17/04
Units:	ug/L	Prepared:	12/27/04

Type:	MS	Analyzed:	12/28/04
Lab ID:	QC277588		

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	2.699	100.0	97.21	95	75-125	1.000
Antimony	0.09591	100.0	98.39	98	75-125	1.000
Arsenic	3.013	100.0	101.7	99	75-125	1.000
Barium	31.25	100.0	133.8	103	75-125	1.000
Beryllium	<0.1383	100.0	98.42	98	75-125	1.000
Cadmium	<0.1982	100.0	98.52	99	75-125	1.000
Calcium	35,980	10,000	47,870	119	75-125	5.000
Chromium	32.54	100.0	134.2	102	75-125	1.000
Cobalt	0.07963	100.0	89.03	89	75-125	1.000
Copper	0.5618	100.0	96.13	96	75-125	1.000
Iron	74.62	10,000	10,320	102	75-125	1.000
Lead	<0.04752	100.0	94.57	95	75-125	1.000
Magnesium	47,230	10,000	54,890 >LR	77 NM	75-125	1.000
Manganese	2.082	100.0	102.9	101	75-125	1.000
Nickel	2.436	100.0	98.62	96	75-125	1.000
Potassium	684.4	10,000	10,470	98	75-125	1.000
Selenium	3.638	100.0	94.24	91	75-125	1.000
Silver	<0.1570	100.0	92.11	92	75-125	1.000
Sodium	52,120	10,000	60,220 >LR	81 NM	75-125	1.000
Thallium	1.188	100.0	86.05	85	75-125	1.000
Vanadium	15.32	100.0	118.1	103	75-125	1.000
Zinc	2.128	100.0	97.48	95	75-125	1.000

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ9B	Batch#:	97810
MSS Lab ID:	176731-004	Sampled:	12/17/04
Matrix:	Filtrate	Received:	12/17/04
Units:	ug/L	Prepared:	12/27/04

Type: MSD Lab ID: QC277589

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
Aluminum	100.0	96.25	94	75-125	1	20	1.000	12/28/04
Antimony	100.0	100.4	100	75-125	2	20	1.000	12/28/04
Arsenic	100.0	102.1	99	75-125	0	20	1.000	12/28/04
Barium	100.0	135.0	104	75-125	1	20	1.000	12/28/04
Beryllium	100.0	99.23	99	75-125	1	20	1.000	12/28/04
Cadmium	100.0	100.0	100	75-125	1	20	1.000	12/28/04
Calcium	10,000	48,150	122	75-125	1	20	5.000	12/29/04
Chromium	100.0	135.9	103	75-125	1	20	1.000	12/28/04
Cobalt	100.0	89.82	90	75-125	1	20	1.000	12/28/04
Copper	100.0	96.74	96	75-125	1	20	1.000	12/28/04
Iron	10,000	10,180	101	75-125	1	20	1.000	12/28/04
Lead	100.0	97.22	97	75-125	3	20	1.000	12/28/04
Magnesium	10,000	55,510 >LR	83 NM	75-125	NC	20	1.000	12/28/04
Manganese	100.0	102.1	100	75-125	1	20	1.000	12/28/04
Nickel	100.0	100.1	98	75-125	1	20	1.000	12/28/04
Potassium	10,000	10,510	98	75-125	0	20	1.000	12/28/04
Selenium	100.0	96.35	93	75-125	2	20	1.000	12/28/04
Silver	100.0	93.21	93	75-125	1	20	1.000	12/28/04
Sodium	10,000	61,180 >LR	91 NM	75-125	NC	20	1.000	12/28/04
Thallium	100.0	89.87	89	75-125	4	20	1.000	12/28/04
Vanadium	100.0	119.0	104	75-125	1	20	1.000	12/28/04
Zinc	100.0	94.87	93	75-125	3	20	1.000	12/28/04

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

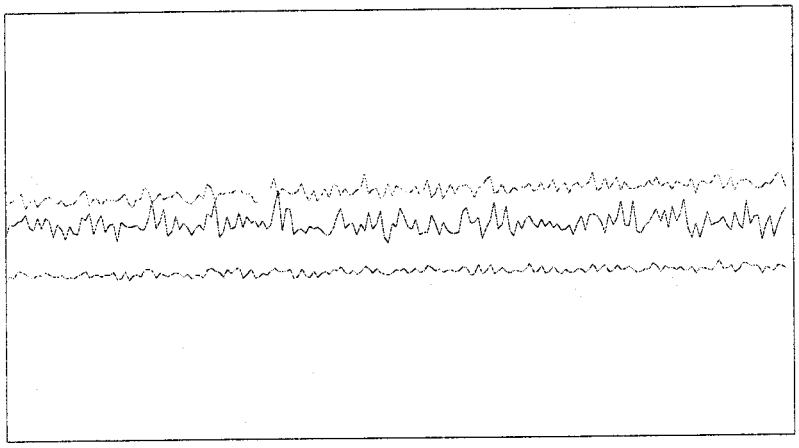
Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1065PZ9B	Units:	ug/L
Type:	Serial Dilution	Batch#:	97810
MSS Lab ID:	176731-004	Sampled:	12/17/04
Lab ID:	QC277590	Received:	12/17/04
Matrix:	Filtrate	Analyzed:	12/28/04

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	ND	250		10	5.000
Antimony	ND	1.000	ND	5.0		10	5.000
Arsenic	ND	5.000	5.5	5.0		10	5.000
Barium	31.25	10.00	30	5.0	3	10	5.000
Beryllium	ND	2.000	ND	5.0		10	5.000
Cadmium	ND	1.000	ND	5.0		10	5.000
Calcium	35,980	2,500	33,000	1,300	8	10	25.00
Chromium	32.54	10.00	35	5.0	6	10	5.000
Cobalt	ND	10.00	ND	5.0		10	5.000
Copper	ND	1.000	ND	5.0		10	5.000
Iron	ND	100.0	81 J	250		10	5.000
Lead	ND	3.000	ND	5.0		10	5.000
Magnesium	47,230	2,500	50,000	1,300	5	10	25.00
Manganese	ND	10.00	2.2 J	5.0		10	5.000
Nickel	ND	20.00	2.2 J	5.0		10	5.000
Potassium	684.4	500.0	700	250	3	10	5.000
Selenium	ND	5.000	9.4	5.0		10	5.000
Silver	ND	1.000	ND	5.0		10	5.000
Sodium	52,120	2,500	53,000	1,300	3	10	25.00
Thallium	1.188	1.000	1.8 J	5.0		10	5.000
Vanadium	15.32	10.00	21	5.0		10	5.000
Zinc	ND	20.00	3.2 J	5.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

Tune Report

Tune File : ATUNE.U



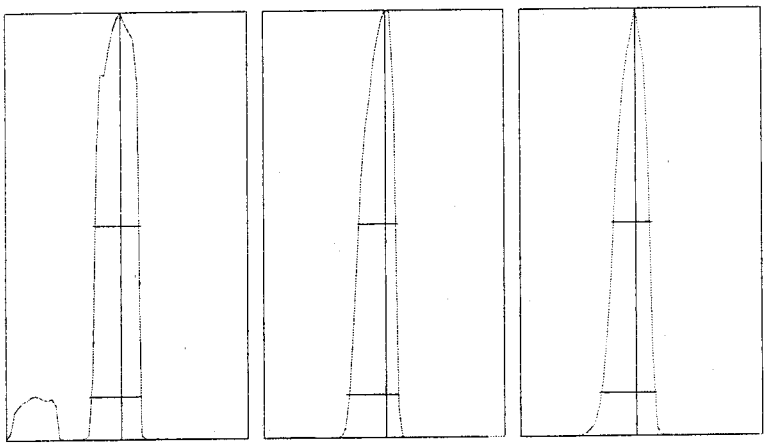
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	10,622	19,520	28,984
Mean:	10046.8	19546.7	28918.8
RSD%:	4.31	1.84	2.62
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.54%
Doubly Charged:	70/140	0.91%

Background:

m/z:	7	89	205
Cps:	82.2	41.2	37.6



m/z:	7	89	205
Height:	10,436	20,138	31,642
Axis:	6.95	89.05	204.95
W-50%:	0.60	0.50	0.50
W-10%:	0.6500	0.6500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1330 W	Extract 1:	-130 V	AMU Gain:	128
RF Matching:	1.68 V	Extract 2:	-46 V	AMU Offset:	130
Smpl Depth:	7.9 mm	Einzel 1,3:	-126 V	Axis Gain:	1.0003
Torch-H:	1.1 mm	Einzel 2:	16 V	Axis Offset:	-0.02
Torch-V:	0.1 mm	Omega Bias:	-68 V	QP Bias:	0 V
Carrier Gas:	1.03 L/min	Omega (+):	3 V		
Makeup Gas:	0 L/min	Omega (-):	2 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	2 V	Discriminator:	9.2 mV
PeriPump1:	0.1 rps	Plate Bias:	0 V	Analog HV:	1840 V
PeriPump2:	--- rps			Pulse HV:	1400 V
S/C Temp:	2 degC				

Generated : Dec 28, 2004 10:17:29
Printed : Dec 28, 2004 10:17:36

P/A Factor Tuning Report

Acquired:Dec 28 2004 10:27 am

Mass[amu]	Element	P/A Factor
6	Li	0.066043
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076800
26	Mg	0.076388
27	Al	0.074708
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.076167
45	Sc	0.076175
51	V	Sensitivity too low
52	Cr	Sensitivity too low
53	Cr	Sensitivity too low
54	Fe	0.074050
55	Mn	Sensitivity too low
57	Fe	0.073178
59	Co	Sensitivity too low
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.071402
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.067227
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.066678
166	Er	Sensitivity too low

205	Tl	Sensitivity too low
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	Sensitivity too low
209	Bi	0.062364
232	Th	Sensitivity too low
238	U	Sensitivity too low

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 28 2004 10:32 am

Mass[amu]	Element	P/A Factor
6	Li	0.066081
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076800
26	Mg	0.076388
27	Al	0.076798
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.078747
45	Sc	0.077978
51	V	0.077145
52	Cr	0.076027
53	Cr	Sensitivity too low
54	Fe	0.075740
55	Mn	0.076153
57	Fe	0.075841
59	Co	0.074068
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.072677
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.067508
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.068683
118	(In)	0.068929
121	Sb	0.068598
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.068310
166	Er	Sensitivity too low

205	Tl	0.064028
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.063879
209	Bi	0.064198
232	Th	0.064959
238	U	0.065372

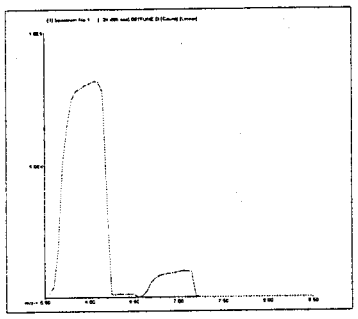
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\04L2812a.B\001TUNE.D
Date Acquired:	Dec 28 2004 12:13 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,04ws2314
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	0.51	5.00	
59 Co	0.75	5.00	
115 In	0.93	5.00	
205 Tl	1.64	5.00	



7 Li

Mass Calib.

Actual: 7.10

Required: 6.90 - 7.10

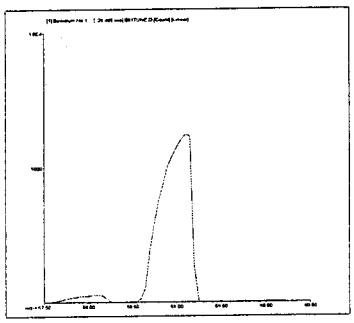
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.10

Required: 58.90 - 59.10

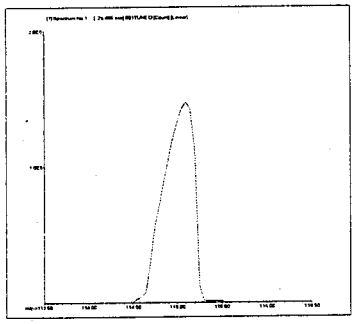
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



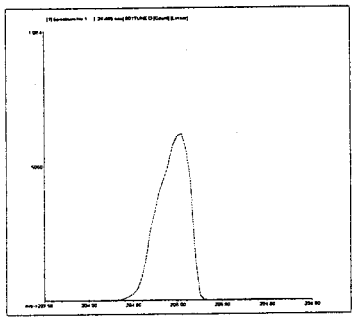
115 In

Mass Calib.

Actual:	115.10	
Required:	114.90 -	115.10
Flag:		

Peak Width

Actual:	0.50
Required:	0.90
Flag:	



205 Tl

Mass Calib.

Actual:	205.05	
Required:	204.90 -	205.10
Flag:		

Peak Width

Actual:	0.60
Required:	0.90
Flag:	

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2812a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 28 2004 12:18 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 28 2004 11:36 am
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.01238	ppb	176.74	0.01238	1.00	
23 Na	-3.57	ppb	43.03	-3.57	1.00	
26 Mg	2.349	ppb	20.09	2.349	1.00	
27 Al	1.786	ppb	26.53	1.786	1.00	
39 K	0.1429	ppb	1326.10	0.1429	1.00	
44 Ca	-10.23	ppb	24.00	-10.23	1.00	
51 V	0.02795	ppb	180.82	0.02795	1.00	
52 Cr	0.005926	ppb	146.56	0.005926	1.00	
55 Mn	-0.001641	ppb	380.56	-0.001641	1.00	
57 Fe	5.395	ppb	28.49	5.395	1.00	
59 Co	0.007942	ppb	50.57	0.007942	1.00	
60 Ni	-0.01849	ppb	197.62	-0.01849	1.00	
65 Cu	-0.03942	ppb	112.56	-0.03942	1.00	
66 Zn	-0.04144	ppb	147.32	-0.04144	1.00	
75 As	-0.7922	ppb	55.58	-0.7922	1.00	
82 Se	-7.004	ppb	62.65	-7.004	1.00	
95 Mo	0.05589	ppb	91.52	0.05589	1.00	
109 Ag	0.001133	ppb	204.24	0.001133	1.00	
111 Cd	-0.1211	ppb	74.54	-0.1211	1.00	
121 Sb	0.01645	ppb	47.37	0.01645	1.00	
137 Ba	0.01319	ppb	107.51	0.01319	1.00	
205 Tl	0.0659	ppb	35.40	0.0659	1.00	
208 Pb	-0.01357	ppb	24.91	-0.01357	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	824828.94	2.33	---	#VALUE!	30 - 200	
45 Sc	977117.56	1.22	---	#VALUE!	30 - 200	
72 Ge	169260.22	1.19	---	#VALUE!	30 - 200	

115 In	1301438.90	0.39	---	#VALUE!	30 - 200
209 Bi	1128891.80	1.10	---	#VALUE!	30 - 200

ISTD Ref File : ---

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2812a.B\003CAL
Date Acquired:	Dec 28 2004 12:24 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 28 2004 11:36 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	828910.00	A	12200.00	1.47
9	Be	122.22	P	39.49	32.31
23	Na	157032.20	P	5862.00	3.73
26	Mg	1445.56	P	161.40	11.17
27	Al	11982.22	P	417.70	3.49
39	K	797343.19	A	6099.00	0.76
44	Ca	4063.21	P	188.70	4.64
45	Sc	967031.50	A	12070.00	1.25
51	V	1712.94	P	638.40	37.27
52	Cr	2944.44	P	125.10	4.25
55	Mn	716.67	P	40.55	5.66
57	Fe	5877.78	P	138.30	2.35
59	Co	232.22	P	25.02	10.77
60	Ni	171.11	P	35.64	20.83
65	Cu	647.77	P	39.77	6.14
66	Zn	978.90	P	15.03	1.54
72	Ge	165848.70	P	2405.00	1.45
75	As	-1251.10	P	645.00	51.55
82	Se	1823.30	P	324.80	17.81
95	Mo	275.56	P	28.35	10.29
109	Ag	120.00	P	28.48	23.73
111	Cd	270.35	P	30.80	11.39
115	In	1289542.00	A	8999.00	0.70
121	Sb	188.89	P	10.18	5.39
137	Ba	158.89	P	22.19	13.97
205	Tl	2621.11	P	92.52	3.53
208	Pb	662.22	P	29.88	4.51
209	Bi	1116417.00	A	8479.00	0.76
232	Th	334.44	P	20.09	6.01
238	U	98.89	P	10.18	10.29

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\004CALI.D\004CALI.D#
Date Acquired: Dec 28 2004 12:29 pm
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:26 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	821098.81	A	10360.00	1.26
9 Be	500.00	P	49.10	9.82
23 Na	311938.91	P	3653.00	1.17
26 Mg	17333.33	P	511.60	2.95
27 Al	8675.55	P	236.00	2.72
39 K	1002260.00	A	25220.00	2.52
44 Ca	8386.72	P	486.50	5.80
45 Sc	980741.13	A	9334.00	0.95
51 V	4710.03	P	518.40	11.01
52 Cr	5281.11	P	108.60	2.06
55 Mn	2898.89	P	29.12	1.00
57 Fe	9323.33	P	442.40	4.75
59 Co	1718.89	P	50.15	2.92
60 Ni	504.44	P	21.69	4.30
65 Cu	1137.70	P	93.95	8.26
66 Zn	1525.64	P	66.70	4.37
72 Ge	168971.30	P	2801.00	1.66
75 As	-817.68	P	82.69	10.11
82 Se	1988.75	P	141.10	7.09
95 Mo	732.22	P	53.47	7.30
109 Ag	1197.78	P	39.77	3.32
111 Cd	515.83	P	41.25	8.00
115 In	1281720.00	A	14520.00	1.13
121 Sb	1181.11	P	54.30	4.60
137 Ba	475.56	P	69.47	14.61
205 Tl	4096.67	P	170.10	4.15
208 Pb	3230.00	P	165.00	5.11
209 Bi	1102203.00	A	3655.00	0.33
232 Th	2394.44	P	130.50	5.45
238 U	2943.33	P	23.09	0.78

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	821098.75	1.26	828909.94	99.1	30 - 200	
45 Sc	980741.13	0.95	967031.50	101.4	30 - 200	
72 Ge	168971.33	1.66	165848.67	101.9	30 - 200	
115 In	1281719.50	1.13	1289542.40	99.4	30 - 200	
209 Bi	1102202.60	0.33	1116416.90	98.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\005CALI.D\005CALI.D#
Date Acquired: Dec 28 2004 12:34 pm
Operator:
Sample Name: cs2,04ws2311
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:31 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	800648.19	A	20290.00	2.53
9	Be	854.44	P	29.12	3.41
23	Na	492238.91	P	7425.00	1.51
26	Mg	33622.22	P	696.30	2.07
27	Al	9971.11	P	298.80	3.00
39	K	1195768.00	A	22760.00	1.90
44	Ca	13170.00	P	440.60	3.35
45	Sc	968228.63	A	3422.00	0.35
51	V	6324.82	P	637.90	10.09
52	Cr	6800.00	P	303.80	4.47
55	Mn	4772.22	P	228.50	4.79
57	Fe	13412.22	P	384.20	2.86
59	Co	3173.33	P	25.17	0.79
60	Ni	910.00	P	17.32	1.90
65	Cu	1502.08	P	44.39	2.96
66	Zn	3761.28	P	23.41	0.62
72	Ge	166098.91	P	3507.00	2.11
75	As	-348.28	P	700.60	201.16
82	Se	1970.74	P	255.50	12.97
95	Mo	1132.22	P	58.91	5.20
109	Ag	2122.22	P	39.77	1.87
111	Cd	719.32	P	111.50	15.50
115	In	1268414.00	A	18470.00	1.46
121	Sb	1984.44	P	85.66	4.32
137	Ba	830.00	P	27.28	3.29
205	Tl	5200.00	P	218.70	4.21
208	Pb	6143.33	P	179.50	2.92
209	Bi	1101010.00	A	12520.00	1.14
232	Th	4007.78	P	48.80	1.22
238	U	5440.00	P	288.40	5.30

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	800648.19	2.53	828909.94	96.6	30 - 200	
45 Sc	968228.63	0.35	967031.50	100.1	30 - 200	
72 Ge	166098.89	2.11	165848.67	100.2	30 - 200	
115 In	1268413.60	1.46	1289542.40	98.4	30 - 200	
209 Bi	1101009.60	1.14	1116416.90	98.6	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\006CALI.D\006CALI.D#
Date Acquired: Dec 28 2004 12:40 pm
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	813334.88	A	15310.00	1.88
9 Be	1620.00	P	37.86	2.34
23 Na	922291.81	A	9928.00	1.08
26 Mg	65898.88	P	1772.00	2.69
27 Al	11814.44	P	125.30	1.06
39 K	1494430.00	A	24600.00	1.65
44 Ca	22013.16	P	531.50	2.41
45 Sc	957829.31	A	8920.00	0.93
51 V	9848.79	P	763.50	7.75
52 Cr	9630.00	P	268.50	2.79
55 Mn	8143.33	P	115.30	1.42
57 Fe	20492.22	P	537.70	2.62
59 Co	5975.56	P	138.30	2.31
60 Ni	1464.44	P	85.27	5.82
65 Cu	2211.93	P	123.70	5.59
66 Zn	2807.00	P	117.90	4.20
72 Ge	165898.00	P	2507.00	1.51
75 As	-378.06	P	351.40	92.95
82 Se	1856.04	P	172.70	9.30
95 Mo	1911.11	P	115.50	6.04
109 Ag	4150.00	P	24.04	0.58
111 Cd	1223.53	P	17.25	1.41
115 In	1258979.00	A	3722.00	0.30
121 Sb	3837.78	P	98.34	2.56
137 Ba	1351.11	P	22.69	1.68
205 Tl	7816.67	P	215.30	2.75
208 Pb	11112.22	P	403.60	3.63
209 Bi	1115020.00	A	9593.00	0.86
232 Th	7450.00	P	266.90	3.58
238 U	11093.33	P	426.80	3.85

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	813334.94	1.88	828909.94	98.1	30 - 200	
45 Sc	957829.31	0.93	967031.50	99.0	30 - 200	
72 Ge	165898.00	1.51	165848.67	100.0	30 - 200	
115 In	1258978.80	0.30	1289542.40	97.6	30 - 200	
209 Bi	1115020.10	0.86	1116416.90	99.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\007CALI.D\007CALI.D#
Date Acquired: Dec 28 2004 12:45 pm
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:41 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	809339.38	A	7674.00	0.95
9 Be	14532.22	P	376.70	2.59
23 Na	7517995.00	A	81160.00	1.08
26 Mg	711142.81	A	11800.00	1.66
27 Al	55920.00	P	861.10	1.54
39 K	7013301.00	A	92610.00	1.32
44 Ca	173299.59	P	5230.00	3.02
45 Sc	937655.69	A	18360.00	1.96
51 V	71712.26	P	2111.00	2.94
52 Cr	60536.66	P	1641.00	2.71
55 Mn	73623.33	P	1306.00	1.77
57 Fe	150601.09	P	3746.00	2.49
59 Co	58207.78	P	1316.00	2.26
60 Ni	12710.00	P	533.90	4.20
65 Cu	15350.40	P	457.50	2.98
66 Zn	9599.11	P	414.00	4.31
72 Ge	164297.80	P	3331.00	2.03
75 As	7642.21	P	416.00	5.44
82 Se	2383.71	P	144.50	6.06
95 Mo	17818.89	P	315.20	1.77
109 Ag	40477.78	P	990.40	2.45
111 Cd	8972.27	P	257.80	2.87
115 In	1251724.00	A	15420.00	1.23
121 Sb	34860.00	P	647.70	1.86
137 Ba	11735.56	P	589.00	5.02
205 Tl	65103.33	P	1623.00	2.49
208 Pb	107172.20	P	1877.00	1.75
209 Bi	1122333.00	A	17860.00	1.59
232 Th	72802.22	P	4744.00	6.52
238 U	112814.40	P	3292.00	2.92

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	809339.38	0.95	828909.94	97.6	30 - 200	
45 Sc	937655.69	1.96	967031.50	97.0	30 - 200	
72 Ge	164297.78	2.03	165848.67	99.1	30 - 200	
115 In	1251723.90	1.23	1289542.40	97.1	30 - 200	
209 Bi	1122332.50	1.59	1116416.90	100.5	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\008CALI.D\008CALI.D#
Date Acquired: Dec 28 2004 12:50 pm
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:47 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	821422.81	A	16960.00	2.06
9 Be	144403.30	P	3160.00	2.19
23 Na	73814408.00	A	1096000.00	1.48
26 Mg	6780954.00	A	169300.00	2.50
27 Al	498966.59	P	15230.00	3.05
39 K	61353312.00	A	1309000.00	2.13
44 Ca	1885757.00	A	37770.00	2.00
45 Sc	971149.13	A	12780.00	1.32
51 V	794131.00	A	28830.00	3.63
52 Cr	620464.38	M	47640.00	7.68
55 Mn	816760.63	A	8649.00	1.06
57 Fe	1630384.00	A	6426.00	0.39
59 Co	643514.88	A	8440.00	1.31
60 Ni	127324.40	P	4293.00	3.37
65 Cu	144463.30	P	5789.00	4.01
66 Zn	84150.57	P	2572.00	3.06
72 Ge	171843.09	P	5157.00	3.00
75 As	88119.11	P	2682.00	3.04
82 Se	7876.88	P	234.90	2.98
95 Mo	179396.70	P	4122.00	2.30
109 Ag	400190.00	P	9035.00	2.26
111 Cd	87456.67	P	2224.00	2.54
115 In	1253967.00	A	6587.00	0.53
121 Sb	349294.41	P	9046.00	2.59
137 Ba	116571.10	P	2329.00	2.00
205 Tl	873362.19	A	9437.00	1.08
208 Pb	1114920.00	A	14890.00	1.34
209 Bi	1091082.00	A	9581.00	0.88
232 Th	988701.81	A	20510.00	2.07
238 U	1312285.00	A	9164.00	0.70

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	821422.75	2.06	828909.94	99.1	30 - 200	
45 Sc	971149.13	1.32	967031.50	100.4	30 - 200	
72 Ge	171843.11	3.00	165848.67	103.6	30 - 200	
115 In	1253967.40	0.53	1289542.40	97.2	30 - 200	
209 Bi	1091081.90	0.88	1116416.90	97.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\009CALI.D\009CALI.D#
Date Acquired: Dec 28 2004 12:55 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:52 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	803089.88	A	6178.00	0.77
9 Be	287067.81	P	6675.00	2.33
23 Na	144477100.00	A	1663000.00	1.15
26 Mg	13206350.00	A	196400.00	1.49
27 Al	1071533.00	A	12440.00	1.16
39 K	120755100.00	A	1098000.00	0.91
44 Ca	3651775.00	A	27740.00	0.76
45 Sc	955695.19	A	3145.00	0.33
51 V	1547990.00	A	12360.00	0.80
52 Cr	1236379.00	A	8777.00	0.71
55 Mn	1559377.00	A	12290.00	0.79
57 Fe	3088467.00	A	19740.00	0.64
59 Co	1248580.00	A	9553.00	0.77
60 Ni	248065.50	P	5735.00	2.31
65 Cu	281627.81	P	7137.00	2.53
66 Zn	163254.91	P	2218.00	1.36
72 Ge	171269.09	P	2604.00	1.52
75 As	177129.80	P	2544.00	1.44
82 Se	13553.48	P	23.20	0.17
95 Mo	358694.41	P	5750.00	1.60
109 Ag	833201.19	A	6293.00	0.76
111 Cd	170413.00	P	2455.00	1.44
115 In	1210788.00	A	2343.00	0.19
121 Sb	747268.31	A	2580.00	0.35
137 Ba	228758.91	P	4675.00	2.04
205 Tl	1585720.00	A	14220.00	0.90
208 Pb	2192414.00	A	37180.00	1.70
209 Bi	1038809.00	A	11140.00	1.07
232 Th	2450059.00	A	52470.00	2.14
238 U	2484031.00	A	29270.00	1.18

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	803089.94	0.77	828909.94	96.9	30 - 200	
45 Sc	955695.19	0.33	967031.50	98.8	30 - 200	
72 Ge	171269.11	1.52	165848.67	103.3	30 - 200	
115 In	1210787.80	0.19	1289542.40	93.9	30 - 200	
209 Bi	1038809.30	1.07	1116416.90	93.0	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 28, 2004 13:01
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412812a.b\003calb.d\	003calb.d#	Dec 28 2004 12:24 pm
2	...hem\1\data\0412812a.b\004cali.d\	004cali.d#	Dec 28 2004 12:29 pm
3	...hem\1\data\0412812a.b\005cali.d\	005cali.d#	Dec 28 2004 12:34 pm
4	...hem\1\data\0412812a.b\006cali.d\	006cali.d#	Dec 28 2004 12:40 pm
5	...hem\1\data\0412812a.b\007cali.d\	007cali.d#	Dec 28 2004 12:45 pm
6	...hem\1\data\0412812a.b\008cali.d\	008cali.d#	Dec 28 2004 12:50 pm
7	...hem\1\data\0412812a.b\009cali.d\	009cali.d#	Dec 28 2004 12:55 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 8.909E-2*X -3.379E-3	1.0000	ppb
Na	23	45	Y = 3.776E-1*X +1.340E+1	1.0000	ppb
Mg	25	45	Y = 3.080E-2*X +2.257E-1	1.0000	ppb
— Mg	26	45	Y = 3.455E-2*X +1.135E+0	1.0000	ppb
Al	27	45	Y = 2.747E-1*X +1.498E-1	0.9990	ppb
K	39	45	Y = 3.131E-1*X +4.619E+1	1.0000	ppb
Ca	43	45	Y = 5.587E-4*X -1.591E-3	0.9999	ppb
Ca	44	45	Y = 9.569E-3*X +2.218E-1	1.0000	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.265E+0*X +7.821E-1	0.9999	ppb
Cr	52	72	Y = 1.800E+0*X +8.427E-1	1.0000	ppb
Cr	53	72	Y = 1.886E-1*X +1.855E+0	0.9995	ppb
Fe	54	72	Y = 1.104E-1*X +5.788E+0	0.9999	ppb
Mn	55	72	Y = 2.291E+0*X +8.813E-1	0.9998	ppb
Fe	57	72	Y = 4.533E-2*X +3.667E+0	0.9997	ppb
Co	59	72	Y = 1.831E+0*X +3.095E-1	0.9999	ppb
Ni	60	72	Y = 3.628E-1*X +1.639E-1	0.9999	ppb
Cu	63	72	Y = 9.465E-1*X -4.804E-1	0.9991	ppb
Cu	65	72	Y = 4.106E-1*X +3.861E-1	1.0000	ppb
Zn	66	72	Y = 2.357E-1*X +6.549E-1	0.9999	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.601E-1*X -3.216E-1	1.0000	ppb
(As)	77	72	Y = 1.291E-2*X +3.641E-1	0.9969	ppb
Se	82	72	Y = 1.704E-2*X +5.614E-1	0.9999	ppb
(As)	83	72	Y = 5.541E-4*X +7.138E+0	0.4573	ppb
(Ca)	88	72	Y = 8.589E-3*X +6.331E-2	0.9998	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 5.228E-1*X +8.167E-2	1.0000	ppb
Mo	98	72	Y = 8.511E-1*X -1.387E-1	0.9999	ppb
(Mo)	99	72	Y = 1.050E-5*X +2.070E-2	0.4936	ppb
(Cd)	106	72	Y = 2.228E-2*X +1.264E-1	0.9999	ppb
(Cd)	108	72	Y = 1.655E-2*X +2.604E-2	0.9999	ppb
Ag	109	72	Y = 1.208E+0*X -3.277E-1	0.9998	ppb
Cd	111	72	Y = 2.489E-1*X +1.634E-1	1.0000	ppb
Cd	114	72	Y = 5.728E-1*X +2.175E-1	0.9999	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.521E-1*X -1.373E-1	0.9990	ppb
Ba	135	115	Y = 2.695E-2*X -1.301E-3	0.9999	ppb
Ba	137	115	Y = 4.709E-2*X -6.637E-4	1.0000	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.852E-1*X -6.205E-3	0.9996	ppb
(Pb)	206	209	Y = 1.310E-1*X -1.626E-1	0.9981	ppb
(Pb)	207	209	Y = 1.059E-1*X -1.477E-2	1.0000	ppb
Pb	208	209	Y = 5.255E-1*X -2.117E-1	0.9999	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 5.741E-1*X -1.970E+0	0.9938	ppb
U	238	209	Y = 5.995E-1*X -1.823E-1	1.0000	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453010
Run Name :
Filename : 12812010
Injected : 28-DEC-2004 13:00
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	100.0000	94.04000	ug/L	-6	10	
Antimony	100.0000	94.64000	ug/L	-5	10	
Arsenic	100.0000	100.7000	ug/L	1	10	
Barium	100.0000	99.47000	ug/L	-1	10	
Beryllium	100.0000	97.82000	ug/L	-2	10	
Cadmium	100.0000	102.0000	ug/L	2	10	
Calcium	10000.00	10240.00	ug/L	2	10	
Chromium	100.0000	101.3000	ug/L	1	10	
Cobalt	100.0000	102.2000	ug/L	2	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	10000.00	10380.00	ug/L	4	10	
Lead	100.0000	98.93000	ug/L	-1	10	
Magnesium	10000.00	10130.00	ug/L	1	10	
Manganese	100.0000	102.5000	ug/L	3	10	
Molybdenum	100.0000	101.5000	ug/L	2	10	
Nickel	100.0000	103.4000	ug/L	3	10	
Potassium	10000.00	10160.00	ug/L	2	10	
Selenium	100.0000	100.8000	ug/L	1	10	
Silver	100.0000	97.22000	ug/L	-3	10	
Sodium	10000.00	10120.00	ug/L	1	10	
Thallium	100.0000	101.8000	ug/L	2	10	
Vanadium	100.0000	101.9000	ug/L	2	10	
Zinc	100.0000	104.0000	ug/L	4	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	820716	-0.99
Scandium	967032	967066	0.00
Germanium	165849	170000	2.50
Indium	1289542	1234476	-4.27
Bismuth	1116417	1074041	-3.80
Terbium	1758047	1733380	-1.40

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453029
Run Name :
Filename : 12812029
IDF : 1.0
Injected : 28-DEC-2004 14:51
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2645	100.0000	95.04000	ug/L	-5	10	
Antimony	0.1469	100.0000	97.13000	ug/L	-3	10	
Arsenic	0.2542	100.0000	99.05000	ug/L	-1	10	
Barium	0.0448	100.0000	95.20000	ug/L	-5	10	
Beryllium	0.0819	100.0000	91.90000	ug/L	-8	10	
Cadmium	0.2738	100.0000	109.4000	ug/L	9	10	
Calcium	0.0095	10000.00	9932.000	ug/L	-1	10	
Chromium	1.8273	100.0000	101.1000	ug/L	1	10	
Cobalt	1.7878	100.0000	97.54000	ug/L	-2	10	
Copper	0.4275	100.0000	103.3000	ug/L	3	10	
Iron	0.0503	10000.00	11040.00	ug/L	10	10	
Lead	0.5033	100.0000	96.00000	ug/L	-4	10	
Magnesium	0.0357	10000.00	10320.00	ug/L	3	10	
Manganese	2.5230	100.0000	109.8000	ug/L	10	10	
Molybdenum	0.5460	100.0000	104.3000	ug/L	4	10	
Nickel	0.3892	100.0000	106.9000	ug/L	7	10	
Potassium	0.3077	10000.00	9685.000	ug/L	-3	10	
Selenium	0.0230	100.0000	102.2000	ug/L	2	10	
Silver	1.2511	100.0000	103.7000	ug/L	4	10	
Sodium	0.3838	10000.00	10130.00	ug/L	1	10	
Thallium	0.3878	100.0000	100.6000	ug/L	1	10	
Vanadium	2.4445	100.0000	107.6000	ug/L	8	10	
Zinc	0.2423	100.0000	100.6000	ug/L	1	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	784958	-5.30
Scandium	967032	870829	-9.95
Germanium	165849	143457	-13.50
Indium	1289542	1164561	-9.69
Bismuth	1116417	1036254	-7.18
Terbium	1758047	1587033	-9.73

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453043
Run Name :
Filename : 12812043
IDF : 1.0
Injected : 28-DEC-2004 16:14
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2612	100.0000	93.83000	ug/L	-6	10	
Antimony	0.1476	100.0000	97.55000	ug/L	-2	10	
Arsenic	0.2562	100.0000	99.85000	ug/L	0	10	
Barium	0.0447	100.0000	94.94000	ug/L	-5	10	
Beryllium	0.0824	100.0000	92.47000	ug/L	-8	10	
Cadmium	0.2719	100.0000	108.7000	ug/L	9	10	
Calcium	0.0094	10000.00	9822.000	ug/L	-2	10	
Chromium	1.8116	100.0000	100.2000	ug/L	0	10	
Cobalt	1.7693	100.0000	96.53000	ug/L	-3	10	
Copper	0.4269	100.0000	103.2000	ug/L	3	10	
Iron	0.0497	10000.00	10890.00	ug/L	9	10	
Lead	0.4988	100.0000	95.14000	ug/L	-5	10	
Magnesium	0.0355	10000.00	10250.00	ug/L	3	10	
Manganese	2.5070	100.0000	109.1000	ug/L	9	10	
Molybdenum	0.5373	100.0000	102.6000	ug/L	3	10	
Nickel	0.3854	100.0000	105.9000	ug/L	6	10	
Potassium	0.3037	10000.00	9558.000	ug/L	-4	10	
Selenium	0.0229	100.0000	101.5000	ug/L	2	10	
Silver	1.2475	100.0000	103.4000	ug/L	3	10	
Sodium	0.3802	10000.00	10040.00	ug/L	0	10	
Thallium	0.3821	100.0000	99.10000	ug/L	-1	10	
Vanadium	2.4212	100.0000	106.6000	ug/L	7	10	
Zinc	0.2398	100.0000	99.56000	ug/L	0	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	787140	-5.04
Scandium	967032	888871	-8.08
Germanium	165849	145475	-12.28
Indium	1289542	1165119	-9.65
Bismuth	1116417	1023117	-8.36
Terbium	1758047	1579246	-10.17

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453063

Run Name :
Filename : 12812063

IDF : 1.0
Injected : 28-DEC-2004 18:11
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2597	100.0000	93.28000	ug/L	-7	10	
Antimony	0.1416	100.0000	93.60000	ug/L	-6	10	
Arsenic	0.2520	100.0000	98.21000	ug/L	-2	10	
Barium	0.0442	100.0000	93.85000	ug/L	-6	10	
Beryllium	0.0816	100.0000	91.53000	ug/L	-8	10	
Cadmium	0.2640	100.0000	105.5000	ug/L	6	10	
Calcium	0.0095	10000.00	9918.000	ug/L	-1	10	
Chromium	1.7628	100.0000	97.48000	ug/L	-3	10	
Cobalt	1.7270	100.0000	94.22000	ug/L	-6	10	
Copper	0.4206	100.0000	101.7000	ug/L	2	10	
Iron	0.0484	10000.00	10610.00	ug/L	6	10	
Lead	0.4952	100.0000	94.44000	ug/L	-6	10	
Magnesium	0.0352	10000.00	10160.00	ug/L	2	10	
Manganese	2.4390	100.0000	106.2000	ug/L	6	10	
Molybdenum	0.5348	100.0000	102.1000	ug/L	2	10	
Nickel	0.3740	100.0000	102.8000	ug/L	3	10	
Potassium	0.3077	10000.00	9684.000	ug/L	-3	10	
Selenium	0.0222	100.0000	97.57000	ug/L	-2	10	
Silver	1.2020	100.0000	99.65000	ug/L	0	10	
Sodium	0.3786	10000.00	9996.000	ug/L	0	10	
Thallium	0.3833	100.0000	99.41000	ug/L	-1	10	
Vanadium	2.3642	100.0000	104.1000	ug/L	4	10	
Zinc	0.2371	100.0000	98.43000	ug/L	-2	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	805353	-2.84
Scandium	967032	904892	-6.43
Germanium	165849	151478	-8.66
Indium	1289542	1189862	-7.73
Bismuth	1116417	1038088	-7.02
Terbium	1758047	1617327	-8.00

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453088

Run Name :
Filename : 12812088

IDF : 1.0
Injected : 28-DEC-2004 20:39
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2857	150.0000	155.4000	ug/L	4	10	
Antimony	0.1334	150.0000	132.2000	ug/L	**-12**	10	c- **
Arsenic	0.2497	150.0000	145.3000	ug/L	-3	10	
Barium	0.0444	150.0000	141.4000	ug/L	-6	10	
Beryllium	0.0806	150.0000	135.7000	ug/L	-10	10	
Cadmium	0.2669	150.0000	160.2000	ug/L	7	10	
Calcium	0.0092	15000.00	14350.00	ug/L	-4	10	
Chromium	1.9836	150.0000	164.9000	ug/L	10	10	
Cobalt	1.9423	150.0000	159.0000	ug/L	6	10	
Copper	0.4160	150.0000	151.0000	ug/L	1	10	
Iron	0.0489	15000.00	16090.00	ug/L	7	10	
Lead	0.4877	150.0000	139.6000	ug/L	-7	10	
Magnesium	0.0348	15000.00	15090.00	ug/L	1	10	
Manganese	2.4754	150.0000	161.7000	ug/L	8	10	
Molybdenum	0.5383	150.0000	154.3000	ug/L	3	10	
Nickel	0.3807	150.0000	157.0000	ug/L	5	10	
Potassium	0.2990	15000.00	14180.00	ug/L	-5	10	
Selenium	0.0210	150.0000	152.2000	ug/L	1	10	
Silver	1.2179	150.0000	151.5000	ug/L	1	10	
Sodium	0.3710	15000.00	14700.00	ug/L	-2	10	
Thallium	0.3888	150.0000	151.4000	ug/L	1	10	
Vanadium	2.4802	150.0000	163.9000	ug/L	9	10	
Zinc	0.2328	150.0000	145.5000	ug/L	-3	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	761371	-8.15
Scandium	967032	861979	-10.86
Germanium	165849	139435	-15.93
Indium	1289542	1130902	-12.30
Bismuth	1116417	974842	-12.68
Terbium	1758047	1520943	-13.49

-=low bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453003 Run Name: std-blk Injected: 28-DEC-2004 12:24
Filename: 12812003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453012 Run Name:
Filename: 12812012 Run Type: ICB

Injected: 28-DEC-2004 13:12

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	[0.0700]	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	[0.0613]	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	ND	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	ND	50.00000	ug/L	<RL	
Manganese	ND	0.250000	ug/L	<RL	
Molybdenum	ND	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	0.895000	0.500000	ug/L	<RL	ib ***
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	[0.3929]	0.500000	ug/L	<RL	
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

ib=instrument blank
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453031 Run Name:
Filename: 12812031 Run Type: CCB

Injected: 28-DEC-2004 15:03

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.1238]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	[0.0746]	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453045 Run Name:
Filename: l2812045 Run Type: CCB

Injected: 28-DEC-2004 16:26

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.0765]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	[0.1652]	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453065 Run Name:
Filename: 12812065 Run Type: CCB

Injected: 28-DEC-2004 18:23

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.1067]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.1813]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453090 Run Name:
Filename: 12812090 Run Type: CCB

Injected: 28-DEC-2004 20:51

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.1576]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	[0.0710]	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	[9.1040]	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.2844]	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453013 Run Name:
Filename: 12812013 Run Type: ICSA

Injected: 28-DEC-2004 13:18

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.532000	0.250000	ug/L	<RL
Arsenic	0.764900	0.500000	ug/L	<RL
Barium	0.940700	0.250000	ug/L	<RL
Beryllium	[0.0905]	0.250000	ug/L	<RL
Cadmium	[0.1652]	0.250000	ug/L	<RL
Chromium	1.610000	0.500000	ug/L	<RL
Cobalt	2.562000	0.250000	ug/L	<RL
Copper	1.845000	0.500000	ug/L	<RL
Lead	1.383000	0.250000	ug/L	<RL
Manganese	1.043000	0.250000	ug/L	<RL
Nickel	2.422000	0.250000	ug/L	<RL
Selenium	2.338000	0.500000	ug/L	<RL
Silver	[0.1667]	0.250000	ug/L	<RL
Thallium	0.587100	0.500000	ug/L	<RL
Vanadium	[0.2138]	1.000000	ug/L	<RL
Zinc	3.987000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	98890	ug/L	99
Calcium	300000	307300	ug/L	102
Iron	250000	245500	ug/L	98
Magnesium	100000	101900	ug/L	102
Molybdenum	2000	2025	ug/L	101
Potassium	100000	101100	ug/L	101
Sodium	250000	242000	ug/L	97

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453014

Run Name :
Filename : 12812014

Injected : 28-DEC-2004 13:23
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	98630.00	ug/L	-1		
Arsenic	100.0000	110.9000	ug/L	11	20	
Cadmium	100.0000	97.65000	ug/L	-2	20	
Calcium	300000.0	300400.0	ug/L	0		
Chromium	200.0000	205.9000	ug/L	3	20	
Cobalt	200.0000	198.7000	ug/L	-1	20	
Copper	200.0000	200.2000	ug/L	0	20	
Iron	250000.0	238000.0	ug/L	-5		
Magnesium	100000.0	101800.0	ug/L	2		
Manganese	200.0000	203.7000	ug/L	2	20	
Molybdenum	2000.000	1989.000	ug/L	-1		
Nickel	200.0000	203.8000	ug/L	2	20	
Potassium	100000.0	99540.00	ug/L	0		
Selenium	100.0000	107.8000	ug/L	8	20	
Silver	50.00000	46.93000	ug/L	-6	20	
Sodium	250000.0	241200.0	ug/L	-4		
Vanadium	200.0000	207.5000	ug/L	4	20	
Zinc	100.0000	100.1000	ug/L	0	20	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	834475	0.67
Scandium	967032	1034432	6.97
Germanium	165849	186366	12.37
Indium	1289542	1188659	-7.82
Bismuth	1116417	939992	-15.80
Terbium	1758047	1771016	0.74

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453070
Run Name :
Filename : 12812070
Injected : 28-DEC-2004 18:52
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	95750.00	ug/L	-4		
Arsenic	100.0000	103.6000	ug/L	4	20	
Cadmium	100.0000	95.00000	ug/L	-5	20	
Calcium	300000.0	288700.0	ug/L	-4		
Chromium	200.0000	203.2000	ug/L	2	20	
Cobalt	200.0000	191.3000	ug/L	-4	20	
Copper	200.0000	187.8000	ug/L	-6	20	
Iron	250000.0	236400.0	ug/L	-5		
Magnesium	100000.0	98400.00	ug/L	-2		
Manganese	200.0000	199.5000	ug/L	0	20	
Molybdenum	2000.000	2008.000	ug/L	0		
Nickel	200.0000	191.9000	ug/L	-4	20	
Potassium	100000.0	94750.00	ug/L	-5		
Selenium	100.0000	98.01000	ug/L	-2	20	
Silver	50.00000	45.55000	ug/L	-9	20	
Sodium	250000.0	232000.0	ug/L	-7		
Vanadium	200.0000	205.1000	ug/L	3	20	
Zinc	100.0000	96.85000	ug/L	-3	20	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	746592	-9.93
Scandium	967032	910593	-5.84
Germanium	165849	159153	-4.04
Indium	1289542	1087815	-15.64
Bismuth	1116417	894839	-19.85
Terbium	1758047	1583617	-9.92

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453092

Run Name :
Filename : 12812092

Injected : 28-DEC-2004 21:02
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	96750.00	ug/L	-3		
Arsenic	100.0000	102.9000	ug/L	3	20	
Cadmium	100.0000	97.86000	ug/L	-2	20	
Calcium	300000.0	285500.0	ug/L	-5		
Chromium	200.0000	213.4000	ug/L	7	20	
Cobalt	200.0000	200.0000	ug/L	0	20	
Copper	200.0000	189.1000	ug/L	-5	20	
Iron	250000.0	245400.0	ug/L	-2		
Magnesium	100000.0	98860.00	ug/L	-1		
Manganese	200.0000	208.5000	ug/L	4	20	
Molybdenum	2000.000	2058.000	ug/L	3		
Nickel	200.0000	200.0000	ug/L	0	20	
Potassium	100000.0	93270.00	ug/L	-7		
Selenium	100.0000	97.01000	ug/L	-3	20	
Silver	50.00000	46.75000	ug/L	-7	20	
Sodium	250000.0	232400.0	ug/L	-7		
Vanadium	200.0000	216.7000	ug/L	8	20	
Zinc	100.0000	95.98000	ug/L	-4	20	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	723475	-12.72
Scandium	967032	869191	-10.12
Germanium	165849	145458	-12.29
Indium	1289542	1049431	-18.62
Bismuth	1116417	862080	-22.78
Terbium	1758047	1495316	-14.94

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54523453 Instrument: MET05 Agilent ICP-MS Begun: 28-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	12812001	TUN				28-DEC-2004 12:13	1.0	1.0		1	
003	12812003	IB	std-blk			28-DEC-2004 12:24	1.0	1.0		2	
004	12812004	ICAL	cal			28-DEC-2004 12:29	1.0			3 2	
005	12812005	ICAL	cs2			28-DEC-2004 12:34	1.0			4 2	
006	12812006	ICAL	cs3			28-DEC-2004 12:40	1.0			5 2	
007	12812007	ICAL	cs4			28-DEC-2004 12:45	1.0			6 2	
008	12812008	ICAL	cs5			28-DEC-2004 12:50	1.0			7 2	
009	12812009	ICAL	cs6			28-DEC-2004 12:55	1.0			8 2	
010	12812010	ICV				28-DEC-2004 13:00	1.0	1.0		9 2	
012	12812012	ICB				28-DEC-2004 13:12	1.0	1.0	1	2	
013	12812013	ICSA				28-DEC-2004 13:18	1.0	1.0		10 2	7:CA=307300
014	12812014	ICSAB				28-DEC-2004 13:23	1.0	1.0		11 2	12:CA=300400
016	12812016	SAMPLE	176726-001	97646	Filtra	28-DEC-2004 13:35	100.0	1.0		2	
017	12812017	SAMPLE	176726-002	97646	Filtra	28-DEC-2004 13:41	5.0	1.0		2	
018	12812018	SAMPLE	176726-003	97646	Filtra	28-DEC-2004 13:47	5.0	1.0		2	
019	12812019	SAMPLE	176726-005	97646	Filtra	28-DEC-2004 13:53	25.0	1.0	1	2	1:MN=641.200
020	12812020	SAMPLE	176726-005	97646	Filtra	28-DEC-2004 13:58	100.0	1.0		2	
021	12812021	SAMPLE	176726-006	97646	Filtra	28-DEC-2004 14:04	20.0	1.0		2	
022	12812022	SAMPLE	176726-007	97646	Filtra	28-DEC-2004 14:10	5.0	1.0		2	
023	12812023	SAMPLE	176726-008	97646	Filtra	28-DEC-2004 14:16	5.0	1.0		2	
029	12812029	CCV				28-DEC-2004 14:51	1.0	1.0		12 2	
031	12812031	CCB				28-DEC-2004 15:03	1.0	1.0		2	
032	12812032	SAMPLE	176728-001	97646	Filtra	28-DEC-2004 15:09	10.0	1.0		2	
033	12812033	SAMPLE	176726-006	97646	Filtra	28-DEC-2004 15:15	1.0	1.0	3	2	3:MG=236900
034	12812034	SAMPLE	176726-007	97646	Filtra	28-DEC-2004 15:21	1.0	1.0	3	2	3:NA=64520.0
035	12812035	SAMPLE	176726-008	97646	Filtra	28-DEC-2004 15:27	1.0	1.0	3	2	3:NA=64070.0
036	12812036	SAMPLE	176728-002	97646	Filtra	28-DEC-2004 15:33	20.0	1.0		2	
037	12812037	SAMPLE	176728-001	97646	Filtra	28-DEC-2004 15:39	1.0	1.0	5	2	5:NA=94860.0
038	12812038	SAMPLE	176728-002	97646	Filtra	28-DEC-2004 15:44	1.0	1.0	5	2	5:MG=86440.0
039	12812039	SAMPLE	176723-001	97646	Filtra	28-DEC-2004 15:50	10.0	1.0		2	
040	12812040	SAMPLE	176723-002	97646	Filtra	28-DEC-2004 15:56	10.0	1.0		2	

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04WS2319

Analyst: K Carlyon Date: 12/28/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54523453 Instrument: MET05 Agilent ICP-MS Begun: 28-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

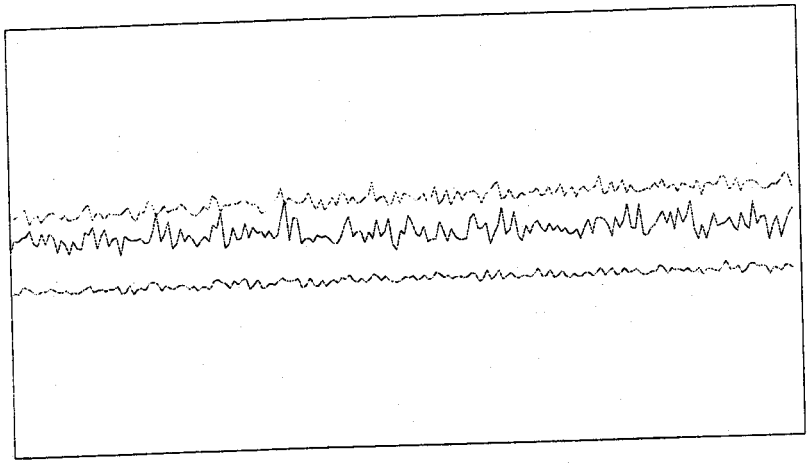
#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
041	12812041	SAMPLE	176723-001	97646	Filtra	28-DEC-2004 16:02	1.0	1.0	2		2	2:MG=114100
043	12812043	CCV				28-DEC-2004 16:14	1.0	1.0			12 2	
045	12812045	CCB				28-DEC-2004 16:26	1.0	1.0			2	
046	12812046	SAMPLE	176723-002	97646	Filtra	28-DEC-2004 16:32	1.0	1.0	2		2	2:MG=132400
047	12812047	SAMPLE	176723-003	97646	Filtra	28-DEC-2004 16:38	1.0	1.0	2		2	2:MG=132700
048	12812048	SAMPLE	176723-003	97646	Filtra	28-DEC-2004 16:43	1.0	1.0			2	
050	12812050	BS	QC276942	97646	Filtra	28-DEC-2004 16:55	1.0	1.0			2	
051	12812051	BSD	QC276943	97646	Filtra	28-DEC-2004 17:01	1.0	1.0			2	
052	12812052	BLANK	QC276941	97646	Filtra	28-DEC-2004 17:07	1.0	1.0			2	
053	12812053	MS	QC276944	97646	Filtra	28-DEC-2004 17:13	10.0	1.0	1		2	
054	12812054	MSD	QC276945	97646	Filtra	28-DEC-2004 17:19	10.0	1.0	1	1	2	
055	12812055	SAMPLE	176736-001	97646	Water	28-DEC-2004 17:25	10.0	1.0			2	2:NA=106900
056	12812056	SAMPLE	176736-002	97646	Water	28-DEC-2004 17:30	20.0	1.0			2	1:AL=625.000
057	12812057	X				28-DEC-2004 17:36	1.0	1.0			2	
063	12812063	CCV				28-DEC-2004 18:11	1.0	1.0			12 2	
065	12812065	CCB				28-DEC-2004 18:23	1.0	1.0			2	
070	12812070	ICSAB				28-DEC-2004 18:52	1.0	1.0			11 2	9:CA=288700
072	12812072	BLANK	QC277585	97810	Filtra	28-DEC-2004 19:04	1.0	1.0	1		2	
073	12812073	BS	QC277586	97810	Filtra	28-DEC-2004 19:10	1.0	1.0	1		2	
074	12812074	BSD	QC277587	97810	Filtra	28-DEC-2004 19:15	1.0	1.0	1		2	
076	12812076	MSS	176731-004	97810	Filtra	28-DEC-2004 19:27	1.0	1.0	4		2	3:NA=50510.0
077	12812077	SER	QC277590	97810	Filtra	28-DEC-2004 19:33	5.0	1.0	1		2	
078	12812078	MS	QC277588	97810	Filtra	28-DEC-2004 19:39	1.0	1.0	1		2	3:NA=59360.0
079	12812079	MSD	QC277589	97810	Filtra	28-DEC-2004 19:45	1.0	1.0	1		2	3:NA=59960.0
081	12812081	SER	QC277590	97810	Filtra	28-DEC-2004 19:58	5.0	1.0	1		2	
082	12812082	MSS	176731-004	97810	Filtra	28-DEC-2004 20:04	5.0	1.0	1		2	
088	12812088	CCV				28-DEC-2004 20:39	1.0	1.0	1		13 2	
090	12812090	CCB				28-DEC-2004 20:51	1.0	1.0			2	
092	12812092	ICSAB				28-DEC-2004 21:02	1.0	1.0			11 2	10:CA=285500

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04WS2319

Analyst: K Carlyn Date: 12/28/04

Tune Report

Tune File : ATUNE.U



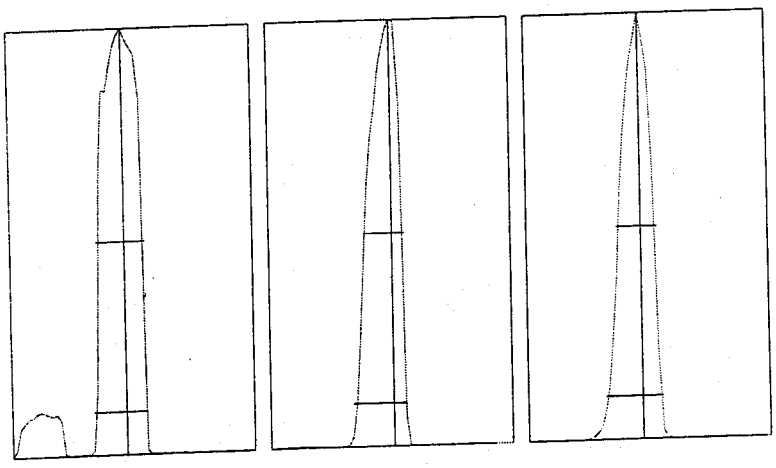
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	10,622	19,520	28,984
Mean:	10046.8	19546.7	28918.8
RSD%:	4.31	1.84	2.62
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.54%
Doubly Charged:	70/140	0.91%

Background:

m/z:	7	89	205
Cps:	82.2	41.2	37.6



m/z:	7	89	205
Height:	10,436	20,138	31,642
Axis:	6.95	89.05	204.95
W-50%:	0.60	0.50	0.50
W-10%:	0.6500	0.6500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===	
RF Power:	1330 W
RF Matching:	1.68 V
Smpl Depth:	7.9 mm
Torch-H:	1.1 mm
Torch-V:	0.1 mm
Carrier Gas:	1.03 L/min
Makeup Gas:	0 L/min
Optional Gas:	--- %
PeriPump1:	0.1 rps
PeriPump2:	--- rps
S/C Temp:	2 degC

===Ion Lenses===	
Extract 1:	-130 V
Extract 2:	-46 V
Einzel 1,3:	-126 V
Einzel 2:	16 V
Omega Bias:	-68 V
Omega (+):	3 V
Omega (-):	2 V
QP Focus:	2 V
Plate Bias:	0 V

===Q-Pole Parameters===	
AMU Gain:	128
AMU Offset:	130
Axis Gain:	1.0003
Axis Offset:	-0.02
QP Bias:	0 V

===Detector Parameters===	
Discriminator:	9.2 mV
Analog HV:	1840 V
Pulse HV:	1400 V

Generated : Dec 28, 2004 10:17:29
Printed : Dec 28, 2004 10:17:36

P/A Factor Tuning Report

Acquired:Dec 28 2004 10:27 am

Mass[amu]	Element	P/A Factor
6	Li	0.066043
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076800
26	Mg	0.076388
27	Al	0.074708
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.076167
45	Sc	0.076175
51	V	Sensitivity too low
52	Cr	Sensitivity too low
53	Cr	Sensitivity too low
54	Fe	0.074050
55	Mn	Sensitivity too low
57	Fe	0.073178
59	Co	Sensitivity too low
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.071402
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.067227
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.066678
166	Er	Sensitivity too low

205	Tl	Sensitivity too low
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	Sensitivity too low
209	Bi	0.062364
232	Th	Sensitivity too low
238	U	Sensitivity too low

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 28 2004 10:32 am

Mass[amu]	Element	P/A Factor
6	Li	0.066081
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076800
26	Mg	0.076388
27	Al	0.076798
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.078747
45	Sc	0.077978
51	V	0.077145
52	Cr	0.076027
53	Cr	Sensitivity too low
54	Fe	0.075740
55	Mn	0.076153
57	Fe	0.075841
59	Co	0.074068
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.072677
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.067508
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.068683
118	(In)	0.068929
121	Sb	0.068598
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.068310
166	Er	Sensitivity too low

205	Tl	0.064028
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.063879
209	Bi	0.064198
232	Th	0.064959
238	U	0.065372

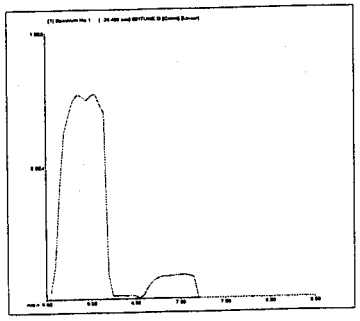
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\04L2821a.B\001TUNE.D
Date Acquired:	Dec 28 2004 09:17 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,04ws2314
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

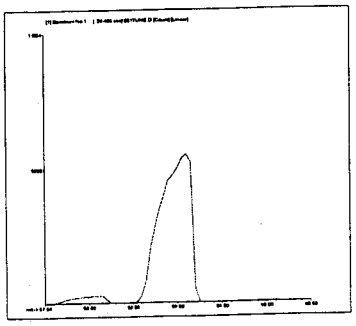
Element	Actual	Required	Flag
7 Li	0.62	5.00	
59 Co	1.33	5.00	
115 In	1.39	5.00	
205 Tl	0.95	5.00	



7 Li

Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:

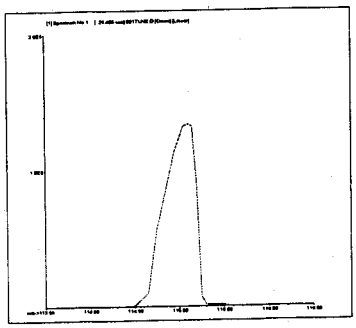
Peak Width
Actual: 0.55
Required: 0.90
Flag:



59 Co

Mass Calib.
Actual: 59.10
Required: 58.90 - 59.10
Flag:

Peak Width
Actual: 0.50
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

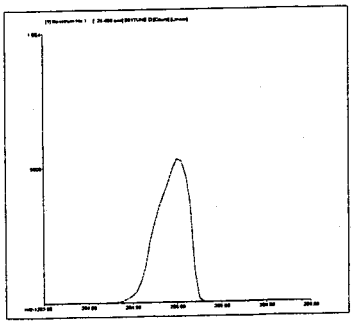
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.00

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2821a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 28 2004 09:22 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 28 2004 00:57 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.001465	ppb	804.10	0.001465	1.00	
23 Na	1.739	ppb	54.23	1.739	1.00	
26 Mg	1.249	ppb	15.39	1.249	1.00	
27 Al	-0.6561	ppb	14.70	-0.6561	1.00	
39 K	9.272	ppb	12.72	9.272	1.00	
44 Ca	-6.256	ppb	20.88	-6.256	1.00	
51 V	0.1314	ppb	20.95	0.1314	1.00	
52 Cr	0.1084	ppb	25.89	0.1084	1.00	
55 Mn	0.01454	ppb	48.38	0.01454	1.00	
57 Fe	6.834	ppb	16.77	6.834	1.00	
59 Co	0.01505	ppb	106.71	0.01505	1.00	
60 Ni	0.004746	ppb	103.67	0.004746	1.00	
65 Cu	0.03672	ppb	106.05	0.03672	1.00	
66 Zn	0.1491	ppb	31.99	0.1491	1.00	
75 As	-0.2702	ppb	335.49	-0.2702	1.00	
82 Se	-3.494	ppb	133.03	-3.494	1.00	
95 Mo	0.02006	ppb	43.08	0.02006	1.00	
109 Ag	0.01906	ppb	41.63	0.01906	1.00	
111 Cd	0.01745	ppb	37.87	0.01745	1.00	
121 Sb	0.03396	ppb	18.43	0.03396	1.00	
137 Ba	0.03928	ppb	39.84	0.03928	1.00	
205 Tl	0.2546	ppb	4.17	0.2546	1.00	
208 Pb	0.005656	ppb	30.46	0.005656	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	783199.56	0.06	---	#VALUE!	30 - 200	
45 Sc	931780.81	0.08	---	#VALUE!	30 - 200	
72 Ge	150377.33	1.28	---	#VALUE!	30 - 200	

115 In	1235295.50	1.02	---	#VALUE!	30 - 200
209 Bi	1021370.80	1.02	---	#VALUE!	30 - 200

ISTD Ref File : ---

4 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2821a.B\003CAL
Date Acquired:	Dec 28 2004 09:28 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 28 2004 00:57 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	781810.19	A	11620.00	1.49
9	Be	98.89	P	42.99	43.47
23	Na	158324.41	P	6124.00	3.87
26	Mg	2082.22	P	152.10	7.30
27	Al	7422.22	P	357.20	4.81
39	K	821585.13	A	29930.00	3.64
44	Ca	2671.83	P	55.48	2.08
45	Sc	919778.81	A	6763.00	0.74
51	V	2304.06	P	124.80	5.42
52	Cr	3253.33	P	84.13	2.59
55	Mn	867.78	P	42.34	4.88
57	Fe	6110.00	P	163.30	2.67
59	Co	326.67	P	6.67	2.04
60	Ni	141.11	P	25.24	17.89
65	Cu	638.88	P	63.80	9.99
66	Zn	947.79	P	58.91	6.22
72	Ge	147655.30	P	1687.00	1.14
75	As	-831.42	P	52.69	6.34
82	Se	1687.08	P	40.76	2.42
95	Mo	228.89	P	27.95	12.21
109	Ag	143.33	P	26.03	18.16
111	Cd	280.85	P	15.10	5.38
115	In	1216559.00	A	4765.00	0.39
121	Sb	338.89	P	23.41	6.91
137	Ba	183.33	P	14.53	7.93
205	Tl	2497.78	P	116.90	4.68
208	Pb	668.89	P	31.68	4.74
209	Bi	1018480.00	A	16660.00	1.64
232	Th	460.00	P	50.33	10.94
238	U	250.00	P	20.28	8.11

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2821a.B\004CALI.D\004CALI.D#
Date Acquired: Dec 28 2004 09:33 pm
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 09:30 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	770725.13	A	11560.00	1.50
9 Be	440.00	P	36.06	8.20
23 Na	304263.31	P	5031.00	1.65
26 Mg	16060.00	P	46.19	0.29
27 Al	8133.33	P	148.90	1.83
39 K	967145.38	A	32920.00	3.40
44 Ca	6302.44	P	64.63	1.03
45 Sc	897218.63	A	4999.00	0.56
51 V	4641.30	P	550.20	11.85
52 Cr	5068.89	P	275.20	5.43
55 Mn	2517.78	P	172.10	6.84
57 Fe	9141.11	P	298.20	3.26
59 Co	1504.44	P	87.58	5.82
60 Ni	458.89	P	39.77	8.67
65 Cu	958.82	P	18.36	1.91
66 Zn	1310.08	P	61.73	4.71
72 Ge	144386.91	P	1632.00	1.13
75 As	-1232.63	P	290.90	23.60
82 Se	1400.52	P	35.95	2.57
95 Mo	568.89	P	40.05	7.04
109 Ag	1081.11	P	15.75	1.46
111 Cd	415.97	P	1.30	0.31
115 In	1195143.00	A	11640.00	0.97
121 Sb	1105.56	P	16.44	1.49
137 Ba	422.22	P	46.83	11.09
205 Tl	3520.00	P	364.40	10.35
208 Pb	2783.33	P	86.86	3.12
209 Bi	1015226.00	A	12960.00	1.28
232 Th	2861.11	P	95.76	3.35
238 U	2442.22	P	68.50	2.80

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	770725.13	1.50	781810.25	98.6	30 - 200	
45 Sc	897218.63	0.56	919778.81	97.5	30 - 200	
72 Ge	144386.89	1.13	147655.33	97.8	30 - 200	
115 In	1195143.40	0.97	1216559.40	98.2	30 - 200	
209 Bi	1015225.60	1.28	1018480.50	99.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2821a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2821a.B\005CALI.D\005CALI.D#
Date Acquired:	Dec 28 2004 09:38 pm
Operator:	
Sample Name:	cs2,04ws2311
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 28 2004 09:35 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	755454.31	A	8818.00	1.17
9 Be	668.89	P	81.94	12.25
23 Na	466831.09	P	6492.00	1.39
26 Mg	30816.67	P	819.20	2.66
27 Al	9137.78	P	326.00	3.57
39 K	1110251.00	A	23840.00	2.15
44 Ca	10786.87	P	195.00	1.81
45 Sc	887923.50	A	5495.00	0.62
51 V	6287.02	P	713.60	11.35
52 Cr	6424.44	P	131.90	2.05
55 Mn	4178.89	P	61.94	1.48
57 Fe	12343.33	P	306.60	2.48
59 Co	2837.78	P	65.52	2.31
60 Ni	722.22	P	71.91	9.96
65 Cu	1340.98	P	29.88	2.23
66 Zn	3114.60	P	119.50	3.84
72 Ge	145173.30	P	2272.00	1.57
75 As	-655.42	P	806.90	123.11
82 Se	1570.99	P	218.40	13.90
95 Mo	980.00	P	90.25	9.21
109 Ag	1990.00	P	115.50	5.80
111 Cd	679.29	P	50.46	7.43
115 In	1184258.00	A	20780.00	1.75
121 Sb	1786.67	P	98.21	5.50
137 Ba	706.67	P	38.44	5.44
205 Tl	4386.67	P	385.30	8.78
208 Pb	5181.11	P	172.60	3.33
209 Bi	1017341.00	A	9684.00	0.95
232 Th	4254.44	P	129.10	3.03
238 U	4842.22	P	201.10	4.15

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	755454.31	1.17	781810.25	96.6	30 - 200	
45 Sc	887923.50	0.62	919778.81	96.5	30 - 200	
72 Ge	145173.33	1.57	147655.33	98.3	30 - 200	
115 In	1184258.40	1.75	1216559.40	97.3	30 - 200	
209 Bi	1017341.00	0.95	1018480.50	99.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2821a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2821a.B\006CALI.D\006CALI.D#
Date Acquired: Dec 28 2004 09:43 pm
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 09:40 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	761020.19	A	8342.00	1.10
9 Be	1366.67	P	14.53	1.06
23 Na	867157.00	A	10230.00	1.18
26 Mg	60525.55	P	68.34	0.11
27 Al	10988.89	P	319.00	2.90
39 K	1395172.00	A	39670.00	2.84
44 Ca	18340.24	P	536.10	2.92
45 Sc	874500.31	A	9028.00	1.03
51 V	9612.31	P	697.60	7.26
52 Cr	8921.11	P	182.00	2.04
55 Mn	7325.56	P	153.50	2.10
57 Fe	18573.33	P	429.20	2.31
59 Co	5370.00	P	156.50	2.91
60 Ni	1328.89	P	18.95	1.43
65 Cu	1881.96	P	41.95	2.23
66 Zn	2425.86	P	89.46	3.69
72 Ge	142615.80	P	2176.00	1.53
75 As	-1008.46	P	454.20	45.04
82 Se	1281.32	P	198.70	15.51
95 Mo	1724.44	P	91.79	5.32
109 Ag	3697.78	P	111.80	3.02
111 Cd	1002.67	P	50.82	5.07
115 In	1166805.00	A	7238.00	0.62
121 Sb	3288.89	P	115.00	3.50
137 Ba	1221.11	P	76.76	6.29
205 Tl	6601.11	P	249.90	3.79
208 Pb	9497.78	P	118.60	1.25
209 Bi	1010952.00	A	8879.00	0.88
232 Th	7277.78	P	165.10	2.27
238 U	9752.22	P	289.20	2.97

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	761020.25	1.10	781810.25	97.3	30 - 200	
45 Sc	874500.25	1.03	919778.81	95.1	30 - 200	
72 Ge	142615.78	1.53	147655.33	96.6	30 - 200	
115 In	1166804.80	0.62	1216559.40	95.9	30 - 200	
209 Bi	1010951.80	0.88	1018480.50	99.3	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2821a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2821a.B\007CALI.D\007CALI.D#
Date Acquired: Dec 28 2004 09:49 pm
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 09:45 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	763135.63	A	2790.00	0.37
9 Be	12196.67	P	191.70	1.57
23 Na	6948043.00	A	50420.00	0.73
26 Mg	630278.38	M	34160.00	5.42
27 Al	51484.44	P	1258.00	2.44
39 K	6385212.00	A	84640.00	1.33
44 Ca	155224.59	P	3242.00	2.09
45 Sc	873093.19	A	2590.00	0.30
51 V	63824.60	P	1734.00	2.72
52 Cr	55051.11	P	1092.00	1.98
55 Mn	65393.33	P	1123.00	1.72
57 Fe	134102.20	P	2912.00	2.17
59 Co	51395.55	P	1155.00	2.25
60 Ni	11395.56	P	366.60	3.22
65 Cu	12919.62	P	477.30	3.69
66 Zn	8057.60	P	457.90	5.68
72 Ge	144001.59	P	4043.00	2.81
75 As	6420.23	P	89.75	1.40
82 Se	1954.68	P	32.01	1.64
95 Mo	15794.44	P	306.70	1.94
109 Ag	35733.33	P	952.00	2.66
111 Cd	8015.50	P	249.10	3.11
115 In	1155720.00	A	15790.00	1.37
121 Sb	31030.00	P	701.80	2.26
137 Ba	10207.78	P	333.90	3.27
205 Tl	54770.00	P	1866.00	3.41
208 Pb	93104.44	P	2761.00	2.97
209 Bi	1009873.00	A	6708.00	0.66
232 Th	63832.22	P	1950.00	3.05
238 U	96937.78	P	2300.00	2.37

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	763135.63	0.37	781810.25	97.6	30 - 200	
45 Sc	873093.19	0.30	919778.81	94.9	30 - 200	
72 Ge	144001.55	2.81	147655.33	97.5	30 - 200	
115 In	1155719.60	1.37	1216559.40	95.0	30 - 200	
209 Bi	1009872.70	0.66	1018480.50	99.2	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2821a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2821a.B\008CALI.D\008CALI.D#
Date Acquired: Dec 28 2004 09:54 pm
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 09:50 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	763821.38	A	4009.00	0.52
9	Be	122850.00	P	1946.00	1.58
23	Na	66601832.00	A	720900.00	1.08
26	Mg	6148301.00	A	38580.00	0.63
27	Al	460716.59	P	11280.00	2.45
39	K	54488820.00	A	536000.00	0.98
44	Ca	1677361.00	A	21770.00	1.30
45	Sc	882299.31	A	8270.00	0.94
51	V	699480.63	A	5792.00	0.83
52	Cr	516047.69	P	13570.00	2.63
55	Mn	714543.19	A	7500.00	1.05
57	Fe	1411036.00	A	11660.00	0.83
59	Co	503571.09	P	13100.00	2.60
60	Ni	109400.00	P	4175.00	3.82
65	Cu	122318.30	P	4751.00	3.88
66	Zn	70279.63	P	1875.00	2.67
72	Ge	148261.09	P	3627.00	2.45
75	As	74067.35	P	2117.00	2.86
82	Se	6385.05	P	364.60	5.71
95	Mo	157495.59	P	3685.00	2.34
109	Ag	352384.41	P	10160.00	2.88
111	Cd	76467.24	P	1789.00	2.34
115	In	1153133.00	A	17170.00	1.49
121	Sb	325684.41	P	8941.00	2.75
137	Ba	100655.50	P	3425.00	3.40
205	Tl	760037.81	A	8647.00	1.14
208	Pb	978216.69	A	10240.00	1.05
209	Bi	995459.81	A	18360.00	1.84
232	Th	908984.88	A	18240.00	2.01
238	U	1152753.00	A	3806.00	0.33

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	763821.44	0.52	781810.25	97.7	30 - 200	
45 Sc	882299.31	0.94	919778.81	95.9	30 - 200	
72 Ge	148261.11	2.45	147655.33	100.4	30 - 200	
115 In	1153133.40	1.49	1216559.40	94.8	30 - 200	
209 Bi	995459.88	1.84	1018480.50	97.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2821a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2821a.B\009CALI.D\009CALI.D#
Date Acquired: Dec 28 2004 09:59 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 09:56 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	743952.88	A	7126.00	0.96
9	Be	241732.20	P	3457.00	1.43
23	Na	129313000.00	A	1276000.00	0.99
26	Mg	11906210.00	A	68670.00	0.58
27	Al	971480.00	A	6986.00	0.72
39	K	105125900.00	A	549300.00	0.52
44	Ca	3214165.00	A	20170.00	0.63
45	Sc	866833.69	A	9061.00	1.05
51	V	1374203.00	A	7724.00	0.56
52	Cr	1095627.00	A	10900.00	0.99
55	Mn	1381021.00	A	12450.00	0.90
57	Fe	2713317.00	A	34910.00	1.29
59	Co	1081239.00	A	9451.00	0.87
60	Ni	214397.80	P	4497.00	2.10
65	Cu	237877.09	P	6318.00	2.66
66	Zn	133016.20	P	3907.00	2.94
72	Ge	146767.09	P	2835.00	1.93
75	As	148503.09	P	2735.00	1.84
82	Se	11268.50	P	63.27	0.56
95	Mo	311094.41	P	8063.00	2.59
109	Ag	740579.31	A	10500.00	1.42
111	Cd	149656.70	P	3691.00	2.47
115	In	1118337.00	A	9465.00	0.85
121	Sb	665599.19	A	6957.00	1.05
137	Ba	199990.00	P	4423.00	2.21
205	Tl	1443384.00	A	8296.00	0.57
208	Pb	1919826.00	A	35290.00	1.84
209	Bi	965045.69	A	16430.00	1.70
232	Th	2200825.00	A	8162.00	0.37
238	U	2235414.00	A	11200.00	0.50

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	743952.94	0.96	781810.25	95.2	30 - 200	
45 Sc	866833.69	1.05	919778.81	94.2	30 - 200	
72 Ge	146767.11	1.93	147655.33	99.4	30 - 200	
115 In	1118337.00	0.85	1216559.40	91.9	30 - 200	
209 Bi	965045.69	1.70	1018480.50	94.8	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2821a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 28, 2004 22:03
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412821a.b\003calb.d\	003calb.d#	Dec 28 2004 09:28 pm
2	...hem\1\data\0412821a.b\004cali.d\	004cali.d#	Dec 28 2004 09:33 pm
3	...hem\1\data\0412821a.b\005cali.d\	005cali.d#	Dec 28 2004 09:38 pm
4	...hem\1\data\0412821a.b\006cali.d\	006cali.d#	Dec 28 2004 09:43 pm
5	...hem\1\data\0412821a.b\007cali.d\	007cali.d#	Dec 28 2004 09:49 pm
6	...hem\1\data\0412821a.b\008cali.d\	008cali.d#	Dec 28 2004 09:54 pm
7	...hem\1\data\0412821a.b\009cali.d\	009cali.d#	Dec 28 2004 09:59 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 8.109E-2*X -3.323E-3	1.0000	ppb
Na	23	45	Y = 3.729E-1*X +1.694E+1	1.0000	ppb
Mg	25	45	Y = 3.058E-2*X +2.128E-1	1.0000	ppb
Mg	26	45	Y = 3.439E-2*X +9.104E-1	1.0000	ppb
Al	27	45	Y = 2.756E-1*X +1.323E-1	0.9994	ppb
K	39	45	Y = 3.011E-1*X +5.431E+1	1.0000	ppb
Ca	43	45	Y = 5.360E-4*X +8.353E-3	1.0000	ppb
Ca	44	45	Y = 9.303E-3*X +2.323E-1	0.9999	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.341E+0*X +5.703E-1	1.0000	ppb
Cr	52	72	Y = 1.843E+0*X -1.773E-1	0.9994	ppb
Cr	53	72	Y = 1.954E-1*X +2.407E+0	0.9991	ppb
Fe	54	72	Y = 1.133E-1*X +5.773E+0	0.9999	ppb
Mn	55	72	Y = 2.361E+0*X +4.885E-1	0.9999	ppb
Fe	57	72	Y = 4.632E-2*X +2.811E+0	0.9999	ppb
Co	59	72	Y = 1.820E+0*X -1.126E+0	0.9993	ppb
Ni	60	72	Y = 3.651E-1*X +1.395E-1	1.0000	ppb
Cu	63	72	Y = 8.444E-1*X +1.119E+0	1.0000	ppb
Cu	65	72	Y = 4.045E-1*X +3.473E-1	1.0000	ppb
Zn	66	72	Y = 2.245E-1*X +6.869E-1	0.9998	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.548E-1*X -4.033E-1	1.0000	ppb
(As)	77	72	Y = 1.211E-2*X +4.256E-1	0.9959	ppb
Se	82	72	Y = 1.660E-2*X +5.100E-1	0.9994	ppb
(As)	83	72	Y = 4.532E-4*X +6.987E+0	0.5519	ppb
(Ca)	88	72	Y = 8.733E-3*X +7.511E-2	0.9993	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 5.295E-1*X +1.103E-1	1.0000	ppb
Mo	98	72	Y = 8.451E-1*X +8.908E-2	1.0000	ppb
(Mo)	99	72	Y = 1.259E-5*X +1.859E-2	0.4597	ppb
(Cd)	106	72	Y = 2.279E-2*X +1.248E-1	0.9999	ppb
(Cd)	108	72	Y = 1.698E-2*X +1.802E-2	1.0000	ppb
Ag	109	72	Y = 1.250E+0*X -5.463E-1	0.9996	ppb
Cd	111	72	Y = 2.547E-1*X +1.405E-1	1.0000	ppb
Cd	114	72	Y = 5.881E-1*X +1.335E-1	1.0000	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.478E-1*X -8.023E-2	0.9997	ppb
Ba	135	115	Y = 2.581E-2*X -2.852E-3	0.9999	ppb
Ba	137	115	Y = 4.451E-2*X -3.157E-3	0.9999	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.762E-1*X -1.383E-1	0.9998	ppb
(Pb)	206	209	Y = 1.144E-1*X -5.810E-3	1.0000	ppb
(Pb)	207	209	Y = 1.021E-1*X -1.193E-2	1.0000	ppb
Pb	208	209	Y = 4.968E-1*X -1.065E-1	1.0000	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 5.577E-1*X -1.707E+0	0.9955	ppb
U	238	209	Y = 5.803E-1*X -2.159E-1	1.0000	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523997010

Run Name :
Filename : 12821010

Injected : 28-DEC-2004 22:04
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	100.0000	93.46000	ug/L	-7	10
Antimony	100.0000	93.28000	ug/L	-7	10
Arsenic	100.0000	100.6000	ug/L	1	10
Barium	100.0000	99.10000	ug/L	-1	10
Beryllium	100.0000	100.3000	ug/L	0	10
Cadmium	100.0000	102.0000	ug/L	2	10
Calcium	10000.00	10150.00	ug/L	2	10
Chromium	100.0000	95.16000	ug/L	-5	10
Cobalt	100.0000	94.86000	ug/L	-5	10
Copper	100.0000	102.4000	ug/L	2	10
Iron	10000.00	10270.00	ug/L	3	10
Lead	100.0000	100.0000	ug/L	0	10
Magnesium	10000.00	10180.00	ug/L	2	10
Manganese	100.0000	102.6000	ug/L	3	10
Molybdenum	100.0000	100.4000	ug/L	0	10
Nickel	100.0000	101.7000	ug/L	2	10
Potassium	10000.00	10130.00	ug/L	1	10
Selenium	100.0000	103.3000	ug/L	3	10
Silver	100.0000	96.34000	ug/L	-4	10
Sodium	10000.00	10100.00	ug/L	1	10
Thallium	100.0000	101.9000	ug/L	2	10
Vanadium	100.0000	100.6000	ug/L	1	10
Zinc	100.0000	103.4000	ug/L	3	10

ISTD (IB=12821003)	IB Abund	Abund	%Diff
Lithium	781810	765482	-2.09
Scandium	919779	885072	-3.77
Germanium	147655	148557	0.61
Indium	1216559	1150379	-5.44
Bismuth	1018481	997812	-2.03
Terbium	1593033	1565963	-1.70

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523997026

Run Name :
Filename : 12821026

IDF : 1.0
Injected : 28-DEC-2004 23:37
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2864	150.0000	155.4000	ug/L	4	10	
Antimony	0.1347	150.0000	137.2000	ug/L	-9	10	
Arsenic	0.2523	150.0000	150.1000	ug/L	0	10	
Barium	0.0445	150.0000	150.0000	ug/L	0	10	
Beryllium	0.0801	150.0000	148.1000	ug/L	-1	10	
Cadmium	0.2684	150.0000	157.5000	ug/L	5	10	
Calcium	0.0093	15000.00	14980.00	ug/L	0	10	
Chromium	2.0060	150.0000	163.4000	ug/L	9	10	
Cobalt	1.9614	150.0000	162.3000	ug/L	8	10	
Copper	0.4190	150.0000	154.5000	ug/L	3	10	
Iron	0.0495	15000.00	15970.00	ug/L	6	10	
Lead	0.4947	150.0000	149.6000	ug/L	0	10	
Magnesium	0.0350	15000.00	15230.00	ug/L	2	10	
Manganese	2.5282	150.0000	160.4000	ug/L	7	10	
Molybdenum	0.5434	150.0000	153.8000	ug/L	3	10	
Nickel	0.3859	150.0000	158.1000	ug/L	5	10	
Potassium	0.3023	15000.00	14880.00	ug/L	-1	10	
Selenium	0.0205	150.0000	154.4000	ug/L	3	10	
Silver	1.2372	150.0000	148.8000	ug/L	-1	10	
Sodium	0.3762	15000.00	15090.00	ug/L	1	10	
Thallium	0.3932	150.0000	157.1000	ug/L	5	10	
Vanadium	2.5145	150.0000	160.9000	ug/L	7	10	
Zinc	0.2350	150.0000	154.0000	ug/L	3	10	

ISTD (IB=12821003)	IB Abund	Abund	%Diff
Lithium	781810	712676	-8.84
Scandium	919779	819759	-10.87
Germanium	147655	132263	-10.42
Indium	1216559	1083367	-10.95
Bismuth	1018481	942306	-7.48
Terbium	1593033	1453935	-8.73

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523997041

Run Name :
Filename : 12821041

IDF : 1.0
Injected : 29-DEC-2004 01:05
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2813	150.0000	152.6000	ug/L	2	10	
Antimony	0.1332	150.0000	135.7000	ug/L	-10	10	
Arsenic	0.2501	150.0000	148.8000	ug/L	-1	10	
Barium	0.0441	150.0000	148.7000	ug/L	-1	10	
Beryllium	0.0785	150.0000	145.3000	ug/L	-3	10	
Cadmium	0.2708	150.0000	158.9000	ug/L	6	10	
Calcium	0.0092	15000.00	14830.00	ug/L	-1	10	
Chromium	2.0348	150.0000	165.8000	ug/L	**11**	10	c+ **
Cobalt	1.9822	150.0000	164.0000	ug/L	9	10	
Copper	0.4196	150.0000	154.7000	ug/L	3	10	
Iron	0.0503	15000.00	16230.00	ug/L	8	10	
Lead	0.4878	150.0000	147.5000	ug/L	-2	10	
Magnesium	0.0346	15000.00	15070.00	ug/L	0	10	
Manganese	2.5633	150.0000	162.6000	ug/L	8	10	
Molybdenum	0.5430	150.0000	153.6000	ug/L	2	10	
Nickel	0.3897	150.0000	159.7000	ug/L	6	10	
Potassium	0.2971	15000.00	14630.00	ug/L	-2	10	
Selenium	0.0201	150.0000	150.6000	ug/L	0	10	
Silver	1.2937	150.0000	155.6000	ug/L	4	10	
Sodium	0.3669	15000.00	14720.00	ug/L	-2	10	
Thallium	0.3826	150.0000	152.9000	ug/L	2	10	
Vanadium	2.5384	150.0000	162.4000	ug/L	8	10	
Zinc	0.2325	150.0000	152.4000	ug/L	2	10	

ISTD (IB=12821003)	IB Abund	Abund	%Diff
Lithium	781810	713317	-8.76
Scandium	919779	816816	-11.19
Germanium	147655	129288	-12.44
Indium	1216559	1080647	-11.17
Bismuth	1018481	945291	-7.19
Terbium	1593033	1430446	-10.21

+=high bias c=CCV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523997050

Run Name :
Filename : 12821050

IDF : 1.0
Injected : 29-DEC-2004 01:57
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2930	150.0000	159.0000	ug/L	6	10	
Antimony	0.1347	150.0000	137.2000	ug/L	-9	10	
Arsenic	0.2512	150.0000	149.5000	ug/L	0	10	
Barium	0.0447	150.0000	150.6000	ug/L	0	10	
Beryllium	0.0795	150.0000	147.1000	ug/L	-2	10	
Cadmium	0.2671	150.0000	156.8000	ug/L	5	10	
Calcium	0.0092	15000.00	14820.00	ug/L	-1	10	
Chromium	2.0187	150.0000	164.4000	ug/L	10	10	
Cobalt	1.9729	150.0000	163.2000	ug/L	9	10	
Copper	0.4170	150.0000	153.8000	ug/L	3	10	
Iron	0.0504	15000.00	16250.00	ug/L	8	10	
Lead	0.4904	150.0000	148.3000	ug/L	-1	10	
Magnesium	0.0348	15000.00	15160.00	ug/L	1	10	
Manganese	2.5387	150.0000	161.1000	ug/L	7	10	
Molybdenum	0.5349	150.0000	151.3000	ug/L	1	10	
Nickel	0.3898	150.0000	159.8000	ug/L	7	10	
Potassium	0.2986	15000.00	14700.00	ug/L	-2	10	
Selenium	0.0205	150.0000	154.0000	ug/L	3	10	
Silver	1.2267	150.0000	147.6000	ug/L	-2	10	
Sodium	0.3709	15000.00	14880.00	ug/L	-1	10	
Thallium	0.3815	150.0000	152.4000	ug/L	2	10	
Vanadium	2.5375	150.0000	162.3000	ug/L	8	10	
Zinc	0.2342	150.0000	153.5000	ug/L	2	10	

ISTD (IB=12821003)	IB Abund	Abund	%Diff
Lithium	781810	715241	-8.51
Scandium	919779	822665	-10.56
Germanium	147655	131213	-11.14
Indium	1216559	1076875	-11.48
Bismuth	1018481	930490	-8.64
Terbium	1593033	1417778	-11.00

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523997003 Run Name: std-blk Injected: 28-DEC-2004 21:28
Filename: 12821003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523997028 Run Name:
Filename: l2821028 Run Type: CCB

Injected: 28-DEC-2004 23:49

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.0844]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	[0.3477]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.6289]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523997043 Run Name:
Filename: 12821043 Run Type: CCB

Injected: 29-DEC-2004 01:16

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.0722]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.7109]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523997052 Run Name:
Filename: 12821052 Run Type: CCB

Injected: 29-DEC-2004 02:09

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	[7.1540]	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.6817]	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523997013 Run Name:
Filename: 12821013 Run Type: ICSA

Injected: 28-DEC-2004 22:21

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.416000	0.250000	ug/L	<RL
Arsenic	[0.4207]	0.500000	ug/L	<RL
Barium	0.905000	0.250000	ug/L	<RL
Beryllium	[0.1215]	0.250000	ug/L	<RL
Cadmium	[0.0568]	0.250000	ug/L	<RL
Chromium	1.622000	0.500000	ug/L	<RL
Cobalt	2.604000	0.250000	ug/L	<RL
Copper	1.909000	0.500000	ug/L	<RL
Lead	1.419000	0.250000	ug/L	<RL
Manganese	1.031000	0.250000	ug/L	<RL
Nickel	2.585000	0.250000	ug/L	<RL
Selenium	0.823700	0.500000	ug/L	<RL
Silver	[0.1660]	0.250000	ug/L	<RL
Thallium	0.672800	0.500000	ug/L	<RL
Vanadium	[0.1905]	1.000000	ug/L	<RL
Zinc	3.710000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	100100	ug/L	100
Calcium	300000	307500	ug/L	103
Iron	250000	245000	ug/L	98
Magnesium	100000	103400	ug/L	103
Molybdenum	2000	2071	ug/L	104
Potassium	100000	102200	ug/L	102
Sodium	250000	245300	ug/L	98

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523997014

Run Name :
Filename : l2821014

Injected : 28-DEC-2004 22:27
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	96450.00	ug/L	-4		
Arsenic	100.0000	104.3000	ug/L	4	20	
Cadmium	100.0000	94.08000	ug/L	-6	20	
Calcium	300000.0	292200.0	ug/L	-3		
Chromium	200.0000	202.3000	ug/L	1	20	
Cobalt	200.0000	198.0000	ug/L	-1	20	
Copper	200.0000	191.5000	ug/L	-4	20	
Iron	250000.0	234400.0	ug/L	-6		
Magnesium	100000.0	100300.0	ug/L	0		
Manganese	200.0000	198.2000	ug/L	-1	20	
Molybdenum	2000.000	1968.000	ug/L	-2		
Nickel	200.0000	196.7000	ug/L	-2	20	
Potassium	100000.0	97620.00	ug/L	-2		
Selenium	100.0000	99.23000	ug/L	-1	20	
Silver	50.00000	44.70000	ug/L	-11	20	
Sodium	250000.0	235700.0	ug/L	-6		
Vanadium	200.0000	200.2000	ug/L	0	20	
Zinc	100.0000	100.8000	ug/L	1	20	

ISTD (IB=12821003)	IB Abund	Abund	%Diff
Lithium	781810	736705	-5.77
Scandium	919779	885396	-3.74
Germanium	147655	151697	2.74
Indium	1216559	1062716	-12.65
Bismuth	1018481	854752	-16.08
Terbium	1593033	1490996	-6.41

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523997048

Run Name :
Filename : 12821048

Injected : 29-DEC-2004 01:46
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	95780.00	ug/L	-4		
Arsenic	100.0000	102.6000	ug/L	3	20	
Cadmium	100.0000	95.75000	ug/L	-4	20	
Calcium	300000.0	290000.0	ug/L	-3		
Chromium	200.0000	207.6000	ug/L	4	20	
Cobalt	200.0000	201.6000	ug/L	1	20	
Copper	200.0000	190.0000	ug/L	-5	20	
Iron	250000.0	241000.0	ug/L	-4		
Magnesium	100000.0	98750.00	ug/L	-1		
Manganese	200.0000	202.6000	ug/L	1	20	
Molybdenum	2000.000	1993.000	ug/L	0		
Nickel	200.0000	198.5000	ug/L	-1	20	
Potassium	100000.0	95870.00	ug/L	-4		
Selenium	100.0000	95.49000	ug/L	-5	20	
Silver	50.00000	45.42000	ug/L	-9	20	
Sodium	250000.0	234800.0	ug/L	-6		
Vanadium	200.0000	206.3000	ug/L	3	20	
Zinc	100.0000	99.21000	ug/L	-1	20	

ISTD (IB=12821003)	IB Abund	Abund	%Diff
Lithium	781810	678758	-13.18
Scandium	919779	811017	-11.82
Germanium	147655	135561	-8.19
Indium	1216559	989303	-18.68
Bismuth	1018481	834805	-18.03
Terbium	1593033	1389557	-12.77

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54523997 Instrument: MET05 Agilent ICP-MS Begun: 28-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	l2821001	TUN				28-DEC-2004 21:17	1.0	1.0				1	
003	l2821003	IB	std-blk			28-DEC-2004 21:28	1.0	1.0				2	
004	l2821004	ICAL	ca1			28-DEC-2004 21:33	1.0					3 2	
005	l2821005	ICAL	cs2			28-DEC-2004 21:38	1.0					4 2	
006	l2821006	ICAL	cs3			28-DEC-2004 21:43	1.0					5 2	
007	l2821007	ICAL	cs4			28-DEC-2004 21:49	1.0					6 2	
008	l2821008	ICAL	cs5			28-DEC-2004 21:54	1.0					7 2	
009	l2821009	ICAL	cs6			28-DEC-2004 21:59	1.0					8 2	
010	l2821010	ICV				28-DEC-2004 22:04	1.0	1.0				9 2	
013	l2821013	ICSA				28-DEC-2004 22:21	1.0	1.0				10 2	7:CA=307500
014	l2821014	ICSAB				28-DEC-2004 22:27	1.0	1.0				11 2	9:CA=292200
016	l2821016	BLANK	QC277585	97810	Filtra	28-DEC-2004 22:39	1.0	1.0				2	
017	l2821017	BS	QC277586	97810	Filtra	28-DEC-2004 22:45	1.0	1.0				2	
018	l2821018	BSD	QC277587	97810	Filtra	28-DEC-2004 22:50	1.0	1.0				2	
020	l2821020	MSS	176731-004	97810	Filtra	28-DEC-2004 23:02	1.0	1.0	3			2	3:NA=50570.0
021	l2821021	SER	QC277590	97810	Filtra	28-DEC-2004 23:08	5.0	1.0				2	
022	l2821022	SER	QC277590	97810	Filtra	28-DEC-2004 23:14	25.0	1.0		1		2	
023	l2821023	MS	QC277588	97810	Filtra	28-DEC-2004 23:20	1.0	1.0	1			2	3:NA=60220.0
024	l2821024	MSD	QC277589	97810	Filtra	28-DEC-2004 23:25	1.0	1.0	1			2	3:NA=61180.0
026	l2821026	CCV				28-DEC-2004 23:37	1.0	1.0				12 2	
028	l2821028	CCB				28-DEC-2004 23:49	1.0	1.0				2	
029	l2821029	MS	QC277588	97810	Filtra	28-DEC-2004 23:55	5.0	1.0	1			2	
030	l2821030	MSD	QC277589	97810	Filtra	29-DEC-2004 00:00	5.0	1.0	1	1		2	
031	l2821031	X	rinse	97810		29-DEC-2004 00:06	1.0					2	
032	l2821032	SAMPLE	176731-001	97810	Filtra	29-DEC-2004 00:12	1.0	1.0				2	4:NA=99860.0
033	l2821033	SAMPLE	176731-002	97810	Filtra	29-DEC-2004 00:18	1.0	1.0				2	
034	l2821034	SAMPLE	176731-003	97810	Filtra	29-DEC-2004 00:24	1.0	1.0				2	4:NA=100100
035	l2821035	SAMPLE	176731-005	97810	Filtra	29-DEC-2004 00:30	1.0	1.0	1			2	4:MG=87160.0
036	l2821036	SAMPLE	176728-001	97810	Water	29-DEC-2004 00:36	1.0	1.0	6			2	5:NA=94870.0
037	l2821037	SAMPLE	176728-002	97810	Water	29-DEC-2004 00:42	1.0	1.0	6			2	5:MG=88850.0
038	l2821038	SAMPLE	176734-001	97810	Filtra	29-DEC-2004 00:47	1.0	1.0				2	3:CA=93290.0

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2319

Analyst: Mei Wu Date: 12/28/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54523997 Instrument: MET05 Agilent ICP-MS Begun: 28-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

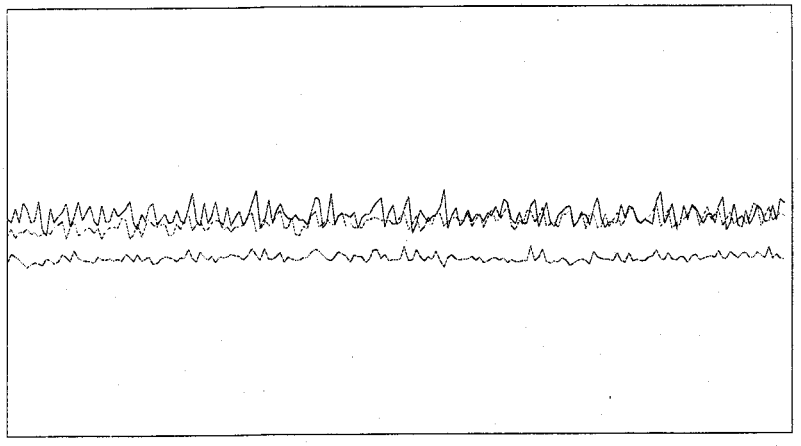
#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
039	12821039	SAMPLE	176734-002	97810	Filtra	29-DEC-2004 00:53	1.0	1.0		2	4:NA=187900
041	12821041	CCV				29-DEC-2004 01:05	1.0	1.0	1	12 2	
043	12821043	CCB				29-DEC-2004 01:16	1.0	1.0		2	
044	12821044	SAMPLE	176734-003	97810	Filtra	29-DEC-2004 01:22	1.0	1.0		2	
045	12821045	SAMPLE	176736-001	97810	Filtra	29-DEC-2004 01:28	1.0	1.0	1	2	4:MG=168000
046	12821046	SAMPLE	176736-002	97810	Filtra	29-DEC-2004 01:34	1.0	1.0	1	2	4:NA=303300
048	12821048	ICSAB				29-DEC-2004 01:46	1.0	1.0		11 2	11:CA=290000
050	12821050	CCV				29-DEC-2004 01:57	1.0	1.0		12 2	
052	12821052	CCB				29-DEC-2004 02:09	1.0	1.0		2	

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2319

Analyst: Mel Wu Date: 12/28/04

Tune Report

Tune File : ATUNE.U



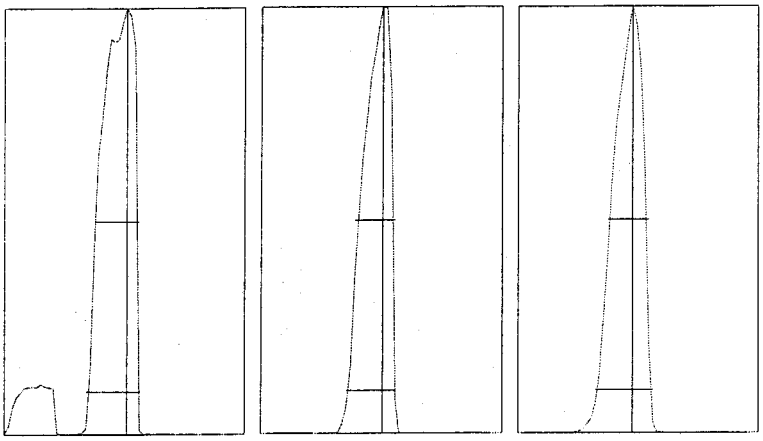
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	10,751	20,396	25,392
Mean:	10263.1	20668.3	24793.1
RSD%:	4.36	2.23	3.37
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.50%
Doubly Charged:	70/140	1.15%

Background:

m/z:	7	89	205
Cps:	76.2	37.3	35.1



m/z:	7	89	205
Height:	10,463	21,444	26,235
Axis:	7.05	89.05	204.95
W-50%:	0.55	0.50	0.50
W-10%:	0.6500	0.600	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1330 W	Extract 1:	-130 V	AMU Gain:	128
RF Matching:	1.68 V	Extract 2:	-46 V	AMU Offset:	130
Smpl Depth:	7.9 mm	Einzel 1,3:	-126 V	Axis Gain:	1.0003
Torch-H:	1.1 mm	Einzel 2:	16 V	Axis Offset:	-0.02
Torch-V:	0.1 mm	Omega Bias:	-68 V	QP Bias:	0 V
Carrier Gas:	1.03 L/min	Omega (+):	3 V		
Makeup Gas:	0 L/min	Omega (-):	2 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	2 V	Discriminator:	9.2 mV
PeriPump1:	0.1 rps	Plate Bias:	0 V	Analog HV:	1840 V
PeriPump2:	--- rps			Pulse HV:	1400 V
S/C Temp:	2 degC				

Generated : Dec 29, 2004 10:03:04
Printed : Dec 29, 2004 10:03:10

P/A Factor Tuning Report

Acquired:Dec 29 2004 10:20 am

Mass[amu]	Element	P/A Factor
6	Li	0.065264
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.076618
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.078538
45	Sc	0.077624
51	V	0.076658
52	Cr	0.075269
53	Cr	Sensitivity too low
54	Fe	0.075103
55	Mn	0.075250
57	Fe	0.074978
59	Co	0.073219
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.071922
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.067299
118	(In)	0.067557
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.066695
166	Er	Sensitivity too low

205	Tl	0.062223
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.062049
209	Bi	0.062400
232	Th	0.063186
238	U	0.063437

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 29 2004 10:26 am

Mass[amu]	Element	P/A Factor
6	Li	0.065671
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.077837
26	Mg	0.077258
27	Al	0.075687
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.076999
45	Sc	0.077081
51	V	0.076658
52	Cr	0.075269
53	Cr	Sensitivity too low
54	Fe	0.074455
55	Mn	0.075250
57	Fe	0.073503
59	Co	0.073219
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.071158
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.066724
118	(In)	0.067557
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.065811
166	Er	Sensitivity too low

205	Tl	0.062223
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.062049
209	Bi	0.061419
232	Th	0.063186
238	U	0.063437

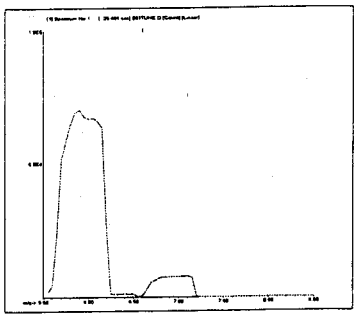
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

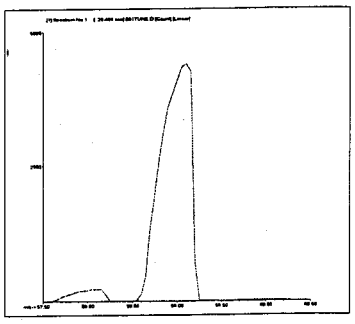
Data File: C:\ICPCHEM\1\DATA\04L2910a.B\001TUNE.D
Date Acquired: Dec 29 2004 10:47 am
Acq. Method: TN6020.M
Operator:
Sample Name: tun,04ws2314
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

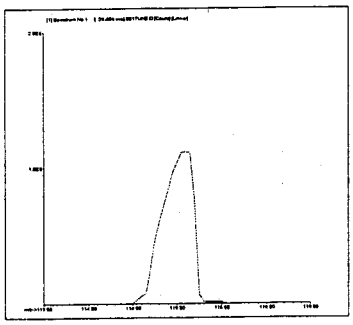
Element	Actual	Required	Flag
7 Li	0.35	5.00	
59 Co	2.41	5.00	
115 In	1.34	5.00	
205 Tl	0.56	5.00	



7 Li
Mass Calib.
Actual: 7.10
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.50
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.10
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

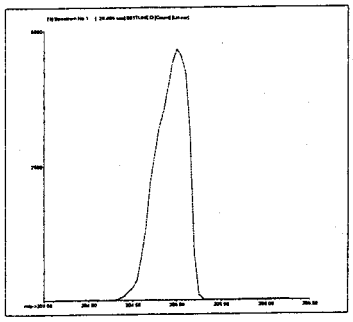
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.00

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2910a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 29 2004 10:52 am
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 28 2004 10:01 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.0006448	ppb	626.40	-0.000645	1.00	
23 Na	24.33	ppb	3.71	24.33	1.00	
26 Mg	-1.157	ppb	16.90	-1.157	1.00	
27 Al	-0.2936	ppb	13.06	-0.2936	1.00	
39 K	10.43	ppb	10.66	10.43	1.00	
44 Ca	2.716	ppb	33.49	2.716	1.00	
51 V	-0.01374	ppb	642.21	-0.01374	1.00	
52 Cr	0.03331	ppb	78.99	0.03331	1.00	
55 Mn	-0.01083	ppb	86.37	-0.01083	1.00	
57 Fe	6.088	ppb	16.94	6.088	1.00	
59 Co	-0.01771	ppb	16.97	-0.01771	1.00	
60 Ni	0.02607	ppb	171.54	0.02607	1.00	
65 Cu	0.02697	ppb	30.32	0.02697	1.00	
66 Zn	0.3169	ppb	2.61	0.3169	1.00	
75 As	-1.549	ppb	11.47	-1.549	1.00	
82 Se	-7.623	ppb	13.49	-7.623	1.00	
95 Mo	-0.06148	ppb	15.62	-0.06148	1.00	
109 Ag	0.01259	ppb	47.14	0.01259	1.00	
111 Cd	-0.008566	ppb	808.78	-0.008566	1.00	
121 Sb	-0.0389	ppb	14.72	-0.0389	1.00	
137 Ba	-0.02148	ppb	104.70	-0.02148	1.00	
205 Tl	0.5012	ppb	4.64	0.5012	1.00	
208 Pb	0.01989	ppb	55.46	0.01989	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	694104.56	1.64	---	#VALUE!	30 - 200	
45 Sc	784891.56	0.77	---	#VALUE!	30 - 200	
72 Ge	117522.00	1.09	---	#VALUE!	30 - 200	

115 In	1029266.30	0.92	---	#VALUE!	30 - 200
209 Bi	863341.75	0.38	---	#VALUE!	30 - 200

ISTD Ref File : ---

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2910a.B\003CAL
Date Acquired:	Dec 29 2004 10:58 am
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 28 2004 10:01 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	697082.19	A	4241.00	0.61
9	Be	75.56	P	11.71	15.50
23	Na	286445.50	P	4320.00	1.51
26	Mg	1053.33	P	92.80	8.81
27	Al	5183.33	P	178.50	3.44
39	K	734824.19	A	18790.00	2.56
44	Ca	2565.58	P	58.49	2.28
45	Sc	777886.31	A	2135.00	0.27
51	V	1925.57	P	185.60	9.64
52	Cr	2617.78	P	68.83	2.63
55	Mn	612.22	P	31.68	5.17
57	Fe	5512.22	P	78.13	1.42
59	Co	206.67	P	5.77	2.79
60	Ni	124.44	P	7.70	6.19
65	Cu	524.44	P	35.64	6.80
66	Zn	912.23	P	38.49	4.22
72	Ge	117146.90	P	1895.00	1.62
75	As	-1324.37	P	271.00	20.46
82	Se	1213.38	P	177.30	14.61
95	Mo	83.33	P	14.53	17.44
109	Ag	131.11	P	10.18	7.76
111	Cd	220.60	P	29.93	13.57
115	In	1031367.00	A	13800.00	1.34
121	Sb	168.89	P	30.06	17.80
137	Ba	127.78	P	34.05	26.65
205	Tl	3106.67	P	94.04	3.03
208	Pb	666.67	P	44.10	6.62
209	Bi	868222.63	A	11500.00	1.32
232	Th	828.89	P	82.21	9.92
238	U	161.11	P	9.62	5.97

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2910a.B\004CALI.D\004CALI.D#
Date Acquired: Dec 29 2004 11:03 am
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 29 2004 11:00 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	671390.19	A	9659.00	1.44
9 Be	365.56	P	22.19	6.07
23 Na	393515.50	P	2494.00	0.63
26 Mg	13715.55	P	349.80	2.55
27 Al	7006.67	P	86.67	1.24
39 K	891068.69	A	24040.00	2.70
44 Ca	5797.49	P	169.70	2.93
45 Sc	767356.31	A	6797.00	0.89
51 V	3921.88	P	278.30	7.10
52 Cr	4217.78	P	218.10	5.17
55 Mn	2093.33	P	68.07	3.25
57 Fe	8297.78	P	180.30	2.17
59 Co	1226.67	P	85.05	6.93
60 Ni	351.11	P	42.86	12.21
65 Cu	799.94	P	14.53	1.82
66 Zn	1070.07	P	31.80	2.97
72 Ge	116586.40	P	2550.00	2.19
75 As	-858.31	P	392.30	45.71
82 Se	1340.45	P	153.80	11.47
95 Mo	403.33	P	30.00	7.44
109 Ag	825.56	P	22.69	2.75
111 Cd	405.29	P	9.63	2.38
115 In	1001924.00	A	10500.00	1.05
121 Sb	918.89	P	25.02	2.72
137 Ba	352.22	P	38.63	10.97
205 Tl	4240.00	P	334.20	7.88
208 Pb	2524.44	P	93.23	3.69
209 Bi	853300.63	A	2694.00	0.32
232 Th	5817.78	P	303.30	5.21
238 U	2177.78	P	64.49	2.96

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	671390.25	1.44	697082.19	96.3	30 - 200	
45 Sc	767356.31	0.89	777886.25	98.6	30 - 200	
72 Ge	116586.45	2.19	117146.88	99.5	30 - 200	
115 In	1001923.80	1.05	1031367.10	97.1	30 - 200	
209 Bi	853300.63	0.32	868222.63	98.3	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2910a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2910a.B\005CALI.D\005CALI.D#
Date Acquired: Dec 29 2004 11:08 am
Operator:
Sample Name: cs2,04ws2311
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 29 2004 11:05 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	679522.19	A	6625.00	0.97
9	Be	612.22	P	56.80	9.28
23	Na	532594.38	P	5136.00	0.96
26	Mg	26391.11	P	598.60	2.27
27	Al	8132.22	P	115.60	1.42
39	K	998353.63	A	21820.00	2.19
44	Ca	9447.23	P	266.40	2.82
45	Sc	763528.13	A	5369.00	0.70
51	V	6065.25	P	298.50	4.92
52	Cr	5346.67	P	182.70	3.42
55	Mn	3598.89	P	109.90	3.05
57	Fe	11057.78	P	437.90	3.96
59	Co	2263.33	P	20.28	0.90
60	Ni	601.11	P	61.49	10.23
65	Cu	1110.99	P	52.74	4.75
66	Zn	2461.24	P	161.10	6.55
72	Ge	115225.80	P	1814.00	1.57
75	As	-1413.85	P	196.60	13.91
82	Se	1084.75	P	60.96	5.62
95	Mo	657.78	P	27.76	4.22
109	Ag	1523.33	P	83.73	5.50
111	Cd	562.39	P	51.77	9.21
115	In	991480.69	A	20320.00	2.05
121	Sb	1488.89	P	81.81	5.49
137	Ba	573.33	P	52.39	9.14
205	Tl	4654.44	P	298.80	6.42
208	Pb	4575.56	P	189.60	4.14
209	Bi	862157.38	A	8372.00	0.97
232	Th	6570.00	P	378.50	5.76
238	U	4251.11	P	78.48	1.85

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	679522.19	0.97	697082.19	97.5	30 - 200	
45 Sc	763528.13	0.70	777886.25	98.2	30 - 200	
72 Ge	115225.78	1.57	117146.88	98.4	30 - 200	
115 In	991480.69	2.05	1031367.10	96.1	30 - 200	
209 Bi	862157.44	0.97	868222.63	99.3	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2910a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2910a.B\006CALI.D\006CALI.D#
Date Acquired: Dec 29 2004 11:14 am
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 29 2004 11:10 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	669959.69	A	3962.00	0.59
9	Be	1212.22	P	28.35	2.34
23	Na	895743.88	A	6240.00	0.70
26	Mg	52324.44	P	301.70	0.58
27	Al	9631.11	P	152.70	1.59
39	K	1222161.00	A	3060.00	0.25
44	Ca	16070.42	P	394.60	2.46
45	Sc	758053.81	A	2878.00	0.38
51	V	7947.18	P	153.20	1.93
52	Cr	7422.22	P	214.80	2.89
55	Mn	6160.00	P	48.42	0.79
57	Fe	15995.55	P	361.40	2.26
59	Co	4450.00	P	91.35	2.05
60	Ni	1110.00	P	36.06	3.25
65	Cu	1449.77	P	110.10	7.59
66	Zn	2003.60	P	40.41	2.02
72	Ge	115134.90	P	1253.00	1.09
75	As	-728.40	P	531.30	72.94
82	Se	1236.56	P	132.70	10.73
95	Mo	1388.89	P	30.25	2.18
109	Ag	3026.67	P	180.40	5.96
111	Cd	825.41	P	29.74	3.60
115	In	1004078.00	A	12590.00	1.25
121	Sb	2860.00	P	210.00	7.34
137	Ba	985.56	P	44.39	4.50
205	Tl	6615.56	P	412.70	6.24
208	Pb	8423.33	P	214.00	2.54
209	Bi	863602.19	A	5345.00	0.62
232	Th	9015.55	P	204.20	2.27
238	U	8443.33	P	134.30	1.59

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	669959.69	0.59	697082.19	96.1	30 - 200	
45 Sc	758053.75	0.38	777886.25	97.5	30 - 200	
72 Ge	115134.88	1.09	117146.88	98.3	30 - 200	
115 In	1004077.70	1.25	1031367.10	97.4	30 - 200	
209 Bi	863602.19	0.62	868222.63	99.5	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2910a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2910a.B\007CALI.D\007CALI.D#
Date Acquired: Dec 29 2004 11:19 am
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 29 2004 11:15 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	685138.31	A	6784.00	0.99
9 Be	11048.89	P	299.60	2.71
23 Na	6208734.00	A	83690.00	1.35
26 Mg	508277.69	P	8920.00	1.75
27 Al	44860.00	P	710.80	1.58
39 K	5336783.00	A	53200.00	1.00
44 Ca	129674.40	P	2004.00	1.55
45 Sc	759916.63	A	931.40	0.12
51 V	54327.83	P	500.10	0.92
52 Cr	46265.55	P	1037.00	2.24
55 Mn	55323.33	P	1489.00	2.69
57 Fe	111225.60	P	2033.00	1.83
59 Co	42303.33	P	1046.00	2.47
60 Ni	9108.89	P	280.40	3.08
65 Cu	10479.99	P	470.50	4.49
66 Zn	6505.88	P	92.61	1.42
72 Ge	115770.40	P	1966.00	1.70
75 As	5132.63	P	434.70	8.47
82 Se	1753.67	P	223.20	12.73
95 Mo	12627.78	P	457.10	3.62
109 Ag	29722.22	P	820.30	2.76
111 Cd	6515.50	P	257.70	3.96
115 In	1011861.00	A	7012.00	0.69
121 Sb	26183.33	P	655.40	2.50
137 Ba	8796.67	P	262.90	2.99
205 Tl	47086.66	P	998.30	2.12
208 Pb	79631.11	P	2294.00	2.88
209 Bi	880407.69	A	6410.00	0.73
232 Th	60075.55	P	2139.00	3.56
238 U	86094.44	P	2393.00	2.78

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	685138.25	0.99	697082.19	98.3	30 - 200	
45 Sc	759916.63	0.12	777886.25	97.7	30 - 200	
72 Ge	115770.45	1.70	117146.88	98.8	30 - 200	
115 In	1011861.00	0.69	1031367.10	98.1	30 - 200	
209 Bi	880407.69	0.73	868222.63	101.4	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2910a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2910a.B\008CALI.D\008CALI.D#
Date Acquired: Dec 29 2004 11:24 am
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 29 2004 11:21 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	684344.69	A	7030.00	1.03
9	Be	108230.00	P	2029.00	1.87
23	Na	58399400.00	A	155500.00	0.27
26	Mg	5423325.00	A	52240.00	0.96
27	Al	395980.00	P	6991.00	1.77
39	K	45921220.00	A	635400.00	1.38
44	Ca	1406135.00	A	15640.00	1.11
45	Sc	770380.13	A	2332.00	0.30
51	V	534355.38	P	14070.00	2.63
52	Cr	445171.09	P	11780.00	2.65
55	Mn	573398.69	M	23420.00	4.08
57	Fe	1191118.00	A	13590.00	1.14
59	Co	425347.81	P	7150.00	1.68
60	Ni	91568.88	P	2864.00	3.13
65	Cu	99726.01	P	2569.00	2.58
66	Zn	56069.34	P	1885.00	3.36
72	Ge	120901.30	P	3731.00	3.09
75	As	59660.97	P	1105.00	1.85
82	Se	5378.34	P	68.92	1.28
95	Mo	130346.70	P	3819.00	2.93
109	Ag	299045.50	P	9090.00	3.04
111	Cd	65162.82	P	1894.00	2.91
115	In	1008482.00	A	10620.00	1.05
121	Sb	265248.91	P	6709.00	2.53
137	Ba	87014.44	P	2583.00	2.97
205	Tl	671496.81	A	12370.00	1.84
208	Pb	796806.63	P	25550.00	3.21
209	Bi	862076.19	A	9181.00	1.07
232	Th	753169.19	A	11860.00	1.57
238	U	1023728.00	A	5711.00	0.56

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	684344.69	1.03	697082.19	98.2	30 - 200	
45 Sc	770380.13	0.30	777886.25	99.0	30 - 200	
72 Ge	120901.34	3.09	117146.88	103.2	30 - 200	
115 In	1008482.10	1.05	1031367.10	97.8	30 - 200	
209 Bi	862076.19	1.07	868222.63	99.3	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2910a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2910a.B\009CALI.D\009CALI.D#
Date Acquired: Dec 29 2004 11:29 am
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 29 2004 11:26 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	660303.88	A	7956.00	1.20
9	Be	213566.70	P	3236.00	1.52
23	Na	114190200.00	A	1452000.00	1.27
26	Mg	10546490.00	A	61380.00	0.58
27	Al	841405.13	A	3063.00	0.36
39	K	88798520.00	A	920600.00	1.04
44	Ca	2703182.00	A	29750.00	1.10
45	Sc	752052.38	A	10460.00	1.39
51	V	1191798.00	A	393.20	0.03
52	Cr	937812.31	A	11600.00	1.24
55	Mn	1172770.00	A	5851.00	0.50
57	Fe	2248618.00	A	21300.00	0.95
59	Co	911147.19	A	7128.00	0.78
60	Ni	178940.00	P	5726.00	3.20
65	Cu	194528.70	P	4944.00	2.54
66	Zn	107129.40	P	2751.00	2.57
72	Ge	119771.30	P	3580.00	2.99
75	As	120292.80	P	3368.00	2.80
82	Se	9232.91	P	302.70	3.28
95	Mo	258351.09	P	7011.00	2.71
109	Ag	639451.63	A	8900.00	1.39
111	Cd	125924.10	P	4193.00	3.33
115	In	957896.69	A	6436.00	0.67
121	Sb	576201.63	A	7489.00	1.30
137	Ba	170647.80	P	3805.00	2.23
205	Tl	1200692.00	A	13800.00	1.15
208	Pb	1640326.00	A	27000.00	1.65
209	Bi	823309.88	A	2192.00	0.27
232	Th	1931253.00	A	26410.00	1.37
238	U	1964418.00	A	15490.00	0.79

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	660303.94	1.20	697082.19	94.7	30 - 200	
45 Sc	752052.44	1.39	777886.25	96.7	30 - 200	
72 Ge	119771.34	2.99	117146.88	102.2	30 - 200	
115 In	957896.75	0.67	1031367.10	92.9	30 - 200	
209 Bi	823309.94	0.27	868222.63	94.8	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2910a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass

ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 29, 2004 11:39
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412910a.b\003calb.d\	003calb.d#	Dec 29 2004 10:58 am
2	...hem\1\data\0412910a.b\004cali.d\	004cali.d#	Dec 29 2004 11:03 am
3	...hem\1\data\0412910a.b\005cali.d\	005cali.d#	Dec 29 2004 11:08 am
4	...hem\1\data\0412910a.b\006cali.d\	006cali.d#	Dec 29 2004 11:14 am
5	...hem\1\data\0412910a.b\007cali.d\	007cali.d#	Dec 29 2004 11:19 am
6	...hem\1\data\0412910a.b\008cali.d\	008cali.d#	Dec 29 2004 11:24 am
7	...hem\1\data\0412910a.b\009cali.d\	009cali.d#	Dec 29 2004 11:29 am
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 8.056E-2*X -8.553E-3	0.9999	ppb
Na	23	45	Y = 3.783E-1*X +1.974E+1	1.0000	ppb
Mg	25	45	Y = 3.116E-2*X -4.213E-1	1.0000	ppb
Mg	26	45	Y = 3.510E-2*X -2.532E-1	1.0000	ppb
Al	27	45	Y = 2.747E-1*X +8.912E-2	0.9991	ppb
K	39	45	Y = 2.927E-1*X +5.208E+1	1.0000	ppb
Ca	43	45	Y = 5.244E-4*X -2.043E-3	1.0000	ppb
Ca	44	45	Y = 9.004E-3*X +1.469E-1	1.0000	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.447E+0*X -2.148E+0	0.9985	ppb
Cr	52	72	Y = 1.935E+0*X -8.356E-2	0.9995	ppb
Cr	53	72	Y = 2.040E-1*X +2.347E+0	0.9994	ppb
Fe	54	72	Y = 1.181E-1*X +8.016E+0	0.9998	ppb
Mn	55	72	Y = 2.437E+0*X -4.495E-1	0.9999	ppb
Fe	57	72	Y = 4.717E-2*X +4.145E+0	0.9997	ppb
Co	59	72	Y = 1.881E+0*X -1.171E+0	0.9994	ppb
Ni	60	72	Y = 3.737E-1*X +1.335E-1	1.0000	ppb
Cu	63	72	Y = 8.563E-1*X +1.335E+0	0.9999	ppb
Cu	65	72	Y = 4.053E-1*X +3.447E-1	1.0000	ppb
Zn	66	72	Y = 2.211E-1*X +6.974E-1	0.9999	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.537E-1*X -5.663E-1	1.0000	ppb
(As)	77	72	Y = 1.206E-2*X +3.960E-1	0.9950	ppb
Se	82	72	Y = 1.673E-2*X +5.257E-1	0.9995	ppb
(As)	83	72	Y = -5.318E-4*X +7.727E+0	-0.2238	ppb
(Ca)	88	72	Y = 8.489E-3*X +8.294E-2	0.9993	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 5.390E-1*X +3.999E-2	1.0000	ppb
Mo	98	72	Y = 8.631E-1*X +3.955E-2	1.0000	ppb
(Mo)	99	72	Y = -3.486E-5*X +2.111E-2	-0.9193	ppb
(Cd)	106	72	Y = 2.351E-2*X +1.374E-1	0.9997	ppb
(Cd)	108	72	Y = 1.731E-2*X +2.784E-2	0.9999	ppb
Ag	109	72	Y = 1.321E+0*X -8.207E-1	0.9994	ppb
Cd	111	72	Y = 2.632E-1*X +1.650E-1	0.9999	ppb
Cd	114	72	Y = 6.139E-1*X +1.895E-1	0.9999	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.477E-1*X -1.782E-1	0.9983	ppb
Ba	135	115	Y = 2.548E-2*X -1.762E-3	0.9999	ppb
Ba	137	115	Y = 4.430E-2*X -7.701E-3	0.9999	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.689E-1*X +7.712E-2	0.9994	ppb
(Pb)	206	209	Y = 1.147E-1*X -1.616E-2	1.0000	ppb
(Pb)	207	209	Y = 1.023E-1*X -1.548E-2	1.0000	ppb
Pb	208	209	Y = 4.929E-1*X -3.405E-1	0.9994	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 5.681E-1*X -1.941E+0	0.9924	ppb
U	238	209	Y = 5.973E-1*X -2.533E-1	1.0000	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54524807010
Run Name :
Filename : 12910010
Injected : 29-DEC-2004 11:34
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	100.0000	96.43000	ug/L	-4	10
Antimony	100.0000	94.73000	ug/L	-5	10
Arsenic	100.0000	100.3000	ug/L	0	10
Barium	100.0000	100.6000	ug/L	1	10
Beryllium	100.0000	99.14000	ug/L	-1	10
Cadmium	100.0000	102.9000	ug/L	3	10
Calcium	10000.00	10430.00	ug/L	4	10
Chromium	100.0000	95.99000	ug/L	-4	10
Cobalt	100.0000	94.16000	ug/L	-6	10
Copper	100.0000	102.4000	ug/L	2	10
Iron	10000.00	10350.00	ug/L	4	10
Lead	100.0000	96.52000	ug/L	-3	10
Magnesium	10000.00	10260.00	ug/L	3	10
Manganese	100.0000	101.0000	ug/L	1	10
Molybdenum	100.0000	101.9000	ug/L	2	10
Nickel	100.0000	102.3000	ug/L	2	10
Potassium	10000.00	10320.00	ug/L	3	10
Selenium	100.0000	98.56000	ug/L	-1	10
Silver	100.0000	95.20000	ug/L	-5	10
Sodium	10000.00	10210.00	ug/L	2	10
Thallium	100.0000	103.5000	ug/L	4	10
Vanadium	100.0000	92.44000	ug/L	-8	10
Zinc	100.0000	104.1000	ug/L	4	10

ISTD (IB=12910003)	IB Abund	Abund	%Diff
Lithium	697082	675028	-3.16
Scandium	777886	751870	-3.34
Germanium	117147	119928	2.37
Indium	1031367	983627	-4.63
Bismuth	868223	847266	-2.41
Terbium	1324739	1296225	-2.15

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54524807031

Run Name :
Filename : 12910031

IDF : 1.0
Injected : 29-DEC-2004 13:37
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2588	100.0000	93.51000	ug/L	-6	10	
Antimony	0.1364	100.0000	93.01000	ug/L	-7	10	
Arsenic	0.2433	100.0000	98.15000	ug/L	-2	10	
Barium	0.0433	100.0000	97.80000	ug/L	-2	10	
Beryllium	0.0758	100.0000	94.07000	ug/L	-6	10	
Cadmium	0.2779	100.0000	105.1000	ug/L	5	10	
Calcium	0.0091	10000.00	10100.00	ug/L	1	10	
Chromium	1.9156	100.0000	98.77000	ug/L	-1	10	
Cobalt	1.8402	100.0000	98.17000	ug/L	-2	10	
Copper	0.4241	100.0000	103.9000	ug/L	4	10	
Iron	0.0518	10000.00	10920.00	ug/L	9	10	
Lead	0.4553	100.0000	92.74000	ug/L	-7	10	
Magnesium	0.0352	10000.00	10020.00	ug/L	0	10	
Manganese	2.4926	100.0000	102.4000	ug/L	2	10	
Molybdenum	0.5409	100.0000	100.3000	ug/L	0	10	
Nickel	0.3973	100.0000	106.0000	ug/L	6	10	
Potassium	0.2945	10000.00	9892.000	ug/L	-1	10	
Selenium	0.0211	100.0000	94.60000	ug/L	-5	10	
Silver	1.2661	100.0000	96.23000	ug/L	-4	10	
Sodium	0.3776	10000.00	9931.000	ug/L	-1	10	
Thallium	0.3777	100.0000	102.1000	ug/L	2	10	
Vanadium	2.3030	100.0000	94.51000	ug/L	-5	10	
Zinc	0.2380	100.0000	105.0000	ug/L	5	10	

ISTD (IB=12910003)	IB Abund	Abund	%Diff
Lithium	697082	686502	-1.52
Scandium	777886	745166	-4.21
Germanium	117147	112301	-4.14
Indium	1031367	980294	-4.95
Bismuth	868223	862931	-0.61
Terbium	1324739	1276709	-3.63

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54524807003 Run Name: std-blk Injected: 29-DEC-2004 10:58
Filename: 12910003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54524807014 Run Name:
Filename: 12910014 Run Type: ICB

Injected: 29-DEC-2004 11:58

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54524807033 Run Name:
Filename: 12910033 Run Type: CCB

Injected: 29-DEC-2004 13:49

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.0716]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54524807015 Run Name:
Filename: l2910015 Run Type: ICSA

Injected: 29-DEC-2004 12:03

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.385000	0.250000	ug/L	<RL
Arsenic	[0.0316]	0.500000	ug/L	<RL
Barium	0.939400	0.250000	ug/L	<RL
Beryllium	[0.1092]	0.250000	ug/L	<RL
Cadmium	[0.2289]	0.250000	ug/L	<RL
Chromium	1.691000	0.500000	ug/L	<RL
Cobalt	2.642000	0.250000	ug/L	<RL
Copper	1.915000	0.500000	ug/L	<RL
Lead	1.466000	0.250000	ug/L	<RL
Manganese	1.106000	0.250000	ug/L	<RL
Nickel	2.555000	0.250000	ug/L	<RL
Selenium	[0.0000]	0.500000	ug/L	<RL
Silver	[0.1479]	0.250000	ug/L	<RL
Thallium	[0.2470]	0.500000	ug/L	<RL
Vanadium	[0.2315]	1.000000	ug/L	<RL
Zinc	3.876000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	98340	ug/L	98
Calcium	300000	305500	ug/L	102
Iron	250000	245400	ug/L	98
Magnesium	100000	101400	ug/L	101
Molybdenum	2000	2092	ug/L	105
Potassium	100000	100900	ug/L	101
Sodium	250000	241900	ug/L	97

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54524807016

Run Name :
Filename : 12910016

Injected : 29-DEC-2004 12:09
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	94740.00	ug/L	-5		
Arsenic	100.0000	102.6000	ug/L	3	20	
Cadmium	100.0000	94.31000	ug/L	-6	20	
Calcium	300000.0	292400.0	ug/L	-3		
Chromium	200.0000	201.3000	ug/L	1	20	
Cobalt	200.0000	197.1000	ug/L	-1	20	
Copper	200.0000	189.8000	ug/L	-5	20	
Iron	250000.0	234300.0	ug/L	-6		
Magnesium	100000.0	97900.00	ug/L	-2		
Manganese	200.0000	201.0000	ug/L	1	20	
Molybdenum	2000.000	1955.000	ug/L	-2		
Nickel	200.0000	195.9000	ug/L	-2	20	
Potassium	100000.0	96880.00	ug/L	-3		
Selenium	100.0000	100.4000	ug/L	0	20	
Silver	50.00000	43.50000	ug/L	-13	20	
Sodium	250000.0	233000.0	ug/L	-7		
Vanadium	200.0000	203.3000	ug/L	2	20	
Zinc	100.0000	99.71000	ug/L	0	20	

ISTD (IB=12910003)	IB Abund	Abund	%Diff
Lithium	697082	657086	-5.74
Scandium	777886	775130	-0.35
Germanium	117147	126156	7.69
Indium	1031367	930830	-9.75
Bismuth	868223	760670	-12.39
Terbium	1324739	1267468	-4.32

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54524807035
Run Name :
Filename : 12910035
Injected : 29-DEC-2004 14:00
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D Flags
Aluminum	100000.0	93380.00	ug/L	-7	
Arsenic	100.0000	101.8000	ug/L	2	20
Cadmium	100.0000	93.23000	ug/L	-7	20
Calcium	300000.0	288700.0	ug/L	-4	
Chromium	200.0000	200.4000	ug/L	0	20
Cobalt	200.0000	194.5000	ug/L	-3	20
Copper	200.0000	186.0000	ug/L	-7	20
Iron	250000.0	234300.0	ug/L	-6	
Magnesium	100000.0	96530.00	ug/L	-3	
Manganese	200.0000	199.0000	ug/L	-1	20
Molybdenum	2000.000	1970.000	ug/L	-2	
Nickel	200.0000	191.5000	ug/L	-4	20
Potassium	100000.0	95590.00	ug/L	-4	
Selenium	100.0000	93.74000	ug/L	-6	20
Silver	50.00000	42.93000	ug/L	-14	20
Sodium	250000.0	230600.0	ug/L	-8	
Vanadium	200.0000	204.4000	ug/L	2	20
Zinc	100.0000	98.94000	ug/L	-1	20

ISTD (IB=12910003)	IB Abund	Abund	%Diff
Lithium	697082	643939	-7.62
Scandium	777886	761428	-2.12
Germanium	117147	122090	4.22
Indium	1031367	914671	-11.31
Bismuth	868223	764178	-11.98
Terbium	1324739	1260681	-4.84

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54524807 Instrument: MET05 Agilent ICP-MS Begun: 29-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	12910001	TUN				29-DEC-2004 10:47	1.0	1.0		1	
003	12910003	IB	std-blk			29-DEC-2004 10:58	1.0	1.0		2	
004	12910004	ICAL	ca1			29-DEC-2004 11:03	1.0			3 2	
005	12910005	ICAL	cs2			29-DEC-2004 11:08	1.0			4 2	
006	12910006	ICAL	cs3			29-DEC-2004 11:14	1.0			5 2	
007	12910007	ICAL	cs4			29-DEC-2004 11:19	1.0			6 2	
008	12910008	ICAL	cs5			29-DEC-2004 11:24	1.0			7 2	
009	12910009	ICAL	cs6			29-DEC-2004 11:29	1.0			8 2	
010	12910010	ICV				29-DEC-2004 11:34	1.0	1.0		9 2	
014	12910014	ICB				29-DEC-2004 11:58	1.0	1.0		2	
015	12910015	ICSA				29-DEC-2004 12:03	1.0	1.0		10 2	7:CA=305500
016	12910016	ICSAB				29-DEC-2004 12:09	1.0	1.0		11 2	10:CA=292400
018	12910018	SAMPLE	176616-002	97496	Water	29-DEC-2004 12:21	1.0	1.0		2	1:CA=20080.0
019	12910019	SAMPLE	176731-005	97810	Filtra	29-DEC-2004 12:27	1.0	1.0		2	4:MG=87630.0
020	12910020	SAMPLE	176728-001	97810	Water	29-DEC-2004 12:33	10.0	1.0	1	2	1:AL=805.700
021	12910021	SAMPLE	176728-002	97810	Water	29-DEC-2004 12:38	10.0	1.0	1	2	1:AL=853.600
022	12910022	SAMPLE	176736-001	97810	Filtra	29-DEC-2004 12:44	5.0	1.0		2	2:NA=218800
023	12910023	SAMPLE	176736-002	97810	Filtra	29-DEC-2004 12:50	10.0	1.0	1	2	2:NA=32910.0
024	12910024	SAMPLE	176728-001	97810	Water	29-DEC-2004 12:56	50.0	1.0		2	
026	12910026	X				29-DEC-2004 13:08	1.0	1.0		2	
029	12910029	SAMPLE	176728-002	97810	Water	29-DEC-2004 13:25	50.0	1.0		2	
031	12910031	CCV				29-DEC-2004 13:37	1.0	1.0		12 2	
033	12910033	CCB				29-DEC-2004 13:49	1.0	1.0		2	
035	12910035	ICSAB				29-DEC-2004 14:00	1.0	1.0		11 2	9:CA=288700

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318

Analyst: Mei Wu Date: 12/29/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL	V	ZN
176728-001	MET05	12/29/04 00:36	1.0		+	+	+	+	+			+	+	+	+			+	+	+	+		+	+	+
176728-001	MET05	12/29/04 12:33	10.0							+	+					+	+					+			
176728-001	MET05	12/29/04 12:56	50.0	+																					
176728-002	MET05	12/29/04 00:42	1.0		+	+	+	+	+			+	+	+	+			+	+	+	+		+	+	+
176728-002	MET05	12/29/04 12:38	10.0							+	+					+	+					+			
176728-002	MET05	12/29/04 13:25	50.0	+																					
QC277585	MET05	12/28/04 19:04	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277585	MET05	12/28/04 22:39	1.0		+																				
QC277586	MET05	12/28/04 19:10	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277586	MET05	12/28/04 22:45	1.0		+																				
QC277587	MET05	12/28/04 19:15	1.0	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC277587	MET05	12/28/04 22:50	1.0		+																				
QC277588	MET05	12/28/04 19:39	1.0	+		+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
QC277588	MET05	12/28/04 23:20	1.0		+											+						+			
QC277588	MET05	12/28/04 23:55	5.0							+															
QC277589	MET05	12/28/04 19:45	1.0	+		+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
QC277589	MET05	12/28/04 23:25	1.0		+											+						+			
QC277589	MET05	12/29/04 00:00	5.0							+															
QC277590	MET05	12/28/04 19:33	5.0	+			+	+	+		+	+	+	+	+		+	+	+		+		+	+	+
QC277590	MET05	12/28/04 19:58	5.0			+														+					
QC277590	MET05	12/28/04 23:08	5.0		+																				
QC277590	MET05	12/28/04 23:14	25.0							+						+						+			

Curtis & Tompkins Laboratories **Sample Preparation Summary** **27-DEC-2004 10:17**

Batch Number : 97810
Date Extracted: 27-DEC-2004
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 04SS226
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176728-001			Treadwell & Rollo	Water	50	ml	50	1.000000	1				TAL/ICP		
176728-002			Treadwell & Rollo	Water	50	ml	50	1.000000	1				TAL/ICP		
176731-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176731-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176731-003			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176731-004			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176731-005			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176734-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176734-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176734-003			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				HARDNESS, MO(more)		
176736-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
176736-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1				AS, CD, CR, (more)		
QC277585	BLANK			Filtrate	50	ml	50	1.000000	1				ICAP		
QC277586	BS			Filtrate	50	ml	50	1.000000	1	.5			ICAP		
QC277587	BSD			Filtrate	50	ml	50	1.000000	1	.5			ICAP		
QC277588	MS	of 176731-004		Filtrate	50	ml	50	1.000000	1	.5			ICAP		
QC277589	MSD	of 176731-004		Filtrate	50	ml	50	1.000000	1	.5			ICAP		
QC277590	SER	of 176731-004		Filtrate	50	ml	50	1.000000	1				ICAP		

229

Prep Chemist: [signature] 12/27/04 Reviewed By: K Carlyon Date: 12/28/04

Relinquished By: [signature] 12/27/04 Received By: K Carlyon Date: 12/28/04

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: 97810
Date Digested: 12/27/04
Digested by: [illegible]

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2036
Page 34

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
B5				
B5D				
M3-04				FIELD FILTERED
M3D-04				
- 17673-04				
- 01 H				
- 02 E				
- 03 H				
- 05				
- 728-01 E				
- 02				
- 734-01 H				FIELD FIELD FILTERED
- 02 G				
- 03 P				
- 736-01 F				FILTRATE
- 02 M				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	KEA 12/27
.5 mL of spike solution was added to all spikes	045322C	
	N/A	
concentrated HCl	A27045 BAKER	
concentrated HNO3	A33044 BAKER	
☐ filtered thru' Whatman # 541	N/A	

[illegible] 12/27/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

[illegible]
Reviewed by / Date

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8

Analyte	Units	MET05	
Aluminum	ug/L	03/29/04	0.57
Antimony	ug/L	03/29/04	0.066
Arsenic	ug/L	03/29/04	0.79
Barium	ug/L	03/29/04	0.17
Beryllium	ug/L	03/29/04	0.14
Cadmium	ug/L	03/29/04	0.20
Calcium	ug/L	03/29/04	17
Chromium	ug/L	03/29/04	0.044
Cobalt	ug/L	03/29/04	0.069
Copper	ug/L	06/21/04	0.28
Iron	ug/L	03/29/04	7.0
Lead	ug/L	03/29/04	0.048
Magnesium	ug/L	03/29/04	6.6
Manganese	ug/L	03/29/04	0.060
Molybdenum	ug/L	03/29/04	0.19
Nickel	ug/L	03/29/04	0.13
Potassium	ug/L	03/29/04	9.9
Selenium	ug/L	03/29/04	0.58
Silver	ug/L	03/29/04	0.16
Sodium	ug/L	03/29/04	18
Thallium	ug/L	03/29/04	0.17
Thorium	ug/L	04/14/03	0.15
Uranium	ug/L	04/14/03	0.041
Vanadium	ug/L	03/29/04	0.42
Zinc	ug/L	03/31/04	0.16

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3PZ101	Batch#:	97646
Lab ID:	176728-001	Sampled:	12/16/04
Matrix:	Filtrate	Received:	12/17/04
Units:	ug/L	Prepared:	12/20/04

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	1,200	1,000	10.00	12/28/04
Antimony	ND	1.0	1.000	12/27/04
Arsenic	ND	5.0	1.000	12/27/04
Barium	140	10	1.000	12/27/04
Beryllium	ND	2.0	1.000	12/28/04
Cadmium	ND	1.0	1.000	12/27/04
Calcium	30,000	5,000	10.00	12/28/04
Chromium	ND	10	1.000	12/27/04
Cobalt	ND	10	1.000	12/27/04
Copper	11	1.0	1.000	12/27/04
Iron	3,500	100	1.000	12/27/04
Lead	6.7	3.0	1.000	12/27/04
Magnesium	96,000	5,000	10.00	12/28/04
Manganese	330	100	10.00	12/28/04
Nickel	28	20	1.000	12/27/04
Potassium	1,700	500	1.000	12/27/04
Selenium	ND	5.0	1.000	12/27/04
Silver	ND	1.0	1.000	12/27/04
Sodium	100,000	5,000	10.00	12/28/04
Thallium	ND	1.0	1.000	12/27/04
Vanadium	15	10	1.000	12/27/04
Zinc	ND	20	1.000	12/27/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Batch#:	97646
Lab ID:	176728-002	Sampled:	12/17/04
Matrix:	Filtrate	Received:	12/17/04
Units:	ug/L	Prepared:	12/20/04

Analyte	Result	RL	Diln Fac	Analyzed
Aluminum	3,500	2,000	20.00	12/28/04
Antimony	ND	1.0	1.000	12/27/04
Arsenic	ND	5.0	1.000	12/27/04
Barium	130	10	1.000	12/27/04
Beryllium	ND	2.0	1.000	12/28/04
Cadmium	ND	1.0	1.000	12/27/04
Calcium	22,000	10,000	20.00	12/28/04
Chromium	52	10	1.000	12/27/04
Cobalt	21	10	1.000	12/27/04
Copper	19	1.0	1.000	12/27/04
Iron	5,200	100	1.000	12/27/04
Lead	16	3.0	1.000	12/27/04
Magnesium	94,000	10,000	20.00	12/28/04
Manganese	670	200	20.00	12/28/04
Nickel	76	20	1.000	12/27/04
Potassium	1,200	500	1.000	12/27/04
Selenium	ND	5.0	1.000	12/27/04
Silver	ND	1.0	1.000	12/27/04
Sodium	63,000	10,000	20.00	12/28/04
Thallium	ND	1.0	1.000	12/27/04
Vanadium	31	10	1.000	12/27/04
Zinc	35	20	1.000	12/27/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC276941	Batch#:	97646
Matrix:	Filtrate	Prepared:	12/20/04
Units:	ug/L		

Analyte	Result	RL	Analyzed
Aluminum	ND	100	12/27/04
Antimony	ND	1.0	12/27/04
Arsenic	ND	5.0	12/27/04
Barium	ND	10	12/27/04
Beryllium	ND	2.0	12/27/04
Cadmium	ND	1.0	12/27/04
Calcium	ND	500	12/27/04
Chromium	ND	10	12/27/04
Cobalt	ND	10	12/27/04
Copper	ND	1.0	12/27/04
Iron	ND	100	12/27/04
Lead	ND	3.0	12/27/04
Magnesium	ND	500	12/27/04
Manganese	ND	10	12/27/04
Nickel	ND	20	12/27/04
Potassium	ND	500	12/27/04
Selenium	ND	5.0	12/27/04
Silver	ND	1.0	12/27/04
Sodium	ND	500	12/28/04
Thallium	ND	1.0	12/27/04
Vanadium	ND	10	12/27/04
Zinc	ND	20	12/27/04

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	97646
Units:	ug/L	Prepared:	12/20/04
Diln Fac:	1.000		

Type: BS Lab ID: QC276942

Analyte	Spiked	Result	%REC	Limits	Analyzed
Aluminum	100.0	108.3	108	80-120	12/27/04
Antimony	100.0	103.7	104	80-120	12/27/04
Arsenic	100.0	100.2	100	80-120	12/27/04
Barium	100.0	105.0	105	80-120	12/27/04
Beryllium	100.0	94.45	94	80-120	12/27/04
Cadmium	100.0	101.9	102	80-120	12/27/04
Calcium	10,000	10,200	102	80-120	12/27/04
Chromium	100.0	104.6	105	80-120	12/27/04
Cobalt	100.0	103.2	103	80-120	12/27/04
Copper	100.0	104.3	104	80-120	12/27/04
Iron	10,000	10,610	106	80-120	12/27/04
Lead	100.0	100.1	100	80-120	12/27/04
Magnesium	10,000	10,590	106	80-120	12/27/04
Manganese	100.0	104.2	104	80-120	12/27/04
Nickel	100.0	105.2	105	80-120	12/27/04
Potassium	10,000	10,030	100	80-120	12/27/04
Selenium	100.0	95.69	96	80-120	12/27/04
Silver	100.0	100.9	101	80-120	12/27/04
Sodium	10,000	10,070	101	80-120	12/28/04
Thallium	100.0	87.08	87	80-120	12/27/04
Vanadium	100.0	102.1	102	80-120	12/27/04
Zinc	100.0	100.7	101	80-120	12/27/04

Type: BSD Lab ID: QC276943

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aluminum	100.0	109.9	110	80-120	1	20	12/27/04
Antimony	100.0	100.9	101	80-120	3	20	12/27/04
Arsenic	100.0	98.36	98	80-120	2	20	12/27/04
Barium	100.0	102.5	103	80-120	2	20	12/27/04
Beryllium	100.0	92.27	92	80-120	2	20	12/27/04
Cadmium	100.0	101.1	101	80-120	1	20	12/27/04
Calcium	10,000	10,220	102	80-120	0	20	12/27/04
Chromium	100.0	105.0	105	80-120	0	20	12/27/04
Cobalt	100.0	104.7	105	80-120	1	20	12/27/04
Copper	100.0	105.3	105	80-120	1	20	12/27/04
Iron	10,000	10,590	106	80-120	0	20	12/27/04
Lead	100.0	99.89	100	80-120	0	20	12/27/04
Magnesium	10,000	10,660	107	80-120	1	20	12/27/04
Manganese	100.0	103.6	104	80-120	1	20	12/27/04
Nickel	100.0	106.3	106	80-120	1	20	12/27/04
Potassium	10,000	9,920	99	80-120	1	20	12/27/04
Selenium	100.0	94.65	95	80-120	1	20	12/27/04
Silver	100.0	100.7	101	80-120	0	20	12/27/04
Sodium	10,000	9,904	99	80-120	2	20	12/28/04
Thallium	100.0	90.01	90	80-120	3	20	12/27/04
Vanadium	100.0	102.1	102	80-120	0	20	12/27/04
Zinc	100.0	99.81	100	80-120	1	20	12/27/04

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW102	Batch#:	97646
MSS Lab ID:	176726-004	Sampled:	12/16/04
Matrix:	Filtrate	Received:	12/17/04
Units:	ug/L	Prepared:	12/20/04

Type: MS Lab ID: QC276944

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac	Analyzed
Aluminum	6.506	100.0	116.2	110	75-125	1.000	12/27/04
Antimony	0.1116	100.0	107.5	107	75-125	1.000	12/27/04
Arsenic	2.130	100.0	102.9	101	75-125	1.000	12/27/04
Barium	74.38	100.0	188.2	114	75-125	1.000	12/27/04
Beryllium	<0.1400	100.0	94.69	95	75-125	1.000	12/27/04
Cadmium	<0.2000	100.0	96.55	97	75-125	1.000	12/27/04
Calcium	73,810	10,000	78,680 >LR	49 NM	75-125	1.000	12/27/04
Chromium	0.7532	100.0	103.4	103	75-125	1.000	12/27/04
Cobalt	0.9213	100.0	98.48	98	75-125	1.000	12/27/04
Copper	0.6437	100.0	100.9	100	75-125	1.000	12/27/04
Iron	211.3	10,000	10,290	101	75-125	1.000	12/27/04
Lead	<0.04800	100.0	105.9	106	75-125	1.000	12/27/04
Magnesium	155,900	10,000	156,100 >LR	2 NM	75-125	1.000	12/27/04
Manganese	411.0	100.0	474.3 >LR	63 NM	75-125	1.000	12/27/04
Nickel	6.037	100.0	104.7	99	75-125	1.000	12/27/04
Potassium	3,656	10,000	13,500	98	75-125	1.000	12/27/04
Selenium	3.042	100.0	103.5	100	75-125	1.000	12/27/04
Silver	<0.1600	100.0	94.98	95	75-125	1.000	12/27/04
Sodium	175,100	10,000	170,500	-46 NM	75-125	10.00	12/28/04
Thallium	0.7285	100.0	82.57	82	75-125	1.000	12/27/04
Vanadium	1.656	100.0	102.4	101	75-125	1.000	12/27/04
Zinc	3.868	100.0	100.2	96	75-125	10.00	12/28/04

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW102	Batch#:	97646
MSS Lab ID:	176726-004	Sampled:	12/16/04
Matrix:	Filtrate	Received:	12/17/04
Units:	ug/L	Prepared:	12/20/04

Type: MSD Lab ID: QC276945

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Analyzed
Aluminum	100.0	108.0	101	75-125	7	20	1.000	12/27/04
Antimony	100.0	104.0	104	75-125	3	20	1.000	12/27/04
Arsenic	100.0	99.08	97	75-125	4	20	1.000	12/27/04
Barium	100.0	183.4	109	75-125	3	20	1.000	12/27/04
Beryllium	100.0	90.71	91	75-125	4	20	1.000	12/27/04
Cadmium	100.0	93.71	94	75-125	3	20	1.000	12/27/04
Calcium	10,000	75,980 >LR	22 NM	75-125	NC	20	1.000	12/27/04
Chromium	100.0	100.4	100	75-125	3	20	1.000	12/27/04
Cobalt	100.0	96.92	96	75-125	2	20	1.000	12/27/04
Copper	100.0	95.09	94	75-125	6	20	1.000	12/27/04
Iron	10,000	10,010	98	75-125	3	20	1.000	12/27/04
Lead	100.0	103.0	103	75-125	3	20	1.000	12/27/04
Magnesium	10,000	149,800 >LR	-61 NM	75-125	NC	20	1.000	12/27/04
Manganese	100.0	461.9 >LR	51 NM	75-125	NC	20	1.000	12/27/04
Nickel	100.0	102.3	96	75-125	2	20	1.000	12/27/04
Potassium	10,000	12,920	93	75-125	4	20	1.000	12/27/04
Selenium	100.0	96.95	94	75-125	7	20	1.000	12/27/04
Silver	100.0	92.33	92	75-125	3	20	1.000	12/27/04
Sodium	10,000	176,300	12 NM	75-125	3	20	10.00	12/28/04
Thallium	100.0	83.39	83	75-125	1	20	1.000	12/27/04
Vanadium	100.0	99.78	98	75-125	3	20	1.000	12/27/04
Zinc	100.0	107.3	103	75-125	7	20	10.00	12/28/04

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	1349MW102	Units:	ug/L
Type:	Serial Dilution	Batch#:	97646
MSS Lab ID:	176726-004	Sampled:	12/16/04
Lab ID:	QC276946	Received:	12/17/04
Matrix:	Filtrate	Analyzed:	12/27/04

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	8.9 J	250		10	5.000
Antimony	ND	1.000	ND	5.0		10	5.000
Arsenic	ND	5.000	ND	5.0		10	5.000
Barium	74.38	10.00	70	5.0	6	10	5.000
Beryllium	ND	2.000	ND	5.0		10	5.000
Cadmium	ND	1.000	ND	5.0		10	5.000
Calcium	73,810	5,000	73,000	2,500	1	10	50.00
Chromium	ND	10.00	1.5 J	5.0		10	5.000
Cobalt	ND	10.00	0.96 J	5.0		10	5.000
Copper	ND	1.000	ND	5.0		10	5.000
Iron	211.3	100.0	250 J	250		10	5.000
Lead	ND	3.000	ND	5.0		10	5.000
Magnesium	155,900	5,000	170,000	2,500	6	10	50.00
Manganese	411.0	100.0	410	50	0	10	50.00
Nickel	ND	20.00	5.8	5.0		10	5.000
Potassium	3,656	500.0	3,700	250	0	10	5.000
Selenium	ND	5.000	ND	5.0		10	5.000
Silver	ND	1.000	ND	5.0		10	5.000
Sodium	175,100	5,000	180,000	4,000	2	10	50.00
Thallium	ND	1.000	1.7 J	5.0		10	5.000
Vanadium	ND	10.00	3.9 J	5.0		10	5.000
Zinc	ND	20.00	3.6 J	5.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

POST DIGEST SPIKE USER REPORT
Curtis & Tompkins Laboratories
EPA 6020

Instid	: MET05	Instid	: MET05
Seqnum	: 54522026067	Seqnum	: 54522026091
Filename	: 12712067	Filename	: 12712091
IDF	: 1.0	IDF	: 1.0
PDF	: 1.0	PDF	: 1.0
Run type	: MSS	Run type	: PDS
Samplenum	: 176726-004	Samplenum	: QC277689
Matrix	: Filtrate	Matrix	: Filtrate
Batchnum	: 97646	Batchnum	: 97646
Inj	: 27-DEC-2004 18:47	Inj	: 27-DEC-2004 21:07
Units	: ug/L		

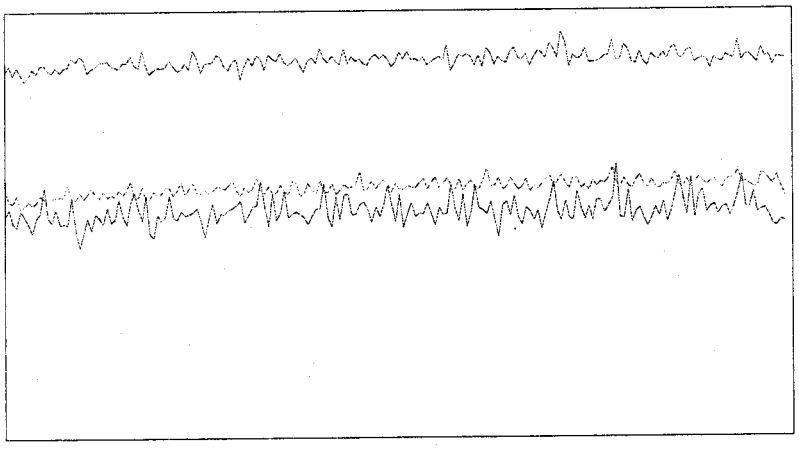
Analyte	MSS	Spike Amt	PDS	%Rec	Lim%Rec	Flags
Aluminum	6.506	100	117.1	111	75-125	u
Antimony	0.1116	100	105.6	105	75-125	u
Arsenic	2.130	100	100.5	98	75-125	u
Barium	74.38	100	192.3	118	75-125	u
Beryllium	ND	100	92.83	93	75-125	>c- b*
Cadmium	ND	100	98.85	99	75-125	u
Calcium	*** usable MSS data not found ***					
Chromium	0.7532	100	107.4	107	75-125	u
Cobalt	0.9213	100	103.5	103	75-125	u
Copper	0.6437	100	100.8	100	75-125	u
Iron	211.3	10000	10700	105	75-125	u
Lead	ND	100	106.8	107	75-125	u
Magnesium	*** usable MSS data not found ***					
Manganese	*** usable MSS data not found ***					
Molybdenum	1.082	100	100.9	100	75-125	
Nickel	6.037	100	108.8	103	75-125	u
Potassium	3656	10000	13450	98	75-125	u
Selenium	3.042	100	95.43	92	75-125	u
Silver	ND	100	96.03	96	75-125	u
Sodium	*** usable MSS data not found ***					
Thallium	0.7285	100	102.4	102	75-125	u
Vanadium	1.656	100	107.7	106	75-125	u
Zinc	3.868	100	99.44	96	75-125	u

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	578354	-9.30
Scandium	751932	613005	-18.48
Germanium	138960	116244	-16.35
Indium	1040752	796225	-23.50
Bismuth	939289	693338	-26.18
Terbium	1401599	1091416	-22.13

-=low bias >=closing b=noncompliant c=CCV u=use

Tune Report

Tune File : ATUNE.U



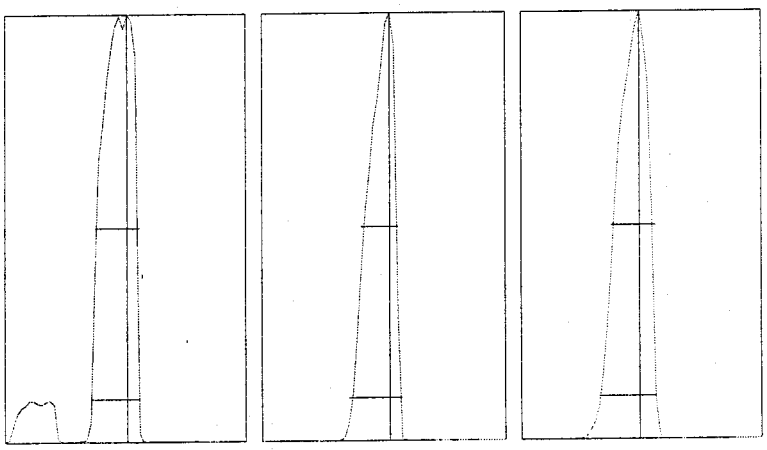
m/z:	7	89	205
Range:	20,000	20,000	50,000
Count:	10,087	17,708	28,143
Mean:	10631.0	17668.1	29328.6
RSD%:	5.53	1.88	2.71
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.52%
Doubly Charged:	70/140	0.90%

Background:

m/z:	7	89	205
Cps:	65.9	35.2	31.4



m/z:	7	89	205
Height:	10,800	19,433	29,131
Axis:	7.05	89.10	205.00
W-50%:	0.55	0.45	0.55
W-10%:	0.600	0.6500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1300 W	Extract 1:	-130 V	AMU Gain:	128
RF Matching:	1.68 V	Extract 2:	-46 V	AMU Offset:	130
Smpl Depth:	7.5 mm	Einzel 1,3:	-126 V	Axis Gain:	1.0003
Torch-H:	1.1 mm	Einzel 2:	16 V	Axis Offset:	-0.02
Torch-V:	0.1 mm	Omega Bias:	-68 V	QP Bias:	0 V
Carrier Gas:	1.03 L/min	Omega (+):	3 V		
Makeup Gas:	0 L/min	Omega (-):	2 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	2 V	Discriminator:	9.2 mV
PeriPump1:	0.1 rps	Plate Bias:	0 V	Analog HV:	1840 V
PeriPump2:	--- rps			Pulse HV:	1400 V
S/C Temp:	2 degC				

Generated : Dec 27, 2004 11:15:53
Printed : Dec 27, 2004 11:16:00

P/A Factor Tuning Report

Acquired:Dec 27 2004 11:30 am

Mass[amu]	Element	P/A Factor
6	Li	Sensitivity too low
9	Be	Sensitivity too low
23	Na	0.070469
25	Mg	Sensitivity too low
26	Mg	Sensitivity too low
27	Al	Sensitivity too low
39	K	0.058681
43	Ca	Sensitivity too low
44	Ca	0.071327
45	Sc	0.072265
51	V	0.071257
52	Cr	0.070359
53	Cr	Sensitivity too low
54	Fe	0.070434
55	Mn	0.071162
57	Fe	0.071386
59	Co	0.069996
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.069449
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.065421
118	(In)	0.065698
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.065003
166	Er	Sensitivity too low

205	Tl	0.060754
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.060666
209	Bi	0.061224
232	Th	0.061628
238	U	0.062219

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 27 2004 11:46 am

Mass[amu]	Element	P/A Factor
6	Li	0.065854
9	Be	Sensitivity too low
23	Na	0.071566
25	Mg	Sensitivity too low
26	Mg	Sensitivity too low
27	Al	Sensitivity too low
39	K	0.070251
43	Ca	Sensitivity too low
44	Ca	0.071327
45	Sc	0.069517
51	V	0.071257
52	Cr	0.070359
53	Cr	Sensitivity too low
54	Fe	0.069143
55	Mn	0.071162
57	Fe	0.068936
59	Co	0.069996
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.067047
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.063357
118	(In)	0.065698
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.063025
166	Er	Sensitivity too low

205	Tl	0.060754
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.060666
209	Bi	0.059336
232	Th	0.061628
238	U	0.062219

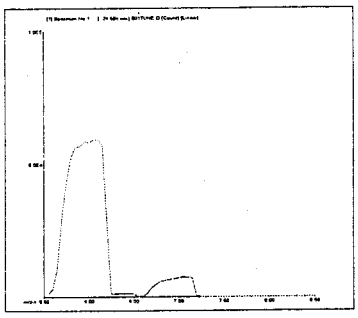
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\04L2712b.B\001TUNE.D
Date Acquired:	Dec 27 2004 12:26 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,04ws2314
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	0.71	5.00	
59 Co	0.97	5.00	
115 In	1.42	5.00	
205 Tl	2.04	5.00	



7 Li

Mass Calib.

Actual: 7.05

Required: 6.90 - 7.10

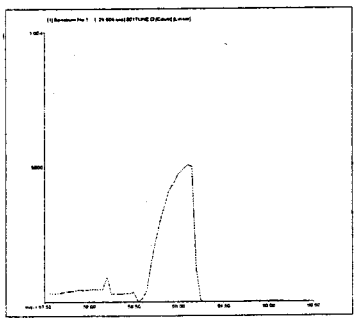
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.10

Required: 58.90 - 59.10

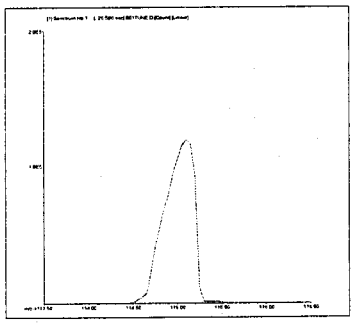
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

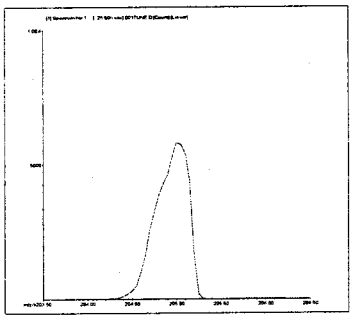
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.00

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2712b.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 27 2004 12:31 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 23 2004 03:28 pm
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	-0.04147	ppb	32.70	-0.04147	1.00	
23 Na	-9.757	ppb	4.49	-9.757	1.00	
26 Mg	-2.797	ppb	4.18	-2.797	1.00	
27 Al	-1.732	ppb	5.29	-1.732	1.00	
39 K	-48.33	ppb	4.47	-48.33	1.00	
44 Ca	-7.537	ppb	12.91	-7.537	1.00	
51 V	-0.03834	ppb	245.96	-0.03834	1.00	
52 Cr	-0.1039	ppb	10.72	-0.1039	1.00	
55 Mn	-0.05157	ppb	12.58	-0.05157	1.00	
57 Fe	-14.9	ppb	6.17	-14.9	1.00	
59 Co	-0.03836	ppb	10.02	-0.03836	1.00	
60 Ni	-0.06093	ppb	60.51	-0.06093	1.00	
65 Cu	-0.003124	ppb	409.41	-0.003124	1.00	
66 Zn	0.4387	ppb	24.28	0.4387	1.00	
75 As	0.9371	ppb	43.17	0.9371	1.00	
82 Se	-3.725	ppb	62.04	-3.725	1.00	
95 Mo	-0.2159	ppb	14.11	-0.2159	1.00	
109 Ag	-0.02922	ppb	8.28	-0.02922	1.00	
111 Cd	0.0683	ppb	35.48	0.0683	1.00	
121 Sb	-0.03713	ppb	5.38	-0.03713	1.00	
137 Ba	2.239	ppb	19.42	2.239	1.00	
205 Tl	0.1952	ppb	31.39	0.1952	1.00	
208 Pb	0.01929	ppb	34.02	0.01929	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	624688.69	1.63	---	#VALUE!	30 - 200	
45 Sc	740114.69	1.36	---	#VALUE!	30 - 200	
72 Ge	137591.11	1.54	---	#VALUE!	30 - 200	

115 In	1036374.90	1.03	---	#VALUE!	30 - 200
209 Bi	936983.38	1.97	---	#VALUE!	30 - 200

ISTD Ref File : ---

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2712b.B\003CAL
Date Acquired:	Dec 27 2004 12:36 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 23 2004 03:28 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	637683.63	A	4459.00	0.70
9	Be	91.11	P	26.94	29.57
23	Na	116911.10	P	1876.00	1.60
26	Mg	847.78	P	5.09	0.60
27	Al	8476.67	P	653.90	7.71
39	K	644658.63	A	16500.00	2.56
44	Ca	2980.76	P	386.30	12.96
45	Sc	751931.81	A	20390.00	2.71
51	V	1639.61	P	314.10	19.16
52	Cr	3195.55	P	17.11	0.54
55	Mn	764.44	P	13.88	1.82
57	Fe	6076.67	P	252.70	4.16
59	Co	184.44	P	29.88	16.20
60	Ni	134.44	P	10.18	7.57
65	Cu	613.33	P	48.42	7.89
66	Zn	1128.89	P	155.10	13.74
72	Ge	138959.59	P	3461.00	2.49
75	As	-1325.49	P	381.70	28.80
82	Se	1377.36	P	94.85	6.89
95	Mo	177.78	P	23.41	13.17
109	Ag	110.00	P	5.77	5.25
111	Cd	257.79	P	12.29	4.77
115	In	1040752.00	A	23900.00	2.30
121	Sb	205.56	P	11.71	5.70
137	Ba	1241.11	P	179.40	14.46
205	Tl	1563.33	P	90.62	5.80
208	Pb	807.78	P	48.80	6.04
209	Bi	939288.69	A	16880.00	1.80
232	Th	373.33	P	30.55	8.18
238	U	40.00	P	14.53	36.33

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2712b.B\004CALI.D\004CALI.D#
Date Acquired: Dec 27 2004 12:42 pm
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 27 2004 00:38 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	634817.38	A	9921.00	1.56
9	Be	340.00	P	20.82	6.12
23	Na	258721.09	P	4011.00	1.55
26	Mg	13978.89	P	306.80	2.19
27	Al	7165.56	P	553.60	7.73
39	K	761350.50	A	2612.00	0.34
44	Ca	6268.97	P	251.00	4.00
45	Sc	734371.13	A	7722.00	1.05
51	V	3431.57	P	356.00	10.37
52	Cr	4354.44	P	289.00	6.64
55	Mn	2323.33	P	92.91	4.00
57	Fe	8934.44	P	350.10	3.92
59	Co	1438.89	P	138.40	9.62
60	Ni	400.00	P	17.32	4.33
65	Cu	913.27	P	57.83	6.33
66	Zn	1294.51	P	70.03	5.41
72	Ge	136520.20	P	2671.00	1.96
75	As	-1185.57	P	516.00	43.52
82	Se	1363.50	P	192.60	14.13
95	Mo	504.44	P	8.39	1.66
109	Ag	960.00	P	54.87	5.72
111	Cd	420.17	P	44.99	10.71
115	In	1028997.00	A	7298.00	0.71
121	Sb	976.67	P	25.17	2.58
137	Ba	1236.67	P	229.00	18.52
205	Tl	2192.22	P	73.13	3.34
208	Pb	3054.44	P	87.71	2.87
209	Bi	934704.88	A	14350.00	1.54
232	Th	1430.00	P	117.20	8.20
238	U	2643.33	P	98.66	3.73

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	634817.38	1.56	637683.56	99.6	30 - 200	
45 Sc	734371.06	1.05	751931.81	97.7	30 - 200	
72 Ge	136520.22	1.96	138959.55	98.2	30 - 200	
115 In	1028997.10	0.71	1040751.60	98.9	30 - 200	
209 Bi	934704.88	1.54	939288.69	99.5	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2712b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2712b.B\005CALI.D\005CALI.D#
Date Acquired: Dec 27 2004 12:47 pm
Operator:
Sample Name: cs2,04ws2311
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 27 2004 00:44 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	621286.13	A	14430.00	2.32
9 Be	702.22	P	28.35	4.04
23 Na	409418.91	P	5899.00	1.44
26 Mg	26602.22	P	749.00	2.82
27 Al	8360.00	P	838.90	10.04
39 K	889910.88	A	13830.00	1.55
44 Ca	10183.52	P	579.40	5.69
45 Sc	728783.50	A	12380.00	1.70
51 V	4522.39	P	282.90	6.26
52 Cr	5652.22	P	194.60	3.44
55 Mn	3932.22	P	51.89	1.32
57 Fe	12094.44	P	259.10	2.14
59 Co	2630.00	P	145.00	5.51
60 Ni	693.33	P	21.86	3.15
65 Cu	1203.21	P	24.03	2.00
66 Zn	2944.58	P	143.80	4.88
72 Ge	135551.09	P	2829.00	2.09
75 As	-453.46	P	295.80	65.23
82 Se	1541.81	P	192.90	12.51
95 Mo	864.44	P	42.86	4.96
109 Ag	1744.44	P	125.10	7.17
111 Cd	625.96	P	79.69	12.73
115 In	1021586.00	A	16800.00	1.64
121 Sb	1675.56	P	18.36	1.10
137 Ba	1260.00	P	145.00	11.51
205 Tl	3324.44	P	260.00	7.82
208 Pb	5548.89	P	194.90	3.51
209 Bi	936694.00	A	13010.00	1.39
232 Th	2793.33	P	105.90	3.79
238 U	5271.11	P	149.20	2.83

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	621286.06	2.32	637683.56	97.4	30 - 200	
45 Sc	728783.50	1.70	751931.81	96.9	30 - 200	
72 Ge	135551.11	2.09	138959.55	97.5	30 - 200	
115 In	1021586.10	1.64	1040751.60	98.2	30 - 200	
209 Bi	936694.00	1.39	939288.69	99.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2712b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2712b.B\006CALI.D\006CALI.D#
Date Acquired: Dec 27 2004 12:52 pm
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 27 2004 00:49 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	642127.38	A	6842.00	1.07
9	Be	1262.22	P	45.26	3.59
23	Na	724057.88	A	14020.00	1.94
26	Mg	52808.89	P	1622.00	3.07
27	Al	9337.78	P	455.60	4.88
39	K	1114967.00	A	14550.00	1.31
44	Ca	17147.08	P	500.10	2.92
45	Sc	732268.50	A	18810.00	2.57
51	V	7063.45	P	893.60	12.65
52	Cr	7683.33	P	107.30	1.40
55	Mn	7025.56	P	59.66	0.85
57	Fe	18185.55	P	320.40	1.76
59	Co	5282.22	P	38.92	0.74
60	Ni	1220.00	P	98.21	8.05
65	Cu	1800.88	P	159.40	8.85
66	Zn	2280.26	P	153.10	6.71
72	Ge	135734.41	P	2971.00	2.19
75	As	-740.26	P	182.90	24.71
82	Se	1375.20	P	170.50	12.40
95	Mo	1482.22	P	86.30	5.82
109	Ag	3356.67	P	229.30	6.83
111	Cd	1008.21	P	36.93	3.66
115	In	1031369.00	A	21770.00	2.11
121	Sb	3190.00	P	139.20	4.36
137	Ba	1621.11	P	83.16	5.13
205	Tl	6074.44	P	315.20	5.19
208	Pb	9873.33	P	228.70	2.32
209	Bi	938156.69	A	16540.00	1.76
232	Th	6162.22	P	244.70	3.97
238	U	10292.22	P	249.80	2.43

ISTD Elements

C:\ICPCHEM\1\DATA\04L2712b.B\006CALI.D\006CALI.D#

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	642127.38	1.07	637683.56	100.7	30 - 200	
45 Sc	732268.50	2.57	751931.81	97.4	30 - 200	
72 Ge	135734.45	2.19	138959.55	97.7	30 - 200	
115 In	1031368.50	2.11	1040751.60	99.1	30 - 200	
209 Bi	938156.75	1.76	939288.69	99.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2712b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2712b.B\007CALI.D\007CALI.D#
Date Acquired: Dec 27 2004 12:57 pm
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 27 2004 00:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	648962.50	A	14070.00	2.17
9	Be	11435.56	P	191.00	1.67
23	Na	5795929.00	A	87630.00	1.51
26	Mg	531798.38	M	9931.00	1.87
27	Al	45366.66	P	1215.00	2.68
39	K	5252308.00	A	83200.00	1.58
44	Ca	143758.59	P	2702.00	1.88
45	Sc	750196.69	A	7880.00	1.05
51	V	59641.92	P	662.80	1.11
52	Cr	51211.11	P	830.10	1.62
55	Mn	62724.44	P	1486.00	2.37
57	Fe	129080.00	P	2281.00	1.77
59	Co	49084.44	P	736.80	1.50
60	Ni	10866.67	P	236.70	2.18
65	Cu	20591.18	M	13770.00	66.87
66	Zn	7867.10	P	204.70	2.60
72	Ge	140797.30	P	3589.00	2.55
75	As	5941.72	P	239.10	4.02
82	Se	1979.47	P	70.38	3.56
95	Mo	14416.67	P	90.74	0.63
109	Ag	34022.22	P	969.20	2.85
111	Cd	7466.77	P	191.70	2.57
115	In	1031876.00	A	3646.00	0.35
121	Sb	30401.11	P	861.20	2.83
137	Ba	10432.22	P	390.60	3.74
205	Tl	65222.22	P	2410.00	3.70
208	Pb	91841.11	P	2351.00	2.56
209	Bi	934688.00	A	13000.00	1.39
232	Th	61382.22	P	2231.00	3.63
238	U	100878.90	P	2895.00	2.87

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	648962.50	2.17	637683.56	101.8	30 - 200	
45 Sc	750196.75	1.05	751931.81	99.8	30 - 200	
72 Ge	140797.33	2.55	138959.55	101.3	30 - 200	
115 In	1031876.30	0.35	1040751.60	99.1	30 - 200	
209 Bi	934688.00	1.39	939288.69	99.5	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2712b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2712b.B\008CALI.D\008CALI.D#
Date Acquired: Dec 27 2004 01:03 pm
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 27 2004 00:59 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	636163.69	A	6409.00	1.01
9 Be	113204.40	P	2685.00	2.37
23 Na	55387940.00	A	401600.00	0.73
26 Mg	4928427.00	A	75250.00	1.53
27 Al	396431.09	P	12760.00	3.22
39 K	45208712.00	A	769300.00	1.70
44 Ca	1396348.00	A	5855.00	0.42
45 Sc	729840.88	A	9070.00	1.24
51 V	599942.63	A	9591.00	1.60
52 Cr	483190.00	P	12270.00	2.54
55 Mn	624005.63	A	7368.00	1.18
57 Fe	1214835.00	A	17390.00	1.43
59 Co	496373.69	M	8342.00	1.68
60 Ni	103346.70	P	3022.00	2.92
65 Cu	115120.40	P	3789.00	3.29
66 Zn	65499.09	P	1864.00	2.85
72 Ge	141000.91	P	3423.00	2.43
75 As	69322.80	P	1533.00	2.21
82 Se	5940.47	P	341.60	5.75
95 Mo	142323.30	P	2826.00	1.99
109 Ag	326891.09	P	8598.00	2.63
111 Cd	71482.24	P	2373.00	3.32
115 In	996060.19	A	7780.00	0.78
121 Sb	295990.00	P	7283.00	2.46
137 Ba	97566.66	P	3498.00	3.59
205 Tl	703891.31	A	4031.00	0.57
208 Pb	911937.88	M	36120.00	3.96
209 Bi	898775.81	A	14780.00	1.64
232 Th	969753.31	A	45990.00	4.74
238 U	1118988.00	A	24590.00	2.20

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	636163.69	1.01	637683.56	99.8	30 - 200	
45 Sc	729840.88	1.24	751931.81	97.1	30 - 200	
72 Ge	141000.89	2.43	138959.55	101.5	30 - 200	
115 In	996060.19	0.78	1040751.60	95.7	30 - 200	
209 Bi	898775.81	1.64	939288.69	95.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2712b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2712b.B\009CALI.D\009CALI.D#
Date Acquired: Dec 27 2004 01:08 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 27 2004 01:04 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	613990.38	A	13470.00	2.19
9 Be	218595.50	P	5106.00	2.34
23 Na	108083000.00	A	1924000.00	1.78
26 Mg	9643234.00	A	161600.00	1.68
27 Al	782275.38	A	14580.00	1.86
39 K	87874152.00	A	1748000.00	1.99
44 Ca	2678864.00	A	31760.00	1.19
45 Sc	729245.00	A	10680.00	1.46
51 V	1168581.00	A	9306.00	0.80
52 Cr	948189.19	A	10900.00	1.15
55 Mn	1222961.00	A	8575.00	0.70
57 Fe	2336111.00	A	33870.00	1.45
59 Co	961656.50	A	10590.00	1.10
60 Ni	203895.59	P	6311.00	3.10
65 Cu	224293.41	P	5962.00	2.66
66 Zn	126957.10	P	2478.00	1.95
72 Ge	141088.41	P	3805.00	2.70
75 As	138748.09	P	2890.00	2.08
82 Se	10569.54	P	172.20	1.63
95 Mo	286044.41	P	7684.00	2.69
109 Ag	648785.19	A	10700.00	1.65
111 Cd	140728.20	P	4487.00	3.19
115 In	981778.38	A	15450.00	1.57
121 Sb	597292.50	A	7125.00	1.19
137 Ba	193832.20	P	4689.00	2.42
205 Tl	1379271.00	A	14670.00	1.06
208 Pb	1834960.00	A	45800.00	2.50
209 Bi	886855.00	A	13470.00	1.52
232 Th	2095848.00	A	56700.00	2.71
238 U	2164470.00	A	47390.00	2.19

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	613990.44	2.19	637683.56	96.3	30 - 200	
45 Sc	729245.00	1.46	751931.81	97.0	30 - 200	
72 Ge	141088.45	2.70	138959.55	101.5	30 - 200	
115 In	981778.38	1.57	1040751.60	94.3	30 - 200	
209 Bi	886854.94	1.52	939288.69	94.4	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2712b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 27, 2004 13:13
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412712b.b\003calb.d\	003calb.d#	Dec 27 2004 12:36 pm
2	...hem\1\data\0412712b.b\004cali.d\	004cali.d#	Dec 27 2004 12:42 pm
3	...hem\1\data\0412712b.b\005cali.d\	005cali.d#	Dec 27 2004 12:47 pm
4	...hem\1\data\0412712b.b\006cali.d\	006cali.d#	Dec 27 2004 12:52 pm
5	...hem\1\data\0412712b.b\007cali.d\	007cali.d#	Dec 27 2004 12:57 pm
6	...hem\1\data\0412712b.b\008cali.d\	008cali.d#	Dec 27 2004 01:03 pm
7	...hem\1\data\0412712b.b\009cali.d\	009cali.d#	Dec 27 2004 01:08 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 8.899E-2*X +4.316E-3	1.0000	ppb
Na	23	45	Y = 3.711E-1*X +1.928E+1	0.9999	ppb
Mg	25	45	Y = 2.968E-2*X +6.127E-1	1.0000	ppb
Mg	26	45	Y = 3.312E-2*X +1.332E+0	0.9999	ppb
Al	27	45	Y = 2.662E-1*X +4.467E-1	1.0000	ppb
K	39	45	Y = 2.998E-1*X +5.225E+1	1.0000	ppb
Ca	43	45	Y = 5.917E-4*X +1.664E-2	1.0000	ppb
Ca	44	45	Y = 9.223E-3*X +6.171E-1	0.9998	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.076E+0*X +1.063E+0	0.9999	ppb
Cr	52	72	Y = 1.678E+0*X +1.494E+0	1.0000	ppb
Cr	53	72	Y = 1.949E-1*X +1.455E+0	1.0000	ppb
Fe	54	72	Y = 1.015E-1*X +8.754E+0	0.9999	ppb
Mn	55	72	Y = 2.173E+0*X +7.182E-1	1.0000	ppb
Fe	57	72	Y = 4.148E-2*X +4.341E+0	0.9998	ppb
Co	59	72	Y = 1.712E+0*X +5.985E-1	0.9999	ppb
Ni	60	72	Y = 3.615E-1*X +1.373E-1	1.0000	ppb
Cu	63	72	Y = 8.381E-1*X +7.478E-1	1.0000	ppb
Cu	65	72	Y = 3.936E-1*X +1.070E+0	0.9992	ppb
Zn	66	72	Y = 2.223E-1*X +6.823E-1	0.9999	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.483E-1*X -3.958E-1	1.0000	ppb
(As)	77	72	Y = 1.228E-2*X +3.113E-1	1.0000	ppb
Se	82	72	Y = 1.609E-2*X +5.194E-1	0.9998	ppb
(As)	83	72	Y = 1.019E-3*X +7.071E+0	0.5272	ppb
(Ca)	88	72	Y = 8.222E-3*X +1.238E-1	0.9997	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 5.062E-1*X +3.365E-2	1.0000	ppb
Mo	98	72	Y = 8.004E-1*X +1.930E-1	1.0000	ppb
(Mo)	99	72	Y = 7.763E-5*X +1.963E-2	0.8491	ppb
(Cd)	106	72	Y = 2.205E-2*X +1.382E-1	1.0000	ppb
(Cd)	108	72	Y = 1.629E-2*X +3.066E-2	0.9999	ppb
Ag	109	72	Y = 1.150E+0*X +2.281E-1	1.0000	ppb
Cd	111	72	Y = 2.493E-1*X +1.413E-1	1.0000	ppb
Cd	114	72	Y = 5.765E-1*X +1.612E-1	1.0000	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.516E-1*X -2.979E-2	0.9999	ppb
Ba	135	115	Y = 2.825E-2*X +1.648E-2	0.9999	ppb
Ba	137	115	Y = 4.907E-2*X +3.354E-2	1.0000	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.897E-1*X -6.587E-2	1.0000	ppb
(Pb)	206	209	Y = 1.226E-1*X -5.154E-3	1.0000	ppb
(Pb)	207	209	Y = 1.101E-1*X -6.146E-3	1.0000	ppb
Pb	208	209	Y = 5.158E-1*X -9.860E-2	1.0000	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 5.873E-1*X -1.180E+0	0.9991	ppb
U	238	209	Y = 6.128E-1*X -5.700E-2	0.9999	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026011
Run Name :
Filename : 12712011
Injected : 27-DEC-2004 13:18
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	100.0000	100.2000	ug/L	0	10
Antimony	100.0000	97.00000	ug/L	-3	10
Arsenic	100.0000	99.81000	ug/L	0	10
Barium	100.0000	97.95000	ug/L	-2	10
Beryllium	100.0000	95.93000	ug/L	-4	10
Cadmium	100.0000	102.0000	ug/L	2	10
Calcium	10000.00	10150.00	ug/L	2	10
Chromium	100.0000	102.4000	ug/L	2	10
Cobalt	100.0000	100.3000	ug/L	0	10
Copper	100.0000	102.1000	ug/L	2	10
Iron	10000.00	10450.00	ug/L	5	10
Lead	100.0000	98.44000	ug/L	-2	10
Magnesium	10000.00	10200.00	ug/L	2	10
Manganese	100.0000	103.8000	ug/L	4	10
Molybdenum	100.0000	99.60000	ug/L	0	10
Nickel	100.0000	103.7000	ug/L	4	10
Potassium	10000.00	9914.000	ug/L	-1	10
Selenium	100.0000	99.88000	ug/L	0	10
Silver	100.0000	101.8000	ug/L	2	10
Sodium	10000.00	10160.00	ug/L	2	10
Thallium	100.0000	101.1000	ug/L	1	10
Vanadium	100.0000	101.2000	ug/L	1	10
Zinc	100.0000	100.5000	ug/L	1	10

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	652599	2.34
Scandium	751932	738577	-1.78
Germanium	138960	140879	1.38
Indium	1040752	1021197	-1.88
Bismuth	939289	911485	-2.96
Terbium	1401599	1359276	-3.02

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

nstid : MET05
eqnum : 54522026029

Run Name :
Filename : 12712029

IDF : 1.0
Injected : 27-DEC-2004 15:04
Caltype :

tandards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2788	100.0000	102.9000	ug/L	3	10	
Antimony	0.1477	100.0000	97.55000	ug/L	-2	10	
Arsenic	0.2448	100.0000	100.3000	ug/L	0	10	
Barium	0.0492	100.0000	99.47000	ug/L	-1	10	
Beryllium	0.0836	100.0000	93.83000	ug/L	-6	10	
Cadmium	0.2545	100.0000	101.6000	ug/L	2	10	
Calcium	0.0095	10000.00	10220.00	ug/L	2	10	
Chromium	1.7400	100.0000	102.9000	ug/L	3	10	
Cobalt	1.7330	100.0000	101.0000	ug/L	1	10	
Copper	0.4107	100.0000	102.4000	ug/L	2	10	
Iron	0.0435	10000.00	10410.00	ug/L	4	10	
Lead	0.5071	100.0000	98.40000	ug/L	-2	10	
Magnesium	0.0342	10000.00	10280.00	ug/L	3	10	
Manganese	2.2552	100.0000	103.5000	ug/L	4	10	
Molybdenum	0.5026	100.0000	99.20000	ug/L	-1	10	
Nickel	0.3730	100.0000	102.9000	ug/L	3	10	
Potassium	0.3046	10000.00	9998.000	ug/L	0	10	
Selenium	0.0215	100.0000	101.9000	ug/L	2	10	
Silver	1.1738	100.0000	101.9000	ug/L	2	10	
Sodium	0.3806	10000.00	10210.00	ug/L	2	10	
Thallium	0.3892	100.0000	99.88000	ug/L	0	10	
Vanadium	2.0928	100.0000	100.4000	ug/L	0	10	
Zinc	0.2306	100.0000	101.1000	ug/L	1	10	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	617088	-3.23
Scandium	751932	700692	-6.81
Germanium	138960	134332	-3.33
Indium	1040752	966321	-7.15
Bismuth	939289	860224	-8.42
Terbium	1401599	1272491	-9.21

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026044
Run Name :
Filename : 12712044
IDF : 1.0
Injected : 27-DEC-2004 16:31
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2947	100.0000	108.9000	ug/L	9	10	
Antimony	0.1511	100.0000	99.81000	ug/L	0	10	
Arsenic	0.2413	100.0000	98.92000	ug/L	-1	10	
Barium	0.0515	100.0000	104.2000	ug/L	4	10	
Beryllium	0.0824	100.0000	92.56000	ug/L	-7	10	
Cadmium	0.2562	100.0000	102.3000	ug/L	2	10	
Calcium	0.0095	10000.00	10220.00	ug/L	2	10	
Chromium	1.7779	100.0000	105.1000	ug/L	5	10	
Cobalt	1.7809	100.0000	103.8000	ug/L	4	10	
Copper	0.4192	100.0000	104.5000	ug/L	5	10	
Iron	0.0444	10000.00	10630.00	ug/L	6	10	
Lead	0.5168	100.0000	100.3000	ug/L	0	10	
Magnesium	0.0352	10000.00	10600.00	ug/L	6	10	
Manganese	2.2859	100.0000	105.0000	ug/L	5	10	
Molybdenum	0.5009	100.0000	98.86000	ug/L	-1	10	
Nickel	0.3822	100.0000	105.4000	ug/L	5	10	
Potassium	0.3015	10000.00	9895.000	ug/L	-1	10	
Selenium	0.0207	100.0000	96.93000	ug/L	-3	10	
Silver	1.1809	100.0000	102.5000	ug/L	3	10	
Sodium	0.3893	10000.00	10450.00	ug/L	5	10	
Thallium	0.3854	100.0000	98.91000	ug/L	-1	10	
Vanadium	2.1474	100.0000	103.0000	ug/L	3	10	
Zinc	0.2331	100.0000	102.2000	ug/L	2	10	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	613991	-3.72
Scandium	751932	668836	-11.05
Germanium	138960	129145	-7.06
Indium	1040752	929521	-10.69
Bismuth	939289	838176	-10.76
Terbium	1401599	1248016	-10.96

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026053

Run Name :
Filename : 12712053

IDF : 1.0
Injected : 27-DEC-2004 17:25
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2922	100.0000	108.0000	ug/L	8	10	
Antimony	0.1510	100.0000	99.73000	ug/L	0	10	
Arsenic	0.2430	100.0000	99.61000	ug/L	0	10	
Barium	0.0509	100.0000	102.9000	ug/L	3	10	
Beryllium	0.0823	100.0000	92.39000	ug/L	-8	10	
Cadmium	0.2560	100.0000	102.2000	ug/L	2	10	
Calcium	0.0095	10000.00	10230.00	ug/L	2	10	
Chromium	1.7796	100.0000	105.2000	ug/L	5	10	
Cobalt	1.7817	100.0000	103.8000	ug/L	4	10	
Copper	0.4177	100.0000	104.2000	ug/L	4	10	
Iron	0.0443	10000.00	10600.00	ug/L	6	10	
Lead	0.5106	100.0000	99.09000	ug/L	-1	10	
Magnesium	0.0352	10000.00	10610.00	ug/L	6	10	
Manganese	2.2882	100.0000	105.1000	ug/L	5	10	
Molybdenum	0.4959	100.0000	97.88000	ug/L	-2	10	
Nickel	0.3815	100.0000	105.2000	ug/L	5	10	
Potassium	0.2999	10000.00	9842.000	ug/L	-2	10	
Selenium	0.0209	100.0000	98.46000	ug/L	-2	10	
Silver	1.1796	100.0000	102.4000	ug/L	2	10	
Sodium	0.3886	10000.00	10430.00	ug/L	4	10	
Thallium	0.3826	100.0000	98.19000	ug/L	-2	10	
Vanadium	2.1335	100.0000	102.3000	ug/L	2	10	
Zinc	0.2331	100.0000	102.2000	ug/L	2	10	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	606973	-4.82
Scandium	751932	666990	-11.30
Germanium	138960	127425	-8.30
Indium	1040752	921827	-11.43
Bismuth	939289	823567	-12.32
Terbium	1401599	1227789	-12.40

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026070
Run Name :
Filename : 12712070
IDF : 1.0
Injected : 27-DEC-2004 19:04
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2791	100.0000	103.0000	ug/L	3	10	
Antimony	0.1486	100.0000	98.15000	ug/L	-2	10	
Arsenic	0.2406	100.0000	98.64000	ug/L	-1	10	
Barium	0.0494	100.0000	99.73000	ug/L	0	10	
Beryllium	0.0830	100.0000	93.25000	ug/L	-7	10	
Cadmium	0.2519	100.0000	100.5000	ug/L	1	10	
Calcium	0.0093	10000.00	9982.000	ug/L	0	10	
Chromium	1.7525	100.0000	103.6000	ug/L	4	10	
Cobalt	1.7308	100.0000	100.9000	ug/L	1	10	
Copper	0.4096	100.0000	102.1000	ug/L	2	10	
Iron	0.0435	10000.00	10400.00	ug/L	4	10	
Lead	0.5052	100.0000	98.03000	ug/L	-2	10	
Magnesium	0.0341	10000.00	10260.00	ug/L	3	10	
Manganese	2.2347	100.0000	102.6000	ug/L	3	10	
Molybdenum	0.5015	100.0000	98.97000	ug/L	-1	10	
Nickel	0.3764	100.0000	103.8000	ug/L	4	10	
Potassium	0.2978	10000.00	9772.000	ug/L	-2	10	
Selenium	0.0206	100.0000	96.17000	ug/L	-4	10	
Silver	1.1644	100.0000	101.1000	ug/L	1	10	
Sodium	0.3760	10000.00	10090.00	ug/L	1	10	
Thallium	0.3756	100.0000	96.40000	ug/L	-4	10	
Vanadium	2.0979	100.0000	100.6000	ug/L	1	10	
Zinc	0.2293	100.0000	100.5000	ug/L	1	10	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	602015	-5.59
Scandium	751932	699541	-6.97
Germanium	138960	133840	-3.68
Indium	1040752	959965	-7.76
Bismuth	939289	845590	-9.98
Terbium	1401599	1252266	-10.65

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026084
Run Name :
Filename : 12712084
IDF : 1.0
Injected : 27-DEC-2004 20:26
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2907	100.0000	107.4000	ug/L	7	10	
Antimony	0.1520	100.0000	100.4000	ug/L	0	10	
Arsenic	0.2388	100.0000	97.93000	ug/L	-2	10	
Barium	0.0511	100.0000	103.3000	ug/L	3	10	
Beryllium	0.0816	100.0000	91.63000	ug/L	-8	10	
Cadmium	0.2528	100.0000	100.9000	ug/L	1	10	
Calcium	0.0094	10000.00	10150.00	ug/L	2	10	
Chromium	1.7673	100.0000	104.5000	ug/L	5	10	
Cobalt	1.7612	100.0000	102.6000	ug/L	3	10	
Copper	0.4125	100.0000	102.9000	ug/L	3	10	
Iron	0.0439	10000.00	10500.00	ug/L	5	10	
Lead	0.5126	100.0000	99.47000	ug/L	-1	10	
Magnesium	0.0353	10000.00	10640.00	ug/L	6	10	
Manganese	2.2772	100.0000	104.6000	ug/L	5	10	
Molybdenum	0.4941	100.0000	97.52000	ug/L	-2	10	
Nickel	0.3783	100.0000	104.4000	ug/L	4	10	
Potassium	0.3000	10000.00	9844.000	ug/L	-2	10	
Selenium	0.0209	100.0000	98.40000	ug/L	-2	10	
Silver	1.1632	100.0000	101.0000	ug/L	1	10	
Sodium	0.3925	10000.00	10540.00	ug/L	5	10	
Thallium	0.3711	100.0000	95.25000	ug/L	-5	10	
Vanadium	2.1109	100.0000	101.2000	ug/L	1	10	
Zinc	0.2328	100.0000	102.1000	ug/L	2	10	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	596589	-6.44
Scandium	751932	651722	-13.33
Germanium	138960	125360	-9.79
Indium	1040752	894585	-14.04
Bismuth	939289	806085	-14.18
Terbium	1401599	1180638	-15.76

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026106

Run Name :
Filename : 12712106

IDF : 1.0
Injected : 27-DEC-2004 22:35
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2847	150.0000	158.7000	ug/L	6	10	
Antimony	0.1462	150.0000	144.8000	ug/L	-3	10	
Arsenic	0.2365	150.0000	144.5000	ug/L	-4	10	
Barium	0.0496	150.0000	150.8000	ug/L	1	10	
Beryllium	0.0793	150.0000	133.6000	ug/L	**-11**	10	c- **
Cadmium	0.2520	150.0000	151.1000	ug/L	1	10	
Calcium	0.0091	15000.00	14780.00	ug/L	-1	10	
Chromium	1.7506	150.0000	155.6000	ug/L	4	10	
Cobalt	1.7770	150.0000	155.3000	ug/L	4	10	
Copper	0.4035	150.0000	151.2000	ug/L	1	10	
Iron	0.0435	15000.00	15640.00	ug/L	4	10	
Lead	0.5084	150.0000	148.0000	ug/L	-1	10	
Magnesium	0.0349	15000.00	15760.00	ug/L	5	10	
Manganese	2.2693	150.0000	156.3000	ug/L	4	10	
Molybdenum	0.4864	150.0000	144.1000	ug/L	-4	10	
Nickel	0.3753	150.0000	155.4000	ug/L	4	10	
Potassium	0.2913	15000.00	14400.00	ug/L	-4	10	
Selenium	0.0191	150.0000	146.3000	ug/L	-2	10	
Silver	1.1054	150.0000	143.9000	ug/L	-4	10	
Sodium	0.3841	15000.00	15470.00	ug/L	3	10	
Thallium	0.3876	150.0000	149.3000	ug/L	0	10	
Vanadium	2.1411	150.0000	154.2000	ug/L	3	10	
Zinc	0.2268	150.0000	150.0000	ug/L	0	10	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	601257	-5.71
Scandium	751932	646070	-14.08
Germanium	138960	121368	-12.66
Indium	1040752	888136	-14.66
Bismuth	939289	789454	-15.95
Terbium	1401599	1161376	-17.14

-=low bias c=CCV

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026121
Run Name :
Filename : 12712121
IDF : 1.0
Injected : 28-DEC-2004 00:03
Caltype :

Standards: 04WS2319, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2811	150.0000	156.7000	ug/L	4	10	
Antimony	0.1428	150.0000	141.5000	ug/L	-6	10	
Arsenic	0.2332	150.0000	142.5000	ug/L	-5	10	
Barium	0.0498	150.0000	151.4000	ug/L	1	10	
Beryllium	0.0789	150.0000	133.0000	ug/L	**-11**	10	c- **
Cadmium	0.2497	150.0000	149.7000	ug/L	0	10	
Calcium	0.0090	15000.00	14520.00	ug/L	-3	10	
Chromium	1.7712	150.0000	157.4000	ug/L	5	10	
Cobalt	1.8187	150.0000	159.0000	ug/L	6	10	
Copper	0.4046	150.0000	151.6000	ug/L	1	10	
Iron	0.0437	15000.00	15720.00	ug/L	5	10	
Lead	0.4975	150.0000	144.9000	ug/L	-3	10	
Magnesium	0.0345	15000.00	15580.00	ug/L	4	10	
Manganese	2.2839	150.0000	157.3000	ug/L	5	10	
Molybdenum	0.4807	150.0000	142.4000	ug/L	-5	10	
Nickel	0.3790	150.0000	156.9000	ug/L	5	10	
Potassium	0.2842	15000.00	14050.00	ug/L	-6	10	
Selenium	0.0184	150.0000	139.4000	ug/L	-7	10	
Silver	1.1374	150.0000	148.1000	ug/L	-1	10	
Sodium	0.3820	15000.00	15390.00	ug/L	3	10	
Thallium	0.3780	150.0000	145.6000	ug/L	-3	10	
Vanadium	2.1477	150.0000	154.7000	ug/L	3	10	
Zinc	0.2269	150.0000	150.1000	ug/L	0	10	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	592479	-7.09
Scandium	751932	632968	-15.82
Germanium	138960	116090	-16.46
Indium	1040752	859255	-17.44
Bismuth	939289	778890	-17.08
Terbium	1401599	1129017	-19.45

-=low bias c=CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026003 Run Name: std-blk Injected: 27-DEC-2004 12:36
Filename: 12712003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026014 Run Name:
Filename: 12712014 Run Type: ICB

Injected: 27-DEC-2004 13:36

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.1729]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026031 Run Name:
Filename: 12712031 Run Type: CCB

Injected: 27-DEC-2004 15:15

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.2089]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026046 Run Name:
Filename: 12712046 Run Type: CCB

Injected: 27-DEC-2004 16:43

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[0.9477]	50.00000	ug/L	<RL
Antimony	[0.0894]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	[7.5600]	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	[26.780]	50.00000	ug/L	<RL
Thallium	[0.3556]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.1770]	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

nstrument: MET05 Agilent ICP-MS
eqnum: 54522026055 Run Name:
ilename: 12712055 Run Type: CCB

Injected: 27-DEC-2004 17:36

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	[0.9901]	50.00000	ug/L	<RL
Antimony	[0.0827]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	[8.3920]	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	0.770100	0.500000	ug/L	<RL ib ***
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	[0.3112]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.1993]	1.000000	ug/L	<RL

ib=instrument blank

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026071 Run Name: Injected: 27-DEC-2004 19:10
Filename: l2712071 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[13.900]	50.00000	ug/L	<RL	
Antimony	[0.2370]	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	[39.170]	50.00000	ug/L	<RL	
Chromium	ND	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	[45.310]	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	[25.370]	50.00000	ug/L	<RL	
Manganese	[0.0857]	0.250000	ug/L	<RL	
Molybdenum	[0.4612]	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	ND	0.500000	ug/L	<RL	
Silver	ND	0.250000	ug/L	<RL	
Sodium	79.12000	50.00000	ug/L	<RL	ib ***
Thallium	0.891200	0.500000	ug/L	<RL	ib ***
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

ib=instrument blank
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026086 Run Name: Injected: 27-DEC-2004 20:38
Filename: 12712086 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	[8.1760]	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	[0.2110]	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	[0.4851]	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026108 Run Name: Injected: 27-DEC-2004 22:46
Filename: l2712108 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.1549]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	[12.280]	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026123 Run Name:
Filename: 12712123 Run Type: CCB

Injected: 28-DEC-2004 00:14

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.1444]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	[12.390]	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	[0.0843]	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54522026016 Run Name:
Filename: 12712016 Run Type: ICSA

Injected: 27-DEC-2004 13:48

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.495000	0.250000	ug/L	<RL
Arsenic	1.129000	0.500000	ug/L	<RL
Barium	[0.0000]	0.250000	ug/L	<RL
Beryllium	[0.1061]	0.250000	ug/L	<RL
Cadmium	[0.1500]	0.250000	ug/L	<RL
Chromium	1.644000	0.500000	ug/L	<RL
Cobalt	2.758000	0.250000	ug/L	<RL
Copper	1.826000	0.500000	ug/L	<RL
Lead	1.453000	0.250000	ug/L	<RL
Manganese	1.071000	0.250000	ug/L	<RL
Nickel	2.279000	0.250000	ug/L	<RL
Selenium	5.072000	0.500000	ug/L	<RL
Silver	[0.1714]	0.250000	ug/L	<RL
Thallium	[0.0549]	0.500000	ug/L	<RL
Vanadium	[0.2245]	1.000000	ug/L	<RL
Zinc	3.535000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	95510	ug/L	96
Calcium	300000	306500	ug/L	102
Iron	250000	240400	ug/L	96
Magnesium	100000	100600	ug/L	101
Molybdenum	2000	1916	ug/L	96
Potassium	100000	100300	ug/L	100
Sodium	250000	237100	ug/L	95

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54522026017

Run Name :
Filename : 12712017

Injected : 27-DEC-2004 13:54
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	95500.00	ug/L	-5		
Arsenic	100.0000	112.0000	ug/L	12	20	
Cadmium	100.0000	98.34000	ug/L	-2	20	
Calcium	300000.0	304100.0	ug/L	1		
Chromium	200.0000	204.9000	ug/L	2	20	
Cobalt	200.0000	199.5000	ug/L	0	20	
Copper	200.0000	199.7000	ug/L	0	20	
Iron	250000.0	234400.0	ug/L	-6		
Magnesium	100000.0	99810.00	ug/L	0		
Manganese	200.0000	202.0000	ug/L	1	20	
Molybdenum	2000.000	1848.000	ug/L	-8		
Nickel	200.0000	202.6000	ug/L	1	20	
Potassium	100000.0	99770.00	ug/L	0		
Selenium	100.0000	107.2000	ug/L	7	20	
Silver	50.00000	49.49000	ug/L	-1	20	
Sodium	250000.0	237500.0	ug/L	-5		
Vanadium	200.0000	205.5000	ug/L	3	20	
Zinc	100.0000	99.72000	ug/L	0	20	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	581958	-8.74
Scandium	751932	745020	-0.92
Germanium	138960	152602	9.82
Indium	1040752	955240	-8.22
Bismuth	939289	802280	-14.59
Terbium	1401599	1358120	-3.10

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 54522026056 Filename : 12712056 Injected : 27-DEC-2004 17:42
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	99790.00	ug/L	0		
Arsenic	100.0000	108.6000	ug/L	9	20	
Cadmium	100.0000	99.49000	ug/L	-1	20	
Calcium	300000.0	300300.0	ug/L	0		
Chromium	200.0000	209.6000	ug/L	5	20	
Cobalt	200.0000	206.7000	ug/L	3	20	
Copper	200.0000	201.9000	ug/L	1	20	
Iron	250000.0	243300.0	ug/L	-3		
Magnesium	100000.0	103400.0	ug/L	3		
Manganese	200.0000	208.5000	ug/L	4	20	
Molybdenum	2000.000	1836.000	ug/L	-8		
Nickel	200.0000	210.4000	ug/L	5	20	
Potassium	100000.0	97200.00	ug/L	-3		
Selenium	100.0000	103.6000	ug/L	4	20	
Silver	50.00000	50.27000	ug/L	1	20	
Sodium	250000.0	243700.0	ug/L	-3		
Vanadium	200.0000	210.9000	ug/L	5	20	
Zinc	100.0000	99.76000	ug/L	0	20	

ISTD (IB=12712003)	IB Abund	Abund	%Diff
Lithium	637684	568912	-10.78
Scandium	751932	686735	-8.67
Germanium	138960	137026	-1.39
Indium	1040752	892187	-14.27
Bismuth	939289	753904	-19.74
Terbium	1401599	1225707	-12.55

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54522026 Instrument: MET05 Agilent ICP-MS Begun: 27-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	12712001	TUN				27-DEC-2004 12:26	1.0	1.0			1	
003	12712003	IB	std-blk			27-DEC-2004 12:36	1.0	1.0			2	
004	12712004	ICAL	cal			27-DEC-2004 12:42	1.0				3 2	
005	12712005	ICAL	cs2			27-DEC-2004 12:47	1.0				4 2	
006	12712006	ICAL	cs3			27-DEC-2004 12:52	1.0				5 2	
007	12712007	ICAL	cs4			27-DEC-2004 12:57	1.0				6 2	
008	12712008	ICAL	cs5			27-DEC-2004 13:03	1.0				7 2	
009	12712009	ICAL	cs6			27-DEC-2004 13:08	1.0				8 2	
011	12712011	ICV				27-DEC-2004 13:18	1.0	1.0			9 2	
014	12712014	ICB				27-DEC-2004 13:36	1.0	1.0			2	
016	12712016	ICSA				27-DEC-2004 13:48	1.0	1.0			10 2	7:CA=306500
017	12712017	ICSAB				27-DEC-2004 13:54	1.0	1.0			11 2	11:CA=304100
018	12712018	BLANK	QC277579	97809	Water	27-DEC-2004 13:59	1.0	1.0			2	
020	12712020	BS	QC277580	97809	Water	27-DEC-2004 14:11	1.0	1.0			2	
021	12712021	BSD	QC277581	97809	Water	27-DEC-2004 14:17	1.0	1.0			2	
023	12712023	MSS	176829-001	97809	Water	27-DEC-2004 14:29	1.0	1.0	7		2	6:NA=173800
024	12712024	SER	QC277584	97809	Water	27-DEC-2004 14:34	5.0	1.0			2	2:NA=36360.0
025	12712025	MSS	176829-001	97809	Water	27-DEC-2004 14:40	1.0	1.0	6		2	6:NA=172900
026	12712026	MSS	176829-001	97809	Water	27-DEC-2004 14:46	5.0	1.0	2		2	2:NA=35760.0
027	12712027	SER	QC277584	97809	Water	27-DEC-2004 14:52	25.0	1.0		1	2	
029	12712029	CCV				27-DEC-2004 15:04	1.0	1.0			12 2	
031	12712031	CCB				27-DEC-2004 15:15	1.0	1.0			2	
032	12712032	MS	QC277582	97809	Water	27-DEC-2004 15:21	1.0	1.0	3	1	2	7:NA=182400
033	12712033	MSD	QC277583	97809	Water	27-DEC-2004 15:27	1.0	1.0	3		2	7:NA=180500
035	12712035	MS	QC277582	97809	Water	27-DEC-2004 15:39	2.0	1.0	1		2	5:NA=91650.0
036	12712036	MSD	QC277583	97809	Water	27-DEC-2004 15:44	2.0	1.0	1		2	5:NA=92700.0
037	12712037	SAMPLE	176774-002	97809	Filtra	27-DEC-2004 15:50	1.0	1.0			2	4:MG=344300
038	12712038	X	QC277668	97809	Water	27-DEC-2004 15:56	1.0	1.0			13 2	7:NA=185400
039	12712039	SAMPLE	176774-002	97809	Filtra	27-DEC-2004 16:02	1.0	1.0			2	4:MG=348100
040	12712040	X		97809	Water	27-DEC-2004 16:08	1.0	1.0			13 2	7:NA=183500

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226 14=04WS2319

Flags used: t=tune failure

Analyst: MW Date: 12/28/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54522026 Instrument: MET05 Agilent ICP-MS Begun: 27-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
042	12712042	BLANK	QC276725	97593	Filtra	27-DEC-2004 16:19	1.0	1.0			2	
044	12712044	CCV				27-DEC-2004 16:31	1.0	1.0			12 2	
046	12712046	CCB				27-DEC-2004 16:43	1.0	1.0			2	
047	12712047	SAMPLE	176705-015	97593	Filtra	27-DEC-2004 16:48	2.0	1.0			2	2:NA=27325.0
048	12712048	SAMPLE	176705-016	97593	Filtra	27-DEC-2004 16:54	20.0	1.0	1		2	1:MN=210.050
049	12712049	PDS	QC277622	97593	Filtra	27-DEC-2004 17:02	1.0	1.0			13 2	4:MG=55440.0
050	12712050	PDS	QC277668	97809	Water	27-DEC-2004 17:07	1.0	1.0	1		13 2	7:NA=182500
051	12712051	SAMPLE	176705-016	97593	Filtra	27-DEC-2004 17:13	40.0	1.0			2	
053	12712053	CCV				27-DEC-2004 17:25	1.0	1.0			12 2	
055	12712055	CCB				27-DEC-2004 17:36	1.0	1.0	1		2	
056	12712056	ICSAB				27-DEC-2004 17:42	1.0	1.0			11 2	13:CA=300300
058	12712058	SAMPLE	176742-001	97818	Water	27-DEC-2004 17:54	1.0	1.0			2	3:CA=25510.0
059	12712059	SAMPLE	176742-002	97818	Water	27-DEC-2004 18:00	1.0	1.0			2	1:NA=174800
060	12712060	SAMPLE	176742-003	97818	Water	27-DEC-2004 18:06	1.0	1.0			2	3:CA=30350.0
062	12712062	BLANK	QC276941	97646	Filtra	27-DEC-2004 18:17	1.0	1.0	1		2	
063	12712063	BS	QC276942	97646	Filtra	27-DEC-2004 18:23	1.0	1.0	1		2	
064	12712064	BSD	QC276943	97646	Filtra	27-DEC-2004 18:29	1.0	1.0	1		2	
066	12712066	BLANK	QC276941	97646	Filtra	27-DEC-2004 18:41	1.0	1.0	1		2	
067	12712067	MSS	176726-004	97646	Filtra	27-DEC-2004 18:47	1.0	1.0	4		2	4:NA=159000
068	12712068	SER	QC276946	97646	Filtra	27-DEC-2004 18:53	5.0	1.0			2	2:NA=33240.0
070	12712070	CCV				27-DEC-2004 19:04	1.0	1.0			12 2	
071	12712071	CCB				27-DEC-2004 19:10	1.0	1.0	2		2	
074	12712074	MSS	176726-004	97646	Filtra	27-DEC-2004 19:28	10.0	1.0			2	
075	12712075	SER	QC276946	97646	Filtra	27-DEC-2004 19:34	50.0	1.0	1		2	
076	12712076	MS	QC276944	97646	Filtra	27-DEC-2004 19:40	1.0	1.0	1	1	2	4:NA=170700
077	12712077	MSD	QC276945	97646	Filtra	27-DEC-2004 19:45	1.0	1.0	1	1	2	4:NA=165300
078	12712078	SAMPLE	176726-001	97646	Filtra	27-DEC-2004 19:51	1.0	1.0	5		2	5:CA=90220.0
079	12712079	SAMPLE	176726-002	97646	Filtra	27-DEC-2004 19:57	1.0	1.0	3		2	3:NA=74700.0
080	12712080	SAMPLE	176726-003	97646	Filtra	27-DEC-2004 20:03	1.0	1.0	2		2	2:MG=77350.0
081	12712081	SAMPLE	176726-005	97646	Filtra	27-DEC-2004 20:09	1.0	1.0	6		2	6:NA=341800

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226 14=04WS2319

Flags used: t=tune failure

Analyst: MW Date: 12/28/04

285

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54522026 Instrument: MET05 Agilent ICP-MS Begun: 27-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
082	12712082	SAMPLE	176726-006	97646	Filtra	27-DEC-2004 20:14	1.0	1.0	4	2	3:MG=248200
084	12712084	CCV				27-DEC-2004 20:26	1.0	1.0		12 2	
086	12712086	CCB				27-DEC-2004 20:38	1.0	1.0		2	
088	12712088	SAMPLE	176726-007	97646	Filtra	27-DEC-2004 20:50	1.0	1.0	4	2	3:NA=65270.0
089	12712089	SAMPLE	176726-008	97646	Filtra	27-DEC-2004 20:55	1.0	1.0	4	2	3:NA=66730.0
090	12712090	SAMPLE	176728-001	97646	Filtra	27-DEC-2004 21:01	1.0	1.0	6	2	5:NA=100200
091	12712091	PDS	QC277689	97646	Filtra	27-DEC-2004 21:07	1.0	1.0	1	13 2	4:NA=176300
093	12712093	SAMPLE	176728-002	97646	Filtra	27-DEC-2004 21:19	1.0	1.0	6	2	5:MG=89490.0
094	12712094	SAMPLE	176728-001	97646	Filtra	27-DEC-2004 21:25	1.0	1.0	6	2	5:NA=99420.0
095	12712095	SAMPLE	176723-001	97646	Filtra	27-DEC-2004 21:30	1.0	1.0	3	2	2:MG=122100
096	12712096	SAMPLE	176723-002	97646	Filtra	27-DEC-2004 21:36	1.0	1.0	3	2	2:MG=137700
097	12712097	SAMPLE	176723-003	97646	Filtra	27-DEC-2004 21:42	1.0	1.0	3	2	2:MG=139000
098	12712098	SAMPLE	176723-001	97646	Filtra	27-DEC-2004 21:48	1.0	1.0	3	2	2:MG=120600
106	12712106	CCV				27-DEC-2004 22:35	1.0	1.0	1	14 2	
108	12712108	CCB				27-DEC-2004 22:46	1.0	1.0		2	
110	12712110	SAMPLE	176723-004	97646	Filtra	27-DEC-2004 22:58	1.0	1.0	1	2	4:NA=179400
111	12712111	SAMPLE	176723-005	97646	Filtra	27-DEC-2004 23:04	1.0	1.0		2	4:NA=97530.0
112	12712112	SAMPLE	176723-006	97646	Filtra	27-DEC-2004 23:10	1.0	1.0		2	4:NA=147400
113	12712113	SAMPLE	176723-008	97646	Filtra	27-DEC-2004 23:16	1.0	1.0		2	3:NA=75800.0
114	12712114	SAMPLE	176723-009	97646	Filtra	27-DEC-2004 23:21	1.0	1.0		2	
115	12712115	SAMPLE	176736-001	97646	Water	27-DEC-2004 23:27	1.0	1.0	3	2	7:MG=179800
116	12712116	SAMPLE	176736-002	97646	Water	27-DEC-2004 23:33	1.0	1.0	2	2	6:NA=290700
117	12712117	SAMPLE	176726-001	97646	Filtra	27-DEC-2004 23:39	10.0	1.0	2	2	1:MN=778.600
118	12712118	SAMPLE	176726-002	97646	Filtra	27-DEC-2004 23:45	5.0	1.0	1	2	
121	12712121	CCV				28-DEC-2004 00:03	1.0	1.0	1	14 2	
123	12712123	CCB				28-DEC-2004 00:14	1.0	1.0		2	
124	12712124	X	rinse			28-DEC-2004 00:20	1.0			2	
125	12712125	TUN →	failed			28-DEC-2004 00:26	1.0	1.0	4	1 t	
126	12712126	SAMPLE	176726-005	97646	Filtra	28-DEC-2004 00:31	25.0	1.0	22	2 t	1:MN=667.200
127	12712127	SAMPLE	176726-005	97646	Filtra	28-DEC-2004 00:36	100.0	1.0	22	2 t	

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226 14=04WS2319

Flags used: t=tune failure

Analyst: MW Date: 12/28/04

286

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54522026 Instrument: MET05 Agilent ICP-MS Begun: 27-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
128	12712128	SAMPLE	176726-006	97646	Filtra	28-DEC-2004 00:42	20.0	1.0	22	2 t	
129	12712129	SAMPLE	176726-007	97646	Filtra	28-DEC-2004 00:48	5.0	1.0	22	2 t	
130	12712130	SAMPLE	176726-008	97646	Filtra	28-DEC-2004 00:54	5.0	1.0	22	2 t	
131	12712131	SAMPLE	176728-001	97646	Filtra	28-DEC-2004 01:00	10.0	1.0	22	2 t	
132	12712132	SAMPLE	176728-002	97646	Filtra	28-DEC-2004 01:06	20.0	1.0	22	2 t	
133	12712133	SAMPLE	176723-001	97646	Filtra	28-DEC-2004 01:12	10.0	1.0	22	2 t	
134	12712134	SAMPLE	176723-002	97646	Filtra	28-DEC-2004 01:18	10.0	1.0	22	2 t	
135	12712135	SAMPLE	176723-003	97646	Filtra	28-DEC-2004 01:24	10.0	1.0	22	2 t	
137	12712137	CCV				28-DEC-2004 01:35	1.0	1.0	23	14 2 t	
139	12712139	CCB				28-DEC-2004 01:47	1.0	1.0	23	2 t	
142	12712142	ICSAB				28-DEC-2004 02:04	1.0	1.0	18	11 2 t	12:CA=292700
144	12712144	CCV				28-DEC-2004 02:16	1.0	1.0	23	14 2 t	
146	12712146	CCB				28-DEC-2004 02:28	1.0	1.0	23	2 t	

287

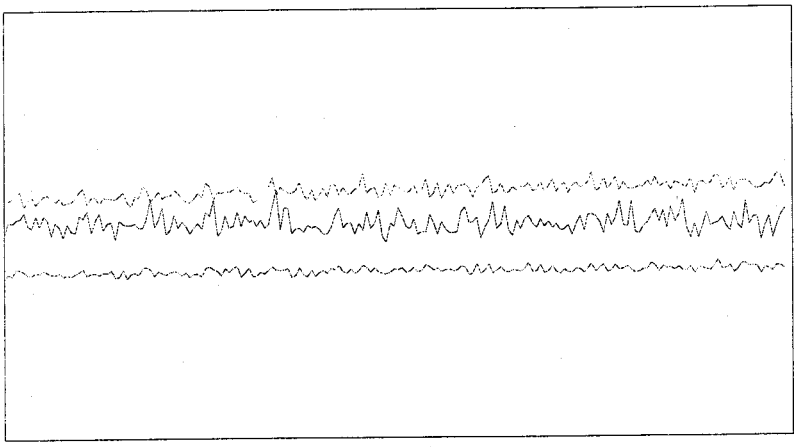
Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318 13=04SS226 14=04WS2319

Flags used: t=tune failure

Analyst: MW Date: 12/28/04

Tune Report

Tune File : ATUNE.U



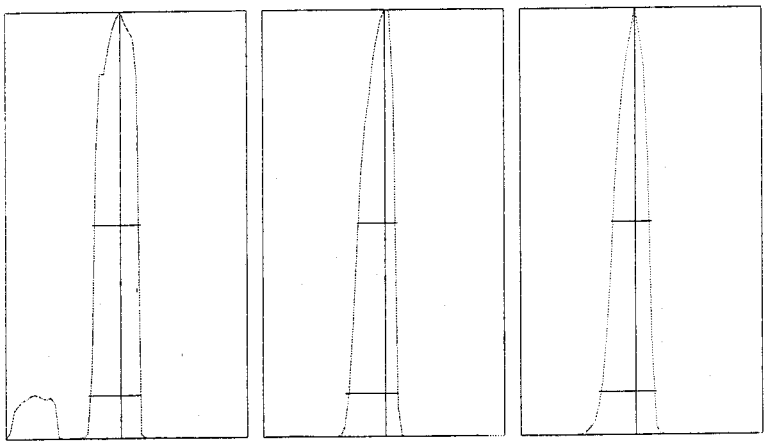
m/z:	7	89	205
Range:	20,000	50,000	50,000
Count:	10,622	19,520	28,984
Mean:	10046.8	19546.7	28918.8
RSD%:	4.31	1.84	2.62
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.54%
Doubly Charged:	70/140	0.91%

Background:

m/z:	7	89	205
Cps:	82.2	41.2	37.6



m/z:	7	89	205
Height:	10,436	20,138	31,642
Axis:	6.95	89.05	204.95
W-50%:	0.60	0.50	0.50
W-10%:	0.6500	0.6500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1330 W	Extract 1:	-130 V	AMU Gain:	128
RF Matching:	1.68 V	Extract 2:	-46 V	AMU Offset:	130
Smpl Depth:	7.9 mm	Einzel 1,3:	-126 V	Axis Gain:	1.0003
Torch-H:	1.1 mm	Einzel 2:	16 V	Axis Offset:	-0.02
Torch-V:	0.1 mm	Omega Bias:	-68 V	QP Bias:	0 V
Carrier Gas:	1.03 L/min	Omega (+):	3 V		
Makeup Gas:	0 L/min	Omega (-):	2 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	2 V	Discriminator:	9.2 mV
PeriPump1:	0.1 rps	Plate Bias:	0 V	Analog HV:	1840 V
PeriPump2:	--- rps			Pulse HV:	1400 V
S/C Temp:	2 degC				

Generated : Dec 28, 2004 10:17:29
Printed : Dec 28, 2004 10:17:36

P/A Factor Tuning Report

Acquired:Dec 28 2004 10:27 am

Mass[amu]	Element	P/A Factor
6	Li	0.066043
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076800
26	Mg	0.076388
27	Al	0.074708
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.076167
45	Sc	0.076175
51	V	Sensitivity too low
52	Cr	Sensitivity too low
53	Cr	Sensitivity too low
54	Fe	0.074050
55	Mn	Sensitivity too low
57	Fe	0.073178
59	Co	Sensitivity too low
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.071402
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	Sensitivity too low
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.067227
118	(In)	Sensitivity too low
121	Sb	Sensitivity too low
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.066678
166	Er	Sensitivity too low

205	Tl	Sensitivity too low
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	Sensitivity too low
209	Bi	0.062364
232	Th	Sensitivity too low
238	U	Sensitivity too low

===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

P/A Factor Tuning Report

Acquired:Dec 28 2004 10:32 am

Mass[amu]	Element	P/A Factor
6	Li	0.066081
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	0.076800
26	Mg	0.076388
27	Al	0.076798
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.078747
45	Sc	0.077978
51	V	0.077145
52	Cr	0.076027
53	Cr	Sensitivity too low
54	Fe	0.075740
55	Mn	0.076153
57	Fe	0.075841
59	Co	0.074068
60	Ni	Sensitivity too low
63	Cu	Sensitivity too low
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.072677
95	Mo	Sensitivity too low
98	Mo	Sensitivity too low
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.067508
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.068683
118	(In)	0.068929
121	Sb	0.068598
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.068310
166	Er	Sensitivity too low

205	Tl	0.064028
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.063879
209	Bi	0.064198
232	Th	0.064959
238	U	0.065372

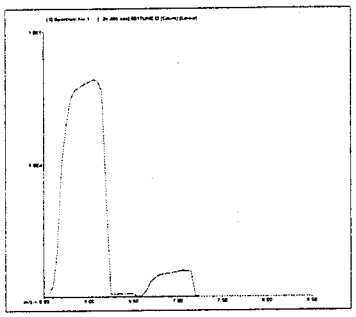
===Detector Parameters===
Discriminator: 9.2 mV
Analog HV: 1840 V
Pulse HV: 1400 V

6020 QC Tune Report

Data File:	C:\ICPCHEM\1\DATA\04L2812a.B\001TUNE.D
Date Acquired:	Dec 28 2004 12:13 pm
Acq. Method:	TN6020.M
Operator:	
Sample Name:	tun,04ws2314
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

Element	Actual	Required	Flag
7 Li	0.51	5.00	
59 Co	0.75	5.00	
115 In	0.93	5.00	
205 Tl	1.64	5.00	



7 Li

Mass Calib.

Actual: 7.10

Required: 6.90 - 7.10

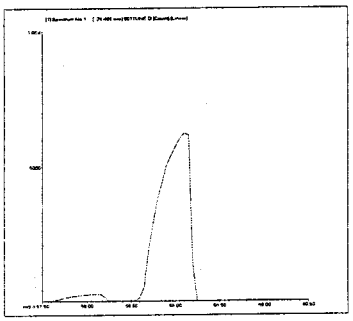
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



59 Co

Mass Calib.

Actual: 59.10

Required: 58.90 - 59.10

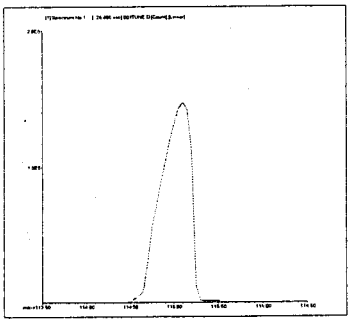
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



115 In

Mass Calib.

Actual: 115.10

Required: 114.90 - 115.10

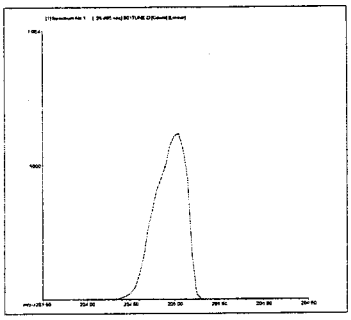
Flag:

Peak Width

Actual: 0.50

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 205.05

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2812a.B\002BLNK.D\002BLNK.D#
Date Acquired:	Dec 28 2004 12:18 pm
Acq. Method:	60200111.M
Operator:	
Sample Name:	rinse
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update:	Dec 28 2004 11:36 am
Sample Type:	6-Blank
Dilution Factor:	1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.01238	ppb	176.74	0.01238	1.00	
23 Na	-3.57	ppb	43.03	-3.57	1.00	
26 Mg	2.349	ppb	20.09	2.349	1.00	
27 Al	1.786	ppb	26.53	1.786	1.00	
39 K	0.1429	ppb	1326.10	0.1429	1.00	
44 Ca	-10.23	ppb	24.00	-10.23	1.00	
51 V	0.02795	ppb	180.82	0.02795	1.00	
52 Cr	0.005926	ppb	146.56	0.005926	1.00	
55 Mn	-0.001641	ppb	380.56	-0.001641	1.00	
57 Fe	5.395	ppb	28.49	5.395	1.00	
59 Co	0.007942	ppb	50.57	0.007942	1.00	
60 Ni	-0.01849	ppb	197.62	-0.01849	1.00	
65 Cu	-0.03942	ppb	112.56	-0.03942	1.00	
66 Zn	-0.04144	ppb	147.32	-0.04144	1.00	
75 As	-0.7922	ppb	55.58	-0.7922	1.00	
82 Se	-7.004	ppb	62.65	-7.004	1.00	
95 Mo	0.05589	ppb	91.52	0.05589	1.00	
109 Ag	0.001133	ppb	204.24	0.001133	1.00	
111 Cd	-0.1211	ppb	74.54	-0.1211	1.00	
121 Sb	0.01645	ppb	47.37	0.01645	1.00	
137 Ba	0.01319	ppb	107.51	0.01319	1.00	
205 Tl	0.0659	ppb	35.40	0.0659	1.00	
208 Pb	-0.01357	ppb	24.91	-0.01357	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	824828.94	2.33	---	#VALUE!	30 - 200	
45 Sc	977117.56	1.22	---	#VALUE!	30 - 200	
72 Ge	169260.22	1.19	---	#VALUE!	30 - 200	

115 In	1301438.90	0.39	---	#VALUE!	30 - 200
209 Bi	1128891.80	1.10	---	#VALUE!	30 - 200

ISTD Ref File : ---

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Fail
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2812a.B\003CAL
Date Acquired:	Dec 28 2004 12:24 pm
Operator:	
Sample Name:	std-blk
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 28 2004 11:36 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	828910.00	A	12200.00	1.47
9	Be	122.22	P	39.49	32.31
23	Na	157032.20	P	5862.00	3.73
26	Mg	1445.56	P	161.40	11.17
27	Al	11982.22	P	417.70	3.49
39	K	797343.19	A	6099.00	0.76
44	Ca	4063.21	P	188.70	4.64
45	Sc	967031.50	A	12070.00	1.25
51	V	1712.94	P	638.40	37.27
52	Cr	2944.44	P	125.10	4.25
55	Mn	716.67	P	40.55	5.66
57	Fe	5877.78	P	138.30	2.35
59	Co	232.22	P	25.02	10.77
60	Ni	171.11	P	35.64	20.83
65	Cu	647.77	P	39.77	6.14
66	Zn	978.90	P	15.03	1.54
72	Ge	165848.70	P	2405.00	1.45
75	As	-1251.10	P	645.00	51.55
82	Se	1823.30	P	324.80	17.81
95	Mo	275.56	P	28.35	10.29
109	Ag	120.00	P	28.48	23.73
111	Cd	270.35	P	30.80	11.39
115	In	1289542.00	A	8999.00	0.70
121	Sb	188.89	P	10.18	5.39
137	Ba	158.89	P	22.19	13.97
205	Tl	2621.11	P	92.52	3.53
208	Pb	662.22	P	29.88	4.51
209	Bi	1116417.00	A	8479.00	0.76
232	Th	334.44	P	20.09	6.01
238	U	98.89	P	10.18	10.29

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\004CALI.D\004CALI.D#
Date Acquired: Dec 28 2004 12:29 pm
Operator:
Sample Name: cal,04ws2310
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:26 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	821098.81	A	10360.00	1.26
9	Be	500.00	P	49.10	9.82
23	Na	311938.91	P	3653.00	1.17
26	Mg	17333.33	P	511.60	2.95
27	Al	8675.55	P	236.00	2.72
39	K	1002260.00	A	25220.00	2.52
44	Ca	8386.72	P	486.50	5.80
45	Sc	980741.13	A	9334.00	0.95
51	V	4710.03	P	518.40	11.01
52	Cr	5281.11	P	108.60	2.06
55	Mn	2898.89	P	29.12	1.00
57	Fe	9323.33	P	442.40	4.75
59	Co	1718.89	P	50.15	2.92
60	Ni	504.44	P	21.69	4.30
65	Cu	1137.70	P	93.95	8.26
66	Zn	1525.64	P	66.70	4.37
72	Ge	168971.30	P	2801.00	1.66
75	As	-817.68	P	82.69	10.11
82	Se	1988.75	P	141.10	7.09
95	Mo	732.22	P	53.47	7.30
109	Ag	1197.78	P	39.77	3.32
111	Cd	515.83	P	41.25	8.00
115	In	1281720.00	A	14520.00	1.13
121	Sb	1181.11	P	54.30	4.60
137	Ba	475.56	P	69.47	14.61
205	Tl	4096.67	P	170.10	4.15
208	Pb	3230.00	P	165.00	5.11
209	Bi	1102203.00	A	3655.00	0.33
232	Th	2394.44	P	130.50	5.45
238	U	2943.33	P	23.09	0.78

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	821098.75	1.26	828909.94	99.1	30 - 200	
45 Sc	980741.13	0.95	967031.50	101.4	30 - 200	
72 Ge	168971.33	1.66	165848.67	101.9	30 - 200	
115 In	1281719.50	1.13	1289542.40	99.4	30 - 200	
209 Bi	1102202.60	0.33	1116416.90	98.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**

ISTD: **Pass**

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\04L2812a.B\005CALI.D\005CALI.D#
Date Acquired:	Dec 28 2004 12:34 pm
Operator:	
Sample Name:	cs2,04ws2311
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\60200111.M
Calibration File:	C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update:	Dec 28 2004 00:31 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	800648.19	A	20290.00	2.53
9 Be	854.44	P	29.12	3.41
23 Na	492238.91	P	7425.00	1.51
26 Mg	33622.22	P	696.30	2.07
27 Al	9971.11	P	298.80	3.00
39 K	1195768.00	A	22760.00	1.90
44 Ca	13170.00	P	440.60	3.35
45 Sc	968228.63	A	3422.00	0.35
51 V	6324.82	P	637.90	10.09
52 Cr	6800.00	P	303.80	4.47
55 Mn	4772.22	P	228.50	4.79
57 Fe	13412.22	P	384.20	2.86
59 Co	3173.33	P	25.17	0.79
60 Ni	910.00	P	17.32	1.90
65 Cu	1502.08	P	44.39	2.96
66 Zn	3761.28	P	23.41	0.62
72 Ge	166098.91	P	3507.00	2.11
75 As	-348.28	P	700.60	201.16
82 Se	1970.74	P	255.50	12.97
95 Mo	1132.22	P	58.91	5.20
109 Ag	2122.22	P	39.77	1.87
111 Cd	719.32	P	111.50	15.50
115 In	1268414.00	A	18470.00	1.46
121 Sb	1984.44	P	85.66	4.32
137 Ba	830.00	P	27.28	3.29
205 Tl	5200.00	P	218.70	4.21
208 Pb	6143.33	P	179.50	2.92
209 Bi	1101010.00	A	12520.00	1.14
232 Th	4007.78	P	48.80	1.22
238 U	5440.00	P	288.40	5.30

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	800648.19	2.53	828909.94	96.6	30 - 200	
45 Sc	968228.63	0.35	967031.50	100.1	30 - 200	
72 Ge	166098.89	2.11	165848.67	100.2	30 - 200	
115 In	1268413.60	1.46	1289542.40	98.4	30 - 200	
209 Bi	1101009.60	1.14	1116416.90	98.6	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\006CALI.D\006CALI.D#
Date Acquired: Dec 28 2004 12:40 pm
Operator:
Sample Name: cs3,04ws2312
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	813334.88	A	15310.00	1.88
9	Be	1620.00	P	37.86	2.34
23	Na	922291.81	A	9928.00	1.08
26	Mg	65898.88	P	1772.00	2.69
27	Al	11814.44	P	125.30	1.06
39	K	1494430.00	A	24600.00	1.65
44	Ca	22013.16	P	531.50	2.41
45	Sc	957829.31	A	8920.00	0.93
51	V	9848.79	P	763.50	7.75
52	Cr	9630.00	P	268.50	2.79
55	Mn	8143.33	P	115.30	1.42
57	Fe	20492.22	P	537.70	2.62
59	Co	5975.56	P	138.30	2.31
60	Ni	1464.44	P	85.27	5.82
65	Cu	2211.93	P	123.70	5.59
66	Zn	2807.00	P	117.90	4.20
72	Ge	165898.00	P	2507.00	1.51
75	As	-378.06	P	351.40	92.95
82	Se	1856.04	P	172.70	9.30
95	Mo	1911.11	P	115.50	6.04
109	Ag	4150.00	P	24.04	0.58
111	Cd	1223.53	P	17.25	1.41
115	In	1258979.00	A	3722.00	0.30
121	Sb	3837.78	P	98.34	2.56
137	Ba	1351.11	P	22.69	1.68
205	Tl	7816.67	P	215.30	2.75
208	Pb	11112.22	P	403.60	3.63
209	Bi	1115020.00	A	9593.00	0.86
232	Th	7450.00	P	266.90	3.58
238	U	11093.33	P	426.80	3.85

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	813334.94	1.88	828909.94	98.1	30 - 200	
45 Sc	957829.31	0.93	967031.50	99.0	30 - 200	
72 Ge	165898.00	1.51	165848.67	100.0	30 - 200	
115 In	1258978.80	0.30	1289542.40	97.6	30 - 200	
209 Bi	1115020.10	0.86	1116416.90	99.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\007CALI.D\007CALI.D#
Date Acquired: Dec 28 2004 12:45 pm
Operator:
Sample Name: cs4,04ws2313
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:41 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	809339.38	A	7674.00	0.95
9 Be	14532.22	P	376.70	2.59
23 Na	7517995.00	A	81160.00	1.08
26 Mg	711142.81	A	11800.00	1.66
27 Al	55920.00	P	861.10	1.54
39 K	7013301.00	A	92610.00	1.32
44 Ca	173299.59	P	5230.00	3.02
45 Sc	937655.69	A	18360.00	1.96
51 V	71712.26	P	2111.00	2.94
52 Cr	60536.66	P	1641.00	2.71
55 Mn	73623.33	P	1306.00	1.77
57 Fe	150601.09	P	3746.00	2.49
59 Co	58207.78	P	1316.00	2.26
60 Ni	12710.00	P	533.90	4.20
65 Cu	15350.40	P	457.50	2.98
66 Zn	9599.11	P	414.00	4.31
72 Ge	164297.80	P	3331.00	2.03
75 As	7642.21	P	416.00	5.44
82 Se	2383.71	P	144.50	6.06
95 Mo	17818.89	P	315.20	1.77
109 Ag	40477.78	P	990.40	2.45
111 Cd	8972.27	P	257.80	2.87
115 In	1251724.00	A	15420.00	1.23
121 Sb	34860.00	P	647.70	1.86
137 Ba	11735.56	P	589.00	5.02
205 Tl	65103.33	P	1623.00	2.49
208 Pb	107172.20	P	1877.00	1.75
209 Bi	1122333.00	A	17860.00	1.59
232 Th	72802.22	P	4744.00	6.52
238 U	112814.40	P	3292.00	2.92

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	809339.38	0.95	828909.94	97.6	30 - 200	
45 Sc	937655.69	1.96	967031.50	97.0	30 - 200	
72 Ge	164297.78	2.03	165848.67	99.1	30 - 200	
115 In	1251723.90	1.23	1289542.40	97.1	30 - 200	
209 Bi	1122332.50	1.59	1116416.90	100.5	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\008CALI.D\008CALI.D#
Date Acquired: Dec 28 2004 12:50 pm
Operator:
Sample Name: cs5,04ws2308
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:47 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	821422.81	A	16960.00	2.06
9	Be	144403.30	P	3160.00	2.19
23	Na	73814408.00	A	1096000.00	1.48
26	Mg	6780954.00	A	169300.00	2.50
27	Al	498966.59	P	15230.00	3.05
39	K	61353312.00	A	1309000.00	2.13
44	Ca	1885757.00	A	37770.00	2.00
45	Sc	971149.13	A	12780.00	1.32
51	V	794131.00	A	28830.00	3.63
52	Cr	620464.38	M	47640.00	7.68
55	Mn	816760.63	A	8649.00	1.06
57	Fe	1630384.00	A	6426.00	0.39
59	Co	643514.88	A	8440.00	1.31
60	Ni	127324.40	P	4293.00	3.37
65	Cu	144463.30	P	5789.00	4.01
66	Zn	84150.57	P	2572.00	3.06
72	Ge	171843.09	P	5157.00	3.00
75	As	88119.11	P	2682.00	3.04
82	Se	7876.88	P	234.90	2.98
95	Mo	179396.70	P	4122.00	2.30
109	Ag	400190.00	P	9035.00	2.26
111	Cd	87456.67	P	2224.00	2.54
115	In	1253967.00	A	6587.00	0.53
121	Sb	349294.41	P	9046.00	2.59
137	Ba	116571.10	P	2329.00	2.00
205	Tl	873362.19	A	9437.00	1.08
208	Pb	1114920.00	A	14890.00	1.34
209	Bi	1091082.00	A	9581.00	0.88
232	Th	988701.81	A	20510.00	2.07
238	U	1312285.00	A	9164.00	0.70

ISTD Elements

C:\ICPCHEM\1\DATA\04L2812a.B\008CALI.D\008CALI.D#

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	821422.75	2.06	828909.94	99.1	30 - 200	
45 Sc	971149.13	1.32	967031.50	100.4	30 - 200	
72 Ge	171843.11	3.00	165848.67	103.6	30 - 200	
115 In	1253967.40	0.53	1289542.40	97.2	30 - 200	
209 Bi	1091081.90	0.88	1116416.90	97.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\04L2812a.B\009CALI.D\009CALI.D#
Date Acquired: Dec 28 2004 12:55 pm
Operator:
Sample Name: cs6,04ws2309
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Dec 28 2004 00:52 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	803089.88	A	6178.00	0.77
9	Be	287067.81	P	6675.00	2.33
23	Na	144477100.00	A	1663000.00	1.15
26	Mg	13206350.00	A	196400.00	1.49
27	Al	1071533.00	A	12440.00	1.16
39	K	120755100.00	A	1098000.00	0.91
44	Ca	3651775.00	A	27740.00	0.76
45	Sc	955695.19	A	3145.00	0.33
51	V	1547990.00	A	12360.00	0.80
52	Cr	1236379.00	A	8777.00	0.71
55	Mn	1559377.00	A	12290.00	0.79
57	Fe	3088467.00	A	19740.00	0.64
59	Co	1248580.00	A	9553.00	0.77
60	Ni	248065.50	P	5735.00	2.31
65	Cu	281627.81	P	7137.00	2.53
66	Zn	163254.91	P	2218.00	1.36
72	Ge	171269.09	P	2604.00	1.52
75	As	177129.80	P	2544.00	1.44
82	Se	13553.48	P	23.20	0.17
95	Mo	358694.41	P	5750.00	1.60
109	Ag	833201.19	A	6293.00	0.76
111	Cd	170413.00	P	2455.00	1.44
115	In	1210788.00	A	2343.00	0.19
121	Sb	747268.31	A	2580.00	0.35
137	Ba	228758.91	P	4675.00	2.04
205	Tl	1585720.00	A	14220.00	0.90
208	Pb	2192414.00	A	37180.00	1.70
209	Bi	1038809.00	A	11140.00	1.07
232	Th	2450059.00	A	52470.00	2.14
238	U	2484031.00	A	29270.00	1.18

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	803089.94	0.77	828909.94	96.9	30 - 200	
45 Sc	955695.19	0.33	967031.50	98.8	30 - 200	
72 Ge	171269.11	1.52	165848.67	103.3	30 - 200	
115 In	1210787.80	0.19	1289542.40	93.9	30 - 200	
209 Bi	1038809.30	1.07	1116416.90	93.0	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\04L2812a.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Dec 28, 2004 13:01
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\0412812a.b\003calb.d\	003calb.d#	Dec 28 2004 12:24 pm
2	...hem\1\data\0412812a.b\004cali.d\	004cali.d#	Dec 28 2004 12:29 pm
3	...hem\1\data\0412812a.b\005cali.d\	005cali.d#	Dec 28 2004 12:34 pm
4	...hem\1\data\0412812a.b\006cali.d\	006cali.d#	Dec 28 2004 12:40 pm
5	...hem\1\data\0412812a.b\007cali.d\	007cali.d#	Dec 28 2004 12:45 pm
6	...hem\1\data\0412812a.b\008cali.d\	008cali.d#	Dec 28 2004 12:50 pm
7	...hem\1\data\0412812a.b\009cali.d\	009cali.d#	Dec 28 2004 12:55 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 8.909E-2*X -3.379E-3	1.0000	ppb
Na	23	45	Y = 3.776E-1*X +1.340E+1	1.0000	ppb
Mg	25	45	Y = 3.080E-2*X +2.257E-1	1.0000	ppb
Mg	26	45	Y = 3.455E-2*X +1.135E+0	1.0000	ppb
Al	27	45	Y = 2.747E-1*X +1.498E-1	0.9990	ppb
K	39	45	Y = 3.131E-1*X +4.619E+1	1.0000	ppb
Ca	43	45	Y = 5.587E-4*X -1.591E-3	0.9999	ppb
Ca	44	45	Y = 9.569E-3*X +2.218E-1	1.0000	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.265E+0*X +7.821E-1	0.9999	ppb
Cr	52	72	Y = 1.800E+0*X +8.427E-1	1.0000	ppb
Cr	53	72	Y = 1.886E-1*X +1.855E+0	0.9995	ppb
Fe	54	72	Y = 1.104E-1*X +5.788E+0	0.9999	ppb
Mn	55	72	Y = 2.291E+0*X +8.813E-1	0.9998	ppb
Fe	57	72	Y = 4.533E-2*X +3.667E+0	0.9997	ppb
Co	59	72	Y = 1.831E+0*X +3.095E-1	0.9999	ppb
Ni	60	72	Y = 3.628E-1*X +1.639E-1	0.9999	ppb
Cu	63	72	Y = 9.465E-1*X -4.804E-1	0.9991	ppb
Cu	65	72	Y = 4.106E-1*X +3.861E-1	1.0000	ppb
Zn	66	72	Y = 2.357E-1*X +6.549E-1	0.9999	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.601E-1*X -3.216E-1	1.0000	ppb
(As)	77	72	Y = 1.291E-2*X +3.641E-1	0.9969	ppb
Se	82	72	Y = 1.704E-2*X +5.614E-1	0.9999	ppb
(As)	83	72	Y = 5.541E-4*X +7.138E+0	0.4573	ppb
(Ca)	88	72	Y = 8.589E-3*X +6.331E-2	0.9998	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 5.228E-1*X +8.167E-2	1.0000	ppb
Mo	98	72	Y = 8.511E-1*X -1.387E-1	0.9999	ppb
(Mo)	99	72	Y = 1.050E-5*X +2.070E-2	0.4936	ppb
(Cd)	106	72	Y = 2.228E-2*X +1.264E-1	0.9999	ppb
(Cd)	108	72	Y = 1.655E-2*X +2.604E-2	0.9999	ppb
Ag	109	72	Y = 1.208E+0*X -3.277E-1	0.9998	ppb
Cd	111	72	Y = 2.489E-1*X +1.634E-1	1.0000	ppb
Cd	114	72	Y = 5.728E-1*X +2.175E-1	0.9999	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.521E-1*X -1.373E-1	0.9990	ppb
Ba	135	115	Y = 2.695E-2*X -1.301E-3	0.9999	ppb
Ba	137	115	Y = 4.709E-2*X -6.637E-4	1.0000	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 3.852E-1*X -6.205E-3	0.9996	ppb
(Pb)	206	209	Y = 1.310E-1*X -1.626E-1	0.9981	ppb
(Pb)	207	209	Y = 1.059E-1*X -1.477E-2	1.0000	ppb
Pb	208	209	Y = 5.255E-1*X -2.117E-1	0.9999	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 5.741E-1*X -1.970E+0	0.9938	ppb
U	238	209	Y = 5.995E-1*X -1.823E-1	1.0000	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 54523453010 Filename : 12812010 Injected : 28-DEC-2004 13:00
Caltype :

Standards: 04WS2317, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	100.0000	94.04000	ug/L	-6	10
Antimony	100.0000	94.64000	ug/L	-5	10
Arsenic	100.0000	100.7000	ug/L	1	10
Barium	100.0000	99.47000	ug/L	-1	10
Beryllium	100.0000	97.82000	ug/L	-2	10
Cadmium	100.0000	102.0000	ug/L	2	10
Calcium	10000.00	10240.00	ug/L	2	10
Chromium	100.0000	101.3000	ug/L	1	10
Cobalt	100.0000	102.2000	ug/L	2	10
Copper	100.0000	102.0000	ug/L	2	10
Iron	10000.00	10380.00	ug/L	4	10
Lead	100.0000	98.93000	ug/L	-1	10
Magnesium	10000.00	10130.00	ug/L	1	10
Manganese	100.0000	102.5000	ug/L	3	10
Molybdenum	100.0000	101.5000	ug/L	2	10
Nickel	100.0000	103.4000	ug/L	3	10
Potassium	10000.00	10160.00	ug/L	2	10
Selenium	100.0000	100.8000	ug/L	1	10
Silver	100.0000	97.22000	ug/L	-3	10
Sodium	10000.00	10120.00	ug/L	1	10
Thallium	100.0000	101.8000	ug/L	2	10
Vanadium	100.0000	101.9000	ug/L	2	10
Zinc	100.0000	104.0000	ug/L	4	10

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	820716	-0.99
Scandium	967032	967066	0.00
Germanium	165849	170000	2.50
Indium	1289542	1234476	-4.27
Bismuth	1116417	1074041	-3.80
Terbium	1758047	1733380	-1.40

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453029
Run Name :
Filename : 12812029
IDF : 1.0
Injected : 28-DEC-2004 14:51
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2645	100.0000	95.04000	ug/L	-5	10	
Antimony	0.1469	100.0000	97.13000	ug/L	-3	10	
Arsenic	0.2542	100.0000	99.05000	ug/L	-1	10	
Barium	0.0448	100.0000	95.20000	ug/L	-5	10	
Beryllium	0.0819	100.0000	91.90000	ug/L	-8	10	
Cadmium	0.2738	100.0000	109.4000	ug/L	9	10	
Calcium	0.0095	10000.00	9932.000	ug/L	-1	10	
Chromium	1.8273	100.0000	101.1000	ug/L	1	10	
Cobalt	1.7878	100.0000	97.54000	ug/L	-2	10	
Copper	0.4275	100.0000	103.3000	ug/L	3	10	
Iron	0.0503	10000.00	11040.00	ug/L	10	10	
Lead	0.5033	100.0000	96.00000	ug/L	-4	10	
Magnesium	0.0357	10000.00	10320.00	ug/L	3	10	
Manganese	2.5230	100.0000	109.8000	ug/L	10	10	
Molybdenum	0.5460	100.0000	104.3000	ug/L	4	10	
Nickel	0.3892	100.0000	106.9000	ug/L	7	10	
Potassium	0.3077	10000.00	9685.000	ug/L	-3	10	
Selenium	0.0230	100.0000	102.2000	ug/L	2	10	
Silver	1.2511	100.0000	103.7000	ug/L	4	10	
Sodium	0.3838	10000.00	10130.00	ug/L	1	10	
Thallium	0.3878	100.0000	100.6000	ug/L	1	10	
Vanadium	2.4445	100.0000	107.6000	ug/L	8	10	
Zinc	0.2423	100.0000	100.6000	ug/L	1	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	784958	-5.30
Scandium	967032	870829	-9.95
Germanium	165849	143457	-13.50
Indium	1289542	1164561	-9.69
Bismuth	1116417	1036254	-7.18
Terbium	1758047	1587033	-9.73

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453043

Run Name :
Filename : 12812043

IDF : 1.0
Injected : 28-DEC-2004 16:14
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2612	100.0000	93.83000	ug/L	-6	10	
Antimony	0.1476	100.0000	97.55000	ug/L	-2	10	
Arsenic	0.2562	100.0000	99.85000	ug/L	0	10	
Barium	0.0447	100.0000	94.94000	ug/L	-5	10	
Beryllium	0.0824	100.0000	92.47000	ug/L	-8	10	
Cadmium	0.2719	100.0000	108.7000	ug/L	9	10	
Calcium	0.0094	10000.00	9822.000	ug/L	-2	10	
Chromium	1.8116	100.0000	100.2000	ug/L	0	10	
Cobalt	1.7693	100.0000	96.53000	ug/L	-3	10	
Copper	0.4269	100.0000	103.2000	ug/L	3	10	
Iron	0.0497	10000.00	10890.00	ug/L	9	10	
Lead	0.4988	100.0000	95.14000	ug/L	-5	10	
Magnesium	0.0355	10000.00	10250.00	ug/L	3	10	
Manganese	2.5070	100.0000	109.1000	ug/L	9	10	
Molybdenum	0.5373	100.0000	102.6000	ug/L	3	10	
Nickel	0.3854	100.0000	105.9000	ug/L	6	10	
Potassium	0.3037	10000.00	9558.000	ug/L	-4	10	
Selenium	0.0229	100.0000	101.5000	ug/L	2	10	
Silver	1.2475	100.0000	103.4000	ug/L	3	10	
Sodium	0.3802	10000.00	10040.00	ug/L	0	10	
Thallium	0.3821	100.0000	99.10000	ug/L	-1	10	
Vanadium	2.4212	100.0000	106.6000	ug/L	7	10	
Zinc	0.2398	100.0000	99.56000	ug/L	0	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	787140	-5.04
Scandium	967032	888871	-8.08
Germanium	165849	145475	-12.28
Indium	1289542	1165119	-9.65
Bismuth	1116417	1023117	-8.36
Terbium	1758047	1579246	-10.17

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453063

Run Name :
Filename : 12812063

IDF : 1.0
Injected : 28-DEC-2004 18:11
Caltype :

Standards: 04WS2318, 01WS0352

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.2597	100.0000	93.28000	ug/L	-7	10	
Antimony	0.1416	100.0000	93.60000	ug/L	-6	10	
Arsenic	0.2520	100.0000	98.21000	ug/L	-2	10	
Barium	0.0442	100.0000	93.85000	ug/L	-6	10	
Beryllium	0.0816	100.0000	91.53000	ug/L	-8	10	
Cadmium	0.2640	100.0000	105.5000	ug/L	6	10	
Calcium	0.0095	10000.00	9918.000	ug/L	-1	10	
Chromium	1.7628	100.0000	97.48000	ug/L	-3	10	
Cobalt	1.7270	100.0000	94.22000	ug/L	-6	10	
Copper	0.4206	100.0000	101.7000	ug/L	2	10	
Iron	0.0484	10000.00	10610.00	ug/L	6	10	
Lead	0.4952	100.0000	94.44000	ug/L	-6	10	
Magnesium	0.0352	10000.00	10160.00	ug/L	2	10	
Manganese	2.4390	100.0000	106.2000	ug/L	6	10	
Molybdenum	0.5348	100.0000	102.1000	ug/L	2	10	
Nickel	0.3740	100.0000	102.8000	ug/L	3	10	
Potassium	0.3077	10000.00	9684.000	ug/L	-3	10	
Selenium	0.0222	100.0000	97.57000	ug/L	-2	10	
Silver	1.2020	100.0000	99.65000	ug/L	0	10	
Sodium	0.3786	10000.00	9996.000	ug/L	0	10	
Thallium	0.3833	100.0000	99.41000	ug/L	-1	10	
Vanadium	2.3642	100.0000	104.1000	ug/L	4	10	
Zinc	0.2371	100.0000	98.43000	ug/L	-2	10	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	805353	-2.84
Scandium	967032	904892	-6.43
Germanium	165849	151478	-8.66
Indium	1289542	1189862	-7.73
Bismuth	1116417	1038088	-7.02
Terbium	1758047	1617327	-8.00

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453003 Run Name: std-blk Injected: 28-DEC-2004 12:24
Filename: 12812003 Run Type: IB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	ND	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453012 Run Name:
Filename: 12812012 Run Type: ICB

Injected: 28-DEC-2004 13:12

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	50.00000	ug/L	<RL	
Antimony	[0.0700]	0.250000	ug/L	<RL	
Arsenic	ND	0.500000	ug/L	<RL	
Barium	ND	0.250000	ug/L	<RL	
Beryllium	ND	0.250000	ug/L	<RL	
Cadmium	ND	0.250000	ug/L	<RL	
Calcium	ND	50.00000	ug/L	<RL	
Chromium	[0.0613]	0.500000	ug/L	<RL	
Cobalt	ND	0.250000	ug/L	<RL	
Copper	ND	0.500000	ug/L	<RL	
Iron	ND	50.00000	ug/L	<RL	
Lead	ND	0.250000	ug/L	<RL	
Magnesium	ND	50.00000	ug/L	<RL	
Manganese	ND	0.250000	ug/L	<RL	
Molybdenum	ND	0.500000	ug/L	<RL	
Nickel	ND	0.250000	ug/L	<RL	
Potassium	ND	50.00000	ug/L	<RL	
Selenium	0.895000	0.500000	ug/L	<RL	ib ***
Silver	ND	0.250000	ug/L	<RL	
Sodium	ND	50.00000	ug/L	<RL	
Thallium	[0.3929]	0.500000	ug/L	<RL	
Vanadium	ND	1.000000	ug/L	<RL	
Zinc	ND	1.000000	ug/L	<RL	

ib=instrument blank
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453031 Run Name: Injected: 28-DEC-2004 15:03
Filename: 12812031 Run Type: CCB

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.1238]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	[0.0746]	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453045 Run Name:
Filename: 12812045 Run Type: CCB

Injected: 28-DEC-2004 16:26

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.0765]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	[0.1652]	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	ND	1.000000	ug/L	<RL

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453065 Run Name:
Filename: 12812065 Run Type: CCB

Injected: 28-DEC-2004 18:23

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	50.00000	ug/L	<RL
Antimony	[0.1067]	0.250000	ug/L	<RL
Arsenic	ND	0.500000	ug/L	<RL
Barium	ND	0.250000	ug/L	<RL
Beryllium	ND	0.250000	ug/L	<RL
Cadmium	ND	0.250000	ug/L	<RL
Calcium	ND	50.00000	ug/L	<RL
Chromium	ND	0.500000	ug/L	<RL
Cobalt	ND	0.250000	ug/L	<RL
Copper	ND	0.500000	ug/L	<RL
Iron	ND	50.00000	ug/L	<RL
Lead	ND	0.250000	ug/L	<RL
Magnesium	ND	50.00000	ug/L	<RL
Manganese	ND	0.250000	ug/L	<RL
Molybdenum	ND	0.500000	ug/L	<RL
Nickel	ND	0.250000	ug/L	<RL
Potassium	ND	50.00000	ug/L	<RL
Selenium	ND	0.500000	ug/L	<RL
Silver	ND	0.250000	ug/L	<RL
Sodium	ND	50.00000	ug/L	<RL
Thallium	ND	0.500000	ug/L	<RL
Vanadium	ND	1.000000	ug/L	<RL
Zinc	[0.1813]	1.000000	ug/L	<RL

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS
Seqnum: 54523453013 Run Name:
Filename: 12812013 Run Type: ICSA

Injected: 28-DEC-2004 13:18

Analyte	QuantAmt	RL	Units	Req Flags
Antimony	2.532000	0.250000	ug/L	<RL
Arsenic	0.764900	0.500000	ug/L	<RL
Barium	0.940700	0.250000	ug/L	<RL
Beryllium	[0.0905]	0.250000	ug/L	<RL
Cadmium	[0.1652]	0.250000	ug/L	<RL
Chromium	1.610000	0.500000	ug/L	<RL
Cobalt	2.562000	0.250000	ug/L	<RL
Copper	1.845000	0.500000	ug/L	<RL
Lead	1.383000	0.250000	ug/L	<RL
Manganese	1.043000	0.250000	ug/L	<RL
Nickel	2.422000	0.250000	ug/L	<RL
Selenium	2.338000	0.500000	ug/L	<RL
Silver	[0.1667]	0.250000	ug/L	<RL
Thallium	0.587100	0.500000	ug/L	<RL
Vanadium	[0.2138]	1.000000	ug/L	<RL
Zinc	3.987000	1.000000	ug/L	<RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	100000	98890	ug/L	99
Calcium	300000	307300	ug/L	102
Iron	250000	245500	ug/L	98
Magnesium	100000	101900	ug/L	102
Molybdenum	2000	2025	ug/L	101
Potassium	100000	101100	ug/L	101
Sodium	250000	242000	ug/L	97

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453014

Run Name :
Filename : 12812014

Injected : 28-DEC-2004 13:23
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	98630.00	ug/L	-1		
Arsenic	100.0000	110.9000	ug/L	11	20	
Cadmium	100.0000	97.65000	ug/L	-2	20	
Calcium	300000.0	300400.0	ug/L	0		
Chromium	200.0000	205.9000	ug/L	3	20	
Cobalt	200.0000	198.7000	ug/L	-1	20	
Copper	200.0000	200.2000	ug/L	0	20	
Iron	250000.0	238000.0	ug/L	-5		
Magnesium	100000.0	101800.0	ug/L	2		
Manganese	200.0000	203.7000	ug/L	2	20	
Molybdenum	2000.000	1989.000	ug/L	-1		
Nickel	200.0000	203.8000	ug/L	2	20	
Potassium	100000.0	99540.00	ug/L	0		
Selenium	100.0000	107.8000	ug/L	8	20	
Silver	50.00000	46.93000	ug/L	-6	20	
Sodium	250000.0	241200.0	ug/L	-4		
Vanadium	200.0000	207.5000	ug/L	4	20	
Zinc	100.0000	100.1000	ug/L	0	20	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	834475	0.67
Scandium	967032	1034432	6.97
Germanium	165849	186366	12.37
Indium	1289542	1188659	-7.82
Bismuth	1116417	939992	-15.80
Terbium	1758047	1771016	0.74

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 54523453070
Run Name :
Filename : 12812070
Injected : 28-DEC-2004 18:52
Caltype :

Standards: 04WS2316, 01WS0352

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	95750.00	ug/L	-4		
Arsenic	100.0000	103.6000	ug/L	4	20	
Cadmium	100.0000	95.00000	ug/L	-5	20	
Calcium	300000.0	288700.0	ug/L	-4		
Chromium	200.0000	203.2000	ug/L	2	20	
Cobalt	200.0000	191.3000	ug/L	-4	20	
Copper	200.0000	187.8000	ug/L	-6	20	
Iron	250000.0	236400.0	ug/L	-5		
Magnesium	100000.0	98400.00	ug/L	-2		
Manganese	200.0000	199.5000	ug/L	0	20	
Molybdenum	2000.000	2008.000	ug/L	0		
Nickel	200.0000	191.9000	ug/L	-4	20	
Potassium	100000.0	94750.00	ug/L	-5		
Selenium	100.0000	98.01000	ug/L	-2	20	
Silver	50.00000	45.55000	ug/L	-9	20	
Sodium	250000.0	232000.0	ug/L	-7		
Vanadium	200.0000	205.1000	ug/L	3	20	
Zinc	100.0000	96.85000	ug/L	-3	20	

ISTD (IB=12812003)	IB Abund	Abund	%Diff
Lithium	828910	746592	-9.93
Scandium	967032	910593	-5.84
Germanium	165849	159153	-4.04
Indium	1289542	1087815	-15.64
Bismuth	1116417	894839	-19.85
Terbium	1758047	1583617	-9.92

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54523453 Instrument: MET05 Agilent ICP-MS Begun: 28-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
001	12812001	TUN				28-DEC-2004 12:13	1.0	1.0		1	
003	12812003	IB	std-blk			28-DEC-2004 12:24	1.0	1.0		2	
004	12812004	ICAL	ca1			28-DEC-2004 12:29	1.0			3 2	
005	12812005	ICAL	cs2			28-DEC-2004 12:34	1.0			4 2	
006	12812006	ICAL	cs3			28-DEC-2004 12:40	1.0			5 2	
007	12812007	ICAL	cs4			28-DEC-2004 12:45	1.0			6 2	
008	12812008	ICAL	cs5			28-DEC-2004 12:50	1.0			7 2	
009	12812009	ICAL	cs6			28-DEC-2004 12:55	1.0			8 2	
010	12812010	ICV				28-DEC-2004 13:00	1.0	1.0		9 2	
012	12812012	ICB				28-DEC-2004 13:12	1.0	1.0	1	2	
013	12812013	ICSA				28-DEC-2004 13:18	1.0	1.0		10 2	7:CA=307300
014	12812014	ICSAB				28-DEC-2004 13:23	1.0	1.0		11 2	12:CA=300400
016	12812016	SAMPLE	176726-001	97646	Filtra	28-DEC-2004 13:35	100.0	1.0		2	
017	12812017	SAMPLE	176726-002	97646	Filtra	28-DEC-2004 13:41	5.0	1.0		2	
018	12812018	SAMPLE	176726-003	97646	Filtra	28-DEC-2004 13:47	5.0	1.0		2	
019	12812019	SAMPLE	176726-005	97646	Filtra	28-DEC-2004 13:53	25.0	1.0	1	2	1:MN=641.200
020	12812020	SAMPLE	176726-005	97646	Filtra	28-DEC-2004 13:58	100.0	1.0		2	
021	12812021	SAMPLE	176726-006	97646	Filtra	28-DEC-2004 14:04	20.0	1.0		2	
022	12812022	SAMPLE	176726-007	97646	Filtra	28-DEC-2004 14:10	5.0	1.0		2	
023	12812023	SAMPLE	176726-008	97646	Filtra	28-DEC-2004 14:16	5.0	1.0		2	
029	12812029	CCV				28-DEC-2004 14:51	1.0	1.0		12 2	
031	12812031	CCB				28-DEC-2004 15:03	1.0	1.0		2	
032	12812032	SAMPLE	176728-001	97646	Filtra	28-DEC-2004 15:09	10.0	1.0		2	
033	12812033	SAMPLE	176726-006	97646	Filtra	28-DEC-2004 15:15	1.0	1.0	3	2	3:MG=236900
034	12812034	SAMPLE	176726-007	97646	Filtra	28-DEC-2004 15:21	1.0	1.0	3	2	3:NA=64520.0
035	12812035	SAMPLE	176726-008	97646	Filtra	28-DEC-2004 15:27	1.0	1.0	3	2	3:NA=64070.0
036	12812036	SAMPLE	176728-002	97646	Filtra	28-DEC-2004 15:33	20.0	1.0		2	
037	12812037	SAMPLE	176728-001	97646	Filtra	28-DEC-2004 15:39	1.0	1.0	5	2	5:NA=94860.0
038	12812038	SAMPLE	176728-002	97646	Filtra	28-DEC-2004 15:44	1.0	1.0	5	2	5:MG=86440.0
039	12812039	SAMPLE	176723-001	97646	Filtra	28-DEC-2004 15:50	10.0	1.0		2	
040	12812040	SAMPLE	176723-002	97646	Filtra	28-DEC-2004 15:56	10.0	1.0		2	

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318

Analyst: K Carlyon Date: 12/28/04

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 54523453 Instrument: MET05 Agilent ICP-MS Begun: 28-DEC-2004
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
041	12812041	SAMPLE	176723-001	97646	Filtra	28-DEC-2004 16:02	1.0	1.0	2		2	2:MG=114100
043	12812043	CCV				28-DEC-2004 16:14	1.0	1.0			12 2	
045	12812045	CCB				28-DEC-2004 16:26	1.0	1.0			2	
046	12812046	SAMPLE	176723-002	97646	Filtra	28-DEC-2004 16:32	1.0	1.0	2		2	2:MG=132400
047	12812047	SAMPLE	176723-003	97646	Filtra	28-DEC-2004 16:38	1.0	1.0	2		2	2:MG=132700
048	12812048	SAMPLE	176723-003	97646	Filtra	28-DEC-2004 16:43	1.0	1.0			2	
050	12812050	BS	QC276942	97646	Filtra	28-DEC-2004 16:55	1.0	1.0			2	
051	12812051	BSD	QC276943	97646	Filtra	28-DEC-2004 17:01	1.0	1.0			2	
052	12812052	BLANK	QC276941	97646	Filtra	28-DEC-2004 17:07	1.0	1.0			2	
053	12812053	MS	QC276944	97646	Filtra	28-DEC-2004 17:13	10.0	1.0	1		2	
054	12812054	MSD	QC276945	97646	Filtra	28-DEC-2004 17:19	10.0	1.0	1	1	2	
055	12812055	SAMPLE	176736-001	97646	Water	28-DEC-2004 17:25	10.0	1.0			2	2:NA=106900
056	12812056	SAMPLE	176736-002	97646	Water	28-DEC-2004 17:30	20.0	1.0			2	1:AL=625.000
057	12812057	X				28-DEC-2004 17:36	1.0	1.0			2	
063	12812063	CCV				28-DEC-2004 18:11	1.0	1.0			12 2	
065	12812065	CCB				28-DEC-2004 18:23	1.0	1.0			2	
070	12812070	ICSAB				28-DEC-2004 18:52	1.0	1.0			11 2	9:CA=288700

Stds used: 1=04WS2314 2=01WS0352 3=04WS2310 4=04WS2311 5=04WS2312 6=04WS2313 7=04WS2308 8=04WS2309 9=04WS2317 10=04WS2315 11=04WS2316 12=04WS2318

Analyst: K Carlyn Date: 12/28/04

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL	V	ZN
176728-001	MET05	12/27/04 21:01	1.0		+	+	+		+		+	+	+	+	+			+	+		+		+	+	+
176728-001	MET05	12/27/04 21:25	1.0																	+					
176728-001	MET05	12/28/04 01:00	10.0																						
176728-001	MET05	12/28/04 15:09	10.0	+						+						+	+					+			
176728-001	MET05	12/28/04 15:39	1.0					+																	
176728-002	MET05	12/27/04 21:19	1.0		+	+	+		+		+	+	+	+	+			+	+	+	+		+	+	+
176728-002	MET05	12/28/04 01:06	20.0																						
176728-002	MET05	12/28/04 15:33	20.0	+						+						+	+					+			
176728-002	MET05	12/28/04 15:44	1.0					+																	
QC276941	MET05	12/27/04 18:17	1.0	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
QC276941	MET05	12/27/04 18:41	1.0			+																			
QC276941	MET05	12/28/04 17:07	1.0																			+			
QC276942	MET05	12/27/04 18:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
QC276942	MET05	12/28/04 16:55	1.0																			+			
QC276943	MET05	12/27/04 18:29	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
QC276943	MET05	12/28/04 17:01	1.0																			+			
QC276944	MET05	12/27/04 19:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	
QC276944	MET05	12/28/04 17:13	10.0																			+			+
QC276945	MET05	12/27/04 19:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	
QC276945	MET05	12/28/04 17:19	10.0																			+			+
QC276946	MET05	12/27/04 18:53	5.0	+	+	+	+	+	+		+	+	+	+	+			+	+	+	+		+	+	+
QC276946	MET05	12/27/04 19:34	50.0							+						+	+					+			
QC277689	MET05	12/27/04 21:07	1.0	+	+	+	+		+		+	+	+	+	+			+	+	+	+		+	+	+

Curtis & Tompkins Laboratories **Sample Preparation Summary** **27-DEC-2004 21:07**

Batch Number : 97646
Date Extracted: 20-DEC-2004
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 04SS226
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176723-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176723-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176723-003			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176723-004			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					AS, CD, CR, (more)		
176723-005			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					AS, CD, CR, (more)		
176723-006			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					AS, CD, CR, (more)		
176723-008			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					AS, CD, CR, (more)		
176723-009			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					AS, CD, CR, (more)		
176726-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176726-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176726-003			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176726-004			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176726-005			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176726-006			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176726-007			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176726-008			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176728-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176728-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176736-001			Treadwell & Rollo	Water	50	ml	50	1.000000	1					AS, CD, CR, (more)		
176736-002			Treadwell & Rollo	Water	50	ml	50	1.000000	1					AS, CD, CR, (more)		
QC276941	BLANK			Filtrate	50	ml	50	1.000000	1					ICAP		
QC276942	BS			Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276943	BSD			Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276944	MS	of 176726-004		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276945	MSD	of 176726-004		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC276946	SER	of 176726-004		Filtrate	50	ml	50	1.000000	1					ICAP		
QC277689	PDS	of 176726-004		Filtrate	50	ml	50	1.000000	1					ICAP		

Prep Chemist: KC for K Gaines Reviewed By: K Carlyn Date: 12/27/04

Relinquished By: KC for K Gaines Received By: K Carlyn Date: 12/27/04

1. **Water Digestion for ICP-MS** Curtis & Tompkins, Ltd.

LIMS Batch #: 976446
Date Digested: 12/20/04
Digested by: KLA

Digestion Method
☒ EPA 200.8 for ICP-MS
☐ _____

BK 2036
Page 31

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS-04 J				FIELD FILTERED
MSD-04				
M6726-04				
-01 D				
-02				
-03				
-05				
-06				
-07 G				
-08				
728--01 K				
02				
723-01 D				
-02				
-03				
-04 L				FILTRATE
-05 K				
-06				
-08				
-09 L				
736-01 I				WATER/TOTAL
02				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95°C	KLA 12/20
.5 mL of spike solution was added to all spikes	04SS226	
	N/A	
concentrated HCl	A27045 BAKER	
concentrated HNO3	A33246 BAKER	
☐ filtered thru' Whatman # 541	N/A	

328
Continued from page ____
Continued on page ____

12/20/04
Extraction Chemist / Date

12/20/04
Reviewed by / Date

Curtis & Tompkins Laboratories
MDL Summary for EPA 6020 Water 200.8

Analyte	Units	MET05	
Aluminum	ug/L	03/29/04	0.57
Antimony	ug/L	03/29/04	0.066
Arsenic	ug/L	03/29/04	0.79
Barium	ug/L	03/29/04	0.17
Beryllium	ug/L	03/29/04	0.14
Cadmium	ug/L	03/29/04	0.20
Calcium	ug/L	03/29/04	17
Chromium	ug/L	03/29/04	0.044
Cobalt	ug/L	03/29/04	0.069
Copper	ug/L	06/21/04	0.28
Iron	ug/L	03/29/04	7.0
Lead	ug/L	03/29/04	0.048
Magnesium	ug/L	03/29/04	6.6
Manganese	ug/L	03/29/04	0.060
Molybdenum	ug/L	03/29/04	0.19
Nickel	ug/L	03/29/04	0.13
Potassium	ug/L	03/29/04	9.9
Selenium	ug/L	03/29/04	0.58
Silver	ug/L	03/29/04	0.16
Sodium	ug/L	03/29/04	18
Thallium	ug/L	03/29/04	0.17
Thorium	ug/L	04/14/03	0.15
Uranium	ug/L	04/14/03	0.041
Vanadium	ug/L	03/29/04	0.42
Zinc	ug/L	03/31/04	0.16

GENERAL CHEMISTRY

Curtis & Tompkins, Ltd.

Alkalinity

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Matrix:	Water	Batch#:	97773
Units:	mg/L	Received:	12/17/04
Diln Fac:	1.000	Analyzed:	12/22/04

Field ID: BB3PZ101 Lab ID: 176728-001
Type: SAMPLE Sampled: 12/16/04

Analyte	Result	RL
Alkalinity, Bicarbonate	490	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	490	1.0

Field ID: BB3SW102 Lab ID: 176728-002
Type: SAMPLE Sampled: 12/17/04

Analyte	Result	RL
Alkalinity, Bicarbonate	370	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	370	1.0

Type: BLANK Lab ID: QC277435

Analyte	Result	RL
Alkalinity, Bicarbonate	ND	1.0
Alkalinity, Carbonate	ND	1.0
Alkalinity, Hydroxide	ND	1.0
Alkalinity, Total as CaCO3	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Units:	mg/L
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC277436	Batch#:	97773
Matrix:	Water	Analyzed:	12/22/04

Spiked	Result	%REC	Limits
200.0	218.5	109	90-110

Curtis & Tompkins, Ltd.

Batch QC Report

Alkalinity

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 310.1
Analyte:	Alkalinity, Total as CaCO3	Diln Fac:	1.000
Field ID:	610SP02	Batch#:	97773
MSS Lab ID:	176736-002	Sampled:	12/17/04
Matrix:	Water	Received:	12/17/04
Units:	mg/L	Analyzed:	12/22/04

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC277437	561.2	200.0	772.8	106	69-112		
MSD	QC277438		200.0	779.7	109	69-112	1	25

RPD= Relative Percent Difference

Analysis: **Alkalinity** Analysis Date: **12/22/04** H_2SO_4 Normality = **0.023**

Method: **EPA 310.1** / SMWW 2320B Batch No: **97773** conc.(mg/L) Na_2CO_3 for QC = **200**

SOP#: Alkalinity_rv 6.doc Analyst: JKS

SAMPLE	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alkalinity Volume (4.5-4.2) (mL)	**Low Alkalinity** as $CaCO_3$ (mg/L)	Reporting Limit (mg/L)
176704-1	7.59	25	0.00	6.65	305.90		n/a	1.0
176704-2	7.30	25	0.00	5.50	253.00		n/a	1.0
176704-3	7.46	25	0.00	9.45	434.70		n/a	1.0
176704-4	7.30	25	0.00	6.30	289.80		n/a	1.0
176704-5	7.20	25	0.00	7.60	349.60		n/a	1.0
176704-6	7.60	25	0.00	8.30	381.80		n/a	1.0
176723-1	8.14	25	0.00	9.20	423.20		n/a	1.0
176723-2	8.13	25	0.00	10.05	462.30		n/a	1.0
176723-3	8.13	25	0.00	10.40	478.40		n/a	1.0
176723-4	7.49	25	0.00	11.60	533.60		n/a	1.0
176723-5	7.16	25	0.00	7.70	354.20		n/a	1.0
176723-6	7.18	25	0.00	18.10	832.60		n/a	1.0
176723-8	7.09	25	0.00	5.15	236.90		n/a	1.0
176723-9	7.32	25	0.00	3.80	174.80		n/a	1.0
176728-1	6.74	25	0.00	10.60	487.60		n/a	1.0
176728-2	7.44	25	0.00	8.10	372.60		n/a	1.0
176733-7	8.04	25	0.00	5.60	257.60		n/a	1.0
176734-3	5.29	100	0.00	0.21	rpt low alk	0.30	1.380	1.0
176736-1	7.65	25	0.00	12.70	584.20		n/a	1.0
176736-2	7.46	25	0.00	12.20	561.20		n/a	1.0

QC DATA	Initial pH	Sample Volume (mL)	Vol. Acid to pH 8.3 (mL)	Vol. Acid to pH 4.5 (mL)	**Alkalinty** as $CaCO_3$ (mg/L)	Low Alk Vol (mL)	**Low Alk** as $CaCO_3$ (mg/L)	RL (mg/L)	% Rec.	% RPD
MB	5.56	25	0.00	0.00	ND			1.0		
LCS	10.11	25	2.10	4.75	218.50			1.0	109	
176736-2	7.46	25	0.00	12.20	561.20	0.02	n/a	1.0		
MS	8.81	25	1.70	16.80	772.80			1.0	106	
MSD	8.95	25	1.70	16.95	779.70			1.0	109	1

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	90 - 110
MS/ MSD	25	80 - 120

Reviewed by/ Date: _____

Template: F:\inorgan\wetstuff\alkalinity.xls
Ver.8.3, Effective 6/03/04

Curtis Tompkins, Ltd.

Analysis: **Alkalinity** Analysis Date: 12/22/04 H_2SO_4 Normality = 0.023

Method: **EPA 310.1** Batch No: 97773 Analyst: JKS

SAMPLE	(P)	(T-P)	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity	Carbonate Alkalinity	Hydroxide Alkalinity
				as $CaCO_3$ (mg/L)		
176704-1	0.0	305.9	305.9	305.900	0.000	0.000
176704-2	0.0	253.0	253	253.000	0.000	0.000
176704-3	0.0	434.7	434.7	434.700	0.000	0.000
176704-4	0.0	289.8	289.8	289.800	0.000	0.000
176704-5	0.0	349.6	349.6	349.600	0.000	0.000
176704-6	0.0	381.8	381.8	381.800	0.000	0.000
176723-1	0.0	423.2	423.2	423.200	0.000	0.000
176723-2	0.0	462.3	462.3	462.300	0.000	0.000
176723-3	0.0	478.4	478.4	478.400	0.000	0.000
176723-4	0.0	533.6	533.6	533.600	0.000	0.000
176723-5	0.0	354.2	354.2	354.200	0.000	0.000
176723-6	0.0	832.6	832.6	832.600	0.000	0.000
176723-8	0.0	236.9	236.9	236.900	0.000	0.000
176723-9	0.0	174.8	174.8	174.800	0.000	0.000
176728-1	0.0	487.6	487.6	487.600	0.000	0.000
176728-2	0.0	372.6	372.6	372.600	0.000	0.000
176733-7	0.0	257.6	257.6	257.600	0.000	0.000
176734-3	0.0	#VALUE!	1.38	not applicable	not applicable	not applicable
176736-1	0.0	584.2	584.2	584.200	0.000	0.000
176736-2	0.0	561.2	561.2	561.200	0.000	0.000

P: Phenolphthalein Alkalinity (using volume to pH 8.3)
T-P: Total Alkalinity minus Phenolphthalein Alkalinity

Carbonate Alkalinity = 2x the smaller of P or (T-P)
Bicarbonate Alkalinity = (T-2P) when P < (T-P)
Hydroxide Alkalinity = (2P-T) when (T-P) < P

Analysis: **Alkalinity** Analysis Date: 12/22/04 H_2SO_4 Normality = 0.023

Method: **EPA 310.1** Batch No: 97773 Analyst: JKS

SAMPLE	Total Alkalinty as $CaCO_3$ (mg/L)	Bicarbonate Alkalinity as HCO_3^- (mg/L)	Carbonate Alkalinity as CO_3^{2-} (mg/L)	Hydroxide Alkalinity as OH^- (mg/L)
176704-1	305.9	372.97	0.000	0.00
176704-2	253	308.47	0.000	0.00
176704-3	434.7	530.01	0.000	0.00
176704-4	289.8	353.34	0.000	0.00
176704-5	349.6	426.25	0.000	0.00
176704-6	381.8	465.51	0.000	0.00
176723-1	423.2	515.99	0.000	0.00
176723-2	462.3	563.66	0.000	0.00
176723-3	478.4	583.29	0.000	0.00
176723-4	533.6	650.59	0.000	0.00
176723-5	354.2	431.86	0.000	0.00
176723-6	832.6	1015.15	0.000	0.00
176723-8	236.9	288.84	0.000	0.00
176723-9	174.8	213.12	0.000	0.00
176728-1	487.6	594.50	0.000	0.00
176728-2	372.6	454.29	0.000	0.00
176733-7	257.6	314.08	0.000	0.00
176734-3	1.38	not applicable	not applicable	not applicable
176736-1	584.2	712.28	0.000	0.00
176736-2	561.2	684.24	0.000	0.00

Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 97773 Date: 12-22-04 Benchbook#: **BK 1927**
Matrix: H_2O Time: 17:50 Page: **80**

CAL-ph 4.0: SS#: 045598
CAL-ph 7.0: SS#: 0455448
CAL-ph 10.0: SS#: 0455382
Slope: 99.8
(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5
$CaCO_3$ Conc (mg/L): 1000
$CaCO_3$ WS#: 04WS0872
H_2SO_4 Normality: 0.023
H_2SO_4 Reagent ID: ~~04-15-05~~ 06-17-05 (JS) 12-22-04

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	MB	25	5.56	–	<0.05		
	LCS	25	10.11	2.10	4.75		
	~~176716-001~~		7.77	–	~~5.35~~ (JS) 12-22-04		
	176704-001E	25	7.59	–	6.65		
5	-002	25	7.30	–	~~6.~~ 5.50 (JS) 12-22-04		
	-003	25	7.46	–	9.45		
	-004	25	7.30	–	6.30		
	-005	25	7.20	–	7.60		
	-006 ↓	25	7.60	–	8.30		
10	176723-001E	25	8.14	–	9.20		
	-002	25	8.13	–	10.05		
	-003 ↓	25	8.13	–	10.40		
	-004L	25	7.49	–	11.60		
	-005K	25	7.16	–	7.70		
15	-006K	25	7.18	–	18.10		
	-008K	25	7.09	–	5.15		
	-009L	25	7.32	–	3.80		
	176728-001F	25	6.74	–	10.60		
	-002F	25	7.44	–	8.10		
20	176733-007F	25	8.04	–	5.60		
	176734-003S	25	5.04	–	<2mL		
	-003S	100	5.24	–	<2mL		
	-003S	100	(JS) 12-22-04 ~~5.09~~ 5.29	–	0.210	0.300	
	176736-001K	25	7.65	–	12.70		
	-002K	25	7.46	–	12.20		
	-002K MS	25	8.81	(JS) 12-22-04 1.70	(JS) 12-22-04 ~~1.70~~ 16.80		

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

CONT ON PAGE 80

Jason Spence 12-22-04
Analyst / Date

DSW 12-24
Reviewed by / Date

CONT. FROM PAGE 80

Alkalinity Benchbook EPA 310.1 / SMWW 2320B Curtis & Tompkins, Ltd.

LIMS Batch #: 97773 Date: 12-22-04 Benchbook#: **BK 1927**

Matrix: H_2O Time: 17:30 Page: **81**

CAL-ph 4.0: SS#: 045598

CAL-ph 7.0: SS#: 0455448

CAL-ph 10.0: SS#: 0455382

Slope: 99.8

(slope limits: 92 - 102)

$CaCO_3$ Vol (mgL) Spiked: 5

$CaCO_3$ Conc (mg/L): 1000

$CaCO_3$ WS#: 04WS0872

H_2SO_4 Normality: 0.028

H_2SO_4 Reagent ID: 06-17-05

	Sample # / Letter	Sample Vol. Titrated (mL)	Initial pH (S.U.)	H_2SO_4 Vol (mL) to pH 8.3	H_2SO_4 Vol (mL) to pH 4.5 *	Low Alk TotalVol (mL)	Comments
1	176736-~~003~~ 002 K MSD (JS) 12-22-04	25	8.95	1.70	16.95		
5							
10							
15							
20							

* If Acid Vol to 4.5 is < 2.0mL, redo using 100mL sample volume. If still < 2.0mL, go on to Low Alkalinity.

Joan Spence 12-22-04

Analyst / Date

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97773
Date Started: 22-DEC-2004
Batched by : Jason K. Spence

Analysis : ALKALINITY
Bgroup : N/A
Department : Wet Chemistry

Sample	Type		Client	Matrix	Analyses	Due Date
176704-001			URS Corporation	Water	ALKALINITY	29-DEC-2004
176704-002			URS Corporation	Water	ALKALINITY	29-DEC-2004
176704-003			URS Corporation	Water	ALKALINITY	29-DEC-2004
176704-004			URS Corporation	Water	ALKALINITY	29-DEC-2004
176704-005			URS Corporation	Water	ALKALINITY	29-DEC-2004
176704-006			URS Corporation	Water	ALKALINITY	29-DEC-2004
176723-001			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176723-002			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176723-003			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176723-004			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176723-005			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176723-006			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176723-008			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176723-009			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176728-001			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176728-002			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176733-007			LFR Levine Fricke	Water	ALKALINITY	23-DEC-2004
176734-003			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176736-001			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
176736-002			Treadwell & Rollo	Water	ALKALINITY	30-DEC-2004
QC277435	MB			Water	ALKALINITY	
QC277436	LCS			Water	ALKALINITY	
QC277437	MS	of 176736-002		Water	ALKALINITY	
QC277438	MSD	of 176736-002		Water	ALKALINITY	

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Matrix:	Water	Batch#:	97715
Units:	mg/L	Received:	12/17/04

Field ID:	BB3PZ101	Sampled:	12/16/04
Type:	SAMPLE	Analyzed:	12/18/04
Lab ID:	176728-001		

Analyte	Result	RL	Diln Fac
Fluoride	ND	0.10	1.000
Chloride	120	5.0	25.00
Nitrogen, Nitrite	ND	0.05	1.000
Nitrogen, Nitrate	17	1.3	25.00
Sulfate	89	13	25.00

Field ID:	BB3SW102	Lab ID:	176728-002
Type:	SAMPLE	Sampled:	12/17/04

Analyte	Result	RL	Diln Fac	Analyzed
Fluoride	ND	0.10	1.000	12/17/04
Chloride	130	5.0	25.00	12/18/04
Nitrogen, Nitrite	ND	0.05	1.000	12/17/04
Nitrogen, Nitrate	25	1.3	25.00	12/18/04
Sulfate	77	13	25.00	12/18/04

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC277185	Analyzed:	12/17/04

Analyte	Result	RL
Fluoride	ND	0.10
Chloride	ND	0.20
Nitrogen, Nitrite	ND	0.05
Nitrogen, Nitrate	ND	0.05
Sulfate	ND	0.50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Matrix:	Water	Batch#:	97715
Units:	mg/L	Analyzed:	12/17/04
Diln Fac:	1.000		

Type: BS Lab ID: QC277186

Analyte	Spiked	Result	%REC	Limits
Fluoride	2.000	1.990	99	80-120
Chloride	4.000	4.096	102	80-120
Nitrogen, Nitrite	1.000	1.006	101	80-120
Nitrogen, Nitrate	1.000	1.041	104	80-120
Sulfate	10.00	10.20	102	80-120

Type: BSD Lab ID: QC277187

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Fluoride	2.000	1.906	95	80-120	4	20
Chloride	4.000	3.997	100	80-120	2	20
Nitrogen, Nitrite	1.000	0.9704	97	80-120	4	20
Nitrogen, Nitrate	1.000	0.9936	99	80-120	5	20
Sulfate	10.00	9.996	100	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 300.0
Field ID:	1349MW102	Batch#:	97715
MSS Lab ID:	176726-004	Sampled:	12/16/04
Matrix:	Water	Received:	12/17/04
Units:	mg/L	Analyzed:	12/18/04
Diln Fac:	50.00		

Type: MS Lab ID: QC277188

Analyte	MSS Result	Spiked	Result	%REC	Limits
Fluoride	0.2498	50.00	48.38	96	80-120
Chloride	445.9	100.0	547.4	101 NM	80-120
Nitrogen, Nitrite	<0.01100	25.00	26.51	106	80-120
Nitrogen, Nitrate	0.7097	25.00	26.79	104	80-120
Sulfate	46.84	250.0	303.2	103	80-120

Type: MSD Lab ID: QC277189

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Fluoride	50.00	47.09	94	80-120	3	20
Chloride	100.0	544.5	99 NM	80-120	1	25
Nitrogen, Nitrite	25.00	26.61	106	80-120	0	25
Nitrogen, Nitrate	25.00	27.41	107	80-120	2	25
Sulfate	250.0	298.8	101	80-120	1	25

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

INITIAL CALIBRATION REPORT FOR 176728 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph Reviewed By: CW
Calnum: 624241562001 Name: Type: (normal) Date: 15-JUN-2004 18:20 Inj Vol (uL): 25

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	167_2	624241562002	L1	15-JUN-2004 18:20	04SS201 (500X)
2	167_3	624241562003	L2	15-JUN-2004 18:38	04SS201 (100X)
3	167_4	624241562004	L3	15-JUN-2004 18:57	04SS201 (25X)
4	167_5	624241562005	L4	15-JUN-2004 19:15	04SS201 (10X)
5	167_6	624241562006	L5	15-JUN-2004 19:34	04SS201 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2178	0.2529	0.2568	0.2521	0.2625	QORG	A		0.245946	0.001632	mg/L	0.2484	1.000	0.990	
Chloride	0.1952	0.1581	0.1690	0.1664	0.1809	QORG	A		0.156183	0.001226	mg/L	0.1739	1.000	0.990	
Nitrogen, Nitrite	0.3100	0.3284	0.3455	0.3324	0.3524	QORG	A		0.322015	0.005996	mg/L	0.3338	1.000	0.990	
Nitrogen, Nitrate	0.3491	0.3779	0.4021	0.3882	0.4079	QORG	A		0.378144	0.005859	mg/L	0.3850	1.000	0.990	
Sulfate	0.1187	0.1197	0.1258	0.1233	0.1326	QORG	A		0.117099	3.063E-4	mg/L	0.1240	1.000	0.990	

Curves: QORG: Quadratic regression forced through origin

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Instid : IC03 Calname :
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :

ICV 624241562008 (167_8) standards: 03WS1209 (5X)

Analyte	Ch	ICV Seqnum	Date	Spiked	Quant	Units	%D	Max
Fluoride	P	624241562008	15-JUN-2004	1.0000	0.9258	mg/L	-7	10
Chloride	P	624241562008	15-JUN-2004	2.0000	1.9766	mg/L	-1	10
Nitrogen, Nitrite	P	624241562008	15-JUN-2004	0.5000	0.4870	mg/L	-3	10
Nitrogen, Nitrate	P	624241562008	15-JUN-2004	0.5000	0.4905	mg/L	-2	10
Sulfate	P	624241562008	15-JUN-2004	5.0000	4.8891	mg/L	-2	10

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph Reviewed By:
Calnum: 624241562001 Name: Type: (normal) Date: 15-JUN-2004 18:20 Inj Vol (uL): 25

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	167_2	624241562002	L1	15-JUN-2004 18:20	04SS201 (500X)
2	167_3	624241562003	L2	15-JUN-2004 18:38	04SS201 (100X)
3	167_4	624241562004	L3	15-JUN-2004 18:57	04SS201 (25X)
4	167_5	624241562005	L4	15-JUN-2004 19:15	04SS201 (10X)
5	167_6	624241562006	L5	15-JUN-2004 19:34	04SS201 (5X)

Analyte	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Fluoride	0.2178	0.2529	0.2568	0.2521	0.2625	QORG	A		0.245946	0.001632	mg/L	0.2484	1.000	0.990	
Chloride	0.1952	0.1581	0.1690	0.1664	0.1809	QORG	A		0.156183	0.001226	mg/L	0.1739	1.000	0.990	
Nitrogen, Nitrite	0.3100	0.3284	0.3455	0.3324	0.3524	QORG	A		0.322015	0.005996	mg/L	0.3338	1.000	0.990	
Bromide	0.0628	0.0674	0.0721	0.0687	0.0712	QORG	A		0.068074	1.526E-4	mg/L	0.0685	1.000	0.990	
Nitrogen, Nitrate	0.3491	0.3779	0.4021	0.3882	0.4079	QORG	A		0.378144	0.005859	mg/L	0.3850	1.000	0.990	
Orthophosphate (as P)	0.3551	0.2137	0.1697	0.1543	0.1582	QUAD	A	0.061800	0.145034	4.969E-4	mg/L	0.2102	1.000	0.990	
Sulfate	0.1187	0.1197	0.1258	0.1233	0.1326	QORG	A		0.117099	3.063E-4	mg/L	0.1240	1.000	0.990	

MRS 6/16/04

No Valid Second source verification for PO4P.

CW 6/16/04

Curves: QORG: Quadratic regression forced through origin QUAD: Quadratic regression

Instrument response = a0 + amount * a1 + amount^2 * a2 (invert equation before quantitating)

Sequence: 167
Operator: ic_analyst
Printed: 6/16/2004 4:10:28 PM

Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004
Timebase: IC3_DX120
#Samples: 9

Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 6/16/2004 10:57:25 AM by ic_analyst

No.	*Batch	Name	Comment	Dil. Factor	Program	Status	Inj. Date/Time
1	CAL-167	IB		1.0000	IC03-7AN	Finished	6/15/2004 6:02:06 PM
2	CAL-167	ICAL, L1,04SS201,500		1.0000	IC03-7AN	Finished	6/15/2004 6:20:31 PM
3	CAL-167	ICAL, L2,04SS201,100		1.0000	IC03-7AN	Finished	6/15/2004 6:38:55 PM
4	CAL-167	ICAL, L3,04SS201,25		1.0000	IC03-7AN	Finished	6/15/2004 6:57:19 PM
5	CAL-167	ICAL, L4,04SS201,10		1.0000	IC03-7AN	Finished	6/15/2004 7:15:44 PM
6	CAL-167	ICAL, L5,04SS201,5		1.0000	IC03-7AN	Finished	6/15/2004 7:34:08 PM
7	CAL-167	ICB		1.0000	IC03-7AN	Finished	6/15/2004 7:52:33 PM
8	CAL-167	ICV,03WS1209,5		1.0000	IC03-7AN	Finished	6/15/2004 8:10:58 PM
9	CAL-167	SHUTDOWN		1.0000	IC03-7AN_OFF	Finished	6/15/2004 8:29:22 PM

Sequence: 167
Operator: ic_analyst
Printed: 6/16/2004 4:10:28 PM

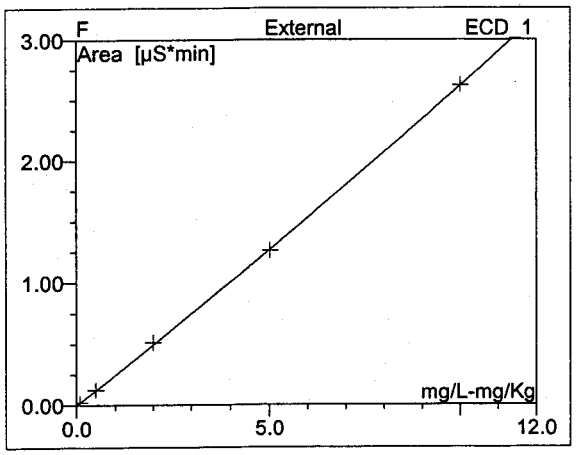
Title: Anions
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004
Timebase: IC3_DX120
#Samples: 9

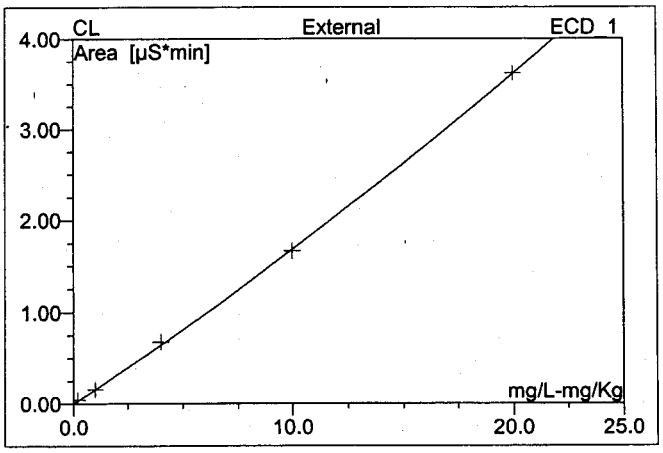
Created: 8/1/2003 11:03:14 AM by ic_analyst
Last Update: 6/16/2004 10:57:25 AM by ic_analyst

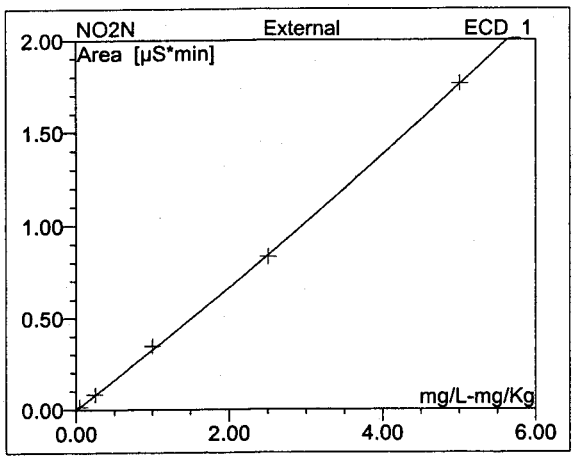
No.	*Batch	Name	Comment	Method	Type	Inj. Vol.	*operator	*PDF
1	CAL-167	IB		IC03-7AN_CAL	Unknown	25.0	MRS	1
2	CAL-167	ICAL, L1,04SS201,500		IC03-7AN_CAL	Standard	25.0	MRS	1
3	CAL-167	ICAL, L2,04SS201,100		IC03-7AN_CAL	Standard	25.0	MRS	1
4	CAL-167	ICAL, L3,04SS201,25		IC03-7AN_CAL	Standard	25.0	MRS	1
5	CAL-167	ICAL, L4,04SS201,10		IC03-7AN_CAL	Standard	25.0	MRS	1
6	CAL-167	ICAL, L5,04SS201,5		IC03-7AN_CAL	Standard	25.0	MRS	1
7	CAL-167	ICB		IC03-7AN_CAL	Unknown	25.0	MRS	1
8	CAL-167	ICV,03WS1209,5		IC03-7AN_CAL	Unknown	25.0	MRS	1
9	CAL-167	SHUTDOWN		IC03-7AN_CAL	Unknown	25.0	MRS	1

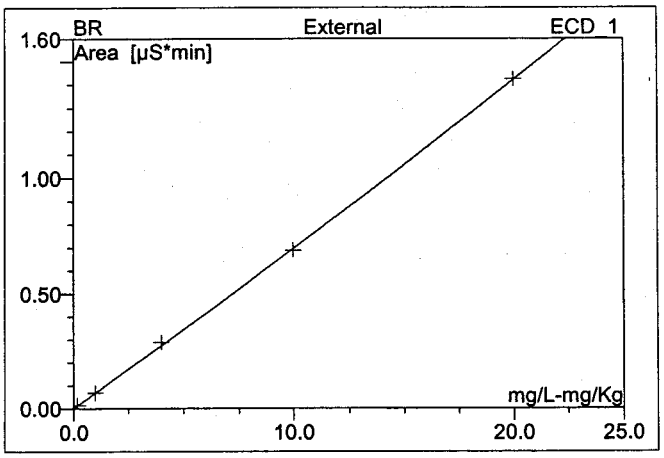
IC03 Calibration Batch Report

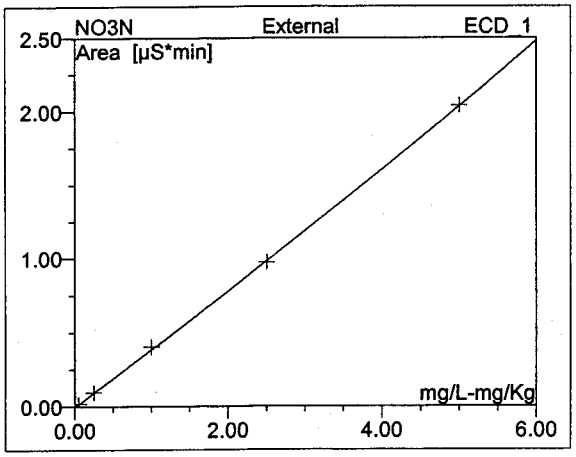
Sequence:	167	Inj. Vol.:	25.0
Program:	IC03-7AN	Operator:	PC_NEWIC
Inj. Date/Time:	06/15/04 19:34	Run Time:	16.00

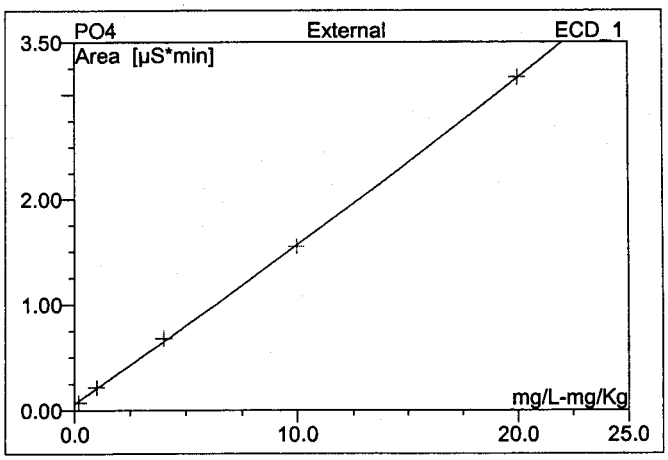




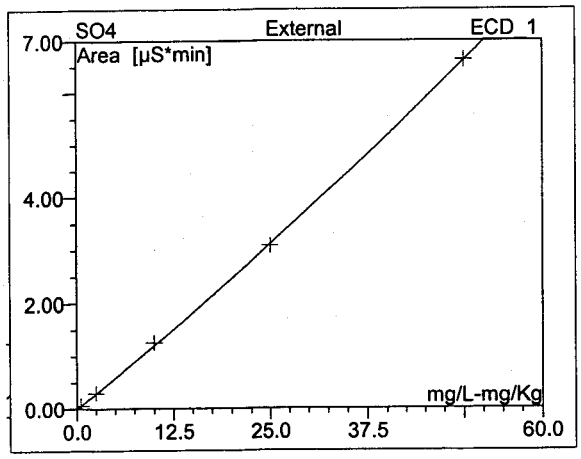








Sequence:	167	*Inj. Vol.:*	25.0
Program:	IC03-7AN	*Operator:*	n.a.
Inj. Date/Time:	06/15/04 19:34	*Run Time:*	16.00



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.203	F	Quad	5	0.000000	0.245946	0.001632	99.980437
2	4.647	CL	Quad	5	0.000000	0.156183	0.001226	99.915771
3	5.480	NO2N	Quad	5	0.000000	0.322015	0.005996	99.958636
4	6.863	BR	Quad	5	0.000000	0.068074	0.000153	99.982005
5	7.680	NO3N	Quad	5	0.000000	0.378145	0.005859	99.970552
6	10.160	PO4	QOff	5	0.061801	0.145034	0.000497	99.973194
7	12.020	SO4	Quad	5	0.000000	0.117099	0.000306	99.938442
AVERAGE:					0.008829	0.204642	0.002238	99.959862

CW 6/16/04

No.	Name	Area µS*min F ECD_1	Area µS*min CL ECD_1	Area µS*min NO2N ECD_1	Area µS*min BR ECD_1	Area µS*min NO3N ECD_1	Area µS*min PO4 ECD_1	Area µS*min SO4 ECD_1
2	ICAL, L1,04S	0.021782	0.039043	0.015501	0.012561	0.017454	0.071017	0.059341
3	ICAL, L2,04S	0.126458	0.158130	0.082093	0.067440	0.094469	0.213676	0.299229
4	ICAL, L3,04S	0.513649	0.676143	0.345537	0.288464	0.402072	0.678628	1.257777
5	ICAL, L4,04S	1.260321	1.663692	0.831086	0.687400	0.970557	1.543020	3.082077
6	ICAL, L5,04S	2.624636	3.618171	1.762116	1.424107	2.039335	3.164794	6.627644

Cw 6/16/04

No.	Name	Height µS F ECD_1	Height µS CL ECD_1	Height µS NO2N ECD_1	Height µS BR ECD_1	Height µS NO3N ECD_1	Height µS PO4 ECD_1	Height µS SO4 ECD_1
2	ICAL, L1,04S	0.187332	0.277080	0.093562	0.069046	0.078558	0.175438	0.181882
3	ICAL, L2,04S	0.991074	1.150408	0.468482	0.317884	0.379332	0.589224	0.916406
4	ICAL, L3,04S	4.231662	4.967876	1.971580	1.371522	1.643090	2.034386	3.867970
5	ICAL, L4,04S	10.603688	12.593416	4.782438	3.304684	3.999650	4.809042	9.615142
6	ICAL, L5,04S	22.464870	27.607642	9.942792	6.897288	8.457848	10.178594	20.875042

No.	Name	Amount mg/L-mg/Kg F ECD_1	Amount mg/L-mg/Kg CL ECD_1	Amount mg/L-mg/Kg NO2N ECD_1	Amount mg/L-mg/Kg BR ECD_1	Amount mg/L-mg/Kg NO3N ECD_1	Amount mg/L-mg/Kg PO4 ECD_1	Amount mg/L-mg/Kg SO4 ECD_1
2	ICAL, L1,04S	0.088511	0.249491	0.048095	0.184442	0.046125	0.063534	0.506089
3	ICAL, L2,04S	0.512429	1.004539	0.253737	0.988497	0.248864	1.043439	2.538491
4	ICAL, L3,04S	2.060289	4.191218	1.052425	4.198025	1.046314	4.192752	10.455201
5	ICAL, L4,04S	4.961030	9.884881	2.467528	9.879133	2.471952	9.878546	24.721636
6	ICAL, L5,04S	10.006956	20.019111	5.005633	20.021590	5.004887	20.021466	50.047049

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Inhibit Integration	On	ECD_1
2	2.200	Minimum Area	0.001 "[Signal]*min"	ECD_1
3	2.250	Peak Slice	0.05 s	ECD_1
4	2.900	Inhibit Integration	Off	ECD_1

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Amount ICAL, L1,04SS201,500
1	F	3.270 min	5.000 RG	External	Area	Quad	Auto		0.100000
2	CL	4.697 min	5.000 RG	External	Area	Quad	Auto		0.200000
3	NO2N	5.520 min	5.000 RG	External	Area	Quad	Auto		0.050000
4	BR	6.913 min	5.000 RG	External	Area	Quad	Auto		0.200000
5	NO3N	7.737 min	10.000 RG	External	Area	Quad	Auto		0.050000
6	PO4	10.117 min	10.000 RG	External	Area	QOff	Auto		0.200000
7	SO4	11.913 min	10.000 RG	External	Area	Quad	Auto		0.500000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Amount ICAL, L2,04SS201,100	Amount ICAL, L3,04SS201,25	Amount ICAL, L4,04SS201,10	Amount ICAL, L5,04SS201,5
1	F	3.270 min	0.500000	2.000000	5.000000	10.000000
2	CL	4.697 min	1.000000	4.000000	10.000000	20.000000
3	NO2N	5.520 min	0.250000	1.000000	2.500000	5.000000
4	BR	6.913 min	1.000000	4.000000	10.000000	20.000000
5	NO3N	7.737 min	0.250000	1.000000	2.500000	5.000000
6	PO4	10.117 min	1.000000	4.000000	10.000000	20.000000
7	SO4	11.913 min	2.500000	10.000000	25.000000	50.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Peak Table:

Use Recently Detected Ret. Times: Off
Dead time:
Delay time of 2nd detector: <None>

No.	Peak Name	Ret.Time	Comment
1	F	3.270 min	
2	CL	4.697 min	
3	NO2N	5.520 min	
4	BR	6.913 min	
5	NO3N	7.737 min	
6	PO4	10.117 min	
7	SO4	11.913 min	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Resp.Fact.	Amount ICAL, L1,04SS201,500	Amount ICAL, L2,04SS201,100	Amount ICAL, L3,04SS201,25
1	F	3.270 min	1.000000	0.100000	0.500000	2.000000
2	CL	4.697 min	1.000000	0.200000	1.000000	4.000000
3	NO2N	5.520 min	1.000000	0.050000	0.250000	1.000000
4	BR	6.913 min	1.000000	0.200000	1.000000	4.000000
5	NO3N	7.737 min	1.000000	0.050000	0.250000	1.000000
6	PO4	10.117 min	1.000000	0.200000	1.000000	4.000000
7	SO4	11.913 min	1.000000	0.500000	2.500000	10.000000

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Amount Table:

Dimension of Amounts: mg/L-mg/Kg
Reference Volume for Amounts: Fixed: 25.0 µl

No.	Peak Name	Ret.Time	Amount ICAL, L4,04SS201,10	Amount ICAL, L5,04SS201,5	Comment
1	F	3.270 min	5.000000	10.000000	
2	CL	4.697 min	10.000000	20.000000	
3	NO2N	5.520 min	2.500000	5.000000	
4	BR	6.913 min	10.000000	20.000000	
5	NO3N	7.737 min	2.500000	5.000000	
6	PO4	10.117 min	10.000000	20.000000	
7	SO4	11.913 min	25.000000	50.000000	

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Calibration:

Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time
1	☒	ICAL, L1,04SS201,500	2	179	25.0	1.0000	1.0000	1.0000	6/15/2004 6:20:31 PM
2	☒	ICAL, L2,04SS201,100	3	179	25.0	1.0000	1.0000	1.0000	6/15/2004 6:38:55 PM
3	☒	ICAL, L3,04SS201,25	4	180	25.0	1.0000	1.0000	1.0000	6/15/2004 6:57:19 PM
4	☒	ICAL, L4,04SS201,10	5	181	25.0	1.0000	1.0000	1.0000	6/15/2004 7:15:44 PM
5	☒	ICAL, L5,04SS201,5	6	182	25.0	1.0000	1.0000	1.0000	6/15/2004 7:34:08 PM

Title: IC03-7AN_CAL
Datasource: DGLD4X01_local
Location: IC3_DX120\IC03-ANIONS-2004\352.SEQ
Created: 10/22/2001 2:51:50 PM by CURTIS & THOMPKIN
Last Update: 12/21/2004 1:56:56 PM by ic_analyst

Calibration:

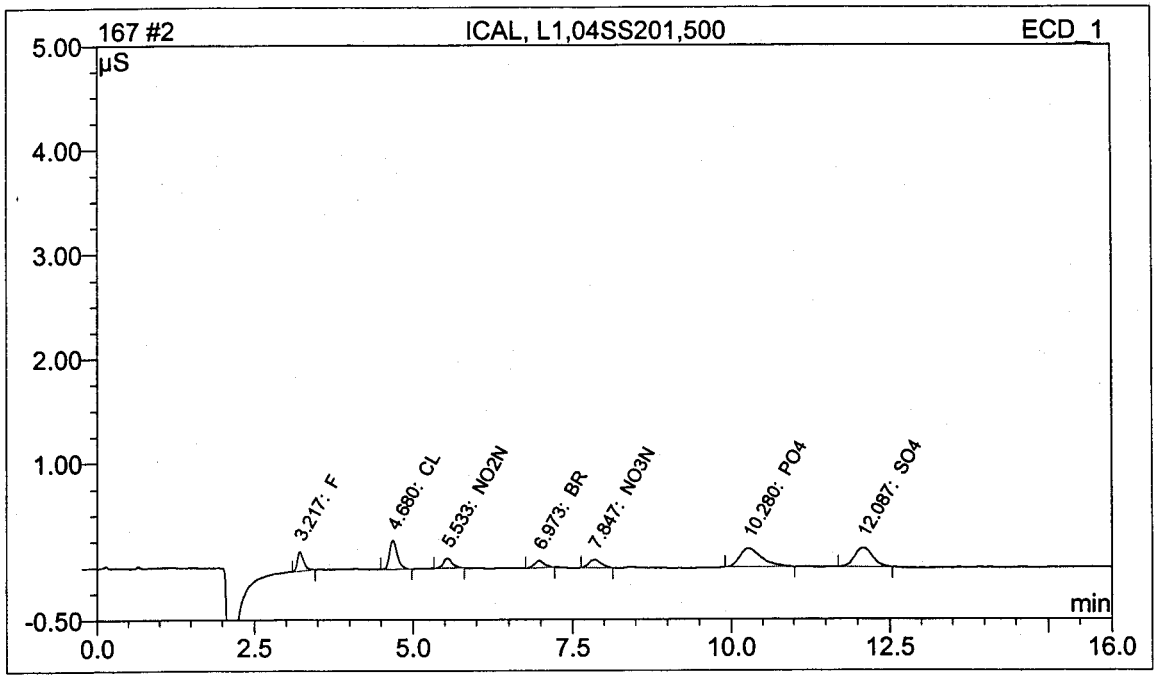
Calibration Mode: Total
Auto Recalibrate: On

No.	Enabled	Name	Calib. Comment
1	☒	ICAL, L1,04SS201,500	Ok
2	☒	ICAL, L2,04SS201,100	Ok
3	☒	ICAL, L3,04SS201,25	Ok
4	☒	ICAL, L4,04SS201,10	Ok
5	☒	ICAL, L5,04SS201,5	Ok

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L1,04SS201,500	**Sample No.:**	2
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:20 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.217	0.021782	0.0885	0.0885	
2	CL	4.680	0.039043	0.2495	0.2495	
3	NO2N	5.533	0.015501	0.0481	0.0481	
4	BR	6.973	0.012561	0.1844	0.1844	
5	NO3N	7.847	0.017454	0.0461	0.0461	
6	PO4	10.280	0.071017	0.0635	0.0635	
7	SO4	12.087	0.059341	0.5061	0.5061	



ANALYZED BY:

MRS 6/16/04

REVIEWED BY:

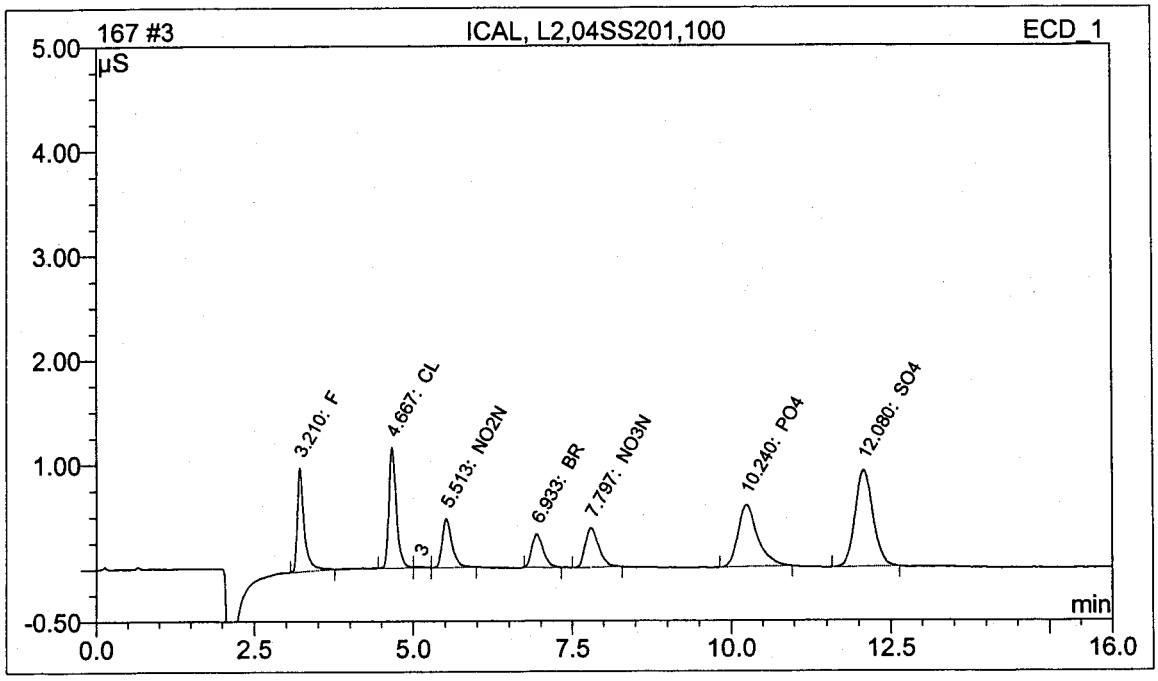
CW 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L2,04SS201,100	**Sample No.:**	3
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:38 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.210	0.126458	0.5124	0.5124	
2	CL	4.667	0.158130	1.0045	1.0045	
4	NO2N	5.513	0.082093	0.2537	0.2537	
5	BR	6.933	0.067440	0.9885	0.9885	
6	NO3N	7.797	0.094469	0.2489	0.2489	
7	PO4	10.240	0.213676	1.0434	1.0434	
8	SO4	12.080	0.299229	2.5385	2.5385	



ANALYZED BY:

MRS 6/16/04

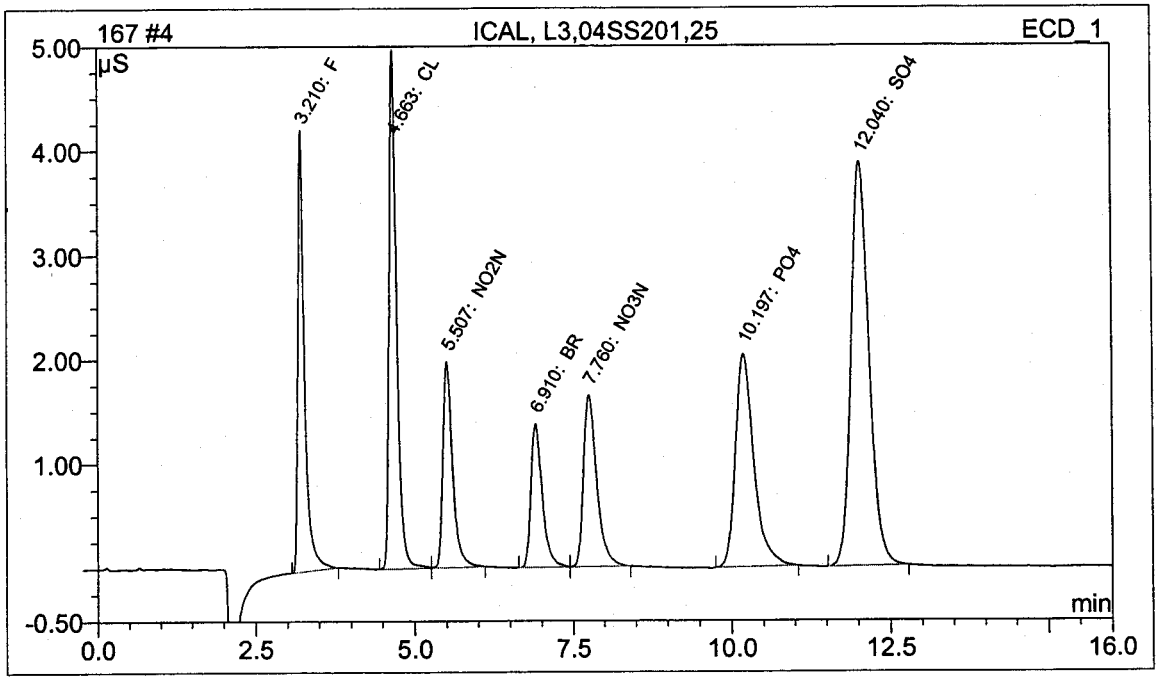
REVIEWED BY:

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L3,04SS201,25	**Sample No.:**	4
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:57 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.210	0.513649	2.0603	2.0603	
2	CL	4.663	0.676143	4.1912	4.1912	
3	NO2N	5.507	0.345537	1.0524	1.0524	
4	BR	6.910	0.288464	4.1980	4.1980	
5	NO3N	7.760	0.402072	1.0463	1.0463	
6	PO4	10.197	0.678628	4.1928	4.1928	
7	SO4	12.040	1.257777	10.4552	10.4552	



ANALYZED BY: MRS 6/16/04

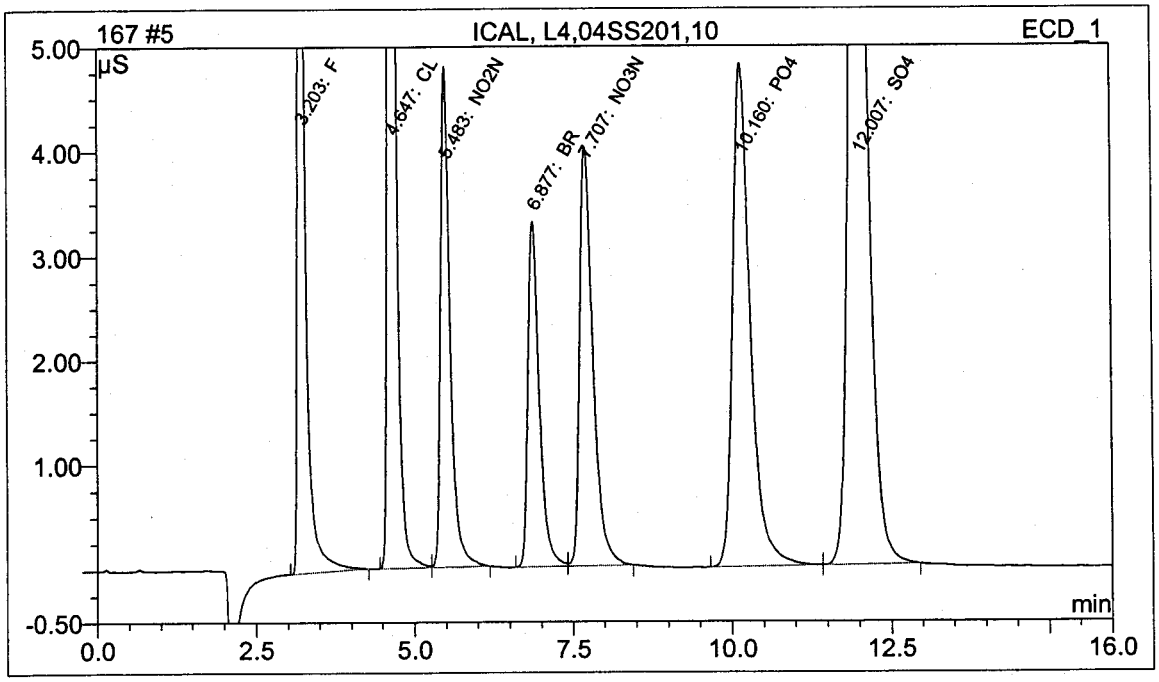
REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L4,04SS201,10	**Sample No.:**	5
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:15 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.203	1.260321	4.9610	4.9610	
2	CL	4.647	1.663692	9.8849	9.8849	
3	NO2N	5.483	0.831086	2.4675	2.4675	
4	BR	6.877	0.687400	9.8791	9.8791	
5	NO3N	7.707	0.970557	2.4720	2.4720	
6	PO4	10.160	1.543020	9.8785	9.8785	
7	SO4	12.007	3.082077	24.7216	24.7216	



ANALYZED BY:

MRS 6/16/04

REVIEWED BY:

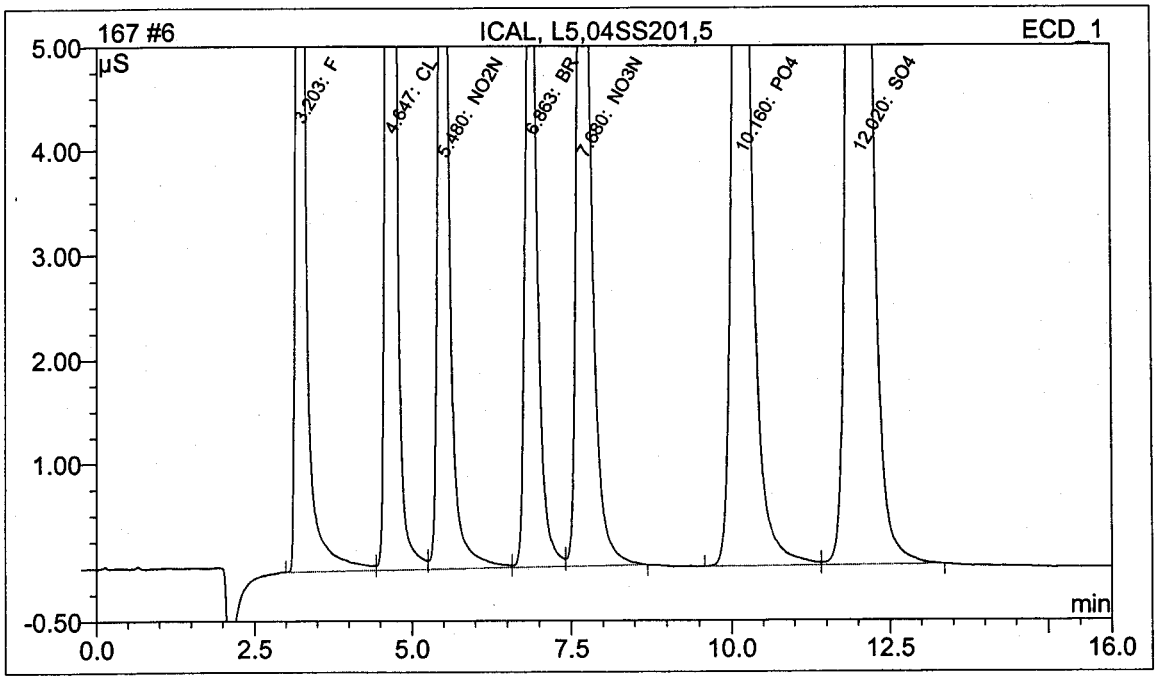
CW 6/16/04

Curtis & Tompkins, Ltd.

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICAL, L5,04SS201,5	**Sample No.:**	6
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:34 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.203	2.624636	10.0070	10.0070	
2	CL	4.647	3.618171	20.0191	20.0191	
3	NO2N	5.480	1.762116	5.0056	5.0056	
4	BR	6.863	1.424107	20.0216	20.0216	
5	NO3N	7.680	2.039335	5.0049	5.0049	
6	PO4	10.160	3.164794	20.0215	20.0215	
7	SO4	12.020	6.627644	50.0470	50.0470	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : IC03 Run Name :
Seqnum : 624241562008 Filename : 167_8 Injected : 15-JUN-2004 20:10
Calnum : 624241562001 Caldate : 15-JUN-2004 Caltype :
Standards: 03WS1209 (5X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Fluoride	1.000000	0.925849	mg/L	-7	10	
Chloride	2.000000	1.976638	mg/L	-1	10	
Nitrogen, Nitrite	0.500000	0.487045	mg/L	-3	10	
Bromide	2.000000	2.012730	mg/L	1	10	
Nitrogen, Nitrate	0.500000	0.490528	mg/L	-2	10	
Orthophosphate (as P)	2.000000	1.775567	mg/L	**-11**	10	v- ***
Sulfate	5.000000	4.889075	mg/L	-2	10	

MLS 6/16/04

ICV not good for PO4P

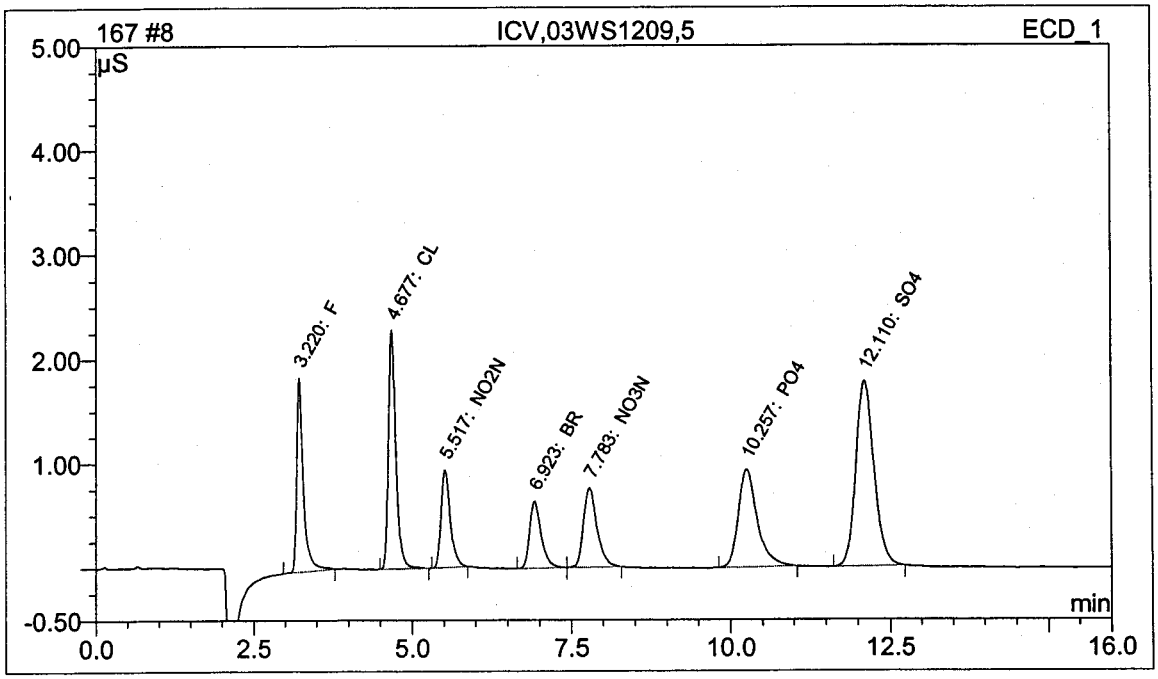
CW 6/16/04

-=low bias v=ICV
Page 1 of 1

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICV,03WS1209,5	**Sample No.:**	8
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 8:10 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.220	0.229108	0.9258	0.9258	
2	CL	4.677	0.313510	1.9766	1.9766	
3	NO2N	5.517	0.158258	0.4870	0.4870	
4	BR	6.923	0.137632	2.0127	2.0127	
5	NO3N	7.783	0.186900	0.4905	0.4905	
6	PO4	10.257	0.320885	1.7756	1.7756	
7	SO4	12.110	0.579828	4.8891	4.8891	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CW 6/16/04

Curtis & Tompkins, Ltd.

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624241562007 Run Name: Injected: 15-JUN-2004 19:52
Filename: 167_7 Run Type: ICB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	[0.0217]	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	[0.0523]	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

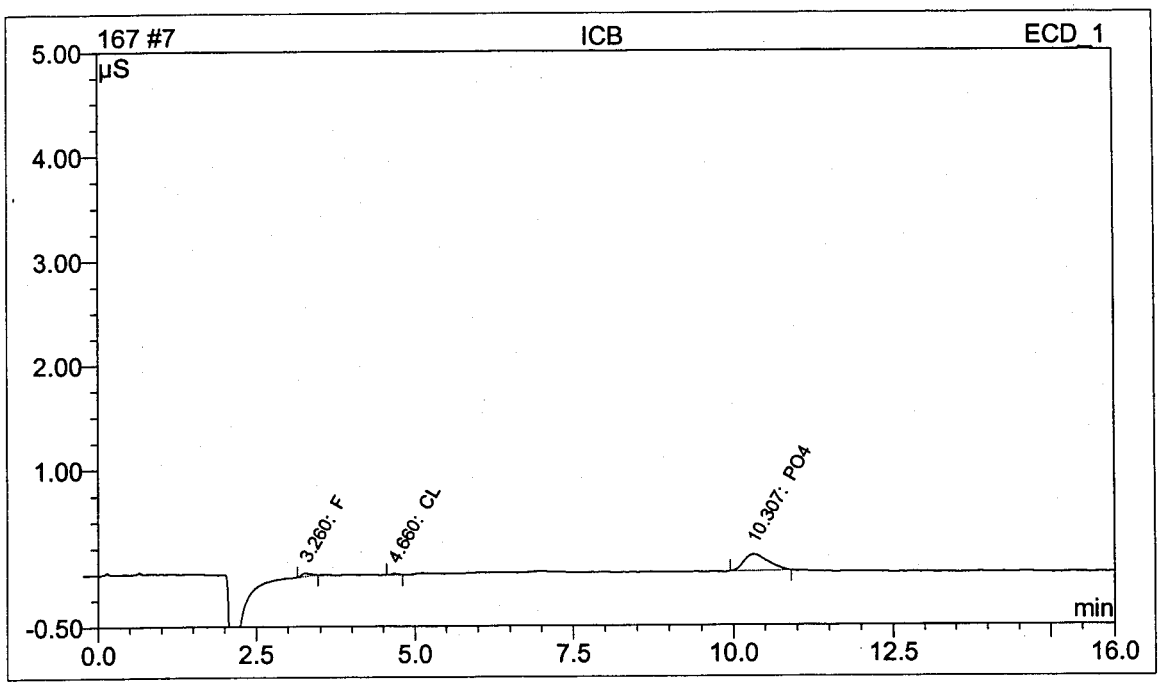
MAS 6/16/04

CW 6/16/04

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	ICB	**Sample No.:**	7
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 7:52 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
1	F	3.260	0.005338	0.0217	0.0217	
2	CL	4.660	0.001352	0.0087	0.0087	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
3	PO4	10.307	0.069393	0.0523	0.0523	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY:

MRS 6/16/04

REVIEWED BY:

CW 6/16/04

Curtis & Tompkins, Ltd.

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624241562001 Run Name: Injected: 15-JUN-2004 18:02
Filename: 167_1 Run Type: IB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624200842001	18-MAY-2004	ND	0.100000	mg/L	<RL
Chloride	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624200842001	18-MAY-2004	ND	0.050000	mg/L	<RL
Bromide	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624200842001	18-MAY-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624200842001	18-MAY-2004	ND	0.200000	mg/L	<RL
Sulfate	624200842001	18-MAY-2004	ND	0.500000	mg/L	<RL

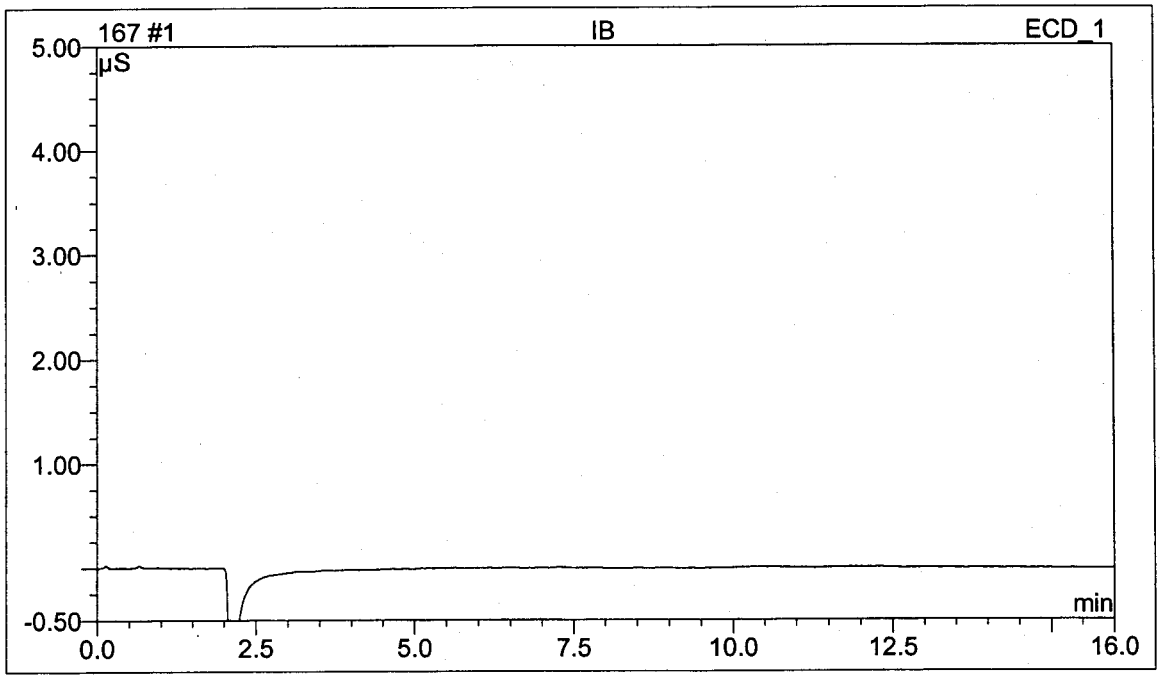
MLS 6/16/04

CW 6/16/04

ANIONS ANALYSIS REPORT DX120 - IC03

Sample Name:	IB	**Sample No.:**	1
Sequence Name:	167	**Batch #:**	CAL-167
Program Method:	IC03-7AN	**Injection vol.:**	25.0
Quantitation Method:	IC03-7AN_CAL	**Dilution Factor:**	1.0000
Quant. Method Title:	IC03-7AN_CAL	**Sample Wt.:**	1.0000
Date Time Collected:	6/15/2004 6:02 PM	**PDF:**	1.0000
System Operator:	MRS		

Peak No.	Component Name	Ret.Time min	Area µS*min	Raw Amount mg/L-mg/Kg	Amount mg/L-mg/Kg	Comment
n.a.	F	n.a.	n.a.	n.a.	n.a.	
n.a.	CL	n.a.	n.a.	n.a.	n.a.	
n.a.	NO2N	n.a.	n.a.	n.a.	n.a.	
n.a.	BR	n.a.	n.a.	n.a.	n.a.	
n.a.	NO3N	n.a.	n.a.	n.a.	n.a.	
n.a.	PO4	n.a.	n.a.	n.a.	n.a.	
n.a.	SO4	n.a.	n.a.	n.a.	n.a.	



ANALYZED BY: MRS 6/16/04

REVIEWED BY: CWC 6/16/04

Curtis & Tompkins, Ltd.

CONTINUING CALIBRATION SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Analyte: Fluoride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	624507963007	17-DEC-2004 17:08	624241562001	15-JUN-2004	0.2484	0.2522	0.5000	0.5111	mg/L	2	10	
IC03	P	624507963018	17-DEC-2004 20:30	624241562001	15-JUN-2004	0.2484	0.2474	2.0000	1.9853	mg/L	-1	10	
IC03	P	624507963036	18-DEC-2004 02:02	624241562001	15-JUN-2004	0.2484	0.2806	5.0000	5.5044	mg/L	10	10	
IC03	P	624507963050	18-DEC-2004 06:19	624241562001	15-JUN-2004	0.2484	0.2464	0.5000	0.4993	mg/L	0	10	

CONTINUING CALIBRATION SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Analyte: Chloride

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	624507963007	17-DEC-2004 17:08	624241562001	15-JUN-2004	0.1739	0.1570	1.0000	0.9974	mg/L	0	10	
IC03	P	624507963018	17-DEC-2004 20:30	624241562001	15-JUN-2004	0.1739	0.1631	4.0000	4.0492	mg/L	1	10	
IC03	P	624507963036	18-DEC-2004 02:02	624241562001	15-JUN-2004	0.1739	0.1793	10.000	10.600	mg/L	6	10	
IC03	P	624507963050	18-DEC-2004 06:19	624241562001	15-JUN-2004	0.1739	0.1716	1.0000	1.0894	mg/L	9	10	
IC03	P	624507963064	18-DEC-2004 10:37	624241562001	15-JUN-2004	0.1739	0.1676	4.0000	4.1566	mg/L	4	10	

CONTINUING CALIBRATION SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrite

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	624507963007	17-DEC-2004 17:08	624241562001	15-JUN-2004	0.3338	0.3065	0.2500	0.2369	mg/L	-5	10	
IC03	P	624507963018	17-DEC-2004 20:30	624241562001	15-JUN-2004	0.3338	0.3298	1.0000	1.0052	mg/L	1	10	
IC03	P	624507963036	18-DEC-2004 02:02	624241562001	15-JUN-2004	0.3338	0.3658	2.5000	2.7041	mg/L	8	10	
IC03	P	624507963050	18-DEC-2004 06:19	624241562001	15-JUN-2004	0.3338	0.3428	0.2500	0.2648	mg/L	6	10	

CONTINUING CALIBRATION SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Analyte: Nitrogen, Nitrate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	624507963007	17-DEC-2004 17:08	624241562001	15-JUN-2004	0.3850	0.3642	0.2500	0.2399	mg/L	-4	10	
IC03	P	624507963018	17-DEC-2004 20:30	624241562001	15-JUN-2004	0.3850	0.3884	1.0000	1.0113	mg/L	1	10	
IC03	P	624507963036	18-DEC-2004 02:02	624241562001	15-JUN-2004	0.3850	0.4271	2.5000	2.7098	mg/L	8	10	
IC03	P	624507963050	18-DEC-2004 06:19	624241562001	15-JUN-2004	0.3850	0.3881	0.2500	0.2556	mg/L	2	10	
IC03	P	624507963064	18-DEC-2004 10:37	624241562001	15-JUN-2004	0.3850	0.4102	1.0000	1.0672	mg/L	7	10	

CONTINUING CALIBRATION SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Analyte: Sulfate

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg RF/CF	RF/CF	SpkAmt	QntAmt	Units	%D	Max %D	Flags
IC03	P	624507963007	17-DEC-2004 17:08	624241562001	15-JUN-2004	0.1240	0.1172	2.5000	2.4862	mg/L	-1	10	
IC03	P	624507963018	17-DEC-2004 20:30	624241562001	15-JUN-2004	0.1240	0.1199	10.000	9.9748	mg/L	0	10	
IC03	P	624507963036	18-DEC-2004 02:02	624241562001	15-JUN-2004	0.1240	0.1296	25.000	25.916	mg/L	4	10	
IC03	P	624507963050	18-DEC-2004 06:19	624241562001	15-JUN-2004	0.1240	0.1242	2.5000	2.6345	mg/L	5	10	
IC03	P	624507963064	18-DEC-2004 10:37	624241562001	15-JUN-2004	0.1240	0.1227	10.000	10.210	mg/L	2	10	

BLANK USER REPORT FOR 176728 IC Water
Curtis & Tompkins Laboratories
EPA 300.0

Instid	: IC03	Samplenum	: QC277185	Cident	:
Seqnum	: 624507963008	Matrix	: Water	Acctnum	: TREADWELL
Filename	: 352_8	Batchnum	: 97715	Injected	: 17-DEC-2004 17:26
IDF	: 1.0	PDF	: 1.0	Units	: mg/L
Calnum	: 624241562001	Caldate	: 15-JUN-2004	Caltype	:

Analyte	Result	RL	Flags
Fluoride	ND	0.10	u
Chloride	ND	0.20	u
Nitrogen, Nitrite	ND	0.05	u
Nitrogen, Nitrate	ND	0.05	u
Sulfate	ND	0.50	u

u=use

INSTRUMENT BLANK REPORT FOR 176728 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624507963019 Run Name: Injected: 17-DEC-2004 20:49
Filename: 352_19 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

INSTRUMENT BLANK REPORT FOR 176728 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624507963037 Run Name: Injected: 18-DEC-2004 02:20
Filename: 352_37 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

INSTRUMENT BLANK REPORT FOR 176728 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624507963051 Run Name: Injected: 18-DEC-2004 06:38
Filename: 352_51 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

INSTRUMENT BLANK REPORT FOR 176728 IC Water
Curtis & Tompkins Laboratories

Instrument: IC03 Ion Chromatograph
Seqnum: 624507963065 Run Name: Injected: 18-DEC-2004 10:56
Filename: 352_65 Run Type: CCB

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Req Flags
Fluoride	624241562001	15-JUN-2004	ND	0.100000	mg/L	<RL
Chloride	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrite	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Bromide	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Nitrogen, Nitrate	624241562001	15-JUN-2004	ND	0.050000	mg/L	<RL
Orthophosphate (as P)	624241562001	15-JUN-2004	ND	0.200000	mg/L	<RL
Sulfate	624241562001	15-JUN-2004	ND	0.500000	mg/L	<RL

SEQUENCE SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Sequence: 624241562 Instrument: IC03 Ion Chromatograph Begun: 15-JUN-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
001	167_1	IB				15-JUN-2004 18:02	1.0			25				
002	167_2	ICAL	L1			15-JUN-2004 18:20	1.0						1	
003	167_3	ICAL	L2			15-JUN-2004 18:38	1.0						1	
004	167_4	ICAL	L3			15-JUN-2004 18:57	1.0						1	
005	167_5	ICAL	L4			15-JUN-2004 19:15	1.0						1	
006	167_6	ICAL	L5			15-JUN-2004 19:34	1.0						1	
007	167_7	ICB				15-JUN-2004 19:52	1.0			25				
008	167_8	ICV				15-JUN-2004 20:10	1.0	1		25			2	
009	167_9	X	SHUTDOWN			15-JUN-2004 20:29	1.0							

380

Stds used: 1=04SS201 2=03WS1209

SEQUENCE SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Sequence: 624507963 Instrument: IC03 Ion Chromatograph Begun: 17-DEC-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
007	352_7	CCV	L	97715		17-DEC-2004 17:08	1.0	1	25			1	
008	352_8	CCB/MB	QC277185	97715	Water	17-DEC-2004 17:26	1.0	1	25				
009	352_9	BS	QC277186	97715	Water	17-DEC-2004 17:44	1.0	1	25			1	
010	352_10	BSD	QC277187	97715	Water	17-DEC-2004 18:03	1.0	1	25			1	
011	352_11	SAMPLE	176728-002	97715	Water	17-DEC-2004 18:21	1.0	3	25				3:SO4=79.9322
012	352_12	SAMPLE	176723-001	97715	Water	17-DEC-2004 18:40	1.0	1	25				1:CL=128.697
013	352_13	SAMPLE	176723-002	97715	Water	17-DEC-2004 18:58	1.0	1	25				1:CL=108.109
014	352_14	SAMPLE	176723-003	97715	Water	17-DEC-2004 19:17	1.0	1	25				1:CL=107.342
015	352_15	SAMPLE	176726-001	97715	Water	17-DEC-2004 19:35	1.0	1	25				1:CL=33.1365
016	352_16	SAMPLE	176726-002	97715	Water	17-DEC-2004 19:53	1.0	2	25				2:SO4=140.382
017	352_17	SAMPLE	176723-004	97715	Water	17-DEC-2004 20:12	1.0	1	25				1:CL=80.7454
018	352_18	CCV	M	97715		17-DEC-2004 20:30	1.0		25			1	
019	352_19	CCB		97715		17-DEC-2004 20:49	1.0		25				
020	352_20	X	CCV	97715		17-DEC-2004 21:07	1.0					1	
021	352_21	X	CCB	97715		17-DEC-2004 21:26	1.0						
022	352_22	SAMPLE	176726-003	97715	Water	17-DEC-2004 21:44	1.0	2	25				2:CL=52.8710
023	352_23	MSS	176726-004	97715	Water	17-DEC-2004 22:02	1.0	1	25				1:CL=85.7095
024	352_24	SAMPLE	176723-005	97715	Water	17-DEC-2004 22:21	1.0	2	25				2:SO4=69.7662
025	352_25	SAMPLE	176726-005	97715	Water	17-DEC-2004 22:39	1.0	2	25				2:NO2N=180.327
026	352_26	X	BLK	97715		17-DEC-2004 22:58	1.0						
027	352_27	SAMPLE	176726-005	97715	Water	17-DEC-2004 23:16	2.0	1	25				1:CL=129.964
028	352_28	X	BLK	97715		17-DEC-2004 23:34	1.0						
029	352_29	SAMPLE	176723-006	97715	Water	17-DEC-2004 23:53	1.0		25				
030	352_30	SAMPLE	176728-001	97715	Water	18-DEC-2004 00:11	1.0	3	25				3:SO4=90.7534
031	352_31	SAMPLE	176726-006	97715	Water	18-DEC-2004 00:30	1.0	2	25				2:CL=97.3168
032	352_32	X	BLK	97715		18-DEC-2004 00:48	1.0						
033	352_33	SAMPLE	176726-006	97715	Water	18-DEC-2004 01:06	2.0	1	25				1:CL=106.655
034	352_34	X	BLK	97715		18-DEC-2004 01:25	1.0						
035	352_35	SAMPLE	176728-002	97715	Water	18-DEC-2004 01:43	25.0		25				
036	352_36	CCV	H	97715		18-DEC-2004 02:02	1.0		25			1	
037	352_37	CCB		97715		18-DEC-2004 02:20	1.0		25				

Stds used: 1=04SS442

SEQUENCE SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Sequence: 624507963 Instrument: IC03 Ion Chromatograph Begun: 17-DEC-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK uL	VL	pH	Stds Used	>LR
038	352_38	X	CCV	97715		18-DEC-2004 02:38	1.0					1	
039	352_39	X	CCB	97715		18-DEC-2004 02:57	1.0						
040	352_40	SAMPLE	176723-001	97715	Water	18-DEC-2004 03:15	25.0		25				
041	352_41	SAMPLE	176723-002	97715	Water	18-DEC-2004 03:34	25.0		25				
042	352_42	SAMPLE	176723-003	97715	Water	18-DEC-2004 03:52	25.0		25				
043	352_43	SAMPLE	176726-001	97715	Water	18-DEC-2004 04:11	25.0		25				
044	352_44	SAMPLE	176726-002	97715	Water	18-DEC-2004 04:29	10.0		25				
045	352_45	SAMPLE	176723-004	97715	Water	18-DEC-2004 04:47	25.0		25				
046	352_46	SAMPLE	176726-003	97715	Water	18-DEC-2004 05:06	10.0		25				
047	352_47	MSS	176726-004	97715	Water	18-DEC-2004 05:24	25.0		25				
048	352_48	MS	QC277188	97715	Water	18-DEC-2004 05:43	50.0	1	25			1	
049	352_49	MSD	QC277189	97715	Water	18-DEC-2004 06:01	50.0	1	25			1	
050	352_50	CCV	L	97715		18-DEC-2004 06:19	1.0		25			1	
051	352_51	CCB		97715		18-DEC-2004 06:38	1.0		25				
052	352_52	X	CCV	97715		18-DEC-2004 06:56	1.0					1	
053	352_53	X	CCB	97715		18-DEC-2004 07:15	1.0						
054	352_54	SAMPLE	176723-005	97715	Water	18-DEC-2004 07:33	10.0		25				
055	352_55	SAMPLE	176726-005	97715	Water	18-DEC-2004 07:51	100.0		25				
056	352_56	SAMPLE	176723-006	97715	Water	18-DEC-2004 08:10	25.0		25				
057	352_57	SAMPLE	176728-001	97715	Water	18-DEC-2004 08:28	25.0		25				
058	352_58	SAMPLE	176726-006	97715	Water	18-DEC-2004 08:47	50.0		25				
059	352_59	SAMPLE	176723-008	97715	Water	18-DEC-2004 09:05	1.0	1	25				1:CL=33.8948
060	352_60	SAMPLE	176723-009	97715	Water	18-DEC-2004 09:24	1.0	3	25				3:SO4=53.3553
061	352_61	SAMPLE	176726-007	97715	Water	18-DEC-2004 09:42	1.0	3	25				3:SO4=82.6998
062	352_62	SAMPLE	176726-008	97715	Water	18-DEC-2004 10:00	1.0	3	25				3:SO4=82.8246
063	352_63	SAMPLE	176723-008	97715	Water	18-DEC-2004 10:19	10.0		25				
064	352_64	CCV	M	97715		18-DEC-2004 10:37	1.0		25			1	
065	352_65	CCB		97715		18-DEC-2004 10:56	1.0		25				
066	352_66	X	CCV	97715		18-DEC-2004 11:14	1.0					1	
067	352_67	X	CCB	97715		18-DEC-2004 11:32	1.0						
068	352_68	SAMPLE	176723-009	97715	Water	18-DEC-2004 11:51	10.0		25				

Stds used: 1=04SS442

SEQUENCE SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Sequence: 624507963 Instrument: IC03 Ion Chromatograph Begun: 17-DEC-2004
Analytical Method: EPA 300.0 SOP Version: ANIONS_300_rv6

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
069	352_69	SAMPLE	176726-007	97715	Water	18-DEC-2004 12:09	10.0			25				
070	352_70	SAMPLE	176726-008	97715	Water	18-DEC-2004 12:28	10.0			25				
071	352_71	SAMPLE	176726-005	97715	Water	18-DEC-2004 12:46	5.0	1		25				1:CL=124.929
072	352_72	X	BLK	97715		18-DEC-2004 13:04	1.0							
073	352_73	SAMPLE	176736-001	97715	Water	18-DEC-2004 13:23	5.0	2		25				2:CL=256.993
074	352_74	X	BLK	97715		18-DEC-2004 13:41	1.0							
075	352_75	SAMPLE	176736-001	97715	Water	18-DEC-2004 14:00	10.0	1		25				1:CL=165.082
076	352_76	X	BLK	97715		18-DEC-2004 14:18	1.0							
077	352_77	SAMPLE	176736-001	97715	Water	18-DEC-2004 14:36	500.0			25				
078	352_78	SAMPLE	176736-002	97715	Water	18-DEC-2004 14:55	25.0	1		25				1:CL=23.4880
079	352_79	SAMPLE	176736-002	97715	Water	18-DEC-2004 15:13	1.0	2		25				2:CL=158.643
080	352_80	X	BLK	97715		18-DEC-2004 15:32	1.0							
081	352_81	CCV	H	97715		18-DEC-2004 15:50	1.0			25			1	
082	352_82	CCB		97715		18-DEC-2004 16:09	1.0			25				
083	352_83	X	CCV	97715		18-DEC-2004 16:27	1.0						1	
084	352_84	X	CCB	97715		18-DEC-2004 16:45	1.0							
085	352_85	X	SHUTDOWN	97715		18-DEC-2004 17:04	1.0							

383

Stds used: 1=04SS442

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 IC Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	F	CL	NO2N	NO3N	SO4	
176728-001	IC03	12/18/04 00:11	1.0	+		+			
176728-001	IC03	12/18/04 08:28	25.0		+		+	+	
176728-002	IC03	12/17/04 18:21	1.0	+		+			
176728-002	IC03	12/18/04 01:43	25.0		+		+	+	
QC277185	IC03	12/17/04 17:26	1.0	+	+	+	+	+	
QC277186	IC03	12/17/04 17:44	1.0	+	+	+	+	+	
QC277187	IC03	12/17/04 18:03	1.0	+	+	+	+	+	
QC277188	IC03	12/18/04 05:43	50.0	+	+	+	+	+	
QC277189	IC03	12/18/04 06:01	50.0	+	+	+	+	+	

Curtis & Tompkins, Ltd. **Water Prep Log** Ion Chromatography

Analysis: ☑ Anions EPA 300 / EPA 9056
☐ Perchlorate (ClO_4) EPA 314
☐ Cr6+ EPA 7199

Batch#: 97715
Date Started: 12/17/04
Prep Chemist: MRS

BK 2052
Page 5

	Sample #		Conductivity	Estimated Dilution Factor	Filters Used	Comments
1	176723-001	E	1.20	1x / 25x	S	
2	-002	E	1.27	/ 25x		
3	-003	E	1.32	/ 25x		
4	-004	L	1.32	/ 25x		
5	-005	K	0.70	/ 10x		
6	-006	K	1.15	/ 25x		
7	-008	K	0.46	/ 10x		
8	-009	L	0.45	/ 10x		
9	176726-001	E	0.84	1x / 25x		
10	-002	E	0.74	/ 10x		
11	-003	E	0.68	/ 10x		
12	-004	M	1.68	/ 25x		MSS
13	-005	E	3.53	5x / 2x / 100x		
14	-006	E	2.25	/ 2x / 50x		
15	-007	H	0.53	/ 10x		
16	-008	H	0.54	/ 10x		
17	176728-001	F	1.01	1x / 25x		
18	-002	F	0.84	1x / 25x		
19	176736-001	K	5.88	10x / 5x / 500x		
20	-002	K	1.83	1x / 25x		RR @ 50x for Cl
	MB QC277185		N/A	1x	N/A	
	BS QC277186					
	BSD QC277187					
	MS QC277188	M		50x	S	
	MSD QC277189	M		50x	S	

	Mfg & Lot # / Time / Program	Initials / Date
Eluent Reagent ID	100x MCS 11/22/04	MRS 12/17/04
BS/BSD Spiked with 0.2 mL of :	0455442	
MS/MSD Spiked with 0.1 mL of :	0455442	
Filters Used: Ag: OnGuard II Ag	N/A	
Na: OnGuard II Na		
P: OnGuard II P		
RP: OnGuard ~~II RP~~		
S: 0.20um/0.45um	Acrodisc lot # A104208C4	

MRJ 12/17/04
Extraction Chemist / Date

Continued from page ___
Continued on page ___

Robert Nam 12/21/04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97715
Date Started: 17-DEC-2004
Batched by : Micah Smith

Analysis : N/A
Bgroup : IC
Department : GC Organics

Sample	Type		Client	Matrix	Analyses	Due Date
176723-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176723-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176723-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176723-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176723-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176723-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176723-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176723-009			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-003			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-004			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-005			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-006			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-007			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176726-008			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176728-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176728-002			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176736-001			Treadwell & Rollo	Water	CHLORIDE, FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
176736-002			Treadwell & Rollo	Water	FLUORIDE, NITRATE, NITRITE, SULFATE	30-DEC-2004
QC277185	MB			Water		
QC277186	BS			Water		
QC277187	BSD			Water		
QC277188	MS	of 176726-004		Water		
QC277189	MSD	of 176726-004		Water		

Curtis & Tompkins Laboratories
MDL Summary for EPA 300.0 Water

Analyte	Units	IC01		IC03	
Fluoride	mg/L	05/11/04	0.0046	05/26/04	0.0095
Chloride	mg/L	05/11/04	0.024	05/26/04	0.056
Nitrogen, Nitrite	mg/L	05/11/04	0.0083	05/26/04	0.011
Bromide	mg/L	05/11/04	0.038	05/26/04	0.031
Nitrogen, Nitrate	mg/L	05/11/04	0.0073	05/26/04	0.011
Orthophosphate (as P)	mg/L	05/11/04	0.028	05/26/04	0.045
Sulfate	mg/L	05/11/04	0.054	05/26/04	0.059

Curtis & Tompkins, Ltd.

Total Dissolved Solids (TDS)

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	97732
Matrix:	Water	Received:	12/17/04
Units:	mg/L	Analyzed:	12/21/04
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
BB3PZ101	SAMPLE	176728-001	870	10	12/16/04
BB3SW102	SAMPLE	176728-002	250	10	12/17/04
	BLANK	QC277257	ND	10	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2893.04.51	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	97732
Field ID:	ZZZZZZZZZZ	Sampled:	12/15/04
MSS Lab ID:	176649-001	Received:	12/15/04
Matrix:	Water	Analyzed:	12/21/04
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC277258		100.0	100.0		100	79-120			1.000
BSD	QC277259		100.0	106.0		106	79-120	6	20	1.000
SDUP	QC277260	17,660		18,080	100			2	20	10.00

RL= Reporting Limit
RPD= Relative Percent Difference

Analysis: **Total Dissolved Solids**
Method: **EPA160.1** / SMWW 2540c
Matrix: Water
SOP#: tds_rv 7.doc

Analysis Date: **21-Dec-04**
Batch #: **97732**
Analyst: RS

BATCH QC DATA

Sample	Sample Vol (mL)	DF 50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**	Reporting Limit (mg/L)	Spike Std Conc (mg/L)	Spike Vol.Used (mL)	Spiking Level (mg/L)	**Recovery,%**	**RPD,%**
MB	50	1	49.4718	49.4722	0.0004	ND	10					
BS	50	1	45.3185	45.3235	0.0050	100.0	10	1,000	5	100	**100**	
BSD	50	1	49.3658	49.3711	0.0053	106.0	10	1,000	5	100	**106**	**5.83**
176649-001	5	10	52.1764	52.2647	0.0883	17,660.0	100					
SDUP	5	10	52.7071	52.7975	0.0904	18,080.0	100					**2.35**

QC Limits	RPD	Recovery
LCS/ BS/ BSD	20	79 - 120
MS/ MSD	20	20 - 195

SAMPLE DATA

Sample	Sample Vol (mL)	DF 50/vol)	Initial Mass (g)	Constant Mass (g)	Residue Mass (g)	**Report (mg/L)**		Reporting Limit (mg/L)
176705-001	50	1	49.3907	49.4127	0.0220	440.0		10
176705-002	45	1.111	47.1699	47.2670	0.0971	2,157.8		11
176705-003	50	1	49.9360	49.9686	0.0326	652.0		10
176705-004	50	1	49.7884	49.8193	0.0309	618.0		10
176705-005	5	10	50.6340	50.8987	0.2647	52,940.0	****REDO****	100
176705-006	50	1	45.8207	45.8605	0.0398	796.0		10
176705-007	50	1	49.1152	49.1538	0.0386	772.0		10
176705-008	50	1	47.0375	47.0652	0.0277	554.0		10
176705-009	50	1	49.6264	49.6608	0.0344	688.0		10
176705-012	50	1	49.3720	49.3927	0.0207	414.0		10
176705-014	50	1	49.5143	49.5364	0.0221	442.0		10
176705-015	30	1.667	49.6967	49.7623	0.0656	2,186.7		17
176705-016	50	1	49.0474	49.0788	0.0314	628.0		10
176728-001	50	1	47.4075	47.4511	0.0436	872.0		10
176728-002	50	1	47.8372	47.8499	0.0127	254.0		10
176734-001	50	1	50.6433	50.6789	0.0356	712.0		10
176734-003	50	1	47.4880	47.4904	0.0024	48.0		10
176736-001	25	2	47.2621	47.3681	0.1060	4,240.0		20
176736-002	50	1	49.6388	49.7164	0.0776	1,552.0		10

Note: Because the regulatory holding time is based on the prep date, the analysis date referenced above is the prep date.

Reviewed by/ Date: _____

EPA 160.1 / SM 17 ed 2540C

Curtis & Tompkins, Ltd.

LIMS Batch #: 97732

Prep Date: 12-21-04
Prep Time: 17:40

Benchbook#: **BK2018**
Page: **29**

Filter Mfg/ Lot#: D1377555
Spike WS#: 04W52055

Spike WS Conc (mg/L): 1000
Spike Vol Added (mL): 5

	In	Out	In-2	Out-2	In-3	Out-3
Date:	12-21-04	12-21-04	12-22-04	12-22-04		
Time:	19:35	11:15	13:35	14:35		
Temp (C):	90°C	180°C	180°C	180°C		

Sample # / Letter	EC Value (uS/cm)	Sample Vol. Filtered (mL)	Dish ID	Dish Wt (g)	1st Dry Wt (g)	2nd Dry Wt (g)*	3rd Dry Wt (g)*
MB		50	CT	49.4718	49.4722	49.4720	
BS		50	8	45.3185	45.3235	45.3234	
BSD		50	MM	49.3658	49.3711	49.3710	
176649-001B	21,800	5	E	52.1764	52.2647	52.2642	
Dup -001B	21,800	5	XX	52.7071	52.7975	52.7974	
176705-001G	600	50	AE	49.3907	49.4127	49.4127	
-002H	2,450	45	K	47.1699	47.2670	47.2669	
-003I	800	50	7	49.9360	49.9686	49.9686	
-004J	800	50	m	49.7884	49.8193	49.8190	
-005K	10,[illegible]	5	SM	50.6340	50.8987	50.8986	
-006G	108[illegible]	50	7	45.8207	45.8605	45.8602	
-007E	1077	50	AY	49.1152	49.1538	49.1537	
-008F	1044	50	6	47.0375	47.0652	47.0650	
-009A	780	50	A	49.6264	49.6608	49.6611	
-012E	630	50	R	49.3720	49.3927	49.3924	
-014N	657	50	BL	49.5143	49.5364	49.5360	
-015K	6,080	30	4	49.6967	49.7623	49.7620	
-016L	1158	50	LS	49.0474	49.0788	49.0785	
176728-001F	1192	50	•	47.4075	47.4511	47.4510	
-002F	972	50	HP	47.8372	47.8499	47.8496	
176734-001S	953	50	L	50.6433	50.6789	50.6788	
-003K	1,64[illegible]	50	SY	47.4880	47.4904	47.4900	
176736-001K	7,000	25	40	47.2621	47.3681	47.3680	
-002N	2,330	50	1	49.6388	49.7164	49.7160	

* Constant weight must be within 0.0005 from previous reading.

RShiffa 12-21-04
Analyst / Date

12-23-04
Reviewed by / Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 97732
Date Started: 21-DEC-2004
Batched by : Radia Shiffa

Analysis : TDS
Bgroup : N/A
Department : Wet Chemistry

Sample	Type	Client	Matrix	Analyses	Due Date
176649-001		Acme Fill Corp.	Water	TDS	28-DEC-2004
176705-001		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-002		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-003		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-004		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-005		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-006		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-007		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-008		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-009		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-012		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-014		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-015		Treadwell & Rollo	Water	TDS	29-DEC-2004
176705-016		Treadwell & Rollo	Water	TDS	29-DEC-2004
176728-001		Treadwell & Rollo	Water	TDS	30-DEC-2004
176728-002		Treadwell & Rollo	Water	TDS	30-DEC-2004
176734-001		Treadwell & Rollo	Water	TDS	30-DEC-2004
176734-003		Treadwell & Rollo	Water	TDS	30-DEC-2004
176736-001		Treadwell & Rollo	Water	TDS	30-DEC-2004
176736-002		Treadwell & Rollo	Water	TDS	30-DEC-2004
QC277257	MB		Water	TDS	
QC277258	BS		Water	TDS	
QC277259	BSD		Water	TDS	
QC277260	SDUP of 176649-001		Water	TDS	

AMENDED

METALS

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3PZ101	Sampled:	12/16/04
Lab ID:	176728-001	Received:	12/17/04
Matrix:	Filtrate	Prepared:	03/03/05
Units:	ug/L	Analyzed:	03/03/05
Batch#:	99662		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	74	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	31,000	5,000	10.00
Chromium	ND	10	1.000
Cobalt	ND	10	1.000
Copper	3.3	1.0	1.000
Iron	260	100	1.000
Lead	ND	3.0	1.000
Magnesium	87,000	5,000	10.00
Manganese	49	10	1.000
Nickel	ND	20	1.000
Potassium	1,500	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	92,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Sampled:	12/17/04
Lab ID:	176728-002	Received:	12/17/04
Matrix:	Filtrate	Prepared:	03/03/05
Units:	ug/L	Analyzed:	03/03/05
Batch#:	99662		

Analyte	Result	RL	Diln Fac
Aluminum	ND	100	1.000
Antimony	ND	1.0	1.000
Arsenic	ND	5.0	1.000
Barium	37	10	1.000
Beryllium	ND	2.0	1.000
Cadmium	ND	1.0	1.000
Calcium	24,000	5,000	10.00
Chromium	36	10	1.000
Cobalt	ND	10	1.000
Copper	2.6	1.0	1.000
Iron	ND	100	1.000
Lead	ND	3.0	1.000
Magnesium	83,000	5,000	10.00
Manganese	18	10	1.000
Nickel	ND	20	1.000
Potassium	1,100	500	1.000
Selenium	ND	5.0	1.000
Silver	ND	1.0	1.000
Sodium	59,000	5,000	10.00
Thallium	ND	1.0	1.000
Vanadium	ND	10	1.000
Zinc	ND	20	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC284513	Batch#:	99662
Matrix:	Filtrate	Prepared:	03/03/05
Units:	ug/L	Analyzed:	03/03/05

Analyte	Result	RL
Aluminum	ND	100
Antimony	ND	1.0
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	1.0
Calcium	ND	500
Chromium	ND	10
Cobalt	ND	10
Copper	ND	1.0
Iron	ND	100
Lead	ND	3.0
Magnesium	ND	500
Manganese	ND	10
Nickel	ND	20
Potassium	ND	500
Selenium	ND	5.0
Silver	ND	1.0
Sodium	ND	500
Thallium	ND	1.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Matrix:	Filtrate	Batch#:	99662
Units:	ug/L	Prepared:	03/03/05
Diln Fac:	1.000	Analyzed:	03/03/05

Type: BS Lab ID: QC284514

Analyte	Spiked	Result	%REC	Limits
Aluminum	100.0	100.2	100	80-120
Antimony	100.0	98.68	99	80-120
Arsenic	100.0	97.63	98	80-120
Barium	100.0	98.09	98	80-120
Beryllium	100.0	99.07	99	80-120
Cadmium	100.0	101.2	101	80-120
Calcium	10,000	9,939	99	80-120
Chromium	100.0	98.05	98	80-120
Cobalt	100.0	100.0	100	80-120
Copper	100.0	100.1	100	80-120
Iron	10,000	10,030	100	80-120
Lead	100.0	95.75	96	80-120
Magnesium	10,000	9,953	100	80-120
Manganese	100.0	100.2	100	80-120
Nickel	100.0	98.08	98	80-120
Potassium	10,000	9,685	97	80-120
Selenium	100.0	97.79	98	80-120
Silver	100.0	98.91	99	80-120
Sodium	10,000	9,810	98	80-120
Thallium	100.0	87.38	87	80-120
Vanadium	100.0	97.38	97	80-120
Zinc	100.0	96.86	97	80-120

Type: BSD Lab ID: QC284515

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aluminum	100.0	98.32	98	80-120	2	20
Antimony	100.0	101.2	101	80-120	3	20
Arsenic	100.0	98.91	99	80-120	1	20
Barium	100.0	101.7	102	80-120	4	20
Beryllium	100.0	96.42	96	80-120	3	20
Cadmium	100.0	103.8	104	80-120	3	20
Calcium	10,000	10,050	101	80-120	1	20
Chromium	100.0	97.13	97	80-120	1	20
Cobalt	100.0	101.1	101	80-120	1	20
Copper	100.0	100.4	100	80-120	0	20
Iron	10,000	10,080	101	80-120	0	20
Lead	100.0	97.58	98	80-120	2	20
Magnesium	10,000	9,975	100	80-120	0	20
Manganese	100.0	98.98	99	80-120	1	20
Nickel	100.0	98.15	98	80-120	0	20
Potassium	10,000	9,746	97	80-120	1	20
Selenium	100.0	103.7	104	80-120	6	20
Silver	100.0	101.0	101	80-120	2	20
Sodium	10,000	9,834	98	80-120	0	20
Thallium	100.0	89.19	89	80-120	2	20
Vanadium	100.0	97.16	97	80-120	0	20
Zinc	100.0	96.84	97	80-120	0	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Sampled:	12/17/04
MSS Lab ID:	176728-002	Received:	12/17/04
Matrix:	Filtrate	Prepared:	03/03/05
Units:	ug/L	Analyzed:	03/03/05
Batch#:	99662		

Type: MS Lab ID: QC284516

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln Fac
Aluminum	3.616	100.0	101.0	97	75-125	1.000
Antimony	0.3384	100.0	103.6	103	75-125	1.000
Arsenic	1.693	100.0	101.1	99	75-125	1.000
Barium	37.32	100.0	141.9	105	75-125	1.000
Beryllium	<0.1383	100.0	99.68	100	75-125	1.000
Cadmium	<0.1982	100.0	98.17	98	75-125	1.000
Calcium	23,980	10,000	35,080	111	75-125	2.000
Chromium	36.40	100.0	133.7	97	75-125	1.000
Cobalt	0.3083	100.0	96.63	96	75-125	1.000
Copper	2.583	100.0	97.60	95	75-125	1.000
Iron	55.49	10,000	9,905	98	75-125	1.000
Lead	0.3949	100.0	99.40	99	75-125	1.000
Magnesium	82,820	10,000	88,550 >LR	57 *	NM 75-125	1.000
Manganese	17.82	100.0	116.6	99	75-125	1.000
Nickel	7.025	100.0	101.0	94	75-125	1.000
Potassium	1,050	10,000	10,410	94	75-125	1.000
Selenium	3.117	100.0	95.41	92	75-125	1.000
Silver	<0.1570	100.0	96.78	97	75-125	1.000
Sodium	59,430	10,000	65,610 >LR	62 *	NM 75-125	1.000
Thallium	0.6444	100.0	91.88	91	75-125	1.000
Vanadium	3.774	100.0	102.1	98	75-125	1.000
Zinc	3.115	100.0	97.53	94	75-125	1.000

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Sampled:	12/17/04
MSS Lab ID:	176728-002	Received:	12/17/04
Matrix:	Filtrate	Prepared:	03/03/05
Units:	ug/L	Analyzed:	03/03/05
Batch#:	99662		

Type: MSD Lab ID: QC284517

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
Aluminum	100.0	101.9	98	75-125	1	20	1.000
Antimony	100.0	101.3	101	75-125	2	20	1.000
Arsenic	100.0	100.4	99	75-125	1	20	1.000
Barium	100.0	139.1	102	75-125	2	20	1.000
Beryllium	100.0	100.8	101	75-125	1	20	1.000
Cadmium	100.0	98.20	98	75-125	0	20	1.000
Calcium	10,000	35,670	117	75-125	2	20	2.000
Chromium	100.0	134.6	98	75-125	1	20	1.000
Cobalt	100.0	97.29	97	75-125	1	20	1.000
Copper	100.0	96.81	94	75-125	1	20	1.000
Iron	10,000	9,906	99	75-125	0	20	1.000
Lead	100.0	98.26	98	75-125	1	20	1.000
Magnesium	10,000	87,660 >LR	48 *	NM 75-125	NC	20	1.000
Manganese	100.0	116.9	99	75-125	0	20	1.000
Nickel	100.0	101.3	94	75-125	0	20	1.000
Potassium	10,000	10,480	94	75-125	1	20	1.000
Selenium	100.0	96.60	93	75-125	1	20	1.000
Silver	100.0	95.28	95	75-125	2	20	1.000
Sodium	10,000	65,420 >LR	60 *	NM 75-125	NC	20	1.000
Thallium	100.0	90.91	90	75-125	1	20	1.000
Vanadium	100.0	102.8	99	75-125	1	20	1.000
Zinc	100.0	96.05	93	75-125	2	20	1.000

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Target Analyte List Metals

Lab #:	176728	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	200.8
Project#:	2893.04.51	Analysis:	EPA 6020
Field ID:	BB3SW102	Units:	ug/L
Type:	Serial Dilution	Batch#:	99662
MSS Lab ID:	176728-002	Sampled:	12/17/04
Lab ID:	QC284518	Received:	12/17/04
Matrix:	Filtrate	Analyzed:	03/03/05

Analyte	MSS Result	MSS RL	Result	RL	% Diff	Lim	Diln Fac
Aluminum	ND	100.0	5.6 J	250		10	5.000
Antimony	ND	1.000	ND	5.0		10	5.000
Arsenic	ND	5.000	ND	5.0		10	5.000
Barium	37.32	10.00	37	5.0	1	10	5.000
Beryllium	ND	2.000	ND	5.0		10	5.000
Cadmium	ND	1.000	ND	5.0		10	5.000
Calcium	23,980	5,000	22,000	2,500	10	10	50.00
Chromium	36.40	10.00	36	5.0	1	10	5.000
Cobalt	ND	10.00	ND	5.0		10	5.000
Copper	2.583	1.000	2.5 J	5.0		10	5.000
Iron	ND	100.0	51 J	250		10	5.000
Lead	ND	3.000	0.26 J	5.0		10	5.000
Magnesium	82,820	5,000	82,000	2,500	1	10	50.00
Manganese	17.82	10.00	18	5.0	1	10	5.000
Nickel	ND	20.00	6.3	5.0	10	10	5.000
Potassium	1,050	500.0	1,100	250	7	10	5.000
Selenium	ND	5.000	ND	5.0		10	5.000
Silver	ND	1.000	ND	5.0		10	5.000
Sodium	59,430	5,000	57,000	2,500	4	10	50.00
Thallium	ND	1.000	ND	5.0		10	5.000
Vanadium	ND	10.00	3.6 J	5.0		10	5.000
Zinc	ND	20.00	ND	5.0		10	5.000

J= Estimated value
ND= Not Detected
RL= Reporting Limit

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS Reviewed By: ---
Calnum: 55090102001 Name: Type: (normal) Date: 03-MAR-2005 13:53 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	c0313004	55090102004	CS1	03-MAR-2005 13:58	05WS0211
2	c0313005	55090102005	CS2	03-MAR-2005 14:03	05WS0212
3	c0313006	55090102006	CS3	03-MAR-2005 14:08	05WS0213
4	c0313007	55090102007	CS4	03-MAR-2005 14:14	05WS0214
5	c0313008	55090102008	CS5	03-MAR-2005 14:19	05WS0209
6	c0313009	55090102009	CS6	03-MAR-2005 14:24	05WS0210

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	%RSD	r^2 MnR^2	Flags
Aluminum		1.2968	0.8484	0.3729	0.3543	0.3474	BLNK	R	-1.11920	2.886494		ug/L	0.6440	1.000	0.995	
Antimony	0.1854	0.1544	0.1585	0.1446	0.1471	0.1499	BLNK	R	-0.06657	6.699304		ug/L	0.1566	1.000	0.995	
Arsenic		-0.096	0.0517	0.2651	0.2780	0.2730	BLNK	R	0.606428	3.636533		ug/L	0.1543	1.000	0.995	
Barium	0.0926	0.0690	0.0642	0.0547	0.0542	0.0543	BLNK	R	-0.13641	18.43529		ug/L	0.0648	1.000	0.995	
Beryllium	0.1377	0.1203	0.1044	0.1027	0.1057	0.1054	BLNK	R	-0.08370	9.485053		ug/L	0.1127	1.000	0.995	
Cadmium	0.6106	0.4392	0.3627	0.2675	0.2496	0.2463	BLNK	R	-0.37210	4.058275		ug/L	0.3626	1.000	0.995	
Calcium		0.0171	0.0141	0.0113	0.0119	0.0115	BLNK	R	-27.5709	86.79152		ug/L	0.0132	1.000	0.995	
Chromium		4.6861	3.4104	2.3270	2.4097	2.3234	BLNK	R	-0.52193	0.428612		ug/L	3.0313	1.000	0.995	
Cobalt	2.9130	2.6213	2.5262	2.4267	2.6143	2.5240	BLNK	R	-0.02763	0.393482		ug/L	2.6042	1.000	0.995	
Copper		0.8119	0.6912	0.5973	0.5743	0.5589	BLNK	R	-0.19001	1.781263		ug/L	0.6467	1.000	0.995	
Iron		0.0919	0.0736	0.0588	0.0617	0.0593	BLNK	R	-27.2073	16.76065		ug/L	0.0690	1.000	0.995	
Lead	0.7741	0.6731	0.6571	0.6330	0.6569	0.6966	BLNK	R	-0.04896	1.452720		ug/L	0.6818	0.999	0.995	
Magnesium		0.0413	0.0405	0.0459	0.0421	0.0408	BLNK	R	-0.79621	24.35576		ug/L	0.0421	1.000	0.995	
Manganese	4.5688	3.6794	3.2972	2.8733	3.0702	2.9414	BLNK	R	-0.12875	0.337309		ug/L	3.4051	1.000	0.995	
Molybdenum		0.6702	0.6628	0.5766	0.5794	0.5730	BLNK	R	-0.11777	1.742616		ug/L	0.6124	1.000	0.995	
Nickel	1.2693	0.8707	0.7044	0.5389	0.5167	0.5054	BLNK	R	-0.30774	1.973277		ug/L	0.7343	1.000	0.995	
Potassium		1.0689	0.7288	0.4111	0.3667	0.3648	BLNK	R	-87.0265	2.752534		ug/L	0.5880	1.000	0.995	
Selenium		1.9331	1.0529	0.1272	0.0294	0.0232	BLNK	R	-54.4399	54.20194		ug/L	0.6332	0.998	0.995	
Silver	1.5329	1.4594	1.3810	1.2975	1.2602	1.2789	BLNK	R	-0.03416	0.784348		ug/L	1.3683	1.000	0.995	
Sodium		0.5119	0.4799	0.4222	0.4072	0.3976	BLNK	R	-7.75053	2.504077		ug/L	0.4438	1.000	0.995	

Curves: BLNK: Y=aX+[blank]

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MET05 Agilent ICP-MS Reviewed By: ---
Calnum: 55090102001 Name: Type: (normal) Date: 03-MAR-2005 13:53 Inj Vol (uL): 1

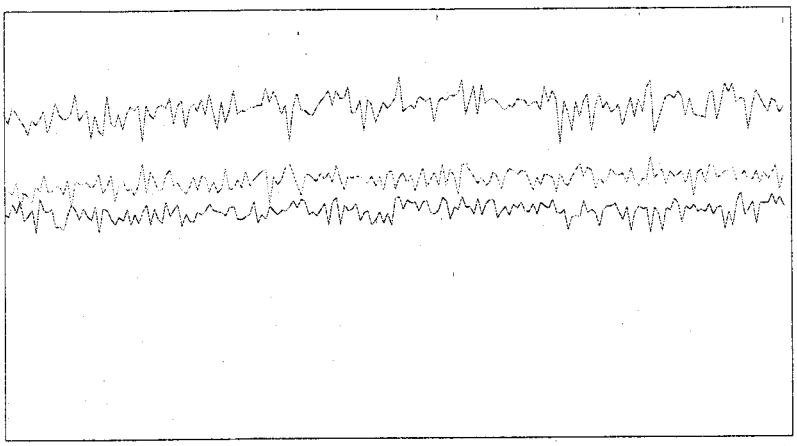
Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	r^2 %RSD	MnR^2	Flags
Thallium		0.5347	0.5074	0.4836	0.5215	0.5657	BLNK	R	-0.07553	1.796969		ug/L	0.5226	0.998	0.995	
Vanadium		3.5499	3.0407	2.5448	2.8916	2.7927	BLNK	R	-0.17394	0.356006		ug/L	2.9639	1.000	0.995	
Zinc		1.9415	1.1188	0.3731	0.2904	0.2745	BLNK	R	-2.87089	3.662489		ug/L	0.7997	0.999	0.995	

402

Curves: BLNK: Y=aX+[blank]
Instrument amount = a0 + response * a1 + response^2 * a2

Tune Report

Tune File : Autotune.u



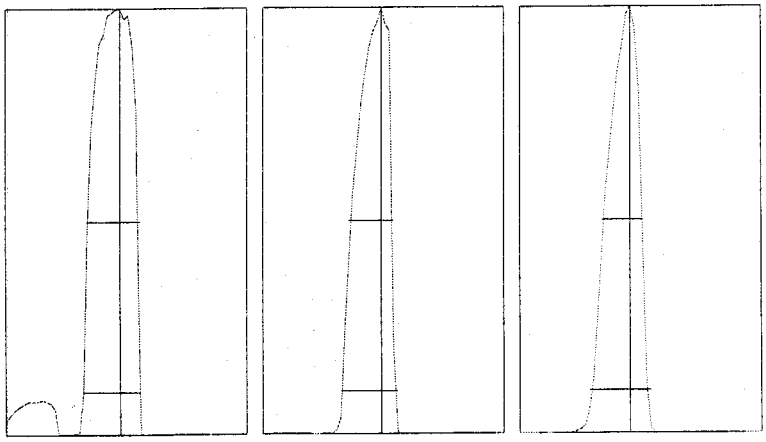
m/z:	7	89	205
Range:	50,000	50,000	50,000
Count:	26,953	38,549	30,808
Mean:	26503.5	38623.3	30189.0
RSD%:	3.68	3.67	3.41
n:	200		

Integration Time: 0.1000 sec
Sampling Period: 0.3100 sec

Oxide:	156/140	0.38%
Doubly Charged:	70/140	1.22%

Background:

m/z:	7	89	205
Cps:	191.6	141.3	132.8



m/z:	7	89	205
Height:	26,804	38,993	38,735
Axis:	6.95	89.00	204.90
W-50%:	0.65	0.55	0.50
W-10%:	0.700	0.700	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Tuning Parameters

===Plasma Condition===		===Ion Lenses===		===Q-Pole Parameters===	
RF Power:	1250 W	Extract 1:	-152.9 V	AMU Gain:	128
RF Matching:	1.7 V	Extract 2:	-44 V	AMU Offset:	128
Smpl Depth:	8.2 mm	Einzel 1,3:	-120 V	Axis Gain:	1.0002
Torch-H:	1.1 mm	Einzel 2:	11 V	Axis Offset:	-0.04
Torch-V:	-0.3 mm	Omega Bias:	-38 V	QP Bias:	2 V
Carrier Gas:	1.07 L/min	Omega (+):	5.4 V		
Makeup Gas:	0 L/min	Omega (-):	-5 V	===Detector Parameters===	
Optional Gas:	--- %	QP Focus:	5 V	Discriminator:	9.5 mV
PeriPump1:	0.1 rps	Plate Bias:	0 V	Analog HV:	1950 V
PeriPump2:	--- rps			Pulse HV:	1620 V
S/C Temp:	2 degC				

Generated : Mar 03, 2005 10:13:45
Printed : Mar 03, 2005 10:13:52

P/A Factor Tuning Report

Acquired:Mar 3 2005 11:19 am

Mass[amu]	Element	P/A Factor
6	Li	0.067838
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.085050
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.092191
45	Sc	0.090015
51	V	0.091407
52	Cr	0.091939
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.092835
57	Fe	0.094148
59	Co	0.093643
60	Ni	Sensitivity too low
63	Cu	0.092654
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.093520
95	Mo	Sensitivity too low
98	Mo	0.091092
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.093142
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.094862
118	(In)	Sensitivity too low
121	Sb	0.092428
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.096732
166	Er	Sensitivity too low

205	Tl	0.096171
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.094958
209	Bi	0.096154
232	Th	0.096986
238	U	0.097177

===Detector Parameters===
Discriminator: 9.5 mV
Analog HV: 1950 V
Pulse HV: 1620 V

P/A Factor Tuning Report

Acquired:Mar 3 2005 11:25 am

Mass[amu]	Element	P/A Factor
6	Li	0.067933
9	Be	Sensitivity too low
23	Na	Sensitivity too high
25	Mg	Sensitivity too high
26	Mg	Sensitivity too high
27	Al	0.085176
39	K	Sensitivity too high
43	Ca	Sensitivity too low
44	Ca	0.092732
45	Sc	0.090412
51	V	0.091660
52	Cr	0.092134
53	Cr	Sensitivity too low
54	Fe	Sensitivity too high
55	Mn	0.093275
57	Fe	0.094461
59	Co	0.093945
60	Ni	Sensitivity too low
63	Cu	0.093363
65	Cu	Sensitivity too low
66	Zn	Sensitivity too low
72	Ge	Sensitivity too low
75	As	Sensitivity too low
77	(As)	Sensitivity too low
82	Se	Sensitivity too low
83	(As)	Sensitivity too low
88	(Ca)	Sensitivity too low
89	Y	0.093461
95	Mo	Sensitivity too low
98	Mo	0.091127
99	(Mo)	Sensitivity too low
106	(Cd)	Sensitivity too low
108	(Cd)	Sensitivity too low
109	Ag	0.093468
111	Cd	Sensitivity too low
114	Cd	Sensitivity too low
115	In	0.094838
118	(In)	0.095508
121	Sb	0.093150
135	Ba	Sensitivity too low
137	Ba	Sensitivity too low
159	Tb	0.096835
166	Er	Sensitivity too low

205	Tl	0.096549
206	(Pb)	Sensitivity too low
207	(Pb)	Sensitivity too low
208	Pb	0.095252
209	Bi	0.095597
232	Th	0.096029
238	U	0.095842

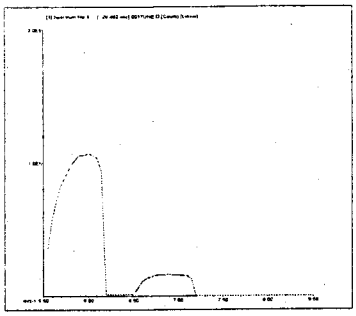
===Detector Parameters===
Discriminator: 9.5 mV
Analog HV: 1950 V
Pulse HV: 1620 V

6020 QC Tune Report

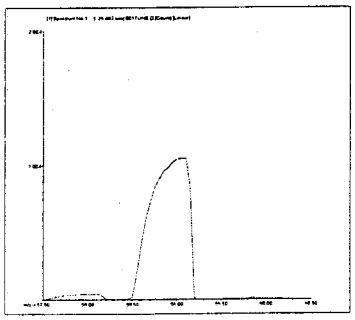
Data File: C:\ICPCHEM\1\DATA\05C0313b.B\001TUNE.D
Date Acquired: Mar 3 2005 01:42 pm
Acq. Method: TN6020.M
Operator:
Sample Name: tune,05ws0208
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\TN6020.M

RSD (%)

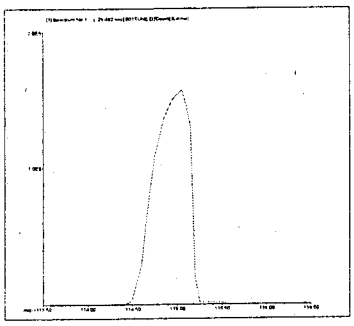
Element	Actual	Required	Flag
7 Li	2.15	5.00	
59 Co	3.82	5.00	
115 In	3.20	5.00	
205 Tl	1.88	5.00	



7 Li
Mass Calib.
Actual: 6.90
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



115 In

Mass Calib.

Actual: 115.05

Required: 114.90 - 115.10

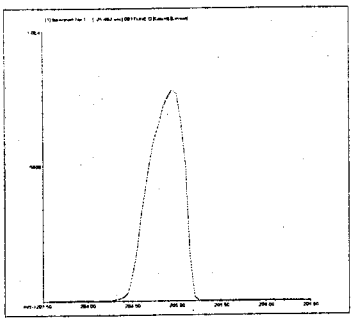
Flag:

Peak Width

Actual: 0.55

Required: 0.90

Flag:



205 Tl

Mass Calib.

Actual: 204.95

Required: 204.90 - 205.10

Flag:

Peak Width

Actual: 0.60

Required: 0.90

Flag:

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\002BLNK.D\002BLNK.D#
Date Acquired: Mar 3 2005 01:47 pm
Acq. Method: 60200111.M
Operator:
Sample Name: rinse
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal. Update: Mar 03 2005 00:16 pm
Sample Type: 6-Blank
Dilution Factor: 1.00

QC Elements

Element	Corr. Conc.		RSD(%)	Raw Conc.	High Limit	Flag
9 Be	0.005451	ppb	462.48	0.005451	1.00	
23 Na	-3.76	ppb	4.94	-3.76	1.00	
26 Mg	-0.1116	ppb	42.58	-0.1116	1.00	
27 Al	-0.2502	ppb	2.92	-0.2502	1.00	
39 K	-28.46	ppb	26.24	-28.46	1.00	
44 Ca	0.1237	ppb	121.99	0.1237	1.00	
51 V	-0.009417	ppb	142.72	-0.009417	1.00	
52 Cr	-0.03057	ppb	72.10	-0.03057	1.00	
55 Mn	-0.02174	ppb	37.66	-0.02174	1.00	
57 Fe	-1.294	ppb	65.86	-1.294	1.00	
59 Co	0.01022	ppb	25.75	0.01022	1.00	
60 Ni	-0.3076	ppb	6.17	-0.3076	1.00	
65 Cu	0.005249	ppb	488.86	0.005249	1.00	
66 Zn	-0.1142	ppb	48.77	-0.1142	1.00	
75 As	-0.327	ppb	112.84	-0.327	1.00	
82 Se	-0.66	ppb	327.27	-0.66	1.00	
95 Mo	-0.002254	ppb	364.37	-0.002254	1.00	
109 Ag	0.002307	ppb	486.35	0.002307	1.00	
111 Cd	-0.05897	ppb	56.50	-0.05897	1.00	
121 Sb	-0.0407	ppb	21.81	-0.0407	1.00	
137 Ba	0.02262	ppb	124.31	0.02262	1.00	
205 Tl	-0.03503	ppb	18.98	-0.03503	1.00	
208 Pb	-0.01543	ppb	17.52	-0.01543	1.00	
232 Th	----	ppb	--------	----	1.00	
238 U	----	ppb	--------	----	1.00	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1047346.10	4.30	---	#VALUE!	30 - 200	
45 Sc	1149261.90	5.75	---	#VALUE!	30 - 200	
72 Ge	201886.23	4.89	---	#VALUE!	30 - 200	

115 In	1367291.80	4.08	---	#VALUE!	30 - 200
209 Bi	781838.69	3.57	---	#VALUE!	30 - 200

ISTD Ref File : ---

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 5 :Max. Nnumber of ISTD Failures Allowed

QC Results:

Analytes: Pass
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\003CAL
Date Acquired: Mar 3 2005 01:53 pm
Operator:
Sample Name: std-blk
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 03 2005 00:16 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1070638.00	A	35560.00	3.32
9	Be	188.89	P	6.94	3.67
23	Na	72718.88	P	5023.00	6.91
26	Mg	767.78	P	51.68	6.73
27	Al	9106.67	P	550.50	6.05
39	K	744322.38	M	98410.00	13.22
44	Ca	7458.36	P	355.90	4.77
45	Sc	1173927.00	A	54920.00	4.68
51	V	1998.56	P	732.00	36.63
52	Cr	5000.00	P	141.80	2.84
55	Mn	1570.00	P	123.50	7.87
57	Fe	6665.56	P	295.10	4.43
59	Co	287.78	P	12.62	4.39
60	Ni	638.89	P	35.01	5.48
65	Cu	436.66	P	47.26	10.82
66	Zn	3221.12	P	171.60	5.33
72	Ge	205450.41	P	9311.00	4.53
75	As	-673.16	P	399.30	59.32
82	Se	4126.36	P	169.90	4.12
95	Mo	276.67	P	29.63	10.71
109	Ag	177.78	P	34.05	19.15
111	Cd	375.81	P	29.38	7.82
115	In	1370265.00	A	24670.00	1.80
121	Sb	272.22	P	1.93	0.71
137	Ba	202.22	P	48.57	24.02
205	Tl	663.33	P	114.10	17.20
208	Pb	531.11	P	63.36	11.93
209	Bi	788188.50	A	23170.00	2.94
232	Th	183.33	P	37.86	20.65
238	U	111.11	P	27.95	25.16

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\004CALI.D\004CALI.D#
Date Acquired: Mar 3 2005 01:58 pm
Operator:
Sample Name: CS1,05WS0211
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 03 2005 01:55 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1067051.00	A	40000.00	3.75
9	Be	734.44	P	71.67	9.76
23	Na	321778.91	P	24600.00	7.65
26	Mg	25962.22	P	2235.00	8.61
27	Al	13618.89	P	1104.00	8.11
39	K	1080423.00	A	68920.00	6.38
44	Ca	14294.51	P	805.10	5.63
45	Sc	1209026.00	A	66120.00	5.47
51	V	4631.02	P	501.60	10.83
52	Cr	7231.11	P	240.80	3.33
55	Mn	4746.67	P	201.90	4.25
57	Fe	13068.89	P	1057.00	8.09
59	Co	3031.11	P	298.80	9.86
60	Ni	1318.89	P	81.94	6.21
65	Cu	1464.33	P	71.82	4.90
66	Zn	4547.91	P	164.10	3.61
72	Ge	207856.70	P	10820.00	5.21
75	As	-217.69	P	357.10	164.04
82	Se	4392.28	P	218.00	4.96
95	Mo	822.22	P	35.95	4.37
109	Ag	1594.44	P	134.80	8.45
111	Cd	633.07	P	12.38	1.96
115	In	1379410.00	A	27570.00	2.00
121	Sb	1278.89	P	63.63	4.98
137	Ba	638.89	P	37.47	5.86
205	Tl	2540.00	P	182.30	7.18
208	Pb	3041.11	P	83.29	2.74
209	Bi	785606.69	A	12620.00	1.61
232	Th	1847.78	P	68.50	3.71
238	U	2480.00	P	73.56	2.97

ISTD Elements

C:\ICPCHEM\1\DATA\05C0313b.B\004CALI.D\004CALI.D#

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1067051.10	3.75	1070638.10	99.7	30 - 200	
45 Sc	1209025.90	5.47	1173927.40	103.0	30 - 200	
72 Ge	207856.67	5.21	205450.44	101.2	30 - 200	
115 In	1379410.50	2.00	1370264.60	100.7	30 - 200	
209 Bi	785606.75	1.61	788188.50	99.7	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\05C0313b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\005CALI.D\005CALI.D#
Date Acquired: Mar 3 2005 02:03 pm
Operator:
Sample Name: CS2,05WS0212
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 03 2005 02:00 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1086279.00	A	56950.00	5.24
9 Be	1304.44	P	36.72	2.82
23 Na	625618.13	A	60720.00	9.71
26 Mg	50412.22	P	3721.00	7.38
27 Al	15837.78	P	1293.00	8.16
39 K	1304244.00	A	79640.00	6.11
44 Ca	20827.98	P	1369.00	6.57
45 Sc	1220205.00	A	71740.00	5.88
51 V	7508.35	P	556.50	7.41
52 Cr	9910.00	P	305.50	3.08
55 Mn	7778.89	P	238.30	3.06
57 Fe	19441.11	P	654.10	3.36
59 Co	5550.00	P	390.10	7.03
60 Ni	1843.33	P	107.30	5.82
65 Cu	1717.56	P	71.28	4.15
66 Zn	4104.70	P	80.73	1.97
72 Ge	211612.41	P	9519.00	4.50
75 As	-203.70	P	305.40	149.93
82 Se	4095.72	P	348.60	8.51
95 Mo	1418.89	P	100.40	7.08
109 Ag	3086.67	P	124.10	4.02
111 Cd	930.03	P	67.04	7.21
115 In	1412982.00	A	43840.00	3.10
121 Sb	2181.11	P	37.91	1.74
137 Ba	974.44	P	35.95	3.69
205 Tl	4238.89	P	152.50	3.60
208 Pb	5334.44	P	132.80	2.49
209 Bi	792632.69	A	7681.00	0.97
232 Th	3655.55	P	54.81	1.50
238 U	4674.44	P	184.60	3.95

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1086279.10	5.24	1070638.10	101.5	30 - 200	
45 Sc	1220204.50	5.88	1173927.40	103.9	30 - 200	
72 Ge	211612.44	4.50	205450.44	103.0	30 - 200	
115 In	1412981.90	3.10	1370264.60	103.1	30 - 200	
209 Bi	792632.75	0.97	788188.50	100.6	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\05C0313b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\006CALI.D\006CALI.D#
Date Acquired: Mar 3 2005 02:08 pm
Operator:
Sample Name: CS3,05WS0213
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 03 2005 02:05 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)
6 Li	1037985.00	A	56590.00	5.45
9 Be	2166.67	P	98.38	4.54
23 Na	1080070.00	A	82990.00	7.68
26 Mg	91250.00	P	6820.00	7.47
27 Al	19094.44	P	1530.00	8.01
39 K	1639446.00	A	99700.00	6.08
44 Ca	31786.17	P	1771.00	5.57
45 Sc	1124155.00	A	44420.00	3.95
51 V	12139.61	P	647.70	5.34
52 Cr	13611.11	P	512.00	3.76
55 Mn	13153.33	P	279.40	2.12
57 Fe	29371.11	P	1238.00	4.22
59 Co	10082.22	P	660.70	6.55
60 Ni	2813.33	P	210.90	7.50
65 Cu	2758.50	P	99.99	3.62
66 Zn	4463.79	P	181.70	4.07
72 Ge	199607.30	P	8960.00	4.49
75 As	200.47	P	222.10	110.79
82 Se	4197.25	P	48.46	1.15
95 Mo	2641.11	P	57.48	2.18
109 Ag	5513.33	P	257.00	4.66
111 Cd	1447.65	P	60.94	4.21
115 In	1341326.00	A	36890.00	2.75
121 Sb	4253.33	P	235.20	5.53
137 Ba	1723.33	P	156.70	9.09
205 Tl	7750.00	P	254.10	3.28
208 Pb	10038.89	P	335.50	3.34
209 Bi	763766.19	A	13280.00	1.74
232 Th	7021.11	P	27.15	0.39
238 U	8824.44	P	155.60	1.76

ISTD Elements

C:\ICPCHEM\1\DATA\05C0313b.B\006CALI.D\006CALI.D#

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1037984.90	5.45	1070638.10	97.0	30 - 200	
45 Sc	1124155.50	3.95	1173927.40	95.8	30 - 200	
72 Ge	199607.33	4.49	205450.44	97.2	30 - 200	
115 In	1341326.00	2.75	1370264.60	97.9	30 - 200	
209 Bi	763766.25	1.74	788188.50	96.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\05C0313b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\007CALI.D\007CALI.D#
Date Acquired: Mar 3 2005 02:14 pm
Operator:
Sample Name: CS4,05WS0214
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 03 2005 02:10 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1032281.00	A	16180.00	1.57
9	Be	21216.67	P	841.10	3.96
23	Na	9745430.00	A	805700.00	8.27
26	Mg	1059262.00	A	84830.00	8.01
27	Al	86067.78	P	6972.00	8.10
39	K	9477657.00	A	473400.00	4.99
44	Ca	260534.50	P	15540.00	5.96
45	Sc	1152997.00	A	62280.00	5.40
51	V	104518.00	P	5197.00	4.97
52	Cr	95547.78	P	3853.00	4.03
55	Mn	118021.10	P	6312.00	5.35
57	Fe	241324.41	P	11970.00	4.96
59	Co	99630.00	P	3628.00	3.64
60	Ni	22132.22	P	1123.00	5.07
65	Cu	24528.84	P	1218.00	4.97
66	Zn	15316.41	P	665.60	4.35
72	Ge	205291.80	P	7679.00	3.74
75	As	10884.72	P	356.40	3.27
82	Se	5222.29	P	257.90	4.94
95	Mo	23670.00	P	779.90	3.29
109	Ag	53265.55	P	1746.00	3.28
111	Cd	10976.16	P	184.00	1.68
115	In	1338162.00	A	16690.00	1.25
121	Sb	38700.00	P	1440.00	3.72
137	Ba	14641.11	P	476.70	3.26
205	Tl	72377.78	P	1985.00	2.74
208	Pb	94726.66	P	2208.00	2.33
209	Bi	749873.13	M	50840.00	6.78
232	Th	68541.11	P	1132.00	1.65
238	U	88068.88	P	2308.00	2.62

ISTD Elements

C:\ICPCHEM\1\DATA\05C0313b.B\007CALI.D\007CALI.D#

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1032280.70	1.57	1070638.10	96.4	30 - 200	
45 Sc	1152997.10	5.40	1173927.40	98.2	30 - 200	
72 Ge	205291.77	3.74	205450.44	99.9	30 - 200	
115 In	1338161.50	1.25	1370264.60	97.7	30 - 200	
209 Bi	749873.13	6.78	788188.50	95.1	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\05C0313b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\008CALI.D\008CALI.D#
Date Acquired: Mar 3 2005 02:19 pm
Operator:
Sample Name: CS5,05WS0209
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 03 2005 02:15 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1026898.00	A	30220.00	2.94
9	Be	217170.00	P	6525.00	3.00
23	Na	96826408.00	A	6703000.00	6.92
26	Mg	10001960.00	A	610400.00	6.10
27	Al	842533.50	A	50760.00	6.02
39	K	87187000.00	A	5199000.00	5.96
44	Ca	2821003.00	A	136700.00	4.85
45	Sc	1188194.00	A	46100.00	3.88
51	V	1205141.00	A	46360.00	3.85
52	Cr	1004083.00	A	32500.00	3.24
55	Mn	1279362.00	A	42970.00	3.36
57	Fe	2571407.00	A	86830.00	3.38
59	Co	1089387.00	A	36410.00	3.34
60	Ni	215373.30	P	8800.00	4.09
65	Cu	239416.20	P	10510.00	4.39
66	Zn	121034.50	P	4829.00	3.99
72	Ge	208490.70	P	10840.00	5.20
75	As	115866.60	P	4966.00	4.29
82	Se	12255.92	P	577.00	4.71
95	Mo	241503.30	P	10540.00	4.36
109	Ag	525096.63	P	18900.00	3.60
111	Cd	104033.70	P	4365.00	4.20
115	In	1320879.00	A	32160.00	2.43
121	Sb	388596.69	P	13920.00	3.58
137	Ba	143184.41	P	5655.00	3.95
205	Tl	733286.50	M	58170.00	7.93
208	Pb	923842.13	P	29190.00	3.16
209	Bi	703660.81	M	15460.00	2.20
232	Th	843786.19	A	16080.00	1.91
238	U	987176.69	A	15380.00	1.56

ISTD Elements

C:\ICPCHEM\1\DATA\05C0313b.B\008CALI.D\008CALI.D#

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1026897.90	2.94	1070638.10	95.9	30 - 200	
45 Sc	1188194.10	3.88	1173927.40	101.2	30 - 200	
72 Ge	208490.67	5.20	205450.44	101.5	30 - 200	
115 In	1320879.10	2.43	1370264.60	96.4	30 - 200	
209 Bi	703660.81	2.20	788188.50	89.3	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\05C0313b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\05C0313b.B\009CALI.D\009CALI.D#
Date Acquired: Mar 3 2005 02:24 pm
Operator:
Sample Name: CS6,05WS0210
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\60200111.M
Calibration File: C:\ICPCHEM\1\CALIB\60200111.C
Last Cal Update: Mar 03 2005 02:21 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1030509.00	A	33140.00	3.22
9	Be	434628.91	P	17370.00	4.00
23	Na	192278300.00	A	13440000.00	6.99
26	Mg	19716680.00	A	963800.00	4.89
27	Al	1679227.00	A	102400.00	6.10
39	K	176270100.00	A	8166000.00	4.63
44	Ca	5537779.00	A	210900.00	3.81
45	Sc	1208098.00	A	48660.00	4.03
51	V	2363936.00	A	85890.00	3.63
52	Cr	1966795.00	A	63450.00	3.23
55	Mn	2491176.00	A	120900.00	4.85
57	Fe	5019636.00	A	208800.00	4.16
59	Co	2136611.00	A	66480.00	3.11
60	Ni	427966.59	P	17940.00	4.19
65	Cu	473454.09	P	26430.00	5.58
66	Zn	232484.09	P	10570.00	4.55
72	Ge	211696.41	P	8932.00	4.22
75	As	231176.30	P	10570.00	4.57
82	Se	19662.82	P	735.30	3.74
95	Mo	485138.91	P	19190.00	3.96
109	Ag	1082212.00	A	19380.00	1.79
111	Cd	208464.50	P	6381.00	3.06
115	In	1318615.00	A	40550.00	3.08
121	Sb	791030.38	M	42600.00	5.39
137	Ba	286505.50	P	10270.00	3.58
205	Tl	1532478.00	A	30780.00	2.01
208	Pb	1887044.00	A	41620.00	2.21
209	Bi	677250.00	P	17100.00	2.52
232	Th	1807811.00	A	35780.00	1.98
238	U	1912139.00	A	28590.00	1.50

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1030508.70	3.22	1070638.10	96.3	30 - 200	
45 Sc	1208098.40	4.03	1173927.40	102.9	30 - 200	
72 Ge	211696.44	4.22	205450.44	103.0	30 - 200	
115 In	1318615.50	3.08	1370264.60	96.2	30 - 200	
209 Bi	677250.00	2.52	788188.50	85.9	30 - 200	

ISTD Ref File : C:\ICPCHEM\1\DATA\05C0313b.B\003CALB.D\003CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Summary

Calibration : C:\ICPCHEM\1\CALIB\60200111.C
Last Calib: Mar 03, 2005 14:26
Cal Type : External Calibration Method
Cal Title :

Standard Data Files

Level	DataPath	DataFile	Date Acquired
1	...hem\1\data\05c0313b.b\003calb.d\	003calb.d#	Mar 3 2005 01:53 pm
2	...hem\1\data\05c0313b.b\004cali.d\	004cali.d#	Mar 3 2005 01:58 pm
3	...hem\1\data\05c0313b.b\005cali.d\	005cali.d#	Mar 3 2005 02:03 pm
4	...hem\1\data\05c0313b.b\006cali.d\	006cali.d#	Mar 3 2005 02:08 pm
5	...hem\1\data\05c0313b.b\007cali.d\	007cali.d#	Mar 3 2005 02:14 pm
6	...hem\1\data\05c0313b.b\008cali.d\	008cali.d#	Mar 3 2005 02:19 pm
7	...hem\1\data\05c0311a.b\009cali.d\	009cali.d#	Mar 3 2005 12:14 pm
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Level	BkgPath	BkgFile	Interference Correction
1	---	---	ON
2	---	---	ON
3	---	---	ON
4	---	---	ON
5	---	---	ON
6	---	---	ON
7	---	---	ON
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		
17	---		
18	---		
19	---		
20	---		

Name	m/z	IS	Equation	r	Units
Li	6	---	--------	???	ppb
Be	9	6	Y = 1.091E-1*X -3.870E-2	0.9999	ppb
Na	23	45	Y = 4.011E-1*X +1.500E+1	1.0000	ppb
Mg	25	45	Y = 3.506E-2*X +1.743E+0	0.9999	ppb
Mg	26	45	Y = 4.099E-2*X +2.255E+0	0.9999	ppb
Al	27	45	Y = 3.454E-1*X +4.668E-1	1.0000	ppb
K	39	45	Y = 3.637E-1*X +3.668E+1	1.0000	ppb
Ca	43	45	Y = 6.721E-4*X +2.255E-2	1.0000	ppb
Ca	44	45	Y = 1.153E-2*X +5.175E-1	0.9999	ppb
Sc	45	---	--------	???	ppb
	50	---	--------	???	
V	51	72	Y = 2.856E+0*X -3.427E-2	1.0000	ppb
Cr	52	72	Y = 2.356E+0*X +1.313E+0	0.9999	ppb
Cr	53	72	Y = 2.585E-1*X +1.056E+0	1.0000	ppb
Fe	54	72	Y = 1.489E-1*X +1.265E+1	1.0000	ppb
Mn	55	72	Y = 3.024E+0*X +4.101E-1	1.0000	ppb
Fe	57	72	Y = 6.018E-2*X +2.441E+0	0.9999	ppb
Co	59	72	Y = 2.594E+0*X -9.295E-2	1.0000	ppb
Ni	60	72	Y = 5.156E-1*X +1.812E-1	1.0000	ppb
Cu	63	72	Y = 1.294E+0*X -6.267E-1	0.9996	ppb
Cu	65	72	Y = 5.676E-1*X +2.188E-1	1.0000	ppb
Zn	66	72	Y = 2.736E-1*X +9.545E-1	0.9999	ppb
Ge	72	---	--------	???	ppb
As	75	72	Y = 2.767E-1*X -1.404E-1	1.0000	ppb
(As)	77	72	Y = 1.446E-2*X +3.057E-1	0.9999	ppb
Se	82	72	Y = 1.853E-2*X +1.027E+0	0.9994	ppb
(As)	83	72	Y = -4.169E-4*X +1.079E+1	-0.1028	ppb
(Ca)	88	72	Y = 9.771E-3*X +1.059E-1	1.0000	ppb
Y	89	72	--------	???	ppb
Mo	95	72	Y = 5.852E-1*X -4.132E-2	1.0000	ppb
Mo	98	72	Y = 9.365E-1*X -2.928E-1	0.9999	ppb
(Mo)	99	72	Y = 2.796E-5*X +3.452E-2	0.6577	ppb
(Cd)	106	72	Y = 2.232E-2*X +1.271E-1	0.9999	ppb
(Cd)	108	72	Y = 1.675E-2*X +3.739E-2	1.0000	ppb
Ag	109	72	Y = 1.287E+0*X -1.725E-1	0.9999	ppb
Cd	111	72	Y = 2.448E-1*X +1.561E-1	1.0000	ppb
Cd	114	72	Y = 5.584E-1*X +3.346E-1	0.9998	ppb
In	115	---	--------	???	ppb
(In)	118	---	--------	???	ppb
Sb	121	115	Y = 1.516E-1*X -4.938E-2	0.9999	ppb
Ba	135	115	Y = 3.197E-2*X +3.847E-3	1.0000	ppb
Ba	137	115	Y = 5.497E-2*X -1.613E-3	1.0000	ppb
Tb	159	---	--------	???	ppb
Er	166	115	--------	???	ppb
Tl	205	209	Y = 5.738E-1*X -7.909E-1	0.9988	ppb
(Pb)	206	209	Y = 1.724E-1*X -5.919E-2	0.9999	ppb
(Pb)	207	209	Y = 1.468E-1*X -4.622E-2	0.9999	ppb
Pb	208	209	Y = 6.993E-1*X -5.052E-1	0.9995	ppb
Bi	209	---	--------	???	ppb
Th	232	209	Y = 6.787E-1*X -1.431E+0	0.9981	ppb
U	238	209	Y = 7.109E-1*X -3.346E-1	1.0000	ppb

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

nstid : MET05 Run Name :
eqnum : 55090102010 Filename : c0313010 Injected : 03-MAR-2005 14:29
alnum : 55090102001 Caldate : 03-MAR-2005 Caltype :
tandards: 05WS0215, 05WS0207

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	100.0000	102.2000	ug/L	2	10	
Antimony	100.0000	100.2000	ug/L	0	10	
Arsenic	100.0000	100.3000	ug/L	0	10	
Barium	100.0000	101.8000	ug/L	2	10	
Beryllium	100.0000	95.68000	ug/L	-4	10	
Cadmium	100.0000	101.5000	ug/L	2	10	
Calcium	10000.00	10320.00	ug/L	3	10	
Chromium	100.0000	99.99000	ug/L	0	10	
Cobalt	100.0000	102.2000	ug/L	2	10	
Copper	100.0000	102.0000	ug/L	2	10	
Iron	10000.00	10250.00	ug/L	3	10	
Lead	100.0000	93.39000	ug/L	-7	10	
Magnesium	10000.00	10310.00	ug/L	3	10	
Manganese	100.0000	102.5000	ug/L	3	10	
Molybdenum	100.0000	100.6000	ug/L	1	10	
Nickel	100.0000	101.0000	ug/L	1	10	
Potassium	10000.00	10160.00	ug/L	2	10	
Selenium	100.0000	104.2000	ug/L	4	10	
Silver	100.0000	98.95000	ug/L	-1	10	
Sodium	10000.00	10080.00	ug/L	1	10	
Thallium	100.0000	95.21000	ug/L	-5	10	
Vanadium	100.0000	100.5000	ug/L	1	10	
Zinc	100.0000	103.5000	ug/L	4	10	

ISTD (ICALBLK=c0313003)	ICALBLK Abund	Abund	%Diff
Lithium	1070638	998000	-6.78
Scandium	1173927	1129191	-3.81
Germanium	205450	203794	-0.81
Indium	1370265	1288500	-5.97
Bismuth	788189	719229	-8.75
Terbium	1516120	1451226	-4.28

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102027
Calnum : 55090102001
Standards: 05WS0216, 05WS0207

Run Name :
Filename : c0313027
Caldate : 03-MAR-2005

IDF : 1.0
Injected : 03-MAR-2005 16:08
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.6440	0.3569	100.0000	101.9000	ug/L	2	10	
Antimony	0.1566	0.1467	100.0000	98.18000	ug/L	-2	10	
Arsenic	0.1543	0.2718	100.0000	99.46000	ug/L	-1	10	
Barium	0.0648	0.0545	100.0000	100.3000	ug/L	0	10	
Beryllium	0.1127	0.1030	100.0000	97.65000	ug/L	-2	10	
Cadmium	0.3626	0.2524	100.0000	102.1000	ug/L	2	10	
Calcium	0.0132	0.0119	10000.00	10330.00	ug/L	3	10	
Chromium	3.0313	2.3562	100.0000	100.5000	ug/L	1	10	
Cobalt	2.6042	2.6129	100.0000	102.8000	ug/L	3	10	
Copper	0.6467	0.5683	100.0000	101.0000	ug/L	1	10	
Iron	0.0690	0.0610	10000.00	10200.00	ug/L	2	10	
Lead	0.6818	0.6696	100.0000	97.23000	ug/L	-3	10	
Magnesium	0.0421	0.0418	10000.00	10190.00	ug/L	2	10	
Manganese	3.4051	3.0113	100.0000	101.4000	ug/L	1	10	
Molybdenum	0.6124	0.5779	100.0000	100.6000	ug/L	1	10	
Nickel	0.7343	0.5108	100.0000	100.5000	ug/L	1	10	
Potassium	0.5880	0.3648	10000.00	9954.000	ug/L	0	10	
Selenium	0.6332	0.0287	100.0000	101.0000	ug/L	1	10	
Silver	1.3683	1.2721	100.0000	99.74000	ug/L	0	10	
Sodium	0.4438	0.3968	10000.00	9928.000	ug/L	-1	10	
Thallium	0.5226	0.5208	100.0000	93.51000	ug/L	-6	10	
Vanadium	2.9639	2.8572	100.0000	101.5000	ug/L	2	10	
Zinc	0.7997	0.2812	100.0000	100.1000	ug/L	0	10	

ISTD (ICALBLK=c0313003)	ICALBLK Abund	Abund	%Diff
Lithium	1070638	970687	-9.34
Scandium	1173927	1136474	-3.19
Germanium	205450	203176	-1.11
Indium	1370265	1306002	-4.69
Bismuth	788189	671016	-14.87
Terbium	1516120	1447375	-4.53

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05 Run Name : IDF : 1.0
Seqnum : 55090102045 Filename : c0313045 Injected : 03-MAR-2005 17:54
Calnum : 55090102001 Caldate : 03-MAR-2005 Caltype :
Standards: 05WS0219, 05WS0207

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.6440	0.3438	150.0000	147.8000	ug/L	-1	10	
Antimony	0.1566	0.1485	150.0000	149.2000	ug/L	-1	10	
Arsenic	0.1543	0.2728	150.0000	149.4000	ug/L	0	10	
Barium	0.0648	0.0556	150.0000	153.6000	ug/L	2	10	
Beryllium	0.1127	0.1007	150.0000	143.2000	ug/L	-5	10	
Cadmium	0.3626	0.2595	150.0000	157.6000	ug/L	5	10	
Calcium	0.0132	0.0115	15000.00	14950.00	ug/L	0	10	
Chromium	3.0313	2.2551	150.0000	144.5000	ug/L	-4	10	
Cobalt	2.6042	2.5034	150.0000	147.7000	ug/L	-2	10	
Copper	0.6467	0.5544	150.0000	147.9000	ug/L	-1	10	
Iron	0.0690	0.0594	15000.00	14910.00	ug/L	-1	10	
Lead	0.6818	0.7078	150.0000	154.2000	ug/L	3	10	
Magnesium	0.0421	0.0407	15000.00	14860.00	ug/L	-1	10	
Manganese	3.4051	2.9578	150.0000	149.5000	ug/L	0	10	
Molybdenum	0.6124	0.5893	150.0000	153.9000	ug/L	3	10	
Nickel	0.7343	0.4907	150.0000	144.9000	ug/L	-3	10	
Potassium	0.5880	0.3616	15000.00	14840.00	ug/L	-1	10	
Selenium	0.6332	0.0254	150.0000	152.3000	ug/L	2	10	
Silver	1.3683	1.3701	150.0000	161.2000	ug/L	7	10	
Sodium	0.4438	0.3917	15000.00	14700.00	ug/L	-2	10	
Thallium	0.5226	0.5830	150.0000	157.1000	ug/L	5	10	
Vanadium	2.9639	2.6958	150.0000	143.8000	ug/L	-4	10	
Zinc	0.7997	0.2732	150.0000	147.2000	ug/L	-2	10	

ISTD (ICALBLK=c0313003)	ICALBLK Abund	Abund	%Diff
Lithium	1070638	925940	-13.52
Scandium	1173927	1076519	-8.30
Germanium	205450	197960	-3.65
Indium	1370265	1318978	-3.74
Bismuth	788189	682004	-13.47
Terbium	1516120	1503193	-0.85

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102064
Calnum : 55090102001
Standards: 05WS0216, 05WS0207

Run Name :
Filename : c0313064
Caldate : 03-MAR-2005

IDF : 1.0
Injected : 03-MAR-2005 19:46
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.6440	0.3507	100.0000	100.1000	ug/L	0	10	
Antimony	0.1566	0.1474	100.0000	98.68000	ug/L	-1	10	
Arsenic	0.1543	0.2732	100.0000	99.95000	ug/L	0	10	
Barium	0.0648	0.0549	100.0000	101.1000	ug/L	1	10	
Beryllium	0.1127	0.1038	100.0000	98.41000	ug/L	-2	10	
Cadmium	0.3626	0.2527	100.0000	102.2000	ug/L	2	10	
Calcium	0.0132	0.0117	10000.00	10140.00	ug/L	1	10	
Chromium	3.0313	2.3550	100.0000	100.4000	ug/L	0	10	
Cobalt	2.6042	2.5966	100.0000	102.1000	ug/L	2	10	
Copper	0.6467	0.5628	100.0000	100.1000	ug/L	0	10	
Iron	0.0690	0.0615	10000.00	10280.00	ug/L	3	10	
Lead	0.6818	0.6736	100.0000	97.80000	ug/L	-2	10	
Magnesium	0.0421	0.0415	10000.00	10110.00	ug/L	1	10	
Manganese	3.4051	3.0073	100.0000	101.3000	ug/L	1	10	
Molybdenum	0.6124	0.5791	100.0000	100.8000	ug/L	1	10	
Nickel	0.7343	0.5020	100.0000	98.76000	ug/L	-1	10	
Potassium	0.5880	0.3677	10000.00	10030.00	ug/L	0	10	
Selenium	0.6332	0.0293	100.0000	104.3000	ug/L	4	10	
Silver	1.3683	1.2548	100.0000	98.38000	ug/L	-2	10	
Sodium	0.4438	0.4008	10000.00	10030.00	ug/L	0	10	
Thallium	0.5226	0.5188	100.0000	93.15000	ug/L	-7	10	
Vanadium	2.9639	2.8408	100.0000	101.0000	ug/L	1	10	
Zinc	0.7997	0.2819	100.0000	100.4000	ug/L	0	10	

ISTD (ICALBLK=c0313003)	ICALBLK Abund	Abund	%Diff
Lithium	1070638	919366	-14.13
Scandium	1173927	1089552	-7.19
Germanium	205450	194758	-5.20
Indium	1370265	1259483	-8.08
Bismuth	788189	674609	-14.41
Terbium	1516120	1425198	-6.00

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102073
Calnum : 55090102001
Standards: 05WS0219, 05WS0207

Run Name :
Filename : c0313073
Caldate : 03-MAR-2005

IDF : 1.0
Injected : 03-MAR-2005 20:39
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	0.6440	0.3443	150.0000	148.0000	ug/L	-1	10	
Antimony	0.1566	0.1470	150.0000	147.7000	ug/L	-2	10	
Arsenic	0.1543	0.2724	150.0000	149.2000	ug/L	-1	10	
Barium	0.0648	0.0547	150.0000	151.2000	ug/L	1	10	
Beryllium	0.1127	0.1034	150.0000	147.0000	ug/L	-2	10	
Cadmium	0.3626	0.2523	150.0000	153.2000	ug/L	2	10	
Calcium	0.0132	0.0115	15000.00	14930.00	ug/L	0	10	
Chromium	3.0313	2.3213	150.0000	148.7000	ug/L	-1	10	
Cobalt	2.6042	2.5380	150.0000	149.8000	ug/L	0	10	
Copper	0.6467	0.5598	150.0000	149.4000	ug/L	0	10	
Iron	0.0690	0.0604	15000.00	15170.00	ug/L	1	10	
Lead	0.6818	0.6802	150.0000	148.2000	ug/L	-1	10	
Magnesium	0.0421	0.0406	15000.00	14830.00	ug/L	-1	10	
Manganese	3.4051	2.9987	150.0000	151.6000	ug/L	1	10	
Molybdenum	0.6124	0.5786	150.0000	151.1000	ug/L	1	10	
Nickel	0.7343	0.4947	150.0000	146.1000	ug/L	-3	10	
Potassium	0.5880	0.3619	15000.00	14850.00	ug/L	-1	10	
Selenium	0.6332	0.0251	150.0000	149.6000	ug/L	0	10	
Silver	1.3683	1.3080	150.0000	153.9000	ug/L	3	10	
Sodium	0.4438	0.3903	15000.00	14650.00	ug/L	-2	10	
Thallium	0.5226	0.5733	150.0000	154.4000	ug/L	3	10	
Vanadium	2.9639	2.7891	150.0000	148.8000	ug/L	-1	10	
Zinc	0.7997	0.2749	150.0000	148.2000	ug/L	-1	10	

ISTD (ICALBLK=c0313003)	ICALBLK Abund	Abund	%Diff
Lithium	1070638	922556	-13.83
Scandium	1173927	1096530	-6.59
Germanium	205450	192630	-6.24
Indium	1370265	1253607	-8.51
Bismuth	788189	667349	-15.33
Terbium	1516120	1431737	-5.57

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102013
Standards: 05WS0207

Run Name :
Filename : c0313013

Injected : 03-MAR-2005 14:47

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Flags
Aluminum	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Antimony	55090102001	03-MAR-2005	[0.0870]	0.250000	ug/L	
Arsenic	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Barium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Beryllium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Cadmium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Calcium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Chromium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Cobalt	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Copper	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Iron	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Lead	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Magnesium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Manganese	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Molybdenum	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Nickel	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Potassium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Selenium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Silver	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Sodium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Thallium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Vanadium	55090102001	03-MAR-2005	ND	1.000000	ug/L	
Zinc	55090102001	03-MAR-2005	ND	1.000000	ug/L	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102028
Standards: 05WS0207

Run Name :
Filename : c0313028

Injected : 03-MAR-2005 16:14

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Flags
Aluminum	55090102001	03-MAR-2005	[4.1820]	50.00000	ug/L	
Antimony	55090102001	03-MAR-2005	0.325200	0.250000	ug/L	ib ***
Arsenic	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Barium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Beryllium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Cadmium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Calcium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Chromium	55090102001	03-MAR-2005	[0.0594]	0.500000	ug/L	
Cobalt	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Copper	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Iron	55090102001	03-MAR-2005	[20.840]	50.00000	ug/L	
Lead	55090102001	03-MAR-2005	[0.0606]	0.250000	ug/L	
Magnesium	55090102001	03-MAR-2005	[14.150]	50.00000	ug/L	
Manganese	55090102001	03-MAR-2005	[0.0641]	0.250000	ug/L	
Molybdenum	55090102001	03-MAR-2005	[0.3999]	0.500000	ug/L	
Nickel	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Potassium	55090102001	03-MAR-2005	[13.650]	50.00000	ug/L	
Selenium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Silver	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Sodium	55090102001	03-MAR-2005	[18.890]	50.00000	ug/L	
Thallium	55090102001	03-MAR-2005	[0.2607]	0.500000	ug/L	
Vanadium	55090102001	03-MAR-2005	ND	1.000000	ug/L	
Zinc	55090102001	03-MAR-2005	ND	1.000000	ug/L	

ib=instrument blank
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102050
Standards: 05WS0207

Run Name :
Filename : c0313050

Injected : 03-MAR-2005 18:23

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Flags
Aluminum	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Antimony	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Arsenic	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Barium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Beryllium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Cadmium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Calcium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Chromium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Cobalt	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Copper	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Iron	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Lead	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Magnesium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Manganese	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Molybdenum	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Nickel	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Potassium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Selenium	55090102001	03-MAR-2005	0.719400	0.500000	ug/L	ib ***
Silver	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Sodium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Thallium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Vanadium	55090102001	03-MAR-2005	ND	1.000000	ug/L	
Zinc	55090102001	03-MAR-2005	ND	1.000000	ug/L	

ib=instrument blank

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102069
Standards: 05WS0207

Run Name :
Filename : c0313069

Injected : 03-MAR-2005 20:15

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Flags
Aluminum	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Antimony	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Arsenic	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Barium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Beryllium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Cadmium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Calcium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Chromium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Cobalt	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Copper	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Iron	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Lead	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Magnesium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Manganese	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Molybdenum	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Nickel	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Potassium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Selenium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Silver	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Sodium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Thallium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Vanadium	55090102001	03-MAR-2005	ND	1.000000	ug/L	
Zinc	55090102001	03-MAR-2005	ND	1.000000	ug/L	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instid : MET05
Seqnum : 55090102075
Standards: 05WS0207

Run Name :
Filename : c0313075

Injected : 03-MAR-2005 20:51

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Flags
Aluminum	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Antimony	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Arsenic	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Barium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Beryllium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Cadmium	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Calcium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Chromium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Cobalt	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Copper	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Iron	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Lead	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Magnesium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Manganese	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Molybdenum	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Nickel	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Potassium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Selenium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Silver	55090102001	03-MAR-2005	ND	0.250000	ug/L	
Sodium	55090102001	03-MAR-2005	ND	50.00000	ug/L	
Thallium	55090102001	03-MAR-2005	ND	0.500000	ug/L	
Vanadium	55090102001	03-MAR-2005	ND	1.000000	ug/L	
Zinc	55090102001	03-MAR-2005	ND	1.000000	ug/L	

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 55090102015 Filename : c0313015 Injected : 03-MAR-2005 14:58
Standards: 05WS0217, 05WS0207

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Flags
Antimony	55090102001	03-MAR-2005	2.401000	0.250000	ug/L	
Arsenic	55090102001	03-MAR-2005	0.797600	0.500000	ug/L	
Barium	55090102001	03-MAR-2005	1.060000	0.250000	ug/L	
Beryllium	55090102001	03-MAR-2005	[0.0226]	0.250000	ug/L	
Cadmium	55090102001	03-MAR-2005	[0.0724]	0.250000	ug/L	
Chromium	55090102001	03-MAR-2005	1.341000	0.500000	ug/L	
Cobalt	55090102001	03-MAR-2005	2.619000	0.250000	ug/L	
Copper	55090102001	03-MAR-2005	1.749000	0.500000	ug/L	
Lead	55090102001	03-MAR-2005	1.271000	0.250000	ug/L	
Manganese	55090102001	03-MAR-2005	0.882900	0.250000	ug/L	
Nickel	55090102001	03-MAR-2005	1.411000	0.250000	ug/L	
Selenium	55090102001	03-MAR-2005	14.36000	0.500000	ug/L	
Silver	55090102001	03-MAR-2005	[0.2105]	0.250000	ug/L	
Thallium	55090102001	03-MAR-2005	[0.0355]	0.500000	ug/L	
Vanadium	55090102001	03-MAR-2005	[0.1875]	1.000000	ug/L	
Zinc	55090102001	03-MAR-2005	2.932000	1.000000	ug/L	

SPIKED INTERFERENTS

Analyte	Calnum	Caldate	SpikeAmt	QuantAmt	Units	%REC
Aluminum	55090102001	03-MAR-2005	100000	85230	ug/L	85
Calcium	55090102001	03-MAR-2005	300000	301300	ug/L	100
Iron	55090102001	03-MAR-2005	250000	238700	ug/L	95
Magnesium	55090102001	03-MAR-2005	100000	91780	ug/L	92
Molybdenum	55090102001	03-MAR-2005	2000	2114	ug/L	106
Potassium	55090102001	03-MAR-2005	100000	93720	ug/L	94
Sodium	55090102001	03-MAR-2005	250000	217000	ug/L	87

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 55090102016 Filename : c0313016 Injected : 03-MAR-2005 15:04
Calnum : 55090102001 Caldate : 03-MAR-2005 Caltype :
Standards: 05WS0218, 05WS0207

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	84860.00	ug/L	-15		
Arsenic	100.0000	104.1000	ug/L	4	20	
Cadmium	100.0000	97.86000	ug/L	-2	20	
Calcium	300000.0	299500.0	ug/L	0		
Chromium	200.0000	192.7000	ug/L	-4	20	
Cobalt	200.0000	191.0000	ug/L	-5	20	
Copper	200.0000	185.8000	ug/L	-7	20	
Iron	250000.0	233700.0	ug/L	-7		
Magnesium	100000.0	92070.00	ug/L	-8		
Manganese	200.0000	191.6000	ug/L	-4	20	
Molybdenum	2000.000	2100.000	ug/L	5		
Nickel	200.0000	187.1000	ug/L	-6	20	
Potassium	100000.0	92720.00	ug/L	-7		
Selenium	100.0000	102.4000	ug/L	2	20	
Silver	50.00000	48.08000	ug/L	-4	20	
Sodium	250000.0	217000.0	ug/L	-13		
Vanadium	200.0000	197.3000	ug/L	-1	20	
Zinc	100.0000	95.60000	ug/L	-4	20	

ISTD (ICALBLK=c0313003)	ICALBLK Abund	Abund	%Diff
Lithium	1070638	858616	-19.80
Scandium	1173927	1076783	-8.28
Germanium	205450	196444	-4.38
Indium	1370265	1231383	-10.14
Bismuth	788189	652836	-17.17
Terbium	1516120	1483574	-2.15

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 55090102076 Filename : c0313076 Injected : 03-MAR-2005 20:57
Standards: 05WS0217, 05WS0207

Analyte	Calnum	Caldate	QuantAmt	RL	Units	Flags
Antimony	55090102001	03-MAR-2005	2.189000	0.250000	ug/L	
Arsenic	55090102001	03-MAR-2005	0.817600	0.500000	ug/L	
Barium	55090102001	03-MAR-2005	0.886100	0.250000	ug/L	
Beryllium	55090102001	03-MAR-2005	[0.0000]	0.250000	ug/L	
Cadmium	55090102001	03-MAR-2005	[0.0851]	0.250000	ug/L	
Chromium	55090102001	03-MAR-2005	1.325000	0.500000	ug/L	
Cobalt	55090102001	03-MAR-2005	2.555000	0.250000	ug/L	
Copper	55090102001	03-MAR-2005	1.658000	0.500000	ug/L	
Lead	55090102001	03-MAR-2005	1.235000	0.250000	ug/L	
Manganese	55090102001	03-MAR-2005	0.877700	0.250000	ug/L	
Nickel	55090102001	03-MAR-2005	1.408000	0.250000	ug/L	
Selenium	55090102001	03-MAR-2005	1.041000	0.500000	ug/L	
Silver	55090102001	03-MAR-2005	[0.1618]	0.250000	ug/L	
Thallium	55090102001	03-MAR-2005	[0.0604]	0.500000	ug/L	
Vanadium	55090102001	03-MAR-2005	[0.2488]	1.000000	ug/L	
Zinc	55090102001	03-MAR-2005	3.280000	1.000000	ug/L	

SPIKED INTERFERENTS

Analyte	Calnum	Caldate	SpikeAmt	QuantAmt	Units	%REC
Aluminum	55090102001	03-MAR-2005	100000	85620	ug/L	86
Calcium	55090102001	03-MAR-2005	300000	286600	ug/L	96
Iron	55090102001	03-MAR-2005	250000	231200	ug/L	92
Magnesium	55090102001	03-MAR-2005	100000	90990	ug/L	91
Molybdenum	55090102001	03-MAR-2005	2000	2026	ug/L	101
Potassium	55090102001	03-MAR-2005	100000	93200	ug/L	93
Sodium	55090102001	03-MAR-2005	250000	213600	ug/L	85

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET05 Run Name :
Seqnum : 55090102077 Filename : c0313077 Injected : 03-MAR-2005 21:03
Calnum : 55090102001 Caldate : 03-MAR-2005 Caltype :
Standards: 05WS0218, 05WS0207

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	100000.0	87460.00	ug/L	-13		
Arsenic	100.0000	103.3000	ug/L	3	20	
Cadmium	100.0000	97.79000	ug/L	-2	20	
Calcium	300000.0	296300.0	ug/L	-1		
Chromium	200.0000	190.3000	ug/L	-5	20	
Cobalt	200.0000	189.2000	ug/L	-5	20	
Copper	200.0000	182.0000	ug/L	-9	20	
Iron	250000.0	234100.0	ug/L	-6		
Magnesium	100000.0	93790.00	ug/L	-6		
Manganese	200.0000	193.0000	ug/L	-4	20	
Molybdenum	2000.000	2099.000	ug/L	5		
Nickel	200.0000	183.6000	ug/L	-8	20	
Potassium	100000.0	94150.00	ug/L	-6		
Selenium	100.0000	103.9000	ug/L	4	20	
Silver	50.00000	47.59000	ug/L	-5	20	
Sodium	250000.0	220000.0	ug/L	-12		
Vanadium	200.0000	195.7000	ug/L	-2	20	
Zinc	100.0000	93.42000	ug/L	-7	20	

ISTD (ICALBLK=c0313003)	ICALBLK Abund	Abund	%Diff
Lithium	1070638	737598	-31.11
Scandium	1173927	965629	-17.74
Germanium	205450	176014	-14.33
Indium	1370265	1115512	-18.59
Bismuth	788189	586467	-25.59
Terbium	1516120	1334911	-11.95

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 55090102 Instrument: MET05 Agilent ICP-MS Begun: 03-MAR-2005
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK uL	Stds Used	>LR
001	c0313001	TUN	tune			03-MAR-2005 13:42	1.0	1.0			1	
003	c0313003	ICALBLK	std-blk			03-MAR-2005 13:53	1.0	1.0			2	
004	c0313004	ICAL	CS1			03-MAR-2005 13:58	1.0	1.0			3	
005	c0313005	ICAL	CS2			03-MAR-2005 14:03	1.0	1.0			4	
006	c0313006	ICAL	CS3			03-MAR-2005 14:08	1.0	1.0			5	
007	c0313007	ICAL	CS4			03-MAR-2005 14:14	1.0	1.0			6	
008	c0313008	ICAL	CS5			03-MAR-2005 14:19	1.0	1.0			7	
009	c0313009	ICAL	CS6			03-MAR-2005 14:24	1.0	1.0			8	
010	c0313010	ICV				03-MAR-2005 14:29	1.0	1.0		1	9 2	
013	c0313013	ICB				03-MAR-2005 14:47	1.0	1.0		1	2	
015	c0313015	ICSA				03-MAR-2005 14:58	1.0	1.0		1	10 2	7:CA=301300
016	c0313016	ICSAB				03-MAR-2005 15:04	1.0	1.0		1	11 2	7:CA=299500
018	c0313018	BLANK	QC284513	99662	Filtra	03-MAR-2005 15:16	1.0	1.0		1	2	
019	c0313019	BS	QC284514	99662	Filtra	03-MAR-2005 15:22	1.0	1.0		1	2	
020	c0313020	BSD	QC284515	99662	Filtra	03-MAR-2005 15:27	1.0	1.0		1	2	
021	c0313021	MSS	176728-002	99662	Filtra	03-MAR-2005 15:33	1.0	1.0	3	1	2	3:MG=79560.0
022	c0313022	SER	QC284518	99662	Filtra	03-MAR-2005 15:39	5.0	1.0		1	2	
023	c0313023	MSS	176728-002	99662	Filtra	03-MAR-2005 15:45	1.0	1.0	3	1	2	3:MG=79320.0
024	c0313024	X				03-MAR-2005 15:51	1.0	1.0		1	2	3:NA=98800.0
025	c0313025	MS	QC284516	99662	Filtra	03-MAR-2005 15:57	1.0	1.0	1	1	2	3:MG=88550.0
027	c0313027	CCV				03-MAR-2005 16:08	1.0	1.0		1	12 2	
028	c0313028	CCB				03-MAR-2005 16:14	1.0	1.0	1	1	2	
031	c0313031	SAMPLE	176728-001	99662	Filtra	03-MAR-2005 16:32	1.0	1.0	3	1	2	3:NA=89680.0
032	c0313032	MSD	QC284517	99662	Filtra	03-MAR-2005 16:38	1.0	1.0	1	1	2	3:MG=87660.0
033	c0313033	MSS	176728-002	99662	Filtra	03-MAR-2005 16:44	10.0	1.0		1	2	
034	c0313034	SER	QC284518	99662	Filtra	03-MAR-2005 16:50	50.0	1.0		1	2	
035	c0313035	SAMPLE	176728-001	99662	Filtra	03-MAR-2005 16:56	10.0	1.0		1	2	
036	c0313036	SAMPLE	177950-001	99662	Water	03-MAR-2005 17:01	1.0	1.0	2	1	2	3:CU=354.800
037	c0313037	SAMPLE	177950-001	99662	Water	03-MAR-2005 17:07	10.0	1.0		1	2	1:NA=276300
038	c0313038	MS	QC284516	99662	Filtra	03-MAR-2005 17:13	2.0	1.0		1	2	2:MG=44335.0
039	c0313039	MSD	QC284517	99662	Filtra	03-MAR-2005 17:19	2.0	1.0		1	2	2:MG=45055.0

Stds used: 1=05WS0208 2=05WS0207 3=05WS0211 4=05WS0212 5=05WS0213 6=05WS0214 7=05WS0209 8=05WS0210 9=05WS0215 10=05WS0217 11=05WS0218 12=05WS0216 13=05WS0219

Analyst: K Carlyon Date: 3/3/05

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 55090102 Instrument: MET05 Agilent ICP-MS Begun: 03-MAR-2005
Analytical Method: EPA 6020 SOP Version: 6020_rv1

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
045	c0313045	CCV				03-MAR-2005 17:54	1.0	1.0			1	13 2	
050	c0313050	CCB				03-MAR-2005 18:23	1.0	1.0	1		1	2	
052	c0313052	BS	QC284553	99673	Water	03-MAR-2005 18:35	1.0	1.0			1	2	
053	c0313053	BSD	QC284554	99673	Water	03-MAR-2005 18:41	1.0	1.0			1	2	
056	c0313056	MSS	177960-001	99673	Water	03-MAR-2005 18:59	1.0	1.0			1	2	
058	c0313058	SER	QC284557	99673	Water	03-MAR-2005 19:11	5.0	1.0			1	2	
059	c0313059	MS	QC284555	99673	Water	03-MAR-2005 19:17	1.0	1.0			1	2	
062	c0313062	MSD	QC284556	99673	Water	03-MAR-2005 19:34	1.0	1.0			1	2	
064	c0313064	CCV				03-MAR-2005 19:46	1.0	1.0			1	12 2	
069	c0313069	CCB				03-MAR-2005 20:15	1.0	1.0			1	2	
071	c0313071	BLANK	QC284552	99673	Water	03-MAR-2005 20:27	1.0	1.0			1	2	
073	c0313073	CCV				03-MAR-2005 20:39	1.0	1.0			1	13 2	
075	c0313075	CCB				03-MAR-2005 20:51	1.0	1.0			1	2	
076	c0313076	ICSA				03-MAR-2005 20:57	1.0	1.0			1	10 2	7:CA=286600
077	c0313077	ICSAB				03-MAR-2005 21:03	1.0	1.0			1	11 2	7:CA=296300
079	c0313079	TUN	TUNE			03-MAR-2005 21:14	1.0	1.0				1	

Stds used: 1=05WS0208 2=05WS0207 3=05WS0211 4=05WS0212 5=05WS0213 6=05WS0214 7=05WS0209 8=05WS0210 9=05WS0215 10=05WS0217 11=05WS0218 12=05WS0216 13=05WS0219

Analyst: K Carlyon Date: 3/3/05

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	NI	K	SE	AG	NA	TL	V	ZN
176728-001	MET05	12/27/04 21:01	1.0																						
176728-001	MET05	12/27/04 21:25	1.0																						
176728-001	MET05	12/28/04 01:00	10.0																						
176728-001	MET05	12/28/04 15:09	10.0																						
176728-001	MET05	12/28/04 15:39	1.0																						
176728-001	MET05	03/03/05 16:32	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
176728-001	MET05	03/03/05 16:56	10.0							+						+						+			
176728-002	MET05	12/27/04 21:19	1.0																						
176728-002	MET05	12/28/04 01:06	20.0																						
176728-002	MET05	12/28/04 15:33	20.0																						
176728-002	MET05	12/28/04 15:44	1.0																						
176728-002	MET05	03/03/05 15:33	1.0	+	+	+	+	+	+		+	+	+	+	+		+	+	+	+	+		+	+	+
176728-002	MET05	03/03/05 15:45	1.0																						
176728-002	MET05	03/03/05 16:44	10.0							+						+						+			
QC276941	MET05	12/27/04 18:17	1.0	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
QC276941	MET05	12/27/04 18:41	1.0			+																			
QC276941	MET05	12/28/04 17:07	1.0																			+			
QC276942	MET05	12/27/04 18:23	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
QC276942	MET05	12/28/04 16:55	1.0																			+			
QC276943	MET05	12/27/04 18:29	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
QC276943	MET05	12/28/04 17:01	1.0																			+			
QC276944	MET05	12/27/04 19:40	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	
QC276944	MET05	12/28/04 17:13	10.0																			+			+
QC276945	MET05	12/27/04 19:45	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	
QC276945	MET05	12/28/04 17:19	10.0																			+			+
QC276946	MET05	12/27/04 18:53	5.0	+	+	+	+	+	+		+	+	+	+	+			+	+	+	+		+	+	+
QC276946	MET05	12/27/04 19:34	50.0							+						+	+					+			
QC277689	MET05	12/27/04 21:07	1.0	+	+	+	+		+		+	+	+	+	+			+	+	+	+		+	+	+
QC284513	MET05	03/03/05 15:16	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC284514	MET05	03/03/05 15:22	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC284515	MET05	03/03/05 15:27	1.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC284516	MET05	03/03/05 15:57	1.0	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC284516	MET05	03/03/05 17:13	2.0							+															
QC284517	MET05	03/03/05 16:38	1.0	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC284517	MET05	03/03/05 17:19	2.0							+															

Curtis & Tompkins, Ltd.

REPORTING SUMMARY FOR 176728 METALS Filtrate
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	ALL	ASB	ABAS	BBAE	CCDA	CCAR	CCOU	CFEB	PBMG	MNNI	KSEG	ANAL	TL	VN	ZN
QC284518	MET05	03/03/05 15:39	5.0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
QC284518	MET05	03/03/05 16:50	50.0						+					+							+			

Curtis & Tompkins Laboratories **Sample Preparation Summary** **03-MAR-2005 10:26**

Batch Number : 99662
Date Extracted: 03-MAR-2005
Extracted by : Kevin Gaines
Prep Method : 200.8

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 04SS226
Spike #2 ID :
Spike #3 ID :

Sample	Type		Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176728-001			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
176728-002			Treadwell & Rollo	Filtrate	50	ml	50	1.000000	1					TAL/ICP		
177950-001			Lithonia Lighting	Water	50	ml	50	1.000000	1					AG, CD, CR, (more)		
QC284513	BLANK			Filtrate	50	ml	50	1.000000	1					ICAP		
QC284514	BS			Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC284515	BSD			Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC284516	MS	of 176728-002		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC284517	MSD	of 176728-002		Filtrate	50	ml	50	1.000000	1		.5			ICAP		
QC284518	SER	of 176728-002		Filtrate	50	ml	50	1.000000	1					ICAP		

Prep Chemist: [illegible] 3/3/05 Reviewed By: [illegible] Date: 3/7/5

Relinquished By: [illegible] 3/3/05 Received By: [illegible] Date: 3/3/5

Water Digestion for ICP-MS

Curtis & Tompkins, Ltd.

LIMS Batch #: _____
Date Digested: 3/3/05
Digested by: [illegible]

Digestion Method
☑ EPA 200.8 for ICP-MS
☐ _____

BK 2036
Page 91

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
BLK	50	50	N	
BS				
BSD				
MS-02D				FILTRATE
MSD-02				
176728-02				
01				
177950-01 A				

	Reagent ID or LIMS #	Initials / Date
digestion temperature (90-95 degrees C)	95	[illegible] 3/3
.5 mL of spike solution was added to all spikes	0455224	
	N/A	
concentrated HCl	A480446 BAKER	
concentrated HNO3	A464043 BAKER	
☐ filtered thru' Whatman # 541	N/A	

[illegible] 3/3/05
Extraction Chemist / Date

Continued from page _____
Continued on page _____

[illegible] 03/03/05
Reviewed by / Date

APPENDIX B
Data Validation Reports for Soil Confirmation Samples and Groundwater and Surface Water Samples

DataVal, Inc.

RECEIVED
JAN 3 1 2005
TREADWELL & ROLLO

TO: Sigrida Reinis, Treadwell & Rollo, Inc. January 28, 2005

FROM: Donna Breaux, DataVal, Inc. DB 1/29/05

QUALITY CONTROL SUMMARY REPORT FOR THE BAKER BEACH 3 AND 4 SITES, THE PRESIDIO OF SAN FRANCISCO, CA

LABORATORY: Curtis & Tompkins, Ltd., Berkeley, CA

SAMPLING DATES: June 30, July 21 and 30; August 2, 4 through 6, 8 and 30; September 14; October 1 and 7; November 5, 17, 22, and 23; and December 15 and 16, 2004

Data validation of Levels III and IV laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan (QAPP), Sampling and Analysis Plan, April, 2001; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, July 2002.

The data were reviewed for holding times, blanks, GC/MS tunes, initial calibrations, continuing calibration verification (CCV) standards, performance evaluation mix (PEM) standards, internal standards, laboratory control samples (LCS), surrogate recoveries, matrix spikes (MS), matrix spike duplicates (MSD), ICP interference check standards, ICP serial dilutions, compound identification and quantitation, and field duplicate samples.

The following paragraphs highlight the essential findings of the data validation effort:

I. <u>Volatile Organic Compounds by GC/MS (8260B)</u>

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reasons noted in Section F.

A. <u>Reporting Limits</u>

The laboratory reporting limits for VOCs in soil and water matrix samples met the project required reporting limits, with the following exceptions:

1. The laboratory reporting limits for acetone, methylene chloride and vinyl acetate in soil matrix samples did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP. The laboratory reported 20 ug/kg for acetone and methylene chloride. The project required reporting limits were 10 ug/kg for acetone, and 5 ug/kg for methylene chloride. The laboratory reported 50 ug/kg for vinyl acetate, the project required reporting limit was 10 ug/kg.

2. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane and chloromethane in water matrix samples. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L. The laboratory reporting limit of 10 ug/L for methylene chloride did not meet the project required reporting limit of 4.5 ug/L.
3. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any trip blanks associated with the project samples.

D. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

E. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

F. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. The 8/19/04 at 10:11 water matrix continuing calibration verification (CCV) standard analyzed on instrument MSVOA10, had two compounds with percent differences (%D) less than -25%: Freon 12 (-31%) and bromomethane (-60%). The associated samples were non-detect for Freon 12 and bromomethane, and were qualified as estimated (UJ).
2. The 8/18/04 at 11:16 soil matrix CCV standard analyzed on instrument MSVOA06, had one compound with a %D less than -25%: Freon 12 (-27%). The associated samples were non-detect for Freon 12, and were qualified as estimated (UJ).
3. The 11/09/04 at 16:14 water matrix CCV standard analyzed on instrument MSVOA08 had one compound with a %D less than -25%: bromoform (-28%). The associated sample was non-detect for bromoform, and was qualified as estimated (UJ).
4. Sample qualification was not required when continuing calibration standards failed high and were associated with samples with non-detect results. These failures were not noted in this report.

See Table 2 of this report for a summary of qualifications due to continuing calibration percent difference failure.

G. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:
1. The percent recoveries for 1,1-dichloroethene were outside the 65%-135% project acceptance criteria in QC samples BB3EX149[0.5] (176210-007) MS/MSD at 141% and 140%. The parent sample was non-detect for 1,1-dichloroethene and qualification was not required. (QC Batch 96818)

H. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

I. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with non-detected results and high failing surrogate recoveries did not require qualification, and are not noted in this report.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

K. Compound Identification and Quantitation
The samples highlighted in **bold** typeface in Table 1 received full, level IV data validation. This included re-calculation of GC/MS tunes, initial and continuing calibrations, surrogate values, and internal standard areas; in addition to re-calculation of all reported results for VOCs in these samples. If the project sample results were non-detected, the results for the QC samples were re-calculated and verified as correctly reported by the laboratory. For the samples that received full data validation, no problems were observed with compound identification and quantitation.

II. Semi- Volatile Organic Compounds by GC/MS (8270C)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections F and G.

A. Reporting Limits
The laboratory reporting limits for SVOCs in soil matrix samples met the project required reporting limits, with the following exceptions:
1. The laboratory reporting limits for 2-nitrophenol and acenaphthene in soil matrix samples did not meet the project required reporting limits listed in Table 2-6.9-1 of the QAPP. The laboratory reported 670 ug/kg for 2-nitrophenol and acenaphthene. The project required reporting limit was 330 ug/kg for these two compounds.

2. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

E. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

F. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. The 8/10/04 at 22:32 soil matrix continuing calibration verification (CCV) standard analyzed on instrument MSBNA03 had one compound with a percent difference (%D) less than -25%: benzoic acid (-28%). The non-detected results for benzoic acid in the associated samples were qualified as estimated (UJ).
2. The 11/09/04 at 10:11 soil matrix CCV analyzed on instrument MSBNA05 had one compound with a %D less than -25%: 2,4-dinitrophenol (-30%). The associated sample was non-detect for 2,4-dinitrophenol, and was qualified as estimated (UJ).
3. Qualification was not required for samples with non-detect results that were associated with continuing calibration standards that failed high. Those failures were not noted in this report.

See Table 2 of this report for a summary of qualifications due to continuing calibration percent difference failure.

G. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for pyrene were outside the 35%-142% project acceptance criteria in QC samples BB3EX116[0.5] MS/MSD at 28% and 9%, respectively. The detected result for pyrene in the parent sample was qualified as estimated with a low bias (J-) for percent recovery failure. (QC Batch 93906)

2. The percent recoveries for 2,4-dinitrotoluene, 2-chlorophenol and 4-chloro-3-methylphenol were outside the project acceptance criteria in QC sample 176211-001 MS. The parent sample was associated with a site unrelated to the project site, and qualification was not required. (QC Batch 96880)
3. The percent recovery for 2,4-dinitrotoluene was outside the project acceptance criteria in QC sample BB3EX153[0.5] MS at 92%. The result for 2,4-dinitrotoluene in the parent sample was non-detect and qualification was not required. (QC Batch 96932)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

H. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

I. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with non-detected results and high failing surrogate recoveries did not require qualification, and are not noted in this report.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

K. Compound Identification and Quantitation
The samples highlighted in **bold** typeface in Table 1 received full, level IV data validation. This included re-calculation of GC/MS tunes, initial and continuing calibrations, surrogate values, and internal standard areas; in addition to re-calculation of all reported results for SVOCs in these samples. If the project sample results were non-detected, the results for the QC samples were re-calculated and verified as correctly reported by the laboratory. For the samples that received full data validation, no problems were observed with compound identification and quantitation.

III. Total Petroleum Hydrocarbons - Gasoline Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for gasoline range organics in soil matrix samples met the project required reporting limit.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

E. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

H. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

IV. Total Petroleum Hydrocarbons – Diesel/Motor Oil Range (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for diesel and fuel oil range organics in soil matrix met the project required reporting limits. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

E. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples. Qualification was not required for samples with non-detect results that were associated with continuing calibration standards that failed high. Those failures are not noted in this report.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for diesel were outside the 65%-135% project acceptance criteria in QC samples 173881-004 MS/MSD at 29% and 49%, respectively. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC Batch 93629)
2. The percent recovery for diesel was outside the 65%-135% project acceptance criteria in QC sample 176242-004 MSD. The parent sample was associated with a site unrelated to the project site, and qualification was not required. (QC Batch 97026)

G. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

H. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with non-detected results and high failing surrogate recoveries did not require qualification, and are not noted in this report.

I. Compound Identification and Quantitation
The samples highlighted in **bold** typeface in Table 1 received full, level IV data validation. This included re-calculation of initial and continuing calibrations, and surrogate values; in addition to re-calculation of all reported results for TPH-diesel and motor oil in these samples. If the project sample results were non-detected, the results for the QC samples were re-calculated and verified as correctly reported by the laboratory. For the samples that received full data validation, no problems were observed with compound identification and quantitation.

Sample BB3EX139[0.5] (175838-001) did not receive silica gel clean-up procedure. Since the sample was non-detect for TPH-diesel and motor oil, the anomaly would not affect the usability of the data. All other samples were silica gel cleaned.

V. Organochlorine Pesticides (8081A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections D, E and I.

A. Reporting Limits

All laboratory reporting limits for pesticides in soil matrix samples met the project required reporting limits, with the following exceptions:

1. It should be noted that the reporting limits for all soils were raised due to dry weight correction.
2. Results for all compounds in sample BB3EX100[0.5] (173741-001) were reported as non-detected at a five-fold dilution due to the nature of the sample matrix.
3. Results for all compounds in sample BB3SS100[1] (173178-001) were reported as non-detected at a five-fold dilution due to the nature of the sample matrix.
4. Results for all compounds in sample BB3SS102[1.5] (173178-005) were reported as non-detected at a two-fold dilution due to the nature of the sample matrix.
5. Results for all compounds in sample BB3EX116[0.5] (174074-001) were reported as non-detected at a two-fold dilution due to the nature of the sample matrix.
6. Results for all compounds in sample BB4EX104[0.5] (175141-005) were reported as non-detected at a twenty-fold dilution due to the nature of the sample matrix.
7. Results for all compounds for sample DUP110504A (175836-004) were reported as non-detected at a two-fold dilution due to the nature of the sample matrix.

In all cases listed above, the reporting limits were raised by the dilution factors.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Initial Calibration

Initial calibration criteria were met for all calibration standards associated with the project samples, with the following exceptions:

1. When data from two columns was presented and one had acceptable percent relative standard deviations (%RSD) and the other did not, unless clearly stated, it was assumed that the laboratory used the column in control for reporting of sample results.
2. The 8/18/04 soil matrix initial calibration analyzed on instrument GC16 had three compounds with %RSDs greater than 20% on the reported column: beta-BHC (22%), delta-BHC (22%) and endosulfan sulfate

(25%). The non-detected results for beta-BHC, delta-BHC and endosulfan sulfate in the associated sample were qualified as estimated (UJ).

3. The 8/20/04 soil matrix initial calibration analyzed on instrument GC23 had one compound with a %RSD greater than 20% on both columns: endosulfan sulfate (23% and 23%) and one compound with a %RSD greater than 20% on the reported column: endrin ketone (22%). The non-detected results for endosulfan sulfate and endrin ketone in the associated samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to initial calibration percent relative standard deviation failure.

E. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Sample qualification was not required when continuing calibration standards failed high and were associated with samples with non-detect results. These failures were not noted in this report.
2. When data from two columns was presented and one had acceptable percent differences and the other did not, unless clearly noted, it was assumed that the laboratory used the column in control for reporting of sample results.
3. The 8/5/04 at 03:04 soil CCV analyzed on instrument GC16 had two compounds with %Ds less than -15% on both columns: delta-BHC (-18% and -16%) and 4,4'-DDT (-25% and -27%). The non-detected results for delta-BHC and 4,4'-DDT in the associated samples were qualified as estimated (UJ).
4. The 8/9/04 at 13:22 soil matrix CCV analyzed on instrument GC23 had one compound with %Ds less than -15% on both columns: endrin (-34% and -18%). The non-detected results for endrin in the associated samples were qualified as estimated (UJ).
5. The 8/20/04 at 00:50 soil matrix CCV analyzed on instrument GC16 had two compounds with %D less than -15% on both columns: 4,4'-DDT (-27% and -20%) and methoxychlor (-23% and -18%). The non-detected results for 4,4'-DDT and methoxychlor in the associated samples were qualified as estimated (UJ).
6. The 8/31/04 at 21:16 soil matrix CCV analyzed on instrument GC23 had one compound with a %D less than -15% on the reported column: 4,4'-DDT (-20%). The detected results for 4,4'-DDT in the associated samples were qualified as estimated with a low bias (J-).
7. The 10/6/04 at 19:31 soil matrix CCV analyzed on instrument GC23 had one compound with a %D less than -15% on the reported column: endrin ketone (-17%). The non-detected results for endrin ketone in the associated samples were qualified as estimated (UJ).
8. The 10/11/04 at 12:04 soil matrix CCV analyzed on instrument GC23 had two compounds with %D less than -15% on the reported column:

4,4'-DDT (-16%) and endrin ketone (-16%). The non-detected results for 4,4'-DDT and endrin ketone in the associated samples were qualified as estimated (UJ).

9. The 11/10/04 at 00:35 soil matrix CCV analyzed on instrument GC23 had one compound with a %D less than -15% on both columns: 4,4'-DDT (-23% and -18%). The non-detected result for 4,4'-DDT in the associated sample was qualified as estimated (UJ).

See Table 2 of this report for a summary of qualifications due to continuing calibration percent difference failure.

F. Performance Evaluation Mix (PEM) Check Standards

All PEM check standards met the project degradation criteria of 20% for endrin and 4,4'-DDT. PEM standards that failed and were associated with samples with non-detected results for the failing compounds, did not require qualification and are not noted in this report.

G. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for all spiked compounds failed the 65%-135% acceptance criteria in QC samples 173158-002 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 92485)
2. The percent recovery for five of the six pesticide spike compounds failed the 65%-135% acceptance criteria in QC samples 173711-001 MS and/or MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93347)
3. The percent recovery for 4,4'-DDT failed the 65%-135% acceptance criteria in QC samples 174988-006 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 95271)

H. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

I. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Samples with non-detected results and high failing surrogate recoveries did not require qualification, and are not noted in this report.
2. Samples with dilutions of five-fold or greater and failing surrogate recoveries did not require qualification, and are not noted in this report.

3. The percent recoveries for surrogate 2,4,5,6-tetrachloro-meta-xylene (TCMX) failed the 65%-135% project acceptance criteria in several project samples. The compounds associated with surrogate TCMX: alpha-BHC, beta-BHC, delta-BHC, gamma-BHC, aldrin, heptachlor, heptachlor epoxide and endosulfan I, were non-detect and qualified as estimated (UJ). The following table lists the project samples and the failing surrogate recoveries.

Project Sample Name	Laboratory Sample ID	TCMX % Recovery
BB3EX124[0.5]	174631-002	62
BB3EX137[0.5]	175836-001	38
BB3EX138[0.5]	175836-002	64
BB3EX141[5.5]	175836-007	55
BB3EX146[1.0]	176210-004	63

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

J. Compound Identification and Quantitation
The samples highlighted in **bold** typeface in Table 1 received full, level IV data validation. This included re-calculation of initial and continuing calibrations, and surrogate values; in addition to re-calculation of all reported results for pesticides in these samples. If the project sample results were non-detected, the results for the QC samples were re-calculated and verified as correctly reported by the laboratory. For the samples that received full data validation, no problems were observed with compound identification and quantitation.

VI. Polychlorinated Biphenyls (8082)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections F and H.

A. Reporting Limits
All laboratory reporting limits for PCBs in soil matrix met the project required reporting limits. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

E. Continuing Calibration

Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:

1. Sample qualification was not required when continuing calibration standards failed high and were associated with samples with non-detect results. These failures were not noted in this report.
2. When data from two columns was presented and one had acceptable percent differences and the other did not, unless clearly stated, it was assumed that the laboratory used the column in control for reporting of sample results.

F. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. Samples with non-detected results and high failing matrix spike recoveries did not require qualification, and are not noted in this report.
2. The percent recoveries for PCB-1016 and PCB-1260 were outside the 65%-135% project acceptance criteria in QC samples BB3EX118[0.5] MS/MSD at 46% and 54%, respectively. The relative percent difference (RPD) between the MS and MSD also failed the 35% project acceptance criteria for PCB-1016 at 39%. The non-detected result for PCB-1016 in the parent sample was qualified as estimated (UJ) for percent recovery and RPD failure. The non-detected result for PCB-1260 in the parent sample was qualified as estimated (UJ) for percent recovery failure. (QC Batch 94184)
3. The percent recoveries for PCB-1254 were outside the 65%-135% project acceptance criteria in QC samples 176011-002 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification was not required. (QC Batch 96627)
4. The percent recovery for PCB-1254 was outside the project acceptance criteria in QC sample BB3EX153[0.5] (176248-003) MSD at 173%. The result for PCB-1254 in the parent sample was non-detect and qualification was not required. (QC Batch 96948)
5. The percent recoveries for PCB-1254 were outside the project acceptance criteria in QC samples BB3EX152[0.5] (176248-005) MS/MSD at 154% and 174%. The result for PCB-1254 in the parent sample was non-detect and qualification was not required. (QC Batch 96948)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery and RPD failures.

G. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

H. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples, with the following exceptions:

1. Samples with non-detected results and high failing surrogate recoveries did not require qualification, and are not noted in this report.
2. The percent recoveries for surrogate decachlorobiphenyl (DCB) failed the 65%-135% project acceptance criteria in two samples. The compounds associated with surrogate DCB: PCB-1248, PCB-1254, and PCB-1260, were non-detect and qualified as estimated (UJ). The percent recoveries for surrogate 2,4,5,6-tetrachloro-meta-xylene (TCMX) failed the 65%-135% project acceptance criteria in one sample. The compounds associated with surrogate TCMX: PCB-1016, PCB-1221, PCB-1232 and PCB-1242, were non-detect and qualified as estimated (UJ). The following table lists the project samples and the failing surrogate recoveries.

Project Sample Name	Laboratory Sample ID	DCB % Recovery	TCMX % Recovery
BB3EX118[0.5]	174320-002	42	20
BB3EX130[0.5]	175037-003	61	75 (okay)

See Table 2 of this report for a summary of qualifications due to surrogate percent recovery failures.

I. Compound Identification and Quantitation

The samples highlighted in **bold** typeface in Table 1 received full, level IV data validation. This included re-calculation of initial and continuing calibrations, and surrogate values; in addition to re-calculation of all reported results for PCBs in these samples. If the project sample results were non-detected, the results for the QC samples were re-calculated and verified as correctly reported by the laboratory. For the samples that received full data validation, no problems were observed with compound identification and quantitation.

VII. Chlorinated Herbicides (8151A)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits

All laboratory reporting limits for chlorinated herbicides in soil matrix samples met the project required reporting limits. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples. When data from two columns was presented and one had acceptable percent relative standard deviations (%RSD) and the other did not, unless clearly stated, it was assumed that the laboratory used the column in control for reporting of sample results.

E. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples, with the following exceptions:
1. Sample qualification was not required when continuing calibration standards failed high and were associated with samples with non-detect results. These failures were not noted in this report.
2. When data from two columns was presented and one had acceptable percent differences and the other did not, unless clearly stated, it was assumed that the laboratory used the column in control for reporting of sample results.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:
1. The percent recoveries for 2,4-D were outside the 65%-135% project acceptance criteria in QC samples 04-5335-2 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification was not required. (QC Batch 04G4065)

G. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

H. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

I. Compound Identification and Quantitation
The samples highlighted in **bold** typeface in Table 1 received full, level IV data validation. This included re-calculation of initial and continuing calibrations, and surrogate values; in addition to re-calculation of all reported results for herbicides in these samples. If the project sample results were non-detected, the results for the QC samples were re-calculated and verified as correctly reported by the laboratory. For the

samples that received full data validation, no problems were observed with compound identification and quantitation.

VIII. Metals (6010B/7471A)

Overall, the data are usable as reported with any added qualifiers. Qualifications were required for the reasons noted in Sections D, E and H.

A. Reporting Limits

The laboratory reporting limits for metals in soil matrix samples met the project required reporting limits listed in Table 2-5.21-1 of the QAPP. It should be noted that the reporting limits for all soils were raised due to dry weight correction.

B. Holding Times

Technical holding time criteria were met for all project samples.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Initial and Continuing Calibrations

All initial and continuing calibration standards associated with the project samples met QC acceptance criteria, with the following exception:

1. The 11/29/04 reporting limit check standard, also known as a CRI standard, analyzed on instrument MET07 had one metal with a percent recovery greater than the 70%-130% project acceptance criteria, selenium (145%). The associated project samples with values of selenium between the reporting limit and two times the reporting limit were qualified as estimated with a high bias (J+).

See Table 2 of this report for a summary of qualifications due to reporting limit check standard percent recovery failure.

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for antimony, barium, cobalt, copper and vanadium failed the 75%-125% acceptance criteria in QC samples BB3SS100[1] MS/MSD. The amount of copper present in the parent sample was greater than four times the amount spiked, and qualification was not required. The results for antimony, cobalt and vanadium in the associated samples were qualified as estimated with a low bias (J-/UJ). The detected results for barium in the associated samples were qualified as estimated with a high bias (J+). (QC batch 92496)
2. The percent recovery for lead failed the 75%-125% acceptance criteria in QC sample 173588-001 MS. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93111)

3. The percent recoveries for antimony and copper failed the 75%-125% acceptance criteria in QC samples 173729-004 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93374)
4. The percent recoveries for antimony, barium, chromium, copper, nickel and vanadium failed the 75%-125% acceptance criteria in QC samples 173676-005 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93417)
5. The percent recoveries for antimony, chromium and nickel failed the 75%-125% acceptance criteria in QC samples 173819-004 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93498)
6. The percent recoveries for antimony, chromium, copper, nickel, vanadium and zinc failed the 75%-125% acceptance criteria in QC samples 173840-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93529)
7. The percent recoveries for antimony failed the 75%-125% acceptance criteria in QC samples 173852-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93570)
8. The percent recoveries failed the 75%-125% acceptance criteria in QC samples BB3EX111[0.5] MS/MSD for antimony and vanadium. The results for antimony and vanadium in the associated samples were qualified as estimated with a low bias (J-/UJ). (QC batch 93867)
9. The percent recoveries for antimony, cobalt, copper, nickel and zinc failed the 75%-125% acceptance criteria in QC samples 174065-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93868)
10. The percent recoveries for antimony and nickel failed the 75%-125% acceptance criteria in QC samples BB3EX116[0.5] MS/MSD. The results for antimony and nickel in the associated samples were qualified as estimated with a low bias (J-/UJ). (QC batch 93868)
11. The percent recoveries for antimony, chromium, nickel and vanadium failed the 75%-125% acceptance criteria in QC samples BB3EX118[0.5] MS/MSD. The amount of nickel present in the parent sample was greater than four times the amount spiked, and qualification was not required. The results for antimony, chromium and vanadium in the associated samples were qualified as estimated with a low bias (J-/UJ). (QC batch 94198)
12. The percent recoveries for antimony failed the 75%-125% acceptance criteria in QC samples BB3EX121[0.5] MS/MSD. The non-detected results for antimony in the associated samples were qualified as estimated (UJ). (QC batch 94198)

13. The percent recoveries for antimony, iron, manganese and nickel failed the 75%-125% acceptance criteria in QC samples 174825-003 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 94861)
14. The percent recoveries for antimony, barium, cobalt, iron, manganese and nickel failed the 75%-125% acceptance criteria in QC samples BB3EX128[0.5] (175037-001) MS/. The amounts of iron, manganese and nickel present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The results for antimony in the associated samples were non-detect and qualified as estimated (UJ). The detected results for barium and cobalt in the associated samples were qualified as estimated with a high bias (J+). (QC batch 95120)
15. The percent recoveries for antimony, copper, iron, manganese, nickel, vanadium and zinc failed the 75%-125% acceptance criteria in QC samples 174988-004 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 95280)
16. The percent recoveries for antimony, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, nickel, vanadium and zinc failed the 75%-125% acceptance criteria in QC samples 174988-017 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 95280)
17. The percent recoveries for antimony, iron, manganese and zinc failed the 75%-125% acceptance criteria in QC samples 175833-002 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 96221)
18. The percent recoveries for antimony, chromium, cobalt, iron, lead, manganese, nickel and zinc failed the 75%-125% acceptance criteria in QC samples 175874-002 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 96263)
19. The percent recoveries for mercury failed the 75%-125% acceptance criteria in QC samples 175798-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 96342)
20. The percent recoveries for antimony and iron failed the 75%-125% acceptance criteria in QC samples 176109-002 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 96610)

21. The percent recoveries for antimony, barium, copper, iron, lead, manganese, vanadium and zinc failed the 75%-125% acceptance criteria in QC samples 176180-001 MS/MSD. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 96876)
22. The percent recoveries for antimony, arsenic, barium, beryllium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, nickel, selenium, silver, thallium, vanadium and zinc failed the 75%-125% acceptance criteria in QC samples BB3EX152[0.5] MS/MSD. The amounts of copper, iron and manganese present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected results for barium in the associated samples were qualified as estimated with a high bias (J+). The results for antimony, arsenic, beryllium, chromium, cobalt, lead, molybdenum, nickel, selenium, silver, thallium, vanadium and zinc in the associated samples were qualified as estimated with a low bias (J-/UJ) for percent recovery failure. (QC batch 96915)
23. The percent recoveries for antimony, iron and manganese failed the 75%-125% acceptance criteria in QC samples BB3-CLLAB MS/MSD. The amounts of iron and manganese present in the parent sample were greater than four times the amounts spiked, and qualification was not required. The detected result for antimony in the associated sample was qualified as estimated with a low bias (J-) for percent recovery failure. (QC batch 97523)

See Table 2 of this report for a summary of qualifications due to matrix spike percent recovery failures.

F. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

G. ICP Interference Check Standards

All QC criteria were met for the ICP interference check standards associated with the project samples.

H. ICP Serial Dilution

All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exceptions:

1. The percent difference for cadmium failed the 10% project acceptance criteria in QC sample 173676-005 at 42%. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93417).
2. The percent difference for cadmium failed the 10% project acceptance criteria in QC sample 173840-001 at 43%. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 93529).

3. The percent difference for copper failed the 10% project acceptance criteria in QC sample BB3EX111[0.5] (174073-001) at 11%. The results for copper in the associated samples were qualified as estimated (J/UJ) due to serial dilution percent difference failure. (QC batch 93867)
4. The percent difference for copper failed the 10% project acceptance criteria in QC sample BB3EX125[0.5] (174631-001) at 21%. The results for copper in the associated samples were qualified as estimated (J/UJ) due to serial dilution percent difference failure. (QC batch 94604)
5. The percent difference for beryllium failed the 10% project acceptance criteria in QC sample BB3EX128[0.5] (175037-001) at 12%. The results for beryllium in the associated samples were qualified as estimated (J/UJ) due to serial dilution percent difference failure. (QC batch 95120)
6. The percent difference for beryllium failed the 10% project acceptance criteria in QC sample 174988-004 at 13%. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 95280).
7. The percent difference for beryllium failed the 10% project acceptance criteria in QC sample 176180-001. The parent sample was associated with a site unrelated to the project site, and qualification of the project samples was not required. (QC batch 96876).
8. The percent difference for beryllium failed the 10% project acceptance criteria in QC sample BB3EX152[0.5] (176248-005) at 13%. The results for beryllium in the associated samples were qualified as estimated (J/UJ) due to serial dilution percent difference failure. (QC batch 96915)
9. The percent difference for beryllium failed the 10% project acceptance criteria in QC sample BB3-CLLAB (176656-002) at 26%. The detected result for beryllium in the associated sample was qualified as estimated (J) due to serial dilution percent difference failure. (QC batch 97523)

See Table 2 of this report for a summary of qualifications due to serial dilution percent difference failure.

I. Compound Identification and Quantitation

The samples highlighted in **bold** typeface in Table 1 received full, level IV data validation. This included re-calculation of all reported results for metals in these samples. For the samples that received full data validation, no problems were observed with compound identification and quantitation.

The following paragraphs highlight the essential findings of the field duplicate samples:

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and its associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than the twice the reporting limit for those analytes that were at or near the detection limit. Eight samples were collected in duplicate for the Baker Beach 3 and 4 Sites.

Project Sample Primary ID	Lab Sample ID	Project Sample Duplicate ID	Lab Sample ID
BB3EX108[0.5]	173857-001	DUP080504A	173857-002
BB3EX120[0.5]	174320-004	DUP083004A	174320-005
BB3EX131[0.5]	175037-004	DUP100104A	175037-005
BB4EX100[0.5]	175141-001	DUP100704A	175141-009
BB3EX143[0.5]	175836-003	DUP110504A	175836-004
BB3EX150[2.5]	176210-009	DUP112204A	176210-010
BB3EX154[0.5]	176248-001	DUP112304A	176248-002
BB3EX156[0.5]	176702-001	DUP121604A	176702-002

The attached Table 3 summarizes the field duplicate sample results. The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exceptions:

1. In field duplicates BB3EX120[0.5] and DUP083004A, the RPD between the detected results failed the 50% acceptance criteria for zinc at 81%.
2. In field duplicates BB3EX143[0.5] and DUP110504A, the RPDs between the detected results failed the 50% acceptance criteria for barium at 75% and lead at 74%.
3. In field duplicates BB3EX150[2.5] and DUP112204A, the RPD between the detected results failed the 50% acceptance criteria for lead at 55%.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pairs listed above may be due to the sample matrix, sample non-homogeneity, sampling or laboratory technique, or method defects. Since the effect on the quality of the data is not known, data is not qualified for field duplicate failure.

SUMMARY

The attached Table 1 lists the samples and analyses included in the data validation effort. The attached Table 2 summarizes the data qualifications of all project samples for each test method included in the data packages.

USABILITY

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory and full levels of data validation, all other results are considered valid and usable for all purposes.

VALIDATION QUALIFIERS IDENTIFICATION

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 1
Sample Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Site Sample ID	Lab Sample ID	Date Sampled	Analyses	Sample Type
BB3SS100[1]	173178-001	30-Jun-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3SS100[2]	173178-002	30-Jun-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3SS101[1.5]	173178-003	30-Jun-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3SS101[2.5]	173178-004	30-Jun-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3SS102[1.5]	173178-005	30-Jun-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3SS102[2.5]	173178-006	30-Jun-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3SS103[6]	173572-001	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS103[4]	173572-002	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS103[2]	173572-003	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS104[2]	173572-004	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS104[4]	173572-005	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS104[6]	173572-006	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS105[2]	173572-007	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS105[4]	173572-008	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3SS105[6]	173572-009	21-Jul-04	Total Lead (6010B), STLC Lead (6010B)	Soil
BB3EX100[0.5]	173741-001	30-Jul-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX101[0.5]	173773-001	2-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX102[0.5]	173773-002	2-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX103[0.5]	173773-003	2-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX104[0.5]	173773-004	2-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX105[0.5]	173773-005	2-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3SS106[0.5]	173824-001	4-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX106[0.5]	173825-001	4-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX107[0.5]	173859-001	5-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX109[0.5]	173875-001	6-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX110[0.5]	173875-002	6-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil

Table 1
Sample Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Site Sample ID	Lab Sample ID	Date Sampled	Analyses	Sample Type
BB3EX108[0.5]	**173857-001**	**5-Aug-04**	**VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)**	**Soil (1)**
DUP080504A	**173857-002**	**5-Aug-04**	**VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)**	**FD (1)**
BB3EX111[0.5]	174073-001	18-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX112[0.5]	174073-002	18-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX113[0.5]	174073-003	18-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX114[0.5]	174073-004	18-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX115[0.5]	174073-005	18-Aug-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX116[0.5]	174074-001	18-Aug-04	VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)	Soil
TB081804A	174074-002	18-Aug-04	Volatile Organic Compounds (8260B)	Trip Blank
BB3EX117[0.5]	**174320-001**	**30-Aug-04**	**Total Metals (6010B)**	**Soil**
BB3EX118[0.5]	**174320-002**	**30-Aug-04**	**Pesticides (8081A), PCBs (8082), Total Metals (6010B)**	**Soil**
BB3EX119[0.5]	**174320-003**	**30-Aug-04**	**Semi-volatile Organic Compounds (8270C)**	**Soil**
BB3EX120[0.5]	**174320-004**	**30-Aug-04**	**Pesticides (8081A), PCBs (8082), Total Metals (6010B)**	**Soil (2)**
DUP083004A	**174320-005**	**30-Aug-04**	**Pesticides (8081A), PCBs (8082), Total Metals (6010B)**	**FD (2)**
BB3EX121[0.5]	**174320-006**	**30-Aug-04**	**Pesticides (8081A), PCBs (8082), Total Metals (6010B)**	**Soil**
BB3EX125[0.5]	174631-001	14-Sep-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX124[0.5]	174631-002	14-Sep-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX123[0.5]	174631-003	14-Sep-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX122[0.5]	174631-004	14-Sep-04	Total Metals (6010B)	Soil
BB3EX127[0.5]	174631-005	14-Sep-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX126[0.5]	174631-006	14-Sep-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX119[0.5]	174830-001	30-Aug-04	Total Metals (6010B)	Soil
BB3EX128[0.5]	175037-001	1-Oct-04	Total Metals (6010B)	Soil

Table 1
Sample Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Site Sample ID	Lab Sample ID	Date Sampled	Analyses	Sample Type
BB3EX129[0.5]	175037-002	1-Oct-04	Total Metals (6010B)	Soil
BB3EX130[0.5]	175037-003	1-Oct-04	VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)	Soil
BB3EX131[0.5]	175037-004	1-Oct-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil (3)
DUP100104A	175037-005	1-Oct-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	FD (3)
BB3EX132[0.5]	175037-006	1-Oct-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX133[0.5]	175037-007	1-Oct-04	Total Metals (6010B)	Soil
BB3EX134[0.5]	175037-008	1-Oct-04	Total Metals (6010B)	Soil
BB3EX135[0.5]	175037-009	1-Oct-04	Total Metals (6010B)	Soil
BB3EX136[0.5]	175037-010	1-Oct-04	Total Metals (6010B)	Soil
TB100104A	175037-011	1-Oct-04	Volatile Organic Compounds (8260B)	Trip Blank
BB4EX100[0.5]	**175141-001**	**7-Oct-04**	**VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)**	**Soil (4)**
BB4EX101[0.5]	**175141-002**	**7-Oct-04**	**Pesticides (8081A), Total Metals (6010B)**	**Soil**
BB4EX102[0.5]	**175141-003**	**7-Oct-04**	**Pesticides (8081A), Total Metals (6010B)**	**Soil**
BB4EX103[0.5]	**175141-004**	**7-Oct-04**	**Pesticides (8081A), Total Metals (6010B)**	**Soil**
BB4EX104[0.5]	**175141-005**	**7-Oct-04**	**Pesticides (8081A), Total Metals (6010B)**	**Soil**
BB4EX105[0.5]	**175141-006**	**7-Oct-04**	**Pesticides (8081A), Total Metals (6010B)**	**Soil**
BB4EX106[0.5]	**175141-007**	**7-Oct-04**	**Pesticides (8081A), Total Metals (6010B)**	**Soil**
TB100704A	**175141-008**	**7-Oct-04**	**Volatile Organic Compounds (8260B)**	**Trip Blank**
DUP100704A	**175141-009**	**7-Oct-04**	**VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)**	**FD (4)**
BB4EX107[0.5]	**175141-010**	**7-Oct-04**	**Pesticides (8081A), Total Metals (6010B)**	**Soil**
BB3EX137[0.5]	175836-001	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX138[0.5]	175836-002	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX143[0.5]	175836-003	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil (5)

Table 1
Sample Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Site Sample ID	Lab Sample ID	Date Sampled	Analyses	Sample Type
DUP110504A	175836-004	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	FD (5)
BB3EX140[0.5]	175836-005	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX141[2.5]	175836-006	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX141[5.5]	175836-007	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX142[0.5]	175836-008	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX144[0.5]	175836-009	5-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX139[0.5]	175838-001	5-Nov-04	VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)	Soil
TB110504A	175838-002	5-Nov-04	Volatile Organic Compounds (8260B)	Trip Blank
BB3 COMP	176111-005	17-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX145[0.5]	176210-001	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX145[1.0]	176210-002	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX146[0.5]	176210-003	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX146[1.0]	176210-004	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX147[0.5]	176210-005	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX147[1.5]	176210-006	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX149[0.5]	176210-007	22-Nov-04	VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)	Soil
BB3EX150[0.5]	176210-008	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
BB3EX150[2.5]	176210-009	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil (6)
DUP112204A	176210-010	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	FD (6)
BB3EX148[0.5]	176210-011	22-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
TB112204A	176210-012	22-Nov-04	Volatile Organic Compounds (8260B)	Trip Blank
BB3EX154[0.5]	176248-001	23-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil (7)
DUP112304A	176248-002	23-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	FD (7)
BB3EX153[0.5]	176248-003	23-Nov-04	VOCs (8260B), SVOCs (8270C), TPH-Extractable (8015B), Pesticides (8081A), PCBs (8082), Herbicides (8151), Total Metals (6010B & 7471A)	Soil
BB3EX151[0.5]	176248-004	23-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil

Table 1
Sample Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Site Sample ID	Lab Sample ID	Date Sampled	Analyses	Sample Type
BB3EX152[0.5]	176248-005	23-Nov-04	Pesticides (8081A), PCBs (8082), Total Metals (6010B)	Soil
TB112304A	176248-006	23-Nov-04	Volatile Organic Compounds (8260B)	Trip Blank
BB3EX155[0.5]	176656-001	15-Dec-04	Pesticides (8081A)	Soil
BB3-CLLAB	176656-002	15-Dec-04	TPH-Gasoline (8015B), TPH-Extractable (8015B), Total Metals (6010B)	Soil
BB3EX156[0.5]	176702-001	16-Dec-04	Pesticides (8081A), PCBs (8082)	Soil (8)
DUP121604A	176702-002	16-Dec-04	Pesticides (8081A), PCBs (8082)	FD (8)

VOCs: Volatile Organic Compounds
SVOCs: Semi-volatile Organic Compounds
TPH: Total Petroleum Hydrocarbons
MO: Motor Oil
PCBs: Polychlorinated Biphenyls
STLC: Soluble Threshold Limit Concentration (Waste Extraction Test, WET)
FD: Field duplicate of previous numbered sample, (1), (2), etc.

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
BB3SS100[1]	173178-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3SS100[1]	173178-001	6010B	Barium	J+	MS/MSD percent recovery failure
BB3SS100[1]	173178-001	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3SS100[1]	173178-001	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3SS100[2]	173178-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3SS100[2]	173178-002	6010B	Barium	J+	MS/MSD percent recovery failure
BB3SS100[2]	173178-002	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3SS100[2]	173178-002	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3SS101[1.5]	173178-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3SS101[1.5]	173178-003	6010B	Barium	J+	MS/MSD percent recovery failure
BB3SS101[1.5]	173178-003	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3SS101[1.5]	173178-003	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3SS101[2.5]	173178-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3SS101[2.5]	173178-004	6010B	Barium	J+	MS/MSD percent recovery failure
BB3SS101[2.5]	173178-004	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3SS101[2.5]	173178-004	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3SS102[1.5]	173178-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3SS102[1.5]	173178-005	6010B	Barium	J+	MS/MSD percent recovery failure
BB3SS102[1.5]	173178-005	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3SS102[1.5]	173178-005	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3SS102[2.5]	173178-006	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3SS102[2.5]	173178-006	6010B	Barium	J+	MS/MSD percent recovery failure
BB3SS102[2.5]	173178-006	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3SS102[2.5]	173178-006	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX101[0.5]	173773-001	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
BB3EX101[0.5]	173773-001	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB3EX102[0.5]	173773-002	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
BB3EX102[0.5]	173773-002	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB3EX103[0.5]	173773-003	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
BB3EX103[0.5]	173773-003	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB3EX104[0.5]	173773-004	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
BB3EX104[0.5]	173773-004	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB3EX105[0.5]	173773-005	8081A	delta-BHC	UJ	Continuing calibration verification percent difference failure
BB3EX105[0.5]	173773-005	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB3EX107[0.5]	173859-001	8081A	Endrin	UJ	Continuing calibration verification percent difference failure

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
BB3EX109[0.5]	173875-001	8081A	Endrin	UJ	Continuing calibration verification percent difference failure
BB3EX110[0.5]	173875-002	8081A	Endrin	UJ	Continuing calibration verification percent difference failure
BB3EX108[0.5]	173857-001	8270C	Benzoic acid	UJ	Continuing calibration verification percent difference failure
DUP080504A	173857-002	8270C	Benzoic acid	UJ	Continuing calibration verification percent difference failure
BB3EX116[0.5]	174074-001	8260B	Freon 12	UJ	Continuing calibration verification percent difference failure
TB081804A	174074-002	8260B	Freon 12	UJ	Continuing calibration verification percent difference failure
TB081804A	174074-002	8260B	Bromomethane	UJ	Continuing calibration verification percent difference failure
BB3EX116[0.5]	174074-001	8270C	Pyrene	J-	MS/MSD percent recovery failure
BB3EX111[0.5]	174073-001	8081A	beta-BHC	UJ	Initial calibration percent relative standard deviation failure
BB3EX111[0.5]	174073-001	8081A	delta-BHC	UJ	Initial calibration percent relative standard deviation failure
BB3EX111[0.5]	174073-001	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX111[0.5]	174073-001	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB3EX111[0.5]	174073-001	8081A	Methoxychlor	UJ	Continuing calibration verification percent difference failure
BB3EX112[0.5]	174073-002	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX112[0.5]	174073-002	8081A	Endrin ketone	UJ	Initial calibration percent relative standard deviation failure
BB3EX113[0.5]	174073-003	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX113[0.5]	174073-003	8081A	Endrin ketone	UJ	Initial calibration percent relative standard deviation failure
BB3EX114[0.5]	174073-004	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX114[0.5]	174073-004	8081A	Endrin ketone	UJ	Initial calibration percent relative standard deviation failure
BB3EX115[0.5]	174073-005	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX115[0.5]	174073-005	8081A	Endrin ketone	UJ	Initial calibration percent relative standard deviation failure
BB3EX116[0.5]	174074-001	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX118[0.5]	174320-002	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX120[0.5]	174320-004	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX120[0.5]	174320-004	8081A	4,4'-DDT	J-	Continuing calibration verification percent difference failure
DUP083004A	174320-005	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
DUP083004A	174320-005	8081A	4,4'-DDT	J-	Continuing calibration verification percent difference failure
BB3EX121[0.5]	174320-006	8081A	Endosulfan sulfate	UJ	Initial calibration percent relative standard deviation failure
BB3EX124[0.5]	174631-002	8081A	Aldrin	UJ	Surrogate percent recovery failure
BB3EX124[0.5]	174631-002	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
BB3EX124[0.5]	174631-002	8081A	beta-BHC	UJ	Surrogate percent recovery failure
BB3EX124[0.5]	174631-002	8081A	delta-BHC	UJ	Surrogate percent recovery failure
BB3EX124[0.5]	174631-002	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
BB3EX124[0.5]	174631-002	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
BB3EX124[0.5]	174631-002	8081A	Heptachlor	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
BB3EX124[0.5]	174631-002	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
BB3EX118[0.5]	174320-002	8082	PCB-1016	UJ	Surrogate %R failure, MS/MSD %R and RPD failure
BB3EX118[0.5]	174320-002	8082	PCB-1221	UJ	Surrogate percent recovery failure
BB3EX118[0.5]	174320-002	8082	PCB-1232	UJ	Surrogate percent recovery failure
BB3EX118[0.5]	174320-002	8082	PCB-1242	UJ	Surrogate percent recovery failure
BB3EX118[0.5]	174320-002	8082	PCB-1248	UJ	Surrogate percent recovery failure
BB3EX118[0.5]	174320-002	8082	PCB-1254	UJ	Surrogate percent recovery failure
BB3EX118[0.5]	174320-002	8082	PCB-1260	UJ	Surrogate %R failure, MS/MSD %R failure
BB3EX111[0.5]	174073-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX112[0.5]	174073-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX113[0.5]	174073-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX114[0.5]	174073-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX115[0.5]	174073-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX111[0.5]	174073-001	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX112[0.5]	174073-002	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX113[0.5]	174073-003	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX114[0.5]	174073-004	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX115[0.5]	174073-005	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX111[0.5]	174073-001	6010B	Copper	J	ICP serial dilution %D failure
BB3EX112[0.5]	174073-002	6010B	Copper	J	ICP serial dilution %D failure
BB3EX113[0.5]	174073-003	6010B	Copper	J	ICP serial dilution %D failure
BB3EX114[0.5]	174073-004	6010B	Copper	J	ICP serial dilution %D failure
BB3EX115[0.5]	174073-005	6010B	Copper	J	ICP serial dilution %D failure
BB3EX116[0.5]	174074-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX116[0.5]	174074-001	6010B	Nickel	J-	MS/MSD percent recovery failure
BB3EX117[0.5]	174320-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX118[0.5]	174320-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX118[0.5]	174320-002	6010B	Chromium	J-	MS/MSD percent recovery failure
BB3EX118[0.5]	174320-002	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX120[0.5]	174320-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP083004A	174320-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX121[0.5]	174320-006	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX125[0.5]	174631-001	6010B	Copper	J	ICP serial dilution %D failure
BB3EX124[0.5]	174631-002	6010B	Copper	J	ICP serial dilution %D failure
BB3EX123[0.5]	174631-003	6010B	Copper	J	ICP serial dilution %D failure

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
BB3EX122[0.5]	174631-004	6010B	Copper	J	ICP serial dilution %D failure
BB3EX127[0.5]	174631-005	6010B	Copper	J	ICP serial dilution %D failure
BB3EX126[0.5]	174631-006	6010B	Copper	J	ICP serial dilution %D failure
BB3EX130[0.5]	175037-003	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
BB4EX104[0.5]	175141-005	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB4EX104[0.5]	175141-005	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
BB4EX106[0.5]	175141-007	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB4EX106[0.5]	175141-007	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
BB4EX107[0.5]	175141-010	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB4EX107[0.5]	175141-010	8081A	Endrin ketone	UJ	Continuing calibration verification percent difference failure
BB3EX137[0.5]	175836-001	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
BB3EX137[0.5]	175836-001	8081A	beta-BHC	UJ	Surrogate percent recovery failure
BB3EX137[0.5]	175836-001	8081A	delta-BHC	UJ	Surrogate percent recovery failure
BB3EX137[0.5]	175836-001	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
BB3EX137[0.5]	175836-001	8081A	Aldrin	UJ	Surrogate percent recovery failure
BB3EX137[0.5]	175836-001	8081A	Heptachlor	UJ	Surrogate percent recovery failure
BB3EX137[0.5]	175836-001	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
BB3EX137[0.5]	175836-001	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	beta-BHC	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	delta-BHC	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	Aldrin	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	Heptachlor	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
BB3EX138[0.5]	175836-002	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	beta-BHC	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	delta-BHC	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	Aldrin	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	Heptachlor	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
BB3EX141[5.5]	175836-007	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
BB3EX130[0.5]	175037-003	8082	PCB-1248	UJ	Surrogate percent recovery failure

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
BB3EX130[0.5]	175037-003	8082	PCB-1254	UJ	Surrogate percent recovery failure
BB3EX130[0.5]	175037-003	8082	PCB-1260	UJ	Surrogate percent recovery failure
BB3EX128[0.5]	175037-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX128[0.5]	175037-001	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX128[0.5]	175037-001	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX128[0.5]	175037-001	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX129[0.5]	175037-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX129[0.5]	175037-002	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX129[0.5]	175037-002	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX129[0.5]	175037-002	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX130[0.5]	175037-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX130[0.5]	175037-003	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX130[0.5]	175037-003	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX130[0.5]	175037-003	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX131[0.5]	175037-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX131[0.5]	175037-004	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX131[0.5]	175037-004	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX131[0.5]	175037-004	6010B	Cobalt	J+	MS/MSD percent recovery failure
DUP100104A	175037-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP100104A	175037-005	6010B	Barium	J+	MS/MSD percent recovery failure
DUP100104A	175037-005	6010B	Beryllium	J	ICP serial dilution %D failure
DUP100104A	175037-005	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX132[0.5]	175037-006	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX132[0.5]	175037-006	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX132[0.5]	175037-006	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX132[0.5]	175037-006	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX133[0.5]	175037-007	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX133[0.5]	175037-007	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX133[0.5]	175037-007	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX133[0.5]	175037-007	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX134[0.5]	175037-008	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX134[0.5]	175037-008	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX134[0.5]	175037-008	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX134[0.5]	175037-008	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX135[0.5]	175037-009	6010B	Antimony	UJ	MS/MSD percent recovery failure

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
BB3EX135[0.5]	175037-009	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX135[0.5]	175037-009	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX135[0.5]	175037-009	6010B	Cobalt	J+	MS/MSD percent recovery failure
BB3EX136[0.5]	175037-010	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX136[0.5]	175037-010	6010B	Barium	J+	MS/MSD percent recovery failure
BB3EX136[0.5]	175037-010	6010B	Beryllium	J	ICP serial dilution %D failure
BB3EX136[0.5]	175037-010	6010B	Cobalt	J+	MS/MSD percent recovery failure
TB110504A	175838-002	8260B	Bromoform	UJ	Continuing calibration verification percent difference failure
BB3EX139[0.5]	175838-001	8270C	2,4-Dinitrophenol	UJ	Continuing calibration verification percent difference failure
BB3EX139[0.5]	175838-001	8081A	4,4'-DDT	UJ	Continuing calibration verification percent difference failure
BB3EX146[1.0]	176210-004	8081A	alpha-BHC	UJ	Surrogate percent recovery failure
BB3EX146[1.0]	176210-004	8081A	beta-BHC	UJ	Surrogate percent recovery failure
BB3EX146[1.0]	176210-004	8081A	delta-BHC	UJ	Surrogate percent recovery failure
BB3EX146[1.0]	176210-004	8081A	gamma-BHC	UJ	Surrogate percent recovery failure
BB3EX146[1.0]	176210-004	8081A	Aldrin	UJ	Surrogate percent recovery failure
BB3EX146[1.0]	176210-004	8081A	Heptachlor	UJ	Surrogate percent recovery failure
BB3EX146[1.0]	176210-004	8081A	Heptachlor epoxide	UJ	Surrogate percent recovery failure
BB3EX146[1.0]	176210-004	8081A	Endosulfan I	UJ	Surrogate percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Arsenic	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Barium	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Beryllium	J-	MS/MSD percent recovery failure, ICP serial dilution failure
BB3EX154[0.5]	176248-001	6010B	Chromium	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Lead	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Molybdenum	UJ	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Nickel	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Selenium	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Silver	UJ	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Thallium	UJ	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX154[0.5]	176248-001	6010B	Zinc	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Antimony	UJ	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Arsenic	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Barium	J-	MS/MSD percent recovery failure

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
DUP112304A	176248-002	6010B	Beryllium	J-	MS/MSD percent recovery failure, ICP serial dilution failure
DUP112304A	176248-002	6010B	Chromium	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Cobalt	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Lead	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Molybdenum	UJ	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Nickel	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Selenium	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Silver	UJ	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Thallium	UJ	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Vanadium	J-	MS/MSD percent recovery failure
DUP112304A	176248-002	6010B	Zinc	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Arsenic	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Barium	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Beryllium	J-	MS/MSD percent recovery failure, ICP serial dilution failure
BB3EX153[0.5]	176248-003	6010B	Chromium	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Lead	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Molybdenum	UJ	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Nickel	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Selenium	J+	CRI %R failure, MS/MSD %R failure
BB3EX153[0.5]	176248-003	6010B	Silver	UJ	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Thallium	UJ	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX153[0.5]	176248-003	6010B	Zinc	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Arsenic	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Barium	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Beryllium	J-	MS/MSD percent recovery failure, ICP serial dilution failure
BB3EX151[0.5]	176248-004	6010B	Chromium	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Lead	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Molybdenum	UJ	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Nickel	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Selenium	UJ	MS/MSD percent recovery failure

Table 2
Qualified Data Summary
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Sample ID	Lab ID	Analysis Method	Compound	Qualifier	Reason
BB3EX151[0.5]	176248-004	6010B	Silver	UJ	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Thallium	UJ	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX151[0.5]	176248-004	6010B	Zinc	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Antimony	UJ	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Arsenic	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Barium	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Beryllium	J-	MS/MSD percent recovery failure, ICP serial dilution failure
BB3EX152[0.5]	176248-005	6010B	Chromium	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Cobalt	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Lead	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Molybdenum	UJ	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Nickel	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Selenium	UJ	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Silver	UJ	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Thallium	UJ	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Vanadium	J-	MS/MSD percent recovery failure
BB3EX152[0.5]	176248-005	6010B	Zinc	J-	MS/MSD percent recovery failure
BB3-CLLAB	176656-002	6010B	Antimony	J-	MS/MSD percent recovery failure
BB3-CLLAB	176656-002	6010B	Beryllium	J	ICP serial dilution %D failure

Table 3
Summary of Field Duplicates
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Original Sample ID	Lab ID	Matrix	Compound	Original Results	Duplicate Sample ID	Lab ID	Duplicate Results	RPD
BB3EX108[0.5]	173857-001	Soil	All VOCs	ND	DUP080504A	173857-002	ND	NA
BB3EX108[0.5]	173857-001	Soil	All SVOCs	ND	DUP080504A	173857-002	ND	NA
BB3EX108[0.5]	173857-001	Soil	Diesel	2.3	DUP080504A	173857-002	1.8	24%
BB3EX108[0.5]	173857-001	Soil	Motor Oil	ND	DUP080504A	173857-002	ND	NA
BB3EX108[0.5]	173857-001	Soil	All Pesticides	ND	DUP080504A	173857-002	ND	NA
BB3EX108[0.5]	173857-001	Soil	All PCBs	ND	DUP080504A	173857-002	ND	NA
BB3EX108[0.5]	173857-001	Soil	All Herbicides	ND	DUP080504A	173857-002	ND	NA
BB3EX108[0.5]	173857-001	Soil	Arsenic	2.1	DUP080504A	173857-002	2.5	-17%
BB3EX108[0.5]	173857-001	Soil	Barium	9.6	DUP080504A	173857-002	9.8	-2.1%
BB3EX108[0.5]	173857-001	Soil	Beryllium	0.084	DUP080504A	173857-002	0.11	-27%
BB3EX108[0.5]	173857-001	Soil	Chromium	25	DUP080504A	173857-002	32	-25%
BB3EX108[0.5]	173857-001	Soil	Cobalt	3.5	DUP080504A	173857-002	4.8	-31%
BB3EX108[0.5]	173857-001	Soil	Copper	2.3	DUP080504A	173857-002	3.1	-30%
BB3EX108[0.5]	173857-001	Soil	Lead	1.4	DUP080504A	173857-002	1.7	-19%
BB3EX108[0.5]	173857-001	Soil	Nickel	15	DUP080504A	173857-002	20	-29%
BB3EX108[0.5]	173857-001	Soil	Vanadium	20	DUP080504A	173857-002	27	-30%
BB3EX108[0.5]	173857-001	Soil	Zinc	11	DUP080504A	173857-002	14	-24%
BB3EX108[0.5]	173857-001	Soil	All other metals	ND	DUP080504A	173857-002	ND	NA
BB3EX120[0.5]	174320-004	Soil	4,4'-DDD	5.7	DUP083004A	174320-005	ND< 3.4	NC
BB3EX120[0.5]	174320-004	Soil	4,4'-DDT	11	DUP083004A	174320-005	4.8	< +/- 2X RL
BB3EX120[0.5]	174320-004	Soil	gamma-Chlordane	1.1	DUP083004A	174320-005	ND< 1.8	NC
BB3EX120[0.5]	174320-004	Soil	PCB-1248	180	DUP083004A	174320-005	110	48%
BB3EX120[0.5]	174320-004	Soil	Arsenic	2.7	DUP083004A	174320-005	2.8	-3.6%
BB3EX120[0.5]	174320-004	Soil	Barium	14	DUP083004A	174320-005	18	-25%
BB3EX120[0.5]	174320-004	Soil	Beryllium	0.21	DUP083004A	174320-005	0.22	-4.7%
BB3EX120[0.5]	174320-004	Soil	Chromium	47	DUP083004A	174320-005	51	-8.2%

Table 3
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Baker Beach 3 and 4
The Presidio of San Francisco, CA

Original Sample ID	Lab ID	Matrix	Compound	Original Results	Duplicate Sample ID	Lab ID	Duplicate Results	RPD
BB3EX120[0.5]	174320-004	Soil	Cobalt	5.2	DUP083004A	174320-005	5.5	-5.6%
BB3EX120[0.5]	174320-004	Soil	Copper	4.3	DUP083004A	174320-005	4.3	0.0%
BB3EX120[0.5]	174320-004	Soil	Lead	20	DUP083004A	174320-005	8.9	77%
BB3EX120[0.5]	174320-004	Soil	Nickel	22	DUP083004A	174320-005	24	-8.7%
BB3EX120[0.5]	174320-004	Soil	Vanadium	45	DUP083004A	174320-005	49	-8.5%
BB3EX120[0.5]	174320-004	Soil	Zinc	71	DUP083004A	174320-005	30	**81%**
BB3EX131[0.5]	175037-004	Soil	All Pesticides	ND	DUP100104A	175037-005	ND	NA
BB3EX131[0.5]	175037-004	Soil	All PCBs	ND	DUP100104A	175037-005	ND	NA
BB3EX131[0.5]	175037-004	Soil	Arsenic	2.7	DUP100104A	175037-005	2.6	3.8%
BB3EX131[0.5]	175037-004	Soil	Barium	8.7	DUP100104A	175037-005	9.4	-7.7%
BB3EX131[0.5]	175037-004	Soil	Beryllium	0.13	DUP100104A	175037-005	0.14	-7.4%
BB3EX131[0.5]	175037-004	Soil	Chromium	41	DUP100104A	175037-005	35	16%
BB3EX131[0.5]	175037-004	Soil	Cobalt	4.9	DUP100104A	175037-005	4.4	11%
BB3EX131[0.5]	175037-004	Soil	Copper	2.9	DUP100104A	175037-005	2.9	0.0%
BB3EX131[0.5]	175037-004	Soil	Iron	12000	DUP100104A	175037-005	11000	8.7%
BB3EX131[0.5]	175037-004	Soil	Lead	1.3	DUP100104A	175037-005	1.3	0.0%
BB3EX131[0.5]	175037-004	Soil	Manganese	130	DUP100104A	175037-005	120	8.0%
BB3EX131[0.5]	175037-004	Soil	Nickel	22	DUP100104A	175037-005	21	4.7%
BB3EX131[0.5]	175037-004	Soil	Selenium	0.31	DUP100104A	175037-005	0.43	-32%
BB3EX131[0.5]	175037-004	Soil	Vanadium	32	DUP100104A	175037-005	28	13%
BB3EX131[0.5]	175037-004	Soil	Zinc	14	DUP100104A	175037-005	13	7.4%
BB3EX131[0.5]	175037-004	Soil	All other metals	ND	DUP100104A	175037-005	ND	NA
BB4EX100[0.5]	175141-001	Soil	All VOCs	ND	DUP100704A	175141-009	ND	NA
BB4EX100[0.5]	175141-001	Soil	All SVOCs	ND	DUP100704A	175141-009	ND	NA
BB4EX100[0.5]	175141-001	Soil	Diesel	2.1	DUP100704A	175141-009	ND< 1.0	NC
BB4EX100[0.5]	175141-001	Soil	Motor Oil	7.1	DUP100704A	175141-009	ND< 5.1	NC

Table 3
Summary of Field Duplicates
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Original Sample ID	Lab ID	Matrix	Compound	Original Results	Duplicate Sample ID	Lab ID	Duplicate Results	RPD
BB4EX100[0.5]	175141-001	Soil	All Pesticides	ND	DUP100704A	175141-009	ND	NA
BB4EX100[0.5]	175141-001	Soil	All PCBs	ND	DUP100704A	175141-009	ND	NA
BB4EX100[0.5]	175141-001	Soil	All Herbicides	ND	DUP100704A	175141-009	ND	NA
BB4EX100[0.5]	175141-001	Soil	Arsenic	3	DUP100704A	175141-009	3.1	-3.3%
BB4EX100[0.5]	175141-001	Soil	Barium	11	DUP100704A	175141-009	12	-8.7%
BB4EX100[0.5]	175141-001	Soil	Beryllium	0.13	DUP100704A	175141-009	0.14	-7.4%
BB4EX100[0.5]	175141-001	Soil	Cadmium	0.78	DUP100704A	175141-009	0.68	14%
BB4EX100[0.5]	175141-001	Soil	Chromium	51	DUP100704A	175141-009	50	2.0%
BB4EX100[0.5]	175141-001	Soil	Cobalt	5.3	DUP100704A	175141-009	5.2	1.9%
BB4EX100[0.5]	175141-001	Soil	Copper	3.7	DUP100704A	175141-009	3.2	14%
BB4EX100[0.5]	175141-001	Soil	Iron	14000	DUP100704A	175141-009	13000	7.4%
BB4EX100[0.5]	175141-001	Soil	Lead	2.5	DUP100704A	175141-009	2.2	13%
BB4EX100[0.5]	175141-001	Soil	Manganese	150	DUP100704A	175141-009	140	6.9%
BB4EX100[0.5]	175141-001	Soil	Nickel	22	DUP100704A	175141-009	23	-4.4%
BB4EX100[0.5]	175141-001	Soil	Vanadium	44	DUP100704A	175141-009	39	12%
BB4EX100[0.5]	175141-001	Soil	Zinc	20	DUP100704A	175141-009	19	5.1%
BB4EX100[0.5]	175141-001	Soil	All other metals	ND	DUP100704A	175141-009	ND	NA
BB3EX143[0.5]	175836-003	Soil	All Pesticides	ND	DUP110504A	175836-004	ND	NA
BB3EX143[0.5]	175836-003	Soil	All PCBs	ND	DUP110504A	175836-004	ND	NA
BB3EX143[0.5]	175836-003	Soil	Arsenic	2.9	DUP110504A	175836-004	3	-3.4%
BB3EX143[0.5]	175836-003	Soil	Barium	57	DUP110504A	175836-004	26	**75%**
BB3EX143[0.5]	175836-003	Soil	Beryllium	0.21	DUP110504A	175836-004	0.23	-9.1%
BB3EX143[0.5]	175836-003	Soil	Cadmium	0.29	DUP110504A	175836-004	ND< 0.28	NC
BB3EX143[0.5]	175836-003	Soil	Chromium	35	DUP110504A	175836-004	38	-8.2%
BB3EX143[0.5]	175836-003	Soil	Cobalt	5.1	DUP110504A	175836-004	5.1	0.0%
BB3EX143[0.5]	175836-003	Soil	Copper	5	DUP110504A	175836-004	4.4	13%

Table 3
Summary of Field Duplicates
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Original Sample ID	Lab ID	Matrix	Compound	Original Results	Duplicate Sample ID	Lab ID	Duplicate Results	RPD
BB3EX143[0.5]	175836-003	Soil	Iron	14000	DUP110504A	175836-004	13000	7.4%
BB3EX143[0.5]	175836-003	Soil	Lead	2.3	DUP110504A	175836-004	5	**-74%**
BB3EX143[0.5]	175836-003	Soil	Manganese	190	DUP110504A	175836-004	170	11%
BB3EX143[0.5]	175836-003	Soil	Nickel	19	DUP110504A	175836-004	21	-10%
BB3EX143[0.5]	175836-003	Soil	Vanadium	38	DUP110504A	175836-004	39	-2.6%
BB3EX143[0.5]	175836-003	Soil	Zinc	17	DUP110504A	175836-004	20	-16%
BB3EX143[0.5]	175836-003	Soil	All other metals	ND	DUP110504A	175836-004	ND	NA
BB3EX150[2.5]	176210-009	Soil	All Pesticides	ND	DUP112204A	176210-010	ND	NA
BB3EX150[2.5]	176210-009	Soil	All PCBs	ND	DUP112204A	176210-010	ND	NA
BB3EX150[2.5]	176210-009	Soil	Arsenic	2.7	DUP112204A	176210-010	3.3	-20%
BB3EX150[2.5]	176210-009	Soil	Barium	30	DUP112204A	176210-010	23	26%
BB3EX150[2.5]	176210-009	Soil	Beryllium	0.16	DUP112204A	176210-010	0.15	6.5%
BB3EX150[2.5]	176210-009	Soil	Cadmium	0.31	DUP112204A	176210-010	ND< 0.24	NC
BB3EX150[2.5]	176210-009	Soil	Chromium	43	DUP112204A	176210-010	33	26%
BB3EX150[2.5]	176210-009	Soil	Cobalt	6.4	DUP112204A	176210-010	5.4	17%
BB3EX150[2.5]	176210-009	Soil	Copper	8	DUP112204A	176210-010	5	46%
BB3EX150[2.5]	176210-009	Soil	Iron	15000	DUP112204A	176210-010	14000	6.9%
BB3EX150[2.5]	176210-009	Soil	Lead	5.3	DUP112204A	176210-010	3	**55%**
BB3EX150[2.5]	176210-009	Soil	Manganese	200	DUP112204A	176210-010	170	16%
BB3EX150[2.5]	176210-009	Soil	Nickel	25	DUP112204A	176210-010	21	17%
BB3EX150[2.5]	176210-009	Soil	Vanadium	37	DUP112204A	176210-010	34	8.5%
BB3EX150[2.5]	176210-009	Soil	Zinc	20	DUP112204A	176210-010	18	11%
BB3EX150[2.5]	176210-009	Soil	All other metals	ND	DUP112204A	176210-010	ND	NA
BB3EX154[0.5]	176248-001	Soil	All Pesticides	ND	DUP112304A	176248-002	ND	NA
BB3EX154[0.5]	176248-001	Soil	All PCBs	ND	DUP112304A	176248-002	ND	NA
BB3EX154[0.5]	176248-001	Soil	Arsenic	3	DUP112304A	176248-002	2.8	6.9%

Table 3
Summary of Field Duplicates
Baker Beach 3 and 4
The Presidio of San Francisco, CA

Original Sample ID	Lab ID	Matrix	Compound	Original Results	Duplicate Sample ID	Lab ID	Duplicate Results	RPD
BB3EX154[0.5]	176248-001	Soil	Barium	17	DUP112304A	176248-002	21	-21%
BB3EX154[0.5]	176248-001	Soil	Beryllium	0.11	DUP112304A	176248-002	0.097	13%
BB3EX154[0.5]	176248-001	Soil	Cadmium	0.25	DUP112304A	176248-002	0.25	0.0%
BB3EX154[0.5]	176248-001	Soil	Chromium	33	DUP112304A	176248-002	30	9.5%
BB3EX154[0.5]	176248-001	Soil	Cobalt	4.9	DUP112304A	176248-002	4.8	2.1%
BB3EX154[0.5]	176248-001	Soil	Copper	4.5	DUP112304A	176248-002	5	-11%
BB3EX154[0.5]	176248-001	Soil	Iron	11000	DUP112304A	176248-002	10000	9.5%
BB3EX154[0.5]	176248-001	Soil	Lead	6	DUP112304A	176248-002	6.8	-13%
BB3EX154[0.5]	176248-001	Soil	Manganese	140	DUP112304A	176248-002	170	-19%
BB3EX154[0.5]	176248-001	Soil	Nickel	19	DUP112304A	176248-002	19	0.0%
BB3EX154[0.5]	176248-001	Soil	Vanadium	30	DUP112304A	176248-002	29	3.4%
BB3EX154[0.5]	176248-001	Soil	Zinc	17	DUP112304A	176248-002	17	0.0%
BB3EX154[0.5]	176248-001	Soil	All other metals	ND	DUP112304A	176248-002	ND	NA
BB3EX156[0.5]	176702-001	Soil	All Pesticides	ND	DUP121604A	176702-002	ND	NA
BB3EX156[0.5]	176702-001	Soil	All PCBs	ND	DUP121604A	176702-002	ND	NA

NC: Not calculated. The absolute difference between the sample result and the duplicate sample result is less than the reporting limit.
N/A: Not analyzed
NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

TO: Sigrida Reinis, Treadwell & Rollo, Inc. January 31, 2005

FROM: Donna Breaux, DataVal, Inc. T&R Project No. 2893.04.51

QUALITY CONTROL SUMMARY REPORT FOR THE BAKER BEACH GROUNDWATER SAMPLING EVENT, THE PRESIDIO OF SAN FRANCISCO, CA

LABORATORY: Curtis & Tompkins, Ltd., Berkeley, CA

SAMPLING DATES: December 14, 16 and 17, 2004

Data validation of Level III laboratory data packages was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, July 2002.

The data were reviewed for holding times, blanks, GC/MS tunes, initial calibrations, continuing calibration verification (CCV) standards, internal standards, laboratory duplicate samples, laboratory control samples (LCS), surrogate recoveries, matrix spikes (MS), matrix spike duplicates (MSD), ICP interference check standards and ICP serial dilutions.

The following paragraphs highlight the essential findings of the data validation effort:

I. <u>Volatile Organic Compounds by GC/MS (8260B)</u>

Overall, the data are usable as reported. Qualification was not required.

A. <u>Reporting Limits</u>

The laboratory reporting limits for VOCs in water matrix samples met the project required reporting limits, with the following exceptions:

1. The laboratory reporting limits did not meet the project required reporting limits listed in Table 2-6.8-1 of the QAPP for bromoform, bromomethane, chloroethane, and chloromethane. The laboratory reported 1.0 ug/L for these compounds. The project required reporting limit was 0.5 ug/L.

B. <u>Holding Times</u>

Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in any trip blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
A matrix spike and matrix spike duplicate were not analyzed with the project samples for this analysis.

G. GC/MS Tunes
All QC criteria were met for the GC/MS tunes associated with the project samples.

H. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

I. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

J. Internal Standards
Internal standard areas and retention times met QC acceptance criteria for all project samples.

II. Total Petroleum Hydrocarbons - Gasoline (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for gasoline in water matrix samples met the project required reporting limit.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples. Samples with non-detected results and high failing surrogate recoveries did not require qualification, and are not noted in this report.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

III. Total Petroleum Hydrocarbons – Diesel/Motor Oil (8015B)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limit for diesel and motor oil in water matrix samples met the project required reporting limit.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Surrogate Recoveries
Surrogate spike recoveries met QC acceptance criteria for all project samples.

D. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

E. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

F. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

G. Initial Calibration
Initial calibration criteria were met for all calibration standards associated with the project samples.

H. Continuing Calibration
Continuing calibration criteria were met for all continuing calibration standards associated with the project samples.

IV. Total and Dissolved Metals (6020)

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section G.

A. Reporting Limits
The laboratory reporting limits met the project required reporting limits for metals in water matrix samples listed in Table 2-5.21-1 of the QAPP, with the following exception:

1. The result for chromium in sample BB3PZ101 (176728-001) was reported as non-detected at a ten-fold dilution due to a failing continuing calibration standard in the undiluted run.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exceptions:

1. The percent recoveries for calcium, magnesium and sodium failed the 75%-125% project acceptance criteria in QC samples LF4GW103 (176662-001) MS/MSD. The amounts of calcium, magnesium and sodium present in the parent sample were greater than four times the amounts spiked, and qualification was not required. (QC batch 97537)
2. The percent recoveries for calcium, magnesium, manganese and sodium failed the 75%-125% project acceptance criteria in QC samples 1349MW102 (176726-004) MS/MSD. The amounts of calcium, magnesium, manganese and sodium present in the parent sample were greater than four times the amounts spiked, and qualification was not required. (QC batch 97646)

F. ICP Interference Check Standards
All QC criteria were met for the ICP interference check standards associated with the project samples.

G. ICP Serial Dilution
All QC criteria were met for the ICP serial dilutions associated with the project samples, with the following exception:
1. The percent difference for calcium failed the 10% project acceptance criteria in QC sample LF4GW103 (176662-001) at 14%. The detected result for calcium in the associated sample was qualified as estimated (J).

See Table 2 of this report for a summary of qualifications due to serial dilution percent difference failure.

H. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

V. General Chemistry (Alkalinity by 310.1, Anions by 300.0 and TDS by 160.1)

Overall, the data are usable as reported. Qualification was not required.

A. Reporting Limits
The laboratory reporting limits for alkalinity, anions and total dissolved solids met the project required reporting limits.

B. Holding Times
Technical holding time criteria were met for all project samples.

C. Blanks
Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples
All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

F. Laboratory Duplicate Samples
All QC criteria were met for the laboratory duplicate samples associated with the project samples.

G. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

SUMMARY

The attached Table 1 lists the samples and analyses included in the data validation effort. The attached Table 2 summarizes the data qualifications required for the project samples included in the data packages.

USABILITY

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory validation, all other results are considered valid and usable for all purposes.

VALIDATION QUALIFIERS IDENTIFICATION

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October, 1999.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. *A minus sign (-) indicates the numerical value has a low bias. A plus sign (+) indicates the numerical value has a high bias.*

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

TO: Joshua Graber, Treadwell & Rollo, Inc. March 4, 2005

FROM: Donna Breaux, DataVal, Inc. T&R Project No. 2893.04.51

ADDENDUM TO REPORT DATED JANUARY 31, 2005

QUALITY CONTROL SUMMARY REPORT FOR THE BAKER BEACH GROUNDWATER SAMPLING EVENT, THE PRESIDIO OF SAN FRANCISCO, CA

LABORATORY: Curtis & Tompkins, Ltd., Berkeley, CA

SAMPLING DATES: December 16 and 17, 2004

Data validation of Level III laboratory data was performed according to the project-specific guidelines. These guidelines were outlined in the Presidio-wide Quality Assurance Project Plan, Sampling and Analysis Plan, April, 2001; and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, July 2002.

The data were reviewed for holding times, blanks, initial calibrations, continuing calibration verification (CCV) standards, laboratory control samples (LCS), matrix spikes (MS), matrix spike duplicates (MSD), ICP interference check standards and ICP serial dilutions.

This report reflects the data validation of samples BB3PZ101 and BB3SW102 re-analyzed for dissolved metals on March 3, 2005.

The following paragraphs highlight the essential findings of the data validation effort:

I. <u>Dissolved Metals (6020)</u>

Overall, the data are usable as reported. Qualification was not required.

A. <u>Reporting Limits</u>

The laboratory reporting limits met the project required reporting limits for metals in water matrix samples listed in Table 2-5.21-1 of the QAPP.

B. <u>Holding Times</u>

Technical holding time criteria were met for all project samples.

C. <u>Blanks</u>

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. <u>Laboratory Control Samples</u>

All QC criteria were met for the laboratory control samples associated with the project samples.

E. Matrix Spike/Matrix Spike Duplicate
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:
1. The percent recoveries for sodium and magnesium were outside the 75%-125% project acceptance criteria in QC samples BB3SW102 MS/MSD. The amounts of these metals present in the parent sample were greater than four times the amounts spiked, and qualification was not required.

F. ICP Interference Check Standards
All QC criteria were met for the ICP interference check standards associated with the project samples.

G. ICP Serial Dilution
All QC criteria were met for the ICP serial dilutions associated with the project samples.

H. Initial and Continuing Calibrations
All initial and continuing calibration standards associated with the project samples met QC acceptance criteria.

SUMMARY
Qualification was not required for the re-analyzed results of samples BB3PZ101 and BB3SW102.

USABILITY
The quality control criteria were reviewed. All criteria were met and the data are considered acceptable. Based upon the cursory validation, all results are considered valid and usable for all purposes.

APPENDIX C
Construction Daily Report Forms

Treadwell&Rollo

FIELD REPORT NO. _01____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	6/28/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Begin Project

- Site kick off meeting. Lew Stringer and Johanna, Tony discuss natural resource sensitivity. What plants and animal that are local. Jim Schiller (Trust) present UXO information talk. The history of UXOs at the Presidio, what to do if found, etc. Jenn discusses sensitivity to historical features and the identification and preservation of the historical Battery Crosby Road. All PerfEx crew member onsite.
- Surveyors out to stake the sample grid., a 50 ft survey grid.
- PerfEx setting the perimeter construction snow fence.

Stockpiles

Class I – 0 yds
Class II – 0
Potential Class II –0
Concrete – 0 yds
Greenwaste – 0 yds
Metal – 0 yds

Loads Out

Class I Trucks – 0
Total Trucks – 0
Total Est. yds – 0
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D5, water truck, sweeper

Crew 1030-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _02____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	6/29/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	overcast
Reviewed by:	Date:		

Description of Work: Prepare site for work

- Mob equipment to site.

Stockpiles

Class I – 0 yds
Class II – 0
Potential Class II –0
Concrete – 0 yds
Greenwaste – 0 yds
Metal – 0 yds

Loads Out

Class I Trucks – 0
Total Trucks – 0
Total Est. yds – 0
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D5, water truck, sweeper

Crew 1030-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _03____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	6/30/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	clear
Reviewed by:	Date:		

Description of Work: Prepare site for work

- Excavate and stockpile material on bench. Create a flat turn around area on bench, Stockpile as Class I material. PerfEx using personal air monitoring

- Use excavator to pot hole three locations to collect samples of "old" chert road to see if it is salvageable for reuse. Chert surface is approx. 0.5 and 1.5 feet below truck turn around surface. Collect a chert sample and underlying native sand sample from each of three pot hole (BB3SS100, BB3SS101, and BB3SS102) chert samples from 1, 1.5, and 1.5 ft, respectively. Sand samples from 2, 2.5, and 2.5 ft, respectively. The samples are analyzed for BB3 COCs (metals, PCBs, and pesticides, 48 hr TAT.

Stockpiles

Class I – 500 yds
Class II – 0
Potential Class II –0
Concrete – 0 yds
Greenwaste – 100 yds
Metal – 0 yds

Loads Out

Class I Trucks – 0
Total Trucks – 0
Total Est. yds – 0
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0700-1530

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _04____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/01/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Excavate and segregate wood, stumps, and concrete

- Excavate and stockpile in separate areas, soil/greenwaste, tree stumps, and concrete. PerfEx using personal air monitoring
- Cut in haul road on slope for the articulated truck to move up/down slope.
- Discuss with PerfEx distribution of waste (Class I vrs Class II) based on test pit data, not all is Class I waste..
- Visitor: Johanna.

Stockpiles

Class I – 500 yds
Class II – 0
Potential Class II –1000
Concrete – 100 yds
Greenwaste – 500 yds
Metal – 0 yds

Loads Out

Class I Trucks – 0
Total Trucks – 0
Total Est. yds – 0
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0630-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _05____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 7/02/04, Friday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather: foggy
Reviewed by: Date:

Description of Work: Excavate and segregate wood, stumps, and concrete

- Excavate and stockpile in separate areas, soil/greenwaste, tree stumps, and concrete. PerfEx using personal air monitoring
- Cut in haul road on slope for the articulated truck to move up/down slope.
- Construct PVC water line to be used for dust control.
- Visitor: Lew, Leo Barker (NPS archeology).

Stockpiles

Class I – 500 yds
Class II – 0
Potential Class II –1000
Concrete – 100 yds
Greenwaste – 500 yds
Metal – 0 yds

Loads Out

Class I Trucks – 0
Total Trucks – 0
Total Est. yds – 0
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0630-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _06____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/06/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Import A/B and build up access ramp..

- Import 6 transfer truck loads of A/B for the access ramp construction. The A/B is imported from Syar's Lake Herman quarry. A geofabric layer was placed down and the A/B on top and bladed and rolled smooth. Access ramp approximately 70 feet long.

Stockpiles

Class I – 500 yds
Class II – 0
Potential Class II –1000
Concrete – 100 yds
Greenwaste – 500 yds
Metal – 0 yds

Loads Out

Class I Trucks – 0
Total Trucks – 0
Total Est. yds – 0
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0630-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _07____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/07/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Excavate and segregate fill from upper slope.

- Excavate fill from western slope, bring slope to approx 1:1. Stockpile material in 2 separate pile, approx 1,000 yds stockpile contains a high 20-30 percent concrete rubble.
- Segregate larger concrete (larger that 3-ft) in to separate pile.
- Mob in link-belt excavator and D7, D5 not big enough.
- Move and reconstruct PVC water line along southern flank of ravine. Water line will be used for dust control.
- Visitor Lew, Jim Ponton (RWQCB)

Stockpiles

Class I – 500 yds
Class II – 0
Potential Class II –1000
Concrete – 100 yds
Greenwaste – 500 yds
Metal – 0 yds

Loads Out

Class I Trucks – 0
Total Trucks – 0
Total Est. yds – 0
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0700-1530

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _08____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/08/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	sunny-windy
Reviewed by:	Date:		

Description of Work: Practice load out Class I waste.

- Load out 1 truck for Class I disposal. A practice load out. Had to make minor adjustments to access ramp. First truck load out.

Stockpiles

Class I – 500 yds
Class II – 0
Potential Class II –1000
Concrete – 150 yds
Greenwaste – 500 yds
Metal – 10 yds

Loads Out

Class I Trucks – 1
Total Trucks – 1
Total Est. yds – 18
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0630-0900

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _09____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/09/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	sunny-windy
Reviewed by:	Date:		

Description of Work: Load out Class I waste, rebuild stockpile.

- Load out 18 trucks for Class I disposal.
- Rebuild Class I stockpile, excavate from mid-slope.
- Place delineators on shoulder of north bound Lincoln Blvd to stage trucks.

Stockpiles	Loads Out
Class I – 500 yds	Class I Trucks – 18
Class II – 0	Total Trucks – 19
Potential Class II –1000	Total Est. yds – 342
Concrete – 150 yds	Class II – 0
Greenwaste – 500 yds	Greenwaste – 0 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _10____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/12/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy-clearing
Reviewed by:	Date:		

Description of Work: Load out Class I waste, rebuild stockpile.

- Load out 18 trucks for Class I disposal.
- Rebuild Class I stockpile, excavate from upper-slope.
- Visitors: Lew and Johanna..

Stockpiles	Loads Out
Class I – 500 yds	Class I Trucks – 18
Class II – 0	Total Trucks – 37
Potential Class II –1000	Total Est. yds – 666
Concrete – 150 yds	Class II – 0
Greenwaste – 500 yds	Greenwaste – 0 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _11____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/13/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Load out Class I waste, rebuild stockpile.

- Load out 18 trucks for Class I disposal.
- Rebuild Class I stockpile, excavate from upper-slope.
- Weekly construction and data meetings. Chert Road profile samples (BB3SS100[1], BB3SS101[1.5], and BB3SS102[1.5] appear to document that the chert is salvageable for reuse. Will plan to excavate to leave the road in place and save as much chert as possible..

Stockpiles

Class I – 1500 yds
Class II – 0
Potential Class II – 0
Concrete – 175 yds
Greenwaste – 500 yds
Metal – 10 yds

Loads Out

Class I Trucks – 18
Total Trucks – 56
Total Est. yds – 1008
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _12____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/14/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	sunny
Reviewed by:	Date:		

Description of Work: Load out Class I waste, rebuild stockpile.

- Load out 20 trucks for Class I disposal.
- Rebuild Class I stockpile, excavate from upper-slope.
- Paul Martin moves drums of soil cuttings from BB3PZ1A and BB3PZ1B installation from Central Magazine to site, add to Class stockpile.

Stockpiles

Class I – 1500 yds
Class II – 0
Potential Class II – 0
Concrete – 175 yds
Greenwaste – 500 yds
Metal – 10 yds

Loads Out

Class I Trucks – 20
Total Trucks – 77
Total Est. yds – 1386
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _13____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 7/15/04, Thursday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather: foggy
Reviewed by: Date:

Description of Work: Load out Class I waste, rebuild stockpile.

- Load out 22 trucks for Class I disposal.
- Rebuild Class I stockpile, excavate from upper-slope. Shut down early, out of space.
- Excavate potential Class II material, approx 100 yds, stockpile separately

Stockpiles

Class I – 1500 yds
Class II – 0
Potential Class II – 100
Concrete – 200 yds
Greenwaste – 440 yds
Metal – 10 yds

Loads Out

Class I Trucks – 22
Total Trucks – 97
Total Est. yds – 1762
Class II – 0
Greenwaste – 0 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0600-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _14____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/16/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Load out Class I waste, rebuild stockpile.

- Load out 19 trucks for Class I disposal.
- Load out 3 Highside trucks with Greenwaste
- Rebuild Class I stockpile, excavate from upper-slope. Shut down early, out of space.
- PerfEx collects waste characterization samples from potential Class II stockpile (100 yds) excavated late yesterday.
- Chradhary Surveyors monitor Lincoln Blvd.

PerfEx wants to mob in long reach excavator on Tuesday to begin Phase II area, Jenn said no, too early to begin phase II, only approx 3700 yds excavated so far, ~25% of estimated total.

An unknown truck, possibly Frank Bishop, hit and bent southern end (passenger side) of the guardrail while leaving the site. Guradrail section and post will have to be replaced. Informed JenniferYata.

Stockpiles

Class I – 1500 yds
Class II – 0
Potential Class II – 100
Concrete – 200 yds
Greenwaste – 440 yds
Metal – 10 yds

Loads Out

Class I Trucks – 19
Total Trucks – 116
Total Est. yds – 2088
Class II – 0
Greenwaste – 60 yds
Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _15____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/17/04, Saturday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 8 trucks for Class I disposal.
- Load out 1 highside truck with greenwaste

T&R not onsite, Jennifer Yata observing.

Stockpiles	Loads Out
Class I – 1350 yds	Class I Trucks – 8
Class II – 0	Total Trucks – 124
Potential Class II – 100	Total Est. yds – 2232
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0600-0830

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _16____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/19/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 32 trucks for Class I disposal.
- Rebuild Class I stockpile from excavating mid-upper slope.

STLC results for potential Class II material exceed 5 mg/kg, material is Class I.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 32
Class II – 0	Total Trucks – 156
Potential Class II – 0	Total Est. yds – 2808
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _17____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/20/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 38 trucks for Class I disposal.
- Rebuild Class I stockpile from excavating mid-upper slope.

Field meeting with PerfEx, Jennifer Yata, Wendell Minshew to discuss required excavating from Phase I area to proceed to Phase II. Upper slope area needs to be reduced by several feet to reduce load before proceeding to Phase II area. Crew excavates upper area.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 38
Class II – 0	Total Trucks – 194
Potential Class II – 0	Total Est. yds – 3492
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _18____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/21/04, Wednsday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 39 trucks for Class I disposal.
- Rebuild Class I stockpile from excavating upper slope.

PerfEx believes they have excavated sufficient material to proceed to Phase II, Mob in long reach excavated for that purpose. Jennifer Yata receives e-mail fron PerfEx after 1600 stating they will begin Phase II excavation 1st thing in the morning. Jennifer Yata returns e-mail stating not to begin Phase II work.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 39
Class II – 0	Total Trucks – 233
Potential Class II – 0	Total Est. yds –4194
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _19____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/22/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	foggy
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 33 trucks for Class I disposal.
- Rebuild Class I stockpile from excavating mid slope.

PerfEx begins Phase II 0630. Jennifer Yata arrives 0700 haults Phase II excavation. 0900 site meeting with Frank Cannizzaro (PerfEX) discuss Phase II concerns of DTSC. Further excavation of mid and upper slope must be completed before Phase II excavation. Mid and upper slope must be lowered by a minimum of 3 feet before Phase II can be begun. Jennifer Yata will arrange to have DTSC observe site early next week to get concurrence that Phase II can begin.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 33
Class II – 0	Total Trucks – 266
Potential Class II – 0	Total Est. yds – 4788
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _20____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/23/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 31 trucks for Class I disposal.
- Rebuild Class I stockpile from excavating mid slope.
- Import 3 transfer trucks of A/B to be placed as additional ramp material.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 31
Class II – 0	Total Trucks – 297
Potential Class II – 0	Total Est. yds – 5346
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _21____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/24/04, Saturday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 21 trucks for Class I disposal.

T&R not onsite, Jennifer Yata observing.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 21
Class II – 0	Total Trucks – 318
Potential Class II – 0	Total Est. yds – 5724
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-0900

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _22____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/26/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 31 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid-upper slope.

Trust discussions with DTSC concerning Phase II excavation

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 31
Class II – 0	Total Trucks – 349
Potential Class II – 0	Total Est. yds – 6282
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _23____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 7/27/04, Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I waste.

- Load out 36 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid-upper slope.

Trust discussions with DTSC concerning Phase II excavation. 1630, Jennifer Yata gives PerfEx verbals to begin Phase II

Construction meeting

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 36
Class II – 0	Total Trucks – 385
Potential Class II – 0	Total Est. yds – 6930
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _24____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/28/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, begin phase II excavation.

- Load out 32 trucks for Class I disposal.
- Build stockpile, excavate from Phase II area at toe of slope, separate stockpile until waste characterization samples come back.
- Erosion control (wattles) delivered to site, forklift rental onsite to offload.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 32
Class II – 0	Total Trucks – 417
Potential Class II – 0	Total Est. yds – 7506
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _25____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/29/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 35 trucks for Class I disposal.
- Rebuild stockpile, excavate from Phase II area at toe of slope
- Waste characterization samples come back as Class I for Phase II area material
- Forklift demob'd.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 35
Class II – 0	Total Trucks – 417
Potential Class II – 0	Total Est. yds – 8136
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _26____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	7/30/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 35 trucks for Class I disposal.
- Rebuild stockpile, excavate last from Phase II area at toe of slope
- T&R collect confirmation soil sample BB3EX100[0.5], run metals PCBs, pesticides, 24hr TAT, sample dune sand, located 48 ft E, 10 ft S of survey lath #1147.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 35
Class II – 0	Total Trucks – 487
Potential Class II – 0	Total Est. yds – 8766
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _27____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/02/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, begin confirmation sampling.

- Load out 26 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from lower slope
- RW Davis surveyor relocate some grids and sample locations

T&R collect grid confirmation soil sample BB3EX101[0.5], run metals PCBs, pesticides, 72hr TAT, sample Colma, located at Grid C1.

T&R collect grid confirmation soil sample BB3EX102[0.5], run metals PCBs, pesticides, 72hr TAT, sample dune sand, located at Grid B2

T&R collect grid confirmation soil sample BB3EX103[0.5], run metals PCBs, pesticides, 72hr TAT, sample dune sand, located at Grid C2.

T&R collect grid confirmation soil sample BB3EX104[0.5], run metals PCBs, pesticides, 72hr TAT, sample dune sand, located at Grid D1

T&R collect perimeter confirmation soil sample BB3EX105[0.5], run metals PCBs, pesticides, 72hr TAT, sample dune sand, located at mid point between Grid C1 and B2.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 26
Class II – 0	Total Trucks – 513
Potential Class II – 0	Total Est. yds – 9234
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _28____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 8/03/04, Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I waste.

- Load out 33 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from lower slope

1015-1045: DTSC Bob Boggs, Ram onsite with Brian U and Jennifer, discuss excavation progress, No slope stability concerns observed.

Construction meeting.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 33
Class II – 0	Total Trucks – 546
Potential Class II – 0	Total Est. yds – 9828
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _29____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/04/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, over excavate BB3EX100.

- Load out 28 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from lower slope
- Results back for BB3EX100, exceeds zinc and PCB, direct over-ex of 75'X75'X1' around location. Stockpile separately

T&R collects confirmation sample BB3EX106[0.5] in dune sand at former BB3EX100, run metals PCBs, pesticides. 24 hr TAT.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 28
Class II – 0	Total Trucks – 574
Potential Class II – 150	Total Est. yds – 10332
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _30____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/05/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, collect waste characterization and confirmation samples.

- Load out 29 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from lower-mid slope
- Collect waste characterization samples from over-ex soil stockpile.

1035-1130 A bent metal sign labeled "Radioactive Material" found in excavated soil stockpile. Hault work, call Trust, Paul Martin and Jennifer Yata. Both come to site check sign. Pual call Jim. Jim arrives and says that the sign is not of concern. Little chance of radioactive material in fill, likely an old sign from vehicle gauge storage closet, no history if radioactive use/storage at the Presidio. Gives crew an overview of historical use of RAD and what to look for that would be of concern to Jim.

1015-EOB long reach down with broken hydraulic line.

T&R collect grid confirmation soil sample BB3EX107[0.5], run metals PCBs, pesticides, 48hr TAT, sample dune sand, located at Grid C3.

T&R collect grid confirmation soil sample BB3EX108[0.5]and DUP080504A, run full suite, 5 day TAT, sample dune sand, located at Grid D3

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 29
Class II – 0	Total Trucks – 603
Potential Class II – 150	Total Est. yds – 10854
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _31____
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/0604, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, collect confirmation samples.

- Load out 31 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from lower-mid slope

Find crushed oily 55-gal drum, no real contents badly crushed, set it aside. Call Jenn, Paul Martin. They check drum, suggest either adding it to the Class I waste stockpile or overpack and dispose of separately. Said wait until Monday.

T&R collect grid confirmation soil sample BB3EX109[0.5], run metals PCBs, pesticides, 24hr TAT, sample dune sand, located at Grid B3.

T&R collect grid confirmation soil sample BB3EX110[0.5], run metals, PCBs, pesticides, 24h TAT, sample dune sand, located at Grid B4

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 31
Class II – 0	Total Trucks – 634
Potential Class II – 150	Total Est. yds – 11412
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _32____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/0904, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 37 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid slope

Crushed oily 55-gal drum added to the Class I waste stockpile for disposal as per Paul Martin.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 37
Class II – 0	Total Trucks – 671
Potential Class II – 150	Total Est. yds – 12078
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _33____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 8/10/04, Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I waste.

- Load out 37 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid slope

Walk and drop paint with Johanna (NPS), and Cliff outlining vegetation area near Battery Crosby that George Ford had agreed to strip for the NPS. This area is outside the proposed limits of work..

Construction meeting.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 39
Class II – 0	Total Trucks – 710
Potential Class II – 150	Total Est. yds – 12780
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _34____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/11/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 43 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid slope

0630-1030 Long reach not operational, mechanic called.

1130 Jenn call, a complaint has been received by DTSC about Dillard Trucking using non-haz licensed drivers, there will be an investigation.

Johanna performing perk tests to investigate hydrophobic conditions of the dune sand.

Stockpiles

Class I – 1500 yds
Class II – 0
Potential Class II – 150
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 43
Total Trucks – 753
Total Est. yds – 13554
Class II – 0
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _35____
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/12/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 48 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid slope

Early morning truck backup. Trucks not paying attention to load time, too many trucks at one time, had trucks backed up along Lincoln Blvd. PerfEx used second flagger on lower Lincoln to direct car traffic using one traffic lane. PerfEx will direct dispatch to have drivers heed load times.

Jenn and Craig Cooper interviewed by DTSC inspector concerning complaint about Dillard Trucking using non-haz licensed drivers.

Damin Raffa (Trust) places coyote information signs on site, discusses coyote sightings and mannerisms with crew.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 48
Class II – 0	Total Trucks – 801
Potential Class II – 150	Total Est. yds – 14418
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _36____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/13/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 42 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid slope

Early morning truck backup. Trucks still not paying attention to load time, too many trucks at one time, had trucks backed up along Lincoln Blvd. Told Cliff, PerfEx no second flagger, no using one traffic lane, send the trucks away and have them return at their scheduled time.

Told Damin Raffa (Trust) one driver (Floyd, BAT Trucking) claims to have seen a deer cross behind his truck this morning (0630) while parked on Bowley Road.

Stockpiles

Class I – 1500 yds
Class II – 0
Potential Class II – 150
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 42
Total Trucks – 843
Total Est. yds – 15174
Class II – 0
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _37____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/16/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 31 trucks for Class I disposal.
- Rebuild stockpile, excavate Class I from mid slope

Surveyors onsite.

Loaded Cummings truck breaks down, Parks back out of the way on the old Battery road, mechanic called.

Stockpiles

Class I – 1500 yds
Class II – 0
Potential Class II – 150
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 31
Total Trucks – 874
Total Est. yds – 15732
Class II – 0
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _38____
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/17/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, Regulatory site walk.

- Load out 28 trucks for Class I disposal.

- Rebuild stockpile, excavate Class I from mid slope

Received a complaint from a bicyclist (Dr Robert Gish, MD)claim he was cut off and had to skid to a halt to avoid a Clearwater truck (#630) coming out of Bowley. Took his name and number and said someone would be contacting him. Talked to the driver, he said he thought that the bicyclist was stopping to give him the right-of-way. Told Cliff, ask Cliff to talk to all drivers and remind them they are in a public park, be careful. Jennifer made the follow up call.

Site meeting walk with Bob Boggs, Brian U, Tony D, Craig C, and Jenn. Show existing sample locations.. Agree that perimeter samples will be collected within 3 ft of the excavation limits. Agree that samples BB3EX100/106 too far in to be perimeter sample need to sample closer to limits. Agree that samples BB3EX103, BB3EX107 will be dual perimeter and grid samples. Agree to Bob's request that a row of samples will be collected down the center of the valley, approximately midway between grid lines C and D. Agree to Bob's request to excavate addional material from gray sand area at bottom. Find old bones, call archeologist, old soup bones.

Construction meeting.

Wendell and Scott Walker walk site observe slope stability, no problems.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 28
Class II – 0	Total Trucks – 902
Potential Class II – 150	Total Est. yds – 16236
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _39____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/18/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, collect confirmation samples.

- Load out 40 trucks for Class I disposal.

- Rebuild stockpile, excavate Class I from mid slope

0730-0830 Long reach down, hydraulic pump trouble. .

T&R collect perimeter confirmation soil sample BB3EX111[0.5], run metals PCBs, pesticides, 48hr TAT, sample dune sand, located southeast of Grid D3.

T&R collect perimeter confirmation soil sample BB3EX112[0.5], run metals PCBs, pesticides, 48hr TAT, sample dune sand, located SW of Grid D3.

T&R collect perimeter confirmation soil sample BB3EX113[0.5], run metals PCBs, pesticides, 48hr TAT, sample dune sand, located SW of Grid D2.

T&R collect perimeter confirmation soil sample BB3EX114[0.5], run metals PCBs, pesticides, 48hr TAT, sample dune sand, located at toe, 29 ft SE of Grid D1.

T&R collect perimeter confirmation soil sample BB3EX115[0.5], run metals PCBs, pesticides, 48hr TAT, sample dune sand, located near mid point between Grid C2/C3 and D2/D3.

T&R collect perimeter confirmation soil sample BB3EX116[0.5], run full suite, 5 day TAT, sample dune sand, located near mid point between Grid C3/C4 and D3/D4.

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 40
Class II – 0	Total Trucks – 942
Potential Class II – 150	Total Est. yds – 16956
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _____

Project: _____ Project No: _____

Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: _____

Field Engineer: _____

Crew 0530-1400

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _40____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/19/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 42 trucks for Class I disposal.

- Rebuild stockpile, excavate Class I from mid slope

Long reach down all day, hydraulic pump trouble. .

Muni bus speed through Bowley not safe. Have tried repeatedly to slow them, not effective. PerfEx complains about safety. Jenn calls Muni to complain. .

Stockpiles	Loads Out
Class I – 1500 yds	Class I Trucks – 42
Class II – 0	Total Trucks – 984
Potential Class II – 150	Total Est. yds – 17712
Concrete – 200 yds	Class II – 0
Greenwaste – 420 yds	Greenwaste – 80 yds
Metal – 10 yds	Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1300

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _41____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/20/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste and Class II waste.

- Load out 33 trucks for Class I disposal.
- Load out 6 trucks for Class II disposal.
- Rebuild stockpile, excavate Class I from mid slope

Long reach down all day, hydraulic pump trouble. .

1400-1500 NPS site meeting. Tony D, Laura C, Johanna, Lew, and Brian O'Neil. George and I attend. NPS people discuss project with Brian O'Neil..

Stockpiles

Class I – 1500 yds
Class II – 150
Potential Class II – 0
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 33
Total Trucks – 1017
Total Est. yds – 18306
Class II Trucks – 6
Total Trucks – 6
Total Est. Yds - 108
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _42____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/23/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste and Class II waste.

- Load out 28 trucks for Class I disposal.
- Load out 2 trucks for Class II disposal.
- Rebuild stockpile, excavate Class I from mid slope

1300-1400 Begin stripping vegetation outside work limits as directed by Johanna, NPS

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 0
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 28
Total Trucks – 1045
Total Est. yds – 18810
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _43____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 8/24/04, Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I waste.

- Load out 36 trucks for Class I disposal.

- Long reach down, 1100 replacement one mob to site, work rest of day to load out broken long reach

Stripping vegetation outside work limits as directed by Johanna, NPS

Construction meeting

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 0
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 36
Total Trucks – 1081
Total Est. yds – 19458
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _44____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 8/25/04, Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I waste.

- Load out 35 trucks for Class I disposal.
- Rebuild Class I stockpile, excavate from mid slope
- Sample tree stumps for waste characterization.
- Stripping vegetation outside work limits as directed by NPS

Construction meeting

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 0
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 35
Total Trucks – 1116
Total Est. yds – 20088
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1400

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _45____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/26/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, over-ex BB3EX111, 115, and 116.

- Load out 30 trucks for Class I disposal.
- Over excavate sample exceedances at BB3EX111, BB3EX115, and BB3EX116, excavate approx. 1.5 ft deep, half the distance to next clean sample. Stockpile soil as potential Class II waste.
- Lew Stringer (NPS) directs the excavation of the trench for the willow mat installation, Crew work overtime excavation willow mat.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 30
Total Trucks – 1146
Total Est. yds – 20628
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1700

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _46____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/27/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 29 trucks for Class I disposal.
- Stockpile soil from over-ex to potential Class II waste.
- NPS beginning to construct willow mat in trench from yesterday.
- RW Davis surveyors shoot grid D3, D4, C3, C4, and existing sample locations.

At the location of former sample BB3EX115, Colma exposed following over-ex. A wet seep is present at the dune sand/ Colma interface.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 29
Total Trucks – 1175
Total Est. yds – 21150
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1700

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _47____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/28/04, Saturday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 11 trucks for Class I disposal.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 11
Total Trucks – 1186
Total Est. yds – 21348
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1700

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _48____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/30/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste, collect confirmation samples.

- Load out 39 trucks for Class I disposal.

- 1 truck breaks down at Bowley, unable to leave trailer or dump load. Towed back to Sac MPE truck yard @ 1300.

Collect Soil Confirmation samples:

BB3EX117[0.5] at over-ex @ BB3EX111[0.5], sand. Metals only
BB3EX118[0.5] at over-ex @ BB3EX115[0.5], Colma, metals, PCBs, pesticides (MS/MSD)
BB3EX119[0.5] at over-ex @ BB3EX116[0.5], sand, SVOCs
BB3EX120[0.5] and DUP083004A at grid D4, sand, metals,PCBs pesticides
BB3EX121[0.5] at grid C4, sand, metals,PCBs,pesticides

Articulated truck called off.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 39
Total Trucks – 1225
Total Est. yds – 22050
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _49____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	8/31/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 37 trucks for Class I disposal.

Data meeting and Construction meeting.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 37
Total Trucks – 1262
Total Est. yds – 22716
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _50____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/01/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 36 trucks for Class I disposal.

Site meeting with Jenn, Ryan S, Paul M, Wendell. Using Trust GPS to locate piezometer BB3EX1A prior to exposing by digging.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 36
Total Trucks – 1298
Total Est. yds – 23364
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _51____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/02/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 37 trucks for Class I disposal.

Excavator used to backfill willow mat area with local dune sand, at direction of NPS.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 37
Total Trucks – 1335
Total Est. yds – 24030
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _52____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/03/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 37 trucks for Class I disposal.

T&R not onsite

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 37
Total Trucks – 1372
Total Est. yds – 24696
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _53____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 9/06/04, Monday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Holiday, no site work.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 37
Total Trucks – 1372
Total Est. yds – 24696
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _54____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/07/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste.

- Load out 18 trucks for Class I disposal.

- Breaking and shaking concrete prior to Class II disposal at Altamont

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 18
Total Trucks – 1390
Total Est. yds – 25020
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete – 0

Equipment 330 excavator, long reach excavator, Excavator with breaker, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _55____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/08/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II waste.

- Load out 16 trucks for Class I disposal.
- Load out 3 trucks concrete for Class II disposal.
- Breaking and shaking concrete prior to Class II disposal at Altamont

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 200 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 16
Total Trucks – 1406
Total Est. yds – 25308
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete, Class II – 3 trucks

Equipment 330 excavator, long reach excavator, Excavator with breaker, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _56____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/09/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II waste.

- Load out 16 trucks for Class I disposal.

- Load out 4 trucks concrete for Class II disposal.

Approximately 1035, a loaded Cummings (Class I) truck returned to the loading area with an unsecured tailgate. Some dirt was released to Lincoln Blvd between Bowley and site. PerfEx responded with the Loader and hand crew to clean up soil. Approximate ¼ yard of soil was spilled. Crew hand sweeps and use power sweeper on Lincoln to Bowley.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 0 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 16
Total Trucks – 1422
Total Est. yds – 25596
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete, Class II – 7 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _57____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/10/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II waste.

- Load out 17 trucks for Class I disposal.

- Load out 1 truck concrete for Class II disposal.

Stockpiles

Class I – 1500 yds
Class II – 50
Potential Class II – 1000
Concrete – 0 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 17
Total Trucks – 1439
Total Est. yds – 25902
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _58____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 9/11/04, Saturday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I and Class II waste.

- Load out 9 trucks for Class I disposal.

Stockpiles

Class I – 1500 yds
Class II – 1500
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 9
Total Trucks – 1448
Total Est. yds – 26064
Class II Trucks – 2
Total Trucks – 8
Total Est. Yds - 144
Greenwaste – 80 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-0830

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _59____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/13/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II waste.

- Load out 30 trucks for Class I disposal.
- Load out 13 trucks for Class II disposal.
- Over-ex BB3EX118 and BB3EX120

Stockpiles

Class I – 1500 yds
Class II – 1266
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 420 yds
Metal – 10 yds

Loads Out

Class I Trucks – 30
Total Trucks – 1478
Total Est. yds – 26604
Class II Trucks – 13
Total Trucks – 21
Total Est. Yds - 378
Greenwaste – 80 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _60____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/14/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II and tree stumps waste. Collect confirmation samples

- Load out 21 trucks for Class I disposal.
- Load out 2 trucks for Class II disposal
- Load out 2 trucks with tree stumps – W. Contra Costal.
- RW Davis surveyor survey.

Collect Soil Confirmation samples:

BB3EX122[0.5] at over-ex @ BB3EX118[0.5], Colma. Metals only
BB3EX123[0.5] at over-ex @ BB3EX120[0.5], sand, metals, PCBs, pesticides
BB3EX124[0.5] south perimeter, sand, metals,.PCBs,pesticides
BB3EX125[0.5] south perimeter, sand, metals,.PCBs,pesticides
BB3EX126[0.5] at grid C5, sand, metals,PCBs,pesticides
BB3EX127[0.5]north perimeter, sand, metals,PCBs,pesticides

Stockpiles

Class I – 1500 yds
Class II – 1230
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 300 yds
Metal – 10 yds

Loads Out

Class I Trucks – 21
Total Trucks – 1499
Total Est. yds – 26982
Class II Trucks – 2
Total Trucks – 23
Total Est. Yds - 414
Greenwaste – 100 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _61____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 9/15/04, Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I and Class II and tree stumps waste. Survey Lincoln Blvd

- Load out 23 trucks for Class I disposal.
- Load out 10 trucks for Class II disposal
- Load out 2 trucks with tree stumps – W. Contra Costal.
- RW Davis surveyor survey.

A truck from Northern Trucking cuts entry into Bowley Rd too tight, breaks down north side of gate, Per-Ex to repair.

Stockpiles

Class I – 1500 yds
Class II – 1050
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 23
Total Trucks – 1522
Total Est. yds – 27396
Class II Trucks – 10
Total Trucks – 33
Total Est. Yds - 594
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _62____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 9/16/04, Thursday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I and Class II waste

- Load out 26 trucks for Class I disposal.

- Load out 12 trucks for Class II disposal.

Trust 10-wheel dump truck removes recovered granite curb stones

Lew and Tamera Williams (NPS) walk site check topography.

Stockpiles

Class I – 1500 yds
Class II – 834
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 26
Total Trucks – 1548
Total Est. yds – 27864
Class II Trucks – 12
Total Trucks – 45
Total Est. Yds - 810
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _63____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/17/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II waste

- Load out 22 trucks for Class I disposal.
- Load out 13 trucks for Class II disposal.

Stockpiles

Class I – 1500 yds
Class II – 600
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 22
Total Trucks – 1570
Total Est. yds – 28260
Class II Trucks – 13
Total Trucks – 58
Total Est. Yds - 1044
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _64____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 9/20/04, Monday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I and Class II waste

- Load out 22 trucks for Class I disposal.

- Load out 2 trucks for Class II disposal.

Excavator exposes top of partially abandoned piezometer BB3PZ1A.

Note: Light rain over weekend, no visable signs of impact, no run off, no rilling.

Stockpiles

Class I – 1500 yds
Class II – 564
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 22
Total Trucks – 1592
Total Est. yds – 28656
Class II Trucks – 2
Total Trucks – 60
Total Est. Yds - 1080
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _65____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/21/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II waste

- Load out 29 trucks for Class I disposal.
- Load out 2 trucks for Class II disposal.

Gregg Drilling onsite to over drill and complete abandonment of piezometer BB3PZ1A.

Construction meeting

Stockpiles

Class I – 1500 yds
Class II – 384
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 29
Total Trucks – 1621
Total Est. yds – 29178
Class II Trucks – 2
Total Trucks – 62
Total Est. Yds - 1116
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _66____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/22/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste

- Load out 21 trucks for Class I disposal.

Stockpiles

Class I – 1500 yds
Class II – 384
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 21
Total Trucks – 1642
Total Est. yds – 29556
Class II Trucks – 0
Total Trucks – 62
Total Est. Yds - 1116
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _67____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/23/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste

- Load out 21 trucks for Class I disposal.
- Stripe northern slope of vegetation.

Stockpiles

Class I – 1000 yds
Class II – 384
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 21
Total Trucks – 1663
Total Est. yds – 29934
Class II Trucks – 0
Total Trucks – 62
Total Est. Yds - 1116
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _68____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/24/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I waste

- Load out 22 trucks for Class I disposal.

- Stockpile potential Class II soil. Collect waste profile samples. Soil from upper slope.

Long reach down for bucket repair1300-1430

Stockpiles

Class I – 1000 yds
Class II – 884
Potential Class II – 0
Concrete – 0 yds
Greenwaste – 550 yds
Metal – 10 yds

Loads Out

Class I Trucks – 22
Total Trucks – 1685
Total Est. yds – 30330
Class II Trucks – 0
Total Trucks – 62
Total Est. Yds - 1116
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _69____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/27/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class I and Class II waste, over-ex BB3EX122, BB3EX123

- Load out 24 trucks for Class I disposal.
- Stockpile potential Class II soil. Collect waste profile samples.
- Over-ex BB3EX122 and BB3EX123, stockpile as Class III waste.

Stockpiles

Class I – 540 yds
Class II – 1500
Potential Class II – 0
Class III – 250 yds
Concrete – 0 yds
Greenwaste – 350 yds
Metal – 10 yds

Loads Out

Class I Trucks – 24
Total Trucks – 1709
Total Est. yds – 30762
Class II Trucks – 0
Total Trucks – 62
Total Est. Yds - 1116
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _70____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 9/28/04, Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class I nad Class III waste, stirp veg outside limits for NPS

- Load out 6 trucks for Class I disposal.
- Load out 29 trucks of soil/greenwaste Class III.
- Stripe vegataion around Battery at direction of NPS.

Stockpiles

Class I – 100 yds
Class II – 1500
Potential Class II – 0
Class III – 250 yds
Concrete – 0 yds
Greenwaste – 50 yds
Metal – 10 yds

Loads Out

Class I Trucks – 6
Total Trucks – 1715
Total Est. yds – 30870
Class II Trucks – 0
Total Trucks – 62
Total Est. Yds – 1116
Class III Trucks – 29
Total Trucks – 29
Total Est. Yds - 522
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _71____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 9/29/04, Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class II and Class III waste, Over-ex BB3EX125, BB3EX126, and BB3EX127

- Load out 29 trucks for Class II disposal.

- Load out 2 trucks of soil/greenwaste Class III.

Stockpiles

Class I – 0 yds
Class II – 1500
Potential Class II – 0
Class III – 150 yds
Concrete – 0 yds
Greenwaste – 50 yds
Metal – 10 yds

Loads Out

Class I Trucks – 0
Total Trucks – 1715
Total Est. yds – 30870
Class II Trucks – 29
Total Trucks – 91
Total Est. Yds – 1638
Class III Trucks – 2
Total Trucks – 31
Total Est. Yds - 558
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _72____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	9/30/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class II waste

- Load out 18 trucks for Class II disposal.

Stockpiles

Class I – 0 yds
Class II – 1500
Potential Class II – 0
Class III – 150 yds
Concrete – 0 yds
Greenwaste – 50 yds
Metal – 10 yds

Loads Out

Class I Trucks – 0
Total Trucks – 1715
Total Est. yds – 30870
Class II Trucks – 18
Total Trucks – 109
Total Est. Yds – 1962
Class III Trucks – 0
Total Trucks – 31
Total Est. Yds - 558
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _73____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/01/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class II waste. Collect Confirmation samples

- Load out 22 trucks for Class II disposal.

- RW Davis surveyors survey.

Collect Soil Confirmation samples:

BB3EX128[0.5] at over-ex @ BB3EX122[0.5], Colma. Metals only
BB3EX129[0.5] at over-ex @ BB3EX123[0.5], sand, metals only
BB3EX130[0.5] valley mid D4/D5/C4/C5, sand, full suite
BB3EX131[0.5] and DUP100104A at grid D5, sand, metals,.PCBs,pesticides
BB3EX132[0.5] at grid D6, sand, metals,PCBs,pesticides
BB3EX133[0.5] at over-ex @ BB3EX126[0.5], sand, metals
BB3EX134[0.5] at over-ex @ BB3EX127[0.5], sand, metals
BB3EX135[0.5] at over-ex @ BB3EX109[0.5], sand, metals
BB3EX136[0.5] at over-ex @ BB3EX125[0.5], sand, metals

Stockpiles

Class I – 0 yds
Class II – 1500
Potential Class II – 0
Class III – 150 yds
Concrete – 0 yds
Greenwaste – 50 yds
Metal – 10 yds

Loads Out

Class I Trucks – 0
Total Trucks – 1715
Total Est. yds – 30870
Class II Trucks – 22
Total Trucks – 131
Total Est. Yds – 2358
Class III Trucks – 0
Total Trucks – 31
Total Est. Yds - 558
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _74____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 10/04/04, Monday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Load out Class II waste. Collect Confirmation samples

- Load out 21 trucks for Class II disposal.

Stockpiles

Class I – 0 yds
Class II – 1500
Potential Class II – 0
Class III – 150 yds
Concrete – 0 yds
Greenwaste – 50 yds
Metal – 10 yds

Loads Out

Class I Trucks – 0
Total Trucks – 1715
Total Est. yds – 30870
Class II Trucks – 21
Total Trucks – 152
Total Est. Yds – 2736
Class III Trucks – 0
Total Trucks – 31
Total Est. Yds - 558
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _75____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/05/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out Class II waste. Mob to BBDA 4

- Load out 19 trucks for Class II disposal.
- Mob long reach to BBDA 4, begin stripping vegetation cover, use 10-wheel truck to transfer and stockpile material at BBDA 3. Move traffic control to above and below BBDA 4 during site work, move back up to BBDA 3 when trucks return for second loop load out. Lincoln Blvd. closed to all traffic to unload long reach (0845-0855).
- Collect waste characterization samples from stockpile at BBDA 3.

Construction meeting

Stockpiles

Class I – 0 yds
Class II – 1500
Potential Class II – 0
Class III – 150 yds
Concrete – 0 yds
Greenwaste – 50 yds
Metal – 10 yds

Loads Out

Class I Trucks – 0
Total Trucks – 1715
Total Est. yds – 30870
Class II Trucks – 19
Total Trucks – 171
Total Est. Yds – 3078
Class III Trucks – 0
Total Trucks – 31
Total Est. Yds - 558
Greenwaste – 150 yds
Concrete, Class II – 8 trucks

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper, 10-wheel dump truck

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _76____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/06/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Excavate BBDA 4.

- Excavate with long reach at BBDA 4, load out in 10-wheel to BBDA 3. Two 10-wheelers running loops to transfer and stockpile material at BBDA 3. Traffic control above and below BBDA 4 during site work.

- Expose and remove 55 ft of 2" dia steel pipe, threaded collar joints from toe of slope. Pipe empty, dry, possible old water line.

- Expose 10" CMP strom drain outfall from DI on Lincoln Blvd. Pipe completely full of sediment, completely plugged. Leave in placed.

- No offhaul from either site

Wendell onsite, discuss erosion control for BDA 3 with Lew, decide to try wattle, may not work on slopes, limit erosion fabric mat.

BBDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 70 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 500 yd	Total Trucks – 1715	Total Trucks - 0
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 0
Class III – 150 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 171	Total Trucks – 0
Greenwaste – 50 yds		Total Est. Yds – 3078	Total Est. Yds – 0
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 31	
		Total Est. Yds - 558	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper 2 10-wheel dump trucks.

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _77____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/07/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Complete excavation BBDA 4. Collect conformation samples

- Complete excavation with long reach at BBDA 4, mob back to BBDA 3. Lincoln Blvd closed to traffic 1280-1240, one lane traffic control 1240-1245.
- Load out 23 trucks of BBDA 4 for Class II disposal at Altamont.
- Mark confirmation sample locations with Wendell, Jenn Setting temp erosion control at BBDA 3, bracket willow mat with silt fence, fabric only bottom 100 ft. wattle not too manageable on slopes, unstable.

Collect Soil Confirmation samples:

BB4EX100[0.5] and DUP100704A at center of excavation, bottom, sand, full suite
BB4EX101[0.5] approx 25 ft west of EX100, bottom, sand, COCs (OCPs, metals)
BB4EX102[0.5] approx. 25 ft east of EX100, bottom, sand, COCs
BB4EX103[0.5] approx. 50 ft east of EX106, perimeter, sand, COCs
BB4EX104[0.5] approx. 50 ft north of EX105 perimeter, sand, COCs
BB4EX105[0.5] approx 15 ft west of EX101, perimeter, sand, COCs
BB4EX106[0.5] approx. 50 ft SE of EX105, perimeter, sand, COCs
BB4EX107[0.5] approx. 50 ft east of EX104, perimeter, sand, COCs

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 70 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 100 yd	Total Trucks – 1715	Total Trucks - 0
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 0
Class III – 150 yds		Class II Trucks – 0	Class II Trucks – 23
Concrete – 0 yds		Total Trucks – 171	Total Trucks – 23
Greenwaste – 50 yds		Total Est. Yds – 3078	Total Est. Yds – 414
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 31	
		Total Est. Yds - 558	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper 10-wheel dump trucks.

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _____

Project: _____ Project No: _____

Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: _____

Field Engineer: _____

Crew 0530-1430

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _78____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/08/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Excavate BBDA 3. Offhaul BBDA 3 and 4

- Load out 15 trucks of BBDA 3 for Class II disposal at Altamont, excavate and restock piles.
- Load out 1 truck of BBDA 3 for Class III disposal at OX Mt
- Load out 6 trucks of BBDA 4 for Class II disposal at Altamont.
- Load out 3 trucks of BBDA 4 for Class III disposal at Ox Mt.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 3
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 132 yds		Class II Trucks – 15	Class II Trucks – 6
Concrete – 0 yds		Total Trucks – 186	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 3348	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 1	
		Total Trucks – 32	
		Total Est. Yds - 576	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _79____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/11/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Excavate BBDA 3. Offhaul BBDA 3

- Load out 29 trucks of BBDA 3 for Class II disposal at Altamont, excavate and restock piles.
- Collect additional waste characterization samples from stockpile.
- RW Davis surveyor on site.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 132 yds		Class II Trucks – 29	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 215	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 3870	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 32	
		Total Est. Yds - 576	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _80____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 10/12/04, Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Excavate BBDA 3. Offhaul BBDA 3

- Load out 23 trucks of BBDA 3 for Class II disposal at Altamont, excavate and restock piles.

- Load out 7 trucks of BBDA 3 for Class III disposal at OX Mt

Construction meeting. Walk BBDA 4. Wendell and Scott concerned slope will need to be buttressed, too steep. George/ Jenn not sure if necessary. Path need attention to correct rain runoff pattern, not onto Btty Chamberlin Rd.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 500 yds		Class II Trucks – 23	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 238	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 4284	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 7	
		Total Trucks – 38	
		Total Est. Yds - 684	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _81____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/13/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Excavate BBDA 3. Offhaul BBDA 3

- Load out 23 trucks of BBDA 3 for Class II disposal at Altamont, excavate and restock piles.

- Load out 10 trucks of BBDA 3 for Class III disposal at OX Mt

Believe we exposed the edge (western) of the historical chert road, have crew not excavate further in area for now.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 500 yds		Class II Trucks – 23	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 261	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 4698	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 10	
		Total Trucks – 48	
		Total Est. Yds - 864	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0530-1430

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _82____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/14/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Excavate BBDA 3. Offhaul BBDA 3

- Load out 24 trucks of BBDA 3 for Class II disposal at Altamont, excavate and restock piles.

- Load out 9 trucks of BBDA 3 for Class III disposal at OX Mt

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 500 yds		Class II Trucks – 24	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 285	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 5130	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 9	
		Total Trucks – 57	
		Total Est. Yds - 1026	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0530-1430

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _83____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 10/15/04, Friday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Excavate BBDA 3. Offhaul BBDA 3

- Load out 26 trucks of BBDA 3 for Class II disposal at Altamont, excavate and restock piles.

- Load out 4 trucks of BBDA 3 for Class III disposal at OX Mt

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 26	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 311	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 5598	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 4	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0530-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _84____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/18/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Expose chert road

- No truck offhaul today, NPS tree cutting crew will be falling near Lincoln Blvd, do not want the truck active.

- Crew spend day (short day) exposing the historical chert road, starting from the work limits near Battery Crosby. Road appears to be yellow weathered serpentine under chert.

Light rain over weekend, no apparent effects at either site.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 311	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 5598	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0530-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _85____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 10/19/04, Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: rain day -

No site work, moderate rain most of day.

By mid-day a large rill has formed on middle of northern flank, approx 6 ft wide, 4 ft deep at slope break. No sediment offsite. An old drain pipe (clay, 3" dia) pound flowing on upper northern flank from Battery. It appears to be the source of the water for the willows on the northern flank. Most of pipe is broken in half (by excavator), no location of pipe outfall.

Construction meeting.

Following construction meeting proceed to site. Meet at BBDA 4 with George, Jenn, Wendell, Lew and Herman (NPS Roads). Discuss erosion control/slope stability issues at site. The plan is to have the Trust concrete up fill DI and install a asphalt "speed bump" across Btty Chamberlin Rd to keep Lincoln runoff in v-ditch. The NPS will build up the foot path to keep water on Lincoln and not flow down Btty Chamberlin Rd.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 3
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 6
Concrete – 0 yds		Total Trucks – 311	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 5598	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0700-0730

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _86____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/20/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Expose chert road

- No truck offhaul today, Work on exposing chert road.

Bob Boggs visit site with Jenn. Show him large rill from recent rains. Walk BBDA 4, ask that the slope be hand picked before installing final erosion control.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 311	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 5598	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper. Container removed from site

Crew 0530-1330

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _87____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 10/21/04, Thursday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Install Erosion Control at BBDA 4

- Hand pick BBDA 4 slope for and small concrete, rock , and metal debris.
- Use a hand level to shoot in 138 ft topographic contour, use survey stake on Btty Chamberlin Rd as control. Install a single wattle on contour.
- Install erosion fabric across BBDA 4 slope and ravine.
- Install silt fence along toe of BBDA 4 slope. And a second fence across end of ravine.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 311	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 5598	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _88____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/22/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil. Install Erosion Control at BBDA 3

- Load out 40 trucks for Class II disposal .
- Use a hand level to shoot in 60, 70, 80, 90, 100, 110 ft topographic contour, use survey stake on set in BBDA 3 ravine as control. Install wattles on contour.
- Install 2 silt fences, spaced 100 ft apart starting from the eastern silt fence around willow mat.
- Install erosion fabric across BBDA 3 slope between second and third silt fence from bottom. Each panels run perpendicular to the fall of the ravine and extends up the flank 5 ftt vertical of ravine centerline.

Wendell and Lew agree that only the lower portion need fabric. Wendell also wants to add wattles on the 5 ft contour lines from the third silt fence to the mid-slope bench.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 40	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 351	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 6318	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _89____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 10/25/04, Monday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Offhaul Class II soil. Expose chert road

- Load out 39 trucks for Class II disposal .
- Use a hand level to shoot in 130, 140, and 150 ft topographic contour on top of northern flank, use survey stake on set in BBEX109 as control. Install wattles on contour.
- Expose chert road from NE corner of site. The road is approx. 4 ft below current surface grade. It appears to extend to the east under the fill sand placed for Lincoln.

Rain expected

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 39	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 390	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 7020	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _90____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	10/26/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Rain day, no site work.

- Heavy rain over night, BBDA 4 silt fences topped, PerfEx to repair, BBDA 4 look fine.

- Site walk with Wendell and PerfEx. Wendell wants to add wattles at 87.5 and 107.5 ft contours in ravine, 155, 160, and 165 ft contours on top of northern flank, and below old drain pipe and willows across flank. Also install a silt fence between the lowest two, and 2 silt fences on the upper slope (300 and 350 ft up slope from toe).

- Walk site with George and Jenn, check chert road and discuss prior to meeting tomorrow with NPS archeologist. Also, discuss proposed monitoring well locations prior to meeting with DTSC tomorrow

Rain expected

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 390	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 7020	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _91____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 10/27/04, Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Maintain BBDA 4 Erosion Control. NPS Acheologist site meeting, DTSC Wells site meeting.

- Crew installing additional erosion control as discussed yesterday.

- 0715, site meeting with NPS and Leo Barker (NPS Archeologist) and Jenn, Present photos on road exposed. Leo would like trenches dug to map the limits of the chert road.

- 1030, site with Jenn, Brian, Bob Boggs, Sigrida, discuss proposed monitoring well locations prior to meeting. Agree on two monitoring wells on upper road area and four "fixed water monitoring point" locations down through the ravine.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 390	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 7020	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _92____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 11/01/04, Monday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: GPS edge of hexposed historical Battery Crosby Road..

- No site work on 10/28, 29/04 due to too wet to work

- Jenn and Ben Jones (Trust) GPS survey limits of exposed old chert road..

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 390	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 7020	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _93____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/03/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil. Trench old chert road.

- Load out 31 trucks for Class II disposal.

- Long reach excavator returns to site. PerfEx had it at another site 10/28-11/3

- Trust backhoe onsite to excavate two trenches across exposed chert road to find limits. 1st trench approx 60 ft long , E-W, 10" wide, 18" deep. First 3 ft from east yellow weathered serpentine on sand (old road), next 47 ft chert on sand (new chert road), last 10 ft fill thickening. 2nd trench apporx. 35 ft long, N-S, 10" wide, 18" deep. First 20 ft from north yellow weathered serpentine on sand under chert (old road), last 15 ft chert on sand (new road). No samples collected, photo document and measure only Ben Jones and Jenn GPS trench locations.

- While excavation uncover an old retaining wall for the old chert road. Consists of vertical 8-10 ft high corrugated steel sheets with wire rope and stake tie-backs. North side clean sand backfill, south side large wedge of weathered serpentine gravel, at wall wedge over 10 ft thick. GPS location and alignment orientation.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 31	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 421	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 7578	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _94____

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 11/04/04, Thursday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Offhaul Class II soil. NPS Acrcheologist Inspects Retaining wall.

- Load out 21 trucks for Class II disposal.

- Site meeting Jenn, Frank, Tony D, Johanna Wendell, and Leo Barker inspects old retaining wall. Photo document and measure. Leo said to backfill and leave inplace. Not to remove because it's a historical feature. Backfill area with local sand.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 21	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 442	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 7956	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _95____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/05/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil. Collect confirmation samples.

- Load out 10 trucks for Class II disposal.

- RW Davis surveyors survey BBDA 3 and BBDA 4.

Collect Soil Confirmation samples:

BB3EX137[0.5] 75 ft E of BB3EX136[0.5], sand. metals,.PCBs,pesticides
BB3EX138[0.5] at center of grids D5/E5-D6/E6, sand, metals,.PCBs,pesticides
BB3EX139[0.5] at center of grids D6/E6-D7/E7, sand, full suite
BB3EX140[0.5] 60 ft N of BB3EX127[0.5], sand, metals,.PCBs,pesticides
BB3EX141[2.5] E of BB3EX140, 1/3 way down 8 ft vert.wall, eng. fill, metals,PCBs,pesticides
BB3EX141[5.5] E of BB3EX140, 2/3 way down 8 ft vert.wall, eng. fill, metals,PCBs,pesticides
BB3EX142[0.5] 75 ft E of BB3EX140[0.5], sand. metals,.PCBs,pesticides
BB3EX143[0.5] and DUP110504A at grid B5, sand, metals,.PCBs,pesticides
BB3EX144[0.5] at grid C6, sand, metals,.PCBs,pesticides

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 10	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 452	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 8136	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _96____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/08/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil.

- Load out 17 trucks for Class II disposal.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 17	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 469	Total Trucks – 29
Greenwaste – 50 yds		Total Est. Yds – 8442	Total Est. Yds – 522
Metal – 10 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _97____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/09/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No offhaul, excavate only.

- One one operator onsite, excavate and stockpile only.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 469	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 8442	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0700-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _98____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/10/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No site work, rain day.

- Check site, no impact from rain.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 469	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 8442	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0000-0000

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _99____

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/11/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No site work, rain day.

- Check site, BBDA 3: small rills on northern flank, small slump on southern flank near toe, no run off BBDA 4: no impact.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 469	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 8442	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _100___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/12/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No site work, rain day.

- Check site, BBDA 3: heavy rain, large rill on northern flank, upper 3 silt fences overtopped, 4th ok. Toe looks ok, most wattles full, no run off. BBDA 4: no impact.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 469	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 8442	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _101___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/15/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No offhaul, repair erosion control.

- Crew repairs and resets BBDA 3 erosion control dig out silt fences and wattles. BBDA 4: no impact.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 469	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 8442	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _102___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/16/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil, Trim chert road, stockpile retained chert.

- Load out 27 trucks for Class II disposal.

- Trim old chert road, leave a 20 ft wide road extending out from sand bank. Stockpile excavated chert material for possible reuse with road replacement.

Construction meeting.

Walk site with Wendell, discuss erosion control repairs.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 27	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 496	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 8928	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _103___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/17/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil, Trim chert road, stockpile retained chert.

- Load out 6 trucks for Class II disposal.

- Trim old chert road, leave a 20 ft wide road extending out from sand bank. Stockpile excavated chert material for possible reuse with road replacement. Approx. 120 yds total.

Collect 4 samples from stockpile, lab composite and run as 1 for metals, PCBs, pesticides

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 6	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 502	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 9036	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1130

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _104___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/18/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

ichDescription of Work: Offhaul Class II soil.

- Load out 28 trucks for Class II disposal.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 1500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 28	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 530	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 9540	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1130

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _105___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/19/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil, excavate last of soil.

- Load out 22 trucks for Class II disposal.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 500	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 22	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 552	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 9936	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, long reach excavator, 966 loader, D7, water truck, sweeper.

Crew 0600-1130

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _106___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/22/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Offhaul Class II soil, Collect confirmation samples.

- Load out 20 trucks for Class II disposal.

- RW Davis surveyor survey topo and grid

Collect Soil Confirmation samples:

BB3EX145[0.5] 75 ft E of BB3EX142[0.5], chert road. metals,.PCBs,pesticides
BB3EX145[1.0] same location only deeper, sand, metals,.PCBs,pesticides
BB3EX146[0.5] 75 ft E of BB3EX145[0.5], chert road. metals,.PCBs,pesticides
BB3EX146[1.0] same location only deeper, sand, metals,.PCBs,pesticides
BB3EX147[0.5] 75 ft E of BB3EX146[0.5] (along east sand bank), chert road. metals,.PCBs,pesticides
BB3EX147[1.5] same location only deeper, sand, metals,.PCBs,pesticides
BB3EX148[0.5] at grid C7, sand. metals,.PCBs,pesticides
BB3EX149[0.5] at grid D7, sand, full suite
BB3EX150[0.5] at 75 ft E of BB3EX147[0.5], chert road. metals,.PCBs,pesticides
BB3EX150[2.5] and DUP112204A same location only deeper, sand, metals,.PCBs,pesticides

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 20	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Demob long reach excavator

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _____

Project: _____ Project No: _____

Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: _____

Field Engineer: _____

Crew 0600-1530

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _107___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/23/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Final slope grading, Collect confirmation samples.

- Crew cleaning up site, re-contour slope, move sand to cover vertical wall at BB3EX141

Collect Soil Confirmation samples:

BB3EX151[0.5] at grid D8, chert road. metals,.PCBs,pesticides
BB3EX152[0.5] at grid E8, chert road, metals,.PCBs,pesticides
BB3EX153[0.5] 75 ft E of BB3EX136[0.5], chert road, full suite
BB3EX154[0.5] and DUP112304A, 10 ft south of grid E7, sand, metals,.PCBs,pesticides

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0600-1230

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _108___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/24/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Final slope grading.

- Crew cleaning up site, re-contour slope, set additional erosion control

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0600-1230

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _109___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	11/30/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Survey final topography.

- No crew, RW Davis survey final topography

No site work since 11/24/04, light rain over weekend, no significant erosion.

Data meeting: Chert road samples BB3EX145[0.5] through BB3EX148[0.5] fail for either PCBs and/or pesticides. Will have to be removed and replaced. The sand samples under the chert road pass (BB3EX145[1.0], BB3EX146[1.0], and BB3EX147[1.5]). Wendell to prepare replacement road design for NPS 5X review next Wednesday 12/8/04.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _110___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/06/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Drill and install Groundwater wells BB3GW100 and BB3W101.

- Gregg Drilling onsite with ryno to install 2 groundwater monitoring wells. BB3GW100: encounter water at 30 ft, drill and set at 35 ft. 10 ft screen

- BB3GW101, groundwater not encountered. Drill to 21, sand colma contact, no water drill to 31 ft, 10 ft into colma serpentine and shale gravels, wait for water, no water. Discuss with Jenn. Backfill to 26 ft with sand, bentonite chips 26-25.5sand 25.5-25, set well at 25 ft. 10 ft screen. Did not want to drill deeper and screen water different than BB3GW100 (dune sand/Colma contact).

No site work since 11/30/04.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _111___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/07/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Erosion control repair.

- Overnight rain cause moderate impact to site. 4 man crew out to clean out and reset silt fences and wattle. No offsite discharge.

No site work since 11/30/04.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0700-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _112___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/08/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No site work.

- Overnight rain cause little impact to site, crew scheduled out to clean out and reset silt fences and wattle tomorrow Water runoff to beach.

Replacement road design not submitted to 5X for review by NPS.

Visit Clearlake Lava Quarry north of Clearlake Oaks on Hwy 20 in Lake County. Go with Jenn to see possibility of using the red lava rock for chert road top dress for road replacement. Also visit their 2nd quarry at Point Lakeview. Collect several baggie samples for review by NPS 5X.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _113___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/09/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Crew repair erosion control. Install fixed water monitoring points.

- Crew clean out and reset silt fences and wattle. Water runoff to beach.

Hand auger three fixed water monitoring point locations. Each point constructed of 5 ft long, 2-inch dia. PVC well screen (0.020 slot) annulas backfilled with dune sand cuttings. Each point approx. 2.5 ft below ground surface. Install BBSW100 at toe, BB3SW101 at sample location BB3EX115, and BB3SW102 at BB3EX130. Locations damp at BB3SW100 and B3SW101. Flowng water at BB3SW102.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _114___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/13/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Install Piezometer BB3PZ101.

- No crew onsite.

Hand auger piezometer BB3PZ101 to 18 ft. Constructed of 15 ft long, 2-inch dia. PVC well screen (0.020 slot) and 5 ft blank. Annulas backfilled with dune sand cuttings. Piezometer approx. Water encountered at 16.5 ft bgs.

No site work on 12/08/04 Friday..

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _115___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/14/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Develop Well BB3GW100.

- No crew onsite.

Blaine Tech Services develops well BB3GW100, well BB3GW101 dry. Blaine Tech collects a groundwater sample from well BB3GW100.

Construction meeting.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _116___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/15/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Remove portion of old chert road.

- Crew excavates and removes portion of historical Btty Crosby Rd that failed cleanup levels. Approx. 160 of road was removed, from mid-point of BB3EX142/BB3EX145 and BB3EX147/BB3EX151. Stockpile material on plastic near wattle stockpile area and cover.

Collect Soil Confirmation sample:

BB3EX155[0.5] at over-ex BB3EXD145[1.0], sand, pesticides
Also, Jenn wanted a sample of the Clearlake lava rock analyzed.
Submit sample BB3-CLLAB for metals, TPHs, and pH.

Map BBDA 3 erosion control installation.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 572	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10296	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _117___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/16/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out chert road, collect seep samples, Collect last confirmation sample.

- Load out 18 truck loads of chert/sand to Class II Altamont.
- Load out 1 truck load of tires for recycling at Recovery West
- A Class II truck breaks down, parked on Lincoln shoulder. A spare truck arrives and takes load to landfill. Removed by trucking firm.

Collect Soil Confirmation sample:

BB3EX156[0.5] and DUP121604A at over-ex BB3EXD148[0.5], sand, PCBs

Blaine Tech collects seep samples.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 18	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 590	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10620	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0700-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _118___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/17/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Load out chert road.

- Load out 14 truck loads of chert/sand to Class II Altamont.
- RW Davis surveyor surveys portion of removed road

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 14	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader, D7, sweeper.

Crew 0700-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _119___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/20/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No site work, Pre-DTSC Final data review.

- Meet at Buld 1750, Jenn, Brian, Sigrida, MAC discuss all data and few exceedances. Also, Brian informs Trust that replacement road design not ADA compliant, needs to be revised to accommodate ADA issues.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _120___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/21/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No site work, DTSC data review.

- Meet at Buld 1750, Jenn, George, Brian, Bob Boggs, MAC discuss all data and few exceedances. Bob ok with all data except he needs to have the Vd and Se exceedances approved by his boss. Site walk. Bob thinks area near grid C4 near willows needs additional cleanup. Believs too much surface debris (random small concrete, tile, metal observed). Trust agrees to scrape the area and remove surface debris. No additional sampling required..

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _121___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/23/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: No site work, Survey TOC for wells.

- Meet Cliff onsite to show area DTSC requests cleaning.

- Chuadhary & Assoc. surveyor survey well, piezometers, and fixed water monitoring points.

No site on 12/22/04

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0000-0000

Attachments: _____

_____ Initials _____

Treadwell&Rollo

FIELD REPORT NO. _122___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/27/04, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair erosion control.

- Moderate rain, crew onsite to cleanout and reset erosion control. Water run off to beach all from seep.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _123___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/28/04, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair erosion control.

- Moderate rain, crew onsite to cleanout and reset erosion control, add additional silt fence near toe. Water run off to beach all from seep.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1400

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _124___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/29/04, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair erosion control.

- Rain stops, crew onsite to cleanout and reset erosion control, using sand bags to strengthen wattles and silt fences. Flow incising down ravine. Water run off to beach all from seep.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _125___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/30/04, Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair erosion control.

- Heavy rain overnight, most sand bags from yesterdays work have been displaced. Crew onsite to cleanout and reset erosion control, using sand bags to strengthen wattles and silt fences. Flow incising down ravine, most water from seeps. A large rill has opened near the head of the ravine, near wattle stockpile. Water run off to beach all from seep.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _126___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	12/31/04, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair erosion control.

- Light rain overnight, no real effect noticed. Crew onsite to complete cleanout and reset erosion control. Flow incising down ravine, most water from seeps. A large rill has opened near the head of the ravine, near wattle stockpile. Water run off to beach all from seep.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _127___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/02/05, Sunday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Check on erosion control.

- Light rain all weekend, check site conditions. Erosion control working, but will need to be cleaned out tomorrow.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _128___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/03/05, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair erosion control.

- Crew onsite to complete cleanout and reset erosion control. Flow incising down ravine, most water from seeps. Water run off to beach all from seep.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _129___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/04/05, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Scraping knoll.

- Crew onsite to pull erosion control in the area BB3EX110, 121, 127 where DTSC request surface scraping to be conducted.

- Scrape area using 330 excavator, remove approx. 6 inches to 1 foot of surface sand. Approx. 120 cubic yards generated. Stockpile material near site access by wattle storage.

- Will have the confirmation soil sample analytical data from BB3EX110[0.5], BB3EX121[0.5], and BB3EX127[0.5] fax'd to PerfEx to waste profile stockpile.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _130___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/05/05, Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Scraping knoll, DTSC review.

- Crew onsite to complete scraping and reset erosion control Scrape most of the northern flank to remove random surface chert and debris.

- Reset displaced wattles on northern flank. Add additional wattles over scraped area. Wattles placed on topographic contour using hand level.

1100 @ Building 1750, data meeting with DTSC. Attending: George, Jenn, Brian, Mike, Bob Boggs and Dan Murphy. A review of the BBDA 3 data indicates all conformation samples are acceptable for clean closure, some low exceedances but acceptable. DTSC only question was whether the NPS had an issue with the vanadium exceedances at BB3EX141[2.5] and BB3EX141[5.5]. Brian said it was not an issue to the NPS. DTSC agreeable that no further soil sampling is required.

1200 all go to site to walk if over. No issues arise. No additional sampling required.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 120 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _131___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/07/05, Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair Erosion Control.

- Crew onsite to maintain silt fences. The flow from the seeps approx 5-7 gpm at toe of slope. The entire toe of the northern flank is seeping. There is a wet zone about 2 feet thick at the toe of the northern flank. Pretty much at the dune sand/Colma contact. Cliff would like to install a collection dam at the main seep .

- Reset displaced wattles on northern flank. Add additional wattles over scraped area. Wattles placed on topographic contour using hand level.

1100 @ Building 1750, data meeting with DTSC. Attending: George, Jenn, Brian, Mike, Bob Boggs and Dan Murphy. A review of the BBDA 3 data indicates all conformation samples are acceptable for clean closure, some low exceedances but acceptable. DTSC only question was whether the NPS had an issue with the vanadium exceedances at BB3EX141[2.5] and BB3EX141[5.5]. Brian said it was not an issue to the NPS. DTSC agreeable that no further soil sampling is required.

1200 all go to site to walk if over. No issues arise. No additional sampling required.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 120 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _132___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/10/05, Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair Erosion Control.

Intermittent rain over weekend, crew onsite to maintain silt fences. The flow from the seeps constant. Clean out silt fences, set new silt fence near toe.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 120 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _133___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/11/05, Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Seep Piping

Check on site conditions 0730. Notice a small hole in slope at seep. Hole approx 6 inch diameter, flowing with water and sand. Within 5 mins., a second hole opens on slope about 6 ft above first. Second hole is vertical to slope. The seep appears to be piping. Return to office, discuss situation with Scott Walker, engineer. 0830 email Jenn and PerfEx informing of seep piping. Return to site with Scott 1030, a second set of holes has opened parallel and west of first set. Check using probe if an actual pipe is buried in slope, none found. The flow is constant 5-7 gpm, water and sand. 1100 George Ford onsite to observe seep. Discuss situation, Scott believes there is no immanent threat of slope failure. We will monitor seep over the next few days. 1400 return to site with Wendell and Jenn, no apparent change in seep flow. .

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 120 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _134___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/12/05,Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Seep Piping

Check on site conditions 0730. No apparent change in the rate of seep flow. The piping has developed into two parallel rills.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 120 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _135___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/14/05,Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair Erosion Control

Check on site conditions 0730. No apparent change in the rate of seep flow, the site has not had rain 1/9/05. The piping has developed into two parallel rills. 1000 Jenn calls for a crew out to repair erosion control. Wattles and silt fences over topped from sand moved by seep flow. Crew arrives and cleans out wattles and repairs silt fences.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 120 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _136___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/17/05,Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Erosion Control

Check on site conditions 0730. No apparent change in the rate of seep flow, still 5-7 gpm, the site has not had rain 1/9/05. The piping has developed into two parallel rills. Repairs made to erosion control on Friday need replacing, seep flow over-whelming erosion control.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 120 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 0	
		Total Trucks – 61	
		Total Est. Yds - 1098	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _137___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/18/05,Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Off-haul Class III Soil, Repair Erosion Control

Load out 6 trucks with sand scraped for DTSC. Material transported Class III to Ox Mt. Off haul of all material complete.

No apparent change in the rate of seep flow, still 5-7 gpm, the site has not had rain 1/9/05. The piping has developed into two parallel rills. Crew spend remainer of day making repairs to erosion control.

Give Jenn four hardcopy sets of chert road design.and final erosion control design figure.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, 966 loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _138___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/24/05,Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Begin construction of Final Erosion Control

No apparent change in the rate of seep flow, still 5-7 gpm, the site has not had rain 1/9/05. The two seep parallel rills beginning to merge. Crew installing 4-inch dia. PVC pipe to capture and devert seep water to beach so final erosion control features can be constructed. Not possible to construct while the sand is flowing.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, IT loader.

Crew 0930-1500

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _139___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/25/05,Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Construction of Final Erosion Control

Complete installing 4-inch dia. PVC pipe to capture and devert seep water to beach, approx. 400 ft of pipe total. Flow cut in half. Clear water flowing from pipe. Approximately the same flow coming off silt fence at toe of slope.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment 330 excavator, IT loader.

Crew 0700-1200

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _140___
Sheet 1 of 1

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 01/26/05,Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: No site work, rain

Intermittent rain.. De-mob 330 excavator. Pipe deverting water working well.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0000-0000

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _141___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/27/05,Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Constructing Final Erosion control

Crew removing all older temporary construction erosion control from mid-slope to toe. Constructing sand bag check dams as per final erosion control design. Using canvas sand bags. Cutting open and dumping out old white ploy sand bags. Pulling up old wattles, stockpile them at toe of slope. Construct 2 check dams by end of day.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _142___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/28/05,Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Rain, no work

Intermittent rain. No site work. Pipe diversion working, very little flow of water at toe of slope silt fence.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _143___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	01/31/05,Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Constructing Final Erosion Control

Crew out all day constructing sand bag check dams. Walk site with Jenn, no run off from toe silt fence. Water in diverted pipe flow unchanged, approx 3-5 gpm..

1300 walk site with Wendell. Check dam construction proceeding well, No work on Battery Crosby design approval..

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _144___
Sheet 1 of 1

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 02/01/05,Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Constructing Final Erosion Control

Crew out all day constructing sand bag check dams.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _145___
Sheet 1 of 1

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 02/02/05,Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Constructing Final Erosion Control

Crew out all day constructing sand bag check dams.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _146___
Sheet 1 of 1

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 02/03/05,Thursday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Constructing Final Erosion Control

Crew out all day constructing sand bag check dams.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _147___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/04/05,Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Constructing Final Erosion Control

T&R not onsite week of 2/7 – 2/11, crew out constructing sand bag check dams and silt fences. Wendell onsite to observe on Wednesday 2/9/05. Wendell requests that the diversion pipe collection dam be moved slightly upslope and check dams installed to try and de-water more of the slope..

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _148___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/14/05,Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitoring Final Erosion Control

Check site before incoming rain, no site work. Site secured, however diversion pipe has been parted at upper 40 ft location. PerfEx says they did not part pipe. Lew said he would reconnect pipe. He said he prefers that the pipe stay as long as possible. The diverted water helps in planting the areas in the ravine by keeping the area dry.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _149___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/15/05,Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitoring Final Erosion Control

Check site, moderate – heavy rain all day. Diversion pipe still parted at upper 40 ft location, Lew was unable to re-connect. Onsite with Jenn. Check dams begin impacted from seep flow. Re-connect diversion pipe. Several of the dams will need to be repaired. Jenn and I make some adjustments to the some of the dams to reduce and direct seep flow.PerfEx says they did not part pipe. Lew said he would reconnect pipe. He said he prefers that the pipe stay as long as possible. The diverted water helps in planting the areas in the ravine by keeping the area dry.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _150___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/16/05,Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitoring Final Erosion Control

Check site, no obvious rills from rain. Re-connection of diversion pipe still together and reduces flow. Check dams and silt fences will need to be dug out and or repaired.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _151___

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/18/05,Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitoring Final Erosion Control

Check site, Re-connection of diversion pipe still together and reducing seep flow. Check dams and silt fences will need to be dug out and or repaired. Wendell onsite. Walk site, requests that the crew dig out impacted wattles. Dig out the centers of the sediment basins behind the check dams and add a single row of sand bags to the top of the dams, except for the very center. Leave a gap of one or two sand bags to direct the flow of the seep water to the center of all dams. Two of the check dams have been eroded under and around the southern end. Need to dig out and re-construct the southern ends. Wendell said that his official approval for the final erosion control was during his last site visit, Wednesday, 2/9/05. No work on approval for Battery Crosby Road design.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0000-0000

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _152___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/22/05,Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair Final Erosion Control

Crew onsite to repair erosion control as per Wendell's instruction. Over weekend rains, moderate to heavy. No real impact from rain. A moderate rill opened at Battery from road run off. Diversion pipe cracks at upper 20 ft bell joint location. Crew repairs.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1430

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _153___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/23/05,Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair Final Erosion Control

Crew onsite to completes repair of erosion control as per Wendell's instruction. No decision on Battery Crosby rd design from 5X.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _154___
Sheet 1 of 1

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 02/24/05,Thursday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Monitor Final Erosion Control

Photo document erosion control repair, email photos to Wendell and Jenn. NPS has crew out to strip vegetation from the Battery and slope. Photo document PerfEx's repair of the gate at Bowley Road, broken by truck 9/15/04.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _155___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	02/28/05,Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Final Erosion Control

Check site, moderate weekend rain. Erosion control hold, some clean out sediment basins needed soon. 1300 Walk site with Jenn, form punch list of final item for PerfEx to complete before de-mob, until Battery Crosy Rd design approval..

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _156___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/01/05,Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Site Meeting with PerfEx

Site meeting with Jenn, Lance, Cliff. The group decision is to hold off on construction of the post and cable fence at the toe of the slope until the Battery Crosby Rd is constructed and install in conjunction with the road post and cable fence. Need to move the large stockpile of wattle to a location Jenn yet to identify. Need to install asphalt "speed bump" at BBDA 4 parallel and under Battery Chamberlin Rd gate, this is to keep water running on Lincoln Ave in the v-ditch and not on Battery Chamberlin Rd. Also, fill in the DI at Battery Chamberlin Rd with asphalt. Also, repair damaged Battery Crosby Rd enterance guard rail.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _157___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/04/05,Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Erosion Control

Over night rain moderate. No major effect from rains. Diversion pipe functioning. A rill has opened at NW corner of site behind the Battery at cliff. The wattle in that area needs to be cleaned out. Also, the lower two sediment basins need to be dug out to keep sediment directed to center. Photo document and email photos and suggestion to Jenn and Wendell.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _158___

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 03/07/05,Monday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Repair Guard Rail

Check site, PerfEx has contractor onsite to repair guard rail, photo document.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _159___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/11/05,Friday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Erosion Control

Check site, Walk site with Jenn. Clear water flowing through diversion pipe, approx 3-5 gpm. Sediment basins getting full. No water flow through silt fence at toe.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _160___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/14/05,Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Erosion Control

Check site, Walk site, the seep has piped again, a large rill has opened. The collection dam and in-take of the diversion pipe have been buried. Monitoring point BB3SW102 has approx 6 inches sticking out. The sediment basins are full. Water has flowed under the silt fences at toe. Have photo documented. Call Jenn, she schedules PerfEx to come out and make repairs.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _161___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/16/05,Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair Erosion Control

PerfEx crew onsite to move wattles and repair erosion control. Jenn arranges for the Trust to provide a stake bed truck to move the stockpile of wattles onsite. Approximately 24 pallets of wattle taken away to the Building 900s area. Andy Baird has the wattles stored.

The crew spends the remainder of the day putting the diversion pipe back in service. The upper 20 feet of the pipe was buried. The pipe has been cut and re-routed to the center of the upper check dam. A check dam to collect the water is constructed. Will repair silt fences and check dams tomorrow . 1130, Wendell onsite. Walk the erosion control, make suggests to the repairs

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1530

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _162___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/17/05,Thursday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Repair Erosion Control

PerfEx crew onsite to repair erosion control. Repair silt fences and check dams. Repair the lower two silt fences and dug out lower three sediment basins. Also, upper wattle near Battery has been cleaned out and the rills have been repaired.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-1330

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _163___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/21/05,Monday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor and Repair Erosion Control

Check site for effects of over weekend rain, light to moderate. Had to modify the diversion pipe collection dam. The piping failure is beginning to settle down. The sand is de-watering and concentration flow along the southern edge of the "fan". Upon arrival, all flow of water was missing the collection dam. Added a collection trough using sand bags to direct flow to diversion pipe. Additionally, had to repair two silt fences at the toe of the slope. Repair the lower middle two silt fences using sand bags. The fences had become undercut from the increased water flow with no water being diverted. A noticeable reduction of the flow of water was observed by the time I depart.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 0730-0900

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _164___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/23/05,Wednesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Erosion Control

Check site for effects of over night rain, light to moderate. The diversion pipe is performing well. A minor rill has developed off Battery Crosby Road near the Battery..

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 1430-1530

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _165___
Sheet 1 of 1

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 03/24/05,Thursday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Monitor Erosion Control

Check site the diversion pipe intake. Clean out accumulated sand at intake Pipe is performing well.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 1430-1530

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _166___
Sheet 1 of 1

Project:	Presidio Baker Beach Disturbed Areas 3 and 4	Project No:	2893.12
Subject:	**CONSTRUCTION OBSERVATION DAILY REPORT**	Date:	03/29/05,Tuesday
Field Engineer:	Michael Chamberlain (MAC)	To:	
Time:		Weather:	
Reviewed by:	Date:		

Description of Work: Monitor Erosion Control

Check site the diversion pipe intake. Pipe is performing well. Very strong winds, blowing sand accumulates at wattles and on Battery Crosby Road at the head of the ravine. NPS planting in ravine around the main seep.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 1430-1530

Attachments: _____

Initials _____

Treadwell&Rollo

FIELD REPORT NO. _167___

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 04/05/05,Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Monitor Erosion Control

Check site the diversion pipe intake. Pipe is performing well. Rill developed from runoff of Btty Crosby Rd near Battery. Wattles performing well.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment IT loader.

Crew 1430-1530

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _168___

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 04/06/05,Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Complete Erosion Control at BBDA 4

PerfEx onsite with hot asphalt to install "speed bump" runoff diversion across Battery Chamberlin Road. Fill DI at north side of Lincoln Boulevard and Battery Chamberlin Road. DI full of dirt. Dig out dirt, approximately 18 inches. Fill DI box with hot asphalt and compact. Crew paints asphalt with bituminous oil before placing hot asphalt for "speed bump". Speed bump is positioned parallel with the pole gate guarding Battery Chamberlain Road and extends approximately 1 foot towards Lincoln Boulevard. Jennifer onsite to check on installation.

Demob IT loader.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment: none.

Crew 0730-1030

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _169___

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 04/13/05,Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Check Site Erosion Control

On site to check erosion control. Wendell suppose to walk site. We miss each other, but discuss site on the phone. The diversion pipe is functioning well. The capture dam seem to be collecting sufficient flow ~ 1 gpm. The check dams are all full, they'll need to be emptied. The water that flows down the ravine soaks in before exiting the site. Flow off site is from below thw silt fence, no surface flow observed. The wattles and silt fences on the upper slopes have sand dunes forming on the up slope side from blowing winds. Jennifer onsite to check on site.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment: none.

Crew 1230-1430

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _170___

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 04/20/05,Wednesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Check Site Erosion Control

On site to check erosion control. A lot of blowing sand. Wattles and silt fences act as wind breaks, allowing sand to collect. The diversion pipe is functioning well. The capture dam seem to be collecting sufficient flow ~ 1 gpm.

PerfEx crew onsite removing all construction fence (except at the toe of the slope) at Jennifer's request. They cleanup site, remove everything except a covered pallet of wattle and stockpiled post and cable saved from old fence. Also, at the chert stockpile, a bundle of empty sand bags and t-posts.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment: none.

Crew 1030-1130

Attachments:

Initials

Treadwell&Rollo

FIELD REPORT NO. _171___

Project: Presidio Baker Beach Disturbed Areas 3 and 4 Project No: 2893.12
Subject: **CONSTRUCTION OBSERVATION DAILY REPORT** Date: 04/25/05,Tuesday
Field Engineer: Michael Chamberlain (MAC) To:
Time: Weather:
Reviewed by: Date:

Description of Work: Check Site Erosion Control

On site to check erosion control following light rain over weekend. A lot of blowing sand. Wattles and silt fences act as wind breaks, allowing sand to collect. The diversion pipe is functioning well. The capture dam seem to be collecting sufficient flow ~ 1 gpm.

At Jennifer's request, secure entrance to Battery Crosby with snow fence and t-post. Post a Trust site closure/information sign on the fence.

BDA3 Stockpiles	BBDA4 Stockpiles	BBDA3 Loads Out	BBDA4 Loads Out
Class I – 0 yds	Greenwaste – 0 yd	Class I Trucks – 0	Class III Trucks - 0
Class II – 0	Class II – 0 yd	Total Trucks – 1715	Total Trucks - 3
Potential Class II – 0		Total Est. yds – 30870	Total Est yds - 60
Class III – 0 yds		Class II Trucks – 0	Class II Trucks – 0
Concrete – 0 yds		Total Trucks – 604	Total Trucks – 29
Greenwaste – 0 yds		Total Est. Yds – 10872	Total Est. Yds – 522
Metal – 0 yds		Class III Trucks – 6	
		Total Trucks – 67	
		Total Est. Yds - 1206	
		Greenwaste – 150 yds	
		Concrete, Class II – 8 trucks	

Equipment: none.

Crew 1400-1530

Attachments:

Initials

APPENDIX D
Storm Water Inspection Forms

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlain Inspector Signature [illegible]

Month of 2/15 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures No effects ob BBDA 4

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	2/15/05	ok	moderate – heavy rain over night
Storm Drain Outfalls		ok	
Silt Fences			will need attention, dig out or reset at tow
Straw Bales		N/A	
Straw Waffles		ok	
Other (Describe) Sand bag dams	2/15/05		dams need to be dug out. diversion pipe working

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	2/15/05	ok	
Equipment Parking Areas		ok	
Grading and Construction Activities		ok	
Other (Describe)	2/15/05		

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlain Inspector Signature [illegible]

Month of feb 28 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures

No effects at BBDA 4

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	2/28/05	ok	moderate rain over weekend. Perf Ex out 2/22 - 2/23 to repair silt fences w/ check dams.
Storm Drain Outfalls		ok	
Silt Fences		ok	
Straw Bales		NA	
Straw Waffles		ok	no impact from rain
Other (Describe) check dams & pipe	2/28/05		Lower dams need to be cleaned out.

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	2/28/05	ok	
Equipment Parking Areas		ok	
Grading and Construction Activities		ok	
Other (Describe)	2/28/05		

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlain Inspector Signature [illegible]

Month of March 3 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures No effects at BBDA4

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	3/4/05	ok	light rain over night
Storm Drain Outfalls		ok	
Silt Fences		ok	
Straw Bales		N/A	
Straw Waffles			need some attention, small fill develops at rear battery.
Other (Describe) dam & pipe	3/4/05		dams should be cleaned out pipe intake ok.

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	3/4/05	ok	
Equipment Parking Areas		ok	
Grading and Construction Activities		ok	
Other (Describe)	3/4/05		

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlain Inspector Signature [illegible]

Month of March 14 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures No effects at BBDA4

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	3/14/05	ok	Seep fails.
Storm Drain Outfalls	✓	ok	
Silt Fences	✓		water mined, need repair
Straw Bales	✓	N/A	
Straw Waffles	✓	ok	
Other (Describe) dam & pipe	3/14/05		Main seep area fails. buried 200 ft of pipe and intake. Need rebuild of intake clear out lower dams.

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	3/14/05	ok	
Equipment Parking Areas	✓	ok	
Grading and Construction Activities	✓	ok	
Other (Describe)	3/14/05		

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chabrier Inspector Signature [signature]

Month of March 21 200 5 Sheet 1 of 1

Storm Water Control and Diversion Structures No effects at BBDA4

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	3/21/05	ok	check site after weekend rains Repairs by Perlex to site made 3/16-3/17
Storm Drain Outfalls	↓	ok	
Silt Fences	↓	ok	crew rest toe fences
Straw Bales	↓	N/A	
Straw Waffles	↓		repairs made on rear battery
Other (Describe) dam & pipe	3/21/05		Pipe working. modify intake to capture more of seep.

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	3/21/05	ok	
Equipment Parking Areas	↓	ok	
Grading and Construction Activities	↓	ok	
Other (Describe)	3/21/05		

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chatzka Inspector Signature [illegible]

Month of March 23 200 5 Sheet 1 of 1

Storm Water Control and Diversion Structures

No effects at BBDA4

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	3/23/05	ok	light over night rain
Storm Drain Outfalls		ok	
Silt Fences		ok	
Straw Bales		N/A	
Straw Waffles		ok	small rill developed out near battery
Other (Describe) Dams & P-ge	3/23/05		Pipe & dams functioning well.

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	3/23/05	ok	
Equipment Parking Areas		ok	
Grading and Construction Activities		ok	
Other (Describe)	3/23/05		

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chandler Inspector Signature [illegible]

Month of April 5 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures No effects at BBD4

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	4/5/05	ok	moderate over-night rain
Storm Drain Outfalls	↓	ok	
Silt Fences	↓	ok	
Straw Bales	↓	N/A	
Straw Waffles	↓		ok, silt deposits at Battery - runoff from Battery Crosby Rd.
Other (Describe) dam & pipe	4/5/05	ok	

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	4/5/05	ok	
Equipment Parking Areas	↓	ok	
Grading and Construction Activities	↓	ok	
Other (Describe)	4/5/05		

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlin Inspector Signature [illegible]

Month of 4/6 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	4/6/05		Install asphalt "speed bump" across Billy Chamberlin Rd to keep run off from Lincoln Ave flowing south along Lincoln. Also fill DI with asphalt to seal it closed - Completes BBDA4 erosion control.
Storm Drain Outfalls			
Silt Fences			
Straw Bales			
Straw Waffles			
Other (Describe)			

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles	N/A		
Equipment Parking Areas			all equipment removed from site
Grading and Construction Activities			
Other (Describe)			

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlain Inspector Signature [illegible]

Month of April 25 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	4/25/05	ok	
Storm Drain Outfalls		ok	
Silt Fences		ok	Some of the silt fence at BB3 damaged from constant wind. Upper fence buried by sand.
Straw Bales		N/A	
Straw Waffles		ok	Waffles at BB3 acting as sand dams blown sand collecting at fence. BB4 - No impact
Other (Describe)	4/25/05		Pipe working well. Only off site runoff is from pipe.

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles			
Equipment Parking Areas			N/A
Grading and Construction Activities			
Other (Describe)			

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlin Inspector Signature [signature]

Month of May 9 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	5/9/05	ok	
Storm Drain Outfalls		ok	
Silt Fences		ok	fences have become filled with sand and/or torn from constant wind.
Straw Bales		N/A	
Straw Waffles			most waffles covered by wind blown sand.
Other (Describe)			- check dams covered with wind blown sand, seep drying up - BB4 no impact from rain

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles		N/A	
Equipment Parking Areas			
Grading and Construction Activities			
Other (Describe)			

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlain Inspector Signature [signature]

Month of May 19 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	5/19/05	ok	
Storm Drain Outfalls		ok	
Silt Fences			same as last visit more blown sand
Straw Bales		N/A	
Straw Waffles			waffles full of sand.
Other (Describe)			No rain affects seen at BB4. vegetation becoming established.

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles		N/A	
Equipment Parking Areas			
Grading and Construction Activities			
Other (Describe)			

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Mike Cimberlin Inspector Signature [illegible]

Month of June 9 200 5 Sheet 1 of 1

Storm Water Control and Diversion Structures

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	6/9/15	ok	moderate rain. No affect onsite
Storm Drain Outfalls		ok	
Silt Fences		ok	
Straw Bales		N/A	
Straw Waffles		ok	No impact from runoff. Seep drying up.
Other (Describe)		ok	No impact at BB4

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles		N/A	
Equipment Parking Areas			
Grading and Construction Activities			
Other (Describe)			

Baker Beach Disturbed Areas 3 and 4
Storm Water Inspection Form

Inspections should be conducted monthly and before and after major storms

Inspector Name Michael Chamberlain Inspector Signature [illegible]

Month of June 17 2005 Sheet 1 of 1

Storm Water Control and Diversion Structures

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Storm Drain Catch Basins	6/17/05	ok	light rain ~~over~~ yesterday (Wed-Thurs)
Storm Drain Outfalls		ok	
Silt Fences		ok	fences being filled and torn by constant wind. No run off to fences.
Straw Bales	N/A		
Straw Waffles		ok	
Other (Describe)			Seep not flowing only damp - BB 4 - no impact

Potential Sources of Pollution

Item(s) Inspected	Date Inspected	Status	If There Was A Problem What Was It and What Corrective Action Was Taken?
Material Storage Areas/Stockpiles			
Equipment Parking Areas		N/A	
Grading and Construction Activities			
Other (Describe)			

APPENDIX E

Results of the Baker Beach Disturbed Areas 3 and 4 Bird Survey

(Jeffery Steinman, February 2004)

Results of the
Baker Beach Disturbed Areas 3 and 4
Bird Survey

Prepared For:
The Presidio Trust
P.O. Box 29052
34 Graham Street
San Francisco,
CA 94129

Prepared By:
Jeff Steinman
734 27th Street
San Francisco,
CA 94131

BACKGROUND

As part of the environmental cleanup process, the Presidio Trust has designated several areas containing contaminated fill and debris to be cleaned up and restored to a more historical condition. Among those areas proposed for clean up are Baker Beach Disturbed Areas 3 and 4(BBDA3&4), a six to seven-acre gully located on the West side of Lincoln Blvd. on the West side of the presidio.

The cleanup of BBDA3&4 will consist of the removal of land fill and a recontouring of the naturally occurring gully. To accomplish this, approximately forty trees will need to be removed. The trees are made up of Monterey pine, Monterey cypress, acacia, lollipop trees and eucalyptus sp. Although all of these species are non-native to the Presidio, they may be providing breeding or foraging habitat for special status avian species. BBDA3&4 is surrounded by coastal scrub and willow riparian habitat, two habitat types that are disappearing throughout California and are known to harbor a number of special status species. In addition, there are a number of owl and raptor species that are known to inhabit the Presidio, but little is known about the location of their territories. This is particularly true of owl species.

The Presidio Trust recognized the need for a biological survey of avian species to be conducted. The results of that study are presented here.

METHODS

Prior to the start of surveying, a list of special-status or locally rare birds for San Francisco was compiled. Bird species that are associated exclusively with aquatic habitats were not included in this list. Aquatic bird species that may use non-aquatic habitats for foraging or breeding were included (the black-crowned night-heron for example). Several sources were consulted to create the list. These are: The California Natural Diversity Database (California Department of Fish and Game, version 3. 0 .3, 2003); The San Francisco Breeding Bird Atlas (2002 San Francisco Field Ornithologists); The California Bird Species of Special Concern Report by the California Department of Fish and Game, (2002); as well as Audubon's 1996 Blue List and 2003 Watch List. The complete list of these species can be found in Tables 1A and 1B at the end of the section.

The survey effort took place as close to the commencement of tree removal as possible, in order to eliminate the possibility of nest construction between the end of the survey effort and the beginning of tree removal. The survey effort consisted of two diurnal or day-time surveys and two nocturnal or night-time surveys. This methodology was selected in order to maximize the potential for detecting both nocturnal and diurnal species.

The diurnal surveys took place preceding sunrise and consisted of an auditory and visual stand search with a special emphasis placed upon any signs indicative of foraging or breeding behavior (e.g., territoriality, nest structures, plucking posts, pellets, or white wash). Any breeding or foraging behavior was noted as well as all species encountered.

The nocturnal surveys took place in the four hours between eight p.m. and midnight, and consisted of broadcast acoustical surveys utilizing the vocalizations of owl species that may be found in the area. These are great horned owls, Western screech owls, and barn owls. Four call points were established that afforded maximum coverage of the study area. Each call point was surveyed by spending an initial fifteen minutes listening for owls, followed by broadcasting a short series of owl calls, followed by a five-minute period of listening for owls and then broadcasting another series of owl calls. Each owl's calls were broadcast several times before switching species and each call point was surveyed for 45 minutes. In order to minimize the effect the great-horned owl vocalizations would have upon the responsiveness of the other owl species, all call points were surveyed starting with Western screech-owls followed by barn owls and ending with great-horned owls.

Table 1A: Non-aquatic Special-status Bird Species of San Francisco

Black-crowned Night-Heron	Tri-colored Black Bird	Rufous Hummingbird
White-tailed Kite	Grasshopper Sparrow	Hermit Warbler
Ferruginous Hawk	Bells Sage Sparrow	Yellow Warbler
Sharp-shined Hawk	Lark Sparrow	Olive-sided Flycatcher
Cooper's Hawk	Alameda Song Sparrow	Western Wood-Pewee
Red-shouldered Hawk	Hairy Woodpecker	Willow Flycatcher*
Merlin	Purple Martin*	Pacific-slope Flycatcher
American-peregrine Falcon*	Vaux's swift	Loggerhead Shrike
Band-tailed Pigeon	Bank Swallow*	Bewick's Wren
Barn Owl	Allen's Hummingbird	Wren-tit

(*Indicates a federal or state-listed threatened or endangered species)

Table 1B: Non-aquatic bird species which are locally rare in San Francisco

Red-tailed Hawk	Spotted Towhee	Hutton's Vireo
Western screech-Owl	Black-headed Grosbeak	Warbling Vireo
Great horned Owl	Northern Flicker	Winter Wren
Ash-throated Flycatcher	Red-breasted Nuthatch	California Quail
Stellers Jay	Savannah Sparrow	Hooded Oriole
Violet-green Swallow	Northern Rough-winged Sparrow	Bullock's Oriole
Cliff Swallow	Lazuli Bunting	Red Crossbill

RESULTS

The Diurnal or day-time surveys took place on February 4th through 6th and resulted in the detection of 18 different bird species. The bird species encountered are listed in Table 2, which also includes; the visit number in which they were observed, their location relative to the survey areas stand of trees and whether they were displaying signs of foraging or breeding behavior.

There were no threatened or endangered species encountered during the survey effort. There were several special-status species encountered, a sharp-shinned hawk and a red–shouldered hawk. Both the sharp-shinned hawk and red-shouldered hawk were on Audubon's Blue List as species of special concern. Neither of these birds was seen using the project area, however. There were three locally rare species detected, a spotted towhee, a pair of red-tailed hawks and several Hutton's vireos. The red-tailed hawk was not using the project area and the spotted towhee was only observed utilizing the coastal-scrub habitat adjoining the project area. The Hutton's vireos were observed foraging in the project area but none of the males were ever heard singing or seen defending any territories (signs indicative of breeding). The only bird exhibiting signs of possible breeding behavior was Anna's hummingbirds, of which two different males were seen performing courtship displays.

The nocturnal surveys took place on the 4th and 5th of February. The surveys resulted in no owl responses during either of the two visits.

Table 2: Birds Observed during Survey

Bird Species	Visit 1	Visit 2	In Stand	Out of Stand	Foraging	Breeding
White-crowned Sparrow	X	X	X	X	X	
Dark-eyed Junco	X		X	X	X	
Anna's Hummingbird	X	X	X	X	X	X
Winter Wren	X	X	X		X	
Hutton's Vireo	X	X	X		X	
Song Sparrow	X	X	X	X	X	
Northern Flicker	X	X	X	X		
Bushtit	X	X	X	X	X	
House Finch	X	X	X		X	
Western Scrub Jay	X	X	X	X	X	
Black-headed Phoebe	X	X		X	X	
Chestnut-backed Chickadee		X	X		X	
Ruby-crowned Kinglet		X	X		X	
Spotted Towhee		X		X		
Common Raven		X		X		
Red-shouldered Hawk		X		X		
Red-tailed Hawk		X		X		
Sharp-shinned Hawk		X		X		

CONCLUSION

The results of the survey effort indicate that there were no special-status species utilizing the project area. The only locally rare species utilizing the area were the Hutton's vireos, which were foraging in the stand but were not singing or defending a territory, signs indicative of breeding. Additionally, the Breeding Bird Atlas recorded March 1st as the earliest date of Hutton's vireos nesting in San Francisco.

The Hawk species in the surrounding area could possibly utilize the trees in the project area as perches for hunting, but such behavior was never observed. All observations took place outside the project area in much larger stands of Monterey Cyprus and Eucalyptus sp. that are much more likely to support successful breeding attempts and certainly supply lots of perches for foraging. A red-shouldered hawk was seen chasing two red-tailed hawks in a near by stand, a sign that the red-shouldered hawk may be defending a territory, however no nest-like structure could be located in the area where this occurred. Furthermore, the Breeding Bird Atlas indicates February 22nd as being the earliest that breeding has been confirmed for the red-shouldered hawks in San Francisco.

Anna's hummingbirds, a wide spread and common species through out San Francisco were the only bird species that may have been breeding in the project area during the survey period, with two males observed performing courtship displays. The Breeding Bird Atlas however explains that the courtship display of males can be seen as early as December but that breeding had not been confirmed in San Francisco until the 22nd of February. It is however not unconceivable that the Anna's hummingbirds had an active nest.

The timing of the survey effort and the subsequent tree removal were an important component to the results of this study. If either of these activities had occurred at a latter date then it is certain that more breeding activity would have been observed, and it is conceivable that locally rare or special-status species may have been found utilizing the area for breeding purposes. The restoration of Baker Beach Disturbed Areas 3 and 4 to a more pristine condition however will undoubtedly create more contiguous habitat for the bird species of the Presidio. This will undoubtedly change the species composition of the area perhaps encouraging the return of some of the sage-scrub and willow-riparian dependent species.

APPENDIX F
Waste Characterization Sample Results and Laboratory Reports

Table F-1
Waste Characterization Analytical Results
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

Sample ID	Sample Date	Sample Type	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Chromium (WET) mg/L	Cobalt mg/kg	Copper mg/kg	Lead mg/kg	Lead (WET) mg/L	Lead (TCLP) mg/L	Molybdenum mg/kg	Nickel mg/kg	Nickel (WET) mg/L	Selenium mg/kg	Silver mg/kg	Thallium mg/kg	Vanadium mg/kg	Vanadium (WET) mg/L	Zinc mg/kg	Mercury mg/kg	TEPH Gasoline mg/kg	TEPH Diesel mg/kg	TEPH Motor Oil mg/kg	Oil and Grease mg/kg	All PCBs mg/kg	All OCPs mg/kg	All BTEX mg/kg	All SVOCs mg/kg	All VOCs mg/kg
	Analytical Method		6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	7471A	8015M/8021	8015M	8015M	1664A	8082	8081	8021	8070C	8260B
	Waste Criteria		500	500	10,000	75	100	2,500	560	8,000	2,500	1,000	5	5	3,500	2,000	20	100	500	700	2,400	24	5,000	20	--	--	--	--	--	--	--	--	--
BBDA 3																																	
061404-BB3TP-112A,B,C,D	06/14/04	in-situ	-	-	-	-	-	-	-	-	-	61	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061404-BB3TP-113A,B,C,D	06/14/04	in-situ	-	-	-	-	-	-	-	-	-	120	**6.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061404-BB3TP-114A,B,C,D	06/14/04	in-situ	-	-	-	-	-	-	-	-	-	140	**9.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061404-BB3TP-115A,B,C,D	06/14/04	in-situ	-	-	-	-	-	-	-	-	-	83	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061404-BB3TP-116A,B,C,D	06/14/04	in-situ	-	-	-	-	-	-	-	-	-	51	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061404-BB3TP-117,118,119,1	06/14/04	in-situ	-	-	-	-	-	-	-	-	-	**1,400**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061404-BB3TP-117,118,119,1	06/14/04	in-situ	-	-	-	-	-	-	-	-	-	230	**51**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS100[1]	06/30/04	in-situ	< 3.0	2.7	270	0.47	< 0.25	22	-	22	120	20	-	-	< 1.0	20	-	1	< 0.25	< 0.25	41	-	33	-	-	-	-	-	31*	ND	-	-	-
BB3SS101[1.5]	06/30/04	in-situ	< 2.3	1.4	280	0.62	< 0.19	15	-	13	120	8.8	-	-	< 0.77	18	-	0.8	< 0.19	< 0.19	29	-	28	-	-	-	-	-	ND	ND	-	-	-
BB3SS102[1.5]	06/30/04	in-situ	< 3.2	1.4	280	0.43	< 0.27	16	-	9.6	81	19	-	-	< 1.1	24	-	0.58	< 0.27	< 0.27	27	-	47	-	-	-	-	-	ND	6.6*	-	-	-
BB3SS100[2]	06/30/04	in-situ	< 2.5	3.0	19	0.094	< 0.21	35	-	5.5	5.4	5.4	-	-	< 0.85	20	-	0.45	< 0.21	< 0.21	36	-	19	-	-	-	-	-	ND	ND	-	-	-
BB3SS101[2.5]	06/30/04	in-situ	< 2.5	2.1	15	0.10	< 0.21	32	-	3.9	5.0	1.7	-	-	< 0.84	14	-	0.26	< 0.21	< 0.21	25	-	12	-	-	-	-	-	ND	ND	-	-	-
BB3SS102[2.5]	06/30/04	in-situ	< 3.2	2.7	16	0.11	< 0.26	37	-	4.7	4.3	2.6	-	-	< 1.1	19	-	0.38	< 0.26	< 0.26	32	-	15	-	-	-	-	-	ND	ND	-	-	-
070704-A1,A2,A3,A4	07/07/04	stockpile	-	-	-	-	< 0.50	90	-	-	-	100	**9.0**	-	-	120	-	-	-	-	-	-	140	-	-	-	-	-	-	-	-	-	-
070704-B1,B2,B3,B4	07/07/04	stockpile	-	-	-	-	0.87	78	-	-	-	**1,600**	**5.7**	-	-	100	-	-	-	-	-	-	**13,000**	-	-	-	-	-	-	-	-	-	-
071604-BBDA3-1,2,3,4C	07/16/04	stockpile	-	-	-	-	-	-	-	-	-	350	**7.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
071604-BBDA-1,2,3,4D	07/16/04	stockpile	-	-	-	-	-	-	-	-	-	350	**23**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
072004-BBDA3-CRTE	07/20/04	stockpile	-	-	-	-	-	-	-	-	-	170	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS103(2)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	27	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS103(4)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	21	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS103(6)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	140	**7.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS104(2)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	150	**36**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS104(4)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	32	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS104(6)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	20	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS105(2)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	75	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS105(4)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	28	0.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS105(6)	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	8	< 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS103[2]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	45	**20**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS103[4]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	36	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS103[6]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	71	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS104[2]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	260	**6.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS104[4]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	33	< 1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS104[6]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	43	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS105[2]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	70	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS105[4]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	34	< 1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3SS105[6]	07/21/04	in-situ	-	-	-	-	-	-	-	-	-	12	< 1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
072304-C1,-C2,-C3,-C4	07/26/04	stockpile	-	-	-	-	7.3	120	-	-	-	610	**17**	-	-	97	-	-	-	-	-	-	2,400	-	-	-	-	-	-	-	-	-	-
080504-DA3-E(1-4)	08/05/04	stockpile	-	-	-	-	-	-	-	-	-	55	**6.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	-	-	-
080504-DA3-F(1-4)	08/05/04	stockpile	-	-	-	-	-	-	-	-	-	140	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	99**	-	-	-
082504-OX(1-4)	08/05/04	stockpile	-	-	-	-	-	-	-	-	-	15	0.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
082504-OX(5-8)	08/05/04	stockpile	-	-	-	-	-	-	-	-	-	15	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BB3EX109[0.5]	08/06/04	confirmation	<3.4	4.5	30	<0.11	<0.29	170	0.77	10	17	23	0.52	-	<1.1	31	-	<0.29	<0.29	<0.29	57	<0.5	52	-	-	-	-	-	ND	ND	-	-	-
BB3EX110[0.5]	08/06/04	confirmation	< 3.0	2.6	29	< 0.099	< 0.25	57	-	6.8	5.8	9.4	-	-	< 0.99	42		< 0.25	< 0.25	< 0.25	39	-	28	-	-	-	-	-	ND	ND	-	-	-
082504-T1	08/25/04	stockpile	-	-	-	-	-	-	-	-	-	98	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-
BB3EX121[0.5]	08/30/04	confirmation	< 3.0	3.0	13	0.17	< 0.25	27	-	3.5	2.6	1.5	-	-	< 0.99	18	-	< 0.25	< 0.25	< 0.25	26	-	12	-	-	-	-	-	ND	ND	-	-	-
090204-D1,D2,D3,D4	09/02/04	stockpile	-	-	-	-	-	-	-	-	-	8.2	< 0.50	< 0.50	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
BB3EX122[0.5]	09/14/04	confirmation	< 2.7	4.6	150	0.43	< 0.22	130	< 0.5	61	18	4.4	-	-	< 0.89	270	7.9	2.0	< 0.22	< 0.22	53	0.51	39	-	-	-	-	-	-	-	-	-	-
BB3EX123[0.5]	09/14/04	confirmation	< 2.1	2.7	8.8	0.11	< 0.17	46	-	5.1	3.0	1.4	-	-	< 0.69	22	-	1.1	< 0.17	< 0.17	43	-	14	-	-	-	-	-	ND	ND	-	-	-
BB3EX124[0.5]	09/14/04	confirmation	< 2.8	3.1	10	0.12	< 0.23	45	-	5.6	2.9	< 0.92	-	-	< 0.92	23	-	0.75	< 0.23	< 0.23	33	-	14	-	-	-	-	-	ND	ND	-	-	-
BB3EX125[0.5]	09/14/04	confirmation	< 2.8	2.5	13	0.11	< 0.23	42	-	5.0	3.0	1.4	-	-	< 0.94	20	-	0.85	< 0.23	< 0.23	34	-	13	-	-	-	-	-	ND	ND	-	-	-
BB3EX126[0.5]	09/14/04	confirmation	< 2.4	3.1	15	0.10	< 0.20	38	-	4.8	2.9	2.1	-	-	< 0.81	19	-	0.86	< 0.20	< 0.20	37	-	14	-	-	-	-	-	ND	ND	-	-	-
BB3EX127[0.5]	09/14/04	confirmation	< 2.8	3.2	17	0.11	< 0.23	41	-	4.9	3.8	2.5	-	-	< 0.92	20	-	0.88	< 0.23	< 0.23	36	-	16	-	-	-	-	-	ND	ND	-	-	-
092404 LB1,LB2,LB3,LB4	09/24/04	stockpile	-	-	-	-	< 0.50	42	-	-	-	20	-	-	-	30	-	-	-	-	-	-	40	-	< 1.0	7.6	55	140	64	-	ND	ND	ND
092404 DB1,DB2,DB3,DB4	09/24/04	stockpile	-	-	-	-	< 0.50	46	-	-	-	18	4.6	-	-	33	-	-	-	-	-	-	34	-	-	-	-	-	-	-	-	-	-
BB3EX134[0.5]	10/30/04	confirmation	< 2.4	2.8	16	0.12	< 0.20	29	-	4.3	2.9	2.0	-	-	< 0.81	17	-	0.41	< 0.20	< 0.20	31	-	14	-	-	-	-	-	-	-	-	-	-
1005004-01,02,03,04	10/05/04	stockpile	-	-	-	-	< 0.50	34	-	-	-	33	2.9	-	-	27	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-
BBDA 4																																	
072004-BBDA4-TP(1-4)	07/20/04	in-situ	< 2.0	3.3	31	< 0.50	< 0.50	25	-	5.2	13	62	3.9	-	< 1.0	23	-	< 2.0	< 1.0	< 1.0	30	-	61	0.056	-	-	-	-	-	-	-	-	-

Notes
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram
mg/L - milligrams per liter
µg/L - micrograms per liter
BTEX - benzene, toluene, ethylbenzene, and xylenes
PCBs - Polychlorinated biphenols
TCLP - Toxicity Characteristic Leaching Potential

TEPH - Total Extractable Petroleum Hydrocarbons
SVOCs - Semi-volatile organic compounds
VOCs - Volatile organic compounds
WET - Waste Extraction Test
NA - Not analyzed (multiple analytes)
" - " - Not analyzed (single analyte)
" -- " - No applicable waste criteria

ND - Not detected; reporting limits vary
OCPs - Organochlorine pesticides
Bold - Indicates an exceedance of state waste criteria
in-situ - Waste profile sample collected from a pot hole or test pit.
stockpile - 4-point composite sample collected from waste soil stockpile
confirmation - Confirmation sample results used for waste profile of over-excavated soil.

* Single detection in suite; value of single detection is shown.
** Multiple detections in suite; value of highest detection is shown.
1) Analytical results for soil samples collected from test pits at BBDA 3 in November 2003 were also used for waste characterization purposes. See Table 1 of *Technical Memorandum: Historical Battery Crosby Road and Lead Exploratory Test Pit Excavation Observation and Results* (Treadwell & Rollo, 2004e).

Table F-2
Submittal/Sample Delivery Group Index
Waste Characterization Data
Baker Beach Disturbed Areas 3 and 4
Presidio of San Francisco, California

Sample Number	Sample Date	Submittal or SDG Number
061404-BB3TP-112A,B,C,D	6/14/2004	PerfEx 1300-9A1
061404-BB3TP-113A,B,C,D	6/14/2004	PerfEx 1300-9A1
061404-BB3TP-114A,B,C,D	6/14/2004	PerfEx 1300-9A1
061404-BB3TP-115A,B,C,D	6/14/2004	PerfEx 1300-9A1
061404-BB3TP-116A,B,C,D	6/14/2004	PerfEx 1300-9A1
061404-BB3TP-117,118,119,120A	6/14/2004	PerfEx 1300-9A1
061404-BB3TP-117,118,119,120B	6/14/2004	PerfEx 1300-9A1
BB3SS100[1]	6/30/2004	C&T SDG173178
BB3SS101[1.5]	6/30/2004	C&T SDG173178
BB3SS102[1.5]	6/30/2004	C&T SDG173178
BB3SS100[2]	6/30/2004	C&T SDG173178
BB3SS101[2.5]	6/30/2004	C&T SDG173178
BB3SS102[2.5]	6/30/2004	C&T SDG173178
070704-A1,A2,A3,A4	7/7/2004	PerfEx 1300-7B
070704-B1,B2,B3,B4	7/7/2004	PerfEx 1300-7B
071604-BBDA3-1,2,3,4C	7/16/2004	PerfEx 1300-7C; PerfEx 1300-7D
071604-BBDA-1,2,3,4D	7/16/2004	PerfEx 1300-7C; PerfEx 1300-7D
072004-BBDA3-CRTE	7/20/2004	PerfEx 2004-07-0641 (RFI 10)
072004-BBDA4-TP(1-4)	7/20/2004	PerfEx 1300-9A2
BB3SS103(2)	7/21/2004	PerfEx 2004-07-0643
BB3SS103(4)	7/21/2004	PerfEx 2004-07-0643
BB3SS103(6)	7/21/2004	PerfEx 2004-07-0643
BB3SS104(2)	7/21/2004	PerfEx 2004-07-0643
BB3SS104(4)	7/21/2004	PerfEx 2004-07-0643
BB3SS104(6)	7/21/2004	PerfEx 2004-07-0643
BB3SS105(2)	7/21/2004	PerfEx 2004-07-0643
BB3SS105(4)	7/21/2004	PerfEx 2004-07-0643
BB3SS105(6)	7/21/2004	PerfEx 2004-07-0643
BB3SS103[2]	7/21/2004	C&T SDG173572
BB3SS103[4]	7/21/2004	C&T SDG173572
BB3SS103[6]	7/21/2004	C&T SDG173572
BB3SS104[2]	7/21/2004	C&T SDG173572
BB3SS104[4]	7/21/2004	C&T SDG173572
BB3SS104[6]	7/21/2004	C&T SDG173572
BB3SS105[2]	7/21/2004	C&T SDG173572
BB3SS105[4]	7/21/2004	C&T SDG173572
BB3SS105[6]	7/21/2004	C&T SDG173572
072304-C1,-C2,-C3,-C4	7/26/2004	PerfEx 2004-07-0769
080504-DA3-E(1-4)	8/5/2004	PerfEx 1300-7E-A
080504-DA3-F(1-4)	8/5/2004	PerfEx 1300-7E-A
082504-OX(1-4)	8/5/2004	PerfEx 1300-7F-A
082504-OX(5-8)	8/5/2004	PerfEx 1300-7F-A
BB3EX109[0.5]	8/6/2004	PerfEx 7I; C&T SDG173875
BB3EX110[0.5]	8/6/2004	PerfEx 7I; C&T SDG173875
082504-T1	8/25/2004	PerfEx 1300-7F-B
BB3EX121[0.5]	8/30/2004	C&T SDG174320
090204-D1,D2,D3,D4	9/2/2004	PerfEx 1300-7E-B
BB3EX122[0.5]	9/14/2004	PerfEx 1300-7G; C&T SDG174631
BB3EX123[0.5]	9/14/2004	C&T SDG174631
BB3EX124[0.5]	9/14/2004	C&T SDG174631
BB3EX125[0.5]	9/14/2004	C&T SDG174631
BB3EX126[0.5]	9/14/2004	C&T SDG174631
BB3EX127[0.5]	9/14/2004	C&T SDG174631
092404 LB1,LB2,LB3,LB4	9/24/2004	PerfEx 1300-H
092404 DB1,DB2,DB3,DB4	9/24/2004	PerfEx 1300-H
BB3EX134[0.5]	10/30/2004	C&T SDG175037
1005004-01,02,03,04	10/5/2004	PerfEx 1300-7J

Contractor's Submittal No. 1300-9A1

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☑ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☑ ~~Product~~ Data/Samples Analytical ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
- Results of Test Pit Sampling (6/14/04) For Discussion	2	–	–
- Sketch of Approximate Test Pit Loc.	2	–	–

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

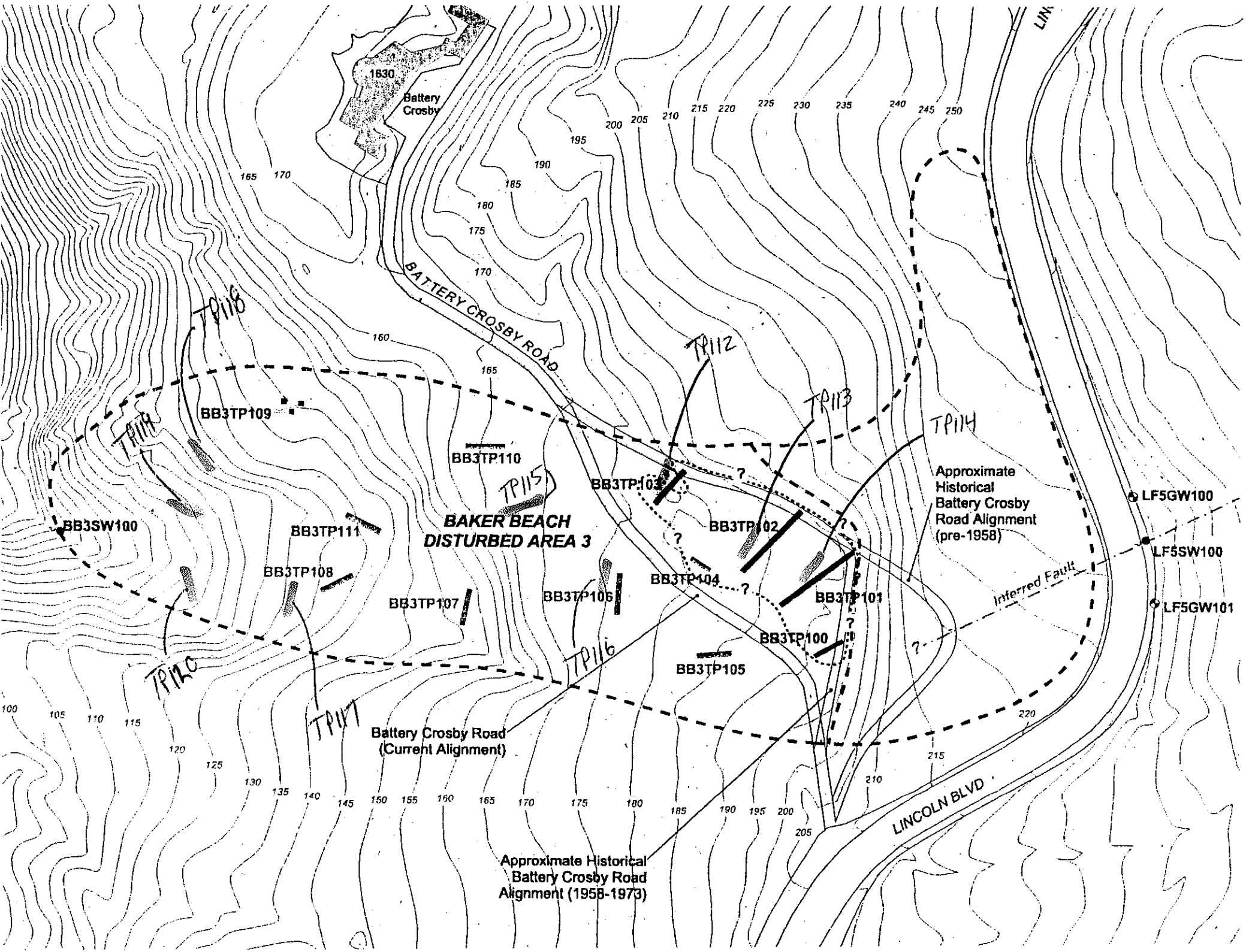
Signature: [signature] Date: 6/22/04
Printed Name: Craig Rainey

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust	✓				
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: [signature] Date: 6/22/04
Printed Name: Jennifer A Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	


1630
Battery Crosby
BATTERY CROSBY ROAD
BAKER BEACH DISTURBED AREA 3
BB3TP109
BB3TP110
BB3TP111
BB3TP108
BB3TP107
BB3TP106
BB3TP105
BB3TP104
BB3TP103
BB3TP102
BB3TP101
BB3TP100
BB3SW100
TP118
TP119
TP120
TP117
TP116
TP115
TP112
TP113
TP114
Approximate Historical Battery Crosby Road Alignment (pre-1958)
LF5GW100
LF5SW100
LF5GW101
Inferred Fault
Battery Crosby Road (Current Alignment)
Approximate Historical Battery Crosby Road Alignment (1958-1973)
LINCOLN BLVD

SEVERN TRENT STL

Submission#: 2004-06-0477

Performance Excavators, Inc.

June 22, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Greg Rainey

Project#: 408
Project: Presidio-Baker Beach DA3

Dear Greg,

Attached is our report for your samples received on 06/15/2004 14:55
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/30/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission #: 2004-06-0477

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
061404-BB3TP-112A,B,C,D	06/14/2004 11:25	Soil	1
061404-BB3TP-113A,B,C,D	06/14/2004 11:30	Soil	2
061404-BB3TP-114A,B,C,D	06/14/2004 11:35	Soil	3
061404-BB3TP-115A,B,C,D	06/14/2004 11:45	Soil	4
061404-BB3TP-116A,B,C,117D	06/14/2004 12:25	Soil	5
061404-BB3TP-117,118,119,120A	06/14/2004 12:35	Soil	6
061404-BB3TP-117,118,119,120B	06/14/2004 12:35	Soil	7

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**061404-BB3TP-112A,B,C,D**	Lab ID:	2004-06-0477 - 1
Sampled:	06/14/2004 11:25	Extracted:	6/16/2004 11:26
Matrix:	Soil	QC Batch#:	2004/06/16-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	61	1.0	mg/Kg	1.00	06/16/2004 21:40	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**061404-BB3TP-113A,B,C,D**	Lab ID:	2004-06-0477 - 2
Sampled:	06/14/2004 11:30	Extracted:	6/16/2004 11:26
Matrix:	Soil	QC Batch#:	2004/06/16-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	120	1.0	mg/Kg	1.00	06/16/2004 21:43	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**061404-BB3TP-114A,B,C,D**	Lab ID:	2004-06-0477 - 3
Sampled:	06/14/2004 11:35	Extracted:	6/16/2004 11:26
Matrix:	Soil	QC Batch#:	2004/06/16-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	140	1.0	mg/Kg	1.00	06/16/2004 21:47	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**061404-BB3TP-115A,B,C,D**	Lab ID:	2004-06-0477 - 4
Sampled:	06/14/2004 11:45	Extracted:	6/16/2004 11:26
Matrix:	Soil	QC Batch#:	2004/06/16-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	83	1.0	mg/Kg	1.00	06/16/2004 21:50	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**061404-BB3TP-116A,B,C,117D**	Lab ID:	2004-06-0477 - 5
Sampled:	06/14/2004 12:25	Extracted:	6/16/2004 11:26
Matrix:	Soil	QC Batch#:	2004/06/16-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	51	1.0	mg/Kg	1.00	06/16/2004 21:54	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**061404-BB3TP-117,118,119,120A**	Lab ID:	2004-06-0477 - 6
Sampled:	06/14/2004 12:35	Extracted:	6/16/2004 11:26
Matrix:	Soil	QC Batch#:	2004/06/16-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	1400	1.0	mg/Kg	1.00	06/16/2004 21:57	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**061404-BB3TP-117,118,119,120B**	Lab ID:	2004-06-0477 - 7
Sampled:	06/14/2004 12:35	Extracted:	6/16/2004 11:26
Matrix:	Soil	QC Batch#:	2004/06/16-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	230	1.0	mg/Kg	1.00	06/16/2004 22:01	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/06/16-02.15**

MB: 2004/06/16-02.15-098 — Date Extracted: 06/16/2004 11:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	06/16/2004 20:44	

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/06/16-02.15**

LCS 2004/06/16-02.15-099 Extracted: 06/16/2004 Analyzed: 06/16/2004 20:48

LCSD 2004/06/16-02.15-100 Extracted: 06/16/2004 Analyzed: 06/16/2004 20:53

Compound	Conc.	mg/Kg	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	97.9	96.9	100.0	97.9	96.9	1.0	80-120	20		

SEVERN TRENT STL

Submission #: 2004-06-0477

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
061404-BB3TP-112A,B,C,D	06/14/2004 11:25	Soil	1
061404-BB3TP-113A,B,C,D	06/14/2004 11:30	Soil	2
061404-BB3TP-114A,B,C,D	06/14/2004 11:35	Soil	3
061404-BB3TP-115A,B,C,D	06/14/2004 11:45	Soil	4
061404-BB3TP-116A,B,C,117D	06/14/2004 12:25	Soil	5
061404-BB3TP-117,118,119,120A	06/14/2004 12:35	Soil	6
061404-BB3TP-117,118,119,120B	06/14/2004 12:35	Soil	7

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**061404-BB3TP-112A,B,C,D**	Lab ID:	2004-06-0477 - 1
Sampled:	06/14/2004 11:25	Extracted:	6/17/2004 17:53
Matrix:	Soil	QC Batch#:	2004/06/17-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.6	0.50	mg/L	1.00	06/18/2004 07:03	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**061404-BB3TP-113A,B,C,D**	Lab ID:	2004-06-0477 - 2
Sampled:	06/14/2004 11:30	Extracted:	6/17/2004 17:53
Matrix:	Soil	QC Batch#:	2004/06/17-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.4	0.50	mg/L	1.00	06/18/2004 07:07	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**061404-BB3TP-114A,B,C,D**	Lab ID:	2004-06-0477 - 3
Sampled:	06/14/2004 11:35	Extracted:	6/17/2004 17:53
Matrix:	Soil	QC Batch#:	2004/06/17-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	9.5	0.50	mg/L	1.00	06/18/2004 07:12	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**061404-BB3TP-115A,B,C,D**	Lab ID:	2004-06-0477 - 4
Sampled:	06/14/2004 11:45	Extracted:	6/17/2004 17:53
Matrix:	Soil	QC Batch#:	2004/06/17-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.9	0.50	mg/L	1.00	06/18/2004 07:17	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**061404-BB3TP-116A,B,C,117D**	Lab ID:	2004-06-0477 - 5
Sampled:	06/14/2004 12:25	Extracted:	6/17/2004 17:53
Matrix:	Soil	QC Batch#:	2004/06/17-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.8	0.50	mg/L	1.00	06/18/2004 07:34	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**061404-BB3TP-117,118,119,120A**	Lab ID:	2004-06-0477 - 6
Sampled:	06/14/2004 12:35	Extracted:	6/17/2004 17:53
Matrix:	Soil	QC Batch#:	2004/06/17-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	13	0.50	mg/L	1.00	06/18/2004 07:39	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**061404-BB3TP-117,118,119,120B**	Lab ID:	2004-06-0477 - 7
Sampled:	06/14/2004 12:35	Extracted:	6/17/2004 17:53
Matrix:	Soil	QC Batch#:	2004/06/17-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	51	0.50	mg/L	1.00	06/18/2004 07:44	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Batch QC Report

Prep(s): 3005A — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/06/17-07.15**

MB: 2004/06/17-07.15-011 — Date Extracted: 06/17/2004 17:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	06/18/2004 06:34	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio-Baker Beach DA3

Received: 06/15/2004 14:55

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/06/17-07.15**

LCS 2004/06/17-07.15-012 Extracted: 06/17/2004 Analyzed: 06/18/2004 06:39

LCSD 2004/06/17-07.15-013 Extracted: 06/17/2004 Analyzed: 06/18/2004 06:43

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.86	4.89	5.00	97.2	97.8	0.6	80-120	20		

STL

STL San Francisco

Sample Receipt Checklist

Submission #:2004- 06 - 0477

Checklist completed by: (initials) MV Date: 06/15/04

Courier name: ☐ STL San Francisco ☐ Client FBC

Custody seals intact on shipping container/samples	Yes____	No____	Not Present ✓
Chain of custody present?		Yes ✓	No____
Chain of custody signed when relinquished and received?		Yes ✓	No ✓
Chain of custody agrees with sample labels?		Yes ✓	No____
Samples in proper container/bottle?		Yes ✓	No____
Sample containers intact?		Yes ✓	No____
Sufficient sample volume for indicated test?		Yes ✓	No____
All samples received within holding time?		Yes ✓	No____
Container/Temp Blank temperature in compliance (4° C ± 2)?	Temp: 6 °C	Yes ✓	No____
	Ice Present	Yes ✓	No____
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes____	No____

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O)

Water - pH acceptable upon receipt? ☐ Yes ☐ No Soil

☐ pH adjusted– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: SAMPLE # 5 NO SAMPLE ID# 061404-BBSTP-117D. ~~ONE~~ MV
EXTRA SAMPLE ID# 061404-BBSTP-116D, LOGGED AS SAMPLE # 5

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/04

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

EVERN TRENT SERVICES

2004-06-0477

STL San Francisco

Chain of Custody

[illegible] Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 86888

Date 6/14/04 Page 1 of 4

Report To

Attn. GREG RAWLEY
Company PERFORMANCE EXC.
Address 103 SHORELINE PARKWAY
Phone 415-257-4640 Email GREG@PERF-EX.COM
Bill To SAME
Sampled By: G. RAWLEY
Attn: MARSHA DOWDY
Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: (Lead) ☐ LUFT ☐ RCRA ☐ Other	W.E.T (STLC) LEAD ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity TSS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 COMPOSITE				Number of Containers
061404-BB3TP-112A	6/14/04	11:25	SOIL	ICE												X	X				X				1
061404-BB3TP-112B																X	X				X				1
061404-BB3TP-112C																X	X				X				1
061404-BB3TP-112D																X	X				X				1
061404-BB3TP-113A		11:30														X	X				X				1
061404-BB3TP-113B																X	X				X				1
061404-BB3TP-113C																X	X				X				1
061404-BB3TP-113D																X	X				X				1

Project Info.

Project Name: PRESIDIO - BAKER BEACH DAB
Project#: 408
PO#:
Credit Card#:

Sample Receipt

# of Containers:
Head Space:
Temp: 6.0
Conforms to record:

TAT: Std 5 Day (circled) | 72h | 48h | 24h | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:

TTLC LEAD AND STLC LEAD DUE TUESDAY, 6/22/04.
COMPOSITE AS INDICATED

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time:	Signature: [signature] Time: 1455	Signature: Time:
Printed Name: GREG RAWLEY Date: 6/15/04	Printed Name: Date: 6/15/04	Printed Name: Date:
Company: PEI	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1200	Signature: [signature] Time: 1455	Signature: Time:
Printed Name: Date: 6/15/04	Printed Name: J Mefford Date: 6/15/04	Printed Name: Date:
Company:	Company: STL-SF	Company:

Rev 03/97

2004-06-0477

VERN RENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference # 86888

Date 6/14/04 Page 2 of 4

Report To

Attn: Greg Rainey
Company: Performance Exc.
Address: 103 Shoreline Parkway
Phone: 415-257-4640 Email: Greg@Perf-Ex.com
Bill To: Same
Sampled By: G. Rainey
Attn: Marsha Dowdy
Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B) ☐ DCA, EDB Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 601/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8250B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides (EPA 8081) PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals (Lead) ☐ LUFT ☐ RCRA ☐ Other	WET (STLC) LEAD TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. TSS ☐ Alkalinity ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ F ☐ Br ☐ NO_3 ☐ PO_4	4:1 Composite				Number of Containers
061404-BB3TP-114A	6/14/04	11:35	Soil	Ice												X	X				X				1
061404-BB3TP-114B																X	X				X				1
061404-BB3TP-114C																X	X				X				1
061404-BB3TP-114D																X	X				X				1
061404-BB3TP-115A		11:45														X	X				X				1
061404-BB3TP-115B																X	X				X				1
061404-BB3TP-115C																X	X				X				1
061404-BB3TP-115D																X	X				X				1

Project Info.

Project Name: Presidio Baker Beach DAB
Project#: 408
PO#:
Credit Card#:

Sample Receipt

# of Containers:
Head Space:
Temp: 6.0
Conforms to record:

Std 5 Day | 72h | 48h | 24h
Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:

TTLC LEAD AND STLC LEAD DUE TUESDAY, 6/22/04.
COMPOSITE AS FINISHED

1) Relinquished by:	2) Relinquished by:	3) Relinquished by
Signature: [signature] Time:	Signature: [signature] Time: 1455	Signature: Time:
Printed Name: Greg Rainey Date: 6/15/04	Printed Name: Date: 6/15/04	Printed Name: Date:
Company: PEI	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1200	Signature: [signature] Time: 1455	Signature: Time:
Printed Name: Date: 6/15/04	Printed Name: J. Mefford Date: 6/15/04	Printed Name: Date:
Company:	Company: STL-SF	Company:

2004-06-0477

STL San Francisco
Chain of Custody

2 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference # 86888

Date 6/14/04 Page 3 of 4

Report To

Attn: Greg Rawley
Company: Performance Inc.
Address: 103 Shackelford Parkway
Phone: 415-257-4640 Email: Greg@Perf-Inc.com

Bill To: Same
Attn: Marsha Dowdy
Sampled By: G. Rawley
Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260) ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260/8240/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides (EPA 8081) PCBs (EPA 8082) ☐ ☐	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals (Lead) ☐ LUFT ☐ RCRA ☐ Other	WET (STLC) TCLP ☐ ☐	Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐	Spec Cond ☐ Alkalinity TSS ☐ TDS ☐	Anions ☐ ☐ SO_4 ☐ NO_3 ☐ F ☐ ☐ Br ☐ NO_2 ☐ PO_4	4:1 Composite				Number of Containers
061404-BB3TP-116A	6/14/04	12:25	Soil	Ice												X	X				X				1
061404-BB3TP-116B																X	X				X				1
061404-BB3TP-116C																X	X				X				1
061404-BB3TP-117D																X	X				X				1
061404-BB3TP-117A		12:35														X	X				X				1
061404-BB3TP-118A		12:37														X	X				X				1
061404-BB3TP-119A		12:39														X	X				X				1
061404-BB3TP-120A		12:42														X	X				X				1

Project Info.

Project Name: Presidio Baker Beach DAB
Project#: 408
PO#:
Credit Card#:

Sample Receipt

# of Containers:
Head Space:
Temp: 6.0
Conforms to record:

Std 5 Day | 72h | 48h | 24h
Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:
TTLC LEAD AND STLC LEAD DUE TUESDAY, 6/22/04.
COMPOSITE AS INDICATED

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time	Signature: Steve 1455 Time	Signature Time
Printed Name: Greg Rawley Date: 6/15/04	Printed Name: 6/15/04 Date	Printed Name Date
Company: PEI	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature: Steve 1200 Time	Signature: [signature] 1455 Time	Signature Time
Printed Name: 6/15/04 Date	Printed Name: J Meffold 6/15/04 Date	Printed Name Date
Company	Company: STL-SF	Company

Rev 08/02

EVERN TRENT SERVICES

2004-06-0477

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 86888

Date 6/14/04 Page 4 of 4

Report To

Attn: Craig Ramsey
Company: Performance Excavators
Address: 103 Shoreline Parkway
Phone: 415-257-4640 Email: craig@performex.com
Bill To:
Sampled By:
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260) ☐ DCA, EDB ☐ Fuel Oxygenates Tert ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GCMS (VOCs) (EPA 8260A/8260B)	Semivolatiles GCMS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: Lead ☐ LUFT ☐ RCRA ☐ Other	W.E.T (STLC) Lead ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond ☐ Alkalinity TSS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 Composite				Number of Containers
061404-BB3TP-117B	6/14/04	12:35	Soil	Ice												X	X			X					1
061404-BB3TP-118B		12:37														X	X			X					1
061404-BB3TP-119B		12:39														X	X			X					1
061404-BB3TP-120B		12:42														X	X			X					1

Project Info.

Project Name: Presidio - Baker Beach DAS
Project#: 408
PO#:
Credit Card#:

Sample Receipt

# of Containers:
Head Space:
Temp: 6.0
Conforms to record:

TAT: Std 5 Day | 72h | 48h | 24h
Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:
TTLC Lead and STLC Lead due June 22/04
Composite As Indicated

1) Relinquished by:	2) Relinquished by:	3) Relinquished by
Signature: [signature] Time:	Signature: [signature] Time: 1455	Signature: Time:
Printed Name: Craig Ramsey Date: 6/15/04	Printed Name: Date: 6/15/04	Printed Name: Date:
Company: PEI	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1200	Signature: [signature] Time: 1455	Signature: Time:
Printed Name: Date: 6/15/04	Printed Name: J Mefford Date: 6/15/04	Printed Name: Date:
Company:	Company: STL-SF	Company:

Rev 11/02

chest

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3SS100[1]	Batch#:	92485
Lab ID:	173178-001	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	ug/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	5.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	8.6
beta-BHC	ND	8.6
gamma-BHC	ND	8.6
delta-BHC	ND	8.6
Heptachlor	ND	8.6
Aldrin	ND	8.6
Heptachlor epoxide	ND	8.6
Endosulfan I	ND	8.6
Dieldrin	ND	17
4,4'-DDE	ND	17
Endrin	ND	17
Endosulfan II	ND	17
Endosulfan sulfate	ND	17
4,4'-DDD	ND	17
Endrin ketone	ND	17
4,4'-DDT	ND	17
Chlordane (Technical)	ND	150
alpha-Chlordane	ND	8.6
gamma-Chlordane	ND	8.6
Methoxychlor	ND	86
Toxaphene	ND	300

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	77	65-135

ND= Not Detected
RL= Reporting Limit

5.0

Sand

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3SS100[2]	Batch#:	92485
Lab ID:	173178-002	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	ug/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	81	65-135
Decachlorobiphenyl	77	65-135

ND= Not Detected
RL= Reporting Limit

6.0

chert

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3SS101[1.5]	Batch#:	92485
Lab ID:	173178-003	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	ug/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	73	65-135
Decachlorobiphenyl	74	65-135

ND= Not Detected
RL= Reporting Limit

7.0

Sand

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3SS101[2.5]	Batch#:	92485
Lab ID:	173178-004	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	ug/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	79	65-135
Decachlorobiphenyl	77	65-135

ND= Not Detected
RL= Reporting Limit

8.0

chert

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3SS102[1.5]	Batch#:	92485
Lab ID:	173178-005	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	ug/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	2.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	3.3
beta-BHC	ND	3.3
gamma-BHC	ND	3.3
delta-BHC	ND	3.3
Heptachlor	ND	3.3
Aldrin	ND	3.3
Heptachlor epoxide	ND	3.3
Endosulfan I	ND	3.3
Dieldrin	ND	6.5
4,4'-DDE	ND	6.5
Endrin	ND	6.5
Endosulfan II	ND	6.5
Endosulfan sulfate	ND	6.5
4,4'-DDD	ND	6.5
Endrin ketone	ND	6.5
4,4'-DDT	6.6	6.5
Chlordane (Technical)	ND	59
alpha-Chlordane	ND	3.3
gamma-Chlordane	ND	3.3
Methoxychlor	ND	33
Toxaphene	ND	120

Surrogate	%REC	Limits
TCMX	75	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit

9.0

sand

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3SS102[2.5]	Batch#:	92485
Lab ID:	173178-006	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	ug/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	71	65-135
Decachlorobiphenyl	67	65-135

ND= Not Detected
RL= Reporting Limit

10.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Organochlorine Pesticides

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256276	Batch#:	92485
Matrix:	Soil	Prepared:	07/01/04
Units:	ug/Kg	Analyzed:	07/01/04
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	59

Surrogate	%REC	Limits
TCMX	69	65-135
Decachlorobiphenyl	81	65-135

ND= Not Detected
RL= Reporting Limit

11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/30/04
Units:	ug/Kg	Received:	07/01/04
Basis:	as received	Prepared:	07/02/04
Diln Fac:	1.000	Analyzed:	07/03/04
Batch#:	92511		

Field ID: BB3SS100[1] chert
Type: SAMPLE
Lab ID: 173178-001
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	ND	9.7
Aroclor-1260	31	9.7

Surrogate	%REC	Limits
TCMX	120	65-135
Decachlorobiphenyl	108	65-135

Field ID: BB3SS100[2] sand
Type: SAMPLE
Lab ID: 173178-002
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	ND	9.7
Aroclor-1260	ND	9.7

Surrogate	%REC	Limits
TCMX	104	65-135
Decachlorobiphenyl	116	65-135

Field ID: BB3SS101[1.5] chert
Type: SAMPLE
Lab ID: 173178-003
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	128	65-135
Decachlorobiphenyl	125	65-135

ND= Not Detected
RL= Reporting Limit

2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/30/04
Units:	ug/Kg	Received:	07/01/04
Basis:	as received	Prepared:	07/02/04
Diln Fac:	1.000	Analyzed:	07/03/04
Batch#:	92511		

Field ID: BB3SS101[2.5] Sand
Type: SAMPLE
Lab ID: 173178-004
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.7
Aroclor-1221	ND	19
Aroclor-1232	ND	9.7
Aroclor-1242	ND	9.7
Aroclor-1248	ND	9.7
Aroclor-1254	ND	9.7
Aroclor-1260	ND	9.7

Surrogate	%REC	Limits
TCMX	103	65-135
Decachlorobiphenyl	121	65-135

Field ID: BB3SS102[1.5] chert
Type: SAMPLE
Lab ID: 173178-005
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	ND	9.6
Aroclor-1260	ND	9.6

Surrogate	%REC	Limits
TCMX	108	65-135
Decachlorobiphenyl	108	65-135

Field ID: BB3SS102[2.5] Sand
Type: SAMPLE
Lab ID: 173178-006
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	117	65-135
Decachlorobiphenyl	119	65-135

ND= Not Detected
RL= Reporting Limit

2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	06/30/04
Units:	ug/Kg	Received:	07/01/04
Basis:	as received	Prepared:	07/02/04
Diln Fac:	1.000	Analyzed:	07/03/04
Batch#:	92511		

Type: BLANK
Lab ID: QC256384
Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	108	65-135
Decachlorobiphenyl	128	65-135

ND= Not Detected
RL= Reporting Limit

2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Chrt

California Title 26 Metals

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3SS100[1]	Batch#:	92496
Lab ID:	173178-001	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	mg/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	2.7	0.25
Barium	270	0.50
Beryllium	0.47	0.10
Cadmium	ND	0.25
Chromium	22	0.50
Cobalt	22	1.0
Copper	120	0.50
Lead	20	0.15
Molybdenum	ND	1.0
Nickel	20	1.0
Selenium	1.0	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	41	0.50
Zinc	33	1.0

ND= Not Detected
RL= Reporting Limit

13.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Sand

California Title 26 Metals

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3SS100[2]	Batch#:	92496
Lab ID:	173178-002	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	mg/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Analyte	Result	RL
Antimony	ND	2.5
Arsenic	3.0	0.21
Barium	19	0.42
Beryllium	0.094	0.085
Cadmium	ND	0.21
Chromium	35	0.42
Cobalt	5.5	0.85
Copper	5.4	0.42
Lead	5.4	0.13
Molybdenum	ND	0.85
Nickel	20	0.85
Selenium	0.45	0.21
Silver	ND	0.21
Thallium	ND	0.21
Vanadium	36	0.42
Zinc	19	0.85

ND= Not Detected
RL= Reporting Limit

14.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Chet

California Title 26 Metals

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3SS101[1.5]	Batch#:	92496
Lab ID:	173178-003	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	mg/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Analyte	Result	RL
Antimony	ND	2.3
Arsenic	1.4	0.19
Barium	280	0.38
Beryllium	0.62	0.077
Cadmium	ND	0.19
Chromium	15	0.38
Cobalt	13	0.77
Copper	120	0.38
Lead	8.8	0.12
Molybdenum	ND	0.77
Nickel	18	0.77
Selenium	0.80	0.19
Silver	ND	0.19
Thallium	ND	0.19
Vanadium	29	0.38
Zinc	28	0.77

ND= Not Detected
RL= Reporting Limit

15.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Soil

California Title 26 Metals

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3SS101[2.5]	Batch#:	92496
Lab ID:	173178-004	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	mg/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Analyte	Result	RL
Antimony	ND	2.5
Arsenic	2.1	0.21
Barium	15	0.42
Beryllium	0.10	0.084
Cadmium	ND	0.21
Chromium	32	0.42
Cobalt	3.9	0.84
Copper	5.0	0.42
Lead	1.7	0.13
Molybdenum	ND	0.84
Nickel	14	0.84
Selenium	0.26	0.21
Silver	ND	0.21
Thallium	ND	0.21
Vanadium	25	0.42
Zinc	12	0.84

ND= Not Detected
RL= Reporting Limit

16.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

chrt

California Title 26 Metals

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3SS102[1.5]	Batch#:	92496
Lab ID:	173178-005	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	mg/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Analyte	Result	RL
Antimony	ND	3.2
Arsenic	1.4	0.27
Barium	280	0.53
Beryllium	0.43	0.11
Cadmium	ND	0.27
Chromium	16	0.53
Cobalt	9.6	1.1
Copper	81	0.53
Lead	19	0.16
Molybdenum	ND	1.1
Nickel	24	1.1
Selenium	0.58	0.27
Silver	ND	0.27
Thallium	ND	0.27
Vanadium	27	0.53
Zinc	47	1.1

ND= Not Detected
RL= Reporting Limit

17.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Send

California Title 26 Metals

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3SS102[2.5]	Batch#:	92496
Lab ID:	173178-006	Sampled:	06/30/04
Matrix:	Soil	Received:	07/01/04
Units:	mg/Kg	Prepared:	07/01/04
Basis:	as received	Analyzed:	07/02/04
Diln Fac:	1.000		

Analyte	Result	RL
Antimony	ND	3.2
Arsenic	2.7	0.26
Barium	16	0.53
Beryllium	0.11	0.11
Cadmium	ND	0.26
Chromium	37	0.53
Cobalt	4.7	1.1
Copper	4.3	0.53
Lead	2.6	0.16
Molybdenum	ND	1.1
Nickel	19	1.1
Selenium	0.38	0.26
Silver	ND	0.26
Thallium	ND	0.26
Vanadium	32	0.53
Zinc	15	1.1

ND= Not Detected
RL= Reporting Limit

18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

California Title 26 Metals

Lab #:	173178	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256325	Batch#:	92496
Matrix:	Soil	Prepared:	07/01/04
Units:	mg/Kg	Analyzed:	07/02/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

19.1

Contractor's Submittal No. 130-78

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☒ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
TTLC & STLC Results from Stockpiles A & B (samples taken 7/7/04)	3	130-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: _____ Date: 7/12/04
Printed Name: Frank P. Cangelosi

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust					
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: _____ Date: _____
Printed Name: _____

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

SEVERN TRENT STL

Submission#: 2004-07-0153

Performance Excavators, Inc.

July 12, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Frank Cannizzaro

Project#: 408
Project: Baker Beach Areas 3 & 4

Dear Mr. Cannizzaro,

Attached is our report for your samples received on 07/07/2004 17:10
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/21/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-07-0153

LUFT 5 Metals

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
070704-A1,A2,A3,A4	07/07/2004	Soil	1
070704-B1,B2,B3,B4	07/07/2004	Soil	2

SEVERN TRENT STL

Submission: 2004-07-0153

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**070704-A1,A2,A3,A4**	Lab ID:	2004-07-0153 - 1
Sampled:	07/07/2004	Extracted:	7/8/2004 04:55
Matrix:	Soil	QC Batch#:	2004/07/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	1.00	07/08/2004 09:44	
Chromium	90	1.0	mg/Kg	1.00	07/08/2004 09:44	
Lead	100	1.0	mg/Kg	1.00	07/08/2004 09:44	
Nickel	120	1.0	mg/Kg	1.00	07/08/2004 09:44	
Zinc	140	1.0	mg/Kg	1.00	07/08/2004 09:44	

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**070704-B1,B2,B3,B4**	Lab ID:	2004-07-0153 - 2
Sampled:	07/07/2004	Extracted:	7/8/2004 04:55
Matrix:	Soil	QC Batch#:	2004/07/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	0.87	0.50	mg/Kg	1.00	07/08/2004 09:48	
Chromium	78	1.0	mg/Kg	1.00	07/08/2004 09:48	
Lead	1600	1.0	mg/Kg	1.00	07/08/2004 09:48	
Nickel	100	1.0	mg/Kg	1.00	07/08/2004 09:48	
Zinc	13000	10	mg/Kg	10.00	07/09/2004 07:39	

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/08-01.15**

MB: 2004/07/08-01.15-019 — Date Extracted: 07/08/2004 04:55

Compound	Conc.	RL	Unit	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	07/08/2004 08:54	
Chromium	ND	1.0	mg/Kg	07/08/2004 08:54	
Lead	ND	1.0	mg/Kg	07/08/2004 08:54	
Nickel	ND	1.0	mg/Kg	07/08/2004 08:54	
Zinc	ND	1.0	mg/Kg	07/08/2004 08:54	

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/08-01.15**

LCS 2004/07/08-01.15-020 Extracted: 07/08/2004 Analyzed: 07/08/2004 08:58
LCSD 2004/07/08-01.15-023 Extracted: 07/08/2004 Analyzed: 07/08/2004 09:20

Compound	Conc.	mg/Kg	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Cadmium	95.5	97.7	100.0	95.5	97.7	2.3	80-120	20		
Chromium	96.1	98.1	100.0	96.1	98.1	2.1	80-120	20		
Lead	95.1	98.7	100.0	95.1	98.7	3.7	80-120	20		
Nickel	95.7	97.7	100.0	95.7	97.7	2.1	80-120	20		
Zinc	94.1	96.2	100.0	94.1	96.2	2.2	80-120	20		

SEVERN TRENT STL

Submission: 2004-07-0153

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
070704-A1,A2,A3,A4	07/07/2004	Soil	1
070704-B1,B2,B3,B4	07/07/2004	Soil	2

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**070704-A1,A2,A3,A4**	Lab ID:	2004-07-0153 - 1
Sampled:	07/07/2004	Extracted:	7/9/2004 18:19
Matrix:	Soil	QC Batch#:	2004/07/09-06.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	9.0	0.50	mg/L	1.00	07/12/2004 07:04	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**070704-B1,B2,B3,B4**	Lab ID:	2004-07-0153 - 2
Sampled:	07/07/2004	Extracted:	7/9/2004 18:19
Matrix:	Soil	QC Batch#:	2004/07/09-06.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.7	0.50	mg/L	1.00	07/12/2004 07:08	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Batch QC Report

Prep(s): 3005A — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/09-06.15**

MB: 2004/07/09-06.15-011 — Date Extracted: 07/09/2004 18:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	07/12/2004 06:36	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 07/07/2004 17:10

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/09-06.15**

LCS 2004/07/09-06.15-012 Extracted: 07/09/2004 Analyzed: 07/12/2004 06:41
LCSD 2004/07/09-06.15-013 Extracted: 07/09/2004 Analyzed: 07/12/2004 06:45

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	5.55	5.48	5.00	111.0	109.6	1.3	80-120	20		

Performance Excavators Inc. 103 Shoreline Pkwy, 201, San Rafael, CA 94901
Phone: (415) 257-4640 • Fax: (415) 257-4644

Reference #: 87519

2004-07-0153

Date 7/9/04 Page 1 of 1

Report To

Attn: Frank Cannizzaro

Company: Performance Excavators Inc.

Address: 103 Shoreline Pkwy, 2nd Floor, San Rafael, Ca 94901

Phone: 415-257-4640 Email: frank@perf-ex.com

Bill To: Same as above. Sampled By: Dave

Attn: Phone:

Analysis Request

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☒ LUFT ☐ RCRA ☐ Other: ___	☒ W.E.T (STLC) LEAD ☐ TCLP ☐	Hexavalent Chromium ☐ pH (24h hold time for H_2O) ☐	Spec Cond. ☐ Alkalinity ☐ TDS ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 COMPOSITE				Number of Containers
070704-A1, -A2, -A3, -A4	7/7/04		S													X	X				X				4
070704-B1, -B2, -B3, -B4	7/7/04		S													X	X				X				4
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						

RUSH

Project Info.

Project Name: Baker Beach Areas 3 & 4

Project#: 408

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 6°C

Conforms to record:

Other:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ___

Special Instructions / Comments:

E-mail results to frank@perf-ex.com

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 3:15	Signature: [signature] Time: 17:10	Signature: Time:
Printed Name: Frank P. Cannizzaro Date: 7/7/04	Printed Name: R Allen Date: 7/7/04	Printed Name: Date:
Company: Performance Excavators Inc.	Company: STL-SF	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: Rodney Allen Time: 15:15	Signature: [signature] Time: 17:10	Signature: Time:
Printed Name: R Allen Date: 7/7/04	Printed Name: T. Bullock Date: 7/7/04	Printed Name: Date:
Company: STL-SF	Company: STL-SF	Company:

Rev 01/02

Contractor's Submittal No. 1300-7C

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☒ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
Stockpile tests on 7/16/04 TTLC & STLC	3	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: _____ Date: 7/16/04
Printed Name: FRANK P. CANNIZZARO

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust					
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: _____ Date: 7/16/04
Printed Name: Jennifer A Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

SEVERN TRENT STL

Submission#: 2004-07-0484

Performance Excavators, Inc.

July 19, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Greg Rainey

Project#: 408
Project: Baker Beach

Dear Greg,

Attached is our report for your samples received on 07/16/2004 14:45
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/30/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-07-0484

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
071604-BBDA3-1,2,3,4C	07/16/2004	Soil	1
071604-BBDA-1,2,3,4D	07/16/2004	Soil	2

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**071604-BBDA3-1,2,3,4C**	Lab ID:	2004-07-0484 - 1
Sampled:	07/16/2004	Extracted:	7/16/2004 15:18
Matrix:	Soil	QC Batch#:	2004/07/16-09.15

Analysis Flag: . (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	350	1.0	mg/Kg	1.00	07/16/2004 22:57	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**071604-BBDA-1,2,3,4D**	Lab ID:	2004-07-0484 - 2
Sampled:	07/16/2004	Extracted:	7/16/2004 15:18
Matrix:	Soil	QC Batch#:	2004/07/16-09.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	350	1.0	mg/Kg	1.00	07/16/2004 23:08	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
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Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/16-09.15**

MB: 2004/07/16-09.15-171 — Date Extracted: 07/16/2004 15:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	07/16/2004 22:44	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/16-09.15**

LCS 2004/07/16-09.15-172 Extracted: 07/16/2004 Analyzed: 07/16/2004 22:48
LCSD 2004/07/16-09.15-173 Extracted: 07/16/2004 Analyzed: 07/16/2004 22:53

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	98.6	98.4	100.0	98.6	98.4	0.2	80-120	20		

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/07/16-09.15**

071604-BBDA3-1,2,3,4C >> MS

Lab ID: 2004-07-0484 - 001

MS: 2004/07/16-09.15-175 Extracted: 07/16/2004 Analyzed: 07/16/2004 23:01
Dilution: 1.00

MSD: 2004/07/16-09.15-176 Extracted: 07/16/2004 Analyzed: 07/16/2004 23:04
Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	185	165	355	99.0	-171.7	-193.9	-12.	75-125	20	mso	mso

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Legend and Notes

Analysis Flag

.

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.
Precision and Accuracy were verified by LCS/LCSD.

SEVERN TRENT STL

Submission: 2004-07-0484

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
071604-BBDA3-1,2,3,4C	07/16/2004	Soil	1
071604-BBDA-1,2,3,4D	07/16/2004	Soil	2

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**071604-BBDA3-1,2,3,4C**	Lab ID:	2004-07-0484 - 1
Sampled:	07/16/2004	Extracted:	7/19/2004 06:04
Matrix:	Soil	QC Batch#:	2004/07/19-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.3	0.50	mg/L	1.00	07/19/2004 12:05	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**071604-BBDA-1,2,3,4D**	Lab ID:	2004-07-0484 - 2
Sampled:	07/16/2004	Extracted:	7/19/2004 06:04
Matrix:	Soil	QC Batch#:	2004/07/19-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	23	0.50	mg/L	1.00	07/19/2004 12:09	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3005A — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/19-01.15**

MB: 2004/07/19-01.15-051 — Date Extracted: 07/19/2004 06:04

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	07/19/2004 10:21	

SEVERN TRENT STL

Submission: 2004-07-0484

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/19-01.15**

LCS 2004/07/19-01.15-052 Extracted: 07/19/2004 Analyzed: 07/19/2004 10:26

LCSD 2004/07/19-01.15-053 Extracted: 07/19/2004 Analyzed: 07/19/2004 10:30

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	5.19	5.28	5.00	103.8	105.6	1.7	80-120	20		

2004-07-0484

SEVERN TRENT SERVICES

STL ChromaLab

Chain of Custody

2320 Stanley Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 87868

Date 7/16/04 Page 1 of 1

From

Proj.Mgr: Greg Rainey
Company: Performance Excavators Inc.
Address: 103 Storeline Parkway 2nd Flr, San Rafael, CA 94901
Sampler (Signature): [signature]
Phone: 415-257-4640
Fax/Email: 415-257-4644 Greg@PerfEx.com

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B) ☐ DCA ☐ EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021B)	Volatile Organics GC/MS (VOCs) (EPA 8260/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/6020/7470/7471)	Metals ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	W.E.T. (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Specif. Cond. ☐ Alkalinity ☐ TDS ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ F ☐ Br ☐ NO_3 ☐ PO_4	4:1 Composite				Number of Containers
071604-BBDA3-1C	7/16/04		Soil	ICE													X	X				X				1
-2C																	X	X				X				1
-3C																	X	X				X				1
-4C																	X	X				X				1
071604-BBDA-1D	7/16/04		Soil	ICE													X	X				X				1
2D																	X	X				X				1
3D																	X	X				X				1
4D																	X	X				X				1

Project Info.

Project Name: Baker Beach
Project#: 408
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 4°C
Conforms to record:

TAT: Std 5 Day | 72h | 48h | 24h | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:
RUSH TAT - DUE MONDAY 7/19/04

RUSH

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1:10	Signature: [signature] Time: 1445	Signature:
Printed Name: Greg Rainey Date: 7/16/04	Printed Name: Date: 7/16/04	Printed Name: Date:
Company: PEI	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1310	Signature: Time:	Signature: Denise Harrington Time:
Printed Name: Date: 7/16/04	Printed Name: Date:	Printed Name: D. Harrington Date: 1445
Company:	Company:	Company: STL-SF 7/16/04

Rev 07/01

Contractor's Submittal No. 1300-7D

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☐ New Submittal ☑ Resubmittal of Submittal No. 1300-7C

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
RESUBMITTAL OF LAB DATA WITH ADDED NARRATIVE FOR QA/QC RESULTS	1	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: [signature] Date: 7/27/04
Printed Name: GREG RAWLEY

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust					
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: [signature] Date: 7/27/04
Printed Name: Jennifer A Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

SEVERN TRENT STL

Submission#: 2004-07-0484

Performance Excavators, Inc.

July 19, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Greg Rainey

Project#: 408
Project: Baker Beach

Dear Greg,

Attached is our report for your samples received on 07/16/2004 14:45
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/30/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-07-0484

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
071604-BBDA3-1,2,3,4C	07/16/2004	Soil	1
071604-BBDA-1,2,3,4D	07/16/2004	Soil	2

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**071604-BBDA3-1,2,3,4C**	Lab ID:	2004-07-0484 - 1
Sampled:	07/16/2004	Extracted:	7/16/2004 15:18
Matrix:	Soil	QC Batch#:	2004/07/16-09.15

Analysis Flag: . (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	350	1.0	mg/Kg	1.00	07/16/2004 22:57	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**071604-BBDA-1,2,3,4D**	Lab ID:	2004-07-0484 - 2
Sampled:	07/16/2004	Extracted:	7/16/2004 15:18
Matrix:	Soil	QC Batch#:	2004/07/16-09.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	350	1.0	mg/Kg	1.00	07/16/2004 23:08	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/16-09.15**

MB: 2004/07/16-09.15-171 — Date Extracted: 07/16/2004 15:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	07/16/2004 22:44	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/16-09.15**

LCS 2004/07/16-09.15-172 Extracted: 07/16/2004 Analyzed: 07/16/2004 22:48

LCSD 2004/07/16-09.15-173 Extracted: 07/16/2004 Analyzed: 07/16/2004 22:53

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	98.6	98.4	100.0	98.6	98.4	0.2	80-120	20		

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/07/16-09.15**

071604-BBDA3-1,2,3,4C >> MS

Lab ID: 2004-07-0484 - 001

MS: 2004/07/16-09.15-175 Extracted: 07/16/2004 Analyzed: 07/16/2004 23:01
Dilution: 1.00

MSD: 2004/07/16-09.15-176 Extracted: 07/16/2004 Analyzed: 07/16/2004 23:04
Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	185	165	355	99.0	-171.7	-193.9	-12.	75-125	20	mso	mso

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

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San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Legend and Notes

Report Comment

The composite sample was examined to determine the possible nature of the RPD results for the MS/MSD data. The composite sample is composed of approximately 30% rock particles ranging in size from 0.5 to 3mm and 70% fine dark brown sand with some visible organic material. The data suggests that the original sample contained more of the finer-grained sand with organic material as metal concentrations tend to increase in the finer-grained fractions of soil samples.

Analysis Flag

.

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.
Precision and Accuracy were verified by LCS/LCSD.

SEVERN TRENT STL

Submission: 2004-07-0484

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
071604-BBDA3-1,2,3,4C	07/16/2004	Soil	1
071604-BBDA-1,2,3,4D	07/16/2004	Soil	2

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**071604-BBDA3-1,2,3,4C**	Lab ID:	2004-07-0484 - 1
Sampled:	07/16/2004	Extracted:	7/19/2004 06:04
Matrix:	Soil	QC Batch#:	2004/07/19-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.3	0.50	mg/L	1.00	07/19/2004 12:05	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**071604-BBDA-1,2,3,4D**	Lab ID:	2004-07-0484 - 2
Sampled:	07/16/2004	Extracted:	7/19/2004 06:04
Matrix:	Soil	QC Batch#:	2004/07/19-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	23	0.50	mg/L	1.00	07/19/2004 12:09	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3005A — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/19-01.15**

MB: 2004/07/19-01.15-051 — Date Extracted: 07/19/2004 06:04

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	07/19/2004 10:21	

SEVERN TRENT STL

Submission: 2004-07-0484

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach

Received: 07/16/2004 14:45

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/19-01.15**

LCS 2004/07/19-01.15-052 Extracted: 07/19/2004 Analyzed: 07/19/2004 10:26

LCSD 2004/07/19-01.15-053 Extracted: 07/19/2004 Analyzed: 07/19/2004 10:30

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	5.19	5.28	5.00	103.8	105.6	1.7	80-120	20		

2004-07-0484

SEVERN TRENT SERVICES

STL ChromaLab

Chain of Custody

2010 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 87868

Date 7/16/04 Page 1 of 1

From

Proj. Mgr: Greg Rainey
Company: Performance Excavators Inc.
Address: 103 Shoreline Parkway 2nd Flr, San Rafael, CA 94901
Sampler (Signature): Greg Rainey
Phone: 415-257-4640 Fax/Email: 415-257-4644 Greg@PerfEx.com

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate Suite ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 601/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260B/8260C)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010B/7470/7471)	Metals ☐ Lead ☐ LUFT ☐ RCRA ☐ Other LEAD	W.E.T. (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec. Cond. ☐ Alkalinity TDS TSS	Anions: ☐ Cl ☐ SO_4 ☐ F ☐ Br ☐ NO_3 ☐ NO_2	4:1 Composite				Number of Containers
071604-BBDA3-1C	7/16/04		Soil	ICE												X	X				X					1
-2C																										1
-3C																										1
-4C																										1
071604-BBDA-1D	7/16/04		Soil	ICE												X	X				X					1
2D																										1
3D																										1
4D																										1

Project Info.	Sample Receipt
Project Name: Baker Beach	# of Containers:
Project#: 408	Head Space:
PO#:	Temp: 4°C
Credit Card#:	Conforms to record:
TAT: Std 5 Day / 72h / 48h / 24h	Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:
RUSH TAT - DUE MONDAY 7/19/04

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Greg Rainey Time: 1:10	Signature: Steve Time: 1445	RUSH
Printed Name: Greg Rainey Date: 7/16/04	Printed Name: Date: 7/16/04	Signature
Company: PET	Company	Printed Name / Date
		Company

1) Received by:	2) Received by:	3) Received by:
Signature: Steve Time: 1310	Signature / Time	Signature: Denise Harrington Time: 1445
Printed Name: Date: 7/16/04	Printed Name / Date	Printed Name: D Harrington Date: 7/16/04
Company	Company	Company: STL-SF

Rev 07/04

SEVERN TRENT STL

Submission#: 2004-07-0641

Performance Excavators, Inc.

July 22, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Greg Rainey

Project#: 408
Project: Presido - Baker Beach

Dear Greg,

Attached is our report for your samples received on 07/21/2004 19:15
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/04/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-07-0641

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
072004-BBDA3-CRTE	07/20/2004	Soil	1

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**072004-BBDA3-CRTE**	Lab ID:	2004-07-0641 - 1
Sampled:	07/20/2004	Extracted:	7/22/2004 05:24
Matrix:	Soil	QC Batch#:	2004/07/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	170	1.0	mg/Kg	1.00	07/22/2004 13:12	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3050B
Test(s): 6010B

Method Blank **Soil** **QC Batch # 2004/07/22-01.15**

MB: 2004/07/22-01.15-039
Date Extracted: 07/22/2004 05:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	07/22/2004 11:29	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/22-01.15**

LCS 2004/07/22-01.15-040 Extracted: 07/22/2004 Analyzed: 07/22/2004 11:34
LCSD 2004/07/22-01.15-041 Extracted: 07/22/2004 Analyzed: 07/22/2004 11:38

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	101	101	100.0	101.0	101.0	0.0	80-120	20		

SEVERN TRENT STL

Submission: 2004-07-0641

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
072004-BBDA3-CRTE	07/20/2004	Soil	1

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**072004-BBDA3-CRTE**	Lab ID:	2004-07-0641 - 1
Sampled:	07/20/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	11	0.50	mg/L	1.00	07/26/2004 08:47	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3005A — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/26-01.15**

MB: 2004/07/26-01.15-036 — Date Extracted: 07/26/2004 05:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	07/26/2004 08:29	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/26-01.15**

LCS 2004/07/26-01.15-037 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:33
LCSD 2004/07/26-01.15-038 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:38

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.91	4.94	5.00	98.2	98.8	0.6	80-120	20		

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/07/26-01.15**

072004-BBDA3-CRTE >> MS

Lab ID: 2004-07-0641 - 001

MS: 2004/07/26-01.15-041 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:52
Dilution: 1.00

MSD: 2004/07/26-01.15-042 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:56
Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	14.6	14.8	10.5	5.00	82.0	86.0	4.8	75-125	20		

EVERN TRENT SERVICES

2004-07-0641

STL San Francisco

Chain of Custody

220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 88020

Date 7/20/04 Page 1 of 1

Report To

Attn. Carlos Ramirez
Company Performance Excavators, Inc.
Address 103 Shoreline Parkway
Phone 415-257-4640 Email Carlos@PEF-Ex.Com
Bill To Same
Sampled By: ML
Attn: Carlos Ramirez
Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenates List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides (EPA 8081) PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond ☐ Alkalinity TSS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				Number of Containers
072004-BFDA3-CRTE	7/20/04		Soil	Ice												X									1

RUSH!

Project Info.

Project Name: Preston - Baker Beach
Project#: 408
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:
Other

TAT	Std 5 Day	72h	48h	24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:

1) Run TTLC LEAD on 24 HR TAT
2) Run STLC LEAD IF TTLC LEAD ≥ 50 mg/kg (STANDARD TAT)

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Carlos Ramirez	Signature: Rodney Allen 19:25	Signature / Time
Time: 7/20/04	Time: 7/21/04	
Printed Name / Date	Printed Name: R Allen / Date	Printed Name / Date
Company: PEI	Company: STLSF	Company

1) Received by:	2) Received by:	3) Received by:
Signature: Rodney Allen 15:00	Signature: Tracy Bullock 19:15	Signature / Time
Time: 7/21/04	Time: 7/21/04	
Printed Name / Date: R Allen	Printed Name / Date: T. Bullock	Printed Name / Date
Company: STL-SF	Company: STL-SF	Company

Rev 01/02

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: _____

Date 7/20/04 Page 1 of 1

Report To

Attn. Greg Rainey
Company Arthur Nance Excavators Inc
Address 103 Shoreline Parkway
Phone 415-257-4040 Email greg@aeae-ex.com
Bill To Same
Sampled By: [illegible]
Attn: Greg Rainey
Phone: 415-257-4040

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	☐ Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☒ Lead ☐ LUFT ☐ RCRA ☐ Other:	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				Number of Containers
072004-BBDA3-CRTE	7/20/04		SOIL	ICE												X									1

OT 2004-BBDA CRTE 170
MUST RUN STLC @ 3 DAY TAT
STLC 11.0

Project Info.

Project Name: Presidio - Baker Beach
Project#: 408
PO#:
Credit Card#:

Sample Receipt

# of Containers:
Head Space:
Temp:
Conforms to record:
Other

Std 5 Day	72h	48h	24h
			✓

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:

1) Run TTLC LEAD on 24 HR TAT
2) Run STLC LEAD IF TTLC LEAD ≥ 50 mg/kg (STANDARD TAT)

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [illegible] Time:	Signature Time	Signature Time
Printed Name: Greg Rainey Date: 7/21/04	Printed Name Date	Printed Name Date
Company: PEI	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature: Rodney Allen Time: 15:00	Signature Time	Signature Time
Printed Name: R Allen Date: 7/21/04	Printed Name Date	Printed Name Date
Company: STL-SF	Company	Company

Rev 01/02

Request For Information No. 10

Contract No. PT-2004-024 Baker Beach Disturbed Areas 3 and 4 Remedial Action
PO#_____

INFORMATION REQUEST Contractor's Control No.: _____ Date: 7/27/04

Re:

Spec. Section/Drawing No./Detail Reference:

Question: CONCRETE STOCKPILED AT THE SITE ENTRANCE HAS SOIL WHICH REQUIRED TESTING PRIOR TO RECYCLING OR DISPOSAL. SAMPLES COLLECTED FROM THE SOIL ON THE CONCRETE WERE ANALYZED FOR TTLC AND STLC LEAD AND ARE ATTACHED FOR YOUR REVIEW.

THE SOIL ANALYSES INDICATES THAT THE SOIL ON THE CONCRETE DOES NOT MEET CRITERIA FOR NON HAZARDOUS HANDLING OR FOR RECYCLING. HOW DO YOU WISH TO PROCEED WITH THE CONCRETE OFFHAUL?

Attachment List:
ANALYTICAL DATA
SAMPLE 072004-BBDA3-CRTE

Signature: [signature]
Printed Name: GREG RAWLEY

RESPONSE Date: _____

Attachment List:

Signature: _____
Printed Name: _____

Request Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

Contractor's Submittal No. 1300-9A2

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☑ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
NON HAZARDOUS - CLASS II - WASTE PROFILE	1		
TEST PIT ANALYTICAL DATA FROM DA 4 - SAMPLES OBTAINED 7/20/04 RESULTS INDICATE CLASS II.	1	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: [signature] Date: 7/27/04
Printed Name: Greg Kaney

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust	✓				
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: [signature] Date: 7/27/04
Printed Name: Jennifer A Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

WASTE MANAGEMENT

Profile Number: _____
Expiration Date: _____

WASTE PROFILE SHEET
TERMS & CONDITIONS

Service Agreement on File?
XX Yes ☐ No

This form is to be used to comply with the requirements of governmental waste screening criteria.

Profile Addendum Attached?
☐ Yes ☐ No

A. Waste Generator Information

1. Generator/Site Name: The Presidio Trust
2. SIC Code: _____
3. Site Address: Lincoln Blvd @ Battery Crosby
4. Site City: San Francisco
5. Site State: CA
7. Zip Code: 94129
6. Site County: San Francisco
8. Generator USEPA/Federal ID#: _____
9. Site Phone: 415-561-4272
10. Customer Name: The Presidio Trust
11. Customer Phone: 415-561-4272
12. Customer Contact: Jennifer Yata
13. Customer FAX: 415-561-2132

B. Waste Stream and Billing Information

1. Waste Description: Soil contaminated with lead
2. State Waste Code: NA
3. Billing Address: 103 Shoreline Parkway, Suite 201
San Rafael, CA 94901
4. Process Generating Waste: Excavation to remove contaminated soil
5. Transporter/Transfer Station: Cross Trucking
6. Shipping Method: Semi-end Dump Trucks
7. Estimated Quantity (Weight & Vol.): 5000 Tons (+ or -) per XX Job ☐ Year ☐ Other _____
8. Delivery Date(s): TBD
9. Personal Protective Equipment Requirements: wear gloves
10. Is this a US Dept. of Transportation (USDOT) Hazardous Material?
☐ Yes XX No (If no, skip 10, 11 and 12)
11. Reportable Quantity: NA
12. Hazard Class / I.D. #: NA
13. Shipping Name: Soil,Non-RCRA, Non-Hazardous

☐ **Check if additional information is attached. Indicate the number of attached pages:** _____

C. Generator's Certification (Please check appropriate responses, sign and date reverse side)

	Yes	No	
1. Is the waste represented by this waste profile sheet a "Hazardous Waste" as defined by USEPA, Canadian, Mexican, State, or Provincial regulation?	☐	XX	
2. Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated concentrations of Polychlorinated Biphenyls (PCBs)?	☐	XX	
3. Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material?	XX	☐	
4. Has all relevant information within the possession of the Generator and Customer regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor?	XX	☐	
5. Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules?	XX	☐	☐ N/A
6. Will all changes that occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor?	XX	☐	
7. Is this waste from a CERCLA site?	XX	☐	

D. WM Management's Decision

1. Management Method: _____
2. Designated Facility: Altamont Landfill
3. Hours of acceptance: _____ ☐ N/A
4. Precautions, Special Handling Procedures, or Limitations on Approval: _____

Generic Approval: ☐ Yes ☐ No
Special Waste Decision: ☐ Approved ☐ Disapproved
Sales Person: _____ Date: _____
Technical Manager: _____ Date: _____

GENERATOR AND CUSTOMER MUST READ AND SIGN REVERSE HEREOF

INITIAL _____
INITIAL _____

TERMS AND CONDITIONS

1. **ACCEPTABLE WASTE.** Customer shall deliver and Company shall accept for disposal or other management purpose only Acceptable Waste. As used herein, "Customer" shall mean both Customer and Generator listed on the reverse hereof. Customer shall deliver the full quantity of Acceptable Waste generated and/or handled by Customer as estimated on the reverse hereof. Acceptable Waste means and includes only such waste as is described on the reverse and which is approved and permitted for management at the Designated Facility listed on the reverse, and shall not include any Nonconforming Waste. As used herein, Nonconforming Waste means waste that: (a) is not in conformance with the description and/or estimated quantity of the waste set forth on the reverse; (b) is or contains any infectious waste, or radioactive, volatile, corrosive, highly flammable, explosive, biomedical, biohazardous material or hazardous, dangerous, or toxic substances, as defined pursuant to or listed or regulated under applicable federal, state or local law, except as stated on the reverse; or (c) is prohibited from being received, managed or disposed of at the Designated Facility by federal, state or local law, regulation, rule, code, ordinance, order, permit or permit condition;

2. **REPRESENTATIONS & WARRANTIES.** Customer represents and warrants that: (a) the description of the waste set forth on the reverse hereof is true and correct in all material respects; (b) all waste delivered to the Designated Facility by Customer shall be Acceptable Waste as defined above and shall not be or contain Nonconforming Waste; (c) Customer shall, and shall cause any carrier with which it contracts to, handle and transport the waste in a safe and workmanlike manner in full compliance with all applicable federal, state and local laws, ordinances, decisions, orders, rules or regulations; and (d) Customer has advised its drivers of Company's prohibition on delivery of Nonconforming Waste, of the definitions and listing of hazardous waste and hazardous substances under applicable federal and state law and regulations and of the definition of Acceptable Waste herein. Company represents and warrants that it shall manage the Acceptable Waste in a safe and workmanlike manner in full compliance with all applicable federal, state and local laws, ordinances, decisions, orders, rules or regulations.

3. **WASTE REJECTION.** Company may inspect, analyze or test any waste delivered by Customer and/or may reject, refuse or revoke acceptance of any waste if, in the opinion of Company, the waste or tender of delivery fails to conform to or Customer fails to comply with the terms of this Agreement, including by delivery of Nonconforming Waste. Company may also reject any waste which (a) Company reasonably believes would, as a result of or upon disposal or other management, be a violation of local, state or federal law, regulation, ordinance or permits, including land use restrictions or conditions applicable to the Designated Facility; or (b) in Company's opinion would present a significant risk to human health or the environment, cause a nuisance or otherwise create or expose Company or Customer to potential liability. Company also shall have the right to refuse to accept or to reject any Acceptable Waste in the event of Customer's failure to pay fees owed by Customer hereunder. In the event Company rejects or revokes acceptance of waste hereunder, Customer shall, at its sole cost, immediately remove or arrange to have the rejected waste removed from Company's control or property. Customer shall pay and/or reimburse Company for any and all costs, damages and/or fines incurred as a result of or relating to Customer's tender or delivery of Nonconforming Waste or other failure to comply or conform to this Agreement, including costs of inspection, testing and analysis.

4. **SPECIAL HANDLING; TITLE.** If Company elects, in its sole discretion, to handle, rather than reject, Nonconforming Waste, Company shall have the right to manage such Nonconforming Waste in the manner deemed most appropriate by Company given the characteristics of the Nonconforming Waste. Company may assess and Customer shall pay additional fees associated with delivery of Nonconforming Waste, including, but not limited to, special handling or disposal charges, and costs associated with different quantities of waste, different delivery dates, modifications in operations, specialized equipment, and other operational, environmental, health, safety or regulatory requirements. Title to and ownership of Acceptable Waste shall transfer to Company upon its final acceptance of Acceptable Waste. Title to, ownership of and liability for Nonconforming Waste shall at all times remain with Customer. Revocation of acceptance by Company shall operate to re-vest all incidents of ownership in Customer.

5. **INDEMNITY.** Each party hereto (the "Indemnitor") hereby agrees to indemnify, hold harmless and defend the other party, and its owners, officers, directors, employees and agents (collectively, the "Indemnitees"), from and against any and all liabilities, penalties, fines, forfeitures, fees, demands, claims, causes of action, suits, judgments and costs and expenses incidental thereto, including attorneys' fees (collectively, "Damages"), which any or all of the Indemnitees may hereafter suffer, incur, be responsible for or pay out, including for personal injuries, property damage, or contamination of or adverse effects on the environment, to the extent caused by, or arising from or in connection with the breach of any representations or warranties of the Indemnitor set forth in this Agreement, or any negligent actions or omissions or willful misconduct of the Indemnitor, its employees, officers, owners, directors or agents, or the violation of any law, ordinance or regulation, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. § 9601 et seq., as amended. Such indemnity shall exclude Damages to the extent they arise as a result of any negligent actions or omissions or willful misconduct of the Indemnitees or their employees, officers, owners, directors or agents. The indemnification obligation hereunder shall arise only in excess of any available and collectible insurance proceeds and the Indemnitor shall be liable hereunder to pay only its share of the amount of Damages, if any, that exceeds the total amount that all insurance has paid for the Damages, plus the total of all deductible and self-insured expenses paid under all insurance policies. The obligations in this Section 5 shall survive the performance and termination of this Agreement.

6. **UNCONTROLLABLE CIRCUMSTANCES; TERMINATION.** Except for the obligation to pay fees hereunder, the performance of this Agreement may be discontinued or temporarily suspended by either party, and neither party shall be deemed to be in breach of this Agreement, in the event performance is prevented by a cause or causes beyond the reasonable control of the affected party. Such causes shall include, but not be limited to, acts of God, acts of war, riot, fire, explosion, accident, flood or sabotage, governmental laws (including nuisance), permit conditions, regulations, restrictions (including land use), condition of the waste, injunction or actions or omissions of third party transporters or other contractors, suppliers or vendors. Company may immediately terminate management services hereunder upon written notice to Customer in the event Customer breaches any term, provision or obligation under this Agreement, in which case, Customer shall be liable for and shall pay to Company all costs and losses incurred by Company as a result of or relating to any such termination.

7. **MISCELLANEOUS.** This Agreement shall be governed by the laws of the state in which the Designated Facility is located. Every provision of this Agreement shall be severable. This Agreement represents the entire understanding and Agreement between the parties relating to the management of waste, except that, if the parties, or their parent companies, are parties to a national service agreement, the terms of such national service agreement shall govern over any inconsistent terms in this Agreement. No representations, statements or Agreements, unless agreed to by the parties in writing, shall modify, change, amend or otherwise affect the obligations undertaken in this Agreement. No waiver by either party of any one or more defaults or breaches by the other in the performance of this Agreement shall operate or be construed as a waiver of any future defaults or breaches. Customer may not assign this Agreement without the prior written consent of Company. This Agreement shall be binding upon and shall inure to the benefit of the parties' successors and assigns.

THIS IS A LEGALLY BINDING CONTRACT. EACH UNDERSIGNED INDIVIDUAL ACKNOWLEDGES THAT HE/SHE HAS READ AND UNDERSTANDS THE TERMS AND CONDITIONS OF THIS AGREEMENT SET FORTH ABOVE AND ON THE REVERSE HEREOF AND THAT HE/SHE HAS THE AUTHORITY TO SIGN ON BEHALF OF CUSTOMER/GENERATOR AND COMPANY. BY SIGNING BELOW, CUSTOMER AND GENERATOR INDICATE A FIRST HAND KNOWLEDGE OF THE WASTE'S CHARACTERISTICS AND CERTIFY THE TRUTH OF THE INFORMATION ON THE REVERSE HEREOF. AGREED TO AS OF THE DATES BELOW.

CUSTOMER:	GENERATOR:	COMPANY, Altamont Landfill:
(AUTHORIZED SIGNATURE)	(AUTHORIZED SIGNATURE)	(AUTHORIZED SIGNATURE)
Jennifer Yata, Project Manager	Jennifer Yata, Project Manager	
(NAME, TITLE)	(NAME, TITLE)	(NAME, TITLE)
DATE: _____	DATE: _____	DATE: _____

SEVERN TRENT STL

Submission#: 2004-07-0642

Performance Excavators, Inc.

July 26, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Greg Rainey

Project#: 408
Project: Presido - Baker Beach

Dear Greg,

Attached is our report for your samples received on 07/21/2004 19:15
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/04/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-07-0642

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
072004-BBDA4-TP(1-4)	07/20/2004	Soil	1

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**072004-BBDA4-TP(1-4)**	Lab ID:	2004-07-0642 - 1
Sampled:	07/20/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.9	0.50	mg/L	1.00	07/26/2004 09:01	

SEVERN TRENT STL

Submission: 2004-07-0642

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3005A
Method Blank
MB: 2004/07/26-01.15-036

Soil

Test(s): 6010B
QC Batch # 2004/07/26-01.15
Date Extracted: 07/26/2004 05:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	07/26/2004 08:29	

SEVERN TRENT STL

Submission: 2004-07-0642

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/26-01.15**

LCS 2004/07/26-01.15-037 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:33
LCSD 2004/07/26-01.15-038 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:38

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.91	4.94	5.00	98.2	98.8	0.6	80-120	20		

SEVERN TRENT STL

Submission: 2004-07-0642

CAM 17 Metals

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
072004-BBDA4-TP(1-4)	07/20/2004	Soil	1

SEVERN TRENT STL

Submission: 2004-07-0642

CAM 17 Metals

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B 7471A	Test(s):	6010B 7471A
Sample ID:	**072004-BBDA4-TP(1-4)**	Lab ID:	2004-07-0642 - 1
Sampled:	07/20/2004	Extracted:	7/22/2004 05:31 7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-01.16 2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	07/26/2004 16:32	
Arsenic	3.3	1.0	mg/Kg	1.00	07/26/2004 16:32	
Barium	31	1.0	mg/Kg	1.00	07/26/2004 16:32	
Beryllium	ND	0.50	mg/Kg	1.00	07/26/2004 16:32	
Cadmium	ND	0.50	mg/Kg	1.00	07/26/2004 16:32	
Chromium	25	1.0	mg/Kg	1.00	07/26/2004 16:32	
Cobalt	5.2	1.0	mg/Kg	1.00	07/26/2004 16:32	
Copper	13	1.0	mg/Kg	1.00	07/26/2004 16:32	
Lead	62	1.0	mg/Kg	1.00	07/26/2004 16:32	
Molybdenum	ND	1.0	mg/Kg	1.00	07/26/2004 16:32	
Nickel	23	1.0	mg/Kg	1.00	07/26/2004 16:32	
Selenium	ND	2.0	mg/Kg	1.00	07/26/2004 16:32	
Silver	ND	1.0	mg/Kg	1.00	07/26/2004 16:32	
Thallium	ND	1.0	mg/Kg	1.00	07/26/2004 16:32	
Vanadium	30	1.0	mg/Kg	1.00	07/26/2004 16:32	
Zinc	61	1.0	mg/Kg	1.00	07/26/2004 16:32	
Mercury	0.056	0.050	mg/Kg	1.00	07/22/2004 12:09	

CAM 17 Metals

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 7471A — Test(s): 7471A

Method Blank — **Soil** — **QC Batch # 2004/07/22-01.16**

MB: 2004/07/22-01.16-060 — Date Extracted: 07/22/2004 05:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	07/22/2004 11:35	

CAM 17 Metals

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3050B | Test(s): 6010B
Method Blank | **Soil** | **QC Batch # 2004/07/22-04.15**
MB: 2004/07/22-04.15-143 | Date Extracted: 07/22/2004 08:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	07/26/2004 16:20	
Arsenic	ND	1.0	mg/Kg	07/26/2004 16:20	
Barium	ND	1.0	mg/Kg	07/26/2004 16:20	
Beryllium	ND	0.50	mg/Kg	07/26/2004 16:20	
Cadmium	ND	0.50	mg/Kg	07/26/2004 16:20	
Chromium	ND	1.0	mg/Kg	07/26/2004 16:20	
Cobalt	ND	1.0	mg/Kg	07/26/2004 16:20	
Copper	ND	1.0	mg/Kg	07/26/2004 16:20	
Lead	ND	1.0	mg/Kg	07/26/2004 16:20	
Molybdenum	ND	1.0	mg/Kg	07/26/2004 16:20	
Nickel	ND	1.0	mg/Kg	07/26/2004 16:20	
Selenium	ND	2.0	mg/Kg	07/26/2004 16:20	
Silver	ND	1.0	mg/Kg	07/26/2004 16:20	
Thallium	ND	1.0	mg/Kg	07/26/2004 16:20	
Vanadium	ND	1.0	mg/Kg	07/26/2004 16:20	
Zinc	ND	1.0	mg/Kg	07/26/2004 16:20	

CAM 17 Metals

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 7471A

Test(s): 7471A

Laboratory Control Spike **Soil** **QC Batch # 2004/07/22-01.16**

LCS 2004/07/22-01.16-061 Extracted: 07/22/2004 Analyzed: 07/22/2004 11:37
LCSD 2004/07/22-01.16-062 Extracted: 07/22/2004 Analyzed: 07/22/2004 11:38

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Mercury	0.487	0.492	0.500	97.4	98.4	1.0	85-115	20		

CAM 17 Metals

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido - Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/22-04.15**

LCS 2004/07/22-04.15-144 Extracted: 07/22/2004 Analyzed: 07/26/2004 16:24
LCSD 2004/07/22-04.15-145 Extracted: 07/22/2004 Analyzed: 07/26/2004 16:28

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Antimony	97.2	99.1	100.0	97.2	99.1	1.9	80-120	20		
Arsenic	99.2	101	100.0	99.2	101.0	1.8	80-120	20		
Barium	98.6	101	100.0	98.6	101.0	2.4	80-120	20		
Beryllium	101	101	100.0	101.0	101.0	0.0	80-120	20		
Cadmium	96.5	98.9	100.0	96.5	98.9	2.5	80-120	20		
Chromium	98.2	101	100.0	98.2	101.0	2.8	80-120	20		
Cobalt	98.2	101	100.0	98.2	101.0	2.8	80-120	20		
Copper	101	104	100.0	101.0	104.0	2.9	80-120	20		
Lead	95.8	97.7	100.0	95.8	97.7	2.0	80-120	20		
Molybdenum	94.1	96.5	100.0	94.1	96.5	2.5	80-120	20		
Nickel	97.1	99.4	100.0	97.1	99.4	2.3	80-120	20		
Selenium	92.4	94.6	100.0	92.4	94.6	2.4	80-120	20		
Silver	98.7	101	100.0	98.7	101.0	2.3	80-120	20		
Thallium	92.5	94.5	100.0	92.5	94.5	2.1	80-120	20		
Vanadium	100	103	100.0	100.0	103.0	3.0	80-120	20		
Zinc	96.7	98.9	100.0	96.7	98.9	2.2	80-120	20		

EVERN TRENT SERVICES

2004-07-0642

STL San Francisco

Chain of Custody

220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 88021

Date 7/20/04 Page 1 of 1

Report To

Attn. Greg Rainey
Company Performance Evaluators, Inc.
Address 105 Shoreline Parkway
Phone 415-257-1640 Email Greg@Pez-Ex.com
Bill To
Attn: Greg Rainey
Sampled By:
Phone: 415-257-1640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate list ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides (EPA 8081) PCBs (EPA 8082) ☐ ☐	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	W.E.T. (STLC) TCLP ☐ ☐	Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐	Spec Cond ☐ Alkalinity TDS ☐ ☐	Anions ☐ ☐ SO_4 ☐ NO_3 ☐ F ☐ ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
072004-EBDA4-TP1	7/20/04		Soil	Ice											X		X				X				1
072004-EBDA4-TP2																									1
072004-EBDA4-TP3																									1
072004-EBDA4-TP4																									1

Project Info.

Project Name: Presidio Baker Beach
Project#: 408
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:

TAT: Std 5 Day | (72h) | 48h | 24h | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD
Special Instructions / Comments:

72 Hr TAT

RUSH

1) Relinquished by:	2) Relinquished by:	3) Relinquished by
Signature: [signature] Time	Signature: [signature] Time 19:75	Signature Time
Printed Name: Greg Rainey Date 7/21/04	Printed Name: R Allen Date 7/21/04	Printed Name Date
Company: PEI	Company: STL-SF	Company
1) Received by:	**2) Received by:**	**3) Received by**
Signature: Rodney Allen Time 15:00	Signature: [signature] Time 19:15	Signature Time
Printed Name: R Allen Date 7/21/04	Printed Name: L. Bullock Date 7/21/04	Printed Name Date
Company: STL-SF	Company: STL-SF	Company

Rev 11/00

SEVERN TRENT STL

Submission#: 2004-07-0643

Performance Excavators, Inc.

July 26, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Greg Rainey

Project#: 408
Project: Presido-Baker Beach

Dear Greg,

Attached is our report for your samples received on 07/21/2004 19:15
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/04/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-07-0643

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
BB3SS103 (2)	07/21/2004	Soil	1
BB3SS103 (4)	07/21/2004	Soil	2
BB3SS103 (6)	07/21/2004	Soil	3
BB3SS104 (2)	07/21/2004	Soil	4
BB3SS104 (4)	07/21/2004	Soil	5
BB3SS104 (6)	07/21/2004	Soil	6
BB3SS105 (2)	07/21/2004	Soil	7
BB3SS105 (4)	07/21/2004	Soil	8
BB3SS105 (6)	07/21/2004	Soil	9

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS103 (2)**	Lab ID:	2004-07-0643 - 1
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	1.2	0.50	mg/L	1.00	07/26/2004 09:05	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS103 (4)**	Lab ID:	2004-07-0643 - 2
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.2	0.50	mg/L	1.00	07/26/2004 09:23	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS103 (6)**	Lab ID:	2004-07-0643 - 3
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.9	0.50	mg/L	1.00	07/26/2004 09:27	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS104 (2)**	Lab ID:	2004-07-0643 - 4
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	36	0.50	mg/L	1.00	07/26/2004 09:32	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS104 (4)**	Lab ID:	2004-07-0643 - 5
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	1.5	0.50	mg/L	1.00	07/26/2004 09:36	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS104 (6)**	Lab ID:	2004-07-0643 - 6
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	1.7	0.50	mg/L	1.00	07/26/2004 09:41	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS105 (2)**	Lab ID:	2004-07-0643 - 7
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.9	0.50	mg/L	1.00	07/26/2004 09:46	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS105 (4)**	Lab ID:	2004-07-0643 - 8
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.77	0.50	mg/L	1.00	07/26/2004 09:50	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**BB3SS105 (6)**	Lab ID:	2004-07-0643 - 9
Sampled:	07/21/2004	Extracted:	7/26/2004 05:36
Matrix:	Soil	QC Batch#:	2004/07/26-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	0.50	mg/L	1.00	07/26/2004 09:55	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3005A — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/26-01.15**

MB: 2004/07/26-01.15-036 — Date Extracted: 07/26/2004 05:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	07/26/2004 08:29	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/26-01.15**

LCS 2004/07/26-01.15-037 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:33

LCSD 2004/07/26-01.15-038 Extracted: 07/26/2004 Analyzed: 07/26/2004 08:38

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.91	4.94	5.00	98.2	98.8	0.6	80-120	20		

SEVERN TRENT STL

Submission: 2004-07-0643

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
BB3SS103 (2)	07/21/2004	Soil	1
BB3SS103 (4)	07/21/2004	Soil	2
BB3SS103 (6)	07/21/2004	Soil	3
BB3SS104 (2)	07/21/2004	Soil	4
BB3SS104 (4)	07/21/2004	Soil	5
BB3SS104 (6)	07/21/2004	Soil	6
BB3SS105 (2)	07/21/2004	Soil	7
BB3SS105 (4)	07/21/2004	Soil	8
BB3SS105 (6)	07/21/2004	Soil	9

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS103 (2)**	Lab ID:	2004-07-0643 - 1
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	27	1.0	mg/Kg	1.00	07/26/2004 16:36	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS103 (4)**	Lab ID:	2004-07-0643 - 2
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	21	1.0	mg/Kg	1.00	07/26/2004 16:39	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS103 (6)**	Lab ID:	2004-07-0643 - 3
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	140	1.0	mg/Kg	1.00	07/26/2004 16:43	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS104 (2)**	Lab ID:	2004-07-0643 - 4
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	150	1.0	mg/Kg	1.00	07/26/2004 16:46	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS104 (4)**	Lab ID:	2004-07-0643 - 5
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	32	1.0	mg/Kg	1.00	07/26/2004 16:49	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS104 (6)**	Lab ID:	2004-07-0643 - 6
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	20	1.0	mg/Kg	1.00	07/26/2004 16:53	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS105 (2)**	Lab ID:	2004-07-0643 - 7
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	75	1.0	mg/Kg	1.00	07/26/2004 17:08	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS105 (4)**	Lab ID:	2004-07-0643 - 8
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	28	1.0	mg/Kg	1.00	07/26/2004 17:11	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**BB3SS105 (6)**	Lab ID:	2004-07-0643 - 9
Sampled:	07/21/2004	Extracted:	7/22/2004 08:21
Matrix:	Soil	QC Batch#:	2004/07/22-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	8.0	1.0	mg/Kg	1.00	07/26/2004 17:15	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2004/07/22-04.15**

MB: 2004/07/22-04.15-143 — Date Extracted: 07/22/2004 08:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	07/26/2004 16:20	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presido-Baker Beach

Received: 07/21/2004 19:15

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/22-04.15**

LCS 2004/07/22-04.15-144 Extracted: 07/22/2004 Analyzed: 07/26/2004 16:24
LCSD 2004/07/22-04.15-145 Extracted: 07/22/2004 Analyzed: 07/26/2004 16:28

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	95.8	97.7	100.0	95.8	97.7	2.0	80-120	20		

EVERN TRENT SERVICES

2004-07-0643

STL San Francisco

Chain of Custody

2320 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 88022

Date 7/21/04 Page 1 of 1

Report To

Attn. Greg Rainey
Company Performance Excavations Inc
Address 103 Shoreline Parkway
Phone 415-257-4640 Email Greg@Perf-Ex.com
Bill To Same
Sampled By: Dustyne Sutherland
Attn: Greg Rainey
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	☐ Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	W.E.T. (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond ☐ Alkalinity TSS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
BB3SS103 (2)	7/21/04		Soil	Ice												X	X									1
(4)																X	X									1
(6)																X	X									1
BB3SS104 (2)																X	X									1
(4)																X	X									1
(6)																X	X									1
BB3SS105 (2)																X	X									1
(4)																X	X									1
(6)																X	X									1

Project Info.

Project Name: Presidio - Baker Beach
Project#: 4108
PO#:
Credit Card#:

Sample Receipt

# of Containers:
Head Space:
Temp:
Conforms to record:

TAT: Std 5 Day | (72h) | 48h | 24h

Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD
Special Instructions / Comments:

RUSH

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: D Sutherland Time: 2:30	Signature: Greg Rainey Time: 3:02	Signature: Rodney Allen Time: 19:15
Printed Name: Dustyne Sutherland Date: 7-21-04	Printed Name: Greg Rainey Date: 7/21/04	Printed Name: R Allen Date: 7/21/04
Company: Treadwing Bond	Company: PEI	Company: STL SF

1) Received by:	2) Received by:	3) Received by:
Signature: Greg Rainey Time: 2:30	Signature: Rodney Allen Time: 15:02	Signature: Tracy Bullock Time: 19:15
Printed Name: Greg Rainey Date: 7/21/04	Printed Name: R Allen Date: 7/21/04	Printed Name: T. Bullock Date: 7/21/04
Company: PEI	Company: STL-SF	Company: STL-SF

Rev 0402

Contractor's Submittal No.____

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☑ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
SAMPLE RESULTS - DUPLICATES - COLLECTED BY TREADWELL & ROLLO ON 7/21/04 - TEST PITS 103, 104, 105	1		

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: [signature] Date: 7/27/04
Printed Name: CORTEZ RAWLEY

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust	✓				
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: [signature] Date: 7/27/04
Printed Name: Jennifer A Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Lead

Lab #:	173572	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	07/21/04
Matrix:	Soil	Received:	07/22/04
Units:	mg/Kg	Prepared:	07/22/04
Diln Fac:	1.000	Analyzed:	07/23/04
Batch#:	93111		

Field ID	Type	Lab ID	Result	RL	Basis	Moisture
BB3SS103[6]	SAMPLE	173572-001	45	0.13	dry	11%
BB3SS103[4]	SAMPLE	173572-002	36	0.14	dry	7%
BB3SS103[2]	SAMPLE	173572-003	71	0.15	dry	23%
BB3SS104[2]	SAMPLE	173572-004	260	0.16	dry	11%
BB3SS104[4]	SAMPLE	173572-005	33	0.15	dry	11%
BB3SS104[6]	SAMPLE	173572-006	43	0.16	dry	11%
BB3SS105[2]	SAMPLE	173572-007	70	0.14	dry	7%
BB3SS105[4]	SAMPLE	173572-008	34	0.18	dry	12%
BB3SS105[6]	SAMPLE	173572-009	12	0.15	dry	15%
	BLANK	QC258686	ND	0.15	as received	

ND= Not Detected
RL= Reporting Limit

2.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Lead

Lab #:	173572	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	WET
Project#:	2893.12	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	07/21/04
Matrix:	WET Leachate	Received:	07/22/04
Units:	ug/L	Prepared:	07/28/04
Diln Fac:	1.000	Analyzed:	07/28/04
Batch#:	93248		

Field ID	Type	Lab ID	Result	RL
BB3SS103[6]	SAMPLE	173572-001	20,000	1,500
BB3SS103[4]	SAMPLE	173572-002	1,600	1,500
BB3SS103[2]	SAMPLE	173572-003	3,500	1,500
BB3SS104[2]	SAMPLE	173572-004	6,100	1,500
BB3SS104[4]	SAMPLE	173572-005	ND	1,500
BB3SS104[6]	SAMPLE	173572-006	2,100	1,500
BB3SS105[2]	SAMPLE	173572-007	2,200	1,500
BB3SS105[4]	SAMPLE	173572-008	ND	1,500
BB3SS105[6]	SAMPLE	173572-009	ND	1,500
	BLANK	QC259226	ND	1,500

ND= Not Detected
RL= Reporting Limit

6.0

SEVERN TRENT STL

Submission#: 2004-07-0769

Performance Excavators, Inc.

July 29, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Frank Cannizzaro

Project#: 408
Project: Presidio Baker Beach Areas 3 & 4

Dear Mr. Cannizzaro,

Attached is our report for your samples received on 07/26/2004 17:25
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/09/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-07-0769

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
072304-C1,-C2,-C3,-C4	07/26/2004 12:01	Soil	1

SEVERN TRENT STL

Submission: 2004-07-0769

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Prep(s):	3050B	Test(s):	6010B
Sample ID:	072304-C1,-C2,-C3,-C4	Lab ID:	2004-07-0769-1
Sampled:	07/26/2004 12:01	Extracted:	7/26/2004 16:39
Matrix:	Soil	QC Batch #:	2004/07/26-05a15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	7.3	0.50	mg/Kg	1.00	07/27/2004 21:03	
Chromium	120	1.0	mg/Kg	1.00	07/27/2004 21:03	
Lead	610	1.0	mg/Kg	1.00	07/27/2004 21:03	
Nickel	97	1.0	mg/Kg	1.00	07/27/2004 21:03	
Zinc	2400	1.0	mg/Kg	1.00	07/27/2004 21:03	

SEVERN TRENT STL

Submission: 2004-07-0769

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Batch QC Report

Prep(s): 3050B
Test(s): 6010B
Method Blank
Soil
QC Batch # 2004/07/26-05.15
MB: 2004/07/26-05.15-174
Date Extracted: 07/26/2004 17:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	07/27/2004 19:30	
Chromium	ND	1.0	mg/Kg	07/27/2004 19:30	
Lead	ND	1.0	mg/Kg	07/27/2004 19:30	
Nickel	ND	1.0	mg/Kg	07/27/2004 19:30	
Zinc	ND	1.0	mg/Kg	07/27/2004 19:30	

SEVERN TRENT STL

Submission: 2004-07-0769

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Batch QC Report

Prep(s): 3050B Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/07/26-05.15**

LCS 2004/07/26-05.15-175 Extracted: 07/26/2004 Analyzed: 07/27/2004 19:35
LCSD 2004/07/26-05.15-176 Extracted: 07/26/2004 Analyzed: 07/27/2004 19:39

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Cadmium	93.5	95.0	100.0	93.5	95.0	1.6	80-120	20		
Chromium	95.7	97.6	100.0	95.7	97.6	2.0	80-120	20		
Lead	94.6	95.4	100.0	94.6	95.4	0.8	80-120	20		
Nickel	94.7	96.5	100.0	94.7	96.5	1.9	80-120	20		
Zinc	94.5	98.0	100.0	94.5	98.0	3.6	80-120	20		

SEVERN TRENT STL

Submission: 2004-07-0769

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
072304-C1,-C2,-C3,-C4	07/26/2004 12:01	Soil	1

SEVERN TRENT STL

Submission: 2004-07-0769

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Prep(s):	3005A	Test(s):	6010B
Sample ID:	072304-C1,-C2,-C3,-C4	Lab ID:	2004-07-0769 - 1
Sampled:	07/26/2004 12:01	Extracted:	7/28/2004 19:18
Matrix:	Soil	QC Batch#:	2004/07/28-06.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	17	0.50	mg/L	1.00	07/28/2004 23:01	

SEVERN TRENT STL

Submission: 2004-07-0769

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Batch QC Report

Prep(s): 3005A
Method Blank
MB: 2004/07/28-06:15-143

Soil

Test(s): 6010B
QC Batch # 2004/07/28-06:15
Date Extracted: 07/28/2004 19:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	07/28/2004 22:47	

SEVERN TRENT STL

Submission: 2004-07-0769

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio Baker Beach Areas 3 & 4

Received: 07/26/2004 17:25

Batch QC Report

Prep(s): 3005A Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch #:2004/07/28-06.15**

LCS 2004/07/28-06.15-144 Extracted: 07/28/2004 Analyzed: 07/28/2004 22:52
LCSD 2004/07/28-06.15-145 Extracted: 07/28/2004 Analyzed: 07/28/2004 22:56

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.70	4.63	5.00	94.0	92.6	1.5	80-120	20		

Performance Excavators Inc.

103 Shoreline Pkwy, 201, San Rafael, CA 94901
Phone: (415) 257-4640 ● Fax: (415) 257-4644

2004-07-0769

Reference #: 88128

Date 7/26/04 Page 1 of 1

Report To

Attn: Frank Carnizzaro

Company: Performance Excavators Inc.

Address: 103 Shoreline Pkwy, 201 Elevy San Rafael, CA 94901

Phone: 415-257-4640 Email: frank@perf-ex.com

Bill To: Same as above | Sampled By: Jason

Attn: | Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preservative	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ MTBE ☐ BTEX	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Pipe Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ GC ☐ BTEX ☐ Five Oxygenates ☐ DCA, ☐ EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 608 ☐ EPA 608	Phenols by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☒ LUFT ☐ RCRA ☐ Other ___	☒ W E T (STLC) ☐ TCLP LEAD	Hexavalent Chromium ☐ ☐ pH (24h hold time)	Spec Cond ☐ ☐ TDS ☐ Alkalinity	Anions: ☐ Cl ☐ SO_4 ☐ F ☐ Br ☐ NO_3 ☐ PO_4	4:1 COMPOSITE				Number of Containers
072304-C1, -C2, -C3, -C4	7/23/04	1600	S													X	X				X				4
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						

RUSH

Project Info.

Project Name: Baker Beach Areas 3 & 4

Project#: 406

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 5°c

Conforms to record:

TAT: Std 5 Day | 72h | 48h | 24h

Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Task Fund EDF ☐ Global ID ___

Special Instructions / Comments:

E-mail results to frank@perf-ex.com

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time: 8am	Signature / Time: 1125	Signature / Time
Printed Name / Date: 7/26/04	Printed Name / Date: 7/26/04	Printed Name / Date
Company: Performance Excavators Inc.	Company: STL-SF	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time: 16:00	Signature / Time: 17:25	Signature / Time
Printed Name / Date: 7/26/04	Printed Name / Date: 7/26/04	Printed Name / Date
Company: STL-SF	Company: STL-SF	Company

Rev 11/02

Contractor's Submittal No. 1300-7E-A

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☑ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
STOCKPILE SAMPLING RESULTS (PILES "E" AND "F") SAMPLED 8/5/04	1	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

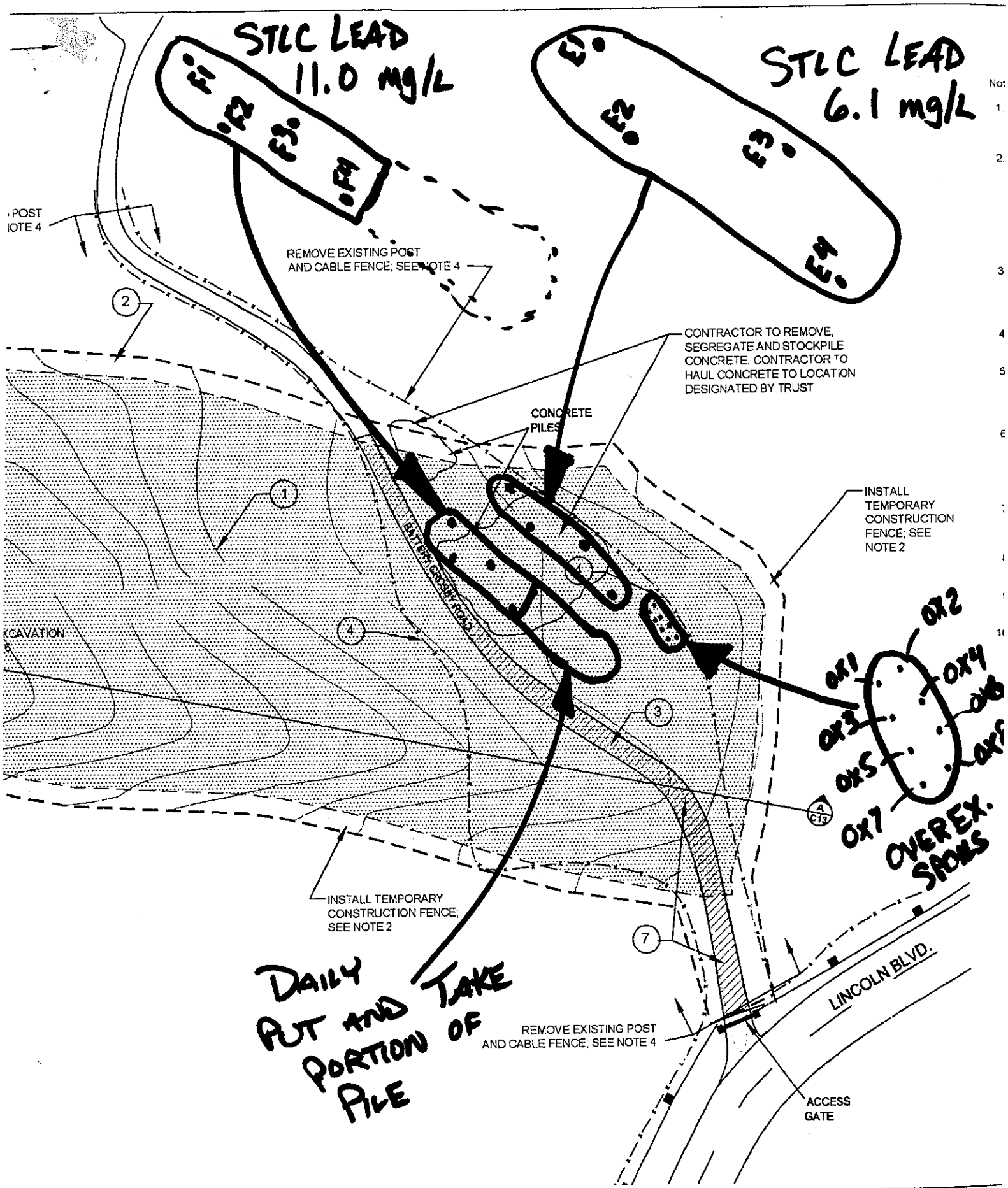
Signature: _____ Date: 8/10/04
Printed Name: CALEB RANEY

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust	JAY				
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: _____ Date: 8/10/04
Printed Name: JENNIFER A YATA

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	



construction drawings and specifications have
prepared in accordance with design criteria and
ments established by the Presidio Trust (Trust)
ational Park Service (NPS). The Trust
PS prefer that erosion control materials be
t to non-mechanical, biodegradable products and
he slopes be permitted to evolve under naturally
ing processes. Adherence to these criteria and
ments has resulted in a final design that will
result in slope instability typical of the natural
ine. The engineer-of-record, Minshew Minshew,
has discussed these issues with Trust and NPS
Trust and NPS staff understand and accept that
instability and erosion characteristic of the Pacific
line will likely occur.

DRAWING SCALE	1"=30'
DESIGNED BY:	WLM
DRAWN BY:	AG
CHECKED BY:	WLM/DCS
APPROVED BY:	WLM/DCS

Treadwell&Rollo
Environmental and Geotechnical Consultants
555 Montgomery Street, Suite 1300
San Francisco, California
(415) 955-9040

Minshew Engineering
Professional Civil Engineering and
Solid Waste Management Services

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

BAKER BEACH DISTU
CLEAN C
BBI
SITE PREPA
WASTE EXCA

EVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone. (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

2004-08-0131

Reference # 82426

Date 8/5/04 Page 1 of 1

Report To

Attn. Greg Ramey
Company Performance Excavators, Inc
Address 103 Shoreline Parkway
Phone 415-257-4640 Email Greg@perfex.com
Bill To Same
Sampled By Greg Ramey
Attn:
Phone 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015 8220/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8220/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Fingerprint (8260B) ☐ DCA, EDB Full Organics ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides (EPA 8081) PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	WET STLC LEAD TCLP	Hexavalent Chromium EPA 7196 (Water 1st H2O)	Spec Cond ☐ Alkalinity TSS ☐ ☐	Anions ☐ Cl ☐ SO4 ☐ NO3 ☐ F ☐ Br ☐ NO2 ☐ PO4	4 of Composite			
080504-DA3-F1	8/5/04		Soil	Ice									X			X	X				X			
080504-DA3-E2													X			X	X				X			
080504-DA3-E3													X			X	X				X			
080504-DA3-E4													X			X	X				X			
080504-DA3-F1													X			X	X				X			
080504-DA3-F2													X			X	X				X			
080504-DA3-F3													X			X	X				X			
080504-DA3-F4													X			X	X				X			

RUSH

Project Info.

Project Name: Presidio-Baker Beach
Project#: 408
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 3°C
Conforms to record:
Other:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:

Results Due Monday Morning 8/9/04

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time:	Signature: [signature] Time: 18:30	Signature: Time:
Printed Name: Greg Ramey Date: 8/5/04	Printed Name: R Allen Date: 8/5/04	Printed Name: Date:
Company: PEI	Company: STL-SF	Company:
1) Received by:	**2) Received by:**	**3) Received by:**
Signature: [signature] Time: 15:30	Signature: Time:	Signature: [signature] Time:
Printed Name: R Allen Date: 8/5/04	Printed Name: Date:	Printed Name: D Harrington Date: 8/5/04
Company: STL-SF	Company:	Company: STL-SF

Rev 04/02

SEVERN TRENT STL

Submission: 2004-08-0131

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
080504-DA3-E(1-4)	08/05/2004	Soil	1
080504-DA3-F(1-4)	08/05/2004	Soil	2

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**080504-DA3-E(1-4)**	Lab ID:	2004-08-0131 - 1
Sampled:	08/05/2004	Extracted:	8/6/2004 05:39
Matrix:	Soil	QC Batch#:	2004/08/06-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	55	1.0	mg/Kg	1.00	08/06/2004 11:52	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**080504-DA3-F(1-4)**	Lab ID:	2004-08-0131 - 2
Sampled:	08/05/2004	Extracted:	8/6/2004 05:39
Matrix:	Soil	QC Batch#:	2004/08/06-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	140	1.0	mg/Kg	1.00	08/06/2004 11:55	

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Method Blank

Soil

QC Batch # 2004/08/06-01.15

MB: 2004/08/06-01.15-029

Date Extracted: 08/06/2004 05:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	08/06/2004 10:29	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/08/06-01.15**

LCS 2004/08/06-01.15-012 Extracted: 08/06/2004 Analyzed: 08/06/2004 10:37
LCSD 2004/08/06-01.15-013 Extracted: 08/06/2004 Analyzed: 08/06/2004 10:41

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	99.8	96.6	100.0	99.8	96.6	3.3	80-120	20		

SEVERN TRENT STL

Submission: 2004-08-0131

Organochlorine Pesticides Analysis

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
080504-DA3-E(1-4)	08/05/2004	Soil	1
080504-DA3-F(1-4)	08/05/2004	Soil	2

Organochlorine Pesticides Analysis

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s): 3550/8081 Test(s): 8081
Sample ID: **080504-DA3-E(1-4)** Lab ID: 2004-08-0131 - 1
Sampled: 08/05/2004 Extracted: 8/6/2004 13:31
Matrix: Soil QC Batch#: 2004/08/06-01.13
Analysis Flag: sdo,lrn (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aldrin	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Dieldrin	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Endrin aldehyde	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Endrin	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Endrin ketone	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Heptachlor	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Heptachlor epoxide	ND	50	ug/Kg	25.00	08/07/2004 11:31	
4,4`-DDT	ND	50	ug/Kg	25.00	08/07/2004 11:31	
4,4`-DDE	ND	50	ug/Kg	25.00	08/07/2004 11:31	
4,4`-DDD	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Endosulfan I	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Endosulfan II	ND	50	ug/Kg	25.00	08/07/2004 11:31	
alpha-BHC	ND	50	ug/Kg	25.00	08/07/2004 11:31	
beta-BHC	ND	50	ug/Kg	25.00	08/07/2004 11:31	
gamma-BHC (Lindane)	ND	50	ug/Kg	25.00	08/07/2004 11:31	
delta-BHC	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Endosulfan sulfate	ND	50	ug/Kg	25.00	08/07/2004 11:31	
4,4`-Methoxychlor	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Toxaphene	ND	2500	ug/Kg	25.00	08/07/2004 11:31	
Chlordane (Technical)	ND	1300	ug/Kg	25.00	08/07/2004 11:31	
alpha-Chlordane	ND	50	ug/Kg	25.00	08/07/2004 11:31	
gamma-Chlordane	ND	50	ug/Kg	25.00	08/07/2004 11:31	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	NA	50-125	%	25.00	08/07/2004 11:31	
Decachlorobiphenyl (Pest/8081)	NA	46-142	%	25.00	08/07/2004 11:31	

Organochlorine Pesticides Analysis

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s): 3550/8081
Sample ID: **080504-DA3-F(1-4)**
Sampled: 08/05/2004
Matrix: Soil
Analysis Flag: sdo (See Legend and Note Section)

Test(s): 8081
Lab ID: 2004-08-0131 - 2
Extracted: 8/6/2004 13:31
QC Batch#: 2004/08/06-01.13

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aldrin	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Dieldrin	81	50	ug/Kg	25.00	08/07/2004 12:00	
Endrin aldehyde	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Endrin	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Endrin ketone	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Heptachlor	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Heptachlor epoxide	ND	50	ug/Kg	25.00	08/07/2004 12:00	
4,4`-DDT	99	50	ug/Kg	25.00	08/07/2004 12:00	
4,4`-DDE	86	50	ug/Kg	25.00	08/07/2004 12:00	
4,4`-DDD	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Endosulfan I	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Endosulfan II	ND	50	ug/Kg	25.00	08/07/2004 12:00	
alpha-BHC	ND	50	ug/Kg	25.00	08/07/2004 12:00	
beta-BHC	ND	50	ug/Kg	25.00	08/07/2004 12:00	
gamma-BHC (Lindane)	ND	50	ug/Kg	25.00	08/07/2004 12:00	
delta-BHC	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Endosulfan sulfate	ND	50	ug/Kg	25.00	08/07/2004 12:00	
4,4`-Methoxychlor	ND	50	ug/Kg	25.00	08/07/2004 12:00	
Toxaphene	ND	2500	ug/Kg	25.00	08/07/2004 12:00	
Chlordane (Technical)	ND	1300	ug/Kg	25.00	08/07/2004 12:00	
alpha-Chlordane	65	50	ug/Kg	25.00	08/07/2004 12:00	
gamma-Chlordane	67	50	ug/Kg	25.00	08/07/2004 12:00	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	NA	50-125	%	25.00	08/07/2004 12:00	
Decachlorobiphenyl (Pest/8081)	NA	46-142	%	25.00	08/07/2004 12:00	

Organochlorine Pesticides Analysis

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3550/8081 Test(s): 8081

Method Blank **Soil** **QC Batch # 2004/08/06-01.13**

MB: 2004/08/06-01.13-001 Date Extracted: 08/06/2004 13:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	08/06/2004 17:51	
Dieldrin	ND	2.0	ug/Kg	08/06/2004 17:51	
Endrin aldehyde	ND	2.0	ug/Kg	08/06/2004 17:51	
Endrin	ND	2.0	ug/Kg	08/06/2004 17:51	
Endrin ketone	ND	2.0	ug/Kg	08/06/2004 17:51	
Heptachlor	ND	2.0	ug/Kg	08/06/2004 17:51	
Heptachlor epoxide	ND	2.0	ug/Kg	08/06/2004 17:51	
4,4`-DDT	ND	2.0	ug/Kg	08/06/2004 17:51	
4,4`-DDE	ND	2.0	ug/Kg	08/06/2004 17:51	
4,4`-DDD	ND	2.0	ug/Kg	08/06/2004 17:51	
Endosulfan I	ND	2.0	ug/Kg	08/06/2004 17:51	
Endosulfan II	ND	2.0	ug/Kg	08/06/2004 17:51	
alpha-BHC	ND	2.0	ug/Kg	08/06/2004 17:51	
beta-BHC	ND	2.0	ug/Kg	08/06/2004 17:51	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	08/06/2004 17:51	
delta-BHC	ND	2.0	ug/Kg	08/06/2004 17:51	
Endosulfan sulfate	ND	2.0	ug/Kg	08/06/2004 17:51	
4,4`-Methoxychlor	ND	2.0	ug/Kg	08/06/2004 17:51	
Toxaphene	ND	100	ug/Kg	08/06/2004 17:51	
Chlordane (Technical)	ND	50	ug/Kg	08/06/2004 17:51	
alpha-Chlordane	ND	2.0	ug/Kg	08/06/2004 17:51	
gamma-Chlordane	ND	2.0	ug/Kg	08/06/2004 17:51	
Surrogates(s)					
2,4,5,6-Tetrachloro-m-xylene	96.5	50-125	%	08/06/2004 17:51	
Decachlorobiphenyl (Pest/8081)	81.3	46-142	%	08/06/2004 17:51	

Organochlorine Pesticides Analysis

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3550/8081

Test(s): 8081

Laboratory Control Spike **Soil** **QC Batch # 2004/08/06-01.13**

LCS 2004/08/06-01.13-002 Extracted: 08/06/2004 Analyzed: 08/06/2004 18:13

LCSD 2004/08/06-01.13-003 Extracted: 08/06/2004 Analyzed: 08/07/2004 10:04

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Aldrin	16.7	16.2	16.5	101.2	98.2	3.0	37-136	35		
Dieldrin	16.7	16.0	16.5	101.2	97.0	4.2	58-135	35		
Endrin	17.4	16.2	16.5	105.5	98.2	7.2	58-134	35		
Heptachlor	17.4	16.3	16.5	105.5	98.8	6.6	40-136	35		
4,4`-DDT	14.6	14.4	16.5	88.5	87.3	1.4	55-132	35		
gamma-BHC (Lindane)	17.5	17.1	16.5	106.1	103.6	2.4	37-137	35		
Surrogates(s)										
2,4,5,6-Tetrachloro-m-xylene	46.5	46.3	50	93.1	92.6		50-125	0		
Decachlorobiphenyl	38.8	40.1	50	77.6	80.3		46-142	0		

Organochlorine Pesticides Analysis

Performance Excavators, Inc.

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103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
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Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Legend and Notes

Analysis Flag

lrn

Reporting limits raised due to high level of non-target analyte materials.

sdo

Surrogate(s) diluted out

SEVERN TRENT STL

Submission: 2004-08-0131

PCBs

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
080504-DA3-E(1-4)	08/05/2004	Soil	1
080504-DA3-F(1-4)	08/05/2004	Soil	2

PCBs

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s): 3550/8082
Test(s): 8082
Sample ID: **080504-DA3-E(1-4)**
Lab ID: 2004-08-0131 - 1
Sampled: 08/05/2004
Extracted: 8/6/2004 15:07
Matrix: Soil
QC Batch#: 2004/08/06-02.14
Analysis Flag: Irn (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1016	ND	500	ug/Kg	10.00	08/07/2004 10:55	
Aroclor 1221	ND	500	ug/Kg	10.00	08/07/2004 10:55	
Aroclor 1232	ND	500	ug/Kg	10.00	08/07/2004 10:55	
Aroclor 1242	ND	500	ug/Kg	10.00	08/07/2004 10:55	
Aroclor 1248	ND	500	ug/Kg	10.00	08/07/2004 10:55	
Aroclor 1254	ND	500	ug/Kg	10.00	08/07/2004 10:55	
Aroclor 1260	ND	500	ug/Kg	10.00	08/07/2004 10:55	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	NA	50-125	%	10.00	08/07/2004 10:55	
Decachlorobiphenyl (PCB/8082)	NA	46-142	%	10.00	08/07/2004 10:55	

PCBs

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s): 3550/8082
Test(s): 8082
Sample ID: **080504-DA3-F(1-4)**
Lab ID: 2004-08-0131 - 2
Sampled: 08/05/2004
Extracted: 8/6/2004 15:07
Matrix: Soil
QC Batch#: 2004/08/06-02.14
Analysis Flag: Irn (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1016	ND	500	ug/Kg	10.00	08/07/2004 11:15	
Aroclor 1221	ND	500	ug/Kg	10.00	08/07/2004 11:15	
Aroclor 1232	ND	500	ug/Kg	10.00	08/07/2004 11:15	
Aroclor 1242	ND	500	ug/Kg	10.00	08/07/2004 11:15	
Aroclor 1248	ND	500	ug/Kg	10.00	08/07/2004 11:15	
Aroclor 1254	ND	500	ug/Kg	10.00	08/07/2004 11:15	
Aroclor 1260	ND	500	ug/Kg	10.00	08/07/2004 11:15	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	NA	50-125	%	10.00	08/07/2004 11:15	
Decachlorobiphenyl (PCB/8082)	NA	46-142	%	10.00	08/07/2004 11:15	

PCBs

Performance Excavators, Inc.
Attn.: Greg Rainey

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San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Legend and Notes

Analysis Flag

Irn

Reporting limits raised due to high level of non-target analyte materials.

SEVERN TRENT STL

Submission: 2004-08-0131

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
080504-DA3-E(1-4)	08/05/2004	Soil	1
080504-DA3-F(1-4)	08/05/2004	Soil	2

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**080504-DA3-E(1-4)**	Lab ID:	2004-08-0131 - 1
Sampled:	08/05/2004	Extracted:	8/9/2004 05:41
Matrix:	Soil	QC Batch#:	2004/08/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.1	0.50	mg/L	1.00	08/09/2004 09:12	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**080504-DA3-F(1-4)**	Lab ID:	2004-08-0131 - 2
Sampled:	08/05/2004	Extracted:	8/9/2004 05:41
Matrix:	Soil	QC Batch#:	2004/08/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	11	0.50	mg/L	1.00	08/09/2004 09:17	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Method Blank

Soil

QC Batch # 2004/08/09-02.15

MB: 2004/08/09-02.15-011

Date Extracted: 08/09/2004 05:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	08/09/2004 08:40	

SEVERN TRENT STL

Submission: 2004-08-0131

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/08/09-02.15**

LCS 2004/08/09-02.15-012 Extracted: 08/09/2004 Analyzed: 08/09/2004 08:44

LCSD 2004/08/09-02.15-013 Extracted: 08/09/2004 Analyzed: 08/09/2004 08:48

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.87	4.89	5.00	97.4	97.8	0.4	80-120	20		

FAXED 9/8/04

Jen Yata 561-2132

THE PRESIDIO TRUST

Contractor's Submittal No. 1300-7E-B

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☒ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
Stockpile samples for Hot Spot Excavation (Sample date 9/2/04)	1	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: _____ Date: 9/8/04
Printed Name: Frank P. Cavallaro

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust					
Treadwell & Rollo	✓				
Minshew Engineering					
Other					

Signature: _____ Date: 9/14/04
Printed Name: Jennifer Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

SEVERN TRENT STL

Submission#: 2004-09-0080

Performance Excavators, Inc.

September 08, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Frank Cannizzaro

Project#: 408
Project: Baker Beach Areas 3&4

Dear Mr. Cannizzaro,

Attached is our report for your samples received on 09/02/2004 18:10
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/17/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-09-0080

Total Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
090204-D1,D2,D3,D4	09/02/2004	Soil	1

Total Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**090204-D1,D2,D3,D4**	Lab ID:	2004-09-0080 - 1
Sampled:	09/02/2004	Extracted:	9/3/2004 15:30
Matrix:	Soil	QC Batch#:	2004/09/03-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	8.2	1.0	mg/Kg	1.00	09/07/2004 10:26	

Total Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Batch QC Report

Prep(s): 3050B
Method Blank
MB: 2004/09/03-04.15-019

Soil

Test(s): 6010B
QC Batch # 2004/09/03-04.15
Date Extracted: 09/03/2004 15:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	09/07/2004 09:56	

Total Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/03-04.15**

LCS 2004/09/03-04.15-020 Extracted: 09/03/2004 Analyzed: 09/07/2004 10:00
LCSD 2004/09/03-04.15-023 Extracted: 09/03/2004 Analyzed: 09/07/2004 10:16

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	96.0	95.9	100.0	96.0	95.9	0.1	80-120	20		

SEVERN TRENT STL

Submission: 2004-09-0080

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
090204-D1,D2,D3,D4	09/02/2004	Soil	1

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

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Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**090204-D1,D2,D3,D4**	Lab ID:	2004-09-0080 - 1
Sampled:	09/02/2004	Extracted:	9/7/2004 05:09
Matrix:	Soil	QC Batch#:	2004/09/07-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	0.50	mg/L	1.00	09/07/2004 09:47	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
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San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Batch QC Report

Prep(s): 3005A
Method Blank
MB: 2004/09/07-01.15-011

Soil

Test(s): 6010B
QC Batch # 2004/09/07-01.15
Date Extracted: 09/07/2004 05:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	09/07/2004 09:15	

SEVERN TRENT STL

Submission: 2004-09-0080

CAM W.E.T. (STLC) Lead

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Attn.: Frank Cannizzaro

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Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/07-01.15**

LCS 2004/09/07-01.15-012 Extracted: 09/07/2004 Analyzed: 09/07/2004 09:20
LCSD 2004/09/07-01.15-013 Extracted: 09/07/2004 Analyzed: 09/07/2004 09:25

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.87	4.83	5.00	97.4	96.6	0.8	80-120	20		

SEVERN TRENT STL

Submission: 2004-09-0080

TCLP Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
090204-D1,D2,D3,D4	09/02/2004	Soil	1

TCLP Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Prep(s):	3010A	Test(s):	6010B
Sample ID:	**090204-D1,D2,D3,D4**	Lab ID:	2004-09-0080 - 1
Sampled:	09/02/2004	Extracted:	9/8/2004 05:28
Matrix:	Soil	QC Batch#:	2004/09/08-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	0.50	mg/L	1.00	09/08/2004 08:30	

TCLP Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Batch QC Report

Prep(s): 1311/3010A
Method Blank
MB: 2004/09/08-02.15-020

Soil

Test(s): 6010B
QC Batch # 2004/09/08-02.15
Date Extracted: 09/08/2004 05:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	09/08/2004 08:03	

TCLP Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Batch QC Report

Prep(s): 1311/3010A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/08-02.15**

LCS 2004/09/08-02.15-023 Extracted: 09/08/2004 Analyzed: 09/08/2004 08:21
LCSD 2004/09/08-02.15-024 Extracted: 09/08/2004 Analyzed: 09/08/2004 08:25

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.98	4.90	5.00	99.6	98.0	1.6	80-120	20		

TCLP Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 09/02/2004 18:10

Batch QC Report

Prep(s): 1311/3010A

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/09/08-02.15**

090204-D1,D2,D3,D4 >> MS

Lab ID: 2004-09-0080 - 001

MS: 2004/09/08-02.15-026 Extracted: 09/08/2004 Analyzed: 09/08/2004 08:34
Dilution: 1.00

MSD: 2004/09/08-02.15-027 Extracted: 09/08/2004 Analyzed: 09/08/2004 08:39
Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	4.95	4.98	ND	5.00	99.0	99.6	0.6	75-125	20		

Performance Excavators Inc. 103 Shoreline Pkwy, 201, San Rafael, CA 94901
Phone: (415) 257-4640 • Fax: (415) 257-4644

Reference #: 88513

2004-09-0080

Date 9/2/04 Page 1 of 1

Report To

Attn: Frank Cannizzaro

Company: Performance Excavators Inc

Address: 103 Shoreline Pkwy, 2nd Floor, San Rafael, Ca 94901

Phone: 415-257-4640 Email: frank@perf-ex.com

Bill To: Same as above Sampled By: Cliff

Attn: Frank Cannizzaro Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ 608 ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	☐ W.E.T (STLC) LEAD ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O_2)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 COMPOSITE				Number of Containers
090204-D1,D2,D3,D4	9/2/04		S												X	X				X					4
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						

RUSH

Project Info.

Project Name: Baker Beach Areas 3 & 4

Project#: 408

PO#:

Credit Card#:

Sample Receipt

of Containers: 4

Head Space:

Temp: 5

Conforms to record:

Other

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

E-mail results to frank@perf-ex.com

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time: Cliff Busekist	Signature / Time: 18:10	Signature / Time:
Printed Name / Date: Cliff Busekist 9/02/04	Printed Name / Date: 09-02-04	Printed Name / Date:
Company: Performance Excavators Inc.	Company: STL S.F	Company:

1) Received by:	2) Received by:	3) Received by:
Signature / Time:	Signature / Time: 18:10	Signature / Time:
Printed Name / Date: Musa 1510 09-02 04	Printed Name / Date: T. Bullock 9/2/04	Printed Name / Date:
Company: STLSF	Company: STL-SF	Company:

Rev 07/02

Contractor's Submittal No. 1300-7F-A

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☑ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
STOCKPILE SAMPLING RESULTS - OVEREXCAVATION SPOILS SAMPLED 8/5/04	1	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

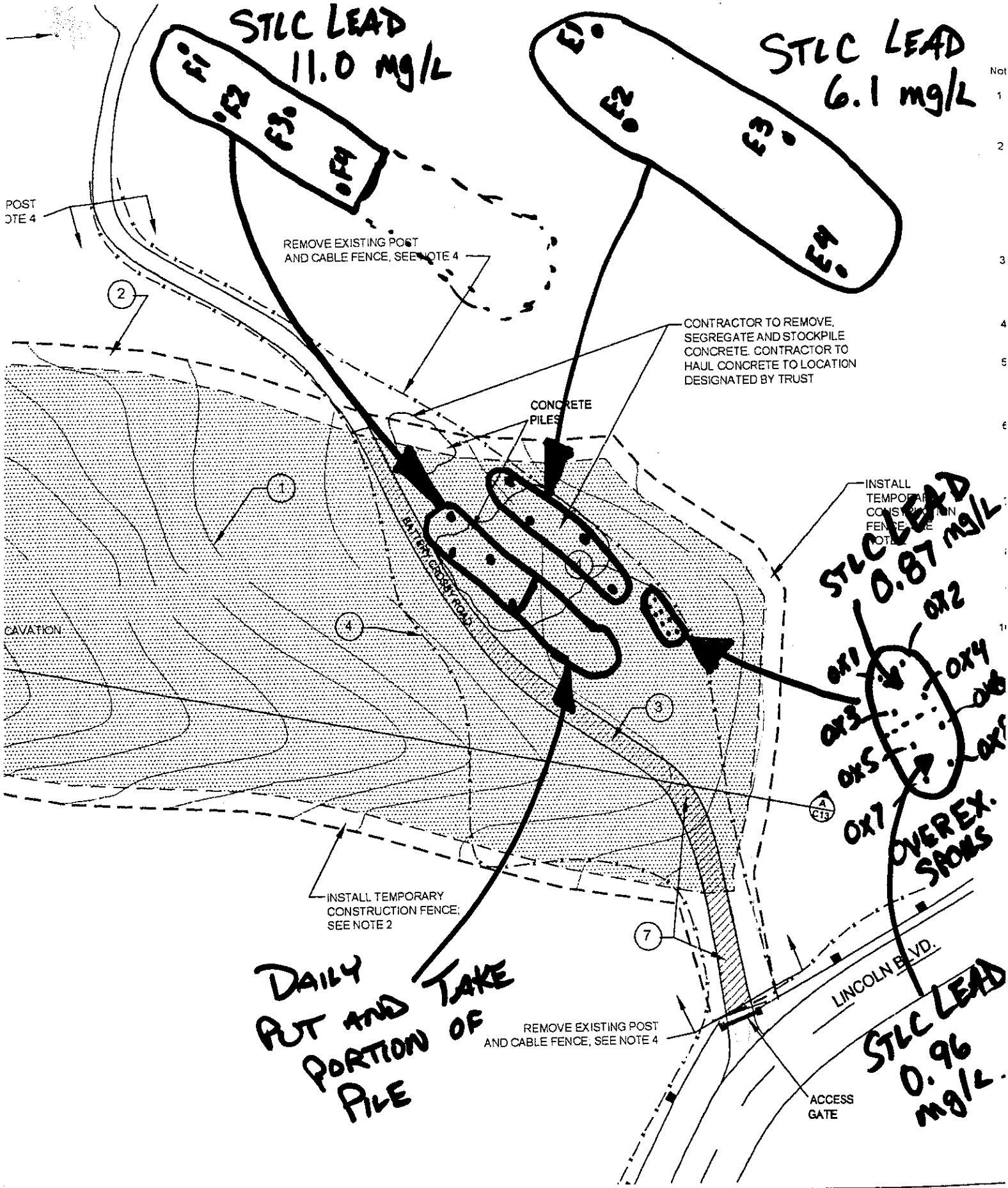
Signature: [signature] Date: 8/10/04
Printed Name: CORTEZ RAWLEY

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust	[signature]				
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: [signature] Date: 8/10/04
Printed Name: JENNIFER A YATA

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	



DRAWING SCALE 1" = 30'		
DESIGNED BY:	WLM	
DRAWN BY:	AG	
CHECKED BY:	WLM/DCS	
APPROVED BY:	WLM/DCS	

Treadwell & Rollo
Environmental and Geotechnical Consultants
555 Montgomery Street, Suite 1300
San Francisco, California
(415) 955-9040

Minshew Engineering
Professional Civil Engineering and Solid Waste Management Services

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315

BAKER BEACH DISTU
CLEAN C
BBI
SITE PREPA
WASTE EXCA

SEVERN TRENT STL

Submission#: 2004-08-0130

Performance Excavators, Inc.

August 09, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Greg Rainey

Project#: 408
Project: Presidio - Baker Beach

Dear Greg,

Attached is our report for your samples received on 08/05/2004 18:30
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/19/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-08-0130

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
080504-OX(1-4)	08/05/2004	Soil	1
080504-OX(5-8)	08/05/2004	Soil	2

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**080504-OX(1-4)**	Lab ID:	2004-08-0130 - 1
Sampled:	08/05/2004	Extracted:	8/6/2004 05:39
Matrix:	Soil	QC Batch#:	2004/08/06-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	15	1.0	mg/Kg	1.00	08/06/2004 11:38	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**080504-OX(5-8)**	Lab ID:	2004-08-0130 - 2
Sampled:	08/05/2004	Extracted:	8/6/2004 05:39
Matrix:	Soil	QC Batch#:	2004/08/06-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	15	1.0	mg/Kg	1.00	08/06/2004 11:48	

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3050B
Test(s): 6010B

Method Blank **Soil** **QC Batch # 2004/08/06-01.15**

MB: 2004/08/06-01.15-029
Date Extracted: 08/06/2004 05:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	08/06/2004 10:29	

SEVERN TRENT STL

Submission: 2004-08-0130

Total Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/08/06-01.15**

LCS 2004/08/06-01.15-012 Extracted: 08/06/2004 Analyzed: 08/06/2004 10:37

LCSD 2004/08/06-01.15-013 Extracted: 08/06/2004 Analyzed: 08/06/2004 10:41

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	99.8	96.6	100.0	99.8	96.6	3.3	80-120	20		

SEVERN TRENT STL

Submission: 2004-08-0130

Total Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/08/06-01.15**

080504-OX(1-4) >> MS

Lab ID: 2004-08-0130 - 001

MS: 2004/08/06-01.15-027 Extracted: 08/06/2004 Analyzed: 08/06/2004 11:41
Dilution: 1.00

MSD: 2004/08/06-01.15-028 Extracted: 08/06/2004 Analyzed: 08/06/2004 11:45
Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	100	98.5	15.0	98.0	86.7	86.0	0.8	75-125	20		

SEVERN TRENT STL

Submission: 2004-08-0130

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.

Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
080504-OX(1-4)	08/05/2004	Soil	1
080504-OX(5-8)	08/05/2004	Soil	2

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**080504-OX(1-4)**	Lab ID:	2004-08-0130 - 1
Sampled:	08/05/2004	Extracted:	8/9/2004 05:41
Matrix:	Soil	QC Batch#:	2004/08/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.87	0.50	mg/L	1.00	08/09/2004 08:52	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**080504-OX(5-8)**	Lab ID:	2004-08-0130 - 2
Sampled:	08/05/2004	Extracted:	8/9/2004 05:41
Matrix:	Soil	QC Batch#:	2004/08/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.96	0.50	mg/L	1.00	08/09/2004 09:08	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3005A
Test(s): 6010B

Method Blank **Soil** **QC Batch # 2004/08/09-02.15**

MB: 2004/08/09-02.15-011
Date Extracted: 08/09/2004 05:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	08/09/2004 08:40	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/08/09-02.15**

LCS 2004/08/09-02.15-012 Extracted: 08/09/2004 Analyzed: 08/09/2004 08:44
LCSD 2004/08/09-02.15-013 Extracted: 08/09/2004 Analyzed: 08/09/2004 08:48

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.87	4.89	5.00	97.4	97.8	0.4	80-120	20		

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Greg Rainey

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Presidio - Baker Beach

Received: 08/05/2004 18:30

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/08/09-02.15**

080504-OX(1-4) >> MS

Lab ID: 2004-08-0130 - 001

MS: 2004/08/09-02.15-015 Extracted: 08/09/2004 Analyzed: 08/09/2004 08:57
Dilution: 1.00

MSD: 2004/08/09-02.15-016 Extracted: 08/09/2004 Analyzed: 08/09/2004 09:03
Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	5.54	5.68	0.871	5.00	93.4	96.2	3.0	75-125	20		

STL

STL San Francisco

Sample Receipt Checklist

Submission #:2004- 08 - 0130

Checklist completed by: (initials) DSH Date: 08 / 05 /04

Courier name: ☒ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples	Yes____	No____	Not Present ✓
Chain of custody present?	Yes ✓	No____	
Chain of custody signed when relinquished and received?	Yes ✓	No____	
Chain of custody agrees with sample labels?	Yes ✓	No____	
Samples in proper container/bottle?	Yes ✓	No____	
Sample containers intact?	Yes ✓	No____	
Sufficient sample volume for indicated test?	Yes ✓	No____	
All samples received within holding time?	Yes ✓	No____	
Container/Temp Blank temperature in compliance (4° C ± 2)?	Temp: 3 °C	Yes ✓	No____
	Ice Present	Yes ✓	No____
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes____	No____

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O)

Water - pH acceptable upon receipt? ☐ Yes ☐ No None

☐ pH adjusted- Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/04

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

EVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

2004-08-0130

Reference #: 88427

Date 08/5/04 Page 1 of 1

Report To

Attn. Greg Rainey
Company Performance Excavators Inc
Address 1673 Shoreline Park
Phone 415 257 4640 Email Greg@Perf-Ex.Com
Bill To Same
Sampled By: Greg Rainey
Attn: Greg Rainey
Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH (EPA 8015 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B) ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides (EPA 8081) PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM 17 Metals (EPA 6010/7470/7471)	Metals ☐ LUFT ☐ RCRA ☐ Other	WET (STLC) (TCLP) Lead	Hexavalent Chromium 24h (EPA Additive to H_2O)	Specific Cond. ☐ Alkalinity TDS	Anions ☐ Cl ☐ SO4 ☐ NO3 ☐ F ☐ Br ☐ NO2 ☐ PO4	4.1 Corrosivity				Number of Containers
080504-OX1	8/5/04		Soil	Ice												X	X				X				
080504-OX2																X	X				X				
080504-OX3																X	X				X				
080504-OX4																X	X				X				
080504-OX5																X	X				X				
080504-OX6																X	X				X				
080504-OX7																X	X				X				
080504-OX8																X	X				X				

RUSH

Project Info.

Project Name: Presidio - Baker Beach
Project#: 408
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 3°C
Conforms to record
Other

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD

Special Instructions / Comments:

RESULTS DUE 8/9/04 (MONDAY) MORNING

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time:	Signature: [signature] Time: 18:30	Signature: Time:
Printed Name: Greg Rainey Date: 8/5/04	Printed Name: R Allen Date: 8/5/04	Printed Name: Date:
Company: PEI	Company: STL-SF	Company:

1) Received by	2) Received by	3) Received by
Signature: Rodney Allen Time: 15:30	Signature: Time:	Signature: Denise Harrington Time:
Printed Name: R Allen Date: 8/5/04	Printed Name: Date:	Printed Name: D Harrington Date: 1830
Company: STL-SF	Company:	Company: STL-SF 8/5/04

Rev 01/02

FAXED 9/8/04

Jen Yata 561-2132

Contractor's Submittal No. BW-2.5-B

THE PRESIDIO TRUST

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☒ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
test results for soil from tree roots. (sample date 8/25/04)	1	BW-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: _____ Date: 9/8/04
Printed Name: FRANK P. CANNIZZARO

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust	—				
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: _____ Date: 9/14/04
Printed Name: Jennifer A. Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

SEVERN TRENT STL

Submission#: 2004-08-0656

RECEIVED
SEP 07 2004
PERF-EX

Performance Excavators, Inc.

August 31, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Frank Cannizzaro

Project#: 408
Project: Baker Beach Areas 3&4

Dear Mr. Cannizzaro,

Attached is our report for your samples received on 08/25/2004 18:35
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/09/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-08-0656

CAM W.E.T. (STLC) Metals

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
082504-T1	08/25/2004	Soil	1

CAM W.E.T. (STLC) Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Prep(s):	CA W.E.T./3005A	Test(s):	6020
Sample ID:	**082504-T1**	Lab ID:	2004-08-0656 - 1
Sampled:	08/25/2004	Extracted:	8/30/2004 06:13
Matrix:	Soil	QC Batch#:	2004/08/30-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	2.8	0.50	mg/L	1.00	08/30/2004 15:48	

CAM W.E.T. (STLC) Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Batch QC Report

Prep(s): CA W.E.T./3005A

Test(s): 6020

Method Blank

Soil

QC Batch # 2004/08/30-01.15

MB: 2004/08/30-01.15-001

Date Extracted: 08/30/2004 06:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	08/30/2004 14:53	

SEVERN TRENT STL

Submission: 2004-08-0656

CAM W.E.T. (STLC) Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Batch QC Report

Prep(s): CA W.E.T./3005A

Test(s): 6020

Laboratory Control Spike **Soil** **QC Batch # 2004/08/30-01.15**

LCS 2004/08/30-01.15-002 Extracted: 08/30/2004 Analyzed: 08/30/2004 15:41

LCSD 2004/08/30-01.15-003 Extracted: 08/30/2004 Analyzed: 08/30/2004 15:44

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.95	4.73	5	99.0	94.6	4.5	80-120	20		

SEVERN TRENT STL

Submission: 2004-08-0656

Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
082504-T1	08/25/2004	Soil	1

Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Prep(s):	3050B	Test(s):	6020
Sample ID:	**082504-T1**	Lab ID:	2004-08-0656 - 1
Sampled:	08/25/2004	Extracted:	8/25/2004 09:14
Matrix:	Soil	QC Batch#:	2004/08/25-V2.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	98	1.0	mg/Kg	1.00	08/26/2004 14:10	

Metals

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Batch QC Report

Prep(s): 3050B

Test(s): 6020

Method Blank

Soil

QC Batch # 2004/08/25-V2.15

MB: 2004/08/25-V2.15-001

Date Extracted: 08/25/2004 09:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	08/26/2004 12:17	

Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 08/25/2004 18:35

Batch QC Report

Prep(s): 3050B

Test(s): 6020

Laboratory Control Spike **Soil** **QC Batch # 2004/08/25-V2.15**

LCS 2004/08/25-V2.15-002 Extracted: 08/25/2004 Analyzed: 08/26/2004 12:40

LCSD 2004/08/25-V2.15-003 Extracted: 08/25/2004 Analyzed: 08/26/2004 12:43

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	98.6	97.6	100	98.6	97.6	1.0	80-120	20		

Performance Excavators Inc. 103 Shoreline Pkwy, 201, San Rafael, CA 94901
Phone: (415) 257-4640 ● Fax: (415) 257-4644

2004-08-0656

Reference #: 90366

Date 8/25/04 Page 1 of 1

Report To

Attn: Frank Cannizzaro

Company: Performance Excavators Inc.

Address: 103 Shoreline Pkwy, 2nd Floor, San Rafael, Ca 94901

Phone: 415-257-4640 Email: frank@perf-ex.com

Bill To: Same as above Sampled By: Jason

Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ 608 ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☒ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☒ W.E.T (STLC) LEAD ☐ TCLP ☐	Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐	Spec Cond. ☐ Alkalinity TSS ☐ TDS ☐ ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 COMPOSITE				Number of Containers
082504-T1	8/25/04		S													X	X								1
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						

RUSH

Project Info.

Project Name: Baker Beach Areas 3 & 4

Project#: 408

PO#:

Credit Card#:

Sample Receipt

of Containers: 1

Head Space:

Temp: 6°C

Conforms to record:

TAT: Std 5 Day | (72h) | 48h | 24h

Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

E-mail results to frank@perf-ex.com

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time: 1305	Signature / Time: 1835	Signature / Time
Jason Goldsbrough / 8/25/04 (Printed Name / Date)	MUSA (Printed Name) / 08-25-04 (Date)	Printed Name / Date
Performance Excavators Inc. (Company)	STL S.F (Company)	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time: 1305	Signature / Time: 1835	Signature / Time
MUSA (Printed Name) / 08-25-04 (Date)	T. BULLOCK (Printed Name) / 8/25/04 (Date)	Printed Name / Date
STL S.F (Company)	STL-SF (Company)	Company

Rev 01/02

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2004- C8 - C656

Checklist completed by: (initials) [illegible] Date: 8 / 25/04

Courier name: ☒ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples	Yes____	No____	Not Present ✓
Chain of custody present?	Yes ✓	No____	
Chain of custody signed when relinquished and received?	Yes ✓	No____	
Chain of custody agrees with sample labels?	Yes ✓	No____	
Samples in proper container/bottle?	Yes ✓	No____	
Sample containers intact?	Yes ✓	No____	
Sufficient sample volume for indicated test?	Yes ✓	No____	
All samples received within holding time?	Yes ✓	No____	
Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 6 °C	Yes ✓	No____	

Potential reason for > 6°C – Ice melted ☐ Ice in bags ☐ Not enough ice ☐ Not enough blue ice ☐ Samples in boxes ☐

Sampled < 4hr. ago? ☐ Ice not required (e.g. air or bulk sample) ☐

Ice Present Yes ✓ No____

Water - VOA vials have zero headspace? Soil No VOA vials submitted ✓ Yes____ No____

(if bubble is present, refer to approximate bubble size and itemize in comments as **S** (small ~O), **M** (medium ~ O) or **L** (large ~ O))

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –**Lot #(s)** _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/04 Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX109[0.5]	Batch#:	93531
Lab ID:	173875-001	Sampled:	08/06/04
Matrix:	Soil	Received:	08/06/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.8
beta-BHC	ND	1.8
gamma-BHC	ND	1.8
delta-BHC	ND	1.8
Heptachlor	ND	1.8
Aldrin	ND	1.8
Heptachlor epoxide	ND	1.8
Endosulfan I	ND	1.8
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND b	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.8
gamma-Chlordane	ND	1.8
Methoxychlor	ND	18
Toxaphene	ND	62

Surrogate	%REC		Limits
TCMX	190	*	65-135
Decachlorobiphenyl	159	*	65-135

*= Value outside of QC limits; see narrative
b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX110[0.5]	Batch#:	93531
Lab ID:	173875-002	Sampled:	08/06/04
Matrix:	Soil	Received:	08/06/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 2% Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.4
4,4'-DDE	ND	3.4
Endrin	ND b	3.4
Endosulfan II	ND	3.4
Endosulfan sulfate	ND	3.4
4,4'-DDD	ND	3.4
Endrin ketone	ND	3.4
4,4'-DDT	ND	3.4
Chlordane (Technical)	ND	31
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	119	65-135
Decachlorobiphenyl	103	65-135

b= See narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC260340	Batch#:	93531
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/07/04
Basis:	as received		

Cleanup Method: EPA 3260B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	3.3
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin ketone	ND	3.3
4,4'-DDT	ND	3.3
Chlordane (Technical)	ND	30
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	59

Surrogate	%REC	Limits
TCMX	139 *	65-135
Decachlorobiphenyl	128	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC260341	Batch#:	93531
Matrix:	Soil	Prepared:	08/06/04
Units:	ug/Kg	Analyzed:	08/09/04
Basis:	as received		

Cleanup Method: EPA 3260B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	16.87	17.66 b	105	65-135
Heptachlor	16.87	19.58	116	65-135
Aldrin	16.87	18.57	110	65-135
Dieldrin	16.87	18.47	109	65-135
Endrin	16.87	18.46 b	109	65-135
4,4'-DDT	16.87	18.97	112	65-135

Surrogate	%REC	Limits
TCMX	149 *	65-135
Decachlorobiphenyl	135	65-135

*= Value outside of QC limits; see narrative
b= See narrative

Curtis & Tompkins, Ltd.

Batch QC Report

Organochlorine Pesticides

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	DUP080504A	Batch#:	93531
MSS Lab ID:	173857-002	Sampled:	08/05/04
Matrix:	Soil	Received:	08/05/04
Units:	ug/Kg	Prepared:	08/06/04
Basis:	as received	Analyzed:	08/09/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3260B
Lab ID: QC260342

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5900	16.89	17.09 b	101	65-135
Heptachlor	<0.5300	16.89	18.43	109	65-135
Aldrin	<0.5800	16.89	17.61	104	65-135
Dieldrin	<1.500	16.89	17.08	101	65-135
Endrin	<1.600	16.89	17.08 b	101	65-135
4,4'-DDT	<1.700	16.89	18.27	108	65-135

Surrogate	%REC	Limits
TCMX	142 *	65-135
Decachlorobiphenyl	114	65-135

Type: MSD Cleanup Method: EPA 3260B
Lab ID: QC260343

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	16.89	16.59 b	98	65-135	3	35
Heptachlor	16.89	18.50	110	65-135	0	35
Aldrin	16.89	17.23	102	65-135	2	35
Dieldrin	16.89	16.90	100	65-135	1	35
Endrin	16.89	17.04 b	101	65-135	0	35
4,4'-DDT	16.89	17.88	106	65-135	2	35

Surrogate	%REC	Limits
TCMX	142 *	65-135
Decachlorobiphenyl	119	65-135

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/06/04
Units:	ug/Kg	Received:	08/06/04
Diln Fac:	1.000	Prepared:	08/10/04
Batch#:	93632	Analyzed:	08/11/04

Field ID:	BB3EX109[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	3%
Lab ID:	173875-001	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	25
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	74	65-135
Decachlorobiphenyl	68	65-135

Field ID:	BB3EX110[0.5]	Basis:	dry
Type:	SAMPLE	Moisture:	2%
Lab ID:	173875-002	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	78	65-135

Type:	BLANK	Basis:	as received
Lab ID:	QC260723	Cleanup Method:	EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	80	65-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	173875	Location:	Presidio
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX110[0.5]	Batch#:	93570
Lab ID:	173875-002	Sampled:	08/06/04
Matrix:	Soil	Received:	08/06/04
Units:	mg/Kg	Prepared:	08/09/04
Basis:	dry	Analyzed:	08/09/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	2.6	0.25
Barium	29	0.50
Beryllium	ND	0.099
Cadmium	ND	0.25
Chromium	57	0.50
Cobalt	6.8	0.99
Copper	5.8	0.50
Lead	9.4	0.15
Molybdenum	ND	0.99
Nickel	42	0.99
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	39	0.50
Zinc	28	0.99

ND= Not Detected
RL= Reporting Limit

173875

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

[X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
[ ] 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
[ ] 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio - Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sigrid Reinis
Samplers: Mike Chamberlain
Recorder (Signature Required): [signature] (MAC)

Turnaround Time: 24 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	Metals	Silica gel clean-up	Hold	Remarks
-1 BB3EX109[0.5]	8/6/04	1323		X						1		X	X	X			
-2 BB3EX110[0.5]	8/6/04	1330		X						1		X	X	X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	8/6/04	1405	[signature]	8/6/04	1405
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes: send login to Colleen Haradon @ SF office

Method of Shipment: [X] Lab courier [ ] Fed Ex [ ] Airborne [ ] UPS [ ] Hand Carried [ ] Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002236

5

Curtis & Tompkins, Ltd.

Organochlorine Pesticides

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3550
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX121[0.5]	Batch#:	94186
Lab ID:	174320-006	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	ug/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	09/01/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.52
beta-BHC	ND	1.7	0.71
gamma-BHC	ND	1.7	0.53
delta-BHC	ND	1.7	0.61
Heptachlor	ND	1.7	0.67
Aldrin	ND	1.7	0.56
Heptachlor epoxide	ND	1.7	0.55
Endosulfan I	ND	1.7	0.78
Dieldrin	ND	3.3	1.3
4,4'-DDE	ND	3.3	1.5
Endrin	ND	3.3	1.6
Endosulfan II	ND	3.3	1.3
Endosulfan sulfate	ND	3.3	1.3
4,4'-DDD	ND	3.3	1.4
Endrin ketone	ND	3.3	1.2
4,4'-DDT	ND	3.3	1.6
Chlordane (Technical)	ND	30	3.1
alpha-Chlordane	ND	1.7	0.64
gamma-Chlordane	ND	1.7	0.57
Methoxychlor	ND	17	7.9
Toxaphene	ND	60	10

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	106	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/30/04
Units:	ug/Kg	Received:	08/30/04
Diln Fac:	1.000	Prepared:	08/30/04
Batch#:	94184		

Field ID:	DUP083004A	Moisture:	3%
Type:	SAMPLE	Analyzed:	09/01/04
Lab ID:	174320-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.9
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.0
Aroclor-1242	ND	10	2.7
Aroclor-1248	110	10	6.5
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	91	65-135
Decachlorobiphenyl	88	65-135

Field ID:	BB3EX121[0.5]	Moisture:	1%
Type:	SAMPLE	Analyzed:	09/01/04
Lab ID:	174320-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.6
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.1
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	88	65-135
Decachlorobiphenyl	77	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	174320	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX121[0.5]	Batch#:	94198
Lab ID:	174320-006	Sampled:	08/30/04
Matrix:	Soil	Received:	08/30/04
Units:	mg/Kg	Prepared:	08/30/04
Basis:	dry	Analyzed:	08/31/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
Antimony	ND	3.0	0.20
Arsenic	3.0	0.25	0.099
Barium	13	0.50	0.013
Beryllium	0.17	0.099	0.0062
Cadmium	ND	0.25	0.027
Chromium	27	0.50	0.033
Cobalt	3.5	0.99	0.076
Copper	2.6	0.50	0.057
Lead	1.5	0.15	0.064
Molybdenum	ND	0.99	0.062
Nickel	18	0.99	0.067
Selenium	ND	0.25	0.17
Silver	ND	0.25	0.098
Thallium	ND	0.25	0.21
Vanadium	26	0.50	0.044
Zinc	12	0.99	0.17

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Contractor's Submittal No. 1300-76

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☒ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
STLC Results for Hot Spot Excavation Sampled on 9/14/04	3	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: _____ Date: 10/5/04
Printed Name: FRANK CANNIZZARO

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust					
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: _____ Date: _____
Printed Name: _____

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

Performance Excavators Inc. 103 Shoreline Pkwy, 201, San Rafael, CA 94901
Phone: (415) 257-4640 ● Fax: (415) 257-4644

174956

Reference #: _____

Date __9/2/04___ Page __1__ of __1__

Report To

Attn: Frank Cannizzaro

Company: Performance Excavators Inc.

Address: 103 Shoreline Pkwy, 2nd Floor, San Rafael, Ca 94901

Phone: 415-257-4640 Email: frank@perf-ex.com

Bill To: Same as above | Sampled By: Mike

Attn: Frank Cannizzaro | Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease (EPA 1664) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ 608 ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) Nickle, Chromium, Vanadium ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 COMPOSITE				Number of Containers
BB3EX122	9/14/04		S														X								1
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						

Project Info.

Project Name: Baker Beach Areas 3 & 4

Project#: 408

PO#:

Credit Card#:

Sample Receipt

of Containers: 1

Head Space:

Temp:

Conforms to record:

TAT	Std 5 Day	72h	48h	24h	Other: **STLC Results By Friday (10/01/04)**

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

E-mail results to frank@perf-ex.com

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
_Mike Chamberlain_____ 9/14/04___ Printed Name / Date	Printed Name / Date	Printed Name / Date
Treadwell & Rollo_____ Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Rev 01/02

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins Laboratories Analytical Report

Lab #:	174956	Location:	Baker Beach 3 Project408
Client:	Performance Excavators	Prep:	WET
Project#:	STANDARD	Analysis:	EPA 6010B
Field ID:	BB3EX122[0.5]	Sampled:	09/14/04
Matrix:	WET Leachate	Received:	09/14/04
Units:	ug/L	Prepared:	10/01/04
Diln Fac:	10.00	Analyzed:	10/01/04
Batch#:	95084		

Type: SAMPLE Lab ID: 174956-001

Analyte	Result	RL
Chromium	ND	500
Nickel	7,900	1,000
Vanadium	510	500

Type: BLANK Lab ID: QC266567

Analyte	Result	RL
Chromium	ND	500
Nickel	ND	1,000
Vanadium	ND	500

ND= Not Detected
RL= Reporting Limit

2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/14/04
Units:	ug/Kg	Received:	09/14/04
Diln Fac:	1.000	Prepared:	09/14/04
Batch#:	94591		

Field ID:	BB3EX125[0.5]	Moisture:	2%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-001	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.8
Aroclor-1248	ND	10	2.7
Aroclor-1254	ND	10	2.1
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	92	65-135
Decachlorobiphenyl	72	65-135

Field ID:	BB3EX124[0.5]	Moisture:	1%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-002	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.6
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.1
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	101	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/14/04
Units:	ug/Kg	Received:	09/14/04
Diln Fac:	1.000	Prepared:	09/14/04
Batch#:	94591		

Field ID:	BB3EX123[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-003	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.8
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.1
Aroclor-1242	ND	10	2.7
Aroclor-1248	ND	10	2.6
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	1.4

Surrogate	%REC	Limits
TCMX	103	65-135
Decachlorobiphenyl	88	65-135

Field ID:	BB3EX127[0.5]	Moisture:	3%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.7	1.8
Aroclor-1221	ND	19	10
Aroclor-1232	ND	9.7	6.8
Aroclor-1242	ND	9.7	2.6
Aroclor-1248	ND	9.7	2.6
Aroclor-1254	ND	9.7	2.1
Aroclor-1260	ND	9.7	1.3

Surrogate	%REC	Limits
TCMX	105	65-135
Decachlorobiphenyl	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Polychlorinated Biphenyls (PCBs)

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/14/04
Units:	ug/Kg	Received:	09/14/04
Diln Fac:	1.000	Prepared:	09/14/04
Batch#:	94591		

Field ID:	BB3EX126[0.5]	Moisture:	4%
Type:	SAMPLE	Analyzed:	09/16/04
Lab ID:	174631-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL	MDL
Aroclor-1016	ND	10	1.9
Aroclor-1221	ND	20	10
Aroclor-1232	ND	10	7.2
Aroclor-1242	ND	10	2.7
Aroclor-1248	ND	10	2.7
Aroclor-1254	ND	10	2.2
Aroclor-1260	ND	10	1.5

Surrogate	%REC	Limits
TCMX	95	65-135
Decachlorobiphenyl	81	65-135

Type:	BLANK	Analyzed:	09/15/04
Lab ID:	QC264629	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL	MDL
Aroclor-1016	ND	9.6	1.8
Aroclor-1221	ND	19	10
Aroclor-1232	ND	9.6	6.8
Aroclor-1242	ND	9.6	2.6
Aroclor-1248	ND	9.6	2.5
Aroclor-1254	ND	9.6	2.1
Aroclor-1260	ND	9.6	1.4

Surrogate	%REC	Limits
TCMX	89	65-135
Decachlorobiphenyl	79	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX125[0.5]	Batch#:	94601
Lab ID:	174631-001	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 2%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.51
Endosulfan I	ND	1.7	0.90
Dieldrin	ND	3.3	0.65
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.97
Endosulfan sulfate	ND	3.3	0.79
4,4'-DDD	ND	3.3	0.68
Endrin ketone	ND	3.3	0.83
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.9
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.48
Methoxychlor	ND	17	2.7
Toxaphene	ND	61	12

Surrogate	%REC	Limits
TCMX	90	65-135
Decachlorobiphenyl	89	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX124[0.5]	Batch#:	94601
Lab ID:	174631-002	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 1%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.32
beta-BHC	ND	1.7	0.41
gamma-BHC	ND	1.7	0.36
delta-BHC	ND	1.7	0.33
Heptachlor	ND	1.7	0.48
Aldrin	ND	1.7	0.40
Heptachlor epoxide	ND	1.7	0.49
Endosulfan I	ND	1.7	0.89
Dieldrin	ND	3.3	0.64
4,4'-DDE	ND	3.3	0.53
Endrin	ND	3.3	0.67
Endosulfan II	ND	3.3	0.95
Endosulfan sulfate	ND	3.3	0.78
4,4'-DDD	ND	3.3	0.68
Endrin ketone	ND	3.3	0.82
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.7
alpha-Chlordane	ND	1.7	0.49
gamma-Chlordane	ND	1.7	0.46
Methoxychlor	ND	17	2.6
Toxaphene	ND	60	12

Surrogate	%REC	Limits
TCMX	62 *	65-135
Decachlorobiphenyl	75	65-135

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX123[0.5]	Batch#:	94601
Lab ID:	174631-003	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.8	0.34
beta-BHC	ND	1.8	0.44
gamma-BHC	ND	1.8	0.39
delta-BHC	ND	1.8	0.35
Heptachlor	ND	1.8	0.51
Aldrin	ND	1.8	0.43
Heptachlor epoxide	ND	1.8	0.53
Endosulfan I	ND	1.8	0.94
Dieldrin	ND	3.5	0.68
4,4'-DDE	ND	3.5	0.56
Endrin	ND	3.5	0.71
Endosulfan II	ND	3.5	1.0
Endosulfan sulfate	ND	3.5	0.82
4,4'-DDD	ND	3.5	0.72
Endrin ketone	ND	3.5	0.86
4,4'-DDT	ND	3.5	1.3
Chlordane (Technical)	ND	32	4.0
alpha-Chlordane	ND	1.8	0.53
gamma-Chlordane	ND	1.8	0.50
Methoxychlor	ND	18	2.8
Toxaphene	ND	63	13

Surrogate	%REC	Limits
TCMX	83	65-135
Decachlorobiphenyl	84	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

13.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX127[0.5]	Batch#:	94601
Lab ID:	174631-005	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 3%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.42
gamma-BHC	ND	1.7	0.37
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.49
Aldrin	ND	1.7	0.41
Heptachlor epoxide	ND	1.7	0.51
Endosulfan I	ND	1.7	0.91
Dieldrin	ND	3.3	0.65
4,4'-DDE	ND	3.3	0.54
Endrin	ND	3.3	0.68
Endosulfan II	ND	3.3	0.97
Endosulfan sulfate	ND	3.3	0.79
4,4'-DDD	ND	3.3	0.69
Endrin ketone	ND	3.3	0.84
4,4'-DDT	ND	3.3	1.2
Chlordane (Technical)	ND	30	3.8
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.47
Methoxychlor	ND	17	2.7
Toxaphene	ND	61	12

Surrogate	%REC	Limits
TCMX	82	65-135
Decachlorobiphenyl	87	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

14.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Organochlorine Pesticides

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3545
Project#:	2893.12	Analysis:	EPA 8081A
Field ID:	BB3EX126[0.5]	Batch#:	94601
Lab ID:	174631-006	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	ug/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Cleanup Method: EPA 3620B

Analyte	Result	RL	MDL
alpha-BHC	ND	1.7	0.33
beta-BHC	ND	1.7	0.43
gamma-BHC	ND	1.7	0.38
delta-BHC	ND	1.7	0.34
Heptachlor	ND	1.7	0.50
Aldrin	ND	1.7	0.42
Heptachlor epoxide	ND	1.7	0.52
Endosulfan I	ND	1.7	0.92
Dieldrin	ND	3.4	0.66
4,4'-DDE	ND	3.4	0.55
Endrin	ND	3.4	0.69
Endosulfan II	ND	3.4	0.98
Endosulfan sulfate	ND	3.4	0.80
4,4'-DDD	ND	3.4	0.70
Endrin ketone	ND	3.4	0.84
4,4'-DDT	ND	3.4	1.3
Chlordane (Technical)	ND	31	4.0
alpha-Chlordane	ND	1.7	0.51
gamma-Chlordane	ND	1.7	0.49
Methoxychlor	ND	17	2.7
Toxaphene	ND	62	13

Surrogate	%REC	Limits
TCMX	86	65-135
Decachlorobiphenyl	86	65-135

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

15.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX125[0.5]	Batch#:	94604
Lab ID:	174631-001	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 2%

Analyte	Result	RL	MDL
Antimony	ND	2.8	0.18
Arsenic	2.5	0.23	0.093
Barium	13	0.47	0.012
Beryllium	0.11	0.094	0.0058
Cadmium	ND	0.23	0.027
Chromium	42	0.47	0.031
Cobalt	5.0	0.94	0.071
Copper	3.0	0.47	0.054
Lead	1.4	0.14	0.060
Molybdenum	ND	0.94	0.058
Nickel	20	0.94	0.062
Selenium	0.85	0.23	0.16
Silver	ND	0.23	0.092
Thallium	ND	0.23	0.20
Vanadium	34	0.47	0.042
Zinc	13	0.94	0.16

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

2.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX124[0.5]	Batch#:	94604
Lab ID:	174631-002	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 1%

Analyte	Result	RL	MDL
Antimony	ND	2.8	0.18
Arsenic	3.1	0.23	0.092
Barium	10	0.46	0.012
Beryllium	0.12	0.092	0.0058
Cadmium	ND	0.23	0.025
Chromium	45	0.46	0.030
Cobalt	5.6	0.92	0.071
Copper	2.9	0.46	0.053
Lead	1.6	0.14	0.060
Molybdenum	ND	0.92	0.058
Nickel	23	0.92	0.062
Selenium	0.75	0.23	0.16
Silver	ND	0.23	0.091
Thallium	ND	0.23	0.19
Vanadium	33	0.46	0.041
Zinc	14	0.92	0.15

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX123[0.5]	Batch#:	94604
Lab ID:	174631-003	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
Antimony	ND	2.1	0.14
Arsenic	2.7	0.17	0.069
Barium	8.8	0.35	0.0094
Beryllium	0.11	0.069	0.0044
Cadmium	ND	0.17	0.020
Chromium	46	0.35	0.023
Cobalt	5.1	0.69	0.053
Copper	3.0	0.35	0.040
Lead	1.4	0.10	0.045
Molybdenum	ND	0.69	0.044
Nickel	22	0.69	0.047
Selenium	1.1	0.17	0.13
Silver	ND	0.17	0.069
Thallium	ND	0.17	0.15
Vanadium	43	0.35	0.031
Zinc	14	0.69	0.11

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

4.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX122[0.5]	Batch#:	94604
Lab ID:	174631-004	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 17%

Analyte	Result	RL	MDL
Antimony	ND	2.7	0.18
Arsenic	4.6	0.22	0.089
Barium	150	0.45	0.012
Beryllium	0.43	0.089	0.0055
Cadmium	ND	0.22	0.025
Chromium	130	0.45	0.030
Cobalt	61	0.89	0.069
Copper	18	0.45	0.051
Lead	4.4	0.13	0.058
Molybdenum	ND	0.89	0.055
Nickel	270	0.89	0.060
Selenium	2.0	0.22	0.16
Silver	ND	0.22	0.088
Thallium	ND	0.22	0.19
Vanadium	53	0.45	0.040
Zinc	39	0.89	0.16

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX127[0.5]	Batch#:	94604
Lab ID:	174631-005	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 3%

Analyte	Result	RL	MDL
Antimony	ND	2.8	0.19
Arsenic	3.2	0.23	0.092
Barium	17	0.46	0.012
Beryllium	0.11	0.092	0.0058
Cadmium	ND	0.23	0.026
Chromium	41	0.46	0.031
Cobalt	4.9	0.92	0.070
Copper	3.8	0.46	0.053
Lead	2.5	0.14	0.060
Molybdenum	ND	0.92	0.058
Nickel	20	0.92	0.062
Selenium	0.88	0.23	0.16
Silver	ND	0.23	0.091
Thallium	ND	0.23	0.20
Vanadium	36	0.46	0.041
Zinc	16	0.92	0.15

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

6.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

California Title 26 Metals

Lab #:	174631	Location:	Presidio Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX126[0.5]	Batch#:	94604
Lab ID:	174631-006	Sampled:	09/14/04
Matrix:	Soil	Received:	09/14/04
Units:	mg/Kg	Prepared:	09/14/04
Basis:	dry	Analyzed:	09/15/04
Diln Fac:	1.000		

Moisture: 4%

Analyte	Result	RL	MDL
Antimony	ND	2.4	0.17
Arsenic	3.1	0.20	0.081
Barium	15	0.41	0.011
Beryllium	0.10	0.081	0.0051
Cadmium	ND	0.20	0.023
Chromium	38	0.41	0.027
Cobalt	4.8	0.81	0.063
Copper	2.9	0.41	0.047
Lead	2.1	0.12	0.052
Molybdenum	ND	0.81	0.051
Nickel	19	0.81	0.054
Selenium	0.86	0.20	0.15
Silver	ND	0.20	0.080
Thallium	ND	0.20	0.18
Vanadium	37	0.41	0.036
Zinc	14	0.81	0.14

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

7.1

174631

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415-955-9040 / Fax: 415-955-9041
☐ 2 Theatre Square, Suite 216, Orinda CA 94563 Ph: 925-253-4980 / Fax: 925-253-4985
☐ 501 14th Street, 3rd Floor, Oakland, CA 94612 Ph: 510-874-4500 / Fax: 510-874-4507

Site Name: Presidio Baker Beach 3
Job Number: 2893.12
Project Manager\Contact: Sirada Rains
Samplers: Mike Chmardin
Recorder (Signature Required): [illegible]

Turnaround Time: 48 hr

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: Pesticides	PCBs	metals	Silica gel clean-up	Hold	Remarks
-1 BB3EX125 [0.5]	9/14/04	1316		X						1		X	X	X			sand
-2 BB3EX124 [0.5]		1319		X						1		X	X	X			sand
-3 BB3EX123 [0.5]		1324		X						1		X	X	X			sand
-4 BB3EX122 [0.5]		1328		X						1				X			clump
-5 BB3EX127 [0.5]		1335		X						1		X	X	X			sand
-6 BB3EX126 [0.5]	9/14/04	1338		X						1		X	X	X			sand

Lab ID: 1 = 8, 2 = 8, 3 = 8, 4 = 8, 5 = 8, 6 = 8

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9/14/04	1505	[signature]	9-14-04	1505
[signature]	9-14-04	3:45	Davanna Curtis	9-14-04	3:45
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis & Tompkins
Laboratory Comments/Notes:

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☒ Private Courier (Co. Name) Ward

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 002240

Received ☐ On ice ☐ Cold ☐ Ambient ☐ Intact

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 1 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 174631 Date Received: 9/14/04 Number of Coolers: 1
Client: Treadwell + Rollo Project: Presidio - Baker Beach 3

A. Preliminary Examination Phase
Date Opened: 9/14/04 By (print): Peter P. (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)?..... YES NO
   If YES. enter carrier name and airbill number:
2. Were custody seals on outside of cooler?..... YES NO
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival?..... YES NO N/A
4. Were custody papers dry and intact when received?..... YES NO
5. Were custody papers filled out properly (ink, signed, etc.)?..... YES NO
6. Did you sign the custody papers in the appropriate place?..... YES NO
7. Was project identifiable from custody papers?..... YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. ..... YES NO
   Type of ice: WET Temperature: COLD

B. Login Phase
Date Logged In: 9/14/04 By (print): Peter P. (sign) [signature]

1. Describe type of packing in cooler: Zip Lock bag
2. Did all bottles arrive unbroken?..... YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)?.. YES NO
4. Did bottle labels agree with custody papers?..... YES NO
5. Were appropriate containers used for the tests indicated?..... YES NO
6. Were correct preservatives added to samples?..... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated?..... YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below..... YES NO N/A
9. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

Contractor's Submittal No. 1300 - H

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☒ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
Test results for Stockpiles sampled on 9/24/04.	3	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: _____ Date: 10/5/04
Printed Name: Frank P. Cannizzaro

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust					
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: _____ Date: _____
Printed Name: _____

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

SEVERN TRENT STL

Submission#: 2004-09-0743

Performance Excavators, Inc.

September 28, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Frank Cannizzaro

Project#: 408
Project: Baker Beach Areas 3 & 4

RECEIVED
OCT 04 2004
PERF-EX

Dear Mr. Cannizzaro,

Attached is our report for your samples received on 09/24/2004 15:40
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/08/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 LB1,LB2,LB3,LB4	09/24/2004	Soil	1

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	5035	Test(s):	8260B
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/27/2004 14:11
Matrix:	Soil	QC Batch#:	2004/09/27-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Acetone	ND	50	ug/Kg	1.00	09/27/2004 14:11	
Benzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Bromobenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Bromochloromethane	ND	20	ug/Kg	1.00	09/27/2004 14:11	
Bromoform	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Bromomethane	ND	10	ug/Kg	1.00	09/27/2004 14:11	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	09/27/2004 14:11	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Carbon disulfide	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Chlorobenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Chloroethane	ND	10	ug/Kg	1.00	09/27/2004 14:11	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	09/27/2004 14:11	
Chloroform	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Chloromethane	ND	10	ug/Kg	1.00	09/27/2004 14:11	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	09/27/2004 14:11	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	09/27/2004 14:11	

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	5035	Test(s):	8260B
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/27/2004 14:11
Matrix:	Soil	QC Batch#:	2004/09/27-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	10	ug/Kg	1.00	09/27/2004 14:11	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	09/27/2004 14:11	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Ethylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
2-Hexanone	ND	50	ug/Kg	1.00	09/27/2004 14:11	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Methylene chloride	ND	10	ug/Kg	1.00	09/27/2004 14:11	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	09/27/2004 14:11	
Naphthalene	ND	10	ug/Kg	1.00	09/27/2004 14:11	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Styrene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Toluene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Trichloroethene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	5035	Test(s):	8260B
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/27/2004 14:11
Matrix:	Soil	QC Batch#:	2004/09/27-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Vinyl acetate	ND	50	ug/Kg	1.00	09/27/2004 14:11	
Vinyl chloride	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Total xylenes	ND	5.0	ug/Kg	1.00	09/27/2004 14:11	
Surrogate(s)						
4-Bromofluorobenzene	107.7	74-121	%	1.00	09/27/2004 14:11	
1,2-Dichloroethane-d4	103.6	70-121	%	1.00	09/27/2004 14:11	
Toluene-d8	99.0	81-117	%	1.00	09/27/2004 14:11	

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 5035

Test(s): 8260B

Method Blank

Soil

QC Batch # 2004/09/27-01.06

MB: 2004/09/27-01.06-005

Date Extracted: 09/27/2004 13:35

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	09/27/2004 13:35	
Acetone	ND	50	ug/Kg	09/27/2004 13:35	
Benzene	ND	5.0	ug/Kg	09/27/2004 13:35	
Bromodichloromethane	ND	5.0	ug/Kg	09/27/2004 13:35	
Bromobenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
Bromochloromethane	ND	20	ug/Kg	09/27/2004 13:35	
Bromoform	ND	5.0	ug/Kg	09/27/2004 13:35	
Bromomethane	ND	10	ug/Kg	09/27/2004 13:35	
2-Butanone(MEK)	ND	50	ug/Kg	09/27/2004 13:35	
n-Butylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
sec-Butylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
tert-Butylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
Carbon disulfide	ND	5.0	ug/Kg	09/27/2004 13:35	
Carbon tetrachloride	ND	5.0	ug/Kg	09/27/2004 13:35	
Chlorobenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
Chloroethane	ND	10	ug/Kg	09/27/2004 13:35	
2-Chloroethylvinyl ether	ND	50	ug/Kg	09/27/2004 13:35	
Chloroform	ND	5.0	ug/Kg	09/27/2004 13:35	
Chloromethane	ND	10	ug/Kg	09/27/2004 13:35	
2-Chlorotoluene	ND	5.0	ug/Kg	09/27/2004 13:35	
4-Chlorotoluene	ND	5.0	ug/Kg	09/27/2004 13:35	
Dibromochloromethane	ND	5.0	ug/Kg	09/27/2004 13:35	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,3-Dichloropropane	ND	5.0	ug/Kg	09/27/2004 13:35	
2,2-Dichloropropane	ND	5.0	ug/Kg	09/27/2004 13:35	
1,1-Dichloropropene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	09/27/2004 13:35	
1,2-Dibromoethane	ND	10	ug/Kg	09/27/2004 13:35	

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 5035

Test(s): 8260B

Method Blank

Soil

QC Batch # 2004/09/27-01.06

MB: 2004/09/27-01.06-005

Date Extracted: 09/27/2004 13:35

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	10	ug/Kg	09/27/2004 13:35	
Dichlorodifluoromethane	ND	10	ug/Kg	09/27/2004 13:35	
1,1-Dichloroethane	ND	5.0	ug/Kg	09/27/2004 13:35	
1,2-Dichloroethane	ND	5.0	ug/Kg	09/27/2004 13:35	
1,1-Dichloroethene	ND	5.0	ug/Kg	09/27/2004 13:35	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	09/27/2004 13:35	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,2-Dichloropropane	ND	5.0	ug/Kg	09/27/2004 13:35	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	09/27/2004 13:35	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	09/27/2004 13:35	
Ethylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
Hexachlorobutadiene	ND	5.0	ug/Kg	09/27/2004 13:35	
2-Hexanone	ND	50	ug/Kg	09/27/2004 13:35	
Isopropylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
p-Isopropyltoluene	ND	5.0	ug/Kg	09/27/2004 13:35	
Methylene chloride	ND	10	ug/Kg	09/27/2004 13:35	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	09/27/2004 13:35	
Naphthalene	ND	10	ug/Kg	09/27/2004 13:35	
n-Propylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
Styrene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	09/27/2004 13:35	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	09/27/2004 13:35	
Tetrachloroethene	ND	5.0	ug/Kg	09/27/2004 13:35	
Toluene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	09/27/2004 13:35	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	09/27/2004 13:35	
Trichloroethene	ND	5.0	ug/Kg	09/27/2004 13:35	
Trichlorofluoromethane	ND	5.0	ug/Kg	09/27/2004 13:35	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	09/27/2004 13:35	

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
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Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 5035 | Test(s): 8260B

Method Blank | **Soil** | **QC Batch # 2004/09/27-01.06**

MB: 2004/09/27-01.06-005 | Date Extracted: 09/27/2004 13:35

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	09/27/2004 13:35	
Vinyl acetate	ND	50	ug/Kg	09/27/2004 13:35	
Vinyl chloride	ND	5.0	ug/Kg	09/27/2004 13:35	
Total xylenes	ND	5.0	ug/Kg	09/27/2004 13:35	
Surrogates(s)					
4-Bromofluorobenzene	104.8	74-121	%	09/27/2004 13:35	
1,2-Dichloroethane-d4	108.8	70-121	%	09/27/2004 13:35	
Toluene-d8	99.2	81-117	%	09/27/2004 13:35	

Volatile Organic Compounds by 8260B (Low Level)

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 5035

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/27-01.06**

LCS 2004/09/27-01.06-003 Extracted: 09/27/2004 Analyzed: 09/27/2004 12:24

LCSD 2004/09/27-01.06-004 Extracted: 09/27/2004 Analyzed: 09/27/2004 13:00

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	106	101	100.0	106.0	101.0	4.8	69-129	20		
Chlorobenzene	111	103	100.0	111.0	103.0	7.5	61-121	20		
1,1-Dichloroethene	109	104	100.0	109.0	104.0	4.7	65-125	20		
Toluene	108	102	100.0	108.0	102.0	5.7	70-130	20		
Trichloroethene	104	99.8	100.0	104.0	99.8	4.1	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	518	516	500	103.6	103.2		74-121			
1,2-Dichloroethane-d4	499	526	500	99.8	105.2		70-121			
Toluene-d8	483	483	500	96.6	96.6		81-117			

SEVERN TRENT STL

Submission: 2004-09-0743

Oil & Grease (Total) by EPA 1664A

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 LB1,LB2,LB3,LB4	09/24/2004	Soil	1

Oil & Grease (Total) by EPA 1664A

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	1664A	Test(s):	1664A
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/27/2004 00:00
Matrix:	Soil	QC Batch#:	2004/09/27-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	140	50	mg/Kg	1.00	09/27/2004	

Oil & Grease (Total) by EPA 1664A

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 1664A

Test(s): 1664A

Method Blank

Soil

QC Batch # 2004/09/27-02.23

MB: 2004/09/27-02.23-001

Date Extracted: 09/27/2004

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	09/27/2004	

Oil & Grease (Total) by EPA 1664A

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 1664A

Test(s): 1664A

Laboratory Control Spike **Soil** **QC Batch # 2004/09/27-02.23**

LCS 2004/09/27-02.23-002 Extracted: 09/27/2004 Analyzed: 09/27/2004

LCSD 2004/09/27-02.23-003 Extracted: 09/27/2004 Analyzed: 09/27/2004

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Oil & Grease (total)	742	760	800	92.8	95.0	2.3	79-114	18		

SEVERN TRENT STL

Submission: 2004-09-0743

Semi-volatile analysis by GC/MS - EPA8270C

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 LB1,LB2,LB3,LB4	09/24/2004	Soil	1

Semi-volatile analysis by GC/MS - EPA8270C

Performance Excavators, Inc.

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Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/24/2004 18:51
Matrix:	Soil	QC Batch#:	2004/09/24-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2-Methylphenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
4-Methylphenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Hexachloroethane	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Nitrobenzene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Isophorone	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Naphthalene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
4-Chloroaniline	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
2-Methylnaphthalene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	

Semi-volatile analysis by GC/MS - EPA8270C

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/24/2004 18:51
Matrix:	Soil	QC Batch#:	2004/09/24-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Acenaphthylene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Acenaphthene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
Dibenzofuran	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
Fluorene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
Phenanthrene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Anthracene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
Fluoranthene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Pyrene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
Chrysene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	09/27/2004 20:34	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	

Semi-volatile analysis by GC/MS - EPA8270C

Performance Excavators, Inc.

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103 Shoreline Parkway, Second Floor
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Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/24/2004 18:51
Matrix:	Soil	QC Batch#:	2004/09/24-01.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	09/27/2004 20:34	
Benzoic acid	ND	0.33	mg/Kg	1.00	09/27/2004 20:34	
Surrogate(s)						
Nitrobenzene-d5	78.4	23-120	%	1.00	09/27/2004 20:34	
2-Fluorobiphenyl	81.0	30-115	%	1.00	09/27/2004 20:34	
p-Terphenyl-d14	82.2	18-137	%	1.00	09/27/2004 20:34	
2-Fluorophenol	69.1	25-121	%	1.00	09/27/2004 20:34	
Phenol-d5	73.5	24-113	%	1.00	09/27/2004 20:34	
2,4,6-Tribromophenol	81.6	19-122	%	1.00	09/27/2004 20:34	

Semi-volatile analysis by GC/MS - EPA8270C

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Method Blank

Soil

QC Batch # 2004/09/24-01.11

MB: 2004/09/24-01.11-001

Date Extracted: 09/24/2004 18:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	09/27/2004 16:54	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	09/27/2004 16:54	
2-Chlorophenol	ND	0.067	mg/Kg	09/27/2004 16:54	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	09/27/2004 16:54	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	09/27/2004 16:54	
Benzyl alcohol	ND	0.17	mg/Kg	09/27/2004 16:54	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	09/27/2004 16:54	
2-Methylphenol	ND	0.067	mg/Kg	09/27/2004 16:54	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	09/27/2004 16:54	
4-Methylphenol	ND	0.067	mg/Kg	09/27/2004 16:54	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	09/27/2004 16:54	
Hexachloroethane	ND	0.067	mg/Kg	09/27/2004 16:54	
Nitrobenzene	ND	0.067	mg/Kg	09/27/2004 16:54	
Isophorone	ND	0.067	mg/Kg	09/27/2004 16:54	
2-Nitrophenol	ND	0.067	mg/Kg	09/27/2004 16:54	
2,4-Dimethylphenol	ND	0.067	mg/Kg	09/27/2004 16:54	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	09/27/2004 16:54	
2,4-Dichlorophenol	ND	0.067	mg/Kg	09/27/2004 16:54	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	09/27/2004 16:54	
Naphthalene	ND	0.067	mg/Kg	09/27/2004 16:54	
4-Chloroaniline	ND	0.330	mg/Kg	09/27/2004 16:54	
Hexachlorobutadiene	ND	0.067	mg/Kg	09/27/2004 16:54	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	09/27/2004 16:54	
2-Methylnaphthalene	ND	0.067	mg/Kg	09/27/2004 16:54	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	09/27/2004 16:54	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	09/27/2004 16:54	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	09/27/2004 16:54	
2-Chloronaphthalene	ND	0.067	mg/Kg	09/27/2004 16:54	
2-Nitroaniline	ND	0.33	mg/Kg	09/27/2004 16:54	
Dimethyl phthalate	ND	0.17	mg/Kg	09/27/2004 16:54	

Semi-volatile analysis by GC/MS - EPA8270C

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550B/8270C
Test(s): 8270C

Method Blank **Soil** **QC Batch # 2004/09/24-01.11**

MB: 2004/09/24-01.11-001

Date Extracted: 09/24/2004 18:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Acenaphthylene	ND	0.067	mg/Kg	09/27/2004 16:54	
3-Nitroaniline	ND	0.067	mg/Kg	09/27/2004 16:54	
Acenaphthene	ND	0.067	mg/Kg	09/27/2004 16:54	
2,4-Dinitrophenol	ND	0.33	mg/Kg	09/27/2004 16:54	
4-Nitrophenol	ND	0.33	mg/Kg	09/27/2004 16:54	
Dibenzofuran	ND	0.067	mg/Kg	09/27/2004 16:54	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	09/27/2004 16:54	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	09/27/2004 16:54	
Diethyl phthalate	ND	0.17	mg/Kg	09/27/2004 16:54	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	09/27/2004 16:54	
Fluorene	ND	0.067	mg/Kg	09/27/2004 16:54	
4-Nitroaniline	ND	0.33	mg/Kg	09/27/2004 16:54	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	09/27/2004 16:54	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	09/27/2004 16:54	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	09/27/2004 16:54	
Hexachlorobenzene	ND	0.067	mg/Kg	09/27/2004 16:54	
Pentachlorophenol	ND	0.33	mg/Kg	09/27/2004 16:54	
Phenanthrene	ND	0.067	mg/Kg	09/27/2004 16:54	
Anthracene	ND	0.067	mg/Kg	09/27/2004 16:54	
Di-n-butyl phthalate	ND	0.17	mg/Kg	09/27/2004 16:54	
Fluoranthene	ND	0.067	mg/Kg	09/27/2004 16:54	
Pyrene	ND	0.067	mg/Kg	09/27/2004 16:54	
Butyl benzyl phthalate	ND	0.17	mg/Kg	09/27/2004 16:54	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	09/27/2004 16:54	
Benzo(a)anthracene	ND	0.067	mg/Kg	09/27/2004 16:54	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	09/27/2004 16:54	
Chrysene	ND	0.067	mg/Kg	09/27/2004 16:54	
Di-n-octyl phthalate	ND	0.17	mg/Kg	09/27/2004 16:54	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	09/27/2004 16:54	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	09/27/2004 16:54	
Benzo(a)pyrene	ND	0.067	mg/Kg	09/27/2004 16:54	

Semi-volatile analysis by GC/MS - EPA8270C

Performance Excavators, Inc.
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San Rafael, CA 94901-5521
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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550B/8270C
Test(s): 8270C

Method Blank **Soil** **QC Batch # 2004/09/24-01.11**

MB: 2004/09/24-01.11-001

Date Extracted: 09/24/2004 18:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	09/27/2004 16:54	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	09/27/2004 16:54	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	09/27/2004 16:54	
Benzoic acid	ND	0.33	mg/Kg	09/27/2004 16:54	
Surrogates(s)					
Nitrobenzene-d5	69.3	23-120	%	09/27/2004 16:54	
2-Fluorobiphenyl	79.8	30-115	%	09/27/2004 16:54	
p-Terphenyl-d14	87.3	18-137	%	09/27/2004 16:54	
2-Fluorophenol	68.8	25-121	%	09/27/2004 16:54	
Phenol-d5	67.3	24-113	%	09/27/2004 16:54	
2,4,6-Tribromophenol	80.6	19-122	%	09/27/2004 16:54	

Semi-volatile analysis by GC/MS - EPA8270C

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Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550B/8270C

Test(s): 8270C

Laboratory Control Spike **Soil** **QC Batch # 2004/09/24-01.11**

LCS 2004/09/24-01.11-002 Extracted: 09/24/2004 Analyzed: 09/27/2004 17:22
LCSD 2004/09/24-01.11-003 Extracted: 09/24/2004 Analyzed: 09/27/2004 17:49

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Phenol	1.42	1.46	1.98	71.7	74.1	3.3	20-90	35		
2-Chlorophenol	1.48	1.56	1.98	74.7	79.2	5.8	27-123	35		
1,4-Dichlorobenzene	0.800	0.780	0.990	80.8	79.0	2.3	28-104	30		
N-Nitroso-di-n-propylamine	0.670	0.710	0.990	67.7	71.9	6.0	25-114	39		
1,2,4-Trichlorobenzene	0.870	0.820	0.990	87.9	83.1	5.6	38-107	35		
4-Chloro-3-methylphenol	1.87	1.80	1.98	94.4	91.4	3.2	26-103	33		
Acenaphthene	0.780	0.830	0.990	78.8	84.1	6.5	49-102	30		
4-Nitrophenol	1.87	1.99	1.98	94.4	101.0	6.8	17-109	35		
2,4-Dinitrotoluene	0.940	0.920	0.990	94.9	93.2	1.8	39-139	38		
Pentachlorophenol	1.38	1.53	1.98	69.7	77.7	10.9	11-114	35		
Pyrene	0.870	0.880	0.990	87.9	89.2	1.5	25-117	35		
Surrogates(s)										
Nitrobenzene-d5	20.0	19.8	25	80.0	79.2		23-120			
2-Fluorobiphenyl	19.4	21.2	25	77.6	84.8		30-115			
p-Terphenyl-d14	23.0	24.1	25	92.0	96.4		18-137			
2-Fluorophenol	37.3	38.0	50	74.6	76.0		25-121			
Phenol-d5	38.5	42.0	50	77.0	84.0		24-113			
2,4,6-Tribromophenol	46.4	42.9	50	92.8	85.8		19-122			

Gas/BTEX Compounds by 8015M/8021

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Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 LB1,LB2,LB3,LB4	09/24/2004	Soil	1

Gas/BTEX Compounds by 8015M/8021

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Received: 09/24/2004 15:40

Prep(s):	5035	Test(s):	8015M
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/27/2004 13:00
Matrix:	Soil	QC Batch#:	2004/09/27-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/27/2004 13:00	
Surrogate(s)						
4-Bromofluorobenzene-FID	80.7	58-124	%	1.00	09/27/2004 13:00	

Gas/BTEX Compounds by 8015M/8021

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Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 5035 | Test(s): 8015M

Method Blank | **Soil** | **QC Batch # 2004/09/27-01.01**

MB: 2004/09/27-01.01-004 | Date Extracted: 09/27/2004 10:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	09/27/2004 10:00	
Surrogates(s)					
4-Bromofluorobenzene-FID	89.6	58-124	%	09/27/2004 10:00	

Gas/BTEX Compounds by 8015M/8021

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Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike **Soil** **QC Batch # 2004/09/27-01.01**

LCS 2004/09/27-01.01-007 Extracted: 09/27/2004 Analyzed: 09/27/2004 11:40
LCSD 2004/09/27-01.01-008 Extracted: 09/27/2004 Analyzed: 09/27/2004 12:13

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	0.507	0.513	0.500	101.4	102.6	1.2	75-125	35		
Surrogates(s)										
4-Bromofluorobenzene-FID	422	437	500	84.4	87.4		58-124			

SEVERN TRENT STL

Submission: 2004-09-0743

CAM W.E.T. (STLC) Lead

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Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 DB1,DB2,DB3,DB4	09/24/2004	Soil	2

CAM W.E.T. (STLC) Lead

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**092404 DB1,DB2,DB3,DB4**	Lab ID:	2004-09-0743 - 2
Sampled:	09/24/2004	Extracted:	9/27/2004 06:36
Matrix:	Soil	QC Batch#:	2004/09/27-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.6	0.50	mg/L	1.00	09/27/2004 11:53	

CAM W.E.T. (STLC) Lead

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3005A
Test(s): 6010B

Method Blank
Soil
QC Batch # 2004/09/27-03.15

MB: 2004/09/27-03.15-022
Date Extracted: 09/27/2004 06:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	09/27/2004 10:17	

CAM W.E.T. (STLC) Lead

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/27-03.15**

LCS 2004/09/27-03.15-023 Extracted: 09/27/2004 Analyzed: 09/27/2004 10:22
LCSD 2004/09/27-03.15-024 Extracted: 09/27/2004 Analyzed: 09/27/2004 10:27

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.92	4.89	5.00	98.4	97.8	0.6	80-120	20		

CAM W.E.T. (STLC) Lead

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/09/27-03.15**

092404 DB1,DB2,DB3,DB4 >> MS

Lab ID: 2004-09-0743 - 002

MS: 2004/09/27-03.15-035 Extracted: 09/27/2004 Analyzed: 09/27/2004 11:58
Dilution: 1.00

MSD: 2004/09/27-03.15-036 Extracted: 09/27/2004 Analyzed: 09/27/2004 12:03
Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	9.42	9.49	4.62	5.00	96.0	97.4	1.4	75-125	20		

SEVERN TRENT STL

Submission: 2004-09-0743

LUFT 5 Metals

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 LB1,LB2,LB3,LB4	09/24/2004	Soil	1
092404 DB1,DB2,DB3,DB4	09/24/2004	Soil	2

LUFT 5 Metals

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/27/2004 06:10
Matrix:	Soil	QC Batch#:	2004/09/27-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	1.00	09/27/2004 12:35	
Chromium	42	1.0	mg/Kg	1.00	09/27/2004 12:35	
Lead	20	1.0	mg/Kg	1.00	09/27/2004 12:35	
Nickel	30	1.0	mg/Kg	1.00	09/27/2004 12:35	
Zinc	40	1.0	mg/Kg	1.00	09/27/2004 12:35	

LUFT 5 Metals

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**092404 DB1,DB2,DB3,DB4**	Lab ID:	2004-09-0743 - 2
Sampled:	09/24/2004	Extracted:	9/27/2004 06:10
Matrix:	Soil	QC Batch#:	2004/09/27-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	1.00	09/27/2004 12:47	
Chromium	46	1.0	mg/Kg	1.00	09/27/2004 12:47	
Lead	18	1.0	mg/Kg	1.00	09/27/2004 12:47	
Nickel	33	1.0	mg/Kg	1.00	09/27/2004 12:47	
Zinc	34	1.0	mg/Kg	1.00	09/27/2004 12:47	

LUFT 5 Metals

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3050B
Test(s): 6010B

Method Blank **Soil** **QC Batch # 2004/09/27-02.15**

MB: 2004/09/27-02.15-037

Date Extracted: 09/27/2004 06:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	09/27/2004 12:08	
Chromium	ND	1.0	mg/Kg	09/27/2004 12:08	
Lead	ND	1.0	mg/Kg	09/27/2004 12:08	
Nickel	ND	1.0	mg/Kg	09/27/2004 12:08	
Zinc	ND	1.0	mg/Kg	09/27/2004 12:08	

LUFT 5 Metals

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/09/27-02.15**

LCS 2004/09/27-02.15-040 Extracted: 09/27/2004 Analyzed: 09/27/2004 12:27
LCSD 2004/09/27-02.15-041 Extracted: 09/27/2004 Analyzed: 09/27/2004 12:31

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Cadmium	94.9	95.0	100.0	94.9	95.0	0.1	80-120	20		
Chromium	93.0	92.7	100.0	93.0	92.7	0.3	80-120	20		
Lead	95.1	95.4	100.0	95.1	95.4	0.3	80-120	20		
Nickel	94.7	94.6	100.0	94.7	94.6	0.1	80-120	20		
Zinc	95.6	95.3	100.0	95.6	95.3	0.3	80-120	20		

LUFT 5 Metals

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/09/27-02.15**

092404 LB1,LB2,LB3,LB4 >> MS

Lab ID: 2004-09-0743 - 001

MS: 2004/09/27-02.15-043 Extracted: 09/27/2004 Analyzed: 09/27/2004 12:39
Dilution: 1.00

MSD: 2004/09/27-02.15-044 Extracted: 09/27/2004 Analyzed: 09/27/2004 12:43
Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Cadmium	71.4	72.7	ND	98.0	72.9	73.4	0.7	75-125	20		
Chromium	114	126	41.7	98.0	73.8	85.2	14.3	75-125	20		
Lead	95.1	104	19.6	98.0	77.0	85.3	10.2	75-125	20		
Nickel	107	116	29.6	98.0	79.0	87.3	10.0	75-125	20		
Zinc	111	112	40.0	98.0	72.4	72.7	0.4	75-125	20		

SEVERN TRENT STL

Submission: 2004-09-0743

Total Extractable Petroleum Hydrocarbons (TEPH)

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 LB1,LB2,LB3,LB4	09/24/2004	Soil	1

Total Extractable Petroleum Hydrocarbons (TEPH)

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/24/2004 06:39
Matrix:	Soil	QC Batch#:	2004/09/24-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	7.6	1.0	mg/Kg	1.00	09/25/2004 09:56	ldr
Motor Oil	55	50	mg/Kg	1.00	09/25/2004 09:56	
Surrogate(s)						
o-Terphenyl	97.4	60-130	%	1.00	09/25/2004 09:56	

Total Extractable Petroleum Hydrocarbons (TEPH)

Performance Excavators, Inc.

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Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Method Blank

Soil

QC Batch # 2004/09/24-02.10

MB: 2004/09/24-02.10-001

Date Extracted: 09/24/2004 06:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	09/24/2004 10:18	
Motor Oil	ND	50	mg/Kg	09/24/2004 10:18	
Surrogates(s)					
o-Terphenyl	77.4	60-130	%	09/24/2004 10:18	

Total Extractable Petroleum Hydrocarbons (TEPH)

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Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike **Soil** **QC Batch # 2004/09/24-02.10**

LCS 2004/09/24-02.10-002 Extracted: 09/24/2004 Analyzed: 09/24/2004 10:46
LCSD 2004/09/24-02.10-003 Extracted: 09/24/2004 Analyzed: 09/24/2004 11:13

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	31.9	30.6	41.2	77.4	73.4	5.3	60-130	25		
Surrogates(s)										
o-Terphenyl	18.4	17.0	20.0	92.0	85.2		60-130	0		

Total Extractable Petroleum Hydrocarbons (TEPH)

Performance Excavators, Inc.

Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Legend and Notes

Result Flag

ldr

Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard

PCBs

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
092404 LB1,LB2,LB3,LB4	09/24/2004	Soil	1

PCBs

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Prep(s):	3550/8082	Test(s):	8082
Sample ID:	**092404 LB1,LB2,LB3,LB4**	Lab ID:	2004-09-0743 - 1
Sampled:	09/24/2004	Extracted:	9/25/2004 14:25
Matrix:	Soil	QC Batch#:	2004/09/25-02.14

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Aroclor 1016	ND	50	ug/Kg	1.00	09/27/2004 10:32	
Aroclor 1221	ND	50	ug/Kg	1.00	09/27/2004 10:32	
Aroclor 1232	ND	50	ug/Kg	1.00	09/27/2004 10:32	
Aroclor 1242	ND	50	ug/Kg	1.00	09/27/2004 10:32	
Aroclor 1248	64	50	ug/Kg	1.00	09/27/2004 10:32	
Aroclor 1254	ND	50	ug/Kg	1.00	09/27/2004 10:32	
Aroclor 1260	ND	50	ug/Kg	1.00	09/27/2004 10:32	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	94.0	50-125	%	1.00	09/27/2004 10:32	
Decachlorobiphenyl (PCB/8082)	85.5	46-142	%	1.00	09/27/2004 10:32	

PCBs

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

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San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550/8082 Test(s): 8082

Method Blank **Soil** **QC Batch # 2004/09/25-02.14**

MB: 2004/09/25-02.14-001 Date Extracted: 09/25/2004 14:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Aroclor 1016	ND	50	ug/Kg	09/27/2004 12:29	
Aroclor 1221	ND	50	ug/Kg	09/27/2004 12:29	
Aroclor 1232	ND	50	ug/Kg	09/27/2004 12:29	
Aroclor 1242	ND	50	ug/Kg	09/27/2004 12:29	
Aroclor 1248	ND	50	ug/Kg	09/27/2004 12:29	
Aroclor 1254	ND	50	ug/Kg	09/27/2004 12:29	
Aroclor 1260	ND	50	ug/Kg	09/27/2004 12:29	
Surrogates(s)					
2,4,5,6-Tetrachloro-m-xylene	92.6	50-125	%	09/27/2004 12:29	
Decachlorobiphenyl (PCB/8082)	81.2	46-142	%	09/27/2004 12:29	

PCBs

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550/8082

Test(s): 8082

Laboratory Control Spike **Soil** **QC Batch # 2004/09/25-02.14**

LCS 2004/09/25-02.14-002 Extracted: 09/25/2004 Analyzed: 09/27/2004 11:50
LCSD 2004/09/25-02.14-003 Extracted: 09/25/2004 Analyzed: 09/27/2004 12:10

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Aroclor 1016	58.7	56.8	66.4	88.4	85.4	3.5	65-135	30		
Aroclor 1260	53.9	55.4	66.4	81.2	83.3	2.6	65-135	30		
Surrogates(s)										
2,4,5,6-Tetrachloro-m-xylene	45.1	44.5	50	90.1	89.0		50-125	0		
Decachlorobiphenyl	37.7	38.4	50	75.4	76.8		46-142	0		

PCBs

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Batch QC Report

Prep(s): 3550/8082

Test(s): 8082

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/09/25-02.14**

092404 LB1,LB2,LB3,LB4 >> MS

Lab ID: 2004-09-0743 - 001

MS: 2004/09/25-02.14-004 Extracted: 09/25/2004 Analyzed: 09/27/2004 10:52
Dilution: 1.00

MSD: 2004/09/25-02.14-005 Extracted: 09/25/2004 Analyzed: 09/27/2004 11:11
Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Aroclor 1016	131	114	ND	66.6	196.7	171.4	13.7	65-135	30	mso	mso
Aroclor 1260	66.7	65.1	ND	66.6	100.2	97.9	2.3	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-xylen	48.3	46.3		50	96.6	92.6		50-125	0		
Decachlorobiphenyl	43.5	41.1		50	86.9	82.1		46-142	0		

PCBs

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3 & 4

Received: 09/24/2004 15:40

Legend and Notes

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

Performance Excavators Inc. 103 Shoreline Pkwy, 201, San Rafael, CA 94901
Phone: (415) 257-4640 ● Fax: (415) 257-4644

Reference #: 89162

2004-09-0743

Date 9/24/04 Page 1 of 1

Report To

Attn: Frank Cannizzaro

Company: Performance Excavators Inc.

Address: 103 Shoreline Pkwy, 2nd Floor, San Rafael, Ca 94901

Phone: 415-257-4640 Email: frank@perf-ex.com

Bill To: Same as above | Sampled By: Frank

Attn: Frank Cannizzaro | Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☒ 8015/8021 ☐ 8260B ☒ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M: ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	Semivolatiles GC/MS ☒ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☒ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☒ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☒ LUFT ☐ RCRA ☐ Other: ___	☒ W.E.T (STLC) LEAD ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐	Spec Cond. ☐ Alkalinity ☐ TSS ☐ ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 COMPOSITE				Number of Containers
092404LB1, LB2, LB3, LB4	9/24/04		S		X		X			X	X	X	X			X					X				4
092404DB1, DB2, DB3, DB4			S													X	X				X				X
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						

RUSH

Project Info.

Project Name: Baker Beach Areas 3 & 4

Project#: 408

PO#:

Credit Card#:

Sample Receipt

of Containers: ~~4~~ 8

Head Space:

Temp: 21°

Conforms to record:

Other:

TAT: Std 5 Day | 72h | 48h | (24h)

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

E-mail results to frank@perf-ex.com

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time: 1540	Signature / Time	Signature / Time
Frank Cannizzaro / 9/24/04 (Printed Name / Date)	Printed Name / Date	Printed Name / Date
Performance Excavators Inc. (Company)	Company	Company

1) Received by:	2) Received by:	3) Received by:
Joan Mullen / Time: 1540	Signature / Time	Signature / Time
Joan Mullen / Date: 9-24-04	Printed Name / Date	Printed Name / Date
STL SF (Company)	Company	Company

Rev 01/02

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2004- 09 - 0743

Checklist completed by: (initials) JM Date: 09/24/04

Courier name: ☐ STL San Francisco ☑ Client _____

Custody seals intact on shipping container/samples	Yes____	No____	Not Present ✓
Chain of custody present?	Yes ✓	No____	
Chain of custody signed when relinquished and received?	Yes ✓	No____	
Chain of custody agrees with sample labels?	Yes ✓	No____	
Samples in proper container/bottle?	Yes ✓	No____	
Sample containers intact?	Yes ✓	No____	
Sufficient sample volume for indicated test?	Yes ✓	No____	
All samples received within holding time?	Yes ✓	No____	

Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 21 °C Yes____ No ✓

Potential reason for > 6°C - Ice melted ☐ Ice in bags ☐ Not enough ice ☐ Not enough blue ice ☐ Samples in boxes ☐

Sampled < 4hr. ago? ☐ Ice not required (e.g. air or bulk sample) ☐

Ice Present Yes____ No ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes____ No____

(if bubble is present, refer to approximate bubble size and itemize in comments as **S** (small ~O), **M** (medium ~ O) or **L** (large ~ O))

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –**Lot #(s)** _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: no sampling time on C.O.C.

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/04 Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	175037	Location:	Presidio-Baker Beach 3
Client:	Treadwell & Rollo	Prep:	EPA 3050
Project#:	2893.12	Analysis:	EPA 6010B
Field ID:	BB3EX134[0.5]	Batch#:	95120
Lab ID:	175037-008	Sampled:	10/01/04
Matrix:	Soil	Received:	10/01/04
Units:	mg/Kg	Prepared:	10/04/04
Basis:	dry	Analyzed:	10/04/04

Moisture: 3%

Analyte	Result	RL	MDL	Diln Fac
Antimony	ND	2.4	0.16	1.000
Arsenic	2.8	0.20	0.080	1.000
Barium	16	0.40	0.011	1.000
Beryllium	0.12	0.081	0.0051	1.000
Cadmium	ND	0.20	0.023	1.000
Chromium	29	0.40	0.027	1.000
Cobalt	4.3	0.81	0.062	1.000
Copper	2.9	0.40	0.046	1.000
Iron	12,000	81	12	20.00
Lead	2.0	0.12	0.052	1.000
Manganese	120	0.40	0.090	1.000
Molybdenum	ND	0.81	0.051	1.000
Nickel	17	0.81	0.054	1.000
Selenium	0.41	0.20	0.14	1.000
Silver	ND	0.20	0.079	1.000
Thallium	ND	0.20	0.18	1.000
Vanadium	31	0.40	0.036	1.000
Zinc	14	0.81	0.13	1.000

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Contractor's Submittal No. 1300-TJ.

Contract No. PT-2004-024
PO#_____

Baker Beach Disturbed Areas 3 and 4 Remedial Action

☒ New Submittal ☐ Resubmittal of Submittal No. _____

Submittal Type:

☐ Shop Drawings ☐ Quality Control/Certificates ☐ Surveys
☐ Product Data/Samples ☐ Manufacturer's Instructions ☐ Project Closeout
☐ Schedule ☐ Construction Equip./Methods ☐ Other

Description of Item Submitted: (Note: Please submit 1 item per Submittal No.)	No. of Copies	Specification Section No.	Exceptions to Specification Requirements
Luft 5 Totals for Sample taked on 10/5/04. Area 3 Soil	3	1300-2.1	

Contractor hereby certifies that the items submitted for review are in full compliance with the requirements of the Specifications except as otherwise noted in the Exceptions to Specification Requirements above.

Signature: _____ Date: 10/19/04
Printed Name: FRANK J. CANANIZARO

Submittal Reviewed By:	No Exception Taken	Rejected	Make Corrections as Noted	Revise And Resubmit	Submit Specified Item
Presidio Trust					
Treadwell & Rollo					
Minshew Engineering					
Other					

Signature: _____ Date: 10/19/04
Printed Name: Jennifer Yata

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Specifications. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work. Acceptance of this submittal does not relieve contractor from the responsibility of errors in the submittal.

Copies Routed To:	Date:	Response Received From:	Date:
☐ Jennifer Yata, Trust		☐ Jennifer Yata, Trust	
☐ Albert Chan, Trust		☐ Albert Chan, Trust	
☐ Treadwell & Rollo, Inc.		☐ Treadwell & Rollo, Inc.	
☐ Minshew Engineering		☐ Minshew Engineering	
☐ Other:		☐ Other:	

SEVERN TRENT STL

Submission#: 2004-10-0121

Performance Excavators, Inc.

October 07, 2004

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521

Attn.: Frank Cannizzaro

Project#: 408
Project: Baker Beach Areas 3&4

RECEIVED
OCT 14 2004
PERF-EX

Dear Mr. Cannizzaro,

Attached is our report for your samples received on 10/05/2004 15:30
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/19/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2004-10-0121

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
100504-01,02,03,04	10/05/2004	Soil	1

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**100504-01,02,03,04**	Lab ID:	2004-10-0121 - 1
Sampled:	10/05/2004	Extracted:	10/7/2004 17:38
Matrix:	Soil	QC Batch#:	2004/10/07-07.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	2.9	0.50	mg/L	1.00	10/08/2004 09:14	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Batch QC Report

Prep(s): 3005A
Method Blank
MB: 2004/10/07-07.15-011

Soil

Test(s): 6010B
QC Batch # 2004/10/07-07.15
Date Extracted: 10/07/2004 17:38

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	10/08/2004 08:59	

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/10/07-07.15**

LCS 2004/10/07-07.15-012 Extracted: 10/07/2004 Analyzed: 10/08/2004 09:05
LCSD 2004/10/07-07.15-013 Extracted: 10/07/2004 Analyzed: 10/08/2004 09:09

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	4.80	4.76	5.00	96.0	95.2	0.8	80-120	20		

CAM W.E.T. (STLC) Lead

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2004/10/07-07.15**

100504-01,02,03,04 >> MS

Lab ID: 2004-10-0121 - 001

MS: 2004/10/07-07.15-015 Extracted: 10/07/2004 Analyzed: 10/08/2004 09:19
Dilution: 1.00

MSD: 2004/10/07-07.15-016 Extracted: 10/07/2004 Analyzed: 10/08/2004 09:24
Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	7.78	7.68	2.88	5.00	98.0	96.0	2.1	75-125	20		

SEVERN TRENT STL

Submission: 2004-10-0121

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
100504-01,02,03,04	10/05/2004	Soil	1

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**100504-01,02,03,04**	Lab ID:	2004-10-0121 - 1
Sampled:	10/05/2004	Extracted:	10/5/2004 16:45
Matrix:	Soil	QC Batch#:	2004/10/05-06.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	1.00	10/06/2004 18:59	
Chromium	34	1.0	mg/Kg	1.00	10/06/2004 18:59	
Lead	33	1.0	mg/Kg	1.00	10/06/2004 18:59	
Nickel	27	1.0	mg/Kg	1.00	10/06/2004 18:59	
Zinc	51	1.0	mg/Kg	1.00	10/06/2004 18:59	

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Method Blank

Soil

QC Batch # 2004/10/05-06.15

MB: 2004/10/05-06.15-030

Date Extracted: 10/05/2004 16:45

Compound	Conc.	RL	Unit	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	10/06/2004 11:30	
Chromium	ND	1.0	mg/Kg	10/06/2004 11:30	
Lead	ND	1.0	mg/Kg	10/06/2004 11:30	
Nickel	ND	1.0	mg/Kg	10/06/2004 11:30	
Zinc	ND	1.0	mg/Kg	10/06/2004 11:30	

LUFT 5 Metals

Performance Excavators, Inc.
Attn.: Frank Cannizzaro

103 Shoreline Parkway, Second Floor
San Rafael, CA 94901-5521
Phone: (415) 257-4640 Fax: (415) 257-4644

Project: 408
Baker Beach Areas 3&4

Received: 10/05/2004 15:30

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2004/10/05-06.15**

LCS 2004/10/05-06.15-031 Extracted: 10/05/2004 Analyzed: 10/06/2004 11:35
LCSD 2004/10/05-06.15-032 Extracted: 10/05/2004 Analyzed: 10/06/2004 11:40

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Cadmium	94.5	95.8	100.0	94.5	95.8	1.4	80-120	20		
Chromium	95.1	96.3	100.0	95.1	96.3	1.3	80-120	20		
Lead	95.0	96.3	100.0	95.0	96.3	1.4	80-120	20		
Nickel	94.1	95.5	100.0	94.1	95.5	1.5	80-120	20		
Zinc	92.7	93.8	100.0	92.7	93.8	1.2	80-120	20		

Performance Excavators Inc. 103 Shoreline Pkwy, 201, San Rafael, CA 94901
Phone: (415) 257-4640 ● Fax: (415) 257-4644

2004-10-0121

Reference #: 89484

Date 9/24/04 Page 1 of 1

Report To

Attn: Frank Cannizzaro
Company: Performance Excavators Inc.
Address: 103 Shoreline Pkwy, 2nd Floor, San Rafael, Ca 94901
Phone: 415-257-4640 Email: frank@perf-ex.com
Bill To: Same as above Sampled By: Frank
Attn: Frank Cannizzaro Phone: 415-257-4640

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☒ LUFT ☐ RCRA ☐ Other: ___	W.E.T (STLC) LEAD ☒ TCLP ☐	Hexavalent Chromium pH (24h hold time for H_2O) ☐ ☐	Spec Cond. ☐ Alkalinity ☐ TDS ☐ ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	4:1 COMPOSITE				Number of Containers
100504-01,-02, -03, -04	10/5/04		S													X	X				X				4
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						
			S																						

RUSH

Project Info.

Project Name: Baker Beach Areas 3 & 4
Project#: 408
PO#:
Credit Card#:

Sample Receipt

of Containers: 4
Head Space:
Temp: 2°C
Conforms to record:

TAT	Std 5 Day	72h	48h	24h

Other: **TTLC on 24 hours STLC on 72 Hours**

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ___
Special Instructions / Comments:

E-mail results to frank@perf-ex.com

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time: 1420 (1430)	Signature / Time: 15:30	Signature / Time
Frank Cannizzaro / 10/5/04	Brian Thomas / 10/5/04	Printed Name / Date
Printed Name / Date	STL-SF	Company
Performance Excavators Inc.	Company	
Company		

1) Received by:	2) Received by:	3) Received by:
Signature / Time: 14:20	Signature / Time: 1550	Signature / Time
Brian Thomas / 10/5/04	M. VILLANUEVA / 10/05/04	Printed Name / Date
Printed Name / Date	STL SF	Company
STL-SF	Company	
Company		

Rev 01/02

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2004- 10 - 0121

Checklist completed by: (initials) JM Date: 10/05/04

Courier name: ☒ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples — Yes____ No____ Not Present ✓

Chain of custody present? — Yes ✓ No____

Chain of custody signed when relinquished and received? — Yes ✓ No____

Chain of custody agrees with sample labels? — Yes ✓ No____

Samples in proper container/bottle? — Yes ✓ No____

Sample containers intact? — Yes ✓ No____

Sufficient sample volume for indicated test? — Yes ✓ No____

All samples received within holding time? — Yes ✓ No____

Container/Temp Blank temperature in compliance (4° C ± 2)? — Temp: 2 °C Yes ✓ No____

Potential reason for > 6°C - Ice melted ☐ Ice in bags ☐ Not enough ice ☐ Not enough blue ice ☐ Samples in boxes ☐

Sampled < 4hr. ago? ☐ Ice not required (e.g. air or bulk sample) ☐

Ice Present Yes ✓ No____

Water - VOA vials have zero headspace? Soil — No VOA vials submitted ✓ Yes____ No____

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O)

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No

☐ **pH adjusted**-- Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –**Lot #(s)** _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

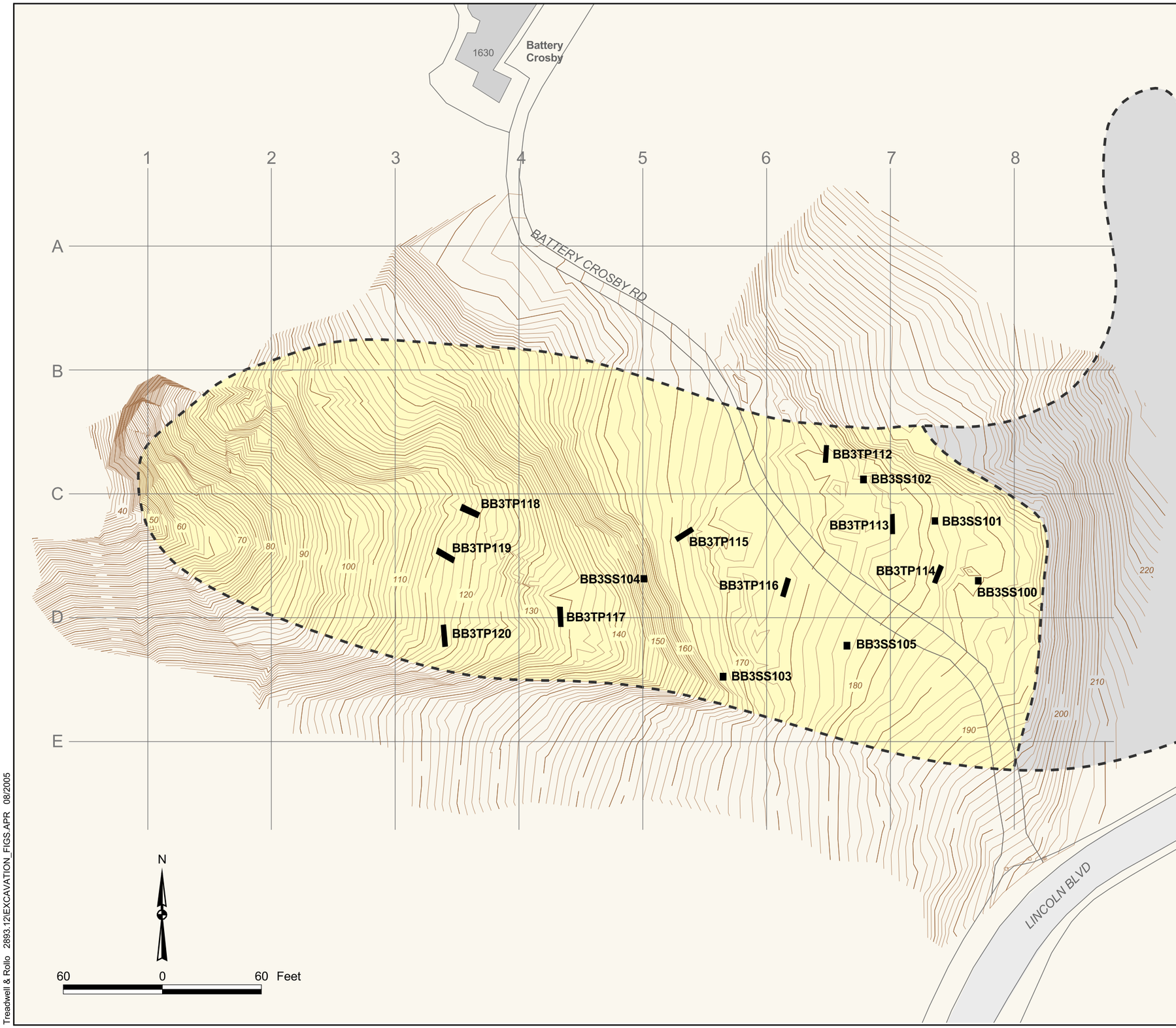
Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/04 Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):



LEGEND

- **BB3SS101** Trust Waste Profile Pot Hole
- **BB3TP114** Perfex Waste Profile Test Pit
- Estimated Limits of Fill
- Topographic Contour Pre-Excavation
  (Contour Interval : 5 ft)
  (Contour Interval : 1 ft)
- Generalized Disturbed Area Assumed to Have Chemicals of Concern in Soil (Excavation Area)
- Generalized Disturbed Area Suspected to Have No Chemicals of Concern in Soil
- 1630 Building and Number
- 5 / B Sampling Grid

Notes:
Estimated Limits of Fill from Remedial Action Plan (Treadwell&Rollo, 2004a).

Pre-excavation topography surveyed by R.W. Davis & Associates on June 21, 2004.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) National Geodetic Vertical Datum, NGVD 29.

BAKER BEACH DISTURBED AREA 3 IN-SITU WASTE PROFILE SAMPLE LOCATIONS

Treadwell&Rollo

THE PRESIDIO TRUST

Presidio Trust
34 Graham Street
P.O. Box 29052
San Francisco, CA
94129-0052
415/561-5300
fax 415/561-5315
August 2005

FIGURE F-1

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 08/2005

APPENDIX G
95% UCL Calculations for Nickel, Selenium, and Vanadium

APPENDIX G

PROCEDURES TO CALCULATE THE 95% UCL
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

At Baker Beach Disturbed Area 3 (BBDA 3), one remaining confirmation soil sample location had an exceedance of the applicable site cleanup level for nickel, three remaining confirmation soil sample locations had exceedances of the applicable site cleanup level for selenium, and two remaining confirmation soil sample locations had exceedances of the applicable site cleanup level for vanadium. Specifically, an exceedance of the applicable soil cleanup level for nickel was identified in sample BB3EX128[0.5]; exceedances of the applicable soil cleanup levels for selenium were identified in samples BB3EX128[0.5], BB3EX151[0.5], and BB3EX152[0.5]; and exceedances of vanadium were identified in samples BB3EX141[2.5] and BB3EX141[5.5] (Table 6). For these soils that were to remain onsite, the 95% Upper Confidence Limit (UCL) of the mean value of the data set was calculated and then compared to the applicable site cleanup levels to determine whether the remaining exceedance(s) presented an unacceptable health or environmental risk. The calculations were performed in conformance with EPA guidance (EPA, 2002). The calculations are shown in Table G-1 and are described below.

The first step in performing the UCL calculation is to analyze the data set to evaluate whether the data distribution approximates either a normal or lognormal data distribution. A visual inspection of histograms of the data for these constituents (Figures G-1A, G-1B, and G-1C) indicated that the data for all three metals are approximately lognormally distributed. Therefore, a lognormal distribution was assumed for the data sets, and the 95% UCL was calculated by the Land Method (Table G-1), which uses the following equation (EPA, 2002):

$$UCL = \exp\left(\bar{x} + \frac{s^2}{2} + \frac{Hs}{\sqrt{n-1}}\right)$$

where

UCL = Upper Confidence Limit on the mean concentration
$\bar{x}$ = arithmetic mean of the log-transformed concentration values
H = H-statistic
s = standard deviation of the log-transformed concentration values
n = number of samples in the data set

Values of the H-statistic can be obtained from tables in the published literature (Land, 1975). In the case of selenium, samples without detectable concentrations were assumed to contain the analyte at concentrations equal to one-half the detection limit given for the sample. However, given that the calculation used log-transformed concentration values,

the detection limits also required transformation. For example, a detection limit of 0.21 mg/kg was log-transformed according to the following equation.

$$< 0.21 \cong \ln\left(\frac{0.21}{\sqrt{2}}\right) = -1.907$$

In cases where field duplicates were collected, the concentration values of the two samples were averaged before performing the calculations.

The results of these calculations for BBDA 3 are discussed in greater detail in Section 3.2.4.3. of the main report.

Table G-1
Calculation of 95% Upper Confidence Limits for Nickel, Selenium, and Vanadium Confirmation Soil Sampling Data
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Sample ID	Sample Date	Lithology	Nickel	Selenium	Vanadium	Nickel - Averaged Duplicates	Selenium - Averaged Duplicates	Vanadium - Averaged Duplicates	Nickel - Ln(x)	Selenium - Ln(x) or Ln[(x)/sqrt(2)]	Vanadium - Ln(x)
			mg/kg	mg/kg	mg/kg						
Cleanup Levels		**Colma**	**110**	**0.5**	**90**						
		Sand	**70**	**0.75**	**92**						
		Serpentinite	**4500**	**0.5**	**74**						
		Chert[1]	**71**	**0.5**	**61**						
BB3EX100[0.5]	7/30/2004	Sand	30	< 0.25	42						
BB3EX101[0.5]	8/2/2004	Colma	69	0.42	68	69	0.42	68	4.2341	-1.2141	4.2195
BB3EX102[0.5]	8/2/2004	Sand	21	0.31	36	21	0.31	36	3.0445	-1.1712	3.5835
BB3EX103[0.5]	8/2/2004	Sand	20	0.26	27	20	0.26	27	2.9957	-1.3471	3.2958
BB3EX104[0.5]	8/2/2004	Sand	17	< 0.2	37	17	0.20	37	2.8332	-1.9560	3.6109
BB3EX105[0.5]	8/2/2004	Sand	24	0.45	39	24	0.45	39	3.1781	-0.7985	3.6636
BB3EX106[0.5]	8/4/2004	Sand	21	< 0.23	44	21	0.23	44	3.0445	-1.8162	3.7842
BB3EX107[0.5]	8/5/2004	Sand	22	< 0.24	35	22	0.24	35	3.0910	-1.7737	3.5553
BB3EX108[0.5]	8/5/2004	Sand	15	< 0.17	20	18	0.19	23.5	2.8622	-2.0073	3.1570
BB3EX108[0.5]-DUP080504A	8/5/2004	Sand	20	< 0.21	27						
BB3EX109[0.5]	8/6/2004	Sand	31	< 0.29	57						
BB3EX110[0.5]	8/6/2004	Sand	42	< 0.25	39	42	0.25	39	3.7377	-1.7329	3.6636
BB3EX111[0.5]	8/18/2004	Sand	21	**1.3**	43						
BB3EX112[0.5]	8/18/2004	Sand	22	0.37	44	22	0.37	44	3.0910	-0.9943	3.7842
BB3EX113[0.5]	8/18/2004	Sand	20	0.56	51	20	0.56	51	2.9957	-0.5798	3.9318
BB3EX114[0.5]	8/18/2004	Sand	26	0.4	47	26	0.40	47	3.2581	-0.9163	3.8501
BB3EX115[0.5]	8/18/2004	Sand	26	0.39	42						
BB3EX116[0.5]	8/18/2004	Sand	56 J-	0.52	51						
BB3EX117[0.5]	8/30/2004	Sand	20	< 0.22	56	20	0.22	56	2.9957	-1.8607	4.0254
BB3EX118[0.5]	8/30/2004	Colma	**180**	< 0.24	63						
BB3EX119[0.5]	8/30/2004	Sand	28	0.56	31	28	0.56	31	3.3322	-0.5798	3.4340
BB3EX120[0.5]	8/30/2004	Sand	22	< 0.22	45						
BB3EX120[0.5]-DUP083004A	8/30/2004	Sand	24	< 0.26	49						
BB3EX121[0.5]	8/30/2004	Sand	18	< 0.25	26	18	0.25	26	2.8904	-1.7329	3.2581
BB3EX122[0.5]	9/14/2004	Colma	**270**	**2**	53						
BB3EX123[0.5]	9/14/2004	Sand	22	**1.1**	43						
BB3EX124[0.5]	9/14/2004	Sand	23	0.75	33	23	0.75	33	3.1355	-0.2877	3.4965
BB3EX125[0.5]	9/14/2004	Sand	20	**0.85**	34						
BB3EX126[0.5]	9/14/2004	Sand	19	**0.86**	37						
BB3EX127[0.5]	9/14/2004	Sand	20	**0.88**	36						
BB3EX128[0.5]	10/1/2004	Colma	**150**	**0.7**	58	150	0.70	58	5.0106	-0.3567	4.0604
BB3EX129[0.5]	10/1/2004	Sand	22	< 0.25	20	22	0.25	20	3.0910	-1.7329	2.9957
BB3EX130[0.5]	10/1/2004	Sand	24	0.32	36	24	0.32	36	3.1781	-1.1394	3.5835
BB3EX131[0.5]	10/1/2004	Sand	22	0.31	32	22	0.37	30	3.0681	-0.9943	3.4012
BB3EX131[0.5]-DUP100104A	10/1/2004	Sand	21	0.43	28						
BB3EX132[0.5]	10/1/2004	Sand	22	0.35	39	22	0.35	39	3.0910	-1.0498	3.6636
BB3EX133[0.5]	10/1/2004	Sand	18	0.39	32	18	0.39	32	2.8904	-0.9416	3.4657
BB3EX134[0.5]	10/1/2004	Sand	17	0.41	31	17	0.41	31	2.8332	-0.8916	3.4340
BB3EX135[0.5]	10/1/2004	Sand	22	0.25	41	22	0.25	41	3.0910	-1.3863	3.7136
BB3EX136[0.5]	10/1/2004	Sand	21	0.26	30	21	0.26	30	3.0445	-1.3471	3.4012
BB3EX137[0.5]	11/5/2004	Sand	22	< 0.19	32	22	0.19	32	3.0910	-2.0073	3.4657
BB3EX138[0.5]	11/5/2004	Sand	18	< 0.25	37	18	0.25	37	2.8904	-1.7329	3.6109
BB3EX139[0.5]	11/5/2004	Sand	22	< 0.27	49	22	0.27	49	3.0910	-1.6559	3.8918
BB3EX140[0.5]	11/5/2004	Sand	21	< 0.26	41	21	0.26	41	3.0445	-1.6936	3.7136
BB3EX141[2.5]	11/5/2004	Pre-1958 Road Fill[2]	82	< 0.24	**91**	82	0.24	91	4.4067	-1.7737	4.5109
BB3EX141[5.5]	11/5/2004	Pre-1958 Road Fill[2]	68	< 0.23	**100**	68	0.23	100	4.2195	-1.8162	4.6052
BB3EX142[0.5]	11/5/2004	Sand	31	< 0.21	55	31	0.21	55	3.4340	-1.9072	4.0073
BB3EX143[0.5]	11/5/2004	Sand	19	< 0.22	38	20	0.25	38.5	2.9957	-1.7329	3.6507
BB3EX143[0.5]-DUP110504A	11/5/2004	Sand	21	< 0.28	39						
BB3EX144[0.5]	11/5/2004	Sand	23	< 0.24	35	23	0.12	35	3.1355	-2.4668	3.5553
BB3EX145[0.5]	11/22/2004	Chert	31	< 0.21	40						
BB3EX145[1.0]	11/22/2004	Sand	24	< 0.23	31						
BB3EX146[0.5]	11/22/2004	Chert	53	< 0.24	25						
BB3EX146[1.0]	11/22/2004	Sand	23	< 0.21	28	23	0.21	28	3.1355	-1.9072	3.3322
BB3EX147[0.5]	11/22/2004	Chert	36	< 0.25	34						
BB3EX147[1.5]	11/22/2004	Sand	23	< 0.26	38	23	0.26	38	3.1355	-1.6936	3.6376
BB3EX148[0.5]	11/22/2004	Chert	32	< 0.25	33						
BB3EX149[0.5]	11/22/2004	Sand	20	< 0.22	30	20	0.22	30	2.9957	-1.8607	3.4012
BB3EX150[0.5]	11/22/2004	Chert	13	< 0.23	23	13	0.23	23	2.5649	-1.8162	3.1355
BB3EX150[2.5]	11/22/2004	Sand	25	< 0.23	37	23	0.24	35.5	3.1355	-1.7947	3.5695
BB3EX150[2.5]-DUP112204A	11/22/2004	Sand	21	< 0.24	34						
BB3EX151[0.5]	11/23/2004	Chert	14 J-	**0.72**	28	14	0.72	28	2.6391	-0.3285	3.3322
BB3EX152[0.5]	11/23/2004	Chert	17 J-	**1.3**	36	17	1.3	36	2.8332	0.2624	3.5835
BB3EX153[0.5]	11/23/2004	Sand	19 J-	0.32	30	19	0.32	30	2.9444	-1.1394	3.4012
BB3EX154[0.5]	11/23/2004	Sand	19 J-	< 0.22	30	19	0.22	29.5	2.9444	-1.8607	3.3844
BB3EX154[0.5]-DUP112304A	11/23/2004	Sand	19 J-	< 0.22	29						
Assumed Data Distribution - from histograms (Figures G-1A, G-1B, and G-1C)									Lognormal	Lognormal	Lognormal
Sum, E(x)									137	-60	156
Number, n									43	43	43
Mean, x = E(x) / n									3.2	-1.4	3.6
Standard Deviation, s									0.5	0.6	0.3
Degrees of freedom, df = n - 1									42	42	42
H statistic (95%) - from table (Land, 1975)									2.498	2.606	2.320
95% Upper Confidence Limit, 95% UCL = $\exp(\text{mean}(x)+(s^2/2)+(H*s/(n-1)^{1/2}))$									**32**	**0.38**	**45**

References
Treadwell & Rollo, Inc., 2004a. *Remedial Action Plan (RAP) for and Fill Site 6A and Baker Beach Disturbed Areas 3 and 4.* March.
U.S. Environmental Protection Agency, 1986. *Test Methods for Evaluating Solid Waste - Physical/Chemical Methods, SW-846, Revision 0.* September.
Land, C.E., 1975. *Tables of Confidence Limits for Linear Functions of the Normal Mean and Variance, Selected Tables in Mathematics and Statisctics, Vol. III,* American Mathematical Society.
EKI, 2002. *Development of Presidio-wide Cleanup Levels for Soil, Sediment, Groundwater, and Surface Water.* October.

Notes
mg/kg - milligrams per kilogram
Values in bold typeface indicate cleanup level exceedances.
Shading indicates area was overexcavated; these data are not included in the 95% UCL calculations.
[1] Cleanup levels for chert are from the Presidio Cleanup Levels Document (EKI, 2002). Cleanup levels for all other lithologies are from the RAP (Treadwell & Rollo, 2004a).
[2] Pre-1958 Road Fill consists of a mixture of Colma, beach/dune sand, and serpentinite. Analytical results are compared against cleanup levels for serpentinite.

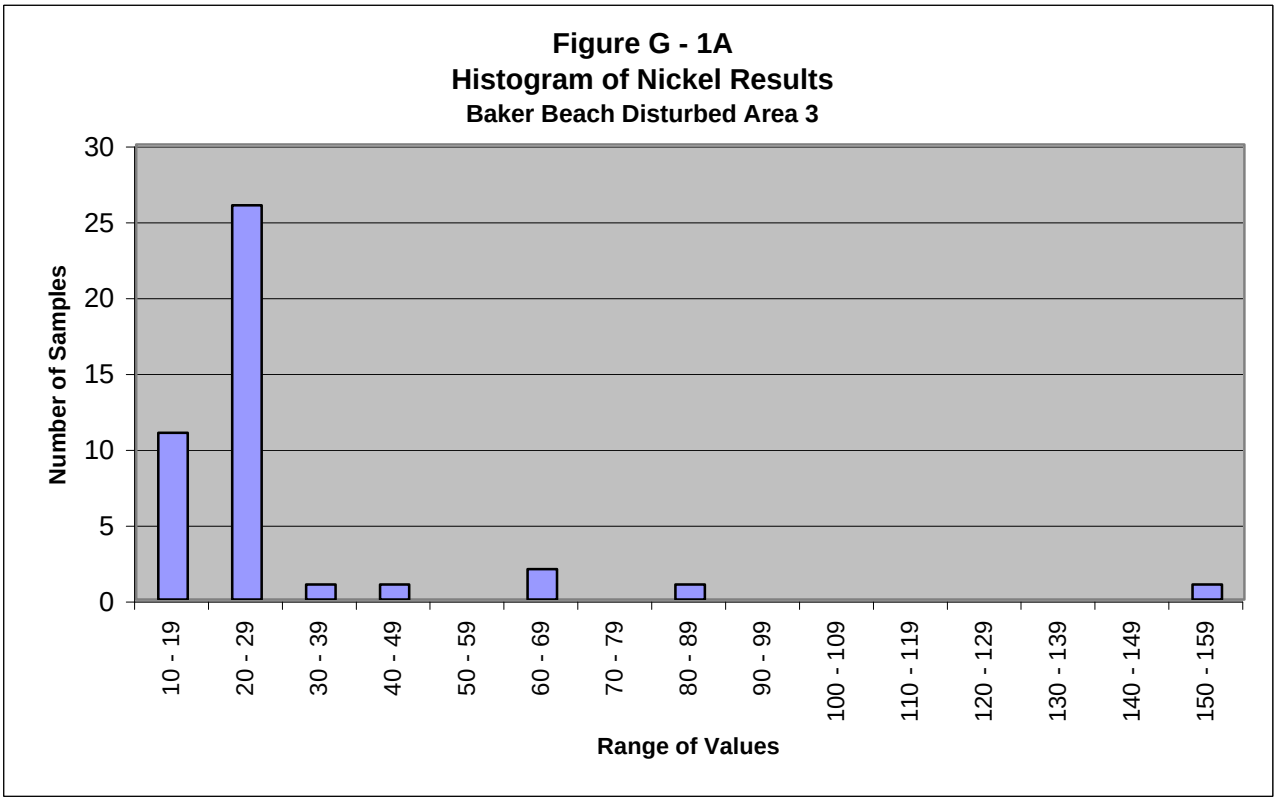


Figure G - 1A
Histogram of Nickel Results
Baker Beach Disturbed Area 3
Number of Samples
30
25
20
15
10
5
0
10 - 19
20 - 29
30 - 39
40 - 49
50 - 59
60 - 69
70 - 79
80 - 89
90 - 99
100 - 109
110 - 119
120 - 129
130 - 139
140 - 149
150 - 159
Range of Values

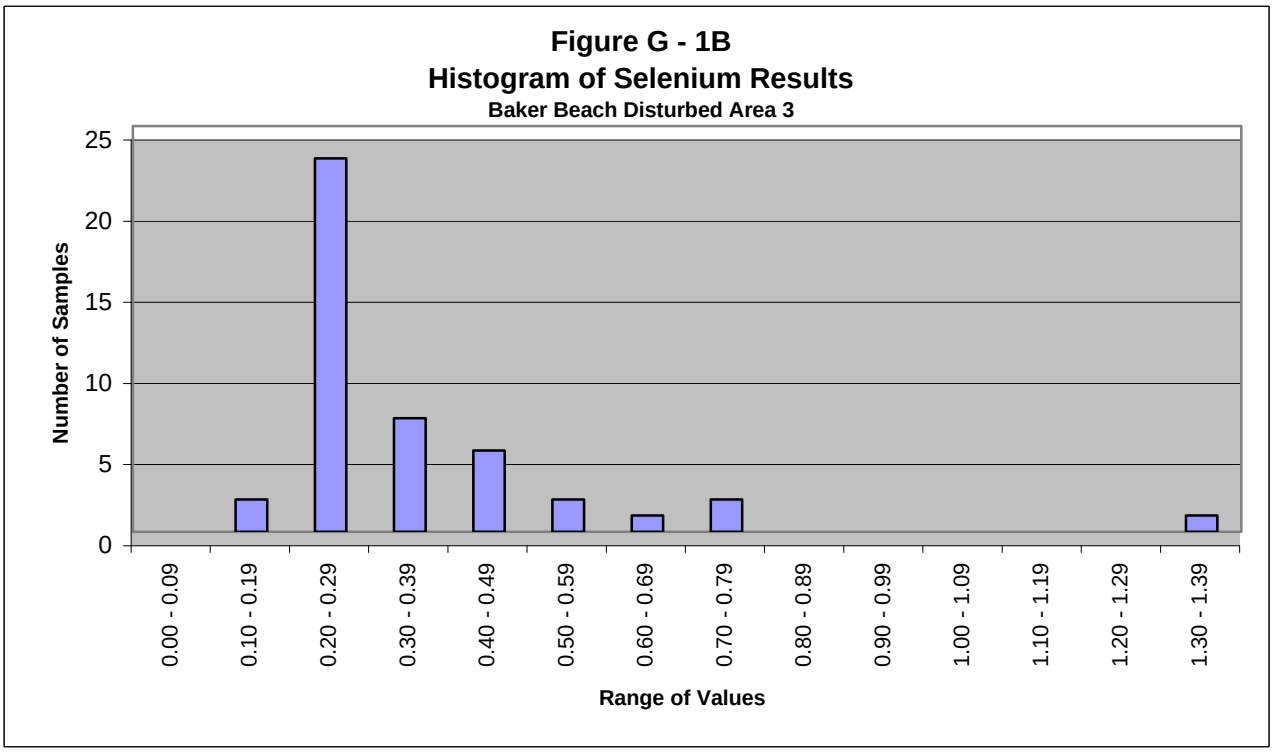


Figure G - 1B
Histogram of Selenium Results
Baker Beach Disturbed Area 3
Number of Samples
25
20
15
10
5
0
0.00 - 0.09
0.10 - 0.19
0.20 - 0.29
0.30 - 0.39
0.40 - 0.49
0.50 - 0.59
0.60 - 0.69
0.70 - 0.79
0.80 - 0.89
0.90 - 0.99
1.00 - 1.09
1.10 - 1.19
1.20 - 1.29
1.30 - 1.39
Range of Values

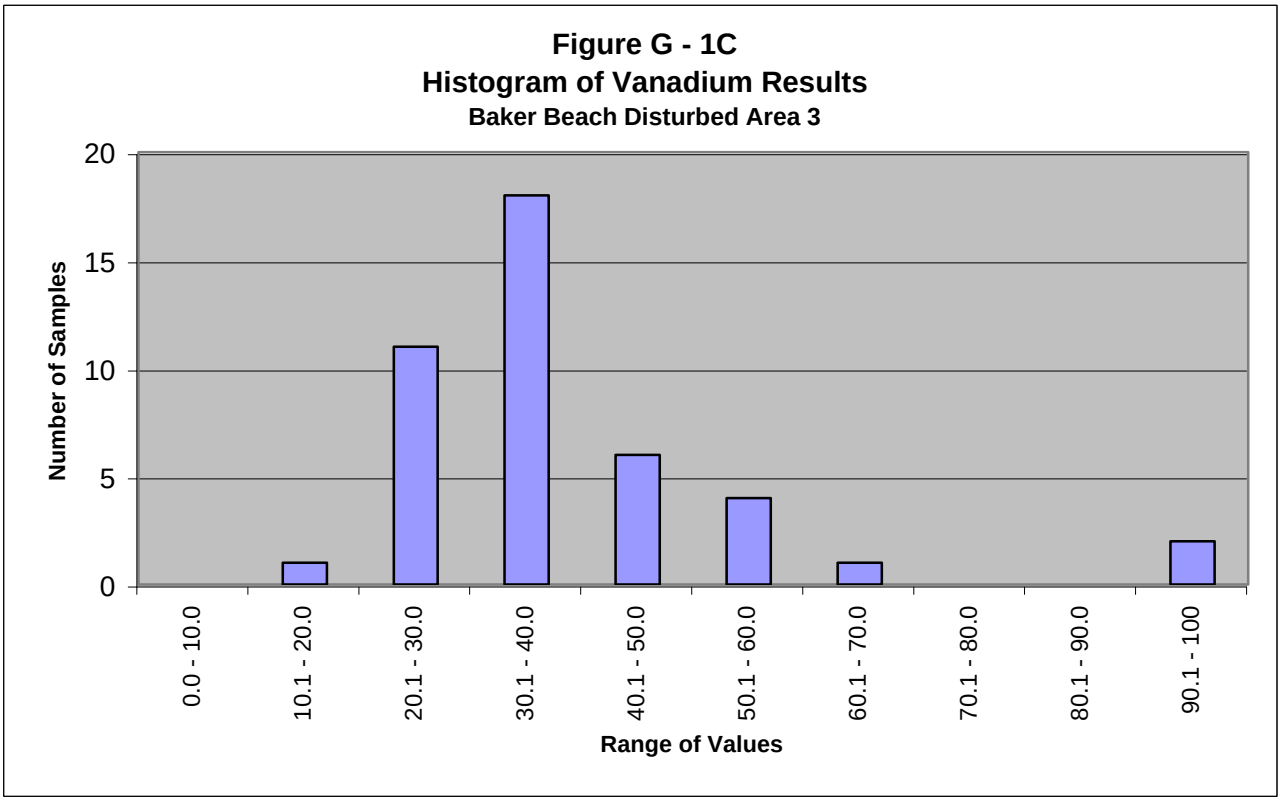


Figure G - 1C
Histogram of Vanadium Results
Baker Beach Disturbed Area 3
Number of Samples
20
15
10
5
0
0.0 - 10.0
10.1 - 20.0
20.1 - 30.0
30.1 - 40.0
40.1 - 50.0
50.1 - 60.0
60.1 - 70.0
70.1 - 80.0
80.1 - 90.0
90.1 - 100
Range of Values

APPENDIX H
Trucking and Hazardous Waste Manifests

Appendix H is located on Disc 2.

APPENDIX I
Boring Logs and Well Construction Details

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size	**Gravels** (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	**Silts and Clays** LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

BAKER BEACH DISTURBED AREA 3
Presidio of San Francisco, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 07/22/05 | Project No. 2893.12 | Figure I-1

PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

Log of Monitoring Well BB3GW100

Boring location: See Site Plan, Figure 5**	Logged by: M. Chamberlain
Date started: 12/6/04 — Date finished: 12/6/04	Drilled By: Gregg Drilling
Drilling method: Hollow Stem Auger	Coordinates: Northing: 478398.657, Easting: 1428456.285
Hammer weight/drop: N/A — Hammer type: Automatic - Ryno	
Sampler: Split Spoon	

Top of Casing Elevation: 193.84[1]

DEPTH (feet)	LITHOLOGY	MATERIAL DESCRIPTION
1–2	GW	GRAVEL (GW) dark red brown, very dense, dry, angular to sub-angular, well graded, no odor, 15 percent sand, 5 percent fines,
3–17	SP	SAND (SP) light brown, loose, moist, sub-rounded to sub-angular, non-plastic, poorly graded, no odor, 5 percent fines, trace fine gravel, (dune sand)
18–21	SP	SAND (SP) dark brown, loose, moist, sub-angular, slightly plastic, poorly graded, no odor, 15 percent fines, trace fine gravel
21–25	SM	SILTY SAND (SM) light yellow brown, dense, moist, sub-angular, slightly plastic, moderately graded, no odor, 25 percent fines, mottled, some roots

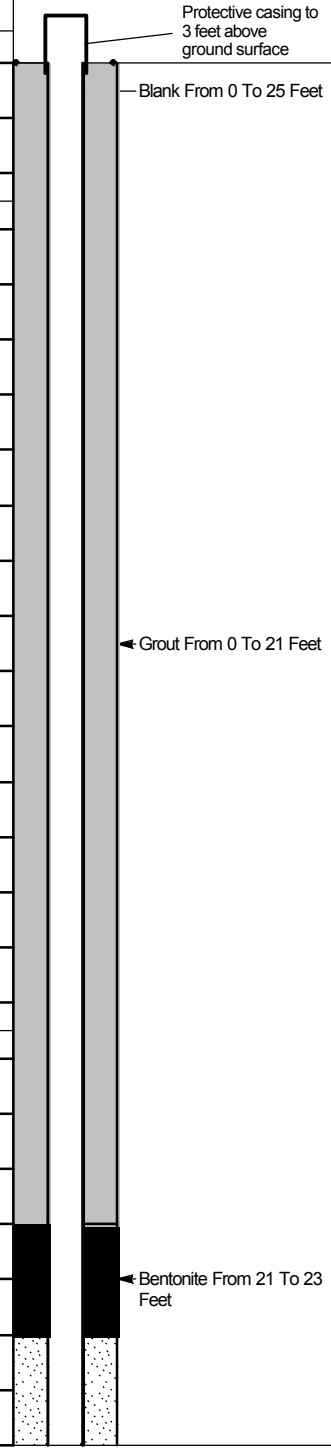
SAMPLES: Sample Number, Sample, Blow Count, Recovery (feet); OVM (ppm)

CHERT ROAD

FILL SAND

DUNE SAND

WELL COMPLETION INFORMATION



Treadwell&Rollo

Project No.:	Figure:
2893.12	I-2a

TEST ENVIRONMENTAL WELL REV1 289312 WELL.GPJ T&R.GDT 7/21/05

PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

Log of Monitoring Well BB3GW100

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	WELL COMPLETION INFORMATION
							Top of Casing Elevation: 193.84[1]	
26								Screened Casing From 25 To 35 Feet
27								
28								
29								
30								Sand From 23 To 36.5 Feet
31						SM	∇ DUNE SAND	
32								
33								
34								
35								
36								
37						CL	CLAY (CL) **COLMA** dark brown, stiff, wet, plastic, no odor	
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

Boring terminated at a depth of 36.5 feet below ground surface.
Groundwater encountered at a depth of 30.5 feet during drilling.

[1] Elevations based on Presidio Lower Low Water Datum.
* Horizontal Coordinated from Survey by Presidio Trust, 12/23/04, NAD 27, Datum (CA State Plan, Zone 3, ft).
** Construction Completion Report Baker Beach Disturbed Areas 3 & 4.

Treadwell&Rollo

Project No.: 2893.12

Figure: I-2b

TEST ENVIRONMENTAL WELL REV1 289312 WELL.GPJ T&R.GDT 7/21/05

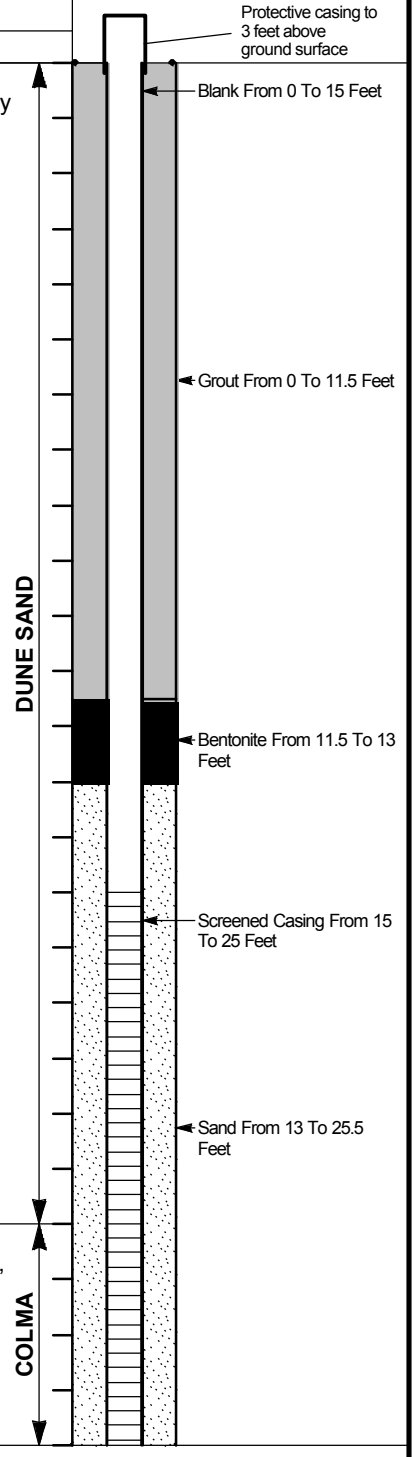
PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

Log of Monitoring Well BB3GW101

Boring location: See Site Plan, Figure 5**	Logged by: M. Chamberlain
Date started: 12/6/04 — Date finished: 12/6/04	Drilled By: Gregg Drilling
Drilling method: Hollow Stem Auger	Coordinates: Northing: 478552.709, Easting: 1428203.619
Hammer weight/drop: N/A — Hammer type: Automatic - Ryno	
Sampler: Split Spoon	

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Top of Casing Elevation: 158.28[1]
1–4						SP	SAND (SP) brown, loose, moist, sub-angular, non-plastic, poorly graded, no odor
5–6		■				SP	
7–9						SP	
10–11		■				SP	
12–14						SP	
15–16		■				SP	
17–19						SP	
20–21		■				SP	
21–22						CL	CLAY (CL) dark brown gray, stiff, moist, poorly graded, plastic, no odor
23–25						CL	grades light gray brown

WELL COMPLETION INFORMATION



Treadwell&Rollo

Project No.:	Figure:
2893.12	I-3a

PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

Log of Monitoring Well BB3GW101

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	WELL COMPLETION INFORMATION
							Top of Casing Elevation: 158.28[1]	
26								Bentonite From 25.5 To 26 Feet
27								
28						CL	COLMA	Sand From 26 To 31.25 Feet
29								
30								
31							SERPENTINE and SHALE gravel — FRANCISCAN	
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

Boring terminated at a depth of 31.25 feet below ground surface.
Groundwater not encountered during drilling.

[1] Elevations based on Presidio Lower Low Water Datum.
* Horizontal Coordinated from Survey by Presidio Trust, 12/23/04, NAD 27, Datum (CA State Plan, Zone 3, ft).
** Construction Completion Report Baker Beach Disturbed Areas 3 & 4.

Treadwell&Rollo

Project No.: 2893.12

Figure: I-3b

TEST ENVIRONMENTAL WELL REV1 289312 WELL.GPJ T&R.GDT 7/21/05

PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

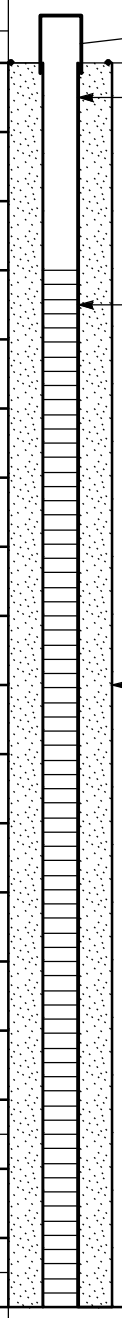
Log of Monitoring Well BB3PZ101

Boring location: See Site Plan, Figure 5**	Logged by: M. Chamberlain
Date started: 12/13/04 — Date finished: 12/13/04	Drilled By: T&R
Drilling method: Hand Auger	Coordinates: Northing: 478423.489 Easting: 1428322.282
Hammer weight/drop: NA — Hammer type: NA	
Sampler: NA	

Top of Casing Elevation: 156.97[1]

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	
1–4						SP	SAND (SP) dark brown, moderately dense, moist, sub-angular, non-plastic, poorly graded, no odor, 5 percent fines, trace chert gravel, angular	DUNE SAND
5–13						SP	SAND (SP) brown, moderately dense, moist, sub-angular, non-plastic, poorly graded, no odor, less than 5 percent fines	DUNE SAND
13–14						SP	SAND (SP) brown black, moderately dense, moist, sub-angular, slightly plastic, poorly graded, no odor, 5 percent fines	DUNE SAND
14–15						SP	SAND (SP) light brown, moderately dense, moist, sub-angular, non-plastic, poorly graded, no odor	DUNE SAND
15–17						SP	SAND (SP) red brown, moderately dense, moist to wet, sub-angular, non-plastic, poorly graded, no odor, 5 percent fines	DUNE SAND
17–18						CL	CLAY (CL) gray brown, stiff, wet, 5 percent fine sand	COLMA

WELL COMPLETION INFORMATION



Boring terminated at a depth of 18 feet below ground surface. Groundwater encountered at a depth of 16.5 feet during drilling.

[1] Elevations based on Presidio Lower Low Water Datum.
* Horizontal Coordinated from Survey by Presidio Trust, 12/23/04, NAD 27, Datum (CA State Plan, Zone 3, ft).
** Construction Completion Report Baker Beach Disturbed Areas 3 & 4.

Treadwell&Rollo

Project No.: 2893.12 — Figure: I-4

TEST ENVIRONMENTAL WELL REV1 289312 WELL2.GPJ T&R.GDT 7/21/05

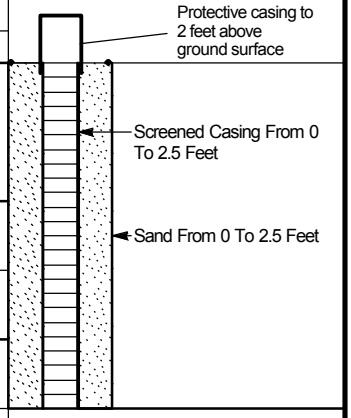
PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

Log of Monitoring Well BB3SW100

Boring location: See Site Plan, Figure 5**	Logged by: M. Chamberlain
Date started: 12/8/04 — Date finished: 12/8/04	Drilled By: T&R
Drilling method: Hand Auger	Coordinates: Northing: 478486.369 Easting: 1427951.26
Hammer weight/drop: NA — Hammer type: NA	
Sampler: NA	

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	
							Top of Casing Elevation: 67.34[1]	
1						SP	SAND (SP) brown, loose, moist, sub-angular, non-plastic, poorly graded, no odor, 5 percent fines	DUNE SAND
2						CL	CLAY (CL) dark gray-brown, stiff, moist, slightly plastic, no odor	COLMA
3								
4								
5								
6								
7								
8								
9								
10								

WELL COMPLETION INFORMATION



Boring terminated at a depth of 2.5 feet below ground surface.
Groundwater not encountered during drilling.

[1] Elevations based on Presidio Lower Low Water Datum.
* Horizontal Coordinated from Survey by Presidio Trust, 12/23/04, NAD 27, Datum (CA State Plan, Zone 3, ft).
** Construction Completion Report Baker Beach Disturbed Areas 3 & 4.

Treadwell&Rollo

Project No.: 2893.12 — Figure: I-5

TEST ENVIRONMENTAL WELL REV1 289312 WELL2.GPJ T&R.GDT 7/21/05

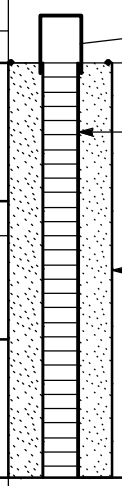
PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

Log of Monitoring Well BB3SW101

Boring location: See Site Plan, Figure 5**	Logged by: M. Chamberlain
Date started: 12/8/04 — Date finished: 12/8/04	Drilled By: T&R
Drilling method: Hand Auger	Coordinates: Northing: 478459.286 Easting: 1428045.948
Hammer weight/drop: NA — Hammer type: NA	
Sampler: NA	

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	
							Top of Casing Elevation: 78.98[1]	
1						SP	SAND (SP) brown, moderately dense, moist, sub-angular, non-plastic, poorly graded, no odor, 5 percent fines	DUNE SAND
2						CL	CLAY (CL) yellow brown, medium stiff to stiff, moist, slightly plastic, no odor	COLMA
3								
4								
5								
6								
7								
8								
9								
10								

WELL COMPLETION INFORMATION



Boring terminated at a depth of 3 feet below ground surface.
Groundwater not encountered during drilling.

[1] Elevations based on Presidio Lower Low Water Datum.
* Horizontal Coordinated from Survey by Presidio Trust, 12/23/04, NAD 27, Datum (CA State Plan, Zone 3, ft).
** Construction Completion Report Baker Beach Disturbed Areas 3 & 4.

Treadwell&Rollo

Project No.: 2893.12 — Figure: I-6

TEST ENVIRONMENTAL WELL REV1 289312 WELL2.GPJ T&R.GDT 7/21/05

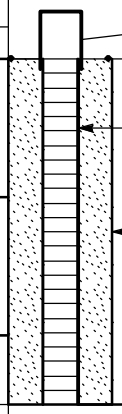
PROJECT: **BAKER BEACH DISTURBED AREA 3**
Presidio of San Francisco, California

Log of Monitoring Well BB3SW102

Boring location: See Site Plan, Figure 5**	Logged by: M. Chamberlain
Date started: 12/8/04 — Date finished: 12/8/04	Drilled By: T&R
Drilling method: Hand Auger	Coordinates: Northing: 478462.882 Easting: 1428201.349
Hammer weight/drop: NA — Hammer type: NA	
Sampler: NA	

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (feet)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	
							Top of Casing Elevation: 115.39[1]	
1						SP	▽ SAND (SP) brown, moderately dense, wet, sub-angular, non-plastic, poorly graded, no odor, 5 percent fines	DUNE SAND
2						CL	CLAY (CL) dark gray brown, stiff, wet, slightly plastic, no odor	COLMA
3								
4								
5								
6								
7								
8								
9								
10								

WELL COMPLETION INFORMATION



Boring terminated at a depth of 2.5 feet below ground surface. Groundwater encountered at a depth of 0.25 feet during drilling.

[1] Elevations based on Presidio Lower Low Water Datum.
* Horizontal Coordinated from Survey by Presidio Trust, 12/23/04, NAD 27, Datum (CA State Plan, Zone 3, ft).
** Construction Completion Report Baker Beach Disturbed Areas 3 & 4.

Treadwell&Rollo

Project No.: 2893.12 — Figure: I-7

APPENDIX J
Monitoring Well Development and Groundwater Sampling Forms

Table J-1
Sampling Schedule Fourth Quarter 2004
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Site Name/ID	Well ID	Sampling Information				Analytical Requirements							
		Water Level/Seep Evaluation	Sampling Method[1]	Well Access[2]	Sampling Order[3]	General Chemistry Parameters	Dissolved Metals [4]	Total Metals [4] (Not Filtered)	Total Dissolved Solids	Dissolved Oxygen [5]	TPHg	TPHd	TPHfo
						various	EPA 6010/6020	EPA 6010/6020	EPA 160.1	(field probe)	EPA 8015	EPA 8015 EPA 3630A	EPA 8015 EPA 3630A
Baker Beach Distrubed Area 3	BB3GW100	Q	Modified	Hand	1	Q	Q (22)		Q	Q	Q	Q	Q
Baker Beach Distrubed Area 3	BB3GW101	Q	Modified	Hand	1	Q	Q (22)		Q	Q	Q	Q	Q
Baker Beach Distrubed Area 3	BB3PZ101 [6,7]	Q	Surface	Hand	1	Q	Q (22)	Q (22)	Q	Q	Q	Q	Q
Baker Beach Distrubed Area 3	BB3SW100 [7]	Q	Surface	Hand	1	Q	Q (22)	Q (22)	Q	Q	Q	Q	Q
Baker Beach Distrubed Area 3	BB3SW101 [7]	Q	Surface	Hand	1	Q	Q (22)	Q (22)	Q	Q	Q	Q	Q
Baker Beach Distrubed Area 3	BB3SW102 [7]	Q	Surface	Hand	1	Q	Q (22)	Q (22)	Q	Q	Q	Q	Q

Notes

EM - Elevation Monitoring only

Surface - Surface Water Sampling per Standard Operating Procedure

Q - Sample during all quarters unless otherwise directed

TPHg, TPHd, TPHfo, TPHss: Total Petroleum Hydrocarbons as gasoline, diesel, fuel oil, and stoddard solvent - EPA 3630A: Silica Gel Cleanup Step

General Chemistry Parameters; Alkalinity (total), bicarbonate, carbonate, chloride, fluoride, nitrate+nitrite (as N), sulfate

1 - Modified and Surface water sampling techniques. A description of sampling techniques can be found in the *Field Sampling Plan, Presidio Groundwater Monitoring Project* (Treadwell & Rollo, 2001a).

2 - Hand - Well accessible by hand truck only

3 - Sampling Order: At each site sample the wells with the lowest number first. For example, sample the number 1 wells first, the number 2 wells second etc. At this site, all are noted as "1 - Wells without significant detections of chemicals of concern."

4 - 22 Metals List - Al, Sb, As, Ba, Be, Cr, Cd, Ca, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Se, Th, V, and Zn.

5 - Dissolved Oxygen (DO) concentration included in field sampling logs. DO values recorded immediately before sample collection.

BB3PZ101.

metals.

The Presidio Trust

Sheet 1 of 1

WELL DEVELOPMENT DATA SHEET

BORING NO. _____ WELL NO. 387GW100

Project: Presidio
Project No.: 2893
Date(s) of Installation: _____
Date(s) of Development: _____
Personnel/Company: _____
Type of Rig Used: _____

Casing Diameter/Type: 2"
Borehole Diameter: 8"
Screened Interval(s): _____
Total Length of Well Casing: _____
Measured Total Depth (TOC) Initial: 38.20
Final: 38.20
Initial Depth to Water (TOC): 32.57 Date: 12/14/04 Time: 950
Stabilized Depth to Water (TOC): 36.60 Date: 12/14/04 Time: 1115

TECHNIQUE(S)	DEVELOPMENT EQUIPMENT TYPE/CAPACITY
___ Jetting (Airlift)	
X Surge Block	2" surge block
___ Bailing	
X Pumping	pos. air disp pump
___ Other	

FLUIDS ADDED

Lost Drilling Fluid: _____ Gallons
Lost Purge Water: _____ Gallons
Water During Installation: _____ Gallons
Total Fluids Added: _____ Gallons
Source of Added Water: _____
Sample Collected of Added Water: Y N
Sample Designation of Added Water: _____

PURGE VOLUME CALCULATION

Casing Volume: 6.13 Ft. of water
x .9 Gallons/Foot
= 5.5 Gallons per Single Casing Volume
Sand Pack Volume: _____ Ft. of Saturated Sand Pack
x _____ Gallons/Foot (borehole diameter)
= _____ Gallons (in borehole)
- _____ Gallons of Casing Volume
= _____ x 0.3 (Assuming porosity = 30%)
= _____ Gallons Within Sand Pack
Single Purge Volume: _____ Gallons (Casing Vol. + Sand Pack Vol. + Fluids Added)
Minimum Purge Volume: 55 Gallons
Actual Purge Volume: _____ Gallons
Volume Measured by: _____
Rate of Development ~1 Gallons/Minute (Hour, Day)
Pumping Rate/Depth _____ @ _____ Ft. (Below Grd.)
Immiscible Phases Present: Y N Thickness _____

Development Criteria: surged well for 15min prior to purging

Total Volume Discharged	Rate of Discharge	Time	Temp	pH	Specific* Conductance	Turbidity (NTU)	D.O., Clarity, Odor, PID Readings, Other:
5.5	~1gpm	1012	59.5	7.0	1844	7000	Brown, cloudy
11.0		1018	59.8	7.1	1724	>1000	Hard Bottom
16.5		1025	59.9	7.1	1687	>1000	Brown, cloudy
22.0		1031	59.9	7.1	1614	>1000	" "
27.5		1037	59.7	7.1	1573	581	light brown, cloudy
33.0		1044	59.9	7.1	1571	375	"
38.5		1050	59.9	7.2	1607	417	"
44.0		1058	59.9	7.2	1627	481	"
49.5		1106	59.9	7.2	1645	411	"
55.0		1114	59.9	7.2	1657	387	"

Development Completed at 55 Gallons Discharged. Date: 12/14/04 Time: 1115

Personnel: Lucchesi Sung

* Specific Conductance readings temperature compensated to 25°C, if not, report temperatures at which reading obtained.

Field Instrument Calibration Log

Major Work Order No.: 2593

Project Name: PRESIDIO

Instrument Type	Instrument SN	Calibration Type	Date	By
YSI 556	01F0619AD	D.O. → 99.6 → 100%	12/14/04	[illegible]
		pH 7.0 → 7.29/7.00		
		pH 4.0 → 4.82/4.00		
		COND. 3900 µS → 3891/3900		
		ORP - 237.5 → 245.4/237.5		
HYDROLAB	607097	pH - 7.15 → 7.00		
		pH - 3.98 → 4.00		
		COND - 3771 - 3900 µS		
YSI 556	01F0619AD	pH - 6.97 → 7.00	12/15/04	[illegible]
		pH 4.93 → 4.00		
		COND - 3885 → 3900		
		ORP - 232.6 → 237.5		
		D.O. → 100.9 → 100%		
YSI 556	01F0619AD	pH - 6.48 → 7.00	12/16/04	[illegible]
		pH 4.12 → 4.00		
		COND - 3900 → 3900 µS		
		ORP - 234.7 → 237.5		
		D.O. 99.5 → 100%		
		pH - 6.31 → 7.00	12/17/04	[illegible]
		pH 4.50 → 4.00		
		COND - 3903 → 3900 µS		
		ORP - 233.5 → 237.5		
		D.O. 95.4 → 100%		

Field Instrument Calibration Log

Major Work Order No.: 2893

Project Name: Presidio

Instrument Type	Instrument SN	Calibration Type	Date	By
Ultrameter	608511	7.0 = 7.0 PH	12/14	MT
		4.0 = 4.0		MT
		10.0 = 10.0		MT
		3900 µS = 3899 Cond		MT
Hach	021100029033	20NTU = 20		MT
Ultrameter		7.0 = 7.0	12/15	MT
		4.0 = 4.0		MT
		10.0 = 10.0		MT
		3900 µS = 3900 µS		MT
Hach		20 NTU = 20		MT
Ultrameter		7.0 = 7.0	12/16	MT
		4.0 = 4.0		MT
		10.0 = 10.0		MT
		3900 µS = 3900 µS		MT
Hach		20NTU = 20		MT
Ultrameter		7.0 = 7.0	12/17	MT
		4.0 = 4.0		MT
		10.0 = 10.0		MT
		3900 µS = 3900 µS		MT
Hach		20NTU = 20		MT

Field Instrument Calibration Log

Major Work Order No.: Treadwell + Rollo

Project Name: Presidio

Instrument Type	Instrument SN	Calibration Type (read/stand → calibrated to.)	Date	By
Slope Sounders	John	3.99/4.01	12/13/04	@ well 937GW32R @ 103
	Mike T.	4.00/4.01		
	Sooch	4.01/4.01		
	Morgan G.	4.01/4.01		
YSI550A	04B0822AC	102.0%/100% → 100%	12/14/04	M. Gillies
YSI550A	04E8408AE	95.9%/100% → 100%		
~~YSI 550~~				
Ultrameter	614826	pH 4.32/4.00 → 4.00	12/16/04	
		6.65/7.00 → 7.00		
		10.81/10.00 → 10.00		
		cond. 3905/3900 uS		
Turbidimeter	011 10002451	21.3/20 NTU		
YSI550A	04B0822AC	99.9%/100%	12/16/04	
YSI550A	04B0822AC	100.4%/100%	12/17/04	MG
" "	04E8408AE	101.8%/100%		
Ultrameter	614826	pH 4.04/4.00		
		7.04/7.00		
		10.15/10.00 → 10.00		
		cond. 3885/3900 uS		
Turbidimeter	011 10002451	21.7/20 NTU		

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Presidio				PROJECT NUMBER			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI556	01F0619AM	12/21/04, 910	D.O. 100%	99.8%	10%	11.5°C	MK
			Cond 3900 µS	3,640 µS	→ 3900 µS	13.2°C	
			pH 4.00	3.96	→ 4.00	12.6°C	
			pH 7.00	7.15	→ 7.00	12.8°C	
			ORP 244 mV	227	→ 244 mV	12.9°C	
Hach 2100P	0 00200024324	12/21/04 920	20 NTU	21.7 NTU	10%	—	
YSI 556	01F0619AM	12/21/04 850	D.O. 100%	103%	→ 100%	11.2°C	MK
			Cond 3900 µS	3891	→ 10%	14.3°C	
			pH 4.00 7.00	4.25 6.96	→ 4.00 10%	15.0°C	
			ORP 244 mV	would not calibrate, tried to troubleshoot w/ Equipco – sensor bad		°C	
Hach 2100P	00020002 4324	900	20 NTU	20.4 NTU	10%	—	

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Presidio				PROJECT NUMBER			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI556	01F0619AD	12/22/04 1035	D.O. 100%	95.9 →	101.2%	23.4	[illegible]
↓	↓	12/21/04	Cond 1,000uS	1,000uS	10%		Equipco
↓	↓	↓	pH 7.00 4.00 10.00	7.00 4.00 10.00	10%		↓
↓	↓	↓	ORP 237.5	237.5	10%		↓

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water in Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
LF08GW02B	1210	52.24	52.24	52.24	52.24		S	G	G	N	Y	N	
LF08GW06	1206	24.73	24.73	24.73	24.73		S	G	G	N	Y	N	
LF08GW04	1216	34.80	34.80	34.80	34.80		S	G	G	N	Y	N	
LF08GW03	1213	40.65	40.65	40.65	40.65		S	G	G	N	Y	N	
NKGW03	1254	14.65	14.65	14.65	14.65		S	G	G	N	Y	N	replaced lock
NKGW02	1250	15.10	15.10	15.10	15.10		F	S	S	N	Y	N	no TABS or bolts
NKGW04	1247	10.65	10.65	10.65	10.65		F	D	D	N	Y	N	no tabs, or bolts,
NKGW05	1225	27.15	27.15	27.15	27.15		F	D	D	N	Y	N	Broken Tabs
NKGW01	1231	39.00	39.00	39.00	39.00		F	S	S	N	Y	N	no bolts, broken tabs
LF5GW101	1339	7.10	7.10	7.10	7.10		F	G	S	Y	Y	N	replaced cap + lock
LF5GW100	1335	9.10	9.10	9.10	9.10		F	G	S	Y	Y	N	
LF5SP100	1341	NOT RUNNING, DRY											
BB3GW100	1326	32.80	32.80	32.80	32.80		S	G	G	N	Y	N	
BB3GW101	1331	DRY	—	—	—	27.95	S	G	G	N	Y	N	
BB3SW100	1319	DRY	—	—	—	4.85	standpipe (2")						
BB3SW101	1320	3.22	3.22	3.22	3.22	3.78	PVC (2")		casing				
BB3SW102	1322	2.73	~~3.72~~	2.73	2.73	4.69	"	"	"				

Date: 12/13/04

Page No.: pg 2 of 3

Consultant: T&R

Field Staff: SUCHEON SUNG

Field Staff Signature: [signature]

17

GROUNDWATER LEVEL MEASUREMENTS LOG

Well Number	Time	Depth to Groundwater (ft.) (two measurements) 1st	2nd	3rd	Average	Depth to Bottom (ft.)	Well Type (Stick up / Flush)	Well Box Condition (Good / Suspect / Damaged)	Annular Seal Condition (Good / Suspect / Damaged)	Standing Water In Box (Yes / No)	Well Cap and Lock (Yes / No)	Vegetation Clearing Performed (Yes / No)	Comments / Action Taken
BB35W103	1324	14.45	14.45	14.45	14.45	17.00	PVC casing.						Taken from ground level
231GW24	1431	4.11	4.11	4.11	4.11		F	G	G	N	Y	N	
231GW17	1441	1.18	1.18	1.18	1.18		F	G	G	N	Y	N	stripped tabs
231GW18	1440	2.27	2.27	2.27	2.27		F	G	G	N	Y	N	
231GW19	1436	4.00	4.00	4.00	4.00		F	S	S	N	Y	N	missing 1 bolt, broken Tab
~~231GW26~~	~~1451~~	~~2.76~~	~~2.76~~	~~2.76~~	~~2.76~~		~~F~~	~~G~~	~~G~~	~~N~~	~~Y~~	~~N~~	
231GW29	1454	2.05	2.05	2.05	2.05		F	G	G	N	Y	N	
231GW11	1458	2.45	2.45	2.45	2.45		F	G	G	N	Y	N	

Date: 12/13/04

Page No.: pg 3 of 3

Consultant: TSP

Field Staff: Sukhan Sung

Field Staff Signature:

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3GW100
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: Sooch Sung
Sampled by: Sooch Sung
Date: 12/14/04

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC):

Depth to Water (WL, ft. below TOC):

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [X] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[X] Normal [X] Pump \ Type pos. air disp.
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

6.3 (Water Column Length) x .9 (Water Volume/ft) x 5.7 (No. Vols) (3) = 19.1 gals

CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate ~1 gpm

18.0 gals

ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: ULTRAMETER, TURBIDIMETER

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1442 / —	7.7	14.7		1377		>1000	initial
1450 / 6	7.4	14.9		1369		>1000	cloudy
1459 / 12	7.5	15.1		1381		415	"
1508 / 18	7.5	15.1	2.2	1376		451	"
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments

Purge water storage/disposal: [ ] Drummed onsite [X] Other poly tank

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 12/14/04 / 1515

Purging Equipment: Pump - Type pos. air disp. Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis: diss. metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3GW100	1x1L poly	CET	1433	
	1x500ml poly (HNO3)			
	1x1L Amber			
	3x40ml VOA			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	BB3GW100RB100@1535
Transfer	
Other:	

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Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Baker Beach
Well No.: BB3GW101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: M. Gillies
Sampled by:
Date: 12/13/04

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 27.95
Depth to Water (WL, ft. below TOC): Dry
Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate
Purge Rate
gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/		Dry	Well -	No Sample			
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /

Purging Equipment: Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: Presidio/Baker Beach
Well No.: ~~BB3SW103~~ BB3PZ101 MK
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: M. Gillies
Sampled by: M. Gillies
Date: 12/16/04

WELL PURGING

PURGE VOLUME

Well casing diameter: [X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 20.20

Depth to Water (WL, ft. below TOC): 18.96

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [X] Not Applicable [ ] Other

Surface Water Sample

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow
[ ] Normal
[ ] Modified (max 5 gpm)
[X] Bailer \ Type: Disp.
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft): N/A
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach, YSI 550A

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
1628	—	6.7	17.3	5.8	1150	—	246	

Comments

Purge water storage/disposal: [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 12/16/04 1630

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW103	3 40ml HCL	C+T		
"	1 L Amber			
"	2-HNO3 500ml			
"	1 NP Poly L			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB3SW100
Project Number: 2093
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: MTOll
Sampled by: M.T.Bll
Date: 12/17/04

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) : Dry
Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [ ] Not Applicable [ ] Other

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD
[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE
[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
/	No water to purge						
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD
Date/Time Sampled /

Purging Equipment Pump - Type Bailer - Type Other

Sample Filtered: Yes / No Filtered Sample Analysis:

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB3SW101
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: M. TOLL
Sampled by: M. TOLL
Date: 12/17/04

WELL PURGING

PURGE VOLUME

Well casing diameter: [✓] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 3.65

Depth to Water (WL, ft. below TOC): 3.24

Depth to free phase (FP, ft. below TOC):

Number of borehole volumes to be purged: [ ] 3 [✓] Not Applicable [ ] Other

Surface Water

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length X Water Volume/ft X No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate Purge Rate gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach

Time	Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (mS/cm)	ORP (mV)	Turbidity (NTU)	Comments
859	—	6.8	10.0	8.0	1239	—	564	
	Well dewatered	during		—		—		
	sampling after	parameters		—		—		
	+ filling 3 VOAs.	Surface				—		
	Water not recharging							

Comments: Purge water storage/disposal: [✓] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 12/17/04 / 900

Purging Equipment: Pump - Type: Bailer - Type: Disp. Other:

Sample Filtered: (Yes) No Filtered Sample Analysis: ~~[illegible]~~

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3SW101	3-ADml	CAT		
	~~1-AMB~~ MW			
	~~2-HNO3~~ MW			
	~~1-NPPOL~~ MW			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell & Rollo
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MONITORING WELL SAMPLING LOG (Normal, Low Flow, and Low Yield)

Site / Area: BAKER BEACH
Well No.: BB3 SW 102
Project Number: 2893
Well Type: [X] Monitor [ ] Extraction [ ] Other
Recorded By: MTBII
Sampled by: MTBII
Date: 12/17/04

WELL PURGING

PURGE VOLUME

Well casing diameter
[✓] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC) :
Depth to Water (WL, ft. below TOC) :
Depth to free phase (FP, ft. below TOC) :

Number of borehole volumes to be purged
[ ] 3 [✓] Not Applicable [ ] Other

Surface Water

Liquid in a 1 Foot Section of a Boring (gallons)		
Borehole Size	Casing Size	Water Volume/Ft
8	2	0.9
10	4	1.68
12	4	2.22

PURGE METHOD

[ ] Low Flow [ ] Bailer \ Type
[ ] Normal [ ] Pump \ Type
[ ] Modified (max 5 gpm) [ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length x Water Volume/ft x No. Vols = gals CALCULATED PURGE VOLUME

Total Purge Time
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type: Ultrameter, Hach

Time / Liters or Gallons	pH	Temp °C °F	DO (mg/L)	Sp. COND (µS/cm)	ORP (mV)	Turbidity (NTU)	Comments
834 / –	6.5	14.1	6.7	999	–	794	
/			–		–		
/			–		–		
/					–		
/					–		
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							
/							

Comments
Purge water storage/disposal [✓] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled: 12/17/04 1835

Purging Equipment: Pump - Type Bailer - Type: Disp. Other

Sample Filtered: (Yes) / No Filtered Sample Analysis: Metals

SAMPLING PROGRAM

Sample No.	Container #/Volume	Laboratory	COC #	Comments
BB3 SW 102	3-40 ml	CHT		
	1-Amb			
	2-HNO3			
	1-NP Poly			

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

APPENDIX K

Slope Stability Evaluation of Final Slope Configurations, Baker Beach Disturbed Area 3

(Treadwell & Rollo, Inc., June 2005)

Treadwell&Rollo

24 June 2005
Project: 2893.12.0011

The Presidio Trust
ATTN: Ms. Jennifer Yata
Building 1750
Post Office Box 29052
San Francisco, CA 94129-0052

Subject: Revised Slope Stability Evaluation of Final Slope Configurations
Baker Beach Disturbed Area 3
Presidio of San Francisco, California

Dear Ms. Yata:

This letter presents the results of our stability evaluation of the final slope configuration following the fill removal activities at Baker Beach Disturbed Area 3 (BBDA 3). We previously performed a slope stability evaluation of the BBDA 3 site that included an evaluation of the pre-construction slope stability as well as the stability of the anticipated post-construction slope configurations. The results of this evaluation were presented in a written report dated 28 May 2004 (Treadwell & Rollo 2004b). As discussed below, the final post-construction slope configurations differed from those previously evaluated. Consequently, the 'post-construction' stability evaluation documented in that report is no longer applicable. The results presented herein should be considered an addendum to our 28 May 2004 report.

Background

BBDA 3 site is located within the Coastal Bluffs area near the western boundary of the Presidio of San Francisco. BBDA 3 was a fill site that was created by the Army while the Presidio was a defense facility by filling a pre-existing ravine. The fill on the western portion of BBDA 3 was impacted by contaminants of concern (COCs) at concentrations exceeding applicable cleanup levels. Subsequently, the Remedial Action Plan (Treadwell & Rollo, 2004a) called for the removal of contaminated debris and soil fill on the western portion of the site. The eastern portion of BBDA 3 did not contain contaminated soil and was, therefore, generally left in place.

The two main objectives of the landfill removal were to remove all contaminated soil and to restore the excavated portion of Baker Beach Disturbed Area 3 (BBDA 3) to the natural dune-bluff topography that existed prior to the placement of waste fill. These objectives are consistent with National Park Service management policies, which require that natural areas be modified as little as possible. Consequently, the post-construction slopes were not reinforced or otherwise modified to improve bluff-wide stability or reduce the effects of earthquake-induced slope stability. Site work after fill removal was limited to controlling excessive erosion by use of straw wattles, silt fences, and sand bags. Therefore, recommendations to improve bluff-wide stability were not part of the scope of this or previous studies.

Treadwell & Rollo, Inc. *Environmental & Geotechnical Consultants*
555 Montgomery Street, Suite 1300, San Francisco, CA 94111
Telephone (415) 955-9040 Facsimile (415) 955-9041

Excavation Activities

The fill removal activities were mostly conducted from June through November of 2004. During this period of time we intermittently visited the site to observe the site conditions. In addition, three survey monitoring points were installed on Lincoln Boulevard to observe any horizontal or vertical movements that could be associated with the construction activities. On the basis of the survey results from Chaudhary & Associates, Inc., the monitoring points appeared to be relatively stable throughout construction (see Table 1).

The depth and extent of fill removal was based on the environmental analytical results from soil samples collected in the field. Initial estimates of contaminated fill indicated that approximately 15,000 to 30,000 cubic yards (cy) of fill would need to be removed, ranging in thickness from about 1 to 30 feet. During construction the fill was deeper than expected, and some of the underlying native Dune Sand was also found to be contaminated and, consequently, removed. By the end of construction, about 37,800 cy of fill and contaminated native soil were removed, ranging in thickness from about one to 36 feet. The final excavation resulted in steep slopes that are closer to the post-construction alignment of Battery Crosby Road than previously anticipated.

To date, all of the required debris fill and contaminated native material have been removed from the site. We understand the remaining site activities include the re-construction of Battery Crosby Road; repairing of erosion control elements; and limited slope grading. The re-construction of Battery Crosby Road may include placing a significant volume of imported fill material on or adjacent to the current Battery Crosby Road alignment (the post-construction alignment). In the event significant fill is placed, we should evaluate the impact of this filling on the stability of the site slopes.

Final Site Configurations

The western portion of BBDA 3 now forms a moderately steep, flat-bottomed, V-shaped ravine, trending towards the west, as shown on the Topographic Map (Figure 1). In general the BBDA 3 site slopes are blanketed by native Dune Sand with the exception of the ravine floor in the western portion of the site, where localized areas of Colma Formation clay are exposed.

The post-remediation alignment of Battery Crosby Road is approximately 12 feet wide and runs parallel with the toe of the eastern fill slope. It should be noted that the eastern slope was not disturbed during the fill removal activities. As shown on Figure 1, Zone 1 of the current Battery Crosby Road alignment runs at the head of the newly graded slope. This slope is slightly terraced and is relatively steep, with inclinations of about 1.4:1 (horizontal:vertical) to about 1.7:1 for a horizontal distance of about 30 feet from Battery Crosby Road.

During our initial investigation, several seasonal groundwater seeps were observed at the contact between the Colma Formation and the overlying Dune Sand (Treadwell & Rollo, Inc. 2004b,)

indicative of a shallow groundwater perched above the Colma Formation. The site grading removed much of the overlying Dune Sand in the middle of the ravine and, subsequently, these seeps are now exiting the graded (post-construction) slope near the middle of the site (at a distance of about 470 feet from Lincoln Boulevard). The flow rate from these seeps varies considerably and appears to be dependent on the amount of rainfall. The recent heavy rains have been causing erosion of Dune Sand near the seep locations.

Stability Evaluation and Conclusions

We performed periodic evaluations of the temporary slopes throughout construction to verify that the site slopes were globally stable under short-term conditions. As anticipated, raveling and gullying of the steeper Dune Sand slopes occurred throughout construction. Upon completion of mass grading, we performed additional analyses to evaluate the long-term stability of the final site slopes. The results of these analyses are included herein.

In our analyses we used the final post-construction ground surface (topographic map by RW Davis & Associates) and groundwater levels consistent with conditions observed in the field. We used slope stability methodologies and material properties used in our original evaluation, (see Section 8.0 of our May 2004 report) and we used the computer program Slope /w (version 4.23) by Geoslope International (1999) for our analyses. Factors of safety were computed using various limit equilibrium methods, including Modified Bishop, Janbu, and Spencer's Methods. The computer program internally searched for the most critical failure surface, i.e. with the lowest factor of safety. Typically, a slope with a static factor of safety greater than 1.5 and a seismic factor of safety of 1.1 with a seismic coefficient of 0.1 to 0.15 is considered stable (CDMG, 1997).

The results of the analyses indicate that the current ("final") slope configurations will continue to be prone to shallow raveling-type erosional failures (factors of safety ≤ 1.0). These types of failures will likely continue on the steep side slopes (north and south) of the ravine. Furthermore, the steep slopes at the western boundary of BBDA 3 will continue to be marginally stable (Factor of Safety about 1.3). These are consistent with our findings presented in our 2004 slope stability report.

We also evaluated the stability of the final slopes for global deep-seated failures. We computed factors of safety between 1.7 and 2.2 and, hence, conclude that the final slopes are stable under static conditions against global deep-seated failures.

The one area showing a significant difference from our original study is the steepened slopes immediately downslope of the newly constructed Battery Crosby Road. The post-grading slope is steep and is prone to shallow raveling-type failures over the long term (factor of safety ≤ 1.0), particularly if exposed to surface water.

The potential for liquefaction, lateral spreading, and differential settlement were previously discussed in Section 7.3 of our May 2004 report. The final slope configurations do not eliminate issues associated with liquefaction-induced slope instability. Accordingly, liquefaction and lateral spreading are likely to occur during a major earthquake, resulting in large downslope displacements that could negatively impact the site as well as portions of Lincoln Boulevard and Ocean Beach.

Discussion

Consistent with the results of our analyses and recent observations, the steep Dune Sand slopes across the site are susceptible to raveling, erosion, and gullying in wet and rainy weather conditions. Dune Sand slopes steeper than about 2:1 are not generally stable in the long term. For the most part, sloughing and erosion of surface sands will not affect improvements around the site. However, if the steep Dune Sand slopes adjacent to Battery Crosby Road erode or ravel, portions of the newly graded Battery Crosby roadway will likely be impacted. The shallow type slope erosion and instabilities can be addressed in terms of a long-term maintenance of the slope and/or Battery Crosby Road. Permanent solutions to the on-going erosional and instability issues could include placing an engineered buttress fill that would flatten the slopes, prevent surface water from sheeting over the slope, and create a setback between the roadway and the top of the slope.

However, we understand the exposed 'natural' conditions are favored by both the Presidio Trust and the National Park Service. We further understand the Trust is not planning on performing additional work to address the above discussed raveling and/or stability issues of the site, except for short term erosion control. In the event the Trust chooses to perform remedial work to address these issues, we would be pleased to provide detailed recommendations as requested.

The conclusions presented herein are based on our observations of surface conditions at the end of mass grading, the subsurface information gathered during our field investigation, and our experience with similar sites within The Presidio of San Francisco. Please feel free to contact us with any questions.

Sincerely yours,
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REFERENCES

Treadwell & Rollo, Inc. 2004a. *Remedial Action Plan for Fill Site 6A and Baker Beach disturbed Areas 3 and 4.* May.

Treadwell & Rollo, Inc. 2004b. *Slope Stability Evaluation Report for Baker Beach Disturbed Area 3.* May.

CDMG, 1997. *Guidelines for Evaluating and Mitigating Seismic Hazards in California.* Special Publication 117.

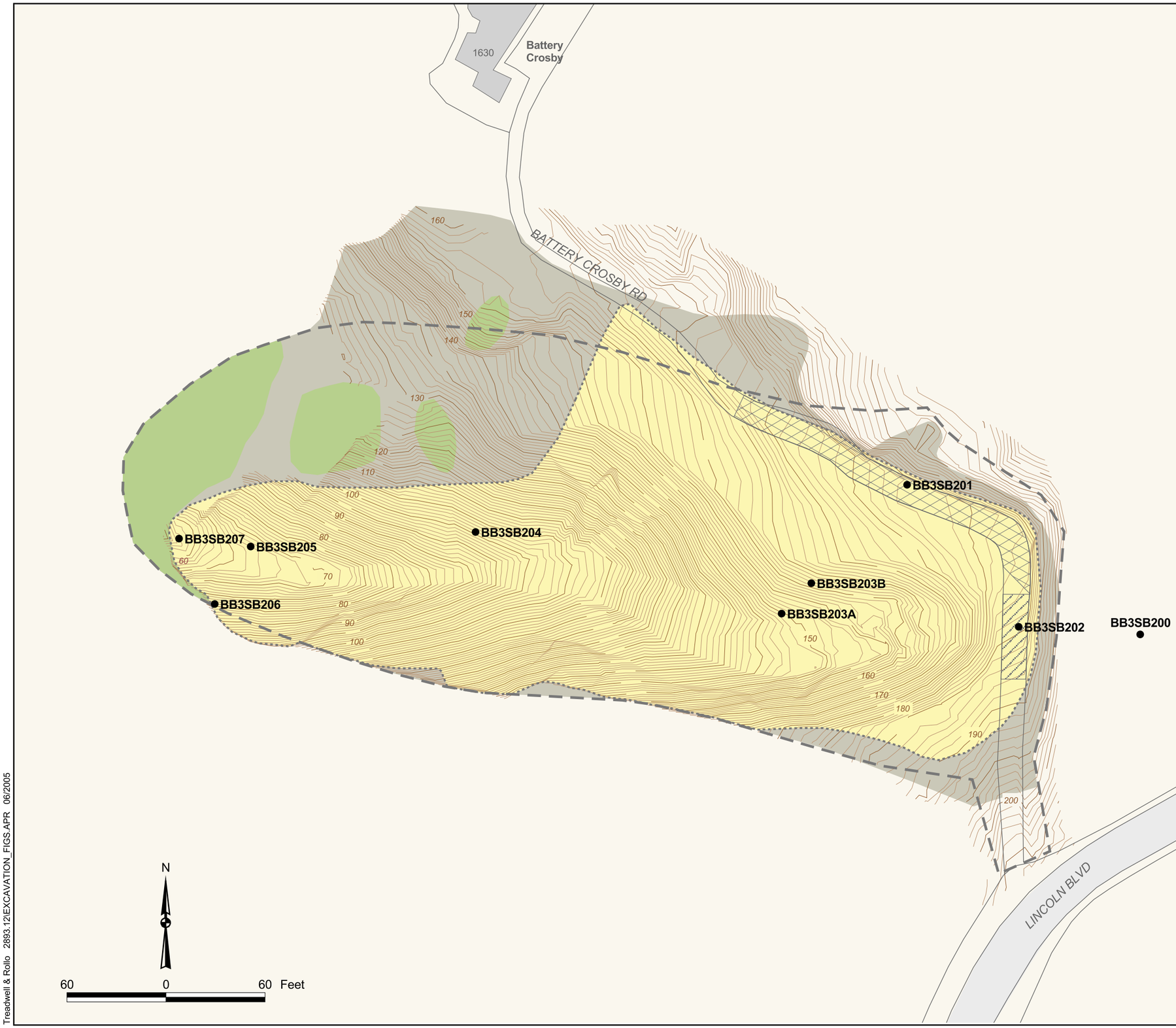
R.W. Davis & Associates (2004), *Post-Excavation topography.* December.

Table 1
Monitoring Survey Data on Lincoln Boulevard
Baker Beach Disturbed Area 3
Presidio of San Francisco

Date of Survey	Northing	Easting	Elevation (feet)	Accumulative Movement North (feet)	Accumulative Movement East (feet)	Accumulative Movement Vertical (feet)	Accumulative Horizontal Movement (feet)
POINT #10 BB3GT2							
6/16/2004	478353.013	1428602.273	220.900	baseline	baseline	baseline	baseline
6/30/2004	478353.005	1428602.286	220.894	-0.008	0.013	-0.006	0.015
7/16/2004	478353.002	1428602.261	220.892	-0.011	-0.012	-0.008	0.016
7/30/2004	478353.013	1428602.247	220.894	0.000	-0.026	-0.006	0.026
8/16/2004	478352.989	1428602.257	220.888	-0.024	-0.016	-0.012	0.029
8/31/2004	478353.006	1428602.282	220.894	-0.007	0.009	-0.006	0.011
9/15/2004	478353.019	1428602.269	220.894	0.006	-0.004	-0.006	0.007
10/19/2004	478353.036	1428602.284	220.880	0.023	0.011	-0.020	0.025
12/23/2004	478353.000	1428602.263	220.895	-0.013	-0.010	-0.005	0.016
POINT #11 BB3GT1							
6/16/2004	478410.103	1428638.415	225.872	baseline	baseline	baseline	baseline
6/30/2004	478410.073	1428638.431	225.866	-0.030	0.016	-0.006	0.015
7/16/2004	478410.081	1428638.429	225.865	-0.022	0.014	-0.007	0.016
7/30/2004	478410.087	1428638.397	225.869	-0.016	-0.018	-0.003	0.026
8/16/2004	478410.075	1428638.415	225.859	-0.028	0.000	-0.013	0.029
8/31/2004	478410.088	1428638.441	225.865	-0.015	0.026	-0.007	0.011
9/15/2004	478410.096	1428638.424	225.865	-0.007	0.009	-0.007	0.007
10/19/2004	478410.093	1428638.431	225.857	-0.010	0.016	-0.015	0.025
12/23/2004	478410.079	1428638.407	225.870	-0.024	-0.008	-0.002	0.016
POINT #12 BB3GT3							
6/16/2004	478463.082	1428641.119	231.011	baseline	baseline	baseline	baseline
6/30/2004	478463.095	1428641.129	231.005	0.013	0.010	-0.006	0.016
7/16/2004	478463.093	1428641.125	231.004	0.011	0.006	-0.007	0.013
7/30/2004	478463.097	1428641.100	231.008	0.015	-0.019	-0.003	0.024
8/16/2004	478463.098	1428641.121	231.002	0.016	0.002	-0.009	0.016
8/31/2004	478463.088	1428641.138	231.005	0.006	0.019	-0.006	0.020
9/15/2004	478463.092	1428641.140	231.009	0.010	0.021	-0.002	0.023
10/19/2004	478463.104	1428641.132	230.998	0.022	0.013	-0.013	0.026
12/23/2004	478463.086	1428641.106	231.000	0.004	-0.013	-0.011	0.014

Sign Convention: Movement North +
Movement East +
Increase in Elevation +

Note: Movement of 0.01 feet or less is considered insignificant in terms of being able to measure.



LEGEND

- ● BB3SB201 Soil Boring
- Limits of Excavation
- Estimated Limits of Fill (RAP)
- Topographic Contour Post-Excavation (Contour Interval : 5 ft) (Contour Interval : 1 ft)
- Section of removed Historical Battery Crosby Road
- Zone 1 of the current Battery Crosby Roadway
- Limits of Excavated Fill
- Approximate limits of remaining native vegetation; delineated in field by NPS representative.
- Approximate limits of stripped vegetation
- 1630 Building and Number

Notes:
Post-excavation topography surveyed by R.W. Davis & Associates on December 2, 2004.

Base map was provided by the Presidio Trust in June 2003.

Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet.
Vertical Datum: (topography) National Geodetic Vertical Datum, NGVD 29.

BAKER BEACH DISTURBED AREA 3 SITE PLAN

Treadwell&Rollo

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FIGURE 1

Treadwell & Rollo 2893.12\EXCAVATION_FIGS.APR 06/2005